# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012419\
Data File : VF061492.D
Acq On : 24 Jan 2019 10:54
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Jan 25 04:21:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
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 | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 117 | 0.03 |
| 2 | T | Dichlorodifluoromethane | 0.982 | 0.957 | 2.5 | 112 | 0.01 |
| 3 | P | Chloromethane | 0.720 | 0.734 | -1.9 | 129 | 0.01 |
| 4 | C | Vinyl Chloride | 0.641 | 0.659 | -2.8# | 128 | 0.01 |
| 5 | T | Bromomethane | 0.418 | 0.434 | -3.8 | 119 | 0.00 |
| 6 | T | Chloroethane | 0.284 | 0.310 | -9.2 | 120 | 0.02 |
| 7 | T | Trichlorofluoromethane | 1.246 | 1.096 | 12.0 | 107 | 0.01 |
| 8 | T | Diethyl Ether | 0.160 | 0.168 | -5.0 | 124 | 0.01 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.599 | 0.582 | 2.8 | 120 | 0.02 |
| 10 | T | Methyl Iodide | 0.928 | 0.983 | -5.9 | 124 | 0.01 |
| 11 | T | Tert butyl alcohol | 0.026 | 0.024 | 7.7 | 109 | 0.03 |
| 12 | CM | 1,1-Dichloroethene | 0.445 | 0.488 | -9.7# | 134 | 0.02 |
| 13 | T | Acrolein | 0.022 | 0.027 | -22.7 | 139 | 0.02 |
| 14 | T | Allyl chloride | 0.699 | 0.678 | 3.0 | 145 | 0.02 |
| 15 | T | Acrylonitrile | 0.067 | 0.065 | 3.0 | 125 | 0.03 |
| 16 | T | Acetone | 0.124 | 0.146 | -17.7 | 142 | 0.02 |
| 17 | T | Carbon Disulfide | 1.387 | 1.547 | -11.5 | 133 | 0.01 |
| 18 | T | Methyl Acetate | 0.246 | 0.254 | -3.3 | 129 | 0.03 |
| 19 | T | Methyl tert-butyl Ether | 0.997 | 0.911 | 8.6 | 107 | 0.02 |
| 20 | T | Methylene Chloride | 0.477 | 0.445 | 6.7 | 127 | 0.02 |
| 21 | T | trans-1,2-Dichloroethene | 0.489 | 0.502 | -2.7 | 130 | 0.02 |
| 22 | T | Diisopropyl ether | 1.583 | 1.570 | 0.8 | 116 | 0.02 |
| 23 | T | Vinyl Acetate | 0.640 | 0.711 | -11.1 | 108 | 0.03 |
| 24 | P | 1,1-Dichloroethane | 0.993 | 0.977 | 1.6 | 116 | 0.03 |
| 25 | T | 2-Butanone | 0.206 | 0.233 | -13.1 | 136 | 0.04 |
| 26 | T | 2,2-Dichloropropane | 0.610 | 0.546 | 10.5 | 117 | 0.03 |
| 27 | T | cis-1,2-Dichloroethene | 0.722 | 0.743 | -2.9 | 120 | 0.04 |
| 28 | T | Bromochloromethane | 0.446 | 0.428 | 4.0 | 120 | 0.03 |
| 29 | | Tetrahydrofuran | 0.089 | 0.087 | 2.2 | 111 | 0.04 |
| 30 | C | Chloroform | 1.340 | 1.301 | 2.9# | 112 | 0.04 |
| 31 | T | Cyclohexane | 0.992 | 1.072 | -8.1 | 132 | 0.04 |
| 32 | T | 1,1,1-Trichloroethane | 0.983 | 0.800 | 18.6 | 113 | 0.04 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.617 | 0.456 | 26.1# | 85 | 0.04 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 115 | 0.03 |
| 35 | S | Dibromofluoromethane | 0.395 | 0.326 | 17.5 | 93 | 0.04 |
| 36 | T | 1,1-Dichloropropene | 0.580 | 0.625 | -7.8 | 122 | 0.04 |
| 37 | T | Ethyl Acetate | 0.232 | 0.247 | -6.5 | 122 | 0.04 |
| 38 | T | Carbon Tetrachloride | 0.507 | 0.472 | 6.9 | 115 | 0.04 |
| 39 | T | Methylcyclohexane | 0.628 | 0.665 | -5.9 | 133 | 0.03 |
| 40 | TM | Benzene | 1.290 | 1.319 | -2.2 | 123 | 0.04 |
| 41 | T | Methacrylonitrile | 0.123 | 0.121 | 1.6 | 118 | 0.04 |
| 42 | TM | 1,2-Dichloroethane | 0.460 | 0.456 | 0.9 | 109 | 0.04 |
| 43 | T | Isopropyl Acetate | 0.291 | 0.314 | -7.9 | 121 | 0.03 |
| 44 | TM | Trichloroethene | 0.396 | 0.424 | -7.1 | 123 | 0.04 |
| 45 | C | 1,2-Dichloropropane | 0.339 | 0.365 | -7.7# | 119 | 0.04 |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.225 | 0.228 | -1.3 | 110 | 0.04 |
| 47 | T | Bromodichloromethane | 0.557 | 0.584 | -4.8 | 118 | 0.04 |
| 48 | T | Methyl methacrylate | 0.195 | 0.204 | -4.6 | 116 | 0.03 |
| 49 | T | 1,4-Dioxane | 0.001 | 0.001 | 0.0 | 101 | 0.04 |
| 50 | S | Toluene-d8 | 1.081 | 0.903 | 16.5 | 97 | 0.03 |
| 51 | T | 4-Methyl-2-Pentanone | 0.214 | 0.219 | -2.3 | 118 | 0.04 |
| 52 | CM | Toluene | 0.850 | 0.868 | -2.1# | 120 | 0.04 |
| 53 | T | t-1,3-Dichloropropene | 0.442 | 0.454 | -2.7 | 112 | 0.04 |
| 54 | T | cis-1,3-Dichloropropene | 0.553 | 0.575 | -4.0 | 108 | 0.04 |
| 55 | T | 1,1,2-Trichloroethane | 0.241 | 0.247 | -2.5 | 113 | 0.03 |
| 56 | T | Ethyl methacrylate | 0.281 | 0.284 | -1.1 | 114 | 0.03 |
| 57 | T | 1,3-Dichloropropane | 0.452 | 0.455 | -0.7 | 109 | 0.03 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.023 | 0.038 | -65.2# | 145 | 0.03 |
| 59 | T | 2-Hexanone | 0.149 | 0.168 | -12.8 | 128 | 0.04 |
| 60 | T | Dibromochloromethane | 0.353 | 0.349 | 1.1 | 107 | 0.03 |
| 61 | T | 1,2-Dibromoethane | 0.276 | 0.276 | 0.0 | 110 | 0.04 |
| 62 | S | 4-Bromofluorobenzene | 0.505 | 0.385 | 23.8 | 88 | 0.03 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 109 | 0.04 |
| 64 | T | Tetrachloroethene | 0.376 | 0.409 | -8.8 | 114 | 0.03 |
| 65 | PM | Chlorobenzene | 1.017 | 1.086 | -6.8 | 115 | 0.04 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.405 | 0.423 | -4.4 | 114 | 0.03 |
| 67 | C | Ethyl Benzene | 1.858 | 1.902 | -2.4# | 116 | 0.03 |
| 68 | T | m/p-Xylenes | 0.668 | 0.685 | -2.5 | 114 | 0.04 |
| 69 | T | o-Xylene | 0.724 | 0.775 | -7.0 | 119 | 0.03 |
| 70 | T | Styrene | 0.991 | 0.998 | -0.7 | 118 | 0.03 |
| 71 | P | Bromoform | 0.182 | 0.195 | -7.1 | 111 | 0.03 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 103 | 0.02 |
| 73 | T | Isopropylbenzene | 4.067 | 4.644 | -14.2 | 111 | 0.03 |
| 74 | T | N-amyl acetate | 0.962 | 1.188 | -23.5 | 118 | 0.03 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.724 | 0.770 | -6.4 | 107 | 0.02 |
| 76 | T | 1,2,3-Trichloropropane | 0.521 | 0.573 | -10.0 | 109 | 0.03 |
| 77 | T | Bromobenzene | 0.859 | 0.965 | -12.3 | 108 | 0.02 |
| 78 | T | n-propylbenzene | 4.884 | 5.232 | -7.1 | 109 | 0.02 |
| 79 | T | 2-Chlorotoluene | 2.822 | 3.037 | -7.6 | 109 | 0.03 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.282 | 3.707 | -12.9 | 113 | 0.02 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.226 | 0.259 | -14.6 | 103 | 0.02 |
| 82 | T | 4-Chlorotoluene | 2.847 | 3.076 | -8.0 | 109 | 0.02 |
| 83 | T | tert-Butylbenzene | 3.397 | 3.793 | -11.7 | 111 | 0.03 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.380 | 3.723 | -10.1 | 113 | 0.02 |
| 85 | T | sec-Butylbenzene | 4.613 | 5.145 | -11.5 | 109 | 0.02 |
| 86 | T | p-Isopropyltoluene | 3.787 | 4.232 | -11.8 | 113 | 0.02 |
| 87 | T | 1,3-Dichlorobenzene | 1.697 | 1.779 | -4.8 | 110 | 0.02 |
| 88 | T | 1,4-Dichlorobenzene | 1.623 | 1.717 | -5.8 | 104 | 0.03 |
| 89 | T | n-Butylbenzene | 3.905 | 4.215 | -7.9 | 109 | 0.02 |

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|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.893 | 1.114 | -24.7 | 122 | 0.02 |
| 91 T | 1,2-Dichlorobenzene | 1.607 | 1.725 | -7.3 | 106 | 0.02 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.128 | 0.142 | -10.9 | 105 | 0.02 |
| 93 T | 1,2,4-Trichlorobenzene | 1.125 | 1.216 | -8.1 | 107 | 0.02 |
| 94 T | Hexachlorobutadiene | 0.698 | 0.767 | -9.9 | 108 | 0.02 |
| 95 T | Naphthalene | 2.138 | 2.283 | -6.8 | 101 | 0.02 |
| 96 T | 1,2,3-Trichlorobenzene | 1.042 | 1.112 | -6.7 | 103 | 0.02 |

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