

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM080415\  
 Data File : BM002212.D  
 Acq On : 04 Aug 2015 16:35  
 Operator : TP/UM  
 Sample : SSTD01097  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD01097

Manual Integrations  
 APPROVED

MMDadoda  
 8/7/2015 4:42:03 PM

Quant Time: Aug 05 02:08:35 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM080415.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Aug 05 01:38:01 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.52  | 152  | 67341    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.31 | 136  | 290061   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.20 | 164  | 190967   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 16.96 | 188  | 431338   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.17 | 240  | 422334   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.35 | 264  | 349942   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 2.96  | 96  | 5013   | 3.95  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.71  | 99  | 50401  | 10.47 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.86  | 67  | 27205  | 10.31 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.06  | 132 | 43440  | 10.66 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.25  | 113 | 43473  | 11.20 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.69  | 128 | 21021  | 10.18 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.40  | 143 | 24972  | 10.82 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.95  | 165 | 47928  | 10.78 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.46 | 131 | 56481  | 11.42 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.61 | 166 | 146405 | 10.59 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.89 | 160 | 178785 | 10.28 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.45 | 143 | 17756  | 8.03  | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.20 | 176 | 129394 | 10.63 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.35 | 200 | 21049  | 8.07  | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.05 | 188 | 196061 | 10.26 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.36 | 212 | 207944 | 11.39 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.21 | 264 | 173380 | 10.31 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       |       | Qvalue |
|--------------------------------|-------|-----|--------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.00  | 88  | 4847   | 3.57  | ng/uL | 93     |
| 4) Benzaldehyde                | 6.67  | 77  | 27502  | 10.73 | ng/ul | 98     |
| 6) Phenol                      | 6.74  | 94  | 51527  | 10.48 | ng/ul | 98     |
| 8) Bis(2-Chloroethyl)ether     | 6.96  | 93  | 37737  | 10.24 | ng/ul | 98     |
| 10) 2-Chlorophenol             | 7.09  | 128 | 43470  | 10.65 | ng/ul | 97     |
| 11) 2-Methylphenol             | 7.98  | 108 | 41117  | 10.93 | ng/ul | 99     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.06  | 45  | 37574  | 10.07 | ng/ul | 97     |
| 14) Acetophenone               | 8.35  | 105 | 70239  | 11.45 | ng/ul | 98     |
| 15) N-Nitroso-di-n-propylamine | 8.33  | 70  | 34682  | 11.68 | ng/ul | 99     |
| 16) 4-Methylphenol             | 8.31  | 108 | 45786  | 11.24 | ng/ul | 99     |
| 17) Hexachloroethane           | 8.58  | 117 | 16575  | 9.99  | ng/ul | 96     |
| 20) Nitrobenzene               | 8.73  | 77  | 47074  | 9.81  | ng/ul | 98     |
| 21) Isophorone                 | 9.25  | 82  | 95845  | 11.07 | ng/ul | 98     |
| 23) 2-Nitrophenol              | 9.43  | 139 | 26875  | 10.70 | ng/ul | 99     |
| 24) 2,4-Dimethylphenol         | 9.50  | 107 | 52626  | 10.71 | ng/ul | 97     |
| 25) Bis(2-Chloroethoxy)methane | 9.73  | 93  | 54775  | 10.45 | ng/ul | 100    |
| 27) 2,4-Dichlorophenol         | 9.97  | 162 | 46211  | 10.72 | ng/ul | 98     |
| 28) Naphthalene                | 10.36 | 128 | 140440 | 10.25 | ng/ul | 99     |
| 30) 4-Chloroaniline            | 10.48 | 127 | 59532  | 11.59 | ng/ul | 99     |
| 31) Hexachlorobutadiene        | 10.63 | 225 | 31912  | 10.03 | ng/ul | 97     |
| 32) Caprolactam                | 11.25 | 113 | 13965m | 11.67 | ng/ul |        |
| 33) 4-Chloro-3-methylphenol    | 11.63 | 107 | 49681  | 11.62 | ng/ul | 100    |
| 34) 2-Methylnaphthalene        | 11.99 | 142 | 111175 | 11.04 | ng/ul | 99     |

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|--------------------------------|-------|------|----------|-------|--------|----------|
| 35) 1-Methylnaphthalene        | 12.21 | 142  | 105907   | 10.96 | ng/ul  | 98       |
| 37) 1,2,4,5-Tetrachlorobenzene | 12.37 | 216  | 63084    | 9.50  | ng/ul  | 97       |
| 38) Hexachlorocyclopentadiene  | 12.33 | 237  | 15685    | 4.41  | ng/ul  | 97       |
| 39) 2,4,6-Trichlorophenol      | 12.62 | 196  | 39807    | 10.20 | ng/ul  | 99       |
| 40) 2,4,5-Trichlorophenol      | 12.70 | 196  | 42282    | 10.06 | ng/ul  | 97       |
| 41) 1,1'-Biphenyl              | 13.02 | 154  | 145246   | 9.91  | ng/ul  | 99       |
| 42) 2-Chloronaphthalene        | 13.06 | 162  | 112938   | 9.93  | ng/ul  | 99       |
| 43) 2-Nitroaniline             | 13.29 | 65   | 30093    | 10.64 | ng/ul  | 99       |
| 45) Dimethylphthalate          | 13.66 | 163  | 145281   | 10.51 | ng/ul  | 99       |
| 46) 2,6-Dinitrotoluene         | 13.79 | 165  | 29850    | 10.60 | ng/ul  | 96       |
| 48) Acenaphthylene             | 13.92 | 152  | 182493   | 10.21 | ng/ul  | 98       |
| 49) 3-Nitroaniline             | 14.12 | 138  | 26019    | 10.19 | ng/ul  | 95       |
| 50) Acenaphthene               | 14.26 | 153  | 119912   | 10.22 | ng/ul  | 99       |
| 51) 2,4-Dinitrophenol          | 14.36 | 184  | 6907     | 4.34  | ng/ul  | 93       |
| 53) 4-Nitrophenol              | 14.46 | 109  | 15898    | 8.57  | ng/ul  | 95       |
| 54) Dibenzofuran               | 14.60 | 168  | 173940   | 10.32 | ng/ul  | 97       |
| 55) 2,4-Dinitrotoluene         | 14.59 | 165  | 44257    | 10.99 | ng/ul  | 97       |
| 56) 2,3,4,6-Tetrachlorophenol  | 14.84 | 232  | 29098    | 8.60  | ng/ul# | 99       |
| 57) Diethylphthalate           | 15.03 | 149  | 144519   | 10.71 | ng/ul  | 99       |
| 59) Fluorene                   | 15.25 | 166  | 146547   | 10.56 | ng/ul  | 99       |
| 60) 4-Chlorophenyl-phenylether | 15.25 | 204  | 76689    | 10.29 | ng/ul  | 97       |
| 61) 4-Nitroaniline             | 15.29 | 138  | 27608    | 10.43 | ng/ul  | 96       |
| 64) 4,6-Dinitro-2-methylphenol | 15.37 | 198  | 21861    | 8.09  | ng/ul  | 98       |
| 65) N-Nitrosodiphenylamine     | 15.47 | 169  | 125800   | 10.13 | ng/ul  | 100      |
| 66) 4-Bromophenyl-phenylether  | 16.14 | 248  | 47608    | 10.28 | ng/ul  | 97       |
| 67) Hexachlorobenzene          | 16.26 | 284  | 52470    | 10.40 | ng/ul  | 98       |
| 68) Atrazine                   | 16.43 | 200  | 49644    | 10.54 | ng/ul  | 98       |
| 69) Pentachlorophenol          | 16.62 | 266  | 7532     | 3.28  | ng/ul  | 98       |
| 70) Phenanthrene               | 17.00 | 178  | 223243   | 10.06 | ng/ul  | 99       |
| 72) Anthracene                 | 17.09 | 178  | 228743   | 10.08 | ng/ul  | 99       |
| 73) 1,2,3,4-Tetrachlorobenzene | 12.99 | 216  | 63303    | 9.50  | ng/uL  | 99       |
| 74) Pentachlorobenzene         | 14.52 | 250  | 61255    | 9.86  | ng/uL  | 98       |
| 75) Carbazole                  | 17.36 | 167  | 195448   | 10.19 | ng/ul  | 99       |
| 76) Di-n-butylphthalate        | 17.92 | 149  | 234024   | 10.25 | ng/ul  | 99       |
| 77) Fluoranthene               | 19.03 | 202  | 254327   | 10.11 | ng/ul  | 100      |
| 80) Pyrene                     | 19.39 | 202  | 265987   | 11.26 | ng/ul  | 99       |
| 81) Butylbenzylphthalate       | 20.30 | 149  | 98547    | 11.16 | ng/ul  | 97       |
| 82) 3,3'-Dichlorobenzidine     | 21.09 | 252  | 68618    | 9.15  | ng/ul  | 98       |
| 83) Benzo(a)anthracene         | 21.15 | 228  | 245554   | 10.52 | ng/ul  | 99       |
| 84) Bis(2-ethylhexyl)phthalate | 21.07 | 149  | 138173   | 10.35 | ng/ul  | 99       |
| 85) Chrysene                   | 21.20 | 228  | 221453   | 10.14 | ng/ul  | 99       |
| 87) Di-n-octyl phthalate       | 21.94 | 149  | 213624   | 10.75 | ng/ul  | 100      |
| 88) Benzo(b)fluoranthene       | 22.70 | 252  | 204190   | 10.44 | ng/ul  | 99       |
| 89) Benzo(k)fluoranthene       | 22.74 | 252  | 202669   | 10.78 | ng/ul  | 100      |
| 91) Benzo(a)pyrene             | 23.26 | 252  | 193429   | 10.28 | ng/ul  | 100      |
| 92) Indeno(1,2,3-cd)pyrene     | 25.54 | 276  | 199154   | 9.18  | ng/ul  | 99       |
| 93) Dibenzo(a,h)anthracene     | 25.54 | 278  | 169948   | 9.13  | ng/ul  | 98       |
| 94) Benzo(g,h,i)perylene       | 26.21 | 276  | 164968   | 9.06  | ng/ul  | 98       |

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

