

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062525\
 Data File : VN087164.D
 Acq On : 25 Jun 2025 09:41
 Operator : JC\MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/25/2025
 Supervised By : Mahesh Dadoda 06/26/2025

Quant Time: Jun 25 10:41:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:38:24 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	36297	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	191792	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	183711	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	80238	32.174	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 107.233%			
60) 4-Bromofluorobenzene	12.847	95	86398	29.954	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.833%			
63) Toluene-d8	10.565	98	241406	28.629	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 95.433%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	105036	42.607	ug/l	97
3) Chloromethane	2.395	50	108859	34.249	ug/l	98
4) Vinyl Chloride	2.554	62	116298	39.759	ug/l	95
5) Bromomethane	2.995	94	59883	38.638	ug/l	94
6) Chloroethane	3.154	64	62900	35.158	ug/l	97
7) Trichlorofluoromethane	3.530	101	144121	42.068	ug/l	99
8) Diethyl Ether	3.983	74	70868	49.590	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.401	101	108149	51.509	ug/l #	88
10) 1,1-Dichloroethene	4.365	96	107618	50.276	ug/l	95
11) Methyl Iodide	4.612	142	104934	41.585	ug/l	91
12) Methyl Acetate	5.042	43	172834	72.704	ug/l	97
13) Acrolein	4.201	56	122967	500.718	ug/l	100
14) Acrylonitrile	5.736	53	406413	367.380	ug/l	98
15) Acetone	4.448	58	116774	416.908	ug/l	94
16) Carbon Disulfide	4.742	76	310088	49.627	ug/l	100
17) Allyl chloride	5.048	41	180781	56.849	ug/l	97
18) Methylene Chloride	5.300	84	124740	50.180	ug/l	98
19) trans-1,2-Dichloroethene	5.812	96	118244	52.785	ug/l	94
20) Diisopropyl ether	6.689	45	395621	56.488	ug/l	95
21) 1,1-Dichloroethane	6.583	63	225376	53.322	ug/l	99
22) cis-1,2-Dichloroethene	7.500	96	143629	52.945	ug/l	97
23) tert-Butyl Alcohol	5.536	59	152814	430.162	ug/l #	100
24) Methyl tert-Butyl Ether	5.812	73	385760	54.681	ug/l	98
25) Chloroform	7.971	83	221377	53.512	ug/l	98
26) Cyclohexane	8.265	56	193421	52.874	ug/l #	98
29) 1,1-Dichloropropene	8.377	75	160517	56.923	ug/l	98
30) 2-Butanone	7.489	43	546757	442.524	ug/l	99
31) 2,2-Dichloropropane	7.500	77	190958	57.368	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	185977	56.894	ug/l	99
33) Carbon Tetrachloride	8.371	117	153386	54.893	ug/l	97
34) Benzene	8.612	78	503072	54.830	ug/l	98
35) Methacrylonitrile	7.789	41	109229	76.961	ug/l	95
36) 1,2-Dichloroethane	8.677	62	161947	60.234	ug/l	97
37) Trichloroethene	9.359	130	112377	44.156	ug/l	89
38) Methylcyclohexane	9.606	83	170475	54.486	ug/l	98
39) 1,2-Dichloropropane	9.624	63	117960	53.402	ug/l	96
40) Dibromomethane	9.712	93	82459	57.075	ug/l	99
41) Bromodichloromethane	9.888	83	167016	55.227	ug/l	99
42) Vinyl Acetate	6.618	43	1770137	491.503	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062525\
 Data File : VN087164.D
 Acq On : 25 Jun 2025 09:41
 Operator : JC\MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/25/2025
 Supervised By : Mahesh Dadoda 06/26/2025

Quant Time: Jun 25 10:41:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:38:24 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	209283	82.779	ug/l	98
44) Isopropyl Acetate	8.694	43	318572	73.455	ug/l	97
45) 1,4-Dioxane	9.700	88	42097	1092.072	ug/l	90
46) Methyl methacrylate	9.683	41	142798	71.407	ug/l	95
47) n-amyl Acetate	12.518	43	180529	51.850	ug/l #	100
48) t-1,3-Dichloropropene	10.835	75	196045	60.579	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	193737	54.427	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	120146	59.045	ug/l	98
51) Ethyl methacrylate	10.882	69	196419	59.603	ug/l	98
52) 1,3-Dichloropropane	11.165	76	208157	57.643	ug/l	98
53) Dibromochloromethane	11.359	129	128273	55.785	ug/l	98
54) 1,2-Dibromoethane	11.471	107	122070	58.689	ug/l	97
55) 2-Chloroethyl vinyl ether	10.159	63	502611	317.734	ug/l	100
56) Bromoform	12.576	173	86503	59.706	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	987570	366.357	ug/l	100
59) 2-Hexanone	11.200	43	673308	348.700	ug/l	97
61) Tetrachloroethene	11.106	164	92124	29.832	ug/l	96
62) Toluene	10.630	91	526581	50.894	ug/l	99
64) Chlorobenzene	11.894	112	338627	51.320	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	111613	51.489	ug/l	98
66) Ethyl Benzene	11.965	91	589779	52.700	ug/l	99
67) m/p-Xylenes	12.071	106	454250	103.437	ug/l	99
68) o-Xylene	12.400	106	217114	51.013	ug/l	99
69) Styrene	12.412	104	379767	53.558	ug/l	99
70) Isopropylbenzene	12.694	105	547639	54.100	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	194527	80.826	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	161650m	57.309	ug/l	
73) Bromobenzene	12.982	156	130892	52.023	ug/l	98
74) n-propylbenzene	13.035	91	680365	56.743	ug/l	99
75) 2-Chlorotoluene	13.123	91	403198	52.390	ug/l	98
76) 1,3,5-Trimethylbenzene	13.171	105	458902	54.494	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	75763	65.634	ug/l	98
78) 4-Chlorotoluene	13.218	91	420022	55.095	ug/l	99
79) tert-butylbenzene	13.435	119	389222	53.458	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	466397	55.177	ug/l	98
81) sec-Butylbenzene	13.612	105	564906	56.952	ug/l	99
82) p-Isopropyltoluene	13.729	119	469774	56.404	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	257282	55.740	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	260975	56.816	ug/l	99
85) n-Butylbenzene	14.053	91	438545	62.894	ug/l	99
86) Hexachloroethane	14.329	117	86176	60.709	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	246553	55.373	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	43840	86.500	ug/l	92
89) 1,2,4-Trichlorobenzene	15.835	180	127450	68.396	ug/l	97
90) Hexachlorobutadiene	15.494	225	40360	50.535	ug/l	97
91) Naphthalene	15.635	128	528628	81.307	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	127450	68.396	ug/l	97

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

