

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041825\  
 Data File : VL042383.D  
 Acq On : 18 Apr 2025 10:23  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025  
 Supervised By :Mahesh Dadoda 04/21/2025

Quant Time: Apr 18 22:55:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 135964   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.949 | 114  | 427541   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.875 | 117  | 379215   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 10.370 | 95    | 309235   | 9.924    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.200% |

Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.496 | 85  | 227548 | 9.472 | ppbv   | 95     |
| 3) Chlorodifluoromethane      | 1.473 | 51  | 195422 | 8.543 | ppbv   | 96     |
| 4) Chloromethane              | 1.531 | 50  | 84884  | 8.929 | ppbv   | 96     |
| 5) Vinyl Chloride             | 1.576 | 62  | 82816  | 8.003 | ppbv   | 97     |
| 6) Bromomethane               | 1.664 | 94  | 39633  | 8.916 | ppbv   | 90     |
| 7) Chloroethane               | 1.703 | 64  | 33067  | 8.836 | ppbv   | 96     |
| 8) Dichlorotetrafluoroethane  | 1.551 | 85  | 193310 | 9.373 | ppbv   | 98     |
| 9) Propene                    | 1.483 | 41  | 79602  | 7.641 | ppbv   | 98     |
| 10) Heptane                   | 4.968 | 43  | 211969 | 7.242 | ppbv   | 97     |
| 11) Trichlorofluoromethane    | 1.874 | 101 | 220733 | 9.663 | ppbv   | 94     |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 171052 | 9.158 | ppbv   | 96     |
| 13) Ethanol                   | 1.719 | 45  | 4291   | 2.592 | ppbv   | 96     |
| 14) Bromoethene               | 1.777 | 108 | 66481  | 9.442 | ppbv   | 99     |
| 15) Acetone                   | 1.832 | 43  | 172096 | 7.732 | ppbv   | 100    |
| 16) 1,3-Butadiene             | 1.606 | 39  | 84576  | 7.945 | ppbv   | 96     |
| 17) tert-Butyl alcohol        | 2.036 | 59  | 230418 | 8.353 | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 2.030 | 96  | 79587  | 9.121 | ppbv   | 96     |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 101483 | 8.208 | ppbv   | 93     |
| 20) Methylene Chloride        | 2.059 | 84  | 65868  | 7.556 | ppbv   | 96     |
| 21) Allyl Chloride            | 2.091 | 41  | 126980 | 8.263 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 2.337 | 96  | 88798  | 8.938 | ppbv   | 98     |
| 23) Vinyl Acetate             | 2.457 | 43  | 64135  | 7.119 | ppbv # | 98     |
| 24) 1,1-Dichloroethane        | 2.405 | 63  | 173462 | 9.191 | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.832 | 43  | 441499 | 8.045 | ppbv   | 100    |
| 26) Hexane                    | 2.819 | 57  | 177427 | 7.989 | ppbv   | 95     |
| 27) Carbon Disulfide          | 2.146 | 76  | 209681 | 8.818 | ppbv   | 98     |
| 28) Methyl tert-Butyl Ether   | 2.437 | 73  | 122464 | 8.416 | ppbv   | 92     |
| 29) Chloroform                | 2.842 | 83  | 296747 | 9.453 | ppbv   | 96     |
| 30) Cyclohexane               | 3.849 | 84  | 155716 | 8.673 | ppbv   | 94     |
| 31) cis-1,2-Dichloroethene    | 2.716 | 61  | 190037 | 9.000 | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane     | 3.363 | 97  | 321462 | 9.097 | ppbv   | 99     |
| 34) 2-Butanone                | 2.554 | 43  | 249113 | 7.367 | ppbv   | 98     |
| 35) Carbon Tetrachloride      | 3.755 | 117 | 336452 | 8.695 | ppbv   | 97     |
| 36) Benzene                   | 3.648 | 78  | 361650 | 7.842 | ppbv   | 97     |
| 37) 1,2-Dichloroethane        | 3.214 | 62  | 239079 | 8.638 | ppbv   | 98     |
| 38) Trichloroethene           | 4.541 | 130 | 160521 | 7.964 | ppbv   | 96     |
| 39) 1,2-Dichloropropane       | 4.305 | 63  | 128161 | 7.458 | ppbv   | 95     |
| 40) 1,4-Dioxane               | 4.574 | 88  | 65746  | 6.962 | ppbv # | 92     |
| 41) Tetrahydrofuran           | 3.049 | 42  | 137694 | 6.984 | ppbv   | 97     |
| 42) Bromodichloromethane      | 4.483 | 83  | 332490 | 8.632 | ppbv   | 99     |
| 43) Methyl Methacrylate       | 4.871 | 69  | 147517 | 7.098 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 4.629 | 57  | 587274 | 7.374 | ppbv   | 98     |
| 45) t-1,3-Dichloropropene     | 6.402 | 75  | 164658 | 7.756 | ppbv   | 95     |

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Quant Time: Apr 18 22:55:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.593  | 75   | 200823   | 7.729  | ppbv   | 92       |
| 47) 1,1,2-Trichloroethane     | 6.571  | 97   | 143547   | 8.199  | ppbv   | 94       |
| 48) Dibromochloromethane      | 7.380  | 129  | 276258   | 8.931  | ppbv   | 99       |
| 49) Bromoform                 | 9.477  | 173  | 245731   | 9.086  | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.742  | 43   | 365292   | 6.501  | ppbv   | 99       |
| 51) 2-Hexanone                | 7.428  | 43   | 296019   | 5.874  | ppbv # | 98       |
| 52) Tetrachloroethene         | 8.218  | 164  | 138295   | 7.759  | ppbv   | 96       |
| 53) Toluene                   | 6.927  | 91   | 436388   | 7.886  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.645  | 107  | 209152   | 8.347  | ppbv   | 90       |
| 56) 1,1,1,2-Tetrachloroethane | 8.917  | 131  | 207437   | 9.038  | ppbv   | 99       |
| 57) Chlorobenzene             | 8.917  | 112  | 339932   | 8.619  | ppbv   | 95       |
| 58) Ethyl Benzene             | 9.351  | 91   | 620425   | 8.258  | ppbv   | 99       |
| 59) m/p-Xylene                | 9.545  | 91   | 1012385m | 16.726 | ppbv   |          |
| 60) o-Xylene                  | 9.959  | 91   | 505258   | 8.290  | ppbv   | 100      |
| 61) Styrene                   | 9.865  | 104  | 240108   | 8.253  | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.535 | 105  | 753628   | 8.422  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.959  | 83   | 297020   | 7.520  | ppbv   | 98       |
| 64) n-propylbenzene           | 10.985 | 120  | 191951   | 8.534  | ppbv   | 91       |
| 65) tert-Butylbenzene         | 11.529 | 119  | 688133   | 8.367  | ppbv   | 93       |
| 66) Benzyl Chloride           | 11.610 | 91   | 60227    | 6.664  | ppbv   | 96       |
| 67) sec-Butylbenzene          | 11.762 | 105  | 948966   | 8.295  | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 826443   | 8.315  | ppbv   | 100      |
| 70) n-Butylbenzene            | 12.277 | 91   | 832220   | 8.039  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 582951   | 8.306  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.121 | 105  | 615202   | 8.256  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.199 | 105  | 540783   | 8.220  | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105  | 598825   | 7.794  | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 11.604 | 146  | 345226   | 8.644  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.668 | 146  | 340293   | 8.477  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.943 | 146  | 339821   | 8.751  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 355324   | 9.061  | ppbv   | 99       |
| 79) Naphthalene               | 13.510 | 128  | 724361   | 7.884  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.455 | 142  | 396207   | 7.566  | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 344709   | 8.737  | ppbv   | 100      |

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

