FTIR-ATR, FT-RAMAN ad CG-FID assessment of discrimination of aged wine spirits under different conditions



















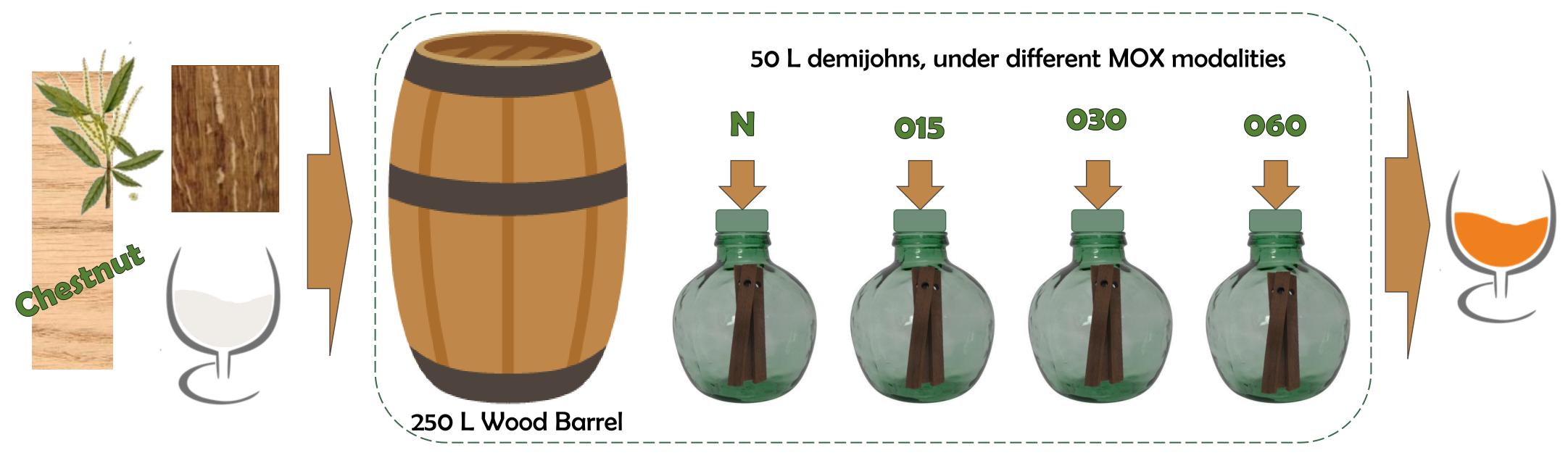


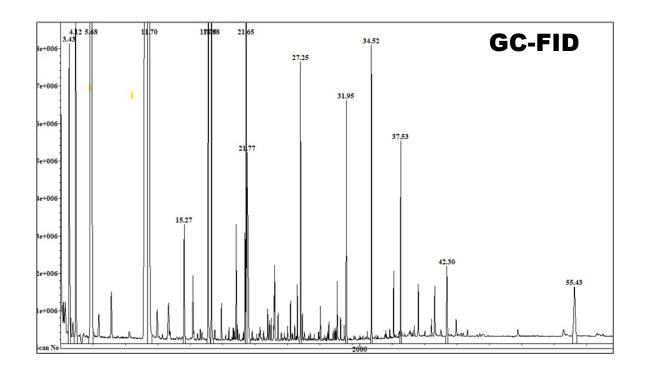
Ofélia Anjos,^{1,2,3} Ilda Caldeira,^{4,5} Cláudia Vitória,⁶ Soraia I. Pedro,^{1,3} Tiago A. Fernandes,^{7,8} Laurent Fargeton,⁹ Benjamin Boissier,⁹ Sofia Catarino,^{10,11} Sara Canas,^{1,2}

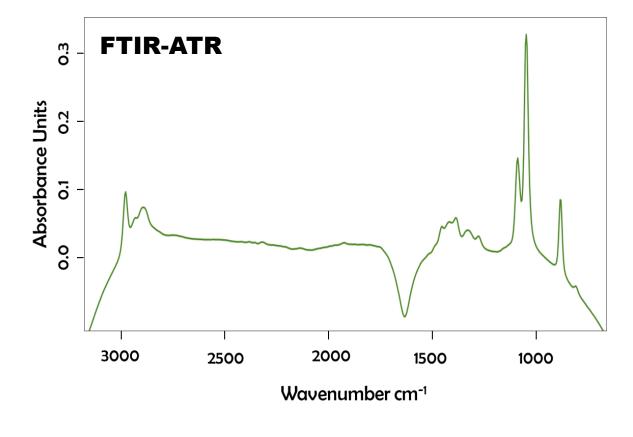
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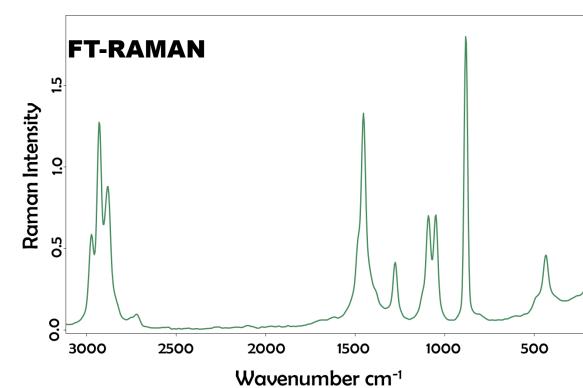


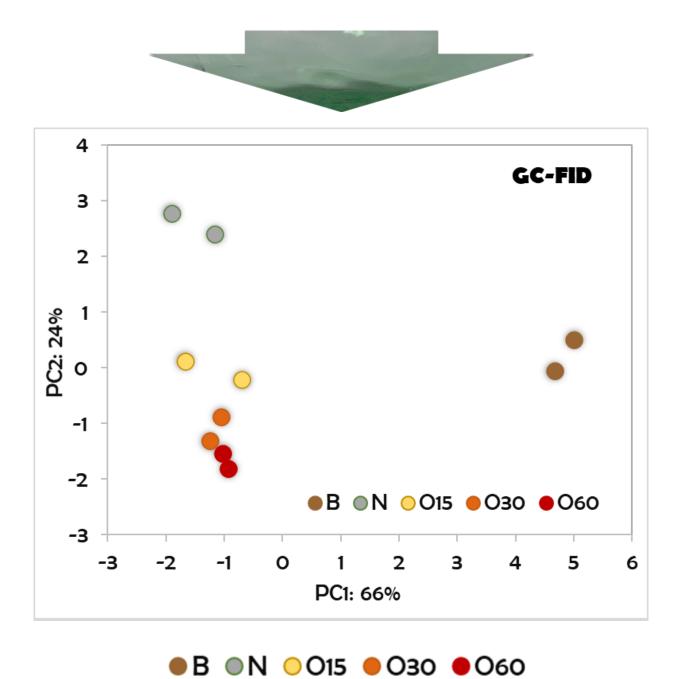
The aim of this work was to evaluate the performance of FTIR-ATR, FT-RAMAN and GC-FID to discriminate wine spirits aged with chestnut wood during one year in 250 L wooden barrels and in 50 L demijohns with staves combined with different micro-oxygenation levels.

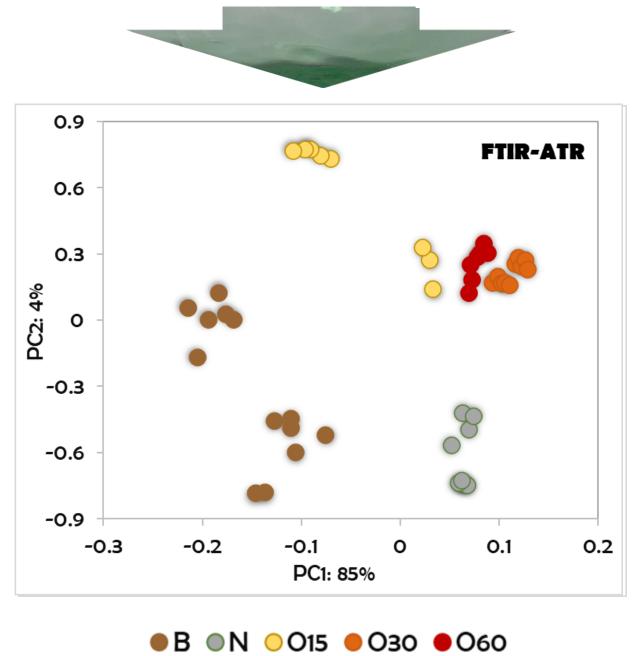


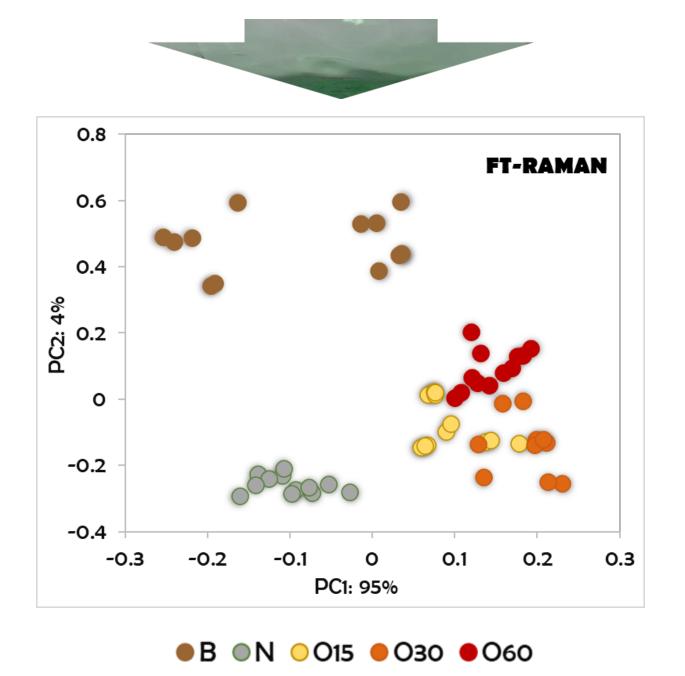












These outcomes show that FTIR-ATR and FT-RAMAN are powerful techniques for the quality control of wine spirits, since they allow a quick discrimination between samples produced with different methodologies.







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