

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020923\
 Data File : VN076599.D
 Acq On : 09 Feb 2023 19:50
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN020923

Quant Time: Feb 10 05:44:29 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020923W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 10 05:40:47 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/10/2023
 Supervised By : Semsettin Yesilyurt 02/10/2023

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

Internal Standards						
1) Bromochloromethane	7.816	128	28579	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	9.110	114	208592	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.868	117	227537	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.586	65	105421	31.297	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	104.333%		
60) 4-Bromofluorobenzene	12.851	95	141689	27.583	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	91.933%		
63) Toluene-d8	10.569	98	245232	29.353	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.833%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.140	85	84885	21.459	ug/l	98
3) Chloromethane	2.375	50	82783	17.405	ug/l	97
4) Vinyl Chloride	2.528	62	74326	17.898	ug/l	99
5) Bromomethane	2.969	94	41637	19.971	ug/l	100
6) Chloroethane	3.134	64	39993m	18.566	ug/l	
7) Trichlorofluoromethane	3.510	101	137815	19.543	ug/l	95
8) Diethyl Ether	3.969	74	46406	20.748	ug/l	88
9) 1,1,2-Trichlorotrifluo...	4.381	101	69409	20.447	ug/l	74
10) 1,1-Dichloroethene	4.357	96	63217	19.818	ug/l	# 84
11) Methyl Iodide	4.598	142	93321	20.136	ug/l	88
12) Methyl Acetate	5.040	43	129023	19.274	ug/l	# 89
13) Acrolein	4.192	56	79839	93.117	ug/l	98
14) Acrylonitrile	5.734	53	200311	102.137	ug/l	99
15) Acetone	4.445	58	51938	91.720	ug/l	# 66
16) Carbon Disulfide	4.728	76	179381	20.461	ug/l	98
17) Allyl chloride	5.045	41	121676	19.786	ug/l	92
18) Methylene Chloride	5.287	84	73666	19.516	ug/l	# 85
19) trans-1,2-Dichloroethene	5.804	96	68526	20.911	ug/l	92
20) Diisopropyl ether	6.681	45	260684	18.571	ug/l	95
21) 1,1-Dichloroethane	6.581	63	142244	18.582	ug/l	98
22) cis-1,2-Dichloroethene	7.498	96	76918	19.589	ug/l	86
23) tert-Butyl Alcohol	5.528	59	74231	112.795	ug/l	# 100
24) Methyl tert-Butyl Ether	5.810	73	241515	21.022	ug/l	93
25) Chloroform	7.975	83	146779	19.378	ug/l	99
26) Cyclohexane	8.269	56	127101	18.711	ug/l	# 95
29) 1,1-Dichloropropene	8.380	75	108870	20.164	ug/l	95
30) 2-Butanone	7.492	43	288757	99.080	ug/l	97
31) 2,2-Dichloropropane	7.504	77	111512	19.892	ug/l	96
32) 1,1,1-Trichloroethane	8.175	97	132025	19.708	ug/l	97
33) Carbon Tetrachloride	8.369	117	113478	19.636	ug/l	97
34) Benzene	8.610	78	303451	18.291	ug/l	93
35) Methacrylonitrile	7.786	41	65340	19.499	ug/l	95
36) 1,2-Dichloroethane	8.675	62	129120	20.296	ug/l	# 95
37) Trichloroethene	9.357	130	70772	20.836	ug/l	88
38) Methylcyclohexane	9.604	83	123696	20.698	ug/l	92
39) 1,2-Dichloropropane	9.627	63	79042	19.965	ug/l	97
40) Dibromomethane	9.716	93	52381	20.111	ug/l	95
41) Bromodichloromethane	9.892	83	111656	20.389	ug/l	# 98
42) Vinyl Acetate	6.616	43	923328m	97.401	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.569	43	127555	21.464	ug/l	98
44) Isopropyl Acetate	8.692	43	195008	19.949	ug/l	99
45) 1,4-Dioxane	9.698	88	34099	427.910	ug/l	89
46) Methyl methacrylate	9.686	41	96516	20.478	ug/l	90
47) n-amyl Acetate	12.498	43	171233	20.608	ug/l	95
48) t-1,3-Dichloropropene	10.839	75	112986	20.496	ug/l	93
49) cis-1,3-Dichloropropene	10.316	75	125002	20.513	ug/l #	86
50) 1,1,2-Trichloroethane	11.016	97	70888	20.041	ug/l	94
51) Ethyl methacrylate	10.880	69	116306	20.708	ug/l	89
52) 1,3-Dichloropropane	11.169	76	129406	19.626	ug/l	98
53) Dibromochloromethane	11.357	129	75276	20.480	ug/l	95
54) 1,2-Dibromoethane	11.474	107	71000	19.836	ug/l	97
55) 2-Chloroethyl vinyl ether	10.163	63	264328	103.033	ug/l	98
56) Bromoform	12.580	173	47736	20.166	ug/l	98
58) 4-Methyl-2-Pentanone	10.445	43	615411	96.751	ug/l	95
59) 2-Hexanone	11.198	43	448828	97.049	ug/l	94
61) Tetrachloroethene	11.110	164	56036	19.266	ug/l	97
62) Toluene	10.633	91	315796	18.720	ug/l	97
64) Chlorobenzene	11.892	112	187255	19.161	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.963	131	70928	19.144	ug/l	97
66) Ethyl Benzene	11.968	91	357423	19.326	ug/l	98
67) m/p-Xylenes	12.074	106	266082	38.346	ug/l	92
68) o-Xylene	12.404	106	129167	18.895	ug/l	90
69) Styrene	12.416	104	209731	19.328	ug/l	93
70) Isopropylbenzene	12.698	105	344782	18.820	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.939	83	110654	17.325	ug/l	100
72) 1,2,3-Trichloropropane	12.998	75	94557m	16.209	ug/l	
73) Bromobenzene	12.980	156	76021	17.488	ug/l	99
74) n-propylbenzene	13.039	91	409023	17.408	ug/l	98
75) 2-Chlorotoluene	13.127	91	256376	17.346	ug/l	93
76) 1,3,5-Trimethylbenzene	13.174	105	304537	17.802	ug/l	96
77) t-1,4-Dichloro-2-butene	12.739	75	32536	18.491	ug/l	83
78) 4-Chlorotoluene	13.221	91	250570	16.861	ug/l	94
79) tert-butylbenzene	13.445	119	257160	17.710	ug/l	91
80) 1,2,4-Trimethylbenzene	13.486	105	294222	17.440	ug/l	97
81) sec-Butylbenzene	13.621	105	352431	17.334	ug/l	100
82) p-Isopropyltoluene	13.733	119	288873	17.682	ug/l	96
83) 1,3-Dichlorobenzene	13.733	146	137660	17.121	ug/l	96
84) 1,4-Dichlorobenzene	13.815	146	136423	17.007	ug/l	97
85) n-Butylbenzene	14.057	91	248574	16.385	ug/l	99
86) Hexachloroethane	14.333	117	52373	16.510	ug/l	94
87) 1,2-Dichlorobenzene	14.110	146	141386	16.019	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.727	75	25329	19.456	ug/l	82
89) 1,2,4-Trichlorobenzene	15.392	180	72154	19.602	ug/l	98
90) Hexachlorobutadiene	15.504	225	35423	19.920	ug/l	100
91) Naphthalene	15.645	128	249048	19.830	ug/l	99
92) 1,2,3-Trichlorobenzene	15.845	180	73002	19.870	ug/l	97

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

