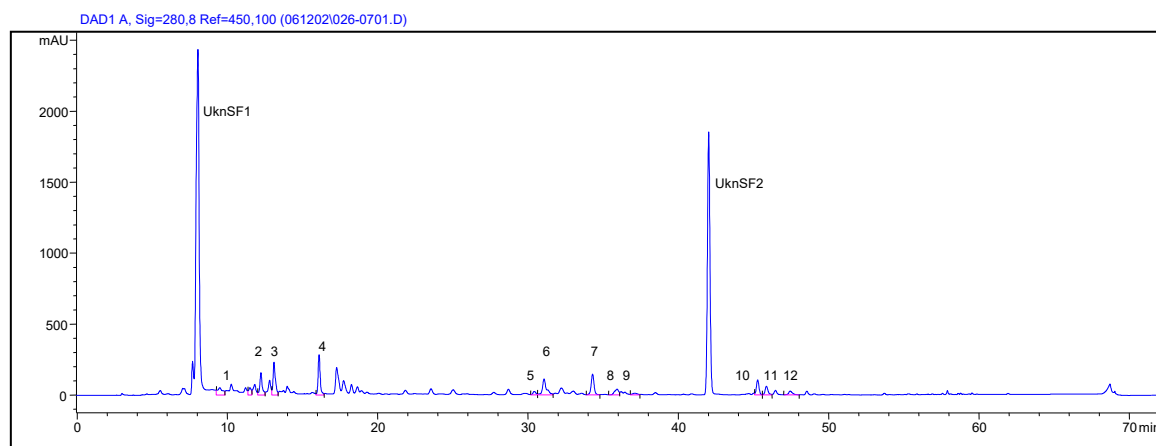
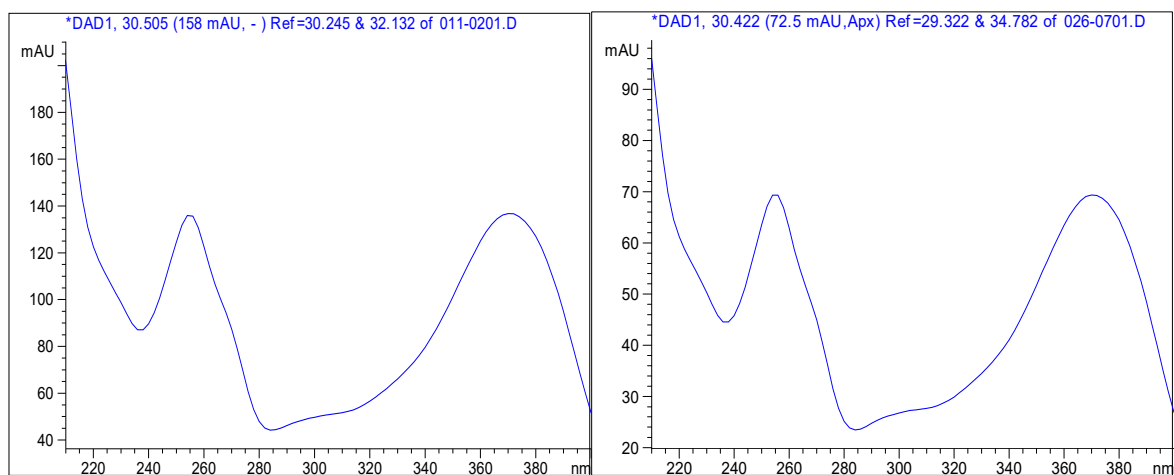


**Figure S1.** LC-MS chromatogram of phenolic acids and flavonoids in *Robinia pseudoacacia* (black locust) honey (sample RH-06-05). Separation conditions are described in the text. Peak identification: UknR<sub>1</sub> - Unknown *Robinia* 1; 1- p-hydroxybenzoic acid; 2 - Ferulic acid; 3 - t-cinnamic acid; 4 - Absciscic acid; UknR<sub>2</sub> - Unknown *Robinia* 2; 5 - Pinobanksin; 6 - Apigenin; 7 - Pinocembrin; 8 - Chrysin; 9 - Acacetin.

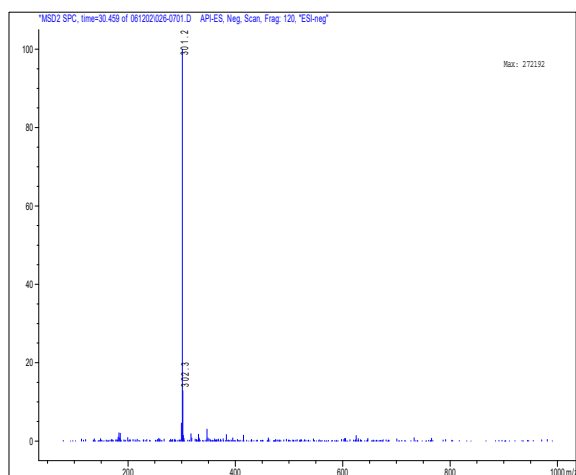


**Figure S2.** LC-MS chromatogram of phenolic acids and flavonoids in *Helianthus annuus* (sunflower) honey. Peak identification: UknSF<sub>1</sub> – Unknown Sunflower 1; 1 – Protocatecuic acid; 2 – Chlorogenic acid; 3 – Caffeic acid; 4 – p-coumaric acid; 5- Quercetin; 6 – Luteolin; 7 – Pinobanksin; 8 – Apigenin; 9 – Kaemferol; UknSF<sub>2</sub> – Unknown Sunflower 2; 10 – Pinocembrin; 11– Chrysin; 12 – Galangin.



**A**

**B**



**C**

**Figure S3.** Quercetin identification : A – UV-VIS standard spectra ; B – UV-VIS compound spectra ; C – Electrospray ionisation mass spectra (negative ionization).

**Table S1.** Retention times and identification parameters for the standard compounds

Standard compound	R <sub>T</sub> (min)	Quantification $\lambda$ (nm)	ESI-MS* [M- H] <sup>-</sup>	UV Bands (nm)
Protocatechuic acid	9.68	280	153	255, 289
Catechin	11.34	280	289	280
Chlorogenic acid	11.94	340	353	218, 240, 295 <sup>sh</sup> , 324
p-hydroxybenzoic acid	12.43	280	137	254, 273, 285 <sup>sh</sup>
Caffeic acid	13.30	340	179	218, 242, 298 <sup>sh</sup> , 326
Vanillic acid	13.33	280	167	218, 260, 290
Syringic acid	13.69	280	197	216, 275
Homovanillic acid	13.82	280	181	230, 280
Vanillin	15.67	280	151	279, 310
p-coumaric acid	16.37	280	163	212, 226, 300 <sup>sh</sup> , 310
Ferulic acid	17.56	280	193	206, 218, 234, 296 <sup>sh</sup> , 322
Naringin	20.14	340	580	284, 340 <sup>sh</sup>
Rosmarinic acid	23.15	340	359	220, 235 <sup>sh</sup> , 248 <sup>sh</sup> , 290, 330
Miricetin	23.30	340	317	255, 305 <sup>sh</sup> , 375
Abscisic acid	29.14	280	263	240 <sup>sh</sup> , 265
Quercetin	30.82	340	301	254, 270 <sup>sh</sup> , 305 <sup>sh</sup> , 367
Luteolin	31.07	340	285	255, 267 <sup>sh</sup> , 292 <sup>sh</sup> , 350
t-cinnamic acid	31.82	280	147	216, 272
Apigenin	36.28	340	269	268, 300 <sup>sh</sup> , 335
Kaemferol	36.37	340	285	267, 294 <sup>sh</sup> , 325 <sup>sh</sup> , 365
Isorhamnetin	37.54	340	315	253, 372
o-coumaric acid	42.64	280	163	215, 226 <sup>sh</sup> , 280, 330
Pinocembrin	45.52	280	255	230 <sup>sh</sup> , 290, 335
Chrysin	45.89	280	253	245 <sup>sh</sup> , 270, 335
Acacetin	46.93	340	283	265, 335
Galangin	47.72	340	269	240 <sup>sh</sup> , 265, 310, 365

sh - shoulder