

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL010725\  
 Data File : VL041841.D  
 Acq On : 07 Jan 2025 10:52  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Jan 08 01:21:59 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL010725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Wed Jan 08 01:18:22 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/09/2025  
 Supervised By : Mahesh Dadoda 01/09/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.800  | 49    | 90228    | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.975  | 114   | 210692   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.898  | 117   | 175693   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.390 | 95    | 149231   | 9.917    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 99.200%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.502  | 85    | 8282     | 0.559    | ppbv   | 99       |
| 3) Chlorodifluoromethane      | 1.479  | 51    | 7858     | 0.555    | ppbv   | 97       |
| 4) Chloromethane              | 1.538  | 50    | 3343     | 0.549    | ppbv   | 92       |
| 5) Vinyl Chloride             | 1.583  | 62    | 3086     | 0.503    | ppbv   | 90       |
| 6) Bromomethane               | 1.673  | 94    | 1453     | 0.552    | ppbv   | 96       |
| 7) Chloroethane               | 1.709  | 64    | 1413     | 0.598    | ppbv   | 93       |
| 8) Dichlorotetrafluoroethane  | 1.560  | 85    | 6936     | 0.543    | ppbv   | 99       |
| 9) Propene                    | 1.489  | 41    | 2570     | 0.522    | ppbv   | 87       |
| 10) Heptane                   | 5.004  | 43    | 4633m    | 0.381    | ppbv   |          |
| 11) Trichlorofluoromethane    | 1.884  | 101   | 8242     | 0.547    | ppbv   | 98       |
| 12) 1,1,2-Trichlorotrifluo... | 2.146  | 101   | 6155     | 0.549    | ppbv   | 96       |
| 13) Ethanol                   | 1.725  | 45    | 662      | 1.169    | ppbv   | 95       |
| 14) Bromoethene               | 1.787  | 108   | 1897     | 0.517    | ppbv # | 84       |
| 15) Acetone                   | 1.842  | 43    | 10484    | 0.631    | ppbv   | 97       |
| 16) 1,3-Butadiene             | 1.615  | 39    | 3795     | 0.583    | ppbv   | 86       |
| 17) tert-Butyl alcohol        | 2.052  | 59    | 7735     | 0.537    | ppbv   | 98       |
| 18) 1,1-Dichloroethene        | 2.042  | 96    | 2555     | 0.544    | ppbv   | 92       |
| 19) Isopropyl Alcohol         | 1.894  | 45    | 5026     | 0.645    | ppbv # | 95       |
| 20) Methylene Chloride        | 2.068  | 84    | 3053     | 0.643    | ppbv   | 92       |
| 21) Allyl Chloride            | 2.104  | 41    | 4272     | 0.499    | ppbv   | 86       |
| 22) trans-1,2-Dichloroethene  | 2.350  | 96    | 2791     | 0.532    | ppbv # | 79       |
| 23) Vinyl Acetate             | 2.470  | 43    | 2406m    | 0.452    | ppbv   |          |
| 24) 1,1-Dichloroethane        | 2.418  | 63    | 6246     | 0.544    | ppbv   | 96       |
| 25) Ethyl Acetate             | 2.852  | 43    | 12851    | 0.461    | ppbv   | 97       |
| 26) Hexane                    | 2.835  | 57    | 4350     | 0.450    | ppbv   | 86       |
| 27) Carbon Disulfide          | 2.159  | 76    | 4312     | 0.470    | ppbv # | 1        |
| 28) Methyl tert-Butyl Ether   | 2.450  | 73    | 4116     | 0.565    | ppbv   | 91       |
| 29) Chloroform                | 2.858  | 83    | 9887     | 0.550    | ppbv   | 92       |
| 30) Cyclohexane               | 3.871  | 84    | 3038m    | 0.414    | ppbv   |          |
| 31) cis-1,2-Dichloroethene    | 2.729  | 61    | 4773     | 0.480    | ppbv   | 94       |
| 32) 1,1,1-Trichloroethane     | 3.382  | 97    | 8151     | 0.501    | ppbv   | 97       |
| 34) 2-Butanone                | 2.570  | 43    | 8647     | 0.521    | ppbv   | 97       |
| 35) Carbon Tetrachloride      | 3.784  | 117   | 7956     | 0.500    | ppbv   | 88       |
| 36) Benzene                   | 3.674  | 78    | 9795     | 0.487    | ppbv   | 95       |
| 37) 1,2-Dichloroethane        | 3.230  | 62    | 6918     | 0.523    | ppbv # | 95       |
| 38) Trichloroethene           | 4.570  | 130   | 3763     | 0.477    | ppbv # | 85       |
| 39) 1,2-Dichloropropane       | 4.331  | 63    | 4076     | 0.524    | ppbv   | 97       |
| 40) 1,4-Dioxane               | 4.629  | 88    | 1225m    | 0.406    | ppbv   |          |
| 41) Tetrahydrofuran           | 3.075  | 42    | 3545m    | 0.453    | ppbv   |          |
| 42) Bromodichloromethane      | 4.512  | 83    | 7678m    | 0.495    | ppbv   |          |
| 43) Methyl Methacrylate       | 4.900  | 69    | 2537m    | 0.401    | ppbv   |          |
| 44) 2,2,4-Trimethylpentane    | 4.661  | 57    | 13710    | 0.413    | ppbv # | 89       |
| 45) t-1,3-Dichloropropene     | 6.438  | 75    | 2941m    | 0.477    | ppbv   |          |

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 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025  
 Supervised By :Mahesh Dadoda 01/09/2025

Quant Time: Jan 08 01:21:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL010725AIR.M

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

QLast Update : Wed Jan 08 01:18:22 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.629  | 75   | 3526m    | 0.434 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.606  | 97   | 4392m    | 0.533 | ppbv   |          |
| 48) Dibromochloromethane      | 7.409  | 129  | 4575m    | 0.436 | ppbv   |          |
| 49) Bromoform                 | 9.496  | 173  | 3639     | 0.433 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.797  | 43   | 7670m    | 0.400 | ppbv   |          |
| 51) 2-Hexanone                | 7.467  | 43   | 5557m    | 0.383 | ppbv   |          |
| 52) Tetrachloroethene         | 8.244  | 164  | 3227m    | 0.541 | ppbv   |          |
| 53) Toluene                   | 6.962  | 91   | 6897m    | 0.385 | ppbv   |          |
| 54) 1,2-Dibromoethane         | 7.681  | 107  | 4885m    | 0.484 | ppbv   |          |
| 56) 1,1,1,2-Tetrachloroethane | 8.940  | 131  | 5115     | 0.511 | ppbv # | 1        |
| 57) Chlorobenzene             | 8.940  | 112  | 9721m    | 0.530 | ppbv   |          |
| 58) Ethyl Benzene             | 9.373  | 91   | 8814     | 0.368 | ppbv   | 93       |
| 59) m/p-Xylene                | 9.568  | 91   | 14012m   | 0.663 | ppbv   |          |
| 60) o-Xylene                  | 9.979  | 91   | 6551     | 0.319 | ppbv   | 100      |
| 61) Styrene                   | 9.885  | 104  | 2777     | 0.348 | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.552 | 105  | 12528    | 0.388 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.979  | 83   | 8924     | 0.495 | ppbv   | 97       |
| 64) n-propylbenzene           | 10.998 | 120  | 2721m    | 0.328 | ppbv   |          |
| 65) tert-Butylbenzene         | 11.542 | 119  | 9315     | 0.320 | ppbv   | 100      |
| 66) Benzyl Chloride           | 11.633 | 91   | 1242     | 0.511 | ppbv # | 91       |
| 67) sec-Butylbenzene          | 11.782 | 105  | 14329    | 0.337 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.940 | 119  | 10167    | 0.305 | ppbv   | 94       |
| 70) n-Butylbenzene            | 12.293 | 91   | 10226    | 0.305 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.914 | 91   | 8114     | 0.346 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.137 | 105  | 8065     | 0.324 | ppbv # | 97       |
| 73) 1,3,5-Trimethylbenzene    | 11.215 | 105  | 7174     | 0.329 | ppbv   | 89       |
| 74) 1,2,4-Trimethylbenzene    | 11.548 | 105  | 7816     | 0.310 | ppbv # | 87       |
| 75) 1,3-Dichlorobenzene       | 11.620 | 146  | 7704     | 0.456 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.684 | 146  | 7404     | 0.456 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.960 | 146  | 8725     | 0.496 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.895 | 225  | 6344     | 0.508 | ppbv   | 95       |
| 79) Naphthalene               | 13.529 | 128  | 6035     | 0.325 | ppbv # | 93       |
| 80) Naphthalene,2-methyl-     | 14.471 | 142  | 2415     | 0.351 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.455 | 180  | 4239     | 0.412 | ppbv   | 99       |

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

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