

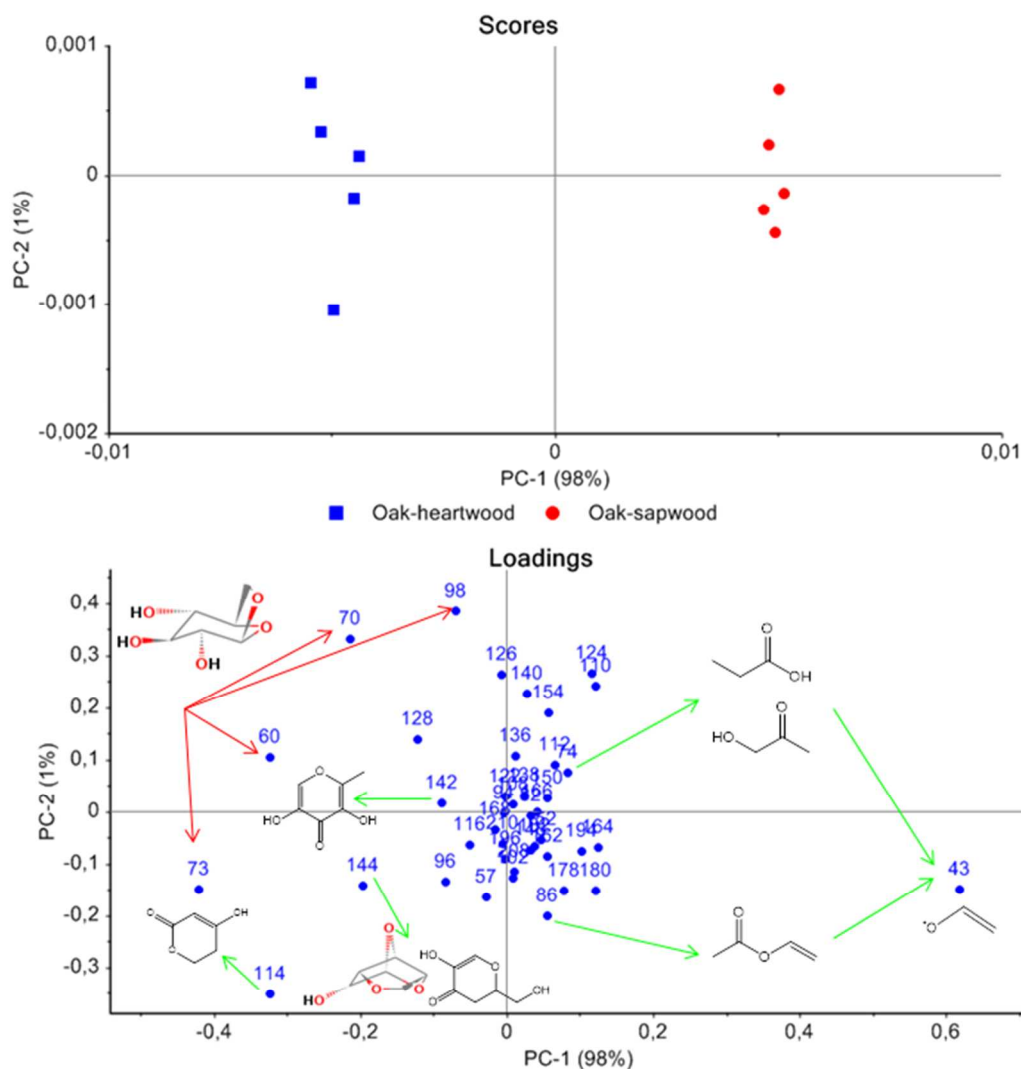


Fig. S.2 PCA of SPI mass spectra of Douglas fir heartwood and sapwood (powders)

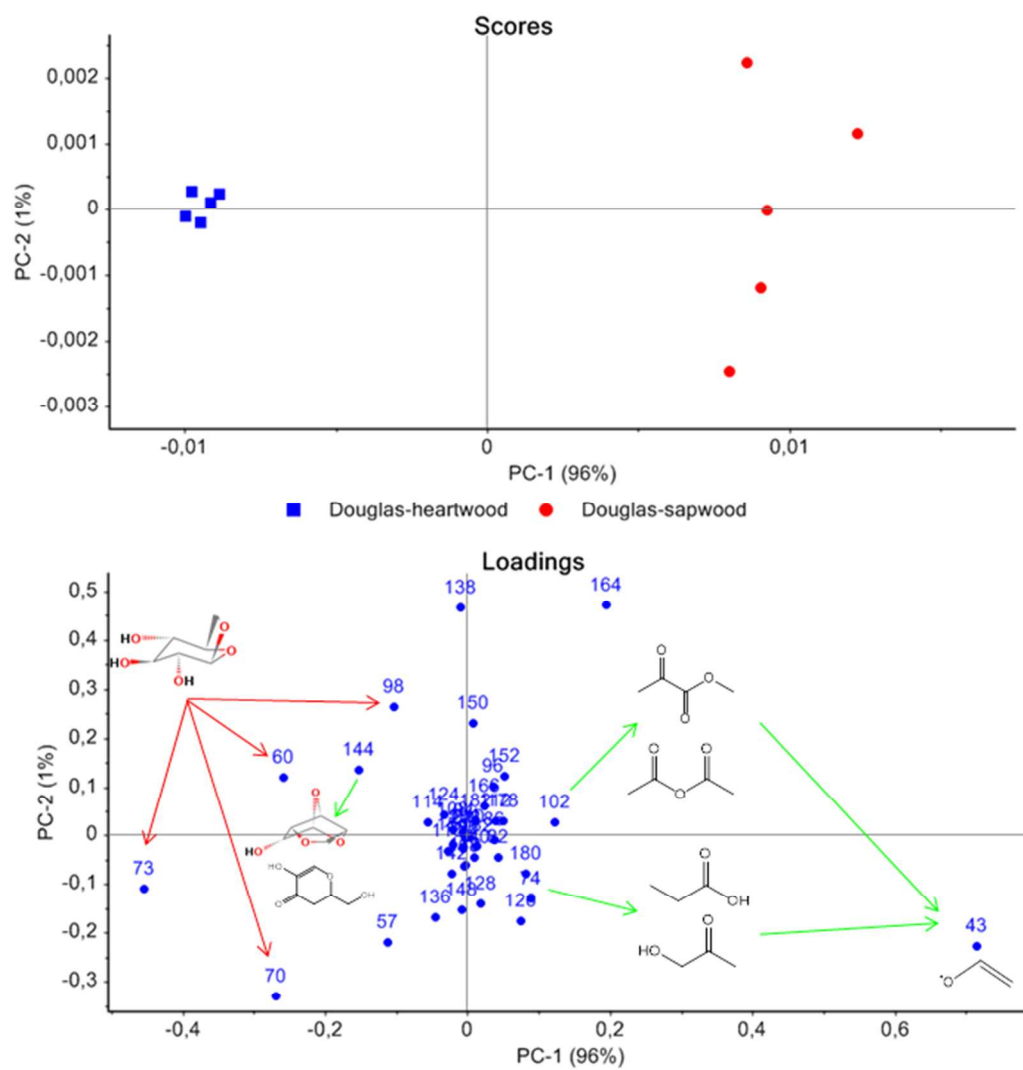


Fig. S.3 PCA of SPI mass spectra of Douglas fir heartwood, sapwood and bark without considering the most two important bark markers of m/z 110 and 124 to more clearly show other markers for bark

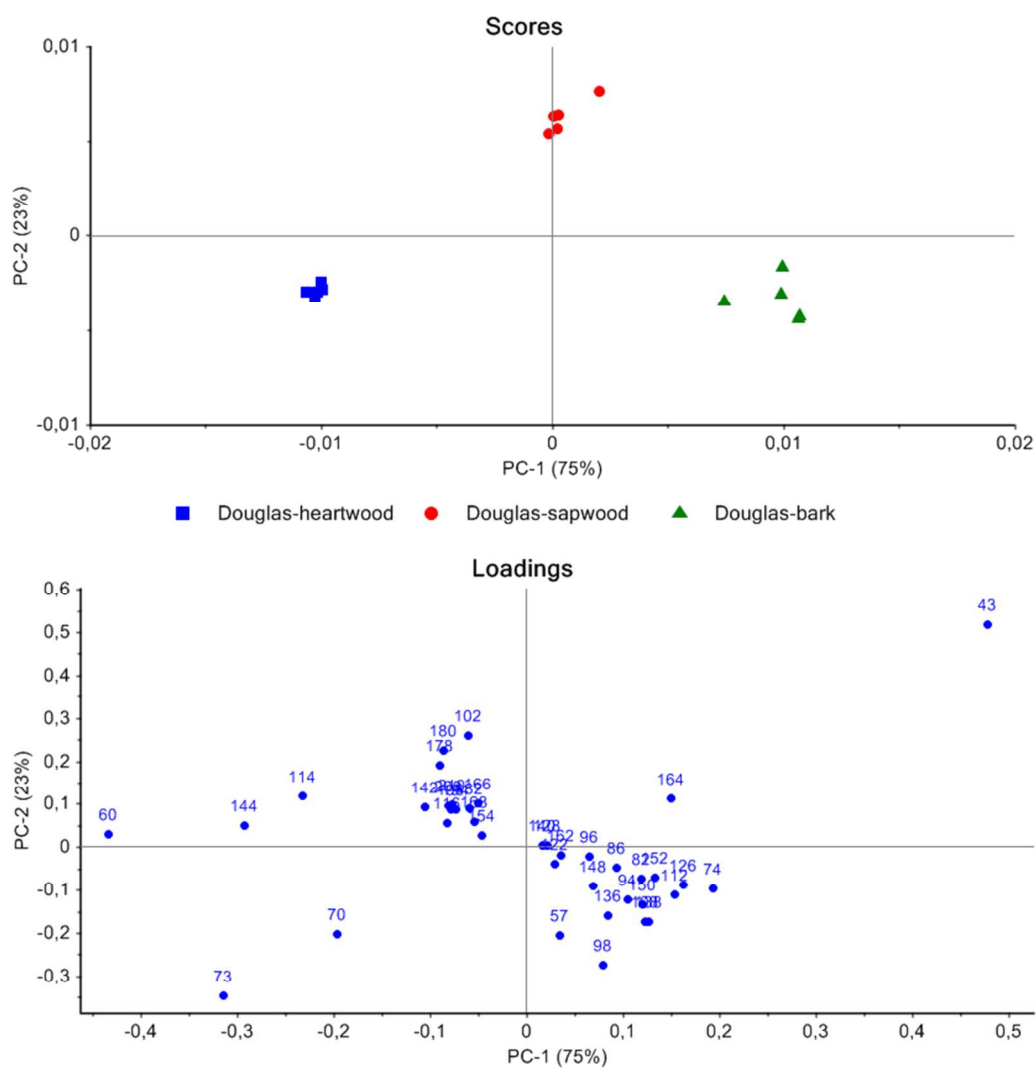


Fig. S.4 Py-GC/MS chromatograms of heartwood, sapwood and bark from Douglas fir and Oak

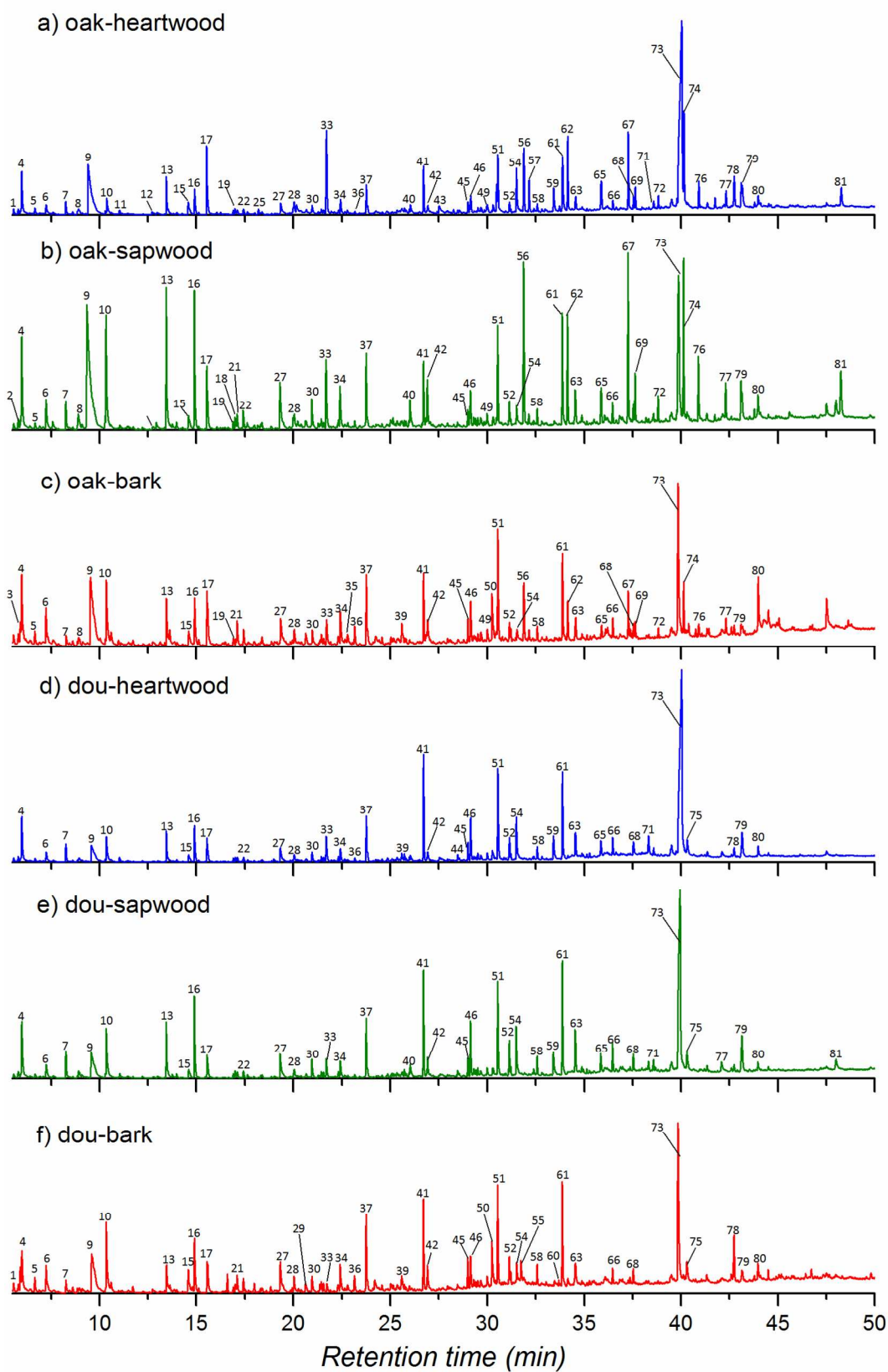


Fig. S.5 SPI-MS total spectra of heartwood and sapwood from Douglas fir and Oak, showing the good reproducibility of MFBR-SPI-MS for cylinders

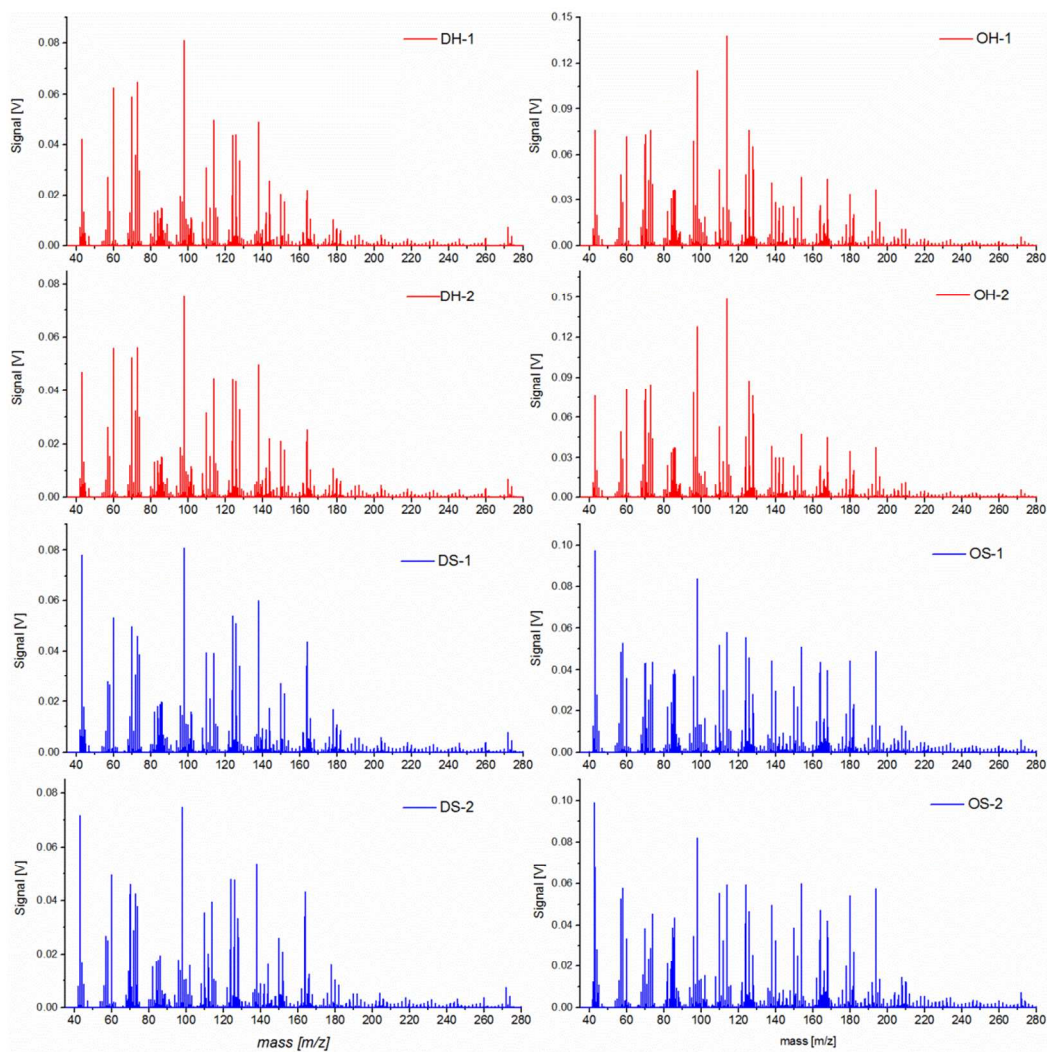


Fig. S.6 Time profiles of typical markers from carbohydrates and lignin analysed on-line by SPI-MS during the pyrolysis of oak cylinder in the MFBR at 500°C, marked difference between oak heartwood and sapwood time resolved profiles.

