# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW062919\
Data File : VW011050.D
Acq On : 28 Jun 2019 09:56
Operator : SY/VA
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Jun 29 01:58:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W062819S.M
Quant Title : SW846 8260
QLast Update : Fri Jun 28 01:55:46 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 | 120 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 54.204 | -8.4 | 140 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 48.622 | 2.8 | 129 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 51.203 | -2.4# | 130 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 49.723 | 0.6 | 128 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 52.860 | -5.7 | 131 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 57.184 | -14.4 | 141 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 47.574 | 4.9 | 121 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 51.591 | -3.2 | 130 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 50.128 | -0.3 | 125 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 200.141 | 19.9 | 107 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 51.092 | -2.2# | 128 | 0.00 |
| 13 | T | Acrolein | 250.000 | 247.022 | 1.2 | 109 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 55.201 | -10.4 | 135 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 235.049 | 6.0 | 115 | 0.00 |
| 16 | T | Acetone | 250.000 | 256.461 | -2.6 | 124 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 52.686 | -5.4 | 128 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 41.622 | 16.8 | 113 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 48.209 | 3.6 | 119 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 45.302 | 9.4 | 122 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 50.569 | -1.1 | 127 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 49.395 | 1.2 | 122 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 249.418 | 0.2 | 119 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 49.328 | 1.3 | 123 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 234.283 | 6.3 | 116 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 48.210 | 3.6 | 127 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 48.857 | 2.3 | 123 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 42.394 | 15.2 | 93 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 229.332 | 8.3 | 114 | 0.00 |
| 30 | C | Chloroform | 50.000 | 49.341 | 1.3# | 123 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 48.794 | 2.4 | 128 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 51.053 | -2.1 | 126 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 46.781 | 6.4 | 99 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 119 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 48.816 | 2.4 | 102 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 51.215 | -2.4 | 126 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 46.023 | 8.0 | 113 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 52.515 | -5.0 | 128 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 52.708 | -5.4 | 131 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.317 | -0.6 | 124 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 48.932 | 2.1 | 118 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 48.643 | 2.7 | 121 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 46.999 | 6.0 | 115 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 49.939 | 0.1 | 124 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 49.342 | 1.3# | 122 | 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 | 47.499 | 5.0 | 118 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 50.283 | -0.6 | 124 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 47.537 | 4.9 | 116 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 920.767 | 7.9 | 110 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 49.883 | 0.2 | 102 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 234.397 | 6.2 | 115 | 0.00 |
| 52 | CM | Toluene | 50.000 | 50.882 | -1.8# | 124 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 50.130 | -0.3 | 121 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 50.717 | -1.4 | 122 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 48.109 | 3.8 | 117 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 48.201 | 3.6 | 117 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 47.968 | 4.1 | 119 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 199.036 | 20.4# | 103 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 243.791 | 2.5 | 116 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 49.587 | 0.8 | 121 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 47.837 | 4.3 | 118 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 48.544 | 2.9 | 100 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 117 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 49.543 | 0.9 | 119 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 50.468 | -0.9 | 122 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 51.737 | -3.5 | 124 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 52.208 | -4.4# | 126 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 103.509 | -3.5 | 124 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 51.334 | -2.7 | 122 | 0.00 |
| 70 | T | Styrene | 50.000 | 51.828 | -3.7 | 123 | 0.00 |
| 71 | P | Bromoform | 50.000 | 49.785 | 0.4 | 116 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 115 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 53.335 | -6.7 | 127 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 49.697 | 0.6 | 114 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 49.066 | 1.9 | 117 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 46.749 | 6.5 | 111 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 51.028 | -2.1 | 123 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 53.381 | -6.8 | 126 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 51.672 | -3.3 | 123 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 53.375 | -6.8 | 126 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 45.497 | 9.0 | 116 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 52.426 | -4.9 | 125 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 53.476 | -7.0 | 127 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 52.488 | -5.0 | 125 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 53.824 | -7.6 | 128 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 53.536 | -7.1 | 128 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 51.272 | -2.5 | 123 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 50.521 | -1.0 | 123 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 53.968 | -7.9 | 128 | 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 | 53.616 | -7.2 | 126 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 50.167 | -0.3 | 120 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.428 | 5.1 | 111 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 52.226 | -4.5 | 122 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 52.673 | -5.3 | 125 | 0.00 |
| 95 T | Naphthalene | 50.000 | 51.031 | -2.1 | 116 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 50.869 | -1.7 | 120 | 0.00 |

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