

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052925\
 Data File : VN086813.D
 Acq On : 29 May 2025 14:04
 Operator : JC\MD
 Sample : VN0529WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0529WBS01

Quant Time: May 30 02:41:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052925W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 30 02:22:52 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	39621	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	223467	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	200810	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80659	29.630	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.767%		
60) 4-Bromofluorobenzene	12.847	95	94574	29.997	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.000%		
63) Toluene-d8	10.565	98	275908	29.935	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.800%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	52820	19.629	ug/l	97
3) Chloromethane	2.359	50	66918	19.287	ug/l	97
4) Vinyl Chloride	2.512	62	61071	19.127	ug/l	98
5) Bromomethane	2.965	94	33067	19.546	ug/l	90
6) Chloroethane	3.124	64	37350	19.125	ug/l	100
7) Trichlorofluoromethane	3.500	101	70855	18.947	ug/l	96
8) Diethyl Ether	3.959	74	29626	18.992	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.377	101	43862	19.138	ug/l	98
10) 1,1-Dichloroethene	4.342	96	44996	19.257	ug/l	96
11) Methyl Iodide	4.589	142	52135	18.928	ug/l	99
12) Methyl Acetate	5.024	43	45851	17.670	ug/l	99
13) Acrolein	4.177	56	22987	85.750	ug/l	98
14) Acrylonitrile	5.718	53	109616	90.775	ug/l	99
15) Acetone	4.424	58	34212	111.897	ug/l	81
16) Carbon Disulfide	4.712	76	130009	19.061	ug/l	100
17) Allyl chloride	5.018	41	66118m	19.047	ug/l	
18) Methylene Chloride	5.277	84	51710	19.056	ug/l	94
19) trans-1,2-Dichloroethene	5.783	96	47474	19.415	ug/l	96
20) Diisopropyl ether	6.665	45	148454	19.418	ug/l	99
21) 1,1-Dichloroethane	6.571	63	86281	18.701	ug/l	99
22) cis-1,2-Dichloroethene	7.483	96	55900	18.877	ug/l	99
23) tert-Butyl Alcohol	5.512	59	36492	94.105	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	147656	19.174	ug/l	98
25) Chloroform	7.965	83	85345	18.899	ug/l	98
26) Cyclohexane	8.253	56	75403	18.883	ug/l #	96
29) 1,1-Dichloropropene	8.371	75	63898	19.448	ug/l	99
30) 2-Butanone	7.483	43	140193	97.384	ug/l	98
31) 2,2-Dichloropropane	7.483	77	75546	19.479	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	73176	19.213	ug/l	98
33) Carbon Tetrachloride	8.359	117	62257	19.122	ug/l	95
34) Benzene	8.606	78	202715	18.962	ug/l	99
35) Methacrylonitrile	7.771	41	29593	17.895	ug/l	98
36) 1,2-Dichloroethane	8.671	62	60257	19.235	ug/l	99
37) Trichloroethene	9.347	130	54382	18.339	ug/l	98
38) Methylcyclohexane	9.600	83	71507	19.615	ug/l	99
39) 1,2-Dichloropropane	9.618	63	48606	18.885	ug/l	99
40) Dibromomethane	9.706	93	32726	19.441	ug/l	98
41) Bromodichloromethane	9.882	83	67026	19.022	ug/l	98
42) Vinyl Acetate	6.600	43	447425	106.624	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	56619m	19.221	ug/l	
44) Isopropyl Acetate	8.682	43	95370	18.873	ug/l	99
45) 1,4-Dioxane	9.688	88	17222	383.443	ug/l	94
46) Methyl methacrylate	9.677	41	43790	18.794	ug/l	98
47) n-amyl Acetate	12.488	43	76966	18.972	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	72529	19.235	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	79851	19.253	ug/l	95
50) 1,1,2-Trichloroethane	11.012	97	46134	19.459	ug/l	95
51) Ethyl methacrylate	10.871	69	72187	18.800	ug/l	94
52) 1,3-Dichloropropane	11.159	76	79252	18.836	ug/l	99
53) Dibromochloromethane	11.353	129	49697	18.549	ug/l	100
54) 1,2-Dibromoethane	11.465	107	45658	18.840	ug/l	98
55) 2-Chloroethyl vinyl ether	10.153	63	176024	95.504	ug/l	100
56) Bromoform	12.576	173	31845	18.865	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	278301	94.450	ug/l	99
59) 2-Hexanone	11.194	43	202745	96.059	ug/l	100
61) Tetrachloroethene	11.100	164	62346	18.470	ug/l	96
62) Toluene	10.629	91	218581	19.327	ug/l	100
64) Chlorobenzene	11.888	112	138241	19.167	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.959	131	45867	19.357	ug/l	97
66) Ethyl Benzene	11.959	91	236314	19.318	ug/l	97
67) m/p-Xylenes	12.065	106	185632	38.671	ug/l	98
68) o-Xylene	12.394	106	90311	19.413	ug/l	99
69) Styrene	12.406	104	149839	19.332	ug/l	100
70) Isopropylbenzene	12.694	105	218406	19.739	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	52864	20.095	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	58756m	19.057	ug/l	
73) Bromobenzene	12.976	156	51978	18.900	ug/l	96
74) n-propylbenzene	13.029	91	253729	19.359	ug/l	100
75) 2-Chlorotoluene	13.123	91	162356	19.300	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	177756	19.311	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	22831	18.095	ug/l	90
78) 4-Chlorotoluene	13.217	91	162258	19.472	ug/l	99
79) tert-butylbenzene	13.435	119	154267	19.384	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	180132	19.496	ug/l	99
81) sec-Butylbenzene	13.612	105	208939	19.271	ug/l	99
82) p-Isopropyltoluene	13.723	119	176104	19.344	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	97275	19.280	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	95900	19.100	ug/l	99
85) n-Butylbenzene	14.053	91	146395	19.208	ug/l	99
86) Hexachloroethane	14.329	117	28052	18.079	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	92656	19.038	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	9832	17.748	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	39947	19.612	ug/l	95
90) Hexachlorobutadiene	15.494	225	17812	20.403	ug/l	95
91) Naphthalene	15.635	128	128330	18.058	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	39947	19.612	ug/l	95

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

