

Data Path : Z:\HPCHEM1\BNA M\Data\BM071817\  
 Data File : BM010877.D  
 Acq On : 18 Jul 2017 19:05  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jul 19 01:01:00 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-BM071217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 12 14:21:16 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   | 129   | -0.01    |
| 2    | 1,4-Dioxane                 | 0.533 | 0.458 | 14.1  | 110   | 0.00     |
| 3    | Pyridine                    | 1.456 | 1.394 | 4.3   | 119   | 0.00     |
| 4    | n-Nitrosodimethylamine      | 0.744 | 0.691 | 7.1   | 120   | 0.00     |
| 5 S  | 2-Fluorophenol              | 1.207 | 1.219 | -1.0  | 130   | 0.00     |
| 6    | Aniline                     | 2.085 | 2.213 | -6.1  | 137   | 0.00     |
| 7 S  | Phenol-d6                   | 1.664 | 1.791 | -7.6  | 139   | 0.00     |
| 8    | 2-Chlorophenol              | 1.195 | 1.189 | 0.5   | 126   | 0.00     |
| 9    | Benzaldehyde                | 1.156 | 1.174 | -1.6  | 130   | 0.00     |
| 10 C | Phenol                      | 1.760 | 1.794 | -1.9  | 131   | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.355 | 1.447 | -6.8  | 139   | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.477 | 1.455 | 1.5   | 129   | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.525 | 1.507 | 1.2   | 130   | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.453 | 1.436 | 1.2   | 130   | 0.00     |
| 15   | Benzyl Alcohol              | 1.576 | 1.609 | -2.1  | 133   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.175 | 1.274 | -8.4  | 139   | 0.00     |
| 17   | 2-Methylphenol              | 1.138 | 1.276 | -12.1 | 142   | 0.00     |
| 18   | Hexachloroethane            | 0.639 | 0.651 | -1.9  | 134   | -0.01    |
| 19 P | n-Nitroso-di-n-propylamine  | 1.318 | 1.472 | -11.7 | 147   | 0.00     |
| 20   | 3+4-Methylphenols           | 1.581 | 1.783 | -12.8 | 144   | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 140   | 0.00     |
| 22   | Acetophenone                | 0.602 | 0.591 | 1.8   | 141   | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.520 | 0.512 | 1.5   | 139   | 0.00     |
| 24   | Nitrobenzene                | 0.533 | 0.531 | 0.4   | 142   | 0.00     |
| 25   | Isophorone                  | 0.852 | 0.898 | -5.4  | 148   | 0.00     |
| 26 C | 2-Nitrophenol               | 0.177 | 0.179 | -1.1  | 144   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.317 | 0.304 | 4.1   | 135   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.478 | 0.505 | -5.6  | 148   | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.358 | 0.349 | 2.5   | 138   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.437 | 0.422 | 3.4   | 138   | -0.01    |
| 31   | Naphthalene                 | 1.017 | 1.051 | -3.3  | 146   | 0.00     |
| 32   | Benzoic acid                | 0.248 | 0.240 | 3.2   | 131   | 0.02     |
| 33   | 4-Chloroaniline             | 0.410 | 0.432 | -5.4  | 146   | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.339 | 0.320 | 5.6   | 133   | -0.01    |
| 35   | Caprolactam                 | 0.095 | 0.107 | -12.6 | 152#  | 0.01     |
| 36 C | 4-Chloro-3-methylphenol     | 0.433 | 0.442 | -2.1  | 142   | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.730 | 0.807 | -10.5 | 158#  | 0.00     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 147   | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.872 | 0.840 | 3.7   | 142   | 0.00     |
| 40 P | Hexachlorocyclopentadiene   | 0.500 | 0.514 | -2.8  | 145   | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 0.306 | 0.333 | -8.8  | 159#  | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 0.537 | 0.515 | 4.1   | 143   | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 0.530 | 0.550 | -3.8  | 147   | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.608 | 1.646 | -2.4  | 153#  | 0.00     |

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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              | 1.742 | 1.610 | 7.6   | 137   | 0.00     |
| 46   | 2-Chloronaphthalene        | 1.278 | 1.300 | -1.7  | 152#  | 0.00     |
| 47   | 2-Nitroaniline             | 0.420 | 0.469 | -11.7 | 159#  | 0.00     |
| 48   | Acenaphthylene             | 1.900 | 2.081 | -9.5  | 160#  | 0.00     |
| 49   | Dimethylphthalate          | 1.701 | 1.653 | 2.8   | 145   | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 0.334 | 0.369 | -10.5 | 161#  | 0.00     |
| 51 C | Acenaphthene               | 1.161 | 1.264 | -8.9  | 162#  | 0.00     |
| 52   | 3-Nitroaniline             | 0.303 | 0.325 | -7.3  | 156#  | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.231 | 0.235 | -1.7  | 147   | 0.00     |
| 54   | Dibenzofuran               | 1.878 | 1.937 | -3.1  | 153#  | 0.00     |
| 55 P | 4-Nitrophenol              | 0.263 | 0.253 | 3.8   | 138   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.463 | 0.506 | -9.3  | 155#  | 0.00     |
| 57   | Fluorene                   | 1.615 | 1.755 | -8.7  | 161#  | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.492 | 0.519 | -5.5  | 152#  | 0.00     |
| 59   | Diethylphthalate           | 1.680 | 1.694 | -0.8  | 148   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 0.992 | 1.016 | -2.4  | 155#  | 0.00     |
| 61   | 4-Nitroaniline             | 0.317 | 0.336 | -6.0  | 150   | 0.00     |
| 62   | Azobenzene                 | 1.706 | 1.827 | -7.1  | 156#  | 0.00     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 145   | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.132 | 0.140 | -6.1  | 152#  | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.572 | 0.606 | -5.9  | 153#  | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 0.253 | 0.273 | -7.9  | 154#  | 0.00     |
| 67   | Hexachlorobenzene          | 0.290 | 0.290 | 0.0   | 147   | 0.00     |
| 68   | Atrazine                   | 0.237 | 0.219 | 7.6   | 131   | 0.00     |
| 69 C | Pentachlorophenol          | 0.186 | 0.180 | 3.2   | 135   | 0.00     |
| 70   | Phenanthrene               | 1.040 | 1.119 | -7.6  | 156#  | 0.00     |
| 71   | Anthracene                 | 1.033 | 1.136 | -10.0 | 158#  | 0.00     |
| 72   | Carbazole                  | 0.910 | 1.014 | -11.4 | 161#  | 0.00     |
| 73   | Di-n-butylphthalate        | 1.076 | 1.091 | -1.4  | 142   | 0.00     |
| 74 C | Fluoranthene               | 1.289 | 1.324 | -2.7  | 148   | 0.00     |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 121   | 0.00     |
| 76   | Benzidine                  | 0.535 | 0.445 | 16.8  | 93    | 0.00     |
| 77   | Pyrene                     | 1.159 | 1.384 | -19.4 | 144   | 0.00     |
| 78 S | Terphenyl-d14              | 1.034 | 1.005 | 2.8   | 119   | 0.00     |
| 79   | Butylbenzylphthalate       | 0.406 | 0.446 | -9.9  | 129   | 0.00     |
| 80   | Benzo(a)anthracene         | 1.159 | 1.255 | -8.3  | 131   | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 0.456 | 0.458 | -0.4  | 118   | 0.00     |
| 82   | Chrysene                   | 1.104 | 1.167 | -5.7  | 128   | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.591 | 0.617 | -4.4  | 119   | 0.00     |
| 84 c | Di-n-octyl phthalate       | 0.969 | 0.965 | 0.4   | 116   | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 1.266 | 1.137 | 10.2  | 109   | -0.01    |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0   | 109   | 0.00     |
| 87   | Benzo(b)fluoranthene       | 1.270 | 1.415 | -11.4 | 121   | 0.00     |

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|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.213 | 1.319 | -8.7 | 119   | 0.00     |
| 89 C | Benzo(a)pyrene         | 1.156 | 1.264 | -9.3 | 119   | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 1.122 | 1.166 | -3.9 | 113   | -0.01    |
| 91   | Benzo(a,h,i)perylene   | 1.103 | 1.145 | -3.8 | 113   | -0.01    |

(#) = Out of Range

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