# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101619\
Data File : VX013091.D
Acq On : 16 Oct 2019 12:41
Operator : JC/SP
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** ICVVX101619

Quant Time: Oct 17 03:15:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X101619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 17 03:05:35 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 | 124 | 0.00 |
| 2 | M | Dichlorodifluoromethane | 20.000 | 18.425 | 7.9 | 117 | 0.00 |
| 3 | M | Chloromethane | 20.000 | 18.479 | 7.6 | 120 | 0.00 |
| 4 | M | Vinyl Chloride | 20.000 | 17.887 | 10.6 | 119 | 0.00 |
| 5 | M | Bromomethane | 20.000 | 24.547 | -22.7 | 130 | 0.00 |
| 6 | M | Chloroethane | 20.000 | 18.470 | 7.7 | 112 | 0.00 |
| 7 | M | Trichlorofluoromethane | 20.000 | 18.148 | 9.3 | 118 | 0.00 |
| 8 | T | Diethyl Ether | 20.000 | 18.245 | 8.8 | 115 | 0.00 |
| 9 | | 1,1,2-Trichlorotrifluoroeth | 20.000 | 18.055 | 9.7 | 120 | 0.00 |
| 10 | M | 1,1-Dichloroethene | 20.000 | 18.420 | 7.9 | 121 | 0.00 |
| 11 | | Methyl Iodide | 20.000 | 14.000 | 30.0 | 100 | 0.00 |
| 12 | | Methyl Acetate | 20.000 | 17.813 | 10.9 | 118 | 0.00 |
| 13 | M | Acrolein | 100.000 | 93.706 | 6.3 | 125 | 0.00 |
| 14 | M | Acrylonitrile | 100.000 | 89.287 | 10.7 | 117 | 0.00 |
| 15 | M | Acetone | 100.000 | 83.333 | 16.7 | 93 | 0.00 |
| 16 | M | Carbon Disulfide | 20.000 | 18.536 | 7.3 | 124 | 0.00 |
| 17 | | Allyl chloride | 20.000 | 17.863 | 10.7 | 118 | 0.00 |
| 18 | M | Methylene Chloride | 20.000 | 17.737 | 11.3 | 115 | 0.00 |
| 19 | M | trans-1,2-Dichloroethene | 20.000 | 18.451 | 7.7 | 119 | 0.00 |
| 20 | T | Diisopropyl ether | 20.000 | 18.430 | 7.9 | 117 | 0.00 |
| 21 | M | 1,1-Dichloroethane | 20.000 | 18.142 | 9.3 | 117 | 0.00 |
| 22 | M | cis-1,2-Dichloroethene | 20.000 | 18.102 | 9.5 | 120 | 0.00 |
| 23 | M | tert-Butyl Alcohol | 100.000 | 88.949 | 11.1 | 118 | 0.00 |
| 24 | M | Methyl tert-Butyl Ether | 20.000 | 18.328 | 8.4 | 118 | 0.00 |
| 25 | M | Chloroform | 20.000 | 18.116 | 9.4 | 116 | 0.00 |
| 26 | | Cyclohexane | 20.000 | 18.314 | 8.4 | 119 | 0.00 |
| 27 | s | 1,2-Dichloroethane-d4 | 30.000 | 29.816 | 0.6 | 123 | 0.00 |
| 28 | I | 1,4-Difluorobenzene | 30.000 | 30.000 | 0.0 | 125 | 0.00 |
| 29 | | 1,1-Dichloropropene | 20.000 | 18.493 | 7.5 | 120 | 0.00 |
| 30 | M | 2-Butanone | 100.000 | 89.616 | 10.4 | 110 | 0.00 |
| 31 | | 2,2-Dichloropropane | 20.000 | 18.535 | 7.3 | 117 | 0.00 |
| 32 | M | 1,1,1-Trichloroethane | 20.000 | 18.410 | 7.9 | 119 | 0.00 |
| 33 | M | Carbon Tetrachloride | 20.000 | 18.118 | 9.4 | 118 | 0.00 |
| 34 | M | Benzene | 20.000 | 18.365 | 8.2 | 116 | 0.00 |
| 35 | | Methacrylonitrile | 20.000 | 17.704 | 11.5 | 114 | 0.00 |
| 36 | M | 1,2-Dichloroethane | 20.000 | 18.520 | 7.4 | 117 | 0.00 |
| 37 | M | Trichloroethene | 20.000 | 18.811 | 5.9 | 121 | 0.00 |
| 38 | | Methylcyclohexane | 20.000 | 19.308 | 3.5 | 127 | 0.00 |
| 39 | M | 1,2-Dichloropropane | 20.000 | 18.589 | 7.1 | 116 | 0.00 |
| 40 | | Dibromomethane | 20.000 | 18.787 | 6.1 | 122 | 0.00 |
| 41 | M | Bromodichloromethane | 20.000 | 18.362 | 8.2 | 119 | 0.00 |
| 42 | M | Vinyl Acetate | 100.000 | 93.961 | 6.0 | 119 | 0.00 |
| 43 | | Ethyl Acetate | 20.000 | 17.271 | 13.6 | 115 | 0.00 |
| 44 | | Isopropyl Acetate | 20.000 | 18.166 | 9.2 | 114 | 0.00 |
| 45 | T | 1,4-Dioxane | 400.000 | 356.361 | 10.9 | 117 | 0.00 |

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Sample : VSTDICV020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** ICVVX101619

Quant Time: Oct 17 03:15:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X101619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 17 03:05:35 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) |
|---|---|---|---|---|---|---|---|
| 46 | | Methyl methacrylate | 20.000 | 18.122 | 9.4 | 119 | 0.00 |
| 47 | | n-amyl Acetate | 20.000 | 18.086 | 9.6 | 123 | 0.00 |
| 48 | M | t-1,3-Dichloropropene | 20.000 | 18.580 | 7.1 | 125 | 0.00 |
| 49 | T | cis-1,3-Dichloropropene | 20.000 | 18.866 | 5.7 | 123 | 0.00 |
| 50 | M | 1,1,2-Trichloroethane | 20.000 | 17.943 | 10.3 | 116 | 0.00 |
| 51 | | Ethyl methacrylate | 20.000 | 18.389 | 8.1 | 122 | 0.00 |
| 52 | | 1,3-Dichloropropane | 20.000 | 18.223 | 8.9 | 115 | 0.00 |
| 53 | M | Dibromochloromethane | 20.000 | 18.001 | 10.0 | 119 | 0.00 |
| 54 | M | 1,2-Dibromoethane | 20.000 | 18.769 | 6.2 | 118 | 0.00 |
| 55 | M | 2-Chloroethyl vinyl ether | 100.000 | 91.557 | 8.4 | 116 | 0.00 |
| 56 | M | Bromoform | 20.000 | 17.641 | 11.8 | 120 | 0.00 |
| 57 | I | Chlorobenzene-d5 | 30.000 | 30.000 | 0.0 | 128 | 0.00 |
| 58 | M | 4-Methyl-2-Pentanone | 100.000 | 89.492 | 10.5 | 115 | 0.00 |
| 59 | M | 2-Hexanone | 100.000 | 89.567 | 10.4 | 114 | 0.00 |
| 60 | S | 4-Bromofluorobenzene | 30.000 | 29.450 | 1.8 | 127 | 0.00 |
| 61 | M | Tetrachloroethene | 20.000 | 18.474 | 7.6 | 112 | 0.00 |
| 62 | M | Toluene | 20.000 | 18.672 | 6.6 | 120 | 0.00 |
| 63 | S | Toluene-d8 | 30.000 | 29.820 | 0.6 | 125 | 0.00 |
| 64 | M | Chlorobenzene | 20.000 | 18.741 | 6.3 | 122 | 0.00 |
| 65 | | 1,1,1,2-Tetrachloroethane | 20.000 | 17.826 | 10.9 | 115 | 0.00 |
| 66 | M | Ethyl Benzene | 20.000 | 18.487 | 7.6 | 122 | 0.00 |
| 67 | M | m/p-Xylenes | 40.000 | 37.439 | 6.4 | 122 | 0.00 |
| 68 | M | o-Xylene | 20.000 | 18.631 | 6.8 | 122 | 0.00 |
| 69 | M | Styrene | 20.000 | 18.269 | 8.7 | 121 | 0.00 |
| 70 | | Isopropylbenzene | 20.000 | 18.682 | 6.6 | 123 | 0.00 |
| 71 | M | 1,1,2,2-Tetrachloroethane | 20.000 | 17.716 | 11.4 | 116 | 0.00 |
| 72 | | 1,2,3-Trichloropropane | 20.000 | 17.703 | 11.5 | 120 | 0.00 |
| 73 | | Bromobenzene | 20.000 | 18.606 | 7.0 | 125 | 0.00 |
| 74 | | n-propylbenzene | 20.000 | 18.858 | 5.7 | 124 | 0.00 |
| 75 | | 2-Chlorotoluene | 20.000 | 18.398 | 8.0 | 124 | 0.00 |
| 76 | | 1,3,5-Trimethylbenzene | 20.000 | 17.969 | 10.2 | 120 | 0.00 |
| 77 | | t-1,4-Dichloro-2-butene | 20.000 | 17.537 | 12.3 | 128 | 0.00 |
| 78 | | 4-Chlorotoluene | 20.000 | 18.522 | 7.4 | 125 | 0.00 |
| 79 | | tert-butylbenzene | 20.000 | 18.571 | 7.1 | 124 | 0.00 |
| 80 | | 1,2,4-Trimethylbenzene | 20.000 | 18.508 | 7.5 | 122 | 0.00 |
| 81 | | sec-Butylbenzene | 20.000 | 17.869 | 10.7 | 121 | 0.00 |
| 82 | | p-Isopropyltoluene | 20.000 | 18.453 | 7.7 | 127 | 0.00 |
| 83 | M | 1,3-Dichlorobenzene | 20.000 | 18.677 | 6.6 | 123 | 0.00 |
| 84 | M | 1,4-Dichlorobenzene | 20.000 | 18.259 | 8.7 | 124 | 0.00 |
| 85 | | n-Butylbenzene | 20.000 | 18.057 | 9.7 | 125 | 0.00 |
| 86 | T | Hexachloroethane | 20.000 | 17.364 | 13.2 | 120 | 0.00 |
| 87 | M | 1,2-Dichlorobenzene | 20.000 | 18.052 | 9.7 | 121 | 0.00 |
| 88 | | 1,2-Dibromo-3-Chloropropane | 20.000 | 17.679 | 11.6 | 123 | 0.00 |
| 89 | | 1,2,4-Trichlorobenzene | 20.000 | 18.596 | 7.0 | 127 | 0.00 |
| 90 | | Hexachlorobutadiene | 20.000 | 18.121 | 9.4 | 128 | 0.00 |

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Response via : Initial Calibration

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

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 91 M | Naphthalene | 20.000 | 17.753 | 11.2 | 119 | 0.00 |
| 92 | 1,2,3-Trichlorobenzene | 20.000 | 18.751 | 6.2 | 128 | 0.00 |

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