

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
 Data File : VN087316.D
 Acq On : 10 Jul 2025 10:41
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/11/2025
 Supervised By : Mahesh Dadoda 07/14/2025

Quant Time: Jul 11 01:06:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	41639	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	206728	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	202666	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	87959	28.037	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	93.467%		
60) 4-Bromofluorobenzene	12.847	95	94690	30.278	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.933%		
63) Toluene-d8	10.565	98	261291	28.714	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	95.700%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.153	85	38505	15.362	ug/l	95
3) Chloromethane	2.395	50	33423	13.055	ug/l	99
4) Vinyl Chloride	2.553	62	39425	14.169	ug/l	93
5) Bromomethane	3.000	94	37098	25.123	ug/l	90
6) Chloroethane	3.153	64	33021	22.124	ug/l	97
7) Trichlorofluoromethane	3.524	101	65506	19.194	ug/l	99
8) Diethyl Ether	3.989	74	24312	14.499	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.400	101	42309m	16.721	ug/l	
10) 1,1-Dichloroethene	4.365	96	38206	15.147	ug/l	98
11) Methyl Iodide	4.612	142	42303	18.721	ug/l	97
12) Methyl Acetate	5.053	43	56084	14.175	ug/l	100
13) Acrolein	4.200	56	66741	109.781	ug/l	95
14) Acrylonitrile	5.730	53	129512	70.179	ug/l	100
15) Acetone	4.442	58	48976	90.980	ug/l	90
16) Carbon Disulfide	4.742	76	101596	13.776	ug/l	98
17) Allyl chloride	5.047	41	49623	11.928	ug/l	91
18) Methylene Chloride	5.306	84	48180	16.488	ug/l	87
19) trans-1,2-Dichloroethene	5.806	96	43998	15.951	ug/l	86
20) Diisopropyl ether	6.683	45	116442	13.192	ug/l	93
21) 1,1-Dichloroethane	6.588	63	78738	14.926	ug/l	96
22) cis-1,2-Dichloroethene	7.500	96	53553	16.681	ug/l	89
23) tert-Butyl Alcohol	5.536	59	50438	72.674	ug/l #	100
24) Methyl tert-Butyl Ether	5.812	73	142236	16.078	ug/l	99
25) Chloroform	7.977	83	91456	18.096	ug/l	99
26) Cyclohexane	8.265	56	55255	12.601	ug/l #	84
29) 1,1-Dichloropropene	8.382	75	55970	17.371	ug/l	98
30) 2-Butanone	7.488	43	176767	81.328	ug/l	93
31) 2,2-Dichloropropane	7.494	77	77233	19.857	ug/l	97
32) 1,1,1-Trichloroethane	8.177	97	77788	20.665	ug/l	98
33) Carbon Tetrachloride	8.371	117	67452	21.293	ug/l	96
34) Benzene	8.612	78	178133	17.451	ug/l	98
35) Methacrylonitrile	7.788	41	34427	15.717	ug/l	85
36) 1,2-Dichloroethane	8.677	62	65356	19.816	ug/l	99
37) Trichloroethene	9.353	130	45403	19.283	ug/l	92
38) Methylcyclohexane	9.600	83	57702	15.608	ug/l	94
39) 1,2-Dichloropropane	9.624	63	43354	16.921	ug/l	97
40) Dibromomethane	9.712	93	37213	21.360	ug/l	98
41) Bromodichloromethane	9.894	83	72887	20.727	ug/l	96
42) Vinyl Acetate	6.618	43	533888	75.521	ug/l #	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	69788	17.786	ug/l	93
44) Isopropyl Acetate	8.694	43	102377	16.014	ug/l	95
45) 1,4-Dioxane	9.706	88	14911	344.807	ug/l #	76
46) Methyl methacrylate	9.682	41	42288	14.229	ug/l	90
47) n-amyl Acetate	12.541	43	64192m	16.424	ug/l	
48) t-1,3-Dichloropropene	10.835	75	71998	18.366	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	75792	18.187	ug/l	94
50) 1,1,2-Trichloroethane	11.018	97	50405	20.367	ug/l	93
51) Ethyl methacrylate	10.882	69	60493	16.060	ug/l	88
52) 1,3-Dichloropropane	11.159	76	79354	18.677	ug/l	100
53) Dibromochloromethane	11.359	129	57446	22.113	ug/l	99
54) 1,2-Dibromoethane	11.471	107	52665	20.627	ug/l	96
55) 2-Chloroethyl vinyl ether	10.159	63	171171	79.280	ug/l	95
56) Bromoform	12.576	173	38910	21.788	ug/l #	98
58) 4-Methyl-2-Pentanone	10.447	43	305007	74.861	ug/l	96
59) 2-Hexanone	11.206	43	178213	67.738	ug/l	97
61) Tetrachloroethene	11.106	164	37960	18.914	ug/l	94
62) Toluene	10.629	91	203216	17.754	ug/l	99
64) Chlorobenzene	11.888	112	140028	19.178	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	48833	20.242	ug/l	98
66) Ethyl Benzene	11.965	91	215595	17.208	ug/l	96
67) m/p-Xylenes	12.070	106	177781	37.030	ug/l	94
68) o-Xylene	12.394	106	83384	18.205	ug/l	95
69) Styrene	12.412	104	144274	18.348	ug/l	98
70) Isopropylbenzene	12.694	105	209510	18.366	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	77841	18.958	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	76231m	21.529	ug/l	
73) Bromobenzene	12.976	156	57119	20.642	ug/l	83
74) n-propylbenzene	13.035	91	256386	18.397	ug/l	95
75) 2-Chlorotoluene	13.123	91	155373	18.454	ug/l	95
76) 1,3,5-Trimethylbenzene	13.170	105	176246	18.979	ug/l	97
77) t-1,4-Dichloro-2-butene	12.735	75	26042	16.581	ug/l	93
78) 4-Chlorotoluene	13.217	91	163977	19.016	ug/l	96
79) tert-butylbenzene	13.435	119	151329	19.386	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	180227	19.327	ug/l	100
81) sec-Butylbenzene	13.612	105	217106	19.132	ug/l	98
82) p-Isopropyltoluene	13.729	119	188117	19.920	ug/l	98
83) 1,3-Dichlorobenzene	13.729	146	114011	21.396	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	108762	20.281	ug/l	98
85) n-Butylbenzene	14.053	91	160463	18.624	ug/l	96
86) Hexachloroethane	14.329	117	37803	21.148	ug/l	97
87) 1,2-Dichlorobenzene	14.100	146	107855	21.467	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	18334	19.830	ug/l	91
89) 1,2,4-Trichlorobenzene	15.835	180	56329	19.816	ug/l	99
90) Hexachlorobutadiene	15.494	225	15826	18.762	ug/l	97
91) Naphthalene	15.635	128	205505	18.369	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	56329	19.816	ug/l	99

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

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