

Supplementary materials

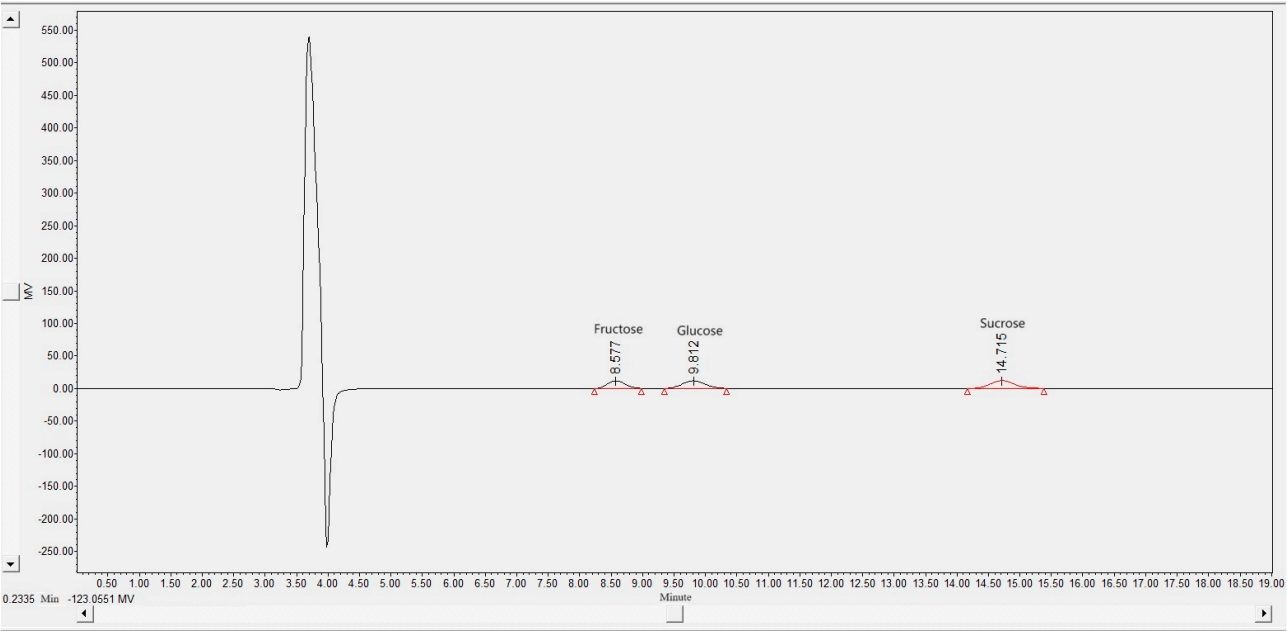


Figure S1: The standard chromatogram of fructose, glucose, and sucrose

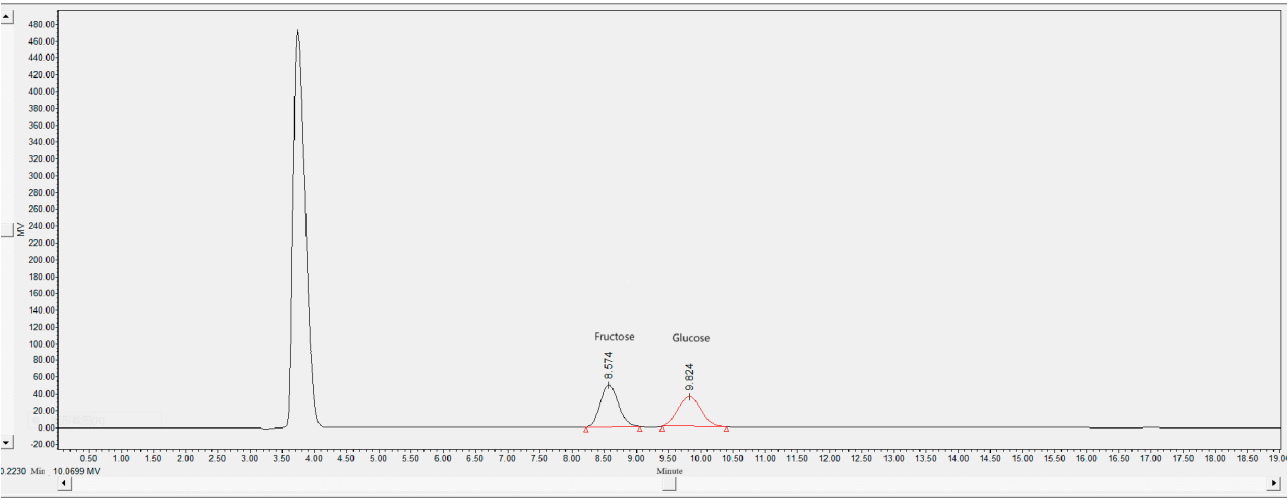


Figure S2: Detection of fructose, glucose, and sucrose profiles in the sample

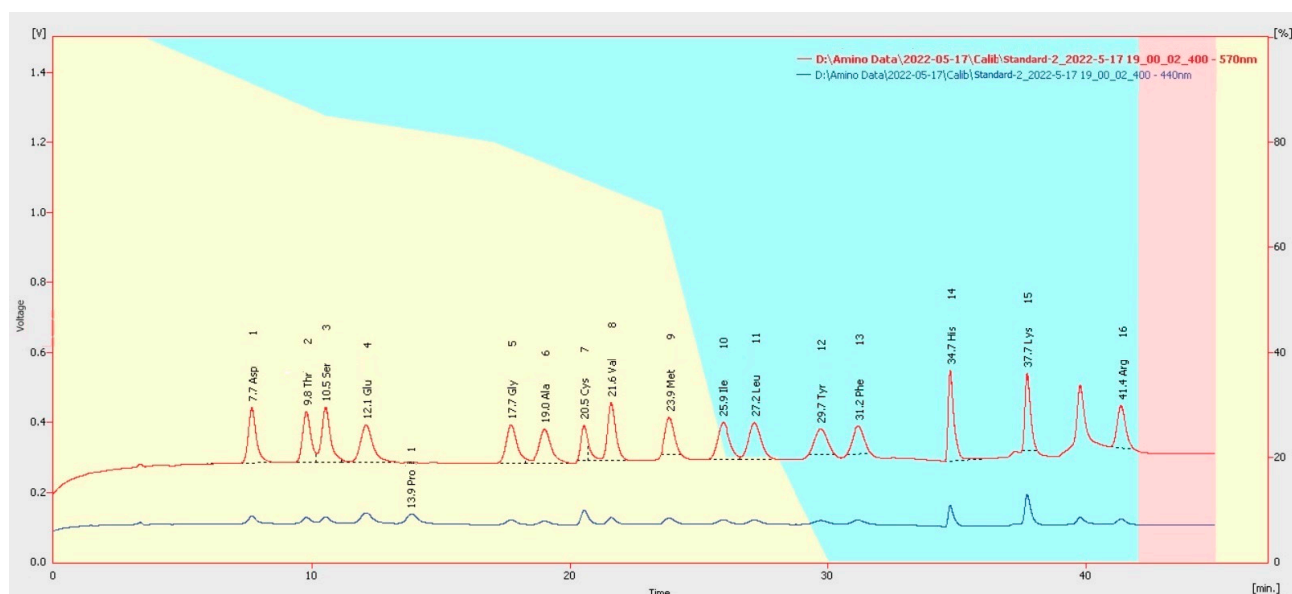


Figure S3: The red line represents the spectrum of amino acid standards at 570 nm, while the blue line represents the spectrum of amino acid standards at 440 nm. Note: Asp = Aspartic acid; Thr = Threonine; Ser = Serine; Glu = Glutamic acid; Pro = Proline; Gly = Glycine; Ala = Alanine; Cys = Cysteine; Val = Valine; Met = Methionine; Ile = Isoleucine; Leu = Leucine; Tyr = Tyrosine; Phe = Phenylalanine; His = Histidine; Lys = Lysine; Arg = Arginine

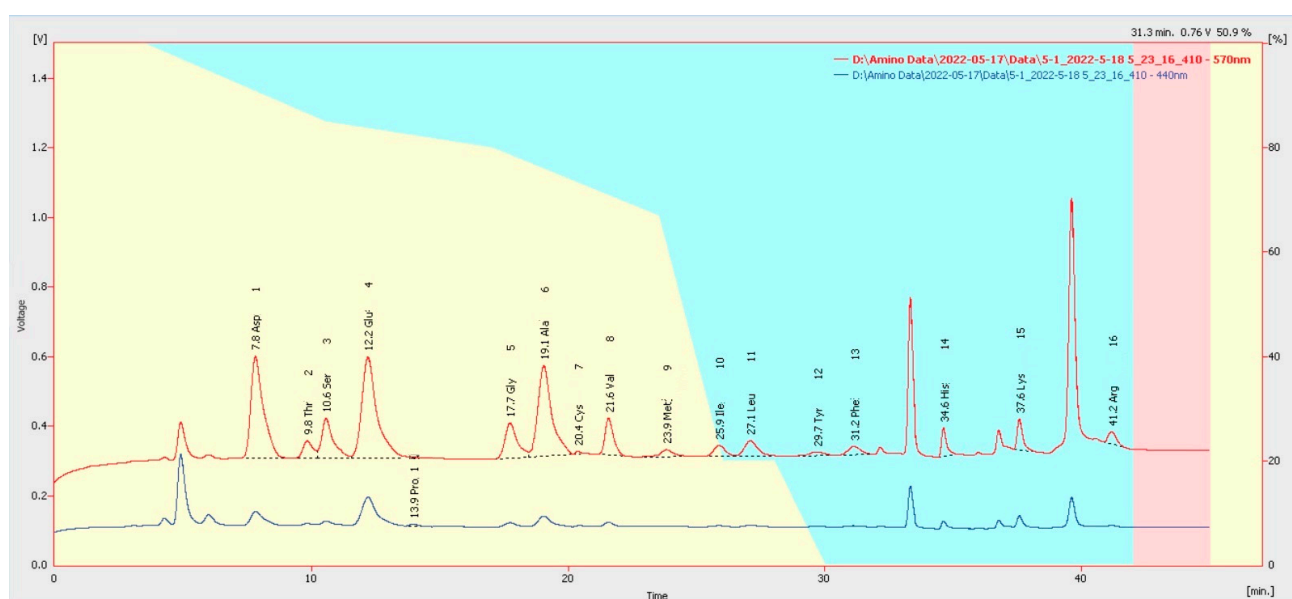


Figure S4: The red line represents the spectrum of amino acids in the sample at 570 nm, while the blue line represents the spectrum of amino acids in the sample at 440 nm. Note: Asp = Aspartic acid; Thr = Threonine; Ser = Serine; Glu = Glutamic acid; Pro = Proline; Gly = Glycine; Ala = Alanine; Cys = Cysteine; Val = Valine; Met = Methionine; Ile = Isoleucine; Leu = Leucine; Tyr = Tyrosine; Phe = Phenylalanine; His = Histidine; Lys = Lysine; Arg = Arginine

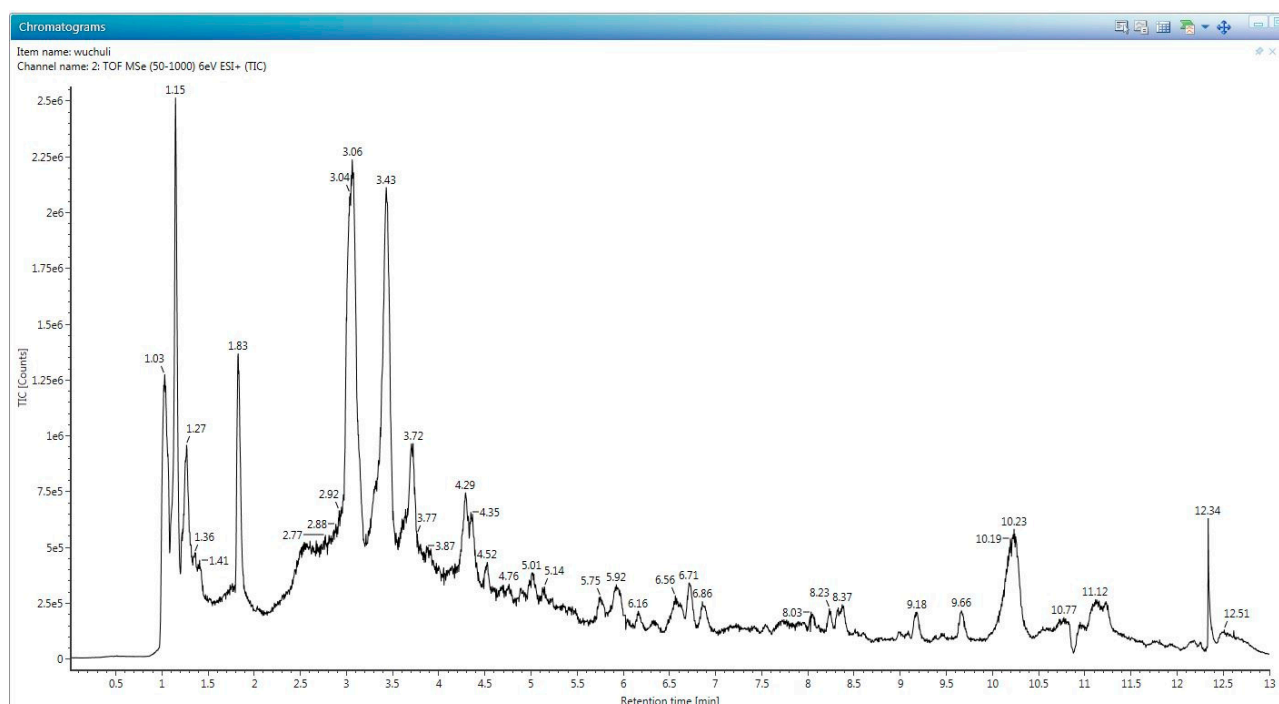


Figure S5: Total ion chromatogram of phenolic substances in raisins based on UPLC-VION-IMS-QTOF