

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092821\
 Data File : VN068726.D
 Acq On : 28 Sep 2021 17:58
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN092821

Manual Integrations
 APPROVED

MMDadoda
 9/30/2021 12:17:38 PM

Quant Time: Sep 29 08:58:33 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092821W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 29 08:56:32 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	86377	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	501713	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	465755	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	210767	31.656	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 105.533%			
60) 4-Bromofluorobenzene	12.733	95	210392	28.916	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.400%			
63) Toluene-d8	10.443	98	645145	30.645	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.167%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.073	85	71290	18.611	ug/l	97
3) Chloromethane	2.303	50	100927	20.588	ug/l	96
4) Vinyl Chloride	2.443	62	195575	20.465	ug/l	100
5) Bromomethane	2.856	94	173899	18.746	ug/l	98
6) Chloroethane	3.019	64	155211	19.979	ug/l	98
7) Trichlorofluoromethane	3.373	101	158416	19.871	ug/l	98
8) Diethyl Ether	3.824	74	57195	20.950	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.215	101	91431	19.809	ug/l	57
10) 1,1-Dichloroethene	4.183	96	84805	19.910	ug/l	99
11) Methyl Iodide	4.427	142	92904	18.084	ug/l	98
12) Methyl Acetate	4.854	43	157043	21.349	ug/l	97
13) Acrolein	4.049	56	29991m	97.116	ug/l	
14) Acrylonitrile	5.556	53	253595	107.346	ug/l	98
15) Acetone	4.288	58	68924	105.323	ug/l	81
16) Carbon Disulfide	4.535	76	229619	19.908	ug/l	98
17) Allyl chloride	4.848	41	138276	20.432	ug/l	97
18) Methylene Chloride	5.100	84	109587	20.484	ug/l	99
19) trans-1,2-Dichloroethene	5.602	96	98638	19.593	ug/l	96
20) Diisopropyl ether	6.498	45	316774	20.130	ug/l	99
21) 1,1-Dichloroethane	6.388	63	187182	20.490	ug/l	99
22) cis-1,2-Dichloroethene	7.329	96	120887	19.734	ug/l	98
23) tert-Butyl Alcohol	5.363	59	93109	106.222	ug/l #	100
24) Methyl tert-Butyl Ether	5.615	73	338434	20.228	ug/l	99
25) Chloroform	7.820	83	217262	20.172	ug/l	100
26) Cyclohexane	8.099	56	153685	19.328	ug/l #	96
29) 1,1-Dichloropropene	8.225	75	147594	18.512	ug/l	99
30) 2-Butanone	7.335	43	361508	100.947	ug/l #	97
31) 2,2-Dichloropropane	7.329	77	177068	19.327	ug/l	98
32) 1,1,1-Trichloroethane	8.018	97	197942	19.373	ug/l	98
33) Carbon Tetrachloride	8.206	117	173246	19.076	ug/l	98
34) Benzene	8.461	78	457231	19.331	ug/l	99
35) Methacrylonitrile	7.635	41	73653	20.525	ug/l	97
36) 1,2-Dichloroethane	8.531	62	173169	19.570	ug/l	100
37) Trichloroethene	9.220	130	119181	19.057	ug/l	98
38) Methylcyclohexane	9.461	83	181506	18.390	ug/l	99
39) 1,2-Dichloropropane	9.494	63	115559	19.724	ug/l	97
40) Dibromomethane	9.579	93	87580	18.938	ug/l	100
41) Bromodichloromethane	9.764	83	175570	19.368	ug/l	94
42) Vinyl Acetate	6.433	43	1286714	97.032	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	132924	18.569	ug/l	99
44) Isopropyl Acetate	8.560	43	258579	19.943	ug/l	100
45) 1,4-Dioxane	9.569	88	41053	391.067	ug/l	98
46) Methyl methacrylate	9.561	41	107449	18.737	ug/l	97
47) n-amyl Acetate	12.390	43	205136	18.683	ug/l	99
48) t-1,3-Dichloropropene	10.722	75	181807	18.455	ug/l	99
49) cis-1,3-Dichloropropene	10.191	75	188972	18.758	ug/l	99
50) 1,1,2-Trichloroethane	10.899	97	122592	19.129	ug/l	98
51) Ethyl methacrylate	10.762	69	179840	18.632	ug/l	99
52) 1,3-Dichloropropane	11.046	76	196460	18.944	ug/l	99
53) Dibromochloromethane	11.242	129	132547	18.208	ug/l	99
54) 1,2-Dibromoethane	11.347	107	126327	18.790	ug/l	95
55) 2-Chloroethyl vinyl ether	10.043	63	238660	88.558	ug/l	99
56) Bromoform	12.460	173	91404	17.411	ug/l #	99
58) 4-Methyl-2-Pentanone	10.330	43	800104	101.776	ug/l	99
59) 2-Hexanone	11.087	43	585694	102.278	ug/l	100
61) Tetrachloroethene	10.979	164	103934	19.040	ug/l	95
62) Toluene	10.507	91	542874	19.495	ug/l	99
64) Chlorobenzene	11.771	112	324705	19.002	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.843	131	127065	19.172	ug/l	99
66) Ethyl Benzene	11.848	91	594207	18.937	ug/l	97
67) m/p-Xylenes	11.956	106	450626	37.193	ug/l	98
68) o-Xylene	12.283	106	222725	18.673	ug/l	98
69) Styrene	12.296	104	360053	18.290	ug/l	100
70) Isopropylbenzene	12.580	105	592210	18.724	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.830	83	180421	20.246	ug/l	97
72) 1,2,3-Trichloropropane	12.881	75	146915m	20.348	ug/l	
73) Bromobenzene	12.862	156	132331	18.483	ug/l	100
74) n-propylbenzene	12.924	91	672149	18.536	ug/l	100
75) 2-Chlorotoluene	13.010	91	398994	18.853	ug/l	100
76) 1,3,5-Trimethylbenzene	13.061	105	490115	18.764	ug/l	100
77) t-1,4-Dichloro-2-butene	12.629	75	49761	17.670	ug/l	99
78) 4-Chlorotoluene	13.109	91	382407	18.243	ug/l	98
79) tert-butylbenzene	13.326	119	422232	18.519	ug/l	99
80) 1,2,4-Trimethylbenzene	13.369	105	482721m	18.643	ug/l	
81) sec-Butylbenzene	13.503	105	600784	18.380	ug/l	100
82) p-Isopropyltoluene	13.618	119	482641	17.826	ug/l	99
83) 1,3-Dichlorobenzene	13.618	146	238903	17.987	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	228105	18.052	ug/l	98
85) n-Butylbenzene	13.946	91	391326	17.569	ug/l	99
86) Hexachloroethane	14.211	117	94214	18.488	ug/l	98
87) 1,2-Dichlorobenzene	13.991	146	227809	18.550	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.605	75	32239	20.228	ug/l	97
89) 1,2,4-Trichlorobenzene	15.265	180	105659	17.513	ug/l	98
90) Hexachlorobutadiene	15.372	225	53842	17.904	ug/l	98
91) Naphthalene	15.509	128	311740	18.305	ug/l	99
92) 1,2,3-Trichlorobenzene	15.702	180	103723	17.932	ug/l	99

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

