

# Support information

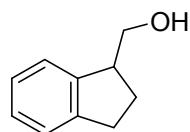
## Exploiting sequential lipase-catalyzed reactions to achieve enantiomerically pure chiral primary alcohols

Rodrigo S. Martins, Anees Ahmad, Luiz F. Silva Jr. and Leandro H. Andrade\*

Universidade de São Paulo, Instituto de Química. Av. Prof. Lineu Prestes 748,  
SP 05508-900, São Paulo, Brazil.

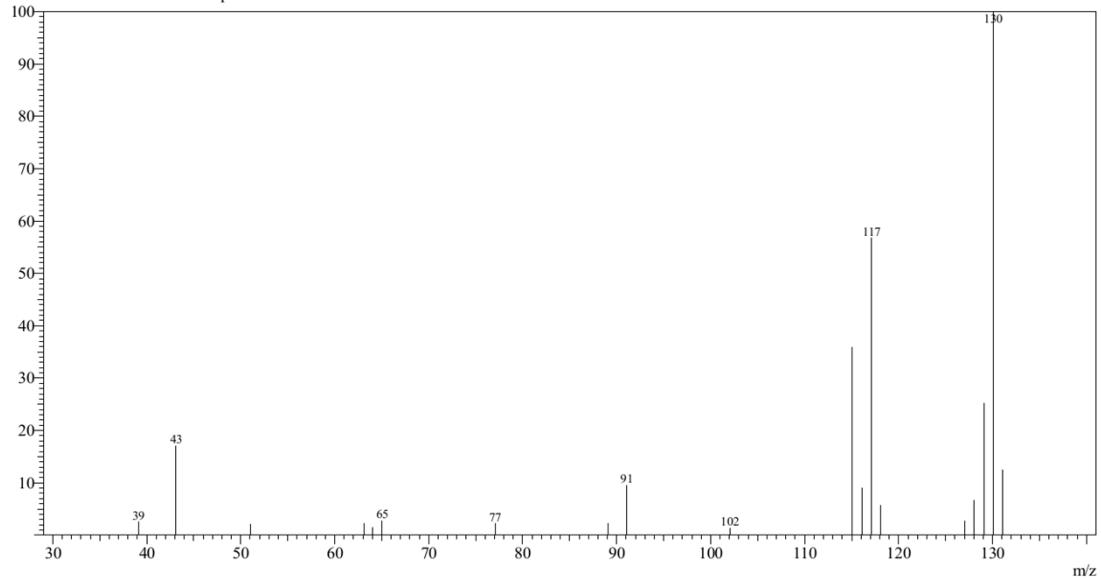
\*Corresponding author = [leandroh@iq.usp.br](mailto:leandroh@iq.usp.br)

(2,3-dihydro-1*H*-inden-1-yl)methanol (2a)

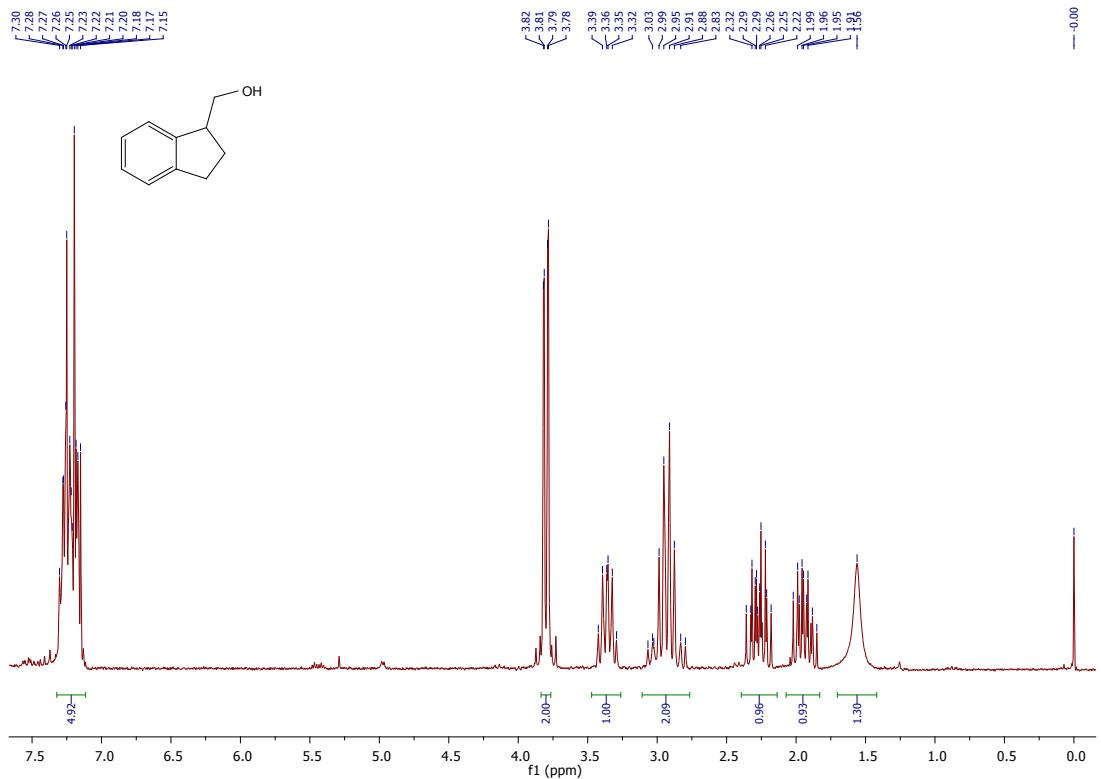


MS spectra from (2,3-dihydro-1*H*-inden-1-yl)methanol (2a)

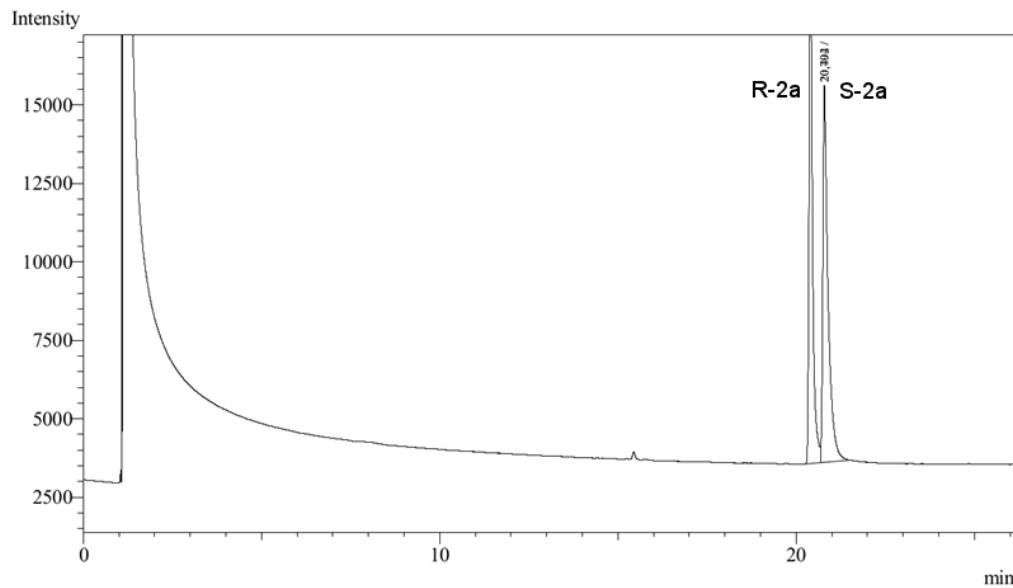
Peak#:2 R.Time:10.237(Scan#:1448)  
 MassPeaks:19  
 RawMode:Averaged 10.230-10.240(1447-1449)  
 BG Mode:Calc. from Peak Group 1 - Event 1



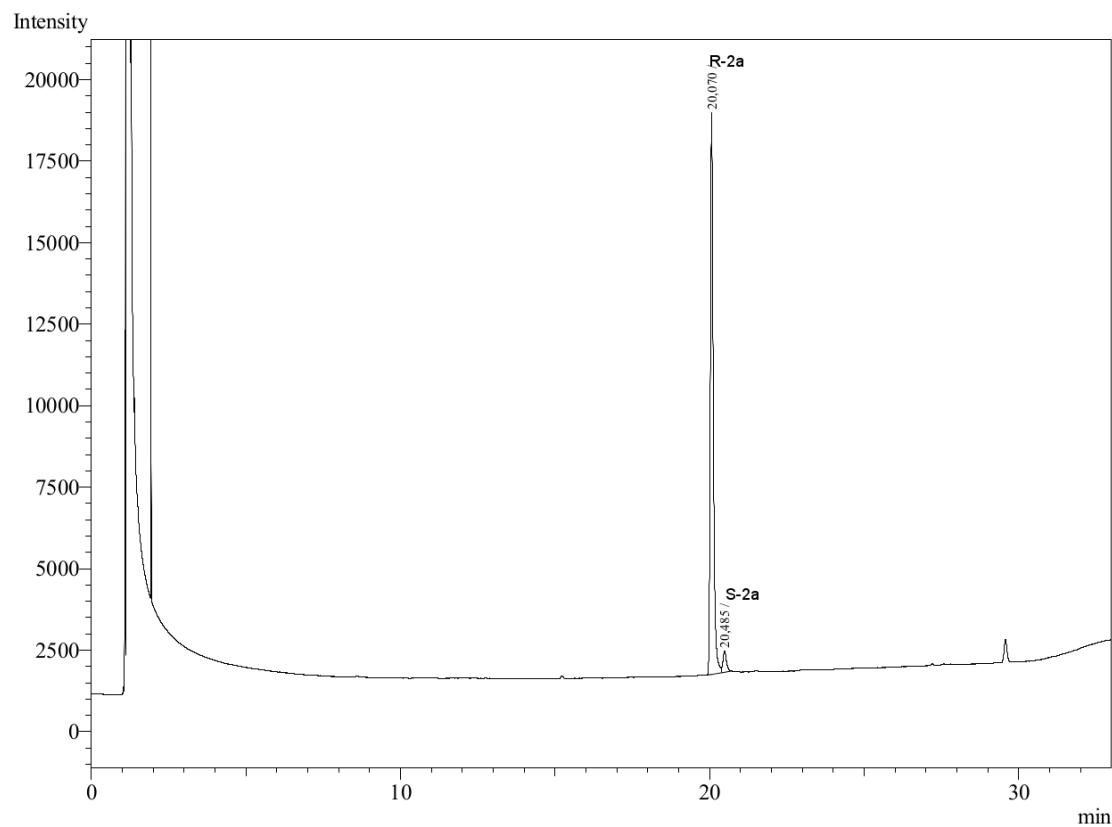
<sup>1</sup>H NMR from (2,3-dihydro-1*H*-inden-1-yl)methanol (2a)



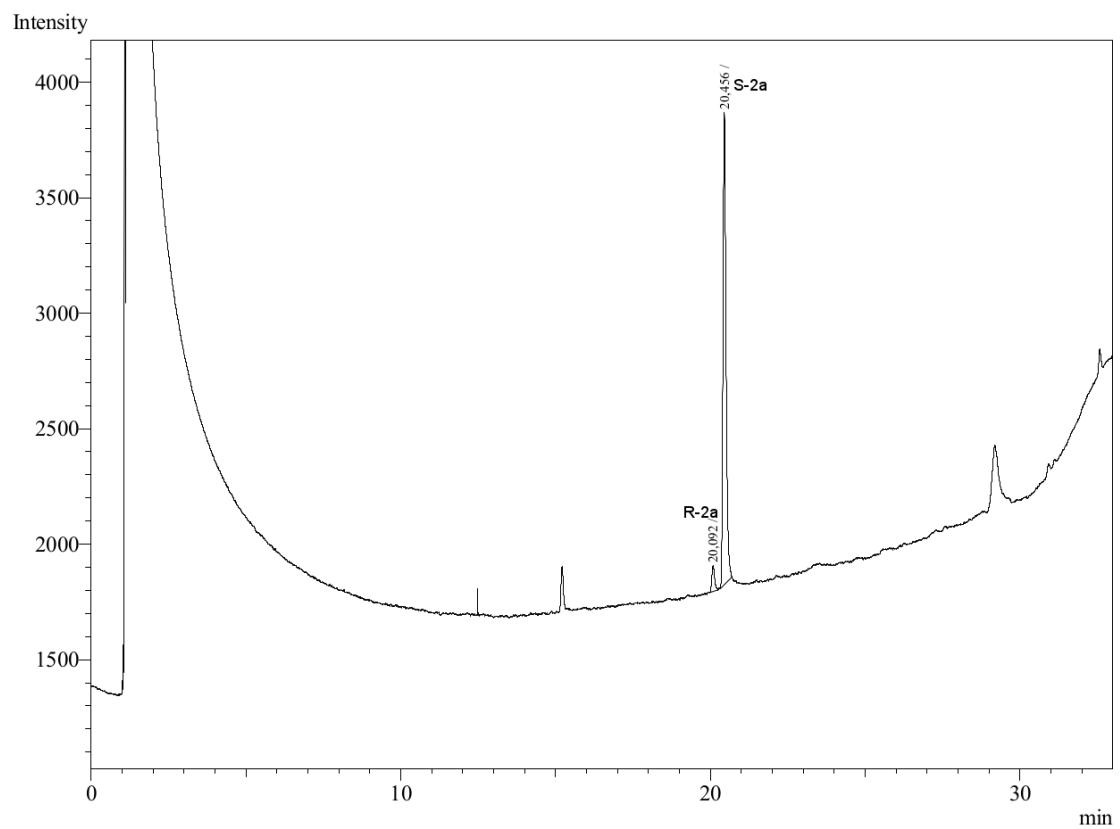
Injection of (*RS*)-(2,3-dihydro-1*H*-inden-1-yl)methanol (2a) on CG-FID equipped with  $\alpha$ -dex 120 chiral column.



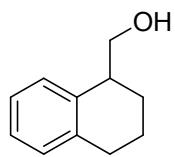
Injection of (+)-(R)-(2,3-dihydro-1*H*-inden-1-yl)methanol (2a) on CG-FID equipped with  $\alpha$ -dex 120 chiral column.



Injection of (-)-(S)-(2,3-dihydro-1*H*-inden-1-yl)methanol (2a) on CG-FID equipped with  $\alpha$ -dex 120 chiral column.

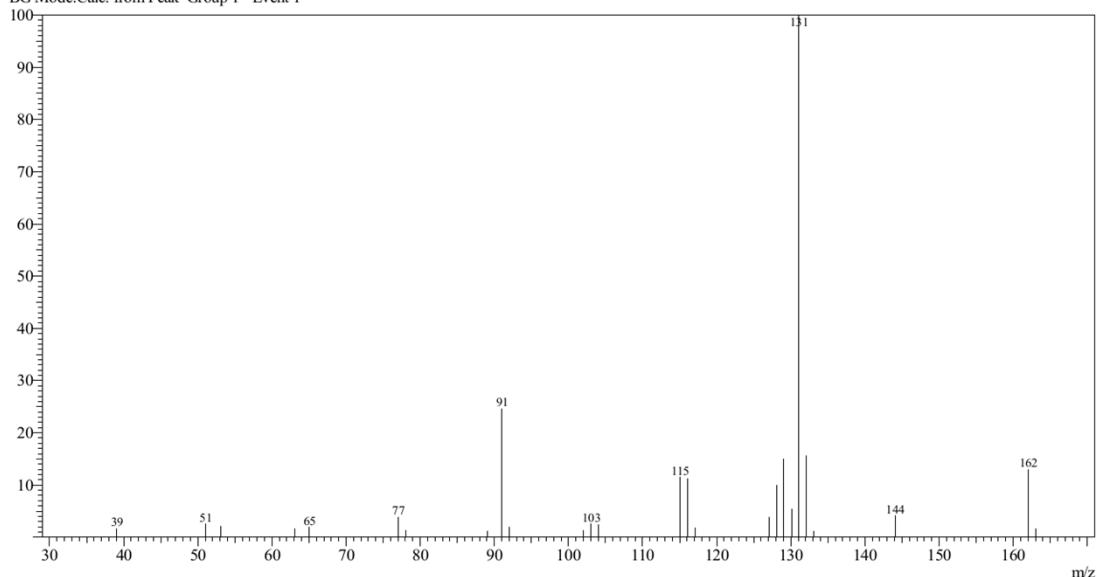


(1,2,3,4-tetrahydronaftalen-1-yl)methanol (2b)

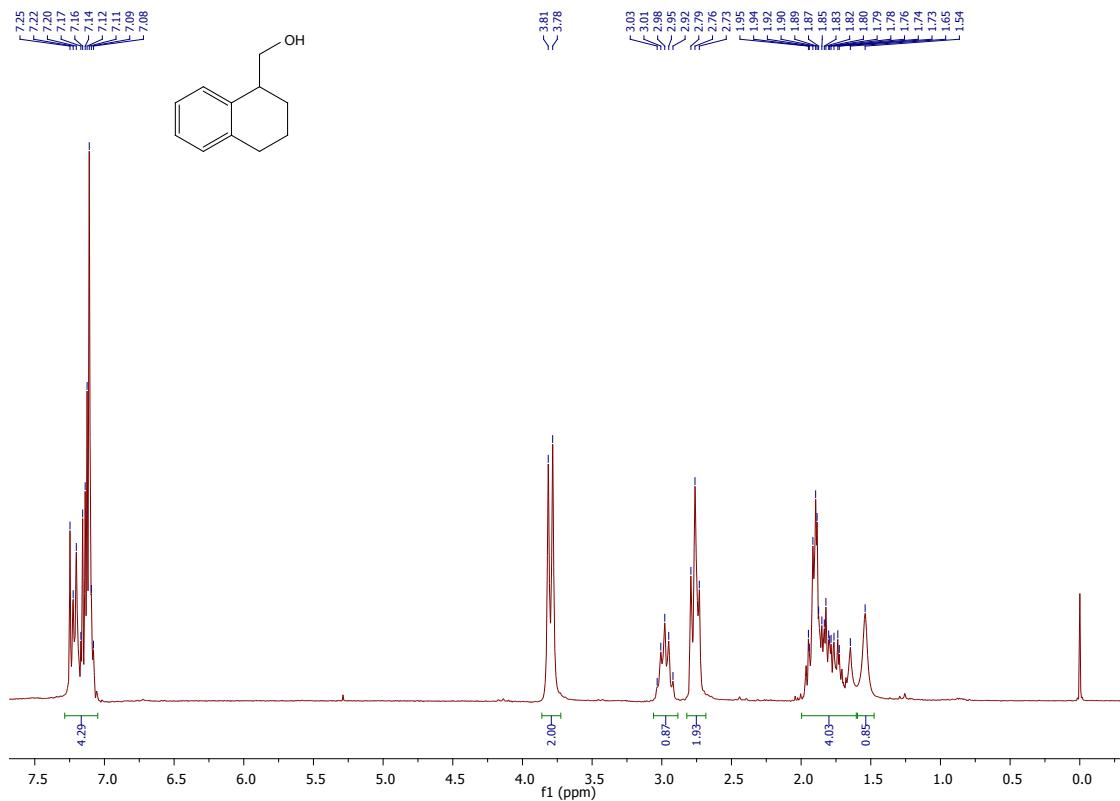


MS spectra from (1,2,3,4-tetrahydronaftalen-1-yl)methanol (2b)

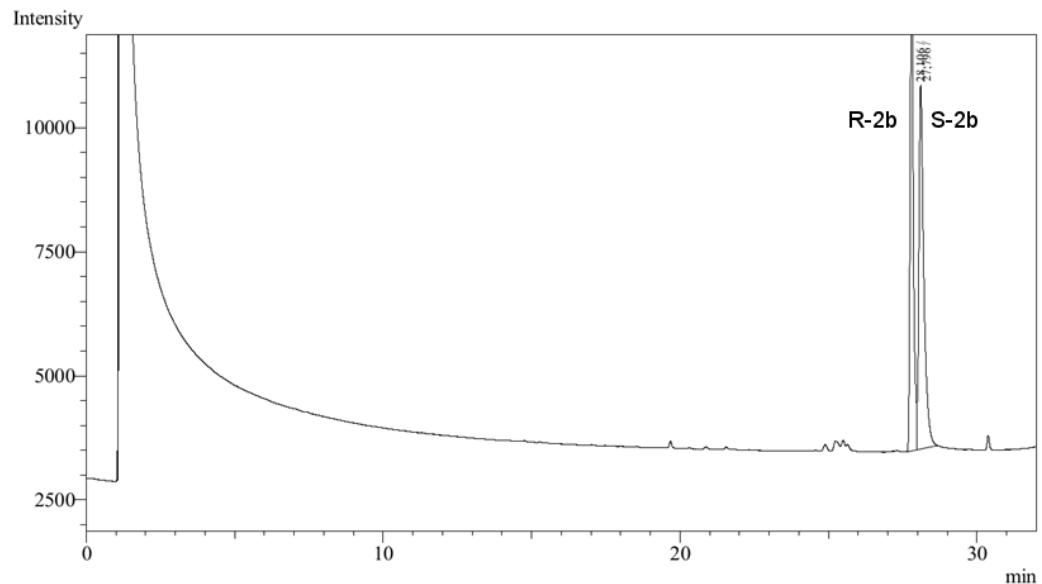
Peak#:1 R.Time:10.366(Scan#:1474)  
MassPeaks:26  
RawMode:Averaged 10.360-10.370(1473-1475)  
BG Mode:Calc. from Peak Group 1 - Event 1



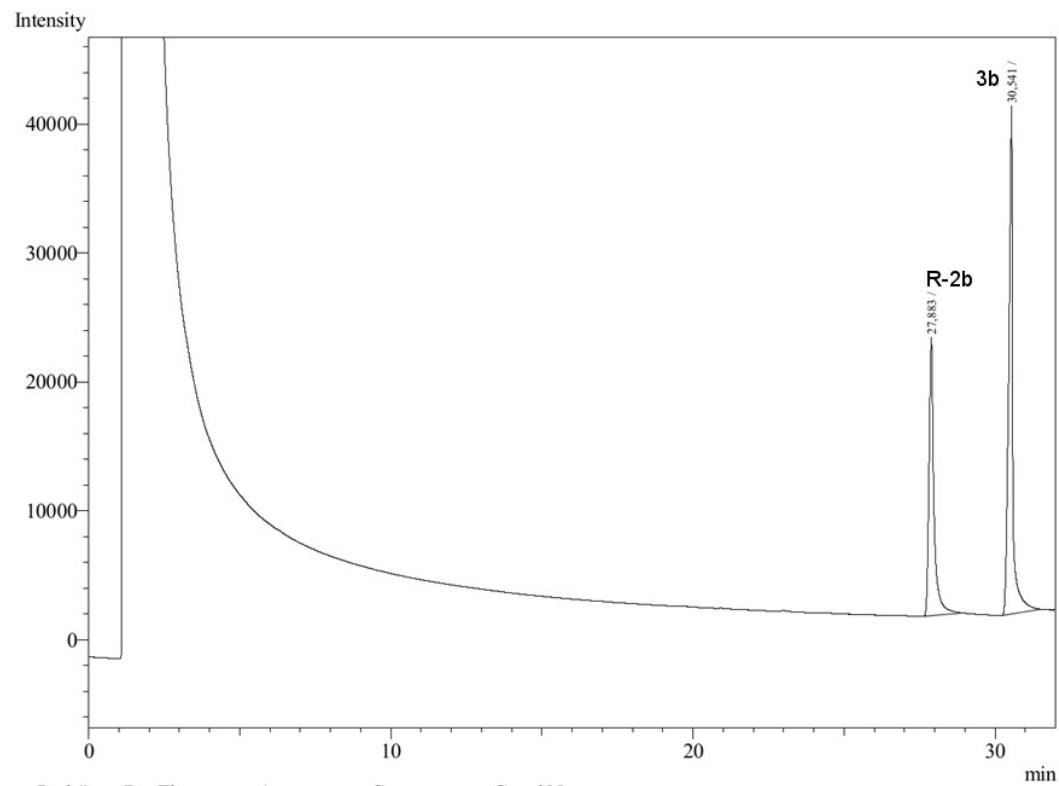
<sup>1</sup>H NMR from (1,2,3,4-tetrahydronaftalen-1-yl)methanol (2b)



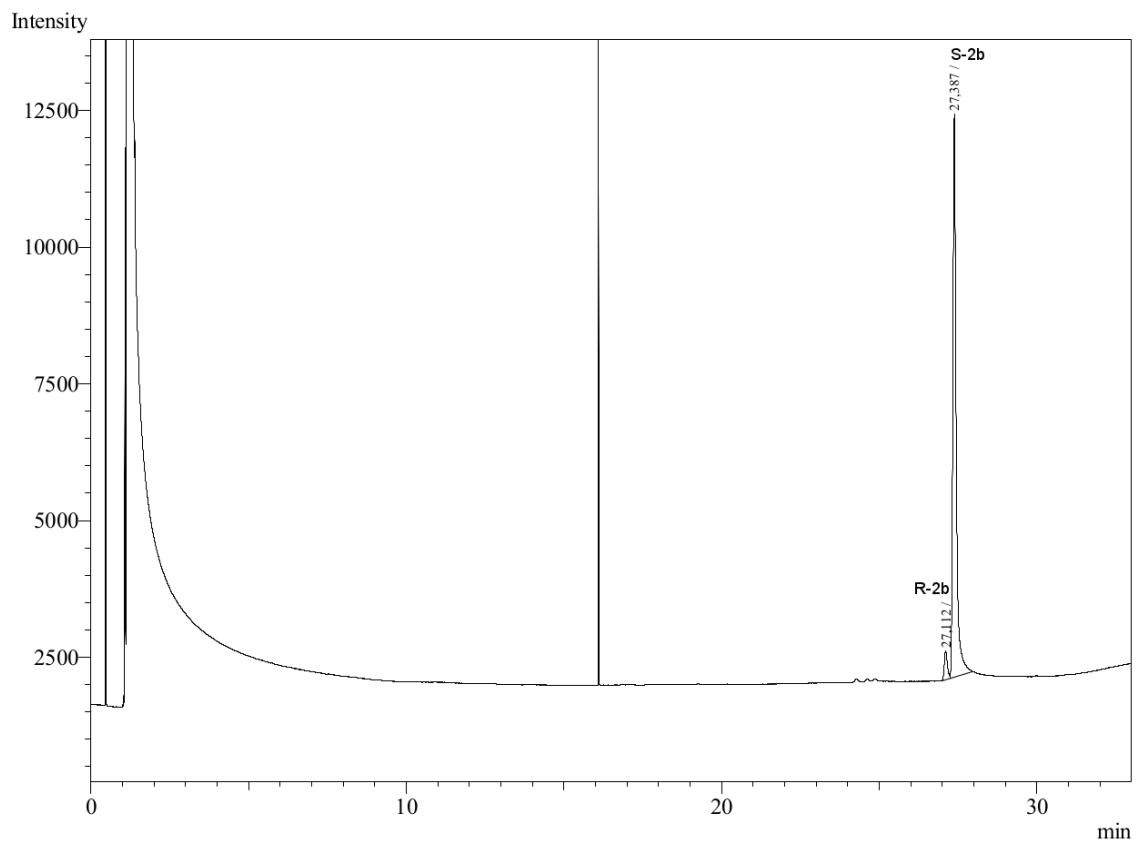
Injection of (*RS*)-(1,2,3,4-tetrahydronaftalen-1-yl)methanol (2b) on CG-FID equipped with  $\alpha$ -dex 120 chiral column.



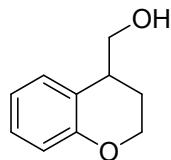
Injection of (+)-(R)-(1,2,3,4-tetrahydronaftalen-1-yl)methanol (2b) on CG-FID equipped with  $\alpha$ -dex 120 chiral column.



Injection of (-)-(S)-(1,2,3,4-tetrahydronaftalen-1-yl)methanol (2b) on CG-FID equipped with  $\alpha$ -dex 120 chiral column.

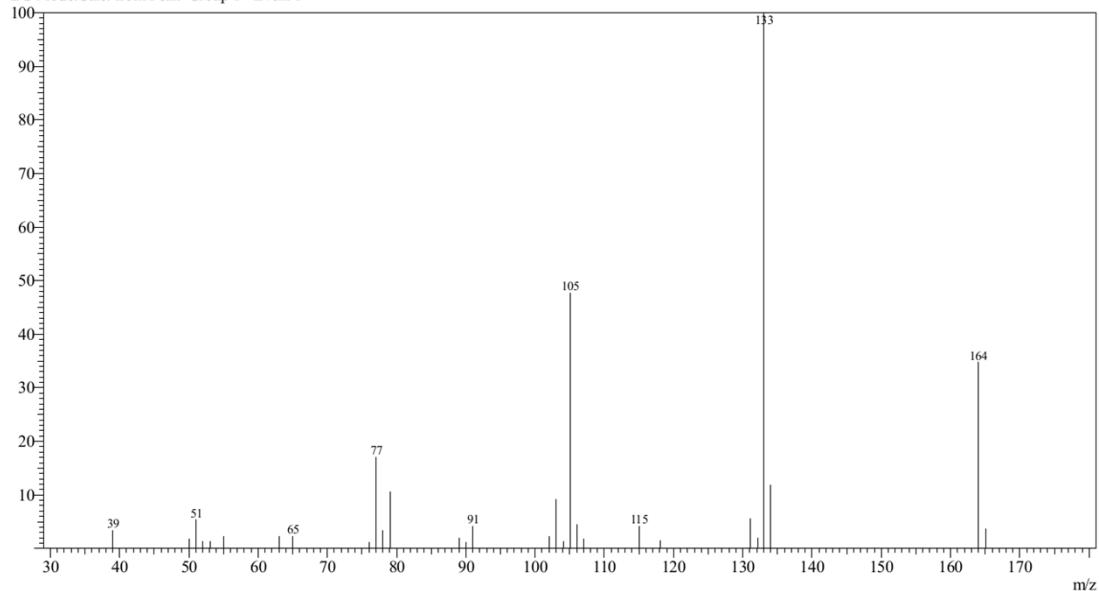


(3,4-dihydro-2H-chromen-4-yl)methanol (2c)

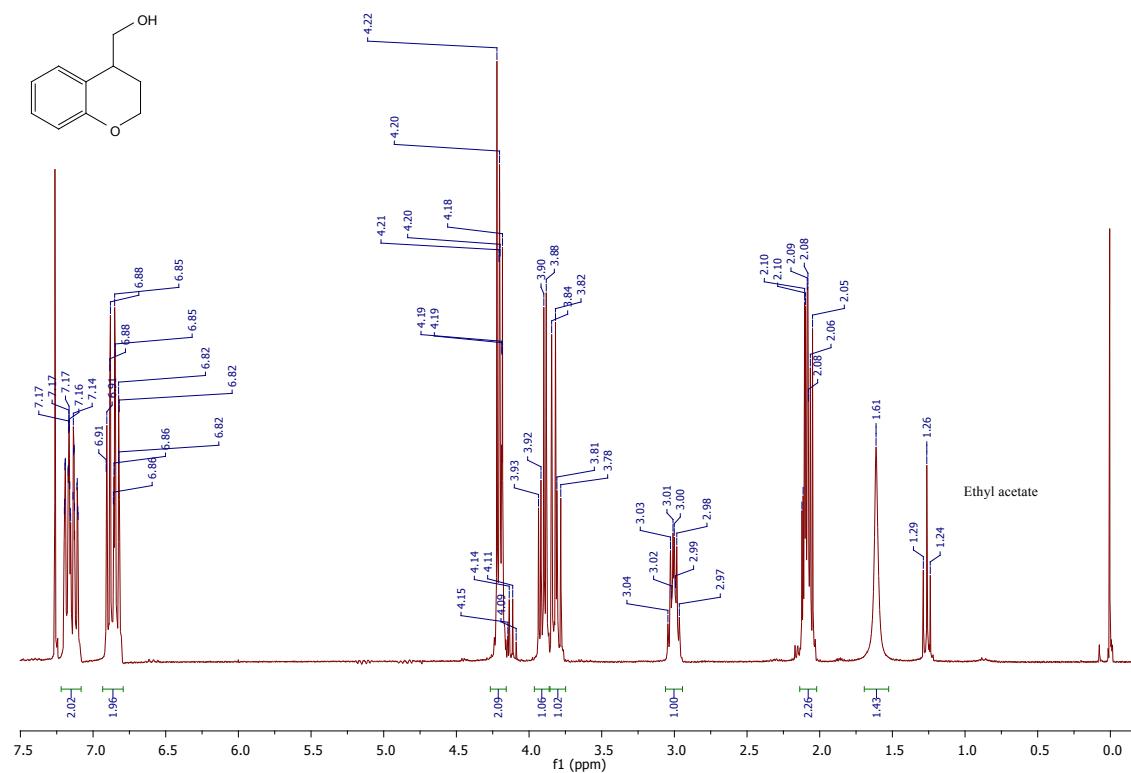


MS spectra from (3,4-dihydro-2H-chromen-4-yl)methanol (2c)

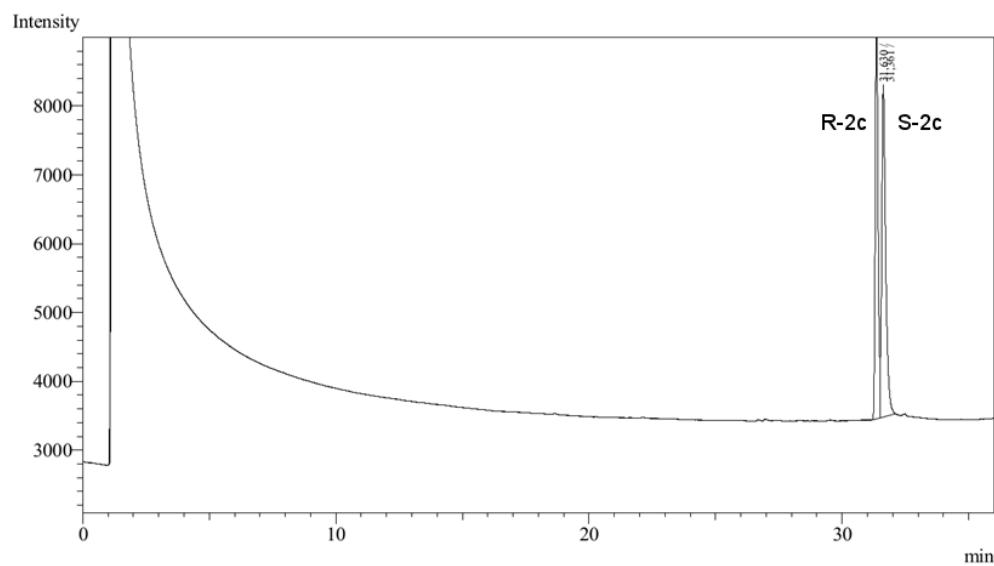
Peak#:1 R.Time:10.514(Scan#:1504)  
 MassPeaks:29  
 RawMode:Averaged 10.510-10.520(1503-1505)  
 BG Mode:Calc. from Peak Group 1 - Event 1



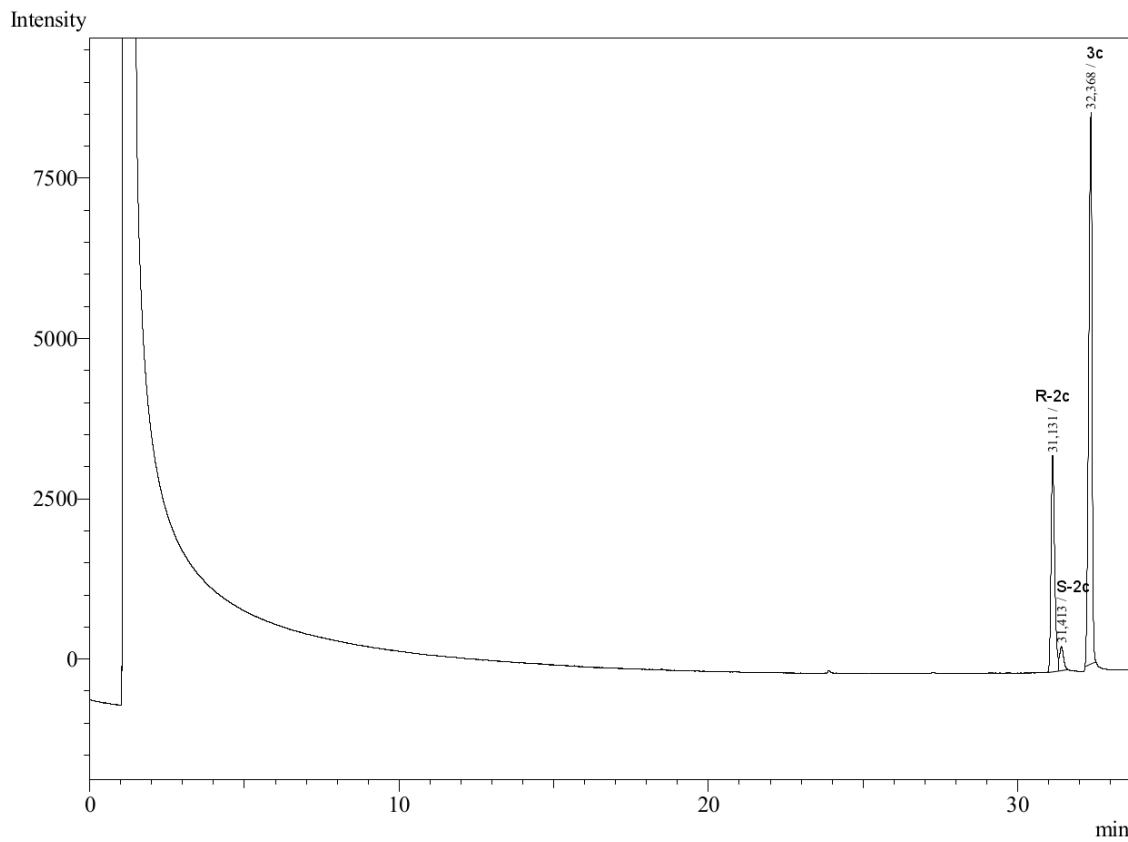
<sup>1</sup>H NMR spectra from (3,4-dihydro-2H-chromen-4-yl)methanol (2c)



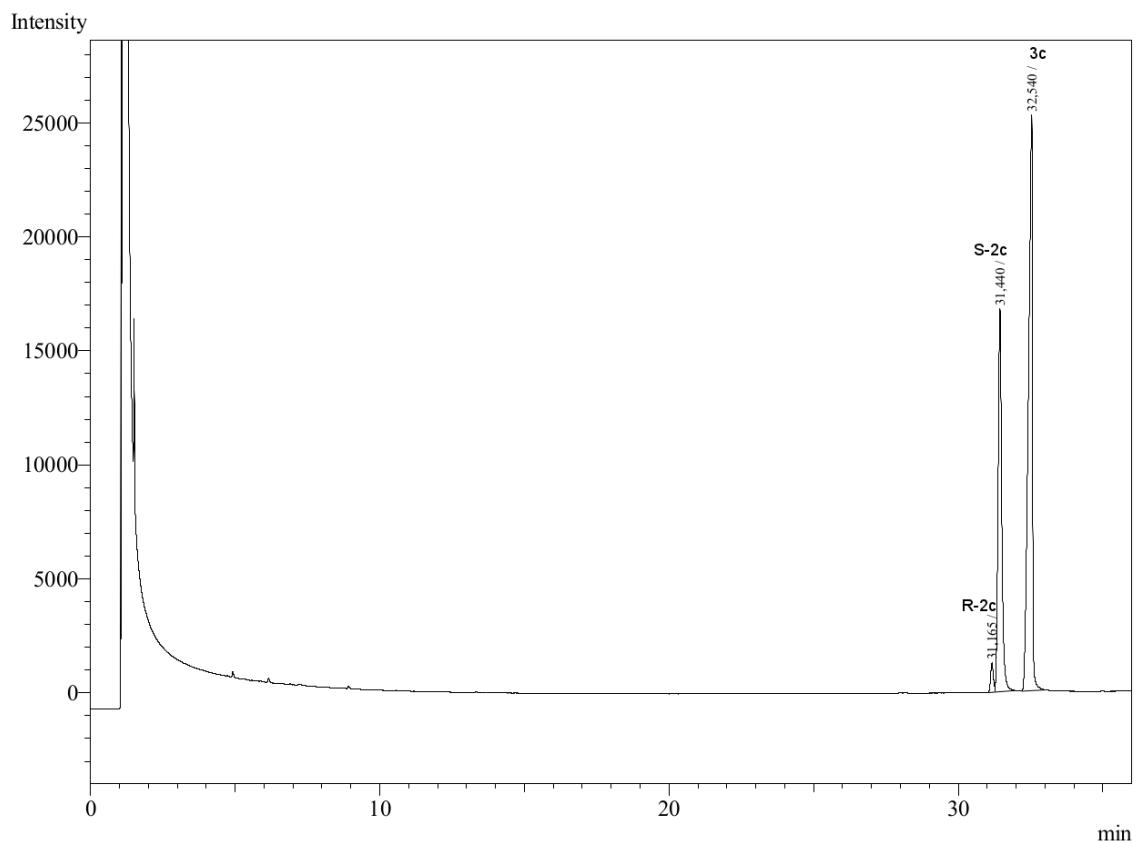
Injection of (*RS*)-(3,4-dihydro-2H-chromen-4-yl)methanol (2c) on CG-FID equipped with  $\alpha$ -dex 120 chiral column.



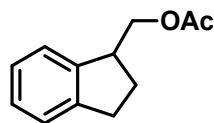
Injection of (+)-(R)-(3,4-dihydro-2H-chromen-4-yl)methanol (2c) on CG-FID equipped with  $\alpha$ -dex 120 chiral column.



Injection of (-)-(S)-(3,4-dihydro-2H-chromen-4-yl)methanol (2c) on CG-FID equipped with  $\alpha$ -dex 120 chiral column.

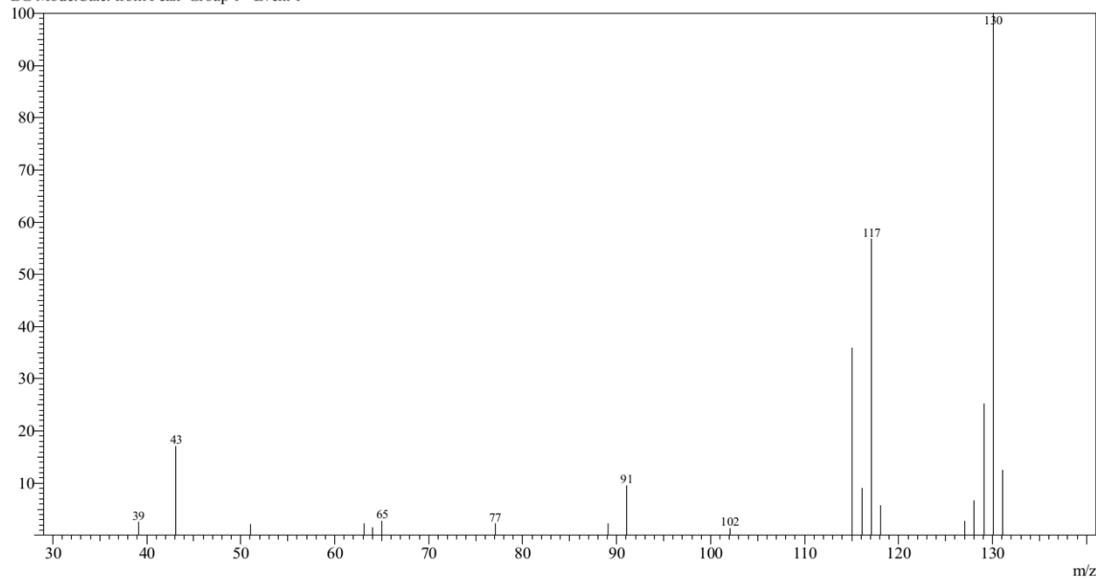


(2,3-dihydro-1*H*-inden-1-yl)methylacetate (3a).

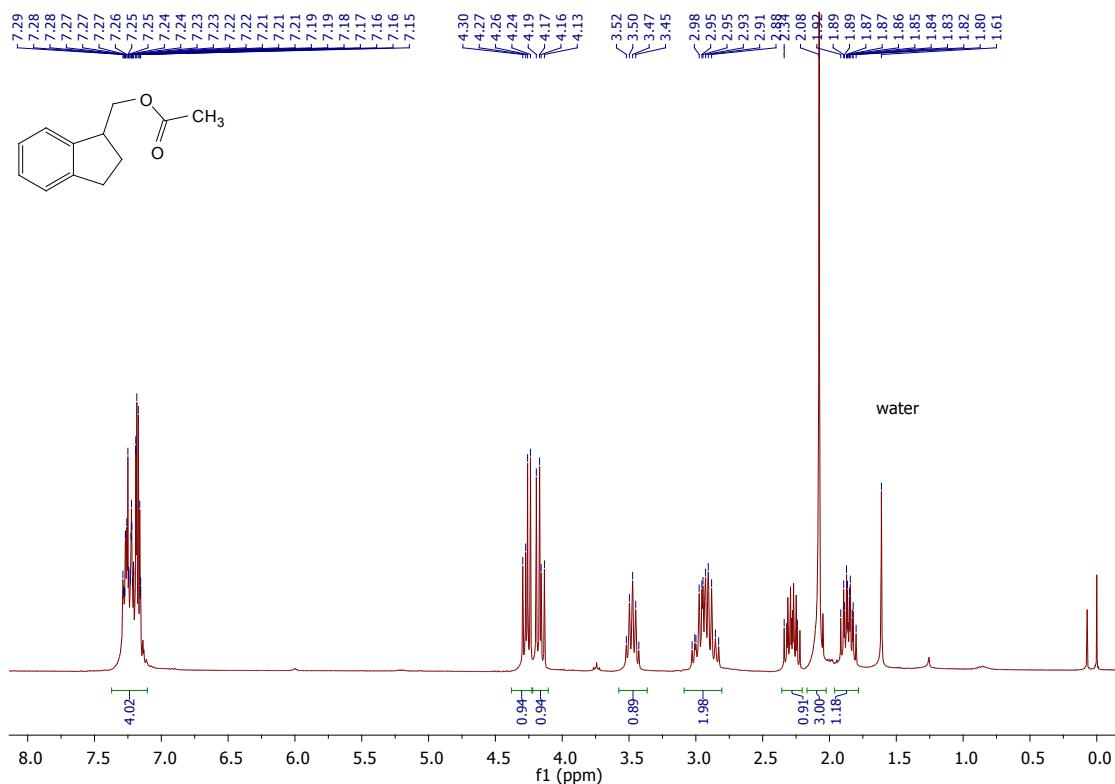


MS spectra from (2,3-dihydro-1*H*-inden-1-yl)methylacetate (3a).

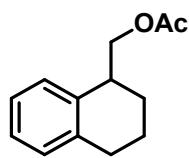
Peak#:2 R.Time:10.237(Scan#:1448)  
MassPeaks:19  
RawMode:Averaged 10.230-10.240(1447-1449)  
BG Mode:Calc. from Peak Group 1 - Event 1



<sup>1</sup>H NMR spectra from (2,3-dihydro-1*H*-inden-1-yl)methylacetate (3a).

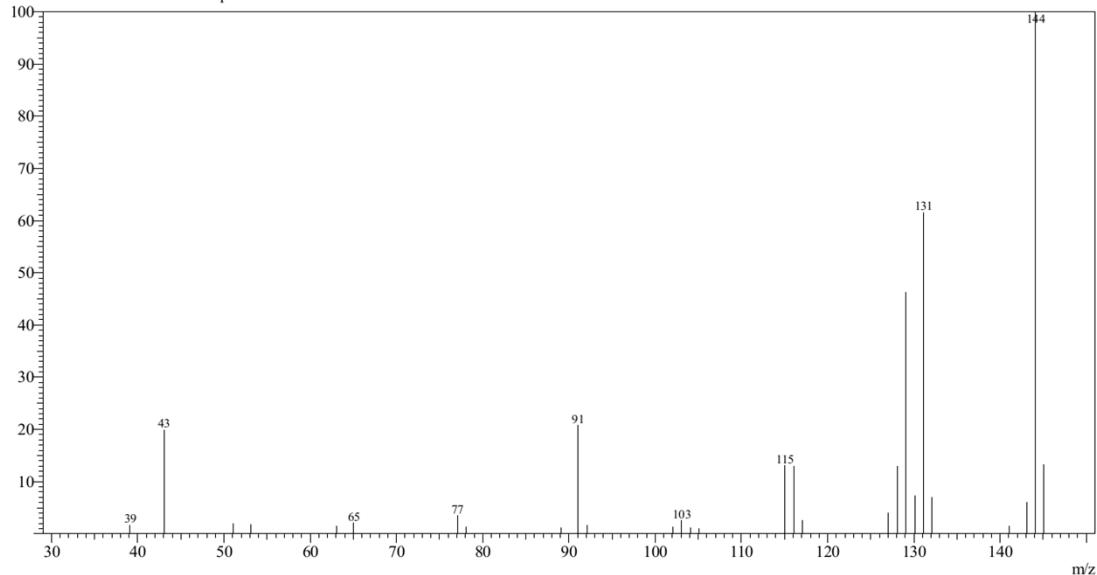


(1,2,3,4-tetrahydronaftalen-1-yl)methylacetate (3b).

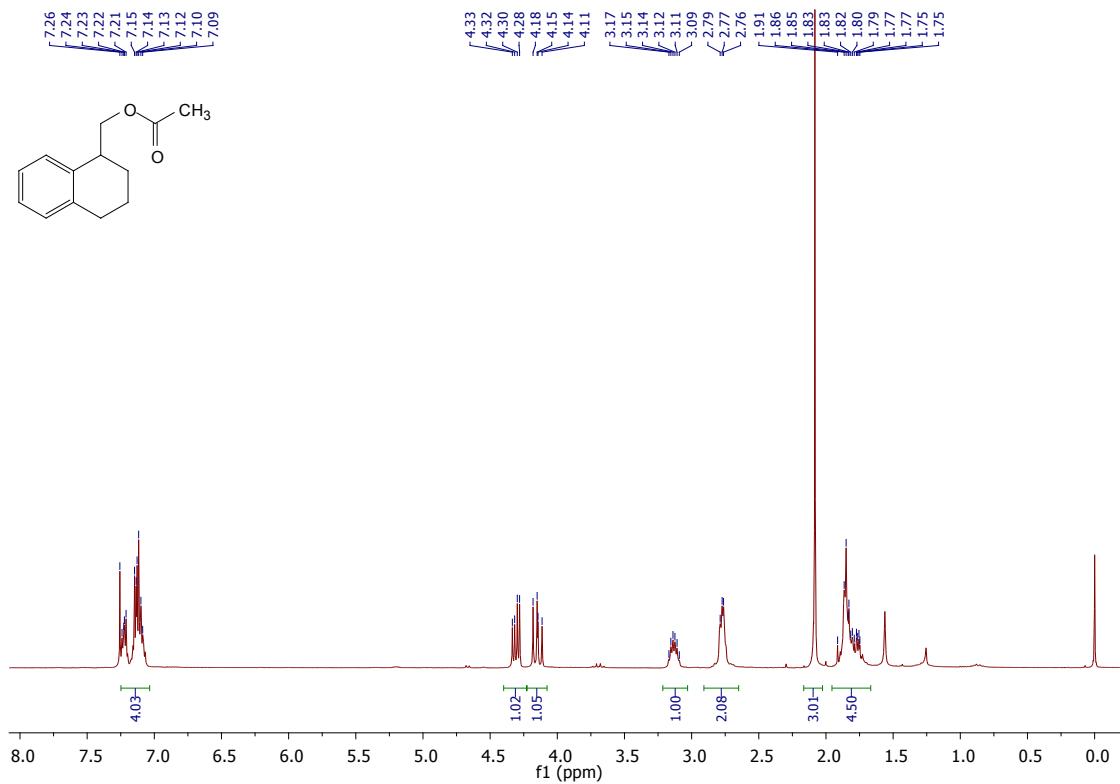


MS spectra from (1,2,3,4-tetrahydronaftalen-1-yl)methylacetate (3b).

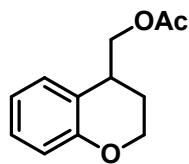
Peak#:2 R.Time:11.414(Scan#:1684)  
MassPeaks:28  
RawMode:Averaged 11.410-11.420(1683-1685)  
BG Mode:Calc. from Peak Group 1 - Event 1



<sup>1</sup>H NMR spectra from (1,2,3,4-tetrahydronaftalen-1-yl)methylacetate (3b).

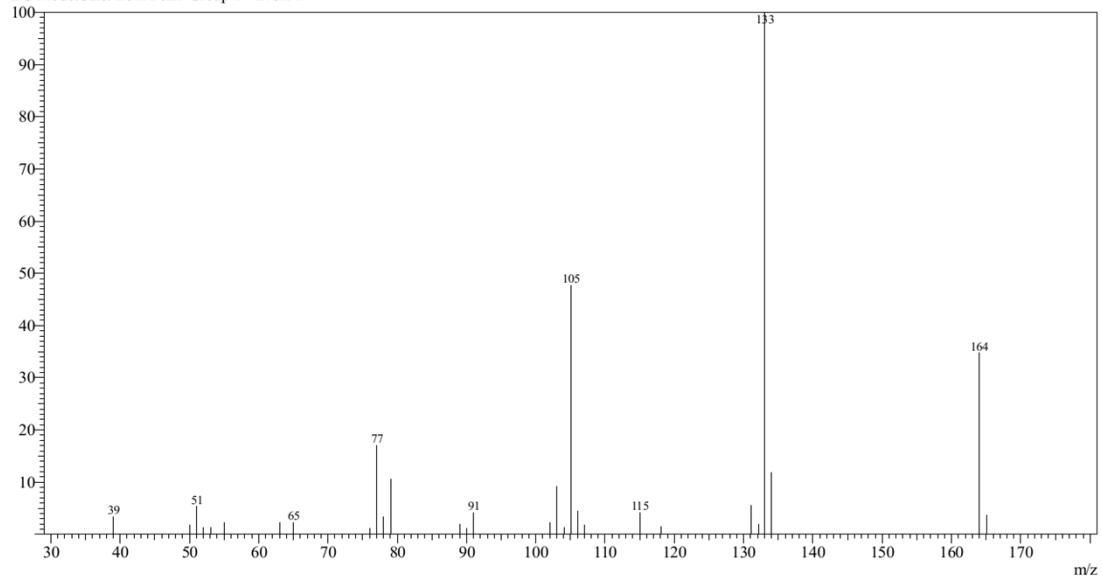


(3,4-dihydro-2H-chromen-4-yl)methyl acetate (3c).



MS spectra from (3,4-dihydro-2H-chromen-4-yl)methyl acetate (3c).

Peak#:1 R.Time:10.514(Scan#:1504)  
MassPeaks:29  
RawMode:Averaged 10.510-10.520(1503-1505)  
BG Mode:Calc. from Peak Group 1 - Event 1



<sup>1</sup>H NMR spectra from (3,4-dihydro-2H-chromen-4-yl)methyl acetate (3c).

