

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042750.D
 Acq On : 23 Jul 2025 10:42
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

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

Quant Time: Jul 24 04:58:18 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	151256	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	446836	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	408626	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 319353 9.869 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	11099	0.555	ppbv	98
3) Chlorodifluoromethane	1.476	51	14291	0.549	ppbv	97
4) Chloromethane	1.531	50	4428	0.547	ppbv	96
5) Vinyl Chloride	1.580	62	3902	0.488	ppbv	97
6) Bromomethane	1.667	94	1717	0.556	ppbv #	38
7) Chloroethane	1.703	64	2102	0.681	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	8971	0.545	ppbv	97
9) Propene	1.483	41	4695	0.496	ppbv #	77
10) Heptane	4.978	43	13003m	0.511	ppbv	
11) Trichlorofluoromethane	1.878	101	11021	0.535	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.137	101	8430	0.538	ppbv	98
13) Ethanol	1.719	45	1066m	0.498	ppbv	
14) Bromoethene	1.781	108	2971	0.536	ppbv #	92
15) Acetone	1.836	43	14012	0.671	ppbv #	88
16) 1,3-Butadiene	1.609	39	5488	0.616	ppbv	100
17) tert-Butyl alcohol	2.040	59	10333	0.549	ppbv #	77
18) 1,1-Dichloroethene	2.033	96	4051	0.572	ppbv	77
19) Isopropyl Alcohol	1.888	45	6478	0.584	ppbv #	81
20) Methylene Chloride	2.059	84	4500	0.684	ppbv	82
21) Allyl Chloride	2.098	41	6829	0.531	ppbv #	80
22) trans-1,2-Dichloroethene	2.341	96	4186	0.551	ppbv	88
23) Vinyl Acetate	2.460	43	12423	0.491	ppbv #	76
24) 1,1-Dichloroethane	2.405	63	7962	0.509	ppbv #	91
25) Ethyl Acetate	2.836	43	23632	0.511	ppbv	97
26) Hexane	2.823	57	10019	0.494	ppbv	90
27) Carbon Disulfide	2.150	76	8670	0.499	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	4937	0.515	ppbv #	79
29) Chloroform	2.849	83	17100	0.546	ppbv #	82
30) Cyclohexane	3.855	84	8596	0.500	ppbv	89
31) cis-1,2-Dichloroethene	2.723	61	11032	0.529	ppbv	99
32) 1,1,1-Trichloroethane	3.367	97	16132	0.494	ppbv	97
34) 2-Butanone	2.557	43	16299	0.515	ppbv	94
35) Carbon Tetrachloride	3.761	117	15207	0.458	ppbv	90
36) Benzene	3.651	78	21800	0.515	ppbv	96
37) 1,2-Dichloroethane	3.215	62	13299	0.521	ppbv #	95
38) Trichloroethene	4.548	130	10097m	0.494	ppbv	
39) 1,2-Dichloropropane	4.312	63	8291	0.530	ppbv #	90
40) 1,4-Dioxane	4.606	88	3963m	0.538	ppbv	
41) Tetrahydrofuran	3.056	42	8064m	0.507	ppbv	
42) Bromodichloromethane	4.487	83	16080m	0.484	ppbv	
43) Methyl Methacrylate	4.881	69	7162m	0.476	ppbv	
44) 2,2,4-Trimethylpentane	4.639	57	33853	0.490	ppbv	93
45) t-1,3-Dichloropropene	6.412	75	7968m	0.472	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	9709m	0.454	ppbv	
47) 1,1,2-Trichloroethane	6.574	97	8782m	0.527	ppbv	
48) Dibromochloromethane	7.383	129	12723m	0.481	ppbv	
49) Bromoform	9.481	173	10801	0.468	ppbv	97
50) 4-Methyl-2-Pentanone	5.768	43	19575m	0.486	ppbv	
51) 2-Hexanone	7.448	43	12813m	0.416	ppbv	
52) Tetrachloroethene	8.218	164	8359	0.475	ppbv #	81
53) Toluene	6.924	91	21324	0.469	ppbv	95
54) 1,2-Dibromoethane	7.649	107	12294m	0.521	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.924	131	11191	0.527	ppbv #	1
57) Chlorobenzene	8.921	112	20828	0.527	ppbv #	84
58) Ethyl Benzene	9.354	91	29134	0.451	ppbv	96
59) m/p-Xylene	9.549	91	47028m	0.912	ppbv	
60) o-Xylene	9.963	91	23603	0.458	ppbv	100
61) Styrene	9.872	104	9195	0.424	ppbv	97
62) Isopropylbenzene	10.539	105	35189	0.463	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.956	83	15544	0.463	ppbv	99
64) n-propylbenzene	10.989	120	8924	0.450	ppbv	99
65) tert-Butylbenzene	11.529	119	30560	0.453	ppbv	95
66) Benzyl Chloride	11.617	91	2336m	0.421	ppbv	
67) sec-Butylbenzene	11.766	105	44169	0.460	ppbv	100
69) p-Isopropyltoluene	11.924	119	33104	0.423	ppbv	99
70) n-Butylbenzene	12.280	91	29048	0.384	ppbv	99
71) 2-Chlorotoluene	10.902	91	27184	0.466	ppbv	97
72) 4-Ethyltoluene	11.125	105	26395	0.429	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.206	105	22392	0.442	ppbv #	85
74) 1,2,4-Trimethylbenzene	11.536	105	22772	0.412	ppbv	96
75) 1,3-Dichlorobenzene	11.607	146	18680	0.482	ppbv	96
76) 1,4-Dichlorobenzene	11.669	146	17616	0.465	ppbv	97
77) 1,2-Dichlorobenzene	11.947	146	18799	0.494	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	18330	0.532	ppbv	99
79) Naphthalene	13.514	128	9916	0.592	ppbv	97
80) Naphthalene,2-methyl-	14.481	142	731	1.148	ppbv #	61
81) 1,2,4-Trichlorobenzene	13.436	180	7453	0.645	ppbv	95

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

