

Supporting information

A new chemoenzymatic synthesis of the chiral key intermediate of the antiepileptic brivaracetam

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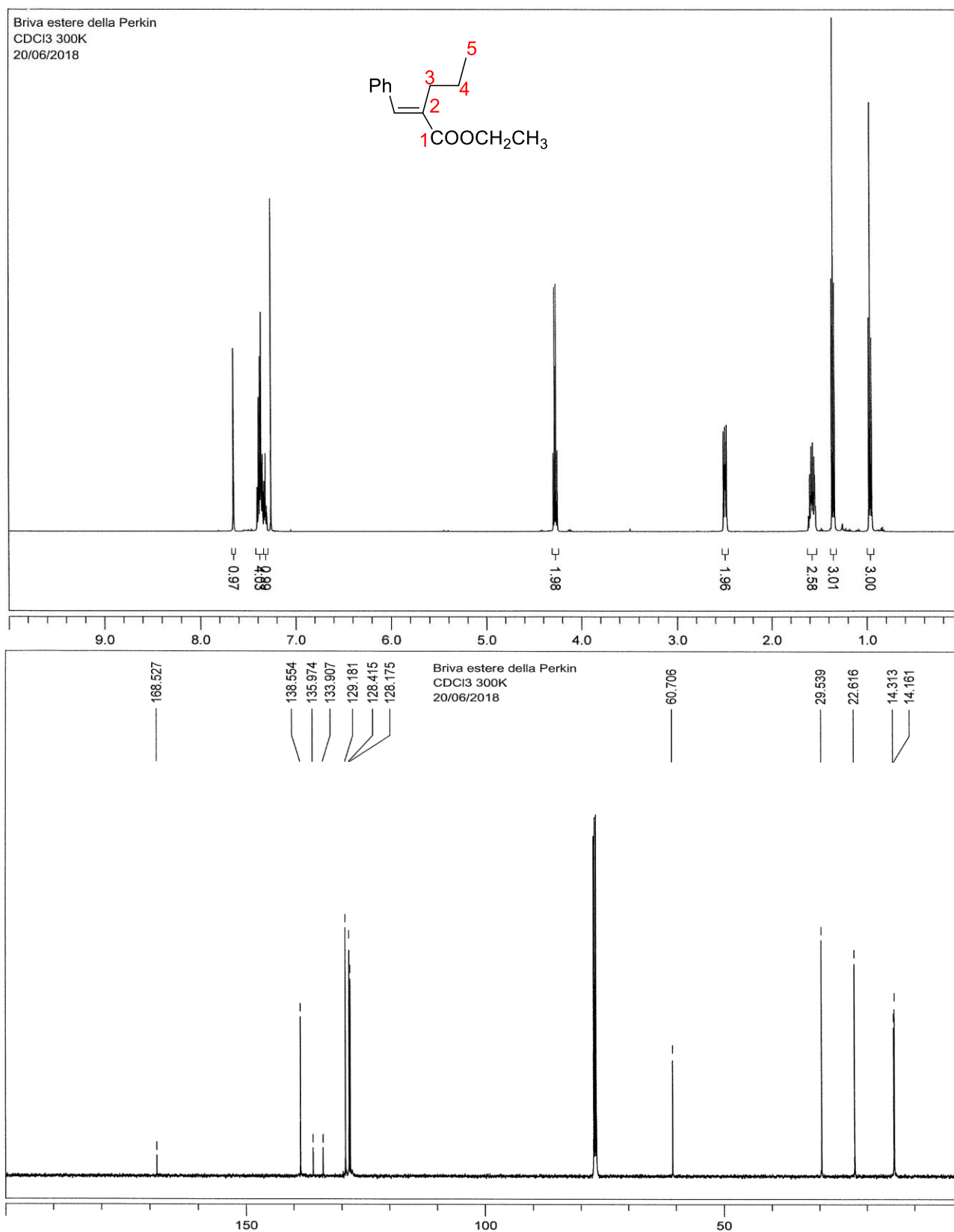
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Table of contents

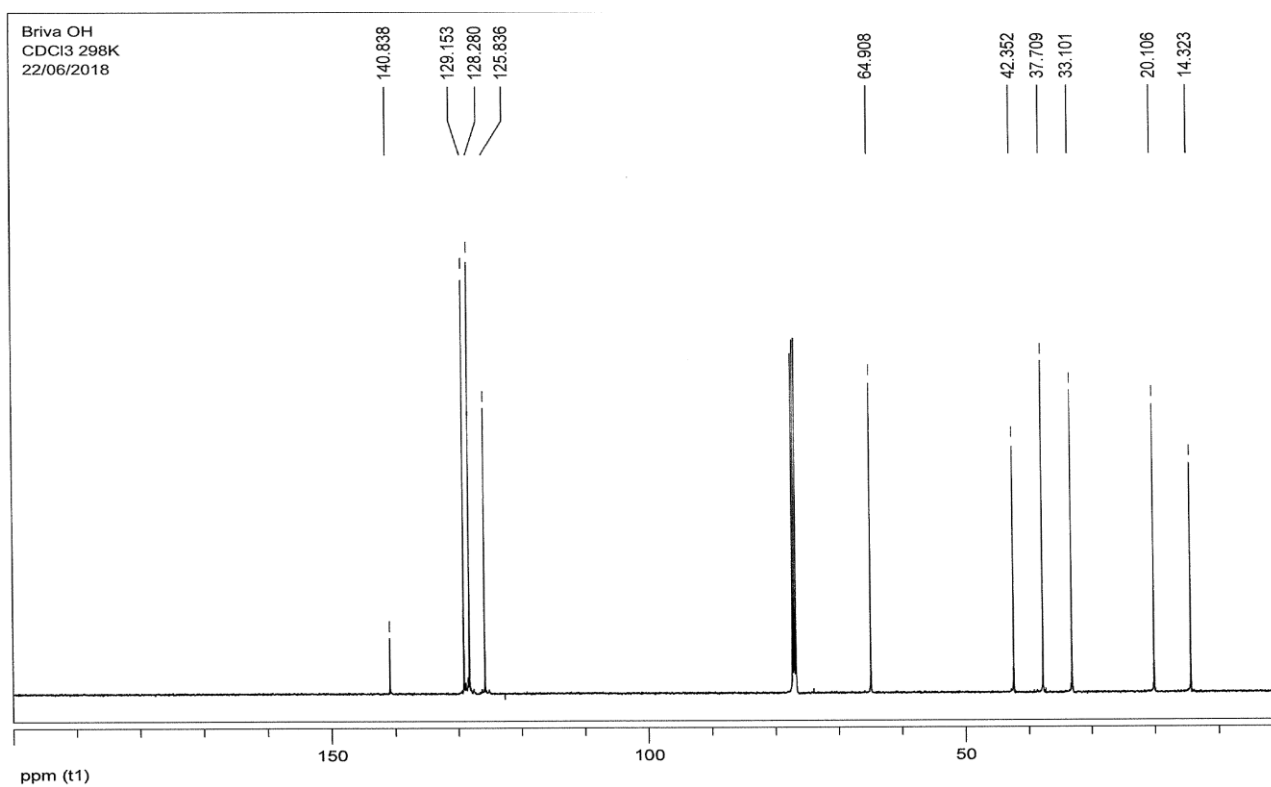
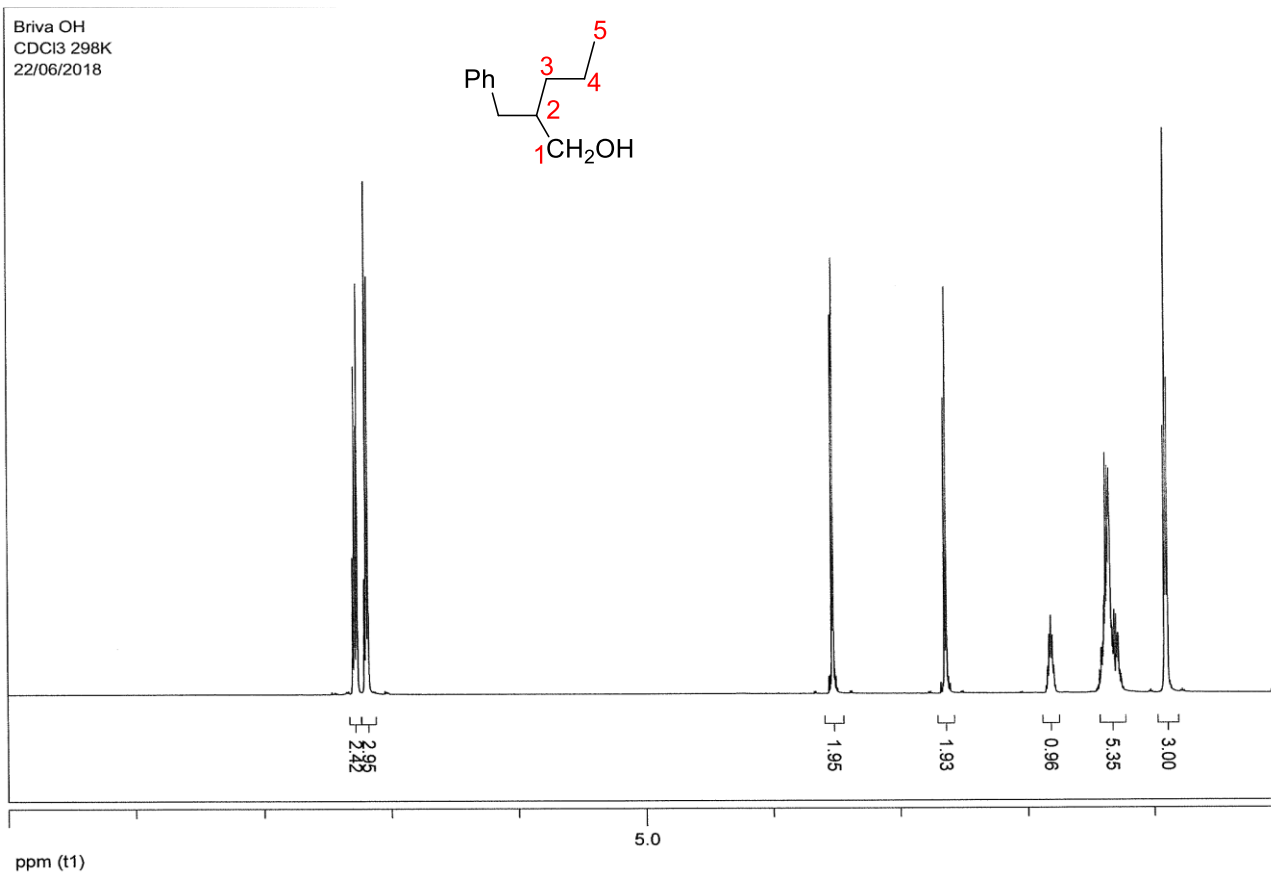
NMR Spectra	Page S-2
IR	Page S-9
MS	Page S-14
HRMS	Page S-19
HPLC analysis	Page S-20
GC analysis	Page S-21

^1H and ^{13}C NMR spectra

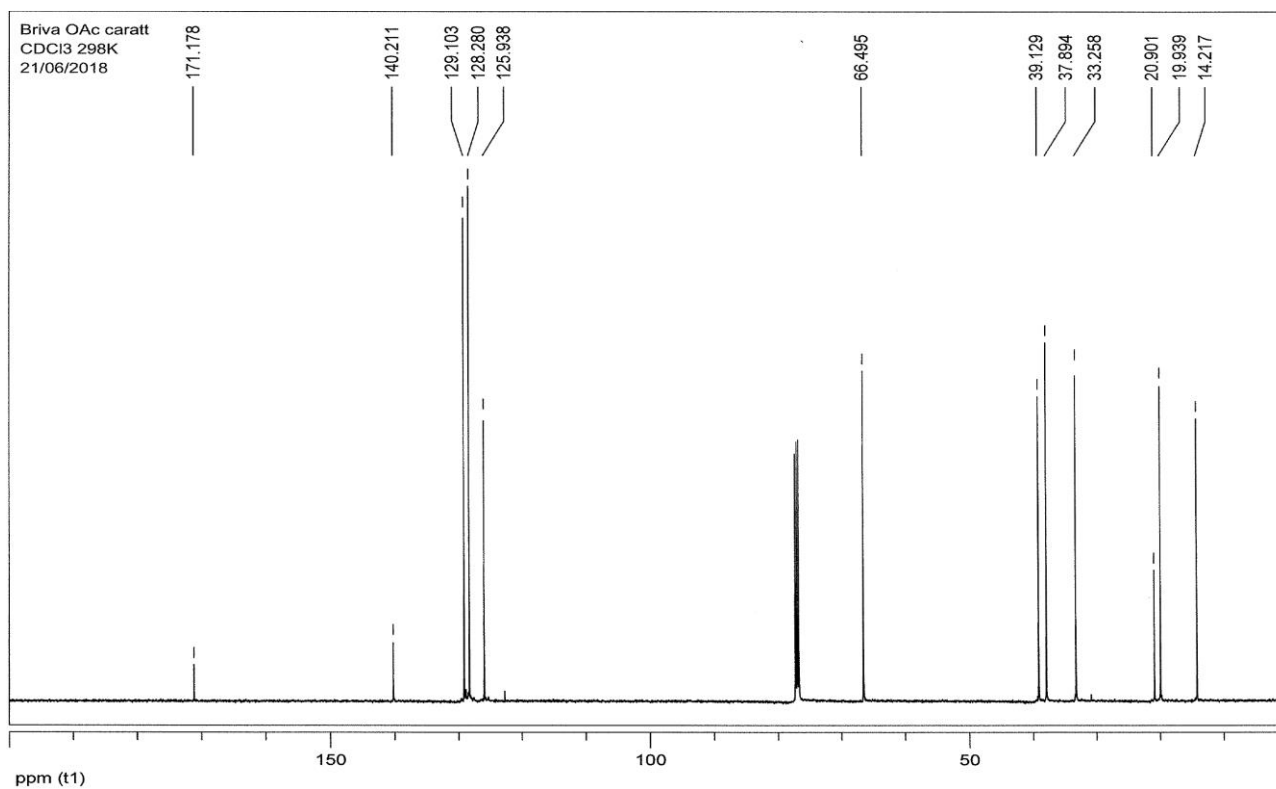
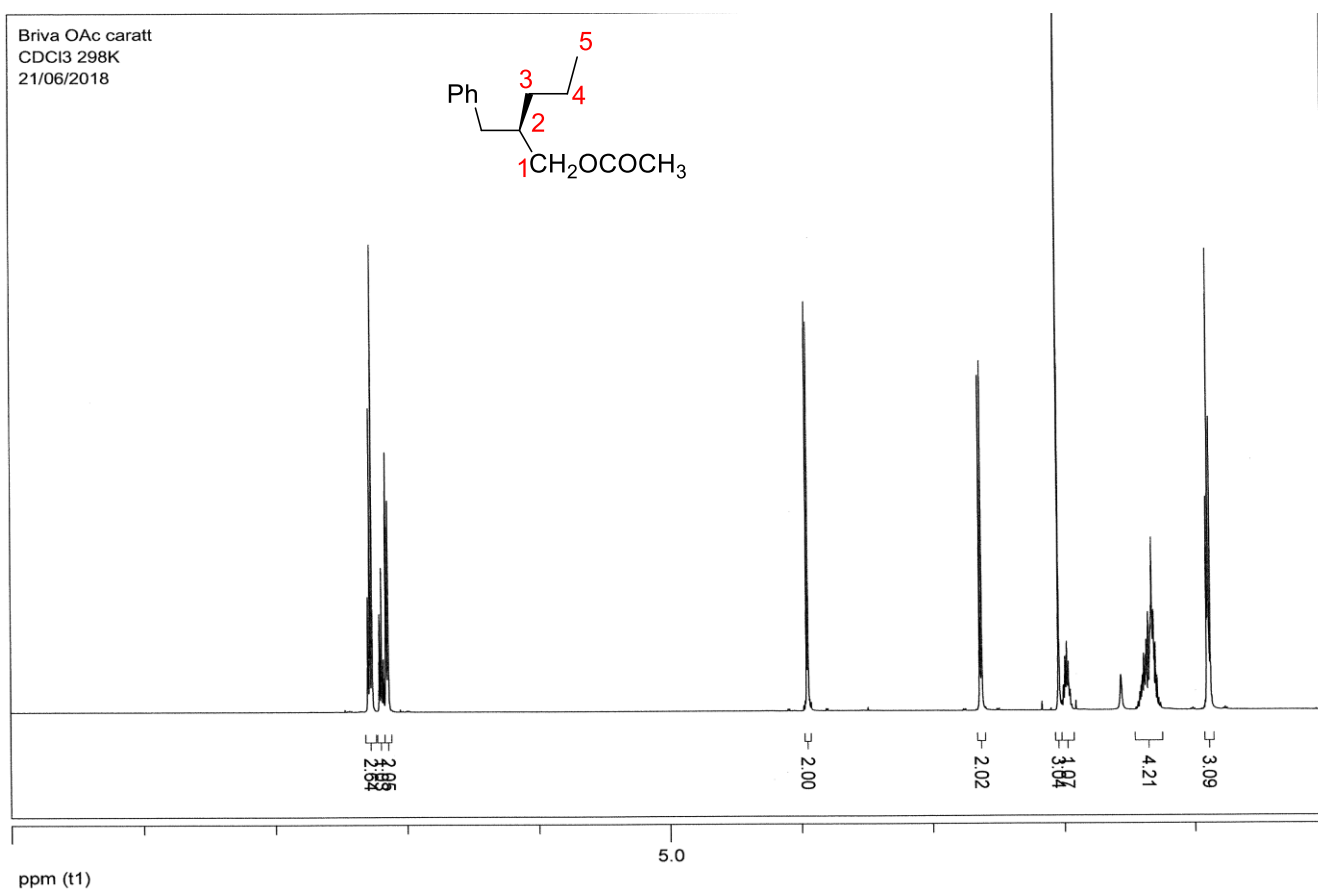
(E)-Ethyl-2-benzylidenepentanoate **11**



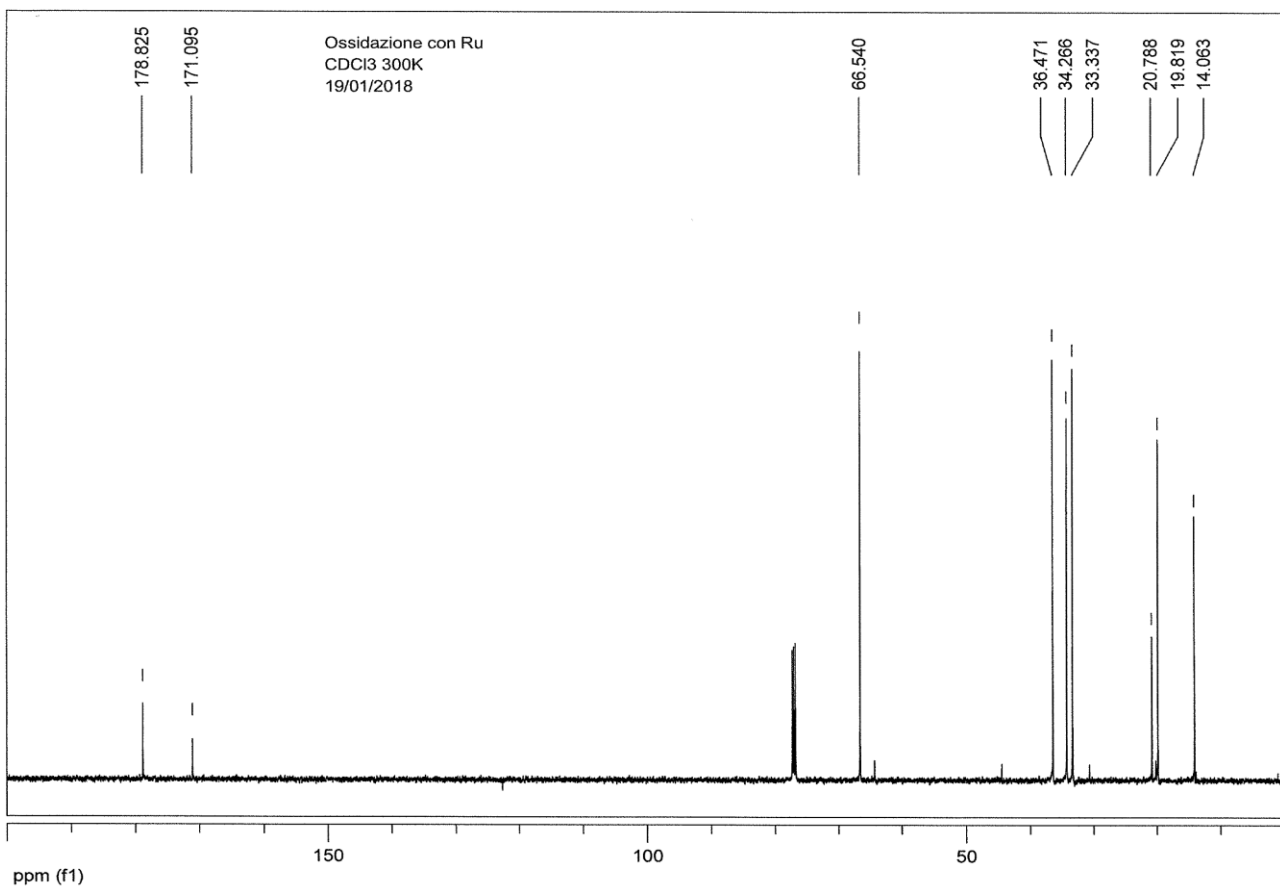
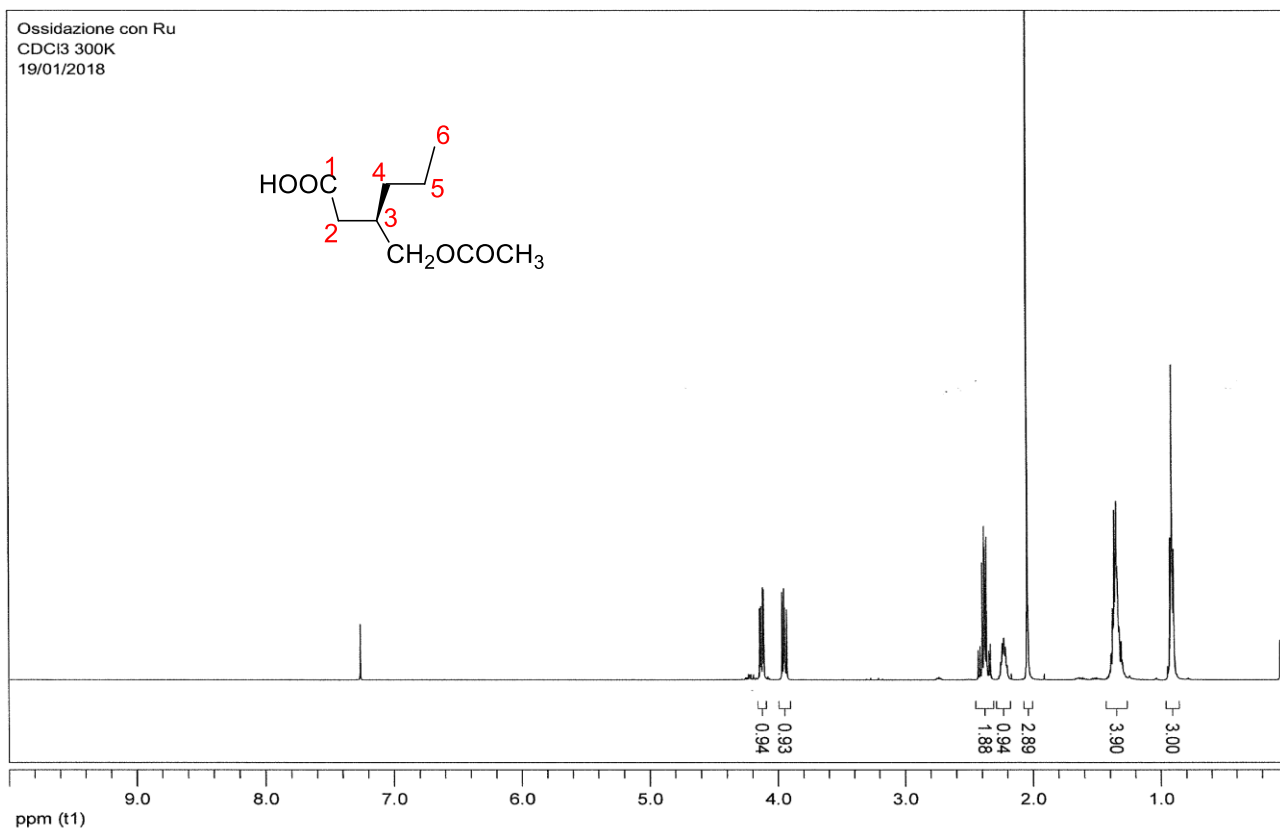
(R,S)-2-benzylpentan-1-ol **8**



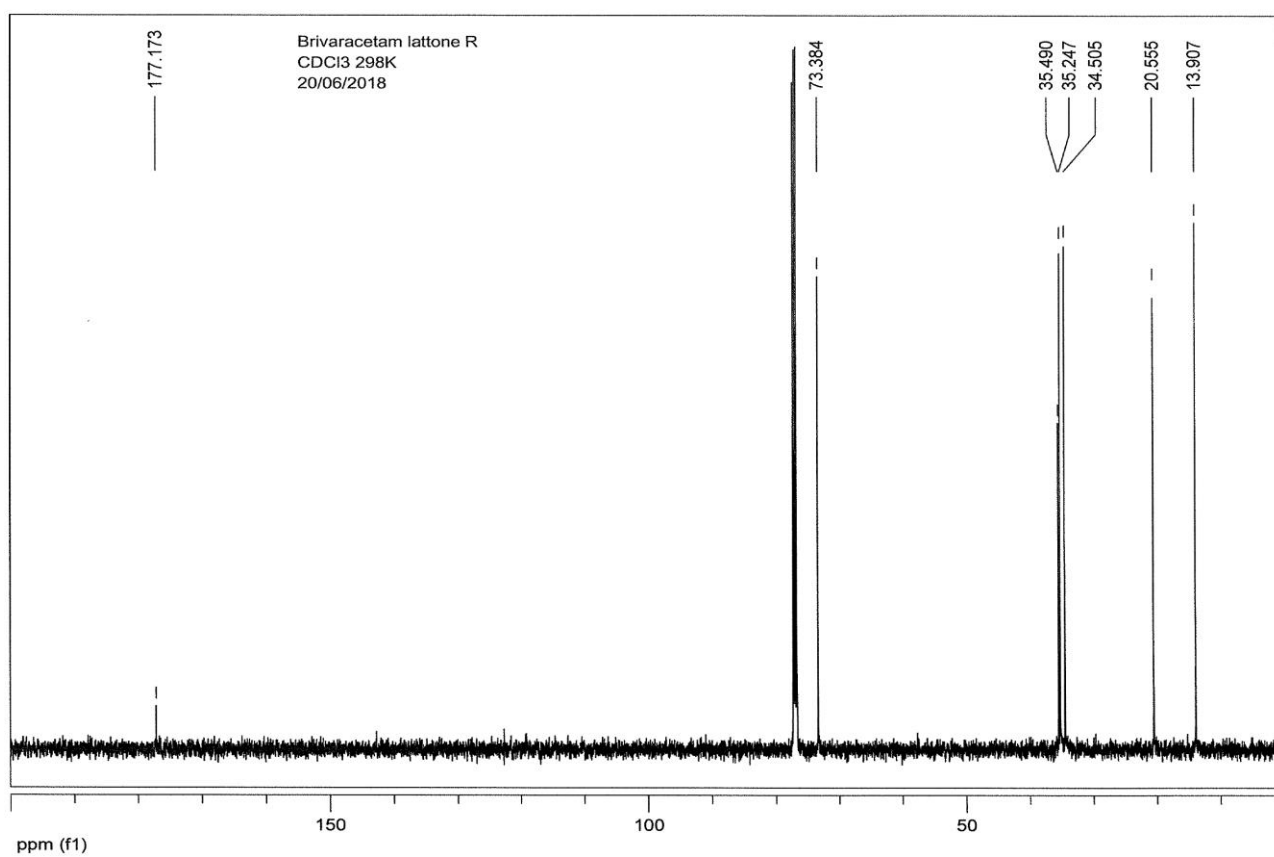
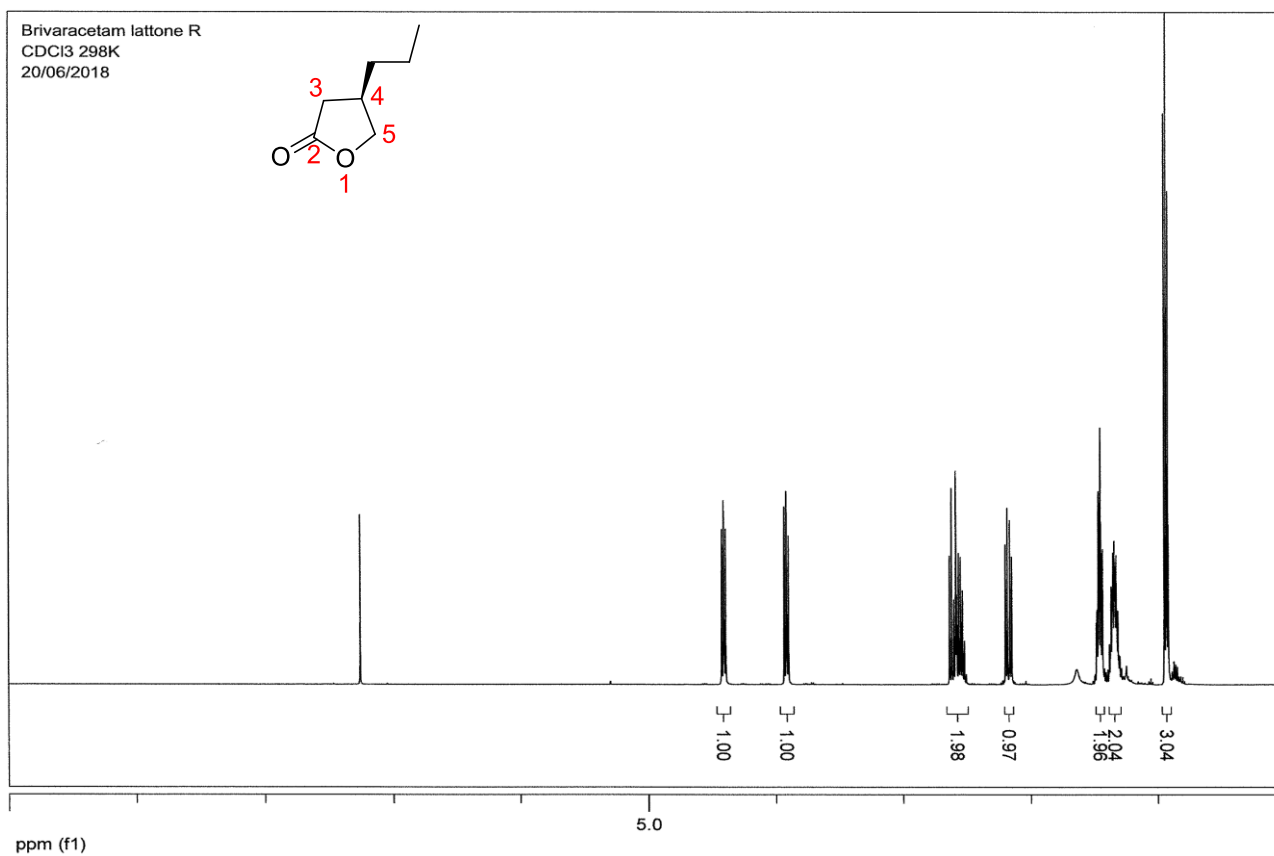
(R)-2-benzylpentan-1-ol, acetate **12**



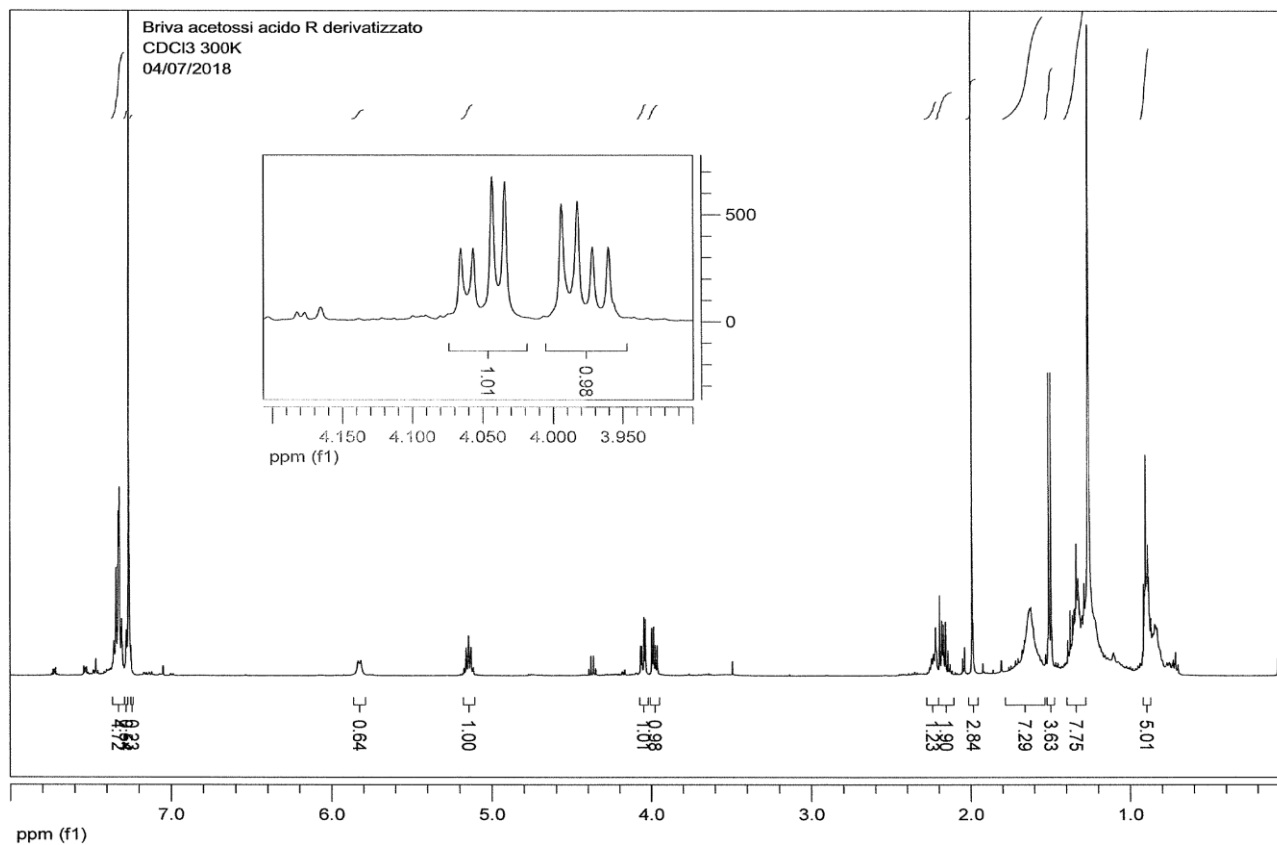
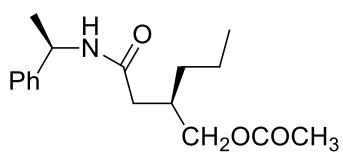
(R)-3-(acetoxymethyl)hexanoic acid **13**



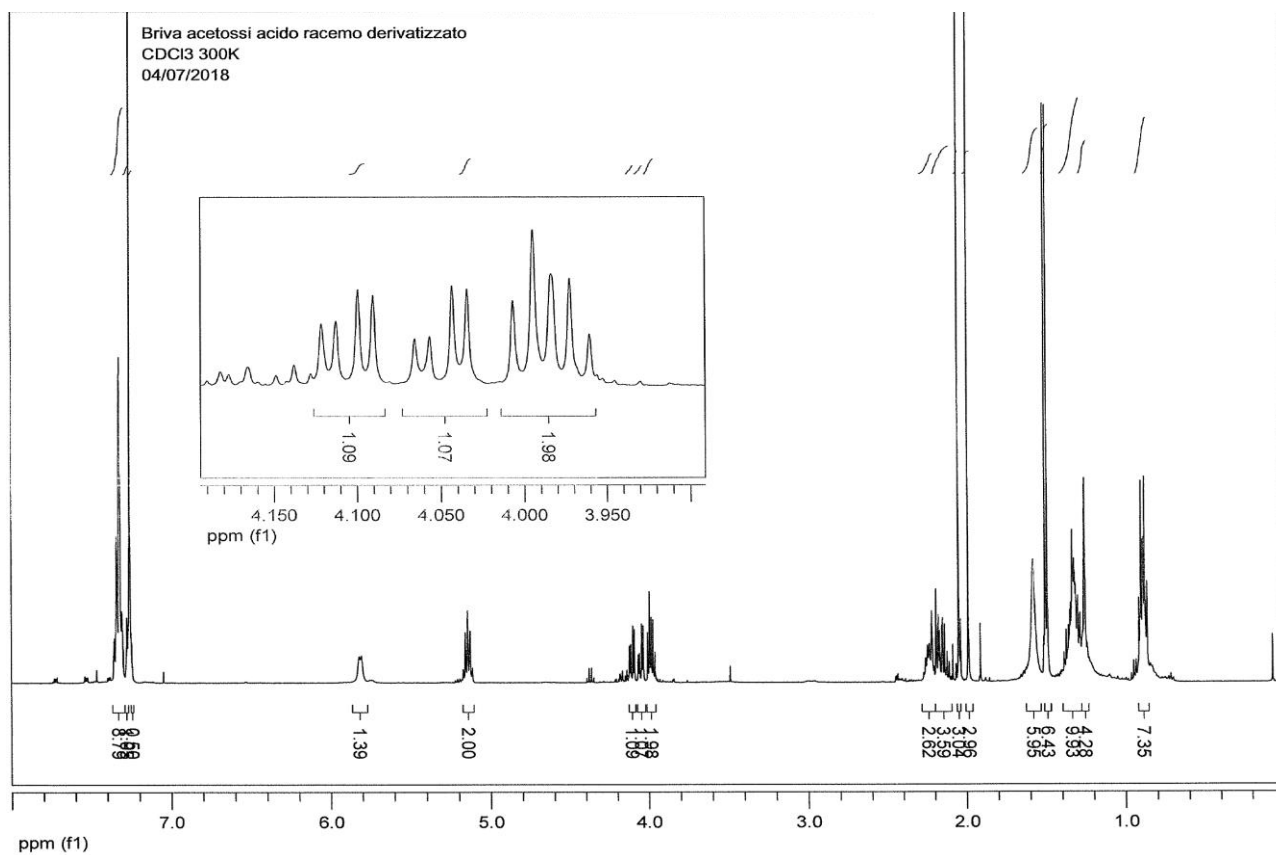
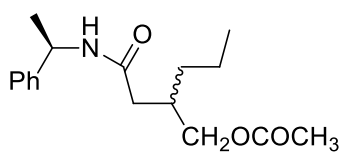
(R)-4-propyldihydrofuran-2(3H)-one **4**



(R)-2-(2-oxo-2-(((*R*)-1-phenylethyl)amino)ethyl)pentyl acetate **15**

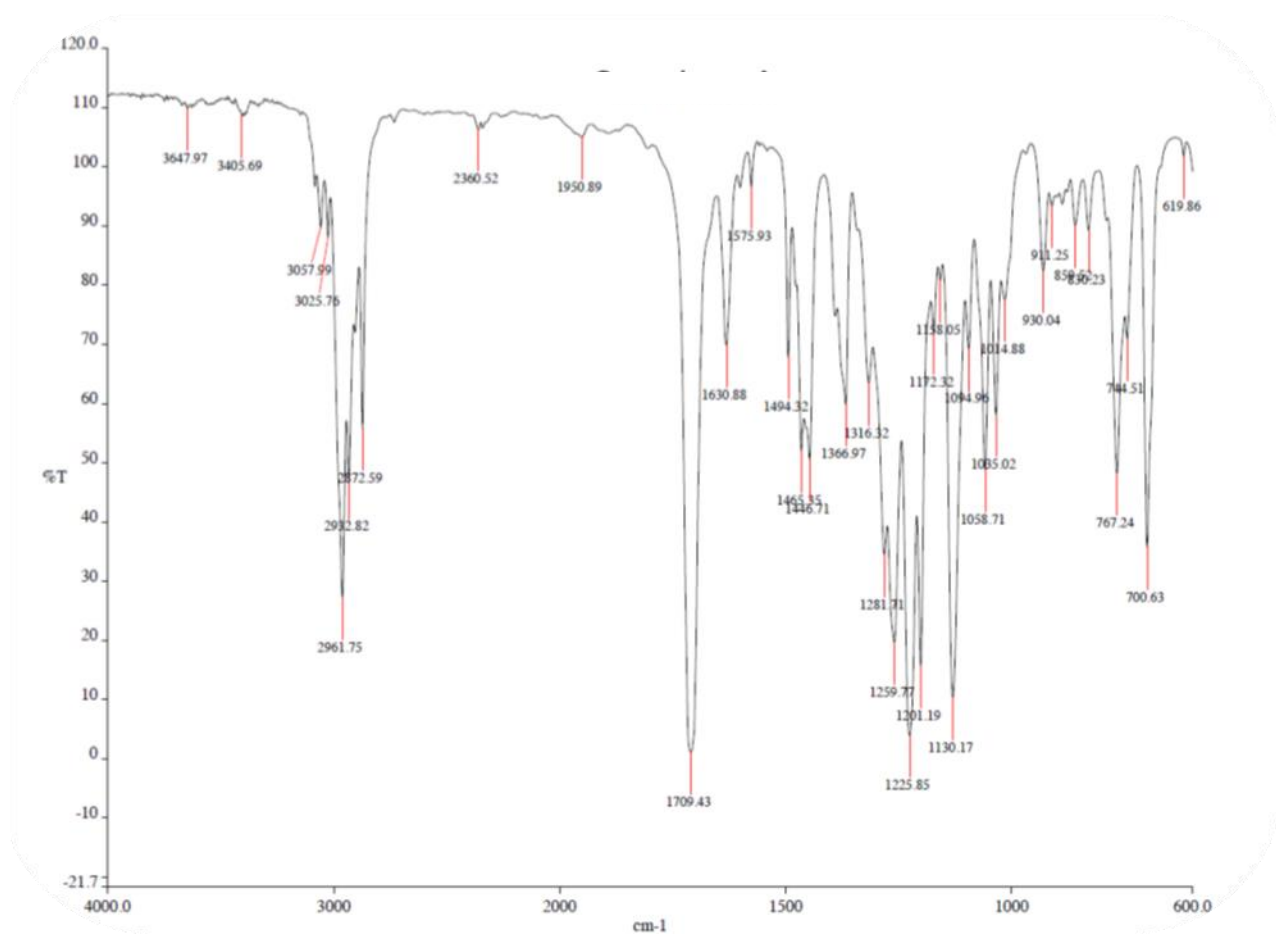


(R,S)-2-(2-oxo-2-(((*R*)-1-phenylethyl)amino)ethyl)pentyl acetate **15**

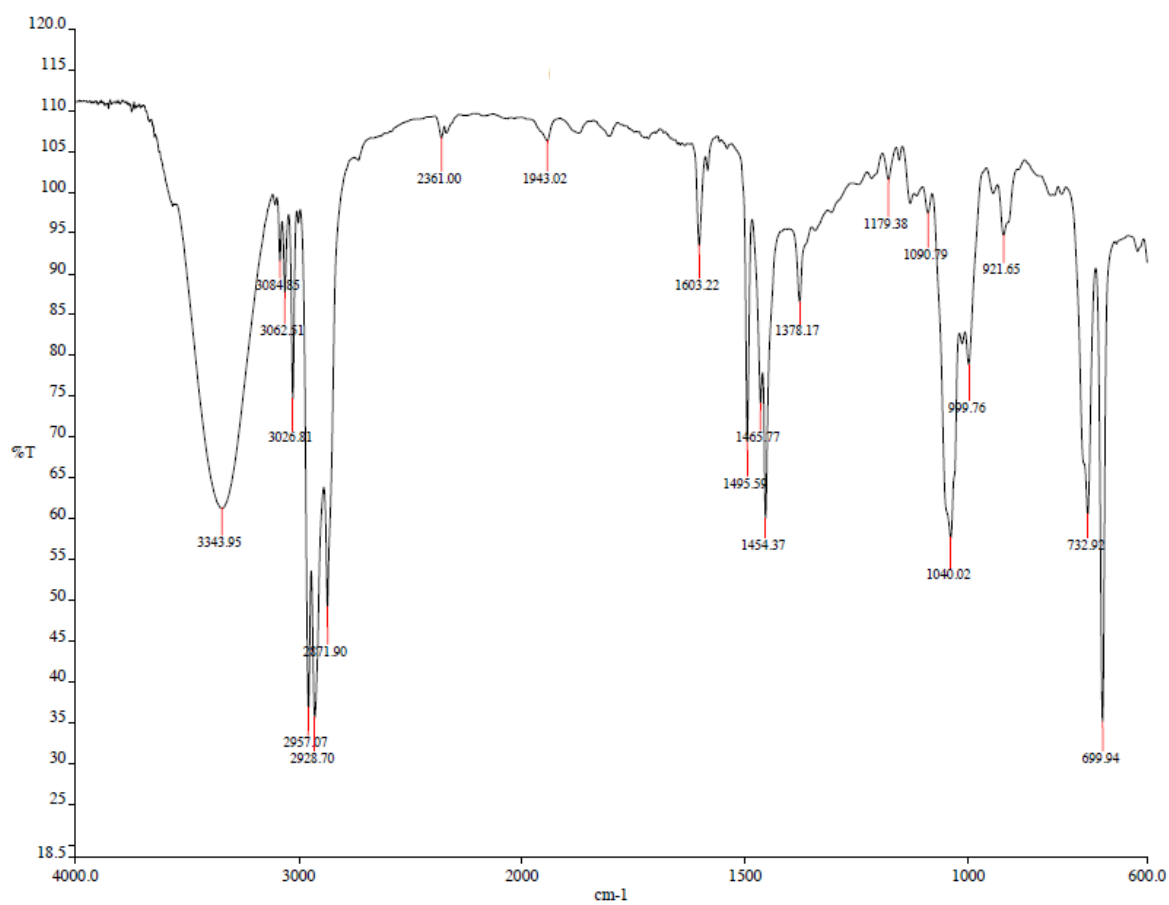


IR spectra

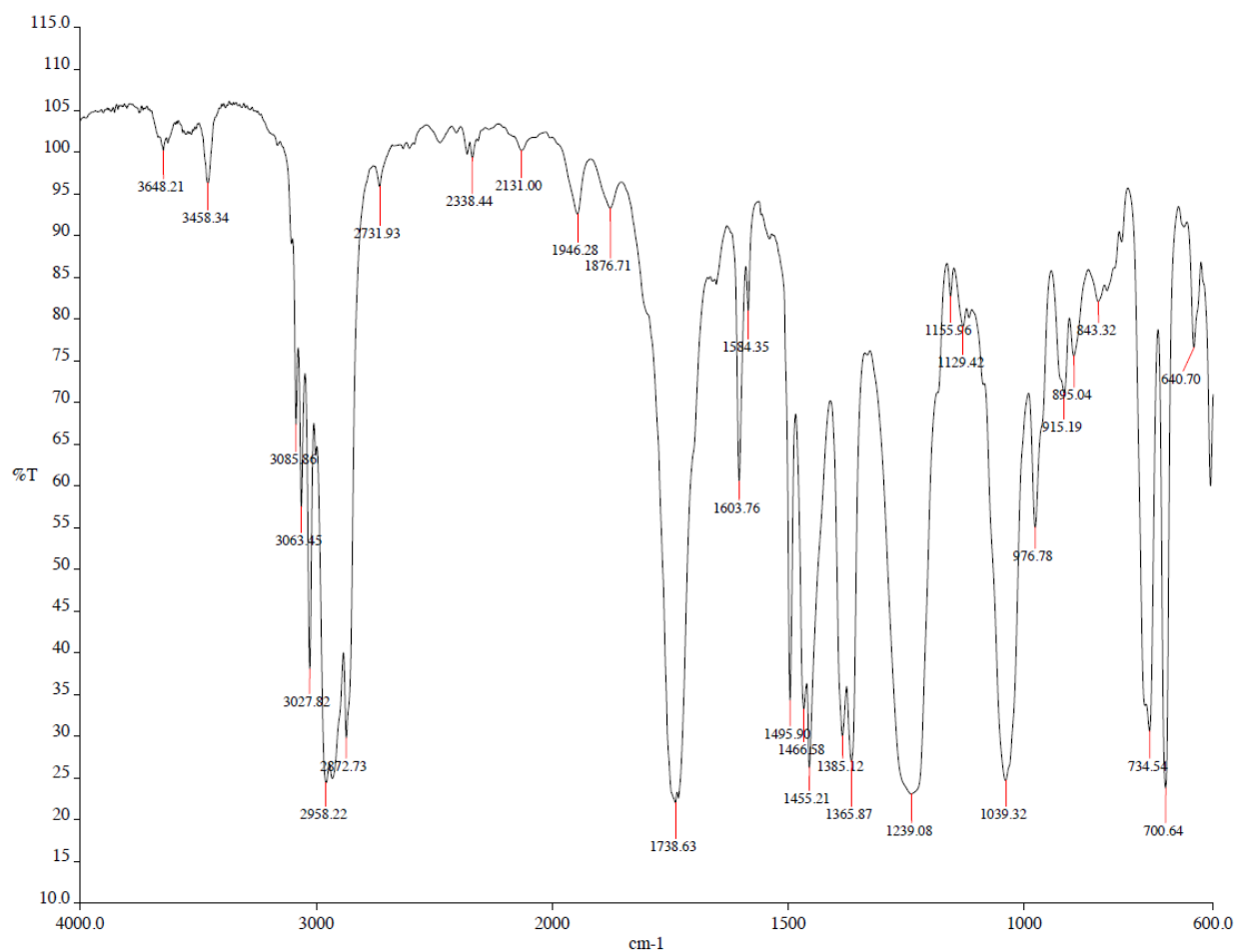
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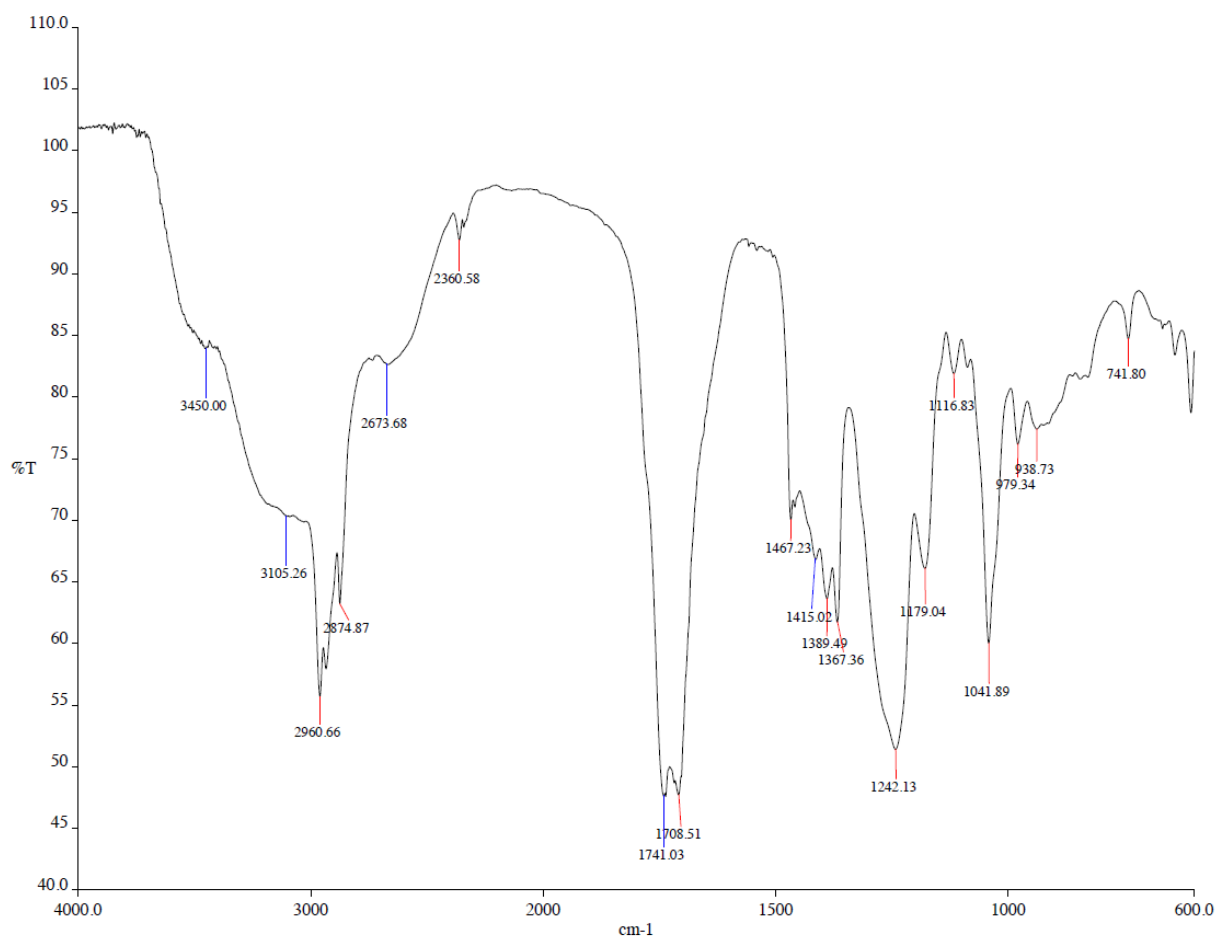
(R,S)-2-benzylpentan-1-ol **8**



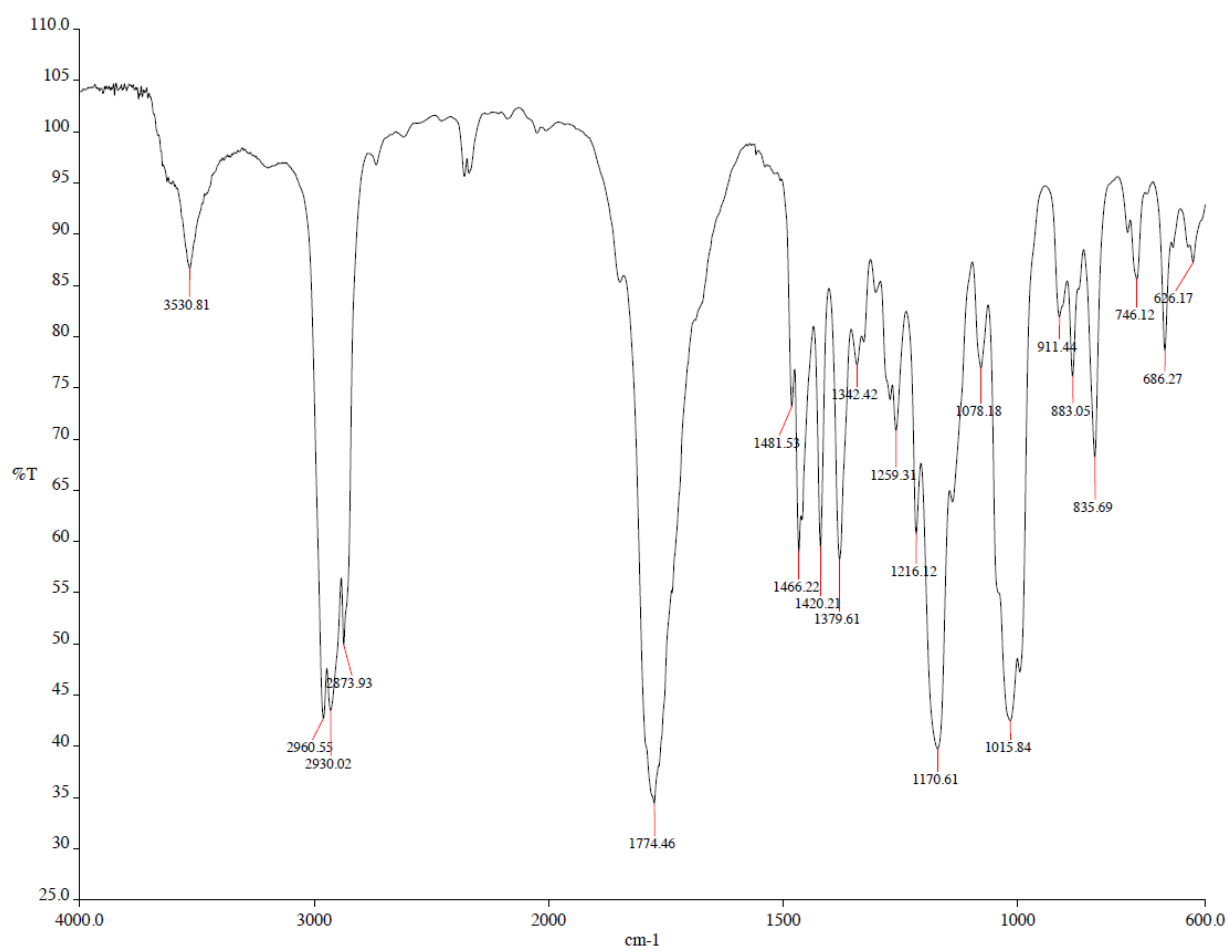
(R)-2-benzylpentan-1-ol, acetate **12**



(R)-3-(acetoxymethyl)hexanoic acid **13**

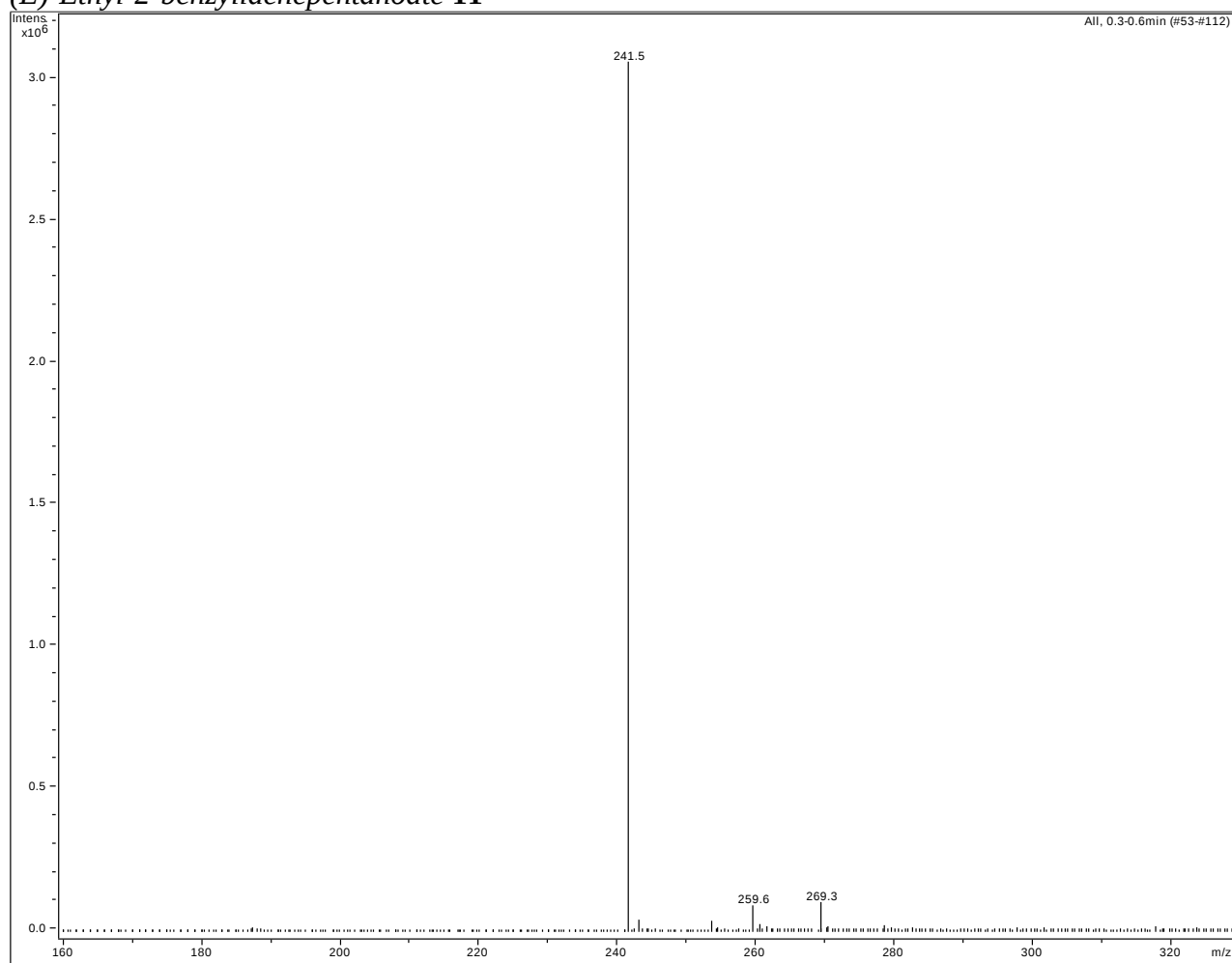


(R)-4-propyldihydrofuran-2(3*H*)-one **4**

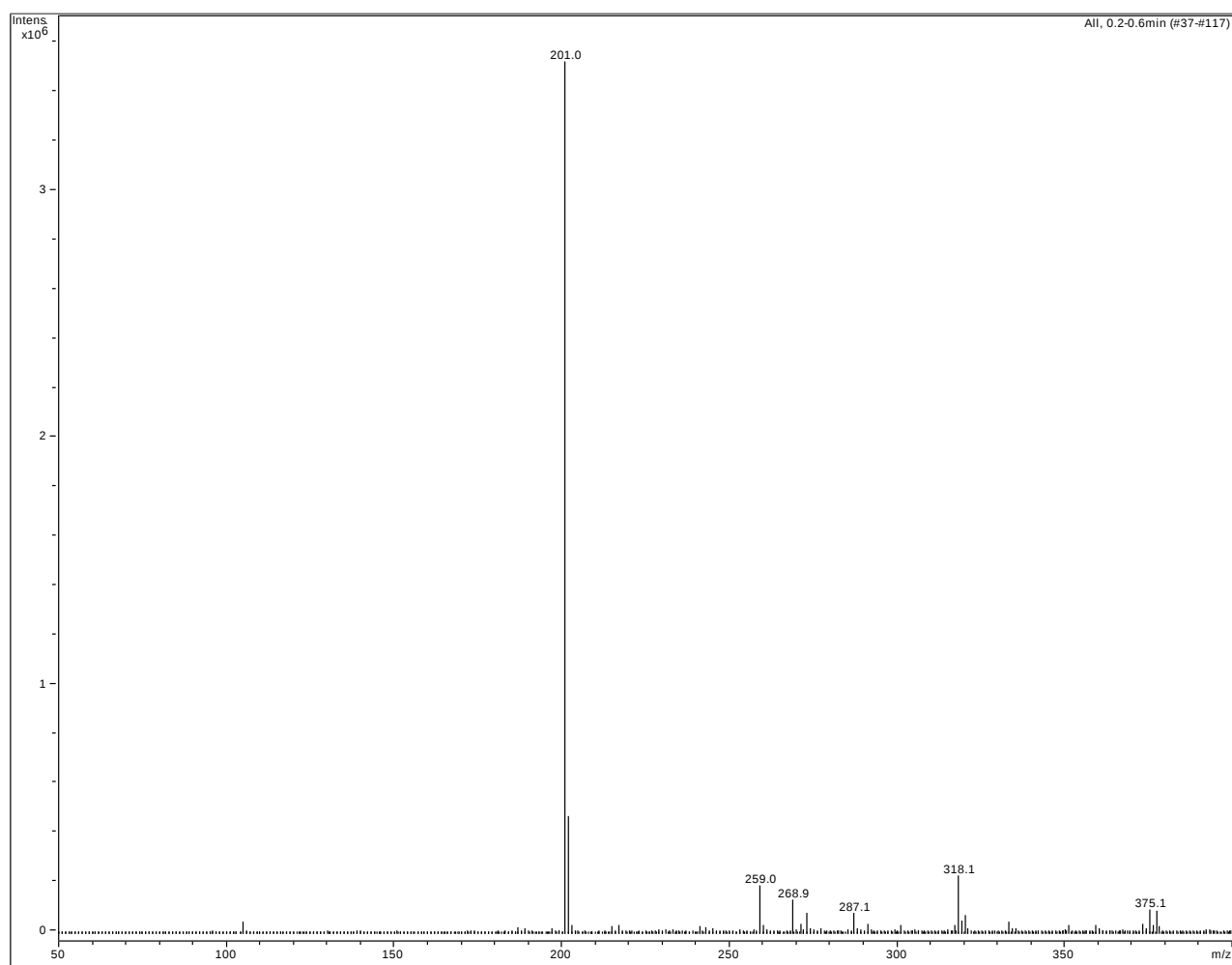


MS spectra

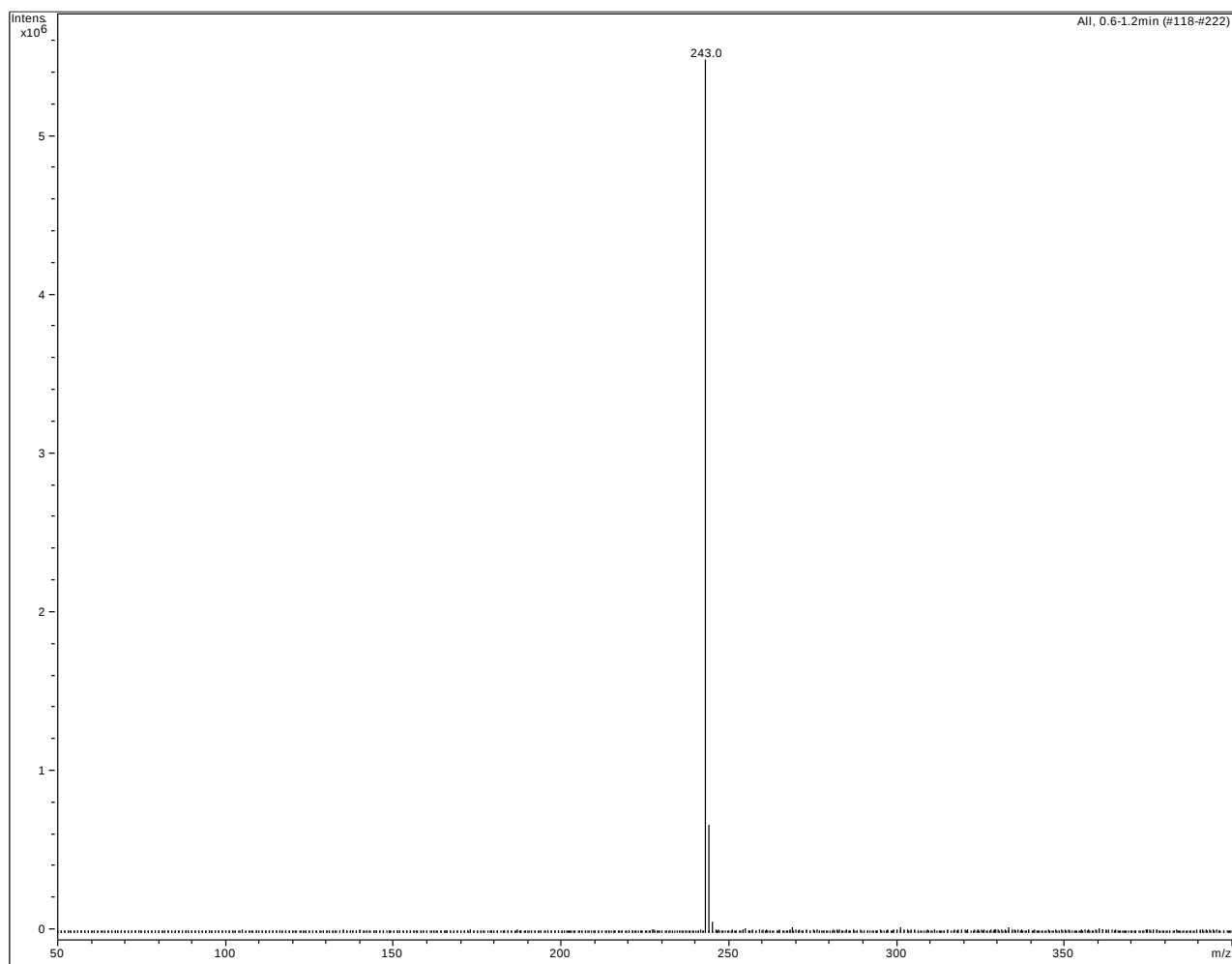
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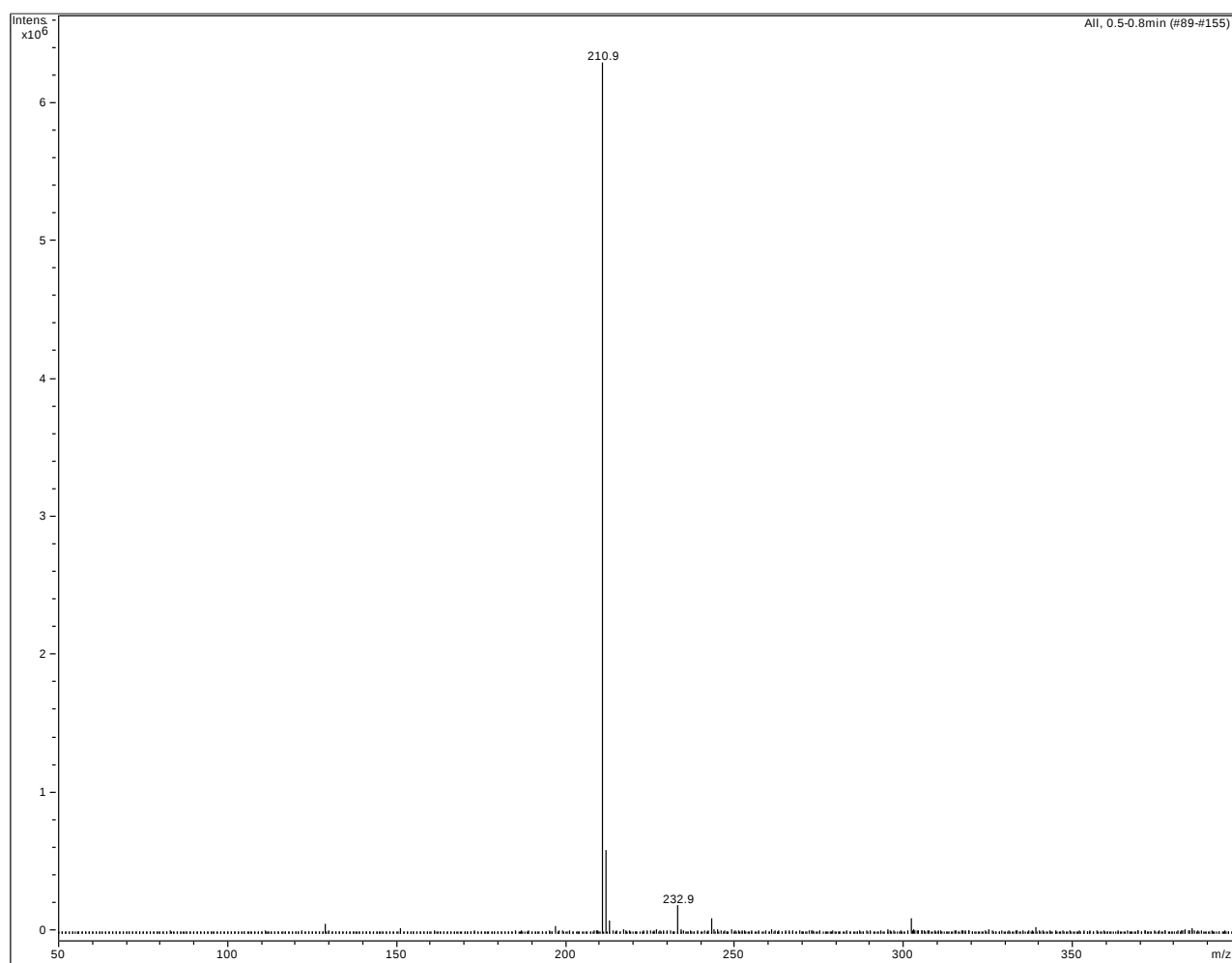
(R,S)-2-benzylpentan-1-ol **8**



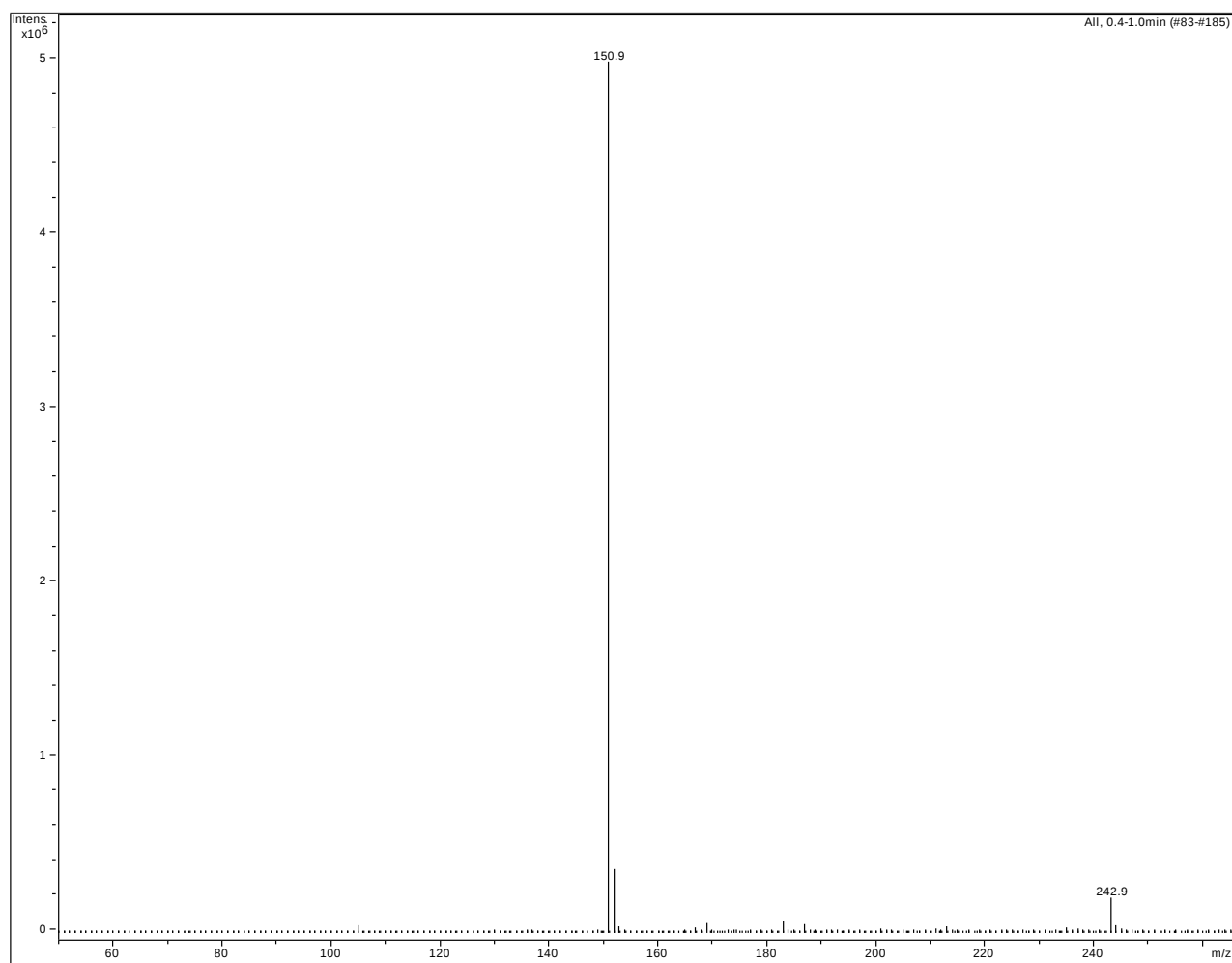
(R)-2-benzylpentan-1-ol, acetate **12**



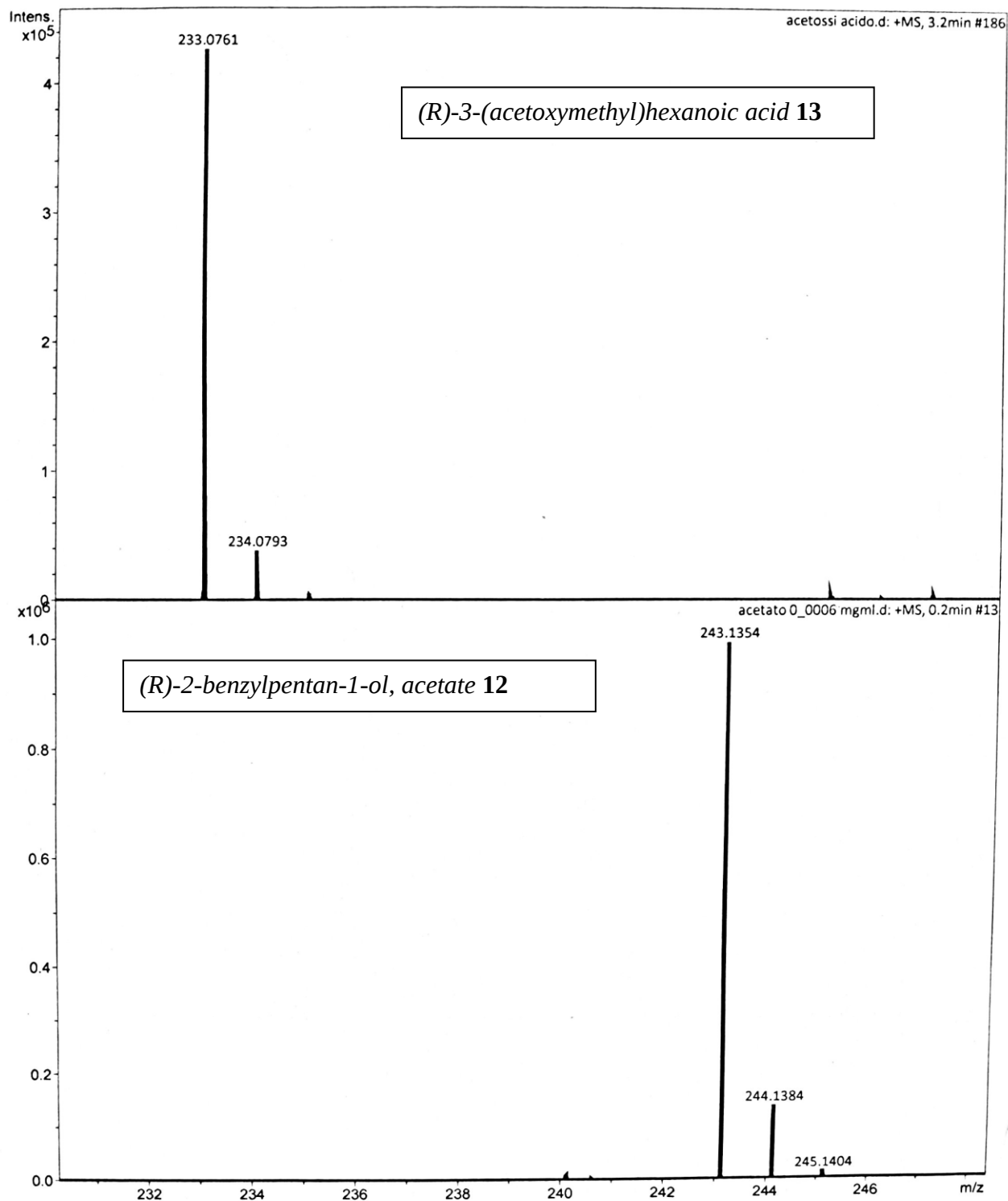
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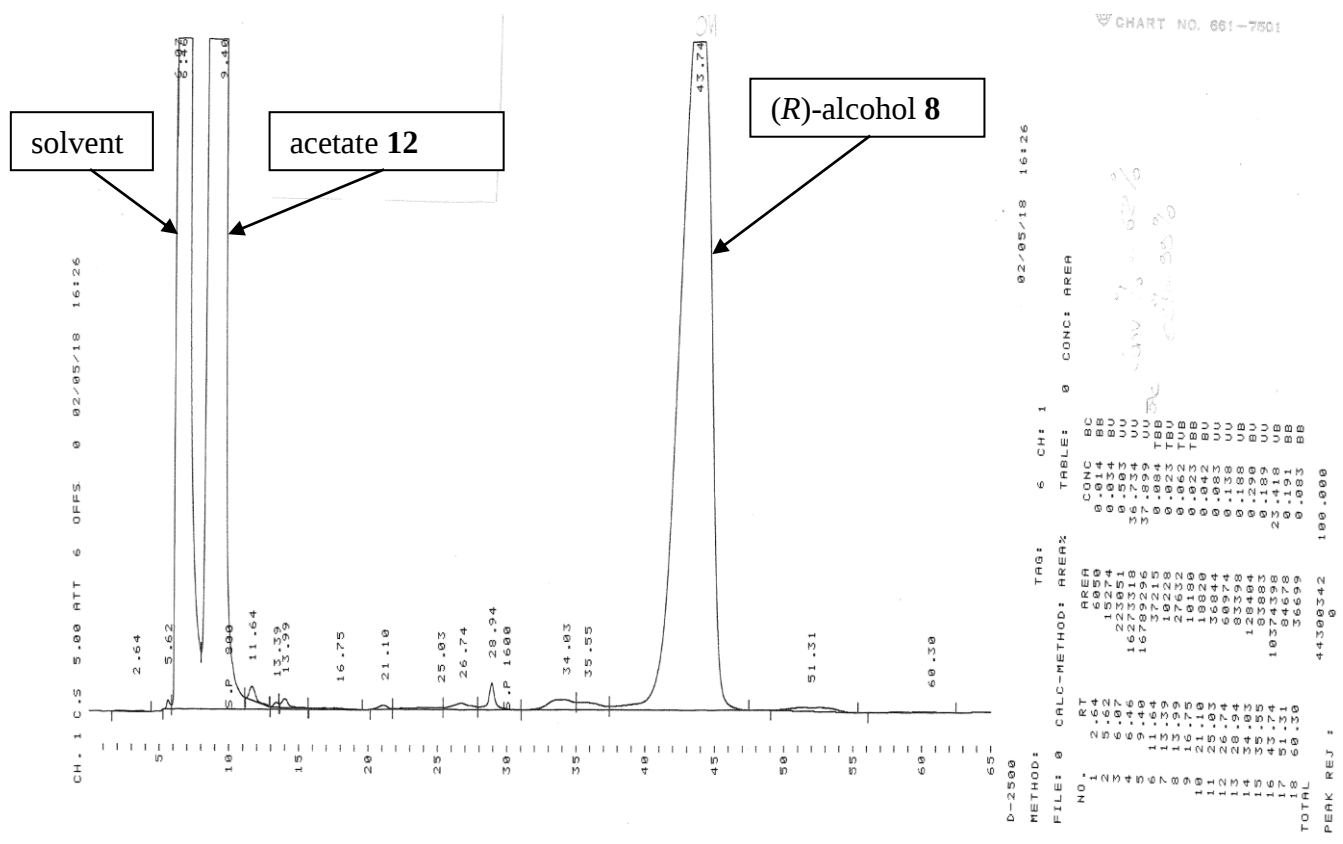


Window Display Report

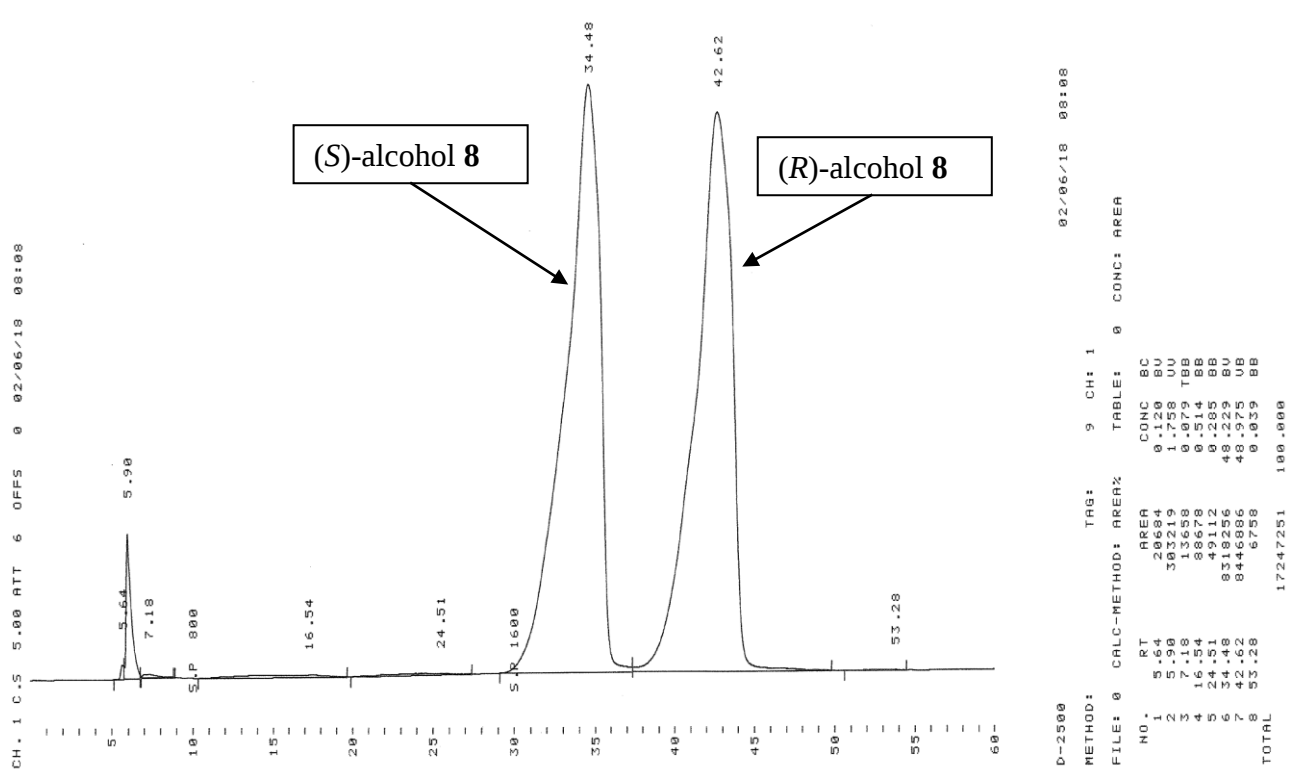


Chromatograms

HPLC analysis of crude obtained by PFL-catalyzed irreversible transesterification

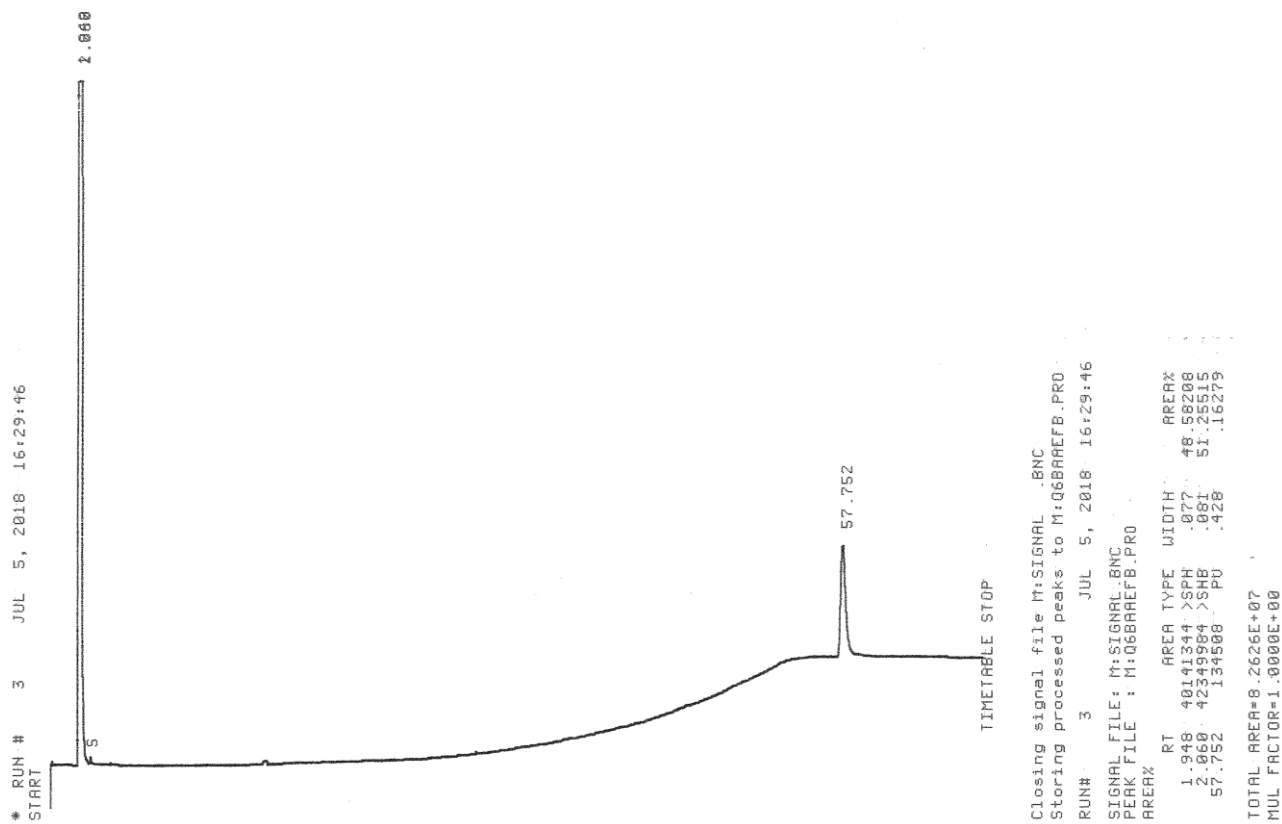


HPLC analysis of (R,S)-alcohol 8



GC analysis

GC chromatogram of (R)-4-propyldihydrofuran-2(3H)-one 4



GC chromatogram of (R,S)-4-propyldihydrofuran-2(3H)-one 4

