

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086258.D
 Acq On : 14 Apr 2025 10:30
 Operator : JC\MD
 Sample : VN0414WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0414WBS01

Manual Integrations
 APPROVED

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

Quant Time: Apr 15 03:04:43 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	36879	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	225158	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	200399	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	107914	30.001	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.000%			
60) 4-Bromofluorobenzene	12.847	95	117162	29.365	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.867%			
63) Toluene-d8	10.565	98	338635	29.932	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.767%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	61251	20.729	ug/l	99
3) Chloromethane	2.359	50	80659	19.750	ug/l	99
4) Vinyl Chloride	2.512	62	77149	19.833	ug/l	99
5) Bromomethane	2.965	94	37720	19.440	ug/l	100
6) Chloroethane	3.124	64	48664	19.811	ug/l	98
7) Trichlorofluoromethane	3.500	101	84176	19.948	ug/l	99
8) Diethyl Ether	3.959	74	37186	19.109	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	52729	20.264	ug/l	98
10) 1,1-Dichloroethene	4.336	96	53563	19.074	ug/l	90
11) Methyl Iodide	4.583	142	63260	19.600	ug/l	97
12) Methyl Acetate	5.024	43	80685	20.346	ug/l	96
13) Acrolein	4.177	56	51921	115.184	ug/l	98
14) Acrylonitrile	5.712	53	161554	96.501	ug/l	99
15) Acetone	4.424	58	39995	94.221	ug/l	86
16) Carbon Disulfide	4.712	76	155915	19.362	ug/l	99
17) Allyl chloride	5.018	41	95949	19.604	ug/l	100
18) Methylene Chloride	5.277	84	62289	19.455	ug/l	95
19) trans-1,2-Dichloroethene	5.783	96	56991	19.267	ug/l	98
20) Diisopropyl ether	6.671	45	205517	19.531	ug/l	96
21) 1,1-Dichloroethane	6.565	63	112578	20.053	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	70370	19.971	ug/l	99
23) tert-Butyl Alcohol	5.512	59	68299	98.460	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	201333	19.867	ug/l	99
25) Chloroform	7.965	83	108985	20.358	ug/l	100
26) Cyclohexane	8.259	56	104294	19.857	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	79196	19.635	ug/l	99
30) 2-Butanone	7.477	43	218235	97.644	ug/l	99
31) 2,2-Dichloropropane	7.488	77	102531	20.651	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	93805	20.218	ug/l	98
33) Carbon Tetrachloride	8.359	117	76431	20.613	ug/l	98
34) Benzene	8.606	78	256807	20.013	ug/l	97
35) Methacrylonitrile	7.777	41	48109	19.094	ug/l	95
36) 1,2-Dichloroethane	8.671	62	79447	19.785	ug/l	98
37) Trichloroethene	9.347	130	61173	19.758	ug/l	95
38) Methylcyclohexane	9.600	83	98435	19.899	ug/l	98
39) 1,2-Dichloropropane	9.618	63	64370	20.160	ug/l	96
40) Dibromomethane	9.706	93	39821	19.309	ug/l	97
41) Bromodichloromethane	9.882	83	87893	19.839	ug/l	99
42) Vinyl Acetate	6.600	43	754169	99.130	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086258.D
 Acq On : 14 Apr 2025 10:30
 Operator : JC\MD
 Sample : VN0414WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0414WBS01

Quant Time: Apr 15 03:04:43 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

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	84824	18.816	ug/l	99
44) Isopropyl Acetate	8.682	43	156967	18.769	ug/l	100
45) 1,4-Dioxane	9.694	88	27132	407.987	ug/l #	93
46) Methyl methacrylate	9.677	41	70397	19.104	ug/l	96
47) n-amyl Acetate	12.488	43	125064	18.861	ug/l	100
48) t-1,3-Dichloropropene	10.829	75	100398	20.045	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	106442	20.080	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	57405	19.847	ug/l	96
51) Ethyl methacrylate	10.871	69	107320	19.966	ug/l	97
52) 1,3-Dichloropropane	11.159	76	102866	19.953	ug/l	99
53) Dibromochloromethane	11.353	129	63672	20.125	ug/l	99
54) 1,2-Dibromoethane	11.465	107	57989	19.861	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	277515	136.634	ug/l	99
56) Bromoform	12.576	173	42602	20.582	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	453475	99.716	ug/l	100
59) 2-Hexanone	11.194	43	331992	98.039	ug/l	99
61) Tetrachloroethene	11.100	164	60657	20.496	ug/l	96
62) Toluene	10.629	91	274337	20.410	ug/l	99
64) Chlorobenzene	11.888	112	166315	20.253	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	56093	20.697	ug/l	99
66) Ethyl Benzene	11.959	91	300996	20.192	ug/l	98
67) m/p-Xylenes	12.065	106	226476	40.859	ug/l	100
68) o-Xylene	12.394	106	111656	20.480	ug/l	99
69) Styrene	12.406	104	187151	20.354	ug/l	98
70) Isopropylbenzene	12.694	105	276457	20.566	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	77255	20.191	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	68150m	17.111	ug/l	
73) Bromobenzene	12.976	156	61503	20.653	ug/l	97
74) n-propylbenzene	13.035	91	327436	20.629	ug/l	100
75) 2-Chlorotoluene	13.123	91	203289	20.376	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	225441	20.416	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	35902	19.550	ug/l	93
78) 4-Chlorotoluene	13.217	91	200138	20.086	ug/l	99
79) tert-butylbenzene	13.435	119	200516	20.985	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	226948	20.268	ug/l	99
81) sec-Butylbenzene	13.612	105	275746	20.689	ug/l	100
82) p-Isopropyltoluene	13.729	119	228119	20.517	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	113608	20.526	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	111516	20.084	ug/l	99
85) n-Butylbenzene	14.053	91	204037	20.342	ug/l	99
86) Hexachloroethane	14.329	117	37827	20.168	ug/l	98
87) 1,2-Dichlorobenzene	14.106	146	110247	20.173	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	16866	19.353	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	52993	19.929	ug/l	99
90) Hexachlorobutadiene	15.500	225	20919	18.221	ug/l	97
91) Naphthalene	15.635	128	195107	18.610	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	52993	19.929	ug/l	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
Data File : VN086258.D
Acq On : 14 Apr 2025 10:30
Operator : JC\MD
Sample : VN0414WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01

Manual Integrations
APPROVED

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

Quant Time: Apr 15 03:04:43 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

