

Data Path : Z:\HPCHEM1\BNA F\Data\BF043018\  
 Data File : BF104927.D  
 Acq On : 30 Apr 2018 12:40  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Apr 30 15:23:52 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 30 15:20:08 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    | 92    | 0.00     |
| 2    | 1,4-Dioxane                 | 0.609 | 0.539 | 11.5   | 80    | 0.00     |
| 3    | Pyridine                    | 1.714 | 1.514 | 11.7   | 81    | 0.00     |
| 4    | n-Nitrosodimethylamine      | 0.599 | 0.520 | 13.2   | 79    | 0.00     |
| 5 S  | 2-Fluorophenol              | 1.308 | 1.239 | 5.3    | 88    | 0.00     |
| 6    | Aniline                     | 2.233 | 2.058 | 7.8    | 84    | 0.00     |
| 7 S  | Phenol-d6                   | 1.607 | 1.546 | 3.8    | 90    | 0.00     |
| 8    | 2-Chlorophenol              | 1.381 | 1.414 | -2.4   | 94    | 0.00     |
| 9    | Benzaldehyde                | 0.802 | 0.855 | -6.6   | 94    | 0.00     |
| 10 C | Phenol                      | 1.705 | 1.674 | 1.8    | 92    | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.361 | 1.343 | 1.3    | 91    | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.564 | 1.591 | -1.7   | 94    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.559 | 1.607 | -3.1   | 95    | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.445 | 1.478 | -2.3   | 94    | 0.00     |
| 15   | Benzyl Alcohol              | 1.221 | 1.133 | 7.2    | 86    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.827 | 1.558 | 14.7   | 79    | 0.00     |
| 17   | 2-Methylphenol              | 1.200 | 1.206 | -0.5   | 93    | 0.00     |
| 18   | Hexachloroethane            | 0.556 | 0.579 | -4.1   | 97    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.050 | 0.929 | 11.5   | 85    | 0.00     |
| 20   | 3+4-Methylphenols           | 1.488 | 1.439 | 3.3    | 90    | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0    | 97    | 0.00     |
| 22   | Acetophenone                | 0.492 | 0.461 | 6.3    | 92    | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.306 | 0.332 | -8.5   | 102   | 0.00     |
| 24   | Nitrobenzene                | 0.338 | 0.349 | -3.3   | 96    | 0.00     |
| 25   | Isophorone                  | 0.648 | 0.604 | 6.8    | 91    | 0.00     |
| 26 C | 2-Nitrophenol               | 0.138 | 0.187 | -35.5# | 125   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.286 | 0.263 | 8.0    | 88    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.396 | 0.377 | 4.8    | 93    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.273 | 0.273 | 0.0    | 96    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.299 | 0.304 | -1.7   | 99    | 0.00     |
| 31   | Naphthalene                 | 0.996 | 0.967 | 2.9    | 94    | 0.00     |
| 32   | Benzoic acid                | 0.228 | 0.220 | 3.5    | 87    | 0.00     |
| 33   | 4-Chloroaniline             | 0.427 | 0.419 | 1.9    | 96    | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.164 | 0.174 | -6.1   | 104   | 0.00     |
| 35   | Caprolactam                 | 0.095 | 0.091 | 4.2    | 91    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.292 | 0.291 | 0.3    | 96    | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.644 | 0.626 | 2.8    | 95    | 0.00     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0    | 95    | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.573 | 0.617 | -7.7   | 104   | 0.00     |
| 40 P | Hexachlorocyclopentadiene   | 0.321 | 0.376 | -17.1  | 109   | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 0.207 | 0.213 | -2.9   | 97    | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 0.397 | 0.412 | -3.8   | 96    | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 0.445 | 0.458 | -2.9   | 98    | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.266 | 1.255 | 0.9    | 96    | 0.00     |

Data Path : Z:\HPCHEM1\BNA F\Data\BF043018\  
 Data File : BF104927.D  
 Acq On : 30 Apr 2018 12:40  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Apr 30 15:23:52 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 30 15:20:08 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              | 1.680 | 1.692 | -0.7   | 97    | 0.00     |
| 46   | 2-Chloronaphthalene        | 1.327 | 1.340 | -1.0   | 97    | 0.00     |
| 47   | 2-Nitroaniline             | 0.328 | 0.393 | -19.8  | 106   | 0.00     |
| 48   | Acenaphthylene             | 2.082 | 1.997 | 4.1    | 91    | 0.00     |
| 49   | Dimethylphthalate          | 1.577 | 1.606 | -1.8   | 98    | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 0.292 | 0.347 | -18.8  | 105   | 0.00     |
| 51 C | Acenaphthene               | 1.270 | 1.181 | 7.0    | 90    | 0.00     |
| 52   | 3-Nitroaniline             | 0.342 | 0.399 | -16.7  | 103   | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.089 | 0.137 | -53.9# | 150   | 0.00     |
| 54   | Dibenzofuran               | 1.770 | 1.619 | 8.5    | 87    | 0.00     |
| 55 P | 4-Nitrophenol              | 0.268 | 0.285 | -6.3   | 93    | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.383 | 0.419 | -9.4   | 99    | 0.00     |
| 57   | Fluorene                   | 1.289 | 1.362 | -5.7   | 100   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.332 | 0.326 | 1.8    | 94    | 0.00     |
| 59   | Diethylphthalate           | 1.571 | 1.505 | 4.2    | 93    | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 0.574 | 0.629 | -9.6   | 104   | 0.00     |
| 61   | 4-Nitroaniline             | 0.334 | 0.405 | -21.3  | 105   | 0.00     |
| 62   | Azobenzene                 | 1.501 | 1.334 | 11.1   | 85    | 0.00     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 94    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.087 | 0.133 | -52.9# | 136   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.693 | 0.669 | 3.5    | 93    | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 0.213 | 0.214 | -0.5   | 97    | 0.00     |
| 67   | Hexachlorobenzene          | 0.239 | 0.247 | -3.3   | 99    | 0.00     |
| 68   | Atrazine                   | 0.209 | 0.194 | 7.2    | 89    | 0.00     |
| 69 C | Pentachlorophenol          | 0.148 | 0.144 | 2.7    | 88    | 0.00     |
| 70   | Phenanthrene               | 1.114 | 1.064 | 4.5    | 92    | 0.00     |
| 71   | Anthracene                 | 1.132 | 1.088 | 3.9    | 93    | 0.00     |
| 72   | Carbazole                  | 1.106 | 1.043 | 5.7    | 92    | 0.00     |
| 73   | Di-n-butylphthalate        | 1.351 | 1.284 | 5.0    | 92    | 0.00     |
| 74 C | Fluoranthene               | 1.164 | 1.087 | 6.6    | 90    | 0.00     |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 88    | 0.00     |
| 76   | Benzidine                  | 0.692 | 0.578 | 16.5   | 74    | 0.00     |
| 77   | Pyrene                     | 1.482 | 1.501 | -1.3   | 91    | 0.00     |
| 78 S | Terphenyl-d14              | 0.877 | 0.876 | 0.1    | 92    | 0.00     |
| 79   | Butylbenzylphthalate       | 0.698 | 0.718 | -2.9   | 91    | 0.00     |
| 80   | Benzo(a)anthracene         | 1.195 | 1.274 | -6.6   | 97    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 0.445 | 0.429 | 3.6    | 83    | 0.00     |
| 82   | Chrysene                   | 1.227 | 1.176 | 4.2    | 85    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.898 | 0.962 | -7.1   | 96    | 0.00     |
| 84 c | Di-n-octyl phthalate       | 1.501 | 1.468 | 2.2    | 85    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 1.043 | 0.942 | 9.7    | 83    | 0.00     |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0    | 77    | 0.00     |
| 87   | Benzo(b)fluoranthene       | 1.263 | 1.271 | -0.6   | 77    | 0.00     |

Data Path : Z:\HPCHEM1\BNA F\Data\BF043018\  
Data File : BF104927.D  
Acq On : 30 Apr 2018 12:40  
Operator : JU/SJ  
Sample : SSTDCCC040  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_F  
LabSampleId :  
SSTDCCC040

Quant Time: Apr 30 15:23:52 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 30 15:20:08 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) |
|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.193 | 1.265 | -6.0 | 83    | 0.00     |
| 89 C | Benzo(a)pyrene         | 1.130 | 1.141 | -1.0 | 78    | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 0.928 | 0.939 | -1.2 | 81    | 0.00     |
| 91   | Benzo(a,h,i)perylene   | 0.899 | 0.949 | -5.6 | 87    | 0.00     |

(#) = Out of Range

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