

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091321\
 Data File : VN068455.D
 Acq On : 13 Sep 2021 14:04
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/14/2021
 Supervised By : Mahesh Dadoda 09/14/2021

Quant Time: Sep 14 04:10:04 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N091321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Sep 14 04:08:29 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.665	128	95791	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	508179	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	469162	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	181624	32.105	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 107.033%			
60) 4-Bromofluorobenzene	12.733	95	200011	29.910	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.700%			
63) Toluene-d8	10.443	98	625413	30.642	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.133%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.073	85	88258	20.228	ug/l	100
3) Chloromethane	2.303	50	85304	20.211	ug/l	100
4) Vinyl Chloride	2.443	62	140144	20.951	ug/l	100
5) Bromomethane	2.861	94	139939	21.061	ug/l	100
6) Chloroethane	3.022	64	99439	20.827	ug/l	100
7) Trichlorofluoromethane	3.376	101	165051	20.017	ug/l	100
8) Diethyl Ether	3.829	74	50853	19.553	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.216	101	91643	19.512	ug/l	100
10) 1,1-Dichloroethene	4.186	96	85173	19.512	ug/l	100
11) Methyl Iodide	4.430	142	118156	17.433	ug/l	100
12) Methyl Acetate	4.859	43	89402	19.677	ug/l	100
13) Acrolein	4.041	56	33987m	93.074	ug/l	
14) Acrylonitrile	5.554	53	191572	97.363	ug/l	100
15) Acetone	4.291	58	54848	102.288	ug/l	100
16) Carbon Disulfide	4.537	76	217284	19.288	ug/l	100
17) Allyl chloride	4.846	41	106483	19.536	ug/l	100
18) Methylene Chloride	5.101	84	99510	19.043	ug/l	100
19) trans-1,2-Dichloroethene	5.599	96	94449	19.285	ug/l	100
20) Diisopropyl ether	6.495	45	240625	19.902	ug/l	100
21) 1,1-Dichloroethane	6.393	63	158573	19.734	ug/l	100
22) cis-1,2-Dichloroethene	7.332	96	112420	19.125	ug/l	100
23) tert-Butyl Alcohol	5.369	59	76703	96.466	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	286959	19.306	ug/l	100
25) Chloroform	7.820	83	192276	19.994	ug/l	100
26) Cyclohexane	8.099	56	133131	19.597	ug/l #	100
29) 1,1-Dichloropropene	8.222	75	132027	19.391	ug/l	100
30) 2-Butanone	7.337	43	253557	97.571	ug/l	100
31) 2,2-Dichloropropane	7.327	77	152131	19.416	ug/l	100
32) 1,1,1-Trichloroethane	8.016	97	178126	19.265	ug/l	100
33) Carbon Tetrachloride	8.209	117	163632	18.933	ug/l	100
34) Benzene	8.461	78	401969	19.360	ug/l	100
35) Methacrylonitrile	7.640	41	49670	19.818	ug/l	100
36) 1,2-Dichloroethane	8.534	62	139885	20.010	ug/l	100
37) Trichloroethene	9.217	130	123084	18.444	ug/l	100
38) Methylcyclohexane	9.464	83	165176	18.873	ug/l	100
39) 1,2-Dichloropropane	9.491	63	93873	19.210	ug/l	100
40) Dibromomethane	9.579	93	77679	19.348	ug/l	100
41) Bromodichloromethane	9.765	83	148903	19.190	ug/l	100
42) Vinyl Acetate	6.436	43	928231	99.418	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.415	43	104691	18.569	ug/l #	82
44) Isopropyl Acetate	8.563	43	185334	19.791	ug/l	100
45) 1,4-Dioxane	9.569	88	36338	383.019	ug/l	100
46) Methyl methacrylate	9.561	41	71165	18.752	ug/l	100
47) n-amyl Acetate	12.390	43	117583	17.847	ug/l	100
48) t-1,3-Dichloropropene	10.722	75	144515	18.395	ug/l	100
49) cis-1,3-Dichloropropene	10.191	75	159106	18.844	ug/l	100
50) 1,1,2-Trichloroethane	10.899	97	110686	19.077	ug/l	100
51) Ethyl methacrylate	10.762	69	137540	18.462	ug/l	100
52) 1,3-Dichloropropane	11.047	76	167168	19.374	ug/l	100
53) Dibromochloromethane	11.242	129	130780	18.330	ug/l	100
54) 1,2-Dibromoethane	11.347	107	116476	18.718	ug/l	100
55) 2-Chloroethyl vinyl ether	10.043	63	98470	78.077	ug/l	100
56) Bromoform	12.463	173	97295	16.978	ug/l #	100
58) 4-Methyl-2-Pentanone	10.333	43	545660	98.801	ug/l	100
59) 2-Hexanone	11.089	43	371029	96.934	ug/l	100
61) Tetrachloroethene	10.979	164	129562	19.206	ug/l	100
62) Toluene	10.507	91	473382	19.171	ug/l	100
64) Chlorobenzene	11.773	112	306869	18.843	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.843	131	124814	18.779	ug/l	100
66) Ethyl Benzene	11.848	91	501360	18.682	ug/l	100
67) m/p-Xylenes	11.956	106	422515	38.195	ug/l	100
68) o-Xylene	12.283	106	204219	18.698	ug/l	100
69) Styrene	12.296	104	326638	18.861	ug/l	100
70) Isopropylbenzene	12.581	105	523502	18.878	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.830	83	149151	19.760	ug/l	100
72) 1,2,3-Trichloropropane	12.884	75	125454m	20.673	ug/l	
73) Bromobenzene	12.865	156	141398	17.962	ug/l	100
74) n-propylbenzene	12.924	91	563881	18.855	ug/l	100
75) 2-Chlorotoluene	13.010	91	342390	19.024	ug/l	100
76) 1,3,5-Trimethylbenzene	13.061	105	436781	18.866	ug/l	100
77) t-1,4-Dichloro-2-butene	12.629	75	37451	18.061	ug/l	100
78) 4-Chlorotoluene	13.106	91	325684	18.856	ug/l	100
79) tert-butylbenzene	13.326	119	399683	18.791	ug/l	100
80) 1,2,4-Trimethylbenzene	13.372	105	422127m	15.603	ug/l	
81) sec-Butylbenzene	13.506	105	527809	18.773	ug/l	100
82) p-Isopropyltoluene	13.619	119	437442	18.140	ug/l	100
83) 1,3-Dichlorobenzene	13.619	146	247445	18.084	ug/l	100
84) 1,4-Dichlorobenzene	13.696	146	232557	17.742	ug/l	100
85) n-Butylbenzene	13.946	91	297507	17.344	ug/l	100
86) Hexachloroethane	14.211	117	82053	18.523	ug/l	100
87) 1,2-Dichlorobenzene	13.991	146	238893	18.169	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.606	75	23322	18.272	ug/l	100
89) 1,2,4-Trichlorobenzene	15.268	180	97059	15.278	ug/l	100
90) Hexachlorobutadiene	15.373	225	67640	16.834	ug/l	100
91) Naphthalene	15.509	128	207178	15.117	ug/l	100
92) 1,2,3-Trichlorobenzene	15.702	180	95913	16.031	ug/l	100

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

