# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW110218\
Data File : VW006549.D
Acq On : 01 Nov 2018 02:56
Operator : SY/AP
Sample : VSTDICV050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** ICVVW110218

Quant Time: Nov 01 04:00:53 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W110218S.M
Quant Title : SW846 8260
QLast Update : Thu Nov 01 03:48:08 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 | 93 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.259 | 0.245 | 5.4 | 96 | -0.01 |
| 3 | P | Chloromethane | 0.321 | 0.314 | 2.2 | 100 | 0.00 |
| 4 | C | Vinyl Chloride | 0.448 | 0.433 | 3.3# | 95 | 0.00 |
| 5 | T | Bromomethane | 0.376 | 0.354 | 5.9 | 92 | 0.00 |
| 6 | T | Chloroethane | 0.313 | 0.293 | 6.4 | 92 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.395 | 0.392 | 0.8 | 97 | 0.00 |
| 8 | T | Diethyl Ether | 0.216 | 0.210 | 2.8 | 96 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.422 | 0.418 | 0.9 | 95 | 0.00 |
| 10 | T | Methyl Iodide | 0.766 | 0.727 | 5.1 | 92 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.023 | 0.025 | -8.7 | 108 | -0.03 |
| 12 | CM | 1,1-Dichloroethene | 0.408 | 0.399 | 2.2# | 95 | 0.00 |
| 13 | T | Acrolein | 0.029 | 0.030 | -3.4 | 101 | 0.00 |
| 14 | T | Allyl chloride | 0.532 | 0.524 | 1.5 | 94 | 0.00 |
| 15 | T | Acrylonitrile | 0.078 | 0.082 | -5.1 | 103 | 0.00 |
| 16 | T | Acetone | 0.069 | 0.070 | -1.4 | 99 | -0.01 |
| 17 | T | Carbon Disulfide | 1.161 | 1.176 | -1.3 | 97 | 0.00 |
| 18 | T | Methyl Acetate | 0.200 | 0.206 | -3.0 | 102 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 0.607 | 0.608 | -0.2 | 97 | 0.00 |
| 20 | T | Methylene Chloride | 0.540 | 0.430 | 20.4# | 88 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.461 | 0.457 | 0.9 | 96 | 0.00 |
| 22 | T | Diisopropyl ether | 1.110 | 1.084 | 2.3 | 93 | 0.00 |
| 23 | T | Vinyl Acetate | 0.615 | 0.647 | -5.2 | 99 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.752 | 0.727 | 3.3 | 93 | 0.00 |
| 25 | T | 2-Butanone | 0.099 | 0.105 | -6.1 | 103 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.453 | 0.438 | 3.3 | 96 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.516 | 0.506 | 1.9 | 94 | 0.00 |
| 28 | T | Bromochloromethane | 0.299 | 0.295 | 1.3 | 93 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.062 | 0.067 | -8.1 | 103 | 0.00 |
| 30 | C | Chloroform | 0.825 | 0.801 | 2.9# | 93 | 0.00 |
| 31 | T | Cyclohexane | 0.685 | 0.644 | 6.0 | 97 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.698 | 0.690 | 1.1 | 95 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.430 | 0.431 | -0.2 | 93 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.314 | 0.312 | 0.6 | 92 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.440 | 0.433 | 1.6 | 95 | 0.00 |
| 37 | T | Ethyl Acetate | 0.152 | 0.166 | -9.2 | 107 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.459 | 0.463 | -0.9 | 97 | 0.00 |
| 39 | T | Methylcyclohexane | 0.558 | 0.568 | -1.8 | 98 | 0.00 |
| 40 | TM | Benzene | 1.249 | 1.224 | 2.0 | 94 | 0.00 |
| 41 | T | Methacrylonitrile | 0.093 | 0.106 | -14.0 | 111 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.358 | 0.354 | 1.1 | 95 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.304 | 0.331 | -8.9 | 106 | 0.00 |
| 44 | TM | Trichloroethene | 0.385 | 0.381 | 1.0 | 94 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.291 | 0.284 | 2.4# | 93 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW110218\
Data File : VW006549.D
Acq On : 01 Nov 2018 02:56
Operator : SY/AP
Sample : VSTDICV050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** ICVVW110218

Quant Time: Nov 01 04:00:53 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W110218S.M
Quant Title : SW846 8260
QLast Update : Thu Nov 01 03:48:08 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 | 0.171 | 0.171 | 0.0 | 96 | 0.00 |
| 47 | T | Bromodichloromethane | 0.397 | 0.400 | -0.8 | 94 | 0.00 |
| 48 | T | Methyl methacrylate | 0.146 | 0.162 | -11.0 | 103 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.003 | 0.003 | 0.0 | 96 | -0.01 |
| 50 | S | Toluene-d8 | 1.195 | 1.199 | -0.3 | 92 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.156 | 0.172 | -10.3 | 105 | 0.00 |
| 52 | CM | Toluene | 0.838 | 0.821 | 2.0# | 94 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.382 | 0.399 | -4.5 | 96 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.451 | 0.453 | -0.4 | 94 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.242 | 0.244 | -0.8 | 97 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.276 | 0.300 | -8.7 | 101 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.394 | 0.398 | -1.0 | 97 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.134 | 0.140 | -4.5 | 102 | 0.00 |
| 59 | T | 2-Hexanone | 0.106 | 0.118 | -11.3 | 106 | 0.00 |
| 60 | T | Dibromochloromethane | 0.287 | 0.303 | -5.6 | 97 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.241 | 0.246 | -2.1 | 97 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.433 | 0.437 | -0.9 | 92 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 64 | T | Tetrachloroethene | 0.399 | 0.396 | 0.8 | 94 | 0.00 |
| 65 | PM | Chlorobenzene | 1.052 | 1.026 | 2.5 | 92 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.370 | 0.367 | 0.8 | 92 | 0.00 |
| 67 | C | Ethyl Benzene | 1.759 | 1.744 | 0.9# | 93 | 0.00 |
| 68 | T | m/p-Xylenes | 0.703 | 0.698 | 0.7 | 92 | 0.00 |
| 69 | T | o-Xylene | 0.669 | 0.666 | 0.4 | 92 | 0.00 |
| 70 | T | Styrene | 1.091 | 1.095 | -0.4 | 91 | 0.00 |
| 71 | P | Bromoform | 0.196 | 0.212 | -8.2 | 98 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 73 | T | Isopropylbenzene | 3.294 | 3.274 | 0.6 | 93 | 0.00 |
| 74 | T | N-amyl acetate | 0.569 | 0.614 | -7.9 | 101 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.520 | 0.550 | -5.8 | 101 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.390 | 0.421 | -7.9 | 101 | 0.00 |
| 77 | T | Bromobenzene | 0.853 | 0.834 | 2.2 | 92 | 0.00 |
| 78 | T | n-propylbenzene | 3.789 | 3.767 | 0.6 | 93 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.174 | 2.129 | 2.1 | 92 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.767 | 2.751 | 0.6 | 92 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.134 | 0.149 | -11.2 | 99 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.300 | 2.256 | 1.9 | 92 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.468 | 2.470 | -0.1 | 93 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.838 | 2.800 | 1.3 | 91 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.456 | 3.467 | -0.3 | 93 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.145 | 3.122 | 0.7 | 92 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.679 | 1.643 | 2.1 | 92 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.665 | 1.626 | 2.3 | 92 | 0.00 |
| 89 | T | n-Butylbenzene | 2.792 | 2.784 | 0.3 | 92 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW110218\
Data File : VW006549.D
Acq On : 01 Nov 2018 02:56
Operator : SY/AP
Sample : VSTDICV050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** ICVVW110218

Quant Time: Nov 01 04:00:53 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W110218S.M
Quant Title : SW846 8260
QLast Update : Thu Nov 01 03:48:08 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 | 0.517 | 0.533 | -3.1 | 92 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.511 | 1.470 | 2.7 | 92 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.084 | 0.091 | -8.3 | 104 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.123 | 1.105 | 1.6 | 92 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.700 | 0.675 | 3.6 | 92 | 0.00 |
| 95 T | Naphthalene | 1.805 | 1.986 | -10.0 | 100 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.987 | 0.991 | -0.4 | 94 | 0.00 |

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