# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081918\
Data File : VW004782.D
Acq On : 18 Aug 2018 14:39
Operator : SY/AP
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 56 Sample Multiplier: 1

**Instrument :** MSVOA_W
**LabSampleId :** VSTDCCC050

Quant Time: Aug 20 02:31:43 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W081918S.M
Quant Title : SW846 8260
QLast Update : Sat Aug 18 01:49:53 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 | 81 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 48.600 | 2.8 | 84 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 51.929 | -3.9 | 95 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 53.290 | -6.6# | 94 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 54.358 | -8.7 | 96 | 0.01 |
| 6 | T | Chloroethane | 50.000 | 55.324 | -10.6 | 96 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 51.846 | -3.7 | 91 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 55.771 | -11.5 | 95 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 51.962 | -3.9 | 89 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 57.066 | -14.1 | 96 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 269.382 | -7.8 | 92 | 0.02 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 53.269 | -6.5# | 91 | 0.00 |
| 13 | T | Acrolein | 250.000 | 197.582 | 21.0# | 69 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 54.123 | -8.2 | 90 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 282.167 | -12.9 | 92 | 0.01 |
| 16 | T | Acetone | 250.000 | 222.301 | 11.1 | 76 | 0.02 |
| 17 | T | Carbon Disulfide | 50.000 | 54.401 | -8.8 | 93 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 57.811 | -15.6 | 94 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 58.274 | -16.5 | 92 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 61.133 | -22.3# | 101 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 55.949 | -11.9 | 93 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 60.232 | -20.5# | 96 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 279.961 | -12.0 | 87 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 56.355 | -12.7 | 94 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 263.700 | -5.5 | 86 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 42.341 | 15.3 | 73 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 56.985 | -14.0 | 93 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 58.168 | -16.3 | 92 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 284.032 | -13.6 | 89 | 0.00 |
| 30 | C | Chloroform | 50.000 | 56.355 | -12.7# | 95 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 50.249 | -0.5 | 86 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 54.791 | -9.6 | 92 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 51.954 | -3.9 | 84 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 85 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 50.455 | -0.9 | 84 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 52.352 | -4.7 | 90 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 54.594 | -9.2 | 91 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 51.723 | -3.4 | 90 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 51.344 | -2.7 | 85 | 0.00 |
| 40 | TM | Benzene | 50.000 | 54.474 | -8.9 | 94 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 54.019 | -8.0 | 87 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 54.934 | -9.9 | 95 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 54.410 | -8.8 | 92 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 53.174 | -6.3 | 92 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 54.794 | -9.6# | 95 | 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 | 53.989 | -8.0 | 93 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 55.089 | -10.2 | 94 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 56.474 | -12.9 | 93 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 1149.609 | -15.0 | 95 | 0.02 |
| 50 | S | Toluene-d8 | 50.000 | 50.328 | -0.7 | 83 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 278.525 | -11.4 | 92 | 0.00 |
| 52 | CM | Toluene | 50.000 | 54.369 | -8.7# | 93 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 51.024 | -2.0 | 86 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 51.885 | -3.8 | 88 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 54.974 | -9.9 | 95 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 51.886 | -3.8 | 92 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 54.789 | -9.6 | 95 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 266.450 | -6.6 | 87 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 273.635 | -9.5 | 89 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 55.356 | -10.7 | 94 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 53.602 | -7.2 | 92 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 50.261 | -0.5 | 83 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 86 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 61.434 | -22.9# | 108 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 52.875 | -5.8 | 93 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 54.370 | -8.7 | 95 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 54.822 | -9.6# | 92 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 110.122 | -10.1 | 92 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 56.496 | -13.0 | 94 | 0.00 |
| 70 | T | Styrene | 50.000 | 57.012 | -14.0 | 94 | 0.00 |
| 71 | P | Bromoform | 50.000 | 53.737 | -7.5 | 92 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 83 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 56.167 | -12.3 | 91 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 49.929 | 0.1 | 92 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 53.542 | -7.1 | 91 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 51.601 | -3.2 | 93 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 55.362 | -10.7 | 94 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 55.704 | -11.4 | 90 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 55.846 | -11.7 | 93 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 56.752 | -13.5 | 92 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 46.073 | 7.9 | 76 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 55.654 | -11.3 | 93 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 56.058 | -12.1 | 91 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 57.025 | -14.0 | 92 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 54.852 | -9.7 | 89 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 54.748 | -9.5 | 88 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 54.404 | -8.8 | 93 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 53.547 | -7.1 | 92 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 52.308 | -4.6 | 85 | 0.00 |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

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|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 50.000 | 54.226 | -8.5 | 93 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 54.548 | -9.1 | 93 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 53.751 | -7.5 | 91 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 54.243 | -8.5 | 91 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 50.292 | -0.6 | 86 | 0.00 |
| 95 T | Naphthalene | 50.000 | 51.096 | -2.2 | 92 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 55.458 | -10.9 | 93 | 0.00 |

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