

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091725\
 Data File : VN087869.D
 Acq On : 17 Sep 2025 09:42
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/18/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 03:06:05 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

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

Internal Standards						
1) Bromochloromethane	7.794	128	52147	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	281875	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	258937	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	130992	29.406	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.033%		
60) 4-Bromofluorobenzene	12.829	95	123908	29.761	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.200%		
63) Toluene-d8	10.547	98	347757	28.879	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	96.267%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.148	85	63728	19.663	ug/l	97
3) Chloromethane	2.383	50	51699	15.195	ug/l	97
4) Vinyl Chloride	2.536	62	58815	15.293	ug/l	92
5) Bromomethane	2.977	94	32049	14.205	ug/l	96
6) Chloroethane	3.136	64	37417	14.235	ug/l #	79
7) Trichlorofluoromethane	3.512	101	94114	16.695	ug/l	87
8) Diethyl Ether	3.959	74	34918	14.668	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.371	101	54116	17.723	ug/l	60
10) 1,1-Dichloroethene	4.336	96	51148	16.247	ug/l	94
11) Methyl Iodide	4.583	142	27462	12.324	ug/l	87
12) Methyl Acetate	5.018	43	93838	19.337	ug/l	95
13) Acrolein	4.177	56	100412	116.214	ug/l #	38
14) Acrylonitrile	5.712	53	189426	90.687	ug/l	97
15) Acetone	4.424	58	54742	84.010	ug/l	95
16) Carbon Disulfide	4.700	76	144116	16.674	ug/l #	93
17) Allyl chloride	5.018	41	88841m	17.278	ug/l	
18) Methylene Chloride	5.265	84	66255	18.580	ug/l	90
19) trans-1,2-Dichloroethene	5.765	96	57498	17.909	ug/l	96
20) Diisopropyl ether	6.659	45	211964	17.926	ug/l #	96
21) 1,1-Dichloroethane	6.553	63	118384	18.283	ug/l	95
22) cis-1,2-Dichloroethene	7.471	96	72845	18.692	ug/l	100
23) tert-Butyl Alcohol	5.518	59	68111	92.244	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	214645	19.098	ug/l #	80
25) Chloroform	7.947	83	126632	18.683	ug/l	88
26) Cyclohexane	8.236	56	91476	18.551	ug/l #	98
29) 1,1-Dichloropropene	8.347	75	81669	17.828	ug/l	97
30) 2-Butanone	7.465	43	278175	88.150	ug/l	99
31) 2,2-Dichloropropane	7.471	77	114169	20.675	ug/l #	78
32) 1,1,1-Trichloroethane	8.153	97	109869	18.918	ug/l	96
33) Carbon Tetrachloride	8.341	117	91042	18.801	ug/l	89
34) Benzene	8.588	78	260993	17.628	ug/l #	91
35) Methacrylonitrile	7.759	41	56919	17.244	ug/l	96
36) 1,2-Dichloroethane	8.653	62	99931	17.869	ug/l	98
37) Trichloroethene	9.335	130	63179	19.090	ug/l	93
38) Methylcyclohexane	9.583	83	93569	18.550	ug/l	95
39) 1,2-Dichloropropane	9.600	63	66336	17.494	ug/l	90
40) Dibromomethane	9.688	93	50151	17.772	ug/l	96
41) Bromodichloromethane	9.871	83	102024	17.689	ug/l #	93
42) Vinyl Acetate	6.589	43	873112	82.808	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	111034	17.221	ug/l	99
44) Isopropyl Acetate	8.671	43	173222	17.138	ug/l	99
45) 1,4-Dioxane	9.677	88	22600	354.558	ug/l #	79
46) Methyl methacrylate	9.665	41	78333	16.814	ug/l	93
47) n-amyl Acetate	12.618	43	103656m	15.176	ug/l	
48) t-1,3-Dichloropropene	10.818	75	102141	17.051	ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	109669	17.874	ug/l	96
50) 1,1,2-Trichloroethane	10.994	97	67907	18.631	ug/l	97
51) Ethyl methacrylate	10.853	69	96353	16.987	ug/l	94
52) 1,3-Dichloropropane	11.141	76	110479	17.456	ug/l	98
53) Dibromochloromethane	11.335	129	75842	18.558	ug/l	91
54) 1,2-Dibromoethane	11.447	107	68595	18.087	ug/l	97
55) 2-Chloroethyl vinyl ether	10.141	63	290841	89.490	ug/l	98
56) Bromoform	12.565	173	49888	18.693	ug/l	97
58) 4-Methyl-2-Pentanone	10.424	43	548165	89.532	ug/l	99
59) 2-Hexanone	11.177	43	353570	88.377	ug/l	96
61) Tetrachloroethene	11.082	164	50927	19.754	ug/l	96
62) Toluene	10.606	91	286562	18.296	ug/l	100
64) Chlorobenzene	11.871	112	179893	18.713	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	65113	19.239	ug/l	98
66) Ethyl Benzene	11.941	91	314293m	18.600	ug/l	
67) m/p-Xylenes	12.053	106	233991	37.305	ug/l	93
68) o-Xylene	12.376	106	110935	18.241	ug/l	95
69) Styrene	12.394	104	191265	18.095	ug/l	97
70) Isopropylbenzene	12.671	105	294417	19.093	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.918	83	103192	18.614	ug/l	99
72) 1,2,3-Trichloropropane	12.971	75	96909m	17.804	ug/l	
73) Bromobenzene	12.959	156	71265	18.889	ug/l	92
74) n-propylbenzene	13.012	91	369477	18.990	ug/l	100
75) 2-Chlorotoluene	13.100	91	220111	18.796	ug/l	96
76) 1,3,5-Trimethylbenzene	13.153	105	249532	19.162	ug/l	95
77) t-1,4-Dichloro-2-butene	12.718	75	34144m	18.585	ug/l	
78) 4-Chlorotoluene	13.200	91	214620	18.179	ug/l	97
79) tert-butylbenzene	13.418	119	217594	19.953	ug/l	95
80) 1,2,4-Trimethylbenzene	13.459	105	251183	18.815	ug/l	96
81) sec-Butylbenzene	13.594	105	322425	20.100	ug/l	97
82) p-Isopropyltoluene	13.706	119	268282	20.299	ug/l	97
83) 1,3-Dichlorobenzene	13.712	146	142978	19.657	ug/l	100
84) 1,4-Dichlorobenzene	13.788	146	147719	20.261	ug/l	99
85) n-Butylbenzene	14.035	91	252165	19.849	ug/l	99
86) Hexachloroethane	14.306	117	53724	20.013	ug/l	94
87) 1,2-Dichlorobenzene	14.082	146	140678	20.507	ug/l	94
88) 1,2-Dibromo-3-Chloropr...	14.700	75	22720	18.468	ug/l	89
89) 1,2,4-Trichlorobenzene	15.812	180	78987	20.244	ug/l	95
90) Hexachlorobutadiene	15.470	225	29826	22.803	ug/l	94
91) Naphthalene	15.612	128	268102	18.665	ug/l	98
92) 1,2,3-Trichlorobenzene	15.812	180	78987	20.244	ug/l	95

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

