

Data Path : Z:\HPCHEM1\BNA\_M\Data\BM012015\  
 Data File : BM000272.D  
 Acq On : 20 Jan 2015 20:24  
 Operator : TP/IZ  
 Sample : SSTD02039  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 LabSampled :  
 SSTD02039

Manual Integrations  
 APPROVED

apatel  
 1/22/2015 5:09:58 PM

Quant Time: Jan 21 02:27:25 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM01.2-EPA-BM122914.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jan 21 02:17:41 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82  | 152  | 121427   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.61 | 136  | 472011   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.46 | 164  | 299175   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.20 | 188  | 630303   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.39 | 240  | 722361   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.67 | 264  | 694817   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.31  | 96  | 20628  | 9.85  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.98  | 99  | 187660 | 18.37 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.15  | 67  | 131161 | 20.31 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.35  | 132 | 139675 | 18.65 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.52  | 113 | 144047 | 17.73 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.97  | 128 | 72586  | 22.24 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.69  | 143 | 69101  | 20.74 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.23 | 165 | 138153 | 18.77 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.75 | 131 | 178692 | 21.39 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.86 | 166 | 427806 | 19.39 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.15 | 160 | 541208 | 20.47 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.65 | 143 | 60281  | 16.79 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.45 | 176 | 379484 | 20.03 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.57 | 200 | 55667  | 18.64 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.30 | 188 | 587071 | 20.14 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.59 | 212 | 651734 | 19.56 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.53 | 264 | 644024 | 20.42 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |              | Qvalue |
|--------------------------------|-------|-----|--------|--------------|--------|
| 2) 1,4-Dioxane                 | 3.35  | 88  | 27492  | 9.47 ng/uL   | 95     |
| 4) Benzaldehyde                | 6.96  | 77  | 152666 | 21.45 ng/ul  | 92     |
| 6) Phenol                      | 7.00  | 94  | 198551 | 18.43 ng/ul  | 95     |
| 8) Bis(2-Chloroethyl)ether     | 7.25  | 93  | 162741 | 19.46 ng/ul  | 95     |
| 10) 2-Chlorophenol             | 7.39  | 128 | 146958 | 18.75 ng/ul  | 93     |
| 11) 2-Methylphenol             | 8.26  | 108 | 147049 | 17.73 ng/ul  | 96     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.35  | 45  | 304026 | 22.12 ng/ul  | 98     |
| 14) Acetophenone               | 8.64  | 105 | 262301 | 18.37 ng/ul# | 93     |
| 15) N-Nitroso-di-n-propylamine | 8.62  | 70  | 137010 | 18.45 ng/ul# | 86     |
| 16) 4-Methylphenol             | 8.58  | 108 | 152986 | 17.08 ng/ul  | 98     |
| 17) Hexachloroethane           | 8.90  | 117 | 75391  | 21.05 ng/ul  | 93     |
| 20) Nitrobenzene               | 9.02  | 77  | 230911 | 23.73 ng/ul  | 97     |
| 21) Isophorone                 | 9.53  | 82  | 365012 | 19.46 ng/ul  | 98     |
| 23) 2-Nitrophenol              | 9.73  | 139 | 77952  | 21.19 ng/ul  | 90     |
| 24) 2,4-Dimethylphenol         | 9.78  | 107 | 192608 | 19.29 ng/ul  | 94     |
| 25) Bis(2-Chloroethoxy)methane | 10.02 | 93  | 207269 | 19.85 ng/ul  | 99     |
| 27) 2,4-Dichlorophenol         | 10.26 | 162 | 140948 | 19.18 ng/ul  | 99     |
| 28) Naphthalene                | 10.66 | 128 | 472663 | 19.64 ng/ul  | 99     |
| 30) 4-Chloroaniline            | 10.77 | 127 | 185455 | 21.58 ng/ul  | 99     |
| 31) Hexachlorobutadiene        | 10.95 | 225 | 109815 | 21.08 ng/ul  | 94     |
| 32) Caprolactam                | 11.52 | 113 | 38388m | 16.15 ng/ul  |        |
| 33) 4-Chloro-3-methylphenol    | 11.89 | 107 | 160577 | 17.81 ng/ul  | 99     |
| 34) 2-Methylnaphthalene        | 12.27 | 142 | 336541 | 18.86 ng/ul  | 97     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.65 | 216  | 184455   | 22.24 | ng/ul# | 96       |
| 37) Hexachlorocyclopentadiene  | 12.62 | 237  | 115098   | 22.31 | ng/ul  | 99       |
| 38) 2,4,6-Trichlorophenol      | 12.89 | 196  | 107895   | 20.39 | ng/ul  | 95       |
| 39) 2,4,5-Trichlorophenol      | 12.95 | 196  | 116053   | 20.20 | ng/ul  | 98       |
| 40) 1,1'-Biphenyl              | 13.29 | 154  | 448336   | 20.79 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.33 | 162  | 356931   | 21.60 | ng/ul  | 97       |
| 42) 2-Nitroaniline             | 13.53 | 65   | 119538   | 21.22 | ng/ul  | 95       |
| 44) Dimethylphthalate          | 13.91 | 163  | 431927   | 19.65 | ng/ul  | 98       |
| 45) 2,6-Dinitrotoluene         | 14.03 | 165  | 79633    | 20.26 | ng/ul# | 82       |
| 47) Acenaphthylene             | 14.18 | 152  | 568663   | 20.40 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.36 | 138  | 83829    | 20.09 | ng/ul  | 99       |
| 49) Acenaphthene               | 14.52 | 153  | 363601   | 20.47 | ng/ul  | 100      |
| 50) 2,4-Dinitrophenol          | 14.57 | 184  | 32885    | 17.15 | ng/ul# | 77       |
| 52) 4-Nitrophenol              | 14.66 | 109  | 96358    | 20.23 | ng/ul  | 91       |
| 53) Dibenzofuran               | 14.86 | 168  | 522840   | 20.32 | ng/ul  | 93       |
| 54) 2,4-Dinitrotoluene         | 14.82 | 165  | 124144   | 21.16 | ng/ul  | 98       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.08 | 232  | 96447    | 19.46 | ng/ul  | 98       |
| 56) Diethylphthalate           | 15.27 | 149  | 449685   | 19.47 | ng/ul  | 98       |
| 58) Fluorene                   | 15.50 | 166  | 435586   | 20.40 | ng/ul  | 98       |
| 59) 4-Chlorophenyl-phenylether | 15.50 | 204  | 214959   | 20.42 | ng/ul  | 98       |
| 60) 4-Nitroaniline             | 15.52 | 138  | 91200    | 19.51 | ng/ul  | 98       |
| 63) 4,6-Dinitro-2-methylphenol | 15.58 | 198  | 56824    | 18.47 | ng/ul# | 88       |
| 64) N-Nitrosodiphenylamine     | 15.71 | 169  | 359870   | 19.69 | ng/ul  | 96       |
| 65) 4-Bromophenyl-phenylether  | 16.39 | 248  | 131538   | 20.48 | ng/ul# | 89       |
| 66) Hexachlorobenzene          | 16.51 | 284  | 153414   | 20.72 | ng/ul  | 96       |
| 67) Atrazine                   | 16.66 | 200  | 126467   | 17.80 | ng/ul  | 95       |
| 68) Pentachlorophenol          | 16.85 | 266  | 71387    | 16.01 | ng/ul  | 92       |
| 69) Phenanthrene               | 17.24 | 178  | 691344   | 20.26 | ng/ul  | 99       |
| 71) Anthracene                 | 17.33 | 178  | 715875   | 20.41 | ng/ul  | 99       |
| 72) Carbazole                  | 17.60 | 167  | 627356   | 19.79 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.16 | 149  | 715028   | 18.97 | ng/ul# | 98       |
| 74) Fluoranthene               | 19.26 | 202  | 814644   | 20.43 | ng/ul  | 99       |
| 77) Pyrene                     | 19.62 | 202  | 875269   | 20.10 | ng/ul  | 98       |
| 78) Butylbenzylphthalate       | 20.52 | 149  | 309605   | 17.50 | ng/ul  | 91       |
| 79) 3,3'-Dichlorobenzidine     | 21.30 | 252  | 228839   | 17.97 | ng/ul  | 97       |
| 80) Benzo(a)anthracene         | 21.37 | 228  | 842847   | 20.21 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.30 | 149  | 469067   | 18.22 | ng/ul  | 99       |
| 82) Chrysene                   | 21.42 | 228  | 784835   | 20.42 | ng/ul  | 97       |
| 84) Di-n-octyl phthalate       | 22.19 | 149  | 820839   | 18.20 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 22.99 | 252  | 832104   | 18.77 | ng/ul  | 99       |
| 86) Benzo(k)fluoranthene       | 23.03 | 252  | 837911m  | 22.13 | ng/ul  |          |
| 88) Benzo(a)pyrene             | 23.57 | 252  | 789176   | 20.26 | ng/ul  | 98       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.99 | 276  | 901520   | 22.19 | ng/ul  | 97       |
| 90) Dibenzo(a,h)anthracene     | 26.01 | 278  | 758537   | 22.17 | ng/ul  | 97       |
| 91) Benzo(g,h,i)perylene       | 26.71 | 276  | 762683   | 22.85 | ng/ul  | 99       |

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

