# Evaluate Continuing Calibration Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111816\
Data File : BF091232.D
Acq On : 18 Nov 2016 13:40
Operator : UM/SJ
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Nov 18 22:23:52 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 08 12:59:29 2016
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 | 96 | -0.05 |
| 2 | | 1,4-Dioxane | 0.693 | 0.536 | 22.7 | 75 | -0.10 |
| 3 | | Pyridine | 1.621 | 2.157 | -33.1# | 120 | -0.10 |
| 4 | | n-Nitrosodimethylamine | 0.641 | 0.725 | -13.1 | 102 | -0.10 |
| 5 | S | 2-Fluorophenol | 1.211 | 1.247 | -3.0 | 93 | -0.06 |
| 6 | | Aniline | 1.939 | 1.822 | 6.0 | 81 | -0.06 |
| 7 | S | Phenol-d6 | 1.644 | 1.453 | 11.6 | 79 | -0.05 |
| 8 | | 2-Chlorophenol | 1.445 | 1.465 | -1.4 | 94 | -0.06 |
| 9 | | Benzaldehyde | 0.912 | 0.741 | 18.8 | 75 | -0.05 |
| 10 | C | Phenol | 1.819 | 1.584 | 12.9 | 83 | -0.05 |
| 11 | | bis(2-Chloroethyl)ether | 1.533 | 1.388 | 9.5 | 85 | -0.06 |
| 12 | | 1,3-Dichlorobenzene | 1.461 | 1.577 | -7.9 | 98 | -0.06 |
| 13 | C | 1,4-Dichlorobenzene | 1.568 | 1.640 | -4.6 | 100 | -0.06 |
| 14 | | 1,2-Dichlorobenzene | 1.439 | 1.438 | 0.1 | 89 | -0.05 |
| 15 | | Benzyl Alcohol | 1.159 | 1.085 | 6.4 | 86 | -0.05 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 2.195 | 1.322 | 39.8# | 58 | -0.06 |
| 17 | | 2-Methylphenol | 1.144 | 1.150 | -0.5 | 89 | -0.05 |
| 18 | | Hexachloroethane | 0.607 | 0.545 | 10.2 | 82 | -0.06 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.139 | 0.966 | 15.2 | 82 | -0.05 |
| 20 | | 3+4-Methylphenols | 1.373 | 1.466 | -6.8 | 92 | -0.03 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 93 | -0.05 |
| 22 | | Acetophenone | 0.460 | 0.438 | 4.8 | 88 | -0.05 |
| 23 | S | Nitrobenzene-d5 | 0.367 | 0.312 | 15.0 | 81 | -0.06 |
| 24 | | Nitrobenzene | 0.405 | 0.365 | 9.9 | 78 | -0.05 |
| 25 | | Isophorone | 0.706 | 0.625 | 11.5 | 84 | -0.05 |
| 26 | C | 2-Nitrophenol | 0.171 | 0.197 | -15.2 | 106 | -0.05 |
| 27 | | 2,4-Dimethylphenol | 0.283 | 0.290 | -2.5 | 88 | -0.03 |
| 28 | | bis(2-Chloroethoxy)methane | 0.386 | 0.369 | 4.4 | 80 | -0.05 |
| 29 | C | 2,4-Dichlorophenol | 0.247 | 0.278 | -12.6 | 101 | -0.05 |
| 30 | | 1,2,4-Trichlorobenzene | 0.278 | 0.331 | -19.1 | 106 | -0.05 |
| 31 | | Naphthalene | 0.956 | 0.975 | -2.0 | 91 | -0.06 |
| 32 | | Benzoic acid | 0.199 | 0.198 | 0.5 | 85 | -0.02 |
| 33 | | 4-Chloroaniline | 0.398 | 0.432 | -8.5 | 99 | -0.05 |
| 34 | C | Hexachlorobutadiene | 0.150 | 0.192 | -28.0# | 120 | -0.06 |
| 35 | | Caprolactam | 0.078 | 0.083 | -6.4 | 98 | -0.05 |
| 36 | C | 4-Chloro-3-methylphenol | 0.299 | 0.319 | -6.7 | 94 | -0.03 |
| 37 | | 2-Methylnaphthalene | 0.615 | 0.645 | -4.9 | 99 | -0.06 |
| 38 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 106 | -0.05 |
| 39 | | 1,2,4,5-Tetrachlorobenzene | 0.510 | 0.600 | -17.6 | 111 | -0.05 |
| 40 | P | Hexachlorocyclopentadiene | 0.164 | 0.205 | -25.0 | 125 | -0.06 |
| 41 | S | 2,4,6-Tribromophenol | 0.181 | 0.215 | -18.8 | 132 | -0.05 |
| 42 | C | 2,4,6-Trichlorophenol | 0.329 | 0.349 | -6.1 | 103 | -0.05 |
| 43 | | 2,4,5-Trichlorophenol | 0.346 | 0.370 | -6.9 | 107 | -0.05 |
| 44 | S | 2-Fluorobiphenyl | 1.162 | 1.028 | 11.5 | 95 | -0.06 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | | 1,1'-Biphenyl | 1.460 | 1.506 | -3.2 | 105 | -0.05 |
| 46 | | 2-Chloronaphthalene | 1.109 | 1.163 | -4.9 | 105 | -0.05 |
| 47 | | 2-Nitroaniline | 0.411 | 0.306 | 25.5# | 70 | -0.05 |
| 48 | | Acenaphthylene | 1.728 | 1.732 | -0.2 | 105 | -0.05 |
| 49 | | Dimethylphthalate | 1.311 | 1.298 | 1.0 | 105 | -0.05 |
| 50 | | 2,6-Dinitrotoluene | 0.281 | 0.326 | -16.0 | 129 | -0.05 |
| 51 | C | Acenaphthene | 1.085 | 1.118 | -3.0 | 113 | -0.05 |
| 52 | | 3-Nitroaniline | 0.333 | 0.356 | -6.9 | 109 | -0.03 |
| 53 | P | 2,4-Dinitrophenol | 0.132 | 0.145 | -9.8 | 117 | -0.03 |
| 54 | | Dibenzofuran | 1.460 | 1.510 | -3.4 | 112 | -0.05 |
| 55 | P | 4-Nitrophenol | 0.186 | 0.170 | 8.6 | 88 | -0.03 |
| 56 | | 2,4-Dinitrotoluene | 0.358 | 0.342 | 4.5 | 90 | -0.05 |
| 57 | | Fluorene | 1.194 | 1.267 | -6.1 | 111 | -0.05 |
| 58 | | 2,3,4,6-Tetrachlorophenol | 0.271 | 0.326 | -20.3 | 111 | -0.05 |
| 59 | | Diethylphthalate | 1.345 | 1.248 | 7.2 | 94 | -0.05 |
| 60 | | 4-Chlorophenyl-phenylether | 0.543 | 0.550 | -1.3 | 98 | -0.06 |
| 61 | | 4-Nitroaniline | 0.337 | 0.332 | 1.5 | 97 | -0.03 |
| 62 | | Azobenzene | 1.583 | 1.127 | 28.8# | 76 | -0.06 |
| 63 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 113 | -0.05 |
| 64 | | 4,6-Dinitro-2-methylphenol | 0.122 | 0.134 | -9.8 | 124 | -0.05 |
| 65 | c | n-Nitrosodiphenylamine | 0.636 | 0.567 | 10.8 | 106 | -0.05 |
| 66 | | 4-Bromophenyl-phenylether | 0.208 | 0.243 | -16.8 | 143 | -0.05 |
| 67 | | Hexachlorobenzene | 0.229 | 0.254 | -10.9 | 119 | -0.06 |
| 68 | | Atrazine | 0.183 | 0.181 | 1.1 | 100 | -0.05 |
| 69 | C | Pentachlorophenol | 0.102 | 0.095 | 6.9 | 102 | -0.05 |
| 70 | | Phenanthrene | 1.063 | 1.031 | 3.0 | 103 | -0.06 |
| 71 | | Anthracene | 1.130 | 1.190 | -5.3 | 127 | -0.05 |
| 72 | | Carbazole | 1.019 | 1.020 | -0.1 | 121 | -0.05 |
| 73 | | Di-n-butylphthalate | 1.281 | 1.238 | 3.4 | 102 | -0.06 |
| 74 | C | Fluoranthene | 1.103 | 1.199 | -8.7 | 130 | -0.05 |
| 75 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 115 | -0.05 |
| 76 | | Benzidine | 0.447 | 0.353 | 21.0 | 83 | -0.05 |
| 77 | | Pyrene | 1.310 | 1.375 | -5.0 | 132 | -0.05 |
| 78 | S | Terphenyl-d14 | 0.801 | 0.798 | 0.4 | 109 | -0.05 |
| 79 | | Butylbenzylphthalate | 0.627 | 0.652 | -4.0 | 119 | -0.05 |
| 80 | | Benzo(a)anthracene | 1.136 | 1.107 | 2.6 | 112 | -0.06 |
| 81 | | 3,3'-Dichlorobenzidine | 0.399 | 0.450 | -12.8 | 129 | -0.05 |
| 82 | | Chrysene | 1.120 | 1.226 | -9.5 | 121 | -0.05 |
| 83 | | Bis(2-ethylhexyl)phthalate | 0.848 | 0.775 | 8.6 | 102 | -0.05 |
| 84 | c | Di-n-octyl phthalate | 1.394 | 1.336 | 4.2 | 103 | -0.06 |
| 85 | | Indeno(1,2,3-cd)pyrene | 0.929 | 0.923 | 0.6 | 119 | -0.08 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 132 | -0.06 |
| 87 | | Benzo(b)fluoranthene | 1.356 | 1.601 | -18.1 | 141 | -0.06 |

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| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 88 | Benzo(k)fluoranthene | 1.190 | 0.980 | 17.6 | 109 | -0.05 |
| 89 C | Benzo(a)pyrene | 1.181 | 1.117 | 5.4 | 116 | -0.06 |
| 90 | Dibenzo(a,h)anthracene | 1.021 | 0.934 | 8.5 | 115 | -0.09 |
| 91 | Benzo(g,h,i)perylene | 0.923 | 0.829 | 10.2 | 113 | -0.09 |

(#) = Out of Range SPCC's out = 0 CCC's out = 1