

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_D\Data\FD111824AR\  
 Data File : FD048771.D  
 Signal(s) : FID2B.ch  
 Acq On : 19 Nov 2024 00:17  
 Operator : YP/AJ  
 Sample : P4839-22MSD  
 Misc :  
 ALS Vial : 72 Sample Multiplier: 1

**Instrument :**

FID\_D

**ClientSampleId :**

EX-4-TPH-6MSD

**Manual Integrations****APPROVED**

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E

Quant Time: Nov 19 05:56:45 2024

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_D\methods\Aromatic EPH 111424.M

Quant Title : GC Extractables

QLast Update : Thu Nov 14 14:16:25 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1 µl

Signal Phase : Rxi-1ms

Signal Info : 20M x 0.18mm x 0.18µm

| Compound                           | R.T.   | Response   | Conc Units    |
|------------------------------------|--------|------------|---------------|
| -----                              |        |            |               |
| System Monitoring Compounds        |        |            |               |
| 4) S 2-Bromonaphthalene (S...      | 7.366  | 8969471    | 50.946 ug/ml  |
| Spiked Amount 50.000               |        | Recovery = | 101.89%       |
| 6) S 2-Fluorobiphenyl (SURR)       | 8.217  | 5798672    | 50.349 ug/ml  |
| Spiked Amount 50.000 Range 0 - 131 |        | Recovery = | 100.70%       |
| 11) S ortho-Terphenyl (SURR)       | 11.252 | 7428539    | 38.623 ug/ml  |
| Spiked Amount 50.000               |        | Recovery = | 77.25%        |
|                                    |        |            |               |
| Target Compounds                   |        |            |               |
| 1) T 1,2,3-Trimethylbenzen...      | 4.189  | 6923954    | 36.739 ug/ml  |
| 2) T Naphthalene (C11.7)           | 5.706  | 8056151    | 41.192 ug/ml  |
| 3) T 2-Methylnaphthalene (...)     | 6.753  | 7956887    | 41.636 ug/ml  |
| 5) T Acenaphthylene (C15.06)       | 8.020  | 9254488    | 47.722 ug/ml  |
| 7) T Acenaphthene (C15.5)          | 8.316  | 9889760    | 51.417 ug/ml  |
| 8) T Flouorene (C16.55)            | 9.094  | 9947391    | 51.849 ug/ml  |
| 9) T Phenanthrene (C19.36)         | 10.482 | 10226984   | 55.793 ug/ml  |
| 10) T Anthracene (C19.43)          | 10.559 | 10224393   | 54.597 ug/ml  |
| 12) T Fluoranthene (C21.85)        | 12.289 | 10443203   | 57.029 ug/mlm |
| 13) T Pyrene (C20.8)               | 12.583 | 10226558   | 56.565 ug/ml  |
| 14) T Benzo[a]anthracene (C...     | 14.453 | 9664307    | 58.749 ug/ml  |
| 15) T Chrysene (C27.41)            | 14.497 | 9525573    | 54.428 ug/ml  |
| 16) T benzo[b]fluoranthene ...     | 16.001 | 9229697    | 58.744 ug/ml  |
| 17) T Bnezo[k]fluoranthene ...     | 16.036 | 9076756    | 55.619 ug/ml  |
| 18) T Benzo[a]pyrene (C31.34)      | 16.377 | 8602414    | 57.697 ug/ml  |
| 19) T Indeno[1,2,3-cd]pyren...     | 17.745 | 8630374    | 69.865 ug/ml  |
| 20) T Dibenz[a,h]anthracene...     | 17.782 | 8113945    | 51.743 ug/ml  |
| 21) T Benzo[g,h,i]perylene ...     | 17.997 | 8210524    | 57.542 ug/ml  |
| -----                              |        |            |               |

(f)=RT Delta &gt; 1/2 Window

(m)=manual int.

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Signal(s) : FID2B.ch  
Acq On : 19 Nov 2024 00:17  
Operator : YP/AJ  
Sample : P4839-22MSD  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

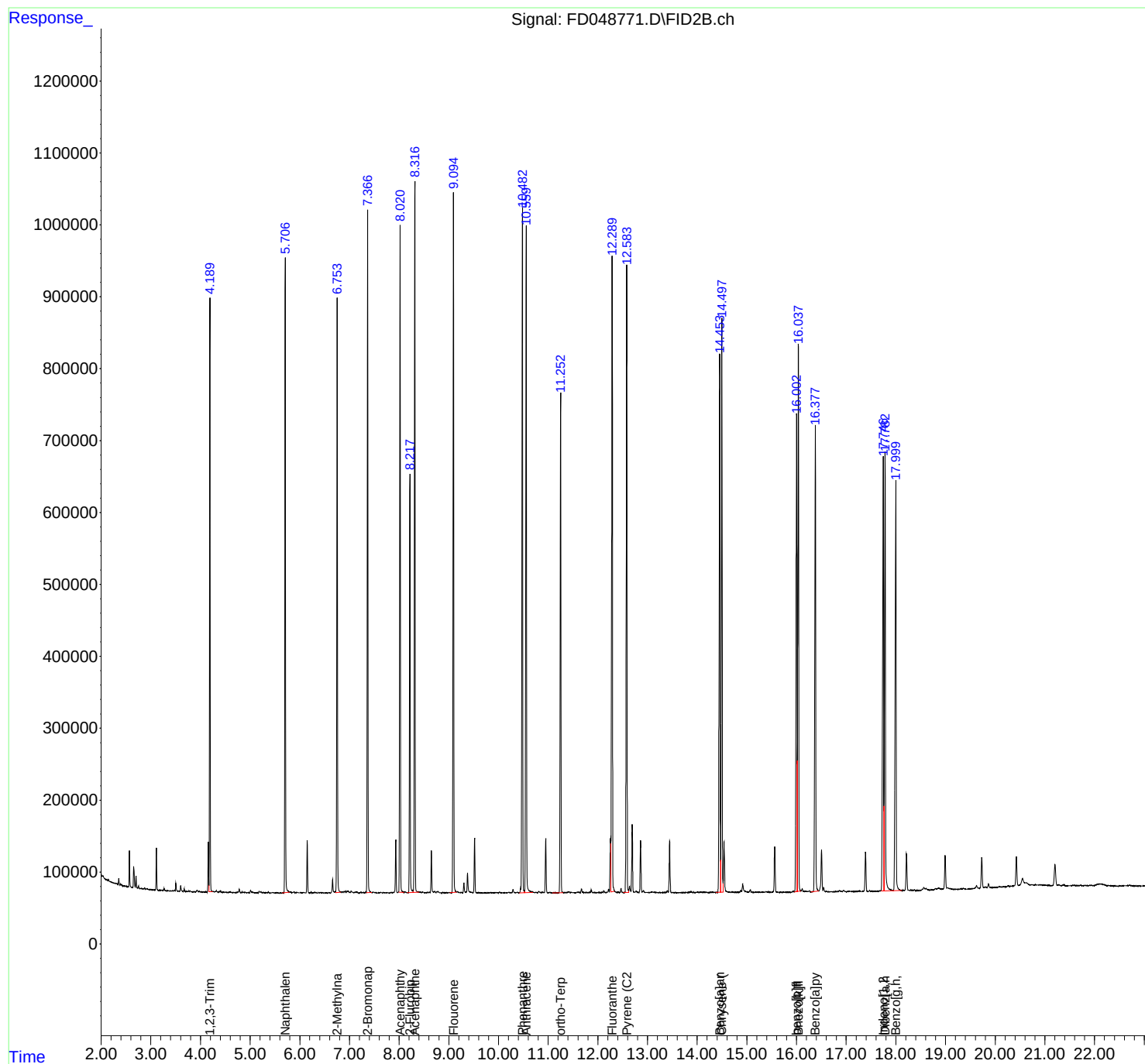
Instrument :  
FID\_D  
ClientSampleId :  
EX-4-TPH-6MSD

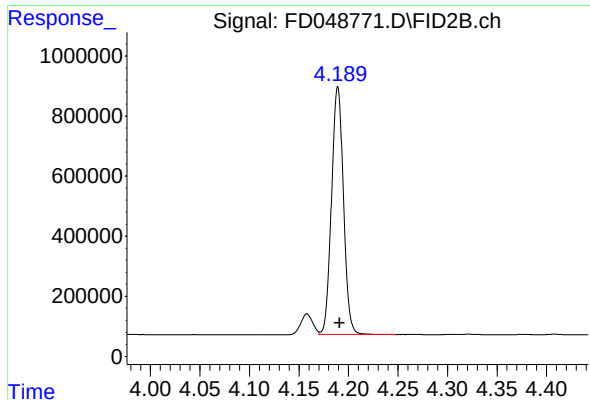
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/19/2024  
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E  
Quant Time: Nov 19 05:56:45 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_D\methods\Aromatic EPH 111424.M  
Quant Title : GC Extractables  
QLast Update : Thu Nov 14 14:16:25 2024  
Response via : Initial Calibration  
Integrator: ChemStation

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





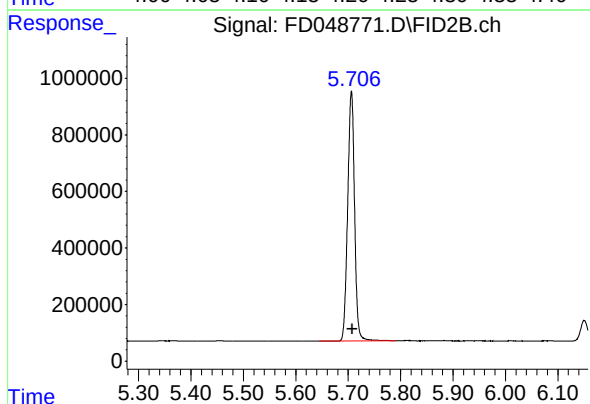
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.189 min  
Delta R.T.: -0.002 min  
Response: 6923954  
Conc: 36.74 ug/ml

Instrument :  
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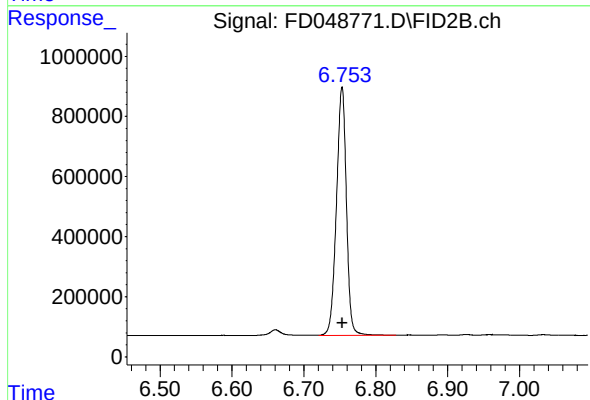
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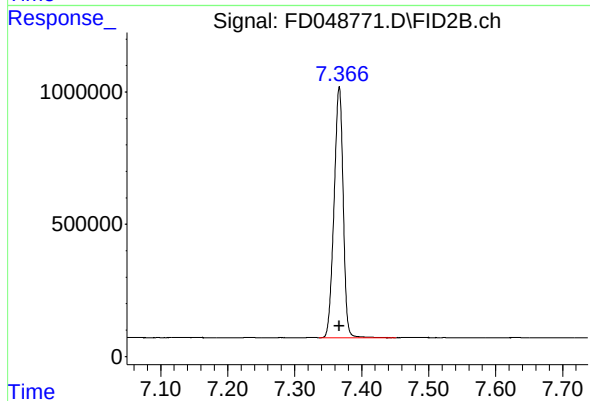
#2 Naphthalene (C11.7)

R.T.: 5.706 min  
Delta R.T.: -0.002 min  
Response: 8056151  
Conc: 41.19 ug/ml



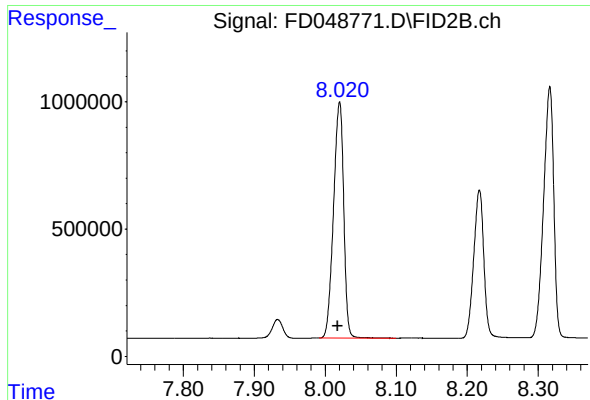
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.753 min  
Delta R.T.: 0.000 min  
Response: 7956887  
Conc: 41.64 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.366 min  
Delta R.T.: 0.000 min  
Response: 8969471  
Conc: 50.95 ug/ml



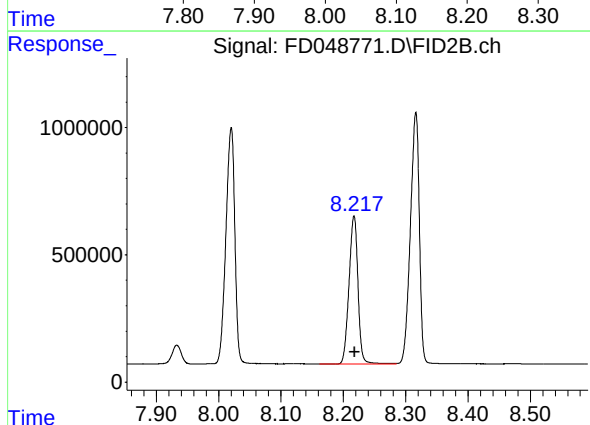
#5 Acenaphthylene (C15.06)

R.T.: 8.020 min  
Delta R.T.: 0.002 min  
Response: 9254488  
Conc: 47.72 ug/ml

Instrument :  
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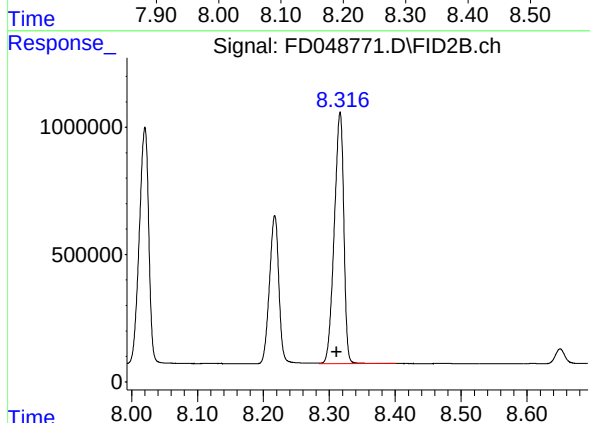
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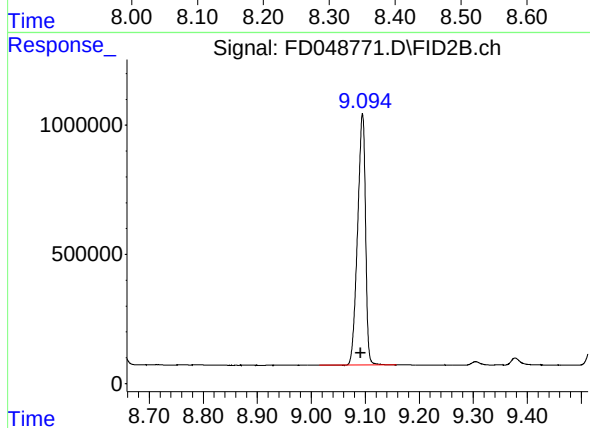
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.217 min  
Delta R.T.: -0.001 min  
Response: 5798672  
Conc: 50.35 ug/ml



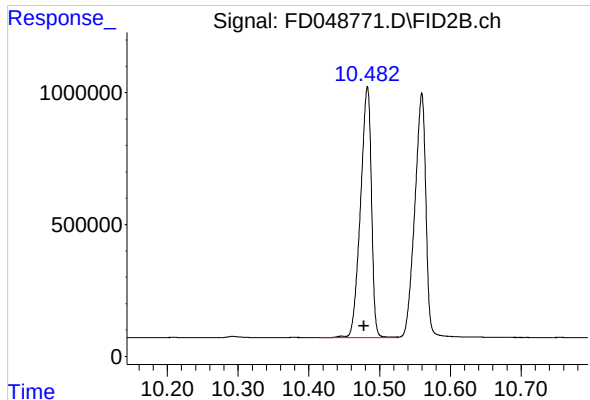
#7 Acenaphthene (C15.5)

R.T.: 8.316 min  
Delta R.T.: 0.005 min  
Response: 9889760  
Conc: 51.42 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.094 min  
Delta R.T.: 0.003 min  
Response: 9947391  
Conc: 51.85 ug/ml



#9 Phenanthrene (C19.36)

R.T.: 10.482 min  
Delta R.T.: 0.004 min  
Response: 10226984  
Conc: 55.79 ug/ml

Instrument :

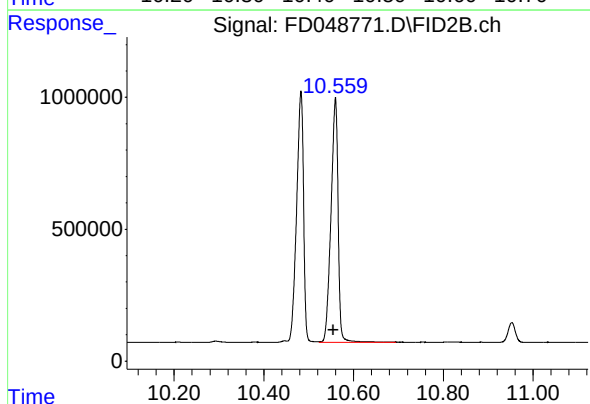
FID\_D

ClientSampleId :

EX-4-TPH-6MSD

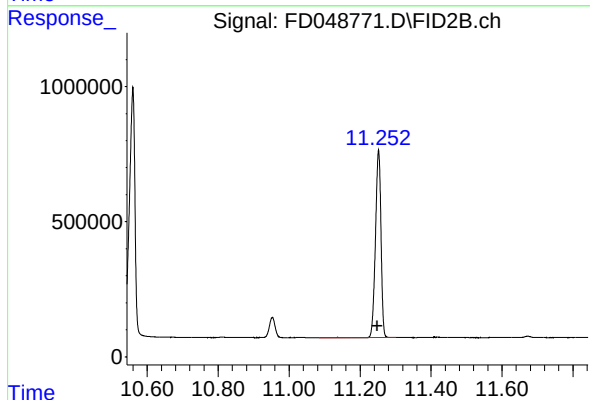
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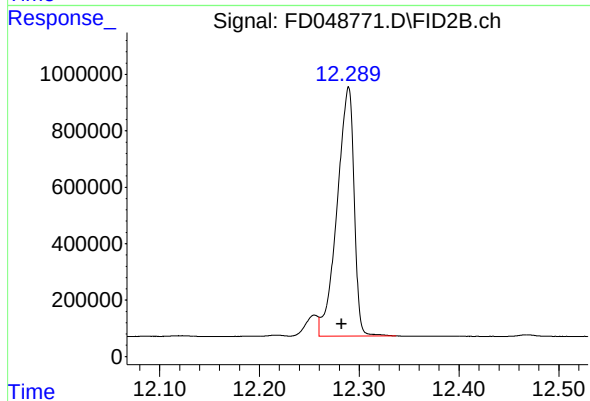
#10 Anthracene (C19.43)

R.T.: 10.559 min  
Delta R.T.: 0.005 min  
Response: 10224393  
Conc: 54.60 ug/ml



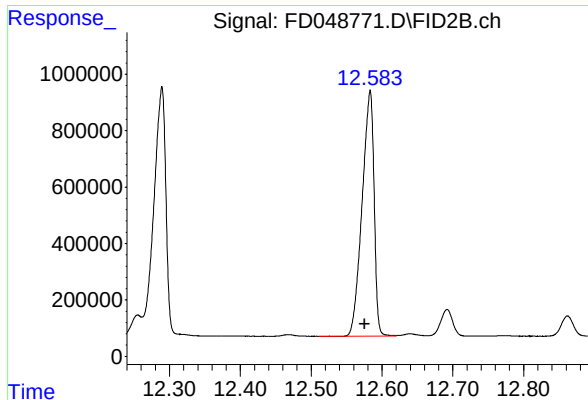
#11 ortho-Terphenyl (SURR)

R.T.: 11.252 min  
Delta R.T.: 0.003 min  
Response: 7428539  
Conc: 38.62 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.289 min  
Delta R.T.: 0.007 min  
Response: 10443203  
Conc: 57.03 ug/ml m



#13 Pyrene (C20.8)

R.T.: 12.583 min  
Delta R.T.: 0.007 min  
Response: 10226558  
Conc: 56.56 ug/ml

Instrument :

FID\_D

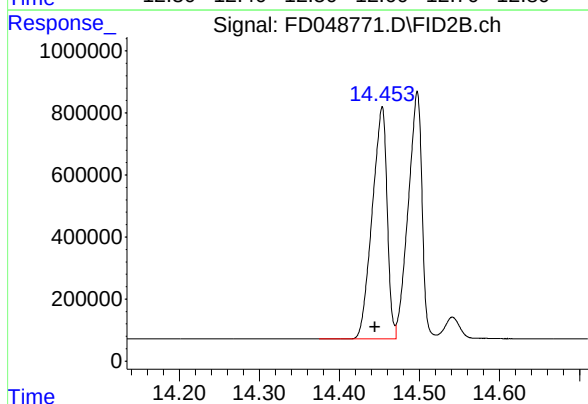
ClientSampleId :

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Manual Integrations

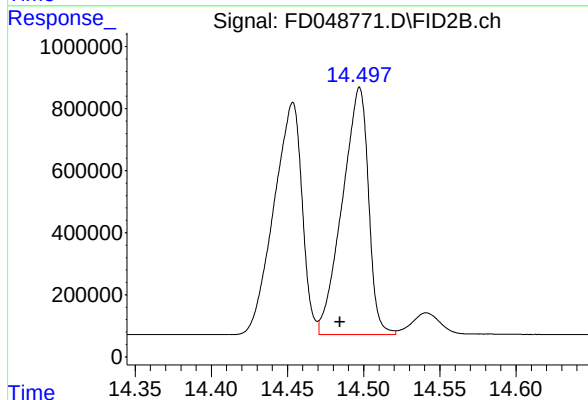
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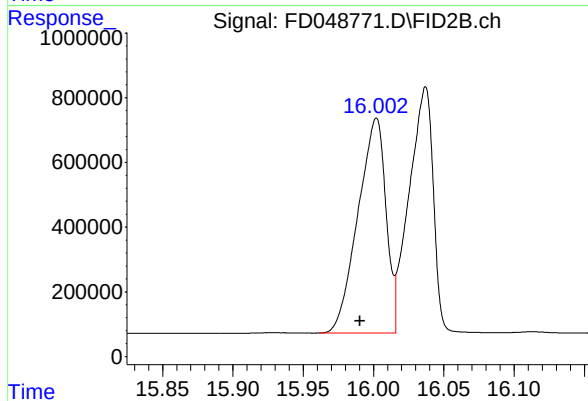
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.453 min  
Delta R.T.: 0.008 min  
Response: 9664307  
Conc: 58.75 ug/ml



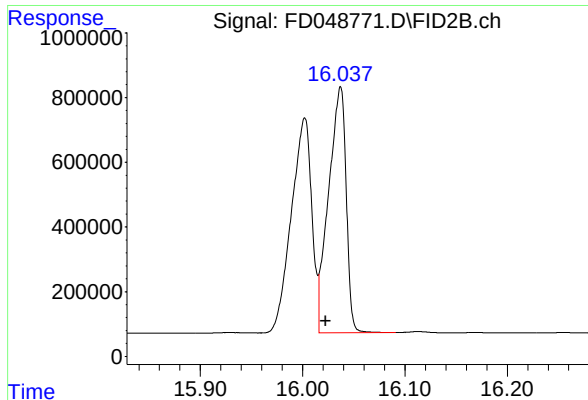
#15 Chrysene (C27.41)

R.T.: 14.497 min  
Delta R.T.: 0.012 min  
Response: 9525573  
Conc: 54.43 ug/ml



#16 benzo[b]fluoranthene (C30.41)

R.T.: 16.001 min  
Delta R.T.: 0.011 min  
Response: 9229697  
Conc: 58.74 ug/ml



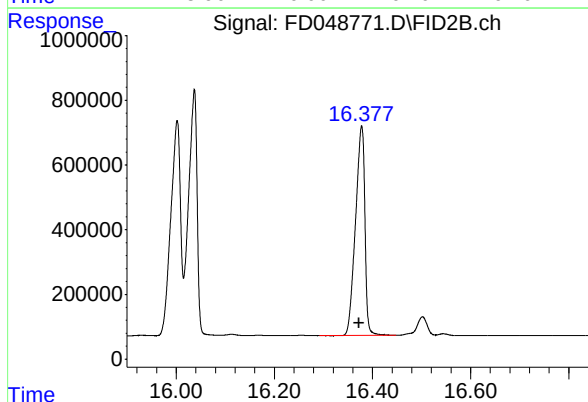
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.036 min  
Delta R.T.: 0.014 min  
Response: 9076756  
Conc: 55.62 ug/ml

Instrument :  
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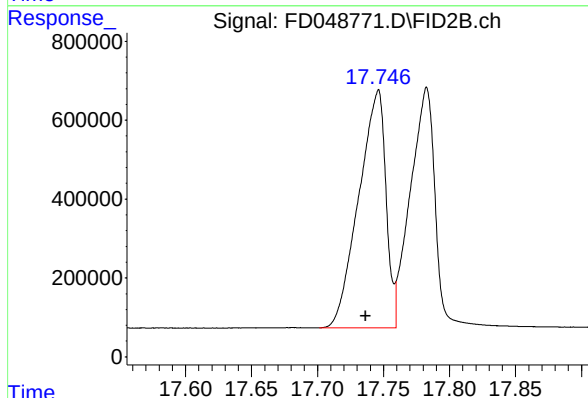
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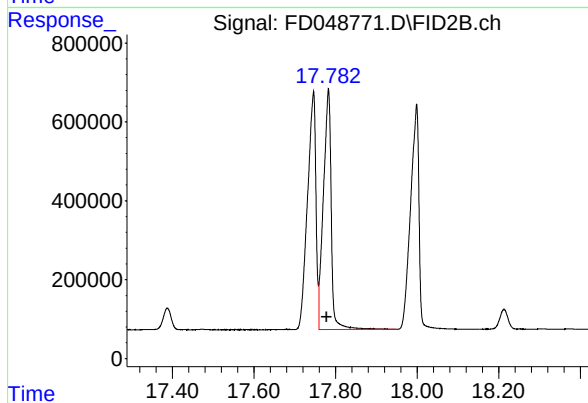
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.377 min  
Delta R.T.: 0.005 min  
Response: 8602414  
Conc: 57.70 ug/ml



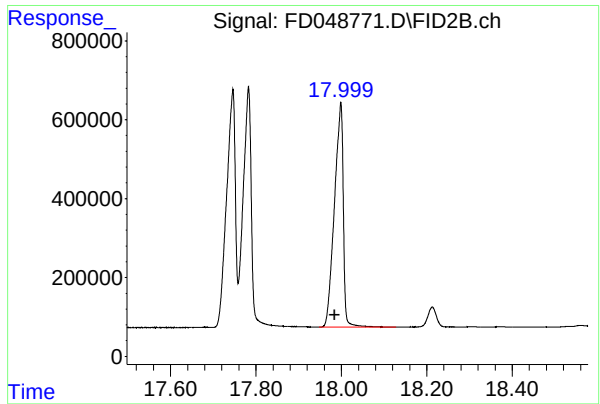
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.745 min  
Delta R.T.: 0.008 min  
Response: 8630374  
Conc: 69.86 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.782 min  
Delta R.T.: 0.003 min  
Response: 8113945  
Conc: 51.74 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.997 min  
Delta R.T.: 0.013 min  
Response: 8210524  
Conc: 57.54 ug/ml

Instrument :

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