# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF100218\
Data File : VF060415.D
Acq On : 2 Oct 2018 21:42
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00/5mL/MSVOA F/SOIL
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** MSVOA_F
**LabSampleId :** VSTDCCC050

Quant Time: Oct 03 04:30:25 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F100118S.M
Quant Title : SW846 8260
QLast Update : Tue Oct 02 11:42:56 2018
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 | 152 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 38.288 | 23.4 | 111 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 45.205 | 9.6 | 137 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 46.241 | 7.5# | 139 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 41.037 | 17.9 | 116 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 47.070 | 5.9 | 135 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 38.086 | 23.8 | 108 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 44.693 | 10.6 | 144 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 41.047 | 17.9 | 123 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 45.423 | 9.2 | 137 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 210.518 | 15.8 | 129 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 45.964 | 8.1# | 141 | 0.00 |
| 13 | T | Acrolein | 250.000 | 197.670 | 20.9 | 116 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 47.826 | 4.3 | 142 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 241.235 | 3.5 | 149 | 0.00 |
| 16 | T | Acetone | 250.000 | 181.135 | 27.5# | 107 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 44.784 | 10.4 | 134 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 51.601 | -3.2 | 158 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 45.670 | 8.7 | 134 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 49.960 | 0.1 | 147 | 0.05 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 47.011 | 6.0 | 143 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 46.178 | 7.6 | 141 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 236.534 | 5.4 | 145 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 44.136 | 11.7 | 134 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 257.406 | -3.0 | 168 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 41.333 | 17.3 | 122 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 51.414 | -2.8 | 158 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 53.300 | -6.6 | 148 | 0.00 |
| 29 | | Tetrahydrofuran | 250.000 | 286.156 | -14.5 | 171 | 0.00 |
| 30 | C | Chloroform | 50.000 | 46.080 | 7.8# | 135 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 54.841 | -9.7 | 162 | 0.02 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 44.634 | 10.7 | 127 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 40.261 | 19.5 | 116 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 139 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 49.275 | 1.5 | 132 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 52.650 | -5.3 | 145 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 53.733 | -7.5 | 159 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 44.668 | 10.7 | 118 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 51.799 | -3.6 | 157 | 0.00 |
| 40 | TM | Benzene | 50.000 | 54.329 | -8.7 | 161 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 49.590 | 0.8 | 150 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 41.375 | 17.3 | 115 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 55.950 | -11.9 | 167 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 49.841 | 0.3 | 148 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 53.420 | -6.8# | 153 | 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 | 48.115 | 3.8 | 134 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 44.484 | 11.0 | 125 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 47.770 | 4.5 | 137 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 1112.201 | -11.2 | 150 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 50.135 | -0.3 | 134 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 265.212 | -6.1 | 160 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.791 | -3.6# | 156 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 44.931 | 10.1 | 132 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 49.721 | 0.6 | 136 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 49.179 | 1.6 | 144 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 56.853 | -13.7 | 168 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 50.084 | -0.2 | 147 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 225.966 | 9.6 | 134 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 253.673 | -1.5 | 162 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 46.973 | 6.1 | 130 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 50.152 | -0.3 | 142 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 45.529 | 8.9 | 126 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 143 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 50.558 | -1.1 | 147 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 49.681 | 0.6 | 144 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 46.875 | 6.3 | 133 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 48.714 | 2.6# | 141 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 98.338 | 1.7 | 147 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 47.533 | 4.9 | 135 | 0.00 |
| 70 | T | Styrene | 50.000 | 48.384 | 3.2 | 143 | 0.00 |
| 71 | P | Bromoform | 50.000 | 46.960 | 6.1 | 130 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 126 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 50.678 | -1.4 | 132 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 58.517 | -17.0 | 157 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 51.868 | -3.7 | 135 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 47.103 | 5.8 | 123 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 50.897 | -1.8 | 134 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 49.616 | 0.8 | 128 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 48.567 | 2.9 | 125 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 48.294 | 3.4 | 125 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 54.668 | -9.3 | 135 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 49.212 | 1.6 | 129 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 49.457 | 1.1 | 124 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 49.831 | 0.3 | 128 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 49.388 | 1.2 | 127 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 48.230 | 3.5 | 124 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 48.780 | 2.4 | 128 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 46.907 | 6.2 | 122 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 47.163 | 5.7 | 118 | 0.00 |

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| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 50.000 | 47.461 | 5.1 | 118 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 48.327 | 3.3 | 125 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.337 | 5.3 | 125 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 46.342 | 7.3 | 120 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 44.102 | 11.8 | 114 | 0.00 |
| 95 T | Naphthalene | 50.000 | 50.673 | -1.3 | 128 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 47.716 | 4.6 | 120 | 0.00 |

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