

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086244.D
 Acq On : 11 Apr 2025 11:52
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Apr 12 00:19:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

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

Internal Standards						
1) Bromochloromethane	7.812	128	34719	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	212849	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	191848	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	101225	29.892	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.633%		
60) 4-Bromofluorobenzene	12.847	95	116379	30.469	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.567%		
63) Toluene-d8	10.565	98	321243	29.660	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.867%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	159577	57.365	ug/l	99
3) Chloromethane	2.359	50	209307	54.440	ug/l	98
4) Vinyl Chloride	2.512	62	204553	55.856	ug/l	98
5) Bromomethane	2.953	94	94764	51.877	ug/l	93
6) Chloroethane	3.118	64	126545	54.720	ug/l	98
7) Trichlorofluoromethane	3.495	101	224704	56.563	ug/l	99
8) Diethyl Ether	3.959	74	100444	54.826	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	137760	56.236	ug/l	97
10) 1,1-Dichloroethene	4.342	96	142552	53.920	ug/l	95
11) Methyl Iodide	4.583	142	172223	56.678	ug/l	98
12) Methyl Acetate	5.024	43	216174	57.904	ug/l	98
13) Acrolein	4.177	56	95048	223.977	ug/l	99
14) Acrylonitrile	5.712	53	435610	276.391	ug/l	98
15) Acetone	4.424	58	112588	281.504	ug/l	93
16) Carbon Disulfide	4.712	76	388287	51.220	ug/l	99
17) Allyl chloride	5.018	41	250898	54.451	ug/l	99
18) Methylene Chloride	5.277	84	160052	53.099	ug/l	97
19) trans-1,2-Dichloroethene	5.789	96	147953	62.042	ug/l	98
20) Diisopropyl ether	6.671	45	559920	56.516	ug/l	97
21) 1,1-Dichloroethane	6.571	63	294059	55.639	ug/l	98
22) cis-1,2-Dichloroethene	7.482	96	179457	54.098	ug/l	97
23) tert-Butyl Alcohol	5.512	59	185093	283.431	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	526838	55.313	ug/l	98
25) Chloroform	7.965	83	279630	55.484	ug/l	96
26) Cyclohexane	8.253	56	278241	56.272	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	210025	55.081	ug/l	99
30) 2-Butanone	7.477	43	596520	282.334	ug/l	99
31) 2,2-Dichloropropane	7.488	77	260037	55.404	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	240887	54.920	ug/l	99
33) Carbon Tetrachloride	8.359	117	199323	56.865	ug/l	97
34) Benzene	8.606	78	666877	54.974	ug/l	98
35) Methacrylonitrile	7.777	41	129688	54.448	ug/l	99
36) 1,2-Dichloroethane	8.665	62	209738	55.252	ug/l	97
37) Trichloroethene	9.347	130	164224	56.109	ug/l	90
38) Methylcyclohexane	9.600	83	253415	54.191	ug/l	99
39) 1,2-Dichloropropane	9.618	63	168378	55.783	ug/l	98
40) Dibromomethane	9.706	93	106697	54.730	ug/l	99
41) Bromodichloromethane	9.888	83	225600	53.865	ug/l	97
42) Vinyl Acetate	6.600	43	1937093	269.341	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	233433	54.775	ug/l	98
44) Isopropyl Acetate	8.682	43	419280	53.034	ug/l	99
45) 1,4-Dioxane	9.688	88	71351	1134.960	ug/l #	95
46) Methyl methacrylate	9.676	41	197782	56.778	ug/l	99
47) n-amyl Acetate	12.488	43	354004	55.417	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	264279	55.817	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	277506	55.377	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	149001	54.493	ug/l	98
51) Ethyl methacrylate	10.871	69	283112	55.717	ug/l	96
52) 1,3-Dichloropropane	11.159	76	271010	55.609	ug/l	100
53) Dibromochloromethane	11.359	129	166341	55.616	ug/l	99
54) 1,2-Dibromoethane	11.465	107	152197	55.141	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	685916	357.238	ug/l	99
56) Bromoform	12.576	173	110623	56.534	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	1212140	278.421	ug/l	99
59) 2-Hexanone	11.194	43	912206	281.386	ug/l	99
61) Tetrachloroethene	11.100	164	160227	56.555	ug/l	98
62) Toluene	10.629	91	709533	55.140	ug/l	100
64) Chlorobenzene	11.888	112	434051	55.211	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	145468	56.068	ug/l	99
66) Ethyl Benzene	11.959	91	797966	55.917	ug/l	97
67) m/p-Xylenes	12.070	106	600484	113.164	ug/l	100
68) o-Xylene	12.394	106	294512	56.428	ug/l	99
69) Styrene	12.406	104	499886	56.790	ug/l	99
70) Isopropylbenzene	12.694	105	727241	56.511	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	194327	53.052	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	211703m	40.824	ug/l	
73) Bromobenzene	12.976	156	161325	56.588	ug/l	99
74) n-propylbenzene	13.035	91	865912	56.817	ug/l	100
75) 2-Chlorotoluene	13.123	91	539350	56.468	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	596201	56.398	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	100158	56.970	ug/l	92
78) 4-Chlorotoluene	13.217	91	541691	56.787	ug/l	100
79) tert-butylbenzene	13.435	119	506518	55.374	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	611389	57.035	ug/l	99
81) sec-Butylbenzene	13.612	105	714247	55.977	ug/l	99
82) p-Isopropyltoluene	13.723	119	604494	56.791	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	306241	57.795	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	303615	57.117	ug/l	100
85) n-Butylbenzene	14.053	91	536941	55.917	ug/l	99
86) Hexachloroethane	14.329	117	102084	56.854	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	301390	57.607	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	47464	56.890	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	140271	55.103	ug/l	98
90) Hexachlorobutadiene	15.500	225	56236	51.165	ug/l	99
91) Naphthalene	15.635	128	561578	55.953	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	140271	55.103	ug/l	98

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

Manual Integrations

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