# Evaluate Continuing Calibration Report

Data Path : W:\HPCHEM1\MSVOA_X\Data\VX053018\
Data File : VX002158.D
Acq On : 31 May 2018 01:17
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

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

Quant Time: May 31 06:44:25 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
Quant Title : SW846 8260
QLast Update : Thu May 24 13:09:03 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 | 53 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.715 | 0.503 | 29.7# | 41# | 0.00 |
| 3 | P | Chloromethane | 0.769 | 0.755 | 1.8 | 54 | 0.00 |
| 4 | C | Vinyl Chloride | 0.743 | 0.747 | -0.5# | 56 | 0.00 |
| 5 | T | Bromomethane | 0.397 | 0.384 | 3.3 | 60 | 0.00 |
| 6 | T | Chloroethane | 0.438 | 0.503 | -14.8 | 64 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.116 | 1.162 | -4.1 | 58 | 0.00 |
| 8 | T | Diethyl Ether | 0.405 | 0.515 | -27.2# | 70 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.622 | 0.649 | -4.3 | 59 | 0.00 |
| 10 | T | Methyl Iodide | 0.842 | 0.705 | 16.3 | 41# | 0.00 |
| 11 | T | Tert butyl alcohol | 0.175 | 0.259 | -48.0# | 80 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.583 | 0.626 | -7.4# | 61 | 0.00 |
| 13 | T | Acrolein | 0.076 | 0.077 | -1.3 | 60 | 0.00 |
| 14 | T | Allyl chloride | 1.223 | 1.454 | -18.9 | 65 | 0.00 |
| 15 | T | Acrylonitrile | 0.361 | 0.525 | -45.4# | 79 | 0.00 |
| 16 | T | Acetone | 0.345 | 0.506 | -46.7# | 81 | 0.00 |
| 17 | T | Carbon Disulfide | 1.677 | 1.491 | 11.1 | 49# | 0.00 |
| 18 | T | Methyl Acetate | 0.932 | 1.300 | -39.5# | 81 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.192 | 2.759 | -25.9# | 69 | 0.00 |
| 20 | T | Methylene Chloride | 0.676 | 0.813 | -20.3# | 70 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.625 | 0.695 | -11.2 | 63 | 0.00 |
| 22 | T | Diisopropyl ether | 2.488 | 2.689 | -8.1 | 58 | 0.00 |
| 23 | T | Vinyl Acetate | 2.063 | 2.406 | -16.6 | 63 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.182 | 1.297 | -9.7 | 60 | 0.00 |
| 25 | T | 2-Butanone | 0.632 | 0.743 | -17.6 | 63 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.196 | 0.844 | 29.4# | 40# | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.760 | 0.766 | -0.8 | 55 | 0.00 |
| 28 | T | Bromochloromethane | 0.484 | 0.658 | -36.0# | 67 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.411 | 0.488 | -18.7 | 64 | -0.01 |
| 30 | C | Chloroform | 1.332 | 1.386 | -4.1# | 58 | 0.00 |
| 31 | T | Cyclohexane | 1.232 | 1.076 | 12.7 | 49# | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.242 | 1.152 | 7.2 | 51 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.894 | 0.839 | 6.2 | 51 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 57 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.500 | 0.420 | 16.0 | 49# | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.695 | 0.606 | 12.8 | 52 | 0.00 |
| 37 | T | Ethyl Acetate | 0.907 | 0.940 | -3.6 | 61 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.811 | 0.652 | 19.6 | 48# | 0.00 |
| 39 | T | Methylcyclohexane | 0.854 | 0.705 | 17.4 | 50# | 0.00 |
| 40 | TM | Benzene | 2.038 | 1.993 | 2.2 | 58 | 0.00 |
| 41 | T | Methacrylonitrile | 0.552 | 0.534 | 3.3 | 62 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.814 | 0.810 | 0.5 | 60 | 0.00 |
| 43 | T | Isopropyl Acetate | 1.511 | 1.535 | -1.6 | 60 | 0.00 |
| 44 | TM | Trichloroethene | 0.594 | 0.549 | 7.6 | 55 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.553 | 0.547 | 1.1# | 59 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : W:\HPCHEM1\MSVOA_X\Data\VX053018\
Data File : VX002158.D
Acq On : 31 May 2018 01:17
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

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

Quant Time: May 31 06:44:25 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
Quant Title : SW846 8260
QLast Update : Thu May 24 13:09:03 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 | 0.366 | 0.362 | 1.1 | 58 | 0.00 |
| 47 | T | Bromodichloromethane | 0.781 | 0.683 | 12.5 | 52 | 0.00 |
| 48 | T | Methyl methacrylate | 0.769 | 0.787 | -2.3 | 60 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.014 | 0.016 | -14.3 | 69 | 0.00 |
| 50 | S | Toluene-d8 | 1.810 | 1.529 | 15.5 | 49# | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.911 | 1.021 | -12.1 | 65 | 0.00 |
| 52 | CM | Toluene | 1.297 | 1.260 | 2.9# | 58 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.900 | 0.797 | 11.4 | 52 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.877 | 0.762 | 13.1 | 51 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.542 | 0.548 | -1.1 | 61 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.932 | 0.919 | 1.4 | 60 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.892 | 0.910 | -2.0 | 61 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.413 | 0.407 | 1.5 | 59 | 0.00 |
| 59 | T | 2-Hexanone | 0.702 | 0.802 | -14.2 | 66 | 0.00 |
| 60 | T | Dibromochloromethane | 0.642 | 0.569 | 11.4 | 52 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.568 | 0.587 | -3.3 | 61 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.708 | 0.609 | 14.0 | 50# | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 59 | 0.00 |
| 64 | T | Tetrachloroethene | 0.717 | 0.666 | 7.1 | 57 | 0.00 |
| 65 | PM | Chlorobenzene | 1.584 | 1.509 | 4.7 | 59 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.640 | 0.583 | 8.9 | 57 | 0.00 |
| 67 | C | Ethyl Benzene | 2.752 | 2.586 | 6.0# | 57 | 0.00 |
| 68 | T | m/p-Xylenes | 1.052 | 0.997 | 5.2 | 58 | 0.00 |
| 69 | T | o-Xylene | 1.051 | 1.010 | 3.9 | 59 | 0.00 |
| 70 | T | Styrene | 1.742 | 1.683 | 3.4 | 59 | 0.00 |
| 71 | P | Bromoform | 0.607 | 0.487 | 19.8 | 48# | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 58 | 0.00 |
| 73 | T | Isopropylbenzene | 4.234 | 3.950 | 6.7 | 56 | 0.00 |
| 74 | T | N-amyl acetate | 2.508 | 2.459 | 2.0 | 60 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.296 | 1.326 | -2.3 | 65 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.201 | 1.411 | -17.5 | 73 | 0.00 |
| 77 | T | Bromobenzene | 1.123 | 1.117 | 0.5 | 60 | 0.00 |
| 78 | T | n-propylbenzene | 4.742 | 4.373 | 7.8 | 55 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.938 | 2.765 | 5.9 | 58 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.618 | 3.411 | 5.7 | 57 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.500 | 0.385 | 23.0# | 48# | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.345 | 3.195 | 4.5 | 57 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.551 | 3.243 | 8.7 | 56 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.739 | 3.548 | 5.1 | 58 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.268 | 3.889 | 8.9 | 55 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.819 | 3.484 | 8.8 | 55 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 2.012 | 1.929 | 4.1 | 58 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 2.011 | 1.957 | 2.7 | 58 | 0.00 |
| 89 | T | n-Butylbenzene | 3.236 | 2.854 | 11.8 | 51 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : W:\HPCHEM1\MSVOA_X\Data\VX053018\
Data File : VX002158.D
Acq On : 31 May 2018 01:17
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

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

Quant Time: May 31 06:44:25 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
Quant Title : SW846 8260
QLast Update : Thu May 24 13:09:03 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 | 0.753 | 0.557 | 26.0# | 45# | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 2.050 | 2.034 | 0.8 | 60 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.376 | 0.341 | 9.3 | 55 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.466 | 1.360 | 7.2 | 54 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.788 | 0.646 | 18.0 | 48# | 0.00 |
| 95 T | Naphthalene | 4.516 | 4.585 | -1.5 | 60 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.517 | 1.424 | 6.1 | 55 | 0.00 |

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