

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\  
 Data File : BF107766.D  
 Acq On : 28 Jul 2018 00:25  
 Operator : JU/SJ  
 Sample : J4184-05MS  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-7BSMS

Manual Integrations  
 APPROVED

Sohil  
 7/30/2018 2:03:23 PM

Quant Time: Jul 28 03:57:29 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 20 16:29:27 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.97  | 152  | 174332   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.25  | 136  | 654617   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 10.01 | 164  | 261380   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.50 | 188  | 440140   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 14.15 | 240  | 415524   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.68 | 264  | 338497   | 20.00 | ng    | -0.02    |

## System Monitoring Compounds

|                          |       |     |         |        |    |       |
|--------------------------|-------|-----|---------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.60  | 112 | 511210  | 47.15  | ng | -0.01 |
| 7) Phenol-d6             | 6.60  | 99  | 403579  | 31.00  | ng | -0.01 |
| 23) Nitrobenzene-d5      | 7.53  | 82  | 1007662 | 103.88 | ng | -0.02 |
| 41) 2,4,6-Tribromophenol | 10.80 | 330 | 382797  | 128.79 | ng | -0.02 |
| 44) 2-Fluorobiphenyl     | 9.32  | 172 | 1790905 | 139.69 | ng | -0.02 |
| 78) Terphenyl-d14        | 13.08 | 244 | 1533192 | 94.46  | ng | -0.02 |

## Target Compounds

|                                |      |     |         |        |    | Qvalue |
|--------------------------------|------|-----|---------|--------|----|--------|
| 2) 1,4-Dioxane                 | 2.85 | 88  | 60205   | 11.929 | ng | 89     |
| 3) Pyridine                    | 3.66 | 79  | 93997   | 6.846  | ng | # 84   |
| 4) n-Nitrosodimethylamine      | 3.64 | 42  | 30941   | 5.343  | ng | # 83   |
| 6) Aniline                     | 6.64 | 93  | 190149  | 11.324 | ng | # 72   |
| 8) 2-Chlorophenol              | 6.75 | 128 | 380630  | 32.766 | ng | 96     |
| 9) Benzaldehyde                | 6.52 | 77  | 273495m | 33.213 | ng |        |
| 10) Phenol                     | 6.61 | 94  | 160289  | 10.468 | ng | 88     |
| 11) bis(2-Chloroethyl)ether    | 6.70 | 93  | 473429  | 37.294 | ng | 95     |
| 12) 1,3-Dichlorobenzene        | 6.90 | 146 | 516997  | 39.254 | ng | 98     |
| 13) 1,4-Dichlorobenzene        | 6.98 | 146 | 564661  | 41.829 | ng | 99     |
| 14) 1,2-Dichlorobenzene        | 7.13 | 146 | 496625  | 40.995 | ng | 99     |
| 15) Benzyl Alcohol             | 7.11 | 79  | 207426  | 23.377 | ng | 97     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.23 | 45  | 739021  | 34.508 | ng | 81     |
| 17) 2-Methylphenol             | 7.22 | 107 | 227585  | 23.050 | ng | # 75   |
| 18) Hexachloroethane           | 7.47 | 117 | 184796  | 39.029 | ng | 98     |
| 19) n-Nitroso-di-n-propylamine | 7.37 | 70  | 331063  | 39.362 | ng | 99     |
| 20) 3+4-Methylphenols          | 7.38 | 107 | 234911  | 20.037 | ng | # 13   |
| 22) Acetophenone               | 7.37 | 105 | 674567  | 43.878 | ng | # 94   |
| 24) Nitrobenzene               | 7.55 | 77  | 449945  | 40.500 | ng | 97     |
| 25) Isophorone                 | 7.78 | 82  | 909012  | 43.891 | ng | 98     |
| 26) 2-Nitrophenol              | 7.87 | 139 | 234761  | 50.039 | ng | 99     |
| 27) 2,4-Dimethylphenol         | 7.90 | 122 | 341003  | 38.398 | ng | 98     |
| 28) bis(2-Chloroethoxy)methane | 7.99 | 93  | 565719  | 40.873 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 8.11 | 162 | 356827  | 39.311 | ng | 99     |
| 30) 1,2,4-Trichlorobenzene     | 8.18 | 180 | 438591  | 43.021 | ng | 97     |
| 31) Naphthalene                | 8.27 | 128 | 2319044 | 80.561 | ng | 98     |
| 32) Benzoic acid               | 7.99 | 122 | 64118   | 16.540 | ng | # 75   |
| 33) 4-Chloroaniline            | 8.33 | 127 | 164420  | 13.068 | ng | # 93   |
| 34) Hexachlorobutadiene        | 8.37 | 225 | 257765  | 42.550 | ng | 98     |
| 35) Caprolactam                | 8.70 | 113 | 16365   | 5.543  | ng | # 86   |
| 36) 4-Chloro-3-methylphenol    | 8.80 | 107 | 342671  | 33.985 | ng | 97     |
| 37) 2-Methylnaphthalene        | 8.96 | 142 | 921409  | 46.191 | ng | 98     |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.12 | 216 | 424777  | 48.724 | ng | # 97   |
| 40) Hexachlorocyclopentadiene  | 9.10 | 237 | 54148   | 12.218 | ng | 98     |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 9.24  | 196  | 230648   | 41.332 | ng    | 99       |
| 43) 2,4,5-Trichlorophenol      | 9.28  | 196  | 267821   | 45.921 | ng    | 96       |
| 45) 1,1'-Biphenyl              | 9.42  | 154  | 1223410  | 53.731 | ng    | 98       |
| 46) 2-Chloronaphthalene        | 9.45  | 162  | 802412   | 46.105 | ng    | 98       |
| 47) 2-Nitroaniline             | 9.55  | 65   | 254503   | 50.159 | ng    | 90       |
| 48) Acenaphthylene             | 9.87  | 152  | 1359055  | 51.982 | ng    | 98       |
| 49) Dimethylphthalate          | 9.72  | 163  | 965164   | 48.995 | ng    | 99       |
| 50) 2,6-Dinitrotoluene         | 9.79  | 165  | 182838   | 46.748 | ng    | # 91     |
| 51) Acenaphthene               | 10.04 | 154  | 946127   | 57.758 | ng    | 99       |
| 52) 3-Nitroaniline             | 9.98  | 138  | 93456    | 19.642 | ng    | 96       |
| 53) 2,4-Dinitrophenol          | 10.10 | 184  | 29054    | 27.381 | ng    | # 74     |
| 54) Dibenzofuran               | 10.21 | 168  | 1051219  | 43.590 | ng    | 99       |
| 55) 4-Nitrophenol              | 10.16 | 139  | 39768    | 11.163 | ng    | # 85     |
| 56) 2,4-Dinitrotoluene         | 10.20 | 165  | 211796   | 44.862 | ng    | # 93     |
| 57) Fluorene                   | 10.55 | 166  | 899564   | 52.286 | ng    | 95       |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.33 | 232  | 200915   | 41.392 | ng    | # 85     |
| 59) Diethylphthalate           | 10.41 | 149  | 912025   | 44.330 | ng    | 99       |
| 60) 4-Chlorophenyl-phenylether | 10.54 | 204  | 414935   | 42.661 | ng    | 93       |
| 61) 4-Nitroaniline             | 10.60 | 138  | 142629   | 35.679 | ng    | 92       |
| 62) Azobenzene                 | 10.70 | 77   | 771457   | 39.989 | ng    | 94       |
| 64) 4,6-Dinitro-2-methylphenol | 10.61 | 198  | 23868    | 17.882 | ng    | 86       |
| 65) n-Nitrosodiphenylamine     | 10.67 | 169  | 711895   | 47.624 | ng    | 98       |
| 66) 4-Bromophenyl-phenylether  | 11.04 | 248  | 232255   | 44.827 | ng    | # 84     |
| 67) Hexachlorobenzene          | 11.10 | 284  | 245903   | 43.134 | ng    | # 90     |
| 68) Atrazine                   | 11.19 | 200  | 199336   | 43.676 | ng    | 96       |
| 69) Pentachlorophenol          | 11.30 | 266  | 221280   | 62.142 | ng    | 99       |
| 70) Phenanthrene               | 11.52 | 178  | 1262276  | 58.852 | ng    | 99       |
| 71) Anthracene                 | 11.58 | 178  | 1174348  | 54.380 | ng    | 99       |
| 72) Carbazole                  | 11.74 | 167  | 1017343  | 45.303 | ng    | 99       |
| 73) Di-n-butylphthalate        | 12.04 | 149  | 1214958  | 56.901 | ng    | 100      |
| 74) Fluoranthene               | 12.72 | 202  | 1171074  | 50.882 | ng    | 94       |
| 76) Benzidine                  | 12.85 | 184  | 575482   | 48.092 | ng    | 97       |
| 77) Pyrene                     | 12.95 | 202  | 1206694  | 42.456 | ng    | 98       |
| 79) Butylbenzylphthalate       | 13.55 | 149  | 513495   | 42.010 | ng    | 92       |
| 80) Benzo(a)anthracene         | 14.14 | 228  | 1070317  | 43.955 | ng    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 14.10 | 252  | 343885   | 48.828 | ng    | # 97     |
| 82) Chrysene                   | 14.18 | 228  | 1115944  | 47.708 | ng    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 14.10 | 149  | 677326   | 39.273 | ng    | 99       |
| 84) Di-n-octyl phthalate       | 14.72 | 149  | 1283646  | 47.883 | ng    | 98       |
| 85) Indeno(1,2,3-cd)pyrene     | 17.27 | 276  | 747057   | 37.683 | ng    | # 93     |
| 87) Benzo(b)fluoranthene       | 15.22 | 252  | 896865   | 48.412 | ng    | 97       |
| 88) Benzo(k)fluoranthene       | 15.25 | 252  | 946114   | 52.128 | ng    | 97       |
| 89) Benzo(a)pyrene             | 15.62 | 252  | 807539   | 47.654 | ng    | 96       |
| 90) Dibenzo(a,h)anthracene     | 17.27 | 278  | 639256   | 43.640 | ng    | # 95     |
| 91) Benzo(g,h,i)perylene       | 17.74 | 276  | 590534   | 40.870 | ng    | # 91     |

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

