

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050719\  
 Data File : BM020168.D  
 Acq On : 07 May 2019 17:01  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 LabSampleId :  
 SSTDCCC040

Quant Time: May 07 18:14:24 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 01 03:58:37 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    | 127   | 0.00     |
| 2    | 1,4-Dioxane                 | 0.600 | 0.543 | 9.5    | 123   | 0.00     |
| 3    | Pyridine                    | 1.535 | 1.554 | -1.2   | 125   | 0.00     |
| 4    | n-Nitrosodimethylamine      | 0.492 | 0.472 | 4.1    | 128   | 0.00     |
| 5 S  | 2-Fluorophenol              | 1.224 | 1.179 | 3.7    | 127   | 0.00     |
| 6    | Aniline                     | 2.104 | 2.054 | 2.4    | 129   | 0.00     |
| 7 S  | Phenol-d6                   | 1.672 | 1.614 | 3.5    | 127   | 0.00     |
| 8    | 2-Chlorophenol              | 1.332 | 1.291 | 3.1    | 126   | 0.00     |
| 9    | Benzaldehyde                | 1.265 | 1.156 | 8.6    | 117   | 0.00     |
| 10 C | Phenol                      | 1.799 | 1.734 | 3.6    | 125   | 0.01     |
| 11   | bis(2-Chloroethyl)ether     | 1.308 | 1.325 | -1.3   | 130   | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.550 | 1.482 | 4.4    | 125   | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.566 | 1.498 | 4.3    | 125   | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.492 | 1.421 | 4.8    | 126   | 0.00     |
| 15   | Benzyl Alcohol              | 1.612 | 1.517 | 5.9    | 121   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.084 | 0.954 | 12.0   | 110   | 0.00     |
| 17   | 2-Methylphenol              | 1.158 | 1.111 | 4.1    | 124   | 0.00     |
| 18   | Hexachloroethane            | 0.653 | 0.603 | 7.7    | 122   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.430 | 1.336 | 6.6    | 119   | 0.00     |
| 20   | 3+4-Methylphenols           | 1.540 | 1.507 | 2.1    | 126   | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0    | 121   | 0.00     |
| 22   | Acetophenone                | 0.547 | 0.510 | 6.8    | 117   | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.507 | 0.485 | 4.3    | 119   | 0.00     |
| 24   | Nitrobenzene                | 0.525 | 0.492 | 6.3    | 117   | 0.00     |
| 25   | Isophorone                  | 0.874 | 0.839 | 4.0    | 117   | 0.00     |
| 26 C | 2-Nitrophenol               | 0.159 | 0.194 | -22.0# | 151#  | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.264 | 0.265 | -0.4   | 126   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.476 | 0.468 | 1.7    | 120   | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.333 | 0.336 | -0.9   | 126   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.410 | 0.397 | 3.2    | 122   | 0.00     |
| 31   | Naphthalene                 | 1.038 | 1.016 | 2.1    | 122   | 0.00     |
| 32   | Benzoic acid                | 0.175 | 0.208 | -18.9  | 145   | 0.03     |
| 33   | 4-Chloroaniline             | 0.427 | 0.415 | 2.8    | 119   | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.290 | 0.275 | 5.2    | 118   | -0.01    |
| 35   | Caprolactam                 | 0.100 | 0.110 | -10.0  | 130   | 0.03     |
| 36 C | 4-Chloro-3-methylphenol     | 0.391 | 0.386 | 1.3    | 119   | 0.01     |
| 37   | 2-Methylnaphthalene         | 0.757 | 0.738 | 2.5    | 120   | 0.00     |
| 38   | 1-Methylnaphthalene         | 0.740 | 0.710 | 4.1    | 118   | 0.00     |
| 39 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0    | 113   | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 0.782 | 0.766 | 2.0    | 117   | 0.00     |
| 41 P | Hexachlorocyclopentadiene   | 0.461 | 0.392 | 15.0   | 102   | 0.00     |
| 42 S | 2,4,6-Tribromophenol        | 0.310 | 0.317 | -2.3   | 116   | 0.00     |
| 43 C | 2,4,6-Trichlorophenol       | 0.445 | 0.483 | -8.5   | 126   | 0.00     |
| 44   | 2,4,5-Trichlorophenol       | 0.497 | 0.511 | -2.8   | 121   | 0.00     |

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

|      | Compound                   | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|----------------------------|-------|-------|-------|-------|----------|
| 45 S | 2-Fluorobiphenyl           | 1.626 | 1.558 | 4.2   | 114   | 0.00     |
| 46   | 1,1'-Biphenyl              | 1.646 | 1.575 | 4.3   | 113   | 0.00     |
| 47   | 2-Chloronaphthalene        | 1.314 | 1.258 | 4.3   | 115   | 0.00     |
| 48   | 2-Nitroaniline             | 0.468 | 0.469 | -0.2  | 115   | 0.00     |
| 49   | Acenaphthylene             | 2.103 | 2.034 | 3.3   | 113   | 0.00     |
| 50   | Dimethylphthalate          | 1.700 | 1.613 | 5.1   | 109   | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 0.358 | 0.352 | 1.7   | 113   | 0.00     |
| 52 C | Acenaphthene               | 1.206 | 1.150 | 4.6   | 111   | 0.00     |
| 53   | 3-Nitroaniline             | 0.332 | 0.336 | -1.2  | 117   | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 0.151 | 0.165 | -9.3  | 131   | 0.01     |
| 55   | Dibenzofuran               | 2.035 | 1.901 | 6.6   | 110   | 0.00     |
| 56 P | 4-Nitrophenol              | 0.284 | 0.270 | 4.9   | 107   | 0.02     |
| 57   | 2,4-Dinitrotoluene         | 0.486 | 0.489 | -0.6  | 114   | 0.00     |
| 58   | Fluorene                   | 1.671 | 1.566 | 6.3   | 110   | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 0.472 | 0.470 | 0.4   | 116   | 0.01     |
| 60   | Diethylphthalate           | 1.713 | 1.623 | 5.3   | 107   | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 0.947 | 0.881 | 7.0   | 109   | 0.00     |
| 62   | 4-Nitroaniline             | 0.367 | 0.351 | 4.4   | 108   | 0.00     |
| 63   | Azobenzene                 | 2.020 | 1.772 | 12.3  | 101   | 0.00     |
| 64 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 107   | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 0.094 | 0.108 | -14.9 | 132   | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 0.589 | 0.577 | 2.0   | 108   | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 0.245 | 0.235 | 4.1   | 106   | 0.00     |
| 68   | Hexachlorobenzene          | 0.282 | 0.269 | 4.6   | 105   | 0.00     |
| 69   | Atrazine                   | 0.230 | 0.225 | 2.2   | 107   | 0.00     |
| 70 C | Pentachlorophenol          | 0.161 | 0.167 | -3.7  | 113   | 0.00     |
| 71   | Phenanthrene               | 1.104 | 1.060 | 4.0   | 106   | 0.00     |
| 72   | Anthracene                 | 1.104 | 1.050 | 4.9   | 105   | 0.00     |
| 73   | Carbazole                  | 0.996 | 0.947 | 4.9   | 105   | 0.00     |
| 74   | Di-n-butylphthalate        | 1.199 | 1.141 | 4.8   | 102   | 0.00     |
| 75 C | Fluoranthene               | 1.397 | 1.300 | 6.9   | 103   | 0.00     |
| 76 I | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 77   | Benzidine                  | 0.639 | 0.423 | 33.8# | 67    | 0.00     |
| 78   | Pyrene                     | 1.343 | 1.317 | 1.9   | 101   | 0.00     |
| 79 S | Terphenyl-d14              | 1.147 | 1.084 | 5.5   | 96    | 0.00     |
| 80   | Butylbenzylphthalate       | 0.488 | 0.507 | -3.9  | 103   | -0.01    |
| 81   | Benzo(a)anthracene         | 1.403 | 1.325 | 5.6   | 97    | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 0.535 | 0.537 | -0.4  | 101   | 0.00     |
| 83   | Chrysene                   | 1.360 | 1.286 | 5.4   | 96    | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 0.758 | 0.732 | 3.4   | 95    | -0.02    |
| 85 c | Di-n-octyl phthalate       | 1.259 | 1.265 | -0.5  | 100   | -0.02    |
| 86   | Indeno(1,2,3-cd)pyrene     | 1.618 | 1.726 | -6.7  | 111   | 0.00     |
| 87 I | Perylene-d12               | 1.000 | 1.000 | 0.0   | 109   | 0.00     |

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|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 1.321 | 1.203 | 8.9  | 102   | 0.00     |
| 89   | Benzo(k)fluoranthene   | 1.205 | 1.078 | 10.5 | 101   | 0.00     |
| 90 C | Benzo(a)pyrene         | 1.200 | 1.125 | 6.2  | 105   | 0.00     |
| 91   | Dibenzo(a,h)anthracene | 1.248 | 1.222 | 2.1  | 112   | 0.00     |
| 92   | Benzo(g,h,i)perylene   | 1.184 | 1.176 | 0.7  | 113   | 0.00     |

(#) = Out of Range

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