

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042749.D
 Acq On : 23 Jul 2025 10:08
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:57:36 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	156293	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	459770	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	410018	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 327673 10.091 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	20935	1.013	ppbv	93
3) Chlorodifluoromethane	1.473	51	27459	1.020	ppbv	99
4) Chloromethane	1.531	50	9047	1.082	ppbv	96
5) Vinyl Chloride	1.580	62	7432	0.900	ppbv	96
6) Bromomethane	1.667	94	3743	1.172	ppbv #	71
7) Chloroethane	1.703	64	3061	0.959	ppbv	99
8) Dichlorotetrafluoroethane	1.551	85	17668	1.040	ppbv	98
9) Propene	1.483	41	10346	1.057	ppbv	95
10) Heptane	4.975	43	26137m	0.993	ppbv	
11) Trichlorofluoromethane	1.874	101	22428	1.053	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	16608	1.026	ppbv	97
13) Ethanol	1.719	45	1620m	1.222	ppbv	
14) Bromoethene	1.780	108	5928	1.034	ppbv #	92
15) Acetone	1.832	43	23119	1.071	ppbv	94
16) 1,3-Butadiene	1.606	39	9416	1.023	ppbv	98
17) tert-Butyl alcohol	2.039	59	19926	1.024	ppbv #	93
18) 1,1-Dichloroethene	2.030	96	8276	1.132	ppbv	95
19) Isopropyl Alcohol	1.884	45	11942	1.041	ppbv #	42
20) Methylene Chloride	2.059	84	7153	1.052	ppbv	90
21) Allyl Chloride	2.091	41	13382	1.006	ppbv	92
22) trans-1,2-Dichloroethene	2.337	96	7909	1.007	ppbv	89
23) Vinyl Acetate	2.457	43	23472	0.897	ppbv #	91
24) 1,1-Dichloroethane	2.405	63	17459	1.081	ppbv	99
25) Ethyl Acetate	2.829	43	48790	1.021	ppbv	97
26) Hexane	2.823	57	22279	1.063	ppbv	98
27) Carbon Disulfide	2.146	76	18488	1.031	ppbv #	1
28) Methyl tert-Butyl Ether	2.434	73	9587	0.968	ppbv	90
29) Chloroform	2.845	83	32880	1.015	ppbv	95
30) Cyclohexane	3.852	84	17824	1.003	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	21979	1.021	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	32003	0.949	ppbv	97
34) 2-Butanone	2.554	43	32783	1.007	ppbv	98
35) Carbon Tetrachloride	3.758	117	32610	0.954	ppbv	92
36) Benzene	3.651	78	44638	1.024	ppbv	98
37) 1,2-Dichloroethane	3.211	62	26909	1.025	ppbv #	96
38) Trichloroethene	4.538	130	21122	1.005	ppbv	93
39) 1,2-Dichloropropane	4.305	63	16622	1.033	ppbv	94
40) 1,4-Dioxane	4.587	88	7811m	1.030	ppbv	
41) Tetrahydrofuran	3.056	42	16097	0.984	ppbv	97
42) Bromodichloromethane	4.480	83	34995m	1.023	ppbv	
43) Methyl Methacrylate	4.868	69	14886m	0.961	ppbv	
44) 2,2,4-Trimethylpentane	4.629	57	72865	1.026	ppbv	99
45) t-1,3-Dichloropropene	6.399	75	15641m	0.900	ppbv	

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	21088m	0.958	ppbv	
47) 1,1,2-Trichloroethane	6.574	97	17646	1.029	ppbv #	82
48) Dibromochloromethane	7.380	129	26259	0.965	ppbv	99
49) Bromoform	9.474	173	23083	0.973	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	41715m	1.006	ppbv	
51) 2-Hexanone	7.435	43	29761	0.939	ppbv #	100
52) Tetrachloroethene	8.215	164	18131	1.001	ppbv	96
53) Toluene	6.927	91	45645	0.976	ppbv	98
54) 1,2-Dibromoethane	7.642	107	24427	1.007	ppbv	85
56) 1,1,1,2-Tetrachloroethane	8.920	131	21319	1.000	ppbv	94
57) Chlorobenzene	8.911	112	41788	1.053	ppbv #	85
58) Ethyl Benzene	9.351	91	63467	0.980	ppbv	98
59) m/p-Xylene	9.545	91	104545m	2.020	ppbv	
60) o-Xylene	9.959	91	52499	1.015	ppbv	99
61) Styrene	9.865	104	20313	0.934	ppbv	97
62) Isopropylbenzene	10.532	105	77278	1.013	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.956	83	32591	0.967	ppbv	100
64) n-propylbenzene	10.985	120	20073	1.009	ppbv	95
65) tert-Butylbenzene	11.526	119	68428	1.010	ppbv	95
66) Benzyl Chloride	11.610	91	4700	0.845	ppbv	96
67) sec-Butylbenzene	11.762	105	101458	1.053	ppbv	99
69) p-Isopropyltoluene	11.921	119	78186	0.995	ppbv	98
70) n-Butylbenzene	12.277	91	74257	0.978	ppbv	98
71) 2-Chlorotoluene	10.895	91	59193	1.012	ppbv	100
72) 4-Ethyltoluene	11.121	105	61199	0.991	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	48901	0.962	ppbv	99
74) 1,2,4-Trimethylbenzene	11.532	105	55153	0.994	ppbv	97
75) 1,3-Dichlorobenzene	11.600	146	39753	1.022	ppbv	97
76) 1,4-Dichlorobenzene	11.665	146	38018	0.999	ppbv	98
77) 1,2-Dichlorobenzene	11.943	146	40835	1.068	ppbv	98
78) Hexachloro-1,3-Butadiene	13.876	225	37228	1.076	ppbv	98
79) Naphthalene	13.510	128	29792	0.907	ppbv	97
80) Naphthalene,2-methyl-	14.449	142	1950	1.184	ppbv #	78
81) 1,2,4-Trichlorobenzene	13.435	180	21929	1.053	ppbv	98

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

