

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM092316\  
 Data File : BM007523.D  
 Acq On : 23 Sep 2016 14:09  
 Operator : UM/SJ  
 Sample : SSTD01044  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD01044

Quant Time: Sep 23 16:32:48 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM092316.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Sep 23 16:29:20 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.79  | 152  | 145745   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.56 | 136  | 650962   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.42 | 164  | 521343   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.16 | 188  | 1194834  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.34 | 240  | 1767909  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.61 | 264  | 1801249  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.30  | 96  | 12232  | 4.29  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.96  | 99  | 115835 | 8.41  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.12  | 67  | 70038  | 9.68  | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.32  | 132 | 90442  | 8.89  | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.49  | 113 | 98341  | 8.19  | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.94  | 128 | 45424  | 9.50  | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.66  | 143 | 50750  | 9.09  | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.19 | 165 | 104777 | 9.43  | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.71 | 131 | 100607 | 7.26  | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.83 | 166 | 380800 | 8.47  | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.11 | 160 | 434108 | 8.33  | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.63 | 143 | 58538  | 6.89  | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.41 | 176 | 336093 | 8.64  | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.54 | 200 | 62417  | 8.31  | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.26 | 188 | 558128 | 10.00 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.55 | 212 | 703623 | 9.52  | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.46 | 264 | 799191 | 9.63  | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       | Qvalue   |
|--------------------------------|-------|-----|--------|-------|----------|
| 2) 1,4-Dioxane                 | 3.34  | 88  | 11793  | 3.71  | ng/ul 92 |
| 4) Benzaldehyde                | 6.93  | 77  | 83345  | 10.63 | ng/ul 98 |
| 6) Phenol                      | 6.98  | 94  | 119636 | 8.38  | ng/ul 97 |
| 8) Bis(2-Chloroethyl)ether     | 7.21  | 93  | 92080  | 9.26  | ng/ul 96 |
| 10) 2-Chlorophenol             | 7.35  | 128 | 90605  | 8.70  | ng/ul 97 |
| 11) 2-Methylphenol             | 8.22  | 108 | 90305  | 8.09  | ng/ul 99 |
| 12) 2,2'-oxybis(1-Chloropropan | 8.32  | 45  | 101719 | 9.09  | ng/ul 95 |
| 14) Acetophenone               | 8.60  | 105 | 161566 | 8.77  | ng/ul 99 |
| 15) N-Nitroso-di-n-propylamine | 8.58  | 70  | 84100  | 8.59  | ng/ul 92 |
| 16) 4-Methylphenol             | 8.55  | 108 | 101269 | 8.09  | ng/ul 95 |
| 17) Hexachloroethane           | 8.85  | 117 | 38548  | 9.51  | ng/ul 94 |
| 20) Nitrobenzene               | 8.98  | 77  | 119151 | 9.71  | ng/ul 97 |
| 21) Isophorone                 | 9.50  | 82  | 226085 | 9.04  | ng/ul 98 |
| 23) 2-Nitrophenol              | 9.69  | 139 | 54064  | 8.91  | ng/ul 93 |
| 24) 2,4-Dimethylphenol         | 9.75  | 107 | 126781 | 9.47  | ng/ul 97 |
| 25) Bis(2-Chloroethoxy)methane | 9.98  | 93  | 134674 | 9.56  | ng/ul 98 |
| 27) 2,4-Dichlorophenol         | 10.22 | 162 | 103036 | 9.34  | ng/ul 99 |
| 28) Naphthalene                | 10.62 | 128 | 321032 | 9.92  | ng/ul 99 |
| 30) 4-Chloroaniline            | 10.73 | 127 | 114450 | 8.02  | ng/ul 98 |
| 31) Hexachlorobutadiene        | 10.90 | 225 | 78186  | 10.48 | ng/ul 98 |
| 32) Caprolactam                | 11.50 | 113 | 33846  | 7.61  | ng/ul 90 |
| 33) 4-Chloro-3-methylphenol    | 11.86 | 107 | 124899 | 9.14  | ng/ul 90 |
| 34) 2-Methylnaphthalene        | 12.23 | 142 | 251604 | 9.50  | ng/ul 98 |

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 Quant Title : SVOA CALIBRATION  
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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.60 | 216  | 154825   | 8.92  | ng/ul  | 96       |
| 37) Hexachlorocyclopentadiene  | 12.57 | 237  | 65966    | 6.30  | ng/ul  | 99       |
| 38) 2,4,6-Trichlorophenol      | 12.85 | 196  | 95479    | 7.78  | ng/ul  | 96       |
| 39) 2,4,5-Trichlorophenol      | 12.92 | 196  | 103209   | 8.06  | ng/ul  | 96       |
| 40) 1,1'-Biphenyl              | 13.24 | 154  | 348527   | 8.62  | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.29 | 162  | 270177   | 8.52  | ng/ul  | 99       |
| 42) 2-Nitroaniline             | 13.50 | 65   | 77637    | 7.50  | ng/ul  | 97       |
| 44) Dimethylphthalate          | 13.87 | 163  | 372900   | 8.32  | ng/ul  | 99       |
| 45) 2,6-Dinitrotoluene         | 14.00 | 165  | 67706    | 7.39  | ng/ul  | 93       |
| 47) Acenaphthylene             | 14.13 | 152  | 440242   | 8.21  | ng/ul  | 100      |
| 48) 3-Nitroaniline             | 14.33 | 138  | 67800    | 7.25  | ng/ul# | 90       |
| 49) Acenaphthene               | 14.48 | 153  | 302371   | 8.66  | ng/ul  | 99       |
| 50) 2,4-Dinitrophenol          | 14.54 | 184  | 36618    | 5.90  | ng/ul  | 92       |
| 52) 4-Nitrophenol              | 14.64 | 109  | 61408    | 6.80  | ng/ul  | 91       |
| 53) Dibenzofuran               | 14.82 | 168  | 449288   | 8.60  | ng/ul  | 99       |
| 54) 2,4-Dinitrotoluene         | 14.79 | 165  | 108889   | 7.76  | ng/ul  | 93       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.04 | 232  | 102850   | 7.83  | ng/ul  | 97       |
| 56) Diethylphthalate           | 15.24 | 149  | 380071   | 8.13  | ng/ul  | 99       |
| 58) Fluorene                   | 15.46 | 166  | 375168   | 8.72  | ng/ul  | 96       |
| 59) 4-Chlorophenyl-phenylether | 15.46 | 204  | 197952   | 8.80  | ng/ul  | 96       |
| 60) 4-Nitroaniline             | 15.49 | 138  | 76989    | 7.26  | ng/ul  | 98       |
| 63) 4,6-Dinitro-2-methylphenol | 15.55 | 198  | 65507    | 8.17  | ng/ul  | 99       |
| 64) N-Nitrosodiphenylamine     | 15.67 | 169  | 330776   | 9.92  | ng/ul  | 100      |
| 65) 4-Bromophenyl-phenylether  | 16.35 | 248  | 128271   | 9.51  | ng/ul  | 94       |
| 66) Hexachlorobenzene          | 16.47 | 284  | 148892   | 9.86  | ng/ul  | 96       |
| 67) Atrazine                   | 16.62 | 200  | 130689   | 9.28  | ng/ul  | 98       |
| 68) Pentachlorophenol          | 16.82 | 266  | 82343    | 8.45  | ng/ul  | 96       |
| 69) Phenanthrene               | 17.20 | 178  | 650170   | 10.14 | ng/ul  | 100      |
| 71) Anthracene                 | 17.29 | 178  | 655920   | 9.91  | ng/ul  | 98       |
| 72) Carbazole                  | 17.57 | 167  | 590970   | 10.27 | ng/ul  | 98       |
| 73) Di-n-butylphthalate        | 18.12 | 149  | 641509   | 8.86  | ng/ul  | 99       |
| 74) Fluoranthene               | 19.22 | 202  | 832609   | 10.34 | ng/ul  | 99       |
| 77) Pyrene                     | 19.58 | 202  | 887034   | 9.35  | ng/ul  | 97       |
| 78) Butylbenzylphthalate       | 20.47 | 149  | 323646   | 8.20  | ng/ul  | 98       |
| 79) 3,3'-Dichlorobenzidine     | 21.26 | 252  | 324375   | 9.24  | ng/ul  | 97       |
| 80) Benzo(a)anthracene         | 21.33 | 228  | 985292   | 9.45  | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.25 | 149  | 472293   | 8.25  | ng/ul  | 99       |
| 82) Chrysene                   | 21.37 | 228  | 942085   | 9.98  | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 22.13 | 149  | 872440   | 9.72  | ng/ul  | 99       |
| 85) Benzo(b)fluoranthene       | 22.93 | 252  | 1019698  | 9.57  | ng/ul  | 99       |
| 86) Benzo(k)fluoranthene       | 22.97 | 252  | 998656   | 10.15 | ng/ul  | 99       |
| 88) Benzo(a)pyrene             | 23.51 | 252  | 980780   | 9.62  | ng/ul  | 99       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.90 | 276  | 1042416  | 8.34  | ng/ul  | 99       |
| 90) Dibenzo(a,h)anthracene     | 25.91 | 278  | 855913   | 8.23  | ng/ul  | 98       |
| 91) Benzo(g,h,i)perylene       | 26.60 | 276  | 867535   | 8.17  | ng/ul  | 99       |

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

