# Evaluate Continuing Calibration Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM093017\
Data File : BM011800.D
Acq On : 30 Sep 2017 18:56
Operator : SJ/JU
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** BNA_M
**LabSampleId :** SSTD02004

Quant Time: Oct 01 04:16:51 2017
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM092717.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Sep 30 06:38:23 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 21 | 0.02 |
| 2 | | 1,4-Dioxane | 0.499 | 0.498 | 0.2 | 21 | 0.02 |
| 3 | S | 1,4-Dioxane-d8 | 0.449 | 0.421 | 6.2 | 20# | 0.02 |
| 4 | | Benzaldehyde | 0.965 | 1.252 | -29.7# | 24 | 0.02 |
| 5 | S | Phenol-d5 | 1.967 | 2.017 | -2.5 | 23 | 0.02 |
| 6 | | Phenol | 1.989 | 2.115 | -6.3 | 24 | 0.02 |
| 7 | S | Bis-(2-Chloroethyl)ether-d8 | 1.427 | 1.439 | -0.8 | 22 | 0.02 |
| 8 | | Bis(2-Chloroethyl)ether | 1.530 | 1.498 | 2.1 | 22 | 0.02 |
| 9 | S | 2-Chlorophenol-d4 | 1.463 | 1.482 | -1.3 | 22 | 0.02 |
| 10 | | 2-Chlorophenol | 1.428 | 1.518 | -6.3 | 23 | 0.02 |
| 11 | | 2-Methylphenol | 1.461 | 1.503 | -2.9 | 23 | 0.02 |
| 12 | | 2,2'-oxybis(1-Chloropropane | 3.276 | 3.330 | -1.6 | 22 | 0.02 |
| 13 | S | 4-Methylphenol-d8 | 1.541 | 1.679 | -9.0 | 24 | 0.02 |
| 14 | | Acetophenone | 2.476 | 2.685 | -8.4 | 24 | 0.02 |
| 15 | P | N-Nitroso-di-n-propylamine | 1.397 | 1.562 | -11.8 | 24 | 0.02 |
| 16 | | 4-Methylphenol | 1.606 | 1.780 | -10.8 | 25 | 0.02 |
| 17 | | Hexachloroethane | 0.630 | 0.592 | 6.0 | 20 | 0.02 |
| 18 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 24 | 0.02 |
| 19 | S | Nitrobenzene-d5 | 0.156 | 0.148 | 5.1 | 23 | 0.02 |
| 20 | | Nitrobenzene | 0.429 | 0.421 | 1.9 | 24 | 0.02 |
| 21 | | Isophorone | 0.805 | 0.852 | -5.8 | 26 | 0.02 |
| 22 | S | 2-Nitrophenol-d4 | 0.166 | 0.165 | 0.6 | 24 | 0.02 |
| 23 | C | 2-Nitrophenol | 0.173 | 0.163 | 5.8 | 23 | 0.02 |
| 24 | | 2,4-Dimethylphenol | 0.394 | 0.414 | -5.1 | 25 | 0.02 |
| 25 | | Bis(2-Chloroethoxy)methane | 0.466 | 0.443 | 4.9 | 23 | 0.02 |
| 26 | S | 2,4-Dichlorophenol-d3 | 0.318 | 0.320 | -0.6 | 25 | 0.02 |
| 27 | C | 2,4-Dichlorophenol | 0.302 | 0.307 | -1.7 | 24 | 0.02 |
| 28 | | Naphthalene | 1.045 | 1.040 | 0.5 | 24 | 0.02 |
| 29 | S | 4-Chloroaniline-d4 | 0.351 | 0.430 | -22.5# | 26 | 0.02 |
| 30 | | 4-Chloroaniline | 0.340 | 0.424 | -24.7# | 27 | 0.02 |
| 31 | C | Hexachlorobutadiene | 0.213 | 0.187 | 12.2 | 22 | 0.02 |
| 32 | | Caprolactam | 0.098 | 0.132 | -34.7# | 34 | 0.02 |
| 33 | C | 4-Chloro-3-methylphenol | 0.342 | 0.390 | -14.0 | 28 | 0.02 |
| 34 | | 2-Methylnaphthalene | 0.741 | 0.749 | -1.1 | 25 | 0.02 |
| 35 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 28 | 0.02 |
| 36 | | 1,2,4,5-Tetrachlorobenzene | 0.676 | 0.598 | 11.5 | 25 | 0.02 |
| 37 | | Hexachlorocyclopentadiene | 0.435 | 0.238 | 45.3# | 17# | 0.02 |
| 38 | C | 2,4,6-Trichlorophenol | 0.434 | 0.441 | -1.6 | 29 | 0.02 |
| 39 | | 2,4,5-Trichlorophenol | 0.449 | 0.461 | -2.7 | 29 | 0.02 |
| 40 | | 1,1'-Biphenyl | 1.647 | 1.483 | 10.0 | 26 | 0.02 |
| 41 | | 2-Chloronaphthalene | 1.262 | 1.176 | 6.8 | 27 | 0.02 |
| 42 | | 2-Nitroaniline | 0.464 | 0.460 | 0.9 | 28 | 0.02 |
| 43 | S | Dimethylphthalate-d6 | 1.715 | 1.803 | -5.1 | 30 | 0.02 |
| 44 | | Dimethylphthalate | 1.641 | 1.735 | -5.7 | 30 | 0.02 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | | 2,6-Dinitrotoluene | 0.302 | 0.301 | 0.3 | 28 | 0.02 |
| 46 | S | Acenaphthylene-d8 | 2.074 | 2.002 | 3.5 | 27 | 0.02 |
| 47 | | Acenaphthylene | 2.081 | 2.005 | 3.7 | 28 | 0.02 |
| 48 | | 3-Nitroaniline | 0.309 | 0.290 | 6.1 | 28 | 0.02 |
| 49 | C | Acenaphthene | 1.417 | 1.361 | 4.0 | 27 | 0.02 |
| 50 | | 2,4-Dinitrophenol | 0.198 | 0.177 | 10.6 | 29 | 0.02 |
| 51 | S | 4-Nitrophenol-d4 | 0.293 | 0.314 | -7.2 | 33 | 0.02 |
| 52 | | 4-Nitrophenol | 0.287 | 0.351 | -22.3# | 37 | 0.02 |
| 53 | | Dibenzofuran | 1.946 | 1.958 | -0.6 | 29 | 0.02 |
| 54 | | 2,4-Dinitrotoluene | 0.431 | 0.479 | -11.1 | 31 | 0.02 |
| 55 | | 2,3,4,6-Tetrachlorophenol | 0.415 | 0.478 | -15.2 | 33 | 0.02 |
| 56 | | Diethylphthalate | 1.725 | 1.861 | -7.9 | 31 | 0.02 |
| 57 | S | Fluorene-d10 | 1.477 | 1.534 | -3.9 | 30 | 0.02 |
| 58 | | Fluorene | 1.648 | 1.680 | -1.9 | 29 | 0.02 |
| 59 | | 4-Chlorophenyl-phenylether | 0.829 | 0.826 | 0.4 | 29 | 0.02 |
| 60 | | 4-Nitroaniline | 0.339 | 0.378 | -11.5 | 36 | 0.02 |
| 61 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 33 | 0.02 |
| 62 | S | 4,6-Dinitro-2-methylphenol- | 0.135 | 0.117 | 13.3 | 33 | 0.02 |
| 63 | | 4,6-Dinitro-2-methylphenol | 0.138 | 0.121 | 12.3 | 33 | 0.02 |
| 64 | | N-Nitrosodiphenylamine | 0.591 | 0.524 | 11.3 | 30 | 0.02 |
| 65 | | 4-Bromophenyl-phenylether | 0.220 | 0.196 | 10.9 | 31 | 0.02 |
| 66 | | Hexachlorobenzene | 0.244 | 0.233 | 4.5 | 33 | 0.02 |
| 67 | | Atrazine | 0.229 | 0.220 | 3.9 | 35 | 0.01 |
| 68 | C | Pentachlorophenol | 0.161 | 0.157 | 2.5 | 37 | 0.02 |
| 69 | | Phenanthrene | 1.119 | 1.098 | 1.9 | 34 | 0.02 |
| 70 | S | Anthracene-d10 | 1.018 | 0.977 | 4.0 | 33 | 0.02 |
| 71 | | Anthracene | 1.153 | 1.116 | 3.2 | 33 | 0.02 |
| 72 | | Carbazole | 1.010 | 1.008 | 0.2 | 35 | 0.02 |
| 73 | | Di-n-butylphthalate | 1.301 | 1.357 | -4.3 | 35 | 0.02 |
| 74 | C | Fluoranthene | 1.367 | 1.514 | -10.8 | 39 | 0.02 |
| 75 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 45 | 0.02 |
| 76 | S | Pyrene-d10 | 0.955 | 0.833 | 12.8 | 39 | 0.02 |
| 77 | | Pyrene | 1.192 | 1.047 | 12.2 | 39 | 0.02 |
| 78 | | Butylbenzylphthalate | 0.498 | 0.483 | 3.0 | 42 | 0.02 |
| 79 | | 3,3'-Dichlorobenzidine | 0.380 | 0.401 | -5.5 | 48 | 0.02 |
| 80 | | Benzo(a)anthracene | 1.119 | 1.141 | -2.0 | 45 | 0.02 |
| 81 | | Bis(2-ethylhexyl)phthalate | 0.744 | 0.765 | -2.8 | 45 | 0.02 |
| 82 | | Chrysene | 1.055 | 1.117 | -5.9 | 47 | 0.02 |
| 83 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 59 | 0.03 |
| 84 | | Di-n-octyl phthalate | 1.546 | 1.148 | 25.7# | 49 | 0.02 |
| 85 | | Benzo(b)fluoranthene | 1.180 | 1.069 | 9.4 | 53 | 0.02 |
| 86 | | Benzo(k)fluoranthene | 1.204 | 1.056 | 12.3 | 57 | 0.03 |
| 87 | S | Benzo(a)pyrene-d12 | 0.958 | 0.956 | 0.2 | 60 | 0.03 |

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|---|---|---|---|---|---|---|
| 88 C | Benzo(a)pyrene | 1.140 | 1.103 | 3.2 | 59 | 0.03 |
| 89 | Indeno(1,2,3-cd)pyrene | 1.187 | 1.579 | -33.0# | 77 | 0.05 |
| 90 | Dibenzo(a,h)anthracene | 0.994 | 1.320 | -32.8# | 76 | 0.05 |
| 91 | Benzo(g,h,i)perylene | 0.985 | 1.404 | -42.5# | 80 | 0.05 |

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