Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY092723\
Data File : VY015720.D
Acq On : 27 Sep 2023 09:32
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Sep 28 00:43:09 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y091923S.M
Quant Title : SW846 8260
QLast Update : Wed Sep 20 01:39:40 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 | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 100 | 0.01 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 49.234 | 1.5 | 90 | 0.01 |
| 3 | P | Chloromethane | 50.000 | 48.166 | 3.7 | 89 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 51.383 | -2.8# | 94 | 0.01 |
| 5 | T | Bromomethane | 50.000 | 44.240 | 11.5 | 89 | 0.02 |
| 6 | T | Chloroethane | 50.000 | 49.807 | 0.4 | 92 | 0.01 |
| 7 | T | Trichlorofluoromethane | 50.000 | 54.878 | -9.8 | 105 | 0.01 |
| 8 | T | Diethyl Ether | 50.000 | 48.351 | 3.3 | 92 | 0.01 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 50.968 | -1.9 | 97 | 0.01 |
| 10 | T | Methyl Iodide | 50.000 | 45.178 | 9.6 | 86 | 0.01 |
| 11 | T | Tert butyl alcohol | 250.000 | 250.659 | -0.3 | 106 | 0.05 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 50.334 | -0.7# | 96 | 0.01 |
| 13 | T | Acrolein | 250.000 | 228.312 | 8.7 | 90 | 0.02 |
| 14 | T | Allyl chloride | 50.000 | 48.452 | 3.1 | 91 | 0.01 |
| 15 | T | Acrylonitrile | 250.000 | 230.850 | 7.7 | 92 | 0.02 |
| 16 | T | Acetone | 250.000 | 281.434 | -12.6 | 116 | 0.03 |
| 17 | T | Carbon Disulfide | 50.000 | 48.079 | 3.8 | 86 | 0.01 |
| 18 | T | Methyl Acetate | 50.000 | 47.181 | 5.6 | 92 | 0.02 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 49.238 | 1.5 | 94 | 0.02 |
| 20 | T | Methylene Chloride | 50.000 | 51.676 | -3.4 | 101 | 0.02 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 49.659 | 0.7 | 91 | 0.02 |
| 22 | T | Diisopropyl ether | 50.000 | 49.048 | 1.9 | 91 | 0.02 |
| 23 | T | Vinyl Acetate | 250.000 | 237.933 | 4.8 | 90 | 0.02 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 49.100 | 1.8 | 93 | 0.02 |
| 25 | T | 2-Butanone | 250.000 | 244.054 | 2.4 | 103 | 0.02 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 49.217 | 1.6 | 101 | 0.02 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 49.175 | 1.7 | 93 | 0.02 |
| 28 | T | Bromochloromethane | 50.000 | 46.882 | 6.2 | 91 | 0.02 |
| 29 | T | Tetrahydrofuran | 250.000 | 226.282 | 9.5 | 90 | 0.02 |
| 30 | C | Chloroform | 50.000 | 49.222 | 1.6# | 95 | 0.02 |
| 31 | T | Cyclohexane | 50.000 | 46.648 | 6.7 | 92 | 0.01 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 51.357 | -2.7 | 98 | 0.02 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 51.197 | -2.4 | 112 | 0.01 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 96 | 0.01 |
| 35 | S | Dibromofluoromethane | 50.000 | 53.748 | -7.5 | 110 | 0.01 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 51.251 | -2.5 | 95 | 0.01 |
| 37 | T | Ethyl Acetate | 50.000 | 49.970 | 0.1 | 97 | 0.02 |
| 38 | T | Carbon Tetrachloride | 50.000 | 52.767 | -5.5 | 98 | 0.02 |
| 39 | T | Methylcyclohexane | 50.000 | 51.268 | -2.5 | 94 | 0.01 |
| 40 | TM | Benzene | 50.000 | 50.582 | -1.2 | 93 | 0.02 |
| 41 | T | Methacrylonitrile | 50.000 | 43.448 | 13.1 | 94 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 49.707 | 0.6 | 93 | 0.01 |
| 43 | T | Isopropyl Acetate | 50.000 | 49.307 | 1.4 | 94 | 0.02 |
| 44 | TM | Trichloroethene | 50.000 | 51.079 | -2.2 | 94 | 0.01 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 50.483 | -1.0# | 92 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 49.835 | 0.3 | 92 | 0.02 |
| 47 | T | Bromodichloromethane | 50.000 | 51.279 | -2.6 | 95 | 0.01 |
| 48 | T | Methyl methacrylate | 50.000 | 49.018 | 2.0 | 92 | 0.01 |

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ALS Vial : 2 Sample Multiplier: 1

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

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Quant Title : SW846 8260
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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 | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 1015.932 | -1.6 | 100 | 0.04 |
| 50 | S | Toluene-d8 | 50.000 | 56.571 | -13.1 | 122 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 245.123 | 2.0 | 93 | 0.00 |
| 52 | CM | Toluene | 50.000 | 50.752 | -1.5# | 92 | 0.01 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 50.696 | -1.4 | 93 | 0.01 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 50.283 | -0.6 | 93 | 0.01 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 49.782 | 0.4 | 93 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 51.113 | -2.2 | 93 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 50.050 | -0.1 | 93 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 235.943 | 5.6 | 94 | 0.01 |
| 59 | T | 2-Hexanone | 250.000 | 260.238 | -4.1 | 100 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 50.891 | -1.8 | 94 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 49.021 | 2.0 | 93 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 53.325 | -6.7 | 112 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 94 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 53.535 | -7.1 | 97 | 0.01 |
| 65 | PM | Chlorobenzene | 50.000 | 50.824 | -1.6 | 93 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 52.152 | -4.3 | 94 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 52.056 | -4.1# | 93 | 0.01 |
| 68 | T | m/p-Xylenes | 100.000 | 104.076 | -4.1 | 93 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 52.637 | -5.3 | 94 | 0.00 |
| 70 | T | Styrene | 50.000 | 52.861 | -5.7 | 93 | 0.00 |
| 71 | P | Bromoform | 50.000 | 53.057 | -6.1 | 96 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 94 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 51.937 | -3.9 | 95 | 0.01 |
| 74 | T | N-amyl acetate | 50.000 | 51.060 | -2.1 | 92 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 49.840 | 0.3 | 95 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 50.176 | -0.4 | 91 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 50.914 | -1.8 | 94 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 51.806 | -3.6 | 93 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 51.095 | -2.2 | 92 | 0.01 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 51.864 | -3.7 | 94 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 51.536 | -3.1 | 94 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 51.182 | -2.4 | 92 | 0.01 |
| 83 | T | tert-Butylbenzene | 50.000 | 53.018 | -6.0 | 96 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 51.785 | -3.6 | 92 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 52.354 | -4.7 | 94 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 52.154 | -4.3 | 93 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 51.045 | -2.1 | 93 | 0.01 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 50.646 | -1.3 | 92 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 51.536 | -3.1 | 92 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 52.566 | -5.1 | 95 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 51.389 | -2.8 | 93 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 49.504 | 1.0 | 96 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 51.204 | -2.4 | 92 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 48.929 | 2.1 | 87 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 51.399 | -2.8 | 92 | 0.00 |

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| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 50.609 | -1.2 | 91 | 0.00 |

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