

Data Path : Z:\HPCHEM1\BNA F\Data\BF081017\  
 Data File : BF097585.D  
 Acq On : 11 Aug 2017 4:22  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Aug 11 07:56:35 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 07 16:02:51 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    | -0.02    |
| 2    | 1,4-Dioxane                  | 40.000 | 40.666 | -1.7   | 96    | -0.06    |
| 3    | Pyridine                     | 40.000 | 41.621 | -4.1   | 82    | -0.06    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 41.889 | -4.7   | 88    | -0.06    |
| 5 S  | 2-Fluorophenol               | 80.000 | 85.777 | -7.2   | 96    | -0.02    |
| 6    | Aniline                      | 40.000 | 44.620 | -11.5  | 95    | -0.02    |
| 7 S  | Phenol-d6                    | 80.000 | 82.509 | -3.1   | 89    | -0.01    |
| 8    | 2-Chlorophenol               | 40.000 | 42.733 | -6.8   | 93    | -0.02    |
| 9    | Benzaldehyde                 | 40.000 | 52.972 | -32.4# | 118   | -0.02    |
| 10 C | Phenol                       | 40.000 | 43.389 | -8.5   | 92    | -0.01    |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 41.574 | -3.9   | 89    | -0.02    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 40.064 | -0.2   | 87    | -0.02    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 42.235 | -5.6   | 97    | -0.02    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 40.201 | -0.5   | 91    | -0.02    |
| 15   | Benzyl Alcohol               | 40.000 | 48.297 | -20.7  | 113   | -0.01    |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 41.895 | -4.7   | 97    | -0.02    |
| 17   | 2-Methylphenol               | 40.000 | 42.665 | -6.7   | 98    | -0.02    |
| 18   | Hexachloroethane             | 40.000 | 40.341 | -0.9   | 91    | -0.02    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 45.109 | -12.8  | 105   | -0.02    |
| 20   | 3+4-Methylphenols            | 40.000 | 46.312 | -15.8  | 107   | -0.01    |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0    | 87    | -0.02    |
| 22   | Acetophenone                 | 40.000 | 43.469 | -8.7   | 97    | -0.02    |
| 23 S | Nitrobenzene-d5              | 80.000 | 84.597 | -5.7   | 95    | -0.02    |
| 24   | Nitrobenzene                 | 40.000 | 44.628 | -11.6  | 97    | -0.02    |
| 25   | Isophorone                   | 40.000 | 35.241 | 11.9   | 80    | -0.02    |
| 26 C | 2-Nitrophenol                | 40.000 | 40.675 | -1.7   | 88    | -0.02    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 39.570 | 1.1    | 83    | -0.02    |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 39.603 | 1.0    | 86    | -0.02    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 42.982 | -7.5   | 90    | -0.02    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 39.066 | 2.3    | 87    | -0.02    |
| 31   | Naphthalene                  | 40.000 | 39.521 | 1.2    | 90    | -0.02    |
| 32   | Benzoic acid                 | 40.000 | 32.019 | 20.0   | 66    | -0.02    |
| 33   | 4-Chloroaniline              | 40.000 | 42.510 | -6.3   | 90    | -0.01    |
| 34 C | Hexachlorobutadiene          | 40.000 | 40.691 | -1.7   | 90    | -0.02    |
| 35   | Caprolactam                  | 40.000 | 34.387 | 14.0   | 72    | -0.02    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 37.022 | 7.4    | 79    | -0.01    |
| 37   | 2-Methylnaphthalene          | 40.000 | 35.515 | 11.2   | 77    | -0.02    |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0    | 70    | -0.02    |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 45.005 | -12.5  | 77    | -0.02    |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 12.921 | 67.7#  | 13    | -0.02    |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 75.467 | 5.7    | 69    | -0.02    |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 41.920 | -4.8   | 71    | -0.02    |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 37.589 | 6.0    | 64    | -0.01    |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 85.217 | -6.5   | 74    | -0.02    |

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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 | 42.763 | -6.9    | 74    | -0.02    |
| 46   | 2-Chloronaphthalene        | 40.000 | 42.977 | -7.4    | 75    | -0.02    |
| 47   | 2-Nitroaniline             | 40.000 | 44.246 | -10.6   | 71    | -0.01    |
| 48   | Acenaphthylene             | 40.000 | 42.353 | -5.9    | 79    | -0.02    |
| 49   | Dimethylphthalate          | 40.000 | 41.827 | -4.6    | 78    | -0.02    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 41.161 | -2.9    | 74    | -0.02    |
| 51 C | Acenaphthene               | 40.000 | 41.690 | -4.2    | 77    | -0.02    |
| 52   | 3-Nitroaniline             | 40.000 | 38.566 | 3.6     | 71    | -0.02    |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 2.715  | 93.2#   | 5     | 0.02     |
| 54   | Dibenzofuran               | 40.000 | 40.475 | -1.2    | 74    | -0.02    |
| 55 P | 4-Nitrophenol              | 40.000 | 33.138 | 17.2    | 55    | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 42.688 | -6.7    | 78    | -0.02    |
| 57   | Fluorene                   | 40.000 | 45.145 | -12.9   | 81    | -0.02    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 35.328 | 11.7    | 63    | -0.02    |
| 59   | Diethylphthalate           | 40.000 | 48.302 | -20.8   | 90    | -0.02    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 46.711 | -16.8   | 84    | -0.02    |
| 61   | 4-Nitroaniline             | 40.000 | 41.947 | -4.9    | 74    | -0.02    |
| 62   | Azobenzene                 | 40.000 | 47.797 | -19.5   | 80    | -0.02    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0     | 61    | -0.02    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 13.033 | 67.4#   | 19    | -0.01    |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 49.045 | -22.6#  | 83    | -0.02    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 46.221 | -15.6   | 76    | -0.02    |
| 67   | Hexachlorobenzene          | 40.000 | 42.361 | -5.9    | 71    | -0.02    |
| 68   | Atrazine                   | 40.000 | 40.357 | -0.9    | 69    | -0.02    |
| 69 C | Pentachlorophenol          | 40.000 | 90.171 | -125.4# | 136   | -0.02    |
| 70   | Phenanthrene               | 40.000 | 40.940 | -2.3    | 67    | -0.02    |
| 71   | Anthracene                 | 40.000 | 40.379 | -0.9    | 66    | -0.02    |
| 72   | Carbazole                  | 40.000 | 39.846 | 0.4     | 67    | -0.02    |
| 73   | Di-n-butylphthalate        | 40.000 | 44.143 | -10.4   | 73    | -0.02    |
| 74 C | Fluoranthene               | 40.000 | 38.726 | 3.2     | 67    | -0.02    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0     | 77    | -0.02    |
| 76   | Benzidine                  | 40.000 | 29.853 | 25.4#   | 53    | -0.01    |
| 77   | Pyrene                     | 40.000 | 33.840 | 15.4    | 69    | -0.02    |
| 78 S | Terphenyl-d14              | 80.000 | 64.914 | 18.9    | 67    | -0.02    |
| 79   | Butylbenzylphthalate       | 40.000 | 35.878 | 10.3    | 70    | -0.02    |
| 80   | Benzo(a)anthracene         | 40.000 | 39.136 | 2.2     | 78    | -0.02    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 42.073 | -5.2    | 84    | -0.02    |
| 82   | Chrysene                   | 40.000 | 41.673 | -4.2    | 84    | -0.01    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 33.215 | 17.0    | 66    | -0.02    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 38.203 | 4.5     | 74    | -0.02    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 33.953 | 15.1    | 72    | -0.01    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0     | 85    | -0.01    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 41.790 | -4.5    | 93    | -0.01    |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 37.494 | 6.3  | 84    | -0.01    |
| 89 C | Benzo(a)pyrene         | 40.000 | 39.445 | 1.4  | 89    | -0.01    |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 32.369 | 19.1 | 75    | -0.02    |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 30.777 | 23.1 | 71    | -0.02    |

(#) = Out of Range

SPCC's out = 0 CCC's out = 2