

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030823\
 Data File : VN076885.D
 Acq On : 08 Mar 2023 18:47
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/09/2023
 Supervised By : Mahesh Dadoda 03/09/2023

Quant Time: Mar 09 03:47:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 09 03:46:27 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.825	128	52207	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	381366	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	407422	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	146755	30.492	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.633%			
60) 4-Bromofluorobenzene	12.848	95	233652	32.119	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 107.067%			
63) Toluene-d8	10.571	98	443277	31.049	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.500%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.143	85	122055	21.025	ug/l	98
3) Chloromethane	2.378	50	108638	16.260	ug/l	96
4) Vinyl Chloride	2.531	62	100281	14.442	ug/l	95
5) Bromomethane	2.984	94	61746	12.821	ug/l	94
6) Chloroethane	3.137	64	57760	12.987	ug/l	98
7) Trichlorofluoromethane	3.519	101	185466	19.790	ug/l	100
8) Diethyl Ether	3.978	74	69039	18.754	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.390	101	106020	18.816	ug/l	95
10) 1,1-Dichloroethene	4.360	96	102638	19.323	ug/l	95
11) Methyl Iodide	4.613	142	123257	19.238	ug/l	96
12) Methyl Acetate	5.042	43	168981	16.256	ug/l	96
13) Acrolein	4.195	56	122917	94.570	ug/l	99
14) Acrylonitrile	5.731	53	274566	85.210	ug/l	98
15) Acetone	4.442	58	75903	75.288	ug/l	82
16) Carbon Disulfide	4.731	76	281952	18.987	ug/l	99
17) Allyl chloride	5.048	41	149831	16.348	ug/l	94
18) Methylene Chloride	5.289	84	117593	17.835	ug/l #	85
19) trans-1,2-Dichloroethene	5.801	96	106513	18.152	ug/l	98
20) Diisopropyl ether	6.683	45	353591	16.441	ug/l	93
21) 1,1-Dichloroethane	6.578	63	203847	17.753	ug/l	99
22) cis-1,2-Dichloroethene	7.495	96	125743	18.822	ug/l	96
23) tert-Butyl Alcohol	5.525	59	80139	86.564	ug/l #	100
24) Methyl tert-Butyl Ether	5.813	73	336162	18.521	ug/l	92
25) Chloroform	7.978	83	207772	18.449	ug/l	100
26) Cyclohexane	8.266	56	191675	18.541	ug/l #	94
29) 1,1-Dichloropropene	8.383	75	153568	17.631	ug/l	97
30) 2-Butanone	7.489	43	351846	72.664	ug/l	95
31) 2,2-Dichloropropane	7.507	77	154428	17.025	ug/l #	63
32) 1,1,1-Trichloroethane	8.172	97	181533	17.870	ug/l	97
33) Carbon Tetrachloride	8.372	117	158139	17.912	ug/l	96
34) Benzene	8.613	78	471829	17.031	ug/l	97
35) Methacrylonitrile	7.789	41	77523	14.426	ug/l	93
36) 1,2-Dichloroethane	8.677	62	158132	17.044	ug/l	98
37) Trichloroethene	9.360	130	117261	18.015	ug/l	100
38) Methylcyclohexane	9.607	83	194065	17.571	ug/l	98
39) 1,2-Dichloropropane	9.630	63	124654	17.369	ug/l	98
40) Dibromomethane	9.713	93	78488	17.163	ug/l	95
41) Bromodichloromethane	9.889	83	160359	17.423	ug/l	98
42) Vinyl Acetate	6.619	43	1098072	76.709	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030823\
 Data File : VN076885.D
 Acq On : 08 Mar 2023 18:47
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/09/2023
 Supervised By : Mahesh Dadoda 03/09/2023

Quant Time: Mar 09 03:47:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 09 03:46:27 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	143426	15.366	ug/l #	80
44) Isopropyl Acetate	8.695	43	233244	15.096	ug/l	93
45) 1,4-Dioxane	9.695	88	39518	304.460	ug/l	91
46) Methyl methacrylate	9.683	41	114458	16.069	ug/l	90
47) n-amyl Acetate	12.495	43	183372m	13.720	ug/l	
48) t-1,3-Dichloropropene	10.836	75	156046	16.799	ug/l	100
49) cis-1,3-Dichloropropene	10.319	75	180299	16.920	ug/l	90
50) 1,1,2-Trichloroethane	11.018	97	111617	16.779	ug/l	96
51) Ethyl methacrylate	10.877	69	168376	17.412	ug/l	87
52) 1,3-Dichloropropane	11.166	76	196524	17.180	ug/l	98
53) Dibromochloromethane	11.360	129	115179	16.994	ug/l	98
54) 1,2-Dibromoethane	11.471	107	108921	16.922	ug/l	98
55) 2-Chloroethyl vinyl ether	10.166	63	297999	72.197	ug/l	98
56) Bromoform	12.583	173	77041	16.646	ug/l	98
58) 4-Methyl-2-Pentanone	10.448	43	740195	78.835	ug/l #	90
59) 2-Hexanone	11.201	43	527401	76.230	ug/l	90
61) Tetrachloroethene	11.107	164	114268	21.168	ug/l	92
62) Toluene	10.630	91	500143	17.625	ug/l	99
64) Chlorobenzene	11.895	112	294050	17.575	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.960	131	108863	17.629	ug/l	97
66) Ethyl Benzene	11.965	91	544990	18.007	ug/l	100
67) m/p-Xylenes	12.077	106	421499	36.030	ug/l	93
68) o-Xylene	12.401	106	203153	17.648	ug/l	97
69) Styrene	12.413	104	333462	18.024	ug/l	98
70) Isopropylbenzene	12.701	105	531875	18.053	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.942	83	157009	16.593	ug/l	97
72) 1,2,3-Trichloropropane	12.995	75	140835m	16.562	ug/l	
73) Bromobenzene	12.983	156	116610	17.240	ug/l	91
74) n-propylbenzene	13.036	91	625826	17.786	ug/l	100
75) 2-Chlorotoluene	13.130	91	384021	18.216	ug/l	96
76) 1,3,5-Trimethylbenzene	13.177	105	460363	18.588	ug/l	94
77) t-1,4-Dichloro-2-butene	12.742	75	44409	16.563	ug/l	92
78) 4-Chlorotoluene	13.224	91	368035	18.227	ug/l	94
79) tert-butylbenzene	13.442	119	378978	17.549	ug/l	93
80) 1,2,4-Trimethylbenzene	13.483	105	456895	18.688	ug/l	96
81) sec-Butylbenzene	13.618	105	552967	17.776	ug/l	100
82) p-Isopropyltoluene	13.730	119	451112	17.911	ug/l	98
83) 1,3-Dichlorobenzene	13.736	146	218958	17.041	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	211705	16.807	ug/l	95
85) n-Butylbenzene	14.059	91	370181	17.269	ug/l	98
86) Hexachloroethane	14.336	117	76958	16.009	ug/l	94
87) 1,2-Dichlorobenzene	14.107	146	219924	17.111	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.718	75	29568	16.512	ug/l	96
89) 1,2,4-Trichlorobenzene	15.395	180	113685	17.124	ug/l	98
90) Hexachlorobutadiene	15.506	225	60749	18.738	ug/l	96
91) Naphthalene	15.642	128	368049	17.290	ug/l	98
92) 1,2,3-Trichlorobenzene	15.842	180	117367	17.385	ug/l	97

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

