

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030923\
 Data File : VN076891.D
 Acq On : 09 Mar 2023 09:51
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/10/2023
 Supervised By : Mahesh Dadoda 03/10/2023

Quant Time: Mar 10 01:23:03 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 09 04:16:54 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.825	128	52681	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	393567	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	427733	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	152033	31.397	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.667%			
60) 4-Bromofluorobenzene	12.848	95	251288	31.041	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.467%			
63) Toluene-d8	10.572	98	449563	29.882	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.143	85	140844	20.892	ug/l	99
3) Chloromethane	2.378	50	120901	19.621	ug/l	99
4) Vinyl Chloride	2.531	62	111015	19.758	ug/l	93
5) Bromomethane	2.984	94	73260	20.388	ug/l	97
6) Chloroethane	3.143	64	63265	19.161	ug/l	90
7) Trichlorofluoromethane	3.519	101	211752	20.173	ug/l	98
8) Diethyl Ether	3.978	74	80657	20.490	ug/l	86
9) 1,1,2-Trichlorotrifluo...	4.390	101	123032	20.690	ug/l	96
10) 1,1-Dichloroethene	4.360	96	118909	20.602	ug/l	96
11) Methyl Iodide	4.613	142	136858	19.678	ug/l	91
12) Methyl Acetate	5.042	43	185461	19.536	ug/l	93
13) Acrolein	4.195	56	135356	96.446	ug/l	98
14) Acrylonitrile	5.737	53	304695	97.432	ug/l	98
15) Acetone	4.437	58	111115	130.557	ug/l	87
16) Carbon Disulfide	4.737	76	328731	20.540	ug/l	97
17) Allyl chloride	5.037	41	174493	20.156	ug/l	95
18) Methylene Chloride	5.295	84	133177	19.726	ug/l	87
19) trans-1,2-Dichloroethene	5.795	96	123829	20.361	ug/l	96
20) Diisopropyl ether	6.684	45	402311	20.600	ug/l #	97
21) 1,1-Dichloroethane	6.584	63	234999	20.220	ug/l	98
22) cis-1,2-Dichloroethene	7.495	96	145050	20.812	ug/l	97
23) tert-Butyl Alcohol	5.537	59	100024m	110.130	ug/l	
24) Methyl tert-Butyl Ether	5.807	73	394132	20.944	ug/l	93
25) Chloroform	7.972	83	237205	19.868	ug/l	99
26) Cyclohexane	8.266	56	209895	19.781	ug/l #	93
29) 1,1-Dichloropropene	8.378	75	181761	19.607	ug/l	99
30) 2-Butanone	7.489	43	424577	100.389	ug/l	95
31) 2,2-Dichloropropane	7.501	77	186492	20.305	ug/l #	59
32) 1,1,1-Trichloroethane	8.178	97	210427	19.461	ug/l	96
33) Carbon Tetrachloride	8.372	117	184341	19.281	ug/l	98
34) Benzene	8.613	78	543116	19.111	ug/l	98
35) Methacrylonitrile	7.789	41	90042	18.920	ug/l	93
36) 1,2-Dichloroethane	8.672	62	184353	19.353	ug/l	99
37) Trichloroethene	9.360	130	135436	19.336	ug/l	98
38) Methylcyclohexane	9.607	83	226196	19.603	ug/l	98
39) 1,2-Dichloropropane	9.624	63	139759	19.140	ug/l	97
40) Dibromomethane	9.713	93	89685	19.279	ug/l	95
41) Bromodichloromethane	9.889	83	184885	19.393	ug/l	99
42) Vinyl Acetate	6.619	43	1266724	96.084	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	152351	17.852	ug/l	99
44) Isopropyl Acetate	8.695	43	261102	18.874	ug/l	90
45) 1,4-Dioxane	9.701	88	46522	399.746	ug/l #	93
46) Methyl methacrylate	9.683	41	126381	18.759	ug/l	87
47) n-amyl Acetate	12.495	43	220741m	19.607	ug/l	
48) t-1,3-Dichloropropene	10.836	75	194284	20.346	ug/l	96
49) cis-1,3-Dichloropropene	10.319	75	213740	19.708	ug/l #	89
50) 1,1,2-Trichloroethane	11.019	97	129254	18.966	ug/l	91
51) Ethyl methacrylate	10.877	69	197065	19.614	ug/l	88
52) 1,3-Dichloropropane	11.166	76	222757	18.924	ug/l	100
53) Dibromochloromethane	11.360	129	137584	19.789	ug/l	98
54) 1,2-Dibromoethane	11.471	107	128717	19.572	ug/l	98
55) 2-Chloroethyl vinyl ether	10.166	63	342985	97.367	ug/l	98
56) Bromoform	12.583	173	91267	19.622	ug/l	95
58) 4-Methyl-2-Pentanone	10.448	43	815495	94.378	ug/l #	89
59) 2-Hexanone	11.201	43	619039	100.850	ug/l #	89
61) Tetrachloroethene	11.107	164	133715	19.803	ug/l	92
62) Toluene	10.636	91	582759	19.772	ug/l	99
64) Chlorobenzene	11.895	112	352976	20.345	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.960	131	126415	19.400	ug/l	97
66) Ethyl Benzene	11.966	91	649706	20.304	ug/l	98
67) m/p-Xylenes	12.071	106	495892	40.912	ug/l	90
68) o-Xylene	12.401	106	237085	20.034	ug/l	94
69) Styrene	12.413	104	398227	20.749	ug/l	97
70) Isopropylbenzene	12.701	105	633400	20.571	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.942	83	178239	19.199	ug/l	100
72) 1,2,3-Trichloropropane	12.995	75	162247m	19.051	ug/l	
73) Bromobenzene	12.983	156	144817	20.842	ug/l	97
74) n-propylbenzene	13.036	91	762815	20.989	ug/l	99
75) 2-Chlorotoluene	13.130	91	458601	20.404	ug/l	98
76) 1,3,5-Trimethylbenzene	13.177	105	555619	20.848	ug/l	93
77) t-1,4-Dichloro-2-butene	12.742	75	55623	21.396	ug/l	96
78) 4-Chlorotoluene	13.224	91	451082	20.820	ug/l	94
79) tert-butylbenzene	13.442	119	460866	20.679	ug/l	94
80) 1,2,4-Trimethylbenzene	13.483	105	550344	21.013	ug/l	94
81) sec-Butylbenzene	13.618	105	678486	21.278	ug/l	100
82) p-Isopropyltoluene	13.730	119	563038	21.847	ug/l	98
83) 1,3-Dichlorobenzene	13.736	146	270355	21.029	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	270606	21.669	ug/l	96
85) n-Butylbenzene	14.060	91	498301	22.811	ug/l	99
86) Hexachloroethane	14.336	117	93286	20.273	ug/l	90
87) 1,2-Dichlorobenzene	14.107	146	261479	20.395	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.724	75	35382	19.567	ug/l	95
89) 1,2,4-Trichlorobenzene	15.395	180	155001	22.664	ug/l	98
90) Hexachlorobutadiene	15.506	225	82960	23.009	ug/l	95
91) Naphthalene	15.642	128	475373	21.915	ug/l	98
92) 1,2,3-Trichlorobenzene	15.842	180	154204	22.491	ug/l	97

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

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