# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW110819\
Data File : VW013952.D
Acq On : 08 Nov 2019 18:29
Operator : SY/VA
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 18 Sample Multiplier: 1

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

Quant Time: Nov 09 04:19:44 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W102319S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 23 14:11:46 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 | 94 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 47.908 | 4.2 | 106 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 45.637 | 8.7 | 99 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 50.129 | -0.3# | 99 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 49.484 | 1.0 | 99 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 53.656 | -7.3 | 104 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 54.169 | -8.3 | 105 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 53.295 | -6.6 | 103 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 48.148 | 3.7 | 92 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 49.840 | 0.3 | 95 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 364.017 | -45.6# | 151 | -0.04 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 49.141 | 1.7# | 94 | 0.00 |
| 13 | T | Acrolein | 250.000 | 287.162 | -14.9 | 108 | -0.01 |
| 14 | T | Allyl chloride | 50.000 | 51.366 | -2.7 | 97 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 293.391 | -17.4 | 116 | -0.01 |
| 16 | T | Acetone | 250.000 | 304.841 | -21.9# | 110 | -0.02 |
| 17 | T | Carbon Disulfide | 50.000 | 47.270 | 5.5 | 89 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 57.106 | -14.2 | 118 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 56.581 | -13.2 | 108 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 56.508 | -13.0 | 104 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 49.398 | 1.2 | 93 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 54.201 | -8.4 | 102 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 281.332 | -12.5 | 106 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 51.060 | -2.1 | 97 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 301.914 | -20.8# | 116 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 48.862 | 2.3 | 97 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 51.261 | -2.5 | 97 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 54.806 | -9.6 | 96 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 301.032 | -20.4# | 117 | 0.00 |
| 30 | C | Chloroform | 50.000 | 49.987 | 0.0# | 97 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 47.587 | 4.8 | 94 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 50.113 | -0.2 | 96 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 51.843 | -3.7 | 93 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 97 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 49.927 | 0.1 | 90 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 47.977 | 4.0 | 93 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 55.604 | -11.2 | 115 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 47.701 | 4.6 | 93 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 49.472 | 1.1 | 94 | 0.00 |
| 40 | TM | Benzene | 50.000 | 49.206 | 1.6 | 96 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 56.828 | -13.7 | 122 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 50.101 | -0.2 | 98 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 56.426 | -12.9 | 112 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 48.864 | 2.3 | 95 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 50.937 | -1.9# | 99 | 0.00 |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 50.000 | 50.976 | -2.0 | 100 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 50.420 | -0.8 | 97 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 52.985 | -6.0 | 102 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 1235.629 | -23.6# | 129 | -0.02 |
| 50 | S | Toluene-d8 | 50.000 | 50.981 | -2.0 | 91 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 287.153 | -14.9 | 115 | 0.00 |
| 52 | CM | Toluene | 50.000 | 49.337 | 1.3# | 95 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 52.786 | -5.6 | 101 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 51.538 | -3.1 | 99 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 52.432 | -4.9 | 105 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 57.223 | -14.4 | 110 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 51.725 | -3.5 | 101 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 290.548 | -16.2 | 108 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 292.215 | -16.9 | 112 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 49.962 | 0.1 | 97 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 52.143 | -4.3 | 103 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 51.332 | -2.7 | 93 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 98 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 49.352 | 1.3 | 97 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 49.885 | 0.2 | 98 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 50.790 | -1.6 | 98 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 50.290 | -0.6# | 97 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 99.799 | 0.2 | 97 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 50.625 | -1.3 | 98 | 0.00 |
| 70 | T | Styrene | 50.000 | 51.893 | -3.8 | 98 | 0.00 |
| 71 | P | Bromoform | 50.000 | 52.043 | -4.1 | 102 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 97 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 51.168 | -2.3 | 98 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 60.459 | -20.9# | 118 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 53.810 | -7.6 | 109 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 54.388 | -8.8 | 111 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 51.522 | -3.0 | 100 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 51.367 | -2.7 | 99 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 51.191 | -2.4 | 99 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 51.324 | -2.6 | 98 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 55.419 | -10.8 | 110 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 50.998 | -2.0 | 98 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 51.815 | -3.6 | 99 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 52.180 | -4.4 | 99 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 51.302 | -2.6 | 99 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 51.743 | -3.5 | 99 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 51.191 | -2.4 | 99 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 50.683 | -1.4 | 100 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 51.931 | -3.9 | 98 | 0.00 |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 50.000 | 50.182 | -0.4 | 95 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 51.900 | -3.8 | 101 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 55.712 | -11.4 | 114 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 54.119 | -8.2 | 103 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 50.920 | -1.8 | 100 | 0.00 |
| 95 T | Naphthalene | 50.000 | 59.300 | -18.6 | 111 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 54.092 | -8.2 | 103 | 0.00 |

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