

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE040925AL\  
 Data File : FE053274.D  
 Signal(s) : FID1B.ch  
 Acq On : 09 Apr 2025 11:40  
 Operator : YP\AJ  
 Sample : 20 PPM ALIPHATIC HC STD  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

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

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 04/10/2025  
 Supervised By :mohammad ahmed 04/11/2025

Integration File: autoint1.e  
 Quant Time: Apr 10 02:58:18 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 032925.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Mar 31 02:44:53 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)    | 11.885 | 2906593    | 17.845 ug/ml  |
| Spiked Amount 50.000           |        | Recovery = | 35.69%        |
| 12) S 1-chlorooctadecane (S... | 13.330 | 2241425    | 18.672 ug/ml  |
| Spiked Amount 50.000           |        | Recovery = | 37.34%        |
| Target Compounds               |        |            |               |
| 1) T n-Nonane (C9)             | 3.235  | 2689597    | 17.370 ug/ml  |
| 2) T n-Decane (C10)            | 4.495  | 2843103    | 18.125 ug/ml  |
| 3) T A~Naphthalene (C11.7)     | 6.206  | 2987734    | 17.785 ug/ml  |
| 4) T n-Dodecane (C12)          | 6.674  | 2867925    | 18.337 ug/ml  |
| 5) T A~2-methylnaphthalene...  | 7.308  | 2861181    | 17.932 ug/ml  |
| 6) T n-Tetradecane (C14)       | 8.510  | 2827439    | 18.466 ug/ml  |
| 7) T n-Hexadecane (C16)        | 10.123 | 2874049    | 18.645 ug/ml  |
| 8) T n-Octadecane (C18)        | 11.571 | 2830033    | 18.660 ug/ml  |
| 10) T n-Eicosane (C20)         | 12.884 | 2667836    | 18.712 ug/ml  |
| 11) T n-Heneicosane (C21)      | 13.498 | 2567561    | 18.502 ug/ml  |
| 13) T n-Docosane (C22)         | 14.085 | 2595178    | 18.949 ug/ml  |
| 14) T n-Tetracosane (C24)      | 15.192 | 2721601    | 20.151 ug/ml  |
| 15) T n-Hexacosane (C26)       | 16.215 | 2758553    | 20.678 ug/ml  |
| 16) T n-Octacosane (C28)       | 17.167 | 2844661    | 21.556 ug/ml  |
| 17) T n-Tricontane (C30)       | 18.056 | 2968570    | 21.902 ug/ml  |
| 18) T n-Dotriacontane (C32)    | 18.890 | 2917284    | 21.680 ug/ml  |
| 19) T n-Tetratriacontane (C34) | 19.675 | 2597067    | 20.071 ug/ml  |
| 20) T n-Hexatriacontane (C36)  | 20.416 | 2208829    | 18.594 ug/ml  |
| 21) T n-Octatriacontane (C38)  | 21.153 | 1954374    | 17.004 ug/ml  |
| 22) T n-Tetracontane (C40)     | 22.061 | 1878523    | 16.726 ug/mlm |
| -----                          |        |            |               |

(f)=RT Delta > 1/2 Window

(m)=manual int.

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Misc :  
ALS Vial : 4 Sample Multiplier: 1

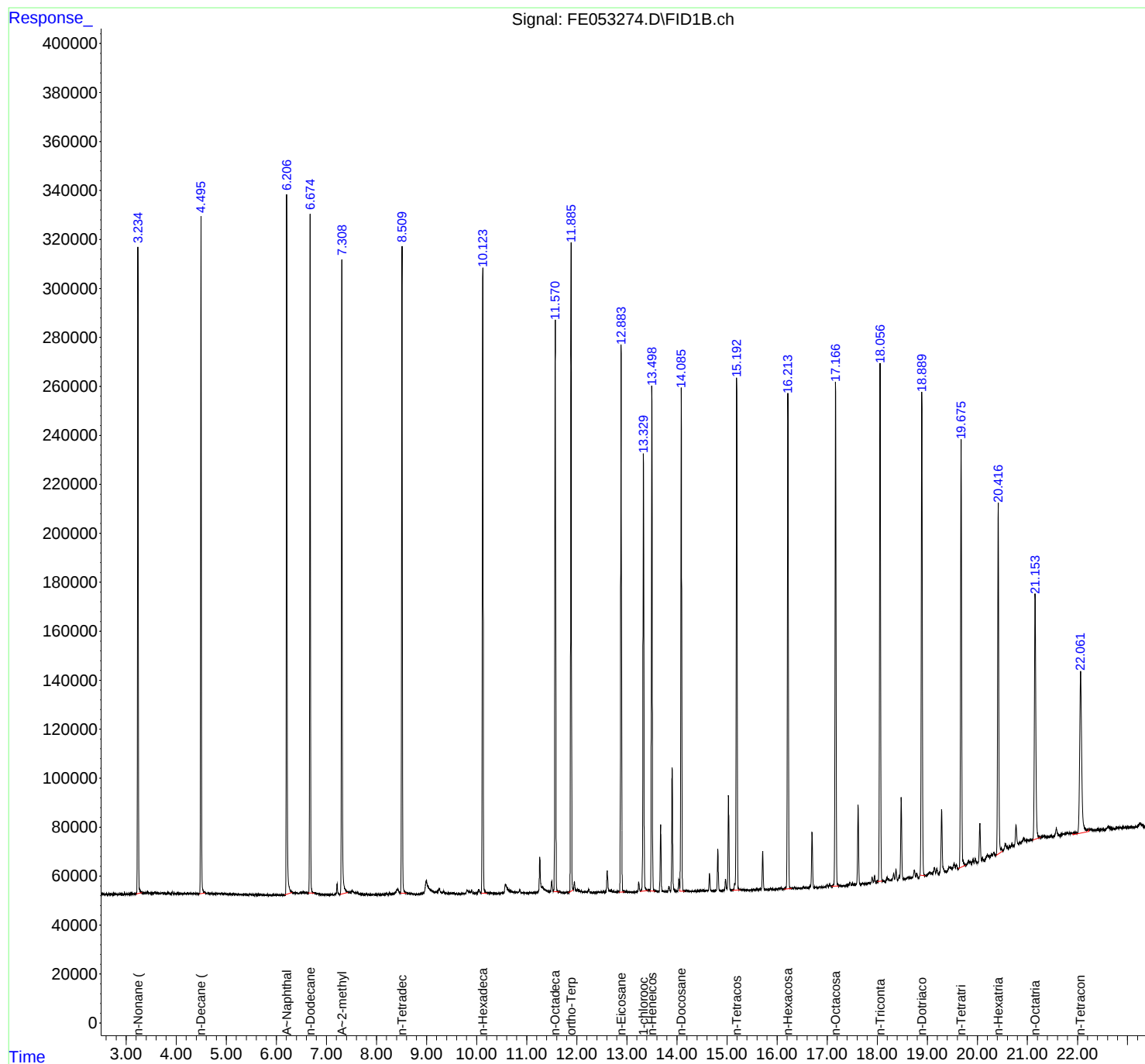
Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

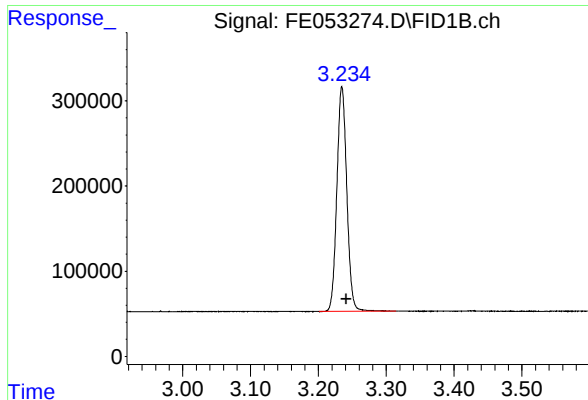
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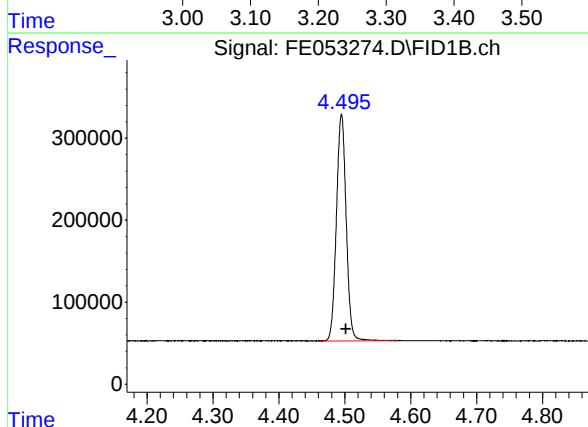
#1 n-Nonane (C9)

R.T.: 3.235 min  
Delta R.T.: -0.006 min  
Response: 2689597  
Conc: 17.37 ug/ml

Instrument :  
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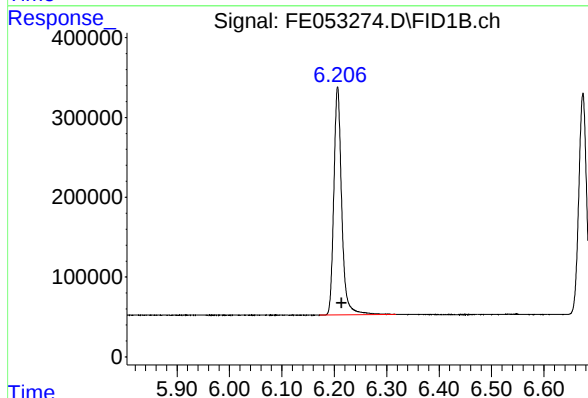
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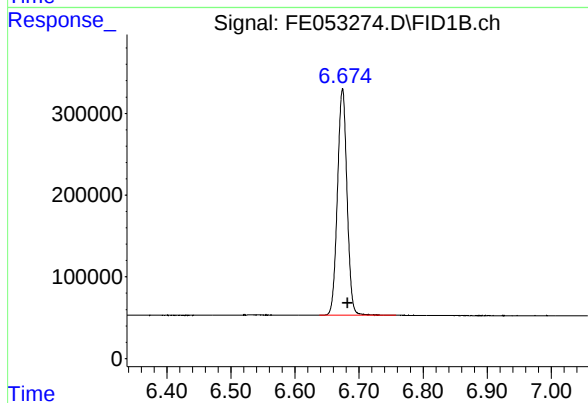
#2 n-Decane (C10)

R.T.: 4.495 min  
Delta R.T.: -0.007 min  
Response: 2843103  
Conc: 18.13 ug/ml



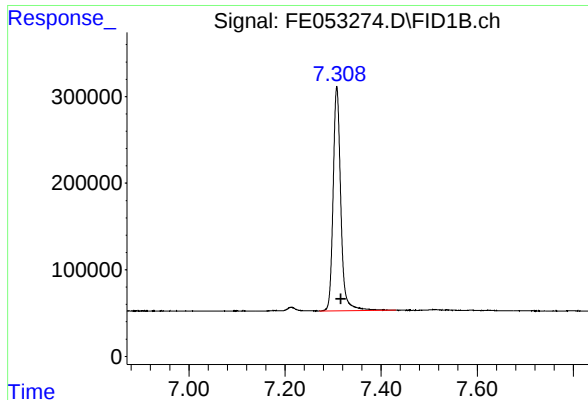
#3 A~Naphthalene (C11.7)

R.T.: 6.206 min  
Delta R.T.: -0.008 min  
Response: 2987734  
Conc: 17.79 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.674 min  
Delta R.T.: -0.008 min  
Response: 2867925  
Conc: 18.34 ug/ml



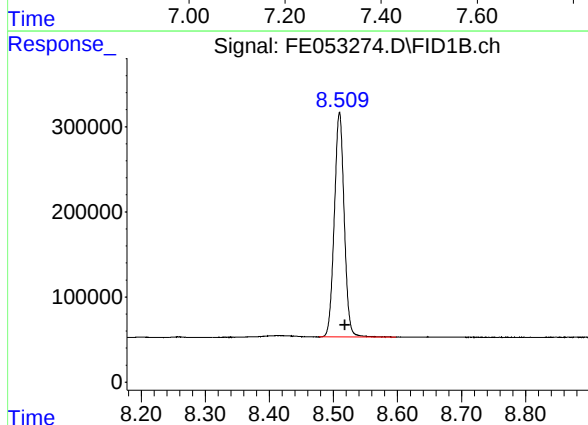
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.308 min  
Delta R.T.: -0.008 min  
Response: 2861181  
Conc: 17.93 ug/ml

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20 PPM ALIPHATIC HC STD

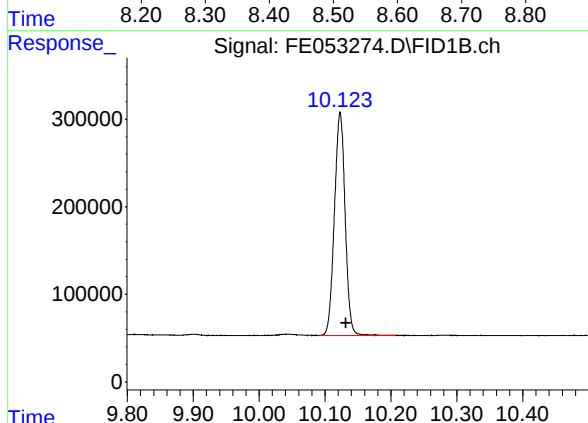
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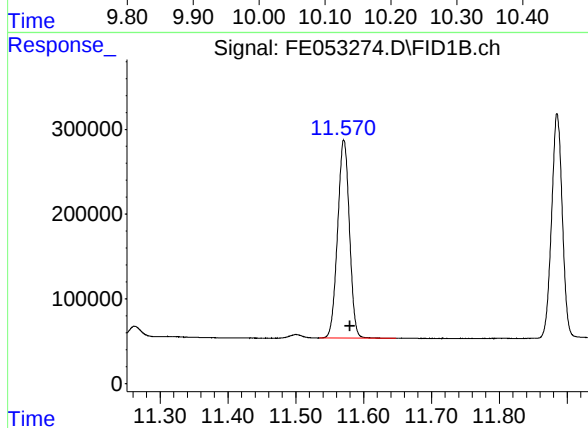
#6 n-Tetradecane (C14)

R.T.: 8.510 min  
Delta R.T.: -0.008 min  
Response: 2827439  
Conc: 18.47 ug/ml



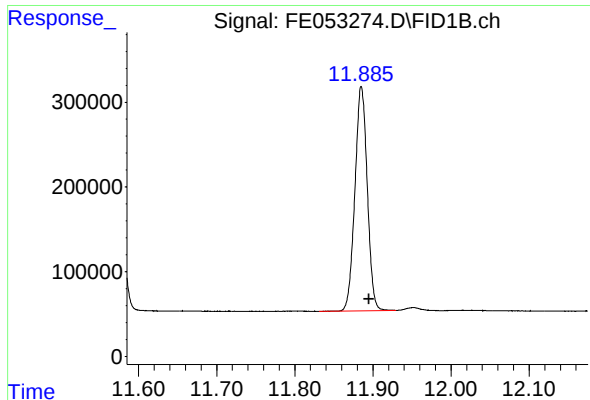
#7 n-Hexadecane (C16)

R.T.: 10.123 min  
Delta R.T.: -0.009 min  
Response: 2874049  
Conc: 18.64 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.571 min  
Delta R.T.: -0.009 min  
Response: 2830033  
Conc: 18.66 ug/ml



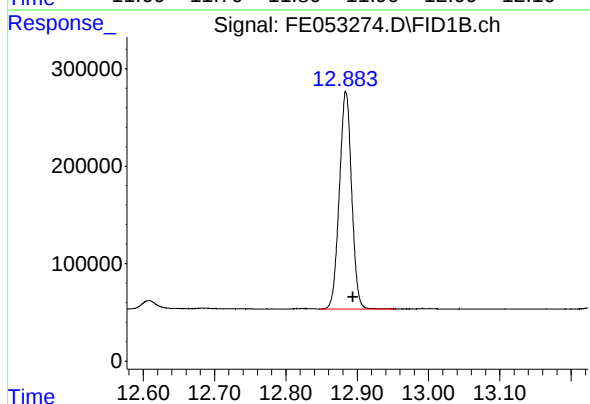
#9 ortho-Terphenyl (SURR)

R.T.: 11.885 min  
Delta R.T.: -0.010 min  
Response: 2906593  
Conc: 17.84 ug/ml

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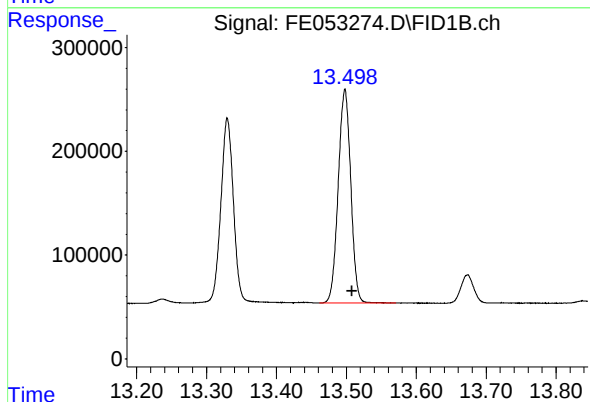
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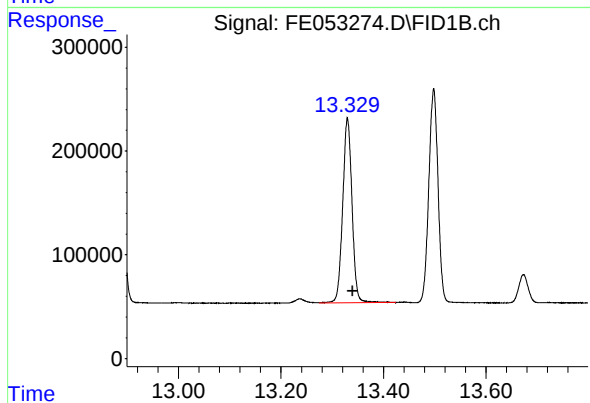
#10 n-Eicosane (C20)

R.T.: 12.884 min  
Delta R.T.: -0.010 min  
Response: 2667836  
Conc: 18.71 ug/ml



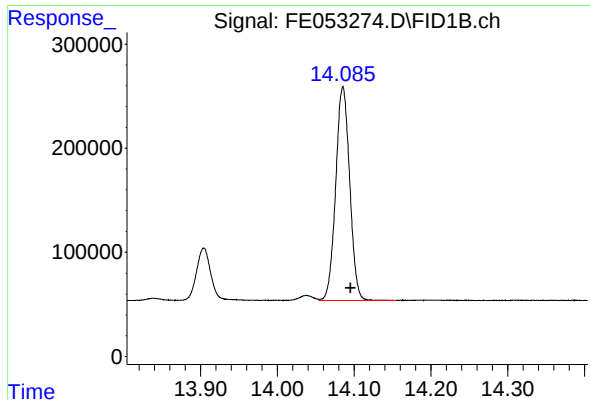
#11 n-Heneicosane (C21)

R.T.: 13.498 min  
Delta R.T.: -0.010 min  
Response: 2567561  
Conc: 18.50 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.330 min  
Delta R.T.: -0.010 min  
Response: 2241425  
Conc: 18.67 ug/ml



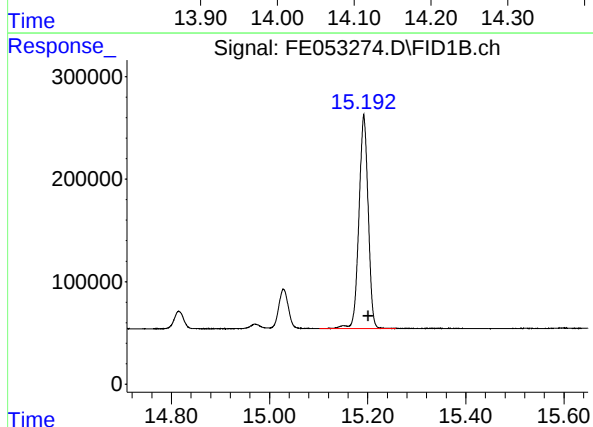
#13 n-Docosane (C22)

R.T.: 14.085 min  
Delta R.T.: -0.010 min  
Response: 2595178  
Conc: 18.95 ug/ml

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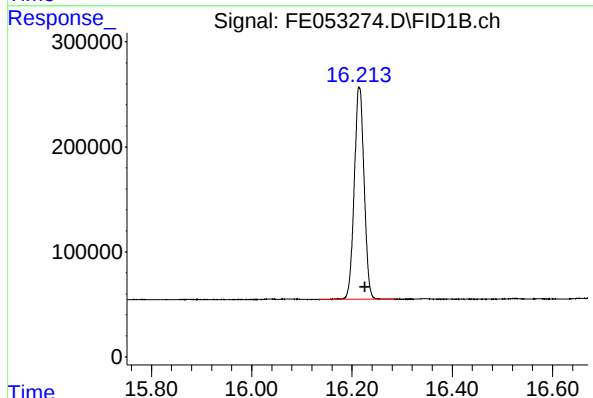
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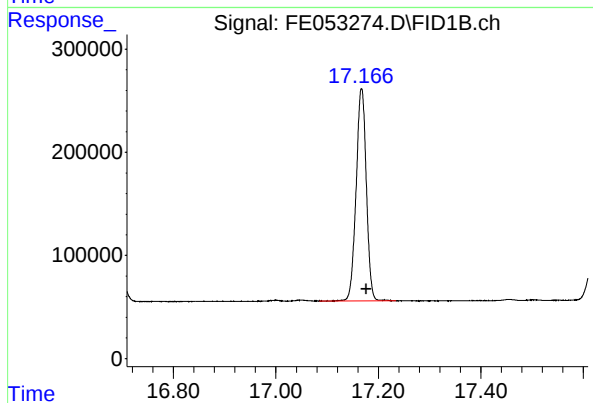
#14 n-Tetracosane (C24)

R.T.: 15.192 min  
Delta R.T.: -0.009 min  
Response: 2721601  
Conc: 20.15 ug/ml



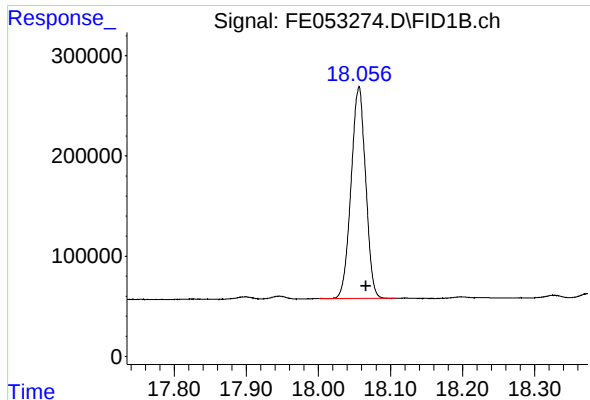
#15 n-Hexacosane (C26)

R.T.: 16.215 min  
Delta R.T.: -0.011 min  
Response: 2758553  
Conc: 20.68 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.167 min  
Delta R.T.: -0.009 min  
Response: 2844661  
Conc: 21.56 ug/ml



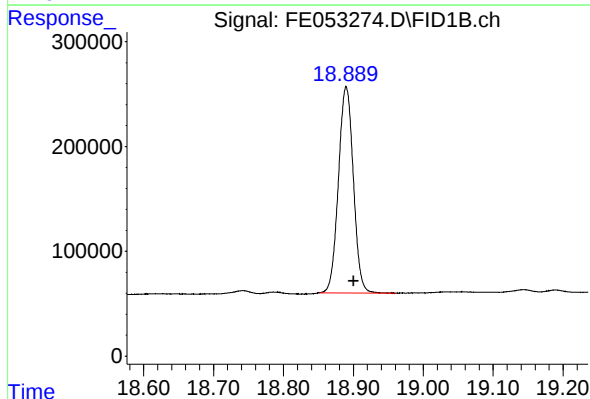
#17 n-Tricontane (C30)

R.T.: 18.056 min  
Delta R.T.: -0.010 min  
Response: 2968570  
Conc: 21.90 ug/ml

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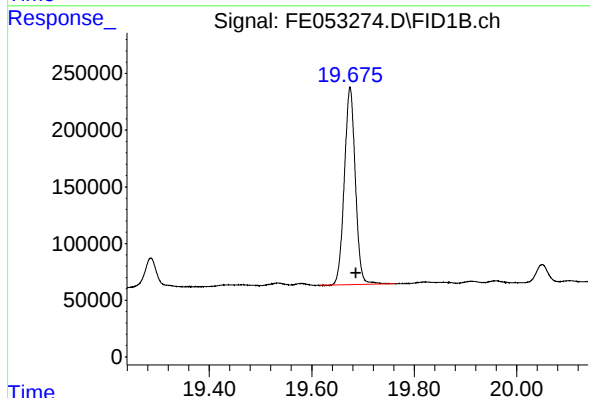
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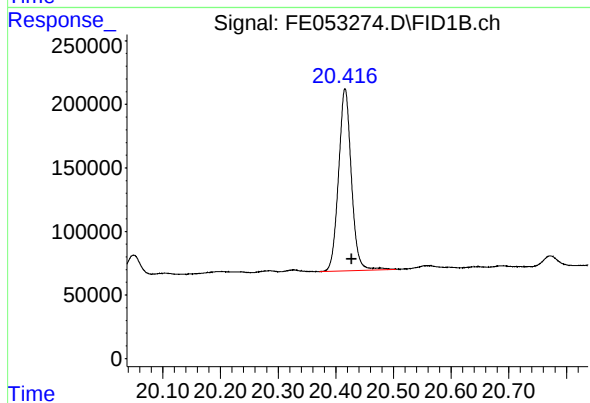
#18 n-Dotriacontane (C32)

R.T.: 18.890 min  
Delta R.T.: -0.011 min  
Response: 2917284  
Conc: 21.68 ug/ml



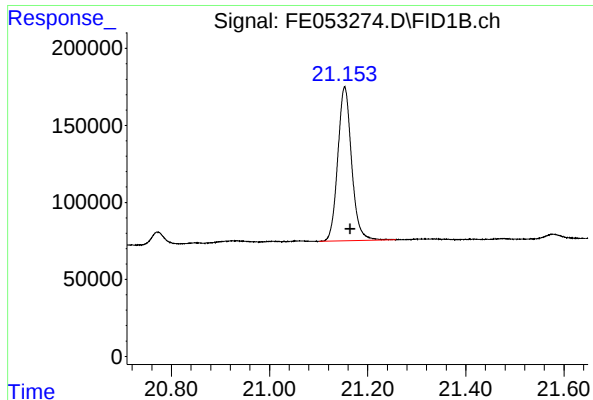
#19 n-Tetratriacontane (C34)

R.T.: 19.675 min  
Delta R.T.: -0.011 min  
Response: 2597067  
Conc: 20.07 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.416 min  
Delta R.T.: -0.012 min  
Response: 2208829  
Conc: 18.59 ug/ml



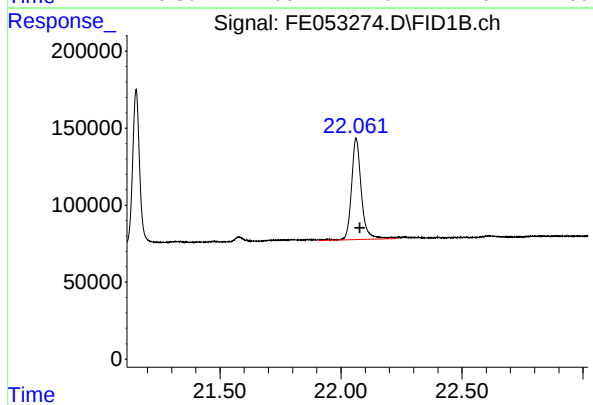
#21 n-Octatriacontane (C38)

R.T.: 21.153 min  
Delta R.T.: -0.012 min  
Response: 1954374  
Conc: 17.00 ug/ml

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#22 n-Tetracontane (C40)

R.T.: 22.061 min  
Delta R.T.: -0.017 min  
Response: 1878523  
Conc: 16.73 ug/ml m