# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081719\
Data File : VW011951.D
Acq On : 16 Aug 2019 08:58
Operator : SY/VA
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_W
**LabSampleId :** VSTDCCC050

Quant Time: Aug 17 05:03:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 27 00:23:30 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 | 95 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.279 | 0.265 | 5.0 | 87 | 0.00 |
| 3 | P | Chloromethane | 0.483 | 0.460 | 4.8 | 93 | 0.00 |
| 4 | C | Vinyl Chloride | 0.582 | 0.598 | -2.7# | 93 | 0.00 |
| 5 | T | Bromomethane | 0.322 | 0.312 | 3.1 | 91 | 0.00 |
| 6 | T | Chloroethane | 0.332 | 0.343 | -3.3 | 93 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.260 | 0.315 | -21.2# | 107 | 0.00 |
| 8 | T | Diethyl Ether | 0.295 | 0.278 | 5.8 | 84 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.493 | 0.529 | -7.3 | 95 | 0.00 |
| 10 | T | Methyl Iodide | 0.697 | 0.720 | -3.3 | 90 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.048 | 0.032 | 33.3# | 71 | -0.01 |
| 12 | CM | 1,1-Dichloroethene | 0.521 | 0.542 | -4.0# | 93 | 0.00 |
| 13 | T | Acrolein | 0.041 | 0.026 | 36.6# | 60 | 0.00 |
| 14 | T | Allyl chloride | 1.108 | 1.181 | -6.6 | 94 | 0.00 |
| 15 | T | Acrylonitrile | 0.147 | 0.137 | 6.8 | 82 | 0.00 |
| 16 | T | Acetone | 0.183 | 0.171 | 6.6 | 84 | 0.00 |
| 17 | T | Carbon Disulfide | 1.630 | 1.622 | 0.5 | 87 | 0.00 |
| 18 | T | Methyl Acetate | 0.410 | 0.353 | 13.9 | 76 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 0.826 | 0.817 | 1.1 | 86 | 0.00 |
| 20 | T | Methylene Chloride | 0.630 | 0.571 | 9.4 | 87 | -0.01 |
| 21 | T | trans-1,2-Dichloroethene | 0.561 | 0.579 | -3.2 | 93 | 0.00 |
| 22 | T | Diisopropyl ether | 2.088 | 2.095 | -0.3 | 89 | 0.00 |
| 23 | T | Vinyl Acetate | 1.312 | 1.280 | 2.4 | 84 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.118 | 1.151 | -3.0 | 92 | 0.00 |
| 25 | T | 2-Butanone | 0.239 | 0.214 | 10.5 | 77 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.688 | 0.673 | 2.2 | 94 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.618 | 0.613 | 0.8 | 89 | 0.00 |
| 28 | T | Bromochloromethane | 0.496 | 0.507 | -2.2 | 100 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.137 | 0.121 | 11.7 | 77 | 0.00 |
| 30 | C | Chloroform | 1.032 | 1.040 | -0.8# | 92 | 0.00 |
| 31 | T | Cyclohexane | 1.073 | 1.061 | 1.1 | 91 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.786 | 0.832 | -5.9 | 94 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.574 | 0.583 | -1.6 | 94 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.281 | 0.312 | -11.0 | 98 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.520 | 0.559 | -7.5 | 93 | 0.00 |
| 37 | T | Ethyl Acetate | 0.299 | 0.273 | 8.7 | 77 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.445 | 0.492 | -10.6 | 95 | 0.00 |
| 39 | T | Methylcyclohexane | 0.572 | 0.622 | -8.7 | 93 | 0.00 |
| 40 | TM | Benzene | 1.456 | 1.512 | -3.8 | 91 | 0.00 |
| 41 | T | Methacrylonitrile | 0.179 | 0.176 | 1.7 | 86 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.456 | 0.455 | 0.2 | 86 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.550 | 0.521 | 5.3 | 80 | 0.00 |
| 44 | TM | Trichloroethene | 0.350 | 0.372 | -6.3 | 92 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.390 | 0.402 | -3.1# | 89 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081719\
Data File : VW011951.D
Acq On : 16 Aug 2019 08:58
Operator : SY/VA
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_W
**LabSampleId :** VSTDCCC050

Quant Time: Aug 17 05:03:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 27 00:23:30 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 | 0.178 | 0.177 | 0.6 | 85 | 0.00 |
| 47 | T | Bromodichloromethane | 0.467 | 0.481 | -3.0 | 88 | 0.00 |
| 48 | T | Methyl methacrylate | 0.264 | 0.257 | 2.7 | 81 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.003 | 0.002 | 33.3# | 77 | 0.00 |
| 50 | S | Toluene-d8 | 1.148 | 1.276 | -11.1 | 98 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.286 | 0.264 | 7.7 | 77 | 0.00 |
| 52 | CM | Toluene | 0.879 | 0.922 | -4.9# | 91 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.487 | 0.492 | -1.0 | 85 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.579 | 0.599 | -3.5 | 87 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.252 | 0.246 | 2.4 | 84 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.369 | 0.359 | 2.7 | 80 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.477 | 0.467 | 2.1 | 83 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.168 | 0.191 | -13.7 | 94 | 0.00 |
| 59 | T | 2-Hexanone | 0.202 | 0.198 | 2.0 | 79 | 0.00 |
| 60 | T | Dibromochloromethane | 0.280 | 0.285 | -1.8 | 86 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.239 | 0.232 | 2.9 | 83 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.409 | 0.441 | -7.8 | 95 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 89 | 0.00 |
| 64 | T | Tetrachloroethene | 0.326 | 0.349 | -7.1 | 92 | 0.00 |
| 65 | PM | Chlorobenzene | 1.005 | 1.057 | -5.2 | 89 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.350 | 0.370 | -5.7 | 87 | 0.00 |
| 67 | C | Ethyl Benzene | 1.915 | 2.084 | -8.8# | 90 | 0.00 |
| 68 | T | m/p-Xylenes | 0.696 | 0.759 | -9.1 | 91 | 0.00 |
| 69 | T | o-Xylene | 0.647 | 0.697 | -7.7 | 88 | 0.00 |
| 70 | T | Styrene | 1.119 | 1.216 | -8.7 | 89 | 0.00 |
| 71 | P | Bromoform | 0.179 | 0.184 | -2.8 | 82 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 89 | 0.00 |
| 73 | T | Isopropylbenzene | 3.730 | 4.126 | -10.6 | 91 | 0.00 |
| 74 | T | N-amyl acetate | 1.168 | 1.163 | 0.4 | 78 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.702 | 0.694 | 1.1 | 80 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.529 | 0.467 | 11.7 | 77 | 0.00 |
| 77 | T | Bromobenzene | 0.824 | 0.867 | -5.2 | 86 | 0.00 |
| 78 | T | n-propylbenzene | 4.540 | 5.058 | -11.4 | 92 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.615 | 2.801 | -7.1 | 89 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.127 | 3.453 | -10.4 | 90 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.230 | 0.237 | -3.0 | 81 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.744 | 2.957 | -7.8 | 89 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.615 | 2.937 | -12.3 | 92 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.150 | 3.412 | -8.3 | 89 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.731 | 4.159 | -11.5 | 91 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.385 | 3.755 | -10.9 | 91 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.617 | 1.695 | -4.8 | 87 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.608 | 1.669 | -3.8 | 87 | 0.00 |
| 89 | T | n-Butylbenzene | 3.378 | 3.778 | -11.8 | 92 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081719\
Data File : VW011951.D
Acq On : 16 Aug 2019 08:58
Operator : SY/VA
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_W
**LabSampleId :** VSTDCCC050

Quant Time: Aug 17 05:03:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 27 00:23:30 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 | 0.599 | 0.663 | -10.7 | 90 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.430 | 1.476 | -3.2 | 86 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.120 | 0.114 | 5.0 | 75 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.008 | 1.066 | -5.8 | 86 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.628 | 0.699 | -11.3 | 92 | 0.00 |
| 95 T | Naphthalene | 1.787 | 1.861 | -4.1 | 79 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.883 | 0.926 | -4.9 | 85 | 0.00 |

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