

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042425\
 Data File : VN086392.D
 Acq On : 24 Apr 2025 11:10
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

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

Quant Time: Apr 25 01:37:35 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

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

Internal Standards						
1) Bromochloromethane	7.812	128	26272	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	160898	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	146433	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	77952	30.775	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.600%			
60) 4-Bromofluorobenzene	12.847	95	83781	29.111	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.033%			
63) Toluene-d8	10.565	98	241338	29.958	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.867%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	35620	19.638	ug/l	98
3) Chloromethane	2.359	50	48754	18.923	ug/l	95
4) Vinyl Chloride	2.518	62	48594	19.692	ug/l	98
5) Bromomethane	2.965	94	25436	19.743	ug/l	97
6) Chloroethane	3.124	64	32550	19.786	ug/l	99
7) Trichlorofluoromethane	3.506	101	57190	19.634	ug/l	97
8) Diethyl Ether	3.953	74	23715	19.288	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	36219	20.226	ug/l	96
10) 1,1-Dichloroethene	4.348	96	36037	19.662	ug/l	93
11) Methyl Iodide	4.595	142	40883	19.064	ug/l	98
12) Methyl Acetate	5.018	43	54759	21.079	ug/l	97
13) Acrolein	4.171	56	13246	106.492	ug/l	99
14) Acrylonitrile	5.712	53	99406	102.814	ug/l	98
15) Acetone	4.418	58	25020	93.911	ug/l	90
16) Carbon Disulfide	4.712	76	92170	19.085	ug/l	98
17) Allyl chloride	5.018	41	54628	18.640	ug/l	92
18) Methylene Chloride	5.277	84	42200	20.218	ug/l	97
19) trans-1,2-Dichloroethene	5.789	96	38093	19.500	ug/l	97
20) Diisopropyl ether	6.665	45	137854	19.783	ug/l	95
21) 1,1-Dichloroethane	6.565	63	76187	19.974	ug/l	99
22) cis-1,2-Dichloroethene	7.483	96	49135	20.115	ug/l	97
23) tert-Butyl Alcohol	5.512	59	39846	106.385	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	137656	20.328	ug/l	100
25) Chloroform	7.965	83	77751	20.141	ug/l	95
26) Cyclohexane	8.253	56	64712	19.215	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	55043	19.405	ug/l	99
30) 2-Butanone	7.477	43	134449	97.656	ug/l	100
31) 2,2-Dichloropropane	7.483	77	68224	18.711	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	67210	19.829	ug/l	99
33) Carbon Tetrachloride	8.359	117	53439	19.152	ug/l	98
34) Benzene	8.606	78	177700	19.697	ug/l	95
35) Methacrylonitrile	7.771	41	29921	19.052	ug/l	99
36) 1,2-Dichloroethane	8.665	62	57245	19.544	ug/l	100
37) Trichloroethene	9.347	130	43439	19.233	ug/l	90
38) Methylcyclohexane	9.600	83	62749	19.154	ug/l	99
39) 1,2-Dichloropropane	9.618	63	43328	19.440	ug/l	94
40) Dibromomethane	9.706	93	29031	19.477	ug/l	97
41) Bromodichloromethane	9.882	83	62252	19.736	ug/l	97
42) Vinyl Acetate	6.600	43	459520	96.351	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	52191m	19.156	ug/l	
44) Isopropyl Acetate	8.683	43	102912	19.902	ug/l	99
45) 1,4-Dioxane	9.694	88	17079	423.319	ug/l	96
46) Methyl methacrylate	9.677	41	46043	19.303	ug/l	98
47) n-amyl Acetate	12.488	43	79730	18.090	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	66456	18.846	ug/l	97
49) cis-1,3-Dichloropropene	10.306	75	71483	19.223	ug/l	96
50) 1,1,2-Trichloroethane	11.012	97	41506	19.936	ug/l	98
51) Ethyl methacrylate	10.871	69	69215	19.089	ug/l	98
52) 1,3-Dichloropropane	11.159	76	72729	19.766	ug/l	100
53) Dibromochloromethane	11.359	129	46144	19.739	ug/l	98
54) 1,2-Dibromoethane	11.465	107	40943	19.342	ug/l	100
55) 2-Chloroethyl vinyl ether	10.153	63	148028	86.834	ug/l	100
56) Bromoform	12.576	173	29068	19.161	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	285476	100.744	ug/l	100
59) 2-Hexanone	11.194	43	207600	99.415	ug/l	99
61) Tetrachloroethene	11.100	164	43047	19.274	ug/l	97
62) Toluene	10.629	91	193566	19.748	ug/l	99
64) Chlorobenzene	11.888	112	121722	19.930	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	41714	20.427	ug/l	98
66) Ethyl Benzene	11.959	91	216192	19.595	ug/l	100
67) m/p-Xylenes	12.071	106	163177	38.980	ug/l	99
68) o-Xylene	12.394	106	79183	19.319	ug/l	100
69) Styrene	12.406	104	133796	19.259	ug/l	99
70) Isopropylbenzene	12.694	105	201076	19.652	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	56212	20.865	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	47412m	20.186	ug/l	
73) Bromobenzene	12.976	156	46626	19.822	ug/l	98
74) n-propylbenzene	13.029	91	235314	19.354	ug/l	99
75) 2-Chlorotoluene	13.123	91	147150	19.388	ug/l	98
76) 1,3,5-Trimethylbenzene	13.170	105	165894	19.761	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	21990	18.448	ug/l	95
78) 4-Chlorotoluene	13.218	91	144829	19.084	ug/l	100
79) tert-butylbenzene	13.435	119	139436	19.393	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	164132	19.143	ug/l	98
81) sec-Butylbenzene	13.612	105	197215	19.216	ug/l	99
82) p-Isopropyltoluene	13.723	119	161092	18.758	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	84482	18.999	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	83831	19.082	ug/l	99
85) n-Butylbenzene	14.053	91	139988	18.268	ug/l	99
86) Hexachloroethane	14.329	117	26434	18.824	ug/l	98
87) 1,2-Dichlorobenzene	14.100	146	83740	19.792	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	10296	18.802	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	36439	18.897	ug/l	100
90) Hexachlorobutadiene	15.500	225	14193	18.273	ug/l	98
91) Naphthalene	15.635	128	127348	18.447	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	36439	18.897	ug/l	100

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

