

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072425\
 Data File : VN087415.D
 Acq On : 24 Jul 2025 13:50
 Operator : JC\MD
 Sample : Q2683-04MS
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DSN001MS

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/25/2025
 Supervised By : Mahesh Dadoda 07/25/2025

Quant Time: Jul 25 04:54:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 24 05:11:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	23884m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.088	114	115345	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	107964	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	61851	31.400	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.667%			
60) 4-Bromofluorobenzene	12.829	95	53449	29.674	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.900%			
63) Toluene-d8	10.547	98	149276	30.403	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.333%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	29697	20.321	ug/l	78
3) Chloromethane	2.389	50	26652	18.361	ug/l	96
4) Vinyl Chloride	2.536	62	30753	19.223	ug/l	95
5) Bromomethane	2.989	94	22073	22.297	ug/l	99
6) Chloroethane	3.136	64	24783	20.157	ug/l	90
7) Trichlorofluoromethane	3.518	101	56479	20.759	ug/l	92
8) Diethyl Ether	3.965	74	21496	19.848	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	28627	19.854	ug/l #	58
10) 1,1-Dichloroethene	4.330	96	29572m	19.755	ug/l	
11) Methyl Iodide	4.583	142	14272	13.070	ug/l	80
12) Methyl Acetate	5.024	43	40105	20.598	ug/l #	89
13) Acrolein	4.171	56	40188	113.535	ug/l	95
14) Acrylonitrile	5.706	53	87253	98.128	ug/l	96
15) Acetone	4.430	58	38306	122.022	ug/l	87
16) Carbon Disulfide	4.700	76	72188	18.673	ug/l #	95
17) Allyl chloride	5.018	41	37095	18.090	ug/l	99
18) Methylene Chloride	5.277	84	30820m	20.344	ug/l	
19) trans-1,2-Dichloroethene	5.771	96	28098	19.114	ug/l	87
20) Diisopropyl ether	6.659	45	93978	18.124	ug/l	96
21) 1,1-Dichloroethane	6.559	63	53883	19.455	ug/l	94
22) cis-1,2-Dichloroethene	7.477	96	31152	18.091	ug/l #	87
23) tert-Butyl Alcohol	5.530	59	29793	97.765	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	89085	18.416	ug/l #	79
25) Chloroform	7.953	83	62984	20.764	ug/l	95
26) Cyclohexane	8.241	56	34652	16.783	ug/l #	93
29) 1,1-Dichloropropene	8.353	75	35087	17.829	ug/l	98
30) 2-Butanone	7.471	43	129193	96.397	ug/l	99
31) 2,2-Dichloropropane	7.477	77	47952	18.554	ug/l	98
32) 1,1,1-Trichloroethane	8.153	97	51899	20.150	ug/l	99
33) Carbon Tetrachloride	8.347	117	42893	19.170	ug/l	86
34) Benzene	8.588	78	117145	18.431	ug/l	98
35) Methacrylonitrile	7.771	41	25361	17.995	ug/l	87
36) 1,2-Dichloroethane	8.659	62	47186	18.819	ug/l	98
37) Trichloroethene	9.330	130	27422	18.906	ug/l	88
38) Methylcyclohexane	9.588	83	34910	16.781	ug/l	99
39) 1,2-Dichloropropane	9.612	63	30542	19.128	ug/l	91
40) Dibromomethane	9.688	93	24108	19.515	ug/l	98
41) Bromodichloromethane	9.871	83	49310	20.104	ug/l	95
42) Vinyl Acetate	6.594	43	387404	85.331	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072425\
 Data File : VN087415.D
 Acq On : 24 Jul 2025 13:50
 Operator : JC\MD
 Sample : Q2683-04MS
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DSN001MS

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/25/2025
 Supervised By : Mahesh Dadoda 07/25/2025

Quant Time: Jul 25 04:54:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 24 05:11:26 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	48912	17.927	ug/l #	76
44) Isopropyl Acetate	8.677	43	77765	18.054	ug/l	99
45) 1,4-Dioxane	9.682	88	9873	372.033	ug/l #	56
46) Methyl methacrylate	9.671	41	35278	17.785	ug/l	96
47) n-amyl Acetate	12.523	43	45169m	17.499	ug/l	
48) t-1,3-Dichloropropene	10.818	75	45950	17.561	ug/l	97
49) cis-1,3-Dichloropropene	10.294	75	48545	18.551	ug/l	97
50) 1,1,2-Trichloroethane	10.994	97	30062	18.842	ug/l	95
51) Ethyl methacrylate	10.859	69	41648	17.070	ug/l	96
52) 1,3-Dichloropropane	11.147	76	51006	18.594	ug/l	96
53) Dibromochloromethane	11.341	129	38817	20.758	ug/l	95
54) 1,2-Dibromoethane	11.453	107	31004	18.959	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	137524	101.325	ug/l	98
56) Bromoform	12.559	173	25548	19.210	ug/l #	96
58) 4-Methyl-2-Pentanone	10.429	43	265376	100.521	ug/l	98
59) 2-Hexanone	11.182	43	167344	93.912	ug/l	99
61) Tetrachloroethene	11.082	164	23404	19.412	ug/l	86
62) Toluene	10.612	91	123987	18.857	ug/l	98
64) Chlorobenzene	11.871	112	80311	19.105	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.941	131	29213	19.017	ug/l	99
66) Ethyl Benzene	11.947	91	126238	17.734	ug/l	97
67) m/p-Xylenes	12.053	106	103092	36.596	ug/l	98
68) o-Xylene	12.376	106	48692	18.019	ug/l	98
69) Styrene	12.394	104	83758	17.815	ug/l	100
70) Isopropylbenzene	12.676	105	117372	17.246	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.918	83	46547	19.442	ug/l	97
72) 1,2,3-Trichloropropane	12.976	75	40660m	19.010	ug/l	
73) Bromobenzene	12.959	156	32044	18.089	ug/l	97
74) n-propylbenzene	13.018	91	151600	17.639	ug/l	100
75) 2-Chlorotoluene	13.106	91	93066	18.029	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	101864	17.207	ug/l	99
77) t-1,4-Dichloro-2-butene	12.723	75	15449	18.074	ug/l	95
78) 4-Chlorotoluene	13.200	91	96502	17.529	ug/l	99
79) tert-butylbenzene	13.418	119	87344	17.373	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	105758	17.501	ug/l	98
81) sec-Butylbenzene	13.594	105	124114	17.106	ug/l	96
82) p-Isopropyltoluene	13.706	119	104014	16.703	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	64705	18.129	ug/l	99
84) 1,4-Dichlorobenzene	13.794	146	64034	18.176	ug/l	97
85) n-Butylbenzene	14.035	91	95090	16.580	ug/l	99
86) Hexachloroethane	14.312	117	21778	17.971	ug/l	99
87) 1,2-Dichlorobenzene	14.088	146	59972	17.846	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.700	75	10517	18.880	ug/l	94
89) 1,2,4-Trichlorobenzene	15.817	180	34230	17.657	ug/l	97
90) Hexachlorobutadiene	15.476	225	15296	19.130	ug/l	96
91) Naphthalene	15.617	128	111447	17.273	ug/l	99
92) 1,2,3-Trichlorobenzene	15.817	180	34230	17.657	ug/l	97

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

