# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX100919\
Data File : VX012957.D
Acq On : 09 Oct 2019 21:11
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** MSVOA_X
**LabSampleId :** VSTDCCC050

Quant Time: Oct 10 06:57:00 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 09 01:51:23 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% 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 | 0.510 | 0.527 | -3.3 | 86 | 0.00 |
| 3 | P | Chloromethane | 0.555 | 0.579 | -4.3 | 91 | 0.00 |
| 4 | C | Vinyl Chloride | 0.573 | 0.588 | -2.6# | 90 | 0.00 |
| 5 | T | Bromomethane | 0.238 | 0.221 | 7.1 | 89 | 0.00 |
| 6 | T | Chloroethane | 0.337 | 0.361 | -7.1 | 91 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.773 | 0.817 | -5.7 | 91 | 0.00 |
| 8 | T | Diethyl Ether | 0.312 | 0.322 | -3.2 | 90 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.500 | 0.519 | -3.8 | 90 | 0.00 |
| 10 | T | Methyl Iodide | 0.492 | 0.546 | -11.0 | 89 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.166 | 0.164 | 1.2 | 91 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.505 | 0.521 | -3.2# | 89 | 0.00 |
| 13 | T | Acrolein | 0.118 | 0.111 | 5.9 | 83 | 0.00 |
| 14 | T | Allyl chloride | 0.900 | 0.927 | -3.0 | 88 | 0.00 |
| 15 | T | Acrylonitrile | 0.314 | 0.333 | -6.1 | 90 | 0.00 |
| 16 | T | Acetone | 0.329 | 0.290 | 11.9 | 76 | 0.00 |
| 17 | T | Carbon Disulfide | 1.441 | 1.387 | 3.7 | 87 | 0.00 |
| 18 | T | Methyl Acetate | 0.781 | 0.806 | -3.2 | 92 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.745 | 1.868 | -7.0 | 91 | 0.00 |
| 20 | T | Methylene Chloride | 0.605 | 0.596 | 1.5 | 90 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.542 | 0.551 | -1.7 | 89 | 0.00 |
| 22 | T | Diisopropyl ether | 1.724 | 1.846 | -7.1 | 91 | 0.00 |
| 23 | T | Vinyl Acetate | 1.488 | 1.604 | -7.8 | 89 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.970 | 1.024 | -5.6 | 91 | 0.00 |
| 25 | T | 2-Butanone | 0.457 | 0.459 | -0.4 | 85 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.816 | 0.795 | 2.6 | 83 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.624 | 0.648 | -3.8 | 90 | 0.00 |
| 28 | T | Bromochloromethane | 0.278 | 0.317 | -14.0 | 91 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.281 | 0.296 | -5.3 | 88 | 0.00 |
| 30 | C | Chloroform | 0.995 | 1.031 | -3.6# | 91 | 0.00 |
| 31 | T | Cyclohexane | 0.907 | 0.923 | -1.8 | 89 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.843 | 0.913 | -8.3 | 91 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.625 | 0.652 | -4.3 | 92 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.287 | 0.297 | -3.5 | 91 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.440 | 0.457 | -3.9 | 89 | 0.00 |
| 37 | T | Ethyl Acetate | 0.492 | 0.508 | -3.3 | 88 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.428 | 0.449 | -4.9 | 88 | 0.00 |
| 39 | T | Methylcyclohexane | 0.533 | 0.560 | -5.1 | 88 | 0.00 |
| 40 | TM | Benzene | 1.298 | 1.375 | -5.9 | 91 | 0.00 |
| 41 | T | Methacrylonitrile | 0.270 | 0.285 | -5.6 | 92 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.466 | 0.493 | -5.8 | 90 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.789 | 0.833 | -5.6 | 89 | 0.00 |
| 44 | TM | Trichloroethene | 0.360 | 0.353 | 1.9 | 88 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.331 | 0.352 | -6.3# | 91 | 0.00 |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.220 | 0.234 | -6.4 | 90 | 0.00 |
| 47 | T | Bromodichloromethane | 0.430 | 0.469 | -9.1 | 91 | 0.00 |
| 48 | T | Methyl methacrylate | 0.384 | 0.411 | -7.0 | 90 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.009 | 0.010 | -11.1 | 90 | 0.00 |
| 50 | S | Toluene-d8 | 1.119 | 1.143 | -2.1 | 91 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.492 | 0.522 | -6.1 | 90 | 0.00 |
| 52 | CM | Toluene | 0.831 | 0.875 | -5.3# | 92 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.476 | 0.503 | -5.7 | 86 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.529 | 0.562 | -6.2 | 88 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.329 | 0.349 | -6.1 | 92 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.532 | 0.572 | -7.5 | 89 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.569 | 0.602 | -5.8 | 92 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.241 | 0.256 | -6.2 | 88 | 0.00 |
| 59 | T | 2-Hexanone | 0.383 | 0.403 | -5.2 | 88 | 0.00 |
| 60 | T | Dibromochloromethane | 0.322 | 0.352 | -9.3 | 87 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.346 | 0.364 | -5.2 | 91 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.435 | 0.445 | -2.3 | 91 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 64 | T | Tetrachloroethene | 0.347 | 0.361 | -4.0 | 92 | 0.00 |
| 65 | PM | Chlorobenzene | 0.993 | 0.999 | -0.6 | 90 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.344 | 0.362 | -5.2 | 88 | 0.00 |
| 67 | C | Ethyl Benzene | 1.764 | 1.832 | -3.9# | 89 | 0.00 |
| 68 | T | m/p-Xylenes | 0.659 | 0.695 | -5.5 | 91 | 0.00 |
| 69 | T | o-Xylene | 0.643 | 0.668 | -3.9 | 90 | 0.00 |
| 70 | T | Styrene | 1.092 | 1.159 | -6.1 | 90 | 0.00 |
| 71 | P | Bromoform | 0.248 | 0.262 | -5.6 | 85 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 73 | T | Isopropylbenzene | 3.676 | 3.914 | -6.5 | 91 | 0.00 |
| 74 | T | N-amyl acetate | 1.583 | 1.730 | -9.3 | 90 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.223 | 1.292 | -5.6 | 93 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.109 | 1.206 | -8.7 | 105 | 0.00 |
| 77 | T | Bromobenzene | 0.866 | 0.902 | -4.2 | 90 | 0.00 |
| 78 | T | n-propylbenzene | 4.045 | 4.334 | -7.1 | 92 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.542 | 2.702 | -6.3 | 92 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.070 | 3.386 | -10.3 | 93 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.392 | 0.400 | -2.0 | 86 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.914 | 3.128 | -7.3 | 91 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.994 | 3.177 | -6.1 | 89 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.109 | 3.365 | -8.2 | 90 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.469 | 3.779 | -8.9 | 90 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.217 | 3.440 | -6.9 | 90 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.609 | 1.652 | -2.7 | 89 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.629 | 1.665 | -2.2 | 91 | 0.00 |
| 89 | T | n-Butylbenzene | 2.704 | 2.917 | -7.9 | 89 | 0.00 |

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|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.521 | 0.583 | -11.9 | 89 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.577 | 1.642 | -4.1 | 90 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.287 | 0.306 | -6.6 | 86 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 0.988 | 1.051 | -6.4 | 89 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.456 | 0.466 | -2.2 | 89 | 0.00 |
| 95 T | Naphthalene | 3.425 | 3.700 | -8.0 | 88 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.021 | 1.057 | -3.5 | 89 | 0.00 |

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