

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086379.D
 Acq On : 23 Apr 2025 12:37
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Apr 24 04:25:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 03:57:58 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	30419	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	174699	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	164127	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	84076	28.668	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.567%		
60) 4-Bromofluorobenzene	12.847	95	98684	30.592	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.967%		
63) Toluene-d8	10.565	98	268576	29.745	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.133%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	219730	104.629	ug/l	98
3) Chloromethane	2.360	50	306073	102.601	ug/l	97
4) Vinyl Chloride	2.512	62	291612	102.063	ug/l	98
5) Bromomethane	2.948	94	145025	97.222	ug/l	96
6) Chloroethane	3.112	64	188295	98.855	ug/l	96
7) Trichlorofluoromethane	3.501	101	339483	100.661	ug/l	99
8) Diethyl Ether	3.959	74	142350	99.994	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	210493	101.523	ug/l	97
10) 1,1-Dichloroethene	4.342	96	212572	100.169	ug/l	96
11) Methyl Iodide	4.589	142	254830	102.630	ug/l	97
12) Methyl Acetate	5.018	43	303813	101.006	ug/l	99
13) Acrolein	4.177	56	59777	526.461	ug/l	100
14) Acrylonitrile	5.712	53	562850	502.781	ug/l	99
15) Acetone	4.418	58	155944	505.531	ug/l	97
16) Carbon Disulfide	4.706	76	535511	95.765	ug/l	99
17) Allyl chloride	5.018	41	343007	101.086	ug/l	97
18) Methylene Chloride	5.271	84	240773	99.629	ug/l	97
19) trans-1,2-Dichloroethene	5.783	96	225835	99.843	ug/l	95
20) Diisopropyl ether	6.665	45	827730	102.594	ug/l	97
21) 1,1-Dichloroethane	6.565	63	442858	100.277	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	285798	101.049	ug/l	98
23) tert-Butyl Alcohol	5.512	59	203036	468.185	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	786920	100.365	ug/l	99
25) Chloroform	7.959	83	444712	99.497	ug/l	98
26) Cyclohexane	8.253	56	388134	99.536	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	323903	105.170	ug/l	99
30) 2-Butanone	7.477	43	777621	520.201	ug/l	100
31) 2,2-Dichloropropane	7.489	77	407332	102.887	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	378868	102.945	ug/l	99
33) Carbon Tetrachloride	8.359	117	315313	104.076	ug/l	98
34) Benzene	8.600	78	1017889	103.912	ug/l	98
35) Methacrylonitrile	7.777	41	176285	103.381	ug/l	97
36) 1,2-Dichloroethane	8.665	62	330021	103.769	ug/l	99
37) Trichloroethene	9.347	130	256115	104.441	ug/l	94
38) Methylcyclohexane	9.594	83	374627	105.322	ug/l	99
39) 1,2-Dichloropropane	9.618	63	248413	102.652	ug/l	97
40) Dibromomethane	9.706	93	165831	102.469	ug/l	98
41) Bromodichloromethane	9.883	83	356275	104.030	ug/l	100
42) Vinyl Acetate	6.600	43	2634471	508.753	ug/l	100

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43) Ethyl Acetate	7.553	43	296729	100.306	ug/l	98
44) Isopropyl Acetate	8.683	43	563189	100.309	ug/l	99
45) 1,4-Dioxane	9.688	88	89081	2033.531	ug/l	97
46) Methyl methacrylate	9.677	41	266838	103.033	ug/l	99
47) n-amyl Acetate	12.488	43	504826	105.493	ug/l	99
48) t-1,3-Dichloropropene	10.830	75	406922	106.279	ug/l	100
49) cis-1,3-Dichloropropene	10.306	75	426255	105.570	ug/l	100
50) 1,1,2-Trichloroethane	11.012	97	235538	104.198	ug/l	97
51) Ethyl methacrylate	10.871	69	418356	106.266	ug/l	98
52) 1,3-Dichloropropane	11.159	76	415656	104.040	ug/l	100
53) Dibromochloromethane	11.359	129	266681	105.065	ug/l	99
54) 1,2-Dibromoethane	11.465	107	239438	104.177	ug/l	99
55) 2-Chloroethyl vinyl ether	10.153	63	956039	516.516	ug/l	100
56) Bromoform	12.576	173	175855	106.763	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	1605575	505.519	ug/l	100
59) 2-Hexanone	11.194	43	1186815	507.067	ug/l	99
61) Tetrachloroethene	11.100	164	256056	102.288	ug/l	96
62) Toluene	10.624	91	1133294	103.158	ug/l	99
64) Chlorobenzene	11.888	112	706237	103.170	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	236307	103.242	ug/l	99
66) Ethyl Benzene	11.959	91	1290476	104.357	ug/l	100
67) m/p-Xylenes	12.065	106	977944	208.429	ug/l	97
68) o-Xylene	12.394	106	479032	104.273	ug/l	98
69) Styrene	12.406	104	833303	107.015	ug/l	99
70) Isopropylbenzene	12.694	105	1206389	105.197	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	302296	100.113	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	265966m	101.648	ug/l	
73) Bromobenzene	12.976	156	273523	103.746	ug/l	98
74) n-propylbenzene	13.029	91	1448668	106.306	ug/l	100
75) 2-Chlorotoluene	13.124	91	881066	103.571	ug/l	100
76) 1,3,5-Trimethylbenzene	13.171	105	989559	105.165	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	143204	107.186	ug/l	95
78) 4-Chlorotoluene	13.218	91	902138	106.061	ug/l	100
79) tert-butylbenzene	13.435	119	838738	104.079	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	1000736	104.137	ug/l	97
81) sec-Butylbenzene	13.612	105	1210897	105.264	ug/l	99
82) p-Isopropyltoluene	13.723	119	1030447	107.051	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	525798	105.501	ug/l	98
84) 1,4-Dichlorobenzene	13.806	146	520155	105.635	ug/l	99
85) n-Butylbenzene	14.053	91	933101	108.639	ug/l	99
86) Hexachloroethane	14.329	117	169652	107.787	ug/l	98
87) 1,2-Dichlorobenzene	14.100	146	495563	104.502	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.718	75	63382	103.269	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	235238	108.839	ug/l	98
90) Hexachlorobutadiene	15.500	225	91753	105.391	ug/l	99
91) Naphthalene	15.635	128	843461	109.005	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	235238	108.839	ug/l	98

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

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