# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW091619\
Data File : VW013054.D
Acq On : 16 Sep 2019 20:42
Operator : SY/VA
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** MSVOA_W
**LabSampleId :** VSTDCCC050

Quant Time: Sep 17 08:02:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091419S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 13 17:26:01 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 | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 96 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 46.275 | 7.5 | 88 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 48.071 | 3.9 | 90 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 43.999 | 12.0# | 89 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 40.755 | 18.5 | 84 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 45.177 | 9.6 | 89 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 40.032 | 19.9 | 76 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 54.109 | -8.2 | 105 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 48.308 | 3.4 | 94 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 47.959 | 4.1 | 91 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 388.094 | -55.2# | 138 | 0.03 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 47.213 | 5.6# | 91 | 0.00 |
| 13 | T | Acrolein | 250.000 | 341.939 | -36.8# | 122 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 49.593 | 0.8 | 94 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 342.117 | -36.8# | 129 | 0.00 |
| 16 | T | Acetone | 250.000 | 311.070 | -24.4# | 107 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 42.538 | 14.9 | 85 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 67.760 | -35.5# | 137 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 58.041 | -16.1 | 108 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 53.289 | -6.6 | 96 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 47.263 | 5.5 | 90 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 56.578 | -13.2 | 105 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 312.646 | -25.1# | 114 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 51.298 | -2.6 | 99 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 334.628 | -33.9# | 128 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 45.985 | 8.0 | 83 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 49.527 | 0.9 | 95 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 59.011 | -18.0 | 112 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 383.656 | -53.5# | 144 | 0.00 |
| 30 | C | Chloroform | 50.000 | 48.849 | 2.3# | 94 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 54.853 | -9.7 | 100 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 48.183 | 3.6 | 92 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 53.188 | -6.4 | 98 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 100 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 49.787 | 0.4 | 96 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 47.438 | 5.1 | 95 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 65.630 | -31.3# | 132 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 45.950 | 8.1 | 91 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 48.611 | 2.8 | 98 | 0.00 |
| 40 | TM | Benzene | 50.000 | 48.887 | 2.2 | 97 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 64.264 | -28.5# | 128 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 48.351 | 3.3 | 96 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 63.707 | -27.4# | 124 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 46.051 | 7.9 | 93 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 51.238 | -2.5# | 100 | 0.00 |

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ALS Vial : 25 Sample Multiplier: 1

**Instrument :** MSVOA_W
**LabSampleId :** VSTDCCC050

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091419S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 13 17:26:01 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 | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 50.000 | 53.996 | -8.0 | 106 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 49.857 | 0.3 | 96 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 64.938 | -29.9# | 127 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 1417.779 | -41.8# | 136 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 49.855 | 0.3 | 93 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 333.066 | -33.2# | 130 | 0.00 |
| 52 | CM | Toluene | 50.000 | 49.277 | 1.4# | 96 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 53.178 | -6.4 | 102 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 51.797 | -3.6 | 100 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 55.388 | -10.8 | 109 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 63.519 | -27.0# | 120 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 54.921 | -9.8 | 107 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 322.832 | -29.1# | 126 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 326.632 | -30.7# | 124 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 51.455 | -2.9 | 98 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 56.478 | -13.0 | 109 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 49.223 | 1.6 | 95 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 102 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 49.151 | 1.7 | 100 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 48.835 | 2.3 | 99 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 49.150 | 1.7 | 97 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 48.952 | 2.1# | 96 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 98.236 | 1.8 | 96 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 46.950 | 6.1 | 92 | 0.00 |
| 70 | T | Styrene | 50.000 | 47.029 | 5.9 | 92 | 0.00 |
| 71 | P | Bromoform | 50.000 | 52.779 | -5.6 | 102 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 102 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 47.812 | 4.4 | 94 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 60.842 | -21.7# | 119 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 59.662 | -19.3 | 117 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 63.334 | -26.7# | 144 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 48.644 | 2.7 | 97 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 47.909 | 4.2 | 93 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 47.312 | 5.4 | 94 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 47.926 | 4.1 | 95 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 58.732 | -17.5 | 115 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 47.114 | 5.8 | 92 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 49.962 | 0.1 | 98 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 48.786 | 2.4 | 96 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 50.099 | -0.2 | 98 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 49.318 | 1.4 | 97 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 47.314 | 5.4 | 96 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 48.884 | 2.2 | 97 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 49.562 | 0.9 | 97 | 0.00 |

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**LabSampleId :** VSTDCCC050

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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 | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 50.000 | 49.212 | 1.6 | 98 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 50.552 | -1.1 | 102 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 64.641 | -29.3# | 134 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 51.474 | -2.9 | 102 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 48.921 | 2.2 | 101 | 0.00 |
| 95 T | Naphthalene | 50.000 | 66.749 | -33.5# | 126 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 53.547 | -7.1 | 107 | 0.00 |

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