

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060325\
 Data File : VL042607.D
 Acq On : 03 Jun 2025 13:02
 Operator : SY/MD
 Sample : Q2126-14 0.1 LOQ
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/04/2025
 Supervised By :Mahesh Dadoda 06/06/2025

Quant Time: Jun 04 01:48:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.784	49	98746	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	272525	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	244961	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 185452 10.099 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.000%

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.496	85	1532m	0.126	ppbv	
3) Chlorodifluoromethane	1.476	51	2108	0.126	ppbv	95
4) Chloromethane	1.534	50	689	0.143	ppbv	90
5) Vinyl Chloride	1.583	62	649	0.133	ppbv #	75
6) Bromomethane	1.667	94	238	0.100	ppbv #	24
7) Chloroethane	1.706	64	240	0.126	ppbv	98
8) Dichlorotetrafluoroethane	1.551	85	1332	0.132	ppbv	93
9) Propene	1.483	41	828m	0.123	ppbv	
10) Heptane	4.972	43	1975m	0.104	ppbv	
11) Trichlorofluoromethane	1.874	101	1409m	0.125	ppbv	
12) 1,1,2-Trichlorotrifluo...	2.143	101	1183m	0.133	ppbv	
13) Ethanol	1.719	45	471	0.587	ppbv #	39
14) Bromoethene	1.777	108	341	0.102	ppbv #	46
15) Acetone	1.835	43	1892	0.159	ppbv	91
16) 1,3-Butadiene	1.609	39	858	0.152	ppbv #	73
17) tert-Butyl alcohol	2.046	59	1684	0.136	ppbv	95
18) 1,1-Dichloroethene	2.030	96	429	0.104	ppbv #	44
19) Isopropyl Alcohol	1.887	45	1111	0.156	ppbv #	50
20) Methylene Chloride	2.059	84	1242	0.316	ppbv #	77
21) Allyl Chloride	2.094	41	1345	0.160	ppbv #	71
22) trans-1,2-Dichloroethene	2.334	96	566	0.123	ppbv #	87
23) Vinyl Acetate	2.463	43	2240	0.139	ppbv #	93
24) 1,1-Dichloroethane	2.408	63	1256	0.133	ppbv	97
25) Ethyl Acetate	2.845	43	4036m	0.124	ppbv	
26) Hexane	2.823	57	1559	0.105	ppbv #	76
27) Carbon Disulfide	2.146	76	1240	0.109	ppbv #	1
28) Methyl tert-Butyl Ether	2.444	73	788	0.131	ppbv #	77
29) Chloroform	2.842	83	2410	0.125	ppbv	98
30) Cyclohexane	3.858	84	1104m	0.090	ppbv	
31) cis-1,2-Dichloroethene	2.719	61	1585	0.117	ppbv #	83
32) 1,1,1-Trichloroethane	3.366	97	2289	0.116	ppbv	98
34) 2-Butanone	2.560	43	2504	0.129	ppbv	96
35) Carbon Tetrachloride	3.758	117	2239m	0.124	ppbv	
36) Benzene	3.651	78	3270	0.122	ppbv #	88
37) 1,2-Dichloroethane	3.211	62	1824m	0.137	ppbv	
38) Trichloroethene	4.541	130	1421m	0.125	ppbv	
39) 1,2-Dichloropropane	4.318	63	1267m	0.128	ppbv	
40) 1,4-Dioxane	4.619	88	470m	0.106	ppbv	
41) Tetrahydrofuran	3.075	42	1492m	0.131	ppbv	
42) Bromodichloromethane	4.486	83	2449m	0.129	ppbv	
43) Methyl Methacrylate	4.891	69	1184m	0.114	ppbv	
44) 2,2,4-Trimethylpentane	4.629	57	4989m	0.109	ppbv	
45) t-1,3-Dichloropropene	6.412	75	1174m	0.098	ppbv	

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	1578m	0.106	ppbv	
47) 1,1,2-Trichloroethane	6.577	97	1187m	0.116	ppbv	
48) Dibromochloromethane	7.390	129	1625m	0.099	ppbv	
49) Bromoform	9.480	173	1467	0.103	ppbv	96
50) 4-Methyl-2-Pentanone	5.781	43	2894m	0.107	ppbv	
51) 2-Hexanone	7.454	43	1799m	0.084	ppbv	
52) Tetrachloroethene	8.221	164	1115m	0.111	ppbv	
53) Toluene	6.930	91	3137m	0.101	ppbv	
54) 1,2-Dibromoethane	7.652	107	1791m	0.118	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.920	131	1517	0.123	ppbv #	53
57) Chlorobenzene	8.917	112	3002m	0.126	ppbv	
58) Ethyl Benzene	9.351	91	3777m	0.091	ppbv	
59) m/p-Xylene	9.555	91	5575m	0.170	ppbv	
60) o-Xylene	9.963	91	3119	0.096	ppbv	95
61) Styrene	9.869	104	1151m	0.075	ppbv	
62) Isopropylbenzene	10.536	105	4667	0.097	ppbv	95
63) 1,1,2,2-Tetrachloroethane	9.966	83	2337m	0.113	ppbv	
64) n-propylbenzene	10.992	120	1252m	0.097	ppbv	
65) tert-Butylbenzene	11.529	119	3700m	0.085	ppbv	
66) Benzyl Chloride	11.613	91	269m	0.048	ppbv	
67) sec-Butylbenzene	11.769	105	5082	0.083	ppbv	99
69) p-Isopropyltoluene	11.921	119	3686	0.072	ppbv #	90
70) n-Butylbenzene	12.280	91	3779	0.074	ppbv #	92
71) 2-Chlorotoluene	10.901	91	3893	0.106	ppbv	96
72) 4-Ethyltoluene	11.125	105	3451	0.085	ppbv #	92
73) 1,3,5-Trimethylbenzene	11.199	105	2639m	0.078	ppbv	
74) 1,2,4-Trimethylbenzene	11.536	105	3020	0.081	ppbv	95
75) 1,3-Dichlorobenzene	11.607	146	2311	0.099	ppbv	91
76) 1,4-Dichlorobenzene	11.672	146	2018	0.086	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	2527	0.111	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	2290	0.122	ppbv	98
79) Naphthalene	13.513	128	1649	0.047	ppbv #	83
81) 1,2,4-Trichlorobenzene	13.449	180	1037m	0.053	ppbv	

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

