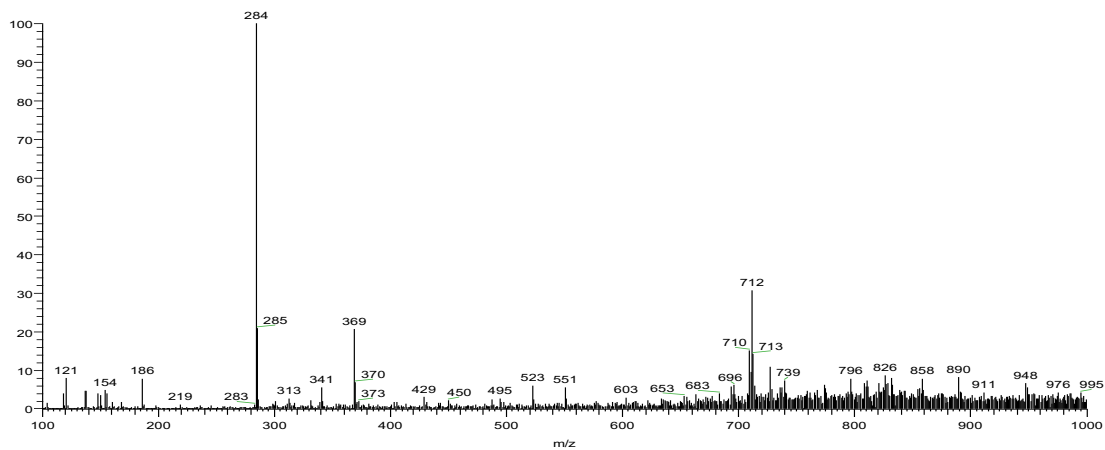
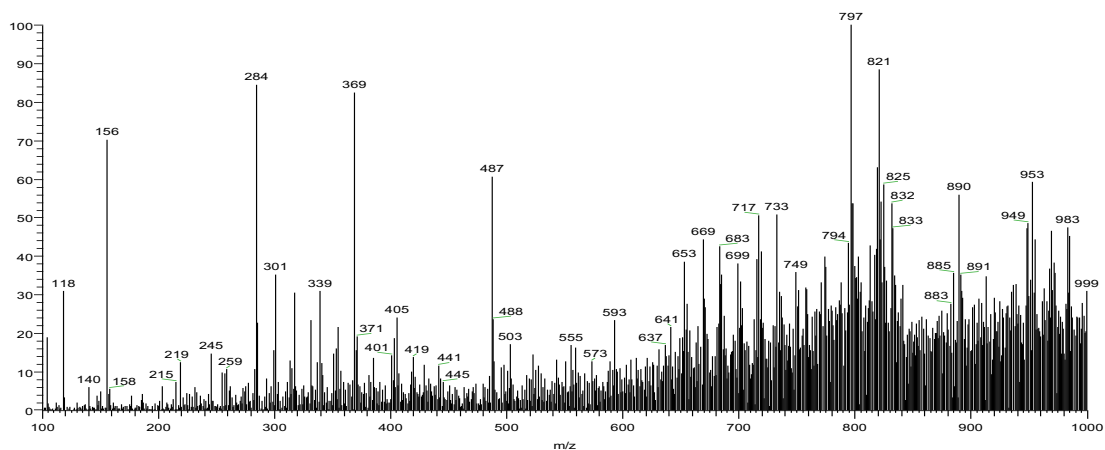
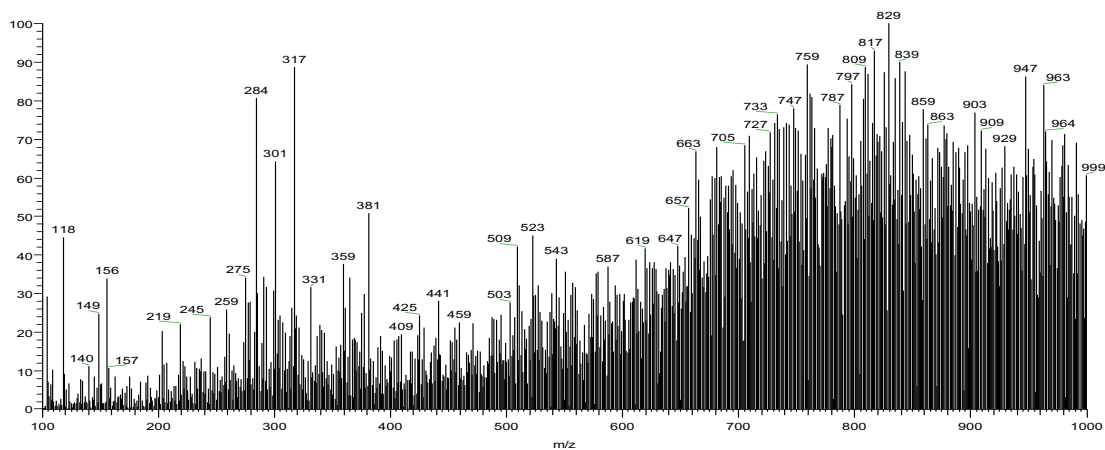
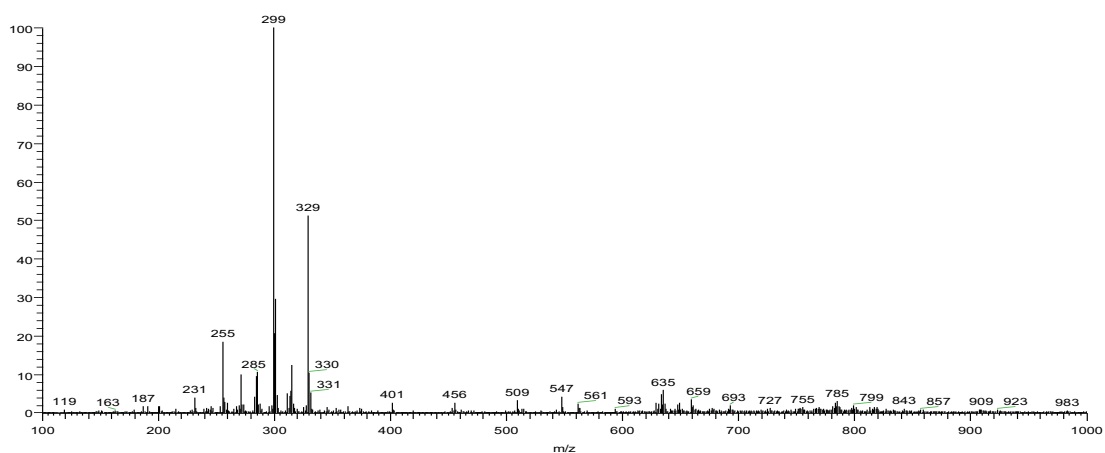


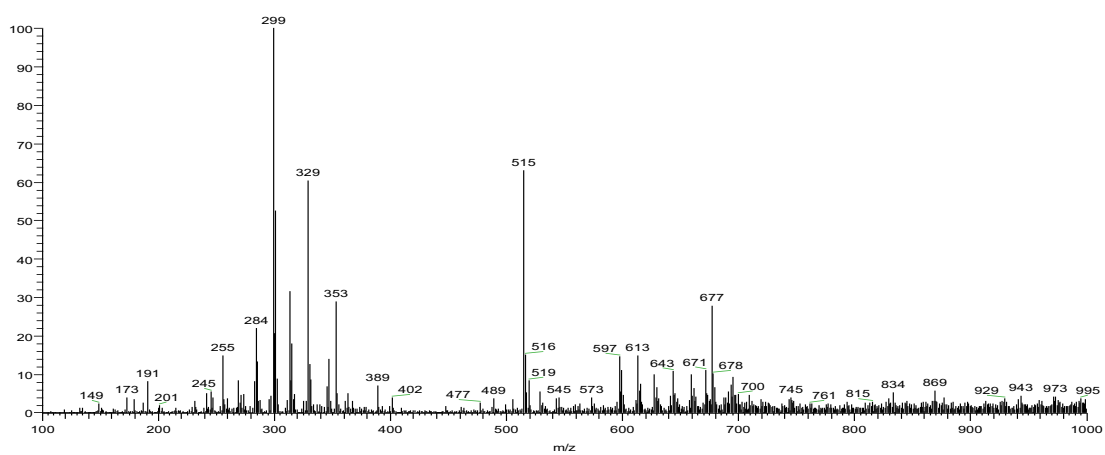
## Supplementary file

**Figure S1.** PS(+)MS of the aqueous extract of the dark propolis.**Figure S2.** PS(+)MS of the aqueous extract of the green propolis.**Figure S3.** PS(+)MS of the aqueous extract of the brown propolis.

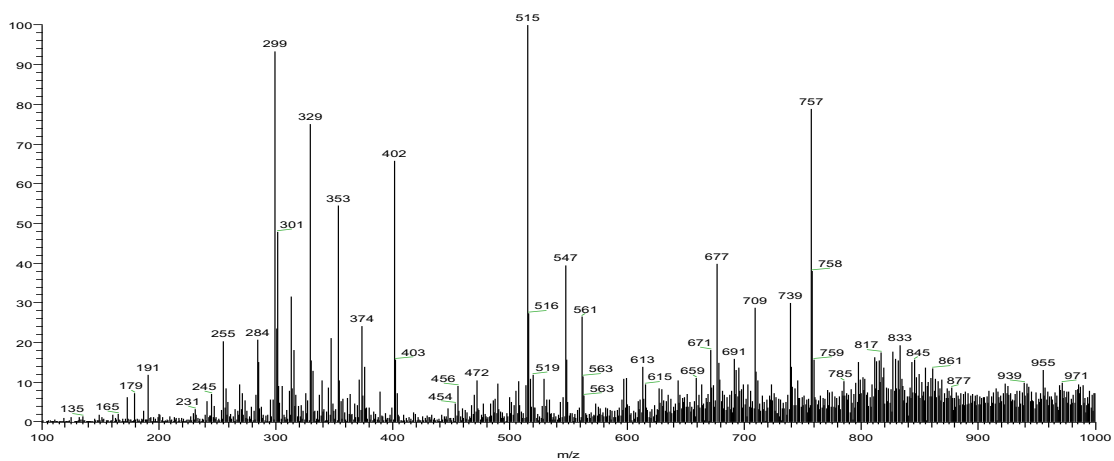
**Figure S4.** PS(-)MS of the aqueous extract of the dark propolis.



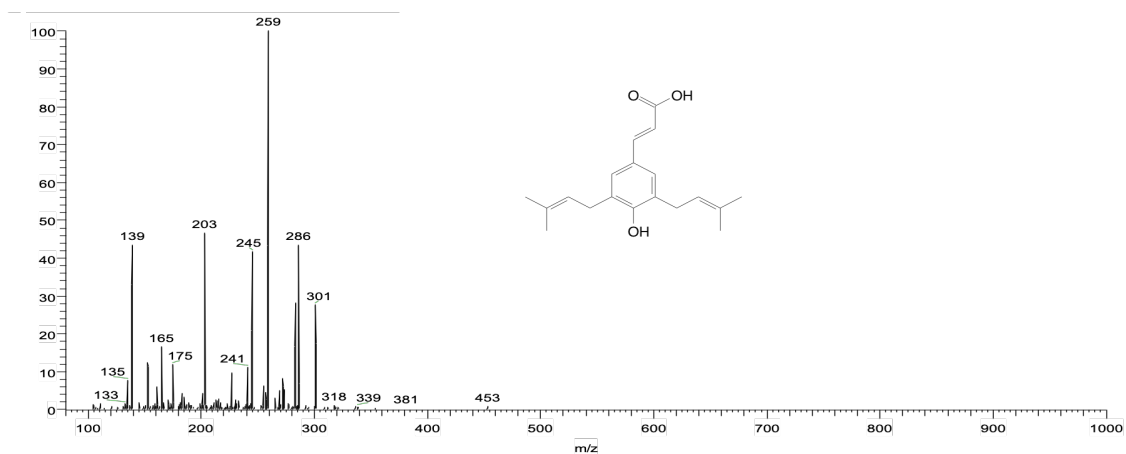
**Figure S5.** PS(-)MS of the aqueous extract of the green propolis.



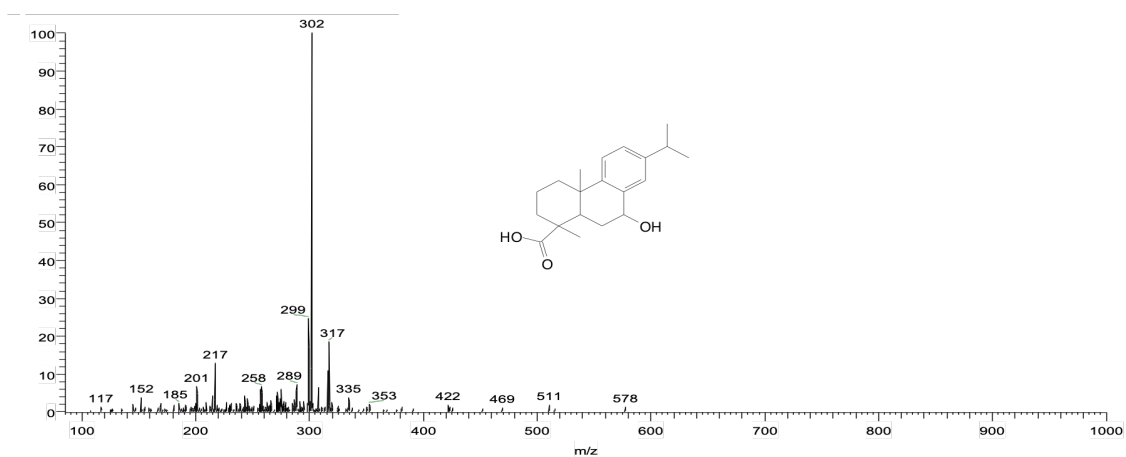
**Figure S6.** PS(-)MS of the aqueous extract of the brown propolis.



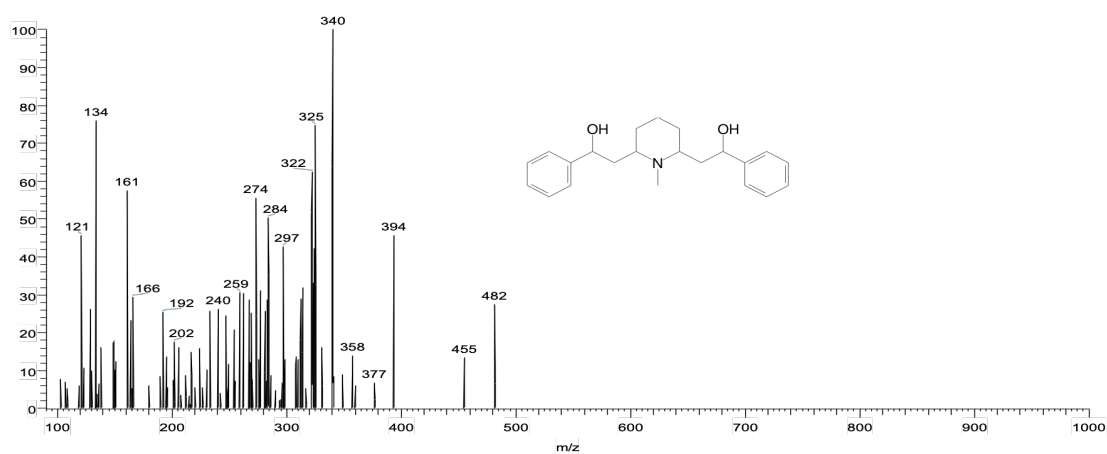
**Figure S7.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  301 (ascribed as protonated Artepillin C).



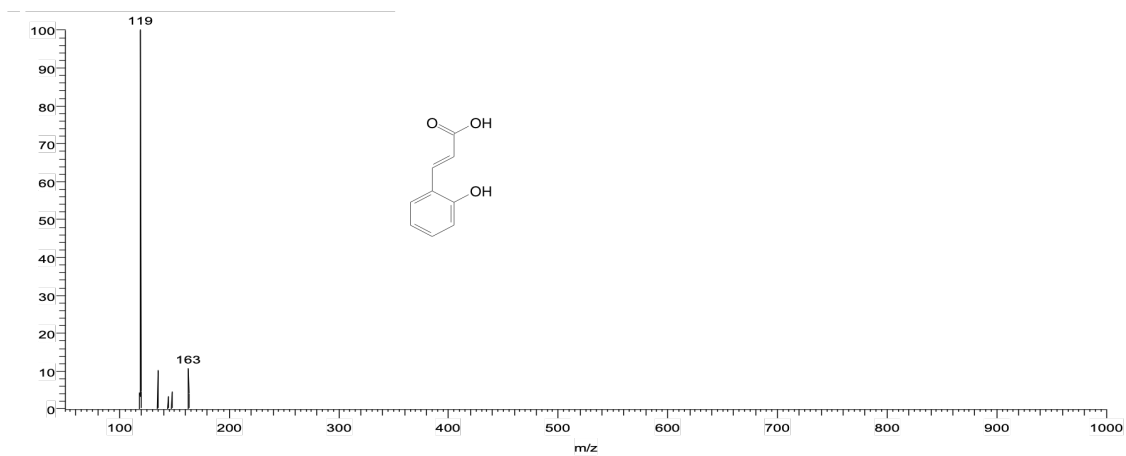
**Figure S8.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  317 (ascribed as protonated 7-hydroxy dehydroabietic acid).



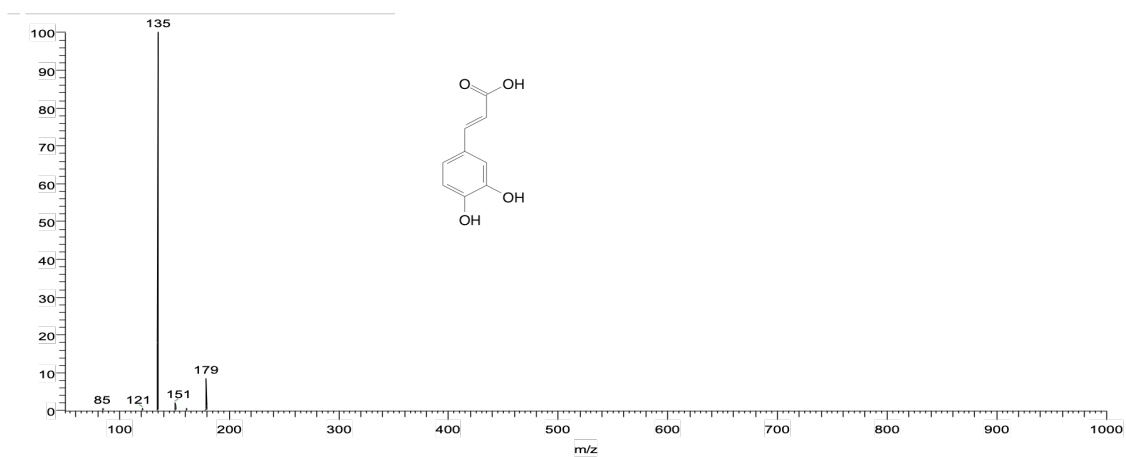
**Figure S9.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  340 (ascribed as protonated Lobelanidin).



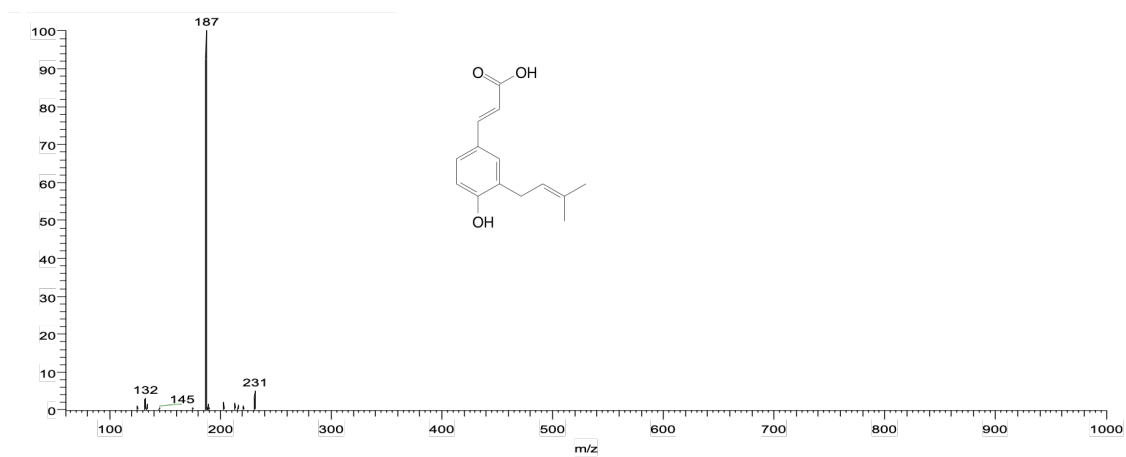
**Figure S10.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  163 (ascribed as deprotonated Coumaric *p*-acid).



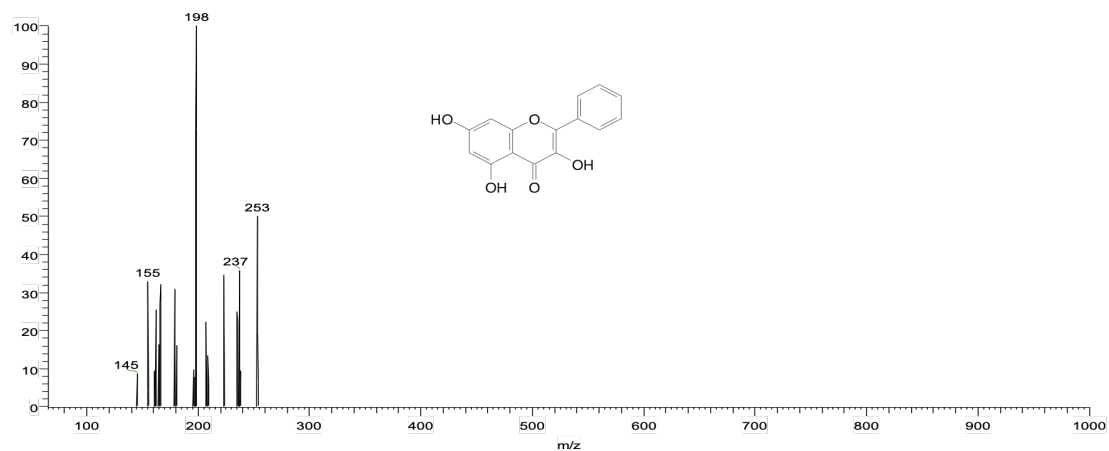
**Figure S11.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  179 (ascribed as deprotonated Caffeic acid).



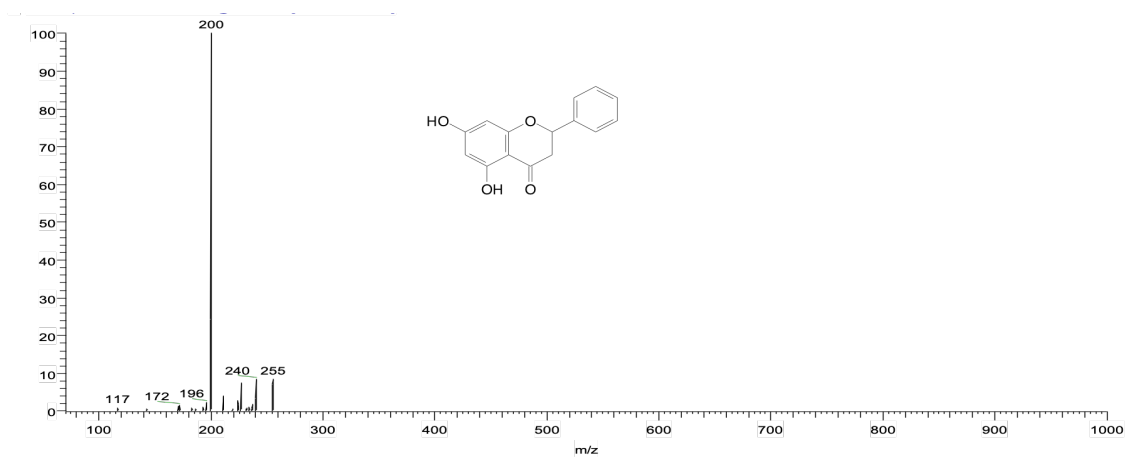
**Figure S12.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  231 (ascribed as deprotonated Drupanin).



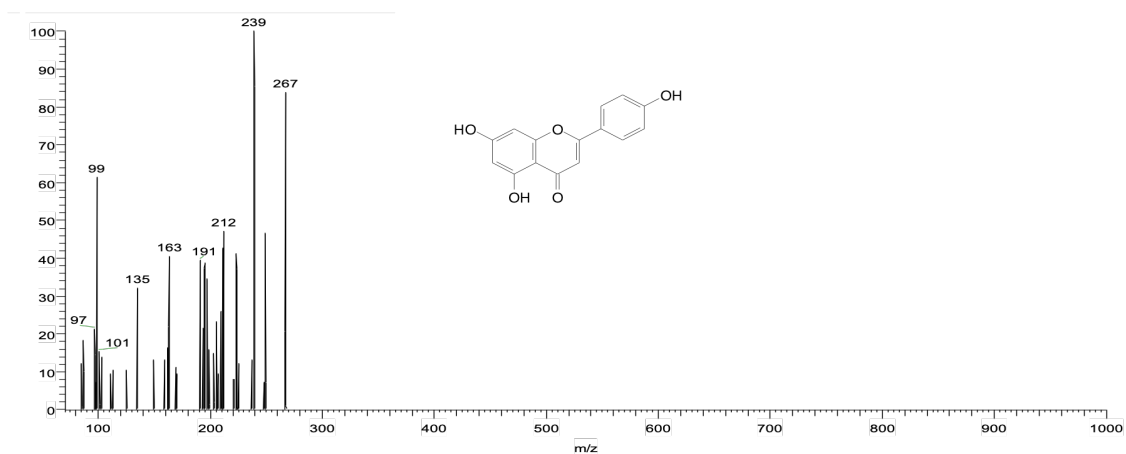
**Figure S13.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  253 (ascribed as deprotonated Chrysin).



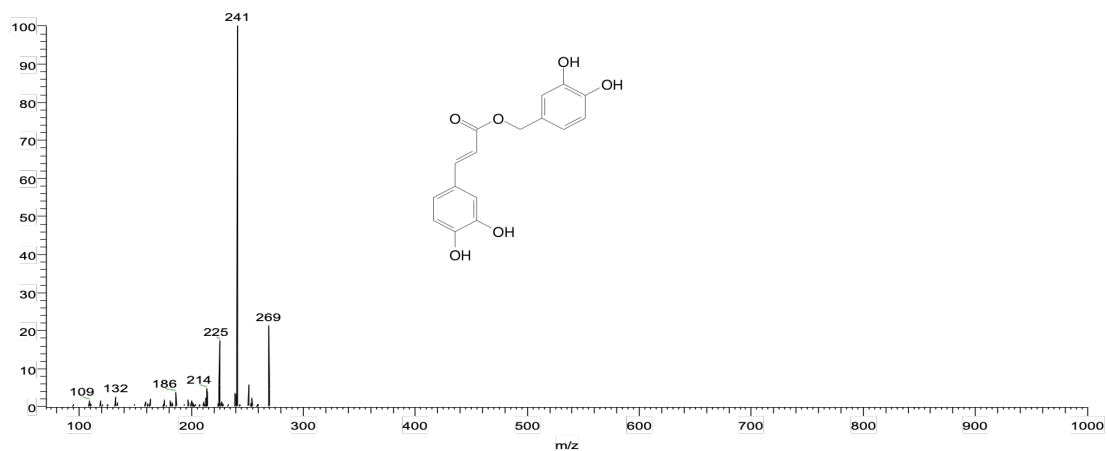
**Figure S14.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  255 (ascribed as deprotonated Pinocembrin).



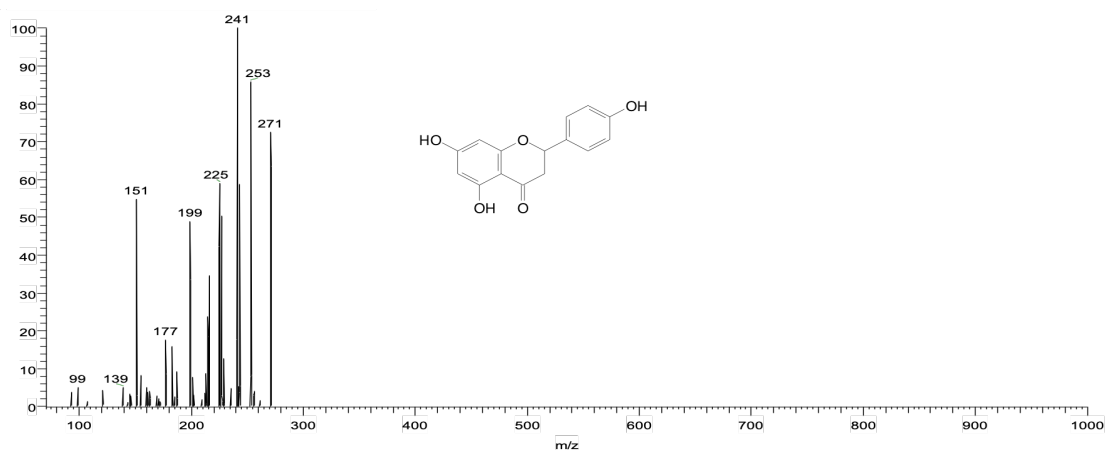
**Figure S15.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  267 (ascribed as deprotonated Apigenin).



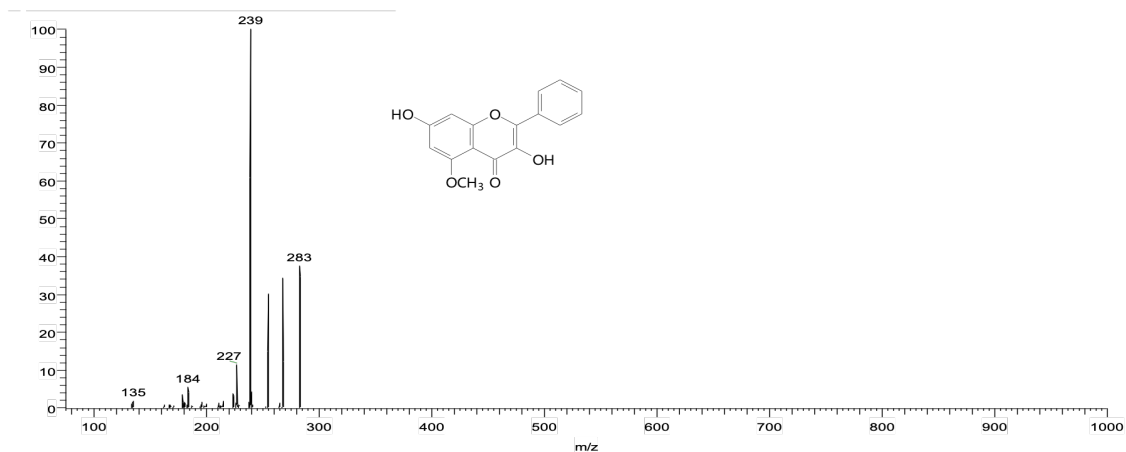
**Figure S16.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  269 (ascribed as deprotonated Caffeic Acid Benzyl Ester).



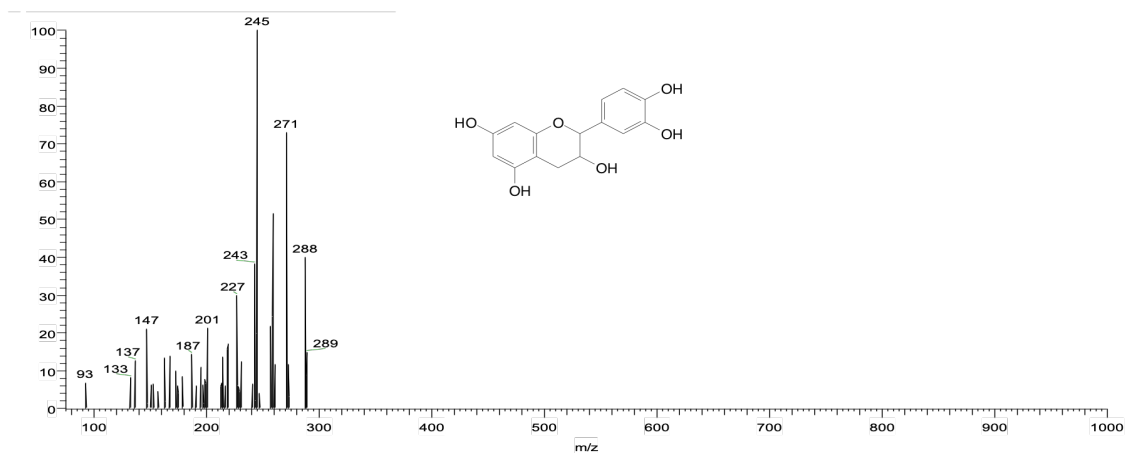
**Figure S17.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  271 (ascribed as deprotonated Naringenin).



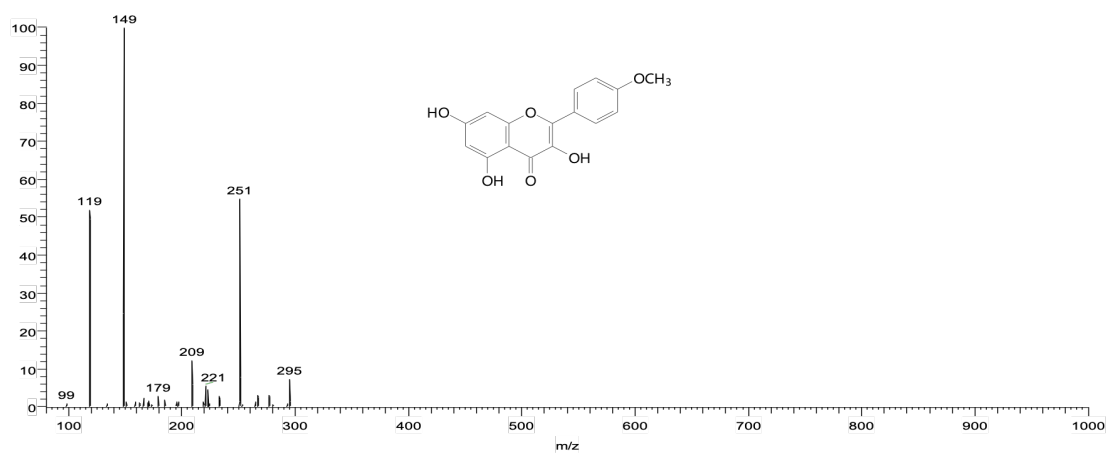
**Figure S18.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  283 (ascribed as deprotonated Galangin-5-methyl-ether).



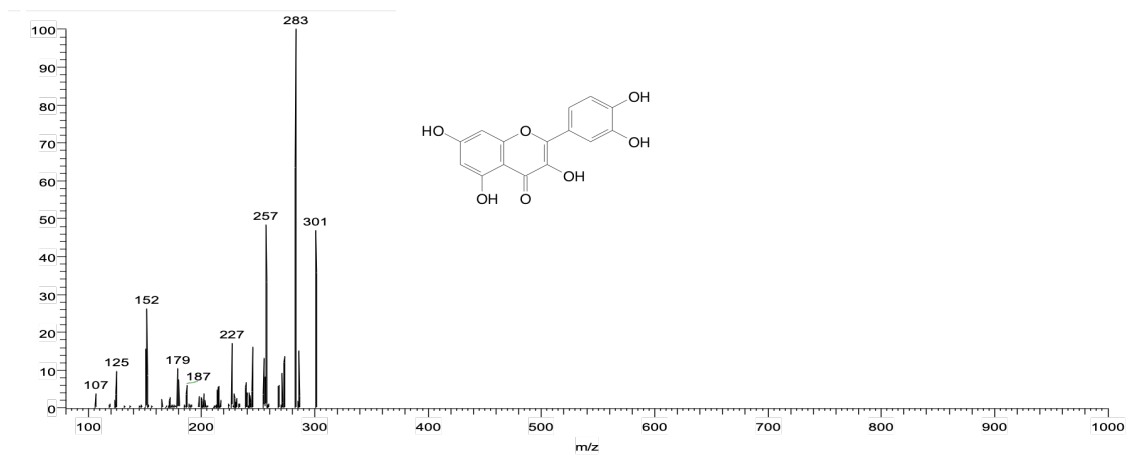
**Figure S19.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  289 (ascribed as deprotonated Epicatechin).



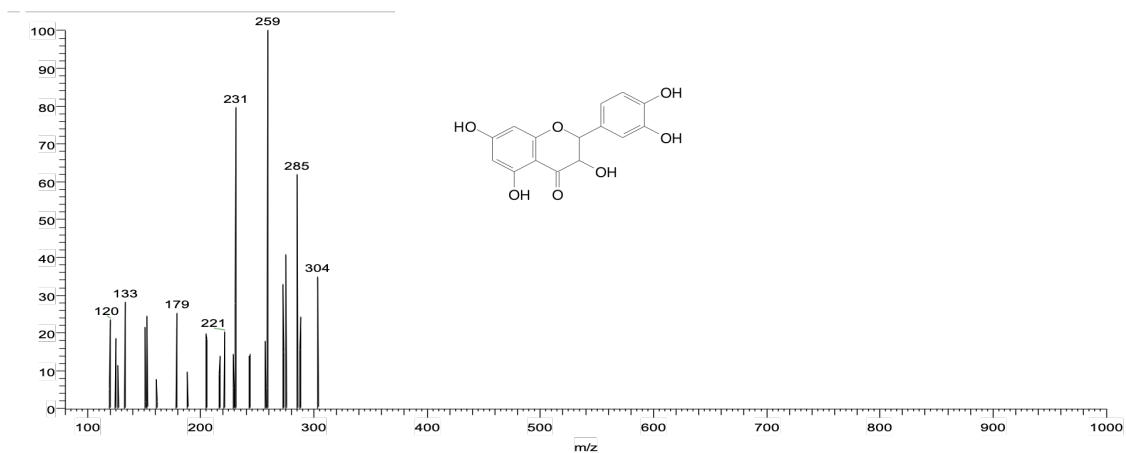
**Figure S20.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  295 (ascribed as deprotonated Kaempferide).



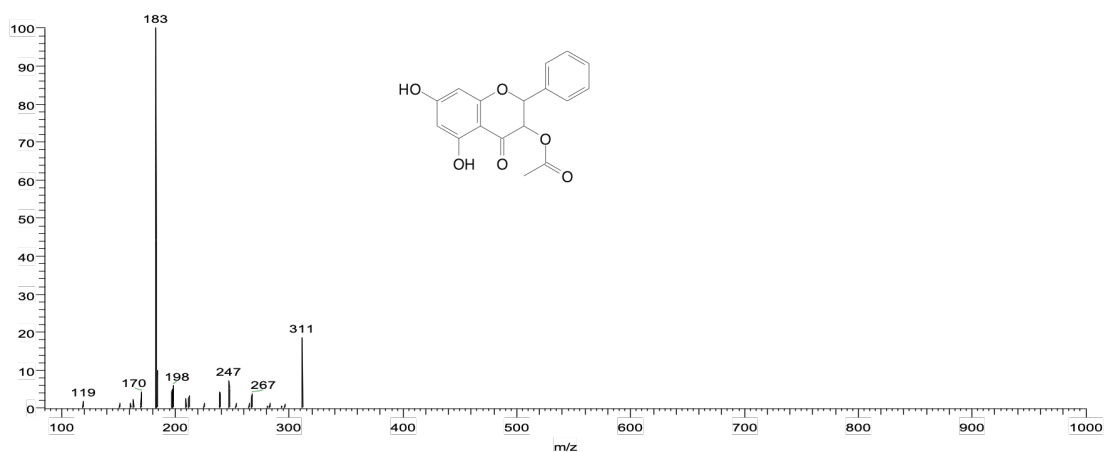
**Figure S21.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  301 (ascribed as deprotonated Quercetin).



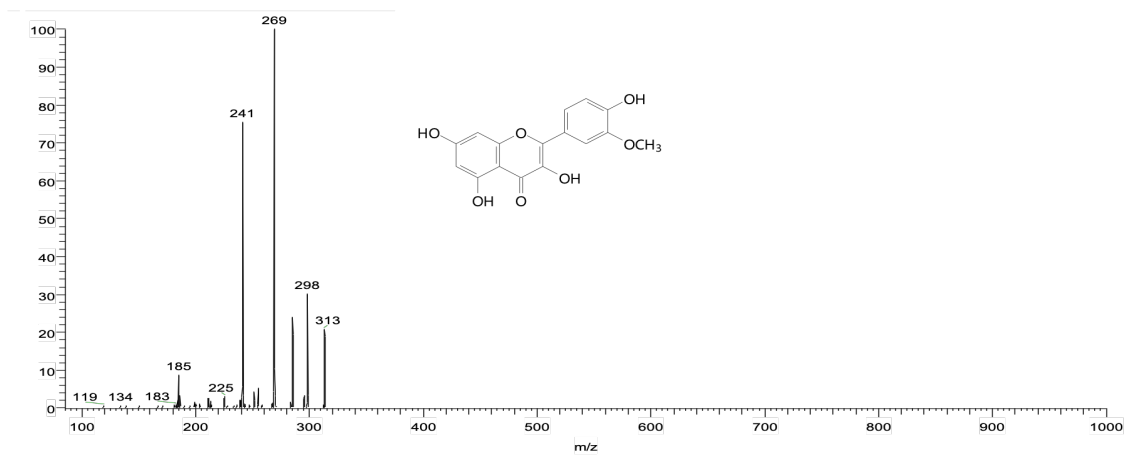
**Figure S22.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  303 (ascribed as deprotonated Taxifolin).



**Figure S23.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  311 (ascribed as deprotonated Pinobanksin-3-acetate).

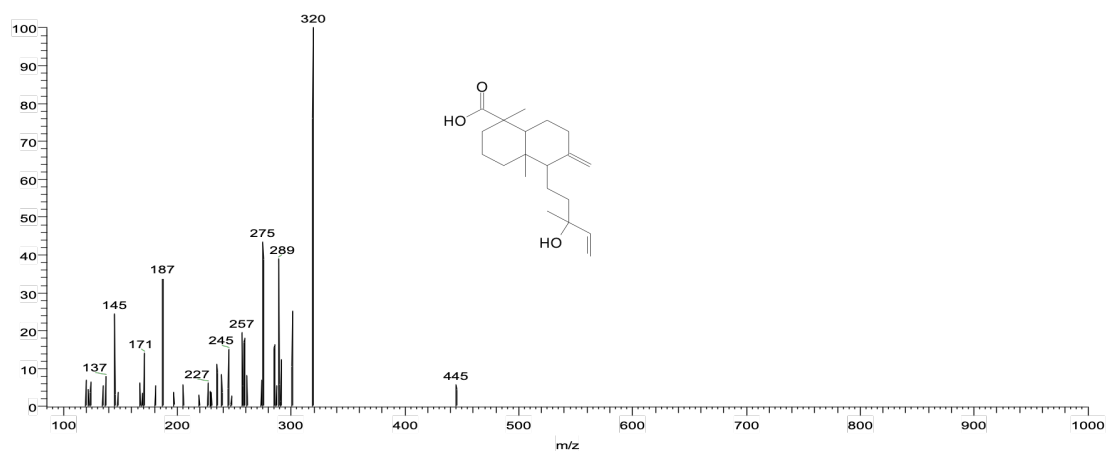


**Figure S24.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  313 (ascribed as deprotonated Quercetin 3-methyl ether).

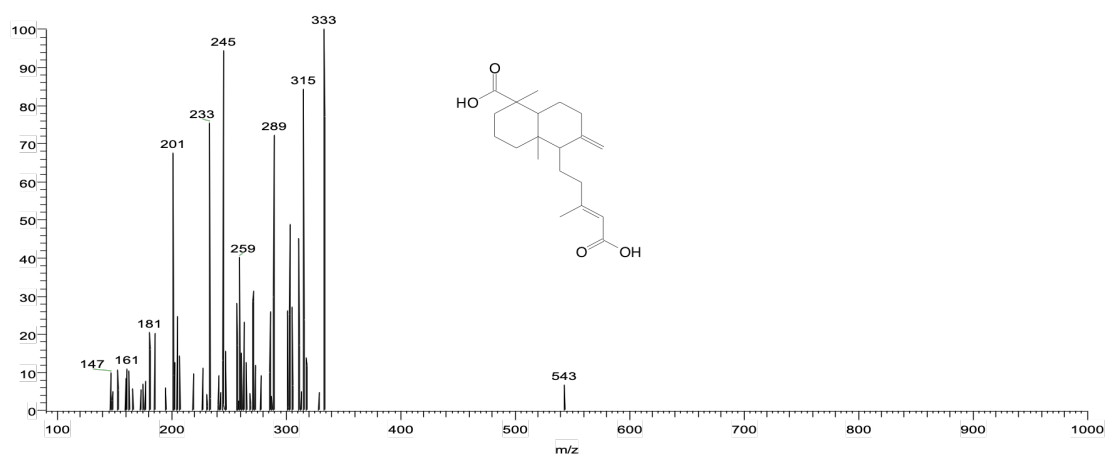




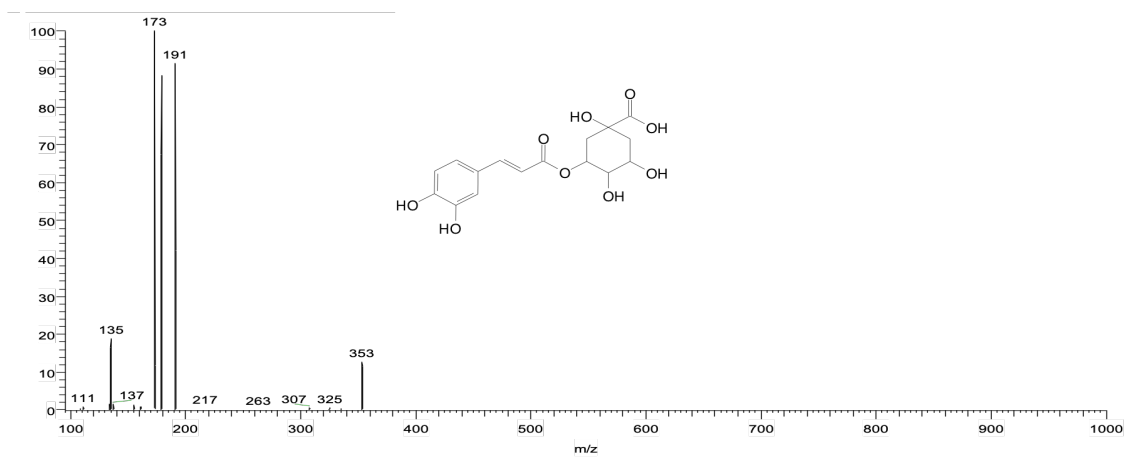
**Figure S25.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  319 (ascribed as deprotonated Cupressic acid).



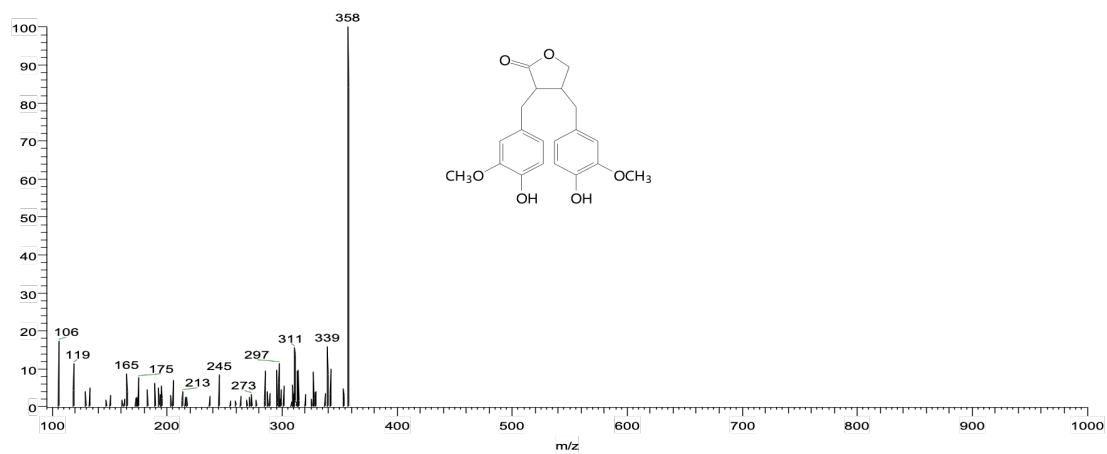
**Figure S26.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  333 (ascribed as deprotonated Agathic acid).



**Figure S27.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  353 (ascribed as deprotonated Chlorogenic acid).



**Figure S28.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  357 (ascribed as deprotonated Matairesinol).



**Figure S29.** Product ion mass spectrum (MS/MS) of the ion of  $m/z$  515 (ascribed as deprotonated Dicafeoylquinic acid).

