

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032515\  
 Data File : BF077980.D  
 Acq On : 26 Mar 2015 6:26  
 Operator : TP/IZ  
 Sample : G1643-11MSD  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-10-3-23-15MSD

Quant Time: Mar 26 07:10:52 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 26 00:45:24 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.09  | 152  | 52305    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.67  | 136  | 214610   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.84 | 164  | 108736   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 12.67 | 188  | 206759   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 15.95 | 240  | 212604   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 17.68 | 264  | 213267   | 20.00 | ng    | -0.07    |

## System Monitoring Compounds

|                          |       |     |        |        |    |      |
|--------------------------|-------|-----|--------|--------|----|------|
| 5) 2-Fluorophenol        | 5.38  | 112 | 131263 | 43.81  | ng | 0.00 |
| 7) Phenol-d6             | 6.67  | 99  | 99857  | 26.97  | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.79  | 82  | 238155 | 72.74  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 11.82 | 330 | 109026 | 104.80 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 10.02 | 172 | 526581 | 71.17  | ng | 0.00 |
| 78) Terphenyl-d14        | 14.67 | 244 | 599586 | 68.89  | ng | 0.00 |

## Target Compounds

|                                |      |     |        |       |    | Qvalue |
|--------------------------------|------|-----|--------|-------|----|--------|
| 2) 1,4-Dioxane                 | 1.97 | 88  | 13756  | 10.11 | ng | # 100  |
| 3) Pyridine                    | 2.66 | 79  | 40317  | 11.03 | ng | 99     |
| 4) n-Nitrosodimethylamine      | 2.58 | 42  | 16262  | 10.22 | ng | 97     |
| 6) Aniline                     | 6.68 | 93  | 66440  | 12.55 | ng | # 87   |
| 8) 2-Chlorophenol              | 6.83 | 128 | 99106  | 27.79 | ng | 93     |
| 9) Benzaldehyde                | 6.54 | 77  | 6244   | 4.12  | ng | 89     |
| 10) Phenol                     | 6.69 | 94  | 43201  | 9.87  | ng | 85     |
| 11) bis(2-Chloroethyl)ether    | 6.78 | 93  | 117490 | 35.84 | ng | 91     |
| 12) 1,3-Dichlorobenzene        | 7.01 | 146 | 120357 | 30.34 | ng | 97     |
| 13) 1,4-Dichlorobenzene        | 7.12 | 146 | 123340 | 29.92 | ng | 98     |
| 14) 1,2-Dichlorobenzene        | 7.30 | 146 | 122390 | 32.39 | ng | 97     |
| 15) Benzyl Alcohol             | 7.29 | 79  | 60562  | 20.96 | ng | 97     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.46 | 45  | 154216 | 34.91 | ng | 98     |
| 17) 2-Methylphenol             | 7.45 | 107 | 60544  | 20.85 | ng | # 92   |
| 18) Hexachloroethane           | 7.71 | 117 | 41700  | 30.85 | ng | 89     |
| 19) n-Nitroso-di-n-propylamine | 7.62 | 70  | 87311  | 34.09 | ng | 98     |
| 20) 3+4-Methylphenols          | 7.63 | 107 | 92909  | 24.38 | ng | 90     |
| 22) Acetophenone               | 7.61 | 105 | 182478 | 38.41 | ng | 96     |
| 24) Nitrobenzene               | 7.81 | 77  | 128595 | 36.46 | ng | 96     |
| 25) Isophorone                 | 8.11 | 82  | 227919 | 34.47 | ng | # 92   |
| 26) 2-Nitrophenol              | 8.21 | 139 | 61002  | 35.33 | ng | 91     |
| 27) 2,4-Dimethylphenol         | 8.28 | 122 | 98195  | 31.21 | ng | 95     |
| 28) bis(2-Chloroethoxy)methane | 8.40 | 93  | 140862 | 35.10 | ng | 97     |
| 29) 2,4-Dichlorophenol         | 8.51 | 162 | 99108  | 33.05 | ng | 97     |
| 30) 1,2,4-Trichlorobenzene     | 8.60 | 180 | 106809 | 31.84 | ng | 96     |
| 31) Naphthalene                | 8.69 | 128 | 354154 | 32.13 | ng | 99     |
| 32) Benzoic acid               | 8.37 | 122 | 16050  | 11.65 | ng | 94     |
| 33) 4-Chloroaniline            | 8.78 | 127 | 68161  | 15.24 | ng | 99     |
| 34) Hexachlorobutadiene        | 8.85 | 225 | 60474  | 31.80 | ng | 98     |
| 35) Caprolactam                | 9.21 | 113 | 4182   | 4.77  | ng | 93     |
| 36) 4-Chloro-3-methylphenol    | 9.39 | 107 | 92566  | 30.68 | ng | # 85   |
| 37) 2-Methylnaphthalene        | 9.56 | 142 | 252405 | 34.09 | ng | 98     |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.77 | 216 | 108051 | 33.32 | ng | # 100  |
| 40) Hexachlorocyclopentadiene  | 9.74 | 237 | 92823  | 58.08 | ng | 97     |

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|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 9.92  | 196  | 75114    | 33.44 | nq    | 98       |
| 43) 2,4,5-Trichlorophenol      | 9.96  | 196  | 79838    | 32.90 | nq    | # 91     |
| 45) 1,1'-Biphenyl              | 10.13 | 154  | 303379   | 34.90 | nq    | 97       |
| 46) 2-Chloronaphthalene        | 10.16 | 162  | 237777   | 33.66 | nq    | # 93     |
| 47) 2-Nitroaniline             | 10.29 | 65   | 66481    | 37.89 | nq    | 95       |
| 48) Acenaphthylene             | 10.67 | 152  | 387144   | 32.96 | nq    | 99       |
| 49) Dimethylphthalate          | 10.53 | 163  | 299655   | 37.16 | nq    | 100      |
| 50) 2,6-Dinitrotoluene         | 10.60 | 165  | 62742    | 37.53 | nq    | 99       |
| 51) Acenaphthene               | 10.88 | 154  | 217839   | 32.34 | nq    | 99       |
| 52) 3-Nitroaniline             | 10.81 | 138  | 32922    | 16.96 | nq    | 100      |
| 53) 2,4-Dinitrophenol          | 10.94 | 184  | 42697    | 70.58 | nq    | # 66     |
| 54) Dibenzofuran               | 11.09 | 168  | 337752   | 33.81 | nq    | 94       |
| 55) 4-Nitrophenol              | 11.04 | 139  | 30389    | 21.13 | nq    | 85       |
| 56) 2,4-Dinitrotoluene         | 11.09 | 165  | 80507    | 36.93 | nq    | # 88     |
| 57) Fluorene                   | 11.52 | 166  | 280685   | 33.84 | nq    | 100      |
| 58) 2,3,4,6-Tetrachlorophenol  | 11.25 | 232  | 67535    | 36.14 | nq    | # 100    |
| 59) Diethylphthalate           | 11.40 | 149  | 278972   | 35.50 | nq    | 95       |
| 60) 4-Chlorophenyl-phenylether | 11.53 | 204  | 126764   | 33.49 | nq    | # 90     |
| 61) 4-Nitroaniline             | 11.56 | 138  | 57924    | 29.94 | nq    | 93       |
| 62) Azobenzene                 | 11.72 | 77   | 260412   | 34.67 | nq    | 92       |
| 64) 4,6-Dinitro-2-methylphenol | 11.60 | 198  | 33959    | 35.97 | nq    | 92       |
| 65) n-Nitrosodiphenylamine     | 11.68 | 169  | 242599   | 35.24 | nq    | 99       |
| 66) 4-Bromophenyl-phenylether  | 12.13 | 248  | 76876    | 34.84 | nq    | # 87     |
| 67) Hexachlorobenzene          | 12.19 | 284  | 83703    | 34.52 | nq    | # 93     |
| 68) Atrazine                   | 12.36 | 200  | 76899    | 39.86 | nq    | 98       |
| 69) Pentachlorophenol          | 12.44 | 266  | 87362    | 69.23 | nq    | 98       |
| 70) Phenanthrene               | 12.70 | 178  | 422100   | 35.56 | nq    | 99       |
| 71) Anthracene                 | 12.77 | 178  | 424285   | 36.18 | nq    | 99       |
| 72) Carbazole                  | 12.98 | 167  | 410317   | 36.78 | nq    | 99       |
| 73) Di-n-butylphthalate        | 13.44 | 149  | 503268   | 40.24 | nq    | 99       |
| 74) Fluoranthene               | 14.18 | 202  | 469106   | 35.83 | nq    | 97       |
| 76) Benzidine                  | 14.36 | 184  | 63689    | 11.76 | nq    | 100      |
| 77) Pyrene                     | 14.45 | 202  | 481979   | 36.05 | nq    | 99       |
| 79) Butylbenzylphthalate       | 15.29 | 149  | 218658   | 41.48 | nq    | 87       |
| 80) Benzo(a)anthracene         | 15.94 | 228  | 442845   | 35.14 | nq    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 15.93 | 252  | 93012    | 22.37 | nq    | 100      |
| 82) Chrysene                   | 15.99 | 228  | 429264   | 37.88 | nq    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 16.01 | 149  | 322687   | 40.41 | nq    | # 94     |
| 84) Di-n-octyl phthalate       | 16.81 | 149  | 560485   | 41.05 | nq    | 100      |
| 85) Indeno(1,2,3-cd)pyrene     | 19.04 | 276  | 490879   | 34.71 | nq    | # 100    |
| 87) Benzo(b)fluoranthene       | 17.24 | 252  | 430199   | 30.90 | nq    | 97       |
| 88) Benzo(k)fluoranthene       | 17.28 | 252  | 440307m  | 40.49 | nq    |          |
| 89) Benzo(a)pyrene             | 17.62 | 252  | 430657   | 37.07 | nq    | 98       |
| 90) Dibenzo(a,h)anthracene     | 19.06 | 278  | 400294   | 34.74 | nq    | 96       |
| 91) Benzo(g,h,i)perylene       | 19.44 | 276  | 407488   | 34.74 | nq    | 98       |

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

