

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082025\
 Data File : VN087604.D
 Acq On : 20 Aug 2025 09:32
 Operator : JC\MD
 Sample : VN0820WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0820WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/21/2025
 Supervised By : Mahesh Dadoda 08/22/2025

Quant Time: Aug 21 02:39:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.800	128	57311	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	304862	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	275151	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	151846	28.726	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.767%		
60) 4-Bromofluorobenzene	12.829	95	137527	29.044	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.800%		
63) Toluene-d8	10.547	98	380581	30.061	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.200%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	68443	18.291	ug/l	98
3) Chloromethane	2.383	50	64220	16.728	ug/l	98
4) Vinyl Chloride	2.542	62	73150	17.965	ug/l	97
5) Bromomethane	2.977	94	32900	14.928	ug/l	87
6) Chloroethane	3.136	64	47359	18.037	ug/l	96
7) Trichlorofluoromethane	3.506	101	112898	19.266	ug/l	98
8) Diethyl Ether	3.965	74	43884	17.975	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.371	101	61511	20.584	ug/l	94
10) 1,1-Dichloroethene	4.336	96	62016	19.757	ug/l	88
11) Methyl Iodide	4.583	142	31139	12.599	ug/l	97
12) Methyl Acetate	5.018	43	108654	18.758	ug/l	94
13) Acrolein	4.177	56	114677	129.623	ug/l	98
14) Acrylonitrile	5.712	53	218183	86.261	ug/l	98
15) Acetone	4.424	58	72624	100.490	ug/l	99
16) Carbon Disulfide	4.706	76	161193	16.555	ug/l	98
17) Allyl chloride	5.006	41	106672	16.673	ug/l	94
18) Methylene Chloride	5.265	84	70911	17.548	ug/l	94
19) trans-1,2-Dichloroethene	5.771	96	63747	17.078	ug/l	95
20) Diisopropyl ether	6.659	45	234715	16.104	ug/l	98
21) 1,1-Dichloroethane	6.559	63	130505	17.323	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	76232	16.598	ug/l	99
23) tert-Butyl Alcohol	5.530	59	87181	81.115	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	237826	16.628	ug/l #	76
25) Chloroform	7.947	83	136026	17.298	ug/l	98
26) Cyclohexane	8.241	56	105599	17.507	ug/l #	99
29) 1,1-Dichloropropene	8.353	75	90764	18.254	ug/l	97
30) 2-Butanone	7.471	43	324917	88.650	ug/l #	98
31) 2,2-Dichloropropane	7.477	77	118343	18.453	ug/l #	81
32) 1,1,1-Trichloroethane	8.147	97	116368	18.350	ug/l	97
33) Carbon Tetrachloride	8.341	117	96167	18.254	ug/l	96
34) Benzene	8.588	78	278083	17.717	ug/l	99
35) Methacrylonitrile	7.759	41	64896	16.408	ug/l	95
36) 1,2-Dichloroethane	8.653	62	108386	17.085	ug/l	99
37) Trichloroethene	9.336	130	63070	18.242	ug/l	93
38) Methylcyclohexane	9.583	83	109060	18.906	ug/l	97
39) 1,2-Dichloropropane	9.600	63	73420	18.244	ug/l	96
40) Dibromomethane	9.694	93	53177	17.612	ug/l	97
41) Bromodichloromethane	9.871	83	108039	17.219	ug/l	96
42) Vinyl Acetate	6.589	43	1115718	92.437	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082025\
 Data File : VN087604.D
 Acq On : 20 Aug 2025 09:32
 Operator : JC\MD
 Sample : VN0820WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0820WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/21/2025
 Supervised By : Mahesh Dadoda 08/22/2025

Quant Time: Aug 21 02:39:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	126876	17.919	ug/l	99
44) Isopropyl Acetate	8.677	43	204017	16.998	ug/l	98
45) 1,4-Dioxane	9.683	88	28477	372.171	ug/l	99
46) Methyl methacrylate	9.665	41	90371	15.951	ug/l	99
47) n-amyl Acetate	12.600	43	123888m	18.685	ug/l	
48) t-1,3-Dichloropropene	10.818	75	114292	16.744	ug/l	95
49) cis-1,3-Dichloropropene	10.294	75	121420	17.675	ug/l	96
50) 1,1,2-Trichloroethane	10.994	97	68431	17.938	ug/l	89
51) Ethyl methacrylate	10.859	69	110883	16.504	ug/l	95
52) 1,3-Dichloropropane	11.141	76	122215	17.782	ug/l	97
53) Dibromochloromethane	11.341	129	78835	17.894	ug/l	98
54) 1,2-Dibromoethane	11.447	107	72647	17.938	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	326555	92.327	ug/l	99
56) Bromoform	12.559	173	49224	16.892	ug/l	99
58) 4-Methyl-2-Pentanone	10.424	43	626231	88.474	ug/l	98
59) 2-Hexanone	11.177	43	405822	84.383	ug/l	98
61) Tetrachloroethene	11.082	164	49952	18.634	ug/l	93
62) Toluene	10.612	91	298471	17.575	ug/l	100
64) Chlorobenzene	11.871	112	188955	18.108	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	64898	17.689	ug/l	98
66) Ethyl Benzene	11.941	91	335148	17.706	ug/l	99
67) m/p-Xylenes	12.053	106	250018	35.985	ug/l	95
68) o-Xylene	12.376	106	120246	17.592	ug/l	98
69) Styrene	12.388	104	200884	17.212	ug/l	97
70) Isopropylbenzene	12.676	105	317874	18.305	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	108003	18.152	ug/l	97
72) 1,2,3-Trichloropropane	12.971	75	93207m	16.815	ug/l	
73) Bromobenzene	12.959	156	71391	17.734	ug/l	96
74) n-propylbenzene	13.012	91	393548	18.146	ug/l	99
75) 2-Chlorotoluene	13.106	91	229926	17.235	ug/l	98
76) 1,3,5-Trimethylbenzene	13.153	105	262683	17.667	ug/l	97
77) t-1,4-Dichloro-2-butene	12.718	75	33537m	15.983	ug/l	
78) 4-Chlorotoluene	13.200	91	233857	17.298	ug/l	99
79) tert-butylbenzene	13.418	119	225056	17.953	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	267558	18.008	ug/l	100
81) sec-Butylbenzene	13.594	105	340244	18.643	ug/l	99
82) p-Isopropyltoluene	13.706	119	283478	18.708	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	138911	18.121	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	143933	18.520	ug/l	99
85) n-Butylbenzene	14.035	91	275425	18.578	ug/l	99
86) Hexachloroethane	14.312	117	53217	17.984	ug/l	97
87) 1,2-Dichlorobenzene	14.088	146	135512	18.519	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.694	75	24246	16.085	ug/l	91
89) 1,2,4-Trichlorobenzene	15.812	180	74255	16.980	ug/l	96
90) Hexachlorobutadiene	15.470	225	31835	18.721	ug/l	96
91) Naphthalene	15.617	128	286665	17.192	ug/l	99
92) 1,2,3-Trichlorobenzene	15.812	180	74255	16.980	ug/l	96

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

