

Data Path : Z:\HPCHEM1\BNA F\Data\BF020918\  
 Data File : BF102903.D  
 Acq On : 9 Feb 2018 22:40  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Feb 10 00:50:14 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 12:44:16 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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 95    | 0.00     |
| 2    | 1,4-Dioxane                 | 0.650 | 0.688 | -5.8   | 98    | -0.03    |
| 3    | Pyridine                    | 1.797 | 1.939 | -7.9   | 99    | -0.02    |
| 4    | n-Nitrosodimethylamine      | 0.769 | 0.842 | -9.5   | 101   | -0.02    |
| 5 S  | 2-Fluorophenol              | 1.317 | 1.298 | 1.4    | 94    | 0.00     |
| 6    | Aniline                     | 2.342 | 2.253 | 3.8    | 91    | 0.00     |
| 7 S  | Phenol-d6                   | 1.586 | 1.532 | 3.4    | 92    | 0.01     |
| 8    | 2-Chlorophenol              | 1.356 | 1.301 | 4.1    | 91    | 0.00     |
| 9    | Benzaldehyde                | 1.178 | 1.071 | 9.1    | 86    | 0.00     |
| 10 C | Phenol                      | 1.699 | 1.810 | -6.5   | 103   | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.414 | 1.385 | 2.1    | 93    | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.570 | 1.493 | 4.9    | 91    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.564 | 1.490 | 4.7    | 91    | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.457 | 1.356 | 6.9    | 89    | 0.00     |
| 15   | Benzyl Alcohol              | 1.219 | 1.222 | -0.2   | 93    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.686 | 2.427 | 9.6    | 85    | 0.00     |
| 17   | 2-Methylphenol              | 1.251 | 1.175 | 6.1    | 89    | 0.00     |
| 18   | Hexachloroethane            | 0.536 | 0.511 | 4.7    | 88    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.045 | 0.950 | 9.1    | 88    | 0.00     |
| 20   | 3+4-Methylphenols           | 1.542 | 1.398 | 9.3    | 84    | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0    | 89    | 0.00     |
| 22   | Acetophenone                | 0.489 | 0.451 | 7.8    | 85    | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.288 | 0.346 | -20.1  | 103   | 0.00     |
| 24   | Nitrobenzene                | 0.319 | 0.385 | -20.7  | 99    | 0.00     |
| 25   | Isophorone                  | 0.664 | 0.646 | 2.7    | 89    | 0.00     |
| 26 C | 2-Nitrophenol               | 0.121 | 0.170 | -40.5# | 124   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.280 | 0.260 | 7.1    | 82    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.393 | 0.389 | 1.0    | 89    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.255 | 0.249 | 2.4    | 85    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.288 | 0.270 | 6.2    | 85    | 0.00     |
| 31   | Naphthalene                 | 0.977 | 0.918 | 6.0    | 85    | 0.00     |
| 32   | Benzoic acid                | 0.173 | 0.187 | -8.1   | 96    | 0.00     |
| 33   | 4-Chloroaniline             | 0.421 | 0.394 | 6.4    | 84    | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.148 | 0.144 | 2.7    | 87    | 0.00     |
| 35   | Caprolactam                 | 0.089 | 0.083 | 6.7    | 82    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.286 | 0.274 | 4.2    | 84    | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.640 | 0.577 | 9.8    | 82    | 0.00     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0    | 79    | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.545 | 0.558 | -2.4   | 82    | 0.00     |
| 40 P | Hexachlorocyclopentadiene   | 0.259 | 0.052 | 79.9#  | 15#   | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 0.161 | 0.140 | 13.0   | 64    | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 0.358 | 0.365 | -2.0   | 77    | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 0.403 | 0.404 | -0.2   | 74    | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.205 | 1.209 | -0.3   | 79    | 0.00     |

Data Path : Z:\HPCHEM1\BNA F\Data\BF020918\  
 Data File : BF102903.D  
 Acq On : 9 Feb 2018 22:40  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Feb 10 00:50:14 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 12:44:16 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                   | AvqRF | CCRF   | %Dev   | Area% | Dev(min) |
|------|----------------------------|-------|--------|--------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.685 | 1.670  | 0.9    | 80    | 0.00     |
| 46   | 2-Chloronaphthalene        | 1.326 | 1.298  | 2.1    | 78    | 0.00     |
| 47   | 2-Nitroaniline             | 0.338 | 0.510  | -50.9# | 101   | 0.00     |
| 48   | Acenaphthylene             | 2.060 | 1.958  | 5.0    | 76    | 0.00     |
| 49   | Dimethylphthalate          | 1.559 | 1.569  | -0.6   | 81    | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 0.297 | 0.319  | -7.4   | 81    | 0.00     |
| 51 C | Acenaphthene               | 1.232 | 1.132  | 8.1    | 74    | 0.00     |
| 52   | 3-Nitroaniline             | 0.365 | 0.397  | -8.8   | 82    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.063 | 0.018# | 71.4#  | 26#   | 0.00     |
| 54   | Dibenzofuran               | 1.736 | 1.596  | 8.1    | 74    | 0.00     |
| 55 P | 4-Nitrophenol              | 0.269 | 0.232  | 13.8   | 66    | 0.01     |
| 56   | 2,4-Dinitrotoluene         | 0.327 | 0.393  | -20.2  | 80    | 0.00     |
| 57   | Fluorene                   | 1.263 | 1.162  | 8.0    | 72    | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.279 | 0.252  | 9.7    | 68    | 0.00     |
| 59   | Diethylphthalate           | 1.540 | 1.491  | 3.2    | 77    | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 0.559 | 0.535  | 4.3    | 76    | 0.00     |
| 61   | 4-Nitroaniline             | 0.347 | 0.352  | -1.4   | 78    | 0.00     |
| 62   | Azobenzene                 | 1.538 | 1.459  | 5.1    | 76    | 0.00     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000  | 0.0    | 66    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.072 | 0.035  | 51.4#  | 32#   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.705 | 0.756  | -7.2   | 71    | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 0.212 | 0.220  | -3.8   | 69    | 0.00     |
| 67   | Hexachlorobenzene          | 0.233 | 0.223  | 4.3    | 64    | 0.00     |
| 68   | Atrazine                   | 0.208 | 0.218  | -4.8   | 68    | 0.00     |
| 69 C | Pentachlorophenol          | 0.137 | 0.116  | 15.3   | 53    | 0.00     |
| 70   | Phenanthrene               | 1.114 | 1.032  | 7.4    | 62    | 0.00     |
| 71   | Anthracene                 | 1.133 | 1.060  | 6.4    | 63    | 0.00     |
| 72   | Carbazole                  | 1.110 | 1.024  | 7.7    | 62    | 0.00     |
| 73   | Di-n-butylphthalate        | 1.348 | 1.439  | -6.8   | 70    | 0.00     |
| 74 C | Fluoranthene               | 1.121 | 1.009  | 10.0   | 61    | 0.00     |
| 75 I | Chrysene-d12               | 1.000 | 1.000  | 0.0    | 72    | 0.00     |
| 76   | Benzidine                  | 0.919 | 0.845  | 8.1    | 62    | 0.01     |
| 77   | Pyrene                     | 1.568 | 1.352  | 13.8   | 62    | 0.00     |
| 78 S | Terphenyl-d14              | 0.845 | 0.724  | 14.3   | 63    | 0.00     |
| 79   | Butylbenzylphthalate       | 0.687 | 0.737  | -7.3   | 70    | 0.00     |
| 80   | Benzo(a)anthracene         | 1.258 | 1.234  | 1.9    | 72    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 0.466 | 0.491  | -5.4   | 72    | 0.00     |
| 82   | Chrysene                   | 1.268 | 1.205  | 5.0    | 70    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.961 | 1.084  | -12.8  | 79    | 0.00     |
| 84 c | Di-n-octyl phthalate       | 1.443 | 1.816  | -25.8# | 87    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 1.052 | 1.032  | 1.9    | 76    | 0.03     |
| 86 I | Perylene-d12               | 1.000 | 1.000  | 0.0    | 85    | 0.01     |
| 87   | Benzo(b)fluoranthene       | 1.297 | 1.130  | 12.9   | 72    | 0.05     |

Data Path : Z:\HPCHEM1\BNA F\Data\BF020918\  
Data File : BF102903.D  
Acq On : 9 Feb 2018 22:40  
Operator : SJ/JU  
Sample : SSTDCCC040  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_F  
LabSampleId :  
SSTDCCC040

Quant Time: Feb 10 00:50:14 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 12:44:16 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               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.239 | 1.130 | 8.8  | 76    | 0.02     |
| 89 C | Benzo(a)pyrene         | 1.167 | 1.114 | 4.5  | 80    | 0.02     |
| 90   | Dibenzo(a,h)anthracene | 0.947 | 0.870 | 8.1  | 78    | 0.02     |
| 91   | Benzo(a,h,i)perylene   | 0.927 | 0.792 | 14.6 | 74    | 0.04     |

(#) = Out of Range

SPCC's out = 1 CCC's out = 2