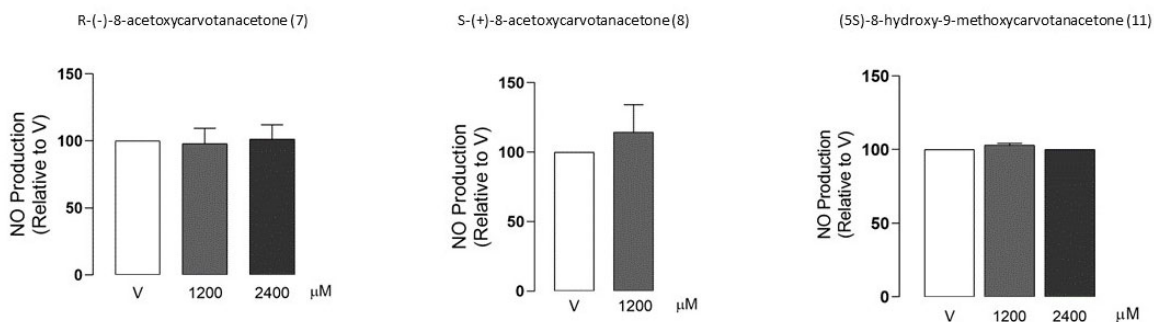**Supplementary Materials to "Synthesis of Carvone Derivatives and *In Silico* and *In Vitro* Screening of Anti-Inflammatory Activity in Murine Macrophages" by Gabriela Moço, Cátia Sousa, Ana Capitão, Stephen Scott MacKinnon, Alcino Leitão and Alexandrina Ferreira Mendes**

NO Production

Figure S1. Effect of the test compounds on NO production. Raw 264.7 cells were treated with 1200 or 2400 µM of the test compounds for 18 h in the absence of LPS; control cells (V) were treated with the vehicle alone (0,1% DMSO) for 18 h. Each column represents the mean ± SEM of three independent experiments.
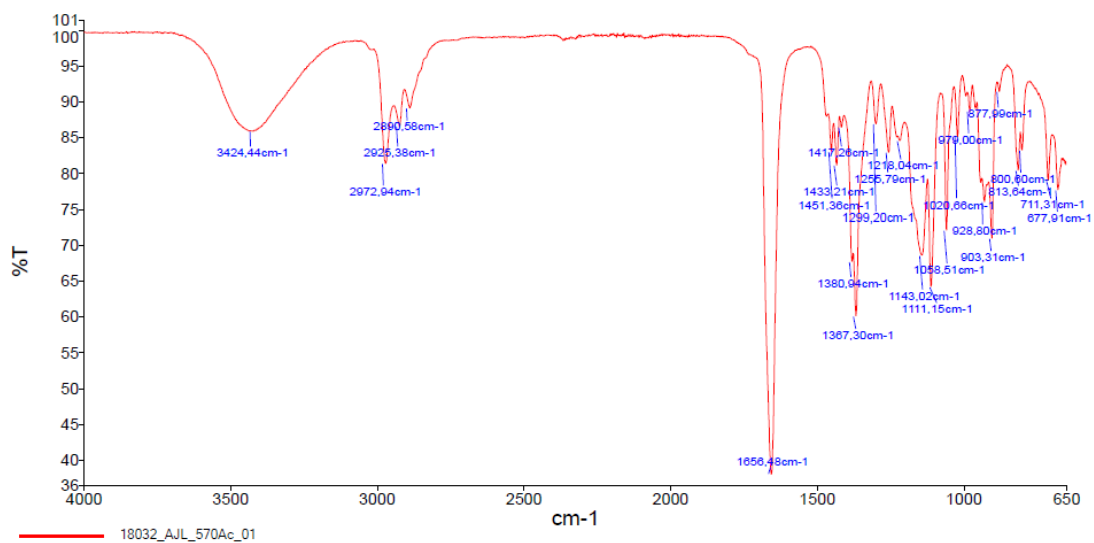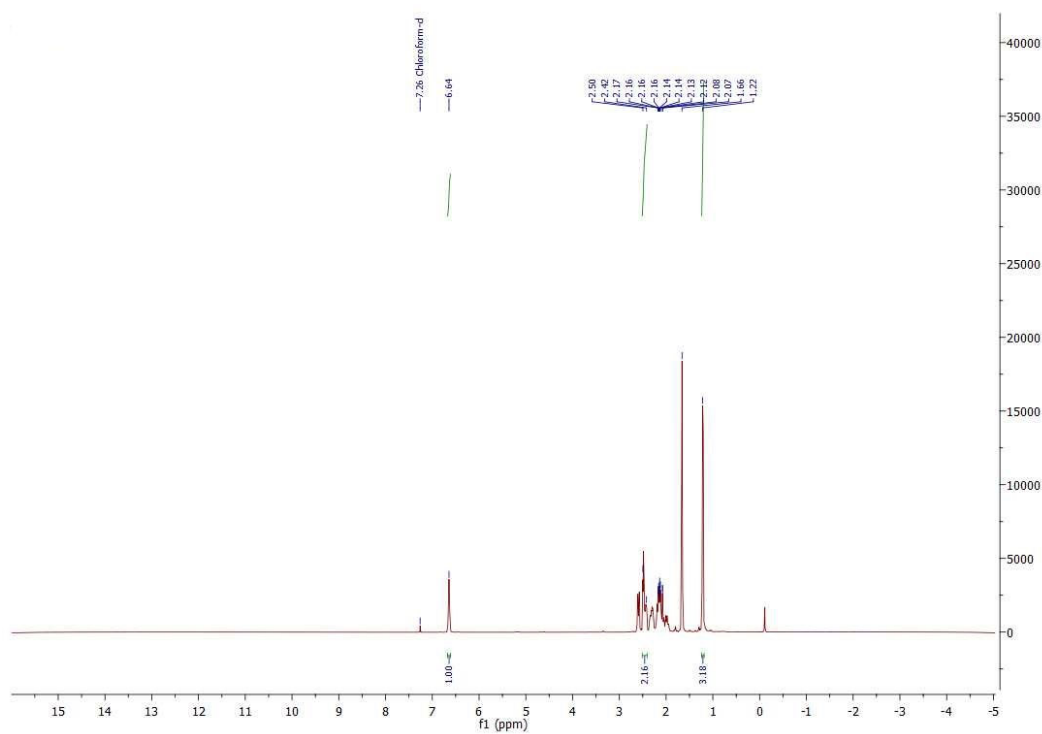
NMR (^{1}H and ^{13}C) and FT-IR Spectroscopy
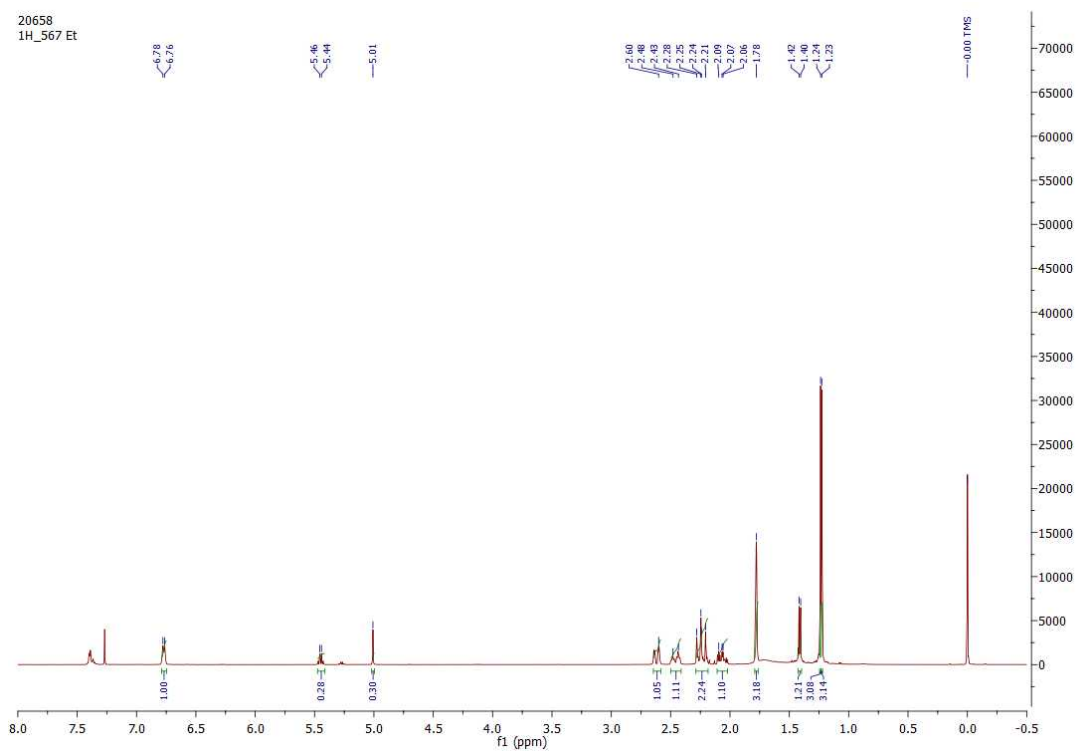
Figure S2. ¹H NMR spectrum of **3**.
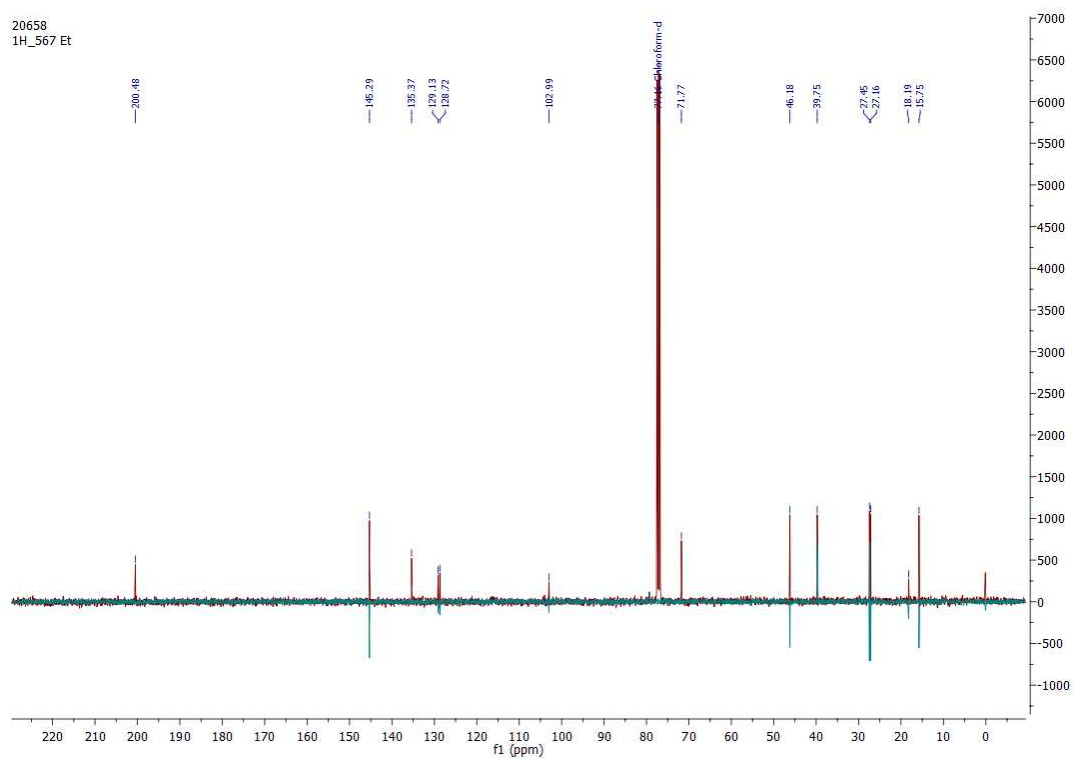
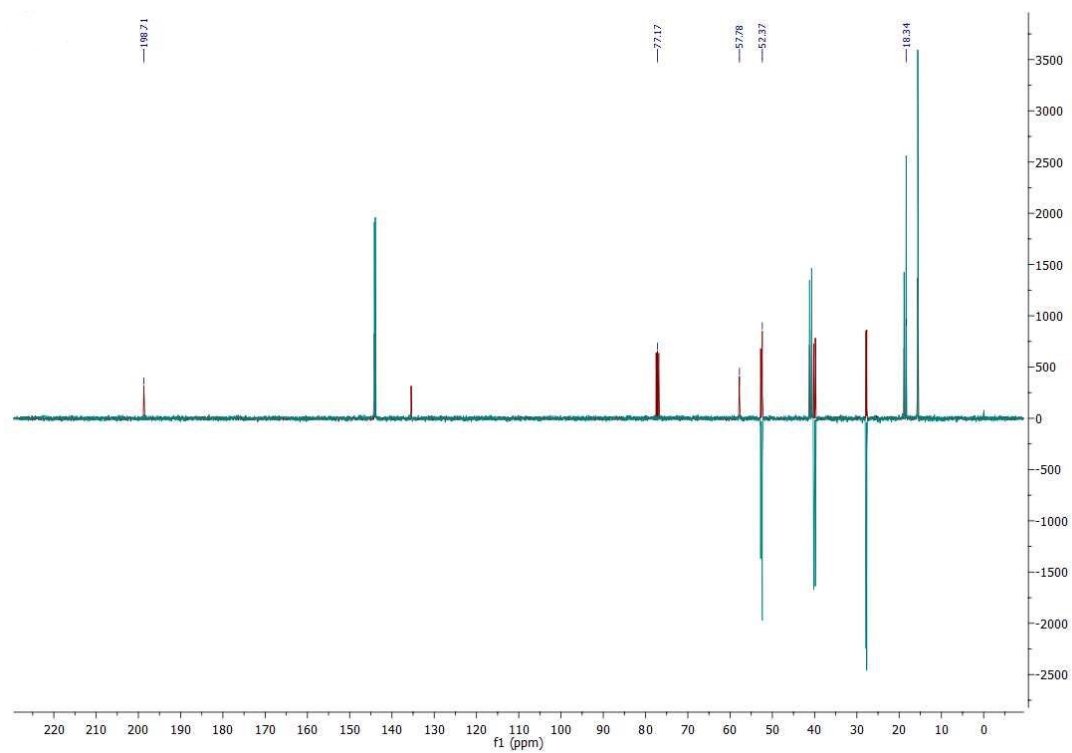**Figure S3.** ¹³C NMR and DEPT-135 spectra of **3**.

Figure S4. FT-IR spectrum of **3.**
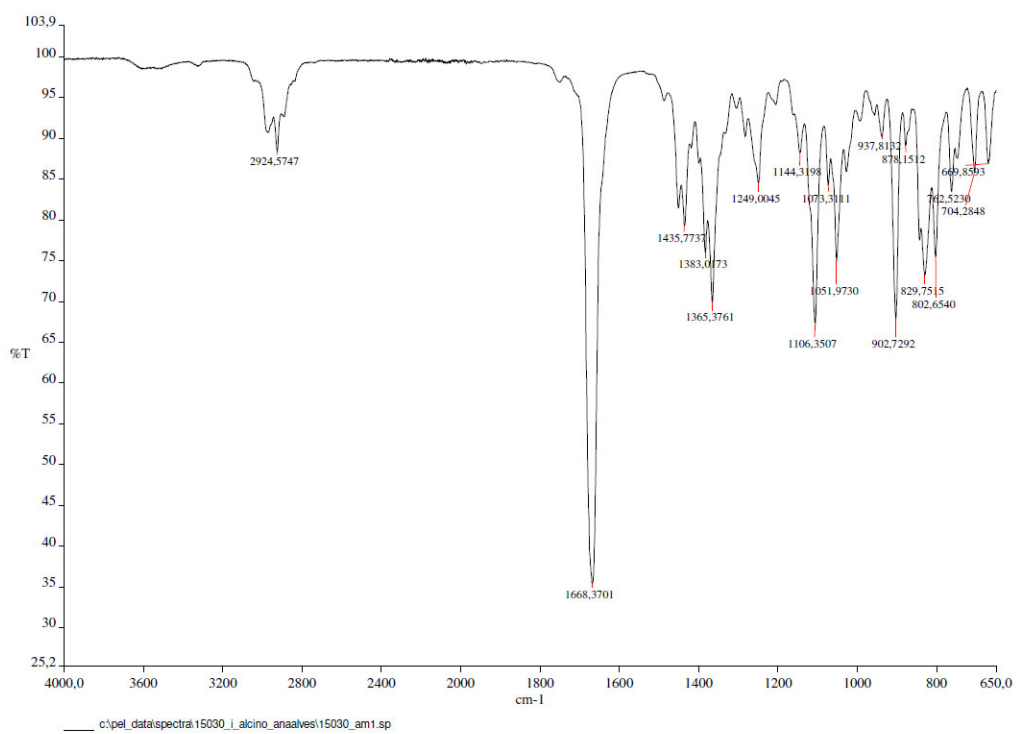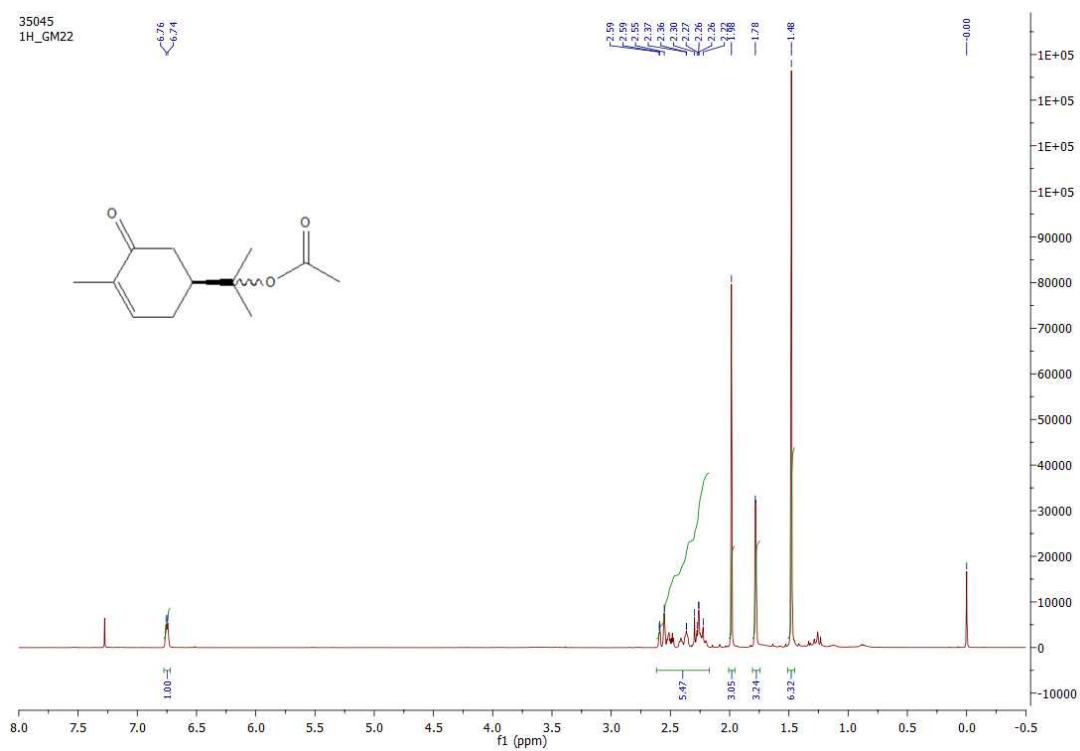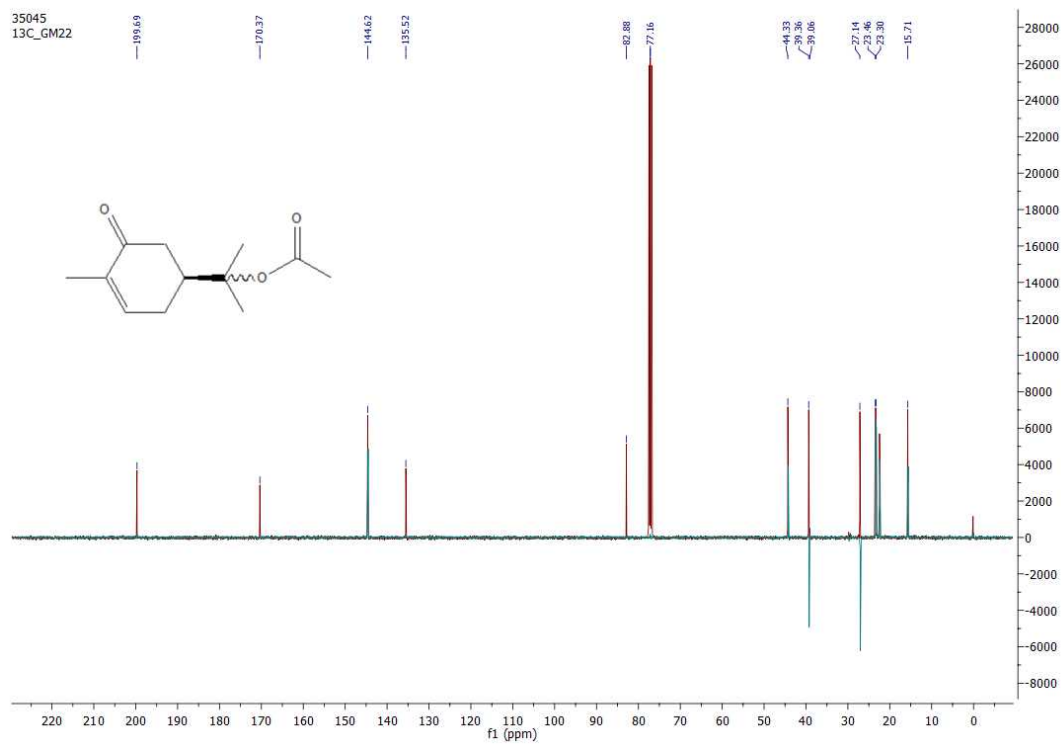

Figure S5. ^{1}H NMR spectrum of **5.**
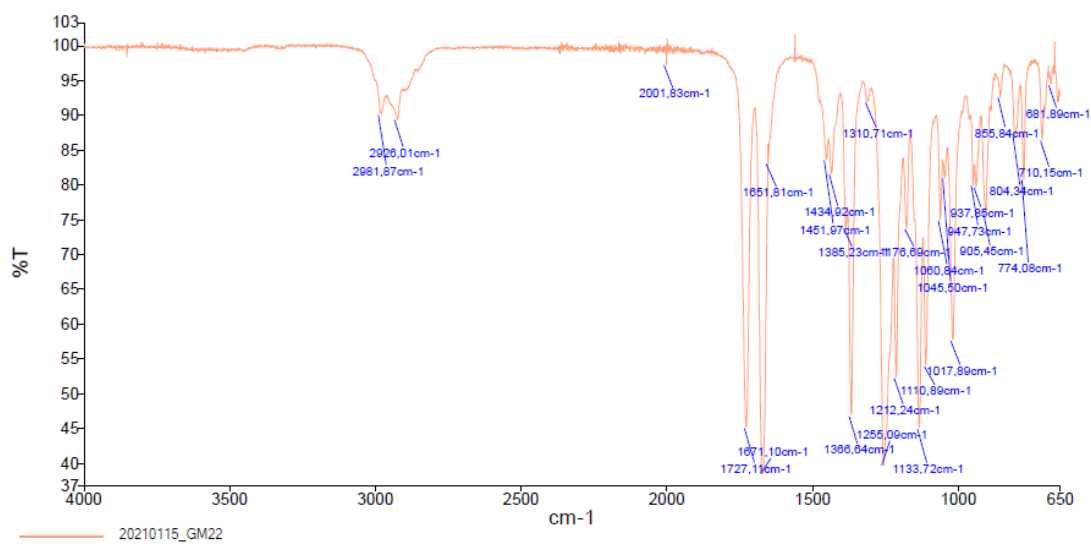
Figure S6. ^{13}C NMR and DEPT-135 spectra of **5.**
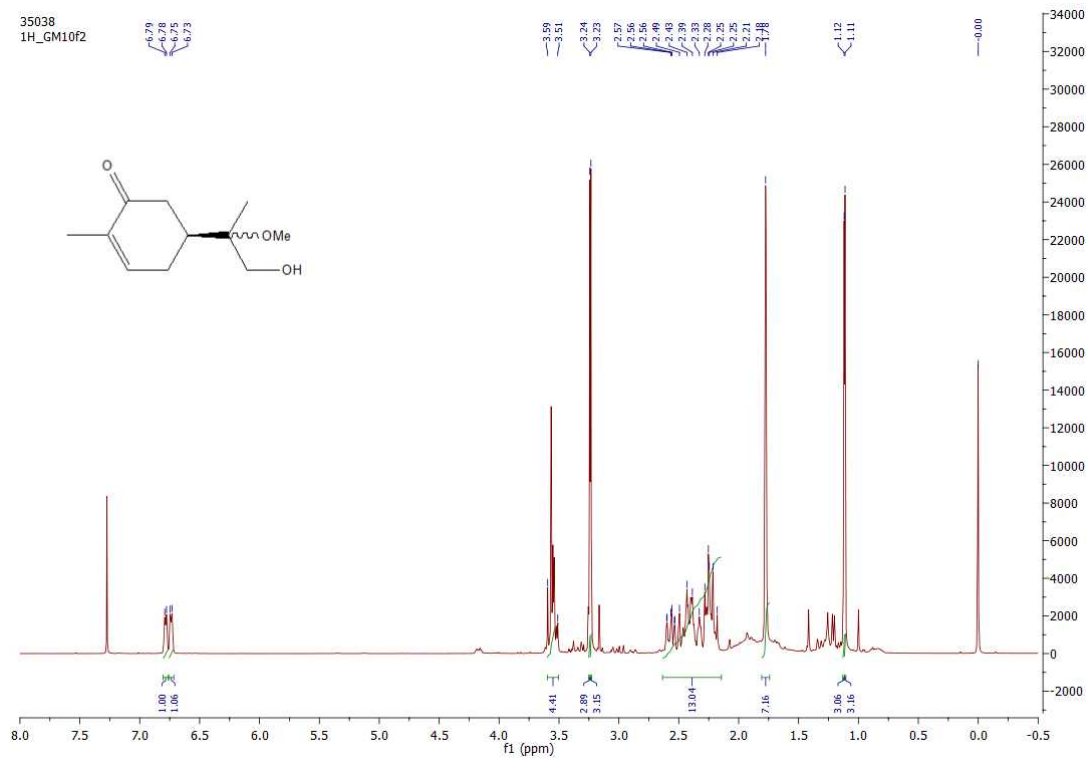

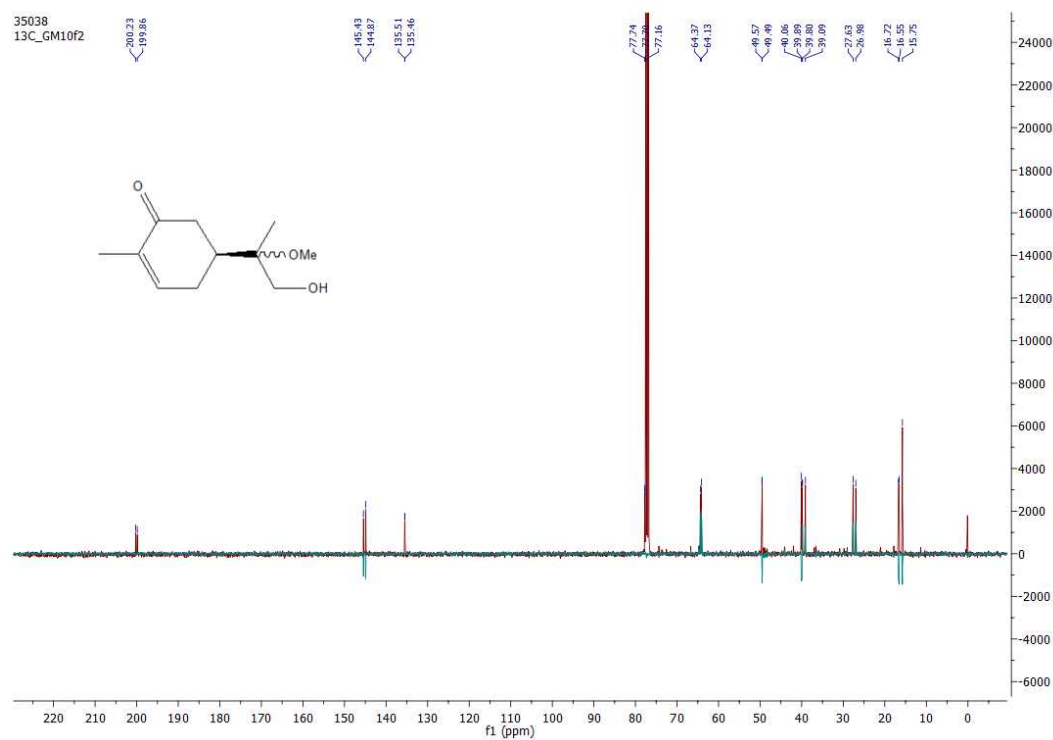**Figure S7.** FT-IR spectrum of **5.**

Figure S8. ^{1}H NMR spectrum of **8.**

Figure S9. ^{13}C NMR and DEPT-135 spectra of **8.**
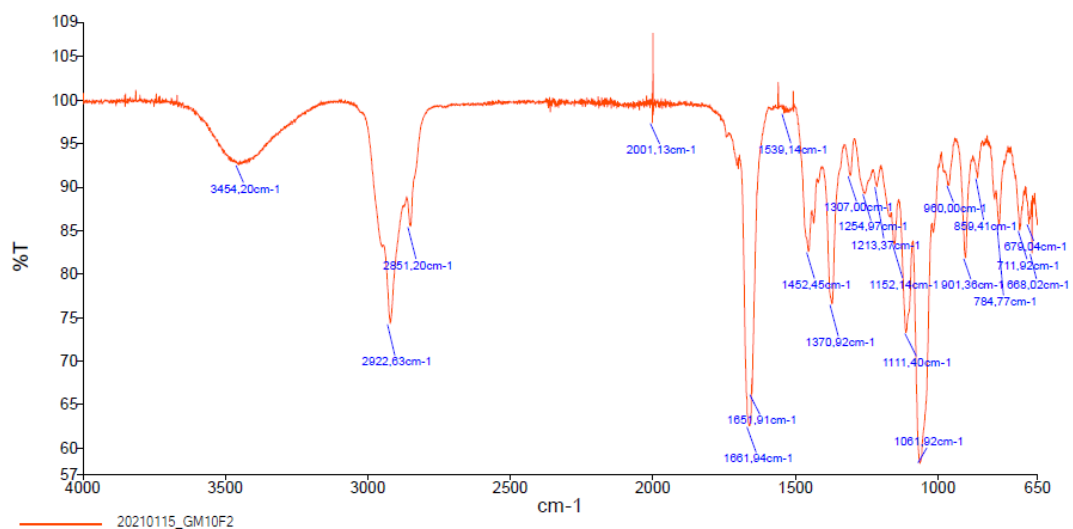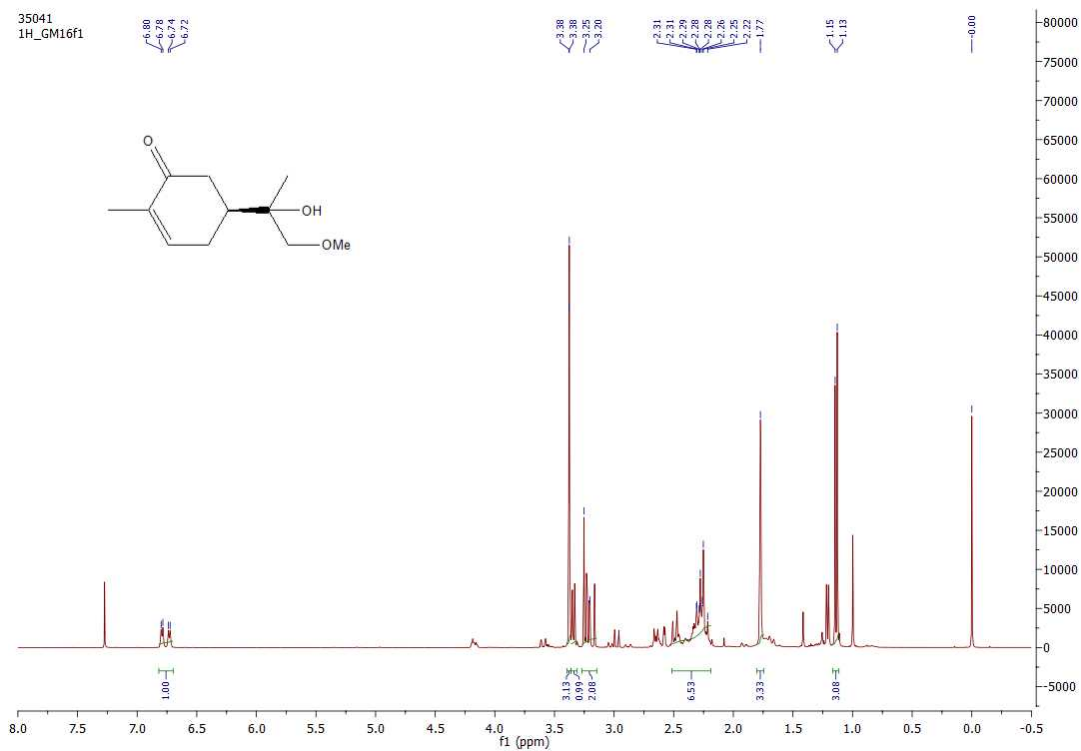

Figure S10. FT-IR spectrum of **8.**

Figure S11. ^{1}H NMR spectrum of **10.**

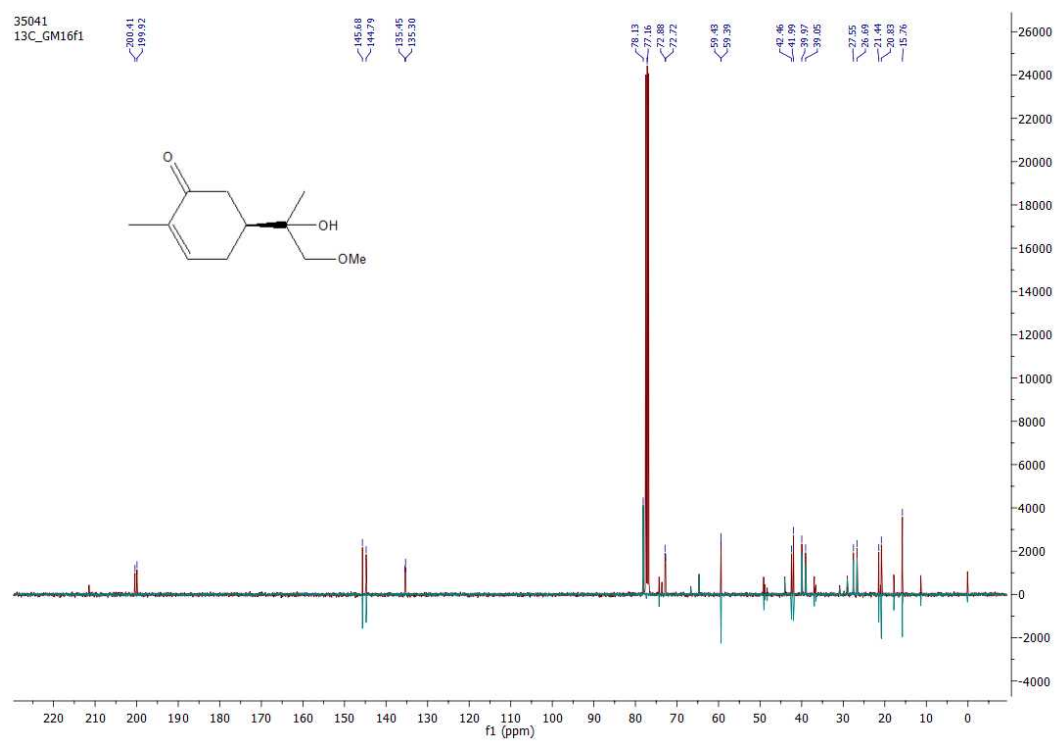**Figure S12.** ^{13}C NMR and DEPT-135 spectra of **10.**
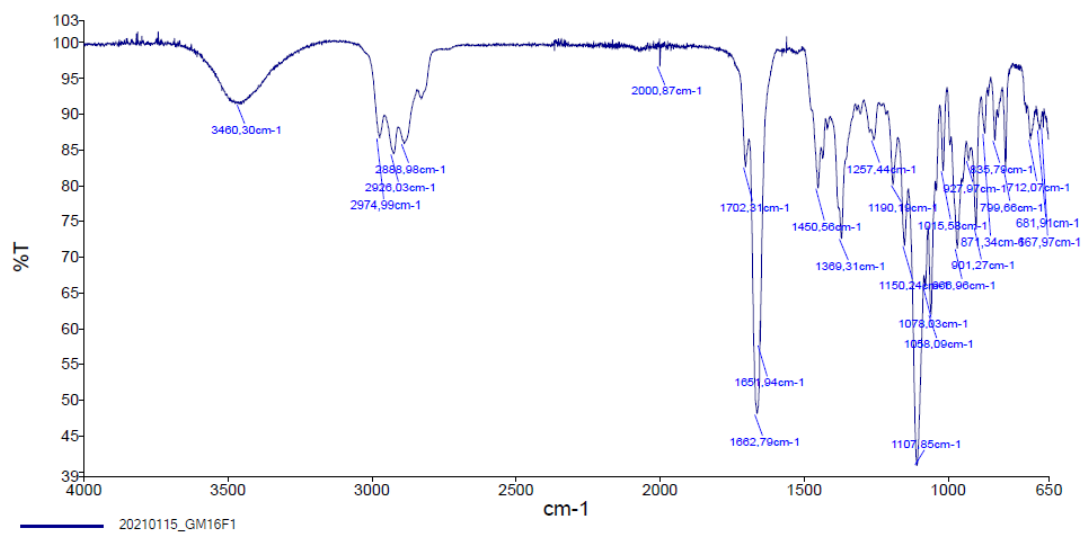
Figure S13. FT-IR spectrum of **10.**

Figure S14. ^{1}H NMR spectrum of **11.**

Figure S15. ^{13}C NMR and DEPT-135 spectra of **11.**
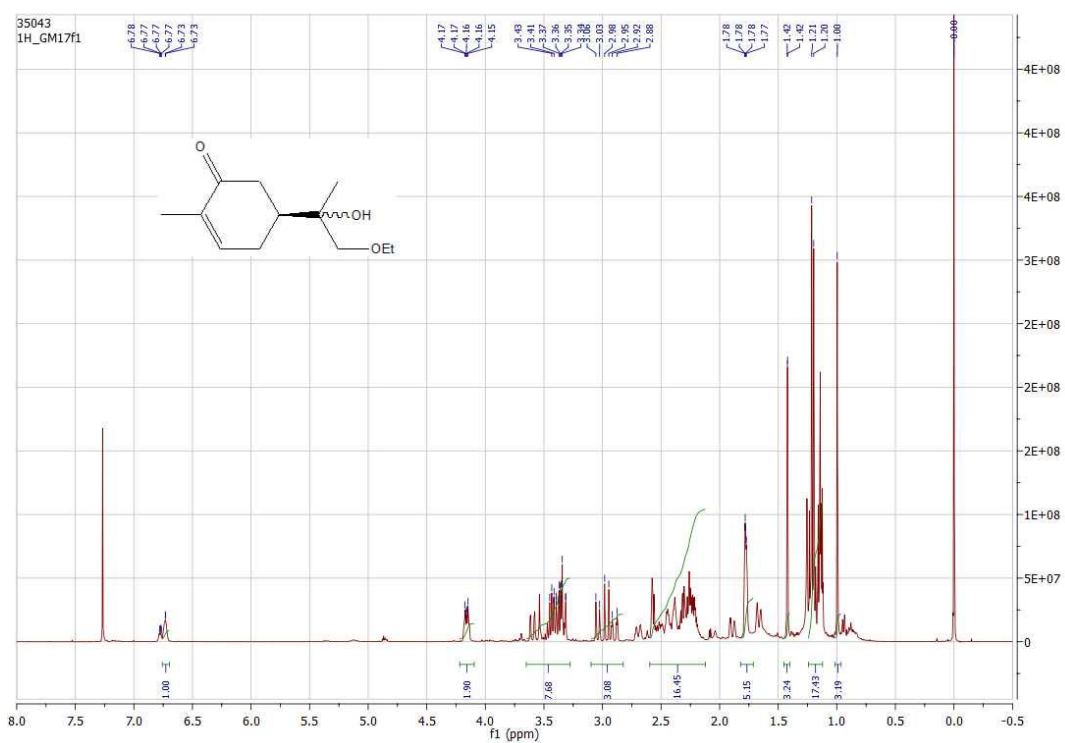

Figure S16. FT-IR spectrum of **11.**
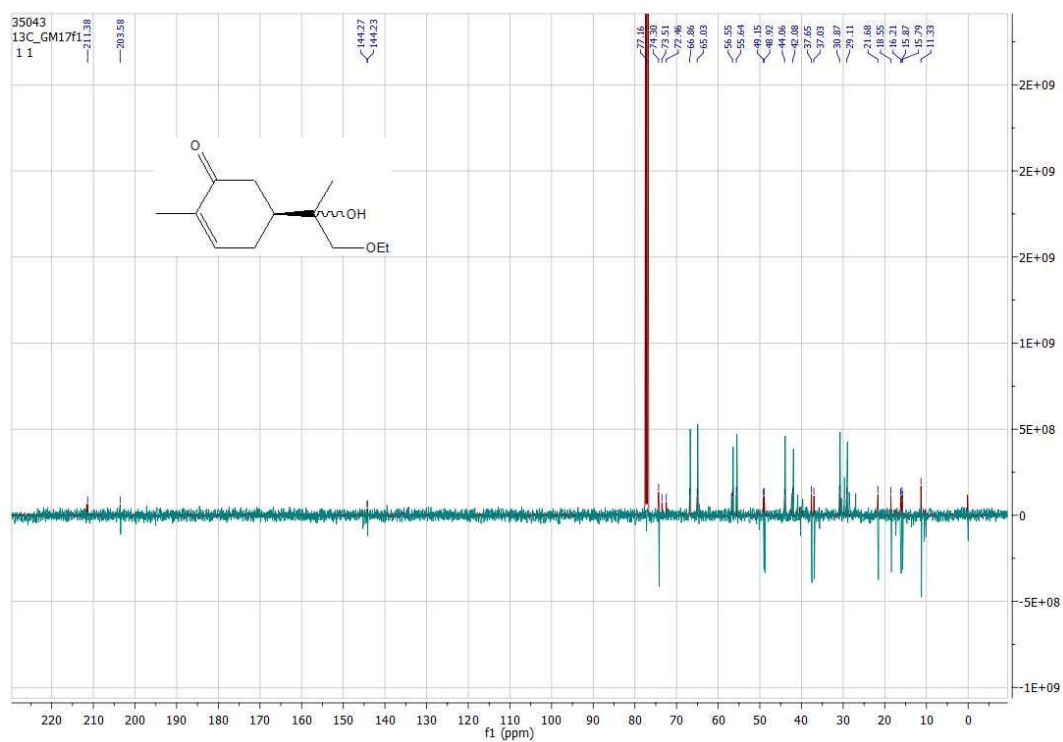
Figure S17. ¹H NMR spectrum of **15.**

Figure S18. ¹³C NMR and DEPT spectra of **15.**
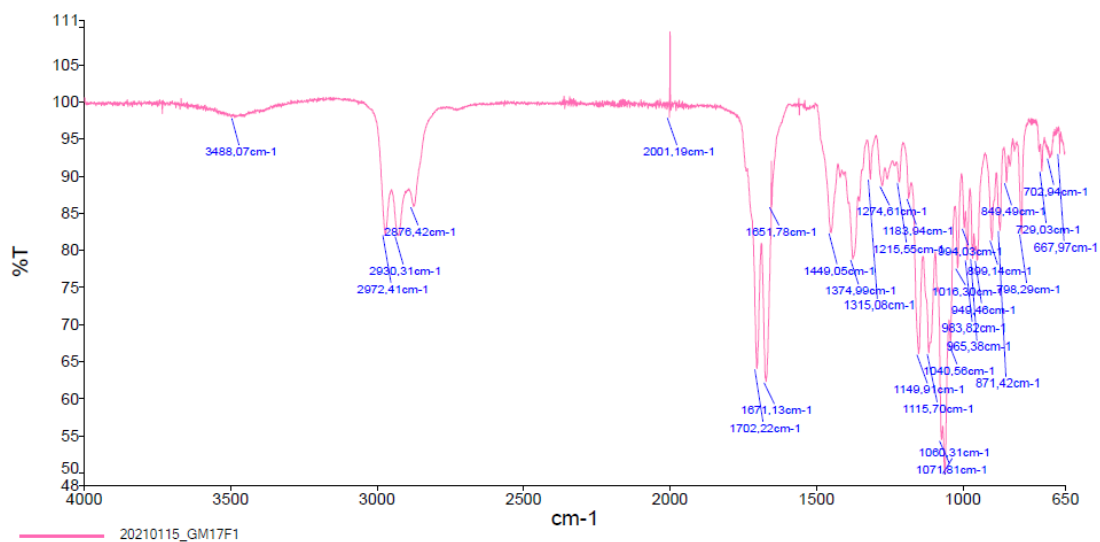
Figure S19. FT-IR spectrum of **15.**
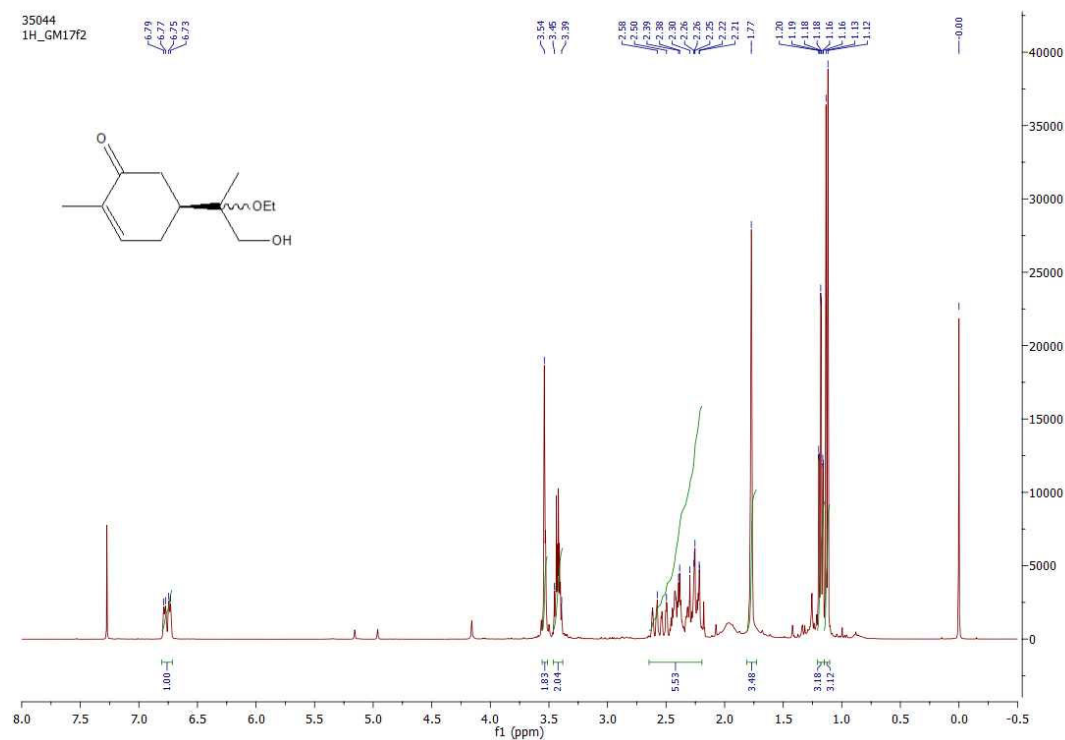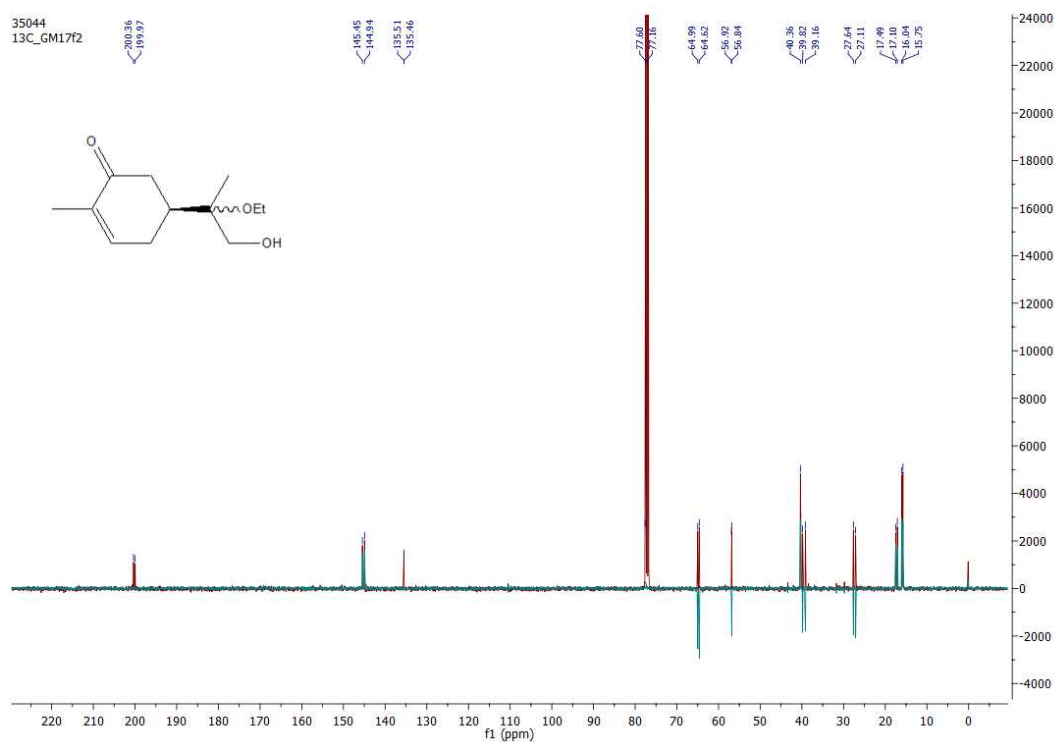

Figure S20. ^{1}H NMR spectrum of **16.**

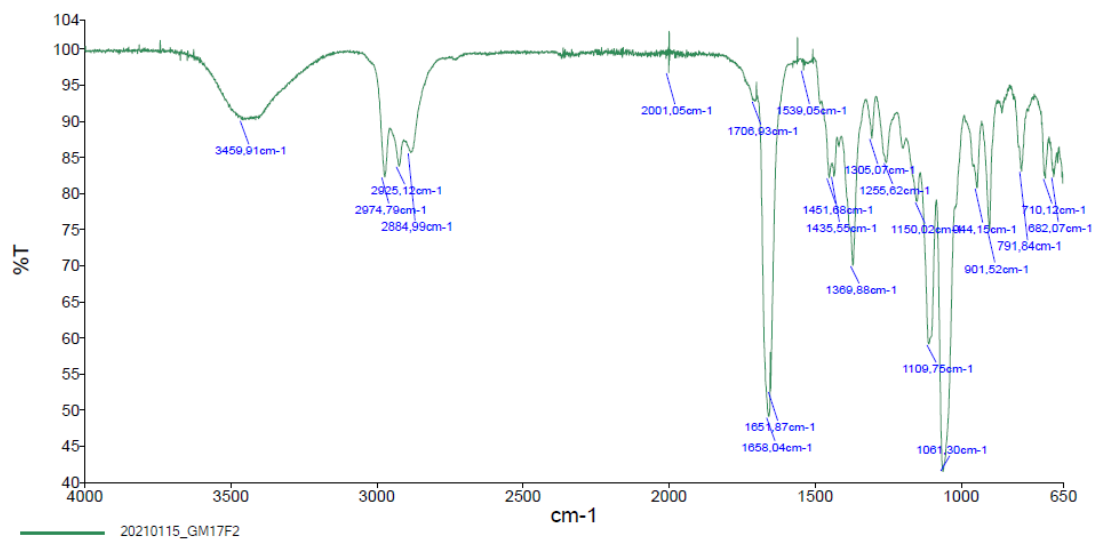**Figure S21.** ^{13}C NMR and DEPT-135 spectra of **16.**
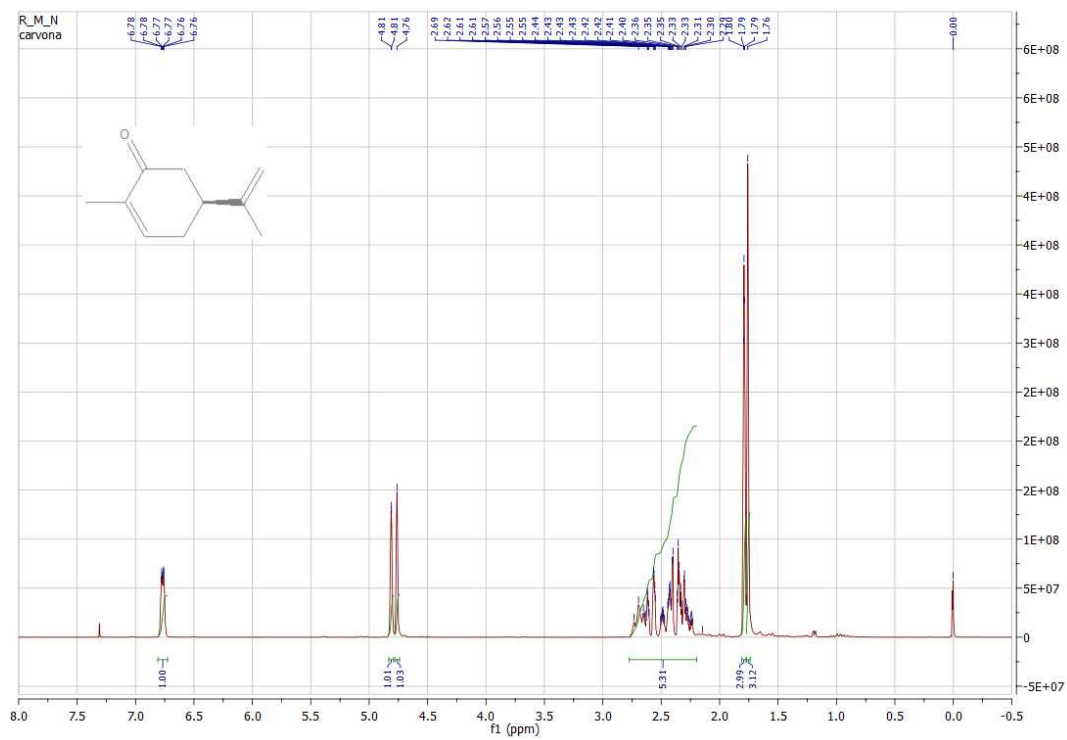

Figure S22. FT-IR spectrum of **16.**
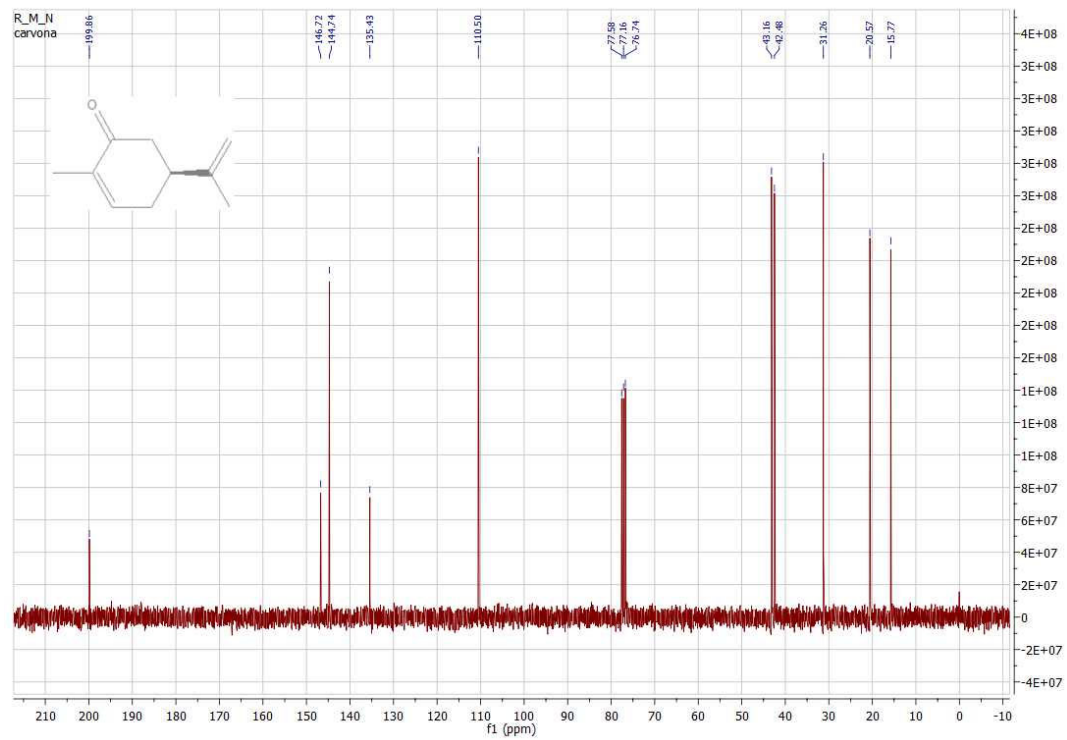
Figure S23. ^{1}H NMR spectrum of Carvone.

Figure S24. ^{13}C NMR spectrum of Carvone.

Uncropped Blots

Figure S25. Uncropped Blots from Fig. 4A
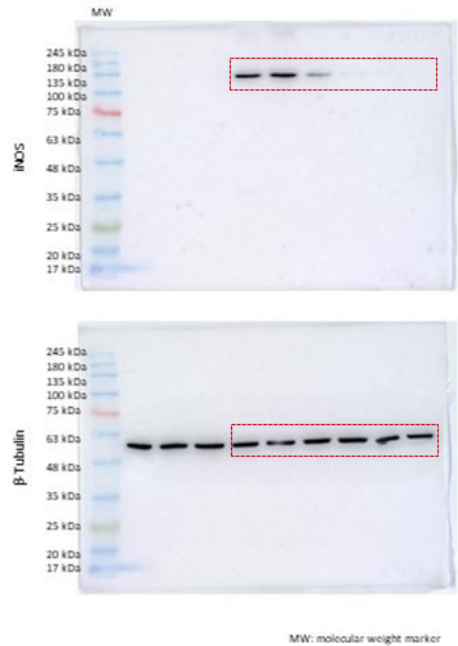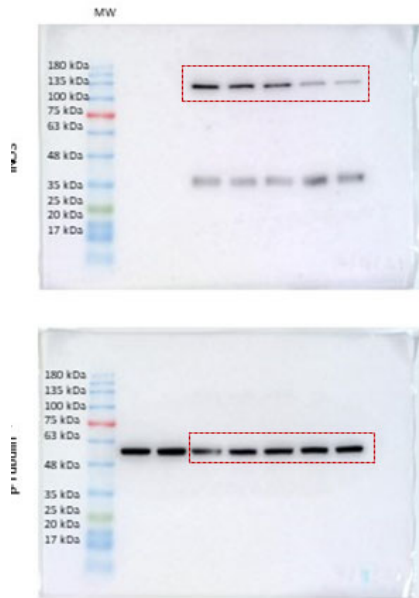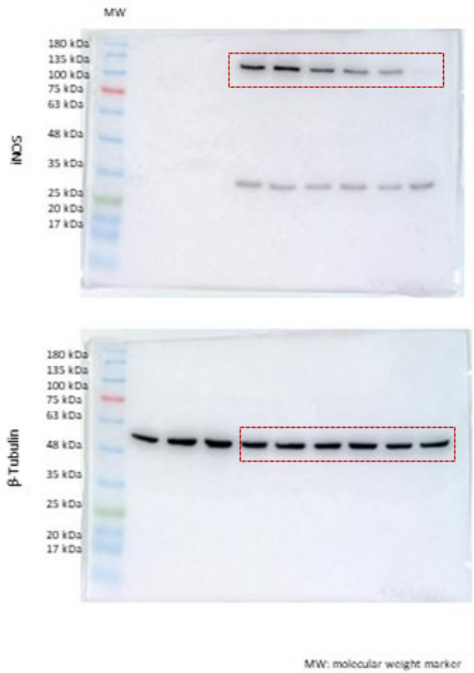
Figure S26. Uncropped Blots from Fig. 4B

MW: molecular weight marker

Figure S27. Uncropped Blots from Fig. 4C

Figure S28. Uncropped Blots from Fig. 4D

* This membrane is the same shown on Fig. 5C

MW: molecular weight marker

The membrane from Fig. 4A was cut at ≈ 68 kDa so that the upper piece was incubated with anti-iNOS antibody and the lower one with the anti-β-tubulin I antibody. The membranes from Figs. 4C and 4D were probed with the anti-iNOS antibody without stripping the anti-pro-IL-1β antibody.

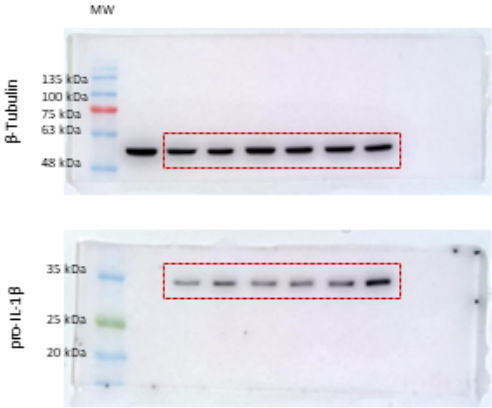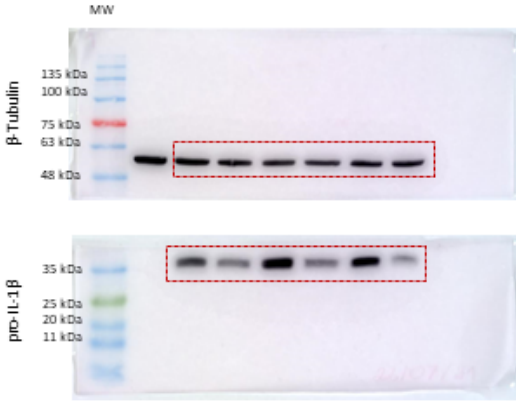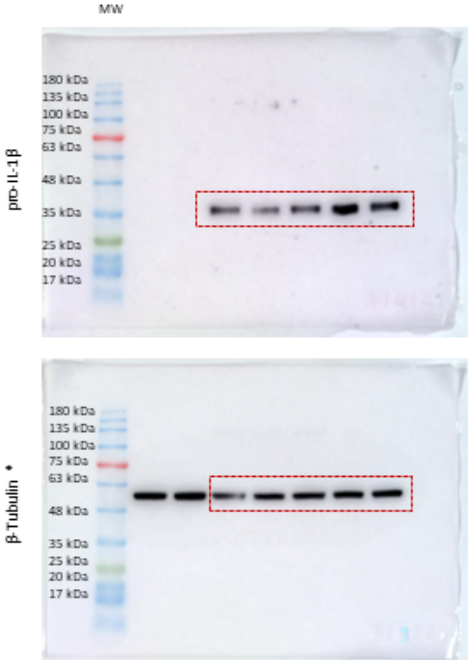Figure S29. Uncropped Blots from Fig. 5A

Figure S30. Uncropped Blots from Fig. 5B
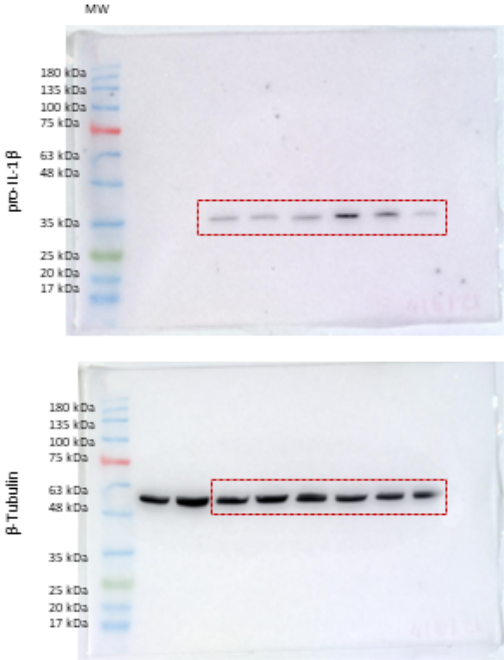
MW: molecular weight marker

The membranes from Fig. 5A and 5B were cut at ≈ 43 kDa so that the upper pieces were incubated with the anti-β-tubulin I antibody and the lower ones with the anti-pro-IL-1β antibody.

Figure S31. Uncropped Blots from Fig. 5C

* This membrane is the same shown on Fig. 4C

Figure S32. Uncropped Blots from Fig. 5D

MW: molecular weight marker