

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030819\  
 Data File : BG039817.D  
 Acq On : 8 Mar 2019 12:23  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Mar 08 13:57:31 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG030419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 04 14:38:15 2019  
 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  | 96    | -0.02    |
| 2    | 1,4-Dioxane                 | 0.541 | 0.507 | 6.3  | 95    | -0.02    |
| 3    | Pyridine                    | 1.449 | 1.502 | -3.7 | 94    | -0.01    |
| 4    | n-Nitrosodimethylamine      | 0.687 | 0.709 | -3.2 | 98    | -0.02    |
| 5 S  | 2-Fluorophenol              | 1.172 | 1.193 | -1.8 | 98    | -0.02    |
| 6    | Aniline                     | 2.290 | 2.275 | 0.7  | 96    | -0.02    |
| 7 S  | Phenol-d6                   | 1.748 | 1.839 | -5.2 | 100   | -0.02    |
| 8    | 2-Chlorophenol              | 1.422 | 1.448 | -1.8 | 98    | -0.01    |
| 9    | Benzaldehyde                | 1.128 | 1.131 | -0.3 | 96    | -0.01    |
| 10 C | Phenol                      | 1.894 | 1.984 | -4.8 | 99    | -0.01    |
| 11   | bis(2-Chloroethyl)ether     | 1.476 | 1.495 | -1.3 | 99    | -0.01    |
| 12   | 1,3-Dichlorobenzene         | 1.609 | 1.566 | 2.7  | 94    | -0.01    |
| 13 C | 1,4-Dichlorobenzene         | 1.638 | 1.623 | 0.9  | 97    | -0.01    |
| 14   | 1,2-Dichlorobenzene         | 1.583 | 1.538 | 2.8  | 95    | -0.02    |
| 15   | Benzyl Alcohol              | 1.387 | 1.436 | -3.5 | 97    | -0.02    |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.953 | 2.911 | 1.4  | 96    | -0.01    |
| 17   | 2-Methylphenol              | 1.207 | 1.258 | -4.2 | 98    | -0.01    |
| 18   | Hexachloroethane            | 0.588 | 0.583 | 0.9  | 99    | -0.01    |
| 19 P | n-Nitroso-di-n-propylamine  | 1.258 | 1.253 | 0.4  | 93    | -0.01    |
| 20   | 3+4-Methylphenols           | 1.677 | 1.780 | -6.1 | 100   | -0.02    |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0  | 100   | -0.02    |
| 22   | Acetophenone                | 0.537 | 0.509 | 5.2  | 94    | -0.02    |
| 23 S | Nitrobenzene-d5             | 0.370 | 0.373 | -0.8 | 100   | -0.01    |
| 24   | Nitrobenzene                | 0.388 | 0.381 | 1.8  | 97    | -0.01    |
| 25   | Isophorone                  | 0.775 | 0.742 | 4.3  | 94    | -0.01    |
| 26 C | 2-Nitrophenol               | 0.187 | 0.192 | -2.7 | 98    | -0.02    |
| 27   | 2,4-Dimethylphenol          | 0.291 | 0.295 | -1.4 | 99    | -0.02    |
| 28   | bis(2-Chloroethoxy)methane  | 0.471 | 0.442 | 6.2  | 93    | -0.01    |
| 29 C | 2,4-Dichlorophenol          | 0.328 | 0.337 | -2.7 | 99    | -0.01    |
| 30   | 1,2,4-Trichlorobenzene      | 0.369 | 0.352 | 4.6  | 96    | -0.01    |
| 31   | Naphthalene                 | 1.059 | 1.022 | 3.5  | 96    | -0.01    |
| 32   | Benzoic acid                | 0.181 | 0.176 | 2.8  | 96    | -0.01    |
| 33   | 4-Chloroaniline             | 0.449 | 0.447 | 0.4  | 96    | -0.01    |
| 34 C | Hexachlorobutadiene         | 0.252 | 0.236 | 6.3  | 94    | -0.01    |
| 35   | Caprolactam                 | 0.125 | 0.121 | 3.2  | 93    | -0.02    |
| 36 C | 4-Chloro-3-methylphenol     | 0.376 | 0.375 | 0.3  | 96    | -0.01    |
| 37   | 2-Methylnaphthalene         | 0.792 | 0.771 | 2.7  | 97    | -0.01    |
| 38   | 1-Methylnaphthalene         | 0.769 | 0.747 | 2.9  | 96    | -0.01    |
| 39 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0  | 100   | -0.01    |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 0.678 | 0.649 | 4.3  | 96    | -0.01    |
| 41 P | Hexachlorocyclopentadiene   | 0.363 | 0.305 | 16.0 | 82    | -0.01    |
| 42 S | 2,4,6-Tribromophenol        | 0.233 | 0.234 | -0.4 | 95    | -0.01    |
| 43 C | 2,4,6-Trichlorophenol       | 0.397 | 0.410 | -3.3 | 99    | -0.01    |
| 44   | 2,4,5-Trichlorophenol       | 0.447 | 0.449 | -0.4 | 94    | -0.01    |

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

|      | Compound                   | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|----------------------------|-------|-------|-------|-------|----------|
| 45 S | 2-Fluorobiphenyl           | 1.405 | 1.344 | 4.3   | 96    | -0.01    |
| 46   | 1,1'-Biphenyl              | 1.645 | 1.597 | 2.9   | 97    | -0.01    |
| 47   | 2-Chloronaphthalene        | 1.238 | 1.192 | 3.7   | 97    | -0.01    |
| 48   | 2-Nitroaniline             | 0.398 | 0.416 | -4.5  | 99    | -0.01    |
| 49   | Acenaphthylene             | 2.031 | 1.979 | 2.6   | 95    | -0.01    |
| 50   | Dimethylphthalate          | 1.672 | 1.603 | 4.1   | 94    | -0.01    |
| 51   | 2,6-Dinitrotoluene         | 0.355 | 0.366 | -3.1  | 97    | -0.01    |
| 52 C | Acenaphthene               | 1.223 | 1.183 | 3.3   | 96    | -0.01    |
| 53   | 3-Nitroaniline             | 0.356 | 0.350 | 1.7   | 94    | -0.01    |
| 54 P | 2,4-Dinitrophenol          | 0.197 | 0.174 | 11.7  | 84    | -0.01    |
| 55   | Dibenzofuran               | 2.006 | 1.940 | 3.3   | 96    | -0.01    |
| 56 P | 4-Nitrophenol              | 0.319 | 0.294 | 7.8   | 88    | -0.01    |
| 57   | 2,4-Dinitrotoluene         | 0.498 | 0.519 | -4.2  | 98    | -0.01    |
| 58   | Fluorene                   | 1.577 | 1.545 | 2.0   | 97    | -0.01    |
| 59   | 2,3,4,6-Tetrachlorophenol  | 0.437 | 0.443 | -1.4  | 96    | 0.00     |
| 60   | Diethylphthalate           | 1.656 | 1.607 | 3.0   | 94    | -0.01    |
| 61   | 4-Chlorophenyl-phenylether | 0.842 | 0.815 | 3.2   | 96    | -0.01    |
| 62   | 4-Nitroaniline             | 0.386 | 0.381 | 1.3   | 92    | -0.01    |
| 63   | Azobenzene                 | 1.501 | 1.474 | 1.8   | 97    | -0.01    |
| 64 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 97    | -0.01    |
| 65   | 4,6-Dinitro-2-methylphenol | 0.118 | 0.102 | 13.6  | 82    | -0.01    |
| 66 c | n-Nitrosodiphenylamine     | 0.579 | 0.576 | 0.5   | 94    | -0.01    |
| 67   | 4-Bromophenyl-phenylether  | 0.224 | 0.219 | 2.2   | 94    | -0.01    |
| 68   | Hexachlorobenzene          | 0.232 | 0.229 | 1.3   | 95    | -0.01    |
| 69   | Atrazine                   | 0.228 | 0.223 | 2.2   | 93    | 0.00     |
| 70 C | Pentachlorophenol          | 0.147 | 0.132 | 10.2  | 85    | 0.00     |
| 71   | Phenanthrene               | 1.102 | 1.066 | 3.3   | 94    | 0.00     |
| 72   | Anthracene                 | 1.074 | 1.054 | 1.9   | 95    | -0.01    |
| 73   | Carbazole                  | 0.968 | 0.945 | 2.4   | 95    | -0.01    |
| 74   | Di-n-butylphthalate        | 1.139 | 1.130 | 0.8   | 96    | -0.01    |
| 75 C | Fluoranthene               | 1.302 | 1.237 | 5.0   | 93    | -0.01    |
| 76 I | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 97    | -0.02    |
| 77   | Benzidine                  | 0.635 | 0.462 | 27.2# | 63    | 0.00     |
| 78   | Pyrene                     | 1.300 | 1.281 | 1.5   | 94    | -0.01    |
| 79 S | Terphenyl-d14              | 0.908 | 0.882 | 2.9   | 94    | -0.01    |
| 80   | Butylbenzylphthalate       | 0.504 | 0.522 | -3.6  | 96    | -0.01    |
| 81   | Benzo(a)anthracene         | 1.253 | 1.231 | 1.8   | 94    | -0.01    |
| 82   | 3,3'-Dichlorobenzidine     | 0.458 | 0.439 | 4.1   | 89    | -0.01    |
| 83   | Chrysene                   | 1.215 | 1.183 | 2.6   | 95    | -0.01    |
| 84   | Bis(2-ethylhexyl)phthalate | 0.708 | 0.728 | -2.8  | 96    | -0.02    |
| 85 c | Di-n-octyl phthalate       | 1.172 | 1.243 | -6.1  | 97    | -0.02    |
| 86   | Indeno(1,2,3-cd)pyrene     | 1.379 | 1.345 | 2.5   | 92    | -0.03    |
| 87 I | Perylene-d12               | 1.000 | 1.000 | 0.0   | 94    | -0.02    |

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|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 1.193 | 1.175 | 1.5  | 93    | -0.02    |
| 89   | Benzo(k)fluoranthene   | 1.110 | 1.094 | 1.4  | 94    | -0.02    |
| 90 C | Benzo(a)pyrene         | 1.102 | 1.104 | -0.2 | 94    | -0.02    |
| 91   | Dibenzo(a,h)anthracene | 1.080 | 1.056 | 2.2  | 93    | -0.03    |
| 92   | Benzo(g,h,i)perylene   | 1.085 | 1.036 | 4.5  | 90    | -0.02    |

(#) = Out of Range

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