

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100515\  
 Data File : BF082052.D  
 Acq On : 5 Oct 2015 18:56  
 Operator : UM/IZ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Oct 06 05:04:42 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 05 17:58:12 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 102   | 0.00     |
| 2    | 1,4-Dioxane                 | 0.479 | 0.479 | 0.0   | 104   | 0.01     |
| 3    | Pyridine                    | 1.247 | 1.268 | -1.7  | 98    | 0.00     |
| 4    | n-Nitrosodimethylamine      | 0.567 | 0.506 | 10.8  | 92    | 0.01     |
| 5 S  | 2-Fluorophenol              | 1.102 | 1.047 | 5.0   | 99    | 0.00     |
| 6    | Aniline                     | 1.863 | 1.734 | 6.9   | 98    | 0.00     |
| 7 S  | Phenol-d6                   | 1.386 | 1.285 | 7.3   | 98    | 0.00     |
| 8    | 2-Chlorophenol              | 1.217 | 1.157 | 4.9   | 102   | 0.00     |
| 9    | Benzaldehyde                | 0.908 | 0.708 | 22.0  | 83    | 0.00     |
| 10 C | Phenol                      | 1.555 | 1.465 | 5.8   | 96    | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.206 | 1.199 | 0.6   | 110   | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.437 | 1.381 | 3.9   | 102   | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.501 | 1.462 | 2.6   | 103   | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.337 | 1.260 | 5.8   | 104   | 0.00     |
| 15   | Benzyl Alcohol              | 1.001 | 0.871 | 13.0  | 91    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.705 | 1.537 | 9.9   | 95    | 0.00     |
| 17   | 2-Methylphenol              | 0.986 | 0.974 | 1.2   | 103   | 0.00     |
| 18   | Hexachloroethane            | 0.470 | 0.467 | 0.6   | 106   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 0.843 | 0.768 | 8.9   | 93    | 0.00     |
| 20   | 3+4-Methylphenols           | 1.246 | 1.105 | 11.3  | 95    | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 22   | Acetophenone                | 0.409 | 0.393 | 3.9   | 102   | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.300 | 0.299 | 0.3   | 107   | 0.01     |
| 24   | Nitrobenzene                | 0.326 | 0.316 | 3.1   | 101   | 0.00     |
| 25   | Isophorone                  | 0.595 | 0.561 | 5.7   | 101   | 0.00     |
| 26 C | 2-Nitrophenol               | 0.156 | 0.170 | -9.0  | 110   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.275 | 0.274 | 0.4   | 103   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.353 | 0.318 | 9.9   | 101   | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.267 | 0.259 | 3.0   | 104   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.298 | 0.297 | 0.3   | 107   | 0.00     |
| 31   | Naphthalene                 | 0.886 | 0.822 | 7.2   | 105   | 0.00     |
| 32   | Benzoic acid                | 0.147 | 0.168 | -14.3 | 116   | 0.00     |
| 33   | 4-Chloroaniline             | 0.383 | 0.369 | 3.7   | 100   | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.176 | 0.176 | 0.0   | 107   | 0.00     |
| 35   | Caprolactam                 | 0.074 | 0.076 | -2.7  | 109   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.261 | 0.266 | -1.9  | 107   | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.605 | 0.572 | 5.5   | 99    | -0.01    |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 109   | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.614 | 0.599 | 2.4   | 110   | 0.00     |
| 40 P | Hexachlorocyclopentadiene   | 0.316 | 0.283 | 10.4  | 92    | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 0.203 | 0.184 | 9.4   | 104   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 0.421 | 0.418 | 0.7   | 108   | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 0.433 | 0.406 | 6.2   | 102   | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.262 | 1.145 | 9.3   | 100   | 0.00     |

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                   | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|----------------------------|-------|-------|--------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.543 | 1.367 | 11.4   | 101   | 0.00     |
| 46   | 2-Chloronaphthalene        | 1.212 | 1.123 | 7.3    | 101   | -0.01    |
| 47   | 2-Nitroaniline             | 0.356 | 0.337 | 5.3    | 109   | 0.00     |
| 48   | Acenaphthylene             | 1.939 | 1.893 | 2.4    | 113   | 0.00     |
| 49   | Dimethylphthalate          | 1.381 | 1.332 | 3.5    | 106   | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 0.300 | 0.287 | 4.3    | 108   | 0.00     |
| 51 C | Acenaphthene               | 1.151 | 1.155 | -0.3   | 113   | 0.00     |
| 52   | 3-Nitroaniline             | 0.347 | 0.349 | -0.6   | 106   | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.102 | 0.142 | -39.2# | 152#  | 0.00     |
| 54   | Dibenzofuran               | 1.627 | 1.528 | 6.1    | 111   | 0.00     |
| 55 P | 4-Nitrophenol              | 0.251 | 0.228 | 9.2    | 95    | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.382 | 0.408 | -6.8   | 116   | 0.00     |
| 57   | Fluorene                   | 1.289 | 1.254 | 2.7    | 115   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.343 | 0.362 | -5.5   | 117   | 0.00     |
| 59   | Diethylphthalate           | 1.290 | 1.263 | 2.1    | 107   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 0.596 | 0.547 | 8.2    | 107   | 0.00     |
| 61   | 4-Nitroaniline             | 0.348 | 0.358 | -2.9   | 117   | 0.00     |
| 62   | Azobenzene                 | 1.258 | 1.167 | 7.2    | 104   | 0.00     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 109   | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.087 | 0.106 | -21.8  | 123   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.605 | 0.593 | 2.0    | 109   | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 0.202 | 0.190 | 5.9    | 107   | 0.00     |
| 67   | Hexachlorobenzene          | 0.228 | 0.200 | 12.3   | 95    | 0.00     |
| 68   | Atrazine                   | 0.188 | 0.187 | 0.5    | 113   | 0.00     |
| 69 C | Pentachlorophenol          | 0.130 | 0.122 | 6.2    | 100   | 0.00     |
| 70   | Phenanthrene               | 1.050 | 0.915 | 12.9   | 106   | 0.00     |
| 71   | Anthracene                 | 1.017 | 1.013 | 0.4    | 113   | 0.00     |
| 72   | Carbazole                  | 0.920 | 0.890 | 3.3    | 106   | -0.01    |
| 73   | Di-n-butylphthalate        | 1.020 | 0.977 | 4.2    | 116   | 0.00     |
| 74 C | Fluoranthene               | 1.071 | 1.004 | 6.3    | 112   | 0.00     |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 114   | 0.00     |
| 76   | Benzidine                  | 0.603 | 0.622 | -3.2   | 106   | 0.00     |
| 77   | Pyrene                     | 1.195 | 1.103 | 7.7    | 101   | 0.00     |
| 78 S | Terphenyl-d14              | 0.697 | 0.726 | -4.2   | 132   | 0.00     |
| 79   | Butylbenzylphthalate       | 0.450 | 0.467 | -3.8   | 111   | 0.00     |
| 80   | Benzo(a)anthracene         | 1.077 | 1.042 | 3.2    | 112   | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 0.364 | 0.379 | -4.1   | 111   | 0.00     |
| 82   | Chrysene                   | 1.033 | 1.074 | -4.0   | 121   | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.564 | 0.651 | -15.4  | 130   | 0.00     |
| 84 c | Di-n-octyl phthalate       | 0.918 | 1.072 | -16.8  | 135   | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 0.842 | 0.820 | 2.6    | 110   | 0.00     |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0    | 117   | 0.00     |
| 87   | Benzo(b)fluoranthene       | 1.142 | 0.989 | 13.4   | 100   | 0.00     |

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|------|------------------------|-------|-------|-------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.047 | 1.197 | -14.3 | 149   | 0.00     |
| 89 C | Benzo(a)pyrene         | 0.990 | 0.994 | -0.4  | 120   | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 0.831 | 0.776 | 6.6   | 112   | 0.00     |
| 91   | Benzo(a,h,i)perylene   | 0.852 | 0.744 | 12.7  | 106   | 0.00     |

(#) = Out of Range

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