

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062525\
 Data File : VN087166.D
 Acq On : 25 Jun 2025 10:24
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/25/2025
 Supervised By : Mahesh Dadoda 06/26/2025

Quant Time: Jun 25 10:47:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:38:24 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	34436	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	194011	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	186774	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	74130	31.331	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.433%			
60) 4-Bromofluorobenzene	12.847	95	87432	29.816	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.400%			
63) Toluene-d8	10.571	98	247397	28.859	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 96.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.153	85	328743	140.560	ug/l	99
3) Chloromethane	2.395	50	344616	114.281	ug/l	100
4) Vinyl Chloride	2.553	62	380413	137.080	ug/l	96
5) Bromomethane	2.965	94	196072	133.348	ug/l	95
6) Chloroethane	3.142	64	199925	117.788	ug/l	98
7) Trichlorofluoromethane	3.518	101	438423	134.888	ug/l	99
8) Diethyl Ether	3.977	74	228664	168.656	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.394	101	330508	165.921	ug/l #	88
10) 1,1-Dichloroethene	4.365	96	332121	163.541	ug/l	97
11) Methyl Iodide	4.612	142	363941	152.023	ug/l	96
12) Methyl Acetate	5.047	43	529248	234.665	ug/l	99
13) Acrolein	4.200	56	494100	2120.692	ug/l	100
14) Acrylonitrile	5.736	53	1229651	1171.622	ug/l	100
15) Acetone	4.447	58	335530	1262.652	ug/l	91
16) Carbon Disulfide	4.736	76	934684	157.671	ug/l	99
17) Allyl chloride	5.042	41	547297	181.407	ug/l	92
18) Methylene Chloride	5.294	84	370628	157.151	ug/l	98
19) trans-1,2-Dichloroethene	5.806	96	353679	166.418	ug/l	97
20) Diisopropyl ether	6.688	45	1127057	169.621	ug/l	96
21) 1,1-Dichloroethane	6.583	63	665820	166.042	ug/l	99
22) cis-1,2-Dichloroethene	7.500	96	431407	167.622	ug/l	96
23) tert-Butyl Alcohol	5.547	59	464693	1378.774	ug/l #	100
24) Methyl tert-Butyl Ether	5.812	73	1188591	177.588	ug/l	97
25) Chloroform	7.977	83	646145	164.630	ug/l	99
26) Cyclohexane	8.265	56	593136	170.905	ug/l #	97
29) 1,1-Dichloropropene	8.377	75	485720	170.277	ug/l	100
30) 2-Butanone	7.494	43	1653884	1323.281	ug/l	98
31) 2,2-Dichloropropane	7.500	77	567545	168.554	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	547772	165.656	ug/l	98
33) Carbon Tetrachloride	8.371	117	465916	164.834	ug/l	99
34) Benzene	8.612	78	1449530	156.178	ug/l	97
35) Methacrylonitrile	7.788	41	324629	226.112	ug/l	94
36) 1,2-Dichloroethane	8.677	62	456777	167.948	ug/l	98
37) Trichloroethene	9.359	130	344162	133.684	ug/l	91
38) Methylcyclohexane	9.606	83	564171	178.256	ug/l	96
39) 1,2-Dichloropropane	9.624	63	370597	165.854	ug/l	98
40) Dibromomethane	9.712	93	248835	170.265	ug/l	98
41) Bromodichloromethane	9.888	83	509473	166.539	ug/l	98
42) Vinyl Acetate	6.618	43	5152202	1414.217	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	596805	233.358	ug/l	97
44) Isopropyl Acetate	8.694	43	922972	210.380	ug/l	96
45) 1,4-Dioxane	9.706	88	136174	3492.194	ug/l #	93
46) Methyl methacrylate	9.682	41	448002	221.464	ug/l	98
47) n-amyl Acetate	12.500	43	635191	180.347	ug/l #	100
48) t-1,3-Dichloropropene	10.835	75	593288	181.231	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	629822	174.914	ug/l	99
50) 1,1,2-Trichloroethane	11.018	97	355131	172.532	ug/l	98
51) Ethyl methacrylate	10.876	69	631073	189.307	ug/l	97
52) 1,3-Dichloropropane	11.165	76	622735	170.477	ug/l	98
53) Dibromochloromethane	11.359	129	393072	168.990	ug/l	98
54) 1,2-Dibromoethane	11.470	107	376916	179.142	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	1674601	1046.520	ug/l	99
56) Bromoform	12.576	173	267364	182.430	ug/l	100
58) 4-Methyl-2-Pentanone	10.447	43	2972532	1084.631	ug/l	97
59) 2-Hexanone	11.200	43	2111404	1075.545	ug/l	98
61) Tetrachloroethene	11.106	164	281420	89.636	ug/l	97
62) Toluene	10.629	91	1606715	152.743	ug/l	98
64) Chlorobenzene	11.894	112	1032685	153.939	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	340847	154.659	ug/l	99
66) Ethyl Benzene	11.965	91	1822466	160.178	ug/l	99
67) m/p-Xylenes	12.070	106	1394481	312.329	ug/l	99
68) o-Xylene	12.394	106	672570	155.436	ug/l	99
69) Styrene	12.412	104	1159533	160.846	ug/l	98
70) Isopropylbenzene	12.694	105	1669808	162.251	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	567347	231.867	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	471614m	164.456	ug/l	
73) Bromobenzene	12.976	156	398769	155.892	ug/l	96
74) n-propylbenzene	13.035	91	2036919	167.094	ug/l	98
75) 2-Chlorotoluene	13.123	91	1222718	156.271	ug/l	98
76) 1,3,5-Trimethylbenzene	13.170	105	1356652	158.459	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	240560	204.982	ug/l	94
78) 4-Chlorotoluene	13.217	91	1255673	162.009	ug/l	99
79) tert-butylbenzene	13.435	119	1162060	156.987	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	1387864	161.497	ug/l	100
81) sec-Butylbenzene	13.612	105	1597517	158.414	ug/l	99
82) p-Isopropyltoluene	13.729	119	1349971	159.427	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	729988	155.558	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	736335	157.675	ug/l	99
85) n-Butylbenzene	14.053	91	1220446	172.161	ug/l	99
86) Hexachloroethane	14.329	117	249792	173.087	ug/l	96
87) 1,2-Dichlorobenzene	14.106	146	693617	153.225	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	137557	266.961	ug/l	92
89) 1,2,4-Trichlorobenzene	15.835	180	429237	226.572	ug/l	97
90) Hexachlorobutadiene	15.500	225	120167	147.993	ug/l	98
91) Naphthalene	15.635	128	1756242	265.695	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	429237	226.572	ug/l	97

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

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