

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062323\
 Data File : VN078375.D
 Acq On : 23 Jun 2023 13:54
 Operator : JC\MD
 Sample : VN0623WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0623WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/24/2023
 Supervised By : Mahesh Dadoda 06/26/2023

Quant Time: Jun 24 01:18:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 24 00:59:50 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	73986	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	427692	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	374958	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	171680	30.814	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.700%			
60) 4-Bromofluorobenzene	12.853	95	158219	29.950	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.833%			
63) Toluene-d8	10.570	98	531691	29.266	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.567%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	92468	20.635	ug/l	93
3) Chloromethane	2.371	50	116000	21.465	ug/l	98
4) Vinyl Chloride	2.524	62	142223	21.395	ug/l	99
5) Bromomethane	2.971	94	101601	18.801	ug/l	98
6) Chloroethane	3.130	64	87689	18.519	ug/l	91
7) Trichlorofluoromethane	3.506	101	160000	20.450	ug/l	100
8) Diethyl Ether	3.977	74	55408	21.215	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.383	101	87097	20.483	ug/l	97
10) 1,1-Dichloroethene	4.353	96	86989	20.860	ug/l	97
11) Methyl Iodide	4.600	142	121133	20.503	ug/l	99
12) Methyl Acetate	5.041	43	141115	21.812	ug/l	97
13) Acrolein	4.189	56	83003	102.462	ug/l	92
14) Acrylonitrile	5.730	53	189428	108.084	ug/l	99
15) Acetone	4.441	58	50919	101.888	ug/l	98
16) Carbon Disulfide	4.724	76	223553	19.618	ug/l	98
17) Allyl chloride	5.041	41	110003	21.031	ug/l	95
18) Methylene Chloride	5.289	84	103205	20.885	ug/l	96
19) trans-1,2-Dichloroethene	5.794	96	90946	19.761	ug/l	93
20) Diisopropyl ether	6.683	45	265351	21.120	ug/l	97
21) 1,1-Dichloroethane	6.583	63	174279	20.913	ug/l	98
22) cis-1,2-Dichloroethene	7.494	96	108611	20.745	ug/l	99
23) tert-Butyl Alcohol	5.530	59	66586	101.707	ug/l #	100
24) Methyl tert-Butyl Ether	5.812	73	279369m	21.246	ug/l	
25) Chloroform	7.977	83	184562	20.956	ug/l	98
26) Cyclohexane	8.265	56	124650	20.899	ug/l #	97
29) 1,1-Dichloropropene	8.382	75	133531	20.140	ug/l	98
30) 2-Butanone	7.494	43	237160	102.053	ug/l	99
31) 2,2-Dichloropropane	7.500	77	140804	19.863	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	159952	19.799	ug/l	98
33) Carbon Tetrachloride	8.371	117	142145	20.180	ug/l	93
34) Benzene	8.612	78	401018	20.283	ug/l	98
35) Methacrylonitrile	7.788	41	58102	21.808	ug/l	93
36) 1,2-Dichloroethane	8.677	62	139175	20.647	ug/l #	88
37) Trichloroethene	9.359	130	104823	20.752	ug/l	96
38) Methylcyclohexane	9.612	83	116102	19.932	ug/l	99
39) 1,2-Dichloropropane	9.623	63	101400	20.474	ug/l	95
40) Dibromomethane	9.718	93	73004	20.428	ug/l	97
41) Bromodichloromethane	9.894	83	144558	20.821	ug/l	99
42) Vinyl Acetate	6.618	43	749157	101.197	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	105741	21.611	ug/l	98
44) Isopropyl Acetate	8.694	43	180126	20.381	ug/l	100
45) 1,4-Dioxane	9.700	88	30192	387.235	ug/l	93
46) Methyl methacrylate	9.688	41	82544	20.982	ug/l	98
47) n-amyl Acetate	12.500	43	128422	19.768	ug/l	100
48) t-1,3-Dichloropropene	10.841	75	140848	19.762	ug/l	97
49) cis-1,3-Dichloropropene	10.318	75	155767	19.829	ug/l	97
50) 1,1,2-Trichloroethane	11.023	97	99651	20.800	ug/l	97
51) Ethyl methacrylate	10.882	69	131950	20.132	ug/l	90
52) 1,3-Dichloropropane	11.170	76	166690	20.731	ug/l	99
53) Dibromochloromethane	11.365	129	104070	20.480	ug/l	100
54) 1,2-Dibromoethane	11.476	107	100071	20.724	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	255519	105.675	ug/l	98
56) Bromoform	12.582	173	61664	19.824	ug/l	97
58) 4-Methyl-2-Pentanone	10.453	43	517285	103.308	ug/l	99
59) 2-Hexanone	11.200	43	349250	100.993	ug/l	98
61) Tetrachloroethene	11.112	164	87829	21.376	ug/l	95
62) Toluene	10.635	91	443372	20.318	ug/l	99
64) Chlorobenzene	11.894	112	261550	20.222	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.970	131	101649	20.381	ug/l	98
66) Ethyl Benzene	11.970	91	448347	20.191	ug/l	99
67) m/p-Xylenes	12.076	106	341926	40.725	ug/l	99
68) o-Xylene	12.406	106	172261	21.158	ug/l	98
69) Styrene	12.417	104	258566	20.058	ug/l	99
70) Isopropylbenzene	12.700	105	407678	20.378	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	134517	20.677	ug/l	98
72) 1,2,3-Trichloropropane	13.000	75	105875m	19.524	ug/l	
73) Bromobenzene	12.988	156	92178	19.272	ug/l	95
74) n-propylbenzene	13.041	91	439776	20.216	ug/l	98
75) 2-Chlorotoluene	13.129	91	282007	19.150	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	324937	19.588	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	33632	19.188	ug/l	91
78) 4-Chlorotoluene	13.229	91	267668	19.424	ug/l	98
79) tert-butylbenzene	13.441	119	270994	19.859	ug/l	98
80) 1,2,4-Trimethylbenzene	13.488	105	319335	20.372	ug/l	99
81) sec-Butylbenzene	13.623	105	345640	20.303	ug/l	99
82) p-Isopropyltoluene	13.735	119	273568	19.978	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	156767	20.679	ug/l	98
84) 1,4-Dichlorobenzene	13.817	146	142326	19.418	ug/l	98
85) n-Butylbenzene	14.059	91	195221	19.301	ug/l	99
86) Hexachloroethane	14.335	117	50855	19.296	ug/l	95
87) 1,2-Dichlorobenzene	14.111	146	152975	20.357	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.723	75	17833	18.192	ug/l	97
89) 1,2,4-Trichlorobenzene	15.400	180	40144	17.520	ug/l	97
90) Hexachlorobutadiene	15.511	225	27808	17.851	ug/l	96
91) Naphthalene	15.647	128	125365	16.698	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	49002	18.486	ug/l	96

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

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