

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL111925\  
 Data File : VL043232.D  
 Acq On : 19 Nov 2025 09:31  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Nov 20 00:01:40 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL111825AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Nov 19 01:11:25 2025  
 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          | 10.000 | 10.000 | 0.0   | 88    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 11.043 | -10.4 | 103   | 0.00     |
| 3    | Chlorodifluoromethane       | 10.000 | 9.512  | 4.9   | 88    | 0.00     |
| 4    | Chloromethane               | 10.000 | 9.715  | 2.9   | 91    | 0.00     |
| 5 T  | Vinyl Chloride              | 10.000 | 9.253  | 7.5   | 97    | 0.00     |
| 6 T  | Bromomethane                | 10.000 | 10.302 | -3.0  | 101   | 0.00     |
| 7    | Chloroethane                | 10.000 | 9.405  | 6.0   | 96    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 10.888 | -8.9  | 103   | 0.00     |
| 9 T  | Propene                     | 10.000 | 8.583  | 14.2  | 89    | 0.00     |
| 10 T | Heptane                     | 10.000 | 8.367  | 16.3  | 81    | 0.00     |
| 11 T | Trichlorofluoromethane      | 10.000 | 11.922 | -19.2 | 116   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 11.306 | -13.1 | 108   | 0.00     |
| 13   | Ethanol                     | 10.000 | 8.774  | 12.3  | 97    | 0.00     |
| 14 T | Bromoethene                 | 10.000 | 10.756 | -7.6  | 107   | 0.00     |
| 15 T | Acetone                     | 10.000 | 8.429  | 15.7  | 100   | 0.00     |
| 16 T | 1,3-Butadiene               | 10.000 | 9.384  | 6.2   | 93    | 0.00     |
| 17   | tert-Butyl alcohol          | 10.000 | 10.143 | -1.4  | 96    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 10.312 | -3.1  | 103   | 0.00     |
| 19 T | Isopropyl Alcohol           | 10.000 | 9.447  | 5.5   | 96    | 0.00     |
| 20 T | Methylene Chloride          | 10.000 | 11.440 | -14.4 | 103   | 0.00     |
| 21 T | Allyl Chloride              | 10.000 | 9.439  | 5.6   | 92    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 10.253 | -2.5  | 103   | 0.00     |
| 23 T | Vinyl Acetate               | 10.000 | 9.314  | 6.9   | 85    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 10.467 | -4.7  | 100   | 0.00     |
| 25 T | Ethyl Acetate               | 10.000 | 8.821  | 11.8  | 85    | 0.00     |
| 26 T | Hexane                      | 10.000 | 8.986  | 10.1  | 84    | 0.00     |
| 27 T | Carbon Disulfide            | 10.000 | 10.687 | -6.9  | 101   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 10.265 | -2.7  | 99    | 0.00     |
| 29 T | Chloroform                  | 10.000 | 11.166 | -11.7 | 103   | 0.00     |
| 30 T | Cyclohexane                 | 10.000 | 9.707  | 2.9   | 92    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 9.907  | 0.9   | 92    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 11.112 | -11.1 | 104   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0   | 92    | 0.00     |
| 34 T | 2-Butanone                  | 10.000 | 8.659  | 13.4  | 87    | 0.00     |
| 35 T | Carbon Tetrachloride        | 10.000 | 10.900 | -9.0  | 108   | 0.00     |
| 36 T | Benzene                     | 10.000 | 9.400  | 6.0   | 91    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 10.672 | -6.7  | 104   | 0.00     |
| 38 T | Trichloroethene             | 10.000 | 9.902  | 1.0   | 97    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 10.000 | 8.891  | 11.1  | 86    | 0.00     |
| 40 T | 1,4-Dioxane                 | 10.000 | 8.983  | 10.2  | 91    | 0.00     |
| 41 T | Tetrahydrofuran             | 10.000 | 8.223  | 17.8  | 80    | 0.00     |
| 42 T | Bromodichloromethane        | 10.000 | 10.549 | -5.5  | 101   | 0.00     |
| 43   | Methyl Methacrylate         | 10.000 | 8.514  | 14.9  | 86    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 8.730  | 12.7  | 85    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 9.111  | 8.9   | 87    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 10.000 | 8.947  | 10.5  | 86    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 10.000 | 9.736  | 2.6   | 97    | 0.01     |
| 48 T | Dibromochloromethane        | 10.000 | 10.778 | -7.8  | 103   | 0.00     |

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 VSTDCCC010

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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) |
|------|---------------------------|--------|--------|-------|-------|----------|
| 49 T | Bromoform                 | 10.000 | 11.110 | -11.1 | 104   | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 8.290  | 17.1  | 80    | 0.00     |
| 51 T | 2-Hexanone                | 10.000 | 8.339  | 16.6  | 81    | 0.00     |
| 52 T | Tetrachloroethene         | 10.000 | 10.048 | -0.5  | 100   | 0.00     |
| 53 T | Toluene                   | 10.000 | 9.125  | 8.8   | 89    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 10.000 | 10.221 | -2.2  | 98    | 0.00     |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0   | 90    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 10.618 | -6.2  | 104   | 0.00     |
| 57 T | Chlorobenzene             | 10.000 | 9.993  | 0.1   | 95    | 0.00     |
| 58 T | Ethyl Benzene             | 10.000 | 9.726  | 2.7   | 92    | 0.00     |
| 59 T | m/p-Xylene                | 20.000 | 19.905 | 0.5   | 96    | 0.00     |
| 60 T | o-Xylene                  | 10.000 | 10.030 | -0.3  | 98    | 0.00     |
| 61 T | Styrene                   | 10.000 | 9.444  | 5.6   | 88    | 0.00     |
| 62   | Isopropylbenzene          | 10.000 | 10.120 | -1.2  | 98    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 9.693  | 3.1   | 96    | 0.00     |
| 64   | n-propylbenzene           | 10.000 | 10.126 | -1.3  | 98    | 0.00     |
| 65   | tert-Butylbenzene         | 10.000 | 10.080 | -0.8  | 100   | 0.00     |
| 66 T | Benzyl Chloride           | 10.000 | 7.820  | 21.8  | 73    | 0.00     |
| 67   | sec-Butylbenzene          | 10.000 | 10.123 | -1.2  | 101   | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 10.145 | -1.4  | 91    | 0.00     |
| 69   | p-Isopropyltoluene        | 10.000 | 10.227 | -2.3  | 101   | 0.00     |
| 70   | n-Butylbenzene            | 10.000 | 10.380 | -3.8  | 100   | 0.00     |
| 71   | 2-Chlorotoluene           | 10.000 | 10.026 | -0.3  | 97    | 0.00     |
| 72 T | 4-Ethyltoluene            | 10.000 | 10.144 | -1.4  | 98    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 10.255 | -2.6  | 100   | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 10.277 | -2.8  | 102   | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 10.565 | -5.6  | 102   | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 10.686 | -6.9  | 103   | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 10.494 | -4.9  | 104   | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 10.531 | -5.3  | 111   | 0.00     |
| 79 T | Naphthalene               | 10.000 | 10.601 | -6.0  | 97    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 10.199 | -2.0  | 93    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 11.534 | -15.3 | 104   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0