

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL100225\  
 Data File : VL043038.D  
 Acq On : 02 Oct 2025 13:41  
 Operator : SY/MD  
 Sample : VSTDICC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC015

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/03/2025  
 Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:06:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL100225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.774 | 49   | 174781   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.939 | 114  | 521075   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.862 | 117  | 446323   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.361 95 331763 10.318 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.200%

Target Compounds

|                               |       |     |         |        |        | Qvalue |
|-------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.493 | 85  | 417041  | 14.157 | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 1.470 | 51  | 396783  | 13.924 | ppbv   | 100    |
| 4) Chloromethane              | 1.528 | 50  | 152053  | 14.131 | ppbv   | 100    |
| 5) Vinyl Chloride             | 1.573 | 62  | 143710  | 14.073 | ppbv   | 98     |
| 6) Bromomethane               | 1.661 | 94  | 66123   | 14.410 | ppbv   | 97     |
| 7) Chloroethane               | 1.700 | 64  | 58804   | 13.801 | ppbv   | 97     |
| 8) Dichlorotetrafluoroethane  | 1.551 | 85  | 342721  | 14.198 | ppbv   | 100    |
| 9) Propene                    | 1.480 | 41  | 159689  | 13.898 | ppbv   | 97     |
| 10) Heptane                   | 4.956 | 43  | 465543  | 16.450 | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 1.871 | 101 | 430473  | 14.220 | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluo... | 2.130 | 101 | 337263  | 14.145 | ppbv   | 97     |
| 13) Ethanol                   | 1.713 | 45  | 6726    | 14.884 | ppbv   | 94     |
| 14) Bromoethene               | 1.774 | 108 | 123040  | 14.394 | ppbv   | 99     |
| 15) Acetone                   | 1.826 | 43  | 302724  | 12.370 | ppbv   | 100    |
| 16) 1,3-Butadiene             | 1.603 | 39  | 142349  | 14.108 | ppbv   | 99     |
| 17) tert-Butyl alcohol        | 2.030 | 59  | 352251  | 13.608 | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 2.027 | 96  | 150012  | 14.353 | ppbv   | 98     |
| 19) Isopropyl Alcohol         | 1.878 | 45  | 154373  | 13.166 | ppbv   | 98     |
| 20) Methylene Chloride        | 2.053 | 84  | 130116  | 12.181 | ppbv   | 96     |
| 21) Allyl Chloride            | 2.088 | 41  | 223371  | 14.247 | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 2.331 | 96  | 169834  | 14.313 | ppbv   | 96     |
| 23) Vinyl Acetate             | 2.454 | 43  | 60446   | 11.634 | ppbv # | 96     |
| 24) 1,1-Dichloroethane        | 2.399 | 63  | 320234  | 14.237 | ppbv   | 100    |
| 25) Ethyl Acetate             | 2.820 | 43  | 909988  | 14.822 | ppbv   | 100    |
| 26) Hexane                    | 2.813 | 57  | 370003  | 15.667 | ppbv   | 98     |
| 27) Carbon Disulfide          | 2.143 | 76  | 404552  | 14.510 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 2.428 | 73  | 213111  | 14.420 | ppbv   | 99     |
| 29) Chloroform                | 2.836 | 83  | 576414  | 14.316 | ppbv   | 99     |
| 30) Cyclohexane               | 3.836 | 84  | 314603  | 16.212 | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene    | 2.710 | 61  | 363768  | 14.984 | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane     | 3.354 | 97  | 573214  | 14.648 | ppbv   | 100    |
| 34) 2-Butanone                | 2.545 | 43  | 511000  | 14.453 | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 3.745 | 117 | 604277  | 14.095 | ppbv   | 97     |
| 36) Benzene                   | 3.638 | 78  | 748168  | 15.028 | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 3.205 | 62  | 431043  | 14.619 | ppbv   | 100    |
| 38) Trichloroethene           | 4.525 | 130 | 317772  | 15.319 | ppbv   | 99     |
| 39) 1,2-Dichloropropane       | 4.289 | 63  | 269729  | 14.617 | ppbv   | 98     |
| 40) 1,4-Dioxane               | 4.554 | 88  | 120237  | 15.173 | ppbv # | 95     |
| 41) Tetrahydrofuran           | 3.036 | 42  | 295205  | 16.155 | ppbv   | 100    |
| 42) Bromodichloromethane      | 4.464 | 83  | 619944  | 14.890 | ppbv   | 96     |
| 43) Methyl Methacrylate       | 4.852 | 69  | 279674  | 16.923 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 4.616 | 57  | 1251093 | 15.661 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.386 | 75  | 251549  | 16.802 | ppbv   | 97     |

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 5.571  | 75   | 351325   | 16.515 | ppbv  | 100      |
| 47) 1,1,2-Trichloroethane     | 6.555  | 97   | 296142   | 14.428 | ppbv  | 98       |
| 48) Dibromochloromethane      | 7.364  | 129  | 512219   | 15.290 | ppbv  | 100      |
| 49) Bromoform                 | 9.468  | 173  | 449641   | 16.072 | ppbv  | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.713  | 43   | 723710   | 16.786 | ppbv  | 100      |
| 51) 2-Hexanone                | 7.409  | 43   | 562773   | 18.407 | ppbv  | 100      |
| 52) Tetrachloroethene         | 8.205  | 164  | 270386   | 14.575 | ppbv  | 98       |
| 53) Toluene                   | 6.911  | 91   | 858713   | 17.085 | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 7.629  | 107  | 378193   | 15.546 | ppbv  | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 8.908  | 131  | 394995   | 14.519 | ppbv  | 100      |
| 57) Chlorobenzene             | 8.904  | 112  | 670949   | 14.220 | ppbv  | 99       |
| 58) Ethyl Benzene             | 9.338  | 91   | 1190670  | 17.220 | ppbv  | 99       |
| 59) m/p-Xylene                | 9.536  | 91   | 1936045m | 33.184 | ppbv  |          |
| 60) o-Xylene                  | 9.947  | 91   | 969480   | 16.688 | ppbv  | 99       |
| 61) Styrene                   | 9.853  | 104  | 462847   | 19.017 | ppbv  | 100      |
| 62) Isopropylbenzene          | 10.526 | 105  | 1455778  | 16.324 | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.947  | 83   | 593157   | 14.167 | ppbv  | 100      |
| 64) n-propylbenzene           | 10.976 | 120  | 387627   | 16.991 | ppbv  | 95       |
| 65) tert-Butylbenzene         | 11.520 | 119  | 1283802  | 16.175 | ppbv  | 99       |
| 66) Benzyl Chloride           | 11.604 | 91   | 50421    | 16.394 | ppbv  | 99       |
| 67) sec-Butylbenzene          | 11.756 | 105  | 1758282  | 15.875 | ppbv  | 98       |
| 69) p-Isopropyltoluene        | 11.915 | 119  | 1493674  | 16.578 | ppbv  | 99       |
| 70) n-Butylbenzene            | 12.271 | 91   | 1480662  | 17.067 | ppbv  | 98       |
| 71) 2-Chlorotoluene           | 10.889 | 91   | 1085558  | 16.819 | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 11.112 | 105  | 1190551  | 17.218 | ppbv  | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.190 | 105  | 1001678  | 16.745 | ppbv  | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.523 | 105  | 1091026  | 16.160 | ppbv  | 95       |
| 75) 1,3-Dichlorobenzene       | 11.594 | 146  | 665205   | 15.149 | ppbv  | 100      |
| 76) 1,4-Dichlorobenzene       | 11.659 | 146  | 656125   | 15.671 | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 11.934 | 146  | 632662   | 14.465 | ppbv  | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.870 | 225  | 435408   | 14.288 | ppbv  | 100      |
| 79) Naphthalene               | 13.501 | 128  | 887779   | 14.984 | ppbv  | 99       |
| 80) Naphthalene,2-methyl-     | 14.446 | 142  | 421038   | 15.372 | ppbv  | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.429 | 180  | 489642   | 18.818 | ppbv  | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

