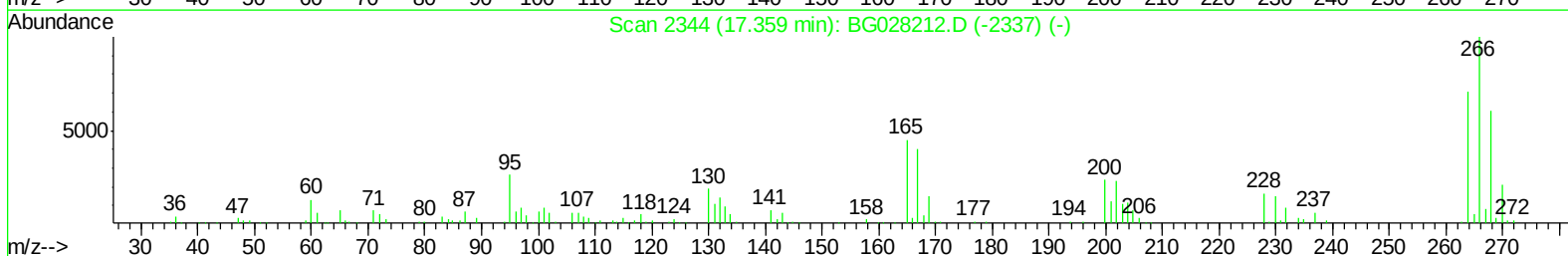
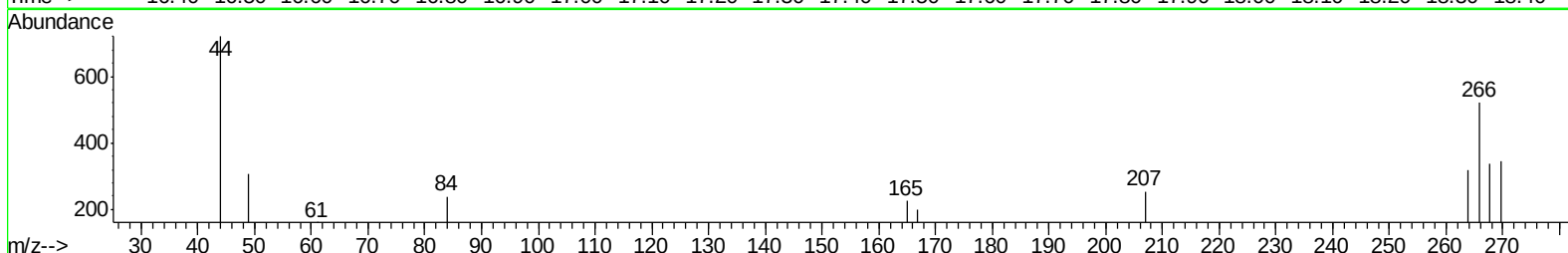
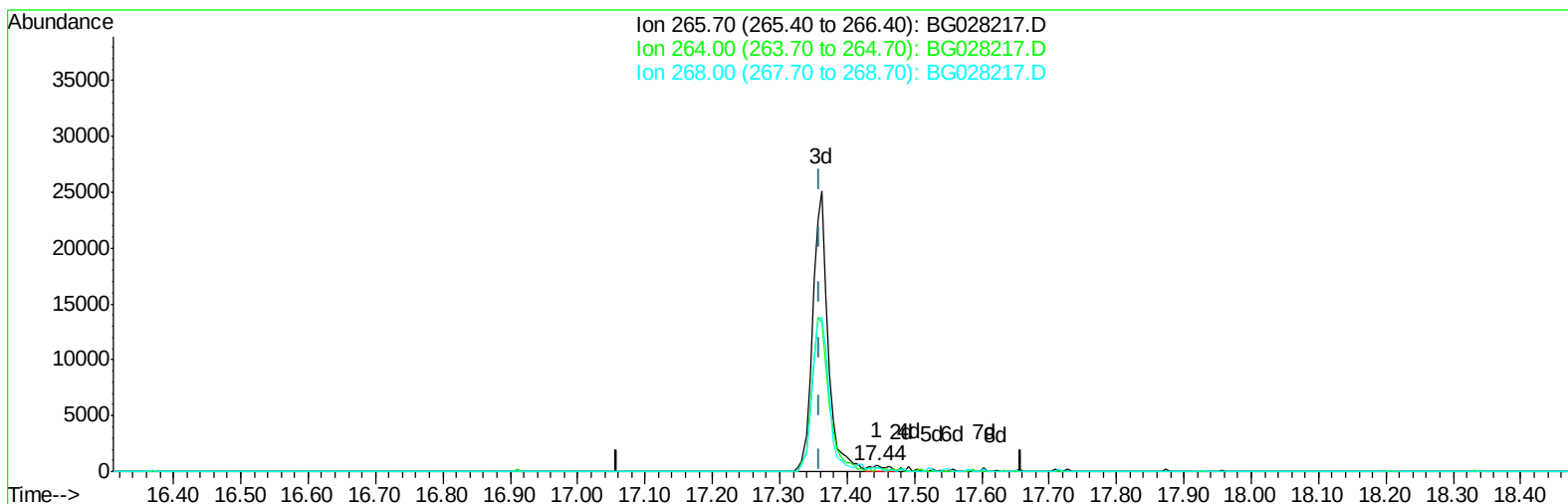


Data Path : Z:\HPCHEM1\BNA\_G\Data\BG080817\  
 Data File : BG028217.D  
 Acq On : 9 Aug 2017 8:54  
 Operator : SJ/JU  
 Sample : SSTDCCC020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 17:47:01 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080217.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Aug 09 08:20:51 2017  
 Response via : Initial Calibration



TIC: BG028217.D

(68) Pentachlorophenol (C)

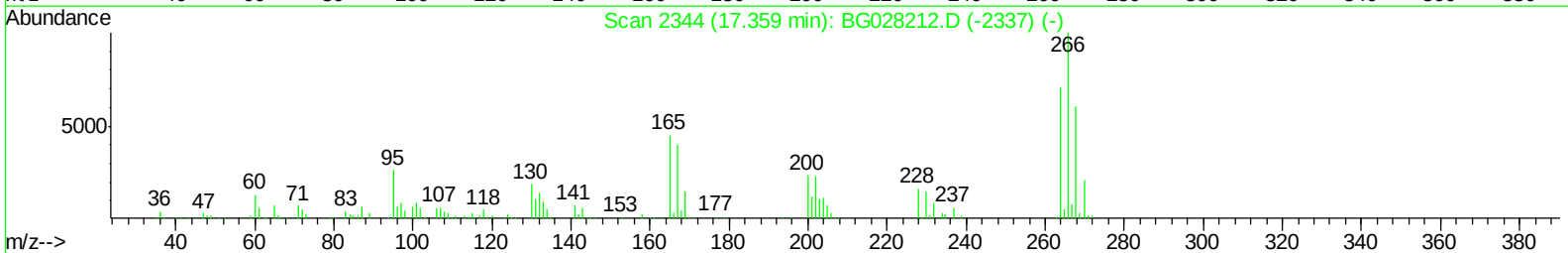
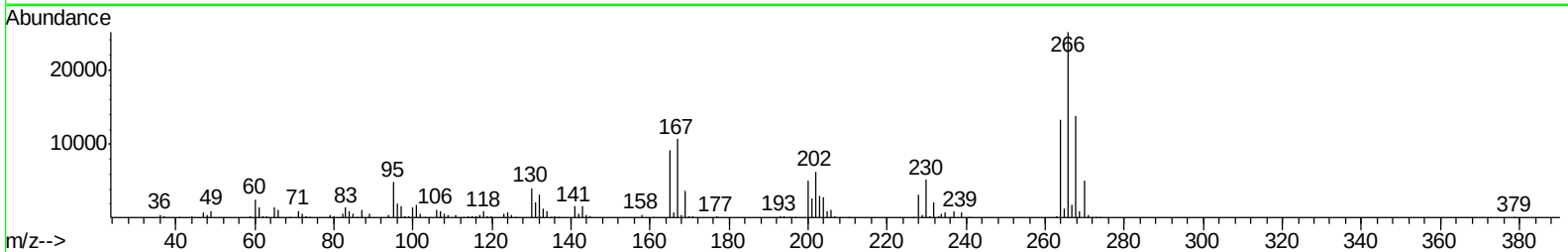
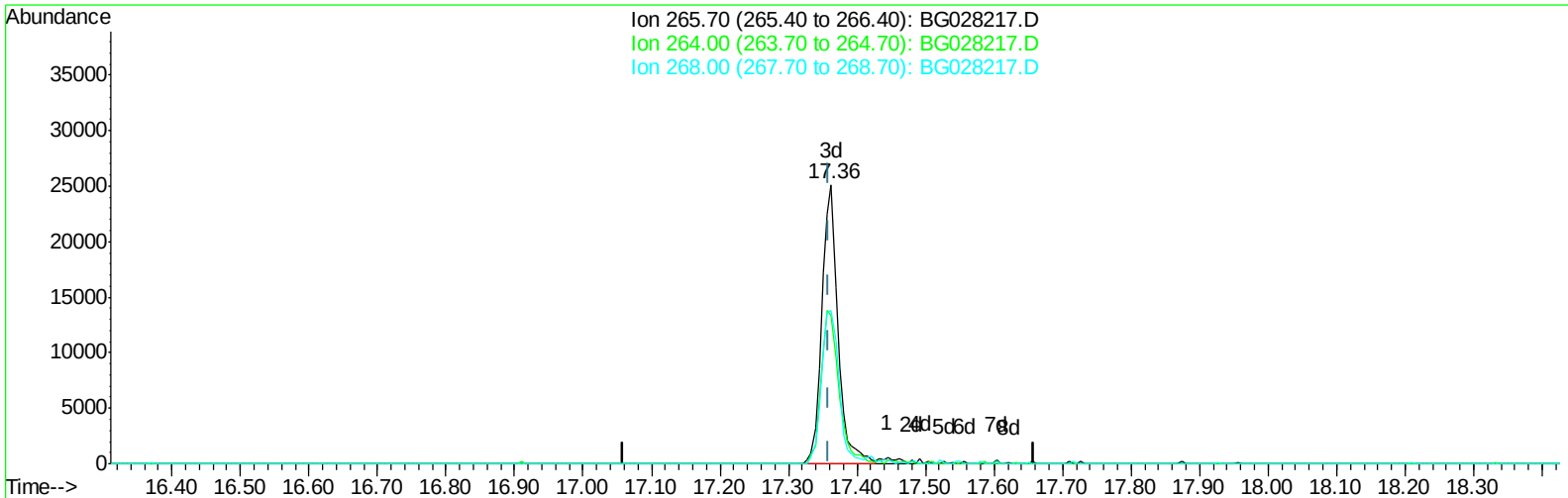
17.445min (+0.085) 0.49ng/ul

response 951

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 265.70 | 100   | 100   |
| 264.00 | 58.90 | 60.80 |
| 268.00 | 70.30 | 64.44 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG080817\  
Data File : BG028217.D  
Acq On : 9 Aug 2017 8:54  
Operator : SJ/JU  
Sample : SSTDCCC020EC  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 17:47:01 2017  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080217.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Aug 09 08:20:51 2017  
Response via : Initial Calibration



TIC: BG028217.D

(68) Pentachlorophenol (C)

17.362min (+0.003) 20.99ng/ul m

response 40548

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 265.70 | 100   | 100    |
| 264.00 | 58.90 | 53.23  |
| 268.00 | 70.30 | 55.11# |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG080817\  
 Data File : BG08217.D  
 Acq On : 9 Aug 2017 8:54  
 Operator : SJ/JU  
 Sample : SSTDCCC020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 17:49:38 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080217.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Aug 09 08:20:51 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.36  | 152  | 34134    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.18 | 136  | 159791   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.97 | 164  | 122566   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.71 | 188  | 333321   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 22.04 | 240  | 376043   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.54 | 264  | 346450   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.84  | 96  | 5912   | 8.07  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.50  | 99  | 69359  | 18.50 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.67  | 67  | 44340  | 18.68 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.89  | 132 | 46368  | 19.61 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 9.04  | 113 | 58588  | 18.70 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.52  | 128 | 24404  | 19.53 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.25 | 143 | 30258  | 22.09 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.79 | 165 | 58364  | 20.59 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.30 | 131 | 72951  | 23.12 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.35 | 166 | 220911 | 20.26 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.66 | 160 | 250365 | 20.37 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.15 | 143 | 34515  | 19.91 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.95 | 176 | 197522 | 20.20 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 16.06 | 200 | 43610  | 20.14 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.81 | 188 | 319251 | 19.97 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 20.08 | 212 | 369993 | 19.19 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.30 | 264 | 324981 | 20.04 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |        | Qvalue    |
|--------------------------------|-------|-----|--------|--------|-----------|
| 2) 1,4-Dioxane                 | 3.88  | 88  | 7148   | 9.285  | ng/uL# 87 |
| 4) Benzaldehyde                | 7.50  | 77  | 45060  | 20.799 | ng/ul 85  |
| 6) Phenol                      | 7.53  | 94  | 69642  | 18.692 | ng/ul 91  |
| 8) Bis(2-Chloroethyl)ether     | 7.76  | 93  | 49721  | 19.591 | ng/ul 91  |
| 10) 2-Chlorophenol             | 7.92  | 128 | 45367  | 19.685 | ng/ul 97  |
| 11) 2-Methylphenol             | 8.78  | 108 | 47839  | 18.191 | ng/ul 98  |
| 12) 2,2'-oxybis(1-Chloropropan | 8.88  | 45  | 114163 | 18.531 | ng/ul 96  |
| 14) Acetophenone               | 9.18  | 105 | 85907  | 19.225 | ng/ul 89  |
| 15) N-Nitroso-di-n-propylamine | 9.15  | 70  | 50635  | 19.938 | ng/ul 89  |
| 16) 4-Methylphenol             | 9.11  | 108 | 56752  | 19.112 | ng/ul 98  |
| 17) Hexachloroethane           | 9.45  | 117 | 18215  | 19.073 | ng/ul# 89 |
| 20) Nitrobenzene               | 9.57  | 77  | 70917  | 19.606 | ng/ul 95  |
| 21) Isophorone                 | 10.08 | 82  | 140121 | 20.391 | ng/ul 96  |
| 23) 2-Nitrophenol              | 10.28 | 139 | 27960  | 20.216 | ng/ul 97  |
| 24) 2,4-Dimethylphenol         | 10.32 | 107 | 71199  | 20.712 | ng/ul 92  |
| 25) Bis(2-Chloroethoxy)methane | 10.56 | 93  | 72320  | 19.321 | ng/ul# 89 |
| 27) 2,4-Dichlorophenol         | 10.82 | 162 | 52979  | 20.532 | ng/ul 94  |
| 28) Naphthalene                | 11.23 | 128 | 157733 | 19.931 | ng/ul 98  |
| 30) 4-Chloroaniline            | 11.33 | 127 | 68347  | 22.347 | ng/ul 91  |
| 31) Hexachlorobutadiene        | 11.50 | 225 | 40199  | 21.106 | ng/ul 90  |
| 32) Caprolactam                | 12.08 | 113 | 23179  | 21.603 | ng/ul 86  |
| 33) 4-Chloro-3-methylphenol    | 12.43 | 107 | 70622  | 21.442 | ng/ul 98  |
| 34) 2-Methylnaphthalene        | 12.81 | 142 | 130919 | 20.595 | ng/ul 96  |

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG080817\  
 Data File : BG08217.D  
 Acq On : 9 Aug 2017 8:54  
 Operator : SJ/JU  
 Sample : SSTDCCC020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 17:49:38 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080217.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Aug 09 08:20:51 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 36) 1,2,4,5-Tetrachlorobenzene | 13.17 | 216  | 77052    | 19.504 | ng/ul  | 95       |
| 37) Hexachlorocyclopentadiene  | 13.14 | 237  | 39664    | 18.195 | ng/ul# | 99       |
| 38) 2,4,6-Trichlorophenol      | 13.40 | 196  | 53434    | 21.701 | ng/ul  | 93       |
| 39) 2,4,5-Trichlorophenol      | 13.48 | 196  | 59252    | 22.077 | ng/ul  | 95       |
| 40) 1,1'-Biphenyl              | 13.80 | 154  | 179195   | 20.018 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.84 | 162  | 135508   | 19.155 | ng/ul  | 95       |
| 42) 2-Nitroaniline             | 14.05 | 65   | 60059    | 20.249 | ng/ul  | 99       |
| 44) Dimethylphthalate          | 14.40 | 163  | 202004   | 20.125 | ng/ul  | 100      |
| 45) 2,6-Dinitrotoluene         | 14.53 | 165  | 45714    | 22.058 | ng/ul# | 93       |
| 47) Acenaphthylene             | 14.69 | 152  | 231670   | 19.723 | ng/ul  | 97       |
| 48) 3-Nitroaniline             | 14.87 | 138  | 39740    | 21.296 | ng/ul# | 91       |
| 49) Acenaphthene               | 15.02 | 153  | 158152   | 19.956 | ng/ul  | 97       |
| 50) 2,4-Dinitrophenol          | 15.07 | 184  | 25893    | 22.175 | ng/ul# | 89       |
| 52) 4-Nitrophenol              | 15.17 | 109  | 37891    | 21.098 | ng/ul  | 95       |
| 53) Dibenzofuran               | 15.36 | 168  | 230488   | 19.947 | ng/ul  | 100      |
| 54) 2,4-Dinitrotoluene         | 15.32 | 165  | 66534    | 21.184 | ng/ul# | 87       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.58 | 232  | 57467    | 22.990 | ng/ul  | 98       |
| 56) Diethylphthalate           | 15.75 | 149  | 236971   | 20.125 | ng/ul  | 98       |
| 58) Fluorene                   | 16.01 | 166  | 206436   | 20.179 | ng/ul  | 98       |
| 59) 4-Chlorophenyl-phenylether | 15.99 | 204  | 109115   | 19.880 | ng/ul# | 87       |
| 60) 4-Nitroaniline             | 16.03 | 138  | 45974    | 20.766 | ng/ul  | 82       |
| 63) 4,6-Dinitro-2-methylphenol | 16.08 | 198  | 44414    | 20.229 | ng/ul# | 98       |
| 64) N-Nitrosodiphenylamine     | 16.21 | 169  | 175097   | 19.968 | ng/ul  | 97       |
| 65) 4-Bromophenyl-phenylether  | 16.89 | 248  | 73724    | 20.579 | ng/ul  | 90       |
| 66) Hexachlorobenzene          | 17.02 | 284  | 80511    | 21.110 | ng/ul  | 97       |
| 67) Atrazine                   | 17.15 | 200  | 76738    | 20.072 | ng/ul  | 93       |
| 68) Pentachlorophenol          | 17.36 | 266  | 40548m   | 20.990 | ng/ul  |          |
| 69) Phenanthrene               | 17.75 | 178  | 331620   | 19.769 | ng/ul  | 99       |
| 71) Anthracene                 | 17.84 | 178  | 344660   | 20.104 | ng/ul  | 100      |
| 72) Carbazole                  | 18.11 | 167  | 298417   | 20.014 | ng/ul  | 98       |
| 73) Di-n-butylphthalate        | 18.64 | 149  | 370330   | 19.952 | ng/ul  | 97       |
| 74) Fluoranthene               | 19.75 | 202  | 413558   | 20.286 | ng/ul  | 98       |
| 77) Pyrene                     | 20.11 | 202  | 424452   | 18.919 | ng/ul  | 99       |
| 78) Butylbenzylphthalate       | 20.98 | 149  | 166136   | 19.767 | ng/ul  | 95       |
| 79) 3,3'-Dichlorobenzidine     | 21.92 | 252  | 135245   | 18.642 | ng/ul# | 89       |
| 80) Benzo(a)anthracene         | 22.02 | 228  | 422876   | 19.463 | ng/ul  | 98       |
| 81) Bis(2-ethylhexyl)phthalate | 21.88 | 149  | 237890   | 19.902 | ng/ul  | 97       |
| 82) Chrysene                   | 22.09 | 228  | 383494   | 19.598 | ng/ul  | 97       |
| 84) Di-n-octyl phthalate       | 23.19 | 149  | 404596   | 19.487 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 24.42 | 252  | 417745   | 20.150 | ng/ul# | 97       |
| 86) Benzo(k)fluoranthene       | 24.50 | 252  | 400801   | 19.792 | ng/ul# | 97       |
| 88) Benzo(a)pyrene             | 25.38 | 252  | 401937   | 20.023 | ng/ul  | 99       |
| 89) Indeno(1,2,3-cd)pyrene     | 29.57 | 276  | 476860   | 20.286 | ng/ul  | 99       |
| 90) Dibenzo(a,h)anthracene     | 29.62 | 278  | 396148   | 20.107 | ng/ul  | 96       |
| 91) Benzo(g,h,i)perylene       | 30.82 | 276  | 384020   | 19.858 | ng/ul  | 98       |
| -----                          |       |      |          |        |        |          |

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

