

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032525\  
 Data File : VL042170.D  
 Acq On : 25 Mar 2025 12:07  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/26/2025  
 Supervised By : Mahesh Dadoda 03/26/2025

Quant Time: Mar 26 01:37:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032525AIR.M

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

QLast Update : Wed Mar 26 01:29:19 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.793 | 49   | 175127   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.972 | 114  | 423589   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.895 | 117  | 373406   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 314472 10.777 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 107.800%

Target Compounds

|                               |       |     |         |        |        | Qvalue |
|-------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.502 | 85  | 330969  | 17.125 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.479 | 51  | 334122  | 13.159 | ppbv   | 99     |
| 4) Chloromethane              | 1.534 | 50  | 121840  | 17.173 | ppbv   | 97     |
| 5) Vinyl Chloride             | 1.583 | 62  | 115185  | 17.428 | ppbv   | 99     |
| 6) Bromomethane               | 1.670 | 94  | 56219   | 17.486 | ppbv   | 100    |
| 7) Chloroethane               | 1.706 | 64  | 45835   | 16.760 | ppbv # | 89     |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 261743  | 16.663 | ppbv   | 99     |
| 9) Propene                    | 1.486 | 41  | 142186  | 13.795 | ppbv   | 99     |
| 10) Heptane                   | 4.994 | 43  | 440086  | 13.748 | ppbv   | 100    |
| 11) Trichlorofluoromethane    | 1.881 | 101 | 353951  | 18.331 | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 274788  | 17.596 | ppbv   | 99     |
| 13) Ethanol                   | 1.725 | 45  | 6104    | 9.053  | ppbv   | 93     |
| 14) Bromoethene               | 1.784 | 108 | 92580   | 17.168 | ppbv   | 100    |
| 15) Acetone                   | 1.839 | 43  | 258359  | 15.849 | ppbv   | 98     |
| 16) 1,3-Butadiene             | 1.612 | 39  | 125992  | 16.652 | ppbv   | 99     |
| 17) tert-Butyl alcohol        | 2.046 | 59  | 294984  | 15.032 | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 2.039 | 96  | 122232  | 17.676 | ppbv   | 94     |
| 19) Isopropyl Alcohol         | 1.890 | 45  | 143424  | 15.489 | ppbv # | 1      |
| 20) Methylene Chloride        | 2.065 | 84  | 99720   | 16.301 | ppbv   | 98     |
| 21) Allyl Chloride            | 2.101 | 41  | 199520  | 17.064 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 2.347 | 96  | 136295  | 16.682 | ppbv   | 98     |
| 23) Vinyl Acetate             | 2.470 | 43  | 111199  | 10.671 | ppbv # | 96     |
| 24) 1,1-Dichloroethane        | 2.415 | 63  | 259881  | 17.075 | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.842 | 43  | 844997  | 13.665 | ppbv   | 100    |
| 26) Hexane                    | 2.832 | 57  | 332811  | 13.433 | ppbv   | 97     |
| 27) Carbon Disulfide          | 2.156 | 76  | 329041  | 18.202 | ppbv   | 98     |
| 28) Methyl tert-Butyl Ether   | 2.447 | 73  | 180119  | 14.073 | ppbv   | 98     |
| 29) Chloroform                | 2.855 | 83  | 462385  | 13.706 | ppbv   | 100    |
| 30) Cyclohexane               | 3.868 | 84  | 265572  | 13.417 | ppbv   | 96     |
| 31) cis-1,2-Dichloroethene    | 2.729 | 61  | 294790  | 12.771 | ppbv   | 94     |
| 32) 1,1,1-Trichloroethane     | 3.376 | 97  | 424691  | 13.201 | ppbv   | 99     |
| 34) 2-Butanone                | 2.564 | 43  | 474558  | 14.227 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 3.774 | 117 | 447541  | 15.145 | ppbv   | 98     |
| 36) Benzene                   | 3.667 | 78  | 632534  | 14.235 | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 3.227 | 62  | 341830  | 13.831 | ppbv   | 99     |
| 38) Trichloroethene           | 4.564 | 130 | 248010  | 13.684 | ppbv   | 96     |
| 39) 1,2-Dichloropropane       | 4.328 | 63  | 237428  | 13.990 | ppbv   | 97     |
| 40) 1,4-Dioxane               | 4.599 | 88  | 106935  | 13.947 | ppbv # | 93     |
| 41) Tetrahydrofuran           | 3.062 | 42  | 278545  | 14.330 | ppbv   | 98     |
| 42) Bromodichloromethane      | 4.502 | 83  | 478430  | 14.332 | ppbv # | 97     |
| 43) Methyl Methacrylate       | 4.894 | 69  | 239012  | 14.063 | ppbv   | 98     |
| 44) 2,2,4-Trimethylpentane    | 4.654 | 57  | 1134444 | 14.309 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.435 | 75  | 223719  | 13.563 | ppbv   | 98     |

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Quant Time: Mar 26 01:37:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Wed Mar 26 01:29:19 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.622  | 75   | 303294   | 14.093 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 6.600  | 97   | 251112   | 14.441 | ppbv   | 96       |
| 48) Dibromochloromethane      | 7.402  | 129  | 399831   | 14.863 | ppbv   | 100      |
| 49) Bromoform                 | 9.497  | 173  | 358440   | 15.245 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.771  | 43   | 675442   | 15.760 | ppbv   | 98       |
| 51) 2-Hexanone                | 7.451  | 43   | 548552   | 18.834 | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.237  | 164  | 215967   | 14.243 | ppbv   | 97       |
| 53) Toluene                   | 6.949  | 91   | 702279   | 14.321 | ppbv   | 97       |
| 54) 1,2-Dibromoethane         | 7.665  | 107  | 331861   | 14.351 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 8.937  | 131  | 312040   | 14.366 | ppbv   | 99       |
| 57) Chlorobenzene             | 8.933  | 112  | 565846   | 14.270 | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.367  | 91   | 957342   | 13.978 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.564  | 91   | 1603678m | 28.837 | ppbv   |          |
| 60) o-Xylene                  | 9.976  | 91   | 810012   | 14.429 | ppbv   | 99       |
| 61) Styrene                   | 9.882  | 104  | 368848   | 14.450 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.548 | 105  | 1202954  | 14.326 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.972  | 83   | 564800   | 15.123 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.998 | 120  | 335373   | 15.078 | ppbv   | 93       |
| 65) tert-Butylbenzene         | 11.542 | 119  | 1109715  | 14.346 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.623 | 91   | 87909    | 15.346 | ppbv   | 100      |
| 67) sec-Butylbenzene          | 11.775 | 105  | 1580269  | 14.252 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.934 | 119  | 1340848  | 15.111 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.290 | 91   | 1402137  | 15.365 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.911 | 91   | 925706   | 14.349 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.134 | 105  | 1020577  | 14.777 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.212 | 105  | 865245   | 14.484 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.545 | 105  | 977736   | 14.318 | ppbv   | 93       |
| 75) 1,3-Dichlorobenzene       | 11.617 | 146  | 613880   | 15.479 | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 11.681 | 146  | 614345   | 15.597 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 11.956 | 146  | 615892   | 15.838 | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.889 | 225  | 510779   | 16.633 | ppbv   | 100      |
| 79) Naphthalene               | 13.523 | 128  | 1133432  | 23.033 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.465 | 142  | 571632   | 38.867 | ppbv   | 100      |
| 81) 1,2,4-Trichlorobenzene    | 13.448 | 180  | 521984   | 19.252 | ppbv   | 99       |

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

