

**Supplementary Table S1**

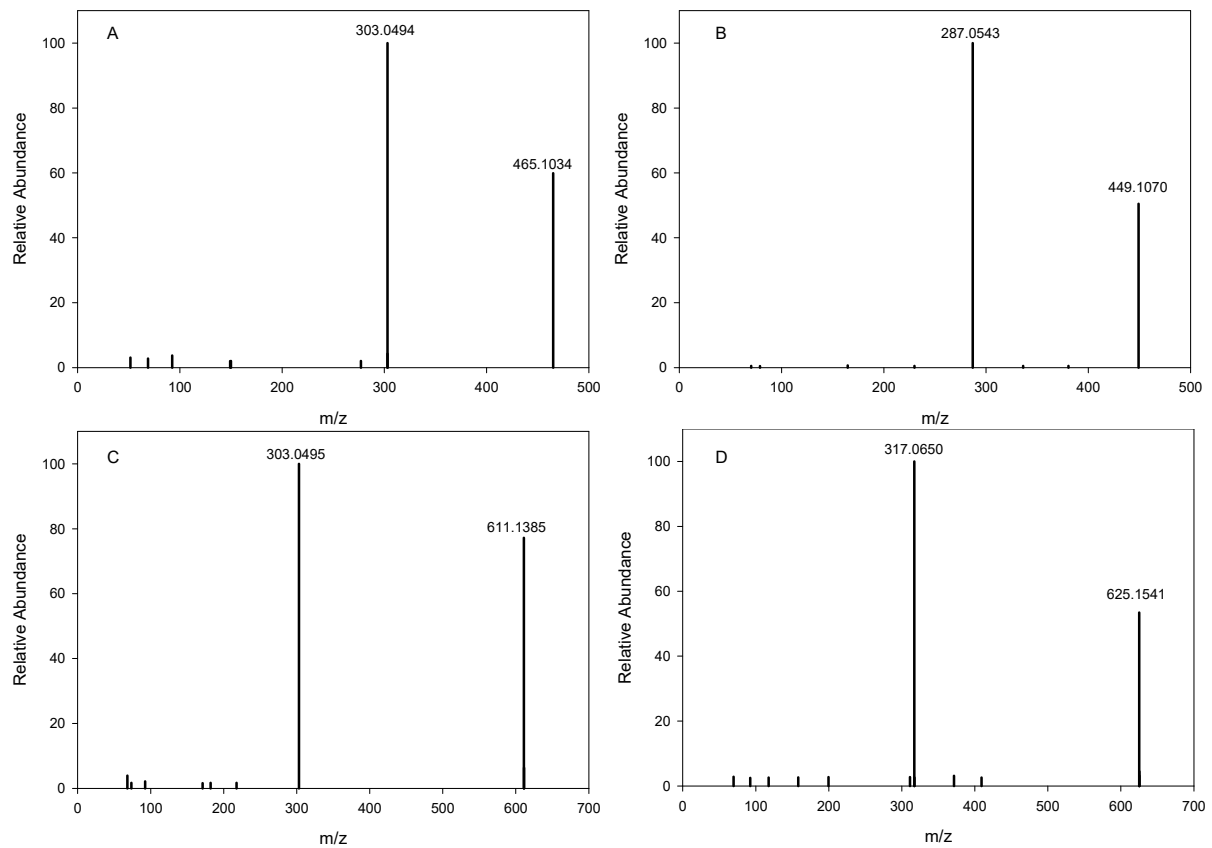
Minor anthocyanin pigments detected in purple tea

RT (min)	Identity of anthocyanin	Major ions ( <i>m/z</i> )	
		Anthocyanin	Anthocyanidin base
8.1	Pt-Hex	479.1167	317.0648
8.5	Pl-Hex	433.1124	271.0598
8.7	Pt-Hex	479.1167	317.0648
14.6	Cy-Cou-Hex	595.1439	287.0544
15.1	Pt-Cou-Hex	625.1547	317.0648
15.9	Pl-Cou-Hex	579.1491	271.0592
17.5	Pl-Cou-Hex	579.1491	271.0592
17.9	Pt-Cou-Hex	625.1547	317.0649
19.3	Pl-Cou-Hex	579.1491	271.0592

<sup>y</sup>Cou, coumaroyl; Cy, cyanidin; Hex, Hexoside; Pl-Pelargonidin; Pt, petunidin.

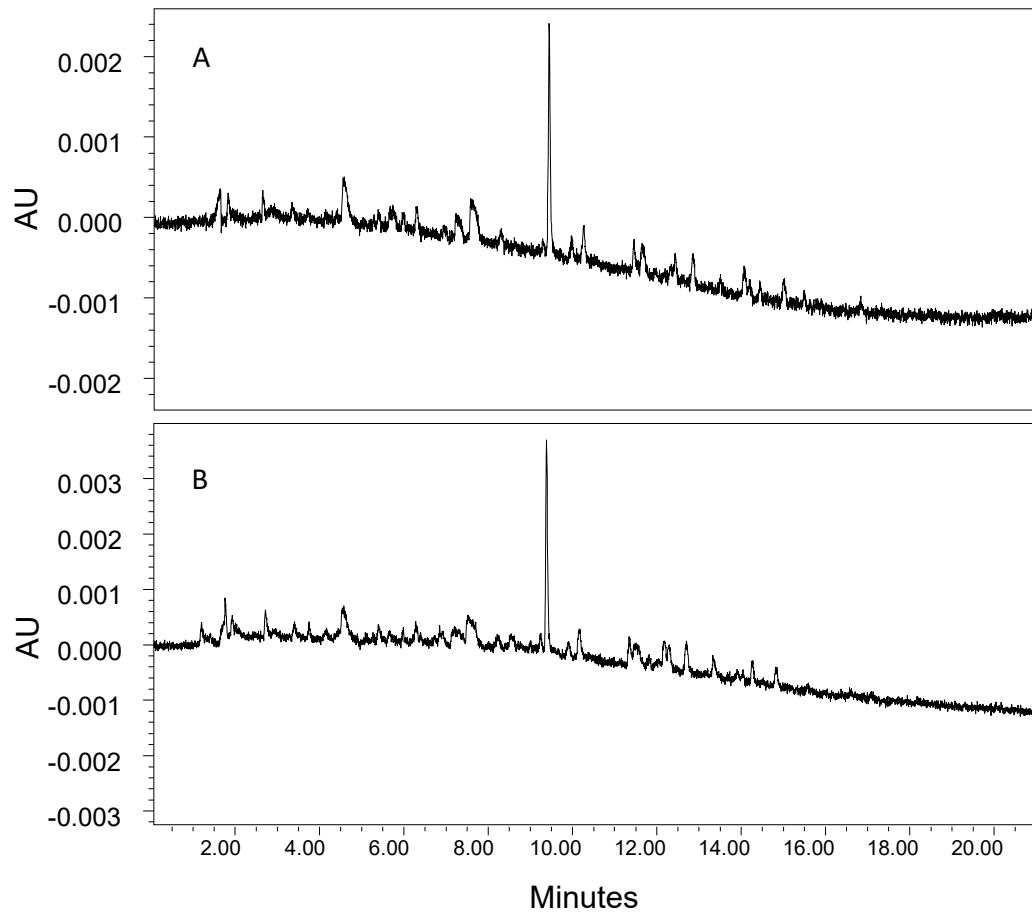
## Supplementary Figure S1

MS fragmentation spectra of (A) peak 1 (Dp-3-Gal), (B), peak 3 (Cy-3-Gal), (C) peak 7 (Dp-Cou-Hex) and (D) peak 9 (Pt-Cou-Hex).



### Supplementary Figure S2

Typical UPLC chromatograms of green tea leaves (A) and flakes (B) showing no anthocyanin peaks.



**Supplementary Table S1.** Minor anthocyanin pigments detected in purple tea

**Supplementary Figure S1.** MS fragmentation spectra of (A) peak 1 (Dp-3-Gal), (B), peak 3 (Cy-3-Gal), (C) peak 7 (Dp-Cou-Hex) and (D) peak 9 (Pt-Cou-Hex).

**Supplementary Figure S2.** Typical UPLC chromatograms of green tea leaves (A) and flakes (B) showing no anthocyanin peaks.