

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062525\
 Data File : VN087165.D
 Acq On : 25 Jun 2025 10:03
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

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

Quant Time: Jun 25 10:45:11 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	35618	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	201156	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	183622	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	79655	32.549	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 108.500%		
60) 4-Bromofluorobenzene	12.847	95	89811	31.153	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 103.833%		
63) Toluene-d8	10.570	98	240658	28.555	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 95.167%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.153	85	209048	86.416	ug/l	98
3) Chloromethane	2.395	50	219144	70.260	ug/l	99
4) Vinyl Chloride	2.553	62	231029	80.487	ug/l	96
5) Bromomethane	2.977	94	121155	79.663	ug/l	96
6) Chloroethane	3.147	64	127025	72.354	ug/l	96
7) Trichlorofluoromethane	3.524	101	284892	84.743	ug/l	99
8) Diethyl Ether	3.983	74	144856	103.296	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.394	101	211983	102.887	ug/l #	89
10) 1,1-Dichloroethene	4.359	96	210381	100.157	ug/l	99
11) Methyl Iodide	4.612	142	223592	90.298	ug/l	94
12) Methyl Acetate	5.047	43	342955	147.018	ug/l	99
13) Acrolein	4.194	56	269423	1117.997	ug/l	98
14) Acrylonitrile	5.736	53	792103	729.677	ug/l	99
15) Acetone	4.447	58	221668	806.489	ug/l	88
16) Carbon Disulfide	4.736	76	599738	97.812	ug/l	99
17) Allyl chloride	5.047	41	352481	112.956	ug/l	96
18) Methylene Chloride	5.294	84	240448	98.570	ug/l	98
19) trans-1,2-Dichloroethene	5.806	96	227436	103.465	ug/l	98
20) Diisopropyl ether	6.688	45	754179	109.737	ug/l	96
21) 1,1-Dichloroethane	6.583	63	433300	104.470	ug/l	99
22) cis-1,2-Dichloroethene	7.500	96	269357	101.185	ug/l	98
23) tert-Butyl Alcohol	5.547	59	300461	861.903	ug/l #	100
24) Methyl tert-Butyl Ether	5.812	73	760825	109.903	ug/l	98
25) Chloroform	7.977	83	423559	104.336	ug/l	98
26) Cyclohexane	8.265	56	380867	106.100	ug/l #	97
29) 1,1-Dichloropropene	8.377	75	308919	104.450	ug/l	100
30) 2-Butanone	7.494	43	1060369	818.271	ug/l	99
31) 2,2-Dichloropropane	7.500	77	360566	103.280	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	351600	102.554	ug/l	99
33) Carbon Tetrachloride	8.371	117	300004	102.367	ug/l	98
34) Benzene	8.612	78	974806	101.298	ug/l	96
35) Methacrylonitrile	7.788	41	210741	141.572	ug/l	93
36) 1,2-Dichloroethane	8.677	62	306293	108.618	ug/l	98
37) Trichloroethene	9.359	130	225493	84.478	ug/l	91
38) Methylcyclohexane	9.606	83	369519	112.606	ug/l	97
39) 1,2-Dichloropropane	9.624	63	243095	104.928	ug/l	96
40) Dibromomethane	9.712	93	165326	109.106	ug/l	98
41) Bromodichloromethane	9.888	83	324962	102.452	ug/l	99
42) Vinyl Acetate	6.618	43	3371109	892.461	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062525\
 Data File : VN087165.D
 Acq On : 25 Jun 2025 10:03
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

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

Quant Time: Jun 25 10:45:11 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	382364	144.198	ug/l	97
44) Isopropyl Acetate	8.694	43	615849	135.389	ug/l	97
45) 1,4-Dioxane	9.706	88	88061	2178.117	ug/l #	94
46) Methyl methacrylate	9.682	41	289659	138.103	ug/l	98
47) n-amyl Acetate	12.506	43	386267	105.776	ug/l #	100
48) t-1,3-Dichloropropene	10.835	75	371754	109.526	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	392118	105.031	ug/l	98
50) 1,1,2-Trichloroethane	11.018	97	222928	104.457	ug/l	98
51) Ethyl methacrylate	10.876	69	387380	112.077	ug/l	99
52) 1,3-Dichloropropane	11.165	76	388131	102.479	ug/l	99
53) Dibromochloromethane	11.359	129	243297	100.883	ug/l	98
54) 1,2-Dibromoethane	11.470	107	239775	109.913	ug/l	97
55) 2-Chloroethyl vinyl ether	10.159	63	1069566	644.669	ug/l	99
56) Bromoform	12.576	173	172827	113.736	ug/l	100
58) 4-Methyl-2-Pentanone	10.447	43	1927138	715.253	ug/l	100
59) 2-Hexanone	11.200	43	1309927	678.728	ug/l	98
61) Tetrachloroethene	11.106	164	172205	55.791	ug/l	96
62) Toluene	10.629	91	1005355	97.215	ug/l	99
64) Chlorobenzene	11.894	112	655778	99.433	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	216474	99.911	ug/l	98
66) Ethyl Benzene	11.965	91	1162597	103.936	ug/l	99
67) m/p-Xylenes	12.070	106	898830	204.771	ug/l	99
68) o-Xylene	12.394	106	432376	101.641	ug/l	99
69) Styrene	12.412	104	742364	104.745	ug/l	99
70) Isopropylbenzene	12.694	105	1079915	106.734	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	370997	154.224	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	313625m	111.241	ug/l	
73) Bromobenzene	12.976	156	255120	101.447	ug/l	98
74) n-propylbenzene	13.035	91	1337231	111.580	ug/l	98
75) 2-Chlorotoluene	13.123	91	795441	103.407	ug/l	98
76) 1,3,5-Trimethylbenzene	13.170	105	897353	106.611	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	154353	133.783	ug/l	91
78) 4-Chlorotoluene	13.217	91	819288	107.520	ug/l	100
79) tert-butylbenzene	13.435	119	765014	105.123	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	903551	106.945	ug/l	99
81) sec-Butylbenzene	13.611	105	1098188	110.769	ug/l	99
82) p-Isopropyltoluene	13.729	119	929641	111.672	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	504027	109.250	ug/l	100
84) 1,4-Dichlorobenzene	13.811	146	503947	109.765	ug/l	99
85) n-Butylbenzene	14.053	91	837235	120.131	ug/l	98
86) Hexachloroethane	14.329	117	169893	119.744	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	478012	107.409	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	86628	171.007	ug/l	92
89) 1,2,4-Trichlorobenzene	15.835	180	274932	147.614	ug/l	98
90) Hexachlorobutadiene	15.500	225	78874	98.806	ug/l	97
91) Naphthalene	15.635	128	1105491	170.116	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	274932	147.614	ug/l	98

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

