# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD010720\
Data File : VD064800.D
Acq On : 07 Jan 2020 18:39
Operator : VA/SY
Sample : VSTDCCC050
Misc : 5.00G/5.00ml/MSVOA_D/SOIL
ALS Vial : 15 Sample Multiplier: 1

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

Quant Time: Jan 08 08:26:41 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
Quant Title : SW846 8260
QLast Update : Tue Dec 24 13:19:06 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 | 77 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 44.640 | 10.7 | 67 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 50.970 | -1.9 | 78 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 48.477 | 3.0# | 76 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 47.794 | 4.4 | 76 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 50.365 | -0.7 | 75 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 46.701 | 6.6 | 71 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 55.230 | -10.5 | 85 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 48.295 | 3.4 | 73 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 52.526 | -5.1 | 72 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 279.075 | -11.6 | 79 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 48.807 | 2.4# | 74 | 0.00 |
| 13 | T | Acrolein | 250.000 | 248.798 | 0.5 | 73 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 54.348 | -8.7 | 82 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 285.090 | -14.0 | 85 | 0.00 |
| 16 | T | Acetone | 250.000 | 280.213 | -12.1 | 86 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 46.153 | 7.7 | 71 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 58.198 | -16.4 | 89 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 56.910 | -13.8 | 84 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 61.911 | -23.8# | 87 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 51.615 | -3.2 | 79 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 56.620 | -13.2 | 85 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 291.606 | -16.6 | 84 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 54.689 | -9.4 | 83 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 292.134 | -16.9 | 86 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 51.994 | -4.0 | 79 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 53.656 | -7.3 | 81 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 56.435 | -12.9 | 79 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 288.318 | -15.3 | 85 | 0.00 |
| 30 | C | Chloroform | 50.000 | 55.380 | -10.8# | 84 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 44.158 | 11.7 | 70 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 52.122 | -4.2 | 79 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 54.344 | -8.7 | 82 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 79 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 50.193 | -0.4 | 76 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 48.143 | 3.7 | 76 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 55.047 | -10.1 | 83 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 48.993 | 2.0 | 76 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 45.411 | 9.2 | 70 | 0.00 |
| 40 | TM | Benzene | 50.000 | 51.553 | -3.1 | 81 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 47.607 | 4.8 | 68 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 55.617 | -11.2 | 87 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 54.593 | -9.2 | 83 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 50.201 | -0.4 | 79 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 54.031 | -8.1# | 84 | 0.00 |

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ALS Vial : 15 Sample Multiplier: 1

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

Quant Time: Jan 08 08:26:41 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
Quant Title : SW846 8260
QLast Update : Tue Dec 24 13:19:06 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) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 50.000 | 54.075 | -8.2 | 83 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 54.793 | -9.6 | 85 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 54.585 | -9.2 | 80 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 1091.439 | -9.1 | 86 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 49.208 | 1.6 | 75 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 282.483 | -13.0 | 87 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.483 | -3.0# | 80 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 55.413 | -10.8 | 85 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 54.462 | -8.9 | 83 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 54.391 | -8.8 | 85 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 57.188 | -14.4 | 87 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 54.653 | -9.3 | 85 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 244.697 | 2.1 | 80 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 289.329 | -15.7 | 86 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 54.205 | -8.4 | 84 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 53.523 | -7.0 | 83 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 50.375 | -0.8 | 76 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 84 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 46.680 | 6.6 | 78 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 50.780 | -1.6 | 82 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 52.662 | -5.3 | 86 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 49.615 | 0.8# | 81 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 99.867 | 0.1 | 80 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 51.371 | -2.7 | 83 | 0.00 |
| 70 | T | Styrene | 50.000 | 51.839 | -3.7 | 84 | 0.00 |
| 71 | P | Bromoform | 50.000 | 54.082 | -8.2 | 88 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 84 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 49.756 | 0.5 | 80 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 54.557 | -9.1 | 86 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 52.514 | -5.0 | 86 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 48.517 | 3.0 | 92 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 51.048 | -2.1 | 83 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 49.442 | 1.1 | 80 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 50.825 | -1.7 | 83 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 50.232 | -0.5 | 81 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 51.827 | -3.7 | 85 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 49.846 | 0.3 | 82 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 49.476 | 1.0 | 79 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 51.349 | -2.7 | 83 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 49.051 | 1.9 | 79 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 50.157 | -0.3 | 80 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 50.889 | -1.8 | 84 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 50.006 | -0.0 | 81 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 49.496 | 1.0 | 80 | 0.00 |

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

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Quant Title : SW846 8260
QLast Update : Tue Dec 24 13:19:06 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) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 50.000 | 49.304 | 1.4 | 80 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 51.104 | -2.2 | 83 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 98.113 | -96.2# | 164 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 50.937 | -1.9 | 82 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 45.881 | 8.2 | 75 | 0.00 |
| 95 T | Naphthalene | 50.000 | 53.705 | -7.4 | 84 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 50.842 | -1.7 | 82 | 0.00 |

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