

Data Path : Z:\HPCHEM1\BNA G\DATA\BG080915\  
 Data File : BG018331.D  
 Acq On : 9 Aug 2015 16:36  
 Operator : UM/TP  
 Sample : SSTD08083  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD08083

Manual Integrations  
 APPROVED

MMDadoda  
 8/10/2015 7:25:21 PM

Quant Time: Aug 10 01:23:32 2015  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Aug 10 01:05:19 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.07  | 152  | 80076    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.88 | 136  | 359100   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.69 | 164  | 217379   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.43 | 188  | 500255   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.70 | 240  | 460701   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 24.93 | 264  | 487002   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.52  | 96  | 52553   | 25.21 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.23  | 99  | 582619  | 74.71 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.40  | 67  | 357395  | 73.40 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.60  | 132 | 444644  | 71.11 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.77  | 113 | 488397  | 74.77 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.23  | 128 | 222354  | 70.39 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.95  | 143 | 232229  | 74.35 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.49 | 165 | 479013  | 69.84 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.00 | 131 | 540872  | 67.08 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.10 | 166 | 1316143 | 64.86 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.38 | 160 | 1643275 | 63.96 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.88 | 143 | 262207  | 75.66 | ng/ul | 0.02 |
| 58) Fluorene-d10               | 15.68 | 176 | 1144843 | 63.94 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.80 | 200 | 209809  | 82.06 | ng/ul | 0.02 |
| 71) Anthracene-d10             | 17.53 | 188 | 1694262 | 63.28 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.81 | 212 | 1752149 | 64.31 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.72 | 264 | 1956482 | 67.27 | ng/ul | 0.01 |

## Target Compounds

|                                |       |     |         |       |       | Ovalue |
|--------------------------------|-------|-----|---------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.55  | 88  | 57067   | 25.93 | ng/uL | 87     |
| 4) Benzaldehyde                | 7.21  | 77  | 333415  | 64.43 | ng/ul | 99     |
| 6) Phenol                      | 7.26  | 94  | 592677  | 74.36 | ng/ul | 96     |
| 8) Bis(2-Chloroethyl)ether     | 7.49  | 93  | 451212  | 72.86 | ng/ul | 100    |
| 10) 2-Chlorophenol             | 7.64  | 128 | 453745  | 69.79 | ng/ul | 93     |
| 11) 2-Methylphenol             | 8.51  | 108 | 459784  | 73.66 | ng/ul | 97     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.61  | 45  | 720267  | 72.58 | ng/ul | 99     |
| 14) Acetophenone               | 8.90  | 105 | 685752  | 70.95 | ng/ul | 96     |
| 15) N-Nitroso-di-n-propylamine | 8.90  | 70  | 384683  | 67.42 | ng/ul | 93     |
| 16) 4-Methylphenol             | 8.84  | 108 | 502430  | 73.61 | ng/ul | 99     |
| 17) Hexachloroethane           | 9.16  | 117 | 186098  | 68.41 | ng/ul | 92     |
| 20) Nitrobenzene               | 9.27  | 77  | 557195  | 70.75 | ng/ul | 97     |
| 21) Isophorone                 | 9.81  | 82  | 1038215 | 67.67 | ng/ul | 98     |
| 23) 2-Nitrophenol              | 9.99  | 139 | 258548  | 75.58 | ng/ul | 98     |
| 24) 2,4-Dimethylphenol         | 10.04 | 107 | 543861  | 67.49 | ng/ul | 98     |
| 25) Bis(2-Chloroethoxy)methane | 10.28 | 93  | 640410  | 67.34 | ng/ul | 98     |
| 27) 2,4-Dichlorophenol         | 10.52 | 162 | 436447  | 68.42 | ng/ul | 98     |
| 28) Naphthalene                | 10.93 | 128 | 1409270 | 65.89 | ng/ul | 97     |
| 30) 4-Chloroaniline            | 11.03 | 127 | 551999  | 67.78 | ng/ul | 98     |
| 31) Hexachlorobutadiene        | 11.22 | 225 | 274790  | 67.23 | ng/ul | 96     |
| 32) Caprolactam                | 11.82 | 113 | 176571m | 71.39 | ng/ul |        |
| 33) 4-Chloro-3-methylphenol    | 12.14 | 107 | 511138  | 68.25 | ng/ul | 99     |
| 34) 2-Methylnaphthalene        | 12.53 | 142 | 1017588 | 65.79 | ng/ul | 99     |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 35) 1-Methylnaphthalene        | 12.74 | 142  | 994175   | 65.53 | ng/ul  | 100      |
| 37) 1,2,4,5-Tetrachlorobenzene | 12.89 | 216  | 525857   | 67.87 | ng/ul  | 96       |
| 38) Hexachlorocyclopentadiene  | 12.87 | 237  | 335205   | 73.81 | ng/ul# | 92       |
| 39) 2,4,6-Trichlorophenol      | 13.13 | 196  | 366902   | 69.22 | ng/ul  | 98       |
| 40) 2,4,5-Trichlorophenol      | 13.20 | 196  | 395294   | 69.99 | ng/ul  | 97       |
| 41) 1,1'-Biphenyl              | 13.53 | 154  | 1293621  | 63.31 | ng/ul  | 97       |
| 42) 2-Chloronaphthalene        | 13.57 | 162  | 1030648  | 65.54 | ng/ul  | 99       |
| 43) 2-Nitroaniline             | 13.77 | 65   | 360965   | 72.00 | ng/ul  | 98       |
| 45) Dimethylphthalate          | 14.15 | 163  | 1278558  | 63.90 | ng/ul  | 97       |
| 46) 2,6-Dinitrotoluene         | 14.27 | 165  | 296618   | 74.69 | ng/ul  | 92       |
| 48) Acenaphthylene             | 14.41 | 152  | 1606685  | 61.95 | ng/ul  | 94       |
| 49) 3-Nitroaniline             | 14.59 | 138  | 289823   | 72.13 | ng/ul  | 97       |
| 50) Acenaphthene               | 14.75 | 153  | 1166070  | 64.38 | ng/ul  | 96       |
| 51) 2,4-Dinitrophenol          | 14.79 | 184  | 152880   | 87.92 | ng/ul# | 75       |
| 53) 4-Nitrophenol              | 14.89 | 109  | 220289   | 72.50 | ng/ul  | 99       |
| 54) Dibenzofuran               | 15.09 | 168  | 1477400  | 62.24 | ng/ul  | 97       |
| 55) 2,4-Dinitrotoluene         | 15.05 | 165  | 418711   | 75.67 | ng/ul  | 98       |
| 56) 2,3,4,6-Tetrachlorophenol  | 15.31 | 232  | 348813   | 70.62 | ng/ul  | 97       |
| 57) Diethylphthalate           | 15.51 | 149  | 1354896  | 63.51 | ng/ul# | 93       |
| 59) Fluorene                   | 15.74 | 166  | 1244650  | 61.68 | ng/ul  | 99       |
| 60) 4-Chlorophenyl-phenylether | 15.73 | 204  | 607119   | 63.05 | ng/ul  | 95       |
| 61) 4-Nitroaniline             | 15.76 | 138  | 306178   | 73.54 | ng/ul  | 97       |
| 64) 4,6-Dinitro-2-methylphenol | 15.81 | 198  | 225530   | 82.43 | ng/ul# | 93       |
| 65) N-Nitrosodiphenylamine     | 15.94 | 169  | 1107127  | 65.32 | ng/ul  | 98       |
| 66) 4-Bromophenyl-phenylether  | 16.62 | 248  | 403858   | 67.98 | ng/ul  | 94       |
| 67) Hexachlorobenzene          | 16.74 | 284  | 436429   | 67.21 | ng/ul  | 98       |
| 68) Atrazine                   | 16.89 | 200  | 438603   | 68.73 | ng/ul  | 98       |
| 69) Pentachlorophenol          | 17.07 | 266  | 308317   | 76.07 | ng/ul  | 95       |
| 70) Phenanthrene               | 17.47 | 178  | 1895224  | 62.51 | ng/ul# | 91       |
| 72) Anthracene                 | 17.57 | 178  | 1870192  | 60.40 | ng/ul# | 91       |
| 73) 1,2,3,4-Tetrachlorobenzene | 13.50 | 216  | 546253   | 69.09 | ng/uL  | 98       |
| 74) Pentachlorobenzene         | 15.01 | 250  | 508771   | 68.41 | ng/uL  | 87       |
| 75) Carbazole                  | 17.83 | 167  | 1822336  | 65.72 | ng/ul  | 95       |
| 76) Di-n-butylphthalate        | 18.40 | 149  | 2072194  | 58.47 | ng/ul# | 92       |
| 77) Fluoranthene               | 19.48 | 202  | 2104951  | 63.35 | ng/ul# | 94       |
| 80) Pvrene                     | 19.84 | 202  | 2075594  | 59.60 | ng/ul# | 93       |
| 81) Butylbenzylphthalate       | 20.73 | 149  | 1019415  | 67.31 | ng/ul  | 98       |
| 82) 3,3'-Dichlorobenzidine     | 21.59 | 252  | 735495   | 67.14 | ng/ul  | 98       |
| 83) Benzo(a)anthracene         | 21.68 | 228  | 2066904  | 63.88 | ng/ul  | 91       |
| 84) Bis(2-ethylhexyl)phthalate | 21.60 | 149  | 1370927  | 64.35 | ng/ul# | 94       |
| 85) Chrysene                   | 21.74 | 228  | 1943658  | 64.76 | ng/ul  | 92       |
| 87) Di-n-octyl phthalate       | 22.83 | 149  | 2342303  | 63.76 | ng/ul  | 100      |
| 88) Benzo(b)fluoranthene       | 23.91 | 252  | 2234415  | 64.56 | ng/ul  | 97       |
| 89) Benzo(k)fluoranthene       | 23.98 | 252  | 2173255  | 64.98 | ng/ul  | 94       |
| 91) Benzo(a)pyrene             | 24.79 | 252  | 2152835  | 65.63 | ng/ul  | 98       |
| 92) Indeno(1,2,3-cd)pyrene     | 28.64 | 276  | 2610459  | 69.05 | ng/ul  | 100      |
| 93) Dibenzo(a,h)anthracene     | 28.71 | 278  | 2144060  | 68.11 | ng/ul  | 98       |
| 94) Benzo(a,h,i)perylene       | 29.80 | 276  | 2173300  | 69.03 | ng/ul  | 96       |

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| Internal Standards                                                         | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

