

Data Path : Z:\HPCHEM1\BNA G\DATA\BG030717\  
 Data File : BG026105.D  
 Acq On : 8 Mar 2017 9:33  
 Operator : SJ/MA  
 Sample : SSTDC0020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 SSTD02011

Manual Integrations  
 APPROVED

mohammad  
 3/8/2017 1:48:01 PM

Quant Time: Mar 08 11:39:06 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG030717MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Mar 07 16:02:09 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.06  | 152  | 126565   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.86 | 136  | 546007   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.67 | 164  | 320968   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.40 | 188  | 766135   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.64 | 240  | 965062   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 24.83 | 264  | 932198   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.49  | 96  | 22525  | 7.65  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.22  | 99  | 156908 | 16.67 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.39  | 67  | 116677 | 19.64 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.60  | 132 | 135288 | 17.80 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.76  | 113 | 122188 | 16.62 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.22  | 128 | 80424  | 20.39 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.94  | 143 | 55947  | 17.23 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.48 | 165 | 138405 | 19.11 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.99 | 131 | 209050 | 21.14 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.07 | 166 | 414839 | 19.87 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.36 | 160 | 626012 | 22.34 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.84 | 143 | 71329  | 17.35 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.65 | 176 | 459756 | 22.33 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.76 | 200 | 56438  | 15.70 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.49 | 188 | 709334 | 20.40 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.77 | 212 | 831815 | 20.95 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 24.61 | 264 | 842953 | 20.51 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       | Ovalue |    |
|--------------------------------|-------|-----|--------|-------|--------|----|
| 2) 1,4-Dioxane                 | 3.53  | 88  | 24311  | 7.42  | ng/uL# | 84 |
| 4) Benzaldehyde                | 7.20  | 77  | 128630 | 21.44 | ng/ul  | 91 |
| 6) Phenol                      | 7.24  | 94  | 169085 | 17.35 | ng/ul  | 93 |
| 8) Bis(2-Chloroethyl)ether     | 7.47  | 93  | 157544 | 19.92 | ng/ul  | 92 |
| 10) 2-Chlorophenol             | 7.63  | 128 | 131528 | 17.69 | ng/ul# | 90 |
| 11) 2-Methylphenol             | 8.50  | 108 | 125944 | 16.96 | ng/ul  | 99 |
| 12) 2,2'-oxybis(1-Chloropropan | 8.60  | 45  | 173410 | 18.81 | ng/ul  | 93 |
| 14) Acetophenone               | 8.88  | 105 | 240442 | 19.94 | ng/ul  | 99 |
| 15) N-Nitroso-di-n-propylamine | 8.86  | 70  | 111385 | 19.59 | ng/ul  | 96 |
| 16) 4-Methylphenol             | 8.82  | 108 | 139953 | 17.38 | ng/ul  | 99 |
| 17) Hexachloroethane           | 9.15  | 117 | 58250  | 18.89 | ng/ul# | 82 |
| 20) Nitrobenzene               | 9.26  | 77  | 161768 | 19.36 | ng/ul  | 94 |
| 21) Isophorone                 | 9.78  | 82  | 286716 | 18.17 | ng/ul  | 95 |
| 23) 2-Nitrophenol              | 9.97  | 139 | 62465  | 18.14 | ng/ul# | 90 |
| 24) 2,4-Dimethylphenol         | 10.02 | 107 | 137520 | 17.75 | ng/ul  | 93 |
| 25) Bis(2-Chloroethoxy)methane | 10.26 | 93  | 204338 | 19.86 | ng/ul  | 99 |
| 27) 2,4-Dichlorophenol         | 10.51 | 162 | 134053 | 18.90 | ng/ul  | 98 |
| 28) Naphthalene                | 10.91 | 128 | 538020 | 20.22 | ng/ul  | 99 |
| 30) 4-Chloroaniline            | 11.01 | 127 | 198575 | 21.00 | ng/ul  | 98 |
| 31) Hexachlorobutadiene        | 11.20 | 225 | 102520 | 19.98 | ng/ul  | 99 |
| 32) Caprolactam                | 11.76 | 113 | 37879m | 14.85 | ng/ul  |    |
| 33) 4-Chloro-3-methylphenol    | 12.12 | 107 | 133626 | 19.28 | ng/ul  | 89 |
| 34) 2-Methylnaphthalene        | 12.51 | 142 | 414385 | 20.84 | ng/ul  | 99 |

Data Path : Z:\HPCHEM1\BNA G\DATA\BG030717\  
 Data File : BG026105.D  
 Acq On : 8 Mar 2017 9:33  
 Operator : SJ/MA  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 SSTD02011

Manual Integrations  
 APPROVED

mohammad  
 3/8/2017 1:48:01 PM

Quant Time: Mar 08 11:39:06 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG030717MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Mar 07 16:02:09 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.87 | 216  | 203075   | 22.38 | ng/ul  | 96       |
| 37) Hexachlorocyclopentadiene  | 12.86 | 237  | 96196    | 20.15 | ng/ul  | 98       |
| 38) 2,4,6-Trichlorophenol      | 13.10 | 196  | 93634    | 19.85 | ng/ul  | 99       |
| 39) 2,4,5-Trichlorophenol      | 13.18 | 196  | 101170   | 19.96 | ng/ul  | 94       |
| 40) 1,1'-Biphenyl              | 13.51 | 154  | 532053   | 22.55 | ng/ul  | 97       |
| 41) 2-Chloronaphthalene        | 13.55 | 162  | 387568   | 22.03 | ng/ul  | 93       |
| 42) 2-Nitroaniline             | 13.74 | 65   | 83905    | 20.94 | ng/ul  | 95       |
| 44) Dimethylphthalate          | 14.11 | 163  | 417811   | 20.42 | ng/ul  | 98       |
| 45) 2,6-Dinitrotoluene         | 14.23 | 165  | 98364    | 23.54 | ng/ul  | 94       |
| 47) Acenaphthylene             | 14.39 | 152  | 633508   | 22.42 | ng/ul  | 97       |
| 48) 3-Nitroaniline             | 14.56 | 138  | 104607   | 22.57 | ng/ul# | 88       |
| 49) Acenaphthene               | 14.73 | 153  | 445931   | 22.51 | ng/ul  | 99       |
| 50) 2,4-Dinitrophenol          | 14.77 | 184  | 30391    | 15.62 | ng/ul  | 92       |
| 52) 4-Nitrophenol              | 14.85 | 109  | 42260    | 17.80 | ng/ul# | 59       |
| 53) Dibenzofuran               | 15.06 | 168  | 624841   | 22.53 | ng/ul  | 89       |
| 54) 2,4-Dinitrotoluene         | 15.02 | 165  | 142026   | 22.71 | ng/ul  | 90       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.28 | 232  | 86742    | 19.15 | ng/ul  | 94       |
| 56) Diethylphthalate           | 15.47 | 149  | 395079   | 19.69 | ng/ul  | 95       |
| 58) Fluorene                   | 15.71 | 166  | 513232   | 22.29 | ng/ul  | 98       |
| 59) 4-Chlorophenyl-phenylether | 15.70 | 204  | 248065   | 22.56 | ng/ul# | 83       |
| 60) 4-Nitroaniline             | 15.71 | 138  | 117864   | 21.81 | ng/ul# | 77       |
| 63) 4,6-Dinitro-2-methylphenol | 15.78 | 198  | 60425    | 15.55 | ng/ul# | 84       |
| 64) N-Nitrosodiphenylamine     | 15.90 | 169  | 426746   | 20.27 | ng/ul  | 98       |
| 65) 4-Bromophenyl-phenylether  | 16.59 | 248  | 163378   | 20.64 | ng/ul# | 87       |
| 66) Hexachlorobenzene          | 16.71 | 284  | 182914   | 21.07 | ng/ul# | 89       |
| 67) Atrazine                   | 16.84 | 200  | 134280   | 17.66 | ng/ul  | 98       |
| 68) Pentachlorophenol          | 17.05 | 266  | 68769    | 15.54 | ng/ul  | 98       |
| 69) Phenanthrene               | 17.44 | 178  | 824452   | 20.30 | ng/ul  | 98       |
| 71) Anthracene                 | 17.53 | 178  | 842597   | 20.59 | ng/ul  | 97       |
| 72) 1,2,3,4-Tetrachlorobenzene | 13.47 | 216  | 189956   | 20.72 | ng/uL  | 99       |
| 73) Pentachlorobenzene         | 14.99 | 250  | 198418   | 21.11 | ng/uL  | 99       |
| 74) Carbazole                  | 17.79 | 167  | 777604   | 21.16 | ng/ul  | 97       |
| 75) Di-n-butylphthalate        | 18.35 | 149  | 629111   | 16.92 | ng/ul  | 98       |
| 76) Fluoranthene               | 19.44 | 202  | 1013324  | 22.13 | ng/ul  | 99       |
| 79) Pvrene                     | 19.80 | 202  | 1042200  | 21.18 | ng/ul  | 99       |
| 80) Butylbenzylphthalate       | 20.68 | 149  | 248073   | 15.40 | ng/ul  | 96       |
| 81) 3,3'-Dichlorobenzidine     | 21.53 | 252  | 288976   | 17.35 | ng/ul  | 99       |
| 82) Benzo(a)anthracene         | 21.62 | 228  | 1066312  | 20.19 | ng/ul  | 97       |
| 83) Bis(2-ethylhexyl)phthalate | 21.53 | 149  | 378650   | 15.06 | ng/ul# | 96       |
| 84) Chrysene                   | 21.69 | 228  | 1015888  | 20.11 | ng/ul  | 97       |
| 86) Di-n-octyl phthalate       | 22.72 | 149  | 651111   | 15.60 | ng/ul  | 98       |
| 87) Benzo(b)fluoranthene       | 23.81 | 252  | 1066235  | 20.63 | ng/ul  | 100      |
| 88) Benzo(k)fluoranthene       | 23.88 | 252  | 1059041  | 21.03 | ng/ul  | 97       |
| 90) Benzo(a)pyrene             | 24.68 | 252  | 1034669  | 20.37 | ng/ul  | 99       |
| 91) Indeno(1,2,3-cd)pyrene     | 28.45 | 276  | 1242942  | 20.30 | ng/ul# | 92       |
| 92) Dibenzo(a,h)anthracene     | 28.51 | 278  | 1018323  | 20.16 | ng/ul  | 99       |
| 93) Benzo(g,h,i)perylene       | 29.58 | 276  | 1027054  | 20.19 | ng/ul  | 97       |

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

