

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
 Data File : VN088070.D
 Acq On : 17 Oct 2025 16:20
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/20/2025
 Supervised By : Mahesh Dadoda 10/20/2025

Quant Time: Oct 18 01:32:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 09 02:36:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.800	128	59599	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	300675	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	264956	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	156848	33.797	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 112.667%#			
60) 4-Bromofluorobenzene	12.823	95	129311	29.605	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.667%			
63) Toluene-d8	10.547	98	365740	30.982	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.267%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	50835	14.892	ug/l	95
3) Chloromethane	2.383	50	66374	17.150	ug/l	98
4) Vinyl Chloride	2.536	62	65898	16.330	ug/l	100
5) Bromomethane	2.983	94	46147	21.266	ug/l	98
6) Chloroethane	3.142	64	50735	19.059	ug/l	95
7) Trichlorofluoromethane	3.512	101	95379	17.381	ug/l	99
8) Diethyl Ether	3.965	74	50353	20.308	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	44961	15.305	ug/l	83
10) 1,1-Dichloroethene	4.336	96	50712	16.183	ug/l	99
11) Methyl Iodide	4.583	142	44321	15.346	ug/l	97
12) Methyl Acetate	5.018	43	104143	20.443	ug/l #	87
13) Acrolein	4.177	56	85771	108.798	ug/l #	10
14) Acrylonitrile	5.706	53	222393	90.461	ug/l	99
15) Acetone	4.424	58	58266	80.928	ug/l	91
16) Carbon Disulfide	4.706	76	150130	15.283	ug/l	96
17) Allyl chloride	5.018	41	101364	17.142	ug/l	97
18) Methylene Chloride	5.271	84	70773	17.770	ug/l	98
19) trans-1,2-Dichloroethene	5.777	96	58613	16.178	ug/l #	83
20) Diisopropyl ether	6.659	45	244763	18.182	ug/l	96
21) 1,1-Dichloroethane	6.553	63	124129	17.712	ug/l	95
22) cis-1,2-Dichloroethene	7.471	96	76820	16.938	ug/l	97
23) tert-Butyl Alcohol	5.518	59	77713	78.817	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	248330	18.359	ug/l	98
25) Chloroform	7.947	83	129313	17.881	ug/l	98
26) Cyclohexane	8.235	56	86407	14.881	ug/l #	97
29) 1,1-Dichloropropene	8.347	75	74610	17.311	ug/l	95
30) 2-Butanone	7.471	43	306684	96.482	ug/l	97
31) 2,2-Dichloropropane	7.471	77	92041	16.574	ug/l	99
32) 1,1,1-Trichloroethane	8.147	97	99753	18.523	ug/l	97
33) Carbon Tetrachloride	8.341	117	78779	17.464	ug/l	90
34) Benzene	8.588	78	262479	18.361	ug/l	97
35) Methacrylonitrile	7.759	41	71714	21.454	ug/l	97
36) 1,2-Dichloroethane	8.653	62	106280	21.415	ug/l	98
37) Trichloroethene	9.335	130	55500	16.387	ug/l	89
38) Methylcyclohexane	9.582	83	86881	16.324	ug/l	97
39) 1,2-Dichloropropane	9.600	63	72607	20.256	ug/l	97
40) Dibromomethane	9.688	93	52896	20.273	ug/l	92
41) Bromodichloromethane	9.865	83	106013	19.894	ug/l	99
42) Vinyl Acetate	6.588	43	1062580	98.126	ug/l	98

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 ALS Vial : 17 Sample Multiplier: 1

Instrument :
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 VSTDCCC020EC

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	129495	21.193	ug/l	95
44) Isopropyl Acetate	8.671	43	204545	20.496	ug/l	98
45) 1,4-Dioxane	9.682	88	22824	343.862	ug/l #	92
46) Methyl methacrylate	9.659	41	92945	21.148	ug/l	94
47) n-amyl Acetate	12.688	43	109237m	23.093	ug/l	
48) t-1,3-Dichloropropene	10.818	75	110129	18.585	ug/l	95
49) cis-1,3-Dichloropropene	10.288	75	114306	18.493	ug/l	93
50) 1,1,2-Trichloroethane	10.994	97	69396	20.084	ug/l	92
51) Ethyl methacrylate	10.853	69	116299	19.888	ug/l	98
52) 1,3-Dichloropropane	11.141	76	121472	20.150	ug/l	100
53) Dibromochloromethane	11.335	129	75269	18.221	ug/l	98
54) 1,2-Dibromoethane	11.447	107	70696	19.138	ug/l	99
55) 2-Chloroethyl vinyl ether	10.135	63	320858	101.652	ug/l	98
56) Bromoform	12.559	173	48626	17.412	ug/l	98
58) 4-Methyl-2-Pentanone	10.424	43	615794	103.906	ug/l	97
59) 2-Hexanone	11.176	43	398366	101.810	ug/l	98
61) Tetrachloroethene	11.082	164	43607	16.252	ug/l	88
62) Toluene	10.606	91	263452	17.529	ug/l	99
64) Chlorobenzene	11.870	112	163621	17.045	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.935	131	60327	18.236	ug/l	99
66) Ethyl Benzene	11.941	91	274568	16.801	ug/l	99
67) m/p-Xylenes	12.047	106	209916	33.320	ug/l	97
68) o-Xylene	12.376	106	102351	16.320	ug/l	91
69) Styrene	12.388	104	177349	17.094	ug/l	99
70) Isopropylbenzene	12.670	105	253224	16.474	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.912	83	103739	19.906	ug/l	97
72) 1,2,3-Trichloropropane	12.970	75	98165m	20.282	ug/l	
73) Bromobenzene	12.959	156	62103	16.530	ug/l	87
74) n-propylbenzene	13.012	91	311360	16.780	ug/l	98
75) 2-Chlorotoluene	13.100	91	193751	17.077	ug/l	96
76) 1,3,5-Trimethylbenzene	13.147	105	217625	16.667	ug/l	98
77) t-1,4-Dichloro-2-butene	12.717	75	32577	16.890	ug/l	83
78) 4-Chlorotoluene	13.200	91	198441	17.215	ug/l	94
79) tert-butylbenzene	13.412	119	192870	17.040	ug/l	96
80) 1,2,4-Trimethylbenzene	13.459	105	217380	16.631	ug/l	97
81) sec-Butylbenzene	13.594	105	272706	17.136	ug/l	98
82) p-Isopropyltoluene	13.706	119	228541	16.820	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	118146	16.714	ug/l	92
84) 1,4-Dichlorobenzene	13.788	146	116785	16.020	ug/l	97
85) n-Butylbenzene	14.029	91	215896	17.079	ug/l	98
86) Hexachloroethane	14.306	117	43605	16.020	ug/l	86
87) 1,2-Dichlorobenzene	14.082	146	117280	16.868	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.694	75	24122	20.154	ug/l	93
89) 1,2,4-Trichlorobenzene	15.811	180	67590	16.320	ug/l	98
90) Hexachlorobutadiene	15.476	225	23486	16.294	ug/l	96
91) Naphthalene	15.611	128	271710	17.920	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	67590	16.320	ug/l	98

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

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