

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG021915\  
 Data File : BG016025.D  
 Acq On : 20 Feb 2015 8:05  
 Operator : TP/IZ  
 Sample : SSTDCCC020  
 Misc : MDL-SOIL-3PPM-SOM0-ML  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 20 10:15:34 2015

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM01.2-EPA-MA-BG021915.M

Quant Title : SVOA CALIBRATION

QLast Update : Fri Feb 20 05:38:39 2015

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.81  | 152  | 92967    | 20.00 | ng/ul | 0.00     |
| 16) Naphthalene-d8        | 10.60 | 136  | 410972   | 20.00 | ng/ul | 0.00     |
| 33) Acenaphthene-d10      | 14.44 | 164  | 248399   | 20.00 | ng/ul | 0.00     |
| 59) Phenanthrene-d10      | 17.17 | 188  | 530320   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.35 | 240  | 593162   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.65 | 264  | 568450   | 20.00 | ng/ul | 0.00     |

#### System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) Phenol-d5                   | 6.97  | 99  | 170436 | 19.27 | ng/ul | 0.00 |
| 5) Bis-(2-Chloroethyl)ether-d  | 7.15  | 67  | 101008 | 19.34 | ng/ul | 0.00 |
| 7) 2-Chlorophenol-d4           | 7.34  | 132 | 127198 | 19.44 | ng/ul | 0.00 |
| 11) 4-Methylphenol-d8          | 8.51  | 113 | 126556 | 19.33 | ng/ul | 0.00 |
| 17) Nitrobenzene-d5            | 8.96  | 128 | 59603  | 20.52 | ng/ul | 0.00 |
| 20) 2-Nitrophenol-d4           | 9.68  | 143 | 54377  | 20.29 | ng/ul | 0.00 |
| 24) 2,4-Dichlorophenol-d3      | 10.22 | 165 | 113580 | 19.54 | ng/ul | 0.00 |
| 27) 4-Chloroaniline-d4         | 10.73 | 131 | 139519 | 21.79 | ng/ul | 0.00 |
| 41) Dimethylphthalate-d6       | 13.85 | 166 | 328243 | 19.76 | ng/ul | 0.00 |
| 44) Acenaphthylene-d8          | 14.13 | 160 | 459782 | 19.56 | ng/ul | 0.00 |
| 49) 4-Nitrophenol-d4           | 14.62 | 143 | 67359  | 20.17 | ng/ul | 0.00 |
| 55) Fluorene-d10               | 15.43 | 176 | 327596 | 19.63 | ng/ul | 0.00 |
| 60) 4,6-Dinitro-2-methylphenol | 15.54 | 200 | 37907  | 18.54 | ng/ul | 0.00 |
| 68) Anthracene-d10             | 17.27 | 188 | 498754 | 19.83 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.56 | 212 | 549294 | 19.71 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.50 | 264 | 507254 | 19.68 | ng/ul | 0.00 |

#### Target Compounds

|                                |       |     |        |       |       | Qvalue |
|--------------------------------|-------|-----|--------|-------|-------|--------|
| 2) Benzaldehyde                | 6.95  | 77  | 108441 | 19.40 | ng/ul | 98     |
| 4) Phenol                      | 7.00  | 94  | 182041 | 19.53 | ng/ul | 99     |
| 6) Bis(2-Chloroethyl)ether     | 7.23  | 93  | 140436 | 19.16 | ng/ul | 99     |
| 8) 2-Chlorophenol              | 7.38  | 128 | 129468 | 19.70 | ng/ul | 97     |
| 9) 2-Methylphenol              | 8.24  | 108 | 125934 | 18.98 | ng/ul | 98     |
| 10) 2,2'-oxybis(1-Chloropropan | 8.34  | 45  | 170480 | 18.29 | ng/ul | 97     |
| 12) Acetophenone               | 8.63  | 105 | 189849 | 19.15 | ng/ul | 99     |
| 13) N-Nitroso-di-n-propylamine | 8.61  | 70  | 102432 | 18.33 | ng/ul | 99     |
| 14) 4-Methylphenol             | 8.57  | 108 | 144423 | 19.69 | ng/ul | 94     |
| 15) Hexachloroethane           | 8.88  | 117 | 49706  | 19.07 | ng/ul | 97     |
| 18) Nitrobenzene               | 9.01  | 77  | 139043 | 20.46 | ng/ul | 99     |
| 19) Isophorone                 | 9.53  | 82  | 275197 | 18.59 | ng/ul | 98     |
| 21) 2-Nitrophenol              | 9.71  | 139 | 62930  | 20.85 | ng/ul | 95     |
| 22) 2,4-Dimethylphenol         | 9.77  | 107 | 140197 | 19.32 | ng/ul | 99     |
| 23) Bis(2-Chloroethoxy)methane | 10.01 | 93  | 177491 | 19.23 | ng/ul | 98     |
| 25) 2,4-Dichlorophenol         | 10.24 | 162 | 112540 | 19.75 | ng/ul | 96     |
| 26) Naphthalene                | 10.65 | 128 | 426170 | 19.43 | ng/ul | 99     |
| 28) 4-Chloroaniline            | 10.75 | 127 | 136651 | 21.91 | ng/ul | 100    |
| 29) Hexachlorobutadiene        | 10.93 | 225 | 60728  | 19.04 | ng/ul | 99     |
| 30) Caprolactam                | 11.50 | 113 | 50655  | 19.16 | ng/ul | 96     |
| 31) 4-Chloro-3-methylphenol    | 11.87 | 107 | 123669 | 19.02 | ng/ul | 95     |
| 32) 2-Methylnaphthalene        | 12.26 | 142 | 299754 | 19.46 | ng/ul | 100    |
| 34) 1,2,4,5-Tetrachlorobenzene | 12.63 | 216 | 124986 | 18.72 | ng/ul | 97     |
| 35) Hexachlorocyclopentadiene  | 12.61 | 237 | 56328  | 19.05 | ng/ul | 98     |

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 QLast Update : Fri Feb 20 05:38:39 2015  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 36) 2,4,6-Trichlorophenol      | 12.87 | 196  | 72466    | 18.95 | ng/ul  | 93       |
| 37) 2,4,5-Trichlorophenol      | 12.93 | 196  | 83245    | 19.47 | ng/ul  | 95       |
| 38) 1,1'-Biphenyl              | 13.27 | 154  | 370540   | 19.28 | ng/ul  | 96       |
| 39) 2-Chloronaphthalene        | 13.31 | 162  | 274145   | 18.98 | ng/ul  | 99       |
| 40) 2-Nitroaniline             | 13.51 | 65   | 73670    | 20.05 | ng/ul  | 92       |
| 42) Dimethylphthalate          | 13.89 | 163  | 342124   | 19.76 | ng/ul  | 99       |
| 43) 2,6-Dinitrotoluene         | 14.01 | 165  | 62564    | 20.92 | ng/ul  | 95       |
| 45) Acenaphthylene             | 14.15 | 152  | 489102   | 19.63 | ng/ul  | 100      |
| 46) 3-Nitroaniline             | 14.34 | 138  | 73760    | 22.00 | ng/ul  | 96       |
| 47) Acenaphthene               | 14.50 | 153  | 319106   | 19.30 | ng/ul  | 98       |
| 48) 2,4-Dinitrophenol          | 14.54 | 184  | 17015    | 15.57 | ng/ul  | 91       |
| 50) 4-Nitrophenol              | 14.64 | 109  | 37501    | 19.43 | ng/ul  | 92       |
| 51) Dibenzofuran               | 14.84 | 168  | 431823   | 19.50 | ng/ul  | 100      |
| 52) 2,4-Dinitrotoluene         | 14.79 | 165  | 89070    | 20.80 | ng/ul  | 96       |
| 53) 2,3,4,6-Tetrachlorophenol  | 15.06 | 232  | 66979    | 19.48 | ng/ul# | 95       |
| 54) Diethylphthalate           | 15.26 | 149  | 352035   | 20.07 | ng/ul  | 98       |
| 56) Fluorene                   | 15.48 | 166  | 375246   | 19.42 | ng/ul  | 99       |
| 57) 4-Chlorophenyl-phenylether | 15.48 | 204  | 168359   | 19.31 | ng/ul  | 99       |
| 58) 4-Nitroaniline             | 15.50 | 138  | 99184    | 21.68 | ng/ul  | 98       |
| 61) 4,6-Dinitro-2-methylphenol | 15.55 | 198  | 40381    | 18.42 | ng/ul# | 89       |
| 62) N-Nitrosodiphenylamine     | 15.69 | 169  | 322753   | 19.48 | ng/ul  | 98       |
| 63) 4-Bromophenyl-phenylether  | 16.37 | 248  | 102875   | 18.90 | ng/ul  | 95       |
| 64) Hexachlorobenzene          | 16.48 | 284  | 113519   | 18.42 | ng/ul  | 98       |
| 65) Atrazine                   | 16.64 | 200  | 105878   | 19.84 | ng/ul  | 98       |
| 66) Pentachlorophenol          | 16.83 | 266  | 45586    | 17.57 | ng/ul  | 93       |
| 67) Phenanthrene               | 17.22 | 178  | 578580   | 19.62 | ng/ul  | 99       |
| 69) Anthracene                 | 17.31 | 178  | 596738   | 19.82 | ng/ul  | 99       |
| 70) 1,2,3,4-Tetrachlorobenzene | 13.23 | 216  | 124488   | 18.47 | ng/uL  | 99       |
| 71) Pentachlorobenzene         | 14.75 | 250  | 121882   | 18.45 | ng/uL  | 98       |
| 72) Carbazole                  | 17.58 | 167  | 567872   | 19.99 | ng/ul  | 100      |
| 73) Di-n-butylphthalate        | 18.14 | 149  | 653547   | 21.53 | ng/ul  | 99       |
| 74) Fluoranthene               | 19.23 | 202  | 667071   | 20.68 | ng/ul  | 98       |
| 77) Pyrene                     | 19.59 | 202  | 714105   | 19.79 | ng/ul  | 98       |
| 78) Butylbenzylphthalate       | 20.49 | 149  | 288584   | 20.42 | ng/ul  | 96       |
| 79) 3,3'-Dichlorobenzidine     | 21.27 | 252  | 152452   | 18.73 | ng/ul  | 99       |
| 80) Benzo(a)anthracene         | 21.33 | 228  | 650475   | 19.72 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.27 | 149  | 382216   | 20.62 | ng/ul  | 98       |
| 82) Chrysene                   | 21.39 | 228  | 619425   | 19.71 | ng/ul  | 98       |
| 84) Di-n-octyl phthalate       | 22.16 | 149  | 628692   | 20.91 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 22.95 | 252  | 616793   | 19.45 | ng/ul  | 99       |
| 86) Benzo(k)fluoranthene       | 23.00 | 252  | 630240   | 19.79 | ng/ul  | 100      |
| 88) Benzo(a)pyrene             | 23.55 | 252  | 610530   | 19.39 | ng/ul  | 99       |
| 89) Indeno(1,2,3-cd)pyrene     | 26.01 | 276  | 694683   | 18.97 | ng/ul  | 99       |
| 90) Dibenzo(a,h)anthracene     | 26.03 | 278  | 584103   | 19.07 | ng/ul  | 99       |
| 91) Benzo(g,h,i)perylene       | 26.74 | 276  | 585321   | 19.13 | ng/ul  | 97       |
| -----                          |       |      |          |       |        |          |

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

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