

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087452.D
 Acq On : 05 Aug 2025 13:37
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Aug 06 01:26:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 01:24:35 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	7.794	128	66791	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	367765	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	324158	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	185120	30.050	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.167%			
60) 4-Bromofluorobenzene	12.829	95	166050	29.766	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.233%			
63) Toluene-d8	10.547	98	457922	30.702	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.333%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	19809	4.543	ug/l	97
3) Chloromethane	2.383	50	22193	4.960	ug/l	98
4) Vinyl Chloride	2.542	62	23292	4.908	ug/l	93
5) Bromomethane	2.977	94	11433	4.451	ug/l	96
6) Chloroethane	3.136	64	15730	5.141	ug/l	96
7) Trichlorofluoromethane	3.500	101	35964	5.266	ug/l #	81
8) Diethyl Ether	3.965	74	14911	5.241	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.359	101	19105	5.486	ug/l	63
10) 1,1-Dichloroethene	4.342	96	18969	5.185	ug/l	96
11) Methyl Iodide	4.583	142	8659m	3.021	ug/l	
12) Methyl Acetate	5.024	43	32749	4.851	ug/l #	91
13) Acrolein	4.183	56	25602	24.838	ug/l	92
14) Acrylonitrile	5.706	53	75304	25.546	ug/l	99
15) Acetone	4.424	58	23455	27.848	ug/l	88
16) Carbon Disulfide	4.706	76	60257	5.310	ug/l	100
17) Allyl chloride	5.018	41	37245	4.995	ug/l	91
18) Methylene Chloride	5.265	84	25316	5.377	ug/l	87
19) trans-1,2-Dichloroethene	5.777	96	23167m	5.326	ug/l	
20) Diisopropyl ether	6.659	45	85498	5.036	ug/l #	98
21) 1,1-Dichloroethane	6.553	63	44299	5.045	ug/l	99
22) cis-1,2-Dichloroethene	7.465	96	27569	5.151	ug/l #	88
23) tert-Butyl Alcohol	5.524	59	33736	26.933	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	84726	5.083	ug/l #	69
25) Chloroform	7.947	83	47159	5.146	ug/l	98
26) Cyclohexane	8.241	56	35104	4.994	ug/l #	93
29) 1,1-Dichloropropene	8.353	75	31744	5.292	ug/l	92
30) 2-Butanone	7.471	43	115688	26.165	ug/l #	83
31) 2,2-Dichloropropane	7.471	77	41219	5.328	ug/l #	61
32) 1,1,1-Trichloroethane	8.153	97	39911	5.217	ug/l	99
33) Carbon Tetrachloride	8.341	117	32877	5.173	ug/l	96
34) Benzene	8.582	78	98586	5.207	ug/l #	81
35) Methacrylonitrile	7.771	41	25099	5.260	ug/l	93
36) 1,2-Dichloroethane	8.647	62	40495	5.291	ug/l	97
37) Trichloroethene	9.335	130	21742	5.213	ug/l	92
38) Methylcyclohexane	9.577	83	36974	5.313	ug/l	98
39) 1,2-Dichloropropane	9.600	63	25889	5.333	ug/l	91
40) Dibromomethane	9.688	93	19402	5.327	ug/l	99
41) Bromodichloromethane	9.871	83	40582	5.362	ug/l #	95
42) Vinyl Acetate	6.594	43	374548	25.723	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	45639m	5.423	ug/l	
44) Isopropyl Acetate	8.677	43	75250	5.197	ug/l	98
45) 1,4-Dioxane	9.682	88	9597	103.972	ug/l #	85
46) Methyl methacrylate	9.665	41	35322	5.168	ug/l	98
47) n-amyl Acetate	12.682	43	32939m	4.524	ug/l	
48) t-1,3-Dichloropropene	10.818	75	41412	5.029	ug/l	95
49) cis-1,3-Dichloropropene	10.294	75	42124	5.083	ug/l #	94
50) 1,1,2-Trichloroethane	10.994	97	23578	5.123	ug/l	93
51) Ethyl methacrylate	10.859	69	36705	4.529	ug/l	97
52) 1,3-Dichloropropane	11.141	76	42828	5.166	ug/l	97
53) Dibromochloromethane	11.341	129	26196	4.929	ug/l	95
54) 1,2-Dibromoethane	11.447	107	24555	5.026	ug/l	97
55) 2-Chloroethyl vinyl ether	10.141	63	114298	26.788	ug/l	99
56) Bromoform	12.559	173	16434	4.675	ug/l #	78
58) 4-Methyl-2-Pentanone	10.424	43	219603	26.335	ug/l	99
59) 2-Hexanone	11.182	43	130616	23.053	ug/l	99
61) Tetrachloroethene	11.082	164	17278	5.471	ug/l	92
62) Toluene	10.612	91	106690	5.333	ug/l	100
64) Chlorobenzene	11.871	112	65821	5.354	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.941	131	23260	5.381	ug/l	98
66) Ethyl Benzene	11.947	91	116379	5.219	ug/l	97
67) m/p-Xylenes	12.053	106	85967	10.503	ug/l	96
68) o-Xylene	12.376	106	42724	5.306	ug/l	95
69) Styrene	12.394	104	67893	4.938	ug/l	97
70) Isopropylbenzene	12.676	105	104723	5.119	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.918	83	37401	5.336	ug/l	97
72) 1,2,3-Trichloropropane	12.976	75	34102m	4.733	ug/l	
73) Bromobenzene	12.959	156	25284	5.331	ug/l	94
74) n-propylbenzene	13.018	91	134786	5.275	ug/l	99
75) 2-Chlorotoluene	13.106	91	84827	5.397	ug/l	95
76) 1,3,5-Trimethylbenzene	13.153	105	92128	5.259	ug/l	100
77) t-1,4-Dichloro-2-butene	12.718	75	10355	4.189	ug/l	79
78) 4-Chlorotoluene	13.200	91	83697	5.255	ug/l	98
79) tert-butylbenzene	13.417	119	77933	5.277	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	90309	5.159	ug/l	100
81) sec-Butylbenzene	13.594	105	113073	5.259	ug/l	97
82) p-Isopropyltoluene	13.706	119	95127	5.329	ug/l	99
83) 1,3-Dichlorobenzene	13.717	146	47197	5.226	ug/l	96
84) 1,4-Dichlorobenzene	13.788	146	47756	5.216	ug/l	97
85) n-Butylbenzene	14.035	91	89004	5.096	ug/l	99
86) Hexachloroethane	14.312	117	17680	5.072	ug/l	97
87) 1,2-Dichlorobenzene	14.082	146	43857	5.087	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.694	75	9336	5.257	ug/l	98
89) 1,2,4-Trichlorobenzene	15.811	180	26729	5.188	ug/l	98
90) Hexachlorobutadiene	15.470	225	11972	5.976	ug/l	80
91) Naphthalene	15.617	128	97646	4.971	ug/l	98
92) 1,2,3-Trichlorobenzene	15.811	180	26729	5.188	ug/l	98

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

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