

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050725\  
 Data File : VL042512.D  
 Acq On : 07 May 2025 11:37  
 Operator : SY/MD  
 Sample : MDL1 0.45  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL1 0.45

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/08/2025  
 Supervised By :Mahesh Dadoda 05/09/2025

Quant Time: May 08 01:31:36 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 79918    | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 213267   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.885 | 117  | 174659   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 153655 9.489 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.900%

Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 7036   | 0.532 | ppbv   | 98     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 7770   | 0.556 | ppbv   | 96     |
| 4) Chloromethane              | 1.535 | 50  | 3026   | 0.547 | ppbv   | 96     |
| 5) Vinyl Chloride             | 1.580 | 62  | 2950   | 0.530 | ppbv   | 96     |
| 6) Bromomethane               | 1.667 | 94  | 1759   | 0.669 | ppbv # | 61     |
| 7) Chloroethane               | 1.706 | 64  | 1269   | 0.618 | ppbv # | 66     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 5638   | 0.517 | ppbv   | 96     |
| 9) Propene                    | 1.483 | 41  | 2738   | 0.599 | ppbv   | 93     |
| 10) Heptane                   | 4.982 | 43  | 4817m  | 0.406 | ppbv   |        |
| 11) Trichlorofluoromethane    | 1.878 | 101 | 6043   | 0.495 | ppbv   | 90     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 5535   | 0.568 | ppbv   | 96     |
| 13) Ethanol                   | 1.725 | 45  | 778m   | 0.838 | ppbv   |        |
| 14) Bromoethene               | 1.784 | 108 | 1820   | 0.506 | ppbv # | 84     |
| 15) Acetone                   | 1.839 | 43  | 9180   | 0.629 | ppbv   | 96     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 3191   | 0.496 | ppbv   | 96     |
| 17) tert-Butyl alcohol        | 2.046 | 59  | 6807   | 0.530 | ppbv # | 93     |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 2586   | 0.568 | ppbv   | 91     |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 4534   | 0.562 | ppbv # | 95     |
| 20) Methylene Chloride        | 2.065 | 84  | 2560   | 0.584 | ppbv # | 80     |
| 21) Allyl Chloride            | 2.098 | 41  | 4878   | 0.520 | ppbv # | 91     |
| 22) trans-1,2-Dichloroethene  | 2.344 | 96  | 2906   | 0.547 | ppbv   | 82     |
| 23) Vinyl Acetate             | 2.463 | 43  | 7992   | 0.574 | ppbv # | 87     |
| 24) 1,1-Dichloroethane        | 2.408 | 63  | 5580   | 0.515 | ppbv # | 95     |
| 25) Ethyl Acetate             | 2.845 | 43  | 8757   | 0.375 | ppbv # | 86     |
| 26) Hexane                    | 2.826 | 57  | 4657   | 0.458 | ppbv   | 92     |
| 27) Carbon Disulfide          | 2.153 | 76  | 5958   | 0.502 | ppbv # | 1      |
| 28) Methyl tert-Butyl Ether   | 2.444 | 73  | 2935m  | 0.480 | ppbv   |        |
| 29) Chloroform                | 2.849 | 83  | 10375  | 0.544 | ppbv   | 87     |
| 30) Cyclohexane               | 3.865 | 84  | 3186m  | 0.374 | ppbv   |        |
| 31) cis-1,2-Dichloroethene    | 2.726 | 61  | 5701   | 0.480 | ppbv # | 72     |
| 32) 1,1,1-Trichloroethane     | 3.370 | 97  | 9357   | 0.452 | ppbv   | 97     |
| 34) 2-Butanone                | 2.564 | 43  | 8393   | 0.544 | ppbv # | 89     |
| 35) Carbon Tetrachloride      | 3.761 | 117 | 9780   | 0.505 | ppbv   | 84     |
| 36) Benzene                   | 3.655 | 78  | 10264m | 0.510 | ppbv   |        |
| 37) 1,2-Dichloroethane        | 3.224 | 62  | 7910   | 0.510 | ppbv # | 96     |
| 38) Trichloroethene           | 4.551 | 130 | 3828m  | 0.499 | ppbv   |        |
| 39) 1,2-Dichloropropane       | 4.331 | 63  | 4209m  | 0.559 | ppbv   |        |
| 40) 1,4-Dioxane               | 4.606 | 88  | 1892m  | 0.536 | ppbv   |        |
| 41) Tetrahydrofuran           | 3.069 | 42  | 3404   | 0.464 | ppbv # | 90     |
| 42) Bromodichloromethane      | 4.490 | 83  | 9551m  | 0.504 | ppbv   |        |
| 43) Methyl Methacrylate       | 4.901 | 69  | 3236m  | 0.431 | ppbv   |        |
| 44) 2,2,4-Trimethylpentane    | 4.648 | 57  | 14999m | 0.460 | ppbv   |        |
| 45) t-1,3-Dichloropropene     | 6.428 | 75  | 3595m  | 0.365 | ppbv   |        |

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri May 02 03:16:31 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 05/08/2025  
 Supervised By : Mahesh Dadoda 05/09/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.606  | 75   | 4693m    | 0.401 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.590  | 97   | 4827m    | 0.584 | ppbv   |          |
| 48) Dibromochloromethane      | 7.393  | 129  | 6556m    | 0.470 | ppbv   |          |
| 49) Bromoform                 | 9.487  | 173  | 5259     | 0.450 | ppbv   | 94       |
| 50) 4-Methyl-2-Pentanone      | 5.778  | 43   | 8744m    | 0.448 | ppbv   |          |
| 51) 2-Hexanone                | 7.451  | 43   | 5596m    | 0.359 | ppbv   |          |
| 52) Tetrachloroethene         | 8.231  | 164  | 3536m    | 0.462 | ppbv   |          |
| 53) Toluene                   | 6.936  | 91   | 9058m    | 0.425 | ppbv   |          |
| 54) 1,2-Dibromoethane         | 7.661  | 107  | 5669m    | 0.449 | ppbv   |          |
| 56) 1,1,1,2-Tetrachloroethane | 8.930  | 131  | 5800m    | 0.562 | ppbv   |          |
| 57) Chlorobenzene             | 8.927  | 112  | 9037     | 0.515 | ppbv # | 82       |
| 58) Ethyl Benzene             | 9.361  | 91   | 10381    | 0.356 | ppbv   | 95       |
| 59) m/p-Xylene                | 9.552  | 91   | 17882m   | 0.731 | ppbv   |          |
| 60) o-Xylene                  | 9.969  | 91   | 8402m    | 0.343 | ppbv   |          |
| 61) Styrene                   | 9.869  | 104  | 3314m    | 0.362 | ppbv   |          |
| 62) Isopropylbenzene          | 10.545 | 105  | 13940    | 0.394 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 8887     | 0.526 | ppbv   | 90       |
| 64) n-propylbenzene           | 10.995 | 120  | 3244     | 0.376 | ppbv   | 78       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 9987     | 0.317 | ppbv   | 90       |
| 66) Benzyl Chloride           | 11.617 | 91   | 1758     | 0.482 | ppbv # | 84       |
| 67) sec-Butylbenzene          | 11.772 | 105  | 16239    | 0.362 | ppbv   | 93       |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 11728    | 0.311 | ppbv   | 93       |
| 70) n-Butylbenzene            | 12.287 | 91   | 11644    | 0.298 | ppbv   | 97       |
| 71) 2-Chlorotoluene           | 10.905 | 91   | 10356    | 0.374 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 10768    | 0.373 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105  | 8874     | 0.349 | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 10209    | 0.332 | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 7478     | 0.437 | ppbv   | 92       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 7534     | 0.465 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 9067     | 0.541 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.889 | 225  | 8513     | 0.509 | ppbv   | 96       |
| 79) Naphthalene               | 13.520 | 128  | 6381     | 0.247 | ppbv # | 90       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 2236     | 0.116 | ppbv   | 93       |
| 81) 1,2,4-Trichlorobenzene    | 13.445 | 180  | 4198     | 0.304 | ppbv   | 96       |

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

