

Data Path : Z:\HPCHEM1\BNA\_M\Data\BM022316\  
 Data File : BM004358.D  
 Acq On : 23 Feb 2016 20:10  
 Operator : SJ/UM  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02052

Manual Integrations  
 APPROVED

UMANGI  
 2/24/2016 4:31:09 PM

Quant Time: Feb 24 02:52:43 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM022216.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Feb 24 01:02:10 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.62  | 152  | 30282    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.41 | 136  | 135300   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.29 | 164  | 80437    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.04 | 188  | 175967   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.24 | 240  | 153680   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.47 | 264  | 134600   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.08  | 96  | 4743   | 8.26  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.81  | 99  | 46171m | 18.18 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.96  | 67  | 24524  | 18.99 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.16  | 132 | 40770  | 18.62 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.35  | 113 | 40091  | 17.67 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.79  | 128 | 19513  | 18.96 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.50  | 143 | 22007  | 18.75 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.05 | 165 | 40049m | 18.88 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.56 | 131 | 54079  | 20.46 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.70 | 166 | 129633 | 18.79 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.97 | 160 | 158286 | 19.60 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.53 | 143 | 17455  | 15.74 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.28 | 176 | 112137 | 19.11 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.43 | 200 | 18975  | 17.55 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.13 | 188 | 169893 | 19.70 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.44 | 212 | 170000 | 22.87 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.33 | 264 | 135735 | 19.22 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       |        | Qvalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 2) 1,4-Dioxane                 | 3.12  | 88  | 5586   | 8.44  | ng/uL# | 93     |
| 4) Benzaldehyde                | 6.77  | 77  | 29896m | 21.76 | ng/ul  |        |
| 6) Phenol                      | 6.84  | 94  | 49245  | 18.19 | ng/ul  | 98     |
| 8) Bis(2-Chloroethyl)ether     | 7.05  | 93  | 37722  | 18.82 | ng/ul  | 97     |
| 10) 2-Chlorophenol             | 7.19  | 128 | 43405  | 19.07 | ng/ul  | 97     |
| 11) 2-Methylphenol             | 8.08  | 108 | 39067  | 17.69 | ng/ul  | 99     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.16  | 45  | 36435  | 18.93 | ng/ul  | 97     |
| 14) Acetophenone               | 8.45  | 105 | 64999  | 18.28 | ng/ul  | 97     |
| 15) N-Nitroso-di-n-propylamine | 8.43  | 70  | 30113  | 17.63 | ng/ul  | 97     |
| 16) 4-Methylphenol             | 8.41  | 108 | 43587  | 18.00 | ng/ul  | 99     |
| 17) Hexachloroethane           | 8.69  | 117 | 16670  | 19.27 | ng/ul  | 93     |
| 20) Nitrobenzene               | 8.82  | 77  | 43732  | 19.44 | ng/ul  | 97     |
| 21) Isophorone                 | 9.34  | 82  | 86181  | 18.48 | ng/ul  | 100    |
| 23) 2-Nitrophenol              | 9.53  | 139 | 25295  | 19.16 | ng/ul  | 92     |
| 24) 2,4-Dimethylphenol         | 9.60  | 107 | 50415  | 19.12 | ng/ul  | 98     |
| 25) Bis(2-Chloroethoxy)methane | 9.83  | 93  | 53175  | 18.92 | ng/ul  | 99     |
| 27) 2,4-Dichlorophenol         | 10.07 | 162 | 42842m | 19.17 | ng/ul  |        |
| 28) Naphthalene                | 10.46 | 128 | 145708 | 19.31 | ng/ul  | 100    |
| 30) 4-Chloroaniline            | 10.58 | 127 | 57156  | 20.53 | ng/ul  | 99     |
| 31) Hexachlorobutadiene        | 10.74 | 225 | 28047  | 20.00 | ng/ul  | 98     |
| 32) Caprolactam                | 11.34 | 113 | 12236m | 15.73 | ng/ul  |        |
| 33) 4-Chloro-3-methylphenol    | 11.73 | 107 | 46867  | 17.91 | ng/ul  | 96     |
| 34) 2-Methylnaphthalene        | 12.08 | 142 | 106258 | 18.82 | ng/ul  | 100    |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 35) 1-Methylnaphthalene        | 12.30 | 142  | 100496   | 18.72 | ng/ul  | 98       |
| 37) 1,2,4,5-Tetrachlorobenzene | 12.46 | 216  | 53992    | 20.19 | ng/ul  | 98       |
| 38) Hexachlorocyclopentadiene  | 12.43 | 237  | 15111    | 15.15 | ng/ul  | 100      |
| 39) 2,4,6-Trichlorophenol      | 12.72 | 196  | 32298    | 18.58 | ng/ul  | 99       |
| 40) 2,4,5-Trichlorophenol      | 12.79 | 196  | 36089    | 19.13 | ng/ul  | 96       |
| 41) 1,1'-Biphenyl              | 13.11 | 154  | 137965   | 19.96 | ng/ul  | 99       |
| 42) 2-Chloronaphthalene        | 13.15 | 162  | 104859   | 19.94 | ng/ul  | 99       |
| 43) 2-Nitroaniline             | 13.37 | 65   | 24167    | 18.23 | ng/ul  | 90       |
| 45) Dimethylphthalate          | 13.75 | 163  | 136966   | 19.04 | ng/ul  | 100      |
| 46) 2,6-Dinitrotoluene         | 13.87 | 165  | 27469    | 19.04 | ng/ul  | 98       |
| 48) Acenaphthylene             | 14.00 | 152  | 172045   | 19.58 | ng/ul  | 100      |
| 49) 3-Nitroaniline             | 14.21 | 138  | 27186    | 18.99 | ng/ul  | 94       |
| 50) Acenaphthene               | 14.35 | 153  | 116725   | 19.45 | ng/ul  | 99       |
| 51) 2,4-Dinitrophenol          | 14.43 | 184  | 8343     | 12.75 | ng/ul  | 93       |
| 53) 4-Nitrophenol              | 14.54 | 109  | 13137    | 15.85 | ng/ul  | 93       |
| 54) Dibenzofuran               | 14.69 | 168  | 164351   | 19.61 | ng/ul  | 97       |
| 55) 2,4-Dinitrotoluene         | 14.67 | 165  | 40612    | 18.85 | ng/ul  | 93       |
| 56) 2,3,4,6-Tetrachlorophenol  | 14.93 | 232  | 28048    | 17.95 | ng/ul  | 95       |
| 57) Diethylphthalate           | 15.12 | 149  | 139417   | 18.73 | ng/ul  | 99       |
| 59) Fluorene                   | 15.34 | 166  | 134146   | 19.31 | ng/ul  | 99       |
| 60) 4-Chlorophenyl-phenylether | 15.33 | 204  | 66145    | 19.41 | ng/ul  | 95       |
| 61) 4-Nitroaniline             | 15.38 | 138  | 27863    | 18.06 | ng/ul  | 90       |
| 64) 4,6-Dinitro-2-methylphenol | 15.44 | 198  | 20798    | 17.86 | ng/ul  | 92       |
| 65) N-Nitrosodiphenylamine     | 15.55 | 169  | 114732   | 20.38 | ng/ul  | 99       |
| 66) 4-Bromophenyl-phenylether  | 16.23 | 248  | 38703    | 20.19 | ng/ul  | 95       |
| 67) Hexachlorobenzene          | 16.35 | 284  | 42605    | 19.99 | ng/ul  | 95       |
| 68) Atrazine                   | 16.50 | 200  | 40513    | 19.40 | ng/ul  | 98       |
| 69) Pentachlorophenol          | 16.70 | 266  | 12326m   | 14.65 | ng/ul  |          |
| 70) Phenanthrene               | 17.08 | 178  | 208220   | 19.70 | ng/ul  | 99       |
| 72) Anthracene                 | 17.17 | 178  | 211282   | 19.68 | ng/ul  | 99       |
| 73) 1,2,3,4-Tetrachlorobenzene | 13.07 | 216  | 50593    | 21.58 | ng/uL  | 99       |
| 74) Pentachlorobenzene         | 14.61 | 250  | 50223    | 20.85 | ng/uL  | 100      |
| 75) Carbazole                  | 17.45 | 167  | 180524   | 19.29 | ng/ul  | 99       |
| 76) Di-n-butylphthalate        | 18.00 | 149  | 227860   | 17.54 | ng/ul  | 99       |
| 77) Fluoranthene               | 19.11 | 202  | 222619   | 18.59 | ng/ul  | 99       |
| 80) Pyrene                     | 19.47 | 202  | 231098   | 23.01 | ng/ul  | 99       |
| 81) Butylbenzylphthalate       | 20.38 | 149  | 86639    | 19.60 | ng/ul  | 96       |
| 82) 3,3'-Dichlorobenzidine     | 21.17 | 252  | 59134    | 19.10 | ng/ul  | 99       |
| 83) Benzo(a)anthracene         | 21.23 | 228  | 190284   | 19.25 | ng/ul  | 100      |
| 84) Bis(2-ethylhexyl)phthalate | 21.16 | 149  | 123254   | 18.86 | ng/ul  | 99       |
| 85) Chrysene                   | 21.29 | 228  | 186427   | 19.60 | ng/ul  | 99       |
| 87) Di-n-octyl phthalate       | 22.03 | 149  | 199665   | 18.03 | ng/ul# | 97       |
| 88) Benzo(b)fluoranthene       | 22.80 | 252  | 175773   | 19.33 | ng/ul  | 99       |
| 89) Benzo(k)fluoranthene       | 22.84 | 252  | 160795   | 18.76 | ng/ul  | 99       |
| 91) Benzo(a)pyrene             | 23.37 | 252  | 162870   | 19.27 | ng/ul  | 99       |
| 92) Indeno(1,2,3-cd)pyrene     | 25.70 | 276  | 181466   | 22.96 | ng/ul  | 100      |
| 93) Dibenzo(a,h)anthracene     | 25.71 | 278  | 152179   | 23.33 | ng/ul  | 100      |
| 94) Benzo(g,h,i)perylene       | 26.39 | 276  | 157513   | 24.23 | ng/ul  | 99       |

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| Internal Standards                                                         | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

