

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM061017\  
Data File : BM010483.D  
Acq On : 10 Jun 2017 13:46  
Operator : SJ/MA  
Sample : I3521-02  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

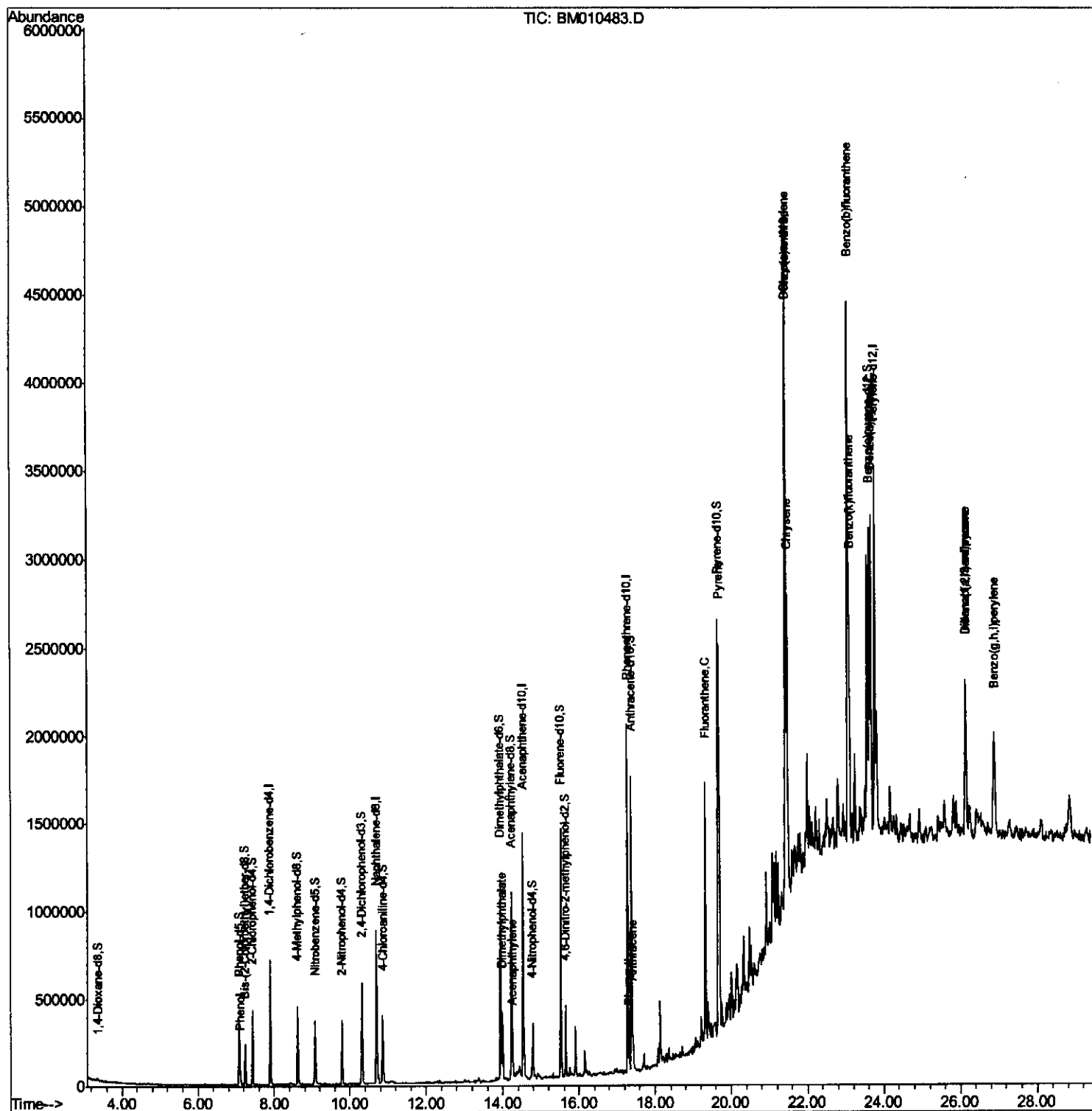
Instrument :  
BNA\_M  
Client Sample ID :  
F5C18

Manual Integrations  
APPROVED

mohammad

6/12/2017 3:40:37 PM

Quant Time: Jun 12 06:13:00 2017  
Quant Method : Z:\HPCHEM1\BNA\_M\Methods\SOM-EPA-BM052717.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Jun 12 04:15:09 2017  
Response via : Initial Calibration



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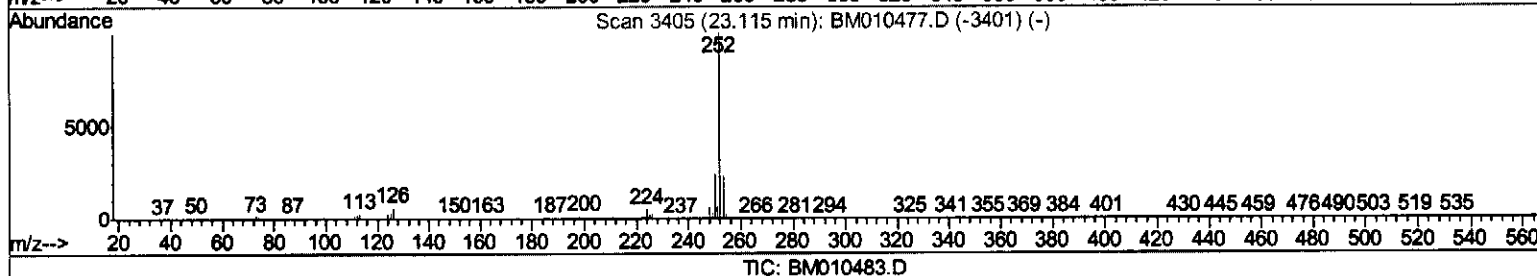
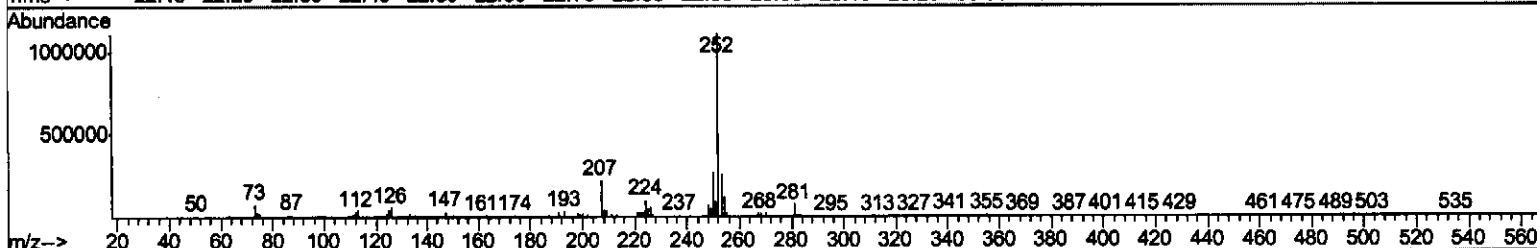
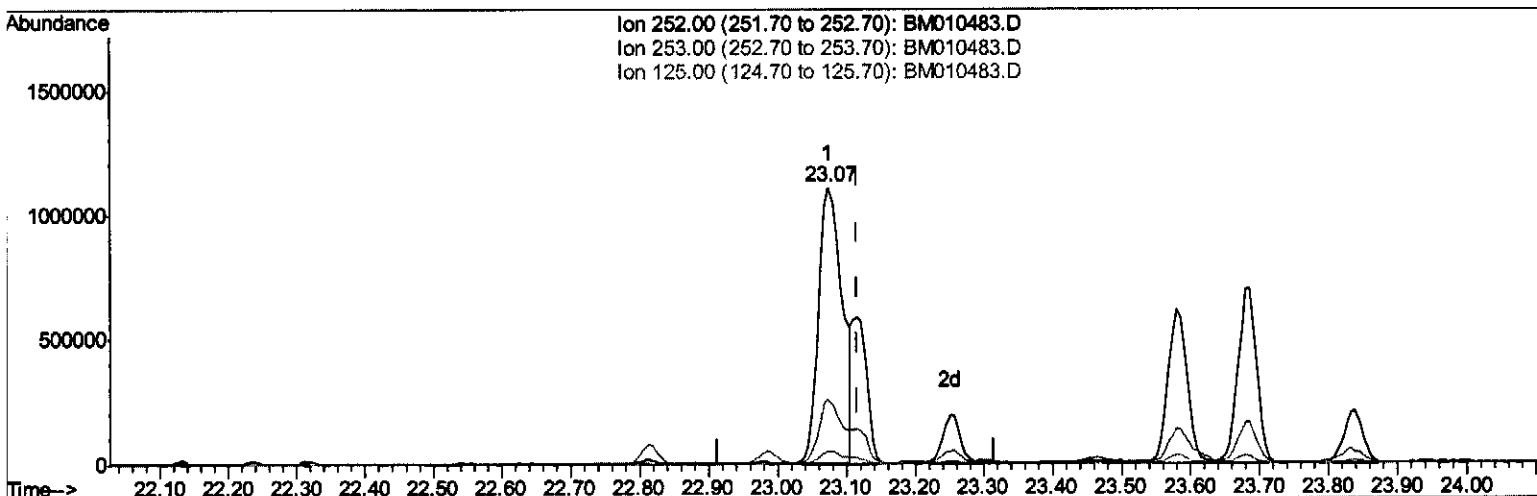
Instrument :  
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ClientSampled :  
F5C18

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6/12/2017 3:40:37 PM

Quant Time: Jun 12 04:16:46 2017  
Quant Method : Z:\HPCHEM1\BNA\_M\Methods\SOM-EPA-BM052717.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Jun 12 04:15:09 2017  
Response via : Initial Calibration



(86) Benzo(k)fluoranthene

23.074min (-0.041) 30.31ng/ui

response 2607307

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 21.40 | 23.32 |
| 125.00 | 4.30  | 4.41  |
| 0.00   | 0.00  | 0.00  |

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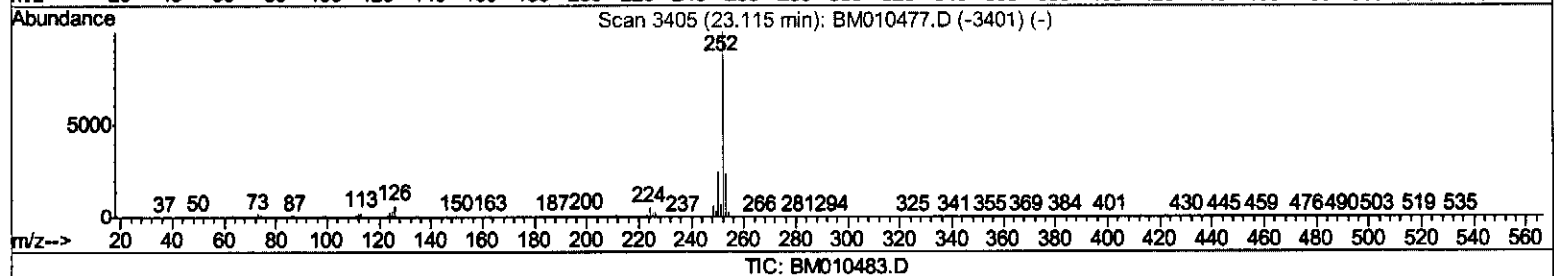
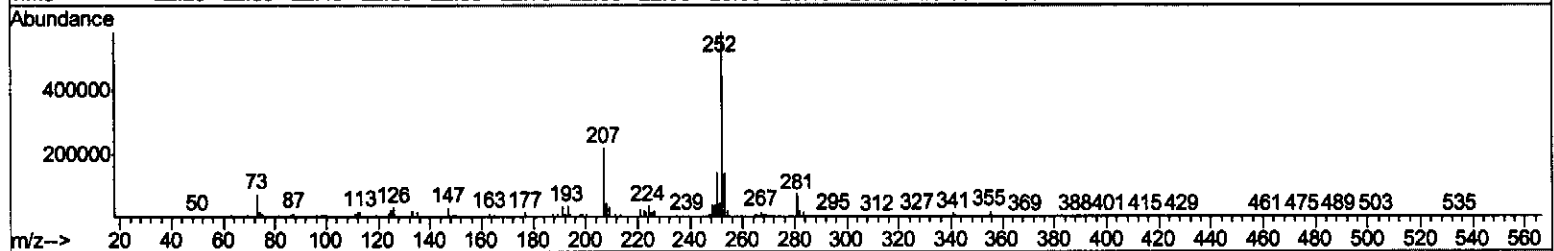
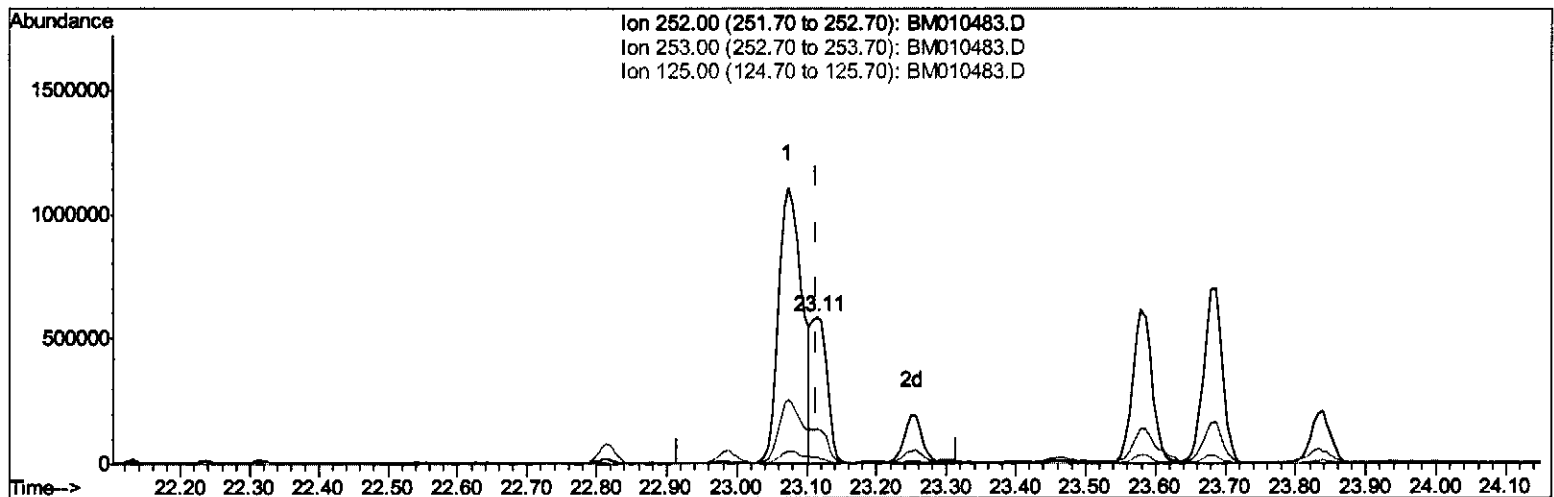
Instrument :  
BNA\_M  
Client Sampled :  
F5C18

Manual Integrations  
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Quant Time: Jun 12 04:16:46 2017  
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Quant Title : SVOA CALIBRATION  
QLast Update : Mon Jun 12 04:15:09 2017  
Response via : Initial Calibration



(86) Benzo(k)fluoranthene

23.115min (-0.000) 10.12ng/ul m

response 870484

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 21.40 | 24.34 |
| 125.00 | 4.30  | 3.95  |
| 0.00   | 0.00  | 0.00  |

*SJ*  
*06/19/17*

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 Data File : BM010483.D  
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 Operator : SJ/MA  
 Sample : I3521-02  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F5C18

Manual Integrations  
 APPROVED

mohammad

6/12/2017 3:40:37 PM

Quant Time: Jun 12 06:13:00 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\Methods\SOM-EPA-BM052717.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Jun 12 04:15:09 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.89  | 152  | 157545   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.70 | 136  | 586303   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.53 | 164  | 406337   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.28 | 188  | 1037649  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.45 | 240  | 1501869  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.79 | 264  | 1547351  | 20.00 | ng/ul | 0.00     |

#### System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.37  | 96  | 8944    | 2.33  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.08  | 99  | 160954  | 13.48 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.24  | 67  | 94553   | 14.09 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.43  | 132 | 143275  | 15.06 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.62  | 113 | 139423  | 14.47 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.08  | 128 | 67887   | 15.81 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.79  | 143 | 84697   | 17.02 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.32 | 165 | 175983  | 17.22 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.87 | 131 | 156724  | 15.89 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.94 | 166 | 603293  | 17.87 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.23 | 160 | 645654  | 16.39 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.77 | 143 | 62284   | 12.33 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.52 | 176 | 517749  | 17.45 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.65 | 200 | 94632   | 12.88 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.38 | 188 | 861660  | 17.07 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.67 | 212 | 1131105 | 18.21 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.64 | 264 | 1251115 | 17.37 | ng/ul | 0.00 |

#### Target Compounds

|                            |       |     |         |               | Qvalue |
|----------------------------|-------|-----|---------|---------------|--------|
| 6) Phenol                  | 7.11  | 94  | 14292   | 1.168 ng/ul#  | 84     |
| 44) Dimethylphthalate      | 13.99 | 163 | 200830  | 6.049 ng/ul#  | 96     |
| 47) Acenaphthylene         | 14.26 | 152 | 82597   | 2.146 ng/ul   | 94     |
| 69) Phenanthrene           | 17.32 | 178 | 56969   | 1.028 ng/ul   | 95     |
| 71) Anthracene             | 17.42 | 178 | 139706  | 2.416 ng/ul   | 98     |
| 74) Fluoranthene           | 19.33 | 202 | 864299  | 12.688 ng/ul# | 96     |
| 77) Pyrene                 | 19.70 | 202 | 1306436 | 16.881 ng/ul# | 94     |
| 80) Benzo(a)anthracene     | 21.43 | 228 | 1071275 | 12.649 ng/ul  | 96     |
| 82) Chrysene               | 21.49 | 228 | 720754  | 9.414 ng/ul   | 97     |
| 85) Benzo(b)fluoranthene   | 23.07 | 252 | 2607307 | 28.958 ng/ul  | 98     |
| 86) Benzo(k)fluoranthene   | 23.11 | 252 | 870484m | 10.120 ng/ul  | 98     |
| 88) Benzo(a)pyrene         | 23.69 | 252 | 1304038 | 14.611 ng/ul  | 98     |
| 89) Indeno(1,2,3-cd)pyrene | 26.16 | 276 | 915620  | 8.120 ng/ul#  | 94     |
| 90) Dibenzo(a,h)anthracene | 26.16 | 278 | 249431  | 2.569 ng/ul#  | 90     |
| 91) Benzo(g,h,i)perylene   | 26.90 | 276 | 679900  | 7.319 ng/ul   | 97     |

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