

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042823\
 Data File : VN077498.D
 Acq On : 28 Apr 2023 11:57
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/29/2023
 Supervised By : Semsettin Yesilyurt 04/29/2023

Quant Time: Apr 28 16:08:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 28 16:05:06 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.819	128	66939	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	502001	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	546228	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.589	65	180377	29.777	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.267%		
60) 4-Bromofluorobenzene	12.854	95	292728	30.351	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.167%		
63) Toluene-d8	10.566	98	571384	29.732	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.100%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	168408	18.989	ug/l	99
3) Chloromethane	2.372	50	123699	19.266	ug/l	99
4) Vinyl Chloride	2.525	62	174555	19.430	ug/l	96
5) Bromomethane	2.960	94	137183	18.105	ug/l	98
6) Chloroethane	3.137	64	119505m	19.396	ug/l	
7) Trichlorofluoromethane	3.513	101	255949	19.353	ug/l	97
8) Diethyl Ether	3.972	74	89205	19.270	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.384	101	146045	19.373	ug/l	99
10) 1,1-Dichloroethene	4.354	96	137434	19.136	ug/l	95
11) Methyl Iodide	4.601	142	172280	19.418	ug/l	98
12) Methyl Acetate	5.031	43	206730	19.996	ug/l	96
13) Acrolein	4.190	56	124165	99.811	ug/l	100
14) Acrylonitrile	5.725	53	306773	96.010	ug/l	98
15) Acetone	4.442	58	107642	106.544	ug/l	95
16) Carbon Disulfide	4.731	76	340792	18.669	ug/l	100
17) Allyl chloride	5.037	41	147682	18.982	ug/l	93
18) Methylene Chloride	5.289	84	162635	19.312	ug/l	96
19) trans-1,2-Dichloroethene	5.795	96	153175	19.303	ug/l	96
20) Diisopropyl ether	6.678	45	358064	19.593	ug/l	96
21) 1,1-Dichloroethane	6.583	63	259128	19.274	ug/l	96
22) cis-1,2-Dichloroethene	7.495	96	182481	19.243	ug/l	99
23) tert-Butyl Alcohol	5.531	59	130856	94.038	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	472026	18.960	ug/l	99
25) Chloroform	7.972	83	301190	19.506	ug/l	99
26) Cyclohexane	8.260	56	213148	19.538	ug/l #	96
29) 1,1-Dichloropropene	8.377	75	213475	19.579	ug/l	100
30) 2-Butanone	7.495	43	401921	102.186	ug/l	99
31) 2,2-Dichloropropane	7.501	77	250779	19.443	ug/l	99
32) 1,1,1-Trichloroethane	8.178	97	280597	19.873	ug/l	98
33) Carbon Tetrachloride	8.366	117	238960	19.630	ug/l	98
34) Benzene	8.613	78	661248	19.844	ug/l	97
35) Methacrylonitrile	7.783	41	80642	19.708	ug/l	99
36) 1,2-Dichloroethane	8.677	62	230276	20.214	ug/l	100
37) Trichloroethene	9.354	130	165379	19.359	ug/l	92
38) Methylcyclohexane	9.607	83	281391	19.607	ug/l	97
39) 1,2-Dichloropropane	9.624	63	150428	19.547	ug/l	98
40) Dibromomethane	9.713	93	118270	19.334	ug/l	97
41) Bromodichloromethane	9.889	83	236879	19.513	ug/l	95
42) Vinyl Acetate	6.613	43	1119715	98.620	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	158128m	20.195	ug/l	
44) Isopropyl Acetate	8.695	43	276521	20.152	ug/l	96
45) 1,4-Dioxane	9.695	88	65654	394.871	ug/l	96
46) Methyl methacrylate	9.683	41	122194	19.665	ug/l	97
47) n-amyl Acetate	12.495	43	214300	19.214	ug/l	98
48) t-1,3-Dichloropropene	10.842	75	242530	19.520	ug/l	100
49) cis-1,3-Dichloropropene	10.313	75	265260	19.744	ug/l	95
50) 1,1,2-Trichloroethane	11.019	97	172834	19.768	ug/l	97
51) Ethyl methacrylate	10.877	69	237287	19.564	ug/l	95
52) 1,3-Dichloropropane	11.166	76	279657	19.763	ug/l	99
53) Dibromochloromethane	11.360	129	179798	19.858	ug/l	100
54) 1,2-Dibromoethane	11.471	107	168202	18.977	ug/l	94
55) 2-Chloroethyl vinyl ether	10.160	63	391244	99.182	ug/l	99
56) Bromoform	12.583	173	109924	19.424	ug/l #	95
58) 4-Methyl-2-Pentanone	10.448	43	794795	97.415	ug/l	99
59) 2-Hexanone	11.195	43	594572	98.475	ug/l	98
61) Tetrachloroethene	11.107	164	130703	19.489	ug/l	94
62) Toluene	10.630	91	744136	19.347	ug/l	99
64) Chlorobenzene	11.895	112	451523	19.343	ug/l	91
65) 1,1,1,2-Tetrachloroethane	11.960	131	163201	19.497	ug/l	97
66) Ethyl Benzene	11.966	91	802995	19.118	ug/l	97
67) m/p-Xylenes	12.071	106	636100	38.791	ug/l	98
68) o-Xylene	12.401	106	313166	19.389	ug/l	100
69) Styrene	12.413	104	489482	19.248	ug/l	98
70) Isopropylbenzene	12.695	105	806987	19.435	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.942	83	238887	19.031	ug/l	98
72) 1,2,3-Trichloropropane	12.995	75	204547m	19.360	ug/l	
73) Bromobenzene	12.983	156	171392	19.501	ug/l	99
74) n-propylbenzene	13.036	91	880647	19.077	ug/l	99
75) 2-Chlorotoluene	13.130	91	544042	19.149	ug/l	100
76) 1,3,5-Trimethylbenzene	13.177	105	625788	19.609	ug/l	97
77) t-1,4-Dichloro-2-butene	12.742	75	70735	19.754	ug/l	93
78) 4-Chlorotoluene	13.224	91	522544	19.556	ug/l	99
79) tert-butylbenzene	13.442	119	584529	19.899	ug/l	98
80) 1,2,4-Trimethylbenzene	13.483	105	588834	19.874	ug/l	99
81) sec-Butylbenzene	13.618	105	809688	19.492	ug/l	99
82) p-Isopropyltoluene	13.730	119	630584	19.380	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	302084	19.132	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	294570	18.869	ug/l	99
85) n-Butylbenzene	14.059	91	481373	18.717	ug/l	98
86) Hexachloroethane	14.336	117	126071	19.267	ug/l	95
87) 1,2-Dichlorobenzene	14.107	146	306920	19.422	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.718	75	43517	18.484	ug/l	97
89) 1,2,4-Trichlorobenzene	15.395	180	71959	15.585	ug/l	96
90) Hexachlorobutadiene	15.506	225	63192	18.803	ug/l	99
91) Naphthalene	15.648	128	253298	14.677	ug/l	99
92) 1,2,3-Trichlorobenzene	15.842	180	64169	14.474	ug/l	98

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

