

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA M\DATA\BM121117\  
 Data File : BM013330.D  
 Acq On : 12 Dec 2017 06:41  
 Operator : SJ/JU  
 Sample : SSTDC0020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02028

Manual Integrations  
 APPROVED

Sohil  
 12/12/2017 3:57:36 PM

Quant Time: Dec 12 10:55:09 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Dec 12 02:07:09 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.69  | 152  | 213574   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.47 | 136  | 940573   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.33 | 164  | 579473   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.08 | 188  | 1348728  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.27 | 240  | 1202612  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.49 | 264  | 977429   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.23  | 96  | 28635   | 6.64  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.87  | 99  | 363662  | 19.68 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.03  | 67  | 204207  | 19.38 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.22  | 132 | 292883  | 20.28 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.40  | 113 | 306943  | 19.44 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.84  | 128 | 152147  | 20.40 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.56  | 143 | 172886  | 21.65 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.09 | 165 | 332092  | 20.19 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.61 | 131 | 373741  | 24.72 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.75 | 166 | 1008352 | 19.55 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.02 | 160 | 1255295 | 19.73 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.54 | 143 | 174632  | 19.49 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.33 | 176 | 847254  | 19.11 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.46 | 200 | 156280  | 18.42 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.17 | 188 | 1320814 | 19.55 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.47 | 212 | 1348576 | 22.51 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.35 | 264 | 976014  | 19.60 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |        | Ovalue    |
|--------------------------------|-------|-----|---------|--------|-----------|
| 2) 1,4-Dioxane                 | 3.27  | 88  | 31708   | 6.550  | ng/uL# 62 |
| 4) Benzaldehyde                | 6.84  | 77  | 189397  | 20.714 | ng/ul 90  |
| 6) Phenol                      | 6.89  | 94  | 360023  | 19.709 | ng/ul# 84 |
| 8) Bis(2-Chloroethyl)ether     | 7.12  | 93  | 268706  | 19.239 | ng/ul 99  |
| 10) 2-Chlorophenol             | 7.26  | 128 | 291148  | 20.563 | ng/ul 94  |
| 11) 2-Methylphenol             | 8.13  | 108 | 277189  | 19.620 | ng/ul 100 |
| 12) 2,2'-oxybis(1-Chloropropan | 8.21  | 45  | 290266  | 19.793 | ng/ul# 83 |
| 14) Acetophenone               | 8.51  | 105 | 465360  | 19.384 | ng/ul 87  |
| 15) N-Nitroso-di-n-propylamine | 8.49  | 70  | 235492  | 19.474 | ng/ul# 69 |
| 16) 4-Methylphenol             | 8.46  | 108 | 305277  | 20.206 | ng/ul 98  |
| 17) Hexachloroethane           | 8.76  | 117 | 118732  | 19.261 | ng/ul# 82 |
| 20) Nitrobenzene               | 8.88  | 77  | 347646  | 18.502 | ng/ul 92  |
| 21) Isophorone                 | 9.40  | 82  | 644991  | 19.508 | ng/ul# 94 |
| 23) 2-Nitrophenol              | 9.59  | 139 | 174531  | 21.088 | ng/ul# 78 |
| 24) 2,4-Dimethylphenol         | 9.66  | 107 | 357923  | 19.829 | ng/ul 90  |
| 25) Bis(2-Chloroethoxy)methane | 9.89  | 93  | 382224  | 19.753 | ng/ul 96  |
| 27) 2,4-Dichlorophenol         | 10.12 | 162 | 313771  | 20.649 | ng/ul 91  |
| 28) Naphthalene                | 10.52 | 128 | 935462  | 19.331 | ng/ul 100 |
| 30) 4-Chloroaniline            | 10.63 | 127 | 361185  | 24.675 | ng/ul 92  |
| 31) Hexachlorobutadiene        | 10.80 | 225 | 205397  | 18.661 | ng/ul 94  |
| 32) Caprolactam                | 11.41 | 113 | 100757m | 20.747 | ng/ul     |
| 33) 4-Chloro-3-methylphenol    | 11.76 | 107 | 332122  | 19.924 | ng/ul 97  |
| 34) 2-Methylnaphthalene        | 12.13 | 142 | 701009  | 19.271 | ng/ul 95  |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.50 | 216  | 396066   | 18.942 | ng/ul  | 98       |
| 37) Hexachlorocyclopentadiene  | 12.48 | 237  | 153612   | 11.162 | ng/ul  | 99       |
| 38) 2,4,6-Trichlorophenol      | 12.75 | 196  | 263526   | 20.216 | ng/ul  | 97       |
| 39) 2,4,5-Trichlorophenol      | 12.83 | 196  | 284042   | 20.513 | ng/ul  | 97       |
| 40) 1,1'-Biphenyl              | 13.16 | 154  | 950587   | 19.410 | ng/ul  | 98       |
| 41) 2-Chloronaphthalene        | 13.20 | 162  | 751489   | 19.559 | ng/ul  | 98       |
| 42) 2-Nitroaniline             | 13.41 | 65   | 225650   | 20.045 | ng/ul# | 85       |
| 44) Dimethylphthalate          | 13.79 | 163  | 958318   | 19.431 | ng/ul  | 100      |
| 45) 2,6-Dinitrotoluene         | 13.92 | 165  | 206826   | 20.562 | ng/ul  | 90       |
| 47) Acenaphthylene             | 14.05 | 152  | 1151649  | 19.557 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.24 | 138  | 202000   | 22.467 | ng/ul  | 85       |
| 49) Acenaphthene               | 14.39 | 153  | 773084   | 19.272 | ng/ul  | 96       |
| 50) 2,4-Dinitrophenol          | 14.45 | 184  | 95562    | 17.168 | ng/ul  | 91       |
| 52) 4-Nitrophenol              | 14.56 | 109  | 162850   | 18.528 | ng/ul# | 79       |
| 53) Dibenzofuran               | 14.73 | 168  | 1124117  | 18.982 | ng/ul  | 97       |
| 54) 2,4-Dinitrotoluene         | 14.70 | 165  | 296907   | 20.291 | ng/ul# | 87       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.96 | 232  | 261126   | 20.568 | ng/ul  | 93       |
| 56) Diethylphthalate           | 15.16 | 149  | 956572   | 19.338 | ng/ul  | 95       |
| 58) Fluorene                   | 15.38 | 166  | 931149   | 19.006 | ng/ul  | 98       |
| 59) 4-Chlorophenyl-phenylether | 15.38 | 204  | 484739   | 18.230 | ng/ul  | 94       |
| 60) 4-Nitroaniline             | 15.41 | 138  | 211324   | 19.921 | ng/ul  | 94       |
| 63) 4,6-Dinitro-2-methylphenol | 15.47 | 198  | 160794   | 18.964 | ng/ul  | 97       |
| 64) N-Nitrosodiphenylamine     | 15.60 | 169  | 805117   | 20.265 | ng/ul  | 96       |
| 65) 4-Bromophenyl-phenylether  | 16.27 | 248  | 317797   | 20.044 | ng/ul  | 94       |
| 66) Hexachlorobenzene          | 16.39 | 284  | 336927   | 19.270 | ng/ul# | 93       |
| 67) Atrazine                   | 16.55 | 200  | 310426   | 21.168 | ng/ul  | 92       |
| 68) Pentachlorophenol          | 16.73 | 266  | 200103   | 19.787 | ng/ul  | 98       |
| 69) Phenanthrene               | 17.12 | 178  | 1490081  | 19.447 | ng/ul  | 100      |
| 71) Anthracene                 | 17.21 | 178  | 1528028  | 19.510 | ng/ul  | 99       |
| 72) Carbazole                  | 17.49 | 167  | 1298179  | 19.270 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.05 | 149  | 1591076  | 20.231 | ng/ul  | 98       |
| 74) Fluoranthene               | 19.14 | 202  | 1654007  | 17.614 | ng/ul# | 92       |
| 77) Pyrene                     | 19.50 | 202  | 1660162  | 22.723 | ng/ul# | 94       |
| 78) Butylbenzylphthalate       | 20.41 | 149  | 676074   | 23.683 | ng/ul# | 96       |
| 79) 3,3'-Dichlorobenzidine     | 21.19 | 252  | 483993   | 19.145 | ng/ul# | 98       |
| 80) Benzo(a)anthracene         | 21.25 | 228  | 1503659  | 19.706 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.19 | 149  | 934070   | 21.708 | ng/ul  | 99       |
| 82) Chrysene                   | 21.30 | 228  | 1369567  | 19.347 | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 22.07 | 149  | 1508669  | 21.706 | ng/ul  | 99       |
| 85) Benzo(b)fluoranthene       | 22.83 | 252  | 1310238  | 19.885 | ng/ul# | 98       |
| 86) Benzo(k)fluoranthene       | 22.87 | 252  | 1196985  | 19.304 | ng/ul# | 98       |
| 88) Benzo(a)pyrene             | 23.40 | 252  | 1158569  | 19.574 | ng/ul# | 98       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.73 | 276  | 1194122  | 20.333 | ng/ul# | 94       |
| 90) Dibenzo(a,h)anthracene     | 25.74 | 278  | 1021406  | 20.425 | ng/ul# | 96       |
| 91) Benzo(g,h,i)perylene       | 26.41 | 276  | 952456   | 20.561 | ng/ul# | 96       |

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

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