

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050725\
 Data File : VN086528.D
 Acq On : 07 May 2025 11:01
 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 05/08/2025
 Supervised By : Mahesh Dadoda 05/08/2025

Quant Time: May 08 03:24:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	37360	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	216995	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	198839	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	99910	27.738	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	92.467%		
60) 4-Bromofluorobenzene	12.847	95	112846	28.875	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.267%		
63) Toluene-d8	10.565	98	321075	29.351	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.833%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	53985	20.930	ug/l	99
3) Chloromethane	2.359	50	65054	17.756	ug/l	96
4) Vinyl Chloride	2.518	62	64179	18.289	ug/l	98
5) Bromomethane	2.965	94	38177	20.838	ug/l	99
6) Chloroethane	3.124	64	41609	17.786	ug/l	99
7) Trichlorofluoromethane	3.500	101	88752	21.427	ug/l	98
8) Diethyl Ether	3.959	74	34168	19.542	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.365	101	53784	21.121	ug/l	97
10) 1,1-Dichloroethene	4.341	96	51914	19.918	ug/l	98
11) Methyl Iodide	4.589	142	64640	21.196	ug/l	98
12) Methyl Acetate	5.024	43	62090	16.807	ug/l	98
13) Acrolein	4.183	56	32715	213.281	ug/l	98
14) Acrylonitrile	5.718	53	129782	94.393	ug/l	99
15) Acetone	4.430	58	32898	86.833	ug/l	94
16) Carbon Disulfide	4.712	76	134034	19.516	ug/l	100
17) Allyl chloride	5.024	41	74879	17.967	ug/l	98
18) Methylene Chloride	5.271	84	59885	20.176	ug/l	92
19) trans-1,2-Dichloroethene	5.783	96	55519	19.985	ug/l	98
20) Diisopropyl ether	6.665	45	177728	17.936	ug/l	97
21) 1,1-Dichloroethane	6.565	63	102960	18.982	ug/l	98
22) cis-1,2-Dichloroethene	7.482	96	69575	20.029	ug/l	92
23) tert-Butyl Alcohol	5.506	59	53790	100.991	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	188309	19.555	ug/l	98
25) Chloroform	7.965	83	107970	19.669	ug/l	96
26) Cyclohexane	8.253	56	86900	18.145	ug/l #	94
29) 1,1-Dichloropropene	8.371	75	76991	20.126	ug/l	97
30) 2-Butanone	7.477	43	172553	92.932	ug/l	98
31) 2,2-Dichloropropane	7.488	77	97827	19.893	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	94185	20.604	ug/l	99
33) Carbon Tetrachloride	8.359	117	81922	21.769	ug/l	96
34) Benzene	8.600	78	241797	19.873	ug/l	95
35) Methacrylonitrile	7.777	41	38746	18.293	ug/l	92
36) 1,2-Dichloroethane	8.671	62	79391	20.097	ug/l	100
37) Trichloroethene	9.347	130	64201	21.077	ug/l	90
38) Methylcyclohexane	9.594	83	89174	20.184	ug/l	96
39) 1,2-Dichloropropane	9.618	63	57156	19.015	ug/l	98
40) Dibromomethane	9.706	93	41312	20.552	ug/l	93
41) Bromodichloromethane	9.882	83	85441	20.085	ug/l	98
42) Vinyl Acetate	6.600	43	633724	98.527	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	69949	19.036	ug/l	100
44) Isopropyl Acetate	8.682	43	130062	18.650	ug/l	100
45) 1,4-Dioxane	9.688	88	23810	437.588	ug/l	92
46) Methyl methacrylate	9.676	41	59173	18.395	ug/l	98
47) n-amyl Acetate	12.488	43	109148	18.363	ug/l	99
48) t-1,3-Dichloropropene	10.829	75	91150	19.166	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	97650	19.471	ug/l	95
50) 1,1,2-Trichloroethane	11.012	97	58291	20.761	ug/l	96
51) Ethyl methacrylate	10.870	69	93251	19.070	ug/l	94
52) 1,3-Dichloropropane	11.159	76	99333	20.017	ug/l	99
53) Dibromochloromethane	11.353	129	65375	20.736	ug/l	100
54) 1,2-Dibromoethane	11.465	107	58896	20.630	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	159859	69.532	ug/l	97
56) Bromoform	12.576	173	42168	20.611	ug/l #	99
58) 4-Methyl-2-Pentanone	10.441	43	361408	93.925	ug/l	99
59) 2-Hexanone	11.194	43	262377	92.531	ug/l	97
61) Tetrachloroethene	11.100	164	67183	22.153	ug/l	95
62) Toluene	10.629	91	270131	20.296	ug/l	98
64) Chlorobenzene	11.888	112	173125	20.876	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	59129	21.324	ug/l	99
66) Ethyl Benzene	11.959	91	301687	20.138	ug/l	100
67) m/p-Xylenes	12.065	106	233396	41.060	ug/l	100
68) o-Xylene	12.394	106	114679	20.605	ug/l	96
69) Styrene	12.406	104	186682	19.789	ug/l	99
70) Isopropylbenzene	12.694	105	283622	20.414	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	75591	20.664	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	62804m	19.692	ug/l	
73) Bromobenzene	12.976	156	69104	21.635	ug/l	90
74) n-propylbenzene	13.029	91	326678	19.787	ug/l	97
75) 2-Chlorotoluene	13.123	91	205084	19.899	ug/l	98
76) 1,3,5-Trimethylbenzene	13.170	105	231127	20.275	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	28398	17.545	ug/l	95
78) 4-Chlorotoluene	13.217	91	201932	19.596	ug/l	98
79) tert-butylbenzene	13.435	119	200195	20.505	ug/l	97
80) 1,2,4-Trimethylbenzene	13.476	105	230192	19.772	ug/l	96
81) sec-Butylbenzene	13.611	105	274496	19.696	ug/l	98
82) p-Isopropyltoluene	13.723	119	230453	19.762	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	121165	20.067	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	121794	20.416	ug/l	98
85) n-Butylbenzene	14.053	91	193640	18.609	ug/l	99
86) Hexachloroethane	14.329	117	35807	18.778	ug/l	94
87) 1,2-Dichlorobenzene	14.100	146	117423	20.439	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	14430	19.407	ug/l	95
89) 1,2,4-Trichlorobenzene	15.835	180	53911	20.589	ug/l	98
90) Hexachlorobutadiene	15.500	225	22568	21.397	ug/l	97
91) Naphthalene	15.635	128	181619	19.374	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	53911	20.589	ug/l	98

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

