# Evaluate Continuing Calibration Report

Data Path : Z:\HPCHEM1\BNA_F\Data\BF121917\
Data File : BF101542.D
Acq On : 20 Dec 2017 1:10
Operator : SJ/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Dec 20 07:23:21 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 18 15:38:59 2017
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 | 90 | 0.00 |
| 2 | | 1,4-Dioxane | 0.690 | 0.653 | 5.4 | 84 | -0.01 |
| 3 | | Pyridine | 1.917 | 1.854 | 3.3 | 86 | -0.02 |
| 4 | | n-Nitrosodimethylamine | 0.883 | 0.846 | 4.2 | 84 | -0.01 |
| 5 | S | 2-Fluorophenol | 1.343 | 1.358 | -1.1 | 91 | 0.00 |
| 6 | | Aniline | 2.322 | 2.130 | 8.3 | 84 | 0.00 |
| 7 | S | Phenol-d6 | 1.671 | 1.515 | 9.3 | 85 | 0.00 |
| 8 | | 2-Chlorophenol | 1.412 | 1.334 | 5.5 | 88 | 0.00 |
| 9 | | Benzaldehyde | 1.234 | 1.136 | 7.9 | 84 | 0.00 |
| 10 | C | Phenol | 1.905 | 1.752 | 8.0 | 85 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.494 | 1.403 | 6.1 | 85 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.594 | 1.501 | 5.8 | 86 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 1.628 | 1.518 | 6.8 | 87 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.465 | 1.382 | 5.7 | 87 | 0.00 |
| 15 | | Benzyl Alcohol | 1.150 | 1.033 | 10.2 | 83 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 2.286 | 2.070 | 9.4 | 81 | 0.00 |
| 17 | | 2-Methylphenol | 1.299 | 1.156 | 11.0 | 85 | 0.00 |
| 18 | | Hexachloroethane | 0.566 | 0.499 | 11.8 | 81 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.097 | 0.961 | 12.4 | 85 | 0.00 |
| 20 | | 3+4-Methylphenols | 1.377 | 1.366 | 0.8 | 91 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 87 | 0.00 |
| 22 | | Acetophenone | 0.456 | 0.445 | 2.4 | 87 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.359 | 0.353 | 1.7 | 85 | 0.00 |
| 24 | | Nitrobenzene | 0.398 | 0.387 | 2.8 | 86 | 0.00 |
| 25 | | Isophorone | 0.721 | 0.657 | 8.9 | 82 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.171 | 0.175 | -2.3 | 86 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.290 | 0.270 | 6.9 | 83 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.458 | 0.431 | 5.9 | 84 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.287 | 0.278 | 3.1 | 84 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.303 | 0.288 | 5.0 | 84 | 0.00 |
| 31 | | Naphthalene | 1.007 | 0.925 | 8.1 | 83 | 0.00 |
| 32 | | Benzoic acid | 0.173 | 0.131 | 24.3 | 68 | -0.02 |
| 33 | | 4-Chloroaniline | 0.438 | 0.407 | 7.1 | 84 | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.175 | 0.167 | 4.6 | 84 | 0.00 |
| 35 | | Caprolactam | 0.100 | 0.085 | 15.0 | 75 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 0.315 | 0.295 | 6.3 | 82 | 0.00 |
| 37 | | 2-Methylnaphthalene | 0.656 | 0.591 | 9.9 | 81 | 0.00 |
| 38 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 80 | 0.00 |
| 39 | | 1,2,4,5-Tetrachlorobenzene | 0.675 | 0.675 | 0.0 | 82 | 0.00 |
| 40 | P | Hexachlorocyclopentadiene | 0.088 | 0.008# | 90.9# | 7# | 0.00 |
| 41 | S | 2,4,6-Tribromophenol | 0.193 | 0.167 | 13.5 | 69 | 0.00 |
| 42 | C | 2,4,6-Trichlorophenol | 0.407 | 0.419 | -2.9 | 81 | 0.00 |
| 43 | | 2,4,5-Trichlorophenol | 0.445 | 0.439 | 1.3 | 78 | 0.00 |
| 44 | S | 2-Fluorobiphenyl | 1.289 | 1.292 | -0.2 | 81 | 0.00 |

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|---|---|---|---|---|---|---|---|
| 45 | | 1,1'-Biphenyl | 1.774 | 1.719 | 3.1 | 81 | 0.00 |
| 46 | | 2-Chloronaphthalene | 1.357 | 1.293 | 4.7 | 80 | 0.00 |
| 47 | | 2-Nitroaniline | 0.469 | 0.482 | -2.8 | 82 | 0.00 |
| 48 | | Acenaphthylene | 2.144 | 1.963 | 8.4 | 77 | 0.00 |
| 49 | | Dimethylphthalate | 1.609 | 1.494 | 7.1 | 78 | 0.00 |
| 50 | | 2,6-Dinitrotoluene | 0.327 | 0.316 | 3.4 | 76 | 0.00 |
| 51 | C | Acenaphthene | 1.288 | 1.189 | 7.7 | 78 | 0.00 |
| 52 | | 3-Nitroaniline | 0.408 | 0.404 | 1.0 | 78 | 0.00 |
| 53 | P | 2,4-Dinitrophenol | 0.087 | 0.006# | 93.1# | 5# | 0.04 |
| 54 | | Dibenzofuran | 1.637 | 1.600 | 2.3 | 79 | 0.00 |
| 55 | P | 4-Nitrophenol | 0.178 | 0.251 | -41.0# | 108 | 0.00 |
| 56 | | 2,4-Dinitrotoluene | 0.368 | 0.360 | 2.2 | 78 | 0.00 |
| 57 | | Fluorene | 1.385 | 1.298 | 6.3 | 76 | 0.00 |
| 58 | | 2,3,4,6-Tetrachlorophenol | 0.320 | 0.304 | 5.0 | 76 | 0.00 |
| 59 | | Diethylphthalate | 1.593 | 1.517 | 4.8 | 81 | 0.00 |
| 60 | | 4-Chlorophenyl-phenylether | 0.664 | 0.660 | 0.6 | 79 | 0.00 |
| 61 | | 4-Nitroaniline | 0.410 | 0.345 | 15.9 | 68 | 0.00 |
| 62 | | Azobenzene | 1.650 | 1.482 | 10.2 | 76 | 0.00 |
| 63 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 67 | 0.00 |
| 64 | | 4,6-Dinitro-2-methylphenol | 0.102 | 0.031 | 69.6# | 19# | 0.00 |
| 65 | c | n-Nitrosodiphenylamine | 0.738 | 0.793 | -7.5 | 74 | 0.00 |
| 66 | | 4-Bromophenyl-phenylether | 0.225 | 0.244 | -8.4 | 74 | 0.00 |
| 67 | | Hexachlorobenzene | 0.238 | 0.242 | -1.7 | 70 | 0.00 |
| 68 | | Atrazine | 0.220 | 0.225 | -2.3 | 69 | 0.00 |
| 69 | C | Pentachlorophenol | 0.079 | 0.098 | -24.1# | 82 | 0.00 |
| 70 | | Phenanthrene | 1.112 | 1.054 | 5.2 | 67 | 0.00 |
| 71 | | Anthracene | 1.136 | 1.065 | 6.2 | 66 | 0.00 |
| 72 | | Carbazole | 1.064 | 0.970 | 8.8 | 64 | 0.00 |
| 73 | | Di-n-butylphthalate | 1.291 | 1.351 | -4.6 | 74 | 0.00 |
| 74 | C | Fluoranthene | 1.167 | 0.979 | 16.1 | 59 | 0.00 |
| 75 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 65 | 0.00 |
| 76 | | Benzidine | 0.845 | 0.670 | 20.7 | 52 | 0.00 |
| 77 | | Pyrene | 1.501 | 1.307 | 12.9 | 58 | 0.00 |
| 78 | S | Terphenyl-d14 | 0.830 | 0.746 | 10.1 | 62 | 0.00 |
| 79 | | Butylbenzylphthalate | 0.679 | 0.620 | 8.7 | 60 | 0.00 |
| 80 | | Benzo(a)anthracene | 1.321 | 1.234 | 6.6 | 62 | 0.00 |
| 81 | | 3,3'-Dichlorobenzidine | 0.431 | 0.433 | -0.5 | 66 | 0.00 |
| 82 | | Chrysene | 1.247 | 1.172 | 6.0 | 63 | 0.00 |
| 83 | | Bis(2-ethylhexyl)phthalate | 0.860 | 0.814 | 5.3 | 63 | 0.00 |
| 84 | c | Di-n-octyl phthalate | 1.534 | 1.499 | 2.3 | 65 | 0.00 |
| 85 | | Indeno(1,2,3-cd)pyrene | 1.110 | 1.166 | -5.0 | 72 | 0.01 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 77 | 0.01 |
| 87 | | Benzo(b)fluoranthene | 1.219 | 1.084 | 11.1 | 68 | 0.00 |

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|---|---|---|---|---|---|---|
| 88 | Benzo(k)fluoranthene | 1.185 | 1.105 | 6.8 | 76 | 0.00 |
| 89 C | Benzo(a)pyrene | 1.124 | 1.058 | 5.9 | 74 | 0.01 |
| 90 | Dibenzo(a,h)anthracene | 0.965 | 0.893 | 7.5 | 75 | 0.01 |
| 91 | Benzo(g,h,i)perylene | 0.955 | 0.810 | 15.2 | 68 | 0.02 |

(#) = Out of Range SPCC's out = 2 CCC's out = 1