

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042851.D
 Acq On : 13 Aug 2025 14:32
 Operator : SY/MD
 Sample : VL0813ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0813ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 02:17:24 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	116881	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	368200	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	322291	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 244955 10.134 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	159958	9.338	ppbv	100
3) Chlorodifluoromethane	1.479	51	177225	9.360	ppbv	100
4) Chloromethane	1.534	50	62240	9.004	ppbv	99
5) Vinyl Chloride	1.583	62	59335	8.716	ppbv	99
6) Bromomethane	1.670	94	23152	8.505	ppbv	97
7) Chloroethane	1.706	64	23657	8.898	ppbv	91
8) Dichlorotetrafluoroethane	1.557	85	132763	9.471	ppbv	95
9) Propene	1.486	41	71030	8.686	ppbv	97
10) Heptane	4.991	43	199706	9.118	ppbv	98
11) Trichlorofluoromethane	1.881	101	153519	9.084	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	123905	9.198	ppbv	97
13) Ethanol	1.725	45	5608	7.501	ppbv	100
14) Bromoethene	1.784	108	45076	9.244	ppbv	98
15) Acetone	1.839	43	115155	7.448	ppbv	100
16) 1,3-Butadiene	1.612	39	58958	8.412	ppbv	99
17) tert-Butyl alcohol	2.043	59	158939	8.668	ppbv	99
18) 1,1-Dichloroethene	2.036	96	55494	9.371	ppbv	97
19) Isopropyl Alcohol	1.890	45	78860	8.540	ppbv	100
20) Methylene Chloride	2.065	84	48184	7.439	ppbv	90
21) Allyl Chloride	2.101	41	96710	8.854	ppbv	95
22) trans-1,2-Dichloroethene	2.347	96	62464	9.117	ppbv	94
23) Vinyl Acetate	2.467	43	206801	9.728	ppbv	99
24) 1,1-Dichloroethane	2.415	63	123052	8.993	ppbv	98
25) Ethyl Acetate	2.842	43	344281	9.200	ppbv	99
26) Hexane	2.832	57	159005	9.206	ppbv	97
27) Carbon Disulfide	2.156	76	153403	9.126	ppbv #	91
28) Methyl tert-Butyl Ether	2.444	73	84816	9.630	ppbv	93
29) Chloroform	2.855	83	234067	9.492	ppbv	99
30) Cyclohexane	3.865	84	140375	9.270	ppbv	99
31) cis-1,2-Dichloroethene	2.725	61	158712	9.199	ppbv	98
32) 1,1,1-Trichloroethane	3.376	97	245800	9.431	ppbv	100
34) 2-Butanone	2.560	43	224149	9.016	ppbv	100
35) Carbon Tetrachloride	3.771	117	235598	9.281	ppbv	96
36) Benzene	3.664	78	330026	9.360	ppbv	99
37) 1,2-Dichloroethane	3.227	62	181878	9.874	ppbv	98
38) Trichloroethene	4.557	130	144018	8.944	ppbv	95
39) 1,2-Dichloropropane	4.324	63	119442	9.275	ppbv	97
40) 1,4-Dioxane	4.593	88	54081m	8.832	ppbv	
41) Tetrahydrofuran	3.059	42	127578	9.204	ppbv	98
42) Bromodichloromethane	4.502	83	261380	9.522	ppbv	98
43) Methyl Methacrylate	4.894	69	131335	9.042	ppbv	98
44) 2,2,4-Trimethylpentane	4.648	57	540935	9.039	ppbv	100
45) t-1,3-Dichloropropene	6.431	75	152588	9.309	ppbv	99

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QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	189646	9.285	ppbv	98
47) 1,1,2-Trichloroethane	6.597	97	127667	9.357	ppbv	97
48) Dibromochloromethane	7.402	129	207804	9.412	ppbv	100
49) Bromoform	9.493	173	168015	9.228	ppbv	100
50) 4-Methyl-2-Pentanone	5.768	43	312046	9.286	ppbv	100
51) 2-Hexanone	7.448	43	248690	9.404	ppbv	98
52) Tetrachloroethene	8.238	164	107577	8.434	ppbv	94
53) Toluene	6.949	91	386291	9.216	ppbv	100
54) 1,2-Dibromoethane	7.665	107	184932	9.275	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.937	131	156352	9.381	ppbv	98
57) Chlorobenzene	8.933	112	285789	9.326	ppbv	98
58) Ethyl Benzene	9.367	91	534013	9.389	ppbv	99
59) m/p-Xylene	9.565	91	837335m	18.783	ppbv	
60) o-Xylene	9.976	91	417423	9.308	ppbv	100
61) Styrene	9.882	104	197790	9.414	ppbv	99
62) Isopropylbenzene	10.548	105	607606	9.271	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.972	83	221716	8.990	ppbv	100
64) n-propylbenzene	10.998	120	153914	9.205	ppbv	98
65) tert-Butylbenzene	11.539	119	518992	8.983	ppbv	98
66) Benzyl Chloride	11.623	91	62299	8.494	ppbv	99
67) sec-Butylbenzene	11.775	105	741280	9.141	ppbv	99
69) p-Isopropyltoluene	11.934	119	612316	8.795	ppbv	98
70) n-Butylbenzene	12.290	91	629840	9.122	ppbv	98
71) 2-Chlorotoluene	10.911	91	467569	9.188	ppbv	98
72) 4-Ethyltoluene	11.134	105	505391	9.297	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	425759	9.210	ppbv	97
74) 1,2,4-Trimethylbenzene	11.545	105	456933	9.005	ppbv	97
75) 1,3-Dichlorobenzene	11.617	146	259541	8.997	ppbv	98
76) 1,4-Dichlorobenzene	11.681	146	261302	8.957	ppbv	99
77) 1,2-Dichlorobenzene	11.956	146	250432	8.866	ppbv	99
78) Hexachloro-1,3-Butadiene	13.889	225	173363	7.488	ppbv	98
79) Naphthalene	13.520	128	410796	8.930	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	145644	8.473	ppbv	98
81) 1,2,4-Trichlorobenzene	13.445	180	204023	8.824	ppbv	99

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

