

Data Path : Z:\HPCHEM1\BNA M\Data\BM081717\  
 Data File : BM011267.D  
 Acq On : 17 Aug 2017 15:08  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 LabSampleId :  
 SSTDCCC040

Quant Time: Aug 18 00:58:38 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-BM072617.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 16 02:25:04 2017  
 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    | 40#   | -0.01    |
| 2    | 1,4-Dioxane                 | 0.531 | 0.682 | -28.4# | 53    | -0.01    |
| 3    | Pyridine                    | 1.451 | 1.886 | -30.0# | 52    | -0.01    |
| 4    | n-Nitrosodimethylamine      | 0.739 | 1.073 | -45.2# | 58    | -0.02    |
| 5 S  | 2-Fluorophenol              | 1.183 | 1.334 | -12.8  | 46#   | -0.01    |
| 6    | Aniline                     | 2.119 | 2.477 | -16.9  | 47#   | -0.02    |
| 7 S  | Phenol-d6                   | 1.681 | 1.961 | -16.7  | 46#   | -0.01    |
| 8    | 2-Chlorophenol              | 1.201 | 1.283 | -6.8   | 43#   | -0.01    |
| 9    | Benzaldehyde                | 1.088 | 1.254 | -15.3  | 48#   | -0.02    |
| 10 C | Phenol                      | 1.826 | 2.165 | -18.6  | 48#   | -0.01    |
| 11   | bis(2-Chloroethyl)ether     | 1.423 | 1.641 | -15.3  | 47#   | -0.01    |
| 12   | 1,3-Dichlorobenzene         | 1.464 | 1.582 | -8.1   | 45#   | -0.02    |
| 13 C | 1,4-Dichlorobenzene         | 1.501 | 1.663 | -10.8  | 45#   | -0.01    |
| 14   | 1,2-Dichlorobenzene         | 1.435 | 1.502 | -4.7   | 43#   | -0.02    |
| 15   | Benzyl Alcohol              | 1.613 | 2.030 | -25.9# | 51    | -0.01    |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.280 | 1.621 | -26.6# | 52    | 0.00     |
| 17   | 2-Methylphenol              | 1.167 | 1.295 | -11.0  | 45#   | -0.02    |
| 18   | Hexachloroethane            | 0.654 | 0.777 | -18.8  | 48#   | -0.01    |
| 19 P | n-Nitroso-di-n-propylamine  | 1.428 | 1.971 | -38.0# | 56    | -0.01    |
| 20   | 3+4-Methylphenols           | 1.622 | 1.814 | -11.8  | 45#   | -0.02    |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0    | 39#   | -0.02    |
| 22   | Acetophenone                | 0.600 | 0.674 | -12.3  | 45#   | -0.02    |
| 23 S | Nitrobenzene-d5             | 0.533 | 0.708 | -32.8# | 52    | -0.02    |
| 24   | Nitrobenzene                | 0.552 | 0.757 | -37.1# | 54    | -0.02    |
| 25   | Isophorone                  | 0.888 | 1.145 | -28.9# | 52    | -0.02    |
| 26 C | 2-Nitrophenol               | 0.176 | 0.197 | -11.9  | 43#   | -0.02    |
| 27   | 2,4-Dimethylphenol          | 0.309 | 0.346 | -12.0  | 44#   | -0.01    |
| 28   | bis(2-Chloroethoxy)methane  | 0.496 | 0.586 | -18.1  | 47#   | -0.01    |
| 29 C | 2,4-Dichlorophenol          | 0.348 | 0.380 | -9.2   | 43#   | -0.02    |
| 30   | 1,2,4-Trichlorobenzene      | 0.430 | 0.480 | -11.6  | 45#   | -0.02    |
| 31   | Naphthalene                 | 1.006 | 1.076 | -7.0   | 43#   | -0.02    |
| 32   | Benzoic acid                | 0.249 | 0.244 | 2.0    | 39#   | -0.03    |
| 33   | 4-Chloroaniline             | 0.401 | 0.411 | -2.5   | 41#   | -0.01    |
| 34 C | Hexachlorobutadiene         | 0.338 | 0.413 | -22.2# | 48#   | -0.02    |
| 35   | Caprolactam                 | 0.099 | 0.118 | -19.2  | 50    | -0.02    |
| 36 C | 4-Chloro-3-methylphenol     | 0.449 | 0.538 | -19.8  | 48#   | -0.02    |
| 37   | 2-Methylnaphthalene         | 0.739 | 0.817 | -10.6  | 44#   | -0.02    |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0    | 45#   | -0.02    |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.859 | 0.925 | -7.7   | 49#   | -0.02    |
| 40 P | Hexachlorocyclopentadiene   | 0.501 | 0.498 | 0.6    | 44#   | -0.02    |
| 41 S | 2,4,6-Tribromophenol        | 0.321 | 0.339 | -5.6   | 49#   | -0.02    |
| 42 C | 2,4,6-Trichlorophenol       | 0.520 | 0.560 | -7.7   | 47#   | -0.01    |
| 43   | 2,4,5-Trichlorophenol       | 0.536 | 0.559 | -4.3   | 47#   | -0.02    |
| 44 S | 2-Fluorobiphenyl            | 1.595 | 1.658 | -3.9   | 47#   | -0.02    |

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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                   | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|----------------------------|-------|-------|--------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.729 | 1.752 | -1.3   | 46#   | -0.01    |
| 46   | 2-Chloronaphthalene        | 1.274 | 1.299 | -2.0   | 46#   | -0.02    |
| 47   | 2-Nitroaniline             | 0.451 | 0.623 | -38.1# | 61    | -0.02    |
| 48   | Acenaphthylene             | 1.902 | 1.986 | -4.4   | 47#   | -0.02    |
| 49   | Dimethylphthalate          | 1.711 | 1.770 | -3.4   | 48#   | -0.02    |
| 50   | 2,6-Dinitrotoluene         | 0.346 | 0.371 | -7.2   | 48#   | -0.01    |
| 51 C | Acenaphthene               | 1.177 | 1.254 | -6.5   | 49#   | -0.01    |
| 52   | 3-Nitroaniline             | 0.300 | 0.303 | -1.0   | 46#   | -0.02    |
| 53 P | 2,4-Dinitrophenol          | 0.246 | 0.271 | -10.2  | 51    | -0.02    |
| 54   | Dibenzofuran               | 1.908 | 2.044 | -7.1   | 49#   | -0.02    |
| 55 P | 4-Nitrophenol              | 0.264 | 0.223 | 15.5   | 38#   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.486 | 0.540 | -11.1  | 50#   | -0.02    |
| 57   | Fluorene                   | 1.661 | 1.782 | -7.3   | 50#   | -0.02    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.502 | 0.578 | -15.1  | 53    | -0.01    |
| 59   | Diethylphthalate           | 1.747 | 1.916 | -9.7   | 51    | -0.01    |
| 60   | 4-Chlorophenyl-phenylether | 1.003 | 1.109 | -10.6  | 52    | -0.02    |
| 61   | 4-Nitroaniline             | 0.319 | 0.269 | 15.7   | 39#   | -0.02    |
| 62   | Azobenzene                 | 1.870 | 2.513 | -34.4# | 62    | -0.02    |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 49#   | -0.01    |
| 64   | 4,6-Dinitro-2-methylphenol | 0.135 | 0.152 | -12.6  | 54    | -0.01    |
| 65 c | n-Nitrosodiphenylamine     | 0.572 | 0.603 | -5.4   | 52    | -0.01    |
| 66   | 4-Bromophenyl-phenylether  | 0.257 | 0.272 | -5.8   | 52    | -0.01    |
| 67   | Hexachlorobenzene          | 0.291 | 0.299 | -2.7   | 50    | -0.02    |
| 68   | Atrazine                   | 0.229 | 0.239 | -4.4   | 50#   | -0.01    |
| 69 C | Pentachlorophenol          | 0.184 | 0.200 | -8.7   | 52    | -0.01    |
| 70   | Phenanthrene               | 1.047 | 1.180 | -12.7  | 55    | -0.01    |
| 71   | Anthracene                 | 1.044 | 1.153 | -10.4  | 54    | -0.02    |
| 72   | Carbazole                  | 0.913 | 1.040 | -13.9  | 57    | -0.02    |
| 73   | Di-n-butylphthalate        | 1.112 | 1.250 | -12.4  | 54    | -0.02    |
| 74 C | Fluoranthene               | 1.298 | 1.565 | -20.6# | 60    | -0.01    |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 58    | -0.02    |
| 76   | Benzidine                  | 0.478 | 0.281 | 41.2#  | 33#   | -0.01    |
| 77   | Pyrene                     | 1.188 | 1.216 | -2.4   | 61    | -0.02    |
| 78 S | Terphenyl-d14              | 1.010 | 1.049 | -3.9   | 60    | -0.01    |
| 79   | Butylbenzylphthalate       | 0.423 | 0.454 | -7.3   | 61    | -0.01    |
| 80   | Benzo(a)anthracene         | 1.142 | 1.252 | -9.6   | 65    | -0.01    |
| 81   | 3,3'-Dichlorobenzidine     | 0.448 | 0.481 | -7.4   | 62    | -0.02    |
| 82   | Chrysene                   | 1.096 | 1.206 | -10.0  | 66    | -0.01    |
| 83   | Bis(2-ethylhexyl)phthalate | 0.622 | 0.656 | -5.5   | 61    | -0.02    |
| 84 c | Di-n-octyl phthalate       | 1.009 | 1.116 | -10.6  | 63    | -0.01    |
| 85   | Indeno(1,2,3-cd)pyrene     | 1.135 | 1.246 | -9.8   | 67    | -0.03    |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0    | 61    | -0.02    |
| 87   | Benzo(b)fluoranthene       | 1.284 | 1.405 | -9.4   | 67    | -0.02    |

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| 88   | Benzo(k)fluoranthene   | 1.230 | 1.287 | -4.6 | 65    | -0.02    |
| 89 C | Benzo(a)pyrene         | 1.162 | 1.265 | -8.9 | 67    | -0.02    |
| 90   | Dibenzo(a,h)anthracene | 1.077 | 1.131 | -5.0 | 67    | -0.03    |
| 91   | Benzo(a,h,i)perylene   | 1.057 | 1.135 | -7.4 | 67    | -0.03    |

(#) = Out of Range

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