

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP092719\  
 Data File : BP000449.D  
 Acq On : 27 Sep 2019 11:54  
 Operator : JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 LabSampleId :  
 SSTDCCC040

Quant Time: Sep 27 14:58:51 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP091619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Sep 19 14:44:51 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 77    | 0.00     |
| 2    | 1,4-Dioxane                 | 0.523 | 0.540 | -3.3  | 75    | -0.03    |
| 3    | Pyridine                    | 1.407 | 1.480 | -5.2  | 76    | -0.03    |
| 4    | n-Nitrosodimethylamine      | 0.397 | 0.421 | -6.0  | 79    | -0.02    |
| 5 S  | 2-Fluorophenol              | 1.159 | 1.259 | -8.6  | 78    | 0.00     |
| 6    | Aniline                     | 1.958 | 2.044 | -4.4  | 75    | 0.00     |
| 7 S  | Phenol-d6                   | 1.420 | 1.539 | -8.4  | 78    | 0.00     |
| 8    | 2-Chlorophenol              | 1.248 | 1.346 | -7.9  | 78    | 0.00     |
| 9    | Benzaldehyde                | 0.841 | 0.824 | 2.0   | 80    | 0.00     |
| 10 C | Phenol                      | 1.613 | 1.723 | -6.8  | 76    | 0.01     |
| 11   | bis(2-Chloroethyl)ether     | 1.236 | 1.293 | -4.6  | 77    | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.497 | 1.605 | -7.2  | 78    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.489 | 1.620 | -8.8  | 78    | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.364 | 1.526 | -11.9 | 80    | 0.00     |
| 15   | Benzyl Alcohol              | 1.033 | 1.083 | -4.8  | 75    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.171 | 1.237 | -5.6  | 77    | 0.00     |
| 17   | 2-Methylphenol              | 1.068 | 1.125 | -5.3  | 77    | 0.01     |
| 18   | Hexachloroethane            | 0.551 | 0.576 | -4.5  | 75    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 0.751 | 0.787 | -4.8  | 78    | 0.00     |
| 20   | 3+4-Methylphenols           | 1.292 | 1.394 | -7.9  | 80    | 0.01     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 79    | 0.00     |
| 22   | Acetophenone                | 0.433 | 0.482 | -11.3 | 81    | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.310 | 0.335 | -8.1  | 80    | 0.00     |
| 24   | Nitrobenzene                | 0.322 | 0.344 | -6.8  | 78    | 0.00     |
| 25   | Isophorone                  | 0.614 | 0.634 | -3.3  | 78    | 0.00     |
| 26 C | 2-Nitrophenol               | 0.171 | 0.185 | -8.2  | 81    | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.272 | 0.285 | -4.8  | 77    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.408 | 0.433 | -6.1  | 78    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.291 | 0.315 | -8.2  | 80    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.334 | 0.362 | -8.4  | 80    | 0.00     |
| 31   | Naphthalene                 | 0.926 | 1.029 | -11.1 | 79    | 0.00     |
| 32   | Benzoic acid                | 0.184 | 0.155 | 15.8  | 61    | 0.01     |
| 33   | 4-Chloroaniline             | 0.419 | 0.458 | -9.3  | 81    | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.198 | 0.216 | -9.1  | 80    | 0.00     |
| 35   | Caprolactam                 | 0.099 | 0.105 | -6.1  | 80    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.296 | 0.314 | -6.1  | 79    | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.633 | 0.704 | -11.2 | 81    | 0.00     |
| 38   | 1-Methylnaphthalene         | 0.593 | 0.664 | -12.0 | 81    | 0.00     |
| 39 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 82    | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 0.572 | 0.632 | -10.5 | 84    | 0.00     |
| 41 P | Hexachlorocyclopentadiene   | 0.328 | 0.277 | 15.5  | 64    | 0.00     |
| 42 S | 2,4,6-Tribromophenol        | 0.198 | 0.211 | -6.6  | 81    | 0.00     |
| 43 C | 2,4,6-Trichlorophenol       | 0.396 | 0.411 | -3.8  | 80    | 0.00     |
| 44   | 2,4,5-Trichlorophenol       | 0.405 | 0.426 | -5.2  | 81    | 0.01     |

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

|      | Compound                   | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|----------------------------|-------|-------|-------|-------|----------|
| 45 S | 2-Fluorobiphenyl           | 1.111 | 1.261 | -13.5 | 84    | 0.00     |
| 46   | 1,1'-Biphenyl              | 1.384 | 1.526 | -10.3 | 82    | 0.00     |
| 47   | 2-Chloronaphthalene        | 1.161 | 1.277 | -10.0 | 83    | 0.00     |
| 48   | 2-Nitroaniline             | 0.295 | 0.321 | -8.8  | 84    | 0.00     |
| 49   | Acenaphthylene             | 1.745 | 1.916 | -9.8  | 82    | 0.00     |
| 50   | Dimethylphthalate          | 1.363 | 1.498 | -9.9  | 85    | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 0.300 | 0.323 | -7.7  | 84    | 0.00     |
| 52 C | Acenaphthene               | 1.101 | 1.130 | -2.6  | 77    | 0.00     |
| 53   | 3-Nitroaniline             | 0.348 | 0.379 | -8.9  | 85    | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 0.132 | 0.123 | 6.8   | 75    | 0.01     |
| 55   | Dibenzofuran               | 1.556 | 1.741 | -11.9 | 84    | 0.00     |
| 56 P | 4-Nitrophenol              | 0.259 | 0.232 | 10.4  | 68    | 0.02     |
| 57   | 2,4-Dinitrotoluene         | 0.392 | 0.438 | -11.7 | 86    | 0.00     |
| 58   | Fluorene                   | 1.202 | 1.330 | -10.6 | 86    | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 0.333 | 0.345 | -3.6  | 79    | 0.00     |
| 60   | Diethylphthalate           | 1.311 | 1.440 | -9.8  | 84    | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 0.617 | 0.701 | -13.6 | 85    | 0.00     |
| 62   | 4-Nitroaniline             | 0.342 | 0.391 | -14.3 | 89    | 0.01     |
| 63   | Azobenzene                 | 1.111 | 1.214 | -9.3  | 83    | 0.00     |
| 64 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 85    | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 0.094 | 0.094 | 0.0   | 83    | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 0.602 | 0.646 | -7.3  | 84    | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 0.226 | 0.241 | -6.6  | 85    | 0.00     |
| 68   | Hexachlorobenzene          | 0.247 | 0.261 | -5.7  | 84    | 0.00     |
| 69   | Atrazine                   | 0.152 | 0.152 | 0.0   | 82    | 0.00     |
| 70 C | Pentachlorophenol          | 0.135 | 0.110 | 18.5  | 65    | 0.01     |
| 71   | Phenanthrene               | 1.002 | 1.113 | -11.1 | 86    | 0.00     |
| 72   | Anthracene                 | 1.032 | 1.125 | -9.0  | 87    | 0.00     |
| 73   | Carbazole                  | 0.929 | 1.047 | -12.7 | 88    | 0.01     |
| 74   | Di-n-butylphthalate        | 1.176 | 1.261 | -7.2  | 86    | 0.00     |
| 75 C | Fluoranthene               | 1.076 | 1.238 | -15.1 | 89    | 0.01     |
| 76 I | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 95    | 0.01     |
| 77   | Benzidine                  | 0.714 | 0.613 | 14.1  | 79    | 0.01     |
| 78   | Pyrene                     | 1.496 | 1.513 | -1.1  | 90    | 0.00     |
| 79 S | Terphenyl-d14              | 0.953 | 1.000 | -4.9  | 94    | 0.00     |
| 80   | Butylbenzylphthalate       | 0.688 | 0.673 | 2.2   | 88    | 0.00     |
| 81   | Benzo(a)anthracene         | 1.263 | 1.349 | -6.8  | 94    | 0.01     |
| 82   | 3,3'-Dichlorobenzidine     | 0.508 | 0.537 | -5.7  | 93    | 0.00     |
| 83   | Chrysene                   | 1.240 | 1.331 | -7.3  | 95    | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 0.825 | 0.872 | -5.7  | 93    | 0.00     |
| 85 c | Di-n-octyl phthalate       | 1.530 | 1.584 | -3.5  | 90    | 0.00     |
| 86   | Indeno(1,2,3-cd)pyrene     | 1.512 | 1.636 | -8.2  | 99    | 0.02     |
| 87 I | Perylene-d12               | 1.000 | 1.000 | 0.0   | 96    | 0.01     |

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|------|------------------------|-------|-------|-------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 1.193 | 1.200 | -0.6  | 87    | 0.01     |
| 89   | Benzo(k)fluoranthene   | 1.041 | 1.202 | -15.5 | 107   | 0.01     |
| 90 C | Benzo(a)pyrene         | 1.086 | 1.154 | -6.3  | 97    | 0.01     |
| 91   | Dibenzo(a,h)anthracene | 1.012 | 1.124 | -11.1 | 100   | 0.02     |
| 92   | Benzo(a,h,i)perylene   | 1.040 | 1.128 | -8.5  | 99    | 0.02     |

(#) = Out of Range

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