# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU082819\
Data File : VU033996.D
Acq On : 28 Aug 2019 01:28
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** MSVOA_U
**LabSampleId :** VSTDCCC050

Quant Time: Aug 28 05:10:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082819W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 28 02:42:03 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 | 108 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.503 | 0.567 | -12.7 | 124 | 0.00 |
| 3 | P | Chloromethane | 0.606 | 0.756 | -24.8# | 180# | 0.00 |
| 4 | C | Vinyl Chloride | 0.502 | 0.739 | -47.2# | 170# | 0.00 |
| 5 | T | Bromomethane | 0.305 | 0.327 | -7.2 | 119 | -0.03 |
| 6 | T | Chloroethane | 0.299 | 0.319 | -6.7 | 125 | -0.01 |
| 7 | T | Trichlorofluoromethane | 0.661 | 0.643 | 2.7 | 108 | 0.00 |
| 8 | T | Diethyl Ether | 0.251 | 0.275 | -9.6 | 122 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.422 | 0.457 | -8.3 | 115 | 0.00 |
| 10 | T | Methyl Iodide | 0.632 | 0.725 | -14.7 | 121 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.144 | 0.162 | -12.5 | 129 | -0.06 |
| 12 | CM | 1,1-Dichloroethene | 0.440 | 0.480 | -9.1# | 120 | 0.00 |
| 13 | T | Acrolein | 0.046 | 0.050 | -8.7 | 128 | 0.00 |
| 14 | T | Allyl chloride | 0.780 | 1.013 | -29.9# | 143 | 0.00 |
| 15 | T | Acrylonitrile | 0.291 | 0.375 | -28.9# | 140 | 0.00 |
| 16 | T | Acetone | 0.266 | 0.311 | -16.9 | 130 | -0.02 |
| 17 | T | Carbon Disulfide | 1.446 | 1.648 | -14.0 | 132 | 0.00 |
| 18 | T | Methyl Acetate | 0.655 | 0.888 | -35.6# | 151# | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.479 | 1.806 | -22.1# | 131 | 0.00 |
| 20 | T | Methylene Chloride | 0.564 | 0.631 | -11.9 | 129 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.502 | 0.565 | -12.5 | 124 | 0.00 |
| 22 | T | Diisopropyl ether | 1.433 | 1.971 | -37.5# | 148 | 0.00 |
| 23 | T | Vinyl Acetate | 1.217 | 1.708 | -40.3# | 146 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.897 | 1.108 | -23.5# | 135 | 0.00 |
| 25 | T | 2-Butanone | 0.381 | 0.509 | -33.6# | 143 | -0.02 |
| 26 | T | 2,2-Dichloropropane | 0.758 | 0.698 | 7.9 | 102 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.562 | 0.638 | -13.5 | 126 | 0.00 |
| 28 | T | Bromochloromethane | 0.413 | 0.561 | -35.8# | 145 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.238 | 0.330 | -38.7# | 148 | -0.01 |
| 30 | C | Chloroform | 0.918 | 1.060 | -15.5# | 131 | 0.00 |
| 31 | T | Cyclohexane | 0.819 | 0.984 | -20.1# | 135 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.773 | 0.890 | -15.1 | 126 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.555 | 0.681 | -22.7# | 135 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 119 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.336 | 0.336 | 0.0 | 120 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.458 | 0.481 | -5.0 | 129 | 0.00 |
| 37 | T | Ethyl Acetate | 0.459 | 0.572 | -24.6# | 143 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.467 | 0.473 | -1.3 | 123 | 0.00 |
| 39 | T | Methylcyclohexane | 0.542 | 0.557 | -2.8 | 122 | 0.00 |
| 40 | TM | Benzene | 1.362 | 1.479 | -8.6 | 131 | 0.00 |
| 41 | T | Methacrylonitrile | 0.238 | 0.310 | -30.3# | 149 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.460 | 0.525 | -14.1 | 137 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.704 | 0.887 | -26.0# | 149 | 0.00 |
| 44 | TM | Trichloroethene | 0.388 | 0.369 | 4.9 | 116 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.364 | 0.418 | -14.8# | 138 | 0.00 |

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Sample : VSTDCCC050
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** MSVOA_U
**LabSampleId :** VSTDCCC050

Quant Time: Aug 28 05:10:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082819W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 28 02:42:03 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 | 0.248 | 0.262 | -5.6 | 128 | 0.00 |
| 47 | T | Bromodichloromethane | 0.472 | 0.519 | -10.0 | 132 | 0.00 |
| 48 | T | Methyl methacrylate | 0.335 | 0.439 | -31.0# | 156# | 0.00 |
| 49 | T | 1,4-Dioxane | 0.009 | 0.010 | -11.1 | 121 | -0.06 |
| 50 | S | Toluene-d8 | 1.240 | 1.151 | 7.2 | 108 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.486 | 0.475 | 2.3 | 119 | 0.00 |
| 52 | CM | Toluene | 0.859 | 0.807 | 6.1# | 113 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.522 | 0.476 | 8.8 | 111 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.564 | 0.621 | -10.1 | 129 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.363 | 0.337 | 7.2 | 118 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.513 | 0.523 | -1.9 | 120 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.591 | 0.574 | 2.9 | 117 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.187 | 0.235 | -25.7# | 136 | 0.00 |
| 59 | T | 2-Hexanone | 0.373 | 0.414 | -11.0 | 133 | 0.00 |
| 60 | T | Dibromochloromethane | 0.408 | 0.383 | 6.1 | 117 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.383 | 0.371 | 3.1 | 119 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.476 | 0.394 | 17.2 | 106 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 118 | 0.00 |
| 64 | T | Tetrachloroethene | 0.402 | 0.334 | 16.9 | 97 | 0.00 |
| 65 | PM | Chlorobenzene | 1.030 | 1.007 | 2.2 | 117 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.384 | 0.374 | 2.6 | 115 | 0.00 |
| 67 | C | Ethyl Benzene | 1.717 | 1.885 | -9.8# | 128 | 0.00 |
| 68 | T | m/p-Xylenes | 0.662 | 0.734 | -10.9 | 127 | 0.00 |
| 69 | T | o-Xylene | 0.633 | 0.709 | -12.0 | 129 | 0.00 |
| 70 | T | Styrene | 1.083 | 1.243 | -14.8 | 130 | 0.00 |
| 71 | P | Bromoform | 0.340 | 0.325 | 4.4 | 114 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 121 | 0.00 |
| 73 | T | Isopropylbenzene | 3.218 | 3.433 | -6.7 | 129 | 0.00 |
| 74 | T | N-amyl acetate | 1.208 | 1.601 | -32.5# | 153# | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.159 | 1.009 | 12.9 | 112 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.996 | 0.849 | 14.8 | 106 | 0.00 |
| 77 | T | Bromobenzene | 0.909 | 0.772 | 15.1 | 107 | 0.00 |
| 78 | T | n-propylbenzene | 3.649 | 3.287 | 9.9 | 108 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.202 | 1.973 | 10.4 | 111 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.756 | 2.575 | 6.6 | 111 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.348 | 0.290 | 16.7 | 96 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.549 | 2.315 | 9.2 | 111 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.675 | 2.760 | -3.2 | 126 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.706 | 2.814 | -4.0 | 122 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.193 | 3.235 | -1.3 | 121 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.989 | 3.134 | -4.9 | 124 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.613 | 1.539 | 4.6 | 119 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.628 | 1.561 | 4.1 | 121 | 0.00 |
| 89 | T | n-Butylbenzene | 2.498 | 2.780 | -11.3 | 128 | 0.00 |

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Quant Title : SW846 8260
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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 | 0.494 | 0.529 | -7.1 | 132 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.588 | 1.545 | 2.7 | 121 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.232 | 0.272 | -17.2 | 133 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 0.978 | 0.996 | -1.8 | 108 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.651 | 0.550 | 15.5 | 105 | 0.00 |
| 95 T | Naphthalene | 2.592 | 2.977 | -14.9 | 114 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.015 | 1.010 | 0.5 | 109 | 0.00 |

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