# Evaluate Continuing Calibration Report

Data Path : Z:\HPCHEM1\BNA_M\Data\BM062416\
Data File : BM005991.D
Acq On : 25 Jun 2016 06:25
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** BNA_M
**LabSampleId :** SSTD02058

Quant Time: Jun 27 03:25:26 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM062216.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Jun 24 23:55:23 2016
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 | 115 | 0.00 |
| 2 | | 1,4-Dioxane | 0.544 | 0.515 | 5.3 | 109 | 0.00 |
| 3 | S | 1,4-Dioxane-d8 | 0.502 | 0.456 | 9.2 | 106 | 0.00 |
| 4 | | Benzaldehyde | 0.332 | 0.434 | -30.7# | 124 | 0.00 |
| 5 | S | Phenol-d5 | 1.722 | 1.808 | -5.0 | 112 | 0.00 |
| 6 | | Phenol | 1.874 | 1.981 | -5.7 | 111 | 0.00 |
| 7 | S | Bis-(2-Chloroethyl)ether-d8 | 1.054 | 1.099 | -4.3 | 110 | 0.00 |
| 8 | | Bis(2-Chloroethyl)ether | 1.377 | 1.418 | -3.0 | 108 | 0.00 |
| 9 | S | 2-Chlorophenol-d4 | 1.356 | 1.384 | -2.1 | 112 | 0.00 |
| 10 | | 2-Chlorophenol | 1.417 | 1.428 | -0.8 | 111 | 0.00 |
| 11 | | 2-Methylphenol | 1.360 | 1.422 | -4.6 | 109 | 0.00 |
| 12 | | 2,2'-oxybis(1-Chloropropane | 2.015 | 2.097 | -4.1 | 108 | 0.00 |
| 13 | S | 4-Methylphenol-d8 | 1.349 | 1.420 | -5.3 | 108 | 0.00 |
| 14 | | Acetophenone | 2.076 | 2.214 | -6.6 | 106 | 0.00 |
| 15 | P | N-Nitroso-di-n-propylamine | 1.145 | 1.165 | -1.7 | 101 | 0.00 |
| 16 | | 4-Methylphenol | 1.472 | 1.532 | -4.1 | 106 | 0.00 |
| 17 | | Hexachloroethane | 0.573 | 0.587 | -2.4 | 116 | 0.00 |
| 18 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 106 | 0.00 |
| 19 | S | Nitrobenzene-d5 | 0.147 | 0.156 | -6.1 | 111 | 0.00 |
| 20 | | Nitrobenzene | 0.387 | 0.403 | -4.1 | 109 | 0.00 |
| 21 | | Isophorone | 0.710 | 0.730 | -2.8 | 101 | 0.00 |
| 22 | S | 2-Nitrophenol-d4 | 0.154 | 0.166 | -7.8 | 111 | 0.00 |
| 23 | C | 2-Nitrophenol | 0.173 | 0.187 | -8.1 | 111 | 0.00 |
| 24 | | 2,4-Dimethylphenol | 0.377 | 0.389 | -3.2 | 105 | 0.00 |
| 25 | | Bis(2-Chloroethoxy)methane | 0.442 | 0.447 | -1.1 | 102 | 0.00 |
| 26 | S | 2,4-Dichlorophenol-d3 | 0.295 | 0.317 | -7.5 | 108 | 0.00 |
| 27 | C | 2,4-Dichlorophenol | 0.299 | 0.315 | -5.4 | 107 | 0.00 |
| 28 | | Naphthalene | 0.998 | 1.014 | -1.6 | 106 | 0.00 |
| 29 | S | 4-Chloroaniline-d4 | 0.323 | 0.385 | -19.2 | 105 | 0.00 |
| 30 | | 4-Chloroaniline | 0.348 | 0.410 | -17.8 | 105 | 0.00 |
| 31 | C | Hexachlorobutadiene | 0.184 | 0.196 | -6.5 | 114 | 0.00 |
| 32 | | Caprolactam | 0.110 | 0.114 | -3.6 | 100 | 0.01 |
| 33 | C | 4-Chloro-3-methylphenol | 0.348 | 0.361 | -3.7 | 101 | 0.00 |
| 34 | | 2-Methylnaphthalene | 0.731 | 0.743 | -1.6 | 103 | 0.00 |
| 35 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 36 | | 1,2,4,5-Tetrachlorobenzene | 0.635 | 0.678 | -6.8 | 107 | 0.00 |
| 37 | | Hexachlorocyclopentadiene | 0.367 | 0.321 | 12.5 | 86 | 0.00 |
| 38 | C | 2,4,6-Trichlorophenol | 0.431 | 0.472 | -9.5 | 105 | 0.00 |
| 39 | | 2,4,5-Trichlorophenol | 0.450 | 0.489 | -8.7 | 103 | 0.00 |
| 40 | | 1,1'-Biphenyl | 1.643 | 1.680 | -2.3 | 100 | 0.00 |
| 41 | | 2-Chloronaphthalene | 1.267 | 1.311 | -3.5 | 102 | 0.00 |
| 42 | | 2-Nitroaniline | 0.425 | 0.471 | -10.8 | 103 | 0.00 |
| 43 | S | Dimethylphthalate-d6 | 1.589 | 1.582 | 0.4 | 92 | 0.00 |
| 44 | | Dimethylphthalate | 1.604 | 1.595 | 0.6 | 92 | 0.00 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | | 2,6-Dinitrotoluene | 0.314 | 0.335 | -6.7 | 97 | 0.00 |
| 46 | S | Acenaphthylene-d8 | 1.985 | 2.061 | -3.8 | 99 | 0.00 |
| 47 | | Acenaphthylene | 2.108 | 2.166 | -2.8 | 98 | 0.00 |
| 48 | | 3-Nitroaniline | 0.315 | 0.385 | -22.2# | 102 | 0.00 |
| 49 | C | Acenaphthene | 1.334 | 1.369 | -2.6 | 99 | 0.00 |
| 50 | | 2,4-Dinitrophenol | 0.172 | 0.156 | 9.3 | 102 | 0.00 |
| 51 | S | 4-Nitrophenol-d4 | 0.311 | 0.323 | -3.9 | 100 | 0.00 |
| 52 | | 4-Nitrophenol | 0.297 | 0.310 | -4.4 | 102 | 0.01 |
| 53 | | Dibenzofuran | 1.925 | 1.951 | -1.4 | 97 | 0.00 |
| 54 | | 2,4-Dinitrotoluene | 0.462 | 0.481 | -4.1 | 94 | 0.00 |
| 55 | | 2,3,4,6-Tetrachlorophenol | 0.400 | 0.432 | -8.0 | 101 | 0.00 |
| 56 | | Diethylphthalate | 1.658 | 1.640 | 1.1 | 91 | 0.00 |
| 57 | S | Fluorene-d10 | 1.373 | 1.385 | -0.9 | 96 | 0.00 |
| 58 | | Fluorene | 1.500 | 1.528 | -1.9 | 97 | 0.00 |
| 59 | | 4-Chlorophenyl-phenylether | 0.720 | 0.739 | -2.6 | 97 | 0.00 |
| 60 | | 4-Nitroaniline | 0.390 | 0.417 | -6.9 | 100 | 0.00 |
| 61 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 62 | S | 4,6-Dinitro-2-methylphenol- | 0.100 | 0.102 | -2.0 | 96 | 0.00 |
| 63 | | 4,6-Dinitro-2-methylphenol | 0.109 | 0.111 | -1.8 | 94 | 0.00 |
| 64 | | N-Nitrosodiphenylamine | 0.578 | 0.604 | -4.5 | 94 | 0.00 |
| 65 | | 4-Bromophenyl-phenylether | 0.204 | 0.219 | -7.4 | 95 | 0.00 |
| 66 | | Hexachlorobenzene | 0.227 | 0.243 | -7.0 | 97 | 0.00 |
| 67 | | Atrazine | 0.204 | 0.218 | -6.9 | 87 | 0.00 |
| 68 | C | Pentachlorophenol | 0.136 | 0.153 | -12.5 | 101 | 0.00 |
| 69 | | Phenanthrene | 1.086 | 1.103 | -1.6 | 93 | 0.00 |
| 70 | S | Anthracene-d10 | 0.911 | 0.938 | -3.0 | 93 | 0.00 |
| 71 | | Anthracene | 1.109 | 1.146 | -3.3 | 94 | 0.00 |
| 72 | | Carbazole | 0.954 | 1.028 | -7.8 | 92 | 0.00 |
| 73 | | Di-n-butylphthalate | 1.232 | 1.246 | -1.1 | 87 | 0.00 |
| 74 | C | Fluoranthene | 1.191 | 1.296 | -8.8 | 91 | 0.00 |
| 75 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 76 | S | Pyrene-d10 | 0.928 | 1.015 | -9.4 | 90 | 0.00 |
| 77 | | Pyrene | 1.223 | 1.345 | -10.0 | 92 | 0.00 |
| 78 | | Butylbenzylphthalate | 0.511 | 0.586 | -14.7 | 90 | 0.00 |
| 79 | | 3,3'-Dichlorobenzidine | 0.333 | 0.455 | -36.6# | 107 | 0.00 |
| 80 | | Benzo(a)anthracene | 1.187 | 1.220 | -2.8 | 90 | 0.00 |
| 81 | | Bis(2-ethylhexyl)phthalate | 0.716 | 0.778 | -8.7 | 86 | 0.00 |
| 82 | | Chrysene | 1.095 | 1.113 | -1.6 | 89 | 0.00 |
| 83 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 105 | 0.00 |
| 84 | | Di-n-octyl phthalate | 1.195 | 1.416 | -18.5 | 97 | 0.00 |
| 85 | | Benzo(b)fluoranthene | 1.215 | 1.225 | -0.8 | 97 | 0.00 |
| 86 | | Benzo(k)fluoranthene | 1.106 | 1.141 | -3.2 | 99 | 0.00 |
| 87 | S | Benzo(a)pyrene-d12 | 0.901 | 0.930 | -3.2 | 103 | 0.00 |

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|---|---|---|---|---|---|---|
| 88 C | Benzo(a)pyrene | 1.128 | 1.152 | -2.1 | 102 | 0.00 |
| 89 | Indeno(1,2,3-cd)pyrene | 1.259 | 1.300 | -3.3 | 114 | 0.00 |
| 90 | Dibenzo(a,h)anthracene | 1.039 | 1.081 | -4.0 | 115 | 0.00 |
| 91 | Benzo(g,h,i)perylene | 1.086 | 1.114 | -2.6 | 116 | 0.00 |

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