

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011916\  
 Data File : BF084544.D  
 Acq On : 19 Jan 2016 9:30  
 Operator : SJ/UM  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jan 19 17:20:45 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF123115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 19 17:05:27 2016  
 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    | -0.03    |
| 2    | 1,4-Dioxane                  | 40.000 | 39.530 | 1.2   | 81    | -0.05    |
| 3    | Pyridine                     | 40.000 | 34.208 | 14.5  | 67    | -0.08    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 31.703 | 20.7  | 64    | -0.06    |
| 5 S  | 2-Fluorophenol               | 80.000 | 73.679 | 7.9   | 84    | -0.05    |
| 6    | Aniline                      | 40.000 | 36.877 | 7.8   | 77    | -0.03    |
| 7 S  | Phenol-d6                    | 80.000 | 76.270 | 4.7   | 81    | -0.03    |
| 8    | 2-Chlorophenol               | 40.000 | 38.786 | 3.0   | 84    | -0.05    |
| 9    | Benzaldehyde                 | 40.000 | 34.933 | 12.7  | 75    | -0.05    |
| 10 C | Phenol                       | 40.000 | 35.368 | 11.6  | 70    | -0.05    |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 39.829 | 0.4   | 89    | -0.05    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 40.791 | -2.0  | 90    | -0.03    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 39.499 | 1.3   | 81    | -0.03    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 38.822 | 2.9   | 89    | -0.03    |
| 15   | Benzyl Alcohol               | 40.000 | 33.411 | 16.5  | 68    | -0.03    |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 33.136 | 17.2  | 73    | -0.03    |
| 17   | 2-Methylphenol               | 40.000 | 40.281 | -0.7  | 81    | -0.03    |
| 18   | Hexachloroethane             | 40.000 | 40.565 | -1.4  | 84    | -0.03    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 37.871 | 5.3   | 83    | -0.03    |
| 20   | 3+4-Methylphenols            | 40.000 | 35.709 | 10.7  | 82    | -0.03    |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 84    | -0.03    |
| 22   | Acetophenone                 | 40.000 | 40.506 | -1.3  | 80    | -0.03    |
| 23 S | Nitrobenzene-d5              | 80.000 | 71.881 | 10.1  | 77    | -0.03    |
| 24   | Nitrobenzene                 | 40.000 | 43.969 | -9.9  | 83    | -0.03    |
| 25   | Isophorone                   | 40.000 | 39.143 | 2.1   | 82    | -0.03    |
| 26 C | 2-Nitrophenol                | 40.000 | 40.829 | -2.1  | 87    | -0.05    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 36.774 | 8.1   | 72    | -0.03    |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 39.941 | 0.1   | 90    | -0.03    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 41.703 | -4.3  | 89    | -0.03    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 42.291 | -5.7  | 85    | -0.03    |
| 31   | Naphthalene                  | 40.000 | 43.000 | -7.5  | 91    | -0.03    |
| 32   | Benzoic acid                 | 40.000 | 40.416 | -1.0  | 86    | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 37.854 | 5.4   | 82    | -0.05    |
| 34 C | Hexachlorobutadiene          | 40.000 | 38.868 | 2.8   | 81    | -0.03    |
| 35   | Caprolactam                  | 40.000 | 43.260 | -8.1  | 80    | -0.01    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 38.344 | 4.1   | 84    | -0.03    |
| 37   | 2-Methylnaphthalene          | 40.000 | 36.336 | 9.2   | 79    | -0.03    |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 78    | -0.03    |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 45.760 | -14.4 | 89    | -0.03    |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 38.691 | 3.3   | 74    | -0.03    |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 86.851 | -8.6  | 80    | -0.03    |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 40.483 | -1.2  | 81    | -0.03    |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 42.830 | -7.1  | 81    | -0.03    |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 81.244 | -1.6  | 78    | -0.03    |

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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 | 41.368 | -3.4   | 87    | -0.03    |
| 46   | 2-Chloronaphthalene        | 40.000 | 39.787 | 0.5    | 86    | -0.03    |
| 47   | 2-Nitroaniline             | 40.000 | 48.650 | -21.6  | 99    | -0.03    |
| 48   | Acenaphthylene             | 40.000 | 38.810 | 3.0    | 72    | -0.03    |
| 49   | Dimethylphthalate          | 40.000 | 40.057 | -0.1   | 75    | -0.03    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 39.280 | 1.8    | 69    | -0.03    |
| 51 C | Acenaphthene               | 40.000 | 41.667 | -4.2   | 76    | -0.03    |
| 52   | 3-Nitroaniline             | 40.000 | 41.454 | -3.6   | 75    | -0.03    |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 62.329 | -55.8# | 121   | -0.03    |
| 54   | Dibenzofuran               | 40.000 | 40.148 | -0.4   | 73    | -0.03    |
| 55 P | 4-Nitrophenol              | 40.000 | 44.427 | -11.1  | 72    | -0.03    |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 41.487 | -3.7   | 69    | -0.03    |
| 57   | Fluorene                   | 40.000 | 37.736 | 5.7    | 70    | -0.03    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 43.247 | -8.1   | 80    | -0.03    |
| 59   | Diethylphthalate           | 40.000 | 43.329 | -8.3   | 83    | -0.03    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 51.156 | -27.9# | 91    | -0.03    |
| 61   | 4-Nitroaniline             | 40.000 | 47.211 | -18.0  | 94    | -0.02    |
| 62   | Azobenzene                 | 40.000 | 42.590 | -6.5   | 82    | -0.03    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 85    | -0.03    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 42.065 | -5.2   | 96    | -0.03    |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 37.357 | 6.6    | 79    | -0.03    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 40.100 | -0.3   | 80    | -0.03    |
| 67   | Hexachlorobenzene          | 40.000 | 38.290 | 4.3    | 86    | -0.03    |
| 68   | Atrazine                   | 40.000 | 39.482 | 1.3    | 74    | -0.03    |
| 69 C | Pentachlorophenol          | 40.000 | 39.107 | 2.2    | 73    | -0.03    |
| 70   | Phenanthrene               | 40.000 | 36.758 | 8.1    | 71    | -0.03    |
| 71   | Anthracene                 | 40.000 | 43.998 | -10.0  | 97    | -0.03    |
| 72   | Carbazole                  | 40.000 | 39.572 | 1.1    | 80    | -0.05    |
| 73   | Di-n-butylphthalate        | 40.000 | 45.756 | -14.4  | 90    | -0.03    |
| 74 C | Fluoranthene               | 40.000 | 40.544 | -1.4   | 89    | -0.03    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 86    | -0.03    |
| 76   | Benzidine                  | 40.000 | 39.910 | 0.2    | 85    | -0.03    |
| 77   | Pyrene                     | 40.000 | 36.958 | 7.6    | 90    | -0.03    |
| 78 S | Terphenyl-d14              | 80.000 | 69.769 | 12.8   | 87    | -0.03    |
| 79   | Butylbenzylphthalate       | 40.000 | 37.480 | 6.3    | 79    | -0.03    |
| 80   | Benzo(a)anthracene         | 40.000 | 36.791 | 8.0    | 84    | -0.03    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 44.640 | -11.6  | 95    | -0.03    |
| 82   | Chrysene                   | 40.000 | 36.697 | 8.3    | 80    | -0.03    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 36.365 | 9.1    | 82    | -0.03    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 35.149 | 12.1   | 72    | -0.03    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 37.636 | 5.9    | 83    | -0.07    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 86    | -0.05    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 39.133 | 2.2    | 80    | -0.05    |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 43.368 | -8.4 | 93    | -0.05    |
| 89 C | Benzo(a)pyrene         | 40.000 | 41.933 | -4.8 | 86    | -0.05    |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 36.761 | 8.1  | 82    | -0.07    |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 36.106 | 9.7  | 83    | -0.08    |

(#) = Out of Range

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