# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081319\
Data File : VX011550.D
Acq On : 13 Aug 2019 20:45
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

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

Quant Time: Aug 14 03:12:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 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 | 103 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.386 | 0.347 | 10.1 | 94 | 0.00 |
| 3 | P | Chloromethane | 0.434 | 0.368 | 15.2 | 90 | 0.00 |
| 4 | C | Vinyl Chloride | 0.477 | 0.401 | 15.9# | 87 | 0.00 |
| 5 | T | Bromomethane | 0.340 | 0.323 | 5.0 | 100 | 0.00 |
| 6 | T | Chloroethane | 0.335 | 0.236 | 29.6# | 77 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.848 | 0.621 | 26.8# | 74 | 0.00 |
| 8 | T | Diethyl Ether | 0.303 | 0.232 | 23.4# | 82 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.459 | 0.442 | 3.7 | 100 | 0.00 |
| 10 | T | Methyl Iodide | 0.579 | 0.542 | 6.4 | 88 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.106 | 0.110 | -3.8 | 110 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.455 | 0.425 | 6.6# | 98 | 0.00 |
| 13 | T | Acrolein | 0.066 | 0.047 | 28.8# | 79 | 0.00 |
| 14 | T | Allyl chloride | 0.606 | 0.661 | -9.1 | 107 | 0.00 |
| 15 | T | Acrylonitrile | 0.240 | 0.265 | -10.4 | 110 | 0.00 |
| 16 | T | Acetone | 0.240 | 0.229 | 4.6 | 100 | 0.00 |
| 17 | T | Carbon Disulfide | 1.068 | 0.882 | 17.4 | 83 | 0.00 |
| 18 | T | Methyl Acetate | 0.548 | 0.643 | -17.3 | 123 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.341 | 1.510 | -12.6 | 113 | 0.00 |
| 20 | T | Methylene Chloride | 0.525 | 0.499 | 5.0 | 102 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.481 | 0.462 | 4.0 | 97 | 0.00 |
| 22 | T | Diisopropyl ether | 1.333 | 1.471 | -10.4 | 114 | 0.00 |
| 23 | T | Vinyl Acetate | 1.106 | 1.260 | -13.9 | 109 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.786 | 0.829 | -5.5 | 109 | 0.00 |
| 25 | T | 2-Butanone | 0.341 | 0.374 | -9.7 | 110 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.611 | 0.608 | 0.5 | 99 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.554 | 0.552 | 0.4 | 104 | 0.00 |
| 28 | T | Bromochloromethane | 0.358 | 0.369 | -3.1 | 111 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.209 | 0.232 | -11.0 | 110 | 0.00 |
| 30 | C | Chloroform | 0.854 | 0.937 | -9.7# | 114 | 0.00 |
| 31 | T | Cyclohexane | 0.648 | 0.622 | 4.0 | 97 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.732 | 0.819 | -11.9 | 113 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.504 | 0.597 | -18.5 | 129 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 107 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.326 | 0.338 | -3.7 | 115 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.437 | 0.416 | 4.8 | 103 | 0.00 |
| 37 | T | Ethyl Acetate | 0.438 | 0.459 | -4.8 | 113 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.439 | 0.472 | -7.5 | 111 | 0.00 |
| 39 | T | Methylcyclohexane | 0.517 | 0.453 | 12.4 | 95 | 0.00 |
| 40 | TM | Benzene | 1.303 | 1.281 | 1.7 | 103 | 0.00 |
| 41 | T | Methacrylonitrile | 0.239 | 0.262 | -9.6 | 116 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.441 | 0.494 | -12.0 | 122 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.700 | 0.754 | -7.7 | 115 | 0.00 |
| 44 | TM | Trichloroethene | 0.394 | 0.361 | 8.4 | 98 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.337 | 0.334 | 0.9# | 107 | 0.00 |

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Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 28 Sample Multiplier: 1

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

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 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 | 0.246 | 0.244 | 0.8 | 108 | 0.00 |
| 47 | T | Bromodichloromethane | 0.417 | 0.458 | -9.8 | 114 | 0.00 |
| 48 | T | Methyl methacrylate | 0.329 | 0.375 | -14.0 | 119 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.010 | 0.009 | 10.0 | 95 | 0.00 |
| 50 | S | Toluene-d8 | 1.232 | 1.238 | -0.5 | 112 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.452 | 0.505 | -11.7 | 114 | 0.00 |
| 52 | CM | Toluene | 0.861 | 0.854 | 0.8# | 104 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.423 | 0.481 | -13.7 | 111 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.487 | 0.522 | -7.2 | 106 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.354 | 0.364 | -2.8 | 108 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.505 | 0.558 | -10.5 | 113 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.560 | 0.578 | -3.2 | 111 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.248 | 0.259 | -4.4 | 109 | 0.00 |
| 59 | T | 2-Hexanone | 0.350 | 0.388 | -10.9 | 110 | 0.00 |
| 60 | T | Dibromochloromethane | 0.363 | 0.399 | -9.9 | 111 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.383 | 0.401 | -4.7 | 110 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.440 | 0.471 | -7.0 | 117 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 110 | 0.00 |
| 64 | T | Tetrachloroethene | 0.425 | 0.350 | 17.6 | 93 | 0.00 |
| 65 | PM | Chlorobenzene | 1.072 | 1.034 | 3.5 | 106 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.367 | 0.402 | -9.5 | 113 | 0.00 |
| 67 | C | Ethyl Benzene | 1.795 | 1.799 | -0.2# | 107 | 0.00 |
| 68 | T | m/p-Xylenes | 0.694 | 0.683 | 1.6 | 103 | 0.00 |
| 69 | T | o-Xylene | 0.682 | 0.674 | 1.2 | 106 | 0.00 |
| 70 | T | Styrene | 1.129 | 1.151 | -1.9 | 104 | 0.00 |
| 71 | P | Bromoform | 0.285 | 0.318 | -11.6 | 109 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 106 | 0.00 |
| 73 | T | Isopropylbenzene | 3.420 | 3.484 | -1.9 | 107 | 0.00 |
| 74 | T | N-amyl acetate | 1.236 | 1.372 | -11.0 | 108 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.140 | 1.161 | -1.8 | 107 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.911 | 0.986 | -8.2 | 111 | 0.00 |
| 77 | T | Bromobenzene | 0.948 | 0.935 | 1.4 | 104 | 0.00 |
| 78 | T | n-propylbenzene | 3.803 | 3.813 | -0.3 | 104 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.267 | 2.306 | -1.7 | 108 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.863 | 2.885 | -0.8 | 105 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.312 | 0.315 | -1.0 | 100 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.642 | 2.691 | -1.9 | 107 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.808 | 2.920 | -4.0 | 107 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.850 | 2.938 | -3.1 | 104 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.373 | 3.351 | 0.7 | 103 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.103 | 3.119 | -0.5 | 103 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.675 | 1.623 | 3.1 | 101 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.728 | 1.612 | 6.7 | 99 | 0.00 |
| 89 | T | n-Butylbenzene | 2.674 | 2.592 | 3.1 | 98 | 0.00 |

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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 | 0.459 | 0.500 | -8.9 | 106 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.683 | 1.622 | 3.6 | 100 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.221 | 0.256 | -15.8 | 115 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.116 | 1.075 | 3.7 | 98 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.566 | 0.532 | 6.0 | 98 | 0.00 |
| 95 T | Naphthalene | 3.265 | 3.363 | -3.0 | 101 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.135 | 1.082 | 4.7 | 98 | 0.00 |

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