# Evaluate Continuing Calibration Report

Data Path : W:\HPCHEM1\MSVOA_X\Data\VX060218\
Data File : VX002235.D
Acq On : 02 Jun 2018 11:42
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 04 05:21:42 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 | 63 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.715 | 0.454 | 36.5# | 44# | 0.00 |
| 3 | P | Chloromethane | 0.769 | 0.623 | 19.0 | 53 | 0.00 |
| 4 | C | Vinyl Chloride | 0.743 | 0.651 | 12.4# | 57 | 0.00 |
| 5 | T | Bromomethane | 0.397 | 0.430 | -8.3 | 78 | 0.00 |
| 6 | T | Chloroethane | 0.438 | 0.444 | -1.4 | 66 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.116 | 1.091 | 2.2 | 64 | 0.00 |
| 8 | T | Diethyl Ether | 0.405 | 0.492 | -21.5# | 78 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.622 | 0.636 | -2.3 | 68 | 0.00 |
| 10 | T | Methyl Iodide | 0.842 | 0.754 | 10.5 | 52 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.175 | 0.200 | -14.3 | 72 | -0.02 |
| 12 | CM | 1,1-Dichloroethene | 0.583 | 0.564 | 3.3# | 64 | 0.00 |
| 13 | T | Acrolein | 0.076 | 0.067 | 11.8 | 61 | 0.00 |
| 14 | T | Allyl chloride | 1.223 | 1.324 | -8.3 | 70 | 0.00 |
| 15 | T | Acrylonitrile | 0.361 | 0.433 | -19.9 | 76 | 0.00 |
| 16 | T | Acetone | 0.345 | 0.459 | -33.0# | 87 | 0.00 |
| 17 | T | Carbon Disulfide | 1.677 | 1.252 | 25.3# | 49# | 0.00 |
| 18 | T | Methyl Acetate | 0.932 | 1.103 | -18.3 | 81 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.192 | 2.614 | -19.3 | 77 | -0.01 |
| 20 | T | Methylene Chloride | 0.676 | 0.751 | -11.1 | 76 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.625 | 0.638 | -2.1 | 68 | 0.00 |
| 22 | T | Diisopropyl ether | 2.488 | 2.755 | -10.7 | 69 | 0.00 |
| 23 | T | Vinyl Acetate | 2.063 | 2.441 | -18.3 | 76 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.182 | 1.354 | -14.6 | 74 | 0.00 |
| 25 | T | 2-Butanone | 0.632 | 0.602 | 4.7 | 60 | -0.02 |
| 26 | T | 2,2-Dichloropropane | 1.196 | 1.000 | 16.4 | 55 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.760 | 0.720 | 5.3 | 61 | 0.00 |
| 28 | T | Bromochloromethane | 0.484 | 0.633 | -30.8# | 76 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.411 | 0.379 | 7.8 | 59 | -0.02 |
| 30 | C | Chloroform | 1.332 | 1.306 | 2.0# | 65 | 0.00 |
| 31 | T | Cyclohexane | 1.232 | 0.970 | 21.3# | 52 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.242 | 1.058 | 14.8 | 55 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.894 | 0.961 | -7.5 | 69 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 64 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.500 | 0.503 | -0.6 | 66 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.695 | 0.593 | 14.7 | 57 | 0.00 |
| 37 | T | Ethyl Acetate | 0.907 | 0.810 | 10.7 | 59 | -0.01 |
| 38 | T | Carbon Tetrachloride | 0.811 | 0.635 | 21.7# | 52 | 0.00 |
| 39 | T | Methylcyclohexane | 0.854 | 0.712 | 16.6 | 56 | 0.00 |
| 40 | TM | Benzene | 2.038 | 1.930 | 5.3 | 62 | 0.00 |
| 41 | T | Methacrylonitrile | 0.552 | 0.470 | 14.9 | 61 | -0.01 |
| 42 | TM | 1,2-Dichloroethane | 0.814 | 0.804 | 1.2 | 66 | 0.00 |
| 43 | T | Isopropyl Acetate | 1.511 | 1.391 | 7.9 | 60 | -0.01 |
| 44 | TM | Trichloroethene | 0.594 | 0.541 | 8.9 | 61 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.553 | 0.541 | 2.2# | 66 | 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 04 05:21:42 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 | 0.369 | -0.8 | 66 | 0.00 |
| 47 | T | Bromodichloromethane | 0.781 | 0.684 | 12.4 | 58 | 0.00 |
| 48 | T | Methyl methacrylate | 0.769 | 0.708 | 7.9 | 61 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.014 | 0.013 | 7.1 | 60 | 0.00 |
| 50 | S | Toluene-d8 | 1.810 | 1.908 | -5.4 | 68 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.911 | 0.894 | 1.9 | 64 | 0.00 |
| 52 | CM | Toluene | 1.297 | 1.248 | 3.8# | 64 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.900 | 0.843 | 6.3 | 61 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.877 | 0.806 | 8.1 | 60 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.542 | 0.560 | -3.3 | 70 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.932 | 0.885 | 5.0 | 64 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.892 | 0.924 | -3.6 | 69 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.413 | 0.397 | 3.9 | 64 | 0.00 |
| 59 | T | 2-Hexanone | 0.702 | 0.696 | 0.9 | 64 | 0.00 |
| 60 | T | Dibromochloromethane | 0.642 | 0.583 | 9.2 | 60 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.568 | 0.581 | -2.3 | 68 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.708 | 0.759 | -7.2 | 69 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 68 | 0.00 |
| 64 | T | Tetrachloroethene | 0.717 | 0.627 | 12.6 | 62 | 0.00 |
| 65 | PM | Chlorobenzene | 1.584 | 1.523 | 3.9 | 68 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.640 | 0.576 | 10.0 | 64 | 0.00 |
| 67 | C | Ethyl Benzene | 2.752 | 2.540 | 7.7# | 64 | 0.00 |
| 68 | T | m/p-Xylenes | 1.052 | 0.994 | 5.5 | 66 | 0.00 |
| 69 | T | o-Xylene | 1.051 | 0.993 | 5.5 | 67 | 0.00 |
| 70 | T | Styrene | 1.742 | 1.677 | 3.7 | 67 | 0.00 |
| 71 | P | Bromoform | 0.607 | 0.477 | 21.4# | 54 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 70 | 0.00 |
| 73 | T | Isopropylbenzene | 4.234 | 3.727 | 12.0 | 65 | 0.00 |
| 74 | T | N-amyl acetate | 2.508 | 2.032 | 19.0 | 60 | -0.01 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.296 | 1.199 | 7.5 | 72 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.201 | 1.266 | -5.4 | 81 | 0.00 |
| 77 | T | Bromobenzene | 1.123 | 1.060 | 5.6 | 70 | 0.00 |
| 78 | T | n-propylbenzene | 4.742 | 4.233 | 10.7 | 65 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.938 | 2.608 | 11.2 | 67 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.618 | 3.231 | 10.7 | 66 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.500 | 0.368 | 26.4# | 56 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.345 | 3.113 | 6.9 | 69 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.551 | 3.101 | 12.7 | 65 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.739 | 3.388 | 9.4 | 68 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.268 | 3.767 | 11.7 | 65 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.819 | 3.475 | 9.0 | 67 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 2.012 | 1.913 | 4.9 | 70 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 2.011 | 1.962 | 2.4 | 72 | 0.00 |
| 89 | T | n-Butylbenzene | 3.236 | 2.977 | 8.0 | 66 | 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 04 05:21:42 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 | 0.539 | 28.4# | 53 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 2.050 | 2.001 | 2.4 | 72 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.376 | 0.274 | 27.1# | 54 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.466 | 1.453 | 0.9 | 71 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.788 | 0.697 | 11.5 | 64 | 0.00 |
| 95 T | Naphthalene | 4.516 | 4.296 | 4.9 | 69 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.517 | 1.491 | 1.7 | 71 | 0.00 |

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