

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101823\
 Data File : VN079599.D
 Acq On : 18 Oct 2023 14:08
 Operator : JC\MD
 Sample : 04699-09 2.5PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2023

Quant Time: Oct 19 06:14:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 02:19:15 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/19/2023
 Supervised By : Mahesh Dadoda 10/20/2023

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

Internal Standards						
1) Bromochloromethane	7.818	128	19341	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	132058	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	159683	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.589	65	82978	30.175	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.600%			
60) 4-Bromofluorobenzene	12.853	95	72166	24.713	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 82.367%			
63) Toluene-d8	10.571	98	207044	30.258	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.867%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	7245	2.583	ug/l	98
3) Chloromethane	2.371	50	9104	2.504	ug/l	91
4) Vinyl Chloride	2.518	62	10345	2.637	ug/l #	86
5) Bromomethane	2.965	94	7287	2.996	ug/l	83
6) Chloroethane	3.130	64	8890	3.219	ug/l	99
7) Trichlorofluoromethane	3.495	101	12624	2.637	ug/l	94
8) Diethyl Ether	3.971	74	4474	2.579	ug/l	34
9) 1,1,2-Trichlorotrifluo...	4.377	101	6946	2.536	ug/l	80
10) 1,1-Dichloroethene	4.342	96	6012	2.307	ug/l #	56
11) Methyl Iodide	4.589	142	5461m	1.893	ug/l	
12) Methyl Acetate	5.036	43	15353	2.444	ug/l	92
13) Acrolein	4.195	56	7089m	13.650	ug/l	
14) Acrylonitrile	5.718	53	17267	11.477	ug/l	77
15) Acetone	4.436	58	5661	11.878	ug/l	85
16) Carbon Disulfide	4.718	76	20032m	2.521	ug/l	
17) Allyl chloride	5.024	41	11022m	2.743	ug/l	
18) Methylene Chloride	5.283	84	10110	3.152	ug/l #	78
19) trans-1,2-Dichloroethene	5.795	96	7426	2.547	ug/l #	86
20) Diisopropyl ether	6.683	45	20559	2.158	ug/l #	87
21) 1,1-Dichloroethane	6.577	63	14804	2.557	ug/l	98
22) cis-1,2-Dichloroethene	7.489	96	8002	2.383	ug/l	90
23) tert-Butyl Alcohol	5.536	59	6717m	13.352	ug/l	
24) Methyl tert-Butyl Ether	5.800	73	19528m	2.233	ug/l	
25) Chloroform	7.977	83	15077m	2.577	ug/l	
26) Cyclohexane	8.259	56	9530m	2.178	ug/l	
29) 1,1-Dichloropropene	8.377	75	9524	2.468	ug/l	92
30) 2-Butanone	7.494	43	23424	12.109	ug/l #	97
31) 2,2-Dichloropropane	7.494	77	11396	2.619	ug/l #	63
32) 1,1,1-Trichloroethane	8.171	97	12615	2.750	ug/l	98
33) Carbon Tetrachloride	8.365	117	11086m	2.842	ug/l	
34) Benzene	8.606	78	29134	2.485	ug/l #	66
35) Methacrylonitrile	7.783	41	4418m	2.171	ug/l	
36) 1,2-Dichloroethane	8.677	62	12192	2.912	ug/l	98
37) Trichloroethene	9.353	130	7571	2.762	ug/l	89
38) Methylcyclohexane	9.600	83	8652	2.329	ug/l	97
39) 1,2-Dichloropropane	9.624	63	8539	2.760	ug/l	91
40) Dibromomethane	9.712	93	5511	2.714	ug/l	99
41) Bromodichloromethane	9.894	83	11506	2.734	ug/l	87
42) Vinyl Acetate	6.606	43	53034	10.807	ug/l #	93

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	10609	2.917	ug/l #	82
44) Isopropyl Acetate	8.694	43	16383	2.534	ug/l	100
45) 1,4-Dioxane	9.694	88	2315m	45.736	ug/l	
46) Methyl methacrylate	9.688	41	5274	1.838	ug/l	86
47) n-amyl Acetate	12.500	43	7576	1.623	ug/l	98
48) t-1,3-Dichloropropene	10.835	75	10102	2.375	ug/l	91
49) cis-1,3-Dichloropropene	10.312	75	11091	2.384	ug/l #	92
50) 1,1,2-Trichloroethane	11.024	97	7362	2.613	ug/l	92
51) Ethyl methacrylate	10.882	69	8125	2.090	ug/l	93
52) 1,3-Dichloropropane	11.171	76	12623	2.529	ug/l	98
53) Dibromochloromethane	11.365	129	7167	2.489	ug/l	91
54) 1,2-Dibromoethane	11.471	107	6800	2.447	ug/l	94
55) 2-Chloroethyl vinyl ether	10.165	63	11548	7.787	ug/l	99
56) Bromoform	12.582	173	5179	2.719	ug/l #	92
58) 4-Methyl-2-Pentanone	10.447	43	39205	10.526	ug/l	97
59) 2-Hexanone	11.206	43	27499	10.064	ug/l	98
61) Tetrachloroethene	11.106	164	6847	3.123	ug/l #	78
62) Toluene	10.635	91	30883	2.531	ug/l	97
64) Chlorobenzene	11.894	112	18119	2.560	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.959	131	7943	2.946	ug/l	86
66) Ethyl Benzene	11.971	91	27825	2.213	ug/l	93
67) m/p-Xylenes	12.082	106	17660	3.797	ug/l	86
68) o-Xylene	12.400	106	9094	2.045	ug/l	95
69) Styrene	12.418	104	12465	1.766	ug/l	95
70) Isopropylbenzene	12.700	105	22122	1.939	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.941	83	10030	2.472	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	10012m	2.717	ug/l	
73) Bromobenzene	12.988	156	6159	2.298	ug/l	95
74) n-propylbenzene	13.041	91	24523	1.846	ug/l	97
75) 2-Chlorotoluene	13.129	91	17316	2.097	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	17824	1.911	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	2238	1.990	ug/l	91
78) 4-Chlorotoluene	13.224	91	13160	1.687	ug/l	99
79) tert-butylbenzene	13.441	119	14641	1.952	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	14362	1.589	ug/l	96
81) sec-Butylbenzene	13.623	105	19457	1.848	ug/l	96
82) p-Isopropyltoluene	13.729	119	14361	1.720	ug/l	89
83) 1,3-Dichlorobenzene	13.741	146	7423	1.684	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	6549	1.550	ug/l	93
85) n-Butylbenzene	14.059	91	8289	1.270	ug/l	100
86) Hexachloroethane	14.341	117	4317	2.391	ug/l	96
87) 1,2-Dichlorobenzene	14.112	146	7661	1.749	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.729	75	1278	2.067	ug/l #	87
89) 1,2,4-Trichlorobenzene	15.841	180	1689	1.094	ug/l #	94
90) Hexachlorobutadiene	15.500	225	2689	2.459	ug/l	80
91) Naphthalene	15.647	128	4824	1.211	ug/l	97
92) 1,2,3-Trichlorobenzene	15.841	180	1689	1.094	ug/l	94

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

