Supplementary material for the article: High resolution UHPLC-MS characterization and isolation of main compounds from the antioxidant medicinal plant *Parastrephia lucida* (Meyen)

Figure S1. HSCCC chromatogram of *P. lepidophylla* ethanolic extract at 254 nm.

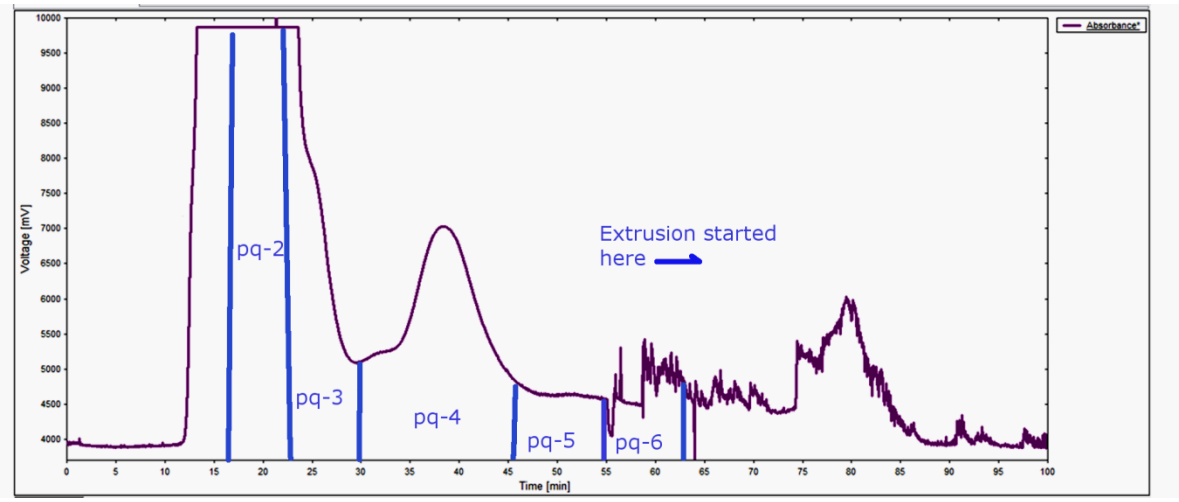


Figure S2. ^{1}H NMR (300 MHz) spectrum of 11-p-coumaroyoxytremetone (peak 35).

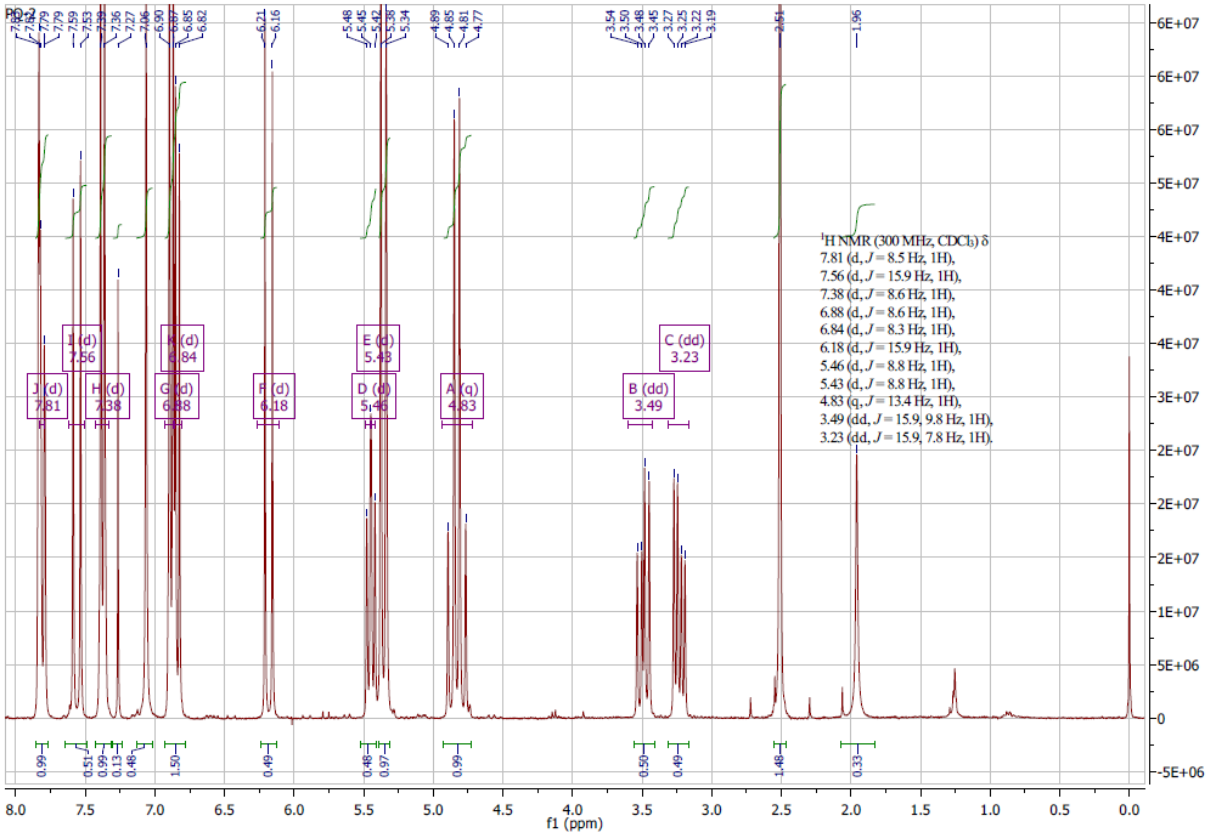


Figure S3. ^{13}C NMR (100.25 MHz) spectrum of 11-p-coumaroyoxytremetone (peak 35).

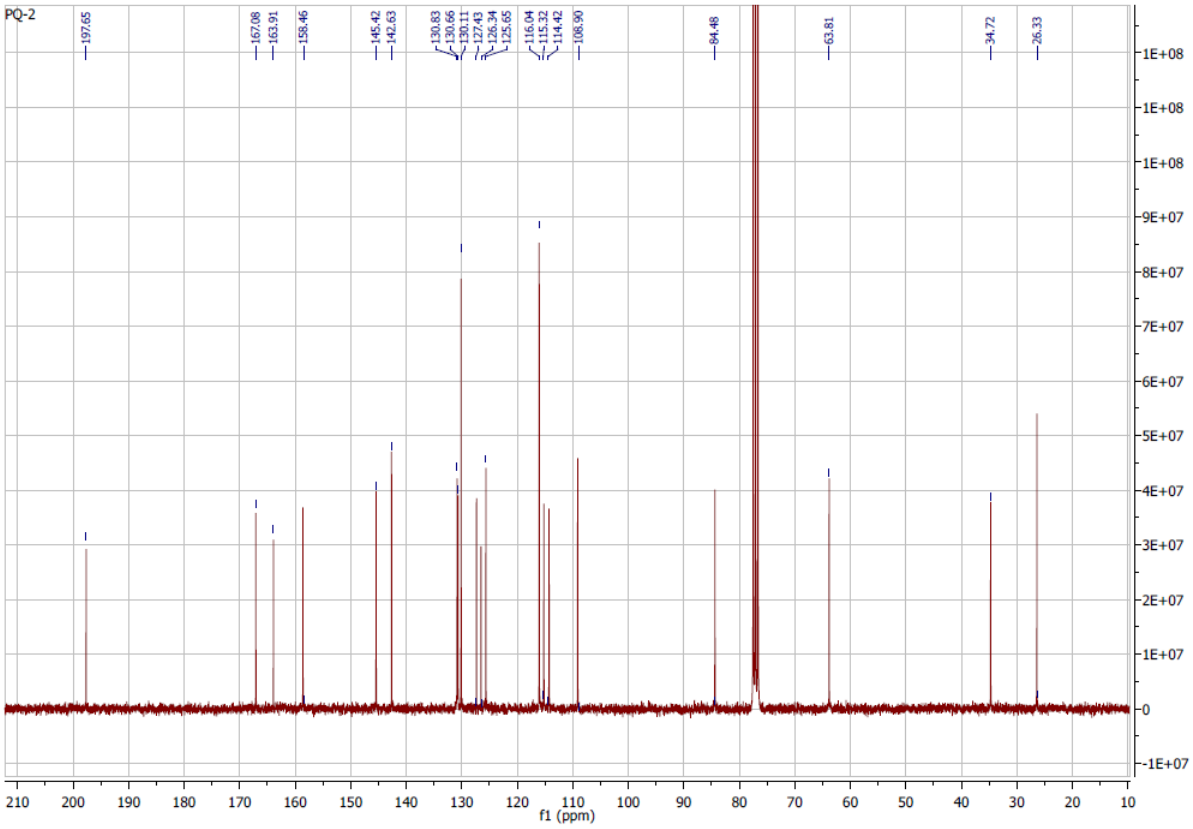


Figure S4. HSQC spectrum of 11-p-coumaroyoxytremetone (peak 35).

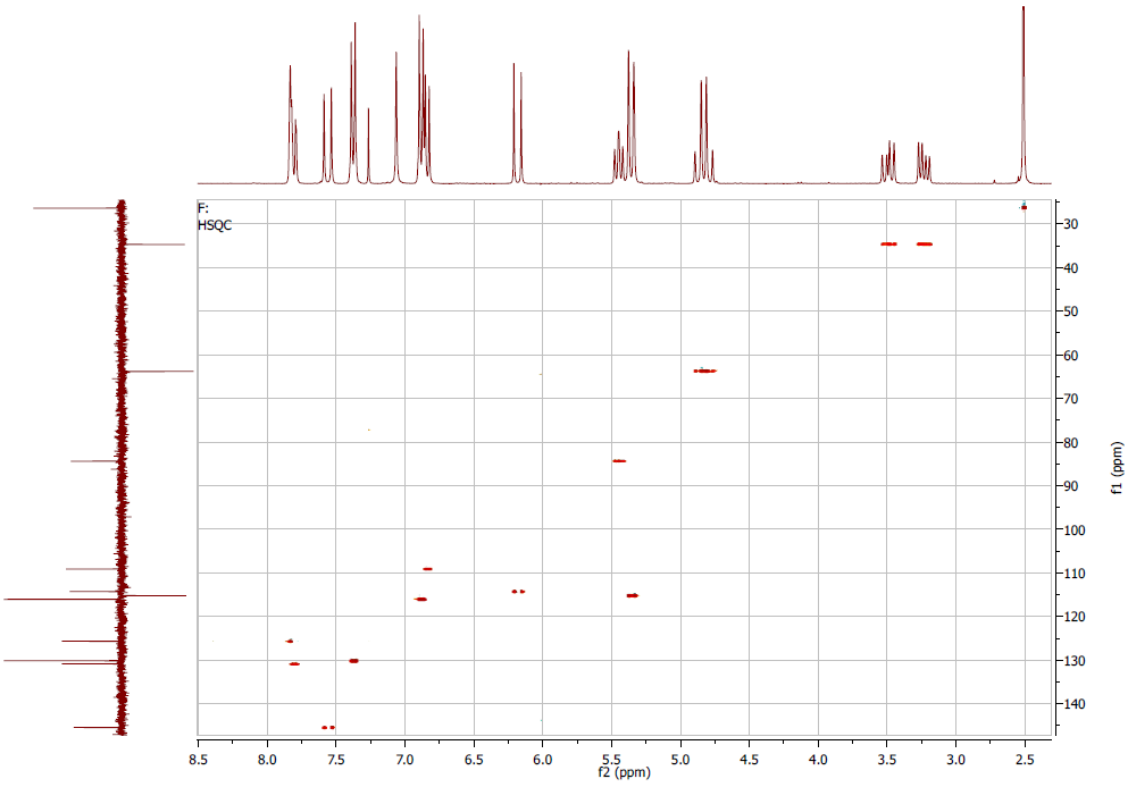


Figure S5. HMBC spectrum of 11-p-coumaroyoxytremetone (peak 35).

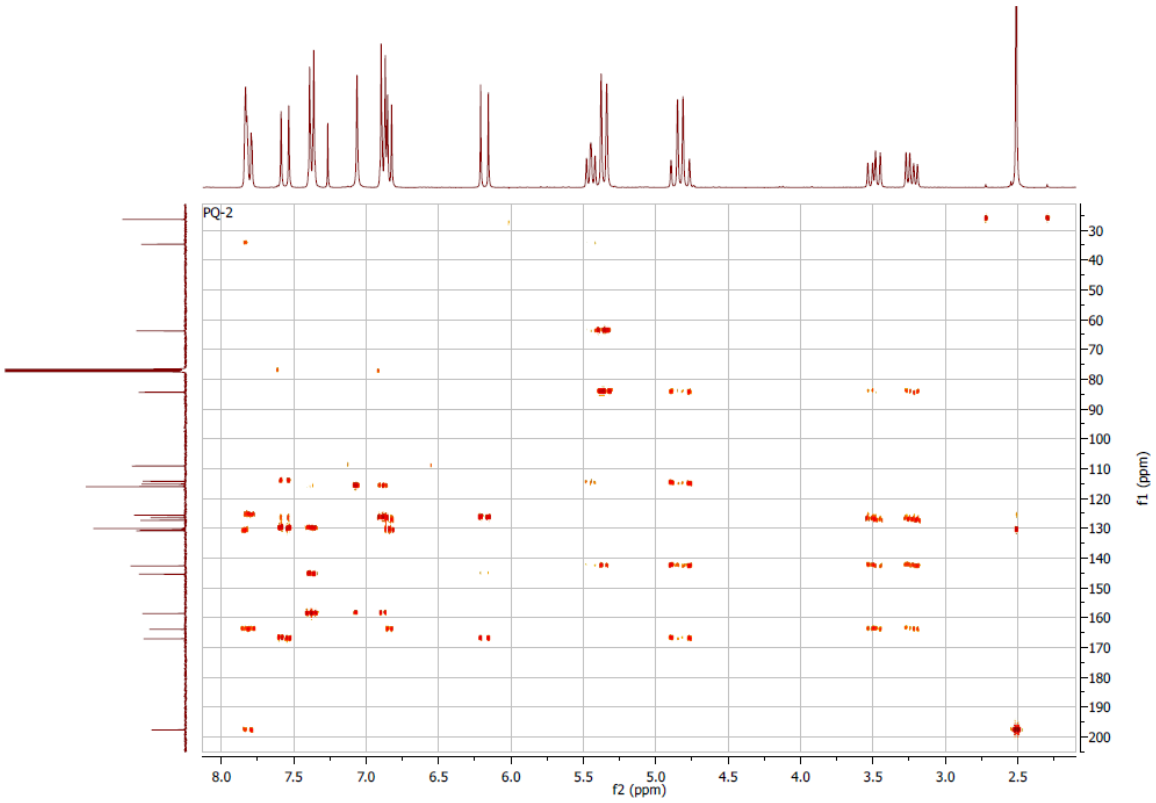


Figure S6. ^{1}H NMR (300 MHz) spectrum of s bacchalineol A (peak 42).

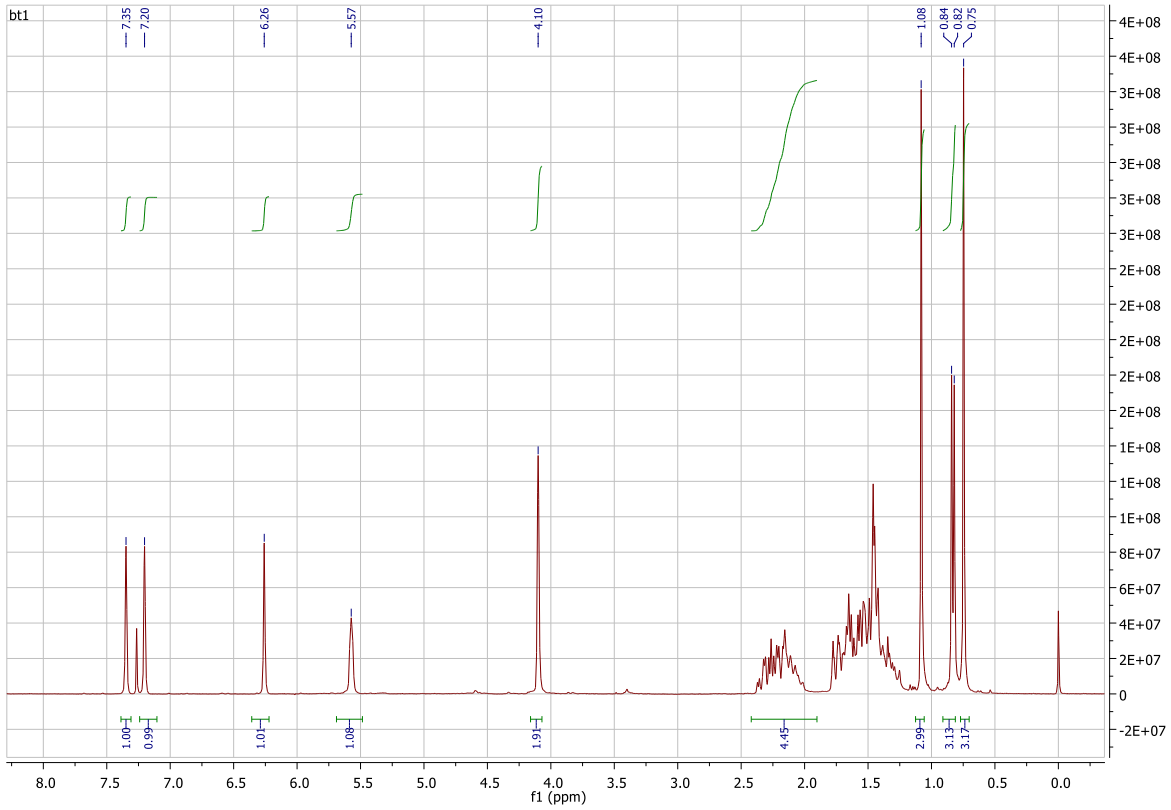


Figure S7. ^{13}C NMR (100.25 MHz) spectrum of bacchalineol A (peak 42).

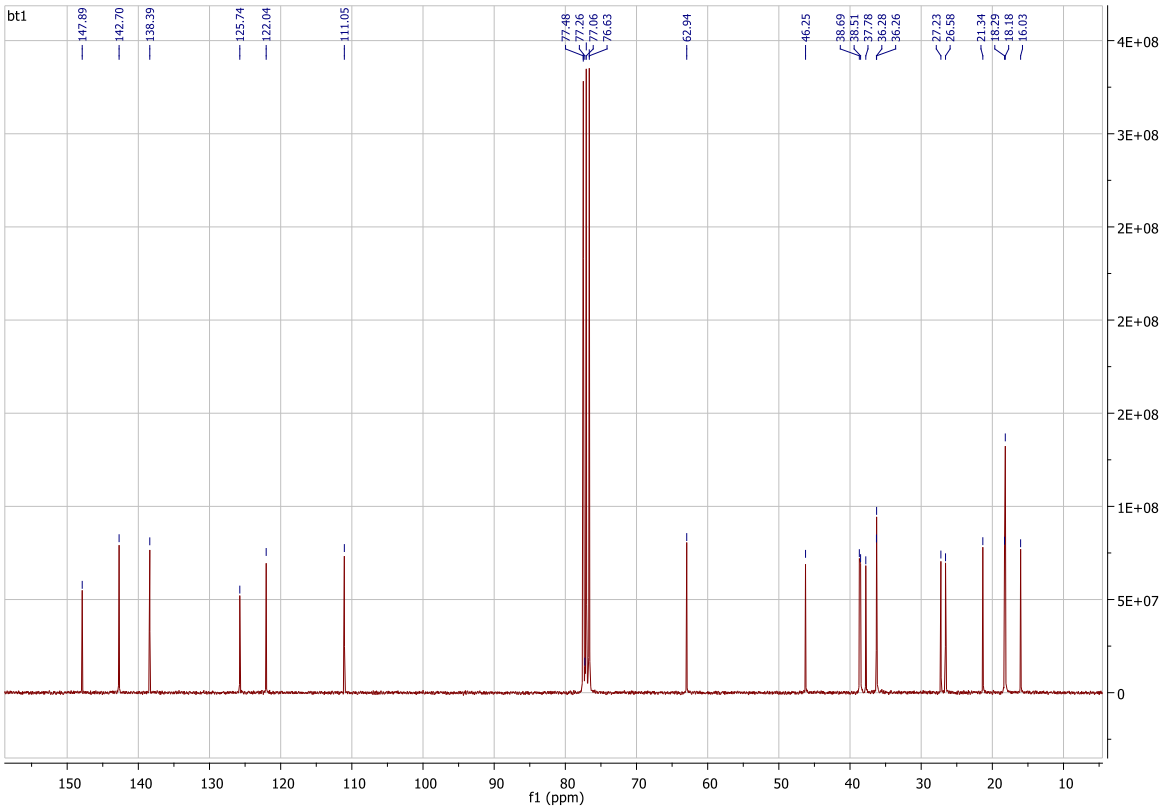


Figure S8. HMBC spectrum of bacchalineol A (peak 42).

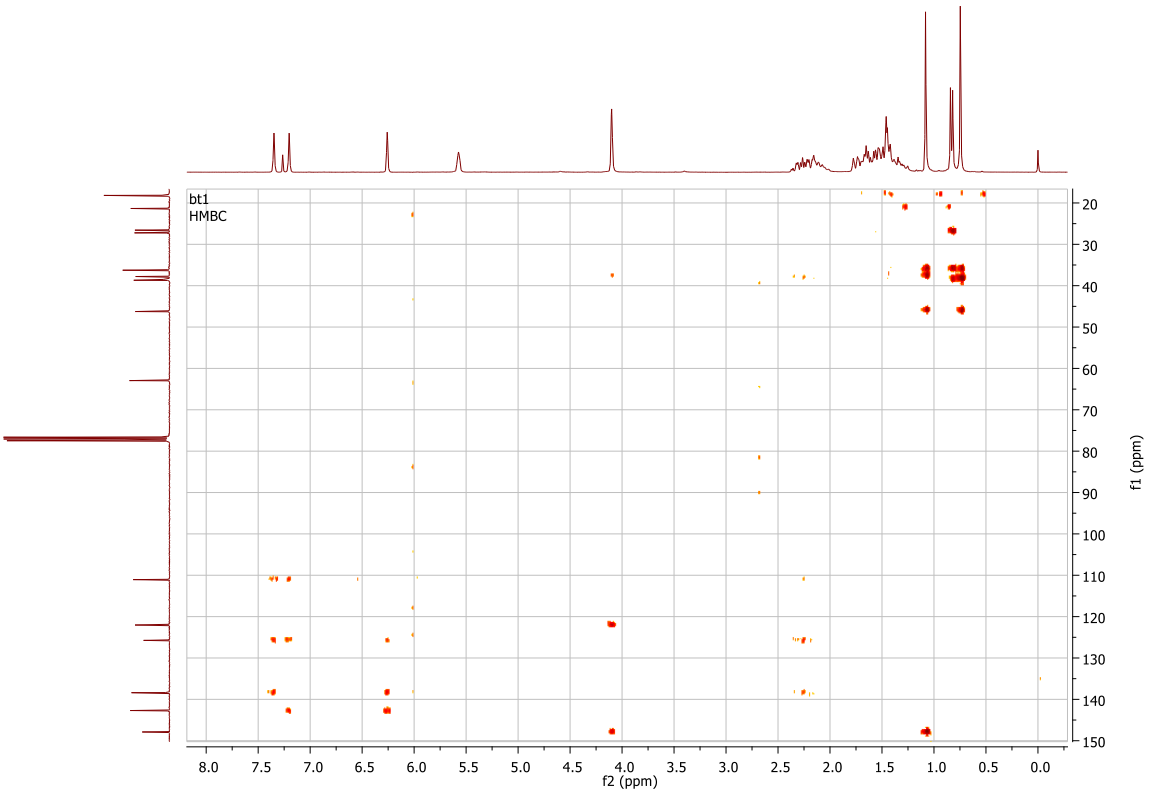


Figure S9. HSQC spectrum of bacchalineol A (peak 42).

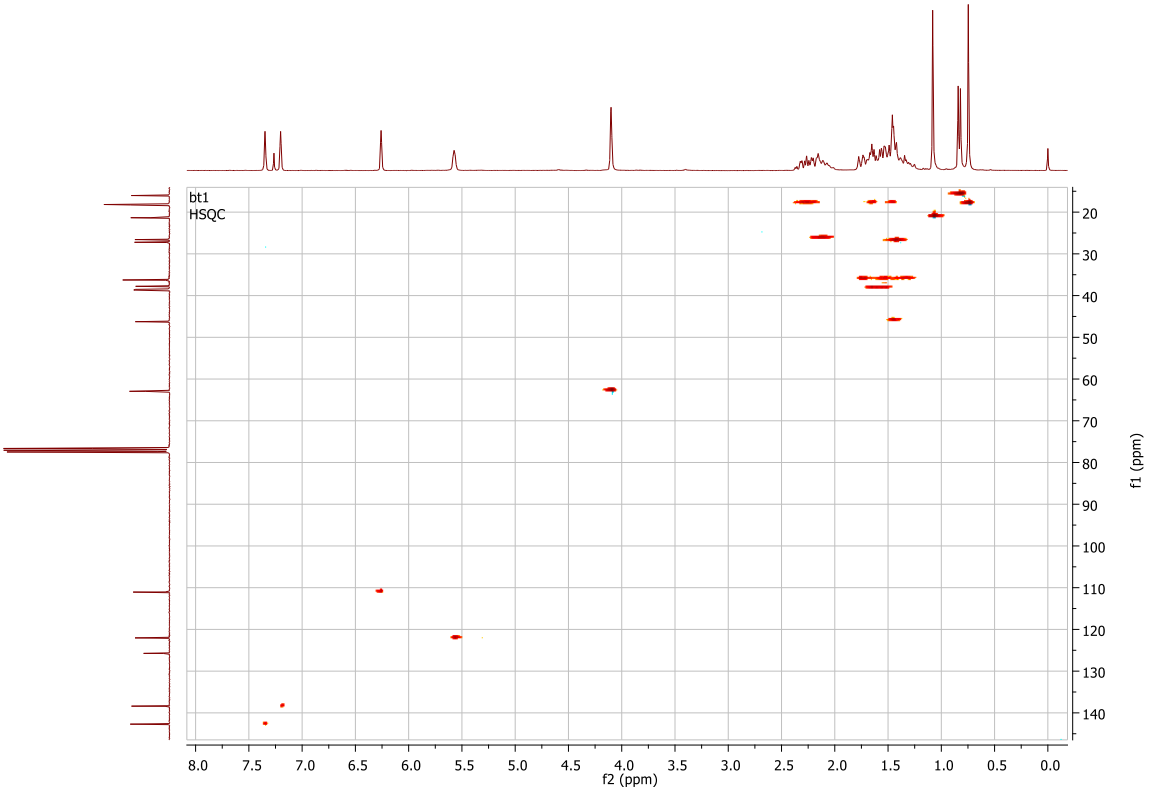
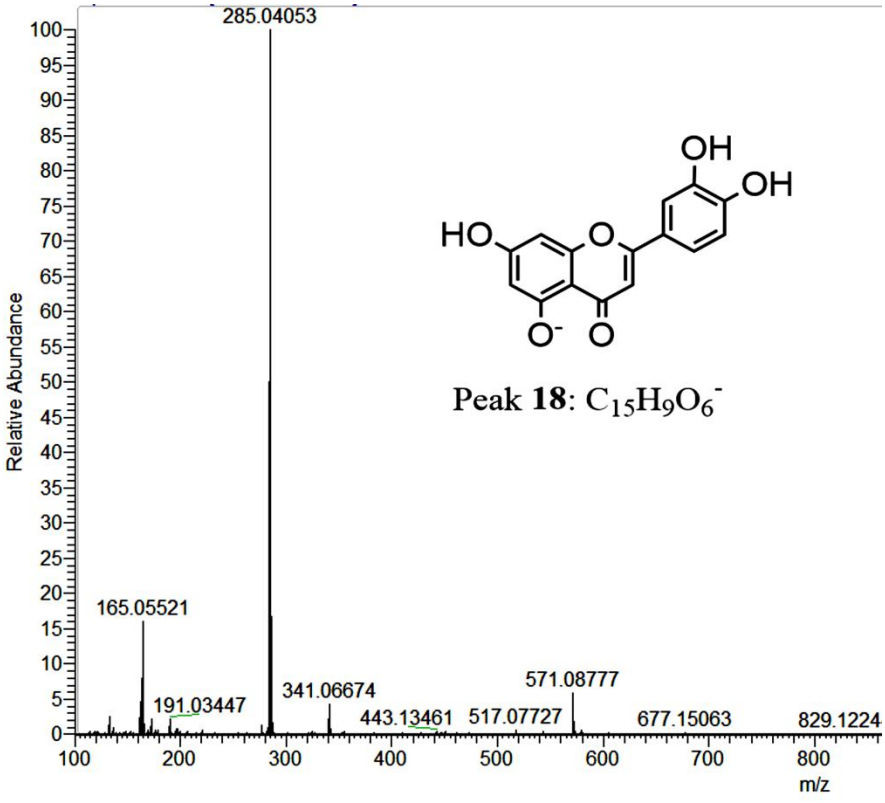
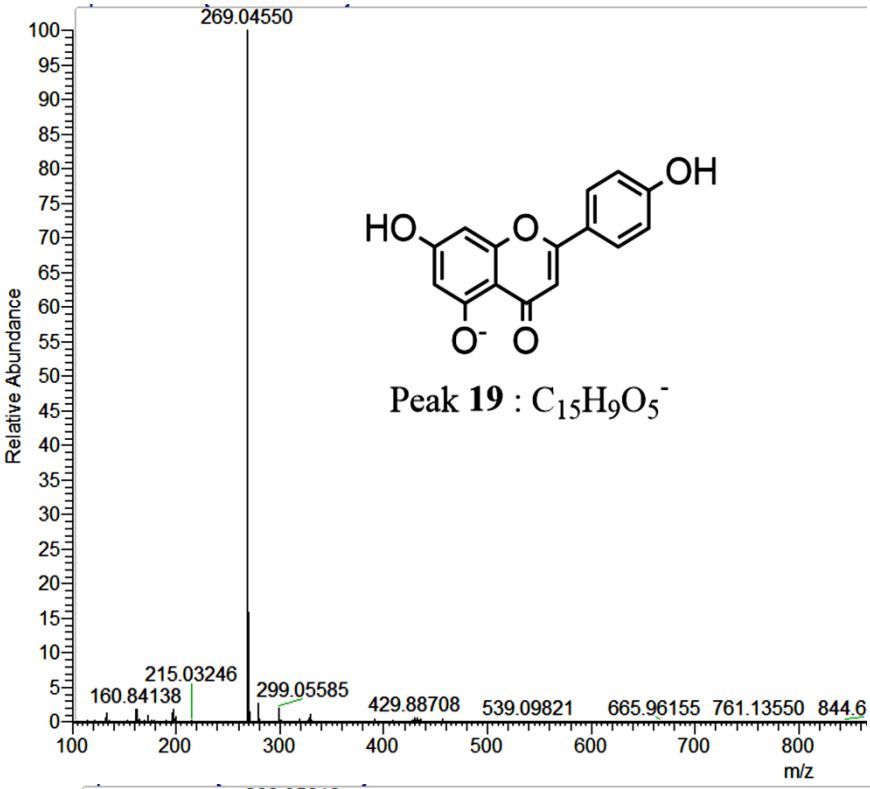
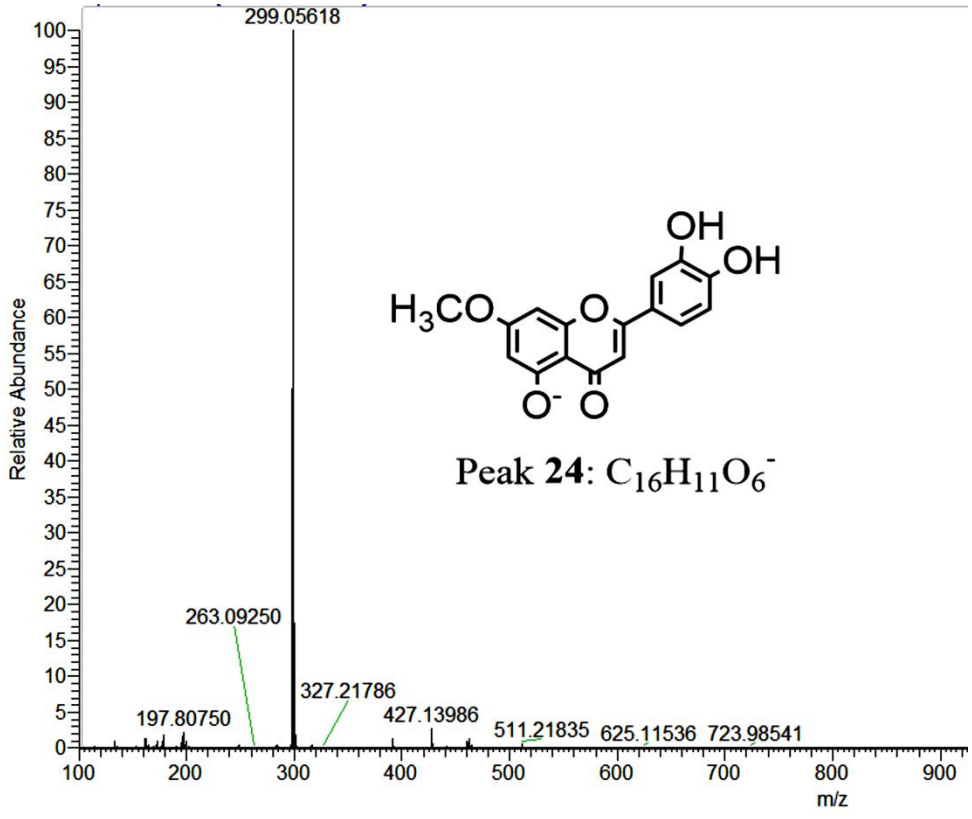


Fig S10. Full HR-MS spectra of peaks 18,19, 24, 28, 32, 35 and 36.

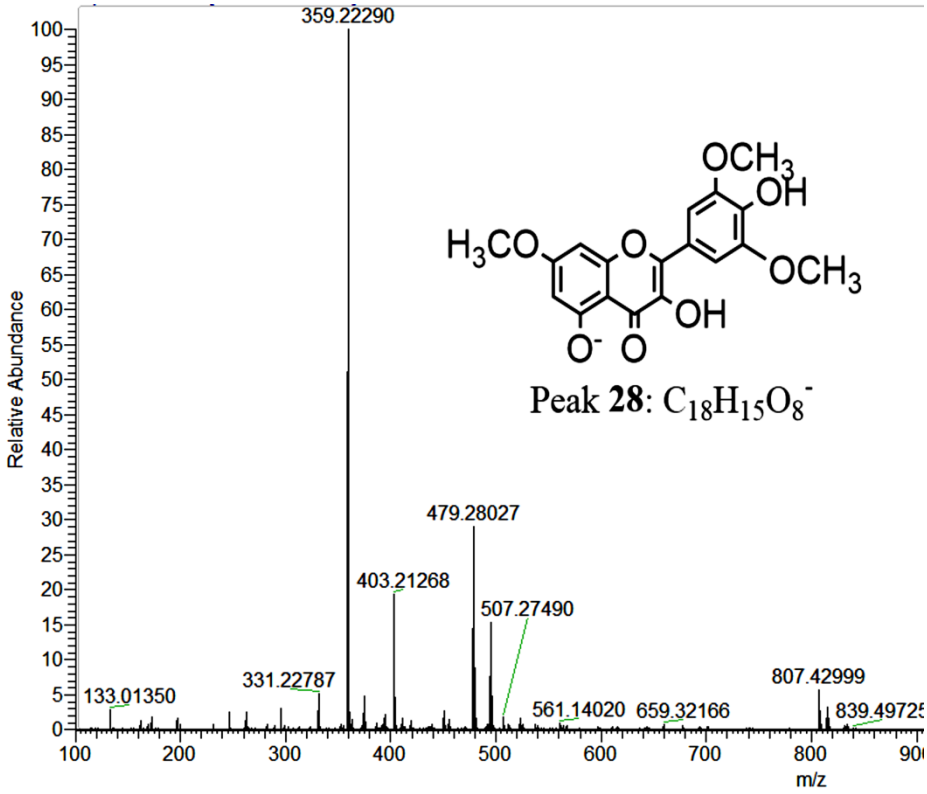




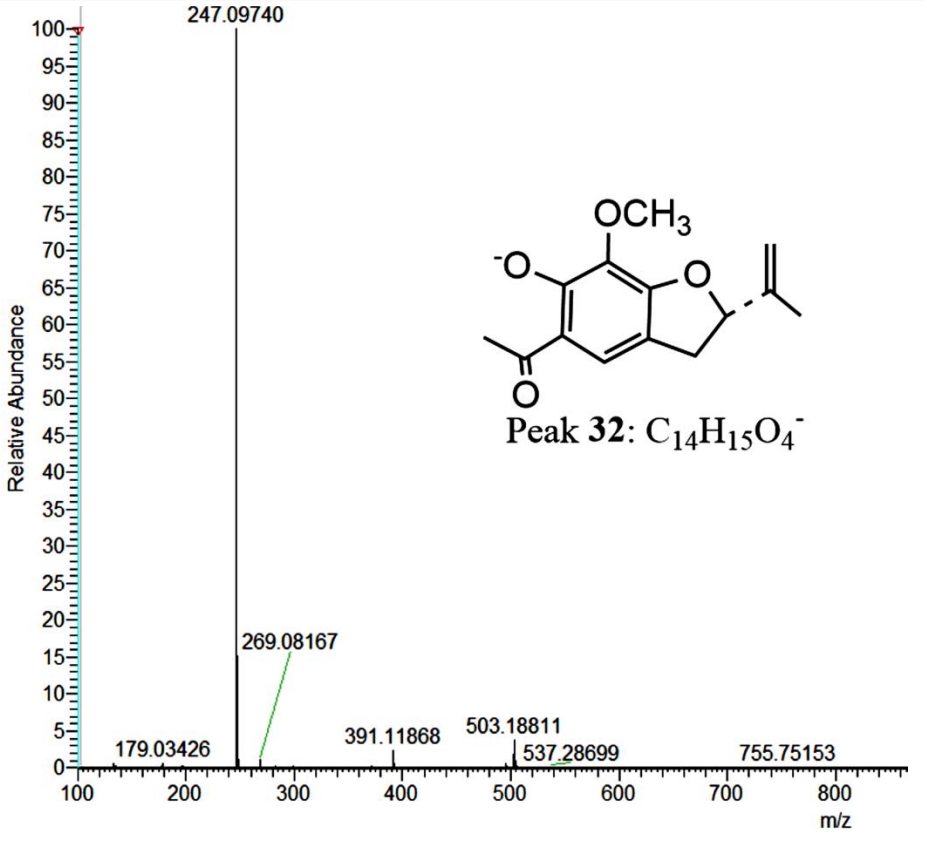
Peak **19** : $C_{15}H_9O_5^-$



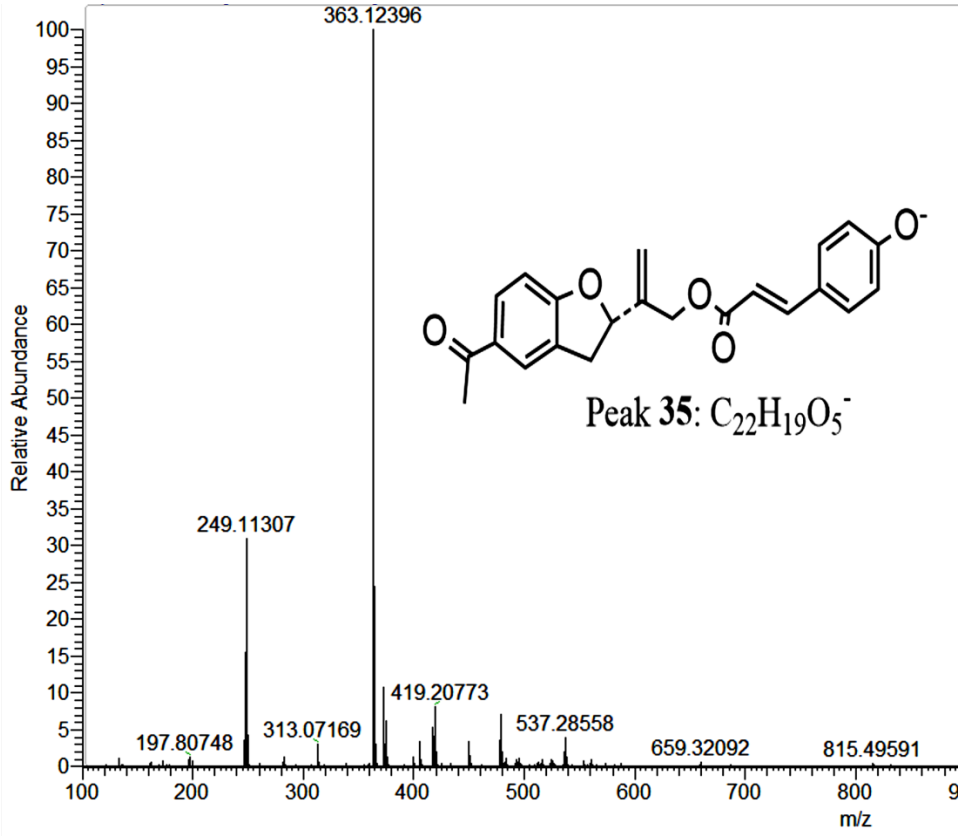
Peak **24**: $C_{16}H_{11}O_6^-$



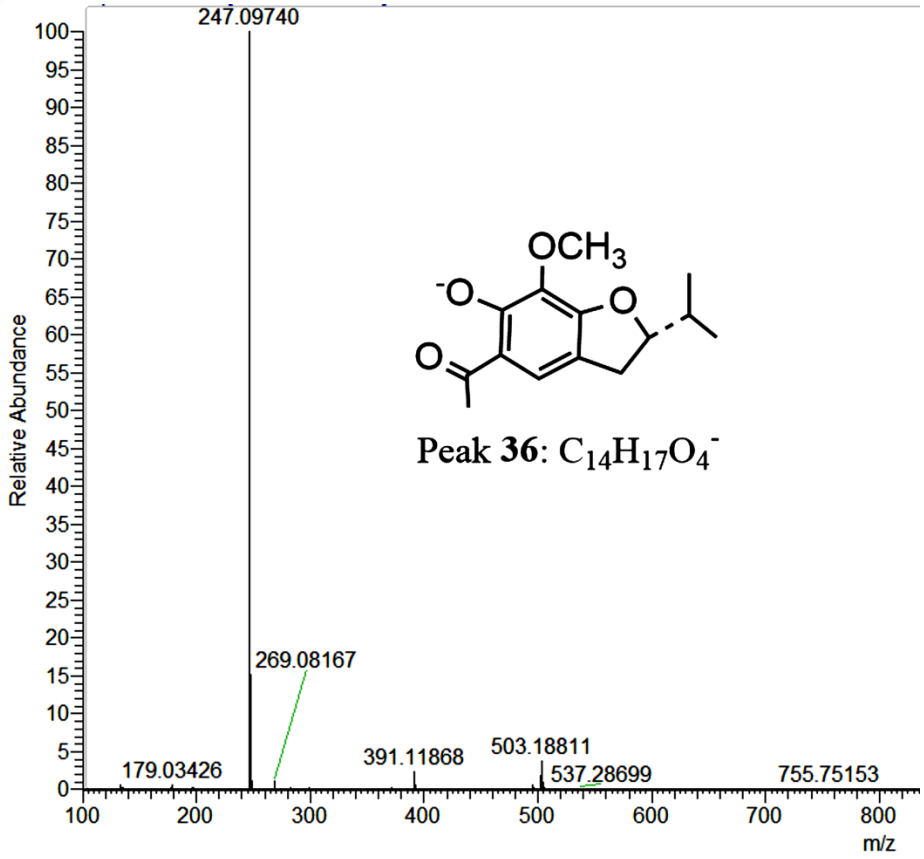
Peak **28**: $C_{18}H_{15}O_8^-$



Peak **32**: $C_{14}H_{15}O_4^-$



Peak **35**: $C_{22}H_{19}O_5^-$



Peak **36**: $C_{14}H_{17}O_4^-$

Fig. S11**.** Proposed biosynthetic pathways for the flavonoid derivatives.

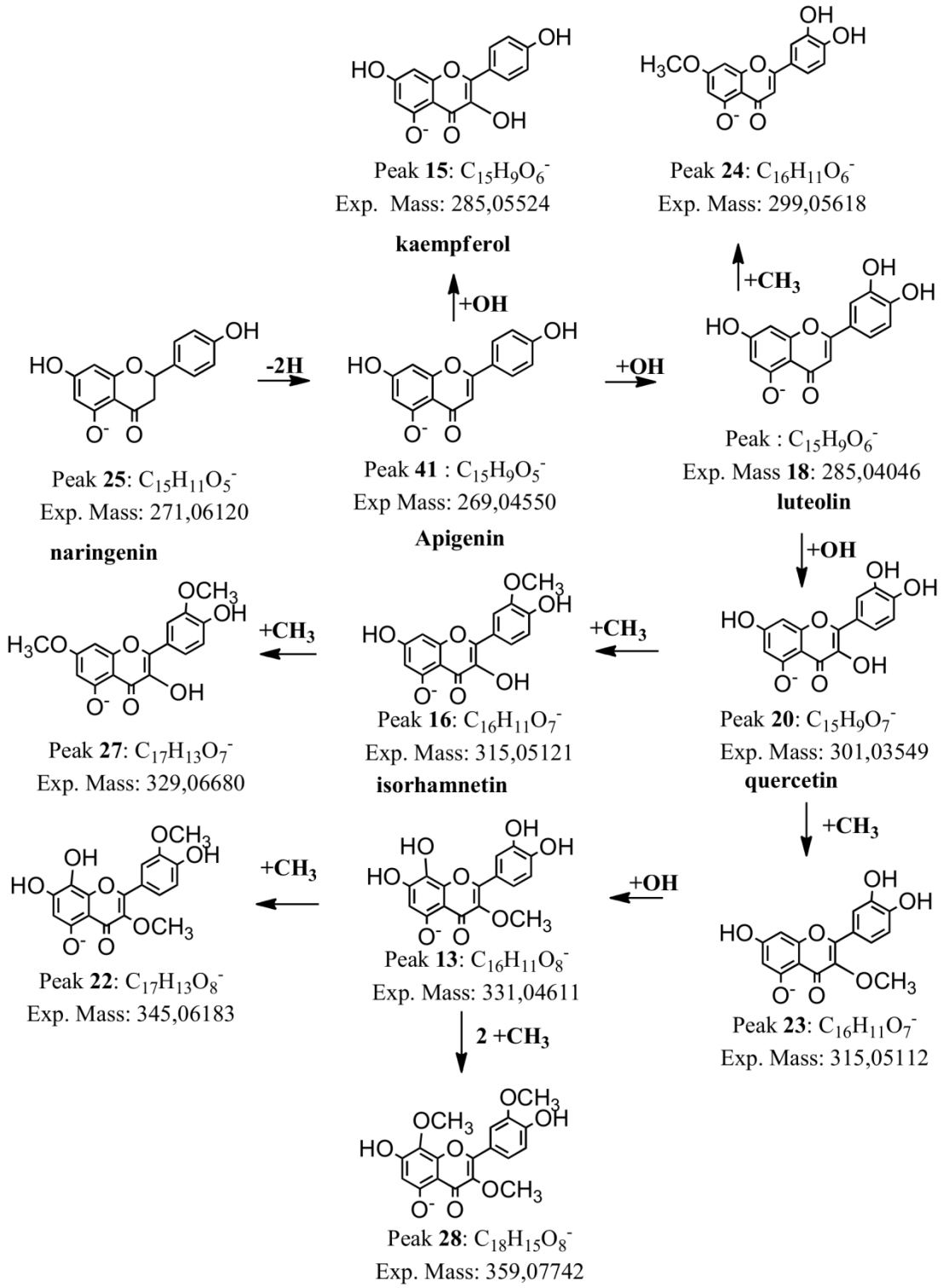


Fig. S12. Proposed biosynthetic relationships for the phenolic acid or coumarin derivatives.