

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012717\  
 Data File : BF092607.D  
 Acq On : 28 Jan 2017 6:06  
 Operator : SJ/MA  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jan 29 23:55:50 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF012417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 24 13:48:07 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   | 106   | 0.01     |
| 2    | 1,4-Dioxane                  | 40.000 | 36.526 | 8.7   | 98    | -0.02    |
| 3    | Pyridine                     | 40.000 | 36.300 | 9.3   | 98    | 0.00     |
| 4    | n-Nitrosodimethylamine       | 40.000 | 35.246 | 11.9  | 94    | 0.01     |
| 5 S  | 2-Fluorophenol               | 80.000 | 73.301 | 8.4   | 100   | 0.03     |
| 6    | Aniline                      | 40.000 | 30.927 | 22.7  | 81    | 0.01     |
| 7 S  | Phenol-d6                    | 80.000 | 73.108 | 8.6   | 98    | 0.03     |
| 8    | 2-Chlorophenol               | 40.000 | 36.402 | 9.0   | 96    | 0.01     |
| 9    | Benzaldehyde                 | 40.000 | 35.292 | 11.8  | 97    | 0.01     |
| 10 C | Phenol                       | 40.000 | 35.087 | 12.3  | 90    | 0.03     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 35.311 | 11.7  | 89    | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 38.155 | 4.6   | 101   | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 37.295 | 6.8   | 95    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 39.613 | 1.0   | 112   | 0.01     |
| 15   | Benzyl Alcohol               | 40.000 | 32.248 | 19.4  | 85    | 0.01     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 31.968 | 20.1  | 86    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 35.513 | 11.2  | 93    | 0.02     |
| 18   | Hexachloroethane             | 40.000 | 28.181 | 29.5# | 73    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 30.902 | 22.7  | 84    | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 37.118 | 7.2   | 93    | 0.02     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 97    | 0.00     |
| 22   | Acetophenone                 | 40.000 | 41.209 | -3.0  | 100   | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 79.660 | 0.4   | 97    | 0.01     |
| 24   | Nitrobenzene                 | 40.000 | 34.095 | 14.8  | 77    | 0.00     |
| 25   | Isophorone                   | 40.000 | 35.040 | 12.4  | 86    | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 23.660 | 40.8# | 59    | 0.01     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 36.897 | 7.8   | 91    | 0.01     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 39.786 | 0.5   | 104   | 0.01     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 38.178 | 4.6   | 94    | 0.02     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 40.301 | -0.8  | 104   | 0.01     |
| 31   | Naphthalene                  | 40.000 | 38.329 | 4.2   | 98    | 0.01     |
| 32   | Benzoic acid                 | 40.000 | 12.932 | 67.7# | 22    | -0.03    |
| 33   | 4-Chloroaniline              | 40.000 | 34.928 | 12.7  | 90    | 0.01     |
| 34 C | Hexachlorobutadiene          | 40.000 | 39.912 | 0.2   | 98    | 0.00     |
| 35   | Caprolactam                  | 40.000 | 31.166 | 22.1  | 74    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 34.707 | 13.2  | 81    | 0.02     |
| 37   | 2-Methylnaphthalene          | 40.000 | 38.381 | 4.0   | 101   | 0.01     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 80    | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 45.000 | -12.5 | 86    | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 4.245  | 89.4# | 8     | 0.00     |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 73.519 | 8.1   | 72    | 0.01     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 38.147 | 4.6   | 76    | 0.01     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 39.200 | 2.0   | 73    | 0.02     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 97.208 | -21.5 | 92    | 0.00     |

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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) |
|------|----------------------------|--------|--------|--------|-------|----------|
| 45   | 1,1'-Biphenyl              | 40.000 | 44.785 | -12.0  | 96    | 0.01     |
| 46   | 2-Chloronaphthalene        | 40.000 | 44.391 | -11.0  | 89    | 0.01     |
| 47   | 2-Nitroaniline             | 40.000 | 40.470 | -1.2   | 80    | 0.01     |
| 48   | Acenaphthylene             | 40.000 | 39.394 | 1.5    | 77    | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 48.746 | -21.9  | 92    | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 33.406 | 16.5   | 58    | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 36.272 | 9.3    | 77    | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 52.308 | -30.8# | 86    | 0.01     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 3.342  | 91.6#  | 1     | 0.00     |
| 54   | Dibenzofuran               | 40.000 | 37.628 | 5.9    | 78    | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 23.922 | 40.2#  | 41    | 0.03     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 31.042 | 22.4   | 62    | 0.01     |
| 57   | Fluorene                   | 40.000 | 38.130 | 4.7    | 80    | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 36.105 | 9.7    | 71    | 0.01     |
| 59   | Diethylphthalate           | 40.000 | 43.124 | -7.8   | 87    | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 43.086 | -7.7   | 84    | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 41.079 | -2.7   | 78    | 0.00     |
| 62   | Azobenzene                 | 40.000 | 35.328 | 11.7   | 66    | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 66    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 5.871  | 85.3#  | 2     | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 44.841 | -12.1  | 80    | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 45.147 | -12.9  | 77    | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 42.263 | -5.7   | 75    | 0.00     |
| 68   | Atrazine                   | 40.000 | 40.472 | -1.2   | 65    | -0.01    |
| 69 C | Pentachlorophenol          | 40.000 | 21.860 | 45.4#  | 35    | 0.01     |
| 70   | Phenanthrene               | 40.000 | 41.981 | -5.0   | 72    | 0.00     |
| 71   | Anthracene                 | 40.000 | 40.952 | -2.4   | 71    | 0.00     |
| 72   | Carbazole                  | 40.000 | 38.013 | 5.0    | 63    | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 46.650 | -16.6  | 81    | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 40.316 | -0.8   | 71    | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 63    | 0.00     |
| 76   | Benzidine                  | 40.000 | 37.147 | 7.1    | 56    | 0.00     |
| 77   | Pyrene                     | 40.000 | 39.079 | 2.3    | 70    | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 92.177 | -15.2  | 83    | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 45.770 | -14.4  | 69    | -0.01    |
| 80   | Benzo(a)anthracene         | 40.000 | 44.012 | -10.0  | 74    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 44.570 | -11.4  | 69    | 0.00     |
| 82   | Chrysene                   | 40.000 | 41.469 | -3.7   | 72    | 0.01     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 53.446 | -33.6# | 86    | -0.01    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 49.895 | -24.7# | 74    | -0.01    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 39.677 | 0.8    | 65    | 0.03     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 58    | 0.01     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 37.001 | 7.5    | 52    | 0.01     |

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|------|------------------------|--------|--------|-------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 45.700 | -14.3 | 74    | 0.01     |
| 89 C | Benzo(a)pyrene         | 40.000 | 39.971 | 0.1   | 58    | 0.01     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 42.804 | -7.0  | 64    | 0.02     |
| 91   | Benzo(g,h,i)perylene   | 40.000 | 42.162 | -5.4  | 66    | 0.02     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 3