

Data Path : Z:\HPCHEM1\BNA\_F\Data\BF033116\  
 Data File : BF085923.D  
 Acq On : 31 Mar 2016 12:54  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Mar 31 23:00:46 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032416.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 30 12:31:18 2016  
 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   | 137   | -0.01    |
| 2    | 1,4-Dioxane                 | 0.573 | 0.582 | -1.6  | 141   | -0.01    |
| 3    | Pyridine                    | 1.375 | 1.539 | -11.9 | 146   | -0.02    |
| 4    | n-Nitrosodimethylamine      | 0.550 | 0.619 | -12.5 | 148   | -0.01    |
| 5 S  | 2-Fluorophenol              | 1.201 | 1.262 | -5.1  | 150#  | -0.01    |
| 6    | Aniline                     | 2.055 | 2.065 | -0.5  | 144   | 0.00     |
| 7 S  | Phenol-d6                   | 1.527 | 1.502 | 1.6   | 143   | -0.01    |
| 8    | 2-Chlorophenol              | 1.395 | 1.381 | 1.0   | 135   | -0.01    |
| 9    | Benzaldehyde                | 0.920 | 0.827 | 10.1  | 129   | -0.01    |
| 10 C | Phenol                      | 1.730 | 1.786 | -3.2  | 148   | -0.01    |
| 11   | bis(2-Chloroethyl)ether     | 1.331 | 1.314 | 1.3   | 141   | -0.01    |
| 12   | 1,3-Dichlorobenzene         | 1.503 | 1.566 | -4.2  | 142   | -0.01    |
| 13 C | 1,4-Dichlorobenzene         | 1.524 | 1.520 | 0.3   | 146   | -0.01    |
| 14   | 1,2-Dichlorobenzene         | 1.420 | 1.406 | 1.0   | 136   | -0.01    |
| 15   | Benzyl Alcohol              | 1.019 | 0.900 | 11.7  | 117   | -0.01    |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.766 | 1.705 | 3.5   | 135   | -0.01    |
| 17   | 2-Methylphenol              | 1.117 | 1.119 | -0.2  | 135   | -0.01    |
| 18   | Hexachloroethane            | 0.558 | 0.573 | -2.7  | 145   | -0.01    |
| 19 P | n-Nitroso-di-n-propylamine  | 0.914 | 0.843 | 7.8   | 121   | -0.01    |
| 20   | 3+4-Methylphenols           | 1.343 | 1.193 | 11.2  | 126   | -0.01    |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 140   | -0.01    |
| 22   | Acetophenone                | 0.466 | 0.438 | 6.0   | 141   | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.355 | 0.327 | 7.9   | 131   | -0.01    |
| 24   | Nitrobenzene                | 0.366 | 0.388 | -6.0  | 162#  | -0.01    |
| 25   | Isophorone                  | 0.684 | 0.662 | 3.2   | 145   | -0.01    |
| 26 C | 2-Nitrophenol               | 0.183 | 0.181 | 1.1   | 145   | -0.01    |
| 27   | 2,4-Dimethylphenol          | 0.320 | 0.289 | 9.7   | 122   | -0.01    |
| 28   | bis(2-Chloroethoxy)methane  | 0.390 | 0.356 | 8.7   | 127   | -0.01    |
| 29 C | 2,4-Dichlorophenol          | 0.269 | 0.275 | -2.2  | 150#  | -0.01    |
| 30   | 1,2,4-Trichlorobenzene      | 0.299 | 0.304 | -1.7  | 148   | -0.01    |
| 31   | Naphthalene                 | 1.008 | 0.979 | 2.9   | 147   | 0.00     |
| 32   | Benzoic acid                | 0.213 | 0.232 | -8.9  | 140   | 0.00     |
| 33   | 4-Chloroaniline             | 0.411 | 0.375 | 8.8   | 132   | -0.01    |
| 34 C | Hexachlorobutadiene         | 0.162 | 0.163 | -0.6  | 147   | -0.01    |
| 35   | Caprolactam                 | 0.095 | 0.095 | 0.0   | 153#  | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.314 | 0.283 | 9.9   | 139   | -0.01    |
| 37   | 2-Methylnaphthalene         | 0.635 | 0.564 | 11.2  | 131   | -0.01    |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 129   | -0.01    |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.593 | 0.675 | -13.8 | 146   | -0.01    |
| 40 P | Hexachlorocyclopentadiene   | 0.196 | 0.192 | 2.0   | 125   | -0.01    |
| 41 S | 2,4,6-Tribromophenol        | 0.190 | 0.194 | -2.1  | 130   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 0.401 | 0.422 | -5.2  | 139   | -0.01    |
| 43   | 2,4,5-Trichlorophenol       | 0.420 | 0.427 | -1.7  | 132   | -0.01    |
| 44 S | 2-Fluorobiphenyl            | 1.197 | 1.116 | 6.8   | 117   | -0.01    |

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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              | 1.688 | 1.760 | -4.3  | 135   | -0.01    |
| 46   | 2-Chloronaphthalene        | 1.241 | 1.283 | -3.4  | 128   | -0.01    |
| 47   | 2-Nitroaniline             | 0.379 | 0.435 | -14.8 | 159#  | -0.01    |
| 48   | Acenaphthylene             | 2.022 | 1.861 | 8.0   | 116   | -0.01    |
| 49   | Dimethylphthalate          | 1.517 | 1.604 | -5.7  | 146   | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 0.327 | 0.295 | 9.8   | 112   | -0.01    |
| 51 C | Acenaphthene               | 1.235 | 1.111 | 10.0  | 124   | -0.01    |
| 52   | 3-Nitroaniline             | 0.374 | 0.366 | 2.1   | 136   | -0.01    |
| 53 P | 2,4-Dinitrophenol          | 0.140 | 0.145 | -3.6  | 122   | -0.01    |
| 54   | Dibenzofuran               | 1.599 | 1.451 | 9.3   | 119   | -0.01    |
| 55 P | 4-Nitrophenol              | 0.244 | 0.249 | -2.0  | 127   | -0.01    |
| 56   | 2,4-Dinitrotoluene         | 0.415 | 0.432 | -4.1  | 123   | 0.00     |
| 57   | Fluorene                   | 1.329 | 1.223 | 8.0   | 116   | -0.01    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.292 | 0.304 | -4.1  | 138   | -0.01    |
| 59   | Diethylphthalate           | 1.499 | 1.528 | -1.9  | 137   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 0.650 | 0.626 | 3.7   | 137   | -0.01    |
| 61   | 4-Nitroaniline             | 0.358 | 0.379 | -5.9  | 130   | -0.01    |
| 62   | Azobenzene                 | 1.441 | 1.454 | -0.9  | 134   | -0.01    |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 124   | -0.01    |
| 64   | 4,6-Dinitro-2-methylphenol | 0.117 | 0.120 | -2.6  | 121   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.633 | 0.587 | 7.3   | 117   | -0.01    |
| 66   | 4-Bromophenyl-phenylether  | 0.205 | 0.202 | 1.5   | 126   | -0.01    |
| 67   | Hexachlorobenzene          | 0.214 | 0.208 | 2.8   | 118   | -0.01    |
| 68   | Atrazine                   | 0.214 | 0.196 | 8.4   | 120   | -0.01    |
| 69 C | Pentachlorophenol          | 0.105 | 0.101 | 3.8   | 113   | -0.01    |
| 70   | Phenanthrene               | 1.027 | 0.968 | 5.7   | 113   | -0.01    |
| 71   | Anthracene                 | 1.078 | 1.162 | -7.8  | 145   | -0.01    |
| 72   | Carbazole                  | 0.905 | 0.936 | -3.4  | 126   | -0.01    |
| 73   | Di-n-butylphthalate        | 1.242 | 1.123 | 9.6   | 119   | -0.01    |
| 74 C | Fluoranthene               | 1.092 | 1.078 | 1.3   | 130   | -0.01    |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 133   | -0.01    |
| 76   | Benzidine                  | 0.704 | 0.603 | 14.3  | 112   | -0.01    |
| 77   | Pyrene                     | 1.644 | 1.517 | 7.7   | 137   | -0.01    |
| 78 S | Terphenyl-d14              | 0.972 | 0.931 | 4.2   | 143   | 0.00     |
| 79   | Butylbenzylphthalate       | 0.688 | 0.694 | -0.9  | 138   | -0.01    |
| 80   | Benzo(a)anthracene         | 1.140 | 1.084 | 4.9   | 131   | -0.01    |
| 81   | 3,3'-Dichlorobenzidine     | 0.791 | 0.801 | -1.3  | 149   | -0.01    |
| 82   | Chrysene                   | 1.149 | 1.041 | 9.4   | 128   | -0.01    |
| 83   | Bis(2-ethylhexyl)phthalate | 0.824 | 0.828 | -0.5  | 134   | -0.01    |
| 84 c | Di-n-octyl phthalate       | 1.226 | 1.241 | -1.2  | 133   | -0.01    |
| 85   | Indeno(1,2,3-cd)pyrene     | 0.887 | 0.898 | -1.2  | 137   | -0.01    |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0   | 129   | -0.01    |
| 87   | Benzo(b)fluoranthene       | 1.260 | 1.191 | 5.5   | 120   | -0.01    |

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|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.136 | 1.190 | -4.8 | 146   | -0.01    |
| 89 C | Benzo(a)pyrene         | 1.119 | 1.098 | 1.9  | 129   | -0.01    |
| 90   | Dibenzo(a,h)anthracene | 1.039 | 1.069 | -2.9 | 136   | -0.02    |
| 91   | Benzo(g,h,i)perylene   | 1.052 | 1.083 | -2.9 | 136   | -0.01    |

(#) = Out of Range

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