

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020923\
 Data File : VN076594.D
 Acq On : 09 Feb 2023 17:50
 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 02/10/2023
 Supervised By : Semsettin Yesilyurt 02/10/2023

Quant Time: Feb 10 05:13:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020923W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 10 05:08:19 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.822	128	28281	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.104	114	201001	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.868	117	213891	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.580	65	99436	29.832	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.433%		
60) 4-Bromofluorobenzene	12.851	95	135945	28.153	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	93.833%		
63) Toluene-d8	10.569	98	239351	30.476	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.600%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.140	85	82531	21.084	ug/l	100
3) Chloromethane	2.375	50	84680	17.992	ug/l	96
4) Vinyl Chloride	2.528	62	71798	17.471	ug/l	99
5) Bromomethane	2.969	94	35498	17.206	ug/l	93
6) Chloroethane	3.128	64	39852	18.721	ug/l	97
7) Trichlorofluoromethane	3.510	101	137878	19.758	ug/l	98
8) Diethyl Ether	3.975	74	45007m	20.335	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.387	101	67038	19.957	ug/l	100
10) 1,1-Dichloroethene	4.357	96	65336	20.698	ug/l #	82
11) Methyl Iodide	4.604	142	92666	20.189	ug/l	83
12) Methyl Acetate	5.034	43	129701	19.580	ug/l #	90
13) Acrolein	4.193	56	86438	101.875	ug/l	99
14) Acrylonitrile	5.734	53	191931	98.895	ug/l	96
15) Acetone	4.434	58	56221	100.385	ug/l	83
16) Carbon Disulfide	4.728	76	175396	20.217	ug/l	100
17) Allyl chloride	5.040	41	121450	19.957	ug/l	90
18) Methylene Chloride	5.287	84	76763	20.550	ug/l #	86
19) trans-1,2-Dichloroethene	5.798	96	68303	21.054	ug/l	88
20) Diisopropyl ether	6.686	45	268960	19.362	ug/l	92
21) 1,1-Dichloroethane	6.586	63	145621	19.224	ug/l	99
22) cis-1,2-Dichloroethene	7.498	96	79579	20.480	ug/l	92
23) tert-Butyl Alcohol	5.528	59	67776	104.071	ug/l #	100
24) Methyl tert-Butyl Ether	5.810	73	238543	20.975	ug/l	94
25) Chloroform	7.975	83	147590	19.690	ug/l	94
26) Cyclohexane	8.263	56	127547	18.975	ug/l #	95
29) 1,1-Dichloropropene	8.380	75	104697	20.123	ug/l	96
30) 2-Butanone	7.492	43	288581	102.759	ug/l	95
31) 2,2-Dichloropropane	7.492	77	112162	20.764	ug/l	94
32) 1,1,1-Trichloroethane	8.180	97	130140	20.161	ug/l	98
33) Carbon Tetrachloride	8.369	117	113356m	20.354	ug/l	
34) Benzene	8.610	78	309896	19.385	ug/l #	92
35) Methacrylonitrile	7.786	41	63177	19.565	ug/l	88
36) 1,2-Dichloroethane	8.675	62	124003	20.228	ug/l	97
37) Trichloroethene	9.357	130	68184	20.832	ug/l	81
38) Methylcyclohexane	9.604	83	124363	21.596	ug/l	92
39) 1,2-Dichloropropane	9.622	63	78409	20.553	ug/l	99
40) Dibromomethane	9.710	93	52695	20.996	ug/l	97
41) Bromodichloromethane	9.892	83	113622	21.531	ug/l #	96
42) Vinyl Acetate	6.616	43	887700m	97.235	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.569	43	119515	20.873	ug/l	97
44) Isopropyl Acetate	8.692	43	183300	19.459	ug/l	99
45) 1,4-Dioxane	9.698	88	34293	446.597	ug/l	93
46) Methyl methacrylate	9.686	41	91729	20.197	ug/l	90
47) n-amyl Acetate	12.498	43	162046	20.239	ug/l	92
48) t-1,3-Dichloropropene	10.839	75	111959	21.077	ug/l	94
49) cis-1,3-Dichloropropene	10.316	75	123129	20.968	ug/l #	89
50) 1,1,2-Trichloroethane	11.016	97	71186	20.885	ug/l	96
51) Ethyl methacrylate	10.874	69	113529	20.977	ug/l	88
52) 1,3-Dichloropropane	11.163	76	132852	20.910	ug/l	99
53) Dibromochloromethane	11.363	129	75261	21.250	ug/l	98
54) 1,2-Dibromoethane	11.474	107	73522	21.317	ug/l	97
55) 2-Chloroethyl vinyl ether	10.163	63	251351	101.675	ug/l	100
56) Bromoform	12.580	173	46895	20.559	ug/l #	99
58) 4-Methyl-2-Pentanone	10.445	43	596714	99.797	ug/l	96
59) 2-Hexanone	11.198	43	436157	100.326	ug/l	94
61) Tetrachloroethene	11.110	164	57692	21.101	ug/l	95
62) Toluene	10.633	91	318585	20.090	ug/l	99
64) Chlorobenzene	11.892	112	189405	20.618	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.963	131	69221	19.876	ug/l	98
66) Ethyl Benzene	11.968	91	357140	20.543	ug/l	100
67) m/p-Xylenes	12.074	106	265540	40.709	ug/l	93
68) o-Xylene	12.404	106	133202	20.728	ug/l	95
69) Styrene	12.416	104	208492	20.440	ug/l	94
70) Isopropylbenzene	12.698	105	341779	19.847	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.939	83	110357	18.381	ug/l	98
72) 1,2,3-Trichloropropane	12.998	75	95748m	17.512	ug/l	
73) Bromobenzene	12.986	156	74255	18.172	ug/l	98
74) n-propylbenzene	13.039	91	408394	18.490	ug/l	99
75) 2-Chlorotoluene	13.127	91	256782	18.482	ug/l	95
76) 1,3,5-Trimethylbenzene	13.174	105	300092	18.661	ug/l	95
77) t-1,4-Dichloro-2-butene	12.733	75	30254	18.291	ug/l	81
78) 4-Chlorotoluene	13.221	91	249695	17.874	ug/l	94
79) tert-butylbenzene	13.439	119	258980	18.973	ug/l	91
80) 1,2,4-Trimethylbenzene	13.486	105	295276	18.618	ug/l	96
81) sec-Butylbenzene	13.621	105	353206	18.480	ug/l	99
82) p-Isopropyltoluene	13.733	119	290718	18.930	ug/l	96
83) 1,3-Dichlorobenzene	13.733	146	138960	18.385	ug/l	98
84) 1,4-Dichlorobenzene	13.815	146	132391	17.557	ug/l	97
85) n-Butylbenzene	14.057	91	240887	16.891	ug/l	99
86) Hexachloroethane	14.339	117	52010	17.442	ug/l	93
87) 1,2-Dichlorobenzene	14.110	146	138139	16.650	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.721	75	24567	20.073	ug/l #	80
89) 1,2,4-Trichlorobenzene	15.392	180	68534	19.806	ug/l	97
90) Hexachlorobutadiene	15.504	225	33988	20.332	ug/l	98
91) Naphthalene	15.645	128	241619	20.466	ug/l	99
92) 1,2,3-Trichlorobenzene	15.845	180	69979	20.263	ug/l	99

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

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