

Data Path : Z:\HPCHEM1\BNA M\DATA\BM050916\  
 Data File : BM005352.D  
 Acq On : 09 May 2016 09:13  
 Operator : UM/SJ  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02057

Manual Integrations  
 APPROVED

sohil  
 5/10/2016 6:44:36 PM

Quant Time: May 10 04:21:46 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM050516.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat May 07 07:05:19 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.77  | 152  | 103177   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.56 | 136  | 481990   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.41 | 164  | 294926   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.16 | 188  | 693510   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.36 | 240  | 740842   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.63 | 264  | 687072   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.27  | 96  | 17144  | 7.81  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.94  | 99  | 184498 | 19.72 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.10  | 67  | 105496 | 19.76 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.30  | 132 | 144898 | 20.50 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.47  | 113 | 151648 | 19.61 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.93  | 128 | 72901  | 21.18 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.65  | 143 | 81805  | 21.00 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.18 | 165 | 150891 | 20.84 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.69 | 131 | 200902 | 23.05 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.82 | 166 | 473802 | 20.04 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.10 | 160 | 573333 | 20.68 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.62 | 143 | 77447  | 17.95 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.40 | 176 | 413313 | 20.25 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.53 | 200 | 81675  | 20.94 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.26 | 188 | 646585 | 21.09 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.56 | 212 | 727785 | 21.28 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.48 | 264 | 635316 | 20.89 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |             | Ovalue |
|--------------------------------|-------|-----|---------|-------------|--------|
| 2) 1,4-Dioxane                 | 3.30  | 88  | 30630   | 7.66 ng/uL# | 94     |
| 4) Benzaldehyde                | 6.92  | 77  | 117321m | 25.88 ng/ul |        |
| 6) Phenol                      | 6.97  | 94  | 192831  | 19.94 ng/ul | 99     |
| 8) Bis(2-Chloroethyl)ether     | 7.19  | 93  | 143631  | 19.73 ng/ul | 98     |
| 10) 2-Chlorophenol             | 7.33  | 128 | 145840  | 20.17 ng/ul | 98     |
| 11) 2-Methylphenol             | 8.21  | 108 | 147109  | 19.68 ng/ul | 100    |
| 12) 2,2'-oxybis(1-Chloropropan | 8.30  | 45  | 195775  | 19.82 ng/ul | 99     |
| 14) Acetophenone               | 8.59  | 105 | 236925  | 20.68 ng/ul | 98     |
| 15) N-Nitroso-di-n-propylamine | 8.57  | 70  | 119073  | 19.89 ng/ul | 97     |
| 16) 4-Methylphenol             | 8.54  | 108 | 163312  | 19.69 ng/ul | 95     |
| 17) Hexachloroethane           | 8.83  | 117 | 56612   | 20.81 ng/ul | 94     |
| 20) Nitrobenzene               | 8.97  | 77  | 175998  | 20.43 ng/ul | 97     |
| 21) Isophorone                 | 9.49  | 82  | 337860  | 20.20 ng/ul | 98     |
| 23) 2-Nitrophenol              | 9.67  | 139 | 87741   | 20.90 ng/ul | 99     |
| 24) 2,4-Dimethylphenol         | 9.73  | 107 | 183877  | 20.65 ng/ul | 98     |
| 25) Bis(2-Chloroethoxy)methane | 9.97  | 93  | 200678  | 19.26 ng/ul | 99     |
| 27) 2,4-Dichlorophenol         | 10.20 | 162 | 153946  | 20.76 ng/ul | 99     |
| 28) Naphthalene                | 10.60 | 128 | 493323  | 20.34 ng/ul | 99     |
| 30) 4-Chloroaniline            | 10.72 | 127 | 206019  | 23.18 ng/ul | 98     |
| 31) Hexachlorobutadiene        | 10.89 | 225 | 95935   | 21.77 ng/ul | 99     |
| 32) Caprolactam                | 11.48 | 113 | 51848m  | 18.77 ng/ul |        |
| 33) 4-Chloro-3-methylphenol    | 11.85 | 107 | 178589  | 20.08 ng/ul | 100    |
| 34) 2-Methylnaphthalene        | 12.22 | 142 | 365487  | 20.15 ng/ul | 99     |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.59 | 216  | 193096   | 21.52 | ng/ul  | 99       |
| 37) Hexachlorocyclopentadiene  | 12.57 | 237  | 88939    | 19.40 | ng/ul  | 94       |
| 38) 2,4,6-Trichlorophenol      | 12.84 | 196  | 123537   | 20.67 | ng/ul  | 93       |
| 39) 2,4,5-Trichlorophenol      | 12.91 | 196  | 138083   | 20.83 | ng/ul  | 97       |
| 40) 1,1'-Biphenyl              | 13.24 | 154  | 475556   | 20.35 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.28 | 162  | 369637   | 20.92 | ng/ul  | 98       |
| 42) 2-Nitroaniline             | 13.49 | 65   | 114666   | 21.08 | ng/ul  | 97       |
| 44) Dimethylphthalate          | 13.87 | 163  | 471190   | 19.95 | ng/ul  | 100      |
| 45) 2,6-Dinitrotoluene         | 13.99 | 165  | 100856   | 21.65 | ng/ul# | 89       |
| 47) Acenaphthylene             | 14.13 | 152  | 606884   | 20.69 | ng/ul  | 100      |
| 48) 3-Nitroaniline             | 14.32 | 138  | 105713   | 21.29 | ng/ul  | 96       |
| 49) Acenaphthene               | 14.47 | 153  | 394387   | 20.40 | ng/ul  | 99       |
| 50) 2,4-Dinitrophenol          | 14.53 | 184  | 42663    | 15.92 | ng/ul  | 98       |
| 52) 4-Nitrophenol              | 14.64 | 109  | 67508    | 18.82 | ng/ul  | 92       |
| 53) Dibenzofuran               | 14.81 | 168  | 573128   | 20.43 | ng/ul  | 100      |
| 54) 2,4-Dinitrotoluene         | 14.79 | 165  | 146789   | 21.13 | ng/ul  | 97       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.04 | 232  | 117939   | 20.92 | ng/ul# | 95       |
| 56) Diethylphthalate           | 15.23 | 149  | 481224   | 20.17 | ng/ul  | 99       |
| 58) Fluorene                   | 15.46 | 166  | 447787   | 20.42 | ng/ul  | 100      |
| 59) 4-Chlorophenyl-phenylether | 15.45 | 204  | 224253   | 20.64 | ng/ul  | 97       |
| 60) 4-Nitroaniline             | 15.49 | 138  | 107292   | 20.39 | ng/ul  | 96       |
| 63) 4,6-Dinitro-2-methylphenol | 15.55 | 198  | 85701    | 20.91 | ng/ul# | 89       |
| 64) N-Nitrosodiphenylamine     | 15.67 | 169  | 403197   | 21.23 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.35 | 248  | 144934   | 21.80 | ng/ul  | 96       |
| 66) Hexachlorobenzene          | 16.47 | 284  | 161633   | 21.67 | ng/ul  | 96       |
| 67) Atrazine                   | 16.62 | 200  | 154542   | 22.30 | ng/ul  | 97       |
| 68) Pentachlorophenol          | 16.82 | 266  | 84316    | 20.35 | ng/ul  | 96       |
| 69) Phenanthrene               | 17.20 | 178  | 755019   | 20.71 | ng/ul  | 99       |
| 71) Anthracene                 | 17.29 | 178  | 766662   | 21.09 | ng/ul  | 100      |
| 72) Carbazole                  | 17.56 | 167  | 694002   | 21.70 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.12 | 149  | 826430   | 21.18 | ng/ul  | 100      |
| 74) Fluoranthene               | 19.22 | 202  | 905113   | 22.40 | ng/ul  | 97       |
| 77) Pyrene                     | 19.59 | 202  | 914219   | 21.28 | ng/ul  | 98       |
| 78) Butylbenzylphthalate       | 20.48 | 149  | 399919   | 22.41 | ng/ul  | 99       |
| 79) 3,3'-Dichlorobenzidine     | 21.27 | 252  | 292867   | 21.99 | ng/ul  | 98       |
| 80) Benzo(a)anthracene         | 21.34 | 228  | 880429   | 20.66 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.26 | 149  | 561179   | 22.64 | ng/ul  | 98       |
| 82) Chrysene                   | 21.39 | 228  | 847907   | 20.97 | ng/ul  | 100      |
| 84) Di-n-octyl phthalate       | 22.14 | 149  | 1012757  | 25.24 | ng/ul  | 98       |
| 85) Benzo(b)fluoranthene       | 22.94 | 252  | 864840   | 21.53 | ng/ul  | 98       |
| 86) Benzo(k)fluoranthene       | 22.99 | 252  | 830128   | 21.96 | ng/ul  | 99       |
| 88) Benzo(a)pyrene             | 23.53 | 252  | 794002   | 20.90 | ng/ul  | 99       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.91 | 276  | 764686   | 18.45 | ng/ul  | 98       |
| 90) Dibenzo(a,h)anthracene     | 25.93 | 278  | 646620   | 18.64 | ng/ul  | 99       |
| 91) Benzo(g,h,i)perylene       | 26.62 | 276  | 626015   | 17.83 | ng/ul  | 96       |

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

