# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN061419\
Data File : VN056324.D
Acq On : 14 Jun 2019 20:01
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_N
**LabSampleId :** VSTDCCC050

Quant Time: Jun 15 00:45:56 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
Quant Title : SW846 8260
QLast Update : Tue Jun 04 11:02:09 2019
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 | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.491 | 0.520 | -5.9 | 85 | 0.00 |
| 3 | P | Chloromethane | 0.542 | 0.575 | -6.1 | 91 | 0.00 |
| 4 | C | Vinyl Chloride | 0.544 | 0.571 | -5.0# | 90 | 0.00 |
| 5 | T | Bromomethane | 0.343 | 0.309 | 9.9 | 78 | -0.02 |
| 6 | T | Chloroethane | 0.315 | 0.335 | -6.3 | 92 | -0.01 |
| 7 | T | Trichlorofluoromethane | 0.694 | 0.737 | -6.2 | 94 | 0.00 |
| 8 | T | Diethyl Ether | 0.285 | 0.305 | -7.0 | 96 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.422 | 0.464 | -10.0 | 98 | 0.00 |
| 10 | T | Methyl Iodide | 0.670 | 0.598 | 10.7 | 78 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.086 | 0.093 | -8.1 | 97 | 0.01 |
| 12 | CM | 1,1-Dichloroethene | 0.420 | 0.449 | -6.9# | 94 | 0.00 |
| 13 | T | Acrolein | 0.025 | 0.023 | 8.0 | 85 | 0.00 |
| 14 | T | Allyl chloride | 0.663 | 0.763 | -15.1 | 101 | 0.00 |
| 15 | T | Acrylonitrile | 0.210 | 0.284 | -35.2# | 115 | 0.00 |
| 16 | T | Acetone | 0.237 | 0.254 | -7.2 | 94 | 0.00 |
| 17 | T | Carbon Disulfide | 1.005 | 0.944 | 6.1 | 80 | 0.00 |
| 18 | T | Methyl Acetate | 0.521 | 0.691 | -32.6# | 134 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.338 | 1.549 | -15.8 | 103 | 0.00 |
| 20 | T | Methylene Chloride | 0.489 | 0.550 | -12.5 | 102 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.450 | 0.472 | -4.9 | 92 | 0.00 |
| 22 | T | Diisopropyl ether | 1.370 | 1.650 | -20.4 | 108 | 0.00 |
| 23 | T | Vinyl Acetate | 1.079 | 1.328 | -23.1 | 104 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.790 | 0.937 | -18.6 | 105 | 0.00 |
| 25 | T | 2-Butanone | 0.300 | 0.380 | -26.7# | 109 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.617 | 0.606 | 1.8 | 87 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.529 | 0.586 | -10.8 | 98 | 0.00 |
| 28 | T | Bromochloromethane | 0.374 | 0.462 | -23.5 | 106 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.185 | 0.245 | -32.4# | 115 | 0.00 |
| 30 | C | Chloroform | 0.795 | 0.940 | -18.2# | 105 | 0.00 |
| 31 | T | Cyclohexane | 0.788 | 0.787 | 0.1 | 93 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.664 | 0.757 | -14.0 | 100 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.496 | 0.575 | -15.9 | 103 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.307 | 0.326 | -6.2 | 103 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.430 | 0.419 | 2.6 | 97 | 0.00 |
| 37 | T | Ethyl Acetate | 0.383 | 0.461 | -20.4 | 113 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.396 | 0.417 | -5.3 | 102 | 0.00 |
| 39 | T | Methylcyclohexane | 0.536 | 0.487 | 9.1 | 89 | 0.00 |
| 40 | TM | Benzene | 1.306 | 1.331 | -1.9 | 99 | 0.00 |
| 41 | T | Methacrylonitrile | 0.176 | 0.217 | -23.3 | 125 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.420 | 0.451 | -7.4 | 107 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.620 | 0.702 | -13.2 | 107 | 0.00 |
| 44 | TM | Trichloroethene | 0.375 | 0.360 | 4.0 | 94 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.334 | 0.372 | -11.4# | 109 | 0.00 |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.219 | 0.239 | -9.1 | 106 | 0.00 |
| 47 | T | Bromodichloromethane | 0.396 | 0.464 | -17.2 | 110 | 0.00 |
| 48 | T | Methyl methacrylate | 0.303 | 0.363 | -19.8 | 117 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.007 | 0.007 | 0.0 | 106 | 0.00 |
| 50 | S | Toluene-d8 | 1.180 | 1.184 | -0.3 | 98 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.388 | 0.461 | -18.8 | 114 | 0.00 |
| 52 | CM | Toluene | 0.813 | 0.831 | -2.2# | 98 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.411 | 0.456 | -10.9 | 102 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.476 | 0.538 | -13.0 | 104 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.322 | 0.357 | -10.9 | 107 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.470 | 0.535 | -13.8 | 107 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.523 | 0.584 | -11.7 | 107 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.165 | 0.172 | -4.2 | 99 | 0.00 |
| 59 | T | 2-Hexanone | 0.281 | 0.322 | -14.6 | 110 | 0.00 |
| 60 | T | Dibromochloromethane | 0.311 | 0.376 | -20.9 | 109 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.329 | 0.365 | -10.9 | 106 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.401 | 0.411 | -2.5 | 98 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 64 | T | Tetrachloroethene | 0.433 | 0.394 | 9.0 | 93 | 0.00 |
| 65 | PM | Chlorobenzene | 0.995 | 1.015 | -2.0 | 102 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.344 | 0.389 | -13.1 | 108 | 0.00 |
| 67 | C | Ethyl Benzene | 1.730 | 1.749 | -1.1# | 99 | 0.00 |
| 68 | T | m/p-Xylenes | 0.661 | 0.658 | 0.5 | 97 | 0.00 |
| 69 | T | o-Xylene | 0.650 | 0.649 | 0.2 | 98 | 0.00 |
| 70 | T | Styrene | 1.033 | 1.102 | -6.7 | 100 | 0.00 |
| 71 | P | Bromoform | 0.248 | 0.303 | -22.2 | 110 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 73 | T | Isopropylbenzene | 4.046 | 4.125 | -2.0 | 100 | 0.00 |
| 74 | T | N-amyl acetate | 1.333 | 1.526 | -14.5 | 107 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.161 | 1.318 | -13.5 | 109 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.920 | 1.083 | -17.7 | 112 | 0.00 |
| 77 | T | Bromobenzene | 1.070 | 1.096 | -2.4 | 98 | 0.00 |
| 78 | T | n-propylbenzene | 4.230 | 4.467 | -5.6 | 100 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.663 | 2.732 | -2.6 | 101 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.362 | 3.382 | -0.6 | 99 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.276 | 0.326 | -18.1 | 103 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.475 | 2.633 | -6.4 | 100 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.995 | 3.060 | -2.2 | 101 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.188 | 3.320 | -4.1 | 98 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.746 | 3.857 | -3.0 | 98 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.353 | 3.429 | -2.3 | 95 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.657 | 1.736 | -4.8 | 96 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.594 | 1.650 | -3.5 | 95 | 0.00 |
| 89 | T | n-Butylbenzene | 2.484 | 2.549 | -2.6 | 92 | 0.00 |

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|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.506 | 0.610 | -20.6 | 110 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.673 | 1.709 | -2.2 | 95 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.166 | 0.218 | -31.3# | 112 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 0.767 | 0.752 | 2.0 | 83 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.652 | 0.601 | 7.8 | 92 | 0.00 |
| 95 T | Naphthalene | 1.988 | 2.151 | -8.2 | 89 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.817 | 0.866 | -6.0 | 90 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6