

Exploring the Volatile Fingerprinting of Young Portuguese Monovarietal Red Wines by HS-SPME-GC×GC-TOFMS: A Five-Year Study

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Supplementary Files

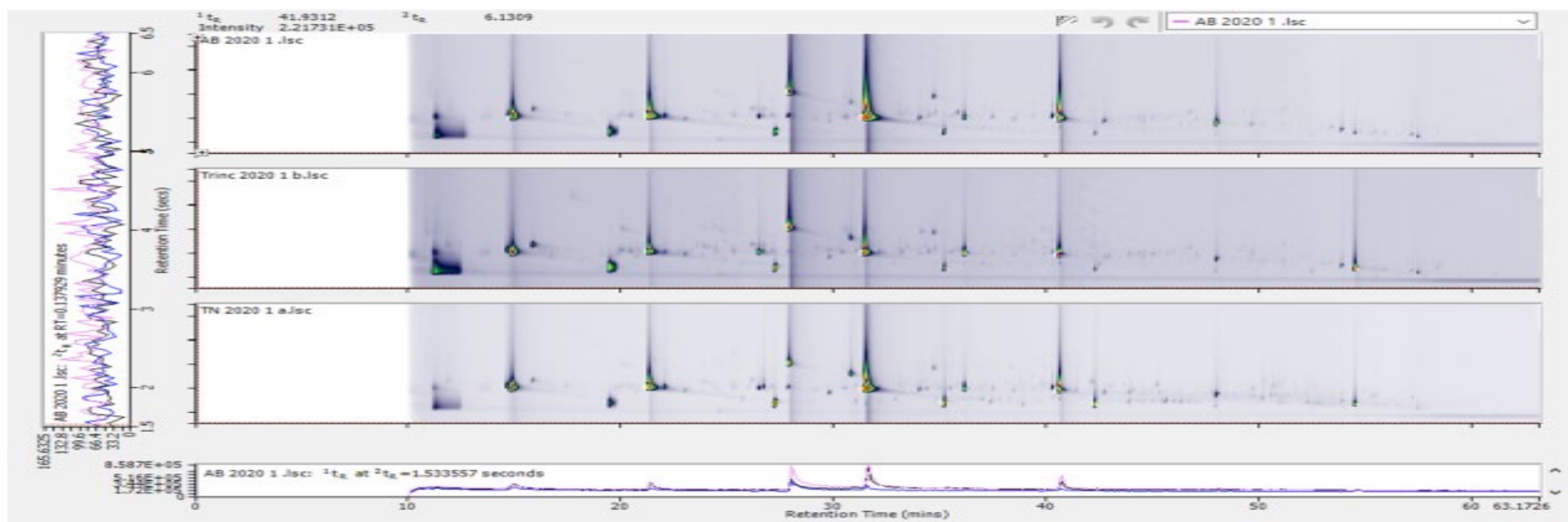
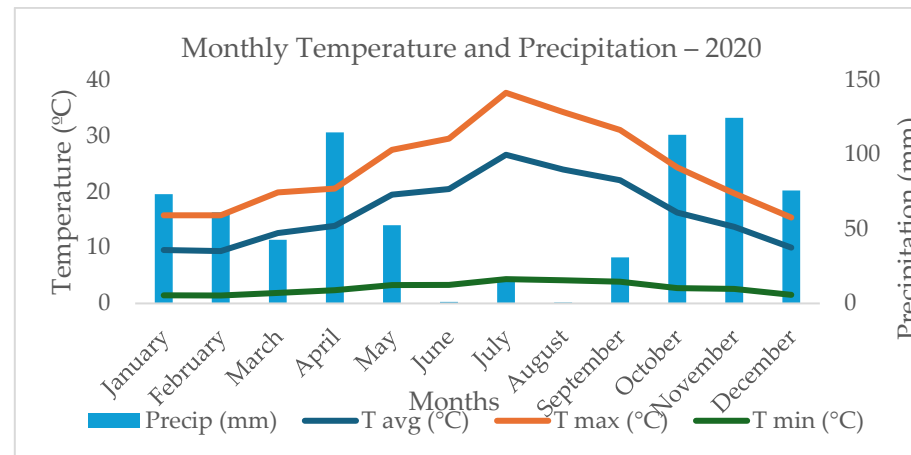
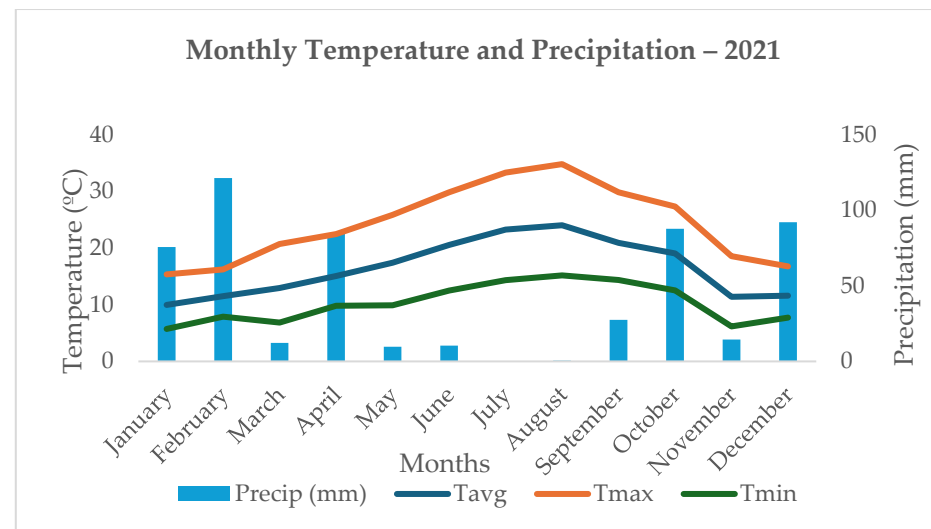


Figure S1. Representative GC×GC-ToFMS contour plots obtained for the 2020 wines of the three grape varieties studied: Alicante Bouschet (AB), Trincadeira (Trinc), and Touriga Nacional (TN). The graphs illustrate the typical pattern of two-dimensional separation and peak distribution obtained under the analytical conditions described in Section 3.4. The lower panel shows the corresponding first-dimension chromatographic profile for one example (AB 2020).



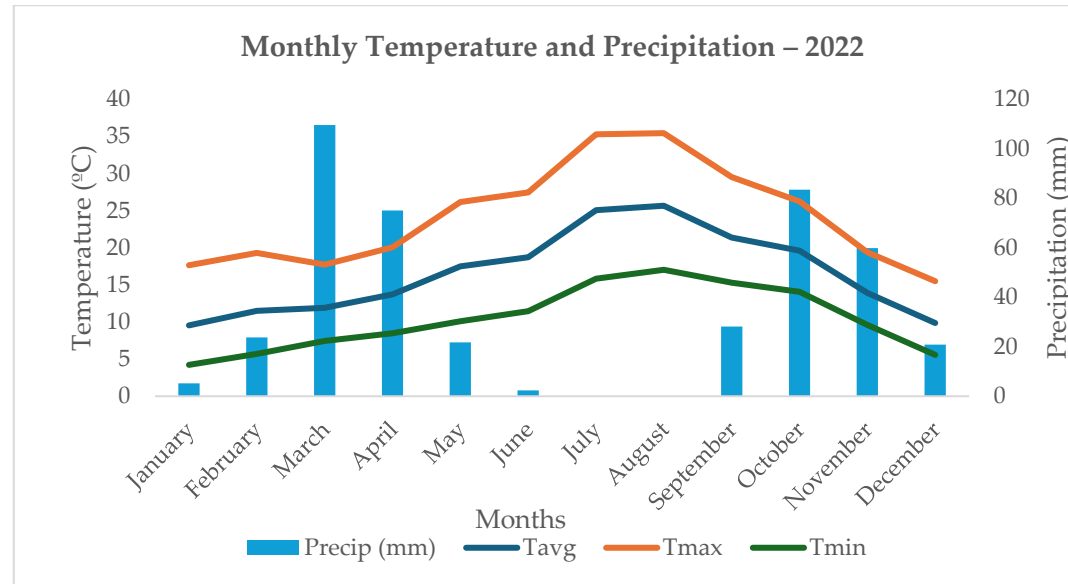
Precip = precipitation, Tavg = mean temperature average, Tmax = mean maximum temperature, Tmin = mean minimum temperature.

Figure S2. Monthly temperature (average, maximum, and minimum) and precipitation recorded at the Mitra weather station (Évora, Portugal) during the 2020 year.



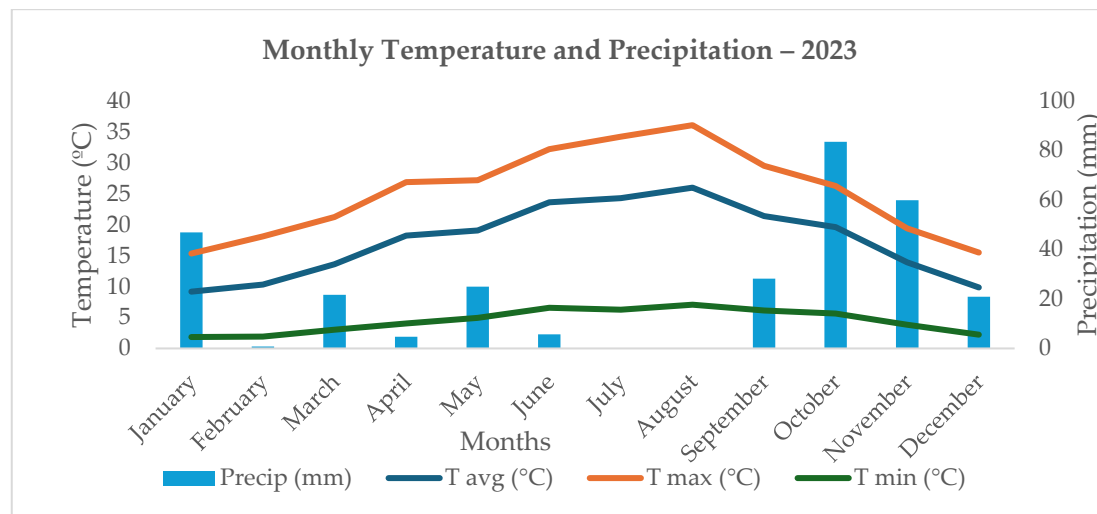
Precip = precipitation, Tavg = mean temperature average, Tmax = mean maximum temperature, Tmin = mean minimum temperature.

Figure S3. Monthly temperature (average, maximum, and minimum) and precipitation recorded at the Mitra weather station (Évora, Portugal) during 2021.

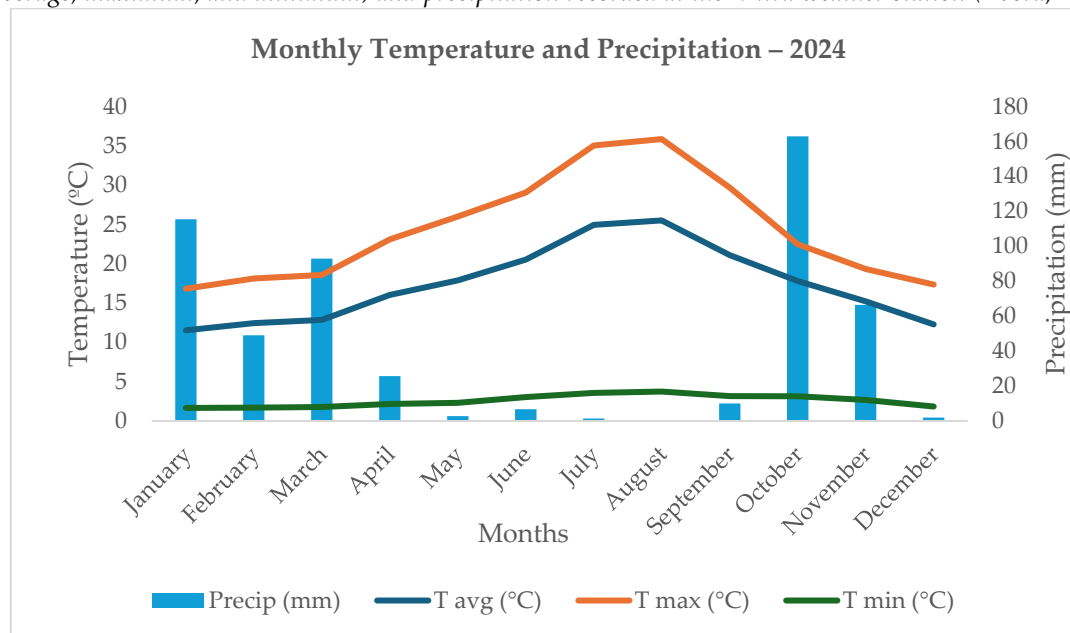


Precip = precipitation, Tavg = mean temperature average, Tmax = mean maximum temperature, Tmin = mean minimum temperature.

Figure S4. Monthly temperature (average, maximum, and minimum) and precipitation recorded at the Mitra weather station (Évora, Portugal) during 2022.



Precip = precipitation, Tavg = mean temperature average, Tmax = mean maximum temperature, Tmin = mean minimum temperature.
Figure S5. Monthly temperature (average, maximum, and minimum) and precipitation recorded at the Mitra weather station (Évora, Portugal) during 2023.



Precip = precipitation, Tavg = mean temperature average, Tmax = mean maximum temperature, Tmin = mean minimum temperature.

Figure S6. *Monthly temperature (average, maximum, and minimum) and precipitation recorded at the Mitra weather station (Évora, Portugal) during 2024.*