

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062323\
 Data File : VN078374.D
 Acq On : 23 Jun 2023 13:21
 Operator : JC\MD
 Sample : VN0623WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0623WBS01

Quant Time: Jun 24 01:17:38 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

Manual Integrations
 APPROVED

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

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

Internal Standards						
1) Bromochloromethane	7.818	128	77707	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	455484	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	392272	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	176814	30.216	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.733%			
60) 4-Bromofluorobenzene	12.853	95	169538	30.676	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.267%			
63) Toluene-d8	10.571	98	566873	29.825	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.433%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.136	85	101975	21.667	ug/l	99
3) Chloromethane	2.371	50	121237	21.360	ug/l	97
4) Vinyl Chloride	2.524	62	147230	21.087	ug/l	94
5) Bromomethane	2.971	94	106112	18.695	ug/l	96
6) Chloroethane	3.130	64	95050	19.113	ug/l	98
7) Trichlorofluoromethane	3.506	101	172264	20.963	ug/l	99
8) Diethyl Ether	3.977	74	55919	20.386	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.383	101	96525	21.613	ug/l	99
10) 1,1-Dichloroethene	4.353	96	92636	21.150	ug/l	83
11) Methyl Iodide	4.595	142	128285	20.674	ug/l	97
12) Methyl Acetate	5.036	43	141847	20.875	ug/l	98
13) Acrolein	4.189	56	83640	98.304	ug/l	94
14) Acrylonitrile	5.730	53	197738	107.423	ug/l	98
15) Acetone	4.442	58	54820	104.441	ug/l	95
16) Carbon Disulfide	4.724	76	240330	20.080	ug/l	95
17) Allyl chloride	5.042	41	110536	20.121	ug/l	95
18) Methylene Chloride	5.289	84	106542	20.528	ug/l	92
19) trans-1,2-Dichloroethene	5.806	96	100665	20.826	ug/l	84
20) Diisopropyl ether	6.683	45	271408	20.567	ug/l	97
21) 1,1-Dichloroethane	6.583	63	183129	20.922	ug/l	98
22) cis-1,2-Dichloroethene	7.494	96	113491	20.639	ug/l	99
23) tert-Butyl Alcohol	5.530	59	66595	96.850	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	282857	20.482	ug/l	97
25) Chloroform	7.977	83	198602	21.470	ug/l	91
26) Cyclohexane	8.265	56	131776	21.036	ug/l #	97
29) 1,1-Dichloropropene	8.377	75	141980	20.108	ug/l	99
30) 2-Butanone	7.494	43	244646	98.851	ug/l	99
31) 2,2-Dichloropropane	7.500	77	153727	20.363	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	172165	20.011	ug/l	98
33) Carbon Tetrachloride	8.365	117	150698	20.089	ug/l	92
34) Benzene	8.612	78	418618	19.882	ug/l	99
35) Methacrylonitrile	7.788	41	60593	21.355	ug/l	87
36) 1,2-Dichloroethane	8.682	62	147267	20.514	ug/l	100
37) Trichloroethene	9.359	130	109618	20.377	ug/l	100
38) Methylcyclohexane	9.612	83	123450	19.900	ug/l	98
39) 1,2-Dichloropropane	9.624	63	105769	20.054	ug/l	89
40) Dibromomethane	9.712	93	74047	19.455	ug/l	98
41) Bromodichloromethane	9.894	83	151746	20.523	ug/l	95
42) Vinyl Acetate	6.612	43	805587	102.180	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	105183	20.185	ug/l	98
44) Isopropyl Acetate	8.694	43	186689	19.835	ug/l	96
45) 1,4-Dioxane	9.700	88	33333	401.435	ug/l	98
46) Methyl methacrylate	9.688	41	88398	21.099	ug/l	95
47) n-amyl Acetate	12.500	43	137737	19.908	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	150774	19.864	ug/l	94
49) cis-1,3-Dichloropropene	10.318	75	165697	19.806	ug/l	98
50) 1,1,2-Trichloroethane	11.024	97	106842	20.940	ug/l	97
51) Ethyl methacrylate	10.882	69	134825	19.316	ug/l	96
52) 1,3-Dichloropropane	11.171	76	172891	20.190	ug/l	99
53) Dibromochloromethane	11.365	129	108102	19.975	ug/l	99
54) 1,2-Dibromoethane	11.476	107	102591	19.949	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	255451	99.201	ug/l	98
56) Bromoform	12.582	173	66207	19.986	ug/l	97
58) 4-Methyl-2-Pentanone	10.453	43	526906	100.585	ug/l	99
59) 2-Hexanone	11.200	43	362584	100.221	ug/l	100
61) Tetrachloroethene	11.106	164	93379	21.724	ug/l	95
62) Toluene	10.635	91	464934	20.365	ug/l	99
64) Chlorobenzene	11.894	112	275241	20.341	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.965	131	106548	20.420	ug/l	98
66) Ethyl Benzene	11.970	91	482605	20.775	ug/l	97
67) m/p-Xylenes	12.076	106	364572	41.506	ug/l	99
68) o-Xylene	12.406	106	183919	21.593	ug/l	98
69) Styrene	12.418	104	281142	20.847	ug/l	99
70) Isopropylbenzene	12.700	105	436407	20.851	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	137039	20.134	ug/l	98
72) 1,2,3-Trichloropropane	13.000	75	107855m	19.012	ug/l	
73) Bromobenzene	12.982	156	100205	20.025	ug/l	96
74) n-propylbenzene	13.041	91	483918	21.263	ug/l	99
75) 2-Chlorotoluene	13.129	91	303804	19.720	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	349885	20.161	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	35957	19.609	ug/l	89
78) 4-Chlorotoluene	13.223	91	284495	19.733	ug/l	100
79) tert-butylbenzene	13.441	119	286641	20.078	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	337400	20.575	ug/l	97
81) sec-Butylbenzene	13.623	105	358504	20.129	ug/l	99
82) p-Isopropyltoluene	13.735	119	293482	20.487	ug/l	99
83) 1,3-Dichlorobenzene	13.741	146	164829	20.783	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	162002	21.127	ug/l	99
85) n-Butylbenzene	14.059	91	210078	19.853	ug/l	99
86) Hexachloroethane	14.335	117	52935	19.198	ug/l	99
87) 1,2-Dichlorobenzene	14.112	146	165775	21.087	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.729	75	20113	19.613	ug/l	97
89) 1,2,4-Trichlorobenzene	15.394	180	42626	17.782	ug/l	95
90) Hexachlorobutadiene	15.511	225	29492	18.096	ug/l	98
91) Naphthalene	15.647	128	136730	17.408	ug/l	98
92) 1,2,3-Trichlorobenzene	15.847	180	51047	18.407	ug/l	93

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

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