

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101625\
 Data File : VL043129.D
 Acq On : 16 Oct 2025 13:49
 Operator : SY/MD
 Sample : Q2893-14 0.5 PPB
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2025

Quant Time: Oct 17 01:28:39 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/17/2025
 Supervised By : Mahesh Dadoda 10/17/2025

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

Internal Standards						
1) Bromochloromethane	2.794	49	86521	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.969	114	276491	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	234499	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.384 95 192699 10.572 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	8563	0.696	ppbv	97
3) Chlorodifluoromethane	1.480	51	7465	0.561	ppbv #	91
4) Chloromethane	1.538	50	2855	0.586	ppbv	98
5) Vinyl Chloride	1.583	62	2909	0.609	ppbv	96
6) Bromomethane	1.674	94	1752	0.668	ppbv	92
7) Chloroethane	1.709	64	1328	0.680	ppbv	95
8) Dichlorotetrafluoroethane	1.557	85	6670	0.671	ppbv	99
9) Propene	1.486	41	2708	0.459	ppbv	90
10) Heptane	4.995	43	6877m	0.405	ppbv	
11) Trichlorofluoromethane	1.881	101	8786	0.730	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.146	101	6884	0.711	ppbv	91
13) Ethanol	1.726	45	1592m	0.729	ppbv	
14) Bromoethene	1.787	108	2465	0.685	ppbv #	93
15) Acetone	1.842	43	9449	0.810	ppbv	99
16) 1,3-Butadiene	1.612	39	3797	0.683	ppbv	85
17) tert-Butyl alcohol	2.046	59	10380	0.648	ppbv #	93
18) 1,1-Dichloroethene	2.040	96	2874	0.681	ppbv	92
19) Isopropyl Alcohol	1.891	45	5259	0.724	ppbv #	36
20) Methylene Chloride	2.066	84	3796	0.823	ppbv	95
21) Allyl Chloride	2.101	41	5599	0.652	ppbv #	91
22) trans-1,2-Dichloroethene	2.347	96	3529	0.699	ppbv	84
23) Vinyl Acetate	2.470	43	9091	0.532	ppbv #	95
24) 1,1-Dichloroethane	2.415	63	6604	0.677	ppbv	96
25) Ethyl Acetate	2.846	43	14766	0.511	ppbv	100
26) Hexane	2.836	57	6063	0.455	ppbv	84
27) Carbon Disulfide	2.156	76	7952	0.651	ppbv #	12
28) Methyl tert-Butyl Ether	2.447	73	4728	0.780	ppbv	97
29) Chloroform	2.855	83	11940	0.618	ppbv	91
30) Cyclohexane	3.868	84	5874	0.505	ppbv	91
31) cis-1,2-Dichloroethene	2.726	61	7249	0.570	ppbv	95
32) 1,1,1-Trichloroethane	3.376	97	12264	0.610	ppbv	98
34) 2-Butanone	2.564	43	10195	0.549	ppbv	96
35) Carbon Tetrachloride	3.774	117	12559	0.632	ppbv	98
36) Benzene	3.664	78	13796	0.530	ppbv	95
37) 1,2-Dichloroethane	3.227	62	9513	0.634	ppbv	98
38) Trichloroethene	4.564	130	5382m	0.495	ppbv	
39) 1,2-Dichloropropane	4.321	63	5358	0.563	ppbv #	84
40) 1,4-Dioxane	4.606	88	2177m	0.511	ppbv	
41) Tetrahydrofuran	3.066	42	4763m	0.458	ppbv	
42) Bromodichloromethane	4.499	83	12247	0.590	ppbv #	93
43) Methyl Methacrylate	4.894	69	6042	0.457	ppbv	93
44) 2,2,4-Trimethylpentane	4.652	57	20773	0.473	ppbv	98
45) t-1,3-Dichloropropene	6.428	75	6228m	0.469	ppbv	

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 QLast Update : Wed Oct 15 02:12:58 2025
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Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/17/2025
 Supervised By :Mahesh Dadoda 10/17/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	7675m	0.484	ppbv	
47) 1,1,2-Trichloroethane	6.594	97	5940m	0.578	ppbv	
48) Dibromochloromethane	7.403	129	9713m	0.565	ppbv	
49) Bromoform	9.494	173	7207	0.516	ppbv	97
50) 4-Methyl-2-Pentanone	5.775	43	11136m	0.434	ppbv	
51) 2-Hexanone	7.451	43	8054m	0.419	ppbv	
52) Tetrachloroethene	8.228	164	4737m	0.504	ppbv	
53) Toluene	6.940	91	13908m	0.450	ppbv	
54) 1,2-Dibromoethane	7.662	107	8280	0.514	ppbv	88
56) 1,1,1,2-Tetrachloroethane	8.934	131	8771	0.593	ppbv #	1
57) Chlorobenzene	8.927	112	13025	0.594	ppbv	97
58) Ethyl Benzene	9.358	91	19790	0.492	ppbv	92
59) m/p-Xylene	9.558	91	32430m	1.010	ppbv	
60) o-Xylene	9.973	91	16236	0.512	ppbv	98
61) Styrene	9.879	104	6135	0.429	ppbv	98
62) Isopropylbenzene	10.546	105	30024	0.524	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.973	83	12033	0.567	ppbv	99
64) n-propylbenzene	10.999	120	7706	0.508	ppbv	92
65) tert-Butylbenzene	11.536	119	26966	0.533	ppbv	96
66) Benzyl Chloride	11.623	91	2193m	0.389	ppbv	
67) sec-Butylbenzene	11.775	105	39165	0.545	ppbv	97
69) p-Isopropyltoluene	11.934	119	31693	0.519	ppbv	98
70) n-Butylbenzene	12.290	91	29488	0.490	ppbv	98
71) 2-Chlorotoluene	10.908	91	22193	0.508	ppbv	99
72) 4-Ethyltoluene	11.135	105	19639	0.504	ppbv #	97
73) 1,3,5-Trimethylbenzene	11.209	105	16421	0.511	ppbv	96
74) 1,2,4-Trimethylbenzene	11.542	105	20091	0.558	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	12829	0.615	ppbv	96
76) 1,4-Dichlorobenzene	11.678	146	11708	0.556	ppbv	98
77) 1,2-Dichlorobenzene	11.953	146	12055	0.597	ppbv	98
78) Hexachloro-1,3-Butadiene	13.889	225	9193	0.588	ppbv	93
79) Naphthalene	13.520	128	14690	0.391	ppbv	97
80) Naphthalene,2-methyl-	14.468	142	2922m	0.298	ppbv	
81) 1,2,4-Trichlorobenzene	13.446	180	6640m	0.425	ppbv	

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

