

Data Path : V:\HPCHEM1\BNA M\DATA\BM042016\  
 Data File : BM005008.D  
 Acq On : 21 Apr 2016 02:21  
 Operator : UM/SJ  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02063

Quant Time: Apr 21 10:21:53 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM041416.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Apr 15 22:59:24 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.81  | 152  | 57054    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.60 | 136  | 248799   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.45 | 164  | 143924   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.19 | 188  | 318626   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.37 | 240  | 352240   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.66 | 264  | 351461   | 20.00 | ng/ul | -0.01    |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.30  | 96  | 9188   | 8.62  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.97  | 99  | 84580  | 20.77 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.14  | 67  | 50067  | 21.44 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.34  | 132 | 68506  | 20.13 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.51  | 113 | 67880  | 20.17 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.96  | 128 | 32084  | 19.47 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.69  | 143 | 35947  | 19.38 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.22 | 165 | 67238  | 19.96 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.73 | 131 | 87431  | 23.04 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.85 | 166 | 195942 | 20.01 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.13 | 160 | 247341 | 20.60 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.65 | 143 | 32521  | 19.47 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.44 | 176 | 174187 | 20.60 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.56 | 200 | 29866  | 21.67 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.29 | 188 | 259276 | 20.48 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.58 | 212 | 282014 | 19.21 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.52 | 264 | 276920 | 20.46 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       |       | Ovalue |
|--------------------------------|-------|-----|--------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.34  | 88  | 16664  | 8.57  | ng/uL | 98     |
| 4) Benzaldehyde                | 6.95  | 77  | 54832  | 23.55 | ng/ul | 98     |
| 6) Phenol                      | 7.00  | 94  | 89356  | 21.20 | ng/ul | 98     |
| 8) Bis(2-Chloroethyl)ether     | 7.23  | 93  | 69977  | 21.24 | ng/ul | 99     |
| 10) 2-Chlorophenol             | 7.37  | 128 | 71325  | 20.39 | ng/ul | 99     |
| 11) 2-Methylphenol             | 8.25  | 108 | 67367  | 20.34 | ng/ul | 100    |
| 12) 2,2'-oxybis(1-Chloropropan | 8.34  | 45  | 87855  | 21.48 | ng/ul | 99     |
| 14) Acetophenone               | 8.63  | 105 | 108779 | 21.60 | ng/ul | 98     |
| 15) N-Nitroso-di-n-propylamine | 8.61  | 70  | 52830  | 19.89 | ng/ul | 98     |
| 16) 4-Methylphenol             | 8.57  | 108 | 74550  | 20.79 | ng/ul | 99     |
| 17) Hexachloroethane           | 8.88  | 117 | 27962  | 20.39 | ng/ul | 97     |
| 20) Nitrobenzene               | 9.00  | 77  | 79213  | 20.58 | ng/ul | 100    |
| 21) Isophorone                 | 9.52  | 82  | 143112 | 19.60 | ng/ul | 98     |
| 23) 2-Nitrophenol              | 9.72  | 139 | 39187  | 19.95 | ng/ul | 96     |
| 24) 2,4-Dimethylphenol         | 9.77  | 107 | 81950  | 20.73 | ng/ul | 98     |
| 25) Bis(2-Chloroethoxy)methane | 10.01 | 93  | 90762  | 19.79 | ng/ul | 99     |
| 27) 2,4-Dichlorophenol         | 10.25 | 162 | 68573  | 20.20 | ng/ul | 99     |
| 28) Naphthalene                | 10.65 | 128 | 228545 | 20.62 | ng/ul | 100    |
| 30) 4-Chloroaniline            | 10.76 | 127 | 90070  | 23.48 | ng/ul | 99     |
| 31) Hexachlorobutadiene        | 10.93 | 225 | 44857  | 20.49 | ng/ul | 99     |
| 32) Caprolactam                | 11.51 | 113 | 18594  | 17.81 | ng/ul | 93     |
| 33) 4-Chloro-3-methylphenol    | 11.88 | 107 | 72337  | 19.33 | ng/ul | 99     |
| 34) 2-Methylnaphthalene        | 12.26 | 142 | 163474 | 20.24 | ng/ul | 99     |

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 Sample : SSTDC0020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02063

Quant Time: Apr 21 10:21:53 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM041416.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Apr 15 22:59:24 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.63 | 216  | 84924    | 20.66 | ng/ul  | 98       |
| 37) Hexachlorocyclopentadiene  | 12.60 | 237  | 49285    | 22.40 | ng/ul  | 97       |
| 38) 2,4,6-Trichlorophenol      | 12.87 | 196  | 53296    | 19.71 | ng/ul  | 99       |
| 39) 2,4,5-Trichlorophenol      | 12.94 | 196  | 58743    | 20.13 | ng/ul  | 100      |
| 40) 1,1'-Biphenyl              | 13.27 | 154  | 213012   | 20.63 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.32 | 162  | 163095   | 20.76 | ng/ul  | 100      |
| 42) 2-Nitroaniline             | 13.53 | 65   | 41920    | 18.97 | ng/ul  | 98       |
| 44) Dimethylphthalate          | 13.90 | 163  | 197140   | 20.23 | ng/ul  | 100      |
| 45) 2,6-Dinitrotoluene         | 14.02 | 165  | 38000    | 19.58 | ng/ul  | 94       |
| 47) Acenaphthylene             | 14.17 | 152  | 264365   | 20.74 | ng/ul  | 100      |
| 48) 3-Nitroaniline             | 14.35 | 138  | 41520    | 21.17 | ng/ul  | 99       |
| 49) Acenaphthene               | 14.51 | 153  | 172021   | 20.73 | ng/ul  | 100      |
| 50) 2,4-Dinitrophenol          | 14.56 | 184  | 17274    | 20.11 | ng/ul  | 98       |
| 52) 4-Nitrophenol              | 14.66 | 109  | 27622    | 19.59 | ng/ul  | 96       |
| 53) Dibenzofuran               | 14.84 | 168  | 247373   | 20.59 | ng/ul  | 100      |
| 54) 2,4-Dinitrotoluene         | 14.81 | 165  | 56090    | 20.31 | ng/ul  | 97       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.07 | 232  | 48126    | 20.05 | ng/ul  | 99       |
| 56) Diethylphthalate           | 15.26 | 149  | 190718   | 19.99 | ng/ul  | 99       |
| 58) Fluorene                   | 15.49 | 166  | 192364   | 20.82 | ng/ul  | 100      |
| 59) 4-Chlorophenyl-phenylether | 15.49 | 204  | 95162    | 20.55 | ng/ul  | 98       |
| 60) 4-Nitroaniline             | 15.52 | 138  | 41921    | 20.58 | ng/ul  | 98       |
| 63) 4,6-Dinitro-2-methylphenol | 15.57 | 198  | 31849    | 22.14 | ng/ul# | 96       |
| 64) N-Nitrosodiphenylamine     | 15.70 | 169  | 166618   | 20.26 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.38 | 248  | 57775    | 19.72 | ng/ul  | 99       |
| 66) Hexachlorobenzene          | 16.50 | 284  | 65998    | 20.11 | ng/ul  | 96       |
| 67) Atrazine                   | 16.65 | 200  | 57026    | 20.48 | ng/ul  | 97       |
| 68) Pentachlorophenol          | 16.84 | 266  | 34199    | 18.96 | ng/ul  | 98       |
| 69) Phenanthrene               | 17.23 | 178  | 305540   | 20.55 | ng/ul  | 99       |
| 71) Anthracene                 | 17.32 | 178  | 312577   | 20.78 | ng/ul  | 99       |
| 72) Carbazole                  | 17.59 | 167  | 280973   | 22.19 | ng/ul  | 100      |
| 73) Di-n-butylphthalate        | 18.15 | 149  | 297770   | 19.53 | ng/ul  | 100      |
| 74) Fluoranthene               | 19.24 | 202  | 346541   | 22.62 | ng/ul  | 99       |
| 77) Pyrene                     | 19.61 | 202  | 361475   | 19.41 | ng/ul  | 99       |
| 78) Butylbenzylphthalate       | 20.51 | 149  | 129981   | 18.05 | ng/ul  | 98       |
| 79) 3,3'-Dichlorobenzidine     | 21.29 | 252  | 118275   | 22.90 | ng/ul  | 98       |
| 80) Benzo(a)anthracene         | 21.36 | 228  | 352821   | 20.33 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.28 | 149  | 186594   | 18.94 | ng/ul  | 100      |
| 82) Chrysene                   | 21.41 | 228  | 339133   | 20.63 | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 22.17 | 149  | 326097   | 19.33 | ng/ul  | 98       |
| 85) Benzo(b)fluoranthene       | 22.97 | 252  | 356166   | 20.43 | ng/ul  | 99       |
| 86) Benzo(k)fluoranthene       | 23.02 | 252  | 346539   | 20.61 | ng/ul  | 99       |
| 88) Benzo(a)pyrene             | 23.56 | 252  | 342847   | 20.53 | ng/ul  | 99       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.97 | 276  | 384127   | 20.68 | ng/ul  | 100      |
| 90) Dibenzo(a,h)anthracene     | 25.98 | 278  | 321527   | 20.66 | ng/ul  | 99       |
| 91) Benzo(g,h,i)perylene       | 26.68 | 276  | 321936   | 20.58 | ng/ul  | 99       |

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

