

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051617\  
 Data File : BG026999.D  
 Acq On : 17 May 2017 4:46  
 Operator : SJ/MA  
 Sample : SSTDC0020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 SSTD02092

Manual Integrations  
 APPROVED

mohammad  
 5/17/2017 5:44:51 PM

Quant Time: May 17 06:41:14 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG042717.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 17 05:12:59 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.01  | 152  | 165678   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.80 | 136  | 793401   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.61 | 164  | 434292   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.35 | 188  | 828113   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.59 | 240  | 751709   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 24.76 | 264  | 745083   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.42  | 96  | 28291  | 7.69  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.18  | 99  | 333510 | 22.56 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.32  | 67  | 184199 | 21.18 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.54  | 132 | 267411 | 21.31 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.72  | 113 | 270384 | 22.03 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.16  | 128 | 133911 | 20.19 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.89  | 143 | 154121 | 21.37 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.43 | 165 | 250892 | 21.89 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.94 | 131 | 338526 | 22.07 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.02 | 166 | 693463 | 19.84 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.31 | 160 | 924727 | 21.06 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.83 | 143 | 100602 | 15.97 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.60 | 176 | 607506 | 19.91 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.73 | 200 | 85063  | 16.92 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.45 | 188 | 823539 | 20.49 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.73 | 212 | 782922 | 19.73 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 24.54 | 264 | 753087 | 21.38 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |       |        | Ovalue |
|--------------------------------|-------|-----|---------|-------|--------|--------|
| 2) 1,4-Dioxane                 | 3.46  | 88  | 32744   | 7.80  | ng/uL# | 84     |
| 4) Benzaldehyde                | 7.14  | 77  | 151589  | 21.21 | ng/ul# | 69     |
| 6) Phenol                      | 7.21  | 94  | 344818  | 23.01 | ng/ul# | 73     |
| 8) Bis(2-Chloroethyl)ether     | 7.42  | 93  | 239163  | 20.67 | ng/ul  | 93     |
| 10) 2-Chlorophenol             | 7.58  | 128 | 259906  | 21.04 | ng/ul# | 79     |
| 11) 2-Methylphenol             | 8.45  | 108 | 261076  | 22.01 | ng/ul  | 94     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.53  | 45  | 273072  | 22.62 | ng/ul# | 87     |
| 14) Acetophenone               | 8.82  | 105 | 383491  | 21.28 | ng/ul# | 72     |
| 15) N-Nitroso-di-n-propylamine | 8.80  | 70  | 182305  | 20.50 | ng/ul# | 70     |
| 16) 4-Methylphenol             | 8.78  | 108 | 291401  | 22.46 | ng/ul  | 98     |
| 17) Hexachloroethane           | 9.08  | 117 | 93035   | 20.03 | ng/ul# | 68     |
| 20) Nitrobenzene               | 9.20  | 77  | 270264  | 21.12 | ng/ul# | 76     |
| 21) Isophorone                 | 9.72  | 82  | 501157  | 20.40 | ng/ul# | 91     |
| 23) 2-Nitrophenol              | 9.91  | 139 | 160884m | 21.22 | ng/ul  |        |
| 24) 2,4-Dimethylphenol         | 9.98  | 107 | 293241  | 21.21 | ng/ul# | 79     |
| 25) Bis(2-Chloroethoxy)methane | 10.20 | 93  | 339976  | 20.26 | ng/ul# | 91     |
| 27) 2,4-Dichlorophenol         | 10.46 | 162 | 245875  | 21.51 | ng/ul  | 94     |
| 28) Naphthalene                | 10.85 | 128 | 853064  | 20.65 | ng/ul  | 99     |
| 30) 4-Chloroaniline            | 10.96 | 127 | 311246  | 21.51 | ng/ul  | 93     |
| 31) Hexachlorobutadiene        | 11.14 | 225 | 115925  | 20.05 | ng/ul  | 91     |
| 32) Caprolactam                | 11.71 | 113 | 89770   | 21.02 | ng/ul# | 60     |
| 33) 4-Chloro-3-methylphenol    | 12.09 | 107 | 283326  | 22.86 | ng/ul# | 83     |
| 34) 2-Methylnaphthalene        | 12.45 | 142 | 625232  | 20.40 | ng/ul  | 94     |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.82 | 216  | 238791   | 20.85 | ng/ul  | 97       |
| 37) Hexachlorocyclopentadiene  | 12.80 | 237  | 29933    | 5.93  | ng/ul# | 97       |
| 38) 2,4,6-Trichlorophenol      | 13.06 | 196  | 169353   | 21.50 | ng/ul  | 97       |
| 39) 2,4,5-Trichlorophenol      | 13.15 | 196  | 170270   | 20.91 | ng/ul  | 95       |
| 40) 1,1'-Biphenyl              | 13.45 | 154  | 755680   | 20.70 | ng/ul  | 97       |
| 41) 2-Chloronaphthalene        | 13.50 | 162  | 575933   | 20.99 | ng/ul  | 97       |
| 42) 2-Nitroaniline             | 13.70 | 65   | 177775   | 22.67 | ng/ul# | 74       |
| 44) Dimethylphthalate          | 14.06 | 163  | 689542   | 20.15 | ng/ul  | 98       |
| 45) 2,6-Dinitrotoluene         | 14.19 | 165  | 150728   | 20.87 | ng/ul# | 81       |
| 47) Acenaphthylene             | 14.34 | 152  | 932189   | 20.84 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.52 | 138  | 167341   | 22.02 | ng/ul# | 75       |
| 49) Acenaphthene               | 14.68 | 153  | 637808   | 20.50 | ng/ul  | 97       |
| 50) 2,4-Dinitrophenol          | 14.74 | 184  | 42531    | 11.52 | ng/ul# | 79       |
| 52) 4-Nitrophenol              | 14.85 | 109  | 60909    | 16.48 | ng/ul# | 31       |
| 53) Dibenzofuran               | 15.01 | 168  | 841003   | 20.31 | ng/ul  | 96       |
| 54) 2,4-Dinitrotoluene         | 14.98 | 165  | 208026   | 20.13 | ng/ul# | 78       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.24 | 232  | 122584   | 19.16 | ng/ul# | 78       |
| 56) Diethylphthalate           | 15.42 | 149  | 725221   | 20.25 | ng/ul  | 99       |
| 58) Fluorene                   | 15.66 | 166  | 679342   | 20.10 | ng/ul  | 99       |
| 59) 4-Chlorophenyl-phenylether | 15.64 | 204  | 295604   | 20.06 | ng/ul  | 94       |
| 60) 4-Nitroaniline             | 15.68 | 138  | 164137   | 19.59 | ng/ul# | 49       |
| 63) 4,6-Dinitro-2-methylphenol | 15.75 | 198  | 89894    | 17.16 | ng/ul# | 89       |
| 64) N-Nitrosodiphenylamine     | 15.86 | 169  | 570988   | 20.98 | ng/ul  | 97       |
| 65) 4-Bromophenyl-phenylether  | 16.54 | 248  | 170378   | 20.62 | ng/ul# | 79       |
| 66) Hexachlorobenzene          | 16.67 | 284  | 179819   | 20.21 | ng/ul# | 85       |
| 67) Atrazine                   | 16.80 | 200  | 175793   | 20.67 | ng/ul# | 91       |
| 68) Pentachlorophenol          | 17.01 | 266  | 71980    | 17.71 | ng/ul  | 91       |
| 69) Phenanthrene               | 17.39 | 178  | 937441   | 20.09 | ng/ul  | 98       |
| 71) Anthracene                 | 17.48 | 178  | 984577   | 20.57 | ng/ul  | 99       |
| 72) Carbazole                  | 17.75 | 167  | 904430   | 22.35 | ng/ul  | 98       |
| 73) Di-n-butylphthalate        | 18.30 | 149  | 1147561  | 21.80 | ng/ul# | 97       |
| 74) Fluoranthene               | 19.40 | 202  | 978016   | 22.58 | ng/ul# | 78       |
| 77) Pyrene                     | 19.76 | 202  | 1004916  | 19.93 | ng/ul# | 78       |
| 78) Butylbenzylphthalate       | 20.63 | 149  | 524378   | 22.39 | ng/ul# | 85       |
| 79) 3,3'-Dichlorobenzidine     | 21.49 | 252  | 317041   | 21.94 | ng/ul# | 95       |
| 80) Benzo(a)anthracene         | 21.58 | 228  | 903150   | 20.54 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.47 | 149  | 753474   | 22.54 | ng/ul# | 98       |
| 82) Chrysene                   | 21.64 | 228  | 826397   | 20.23 | ng/ul  | 97       |
| 84) Di-n-octyl phthalate       | 22.65 | 149  | 1299123  | 25.37 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 23.76 | 252  | 897998   | 21.09 | ng/ul# | 92       |
| 86) Benzo(k)fluoranthene       | 23.82 | 252  | 901854   | 21.56 | ng/ul# | 90       |
| 88) Benzo(a)pyrene             | 24.60 | 252  | 891085   | 21.27 | ng/ul# | 92       |
| 89) Indeno(1,2,3-cd)pyrene     | 28.37 | 276  | 860631m  | 17.33 | ng/ul  |          |
| 90) Dibenzo(a,h)anthracene     | 28.41 | 278  | 737138   | 17.50 | ng/ul# | 87       |
| 91) Benzo(g,h,i)perylene       | 29.49 | 276  | 609471   | 14.79 | ng/ul# | 80       |

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

