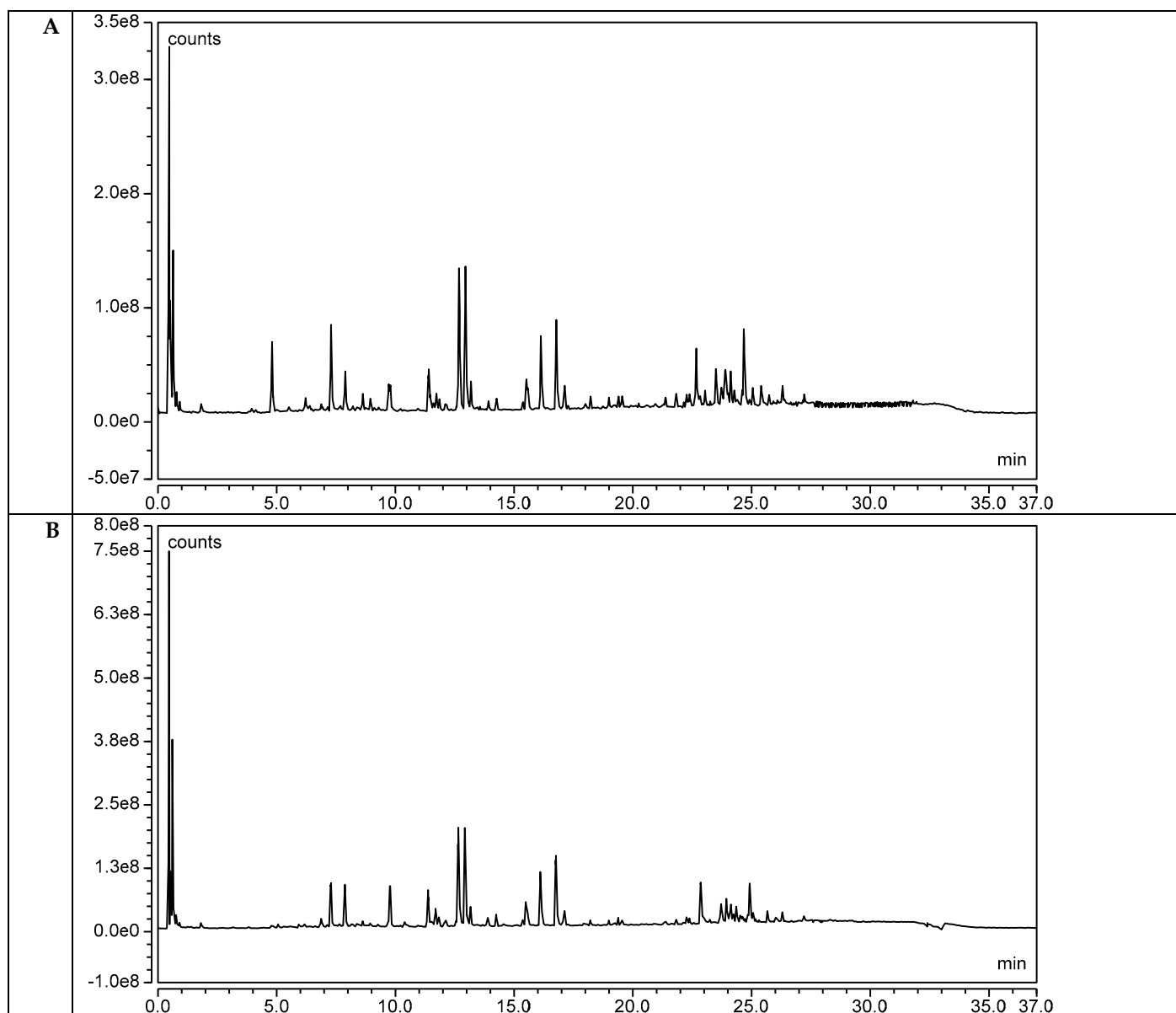
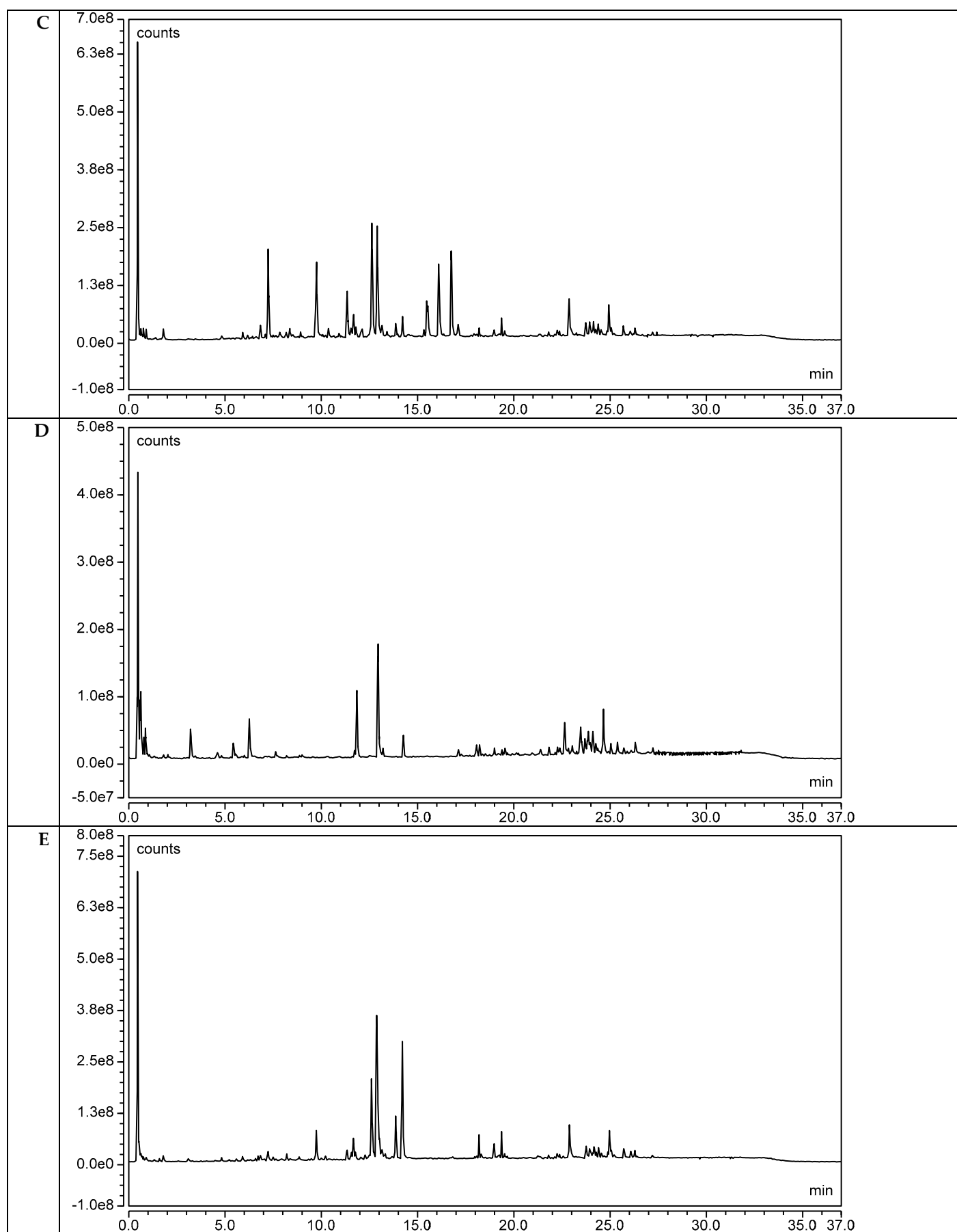


Supplementary material

Inhibitory Effects on *Staphylococcus aureus* Sortase A by *Aesculus* Sp. Extracts and Their Toxicity Evaluation





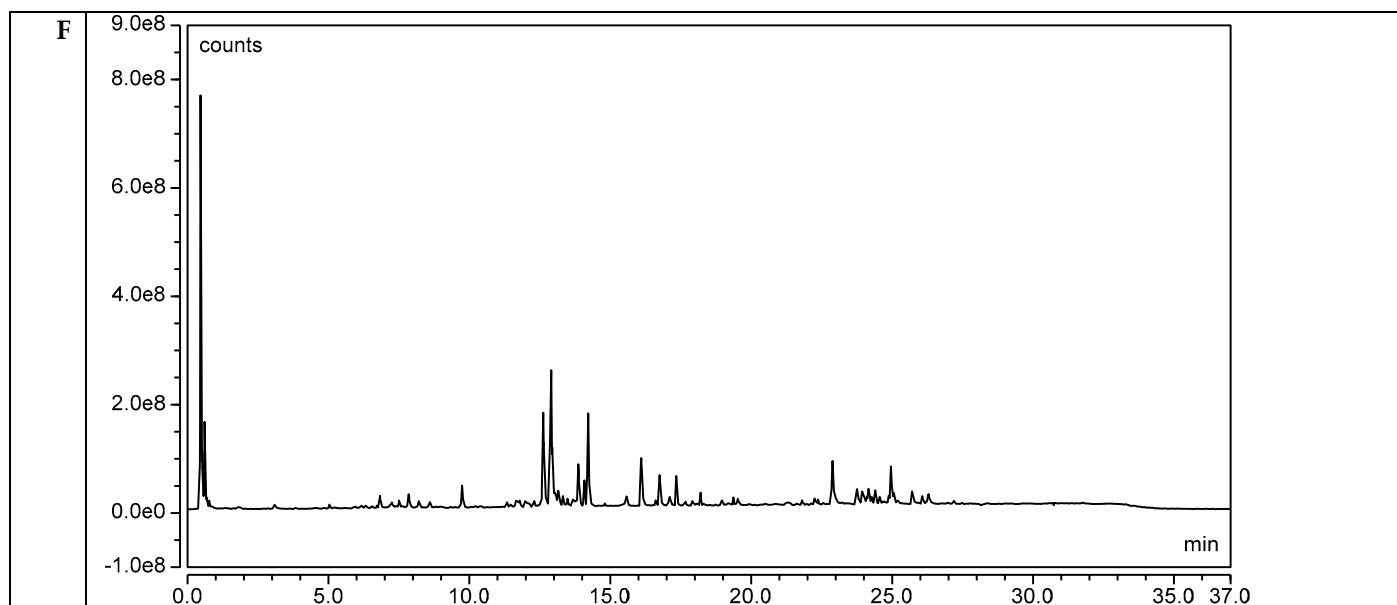
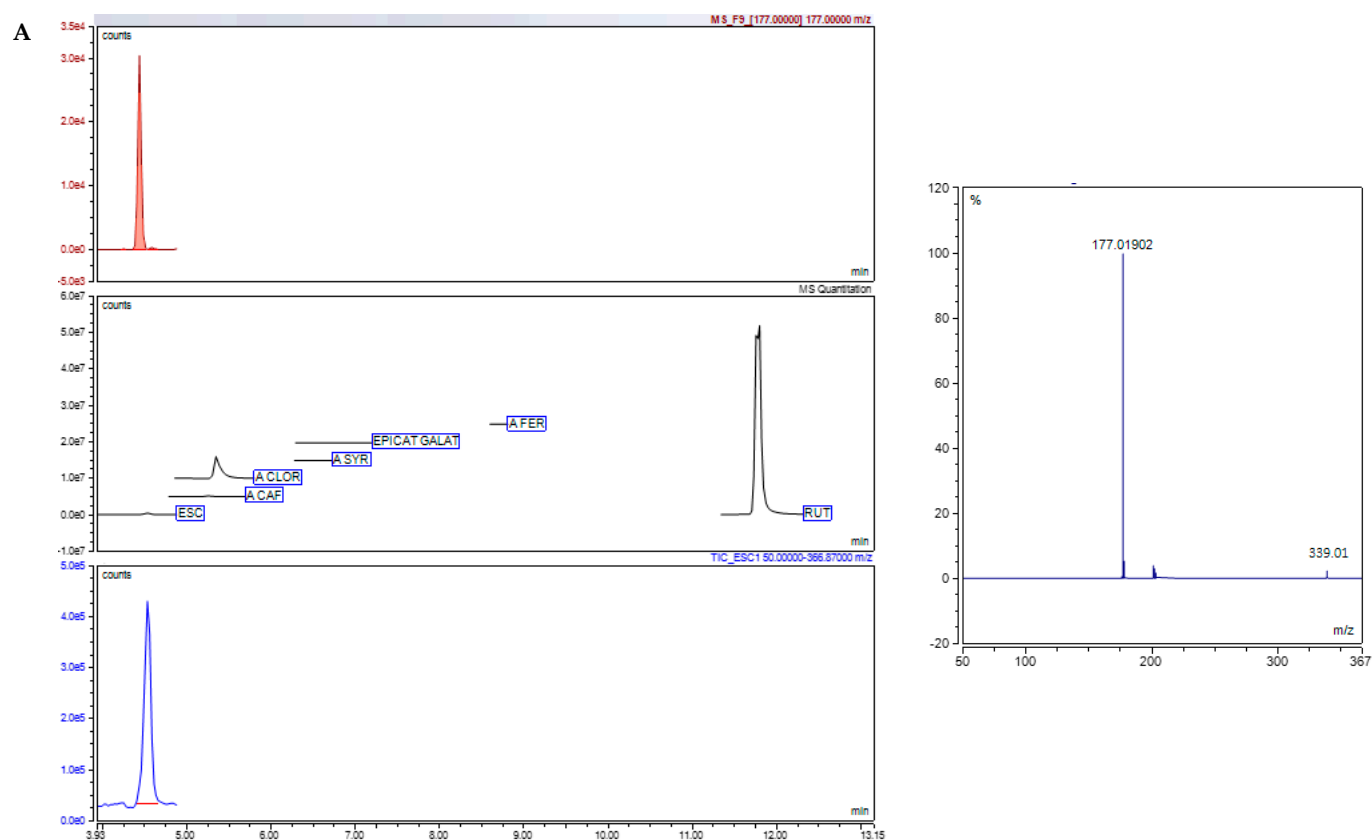
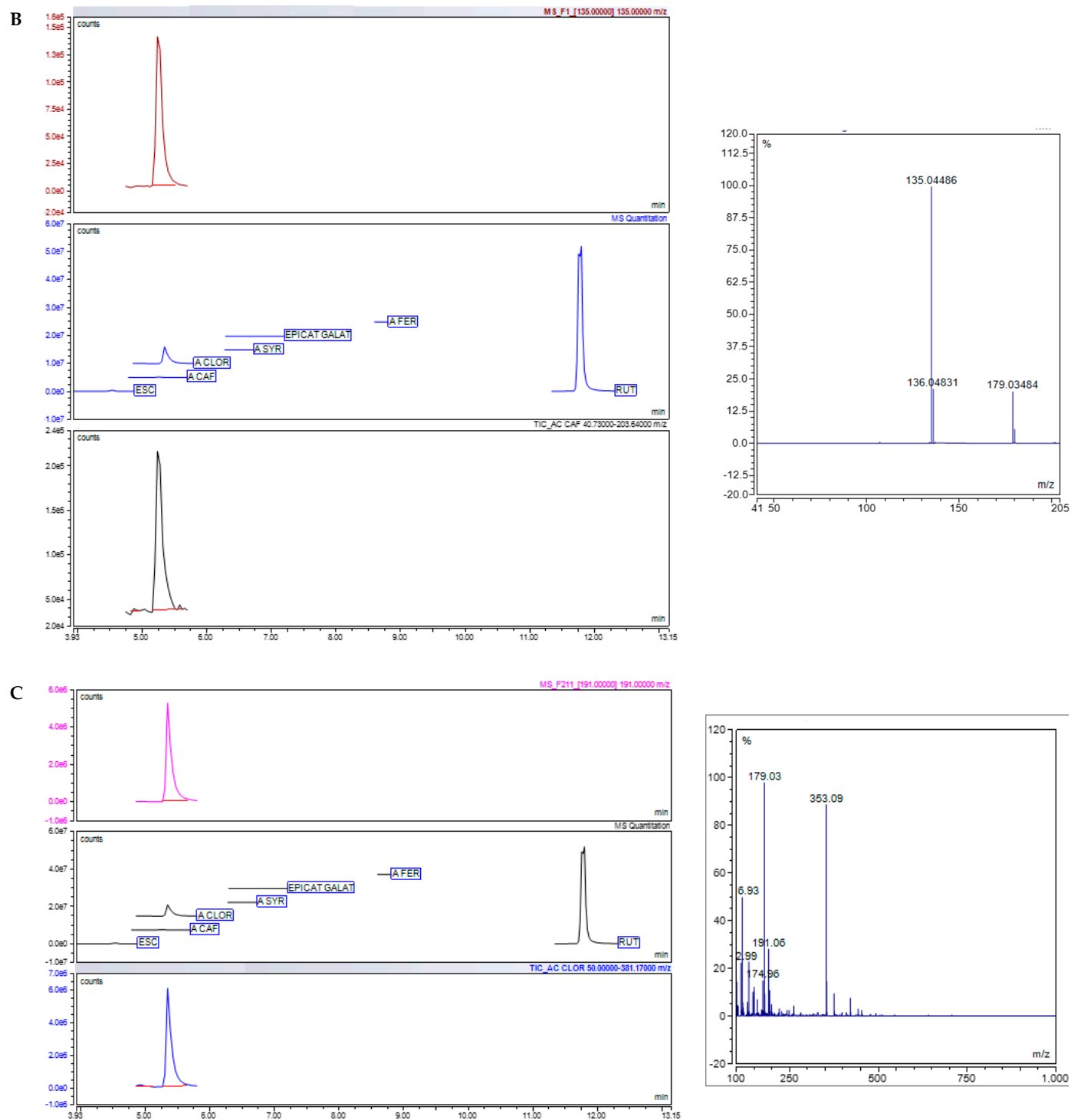
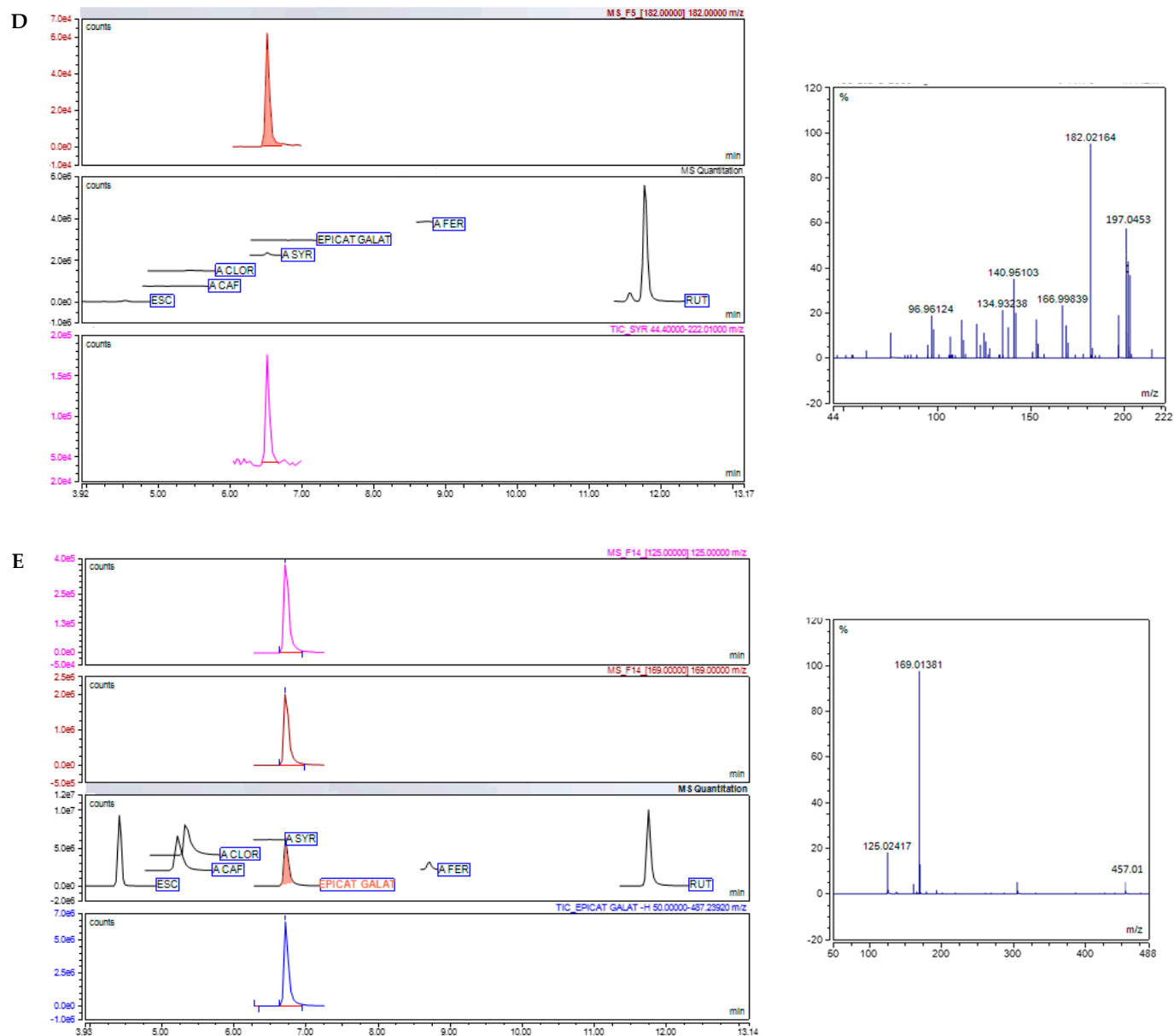


Figure S1. Full-scan total ion chromatogram of the new extracts: (a) PVw - aqueous extract from *Aesculus pavia* leaves; (b) PVm - ethanolic 50% extract from the leaves of *Aesculus pavia*; (c) PVe - ethanolic 96% extract of *Aesculus pavia* leaves; (d) PRw - aqueous extract of *Aesculus parviflora* leaves; (e) HCe - ethanolic extract 96% from leaves of *Aesculus hippocastanum*; (f) CRm - ethanolic 50% extract from leaves of *Aesculus x carnea*.







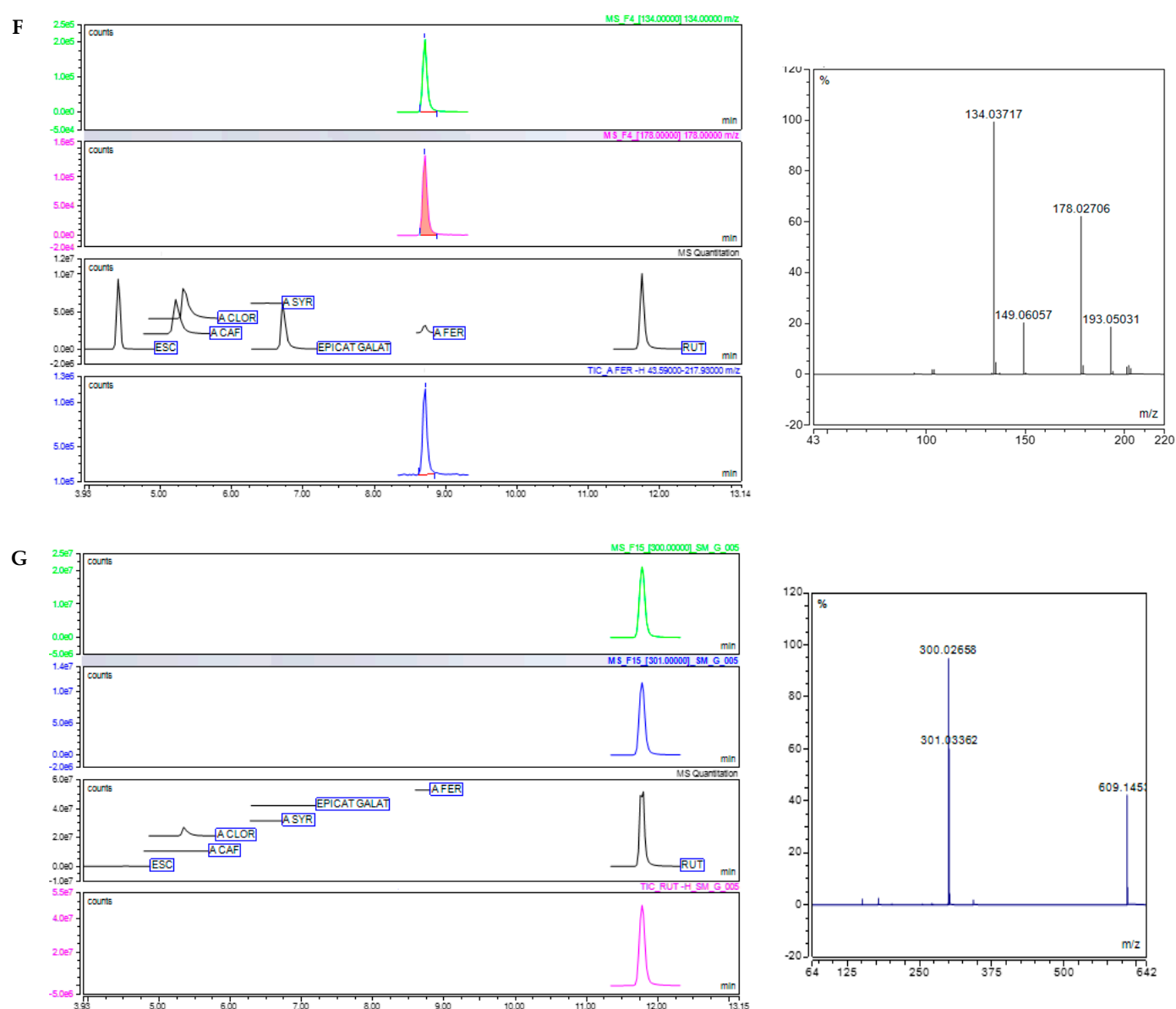


Figure S2. The chromatograms and mass spectra of the standards: (a) esculin; (b) caffeic acid; (c) chlorogenic acid; (d) syringic acid; (e) epigallocatechin gallate; (f) ferrulic acid; (g) rutin

Analytical performance of the method

The method has provided chromatographic separation of polyphenolic compounds and detection of the target analytes via HRMS analysis within 37 minutes run time. The analytical performance of the method was expressed in terms of linearity, correlation coefficient, limit of detection (LOD) and limit of quantification (LOQ).

Linearity was evaluated by the correlation coefficient and all the target analytes have met the acceptance criteria of the calibration, respectively $R^2 \geq 0.995$. The correlation coefficient ranges from 0.998 to 0.999 (Table S1). A 6 level-point calibration curve was obtained for each standard, with the calibration range of 250–2000 ng/mL. Sample concentrations were calculated according to the regression parameters of the calibration curve.

The limit of detection (LOD) and the limit of quantification (LOQ) for each target compound were determined based on the calibration curve as 3.3 times and 10 times, respectively, the standard deviation of the response, divided by the slope of the calibration curve.

Table S1. Linearity, LOD and LOQ data

Compound	Calibration range	Correlation coefficient	LOD, ng/mL	LOQ, ng/mL
Esculin	250-2000 ng/mL	0.999	148.25	449.23
Caffeic acid	250-2000 ng/mL	0.998	148.64	450.43
Chlorogenic acid	250-2000 ng/mL	0.999	169.64	514.05
Syringic acid	250-2000 ng/mL	0.999	133.78	405.38
Epigallocatechin gallate	250-2000 ng/mL	0.998	177.51	284.87
Ferulic acid	250-2000 ng/mL	0.999	160.31	485.79
Rutin	250-2000 ng/mL	0.999	121.59	368.47