# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071019\
Data File : VD063056.D
Acq On : 10 Jul 2019 14:07
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00g/5ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Jul 11 07:09:35 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 01:50:56 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 | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 106 | -0.01 |
| 2 | T | Dichlorodifluoromethane | 0.647 | 0.557 | 13.9 | 93 | 0.00 |
| 3 | P | Chloromethane | 0.487 | 0.425 | 12.7 | 97 | 0.00 |
| 4 | C | Vinyl Chloride | 0.482 | 0.472 | 2.1# | 102 | 0.00 |
| 5 | T | Bromomethane | 0.226 | 0.198 | 12.4 | 81 | 0.00 |
| 6 | T | Chloroethane | 0.218 | 0.200 | 8.3 | 91 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.976 | 0.964 | 1.2 | 103 | 0.00 |
| 8 | T | Diethyl Ether | 0.124 | 0.124 | 0.0 | 94 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.529 | 0.603 | -14.0 | 123 | 0.00 |
| 10 | T | Methyl Iodide | 0.698 | 0.745 | -6.7 | 107 | -0.01 |
| 11 | T | Tert butyl alcohol | 0.025 | 0.027 | -8.0 | 122 | -0.01 |
| 12 | CM | 1,1-Dichloroethene | 0.397 | 0.404 | -1.8# | 109 | -0.01 |
| 13 | T | Acrolein | 0.025 | 0.020 | 20.0# | 88 | 0.00 |
| 14 | T | Allyl chloride | 0.586 | 0.641 | -9.4 | 111 | -0.01 |
| 15 | T | Acrylonitrile | 0.058 | 0.069 | -19.0 | 124 | -0.01 |
| 16 | T | Acetone | 0.122 | 0.132 | -8.2 | 127 | -0.01 |
| 17 | T | Carbon Disulfide | 1.268 | 1.157 | 8.8 | 95 | -0.01 |
| 18 | T | Methyl Acetate | 0.164 | 0.179 | -9.1 | 119 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 0.859 | 0.980 | -14.1 | 113 | -0.01 |
| 20 | T | Methylene Chloride | 0.414 | 0.416 | -0.5 | 108 | -0.01 |
| 21 | T | trans-1,2-Dichloroethene | 0.423 | 0.458 | -8.3 | 113 | -0.01 |
| 22 | T | Diisopropyl ether | 1.192 | 1.408 | -18.1 | 124 | -0.01 |
| 23 | T | Vinyl Acetate | 0.746 | 0.860 | -15.3 | 119 | -0.01 |
| 24 | P | 1,1-Dichloroethane | 0.776 | 0.863 | -11.2 | 115 | -0.02 |
| 25 | T | 2-Butanone | 0.102 | 0.122 | -19.6 | 124 | -0.01 |
| 26 | T | 2,2-Dichloropropane | 0.823 | 0.914 | -11.1 | 113 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.447 | 0.509 | -13.9 | 119 | -0.01 |
| 28 | T | Bromochloromethane | 0.273 | 0.298 | -9.2 | 116 | -0.02 |
| 29 | | Tetrahydrofuran | 0.048 | 0.052 | -8.3 | 116 | -0.01 |
| 30 | C | Chloroform | 0.944 | 1.040 | -10.2# | 114 | -0.02 |
| 31 | T | Cyclohexane | 0.510 | 0.547 | -7.3 | 112 | -0.01 |
| 32 | T | 1,1,1-Trichloroethane | 0.983 | 1.052 | -7.0 | 108 | -0.01 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.543 | 0.497 | 8.5 | 102 | -0.01 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 109 | -0.01 |
| 35 | S | Dibromofluoromethane | 0.422 | 0.396 | 6.2 | 112 | -0.01 |
| 36 | T | 1,1-Dichloropropene | 0.473 | 0.484 | -2.3 | 107 | -0.01 |
| 37 | T | Ethyl Acetate | 0.217 | 0.209 | 3.7 | 115 | -0.01 |
| 38 | T | Carbon Tetrachloride | 0.712 | 0.712 | 0.0 | 107 | -0.01 |
| 39 | T | Methylcyclohexane | 0.417 | 0.435 | -4.3 | 110 | -0.01 |
| 40 | TM | Benzene | 0.950 | 1.046 | -10.1 | 116 | -0.01 |
| 41 | T | Methacrylonitrile | 0.250 | 0.257 | -2.8 | 111 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.518 | 0.528 | -1.9 | 106 | -0.01 |
| 43 | T | Isopropyl Acetate | 0.248 | 0.286 | -15.3 | 118 | 0.00 |
| 44 | TM | Trichloroethene | 0.372 | 0.404 | -8.6 | 114 | -0.01 |
| 45 | C | 1,2-Dichloropropane | 0.236 | 0.264 | -11.9# | 121 | -0.01 |

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.203 | 0.213 | -4.9 | 114 | -0.01 |
| 47 | T | Bromodichloromethane | 0.527 | 0.561 | -6.5 | 107 | -0.01 |
| 48 | T | Methyl methacrylate | 0.176 | 0.193 | -9.7 | 122 | -0.01 |
| 49 | T | 1,4-Dioxane | 0.001 | 0.002 | -100.0# | 125 | -0.02 |
| 50 | S | Toluene-d8 | 0.918 | 0.884 | 3.7 | 107 | -0.01 |
| 51 | T | 4-Methyl-2-Pentanone | 0.176 | 0.200 | -13.6 | 125 | -0.01 |
| 52 | CM | Toluene | 0.639 | 0.726 | -13.6# | 120 | -0.01 |
| 53 | T | t-1,3-Dichloropropene | 0.431 | 0.467 | -8.4 | 116 | -0.01 |
| 54 | T | cis-1,3-Dichloropropene | 0.469 | 0.522 | -11.3 | 117 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.219 | 0.245 | -11.9 | 125 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.234 | 0.261 | -11.5 | 117 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.336 | 0.372 | -10.7 | 118 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.120 | 0.134 | -11.7 | 123 | -0.01 |
| 59 | T | 2-Hexanone | 0.125 | 0.143 | -14.4 | 121 | -0.01 |
| 60 | T | Dibromochloromethane | 0.409 | 0.455 | -11.2 | 119 | -0.01 |
| 61 | T | 1,2-Dibromoethane | 0.259 | 0.286 | -10.4 | 118 | -0.01 |
| 62 | S | 4-Bromofluorobenzene | 0.417 | 0.394 | 5.5 | 109 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 105 | -0.01 |
| 64 | T | Tetrachloroethene | 0.412 | 0.421 | -2.2 | 111 | -0.01 |
| 65 | PM | Chlorobenzene | 0.928 | 0.990 | -6.7 | 110 | -0.01 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.434 | 0.465 | -7.1 | 112 | 0.00 |
| 67 | C | Ethyl Benzene | 1.666 | 1.748 | -4.9# | 114 | -0.01 |
| 68 | T | m/p-Xylenes | 0.580 | 0.608 | -4.8 | 108 | 0.00 |
| 69 | T | o-Xylene | 0.530 | 0.567 | -7.0 | 107 | 0.00 |
| 70 | T | Styrene | 0.932 | 0.995 | -6.8 | 110 | 0.00 |
| 71 | P | Bromoform | 0.297 | 0.314 | -5.7 | 110 | -0.01 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 73 | T | Isopropylbenzene | 3.206 | 3.677 | -14.7 | 115 | 0.00 |
| 74 | T | N-amyl acetate | 0.779 | 0.967 | -24.1# | 116 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.522 | 0.636 | -21.8# | 127 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.577 | 0.651 | -12.8 | 112 | 0.00 |
| 77 | T | Bromobenzene | 0.862 | 0.991 | -15.0 | 110 | 0.00 |
| 78 | T | n-propylbenzene | 3.731 | 4.195 | -12.4 | 117 | -0.01 |
| 79 | T | 2-Chlorotoluene | 2.132 | 2.358 | -10.6 | 111 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.693 | 3.126 | -16.1 | 118 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.151 | 0.162 | -7.3 | 107 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.567 | 3.024 | -17.8 | 121 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.002 | 3.382 | -12.7 | 111 | -0.01 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.760 | 3.102 | -12.4 | 109 | -0.01 |
| 85 | T | sec-Butylbenzene | 3.262 | 3.755 | -15.1 | 118 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.984 | 3.225 | -8.1 | 103 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.546 | 1.720 | -11.3 | 110 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.553 | 1.698 | -9.3 | 108 | 0.00 |
| 89 | T | n-Butylbenzene | 2.793 | 3.039 | -8.8 | 112 | 0.00 |

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|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.802 | 0.931 | -16.1 | 110 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.322 | 1.435 | -8.5 | 109 | -0.01 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.102 | 0.119 | -16.7 | 112 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.033 | 1.178 | -14.0 | 118 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.789 | 0.853 | -8.1 | 108 | 0.00 |
| 95 T | Naphthalene | 1.448 | 1.725 | -19.1 | 115 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.794 | 0.856 | -7.8 | 109 | 0.00 |

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