

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072825\
 Data File : VN087420.D
 Acq On : 28 Jul 2025 10:06
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

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

Quant Time: Jul 28 11:27:53 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

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

Internal Standards						
1) Bromochloromethane	7.800	128	104668	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	586753	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	490436	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	237825	27.551	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	91.833%		
60) 4-Bromofluorobenzene	12.829	95	241964	29.572	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.567%		
63) Toluene-d8	10.547	98	677131	30.360	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.200%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.148	85	126885	19.812	ug/l	87
3) Chloromethane	2.383	50	130749	20.554	ug/l	97
4) Vinyl Chloride	2.542	62	131642	18.777	ug/l	94
5) Bromomethane	2.983	94	62595	14.428	ug/l	88
6) Chloroethane	3.142	64	75489m	14.011	ug/l	
7) Trichlorofluoromethane	3.512	101	161939	13.582	ug/l	94
8) Diethyl Ether	3.965	74	70440	14.842	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.365	101	89459	14.158	ug/l #	70
10) 1,1-Dichloroethene	4.336	96	91154	13.895	ug/l	91
11) Methyl Iodide	4.577	142	62220	13.002	ug/l	83
12) Methyl Acetate	5.024	43	193158	22.638	ug/l	96
13) Acrolein	4.183	56	62956	40.585	ug/l	97
14) Acrylonitrile	5.712	53	427024	109.587	ug/l	98
15) Acetone	4.430	58	103271	75.066	ug/l	80
16) Carbon Disulfide	4.706	76	313125	18.483	ug/l	100
17) Allyl chloride	5.012	41	210346	23.407	ug/l	87
18) Methylene Chloride	5.259	84	135417m	20.397	ug/l	
19) trans-1,2-Dichloroethene	5.771	96	123838	19.223	ug/l	93
20) Diisopropyl ether	6.659	45	485852	21.380	ug/l	94
21) 1,1-Dichloroethane	6.559	63	241230	19.875	ug/l	95
22) cis-1,2-Dichloroethene	7.471	96	154680	20.498	ug/l	98
23) tert-Butyl Alcohol	5.524	59	164521	123.192	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	441292	20.816	ug/l	99
25) Chloroform	7.953	83	240943	18.125	ug/l	94
26) Cyclohexane	8.241	56	218606	24.160	ug/l #	95
29) 1,1-Dichloropropene	8.353	75	168718	16.854	ug/l	98
30) 2-Butanone	7.471	43	609764	89.439	ug/l	99
31) 2,2-Dichloropropane	7.477	77	212234	16.143	ug/l	95
32) 1,1,1-Trichloroethane	8.153	97	200721	15.320	ug/l	99
33) Carbon Tetrachloride	8.347	117	167018	14.674	ug/l	97
34) Benzene	8.588	78	552319	17.083	ug/l	96
35) Methacrylonitrile	7.765	41	137977	19.245	ug/l	91
36) 1,2-Dichloroethane	8.659	62	181866m	14.259	ug/l	
37) Trichloroethene	9.335	130	124348	16.853	ug/l	93
38) Methylcyclohexane	9.582	83	210652	19.906	ug/l	96
39) 1,2-Dichloropropane	9.606	63	135182	16.643	ug/l	94
40) Dibromomethane	9.688	93	94554	15.046	ug/l	98
41) Bromodichloromethane	9.871	83	190135	15.239	ug/l	87
42) Vinyl Acetate	6.588	43	2011260	87.087	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	265642m	19.139	ug/l	
44) Isopropyl Acetate	8.677	43	394930	18.024	ug/l	100
45) 1,4-Dioxane	9.682	88	53161	393.794	ug/l #	58
46) Methyl methacrylate	9.665	41	176163	17.459	ug/l	96
47) n-amyl Acetate	12.518	43	97455	7.422	ug/l #	66
48) t-1,3-Dichloropropene	10.818	75	209390	15.731	ug/l	96
49) cis-1,3-Dichloropropene	10.294	75	220552	16.568	ug/l	98
50) 1,1,2-Trichloroethane	11.000	97	123760	15.249	ug/l	94
51) Ethyl methacrylate	10.859	69	223041	17.971	ug/l	98
52) 1,3-Dichloropropane	11.147	76	209626	15.022	ug/l	100
53) Dibromochloromethane	11.341	129	139794	14.696	ug/l	98
54) 1,2-Dibromoethane	11.447	107	127613	15.340	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	501216	72.595	ug/l	98
56) Bromoform	12.559	173	98259	14.524	ug/l	100
58) 4-Methyl-2-Pentanone	10.429	43	1149475	95.850	ug/l	99
59) 2-Hexanone	11.182	43	770544	95.193	ug/l	97
61) Tetrachloroethene	11.082	164	92302	16.853	ug/l #	89
62) Toluene	10.612	91	551064	18.450	ug/l	97
64) Chlorobenzene	11.871	112	339856	17.798	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.941	131	119776	17.164	ug/l	95
66) Ethyl Benzene	11.941	91	616868	19.077	ug/l	95
67) m/p-Xylenes	12.053	106	460356	35.975	ug/l	98
68) o-Xylene	12.376	106	230015	18.738	ug/l	100
69) Styrene	12.394	104	388194	18.176	ug/l	100
70) Isopropylbenzene	12.676	105	583004	18.858	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.917	83	198171	18.222	ug/l	95
72) 1,2,3-Trichloropropane	12.976	75	195964m	20.169	ug/l	
73) Bromobenzene	12.959	156	130858	16.262	ug/l	91
74) n-propylbenzene	13.012	91	718289	18.398	ug/l	99
75) 2-Chlorotoluene	13.106	91	424649	18.110	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	483204	17.969	ug/l	100
77) t-1,4-Dichloro-2-butene	12.717	75	73038	18.810	ug/l	94
78) 4-Chlorotoluene	13.200	91	440861	17.629	ug/l	97
79) tert-butylbenzene	13.417	119	418588	18.329	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	485562	17.688	ug/l	96
81) sec-Butylbenzene	13.594	105	623158	18.907	ug/l	99
82) p-Isopropyltoluene	13.706	119	515943	18.239	ug/l	96
83) 1,3-Dichlorobenzene	13.712	146	259135	15.983	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	271082	16.939	ug/l	98
85) n-Butylbenzene	14.035	91	502453	19.286	ug/l	98
86) Hexachloroethane	14.312	117	102213	18.568	ug/l	96
87) 1,2-Dichlorobenzene	14.082	146	247872	16.238	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.700	75	44493	17.584	ug/l	96
89) 1,2,4-Trichlorobenzene	15.811	180	149474	16.974	ug/l	98
90) Hexachlorobutadiene	15.476	225	56252	15.487	ug/l	99
91) Naphthalene	15.611	128	562350	19.187	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	149474	16.974	ug/l	98

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

