

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011315\  
 Data File : BF076853.D  
 Acq On : 13 Jan 2015 20:53  
 Operator : IZ / TP  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jan 14 12:05:31 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF010915.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 12 10:43:48 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    | 106   | -0.02    |
| 2    | 1,4-Dioxane                 | 0.511 | 0.495 | 3.1    | 96    | -0.02    |
| 3    | Pyridine                    | 1.360 | 1.595 | -17.3  | 139   | -0.05    |
| 4    | n-Nitrosodimethylamine      | 0.684 | 0.660 | 3.5    | 93    | -0.02    |
| 5 S  | 2-Fluorophenol              | 1.199 | 1.307 | -9.0   | 107   | -0.05    |
| 6    | Aniline                     | 2.083 | 2.238 | -7.4   | 105   | -0.03    |
| 7 S  | Phenol-d6                   | 1.509 | 1.640 | -8.7   | 108   | -0.05    |
| 8    | 2-Chlorophenol              | 1.417 | 1.480 | -4.4   | 106   | -0.03    |
| 9    | Benzaldehyde                | 0.896 | 0.781 | 12.8   | 105   | -0.03    |
| 10 C | Phenol                      | 1.644 | 1.798 | -9.4   | 109   | -0.03    |
| 11   | bis(2-Chloroethyl)ether     | 1.317 | 1.339 | -1.7   | 103   | -0.02    |
| 12   | 1,3-Dichlorobenzene         | 1.574 | 1.682 | -6.9   | 110   | -0.03    |
| 13 C | 1,4-Dichlorobenzene         | 1.650 | 1.781 | -7.9   | 109   | -0.03    |
| 14   | 1,2-Dichlorobenzene         | 1.538 | 1.620 | -5.3   | 106   | -0.02    |
| 15   | Benzyl Alcohol              | 1.255 | 1.380 | -10.0  | 107   | -0.03    |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.770 | 1.739 | 1.8    | 101   | -0.02    |
| 17   | 2-Methylphenol              | 1.135 | 1.221 | -7.6   | 108   | -0.03    |
| 18   | Hexachloroethane            | 0.597 | 0.627 | -5.0   | 105   | -0.03    |
| 19 P | n-Nitroso-di-n-propylamine  | 1.072 | 1.099 | -2.5   | 103   | -0.03    |
| 20   | 3+4-Methylphenols           | 1.499 | 1.615 | -7.7   | 108   | -0.03    |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0    | 102   | -0.03    |
| 22   | Acetophenone                | 0.491 | 0.521 | -6.1   | 103   | -0.02    |
| 23 S | Nitrobenzene-d5             | 0.360 | 0.395 | -9.7   | 106   | -0.03    |
| 24   | Nitrobenzene                | 0.364 | 0.401 | -10.2  | 104   | -0.02    |
| 25   | Isophorone                  | 0.655 | 0.700 | -6.9   | 103   | -0.02    |
| 26 C | 2-Nitrophenol               | 0.174 | 0.192 | -10.3  | 105   | -0.03    |
| 27   | 2,4-Dimethylphenol          | 0.282 | 0.313 | -11.0  | 107   | -0.03    |
| 28   | bis(2-Chloroethoxy)methane  | 0.384 | 0.399 | -3.9   | 103   | -0.03    |
| 29 C | 2,4-Dichlorophenol          | 0.269 | 0.298 | -10.8  | 102   | -0.03    |
| 30   | 1,2,4-Trichlorobenzene      | 0.303 | 0.326 | -7.6   | 104   | -0.03    |
| 31   | Naphthalene                 | 1.026 | 1.091 | -6.3   | 104   | -0.03    |
| 32   | Benzoic acid                | 0.138 | 0.176 | -27.5# | 121   | -0.02    |
| 33   | 4-Chloroaniline             | 0.402 | 0.449 | -11.7  | 108   | -0.03    |
| 34 C | Hexachlorobutadiene         | 0.173 | 0.185 | -6.9   | 104   | -0.03    |
| 35   | Caprolactam                 | 0.080 | 0.086 | -7.5   | 106   | -0.06    |
| 36 C | 4-Chloro-3-methylphenol     | 0.298 | 0.332 | -11.4  | 104   | -0.05    |
| 37   | 2-Methylnaphthalene         | 0.720 | 0.751 | -4.3   | 103   | -0.05    |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0    | 103   | -0.05    |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.497 | 0.528 | -6.2   | 103   | -0.05    |
| 40 P | Hexachlorocyclopentadiene   | 0.247 | 0.235 | 4.9    | 93    | -0.03    |
| 41 S | 2,4,6-Tribromophenol        | 0.167 | 0.173 | -3.6   | 99    | -0.05    |
| 42 C | 2,4,6-Trichlorophenol       | 0.361 | 0.392 | -8.6   | 101   | -0.05    |
| 43   | 2,4,5-Trichlorophenol       | 0.379 | 0.400 | -5.5   | 99    | -0.06    |
| 44 S | 2-Fluorobiphenyl            | 1.359 | 1.379 | -1.5   | 99    | -0.05    |

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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) |
|------|----------------------------|-------|-------|--------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.538 | 1.596 | -3.8   | 101   | -0.05    |
| 46   | 2-Chloronaphthalene        | 1.236 | 1.294 | -4.7   | 100   | -0.05    |
| 47   | 2-Nitroaniline             | 0.368 | 0.432 | -17.4  | 111   | -0.05    |
| 48   | Acenaphthylene             | 2.094 | 2.249 | -7.4   | 105   | -0.05    |
| 49   | Dimethylphthalate          | 1.454 | 1.493 | -2.7   | 98    | -0.03    |
| 50   | 2,6-Dinitrotoluene         | 0.308 | 0.315 | -2.3   | 100   | -0.05    |
| 51 C | Acenaphthene               | 1.183 | 1.208 | -2.1   | 98    | -0.05    |
| 52   | 3-Nitroaniline             | 0.352 | 0.379 | -7.7   | 107   | -0.05    |
| 53 P | 2,4-Dinitrophenol          | 0.075 | 0.087 | -16.0  | 120   | -0.05    |
| 54   | Dibenzofuran               | 1.731 | 1.808 | -4.4   | 102   | -0.05    |
| 55 P | 4-Nitrophenol              | 0.227 | 0.241 | -6.2   | 106   | -0.06    |
| 56   | 2,4-Dinitrotoluene         | 0.394 | 0.434 | -10.2  | 101   | -0.03    |
| 57   | Fluorene                   | 1.445 | 1.543 | -6.8   | 103   | -0.03    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.274 | 0.292 | -6.6   | 105   | -0.05    |
| 59   | Diethylphthalate           | 1.497 | 1.486 | 0.7    | 93    | -0.03    |
| 60   | 4-Chlorophenyl-phenylether | 0.620 | 0.603 | 2.7    | 95    | -0.05    |
| 61   | 4-Nitroaniline             | 0.326 | 0.388 | -19.0  | 108   | -0.05    |
| 62   | Azobenzene                 | 1.535 | 1.582 | -3.1   | 98    | -0.05    |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 102   | -0.03    |
| 64   | 4,6-Dinitro-2-methylphenol | 0.113 | 0.126 | -11.5  | 105   | -0.03    |
| 65 c | n-Nitrosodiphenylamine     | 0.726 | 0.758 | -4.4   | 100   | -0.03    |
| 66   | 4-Bromophenyl-phenylether  | 0.208 | 0.208 | 0.0    | 92    | -0.03    |
| 67   | Hexachlorobenzene          | 0.217 | 0.226 | -4.1   | 100   | -0.03    |
| 68   | Atrazine                   | 0.220 | 0.230 | -4.5   | 98    | -0.03    |
| 69 C | Pentachlorophenol          | 0.073 | 0.088 | -20.5# | 112   | -0.03    |
| 70   | Phenanthrene               | 1.246 | 1.320 | -5.9   | 103   | -0.03    |
| 71   | Anthracene                 | 1.211 | 1.299 | -7.3   | 102   | -0.03    |
| 72   | Carbazole                  | 1.187 | 1.305 | -9.9   | 105   | -0.03    |
| 73   | Di-n-butylphthalate        | 1.410 | 1.364 | 3.3    | 91    | -0.03    |
| 74 C | Fluoranthene               | 1.277 | 1.386 | -8.5   | 107   | -0.05    |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 107   | -0.05    |
| 76   | Benzidine                  | 0.626 | 0.455 | 27.3#  | 86    | -0.03    |
| 77   | Pyrene                     | 1.439 | 1.457 | -1.3   | 106   | -0.03    |
| 78 S | Terphenyl-d14              | 0.911 | 0.865 | 5.0    | 100   | -0.03    |
| 79   | Butylbenzylphthalate       | 0.668 | 0.635 | 4.9    | 96    | -0.05    |
| 80   | Benzo(a)anthracene         | 1.274 | 1.323 | -3.8   | 108   | -0.05    |
| 81   | 3,3'-Dichlorobenzidine     | 0.407 | 0.407 | 0.0    | 105   | -0.03    |
| 82   | Chrysene                   | 1.153 | 1.237 | -7.3   | 111   | -0.03    |
| 83   | Bis(2-ethylhexyl)phthalate | 0.926 | 0.810 | 12.5   | 92    | -0.03    |
| 84 c | Di-n-octyl phthalate       | 1.562 | 1.415 | 9.4    | 94    | -0.05    |
| 85   | Indeno(1,2,3-cd)pyrene     | 1.141 | 1.401 | -22.8  | 126   | -0.08    |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0    | 124   | -0.06    |
| 87   | Benzo(b)fluoranthene       | 1.385 | 1.383 | 0.1    | 106   | -0.05    |

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| 88   | Benzo(k)fluoranthene   | 1.211 | 1.209 | 0.2  | 124   | -0.06    |
| 89 C | Benzo(a)pyrene         | 1.190 | 1.264 | -6.2 | 119   | -0.06    |
| 90   | Dibenzo(a,h)anthracene | 1.085 | 1.133 | -4.4 | 119   | -0.09    |
| 91   | Benzo(g,h,i)perylene   | 1.107 | 1.156 | -4.4 | 121   | -0.09    |

(#) = Out of Range

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