

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042931.D
 Acq On : 17 Sep 2025 11:23
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:28:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	158272	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	413841	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	354619	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 277264 10.003 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	22884	1.012	ppbv	94
3) Chlorodifluoromethane	1.476	51	24279	1.020	ppbv	100
4) Chloromethane	1.534	50	9850	1.084	ppbv	98
5) Vinyl Chloride	1.583	62	7971	0.930	ppbv #	83
6) Bromomethane	1.670	94	2772	0.931	ppbv #	80
7) Chloroethane	1.706	64	3374	1.069	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	18455	1.029	ppbv	96
9) Propene	1.486	41	8924	1.027	ppbv	98
10) Heptane	4.981	43	19516m	0.906	ppbv	
11) Trichlorofluoromethane	1.877	101	23589	1.056	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.140	101	17971	1.030	ppbv	98
13) Ethanol	1.722	45	926	1.045	ppbv #	50
14) Bromoethene	1.783	108	6547	1.053	ppbv #	96
15) Acetone	1.839	43	21505	1.106	ppbv	95
16) 1,3-Butadiene	1.609	39	8380	1.031	ppbv	93
17) tert-Butyl alcohol	2.042	59	19857	1.061	ppbv	99
18) 1,1-Dichloroethene	2.036	96	7747	1.014	ppbv	95
19) Isopropyl Alcohol	1.887	45	10765	1.033	ppbv #	1
20) Methylene Chloride	2.062	84	9665	1.142	ppbv	95
21) Allyl Chloride	2.097	41	12905	0.979	ppbv	98
22) trans-1,2-Dichloroethene	2.343	96	9099	1.051	ppbv	91
23) Vinyl Acetate	2.463	43	20319	0.900	ppbv #	96
24) 1,1-Dichloroethane	2.411	63	17097	1.000	ppbv	98
25) Ethyl Acetate	2.835	43	39603	0.954	ppbv	98
26) Hexane	2.826	57	16236	0.911	ppbv	87
27) Carbon Disulfide	2.152	76	23073	1.050	ppbv #	79
28) Methyl tert-Butyl Ether	2.444	73	9873	1.009	ppbv	91
29) Chloroform	2.848	83	29928	1.028	ppbv	93
30) Cyclohexane	3.861	84	11631m	0.867	ppbv	
31) cis-1,2-Dichloroethene	2.722	61	17192	0.988	ppbv	94
32) 1,1,1-Trichloroethane	3.366	97	26292	0.965	ppbv	99
34) 2-Butanone	2.557	43	25950	0.967	ppbv	99
35) Carbon Tetrachloride	3.761	117	28194	0.958	ppbv	91
36) Benzene	3.654	78	34301	0.950	ppbv	95
37) 1,2-Dichloroethane	3.217	62	21496	0.994	ppbv	100
38) Trichloroethene	4.551	130	14609	0.894	ppbv	98
39) 1,2-Dichloropropane	4.318	63	14533m	0.996	ppbv	
40) 1,4-Dioxane	4.599	88	5054m	0.977	ppbv	
41) Tetrahydrofuran	3.062	42	10997	0.834	ppbv	98
42) Bromodichloromethane	4.493	83	30707	0.990	ppbv	99
43) Methyl Methacrylate	4.887	69	10283m	0.849	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	53804	0.894	ppbv	92
45) t-1,3-Dichloropropene	6.415	75	11328m	0.889	ppbv	

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

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	15914m	0.906	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	14628m	0.983	ppbv	
48) Dibromochloromethane	7.386	129	23257	0.998	ppbv	98
49) Bromoform	9.487	173	16990	0.934	ppbv	98
50) 4-Methyl-2-Pentanone	5.765	43	27486m	0.860	ppbv	
51) 2-Hexanone	7.441	43	18604m	0.791	ppbv	
52) Tetrachloroethene	8.224	164	10494	0.935	ppbv	92
53) Toluene	6.933	91	27724m	0.824	ppbv	
54) 1,2-Dibromoethane	7.655	107	18521	0.968	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.927	131	18170	1.006	ppbv #	1
57) Chlorobenzene	8.924	112	31407	0.958	ppbv	95
58) Ethyl Benzene	9.357	91	36048	0.789	ppbv	94
59) m/p-Xylene	9.551	91	62681m	1.623	ppbv	
60) o-Xylene	9.966	91	29945	0.780	ppbv	98
61) Styrene	9.872	104	10595	1.046	ppbv	97
62) Isopropylbenzene	10.542	105	46332	0.829	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	25646	0.925	ppbv	98
64) n-propylbenzene	10.992	120	12151	0.838	ppbv	97
65) tert-Butylbenzene	11.535	119	39439	0.825	ppbv	96
66) Benzyl Chloride	11.616	91	3848	0.867	ppbv	94
67) sec-Butylbenzene	11.769	105	63758	0.877	ppbv	98
69) p-Isopropyltoluene	11.927	119	45477	0.812	ppbv	97
70) n-Butylbenzene	12.283	91	46106	0.899	ppbv	95
71) 2-Chlorotoluene	10.901	91	33505	0.808	ppbv	99
72) 4-Ethyltoluene	11.124	105	34655	0.937	ppbv #	97
73) 1,3,5-Trimethylbenzene	11.202	105	30778	0.810	ppbv	90
74) 1,2,4-Trimethylbenzene	11.535	105	38075	0.853	ppbv	96
75) 1,3-Dichlorobenzene	11.607	146	25315	0.895	ppbv	95
76) 1,4-Dichlorobenzene	11.675	146	23918	0.879	ppbv	97
77) 1,2-Dichlorobenzene	11.947	146	27862	0.976	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	17581	0.964	ppbv	98
79) Naphthalene	13.513	128	21593	0.809	ppbv	95
80) Naphthalene,2-methyl-	14.461	142	5523	1.103	ppbv	94
81) 1,2,4-Trichlorobenzene	13.442	180	12986	0.977	ppbv	96

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

Manual Integrations APPROVED

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
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Response via : Initial Calibration

