

Supplementary Material

Steroids Produced by *Cladosporium Anthropophilum*, an Endophytic Fungus, Isolated from *Avicennia Marina* (Forssk.) Vierh and Their Antibacterial Activity

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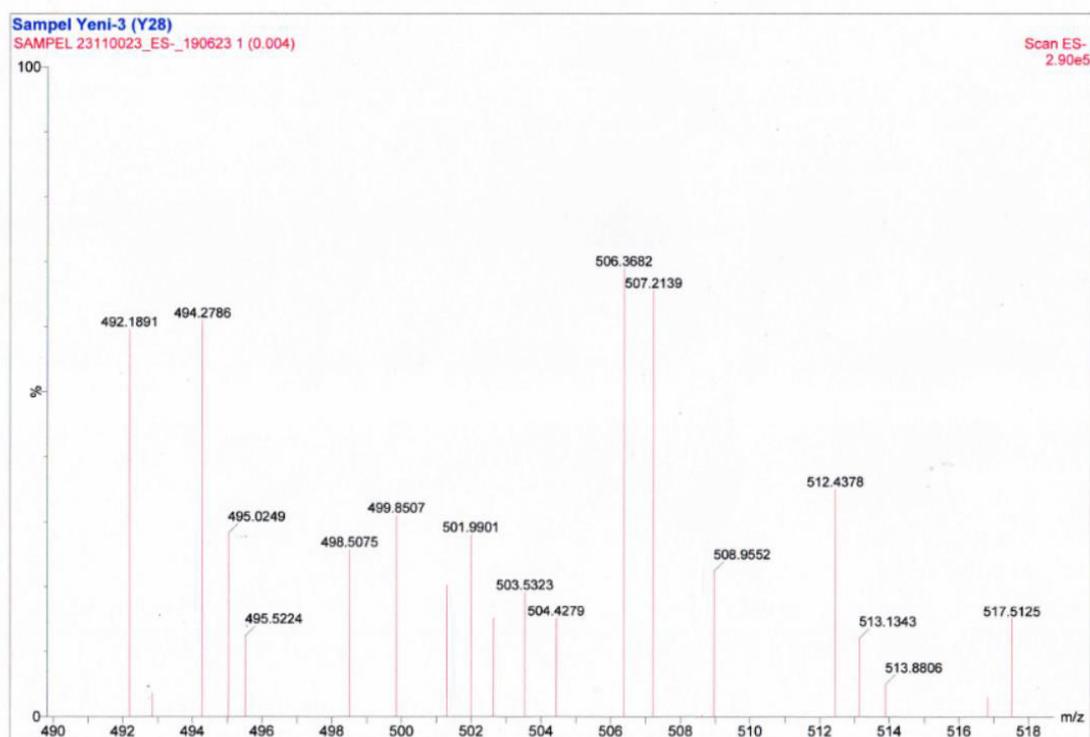


Figure S1 Mass Spectrum of 1.

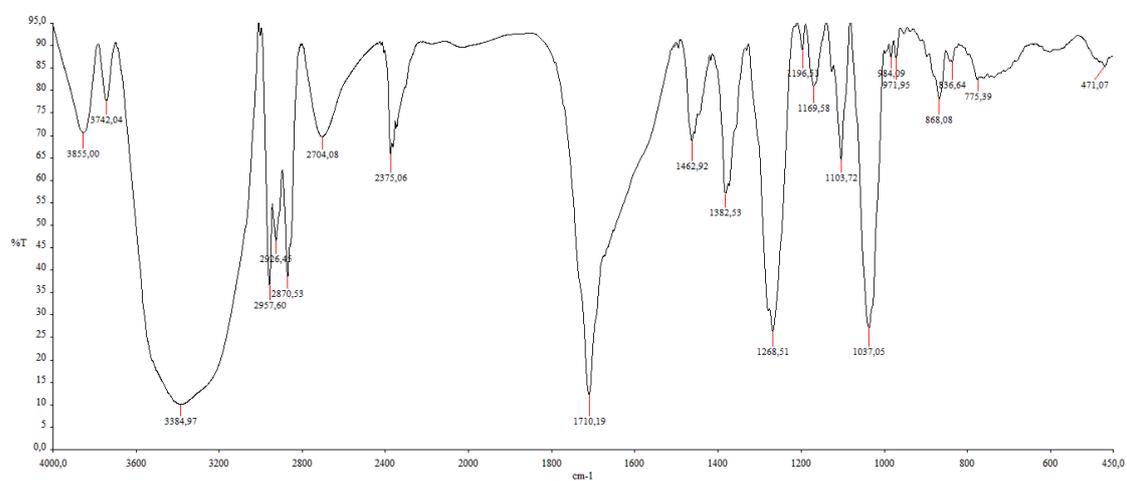


Figure S2 FTIR Spectrum of 1.

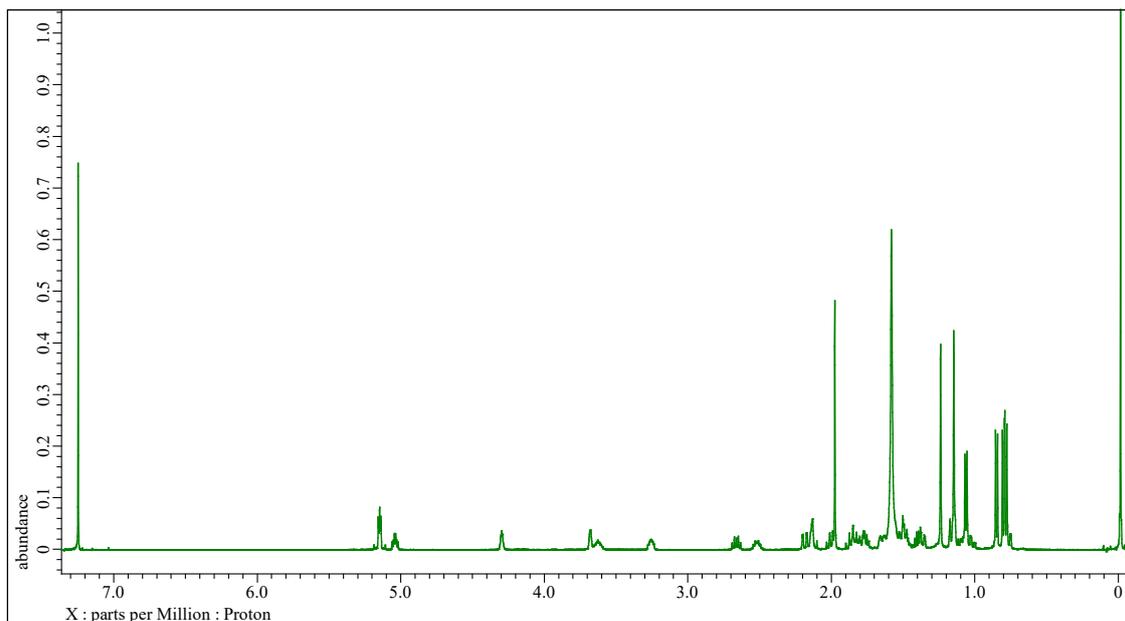


Figure S3 ^1H -NMR Spectrum of **1** (500 MHz in CDCl_3).

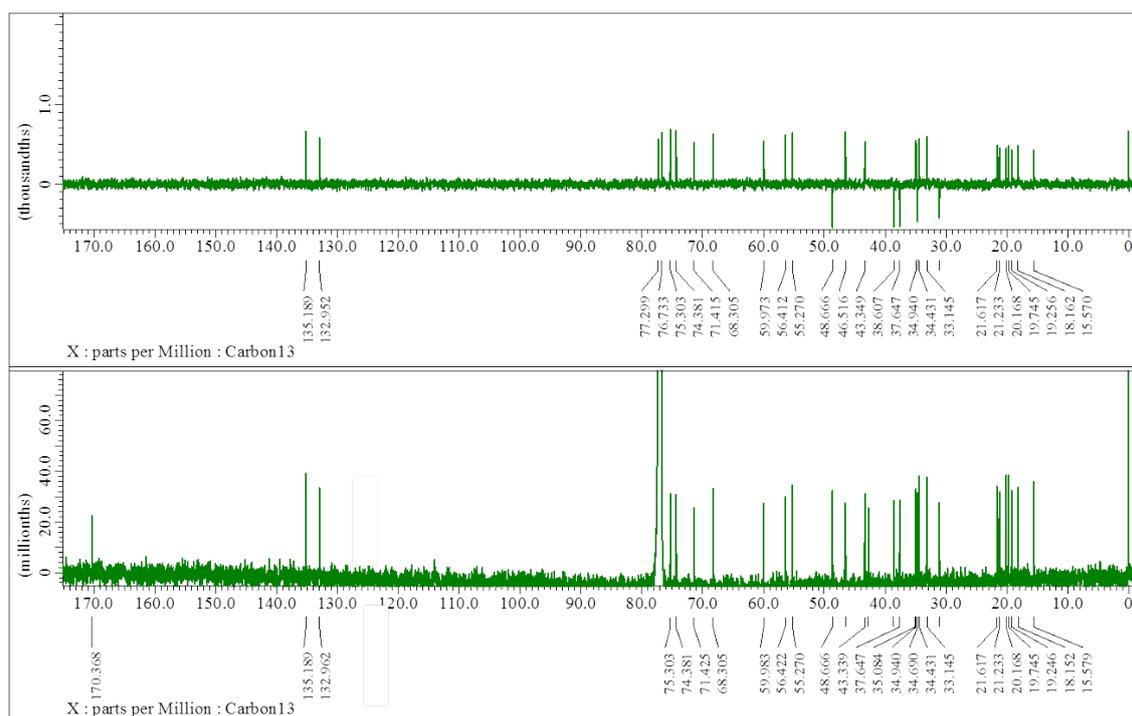


Figure S4 ^{13}C -NMR and DEPT-135° Spectrum of **1** (125 MHz in CDCl_3).

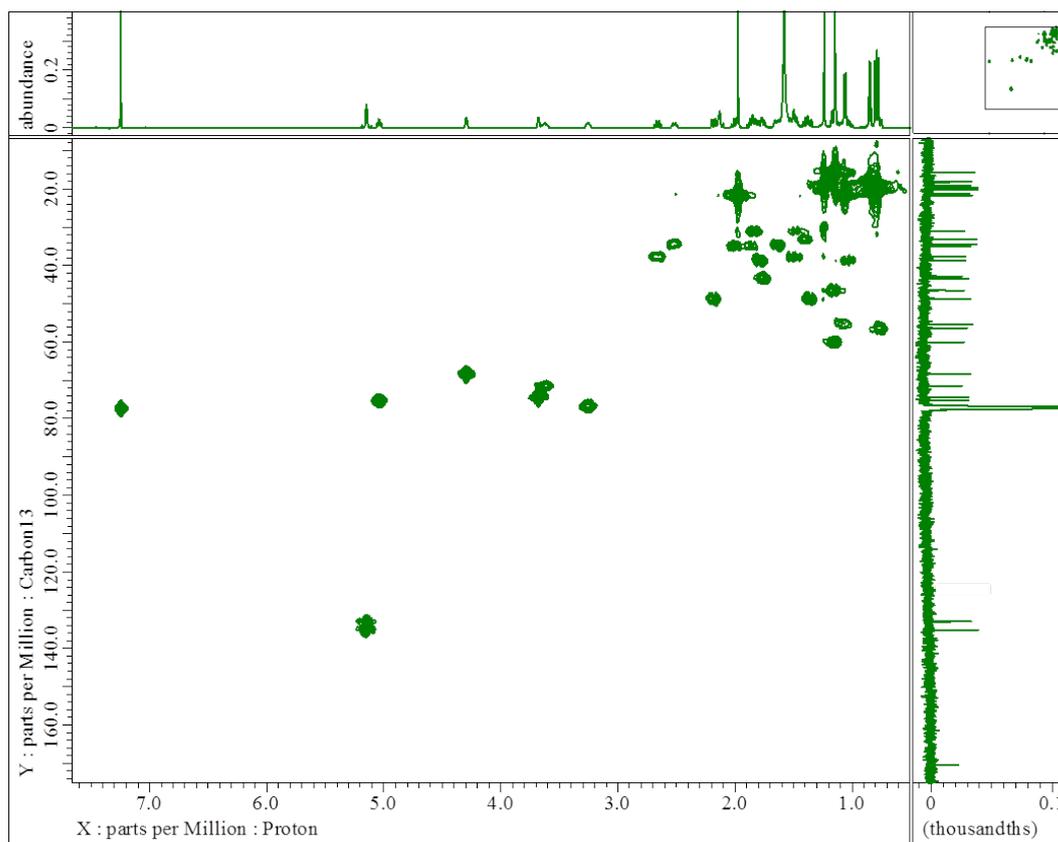


Figure S5 HMQC Spectrum of **1**.

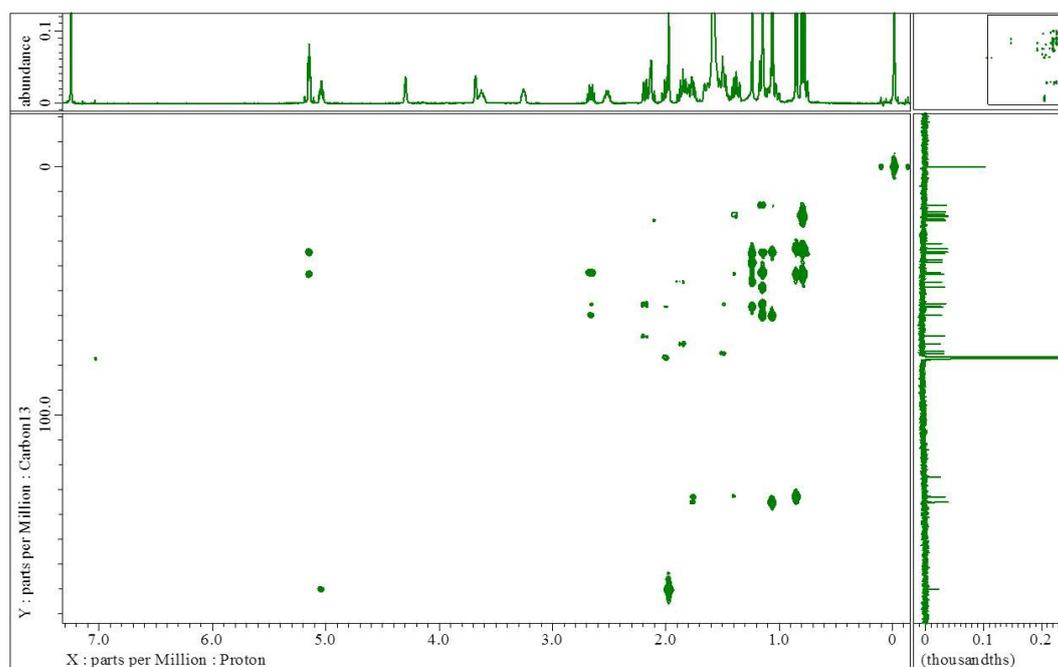


Figure S6 HMBC Spectrum of **1**.

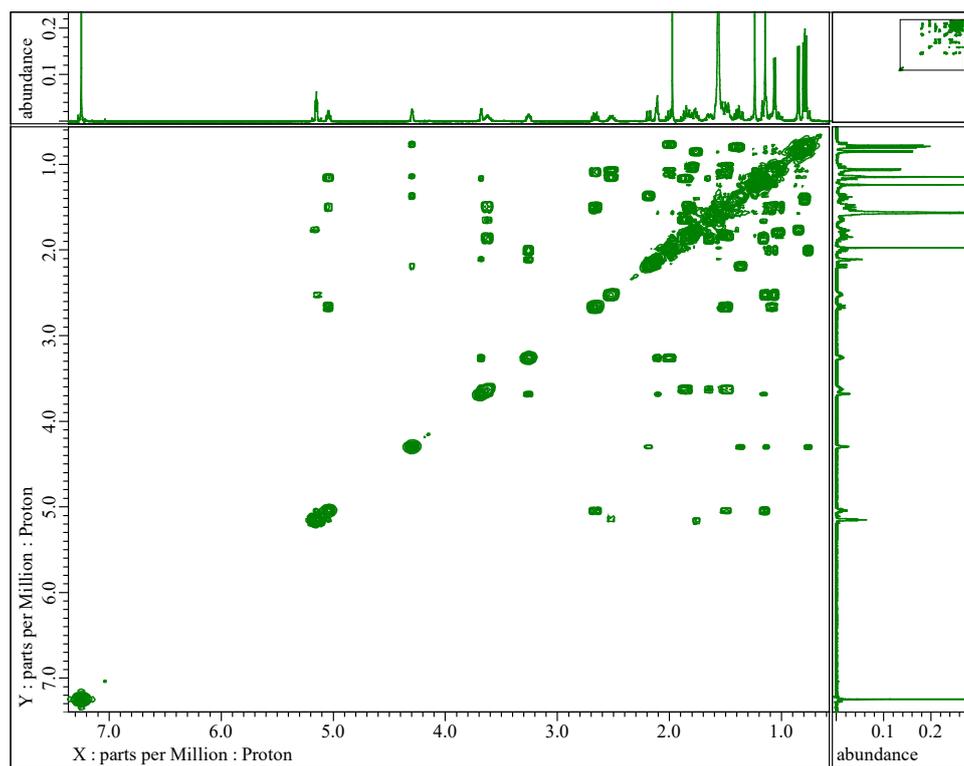


Figure S7 ^1H - ^1H -COSY Spectrum of **1**.

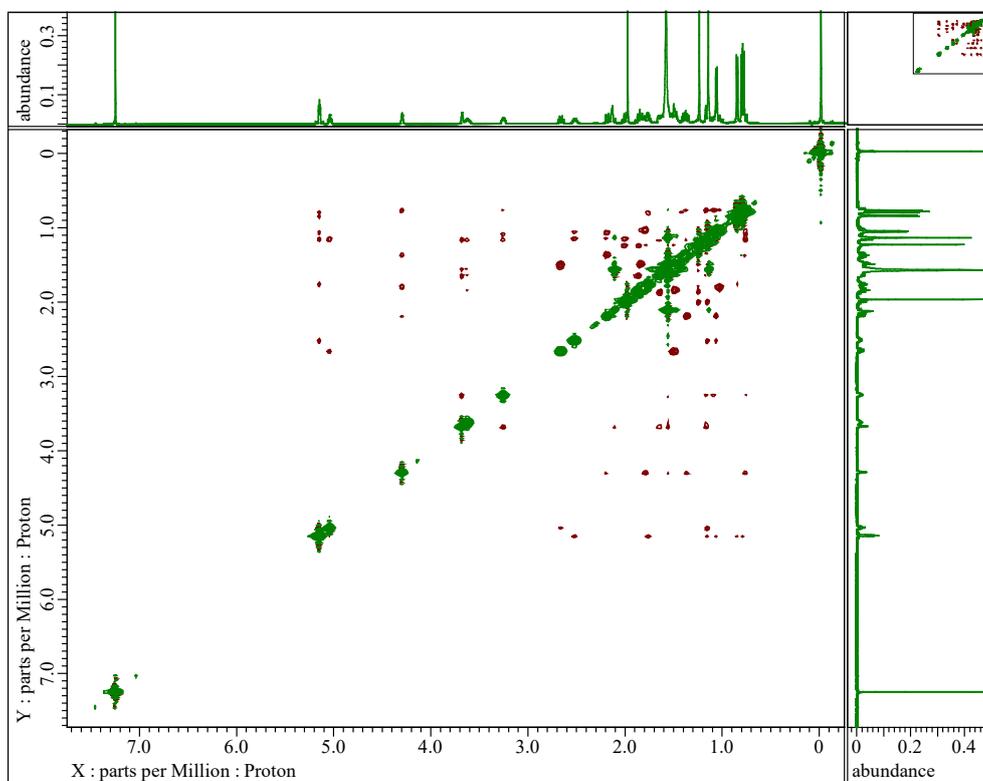


Figure S8 NOESY Spectrum of **1**.

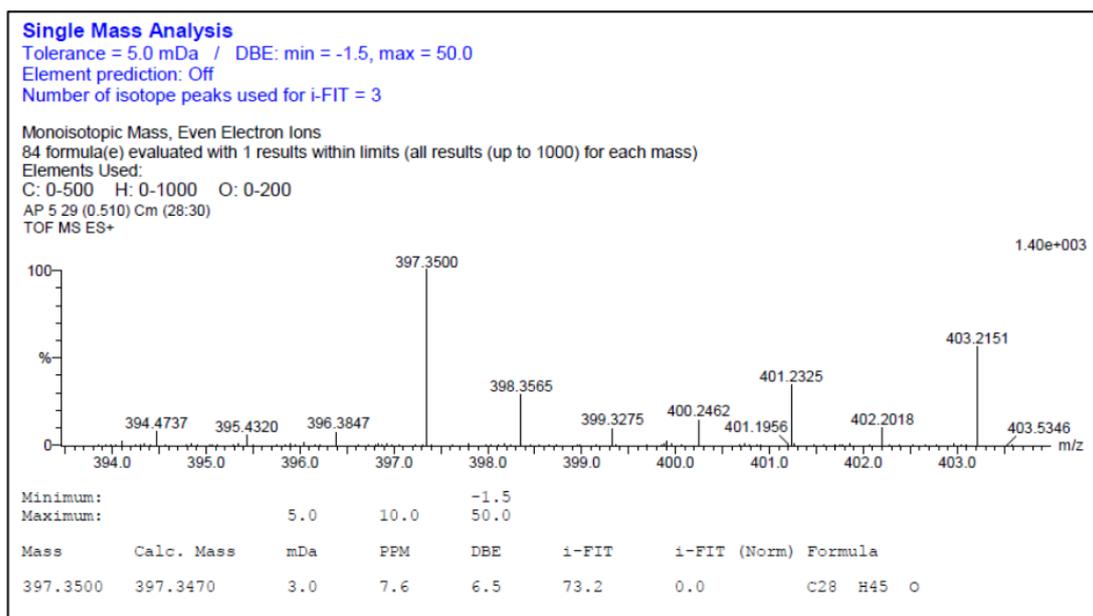


Figure S9 HRTOFMS Spectrum of 2.

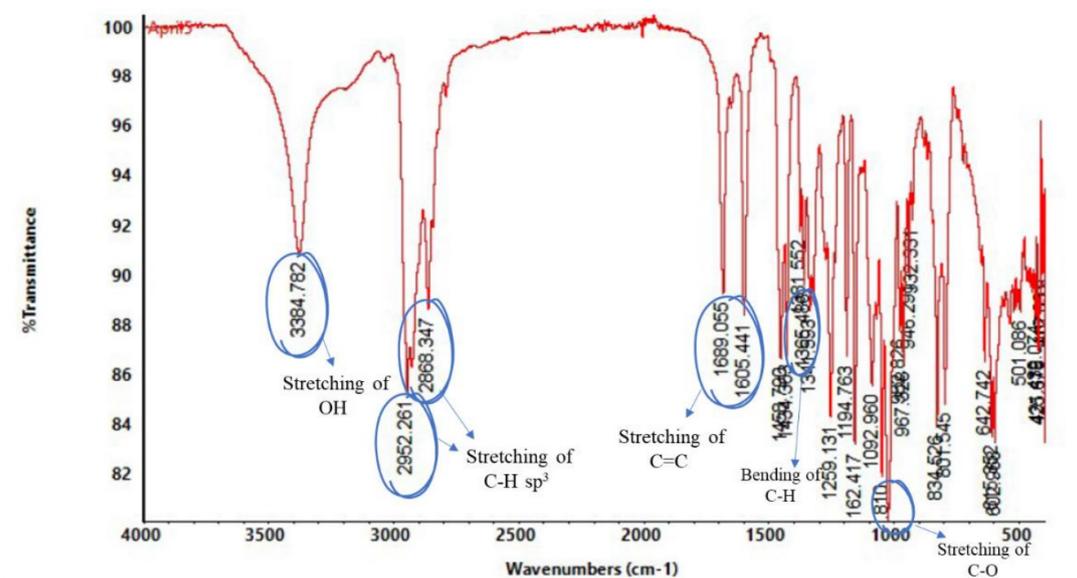


Figure S10 FTIR Spectrum of 2.

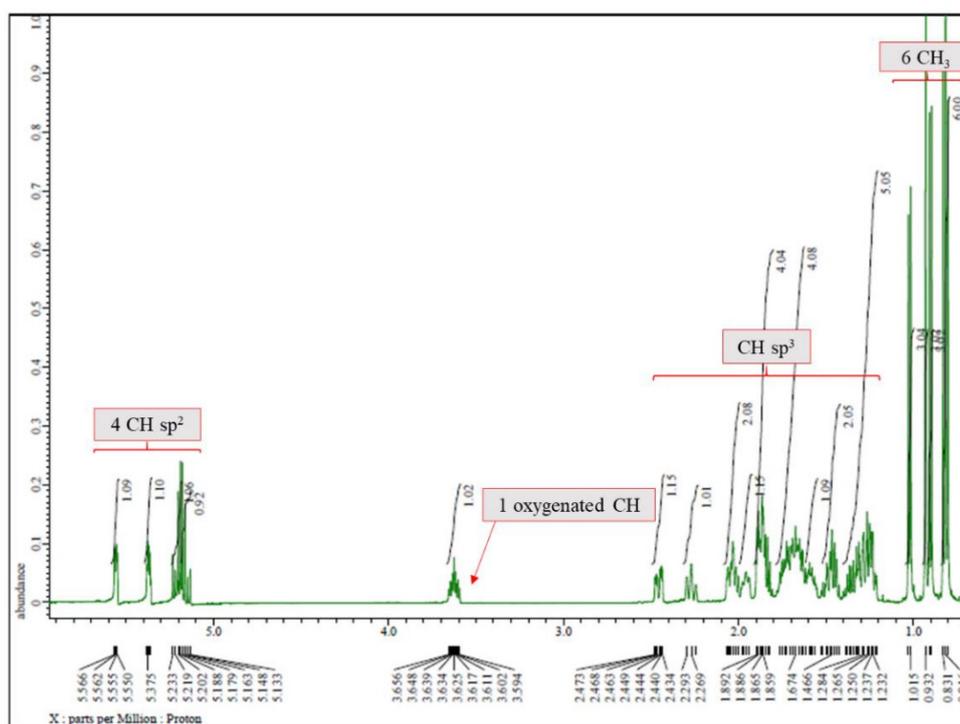
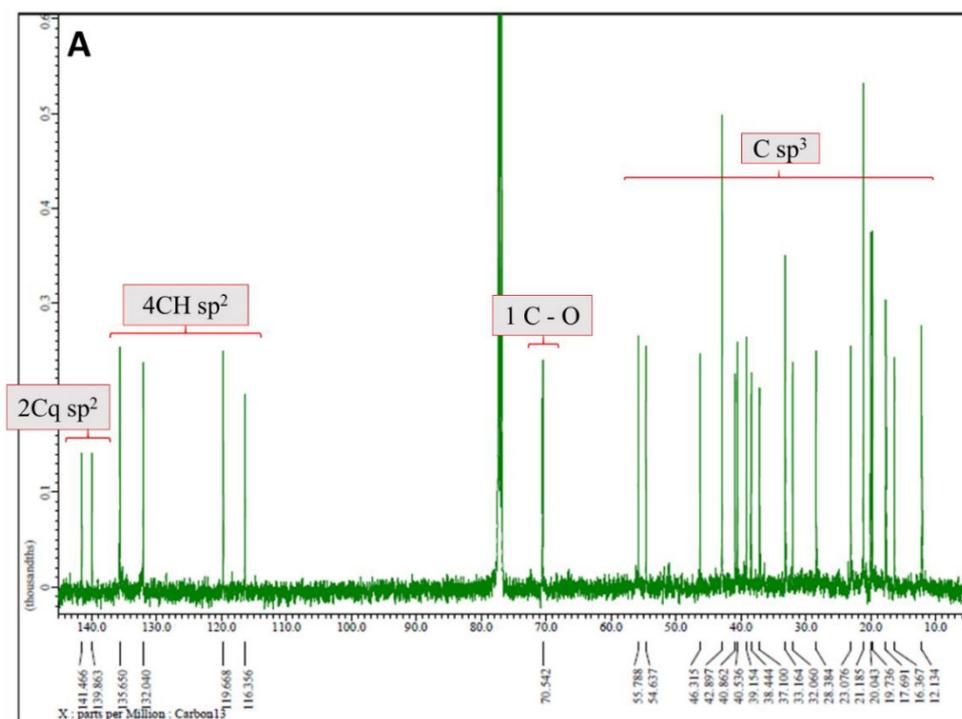


Figure S11 $^1\text{H-NMR}$ Spectrum of **2** (500 MHz in CDCl_3).



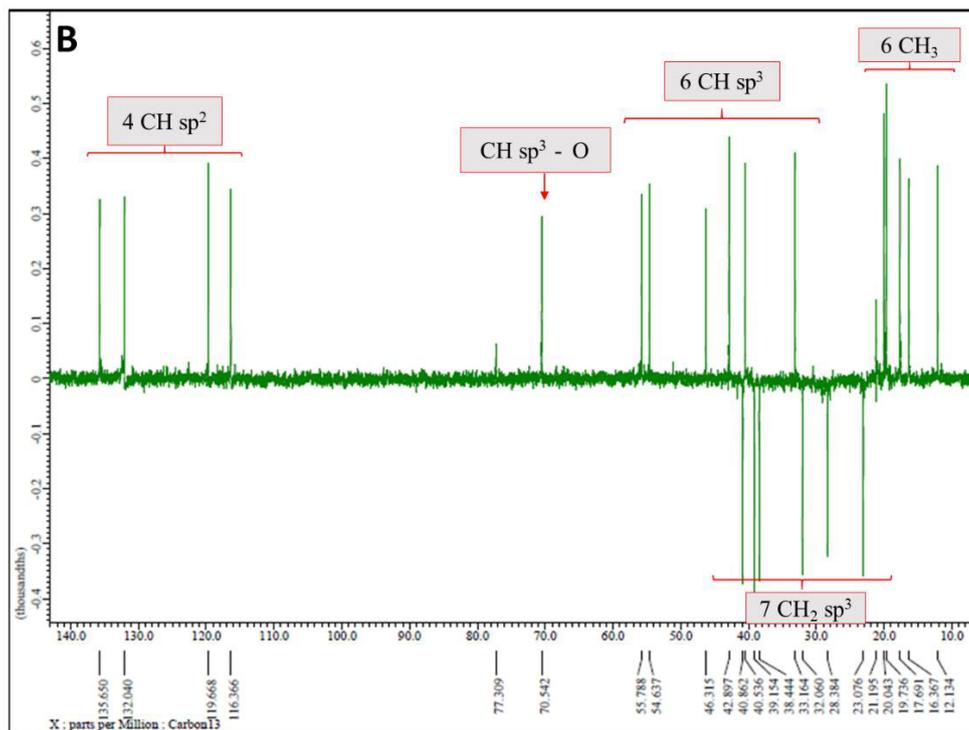


Figure S12 ¹³C-NMR and DEPT-135° Spectrum of **2** (125 MHz in CDCl₃).

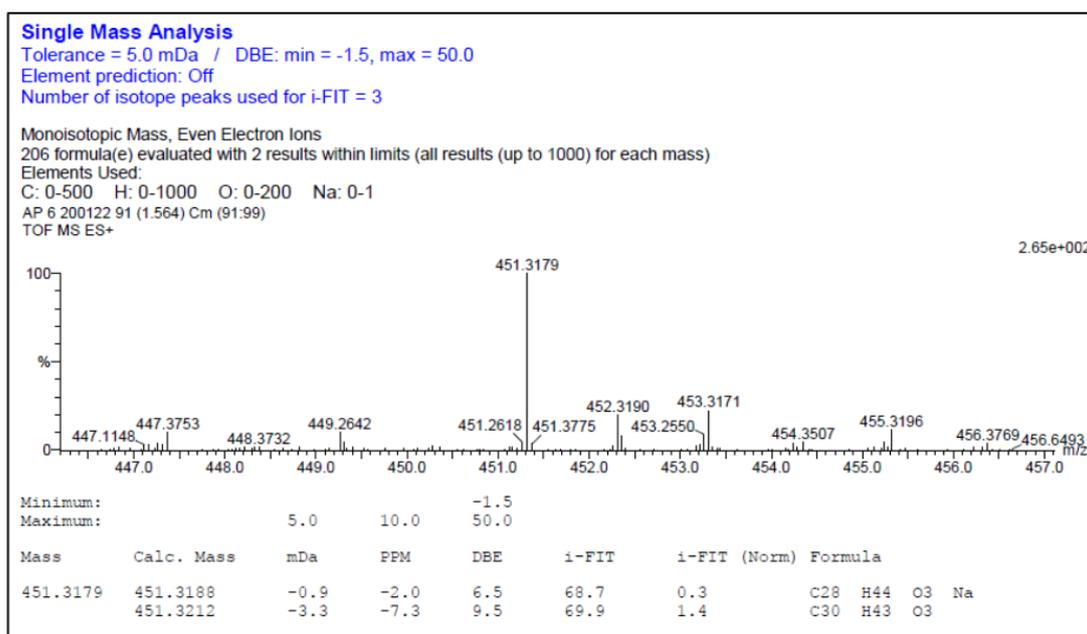


Figure S13 HRTOFMS Spectrum of **3**.

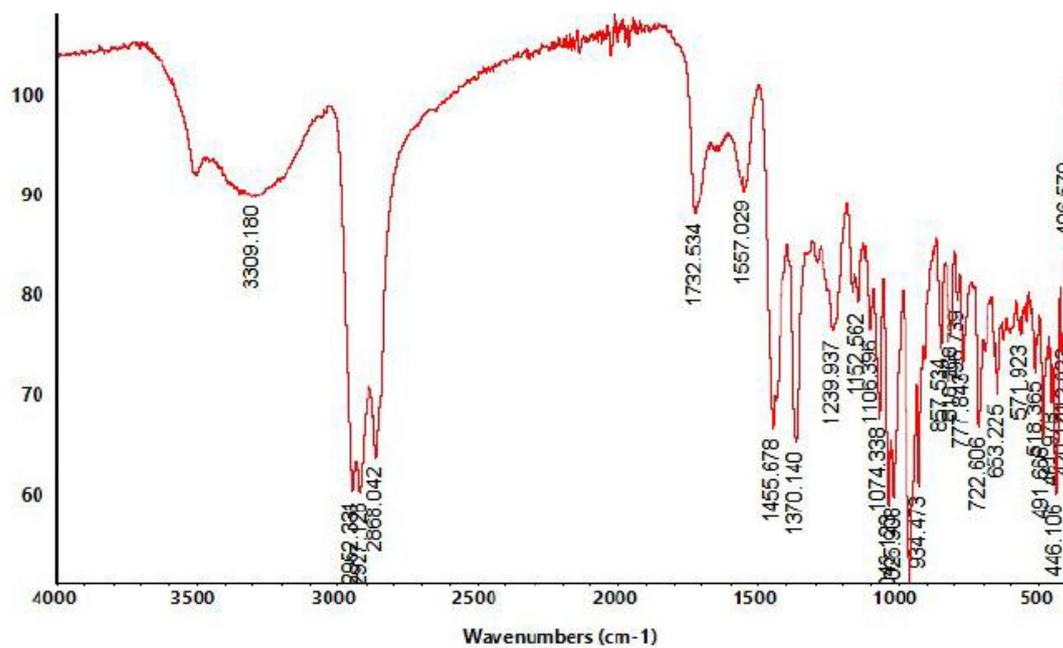


Figure S14 FTIR Spectrum of 3.

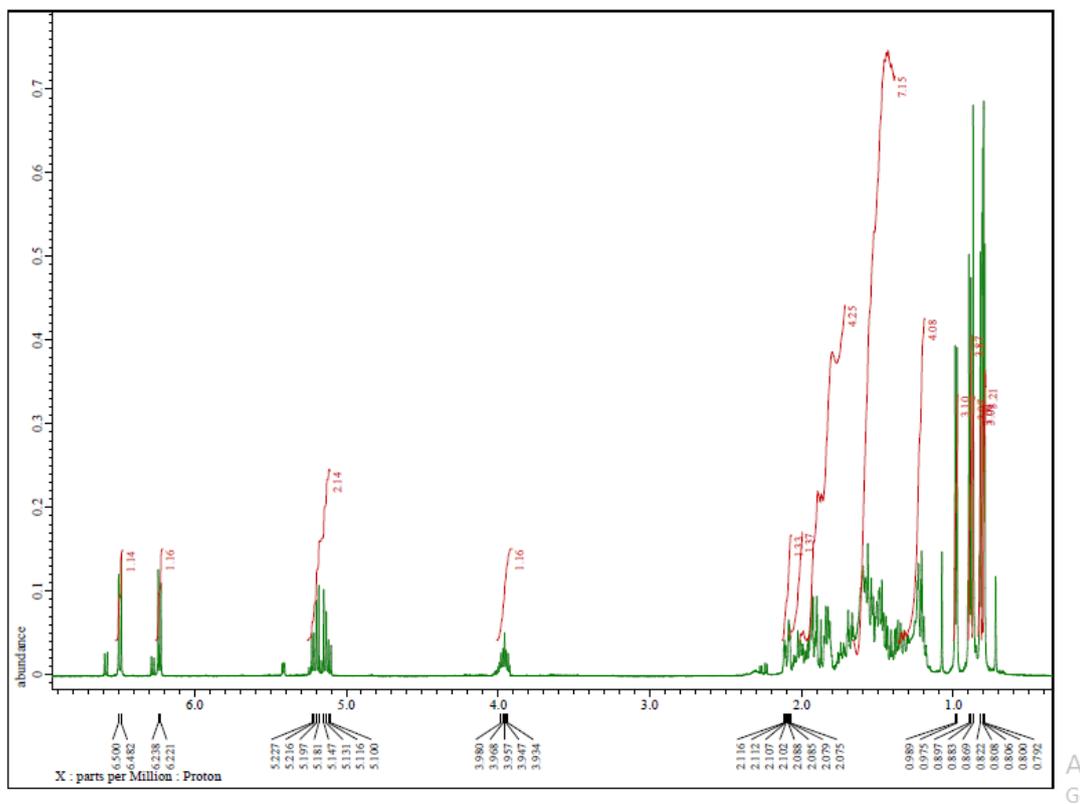


Figure S15 ¹H-NMR Spectrum of 3 (500 MHz in CDCl₃).

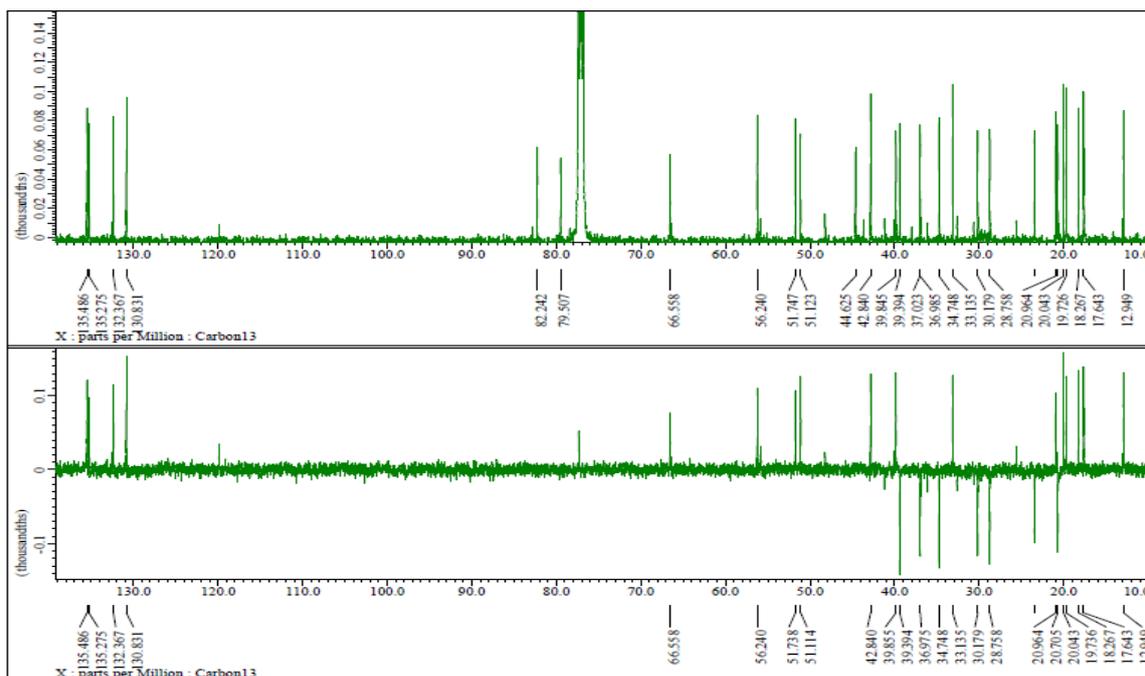


Figure S16 ^{13}C -NMR and DEPT-135° Spectrum of **3** (125 MHz in CDCl_3).

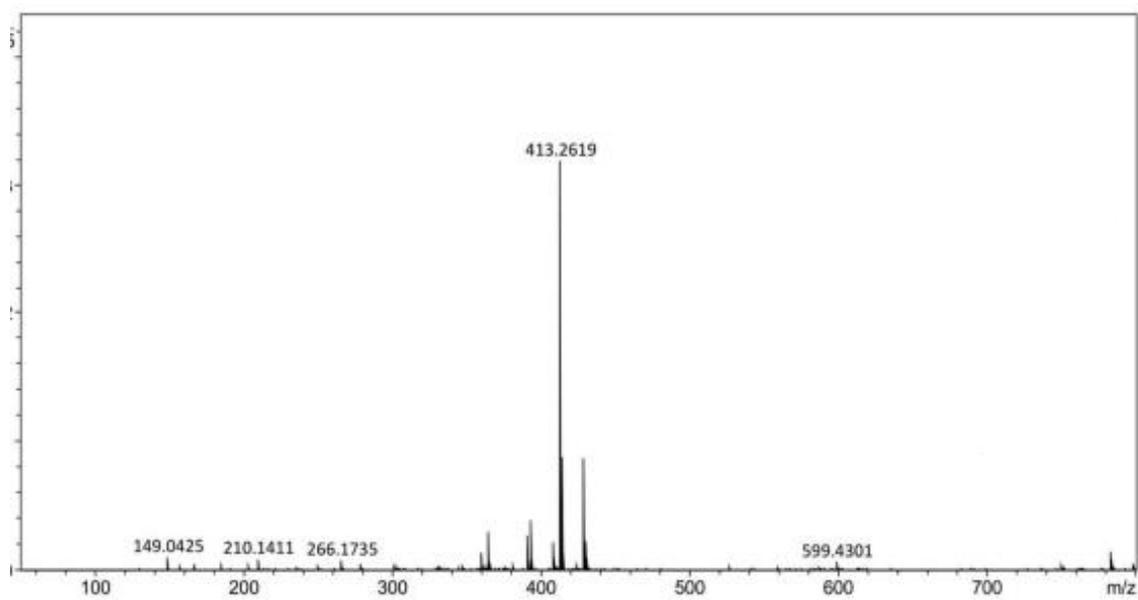


Figure S17 HRTOFMS Spectrum of **4**.

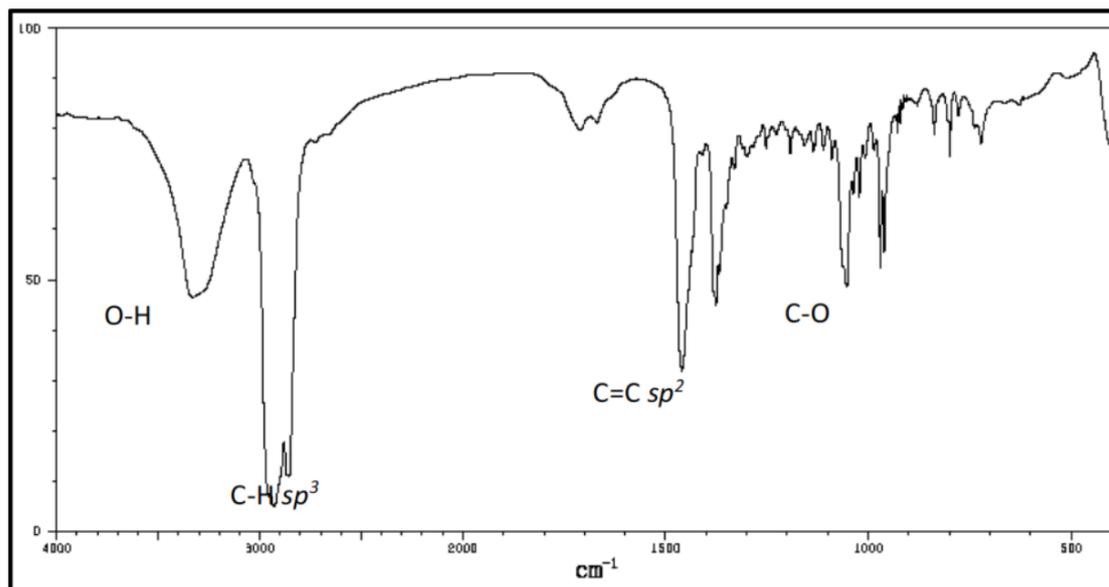


Figure S18 FTIR Spectrum of 4.

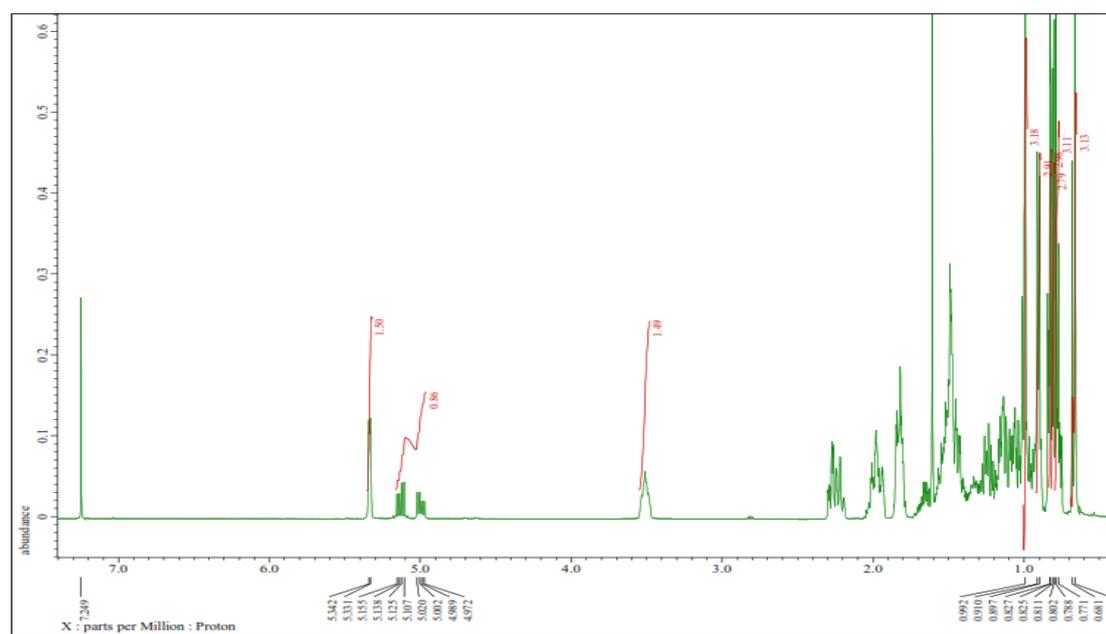


Figure S19 $^1\text{H-NMR}$ Spectrum of 4.

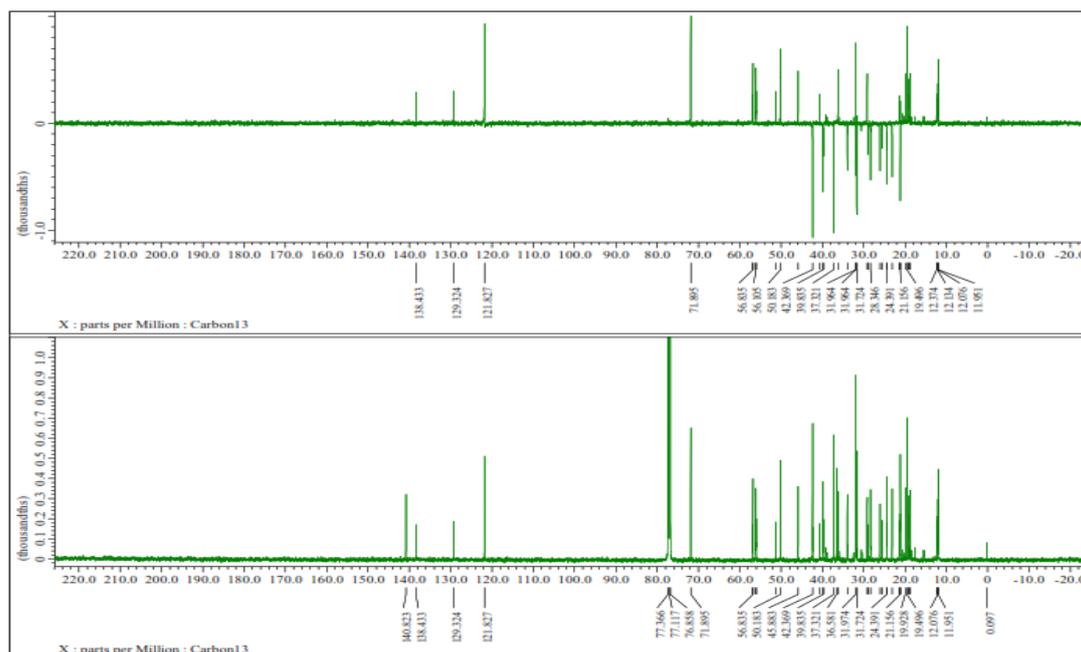


Figure S20 ^{13}C -NMR and DEPT-135° Spectrum of **4** (125 MHz in CDCl_3).

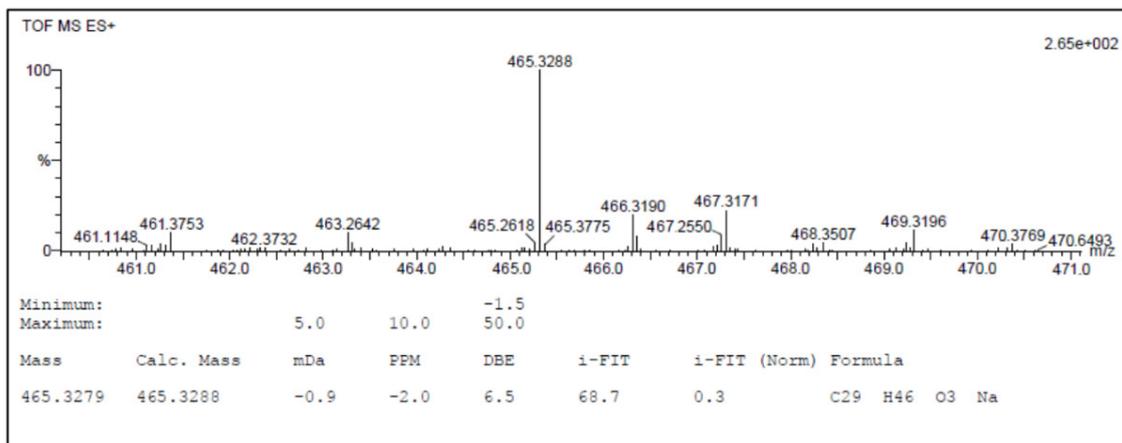
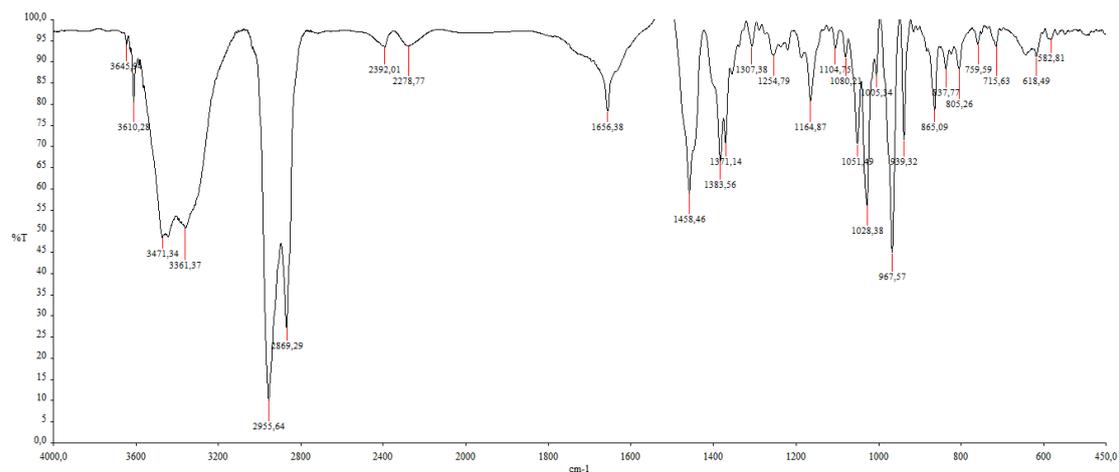
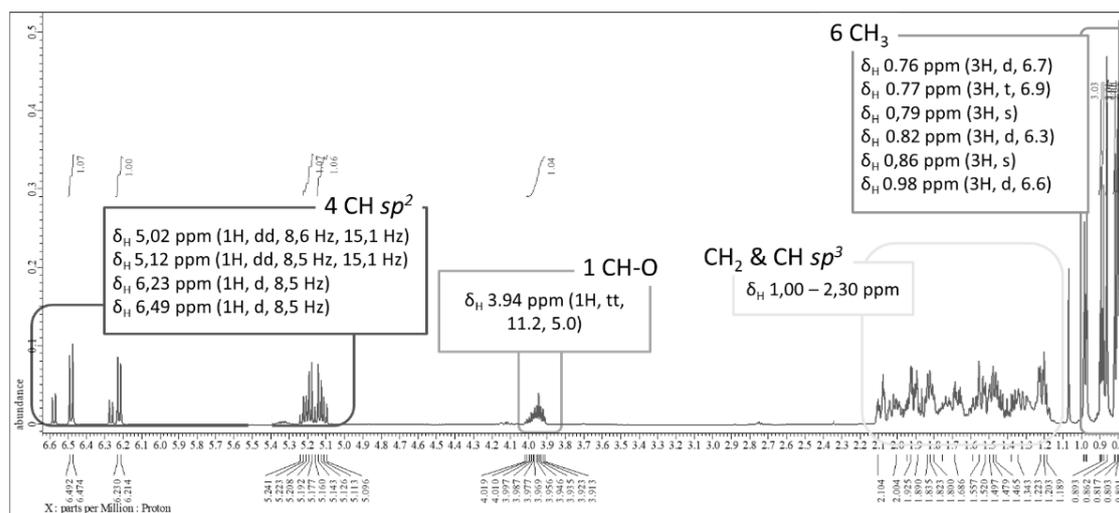


Figure S21 HRTOFMS Spectrum of **5**.

Figure S22 FTIR Spectrum of **5**.Figure S23 $^1\text{H-NMR}$ Spectrum of **5** (500 MHz in CDCl_3).

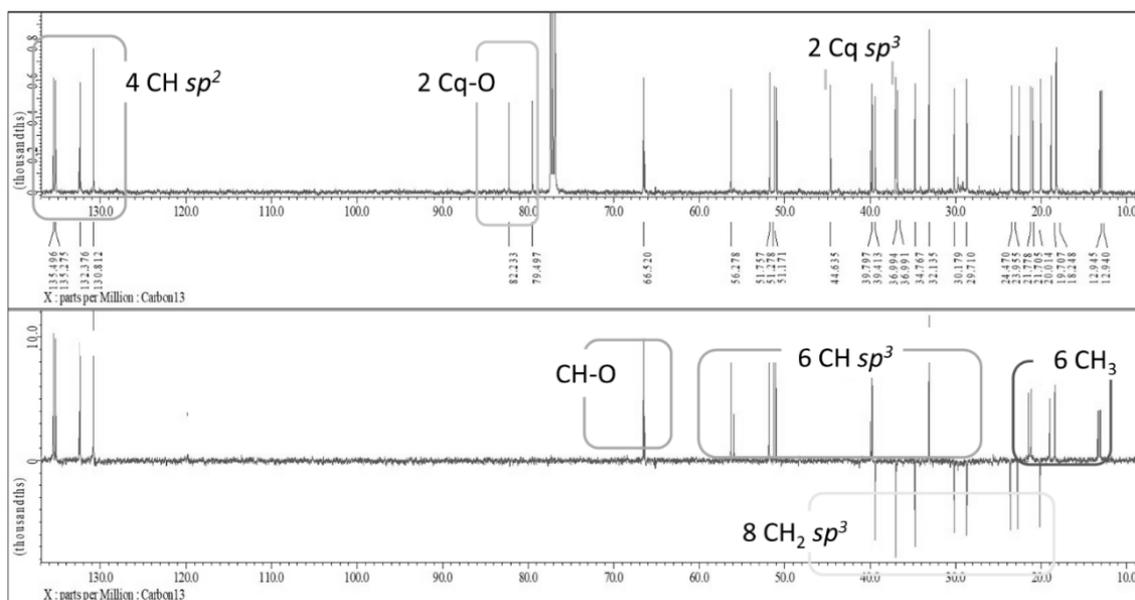


Figure S24 ^{13}C -NMR and DEPT-135° Spectrum of **5** (125 MHz in CDCl_3).

	4000	2000	1000	500	250	125	62,5	31,25	15,625	7,8125	3,9063	1,9531	0,9766
M + S		0,153	0,161	0,133	0,107	0,083	0,064	0,053	0,048	0,055	0,060	0,066	0,065
M + P		0,054	0,066	0,065	0,065	0,061	0,055	0,059	0,068	0,061	0,068	0,086	0,068
M + S + B		0,163	0,146	0,117	0,093	0,071	0,055	0,067	0,146	0,288	0,316	0,351	0,412
M + P + B		0,352	0,324	0,328	0,347	0,384	0,417	0,382	0,394	0,403	0,413	0,432	0,460



Figure S25 Antibacterial activity against *Staphylococcus aureus*.

	4000	2000	1000	500	250	125	62,5	31,25	15,625	7,8125	3,9063	1,9531	0,9766
M + S		0,224	0,159	0,094	0,070	0,059	0,054	0,051	0,050	0,051	0,050	0,050	0,050
M + P		0,046	0,048	0,049	0,049	0,050	0,050	0,049	0,050	0,050	0,049	0,049	0,049
M + S + B		0,383	0,221	0,117	0,080	0,065	0,057	0,054	0,359	0,399	0,468	0,554	0,507
M + P + B		0,385	0,520	0,586	0,594	0,548	0,538	0,559	0,558	0,552	0,520	0,553	0,608

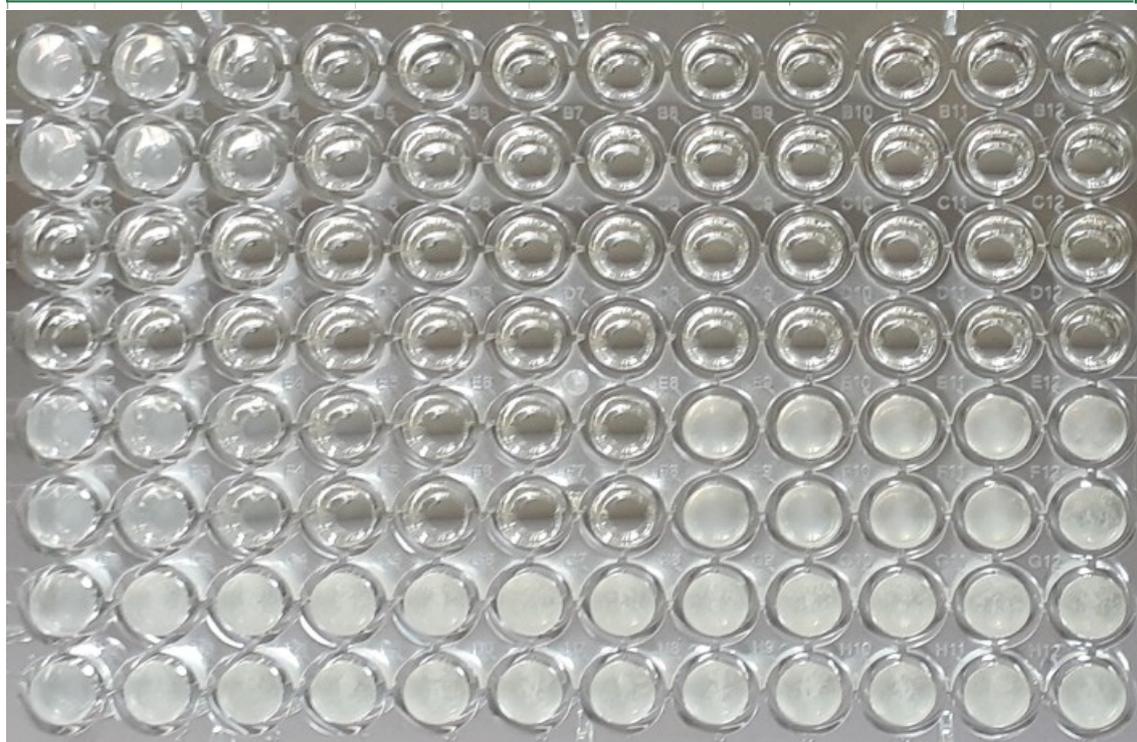


Figure S26 Antibacterial against *Vibrio harveyi*.

	4000	2000	1000	500	250	125	62,5	31,25	15,625	7,8125	3,9063	1,9531	0,9766
M + S		0,278	0,175	0,113	0,076	0,058	0,053	0,051	0,050	0,051	0,050	0,050	0,050
M + P		0,046	0,048	0,050	0,050	0,050	0,050	0,051	0,050	0,050	0,050	0,049	0,049
M + S + B		0,364	0,239	0,152	0,083	0,062	0,056	0,053	0,167	0,333	0,406	0,445	0,503
M + P + B		0,407	0,497	0,539	0,550	0,548	0,559	0,535	0,529	0,529	0,521	0,525	0,522



Figure S27 Antibacterial against *Escherichia coli*.

	2000	1000	500	250	125	62,5	31,25	15,625	7,8125	3,9063	1,9531	0,9766	0,4883
M + S		0,371	0,367	0,087	0,087	0,067	0,057	0,053	0,052	0,052	0,052	0,053	0,052
M + P		0,047	0,292	0,052	0,051	0,050	0,051	0,049	0,050	0,052	0,050	0,051	0,050
M + S + B		0,507	0,540	0,542	0,600	0,644	0,641	0,562	0,575	0,577	0,593	0,592	0,609
M + P + B		0,314	0,495	0,553	0,561	0,550	0,549	0,521	0,527	0,548	0,526	0,524	0,535



Figure S28. Antibacterial activity against *Enterococcus faecalis*.