

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082025\
 Data File : VN087609.D
 Acq On : 20 Aug 2025 11:57
 Operator : JC\MD
 Sample : Q2902-02MS
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OUTFALL-DSN-001MS

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/21/2025
 Supervised By : Mahesh Dadoda 08/25/2025

Quant Time: Aug 21 02:42:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.800	128	50255	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.088	114	274038	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	252169	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	139348	30.063	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.200%			
60) 4-Bromofluorobenzene	12.829	95	125044	28.814	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.033%			
63) Toluene-d8	10.547	98	341651	29.445	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.167%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	58332	17.778	ug/l	99
3) Chloromethane	2.389	50	59394	17.643	ug/l	100
4) Vinyl Chloride	2.536	62	64125	17.960	ug/l	96
5) Bromomethane	2.983	94	31072	16.078	ug/l	80
6) Chloroethane	3.136	64	46028	19.992	ug/l	93
7) Trichlorofluoromethane	3.512	101	100652	19.588	ug/l	95
8) Diethyl Ether	3.959	74	43495	20.317	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	56668	21.626	ug/l	88
10) 1,1-Dichloroethene	4.336	96	56327	20.464	ug/l	96
11) Methyl Iodide	4.589	142	27847m	12.849	ug/l	
12) Methyl Acetate	5.018	43	109142	21.488	ug/l #	89
13) Acrolein	4.177	56	100588	129.661	ug/l	97
14) Acrylonitrile	5.712	53	209670	94.534	ug/l	99
15) Acetone	4.424	58	435622	687.405	ug/l	98
16) Carbon Disulfide	4.706	76	145043	16.988	ug/l	97
17) Allyl chloride	5.012	41	93151	16.604	ug/l	91
18) Methylene Chloride	5.271	84	69838	19.709	ug/l	88
19) trans-1,2-Dichloroethene	5.765	96	57487m	17.563	ug/l	
20) Diisopropyl ether	6.659	45	233146	18.243	ug/l	95
21) 1,1-Dichloroethane	6.547	63	122875	18.600	ug/l	96
22) cis-1,2-Dichloroethene	7.477	96	74596	18.523	ug/l	98
23) tert-Butyl Alcohol	5.524	59	91421	97.002	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	231270	18.440	ug/l #	75
25) Chloroform	7.947	83	218606	31.702	ug/l	95
26) Cyclohexane	8.241	56	96517	18.248	ug/l #	98
29) 1,1-Dichloropropene	8.353	75	82765	18.517	ug/l	98
30) 2-Butanone	7.471	43	340608	103.384	ug/l	100
31) 2,2-Dichloropropane	7.477	77	107729	18.688	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	106930	18.758	ug/l	99
33) Carbon Tetrachloride	8.347	117	89205	18.837	ug/l	95
34) Benzene	8.588	78	268810	19.052	ug/l	97
35) Methacrylonitrile	7.765	41	68369	19.230	ug/l	96
36) 1,2-Dichloroethane	8.653	62	103708	18.186	ug/l	99
37) Trichloroethene	9.341	130	59418	19.118	ug/l	83
38) Methylcyclohexane	9.582	83	92618	17.862	ug/l	98
39) 1,2-Dichloropropane	9.600	63	69987	19.347	ug/l	96
40) Dibromomethane	9.688	93	52444	19.322	ug/l	98
41) Bromodichloromethane	9.871	83	123218	21.848	ug/l	98
42) Vinyl Acetate	6.594	43	968565	89.271	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	123727	19.439	ug/l	98
44) Isopropyl Acetate	8.677	43	197742	18.328	ug/l	98
45) 1,4-Dioxane	9.682	88	30952	450.018	ug/l	96
46) Methyl methacrylate	9.665	41	92516	18.166	ug/l	86
47) n-amyl Acetate	12.535	43	114521m	19.215	ug/l	
48) t-1,3-Dichloropropene	10.818	75	111130	18.112	ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	111376	18.037	ug/l	94
50) 1,1,2-Trichloroethane	11.000	97	66421	19.369	ug/l	93
51) Ethyl methacrylate	10.859	69	104302	17.270	ug/l	96
52) 1,3-Dichloropropane	11.141	76	119707	19.376	ug/l	100
53) Dibromochloromethane	11.335	129	79034	19.957	ug/l	99
54) 1,2-Dibromoethane	11.453	107	68348	18.775	ug/l	97
56) Bromoform	12.559	173	49161	18.768	ug/l #	99
58) 4-Methyl-2-Pentanone	10.429	43	634761	97.852	ug/l	100
59) 2-Hexanone	11.176	43	394402	89.483	ug/l	98
61) Tetrachloroethene	11.082	164	47052	19.152	ug/l	96
62) Toluene	10.612	91	288250	18.520	ug/l	99
64) Chlorobenzene	11.871	112	176820	18.489	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	60167	17.894	ug/l	98
66) Ethyl Benzene	11.941	91	313471	18.070	ug/l	96
67) m/p-Xylenes	12.053	106	234674	36.855	ug/l	94
68) o-Xylene	12.376	106	112552	17.967	ug/l	95
69) Styrene	12.394	104	190698	17.828	ug/l	97
70) Isopropylbenzene	12.670	105	287573	18.069	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	107758	19.761	ug/l	100
72) 1,2,3-Trichloropropane	12.976	75	102002m	20.079	ug/l	
73) Bromobenzene	12.965	156	67709	18.352	ug/l	97
74) n-propylbenzene	13.012	91	364448	18.336	ug/l	100
75) 2-Chlorotoluene	13.106	91	220760	18.056	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	246343	18.078	ug/l	99
77) t-1,4-Dichloro-2-butene	12.723	75	29449	15.314	ug/l	83
78) 4-Chlorotoluene	13.200	91	226327	18.267	ug/l	98
79) tert-butylbenzene	13.417	119	207454	18.057	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	249708	18.339	ug/l	99
81) sec-Butylbenzene	13.594	105	307869	18.407	ug/l	99
82) p-Isopropyltoluene	13.706	119	255793	18.419	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	134487	19.143	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	137073	19.244	ug/l	98
85) n-Butylbenzene	14.035	91	248166	18.265	ug/l	97
86) Hexachloroethane	14.312	117	48796	17.993	ug/l	97
87) 1,2-Dichlorobenzene	14.082	146	132579	19.769	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.700	75	26154	18.933	ug/l	97
89) 1,2,4-Trichlorobenzene	15.811	180	76100	18.988	ug/l	98
90) Hexachlorobutadiene	15.476	225	28421	18.237	ug/l	98
91) Naphthalene	15.617	128	280180	18.334	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	76100	18.988	ug/l	98

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

