

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL100625\  
 Data File : VL043051.D  
 Acq On : 06 Oct 2025 13:38  
 Operator : SY/MD  
 Sample : Q2893-14 0.5 LOQ  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT3-2025

Quant Time: Oct 07 01:38:54 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Tue Oct 07 01:38:24 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/08/2025  
 Supervised By : Mahesh Dadoda 10/10/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 169913   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.952 | 114  | 465960   | 10.000 | ppbv  | 0.01     |
| 55) Chlorobenzene-d5    | 8.878 | 117  | 371598   | 10.000 | ppbv  | 0.02     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 273084 10.201 ppbv 0.01  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.000%

#### Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 16382  | 0.572 | ppbv   | 92     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 15441  | 0.557 | ppbv   | 99     |
| 4) Chloromethane              | 1.531 | 50  | 6034   | 0.577 | ppbv   | 99     |
| 5) Vinyl Chloride             | 1.580 | 62  | 5190   | 0.523 | ppbv   | 99     |
| 6) Bromomethane               | 1.667 | 94  | 2638   | 0.591 | ppbv   | 92     |
| 7) Chloroethane               | 1.703 | 64  | 2329   | 0.562 | ppbv   | 89     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 13498  | 0.575 | ppbv   | 97     |
| 9) Propene                    | 1.483 | 41  | 5700   | 0.510 | ppbv   | 86     |
| 10) Heptane                   | 4.975 | 43  | 9600m  | 0.350 | ppbv   |        |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 16543  | 0.562 | ppbv   | 93     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 12827  | 0.553 | ppbv   | 99     |
| 13) Ethanol                   | 1.719 | 45  | 605    | 0.783 | ppbv # | 31     |
| 14) Bromoethene               | 1.780 | 108 | 4314   | 0.519 | ppbv # | 94     |
| 15) Acetone                   | 1.835 | 43  | 20089  | 0.844 | ppbv   | 93     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 6277   | 0.640 | ppbv   | 89     |
| 17) tert-Butyl alcohol        | 2.039 | 59  | 13590  | 0.540 | ppbv   | 95     |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 5428m  | 0.534 | ppbv   |        |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 6562   | 0.576 | ppbv # | 33     |
| 20) Methylene Chloride        | 2.062 | 84  | 6865   | 0.661 | ppbv   | 97     |
| 21) Allyl Chloride            | 2.094 | 41  | 8003   | 0.525 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 5905   | 0.512 | ppbv   | 94     |
| 23) Vinyl Acetate             | 2.460 | 43  | 6018m  | 1.191 | ppbv   |        |
| 24) 1,1-Dichloroethane        | 2.405 | 63  | 12305  | 0.563 | ppbv   | 98     |
| 25) Ethyl Acetate             | 2.832 | 43  | 25312  | 0.424 | ppbv   | 99     |
| 26) Hexane                    | 2.826 | 57  | 8018   | 0.349 | ppbv # | 65     |
| 27) Carbon Disulfide          | 2.149 | 76  | 14461  | 0.534 | ppbv # | 1      |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 8154   | 0.568 | ppbv   | 99     |
| 29) Chloroform                | 2.842 | 83  | 20920  | 0.534 | ppbv   | 95     |
| 30) Cyclohexane               | 3.849 | 84  | 6219m  | 0.330 | ppbv   |        |
| 31) cis-1,2-Dichloroethene    | 2.716 | 61  | 10048  | 0.426 | ppbv   | 91     |
| 32) 1,1,1-Trichloroethane     | 3.363 | 97  | 19100  | 0.502 | ppbv   | 98     |
| 34) 2-Butanone                | 2.557 | 43  | 15345  | 0.485 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 3.761 | 117 | 20520  | 0.535 | ppbv   | 89     |
| 36) Benzene                   | 3.654 | 78  | 19888  | 0.447 | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 3.214 | 62  | 14215  | 0.539 | ppbv   | 99     |
| 38) Trichloroethene           | 4.544 | 130 | 9090   | 0.490 | ppbv   | 99     |
| 39) 1,2-Dichloropropane       | 4.305 | 63  | 8493m  | 0.515 | ppbv   |        |
| 40) 1,4-Dioxane               | 4.593 | 88  | 2764m  | 0.391 | ppbv   |        |
| 41) Tetrahydrofuran           | 3.059 | 42  | 6331m  | 0.387 | ppbv   |        |
| 42) Bromodichloromethane      | 4.486 | 83  | 20701m | 0.556 | ppbv   |        |
| 43) Methyl Methacrylate       | 4.871 | 69  | 5416m  | 0.366 | ppbv   |        |
| 44) 2,2,4-Trimethylpentane    | 4.632 | 57  | 27453  | 0.384 | ppbv # | 84     |
| 45) t-1,3-Dichloropropene     | 6.409 | 75  | 5694m  | 0.421 | ppbv   |        |

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Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT3-2025

Quant Time: Oct 07 01:38:54 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 : Tue Oct 07 01:38:24 2025  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/08/2025  
 Supervised By : Mahesh Dadoda 10/10/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.590  | 75   | 7638m    | 0.401 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.574  | 97   | 9940     | 0.542 | ppbv # | 88       |
| 48) Dibromochloromethane      | 7.383  | 129  | 16129    | 0.538 | ppbv   | 97       |
| 49) Bromoform                 | 9.477  | 173  | 12335    | 0.493 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.752  | 43   | 14526m   | 0.377 | ppbv   |          |
| 51) 2-Hexanone                | 7.438  | 43   | 9299m    | 0.339 | ppbv   |          |
| 52) Tetrachloroethene         | 8.218  | 164  | 7295     | 0.443 | ppbv   | 91       |
| 53) Toluene                   | 6.923  | 91   | 15169    | 0.338 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.645  | 107  | 10976    | 0.505 | ppbv   | 88       |
| 56) 1,1,1,2-Tetrachloroethane | 8.920  | 131  | 13389    | 0.591 | ppbv # | 1        |
| 57) Chlorobenzene             | 8.917  | 112  | 21766    | 0.554 | ppbv # | 93       |
| 58) Ethyl Benzene             | 9.351  | 91   | 19839    | 0.345 | ppbv   | 91       |
| 59) m/p-Xylene                | 9.548  | 91   | 30865m   | 0.636 | ppbv   |          |
| 60) o-Xylene                  | 9.959  | 91   | 14922    | 0.309 | ppbv   | 96       |
| 61) Styrene                   | 9.869  | 104  | 6158     | 0.304 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.539 | 105  | 27529    | 0.371 | ppbv   | 97       |
| 63) 1,1,2,2-Tetrachloroethane | 9.959  | 83   | 19462    | 0.561 | ppbv   | 98       |
| 64) n-propylbenzene           | 10.989 | 120  | 6171     | 0.325 | ppbv   | 94       |
| 65) tert-Butylbenzene         | 11.529 | 119  | 20319    | 0.307 | ppbv   | 96       |
| 66) Benzyl Chloride           | 11.613 | 91   | 1343     | 0.532 | ppbv # | 92       |
| 67) sec-Butylbenzene          | 11.762 | 105  | 30541    | 0.331 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 22148    | 0.295 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.280 | 91   | 20532    | 0.284 | ppbv   | 96       |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 18718    | 0.348 | ppbv   | 96       |
| 72) 4-Ethyltoluene            | 11.121 | 105  | 17619    | 0.306 | ppbv # | 97       |
| 73) 1,3,5-Trimethylbenzene    | 11.199 | 105  | 14743    | 0.296 | ppbv   | 90       |
| 74) 1,2,4-Trimethylbenzene    | 11.532 | 105  | 16834    | 0.299 | ppbv   | 91       |
| 75) 1,3-Dichlorobenzene       | 11.604 | 146  | 16373    | 0.448 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.668 | 146  | 14302    | 0.410 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.943 | 146  | 17997    | 0.494 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.876 | 225  | 12898    | 0.508 | ppbv   | 98       |
| 79) Naphthalene               | 13.510 | 128  | 7188     | 0.214 | ppbv # | 93       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 2643m    | 0.156 | ppbv   |          |
| 81) 1,2,4-Trichlorobenzene    | 13.435 | 180  | 5012     | 0.231 | ppbv   | 94       |

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

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