

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091421\
 Data File : VN068471.D
 Acq On : 14 Sep 2021 15:00
 Operator : JC/MD
 Sample : VN0914WBSD01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/15/2021
 Supervised By : Mahesh Dadoda 09/15/2021

Quant Time: Sep 15 05:37:41 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N091321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Sep 14 04:23:31 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	92134	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	471923	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	444109	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	167309	30.749	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.500%			
60) 4-Bromofluorobenzene	12.733	95	195183	30.834	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.767%			
63) Toluene-d8	10.443	98	585860	30.324	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.067%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.073	85	89117	21.236	ug/l	98
3) Chloromethane	2.303	50	83618	20.598	ug/l	100
4) Vinyl Chloride	2.443	62	133269	20.714	ug/l	100
5) Bromomethane	2.861	94	133509	20.891	ug/l	98
6) Chloroethane	3.019	64	99712	21.713	ug/l	98
7) Trichlorofluoromethane	3.376	101	165015	20.807	ug/l	99
8) Diethyl Ether	3.832	74	53611	21.432	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.213	101	96311	21.320	ug/l	68
10) 1,1-Dichloroethene	4.183	96	85498	20.364	ug/l	93
11) Methyl Iodide	4.430	142	134596	20.646	ug/l	98
12) Methyl Acetate	4.851	43	91182	20.882	ug/l	99
13) Acrolein	4.044	56	34272	97.579	ug/l	99
14) Acrylonitrile	5.551	53	192504	101.720	ug/l	97
15) Acetone	4.288	58	52179	101.173	ug/l	100
16) Carbon Disulfide	4.535	76	212697	19.630	ug/l	100
17) Allyl chloride	4.848	41	110020m	20.986	ug/l	
18) Methylene Chloride	5.100	84	102883	20.470	ug/l	98
19) trans-1,2-Dichloroethene	5.602	96	95470	20.294	ug/l	96
20) Diisopropyl ether	6.498	45	253460	21.796	ug/l	98
21) 1,1-Dichloroethane	6.391	63	161978	20.958	ug/l	98
22) cis-1,2-Dichloroethene	7.329	96	116255	20.553	ug/l	98
23) tert-Butyl Alcohol	5.369	59	73411	95.990	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	307197	21.487	ug/l #	79
25) Chloroform	7.820	83	195460	21.132	ug/l	99
26) Cyclohexane	8.099	56	134368	20.564	ug/l #	99
29) 1,1-Dichloropropene	8.222	75	132856	21.004	ug/l	98
30) 2-Butanone	7.337	43	247762	102.629	ug/l #	97
31) 2,2-Dichloropropane	7.324	77	147802	20.305	ug/l	96
32) 1,1,1-Trichloroethane	8.016	97	183112	21.318	ug/l	99
33) Carbon Tetrachloride	8.209	117	166132	20.692	ug/l	99
34) Benzene	8.461	78	413417	21.433	ug/l	98
35) Methacrylonitrile	7.640	41	49207	21.134	ug/l	96
36) 1,2-Dichloroethane	8.531	62	142724	21.977	ug/l	100
37) Trichloroethene	9.220	130	127295	20.595	ug/l	99
38) Methylcyclohexane	9.461	83	170081	20.919	ug/l	99
39) 1,2-Dichloropropane	9.491	63	98214	21.635	ug/l	97
40) Dibromomethane	9.579	93	79584	21.337	ug/l	99
41) Bromodichloromethane	9.762	83	157423	21.840	ug/l	94
42) Vinyl Acetate	6.436	43	962942m	108.259	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	104886	20.598	ug/l #	82
44) Isopropyl Acetate	8.563	43	185602	21.295	ug/l	100
45) 1,4-Dioxane	9.569	88	36497	414.122	ug/l	95
46) Methyl methacrylate	9.561	41	75486	21.412	ug/l	97
47) n-amyl Acetate	12.390	43	128740	21.036	ug/l	99
48) t-1,3-Dichloropropene	10.722	75	154725	21.201	ug/l	99
49) cis-1,3-Dichloropropene	10.191	75	165576	21.109	ug/l	99
50) 1,1,2-Trichloroethane	10.899	97	115344	21.399	ug/l	98
51) Ethyl methacrylate	10.762	69	146847	21.220	ug/l	98
52) 1,3-Dichloropropane	11.046	76	173802	21.683	ug/l	99
53) Dibromochloromethane	11.240	129	140470	21.194	ug/l	99
54) 1,2-Dibromoethane	11.347	107	121508	21.020	ug/l	99
55) 2-Chloroethyl vinyl ether	10.043	63	89776	76.633	ug/l	98
56) Bromoform	12.460	173	105788	19.873	ug/l #	99
58) 4-Methyl-2-Pentanone	10.333	43	548042	104.830	ug/l	100
59) 2-Hexanone	11.087	43	373924	103.201	ug/l	99
61) Tetrachloroethene	10.979	164	135264	21.183	ug/l	99
62) Toluene	10.507	91	496832	21.256	ug/l	100
64) Chlorobenzene	11.773	112	322938	20.948	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	131983	20.978	ug/l	99
66) Ethyl Benzene	11.848	91	531192	20.911	ug/l	99
67) m/p-Xylenes	11.956	106	447261	42.713	ug/l	99
68) o-Xylene	12.283	106	218603	21.145	ug/l	98
69) Styrene	12.296	104	340679	20.781	ug/l	98
70) Isopropylbenzene	12.580	105	556304	21.193	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.830	83	154255	21.589	ug/l	99
72) 1,2,3-Trichloropropane	12.884	75	127329m	21.406	ug/l	
73) Bromobenzene	12.862	156	152975	20.529	ug/l	97
74) n-propylbenzene	12.924	91	596409	21.068	ug/l	100
75) 2-Chlorotoluene	13.010	91	369212	21.671	ug/l	100
76) 1,3,5-Trimethylbenzene	13.061	105	472270	21.549	ug/l	99
77) t-1,4-Dichloro-2-butene	12.629	75	38326	19.526	ug/l	97
78) 4-Chlorotoluene	13.106	91	355857	21.765	ug/l	99
79) tert-butylbenzene	13.326	119	420369	20.878	ug/l	99
80) 1,2,4-Trimethylbenzene	13.372	105	449638m	21.207	ug/l	
81) sec-Butylbenzene	13.503	105	565359	21.243	ug/l	100
82) p-Isopropyltoluene	13.618	119	471222	20.643	ug/l	100
83) 1,3-Dichlorobenzene	13.616	146	266811	20.599	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	256855	20.701	ug/l	99
85) n-Butylbenzene	13.946	91	323646	19.933	ug/l	100
86) Hexachloroethane	14.211	117	84001	20.033	ug/l	99
87) 1,2-Dichlorobenzene	13.991	146	260380	20.920	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.605	75	24404	20.198	ug/l	94
89) 1,2,4-Trichlorobenzene	15.265	180	110984	18.455	ug/l	98
90) Hexachlorobutadiene	15.372	225	74165	19.500	ug/l	99
91) Naphthalene	15.509	128	222358	17.140	ug/l	99
92) 1,2,3-Trichlorobenzene	15.702	180	103677	18.306	ug/l	100

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

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