Supplementary data

Figure S1. Full Scan - Positive and ESI-MS spectra of four *Arrabideae chica* morphotypes collected at summer (S) and winter (W)

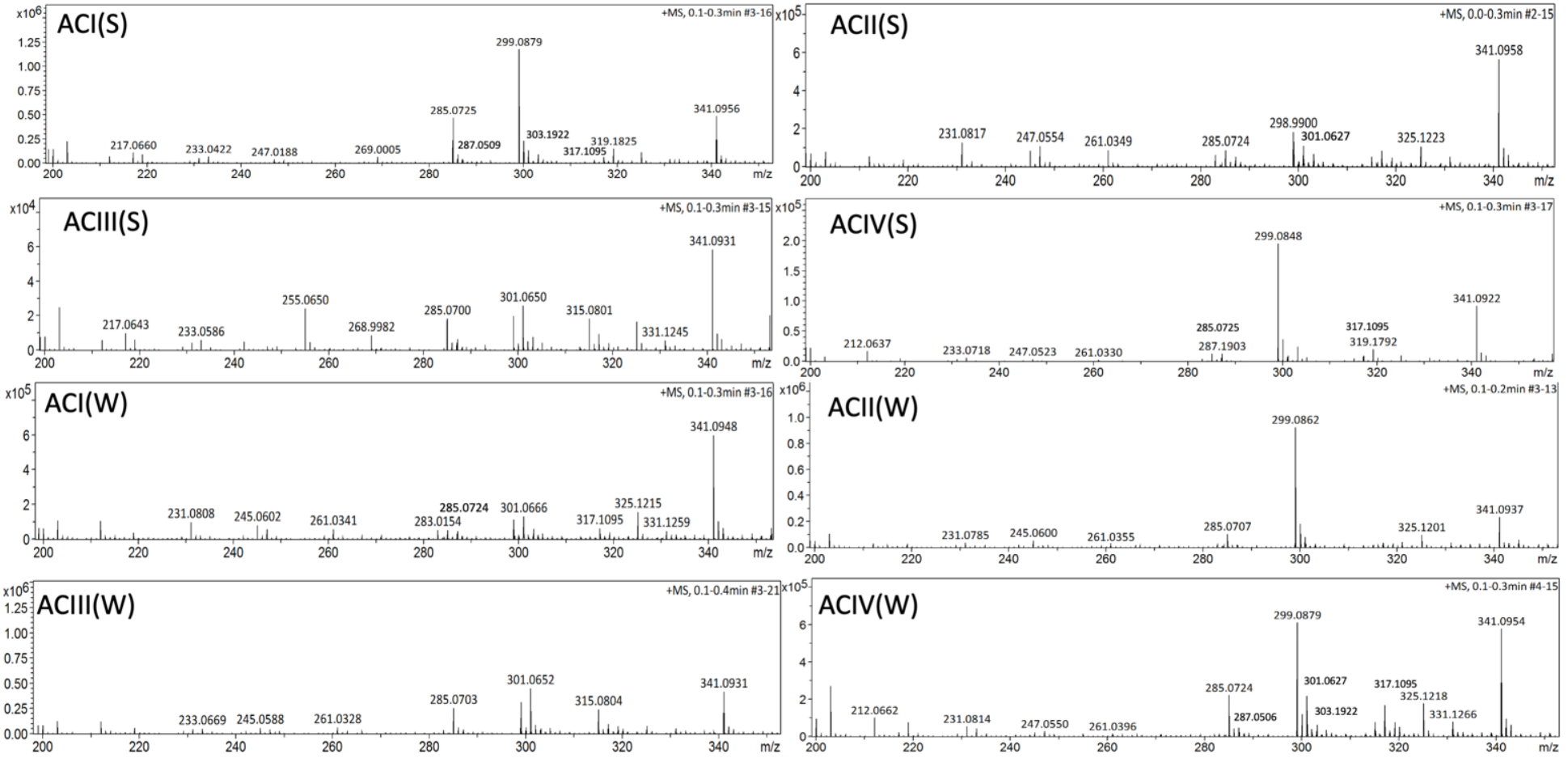
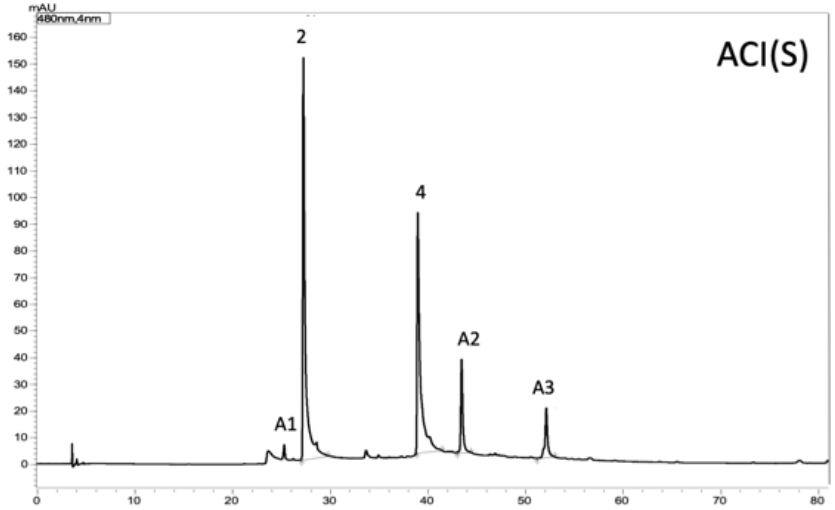
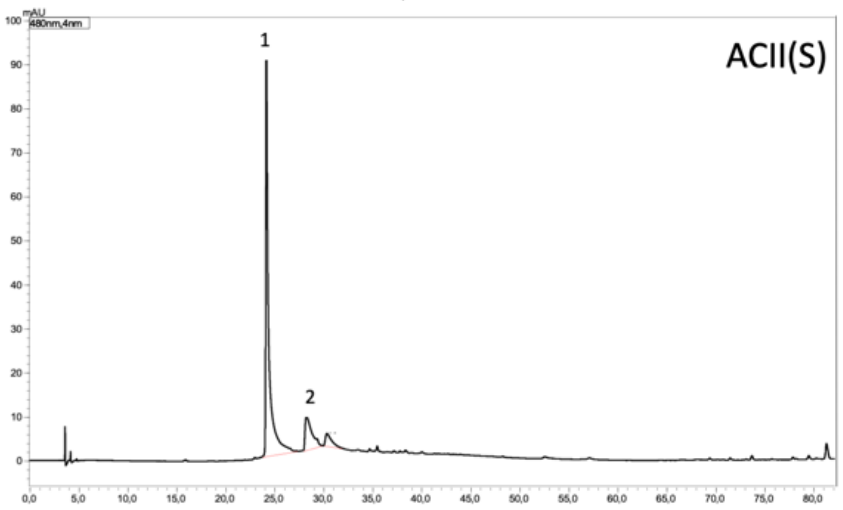
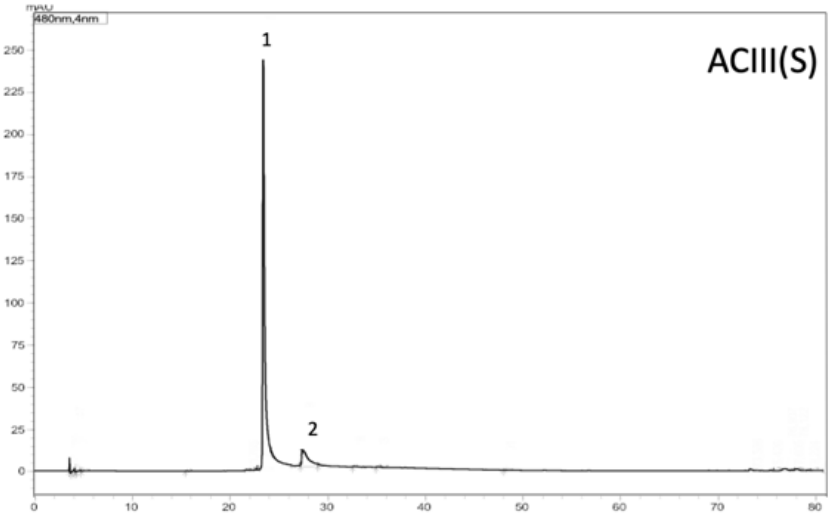


Figure S2. HPLC Profiles detected at 480 nm. Chromatograms of morphotypes I – IV of *Arrabidaea chica* collected in summer (S)







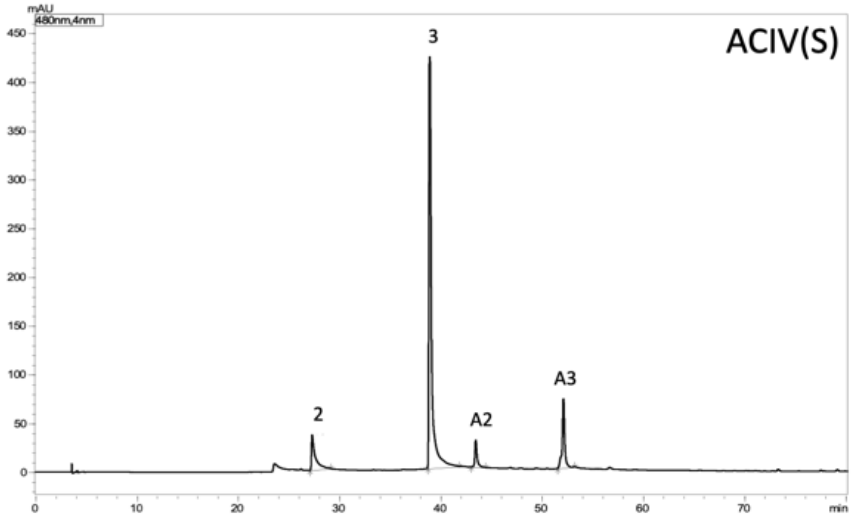


Figure S3. HPLC Profiles Detected at 480 nm. Chromatograms of morphotypes I – IV of *Arrabidaea chica* Verlot collected in winter (W)

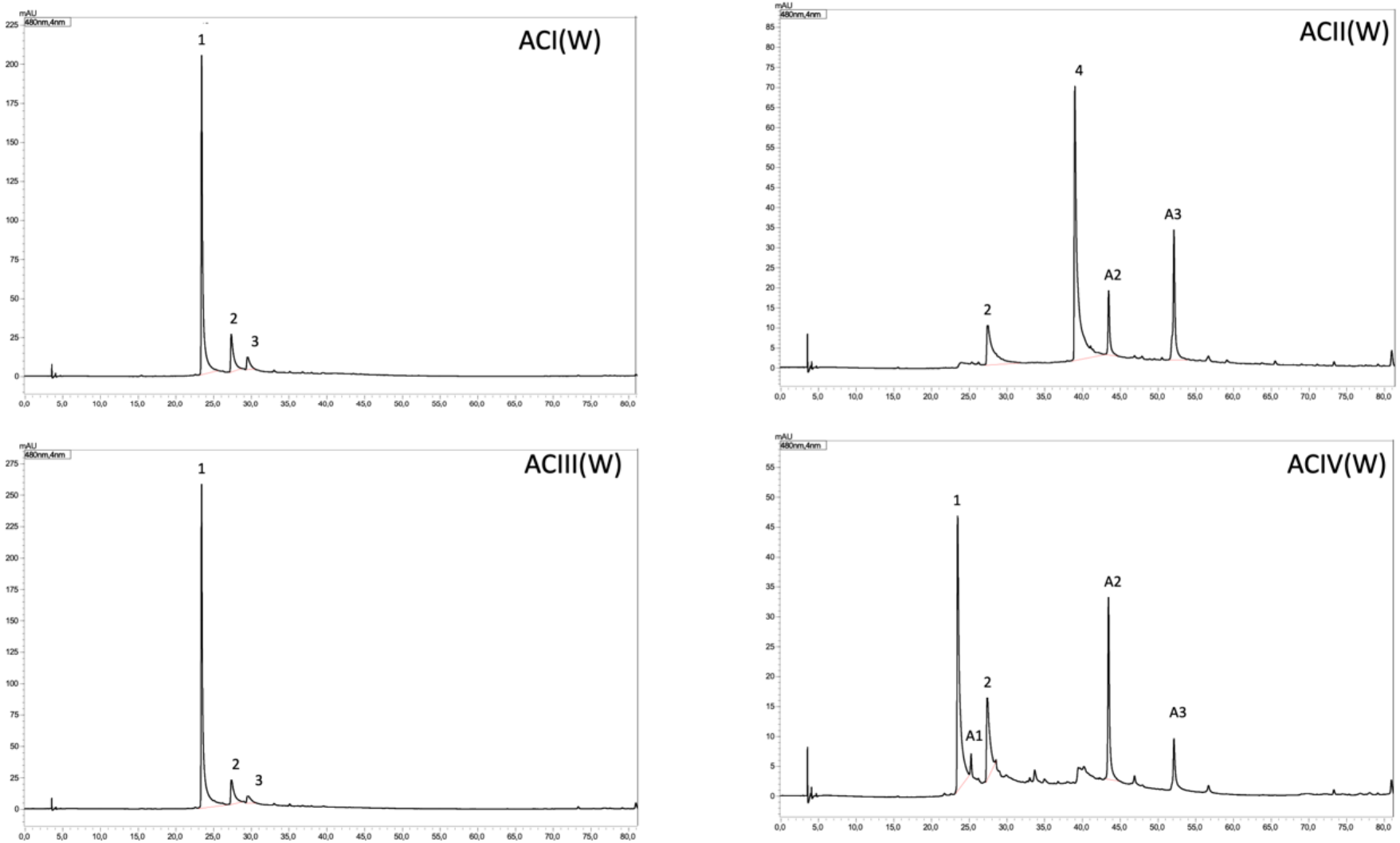
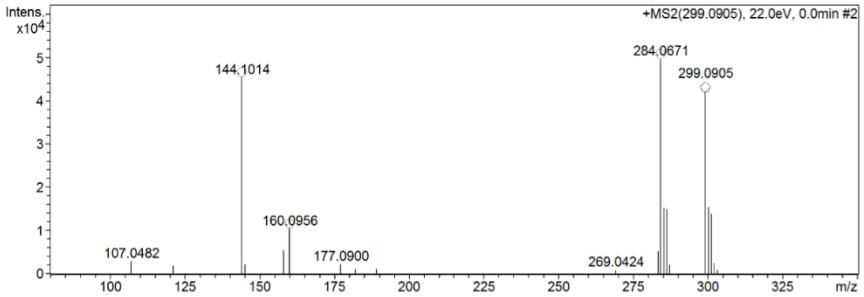
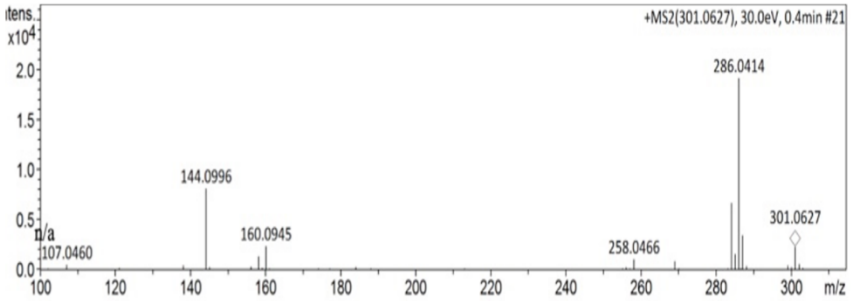
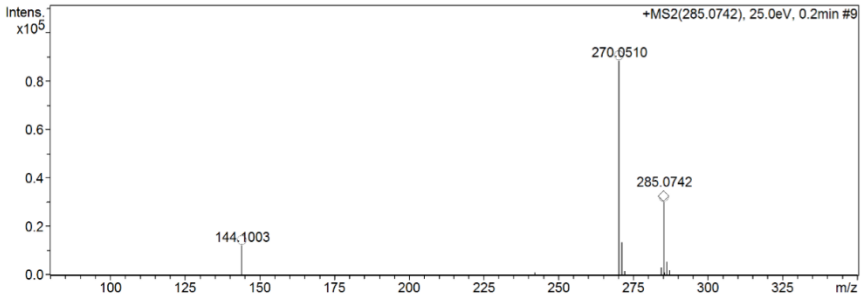


Figure S4. ESI-MS/MS for the anthocyanidin ions (**1-4**) from *Arrabideae chica* using collision energies ranging from 15 to 35 eV.







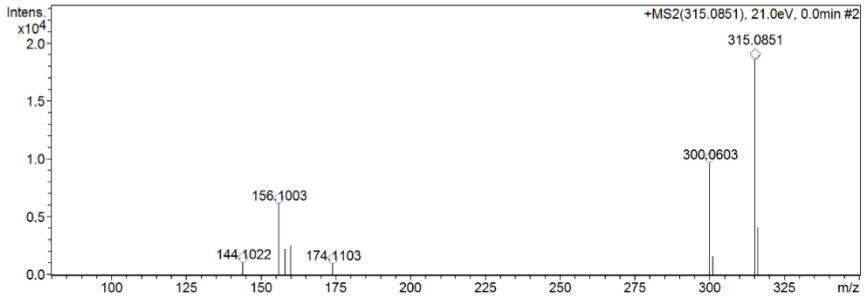


Figure S5. ^{1}H NMR spectrum (400 MHz) of carajurin (4)

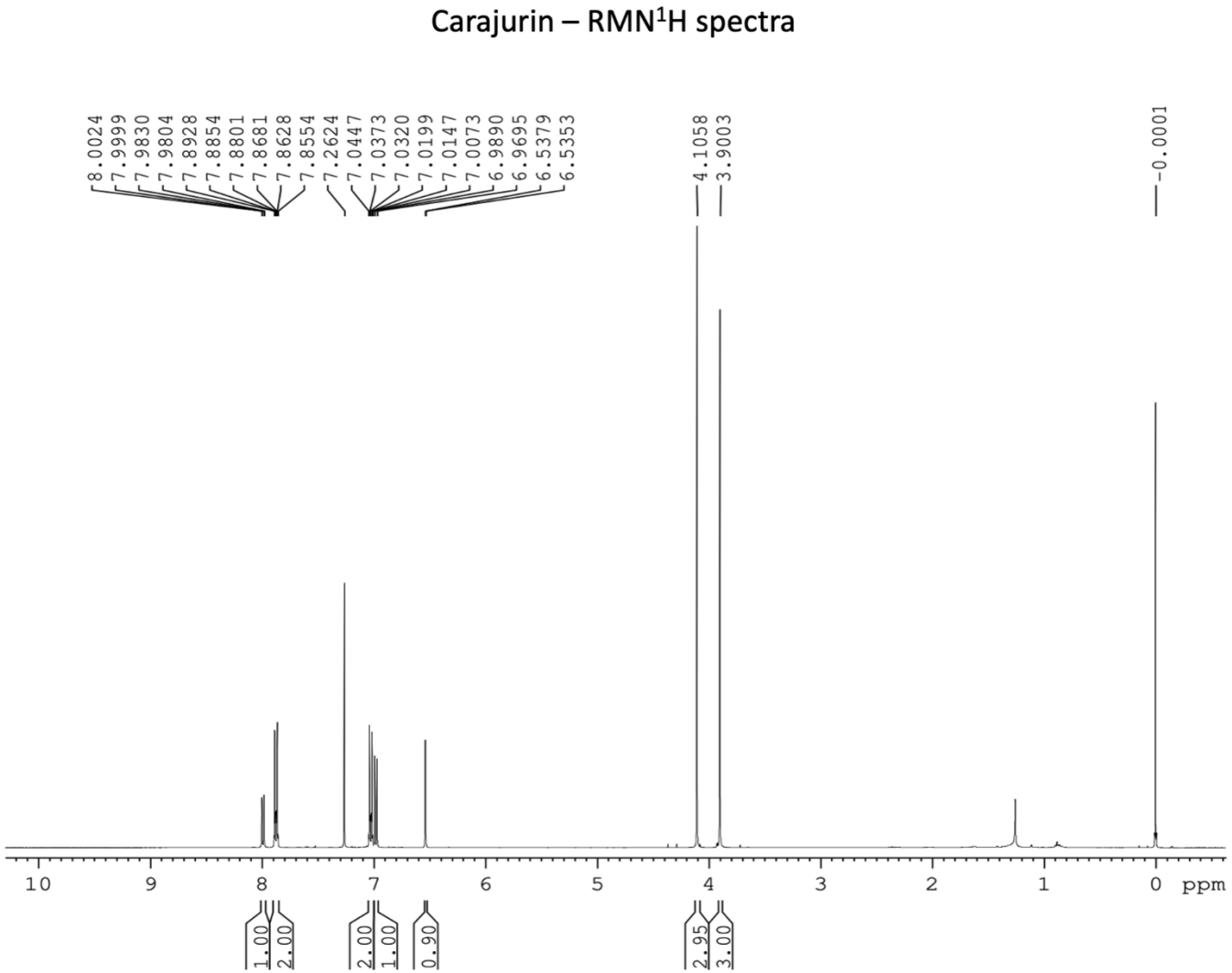


Figure S6. ^{13}C NMR (100 MHz) spectrum of carajurin (4)

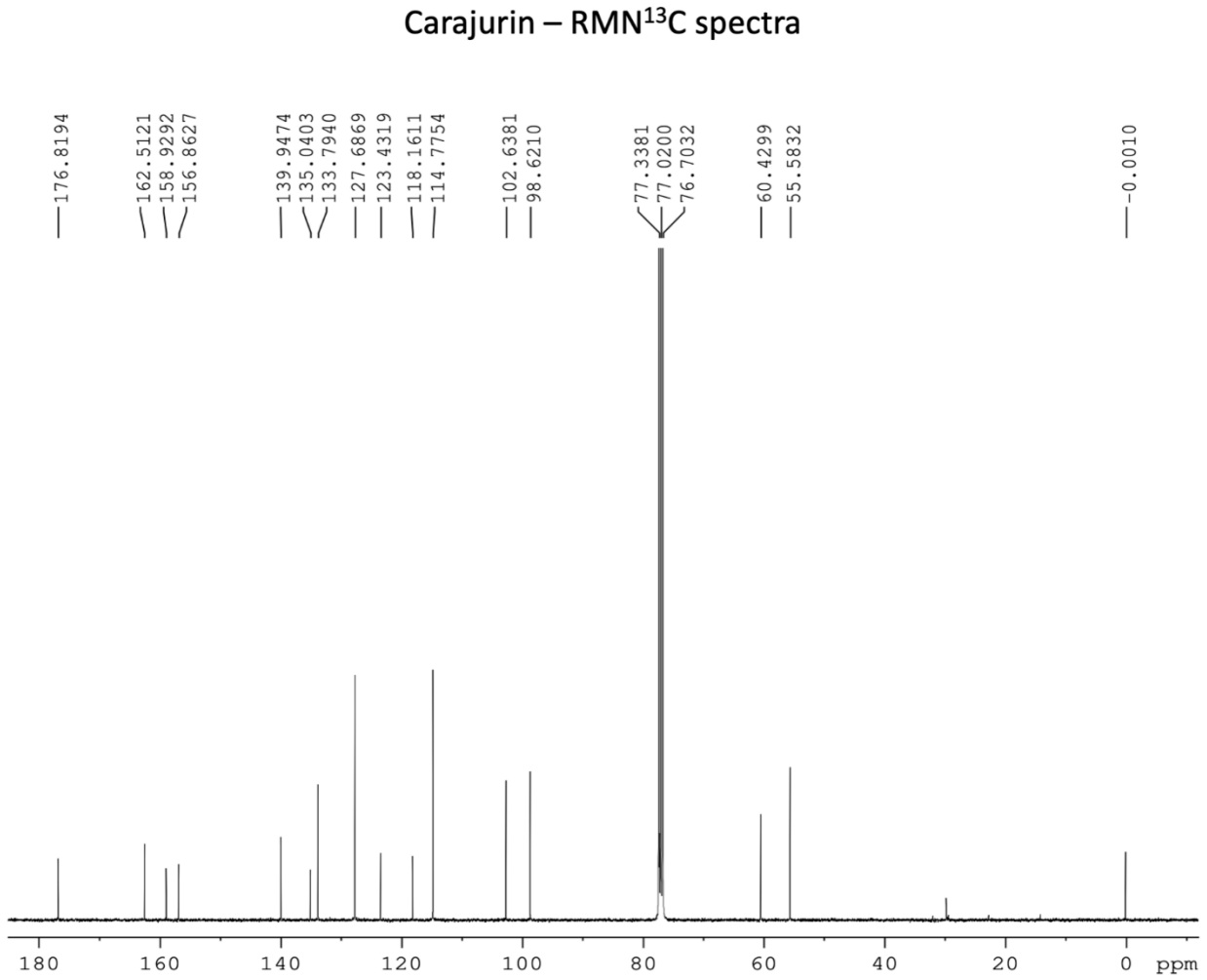


Figure S7. Analytical curve (20 – 200 μg/mL) of the carajurin (4).