

Data Path : Z:\HPCHEM1\BNA\_F\Data\BF031015\  
 Data File : BF077658.D  
 Acq On : 10 Mar 2015 13:52  
 Operator : TP/IZ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Mar 11 00:54:39 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 11 00:54:19 2015  
 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) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 62    | -0.04    |
| 2    | 1,4-Dioxane                 | 0.508 | 0.571 | -12.4  | 70    | -0.06    |
| 3    | Pyridine                    | 1.454 | 1.395 | 4.1    | 56    | -0.06    |
| 4    | n-Nitrosodimethylamine      | 0.632 | 0.676 | -7.0   | 68    | -0.07    |
| 5 S  | 2-Fluorophenol              | 1.198 | 1.355 | -13.1  | 69    | -0.04    |
| 6    | Aniline                     | 2.129 | 2.036 | 4.4    | 57    | -0.04    |
| 7 S  | Phenol-d6                   | 1.540 | 1.486 | 3.5    | 58    | -0.04    |
| 8    | 2-Chlorophenol              | 1.413 | 1.352 | 4.3    | 58    | -0.04    |
| 9    | Benzaldehyde                | 0.935 | 1.074 | -14.9  | 72    | -0.04    |
| 10 C | Phenol                      | 1.828 | 1.695 | 7.3    | 54    | -0.04    |
| 11   | bis(2-Chloroethyl)ether     | 1.313 | 1.309 | 0.3    | 62    | -0.04    |
| 12   | 1,3-Dichlorobenzene         | 1.539 | 1.456 | 5.4    | 57    | -0.04    |
| 13 C | 1,4-Dichlorobenzene         | 1.566 | 1.512 | 3.4    | 58    | -0.04    |
| 14   | 1,2-Dichlorobenzene         | 1.489 | 1.475 | 0.9    | 59    | -0.04    |
| 15   | Benzyl Alcohol              | 1.171 | 1.103 | 5.8    | 57    | -0.04    |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.877 | 1.676 | 10.7   | 53    | -0.04    |
| 17   | 2-Methylphenol              | 1.105 | 1.065 | 3.6    | 55    | -0.04    |
| 18   | Hexachloroethane            | 0.523 | 0.507 | 3.1    | 59    | -0.04    |
| 19 P | n-Nitroso-di-n-propylamine  | 0.978 | 0.908 | 7.2    | 55    | -0.04    |
| 20   | 3+4-Methylphenols           | 1.455 | 1.395 | 4.1    | 57    | -0.04    |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0    | 61    | -0.04    |
| 22   | Acetophenone                | 0.470 | 0.464 | 1.3    | 62    | -0.04    |
| 23 S | Nitrobenzene-d5             | 0.322 | 0.325 | -0.9   | 60    | -0.04    |
| 24   | Nitrobenzene                | 0.338 | 0.336 | 0.6    | 60    | -0.04    |
| 25   | Isophorone                  | 0.638 | 0.595 | 6.7    | 53    | -0.04    |
| 26 C | 2-Nitrophenol               | 0.139 | 0.162 | -16.5  | 64    | -0.04    |
| 27   | 2,4-Dimethylphenol          | 0.310 | 0.305 | 1.6    | 59    | -0.04    |
| 28   | bis(2-Chloroethoxy)methane  | 0.403 | 0.395 | 2.0    | 58    | -0.04    |
| 29 C | 2,4-Dichlorophenol          | 0.291 | 0.282 | 3.1    | 57    | -0.04    |
| 30   | 1,2,4-Trichlorobenzene      | 0.320 | 0.297 | 7.2    | 55    | -0.04    |
| 31   | Naphthalene                 | 1.000 | 0.952 | 4.8    | 58    | -0.04    |
| 32   | Benzoic acid                | 0.151 | 0.191 | -26.5# | 71    | -0.04    |
| 33   | 4-Chloroaniline             | 0.445 | 0.426 | 4.3    | 56    | -0.04    |
| 34 C | Hexachlorobutadiene         | 0.183 | 0.167 | 8.7    | 55    | -0.04    |
| 35   | Caprolactam                 | 0.089 | 0.086 | 3.4    | 56    | -0.04    |
| 36 C | 4-Chloro-3-methylphenol     | 0.293 | 0.282 | 3.8    | 55    | -0.04    |
| 37   | 2-Methylnaphthalene         | 0.710 | 0.665 | 6.3    | 54    | -0.04    |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0    | 55    | -0.04    |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.574 | 0.568 | 1.0    | 52    | -0.04    |
| 40 P | Hexachlorocyclopentadiene   | 0.308 | 0.293 | 4.9    | 47#   | -0.04    |
| 41 S | 2,4,6-Tribromophenol        | 0.193 | 0.205 | -6.2   | 54    | -0.04    |
| 42 C | 2,4,6-Trichlorophenol       | 0.380 | 0.389 | -2.4   | 52    | -0.04    |
| 43   | 2,4,5-Trichlorophenol       | 0.406 | 0.439 | -8.1   | 56    | -0.04    |
| 44 S | 2-Fluorobiphenyl            | 1.283 | 1.352 | -5.4   | 57    | -0.04    |
| 45   | 1,1'-Biphenyl               | 1.515 | 1.514 | 0.1    | 53    | -0.04    |
| 46   | 2-Chloronaphthalene         | 1.188 | 1.222 | -2.9   | 56    | -0.04    |
| 47   | 2-Nitroaniline              | 0.293 | 0.320 | -9.2   | 57    | -0.04    |

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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) |
|------|----------------------------|-------|-------|-------|-------|----------|
| 48   | Acenaphthylene             | 1.881 | 1.978 | -5.2  | 56    | -0.04    |
| 49   | Dimethylphthalate          | 1.406 | 1.422 | -1.1  | 54    | -0.04    |
| 50   | 2,6-Dinitrotoluene         | 0.282 | 0.330 | -17.0 | 57    | -0.04    |
| 51 C | Acenaphthene               | 1.123 | 1.114 | 0.8   | 52    | -0.04    |
| 52   | 3-Nitroaniline             | 0.325 | 0.355 | -9.2  | 55    | -0.04    |
| 53 P | 2,4-Dinitrophenol          | 0.086 | 0.104 | -20.9 | 63    | -0.04    |
| 54   | Dibenzofuran               | 1.733 | 1.710 | 1.3   | 52    | -0.04    |
| 55 P | 4-Nitrophenol              | 0.261 | 0.276 | -5.7  | 52    | -0.04    |
| 56   | 2,4-Dinitrotoluene         | 0.381 | 0.435 | -14.2 | 55    | -0.04    |
| 57   | Fluorene                   | 1.386 | 1.414 | -2.0  | 54    | -0.04    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.327 | 0.340 | -4.0  | 52    | -0.04    |
| 59   | Diethylphthalate           | 1.386 | 1.374 | 0.9   | 53    | -0.04    |
| 60   | 4-Chlorophenyl-phenylether | 0.668 | 0.658 | 1.5   | 52    | -0.04    |
| 61   | 4-Nitroaniline             | 0.312 | 0.354 | -13.5 | 58    | -0.04    |
| 62   | Azobenzene                 | 1.315 | 1.297 | 1.4   | 51    | -0.04    |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 59    | -0.04    |
| 64   | 4,6-Dinitro-2-methylphenol | 0.075 | 0.080 | -6.7  | 59    | -0.04    |
| 65 c | n-Nitrosodiphenylamine     | 0.664 | 0.604 | 9.0   | 52    | -0.04    |
| 66   | 4-Bromophenyl-phenylether  | 0.234 | 0.198 | 15.4  | 50#   | -0.04    |
| 67   | Hexachlorobenzene          | 0.251 | 0.217 | 13.5  | 52    | -0.04    |
| 68   | Atrazine                   | 0.216 | 0.172 | 20.4  | 50#   | -0.04    |
| 69 C | Pentachlorophenol          | 0.132 | 0.117 | 11.4  | 49#   | -0.04    |
| 70   | Phenanthrene               | 1.159 | 1.055 | 9.0   | 54    | -0.04    |
| 71   | Anthracene                 | 1.150 | 1.062 | 7.7   | 56    | -0.04    |
| 72   | Carbazole                  | 1.094 | 1.025 | 6.3   | 53    | -0.04    |
| 73   | Di-n-butylphthalate        | 1.284 | 1.179 | 8.2   | 51    | -0.04    |
| 74 C | Fluoranthene               | 1.266 | 1.169 | 7.7   | 53    | -0.05    |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 57    | -0.03    |
| 76   | Benzydine                  | 0.676 | 0.664 | 1.8   | 60    | -0.04    |
| 77   | Pyrene                     | 1.223 | 1.139 | 6.9   | 53    | -0.05    |
| 78 S | Terphenyl-d14              | 0.856 | 0.777 | 9.2   | 52    | -0.04    |
| 79   | Butylbenzylphthalate       | 0.503 | 0.478 | 5.0   | 51    | -0.04    |
| 80   | Benzo(a)anthracene         | 1.172 | 1.115 | 4.9   | 55    | -0.03    |
| 81   | 3,3'-Dichlorobenzidine     | 0.430 | 0.423 | 1.6   | 55    | -0.03    |
| 82   | Chrysene                   | 1.101 | 1.041 | 5.4   | 55    | -0.03    |
| 83   | Bis(2-ethylhexyl)phthalate | 0.807 | 0.711 | 11.9  | 49#   | -0.02    |
| 84 c | Di-n-octyl phthalate       | 1.348 | 1.263 | 6.3   | 51    | 0.02     |
| 85   | Indeno(1,2,3-cd)pyrene     | 1.255 | 1.272 | -1.4  | 57    | 0.04     |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0   | 59    | 0.05     |
| 87   | Benzo(b)fluoranthene       | 1.163 | 1.096 | 5.8   | 53    | 0.02     |
| 88   | Benzo(k)fluoranthene       | 1.140 | 1.140 | 0.0   | 63    | 0.03     |
| 89 C | Benzo(a)pyrene             | 1.108 | 1.080 | 2.5   | 56    | 0.04     |
| 90   | Dibenzo(a,h)anthracene     | 1.056 | 1.064 | -0.8  | 58    | 0.04     |
| 91   | Benzo(g,h,i)perylene       | 1.066 | 1.067 | -0.1  | 58    | 0.03     |

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| Compound           | AvgRF                        | CCRF | %Dev Area | % Dev(min) |
|--------------------|------------------------------|------|-----------|------------|
| -----              |                              |      |           |            |
| (#) = Out of Range | SPCC's out = 0 CCC's out = 0 |      |           |            |