

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102521\
 Data File : VN069146.D
 Acq On : 25 Oct 2021 11:37
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

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10/27/2021 2:20:35 PM

Quant Time: Oct 26 03:33:55 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102221W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 22 13:15:19 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	59260	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	352889	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	319907	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	141944	30.752	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 102.500%	
60) 4-Bromofluorobenzene	12.733	95	161156	29.379	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 97.933%	
63) Toluene-d8	10.443	98	443103	30.657	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 102.200%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.075	85	87131	22.237	ug/l	96
3) Chloromethane	2.303	50	88881	21.818	ug/l	98
4) Vinyl Chloride	2.445	62	103081	21.228	ug/l	100
5) Bromomethane	2.866	94	67553	21.211	ug/l	98
6) Chloroethane	3.025	64	65115	20.687	ug/l	99
7) Trichlorofluoromethane	3.379	101	137625	21.887	ug/l	100
8) Diethyl Ether	3.829	74	47026	21.123	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.221	101	76248	22.320	ug/l	72
10) 1,1-Dichloroethene	4.191	96	70494	21.151	ug/l	100
11) Methyl Iodide	4.427	142	92279	19.691	ug/l	95
12) Methyl Acetate	4.856	43	128549	20.252	ug/l	95
13) Acrolein	4.047	56	42037	109.925	ug/l	99
14) Acrylonitrile	5.556	53	182569	101.367	ug/l	99
15) Acetone	4.288	58	63787	113.294	ug/l	95
16) Carbon Disulfide	4.537	76	190208	21.239	ug/l	97
17) Allyl chloride	4.846	41	120148	20.934	ug/l	92
18) Methylene Chloride	5.101	84	84314	21.289	ug/l	99
19) trans-1,2-Dichloroethene	5.602	96	75766	20.935	ug/l	94
20) Diisopropyl ether	6.498	45	256946	20.958	ug/l	95
21) 1,1-Dichloroethane	6.391	63	147429	21.544	ug/l	99
22) cis-1,2-Dichloroethene	7.329	96	92724	21.375	ug/l	99
23) tert-Butyl Alcohol	5.366	59	71860	97.242	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	265196	20.978	ug/l	99
25) Chloroform	7.820	83	157547	21.545	ug/l	100
26) Cyclohexane	8.099	56	135366	21.476	ug/l #	99
29) 1,1-Dichloropropene	8.222	75	115454	20.789	ug/l	98
30) 2-Butanone	7.335	43	268637	100.740	ug/l	99
31) 2,2-Dichloropropane	7.329	77	139300	20.937	ug/l	100
32) 1,1,1-Trichloroethane	8.019	97	141824	20.524	ug/l	98
33) Carbon Tetrachloride	8.209	117	123568	21.053	ug/l	98
34) Benzene	8.461	78	341502	20.593	ug/l	99
35) Methacrylonitrile	7.635	41	51087	19.223	ug/l	97
36) 1,2-Dichloroethane	8.533	62	124194	20.751	ug/l	100
37) Trichloroethene	9.217	130	86235	20.451	ug/l	91
38) Methylcyclohexane	9.461	83	150196	21.244	ug/l	97
39) 1,2-Dichloropropane	9.491	63	87624	20.721	ug/l	97
40) Dibromomethane	9.579	93	60779	20.558	ug/l	97
41) Bromodichloromethane	9.762	83	121993	20.650	ug/l	94
42) Vinyl Acetate	6.436	43	950150	99.857	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	102476	19.700	ug/l	99
44) Isopropyl Acetate	8.560	43	187571	19.474	ug/l	98
45) 1,4-Dioxane	9.571	88	30912	401.009	ug/l	97
46) Methyl methacrylate	9.561	41	80302	18.443	ug/l	91
47) n-amyl Acetate	12.390	43	152281	18.623	ug/l	99
48) t-1,3-Dichloropropene	10.719	75	139785	20.457	ug/l	100
49) cis-1,3-Dichloropropene	10.191	75	144844	20.356	ug/l	96
50) 1,1,2-Trichloroethane	10.899	97	85407	20.129	ug/l	97
51) Ethyl methacrylate	10.762	69	136521	19.518	ug/l	94
52) 1,3-Dichloropropane	11.046	76	145252	20.347	ug/l	98
53) Dibromochloromethane	11.240	129	92006	20.312	ug/l	99
54) 1,2-Dibromoethane	11.347	107	88956	20.055	ug/l	97
55) 2-Chloroethyl vinyl ether	10.043	63	180023	81.066	ug/l	98
56) Bromoform	12.460	173	63427	19.425	ug/l #	99
58) 4-Methyl-2-Pentanone	10.330	43	548601	101.649	ug/l	98
59) 2-Hexanone	11.087	43	410889	100.815	ug/l	98
61) Tetrachloroethene	10.979	164	77544	22.303	ug/l	95
62) Toluene	10.507	91	397663	21.341	ug/l	99
64) Chlorobenzene	11.773	112	236027	20.885	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	87737	20.868	ug/l	99
66) Ethyl Benzene	11.846	91	447294	21.351	ug/l	100
67) m/p-Xylenes	11.956	106	334598	42.472	ug/l	96
68) o-Xylene	12.283	106	164116	20.804	ug/l	97
69) Styrene	12.296	104	267289	20.447	ug/l	98
70) Isopropylbenzene	12.581	105	435028	21.035	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.830	83	124464	20.533	ug/l	99
72) 1,2,3-Trichloropropane	12.881	75	103428m	19.858	ug/l	
73) Bromobenzene	12.862	156	95983	20.476	ug/l	95
74) n-propylbenzene	12.924	91	504697	21.251	ug/l	100
75) 2-Chlorotoluene	13.010	91	306982	21.109	ug/l	97
76) 1,3,5-Trimethylbenzene	13.061	105	364644	21.155	ug/l	99
77) t-1,4-Dichloro-2-butene	12.629	75	39449	19.367	ug/l	96
78) 4-Chlorotoluene	13.106	91	296654	20.814	ug/l	94
79) tert-butylbenzene	13.326	119	321575	21.248	ug/l	99
80) 1,2,4-Trimethylbenzene	13.369	105	356394m	21.063	ug/l	
81) sec-Butylbenzene	13.503	105	446416	21.071	ug/l	99
82) p-Isopropyltoluene	13.618	119	361984	20.947	ug/l	99
83) 1,3-Dichlorobenzene	13.618	146	172410	20.892	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	164039	20.413	ug/l	96
85) n-Butylbenzene	13.946	91	298225	20.634	ug/l	99
86) Hexachloroethane	14.214	117	66926	20.683	ug/l	91
87) 1,2-Dichlorobenzene	13.991	146	165679	21.011	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.605	75	23292	20.630	ug/l	95
89) 1,2,4-Trichlorobenzene	15.265	180	77421	19.473	ug/l	99
90) Hexachlorobutadiene	15.372	225	44962	21.631	ug/l	98
91) Naphthalene	15.509	128	204608	17.792	ug/l	100
92) 1,2,3-Trichlorobenzene	15.702	180	74921	19.718	ug/l	99

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

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