

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086257.D
 Acq On : 14 Apr 2025 09:48
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/16/2025
 Supervised By : Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 15 03:03:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	32024	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	197357	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	173474	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	93528	29.943	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.800%		
60) 4-Bromofluorobenzene	12.847	95	101678	29.439	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.133%		
63) Toluene-d8	10.565	98	292978	29.915	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.733%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	51705	20.151	ug/l	100
3) Chloromethane	2.359	50	67862	19.136	ug/l	99
4) Vinyl Chloride	2.518	62	64550	19.110	ug/l	98
5) Bromomethane	2.965	94	30779	18.267	ug/l	95
6) Chloroethane	3.124	64	41142	19.288	ug/l	100
7) Trichlorofluoromethane	3.506	101	70115	19.135	ug/l	99
8) Diethyl Ether	3.959	74	32172	19.039	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	43514	19.258	ug/l	98
10) 1,1-Dichloroethene	4.342	96	45539	18.675	ug/l	96
11) Methyl Iodide	4.589	142	52123	18.598	ug/l	97
12) Methyl Acetate	5.024	43	63492	18.438	ug/l	97
13) Acrolein	4.177	56	43778	111.843	ug/l	100
14) Acrylonitrile	5.712	53	131269	90.298	ug/l	99
15) Acetone	4.424	58	31209	84.669	ug/l	81
16) Carbon Disulfide	4.712	76	132270	18.916	ug/l	100
17) Allyl chloride	5.018	41	78898	18.564	ug/l	97
18) Methylene Chloride	5.271	84	52153	18.758	ug/l	95
19) trans-1,2-Dichloroethene	5.789	96	47367	18.441	ug/l	95
20) Diisopropyl ether	6.665	45	173261	18.962	ug/l	98
21) 1,1-Dichloroethane	6.565	63	94571	19.400	ug/l	97
22) cis-1,2-Dichloroethene	7.482	96	58597	19.151	ug/l	98
23) tert-Butyl Alcohol	5.506	59	52600	87.324	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	167022	18.980	ug/l	99
25) Chloroform	7.965	83	88484	19.034	ug/l	97
26) Cyclohexane	8.253	56	86005	18.858	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	66713	18.870	ug/l	99
30) 2-Butanone	7.477	43	171707	87.649	ug/l	99
31) 2,2-Dichloropropane	7.482	77	84554	19.429	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	75829	18.645	ug/l	99
33) Carbon Tetrachloride	8.353	117	61318	18.867	ug/l	97
34) Benzene	8.600	78	211172	18.775	ug/l	99
35) Methacrylonitrile	7.777	41	39350	17.817	ug/l	94
36) 1,2-Dichloroethane	8.665	62	67422	19.155	ug/l	99
37) Trichloroethene	9.347	130	52165	19.222	ug/l	99
38) Methylcyclohexane	9.600	83	81444	18.783	ug/l	99
39) 1,2-Dichloropropane	9.618	63	52917	18.907	ug/l	98
40) Dibromomethane	9.706	93	33301	18.422	ug/l	99
41) Bromodichloromethane	9.882	83	71754	18.478	ug/l	99
42) Vinyl Acetate	6.600	43	620604	93.065	ug/l	99

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Quant Time: Apr 15 03:03:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	70547m	17.853	ug/l	
44) Isopropyl Acetate	8.682	43	126923	17.314	ug/l	97
45) 1,4-Dioxane	9.688	88	21249	364.534	ug/l #	92
46) Methyl methacrylate	9.676	41	58920	18.242	ug/l	95
47) n-amyl Acetate	12.488	43	99949	17.197	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	81596	18.586	ug/l	98
49) cis-1,3-Dichloropropene	10.306	75	87501	18.832	ug/l	95
50) 1,1,2-Trichloroethane	11.012	97	46793	18.457	ug/l	97
51) Ethyl methacrylate	10.871	69	84381	17.910	ug/l	98
52) 1,3-Dichloropropane	11.159	76	84556	18.712	ug/l	99
53) Dibromochloromethane	11.359	129	51833	18.691	ug/l	99
54) 1,2-Dibromoethane	11.465	107	47300	18.482	ug/l	99
55) 2-Chloroethyl vinyl ether	10.153	63	197031	110.673	ug/l	100
56) Bromoform	12.576	173	33228	18.314	ug/l	97
58) 4-Methyl-2-Pentanone	10.441	43	358624	91.099	ug/l	100
59) 2-Hexanone	11.188	43	264746	90.316	ug/l	99
61) Tetrachloroethene	11.100	164	49659	19.384	ug/l	98
62) Toluene	10.623	91	221443	19.032	ug/l	100
64) Chlorobenzene	11.888	112	135157	19.013	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	44831	19.109	ug/l	99
66) Ethyl Benzene	11.959	91	242647	18.804	ug/l	100
67) m/p-Xylenes	12.065	106	180457	37.610	ug/l	100
68) o-Xylene	12.394	106	91065	19.296	ug/l	97
69) Styrene	12.406	104	148905	18.708	ug/l	100
70) Isopropylbenzene	12.694	105	221830	19.063	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	60935	18.397	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	63106m	18.304	ug/l	
73) Bromobenzene	12.976	156	49010	19.012	ug/l	98
74) n-propylbenzene	13.029	91	261891	19.060	ug/l	100
75) 2-Chlorotoluene	13.123	91	162087	18.767	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	180756	18.910	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	29299	18.430	ug/l	96
78) 4-Chlorotoluene	13.217	91	160361	18.592	ug/l	100
79) tert-butylbenzene	13.435	119	154513	18.681	ug/l	97
80) 1,2,4-Trimethylbenzene	13.476	105	183217	18.902	ug/l	99
81) sec-Butylbenzene	13.612	105	220196	19.085	ug/l	99
82) p-Isopropyltoluene	13.723	119	185966	19.321	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	90204	18.827	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	89476	18.615	ug/l	99
85) n-Butylbenzene	14.053	91	164579	18.955	ug/l	99
86) Hexachloroethane	14.329	117	30879	19.019	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	88400	18.686	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	12505	16.576	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	41499	18.029	ug/l	98
90) Hexachlorobutadiene	15.500	225	17114	17.220	ug/l	98
91) Naphthalene	15.635	128	150034	16.532	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	41499	18.029	ug/l	98

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

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