

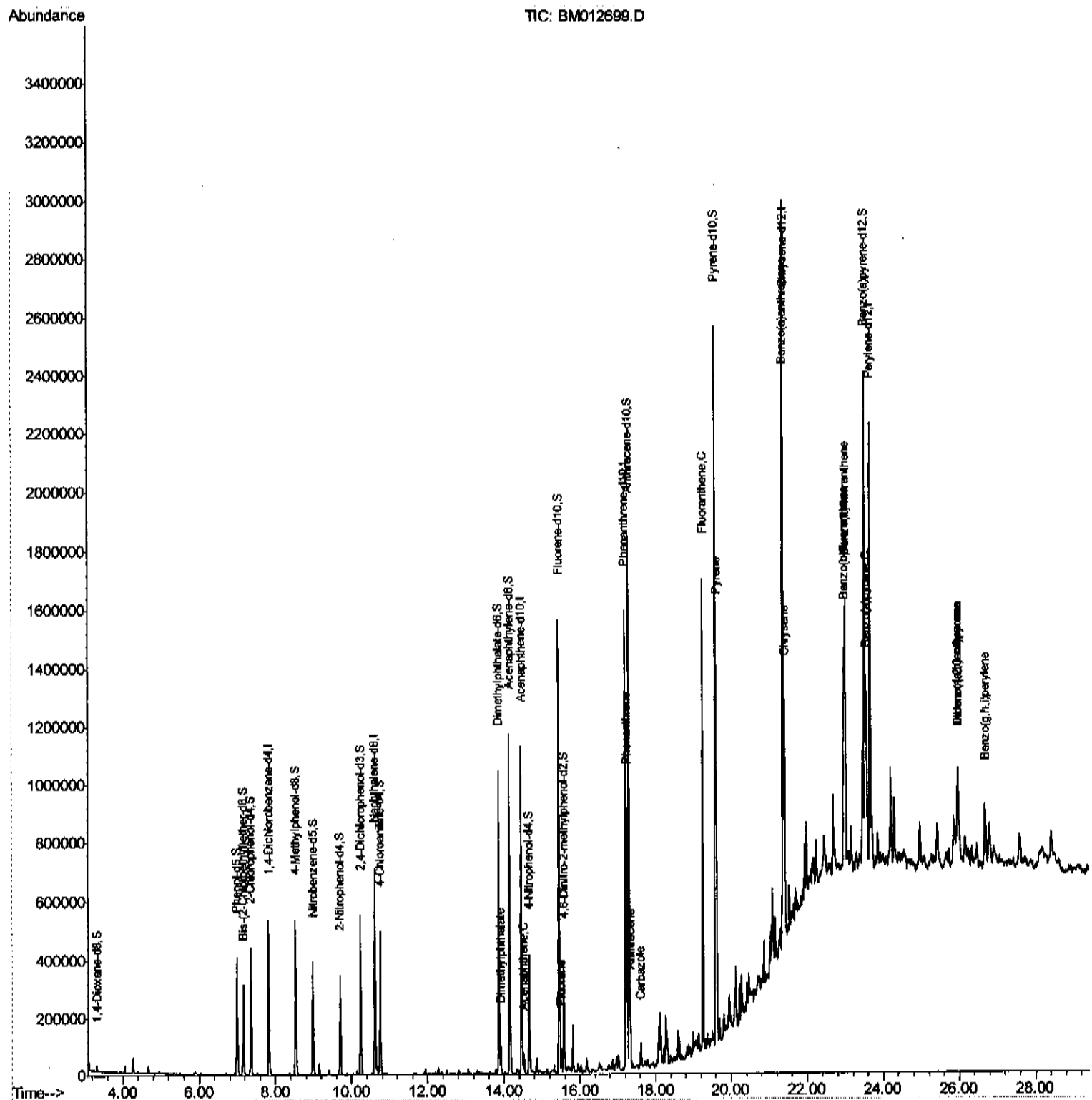
Data Path : Z:\HPCHEM1\BNA\_M\Data\BM110217\  
 Data File : BM012699.D  
 Acq On : 03 Nov 2017 12:46  
 Operator : SJ/JU  
 Sample : I6110-05  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampled :  
 CB3N1

Manual Integrations  
 APPROVED

Sohil  
 11/3/2017 4:54:42 PM

Quant Time: Nov 03 15:02:40 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102417.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Nov 03 14:42:43 2017  
 Response via : Initial Calibration



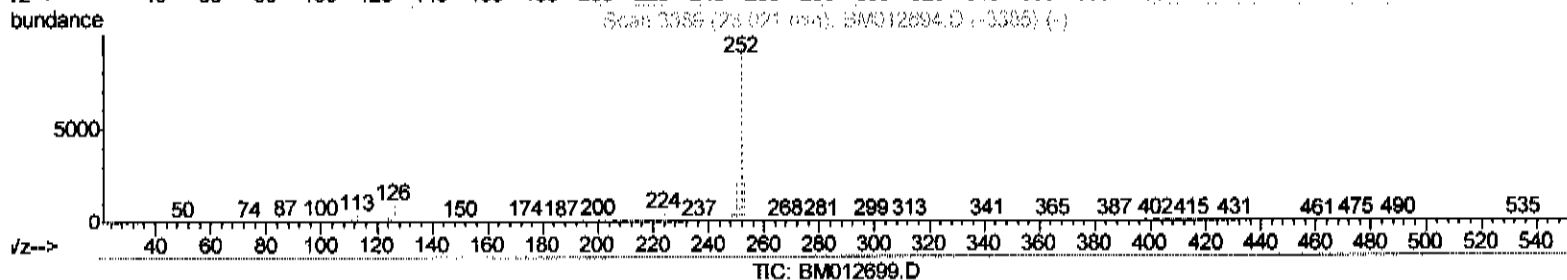
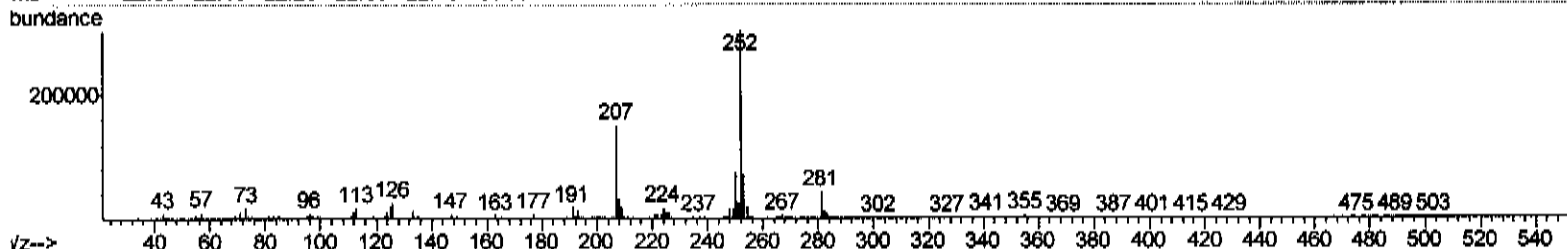
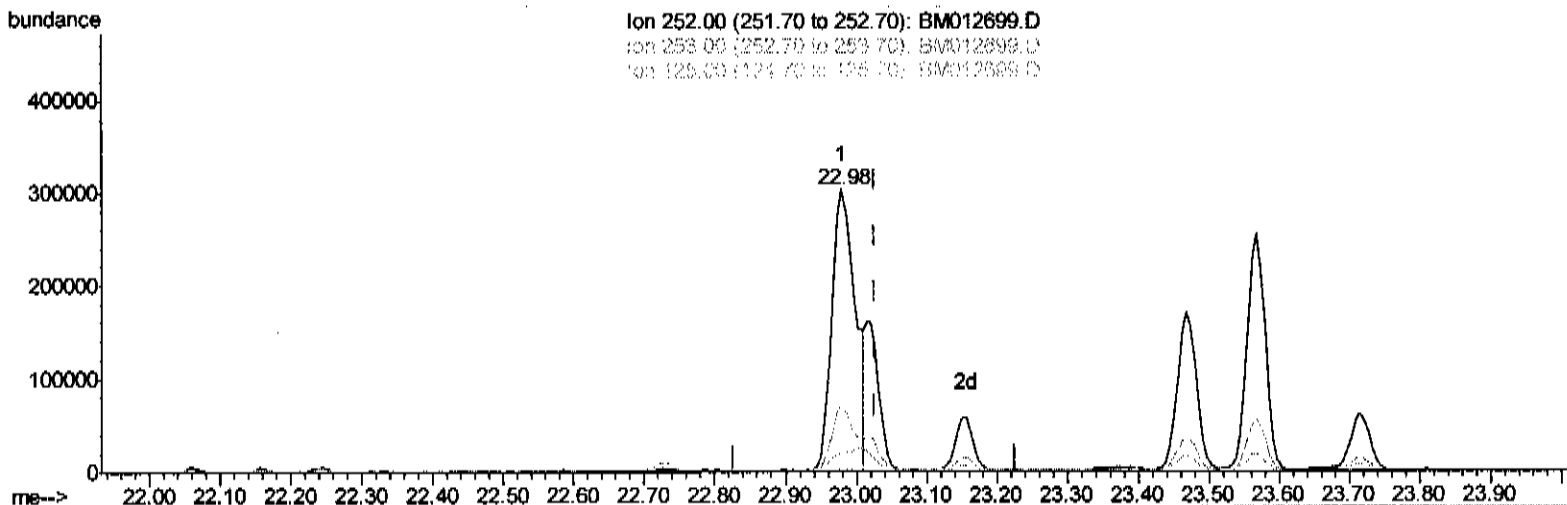
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(86) Benzo(k)fluoranthene

22.980min (-0.047) 10.09ng/ul

response 693450

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 21.40 | 23.07 |
| 125.00 | 4.30  | 7.16# |
| 0.00   | 0.00  | 0.00  |

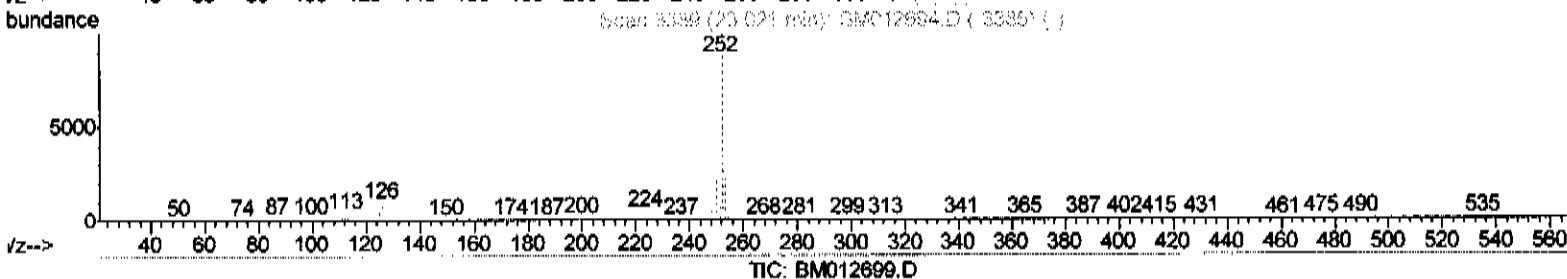
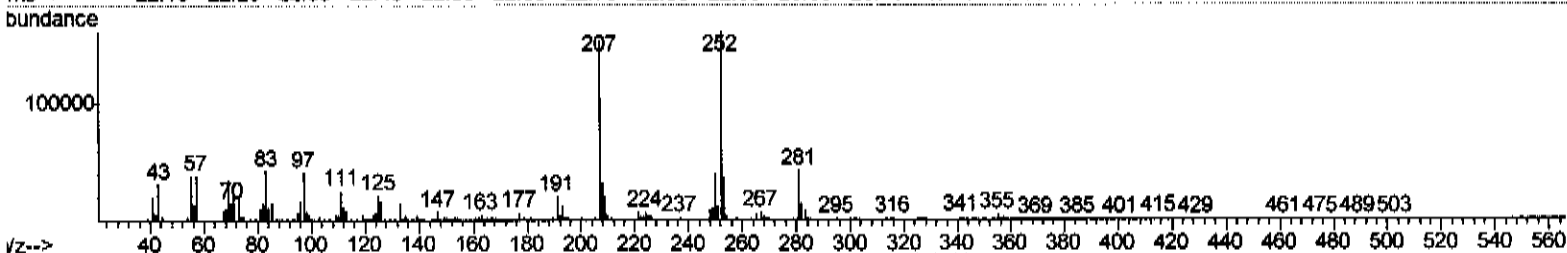
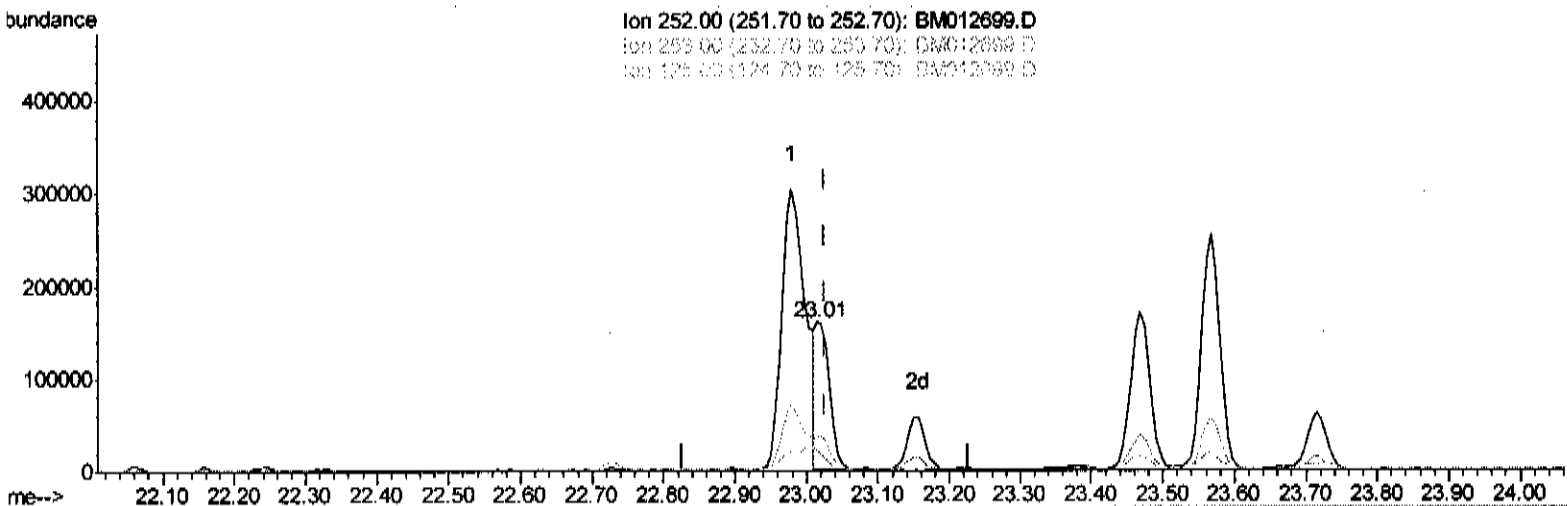
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 CB3N1

Manual Integrations  
 APPROVED

Sohil  
 11/3/2017 4:54:42 PM

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 Quant Method : z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102417.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Nov 03 14:42:43 2017  
 Response via : Initial Calibration



(86) Benzo(k)fluoranthene

23.015min (-0.012) 3.09ng/ul m

*Ju 11/06/17*

response 212707

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 21.40 | 22.73  |
| 125.00 | 4.30  | 13.21# |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\HPCHEM1\BNA\_M\Data\BM110217\  
 Data File : BM012699.D  
 Acq On : 03 Nov 2017 12:46  
 Operator : SJ/JU  
 Sample : I6110-05  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampled :  
 CB3N1

Manual Integrations  
 APPROVED

Sohil  
 11/3/2017 4:54:42 PM

Quant Time: Nov 03 15:02:40 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102417.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Nov 03 14:42:43 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82  | 152  | 147133   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.61 | 136  | 596672   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.46 | 164  | 375376   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.20 | 188  | 910535   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.38 | 240  | 1083015  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.67 | 264  | 1181566  | 20.00 | ng/ul | 0.00     |

| System Monitoring Compounds    | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 3) 1,4-Dioxane-d8              | 3.32  | 96   | 11611    | 4.03  | ng/uL | 0.00     |
| 5) Phenol-d5                   | 6.99  | 99   | 230855   | 18.78 | ng/ul | 0.00     |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.16  | 67   | 128978   | 17.68 | ng/ul | 0.00     |
| 9) 2-Chlorophenol-d4           | 7.36  | 132  | 199102   | 21.63 | ng/ul | 0.00     |
| 13) 4-Methylphenol-d8          | 8.53  | 113  | 200455   | 19.08 | ng/ul | 0.00     |
| 19) Nitrobenzene-d5            | 8.97  | 128  | 98838    | 26.45 | ng/ul | 0.00     |
| 22) 2-Nitrophenol-d4           | 9.70  | 143  | 113140   | 29.39 | ng/ul | 0.00     |
| 26) 2,4-Dichlorophenol-d3      | 10.23 | 165  | 215435   | 21.13 | ng/ul | 0.00     |
| 29) 4-Chloroaniline-d4         | 10.75 | 131  | 265131   | 24.66 | ng/ul | 0.00     |
| 43) Dimethylphthalate-d6       | 13.87 | 166  | 720786   | 21.98 | ng/ul | 0.00     |
| 46) Acenaphthylene-d8          | 14.15 | 160  | 846757   | 21.83 | ng/ul | 0.00     |
| 51) 4-Nitrophenol-d4           | 14.66 | 143  | 109480   | 22.46 | ng/ul | 0.00     |
| 57) Fluorene-d10               | 15.45 | 176  | 626289   | 22.56 | ng/ul | 0.00     |
| 62) 4,6-Dinitro-2-methylphenol | 15.57 | 200  | 95029    | 21.57 | ng/ul | 0.00     |
| 70) Anthracene-d10             | 17.30 | 188  | 991410   | 22.85 | ng/ul | 0.00     |
| 76) Pyrene-d10                 | 19.59 | 212  | 1151762  | 23.18 | ng/ul | 0.00     |
| 87) Benzo(a)pyrene-d12         | 23.52 | 264  | 1299590  | 23.15 | ng/ul | 0.00     |

| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 44) Dimethylphthalate      | 13.92 | 163  | 59265    | 1.827  | ng/ul# | 98     |
| 49) Acenaphthene           | 14.52 | 153  | 28561    | 1.126  | ng/ul  | 96     |
| 58) Fluorene               | 15.50 | 166  | 34283    | 1.080  | ng/ul# | 97     |
| 69) Phenanthrene           | 17.24 | 178  | 549537   | 11.160 | ng/ul  | 99     |
| 71) Anthracene             | 17.33 | 178  | 110322   | 2.168  | ng/ul  | 98     |
| 72) Carbazole              | 17.60 | 167  | 50271    | 1.192  | ng/ul  | 99     |
| 74) Fluoranthene           | 19.26 | 202  | 945771   | 16.951 | ng/ul# | 94     |
| 77) Pyrene                 | 19.62 | 202  | 820030   | 13.315 | ng/ul# | 94     |
| 80) Benzo(a)anthracene     | 21.36 | 228  | 500979   | 7.725  | ng/ul  | 97     |
| 82) Chrysene               | 21.42 | 228  | 466654   | 8.093  | ng/ul  | 97     |
| 85) Benzo(b)fluoranthene   | 22.98 | 252  | 693450   | 9.494  | ng/ul# | 97     |
| 86) Benzo(k)fluoranthene   | 23.01 | 252  | 212707m  | 3.094  | ng/ul  | >      |
| 88) Benzo(a)pyrene         | 23.57 | 252  | 455513   | 6.541  | ng/ul# | 98     |
| 89) Indeno(1,2,3-cd)pyrene | 25.98 | 276  | 343854   | 4.195  | ng/ul  | 98     |
| 90) Dibenzo(a,h)anthracene | 25.99 | 278  | 93267    | 1.342  | ng/ul# | 92     |
| 91) Benzo(g,h,i)perylene   | 26.69 | 276  | 288660   | 4.346  | ng/ul  | 96     |

JU 11/06/17

(#) = qualifier out of range (m) = manual integration (+) = signals summed