

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
 Data File : VN087715.D
 Acq On : 04 Sep 2025 12:04
 Operator : JC\MD
 Sample : VN0904WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 05 02:18:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin
 Yesilyurt

09/05/2025
 Supervised By : Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	7.794	128	43425	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	231247	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	210355	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	114466	28.579	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.267%		
60) 4-Bromofluorobenzene	12.829	95	99936	27.606	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	92.033%		
63) Toluene-d8	10.547	98	291239	30.090	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.300%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	54934	19.376	ug/l	99
3) Chloromethane	2.383	50	54828	18.849	ug/l	97
4) Vinyl Chloride	2.536	62	62242	20.174	ug/l	91
5) Bromomethane	2.983	94	43809	26.234	ug/l	87
6) Chloroethane	3.142	64	41428	20.824	ug/l	97
7) Trichlorofluoromethane	3.512	101	97817	22.030	ug/l	97
8) Diethyl Ether	3.959	74	38375	20.745	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	52713m	23.281	ug/l	
10) 1,1-Dichloroethene	4.342	96	53428	22.464	ug/l	85
11) Methyl Iodide	4.577	142	33539	17.910	ug/l	96
12) Methyl Acetate	5.018	43	95525	21.765	ug/l	93
13) Acrolein	4.177	56	63454	94.659	ug/l	99
14) Acrylonitrile	5.700	53	171327	89.396	ug/l	99
15) Acetone	4.424	58	55649	101.625	ug/l	96
16) Carbon Disulfide	4.700	76	133566	18.104	ug/l	99
17) Allyl chloride	5.012	41	85883	17.716	ug/l	88
18) Methylene Chloride	5.265	84	57999	18.943	ug/l	87
19) trans-1,2-Dichloroethene	5.771	96	51291	18.135	ug/l #	86
20) Diisopropyl ether	6.653	45	195895	17.739	ug/l	93
21) 1,1-Dichloroethane	6.553	63	108065	18.931	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	63685	18.300	ug/l	96
23) tert-Butyl Alcohol	5.524	59	61811	75.900	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	185640	17.130	ug/l	96
25) Chloroform	7.947	83	112463	18.874	ug/l	91
26) Cyclohexane	8.241	56	79309	17.353	ug/l #	94
29) 1,1-Dichloropropene	8.347	75	73391	19.459	ug/l	97
30) 2-Butanone	7.465	43	254727	91.624	ug/l	99
31) 2,2-Dichloropropane	7.477	77	94769	19.482	ug/l	99
32) 1,1,1-Trichloroethane	8.147	97	95796	19.915	ug/l	96
33) Carbon Tetrachloride	8.341	117	77776	19.463	ug/l	98
34) Benzene	8.588	78	227927	19.144	ug/l	94
35) Methacrylonitrile	7.765	41	50954	16.984	ug/l	94
36) 1,2-Dichloroethane	8.647	62	88092	18.306	ug/l	100
37) Trichloroethene	9.335	130	50547	19.274	ug/l	83
38) Methylcyclohexane	9.582	83	77129	17.627	ug/l	98
39) 1,2-Dichloropropane	9.600	63	59488	19.488	ug/l	96
40) Dibromomethane	9.688	93	45777	19.987	ug/l	96
41) Bromodichloromethane	9.865	83	90003	18.911	ug/l	88
42) Vinyl Acetate	6.588	43	788902	86.167	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.541	43	96992	18.059	ug/l	99
44) Isopropyl Acetate	8.677	43	160457	17.624	ug/l	99
45) 1,4-Dioxane	9.682	88	19577	337.304	ug/l #	88
46) Methyl methacrylate	9.665	41	70145	16.322	ug/l	82
47) n-amyl Acetate	12.665	43	87889m	17.475	ug/l	
48) t-1,3-Dichloropropene	10.818	75	91571	17.686	ug/l	100
49) cis-1,3-Dichloropropene	10.288	75	96006	18.425	ug/l	90
50) 1,1,2-Trichloroethane	10.994	97	56983	19.692	ug/l	98
51) Ethyl methacrylate	10.859	69	85447	16.766	ug/l	97
52) 1,3-Dichloropropane	11.141	76	98490	18.892	ug/l	97
53) Dibromochloromethane	11.335	129	62738	18.773	ug/l	96
54) 1,2-Dibromoethane	11.453	107	59585	19.397	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	236450	88.133	ug/l	99
56) Bromoform	12.559	173	39771	17.992	ug/l #	98
58) 4-Methyl-2-Pentanone	10.423	43	493774	91.248	ug/l	99
59) 2-Hexanone	11.176	43	307348	83.593	ug/l	98
61) Tetrachloroethene	11.082	164	41450	20.226	ug/l	94
62) Toluene	10.606	91	246270	18.968	ug/l	99
64) Chlorobenzene	11.870	112	153403	19.229	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.935	131	53989	19.248	ug/l	99
66) Ethyl Benzene	11.941	91	265786	18.367	ug/l	99
67) m/p-Xylenes	12.053	106	199557	37.569	ug/l	92
68) o-Xylene	12.376	106	93531	17.899	ug/l	100
69) Styrene	12.394	104	160997	18.043	ug/l	97
70) Isopropylbenzene	12.676	105	246218	18.546	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.917	83	89634	19.705	ug/l	99
72) 1,2,3-Trichloropropane	12.976	75	84640m	19.973	ug/l	
73) Bromobenzene	12.959	156	60686	19.718	ug/l	94
74) n-propylbenzene	13.012	91	312613	18.854	ug/l	98
75) 2-Chlorotoluene	13.100	91	190294	18.658	ug/l	98
76) 1,3,5-Trimethylbenzene	13.153	105	208218	18.317	ug/l	97
77) t-1,4-Dichloro-2-butene	12.717	75	26432	16.477	ug/l	86
78) 4-Chlorotoluene	13.200	91	194600	18.828	ug/l	97
79) tert-butylbenzene	13.417	119	177581	18.529	ug/l	96
80) 1,2,4-Trimethylbenzene	13.459	105	211280	18.601	ug/l	100
81) sec-Butylbenzene	13.594	105	262011	18.779	ug/l	100
82) p-Isopropyltoluene	13.706	119	218207	18.836	ug/l	97
83) 1,3-Dichlorobenzene	13.712	146	113472	19.362	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	117304	19.743	ug/l	100
85) n-Butylbenzene	14.035	91	208098	18.360	ug/l	99
86) Hexachloroethane	14.311	117	43424	19.195	ug/l	98
87) 1,2-Dichlorobenzene	14.082	146	110728	19.793	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.700	75	20838	18.083	ug/l	97
89) 1,2,4-Trichlorobenzene	15.806	180	61968	18.535	ug/l	99
90) Hexachlorobutadiene	15.470	225	22537	17.336	ug/l	89
91) Naphthalene	15.617	128	221459	17.372	ug/l	100
92) 1,2,3-Trichlorobenzene	15.806	180	61968	18.535	ug/l	99

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

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