

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052925\
 Data File : VN086808.D
 Acq On : 29 May 2025 11:44
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: May 30 01:58:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052925W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 30 01:54:37 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

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

Internal Standards						
1) Bromochloromethane	7.812	128	37861	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	212173	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	192449	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	78078	30.015	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.033%			
60) 4-Bromofluorobenzene	12.847	95	90850	30.068	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.233%			
63) Toluene-d8	10.565	98	265287	30.033	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	130822	50.875	ug/l	99
3) Chloromethane	2.359	50	162092	48.890	ug/l	98
4) Vinyl Chloride	2.512	62	151575	49.678	ug/l	98
5) Bromomethane	2.954	94	77760	48.100	ug/l	95
6) Chloroethane	3.118	64	92395	49.511	ug/l	94
7) Trichlorofluoromethane	3.501	101	177458	49.659	ug/l	98
8) Diethyl Ether	3.959	74	73434	49.263	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	109498	49.997	ug/l	99
10) 1,1-Dichloroethene	4.342	96	110799	49.623	ug/l	96
11) Methyl Iodide	4.589	142	128338	48.759	ug/l	98
12) Methyl Acetate	5.018	43	122466	49.522	ug/l	96
13) Acrolein	4.177	56	70834	275.391	ug/l	98
14) Acrylonitrile	5.712	53	286457	248.248	ug/l	99
15) Acetone	4.424	58	72087	246.734	ug/l	83
16) Carbon Disulfide	4.712	76	324004	49.712	ug/l	100
17) Allyl chloride	5.024	41	163812	49.385	ug/l	96
18) Methylene Chloride	5.277	84	125584	48.432	ug/l	98
19) trans-1,2-Dichloroethene	5.789	96	116799	49.986	ug/l	97
20) Diisopropyl ether	6.665	45	366738	50.201	ug/l	98
21) 1,1-Dichloroethane	6.571	63	218975	49.668	ug/l	99
22) cis-1,2-Dichloroethene	7.483	96	139465	49.287	ug/l	98
23) tert-Butyl Alcohol	5.512	59	93013	251.010	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	366507	49.806	ug/l	98
25) Chloroform	7.959	83	210250	48.723	ug/l	99
26) Cyclohexane	8.253	56	189266	49.601	ug/l #	98
29) 1,1-Dichloropropene	8.365	75	156217	50.077	ug/l	100
30) 2-Butanone	7.477	43	342713	250.734	ug/l	99
31) 2,2-Dichloropropane	7.489	77	183830	49.922	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	180080	49.798	ug/l	98
33) Carbon Tetrachloride	8.359	117	156360	50.583	ug/l	98
34) Benzene	8.600	78	508562	50.104	ug/l	96
35) Methacrylonitrile	7.777	41	77665	49.465	ug/l	92
36) 1,2-Dichloroethane	8.665	62	147384	49.552	ug/l	99
37) Trichloroethene	9.347	130	138080	49.044	ug/l	99
38) Methylcyclohexane	9.600	83	175956	50.836	ug/l	99
39) 1,2-Dichloropropane	9.618	63	121523	49.730	ug/l	98
40) Dibromomethane	9.706	93	80141	50.142	ug/l	99
41) Bromodichloromethane	9.882	83	169106	50.546	ug/l	97
42) Vinyl Acetate	6.600	43	1022005	256.515	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	137277	49.082	ug/l	97
44) Isopropyl Acetate	8.683	43	240786	50.186	ug/l	100
45) 1,4-Dioxane	9.688	88	44687	1047.904	ug/l	94
46) Methyl methacrylate	9.677	41	114379	51.702	ug/l	97
47) n-amyl Acetate	12.488	43	192875	50.074	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	180849	50.515	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	197661	50.195	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	114479	50.856	ug/l	96
51) Ethyl methacrylate	10.871	69	187806	51.515	ug/l	96
52) 1,3-Dichloropropane	11.159	76	200223	50.120	ug/l	99
53) Dibromochloromethane	11.353	129	126446	49.708	ug/l	100
54) 1,2-Dibromoethane	11.465	107	114146	49.608	ug/l	100
55) 2-Chloroethyl vinyl ether	10.153	63	445248	254.433	ug/l	99
56) Bromoform	12.576	173	79637	49.687	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	708363	250.849	ug/l	99
59) 2-Hexanone	11.194	43	509079	251.677	ug/l	100
61) Tetrachloroethene	11.100	164	163012	50.391	ug/l	91
62) Toluene	10.629	91	538722	49.704	ug/l	100
64) Chlorobenzene	11.888	112	337771	48.866	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	112782	49.666	ug/l	98
66) Ethyl Benzene	11.959	91	595548	50.800	ug/l	97
67) m/p-Xylenes	12.065	106	465836	101.259	ug/l	99
68) o-Xylene	12.394	106	227480	51.022	ug/l	99
69) Styrene	12.406	104	379629	51.108	ug/l	100
70) Isopropylbenzene	12.694	105	539101	50.838	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	124913	49.545	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	144849m	46.634	ug/l	
73) Bromobenzene	12.976	156	130087	49.356	ug/l	98
74) n-propylbenzene	13.029	91	638895	50.865	ug/l	100
75) 2-Chlorotoluene	13.123	91	403077	49.997	ug/l	98
76) 1,3,5-Trimethylbenzene	13.171	105	448336	50.822	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	60669	50.172	ug/l	96
78) 4-Chlorotoluene	13.218	91	400961	50.207	ug/l	100
79) tert-butylbenzene	13.435	119	384679	50.435	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	447950	50.588	ug/l	98
81) sec-Butylbenzene	13.612	105	529243	50.934	ug/l	100
82) p-Isopropyltoluene	13.723	119	446383	51.162	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	242562	50.165	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	241927	50.277	ug/l	99
85) n-Butylbenzene	14.053	91	374782	51.309	ug/l	99
86) Hexachloroethane	14.329	117	73414	49.370	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	234825	50.345	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	27180	51.194	ug/l	96
89) 1,2,4-Trichlorobenzene	15.835	180	98812	50.620	ug/l	98
90) Hexachlorobutadiene	15.500	225	41982	50.179	ug/l	96
91) Naphthalene	15.635	128	348415	51.156	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	98812	50.620	ug/l	98

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

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