# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW061319\
Data File : VW010804.D
Acq On : 13 Jun 2019 18:11
Operator : SY/VA
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 17 Sample Multiplier: 1

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

Quant Time: Jun 14 08:45:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W060419S.M
Quant Title : SW846 8260
QLast Update : Wed Jun 05 03:21:19 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 | 80 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 47.670 | 4.7 | 88 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 50.853 | -1.7 | 92 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 49.507 | 1.0# | 88 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 55.215 | -10.4 | 100 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 51.957 | -3.9 | 88 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 53.916 | -7.8 | 92 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 56.042 | -12.1 | 95 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 54.384 | -8.8 | 91 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 42.230 | 15.5 | 73 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 332.350 | -32.9# | 119 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 53.277 | -6.6# | 90 | 0.00 |
| 13 | T | Acrolein | 250.000 | 144.435 | 42.2# | 45 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 58.169 | -16.3 | 97 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 291.486 | -16.6 | 102 | 0.00 |
| 16 | T | Acetone | 250.000 | 296.513 | -18.6 | 96 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 50.318 | -0.6 | 87 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 59.275 | -18.5 | 108 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 58.197 | -16.4 | 99 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 53.982 | -8.0 | 94 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 55.234 | -10.5 | 92 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 59.455 | -18.9 | 99 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 299.990 | -20.0 | 99 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 57.577 | -15.2 | 97 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 305.567 | -22.2# | 101 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 58.109 | -16.2 | 98 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 56.801 | -13.6 | 95 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 57.349 | -14.7 | 94 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 295.531 | -18.2 | 104 | 0.00 |
| 30 | C | Chloroform | 50.000 | 57.479 | -15.0# | 97 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 51.263 | -2.5 | 91 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 57.185 | -14.4 | 96 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 57.266 | -14.5 | 92 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 81 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 56.542 | -13.1 | 88 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 54.283 | -8.6 | 93 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 57.755 | -15.5 | 102 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 55.136 | -10.3 | 92 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 52.778 | -5.6 | 89 | 0.00 |
| 40 | TM | Benzene | 50.000 | 55.168 | -10.3 | 95 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 59.281 | -18.6 | 103 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 57.428 | -14.9 | 99 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 58.694 | -17.4 | 102 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 54.313 | -8.6 | 93 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 56.854 | -13.7# | 97 | 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 | 57.040 | -14.1 | 98 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 58.017 | -16.0 | 98 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 58.903 | -17.8 | 100 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 1117.900 | -11.8 | 103 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 53.286 | -6.6 | 87 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 294.509 | -17.8 | 103 | 0.00 |
| 52 | CM | Toluene | 50.000 | 54.983 | -10.0# | 93 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 58.556 | -17.1 | 98 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 57.337 | -14.7 | 96 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 57.034 | -14.1 | 97 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 58.072 | -16.1 | 99 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 57.104 | -14.2 | 98 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 276.311 | -10.5 | 101 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 298.078 | -19.2 | 102 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 57.789 | -15.6 | 97 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 56.613 | -13.2 | 97 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 54.692 | -9.4 | 90 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 84 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 52.680 | -5.4 | 91 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 55.040 | -10.1 | 96 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 56.144 | -12.3 | 96 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 54.716 | -9.4# | 95 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 108.988 | -9.0 | 95 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 54.764 | -9.5 | 95 | 0.00 |
| 70 | T | Styrene | 50.000 | 55.648 | -11.3 | 96 | 0.00 |
| 71 | P | Bromoform | 50.000 | 56.121 | -12.2 | 96 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 85 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 54.121 | -8.2 | 94 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 59.882 | -19.8 | 106 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 55.879 | -11.8 | 99 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 54.724 | -9.4 | 99 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 55.234 | -10.5 | 96 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 54.626 | -9.3 | 95 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 55.209 | -10.4 | 97 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 55.187 | -10.4 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 57.439 | -14.9 | 99 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 55.438 | -10.9 | 97 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 54.818 | -9.6 | 95 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 55.022 | -10.0 | 96 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 54.258 | -8.5 | 94 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 54.521 | -9.0 | 95 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 55.263 | -10.5 | 96 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 54.965 | -9.9 | 98 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 55.613 | -11.2 | 96 | 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 | 56.317 | -12.6 | 96 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 54.871 | -9.7 | 98 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 60.266 | -20.5# | 109 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 58.048 | -16.1 | 100 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 55.414 | -10.8 | 97 | 0.00 |
| 95 T | Naphthalene | 50.000 | 60.521 | -21.0# | 104 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 59.702 | -19.4 | 102 | 0.00 |

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