# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD102820\
Data File : VD067426.D
Acq On : 28 Oct 2020 11:32
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: Oct 29 00:52:59 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 : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 100 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 41.943 | 16.1 | 84 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 39.340 | 21.3 | 87 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 43.546 | 12.9# | 93 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 47.667 | 4.7 | 95 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 43.770 | 12.5 | 96 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 47.445 | 5.1 | 102 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 45.353 | 9.3 | 99 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 48.935 | 2.1 | 106 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 51.255 | -2.5 | 101 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 224.263 | 10.3 | 99 | -0.02 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 48.596 | 2.8# | 102 | 0.00 |
| 13 | T | Acrolein | 250.000 | 204.948 | 18.0 | 80 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 48.399 | 3.2 | 100 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 239.325 | 4.3 | 103 | 0.00 |
| 16 | T | Acetone | 250.000 | 262.043 | -4.8 | 116 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 41.611 | 16.8 | 89 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 47.678 | 4.6 | 112 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 48.154 | 3.7 | 100 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 48.673 | 2.7 | 98 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 48.585 | 2.8 | 103 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 50.200 | -0.4 | 103 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 255.041 | -2.0 | 101 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 48.784 | 2.4 | 103 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 239.759 | 4.1 | 104 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 51.226 | -2.5 | 109 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 49.357 | 1.3 | 103 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 44.938 | 10.1 | 87 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 248.641 | 0.5 | 103 | 0.00 |
| 30 | C | Chloroform | 50.000 | 48.746 | 2.5# | 102 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 46.589 | 6.8 | 103 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 50.509 | -1.0 | 106 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 44.297 | 11.4 | 90 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 98 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 48.315 | 3.4 | 92 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 50.262 | -0.5 | 104 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 49.809 | 0.4 | 102 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 51.089 | -2.2 | 104 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 51.476 | -3.0 | 103 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.169 | -0.3 | 103 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 54.625 | -9.3 | 131 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 48.875 | 2.3 | 100 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 48.503 | 3.0 | 102 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 50.830 | -1.7 | 104 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 50.113 | -0.2# | 104 | 0.00 |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 50.000 | 47.420 | 5.2 | 102 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 50.149 | -0.3 | 104 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 48.622 | 2.8 | 104 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 1099.751 | -10.0 | 113 | 0.01 |
| 50 | S | Toluene-d8 | 50.000 | 48.523 | 3.0 | 91 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 251.395 | -0.6 | 104 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.118 | -2.2# | 103 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 49.993 | 0.0 | 101 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 50.452 | -0.9 | 103 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 49.488 | 1.0 | 105 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 51.636 | -3.3 | 104 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 49.758 | 0.5 | 104 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 254.436 | -1.8 | 101 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 253.765 | -1.5 | 103 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 48.357 | 3.3 | 102 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 47.559 | 4.9 | 100 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 46.437 | 7.1 | 90 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 97 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 49.818 | 0.4 | 103 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 51.222 | -2.4 | 104 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 52.563 | -5.1 | 105 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 52.916 | -5.8# | 104 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 105.849 | -5.8 | 104 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 52.029 | -4.1 | 105 | 0.00 |
| 70 | T | Styrene | 50.000 | 51.973 | -3.9 | 102 | 0.00 |
| 71 | P | Bromoform | 50.000 | 49.862 | 0.3 | 105 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 98 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 55.909 | -11.8 | 107 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 49.863 | 0.3 | 101 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 49.370 | 1.3 | 101 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 43.817 | 12.4 | 98 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 50.824 | -1.6 | 101 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 54.996 | -10.0 | 105 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 52.917 | -5.8 | 104 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 54.542 | -9.1 | 105 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 50.345 | -0.7 | 106 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 52.825 | -5.7 | 105 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 55.338 | -10.7 | 105 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 54.300 | -8.6 | 103 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 54.853 | -9.7 | 106 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 55.461 | -10.9 | 107 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 52.437 | -4.9 | 108 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 51.458 | -2.9 | 106 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 55.620 | -11.2 | 107 | 0.00 |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 50.000 | 53.085 | -6.2 | 106 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 51.231 | -2.5 | 106 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 46.889 | 6.2 | 103 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 54.132 | -8.3 | 107 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 55.956 | -11.9 | 109 | 0.00 |
| 95 T | Naphthalene | 50.000 | 53.266 | -6.5 | 103 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 54.020 | -8.0 | 107 | 0.00 |

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