

Data Path : Z:\HPCHEM1\BNA F\Data\BF021418\  
 Data File : BF102977.D  
 Acq On : 14 Feb 2018 9:39  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Feb 14 12:37:05 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    | 84    | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 40.048 | -0.1   | 82    | -0.01    |
| 3    | Pyridine                     | 40.000 | 39.780 | 0.5    | 80    | 0.00     |
| 4    | n-Nitrosodimethylamine       | 40.000 | 38.432 | 3.9    | 78    | 0.00     |
| 5 S  | 2-Fluorophenol               | 80.000 | 78.171 | 2.3    | 82    | 0.00     |
| 6    | Aniline                      | 40.000 | 38.729 | 3.2    | 81    | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 78.374 | 2.0    | 82    | 0.01     |
| 8    | 2-Chlorophenol               | 40.000 | 39.907 | 0.2    | 83    | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 34.008 | 15.0   | 71    | 0.00     |
| 10 C | Phenol                       | 40.000 | 43.175 | -7.9   | 92    | 0.01     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 38.543 | 3.6    | 81    | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 38.465 | 3.8    | 81    | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 38.306 | 4.2    | 81    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 38.125 | 4.7    | 80    | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 40.231 | -0.6   | 82    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 36.239 | 9.4    | 75    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 38.836 | 2.9    | 81    | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 41.243 | -3.1   | 84    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 36.547 | 8.6    | 78    | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 37.533 | 6.2    | 77    | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0    | 84    | 0.00     |
| 22   | Acetophenone                 | 40.000 | 36.013 | 10.0   | 78    | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 90.785 | -13.5  | 92    | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 42.420 | -6.1   | 87    | 0.00     |
| 25   | Isophorone                   | 40.000 | 37.681 | 5.8    | 81    | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 51.466 | -28.7# | 125   | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 37.080 | 7.3    | 78    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 38.403 | 4.0    | 82    | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 40.261 | -0.7   | 83    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 37.846 | 5.4    | 81    | 0.00     |
| 31   | Naphthalene                  | 40.000 | 37.534 | 6.2    | 80    | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 47.511 | -18.8  | 114   | 0.02     |
| 33   | 4-Chloroaniline              | 40.000 | 38.250 | 4.4    | 81    | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 37.750 | 5.6    | 80    | 0.00     |
| 35   | Caprolactam                  | 40.000 | 41.809 | -4.5   | 86    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 40.313 | -0.8   | 84    | 0.01     |
| 37   | 2-Methylnaphthalene          | 40.000 | 37.431 | 6.4    | 80    | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0    | 85    | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 38.509 | 3.7    | 83    | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 34.520 | 13.7   | 68    | 0.00     |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 87.769 | -9.7   | 88    | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 41.332 | -3.3   | 84    | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 41.400 | -3.5   | 83    | 0.01     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 75.114 | 6.1    | 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 | 37.156 | 7.1    | 81    | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 37.621 | 5.9    | 81    | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 46.750 | -16.9  | 102   | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 37.755 | 5.6    | 82    | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 39.096 | 2.3    | 85    | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 45.335 | -13.3  | 92    | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 36.739 | 8.2    | 80    | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 45.676 | -14.2  | 93    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 61.723 | -54.3# | 194   | 0.02     |
| 54   | Dibenzofuran               | 40.000 | 37.606 | 6.0    | 82    | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 41.758 | -4.4   | 91    | 0.02     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 45.354 | -13.4  | 98    | 0.00     |
| 57   | Fluorene                   | 40.000 | 39.915 | 0.2    | 84    | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 41.499 | -3.7   | 84    | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 38.673 | 3.3    | 83    | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 39.728 | 0.7    | 85    | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 48.785 | -22.0  | 101   | 0.00     |
| 62   | Azobenzene                 | 40.000 | 38.889 | 2.8    | 84    | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 89    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 56.280 | -40.7# | 153   | 0.01     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 37.237 | 6.9    | 83    | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 37.428 | 6.4    | 84    | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 37.648 | 5.9    | 85    | 0.00     |
| 68   | Atrazine                   | 40.000 | 38.793 | 3.0    | 85    | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 37.250 | 6.9    | 79    | 0.01     |
| 70   | Phenanthrene               | 40.000 | 37.112 | 7.2    | 84    | 0.00     |
| 71   | Anthracene                 | 40.000 | 36.899 | 7.8    | 84    | 0.00     |
| 72   | Carbazole                  | 40.000 | 38.000 | 5.0    | 86    | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 40.221 | -0.6   | 89    | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 38.035 | 4.9    | 86    | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 98    | 0.01     |
| 76   | Benzidine                  | 40.000 | 32.871 | 17.8   | 75    | 0.00     |
| 77   | Pyrene                     | 40.000 | 36.207 | 9.5    | 89    | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 69.494 | 13.1   | 87    | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 41.191 | -3.0   | 100   | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 39.050 | 2.4    | 97    | 0.01     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 39.782 | 0.5    | 93    | 0.00     |
| 82   | Chrysene                   | 40.000 | 37.109 | 7.2    | 93    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 44.037 | -10.1  | 106   | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 46.492 | -16.2  | 110   | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 39.897 | 0.3    | 106   | 0.04     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 110   | 0.02     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 37.345 | 6.6    | 101   | 0.01     |

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|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 37.904 | 5.2  | 103   | 0.01     |
| 89 C | Benzo(a)pyrene         | 40.000 | 38.588 | 3.5  | 105   | 0.02     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 37.847 | 5.4  | 105   | 0.04     |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 38.463 | 3.8  | 108   | 0.05     |

(#) = Out of Range

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