

Initial Calibration Report for SequenceID : FE042123AL

AreaCount

Parameter Range	FE041456.D	FE041457.D	FE041458.D	FE041459.D	FE041460.D	
Aliphatic C9-C12	42177594.000	21800625.000	8883436.000	4638016.000	2396668.000	
Aliphatic C12-C16	29315831.000	15132649.000	6171861.000	3215801.000	1657279.000	
Aliphatic C16-C21	45386948.000	23475266.000	9569583.000	5006491.000	2590692.000	
Aliphatic C21-C28	59453819.000	30813645.000	12470431.000	6540310.000	3371167.000	
Aliphatic C28-C40	77313347.000	40794315.000	16431276.000	8726840.000	4449520.000	
Aliphatic EPH	253647539.000	132016500.000	53526587.000	28127458.000	14465326.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	149673.029333	5.069				
Aliphatic C12-C16	155744.024	4.877				
Aliphatic C16-C21	161376.0966664	5.257				
Aliphatic C21-C28	158129.852	4.993				
Aliphatic C28-C40	139105.7189998	5.622				
Aliphatic EPH	150654.9526662	5.22				

Concentration

Parameter Range	FE041456.D	FE041457.D	FE041458.D	FE041459.D	FE041460.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	FE041456.D	FE041457.D	FE041458.D	FE041459.D	FE041460.D	
Aliphatic C9-C12	140591.980000	145337.500000	148057.266666	154600.533333	159777.866666	
Aliphatic C12-C16	146579.155000	151326.490000	154296.525000	160790.050000	165727.900000	
Aliphatic C16-C21	151289.826666	156501.773333	159493.050000	166883.033333	172712.800000	
Aliphatic C21-C28	148634.547500	154068.225000	155880.387500	163507.750000	168558.350000	
Aliphatic C28-C40	128855.578333	135981.050000	136927.300000	145447.333333	148317.333333	



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

Initial Calibration Report for SequenceID : FE042123AL

Aliphatic EPH	140915.299444	146685.000000	148684.963888	156263.655555	160725.844444	
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Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042123AL\
 Data File : FE041456.D
 Signal(s) : FID1B.ch
 Acq On : 20 Apr 2023 17:54
 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: Apr 21 04:25:17 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 042123.M
 Quant Title : GC Extractables
 QLast Update : Fri Apr 21 04:18:48 2023
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.983	17522222	97.221 ug/ml
Spiked Amount 50.000		Recovery =	194.44%
12) S 1-chlorooctadecane (S...	13.416	13294179	97.591 ug/ml
Spiked Amount 50.000		Recovery =	195.18%
Target Compounds			
1) T n-Nonane (C9)	3.359	13796162	97.410 ug/ml
2) T n-Decane (C10)	4.610	14086350	97.418 ug/ml
3) T A~Naphthalene (C11.7)	6.314	15539600	97.399 ug/ml
4) T n-Dodecane (C12)	6.780	14295082	97.413 ug/ml
5) T A~2-methylnaphthalene...	7.412	15159473	97.418 ug/ml
6) T n-Tetradecane (C14)	8.609	14335388	97.532 ug/ml
7) T n-Hexadecane (C16)	10.218	14980443	97.342 ug/ml
8) T n-Octadecane (C18)	11.663	15373605	97.334 ug/ml
10) T n-Eicosane (C20)	12.972	15064070	97.343 ug/ml
11) T n-Heneicosane (C21)	13.584	14949273	97.406 ug/ml
13) T n-Docosane (C22)	14.171	14993780	97.558 ug/ml
14) T n-Tetracosane (C24)	15.274	15101151	97.476 ug/ml
15) T n-Hexacosane (C26)	16.295	14892058	97.748 ug/ml
16) T n-Octacosane (C28)	17.244	14466830	97.705 ug/ml
17) T n-Tricontane (C30)	18.131	14315563	97.789 ug/ml
18) T n-Dotriacontane (C32)	18.962	13774797	96.583 ug/ml
19) T n-Tetratriacontane (C34)	19.744	13129479	97.048 ug/ml
20) T n-Hexatriacontane (C36)	20.483	12430765	97.026 ug/ml
21) T n-Octatriacontane (C38)	21.234	12004166	96.435 ug/ml
22) T n-Tetracontane (C40)	22.172	11658577	96.792 ug/ml

(f)=RT Delta > 1/2 Window

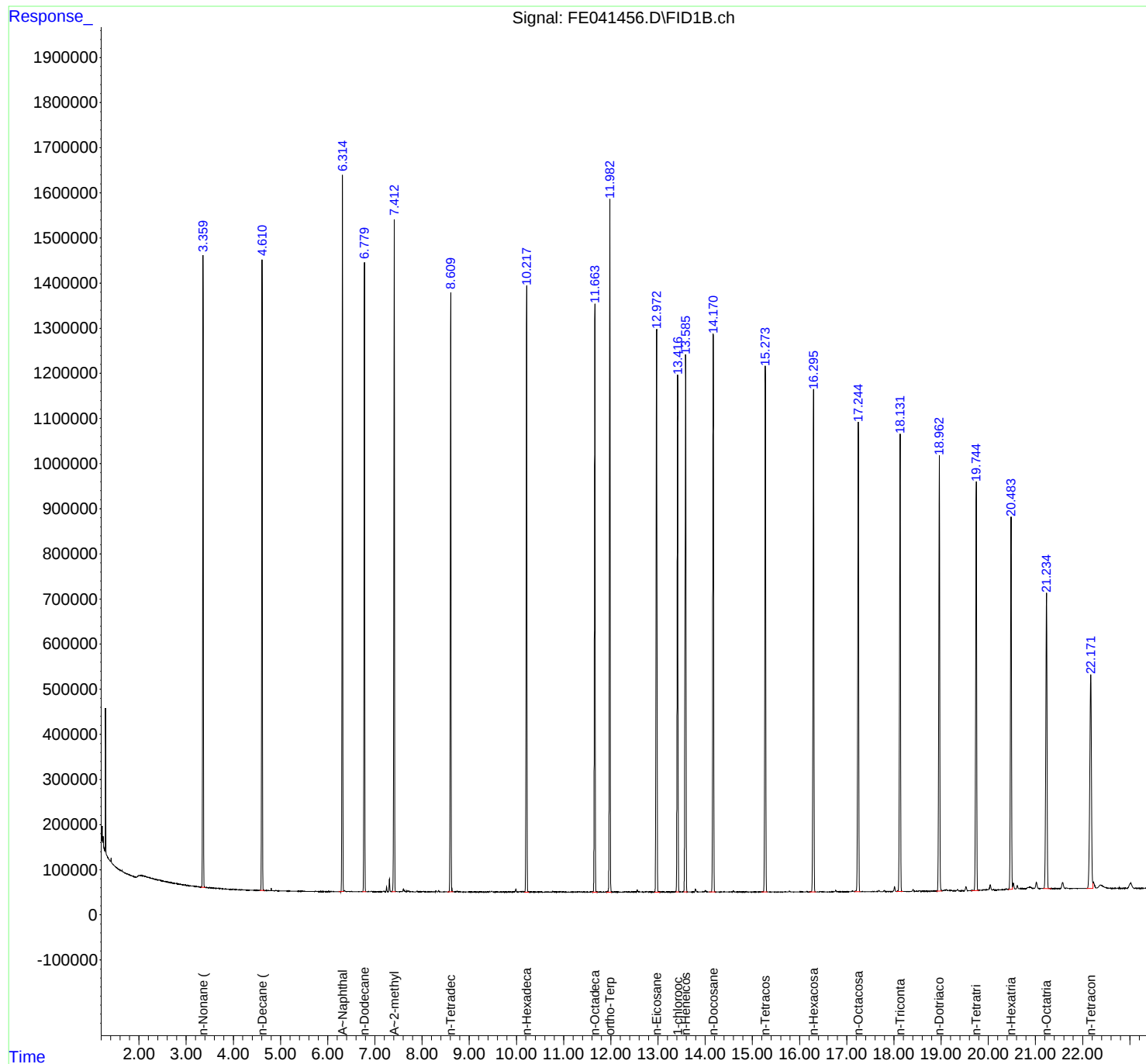
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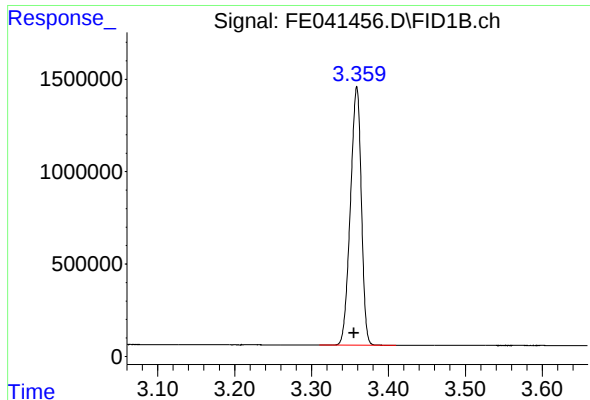
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Data File : FE041456.D
Signal(s) : FID1B.ch
Acq On : 20 Apr 2023 17:54
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Apr 21 04:25:17 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 042123.M
Quant Title : GC Extractables
QLast Update : Fri Apr 21 04:18:48 2023
Response via : Initial Calibration
Integrator: ChemStation

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

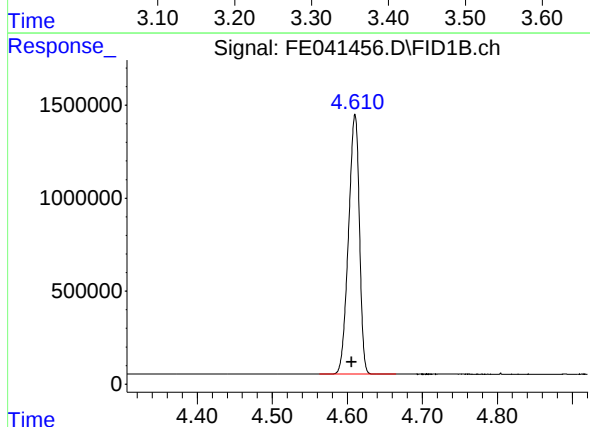




#1 n-Nonane (C9)

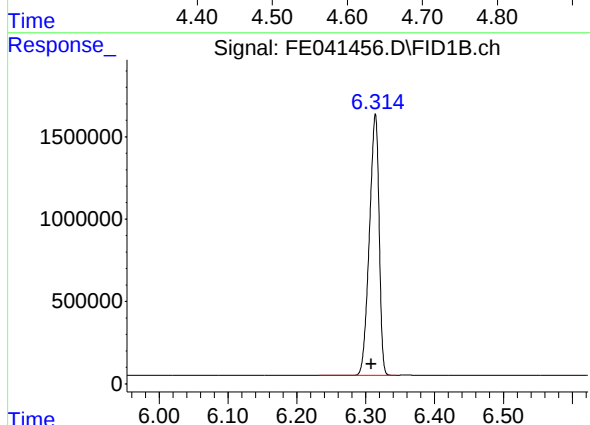
R.T.: 3.359 min
Delta R.T.: 0.004 min
Response: 13796162
Conc: 97.41 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



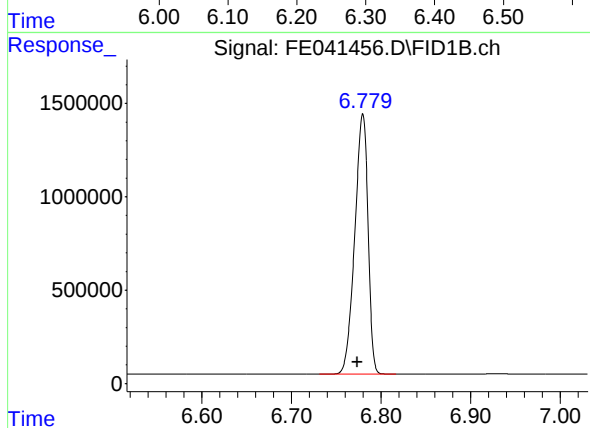
#2 n-Decane (C10)

R.T.: 4.610 min
Delta R.T.: 0.005 min
Response: 14086350
Conc: 97.42 ug/ml



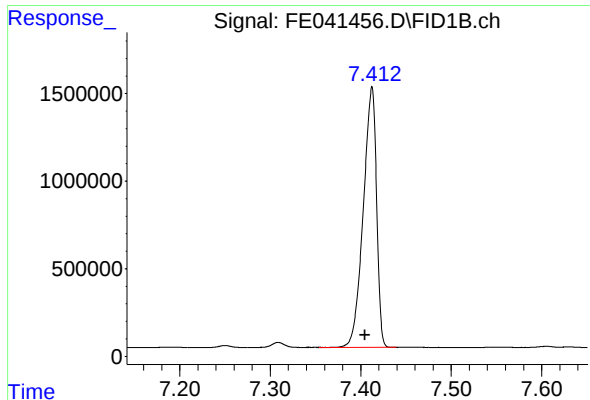
#3 A~Naphthalene (C11.7)

R.T.: 6.314 min
Delta R.T.: 0.006 min
Response: 15539600
Conc: 97.40 ug/ml



#4 n-Dodecane (C12)

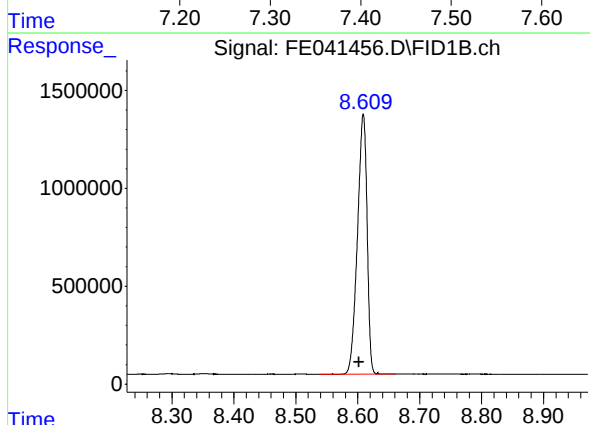
R.T.: 6.780 min
Delta R.T.: 0.006 min
Response: 14295082
Conc: 97.41 ug/ml



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

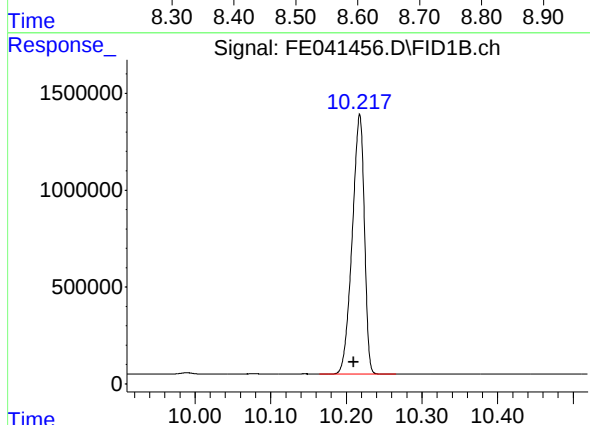
R.T.: 7.412 min
Delta R.T.: 0.008 min
Response: 15159473
Conc: 97.42 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



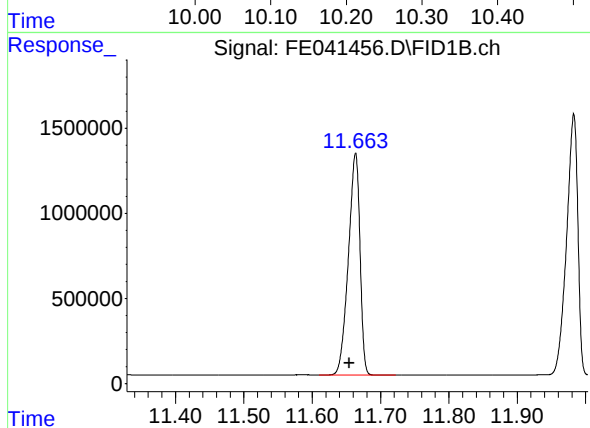
#6 n-Tetradecane (C14)

R.T.: 8.609 min
Delta R.T.: 0.007 min
Response: 14335388
Conc: 97.53 ug/ml



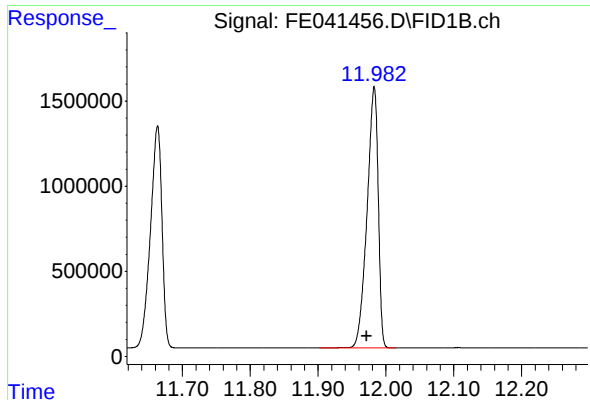
#7 n-Hexadecane (C16)

R.T.: 10.218 min
Delta R.T.: 0.008 min
Response: 14980443
Conc: 97.34 ug/ml



#8 n-Octadecane (C18)

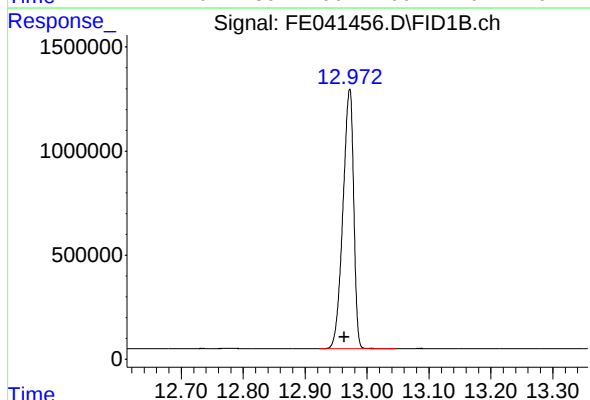
R.T.: 11.663 min
Delta R.T.: 0.010 min
Response: 15373605
Conc: 97.33 ug/ml



#9 ortho-Terphenyl (SURR)

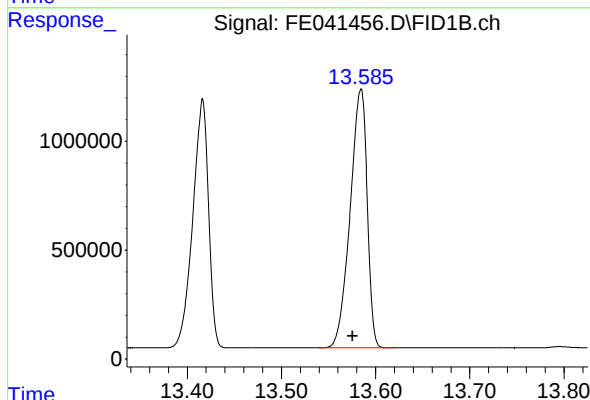
R.T.: 11.983 min
Delta R.T.: 0.011 min
Response: 17522222
Conc: 97.22 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



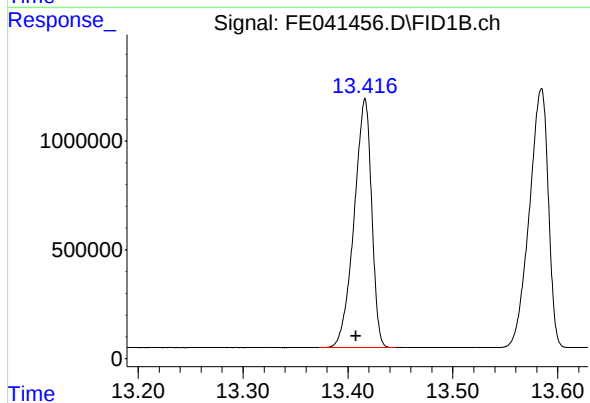
#10 n-Eicosane (C20)

R.T.: 12.972 min
Delta R.T.: 0.008 min
Response: 15064070
Conc: 97.34 ug/ml



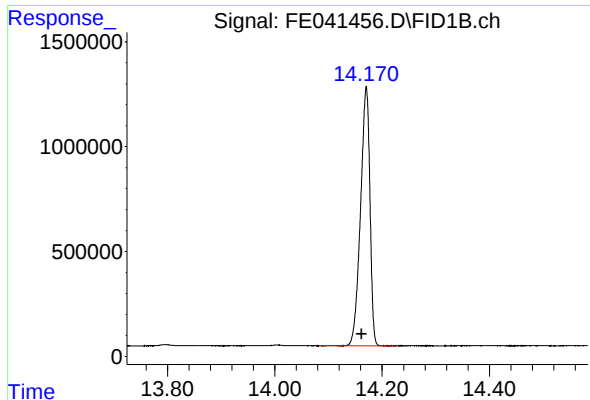
#11 n-Heneicosane (C21)

R.T.: 13.584 min
Delta R.T.: 0.009 min
Response: 14949273
Conc: 97.41 ug/ml



#12 1-chlorooctadecane (SURR)

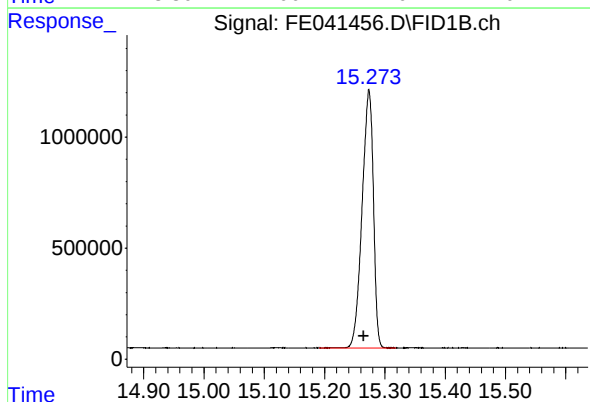
R.T.: 13.416 min
Delta R.T.: 0.009 min
Response: 13294179
Conc: 97.59 ug/ml



#13 n-Docosane (C22)

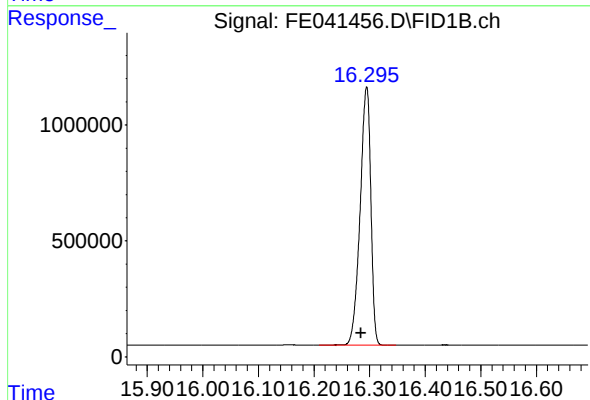
R.T.: 14.171 min
Delta R.T.: 0.009 min
Response: 14993780
Conc: 97.56 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



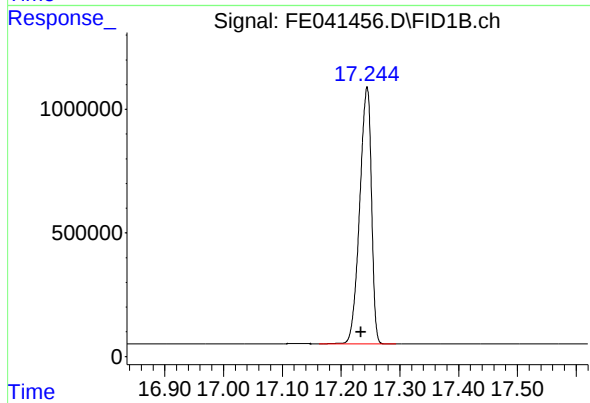
#14 n-Tetracosane (C24)

R.T.: 15.274 min
Delta R.T.: 0.009 min
Response: 15101151
Conc: 97.48 ug/ml



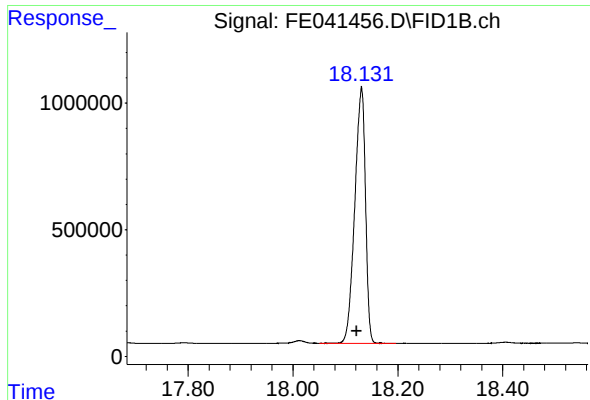
#15 n-Hexacosane (C26)

R.T.: 16.295 min
Delta R.T.: 0.010 min
Response: 14892058
Conc: 97.75 ug/ml



#16 n-Octacosane (C28)

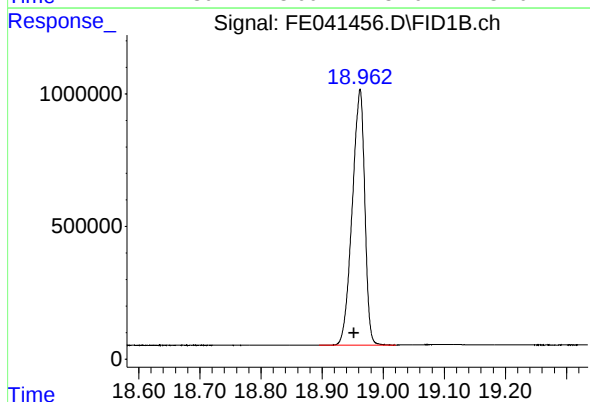
R.T.: 17.244 min
Delta R.T.: 0.010 min
Response: 14466830
Conc: 97.70 ug/ml



#17 n-Tricontane (C30)

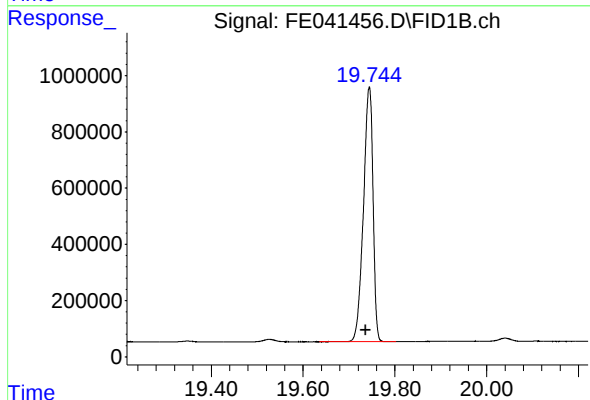
R.T.: 18.131 min
Delta R.T.: 0.009 min
Response: 14315563
Conc: 97.79 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



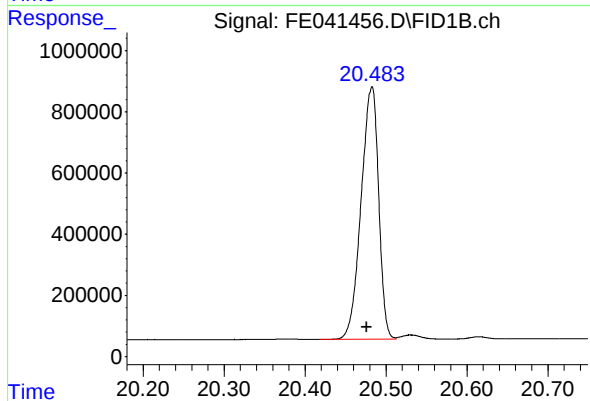
#18 n-Dotriacontane (C32)

R.T.: 18.962 min
Delta R.T.: 0.010 min
Response: 13774797
Conc: 96.58 ug/ml



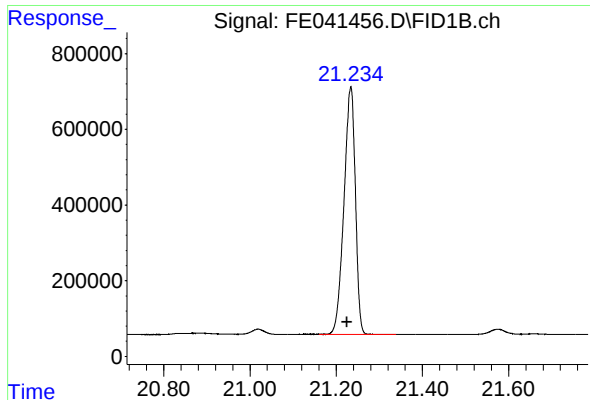
#19 n-Tetratriacontane (C34)

R.T.: 19.744 min
Delta R.T.: 0.008 min
Response: 13129479
Conc: 97.05 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.483 min
Delta R.T.: 0.007 min
Response: 12430765
Conc: 97.03 ug/ml



#21 n-Octatriacontane (C38)

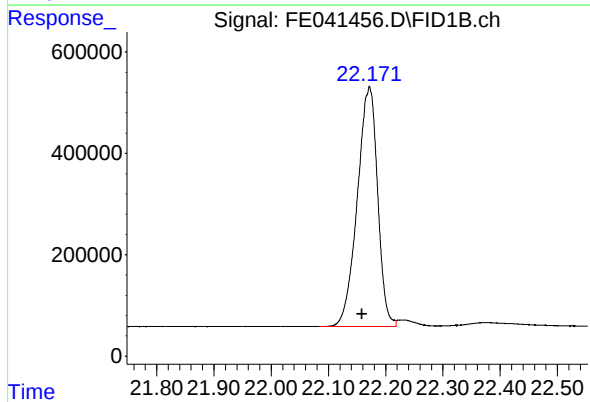
R.T.: 21.234 min
Delta R.T.: 0.009 min
Response: 12004166
Conc: 96.44 ug/ml

Instrument :

FID_E

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.172 min
Delta R.T.: 0.013 min
Response: 11658577
Conc: 96.79 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042123AL\
Data File : FE041456.D
Signal(s) : FID1B.ch
Acq On : 20 Apr 2023 17:54
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 042123.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	3.359	3.310	3.410	BB	1400041	13796162	78.74%	4.377%
2	4.610	4.562	4.665	BB	1397278	14086350	80.39%	4.470%
3	6.314	6.232	6.344	BV	1587250	15539600	88.69%	4.931%
4	6.780	6.731	6.817	BB	1395132	14295082	81.58%	4.536%
5	7.412	7.354	7.439	BV	1488322	15159473	86.52%	4.810%
6	8.609	8.537	8.662	BB	1327572	14335388	81.81%	4.549%
7	10.218	10.164	10.266	PB	1343125	14980443	85.49%	4.753%
8	11.663	11.610	11.722	VB	1302677	15373605	87.74%	4.878%
9	11.983	11.902	12.015	BB	1534969	17522222	100.00%	5.560%
10	12.972	12.922	13.047	BB	1248368	15064070	85.97%	4.780%
11	13.416	13.372	13.446	VV	1146454	13294179	75.87%	4.218%
12	13.584	13.540	13.622	VB	1189433	14949273	85.32%	4.743%
13	14.171	14.082	14.226	BB	1236245	14993780	85.57%	4.757%
14	15.274	15.191	15.318	BB	1161910	15101151	86.18%	4.792%
15	16.295	16.209	16.347	BB	1113970	14892058	84.99%	4.725%
16	17.244	17.162	17.293	VV	1039789	14466830	82.56%	4.590%
17	18.131	18.050	18.197	VB	1013399	14315563	81.70%	4.542%
18	18.962	18.895	19.021	BV	965007	13774797	78.61%	4.371%
19	19.744	19.635	19.802	BB	904258	13129479	74.93%	4.166%
20	20.483	20.417	20.512	BV	825250	12430765	70.94%	3.944%
21	21.234	21.160	21.339	BV	654000	12004166	68.51%	3.809%
22	22.172	22.084	22.218	BV	473830	11658577	66.54%	3.699%
Sum of corrected areas:						315163012		

Aliphatic EPH 042123.M Fri Apr 21 05:12:40 2023

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042123AL\
 Data File : FE041457.D
 Signal(s) : FID1B.ch
 Acq On : 20 Apr 2023 18:24
 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: Apr 21 04:28:16 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 042123.M
 Quant Title : GC Extractables
 QLast Update : Fri Apr 21 04:18:48 2023
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.977	9065534	50.199 ug/ml
Spiked Amount 50.000		Recovery =	100.40%
12) S 1-chlorooctadecane (S...	13.411	6873187	50.303 ug/ml
Spiked Amount 50.000		Recovery =	100.61%
Target Compounds			
1) T n-Nonane (C9)	3.357	7138139	50.266 ug/ml
2) T n-Decane (C10)	4.608	7280691	50.234 ug/ml
3) T A~Naphthalene (C11.7)	6.310	8028256	50.212 ug/ml
4) T n-Dodecane (C12)	6.776	7381795	50.202 ug/ml
5) T A~2-methylnaphthalene...	7.407	7824284	50.187 ug/ml
6) T n-Tetradecane (C14)	8.606	7394057	50.204 ug/ml
7) T n-Hexadecane (C16)	10.214	7738592	50.190 ug/ml
8) T n-Octadecane (C18)	11.658	7950942	50.226 ug/ml
10) T n-Eicosane (C20)	12.967	7791056	50.230 ug/ml
11) T n-Heneicosane (C21)	13.579	7733268	50.258 ug/ml
13) T n-Docosane (C22)	14.165	7754817	50.304 ug/ml
14) T n-Tetracosane (C24)	15.268	7829468	50.358 ug/ml
15) T n-Hexacosane (C26)	16.289	7717335	50.435 ug/ml
16) T n-Octacosane (C28)	17.238	7512025	50.487 ug/ml
17) T n-Tricontane (C30)	18.126	7456712	50.620 ug/ml
18) T n-Dotriacontane (C32)	18.957	7352234	51.023 ug/ml
19) T n-Tetratriacontane (C34)	19.738	6896010	50.644 ug/ml
20) T n-Hexatriacontane (C36)	20.477	6556220	50.776 ug/ml
21) T n-Octatriacontane (C38)	21.227	6337565	50.605 ug/ml
22) T n-Tetracontane (C40)	22.162	6195574	50.949 ug/ml

(f)=RT Delta > 1/2 Window

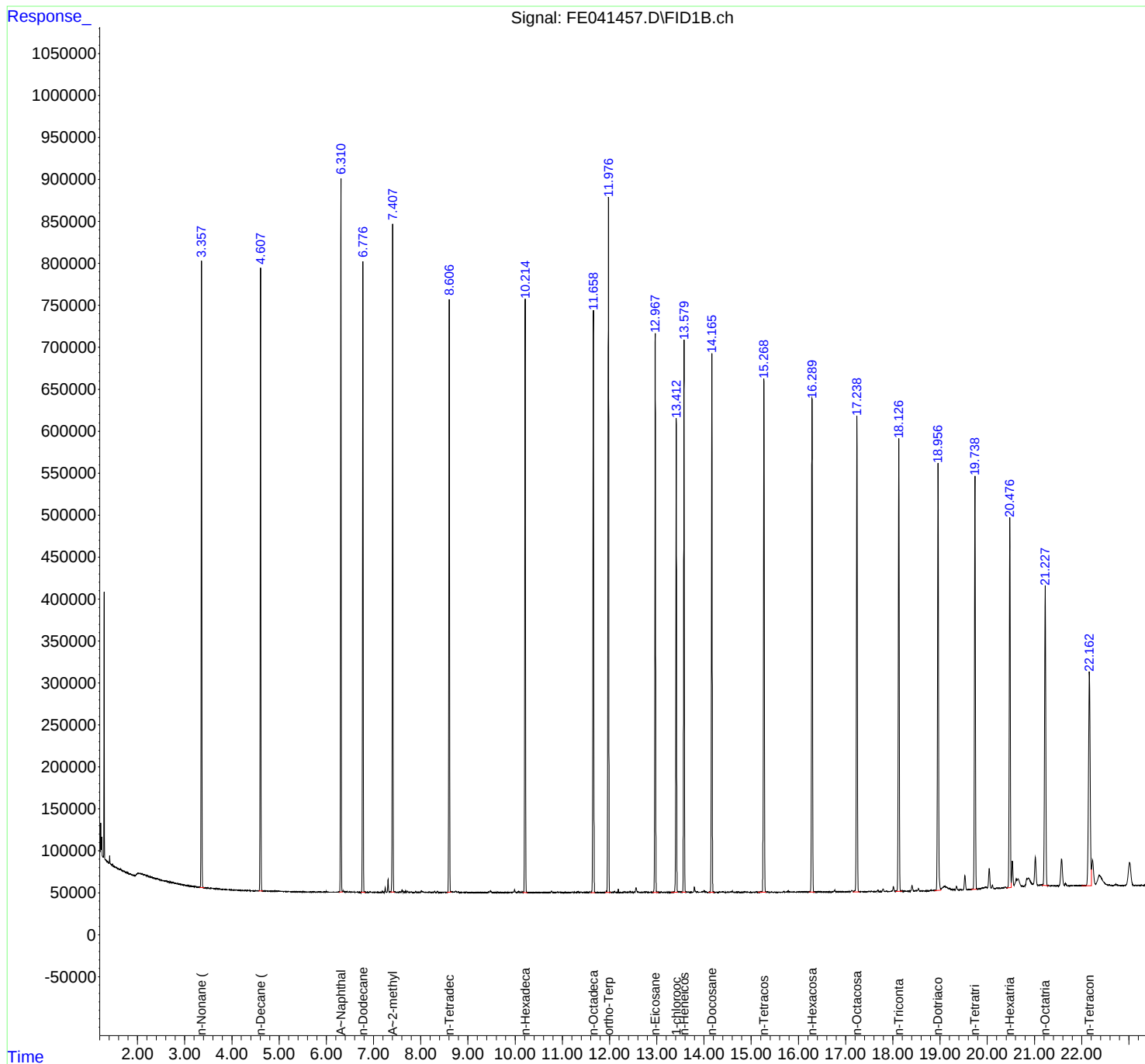
(m)=manual int.

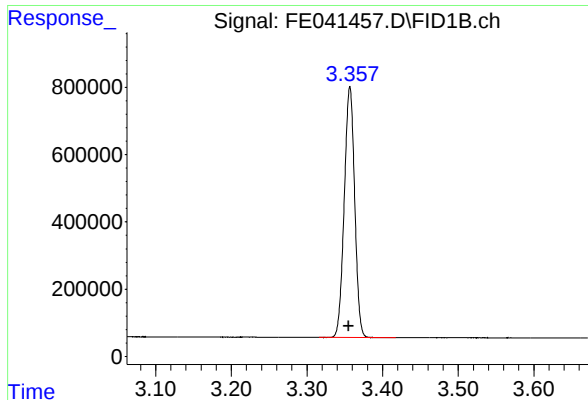
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042123AL\
Data File : FE041457.D
Signal(s) : FID1B.ch
Acq On : 20 Apr 2023 18:24
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Apr 21 04:28:16 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 042123.M
Quant Title : GC Extractables
QLast Update : Fri Apr 21 04:18:48 2023
Response via : Initial Calibration
Integrator: ChemStation

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

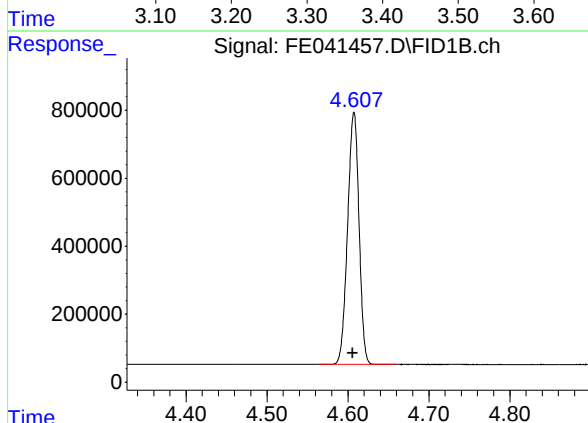




#1 n-Nonane (C9)

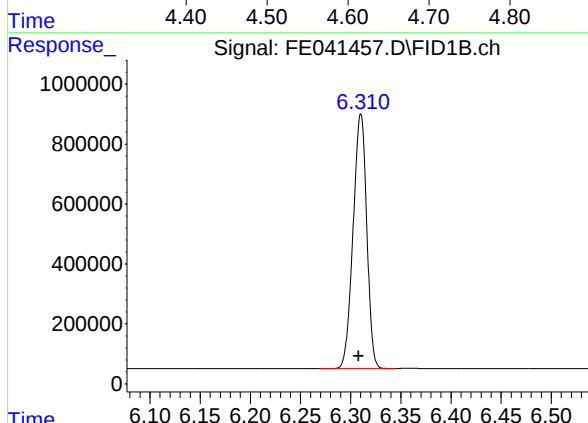
R.T.: 3.357 min
Delta R.T.: 0.002 min
Response: 7138139
Conc: 50.27 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



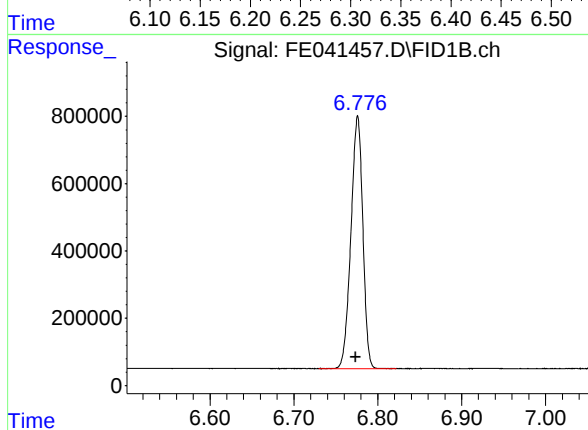
#2 n-Decane (C10)

R.T.: 4.608 min
Delta R.T.: 0.002 min
Response: 7280691
Conc: 50.23 ug/ml



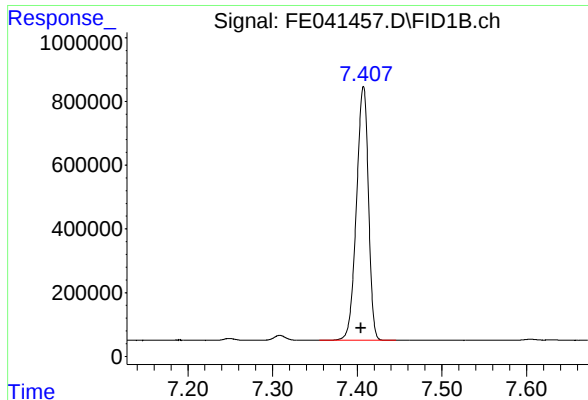
#3 A~Naphthalene (C11.7)

R.T.: 6.310 min
Delta R.T.: 0.002 min
Response: 8028256
Conc: 50.21 ug/ml



#4 n-Dodecane (C12)

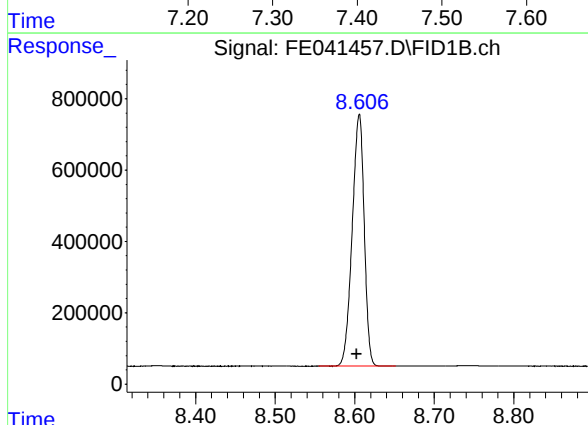
R.T.: 6.776 min
Delta R.T.: 0.003 min
Response: 7381795
Conc: 50.20 ug/ml



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

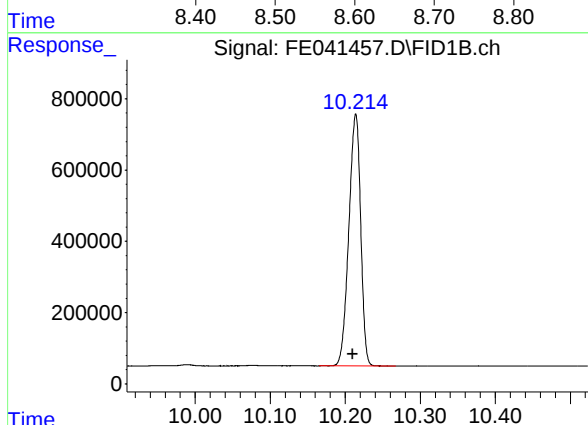
R.T.: 7.407 min
Delta R.T.: 0.003 min
Response: 7824284
Conc: 50.19 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



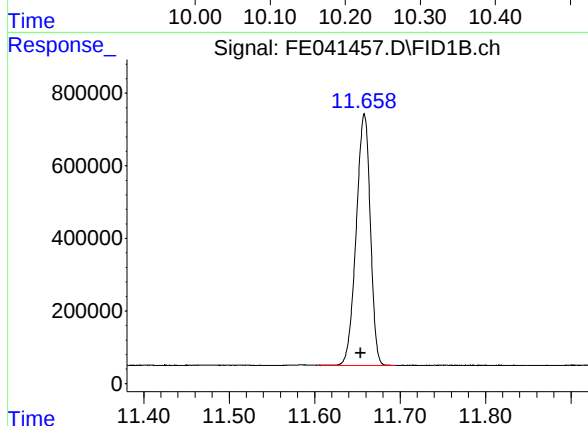
#6 n-Tetradecane (C14)

R.T.: 8.606 min
Delta R.T.: 0.004 min
Response: 7394057
Conc: 50.20 ug/ml



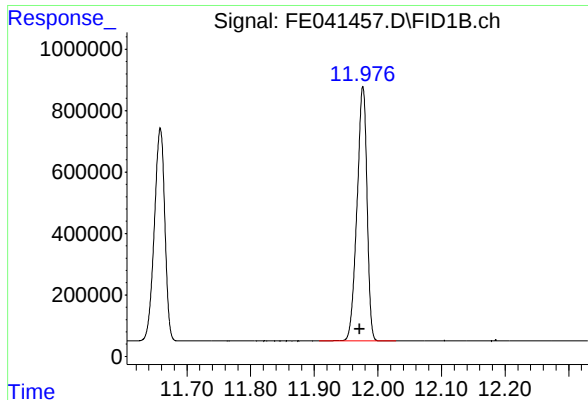
#7 n-Hexadecane (C16)

R.T.: 10.214 min
Delta R.T.: 0.004 min
Response: 7738592
Conc: 50.19 ug/ml



#8 n-Octadecane (C18)

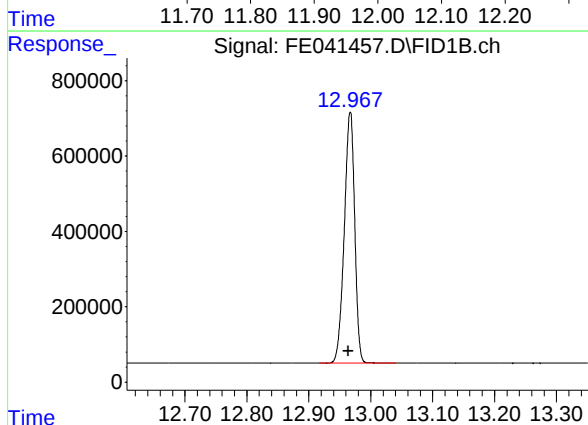
R.T.: 11.658 min
Delta R.T.: 0.004 min
Response: 7950942
Conc: 50.23 ug/ml



#9 ortho-Terphenyl (SURR)

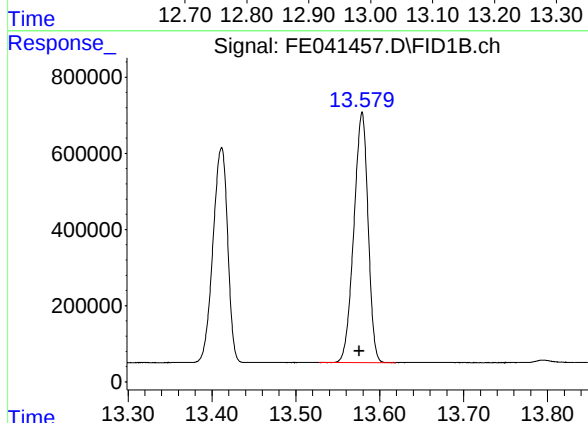
R.T.: 11.977 min
Delta R.T.: 0.005 min
Response: 9065534
Conc: 50.20 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



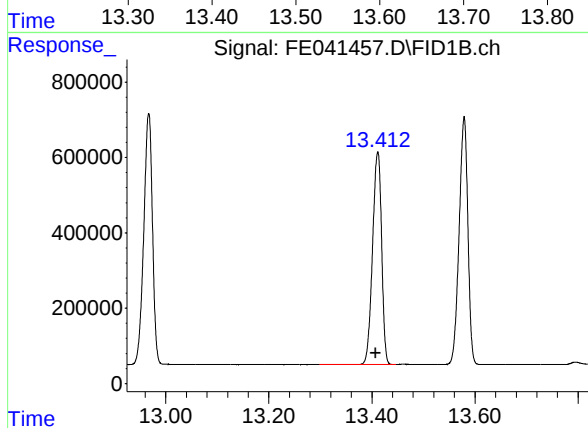
#10 n-Eicosane (C20)

R.T.: 12.967 min
Delta R.T.: 0.003 min
Response: 7791056
Conc: 50.23 ug/ml



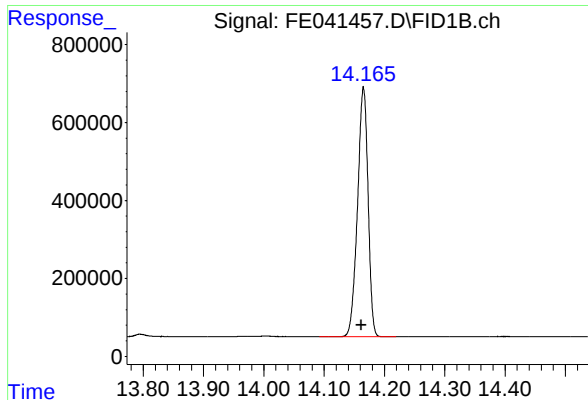
#11 n-Heneicosane (C21)

R.T.: 13.579 min
Delta R.T.: 0.003 min
Response: 7733268
Conc: 50.26 ug/ml



#12 1-chlorooctadecane (SURR)

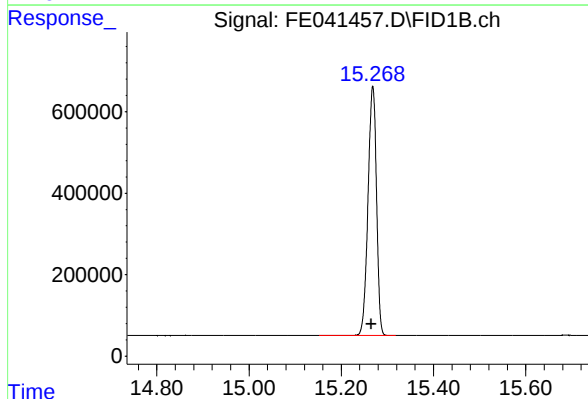
R.T.: 13.411 min
Delta R.T.: 0.004 min
Response: 6873187
Conc: 50.30 ug/ml



#13 n-Docosane (C22)

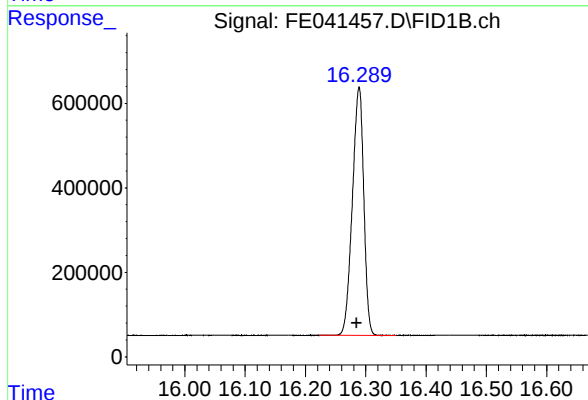
R.T.: 14.165 min
Delta R.T.: 0.003 min
Response: 7754817
Conc: 50.30 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



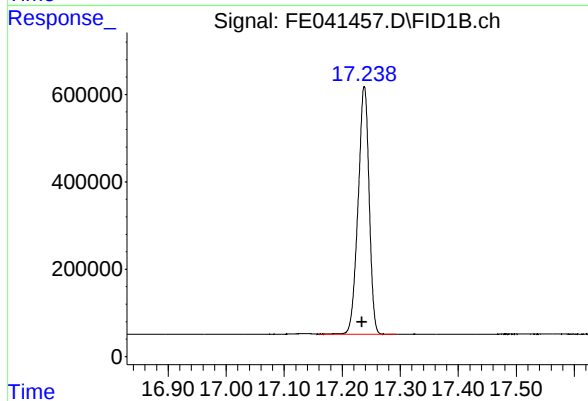
#14 n-Tetracosane (C24)

R.T.: 15.268 min
Delta R.T.: 0.003 min
Response: 7829468
Conc: 50.36 ug/ml



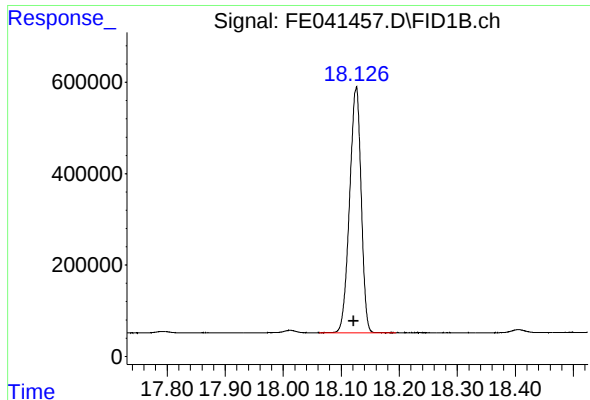
#15 n-Hexacosane (C26)

R.T.: 16.289 min
Delta R.T.: 0.004 min
Response: 7717335
Conc: 50.43 ug/ml



#16 n-Octacosane (C28)

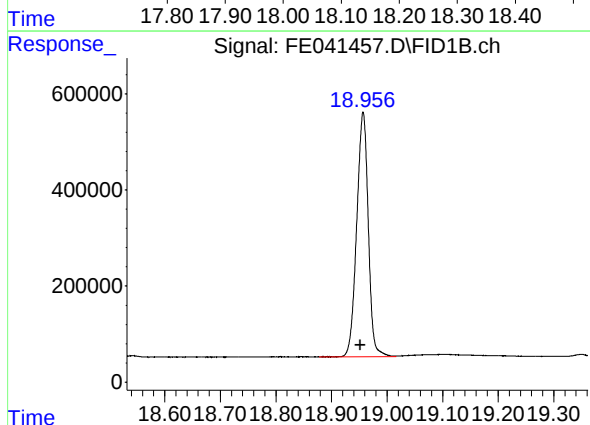
R.T.: 17.238 min
Delta R.T.: 0.004 min
Response: 7512025
Conc: 50.49 ug/ml



#17 n-Tricontane (C30)

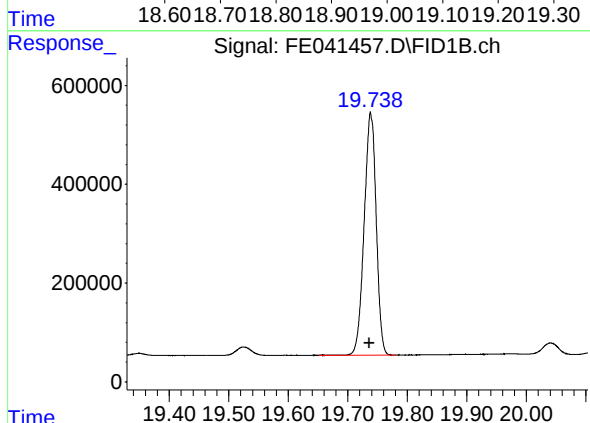
R.T.: 18.126 min
Delta R.T.: 0.004 min
Response: 7456712
Conc: 50.62 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



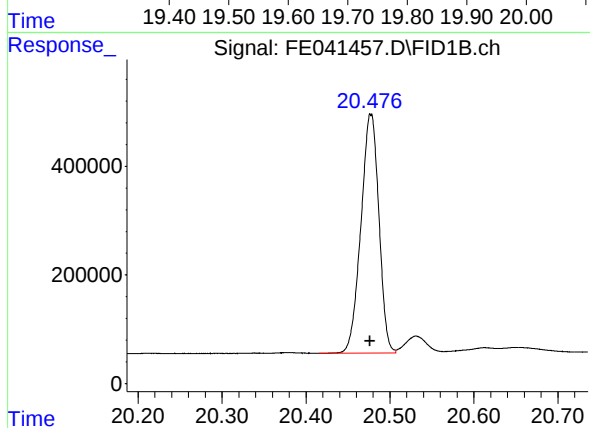
#18 n-Dotriacontane (C32)

R.T.: 18.957 min
Delta R.T.: 0.005 min
Response: 7352234
Conc: 51.02 ug/ml



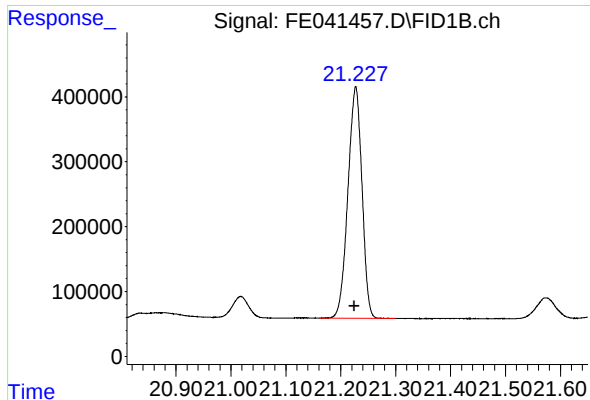
#19 n-Tetatriacontane (C34)

R.T.: 19.738 min
Delta R.T.: 0.003 min
Response: 6896010
Conc: 50.64 ug/ml



#20 n-Hexatriacontane (C36)

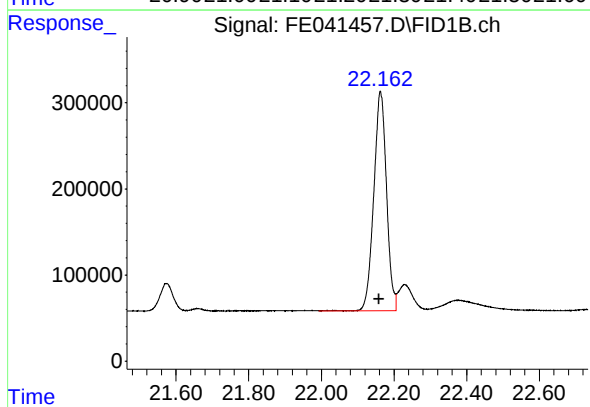
R.T.: 20.477 min
Delta R.T.: 0.001 min
Response: 6556220
Conc: 50.78 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.227 min
Delta R.T.: 0.003 min
Response: 6337565
Conc: 50.60 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 22.162 min
Delta R.T.: 0.004 min
Response: 6195574
Conc: 50.95 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042123AL\
Data File : FE041457.D
Signal(s) : FID1B.ch
Acq On : 20 Apr 2023 18:24
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 042123.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	3.357	3.316	3.418	BB	746601	7138139	78.74%	4.358%
2	4.608	4.564	4.659	BB	742417	7280691	80.31%	4.445%
3	6.310	6.268	6.345	BV	850159	8028256	88.56%	4.901%
4	6.776	6.730	6.822	BB	751022	7381795	81.43%	4.506%
5	7.407	7.355	7.446	BB	796154	7824284	86.31%	4.777%
6	8.606	8.555	8.652	BB	705831	7394057	81.56%	4.514%
7	10.214	10.165	10.268	BB	707209	7738592	85.36%	4.724%
8	11.658	11.605	11.695	VB	692807	7950942	87.71%	4.854%
9	11.977	11.908	12.028	BB	828299	9065534	100.00%	5.534%
10	12.967	12.917	13.041	BB	666135	7791056	85.94%	4.756%
11	13.411	13.298	13.447	BV	565316	6873187	75.82%	4.196%
12	13.579	13.528	13.619	BB	658027	7733268	85.30%	4.721%
13	14.165	14.092	14.219	BB	641260	7754817	85.54%	4.734%
14	15.268	15.152	15.318	BB	612454	7829468	86.37%	4.780%
15	16.289	16.223	16.350	BB	588047	7717335	85.13%	4.711%
16	17.238	17.160	17.293	VB	567223	7512025	82.86%	4.586%
17	18.126	18.062	18.194	BB	536073	7456712	82.25%	4.552%
18	18.957	18.878	19.016	BV	509230	7352234	81.10%	4.488%
19	19.738	19.652	19.781	BB	491386	6896010	76.07%	4.210%
20	20.477	20.415	20.507	PV	438932	6556220	72.32%	4.002%
21	21.227	21.160	21.300	BV	357536	6337565	69.91%	3.869%
22	22.162	21.994	22.205	BV	255079	6195574	68.34%	3.782%

Sum of corrected areas: 163807759

Aliphatic EPH 042123.M Fri Apr 21 05:13:26 2023

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042123AL\
 Data File : FE041458.D
 Signal(s) : FID1B.ch
 Acq On : 20 Apr 2023 18:54
 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: Apr 21 04:22:59 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 042123.M
 Quant Title : GC Extractables
 QLast Update : Fri Apr 21 04:18:48 2023
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.972	3704795	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.408	2790087	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.355	2905960	20.000 ug/ml
2) T n-Decane (C10)	4.606	2966612	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.308	3273924	20.000 ug/ml
4) T n-Dodecane (C12)	6.773	3010864	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.404	3192608	20.000 ug/ml
6) T n-Tetradecane (C14)	8.602	3012173	20.000 ug/ml
7) T n-Hexadecane (C16)	10.210	3159688	20.000 ug/ml
8) T n-Octadecane (C18)	11.654	3243188	20.000 ug/ml
10) T n-Eicosane (C20)	12.964	3177305	20.000 ug/ml
11) T n-Heneicosane (C21)	13.576	3149090	20.000 ug/ml
13) T n-Docosane (C22)	14.162	3148865	20.000 ug/ml
14) T n-Tetracosane (C24)	15.265	3176612	20.000 ug/ml
15) T n-Hexacosane (C26)	16.285	3115649	20.000 ug/ml
16) T n-Octacosane (C28)	17.234	3029305	20.000 ug/ml
17) T n-Tricontane (C30)	18.122	2992589	20.000 ug/ml
18) T n-Dotriacontane (C32)	18.952	2949902	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.736	2785631	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.476	2638540	20.000 ug/ml
21) T n-Octatriacontane (C38)	21.225	2578334	20.000 ug/ml
22) T n-Tetracontane (C40)	22.159	2486280	20.000 ug/ml

(f)=RT Delta > 1/2 Window

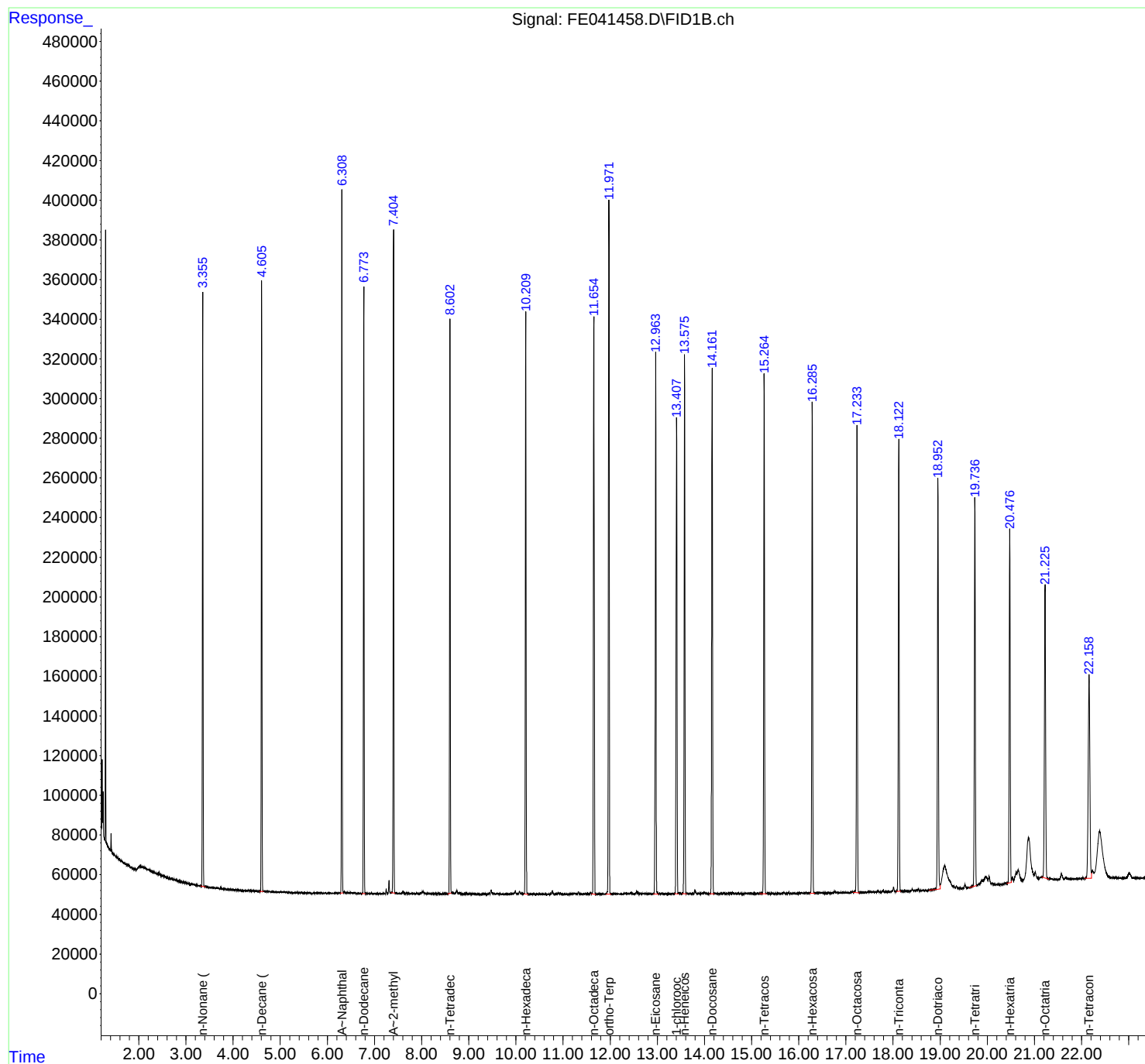
(m)=manual int.

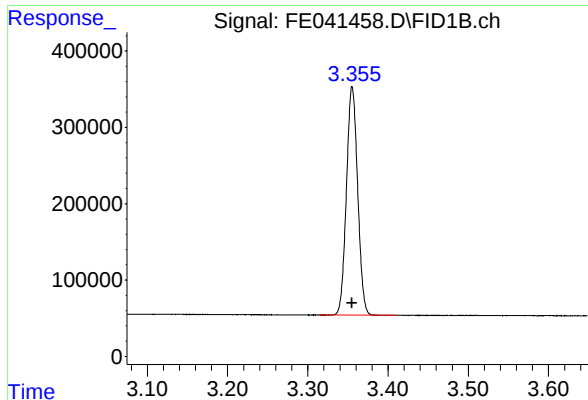
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042123AL\
Data File : FE041458.D
Signal(s) : FID1B.ch
Acq On : 20 Apr 2023 18:54
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Apr 21 04:22:59 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 042123.M
Quant Title : GC Extractables
QLast Update : Fri Apr 21 04:18:48 2023
Response via : Initial Calibration
Integrator: ChemStation

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

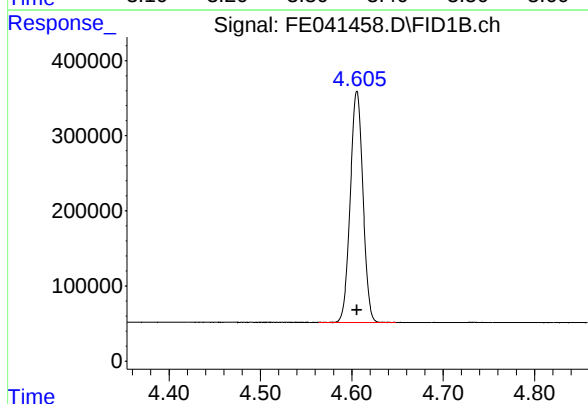




#1 n-Nonane (C9)

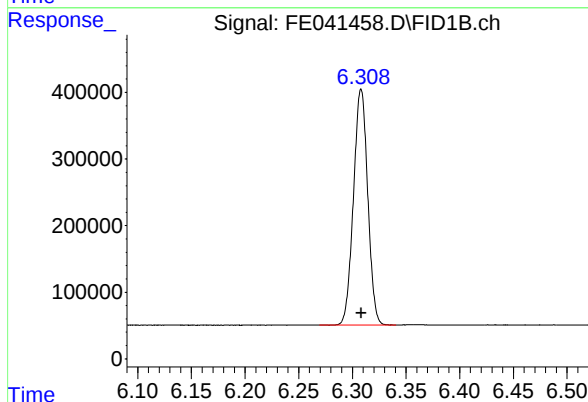
R.T.: 3.355 min
Delta R.T.: 0.000 min
Response: 2905960
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



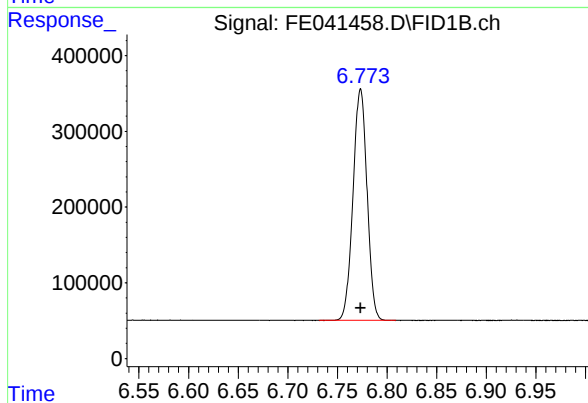
#2 n-Decane (C10)

R.T.: 4.606 min
Delta R.T.: 0.000 min
Response: 2966612
Conc: 20.00 ug/ml



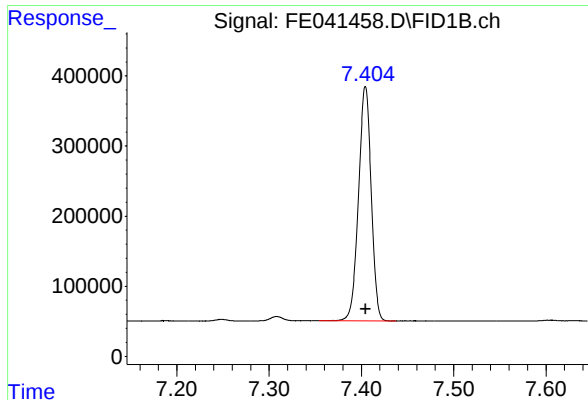
#3 A~Naphthalene (C11.7)

R.T.: 6.308 min
Delta R.T.: 0.000 min
Response: 3273924
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

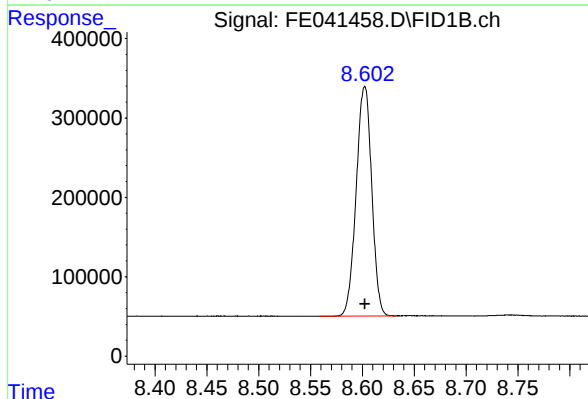
R.T.: 6.773 min
Delta R.T.: 0.000 min
Response: 3010864
Conc: 20.00 ug/ml



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

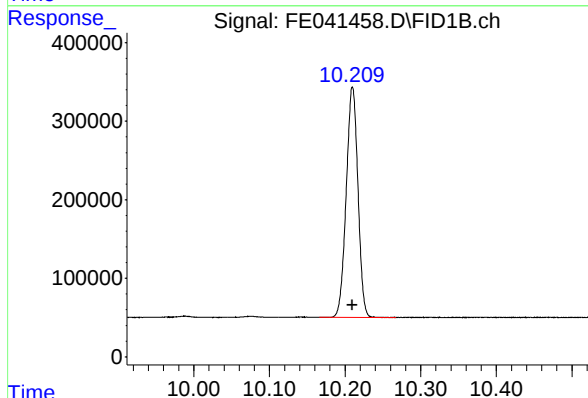
R.T.: 7.404 min
Delta R.T.: 0.000 min
Response: 3192608
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



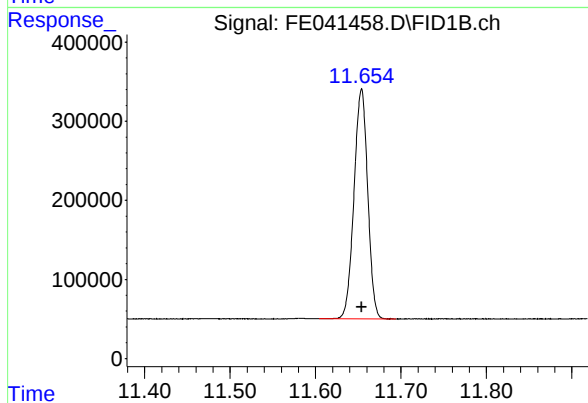
#6 n-Tetradecane (C14)

R.T.: 8.602 min
Delta R.T.: 0.000 min
Response: 3012173
Conc: 20.00 ug/ml



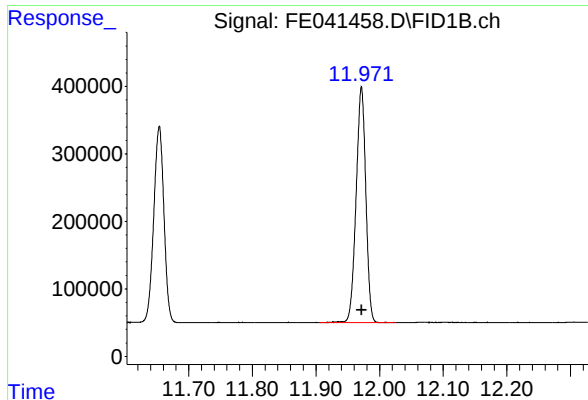
#7 n-Hexadecane (C16)

R.T.: 10.210 min
Delta R.T.: 0.000 min
Response: 3159688
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

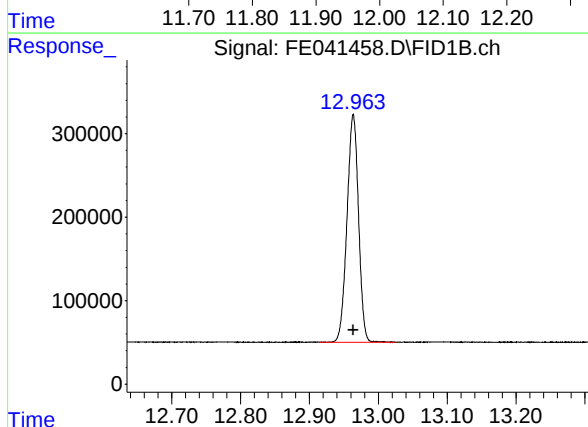
R.T.: 11.654 min
Delta R.T.: 0.000 min
Response: 3243188
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

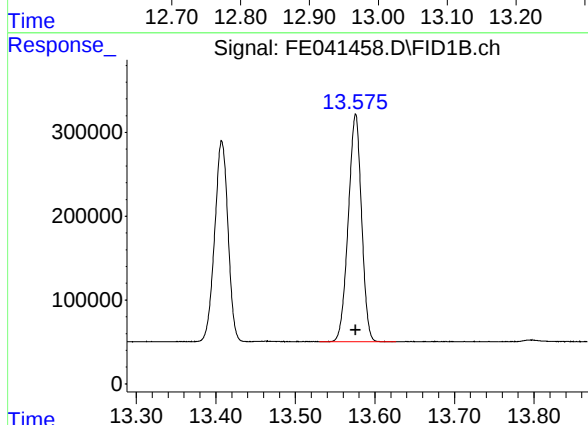
R.T.: 11.972 min
Delta R.T.: 0.000 min
Response: 3704795
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



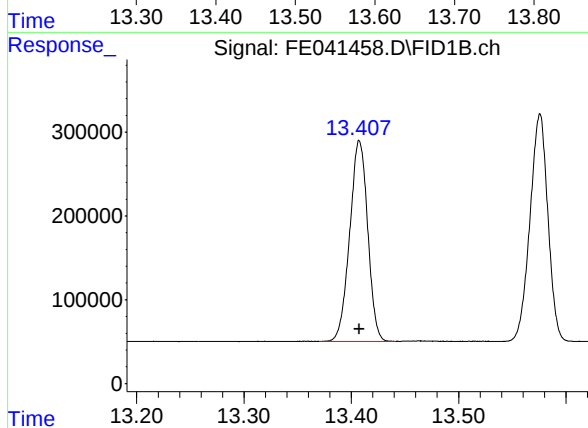
#10 n-Eicosane (C20)

R.T.: 12.964 min
Delta R.T.: 0.000 min
Response: 3177305
Conc: 20.00 ug/ml



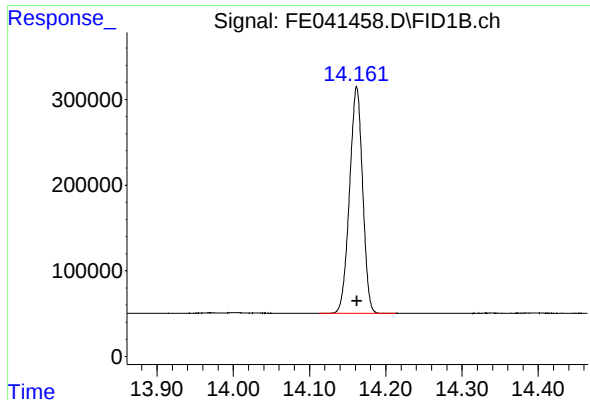
#11 n-Heneicosane (C21)

R.T.: 13.576 min
Delta R.T.: 0.000 min
Response: 3149090
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

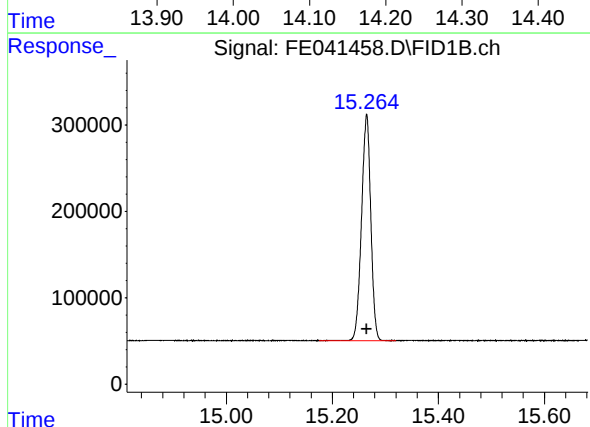
R.T.: 13.408 min
Delta R.T.: 0.000 min
Response: 2790087
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

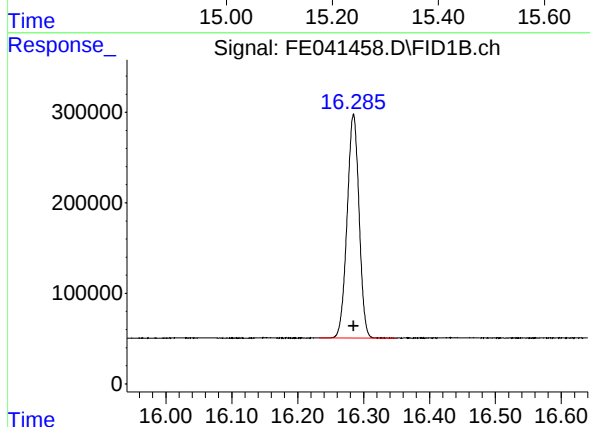
R.T.: 14.162 min
Delta R.T.: 0.000 min
Response: 3148865
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



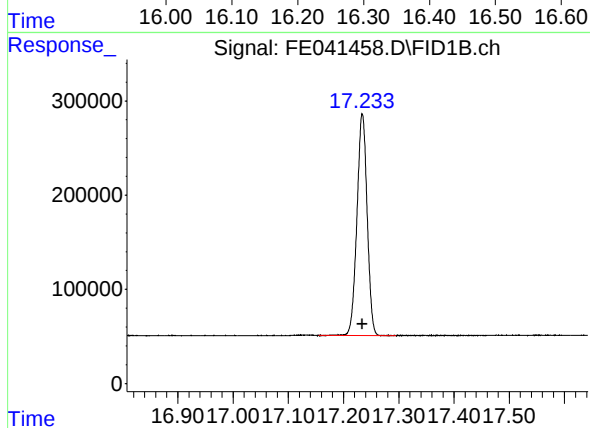
#14 n-Tetracosane (C24)

R.T.: 15.265 min
Delta R.T.: 0.000 min
Response: 3176612
Conc: 20.00 ug/ml



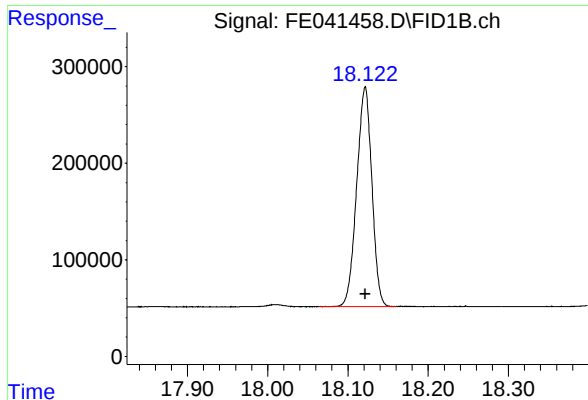
#15 n-Hexacosane (C26)

R.T.: 16.285 min
Delta R.T.: 0.000 min
Response: 3115649
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

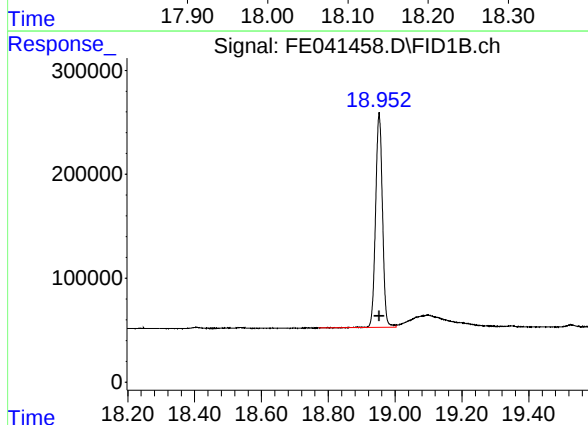
R.T.: 17.234 min
Delta R.T.: 0.000 min
Response: 3029305
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

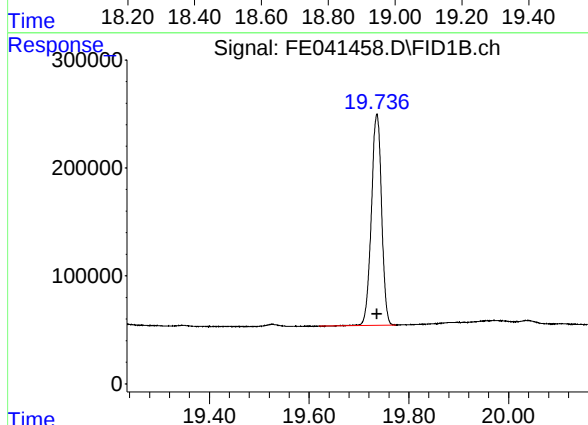
R.T.: 18.122 min
Delta R.T.: 0.000 min
Response: 2992589
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



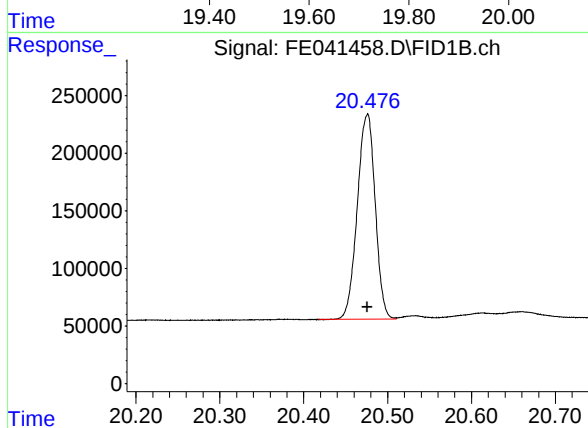
#18 n-Dotriacontane (C32)

R.T.: 18.952 min
Delta R.T.: 0.000 min
Response: 2949902
Conc: 20.00 ug/ml



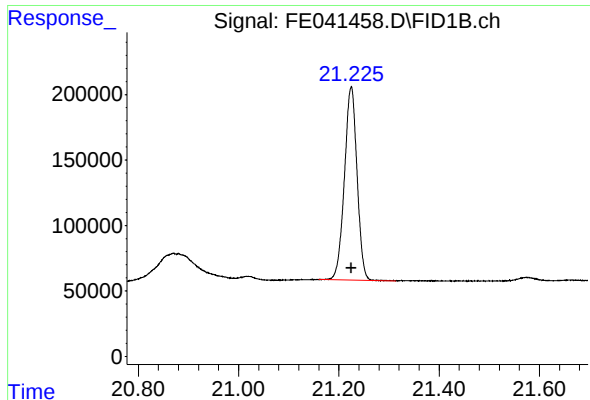
#19 n-Tetratriacontane (C34)

R.T.: 19.736 min
Delta R.T.: 0.000 min
Response: 2785631
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

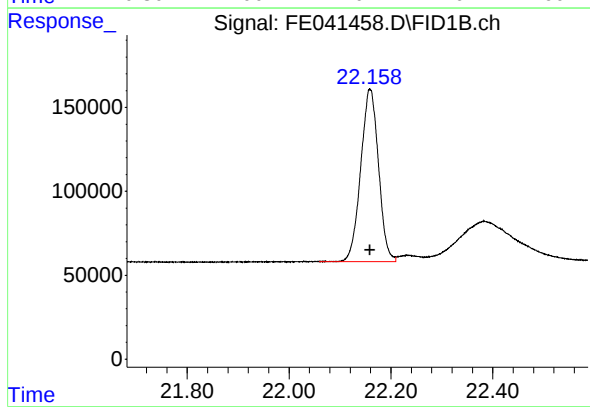
R.T.: 20.476 min
Delta R.T.: 0.000 min
Response: 2638540
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.225 min
Delta R.T.: 0.000 min
Response: 2578334
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 22.159 min
Delta R.T.: 0.000 min
Response: 2486280
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042123AL\
Data File : FE041458.D
Signal(s) : FID1B.ch
Acq On : 20 Apr 2023 18:54
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 042123.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	3.355	3.314	3.410	BB	298963	2905960	78.44%	4.371%
2	4.606	4.564	4.648	BB	307875	2966612	80.07%	4.462%
3	6.308	6.269	6.341	BV	354525	3273924	88.37%	4.924%
4	6.773	6.732	6.809	BB	305861	3010864	81.27%	4.528%
5	7.404	7.354	7.437	BB	334476	3192608	86.18%	4.802%
6	8.602	8.558	8.632	BB	289256	3012173	81.30%	4.530%
7	10.210	10.166	10.267	BB	293396	3159688	85.29%	4.752%
8	11.654	11.604	11.694	BB	291311	3243188	87.54%	4.878%
9	11.972	11.905	12.026	BB	349844	3704795	100.00%	5.572%
10	12.964	12.914	13.026	BB	272906	3177305	85.76%	4.779%
11	13.408	13.370	13.442	BV	239663	2790087	75.31%	4.196%
12	13.576	13.530	13.627	BB	272043	3149090	85.00%	4.736%
13	14.162	14.112	14.213	BB	264632	3148865	84.99%	4.736%
14	15.265	15.175	15.320	BB	262090	3176612	85.74%	4.778%
15	16.285	16.232	16.349	BB	247636	3115649	84.10%	4.686%
16	17.234	17.156	17.295	BB	235163	3029305	81.77%	4.556%
17	18.122	18.064	18.160	BB	227821	2992589	80.78%	4.501%
18	18.952	18.772	19.002	BV	207082	2949902	79.62%	4.437%
19	19.736	19.620	19.774	BB	195710	2785631	75.19%	4.190%
20	20.476	20.418	20.510	BV	177760	2638540	71.22%	3.968%
21	21.225	21.160	21.314	BB	148096	2578334	69.59%	3.878%
22	22.159	22.059	22.210	BV	102497	2486280	67.11%	3.739%
Sum of corrected areas:							66488000	

Aliphatic EPH 042123.M Fri Apr 21 05:14:04 2023

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042123AL\
 Data File : FE041459.D
 Signal(s) : FID1B.ch
 Acq On : 20 Apr 2023 19:24
 Operator : YP\AJ
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 04/21/2023
 Supervised By :Ankita Jodhani 04/21/2023

Integration File: autoint1.e
 Quant Time: Apr 21 04:29:58 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 042123.M
 Quant Title : GC Extractables
 QLast Update : Fri Apr 21 04:18:48 2023
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.970	1945799	10.570 ug/ml
Spiked Amount 50.000		Recovery =	21.14%
12) S 1-chlorooctadecane (S...	13.406	1459999	10.505 ug/ml
Spiked Amount 50.000		Recovery =	21.01%
Target Compounds			
1) T n-Nonane (C9)	3.355	1519629	10.517 ug/ml
2) T n-Decane (C10)	4.606	1548987	10.507 ug/ml
3) T A~Naphthalene (C11.7)	6.308	1711801	10.521 ug/ml
4) T n-Dodecane (C12)	6.773	1569400	10.496 ug/ml
5) T A~2-methylnaphthalene...	7.403	1667561	10.513 ug/ml
6) T n-Tetradecane (C14)	8.602	1569000	10.482 ug/ml
7) T n-Hexadecane (C16)	10.209	1646801	10.502 ug/ml
8) T n-Octadecane (C18)	11.652	1694967	10.521 ug/ml
10) T n-Eicosane (C20)	12.962	1663595	10.534 ug/ml
11) T n-Heneicosane (C21)	13.574	1647929	10.523 ug/ml
13) T n-Docosane (C22)	14.161	1644515	10.493 ug/ml
14) T n-Tetracosane (C24)	15.263	1666738	10.531 ug/ml
15) T n-Hexacosane (C26)	16.284	1635171	10.506 ug/ml
16) T n-Octacosane (C28)	17.232	1593886	10.525 ug/ml
17) T n-Tricontane (C30)	18.120	1580001	10.535 ug/ml
18) T n-Dotriacontane (C32)	18.952	1549957	10.557 ug/ml
19) T n-Tetratriacontane (C34)	19.734	1465194	10.558 ug/mlm
20) T n-Hexatriacontane (C36)	20.473	1402389	10.632 ug/ml
21) T n-Octatriacontane (C38)	21.224	1385638	10.777 ug/ml
22) T n-Tetracontane (C40)	22.158	1343661	10.767 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042123AL\
Data File : FE041459.D
Signal(s) : FID1B.ch
Acq On : 20 Apr 2023 19:24
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

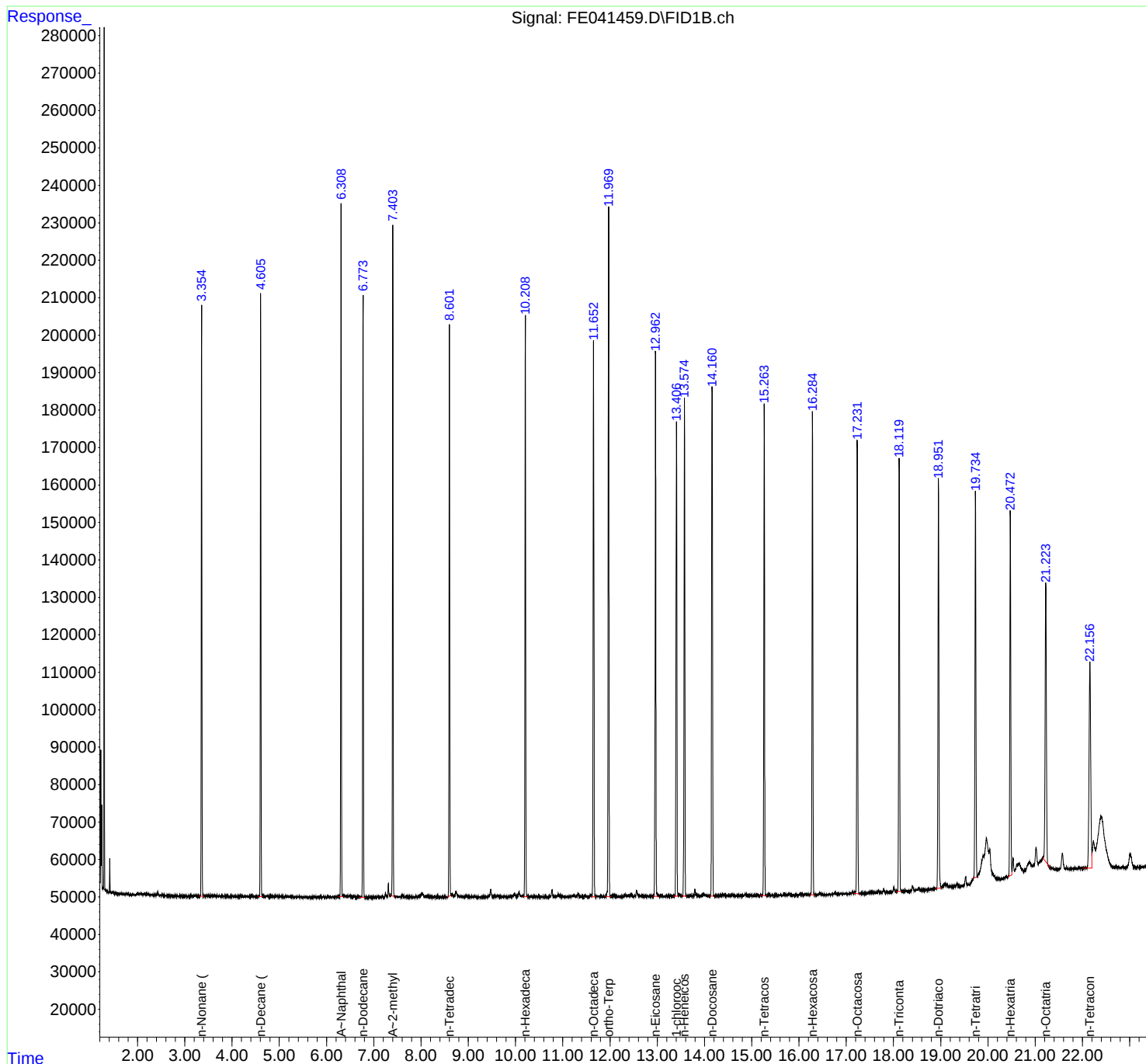
Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

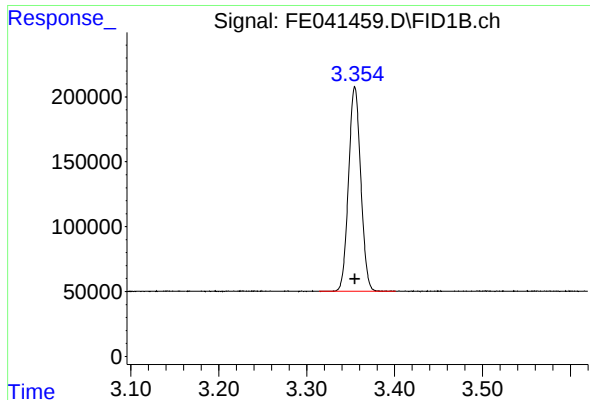
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/21/2023
Supervised By :Ankita Jodhani 04/21/2023

Integration File: autoint1.e
Quant Time: Apr 21 04:29:58 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 042123.
Quant Title : GC Extractables
QLast Update : Fri Apr 21 04:18:48 2023
Response via : Initial Calibration
Integrator: ChemStation

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





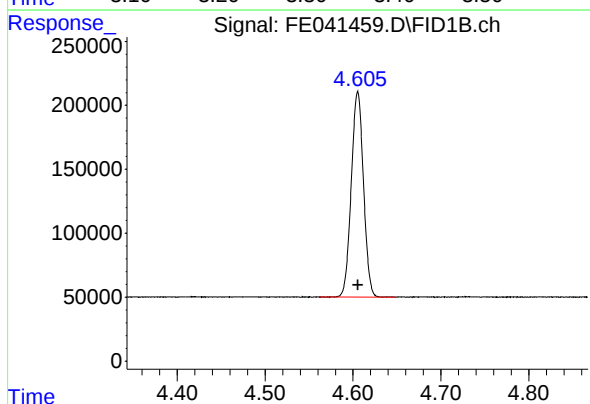
#1 n-Nonane (C9)

R.T.: 3.355 min
Delta R.T.: 0.000 min
Response: 1519629
Conc: 10.52 ug/ml

Instrument : FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

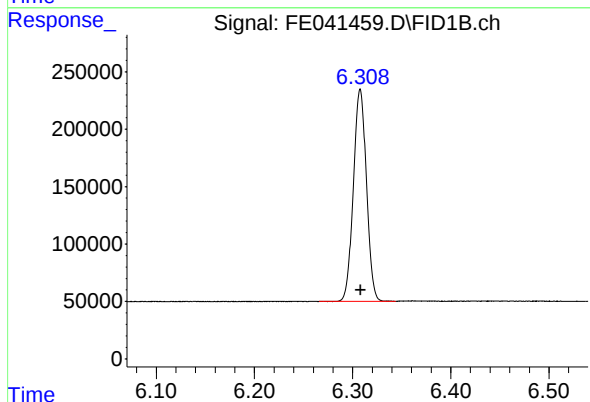
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/21/2023
Supervised By :Ankita Jodhani 04/21/2023



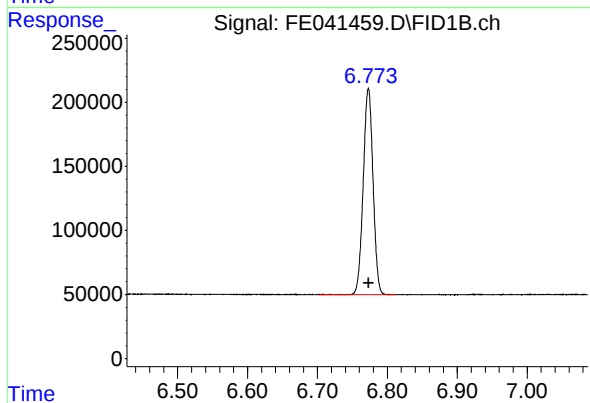
#2 n-Decane (C10)

R.T.: 4.606 min
Delta R.T.: 0.000 min
Response: 1548987
Conc: 10.51 ug/ml



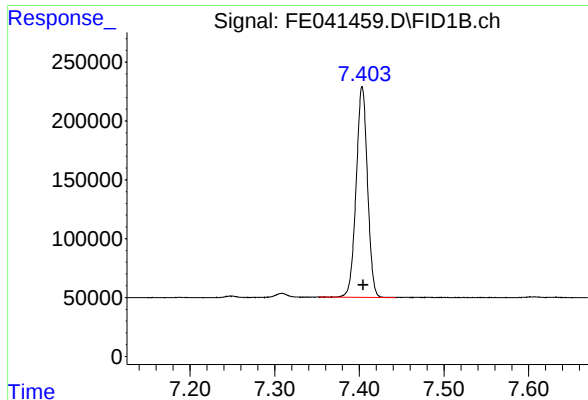
#3 A~Naphthalene (C11.7)

R.T.: 6.308 min
Delta R.T.: 0.000 min
Response: 1711801
Conc: 10.52 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.773 min
Delta R.T.: 0.000 min
Response: 1569400
Conc: 10.50 ug/ml



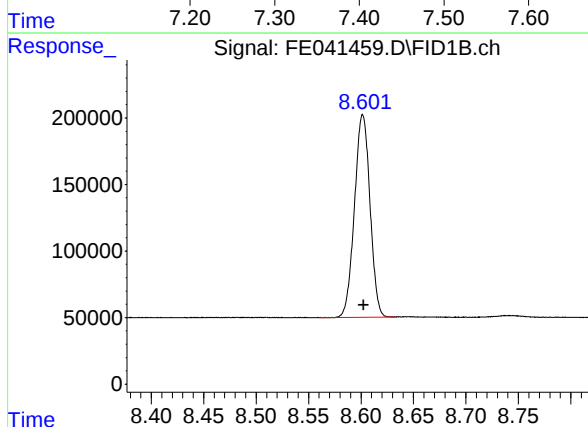
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.403 min
Delta R.T.: 0.000 min
Response: 1667561
Conc: 10.51 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

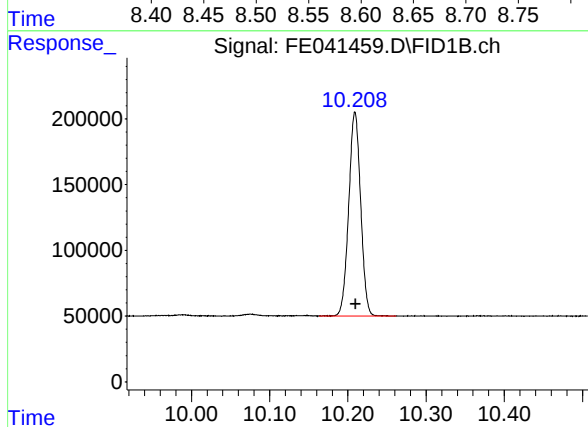
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/21/2023
Supervised By :Ankita Jodhani 04/21/2023



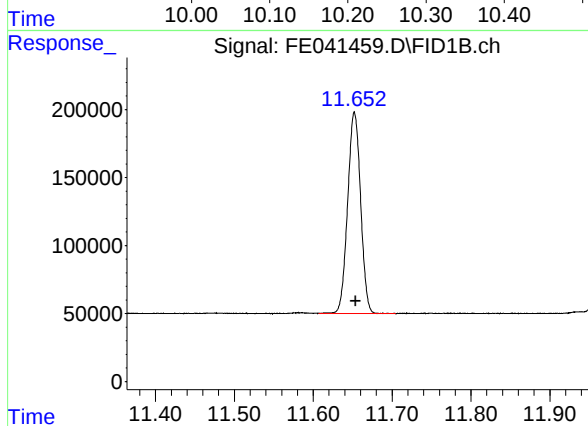
#6 n-Tetradecane (C14)

R.T.: 8.602 min
Delta R.T.: 0.000 min
Response: 1569000
Conc: 10.48 ug/ml



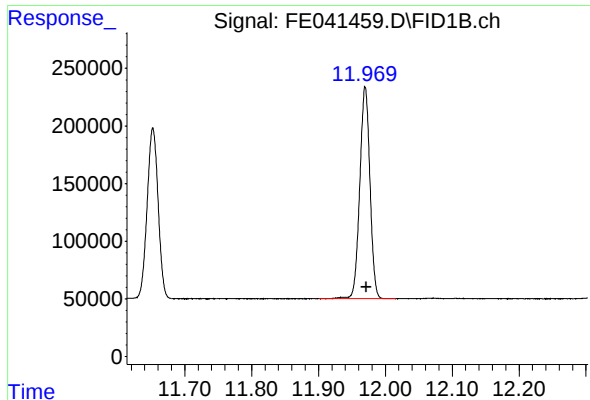
#7 n-Hexadecane (C16)

R.T.: 10.209 min
Delta R.T.: 0.000 min
Response: 1646801
Conc: 10.50 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.652 min
Delta R.T.: -0.002 min
Response: 1694967
Conc: 10.52 ug/ml



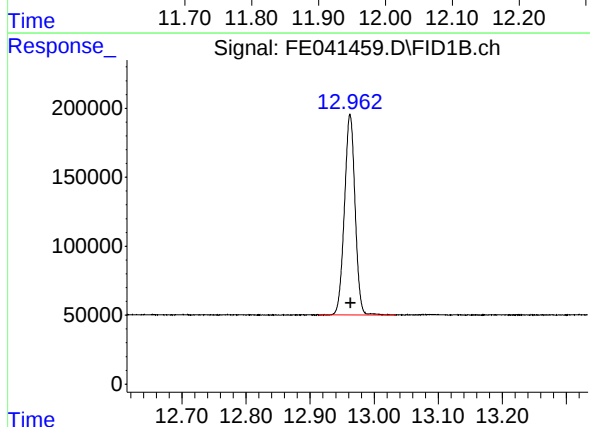
#9 ortho-Terphenyl (SURR)

R.T.: 11.970 min
Delta R.T.: -0.002 min
Response: 1945799
Conc: 10.57 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

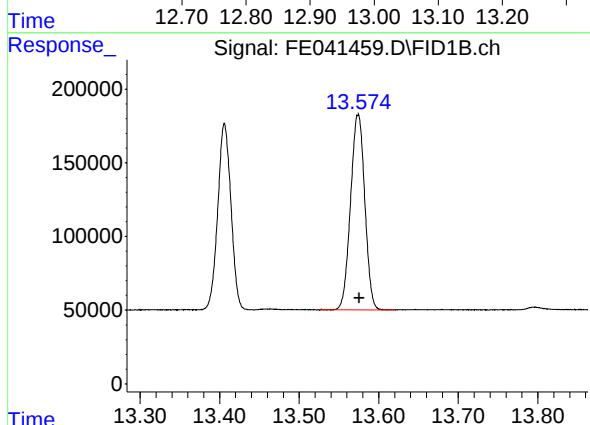
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/21/2023
Supervised By :Ankita Jodhani 04/21/2023



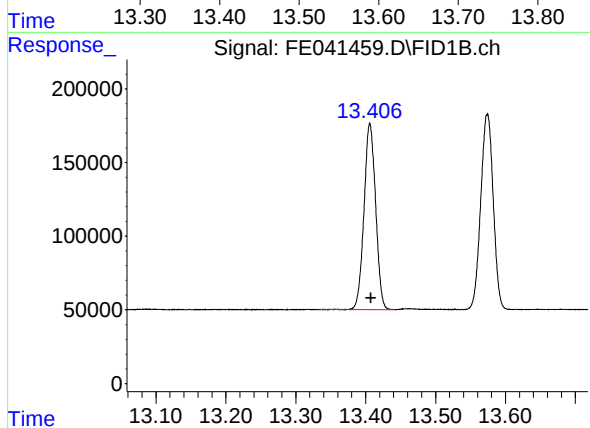
#10 n-Eicosane (C20)

R.T.: 12.962 min
Delta R.T.: -0.001 min
Response: 1663595
Conc: 10.53 ug/ml



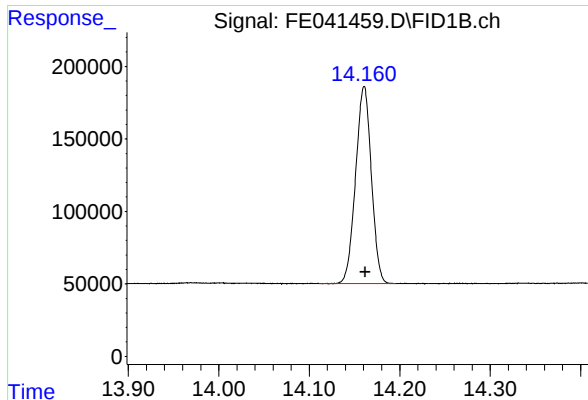
#11 n-Heneicosane (C21)

R.T.: 13.574 min
Delta R.T.: -0.002 min
Response: 1647929
Conc: 10.52 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.406 min
Delta R.T.: -0.001 min
Response: 1459999
Conc: 10.51 ug/ml



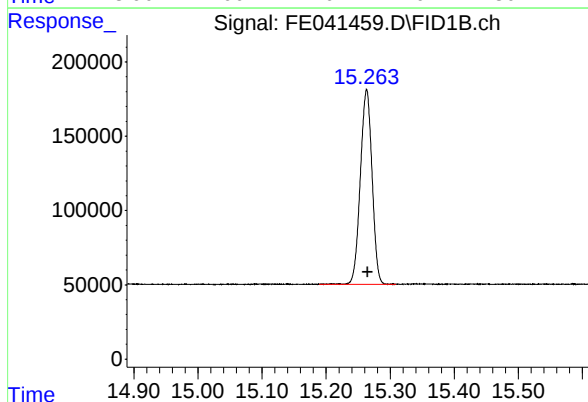
#13 n-Docosane (C22)

R.T.: 14.161 min
Delta R.T.: -0.001 min
Response: 1644515
Conc: 10.49 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

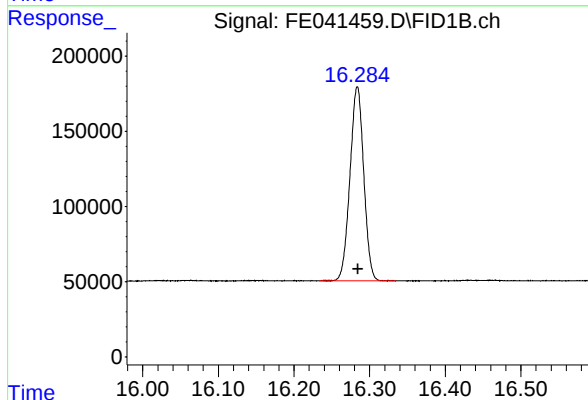
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/21/2023
Supervised By :Ankita Jodhani 04/21/2023



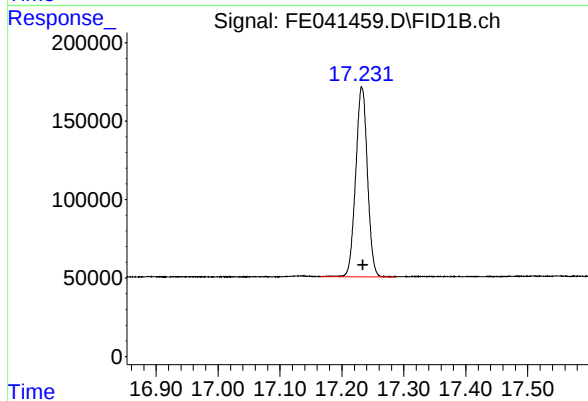
#14 n-Tetracosane (C24)

R.T.: 15.263 min
Delta R.T.: -0.002 min
Response: 1666738
Conc: 10.53 ug/ml



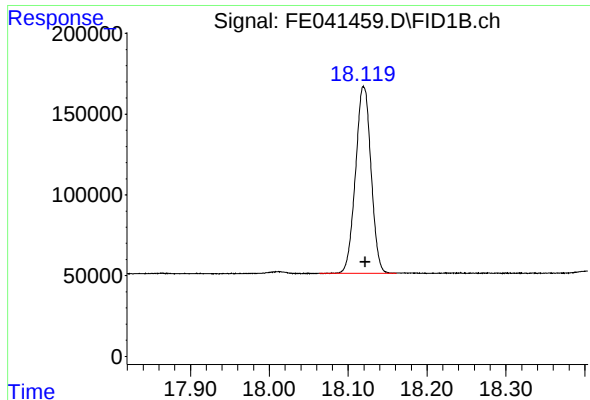
#15 n-Hexacosane (C26)

R.T.: 16.284 min
Delta R.T.: 0.000 min
Response: 1635171
Conc: 10.51 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.232 min
Delta R.T.: -0.002 min
Response: 1593886
Conc: 10.52 ug/ml



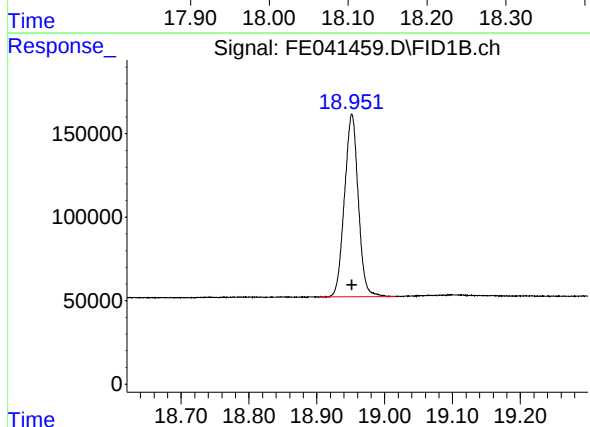
#17 n-Tricontane (C30)

R.T.: 18.120 min
Delta R.T.: -0.002 min
Response: 1580001
Conc: 10.53 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

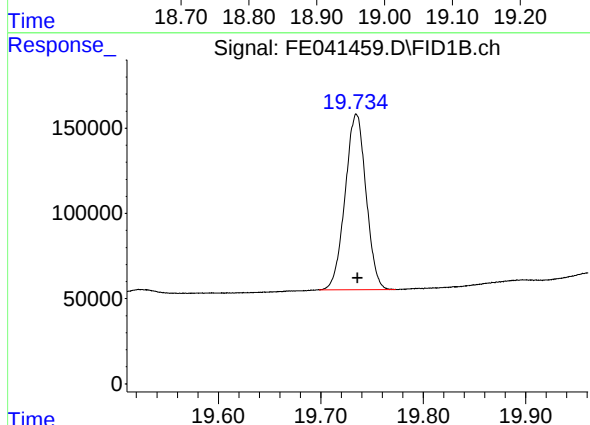
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/21/2023
Supervised By :Ankita Jodhani 04/21/2023



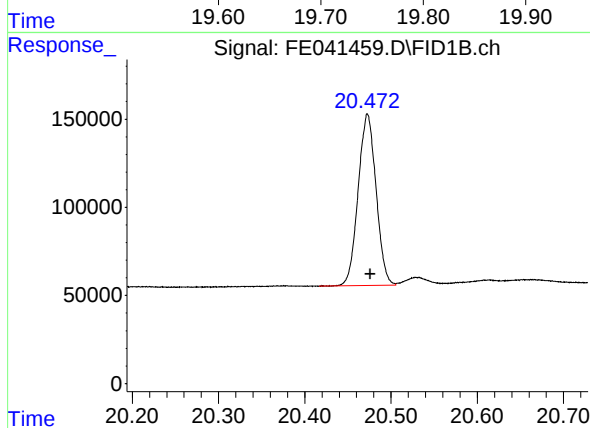
#18 n-Dotriacontane (C32)

R.T.: 18.952 min
Delta R.T.: 0.000 min
Response: 1549957
Conc: 10.56 ug/ml



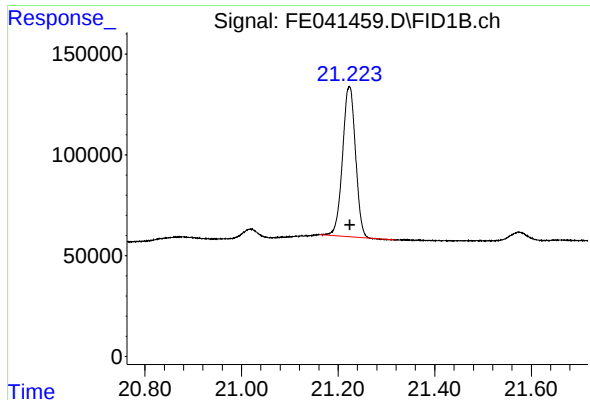
#19 n-Tetratriacontane (C34)

R.T.: 19.734 min
Delta R.T.: -0.002 min
Response: 1465194
Conc: 10.56 ug/ml m



#20 n-Hexatriacontane (C36)

R.T.: 20.473 min
Delta R.T.: -0.003 min
Response: 1402389
Conc: 10.63 ug/ml



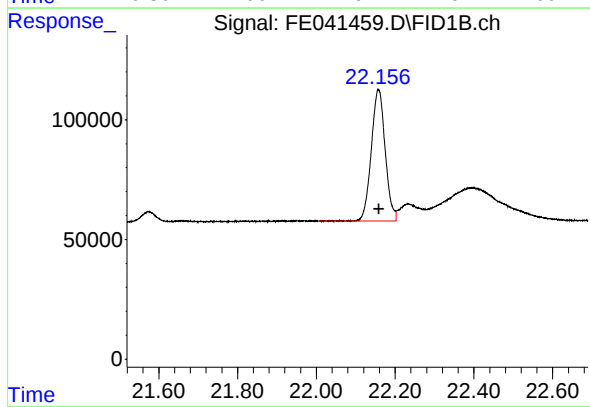
#21 n-Octatriacontane (C38)

R.T.: 21.224 min
Delta R.T.: -0.001 min
Response: 1385638
Conc: 10.78 ug/ml

Instrument : FID_E
ClientSampleId : 10 PPM ALIPHATIC HC STD4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/21/2023
Supervised By :Ankita Jodhani 04/21/2023



#22 n-Tetracontane (C40)

R.T.: 22.158 min
Delta R.T.: -0.001 min
Response: 1343661
Conc: 10.77 ug/ml

rters

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

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042123
Data File : FE041459.D
Signal(s) : FID1B.ch
Acq On : 20 Apr 2023 19:24
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Reviewed By :Yogesh Patel 04/21/2023
Supervised By :Ankita Jodhani 04/21/2023

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 042123.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	3.355	3.314	3.401	BB	157764	1519629	78.10%	4.351%
2	4.606	4.561	4.649	BB	160866	1548987	79.61%	4.435%
3	6.308	6.266	6.344	BV	185203	1711801	87.97%	4.901%
4	6.773	6.702	6.812	BB	160811	1569400	80.66%	4.493%
5	7.403	7.352	7.443	BB	179193	1667561	85.70%	4.774%
6	8.602	8.560	8.633	BV	152521	1569000	80.64%	4.492%
7	10.209	10.163	10.261	BB	155145	1646801	84.63%	4.715%
8	11.652	11.607	11.705	BB	148269	1694967	87.11%	4.853%
9	11.970	11.901	12.016	BB	183667	1945799	100.00%	5.571%
10	12.962	12.914	13.034	BB	145381	1663595	85.50%	4.763%
11	13.406	13.333	13.443	BV	126677	1459999	75.03%	4.180%
12	13.574	13.525	13.621	BB	132244	1647929	84.69%	4.718%
13	14.161	14.111	14.196	BB	136066	1644515	84.52%	4.708%
14	15.263	15.189	15.309	BB	131275	1666738	85.66%	4.772%
15	16.284	16.233	16.335	BB	129147	1635171	84.04%	4.681%
16	17.232	17.163	17.287	BB	120539	1593886	81.91%	4.563%
17	18.120	18.063	18.161	BB	115639	1580001	81.20%	4.523%
18	18.952	18.903	19.016	BV	109447	1549957	79.66%	4.437%
19	19.734	19.663	19.762	M	103619	1481947	76.16%	4.243%
20	20.473	20.416	20.506	BV	97105	1402389	72.07%	4.015%
21	21.224	21.161	21.320	BB	74445	1385638	71.21%	3.967%
22	22.158	22.007	22.202	BV	54999	1343661	69.05%	3.847%
Sum of corrected areas:						34929371		

Aliphatic EPH 042123.M Fri Apr 21 05:14:40 2023

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042123AL\
 Data File : FE041460.D
 Signal(s) : FID1B.ch
 Acq On : 20 Apr 2023 19:55
 Operator : YP\AJ
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 04/21/2023
 Supervised By :Ankita Jodhani 04/21/2023

Integration File: autoint1.e
 Quant Time: Apr 21 04:31:48 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 042123.M
 Quant Title : GC Extractables
 QLast Update : Fri Apr 21 04:18:48 2023
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.970	1008438	5.375 ug/ml
Spiked Amount 50.000		Recovery =	10.75%
12) S 1-chlorooctadecane (S...	13.406	752185	5.324 ug/ml
Spiked Amount 50.000		Recovery =	10.65%
Target Compounds			
1) T n-Nonane (C9)	3.356	784968	5.340 ug/ml
2) T n-Decane (C10)	4.606	800958	5.340 ug/ml
3) T A~Naphthalene (C11.7)	6.308	883038	5.336 ug/ml
4) T n-Dodecane (C12)	6.773	810742	5.332 ug/ml
5) T A~2-methylnaphthalene...	7.404	858844	5.326 ug/ml
6) T n-Tetradecane (C14)	8.601	803882	5.292 ug/ml
7) T n-Hexadecane (C16)	10.208	853397	5.348 ug/ml
8) T n-Octadecane (C18)	11.652	875757	5.343 ug/ml
10) T n-Eicosane (C20)	12.962	862696	5.364 ug/ml
11) T n-Heneicosane (C21)	13.574	852239	5.348 ug/ml
13) T n-Docosane (C22)	14.160	848604	5.326 ug/ml
14) T n-Tetracosane (C24)	15.263	864982	5.365 ug/ml
15) T n-Hexacosane (C26)	16.284	839589	5.311 ug/ml
16) T n-Octacosane (C28)	17.232	817992	5.316 ug/ml
17) T n-Tricontane (C30)	18.118	807994	5.305 ug/ml
18) T n-Dotriacontane (C32)	18.952	788055	5.290 ug/ml
19) T n-Tetratriacontane (C34)	19.733	746831	5.297 ug/mlm
20) T n-Hexatriacontane (C36)	20.472	705248	5.268 ug/mlm
21) T n-Octatriacontane (C38)	21.222	732000	5.537 ug/mlm
22) T n-Tetracontane (C40)	22.154	669392	5.287 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042123AL\
Data File : FE041460.D
Signal(s) : FID1B.ch
Acq On : 20 Apr 2023 19:55
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

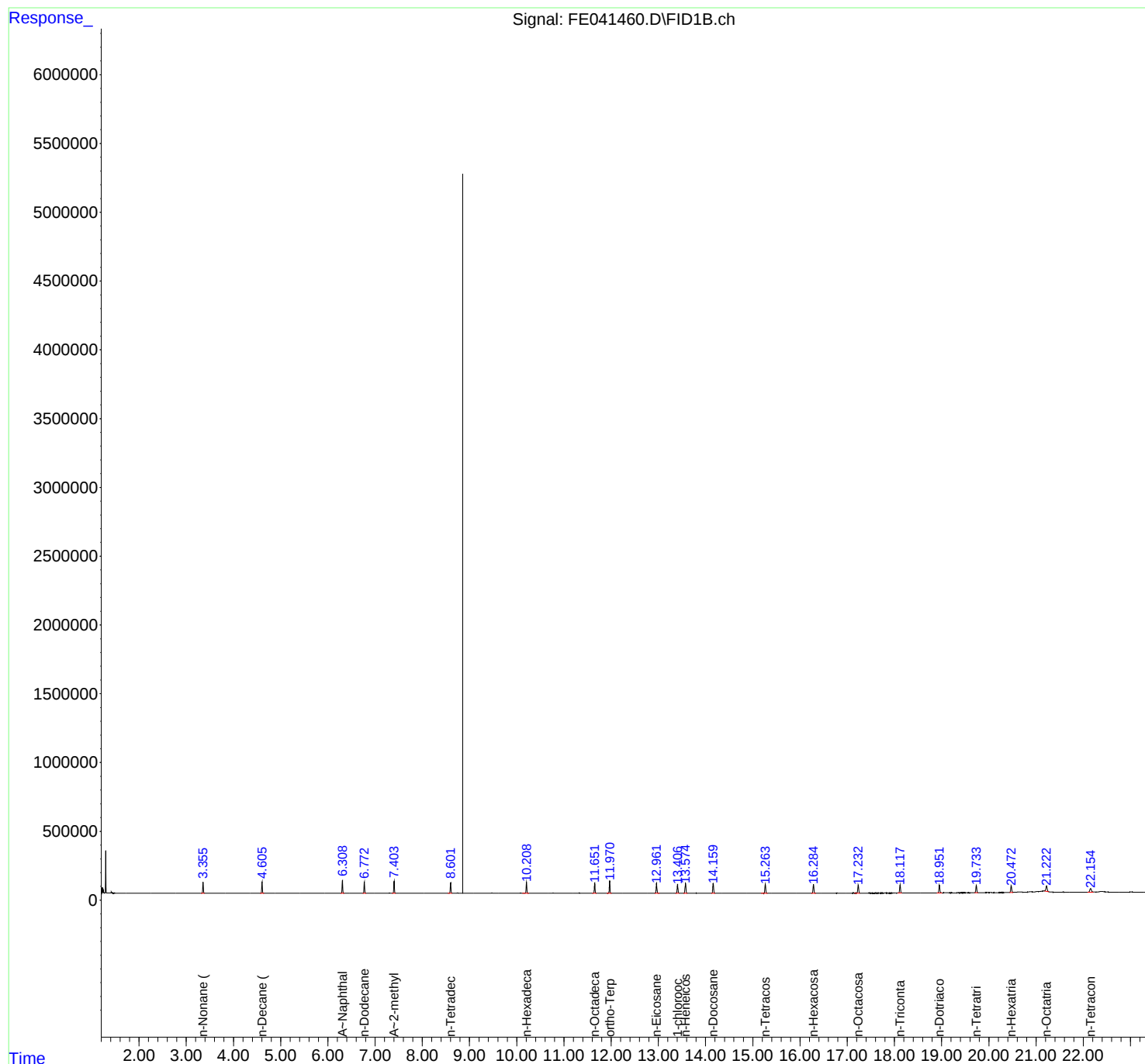
Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

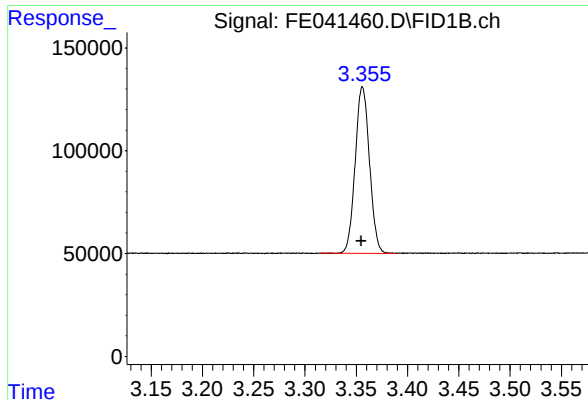
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/21/2023
Supervised By :Ankita Jodhani 04/21/2023

Integration File: autoint1.e
Quant Time: Apr 21 04:31:48 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 042123.
Quant Title : GC Extractables
QLast Update : Fri Apr 21 04:18:48 2023
Response via : Initial Calibration
Integrator: ChemStation

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





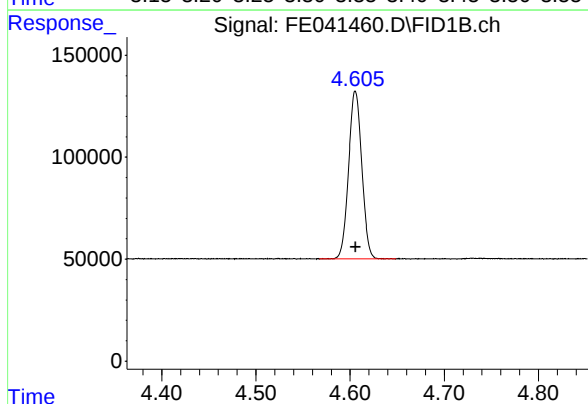
#1 n-Nonane (C9)

R.T.: 3.356 min
Delta R.T.: 0.001 min
Response: 784968
Conc: 5.34 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

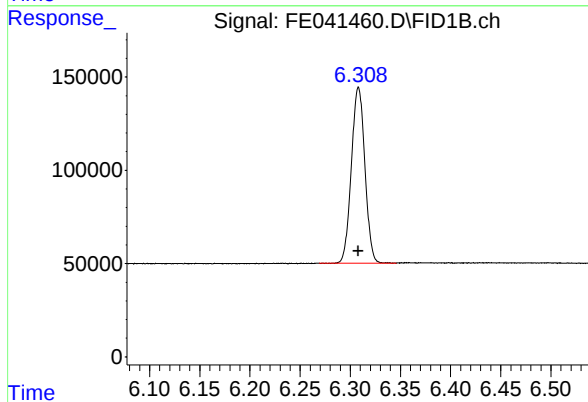
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/21/2023
Supervised By :Ankita Jodhani 04/21/2023



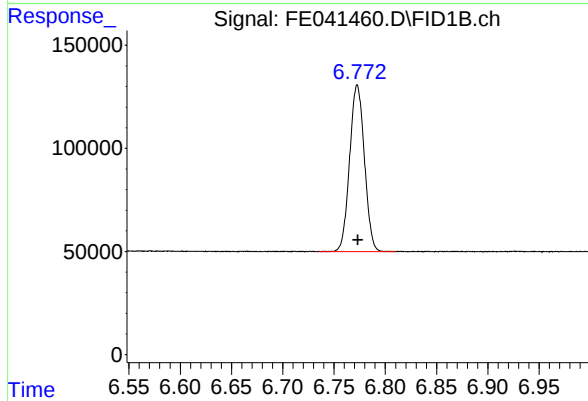
#2 n-Decane (C10)

R.T.: 4.606 min
Delta R.T.: 0.000 min
Response: 800958
Conc: 5.34 ug/ml



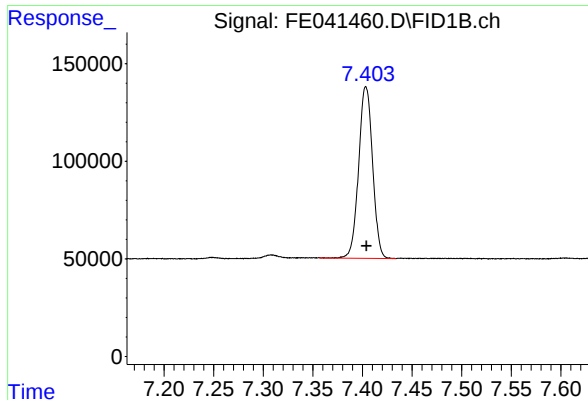
#3 A~Naphthalene (C11.7)

R.T.: 6.308 min
Delta R.T.: 0.000 min
Response: 883038
Conc: 5.34 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.773 min
Delta R.T.: 0.000 min
Response: 810742
Conc: 5.33 ug/ml



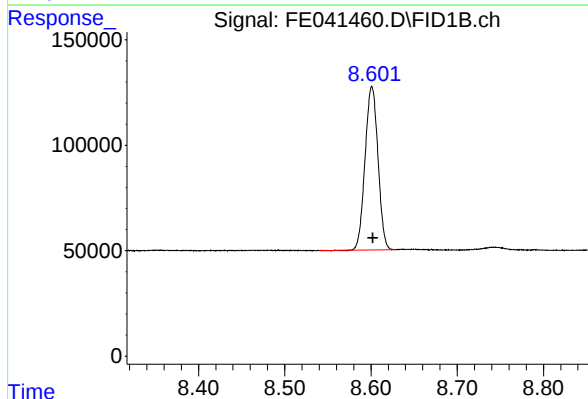
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.404 min
Delta R.T.: 0.000 min
Response: 858844
Conc: 5.33 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

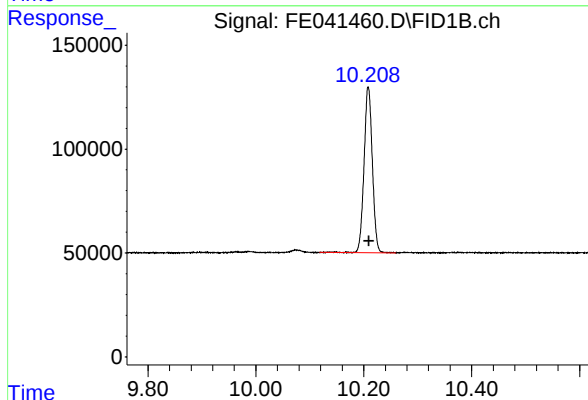
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/21/2023
Supervised By :Ankita Jodhani 04/21/2023



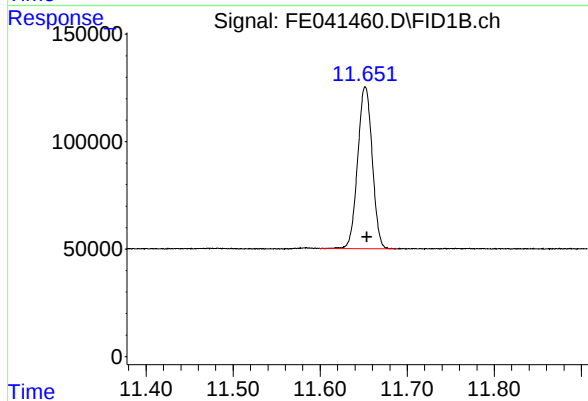
#6 n-Tetradecane (C14)

R.T.: 8.601 min
Delta R.T.: -0.001 min
Response: 803882
Conc: 5.29 ug/ml



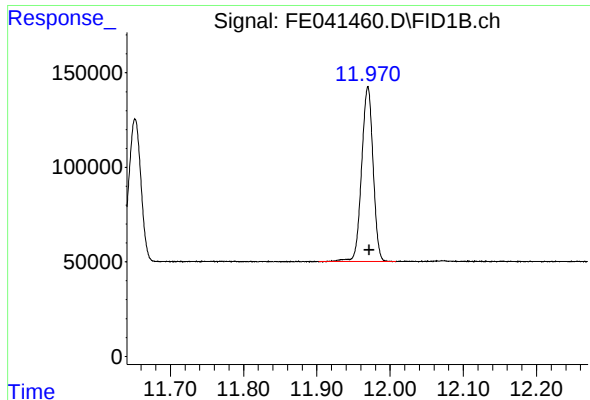
#7 n-Hexadecane (C16)

R.T.: 10.208 min
Delta R.T.: -0.002 min
Response: 853397
Conc: 5.35 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.652 min
Delta R.T.: -0.002 min
Response: 875757
Conc: 5.34 ug/ml



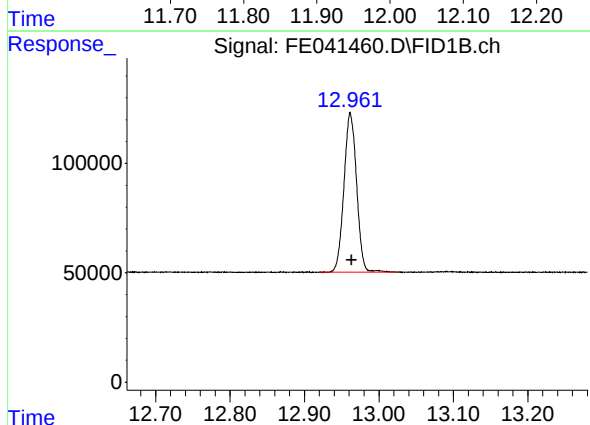
#9 ortho-Terphenyl (SURR)

R.T.: 11.970 min
Delta R.T.: -0.002 min
Response: 1008438
Conc: 5.38 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

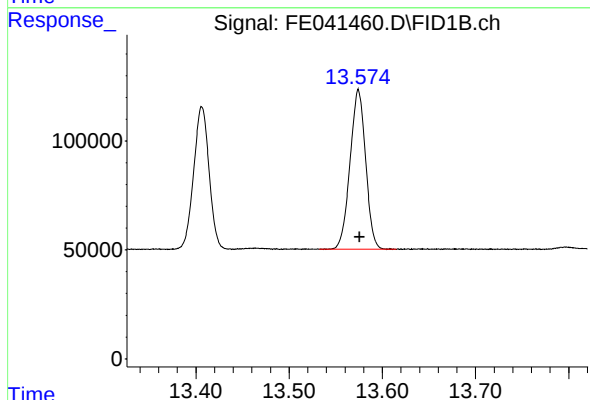
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/21/2023
Supervised By :Ankita Jodhani 04/21/2023



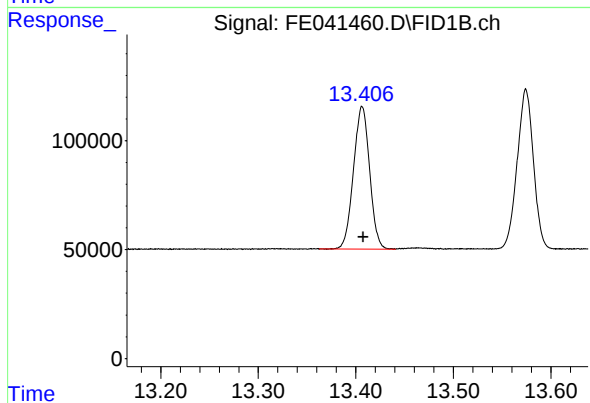
#10 n-Eicosane (C20)

R.T.: 12.962 min
Delta R.T.: -0.002 min
Response: 862696
Conc: 5.36 ug/ml



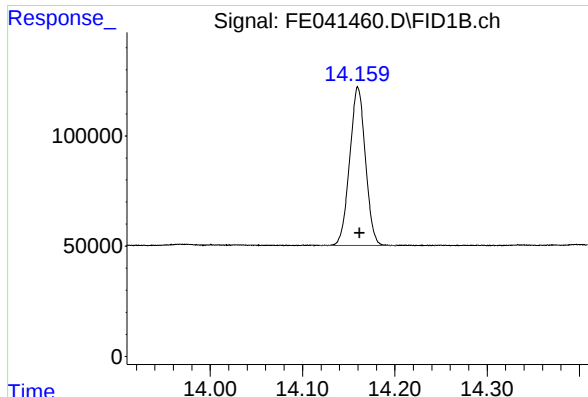
#11 n-Heneicosane (C21)

R.T.: 13.574 min
Delta R.T.: -0.001 min
Response: 852239
Conc: 5.35 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.406 min
Delta R.T.: -0.001 min
Response: 752185
Conc: 5.32 ug/ml



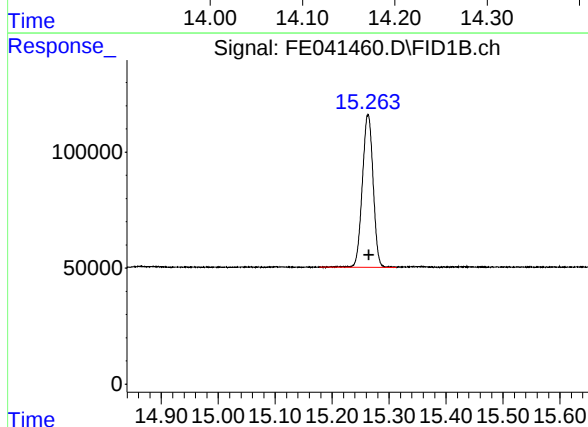
#13 n-Docosane (C22)

R.T.: 14.160 min
Delta R.T.: -0.002 min
Response: 848604
Conc: 5.33 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

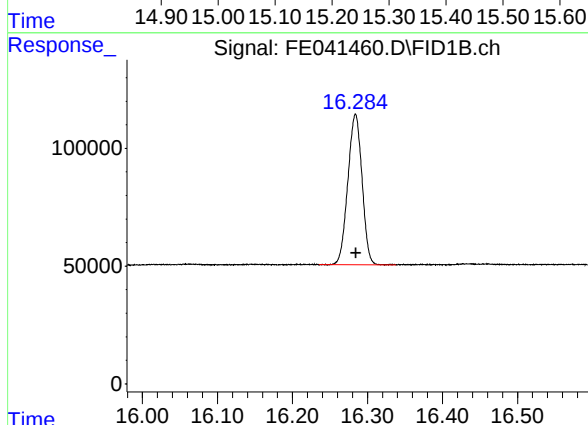
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/21/2023
Supervised By :Ankita Jodhani 04/21/2023



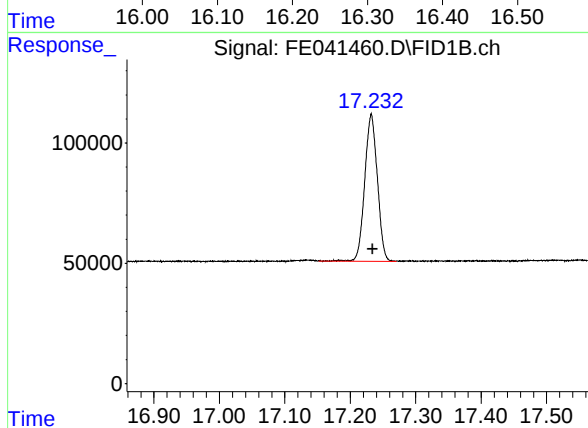
#14 n-Tetracosane (C24)

R.T.: 15.263 min
Delta R.T.: -0.002 min
Response: 864982
Conc: 5.37 ug/ml



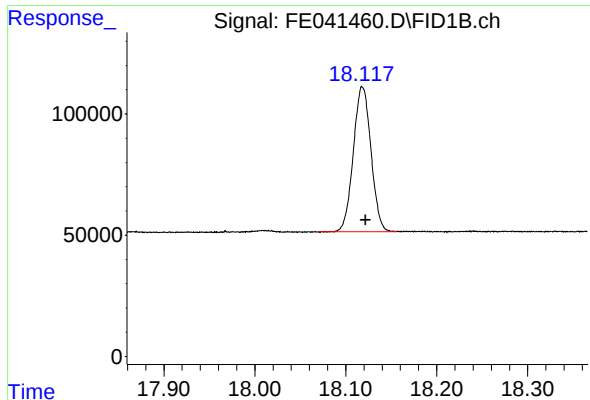
#15 n-Hexacosane (C26)

R.T.: 16.284 min
Delta R.T.: 0.000 min
Response: 839589
Conc: 5.31 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.232 min
Delta R.T.: -0.002 min
Response: 817992
Conc: 5.32 ug/ml



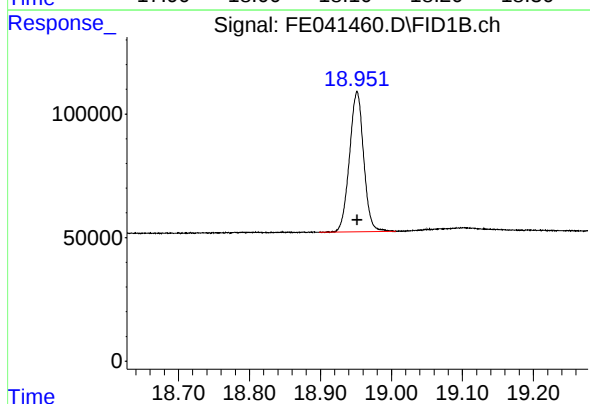
#17 n-Tricontane (C30)

R.T.: 18.118 min
Delta R.T.: -0.003 min
Response: 807994
Conc: 5.31 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

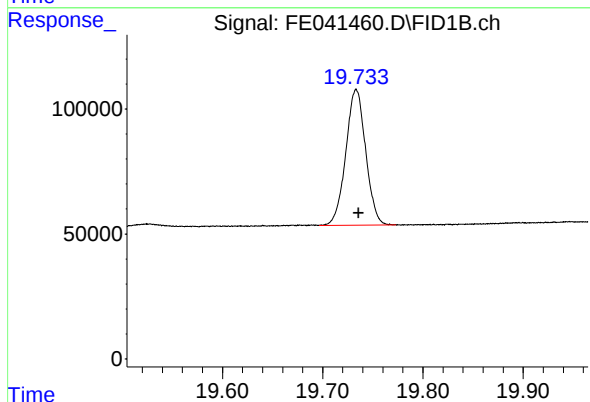
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/21/2023
Supervised By :Ankita Jodhani 04/21/2023



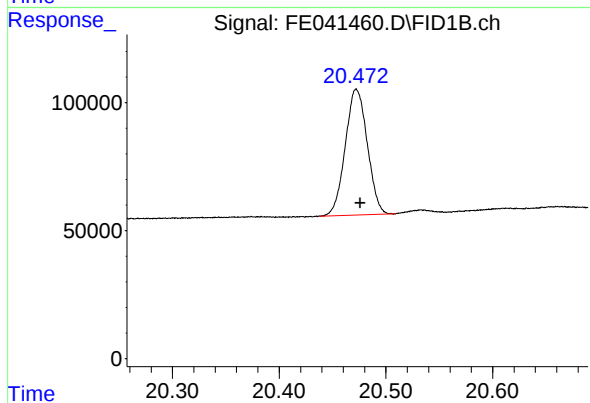
#18 n-Dotriacontane (C32)

R.T.: 18.952 min
Delta R.T.: 0.000 min
Response: 788055
Conc: 5.29 ug/ml



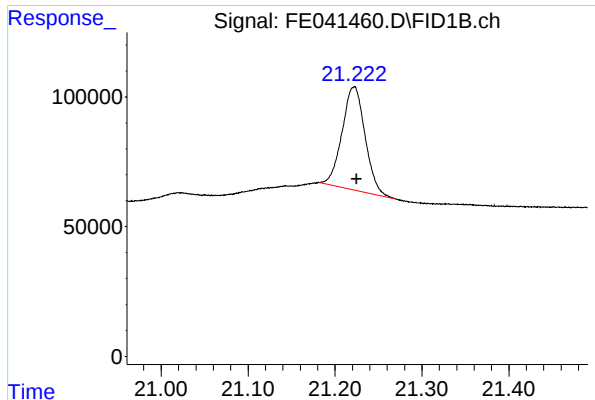
#19 n-Tetratriacontane (C34)

R.T.: 19.733 min
Delta R.T.: -0.003 min
Response: 746831
Conc: 5.30 ug/ml m



#20 n-Hexatriacontane (C36)

R.T.: 20.472 min
Delta R.T.: -0.004 min
Response: 705248
Conc: 5.27 ug/ml m



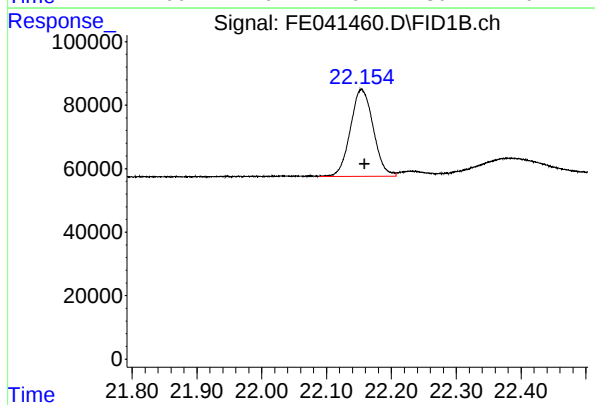
#21 n-Octatriacontane (C38)

R.T.: 21.222 min
Delta R.T.: -0.003 min
Response: 732000
Conc: 5.54 ug/ml

Instrument : FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/21/2023
Supervised By :Ankita Jodhani 04/21/2023



#22 n-Tetracontane (C40)

R.T.: 22.154 min
Delta R.T.: -0.005 min
Response: 669392
Conc: 5.29 ug/ml

rtres

Instrument :

FID_E

LabSampleId :

5 PPM ALIPHATIC HC STD5

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/21/2023

Supervised By :Ankita Jodhani 04/21/2023

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042123
Data File : FE041460.D
Signal(s) : FID1B.ch
Acq On : 20 Apr 2023 19:55
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 042123.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	3.356	3.314	3.389	BB	80897	784968	77.84%	4.421%
2	4.606	4.567	4.649	BB	82210	800958	79.43%	4.511%
3	6.308	6.269	6.346	BB	94432	883038	87.56%	4.974%
4	6.773	6.736	6.811	BB	80994	810742	80.40%	4.566%
5	7.404	7.356	7.434	BB	88062	858844	85.17%	4.837%
6	8.601	8.540	8.629	BB	77627	803882	79.72%	4.528%
7	10.208	10.117	10.260	BB	79798	853397	84.63%	4.807%
8	11.652	11.599	11.687	BB	75351	875757	86.84%	4.933%
9	11.970	11.903	12.008	BB	92654	1008438	100.00%	5.680%
10	12.962	12.920	13.023	BB	73053	862696	85.55%	4.859%
11	13.406	13.362	13.441	BV	65354	752185	74.59%	4.237%
12	13.574	13.532	13.615	BB	73342	852239	84.51%	4.800%
13	14.160	14.118	14.201	BB	71915	848604	84.15%	4.780%
14	15.263	15.177	15.312	BB	65892	864982	85.77%	4.872%
15	16.284	16.236	16.338	BB	64049	839589	83.26%	4.729%
16	17.232	17.152	17.270	BB	61162	817992	81.11%	4.607%
17	18.118	18.071	18.155	BB	59737	807994	80.12%	4.551%
18	18.952	18.898	19.006	BV	56855	788055	78.15%	4.439%
19	19.733	19.561	19.778	BB	54491	753245	74.69%	4.243%
20	20.472	20.296	20.509	BV	49481	708205	70.23%	3.989%
21	21.222	21.160	21.472	BB	39619	509492	50.52%	2.870%
22	22.154	22.088	22.207	BV	27299	669392	66.38%	3.770%
Sum of corrected areas:						17754693		

Aliphatic EPH 042123.M Fri Apr 21 05:15:22 2023

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042123AL\
 Data File : FE041461.D
 Signal(s) : FID1B.ch
 Acq On : 20 Apr 2023 20:25
 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: Apr 21 04:33:54 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 042123.M
 Quant Title : GC Extractables
 QLast Update : Fri Apr 21 04:32:36 2023
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.972	3791903	20.212 ug/ml
Spiked Amount 50.000		Recovery =	40.42%
12) S 1-chlorooctadecane (S...	13.408	2860213	20.247 ug/ml
Spiked Amount 50.000		Recovery =	40.49%
Target Compounds			
1) T n-Nonane (C9)	3.355	2985990	20.313 ug/ml
2) T n-Decane (C10)	4.606	3047307	20.318 ug/ml
3) T A~Naphthalene (C11.7)	6.308	3358906	20.297 ug/ml
4) T n-Dodecane (C12)	6.774	3089191	20.318 ug/ml
5) T A~2-methylnaphthalene...	7.404	3275584	20.314 ug/ml
6) T n-Tetradecane (C14)	8.602	3091701	20.353 ug/ml
7) T n-Hexadecane (C16)	10.210	3237963	20.290 ug/ml
8) T n-Octadecane (C18)	11.654	3326921	20.297 ug/ml
10) T n-Eicosane (C20)	12.963	3254893	20.236 ug/ml
11) T n-Heneicosane (C21)	13.575	3227132	20.249 ug/ml
13) T n-Docosane (C22)	14.162	3227481	20.257 ug/ml
14) T n-Tetracosane (C24)	15.265	3246302	20.136 ug/ml
15) T n-Hexacosane (C26)	16.285	3191239	20.185 ug/ml
16) T n-Octacosane (C28)	17.234	3103807	20.171 ug/ml
17) T n-Tricontane (C30)	18.120	3076516	20.200 ug/ml
18) T n-Dotriacontane (C32)	18.953	3026146	20.313 ug/ml
19) T n-Tetratriacontane (C34)	19.735	2845273	20.197 ug/ml
20) T n-Hexatriacontane (C36)	20.473	2742293	20.506 ug/ml
21) T n-Octatriacontane (C38)	21.223	2627003	19.881 ug/ml
22) T n-Tetracontane (C40)	22.158	2548657	20.130 ug/ml

(f)=RT Delta > 1/2 Window

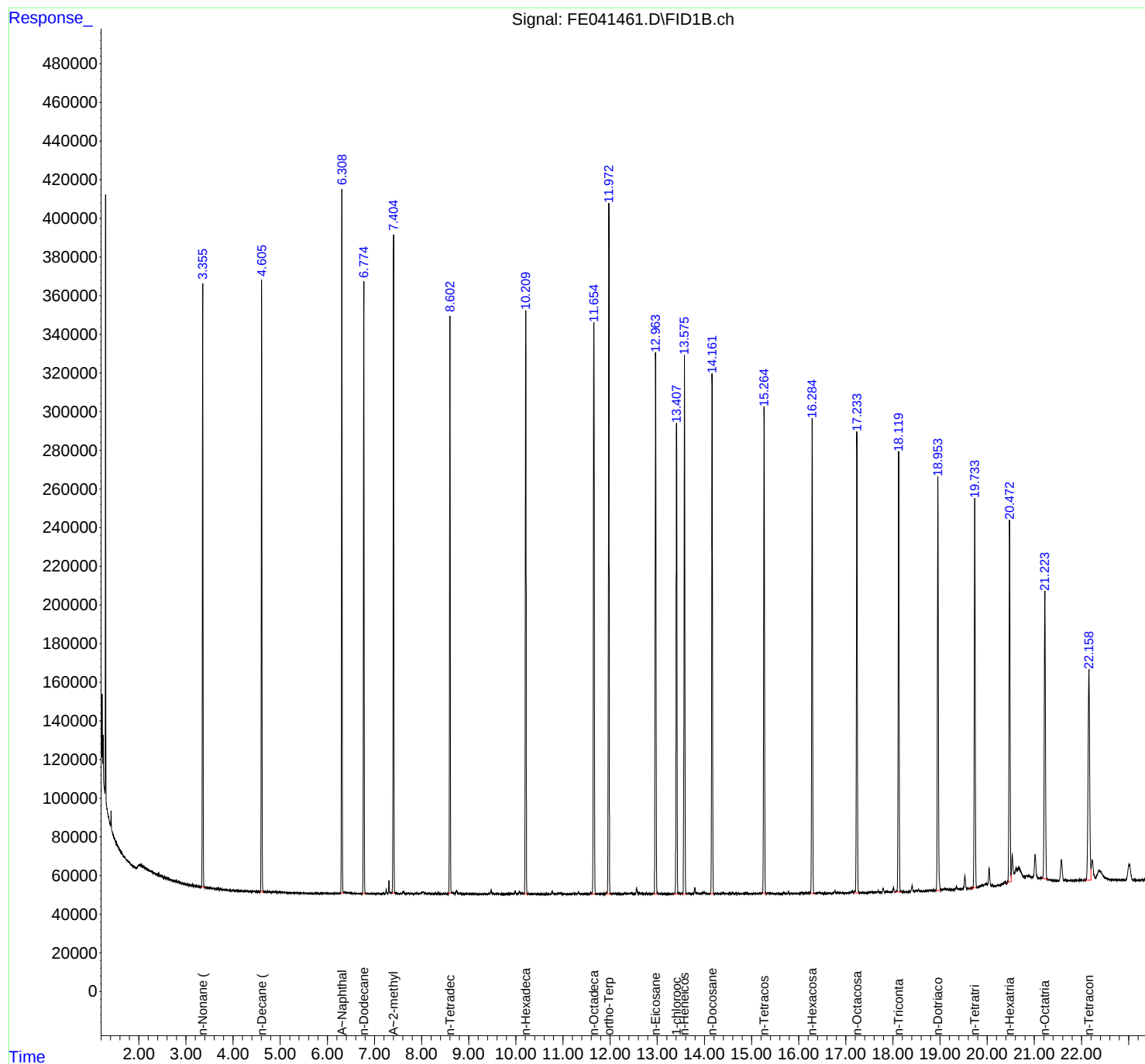
(m)=manual int.

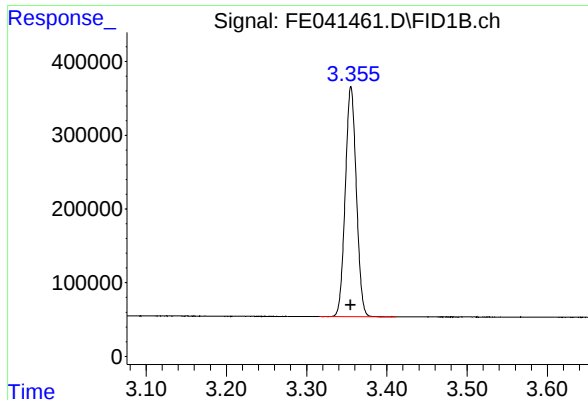
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042123AL\
Data File : FE041461.D
Signal(s) : FID1B.ch
Acq On : 20 Apr 2023 20:25
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Apr 21 04:33:54 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 042123.M
Quant Title : GC Extractables
QLast Update : Fri Apr 21 04:32:36 2023
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)

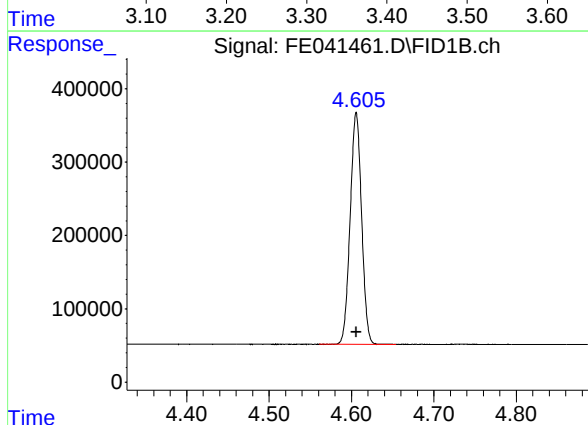
R.T.: 3.355 min
Delta R.T.: 0.000 min
Response: 2985990
Conc: 20.31 ug/ml

Instrument :

FID_E

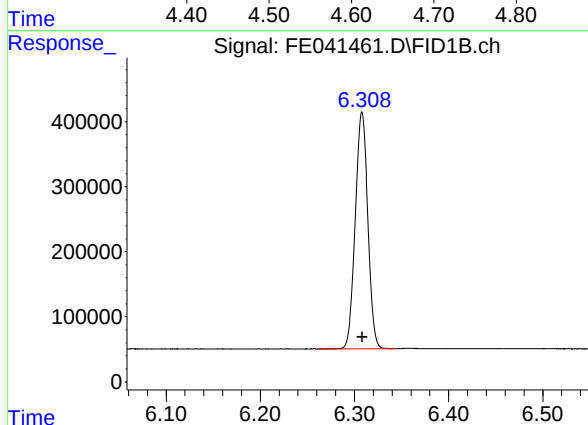
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



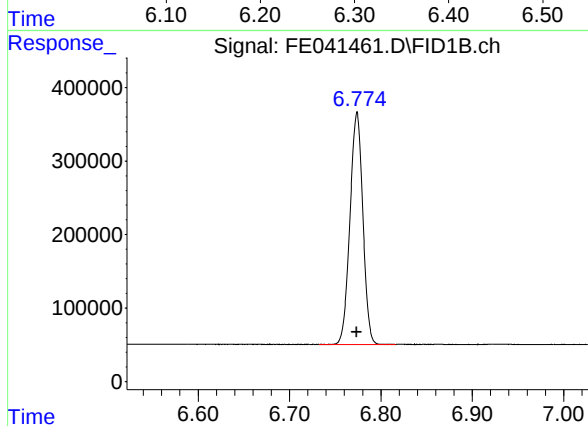
#2 n-Decane (C10)

R.T.: 4.606 min
Delta R.T.: 0.000 min
Response: 3047307
Conc: 20.32 ug/ml



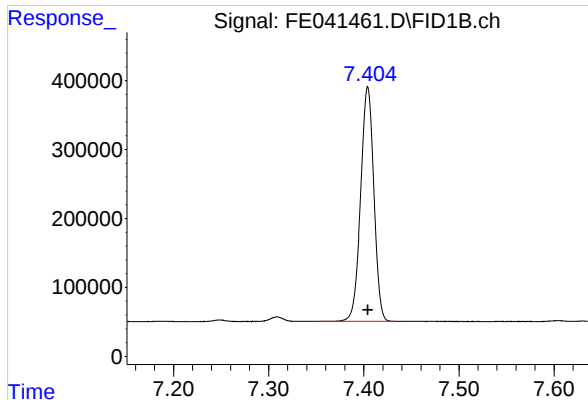
#3 A~Naphthalene (C11.7)

R.T.: 6.308 min
Delta R.T.: 0.000 min
Response: 3358906
Conc: 20.30 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.774 min
Delta R.T.: 0.000 min
Response: 3089191
Conc: 20.32 ug/ml



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

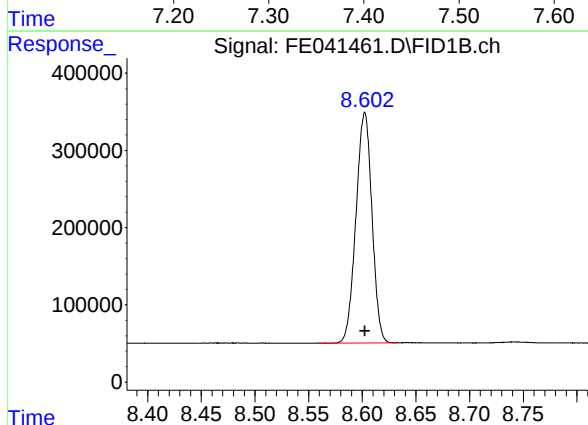
R.T.: 7.404 min
Delta R.T.: 0.000 min
Response: 3275584
Conc: 20.31 ug/ml

Instrument :

FID_E

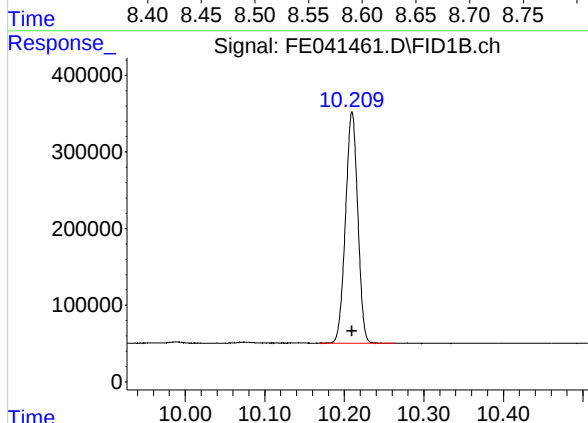
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



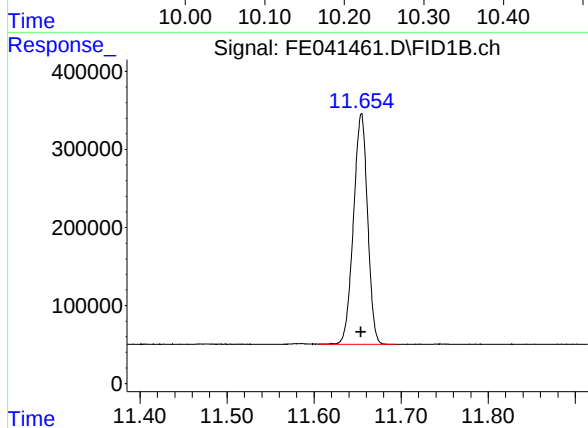
#6 n-Tetradecane (C14)

R.T.: 8.602 min
Delta R.T.: 0.000 min
Response: 3091701
Conc: 20.35 ug/ml



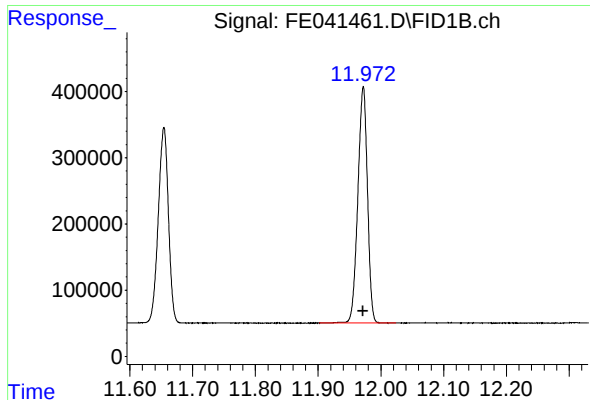
#7 n-Hexadecane (C16)

R.T.: 10.210 min
Delta R.T.: 0.000 min
Response: 3237963
Conc: 20.29 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.654 min
Delta R.T.: 0.000 min
Response: 3326921
Conc: 20.30 ug/ml



#9 ortho-Terphenyl (SURR)

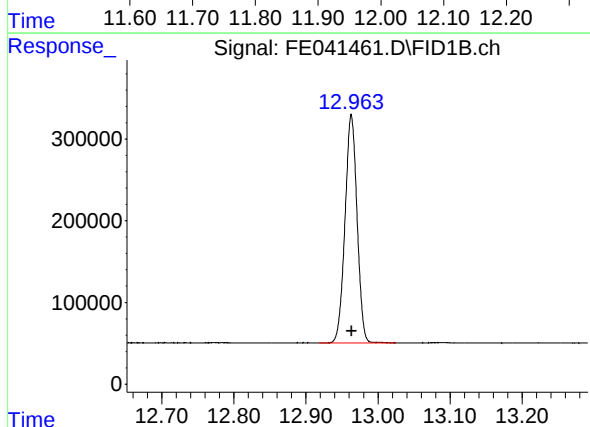
R.T.: 11.972 min
Delta R.T.: 0.000 min
Response: 3791903
Conc: 20.21 ug/ml

Instrument :

FID_E

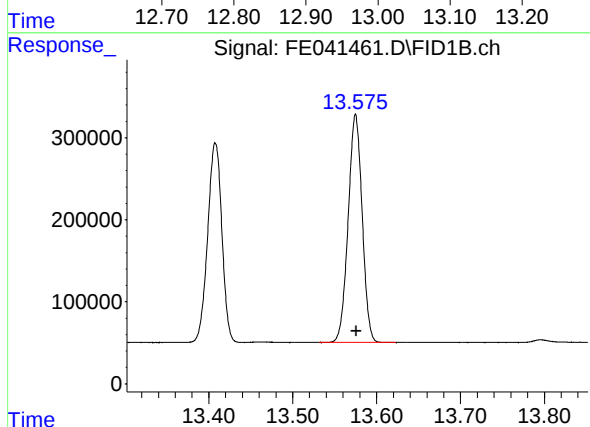
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



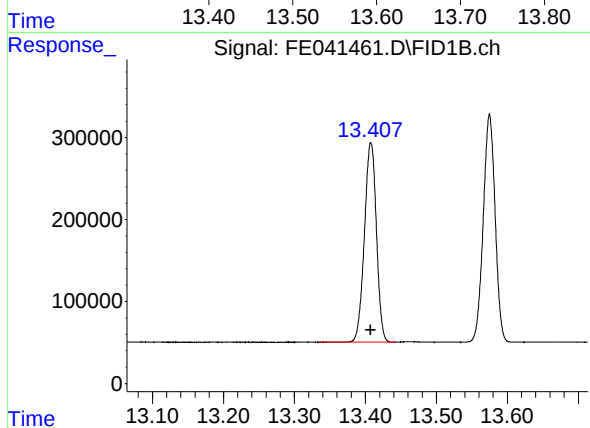
#10 n-Eicosane (C20)

R.T.: 12.963 min
Delta R.T.: 0.000 min
Response: 3254893
Conc: 20.24 ug/ml



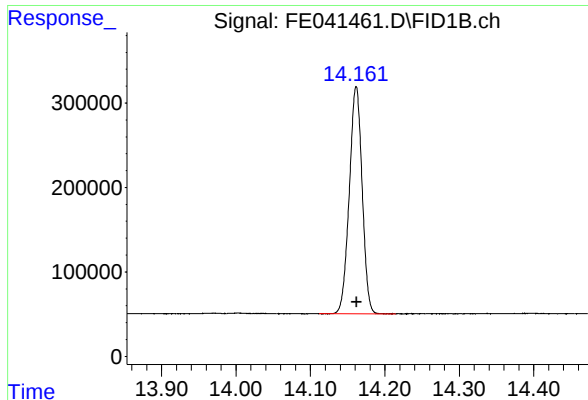
#11 n-Heneicosane (C21)

R.T.: 13.575 min
Delta R.T.: 0.000 min
Response: 3227132
Conc: 20.25 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.408 min
Delta R.T.: 0.000 min
Response: 2860213
Conc: 20.25 ug/ml



#13 n-Docosane (C22)

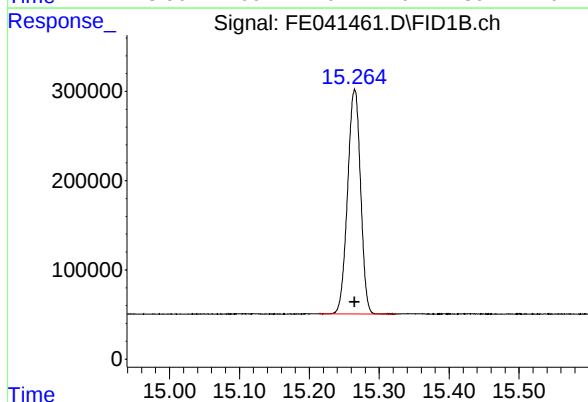
R.T.: 14.162 min
Delta R.T.: 0.000 min
Response: 3227481
Conc: 20.26 ug/ml

Instrument :

FID_E

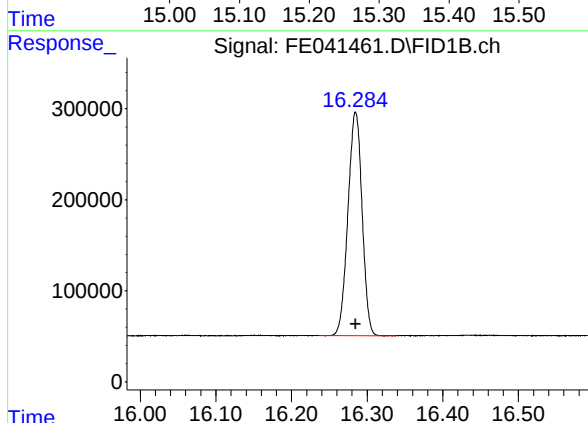
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



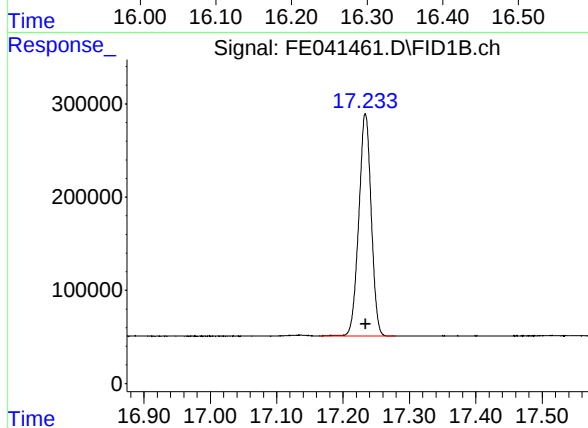
#14 n-Tetracosane (C24)

R.T.: 15.265 min
Delta R.T.: 0.000 min
Response: 3246302
Conc: 20.14 ug/ml



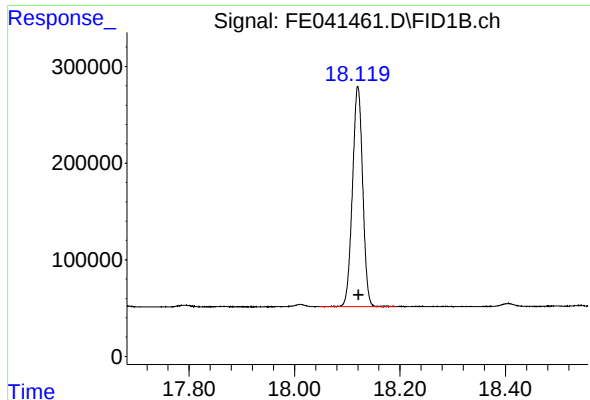
#15 n-Hexacosane (C26)

R.T.: 16.285 min
Delta R.T.: 0.000 min
Response: 3191239
Conc: 20.19 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.234 min
Delta R.T.: 0.000 min
Response: 3103807
Conc: 20.17 ug/ml



#17 n-Tricontane (C30)

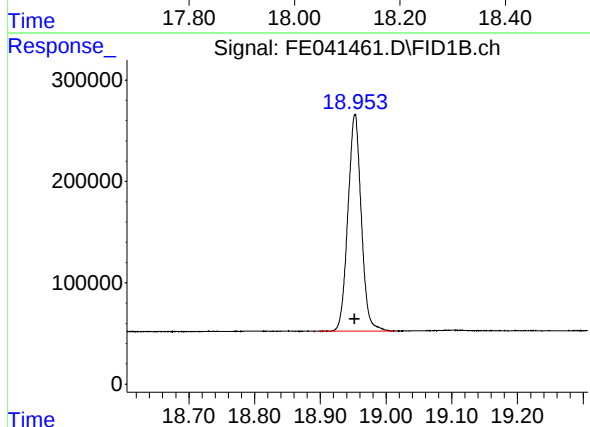
R.T.: 18.120 min
Delta R.T.: -0.001 min
Response: 3076516
Conc: 20.20 ug/ml

Instrument :

FID_E

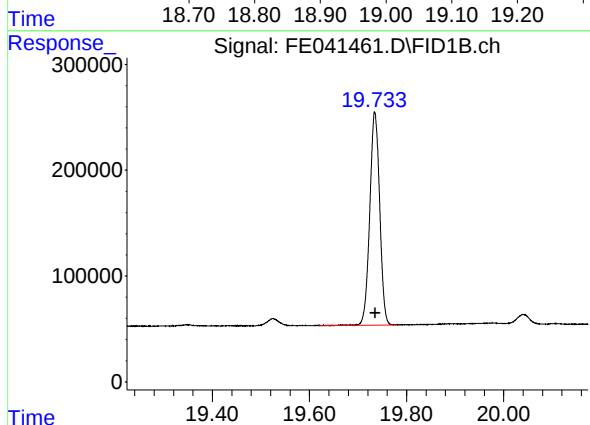
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



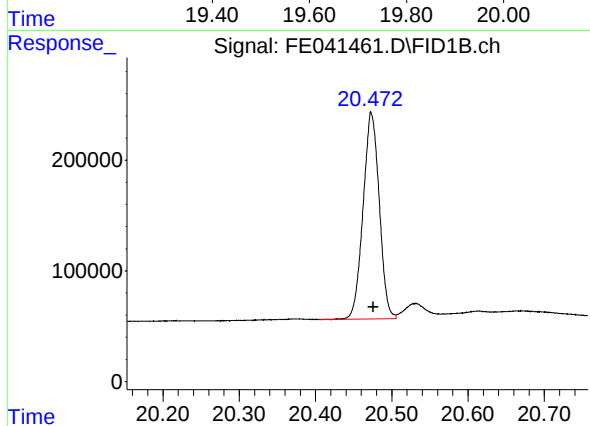
#18 n-Dotriacontane (C32)

R.T.: 18.953 min
Delta R.T.: 0.000 min
Response: 3026146
Conc: 20.31 ug/ml



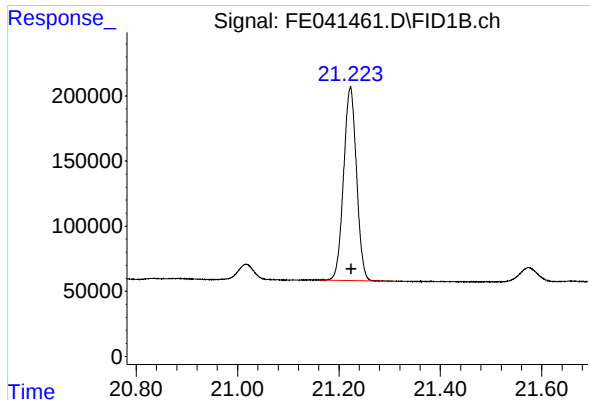
#19 n-Tetatriacontane (C34)

R.T.: 19.735 min
Delta R.T.: -0.001 min
Response: 2845273
Conc: 20.20 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.473 min
Delta R.T.: -0.003 min
Response: 2742293
Conc: 20.51 ug/ml



#21 n-Octatriacontane (C38)

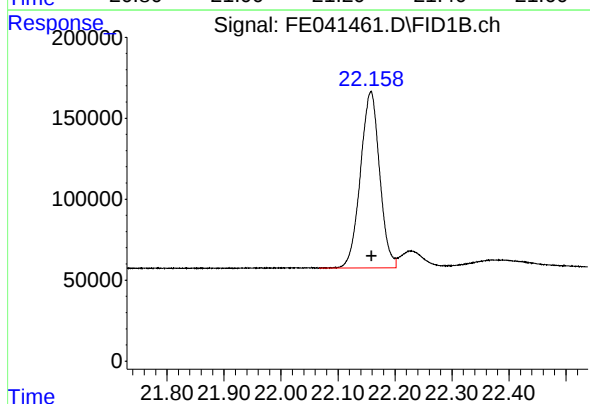
R.T.: 21.223 min
Delta R.T.: -0.002 min
Response: 2627003
Conc: 19.88 ug/ml

Instrument :

FID_E

ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 22.158 min
Delta R.T.: 0.000 min
Response: 2548657
Conc: 20.13 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042123AL\
 Data File : FE041461.D
 Signal(s) : FID1B.ch
 Acq On : 20 Apr 2023 20:25
 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 042123.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	3.355	3.316	3.411	BB	312358	2985990	78.75%	4.379%
2	4.606	4.561	4.654	BB	316251	3047307	80.36%	4.469%
3	6.308	6.262	6.344	BV	364075	3358906	88.58%	4.926%
4	6.774	6.732	6.816	BB	316311	3089191	81.47%	4.531%
5	7.404	7.353	7.434	BB	340306	3275584	86.38%	4.804%
6	8.602	8.560	8.631	BV	298506	3091701	81.53%	4.534%
7	10.210	10.168	10.265	BB	301936	3237963	85.39%	4.749%
8	11.654	11.606	11.694	VB	296054	3326921	87.74%	4.879%
9	11.972	11.901	12.024	BB	357213	3791903	100.00%	5.561%
10	12.963	12.918	13.025	BB	280094	3254893	85.84%	4.774%
11	13.408	13.335	13.443	BV	242956	2860213	75.43%	4.195%
12	13.575	13.531	13.623	BB	278380	3227132	85.11%	4.733%
13	14.162	14.111	14.215	BB	269267	3227481	85.12%	4.734%
14	15.265	15.214	15.324	BB	251574	3246302	85.61%	4.761%
15	16.285	16.236	16.338	BB	245591	3191239	84.16%	4.680%
16	17.234	17.164	17.280	BB	238316	3103807	81.85%	4.552%
17	18.120	18.046	18.192	BB	227840	3076516	81.13%	4.512%
18	18.953	18.898	19.015	BV	213509	3026146	79.81%	4.438%
19	19.735	19.620	19.778	BB	200679	2845273	75.04%	4.173%
20	20.473	20.405	20.506	BV	185997	2742293	72.32%	4.022%
21	21.223	21.161	21.312	BB	149143	2627003	69.28%	3.853%
22	22.158	22.067	22.202	BV	109188	2548657	67.21%	3.738%
Sum of corrected areas:						68182419		

Aliphatic EPH 042123.M Fri Apr 21 05:15:57 2023