

Data Path : Z:\HPCHEM1\BNA\_M\Data\BM020217\  
 Data File : BM008953.D  
 Acq On : 02 Feb 2017 09:40  
 Operator : SJ/MA  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02066

Manual Integrations  
 APPROVED

mohammad  
 2/3/2017 11:37:23 AM

Quant Time: Feb 02 17:36:56 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM013017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jan 31 23:55:30 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.92  | 152  | 53843    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.72 | 136  | 237589   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.55 | 164  | 194312   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.30 | 188  | 457285   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.47 | 240  | 564027   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.82 | 264  | 547304   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.37  | 96  | 11722  | 8.71  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.06  | 99  | 101222 | 20.12 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.25  | 67  | 87748  | 21.30 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.45  | 132 | 66940  | 21.56 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.61  | 113 | 78089  | 20.54 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.08  | 128 | 33767  | 19.68 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.80  | 143 | 38686  | 20.29 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.33 | 165 | 80059  | 19.93 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.86 | 131 | 77227  | 20.98 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.96 | 166 | 281908 | 19.79 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.25 | 160 | 334821 | 20.73 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.74 | 143 | 46476  | 19.99 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.55 | 176 | 270106 | 20.55 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.66 | 200 | 52830  | 17.84 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.40 | 188 | 443336 | 20.29 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.69 | 212 | 514167 | 20.68 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.67 | 264 | 510644 | 20.55 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |              | Qvalue |
|--------------------------------|-------|-----|--------|--------------|--------|
| 2) 1,4-Dioxane                 | 3.41  | 88  | 11814  | 6.97 ng/uL   | 96     |
| 4) Benzaldehyde                | 7.06  | 77  | 105923 | 21.06 ng/ul  | 97     |
| 6) Phenol                      | 7.09  | 94  | 105479 | 19.77 ng/ul# | 93     |
| 8) Bis(2-Chloroethyl)ether     | 7.34  | 93  | 79977  | 19.83 ng/ul  | 98     |
| 10) 2-Chlorophenol             | 7.47  | 128 | 69022  | 21.51 ng/ul  | 99     |
| 11) 2-Methylphenol             | 8.35  | 108 | 76316  | 20.40 ng/ul  | 98     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.45  | 45  | 168662 | 21.11 ng/ul# | 93     |
| 14) Acetophenone               | 8.74  | 105 | 144354 | 20.23 ng/ul  | 98     |
| 15) N-Nitroso-di-n-propylamine | 8.72  | 70  | 103054 | 21.98 ng/ul  | 91     |
| 16) 4-Methylphenol             | 8.67  | 108 | 82130  | 20.56 ng/ul  | 98     |
| 17) Hexachloroethane           | 8.99  | 117 | 42495  | 20.80 ng/ul  | 93     |
| 20) Nitrobenzene               | 9.12  | 77  | 158734 | 20.20 ng/ul  | 97     |
| 21) Isophorone                 | 9.64  | 82  | 245343 | 21.04 ng/ul# | 95     |
| 23) 2-Nitrophenol              | 9.83  | 139 | 41710  | 21.05 ng/ul  | 90     |
| 24) 2,4-Dimethylphenol         | 9.88  | 107 | 122849 | 20.41 ng/ul  | 94     |
| 25) Bis(2-Chloroethoxy)methane | 10.12 | 93  | 117243 | 19.77 ng/ul  | 93     |
| 27) 2,4-Dichlorophenol         | 10.36 | 162 | 79661  | 19.77 ng/ul  | 96     |
| 28) Naphthalene                | 10.77 | 128 | 240092 | 20.39 ng/ul  | 98     |
| 30) 4-Chloroaniline            | 10.87 | 127 | 78046  | 20.20 ng/ul  | 92     |
| 31) Hexachlorobutadiene        | 11.04 | 225 | 80037  | 20.12 ng/ul  | 98     |
| 32) Caprolactam                | 11.65 | 113 | 21949m | 17.93 ng/ul  |        |
| 33) 4-Chloro-3-methylphenol    | 11.99 | 107 | 107731 | 20.12 ng/ul# | 93     |
| 34) 2-Methylnaphthalene        | 12.37 | 142 | 190133 | 20.62 ng/ul  | 94     |

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 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02066

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 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jan 31 23:55:30 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.74 | 216  | 130883   | 20.06 | ng/ul  | 96       |
| 37) Hexachlorocyclopentadiene  | 12.71 | 237  | 90952    | 18.32 | ng/ul  | 99       |
| 38) 2,4,6-Trichlorophenol      | 12.98 | 196  | 77663    | 19.72 | ng/ul  | 95       |
| 39) 2,4,5-Trichlorophenol      | 13.05 | 196  | 86328m   | 20.11 | ng/ul  |          |
| 40) 1,1'-Biphenyl              | 13.39 | 154  | 273882   | 20.73 | ng/ul  | 96       |
| 41) 2-Chloronaphthalene        | 13.43 | 162  | 209004   | 20.19 | ng/ul  | 95       |
| 42) 2-Nitroaniline             | 13.63 | 65   | 112201   | 20.10 | ng/ul  | 90       |
| 44) Dimethylphthalate          | 14.00 | 163  | 279152   | 20.09 | ng/ul# | 99       |
| 45) 2,6-Dinitrotoluene         | 14.13 | 165  | 53132    | 19.98 | ng/ul  | 97       |
| 47) Acenaphthylene             | 14.27 | 152  | 321163   | 20.20 | ng/ul  | 100      |
| 48) 3-Nitroaniline             | 14.46 | 138  | 48722    | 21.35 | ng/ul  | 97       |
| 49) Acenaphthene               | 14.62 | 153  | 227071   | 19.90 | ng/ul  | 92       |
| 50) 2,4-Dinitrophenol          | 14.66 | 184  | 28239    | 14.06 | ng/ul# | 76       |
| 52) 4-Nitrophenol              | 14.75 | 109  | 95432    | 18.82 | ng/ul  | 94       |
| 53) Dibenzofuran               | 14.95 | 168  | 345446   | 19.86 | ng/ul  | 95       |
| 54) 2,4-Dinitrotoluene         | 14.92 | 165  | 82777    | 20.49 | ng/ul# | 99       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.17 | 232  | 83357    | 20.14 | ng/ul# | 96       |
| 56) Diethylphthalate           | 15.36 | 149  | 318864   | 20.71 | ng/ul  | 98       |
| 58) Fluorene                   | 15.60 | 166  | 300967   | 20.34 | ng/ul  | 90       |
| 59) 4-Chlorophenyl-phenylether | 15.59 | 204  | 169453   | 20.03 | ng/ul  | 94       |
| 60) 4-Nitroaniline             | 15.62 | 138  | 58918    | 19.96 | ng/ul  | 97       |
| 63) 4,6-Dinitro-2-methylphenol | 15.67 | 198  | 56828    | 18.97 | ng/ul  | 89       |
| 64) N-Nitrosodiphenylamine     | 15.80 | 169  | 262525   | 20.76 | ng/ul  | 97       |
| 65) 4-Bromophenyl-phenylether  | 16.49 | 248  | 107515   | 20.03 | ng/ul  | 93       |
| 66) Hexachlorobenzene          | 16.60 | 284  | 122197   | 21.13 | ng/ul  | 92       |
| 67) Atrazine                   | 16.75 | 200  | 106301   | 18.63 | ng/ul  | 94       |
| 68) Pentachlorophenol          | 16.94 | 266  | 72175    | 19.64 | ng/ul  | 87       |
| 69) Phenanthrene               | 17.34 | 178  | 497227   | 20.10 | ng/ul  | 99       |
| 71) Anthracene                 | 17.43 | 178  | 497729   | 19.57 | ng/ul  | 99       |
| 72) Carbazole                  | 17.70 | 167  | 438971   | 19.41 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.25 | 149  | 545992   | 20.39 | ng/ul  | 98       |
| 74) Fluoranthene               | 19.35 | 202  | 622353   | 18.84 | ng/ul  | 100      |
| 77) Pyrene                     | 19.72 | 202  | 648910   | 20.79 | ng/ul  | 98       |
| 78) Butylbenzylphthalate       | 20.60 | 149  | 245517   | 21.20 | ng/ul  | 97       |
| 79) 3,3'-Dichlorobenzidine     | 21.39 | 252  | 225436   | 20.47 | ng/ul  | 98       |
| 80) Benzo(a)anthracene         | 21.45 | 228  | 674213   | 20.68 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.36 | 149  | 341174   | 21.05 | ng/ul  | 96       |
| 82) Chrysene                   | 21.50 | 228  | 619463   | 20.10 | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 22.27 | 149  | 620310   | 18.70 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 23.10 | 252  | 649176   | 19.61 | ng/ul  | 99       |
| 86) Benzo(k)fluoranthene       | 23.15 | 252  | 627785m  | 19.79 | ng/ul  |          |
| 88) Benzo(a)pyrene             | 23.72 | 252  | 646628   | 20.44 | ng/ul# | 99       |
| 89) Indeno(1,2,3-cd)pyrene     | 26.23 | 276  | 674386   | 19.82 | ng/ul  | 96       |
| 90) Dibenzo(a,h)anthracene     | 26.23 | 278  | 566649   | 19.51 | ng/ul  | 99       |
| 91) Benzo(g,h,i)perylene       | 26.96 | 276  | 542882   | 19.48 | ng/ul  | 94       |

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

