

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086382.D
 Acq On : 23 Apr 2025 15:02
 Operator : JC\MD
 Sample : VN0423WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0423WBS01

Quant Time: Apr 24 04:59:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

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

Internal Standards						
1) Bromochloromethane	7.812	128	28009	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	174005	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.859	117	158596	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	83325	30.856	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.867%			
60) 4-Bromofluorobenzene	12.847	95	89590	28.742	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.800%			
63) Toluene-d8	10.565	98	261745	29.999	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	41387	21.403	ug/l	94
3) Chloromethane	2.359	50	56736	20.655	ug/l	100
4) Vinyl Chloride	2.518	62	54489	20.712	ug/l	95
5) Bromomethane	2.953	94	29461	21.449	ug/l	100
6) Chloroethane	3.118	64	36681	20.914	ug/l	98
7) Trichlorofluoromethane	3.501	101	65145	20.978	ug/l	98
8) Diethyl Ether	3.953	74	27434	20.929	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	41239	21.602	ug/l	74
10) 1,1-Dichloroethene	4.342	96	40590	20.773	ug/l	98
11) Methyl Iodide	4.583	142	48193	21.079	ug/l	94
12) Methyl Acetate	5.018	43	61511	22.210	ug/l	98
13) Acrolein	4.183	56	11153m	76.023	ug/l	
14) Acrylonitrile	5.712	53	110928	107.615	ug/l	100
15) Acetone	4.424	58	32070	112.908	ug/l	99
16) Carbon Disulfide	4.712	76	106838	20.750	ug/l	98
17) Allyl chloride	5.018	41	64974	20.796	ug/l	98
18) Methylene Chloride	5.271	84	46322	20.817	ug/l	93
19) trans-1,2-Dichloroethene	5.789	96	41757	20.050	ug/l	98
20) Diisopropyl ether	6.665	45	153673	20.686	ug/l	97
21) 1,1-Dichloroethane	6.565	63	83993	20.655	ug/l	99
22) cis-1,2-Dichloroethene	7.483	96	54611	20.970	ug/l	94
23) tert-Butyl Alcohol	5.512	59	43362	108.593	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	152593	21.137	ug/l	100
25) Chloroform	7.959	83	84814	20.608	ug/l	99
26) Cyclohexane	8.253	56	75458	21.016	ug/l #	99
29) 1,1-Dichloropropene	8.365	75	60632	19.765	ug/l	99
30) 2-Butanone	7.477	43	156415	105.054	ug/l	99
31) 2,2-Dichloropropane	7.483	77	77589	19.676	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	73550	20.065	ug/l	99
33) Carbon Tetrachloride	8.359	117	59985	19.878	ug/l	96
34) Benzene	8.600	78	196998	20.191	ug/l	97
35) Methacrylonitrile	7.771	41	34714	20.439	ug/l	99
36) 1,2-Dichloroethane	8.665	62	63085	19.915	ug/l	100
37) Trichloroethene	9.347	130	46837	19.176	ug/l	93
38) Methylcyclohexane	9.594	83	69608	19.648	ug/l	98
39) 1,2-Dichloropropane	9.618	63	48735	20.219	ug/l	99
40) Dibromomethane	9.706	93	31793	19.724	ug/l	97
41) Bromodichloromethane	9.882	83	67627	19.825	ug/l	99
42) Vinyl Acetate	6.594	43	532279	103.201	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	58347m	19.802	ug/l	
44) Isopropyl Acetate	8.683	43	115079	20.578	ug/l	99
45) 1,4-Dioxane	9.688	88	16811	385.290	ug/l	98
46) Methyl methacrylate	9.677	41	52620	20.399	ug/l	97
47) n-amyl Acetate	12.488	43	93137	19.540	ug/l	100
48) t-1,3-Dichloropropene	10.829	75	74764	19.605	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	80090	19.915	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	45595	20.251	ug/l	99
51) Ethyl methacrylate	10.871	69	78410	19.996	ug/l	98
52) 1,3-Dichloropropane	11.159	76	79865	20.070	ug/l	100
53) Dibromochloromethane	11.359	129	49482	19.572	ug/l	97
54) 1,2-Dibromoethane	11.465	107	46094	20.135	ug/l	100
55) 2-Chloroethyl vinyl ether	10.153	63	173758	94.250	ug/l	99
56) Bromoform	12.576	173	31610	19.267	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	317539	103.465	ug/l	100
59) 2-Hexanone	11.188	43	234467	103.670	ug/l	99
61) Tetrachloroethene	11.100	164	46835	19.362	ug/l	95
62) Toluene	10.624	91	212008	19.971	ug/l	98
64) Chlorobenzene	11.888	112	132210	19.987	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	44063	19.922	ug/l	99
66) Ethyl Benzene	11.959	91	237165	19.848	ug/l	99
67) m/p-Xylenes	12.065	106	177837	39.224	ug/l	98
68) o-Xylene	12.394	106	88931	20.033	ug/l	97
69) Styrene	12.406	104	147440	19.595	ug/l	99
70) Isopropylbenzene	12.694	105	219743	19.830	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	61267	20.998	ug/l	97
72) 1,2,3-Trichloropropane	12.988	75	51896m	20.401	ug/l	
73) Bromobenzene	12.976	156	50295	19.742	ug/l	99
74) n-propylbenzene	13.029	91	257240	19.535	ug/l	99
75) 2-Chlorotoluene	13.123	91	163879	19.936	ug/l	98
76) 1,3,5-Trimethylbenzene	13.170	105	180475	19.849	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	26341	20.403	ug/l	99
78) 4-Chlorotoluene	13.218	91	159258	19.376	ug/l	100
79) tert-butylbenzene	13.435	119	153325	19.690	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	181681	19.565	ug/l	99
81) sec-Butylbenzene	13.612	105	216325	19.461	ug/l	99
82) p-Isopropyltoluene	13.723	119	179090	19.254	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	93109	19.334	ug/l	98
84) 1,4-Dichlorobenzene	13.806	146	92663	19.475	ug/l	99
85) n-Butylbenzene	14.053	91	155207	18.701	ug/l	100
86) Hexachloroethane	14.329	117	29798	19.592	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	92158	20.112	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	12448	20.989	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	41215	19.734	ug/l	98
90) Hexachlorobutadiene	15.494	225	17092	20.317	ug/l	95
91) Naphthalene	15.635	128	148729	19.891	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	41215	19.734	ug/l	98

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

