# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD120419\
Data File : VD064409.D
Acq On : 04 Dec 2019 11:09
Operator : VA/SY
Sample : VSTDCCC050
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Dec 05 05:44:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 29 07:18:03 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 | 107 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 51.839 | -3.7 | 116 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 49.679 | 0.6 | 111 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 51.465 | -2.9# | 111 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 45.572 | 8.9 | 103 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 49.608 | 0.8 | 107 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 51.688 | -3.4 | 111 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 50.553 | -1.1 | 109 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 53.588 | -7.2 | 117 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 55.587 | -11.2 | 105 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 220.646 | 11.7 | 91 | -0.01 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 53.471 | -6.9# | 115 | 0.00 |
| 13 | T | Acrolein | 250.000 | 245.572 | 1.8 | 110 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 55.136 | -10.3 | 117 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 243.375 | 2.6 | 105 | 0.00 |
| 16 | T | Acetone | 250.000 | 269.936 | -8.0 | 108 | -0.01 |
| 17 | T | Carbon Disulfide | 50.000 | 53.346 | -6.7 | 113 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 47.765 | 4.5 | 105 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 50.395 | -0.8 | 106 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 53.309 | -6.6 | 107 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 52.490 | -5.0 | 112 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 52.764 | -5.5 | 111 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 262.693 | -5.1 | 108 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 52.800 | -5.6 | 111 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 244.459 | 2.2 | 102 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 56.361 | -12.7 | 120 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 52.947 | -5.9 | 112 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 51.243 | -2.5 | 102 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 237.225 | 5.1 | 103 | 0.00 |
| 30 | C | Chloroform | 50.000 | 52.294 | -4.6# | 110 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 58.761 | -17.5 | 117 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 54.160 | -8.3 | 115 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 52.988 | -6.0 | 116 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 106 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 54.017 | -8.0 | 115 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 54.366 | -8.7 | 118 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 50.700 | -1.4 | 107 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 55.435 | -10.9 | 116 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 54.871 | -9.7 | 115 | 0.00 |
| 40 | TM | Benzene | 50.000 | 52.910 | -5.8 | 111 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 52.228 | -4.5 | 96 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 51.165 | -2.3 | 109 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 50.084 | -0.2 | 104 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 51.675 | -3.3 | 112 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 53.286 | -6.6# | 110 | 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 | 50.956 | -1.9 | 106 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 52.475 | -5.0 | 108 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 50.612 | -1.2 | 106 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 969.461 | 3.1 | 107 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 55.065 | -10.1 | 120 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 242.726 | 2.9 | 102 | 0.00 |
| 52 | CM | Toluene | 50.000 | 52.516 | -5.0# | 112 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 53.384 | -6.8 | 109 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 53.722 | -7.4 | 111 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 49.947 | 0.1 | 106 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 50.066 | -0.1 | 103 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 50.652 | -1.3 | 107 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 244.570 | 2.2 | 110 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 247.542 | 1.0 | 103 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 50.210 | -0.4 | 105 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 49.135 | 1.7 | 104 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 54.949 | -9.9 | 121 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 104 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 54.004 | -8.0 | 111 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 52.673 | -5.3 | 110 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 53.411 | -6.8 | 109 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 54.564 | -9.1# | 113 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 109.512 | -9.5 | 112 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 53.983 | -8.0 | 111 | 0.00 |
| 70 | T | Styrene | 50.000 | 53.579 | -7.2 | 110 | 0.00 |
| 71 | P | Bromoform | 50.000 | 49.721 | 0.6 | 104 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 103 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 55.879 | -11.8 | 113 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 52.329 | -4.7 | 103 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 49.939 | 0.1 | 101 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 56.696 | -13.4 | 121 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 53.626 | -7.3 | 108 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 56.067 | -12.1 | 114 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 54.894 | -9.8 | 111 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 55.784 | -11.6 | 112 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 53.805 | -7.6 | 108 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 54.856 | -9.7 | 112 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 55.721 | -11.4 | 113 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 54.484 | -9.0 | 111 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 56.304 | -12.6 | 113 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 56.594 | -13.2 | 115 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 53.796 | -7.6 | 110 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 52.988 | -6.0 | 108 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 57.002 | -14.0 | 115 | 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 | 55.221 | -10.4 | 112 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 52.822 | -5.6 | 106 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 56.135 | -12.3 | 108 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 53.791 | -7.6 | 109 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 54.671 | -9.3 | 109 | 0.00 |
| 95 T | Naphthalene | 50.000 | 51.234 | -2.5 | 103 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 52.779 | -5.6 | 105 | 0.00 |

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