

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042228.D
 Acq On : 07 Apr 2025 09:31
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/08/2025
 Supervised By : Mahesh Dadoda 04/09/2025

Quant Time: Apr 08 01:50:24 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	190462	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	513778	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	464477	10.000	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 380328 9.971 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	273290	9.718	ppbv	100
3) Chlorodifluoromethane	1.479	51	273791	9.530	ppbv	97
4) Chloromethane	1.538	50	110890	9.649	ppbv	96
5) Vinyl Chloride	1.586	62	101851	8.363	ppbv	98
6) Bromomethane	1.674	94	47719	9.162	ppbv	99
7) Chloroethane	1.709	64	41389	8.972	ppbv	95
8) Dichlorotetrafluoroethane	1.560	85	230557	9.627	ppbv	94
9) Propene	1.489	41	103393	7.852	ppbv	99
10) Heptane	5.007	43	307160m	8.770	ppbv	
11) Trichlorofluoromethane	1.884	101	261667	9.563	ppbv	98
12) 1,1,2-Trichlorotrifluoro...	2.149	101	209865	9.331	ppbv	98
13) Ethanol	1.729	45	6198	4.979	ppbv	84
14) Bromoethene	1.787	108	72937	8.465	ppbv	98
15) Acetone	1.842	43	229629	8.621	ppbv	94
16) 1,3-Butadiene	1.615	39	109521	8.419	ppbv	100
17) tert-Butyl alcohol	2.049	59	281754	8.492	ppbv	100
18) 1,1-Dichloroethene	2.043	96	94213	8.960	ppbv	97
19) Isopropyl Alcohol	1.894	45	132147	8.793	ppbv	98
20) Methylene Chloride	2.069	84	80384	8.103	ppbv	91
21) Allyl Chloride	2.104	41	167907	8.938	ppbv	96
22) trans-1,2-Dichloroethene	2.350	96	105790	8.705	ppbv	94
23) Vinyl Acetate	2.473	43	97959	8.497	ppbv	98
24) 1,1-Dichloroethane	2.418	63	210138	9.328	ppbv	98
25) Ethyl Acetate	2.849	43	632090	9.143	ppbv	100
26) Hexane	2.839	57	241568	9.046	ppbv	98
27) Carbon Disulfide	2.159	76	262150	9.155	ppbv	96
28) Methyl tert-Butyl Ether	2.450	73	145310	8.740	ppbv	94
29) Chloroform	2.862	83	397772	10.178	ppbv	98
30) Cyclohexane	3.875	84	204416	8.816	ppbv	96
31) cis-1,2-Dichloroethene	2.732	61	246306	9.085	ppbv	98
32) 1,1,1-Trichloroethane	3.383	97	409916	9.162	ppbv	99
34) 2-Butanone	2.570	43	358832	9.632	ppbv	99
35) Carbon Tetrachloride	3.781	117	425964	10.613	ppbv	99
36) Benzene	3.674	78	490813	9.636	ppbv	99
37) 1,2-Dichloroethane	3.234	62	314121	10.772	ppbv	98
38) Trichloroethene	4.574	130	202154	9.512	ppbv	97
39) 1,2-Dichloropropane	4.337	63	175704	9.472	ppbv	92
40) 1,4-Dioxane	4.606	88	86664	8.803	ppbv #	92
41) Tetrahydrofuran	3.069	42	199313	9.290	ppbv	98
42) Bromodichloromethane	4.512	83	430997	10.721	ppbv	99
43) Methyl Methacrylate	4.907	69	185545	8.605	ppbv	98
44) 2,2,4-Trimethylpentane	4.664	57	824962	9.584	ppbv	97
45) t-1,3-Dichloropropene	6.444	75	201676	8.718	ppbv	98

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	252032	8.888	ppbv	96
47) 1,1,2-Trichloroethane	6.610	97	200780	10.239	ppbv	95
48) Dibromochloromethane	7.412	129	346881	10.438	ppbv	100
49) Bromoform	9.500	173	296338	9.932	ppbv	100
50) 4-Methyl-2-Pentanone	5.781	43	511581	8.665	ppbv	96
51) 2-Hexanone	7.461	43	412183	8.501	ppbv #	94
52) Tetrachloroethene	8.244	164	168107	8.322	ppbv	96
53) Toluene	6.959	91	560665	9.286	ppbv	99
54) 1,2-Dibromoethane	7.678	107	277561	10.154	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.943	131	274135	10.722	ppbv	99
57) Chlorobenzene	8.940	112	456787	10.368	ppbv	97
58) Ethyl Benzene	9.374	91	815771	9.888	ppbv	99
59) m/p-Xylene	9.568	91	1363568m	20.698	ppbv	
60) o-Xylene	9.982	91	679193	10.284	ppbv	98
61) Styrene	9.888	104	314809	9.635	ppbv	100
62) Isopropylbenzene	10.555	105	1013803	10.265	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.979	83	427404	10.651	ppbv	100
64) n-propylbenzene	11.005	120	265137	10.429	ppbv	99
65) tert-Butylbenzene	11.545	119	928989	10.171	ppbv	99
66) Benzyl Chloride	11.630	91	72224	7.452	ppbv	99
67) sec-Butylbenzene	11.782	105	1298645	10.229	ppbv	100
69) p-Isopropyltoluene	11.940	119	1128593	10.324	ppbv	99
70) n-Butylbenzene	12.296	91	1165845	10.428	ppbv	100
71) 2-Chlorotoluene	10.918	91	787527	10.274	ppbv	100
72) 4-Ethyltoluene	11.141	105	857021	10.422	ppbv	99
73) 1,3,5-Trimethylbenzene	11.219	105	735306	10.239	ppbv	100
74) 1,2,4-Trimethylbenzene	11.552	105	821957	9.935	ppbv	93
75) 1,3-Dichlorobenzene	11.623	146	485669	10.703	ppbv	99
76) 1,4-Dichlorobenzene	11.685	146	488661	10.821	ppbv	98
77) 1,2-Dichlorobenzene	11.963	146	480373	10.873	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	388827	8.646	ppbv	100
79) Naphthalene	13.526	128	956597	10.570	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	462373	10.419	ppbv	98
81) 1,2,4-Trichlorobenzene	13.455	180	412677	9.886	ppbv	98

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

