

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE060525AL\  
 Data File : FE054212.D  
 Signal(s) : FID1B.ch  
 Acq On : 06 Jun 2025 01:50  
 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 06/06/2025  
 Supervised By :mohammad ahmed 06/09/2025

Integration File: autoint1.e  
 Quant Time: Jun 06 02:19:33 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)    | 11.833 | 2990927    | 18.404 ug/ml  |
| Spiked Amount 50.000           |        | Recovery = | 36.81%        |
| 12) S 1-chlorooctadecane (S... | 13.277 | 2255689    | 19.027 ug/ml  |
| Spiked Amount 50.000           |        | Recovery = | 38.05%        |
| Target Compounds               |        |            |               |
| 1) T n-Nonane (C9)             | 3.181  | 2188790    | 16.195 ug/ml  |
| 2) T n-Decane (C10)            | 4.444  | 2253609    | 16.677 ug/ml  |
| 3) T A~Naphthalene (C11.7)     | 6.159  | 2483394    | 17.280 ug/ml  |
| 4) T n-Dodecane (C12)          | 6.626  | 2358641    | 17.291 ug/ml  |
| 5) T A~2-methylnaphthalene...  | 7.262  | 2497319    | 18.004 ug/ml  |
| 6) T n-Tetradecane (C14)       | 8.461  | 2399819    | 17.783 ug/ml  |
| 7) T n-Hexadecane (C16)        | 10.073 | 2449625    | 18.154 ug/ml  |
| 8) T n-Octadecane (C18)        | 11.519 | 2474466    | 18.376 ug/ml  |
| 10) T n-Eicosane (C20)         | 12.832 | 2457704    | 18.700 ug/ml  |
| 11) T n-Heneicosane (C21)      | 13.445 | 2439421    | 18.816 ug/ml  |
| 13) T n-Docosane (C22)         | 14.032 | 2447219    | 19.182 ug/ml  |
| 14) T n-Tetracosane (C24)      | 15.137 | 2478682    | 19.811 ug/mlm |
| 15) T n-Hexacosane (C26)       | 16.161 | 2468383    | 20.158 ug/ml  |
| 16) T n-Octacosane (C28)       | 17.113 | 2470142    | 20.320 ug/ml  |
| 17) T n-Tricontane (C30)       | 18.002 | 2549407    | 20.467 ug/ml  |
| 18) T n-Dotriacontane (C32)    | 18.836 | 2522489    | 20.171 ug/ml  |
| 19) T n-Tetratriacontane (C34) | 19.620 | 2355138    | 19.771 ug/mlm |
| 20) T n-Hexatriacontane (C36)  | 20.361 | 2185680    | 18.877 ug/ml  |
| 21) T n-Octatriacontane (C38)  | 21.089 | 1953681    | 17.952 ug/ml  |
| 22) T n-Tetracontane (C40)     | 21.979 | 1880820    | 18.954 ug/ml  |
| -----                          |        |            |               |

(f)=RT Delta > 1/2 Window

(m)=manual int.

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Acq On : 06 Jun 2025 01:50  
Operator : YP\AJ  
Sample : 20 PPM ALIPHATIC HC STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

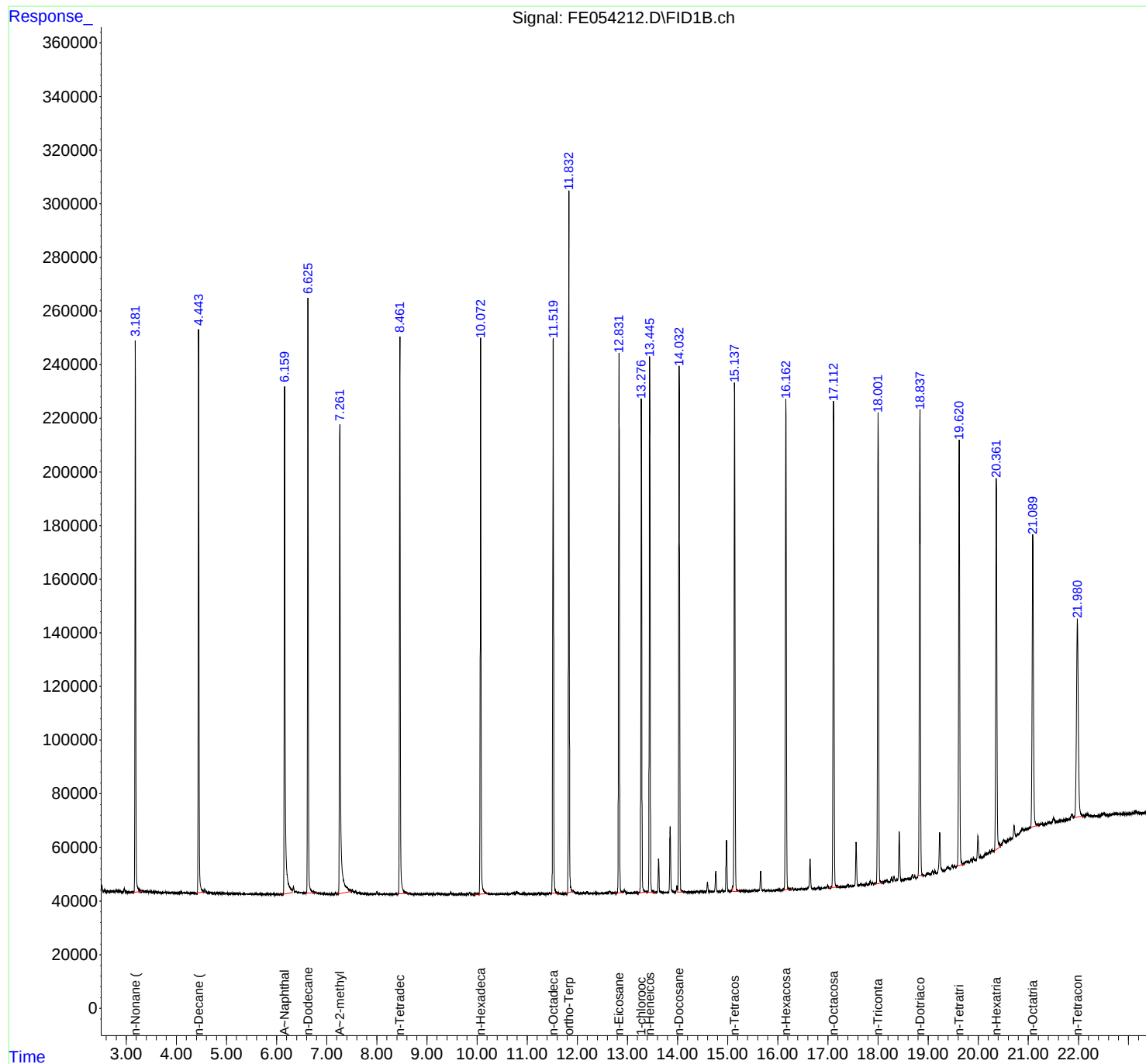
Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

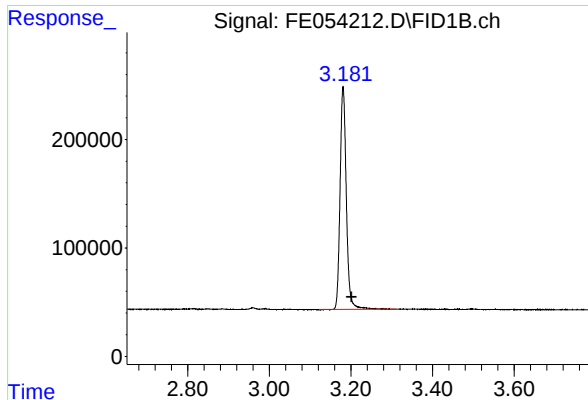
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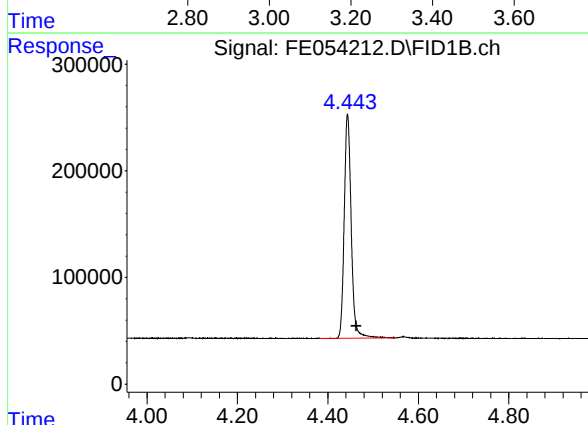
#1 n-Nonane (C9)

R.T.: 3.181 min  
Delta R.T.: -0.021 min  
Response: 2188790  
Conc: 16.19 ug/ml

Instrument :  
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ClientSampleId :  
20 PPM ALIPHATIC HC STD

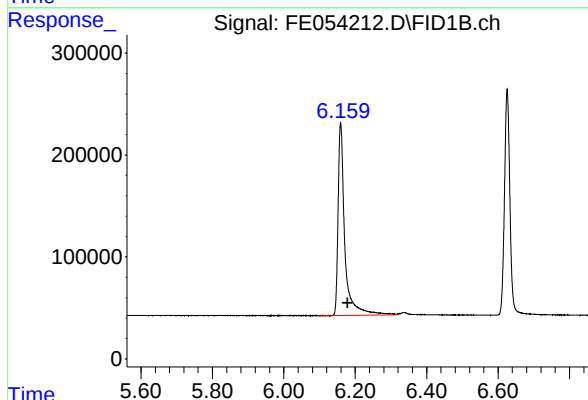
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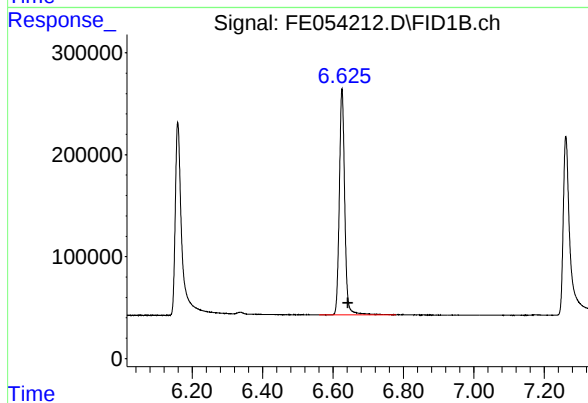
#2 n-Decane (C10)

R.T.: 4.444 min  
Delta R.T.: -0.019 min  
Response: 2253609  
Conc: 16.68 ug/ml



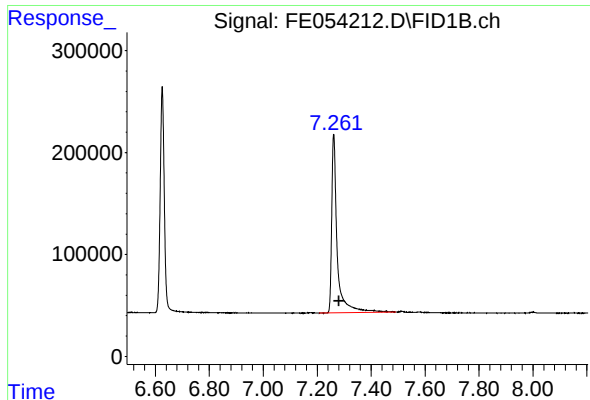
#3 A~Naphthalene (C11.7)

R.T.: 6.159 min  
Delta R.T.: -0.019 min  
Response: 2483394  
Conc: 17.28 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.626 min  
Delta R.T.: -0.017 min  
Response: 2358641  
Conc: 17.29 ug/ml



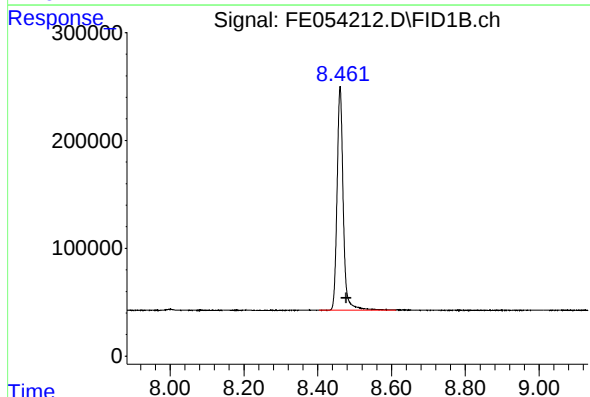
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.262 min  
Delta R.T.: -0.019 min  
Response: 2497319  
Conc: 18.00 ug/ml

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

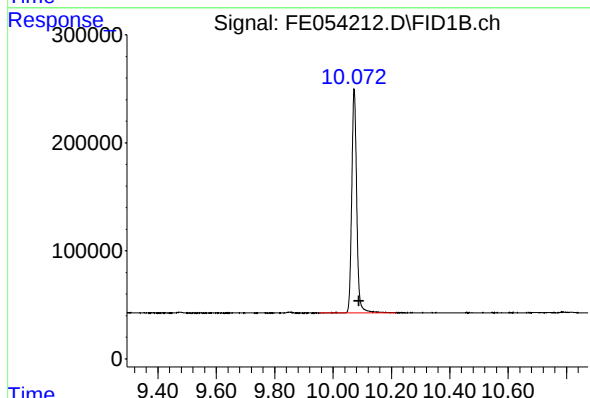
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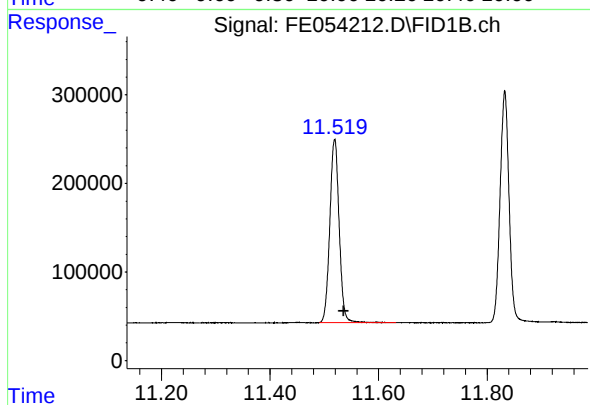
#6 n-Tetradecane (C14)

R.T.: 8.461 min  
Delta R.T.: -0.017 min  
Response: 2399819  
Conc: 17.78 ug/ml



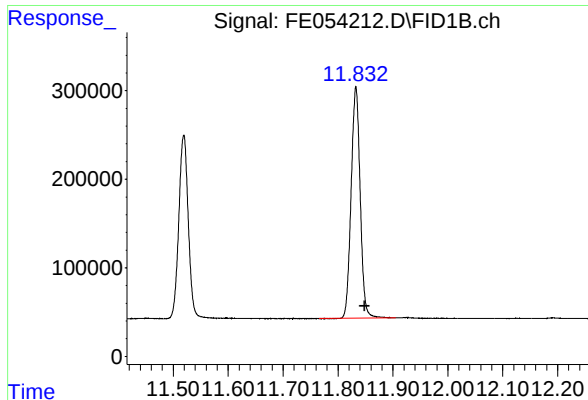
#7 n-Hexadecane (C16)

R.T.: 10.073 min  
Delta R.T.: -0.017 min  
Response: 2449625  
Conc: 18.15 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.519 min  
Delta R.T.: -0.017 min  
Response: 2474466  
Conc: 18.38 ug/ml



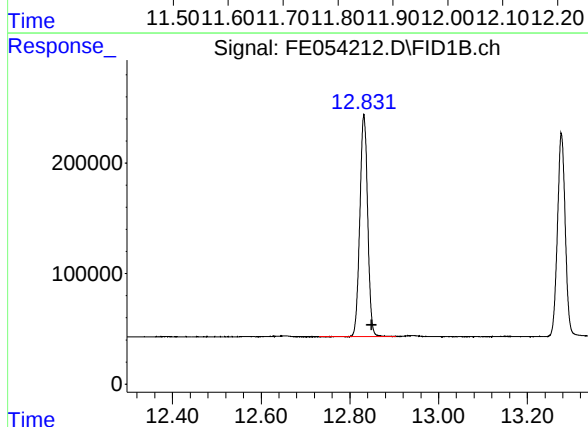
#9 ortho-Terphenyl (SURR)

R.T.: 11.833 min  
Delta R.T.: -0.016 min  
Response: 2990927  
Conc: 18.40 ug/ml

Instrument :  
FID\_E  
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20 PPM ALIPHATIC HC STD

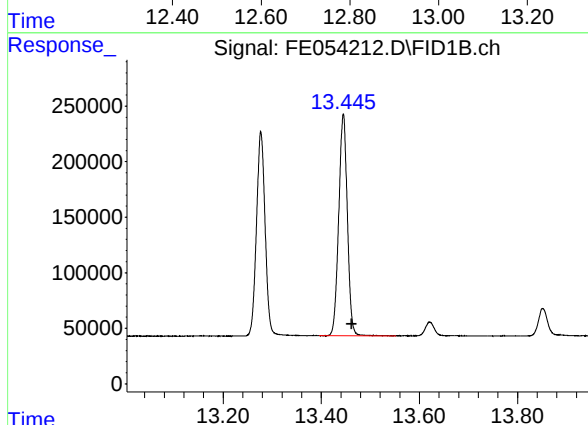
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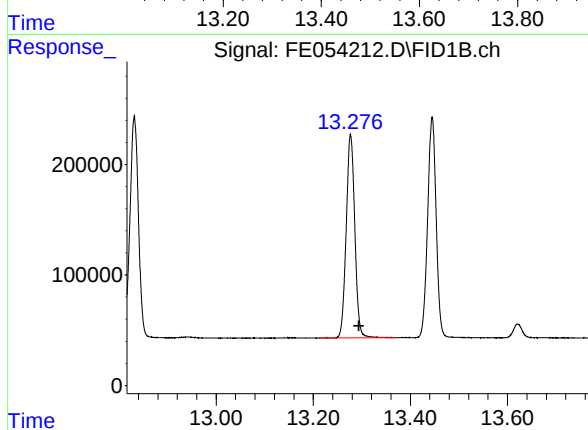
#10 n-Eicosane (C20)

R.T.: 12.832 min  
Delta R.T.: -0.017 min  
Response: 2457704  
Conc: 18.70 ug/ml



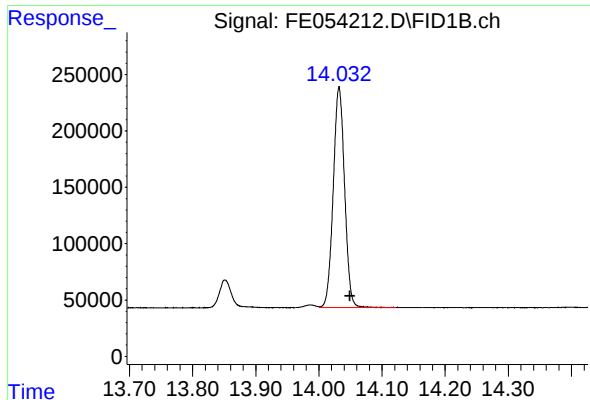
#11 n-Heneicosane (C21)

R.T.: 13.445 min  
Delta R.T.: -0.017 min  
Response: 2439421  
Conc: 18.82 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.277 min  
Delta R.T.: -0.018 min  
Response: 2255689  
Conc: 19.03 ug/ml



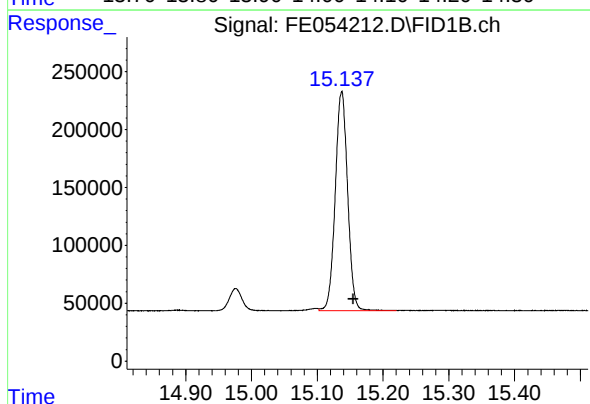
#13 n-Docosane (C22)

R.T.: 14.032 min  
Delta R.T.: -0.017 min  
Response: 2447219  
Conc: 19.18 ug/ml

Instrument :  
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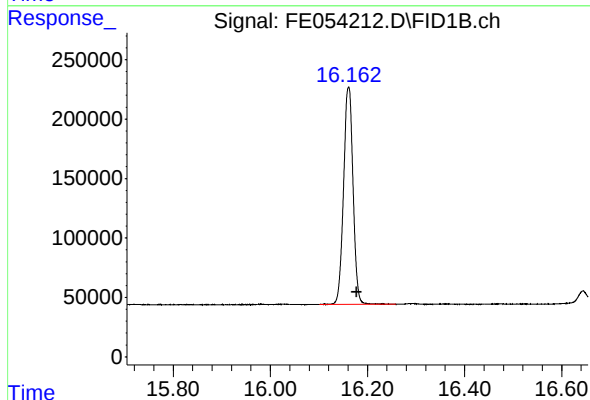
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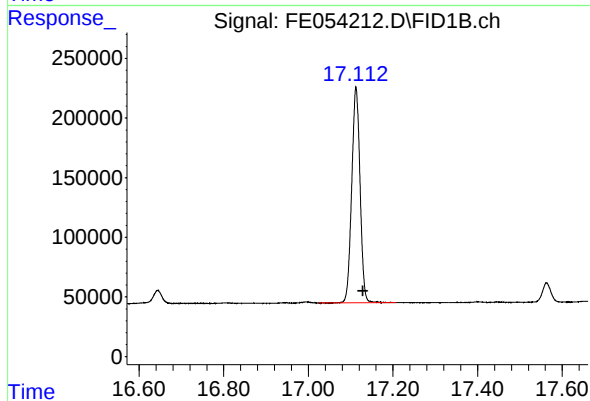
#14 n-Tetracosane (C24)

R.T.: 15.137 min  
Delta R.T.: -0.017 min  
Response: 2478682  
Conc: 19.81 ug/ml



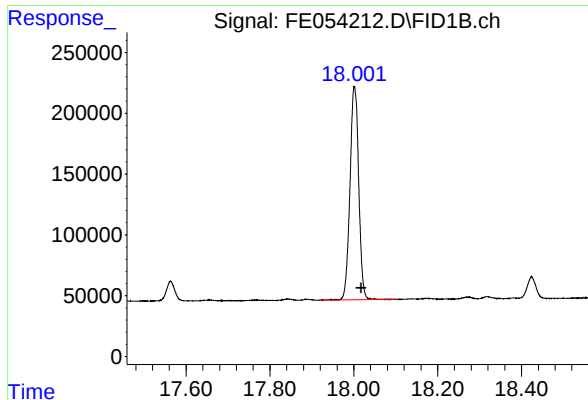
#15 n-Hexacosane (C26)

R.T.: 16.161 min  
Delta R.T.: -0.017 min  
Response: 2468383  
Conc: 20.16 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.113 min  
Delta R.T.: -0.016 min  
Response: 2470142  
Conc: 20.32 ug/ml



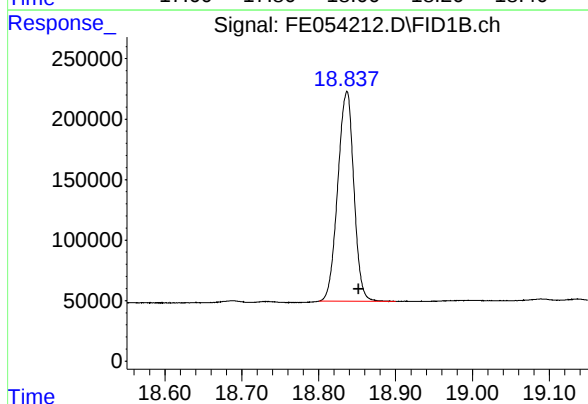
#17 n-Tricontane (C30)

R.T.: 18.002 min  
Delta R.T.: -0.016 min  
Response: 2549407  
Conc: 20.47 ug/ml

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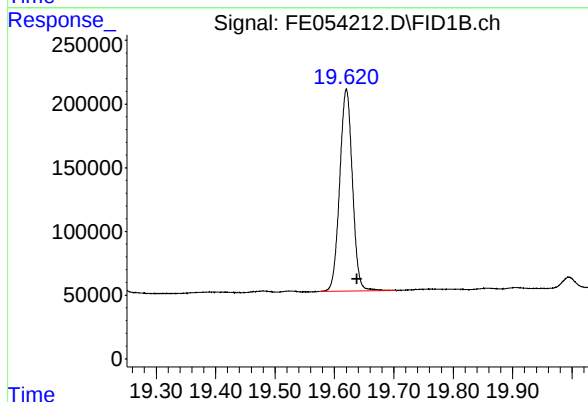
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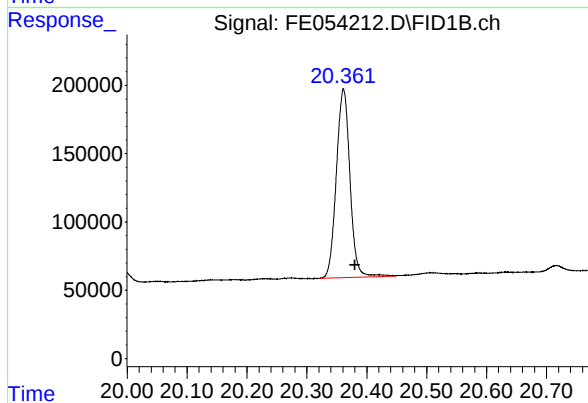
#18 n-Dotriacontane (C32)

R.T.: 18.836 min  
Delta R.T.: -0.016 min  
Response: 2522489  
Conc: 20.17 ug/ml



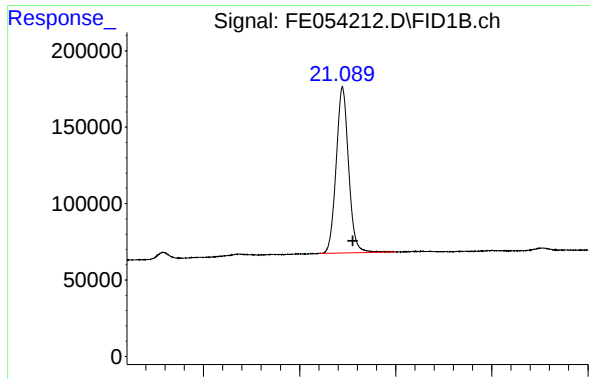
#19 n-Tetratriacontane (C34)

R.T.: 19.620 min  
Delta R.T.: -0.018 min  
Response: 2355138  
Conc: 19.77 ug/ml m



#20 n-Hexatriacontane (C36)

R.T.: 20.361 min  
Delta R.T.: -0.019 min  
Response: 2185680  
Conc: 18.88 ug/ml



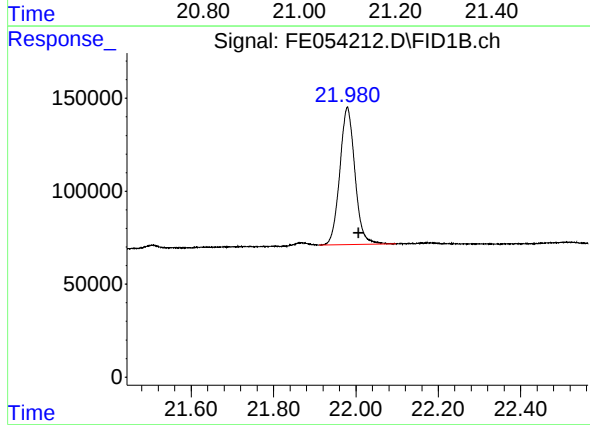
#21 n-Octatriacontane (C38)

R.T.: 21.089 min  
Delta R.T.: -0.022 min  
Response: 1953681  
Conc: 17.95 ug/ml

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#22 n-Tetracontane (C40)

R.T.: 21.979 min  
Delta R.T.: -0.028 min  
Response: 1880820  
Conc: 18.95 ug/ml