

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA M\DATA\BM111317\  
 Data File : BM012960.D  
 Acq On : 14 Nov 2017 06:14  
 Operator : SJ/JU  
 Sample : SSTDC0020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02025

Manual Integrations  
 APPROVED

SOHIL  
 11/14/2017 5:24:28 PM

Quant Time: Nov 14 08:17:41 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM110417MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Nov 14 04:22:37 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.78  | 152  | 92778    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.56 | 136  | 379401   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.42 | 164  | 234588   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.17 | 188  | 551256   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.35 | 240  | 594391   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.62 | 264  | 607019   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.28  | 96  | 14560  | 8.48  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.96  | 99  | 139950 | 20.27 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.12  | 67  | 77167  | 20.63 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.32  | 132 | 111030 | 19.31 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.49  | 113 | 118364 | 19.86 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.94  | 128 | 53791  | 19.19 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.66  | 143 | 62147  | 19.38 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.20 | 165 | 126396 | 19.22 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.71 | 131 | 145422 | 22.92 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.83 | 166 | 376769 | 19.41 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.11 | 160 | 467190 | 19.46 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.65 | 143 | 54265  | 17.45 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.42 | 176 | 319783 | 19.23 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.56 | 200 | 58759  | 16.14 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.26 | 188 | 501705 | 18.84 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.56 | 212 | 538063 | 19.51 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.48 | 264 | 544231 | 18.96 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |        | Ovalue    |
|--------------------------------|-------|-----|--------|--------|-----------|
| 2) 1,4-Dioxane                 | 3.31  | 88  | 14636  | 7.592  | ng/uL 93  |
| 4) Benzaldehyde                | 6.93  | 77  | 87659  | 23.875 | ng/ul 97  |
| 6) Phenol                      | 6.98  | 94  | 144995 | 20.461 | ng/ul 98  |
| 8) Bis(2-Chloroethyl)ether     | 7.20  | 93  | 113589 | 21.384 | ng/ul 96  |
| 10) 2-Chlorophenol             | 7.35  | 128 | 115972 | 19.577 | ng/ul 97  |
| 11) 2-Methylphenol             | 8.23  | 108 | 109229 | 20.256 | ng/ul 99  |
| 12) 2,2'-oxybis(1-Chloropropan | 8.31  | 45  | 69535  | 15.844 | ng/ul# 80 |
| 14) Acetophenone               | 8.60  | 105 | 181403 | 20.232 | ng/ul 96  |
| 15) N-Nitroso-di-n-propylamine | 8.59  | 70  | 90710  | 21.045 | ng/ul 92  |
| 16) 4-Methylphenol             | 8.55  | 108 | 121981 | 20.842 | ng/ul 98  |
| 17) Hexachloroethane           | 8.85  | 117 | 46853  | 19.649 | ng/ul# 82 |
| 20) Nitrobenzene               | 8.98  | 77  | 130460 | 19.773 | ng/ul 97  |
| 21) Isophorone                 | 9.50  | 82  | 241794 | 20.351 | ng/ul 100 |
| 23) 2-Nitrophenol              | 9.69  | 139 | 65906  | 19.083 | ng/ul 96  |
| 24) 2,4-Dimethylphenol         | 9.75  | 107 | 137526 | 19.579 | ng/ul 98  |
| 25) Bis(2-Chloroethoxy)methane | 9.98  | 93  | 153424 | 20.715 | ng/ul 98  |
| 27) 2,4-Dichlorophenol         | 10.22 | 162 | 122916 | 19.180 | ng/ul 98  |
| 28) Naphthalene                | 10.62 | 128 | 367835 | 19.392 | ng/ul 99  |
| 30) 4-Chloroaniline            | 10.73 | 127 | 146921 | 23.029 | ng/ul 100 |
| 31) Hexachlorobutadiene        | 10.89 | 225 | 88687  | 17.596 | ng/ul 99  |
| 32) Caprolactam                | 11.52 | 113 | 36517m | 20.261 | ng/ul     |
| 33) 4-Chloro-3-methylphenol    | 11.87 | 107 | 125408 | 20.125 | ng/ul 97  |
| 34) 2-Methylnaphthalene        | 12.23 | 142 | 280207 | 19.330 | ng/ul 99  |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.60 | 216  | 166572   | 18.342 | ng/ul# | 98       |
| 37) Hexachlorocyclopentadiene  | 12.57 | 237  | 14579    | 3.152  | ng/ul  | 98       |
| 38) 2,4,6-Trichlorophenol      | 12.85 | 196  | 105842   | 18.443 | ng/ul  | 99       |
| 39) 2,4,5-Trichlorophenol      | 12.93 | 196  | 109810   | 18.340 | ng/ul  | 98       |
| 40) 1,1'-Biphenyl              | 13.25 | 154  | 373699   | 19.259 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.29 | 162  | 295250   | 19.259 | ng/ul  | 93       |
| 42) 2-Nitroaniline             | 13.50 | 65   | 71741    | 19.806 | ng/ul  | 95       |
| 44) Dimethylphthalate          | 13.87 | 163  | 375871   | 19.512 | ng/ul  | 99       |
| 45) 2,6-Dinitrotoluene         | 14.00 | 165  | 75872    | 19.676 | ng/ul  | 99       |
| 47) Acenaphthylene             | 14.14 | 152  | 462474   | 19.869 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.33 | 138  | 70609    | 21.716 | ng/ul  | 95       |
| 49) Acenaphthene               | 14.48 | 153  | 304721   | 19.219 | ng/ul  | 98       |
| 50) 2,4-Dinitrophenol          | 14.56 | 184  | 29839    | 12.389 | ng/ul# | 86       |
| 52) 4-Nitrophenol              | 14.66 | 109  | 42801    | 15.595 | ng/ul  | 93       |
| 53) Dibenzofuran               | 14.82 | 168  | 454163   | 19.640 | ng/ul  | 90       |
| 54) 2,4-Dinitrotoluene         | 14.80 | 165  | 112868   | 19.903 | ng/ul  | 96       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.05 | 232  | 102135   | 18.376 | ng/ul# | 87       |
| 56) Diethylphthalate           | 15.24 | 149  | 361857   | 19.340 | ng/ul  | 98       |
| 58) Fluorene                   | 15.47 | 166  | 372784   | 19.406 | ng/ul  | 100      |
| 59) 4-Chlorophenyl-phenylether | 15.46 | 204  | 198412   | 18.589 | ng/ul# | 86       |
| 60) 4-Nitroaniline             | 15.50 | 138  | 76589    | 20.236 | ng/ul  | 98       |
| 63) 4,6-Dinitro-2-methylphenol | 15.57 | 198  | 61966    | 16.171 | ng/ul  | 93       |
| 64) N-Nitrosodiphenylamine     | 15.68 | 169  | 322990   | 19.406 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.36 | 248  | 133624   | 18.658 | ng/ul# | 84       |
| 66) Hexachlorobenzene          | 16.47 | 284  | 151617   | 18.749 | ng/ul# | 86       |
| 67) Atrazine                   | 16.63 | 200  | 125716   | 18.920 | ng/ul  | 98       |
| 68) Pentachlorophenol          | 16.83 | 266  | 71179    | 15.406 | ng/ul  | 100      |
| 69) Phenanthrene               | 17.21 | 178  | 582240   | 19.324 | ng/ul  | 99       |
| 71) Anthracene                 | 17.30 | 178  | 611441   | 19.572 | ng/ul  | 100      |
| 72) 1,2,3,4-Tetrachlorobenzene | 13.22 | 216  | 163039   | 18.094 | ng/ul  | 99       |
| 73) Pentachlorobenzene         | 14.74 | 250  | 169780   | 18.413 | ng/ul  | 100      |
| 74) Carbazole                  | 17.57 | 167  | 503619   | 19.328 | ng/ul  | 98       |
| 75) Di-n-butylphthalate        | 18.13 | 149  | 598511   | 19.604 | ng/ul  | 99       |
| 76) Fluoranthene               | 19.23 | 202  | 680199   | 18.786 | ng/ul# | 95       |
| 79) Pvrene                     | 19.59 | 202  | 704707   | 19.871 | ng/ul  | 94       |
| 80) Butylbenzylphthalate       | 20.49 | 149  | 255126   | 19.728 | ng/ul# | 95       |
| 81) 3,3'-Dichlorobenzidine     | 21.27 | 252  | 239990   | 18.255 | ng/ul# | 98       |
| 82) Benzo(a)anthracene         | 21.34 | 228  | 683824   | 19.012 | ng/ul  | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 21.26 | 149  | 376478   | 19.983 | ng/ul# | 96       |
| 84) Chrysene                   | 21.39 | 228  | 616169   | 18.903 | ng/ul  | 99       |
| 86) Di-n-octyl phthalate       | 22.14 | 149  | 629711   | 19.721 | ng/ul# | 96       |
| 87) Benzo(b)fluoranthene       | 22.94 | 252  | 709407   | 19.124 | ng/ul# | 97       |
| 88) Benzo(k)fluoranthene       | 22.99 | 252  | 664702   | 18.851 | ng/ul# | 96       |
| 90) Benzo(a)pyrene             | 23.53 | 252  | 675237   | 19.130 | ng/ul# | 96       |
| 91) Indeno(1,2,3-cd)pyrene     | 25.93 | 276  | 833807   | 19.600 | ng/ul# | 89       |
| 92) Dibenzo(a,h)anthracene     | 25.93 | 278  | 697944   | 19.380 | ng/ul# | 94       |
| 93) Benzo(g,h,i)perylene       | 26.64 | 276  | 686361   | 19.580 | ng/ul# | 91       |

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

