# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD052022\
Data File : VD073207.D
Acq On : 21 May 2022 02:34
Operator : VA/SY
Sample : VSTDCCC050
Misc : 5.00G/5.00ml/MSVOA_D/SOIL
ALS Vial : 22 Sample Multiplier: 1

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

Quant Time: May 21 03:54:56 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D051922S.M
Quant Title : SW846 8260
QLast Update : Thu May 19 15:13:42 2022
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 | 85 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.500 | 0.384 | 23.2 | 74 | 0.00 |
| 3 | P | Chloromethane | 0.565 | 0.466 | 17.5 | 80 | 0.00 |
| 4 | C | Vinyl Chloride | 0.517 | 0.423 | 18.2# | 75 | 0.00 |
| 5 | T | Bromomethane | 0.374 | 0.327 | 12.6 | 83 | 0.00 |
| 6 | T | Chloroethane | 0.318 | 0.293 | 7.9 | 83 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.913 | 0.805 | 11.8 | 80 | 0.00 |
| 8 | T | Diethyl Ether | 0.251 | 0.250 | 0.4 | 86 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.545 | 0.480 | 11.9 | 81 | 0.00 |
| 10 | T | Methyl Iodide | 0.588 | 0.523 | 11.1 | 76 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.086 | 0.042 | 51.2# | 79 | 0.01 |
| 12 | CM | 1,1-Dichloroethene | 0.502 | 0.455 | 9.4# | 80 | 0.00 |
| 13 | T | Acrolein | 0.039 | 0.049 | -25.6# | 127 | 0.00 |
| 14 | T | Allyl chloride | 0.811 | 0.767 | 5.4 | 83 | 0.00 |
| 15 | T | Acrylonitrile | 0.115 | 0.124 | -7.8 | 94 | 0.00 |
| 16 | T | Acetone | 0.096 | 0.090 | 6.3 | 92 | 0.00 |
| 17 | T | Carbon Disulfide | 1.666 | 1.408 | 15.5 | 76 | 0.00 |
| 18 | T | Methyl Acetate | 0.266 | 0.289 | -8.6 | 99 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.145 | 1.227 | -7.2 | 92 | 0.00 |
| 20 | T | Methylene Chloride | 0.716 | 0.703 | 1.8 | 101 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.608 | 0.585 | 3.8 | 85 | 0.00 |
| 22 | T | Diisopropyl ether | 1.700 | 1.809 | -6.4 | 90 | 0.00 |
| 23 | T | Vinyl Acetate | 0.907 | 0.979 | -7.9 | 91 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.091 | 1.083 | 0.7 | 89 | 0.00 |
| 25 | T | 2-Butanone | 0.140 | 0.148 | -5.7 | 96 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.931 | 0.781 | 16.1 | 75 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.672 | 0.671 | 0.1 | 87 | 0.00 |
| 28 | T | Bromochloromethane | 0.376 | 0.397 | -5.6 | 91 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.091 | 0.097 | -6.6 | 94 | 0.00 |
| 30 | C | Chloroform | 1.139 | 1.159 | -1.8# | 91 | 0.00 |
| 31 | T | Cyclohexane | 0.966 | 0.808 | 16.4 | 76 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.997 | 0.938 | 5.9 | 84 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.553 | 0.602 | -8.9 | 97 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.330 | 0.344 | -4.2 | 93 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.496 | 0.449 | 9.5 | 83 | 0.00 |
| 37 | T | Ethyl Acetate | 0.196 | 0.193 | 1.5 | 93 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.503 | 0.458 | 8.9 | 82 | 0.00 |
| 39 | T | Methylcyclohexane | 0.553 | 0.473 | 14.5 | 75 | 0.00 |
| 40 | TM | Benzene | 1.430 | 1.380 | 3.5 | 89 | 0.00 |
| 41 | T | Methacrylonitrile | 0.114 | 0.103 | 9.6 | 95 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.398 | 0.403 | -1.3 | 93 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.362 | 0.374 | -3.3 | 93 | 0.00 |
| 44 | TM | Trichloroethene | 0.381 | 0.361 | 5.2 | 87 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.360 | 0.361 | -0.3# | 92 | 0.00 |
| 46 | T | Dibromomethane | 0.198 | 0.201 | -1.5 | 94 | 0.00 |
| 47 | T | Bromodichloromethane | 0.506 | 0.501 | 1.0 | 92 | 0.00 |
| 48 | T | Methyl methacrylate | 0.182 | 0.176 | 3.3 | 87 | 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 | 0.002 | 0.002 | 0.0 | 95 | 0.00 |
| 50 | S | Toluene-d8 | 1.216 | 1.271 | -4.5 | 92 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.188 | 0.206 | -9.6 | 98 | 0.00 |
| 52 | CM | Toluene | 0.904 | 0.880 | 2.7# | 86 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.457 | 0.449 | 1.8 | 91 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.547 | 0.550 | -0.5 | 91 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.267 | 0.272 | -1.9 | 94 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.297 | 0.325 | -9.4 | 92 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.449 | 0.471 | -4.9 | 95 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.122 | 0.151 | -23.8 | 103 | 0.00 |
| 59 | T | 2-Hexanone | 0.124 | 0.138 | -11.3 | 98 | 0.00 |
| 60 | T | Dibromochloromethane | 0.334 | 0.348 | -4.2 | 96 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.256 | 0.268 | -4.7 | 97 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.427 | 0.460 | -7.7 | 97 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 64 | T | Tetrachloroethene | 0.327 | 0.293 | 10.4 | 86 | 0.00 |
| 65 | PM | Chlorobenzene | 1.026 | 0.973 | 5.2 | 91 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.380 | 0.384 | -1.1 | 95 | 0.00 |
| 67 | C | Ethyl Benzene | 1.801 | 1.748 | 2.9# | 89 | 0.00 |
| 68 | T | m/p-Xylenes | 0.700 | 0.692 | 1.1 | 89 | 0.00 |
| 69 | T | o-Xylene | 0.643 | 0.634 | 1.4 | 89 | 0.00 |
| 70 | T | Styrene | 1.106 | 1.141 | -3.2 | 92 | 0.00 |
| 71 | P | Bromoform | 0.196 | 0.204 | -4.1 | 99 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 73 | T | Isopropylbenzene | 3.564 | 3.421 | 4.0 | 88 | 0.00 |
| 74 | T | N-amyl acetate | 0.778 | 0.787 | -1.2 | 95 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.657 | 0.668 | -1.7 | 100 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.491 | 0.547 | -11.4 | 109 | 0.00 |
| 77 | T | Bromobenzene | 0.839 | 0.815 | 2.9 | 94 | 0.00 |
| 78 | T | n-propylbenzene | 4.475 | 4.223 | 5.6 | 87 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.584 | 2.468 | 4.5 | 90 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.019 | 2.940 | 2.6 | 90 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.204 | 0.203 | 0.5 | 94 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.708 | 2.600 | 4.0 | 90 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.545 | 2.369 | 6.9 | 86 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.983 | 2.945 | 1.3 | 92 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.886 | 3.633 | 6.5 | 87 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.167 | 3.018 | 4.7 | 88 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.691 | 1.621 | 4.1 | 93 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.707 | 1.609 | 5.7 | 93 | 0.00 |
| 89 | T | n-Butylbenzene | 3.018 | 2.803 | 7.1 | 85 | 0.00 |
| 90 | T | Hexachloroethane | 0.655 | 0.620 | 5.3 | 92 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.463 | 1.440 | 1.6 | 95 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.101 | 0.099 | 2.0 | 98 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.831 | 0.804 | 3.2 | 90 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.468 | 0.416 | 11.1 | 89 | 0.00 |
| 95 | T | Naphthalene | 1.466 | 1.557 | -6.2 | 98 | 0.00 |

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| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.737 | 0.732 | 0.7 | 93 | 0.00 |

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