

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG032717\  
 Data File : BG026435.D  
 Acq On : 27 Mar 2017 15:55  
 Operator : SJ/MA  
 Sample : SSTD08005  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD08005

Manual Integrations  
 APPROVED

mohammad  
 3/28/2017 2:44:24 PM

Quant Time: Mar 27 17:01:25 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG032717MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Mar 27 15:45:10 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.04  | 152  | 165618   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.85 | 136  | 690147   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.65 | 164  | 398046   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.38 | 188  | 936889   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.63 | 240  | 1015449  | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 24.81 | 264  | 1031571  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |          |        |       |      |
|--------------------------------|-------|-----|----------|--------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.47  | 96  | 110061   | 28.57  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.21  | 99  | 1004094  | 81.54  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.37  | 67  | 555751   | 71.51  | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.58  | 132 | 893492   | 89.84  | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.75  | 113 | 816123   | 84.82  | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.21  | 128 | 424760   | 85.19  | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.93  | 143 | 512244   | 124.82 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.47 | 165 | 884232   | 96.58  | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.97 | 131 | 941608   | 75.33  | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.06 | 166 | 2386283  | 92.16  | ng/ul | 0.01 |
| 46) Acenaphthylene-d8          | 14.35 | 160 | 2908545  | 83.69  | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.86 | 143 | 520524   | 102.09 | ng/ul | 0.01 |
| 57) Fluorene-d10               | 15.64 | 176 | 2120711  | 83.07  | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.76 | 200 | 525460   | 119.53 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.48 | 188 | 3136044m | 73.76  | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.76 | 212 | 3331733  | 79.76  | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 24.60 | 264 | 3548298  | 78.03  | ng/ul | 0.01 |

## Target Compounds

|                                |       |     |         |        |        | Qvalue |
|--------------------------------|-------|-----|---------|--------|--------|--------|
| 2) 1,4-Dioxane                 | 3.51  | 88  | 116983  | 27.27  | ng/uL# | 86     |
| 4) Benzaldehyde                | 7.18  | 77  | 558179  | 71.11  | ng/ul  | 90     |
| 6) Phenol                      | 7.24  | 94  | 1041581 | 81.66  | ng/ul  | 92     |
| 8) Bis(2-Chloroethyl)ether     | 7.46  | 93  | 781373  | 75.48  | ng/ul  | 94     |
| 10) 2-Chlorophenol             | 7.61  | 128 | 858835  | 88.25  | ng/ul  | 96     |
| 11) 2-Methylphenol             | 8.49  | 108 | 828293  | 85.23  | ng/ul  | 99     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.58  | 45  | 739796  | 61.33  | ng/ul  | 100    |
| 14) Acetophenone               | 8.87  | 105 | 1193371 | 75.63  | ng/ul  | 95     |
| 15) N-Nitroso-di-n-propylamine | 8.86  | 70  | 548279  | 73.68  | ng/ul# | 92     |
| 16) 4-Methylphenol             | 8.82  | 108 | 877419  | 83.25  | ng/ul  | 98     |
| 17) Hexachloroethane           | 9.13  | 117 | 317307  | 78.62  | ng/ul  | 88     |
| 20) Nitrobenzene               | 9.25  | 77  | 796844  | 75.45  | ng/ul  | 90     |
| 21) Isophorone                 | 9.78  | 82  | 1517965 | 76.12  | ng/ul# | 93     |
| 23) 2-Nitrophenol              | 9.96  | 139 | 526345  | 120.92 | ng/ul# | 87     |
| 24) 2,4-Dimethylphenol         | 10.02 | 107 | 883257  | 90.19  | ng/ul  | 91     |
| 25) Bis(2-Chloroethoxy)methane | 10.25 | 93  | 1035798 | 79.63  | ng/ul  | 98     |
| 27) 2,4-Dichlorophenol         | 10.50 | 162 | 851097  | 94.92  | ng/ul  | 96     |
| 28) Naphthalene                | 10.90 | 128 | 2524562 | 75.08  | ng/ul  | 95     |
| 30) 4-Chloroaniline            | 11.00 | 127 | 871560  | 72.90  | ng/ul  | 97     |
| 31) Hexachlorobutadiene        | 11.18 | 225 | 537431  | 82.85  | ng/ul  | 98     |
| 32) Caprolactam                | 11.77 | 113 | 314367m | 97.52  | ng/ul  |        |
| 33) 4-Chloro-3-methylphenol    | 12.13 | 107 | 833816  | 95.18  | ng/ul# | 86     |
| 34) 2-Methylnaphthalene        | 12.49 | 142 | 1956346 | 77.83  | ng/ul  | 98     |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.86 | 216  | 1000142  | 88.88  | ng/ul  | 97       |
| 37) Hexachlorocyclopentadiene  | 12.84 | 237  | 559571   | 94.52  | ng/ul  | 99       |
| 38) 2,4,6-Trichlorophenol      | 13.10 | 196  | 695132   | 118.84 | ng/ul  | 95       |
| 39) 2,4,5-Trichlorophenol      | 13.17 | 196  | 716987   | 114.08 | ng/ul  | 96       |
| 40) 1,1'-Biphenyl              | 13.49 | 154  | 2374293  | 81.13  | ng/ul  | 92       |
| 41) 2-Chloronaphthalene        | 13.54 | 162  | 1848823  | 84.75  | ng/ul  | 94       |
| 42) 2-Nitroaniline             | 13.74 | 65   | 496832   | 99.98  | ng/ul  | 94       |
| 44) Dimethylphthalate          | 14.11 | 163  | 2266978  | 89.36  | ng/ul# | 96       |
| 45) 2,6-Dinitrotoluene         | 14.23 | 165  | 571722   | 110.32 | ng/ul# | 86       |
| 47) Acenaphthylene             | 14.38 | 152  | 2835103  | 80.91  | ng/ul# | 90       |
| 48) 3-Nitroaniline             | 14.55 | 138  | 519169   | 90.34  | ng/ul  | 90       |
| 49) Acenaphthene               | 14.72 | 153  | 2032807  | 82.73  | ng/ul  | 98       |
| 50) 2,4-Dinitrophenol          | 14.76 | 184  | 364248   | 150.94 | ng/ul# | 80       |
| 52) 4-Nitrophenol              | 14.88 | 109  | 278080   | 94.44  | ng/ul# | 58       |
| 53) Dibenzofuran               | 15.05 | 168  | 2775623  | 80.70  | ng/ul  | 96       |
| 54) 2,4-Dinitrotoluene         | 15.01 | 165  | 807104   | 104.07 | ng/ul  | 90       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.28 | 232  | 688049   | 122.48 | ng/ul  | 90       |
| 56) Diethylphthalate           | 15.46 | 149  | 2287408  | 91.95  | ng/ul# | 91       |
| 58) Fluorene                   | 15.70 | 166  | 2317273  | 81.14  | ng/ul  | 99       |
| 59) 4-Chlorophenyl-phenylether | 15.68 | 204  | 1185783  | 86.97  | ng/ul# | 87       |
| 60) 4-Nitroaniline             | 15.72 | 138  | 627766   | 93.69  | ng/ul# | 75       |
| 63) 4,6-Dinitro-2-methylphenol | 15.78 | 198  | 545157   | 114.72 | ng/ul# | 83       |
| 64) N-Nitrosodiphenylamine     | 15.90 | 169  | 2061631  | 80.07  | ng/ul  | 93       |
| 65) 4-Bromophenyl-phenylether  | 16.57 | 248  | 830787   | 85.81  | ng/ul# | 85       |
| 66) Hexachlorobenzene          | 16.70 | 284  | 877939   | 82.68  | ng/ul# | 88       |
| 67) Atrazine                   | 16.84 | 200  | 848846   | 91.30  | ng/ul  | 96       |
| 68) Pentachlorophenol          | 17.04 | 266  | 564386   | 104.29 | ng/ul  | 98       |
| 69) Phenanthrene               | 17.43 | 178  | 3480735  | 70.10  | ng/ul# | 89       |
| 71) Anthracene                 | 17.52 | 178  | 3487582  | 69.69  | ng/ul# | 85       |
| 72) 1,2,3,4-Tetrachlorobenzene | 13.46 | 216  | 988734   | 88.21  | ng/uL  | 99       |
| 73) Pentachlorobenzene         | 14.98 | 250  | 1105424  | 96.18  | ng/uL  | 97       |
| 74) Carbazole                  | 17.78 | 167  | 3331765  | 74.15  | ng/ul# | 90       |
| 75) Di-n-butylphthalate        | 18.33 | 149  | 3639930  | 80.05  | ng/ul# | 93       |
| 76) Fluoranthene               | 19.43 | 202  | 3867183  | 69.06  | ng/ul# | 89       |
| 79) Pyrene                     | 19.79 | 202  | 3847674  | 74.31  | ng/ul# | 89       |
| 80) Butylbenzylphthalate       | 20.66 | 149  | 1784856  | 105.30 | ng/ul# | 92       |
| 81) 3,3'-Dichlorobenzidine     | 21.52 | 252  | 1506858  | 85.96  | ng/ul  | 99       |
| 82) Benzo(a)anthracene         | 21.61 | 228  | 3962297  | 71.31  | ng/ul# | 86       |
| 83) Bis(2-ethylhexyl)phthalate | 21.51 | 149  | 2488402  | 94.09  | ng/ul# | 86       |
| 84) Chrysene                   | 21.68 | 228  | 3638943  | 68.45  | ng/ul# | 85       |
| 86) Di-n-octyl phthalate       | 22.70 | 149  | 4259342  | 92.20  | ng/ul# | 99       |
| 87) Benzo(b)fluoranthene       | 23.81 | 252  | 4492223  | 78.54  | ng/ul  | 93       |
| 88) Benzo(k)fluoranthene       | 23.88 | 252  | 4132285  | 74.14  | ng/ul# | 91       |
| 90) Benzo(a)pyrene             | 24.68 | 252  | 4334023  | 77.10  | ng/ul  | 93       |
| 91) Indeno(1,2,3-cd)pyrene     | 28.45 | 276  | 5496841  | 81.13  | ng/ul  | 94       |
| 92) Dibenzo(a,h)anthracene     | 28.51 | 278  | 4523442  | 80.91  | ng/ul  | 97       |
| 93) Benzo(g,h,i)perylene       | 29.59 | 276  | 4559250  | 81.00  | ng/ul  | 99       |

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

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