# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX061218\
Data File : VX002458.D
Acq On : 12 Jun 2018 10:12
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Jun 13 01:31:20 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
Quant Title : SW846 8260
QLast Update : Tue Jun 05 03:22:35 2018
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 | 78 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.520 | 0.514 | 1.2 | 75 | 0.00 |
| 3 | P | Chloromethane | 0.684 | 0.568 | 17.0 | 72 | 0.00 |
| 4 | C | Vinyl Chloride | 0.655 | 0.667 | -1.8# | 81 | 0.00 |
| 5 | T | Bromomethane | 0.521 | 0.375 | 28.0# | 78 | 0.00 |
| 6 | T | Chloroethane | 0.424 | 0.466 | -9.9 | 89 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.998 | 1.143 | -14.5 | 88 | 0.00 |
| 8 | T | Diethyl Ether | 0.407 | 0.407 | 0.0 | 87 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.539 | 0.670 | -24.3# | 93 | 0.00 |
| 10 | T | Methyl Iodide | 0.758 | 0.660 | 12.9 | 66 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.160 | 0.141 | 11.9 | 71 | -0.02 |
| 12 | CM | 1,1-Dichloroethene | 0.532 | 0.562 | -5.6# | 85 | 0.00 |
| 13 | T | Acrolein | 0.077 | 0.065 | 15.6 | 70 | 0.00 |
| 14 | T | Allyl chloride | 1.155 | 1.137 | 1.6 | 82 | 0.00 |
| 15 | T | Acrylonitrile | 0.341 | 0.326 | 4.4 | 81 | 0.00 |
| 16 | T | Acetone | 0.358 | 0.411 | -14.8 | 96 | 0.00 |
| 17 | T | Carbon Disulfide | 1.403 | 1.315 | 6.3 | 75 | 0.00 |
| 18 | T | Methyl Acetate | 0.844 | 0.790 | 6.4 | 82 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.109 | 2.104 | 0.2 | 85 | 0.00 |
| 20 | T | Methylene Chloride | 0.710 | 0.637 | 10.3 | 86 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.587 | 0.604 | -2.9 | 86 | 0.00 |
| 22 | T | Diisopropyl ether | 2.155 | 2.298 | -6.6 | 91 | 0.00 |
| 23 | T | Vinyl Acetate | 1.873 | 1.970 | -5.2 | 89 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.142 | 1.200 | -5.1 | 87 | 0.00 |
| 25 | T | 2-Butanone | 0.490 | 0.462 | 5.7 | 78 | -0.01 |
| 26 | T | 2,2-Dichloropropane | 0.892 | 0.874 | 2.0 | 81 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.638 | 0.608 | 4.7 | 81 | 0.00 |
| 28 | T | Bromochloromethane | 0.553 | 0.483 | 12.7 | 71 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.316 | 0.269 | 14.9 | 71 | 0.00 |
| 30 | C | Chloroform | 1.102 | 1.091 | 1.0# | 83 | 0.00 |
| 31 | T | Cyclohexane | 0.903 | 0.938 | -3.9 | 79 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.934 | 0.955 | -2.2 | 80 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.778 | 0.595 | 23.5# | 63 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 75 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.393 | 0.338 | 14.0 | 66 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.526 | 0.570 | -8.4 | 82 | 0.00 |
| 37 | T | Ethyl Acetate | 0.632 | 0.591 | 6.5 | 73 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.550 | 0.615 | -11.8 | 82 | 0.00 |
| 39 | T | Methylcyclohexane | 0.599 | 0.710 | -18.5 | 83 | 0.00 |
| 40 | TM | Benzene | 1.612 | 1.663 | -3.2 | 80 | 0.00 |
| 41 | T | Methacrylonitrile | 0.362 | 0.347 | 4.1 | 75 | -0.01 |
| 42 | TM | 1,2-Dichloroethane | 0.640 | 0.660 | -3.1 | 81 | 0.00 |
| 43 | T | Isopropyl Acetate | 1.074 | 1.044 | 2.8 | 76 | 0.00 |
| 44 | TM | Trichloroethene | 0.447 | 0.478 | -6.9 | 79 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.435 | 0.447 | -2.8# | 80 | 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: Jun 13 01:31:20 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
Quant Title : SW846 8260
QLast Update : Tue Jun 05 03:22:35 2018
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 | 0.295 | 0.301 | -2.0 | 82 | 0.00 |
| 47 | T | Bromodichloromethane | 0.533 | 0.580 | -8.8 | 82 | 0.00 |
| 48 | T | Methyl methacrylate | 0.539 | 0.531 | 1.5 | 75 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.010 | 0.009 | 10.0 | 69 | 0.00 |
| 50 | S | Toluene-d8 | 1.507 | 1.303 | 13.5 | 65 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.669 | 0.662 | 1.0 | 76 | 0.00 |
| 52 | CM | Toluene | 1.025 | 1.118 | -9.1# | 83 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.640 | 0.688 | -7.5 | 79 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.604 | 0.651 | -7.8 | 79 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.422 | 0.450 | -6.6 | 82 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.673 | 0.689 | -2.4 | 79 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.707 | 0.737 | -4.2 | 81 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.312 | 0.324 | -3.8 | 79 | 0.00 |
| 59 | T | 2-Hexanone | 0.516 | 0.530 | -2.7 | 77 | 0.00 |
| 60 | T | Dibromochloromethane | 0.424 | 0.484 | -14.2 | 82 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.440 | 0.465 | -5.7 | 80 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.581 | 0.510 | 12.2 | 65 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 77 | 0.00 |
| 64 | T | Tetrachloroethene | 0.516 | 0.551 | -6.8 | 81 | 0.00 |
| 65 | PM | Chlorobenzene | 1.244 | 1.320 | -6.1 | 84 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.450 | 0.484 | -7.6 | 83 | 0.00 |
| 67 | C | Ethyl Benzene | 2.082 | 2.288 | -9.9# | 84 | 0.00 |
| 68 | T | m/p-Xylenes | 0.809 | 0.893 | -10.4 | 84 | 0.00 |
| 69 | T | o-Xylene | 0.805 | 0.870 | -8.1 | 84 | 0.00 |
| 70 | T | Styrene | 1.317 | 1.471 | -11.7 | 84 | 0.00 |
| 71 | P | Bromoform | 0.357 | 0.384 | -7.6 | 81 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 84 | 0.00 |
| 73 | T | Isopropylbenzene | 3.478 | 3.539 | -1.8 | 86 | 0.00 |
| 74 | T | N-amyl acetate | 1.874 | 1.548 | 17.4 | 76 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.094 | 0.999 | 8.7 | 84 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.097 | 0.991 | 9.7 | 80 | 0.00 |
| 77 | T | Bromobenzene | 0.976 | 0.942 | 3.5 | 85 | 0.00 |
| 78 | T | n-propylbenzene | 3.866 | 4.120 | -6.6 | 87 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.441 | 2.383 | 2.4 | 86 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.983 | 3.053 | -2.3 | 87 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.313 | 0.284 | 9.3 | 76 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.818 | 2.854 | -1.3 | 86 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.905 | 2.991 | -3.0 | 87 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.071 | 3.139 | -2.2 | 86 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.406 | 3.754 | -10.2 | 89 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.102 | 3.434 | -10.7 | 89 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.746 | 1.785 | -2.2 | 88 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.800 | 1.822 | -1.2 | 89 | 0.00 |
| 89 | T | n-Butylbenzene | 2.602 | 3.126 | -20.1# | 93 | 0.00 |

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Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Jun 13 01:31:20 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
Quant Title : SW846 8260
QLast Update : Tue Jun 05 03:22:35 2018
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 | 0.495 | 0.517 | -4.4 | 86 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.806 | 1.795 | 0.6 | 86 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.239 | 0.214 | 10.5 | 74 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.267 | 1.365 | -7.7 | 90 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.626 | 0.768 | -22.7# | 95 | 0.00 |
| 95 T | Naphthalene | 3.639 | 3.570 | 1.9 | 81 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.292 | 1.356 | -5.0 | 88 | 0.00 |

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