

Data Path : Z:\HPCHEM1\BNA\_F\Data\BF110617\  
 Data File : BF100244.D  
 Acq On : 6 Nov 2017 11:39  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Nov 06 13:29:59 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 03 15:46:10 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                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 88    | 0.05     |
| 2    | 1,4-Dioxane                 | 0.563 | 0.584 | -3.7   | 90    | 0.06     |
| 3    | Pyridine                    | 1.353 | 1.424 | -5.2   | 86    | 0.08     |
| 4    | n-Nitrosodimethylamine      | 0.483 | 0.495 | -2.5   | 83    | 0.08     |
| 5 S  | 2-Fluorophenol              | 1.274 | 1.443 | -13.3  | 97    | 0.05     |
| 6    | Aniline                     | 1.959 | 2.152 | -9.9   | 95    | 0.05     |
| 7 S  | Phenol-d6                   | 1.511 | 1.659 | -9.8   | 96    | 0.05     |
| 8    | 2-Chlorophenol              | 1.358 | 1.528 | -12.5  | 96    | 0.05     |
| 9    | Benzaldehyde                | 0.903 | 0.854 | 5.4    | 82    | 0.05     |
| 10 C | Phenol                      | 1.658 | 1.768 | -6.6   | 92    | 0.05     |
| 11   | bis(2-Chloroethyl)ether     | 1.281 | 1.388 | -8.4   | 92    | 0.05     |
| 12   | 1,3-Dichlorobenzene         | 1.524 | 1.658 | -8.8   | 95    | 0.05     |
| 13 C | 1,4-Dichlorobenzene         | 1.547 | 1.705 | -10.2  | 96    | 0.05     |
| 14   | 1,2-Dichlorobenzene         | 1.410 | 1.513 | -7.3   | 94    | 0.05     |
| 15   | Benzyl Alcohol              | 0.961 | 1.113 | -15.8  | 103   | 0.05     |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.423 | 1.459 | -2.5   | 89    | 0.05     |
| 17   | 2-Methylphenol              | 1.136 | 1.279 | -12.6  | 98    | 0.05     |
| 18   | Hexachloroethane            | 0.516 | 0.532 | -3.1   | 90    | 0.05     |
| 19 P | n-Nitroso-di-n-propylamine  | 0.885 | 0.982 | -11.0  | 99    | 0.05     |
| 20   | 3+4-Methylphenols           | 1.322 | 1.645 | -24.4  | 111   | 0.05     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0    | 91    | 0.05     |
| 22   | Acetophenone                | 0.455 | 0.493 | -8.4   | 101   | 0.05     |
| 23 S | Nitrobenzene-d5             | 0.311 | 0.321 | -3.2   | 94    | 0.05     |
| 24   | Nitrobenzene                | 0.313 | 0.330 | -5.4   | 93    | 0.05     |
| 25   | Isophorone                  | 0.564 | 0.590 | -4.6   | 95    | 0.05     |
| 26 C | 2-Nitrophenol               | 0.179 | 0.194 | -8.4   | 93    | 0.05     |
| 27   | 2,4-Dimethylphenol          | 0.264 | 0.294 | -11.4  | 100   | 0.05     |
| 28   | bis(2-Chloroethoxy)methane  | 0.395 | 0.412 | -4.3   | 95    | 0.05     |
| 29 C | 2,4-Dichlorophenol          | 0.274 | 0.310 | -13.1  | 101   | 0.05     |
| 30   | 1,2,4-Trichlorobenzene      | 0.293 | 0.306 | -4.4   | 93    | 0.05     |
| 31   | Naphthalene                 | 0.965 | 1.027 | -6.4   | 97    | 0.05     |
| 32   | Benzoic acid                | 0.233 | 0.271 | -16.3  | 107   | 0.06     |
| 33   | 4-Chloroaniline             | 0.399 | 0.450 | -12.8  | 101   | 0.05     |
| 34 C | Hexachlorobutadiene         | 0.151 | 0.155 | -2.6   | 94    | 0.05     |
| 35   | Caprolactam                 | 0.086 | 0.098 | -14.0  | 100   | 0.04     |
| 36 C | 4-Chloro-3-methylphenol     | 0.280 | 0.307 | -9.6   | 99    | 0.05     |
| 37   | 2-Methylnaphthalene         | 0.647 | 0.687 | -6.2   | 98    | 0.05     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0    | 89    | 0.05     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.646 | 0.707 | -9.4   | 98    | 0.05     |
| 40 P | Hexachlorocyclopentadiene   | 0.093 | 0.124 | -33.3# | 114   | 0.05     |
| 41 S | 2,4,6-Tribromophenol        | 0.182 | 0.199 | -9.3   | 98    | 0.05     |
| 42 C | 2,4,6-Trichlorophenol       | 0.391 | 0.412 | -5.4   | 95    | 0.05     |
| 43   | 2,4,5-Trichlorophenol       | 0.415 | 0.407 | 1.9    | 84    | 0.05     |
| 44 S | 2-Fluorobiphenyl            | 1.296 | 1.372 | -5.9   | 93    | 0.05     |

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

|      | Compound                   | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|----------------------------|-------|-------|--------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.809 | 1.938 | -7.1   | 97    | 0.05     |
| 46   | 2-Chloronaphthalene        | 1.314 | 1.419 | -8.0   | 96    | 0.05     |
| 47   | 2-Nitroaniline             | 0.345 | 0.383 | -11.0  | 97    | 0.05     |
| 48   | Acenaphthylene             | 2.024 | 2.195 | -8.4   | 98    | 0.05     |
| 49   | Dimethylphthalate          | 1.584 | 1.598 | -0.9   | 90    | 0.05     |
| 50   | 2,6-Dinitrotoluene         | 0.333 | 0.373 | -12.0  | 98    | 0.05     |
| 51 C | Acenaphthene               | 1.237 | 1.338 | -8.2   | 98    | 0.05     |
| 52   | 3-Nitroaniline             | 0.392 | 0.451 | -15.1  | 101   | 0.05     |
| 53 P | 2,4-Dinitrophenol          | 0.114 | 0.154 | -35.1# | 114   | 0.04     |
| 54   | Dibenzofuran               | 1.746 | 1.936 | -10.9  | 101   | 0.05     |
| 55 P | 4-Nitrophenol              | 0.205 | 0.168 | 18.0   | 69    | 0.05     |
| 56   | 2,4-Dinitrotoluene         | 0.401 | 0.504 | -25.7# | 111   | 0.05     |
| 57   | Fluorene                   | 1.445 | 1.576 | -9.1   | 99    | 0.05     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.291 | 0.323 | -11.0  | 97    | 0.05     |
| 59   | Diethylphthalate           | 1.547 | 1.575 | -1.8   | 92    | 0.05     |
| 60   | 4-Chlorophenyl-phenylether | 0.680 | 0.736 | -8.2   | 99    | 0.05     |
| 61   | 4-Nitroaniline             | 0.374 | 0.440 | -17.6  | 102   | 0.05     |
| 62   | Azobenzene                 | 1.297 | 1.344 | -3.6   | 92    | 0.05     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 91    | 0.05     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.126 | 0.140 | -11.1  | 98    | 0.05     |
| 65 c | n-Nitrosodiphenylamine     | 0.738 | 0.775 | -5.0   | 98    | 0.05     |
| 66   | 4-Bromophenyl-phenylether  | 0.211 | 0.220 | -4.3   | 97    | 0.05     |
| 67   | Hexachlorobenzene          | 0.215 | 0.222 | -3.3   | 94    | 0.05     |
| 68   | Atrazine                   | 0.222 | 0.226 | -1.8   | 92    | 0.05     |
| 69 C | Pentachlorophenol          | 0.092 | 0.077 | 16.3   | 77    | 0.06     |
| 70   | Phenanthrene               | 1.129 | 1.176 | -4.2   | 97    | 0.05     |
| 71   | Anthracene                 | 1.146 | 1.218 | -6.3   | 99    | 0.05     |
| 72   | Carbazole                  | 1.077 | 1.175 | -9.1   | 101   | 0.05     |
| 73   | Di-n-butylphthalate        | 1.374 | 1.323 | 3.7    | 88    | 0.05     |
| 74 C | Fluoranthene               | 1.173 | 1.239 | -5.6   | 98    | 0.06     |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 94    | 0.06     |
| 76   | Benzidine                  | 0.875 | 0.841 | 3.9    | 92    | 0.05     |
| 77   | Pyrene                     | 1.521 | 1.577 | -3.7   | 97    | 0.06     |
| 78 S | Terphenyl-d14              | 0.915 | 0.897 | 2.0    | 94    | 0.05     |
| 79   | Butylbenzylphthalate       | 0.749 | 0.716 | 4.4    | 87    | 0.05     |
| 80   | Benzo(a)anthracene         | 1.268 | 1.302 | -2.7   | 96    | 0.06     |
| 81   | 3,3'-Dichlorobenzidine     | 0.460 | 0.477 | -3.7   | 96    | 0.06     |
| 82   | Chrysene                   | 1.192 | 1.263 | -6.0   | 99    | 0.05     |
| 83   | Bis(2-ethylhexyl)phthalate | 1.052 | 0.857 | 18.5   | 78    | 0.05     |
| 84 c | Di-n-octyl phthalate       | 1.805 | 1.610 | 10.8   | 82    | 0.05     |
| 85   | Indeno(1,2,3-cd)pyrene     | 1.094 | 1.143 | -4.5   | 103   | 0.12     |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0    | 103   | 0.07     |
| 87   | Benzo(b)fluoranthene       | 1.263 | 1.299 | -2.9   | 111   | 0.06     |

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|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.191 | 1.209 | -1.5 | 99    | 0.07     |
| 89 C | Benzo(a)pyrene         | 1.134 | 1.179 | -4.0 | 106   | 0.08     |
| 90   | Dibenzo(a,h)anthracene | 1.008 | 0.976 | 3.2  | 103   | 0.12     |
| 91   | Benzo(g,h,i)perylene   | 0.986 | 0.933 | 5.4  | 100   | 0.12     |

(#) = Out of Range

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