

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
 Data File : VN088069.D
 Acq On : 17 Oct 2025 16:00
 Operator : JC\MD
 Sample : Q3385-03MSD 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WWMSD

Quant Time: Oct 18 01:31:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 09 02:36:32 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/20/2025
 Supervised By : Mahesh Dadoda 10/20/2025

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

Internal Standards						
1) Bromochloromethane	7.800	128	62360	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	360102	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	317295	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	159710	32.890	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 109.633%	
60) 4-Bromofluorobenzene	12.829	95	155658	29.758	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 99.200%	
63) Toluene-d8	10.541	98	443618	31.380	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 104.600%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	84726	23.721	ug/l	91
3) Chloromethane	2.383	50	79025	19.515	ug/l	98
4) Vinyl Chloride	2.536	62	89478	21.191	ug/l	99
5) Bromomethane	2.983	94	49557	21.826	ug/l	97
6) Chloroethane	3.142	64	59812	21.474	ug/l	95
7) Trichlorofluoromethane	3.518	101	141412	24.629	ug/l	97
8) Diethyl Ether	3.965	74	52941	20.406	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	77579	25.240	ug/l	95
10) 1,1-Dichloroethene	4.342	96	74546	22.736	ug/l	96
11) Methyl Iodide	4.589	142	53329	17.648	ug/l	97
12) Methyl Acetate	5.012	43	117205	21.988	ug/l #	85
13) Acrolein	4.177	56	79365	96.215	ug/l #	12
14) Acrylonitrile	5.706	53	249820	97.118	ug/l	99
15) Acetone	4.418	58	658291	873.846	ug/l	94
16) Carbon Disulfide	4.706	76	208589	20.294	ug/l	97
17) Allyl chloride	5.012	41	128015	20.691	ug/l	100
18) Methylene Chloride	5.265	84	82831	19.876	ug/l	96
19) trans-1,2-Dichloroethene	5.777	96	74990	19.782	ug/l #	85
20) Diisopropyl ether	6.659	45	273688	19.430	ug/l	97
21) 1,1-Dichloroethane	6.553	63	151011	20.594	ug/l	95
22) cis-1,2-Dichloroethene	7.471	96	90580	19.088	ug/l	95
23) tert-Butyl Alcohol	5.518	59	111714	108.285	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	273820	19.348	ug/l	99
25) Chloroform	7.947	83	280935	37.127	ug/l	96
26) Cyclohexane	8.241	56	131824	21.698	ug/l #	95
29) 1,1-Dichloropropene	8.353	75	108524	21.025	ug/l	95
30) 2-Butanone	7.471	43	362613	95.251	ug/l	97
31) 2,2-Dichloropropane	7.477	77	135045	20.305	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	135598	21.024	ug/l	97
33) Carbon Tetrachloride	8.341	117	113985	21.099	ug/l	95
34) Benzene	8.588	78	327299	19.117	ug/l	97
35) Methacrylonitrile	7.765	41	74584	18.631	ug/l	94
36) 1,2-Dichloroethane	8.653	62	118196	19.886	ug/l	99
37) Trichloroethene	9.335	130	75946	18.723	ug/l	91
38) Methylcyclohexane	9.582	83	132603	20.802	ug/l	96
39) 1,2-Dichloropropane	9.600	63	82883	19.307	ug/l	100
40) Dibromomethane	9.688	93	59013	18.885	ug/l	93
41) Bromodichloromethane	9.865	83	130021	20.372	ug/l	98
42) Vinyl Acetate	6.588	43	1284894	99.074	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	130514	17.835	ug/l #	81
44) Isopropyl Acetate	8.671	43	219835	18.392	ug/l	96
45) 1,4-Dioxane	9.682	88	33536	421.867	ug/l	96
46) Methyl methacrylate	9.659	41	100825	19.155	ug/l	94
47) n-amyl Acetate	12.553	43	142487m	25.151	ug/l	
48) t-1,3-Dichloropropene	10.812	75	130834	18.436	ug/l	100
49) cis-1,3-Dichloropropene	10.288	75	136675	18.463	ug/l	96
50) 1,1,2-Trichloroethane	10.994	97	77489	18.725	ug/l	98
51) Ethyl methacrylate	10.853	69	128302	18.320	ug/l	99
52) 1,3-Dichloropropane	11.141	76	135965	18.832	ug/l	98
53) Dibromochloromethane	11.335	129	90490	18.291	ug/l	100
54) 1,2-Dibromoethane	11.447	107	81678	18.462	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	168306	44.522	ug/l	98
56) Bromoform	12.559	173	56150	16.788	ug/l #	99
58) 4-Methyl-2-Pentanone	10.423	43	693012	97.647	ug/l	98
59) 2-Hexanone	11.176	43	457862	97.713	ug/l	98
61) Tetrachloroethene	11.082	164	60333	18.777	ug/l	89
62) Toluene	10.612	91	349848	19.438	ug/l	98
64) Chlorobenzene	11.870	112	215429	18.740	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.935	131	75119	18.961	ug/l	97
66) Ethyl Benzene	11.941	91	391022	19.980	ug/l	98
67) m/p-Xylenes	12.047	106	297675	39.456	ug/l	97
68) o-Xylene	12.376	106	144826	19.283	ug/l	97
69) Styrene	12.388	104	238678	19.211	ug/l	98
70) Isopropylbenzene	12.670	105	370230	20.113	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.917	83	122344	19.604	ug/l	97
72) 1,2,3-Trichloropropane	12.970	75	111947m	19.315	ug/l	
73) Bromobenzene	12.959	156	79098	17.581	ug/l	87
74) n-propylbenzene	13.012	91	463682	20.866	ug/l	97
75) 2-Chlorotoluene	13.100	91	271632	19.992	ug/l	96
76) 1,3,5-Trimethylbenzene	13.147	105	308237	19.713	ug/l	96
77) t-1,4-Dichloro-2-butene	12.717	75	39552	17.124	ug/l	77
78) 4-Chlorotoluene	13.200	91	270907	19.625	ug/l	99
79) tert-butylbenzene	13.417	119	276330	20.386	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	315198	20.136	ug/l	96
81) sec-Butylbenzene	13.594	105	396601	20.810	ug/l	97
82) p-Isopropyltoluene	13.706	119	333050	20.469	ug/l	97
83) 1,3-Dichlorobenzene	13.711	146	158593	18.735	ug/l	95
84) 1,4-Dichlorobenzene	13.788	146	167018	19.131	ug/l	98
85) n-Butylbenzene	14.029	91	313863	20.734	ug/l	98
86) Hexachloroethane	14.306	117	62160	19.070	ug/l	89
87) 1,2-Dichlorobenzene	14.082	146	151773	18.228	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.700	75	29396	20.509	ug/l	89
89) 1,2,4-Trichlorobenzene	15.811	180	85763	17.293	ug/l	98
90) Hexachlorobutadiene	15.476	225	34075	19.741	ug/l	97
91) Naphthalene	15.611	128	326560	17.985	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	85763	17.293	ug/l	98

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

