

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111425\
 Data File : VN088290.D
 Acq On : 14 Nov 2025 15:08
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/17/2025
 Supervised By : Mahesh Dadoda 11/17/2025

Quant Time: Nov 14 21:50:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 14 00:49:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	54111	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	251713	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	224020	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	144916	29.319	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.733%		
60) 4-Bromofluorobenzene	12.829	95	109280	28.857	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.200%		
63) Toluene-d8	10.541	98	315244	29.723	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.067%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	57200	15.038	ug/l	98
3) Chloromethane	2.383	50	83676	21.336	ug/l	96
4) Vinyl Chloride	2.536	62	72237	17.420	ug/l	93
5) Bromomethane	2.977	94	45778	20.704	ug/l	93
6) Chloroethane	3.136	64	49851	19.449	ug/l	92
7) Trichlorofluoromethane	3.512	101	91294	15.703	ug/l	87
8) Diethyl Ether	3.959	74	47189	21.716	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	48353	15.854	ug/l	98
10) 1,1-Dichloroethene	4.336	96	50824	17.081	ug/l	96
11) Methyl Iodide	4.577	142	55238	17.444	ug/l	90
12) Methyl Acetate	5.012	43	115993	24.164	ug/l	90
13) Acrolein	4.177	56	93437	132.297	ug/l	99
14) Acrylonitrile	5.706	53	254411	116.636	ug/l	99
15) Acetone	4.424	58	73861	115.793	ug/l	98
16) Carbon Disulfide	4.701	76	167673	16.708	ug/l	97
17) Allyl chloride	5.006	41	104762	18.118	ug/l	99
18) Methylene Chloride	5.265	84	79618	21.527	ug/l	95
19) trans-1,2-Dichloroethene	5.771	96	63325	18.276	ug/l	95
20) Diisopropyl ether	6.653	45	265311	21.473	ug/l	98
21) 1,1-Dichloroethane	6.553	63	136192	19.565	ug/l	98
22) cis-1,2-Dichloroethene	7.465	96	78718	19.547	ug/l	95
23) tert-Butyl Alcohol	5.524	59	93134	116.118	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	257834	21.492	ug/l	99
25) Chloroform	7.947	83	139355	20.203	ug/l	96
26) Cyclohexane	8.236	56	86833	14.768	ug/l #	97
29) 1,1-Dichloropropene	8.347	75	77905	18.549	ug/l	98
30) 2-Butanone	7.465	43	368716	135.718	ug/l	99
31) 2,2-Dichloropropane	7.477	77	92152	17.789	ug/l #	80
32) 1,1,1-Trichloroethane	8.147	97	101981	19.697	ug/l	97
33) Carbon Tetrachloride	8.347	117	83437	18.872	ug/l	93
34) Benzene	8.588	78	272321	21.692	ug/l	98
35) Methacrylonitrile	7.765	41	75529	26.653	ug/l	98
36) 1,2-Dichloroethane	8.653	62	116144	23.772	ug/l	99
37) Trichloroethene	9.336	130	57118	20.077	ug/l	91
38) Methylcyclohexane	9.577	83	81432	16.912	ug/l	99
39) 1,2-Dichloropropane	9.600	63	76064	23.484	ug/l	89
40) Dibromomethane	9.688	93	58222	25.019	ug/l	98
41) Bromodichloromethane	9.871	83	111138	23.724	ug/l	99
42) Vinyl Acetate	6.589	43	1142387	125.986	ug/l	99

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 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	152829	27.958	ug/l #	84
44) Isopropyl Acetate	8.671	43	218161	25.897	ug/l	99
45) 1,4-Dioxane	9.677	88	32121	633.176	ug/l #	93
46) Methyl methacrylate	9.659	41	97431	24.716	ug/l	96
47) n-amyl Acetate	12.606	43	83891m	19.652	ug/l	
48) t-1,3-Dichloropropene	10.818	75	109979	21.949	ug/l	98
49) cis-1,3-Dichloropropene	10.288	75	115961	22.243	ug/l	97
50) 1,1,2-Trichloroethane	10.994	97	73127	25.413	ug/l	95
51) Ethyl methacrylate	10.859	69	109344	23.096	ug/l	96
52) 1,3-Dichloropropane	11.141	76	127053	24.245	ug/l	99
53) Dibromochloromethane	11.335	129	80263	24.284	ug/l	98
54) 1,2-Dibromoethane	11.447	107	72861	24.370	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	299487	109.818	ug/l	98
56) Bromoform	12.559	173	50087	23.941	ug/l	96
58) 4-Methyl-2-Pentanone	10.424	43	695940	137.354	ug/l	99
59) 2-Hexanone	11.177	43	436830	129.836	ug/l	100
61) Tetrachloroethene	11.082	164	47322	20.489	ug/l	96
62) Toluene	10.606	91	264058	20.540	ug/l	100
64) Chlorobenzene	11.871	112	163051	20.479	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.941	131	60753	22.294	ug/l	96
66) Ethyl Benzene	11.941	91	271847	19.187	ug/l	99
67) m/p-Xylenes	12.047	106	199907	37.729	ug/l	96
68) o-Xylene	12.376	106	99787	19.964	ug/l	96
69) Styrene	12.388	104	163752	19.289	ug/l	98
70) Isopropylbenzene	12.676	105	240920	18.188	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	113532	26.459	ug/l	98
72) 1,2,3-Trichloropropane	12.971	75	78039m	18.773	ug/l	
73) Bromobenzene	12.959	156	61920	20.706	ug/l	97
74) n-propylbenzene	13.012	91	298885	18.232	ug/l	100
75) 2-Chlorotoluene	13.106	91	183064	18.365	ug/l	98
76) 1,3,5-Trimethylbenzene	13.153	105	209796	18.868	ug/l	99
77) t-1,4-Dichloro-2-butene	12.724	75	33526	23.485	ug/l	96
78) 4-Chlorotoluene	13.200	91	183786	18.194	ug/l	94
79) tert-butylbenzene	13.418	119	172521	18.122	ug/l	100
80) 1,2,4-Trimethylbenzene	13.459	105	206962	18.718	ug/l	99
81) sec-Butylbenzene	13.594	105	248777	17.917	ug/l	100
82) p-Isopropyltoluene	13.706	119	207814	18.113	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	113685	19.566	ug/l	98
84) 1,4-Dichlorobenzene	13.794	146	121001	20.564	ug/l	99
85) n-Butylbenzene	14.035	91	190522	17.424	ug/l	97
86) Hexachloroethane	14.306	117	40648	18.503	ug/l	99
87) 1,2-Dichlorobenzene	14.082	146	115557	21.071	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.694	75	24626	24.417	ug/l	96
89) 1,2,4-Trichlorobenzene	15.817	180	63401	20.601	ug/l	97
90) Hexachlorobutadiene	15.470	225	22393	18.736	ug/l	97
91) Naphthalene	15.617	128	240010	21.554	ug/l	99
92) 1,2,3-Trichlorobenzene	15.817	180	63401	20.601	ug/l	97

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

