

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG121916\  
 Data File : BG025318.D  
 Acq On : 19 Dec 2016 14:56  
 Operator : UM/SJ  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 SSTD02023

Manual Integrations  
 APPROVED

sohil  
 12/20/2016 6:29:45 PM

Quant Time: Dec 20 02:23:09 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG113016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Dec 20 01:37:17 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.22  | 152  | 88937    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.05 | 136  | 386999   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.85 | 164  | 313394   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.59 | 188  | 740560   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.89 | 240  | 957733   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.31 | 264  | 994823   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.57  | 96  | 14026  | 8.15  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.38  | 99  | 162784 | 21.22 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.54  | 67  | 101496 | 21.38 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.75  | 132 | 113438 | 21.14 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.94  | 113 | 135350 | 21.11 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.41  | 128 | 58844  | 21.47 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.13 | 143 | 69752  | 20.42 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.67 | 165 | 144064 | 21.93 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.19 | 131 | 158799 | 24.59 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.24 | 166 | 464017 | 21.53 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.55 | 160 | 520251 | 22.03 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.07 | 143 | 67418  | 18.20 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.83 | 176 | 438348 | 21.60 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.97 | 200 | 83348  | 18.20 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.69 | 188 | 645794 | 20.66 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.96 | 212 | 818113 | 20.74 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.07 | 264 | 888641 | 22.05 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       |       | Qvalue |
|--------------------------------|-------|-----|--------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.61  | 88  | 14932  | 6.66  | ng/uL | 90     |
| 4) Benzaldehyde                | 7.36  | 77  | 125962 | 21.81 | ng/ul | 89     |
| 6) Phenol                      | 7.41  | 94  | 168862 | 21.44 | ng/ul | 92     |
| 8) Bis(2-Chloroethyl)ether     | 7.63  | 93  | 120928 | 20.98 | ng/ul | 95     |
| 10) 2-Chlorophenol             | 7.78  | 128 | 113648 | 21.07 | ng/ul | 97     |
| 11) 2-Methylphenol             | 8.67  | 108 | 124259 | 21.43 | ng/ul | 99     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.75  | 45  | 215763 | 22.02 | ng/ul | 99     |
| 14) Acetophenone               | 9.05  | 105 | 208828 | 21.40 | ng/ul | 96     |
| 15) N-Nitroso-di-n-propylamine | 9.02  | 70  | 126350 | 22.42 | ng/ul | 86     |
| 16) 4-Methylphenol             | 9.00  | 108 | 132205 | 20.49 | ng/ul | 92     |
| 17) Hexachloroethane           | 9.31  | 117 | 53004  | 22.18 | ng/ul | 92     |
| 20) Nitrobenzene               | 9.45  | 77  | 189256 | 22.47 | ng/ul | 98     |
| 21) Isophorone                 | 9.96  | 82  | 346335 | 21.73 | ng/ul | 98     |
| 23) 2-Nitrophenol              | 10.16 | 139 | 72580  | 20.94 | ng/ul | 94     |
| 24) 2,4-Dimethylphenol         | 10.21 | 107 | 174321 | 22.00 | ng/ul | 97     |
| 25) Bis(2-Chloroethoxy)methane | 10.43 | 93  | 176496 | 21.73 | ng/ul | 94     |
| 27) 2,4-Dichlorophenol         | 10.70 | 162 | 138450 | 21.70 | ng/ul | 94     |
| 28) Naphthalene                | 11.10 | 128 | 369632 | 20.55 | ng/ul | 96     |
| 30) 4-Chloroaniline            | 11.22 | 127 | 157685 | 23.89 | ng/ul | 96     |
| 31) Hexachlorobutadiene        | 11.36 | 225 | 120902 | 22.04 | ng/ul | 90     |
| 32) Caprolactam                | 11.99 | 113 | 55858m | 21.09 | ng/ul |        |
| 33) 4-Chloro-3-methylphenol    | 12.33 | 107 | 164602 | 20.93 | ng/ul | 96     |
| 34) 2-Methylnaphthalene        | 12.69 | 142 | 293948 | 20.71 | ng/ul | 94     |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 13.05 | 216  | 220586   | 23.35 | ng/ul  | 95       |
| 37) Hexachlorocyclopentadiene  | 13.01 | 237  | 93074    | 16.79 | ng/ul  | 98       |
| 38) 2,4,6-Trichlorophenol      | 13.30 | 196  | 130492   | 21.99 | ng/ul# | 77       |
| 39) 2,4,5-Trichlorophenol      | 13.38 | 196  | 140790   | 21.65 | ng/ul  | 96       |
| 40) 1,1'-Biphenyl              | 13.68 | 154  | 421338   | 22.18 | ng/ul  | 98       |
| 41) 2-Chloronaphthalene        | 13.74 | 162  | 330522   | 21.85 | ng/ul  | 96       |
| 42) 2-Nitroaniline             | 13.95 | 65   | 135681   | 22.92 | ng/ul  | 99       |
| 44) Dimethylphthalate          | 14.29 | 163  | 453396   | 21.40 | ng/ul  | 97       |
| 45) 2,6-Dinitrotoluene         | 14.43 | 165  | 93354    | 20.51 | ng/ul# | 81       |
| 47) Acenaphthylene             | 14.58 | 152  | 495826   | 21.60 | ng/ul  | 98       |
| 48) 3-Nitroaniline             | 14.77 | 138  | 87674    | 22.24 | ng/ul# | 75       |
| 49) Acenaphthene               | 14.91 | 153  | 350883   | 22.31 | ng/ul  | 98       |
| 50) 2,4-Dinitrophenol          | 14.99 | 184  | 42150    | 14.25 | ng/ul# | 87       |
| 52) 4-Nitrophenol              | 15.09 | 109  | 84204    | 18.90 | ng/ul  | 96       |
| 53) Dibenzofuran               | 15.25 | 168  | 545544   | 21.93 | ng/ul  | 95       |
| 54) 2,4-Dinitrotoluene         | 15.22 | 165  | 143010   | 20.85 | ng/ul  | 96       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.47 | 232  | 147940   | 21.53 | ng/ul  | 93       |
| 56) Diethylphthalate           | 15.63 | 149  | 474835   | 21.17 | ng/ul  | 97       |
| 58) Fluorene                   | 15.89 | 166  | 433379   | 21.40 | ng/ul  | 99       |
| 59) 4-Chlorophenyl-phenylether | 15.87 | 204  | 245207   | 21.50 | ng/ul  | 89       |
| 60) 4-Nitroaniline             | 15.93 | 138  | 88529    | 18.62 | ng/ul  | 96       |
| 63) 4,6-Dinitro-2-methylphenol | 15.99 | 198  | 90160    | 19.01 | ng/ul# | 94       |
| 64) N-Nitrosodiphenylamine     | 16.09 | 169  | 392647   | 20.61 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.77 | 248  | 183833   | 21.98 | ng/ul  | 97       |
| 66) Hexachlorobenzene          | 16.89 | 284  | 205412   | 21.81 | ng/ul  | 96       |
| 67) Atrazine                   | 17.03 | 200  | 190751   | 21.06 | ng/ul  | 97       |
| 68) Pentachlorophenol          | 17.24 | 266  | 104909   | 18.55 | ng/ul  | 96       |
| 69) Phenanthrene               | 17.64 | 178  | 743298   | 21.03 | ng/ul  | 99       |
| 71) Anthracene                 | 17.73 | 178  | 765545   | 21.07 | ng/ul  | 99       |
| 72) Carbazole                  | 18.00 | 167  | 671067   | 22.13 | ng/ul  | 98       |
| 73) Di-n-butylphthalate        | 18.51 | 149  | 833427   | 21.77 | ng/ul  | 99       |
| 74) Fluoranthene               | 19.63 | 202  | 967376   | 23.03 | ng/ul# | 96       |
| 77) Pyrene                     | 19.99 | 202  | 966619   | 21.00 | ng/ul  | 98       |
| 78) Butylbenzylphthalate       | 20.85 | 149  | 391848   | 21.74 | ng/ul  | 97       |
| 79) 3,3'-Dichlorobenzidine     | 21.77 | 252  | 348627   | 20.88 | ng/ul# | 91       |
| 80) Benzo(a)anthracene         | 21.87 | 228  | 1055715  | 21.22 | ng/ul  | 98       |
| 81) Bis(2-ethylhexyl)phthalate | 21.70 | 149  | 550343   | 22.18 | ng/ul  | 99       |
| 82) Chrysene                   | 21.93 | 228  | 985859   | 21.18 | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 22.97 | 149  | 938563   | 23.24 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 24.21 | 252  | 1055161  | 21.39 | ng/ul  | 100      |
| 86) Benzo(k)fluoranthene       | 24.28 | 252  | 1010048  | 21.54 | ng/ul  | 97       |
| 88) Benzo(a)pyrene             | 25.14 | 252  | 1008500  | 21.26 | ng/ul  | 96       |
| 89) Indeno(1,2,3-cd)pyrene     | 29.25 | 276  | 1277222m | 21.67 | ng/ul  |          |
| 90) Dibenzo(a,h)anthracene     | 29.29 | 278  | 1066323m | 21.47 | ng/ul  |          |
| 91) Benzo(g,h,i)perylene       | 30.49 | 276  | 1047330m | 21.29 | ng/ul  |          |

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

