

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042817\  
 Data File : BM009803.D  
 Acq On : 29 Apr 2017 05:26  
 Operator : SJ/MA  
 Sample : SSTDC0020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02038

Manual Integrations  
 APPROVED

mohammad  
 5/1/2017 7:24:13 PM

Quant Time: Apr 29 06:38:09 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM042517.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Apr 29 00:28:27 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82  | 152  | 274434   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.62 | 136  | 1151688  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.47 | 164  | 667910   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.22 | 188  | 1379217  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.40 | 240  | 1119830  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.71 | 264  | 1070268  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.30  | 96  | 40845   | 6.85  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.99  | 99  | 542169  | 18.18 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.16  | 67  | 370655  | 18.23 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.36  | 132 | 372500  | 19.64 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.53  | 113 | 412690  | 17.76 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.99  | 128 | 187033  | 19.95 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.71  | 143 | 210662  | 21.36 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.25 | 165 | 396310  | 20.09 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.77 | 131 | 472497  | 19.88 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.88 | 166 | 1097402 | 18.89 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.16 | 160 | 1407660 | 20.09 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.69 | 143 | 169027  | 15.08 | ng/ul | 0.02 |
| 57) Fluorene-d10               | 15.46 | 176 | 962813  | 18.36 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.60 | 200 | 129424  | 13.30 | ng/ul | 0.01 |
| 70) Anthracene-d10             | 17.32 | 188 | 1355857 | 19.15 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.62 | 212 | 1187918 | 24.04 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.57 | 264 | 1004474 | 19.30 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |              | Ovalue |
|--------------------------------|-------|-----|---------|--------------|--------|
| 2) 1,4-Dioxane                 | 3.34  | 88  | 50315   | 6.85 ng/uL#  | 66     |
| 4) Benzaldehyde                | 6.97  | 77  | 359029  | 18.49 ng/ul# | 79     |
| 6) Phenol                      | 7.02  | 94  | 556840  | 18.07 ng/ul# | 63     |
| 8) Bis(2-Chloroethyl)ether     | 7.25  | 93  | 419395  | 18.12 ng/ul# | 81     |
| 10) 2-Chlorophenol             | 7.39  | 128 | 382701  | 19.71 ng/ul# | 75     |
| 11) 2-Methylphenol             | 8.27  | 108 | 397392  | 17.92 ng/ul  | 100    |
| 12) 2,2'-oxybis(1-Chloropropan | 8.35  | 45  | 682762  | 17.67 ng/ul# | 96     |
| 14) Acetophenone               | 8.65  | 105 | 661146  | 17.29 ng/ul# | 72     |
| 15) N-Nitroso-di-n-propylamine | 8.63  | 70  | 415619  | 17.51 ng/ul# | 82     |
| 16) 4-Methylphenol             | 8.60  | 108 | 438101  | 17.85 ng/ul  | 99     |
| 17) Hexachloroethane           | 8.89  | 117 | 172678  | 19.15 ng/ul  | 90     |
| 20) Nitrobenzene               | 9.03  | 77  | 576867  | 18.95 ng/ul# | 90     |
| 21) Isophorone                 | 9.56  | 82  | 986365  | 18.30 ng/ul# | 93     |
| 23) 2-Nitrophenol              | 9.74  | 139 | 223799  | 20.84 ng/ul# | 53     |
| 24) 2,4-Dimethylphenol         | 9.80  | 107 | 507981  | 19.02 ng/ul# | 85     |
| 25) Bis(2-Chloroethoxy)methane | 10.03 | 93  | 586133  | 18.76 ng/ul  | 97     |
| 27) 2,4-Dichlorophenol         | 10.27 | 162 | 379265  | 19.51 ng/ul# | 92     |
| 28) Naphthalene                | 10.67 | 128 | 1182693 | 19.28 ng/ul  | 98     |
| 30) 4-Chloroaniline            | 10.79 | 127 | 458839  | 19.33 ng/ul  | 96     |
| 31) Hexachlorobutadiene        | 10.93 | 225 | 267956  | 19.74 ng/ul  | 99     |
| 32) Caprolactam                | 11.59 | 113 | 122918m | 16.74 ng/ul  |        |
| 33) 4-Chloro-3-methylphenol    | 11.92 | 107 | 435017  | 17.96 ng/ul# | 92     |
| 34) 2-Methylnaphthalene        | 12.28 | 142 | 865904  | 18.36 ng/ul  | 100    |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.65 | 216  | 494640   | 21.84 | ng/ul# | 95       |
| 37) Hexachlorocyclopentadiene  | 12.62 | 237  | 165818   | 13.71 | ng/ul  | 97       |
| 38) 2,4,6-Trichlorophenol      | 12.90 | 196  | 324786   | 21.11 | ng/ul  | 96       |
| 39) 2,4,5-Trichlorophenol      | 12.97 | 196  | 330591   | 20.84 | ng/ul  | 95       |
| 40) 1,1'-Biphenyl              | 13.30 | 154  | 1116020  | 20.32 | ng/ul  | 94       |
| 41) 2-Chloronaphthalene        | 13.35 | 162  | 874767   | 20.71 | ng/ul  | 94       |
| 42) 2-Nitroaniline             | 13.56 | 65   | 350150   | 19.45 | ng/ul# | 75       |
| 44) Dimethylphthalate          | 13.93 | 163  | 1077985  | 18.75 | ng/ul# | 98       |
| 45) 2,6-Dinitrotoluene         | 14.06 | 165  | 226124   | 19.59 | ng/ul# | 69       |
| 47) Acenaphthylene             | 14.19 | 152  | 1363936  | 19.74 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.39 | 138  | 221929   | 19.47 | ng/ul# | 80       |
| 49) Acenaphthene               | 14.53 | 153  | 902117   | 19.20 | ng/ul  | 97       |
| 50) 2,4-Dinitrophenol          | 14.61 | 184  | 83828    | 10.89 | ng/ul# | 73       |
| 52) 4-Nitrophenol              | 14.71 | 109  | 192395   | 14.98 | ng/ul# | 65       |
| 53) Dibenzofuran               | 14.87 | 168  | 1295830  | 18.83 | ng/ul  | 91       |
| 54) 2,4-Dinitrotoluene         | 14.85 | 165  | 314871   | 18.10 | ng/ul# | 73       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.10 | 232  | 283673   | 18.44 | ng/ul# | 95       |
| 56) Diethylphthalate           | 15.29 | 149  | 1104527  | 17.62 | ng/ul  | 97       |
| 58) Fluorene                   | 15.52 | 166  | 1061770  | 18.07 | ng/ul  | 96       |
| 59) 4-Chlorophenyl-phenylether | 15.51 | 204  | 551922   | 18.13 | ng/ul  | 93       |
| 60) 4-Nitroaniline             | 15.56 | 138  | 211558   | 15.90 | ng/ul# | 34       |
| 63) 4,6-Dinitro-2-methylphenol | 15.62 | 198  | 131617   | 13.11 | ng/ul# | 81       |
| 64) N-Nitrosodiphenylamine     | 15.73 | 169  | 901350   | 21.30 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.41 | 248  | 338127   | 21.47 | ng/ul  | 89       |
| 66) Hexachlorobenzene          | 16.52 | 284  | 351553   | 20.39 | ng/ul  | 92       |
| 67) Atrazine                   | 16.69 | 200  | 320581   | 18.88 | ng/ul  | 93       |
| 68) Pentachlorophenol          | 16.87 | 266  | 169443   | 15.95 | ng/ul  | 87       |
| 69) Phenanthrene               | 17.26 | 178  | 1505860  | 18.99 | ng/ul  | 98       |
| 71) Anthracene                 | 17.36 | 178  | 1579427  | 19.04 | ng/ul  | 97       |
| 72) Carbazole                  | 17.63 | 167  | 1279418  | 17.14 | ng/ul  | 98       |
| 73) Di-n-butylphthalate        | 18.17 | 149  | 1771693  | 19.49 | ng/ul# | 97       |
| 74) Fluoranthene               | 19.28 | 202  | 1515325  | 15.16 | ng/ul# | 91       |
| 77) Pyrene                     | 19.64 | 202  | 1501095  | 23.73 | ng/ul# | 89       |
| 78) Butylbenzylphthalate       | 20.53 | 149  | 631987   | 24.10 | ng/ul  | 92       |
| 79) 3,3'-Dichlorobenzidine     | 21.32 | 252  | 298631   | 14.42 | ng/ul  | 99       |
| 80) Benzo(a)anthracene         | 21.39 | 228  | 1313592  | 19.78 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.29 | 149  | 896078   | 22.55 | ng/ul  | 96       |
| 82) Chrysene                   | 21.44 | 228  | 1165257  | 19.49 | ng/ul  | 98       |
| 84) Di-n-octyl phthalate       | 22.19 | 149  | 1416747  | 18.12 | ng/ul  | 98       |
| 85) Benzo(b)fluoranthene       | 23.02 | 252  | 1278110  | 18.39 | ng/ul# | 96       |
| 86) Benzo(k)fluoranthene       | 23.06 | 252  | 1222205  | 19.20 | ng/ul# | 96       |
| 88) Benzo(a)pyrene             | 23.62 | 252  | 1260856  | 19.50 | ng/ul# | 97       |
| 89) Indeno(1,2,3-cd)pyrene     | 26.07 | 276  | 1484730  | 21.21 | ng/ul# | 91       |
| 90) Dibenzo(a,h)anthracene     | 26.09 | 278  | 1252011  | 21.00 | ng/ul# | 94       |
| 91) Benzo(g,h,i)perylene       | 26.80 | 276  | 1245713  | 22.14 | ng/ul# | 92       |

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

