Supporting Information

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Interactions of bioactive quince (*Cydonia oblonga* Mill.) extract with biomolecules

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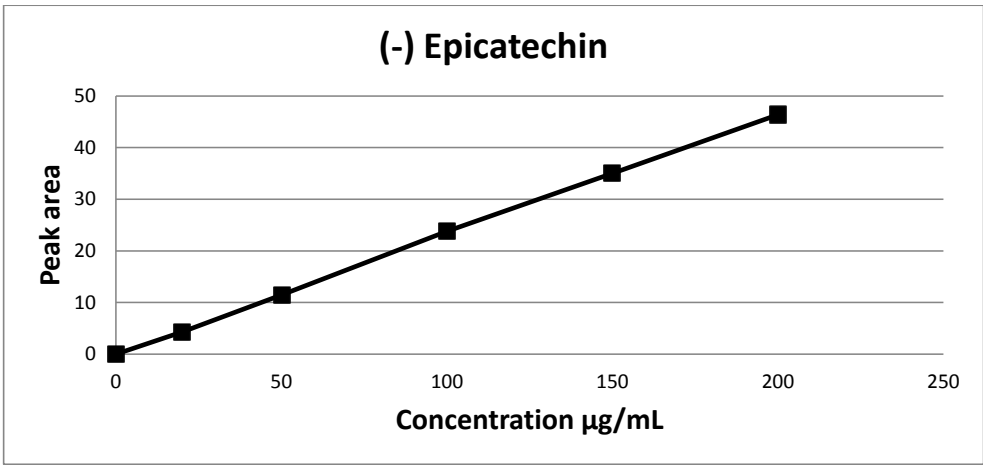
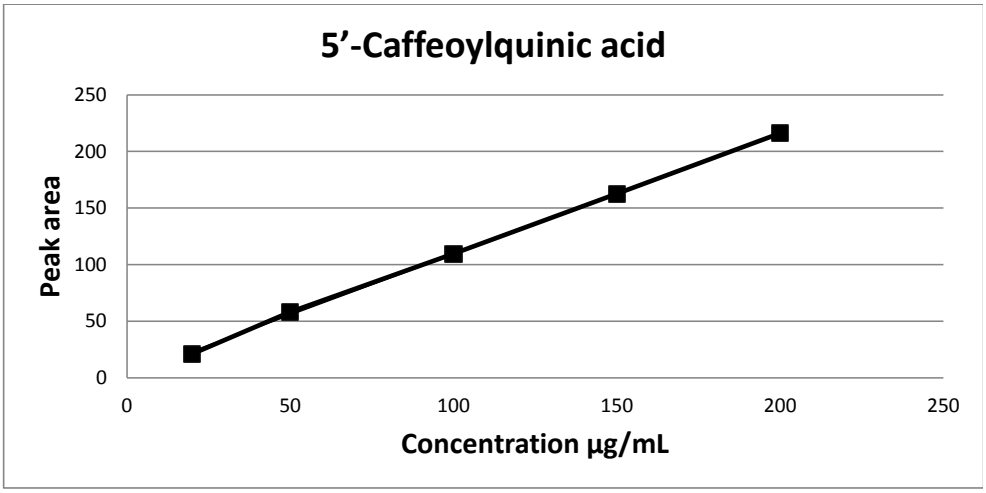
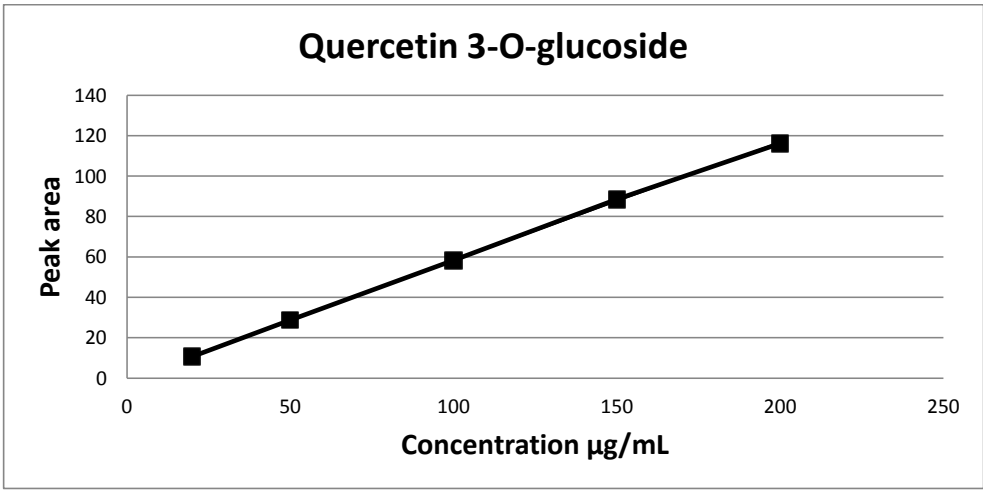
Standard	Linear range (µg/mL)	λ_{det} [1] (nm)	Calibration curve	Correlation coefficient *R*	LOD (µg/mL)	LOQ (µg/mL)
5'-Caffeoylquinic acid	20 – 300	320	y=1.083x-0.931[2]	0.9999	0.060	0.199
Quercetin 3-*O*-glucoside	20 – 150	360	y=0.606x-1.687	0.9995	0.060	0.185
(-) Epicatechin	20-200	280	y=0.233x-0.077	0.9999	0.464	1.532

[1]λ_{det} detection wavelength in quantification process, [2]y - peak area, x - concentration

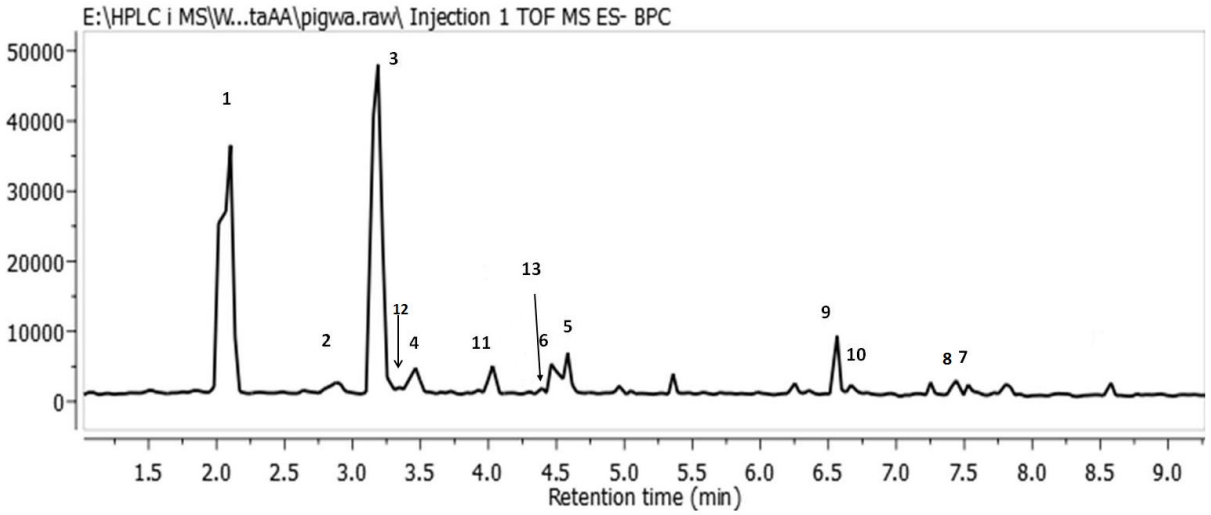
S1: Linear range, calibration curve, correlation coefficient -R, limit of detection- LOD, and limit of quantification- LOQ data for three used standards.



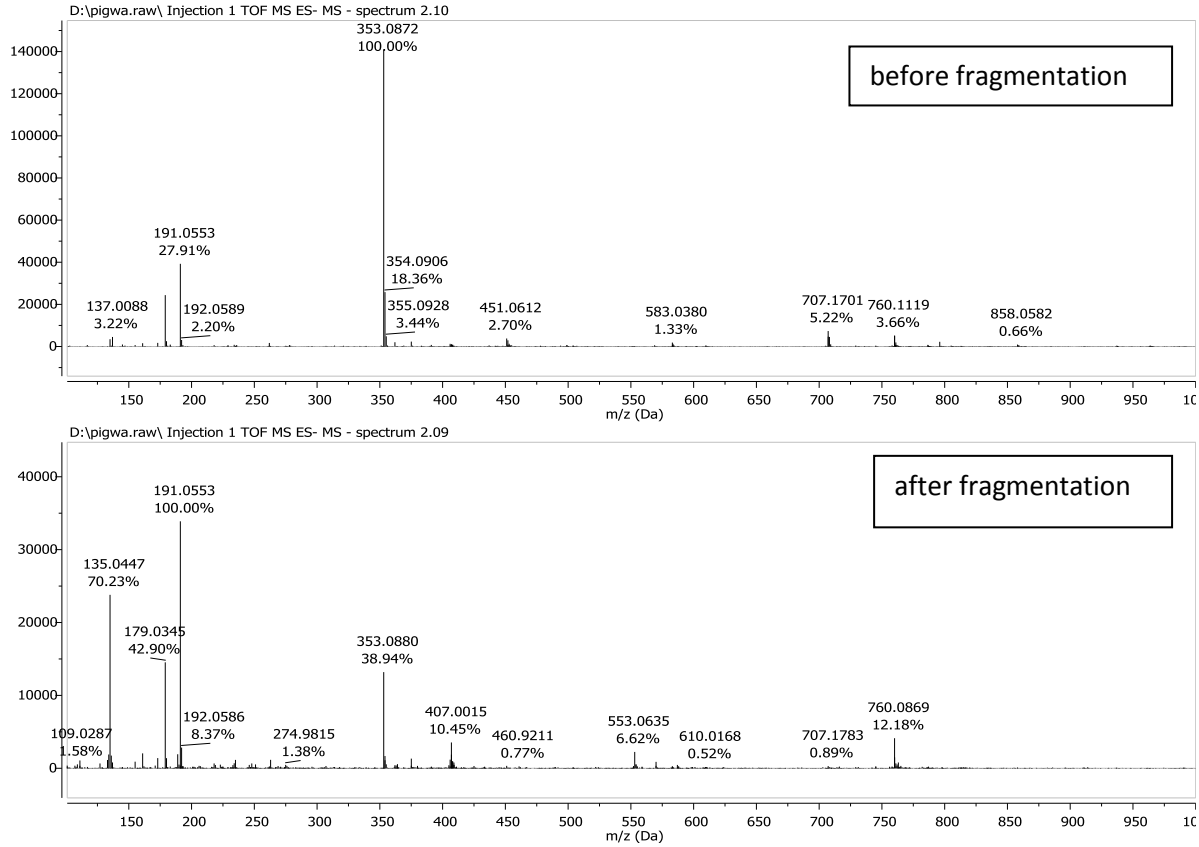




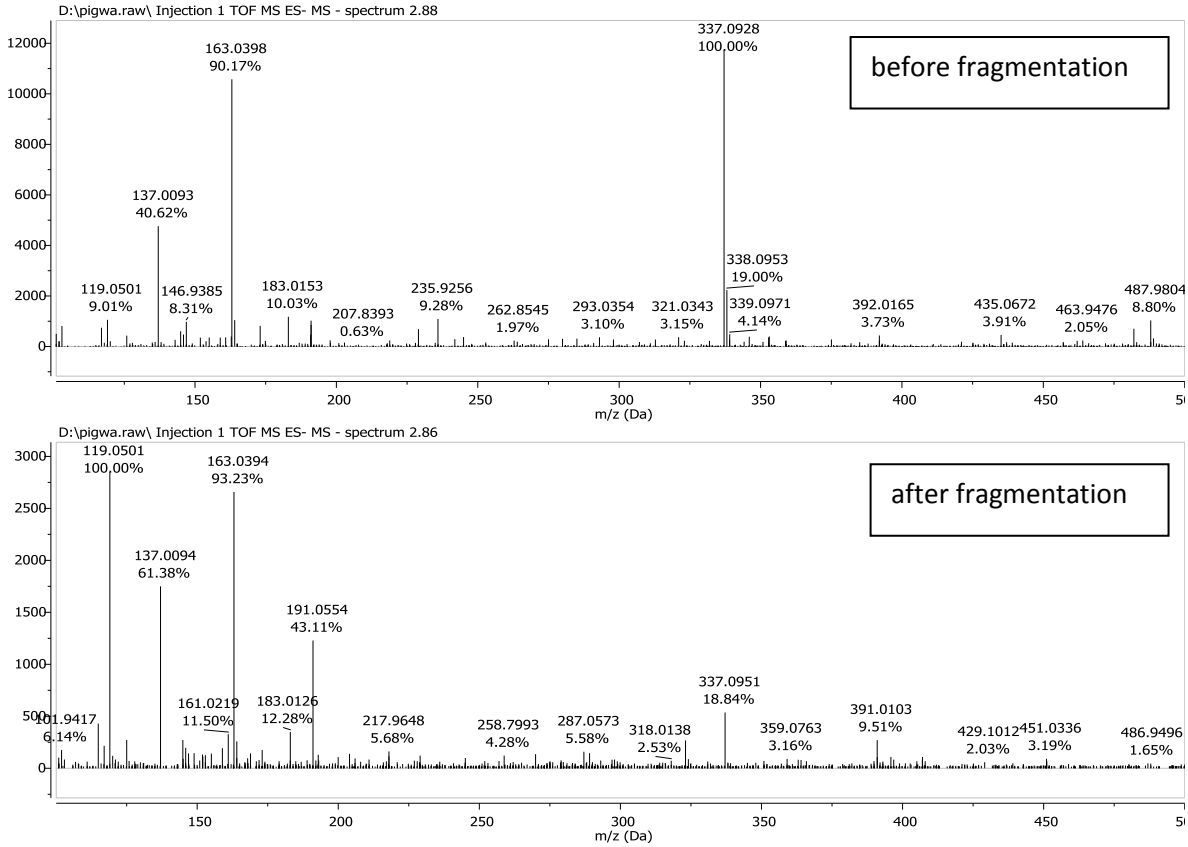
S2: (-) Epicatechin, 5'-caffeoylquinic acid and quercetin 3-*O*-glucoside calibration curves.



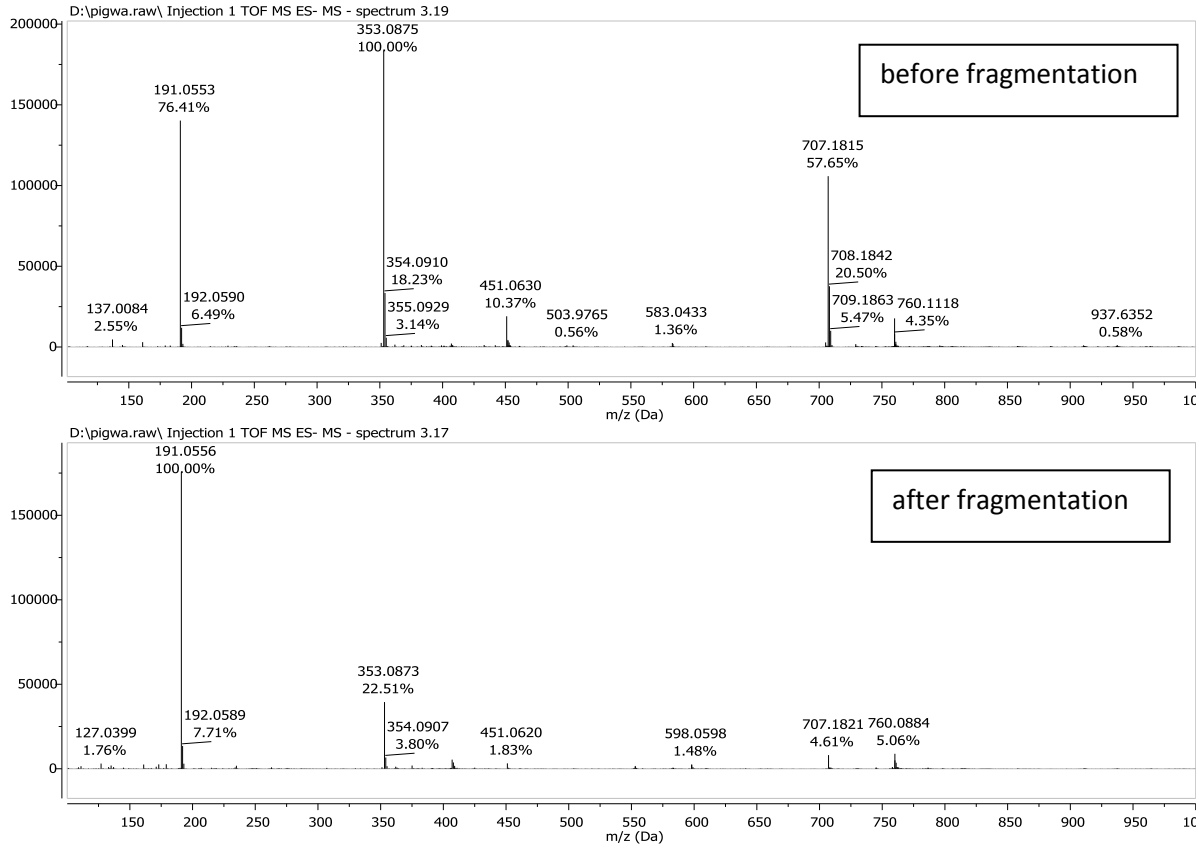
S3: UHPLC-MS chromatogram of compounds from quince extract. Numbers in chromatogram refer to compounds listed in Table 1 in manuscript.



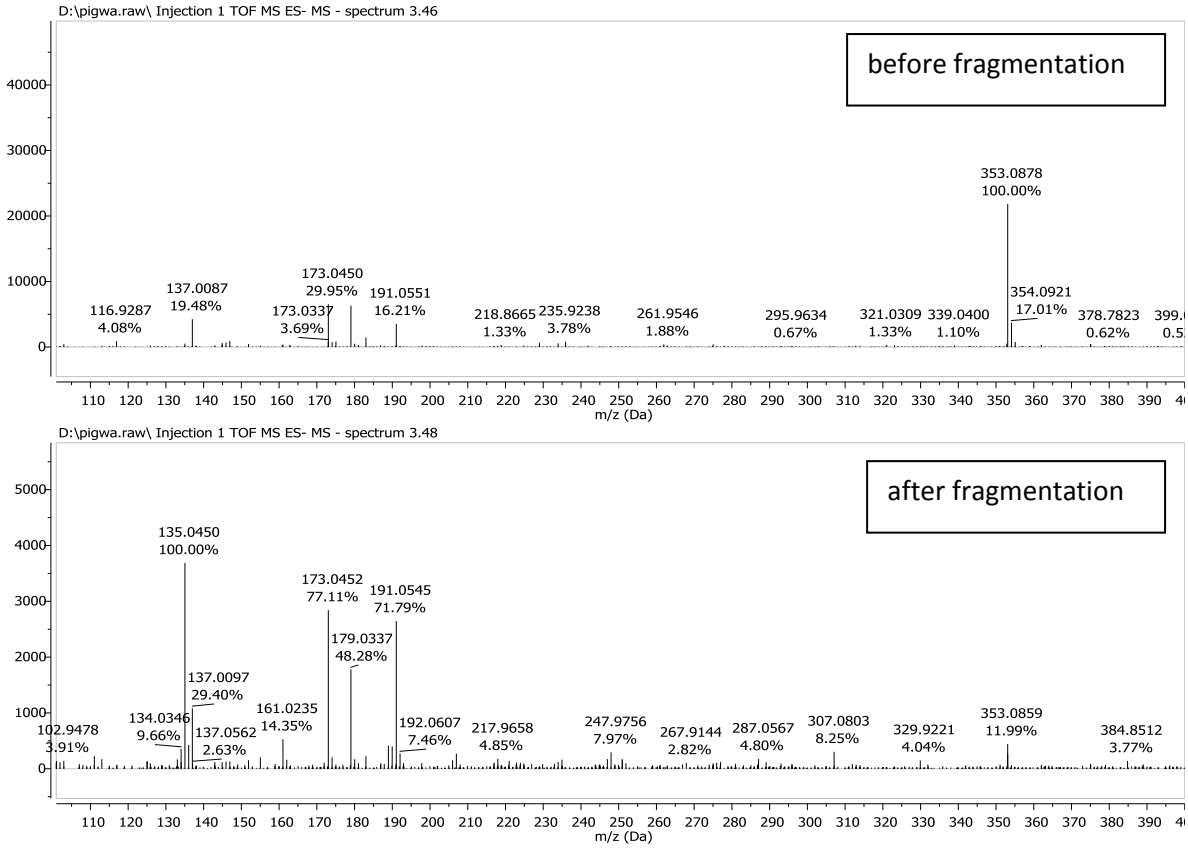
S4: Mass spectra of the ions of neochlorogenic acid (Peak 1) in negative mode before and after fragmentation.



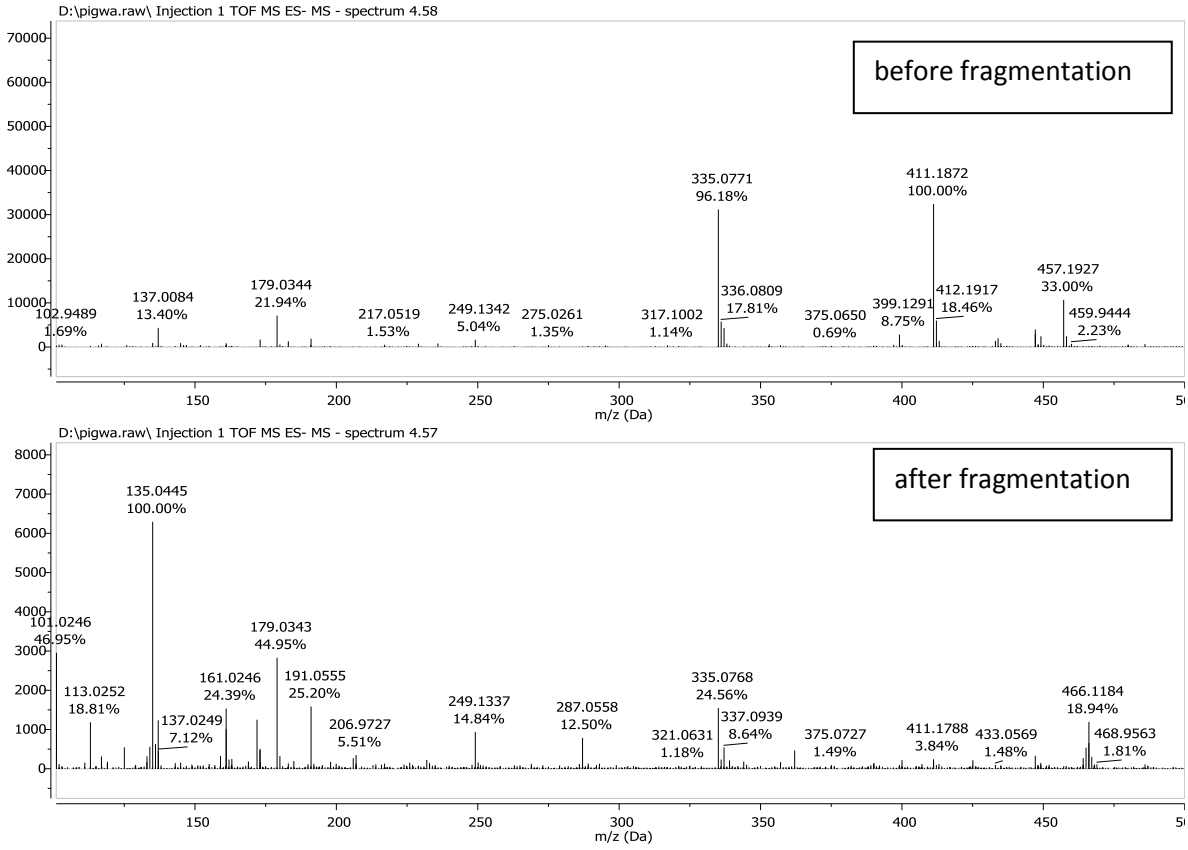
S5: Mass spectra of the ions of *p*-coumaroylquinic acid (Peak 2) in negative mode before and after fragmentation.



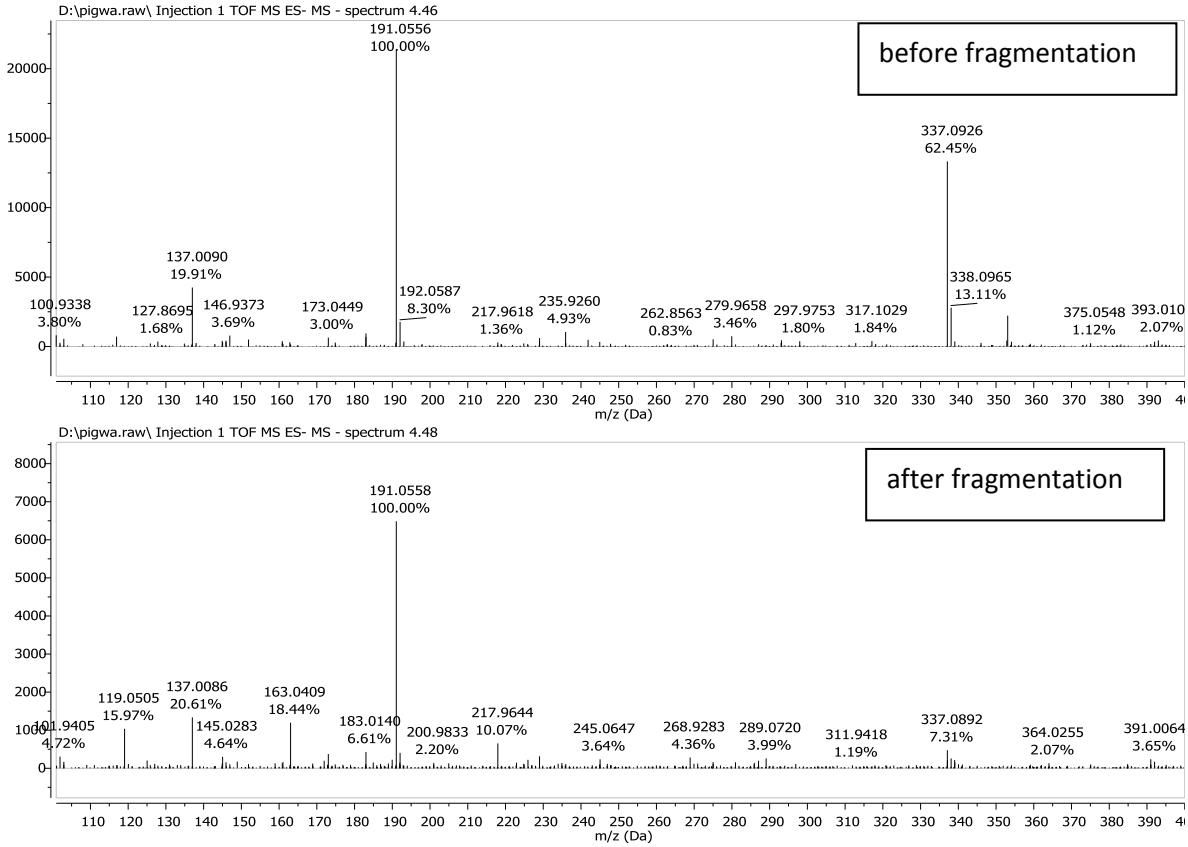
S6: Mass spectra of the ions of chlorogenic acid (Peak 3) in negative mode before and after fragmentation.



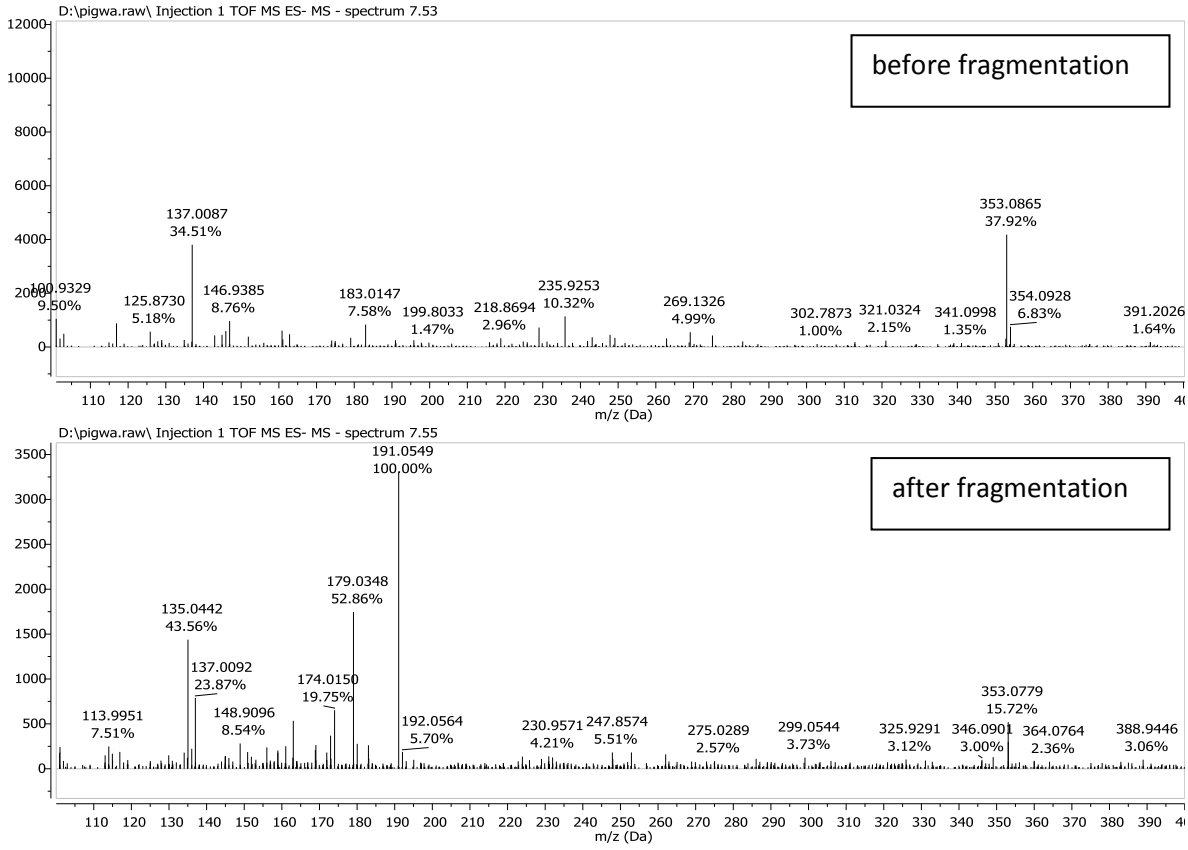
S7: Mass spectra of the ions of cryptochlorogenic acid (Peak 4) in negative mode before and after fragmentation.



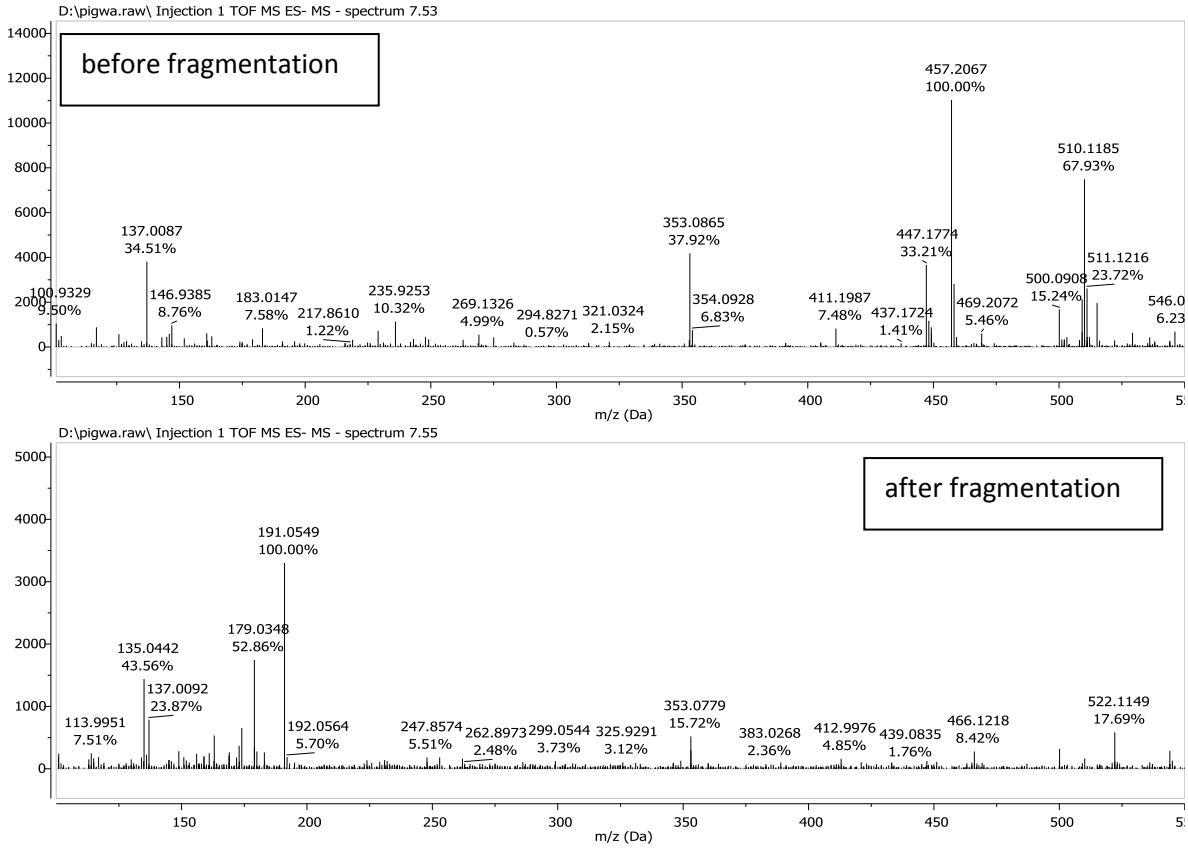
S8: Mass spectra of the ions of caffeoylquinic acid derivatives (Peak 5) in negative mode before and after fragmentation.



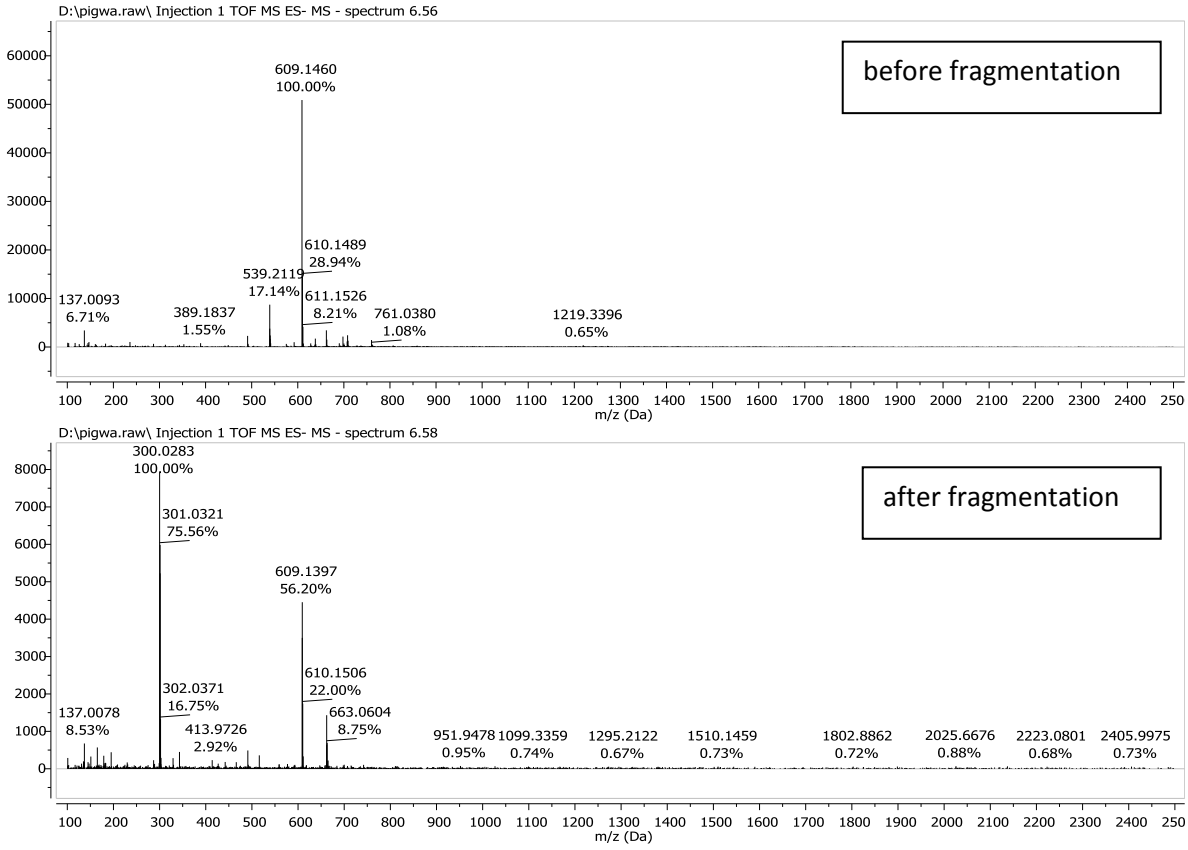
S9: Mass spectra of the ions of *p*-coumaric acid derivative (Peak 6) in negative mode before and after fragmentation.



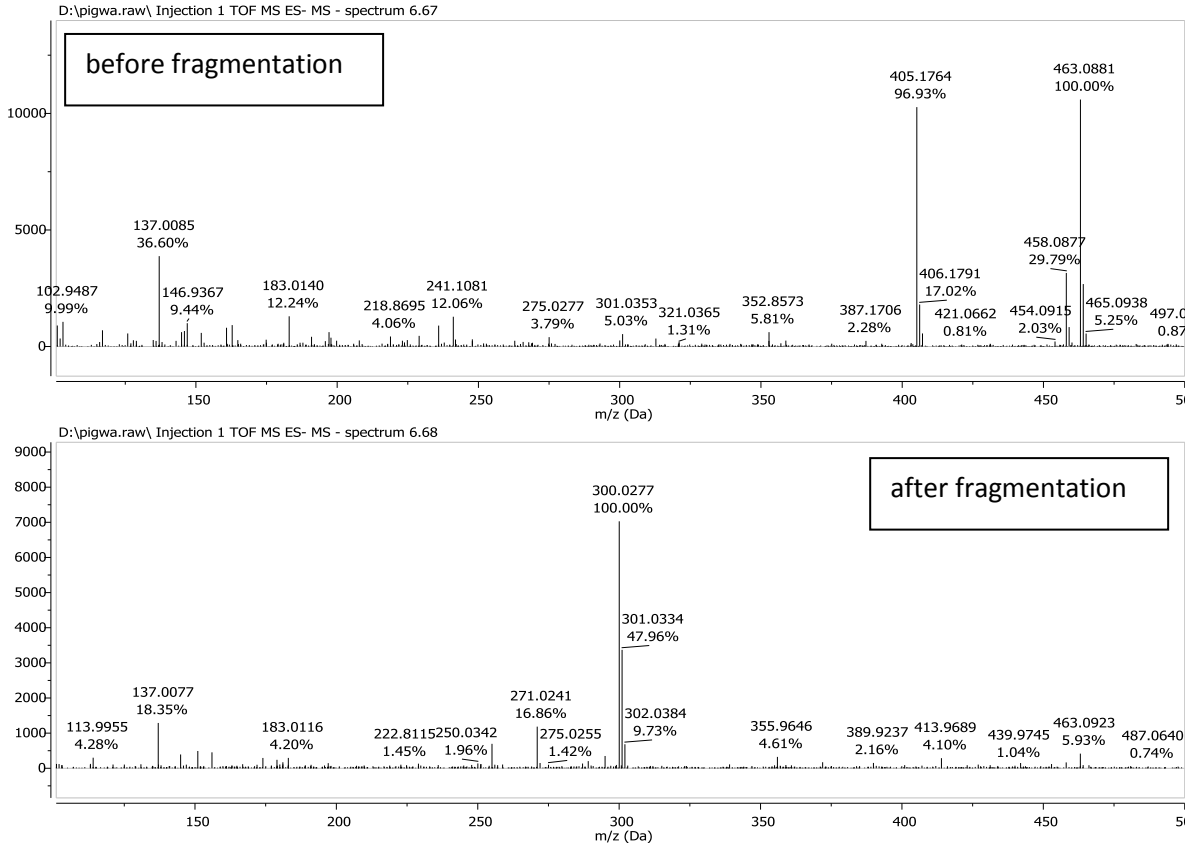
S10: Mass spectra of the ions of caffeoylquinic acid derivatives (peak 7) in negative mode before and after fragmentation.



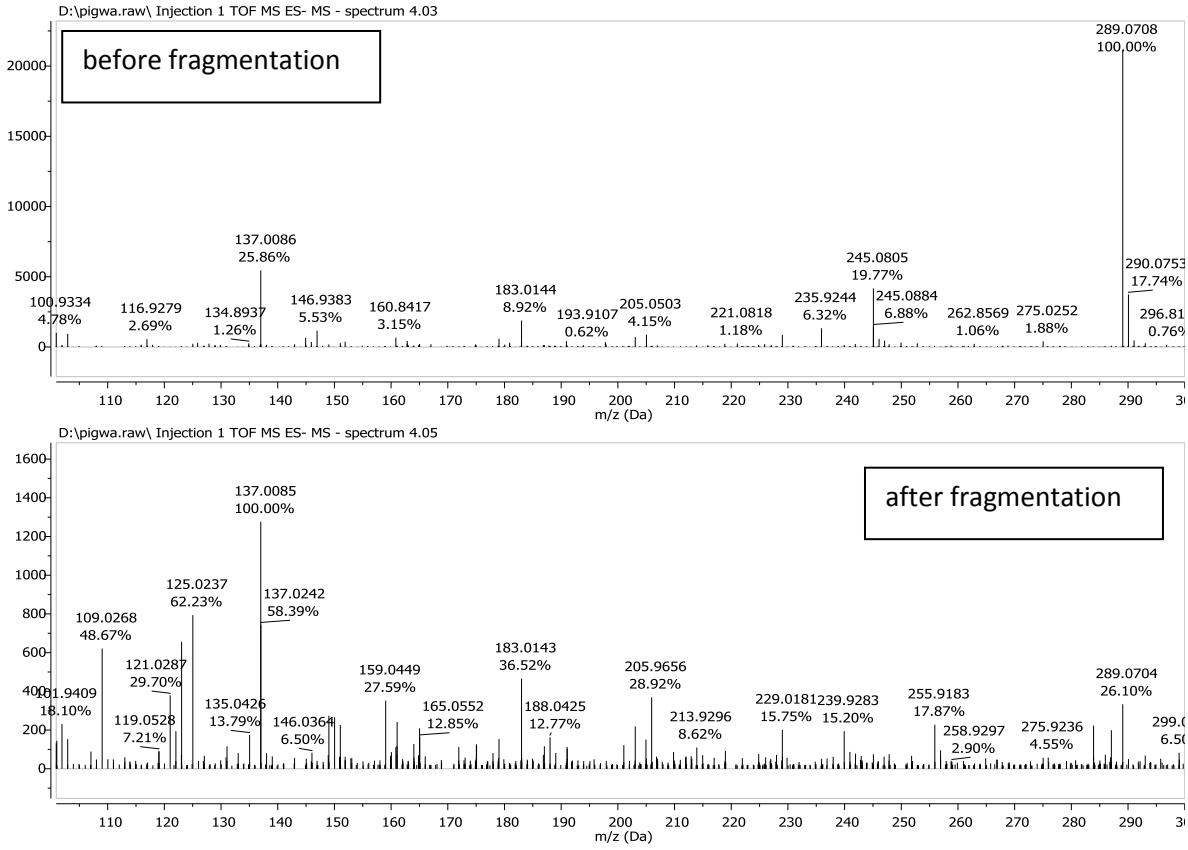
S11: Mass spectra of the ions of caffeoylquinic acid (peak 8) in negative mode before and after fragmentation.



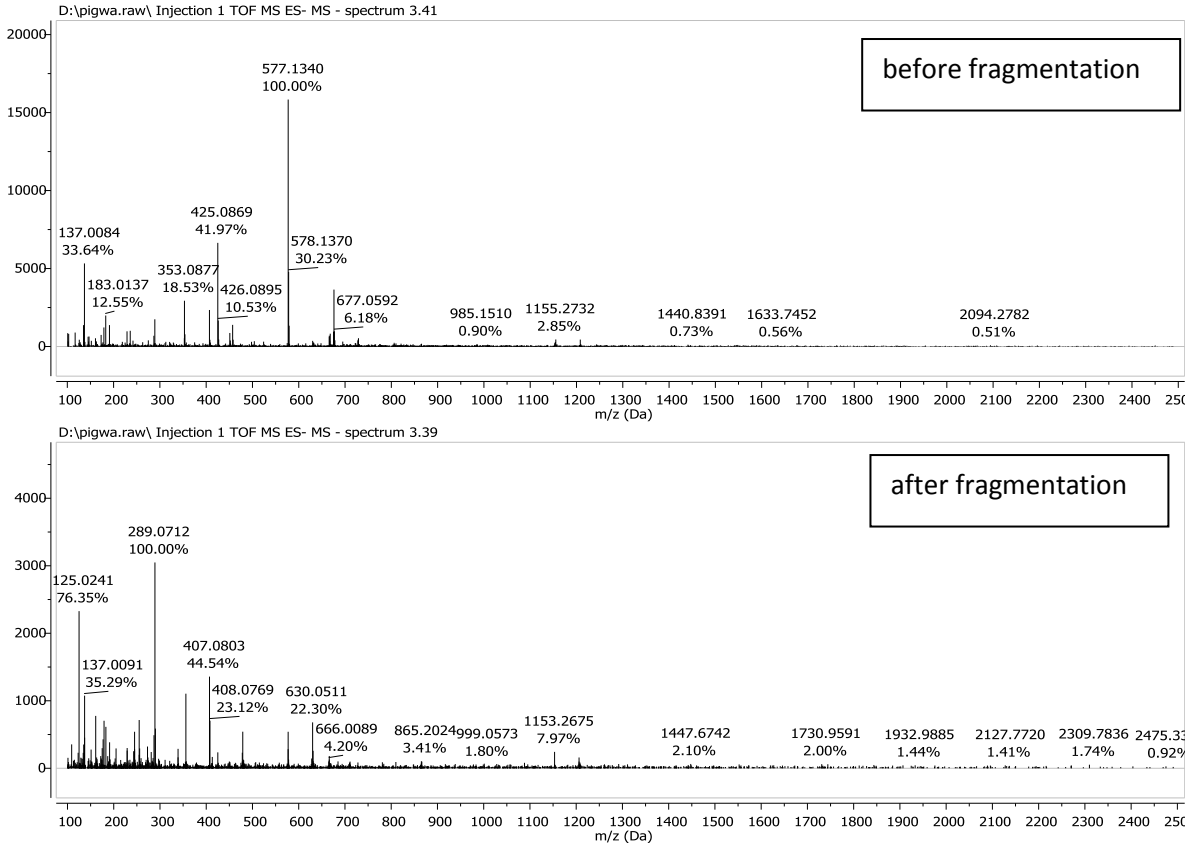
S12: Mass spectra of the ions of quercetin - 3- *O*-rutinoside (Peak 9) in negative mode before and after fragmentation.



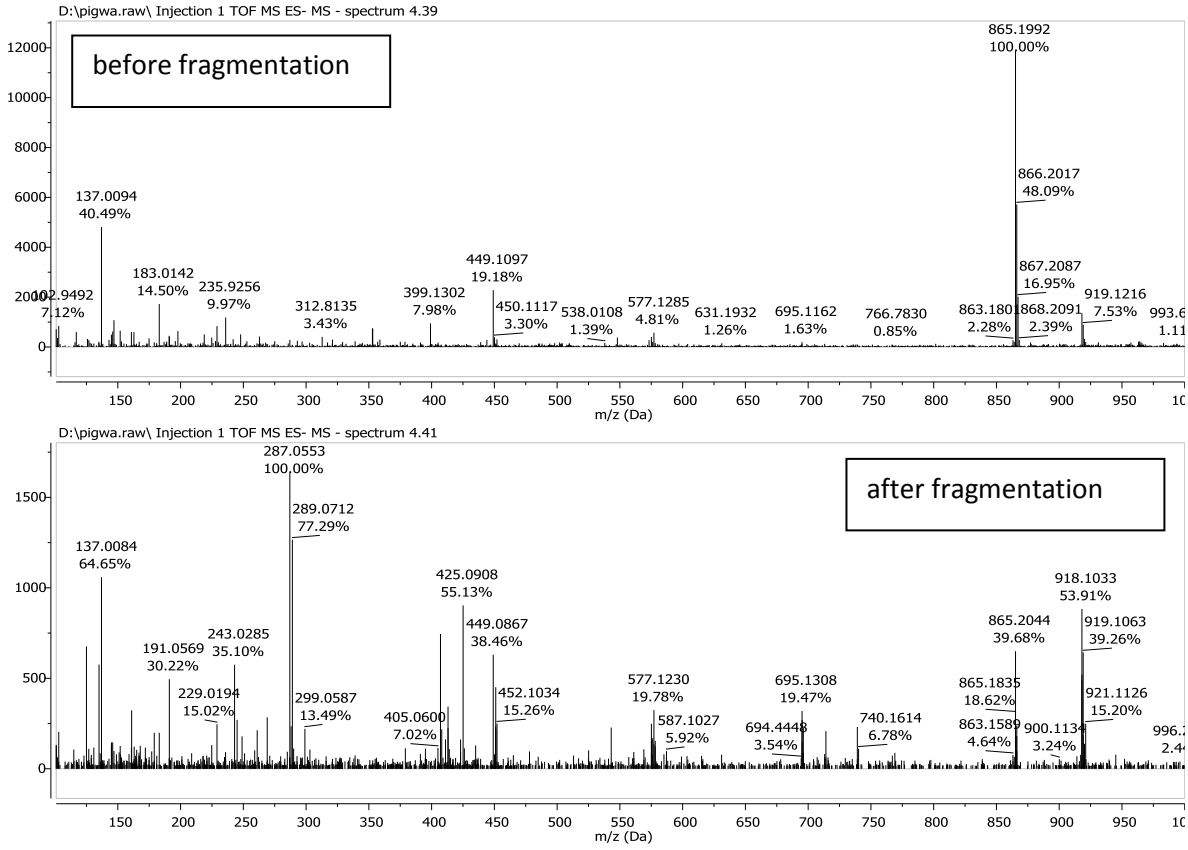
S13: Mass spectra of the ions of quercetin - 3- *O*-glucoside (Peak 10) in negative mode before and after fragmentation.



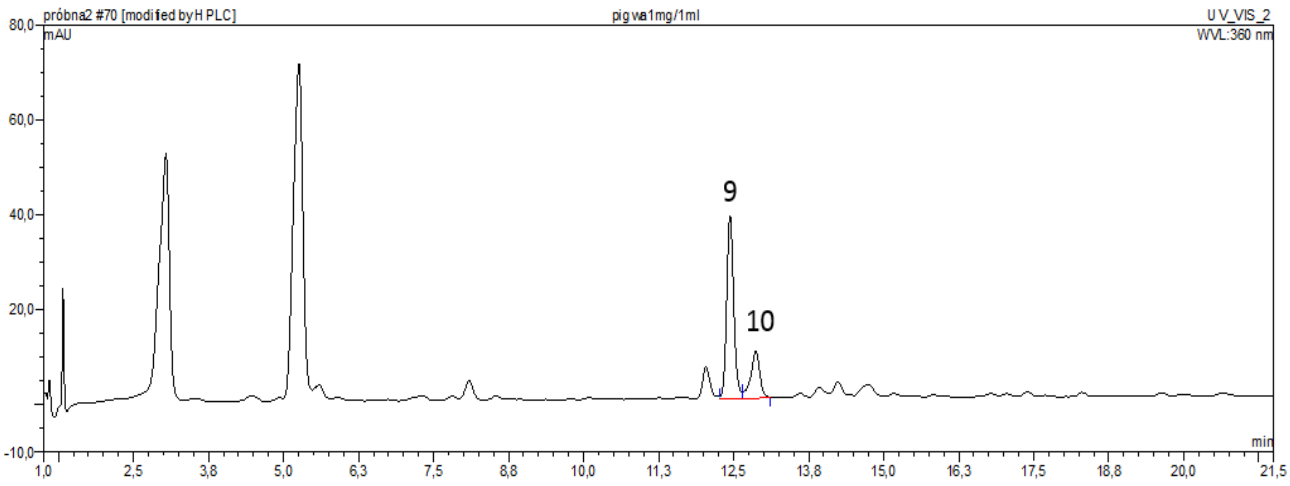
S14: Mass spectra of the ions of catechin (Peak 11) in negative mode before and after fragmentation.



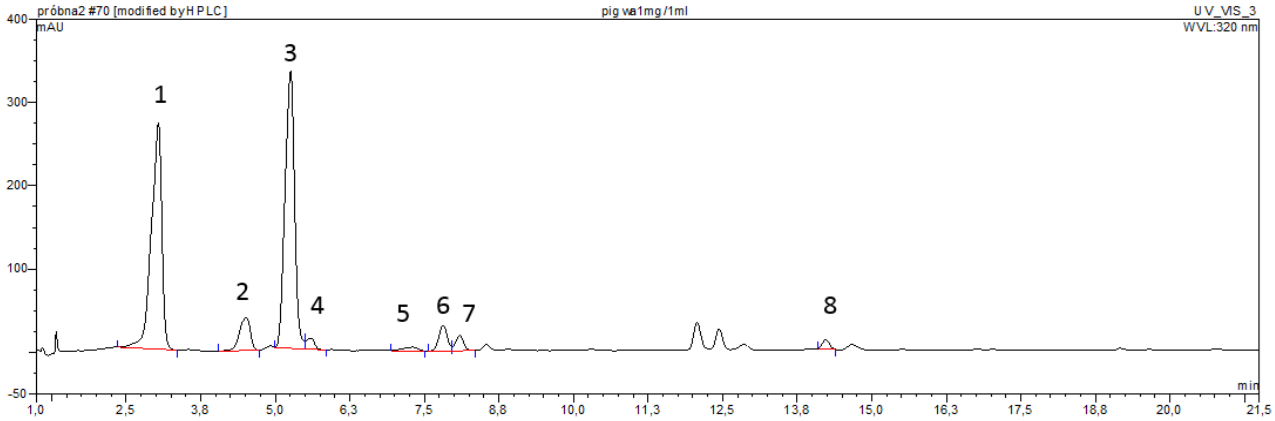
S15: Mass spectra of the ions of procyanidin B2 (Peak 12) in negative mode before and after fragmentation.



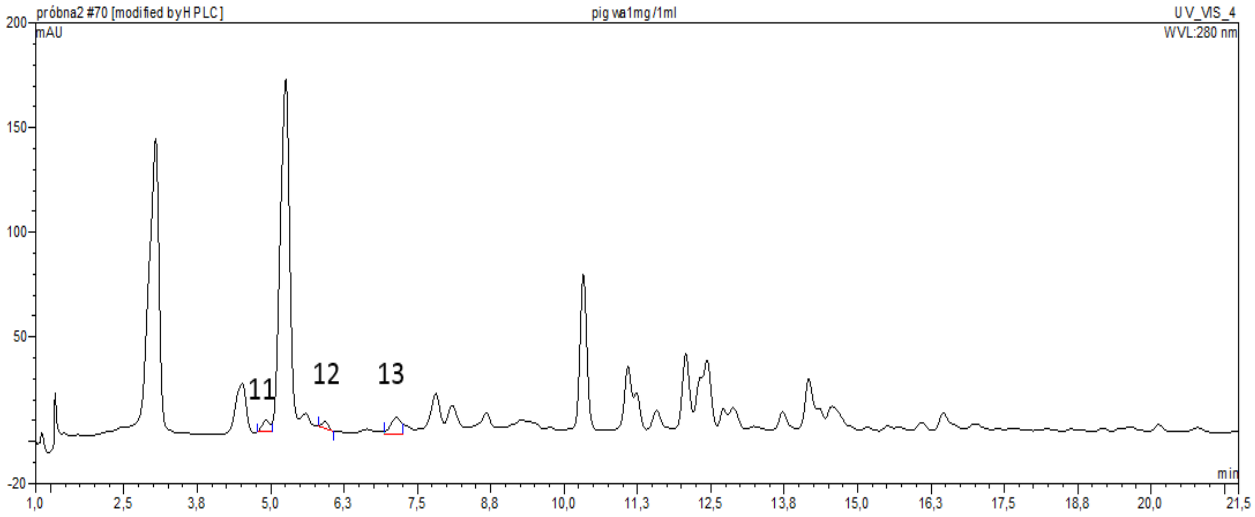
S16: Mass spectra of the ions of procyanidin C1(Peak 13) in negative mode before and after fragmentation.



S17: HPLC-DAD chromatogram (360 nm) of compounds from quince extract. The peak number corresponds to the numbet in Table 1 in manuscript.



S18 : HPLC-DAD chromatogram (320 nm) of compounds from quince extract. The peak number corresponds to the numbet in Table 1 in manuscript.



S19: HPLC-DAD chromatogram (280 nm) of compounds from quince extract. The peak number corresponds to the numbet in Table 1 in manuscript.