

Data Path : Z:\HPCHEM1\BNA\_M\Data\BM041817\  
 Data File : BM009662.D  
 Acq On : 18 Apr 2017 19:25  
 Operator : SJ/MA  
 Sample : SSTDCCC020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 SSTD02010

Manual Integrations  
 APPROVED

mohammad  
 4/19/2017 4:41:45 PM

Quant Time: Apr 19 05:56:46 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM041717.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Apr 19 05:34:35 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.83  | 152  | 120681   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.63 | 136  | 472956   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.47 | 164  | 274949   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.23 | 188  | 616398   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.41 | 240  | 790634   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.73 | 264  | 758471   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.32  | 96  | 22316  | 6.81  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.99  | 99  | 205673 | 18.70 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.17  | 67  | 151563 | 19.59 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.36  | 132 | 149798 | 19.60 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.53  | 113 | 152280 | 18.74 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.00  | 128 | 71541  | 19.62 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.72  | 143 | 75410  | 19.61 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.25 | 165 | 145158 | 19.03 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.77 | 131 | 175088 | 22.78 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.89 | 166 | 416790 | 18.80 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.17 | 160 | 543445 | 19.36 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.67 | 143 | 71455  | 17.95 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.47 | 176 | 363596 | 19.08 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.60 | 200 | 66654  | 16.97 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.33 | 188 | 571953 | 19.16 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.62 | 212 | 634583 | 18.64 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.58 | 264 | 661117 | 19.27 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       |        | Qvalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 2) 1,4-Dioxane                 | 3.35  | 88  | 27093m | 7.04  | ng/uL  |        |
| 4) Benzaldehyde                | 6.98  | 77  | 161329 | 23.73 | ng/ul  | 88     |
| 6) Phenol                      | 7.02  | 94  | 219725 | 18.50 | ng/ul# | 68     |
| 8) Bis(2-Chloroethyl)ether     | 7.26  | 93  | 175600 | 19.29 | ng/ul  | 84     |
| 10) 2-Chlorophenol             | 7.39  | 128 | 156246 | 19.56 | ng/ul# | 80     |
| 11) 2-Methylphenol             | 8.27  | 108 | 158816 | 19.11 | ng/ul  | 96     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.36  | 45  | 288069 | 19.37 | ng/ul  | 95     |
| 14) Acetophenone               | 8.66  | 105 | 261844 | 18.83 | ng/ul# | 78     |
| 15) N-Nitroso-di-n-propylamine | 8.64  | 70  | 164738 | 20.06 | ng/ul# | 80     |
| 16) 4-Methylphenol             | 8.60  | 108 | 172468 | 19.00 | ng/ul  | 97     |
| 17) Hexachloroethane           | 8.90  | 117 | 74870  | 19.37 | ng/ul  | 95     |
| 20) Nitrobenzene               | 9.04  | 77  | 234699 | 19.52 | ng/ul# | 86     |
| 21) Isophorone                 | 9.56  | 82  | 385883 | 19.63 | ng/ul# | 96     |
| 23) 2-Nitrophenol              | 9.75  | 139 | 81744  | 18.99 | ng/ul# | 60     |
| 24) 2,4-Dimethylphenol         | 9.80  | 107 | 201553 | 19.89 | ng/ul# | 82     |
| 25) Bis(2-Chloroethoxy)methane | 10.04 | 93  | 223551 | 18.91 | ng/ul  | 99     |
| 27) 2,4-Dichlorophenol         | 10.27 | 162 | 149545 | 19.52 | ng/ul# | 89     |
| 28) Naphthalene                | 10.68 | 128 | 481321 | 19.50 | ng/ul  | 98     |
| 30) 4-Chloroaniline            | 10.80 | 127 | 181590 | 22.66 | ng/ul  | 97     |
| 31) Hexachlorobutadiene        | 10.95 | 225 | 115894 | 20.27 | ng/ul  | 99     |
| 32) Caprolactam                | 11.57 | 113 | 45450  | 18.17 | ng/ul# | 74     |
| 33) 4-Chloro-3-methylphenol    | 11.91 | 107 | 170475 | 19.78 | ng/ul  | 99     |
| 34) 2-Methylnaphthalene        | 12.29 | 142 | 344895 | 19.76 | ng/ul  | 92     |

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Instrument :  
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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.66 | 216  | 200953   | 19.87 | ng/ul# | 94       |
| 37) Hexachlorocyclopentadiene  | 12.63 | 237  | 100097   | 18.18 | ng/ul  | 92       |
| 38) 2,4,6-Trichlorophenol      | 12.90 | 196  | 118318   | 18.29 | ng/ul  | 92       |
| 39) 2,4,5-Trichlorophenol      | 12.97 | 196  | 122583   | 18.75 | ng/ul  | 86       |
| 40) 1,1'-Biphenyl              | 13.30 | 154  | 438709   | 19.03 | ng/ul  | 94       |
| 41) 2-Chloronaphthalene        | 13.35 | 162  | 351305   | 19.30 | ng/ul  | 95       |
| 42) 2-Nitroaniline             | 13.56 | 65   | 130701   | 18.77 | ng/ul# | 79       |
| 44) Dimethylphthalate          | 13.93 | 163  | 422626   | 18.95 | ng/ul  | 97       |
| 45) 2,6-Dinitrotoluene         | 14.06 | 165  | 82071    | 18.43 | ng/ul# | 79       |
| 47) Acenaphthylene             | 14.20 | 152  | 539953   | 19.17 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.40 | 138  | 85906    | 19.53 | ng/ul# | 75       |
| 49) Acenaphthene               | 14.54 | 153  | 368262   | 19.43 | ng/ul  | 99       |
| 50) 2,4-Dinitrophenol          | 14.60 | 184  | 46035    | 16.68 | ng/ul# | 75       |
| 52) 4-Nitrophenol              | 14.69 | 109  | 84856    | 18.26 | ng/ul# | 61       |
| 53) Dibenzofuran               | 14.88 | 168  | 528995   | 19.40 | ng/ul  | 89       |
| 54) 2,4-Dinitrotoluene         | 14.85 | 165  | 125002   | 18.96 | ng/ul# | 69       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.10 | 232  | 115479   | 19.22 | ng/ul# | 94       |
| 56) Diethylphthalate           | 15.30 | 149  | 433084   | 19.00 | ng/ul  | 97       |
| 58) Fluorene                   | 15.53 | 166  | 429314   | 18.98 | ng/ul  | 98       |
| 59) 4-Chlorophenyl-phenylether | 15.52 | 204  | 225408   | 19.17 | ng/ul  | 96       |
| 60) 4-Nitroaniline             | 15.56 | 138  | 88340    | 18.34 | ng/ul# | 38       |
| 63) 4,6-Dinitro-2-methylphenol | 15.62 | 198  | 74543    | 18.03 | ng/ul# | 85       |
| 64) N-Nitrosodiphenylamine     | 15.74 | 169  | 366064   | 19.43 | ng/ul  | 98       |
| 65) 4-Bromophenyl-phenylether  | 16.42 | 248  | 138390   | 19.52 | ng/ul  | 90       |
| 66) Hexachlorobenzene          | 16.53 | 284  | 148391   | 19.08 | ng/ul  | 99       |
| 67) Atrazine                   | 16.69 | 200  | 138095   | 18.88 | ng/ul  | 96       |
| 68) Pentachlorophenol          | 16.87 | 266  | 83409    | 17.40 | ng/ul  | 89       |
| 69) Phenanthrene               | 17.27 | 178  | 667292   | 19.29 | ng/ul  | 98       |
| 71) Anthracene                 | 17.36 | 178  | 699429   | 19.43 | ng/ul  | 97       |
| 72) Carbazole                  | 17.63 | 167  | 592767   | 18.74 | ng/ul  | 97       |
| 73) Di-n-butylphthalate        | 18.18 | 149  | 730271   | 19.08 | ng/ul  | 96       |
| 74) Fluoranthene               | 19.29 | 202  | 790083   | 18.41 | ng/ul# | 91       |
| 77) Pyrene                     | 19.65 | 202  | 854606   | 19.03 | ng/ul# | 90       |
| 78) Butylbenzylphthalate       | 20.54 | 149  | 340214   | 18.35 | ng/ul  | 89       |
| 79) 3,3'-Dichlorobenzidine     | 21.33 | 252  | 307785   | 19.16 | ng/ul  | 99       |
| 80) Benzo(a)anthracene         | 21.39 | 228  | 886338   | 19.15 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.30 | 149  | 503444   | 18.36 | ng/ul  | 99       |
| 82) Chrysene                   | 21.44 | 228  | 805786   | 19.32 | ng/ul  | 98       |
| 84) Di-n-octyl phthalate       | 22.20 | 149  | 901265   | 17.86 | ng/ul# | 91       |
| 85) Benzo(b)fluoranthene       | 23.02 | 252  | 893012   | 19.13 | ng/ul# | 98       |
| 86) Benzo(k)fluoranthene       | 23.07 | 252  | 870389   | 19.58 | ng/ul# | 96       |
| 88) Benzo(a)pyrene             | 23.63 | 252  | 862981   | 19.19 | ng/ul# | 96       |
| 89) Indeno(1,2,3-cd)pyrene     | 26.08 | 276  | 1019129  | 19.39 | ng/ul# | 87       |
| 90) Dibenzo(a,h)anthracene     | 26.09 | 278  | 860011   | 19.35 | ng/ul# | 95       |
| 91) Benzo(g,h,i)perylene       | 26.81 | 276  | 832823   | 19.39 | ng/ul# | 93       |

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

