

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG070915\  
 Data File : BG017807.D  
 Acq On : 9 Jul 2015 14:18  
 Operator : TP/UM  
 Sample : SSTD08042  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD08042

Manual Integrations  
 APPROVED

apatel  
 7/10/2015 1:33:02 PM

Quant Time: Jul 10 04:25:22 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG070915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Jul 10 03:48:26 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.60  | 152  | 62725    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.38 | 136  | 316118   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.25 | 164  | 196079   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.01 | 188  | 419624   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.21 | 240  | 422034   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.43 | 264  | 403455   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |        |       |      |
|--------------------------------|-------|-----|---------|--------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.12  | 96  | 46976   | 29.80  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.78  | 99  | 493424  | 91.78  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.94  | 67  | 279975  | 86.91  | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.13  | 132 | 396397  | 85.96  | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.31  | 113 | 412813  | 92.84  | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.75  | 128 | 214676  | 88.27  | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.47  | 143 | 225276  | 91.65  | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.01 | 165 | 386556  | 84.58  | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.52 | 131 | 511178  | 82.36  | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.68 | 166 | 1130633 | 83.66  | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.95 | 160 | 1388389 | 78.07  | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.48 | 143 | 271544  | 98.82  | ng/ul | 0.01 |
| 57) Fluorene-d10               | 15.26 | 176 | 1029395 | 76.96  | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.39 | 200 | 224828  | 108.32 | ng/ul | 0.01 |
| 70) Anthracene-d10             | 17.11 | 188 | 1502351 | 77.28  | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.41 | 212 | 1553233 | 76.40  | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.30 | 264 | 1622567 | 88.01  | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |        |       | Qvalue |
|--------------------------------|-------|-----|---------|--------|-------|--------|
| 2) 1,4-Dioxane                 | 3.15  | 88  | 47846   | 29.84  | ng/uL | 95     |
| 4) Benzaldehyde                | 6.74  | 77  | 272762  | 81.29  | ng/ul | 96     |
| 6) Phenol                      | 6.80  | 94  | 527938  | 90.97  | ng/ul | 97     |
| 8) Bis(2-Chloroethyl)ether     | 7.03  | 93  | 382566  | 89.43  | ng/ul | 99     |
| 10) 2-Chlorophenol             | 7.16  | 128 | 391823  | 84.89  | ng/ul | 98     |
| 11) 2-Methylphenol             | 8.04  | 108 | 402151  | 94.07  | ng/ul | 99     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.14  | 45  | 566125  | 86.73  | ng/ul | 97     |
| 14) Acetophenone               | 8.42  | 105 | 592746  | 90.65  | ng/ul | 98     |
| 15) N-Nitroso-di-n-propylamine | 8.42  | 70  | 361093  | 87.17  | ng/ul | 94     |
| 16) 4-Methylphenol             | 8.38  | 108 | 446060  | 92.14  | ng/ul | 97     |
| 17) Hexachloroethane           | 8.67  | 117 | 159195  | 81.66  | ng/ul | 96     |
| 20) Nitrobenzene               | 8.79  | 77  | 496073  | 81.15  | ng/ul | 95     |
| 21) Isophorone                 | 9.32  | 82  | 971516  | 83.85  | ng/ul | 95     |
| 23) 2-Nitrophenol              | 9.50  | 139 | 240306  | 89.04  | ng/ul | 97     |
| 24) 2,4-Dimethylphenol         | 9.57  | 107 | 491437  | 82.15  | ng/ul | 100    |
| 25) Bis(2-Chloroethoxy)methane | 9.81  | 93  | 530208  | 81.67  | ng/ul | 99     |
| 27) 2,4-Dichlorophenol         | 10.03 | 162 | 374736  | 81.77  | ng/ul | 97     |
| 28) Naphthalene                | 10.43 | 128 | 1252232 | 75.75  | ng/ul | 98     |
| 30) 4-Chloroaniline            | 10.55 | 127 | 503001  | 81.34  | ng/ul | 95     |
| 31) Hexachlorobutadiene        | 10.72 | 225 | 196147  | 74.76  | ng/ul | 96     |
| 32) Caprolactam                | 11.33 | 113 | 298453m | 120.17 | ng/ul |        |
| 33) 4-Chloro-3-methylphenol    | 11.69 | 107 | 467702  | 83.37  | ng/ul | 96     |
| 34) 2-Methylnaphthalene        | 12.06 | 142 | 929717  | 78.97  | ng/ul | 97     |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.43 | 216  | 412899   | 80.00  | ng/ul  | 97       |
| 37) Hexachlorocyclopentadiene  | 12.41 | 237  | 249727   | 94.23  | ng/ul  | 100      |
| 38) 2,4,6-Trichlorophenol      | 12.68 | 196  | 291653   | 86.33  | ng/ul# | 94       |
| 39) 2,4,5-Trichlorophenol      | 12.75 | 196  | 317332   | 85.35  | ng/ul  | 98       |
| 40) 1,1'-Biphenyl              | 13.08 | 154  | 1145295  | 77.64  | ng/ul  | 97       |
| 41) 2-Chloronaphthalene        | 13.12 | 162  | 890706   | 78.96  | ng/ul  | 97       |
| 42) 2-Nitroaniline             | 13.34 | 65   | 346221   | 89.20  | ng/ul  | 97       |
| 44) Dimethylphthalate          | 13.72 | 163  | 1141277  | 77.42  | ng/ul  | 97       |
| 45) 2,6-Dinitrotoluene         | 13.85 | 165  | 270027   | 90.76  | ng/ul  | 97       |
| 47) Acenaphthylene             | 13.98 | 152  | 1474637  | 75.99  | ng/ul  | 97       |
| 48) 3-Nitroaniline             | 14.17 | 138  | 281285   | 82.31  | ng/ul  | 100      |
| 49) Acenaphthene               | 14.32 | 153  | 1012973  | 77.87  | ng/ul  | 97       |
| 50) 2,4-Dinitrophenol          | 14.38 | 184  | 158759   | 131.18 | ng/ul  | 99       |
| 52) 4-Nitrophenol              | 14.49 | 109  | 216699   | 98.45  | ng/ul  | 98       |
| 53) Dibenzofuran               | 14.66 | 168  | 1352497  | 76.88  | ng/ul  | 97       |
| 54) 2,4-Dinitrotoluene         | 14.64 | 165  | 389756   | 92.99  | ng/ul  | 100      |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.89 | 232  | 280002   | 93.18  | ng/ul  | 99       |
| 56) Diethylphthalate           | 15.11 | 149  | 1241982  | 77.89  | ng/ul  | 94       |
| 58) Fluorene                   | 15.31 | 166  | 1195138  | 76.20  | ng/ul  | 95       |
| 59) 4-Chlorophenyl-phenylether | 15.31 | 204  | 583821   | 80.01  | ng/ul# | 91       |
| 60) 4-Nitroaniline             | 15.35 | 138  | 338894   | 86.71  | ng/ul  | 95       |
| 63) 4,6-Dinitro-2-methylphenol | 15.40 | 198  | 244643   | 111.43 | ng/ul  | 99       |
| 64) N-Nitrosodiphenylamine     | 15.53 | 169  | 1030127  | 79.32  | ng/ul  | 98       |
| 65) 4-Bromophenyl-phenylether  | 16.20 | 248  | 347926   | 82.64  | ng/ul  | 96       |
| 66) Hexachlorobenzene          | 16.32 | 284  | 370928   | 82.83  | ng/ul  | 95       |
| 67) Atrazine                   | 16.49 | 200  | 392982   | 87.94  | ng/ul  | 99       |
| 68) Pentachlorophenol          | 16.66 | 266  | 247962   | 132.86 | ng/ul  | 98       |
| 69) Phenanthrene               | 17.05 | 178  | 1715552  | 73.76  | ng/ul# | 91       |
| 71) Anthracene                 | 17.14 | 178  | 1735186  | 72.33  | ng/ul  | 92       |
| 72) 1,2,3,4-Tetrachlorobenzene | 13.04 | 216  | 410941   | 82.11  | ng/uL  | 95       |
| 73) Pentachlorobenzene         | 14.58 | 250  | 428323   | 83.65  | ng/uL  | 97       |
| 74) Carbazole                  | 17.42 | 167  | 1678077  | 83.48  | ng/ul  | 93       |
| 75) Di-n-butylphthalate        | 18.00 | 149  | 2023947  | 72.97  | ng/ul# | 94       |
| 76) Fluoranthene               | 19.08 | 202  | 1831567  | 80.94  | ng/ul# | 92       |
| 79) Pyrene                     | 19.45 | 202  | 1859137  | 71.28  | ng/ul# | 91       |
| 80) Butylbenzylphthalate       | 20.36 | 149  | 985524   | 82.29  | ng/ul  | 97       |
| 81) 3,3'-Dichlorobenzidine     | 21.13 | 252  | 616686   | 82.85  | ng/ul  | 98       |
| 82) Benzo(a)anthracene         | 21.20 | 228  | 1755976  | 74.63  | ng/ul  | 95       |
| 83) Bis(2-ethylhexyl)phthalate | 21.14 | 149  | 1305422  | 78.43  | ng/ul# | 92       |
| 84) Chrysene                   | 21.25 | 228  | 1651725m | 74.19  | ng/ul  |          |
| 86) Di-n-octyl phthalate       | 22.01 | 149  | 2070537  | 84.32  | ng/ul  | 100      |
| 87) Benzo(b)fluoranthene       | 22.77 | 252  | 1821936  | 78.08  | ng/ul  | 96       |
| 88) Benzo(k)fluoranthene       | 22.81 | 252  | 1698429  | 76.43  | ng/ul  | 94       |
| 90) Benzo(a)pyrene             | 23.34 | 252  | 1761042  | 78.93  | ng/ul# | 93       |
| 91) Indeno(1,2,3-cd)pyrene     | 25.70 | 276  | 2049443  | 84.00  | ng/ul  | 95       |
| 92) Dibenzo(a,h)anthracene     | 25.72 | 278  | 1777268  | 85.54  | ng/ul  | 97       |
| 93) Benzo(g,h,i)perylene       | 26.39 | 276  | 1682959  | 82.27  | ng/ul  | 99       |

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

