

Data Path : Z:\HPCHEM1\BNA F\Data\BF042618\  
 Data File : BF104831.D  
 Acq On : 26 Apr 2018 12:35  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Apr 27 11:39:22 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 25 14:01:50 2018  
 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    | 80    | 0.00     |
| 2    | 1,4-Dioxane                 | 0.609 | 0.533 | 12.5   | 69    | -0.01    |
| 3    | Pyridine                    | 1.714 | 1.469 | 14.3   | 68    | -0.02    |
| 4    | n-Nitrosodimethylamine      | 0.599 | 0.485 | 19.0   | 64    | -0.02    |
| 5 S  | 2-Fluorophenol              | 1.308 | 1.205 | 7.9    | 75    | 0.00     |
| 6    | Aniline                     | 2.233 | 1.966 | 12.0   | 70    | 0.00     |
| 7 S  | Phenol-d6                   | 1.607 | 1.462 | 9.0    | 74    | 0.00     |
| 8    | 2-Chlorophenol              | 1.381 | 1.329 | 3.8    | 77    | 0.00     |
| 9    | Benzaldehyde                | 0.802 | 0.707 | 11.8   | 68    | 0.00     |
| 10 C | Phenol                      | 1.705 | 1.628 | 4.5    | 78    | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.361 | 1.236 | 9.2    | 72    | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.564 | 1.495 | 4.4    | 77    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.559 | 1.506 | 3.4    | 77    | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.445 | 1.384 | 4.2    | 76    | 0.00     |
| 15   | Benzyl Alcohol              | 1.221 | 1.105 | 9.5    | 73    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.827 | 1.476 | 19.2   | 65    | 0.00     |
| 17   | 2-Methylphenol              | 1.200 | 1.129 | 5.9    | 75    | 0.00     |
| 18   | Hexachloroethane            | 0.556 | 0.539 | 3.1    | 78    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.050 | 0.873 | 16.9   | 70    | 0.00     |
| 20   | 3+4-Methylphenols           | 1.488 | 1.404 | 5.6    | 76    | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0    | 81    | 0.00     |
| 22   | Acetophenone                | 0.492 | 0.452 | 8.1    | 75    | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.306 | 0.321 | -4.9   | 83    | 0.00     |
| 24   | Nitrobenzene                | 0.338 | 0.334 | 1.2    | 77    | 0.00     |
| 25   | Isophorone                  | 0.648 | 0.573 | 11.6   | 72    | 0.00     |
| 26 C | 2-Nitrophenol               | 0.138 | 0.178 | -29.0# | 99    | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.286 | 0.253 | 11.5   | 71    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.396 | 0.359 | 9.3    | 74    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.273 | 0.264 | 3.3    | 78    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.299 | 0.290 | 3.0    | 79    | 0.00     |
| 31   | Naphthalene                 | 0.996 | 0.939 | 5.7    | 77    | 0.00     |
| 32   | Benzoic acid                | 0.228 | 0.189 | 17.1   | 63    | -0.01    |
| 33   | 4-Chloroaniline             | 0.427 | 0.413 | 3.3    | 79    | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.164 | 0.160 | 2.4    | 80    | 0.00     |
| 35   | Caprolactam                 | 0.095 | 0.088 | 7.4    | 73    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.292 | 0.284 | 2.7    | 79    | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.644 | 0.616 | 4.3    | 78    | 0.00     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0    | 82    | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.573 | 0.570 | 0.5    | 84    | 0.00     |
| 40 P | Hexachlorocyclopentadiene   | 0.321 | 0.365 | -13.7  | 92    | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 0.207 | 0.206 | 0.5    | 82    | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 0.397 | 0.373 | 6.0    | 76    | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 0.445 | 0.431 | 3.1    | 80    | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.266 | 1.203 | 5.0    | 80    | 0.00     |

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

|      | Compound                   | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|----------------------------|-------|-------|--------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.680 | 1.580 | 6.0    | 79    | 0.00     |
| 46   | 2-Chloronaphthalene        | 1.327 | 1.261 | 5.0    | 80    | 0.00     |
| 47   | 2-Nitroaniline             | 0.328 | 0.384 | -17.1  | 91    | 0.00     |
| 48   | Acenaphthylene             | 2.082 | 1.917 | 7.9    | 76    | 0.00     |
| 49   | Dimethylphthalate          | 1.577 | 1.514 | 4.0    | 81    | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 0.292 | 0.324 | -11.0  | 85    | 0.00     |
| 51 C | Acenaphthene               | 1.270 | 1.120 | 11.8   | 74    | 0.00     |
| 52   | 3-Nitroaniline             | 0.342 | 0.383 | -12.0  | 86    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.089 | 0.118 | -32.6# | 112   | 0.00     |
| 54   | Dibenzofuran               | 1.770 | 1.583 | 10.6   | 74    | 0.00     |
| 55 P | 4-Nitrophenol              | 0.268 | 0.222 | 17.2   | 63    | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.383 | 0.414 | -8.1   | 86    | 0.00     |
| 57   | Fluorene                   | 1.289 | 1.303 | -1.1   | 84    | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.332 | 0.300 | 9.6    | 75    | 0.00     |
| 59   | Diethylphthalate           | 1.571 | 1.450 | 7.7    | 78    | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 0.574 | 0.598 | -4.2   | 86    | 0.00     |
| 61   | 4-Nitroaniline             | 0.334 | 0.386 | -15.6  | 87    | 0.00     |
| 62   | Azobenzene                 | 1.501 | 1.305 | 13.1   | 73    | 0.00     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 84    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.087 | 0.118 | -35.6# | 108   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.693 | 0.621 | 10.4   | 77    | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 0.213 | 0.199 | 6.6    | 80    | 0.00     |
| 67   | Hexachlorobenzene          | 0.239 | 0.229 | 4.2    | 82    | 0.00     |
| 68   | Atrazine                   | 0.209 | 0.187 | 10.5   | 77    | 0.00     |
| 69 C | Pentachlorophenol          | 0.148 | 0.140 | 5.4    | 76    | 0.00     |
| 70   | Phenanthrene               | 1.114 | 1.025 | 8.0    | 79    | 0.00     |
| 71   | Anthracene                 | 1.132 | 1.027 | 9.3    | 78    | 0.00     |
| 72   | Carbazole                  | 1.106 | 0.993 | 10.2   | 78    | 0.00     |
| 73   | Di-n-butylphthalate        | 1.351 | 1.215 | 10.1   | 77    | 0.00     |
| 74 C | Fluoranthene               | 1.164 | 1.049 | 9.9    | 77    | 0.00     |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 81    | 0.00     |
| 76   | Benzidine                  | 0.692 | 0.702 | -1.4   | 83    | 0.00     |
| 77   | Pyrene                     | 1.482 | 1.387 | 6.4    | 77    | 0.00     |
| 78 S | Terphenyl-d14              | 0.877 | 0.837 | 4.6    | 81    | 0.00     |
| 79   | Butylbenzylphthalate       | 0.698 | 0.658 | 5.7    | 77    | 0.00     |
| 80   | Benzo(a)anthracene         | 1.195 | 1.174 | 1.8    | 82    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 0.445 | 0.411 | 7.6    | 73    | 0.00     |
| 82   | Chrysene                   | 1.227 | 1.129 | 8.0    | 75    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.898 | 0.877 | 2.3    | 81    | 0.00     |
| 84 c | Di-n-octyl phthalate       | 1.501 | 1.332 | 11.3   | 71    | -0.01    |
| 85   | Indeno(1,2,3-cd)pyrene     | 1.043 | 0.907 | 13.0   | 74    | -0.02    |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0    | 73    | -0.02    |
| 87   | Benzo(b)fluoranthene       | 1.263 | 1.279 | -1.3   | 74    | -0.02    |

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|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.193 | 1.110 | 7.0  | 69    | -0.02    |
| 89 C | Benzo(a)pyrene         | 1.130 | 1.092 | 3.4  | 71    | -0.02    |
| 90   | Dibenzo(a,h)anthracene | 0.928 | 0.884 | 4.7  | 72    | -0.02    |
| 91   | Benzo(a,h,i)perylene   | 0.899 | 0.875 | 2.7  | 76    | -0.02    |

(#) = Out of Range

SPCC's out = 0 CCC's out = 1