

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072225\
 Data File : VN087389.D
 Acq On : 22 Jul 2025 14:03
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Jul 23 05:54:10 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

Manual Integrations APPROVED

Reviewed By :Mahesh
 Dadoda
 07/23/2025
 Supervised By :Semsettin
 Yesilyurt
 07/23/2025

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

Internal Standards						
1) Bromochloromethane	7.800	128	26469	30.000	ug/l	-0.02
28) 1,4-Difluorobenzene	9.082	114	120974	30.000	ug/l	-0.02
57) Chlorobenzene-d5	11.847	117	115930	30.000	ug/l	-0.02
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	64812	32.498	ug/l	-0.02
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.333%			
60) 4-Bromofluorobenzene	12.829	95	53881	30.119	ug/l	-0.02
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.400%			
63) Toluene-d8	10.547	98	161964	31.116	ug/l	-0.02
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.733%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	21817	13.693	ug/l	96
3) Chloromethane	2.389	50	23153	14.227	ug/l	98
4) Vinyl Chloride	2.542	62	26195	14.810	ug/l #	87
5) Bromomethane	2.983	94	16378	17.448	ug/l	96
6) Chloroethane	3.142	64	23538	24.809	ug/l	99
7) Trichlorofluoromethane	3.512	101	53527	24.672	ug/l	99
8) Diethyl Ether	3.965	74	21456	20.129	ug/l	88
9) 1,1,2-Trichlorotrifluo...	4.365	101	29914	18.598	ug/l #	83
10) 1,1-Dichloroethene	4.336	96	29135	18.171	ug/l	85
11) Methyl Iodide	4.577	142	13259m	9.230	ug/l	
12) Methyl Acetate	5.018	43	43418	17.263	ug/l #	86
13) Acrolein	4.177	56	37445	96.893	ug/l	96
14) Acrylonitrile	5.712	53	86837	74.023	ug/l	96
15) Acetone	4.418	58	31368	91.666	ug/l	83
16) Carbon Disulfide	4.706	76	60559	12.918	ug/l	99
17) Allyl chloride	5.012	41	37285	14.099	ug/l	93
18) Methylene Chloride	5.271	84	29941	16.119	ug/l	93
19) trans-1,2-Dichloroethene	5.777	96	26771	15.268	ug/l	88
20) Diisopropyl ether	6.659	45	94779	16.892	ug/l	94
21) 1,1-Dichloroethane	6.553	63	55933	16.679	ug/l	99
22) cis-1,2-Dichloroethene	7.471	96	32124	15.741	ug/l	98
23) tert-Butyl Alcohol	5.518	59	29506m	66.879	ug/l	
24) Methyl tert-Butyl Ether	5.783	73	91721	16.310	ug/l #	65
25) Chloroform	7.953	83	60528	18.840	ug/l	97
26) Cyclohexane	8.236	56	33237	11.924	ug/l #	96
29) 1,1-Dichloropropene	8.359	75	33273	17.646	ug/l	96
30) 2-Butanone	7.471	43	128013	100.646	ug/l	96
31) 2,2-Dichloropropane	7.471	77	47011	20.654	ug/l #	73
32) 1,1,1-Trichloroethane	8.153	97	50600	22.970	ug/l #	88
33) Carbon Tetrachloride	8.341	117	44660	24.091	ug/l	94
34) Benzene	8.588	78	113915	19.070	ug/l #	95
35) Methacrylonitrile	7.765	41	27046	21.100	ug/l	87
36) 1,2-Dichloroethane	8.653	62	47245	24.479	ug/l	99
37) Trichloroethene	9.335	130	27114	19.679	ug/l	88
38) Methylcyclohexane	9.582	83	32565	15.052	ug/l	95
39) 1,2-Dichloropropane	9.600	63	31036	20.700	ug/l	94
40) Dibromomethane	9.688	93	24778	24.304	ug/l	94
41) Bromodichloromethane	9.871	83	48397	23.519	ug/l #	98
42) Vinyl Acetate	6.589	43	384638	92.977	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072225\
 Data File : VN087389.D
 Acq On : 22 Jul 2025 14:03
 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 :Mahesh
 Dadoda
 07/23/2025
 Supervised By :Semsettin
 Yesilyurt
 07/23/2025

Quant Time: Jul 23 05:54:10 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)
43) Ethyl Acetate	7.547	43	50910m	22.173	ug/l	
44) Isopropyl Acetate	8.677	43	76835	20.539	ug/l	100
45) 1,4-Dioxane	9.688	88	8538	337.390	ug/l #	86
46) Methyl methacrylate	9.665	41	35399	20.355	ug/l	96
47) n-amyl Acetate	12.523	43	51196m	22.384	ug/l	
48) t-1,3-Dichloropropene	10.818	75	47433	20.677	ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	48692	19.966	ug/l #	84
50) 1,1,2-Trichloroethane	11.000	97	32365	22.348	ug/l	94
51) Ethyl methacrylate	10.859	69	42695	19.370	ug/l	94
52) 1,3-Dichloropropane	11.141	76	52417	21.083	ug/l	97
53) Dibromochloromethane	11.335	129	36659	24.115	ug/l	99
54) 1,2-Dibromoethane	11.453	107	31508	21.088	ug/l	96
55) 2-Chloroethyl vinyl ether	10.141	63	134170	106.194	ug/l	98
56) Bromoform	12.559	173	24001	22.967	ug/l #	98
58) 4-Methyl-2-Pentanone	10.429	43	265017	113.711	ug/l	94
59) 2-Hexanone	11.182	43	174070	115.665	ug/l	87
61) Tetrachloroethene	11.082	164	23643	20.594	ug/l	96
62) Toluene	10.612	91	124453	19.008	ug/l	99
64) Chlorobenzene	11.871	112	83013	19.876	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.941	131	33054	23.952	ug/l	95
66) Ethyl Benzene	11.947	91	129125	18.017	ug/l	98
67) m/p-Xylenes	12.053	106	104556	38.072	ug/l	100
68) o-Xylene	12.376	106	47506	18.132	ug/l	98
69) Styrene	12.394	104	83290	18.517	ug/l	97
70) Isopropylbenzene	12.676	105	122907	18.835	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	49227	20.959	ug/l	97
72) 1,2,3-Trichloropropane	12.970	75	41005m	20.245	ug/l	
73) Bromobenzene	12.959	156	33306	21.041	ug/l	92
74) n-propylbenzene	13.018	91	157364	19.740	ug/l	100
75) 2-Chlorotoluene	13.106	91	96423	20.021	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	108489	20.423	ug/l	98
77) t-1,4-Dichloro-2-butene	12.718	75	14564	16.210	ug/l	96
78) 4-Chlorotoluene	13.200	91	100169	20.307	ug/l	98
79) tert-butylbenzene	13.418	119	88031	19.714	ug/l	98
80) 1,2,4-Trimethylbenzene	13.465	105	110414	20.699	ug/l	97
81) sec-Butylbenzene	13.594	105	131396	20.242	ug/l	99
82) p-Isopropyltoluene	13.706	119	110396	20.437	ug/l	95
83) 1,3-Dichlorobenzene	13.712	146	66565	21.838	ug/l	98
84) 1,4-Dichlorobenzene	13.794	146	66085	21.542	ug/l	97
85) n-Butylbenzene	14.035	91	99667	20.222	ug/l	97
86) Hexachloroethane	14.306	117	23561	23.042	ug/l	95
87) 1,2-Dichlorobenzene	14.088	146	63275	22.016	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.694	75	10346	19.562	ug/l	97
89) 1,2,4-Trichlorobenzene	15.817	180	34895	21.460	ug/l	96
90) Hexachlorobutadiene	15.470	225	16396	33.980	ug/l	96
91) Naphthalene	15.617	128	111265	17.387	ug/l	98
92) 1,2,3-Trichlorobenzene	15.817	180	34895	21.460	ug/l	96

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

