

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032620\  
 Data File : BF119534.D  
 Acq On : 26 Mar 2020 15:23  
 Operator : CG/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Mar 26 16:27:06 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF031820.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 18 15:11:18 2020  
 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    | 109   | 0.00     |
| 2    | 1,4-Dioxane                 | 0.621 | 0.573 | 7.7    | 97    | 0.00     |
| 3    | Pyridine                    | 1.709 | 1.568 | 8.3    | 95    | 0.00     |
| 4    | n-Nitrosodimethylamine      | 0.834 | 0.755 | 9.5    | 95    | 0.00     |
| 5 S  | 2-Fluorophenol              | 1.256 | 1.254 | 0.2    | 104   | 0.00     |
| 6    | Aniline                     | 2.215 | 2.205 | 0.5    | 102   | 0.00     |
| 7 S  | Phenol-d6                   | 1.605 | 1.637 | -2.0   | 105   | 0.00     |
| 8    | 2-Chlorophenol              | 1.320 | 1.393 | -5.5   | 108   | 0.00     |
| 9    | Benzaldehyde                | 1.018 | 0.946 | 7.1    | 97    | 0.00     |
| 10 C | Phenol                      | 1.712 | 1.865 | -8.9   | 113   | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.370 | 1.403 | -2.4   | 106   | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.428 | 1.494 | -4.6   | 109   | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.428 | 1.473 | -3.2   | 108   | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.335 | 1.396 | -4.6   | 107   | 0.00     |
| 15   | Benzyl Alcohol              | 1.207 | 1.268 | -5.1   | 106   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.763 | 2.732 | 1.1    | 103   | 0.00     |
| 17   | 2-Methylphenol              | 1.209 | 1.262 | -4.4   | 108   | 0.00     |
| 18   | Hexachloroethane            | 0.523 | 0.559 | -6.9   | 112   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 0.967 | 1.009 | -4.3   | 109   | 0.00     |
| 20   | 3+4-Methylphenols           | 1.482 | 1.555 | -4.9   | 107   | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0    | 109   | 0.00     |
| 22   | Acetophenone                | 0.478 | 0.487 | -1.9   | 108   | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.368 | 0.397 | -7.9   | 113   | 0.00     |
| 24   | Nitrobenzene                | 0.393 | 0.410 | -4.3   | 110   | 0.00     |
| 25   | Isophorone                  | 0.746 | 0.751 | -0.7   | 107   | 0.00     |
| 26 C | 2-Nitrophenol               | 0.155 | 0.194 | -25.2# | 131   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.320 | 0.311 | 2.8    | 103   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.441 | 0.454 | -2.9   | 110   | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.294 | 0.314 | -6.8   | 113   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.325 | 0.346 | -6.5   | 113   | 0.00     |
| 31   | Naphthalene                 | 1.029 | 1.065 | -3.5   | 108   | 0.00     |
| 32   | Benzoic acid                | 0.206 | 0.264 | -28.2# | 136   | 0.00     |
| 33   | 4-Chloroaniline             | 0.472 | 0.483 | -2.3   | 107   | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.182 | 0.201 | -10.4  | 118   | 0.00     |
| 35   | Caprolactam                 | 0.096 | 0.099 | -3.1   | 106   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.322 | 0.335 | -4.0   | 110   | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.675 | 0.712 | -5.5   | 112   | 0.00     |
| 38   | 1-Methylnaphthalene         | 0.639 | 0.663 | -3.8   | 109   | 0.00     |
| 39 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0    | 112   | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 0.586 | 0.633 | -8.0   | 117   | 0.00     |
| 41 P | Hexachlorocyclopentadiene   | 0.333 | 0.361 | -8.4   | 118   | 0.00     |
| 42 S | 2,4,6-Tribromophenol        | 0.206 | 0.243 | -18.0  | 127   | 0.00     |
| 43 C | 2,4,6-Trichlorophenol       | 0.420 | 0.453 | -7.9   | 118   | 0.00     |
| 44   | 2,4,5-Trichlorophenol       | 0.470 | 0.517 | -10.0  | 119   | 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 S | 2-Fluorobiphenyl           | 1.350 | 1.378 | -2.1   | 115   | 0.00     |
| 46   | 1,1'-Biphenyl              | 1.629 | 1.696 | -4.1   | 112   | 0.00     |
| 47   | 2-Chloronaphthalene        | 1.276 | 1.325 | -3.8   | 113   | 0.00     |
| 48   | 2-Nitroaniline             | 0.440 | 0.487 | -10.7  | 116   | 0.00     |
| 49   | Acenaphthylene             | 2.004 | 2.039 | -1.7   | 109   | 0.00     |
| 50   | Dimethylphthalate          | 1.421 | 1.483 | -4.4   | 113   | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 0.304 | 0.337 | -10.9  | 117   | 0.00     |
| 52 C | Acenaphthene               | 1.249 | 1.317 | -5.4   | 115   | 0.00     |
| 53   | 3-Nitroaniline             | 0.384 | 0.409 | -6.5   | 113   | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 0.112 | 0.169 | -50.9# | 171#  | 0.00     |
| 55   | Dibenzofuran               | 1.791 | 1.852 | -3.4   | 112   | 0.00     |
| 56 P | 4-Nitrophenol              | 0.303 | 0.321 | -5.9   | 110   | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 0.384 | 0.440 | -14.6  | 122   | 0.00     |
| 58   | Fluorene                   | 1.324 | 1.381 | -4.3   | 112   | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 0.351 | 0.389 | -10.8  | 117   | 0.00     |
| 60   | Diethylphthalate           | 1.442 | 1.542 | -6.9   | 116   | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 0.648 | 0.698 | -7.7   | 117   | 0.00     |
| 62   | 4-Nitroaniline             | 0.369 | 0.404 | -9.5   | 116   | 0.00     |
| 63   | Azobenzene                 | 1.452 | 1.482 | -2.1   | 110   | 0.00     |
| 64 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 110   | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 0.084 | 0.120 | -42.9# | 151#  | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 0.657 | 0.684 | -4.1   | 111   | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 0.228 | 0.250 | -9.6   | 116   | 0.00     |
| 68   | Hexachlorobenzene          | 0.233 | 0.254 | -9.0   | 117   | 0.00     |
| 69   | Atrazine                   | 0.180 | 0.194 | -7.8   | 116   | 0.00     |
| 70 C | Pentachlorophenol          | 0.137 | 0.158 | -15.3  | 123   | 0.00     |
| 71   | Phenanthrene               | 1.037 | 1.079 | -4.1   | 111   | 0.00     |
| 72   | Anthracene                 | 1.054 | 1.083 | -2.8   | 108   | 0.00     |
| 73   | Carbazole                  | 1.043 | 1.056 | -1.2   | 107   | 0.00     |
| 74   | Di-n-butylphthalate        | 1.116 | 1.251 | -12.1  | 119   | 0.00     |
| 75 C | Fluoranthene               | 1.122 | 1.140 | -1.6   | 107   | 0.00     |
| 76 I | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 108   | 0.00     |
| 77   | Benzidine                  | 0.846 | 0.806 | 4.7    | 102   | 0.00     |
| 78   | Pyrene                     | 1.641 | 1.632 | 0.5    | 107   | 0.00     |
| 79 S | Terphenyl-d14              | 1.021 | 1.044 | -2.3   | 111   | 0.00     |
| 80   | Butylbenzylphthalate       | 0.664 | 0.736 | -10.8  | 120   | 0.00     |
| 81   | Benzo(a)anthracene         | 1.301 | 1.291 | 0.8    | 104   | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 0.513 | 0.512 | 0.2    | 102   | 0.00     |
| 83   | Chrysene                   | 1.342 | 1.327 | 1.1    | 103   | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 0.791 | 0.935 | -18.2  | 128   | 0.00     |
| 85 c | Di-n-octyl phthalate       | 1.392 | 1.639 | -17.7  | 122   | 0.00     |
| 86   | Indeno(1,2,3-cd)pyrene     | 1.264 | 1.123 | 11.2   | 99    | 0.00     |
| 87 I | Perylene-d12               | 1.000 | 1.000 | 0.0    | 99    | 0.00     |

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|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 1.336 | 1.407 | -5.3 | 104   | 0.00     |
| 89   | Benzo(k)fluoranthene   | 1.272 | 1.352 | -6.3 | 102   | 0.00     |
| 90 C | Benzo(a)pyrene         | 1.214 | 1.254 | -3.3 | 101   | 0.00     |
| 91   | Dibenzo(a,h)anthracene | 1.062 | 1.016 | 4.3  | 99    | 0.00     |
| 92   | Benzo(q,h,i)perylene   | 1.067 | 0.972 | 8.9  | 97    | 0.00     |

(#) = Out of Range

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