

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF111317\  
 Data File : BF100497.D  
 Acq On : 13 Nov 2017 12:42  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Nov 13 14:08:59 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 13 14:08:38 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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 51    | -0.01    |
| 2    | 1,4-Dioxane                 | 0.608 | 0.631 | -3.8   | 53    | -0.02    |
| 3    | Pyridine                    | 1.659 | 1.790 | -7.9   | 53    | -0.02    |
| 4    | n-Nitrosodimethylamine      | 0.805 | 0.880 | -9.3   | 54    | -0.02    |
| 5 S  | 2-Fluorophenol              | 1.248 | 1.202 | 3.7    | 50#   | 0.00     |
| 6    | Aniline                     | 2.174 | 1.963 | 9.7    | 46#   | -0.01    |
| 7 S  | Phenol-d6                   | 1.539 | 1.450 | 5.8    | 48#   | 0.00     |
| 8    | 2-Chlorophenol              | 1.320 | 1.312 | 0.6    | 51    | -0.01    |
| 9    | Benzaldehyde                | 1.099 | 0.965 | 12.2   | 45#   | 0.00     |
| 10 C | Phenol                      | 1.615 | 1.485 | 8.0    | 47#   | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.357 | 1.242 | 8.5    | 47#   | -0.01    |
| 12   | 1,3-Dichlorobenzene         | 1.522 | 1.543 | -1.4   | 52    | -0.01    |
| 13 C | 1,4-Dichlorobenzene         | 1.540 | 1.567 | -1.8   | 52    | -0.01    |
| 14   | 1,2-Dichlorobenzene         | 1.424 | 1.475 | -3.6   | 53    | -0.01    |
| 15   | Benzyl Alcohol              | 1.201 | 1.174 | 2.2    | 49#   | -0.01    |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.170 | 1.843 | 15.1   | 43#   | -0.01    |
| 17   | 2-Methylphenol              | 1.128 | 1.084 | 3.9    | 49#   | -0.01    |
| 18   | Hexachloroethane            | 0.508 | 0.534 | -5.1   | 52    | -0.01    |
| 19 P | n-Nitroso-di-n-propylamine  | 1.067 | 0.989 | 7.3    | 48#   | -0.01    |
| 20   | 3+4-Methylphenols           | 1.427 | 1.375 | 3.6    | 49#   | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0    | 48#   | -0.01    |
| 22   | Acetophenone                | 0.488 | 0.497 | -1.8   | 50#   | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.303 | 0.346 | -14.2  | 52    | -0.01    |
| 24   | Nitrobenzene                | 0.311 | 0.348 | -11.9  | 50#   | -0.01    |
| 25   | Isophorone                  | 0.636 | 0.596 | 6.3    | 45#   | -0.01    |
| 26 C | 2-Nitrophenol               | 0.132 | 0.185 | -40.2# | 62    | -0.01    |
| 27   | 2,4-Dimethylphenol          | 0.285 | 0.292 | -2.5   | 48#   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.416 | 0.404 | 2.9    | 47#   | -0.01    |
| 29 C | 2,4-Dichlorophenol          | 0.272 | 0.300 | -10.3  | 51    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.294 | 0.327 | -11.2  | 53    | -0.01    |
| 31   | Naphthalene                 | 0.963 | 0.999 | -3.7   | 50    | 0.00     |
| 32   | Benzoic acid                | 0.186 | 0.255 | -37.1# | 63    | 0.00     |
| 33   | 4-Chloroaniline             | 0.401 | 0.410 | -2.2   | 48#   | -0.01    |
| 34 C | Hexachlorobutadiene         | 0.175 | 0.203 | -16.0  | 55    | -0.01    |
| 35   | Caprolactam                 | 0.093 | 0.085 | 8.6    | 43#   | -0.01    |
| 36 C | 4-Chloro-3-methylphenol     | 0.292 | 0.300 | -2.7   | 48#   | -0.01    |
| 37   | 2-Methylnaphthalene         | 0.640 | 0.678 | -5.9   | 51    | -0.01    |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0    | 47#   | -0.01    |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.663 | 0.766 | -15.5  | 54    | -0.01    |
| 40 P | Hexachlorocyclopentadiene   | 0.312 | 0.406 | -30.1# | 57    | -0.01    |
| 41 S | 2,4,6-Tribromophenol        | 0.204 | 0.243 | -19.1  | 54    | -0.01    |
| 42 C | 2,4,6-Trichlorophenol       | 0.420 | 0.477 | -13.6  | 51    | -0.01    |
| 43   | 2,4,5-Trichlorophenol       | 0.436 | 0.501 | -14.9  | 52    | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.313 | 1.479 | -12.6  | 55    | -0.01    |

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF111317\  
 Data File : BF100497.D  
 Acq On : 13 Nov 2017 12:42  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Nov 13 14:08:59 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 13 14:08:38 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                   | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|----------------------------|-------|-------|--------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.730 | 1.873 | -8.3   | 52    | -0.01    |
| 46   | 2-Chloronaphthalene        | 1.255 | 1.351 | -7.6   | 51    | -0.01    |
| 47   | 2-Nitroaniline             | 0.350 | 0.397 | -13.4  | 50    | -0.01    |
| 48   | Acenaphthylene             | 2.080 | 2.180 | -4.8   | 50#   | -0.01    |
| 49   | Dimethylphthalate          | 1.527 | 1.597 | -4.6   | 50    | -0.01    |
| 50   | 2,6-Dinitrotoluene         | 0.302 | 0.341 | -12.9  | 51    | -0.01    |
| 51 C | Acenaphthene               | 1.265 | 1.369 | -8.2   | 52    | -0.01    |
| 52   | 3-Nitroaniline             | 0.357 | 0.381 | -6.7   | 49#   | -0.01    |
| 53 P | 2,4-Dinitrophenol          | 0.091 | 0.173 | -90.1# | 90    | -0.01    |
| 54   | Dibenzofuran               | 1.773 | 1.867 | -5.3   | 50    | -0.01    |
| 55 P | 4-Nitrophenol              | 0.290 | 0.303 | -4.5   | 47#   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.381 | 0.449 | -17.8  | 52    | 0.00     |
| 57   | Fluorene                   | 1.299 | 1.438 | -10.7  | 52    | -0.01    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.357 | 0.399 | -11.8  | 51    | -0.01    |
| 59   | Diethylphthalate           | 1.528 | 1.560 | -2.1   | 49#   | -0.01    |
| 60   | 4-Chlorophenyl-phenylether | 0.637 | 0.716 | -12.4  | 53    | -0.01    |
| 61   | 4-Nitroaniline             | 0.338 | 0.369 | -9.2   | 49#   | -0.01    |
| 62   | Azobenzene                 | 1.439 | 1.350 | 6.2    | 45#   | -0.01    |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 47#   | -0.01    |
| 64   | 4,6-Dinitro-2-methylphenol | 0.087 | 0.139 | -59.8# | 70    | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.695 | 0.729 | -4.9   | 50#   | -0.01    |
| 66   | 4-Bromophenyl-phenylether  | 0.214 | 0.235 | -9.8   | 52    | -0.01    |
| 67   | Hexachlorobenzene          | 0.224 | 0.250 | -11.6  | 53    | -0.01    |
| 68   | Atrazine                   | 0.211 | 0.221 | -4.7   | 49#   | -0.01    |
| 69 C | Pentachlorophenol          | 0.161 | 0.181 | -12.4  | 52    | 0.00     |
| 70   | Phenanthrene               | 1.053 | 1.083 | -2.8   | 51    | -0.01    |
| 71   | Anthracene                 | 1.068 | 1.103 | -3.3   | 50    | -0.01    |
| 72   | Carbazole                  | 0.986 | 0.983 | 0.3    | 48#   | -0.01    |
| 73   | Di-n-butylphthalate        | 1.154 | 1.224 | -6.1   | 51    | -0.02    |
| 74 C | Fluoranthene               | 1.116 | 1.143 | -2.4   | 50    | -0.01    |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 47#   | -0.02    |
| 76   | Benzidine                  | 0.801 | 0.774 | 3.4    | 43#   | -0.01    |
| 77   | Pyrene                     | 1.426 | 1.469 | -3.0   | 49#   | -0.01    |
| 78 S | Terphenyl-d14              | 0.870 | 0.925 | -6.3   | 53    | -0.01    |
| 79   | Butylbenzylphthalate       | 0.581 | 0.640 | -10.2  | 51    | -0.01    |
| 80   | Benzo(a)anthracene         | 1.204 | 1.271 | -5.6   | 50    | -0.02    |
| 81   | 3,3'-Dichlorobenzidine     | 0.432 | 0.469 | -8.6   | 49#   | -0.01    |
| 82   | Chrysene                   | 1.166 | 1.192 | -2.2   | 49#   | -0.01    |
| 83   | Bis(2-ethylhexyl)phthalate | 0.765 | 0.880 | -15.0  | 52    | -0.02    |
| 84 c | Di-n-octyl phthalate       | 1.314 | 1.428 | -8.7   | 49#   | -0.02    |
| 85   | Indeno(1,2,3-cd)pyrene     | 0.943 | 0.845 | 10.4   | 44#   | -0.02    |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0    | 43#   | -0.02    |
| 87   | Benzo(b)fluoranthene       | 1.185 | 1.343 | -13.3  | 49#   | -0.02    |

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF111317\  
Data File : BF100497.D  
Acq On : 13 Nov 2017 12:42  
Operator : SJ/JU  
Sample : SSTDCCC040  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_F  
LabSampleId :  
SSTDCCC040

Quant Time: Nov 13 14:08:59 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 13 14:08:38 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               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.120 | 1.195 | -6.7 | 43#   | -0.01    |
| 89 C | Benzo(a)pyrene         | 1.050 | 1.119 | -6.6 | 45#   | -0.02    |
| 90   | Dibenzo(a,h)anthracene | 0.859 | 0.882 | -2.7 | 45#   | -0.03    |
| 91   | Benzo(a,h,i)perylene   | 0.841 | 0.827 | 1.7  | 43#   | -0.03    |

(#) = Out of Range

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