

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091725\
 Data File : VN087871.D
 Acq On : 17 Sep 2025 11:30
 Operator : JC\MD
 Sample : VN0917WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0917WBSD01

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Sep 18 03:08:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 05 03:29:53 2025
 Response via : Initial Calibration

09/18/2025
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	7.794	128	52165	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	278561	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	250388	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	128412	28.817	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	96.067%
60) 4-Bromofluorobenzene	12.829	95	122450	30.415	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	101.367%
63) Toluene-d8	10.547	98	342293	29.396	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	65259	20.129	ug/l	99
3) Chloromethane	2.383	50	55927	16.432	ug/l	99
4) Vinyl Chloride	2.542	62	60861	15.819	ug/l	98
5) Bromomethane	2.977	94	32335	14.327	ug/l	89
6) Chloroethane	3.136	64	38628	14.691	ug/l	87
7) Trichlorofluoromethane	3.512	101	101568	18.011	ug/l	95
8) Diethyl Ether	3.953	74	38295	16.081	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.365	101	58735	19.229	ug/l	75
10) 1,1-Dichloroethene	4.336	96	52514	16.675	ug/l	94
11) Methyl Iodide	4.577	142	35959	16.131	ug/l	82
12) Methyl Acetate	5.012	43	103011	21.220	ug/l	97
13) Acrolein	4.177	56	104244m	120.607	ug/l	
14) Acrylonitrile	5.706	53	208602	99.833	ug/l	97
15) Acetone	4.430	58	58501m	89.748	ug/l	
16) Carbon Disulfide	4.706	76	147396	17.047	ug/l #	89
17) Allyl chloride	5.012	41	93289	18.137	ug/l	94
18) Methylene Chloride	5.265	84	72990	20.461	ug/l	92
19) trans-1,2-Dichloroethene	5.777	96	60253	18.760	ug/l	91
20) Diisopropyl ether	6.665	45	220158	18.613	ug/l #	93
21) 1,1-Dichloroethane	6.553	63	129006	19.916	ug/l #	97
22) cis-1,2-Dichloroethene	7.471	96	77562	19.896	ug/l	99
23) tert-Butyl Alcohol	5.512	59	77835m	105.377	ug/l	
24) Methyl tert-Butyl Ether	5.783	73	229615	20.423	ug/l #	83
25) Chloroform	7.947	83	133855	19.742	ug/l	89
26) Cyclohexane	8.235	56	95526	19.365	ug/l #	99
29) 1,1-Dichloropropene	8.353	75	83670	18.482	ug/l	96
30) 2-Butanone	7.471	43	301515	96.683	ug/l	99
31) 2,2-Dichloropropane	7.477	77	110028	20.162	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	116982	20.382	ug/l	98
33) Carbon Tetrachloride	8.347	117	96571	20.180	ug/l	97
34) Benzene	8.588	78	275879	18.855	ug/l	94
35) Methacrylonitrile	7.765	41	58704	17.996	ug/l	95
36) 1,2-Dichloroethane	8.653	62	102965	18.631	ug/l	99
37) Trichloroethene	9.335	130	66677	20.386	ug/l	98
38) Methylcyclohexane	9.582	83	98311	19.722	ug/l	96
39) 1,2-Dichloropropane	9.600	63	71195	18.998	ug/l	97
40) Dibromomethane	9.688	93	53021	19.012	ug/l	93
41) Bromodichloromethane	9.871	83	108842	19.095	ug/l #	93
42) Vinyl Acetate	6.588	43	1043406	100.137	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	123992	19.460	ug/l	99
44) Isopropyl Acetate	8.671	43	191251	19.147	ug/l	99
45) 1,4-Dioxane	9.676	88	27423	435.342	ug/l	94
46) Methyl methacrylate	9.665	41	83421	18.119	ug/l	91
47) n-amyl Acetate	12.594	43	94473m	13.996	ug/l	
48) t-1,3-Dichloropropene	10.818	75	113205	19.122	ug/l	89
49) cis-1,3-Dichloropropene	10.294	75	115068	18.977	ug/l	95
50) 1,1,2-Trichloroethane	10.994	97	73088	20.291	ug/l	97
51) Ethyl methacrylate	10.859	69	102178	18.228	ug/l	96
52) 1,3-Dichloropropane	11.141	76	119718	19.140	ug/l	97
53) Dibromochloromethane	11.341	129	83149	20.588	ug/l	92
54) 1,2-Dibromoethane	11.447	107	75402	20.118	ug/l	97
55) 2-Chloroethyl vinyl ether	10.141	63	297054	92.489	ug/l	97
56) Bromoform	12.559	173	54997	20.852	ug/l	99
58) 4-Methyl-2-Pentanone	10.423	43	589811	99.624	ug/l	98
59) 2-Hexanone	11.176	43	384238	99.322	ug/l	96
61) Tetrachloroethene	11.082	164	55692	22.340	ug/l	94
62) Toluene	10.612	91	300459	19.838	ug/l	98
64) Chlorobenzene	11.870	112	193335	20.798	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	70373	21.503	ug/l	95
66) Ethyl Benzene	11.941	91	328182	20.085	ug/l	94
67) m/p-Xylenes	12.053	106	253304	41.763	ug/l	92
68) o-Xylene	12.376	106	119443	20.311	ug/l	100
69) Styrene	12.388	104	201474	19.712	ug/l	99
70) Isopropylbenzene	12.676	105	315847	21.182	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.917	83	114474	21.355	ug/l	98
72) 1,2,3-Trichloropropane	12.970	75	93013m	17.671	ug/l	
73) Bromobenzene	12.959	156	78747	21.585	ug/l	90
74) n-propylbenzene	13.012	91	393403	20.910	ug/l	97
75) 2-Chlorotoluene	13.106	91	235172	20.768	ug/l	95
76) 1,3,5-Trimethylbenzene	13.153	105	272968	21.678	ug/l	97
77) t-1,4-Dichloro-2-butene	12.717	75	36462	20.524	ug/l	93
78) 4-Chlorotoluene	13.200	91	239153	20.949	ug/l	98
79) tert-butylbenzene	13.417	119	234797	22.265	ug/l	95
80) 1,2,4-Trimethylbenzene	13.459	105	261053	20.222	ug/l	95
81) sec-Butylbenzene	13.594	105	341990	22.048	ug/l	96
82) p-Isopropyltoluene	13.706	119	287495	22.495	ug/l	97
83) 1,3-Dichlorobenzene	13.711	146	150290	21.368	ug/l	98
84) 1,4-Dichlorobenzene	13.794	146	153609	21.789	ug/l	97
85) n-Butylbenzene	14.035	91	276503	22.508	ug/l	97
86) Hexachloroethane	14.306	117	55330	21.315	ug/l	90
87) 1,2-Dichlorobenzene	14.082	146	146033	22.015	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.694	75	25828	21.711	ug/l	93
89) 1,2,4-Trichlorobenzene	15.811	180	87612	23.221	ug/l	98
90) Hexachlorobutadiene	15.470	225	35041	27.704	ug/l	93
91) Naphthalene	15.617	128	300116	21.607	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	87612	23.221	ug/l	98

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

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