

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE061625AL\  
 Data File : FE054432.D  
 Signal(s) : FID1B.ch  
 Acq On : 17 Jun 2025 06:19  
 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 06/17/2025  
 Supervised By :mohammad ahmed 06/18/2025

Integration File: autoint1.e  
 Quant Time: Jun 17 07:02:46 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 061025.M  
 Quant Title : GC Extractables  
 QLast Update : Tue Jun 10 07:24:04 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)    | 11.824 | 3433594    | 20.780 ug/ml  |
| Spiked Amount 50.000           |        | Recovery = | 41.56%        |
| 12) S 1-chlorooctadecane (S... | 13.269 | 2562278    | 21.011 ug/ml  |
| Spiked Amount 50.000           |        | Recovery = | 42.02%        |
|                                |        |            |               |
| Target Compounds               |        |            |               |
| 1) T n-Nonane (C9)             | 3.173  | 2527405    | 20.353 ug/ml  |
| 2) T n-Decane (C10)            | 4.436  | 2570163    | 20.685 ug/ml  |
| 3) T A~Naphthalene (C11.7)     | 6.152  | 2722645    | 20.147 ug/ml  |
| 4) T n-Dodecane (C12)          | 6.618  | 2633652    | 20.683 ug/ml  |
| 5) T A~2-methylnaphthalene...  | 7.254  | 2707117    | 20.438 ug/ml  |
| 6) T n-Tetradecane (C14)       | 8.453  | 2659875    | 20.545 ug/ml  |
| 7) T n-Hexadecane (C16)        | 10.065 | 2739410    | 20.622 ug/ml  |
| 8) T n-Octadecane (C18)        | 11.511 | 2804844    | 20.772 ug/ml  |
| 10) T n-Eicosane (C20)         | 12.824 | 2782404    | 20.799 ug/ml  |
| 11) T n-Heneicosane (C21)      | 13.437 | 2778235    | 20.894 ug/ml  |
| 13) T n-Docosane (C22)         | 14.024 | 2749475    | 20.969 ug/ml  |
| 14) T n-Tetracosane (C24)      | 15.129 | 2739894    | 21.240 ug/ml  |
| 15) T n-Hexacosane (C26)       | 16.152 | 2681738    | 21.364 ug/ml  |
| 16) T n-Octacosane (C28)       | 17.103 | 2663617    | 21.721 ug/ml  |
| 17) T n-Tricontane (C30)       | 17.992 | 2769422    | 22.344 ug/ml  |
| 18) T n-Dotriacontane (C32)    | 18.826 | 2840276    | 22.606 ug/ml  |
| 19) T n-Tetratriacontane (C34) | 19.611 | 2684881    | 21.581 ug/ml  |
| 20) T n-Hexatriacontane (C36)  | 20.352 | 2701363    | 20.985 ug/ml  |
| 21) T n-Octatriacontane (C38)  | 21.078 | 2683892    | 20.326 ug/ml  |
| 22) T n-Tetracontane (C40)     | 21.966 | 2581537    | 19.164 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

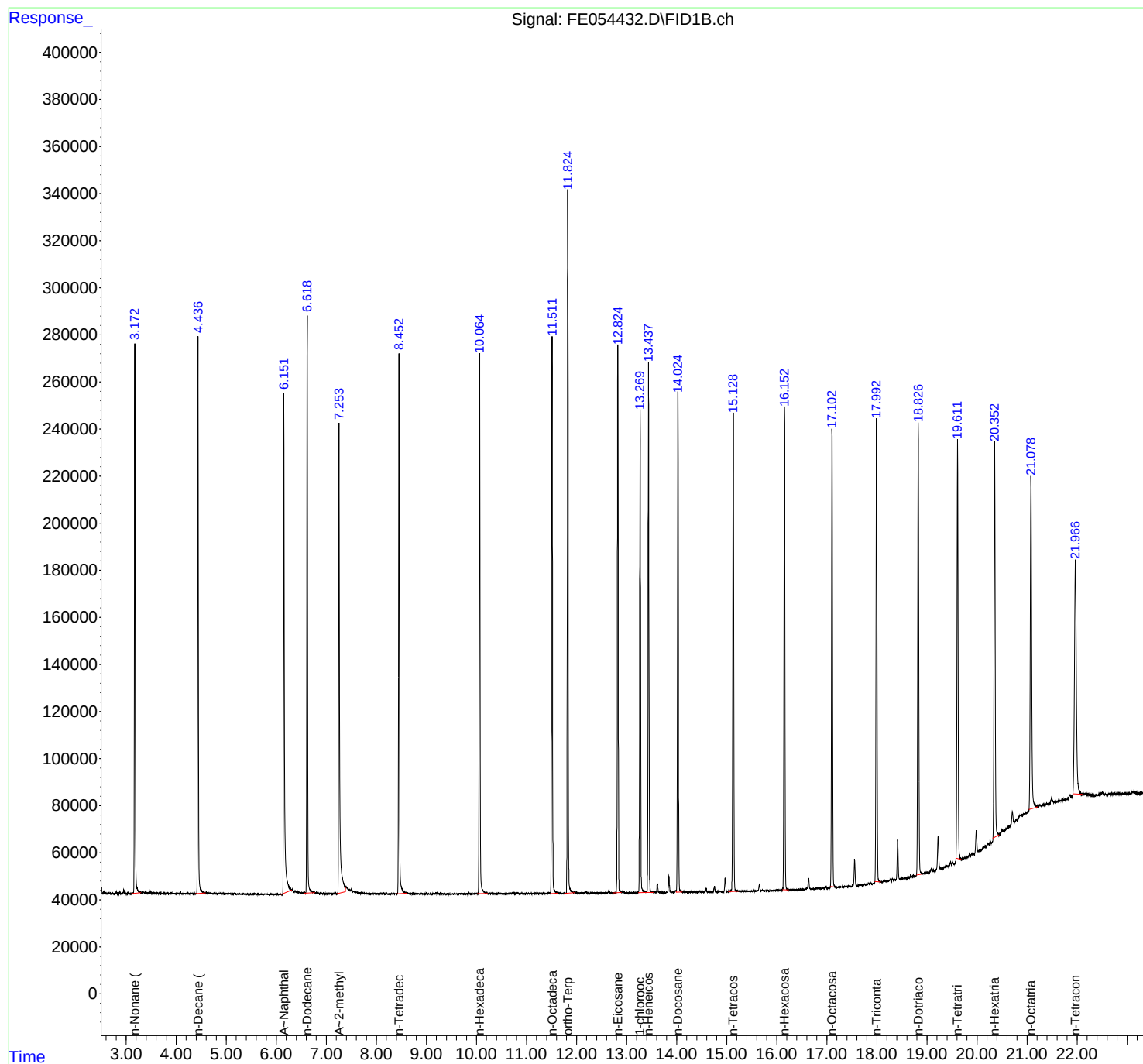
Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

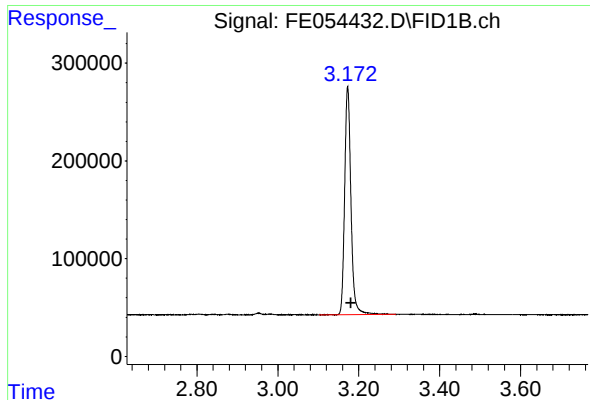
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Supervised By :mohammad ahmed 06/18/2025

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Signal Phase : Rxi-1ms  
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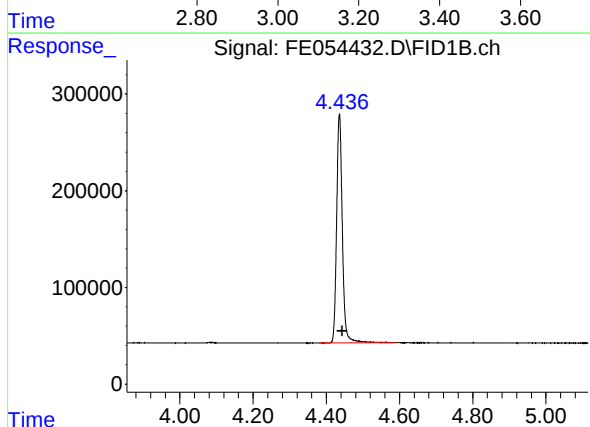
#1 n-Nonane (C9)

R.T.: 3.173 min  
Delta R.T.: -0.008 min  
Response: 2527405  
Conc: 20.35 ug/ml

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

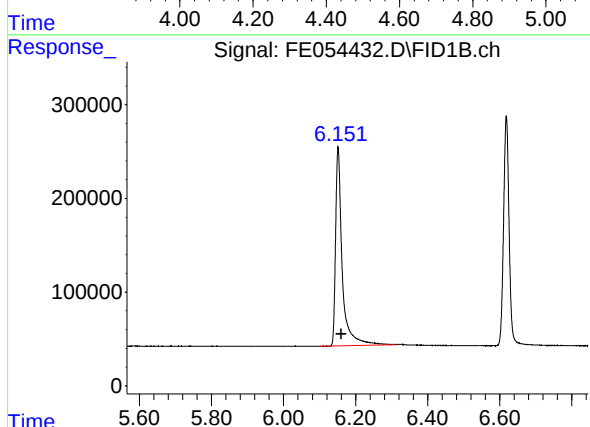
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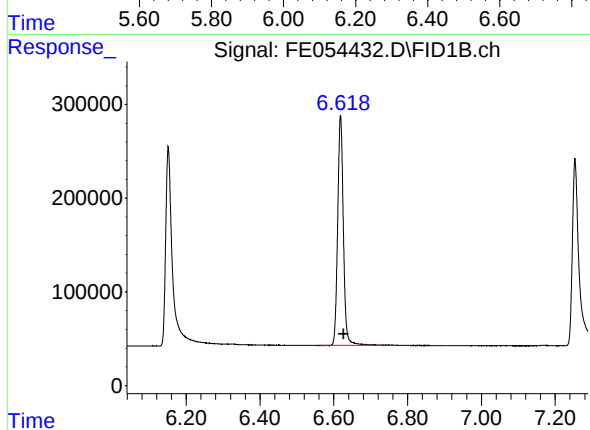
#2 n-Decane (C10)

R.T.: 4.436 min  
Delta R.T.: -0.008 min  
Response: 2570163  
Conc: 20.68 ug/ml



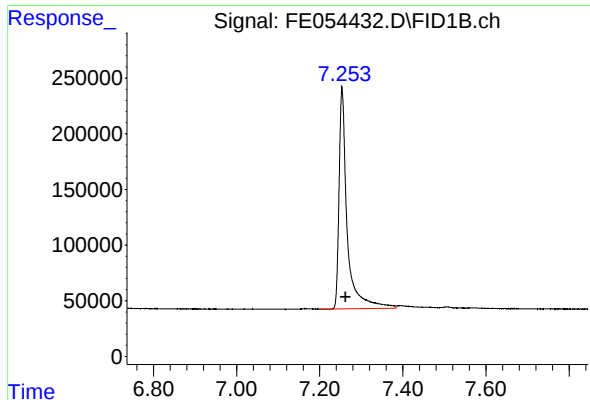
#3 A~Naphthalene (C11.7)

R.T.: 6.152 min  
Delta R.T.: -0.009 min  
Response: 2722645  
Conc: 20.15 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.618 min  
Delta R.T.: -0.008 min  
Response: 2633652  
Conc: 20.68 ug/ml



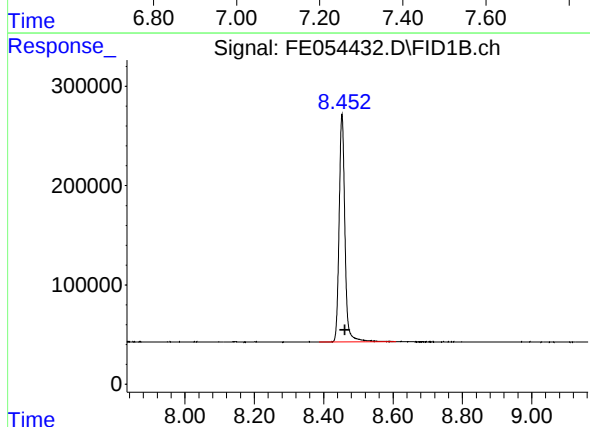
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.254 min  
Delta R.T.: -0.009 min  
Response: 2707117  
Conc: 20.44 ug/ml

Instrument :  
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20 PPM ALIPHATIC HC STD

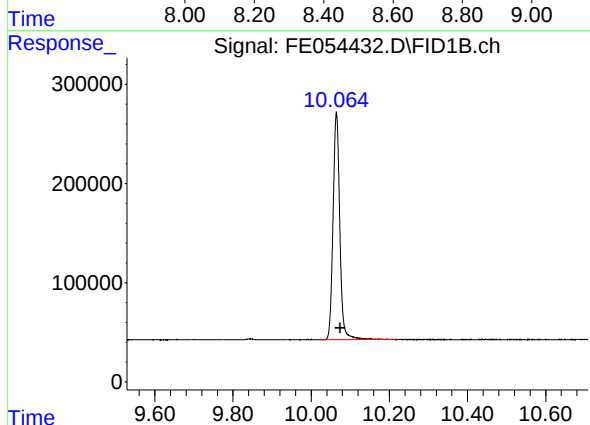
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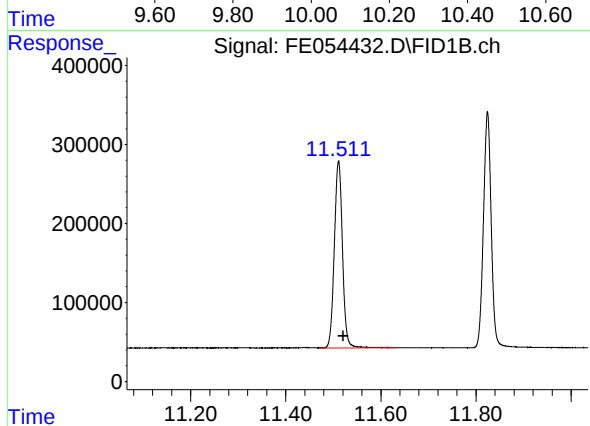
#6 n-Tetradecane (C14)

R.T.: 8.453 min  
Delta R.T.: -0.009 min  
Response: 2659875  
Conc: 20.55 ug/ml



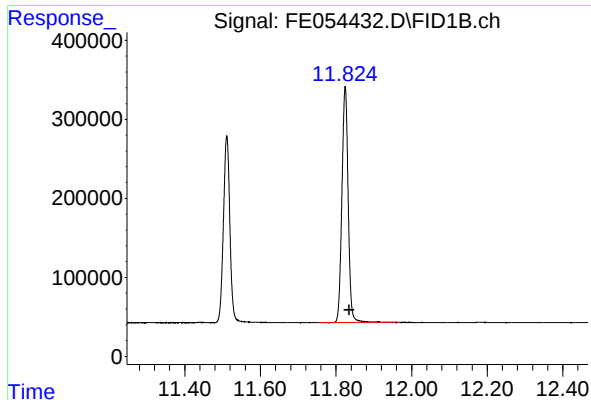
#7 n-Hexadecane (C16)

R.T.: 10.065 min  
Delta R.T.: -0.010 min  
Response: 2739410  
Conc: 20.62 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.511 min  
Delta R.T.: -0.010 min  
Response: 2804844  
Conc: 20.77 ug/ml



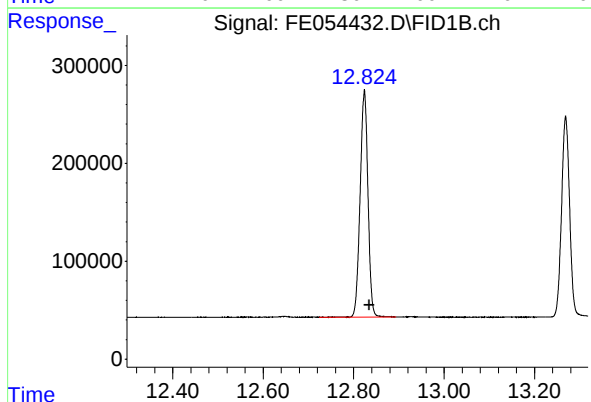
#9 ortho-Terphenyl (SURR)

R.T.: 11.824 min  
Delta R.T.: -0.011 min  
Response: 3433594  
Conc: 20.78 ug/ml

Instrument :  
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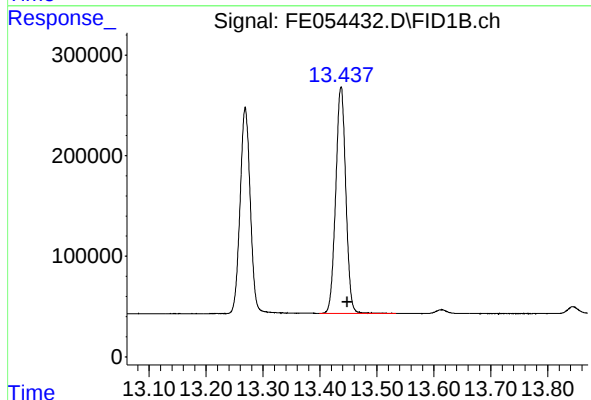
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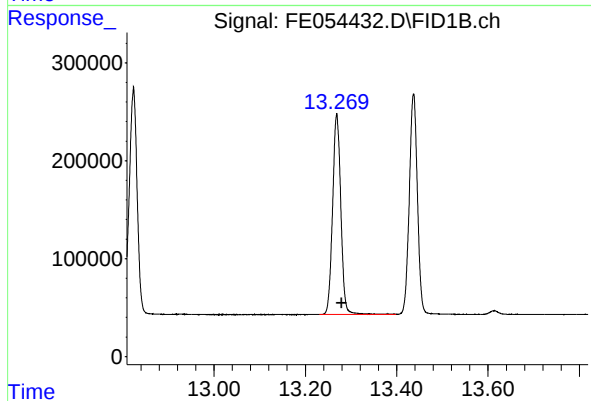
#10 n-Eicosane (C20)

R.T.: 12.824 min  
Delta R.T.: -0.011 min  
Response: 2782404  
Conc: 20.80 ug/ml



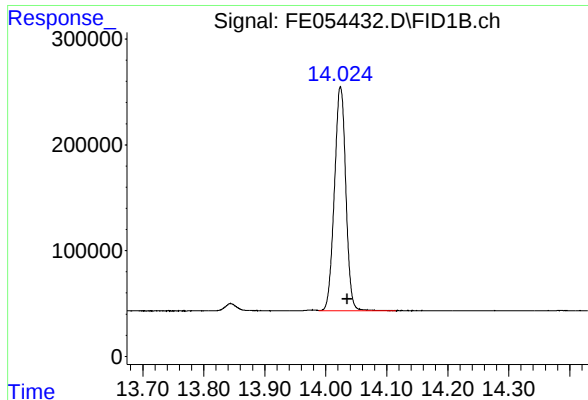
#11 n-Heneicosane (C21)

R.T.: 13.437 min  
Delta R.T.: -0.011 min  
Response: 2778235  
Conc: 20.89 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.269 min  
Delta R.T.: -0.011 min  
Response: 2562278  
Conc: 21.01 ug/ml



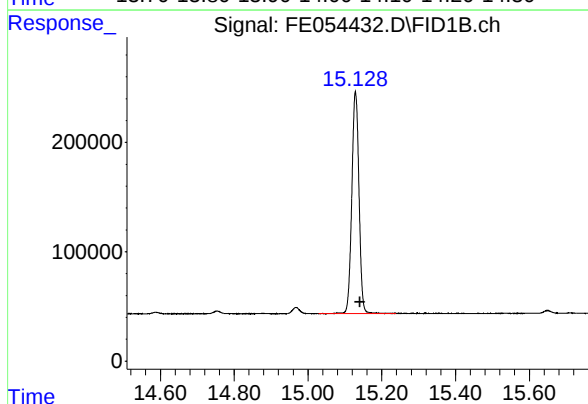
#13 n-Docosane (C22)

R.T.: 14.024 min  
Delta R.T.: -0.011 min  
Response: 2749475  
Conc: 20.97 ug/ml

Instrument :  
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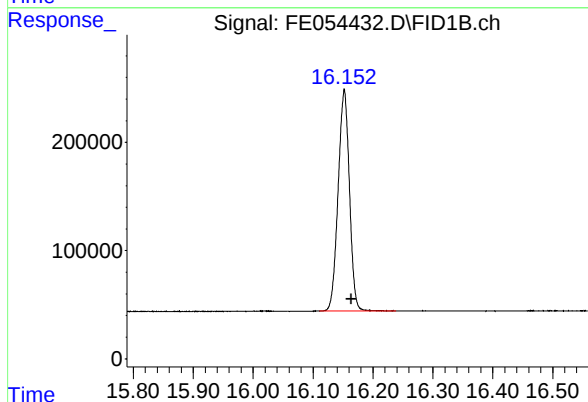
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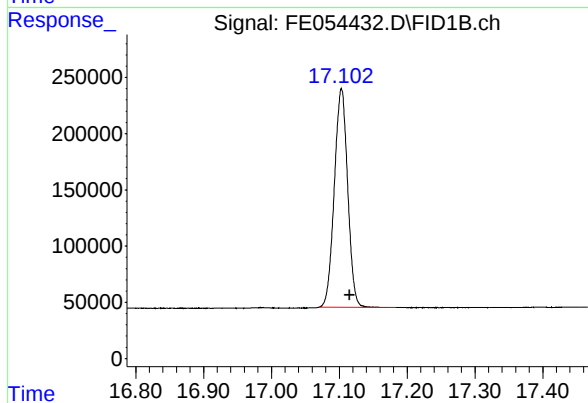
#14 n-Tetracosane (C24)

R.T.: 15.129 min  
Delta R.T.: -0.013 min  
Response: 2739894  
Conc: 21.24 ug/ml



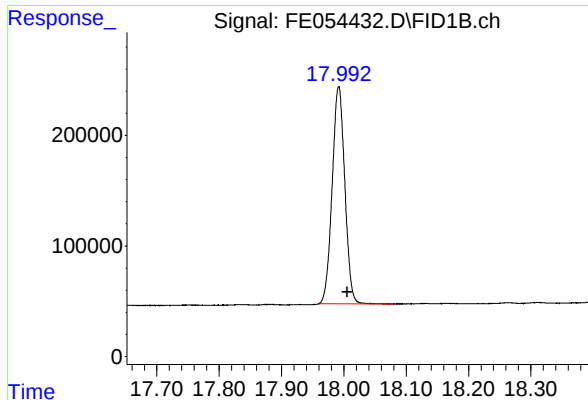
#15 n-Hexacosane (C26)

R.T.: 16.152 min  
Delta R.T.: -0.012 min  
Response: 2681738  
Conc: 21.36 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.103 min  
Delta R.T.: -0.012 min  
Response: 2663617  
Conc: 21.72 ug/ml



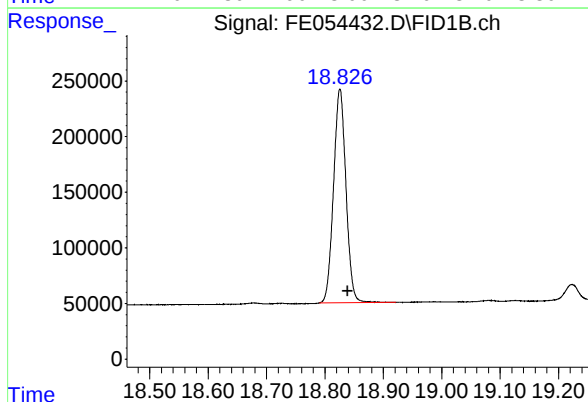
#17 n-Tricontane (C30)

R.T.: 17.992 min  
Delta R.T.: -0.014 min  
Response: 2769422  
Conc: 22.34 ug/ml

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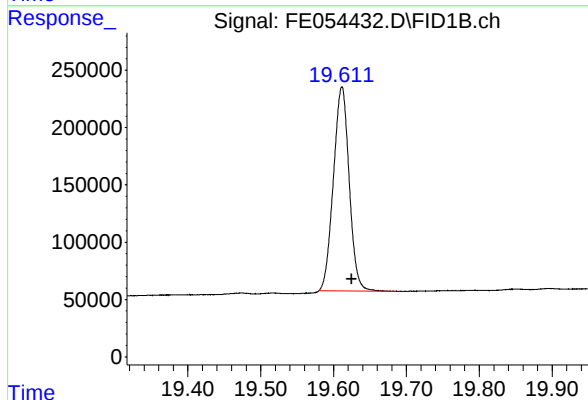
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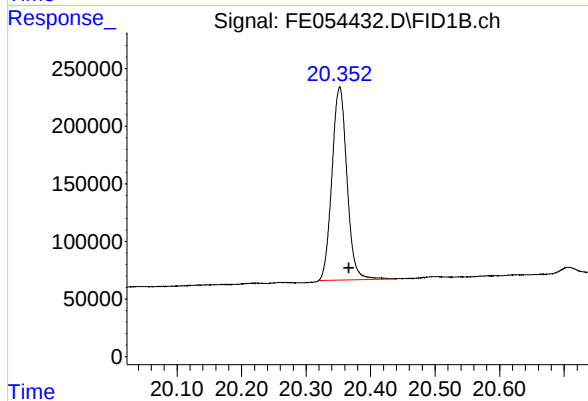
#18 n-Dotriacontane (C32)

R.T.: 18.826 min  
Delta R.T.: -0.013 min  
Response: 2840276  
Conc: 22.61 ug/ml



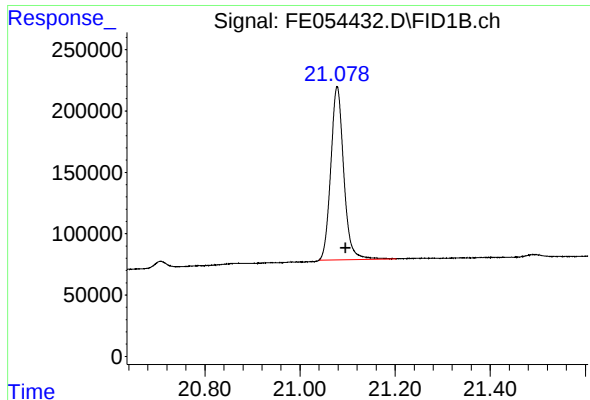
#19 n-Tetratriacontane (C34)

R.T.: 19.611 min  
Delta R.T.: -0.014 min  
Response: 2684881  
Conc: 21.58 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.352 min  
Delta R.T.: -0.014 min  
Response: 2701363  
Conc: 20.98 ug/ml



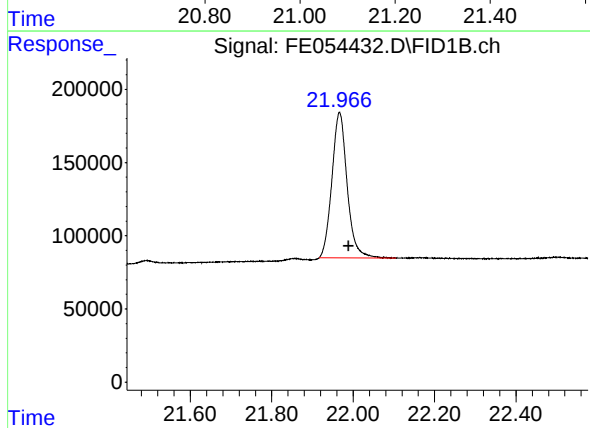
#21 n-Octatriacontane (C38)

R.T.: 21.078 min  
Delta R.T.: -0.017 min  
Response: 2683892  
Conc: 20.33 ug/ml

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#22 n-Tetracontane (C40)

R.T.: 21.966 min  
Delta R.T.: -0.023 min  
Response: 2581537  
Conc: 19.16 ug/ml m