

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090821\
 Data File : VN068431.D
 Acq On : 8 Sep 2021 11:11
 Operator : JC/MD
 Sample : VN0908WBSD01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0908WBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/10/2021 10:50:52 AM

Quant Time: Sep 09 03:31:19 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 03 13:24:01 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	103040	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	533208	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.747	117	473108	30.000	ug/l	# 0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	192288	31.477	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.933%			
60) 4-Bromofluorobenzene	12.734	95	202662	30.249	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.833%			
63) Toluene-d8	10.443	98	642777	30.509	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.078	85	100495	19.262	ug/l	99
3) Chloromethane	2.309	50	91438	19.370	ug/l	100
4) Vinyl Chloride	2.448	62	145539	20.691	ug/l	98
5) Bromomethane	2.859	94	140567	21.794	ug/l	91
6) Chloroethane	3.025	64	106697m	21.263	ug/l	
7) Trichlorofluoromethane	3.382	101	184792	19.207	ug/l	98
8) Diethyl Ether	3.835	74	60886	19.922	ug/l	77
9) 1,1,2-Trichlorotrifluo...	4.218	101	105866	19.353	ug/l	82
10) 1,1-Dichloroethene	4.191	96	97216	18.915	ug/l	# 76
11) Methyl Iodide	4.430	142	151136	18.278	ug/l	84
12) Methyl Acetate	4.862	43	105082	20.314	ug/l	# 86
13) Acrolein	4.049	56	50725	109.401	ug/l	98
14) Acrylonitrile	5.557	53	213032	101.555	ug/l	98
15) Acetone	4.293	58	60225	97.680	ug/l	68
16) Carbon Disulfide	4.540	76	248756	18.521	ug/l	98
17) Allyl chloride	4.849	41	122875	19.517	ug/l	93
18) Methylene Chloride	5.106	84	110282	19.605	ug/l	# 79
19) trans-1,2-Dichloroethene	5.605	96	109097	19.042	ug/l	# 74
20) Diisopropyl ether	6.498	45	270139	19.634	ug/l	# 91
21) 1,1-Dichloroethane	6.393	63	174012	19.124	ug/l	# 91
22) cis-1,2-Dichloroethene	7.329	96	128546	19.310	ug/l	# 78
23) tert-Butyl Alcohol	5.369	59	81295	105.586	ug/l	# 100
24) Methyl tert-Butyl Ether	5.621	73	330801	19.810	ug/l	# 87
25) Chloroform	7.823	83	208730	19.530	ug/l	100
26) Cyclohexane	8.099	56	151011	18.946	ug/l	# 76
29) 1,1-Dichloropropene	8.225	75	143447	18.753	ug/l	91
30) 2-Butanone	7.337	43	271461	99.189	ug/l	# 88
31) 2,2-Dichloropropane	7.332	77	163083	18.721	ug/l	# 91
32) 1,1,1-Trichloroethane	8.019	97	193611	19.271	ug/l	93
33) Carbon Tetrachloride	8.212	117	177523	19.124	ug/l	95
34) Benzene	8.464	78	436669	19.313	ug/l	# 93
35) Methacrylonitrile	7.640	41	53963	20.183	ug/l	83
36) 1,2-Dichloroethane	8.534	62	151441	20.004	ug/l	# 94
37) Trichloroethene	9.217	130	136491	18.885	ug/l	# 75
38) Methylcyclohexane	9.464	83	187397	18.872	ug/l	85
39) 1,2-Dichloropropane	9.494	63	103748	19.355	ug/l	95
40) Dibromomethane	9.580	93	83284	19.634	ug/l	76
41) Bromodichloromethane	9.765	83	160757	19.616	ug/l	# 99
42) Vinyl Acetate	6.436	43	1005448m	97.136	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.415	43	116104m	21.334	ug/l	
44) Isopropyl Acetate	8.563	43	201051	20.335	ug/l	94
45) 1,4-Dioxane	9.574	88	36021	407.579	ug/l	87
46) Methyl methacrylate	9.561	41	76934	18.405	ug/l	82
47) n-amyl Acetate	12.390	43	120144	17.761	ug/l #	91
48) t-1,3-Dichloropropene	10.719	75	152165	18.867	ug/l	99
49) cis-1,3-Dichloropropene	10.191	75	169128	19.013	ug/l #	85
50) 1,1,2-Trichloroethane	10.899	97	117338	19.609	ug/l	95
51) Ethyl methacrylate	10.762	69	146135	18.995	ug/l	83
52) 1,3-Dichloropropane	11.047	76	175192	19.391	ug/l	99
53) Dibromochloromethane	11.240	129	137891	19.121	ug/l	99
54) 1,2-Dibromoethane	11.347	107	122275	19.550	ug/l	99
55) 2-Chloroethyl vinyl ether	10.044	63	45956	91.162	ug/l #	92
56) Bromoform	12.463	173	96475	17.482	ug/l #	99
58) 4-Methyl-2-Pentanone	10.331	43	573208	104.118	ug/l #	89
59) 2-Hexanone	11.087	43	380258	99.528	ug/l	88
61) Tetrachloroethene	10.980	164	140495	19.207	ug/l	90
62) Toluene	10.508	91	503587	19.399	ug/l	100
64) Chlorobenzene	11.773	112	323485	19.328	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	131774	19.665	ug/l	99
66) Ethyl Benzene	11.846	91	532841	19.069	ug/l	92
67) m/p-Xylenes	11.956	106	437142	38.154	ug/l	78
68) o-Xylene	12.283	106	211703	19.077	ug/l	78
69) Styrene	12.296	104	324392	18.514	ug/l #	91
70) Isopropylbenzene	12.581	105	539376	18.870	ug/l	93
71) 1,1,2,2-Tetrachloroethane	12.827	83	150849	20.636	ug/l	98
72) 1,2,3-Trichloropropane	12.881	75	122658m	20.468	ug/l	
73) Bromobenzene	12.862	156	142061	17.958	ug/l	54
74) n-propylbenzene	12.924	91	583241	18.890	ug/l	90
75) 2-Chlorotoluene	13.010	91	348143	19.000	ug/l #	100
76) 1,3,5-Trimethylbenzene	13.061	105	445992	18.859	ug/l	90
77) t-1,4-Dichloro-2-butene	12.629	75	32482	17.879	ug/l	89
78) 4-Chlorotoluene	13.109	91	340847	18.972	ug/l	83
79) tert-butylbenzene	13.326	119	408690	18.903	ug/l	82
80) 1,2,4-Trimethylbenzene	13.372	105	427244m	18.600	ug/l	
81) sec-Butylbenzene	13.506	105	538402	18.550	ug/l	91
82) p-Isopropyltoluene	13.619	119	452389	18.112	ug/l	90
83) 1,3-Dichlorobenzene	13.619	146	251902	18.033	ug/l	90
84) 1,4-Dichlorobenzene	13.696	146	241376	17.923	ug/l	92
85) n-Butylbenzene	13.946	91	323610	17.376	ug/l	96
86) Hexachloroethane	14.211	117	76165	18.026	ug/l	75
87) 1,2-Dichlorobenzene	13.989	146	238214	17.940	ug/l	92
88) 1,2-Dibromo-3-Chloropr...	14.606	75	25621	20.251	ug/l #	45
89) 1,2,4-Trichlorobenzene	15.265	180	111756	15.669	ug/l	97
90) Hexachlorobutadiene	15.373	225	72809	17.370	ug/l	94
91) Naphthalene	15.507	128	221506	14.692	ug/l	98
92) 1,2,3-Trichlorobenzene	15.702	180	104377	15.386	ug/l	95

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

