# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW090618\
Data File : VW005154.D
Acq On : 06 Sep 2018 10:47
Operator : SY/AP
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Sep 06 13:58:28 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W090118S.M
Quant Title : SW846 8260
QLast Update : Sat Sep 01 03:35:05 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 | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 112 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 49.513 | 1.0 | 117 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 52.941 | -5.9 | 120 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 54.023 | -8.0# | 121 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 52.962 | -5.9 | 108 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 51.319 | -2.6 | 113 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 52.881 | -5.8 | 121 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 50.246 | -0.5 | 118 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 53.642 | -7.3 | 122 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 40.682 | 18.6 | 88 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 324.315 | -29.7# | 130 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 52.851 | -5.7# | 120 | 0.00 |
| 13 | T | Acrolein | 250.000 | 254.718 | -1.9 | 126 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 54.753 | -9.5 | 122 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 270.220 | -8.1 | 122 | 0.00 |
| 16 | T | Acetone | 250.000 | 285.733 | -14.3 | 135 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 53.067 | -6.1 | 119 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 49.418 | 1.2 | 119 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 53.324 | -6.6 | 118 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 54.256 | -8.5 | 117 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 50.033 | -0.1 | 115 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 55.008 | -10.0 | 117 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 284.874 | -13.9 | 122 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 51.259 | -2.5 | 117 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 271.828 | -8.7 | 126 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 56.649 | -13.3 | 131 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 49.534 | 0.9 | 113 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 50.257 | -0.5 | 115 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 271.172 | -8.5 | 121 | 0.00 |
| 30 | C | Chloroform | 50.000 | 49.425 | 1.2# | 114 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 54.742 | -9.5 | 122 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 51.743 | -3.5 | 116 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 51.322 | -2.6 | 125 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 112 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 52.427 | -4.9 | 122 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 54.626 | -9.3 | 118 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 55.132 | -10.3 | 122 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 52.491 | -5.0 | 115 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 59.193 | -18.4 | 121 | 0.00 |
| 40 | TM | Benzene | 50.000 | 52.892 | -5.8 | 113 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 58.562 | -17.1 | 124 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 49.582 | 0.8 | 112 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 56.401 | -12.8 | 123 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 51.012 | -2.0 | 111 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 52.734 | -5.5# | 115 | 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 | 50.217 | -0.4 | 113 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 50.930 | -1.9 | 113 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 58.575 | -17.2 | 123 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 1173.870 | -17.4 | 114 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 56.536 | -13.1 | 123 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 295.291 | -18.1 | 123 | 0.00 |
| 52 | CM | Toluene | 50.000 | 53.978 | -8.0# | 112 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 55.257 | -10.5 | 119 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 55.045 | -10.1 | 118 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 50.379 | -0.8 | 112 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 58.823 | -17.6 | 119 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 52.826 | -5.7 | 117 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 300.236 | -20.1# | 123 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 318.359 | -27.3# | 129 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 50.652 | -1.3 | 112 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 50.865 | -1.7 | 112 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 57.002 | -14.0 | 125 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 108 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 50.331 | -0.7 | 104 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 52.862 | -5.7 | 110 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 51.729 | -3.5 | 110 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 56.386 | -12.8# | 112 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 112.272 | -12.3 | 111 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 56.163 | -12.3 | 112 | 0.00 |
| 70 | T | Styrene | 50.000 | 56.350 | -12.7 | 110 | 0.00 |
| 71 | P | Bromoform | 50.000 | 51.418 | -2.8 | 109 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 108 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 57.981 | -16.0 | 113 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 62.830 | -25.7# | 126 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 54.860 | -9.7 | 116 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 54.306 | -8.6 | 119 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 53.160 | -6.3 | 108 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 58.775 | -17.5 | 114 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 56.093 | -12.2 | 112 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 57.109 | -14.2 | 111 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 60.724 | -21.4# | 125 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 55.006 | -10.0 | 111 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 58.150 | -16.3 | 112 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 56.377 | -12.8 | 109 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 58.921 | -17.8 | 115 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 58.965 | -17.9 | 113 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 53.207 | -6.4 | 109 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 52.585 | -5.2 | 109 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 60.682 | -21.4# | 117 | 0.00 |

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

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|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 50.000 | 55.249 | -10.5 | 113 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 53.603 | -7.2 | 109 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 56.336 | -12.7 | 118 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 55.908 | -11.8 | 110 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 57.162 | -14.3 | 114 | 0.00 |
| 95 T | Naphthalene | 50.000 | 52.690 | -5.4 | 112 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 55.871 | -11.7 | 110 | 0.00 |

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