

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM072319\  
 Data File : BM021609.D  
 Acq On : 23 Jul 2019 11:13  
 Operator : HP/JU  
 Sample : SSTD04032  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 SSTD04032

Manual Integrations  
 APPROVED

mohammad  
 7/24/2019 8:27:10 AM

Quant Time: Jul 23 12:40:32 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM072319MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jul 23 11:52:52 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.70  | 152  | 118177   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.49 | 136  | 541702   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.35 | 164  | 366944   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.10 | 188  | 949070   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.29 | 240  | 1154852  | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.54 | 264  | 1345354  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.25  | 96  | 34385   | 14.33 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.88  | 99  | 419440  | 45.65 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.05  | 67  | 247464  | 45.42 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.24  | 132 | 341984  | 43.24 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.42  | 113 | 356571  | 48.72 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.87  | 128 | 179209  | 40.16 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.58  | 143 | 197436  | 39.13 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.11 | 165 | 423166  | 42.05 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.64 | 131 | 445044  | 48.91 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.77 | 166 | 1369811 | 42.62 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.04 | 160 | 1666422 | 41.30 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.57 | 143 | 241830  | 47.49 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.35 | 176 | 1232345 | 42.96 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.49 | 200 | 257152  | 40.31 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.20 | 188 | 2028688 | 41.15 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.50 | 212 | 2443465 | 38.55 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.40 | 264 | 3258728 | 42.12 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |        | Ovalue    |
|--------------------------------|-------|-----|---------|--------|-----------|
| 2) 1,4-Dioxane                 | 3.28  | 88  | 36721   | 14.563 | ng/uL 92  |
| 4) Benzaldehyde                | 6.86  | 77  | 214636  | 43.266 | ng/ul 96  |
| 6) Phenol                      | 6.90  | 94  | 396009  | 45.026 | ng/ul 99  |
| 8) Bis(2-Chloroethyl)ether     | 7.15  | 93  | 295946  | 43.520 | ng/ul 98  |
| 10) 2-Chlorophenol             | 7.27  | 128 | 320166  | 42.122 | ng/ul 97  |
| 11) 2-Methylphenol             | 8.15  | 108 | 314175  | 46.879 | ng/ul 98  |
| 12) 2,2'-oxybis(1-Chloropropan | 8.23  | 45  | 392377  | 47.320 | ng/ul 98  |
| 14) Acetophenone               | 8.53  | 105 | 533745  | 48.416 | ng/ul 99  |
| 15) N-Nitroso-di-n-propylamine | 8.52  | 70  | 271796  | 49.168 | ng/ul 97  |
| 16) 4-Methylphenol             | 8.48  | 108 | 348654  | 49.068 | ng/ul 94  |
| 17) Hexachloroethane           | 8.76  | 117 | 137046  | 41.233 | ng/ul 99  |
| 20) Nitrobenzene               | 8.91  | 77  | 414011  | 41.424 | ng/ul 100 |
| 21) Isophorone                 | 9.43  | 82  | 791151  | 44.661 | ng/ul 100 |
| 23) 2-Nitrophenol              | 9.62  | 139 | 201022  | 40.007 | ng/ul 93  |
| 24) 2,4-Dimethylphenol         | 9.67  | 107 | 415542  | 42.506 | ng/ul 98  |
| 25) Bis(2-Chloroethoxy)methane | 9.91  | 93  | 463218  | 41.922 | ng/ul 99  |
| 27) 2,4-Dichlorophenol         | 10.14 | 162 | 382507  | 41.554 | ng/ul 99  |
| 28) Naphthalene                | 10.53 | 128 | 1119078 | 39.696 | ng/ul 100 |
| 30) 4-Chloroaniline            | 10.66 | 127 | 427602  | 49.170 | ng/ul 98  |
| 31) Hexachlorobutadiene        | 10.80 | 225 | 257189  | 37.806 | ng/ul 99  |
| 32) Caprolactam                | 11.47 | 113 | 114130m | 47.510 | ng/ul     |
| 33) 4-Chloro-3-methylphenol    | 11.79 | 107 | 408826  | 47.714 | ng/ul 99  |
| 34) 2-Methylnaphthalene        | 12.15 | 142 | 873723  | 42.045 | ng/ul 98  |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.52 | 216  | 532162   | 37.290 | ng/ul  | 97       |
| 37) Hexachlorocyclopentadiene  | 12.49 | 237  | 254694   | 35.083 | ng/ul  | 100      |
| 38) 2,4,6-Trichlorophenol      | 12.77 | 196  | 342929   | 40.378 | ng/ul  | 98       |
| 39) 2,4,5-Trichlorophenol      | 12.85 | 196  | 367955   | 40.876 | ng/ul  | 99       |
| 40) 1,1'-Biphenyl              | 13.17 | 154  | 1184704  | 38.575 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.22 | 162  | 945913   | 38.432 | ng/ul  | 99       |
| 42) 2-Nitroaniline             | 13.45 | 65   | 247947   | 46.103 | ng/ul  | 95       |
| 44) Dimethylphthalate          | 13.82 | 163  | 1255063  | 41.939 | ng/ul  | 99       |
| 45) 2,6-Dinitrotoluene         | 13.95 | 165  | 245731   | 45.093 | ng/ul  | 95       |
| 47) Acenaphthylene             | 14.07 | 152  | 1427828  | 40.672 | ng/ul  | 100      |
| 48) 3-Nitroaniline             | 14.28 | 138  | 228907   | 46.696 | ng/ul  | 99       |
| 49) Acenaphthene               | 14.42 | 153  | 1025973  | 40.220 | ng/ul  | 98       |
| 50) 2,4-Dinitrophenol          | 14.49 | 184  | 133955   | 40.874 | ng/ul  | 98       |
| 52) 4-Nitrophenol              | 14.59 | 109  | 190355   | 50.179 | ng/ul  | 96       |
| 53) Dibenzofuran               | 14.75 | 168  | 1506824  | 40.777 | ng/ul  | 99       |
| 54) 2,4-Dinitrotoluene         | 14.74 | 165  | 394168   | 47.160 | ng/ul  | 95       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.98 | 232  | 355595   | 44.324 | ng/ul  | 98       |
| 56) Diethylphthalate           | 15.18 | 149  | 1251711  | 43.566 | ng/ul  | 99       |
| 58) Fluorene                   | 15.40 | 166  | 1253946  | 41.944 | ng/ul  | 99       |
| 59) 4-Chlorophenyl-phenylether | 15.40 | 204  | 692884   | 41.471 | ng/ul  | 99       |
| 60) 4-Nitroaniline             | 15.45 | 138  | 248332   | 49.337 | ng/ul  | 93       |
| 63) 4,6-Dinitro-2-methylphenol | 15.50 | 198  | 251805   | 39.673 | ng/ul# | 97       |
| 64) N-Nitrosodiphenylamine     | 15.62 | 169  | 1089593  | 38.593 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.29 | 248  | 452050   | 38.497 | ng/ul  | 99       |
| 66) Hexachlorobenzene          | 16.40 | 284  | 537299   | 38.487 | ng/ul  | 99       |
| 67) Atrazine                   | 16.58 | 200  | 412164   | 39.516 | ng/ul  | 99       |
| 68) Pentachlorophenol          | 16.75 | 266  | 311713   | 42.358 | ng/ul  | 98       |
| 69) Phenanthrene               | 17.14 | 178  | 2137700  | 39.946 | ng/ul  | 99       |
| 71) Anthracene                 | 17.23 | 178  | 2190291  | 40.213 | ng/ul  | 99       |
| 72) 1,2,3,4-Tetrachlorobenzene | 13.13 | 216  | 535145   | 34.397 | ng/uL  | 99       |
| 73) Pentachlorobenzene         | 14.66 | 250  | 577152   | 36.011 | ng/uL  | 98       |
| 74) Carbazole                  | 17.52 | 167  | 1906941  | 42.181 | ng/ul  | 99       |
| 75) Di-n-butylphthalate        | 18.07 | 149  | 2158262  | 41.670 | ng/ul  | 100      |
| 76) Fluoranthene               | 19.16 | 202  | 2766202  | 43.532 | ng/ul  | 99       |
| 79) Pvrene                     | 19.53 | 202  | 2854876  | 37.353 | ng/ul  | 99       |
| 80) Butylbenzylphthalate       | 20.43 | 149  | 1017897  | 37.597 | ng/ul  | 99       |
| 81) 3,3'-Dichlorobenzidine     | 21.22 | 252  | 1021233  | 39.772 | ng/ul  | 98       |
| 82) Benzo(a)anthracene         | 21.28 | 228  | 3168466  | 40.063 | ng/ul  | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 21.20 | 149  | 1505150  | 37.795 | ng/ul  | 100      |
| 84) Chrysene                   | 21.33 | 228  | 2986614  | 40.170 | ng/ul  | 99       |
| 86) Di-n-octyl phthalate       | 22.09 | 149  | 2699737  | 37.147 | ng/ul  | 100      |
| 87) Benzo(b)fluoranthene       | 22.87 | 252  | 3433252  | 40.951 | ng/ul  | 99       |
| 88) Benzo(k)fluoranthene       | 22.92 | 252  | 3353181  | 40.154 | ng/ul  | 99       |
| 90) Benzo(a)pyrene             | 23.45 | 252  | 3319366  | 40.991 | ng/ul  | 99       |
| 91) Indeno(1,2,3-cd)pyrene     | 25.81 | 276  | 4133278  | 41.321 | ng/ul  | 100      |
| 92) Dibenzo(a,h)anthracene     | 25.82 | 278  | 3500337  | 41.626 | ng/ul  | 99       |
| 93) Benzo(g,h,i)perylene       | 26.50 | 276  | 3337549  | 40.442 | ng/ul  | 98       |

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

