

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086275.D
 Acq On : 14 Apr 2025 17:38
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/16/2025
 Supervised By : Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 15 03:14:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	34095	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	201530	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	181024	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	96579	29.042	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	96.800%
60) 4-Bromofluorobenzene	12.847	95	107218	29.749	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.167%
63) Toluene-d8	10.565	98	301204	29.473	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.233%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	53870	19.720	ug/l	96
3) Chloromethane	2.359	50	58350	15.454	ug/l	99
4) Vinyl Chloride	2.518	62	68621	19.081	ug/l	100
5) Bromomethane	2.965	94	26778	14.927	ug/l	99
6) Chloroethane	3.124	64	43417	19.118	ug/l	97
7) Trichlorofluoromethane	3.500	101	76929	19.719	ug/l	97
8) Diethyl Ether	3.959	74	33858	18.819	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.377	101	46905	19.498	ug/l	98
10) 1,1-Dichloroethene	4.342	96	49188	18.946	ug/l	99
11) Methyl Iodide	4.589	142	41101	13.774	ug/l	99
12) Methyl Acetate	5.024	43	71326	19.455	ug/l	98
13) Acrolein	4.183	56	44607	107.038	ug/l	96
14) Acrylonitrile	5.712	53	140719	90.919	ug/l	98
15) Acetone	4.424	58	35733	91.054	ug/l	89
16) Carbon Disulfide	4.712	76	142636	19.160	ug/l	98
17) Allyl chloride	5.024	41	82244	18.176	ug/l	98
18) Methylene Chloride	5.271	84	56334	19.031	ug/l	90
19) trans-1,2-Dichloroethene	5.789	96	50592	18.500	ug/l	94
20) Diisopropyl ether	6.671	45	184260	18.941	ug/l	98
21) 1,1-Dichloroethane	6.565	63	101448	19.546	ug/l	99
22) cis-1,2-Dichloroethene	7.483	96	62843	19.291	ug/l	99
23) tert-Butyl Alcohol	5.518	59	56187	87.613	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	179850	19.196	ug/l	99
25) Chloroform	7.959	83	99390	20.082	ug/l	98
26) Cyclohexane	8.253	56	91442	18.832	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	70772	19.603	ug/l	99
30) 2-Butanone	7.477	43	186885	93.421	ug/l	99
31) 2,2-Dichloropropane	7.488	77	86945	19.565	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	84878	20.438	ug/l	99
33) Carbon Tetrachloride	8.365	117	67982	20.484	ug/l	96
34) Benzene	8.606	78	230800	20.095	ug/l	96
35) Methacrylonitrile	7.771	41	41899	18.579	ug/l	98
36) 1,2-Dichloroethane	8.665	62	73575	20.471	ug/l	98
37) Trichloroethene	9.353	130	53549	19.323	ug/l	97
38) Methylcyclohexane	9.594	83	82854	18.713	ug/l	100
39) 1,2-Dichloropropane	9.618	63	57003	19.945	ug/l	96
40) Dibromomethane	9.706	93	37302	20.209	ug/l	97
41) Bromodichloromethane	9.882	83	78824	19.878	ug/l	96
42) Vinyl Acetate	6.600	43	674636	99.073	ug/l	99

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 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
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Reviewed By : John Carlone 04/16/2025
 Supervised By : Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 15 03:14:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	76059	18.850	ug/l	98
44) Isopropyl Acetate	8.682	43	134628	17.985	ug/l	96
45) 1,4-Dioxane	9.688	88	23416	393.391	ug/l #	94
46) Methyl methacrylate	9.677	41	62973	19.093	ug/l	93
47) n-amyl Acetate	12.488	43	121005	20.388	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	88571	19.757	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	94652	19.949	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	52544	20.296	ug/l	98
51) Ethyl methacrylate	10.871	69	95527	19.856	ug/l	100
52) 1,3-Dichloropropane	11.159	76	93899	20.349	ug/l	99
53) Dibromochloromethane	11.359	129	57755	20.395	ug/l	99
54) 1,2-Dibromoethane	11.465	107	53031	20.292	ug/l	99
55) 2-Chloroethyl vinyl ether	10.153	63	221351	121.759	ug/l	99
56) Bromoform	12.576	173	37771	20.387	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	391338	95.263	ug/l	99
59) 2-Hexanone	11.194	43	285815	93.436	ug/l	99
61) Tetrachloroethene	11.100	164	50766	18.990	ug/l	95
62) Toluene	10.624	91	247900	20.417	ug/l	99
64) Chlorobenzene	11.888	112	150402	20.275	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	51728	21.130	ug/l	99
66) Ethyl Benzene	11.959	91	274082	20.355	ug/l	99
67) m/p-Xylenes	12.070	106	205474	41.038	ug/l	99
68) o-Xylene	12.394	106	102718	20.857	ug/l	99
69) Styrene	12.406	104	171277	20.622	ug/l	98
70) Isopropylbenzene	12.694	105	251651	20.724	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	77217	22.341	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	71321m	19.824	ug/l	
73) Bromobenzene	12.976	156	57330	21.312	ug/l	94
74) n-propylbenzene	13.035	91	295376	20.600	ug/l	100
75) 2-Chlorotoluene	13.123	91	185617	20.596	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	204477	20.499	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	29794	17.960	ug/l	98
78) 4-Chlorotoluene	13.217	91	184248	20.470	ug/l	100
79) tert-butylbenzene	13.435	119	175515	20.335	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	205501	20.317	ug/l	100
81) sec-Butylbenzene	13.612	105	241580	20.065	ug/l	99
82) p-Isopropyltoluene	13.723	119	200525	19.965	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	104528	20.906	ug/l	100
84) 1,4-Dichlorobenzene	13.806	146	102938	20.523	ug/l	99
85) n-Butylbenzene	14.053	91	172367	19.024	ug/l	98
86) Hexachloroethane	14.329	117	33717	19.901	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	102545	20.772	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	15139	19.231	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	45876	19.099	ug/l	99
90) Hexachlorobutadiene	15.500	225	19250	18.562	ug/l	97
91) Naphthalene	15.635	128	170963	18.052	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	45876	19.099	ug/l	99

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

