

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100821\
 Data File : VN068856.D
 Acq On : 8 Oct 2021 18:35
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda

10/13/2021 12:38:08 PM

Quant Time: Oct 11 04:55:12 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092821W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 29 08:56:32 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	63834	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	345266	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	317307	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	154330	31.37	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	104.57%		
60) 4-Bromofluorobenzene	12.734	95	139151	28.07	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	93.57%		
63) Toluene-d8	10.443	98	453921	31.65	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	105.50%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.075	85	44914	15.87	ug/l	99
3) Chloromethane	2.303	50	65453	18.07	ug/l	99
4) Vinyl Chloride	2.443	62	131858	18.67	ug/l	97
5) Bromomethane	2.861	94	122939	17.93	ug/l	99
6) Chloroethane	3.019	64	114552	19.95	ug/l	97
7) Trichlorofluoromethane	3.376	101	114546	19.44	ug/l	99
8) Diethyl Ether	3.829	74	37644	18.66	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.221	101	64640	18.95	ug/l	98
10) 1,1-Dichloroethene	4.183	96	56341m	17.90	ug/l	
11) Methyl Iodide	4.428	142	78587	20.70	ug/l	98
12) Methyl Acetate	4.859	43	107774	19.83	ug/l	100
13) Acrolein	4.052	56	18008m	78.91	ug/l	
14) Acrylonitrile	5.557	53	168136	96.31	ug/l	98
15) Acetone	4.288	58	43388	89.72	ug/l	93
16) Carbon Disulfide	4.537	76	138058	16.20	ug/l	100
17) Allyl chloride	4.843	41	89680	17.93	ug/l	93
18) Methylene Chloride	5.106	84	79593m	20.13	ug/l	
19) trans-1,2-Dichloroethene	5.605	96	65182	17.52	ug/l	97
20) Diisopropyl ether	6.498	45	216788	18.64	ug/l	97
21) 1,1-Dichloroethane	6.391	63	130232	19.29	ug/l	97
22) cis-1,2-Dichloroethene	7.327	96	81751	18.06	ug/l	98
23) tert-Butyl Alcohol	5.366	59	62076	95.83	ug/l #	100
24) Methyl tert-Butyl Ether	5.621	73	233471m	18.88	ug/l	
25) Chloroform	7.823	83	155845	19.58	ug/l	98
26) Cyclohexane	8.099	56	97674	16.62	ug/l #	100
29) 1,1-Dichloropropene	8.225	75	100489	18.32	ug/l	96
30) 2-Butanone	7.337	43	235483	95.55	ug/l	99
31) 2,2-Dichloropropane	7.327	77	118925	18.86	ug/l #	79
32) 1,1,1-Trichloroethane	8.016	97	136411	19.40	ug/l	98
33) Carbon Tetrachloride	8.209	117	117920	18.87	ug/l	97
34) Benzene	8.461	78	311011	19.11	ug/l	97
35) Methacrylonitrile	7.635	41	44247	17.92	ug/l	95
36) 1,2-Dichloroethane	8.531	62	123883	20.34	ug/l	99
37) Trichloroethene	9.217	130	80716	18.75	ug/l	94
38) Methylcyclohexane	9.464	83	113490	16.71	ug/l	98
39) 1,2-Dichloropropane	9.491	63	79519	19.72	ug/l	96
40) Dibromomethane	9.580	93	60703	19.07	ug/l	99
41) Bromodichloromethane	9.765	83	120407	19.30	ug/l	98
42) Vinyl Acetate	6.436	43	859574	94.19	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.413	43	95103	19.30	ug/l	100
44) Isopropyl Acetate	8.563	43	171509	19.22	ug/l	98
45) 1,4-Dioxane	9.569	88	30314	419.62	ug/l	97
46) Methyl methacrylate	9.561	41	68502	17.36	ug/l	98
47) n-amyl Acetate	12.390	43	123690	16.37	ug/l	99
48) t-1,3-Dichloropropene	10.719	75	116147	17.13	ug/l	96
49) cis-1,3-Dichloropropene	10.191	75	126469	18.24	ug/l	100
50) 1,1,2-Trichloroethane	10.902	97	83977	19.04	ug/l	100
51) Ethyl methacrylate	10.762	69	111686	16.81	ug/l	97
52) 1,3-Dichloropropane	11.047	76	133125	18.65	ug/l	100
53) Dibromochloromethane	11.240	129	91598	18.28	ug/l	99
54) 1,2-Dibromoethane	11.347	107	82862	17.91	ug/l	94
55) 2-Chloroethyl vinyl ether	10.044	63	146438	78.96	ug/l	99
56) Bromoform	12.463	173	59234	16.40	ug/l #	98
58) 4-Methyl-2-Pentanone	10.333	43	528032	98.59	ug/l	99
59) 2-Hexanone	11.087	43	367450	94.19	ug/l	98
61) Tetrachloroethene	10.980	164	72734	19.56	ug/l	97
62) Toluene	10.508	91	360696	19.01	ug/l	99
64) Chlorobenzene	11.773	112	214449	18.42	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.843	131	85775	19.00	ug/l	99
66) Ethyl Benzene	11.846	91	383476	17.94	ug/l	99
67) m/p-Xylenes	11.956	106	290255	35.16	ug/l	98
68) o-Xylene	12.283	106	142679	17.56	ug/l	99
69) Styrene	12.296	104	228378	17.03	ug/l	98
70) Isopropylbenzene	12.583	105	377541	17.52	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.830	83	122454	20.17	ug/l	97
72) 1,2,3-Trichloropropane	12.881	75	97693m	19.86	ug/l	
73) Bromobenzene	12.862	156	85060	17.44	ug/l	98
74) n-propylbenzene	12.924	91	428998	17.37	ug/l	100
75) 2-Chlorotoluene	13.010	91	255087	17.69	ug/l	100
76) 1,3,5-Trimethylbenzene	13.061	105	313594	17.62	ug/l	99
77) t-1,4-Dichloro-2-butene	12.629	75	30934	16.12	ug/l	91
78) 4-Chlorotoluene	13.109	91	243259	17.03	ug/l	100
79) tert-butylbenzene	13.326	119	269018	17.32	ug/l	99
80) 1,2,4-Trimethylbenzene	13.372	105	306272m	17.36	ug/l	
81) sec-Butylbenzene	13.503	105	382645	17.18	ug/l	99
82) p-Isopropyltoluene	13.619	119	302489	16.40	ug/l	99
83) 1,3-Dichlorobenzene	13.619	146	150568	16.64	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	146339	17.00	ug/l	99
85) n-Butylbenzene	13.946	91	238841	15.74	ug/l	97
86) Hexachloroethane	14.214	117	62218	17.92	ug/l	99
87) 1,2-Dichlorobenzene	13.991	146	153642	18.36	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.606	75	20346	18.74	ug/l	98
89) 1,2,4-Trichlorobenzene	15.265	180	61746	15.02	ug/l	96
90) Hexachlorobutadiene	15.373	225	36615	17.87	ug/l	99
91) Naphthalene	15.509	128	154744	13.34	ug/l	98
92) 1,2,3-Trichlorobenzene	15.703	180	61709	15.66	ug/l	98

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

