

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042125\
 Data File : VN086355.D
 Acq On : 21 Apr 2025 12:14
 Operator : JC\MD
 Sample : VN0421WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0421WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/22/2025
 Supervised By : Mahesh Dadoda 04/22/2025

Quant Time: Apr 22 01:48:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	31313	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	185960	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	168847	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	90777	29.722	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.067%		
60) 4-Bromofluorobenzene	12.847	95	96854	28.811	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.033%		
63) Toluene-d8	10.565	98	279016	29.270	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.567%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	49855	19.871	ug/l	99
3) Chloromethane	2.359	50	66096	19.061	ug/l	99
4) Vinyl Chloride	2.512	62	63685	19.282	ug/l	99
5) Bromomethane	2.959	94	33759	20.491	ug/l	100
6) Chloroethane	3.118	64	41562	19.927	ug/l	97
7) Trichlorofluoromethane	3.495	101	72520	20.241	ug/l	98
8) Diethyl Ether	3.959	74	29836	18.057	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.365	101	44297	20.050	ug/l	97
10) 1,1-Dichloroethene	4.342	96	44655	18.728	ug/l	97
11) Methyl Iodide	4.589	142	52790	19.263	ug/l	95
12) Methyl Acetate	5.024	43	66980	19.893	ug/l	96
13) Acrolein	4.177	56	28437	74.300	ug/l	96
14) Acrylonitrile	5.712	53	124281	87.432	ug/l	98
15) Acetone	4.430	58	37196	103.203	ug/l	84
16) Carbon Disulfide	4.712	76	124787	18.251	ug/l	97
17) Allyl chloride	5.018	41	73113	17.593	ug/l	93
18) Methylene Chloride	5.277	84	51164	18.821	ug/l	91
19) trans-1,2-Dichloroethene	5.783	96	48013	19.117	ug/l	96
20) Diisopropyl ether	6.665	45	168098	18.815	ug/l	98
21) 1,1-Dichloroethane	6.565	63	91477	19.191	ug/l	99
22) cis-1,2-Dichloroethene	7.489	96	58096	19.418	ug/l	99
23) tert-Butyl Alcohol	5.518	59	51575	87.567	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	166096	19.303	ug/l	98
25) Chloroform	7.965	83	91529	20.137	ug/l	99
26) Cyclohexane	8.253	56	81084	18.182	ug/l #	96
29) 1,1-Dichloropropene	8.365	75	65975	19.805	ug/l	99
30) 2-Butanone	7.477	43	176629	95.687	ug/l	97
31) 2,2-Dichloropropane	7.483	77	84194	20.532	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	78840	20.574	ug/l	100
33) Carbon Tetrachloride	8.359	117	64337	21.009	ug/l	99
34) Benzene	8.600	78	212510	20.052	ug/l #	95
35) Methacrylonitrile	7.777	41	37378	17.962	ug/l	95
36) 1,2-Dichloroethane	8.671	62	68911	20.778	ug/l	96
37) Trichloroethene	9.347	130	51250	20.042	ug/l	93
38) Methylcyclohexane	9.594	83	79284	19.406	ug/l	99
39) 1,2-Dichloropropane	9.618	63	52478	19.900	ug/l	97
40) Dibromomethane	9.706	93	35101	20.608	ug/l	98
41) Bromodichloromethane	9.888	83	74411	20.336	ug/l	100
42) Vinyl Acetate	6.600	43	600622	95.588	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	69759	18.736	ug/l	97
44) Isopropyl Acetate	8.688	43	131708	19.068	ug/l	100
45) 1,4-Dioxane	9.688	88	21757	396.124	ug/l #	89
46) Methyl methacrylate	9.677	41	57659	18.946	ug/l	96
47) n-amyl Acetate	12.488	43	108401	19.794	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	82393	19.918	ug/l	97
49) cis-1,3-Dichloropropene	10.306	75	87029	19.878	ug/l	94
50) 1,1,2-Trichloroethane	11.012	97	47736	19.982	ug/l	97
51) Ethyl methacrylate	10.871	69	86320	19.444	ug/l	98
52) 1,3-Dichloropropane	11.159	76	86649	20.351	ug/l	100
53) Dibromochloromethane	11.359	129	53596	20.511	ug/l	98
54) 1,2-Dibromoethane	11.465	107	50112	20.781	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	200029	119.243	ug/l	99
56) Bromoform	12.576	173	35128	20.548	ug/l	97
58) 4-Methyl-2-Pentanone	10.441	43	360222	94.012	ug/l	99
59) 2-Hexanone	11.194	43	268548	94.123	ug/l	100
61) Tetrachloroethene	11.100	164	49394	19.809	ug/l	98
62) Toluene	10.630	91	232489	20.529	ug/l	99
64) Chlorobenzene	11.888	112	142213	20.554	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	47546	20.822	ug/l	99
66) Ethyl Benzene	11.959	91	253935	20.218	ug/l	96
67) m/p-Xylenes	12.071	106	192975	41.321	ug/l	98
68) o-Xylene	12.394	106	94630	20.601	ug/l	99
69) Styrene	12.406	104	157888	20.381	ug/l	98
70) Isopropylbenzene	12.694	105	236174	20.852	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	67733	21.010	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	66728m	19.885	ug/l	
73) Bromobenzene	12.976	156	54268	21.629	ug/l	93
74) n-propylbenzene	13.035	91	278479	20.823	ug/l	100
75) 2-Chlorotoluene	13.123	91	173900	20.687	ug/l	100
76) 1,3,5-Trimethylbenzene	13.171	105	194170	20.870	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	28469	18.399	ug/l	93
78) 4-Chlorotoluene	13.218	91	172758	20.578	ug/l	100
79) tert-butylbenzene	13.435	119	167443	20.799	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	195810	20.755	ug/l	98
81) sec-Butylbenzene	13.612	105	240066	21.377	ug/l	99
82) p-Isopropyltoluene	13.723	119	199781	21.326	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	100646	21.582	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	99747	21.321	ug/l	99
85) n-Butylbenzene	14.053	91	178040	21.067	ug/l	99
86) Hexachloroethane	14.329	117	32160	20.351	ug/l	98
87) 1,2-Dichlorobenzene	14.100	146	98093	21.303	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	14836	20.205	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	46122	20.586	ug/l	99
90) Hexachlorobutadiene	15.494	225	20154	20.835	ug/l	99
91) Naphthalene	15.635	128	165143	18.695	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	46122	20.586	ug/l	99

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

