

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087458.D
 Acq On : 05 Aug 2025 15:43
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080525

Quant Time: Aug 06 02:12:31 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 : John Carlone 08/06/2025
 Supervised By : Mahesh Dadoda 08/06/2025

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

Internal Standards						
1) Bromochloromethane	7.800	128	71823	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	404390	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	367577	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	202347	30.545	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.800%			
60) 4-Bromofluorobenzene	12.829	95	192410	30.417	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.400%			
63) Toluene-d8	10.547	98	513267	30.347	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.167%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	87746	18.712	ug/l	98
3) Chloromethane	2.383	50	85826	17.839	ug/l	97
4) Vinyl Chloride	2.542	62	97923	19.190	ug/l	92
5) Bromomethane	2.983	94	53929	19.525	ug/l	85
6) Chloroethane	3.142	64	59300	18.022	ug/l	96
7) Trichlorofluoromethane	3.506	101	133795	18.219	ug/l	100
8) Diethyl Ether	3.959	74	56065	18.325	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	68759	18.360	ug/l	88
10) 1,1-Dichloroethene	4.336	96	71378	18.145	ug/l	90
11) Methyl Iodide	4.583	142	48013	15.501	ug/l	96
12) Methyl Acetate	5.018	43	133791	18.431	ug/l	95
13) Acrolein	4.177	56	114938	103.668	ug/l	98
14) Acrylonitrile	5.712	53	287956	90.843	ug/l	98
15) Acetone	4.424	58	88879	98.134	ug/l	96
16) Carbon Disulfide	4.706	76	219977	18.028	ug/l	99
17) Allyl chloride	5.018	41	149799	18.683	ug/l	88
18) Methylene Chloride	5.265	84	93115	18.387	ug/l	96
19) trans-1,2-Dichloroethene	5.765	96	83760	17.906	ug/l	96
20) Diisopropyl ether	6.659	45	327254	17.917	ug/l	99
21) 1,1-Dichloroethane	6.559	63	171210	18.134	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	103737	18.023	ug/l	100
23) tert-Butyl Alcohol	5.530	59	128000	95.030	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	324724	18.116	ug/l	98
25) Chloroform	7.953	83	177598	18.021	ug/l	94
26) Cyclohexane	8.241	56	135890	17.977	ug/l #	99
29) 1,1-Dichloropropene	8.353	75	117565	17.825	ug/l	98
30) 2-Butanone	7.471	43	435716	89.621	ug/l	99
31) 2,2-Dichloropropane	7.477	77	158483	18.630	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	151313	17.988	ug/l	96
33) Carbon Tetrachloride	8.347	117	124231	17.777	ug/l	93
34) Benzene	8.588	78	376019	18.060	ug/l	95
35) Methacrylonitrile	7.765	41	95290	18.163	ug/l	96
36) 1,2-Dichloroethane	8.653	62	150784	17.918	ug/l	99
37) Trichloroethene	9.335	130	82742	18.041	ug/l	97
38) Methylcyclohexane	9.582	83	136830	17.882	ug/l	98
39) 1,2-Dichloropropane	9.600	63	94981	17.793	ug/l	96
40) Dibromomethane	9.688	93	69241	17.288	ug/l	93
41) Bromodichloromethane	9.871	83	146339	17.583	ug/l	98
42) Vinyl Acetate	6.589	43	1423556	88.913	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	171684	18.279	ug/l	99
44) Isopropyl Acetate	8.677	43	278498	17.492	ug/l	100
45) 1,4-Dioxane	9.677	88	38322	377.572	ug/l	98
46) Methyl methacrylate	9.665	41	127548	16.972	ug/l	92
47) n-amyl Acetate	12.523	43	146094m	16.611	ug/l	
48) t-1,3-Dichloropropene	10.818	75	157686	17.415	ug/l	96
49) cis-1,3-Dichloropropene	10.294	75	162308	17.812	ug/l	99
50) 1,1,2-Trichloroethane	10.994	97	90030	17.791	ug/l	93
51) Ethyl methacrylate	10.859	69	153822	17.260	ug/l	95
52) 1,3-Dichloropropane	11.141	76	161040	17.664	ug/l	99
53) Dibromochloromethane	11.335	129	101996	17.453	ug/l	98
54) 1,2-Dibromoethane	11.453	107	93933	17.486	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	443163	94.458	ug/l	99
56) Bromoform	12.559	173	65682	16.992	ug/l #	99
58) 4-Methyl-2-Pentanone	10.429	43	848509	89.734	ug/l	100
59) 2-Hexanone	11.182	43	570046	88.726	ug/l	100
61) Tetrachloroethene	11.082	164	64788	18.092	ug/l	96
62) Toluene	10.612	91	405628	17.879	ug/l	100
64) Chlorobenzene	11.871	112	248284	17.811	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	85480	17.440	ug/l	98
66) Ethyl Benzene	11.941	91	452435	17.892	ug/l	100
67) m/p-Xylenes	12.053	106	323616	34.866	ug/l	100
68) o-Xylene	12.376	106	159060	17.419	ug/l	100
69) Styrene	12.394	104	269120	17.260	ug/l	98
70) Isopropylbenzene	12.676	105	412806	17.794	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.918	83	140546	17.682	ug/l	100
72) 1,2,3-Trichloropropane	12.976	75	120488m	16.271	ug/l	
73) Bromobenzene	12.959	156	91029	16.926	ug/l	96
74) n-propylbenzene	13.012	91	521263	17.991	ug/l	99
75) 2-Chlorotoluene	13.106	91	315743	17.717	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	356748	17.960	ug/l	100
77) t-1,4-Dichloro-2-butene	12.723	75	47247	16.855	ug/l	90
78) 4-Chlorotoluene	13.200	91	327647	18.142	ug/l	99
79) tert-butylbenzene	13.417	119	299129	17.861	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	358425	18.058	ug/l	98
81) sec-Butylbenzene	13.594	105	447713	18.364	ug/l	99
82) p-Isopropyltoluene	13.706	119	367898	18.174	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	187078	18.268	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	188698	18.174	ug/l	99
85) n-Butylbenzene	14.035	91	370033	18.683	ug/l	99
86) Hexachloroethane	14.312	117	69621	17.612	ug/l	95
87) 1,2-Dichlorobenzene	14.082	146	178646	18.275	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.694	75	35995	17.876	ug/l	99
89) 1,2,4-Trichlorobenzene	15.811	180	107490	18.399	ug/l	99
90) Hexachlorobutadiene	15.476	225	42365	18.649	ug/l	95
91) Naphthalene	15.611	128	404839	18.174	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	107490	18.399	ug/l	99

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

