

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
 Data File : VL043191.D
 Acq On : 13 Nov 2025 09:01
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Nov 14 04:35:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/18/2025
 Supervised By : Mahesh Dadoda 11/18/2025

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

Internal Standards						
1) Bromochloromethane	2.794	49	141757	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.969	114	379323	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	324654	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.384	95	262602	10.406	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.100%

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	1.502	85	186958	9.277	ppbv	98
3) Chlorodifluoromethane	1.480	51	207578	9.520	ppbv	99
4) Chloromethane	1.538	50	66004	8.267	ppbv	100
5) Vinyl Chloride	1.586	62	65529	8.368	ppbv	97
6) Bromomethane	1.674	94	38785	9.032	ppbv	97
7) Chloroethane	1.709	64	26067	8.142	ppbv	98
8) Dichlorotetrafluoroethane	1.560	85	149728	9.192	ppbv	92
9) Propene	1.489	41	79350	8.205	ppbv	99
10) Heptane	4.995	43	257113	9.235	ppbv	98
11) Trichlorofluoromethane	1.884	101	203965	10.347	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	157214	9.906	ppbv	96
13) Ethanol	1.726	45	22877	6.395	ppbv	95
14) Bromoethene	1.787	108	55856	9.474	ppbv	99
15) Acetone	1.839	43	157089	8.222	ppbv	100
16) 1,3-Butadiene	1.612	39	71284	7.828	ppbv	100
17) tert-Butyl alcohol	2.043	59	212144	8.089	ppbv	99
18) 1,1-Dichloroethene	2.039	96	67616	9.773	ppbv	92
19) Isopropyl Alcohol	1.891	45	89741	7.541	ppbv	90
20) Methylene Chloride	2.069	84	61280	8.114	ppbv	97
21) Allyl Chloride	2.101	41	118968	8.450	ppbv	98
22) trans-1,2-Dichloroethene	2.347	96	77213	9.336	ppbv	97
23) Vinyl Acetate	2.467	43	288816	10.319	ppbv #	99
24) 1,1-Dichloroethane	2.415	63	148680	9.305	ppbv	99
25) Ethyl Acetate	2.839	43	458770	9.682	ppbv	99
26) Hexane	2.836	57	208153	9.534	ppbv	99
27) Carbon Disulfide	2.156	76	192431	9.620	ppbv	100
28) Methyl tert-Butyl Ether	2.447	73	84272	8.484	ppbv	95
29) Chloroform	2.855	83	307588	9.723	ppbv	100
30) Cyclohexane	3.868	84	161792	8.490	ppbv	98
31) cis-1,2-Dichloroethene	2.729	61	192730	9.244	ppbv	99
32) 1,1,1-Trichloroethane	3.376	97	292767	8.887	ppbv	97
34) 2-Butanone	2.561	43	304449	11.940	ppbv	98
35) Carbon Tetrachloride	3.774	117	302120	11.078	ppbv	95
36) Benzene	3.668	78	394397	11.039	ppbv	97
37) 1,2-Dichloroethane	3.227	62	227409	11.049	ppbv	98
38) Trichloroethene	4.561	130	143231	9.599	ppbv	99
39) 1,2-Dichloropropane	4.328	63	147718	11.310	ppbv	97
40) 1,4-Dioxane	4.590	88	57344	9.811	ppbv #	95
41) Tetrahydrofuran	3.059	42	152660	10.704	ppbv	96
42) Bromodichloromethane	4.499	83	321852	11.299	ppbv	99
43) Methyl Methacrylate	4.891	69	184954	10.193	ppbv	99
44) 2,2,4-Trimethylpentane	4.655	57	685708	11.376	ppbv	99
45) t-1,3-Dichloropropene	6.428	75	172223	9.458	ppbv	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	216380	9.947	ppbv	99
47) 1,1,2-Trichloroethane	6.590	97	154071	10.924	ppbv	97
48) Dibromochloromethane	7.396	129	253004	10.729	ppbv	100
49) Bromoform	9.493	173	223457	11.657	ppbv	100
50) 4-Methyl-2-Pentanone	5.762	43	383415	10.896	ppbv	97
51) 2-Hexanone	7.445	43	290059	10.990	ppbv #	95
52) Tetrachloroethene	8.238	164	129582	10.058	ppbv	96
53) Toluene	6.946	91	417333	9.842	ppbv	100
54) 1,2-Dibromoethane	7.662	107	230500	10.434	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.934	131	238374	11.648	ppbv	100
57) Chlorobenzene	8.930	112	338588	11.148	ppbv	98
58) Ethyl Benzene	9.364	91	587423	10.543	ppbv	99
59) m/p-Xylene	9.558	91	981214m	22.079	ppbv	
60) o-Xylene	9.973	91	486760	11.090	ppbv	100
61) Styrene	9.879	104	195183	9.851	ppbv	99
62) Isopropylbenzene	10.549	105	881218	11.111	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	340692	11.592	ppbv	100
64) n-propylbenzene	10.995	120	234766	11.181	ppbv	95
65) tert-Butylbenzene	11.539	119	751341	10.727	ppbv	99
66) Benzyl Chloride	11.623	91	66547	8.537	ppbv	100
67) sec-Butylbenzene	11.775	105	1102574	11.092	ppbv	100
69) p-Isopropyltoluene	11.934	119	898238	10.634	ppbv	99
70) n-Butylbenzene	12.287	91	919213	11.043	ppbv	100
71) 2-Chlorotoluene	10.908	91	665438	11.000	ppbv	100
72) 4-Ethyltoluene	11.131	105	610233	11.307	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	498832	11.207	ppbv	97
74) 1,2,4-Trimethylbenzene	11.546	105	550086	11.044	ppbv	88
75) 1,3-Dichlorobenzene	11.613	146	340928	11.801	ppbv	98
76) 1,4-Dichlorobenzene	11.678	146	335522	11.518	ppbv	98
77) 1,2-Dichlorobenzene	11.953	146	324755	11.620	ppbv	98
78) Hexachloro-1,3-Butadiene	13.889	225	225968	10.443	ppbv	99
79) Naphthalene	13.520	128	543024	10.430	ppbv	99
80) Naphthalene,2-methyl-	14.465	142	133878	9.870	ppbv	99
81) 1,2,4-Trichlorobenzene	13.449	180	230586	10.671	ppbv	99

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

