

Data Path : \\74.0.250.170\svoasrv\HPCHEM1\BNA F\Data\BF040218\  
 Data File : BF104152.D  
 Acq On : 3 Apr 2018 1:19  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Apr 03 02:28:17 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 02 13:40:00 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   | 63    | 0.00     |
| 2    | 1,4-Dioxane                 | 40.000 | 37.322 | 6.7   | 58    | -0.02    |
| 3    | Pyridine                    | 40.000 | 35.119 | 12.2  | 53    | -0.01    |
| 4    | n-Nitrosodimethylamine      | 40.000 | 29.063 | 27.3# | 46    | -0.01    |
| 5 S  | 2-Fluorophenol              | 80.000 | 79.721 | 0.3   | 61    | 0.00     |
| 6    | Aniline                     | 40.000 | 40.102 | -0.3  | 59    | 0.00     |
| 7 S  | Phenol-d6                   | 80.000 | 83.703 | -4.6  | 65    | 0.00     |
| 8    | 2-Chlorophenol              | 40.000 | 44.599 | -11.5 | 68    | 0.00     |
| 9    | Benzaldehyde                | 40.000 | 39.609 | 1.0   | 61    | 0.00     |
| 10 C | Phenol                      | 40.000 | 39.460 | 1.3   | 62    | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 40.000 | 48.654 | -21.6 | 75    | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 40.000 | 41.310 | -3.3  | 64    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 40.000 | 44.459 | -11.1 | 70    | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 40.000 | 41.749 | -4.4  | 65    | 0.00     |
| 15   | Benzyl Alcohol              | 40.000 | 40.839 | -2.1  | 61    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 40.000 | 42.889 | -7.2  | 67    | 0.00     |
| 17   | 2-Methylphenol              | 40.000 | 42.242 | -5.6  | 64    | 0.00     |
| 18   | Hexachloroethane            | 40.000 | 38.959 | 2.6   | 61    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 40.000 | 44.095 | -10.2 | 68    | 0.00     |
| 20   | 3+4-Methylphenols           | 40.000 | 45.411 | -13.5 | 67    | 0.00     |
| 21 I | Naphthalene-d8              | 20.000 | 20.000 | 0.0   | 66    | 0.00     |
| 22   | Acetophenone                | 40.000 | 42.513 | -6.3  | 70    | 0.00     |
| 23 S | Nitrobenzene-d5             | 80.000 | 84.478 | -5.6  | 68    | 0.00     |
| 24   | Nitrobenzene                | 40.000 | 40.882 | -2.2  | 65    | 0.00     |
| 25   | Isophorone                  | 40.000 | 39.637 | 0.9   | 66    | 0.00     |
| 26 C | 2-Nitrophenol               | 40.000 | 38.945 | 2.6   | 61    | 0.00     |
| 27   | 2,4-Dimethylphenol          | 40.000 | 39.464 | 1.3   | 65    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 40.000 | 40.044 | -0.1  | 66    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 40.000 | 39.796 | 0.5   | 64    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 40.000 | 41.905 | -4.8  | 68    | 0.00     |
| 31   | Naphthalene                 | 40.000 | 39.714 | 0.7   | 65    | 0.00     |
| 32   | Benzoic acid                | 40.000 | 32.470 | 18.8  | 54    | -0.01    |
| 33   | 4-Chloroaniline             | 40.000 | 38.536 | 3.7   | 61    | 0.00     |
| 34 C | Hexachlorobutadiene         | 40.000 | 42.579 | -6.4  | 70    | 0.00     |
| 35   | Caprolactam                 | 40.000 | 36.290 | 9.3   | 58    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 40.000 | 38.984 | 2.5   | 62    | 0.00     |
| 37   | 2-Methylnaphthalene         | 40.000 | 39.321 | 1.7   | 64    | 0.00     |
| 38 I | Acenaphthene-d10            | 20.000 | 20.000 | 0.0   | 60    | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 40.000 | 44.353 | -10.9 | 66    | 0.00     |
| 40 P | Hexachlorocyclopentadiene   | 40.000 | 6.888  | 82.8# | 3     | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 80.000 | 70.126 | 12.3  | 51    | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 40.000 | 38.118 | 4.7   | 56    | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 40.000 | 41.097 | -2.7  | 61    | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 80.000 | 96.254 | -20.3 | 71    | 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 | 44.056 | -10.1  | 66    | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 42.927 | -7.3   | 64    | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 39.684 | 0.8    | 58    | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 41.142 | -2.9   | 62    | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 42.493 | -6.2   | 64    | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 39.215 | 2.0    | 58    | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 42.138 | -5.3   | 64    | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 39.340 | 1.6    | 57    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 6.564  | 83.6#  | 2     | 0.02     |
| 54   | Dibenzofuran               | 40.000 | 39.303 | 1.7    | 58    | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 19.309 | 51.7#  | 28    | 0.01     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 35.026 | 12.4   | 50    | 0.00     |
| 57   | Fluorene                   | 40.000 | 38.276 | 4.3    | 58    | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 34.904 | 12.7   | 52    | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 41.759 | -4.4   | 62    | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 41.182 | -3.0   | 62    | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 34.044 | 14.9   | 50    | 0.00     |
| 62   | Azobenzene                 | 40.000 | 37.981 | 5.0    | 56    | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 47    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 12.270 | 69.3#  | 14    | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 48.937 | -22.3# | 58    | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 45.205 | -13.0  | 53    | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 42.791 | -7.0   | 50    | 0.00     |
| 68   | Atrazine                   | 40.000 | 44.715 | -11.8  | 52    | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 36.264 | 9.3    | 41    | 0.00     |
| 70   | Phenanthrene               | 40.000 | 39.427 | 1.4    | 47    | 0.00     |
| 71   | Anthracene                 | 40.000 | 43.903 | -9.8   | 52    | 0.00     |
| 72   | Carbazole                  | 40.000 | 40.005 | -0.0   | 47    | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 45.961 | -14.9  | 54    | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 38.074 | 4.8    | 46    | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 51    | 0.00     |
| 76   | Benzidine                  | 40.000 | 39.941 | 0.1    | 47    | 0.00     |
| 77   | Pyrene                     | 40.000 | 35.607 | 11.0   | 45    | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 76.261 | 4.7    | 50    | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 35.159 | 12.1   | 44    | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 37.537 | 6.2    | 48    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 43.864 | -9.7   | 56    | 0.00     |
| 82   | Chrysene                   | 40.000 | 43.325 | -8.3   | 55    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 37.276 | 6.8    | 48    | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 38.047 | 4.9    | 48    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 31.924 | 20.2   | 40    | 0.00     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 47    | 0.00     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 41.353 | -3.4   | 50    | 0.00     |

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|------|------------------------|--------|--------|-------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 48.762 | -21.9 | 56    | 0.00     |
| 89 C | Benzo(a)pyrene         | 40.000 | 41.106 | -2.8  | 48    | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 34.963 | 12.6  | 41    | -0.01    |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 31.826 | 20.4  | 37    | -0.01    |

(#) = Out of Range

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