# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX051719\
Data File : VX009651.D
Acq On : 17 May 2019 09:45
Operator : JC/SP
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: May 18 05:10:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 02 06:46:57 2019
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 | 113 | 0.00 |
| 2 | M | Dichlorodifluoromethane | 20.000 | 16.000 | 20.0 | 91 | 0.00 |
| 3 | M | Chloromethane | 20.000 | 17.296 | 13.5 | 99 | 0.00 |
| 4 | M | Vinyl Chloride | 20.000 | 17.445 | 12.8 | 99 | 0.00 |
| 5 | M | Bromomethane | 20.000 | 18.409 | 8.0 | 117 | 0.00 |
| 6 | M | Chloroethane | 20.000 | 17.364 | 13.2 | 96 | 0.00 |
| 7 | M | Trichlorofluoromethane | 20.000 | 18.631 | 6.8 | 107 | 0.00 |
| 8 | T | Diethyl Ether | 20.000 | 18.451 | 7.7 | 106 | 0.00 |
| 9 | | 1,1,2-Trichlorotrifluoroeth | 20.000 | 18.835 | 5.8 | 107 | 0.00 |
| 10 | M | 1,1-Dichloroethene | 20.000 | 18.023 | 9.9 | 103 | 0.00 |
| 11 | | Methyl Iodide | 20.000 | 17.318 | 13.4 | 106 | 0.00 |
| 12 | | Methyl Acetate | 20.000 | 18.209 | 9.0 | 107 | 0.00 |
| 13 | M | Acrolein | 100.000 | 86.654 | 13.3 | 107 | 0.00 |
| 14 | M | Acrylonitrile | 100.000 | 92.686 | 7.3 | 107 | 0.00 |
| 15 | M | Acetone | 100.000 | 106.780 | -6.8 | 119 | 0.00 |
| 16 | M | Carbon Disulfide | 20.000 | 17.479 | 12.6 | 100 | 0.00 |
| 17 | | Allyl chloride | 20.000 | 18.393 | 8.0 | 107 | 0.00 |
| 18 | M | Methylene Chloride | 20.000 | 18.472 | 7.6 | 107 | 0.00 |
| 19 | M | trans-1,2-Dichloroethene | 20.000 | 18.419 | 7.9 | 106 | 0.00 |
| 20 | T | Diisopropyl ether | 20.000 | 18.989 | 5.1 | 109 | 0.00 |
| 21 | M | 1,1-Dichloroethane | 20.000 | 18.767 | 6.2 | 109 | 0.00 |
| 22 | M | cis-1,2-Dichloroethene | 20.000 | 18.518 | 7.4 | 107 | 0.00 |
| 23 | M | tert-Butyl Alcohol | 100.000 | 91.189 | 8.8 | 109 | 0.00 |
| 24 | M | Methyl tert-Butyl Ether | 20.000 | 18.806 | 6.0 | 110 | 0.00 |
| 25 | M | Chloroform | 20.000 | 18.917 | 5.4 | 108 | 0.00 |
| 26 | | Cyclohexane | 20.000 | 18.675 | 6.6 | 106 | 0.00 |
| 27 | s | 1,2-Dichloroethane-d4 | 30.000 | 30.001 | -0.0 | 113 | 0.00 |
| 28 | I | 1,4-Difluorobenzene | 30.000 | 30.000 | 0.0 | 113 | 0.00 |
| 29 | | 1,1-Dichloropropene | 20.000 | 18.978 | 5.1 | 108 | 0.00 |
| 30 | M | 2-Butanone | 100.000 | 97.254 | 2.7 | 111 | 0.00 |
| 31 | | 2,2-Dichloropropane | 20.000 | 18.719 | 6.4 | 108 | 0.00 |
| 32 | M | 1,1,1-Trichloroethane | 20.000 | 18.917 | 5.4 | 112 | 0.00 |
| 33 | M | Carbon Tetrachloride | 20.000 | 18.820 | 5.9 | 109 | 0.00 |
| 34 | M | Benzene | 20.000 | 18.833 | 5.8 | 107 | 0.00 |
| 35 | | Methacrylonitrile | 20.000 | 18.500 | 7.5 | 106 | 0.00 |
| 36 | M | 1,2-Dichloroethane | 20.000 | 19.255 | 3.7 | 110 | 0.00 |
| 37 | M | Trichloroethene | 20.000 | 18.584 | 7.1 | 108 | 0.00 |
| 38 | | Methylcyclohexane | 20.000 | 19.124 | 4.4 | 110 | 0.00 |
| 39 | M | 1,2-Dichloropropane | 20.000 | 19.246 | 3.8 | 111 | 0.00 |
| 40 | | Dibromomethane | 20.000 | 18.764 | 6.2 | 108 | 0.00 |
| 41 | M | Bromodichloromethane | 20.000 | 18.827 | 5.9 | 110 | 0.00 |
| 42 | M | Vinyl Acetate | 100.000 | 96.947 | 3.1 | 110 | 0.00 |
| 43 | | Ethyl Acetate | 20.000 | 18.811 | 5.9 | 105 | 0.00 |
| 44 | | Isopropyl Acetate | 20.000 | 18.690 | 6.5 | 110 | 0.00 |
| 45 | T | 1,4-Dioxane | 400.000 | 370.405 | 7.4 | 108 | 0.00 |

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ALS Vial : 2 Sample Multiplier: 1

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

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X050119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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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 | 18.821 | 5.9 | 109 | 0.00 |
| 47 | | n-amyl Acetate | 20.000 | 18.796 | 6.0 | 111 | 0.00 |
| 48 | M | t-1,3-Dichloropropene | 20.000 | 18.449 | 7.8 | 110 | 0.00 |
| 49 | T | cis-1,3-Dichloropropene | 20.000 | 18.791 | 6.0 | 111 | 0.00 |
| 50 | M | 1,1,2-Trichloroethane | 20.000 | 19.535 | 2.3 | 112 | 0.00 |
| 51 | | Ethyl methacrylate | 20.000 | 18.733 | 6.3 | 109 | 0.00 |
| 52 | | 1,3-Dichloropropane | 20.000 | 19.156 | 4.2 | 110 | 0.00 |
| 53 | M | Dibromochloromethane | 20.000 | 18.478 | 7.6 | 110 | 0.00 |
| 54 | M | 1,2-Dibromoethane | 20.000 | 18.725 | 6.4 | 108 | 0.00 |
| 55 | M | 2-Chloroethyl vinyl ether | 100.000 | 84.573 | 15.4 | 93 | 0.00 |
| 56 | M | Bromoform | 20.000 | 18.384 | 8.1 | 113 | 0.00 |
| 57 | I | Chlorobenzene-d5 | 30.000 | 30.000 | 0.0 | 115 | 0.00 |
| 58 | M | 4-Methyl-2-Pentanone | 100.000 | 94.875 | 5.1 | 110 | 0.00 |
| 59 | M | 2-Hexanone | 100.000 | 96.429 | 3.6 | 111 | 0.00 |
| 60 | S | 4-Bromofluorobenzene | 30.000 | 30.287 | -1.0 | 115 | 0.00 |
| 61 | M | Tetrachloroethene | 20.000 | 19.472 | 2.6 | 112 | 0.00 |
| 62 | M | Toluene | 20.000 | 19.004 | 5.0 | 109 | 0.00 |
| 63 | S | Toluene-d8 | 30.000 | 29.952 | 0.2 | 113 | 0.00 |
| 64 | M | Chlorobenzene | 20.000 | 19.241 | 3.8 | 113 | 0.00 |
| 65 | | 1,1,1,2-Tetrachloroethane | 20.000 | 18.975 | 5.1 | 112 | 0.00 |
| 66 | M | Ethyl Benzene | 20.000 | 19.075 | 4.6 | 110 | 0.00 |
| 67 | M | m/p-Xylenes | 40.000 | 38.273 | 4.3 | 111 | 0.00 |
| 68 | M | o-Xylene | 20.000 | 19.292 | 3.5 | 113 | 0.00 |
| 69 | M | Styrene | 20.000 | 19.004 | 5.0 | 111 | 0.00 |
| 70 | | Isopropylbenzene | 20.000 | 19.303 | 3.5 | 112 | 0.00 |
| 71 | M | 1,1,2,2-Tetrachloroethane | 20.000 | 19.136 | 4.3 | 113 | 0.00 |
| 72 | | 1,2,3-Trichloropropane | 20.000 | 19.024 | 4.9 | 110 | 0.00 |
| 73 | | Bromobenzene | 20.000 | 18.895 | 5.5 | 110 | 0.00 |
| 74 | | n-propylbenzene | 20.000 | 19.707 | 1.5 | 115 | 0.00 |
| 75 | | 2-Chlorotoluene | 20.000 | 19.132 | 4.3 | 111 | 0.00 |
| 76 | | 1,3,5-Trimethylbenzene | 20.000 | 19.559 | 2.2 | 114 | 0.00 |
| 77 | | t-1,4-Dichloro-2-butene | 20.000 | 17.562 | 12.2 | 111 | 0.00 |
| 78 | | 4-Chlorotoluene | 20.000 | 19.439 | 2.8 | 115 | 0.00 |
| 79 | | tert-butylbenzene | 20.000 | 19.208 | 4.0 | 112 | 0.00 |
| 80 | | 1,2,4-Trimethylbenzene | 20.000 | 19.305 | 3.5 | 113 | 0.00 |
| 81 | | sec-Butylbenzene | 20.000 | 19.691 | 1.5 | 116 | 0.00 |
| 82 | | p-Isopropyltoluene | 20.000 | 19.659 | 1.7 | 116 | 0.00 |
| 83 | M | 1,3-Dichlorobenzene | 20.000 | 19.215 | 3.9 | 115 | 0.00 |
| 84 | M | 1,4-Dichlorobenzene | 20.000 | 19.486 | 2.6 | 118 | 0.00 |
| 85 | | n-Butylbenzene | 20.000 | 19.795 | 1.0 | 120 | 0.00 |
| 86 | T | Hexachloroethane | 20.000 | 18.430 | 7.9 | 109 | 0.00 |
| 87 | M | 1,2-Dichlorobenzene | 20.000 | 19.386 | 3.1 | 114 | 0.00 |
| 88 | | 1,2-Dibromo-3-Chloropropane | 20.000 | 19.363 | 3.2 | 115 | 0.00 |
| 89 | | 1,2,4-Trichlorobenzene | 20.000 | 19.657 | 1.7 | 121 | 0.00 |
| 90 | | Hexachlorobutadiene | 20.000 | 20.753 | -3.8 | 126 | 0.00 |

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Max. RRF Dev : 30% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 91 M | Naphthalene | 20.000 | 19.414 | 2.9 | 114 | 0.00 |
| 92 | 1,2,3-Trichlorobenzene | 20.000 | 20.044 | -0.2 | 119 | 0.00 |

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