

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG080217\  
 Data File : BG028105.D  
 Acq On : 2 Aug 2017 12:41  
 Operator : SJ/JU  
 Sample : SSTD04089  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD04089

Manual Integrations  
 APPROVED

Sohil  
 8/3/2017 8:29:11 PM

Quant Time: Aug 02 14:04:11 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080217.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Aug 02 13:32:47 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.37  | 152  | 29481    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.18 | 136  | 146681   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.97 | 164  | 107603   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.72 | 188  | 284122m  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 22.06 | 240  | 297541   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.57 | 264  | 271318   | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.85  | 96  | 9746   | 18.22 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.51  | 99  | 134423 | 55.48 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.68  | 67  | 85021  | 60.87 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.90  | 132 | 88532  | 46.51 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 9.06  | 113 | 112717 | 56.21 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.53  | 128 | 47368  | 43.89 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.26 | 143 | 55287  | 42.58 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.80 | 165 | 109580 | 43.13 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.32 | 131 | 133472 | 58.11 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.36 | 166 | 396501 | 42.50 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.67 | 160 | 456779 | 43.08 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.16 | 143 | 64294  | 47.60 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.96 | 176 | 354427 | 40.30 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 16.08 | 200 | 75646m | 38.33 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.82 | 188 | 559507 | 40.84 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 20.10 | 212 | 632669 | 47.33 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.33 | 264 | 549298 | 43.35 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |        | Qvalue |    |
|--------------------------------|-------|-----|--------|--------|--------|----|
| 2) 1,4-Dioxane                 | 3.88  | 88  | 10886  | 16.781 | ng/uL# | 65 |
| 4) Benzaldehyde                | 7.51  | 77  | 86799  | 57.771 | ng/ul  | 94 |
| 6) Phenol                      | 7.54  | 94  | 136082 | 57.882 | ng/ul  | 93 |
| 8) Bis(2-Chloroethyl)ether     | 7.77  | 93  | 90778  | 53.573 | ng/ul  | 88 |
| 10) 2-Chlorophenol             | 7.93  | 128 | 85057  | 48.069 | ng/ul  | 94 |
| 11) 2-Methylphenol             | 8.79  | 108 | 92764  | 53.733 | ng/ul  | 93 |
| 12) 2,2'-oxybis(1-Chloropropan | 8.89  | 45  | 222803 | 69.724 | ng/ul# | 92 |
| 14) Acetophenone               | 9.19  | 105 | 157696 | 55.778 | ng/ul  | 96 |
| 15) N-Nitroso-di-n-propylamine | 9.16  | 70  | 95829  | 66.109 | ng/ul# | 96 |
| 16) 4-Methylphenol             | 9.12  | 108 | 107558 | 56.852 | ng/ul  | 96 |
| 17) Hexachloroethane           | 9.46  | 117 | 34433  | 48.321 | ng/ul  | 93 |
| 20) Nitrobenzene               | 9.57  | 77  | 138072 | 55.337 | ng/ul  | 96 |
| 21) Isophorone                 | 10.10 | 82  | 268019 | 58.975 | ng/ul# | 96 |
| 23) 2-Nitrophenol              | 10.29 | 139 | 54773  | 43.828 | ng/ul# | 86 |
| 24) 2,4-Dimethylphenol         | 10.33 | 107 | 131009 | 50.099 | ng/ul  | 95 |
| 25) Bis(2-Chloroethoxy)methane | 10.57 | 93  | 141581 | 51.929 | ng/ul  | 97 |
| 27) 2,4-Dichlorophenol         | 10.83 | 162 | 97522  | 39.647 | ng/ul  | 95 |
| 28) Naphthalene                | 11.24 | 128 | 297114 | 42.744 | ng/ul  | 97 |
| 30) 4-Chloroaniline            | 11.34 | 127 | 127237 | 59.862 | ng/ul  | 92 |
| 31) Hexachlorobutadiene        | 11.51 | 225 | 70054  | 35.608 | ng/ul  | 91 |
| 32) Caprolactam                | 12.10 | 113 | 40407m | 55.208 | ng/ul  |    |
| 33) 4-Chloro-3-methylphenol    | 12.44 | 107 | 130993 | 55.859 | ng/ul  | 98 |
| 34) 2-Methylnaphthalene        | 12.82 | 142 | 245324 | 43.647 | ng/ul  | 94 |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 13.18 | 216  | 142727   | 35.266 | ng/ul  | 98       |
| 37) Hexachlorocyclopentadiene  | 13.15 | 237  | 77584    | 32.399 | ng/ul  | 97       |
| 38) 2,4,6-Trichlorophenol      | 13.41 | 196  | 94817    | 38.836 | ng/ul  | 92       |
| 39) 2,4,5-Trichlorophenol      | 13.49 | 196  | 105412   | 40.179 | ng/ul  | 98       |
| 40) 1,1'-Biphenyl              | 13.81 | 154  | 328878   | 39.995 | ng/ul  | 97       |
| 41) 2-Chloronaphthalene        | 13.86 | 162  | 252020   | 38.769 | ng/ul  | 94       |
| 42) 2-Nitroaniline             | 14.06 | 65   | 116609   | 62.768 | ng/ul  | 94       |
| 44) Dimethylphthalate          | 14.41 | 163  | 365260   | 43.000 | ng/ul  | 98       |
| 45) 2,6-Dinitrotoluene         | 14.54 | 165  | 80793    | 47.020 | ng/ul# | 95       |
| 47) Acenaphthylene             | 14.70 | 152  | 427762   | 41.066 | ng/ul  | 98       |
| 48) 3-Nitroaniline             | 14.87 | 138  | 70881    | 47.459 | ng/ul# | 93       |
| 49) Acenaphthene               | 15.03 | 153  | 291348   | 41.340 | ng/ul  | 96       |
| 50) 2,4-Dinitrophenol          | 15.08 | 184  | 43185    | 43.634 | ng/ul  | 93       |
| 52) 4-Nitrophenol              | 15.17 | 109  | 68043    | 62.516 | ng/ul# | 79       |
| 53) Dibenzofuran               | 15.37 | 168  | 415606   | 39.884 | ng/ul  | 97       |
| 54) 2,4-Dinitrotoluene         | 15.33 | 165  | 118488   | 47.307 | ng/ul# | 96       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.59 | 232  | 96251    | 38.501 | ng/ul  | 95       |
| 56) Diethylphthalate           | 15.77 | 149  | 405599   | 45.790 | ng/ul  | 99       |
| 58) Fluorene                   | 16.02 | 166  | 369373   | 41.231 | ng/ul  | 98       |
| 59) 4-Chlorophenyl-phenylether | 16.00 | 204  | 195620   | 39.380 | ng/ul  | 88       |
| 60) 4-Nitroaniline             | 16.04 | 138  | 83052    | 46.859 | ng/ul  | 84       |
| 63) 4,6-Dinitro-2-methylphenol | 16.09 | 198  | 75978m   | 40.267 | ng/ul  |          |
| 64) N-Nitrosodiphenylamine     | 16.21 | 169  | 312283   | 40.778 | ng/ul  | 96       |
| 65) 4-Bromophenyl-phenylether  | 16.90 | 248  | 128454   | 37.099 | ng/ul  | 94       |
| 66) Hexachlorobenzene          | 17.03 | 284  | 135895   | 37.331 | ng/ul  | 96       |
| 67) Atrazine                   | 17.15 | 200  | 134561   | 39.935 | ng/ul  | 98       |
| 68) Pentachlorophenol          | 17.37 | 266  | 68067m   | 34.418 | ng/ul  |          |
| 69) Phenanthrene               | 17.77 | 178  | 584827m  | 40.161 | ng/ul  |          |
| 71) Anthracene                 | 17.86 | 178  | 601617   | 40.306 | ng/ul  | 99       |
| 72) Carbazole                  | 18.12 | 167  | 520284   | 42.276 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.65 | 149  | 668022   | 49.505 | ng/ul  | 98       |
| 74) Fluoranthene               | 19.76 | 202  | 697835   | 39.149 | ng/ul  | 98       |
| 77) Pyrene                     | 20.12 | 202  | 730680   | 46.351 | ng/ul  | 97       |
| 78) Butylbenzylphthalate       | 20.99 | 149  | 289364   | 57.257 | ng/ul  | 94       |
| 79) 3,3'-Dichlorobenzidine     | 21.94 | 252  | 244884   | 50.623 | ng/ul# | 98       |
| 80) Benzo(a)anthracene         | 22.04 | 228  | 717462   | 44.576 | ng/ul  | 100      |
| 81) Bis(2-ethylhexyl)phthalate | 21.90 | 149  | 408936   | 56.785 | ng/ul  | 99       |
| 82) Chrysene                   | 22.11 | 228  | 640516   | 43.722 | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 23.21 | 149  | 693393   | 55.103 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 24.45 | 252  | 695063   | 44.893 | ng/ul# | 98       |
| 86) Benzo(k)fluoranthene       | 24.52 | 252  | 682650   | 44.950 | ng/ul# | 97       |
| 88) Benzo(a)pyrene             | 25.40 | 252  | 674940   | 45.116 | ng/ul  | 98       |
| 89) Indeno(1,2,3-cd)pyrene     | 29.60 | 276  | 790618   | 46.601 | ng/ul  | 97       |
| 90) Dibenzo(a,h)anthracene     | 29.67 | 278  | 668745   | 46.959 | ng/ul  | 96       |
| 91) Benzo(g,h,i)perylene       | 30.88 | 276  | 644281   | 46.031 | ng/ul# | 94       |

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

