

Data Path : Z:\HPCHEM1\BNA G\DATA\BG120615\  
 Data File : BG019974.D  
 Acq On : 6 Dec 2015 19:37  
 Operator : UM/NP  
 Sample : G4614-14MSD  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 S23-15MSD

Quant Time: Dec 07 03:22:57 2015  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG120215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 02 18:50:01 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.11  | 152  | 32754    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 10.93 | 136  | 143394   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 14.74 | 164  | 98347    | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 17.49 | 188  | 239648   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12          | 21.76 | 240  | 290587   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12          | 25.04 | 264  | 276171   | 20.00 | ng    | -0.06    |

## System Monitoring Compounds

|                          |       |     |        |        |    |       |
|--------------------------|-------|-----|--------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.66  | 112 | 207382 | 114.43 | ng | -0.01 |
| 7) Phenol-d6             | 7.26  | 99  | 308314 | 112.68 | ng | -0.01 |
| 23) Nitrobenzene-d5      | 9.28  | 82  | 203597 | 72.46  | ng | -0.02 |
| 41) 2,4,6-Tribromophenol | 16.23 | 330 | 140909 | 93.64  | ng | -0.02 |
| 44) 2-Fluorobiphenyl     | 13.37 | 172 | 440921 | 61.22  | ng | -0.02 |
| 78) Terphenyl-d14        | 20.08 | 244 | 734757 | 61.67  | ng | -0.03 |

## Target Compounds

|                                |       |     |        |       |    | Qvalue |
|--------------------------------|-------|-----|--------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.52  | 88  | 21822  | 30.91 | ng | # 100  |
| 3) Pyridine                    | 3.93  | 79  | 37238  | 17.37 | ng | # 82   |
| 4) n-Nitrosodimethylamine      | 3.84  | 42  | 34479  | 30.57 | ng | # 85   |
| 6) Aniline                     | 7.43  | 93  | 54301  | 15.32 | ng | # 87   |
| 8) 2-Chlorophenol              | 7.67  | 128 | 80340  | 36.36 | ng | # 95   |
| 9) Benzaldehyde                | 7.25  | 77  | 30858  | 16.91 | ng | # 93   |
| 10) Phenol                     | 7.29  | 94  | 116534 | 40.47 | ng | # 76   |
| 11) bis(2-Chloroethyl)ether    | 7.53  | 93  | 74430  | 34.90 | ng | # 85   |
| 12) 1,3-Dichlorobenzene        | 8.00  | 146 | 81880  | 32.69 | ng | # 92   |
| 13) 1,4-Dichlorobenzene        | 8.15  | 146 | 82675  | 31.96 | ng | # 95   |
| 14) 1,2-Dichlorobenzene        | 8.47  | 146 | 81752  | 33.13 | ng | # 97   |
| 15) Benzyl Alcohol             | 8.35  | 79  | 85999  | 35.82 | ng | # 90   |
| 16) 2,2'-oxybis(1-Chloropropan | 8.65  | 45  | 115970 | 33.34 | ng | # 93   |
| 17) 2-Methylphenol             | 8.55  | 107 | 76889  | 37.82 | ng | # 91   |
| 18) Hexachloroethane           | 9.21  | 117 | 31085  | 32.09 | ng | # 98   |
| 19) n-Nitroso-di-n-propylamine | 8.92  | 70  | 70992  | 32.90 | ng | # 90   |
| 20) 3+4-Methylphenols          | 8.87  | 107 | 104221 | 36.41 | ng | # 92   |
| 22) Acetophenone               | 8.94  | 105 | 126402 | 32.16 | ng | # 92   |
| 24) Nitrobenzene               | 9.32  | 77  | 107145 | 35.16 | ng | # 89   |
| 25) Isophorone                 | 9.85  | 82  | 188405 | 31.28 | ng | # 97   |
| 26) 2-Nitrophenol              | 10.04 | 139 | 44808  | 38.07 | ng | # 73   |
| 27) 2,4-Dimethylphenol         | 10.09 | 122 | 82377  | 33.61 | ng | # 90   |
| 28) bis(2-Chloroethoxy)methane | 10.33 | 93  | 108901 | 37.00 | ng | # 99   |
| 29) 2,4-Dichlorophenol         | 10.57 | 162 | 92900  | 37.10 | ng | # 98   |
| 30) 1,2,4-Trichlorobenzene     | 10.79 | 180 | 91691  | 32.40 | ng | # 96   |
| 31) Naphthalene                | 10.98 | 128 | 259790 | 33.82 | ng | # 99   |
| 32) Benzoic acid               | 10.15 | 122 | 13112  | 12.95 | ng | # 93   |
| 33) 4-Chloroaniline            | 11.08 | 127 | 52871  | 15.62 | ng | # 93   |
| 34) Hexachlorobutadiene        | 11.26 | 225 | 62690  | 30.03 | ng | # 96   |
| 35) Caprolactam                | 11.85 | 113 | 25493  | 27.35 | ng | # 62   |
| 36) 4-Chloro-3-methylphenol    | 12.19 | 107 | 107251 | 34.39 | ng | # 94   |
| 37) 2-Methylnaphthalene        | 12.58 | 142 | 194201 | 34.50 | ng | # 96   |
| 39) 1,2,4,5-Tetrachlorobenzene | 12.94 | 216 | 119995 | 32.15 | ng | # 99   |
| 40) Hexachlorocyclopentadiene  | 12.92 | 237 | 120802 | 56.77 | ng | # 98   |

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|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 13.17 | 196  | 82712    | 33.47 | nq    | 94       |
| 43) 2,4,5-Trichlorophenol      | 13.25 | 196  | 92474    | 35.41 | nq    | 96       |
| 45) 1,1'-Biphenyl              | 13.58 | 154  | 251320   | 31.14 | nq    | 98       |
| 46) 2-Chloronaphthalene        | 13.63 | 162  | 207312   | 33.32 | nq    | 95       |
| 47) 2-Nitroaniline             | 13.82 | 65   | 74995    | 38.17 | nq    | 93       |
| 48) Acenaphthylene             | 14.47 | 152  | 337895   | 31.89 | nq    | 99       |
| 49) Dimethylphthalate          | 14.20 | 163  | 381101   | 43.08 | nq    | 98       |
| 50) 2,6-Dinitrotoluene         | 14.31 | 165  | 60322    | 36.27 | nq    | # 81     |
| 51) Acenaphthene               | 14.81 | 154  | 215090   | 33.45 | nq    | 98       |
| 52) 3-Nitroaniline             | 14.64 | 138  | 48996    | 28.35 | nq    | 100      |
| 53) 2,4-Dinitrophenol          | 14.84 | 184  | 28248    | 37.48 | nq    | 95       |
| 54) Dibenzofuran               | 15.14 | 168  | 332022   | 34.71 | nq    | 95       |
| 55) 4-Nitrophenol              | 14.94 | 139  | 99890    | 66.37 | nq    | # 66     |
| 56) 2,4-Dinitrotoluene         | 15.09 | 165  | 86954    | 37.47 | nq    | # 90     |
| 57) Fluorene                   | 15.79 | 166  | 267741   | 31.27 | nq    | 98       |
| 58) 2,3,4,6-Tetrachlorophenol  | 15.36 | 232  | 85567    | 35.40 | nq    | 98       |
| 59) Diethylphthalate           | 15.55 | 149  | 285480   | 29.82 | nq    | 97       |
| 60) 4-Chlorophenyl-phenylether | 15.78 | 204  | 145728   | 29.64 | nq    | 96       |
| 61) 4-Nitroaniline             | 15.80 | 138  | 66205    | 34.06 | nq    | # 79     |
| 62) Azobenzene                 | 16.07 | 77   | 270228   | 33.92 | nq    | 96       |
| 64) 4,6-Dinitro-2-methylphenol | 15.85 | 198  | 38457    | 31.04 | nq    | 92       |
| 65) n-Nitrosodiphenylamine     | 15.99 | 169  | 242395   | 34.95 | nq    | 97       |
| 66) 4-Bromophenyl-phenylether  | 16.67 | 248  | 94215    | 31.64 | nq    | 94       |
| 67) Hexachlorobenzene          | 16.79 | 284  | 102985   | 33.20 | nq    | 97       |
| 68) Atrazine                   | 16.93 | 200  | 101181   | 33.58 | nq    | 93       |
| 69) Pentachlorophenol          | 17.13 | 266  | 118403   | 65.40 | nq    | 95       |
| 70) Phenanthrene               | 17.53 | 178  | 451163   | 33.27 | nq    | 96       |
| 71) Anthracene                 | 17.62 | 178  | 452021   | 32.73 | nq    | 97       |
| 72) Carbazole                  | 17.88 | 167  | 419042   | 34.44 | nq    | 98       |
| 73) Di-n-butylphthalate        | 18.44 | 149  | 488401   | 32.75 | nq    | 98       |
| 74) Fluoranthene               | 19.52 | 202  | 562188   | 32.42 | nq    | 95       |
| 76) Benzidine                  | 19.70 | 184  | 41215    | 4.32  | nq    | 96       |
| 77) Pyrene                     | 19.89 | 202  | 572575   | 33.49 | nq    | 96       |
| 79) Butylbenzylphthalate       | 20.77 | 149  | 224645   | 33.53 | nq    | 97       |
| 80) Benzo(a)anthracene         | 21.74 | 228  | 579494   | 32.58 | nq    | 98       |
| 81) 3,3'-Dichlorobenzidine     | 21.65 | 252  | 134116   | 19.80 | nq    | 98       |
| 82) Chrysene                   | 21.80 | 228  | 525350   | 31.11 | nq    | 98       |
| 83) Bis(2-ethylhexyl)phthalate | 21.64 | 149  | 323168   | 32.86 | nq    | # 97     |
| 84) Di-n-octyl phthalate       | 22.87 | 149  | 558074   | 34.91 | nq    | # 94     |
| 85) Indeno(1,2,3-cd)pyrene     | 28.78 | 276  | 629384   | 33.83 | nq    | # 100    |
| 87) Benzo(b)fluoranthene       | 23.99 | 252  | 554435   | 31.68 | nq    | # 95     |
| 88) Benzo(k)fluoranthene       | 24.06 | 252  | 543215   | 31.34 | nq    | # 94     |
| 89) Benzo(a)pyrene             | 24.88 | 252  | 537576   | 32.35 | nq    | # 96     |
| 90) Dibenzo(a,h)anthracene     | 28.86 | 278  | 522497   | 31.83 | nq    | # 94     |
| 91) Benzo(g,h,i)perylene       | 29.96 | 276  | 521572   | 32.35 | nq    | # 92     |

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

