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Supporting Information

for

Analysis of sesquiterpene hydrocarbons in grape berry exocarp (*Vitis vinifera* L.) using in vivo-labeling and comprehensive two-dimensional gas chromatography–mass spectrometry (GC×GC–MS)

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Enlarged 2D chromatogram showing the separation of β-elemene, α-guaiene and β-ylangene

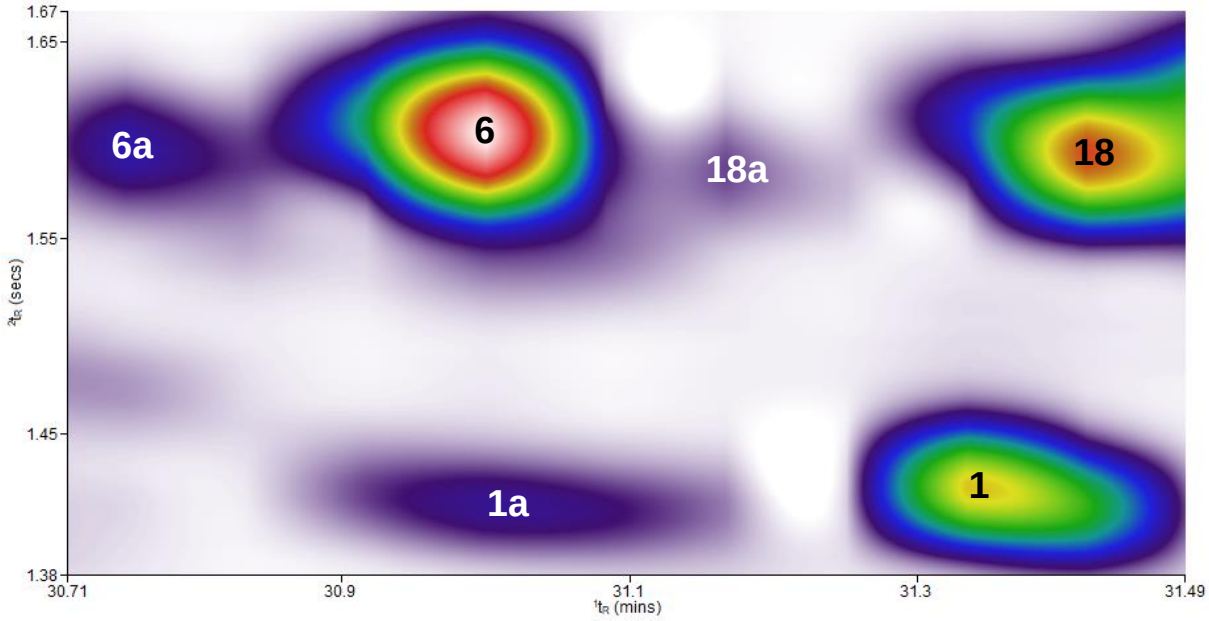

Figure S3: Enlarged, two-dimensional contour plot after successful administration of d_3-MVL to isolated exocarp of grapes of the red wine variety Lemberger. The regions labeled with the numbers **6**, **18** and **1** correspond to the genuine sesquiterpenes β-ylangene, α-guaiene and β-elemene. **6a** (d_8), **18a** (d_9) and **1a** (d_9) are the isotopologues with the highest, possible incorporation of deuterium when d_3-MVL is used as precursor (the maximum possible number of deuterium atoms incorporated is given in brackets).