# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111022\
Data File : VX032752.D
Acq On : 11 Nov 2022 02:54
Operator : JC/MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 40 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX111022

Quant Time: Nov 11 05:34:17 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X111022W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 11 05:24:06 2022
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 | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Bromochloromethane | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 2 | M | Dichlorodifluoromethane | 2.655 | 2.819 | -6.2 | 97 | 0.00 |
| 3 | M | Chloromethane | 2.635 | 2.781 | -5.5 | 98 | 0.00 |
| 4 | M | Vinyl Chloride | 2.979 | 3.102 | -4.1 | 96 | 0.00 |
| 5 | M | Bromomethane | 2.645 | 2.866 | -8.4 | 104 | 0.00 |
| 6 | M | Chloroethane | 2.353 | 2.389 | -1.5 | 98 | 0.00 |
| 7 | M | Trichlorofluoromethane | 5.743 | 5.946 | -3.5 | 97 | 0.00 |
| 8 | T | Diethyl Ether | 1.857 | 1.900 | -2.3 | 97 | 0.00 |
| 9 | | 1,1,2-Trichlorotrifluoroeth | 3.055 | 3.098 | -1.4 | 96 | 0.00 |
| 10 | M | 1,1-Dichloroethene | 2.918 | 2.955 | -1.3 | 97 | 0.00 |
| 11 | | Methyl Iodide | 3.138 | 2.785 | 11.2 | 93 | 0.00 |
| 12 | | Methyl Acetate | 4.323 | 4.479 | -3.6 | 98 | 0.00 |
| 13 | M | Acrolein | 0.576 | 0.585 | -1.6 | 102 | 0.00 |
| 14 | M | Acrylonitrile | 1.550 | 1.586 | -2.3 | 99 | 0.00 |
| 15 | M | Acetone | 0.403 | 0.439 | -8.9 | 102 | 0.00 |
| 16 | M | Carbon Disulfide | 7.265 | 7.335 | -1.0 | 100 | 0.00 |
| 17 | | Allyl chloride | 4.637 | 4.649 | -0.3 | 98 | 0.00 |
| 18 | M | Methylene Chloride | 3.366 | 3.422 | -1.7 | 97 | 0.00 |
| 19 | M | trans-1,2-Dichloroethene | 3.215 | 3.270 | -1.7 | 99 | 0.00 |
| 20 | T | Diisopropyl ether | 10.398 | 10.305 | 0.9 | 98 | 0.00 |
| 21 | M | 1,1-Dichloroethane | 5.837 | 5.946 | -1.9 | 97 | 0.00 |
| 22 | M | cis-1,2-Dichloroethene | 3.754 | 3.735 | 0.5 | 97 | 0.00 |
| 23 | M | tert-Butyl Alcohol | 0.503 | 0.597 | -18.7 | 103 | 0.00 |
| 24 | M | Methyl tert-Butyl Ether | 10.450 | 10.441 | 0.1 | 98 | 0.00 |
| 25 | M | Chloroform | 6.510 | 6.501 | 0.1 | 98 | 0.00 |
| 26 | | Cyclohexane | 5.098 | 5.168 | -1.4 | 99 | 0.00 |
| 27 | s | 1,2-Dichloroethane-d4 | 2.894 | 2.890 | 0.1 | 97 | 0.00 |
| 28 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 29 | | 1,1-Dichloropropene | 0.665 | 0.672 | -1.1 | 99 | 0.00 |
| 30 | M | 2-Butanone | 0.310 | 0.327 | -5.5 | 103 | 0.00 |
| 31 | | 2,2-Dichloropropane | 0.569 | 0.539 | 5.3 | 93 | 0.00 |
| 32 | M | 1,1,1-Trichloroethane | 0.837 | 0.838 | -0.1 | 99 | 0.00 |
| 33 | M | Carbon Tetrachloride | 0.735 | 0.718 | 2.3 | 97 | 0.00 |
| 34 | M | Benzene | 1.875 | 1.865 | 0.5 | 97 | 0.00 |
| 35 | | Methacrylonitrile | 0.351 | 0.356 | -1.4 | 101 | 0.00 |
| 36 | M | 1,2-Dichloroethane | 0.772 | 0.774 | -0.3 | 96 | 0.00 |
| 37 | M | Trichloroethene | 0.524 | 0.527 | -0.6 | 98 | 0.00 |
| 38 | | Methylcyclohexane | 0.745 | 0.734 | 1.5 | 97 | 0.00 |
| 39 | M | 1,2-Dichloropropane | 0.475 | 0.471 | 0.8 | 98 | 0.00 |
| 40 | | Dibromomethane | 0.362 | 0.367 | -1.4 | 99 | 0.00 |
| 41 | M | Bromodichloromethane | 0.691 | 0.675 | 2.3 | 98 | 0.00 |
| 42 | M | Vinyl Acetate | 1.192 | 1.190 | 0.2 | 99 | 0.00 |
| 43 | | Ethyl Acetate | 0.624 | 0.650 | -4.2 | 100 | 0.00 |
| 44 | | Isopropyl Acetate | 1.046 | 1.058 | -1.1 | 101 | 0.00 |
| 45 | T | 1,4-Dioxane | 0.010 | 0.011 | -10.0 | 104 | 0.00 |
| 46 | | Methyl methacrylate | 0.526 | 0.526 | 0.0 | 99 | 0.00 |
| 47 | | n-amyl Acetate | 0.930 | 0.955 | -2.7 | 102 | 0.00 |
| 48 | M | t-1,3-Dichloropropene | 0.708 | 0.681 | 3.8 | 99 | 0.00 |

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Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 40 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX111022

Quant Time: Nov 11 05:34:17 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X111022W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 11 05:24:06 2022
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 | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | cis-1,3-Dichloropropene | 0.748 | 0.717 | 4.1 | 97 | 0.00 |
| 50 | M | 1,1,2-Trichloroethane | 0.498 | 0.492 | 1.2 | 100 | 0.00 |
| 51 | | Ethyl methacrylate | 0.744 | 0.729 | 2.0 | 98 | 0.00 |
| 52 | | 1,3-Dichloropropane | 0.814 | 0.817 | -0.4 | 97 | 0.00 |
| 53 | M | Dibromochloromethane | 0.542 | 0.515 | 5.0 | 98 | 0.00 |
| 54 | M | 1,2-Dibromoethane | 0.537 | 0.535 | 0.4 | 101 | 0.00 |
| 55 | M | 2-Chloroethyl vinyl ether | 0.360 | 0.365 | -1.4 | 101 | 0.00 |
| 56 | M | Bromoform | 0.388 | 0.375 | 3.4 | 101 | 0.00 |
| 57 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 58 | M | 4-Methyl-2-Pentanone | 0.587 | 0.613 | -4.4 | 100 | 0.00 |
| 59 | M | 2-Hexanone | 0.432 | 0.461 | -6.7 | 101 | 0.00 |
| 60 | S | 4-Bromofluorobenzene | 0.574 | 0.568 | 1.0 | 100 | 0.00 |
| 61 | M | Tetrachloroethene | 0.419 | 0.416 | 0.7 | 99 | 0.00 |
| 62 | M | Toluene | 1.951 | 1.927 | 1.2 | 98 | 0.00 |
| 63 | S | Toluene-d8 | 1.012 | 1.011 | 0.1 | 99 | 0.00 |
| 64 | M | Chlorobenzene | 1.206 | 1.233 | -2.2 | 101 | 0.00 |
| 65 | | 1,1,1,2-Tetrachloroethane | 0.459 | 0.464 | -1.1 | 100 | 0.00 |
| 66 | M | Ethyl Benzene | 2.189 | 2.189 | 0.0 | 99 | 0.00 |
| 67 | M | m/p-Xylenes | 0.852 | 0.856 | -0.5 | 100 | 0.00 |
| 68 | M | o-Xylene | 0.836 | 0.827 | 1.1 | 98 | 0.00 |
| 69 | M | Styrene | 1.389 | 1.349 | 2.9 | 96 | 0.00 |
| 70 | | Isopropylbenzene | 2.231 | 2.241 | -0.4 | 99 | 0.00 |
| 71 | M | 1,1,2,2-Tetrachloroethane | 0.677 | 0.696 | -2.8 | 100 | 0.00 |
| 72 | | 1,2,3-Trichloropropane | 0.588 | 0.627 | -6.6 | 101 | 0.00 |
| 73 | | Bromobenzene | 0.542 | 0.552 | -1.8 | 101 | 0.00 |
| 74 | | n-propylbenzene | 2.535 | 2.536 | -0.0 | 99 | 0.00 |
| 75 | | 2-Chlorotoluene | 1.535 | 1.556 | -1.4 | 100 | 0.00 |
| 76 | | 1,3,5-Trimethylbenzene | 1.886 | 1.890 | -0.2 | 99 | 0.00 |
| 77 | | t-1,4-Dichloro-2-butene | 0.179 | 0.165 | 7.8 | 97 | 0.00 |
| 78 | | 4-Chlorotoluene | 1.768 | 1.753 | 0.8 | 98 | 0.00 |
| 79 | | tert-butylbenzene | 1.833 | 1.831 | 0.1 | 100 | 0.00 |
| 80 | | 1,2,4-Trimethylbenzene | 1.844 | 1.894 | -2.7 | 100 | 0.00 |
| 81 | | sec-Butylbenzene | 2.207 | 2.233 | -1.2 | 101 | 0.00 |
| 82 | | p-Isopropyltoluene | 1.860 | 1.863 | -0.2 | 99 | 0.00 |
| 83 | M | 1,3-Dichlorobenzene | 0.995 | 1.007 | -1.2 | 99 | 0.00 |
| 84 | M | 1,4-Dichlorobenzene | 0.999 | 1.017 | -1.8 | 100 | 0.00 |
| 85 | | n-Butylbenzene | 1.576 | 1.549 | 1.7 | 98 | 0.00 |
| 86 | T | Hexachloroethane | 0.305 | 0.289 | 5.2 | 99 | 0.00 |
| 87 | M | 1,2-Dichlorobenzene | 0.989 | 1.000 | -1.1 | 100 | 0.00 |
| 88 | | 1,2-Dibromo-3-Chloropropane | 0.144 | 0.148 | -2.8 | 107 | 0.00 |
| 89 | | 1,2,4-Trichlorobenzene | 0.607 | 0.606 | 0.2 | 101 | 0.00 |
| 90 | | Hexachlorobutadiene | 0.244 | 0.257 | -5.3 | 106 | 0.00 |
| 91 | M | Naphthalene | 2.049 | 2.087 | -1.9 | 101 | 0.00 |
| 92 | | 1,2,3-Trichlorobenzene | 0.611 | 0.603 | 1.3 | 97 | 0.00 |

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