# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\vv042020\
Data File : VY002425.D
Acq On : 20 Apr 2020 16:14
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00G/5ML/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_Y
**ClientSampleId :** ICVVY042020

Quant Time: Apr 21 03:30:32 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y042020S.M
Quant Title : SW846 8260
QLast Update : Mon Apr 20 15:14:11 2020
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 | 111 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 52.857 | -5.7 | 112 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 48.268 | 3.5 | 108 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 50.368 | -0.7# | 107 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 49.873 | 0.3 | 110 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 48.931 | 2.1 | 109 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 50.986 | -2.0 | 117 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 49.438 | 1.1 | 110 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 51.258 | -2.5 | 115 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 53.753 | -7.5 | 111 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 253.781 | -1.5 | 126 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 49.867 | 0.3# | 111 | 0.00 |
| 13 | T | Acrolein | 250.000 | 279.861 | -11.9 | 108 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 53.022 | -6.0 | 120 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 253.520 | -1.4 | 113 | 0.00 |
| 16 | T | Acetone | 250.000 | 320.889 | -28.4# | 135 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 51.427 | -2.9 | 113 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 50.021 | -0.0 | 117 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 50.489 | -1.0 | 112 | -0.01 |
| 20 | T | Methylene Chloride | 50.000 | 47.107 | 5.8 | 112 | -0.01 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 50.164 | -0.3 | 112 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 51.769 | -3.5 | 119 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 265.315 | -6.1 | 118 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 50.874 | -1.7 | 115 | -0.01 |
| 25 | T | 2-Butanone | 250.000 | 282.237 | -12.9 | 126 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 52.012 | -4.0 | 119 | -0.01 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 49.085 | 1.8 | 110 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 48.610 | 2.8 | 115 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 261.855 | -4.7 | 118 | 0.00 |
| 30 | C | Chloroform | 50.000 | 49.869 | 0.3# | 114 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 49.690 | 0.6 | 120 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 51.275 | -2.5 | 116 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 53.111 | -6.2 | 123 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 112 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 54.460 | -8.9 | 124 | -0.01 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 51.250 | -2.5 | 116 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 53.032 | -6.1 | 118 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 51.021 | -2.0 | 114 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 51.033 | -2.1 | 115 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.177 | -0.4 | 113 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 58.222 | -16.4 | 138 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 50.855 | -1.7 | 114 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 53.069 | -6.1 | 121 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 49.216 | 1.6 | 109 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 50.420 | -0.8# | 116 | 0.00 |

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ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_Y
**ClientSampleId :** ICVVY042020

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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) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 50.000 | 49.870 | 0.3 | 111 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 51.605 | -3.2 | 115 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 55.045 | -10.1 | 121 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 932.443 | 6.8 | 103 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 51.493 | -3.0 | 120 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 270.833 | -8.3 | 121 | 0.00 |
| 52 | CM | Toluene | 50.000 | 49.388 | 1.2# | 112 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 51.490 | -3.0 | 114 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 51.458 | -2.9 | 114 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 49.567 | 0.9 | 112 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 52.311 | -4.6 | 116 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 49.915 | 0.2 | 113 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 247.497 | 1.0 | 110 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 278.408 | -11.4 | 125 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 49.998 | 0.0 | 111 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 50.460 | -0.9 | 113 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 52.829 | -5.7 | 124 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 111 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 48.689 | 2.6 | 108 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 49.934 | 0.1 | 112 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 50.585 | -1.2 | 112 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 49.856 | 0.3# | 112 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 100.334 | -0.3 | 112 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 50.551 | -1.1 | 113 | 0.00 |
| 70 | T | Styrene | 50.000 | 49.836 | 0.3 | 110 | 0.00 |
| 71 | P | Bromoform | 50.000 | 51.551 | -3.1 | 113 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 108 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 51.468 | -2.9 | 112 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 55.959 | -11.9 | 121 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 54.808 | -9.6 | 122 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 54.509 | -9.0 | 115 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.948 | 0.1 | 109 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 51.297 | -2.6 | 113 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 51.571 | -3.1 | 114 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 51.826 | -3.7 | 114 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 52.993 | -6.0 | 113 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 51.795 | -3.6 | 115 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 51.346 | -2.7 | 113 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 51.501 | -3.0 | 113 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 51.371 | -2.7 | 112 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 50.997 | -2.0 | 111 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 50.319 | -0.6 | 111 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 49.505 | 1.0 | 109 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 52.043 | -4.1 | 114 | 0.00 |

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

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 50.000 | 51.591 | -3.2 | 113 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 49.433 | 1.1 | 109 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.990 | -2.0 | 115 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 49.273 | 1.5 | 109 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 49.234 | 1.5 | 109 | 0.00 |
| 95 T | Naphthalene | 50.000 | 50.567 | -1.1 | 110 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 48.562 | 2.9 | 107 | 0.00 |

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