

Data Path : Z:\HPCHEM1\BNA F\Data\BF021418\  
 Data File : BF103004.D  
 Acq On : 14 Feb 2018 22:51  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Feb 15 00:10:24 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 05 00:38:27 2018  
 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   | 78    | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 41.401 | -3.5  | 79    | -0.03    |
| 3    | Pyridine                     | 40.000 | 40.318 | -0.8  | 76    | -0.01    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 37.859 | 5.4   | 72    | -0.02    |
| 5 S  | 2-Fluorophenol               | 80.000 | 77.778 | 2.8   | 76    | 0.00     |
| 6    | Aniline                      | 40.000 | 37.286 | 6.8   | 73    | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 75.021 | 6.2   | 74    | 0.01     |
| 8    | 2-Chlorophenol               | 40.000 | 38.181 | 4.5   | 74    | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 33.364 | 16.6  | 65    | 0.00     |
| 10 C | Phenol                       | 40.000 | 40.576 | -1.4  | 81    | 0.01     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 38.336 | 4.2   | 75    | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 38.219 | 4.5   | 75    | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 38.139 | 4.7   | 75    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 37.915 | 5.2   | 74    | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 36.997 | 7.5   | 71    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 34.986 | 12.5  | 68    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 36.395 | 9.0   | 71    | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 31.676 | 20.8  | 60    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 34.111 | 14.7  | 68    | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 34.390 | 14.0  | 66    | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 70    | 0.00     |
| 22   | Acetophenone                 | 40.000 | 38.187 | 4.5   | 69    | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 92.839 | -16.0 | 78    | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 43.638 | -9.1  | 74    | 0.00     |
| 25   | Isophorone                   | 40.000 | 36.726 | 8.2   | 65    | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 33.002 | 17.5  | 59    | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 36.620 | 8.5   | 64    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 40.489 | -1.2  | 71    | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 36.399 | 9.0   | 62    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 37.784 | 5.5   | 67    | 0.00     |
| 31   | Naphthalene                  | 40.000 | 37.334 | 6.7   | 66    | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 16.858 | 57.9# | 18    | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 37.024 | 7.4   | 65    | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 39.513 | 1.2   | 69    | 0.00     |
| 35   | Caprolactam                  | 40.000 | 30.994 | 22.5  | 53    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 33.307 | 16.7  | 57    | 0.01     |
| 37   | 2-Methylnaphthalene          | 40.000 | 35.115 | 12.2  | 62    | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 55    | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 45.115 | -12.8 | 62    | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 1.255  | 96.9# | 2     | 0.00     |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 74.900 | 6.4   | 48    | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 39.583 | 1.0   | 52    | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 38.405 | 4.0   | 49    | 0.01     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 91.248 | -14.1 | 62    | 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 | 43.191 | -8.0   | 60    | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 41.776 | -4.4   | 58    | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 46.533 | -16.3  | 65    | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 38.569 | 3.6    | 54    | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 41.683 | -4.2   | 58    | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 38.685 | 3.3    | 50    | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 36.935 | 7.7    | 52    | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 44.696 | -11.7  | 59    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 0.000  | 100.0# | 0     | -9.96#   |
| 54   | Dibenzofuran               | 40.000 | 37.167 | 7.1    | 52    | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 28.657 | 28.4#  | 38    | 0.02     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 32.293 | 19.3   | 44    | 0.00     |
| 57   | Fluorene                   | 40.000 | 37.178 | 7.1    | 51    | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 35.207 | 12.0   | 46    | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 38.098 | 4.8    | 53    | -0.01    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 39.524 | 1.2    | 54    | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 45.877 | -14.7  | 61    | 0.00     |
| 62   | Azobenzene                 | 40.000 | 34.524 | 13.7   | 48    | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 47    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 9.364  | 76.6#  | 1     | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 41.467 | -3.7   | 49    | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 38.721 | 3.2    | 46    | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 38.041 | 4.9    | 45    | 0.00     |
| 68   | Atrazine                   | 40.000 | 36.954 | 7.6    | 43    | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 27.176 | 32.1#  | 31    | 0.01     |
| 70   | Phenanthrene               | 40.000 | 38.488 | 3.8    | 46    | 0.00     |
| 71   | Anthracene                 | 40.000 | 38.744 | 3.1    | 47    | 0.00     |
| 72   | Carbazole                  | 40.000 | 39.123 | 2.2    | 47    | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 40.701 | -1.8   | 48    | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 41.505 | -3.8   | 50    | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 61    | 0.01     |
| 76   | Benzidine                  | 40.000 | 28.181 | 29.5#  | 40    | 0.00     |
| 77   | Pyrene                     | 40.000 | 33.749 | 15.6   | 52    | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 67.691 | 15.4   | 53    | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 36.913 | 7.7    | 56    | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 39.102 | 2.2    | 61    | 0.01     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 40.211 | -0.5   | 59    | 0.00     |
| 82   | Chrysene                   | 40.000 | 37.866 | 5.3    | 59    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 41.368 | -3.4   | 62    | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 46.638 | -16.6  | 69    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 32.417 | 19.0   | 54    | 0.04     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 56    | 0.02     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 39.897 | 0.3    | 54    | 0.01     |

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|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 41.671 | -4.2 | 57    | 0.01     |
| 89 C | Benzo(a)pyrene         | 40.000 | 38.934 | 2.7  | 54    | 0.02     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 38.561 | 3.6  | 54    | 0.03     |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 37.867 | 5.3  | 54    | 0.04     |

(#) = Out of Range

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