# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120519\
Data File : VX013765.D
Acq On : 05 Dec 2019 09:52
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Dec 06 02:32:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 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 | 97 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.557 | 0.568 | -2.0 | 98 | 0.00 |
| 3 | P | Chloromethane | 0.624 | 0.591 | 5.3 | 93 | 0.00 |
| 4 | C | Vinyl Chloride | 0.703 | 0.712 | -1.3# | 97 | 0.00 |
| 5 | T | Bromomethane | 0.472 | 0.415 | 12.1 | 93 | 0.00 |
| 6 | T | Chloroethane | 0.400 | 0.391 | 2.3 | 101 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.780 | 0.776 | 0.5 | 103 | 0.00 |
| 8 | T | Diethyl Ether | 0.353 | 0.357 | -1.1 | 102 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.477 | 0.484 | -1.5 | 105 | 0.00 |
| 10 | T | Methyl Iodide | 0.577 | 0.567 | 1.7 | 91 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.143 | 0.113 | 21.0# | 83 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.476 | 0.472 | 0.8# | 99 | 0.00 |
| 13 | T | Acrolein | 0.088 | 0.115 | -30.7# | 118 | 0.00 |
| 14 | T | Allyl chloride | 0.864 | 0.850 | 1.6 | 98 | 0.00 |
| 15 | T | Acrylonitrile | 0.296 | 0.276 | 6.8 | 93 | 0.00 |
| 16 | T | Acetone | 0.287 | 0.333 | -16.0 | 116 | 0.00 |
| 17 | T | Carbon Disulfide | 1.356 | 1.262 | 6.9 | 95 | 0.00 |
| 18 | T | Methyl Acetate | 0.798 | 0.791 | 0.9 | 95 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.576 | 1.595 | -1.2 | 101 | 0.00 |
| 20 | T | Methylene Chloride | 0.551 | 0.537 | 2.5 | 101 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.518 | 0.508 | 1.9 | 100 | 0.00 |
| 22 | T | Diisopropyl ether | 1.663 | 1.694 | -1.9 | 101 | 0.00 |
| 23 | T | Vinyl Acetate | 1.383 | 1.374 | 0.7 | 97 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.909 | 0.924 | -1.7 | 102 | 0.00 |
| 25 | T | 2-Butanone | 0.426 | 0.437 | -2.6 | 100 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.752 | 0.781 | -3.9 | 105 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.595 | 0.588 | 1.2 | 100 | 0.00 |
| 28 | T | Bromochloromethane | 0.320 | 0.371 | -15.9 | 100 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.263 | 0.243 | 7.6 | 89 | 0.00 |
| 30 | C | Chloroform | 0.922 | 0.897 | 2.7# | 100 | 0.00 |
| 31 | T | Cyclohexane | 0.857 | 0.839 | 2.1 | 100 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.770 | 0.780 | -1.3 | 102 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.580 | 0.496 | 14.5 | 88 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.309 | 0.287 | 7.1 | 92 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.454 | 0.472 | -4.0 | 100 | 0.00 |
| 37 | T | Ethyl Acetate | 0.509 | 0.508 | 0.2 | 92 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.419 | 0.456 | -8.8 | 102 | 0.00 |
| 39 | T | Methylcyclohexane | 0.561 | 0.601 | -7.1 | 104 | 0.00 |
| 40 | TM | Benzene | 1.382 | 1.426 | -3.2 | 100 | 0.00 |
| 41 | T | Methacrylonitrile | 0.279 | 0.288 | -3.2 | 94 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.471 | 0.494 | -4.9 | 101 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.838 | 0.854 | -1.9 | 96 | 0.00 |
| 44 | TM | Trichloroethene | 0.379 | 0.393 | -3.7 | 101 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.346 | 0.371 | -7.2# | 102 | 0.00 |

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Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Dec 06 02:32:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 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) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.235 | 0.240 | -2.1 | 100 | 0.00 |
| 47 | T | Bromodichloromethane | 0.444 | 0.493 | -11.0 | 104 | 0.00 |
| 48 | T | Methyl methacrylate | 0.407 | 0.429 | -5.4 | 96 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.009 | 0.008 | 11.1 | 79 | 0.00 |
| 50 | S | Toluene-d8 | 1.204 | 1.088 | 9.6 | 89 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.527 | 0.527 | 0.0 | 93 | 0.00 |
| 52 | CM | Toluene | 0.859 | 0.911 | -6.1# | 102 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.505 | 0.550 | -8.9 | 101 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.552 | 0.606 | -9.8 | 101 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.346 | 0.368 | -6.4 | 101 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.556 | 0.596 | -7.2 | 100 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.597 | 0.619 | -3.7 | 101 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.218 | 0.241 | -10.6 | 104 | 0.00 |
| 59 | T | 2-Hexanone | 0.411 | 0.425 | -3.4 | 96 | 0.00 |
| 60 | T | Dibromochloromethane | 0.359 | 0.398 | -10.9 | 102 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.370 | 0.385 | -4.1 | 100 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.434 | 0.399 | 8.1 | 91 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 64 | T | Tetrachloroethene | 0.373 | 0.397 | -6.4 | 106 | 0.00 |
| 65 | PM | Chlorobenzene | 1.038 | 1.088 | -4.8 | 103 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.373 | 0.405 | -8.6 | 103 | 0.00 |
| 67 | C | Ethyl Benzene | 1.784 | 1.939 | -8.7# | 102 | 0.00 |
| 68 | T | m/p-Xylenes | 0.683 | 0.742 | -8.6 | 103 | 0.00 |
| 69 | T | o-Xylene | 0.666 | 0.721 | -8.3 | 102 | 0.00 |
| 70 | T | Styrene | 1.120 | 1.235 | -10.3 | 103 | 0.00 |
| 71 | P | Bromoform | 0.308 | 0.351 | -14.0 | 105 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 97 | 0.00 |
| 73 | T | Isopropylbenzene | 3.507 | 3.684 | -5.0 | 103 | 0.00 |
| 74 | T | N-amyl acetate | 1.607 | 1.657 | -3.1 | 97 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.216 | 1.232 | -1.3 | 99 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.125 | 0.978 | 13.1 | 84 | 0.00 |
| 77 | T | Bromobenzene | 0.948 | 0.972 | -2.5 | 103 | 0.00 |
| 78 | T | n-propylbenzene | 3.915 | 4.230 | -8.0 | 105 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.349 | 2.450 | -4.3 | 104 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.875 | 3.102 | -7.9 | 105 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.411 | 0.423 | -2.9 | 99 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.720 | 2.854 | -4.9 | 104 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.921 | 3.181 | -8.9 | 106 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.917 | 3.114 | -6.8 | 104 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.337 | 3.666 | -9.9 | 107 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.104 | 3.375 | -8.7 | 106 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.652 | 1.738 | -5.2 | 105 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.682 | 1.728 | -2.7 | 106 | 0.00 |
| 89 | T | n-Butylbenzene | 2.648 | 2.948 | -11.3 | 107 | 0.00 |

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ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Dec 06 02:32:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 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) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.561 | 0.612 | -9.1 | 108 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.632 | 1.720 | -5.4 | 105 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.265 | 0.261 | 1.5 | 94 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.137 | 1.197 | -5.3 | 104 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.546 | 0.587 | -7.5 | 114 | 0.00 |
| 95 T | Naphthalene | 3.387 | 3.591 | -6.0 | 100 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.126 | 1.183 | -5.1 | 105 | 0.00 |

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