

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051117\  
 Data File : BF095085.D  
 Acq On : 11 May 2017 17:59  
 Operator : SJ/MA  
 Sample : PB98865BS  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB98865BS

Manual Integrations  
 APPROVED

mohammad  
 5/12/2017 3:36:00 PM

Quant Time: May 11 18:50:45 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 11 16:33:45 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.71  | 152  | 94973    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 9.72  | 136  | 422671   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 12.55 | 164  | 194775   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 14.95 | 188  | 357416   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 18.63 | 240  | 305386   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 20.29 | 264  | 219324   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.66  | 112 | 641194  | 112.56 | ng | 0.01 |
| 7) Phenol-d6             | 7.26  | 99  | 788167  | 115.31 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 8.61  | 82  | 499196  | 74.48  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 13.85 | 330 | 196450  | 123.15 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 11.50 | 172 | 1043443 | 77.11  | ng | 0.00 |
| 78) Terphenyl-d14        | 17.28 | 244 | 954068  | 68.81  | ng | 0.00 |

## Target Compounds

|                                |       |     |        |       |    | Qvalue |
|--------------------------------|-------|-----|--------|-------|----|--------|
| 2) 1,4-Dioxane                 | 2.12  | 88  | 88178  | 31.56 | ng | 97     |
| 3) Pyridine                    | 2.80  | 79  | 182509 | 28.19 | ng | 99     |
| 4) n-Nitrosodimethylamine      | 2.72  | 42  | 91708  | 33.98 | ng | 91     |
| 6) Aniline                     | 7.21  | 93  | 167001 | 19.35 | ng | 97     |
| 8) 2-Chlorophenol              | 7.40  | 128 | 250245 | 38.60 | ng | 94     |
| 9) Benzaldehyde                | 7.07  | 77  | 21095  | 5.05  | ng | 94     |
| 10) Phenol                     | 7.27  | 94  | 260661 | 36.19 | ng | 90     |
| 11) bis(2-Chloroethyl)ether    | 7.34  | 93  | 211690 | 35.60 | ng | 97     |
| 12) 1,3-Dichlorobenzene        | 7.61  | 146 | 260374 | 35.40 | ng | 97     |
| 13) 1,4-Dichlorobenzene        | 7.73  | 146 | 271506 | 36.40 | ng | 95     |
| 14) 1,2-Dichlorobenzene        | 7.97  | 146 | 262079 | 37.64 | ng | 97     |
| 15) Benzyl Alcohol             | 8.00  | 79  | 197383 | 44.90 | ng | 97     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.20  | 45  | 308463 | 36.65 | ng | 95     |
| 17) 2-Methylphenol             | 8.21  | 107 | 214161 | 40.36 | ng | 96     |
| 18) Hexachloroethane           | 8.48  | 117 | 95192  | 37.67 | ng | 88     |
| 19) n-Nitroso-di-n-propylamine | 8.42  | 70  | 185920 | 40.22 | ng | # 93   |
| 20) 3+4-Methylphenols          | 8.47  | 107 | 284896 | 39.51 | ng | # 56   |
| 22) Acetophenone               | 8.38  | 105 | 368533 | 36.34 | ng | # 84   |
| 24) Nitrobenzene               | 8.64  | 77  | 258334 | 36.77 | ng | 95     |
| 25) Isophorone                 | 9.04  | 82  | 466632 | 38.99 | ng | # 94   |
| 26) 2-Nitrophenol              | 9.14  | 139 | 147840 | 39.00 | ng | 97     |
| 27) 2,4-Dimethylphenol         | 9.28  | 122 | 238869 | 38.97 | ng | 98     |
| 28) bis(2-Chloroethoxy)methane | 9.41  | 93  | 299160 | 36.13 | ng | 100    |
| 29) 2,4-Dichlorophenol         | 9.58  | 162 | 219178 | 37.87 | ng | 100    |
| 30) 1,2,4-Trichlorobenzene     | 9.65  | 180 | 224146 | 36.15 | ng | 99     |
| 31) Naphthalene                | 9.76  | 128 | 762956 | 35.92 | ng | 99     |
| 32) Benzoic acid               | 9.61  | 122 | 115064 | 30.65 | ng | 92     |
| 33) 4-Chloroaniline            | 9.94  | 127 | 53130  | 6.71  | ng | 93     |
| 34) Hexachlorobutadiene        | 9.98  | 225 | 113182 | 34.60 | ng | 98     |
| 35) Caprolactam                | 10.52 | 113 | 61985m | 35.67 | ng |        |
| 36) 4-Chloro-3-methylphenol    | 10.76 | 107 | 249681 | 40.35 | ng | # 87   |
| 37) 2-Methylnaphthalene        | 10.88 | 142 | 545024 | 39.09 | ng | 98     |
| 39) 1,2,4,5-Tetrachlorobenzene | 11.16 | 216 | 216010 | 36.06 | ng | 100    |
| 40) Hexachlorocyclopentadiene  | 11.14 | 237 | 171996 | 69.19 | ng | 98     |

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|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 11.38 | 196  | 153978   | 38.50 | nq    | 99       |
| 43) 2,4,5-Trichlorophenol      | 11.48 | 196  | 153394   | 35.69 | nq    | 95       |
| 45) 1,1'-Biphenyl              | 11.65 | 154  | 612608   | 37.36 | nq    | 98       |
| 46) 2-Chloronaphthalene        | 11.67 | 162  | 486759   | 36.76 | nq    | 95       |
| 47) 2-Nitroaniline             | 11.88 | 65   | 133343   | 36.79 | nq    | # 86     |
| 48) Acenaphthylene             | 12.32 | 152  | 790089   | 38.09 | nq    | 99       |
| 49) Dimethylphthalate          | 12.20 | 163  | 587590   | 36.75 | nq    | 99       |
| 50) 2,6-Dinitrotoluene         | 12.29 | 165  | 131347   | 40.26 | nq    | # 91     |
| 51) Acenaphthene               | 12.61 | 154  | 454120   | 36.66 | nq    | 99       |
| 52) 3-Nitroaniline             | 12.58 | 138  | 48018    | 13.71 | nq    | 87       |
| 53) 2,4-Dinitrophenol          | 12.77 | 184  | 112783   | 64.12 | nq    | # 65     |
| 54) Dibenzofuran               | 12.90 | 168  | 706594   | 41.22 | nq    | 98       |
| 55) 4-Nitrophenol              | 12.96 | 139  | 155072   | 73.74 | nq    | # 69     |
| 56) 2,4-Dinitrotoluene         | 12.96 | 165  | 179240   | 42.76 | nq    | # 89     |
| 57) Fluorene                   | 13.45 | 166  | 580348   | 38.93 | nq    | 99       |
| 58) 2,3,4,6-Tetrachlorophenol  | 13.14 | 232  | 124917   | 46.18 | nq    | # 93     |
| 59) Diethylphthalate           | 13.35 | 149  | 577787   | 37.70 | nq    | 99       |
| 60) 4-Chlorophenyl-phenylether | 13.47 | 204  | 257547   | 39.31 | nq    | 93       |
| 61) 4-Nitroaniline             | 13.57 | 138  | 126600   | 39.39 | nq    | 95       |
| 62) Azobenzene                 | 13.73 | 77   | 535050   | 43.45 | nq    | 95       |
| 64) 4,6-Dinitro-2-methylphenol | 13.62 | 198  | 82636    | 34.49 | nq    | # 65     |
| 65) n-Nitrosodiphenylamine     | 13.68 | 169  | 485902   | 37.46 | nq    | 98       |
| 66) 4-Bromophenyl-phenylether  | 14.26 | 248  | 145331   | 38.49 | nq    | 98       |
| 67) Hexachlorobenzene          | 14.34 | 284  | 146099   | 37.75 | nq    | # 89     |
| 68) Atrazine                   | 14.61 | 200  | 137231   | 37.47 | nq    | 99       |
| 69) Pentachlorophenol          | 14.70 | 266  | 106798   | 62.43 | nq    | 98       |
| 70) Phenanthrene               | 14.99 | 178  | 789901   | 38.46 | nq    | 98       |
| 71) Anthracene                 | 15.08 | 178  | 831791   | 39.65 | nq    | 98       |
| 72) Carbazole                  | 15.36 | 167  | 766368   | 40.15 | nq    | 98       |
| 73) Di-n-butylphthalate        | 15.92 | 149  | 962584   | 40.44 | nq    | 99       |
| 74) Fluoranthene               | 16.74 | 202  | 825532   | 39.19 | nq    | 99       |
| 76) Benzidine                  | 16.96 | 184  | 259066   | 33.65 | nq    | # 92     |
| 77) Pyrene                     | 17.04 | 202  | 856616   | 37.51 | nq    | 99       |
| 79) Butylbenzylphthalate       | 17.94 | 149  | 388187   | 36.54 | nq    | # 86     |
| 80) Benzo(a)anthracene         | 18.62 | 228  | 674831   | 37.97 | nq    | 98       |
| 81) 3,3'-Dichlorobenzidine     | 18.60 | 252  | 125112   | 20.38 | nq    | # 95     |
| 82) Chrysene                   | 18.66 | 228  | 635963   | 37.01 | nq    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 18.69 | 149  | 561019   | 37.06 | nq    | # 99     |
| 84) Di-n-octyl phthalate       | 19.45 | 149  | 925024   | 37.28 | nq    | 96       |
| 85) Indeno(1,2,3-cd)pyrene     | 21.58 | 276  | 481337   | 34.49 | nq    | 99       |
| 87) Benzo(b)fluoranthene       | 19.89 | 252  | 559269   | 41.27 | nq    | 99       |
| 88) Benzo(k)fluoranthene       | 19.92 | 252  | 578155   | 44.23 | nq    | # 94     |
| 89) Benzo(a)pyrene             | 20.24 | 252  | 531223   | 42.48 | nq    | 99       |
| 90) Dibenzo(a,h)anthracene     | 21.59 | 278  | 402479   | 38.97 | nq    | 98       |
| 91) Benzo(g,h,i)perylene       | 21.96 | 276  | 397722   | 39.24 | nq    | 96       |

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

