

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF092415\  
 Data File : BF081790.D  
 Acq On : 25 Sep 2015 6:08  
 Operator : UM/IZ  
 Sample : G3708-04MS  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MGP209BR-29-30MS

Manual Integrations  
 APPROVED

MMDadoda  
 9/25/2015 3:37:20 PM

Quant Time: Sep 25 07:23:45 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 25 07:13:40 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.95  | 152  | 150991   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.24  | 136  | 620561   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.00 | 164  | 326361   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.47 | 188  | 611691   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.12 | 240  | 404875   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.58 | 264  | 343251   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.55  | 112 | 1068649 | 119.73 | ng | 0.01 |
| 7) Phenol-d6             | 6.58  | 99  | 1500989 | 132.96 | ng | 0.01 |
| 23) Nitrobenzene-d5      | 7.52  | 82  | 859833  | 91.42  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.79 | 330 | 434638  | 153.40 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.31  | 172 | 1595556 | 80.25  | ng | 0.00 |
| 78) Terphenyl-d14        | 13.06 | 244 | 1559080 | 87.96  | ng | 0.00 |

## Target Compounds

|                                |      |     |         |       |    | Qvalue |
|--------------------------------|------|-----|---------|-------|----|--------|
| 2) 1,4-Dioxane                 | 2.69 | 88  | 156344  | 35.39 | ng | 90     |
| 3) Pyridine                    | 3.44 | 79  | 443795  | 35.61 | ng | 87     |
| 4) n-Nitrosodimethylamine      | 3.41 | 42  | 237656  | 40.41 | ng | 99     |
| 6) Aniline                     | 6.62 | 93  | 537452  | 31.80 | ng | 91     |
| 8) 2-Chlorophenol              | 6.74 | 128 | 432897  | 44.02 | ng | 92     |
| 9) Benzaldehyde                | 6.50 | 77  | 185201  | 27.75 | ng | # 85   |
| 10) Phenol                     | 6.59 | 94  | 681679  | 51.99 | ng | 75     |
| 11) bis(2-Chloroethyl)ether    | 6.70 | 93  | 424098  | 44.10 | ng | 87     |
| 12) 1,3-Dichlorobenzene        | 6.89 | 146 | 471530  | 40.52 | ng | # 93   |
| 13) 1,4-Dichlorobenzene        | 6.97 | 146 | 511008  | 43.40 | ng | # 96   |
| 14) 1,2-Dichlorobenzene        | 7.12 | 146 | 438665m | 40.04 | ng |        |
| 15) Benzyl Alcohol             | 7.10 | 79  | 440829  | 49.51 | ng | # 80   |
| 16) 2,2'-oxybis(1-Chloropropan | 7.23 | 45  | 769009  | 46.75 | ng | 87     |
| 17) 2-Methylphenol             | 7.20 | 107 | 374329  | 45.07 | ng | # 85   |
| 18) Hexachloroethane           | 7.46 | 117 | 162030  | 42.26 | ng | # 87   |
| 19) n-Nitroso-di-n-propylamine | 7.37 | 70  | 320910  | 42.64 | ng | # 81   |
| 20) 3+4-Methylphenols          | 7.36 | 107 | 496462  | 47.57 | ng | # 71   |
| 22) Acetophenone               | 7.37 | 105 | 627040  | 46.07 | ng | # 84   |
| 24) Nitrobenzene               | 7.54 | 77  | 537721  | 51.24 | ng | # 76   |
| 25) Isophorone                 | 7.78 | 82  | 956707  | 45.92 | ng | # 93   |
| 26) 2-Nitrophenol              | 7.85 | 139 | 208572  | 54.72 | ng | # 53   |
| 27) 2,4-Dimethylphenol         | 7.89 | 122 | 385780  | 40.82 | ng | # 80   |
| 28) bis(2-Chloroethoxy)methane | 7.99 | 93  | 572759  | 47.06 | ng | # 93   |
| 29) 2,4-Dichlorophenol         | 8.09 | 162 | 422694  | 48.05 | ng | 96     |
| 30) 1,2,4-Trichlorobenzene     | 8.18 | 180 | 450450  | 45.62 | ng | 99     |
| 31) Naphthalene                | 8.26 | 128 | 1303461 | 45.53 | ng | 96     |
| 32) Benzoic acid               | 7.94 | 122 | 17522   | 9.52  | ng | # 70   |
| 33) 4-Chloroaniline            | 8.31 | 127 | 308883  | 24.58 | ng | # 92   |
| 34) Hexachlorobutadiene        | 8.38 | 225 | 262088  | 45.00 | ng | 99     |
| 35) Caprolactam                | 8.69 | 113 | 131762m | 56.06 | ng |        |
| 36) 4-Chloro-3-methylphenol    | 8.79 | 107 | 482130  | 54.69 | ng | 86     |
| 37) 2-Methylnaphthalene        | 8.95 | 142 | 881820  | 43.22 | ng | # 90   |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.12 | 216 | 460323  | 44.19 | ng | 99     |
| 40) Hexachlorocyclopentadiene  | 9.11 | 237 | 439201  | 98.38 | ng | 99     |

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|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 9.22  | 196  | 335364   | 48.86 | ng    | 99       |
| 43) 2,4,5-Trichlorophenol      | 9.27  | 196  | 331073   | 49.03 | ng    | 96       |
| 45) 1,1'-Biphenyl              | 9.42  | 154  | 1107868  | 43.42 | ng    | 93       |
| 46) 2-Chloronaphthalene        | 9.44  | 162  | 856934   | 41.75 | ng    | # 92     |
| 47) 2-Nitroaniline             | 9.53  | 65   | 284578   | 52.13 | ng    | # 69     |
| 48) Acenaphthylene             | 9.86  | 152  | 1516945  | 43.67 | ng    | 96       |
| 49) Dimethylphthalate          | 9.73  | 163  | 1633652  | 65.78 | ng    | # 98     |
| 50) 2,6-Dinitrotoluene         | 9.78  | 165  | 252277   | 52.63 | ng    | # 70     |
| 51) Acenaphthene               | 10.03 | 154  | 920520   | 45.98 | ng    | 90       |
| 52) 3-Nitroaniline             | 9.95  | 138  | 192088   | 36.95 | ng    | # 96     |
| 53) 2,4-Dinitrophenol          | 10.06 | 184  | 73858    | 80.30 | ng    | # 75     |
| 54) Dibenzofuran               | 10.21 | 168  | 1345162  | 45.80 | ng    | # 92     |
| 55) 4-Nitrophenol              | 10.10 | 139  | 354218   | 98.80 | ng    | # 46     |
| 56) 2,4-Dinitrotoluene         | 10.18 | 165  | 293869   | 51.21 | ng    | # 70     |
| 57) Fluorene                   | 10.55 | 166  | 984960   | 43.70 | ng    | 92       |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.32 | 232  | 270016   | 52.39 | ng    | 98       |
| 59) Diethylphthalate           | 10.42 | 149  | 1167474  | 48.54 | ng    | 95       |
| 60) 4-Chlorophenyl-phenylether | 10.54 | 204  | 478094   | 46.21 | ng    | 92       |
| 61) 4-Nitroaniline             | 10.57 | 138  | 259562   | 51.39 | ng    | # 60     |
| 62) Azobenzene                 | 10.70 | 77   | 1157116  | 47.05 | ng    | 94       |
| 64) 4,6-Dinitro-2-methylphenol | 10.59 | 198  | 84624    | 55.85 | ng    | # 51     |
| 65) n-Nitrosodiphenylamine     | 10.65 | 169  | 900978   | 43.68 | ng    | 91       |
| 66) 4-Bromophenyl-phenylether  | 11.03 | 248  | 325987   | 47.86 | ng    | 91       |
| 67) Hexachlorobenzene          | 11.09 | 284  | 310005   | 43.62 | ng    | # 91     |
| 68) Atrazine                   | 11.19 | 200  | 324795   | 52.66 | ng    | 84       |
| 69) Pentachlorophenol          | 11.28 | 266  | 337193   | 85.42 | ng    | 98       |
| 70) Phenanthrene               | 11.51 | 178  | 1483343m | 42.42 | ng    |          |
| 71) Anthracene                 | 11.55 | 178  | 1351385  | 40.10 | ng    | 95       |
| 72) Carbazole                  | 11.71 | 167  | 1399598  | 44.74 | ng    | 94       |
| 73) Di-n-butylphthalate        | 12.05 | 149  | 1721435  | 45.21 | ng    | # 99     |
| 74) Fluoranthene               | 12.70 | 202  | 1501954  | 42.62 | ng    | 86       |
| 76) Benzidine                  | 12.81 | 184  | 399097   | 29.05 | ng    | 98       |
| 77) Pyrene                     | 12.93 | 202  | 1504477m | 49.29 | ng    |          |
| 79) Butylbenzylphthalate       | 13.54 | 149  | 699086   | 57.47 | ng    | # 88     |
| 80) Benzo(a)anthracene         | 14.10 | 228  | 1056095  | 43.02 | ng    | 95       |
| 81) 3,3'-Dichlorobenzidine     | 14.07 | 252  | 271597   | 34.83 | ng    | # 96     |
| 82) Chrysene                   | 14.15 | 228  | 1064833m | 45.23 | ng    |          |
| 83) Bis(2-ethylhexyl)phthalate | 14.09 | 149  | 883951   | 59.93 | ng    | # 93     |
| 84) Di-n-octyl phthalate       | 14.71 | 149  | 1471800  | 67.85 | ng    | 95       |
| 85) Indeno(1,2,3-cd)pyrene     | 17.05 | 276  | 965627   | 44.80 | ng    | # 88     |
| 87) Benzo(b)fluoranthene       | 15.16 | 252  | 882070   | 43.33 | ng    | # 87     |
| 88) Benzo(k)fluoranthene       | 15.19 | 252  | 893479m  | 45.57 | ng    |          |
| 89) Benzo(a)pyrene             | 15.52 | 252  | 828625   | 45.09 | ng    | # 87     |
| 90) Dibenzo(a,h)anthracene     | 17.08 | 278  | 813349   | 42.47 | ng    | # 79     |
| 91) Benzo(g,h,i)perylene       | 17.50 | 276  | 753548   | 38.16 | ng    | # 76     |

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

