# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX020720\
Data File : VX014862.D
Acq On : 07 Feb 2020 10:37
Operator : JC/SP
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_X
**LabSampleId :** VSTDCCC020

Quant Time: Feb 07 22:30:08 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jan 15 12:41:12 2020
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Bromochloromethane | 30.000 | 30.000 | 0.0 | 94 | 0.00 |
| 2 | M | Dichlorodifluoromethane | 20.000 | 21.097 | -5.5 | 98 | 0.00 |
| 3 | M | Chloromethane | 20.000 | 18.342 | 8.3 | 86 | 0.00 |
| 4 | M | Vinyl Chloride | 20.000 | 19.187 | 4.1 | 91 | 0.00 |
| 5 | M | Bromomethane | 20.000 | 20.427 | -2.1 | 115 | 0.01 |
| 6 | M | Chloroethane | 20.000 | 19.040 | 4.8 | 89 | 0.02 |
| 7 | M | Trichlorofluoromethane | 20.000 | 21.753 | -8.8 | 108 | 0.01 |
| 8 | T | Diethyl Ether | 20.000 | 20.320 | -1.6 | 102 | 0.00 |
| 9 | | 1,1,2-Trichlorotrifluoroeth | 20.000 | 21.607 | -8.0 | 105 | 0.01 |
| 10 | M | 1,1-Dichloroethene | 20.000 | 20.602 | -3.0 | 103 | 0.00 |
| 11 | | Methyl Iodide | 20.000 | 19.294 | 3.5 | 99 | 0.00 |
| 12 | | Methyl Acetate | 20.000 | 19.924 | 0.4 | 96 | 0.00 |
| 13 | M | Acrolein | 100.000 | 88.994 | 11.0 | 87 | 0.00 |
| 14 | M | Acrylonitrile | 100.000 | 94.015 | 6.0 | 90 | 0.00 |
| 15 | M | Acetone | 100.000 | 79.529 | 20.5 | 73 | 0.00 |
| 16 | M | Carbon Disulfide | 20.000 | 19.324 | 3.4 | 98 | 0.00 |
| 17 | | Allyl chloride | 20.000 | 18.946 | 5.3 | 95 | 0.00 |
| 18 | M | Methylene Chloride | 20.000 | 20.376 | -1.9 | 99 | 0.00 |
| 19 | M | trans-1,2-Dichloroethene | 20.000 | 20.696 | -3.5 | 103 | 0.00 |
| 20 | T | Diisopropyl ether | 20.000 | 20.103 | -0.5 | 98 | 0.00 |
| 21 | M | 1,1-Dichloroethane | 20.000 | 20.182 | -0.9 | 99 | 0.00 |
| 22 | M | cis-1,2-Dichloroethene | 20.000 | 21.003 | -5.0 | 105 | 0.00 |
| 23 | M | tert-Butyl Alcohol | 100.000 | 98.978 | 1.0 | 100 | -0.03 |
| 24 | M | Methyl tert-Butyl Ether | 20.000 | 21.799 | -9.0 | 107 | 0.00 |
| 25 | M | Chloroform | 20.000 | 20.922 | -4.6 | 104 | 0.00 |
| 26 | | Cyclohexane | 20.000 | 19.738 | 1.3 | 98 | 0.00 |
| 27 | s | 1,2-Dichloroethane-d4 | 30.000 | 30.566 | -1.9 | 96 | 0.00 |
| 28 | I | 1,4-Difluorobenzene | 30.000 | 30.000 | 0.0 | 98 | 0.00 |
| 29 | | 1,1-Dichloropropene | 20.000 | 20.749 | -3.7 | 106 | 0.00 |
| 30 | M | 2-Butanone | 100.000 | 88.005 | 12.0 | 86 | 0.00 |
| 31 | | 2,2-Dichloropropane | 20.000 | 22.156 | -10.8 | 114 | 0.00 |
| 32 | M | 1,1,1-Trichloroethane | 20.000 | 21.371 | -6.9 | 110 | 0.00 |
| 33 | M | Carbon Tetrachloride | 20.000 | 21.517 | -7.6 | 112 | 0.00 |
| 34 | M | Benzene | 20.000 | 19.999 | 0.0 | 100 | 0.00 |
| 35 | | Methacrylonitrile | 20.000 | 18.685 | 6.6 | 94 | 0.00 |
| 36 | M | 1,2-Dichloroethane | 20.000 | 20.869 | -4.3 | 104 | 0.00 |
| 37 | M | Trichloroethene | 20.000 | 20.935 | -4.7 | 106 | 0.00 |
| 38 | | Methylcyclohexane | 20.000 | 20.757 | -3.8 | 106 | 0.00 |
| 39 | M | 1,2-Dichloropropane | 20.000 | 19.414 | 2.9 | 98 | 0.00 |
| 40 | | Dibromomethane | 20.000 | 20.413 | -2.1 | 104 | 0.00 |
| 41 | M | Bromodichloromethane | 20.000 | 20.303 | -1.5 | 106 | 0.00 |
| 42 | M | Vinyl Acetate | 100.000 | 98.467 | 1.5 | 100 | 0.00 |
| 43 | | Ethyl Acetate | 20.000 | 18.884 | 5.6 | 93 | 0.00 |
| 44 | | Isopropyl Acetate | 20.000 | 19.566 | 2.2 | 100 | 0.00 |
| 45 | T | 1,4-Dioxane | 400.000 | 387.890 | 3.0 | 95 | 0.00 |

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Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_X
**LabSampleId :** VSTDCCC020

Quant Time: Feb 07 22:30:08 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X011520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | | Methyl methacrylate | 20.000 | 19.461 | 2.7 | 100 | 0.00 |
| 47 | | n-amyl Acetate | 20.000 | 19.438 | 2.8 | 105 | 0.00 |
| 48 | M | t-1,3-Dichloropropene | 20.000 | 21.319 | -6.6 | 111 | 0.00 |
| 49 | T | cis-1,3-Dichloropropene | 20.000 | 20.792 | -4.0 | 108 | 0.00 |
| 50 | M | 1,1,2-Trichloroethane | 20.000 | 20.581 | -2.9 | 103 | 0.00 |
| 51 | | Ethyl methacrylate | 20.000 | 19.744 | 1.3 | 105 | 0.00 |
| 52 | | 1,3-Dichloropropane | 20.000 | 20.394 | -2.0 | 104 | 0.00 |
| 53 | M | Dibromochloromethane | 20.000 | 21.072 | -5.4 | 111 | 0.00 |
| 54 | M | 1,2-Dibromoethane | 20.000 | 21.095 | -5.5 | 106 | 0.00 |
| 55 | M | 2-Chloroethyl vinyl ether | 100.000 | 96.194 | 3.8 | 99 | 0.00 |
| 56 | M | Bromoform | 20.000 | 20.912 | -4.6 | 110 | 0.00 |
| 57 | I | Chlorobenzene-d5 | 30.000 | 30.000 | 0.0 | 98 | 0.00 |
| 58 | M | 4-Methyl-2-Pentanone | 100.000 | 95.294 | 4.7 | 95 | 0.00 |
| 59 | M | 2-Hexanone | 100.000 | 95.817 | 4.2 | 95 | 0.00 |
| 60 | S | 4-Bromofluorobenzene | 30.000 | 30.306 | -1.0 | 100 | 0.00 |
| 61 | M | Tetrachloroethene | 20.000 | 20.674 | -3.4 | 104 | 0.00 |
| 62 | M | Toluene | 20.000 | 20.537 | -2.7 | 103 | 0.00 |
| 63 | S | Toluene-d8 | 30.000 | 29.459 | 1.8 | 95 | 0.00 |
| 64 | M | Chlorobenzene | 20.000 | 21.218 | -6.1 | 107 | 0.00 |
| 65 | | 1,1,1,2-Tetrachloroethane | 20.000 | 21.340 | -6.7 | 108 | 0.00 |
| 66 | M | Ethyl Benzene | 20.000 | 21.129 | -5.6 | 108 | 0.00 |
| 67 | M | m/p-Xylenes | 40.000 | 41.865 | -4.7 | 106 | 0.00 |
| 68 | M | o-Xylene | 20.000 | 20.882 | -4.4 | 107 | 0.00 |
| 69 | M | Styrene | 20.000 | 20.801 | -4.0 | 108 | 0.00 |
| 70 | | Isopropylbenzene | 20.000 | 21.770 | -8.8 | 112 | 0.00 |
| 71 | M | 1,1,2,2-Tetrachloroethane | 20.000 | 19.649 | 1.8 | 100 | 0.00 |
| 72 | | 1,2,3-Trichloropropane | 20.000 | 20.039 | -0.2 | 102 | 0.00 |
| 73 | | Bromobenzene | 20.000 | 21.797 | -9.0 | 112 | 0.00 |
| 74 | | n-propylbenzene | 20.000 | 21.652 | -8.3 | 113 | 0.00 |
| 75 | | 2-Chlorotoluene | 20.000 | 21.051 | -5.3 | 109 | 0.00 |
| 76 | | 1,3,5-Trimethylbenzene | 20.000 | 21.595 | -8.0 | 111 | 0.00 |
| 77 | | t-1,4-Dichloro-2-butene | 20.000 | 20.381 | -1.9 | 113 | 0.00 |
| 78 | | 4-Chlorotoluene | 20.000 | 21.449 | -7.2 | 111 | 0.00 |
| 79 | | tert-butylbenzene | 20.000 | 22.410 | -12.1 | 117 | 0.00 |
| 80 | | 1,2,4-Trimethylbenzene | 20.000 | 21.536 | -7.7 | 110 | 0.00 |
| 81 | | sec-Butylbenzene | 20.000 | 21.875 | -9.4 | 115 | 0.00 |
| 82 | | p-Isopropyltoluene | 20.000 | 22.207 | -11.0 | 115 | 0.00 |
| 83 | M | 1,3-Dichlorobenzene | 20.000 | 22.271 | -11.4 | 116 | 0.00 |
| 84 | M | 1,4-Dichlorobenzene | 20.000 | 22.492 | -12.5 | 119 | 0.00 |
| 85 | | n-Butylbenzene | 20.000 | 21.666 | -8.3 | 118 | 0.00 |
| 86 | T | Hexachloroethane | 20.000 | 20.763 | -3.8 | 112 | 0.00 |
| 87 | M | 1,2-Dichlorobenzene | 20.000 | 21.423 | -7.1 | 111 | 0.00 |
| 88 | | 1,2-Dibromo-3-Chloropropane | 20.000 | 21.189 | -5.9 | 110 | 0.00 |
| 89 | | 1,2,4-Trichlorobenzene | 20.000 | 23.523 | -17.6 | 126 | 0.00 |
| 90 | | Hexachlorobutadiene | 20.000 | 23.949 | -19.7 | 127 | 0.00 |

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| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 91 M | Naphthalene | 20.000 | 22.614 | -13.1 | 118 | 0.00 |
| 92 | 1,2,3-Trichlorobenzene | 20.000 | 23.231 | -16.2 | 124 | 0.00 |

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