# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD092520\
Data File : VD066864.D
Acq On : 25 Sep 2020 10:36
Operator : VA/SY
Sample : VSTDCCC050
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Sep 26 03:08:38 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D092220S.M
Quant Title : SW846 8260
QLast Update : Wed Sep 23 01:34:05 2020
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 | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 97 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 49.904 | 0.2 | 99 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 43.716 | 12.6 | 95 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 47.118 | 5.8# | 98 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 47.907 | 4.2 | 99 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 45.500 | 9.0 | 94 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 46.728 | 6.5 | 97 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 47.598 | 4.8 | 90 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 47.529 | 4.9 | 99 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 45.506 | 9.0 | 86 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 221.196 | 11.5 | 84 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 47.626 | 4.7# | 93 | 0.00 |
| 13 | T | Acrolein | 250.000 | 282.304 | -12.9 | 112 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 47.629 | 4.7 | 91 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 240.270 | 3.9 | 90 | 0.00 |
| 16 | T | Acetone | 250.000 | 260.195 | -4.1 | 95 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 46.107 | 7.8 | 91 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 50.190 | -0.4 | 93 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 49.618 | 0.8 | 92 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 49.389 | 1.2 | 92 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 49.025 | 2.0 | 96 | -0.01 |
| 22 | T | Diisopropyl ether | 50.000 | 49.783 | 0.4 | 92 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 241.267 | 3.5 | 89 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 46.578 | 6.8 | 91 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 241.273 | 3.5 | 90 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 46.467 | 7.1 | 94 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 49.133 | 1.7 | 93 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 49.864 | 0.3 | 93 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 254.179 | -1.7 | 94 | 0.00 |
| 30 | C | Chloroform | 50.000 | 47.285 | 5.4# | 94 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 45.866 | 8.3 | 94 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 49.368 | 1.3 | 97 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 47.356 | 5.3 | 95 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 93 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 50.717 | -1.4 | 95 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 51.808 | -3.6 | 96 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 53.441 | -6.9 | 91 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 52.079 | -4.2 | 98 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 53.617 | -7.2 | 96 | 0.00 |
| 40 | TM | Benzene | 50.000 | 51.756 | -3.5 | 94 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 52.807 | -5.6 | 95 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 50.606 | -1.2 | 94 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 50.810 | -1.6 | 90 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 51.419 | -2.8 | 96 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 51.160 | -2.3# | 93 | 0.00 |

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

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 50.000 | 52.350 | -4.7 | 93 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 52.136 | -4.3 | 96 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 55.715 | -11.4 | 99 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 1219.884 | -22.0# | 104 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 53.333 | -6.7 | 96 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 270.168 | -8.1 | 93 | 0.00 |
| 52 | CM | Toluene | 50.000 | 53.327 | -6.7# | 96 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 53.520 | -7.0 | 93 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 53.425 | -6.8 | 95 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 52.300 | -4.6 | 97 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 55.024 | -10.0 | 92 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 53.639 | -7.3 | 97 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 243.584 | 2.6 | 92 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 284.268 | -13.7 | 95 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 52.952 | -5.9 | 97 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 53.843 | -7.7 | 96 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 53.981 | -8.0 | 101 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 95 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 53.290 | -6.6 | 104 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 51.497 | -3.0 | 98 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 51.888 | -3.8 | 97 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 53.691 | -7.4# | 98 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 110.384 | -10.4 | 100 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 53.760 | -7.5 | 97 | 0.00 |
| 70 | T | Styrene | 50.000 | 55.087 | -10.2 | 98 | 0.00 |
| 71 | P | Bromoform | 50.000 | 53.620 | -7.2 | 99 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 97 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 53.796 | -7.6 | 98 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 52.038 | -4.1 | 92 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 51.376 | -2.8 | 97 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 58.996 | -18.0 | 113 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 51.826 | -3.7 | 97 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 53.994 | -8.0 | 100 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 52.024 | -4.0 | 99 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 54.329 | -8.7 | 101 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 53.959 | -7.9 | 95 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 52.562 | -5.1 | 99 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 54.602 | -9.2 | 101 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 54.406 | -8.8 | 101 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 54.458 | -8.9 | 102 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 56.147 | -12.3 | 103 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 52.388 | -4.8 | 101 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 51.369 | -2.7 | 101 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 54.543 | -9.1 | 101 | 0.00 |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 90 | T | Hexachloroethane | 50.000 | 51.460 | -2.9 | 100 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 52.134 | -4.3 | 101 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.388 | -0.8 | 96 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 53.717 | -7.4 | 101 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 53.530 | -7.1 | 102 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 55.592 | -11.2 | 96 | 0.00 |
| 96 | T | 1,2,3-Trichlorobenzene | 50.000 | 54.332 | -8.7 | 99 | 0.00 |

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