

Data Path : \\74.0.250.170\svoasrv\HPCHEM1\BNA F\Data\BF110117\  
 Data File : BF100069.D  
 Acq On : 2 Nov 2017 3:09  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Nov 02 14:36:04 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Nov 02 14:34:05 2017  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                     | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|------------------------------|--------|--------|-------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4       | 20.000 | 20.000 | 0.0   | 86    | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 35.920 | 10.2  | 76    | -0.01    |
| 3    | Pyridine                     | 40.000 | 37.787 | 5.5   | 75    | -0.01    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 38.468 | 3.8   | 75    | 0.00     |
| 5 S  | 2-Fluorophenol               | 80.000 | 78.658 | 1.7   | 82    | 0.00     |
| 6    | Aniline                      | 40.000 | 37.871 | 5.3   | 80    | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 76.186 | 4.8   | 81    | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 39.384 | 1.5   | 82    | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 36.676 | 8.3   | 77    | 0.00     |
| 10 C | Phenol                       | 40.000 | 37.363 | 6.6   | 78    | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 38.817 | 3.0   | 80    | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 38.878 | 2.8   | 82    | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 39.178 | 2.1   | 83    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 38.936 | 2.7   | 83    | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 37.773 | 5.6   | 81    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 37.617 | 6.0   | 79    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 38.314 | 4.2   | 81    | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 31.663 | 20.8  | 67    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 38.305 | 4.2   | 83    | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 40.148 | -0.4  | 87    | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 85    | 0.00     |
| 22   | Acetophenone                 | 40.000 | 38.548 | 3.6   | 83    | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 74.408 | 7.0   | 79    | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 37.187 | 7.0   | 77    | 0.00     |
| 25   | Isophorone                   | 40.000 | 37.174 | 7.1   | 78    | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 36.019 | 10.0  | 72    | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 38.992 | 2.5   | 82    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 38.139 | 4.7   | 81    | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 39.234 | 1.9   | 82    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 37.930 | 5.2   | 79    | 0.00     |
| 31   | Naphthalene                  | 40.000 | 37.455 | 6.4   | 80    | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 32.630 | 18.4  | 70    | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 38.334 | 4.2   | 80    | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 39.105 | 2.2   | 84    | 0.00     |
| 35   | Caprolactam                  | 40.000 | 38.387 | 4.0   | 79    | 0.01     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 36.623 | 8.4   | 77    | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 37.374 | 6.6   | 80    | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 79    | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 39.902 | 0.2   | 79    | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 10.139 | 74.7# | 0     | -0.08    |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 68.262 | 14.7  | 68    | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 39.965 | 0.1   | 80    | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 38.996 | 2.5   | 74    | 0.00     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 81.672 | -2.1  | 79    | 0.00     |

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                   | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|----------------------------|--------|--------|--------|-------|----------|
| 45   | 1,1'-Biphenyl              | 40.000 | 39.282 | 1.8    | 79    | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 37.863 | 5.3    | 75    | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 38.414 | 4.0    | 74    | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 37.325 | 6.7    | 75    | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 38.257 | 4.4    | 76    | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 36.690 | 8.3    | 71    | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 37.764 | 5.6    | 76    | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 39.288 | 1.8    | 77    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 7.888  | 80.3#  | 5     | 0.03     |
| 54   | Dibenzofuran               | 40.000 | 37.993 | 5.0    | 77    | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 28.061 | 29.8#  | 52    | 0.01     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 36.792 | 8.0    | 72    | 0.00     |
| 57   | Fluorene                   | 40.000 | 36.314 | 9.2    | 73    | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 36.440 | 8.9    | 70    | 0.01     |
| 59   | Diethylphthalate           | 40.000 | 38.549 | 3.6    | 77    | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 37.786 | 5.5    | 76    | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 36.814 | 8.0    | 71    | 0.00     |
| 62   | Azobenzene                 | 40.000 | 35.175 | 12.1   | 69    | 0.01     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 66    | 0.01     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 4.911  | 87.7#  | 8     | 0.01     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 43.650 | -9.1   | 74    | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 43.295 | -8.2   | 73    | 0.01     |
| 67   | Hexachlorobenzene          | 40.000 | 39.676 | 0.8    | 66    | 0.01     |
| 68   | Atrazine                   | 40.000 | 39.464 | 1.3    | 65    | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 62.735 | -56.8# | 105   | 0.01     |
| 70   | Phenanthrene               | 40.000 | 37.280 | 6.8    | 63    | 0.01     |
| 71   | Anthracene                 | 40.000 | 37.473 | 6.3    | 64    | 0.01     |
| 72   | Carbazole                  | 40.000 | 36.283 | 9.3    | 61    | 0.02     |
| 73   | Di-n-butylphthalate        | 40.000 | 42.918 | -7.3   | 71    | 0.03     |
| 74 C | Fluoranthene               | 40.000 | 33.312 | 16.7   | 56    | 0.08     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 62    | 0.35     |
| 76   | Benzidine                  | 40.000 | 35.253 | 11.9   | 56    | 0.09     |
| 77   | Pyrene                     | 40.000 | 35.708 | 10.7   | 55    | 0.10     |
| 78 S | Terphenyl-d14              | 80.000 | 76.029 | 5.0    | 60    | 0.12     |
| 79   | Butylbenzylphthalate       | 40.000 | 37.546 | 6.1    | 56    | 0.22     |
| 80   | Benzo(a)anthracene         | 40.000 | 36.121 | 9.7    | 55    | 0.35     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 41.114 | -2.8   | 63    | 0.34     |
| 82   | Chrysene                   | 40.000 | 37.286 | 6.8    | 57    | 0.35     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 39.742 | 0.6    | 62    | 0.37     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 39.418 | 1.5    | 60    | 0.58#    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 32.953 | 17.6   | 53    | 0.84#    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 64    | 0.75#    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 37.042 | 7.4    | 62    | 0.67#    |

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|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 39.612 | 1.0  | 60    | 0.68#    |
| 89 C | Benzo(a)pyrene         | 40.000 | 37.508 | 6.2  | 60    | 0.73#    |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 33.223 | 16.9 | 55    | 0.84#    |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 30.449 | 23.9 | 50    | 0.85#    |

(#) = Out of Range

SPCC's out = 0 CCC's out = 1