

**Convergent Approach to Complex Spirocyclic Pyrans:
Practical Synthesis of the Oxa-Pinnaic Acid Core.**

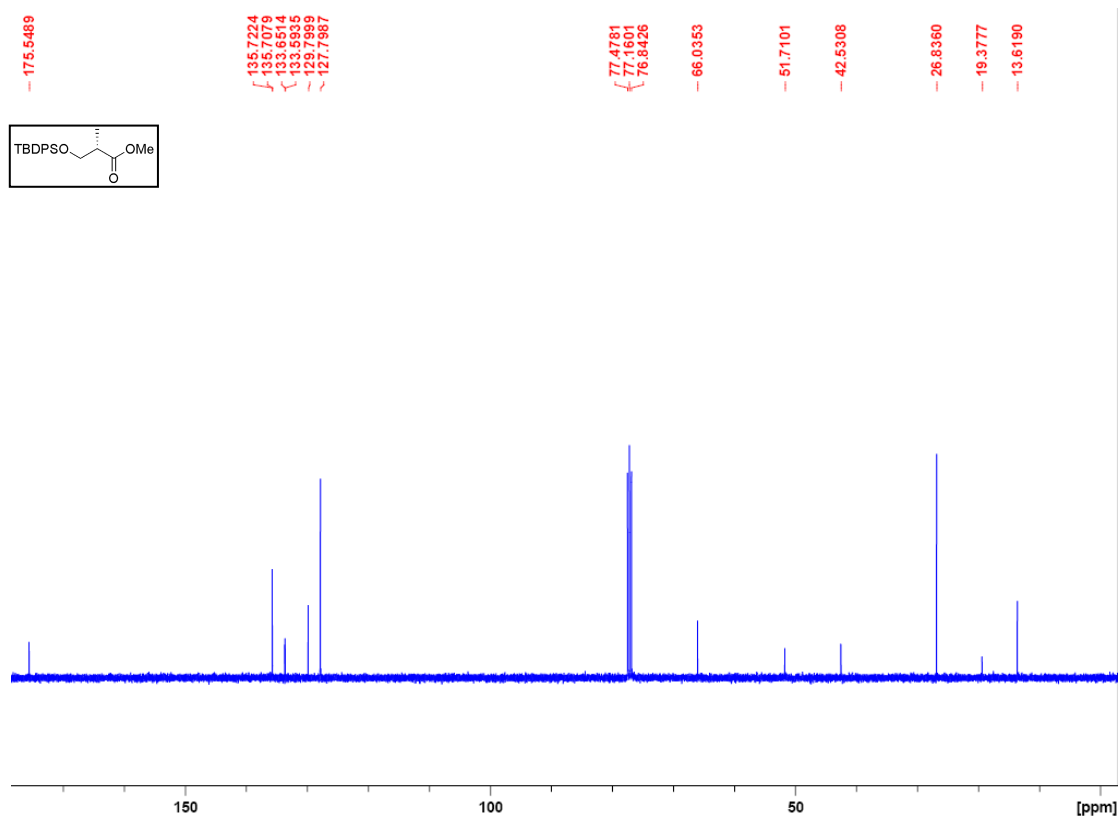
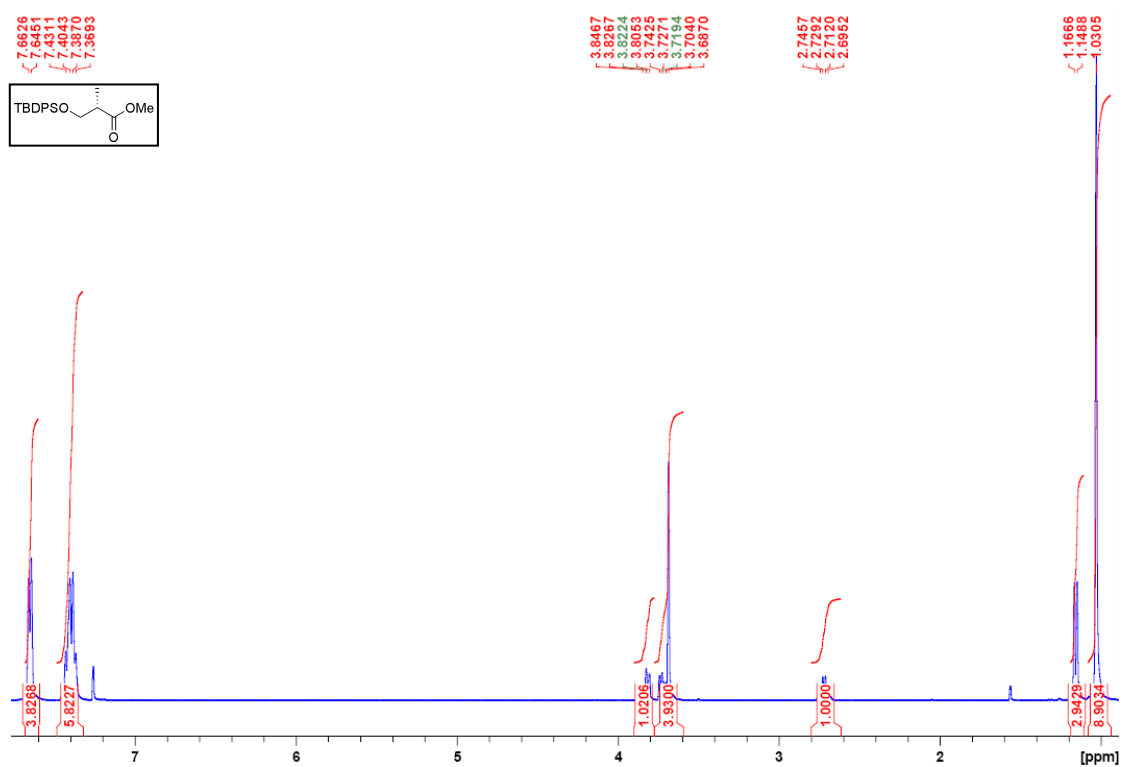
Spectral Data

Frank D. Ferrari, Adele E. Pasqua,

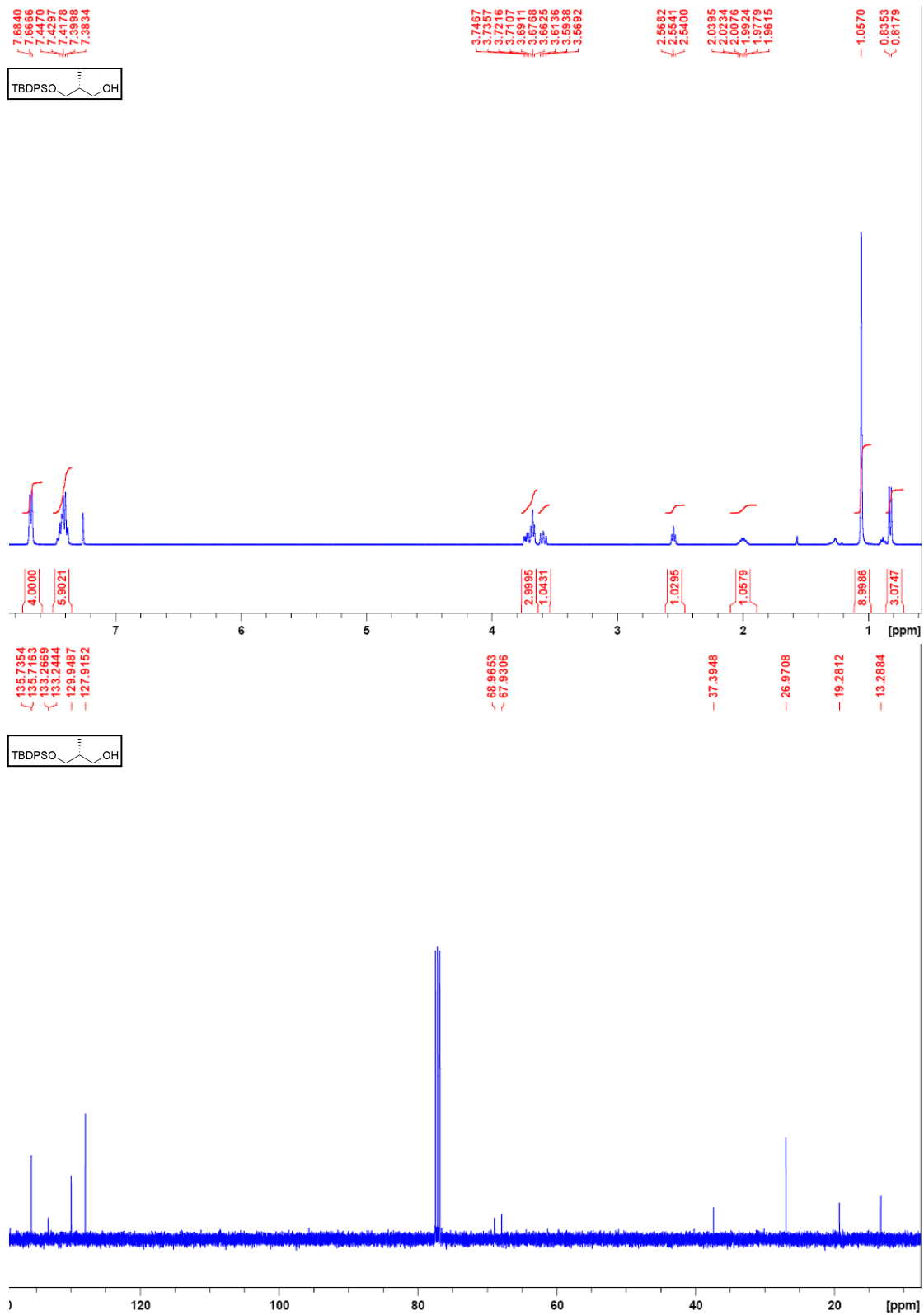
Andrew J. Ledger and Rodolfo Marquez

School of Chemistry
University of Glasgow
Glasgow, G12 8QQ, U.K.
Fax: (+) 44 141 330 4888
E-mail: rudi.marquez@glasgow.ac.uk

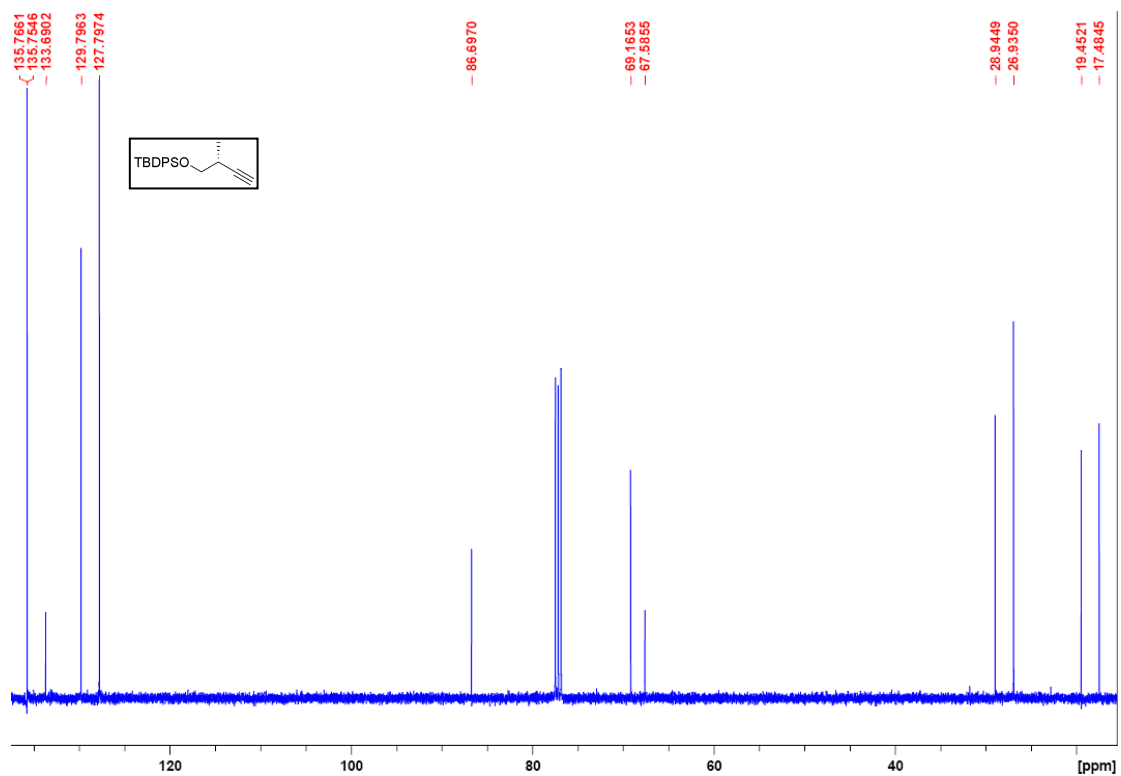
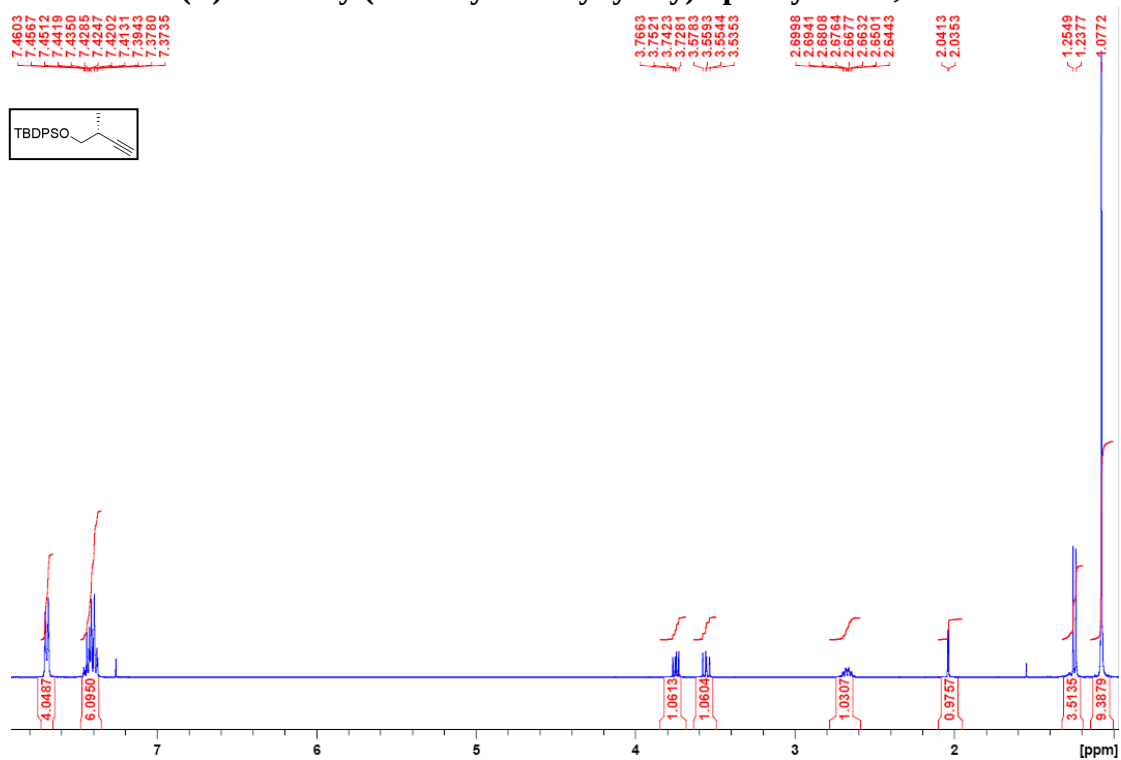
(S)-Methyl 3-(*tert*-butyldiphenylsilyloxy)-2-methylpropanoate, 15.

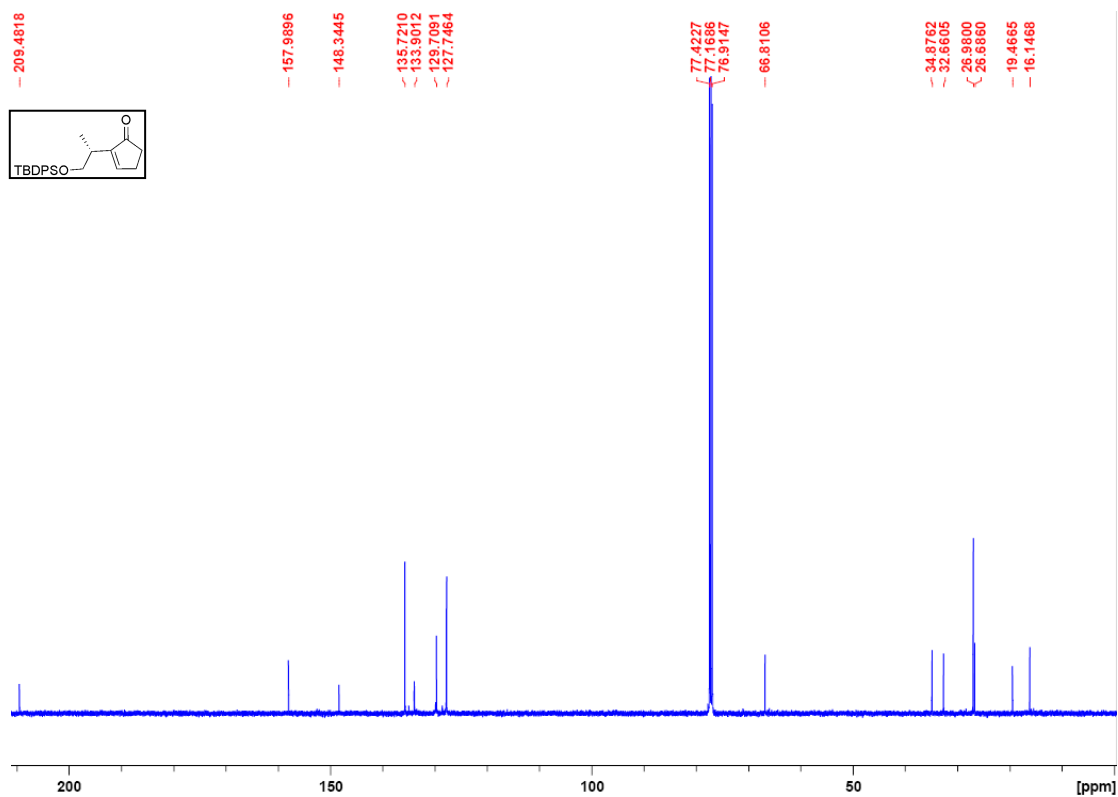
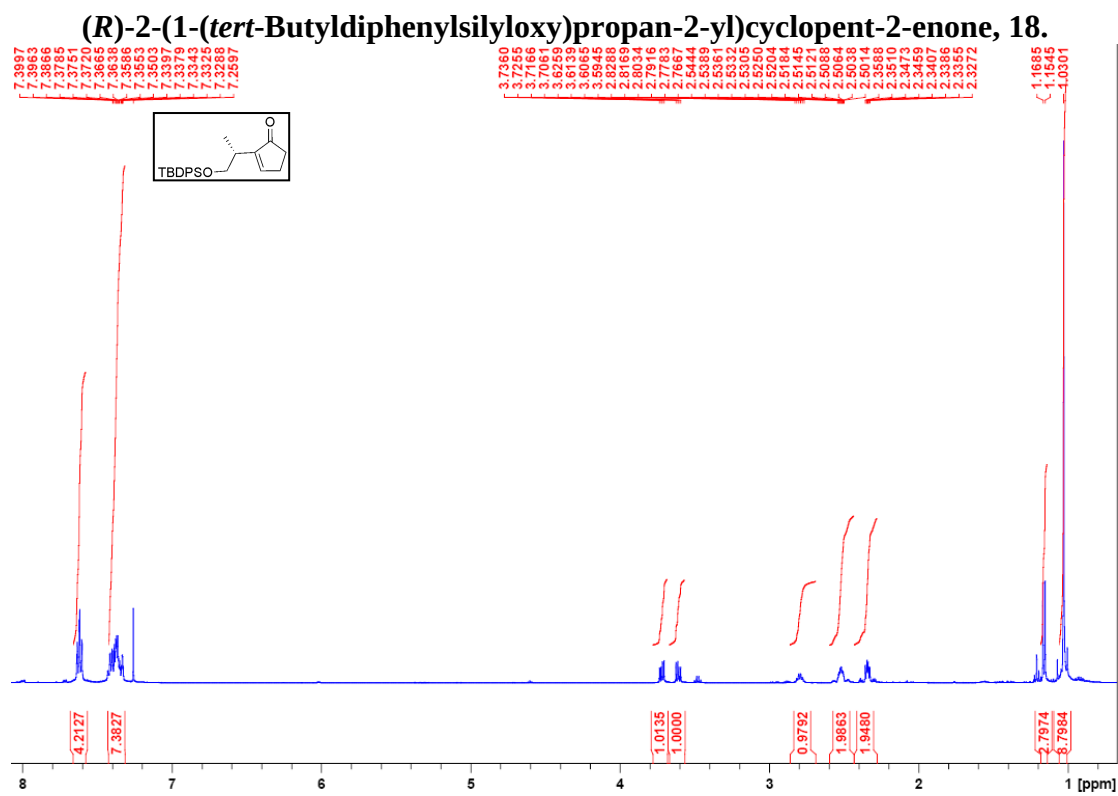


(R)-3-(tert-Butyldiphenylsilyloxy)-2-methylpropan-1-ol, 16.

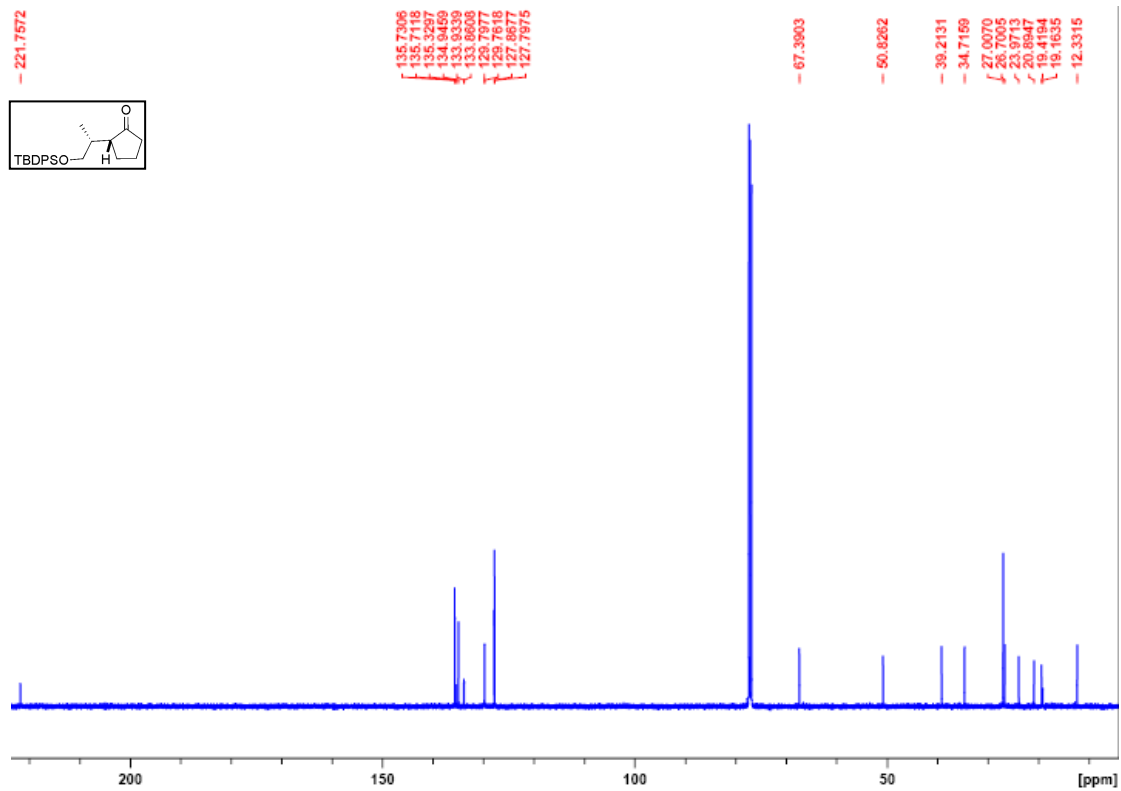
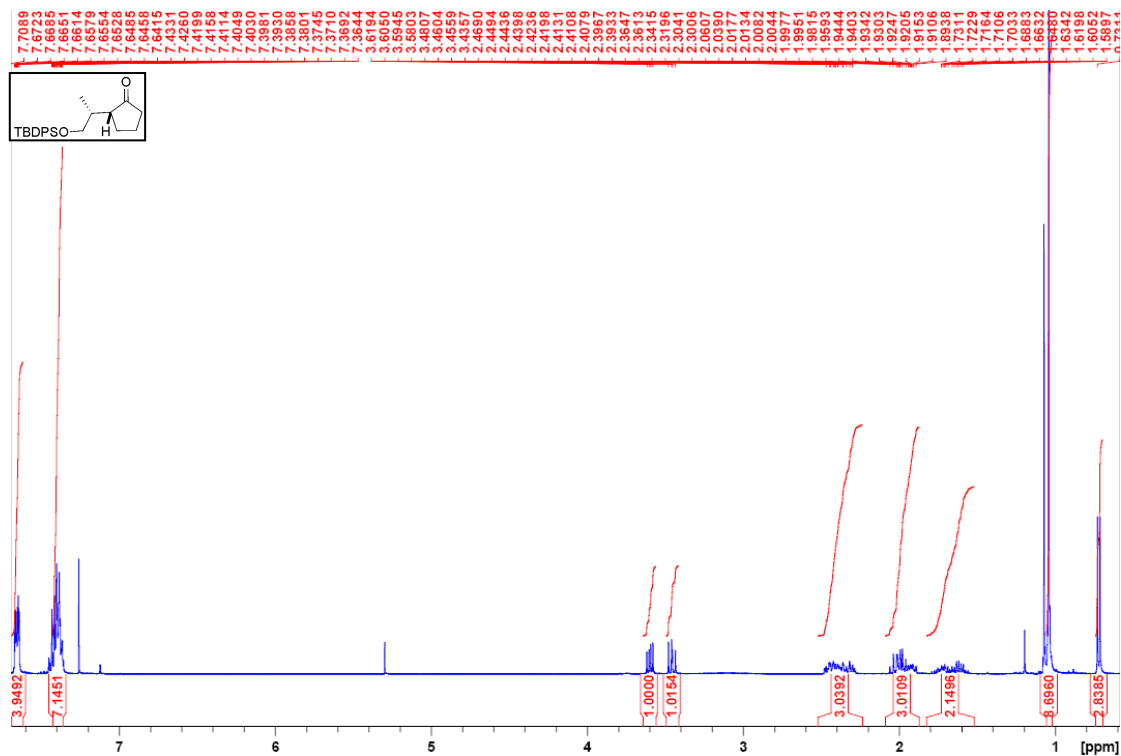


(R)-tert-Butyl(2-methylbut-3-ynyloxy)diphenylsilane, 17.

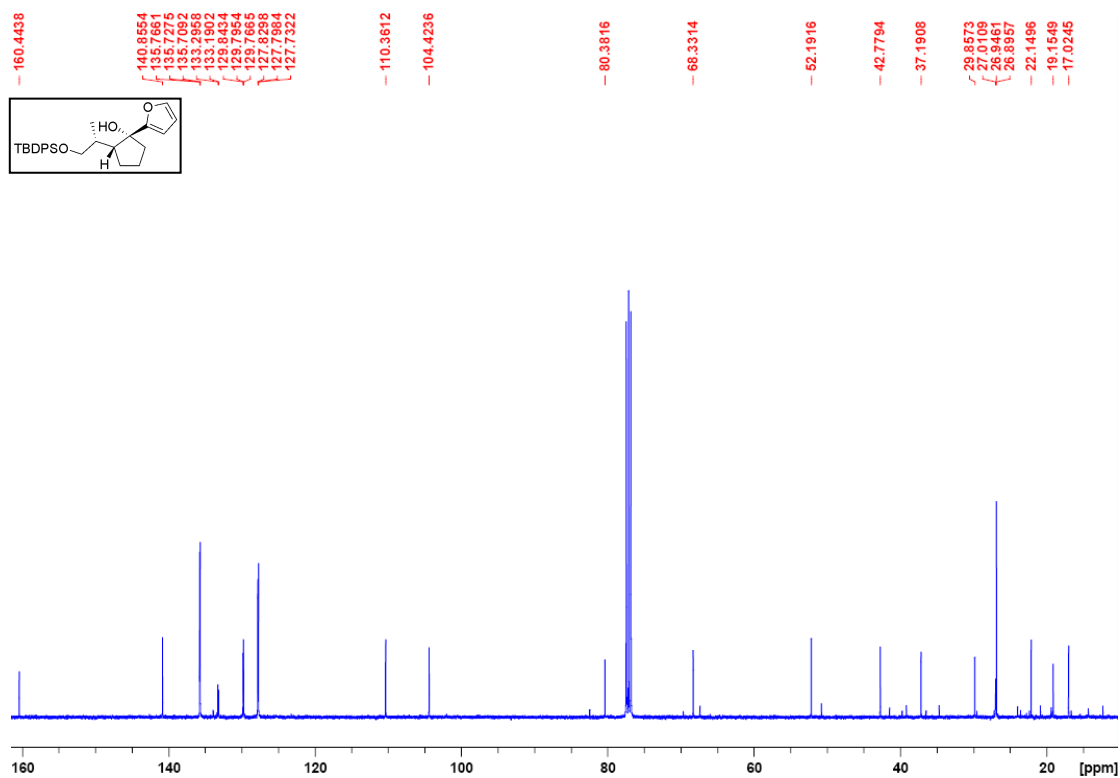
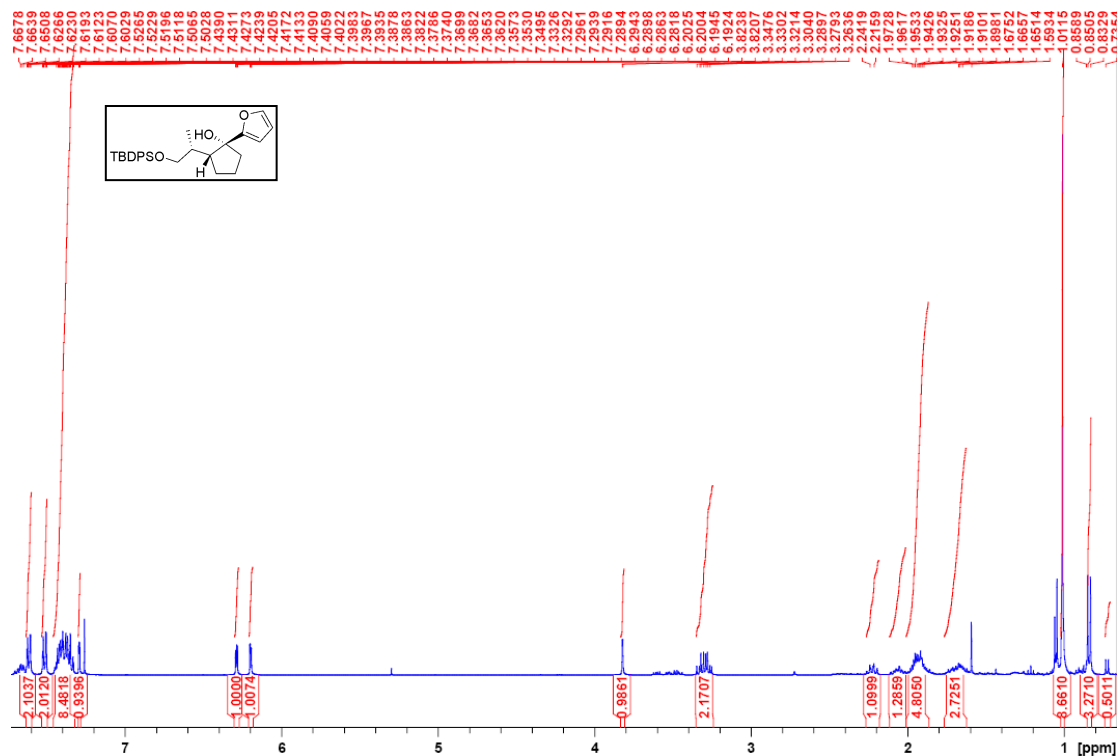




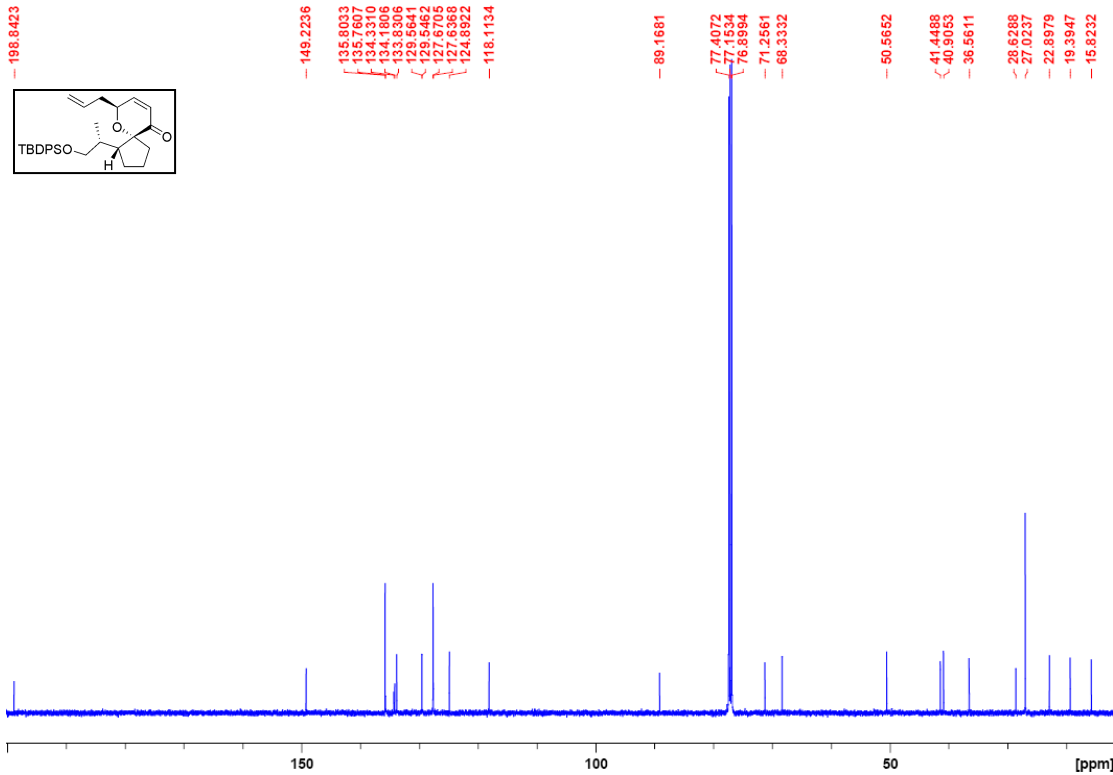
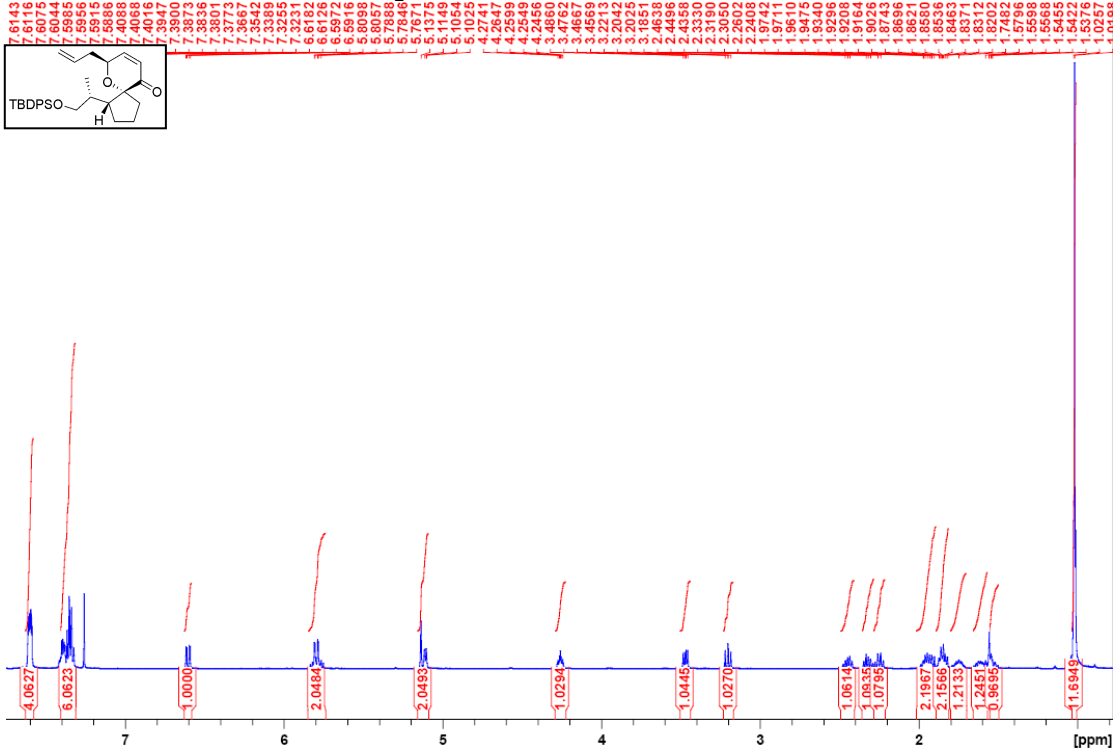
(R)-2-((R)-1-(tert-Butyldiphenylsilyloxy)propan-2-yl)cyclopentanone, 19a.



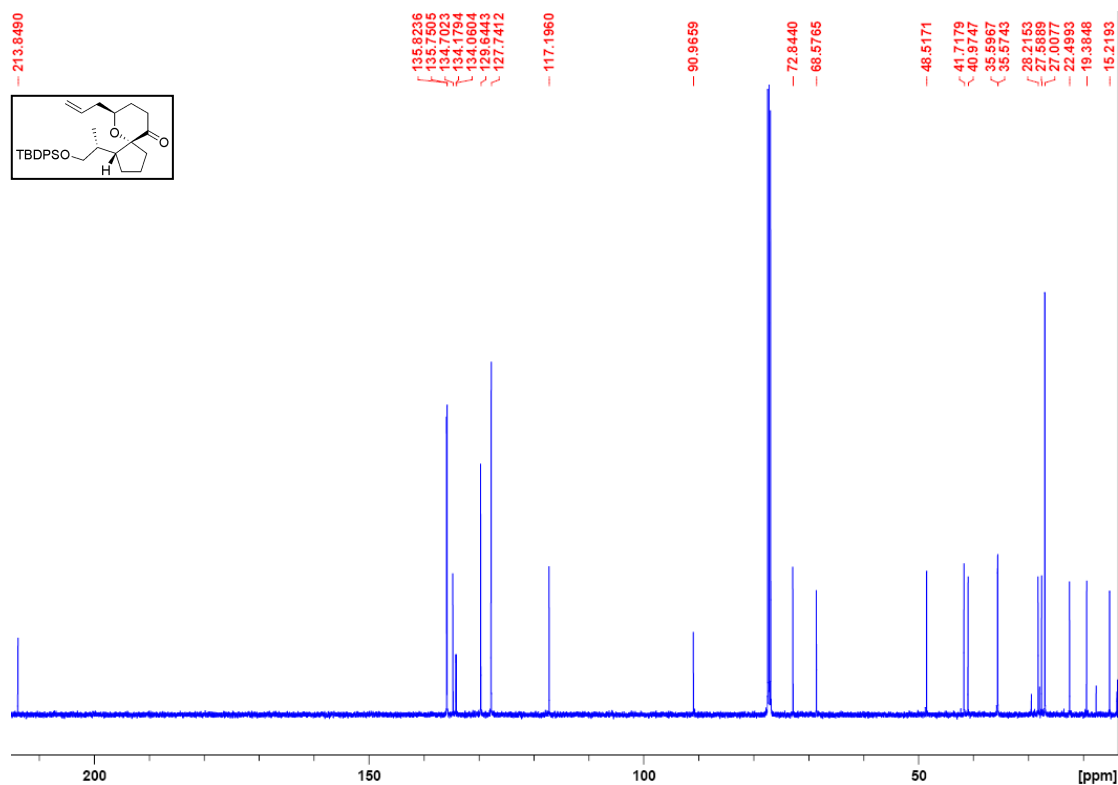
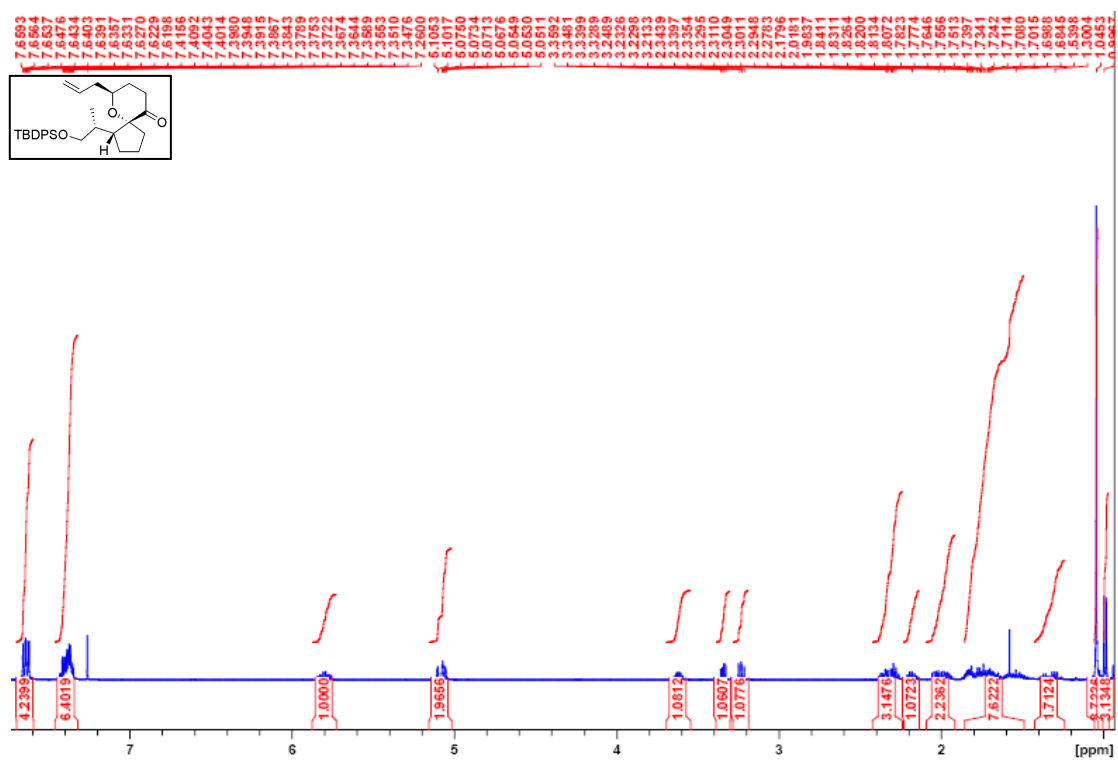
(1*R*,2*R*)-2-((*R*)-1-(*tert*-Butyldiphenylsilyloxy)propan-2-yl)-1-(furan-2-yl)cyclopentanol, 20.



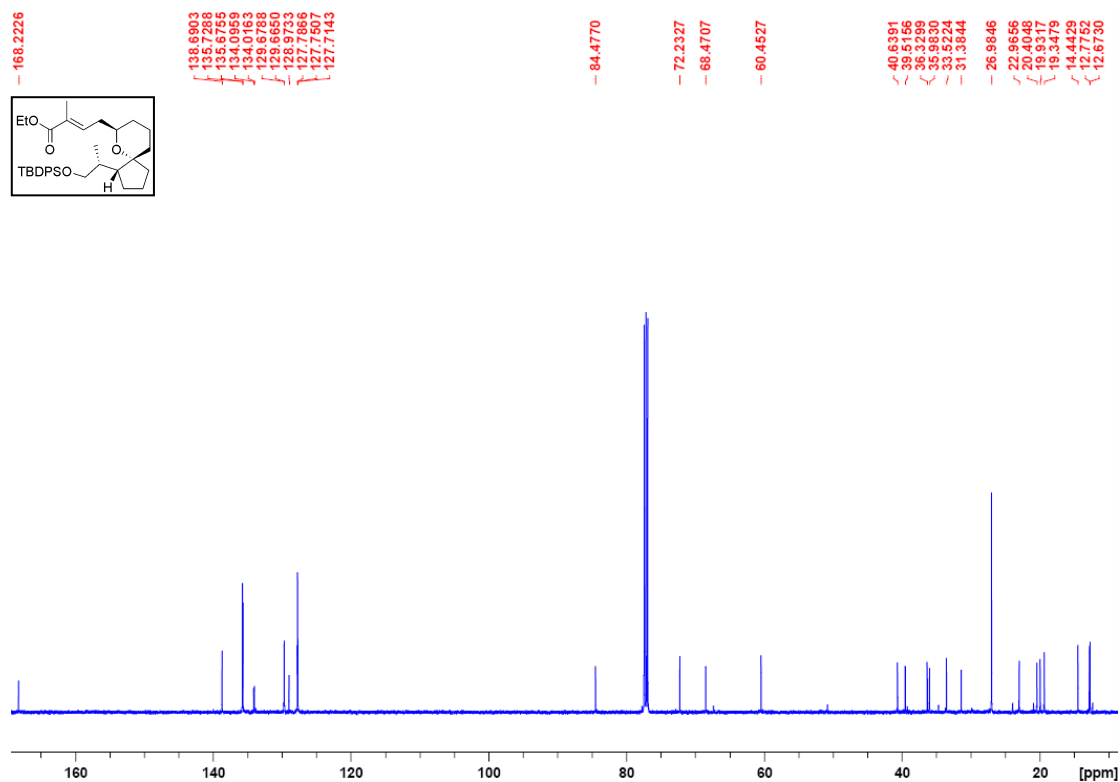
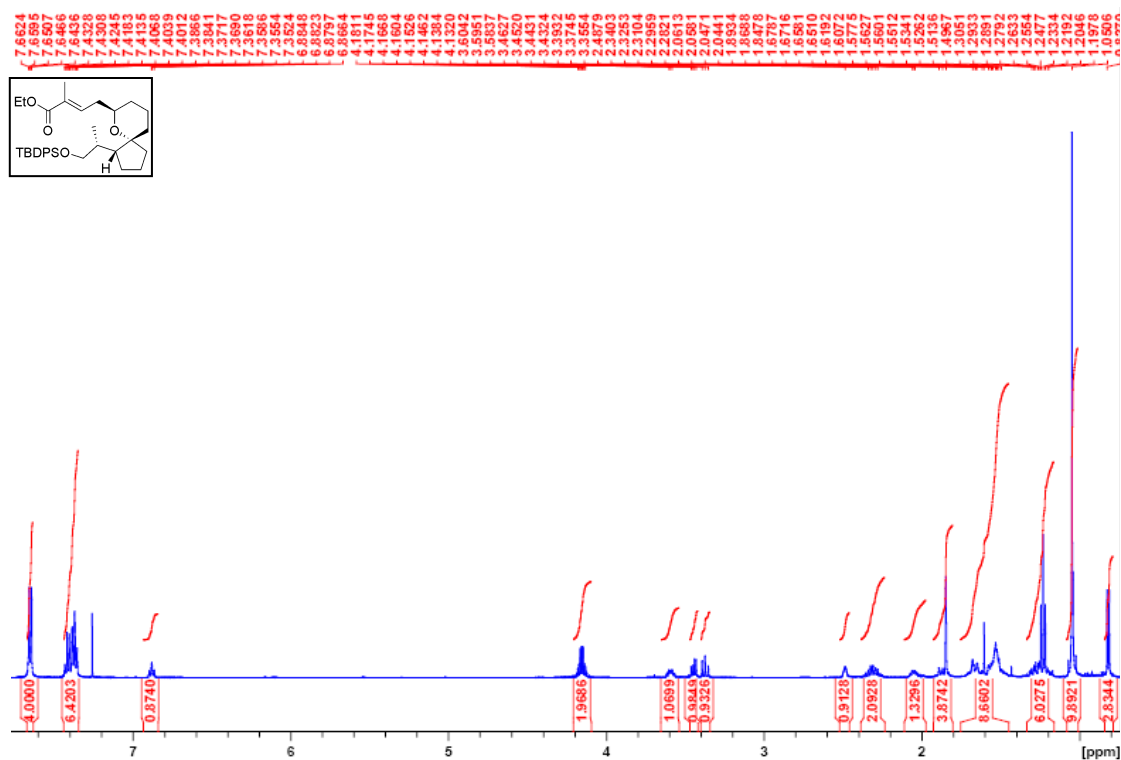
(1*R*,5*R*,7*S*)-7-Allyl-1-((*R*)-1-(*tert*-butyldiphenylsilyloxy)propan-2-yl)-6-oxaspiro[4.5]dec-8-en-10-one, 22.



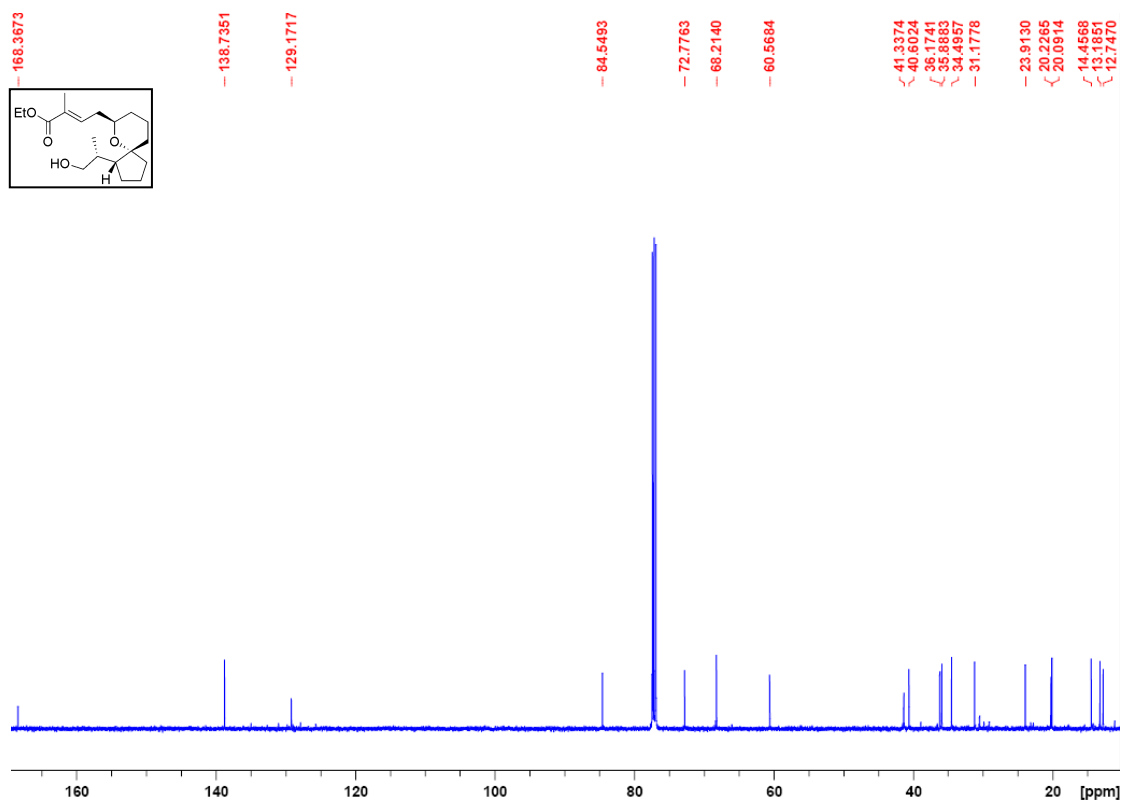
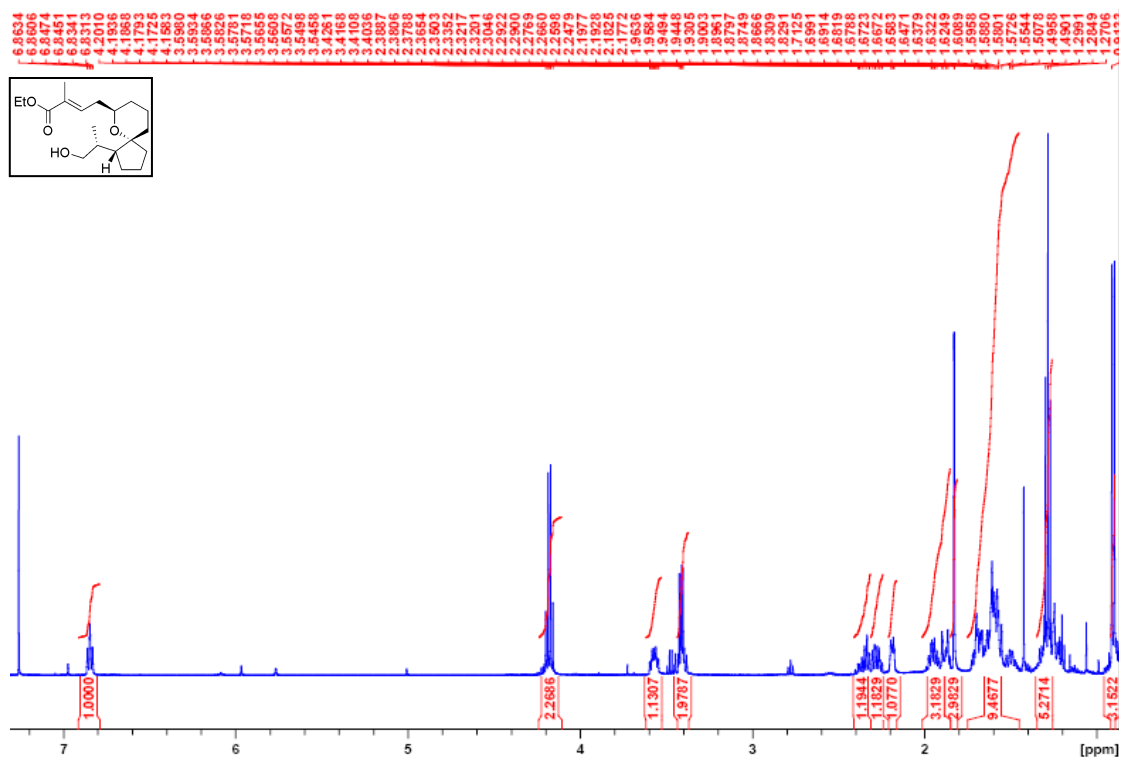
(1*R*,5*R*,7*R*)-7-Allyl-1-((*R*)-1-(*tert*-butyldiphenylsilyloxy)propan-2-yl)-6-oxaspiro[4.5]decan-10-one, 23.



(E)-Ethyl 4-((1R,5S,7R)-1-((R)-1-(tert-butyldiphenylsilyloxy)propan-2-yl)-6-oxaspiro[4.5]decan-7-yl)-2-methylbut-2-enoate, 26.



(E)-Ethyl 4-((1*R*,5*S*,7*R*)-1-((*R*)-1-hydroxypropan-2-yl)-6-oxaspiro[4.5]decan-7-yl)-2-methylbut-2-enoate, 27.



(E)-Ethyl 4-((1*R*,5*S*,7*R*)-1-((*S*)-but-3-en-2-yl)-6-oxaspiro[4.5]decan-7-yl)-2-methylbut-2-enoate, 28.

