

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112025\
 Data File : VN088325.D
 Acq On : 20 Nov 2025 12:44
 Operator : JC\MD
 Sample : Q3676-03MSD
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OUTFALL-DSN-001MSD

Quant Time: Nov 21 03:31:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 14 00:49:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone
 11/21/2025
 Supervised By :Semsetun
 Yesilyurt
 11/21/2025

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

Internal Standards						
1) Bromochloromethane	7.794	128	34515	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	167024	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	156623	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	91543	29.036	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.800%		
60) 4-Bromofluorobenzene	12.829	95	74605	28.178	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	93.933%		
63) Toluene-d8	10.547	98	217495	29.331	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.767%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	35417	14.598	ug/l	97
3) Chloromethane	2.383	50	50873	20.337	ug/l	93
4) Vinyl Chloride	2.542	62	42755	16.164	ug/l	94
5) Bromomethane	2.983	94	25287	17.930	ug/l	89
6) Chloroethane	3.142	64	27917	17.075	ug/l	97
7) Trichlorofluoromethane	3.512	101	56165	15.146	ug/l	93
8) Diethyl Ether	3.965	74	22556	16.274	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.377	101	29146	14.982	ug/l	71
10) 1,1-Dichloroethene	4.348	96	30805	16.231	ug/l	86
11) Methyl Iodide	4.583	142	25359	12.555	ug/l #	88
12) Methyl Acetate	5.018	43	65220	21.300	ug/l	99
13) Acrolein	4.177	56	72941	161.912	ug/l	99
14) Acrylonitrile	5.706	53	134681	96.801	ug/l #	88
15) Acetone	4.424	58	209179	514.117	ug/l	100
16) Carbon Disulfide	4.700	76	102213	15.968	ug/l	99
17) Allyl chloride	5.018	41	60674	16.451	ug/l	94
18) Methylene Chloride	5.271	84	41420	17.558	ug/l	95
19) trans-1,2-Dichloroethene	5.777	96	36135	16.350	ug/l	96
20) Diisopropyl ether	6.653	45	135923	17.246	ug/l #	98
21) 1,1-Dichloroethane	6.553	63	73223	16.491	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	42477	16.536	ug/l	99
23) tert-Butyl Alcohol	5.518	59	63778	124.664	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	126262	16.500	ug/l #	73
25) Chloroform	7.953	83	173511	39.437	ug/l	99
26) Cyclohexane	8.236	56	51482	13.727	ug/l #	95
29) 1,1-Dichloropropene	8.353	75	46600	16.721	ug/l	99
30) 2-Butanone	7.471	43	188677	104.662	ug/l	97
31) 2,2-Dichloropropane	7.477	77	59864	17.416	ug/l #	80
32) 1,1,1-Trichloroethane	8.153	97	61609	17.933	ug/l	96
33) Carbon Tetrachloride	8.341	117	50613	17.252	ug/l	96
34) Benzene	8.588	78	154076	18.496	ug/l	96
35) Methacrylonitrile	7.765	41	36453	19.386	ug/l	95
36) 1,2-Dichloroethane	8.659	62	62472	19.270	ug/l	100
37) Trichloroethene	9.335	130	34032	18.028	ug/l	92
38) Methylcyclohexane	9.582	83	44012	13.775	ug/l	95
39) 1,2-Dichloropropane	9.600	63	41038	19.095	ug/l	98
40) Dibromomethane	9.682	93	30194	19.554	ug/l	99
41) Bromodichloromethane	9.865	83	80864	26.014	ug/l	98
42) Vinyl Acetate	6.594	43	550138	91.434	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.547	43	63132	17.405	ug/l	#	85
44) Isopropyl Acetate	8.671	43	107919	19.306	ug/l		98
45) 1,4-Dioxane	9.677	88	18751	557.040	ug/l	#	84
46) Methyl methacrylate	9.665	41	46935	17.943	ug/l		98
47) n-amyl Acetate	12.665	43	46436m	16.394	ug/l		
48) t-1,3-Dichloropropene	10.812	75	60331	18.146	ug/l		99
49) cis-1,3-Dichloropropene	10.294	75	61261	17.709	ug/l		98
50) 1,1,2-Trichloroethane	11.000	97	37423	19.600	ug/l		95
51) Ethyl methacrylate	10.853	69	53194	16.933	ug/l		96
52) 1,3-Dichloropropane	11.141	76	67280	19.348	ug/l		98
53) Dibromochloromethane	11.335	129	44702	20.382	ug/l		93
54) 1,2-Dibromoethane	11.447	107	36901	18.600	ug/l		98
56) Bromoform	12.559	173	24964	17.983	ug/l		96
58) 4-Methyl-2-Pentanone	10.424	43	375872	106.106	ug/l		94
59) 2-Hexanone	11.182	43	207729	88.310	ug/l		99
61) Tetrachloroethene	11.082	164	25918	16.050	ug/l		87
62) Toluene	10.612	91	158441	17.628	ug/l		100
64) Chlorobenzene	11.871	112	99334	17.845	ug/l		98
65) 1,1,1,2-Tetrachloroethane	11.941	131	35127	18.437	ug/l		96
66) Ethyl Benzene	11.941	91	163280	16.483	ug/l		98
67) m/p-Xylenes	12.053	106	120670	32.574	ug/l		98
68) o-Xylene	12.376	106	55295	15.823	ug/l		99
69) Styrene	12.394	104	92168	15.529	ug/l		99
70) Isopropylbenzene	12.671	105	140914	15.216	ug/l		100
71) 1,1,2,2-Tetrachloroethane	12.918	83	58625	19.542	ug/l		99
72) 1,2,3-Trichloropropane	12.976	75	57613m	19.824	ug/l		
73) Bromobenzene	12.959	156	37829	18.093	ug/l		92
74) n-propylbenzene	13.012	91	174924	15.262	ug/l		98
75) 2-Chlorotoluene	13.106	91	108157	15.519	ug/l		98
76) 1,3,5-Trimethylbenzene	13.147	105	120083	15.447	ug/l		99
77) t-1,4-Dichloro-2-butene	12.718	75	16684	16.717	ug/l		91
78) 4-Chlorotoluene	13.200	91	106474	15.076	ug/l		93
79) tert-butylbenzene	13.418	119	99187	14.903	ug/l		99
80) 1,2,4-Trimethylbenzene	13.459	105	121001	15.653	ug/l		98
81) sec-Butylbenzene	13.594	105	142301	14.659	ug/l		100
82) p-Isopropyltoluene	13.706	119	118781	14.808	ug/l		97
83) 1,3-Dichlorobenzene	13.712	146	71298	17.551	ug/l		99
84) 1,4-Dichlorobenzene	13.788	146	73420	17.847	ug/l		97
85) n-Butylbenzene	14.035	91	114857	15.024	ug/l		99
86) Hexachloroethane	14.312	117	26039	16.954	ug/l		97
87) 1,2-Dichlorobenzene	14.082	146	66436	17.327	ug/l		97
88) 1,2-Dibromo-3-Chloropr...	14.700	75	12990	18.422	ug/l		99
89) 1,2,4-Trichlorobenzene	15.811	180	34443	16.008	ug/l		97
90) Hexachlorobutadiene	15.476	225	14458	17.302	ug/l		98
91) Naphthalene	15.617	128	128004	16.442	ug/l		99
92) 1,2,3-Trichlorobenzene	15.811	180	34443	16.008	ug/l		97

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

