

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL012725\  
 Data File : VL041956.D  
 Acq On : 27 Jan 2025 17:13  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/30/2025  
 Supervised By : Mahesh Dadoda 01/30/2025

Quant Time: Jan 28 02:40:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.797 | 49   | 143398   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.975 | 114  | 398917   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.898 | 117  | 348394   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 280681 10.229 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.300%

#### Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.502 | 85  | 206893 | 10.592 | ppbv   | 96     |
| 3) Chlorodifluoromethane      | 1.479 | 51  | 216818 | 10.596 | ppbv   | 99     |
| 4) Chloromethane              | 1.538 | 50  | 79937  | 10.882 | ppbv   | 100    |
| 5) Vinyl Chloride             | 1.583 | 62  | 75978  | 10.211 | ppbv   | 99     |
| 6) Bromomethane               | 1.674 | 94  | 36960  | 10.422 | ppbv   | 99     |
| 7) Chloroethane               | 1.709 | 64  | 31969  | 11.043 | ppbv   | 94     |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 178531 | 10.459 | ppbv   | 98     |
| 9) Propene                    | 1.489 | 41  | 82969  | 9.843  | ppbv   | 97     |
| 10) Heptane                   | 5.001 | 43  | 255198 | 11.327 | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 1.884 | 101 | 215008 | 10.582 | ppbv   | 93     |
| 12) 1,1,2-Trichlorotrifluo... | 2.146 | 101 | 169110 | 10.620 | ppbv   | 100    |
| 13) Ethanol                   | 1.729 | 45  | 4190   | 6.786  | ppbv   | 90     |
| 14) Bromoethene               | 1.787 | 108 | 58751  | 10.077 | ppbv   | 99     |
| 15) Acetone                   | 1.842 | 43  | 166615 | 9.674  | ppbv   | 99     |
| 16) 1,3-Butadiene             | 1.612 | 39  | 80226  | 10.378 | ppbv   | 100    |
| 17) tert-Butyl alcohol        | 2.049 | 59  | 200066 | 9.438  | ppbv   | 98     |
| 18) 1,1-Dichloroethene        | 2.039 | 96  | 73783  | 10.280 | ppbv   | 98     |
| 19) Isopropyl Alcohol         | 1.894 | 45  | 93768  | 9.182  | ppbv # | 35     |
| 20) Methylene Chloride        | 2.068 | 84  | 62429  | 9.172  | ppbv   | 95     |
| 21) Allyl Chloride            | 2.104 | 41  | 126673 | 10.621 | ppbv   | 97     |
| 22) trans-1,2-Dichloroethene  | 2.350 | 96  | 82579  | 10.195 | ppbv   | 96     |
| 23) Vinyl Acetate             | 2.473 | 43  | 63670  | 7.458  | ppbv # | 97     |
| 24) 1,1-Dichloroethane        | 2.418 | 63  | 165409 | 10.557 | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.848 | 43  | 510398 | 10.990 | ppbv   | 100    |
| 26) Hexane                    | 2.839 | 57  | 201675 | 10.979 | ppbv   | 97     |
| 27) Carbon Disulfide          | 2.159 | 76  | 198206 | 10.904 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 2.450 | 73  | 109580 | 7.805  | ppbv   | 99     |
| 29) Chloroform                | 2.861 | 83  | 318439 | 10.967 | ppbv   | 99     |
| 30) Cyclohexane               | 3.874 | 84  | 166235 | 10.434 | ppbv   | 98     |
| 31) cis-1,2-Dichloroethene    | 2.732 | 61  | 191314 | 9.891  | ppbv   | 92     |
| 32) 1,1,1-Trichloroethane     | 3.383 | 97  | 294982 | 10.617 | ppbv   | 99     |
| 34) 2-Butanone                | 2.567 | 43  | 285825 | 11.267 | ppbv   | 98     |
| 35) Carbon Tetrachloride      | 3.777 | 117 | 303231 | 12.101 | ppbv   | 100    |
| 36) Benzene                   | 3.671 | 78  | 412317 | 11.269 | ppbv   | 99     |
| 37) 1,2-Dichloroethane        | 3.230 | 62  | 233303 | 11.354 | ppbv   | 100    |
| 38) Trichloroethene           | 4.570 | 130 | 165446 | 11.395 | ppbv   | 97     |
| 39) 1,2-Dichloropropane       | 4.331 | 63  | 145676 | 11.351 | ppbv   | 98     |
| 40) 1,4-Dioxane               | 4.609 | 88  | 68212m | 10.524 | ppbv   |        |
| 41) Tetrahydrofuran           | 3.069 | 42  | 160697 | 11.655 | ppbv   | 98     |
| 42) Bromodichloromethane      | 4.509 | 83  | 318106 | 11.546 | ppbv   | 98     |
| 43) Methyl Methacrylate       | 4.904 | 69  | 148336 | 10.913 | ppbv   | 98     |
| 44) 2,2,4-Trimethylpentane    | 4.661 | 57  | 700987 | 11.845 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.444 | 75  | 136885 | 10.759 | ppbv   | 98     |

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 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Manual Integrations  
 APPROVED

Quant Time: Jan 28 02:40:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 01/30/2025  
 Supervised By : Mahesh Dadoda 01/30/2025

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.625  | 75   | 182770   | 10.942 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 6.606  | 97   | 164917   | 12.124 | ppbv   | 97       |
| 48) Dibromochloromethane      | 7.406  | 129  | 248718   | 11.850 | ppbv   | 99       |
| 49) Bromoform                 | 9.500  | 173  | 207343   | 12.027 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.781  | 43   | 410141   | 11.843 | ppbv   | 98       |
| 51) 2-Hexanone                | 7.457  | 43   | 323889   | 12.171 | ppbv # | 98       |
| 52) Tetrachloroethene         | 8.244  | 164  | 135165   | 10.654 | ppbv   | 94       |
| 53) Toluene                   | 6.956  | 91   | 460000   | 11.542 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.674  | 107  | 218664   | 11.693 | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 8.943  | 131  | 212542   | 12.228 | ppbv   | 99       |
| 57) Chlorobenzene             | 8.937  | 112  | 384291   | 11.958 | ppbv   | 98       |
| 58) Ethyl Benzene             | 9.370  | 91   | 654353   | 12.018 | ppbv   | 100      |
| 59) m/p-Xylene                | 9.548  | 91   | 1106829m | 25.361 | ppbv   |          |
| 60) o-Xylene                  | 9.979  | 91   | 547340   | 12.635 | ppbv   | 99       |
| 61) Styrene                   | 9.885  | 104  | 242191   | 12.463 | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.552 | 105  | 813048   | 12.129 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.979  | 83   | 341408   | 12.334 | ppbv   | 100      |
| 64) n-propylbenzene           | 11.002 | 120  | 213765   | 12.621 | ppbv   | 98       |
| 65) tert-Butylbenzene         | 11.545 | 119  | 728163   | 11.920 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.626 | 91   | 41547    | 10.989 | ppbv   | 95       |
| 67) sec-Butylbenzene          | 11.782 | 105  | 1019309  | 12.118 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.937 | 119  | 835184   | 12.058 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.293 | 91   | 822400   | 11.972 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.914 | 91   | 600058   | 12.102 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.137 | 105  | 665814   | 12.850 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.215 | 105  | 562594   | 12.295 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.549 | 105  | 612367   | 12.357 | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 11.620 | 146  | 356384   | 12.136 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.685 | 146  | 350837   | 12.212 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.960 | 146  | 345263   | 11.864 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.895 | 225  | 215693   | 9.030  | ppbv   | 100      |
| 79) Naphthalene               | 13.526 | 128  | 502785   | 10.077 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.471 | 142  | 184341   | 7.793  | ppbv   | 100      |
| 81) 1,2,4-Trichlorobenzene    | 13.452 | 180  | 218618   | 8.977  | ppbv   | 98       |

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

