

Data Path : Z:\HPCHEM1\BNA M\DATA\BM052016\  
 Data File : BM005527.D  
 Acq On : 20 May 2016 19:08  
 Operator : UM/SJ  
 Sample : SSTD02052  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02052

Quant Time: May 20 20:47:38 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM052016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 20 20:29:59 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.83  | 152  | 82100    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.62 | 136  | 358463   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.46 | 164  | 208277   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.20 | 188  | 470336   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.37 | 240  | 548408   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.65 | 264  | 574747   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.31  | 96  | 15104  | 7.23  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.99  | 99  | 141876 | 18.26 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.16  | 67  | 82413  | 19.33 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.36  | 132 | 116306 | 19.27 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.53  | 113 | 118356 | 18.00 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.98  | 128 | 55805  | 21.12 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.70  | 143 | 62301  | 21.63 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.23 | 165 | 117462 | 20.68 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.75 | 131 | 117883 | 19.49 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.86 | 166 | 347954 | 20.21 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.15 | 160 | 441861 | 21.45 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.65 | 143 | 66848  | 19.21 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.44 | 176 | 302289 | 19.97 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.56 | 200 | 54080  | 21.32 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.29 | 188 | 463025 | 21.12 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.59 | 212 | 511401 | 22.46 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.50 | 264 | 545300 | 20.98 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       | Ovalue    |
|--------------------------------|-------|-----|--------|-------|-----------|
| 2) 1,4-Dioxane                 | 3.34  | 88  | 26649  | 10.37 | ng/uL 100 |
| 4) Benzaldehyde                | 6.97  | 77  | 97469  | 25.34 | ng/ul 100 |
| 6) Phenol                      | 7.02  | 94  | 148261 | 18.23 | ng/ul 100 |
| 8) Bis(2-Chloroethyl)ether     | 7.25  | 93  | 111163 | 18.94 | ng/ul 100 |
| 10) 2-Chlorophenol             | 7.39  | 128 | 115965 | 18.79 | ng/ul 100 |
| 11) 2-Methylphenol             | 8.26  | 108 | 111046 | 17.63 | ng/ul 100 |
| 12) 2,2'-oxybis(1-Chloropropan | 8.36  | 45  | 149259 | 18.16 | ng/ul 100 |
| 14) Acetophenone               | 8.65  | 105 | 181664 | 18.29 | ng/ul 100 |
| 15) N-Nitroso-di-n-propylamine | 8.63  | 70  | 94109  | 16.99 | ng/ul 100 |
| 16) 4-Methylphenol             | 8.59  | 108 | 122535 | 17.46 | ng/ul 100 |
| 17) Hexachloroethane           | 8.90  | 117 | 47168  | 20.53 | ng/ul 100 |
| 20) Nitrobenzene               | 9.02  | 77  | 135730 | 20.80 | ng/ul 100 |
| 21) Isophorone                 | 9.55  | 82  | 259585 | 19.70 | ng/ul 100 |
| 23) 2-Nitrophenol              | 9.73  | 139 | 67542  | 21.64 | ng/ul 100 |
| 24) 2,4-Dimethylphenol         | 9.79  | 107 | 138016 | 20.23 | ng/ul 100 |
| 25) Bis(2-Chloroethoxy)methane | 10.03 | 93  | 150969 | 19.47 | ng/ul 100 |
| 27) 2,4-Dichlorophenol         | 10.26 | 162 | 117379 | 20.52 | ng/ul 100 |
| 28) Naphthalene                | 10.66 | 128 | 371191 | 20.25 | ng/ul 100 |
| 30) 4-Chloroaniline            | 10.77 | 127 | 121634 | 18.89 | ng/ul 100 |
| 31) Hexachlorobutadiene        | 10.95 | 225 | 75814  | 22.70 | ng/ul 100 |
| 32) Caprolactam                | 11.53 | 113 | 38760  | 18.33 | ng/ul 100 |
| 33) 4-Chloro-3-methylphenol    | 11.89 | 107 | 129383 | 18.78 | ng/ul 100 |
| 34) 2-Methylnaphthalene        | 12.27 | 142 | 272959 | 19.20 | ng/ul 100 |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.65 | 216  | 148513   | 22.62 | ng/ul | 100      |
| 37) Hexachlorocyclopentadiene  | 12.62 | 237  | 89772    | 24.16 | ng/ul | 100      |
| 38) 2,4,6-Trichlorophenol      | 12.89 | 196  | 96286    | 21.54 | ng/ul | 100      |
| 39) 2,4,5-Trichlorophenol      | 12.95 | 196  | 105766   | 21.60 | ng/ul | 100      |
| 40) 1,1'-Biphenyl              | 13.29 | 154  | 359674   | 21.16 | ng/ul | 100      |
| 41) 2-Chloronaphthalene        | 13.33 | 162  | 277044   | 21.19 | ng/ul | 100      |
| 42) 2-Nitroaniline             | 13.53 | 65   | 84736    | 20.65 | ng/ul | 100      |
| 44) Dimethylphthalate          | 13.91 | 163  | 340844   | 19.61 | ng/ul | 100      |
| 45) 2,6-Dinitrotoluene         | 14.03 | 165  | 69546    | 20.46 | ng/ul | 100      |
| 47) Acenaphthylene             | 14.17 | 152  | 448932   | 21.14 | ng/ul | 100      |
| 48) 3-Nitroaniline             | 14.36 | 138  | 66809    | 19.16 | ng/ul | 100      |
| 49) Acenaphthene               | 14.52 | 153  | 295126   | 20.48 | ng/ul | 100      |
| 50) 2,4-Dinitrophenol          | 14.56 | 184  | 36565    | 18.46 | ng/ul | 100      |
| 52) 4-Nitrophenol              | 14.66 | 109  | 65404    | 20.68 | ng/ul | 100      |
| 53) Dibenzofuran               | 14.86 | 168  | 419563   | 20.04 | ng/ul | 100      |
| 54) 2,4-Dinitrotoluene         | 14.82 | 165  | 102821   | 20.19 | ng/ul | 100      |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.08 | 232  | 91913    | 20.16 | ng/ul | 100      |
| 56) Diethylphthalate           | 15.28 | 149  | 352384   | 19.24 | ng/ul | 100      |
| 58) Fluorene                   | 15.50 | 166  | 336283   | 19.62 | ng/ul | 100      |
| 59) 4-Chlorophenyl-phenylether | 15.50 | 204  | 168643   | 20.28 | ng/ul | 100      |
| 60) 4-Nitroaniline             | 15.52 | 138  | 80669    | 19.42 | ng/ul | 100      |
| 63) 4,6-Dinitro-2-methylphenol | 15.57 | 198  | 57919    | 21.04 | ng/ul | 100      |
| 64) N-Nitrosodiphenylamine     | 15.71 | 169  | 296411   | 21.77 | ng/ul | 100      |
| 65) 4-Bromophenyl-phenylether  | 16.39 | 248  | 108199   | 22.16 | ng/ul | 100      |
| 66) Hexachlorobenzene          | 16.50 | 284  | 123887   | 21.86 | ng/ul | 100      |
| 67) Atrazine                   | 16.66 | 200  | 112285   | 23.17 | ng/ul | 100      |
| 68) Pentachlorophenol          | 16.84 | 266  | 73654    | 20.57 | ng/ul | 100      |
| 69) Phenanthrene               | 17.24 | 178  | 541784   | 20.18 | ng/ul | 100      |
| 71) Anthracene                 | 17.33 | 178  | 551987   | 20.74 | ng/ul | 100      |
| 72) Carbazole                  | 17.60 | 167  | 496801   | 20.87 | ng/ul | 100      |
| 73) Di-n-butylphthalate        | 18.16 | 149  | 588975   | 19.95 | ng/ul | 100      |
| 74) Fluoranthene               | 19.25 | 202  | 635656   | 20.61 | ng/ul | 100      |
| 77) Pyrene                     | 19.61 | 202  | 651940   | 21.71 | ng/ul | 100      |
| 78) Butylbenzylphthalate       | 20.52 | 149  | 275021   | 21.60 | ng/ul | 100      |
| 79) 3,3'-Dichlorobenzidine     | 21.29 | 252  | 225098   | 21.49 | ng/ul | 100      |
| 80) Benzo(a)anthracene         | 21.36 | 228  | 661908   | 20.40 | ng/ul | 100      |
| 81) Bis(2-ethylhexyl)phthalate | 21.29 | 149  | 389303   | 20.79 | ng/ul | 100      |
| 82) Chrysene                   | 21.41 | 228  | 635497   | 20.69 | ng/ul | 100      |
| 84) Di-n-octyl phthalate       | 22.18 | 149  | 700490   | 22.49 | ng/ul | 100      |
| 85) Benzo(b)fluoranthene       | 22.96 | 252  | 684488   | 20.79 | ng/ul | 100      |
| 86) Benzo(k)fluoranthene       | 23.01 | 252  | 665152   | 20.61 | ng/ul | 100      |
| 88) Benzo(a)pyrene             | 23.55 | 252  | 673413   | 20.53 | ng/ul | 100      |
| 89) Indeno(1,2,3-cd)pyrene     | 25.96 | 276  | 804894   | 18.93 | ng/ul | 100      |
| 90) Dibenzo(a,h)anthracene     | 25.97 | 278  | 675800   | 19.15 | ng/ul | 100      |
| 91) Benzo(g,h,i)perylene       | 26.66 | 276  | 671428   | 18.32 | ng/ul | 100      |

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

