# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070919\
Data File : VX010764.D
Acq On : 09 Jul 2019 20:28
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_X
**LabSampleId :** VSTDCCC050

Quant Time: Jul 10 04:51:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 03:31:56 2019
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 | 69 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 60.659 | -21.3# | 87 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 56.765 | -13.5 | 82 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 54.577 | -9.2# | 81 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 54.987 | -10.0 | 82 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 57.833 | -15.7 | 83 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 58.248 | -16.5 | 83 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 57.876 | -15.8 | 82 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 53.924 | -7.8 | 78 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 49.235 | 1.5 | 66 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 221.705 | 11.3 | 65 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 54.237 | -8.5# | 77 | 0.00 |
| 13 | T | Acrolein | 250.000 | 205.043 | 18.0 | 61 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 54.997 | -10.0 | 77 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 279.335 | -11.7 | 78 | 0.00 |
| 16 | T | Acetone | 250.000 | 229.530 | 8.2 | 61 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 48.517 | 3.0 | 69 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 59.146 | -18.3 | 84 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 55.394 | -10.8 | 78 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 54.341 | -8.7 | 78 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 52.639 | -5.3 | 75 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 56.439 | -12.9 | 80 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 287.072 | -14.8 | 78 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 55.435 | -10.9 | 78 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 265.147 | -6.1 | 72 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 45.355 | 9.3 | 65 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 53.436 | -6.9 | 76 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 48.648 | 2.7 | 70 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 276.617 | -10.6 | 77 | 0.00 |
| 30 | C | Chloroform | 50.000 | 55.276 | -10.6# | 79 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 54.016 | -8.0 | 76 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 54.608 | -9.2 | 77 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 52.897 | -5.8 | 74 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 71 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 50.778 | -1.6 | 71 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 53.085 | -6.2 | 77 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 55.535 | -11.1 | 77 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 51.212 | -2.4 | 72 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 51.199 | -2.4 | 74 | 0.00 |
| 40 | TM | Benzene | 50.000 | 53.305 | -6.6 | 76 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 55.770 | -11.5 | 79 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 57.608 | -15.2 | 80 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 54.571 | -9.1 | 77 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 51.519 | -3.0 | 74 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 53.241 | -6.5# | 77 | 0.00 |

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**Instrument :** MSVOA_X
**LabSampleId :** VSTDCCC050

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 03:31:56 2019
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) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 50.000 | 53.579 | -7.2 | 76 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 52.740 | -5.5 | 74 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 56.992 | -14.0 | 79 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 989.077 | 1.1 | 70 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 48.878 | 2.2 | 68 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 284.731 | -13.9 | 80 | 0.00 |
| 52 | CM | Toluene | 50.000 | 53.149 | -6.3# | 76 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 50.703 | -1.4 | 71 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 52.423 | -4.8 | 73 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 54.103 | -8.2 | 76 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 54.243 | -8.5 | 75 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 54.325 | -8.7 | 77 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 240.843 | 3.7 | 66 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 279.349 | -11.7 | 77 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 50.787 | -1.6 | 71 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 54.233 | -8.5 | 77 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 51.965 | -3.9 | 72 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 71 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 48.321 | 3.4 | 72 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 52.211 | -4.4 | 76 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 53.136 | -6.3 | 74 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 53.543 | -7.1# | 77 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 107.696 | -7.7 | 77 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 53.180 | -6.4 | 77 | 0.00 |
| 70 | T | Styrene | 50.000 | 54.951 | -9.9 | 77 | 0.00 |
| 71 | P | Bromoform | 50.000 | 48.865 | 2.3 | 66 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 75 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 50.736 | -1.5 | 78 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 55.506 | -11.0 | 81 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 51.248 | -2.5 | 78 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 51.425 | -2.8 | 77 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.513 | 1.0 | 77 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 52.117 | -4.2 | 78 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 51.011 | -2.0 | 78 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 51.715 | -3.4 | 77 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 43.099 | 13.8 | 64 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 52.365 | -4.7 | 78 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 50.625 | -1.3 | 77 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 52.847 | -5.7 | 78 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 51.366 | -2.7 | 77 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 51.361 | -2.7 | 77 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 50.166 | -0.3 | 77 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 49.633 | 0.7 | 78 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 52.271 | -4.5 | 77 | 0.00 |

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QLast Update : Thu Jun 20 03:31:56 2019
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) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 50.000 | 47.143 | 5.7 | 68 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 50.194 | -0.4 | 78 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.651 | 2.7 | 76 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 49.823 | 0.4 | 75 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 48.198 | 3.6 | 73 | 0.00 |
| 95 T | Naphthalene | 50.000 | 51.165 | -2.3 | 76 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 50.652 | -1.3 | 76 | 0.00 |

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