# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD102320\
Data File : VD067382.D
Acq On : 23 Oct 2020 16:27
Operator : VA/SY
Sample : VSTDCCC050
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_D
**LabSampleId :** VSTDCCC050

Quant Time: Oct 24 07:48:16 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
Quant Title : SW846 8260
QLast Update : Mon Oct 19 19:13:29 2020
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 | 98 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 39.922 | 20.2# | 78 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 39.532 | 20.9# | 85 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 40.501 | 19.0# | 84 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 47.197 | 5.6 | 92 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 41.576 | 16.8 | 89 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 43.322 | 13.4 | 91 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 43.922 | 12.2 | 94 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 42.375 | 15.3 | 89 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 43.547 | 12.9 | 83 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 182.019 | 27.2# | 82 | -0.01 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 44.627 | 10.7# | 91 | 0.00 |
| 13 | T | Acrolein | 250.000 | 188.691 | 24.5# | 71 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 44.993 | 10.0 | 91 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 223.914 | 10.4 | 94 | 0.00 |
| 16 | T | Acetone | 250.000 | 224.608 | 10.2 | 97 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 39.429 | 21.1# | 82 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 44.521 | 11.0 | 102 | -0.01 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 45.738 | 8.5 | 93 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 45.293 | 9.4 | 90 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 44.913 | 10.2 | 93 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 47.102 | 5.8 | 94 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 235.779 | 5.7 | 91 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 45.233 | 9.5 | 93 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 223.954 | 10.4 | 95 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 46.609 | 6.8 | 97 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 45.589 | 8.8 | 93 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 47.284 | 5.4 | 89 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 227.216 | 9.1 | 92 | -0.01 |
| 30 | C | Chloroform | 50.000 | 46.590 | 6.8# | 95 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 40.493 | 19.0 | 88 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 46.583 | 6.8 | 96 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 44.498 | 11.0 | 88 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 94 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 48.847 | 2.3 | 89 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 47.822 | 4.4 | 94 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 46.668 | 6.7 | 91 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 48.633 | 2.7 | 94 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 46.489 | 7.0 | 89 | 0.00 |
| 40 | TM | Benzene | 50.000 | 48.224 | 3.6 | 94 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 59.185 | -18.4 | 135 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 46.526 | 6.9 | 91 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 45.806 | 8.4 | 92 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 49.011 | 2.0 | 95 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 46.705 | 6.6# | 92 | 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 | 46.435 | 7.1 | 95 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 48.651 | 2.7 | 96 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 45.337 | 9.3 | 92 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 1020.304 | -2.0 | 100 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 48.748 | 2.5 | 88 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 233.796 | 6.5 | 93 | 0.00 |
| 52 | CM | Toluene | 50.000 | 49.169 | 1.7# | 95 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 48.214 | 3.6 | 93 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 47.788 | 4.4 | 93 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 47.699 | 4.6 | 96 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 49.896 | 0.2 | 96 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 47.765 | 4.5 | 95 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 250.178 | -0.1 | 95 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 239.340 | 4.3 | 92 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 47.336 | 5.3 | 95 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 46.370 | 7.3 | 93 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 48.970 | 2.1 | 90 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 95 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 47.916 | 4.2 | 97 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 47.728 | 4.5 | 95 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 49.333 | 1.3 | 97 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 48.941 | 2.1# | 94 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 99.992 | 0.0 | 96 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 48.731 | 2.5 | 96 | 0.00 |
| 70 | T | Styrene | 50.000 | 48.985 | 2.0 | 94 | 0.00 |
| 71 | P | Bromoform | 50.000 | 46.658 | 6.7 | 96 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 95 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 52.170 | -4.3 | 96 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 49.049 | 1.9 | 96 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 48.568 | 2.9 | 96 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 50.564 | -1.1 | 110 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.811 | 0.4 | 96 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 51.024 | -2.0 | 94 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 49.786 | 0.4 | 95 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 50.662 | -1.3 | 94 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 47.660 | 4.7 | 97 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 49.977 | 0.0 | 96 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 51.904 | -3.8 | 95 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 51.140 | -2.3 | 94 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 50.764 | -1.5 | 95 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 50.752 | -1.5 | 95 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 48.715 | 2.6 | 97 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 48.874 | 2.3 | 97 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 51.492 | -3.0 | 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 | 50.232 | -0.5 | 97 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 48.154 | 3.7 | 96 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 46.085 | 7.8 | 98 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 50.567 | -1.1 | 97 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 51.250 | -2.5 | 96 | 0.00 |
| 95 T | Naphthalene | 50.000 | 49.940 | 0.1 | 93 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 49.099 | 1.8 | 94 | 0.00 |

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