

Data Path : Z:\HPCHEM1\BNA G\Data\BG121416\  
 Data File : BG025208.D  
 Acq On : 15 Dec 2016 12:01  
 Operator : UM/SJ  
 Sample : SSTDC0020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD02008

Quant Time: Dec 15 12:52:01 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 15 04:58:54 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.24  | 152  | 109471   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.06 | 136  | 514793   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.86 | 164  | 431467   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.60 | 188  | 926188   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.90 | 240  | 1084247  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.32 | 264  | 1081499  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.59  | 96  | 15886  | 7.50  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.38  | 99  | 203654 | 21.56 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.55  | 67  | 126104 | 21.58 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.77  | 132 | 137265 | 20.78 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.95  | 113 | 175632 | 22.25 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.42  | 128 | 73904  | 20.27 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.14 | 143 | 95305  | 20.97 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.68 | 165 | 188420 | 21.56 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.20 | 131 | 209257 | 24.36 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.25 | 166 | 573096 | 19.31 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.56 | 160 | 672936 | 20.70 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.07 | 143 | 92797  | 18.19 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.84 | 176 | 554085 | 19.83 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.97 | 200 | 118654 | 20.72 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.70 | 188 | 796376 | 20.37 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.97 | 212 | 912737 | 20.44 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.08 | 264 | 911228 | 20.79 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |              | Ovalue |
|--------------------------------|-------|-----|--------|--------------|--------|
| 2) 1,4-Dioxane                 | 3.62  | 88  | 19176  | 6.95 ng/uL#  | 84     |
| 4) Benzaldehyde                | 7.37  | 77  | 151782 | 21.35 ng/ul  | 99     |
| 6) Phenol                      | 7.41  | 94  | 211813 | 21.85 ng/ul  | 95     |
| 8) Bis(2-Chloroethyl)ether     | 7.64  | 93  | 145797 | 20.55 ng/ul  | 97     |
| 10) 2-Chlorophenol             | 7.79  | 128 | 135929 | 20.47 ng/ul  | 94     |
| 11) 2-Methylphenol             | 8.68  | 108 | 149434 | 20.94 ng/ul  | 93     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.76  | 45  | 278236 | 23.07 ng/ul  | 96     |
| 14) Acetophenone               | 9.07  | 105 | 257172 | 21.41 ng/ul# | 90     |
| 15) N-Nitroso-di-n-propylamine | 9.03  | 70  | 149607 | 21.57 ng/ul  | 89     |
| 16) 4-Methylphenol             | 9.01  | 108 | 170061 | 21.42 ng/ul  | 97     |
| 17) Hexachloroethane           | 9.32  | 117 | 59654  | 20.28 ng/ul  | 95     |
| 20) Nitrobenzene               | 9.46  | 77  | 230045 | 20.54 ng/ul  | 99     |
| 21) Isophorone                 | 9.97  | 82  | 422899 | 19.95 ng/ul# | 94     |
| 23) 2-Nitrophenol              | 10.17 | 139 | 92380  | 20.04 ng/ul  | 93     |
| 24) 2,4-Dimethylphenol         | 10.22 | 107 | 220012 | 20.87 ng/ul  | 92     |
| 25) Bis(2-Chloroethoxy)methane | 10.45 | 93  | 218623 | 20.24 ng/ul  | 96     |
| 27) 2,4-Dichlorophenol         | 10.71 | 162 | 179236 | 21.12 ng/ul# | 91     |
| 28) Naphthalene                | 11.11 | 128 | 473330 | 19.78 ng/ul  | 98     |
| 30) 4-Chloroaniline            | 11.23 | 127 | 209378 | 23.84 ng/ul  | 94     |
| 31) Hexachlorobutadiene        | 11.37 | 225 | 138421 | 18.97 ng/ul  | 93     |
| 32) Caprolactam                | 12.00 | 113 | 64236  | 18.23 ng/ul  | 91     |
| 33) 4-Chloro-3-methylphenol    | 12.33 | 107 | 214040 | 20.46 ng/ul  | 97     |
| 34) 2-Methylnaphthalene        | 12.70 | 142 | 378723 | 20.05 ng/ul  | 89     |

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 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD02008

Quant Time: Dec 15 12:52:01 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 15 04:58:54 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 13.06 | 216  | 263082   | 20.23 | ng/ul  | 95       |
| 37) Hexachlorocyclopentadiene  | 13.02 | 237  | 127140   | 16.65 | ng/ul  | 99       |
| 38) 2,4,6-Trichlorophenol      | 13.31 | 196  | 173149   | 21.20 | ng/ul  | 91       |
| 39) 2,4,5-Trichlorophenol      | 13.38 | 196  | 187165   | 20.90 | ng/ul  | 95       |
| 40) 1,1'-Biphenyl              | 13.69 | 154  | 540570   | 20.66 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.75 | 162  | 433786   | 20.83 | ng/ul  | 100      |
| 42) 2-Nitroaniline             | 13.95 | 65   | 184556   | 22.64 | ng/ul  | 92       |
| 44) Dimethylphthalate          | 14.30 | 163  | 574366   | 19.69 | ng/ul  | 97       |
| 45) 2,6-Dinitrotoluene         | 14.43 | 165  | 126140   | 20.13 | ng/ul# | 84       |
| 47) Acenaphthylene             | 14.59 | 152  | 637356   | 20.17 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.77 | 138  | 120244   | 22.15 | ng/ul# | 99       |
| 49) Acenaphthene               | 14.92 | 153  | 451120   | 20.84 | ng/ul  | 94       |
| 50) 2,4-Dinitrophenol          | 14.99 | 184  | 82575    | 20.28 | ng/ul  | 87       |
| 52) 4-Nitrophenol              | 15.08 | 109  | 115604   | 18.84 | ng/ul  | 90       |
| 53) Dibenzofuran               | 15.26 | 168  | 683079   | 19.95 | ng/ul  | 96       |
| 54) 2,4-Dinitrotoluene         | 15.22 | 165  | 180599   | 19.12 | ng/ul  | 97       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.48 | 232  | 182693   | 19.31 | ng/ul# | 97       |
| 56) Diethylphthalate           | 15.64 | 149  | 584440   | 18.92 | ng/ul  | 98       |
| 58) Fluorene                   | 15.90 | 166  | 559957   | 20.09 | ng/ul  | 98       |
| 59) 4-Chlorophenyl-phenylether | 15.88 | 204  | 307509   | 19.59 | ng/ul  | 93       |
| 60) 4-Nitroaniline             | 15.94 | 138  | 115623   | 17.66 | ng/ul  | 92       |
| 63) 4,6-Dinitro-2-methylphenol | 15.99 | 198  | 125603   | 21.17 | ng/ul# | 96       |
| 64) N-Nitrosodiphenylamine     | 16.10 | 169  | 508017   | 21.32 | ng/ul  | 93       |
| 65) 4-Bromophenyl-phenylether  | 16.78 | 248  | 214395   | 20.49 | ng/ul  | 94       |
| 66) Hexachlorobenzene          | 16.90 | 284  | 250323   | 21.25 | ng/ul  | 98       |
| 67) Atrazine                   | 17.04 | 200  | 215334   | 19.01 | ng/ul  | 95       |
| 68) Pentachlorophenol          | 17.25 | 266  | 140781   | 19.90 | ng/ul  | 94       |
| 69) Phenanthrene               | 17.65 | 178  | 899706   | 20.35 | ng/ul  | 99       |
| 71) Anthracene                 | 17.74 | 178  | 905917   | 19.93 | ng/ul  | 99       |
| 72) Carbazole                  | 18.01 | 167  | 790852   | 20.86 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.52 | 149  | 944904   | 19.74 | ng/ul  | 100      |
| 74) Fluoranthene               | 19.64 | 202  | 1060405  | 20.19 | ng/ul  | 99       |
| 77) Pyrene                     | 20.00 | 202  | 1063578  | 20.41 | ng/ul# | 96       |
| 78) Butylbenzylphthalate       | 20.86 | 149  | 435416   | 21.34 | ng/ul  | 97       |
| 79) 3,3'-Dichlorobenzidine     | 21.78 | 252  | 429984   | 22.75 | ng/ul  | 95       |
| 80) Benzo(a)anthracene         | 21.88 | 228  | 1165799  | 20.70 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.72 | 149  | 584233   | 20.80 | ng/ul  | 99       |
| 82) Chrysene                   | 21.94 | 228  | 1079140  | 20.48 | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 22.99 | 149  | 1024889  | 23.34 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 24.22 | 252  | 1108768  | 20.68 | ng/ul  | 98       |
| 86) Benzo(k)fluoranthene       | 24.29 | 252  | 1081823  | 21.22 | ng/ul  | 96       |
| 88) Benzo(a)pyrene             | 25.16 | 252  | 1074204  | 20.83 | ng/ul# | 99       |
| 89) Indeno(1,2,3-cd)pyrene     | 29.25 | 276  | 906928   | 14.15 | ng/ul  | 98       |
| 90) Dibenzo(a,h)anthracene     | 29.31 | 278  | 865562   | 16.03 | ng/ul# | 93       |
| 91) Benzo(g,h,i)perylene       | 30.49 | 276  | 667239   | 12.48 | ng/ul  | 99       |

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

