

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121416\  
 Data File : BM008290.D  
 Acq On : 14 Dec 2016 02:23  
 Operator : UM/SJ  
 Sample : SSTD04046  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 SSTD04046

Manual Integrations  
 APPROVED

Sohil  
 12/14/2016 6:57:51 PM

Quant Time: Dec 14 05:06:56 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Dec 14 04:50:38 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.67  | 152  | 118941   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.45 | 136  | 466838   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.31 | 164  | 316229   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.07 | 188  | 654214   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.26 | 240  | 869160   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.50 | 264  | 864520   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.23  | 96  | 40066   | 15.84 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.86  | 99  | 366826  | 40.11 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.02  | 67  | 212728  | 39.95 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.21  | 132 | 284669  | 41.37 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.39  | 113 | 285662  | 39.95 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.83  | 128 | 139450  | 41.50 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.55  | 143 | 158727  | 42.37 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.08 | 165 | 290132  | 41.73 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.60 | 131 | 335898  | 42.70 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.73 | 166 | 859764  | 40.94 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.00 | 160 | 1028303 | 41.27 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.55 | 143 | 128188  | 40.87 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.31 | 176 | 740452  | 40.62 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.46 | 200 | 159534  | 41.50 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.17 | 188 | 1175189 | 41.12 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.47 | 212 | 1360376 | 40.19 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.35 | 264 | 1476635 | 40.79 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       |       | Qvalue |
|--------------------------------|-------|-----|--------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.27  | 88  | 46248  | 15.31 | ng/uL | 96     |
| 4) Benzaldehyde                | 6.83  | 77  | 268875 | 43.87 | ng/ul | 95     |
| 6) Phenol                      | 6.89  | 94  | 384061 | 40.36 | ng/ul | 96     |
| 8) Bis(2-Chloroethyl)ether     | 7.11  | 93  | 284762 | 39.74 | ng/ul | 98     |
| 10) 2-Chlorophenol             | 7.25  | 128 | 291590 | 41.80 | ng/ul | 98     |
| 11) 2-Methylphenol             | 8.12  | 108 | 281185 | 40.38 | ng/ul | 99     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.20  | 45  | 329923 | 40.45 | ng/ul | 99     |
| 14) Acetophenone               | 8.50  | 105 | 466403 | 40.20 | ng/ul | 99     |
| 15) N-Nitroso-di-n-propylamine | 8.48  | 70  | 245895 | 41.30 | ng/ul | 99     |
| 16) 4-Methylphenol             | 8.45  | 108 | 305011 | 40.58 | ng/ul | 97     |
| 17) Hexachloroethane           | 8.73  | 117 | 127628 | 39.78 | ng/ul | 94     |
| 20) Nitrobenzene               | 8.87  | 77  | 355596 | 40.61 | ng/ul | 98     |
| 21) Isophorone                 | 9.40  | 82  | 649642 | 41.42 | ng/ul | 99     |
| 23) 2-Nitrophenol              | 9.58  | 139 | 162635 | 42.36 | ng/ul | 95     |
| 24) 2,4-Dimethylphenol         | 9.64  | 107 | 356986 | 41.59 | ng/ul | 95     |
| 25) Bis(2-Chloroethoxy)methane | 9.87  | 93  | 365858 | 40.24 | ng/ul | 97     |
| 27) 2,4-Dichlorophenol         | 10.11 | 162 | 288154 | 41.40 | ng/ul | 95     |
| 28) Naphthalene                | 10.50 | 128 | 892485 | 40.28 | ng/ul | 99     |
| 30) 4-Chloroaniline            | 10.62 | 127 | 342168 | 43.07 | ng/ul | 99     |
| 31) Hexachlorobutadiene        | 10.77 | 225 | 225496 | 40.30 | ng/ul | 97     |
| 32) Caprolactam                | 11.42 | 113 | 85732m | 39.92 | ng/ul |        |
| 33) 4-Chloro-3-methylphenol    | 11.76 | 107 | 315216 | 41.94 | ng/ul | 98     |
| 34) 2-Methylnaphthalene        | 12.12 | 142 | 644878 | 40.37 | ng/ul | 100    |

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 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Dec 14 04:50:38 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.49 | 216  | 402264   | 40.57 | ng/ul  | 97       |
| 37) Hexachlorocyclopentadiene  | 12.46 | 237  | 158575   | 41.44 | ng/ul  | 99       |
| 38) 2,4,6-Trichlorophenol      | 12.75 | 196  | 236365   | 41.44 | ng/ul  | 100      |
| 39) 2,4,5-Trichlorophenol      | 12.82 | 196  | 251296   | 41.50 | ng/ul  | 99       |
| 40) 1,1'-Biphenyl              | 13.14 | 154  | 861080   | 41.05 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.18 | 162  | 655635   | 40.54 | ng/ul  | 99       |
| 42) 2-Nitroaniline             | 13.41 | 65   | 207091   | 42.67 | ng/ul  | 97       |
| 44) Dimethylphthalate          | 13.78 | 163  | 832337   | 40.57 | ng/ul  | 100      |
| 45) 2,6-Dinitrotoluene         | 13.91 | 165  | 173042   | 43.17 | ng/ul  | 97       |
| 47) Acenaphthylene             | 14.03 | 152  | 1036133  | 40.83 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.24 | 138  | 170174   | 43.29 | ng/ul  | 99       |
| 49) Acenaphthene               | 14.38 | 153  | 701681   | 40.27 | ng/ul  | 98       |
| 50) 2,4-Dinitrophenol          | 14.47 | 184  | 95657    | 41.42 | ng/ul  | 95       |
| 52) 4-Nitrophenol              | 14.57 | 109  | 127965   | 40.85 | ng/ul  | 95       |
| 53) Dibenzofuran               | 14.72 | 168  | 1026831  | 40.66 | ng/ul  | 100      |
| 54) 2,4-Dinitrotoluene         | 14.72 | 165  | 259463   | 43.22 | ng/ul  | 94       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.95 | 232  | 240900   | 41.87 | ng/ul# | 98       |
| 56) Diethylphthalate           | 15.14 | 149  | 840695   | 40.85 | ng/ul  | 100      |
| 58) Fluorene                   | 15.37 | 166  | 851540   | 41.23 | ng/ul  | 98       |
| 59) 4-Chlorophenyl-phenylether | 15.36 | 204  | 450977   | 40.75 | ng/ul  | 99       |
| 60) 4-Nitroaniline             | 15.42 | 138  | 157579   | 42.73 | ng/ul  | 96       |
| 63) 4,6-Dinitro-2-methylphenol | 15.48 | 198  | 158934   | 39.96 | ng/ul  | 96       |
| 64) N-Nitrosodiphenylamine     | 15.58 | 169  | 734796   | 41.13 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.26 | 248  | 290653   | 39.94 | ng/ul  | 98       |
| 66) Hexachlorobenzene          | 16.37 | 284  | 327261   | 40.26 | ng/ul  | 99       |
| 67) Atrazine                   | 16.54 | 200  | 293324   | 40.30 | ng/ul  | 99       |
| 68) Pentachlorophenol          | 16.73 | 266  | 175286   | 39.49 | ng/ul  | 98       |
| 69) Phenanthrene               | 17.11 | 178  | 1356847  | 40.37 | ng/ul  | 98       |
| 71) Anthracene                 | 17.20 | 178  | 1391135  | 40.90 | ng/ul  | 99       |
| 72) Carbazole                  | 17.48 | 167  | 1200188  | 40.18 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.03 | 149  | 1399225  | 40.98 | ng/ul  | 100      |
| 74) Fluoranthene               | 19.13 | 202  | 1656828  | 40.43 | ng/ul  | 99       |
| 77) Pyrene                     | 19.50 | 202  | 1720299  | 39.92 | ng/ul  | 100      |
| 78) Butylbenzylphthalate       | 20.40 | 149  | 644229   | 40.63 | ng/ul  | 99       |
| 79) 3,3'-Dichlorobenzidine     | 21.19 | 252  | 646436   | 43.07 | ng/ul  | 99       |
| 80) Benzo(a)anthracene         | 21.24 | 228  | 1794299  | 39.80 | ng/ul  | 100      |
| 81) Bis(2-ethylhexyl)phthalate | 21.17 | 149  | 943204   | 40.66 | ng/ul  | 99       |
| 82) Chrysene                   | 21.30 | 228  | 1729218  | 39.67 | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 22.04 | 149  | 1660245  | 39.55 | ng/ul  | 99       |
| 85) Benzo(b)fluoranthene       | 22.83 | 252  | 1951574  | 42.17 | ng/ul  | 100      |
| 86) Benzo(k)fluoranthene       | 22.87 | 252  | 1752258  | 39.15 | ng/ul  | 99       |
| 88) Benzo(a)pyrene             | 23.40 | 252  | 1851376  | 41.21 | ng/ul  | 99       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.73 | 276  | 2219321  | 40.58 | ng/ul  | 99       |
| 90) Dibenzo(a,h)anthracene     | 25.74 | 278  | 1862774  | 40.45 | ng/ul  | 99       |
| 91) Benzo(g,h,i)perylene       | 26.42 | 276  | 1839631  | 40.44 | ng/ul  | 99       |

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

