

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120225\
 Data File : VL043294.D
 Acq On : 02 Dec 2025 11:06
 Operator : SY/MD
 Sample : VL1202ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1202ABS01

Quant Time: Dec 03 00:05:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 12/03/2025
 Supervised By : Mahesh Dadoda 12/03/2025

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

Internal Standards						
1) Bromochloromethane	2.794	49	123802	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.969	114	324780	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.892	117	255124	10.000	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.384 95 188447 10.077 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	195459	11.194	ppbv	99
3) Chlorodifluoromethane	1.480	51	179686	10.464	ppbv	97
4) Chloromethane	1.538	50	68083	10.428	ppbv	96
5) Vinyl Chloride	1.586	62	68042	9.530	ppbv	97
6) Bromomethane	1.674	94	33637	9.719	ppbv	95
7) Chloroethane	1.709	64	27571	9.915	ppbv	92
8) Dichlorotetrafluoroethane	1.561	85	161389	11.111	ppbv	98
9) Propene	1.489	41	71511m	9.807	ppbv	
10) Heptane	4.991	43	205732	9.480	ppbv	98
11) Trichlorofluoromethane	1.884	101	204847	12.108	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.146	101	154149	11.671	ppbv	95
13) Ethanol	1.726	45	19708	7.686	ppbv	93
14) Bromoethene	1.787	108	55552	10.971	ppbv	96
15) Acetone	1.839	43	150554	8.753	ppbv	99
16) 1,3-Butadiene	1.612	39	74702	9.742	ppbv	97
17) tert-Butyl alcohol	2.043	59	215553	9.547	ppbv	100
18) 1,1-Dichloroethene	2.040	96	66011	10.734	ppbv	92
19) Isopropyl Alcohol	1.891	45	86559	8.906	ppbv	92
20) Methylene Chloride	2.069	84	61135	12.238	ppbv	91
21) Allyl Chloride	2.101	41	104222	9.006	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	75412	10.729	ppbv	97
23) Vinyl Acetate	2.467	43	197779	9.525	ppbv	99
24) 1,1-Dichloroethane	2.415	63	148426	10.939	ppbv	97
25) Ethyl Acetate	2.839	43	360184	9.709	ppbv	99
26) Hexane	2.833	57	160728	9.882	ppbv	99
27) Carbon Disulfide	2.156	76	187625	11.300	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	85538	10.714	ppbv	97
29) Chloroform	2.855	83	271561	11.747	ppbv	97
30) Cyclohexane	3.868	84	139054	10.198	ppbv	92
31) cis-1,2-Dichloroethene	2.729	61	166681	10.311	ppbv	96
32) 1,1,1-Trichloroethane	3.376	97	273427	11.096	ppbv	99
34) 2-Butanone	2.561	43	229096	9.993	ppbv	100
35) Carbon Tetrachloride	3.771	117	291615	11.829	ppbv	97
36) Benzene	3.664	78	333658	10.727	ppbv	99
37) 1,2-Dichloroethane	3.227	62	206629	11.358	ppbv	99
38) Trichloroethene	4.558	130	134303	11.037	ppbv	98
39) 1,2-Dichloropropane	4.325	63	119295	10.479	ppbv	90
40) 1,4-Dioxane	4.584	88	43421	8.485	ppbv #	95
41) Tetrahydrofuran	3.059	42	118086	9.327	ppbv	99
42) Bromodichloromethane	4.503	83	289858	11.550	ppbv	98
43) Methyl Methacrylate	4.888	69	156420	9.475	ppbv	94
44) 2,2,4-Trimethylpentane	4.652	57	543210	10.169	ppbv	99
45) t-1,3-Dichloropropene	6.428	75	123199	8.005	ppbv	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	147890	8.184	ppbv	99
47) 1,1,2-Trichloroethane	6.594	97	130991	10.843	ppbv	95
48) Dibromochloromethane	7.396	129	239231	11.518	ppbv	100
49) Bromoform	9.490	173	213075	11.581	ppbv	99
50) 4-Methyl-2-Pentanone	5.762	43	301568	9.338	ppbv	98
51) 2-Hexanone	7.442	43	216900	8.649	ppbv #	99
52) Tetrachloroethene	8.235	164	122265	10.568	ppbv	95
53) Toluene	6.946	91	369257	10.026	ppbv	98
54) 1,2-Dibromoethane	7.662	107	177639	9.992	ppbv	92
56) 1,1,1,2-Tetrachloroethane	8.930	131	223471	11.919	ppbv	98
57) Chlorobenzene	8.930	112	299666	11.440	ppbv	98
58) Ethyl Benzene	9.361	91	528294	10.759	ppbv	98
59) m/p-Xylene	9.558	91	868801m	22.068	ppbv	
60) o-Xylene	9.973	91	434822	11.056	ppbv	99
61) Styrene	9.879	104	168689	9.800	ppbv	99
62) Isopropylbenzene	10.545	105	777896	11.056	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	270794	10.821	ppbv	100
64) n-propylbenzene	10.995	120	197680	10.934	ppbv	100
65) tert-Butylbenzene	11.536	119	674888	10.740	ppbv	100
66) Benzyl Chloride	11.623	91	32212	5.051	ppbv	100
67) sec-Butylbenzene	11.772	105	947203	10.799	ppbv	99
69) p-Isopropyltoluene	11.931	119	789416	10.624	ppbv	100
70) n-Butylbenzene	12.287	91	756793	10.499	ppbv	100
71) 2-Chlorotoluene	10.908	91	578579	10.698	ppbv	99
72) 4-Ethyltoluene	11.131	105	522854	10.917	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	437005	10.873	ppbv	95
74) 1,2,4-Trimethylbenzene	11.542	105	484574	11.047	ppbv	98
75) 1,3-Dichlorobenzene	11.614	146	288141	11.257	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	285722	11.160	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	274815	11.167	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	211454	10.296	ppbv	100
79) Naphthalene	13.517	128	392220	10.068	ppbv	99
80) Naphthalene,2-methyl-	14.465	142	91837	8.981	ppbv	98
81) 1,2,4-Trichlorobenzene	13.446	180	193291	11.094	ppbv	99

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

