# Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040119\
Data File : BG040265.D
Acq On : 1 Apr 2019 14:58
Operator : JU/SJ
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** BNA_G
**LabSampleId :** SSTDCCC040

Quant Time: Apr 02 02:37:18 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG032719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 28 05:47:00 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 | 94 | -0.02 |
| 2 | | 1,4-Dioxane | 0.566 | 0.533 | 5.8 | 88 | -0.02 |
| 3 | | Pyridine | 1.523 | 1.680 | -10.3 | 97 | -0.02 |
| 4 | | n-Nitrosodimethylamine | 0.705 | 0.669 | 5.1 | 88 | -0.02 |
| 5 | S | 2-Fluorophenol | 1.203 | 1.211 | -0.7 | 92 | -0.02 |
| 6 | | Aniline | 2.160 | 2.298 | -6.4 | 97 | -0.02 |
| 7 | S | Phenol-d6 | 1.663 | 1.810 | -8.8 | 99 | -0.02 |
| 8 | | 2-Chlorophenol | 1.408 | 1.476 | -4.8 | 96 | -0.01 |
| 9 | | Benzaldehyde | 1.140 | 1.178 | -3.3 | 91 | -0.01 |
| 10 | C | Phenol | 1.805 | 1.947 | -7.9 | 99 | -0.02 |
| 11 | | bis(2-Chloroethyl)ether | 1.445 | 1.480 | -2.4 | 93 | -0.01 |
| 12 | | 1,3-Dichlorobenzene | 1.531 | 1.527 | 0.3 | 91 | -0.02 |
| 13 | C | 1,4-Dichlorobenzene | 1.525 | 1.569 | -2.9 | 95 | -0.01 |
| 14 | | 1,2-Dichlorobenzene | 1.458 | 1.520 | -4.3 | 96 | -0.01 |
| 15 | | Benzyl Alcohol | 1.339 | 1.413 | -5.5 | 96 | -0.02 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 2.774 | 2.757 | 0.6 | 91 | -0.02 |
| 17 | | 2-Methylphenol | 1.249 | 1.368 | -9.5 | 100 | -0.02 |
| 18 | | Hexachloroethane | 0.580 | 0.565 | 2.6 | 90 | -0.02 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.192 | 1.278 | -7.2 | 99 | -0.02 |
| 20 | | 3+4-Methylphenols | 1.692 | 1.855 | -9.6 | 99 | -0.01 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 99 | -0.01 |
| 22 | | Acetophenone | 0.499 | 0.505 | -1.2 | 100 | -0.01 |
| 23 | S | Nitrobenzene-d5 | 0.376 | 0.383 | -1.9 | 99 | -0.01 |
| 24 | | Nitrobenzene | 0.390 | 0.388 | 0.5 | 97 | -0.02 |
| 25 | | Isophorone | 0.774 | 0.808 | -4.4 | 102 | -0.02 |
| 26 | C | 2-Nitrophenol | 0.185 | 0.200 | -8.1 | 105 | -0.02 |
| 27 | | 2,4-Dimethylphenol | 0.293 | 0.297 | -1.4 | 99 | -0.02 |
| 28 | | bis(2-Chloroethoxy)methane | 0.458 | 0.470 | -2.6 | 99 | -0.02 |
| 29 | C | 2,4-Dichlorophenol | 0.318 | 0.346 | -8.8 | 104 | -0.02 |
| 30 | | 1,2,4-Trichlorobenzene | 0.350 | 0.359 | -2.6 | 101 | -0.02 |
| 31 | | Naphthalene | 1.025 | 1.062 | -3.6 | 100 | -0.02 |
| 32 | | Benzoic acid | 0.177 | 0.099 | 44.1# | 59 | -0.05 |
| 33 | | 4-Chloroaniline | 0.437 | 0.489 | -11.9 | 108 | -0.02 |
| 34 | C | Hexachlorobutadiene | 0.224 | 0.224 | 0.0 | 98 | -0.02 |
| 35 | | Caprolactam | 0.126 | 0.140 | -11.1 | 106 | -0.02 |
| 36 | C | 4-Chloro-3-methylphenol | 0.366 | 0.426 | -16.4 | 113 | -0.02 |
| 37 | | 2-Methylnaphthalene | 0.758 | 0.824 | -8.7 | 106 | -0.02 |
| 38 | | 1-Methylnaphthalene | 0.735 | 0.795 | -8.2 | 106 | -0.02 |
| 39 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 113 | -0.02 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 0.636 | 0.624 | 1.9 | 108 | -0.01 |
| 41 | P | Hexachlorocyclopentadiene | 0.349 | 0.361 | -3.4 | 118 | -0.01 |
| 42 | S | 2,4,6-Tribromophenol | 0.216 | 0.247 | -14.4 | 126 | -0.01 |
| 43 | C | 2,4,6-Trichlorophenol | 0.410 | 0.429 | -4.6 | 115 | -0.01 |
| 44 | | 2,4,5-Trichlorophenol | 0.447 | 0.473 | -5.8 | 118 | -0.02 |

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | S | 2-Fluorobiphenyl | 1.350 | 1.339 | 0.8 | 108 | -0.02 |
| 46 | | 1,1'-Biphenyl | 1.580 | 1.569 | 0.7 | 109 | -0.01 |
| 47 | | 2-Chloronaphthalene | 1.212 | 1.204 | 0.7 | 110 | -0.02 |
| 48 | | 2-Nitroaniline | 0.409 | 0.414 | -1.2 | 110 | -0.02 |
| 49 | | Acenaphthylene | 2.055 | 2.100 | -2.2 | 112 | -0.01 |
| 50 | | Dimethylphthalate | 1.565 | 1.582 | -1.1 | 111 | -0.01 |
| 51 | | 2,6-Dinitrotoluene | 0.351 | 0.374 | -6.6 | 119 | -0.02 |
| 52 | C | Acenaphthene | 1.178 | 1.206 | -2.4 | 113 | -0.02 |
| 53 | | 3-Nitroaniline | 0.372 | 0.388 | -4.3 | 115 | -0.01 |
| 54 | P | 2,4-Dinitrophenol | 0.187 | 0.258 | -38.0# | 162# | -0.01 |
| 55 | | Dibenzofuran | 1.892 | 1.973 | -4.3 | 115 | -0.01 |
| 56 | P | 4-Nitrophenol | 0.300 | 0.308 | -2.7 | 115 | -0.02 |
| 57 | | 2,4-Dinitrotoluene | 0.488 | 0.521 | -6.8 | 117 | -0.01 |
| 58 | | Fluorene | 1.488 | 1.568 | -5.4 | 117 | -0.02 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 0.405 | 0.442 | -9.1 | 120 | -0.01 |
| 60 | | Diethylphthalate | 1.602 | 1.642 | -2.5 | 113 | -0.01 |
| 61 | | 4-Chlorophenyl-phenylether | 0.795 | 0.835 | -5.0 | 115 | -0.01 |
| 62 | | 4-Nitroaniline | 0.399 | 0.419 | -5.0 | 116 | -0.02 |
| 63 | | Azobenzene | 1.511 | 1.552 | -2.7 | 114 | -0.01 |
| 64 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 117 | -0.02 |
| 65 | | 4,6-Dinitro-2-methylphenol | 0.112 | 0.119 | -6.2 | 127 | -0.01 |
| 66 | c | n-Nitrosodiphenylamine | 0.585 | 0.603 | -3.1 | 117 | -0.02 |
| 67 | | 4-Bromophenyl-phenylether | 0.225 | 0.231 | -2.7 | 117 | -0.02 |
| 68 | | Hexachlorobenzene | 0.226 | 0.236 | -4.4 | 120 | -0.02 |
| 69 | | Atrazine | 0.218 | 0.218 | 0.0 | 113 | -0.02 |
| 70 | C | Pentachlorophenol | 0.131 | 0.127 | 3.1 | 114 | -0.01 |
| 71 | | Phenanthrene | 1.051 | 1.078 | -2.6 | 116 | -0.02 |
| 72 | | Anthracene | 1.052 | 1.080 | -2.7 | 116 | -0.02 |
| 73 | | Carbazole | 0.996 | 1.003 | -0.7 | 114 | -0.02 |
| 74 | | Di-n-butylphthalate | 1.180 | 1.171 | 0.8 | 112 | -0.02 |
| 75 | C | Fluoranthene | 1.245 | 1.255 | -0.8 | 114 | -0.02 |
| 76 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 115 | -0.01 |
| 77 | | Benzidine | 0.722 | 0.781 | -8.2 | 120 | -0.01 |
| 78 | | Pyrene | 1.315 | 1.344 | -2.2 | 114 | -0.02 |
| 79 | S | Terphenyl-d14 | 0.889 | 0.882 | 0.8 | 112 | -0.02 |
| 80 | | Butylbenzylphthalate | 0.563 | 0.559 | 0.7 | 112 | -0.01 |
| 81 | | Benzo(a)anthracene | 1.232 | 1.234 | -0.2 | 113 | -0.02 |
| 82 | | 3,3'-Dichlorobenzidine | 0.469 | 0.470 | -0.2 | 111 | -0.02 |
| 83 | | Chrysene | 1.184 | 1.220 | -3.0 | 116 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.805 | 0.787 | 2.2 | 111 | -0.02 |
| 85 | c | Di-n-octyl phthalate | 1.371 | 1.333 | 2.8 | 109 | -0.01 |
| 86 | | Indeno(1,2,3-cd)pyrene | 1.448 | 1.458 | -0.7 | 115 | 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 | 1.224 | 1.263 | -3.2 | 110 | -0.02 |
| 89 | Benzo(k)fluoranthene | 1.126 | 1.178 | -4.6 | 113 | -0.01 |
| 90 C | Benzo(a)pyrene | 1.149 | 1.199 | -4.4 | 111 | -0.01 |
| 91 | Dibenzo(a,h)anthracene | 1.067 | 1.151 | -7.9 | 116 | 0.05 |
| 92 | Benzo(g,h,i)perylene | 1.097 | 1.169 | -6.6 | 115 | 0.09 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0