

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042043.D  
 Acq On : 25 Feb 2025 10:00  
 Operator : SY/MD  
 Sample : VSTDIC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:27:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:15:00 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.800 | 49   | 161096   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.978 | 114  | 423363   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.898 | 117  | 369917   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 287450 9.420 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.200%

Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.502 | 85  | 17457  | 0.629 | ppbv   | 95     |
| 3) Chlorodifluoromethane      | 1.479 | 51  | 25229  | 0.823 | ppbv   | 98     |
| 4) Chloromethane              | 1.538 | 50  | 6417   | 0.595 | ppbv # | 75     |
| 5) Vinyl Chloride             | 1.586 | 62  | 5567   | 0.432 | ppbv   | 96     |
| 6) Bromomethane               | 1.674 | 94  | 2966   | 0.594 | ppbv   | 100    |
| 7) Chloroethane               | 1.709 | 64  | 2542   | 0.605 | ppbv   | 96     |
| 8) Dichlorotetrafluoroethane  | 1.560 | 85  | 14655  | 0.601 | ppbv   | 90     |
| 9) Propene                    | 1.486 | 41  | 10156  | 0.768 | ppbv   | 96     |
| 10) Heptane                   | 4.998 | 43  | 31354m | 0.854 | ppbv   |        |
| 11) Trichlorofluoromethane    | 1.884 | 101 | 18079  | 0.648 | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluo... | 2.149 | 101 | 14527  | 0.667 | ppbv   | 92     |
| 13) Ethanol                   | 1.725 | 45  | 915m   | 0.614 | ppbv   |        |
| 14) Bromoethene               | 1.787 | 108 | 4905   | 0.604 | ppbv # | 95     |
| 15) Acetone                   | 1.845 | 43  | 15468  | 0.582 | ppbv   | 98     |
| 16) 1,3-Butadiene             | 1.615 | 39  | 7010   | 0.556 | ppbv   | 99     |
| 17) tert-Butyl alcohol        | 2.052 | 59  | 19092  | 0.580 | ppbv   | 97     |
| 18) 1,1-Dichloroethene        | 2.043 | 96  | 7042   | 0.677 | ppbv   | 94     |
| 19) Isopropyl Alcohol         | 1.894 | 45  | 9191   | 0.616 | ppbv # | 32     |
| 20) Methylene Chloride        | 2.068 | 84  | 6026   | 0.602 | ppbv   | 95     |
| 21) Allyl Chloride            | 2.104 | 41  | 11550  | 0.600 | ppbv   | 95     |
| 22) trans-1,2-Dichloroethene  | 2.347 | 96  | 8145m  | 0.722 | ppbv   |        |
| 23) Vinyl Acetate             | 2.473 | 43  | 9893   | 0.687 | ppbv # | 91     |
| 24) 1,1-Dichloroethane        | 2.418 | 63  | 13783  | 0.601 | ppbv   | 98     |
| 25) Ethyl Acetate             | 2.852 | 43  | 59183  | 0.811 | ppbv   | 99     |
| 26) Hexane                    | 2.836 | 57  | 23549  | 0.804 | ppbv   | 96     |
| 27) Carbon Disulfide          | 2.159 | 76  | 15659  | 0.568 | ppbv # | 46     |
| 28) Methyl tert-Butyl Ether   | 2.454 | 73  | 13593  | 0.759 | ppbv   | 95     |
| 29) Chloroform                | 2.861 | 83  | 32925  | 0.776 | ppbv   | 94     |
| 30) Cyclohexane               | 3.874 | 84  | 19953  | 0.840 | ppbv   | 97     |
| 31) cis-1,2-Dichloroethene    | 2.732 | 61  | 22565  | 0.780 | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane     | 3.386 | 97  | 30870  | 0.656 | ppbv   | 96     |
| 34) 2-Butanone                | 2.570 | 43  | 33820  | 0.929 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 3.777 | 117 | 30618  | 0.745 | ppbv   | 90     |
| 36) Benzene                   | 3.674 | 78  | 45892  | 0.895 | ppbv   | 96     |
| 37) 1,2-Dichloroethane        | 3.234 | 62  | 25585  | 0.876 | ppbv   | 99     |
| 38) Trichloroethene           | 4.570 | 130 | 18921  | 0.908 | ppbv   | 91     |
| 39) 1,2-Dichloropropane       | 4.334 | 63  | 17557  | 0.934 | ppbv   | 94     |
| 40) 1,4-Dioxane               | 4.619 | 88  | 8319m  | 0.850 | ppbv   |        |
| 41) Tetrahydrofuran           | 3.075 | 42  | 20823  | 1.000 | ppbv   | 96     |
| 42) Bromodichloromethane      | 4.515 | 83  | 33481  | 0.847 | ppbv   | 97     |
| 43) Methyl Methacrylate       | 4.907 | 69  | 17679  | 0.756 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 4.661 | 57  | 81921  | 0.941 | ppbv   | 98     |
| 45) t-1,3-Dichloropropene     | 6.444 | 75  | 16578m | 0.751 | ppbv   |        |

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 Operator : SY/MD  
 Sample : VSTDIC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025  
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:27:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:15:00 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.632  | 75   | 22127m   | 0.790 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.616  | 97   | 18160m   | 0.918 | ppbv   |          |
| 48) Dibromochloromethane      | 7.412  | 129  | 28239    | 0.852 | ppbv   | 97       |
| 49) Bromoform                 | 9.500  | 173  | 23310    | 0.858 | ppbv   | 94       |
| 50) 4-Methyl-2-Pentanone      | 5.791  | 43   | 41249m   | 0.737 | ppbv   |          |
| 51) 2-Hexanone                | 7.470  | 43   | 24117    | 0.527 | ppbv # | 97       |
| 52) Tetrachloroethene         | 8.241  | 164  | 16217    | 0.907 | ppbv   | 89       |
| 53) Toluene                   | 6.959  | 91   | 51231    | 0.838 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.674  | 107  | 23427    | 0.860 | ppbv   | 94       |
| 56) 1,1,1,2-Tetrachloroethane | 8.943  | 131  | 22060    | 0.833 | ppbv   | 97       |
| 57) Chlorobenzene             | 8.937  | 112  | 41173    | 0.946 | ppbv   | 96       |
| 58) Ethyl Benzene             | 9.370  | 91   | 70507    | 0.871 | ppbv   | 97       |
| 59) m/p-Xylene                | 9.568  | 91   | 114691m  | 1.799 | ppbv   |          |
| 60) o-Xylene                  | 9.979  | 91   | 57322    | 0.889 | ppbv   | 99       |
| 61) Styrene                   | 9.885  | 104  | 26596    | 0.865 | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.555 | 105  | 86533    | 0.894 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.979  | 83   | 38520    | 0.926 | ppbv   | 98       |
| 64) n-propylbenzene           | 11.002 | 120  | 22456    | 0.944 | ppbv   | 94       |
| 65) tert-Butylbenzene         | 11.545 | 119  | 83284    | 0.987 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.626 | 91   | 5880m    | 0.695 | ppbv   |          |
| 67) sec-Butylbenzene          | 11.782 | 105  | 119435   | 1.007 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.940 | 119  | 93710    | 0.966 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.293 | 91   | 94969    | 0.993 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.914 | 91   | 67655    | 0.928 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.137 | 105  | 71906    | 0.952 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.215 | 105  | 64087    | 0.983 | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 11.549 | 105  | 73323    | 1.048 | ppbv   | 100      |
| 75) 1,3-Dichlorobenzene       | 11.620 | 146  | 41063    | 1.091 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.685 | 146  | 39235    | 1.068 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.960 | 146  | 40574    | 1.127 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.895 | 225  | 30764    | 1.033 | ppbv   | 99       |
| 79) Naphthalene               | 13.526 | 128  | 45743    | 0.665 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.471 | 142  | 5244     | 0.168 | ppbv   | 94       |
| 81) 1,2,4-Trichlorobenzene    | 13.452 | 180  | 25404    | 0.908 | ppbv   | 95       |

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

