

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG051117\  
 Data File : BG026955.D  
 Acq On : 11 May 2017 22:49  
 Operator : SJ/MA  
 Sample : SSTDCCC020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 SSTD02086

Manual Integrations  
 APPROVED

mohammad  
 5/12/2017 11:33:17 AM

Quant Time: May 12 05:04:32 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG042717.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 10 01:49:01 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.01  | 152  | 166228   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.81 | 136  | 784034   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.62 | 164  | 419446   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.35 | 188  | 814719   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.60 | 240  | 728524   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 24.77 | 264  | 738242   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.43  | 96  | 28790  | 7.80  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.19  | 99  | 330311 | 22.27 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.33  | 67  | 191727 | 21.98 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.54  | 132 | 262519 | 20.85 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.72  | 113 | 261905 | 21.27 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.17  | 128 | 132766 | 20.26 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.89  | 143 | 148009 | 20.76 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.44 | 165 | 234987 | 20.75 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.94 | 131 | 344413 | 22.72 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.02 | 166 | 688809 | 20.40 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.31 | 160 | 914167 | 21.56 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.84 | 143 | 108611 | 17.85 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.61 | 176 | 597952 | 20.29 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.74 | 200 | 82270  | 16.63 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.45 | 188 | 831240 | 21.02 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.73 | 212 | 778919 | 20.26 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 24.55 | 264 | 743905 | 21.31 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       |        | Qvalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 2) 1,4-Dioxane                 | 3.46  | 88  | 32248  | 7.66  | ng/uL# | 84     |
| 4) Benzaldehyde                | 7.14  | 77  | 151190 | 21.09 | ng/ul# | 71     |
| 6) Phenol                      | 7.21  | 94  | 336544 | 22.38 | ng/ul# | 77     |
| 8) Bis(2-Chloroethyl)ether     | 7.42  | 93  | 241445 | 20.80 | ng/ul  | 91     |
| 10) 2-Chlorophenol             | 7.57  | 128 | 257135 | 20.75 | ng/ul# | 83     |
| 11) 2-Methylphenol             | 8.46  | 108 | 253663 | 21.31 | ng/ul  | 95     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.54  | 45  | 285819 | 23.59 | ng/ul# | 91     |
| 14) Acetophenone               | 8.83  | 105 | 380680 | 21.05 | ng/ul# | 74     |
| 15) N-Nitroso-di-n-propylamine | 8.81  | 70  | 180481 | 20.23 | ng/ul# | 72     |
| 16) 4-Methylphenol             | 8.78  | 108 | 276367 | 21.23 | ng/ul  | 99     |
| 17) Hexachloroethane           | 9.08  | 117 | 94360  | 20.24 | ng/ul# | 67     |
| 20) Nitrobenzene               | 9.21  | 77  | 271849 | 21.50 | ng/ul# | 76     |
| 21) Isophorone                 | 9.72  | 82  | 509866 | 21.00 | ng/ul# | 91     |
| 23) 2-Nitrophenol              | 9.92  | 139 | 152776 | 20.39 | ng/ul# | 62     |
| 24) 2,4-Dimethylphenol         | 9.98  | 107 | 293659 | 21.49 | ng/ul# | 85     |
| 25) Bis(2-Chloroethoxy)methane | 10.21 | 93  | 336644 | 20.30 | ng/ul# | 95     |
| 27) 2,4-Dichlorophenol         | 10.47 | 162 | 239528 | 21.21 | ng/ul  | 96     |
| 28) Naphthalene                | 10.85 | 128 | 838388 | 20.54 | ng/ul  | 98     |
| 30) 4-Chloroaniline            | 10.96 | 127 | 323866 | 22.65 | ng/ul  | 94     |
| 31) Hexachlorobutadiene        | 11.14 | 225 | 109230 | 19.12 | ng/ul# | 88     |
| 32) Caprolactam                | 11.71 | 113 | 91951  | 21.79 | ng/ul  | 78     |
| 33) 4-Chloro-3-methylphenol    | 12.10 | 107 | 281887 | 23.02 | ng/ul  | 88     |
| 34) 2-Methylnaphthalene        | 12.46 | 142 | 617840 | 20.40 | ng/ul  | 97     |

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 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 SSTD02086

Manual Integrations  
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 5/12/2017 11:33:17 AM

Quant Time: May 12 05:04:32 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG042717.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 10 01:49:01 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.83 | 216  | 227839   | 20.60 | ng/ul  | 95       |
| 37) Hexachlorocyclopentadiene  | 12.80 | 237  | 84930    | 17.43 | ng/ul  | 96       |
| 38) 2,4,6-Trichlorophenol      | 13.07 | 196  | 162856   | 21.41 | ng/ul  | 95       |
| 39) 2,4,5-Trichlorophenol      | 13.15 | 196  | 162091   | 20.61 | ng/ul  | 98       |
| 40) 1,1'-Biphenyl              | 13.46 | 154  | 734875   | 20.84 | ng/ul  | 96       |
| 41) 2-Chloronaphthalene        | 13.50 | 162  | 556380   | 20.99 | ng/ul  | 95       |
| 42) 2-Nitroaniline             | 13.70 | 65   | 183173m  | 24.19 | ng/ul  |          |
| 44) Dimethylphthalate          | 14.07 | 163  | 666723   | 20.17 | ng/ul  | 98       |
| 45) 2,6-Dinitrotoluene         | 14.19 | 165  | 145905   | 20.92 | ng/ul  | 87       |
| 47) Acenaphthylene             | 14.34 | 152  | 922375   | 21.35 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.52 | 138  | 164308   | 22.39 | ng/ul# | 82       |
| 49) Acenaphthene               | 14.68 | 153  | 621367   | 20.68 | ng/ul  | 96       |
| 50) 2,4-Dinitrophenol          | 14.74 | 184  | 76071    | 21.33 | ng/ul  | 83       |
| 52) 4-Nitrophenol              | 14.85 | 109  | 63197    | 17.71 | ng/ul# | 32       |
| 53) Dibenzofuran               | 15.01 | 168  | 823131   | 20.58 | ng/ul  | 98       |
| 54) 2,4-Dinitrotoluene         | 14.98 | 165  | 207887   | 20.83 | ng/ul# | 77       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.25 | 232  | 116825   | 18.91 | ng/ul# | 71       |
| 56) Diethylphthalate           | 15.42 | 149  | 718745   | 20.78 | ng/ul  | 98       |
| 58) Fluorene                   | 15.66 | 166  | 669247   | 20.50 | ng/ul  | 97       |
| 59) 4-Chlorophenyl-phenylether | 15.65 | 204  | 287048   | 20.17 | ng/ul  | 95       |
| 60) 4-Nitroaniline             | 15.68 | 138  | 166779   | 20.61 | ng/ul# | 54       |
| 63) 4,6-Dinitro-2-methylphenol | 15.75 | 198  | 85865    | 16.67 | ng/ul  | 94       |
| 64) N-Nitrosodiphenylamine     | 15.86 | 169  | 570434   | 21.30 | ng/ul  | 96       |
| 65) 4-Bromophenyl-phenylether  | 16.54 | 248  | 168006   | 20.67 | ng/ul# | 81       |
| 66) Hexachlorobenzene          | 16.67 | 284  | 175650   | 20.06 | ng/ul# | 86       |
| 67) Atrazine                   | 16.80 | 200  | 180590   | 21.58 | ng/ul# | 92       |
| 68) Pentachlorophenol          | 17.02 | 266  | 69063    | 17.27 | ng/ul  | 91       |
| 69) Phenanthrene               | 17.40 | 178  | 946041   | 20.61 | ng/ul  | 99       |
| 71) Anthracene                 | 17.49 | 178  | 984268   | 20.90 | ng/ul  | 99       |
| 72) Carbazole                  | 17.76 | 167  | 904028   | 22.71 | ng/ul  | 98       |
| 73) Di-n-butylphthalate        | 18.30 | 149  | 1161062  | 22.42 | ng/ul# | 96       |
| 74) Fluoranthene               | 19.40 | 202  | 980581   | 23.01 | ng/ul# | 80       |
| 77) Pyrene                     | 19.76 | 202  | 1001260  | 20.49 | ng/ul# | 74       |
| 78) Butylbenzylphthalate       | 20.64 | 149  | 537134m  | 23.66 | ng/ul  |          |
| 79) 3,3'-Dichlorobenzidine     | 21.49 | 252  | 323290   | 23.08 | ng/ul# | 94       |
| 80) Benzo(a)anthracene         | 21.58 | 228  | 889175   | 20.87 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.48 | 149  | 758511   | 23.41 | ng/ul# | 99       |
| 82) Chrysene                   | 21.65 | 228  | 811286   | 20.50 | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 22.66 | 149  | 1315576  | 25.93 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 23.76 | 252  | 869488   | 20.61 | ng/ul# | 93       |
| 86) Benzo(k)fluoranthene       | 23.83 | 252  | 908971   | 21.93 | ng/ul# | 93       |
| 88) Benzo(a)pyrene             | 24.62 | 252  | 875196   | 21.08 | ng/ul# | 91       |
| 89) Indeno(1,2,3-cd)pyrene     | 28.37 | 276  | 888552   | 18.05 | ng/ul# | 78       |
| 90) Dibenzo(a,h)anthracene     | 28.43 | 278  | 776278   | 18.60 | ng/ul# | 87       |
| 91) Benzo(g,h,i)perylene       | 29.50 | 276  | 644568   | 15.79 | ng/ul# | 76       |

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

