

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG111615\  
 Data File : BG019645.D  
 Acq On : 16 Nov 2015 21:51  
 Operator : UM/NP  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD02027

Manual Integrations  
 APPROVED

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 11/17/2015 5:53:26 PM

Quant Time: Nov 17 01:14:28 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG111615.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Nov 17 01:02:20 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.15  | 152  | 15951    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.98 | 136  | 72029    | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.78 | 164  | 63055    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.52 | 188  | 187355m  | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.79 | 240  | 269650   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 25.11 | 264  | 263191   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.44  | 96  | 2857   | 7.65  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.29  | 99  | 32216  | 19.72 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.46  | 67  | 20915  | 19.53 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.68  | 132 | 20249  | 19.32 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.86  | 113 | 26505  | 19.59 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.33  | 128 | 11282  | 19.08 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.05 | 143 | 12097  | 18.17 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.60 | 165 | 26254  | 18.24 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.11 | 131 | 29591  | 21.66 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.18 | 166 | 110520 | 19.38 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.48 | 160 | 116031 | 18.77 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.97 | 143 | 18244  | 20.30 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.77 | 176 | 97690  | 19.14 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.88 | 200 | 23499  | 19.42 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.62 | 188 | 176595 | 19.41 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.90 | 212 | 225649 | 18.37 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.88 | 264 | 261801 | 19.05 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |              | Qvalue |
|--------------------------------|-------|-----|--------|--------------|--------|
| 2) 1,4-Dioxane                 | 3.49  | 88  | 3342   | 7.85 ng/uL#  | 87     |
| 4) Benzaldehyde                | 7.28  | 77  | 26425  | 22.19 ng/ul  | 93     |
| 6) Phenol                      | 7.32  | 94  | 34113  | 19.33 ng/ul  | 96     |
| 8) Bis(2-Chloroethyl)ether     | 7.56  | 93  | 24297  | 19.79 ng/ul# | 94     |
| 10) 2-Chlorophenol             | 7.71  | 128 | 19902  | 19.44 ng/ul  | 91     |
| 11) 2-Methylphenol             | 8.59  | 108 | 25451  | 19.59 ng/ul  | 85     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.68  | 45  | 22613  | 21.09 ng/ul# | 91     |
| 14) Acetophenone               | 8.97  | 105 | 45370  | 20.30 ng/ul  | 90     |
| 15) N-Nitroso-di-n-propylamine | 8.96  | 70  | 29703  | 19.67 ng/ul# | 97     |
| 16) 4-Methylphenol             | 8.92  | 108 | 27659  | 18.90 ng/ul  | 92     |
| 17) Hexachloroethane           | 9.24  | 117 | 9416   | 19.35 ng/ul  | 85     |
| 20) Nitrobenzene               | 9.37  | 77  | 38675  | 18.16 ng/ul  | 95     |
| 21) Isophorone                 | 9.88  | 82  | 79442  | 19.34 ng/ul  | 99     |
| 23) 2-Nitrophenol              | 10.08 | 139 | 13498  | 18.74 ng/ul  | 97     |
| 24) 2,4-Dimethylphenol         | 10.13 | 107 | 36534  | 19.03 ng/ul  | 94     |
| 25) Bis(2-Chloroethoxy)methane | 10.37 | 93  | 38356  | 18.86 ng/ul  | 95     |
| 27) 2,4-Dichlorophenol         | 10.62 | 162 | 26116  | 19.06 ng/ul  | 93     |
| 28) Naphthalene                | 11.03 | 128 | 73606  | 18.92 ng/ul  | 99     |
| 30) 4-Chloroaniline            | 11.13 | 127 | 30063  | 21.16 ng/ul  | 91     |
| 31) Hexachlorobutadiene        | 11.31 | 225 | 22904  | 18.57 ng/ul  | 91     |
| 32) Caprolactam                | 11.88 | 113 | 11111m | 19.93 ng/ul  |        |
| 33) 4-Chloro-3-methylphenol    | 12.25 | 107 | 36900  | 19.31 ng/ul  | 94     |
| 34) 2-Methylnaphthalene        | 12.62 | 142 | 59497  | 19.18 ng/ul  | 97     |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 35) 1-Methylnaphthalene        | 12.84 | 142  | 58758    | 19.01 | ng/ul  | 97       |
| 37) 1,2,4,5-Tetrachlorobenzene | 12.99 | 216  | 46492    | 18.39 | ng/ul  | 97       |
| 38) Hexachlorocyclopentadiene  | 12.97 | 237  | 24547    | 16.67 | ng/ul  | 91       |
| 39) 2,4,6-Trichlorophenol      | 13.22 | 196  | 28633    | 18.57 | ng/ul  | 92       |
| 40) 2,4,5-Trichlorophenol      | 13.30 | 196  | 31065    | 19.26 | ng/ul  | 97       |
| 41) 1,1'-Biphenyl              | 13.62 | 154  | 88634    | 18.90 | ng/ul  | 96       |
| 42) 2-Chloronaphthalene        | 13.67 | 162  | 68335    | 18.75 | ng/ul  | 99       |
| 43) 2-Nitroaniline             | 13.87 | 65   | 29835    | 19.37 | ng/ul  | 94       |
| 45) Dimethylphthalate          | 14.23 | 163  | 109633   | 19.39 | ng/ul  | 98       |
| 46) 2,6-Dinitrotoluene         | 14.35 | 165  | 21661    | 19.15 | ng/ul  | 94       |
| 48) Acenaphthylene             | 14.51 | 152  | 118655   | 19.23 | ng/ul  | 98       |
| 49) 3-Nitroaniline             | 14.68 | 138  | 20627    | 21.88 | ng/ul  | 85       |
| 50) Acenaphthene               | 14.85 | 153  | 79588    | 18.84 | ng/ul  | 97       |
| 51) 2,4-Dinitrophenol          | 14.89 | 184  | 13236    | 17.81 | ng/ul  | 93       |
| 53) 4-Nitrophenol              | 14.98 | 109  | 22208    | 20.28 | ng/ul  | 88       |
| 54) Dibenzofuran               | 15.18 | 168  | 121324   | 19.59 | ng/ul  | 97       |
| 55) 2,4-Dinitrotoluene         | 15.14 | 165  | 35514    | 20.19 | ng/ul  | 90       |
| 56) 2,3,4,6-Tetrachlorophenol  | 15.40 | 232  | 33584    | 19.63 | ng/ul  | 98       |
| 57) Diethylphthalate           | 15.58 | 149  | 109108   | 19.31 | ng/ul  | 100      |
| 59) Fluorene                   | 15.83 | 166  | 106411   | 19.66 | ng/ul  | 94       |
| 60) 4-Chlorophenyl-phenylether | 15.81 | 204  | 59575    | 18.92 | ng/ul  | 96       |
| 61) 4-Nitroaniline             | 15.84 | 138  | 24850    | 21.90 | ng/ul  | 94       |
| 64) 4,6-Dinitro-2-methylphenol | 15.89 | 198  | 24776    | 19.28 | ng/ul# | 91       |
| 65) N-Nitrosodiphenylamine     | 16.02 | 169  | 95446    | 18.91 | ng/ul  | 99       |
| 66) 4-Bromophenyl-phenylether  | 16.71 | 248  | 42307    | 18.78 | ng/ul  | 99       |
| 67) Hexachlorobenzene          | 16.83 | 284  | 44189    | 18.60 | ng/ul  | 99       |
| 68) Atrazine                   | 16.96 | 200  | 47734    | 20.27 | ng/ul  | 99       |
| 69) Pentachlorophenol          | 17.17 | 266  | 23721m   | 17.84 | ng/ul  |          |
| 70) Phenanthrene               | 17.56 | 178  | 194472m  | 19.39 | ng/ul  |          |
| 72) Anthracene                 | 17.66 | 178  | 201452   | 19.92 | ng/ul  | 99       |
| 73) 1,2,3,4-Tetrachlorobenzene | 13.59 | 216  | 46742    | 18.07 | ng/uL  | 98       |
| 74) Pentachlorobenzene         | 15.10 | 250  | 50086    | 18.56 | ng/uL  | 94       |
| 75) Carbazole                  | 17.92 | 167  | 173112   | 21.32 | ng/ul  | 98       |
| 76) Di-n-butylphthalate        | 18.46 | 149  | 211193   | 20.05 | ng/ul  | 99       |
| 77) Fluoranthene               | 19.56 | 202  | 281263   | 22.01 | ng/ul# | 97       |
| 80) Pyrene                     | 19.93 | 202  | 293330   | 18.63 | ng/ul  | 99       |
| 81) Butylbenzylphthalate       | 20.79 | 149  | 100673   | 19.43 | ng/ul  | 96       |
| 82) 3,3'-Dichlorobenzidine     | 21.68 | 252  | 106940   | 21.68 | ng/ul  | 95       |
| 83) Benzo(a)anthracene         | 21.77 | 228  | 317748   | 19.44 | ng/ul  | 97       |
| 84) Bis(2-ethylhexyl)phthalate | 21.65 | 149  | 149331   | 19.66 | ng/ul  | 99       |
| 85) Chrysene                   | 21.84 | 228  | 299300   | 19.45 | ng/ul  | 99       |
| 87) Di-n-octyl phthalate       | 22.89 | 149  | 259015   | 20.27 | ng/ul  | 100      |
| 88) Benzo(b)fluoranthene       | 24.05 | 252  | 308762   | 19.04 | ng/ul  | 99       |
| 89) Benzo(k)fluoranthene       | 24.11 | 252  | 308259   | 19.70 | ng/ul  | 98       |
| 91) Benzo(a)pyrene             | 24.95 | 252  | 302918   | 19.40 | ng/ul  | 98       |
| 92) Indeno(1,2,3-cd)pyrene     | 28.90 | 276  | 335795   | 19.22 | ng/ul  | 93       |
| 93) Dibenzo(a,h)anthracene     | 28.97 | 278  | 278801   | 19.41 | ng/ul# | 94       |
| 94) Benzo(g,h,i)perylene       | 30.09 | 276  | 281102   | 19.39 | ng/ul  | 98       |

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

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