

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE053025AL\  
 Data File : FE054089.D  
 Signal(s) : FID1B.ch  
 Acq On : 30 May 2025 09:29  
 Operator : YP\AJ  
 Sample : 20 PPM ALIPHATIC HC STD  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 FID\_E  
 ClientSampleId :  
 20 PPM ALIPHATIC HC STD

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/02/2025  
 Supervised By :mohammad ahmed 06/03/2025

Integration File: autoint1.e  
 Quant Time: May 30 22:52:34 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 051425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed May 14 12:15:41 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

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

| Compound                       | R.T.   | Response   | Conc Units    |
|--------------------------------|--------|------------|---------------|
| -----                          |        |            |               |
| System Monitoring Compounds    |        |            |               |
| 9) S ortho-Terphenyl (SURR)    | 11.850 | 2774568    | 17.073 ug/ml  |
| Spiked Amount 50.000           |        | Recovery = | 34.15%        |
| 12) S 1-chlorooctadecane (S... | 13.295 | 2096185    | 17.682 ug/ml  |
| Spiked Amount 50.000           |        | Recovery = | 35.36%        |
| Target Compounds               |        |            |               |
| 1) T n-Nonane (C9)             | 3.191  | 2176537    | 16.104 ug/mlm |
| 2) T n-Decane (C10)            | 4.455  | 2068467    | 15.307 ug/ml  |
| 3) T A~Naphthalene (C11.7)     | 6.173  | 2317044    | 16.123 ug/ml  |
| 4) T n-Dodecane (C12)          | 6.637  | 2200521    | 16.132 ug/mlm |
| 5) T A~2-methylnaphthalene...  | 7.276  | 2260958    | 16.300 ug/ml  |
| 6) T n-Tetradecane (C14)       | 8.473  | 2196927    | 16.280 ug/ml  |
| 7) T n-Hexadecane (C16)        | 10.086 | 2259911    | 16.748 ug/ml  |
| 8) T n-Octadecane (C18)        | 11.534 | 2290842    | 17.012 ug/ml  |
| 10) T n-Eicosane (C20)         | 12.848 | 2268488    | 17.260 ug/ml  |
| 11) T n-Heneicosane (C21)      | 13.462 | 2239968    | 17.278 ug/ml  |
| 13) T n-Docosane (C22)         | 14.050 | 2240921    | 17.565 ug/ml  |
| 14) T n-Tetracosane (C24)      | 15.157 | 2237573    | 17.884 ug/ml  |
| 15) T n-Hexacosane (C26)       | 16.181 | 2196243    | 17.936 ug/ml  |
| 16) T n-Octacosane (C28)       | 17.133 | 2168896    | 17.842 ug/ml  |
| 17) T n-Tricontane (C30)       | 18.022 | 2245142    | 18.024 ug/mlm |
| 18) T n-Dotriacontane (C32)    | 18.858 | 2289920    | 18.311 ug/ml  |
| 19) T n-Tetratriacontane (C34) | 19.643 | 2162123    | 18.151 ug/mlm |
| 20) T n-Hexatriacontane (C36)  | 20.384 | 2271328    | 19.616 ug/mlm |
| 21) T n-Octatriacontane (C38)  | 21.118 | 2173296    | 19.970 ug/mlm |
| 22) T n-Tetracontane (C40)     | 22.017 | 2016205    | 20.318 ug/mlm |
| -----                          |        |            |               |

(f)=RT Delta > 1/2 Window

(m)=manual int.

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Operator : YP\AJ  
Sample : 20 PPM ALIPHATIC HC STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

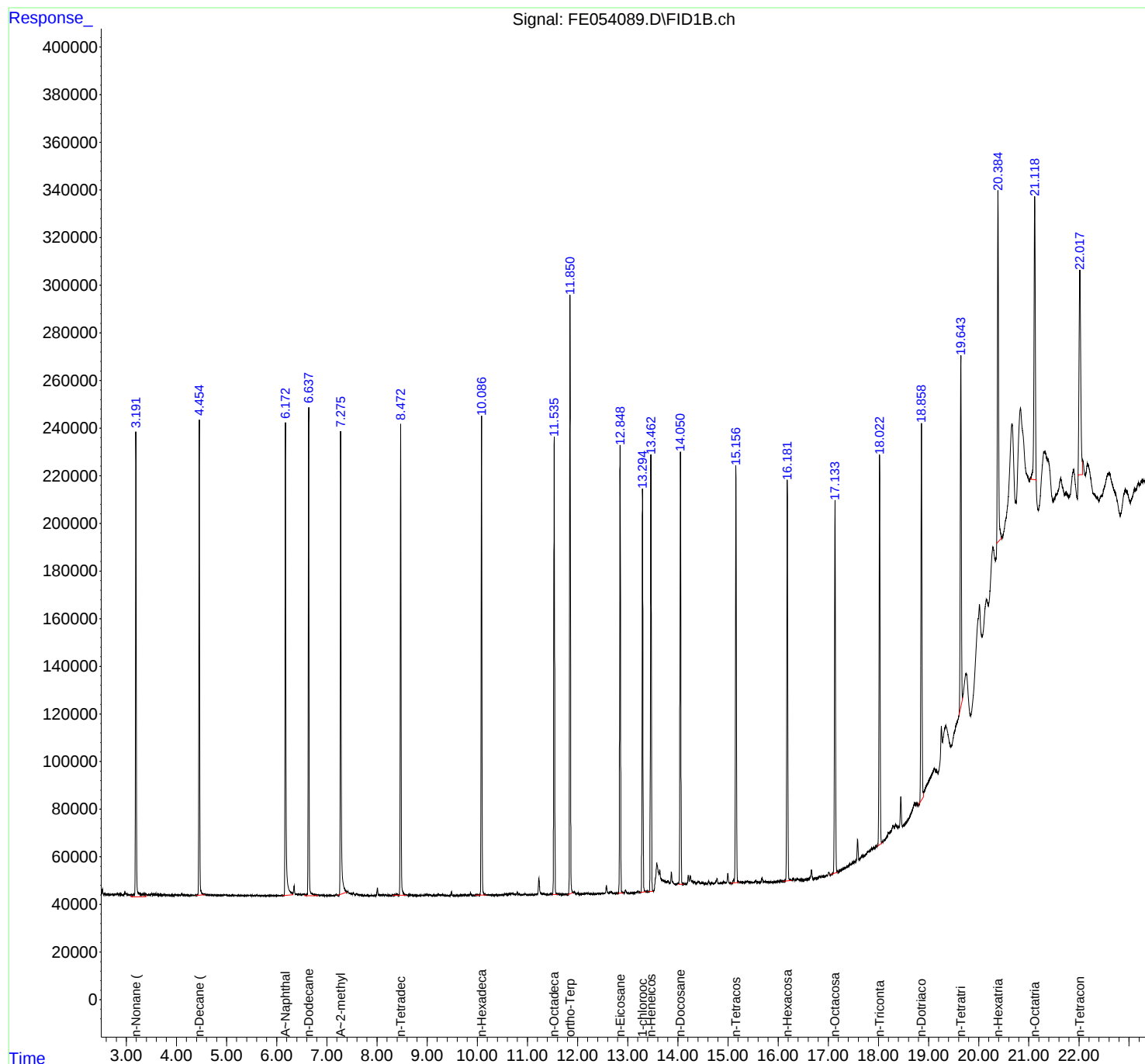
Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

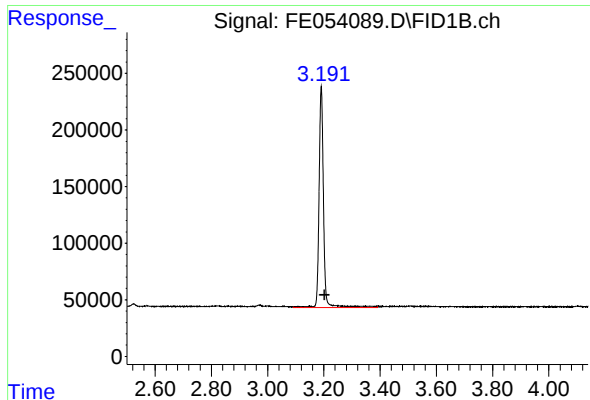
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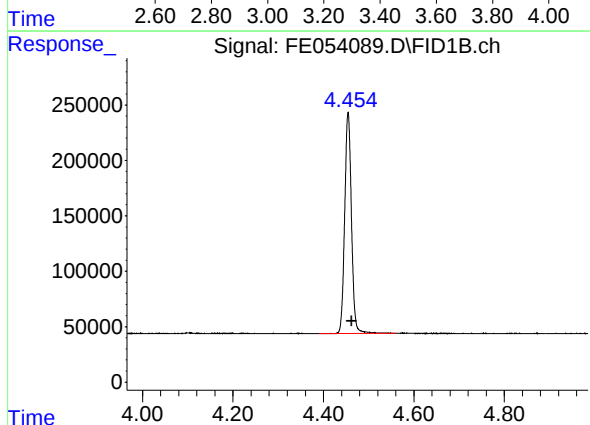
#1 n-Nonane (C9)

R.T.: 3.191 min  
Delta R.T.: -0.011 min  
Response: 2176537  
Conc: 16.10 ug/ml

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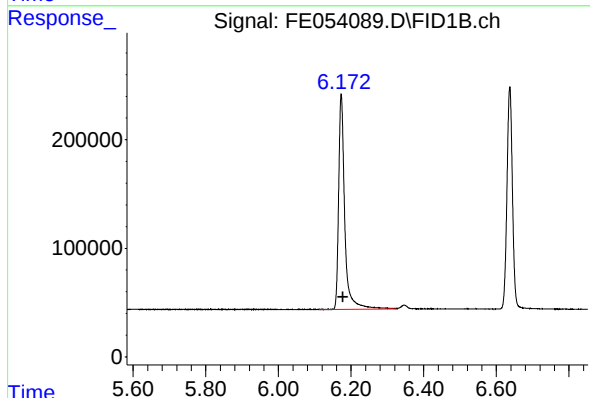
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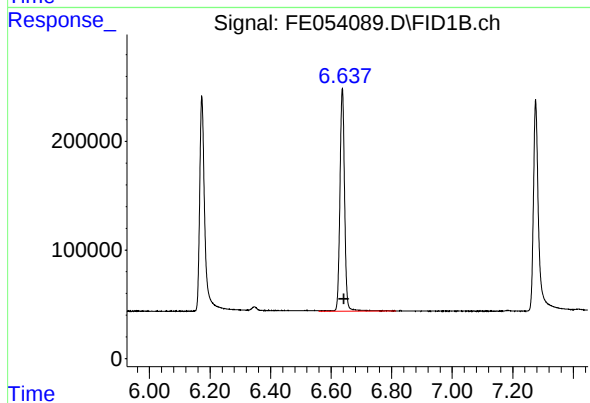
#2 n-Decane (C10)

R.T.: 4.455 min  
Delta R.T.: -0.008 min  
Response: 2068467  
Conc: 15.31 ug/ml



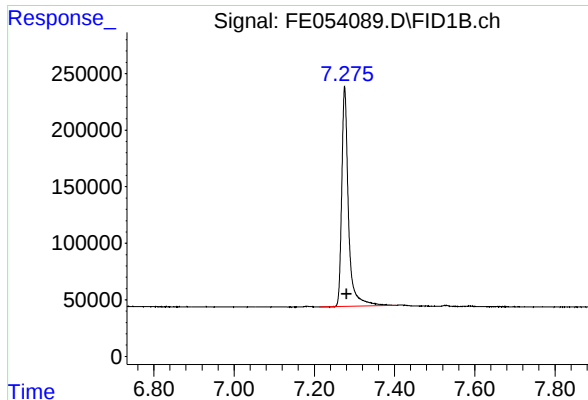
#3 A~Naphthalene (C11.7)

R.T.: 6.173 min  
Delta R.T.: -0.005 min  
Response: 2317044  
Conc: 16.12 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.637 min  
Delta R.T.: -0.005 min  
Response: 2200521  
Conc: 16.13 ug/ml m



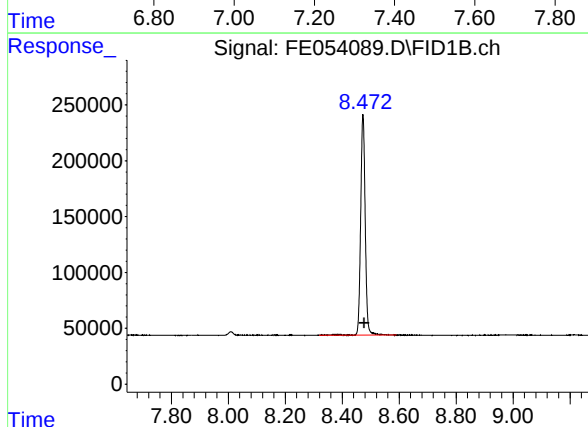
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.276 min  
Delta R.T.: -0.004 min  
Response: 2260958  
Conc: 16.30 ug/ml

Instrument : FID\_E  
ClientSampleId : 20 PPM ALIPHATIC HC STD

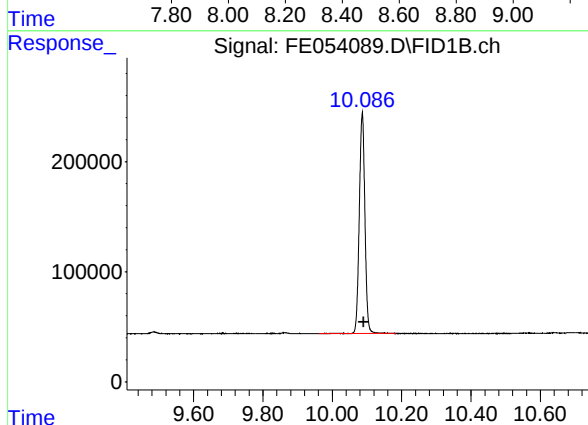
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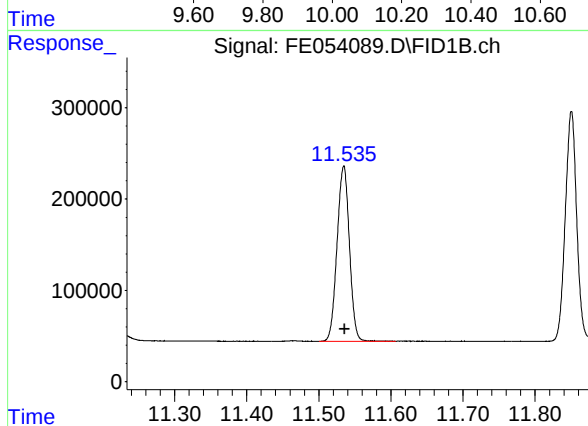
#6 n-Tetradecane (C14)

R.T.: 8.473 min  
Delta R.T.: -0.004 min  
Response: 2196927  
Conc: 16.28 ug/ml



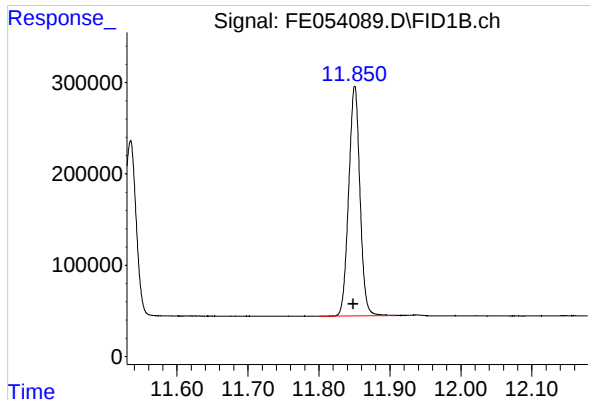
#7 n-Hexadecane (C16)

R.T.: 10.086 min  
Delta R.T.: -0.003 min  
Response: 2259911  
Conc: 16.75 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.534 min  
Delta R.T.: -0.001 min  
Response: 2290842  
Conc: 17.01 ug/ml



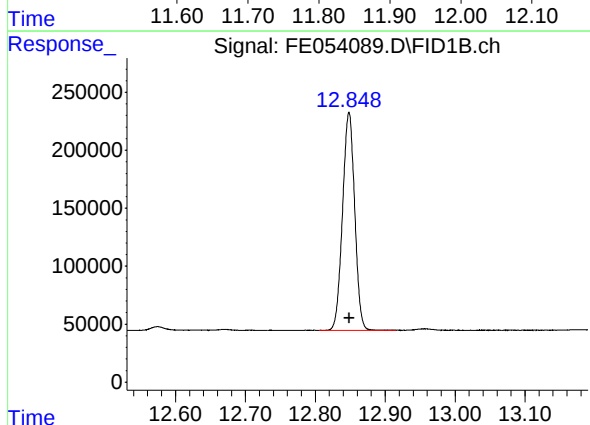
#9 ortho-Terphenyl (SURR)

R.T.: 11.850 min  
Delta R.T.: 0.002 min  
Response: 2774568  
Conc: 17.07 ug/ml

Instrument :  
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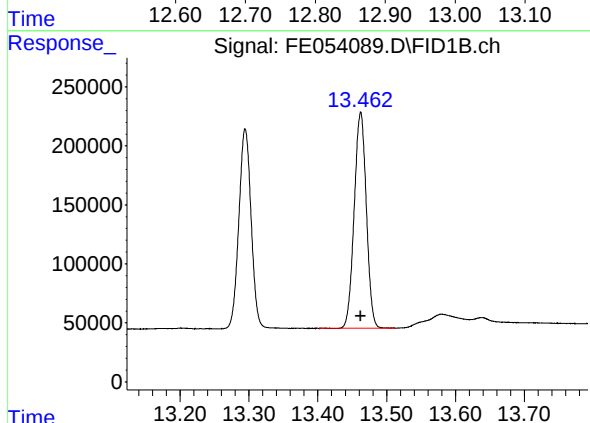
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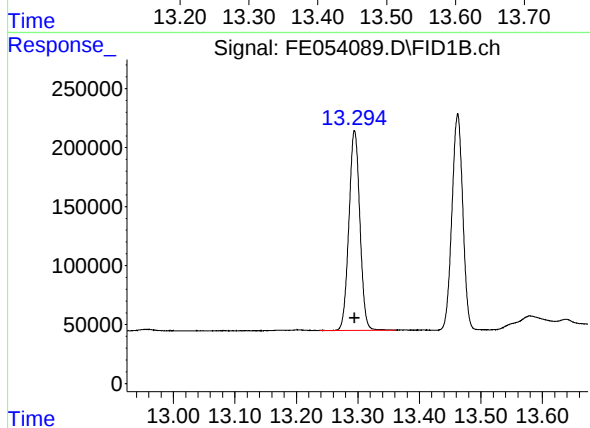
#10 n-Eicosane (C20)

R.T.: 12.848 min  
Delta R.T.: 0.000 min  
Response: 2268488  
Conc: 17.26 ug/ml



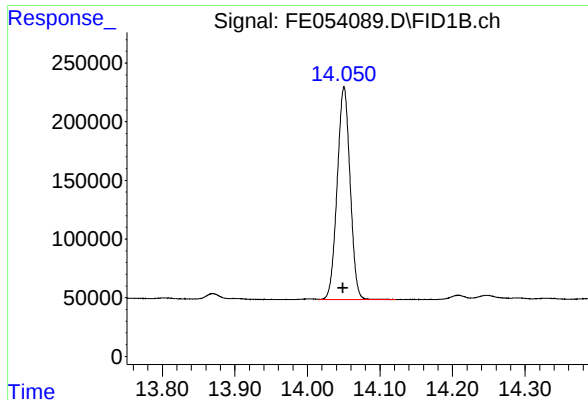
#11 n-Heneicosane (C21)

R.T.: 13.462 min  
Delta R.T.: 0.000 min  
Response: 2239968  
Conc: 17.28 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.295 min  
Delta R.T.: 0.000 min  
Response: 2096185  
Conc: 17.68 ug/ml



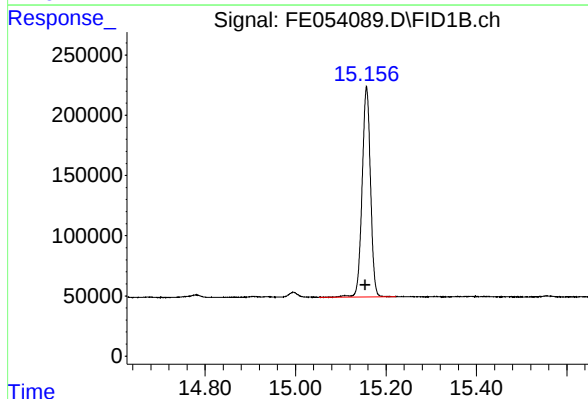
#13 n-Docosane (C22)

R.T.: 14.050 min  
Delta R.T.: 0.001 min  
Response: 2240921  
Conc: 17.57 ug/ml

Instrument :  
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20 PPM ALIPHATIC HC STD

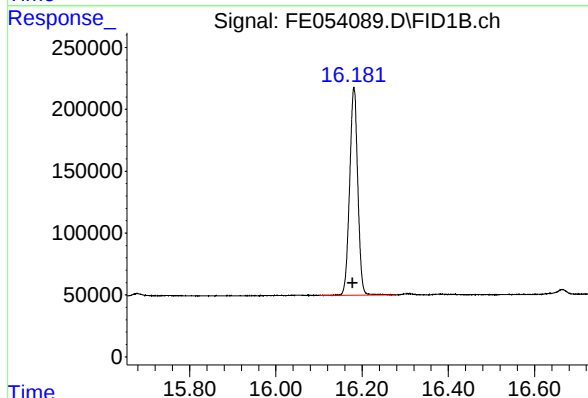
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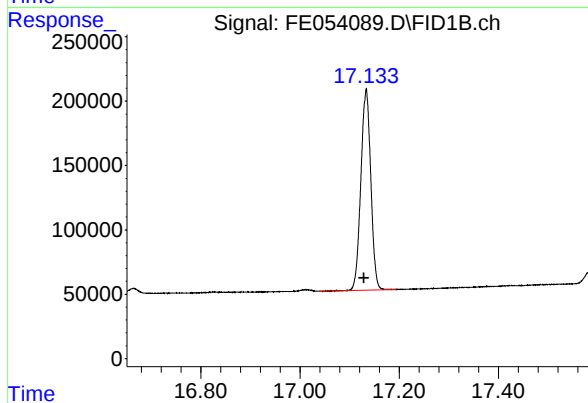
#14 n-Tetracosane (C24)

R.T.: 15.157 min  
Delta R.T.: 0.002 min  
Response: 2237573  
Conc: 17.88 ug/ml



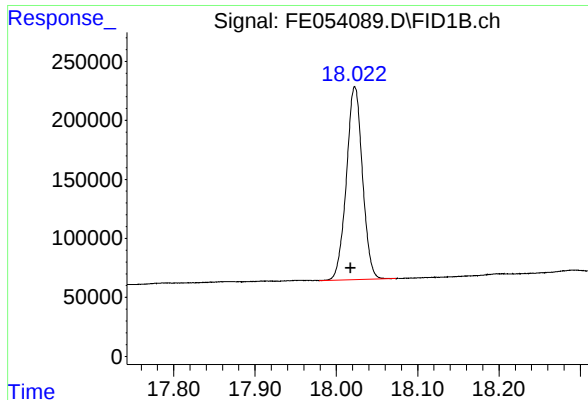
#15 n-Hexacosane (C26)

R.T.: 16.181 min  
Delta R.T.: 0.003 min  
Response: 2196243  
Conc: 17.94 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.133 min  
Delta R.T.: 0.005 min  
Response: 2168896  
Conc: 17.84 ug/ml



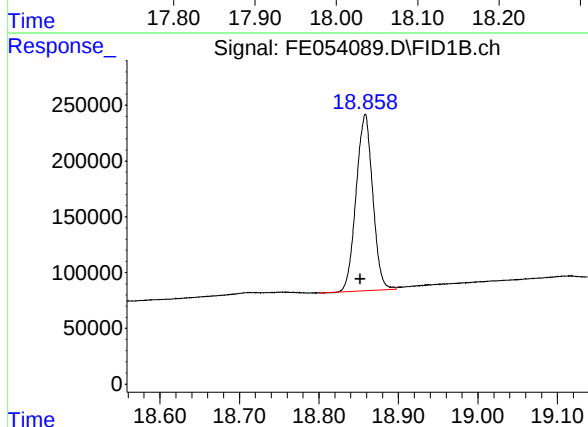
#17 n-Tricontane (C30)

R.T.: 18.022 min  
Delta R.T.: 0.004 min  
Response: 2245142  
Conc: 18.02 ug/ml

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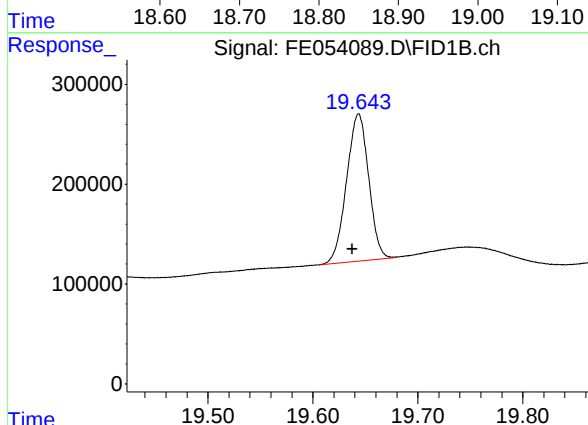
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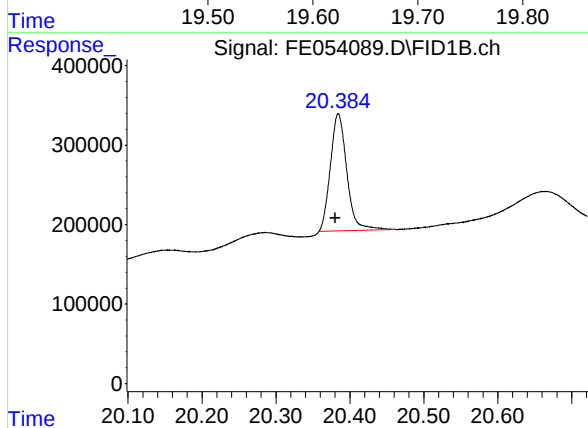
#18 n-Dotriacontane (C32)

R.T.: 18.858 min  
Delta R.T.: 0.006 min  
Response: 2289920  
Conc: 18.31 ug/ml



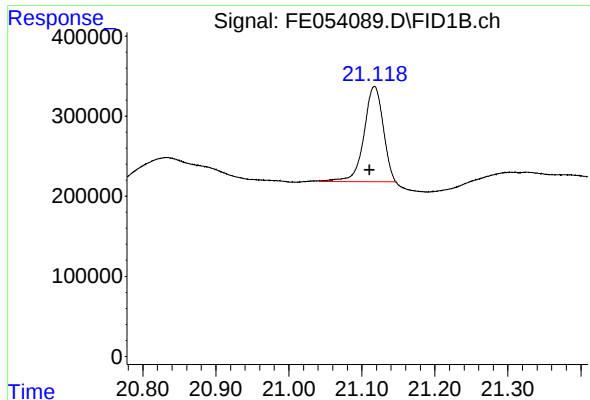
#19 n-Tetratriacontane (C34)

R.T.: 19.643 min  
Delta R.T.: 0.006 min  
Response: 2162123  
Conc: 18.15 ug/ml m



#20 n-Hexatriacontane (C36)

R.T.: 20.384 min  
Delta R.T.: 0.004 min  
Response: 2271328  
Conc: 19.62 ug/ml m



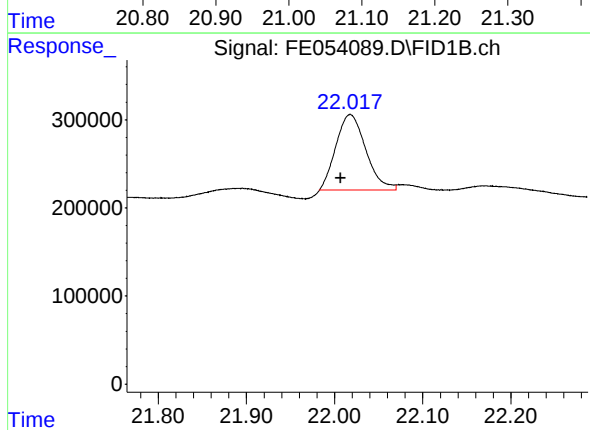
#21 n-Octatriacontane (C38)

R.T.: 21.118 min  
Delta R.T.: 0.007 min  
Response: 2173296  
Conc: 19.97 ug/ml

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#22 n-Tetracontane (C40)

R.T.: 22.017 min  
Delta R.T.: 0.011 min  
Response: 2016205  
Conc: 20.32 ug/ml m