# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY061423\
Data File : VY014154.D
Acq On : 14 Jun 2023 15:04
Operator : KP/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Jun 15 07:32:07 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060923S.M
Quant Title : SW846 8260
QLast Update : Fri Jun 09 18:07:13 2023
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 | 91 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.557 | 0.537 | 3.6 | 91 | 0.00 |
| 3 | P | Chloromethane | 0.707 | 0.652 | 7.8 | 89 | 0.00 |
| 4 | C | Vinyl Chloride | 0.687 | 0.689 | -0.3# | 94 | 0.00 |
| 5 | T | Bromomethane | 0.567 | 0.473 | 16.6 | 87 | 0.00 |
| 6 | T | Chloroethane | 0.467 | 0.426 | 8.8 | 90 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.116 | 1.124 | -0.7 | 95 | 0.00 |
| 8 | T | Diethyl Ether | 0.373 | 0.343 | 8.0 | 89 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.563 | 0.578 | -2.7 | 93 | 0.00 |
| 10 | T | Methyl Iodide | 0.744 | 0.756 | -1.6 | 91 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.092 | 0.075 | 18.5 | 93 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.571 | 0.558 | 2.3# | 92 | 0.00 |
| 13 | T | Acrolein | 0.044 | 0.043 | 2.3 | 121 | 0.00 |
| 14 | T | Allyl chloride | 1.035 | 1.003 | 3.1 | 90 | 0.00 |
| 15 | T | Acrylonitrile | 0.192 | 0.175 | 8.9 | 87 | 0.00 |
| 16 | T | Acetone | 0.210 | 0.284 | -35.2# | 146 | 0.00 |
| 17 | T | Carbon Disulfide | 1.850 | 1.850 | 0.0 | 95 | 0.00 |
| 18 | T | Methyl Acetate | 0.815 | 0.733 | 10.1 | 91 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.684 | 1.557 | 7.5 | 84 | 0.00 |
| 20 | T | Methylene Chloride | 0.775 | 0.682 | 12.0 | 92 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.637 | 0.617 | 3.1 | 89 | 0.00 |
| 22 | T | Diisopropyl ether | 1.981 | 1.903 | 3.9 | 88 | 0.00 |
| 23 | T | Vinyl Acetate | 1.169 | 1.116 | 4.5 | 88 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.142 | 1.085 | 5.0 | 90 | 0.00 |
| 25 | T | 2-Butanone | 0.258 | 0.300 | -16.3 | 118 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.073 | 1.042 | 2.9 | 92 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.712 | 0.689 | 3.2 | 92 | 0.00 |
| 28 | T | Bromochloromethane | 0.465 | 0.410 | 11.8 | 87 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.164 | 0.153 | 6.7 | 92 | 0.00 |
| 30 | C | Chloroform | 1.212 | 1.163 | 4.0# | 90 | 0.00 |
| 31 | T | Cyclohexane | 0.933 | 0.953 | -2.1 | 97 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.093 | 1.085 | 0.7 | 93 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.696 | 0.634 | 8.9 | 95 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 88 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.355 | 0.382 | -7.6 | 99 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.553 | 0.583 | -5.4 | 93 | 0.00 |
| 37 | T | Ethyl Acetate | 0.381 | 0.355 | 6.8 | 85 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.638 | 0.687 | -7.7 | 94 | 0.00 |
| 39 | T | Methylcyclohexane | 0.613 | 0.684 | -11.6 | 95 | 0.00 |
| 40 | TM | Benzene | 1.644 | 1.663 | -1.2 | 90 | 0.00 |
| 41 | T | Methacrylonitrile | 0.195 | 0.208 | -6.7 | 109 | 0.01 |
| 42 | TM | 1,2-Dichloroethane | 0.581 | 0.579 | 0.3 | 91 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.669 | 0.651 | 2.7 | 88 | 0.00 |
| 44 | TM | Trichloroethene | 0.439 | 0.455 | -3.6 | 91 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.418 | 0.412 | 1.4# | 88 | 0.00 |
| 46 | T | Dibromomethane | 0.257 | 0.249 | 3.1 | 89 | 0.00 |
| 47 | T | Bromodichloromethane | 0.602 | 0.601 | 0.2 | 89 | 0.00 |
| 48 | T | Methyl methacrylate | 0.312 | 0.314 | -0.6 | 91 | 0.00 |

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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) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.003 | 0.003 | 0.0 | 87 | -0.02 |
| 50 | S | Toluene-d8 | 1.326 | 1.299 | 2.0 | 95 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.363 | 0.354 | 2.5 | 89 | 0.00 |
| 52 | CM | Toluene | 1.019 | 1.055 | -3.5# | 91 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.634 | 0.642 | -1.3 | 90 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.691 | 0.687 | 0.6 | 89 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.341 | 0.332 | 2.6 | 88 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.470 | 0.471 | -0.2 | 86 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.583 | 0.567 | 2.7 | 86 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.177 | 0.222 | -25.4# | 96 | 0.00 |
| 59 | T | 2-Hexanone | 0.262 | 0.291 | -11.1 | 102 | 0.00 |
| 60 | T | Dibromochloromethane | 0.436 | 0.433 | 0.7 | 89 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.336 | 0.336 | 0.0 | 90 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.471 | 0.525 | -11.5 | 105 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 64 | T | Tetrachloroethene | 0.426 | 0.432 | -1.4 | 95 | 0.00 |
| 65 | PM | Chlorobenzene | 1.201 | 1.174 | 2.2 | 91 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.473 | 0.458 | 3.2 | 89 | 0.00 |
| 67 | C | Ethyl Benzene | 2.103 | 2.124 | -1.0# | 91 | 0.00 |
| 68 | T | m/p-Xylenes | 0.809 | 0.838 | -3.6 | 94 | 0.00 |
| 69 | T | o-Xylene | 0.765 | 0.774 | -1.2 | 91 | 0.00 |
| 70 | T | Styrene | 1.305 | 1.347 | -3.2 | 93 | 0.00 |
| 71 | P | Bromoform | 0.324 | 0.308 | 4.9 | 89 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 73 | T | Isopropylbenzene | 3.814 | 3.757 | 1.5 | 93 | 0.00 |
| 74 | T | N-amyl acetate | 1.209 | 1.145 | 5.3 | 92 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.852 | 0.755 | 11.4 | 89 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.656 | 0.640 | 2.4 | 91 | 0.00 |
| 77 | T | Bromobenzene | 1.003 | 0.944 | 5.9 | 91 | 0.00 |
| 78 | T | n-propylbenzene | 4.659 | 4.625 | 0.7 | 94 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.681 | 2.593 | 3.3 | 94 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.266 | 3.217 | 1.5 | 93 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.303 | 0.284 | 6.3 | 91 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.841 | 2.709 | 4.6 | 92 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.775 | 2.819 | -1.6 | 96 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.233 | 3.199 | 1.1 | 94 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.035 | 4.031 | 0.1 | 94 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.453 | 3.432 | 0.6 | 94 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.914 | 1.845 | 3.6 | 95 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.929 | 1.816 | 5.9 | 93 | 0.00 |
| 89 | T | n-Butylbenzene | 3.203 | 3.235 | -1.0 | 96 | 0.00 |
| 90 | T | Hexachloroethane | 0.688 | 0.663 | 3.6 | 94 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.719 | 1.643 | 4.4 | 94 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.162 | 0.147 | 9.3 | 98 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 1.089 | 1.072 | 1.6 | 97 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.629 | 0.648 | -3.0 | 100 | 0.00 |
| 95 | T | Naphthalene | 2.210 | 2.119 | 4.1 | 95 | 0.00 |

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|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.984 | 0.934 | 5.1 | 96 | 0.00 |

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