# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU071018\
Data File : VU025281.D
Acq On : 10 Jul 2018 11:33
Operator : MD/SY
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_U
**LabSampleId :** VSTDCCC050

Quant Time: Jul 11 07:31:05 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U070918W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 10 09:34:16 2018
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 | 83 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 45.575 | 8.8 | 88 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 45.710 | 8.6 | 85 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 45.236 | 9.5# | 87 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 60.850 | -21.7# | 96 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 47.190 | 5.6 | 88 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 47.437 | 5.1 | 91 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 47.898 | 4.2 | 92 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 48.890 | 2.2 | 95 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 44.029 | 11.9 | 87 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 241.748 | 3.3 | 94 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 46.482 | 7.0# | 92 | 0.00 |
| 13 | T | Acrolein | 250.000 | 150.293 | 39.9# | 45 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 45.803 | 8.4 | 94 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 242.289 | 3.1 | 95 | 0.00 |
| 16 | T | Acetone | 250.000 | 254.850 | -1.9 | 104 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 43.187 | 13.6 | 84 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 50.220 | -0.4 | 98 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 49.544 | 0.9 | 95 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 47.295 | 5.4 | 91 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 45.280 | 9.4 | 90 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 48.390 | 3.2 | 93 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 244.634 | 2.1 | 93 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 48.461 | 3.1 | 91 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 245.911 | 1.6 | 97 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 49.018 | 2.0 | 99 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 46.376 | 7.2 | 91 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 46.669 | 6.7 | 77 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 237.213 | 5.1 | 92 | 0.00 |
| 30 | C | Chloroform | 50.000 | 49.213 | 1.6# | 92 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 46.103 | 7.8 | 89 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 49.029 | 1.9 | 92 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 42.461 | 15.1 | 73 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 82 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 43.728 | 12.5 | 73 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 47.083 | 5.8 | 89 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 50.020 | -0.0 | 93 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 50.587 | -1.2 | 92 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 47.201 | 5.6 | 89 | 0.00 |
| 40 | TM | Benzene | 50.000 | 47.281 | 5.4 | 90 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 49.801 | 0.4 | 94 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 49.069 | 1.9 | 91 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 49.639 | 0.7 | 94 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 46.790 | 6.4 | 91 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 49.359 | 1.3# | 92 | 0.00 |

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Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_U
**LabSampleId :** VSTDCCC050

Quant Time: Jul 11 07:31:05 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U070918W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 10 09:34:16 2018
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 | 49.557 | 0.9 | 93 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 51.244 | -2.5 | 93 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 49.962 | 0.1 | 93 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 1086.082 | -8.6 | 102 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 42.562 | 14.9 | 72 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 245.446 | 1.8 | 94 | 0.00 |
| 52 | CM | Toluene | 50.000 | 48.844 | 2.3# | 91 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 50.521 | -1.0 | 93 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 49.414 | 1.2 | 93 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 48.295 | 3.4 | 92 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 49.704 | 0.6 | 93 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 49.904 | 0.2 | 93 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 183.787 | 26.5# | 68 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 245.068 | 2.0 | 95 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 51.829 | -3.7 | 93 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 49.269 | 1.5 | 91 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 43.377 | 13.2 | 71 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 81 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 47.288 | 5.4 | 87 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 48.251 | 3.5 | 92 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 51.264 | -2.5 | 92 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 49.199 | 1.6# | 92 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 99.561 | 0.4 | 91 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 48.535 | 2.9 | 89 | 0.00 |
| 70 | T | Styrene | 50.000 | 49.863 | 0.3 | 91 | 0.00 |
| 71 | P | Bromoform | 50.000 | 45.335 | 9.3 | 92 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 83 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 46.355 | 7.3 | 91 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 47.460 | 5.1 | 91 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 45.875 | 8.3 | 90 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 51.649 | -3.3 | 98 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 46.187 | 7.6 | 90 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 47.831 | 4.3 | 91 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 49.789 | 0.4 | 91 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 47.631 | 4.7 | 91 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 41.848 | 16.3 | 81 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 46.559 | 6.9 | 91 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 46.685 | 6.6 | 92 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 47.254 | 5.5 | 91 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 48.303 | 3.4 | 92 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 48.926 | 2.1 | 92 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 46.459 | 7.1 | 92 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 48.209 | 3.6 | 92 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 48.895 | 2.2 | 94 | 0.00 |

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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 | 48.027 | 3.9 | 90 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 47.206 | 5.6 | 92 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.588 | -3.2 | 99 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 47.514 | 5.0 | 99 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 48.145 | 3.7 | 100 | 0.00 |
| 95 T | Naphthalene | 50.000 | 50.082 | -0.2 | 101 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 49.653 | 0.7 | 102 | 0.00 |

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