

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072825\
 Data File : VN087421.D
 Acq On : 28 Jul 2025 10:27
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Jul 28 11:29:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jul 28 11:25:23 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/28/2025
 Supervised By : Mahesh Dadoda 07/29/2025

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

Internal Standards						
1) Bromochloromethane	7.800	128	104056	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	582372	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	518227	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	234251	27.296	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	91.000%		
60) 4-Bromofluorobenzene	12.829	95	251797	29.123	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.067%		
63) Toluene-d8	10.547	98	713184	30.261	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.867%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	245888	38.620	ug/l	92
3) Chloromethane	2.383	50	259384	41.016	ug/l	97
4) Vinyl Chloride	2.542	62	262437	37.653	ug/l	95
5) Bromomethane	2.983	94	130747	30.315	ug/l	92
6) Chloroethane	3.136	64	150376m	28.073	ug/l	
7) Trichlorofluoromethane	3.512	101	340827	28.754	ug/l	94
8) Diethyl Ether	3.965	74	137366	29.113	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	181873	28.953	ug/l #	72
10) 1,1-Dichloroethene	4.336	96	184843	28.343	ug/l	92
11) Methyl Iodide	4.583	142	169435	35.615	ug/l	83
12) Methyl Acetate	5.018	43	397450	46.854	ug/l	100
13) Acrolein	4.177	56	136233	88.340	ug/l	95
14) Acrylonitrile	5.706	53	845001	218.128	ug/l	97
15) Acetone	4.424	58	188498	137.822	ug/l	98
16) Carbon Disulfide	4.700	76	649186	38.545	ug/l	98
17) Allyl chloride	5.012	41	422244	47.263	ug/l	86
18) Methylene Chloride	5.265	84	271116	41.076	ug/l #	86
19) trans-1,2-Dichloroethene	5.777	96	249424	38.945	ug/l	90
20) Diisopropyl ether	6.659	45	978423	43.310	ug/l	96
21) 1,1-Dichloroethane	6.553	63	490965	40.689	ug/l	94
22) cis-1,2-Dichloroethene	7.471	96	314681	41.947	ug/l	98
23) tert-Butyl Alcohol	5.524	59	329582	248.240	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	913143	43.327	ug/l	99
25) Chloroform	7.953	83	500601	37.880	ug/l	97
26) Cyclohexane	8.241	56	449110	49.926	ug/l #	93
29) 1,1-Dichloropropene	8.353	75	339352	34.154	ug/l	97
30) 2-Butanone	7.471	43	1232374	182.123	ug/l	99
31) 2,2-Dichloropropane	7.471	77	420772	32.246	ug/l	95
32) 1,1,1-Trichloroethane	8.153	97	412028	31.684	ug/l	99
33) Carbon Tetrachloride	8.347	117	343165	30.376	ug/l	95
34) Benzene	8.588	78	1114078	34.717	ug/l	95
35) Methacrylonitrile	7.765	41	277074	38.938	ug/l	94
36) 1,2-Dichloroethane	8.653	62	364910	28.825	ug/l	97
37) Trichloroethene	9.335	130	254332	34.729	ug/l	99
38) Methylcyclohexane	9.583	83	442244	42.104	ug/l	96
39) 1,2-Dichloropropane	9.606	63	286553	35.545	ug/l	96
40) Dibromomethane	9.694	93	199678	32.014	ug/l	99
41) Bromodichloromethane	9.871	83	406835	32.851	ug/l	92
42) Vinyl Acetate	6.594	43	4078744	177.937	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	529612m	38.446	ug/l	
44) Isopropyl Acetate	8.677	43	818584	37.640	ug/l	99
45) 1,4-Dioxane	9.683	88	99119	739.755	ug/l #	54
46) Methyl methacrylate	9.665	41	387675	38.710	ug/l	96
47) n-amyl Acetate	12.500	43	391335	30.027	ug/l #	69
48) t-1,3-Dichloropropene	10.818	75	459614	34.790	ug/l	97
49) cis-1,3-Dichloropropene	10.294	75	487320	36.883	ug/l	93
50) 1,1,2-Trichloroethane	10.994	97	268781	33.367	ug/l	95
51) Ethyl methacrylate	10.859	69	493799	40.086	ug/l	97
52) 1,3-Dichloropropane	11.147	76	475675	34.345	ug/l	98
53) Dibromochloromethane	11.341	129	312618	33.112	ug/l	99
54) 1,2-Dibromoethane	11.447	107	284615	34.470	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	1001321	146.121	ug/l	98
56) Bromoform	12.559	173	218091	32.479	ug/l	100
58) 4-Methyl-2-Pentanone	10.430	43	2465965	194.599	ug/l	99
59) 2-Hexanone	11.177	43	1735360	202.889	ug/l	97
61) Tetrachloroethene	11.082	164	205829	35.567	ug/l	93
62) Toluene	10.612	91	1225674	38.836	ug/l	97
64) Chlorobenzene	11.871	112	746442	36.994	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.941	131	256968	34.849	ug/l	97
66) Ethyl Benzene	11.941	91	1348264	39.459	ug/l	97
67) m/p-Xylenes	12.053	106	1020622	75.480	ug/l	99
68) o-Xylene	12.376	106	492694	37.985	ug/l	96
69) Styrene	12.394	104	846783	37.523	ug/l	99
70) Isopropylbenzene	12.676	105	1256635	38.467	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.918	83	422439	36.760	ug/l	95
72) 1,2,3-Trichloropropane	12.976	75	393969m	38.374	ug/l	
73) Bromobenzene	12.959	156	295472	34.750	ug/l	93
74) n-propylbenzene	13.012	91	1570377	38.067	ug/l	99
75) 2-Chlorotoluene	13.106	91	924823	37.326	ug/l	98
76) 1,3,5-Trimethylbenzene	13.153	105	1053588	37.079	ug/l	99
77) t-1,4-Dichloro-2-butene	12.718	75	166291	40.530	ug/l	92
78) 4-Chlorotoluene	13.200	91	948477	35.893	ug/l	98
79) tert-butylbenzene	13.418	119	917803	38.032	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	1052781	36.294	ug/l	95
81) sec-Butylbenzene	13.594	105	1360199	39.056	ug/l	99
82) p-Isopropyltoluene	13.706	119	1108608	37.088	ug/l	97
83) 1,3-Dichlorobenzene	13.712	146	570197	33.283	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	579128	34.247	ug/l	98
85) n-Butylbenzene	14.035	91	1108525	40.267	ug/l	97
86) Hexachloroethane	14.312	117	222124	38.187	ug/l	95
87) 1,2-Dichlorobenzene	14.082	146	554554	34.380	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	93256	34.878	ug/l	98
89) 1,2,4-Trichlorobenzene	15.812	180	323791	34.797	ug/l	97
90) Hexachlorobutadiene	15.476	225	124521	32.444	ug/l	99
91) Naphthalene	15.617	128	1229606	39.703	ug/l	99
92) 1,2,3-Trichlorobenzene	15.812	180	323791	34.797	ug/l	97

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

