

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082025\
 Data File : VN087605.D
 Acq On : 20 Aug 2025 10:05
 Operator : JC\MD
 Sample : VN0820WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0820WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/21/2025
 Supervised By : Mahesh Dadoda 08/22/2025

Quant Time: Aug 21 02:40:05 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

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

Internal Standards						
1) Bromochloromethane	7.794	128	48921	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	271057	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	242169	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	130061	28.824	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	96.067%	
60) 4-Bromofluorobenzene	12.829	95	122826	29.472	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	98.233%	
63) Toluene-d8	10.547	98	337745	30.311	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	101.033%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.148	85	54806	17.159	ug/l	91
3) Chloromethane	2.389	50	54715	16.697	ug/l	98
4) Vinyl Chloride	2.542	62	60191	17.318	ug/l	98
5) Bromomethane	2.983	94	28357	15.073	ug/l	80
6) Chloroethane	3.142	64	41758	18.631	ug/l	90
7) Trichlorofluoromethane	3.512	101	93661	18.724	ug/l	99
8) Diethyl Ether	3.965	74	37278	17.888	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	49104	19.250	ug/l	93
10) 1,1-Dichloroethene	4.330	96	50535	18.861	ug/l	78
11) Methyl Iodide	4.577	142	27454	13.013	ug/l	93
12) Methyl Acetate	5.012	43	92759	18.760	ug/l	99
13) Acrolein	4.177	56	83412	110.453	ug/l	95
14) Acrylonitrile	5.712	53	180058	83.397	ug/l	98
15) Acetone	4.424	58	56363	91.365	ug/l	95
16) Carbon Disulfide	4.700	76	132321	15.921	ug/l #	95
17) Allyl chloride	5.018	41	88047	16.122	ug/l	95
18) Methylene Chloride	5.271	84	59797	17.336	ug/l	87
19) trans-1,2-Dichloroethene	5.771	96	54435	17.084	ug/l	96
20) Diisopropyl ether	6.665	45	196398	15.786	ug/l #	96
21) 1,1-Dichloroethane	6.547	63	109101	16.965	ug/l	99
22) cis-1,2-Dichloroethene	7.471	96	66738	17.023	ug/l	98
23) tert-Butyl Alcohol	5.530	59	72110	78.599	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	200487	16.421	ug/l	97
25) Chloroform	7.947	83	115264	17.171	ug/l	95
26) Cyclohexane	8.241	56	83585	16.234	ug/l #	96
29) 1,1-Dichloropropene	8.353	75	73910	16.718	ug/l	98
30) 2-Butanone	7.471	43	256451	78.696	ug/l	98
31) 2,2-Dichloropropane	7.477	77	96478	16.920	ug/l #	82
32) 1,1,1-Trichloroethane	8.153	97	96650	17.141	ug/l	97
33) Carbon Tetrachloride	8.341	117	78991	16.863	ug/l	98
34) Benzene	8.594	78	235531	16.877	ug/l #	94
35) Methacrylonitrile	7.765	41	57754	16.423	ug/l	94
36) 1,2-Dichloroethane	8.653	62	91178	16.165	ug/l	99
37) Trichloroethene	9.335	130	55241	17.970	ug/l	86
38) Methylcyclohexane	9.582	83	82772	16.139	ug/l	97
39) 1,2-Dichloropropane	9.606	63	62533	17.477	ug/l	96
40) Dibromomethane	9.688	93	44233	16.476	ug/l	93
41) Bromodichloromethane	9.871	83	93249	16.716	ug/l	95
42) Vinyl Acetate	6.588	43	840820	78.349	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	103998	16.519	ug/l	98
44) Isopropyl Acetate	8.671	43	165392	15.498	ug/l	99
45) 1,4-Dioxane	9.682	88	22102	324.880	ug/l	98
46) Methyl methacrylate	9.665	41	76903	15.266	ug/l	97
47) n-amyl Acetate	12.682	43	113093m	19.184	ug/l	
48) t-1,3-Dichloropropene	10.818	75	91849	15.134	ug/l	95
49) cis-1,3-Dichloropropene	10.294	75	99143	16.232	ug/l	96
50) 1,1,2-Trichloroethane	11.000	97	58841	17.347	ug/l	96
51) Ethyl methacrylate	10.859	69	89379	14.962	ug/l	98
52) 1,3-Dichloropropane	11.141	76	101417	16.596	ug/l	99
53) Dibromochloromethane	11.335	129	63833	16.295	ug/l	97
54) 1,2-Dibromoethane	11.453	107	57883	16.075	ug/l	96
55) 2-Chloroethyl vinyl ether	10.141	63	222919	70.886	ug/l	99
56) Bromoform	12.559	173	40525	15.641	ug/l #	95
58) 4-Methyl-2-Pentanone	10.429	43	520898	83.615	ug/l	99
59) 2-Hexanone	11.182	43	312499	73.828	ug/l	98
61) Tetrachloroethene	11.088	164	43110	18.272	ug/l	88
62) Toluene	10.612	91	255291	17.080	ug/l	100
64) Chlorobenzene	11.870	112	159796	17.399	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.941	131	53594	16.597	ug/l	98
66) Ethyl Benzene	11.941	91	282608	16.964	ug/l	100
67) m/p-Xylenes	12.053	106	203075	33.209	ug/l	97
68) o-Xylene	12.376	106	100118	16.642	ug/l	97
69) Styrene	12.394	104	170668	16.614	ug/l	97
70) Isopropylbenzene	12.676	105	256340	16.772	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.917	83	91997	17.567	ug/l	98
72) 1,2,3-Trichloropropane	12.970	75	82122m	16.833	ug/l	
73) Bromobenzene	12.964	156	59767	16.868	ug/l	95
74) n-propylbenzene	13.012	91	320559	16.794	ug/l	100
75) 2-Chlorotoluene	13.106	91	192755	16.417	ug/l	94
76) 1,3,5-Trimethylbenzene	13.153	105	216441	16.539	ug/l	100
77) t-1,4-Dichloro-2-butene	12.717	75	26214	14.194	ug/l	93
78) 4-Chlorotoluene	13.200	91	197491	16.598	ug/l	99
79) tert-butylbenzene	13.417	119	184651	16.736	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	217282	16.616	ug/l	99
81) sec-Butylbenzene	13.594	105	279625	17.409	ug/l	98
82) p-Isopropyltoluene	13.706	119	222802	16.706	ug/l	99
83) 1,3-Dichlorobenzene	13.711	146	116038	17.199	ug/l	97
84) 1,4-Dichlorobenzene	13.794	146	116929	17.094	ug/l	100
85) n-Butylbenzene	14.035	91	218590	16.752	ug/l	99
86) Hexachloroethane	14.311	117	42428	16.291	ug/l	100
87) 1,2-Dichlorobenzene	14.088	146	109929	17.069	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.700	75	21132	15.929	ug/l	94
89) 1,2,4-Trichlorobenzene	15.811	180	63782	16.571	ug/l	97
90) Hexachlorobutadiene	15.470	225	23909	15.975	ug/l	90
91) Naphthalene	15.617	128	241140	16.431	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	63782	16.571	ug/l	97

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

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