

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051315\  
 Data File : BF079234.D  
 Acq On : 14 May 2015 11:33  
 Operator : TP/IZ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: May 14 15:49:37 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 14 15:23:47 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   | 107   | 0.00     |
| 2    | 1,4-Dioxane                 | 0.505 | 0.515  | -2.0  | 110   | 0.00     |
| 3    | Pyridine                    | 1.478 | 1.486  | -0.5  | 114   | -0.01    |
| 4    | n-Nitrosodimethylamine      | 0.633 | 0.677  | -7.0  | 117   | -0.01    |
| 5 S  | 2-Fluorophenol              | 1.162 | 1.227  | -5.6  | 116   | 0.00     |
| 6    | Aniline                     | 2.168 | 2.120  | 2.2   | 106   | 0.00     |
| 7 S  | Phenol-d6                   | 1.536 | 1.503  | 2.1   | 112   | 0.00     |
| 8    | 2-Chlorophenol              | 1.318 | 1.367  | -3.7  | 120   | 0.00     |
| 9    | Benzaldehyde                | 1.035 | 0.962  | 7.1   | 103   | 0.00     |
| 10 C | Phenol                      | 1.782 | 1.764  | 1.0   | 108   | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.306 | 1.317  | -0.8  | 117   | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.481 | 1.499  | -1.2  | 116   | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.524 | 1.560  | -2.4  | 116   | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.419 | 1.452  | -2.3  | 115   | 0.00     |
| 15   | Benzyl Alcohol              | 1.140 | 1.017  | 10.8  | 101   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.998 | 1.919  | 4.0   | 110   | 0.00     |
| 17   | 2-Methylphenol              | 1.060 | 1.091  | -2.9  | 117   | 0.00     |
| 18   | Hexachloroethane            | 0.525 | 0.483  | 8.0   | 101   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.037 | 0.982  | 5.3   | 102   | 0.00     |
| 20   | 3+4-Methylphenols           | 1.413 | 1.410  | 0.2   | 110   | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000  | 0.0   | 108   | 0.00     |
| 22   | Acetophenone                | 0.452 | 0.445  | 1.5   | 114   | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.348 | 0.344  | 1.1   | 112   | 0.00     |
| 24   | Nitrobenzene                | 0.345 | 0.348  | -0.9  | 118   | 0.00     |
| 25   | Isophorone                  | 0.645 | 0.636  | 1.4   | 111   | 0.00     |
| 26 C | 2-Nitrophenol               | 0.143 | 0.165  | -15.4 | 124   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.286 | 0.301  | -5.2  | 116   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.398 | 0.375  | 5.8   | 103   | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.254 | 0.265  | -4.3  | 117   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.279 | 0.281  | -0.7  | 114   | 0.00     |
| 31   | Naphthalene                 | 0.953 | 0.940  | 1.4   | 113   | 0.00     |
| 32   | Benzoic acid                | 0.164 | 0.175  | -6.7  | 110   | 0.01     |
| 33   | 4-Chloroaniline             | 0.403 | 0.419  | -4.0  | 120   | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.161 | 0.158  | 1.9   | 114   | 0.00     |
| 35   | Caprolactam                 | 0.082 | 0.093  | -13.4 | 125   | 0.01     |
| 36 C | 4-Chloro-3-methylphenol     | 0.267 | 0.271  | -1.5  | 107   | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.660 | 0.662  | -0.3  | 113   | 0.00     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000  | 0.0   | 109   | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.563 | 0.560  | 0.5   | 116   | 0.00     |
| 40 P | Hexachlorocyclopentadiene   | 0.283 | 0.048# | 83.0# | 19#   | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 0.216 | 0.218  | -0.9  | 110   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 0.387 | 0.388  | -0.3  | 111   | -0.01    |
| 43   | 2,4,5-Trichlorophenol       | 0.392 | 0.394  | -0.5  | 113   | -0.01    |
| 44 S | 2-Fluorobiphenyl            | 1.436 | 1.332  | 7.2   | 106   | 0.00     |

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

|      | Compound                   | AvgRF | CCRF   | %Dev  | Area% | Dev(min) |
|------|----------------------------|-------|--------|-------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.590 | 1.512  | 4.9   | 111   | -0.01    |
| 46   | 2-Chloronaphthalene        | 1.240 | 1.183  | 4.6   | 113   | 0.00     |
| 47   | 2-Nitroaniline             | 0.359 | 0.386  | -7.5  | 119   | 0.00     |
| 48   | Acenaphthylene             | 2.036 | 2.019  | 0.8   | 115   | 0.00     |
| 49   | Dimethylphthalate          | 1.468 | 1.427  | 2.8   | 115   | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 0.290 | 0.311  | -7.2  | 121   | 0.00     |
| 51 C | Acenaphthene               | 1.214 | 1.160  | 4.4   | 109   | 0.00     |
| 52   | 3-Nitroaniline             | 0.362 | 0.411  | -13.5 | 129   | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.085 | 0.027# | 68.2# | 36#   | -0.01    |
| 54   | Dibenzofuran               | 1.754 | 1.676  | 4.4   | 109   | 0.00     |
| 55 P | 4-Nitrophenol              | 0.286 | 0.285  | 0.3   | 114   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.383 | 0.383  | 0.0   | 108   | -0.01    |
| 57   | Fluorene                   | 1.440 | 1.382  | 4.0   | 113   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.320 | 0.314  | 1.9   | 109   | 0.00     |
| 59   | Diethylphthalate           | 1.454 | 1.357  | 6.7   | 108   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 0.639 | 0.588  | 8.0   | 105   | 0.00     |
| 61   | 4-Nitroaniline             | 0.362 | 0.412  | -13.8 | 125   | 0.00     |
| 62   | Azobenzene                 | 1.433 | 1.311  | 8.5   | 103   | 0.00     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000  | 0.0   | 107   | -0.01    |
| 64   | 4,6-Dinitro-2-methylphenol | 0.080 | 0.036  | 55.0# | 50#   | -0.01    |
| 65 c | n-Nitrosodiphenylamine     | 0.666 | 0.663  | 0.5   | 109   | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 0.208 | 0.211  | -1.4  | 116   | 0.00     |
| 67   | Hexachlorobenzene          | 0.238 | 0.233  | 2.1   | 113   | 0.00     |
| 68   | Atrazine                   | 0.194 | 0.190  | 2.1   | 113   | 0.00     |
| 69 C | Pentachlorophenol          | 0.120 | 0.126  | -5.0  | 114   | 0.00     |
| 70   | Phenanthrene               | 1.119 | 1.057  | 5.5   | 106   | 0.00     |
| 71   | Anthracene                 | 1.098 | 1.107  | -0.8  | 114   | 0.00     |
| 72   | Carbazole                  | 1.046 | 1.077  | -3.0  | 115   | 0.00     |
| 73   | Di-n-butylphthalate        | 1.255 | 1.256  | -0.1  | 108   | 0.00     |
| 74 C | Fluoranthene               | 1.166 | 1.261  | -8.1  | 121   | -0.01    |
| 75 I | Chrysene-d12               | 1.000 | 1.000  | 0.0   | 109   | 0.03     |
| 76   | Benzidine                  | 0.539 | 0.671  | -24.5 | 132   | 0.00     |
| 77   | Pyrene                     | 1.152 | 1.154  | -0.2  | 116   | 0.00     |
| 78 S | Terphenyl-d14              | 0.835 | 0.798  | 4.4   | 111   | 0.00     |
| 79   | Butylbenzylphthalate       | 0.504 | 0.566  | -12.3 | 120   | 0.01     |
| 80   | Benzo(a)anthracene         | 1.095 | 1.107  | -1.1  | 116   | 0.03     |
| 81   | 3,3'-Dichlorobenzidine     | 0.390 | 0.422  | -8.2  | 119   | 0.05     |
| 82   | Chrysene                   | 1.053 | 1.051  | 0.2   | 118   | 0.05     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.763 | 0.800  | -4.8  | 112   | 0.05     |
| 84 c | Di-n-octyl phthalate       | 1.344 | 1.439  | -7.1  | 122   | 0.13     |
| 85   | Indeno(1,2,3-cd)pyrene     | 1.342 | 1.243  | 7.4   | 106   | 0.22     |
| 86 I | Perylene-d12               | 1.000 | 1.000  | 0.0   | 109   | 0.18     |
| 87   | Benzo(b)fluoranthene       | 1.095 | 1.187  | -8.4  | 122   | 0.15     |

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|------|------------------------|-------|-------|-------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.060 | 1.174 | -10.8 | 124   | 0.15     |
| 89 C | Benzo(a)pyrene         | 1.008 | 1.104 | -9.5  | 123   | 0.17     |
| 90   | Dibenzo(a,h)anthracene | 1.071 | 1.036 | 3.3   | 108   | 0.22     |
| 91   | Benzo(a,h,i)perylene   | 1.074 | 1.005 | 6.4   | 106   | 0.23     |

(#) = Out of Range

SPCC's out = 2 CCC's out = 0