

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072325\
 Data File : VN087401.D
 Acq On : 23 Jul 2025 10:50
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Jul 24 04:48:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 24 04:45:45 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

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

Internal Standards						
1) Bromochloromethane	7.800	128	27828	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.088	114	129832	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	125317	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	69606	30.225	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.767%			
60) 4-Bromofluorobenzene	12.829	95	61577	29.469	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.233%			
63) Toluene-d8	10.547	98	175156	30.358	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.200%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	91607	56.163	ug/l	90
3) Chloromethane	2.383	50	85856	52.143	ug/l	93
4) Vinyl Chloride	2.536	62	98171	53.317	ug/l	96
5) Bromomethane	2.983	94	53606	51.038	ug/l	85
6) Chloroethane	3.142	64	74768	52.818	ug/l #	80
7) Trichlorofluoromethane	3.512	101	169726	54.011	ug/l	94
8) Diethyl Ether	3.965	74	63095	51.545	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	87382	53.716	ug/l #	49
10) 1,1-Dichloroethene	4.342	96	90389	53.611	ug/l #	86
11) Methyl Iodide	4.577	142	66314	55.530	ug/l	84
12) Methyl Acetate	5.018	43	112981	51.651	ug/l	99
13) Acrolein	4.177	56	100654	266.503	ug/l	98
14) Acrylonitrile	5.706	53	268638	270.127	ug/l	97
15) Acetone	4.418	58	92968	267.843	ug/l	88
16) Carbon Disulfide	4.700	76	231659	53.447	ug/l	100
17) Allyl chloride	5.012	41	124126	53.424	ug/l	96
18) Methylene Chloride	5.265	84	89845	52.480	ug/l	95
19) trans-1,2-Dichloroethene	5.777	96	87935	53.707	ug/l	87
20) Diisopropyl ether	6.659	45	314163	54.033	ug/l	97
21) 1,1-Dichloroethane	6.559	63	165791	52.036	ug/l	93
22) cis-1,2-Dichloroethene	7.471	96	105874	54.291	ug/l	98
23) tert-Butyl Alcohol	5.524	59	86149	254.366	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	293662	54.657	ug/l	99
25) Chloroform	7.953	83	181745	52.771	ug/l	99
26) Cyclohexane	8.241	56	127464	53.896	ug/l #	99
29) 1,1-Dichloropropene	8.353	75	119038	54.228	ug/l	100
30) 2-Butanone	7.471	43	392692	265.904	ug/l	99
31) 2,2-Dichloropropane	7.471	77	154589	53.623	ug/l	100
32) 1,1,1-Trichloroethane	8.147	97	152900	53.598	ug/l	98
33) Carbon Tetrachloride	8.347	117	135790	54.202	ug/l	92
34) Benzene	8.588	78	373611	53.404	ug/l	99
35) Methacrylonitrile	7.765	41	83840	54.946	ug/l	94
36) 1,2-Dichloroethane	8.653	62	147065	52.588	ug/l	99
37) Trichloroethene	9.335	130	87373	53.383	ug/l	94
38) Methylcyclohexane	9.583	83	125981	55.475	ug/l	97
39) 1,2-Dichloropropane	9.600	63	93850	53.391	ug/l	99
40) Dibromomethane	9.688	93	70818	51.041	ug/l	97
41) Bromodichloromethane	9.871	83	145490	52.958	ug/l	88
42) Vinyl Acetate	6.594	43	1358425	268.612	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072325\
 Data File : VN087401.D
 Acq On : 23 Jul 2025 10:50
 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 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:48:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 24 04:45:45 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	165031	53.481	ug/l #	85
44) Isopropyl Acetate	8.677	43	254828	54.311	ug/l	98
45) 1,4-Dioxane	9.683	88	30131	1049.680	ug/l #	60
46) Methyl methacrylate	9.665	41	120368	55.864	ug/l	98
47) n-amyl Acetate	12.494	43	121448	50.138	ug/l #	59
48) t-1,3-Dichloropropene	10.818	75	155256	53.677	ug/l	94
49) cis-1,3-Dichloropropene	10.294	75	155524	53.187	ug/l	96
50) 1,1,2-Trichloroethane	10.994	97	93649	52.654	ug/l	94
51) Ethyl methacrylate	10.859	69	146084	54.273	ug/l	97
52) 1,3-Dichloropropane	11.141	76	160698	53.282	ug/l	99
53) Dibromochloromethane	11.341	129	109863	52.579	ug/l	99
54) 1,2-Dibromoethane	11.447	107	96076	51.604	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	423775	293.784	ug/l	98
56) Bromoform	12.559	173	76356	51.756	ug/l	96
58) 4-Methyl-2-Pentanone	10.430	43	835220	278.146	ug/l	99
59) 2-Hexanone	11.177	43	581899	284.894	ug/l	98
61) Tetrachloroethene	11.082	164	73817	52.511	ug/l	92
62) Toluene	10.612	91	401394	53.123	ug/l	99
64) Chlorobenzene	11.871	112	253811	53.109	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.941	131	93374	53.130	ug/l	98
66) Ethyl Benzene	11.941	91	451227	55.956	ug/l	98
67) m/p-Xylenes	12.053	106	364412	113.081	ug/l	98
68) o-Xylene	12.376	106	169951	56.267	ug/l	98
69) Styrene	12.394	104	300746	56.610	ug/l	99
70) Isopropylbenzene	12.676	105	430034	55.539	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.918	83	144973	52.384	ug/l	96
72) 1,2,3-Trichloropropane	12.971	75	127794m	36.450	ug/l	
73) Bromobenzene	12.959	156	110324	54.613	ug/l	97
74) n-propylbenzene	13.012	91	547317	55.618	ug/l	99
75) 2-Chlorotoluene	13.106	91	324838	55.907	ug/l	100
76) 1,3,5-Trimethylbenzene	13.153	105	380750	56.822	ug/l	99
77) t-1,4-Dichloro-2-butene	12.718	75	52374	54.578	ug/l	79
78) 4-Chlorotoluene	13.200	91	355261	56.983	ug/l	98
79) tert-butylbenzene	13.418	119	323348	57.238	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	388201	56.600	ug/l	99
81) sec-Butylbenzene	13.594	105	478249	58.026	ug/l	100
82) p-Isopropyltoluene	13.706	119	406637	57.620	ug/l	97
83) 1,3-Dichlorobenzene	13.712	146	227209	55.775	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	224690	55.809	ug/l	99
85) n-Butylbenzene	14.035	91	377394	58.545	ug/l	98
86) Hexachloroethane	14.306	117	77330	55.715	ug/l	100
87) 1,2-Dichlorobenzene	14.082	146	213234	55.182	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.694	75	34102	54.363	ug/l	92
89) 1,2,4-Trichlorobenzene	15.812	180	116269	52.752	ug/l	96
90) Hexachlorobutadiene	15.476	225	48352	53.046	ug/l	97
91) Naphthalene	15.612	128	406313	55.978	ug/l	99
92) 1,2,3-Trichlorobenzene	15.812	180	116269	52.752	ug/l	96

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072325\
 Data File : VN087401.D
 Acq On : 23 Jul 2025 10:50
 Operator : JC\MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_N

Client Sample Id :

VSTDIC050

Manual Integrations

APPROVED

Reviewed By : John Carlone 07/24/2025

Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:48:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072325W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Thu Jul 24 04:45:45 2025

Response via : Initial Calibration

