

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN073025\
 Data File : VN087437.D
 Acq On : 30 Jul 2025 09:19
 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

07/31/2025

Supervised By :Mahesh
 Dadoda

07/31/2025

Quant Time: Jul 31 01:10:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jul 28 11:35:47 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Bromochloromethane	7.794	128	54900	30.000	ug/l	0.00	
28) 1,4-Difluorobenzene	9.083	114	310969	30.000	ug/l	0.00	
57) Chlorobenzene-d5	11.847	117	281690	30.000	ug/l	0.00	
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.559	65	134116	31.947	ug/l	0.00	
Spiked Amount	30.000	Range	91 - 110	Recovery	=	106.500%	
60) 4-Bromofluorobenzene	12.829	95	134007	28.970	ug/l	0.00	
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.567%	
63) Toluene-d8	10.547	98	393088	30.386	ug/l	0.00	
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.300%	
Target Compounds							
2) Dichlorodifluoromethane	2.142	85	57513	17.955	ug/l		94
3) Chloromethane	2.383	50	61140	17.981	ug/l		99
4) Vinyl Chloride	2.542	62	58725	17.070	ug/l		98
5) Bromomethane	2.983	94	27694	16.508	ug/l		99
6) Chloroethane	3.136	64	37385	19.267	ug/l	#	86
7) Trichlorofluoromethane	3.512	101	83323	19.251	ug/l		98
8) Diethyl Ether	3.959	74	37088	20.531	ug/l		97
9) 1,1,2-Trichlorotrifluo...	4.359	101	44363m	18.789	ug/l		
10) 1,1-Dichloroethene	4.336	96	46630	19.854	ug/l		94
11) Methyl Iodide	4.571	142	27541	12.950	ug/l		95
12) Methyl Acetate	5.018	43	101180	19.758	ug/l	#	91
13) Acrolein	4.171	56	55618	133.171	ug/l		99
14) Acrylonitrile	5.712	53	210271	94.693	ug/l		100
15) Acetone	4.418	58	62014	120.495	ug/l		84
16) Carbon Disulfide	4.701	76	134310	16.091	ug/l	#	88
17) Allyl chloride	5.012	41	100267	18.322	ug/l		98
18) Methylene Chloride	5.259	84	61019	17.257	ug/l	#	86
19) trans-1,2-Dichloroethene	5.777	96	55600	16.664	ug/l		99
20) Diisopropyl ether	6.665	45	236639	19.006	ug/l		97
21) 1,1-Dichloroethane	6.553	63	116265	18.424	ug/l		97
22) cis-1,2-Dichloroethene	7.471	96	72382	17.849	ug/l		98
23) tert-Butyl Alcohol	5.524	59	83296	96.778	ug/l	#	100
24) Methyl tert-Butyl Ether	5.795	73	215277	18.475	ug/l		97
25) Chloroform	7.947	83	116916	18.351	ug/l		94
26) Cyclohexane	8.241	56	96822	16.613	ug/l		95
29) 1,1-Dichloropropene	8.359	75	76926	17.426	ug/l		98
30) 2-Butanone	7.477	43	313973	98.166	ug/l		98
31) 2,2-Dichloropropane	7.471	77	98196	17.851	ug/l	#	80
32) 1,1,1-Trichloroethane	8.147	97	92631	17.457	ug/l		99
33) Carbon Tetrachloride	8.347	117	76382	17.457	ug/l		97
34) Benzene	8.588	78	258308	17.890	ug/l		99
35) Methacrylonitrile	7.765	41	67621	18.456	ug/l		94
36) 1,2-Dichloroethane	8.653	62	89864	18.702	ug/l	#	93
37) Trichloroethene	9.335	130	56815	17.238	ug/l		98
38) Methylcyclohexane	9.583	83	89255	15.676	ug/l		97
39) 1,2-Dichloropropane	9.606	63	67864	18.669	ug/l		97
40) Dibromomethane	9.688	93	48719	18.893	ug/l		97
41) Bromodichloromethane	9.871	83	98350	18.951	ug/l		94
42) Vinyl Acetate	6.595	43	1010741	93.905	ug/l		98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	122876m	18.741	ug/l	
44) Isopropyl Acetate	8.677	43	206595	19.723	ug/l	95
45) 1,4-Dioxane	9.683	88	28436	427.865	ug/l #	27
46) Methyl methacrylate	9.665	41	90926	18.643	ug/l	95
47) n-amyl Acetate	12.524	43	83136m	19.252	ug/l	
48) t-1,3-Dichloropropene	10.818	75	108905	18.640	ug/l	99
49) cis-1,3-Dichloropropene	10.294	75	112712	18.369	ug/l	98
50) 1,1,2-Trichloroethane	11.000	97	62202	18.122	ug/l	99
51) Ethyl methacrylate	10.859	69	115449	18.573	ug/l	90
52) 1,3-Dichloropropane	11.141	76	111645	18.820	ug/l	99
53) Dibromochloromethane	11.341	129	73570	18.687	ug/l	99
54) 1,2-Dibromoethane	11.447	107	66981	18.546	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	331080	129.542	ug/l	98
56) Bromoform	12.559	173	47252	17.103	ug/l	99
58) 4-Methyl-2-Pentanone	10.424	43	627206	98.851	ug/l	99
59) 2-Hexanone	11.182	43	419225	95.341	ug/l	98
61) Tetrachloroethene	11.082	164	45038	16.840	ug/l	94
62) Toluene	10.612	91	280326	17.633	ug/l	99
64) Chlorobenzene	11.871	112	170783	17.469	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.941	131	60589	18.276	ug/l	99
66) Ethyl Benzene	11.941	91	308416	17.757	ug/l	100
67) m/p-Xylenes	12.053	106	228921	35.175	ug/l	99
68) o-Xylene	12.376	106	114894	18.040	ug/l	99
69) Styrene	12.394	104	193630	17.775	ug/l	99
70) Isopropylbenzene	12.676	105	285966	17.484	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	102687	18.413	ug/l	98
72) 1,2,3-Trichloropropane	12.971	75	85820m	16.917	ug/l	
73) Bromobenzene	12.959	156	66654	17.540	ug/l	99
74) n-propylbenzene	13.018	91	353029	17.483	ug/l	99
75) 2-Chlorotoluene	13.106	91	210818	17.591	ug/l	100
76) 1,3,5-Trimethylbenzene	13.153	105	240427	17.744	ug/l	99
77) t-1,4-Dichloro-2-butene	12.718	75	33583	15.601	ug/l	98
78) 4-Chlorotoluene	13.200	91	222613	18.089	ug/l	99
79) tert-butylbenzene	13.418	119	207134	17.696	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	240997	17.925	ug/l	100
81) sec-Butylbenzene	13.594	105	304439	17.510	ug/l	98
82) p-Isopropyltoluene	13.712	119	250907	17.780	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	128128	17.817	ug/l	98
84) 1,4-Dichlorobenzene	13.794	146	131201	17.446	ug/l	97
85) n-Butylbenzene	14.035	91	244788	17.223	ug/l	98
86) Hexachloroethane	14.312	117	50807	17.727	ug/l	92
87) 1,2-Dichlorobenzene	14.088	146	128306	18.353	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.700	75	22283	17.311	ug/l	97
89) 1,2,4-Trichlorobenzene	15.812	180	71068	16.667	ug/l	99
90) Hexachlorobutadiene	15.476	225	25335	15.606	ug/l	95
91) Naphthalene	15.612	128	282785	17.547	ug/l	99
92) 1,2,3-Trichlorobenzene	15.812	180	71068	16.667	ug/l	99

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

