# Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF120718\
Data File : BF111178.D
Acq On : 7 Dec 2018 11:11
Operator : JU/SJ
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** BNA_F
**LabSampleId :** SSTDCCC040

Quant Time: Dec 10 13:09:53 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 05 17:30:55 2018
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 | 67 | 0.00 |
| 2 | | 1,4-Dioxane | 0.737 | 0.638 | 13.4 | 58 | -0.04 |
| 3 | | Pyridine | 1.635 | 1.441 | 11.9 | 59 | -0.03 |
| 4 | | n-Nitrosodimethylamine | 0.805 | 0.704 | 12.5 | 58 | -0.03 |
| 5 | S | 2-Fluorophenol | 1.282 | 1.189 | 7.3 | 63 | 0.00 |
| 6 | | Aniline | 2.206 | 2.008 | 9.0 | 61 | 0.00 |
| 7 | S | Phenol-d6 | 1.651 | 1.519 | 8.0 | 63 | 0.00 |
| 8 | | 2-Chlorophenol | 1.477 | 1.375 | 6.9 | 63 | 0.00 |
| 9 | | Benzaldehyde | 0.914 | 0.843 | 7.8 | 61 | 0.00 |
| 10 | C | Phenol | 1.800 | 1.763 | 2.1 | 67 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.471 | 1.336 | 9.2 | 61 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.571 | 1.465 | 6.7 | 64 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 1.581 | 1.463 | 7.5 | 63 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.471 | 1.387 | 5.7 | 64 | 0.00 |
| 15 | | Benzyl Alcohol | 1.308 | 1.208 | 7.6 | 62 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 2.862 | 2.589 | 9.5 | 60 | 0.00 |
| 17 | | 2-Methylphenol | 1.213 | 1.114 | 8.2 | 62 | 0.00 |
| 18 | | Hexachloroethane | 0.593 | 0.547 | 7.8 | 61 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.110 | 1.001 | 9.8 | 62 | 0.00 |
| 20 | | 3+4-Methylphenols | 1.479 | 1.365 | 7.7 | 63 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 67 | 0.00 |
| 22 | | Acetophenone | 0.483 | 0.439 | 9.1 | 63 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.338 | 0.336 | 0.6 | 65 | 0.00 |
| 24 | | Nitrobenzene | 0.363 | 0.353 | 2.8 | 64 | 0.00 |
| 25 | | Isophorone | 0.620 | 0.563 | 9.2 | 63 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.154 | 0.172 | -11.7 | 70 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.289 | 0.266 | 8.0 | 63 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.420 | 0.386 | 8.1 | 63 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.285 | 0.270 | 5.3 | 64 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.287 | 0.270 | 5.9 | 64 | 0.00 |
| 31 | | Naphthalene | 0.871 | 0.878 | -0.8 | 67 | 0.00 |
| 32 | | Benzoic acid | 0.191 | 0.189 | 1.0 | 61 | 0.00 |
| 33 | | 4-Chloroaniline | 0.421 | 0.395 | 6.2 | 63 | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.156 | 0.152 | 2.6 | 65 | 0.00 |
| 35 | | Caprolactam | 0.105 | 0.100 | 4.8 | 66 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 0.312 | 0.295 | 5.4 | 63 | 0.00 |
| 37 | | 2-Methylnaphthalene | 0.601 | 0.571 | 5.0 | 65 | 0.00 |
| 38 | | 1-Methylnaphthalene | 0.577 | 0.549 | 4.9 | 65 | 0.00 |
| 39 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 68 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 0.533 | 0.517 | 3.0 | 68 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 0.281 | 0.277 | 1.4 | 65 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 0.159 | 0.169 | -6.3 | 72 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 0.389 | 0.374 | 3.9 | 65 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 0.395 | 0.390 | 1.3 | 66 | 0.00 |

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|---|---|---|---|---|---|---|---|
| 45 | S | 2-Fluorobiphenyl | 1.190 | 1.161 | 2.4 | 70 | 0.00 |
| 46 | | 1,1'-Biphenyl | 1.637 | 1.576 | 3.7 | 67 | 0.00 |
| 47 | | 2-Chloronaphthalene | 1.272 | 1.215 | 4.5 | 66 | 0.00 |
| 48 | | 2-Nitroaniline | 0.412 | 0.414 | -0.5 | 66 | 0.00 |
| 49 | | Acenaphthylene | 1.778 | 1.784 | -0.3 | 67 | 0.00 |
| 50 | | Dimethylphthalate | 1.392 | 1.353 | 2.8 | 67 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 0.295 | 0.312 | -5.8 | 68 | 0.00 |
| 52 | C | Acenaphthene | 1.175 | 1.135 | 3.4 | 68 | 0.00 |
| 53 | | 3-Nitroaniline | 0.371 | 0.380 | -2.4 | 67 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 0.080 | 0.107 | -33.8# | 90 | 0.00 |
| 55 | | Dibenzofuran | 1.618 | 1.636 | -1.1 | 68 | 0.00 |
| 56 | P | 4-Nitrophenol | 0.279 | 0.294 | -5.4 | 67 | 0.00 |
| 57 | | 2,4-Dinitrotoluene | 0.381 | 0.409 | -7.3 | 71 | 0.00 |
| 58 | | Fluorene | 1.141 | 1.152 | -1.0 | 68 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 0.295 | 0.298 | -1.0 | 66 | 0.01 |
| 60 | | Diethylphthalate | 1.391 | 1.351 | 2.9 | 67 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 0.562 | 0.573 | -2.0 | 68 | 0.00 |
| 62 | | 4-Nitroaniline | 0.335 | 0.356 | -6.3 | 70 | 0.00 |
| 63 | | Azobenzene | 1.481 | 1.396 | 5.7 | 65 | 0.00 |
| 64 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 71 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 0.083 | 0.099 | -19.3 | 83 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 0.700 | 0.652 | 6.9 | 67 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 0.212 | 0.204 | 3.8 | 69 | 0.00 |
| 68 | | Hexachlorobenzene | 0.216 | 0.210 | 2.8 | 70 | 0.00 |
| 69 | | Atrazine | 0.186 | 0.167 | 10.2 | 65 | 0.00 |
| 70 | C | Pentachlorophenol | 0.142 | 0.145 | -2.1 | 69 | 0.01 |
| 71 | | Phenanthrene | 0.962 | 0.971 | -0.9 | 71 | 0.00 |
| 72 | | Anthracene | 0.970 | 0.972 | -0.2 | 70 | 0.00 |
| 73 | | Carbazole | 1.009 | 1.007 | 0.2 | 70 | 0.00 |
| 74 | | Di-n-butylphthalate | 1.181 | 1.166 | 1.3 | 71 | 0.00 |
| 75 | C | Fluoranthene | 0.941 | 0.969 | -3.0 | 71 | 0.01 |
| 76 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 82 | 0.01 |
| 77 | | Benzidine | 0.667 | 0.485 | 27.3# | 72 | 0.00 |
| 78 | | Pyrene | 1.558 | 1.353 | 13.2 | 71 | 0.01 |
| 79 | S | Terphenyl-d14 | 0.977 | 0.859 | 12.1 | 75 | 0.01 |
| 80 | | Butylbenzylphthalate | 0.753 | 0.690 | 8.4 | 72 | 0.00 |
| 81 | | Benzo(a)anthracene | 1.172 | 1.046 | 10.8 | 73 | 0.01 |
| 82 | | 3,3'-Dichlorobenzidine | 0.442 | 0.429 | 2.9 | 77 | 0.01 |
| 83 | | Chrysene | 1.163 | 1.068 | 8.2 | 75 | 0.01 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.909 | 0.844 | 7.2 | 73 | 0.01 |
| 85 | c | Di-n-octyl phthalate | 1.429 | 1.444 | -1.0 | 81 | 0.00 |
| 86 | | Indeno(1,2,3-cd)pyrene | 0.934 | 0.791 | 15.3 | 71 | 0.03 |
| 87 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 80 | 0.02 |

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|---|---|---|---|---|---|---|
| 88 | Benzo(b)fluoranthene | 1.133 | 1.101 | 2.8 | 75 | 0.01 |
| 89 | Benzo(k)fluoranthene | 1.096 | 1.109 | -1.2 | 81 | 0.01 |
| 90 C | Benzo(a)pyrene | 1.040 | 0.999 | 3.9 | 76 | 0.02 |
| 91 | Dibenzo(a,h)anthracene | 0.872 | 0.798 | 8.5 | 72 | 0.02 |
| 92 | Benzo(g,h,i)perylene | 0.877 | 0.788 | 10.1 | 70 | 0.03 |

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