

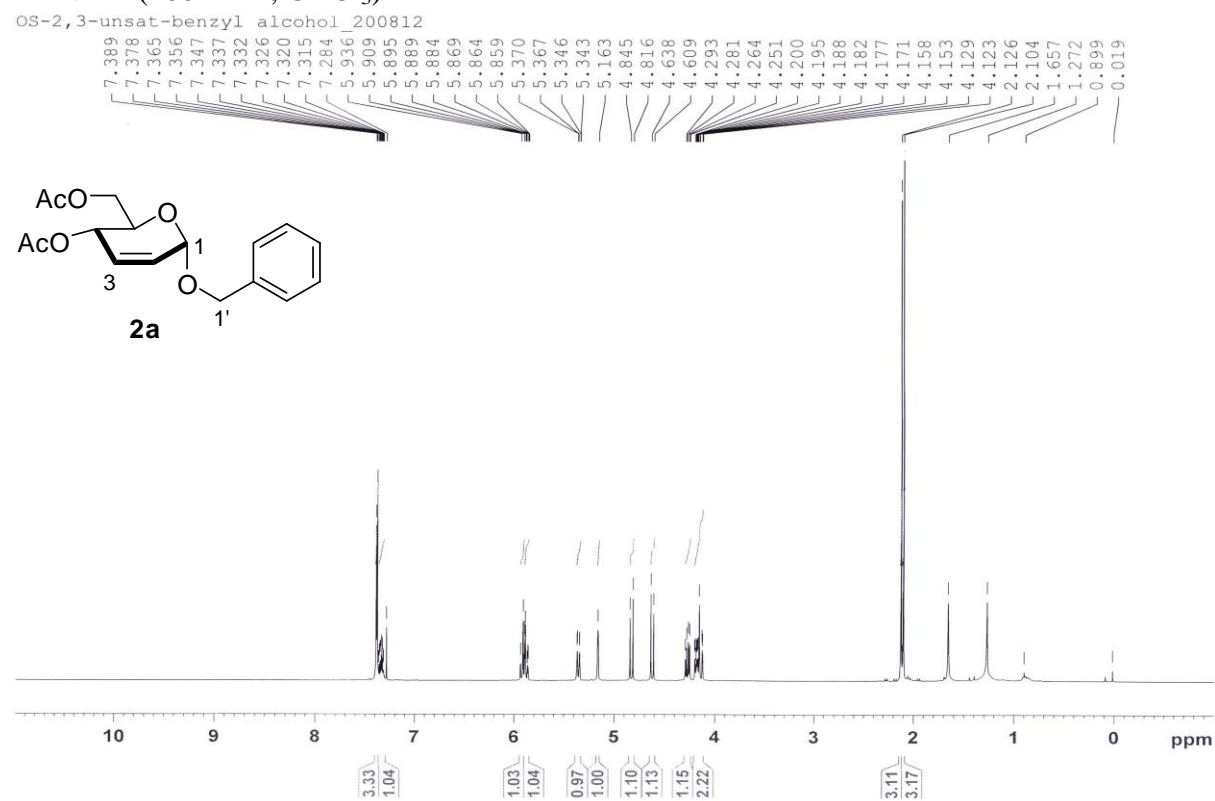
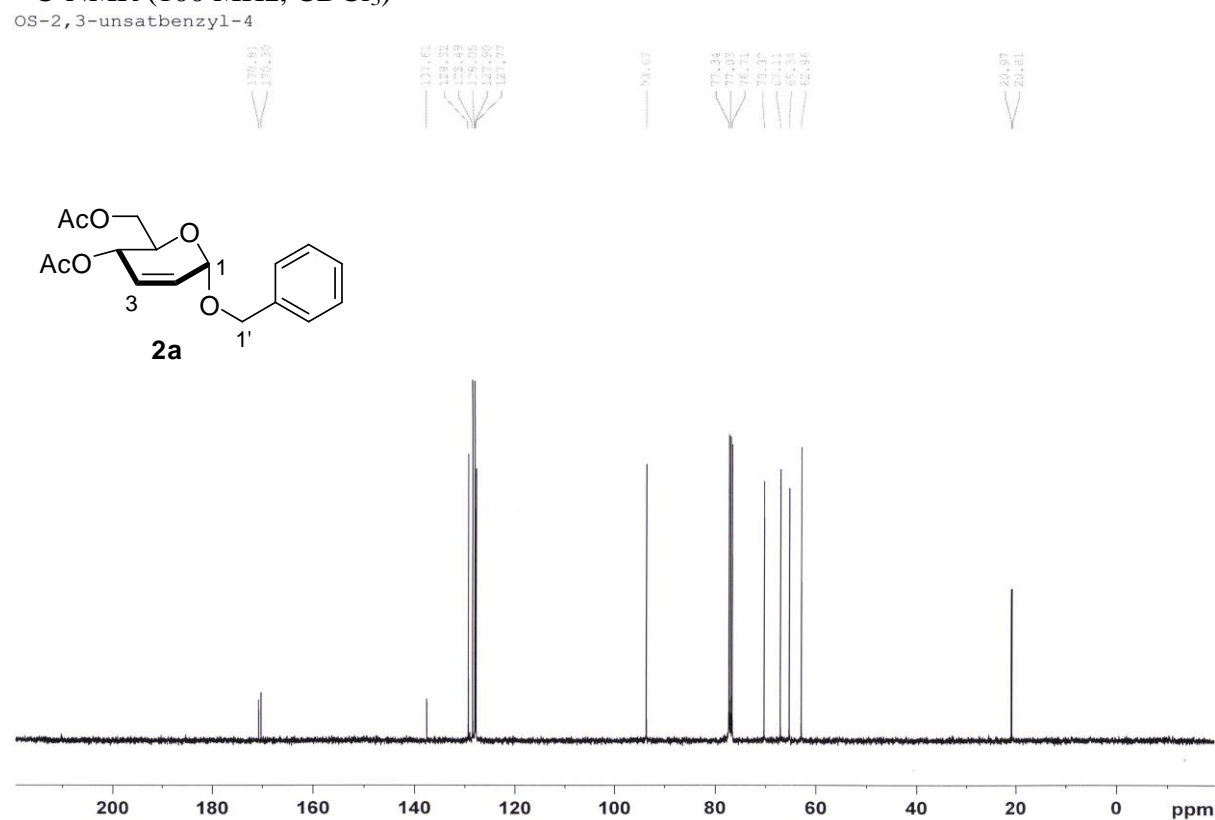
Supporting Information

IBr-CATALYZED *O*-GLYCOSIDATION OF D-GLUCALS: FACILE SYNTHESIS OF 2,3-UNSATURATED-*O*-GLYCOSIDES

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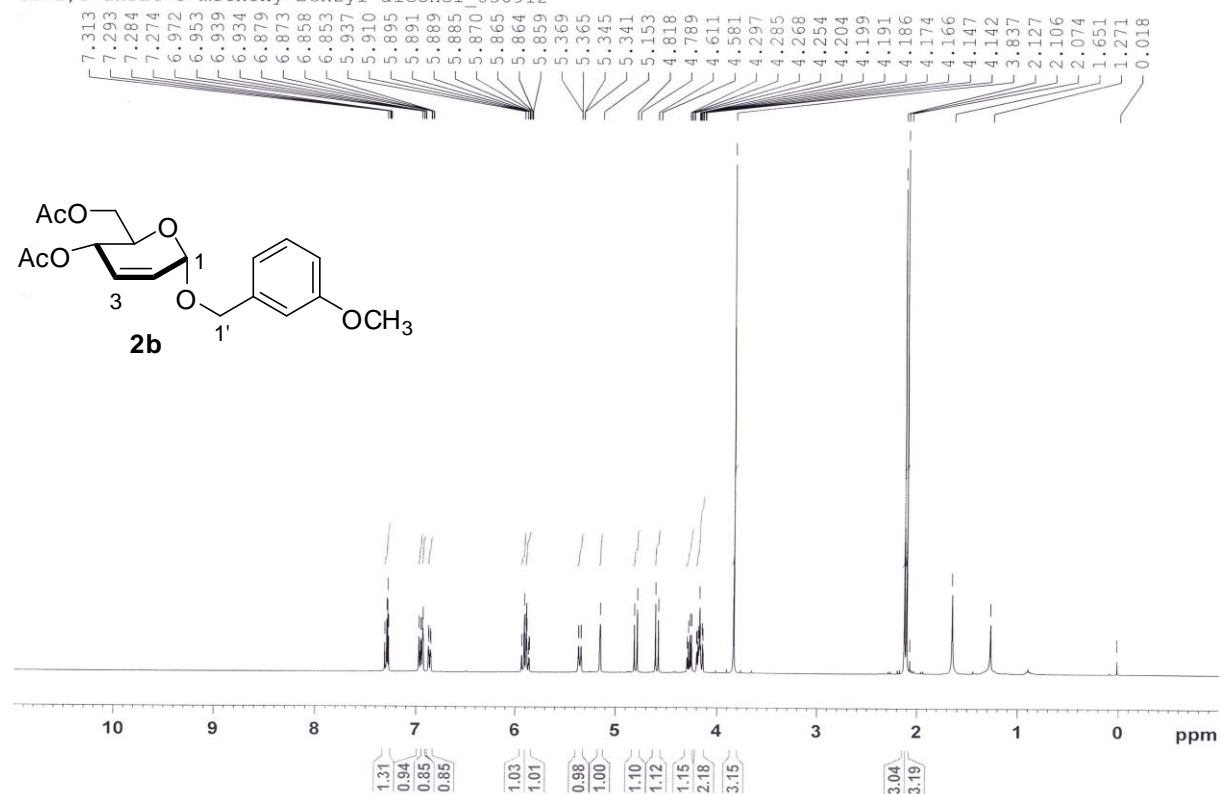
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^1H and ^{13}C NMR spectra of 2,3-unsaturated *O*-glycosyl triazole derivatives**Benzyl-4,6-di-*O*-acetyl-2,3-dideoxy- α -D-*erythro*-hex-2-enopyranoside (2a):** **^1H -NMR (400 MHz, CDCl_3)** **^{13}C -NMR (100 MHz, CDCl_3)**

3-Methoxybenzyl-4,6-di-O-acetyl-2,3-dideoxy- α -D-erythro-hex-2-enopyranoside (**2b**):

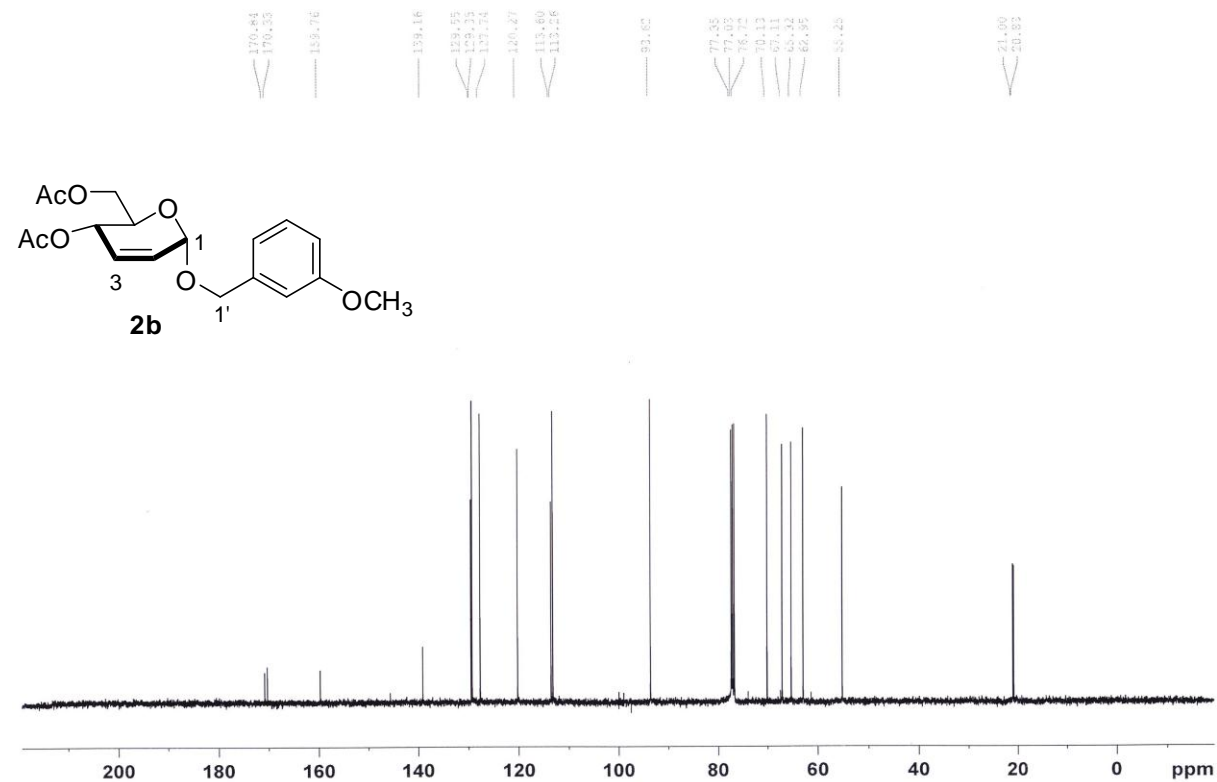
$^1\text{H-NMR}$ (400 MHz, CDCl_3)

OS-2,3-unsat-3-methoxy-benzyl alcohol_030912



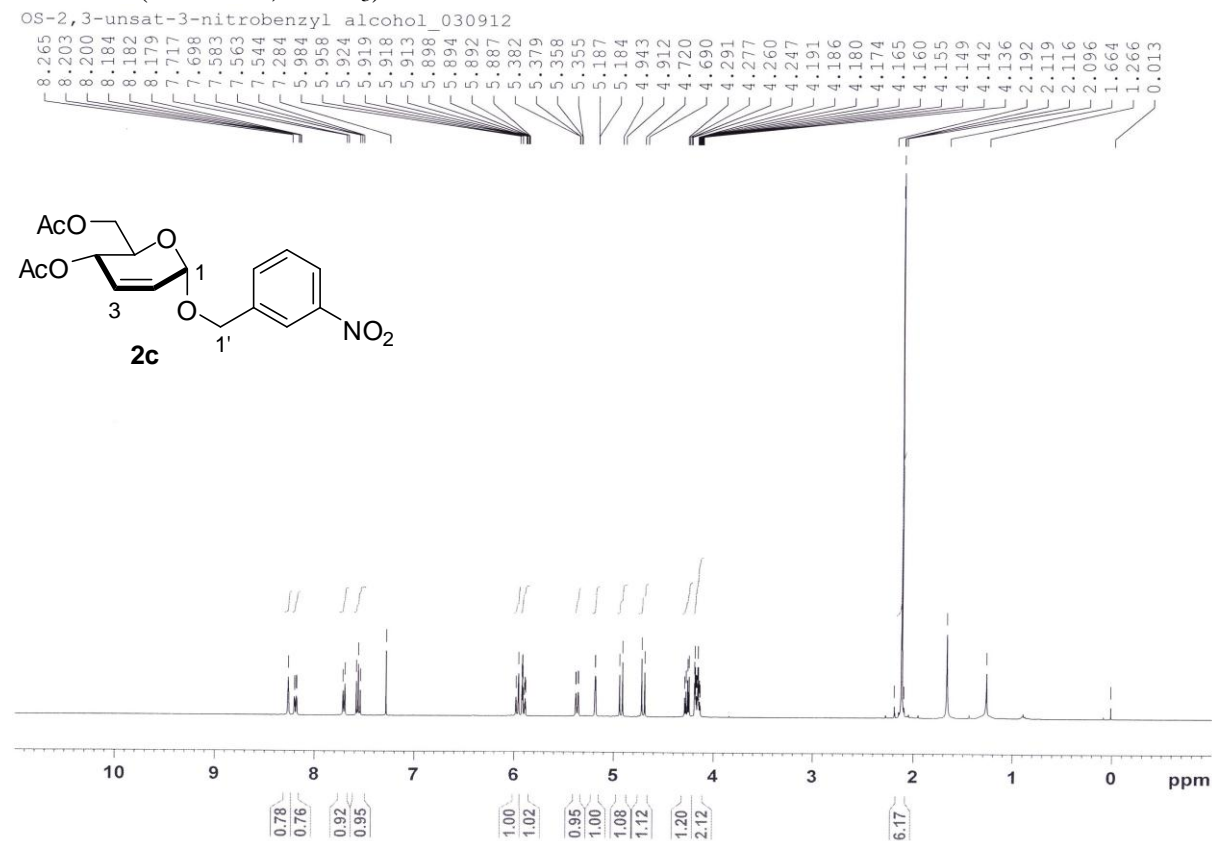
$^{13}\text{C-NMR}$ (100 MHz, CDCl_3)

OS-2,3-unsat-3-methoxy-81011

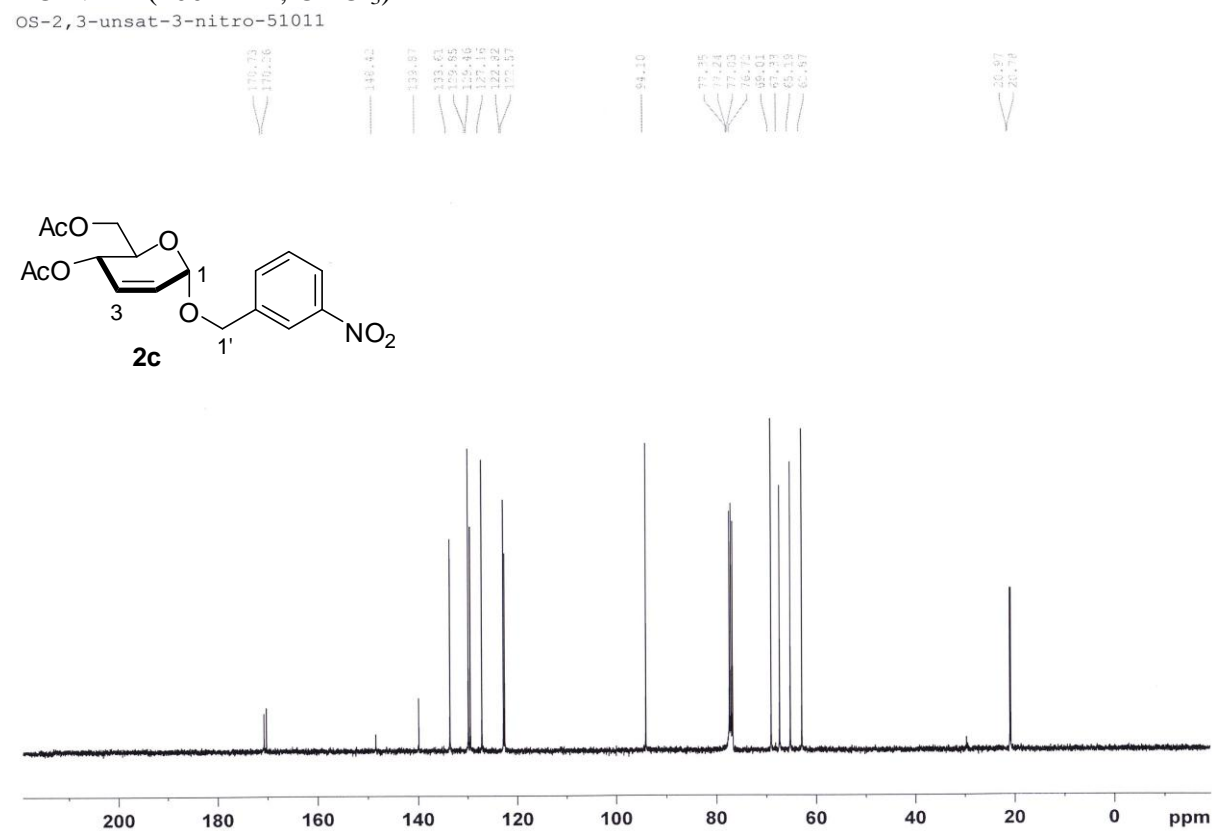


3-Nitrobenzyl-4,6-di-O-acetyl-2,3-dideoxy- α -D-erythro-hex-2-enopyranoside (**2c**):

$^1\text{H-NMR}$ (400 MHz, CDCl_3)

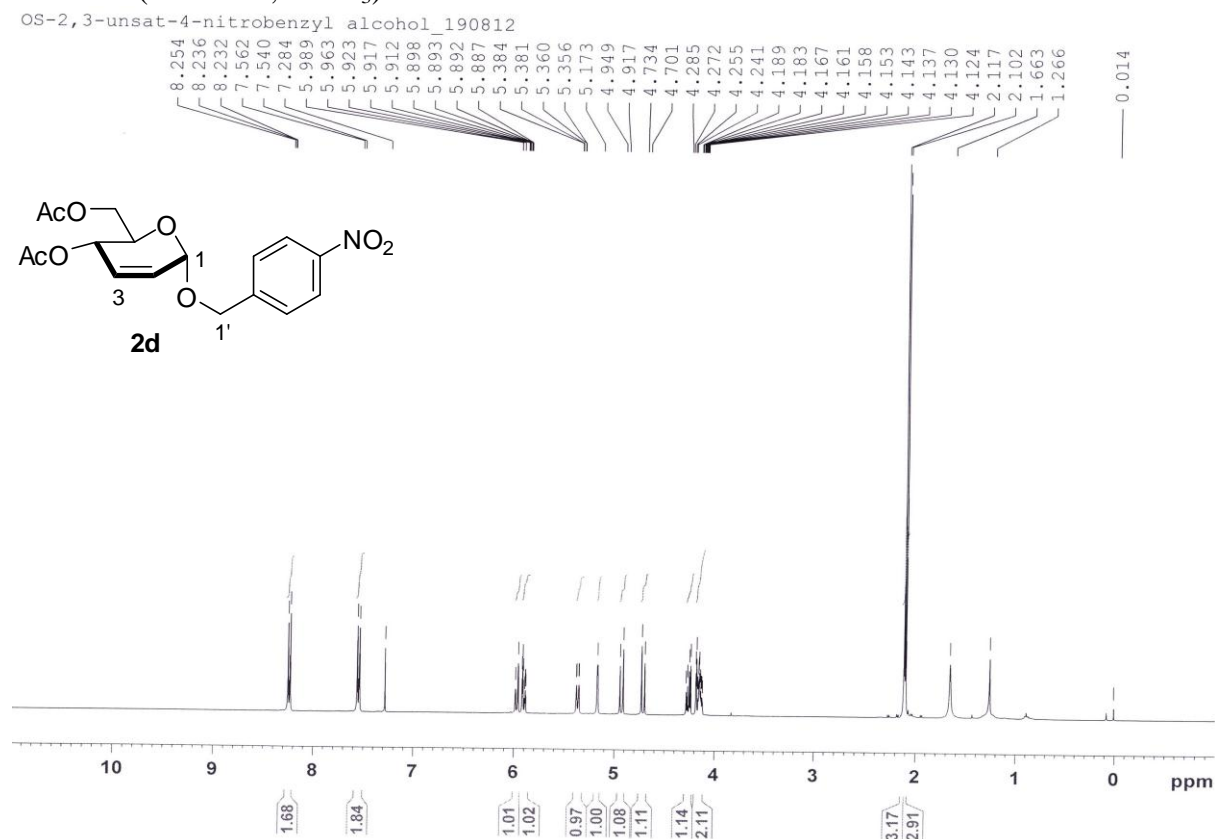


$^{13}\text{C-NMR}$ (100 MHz, CDCl_3)

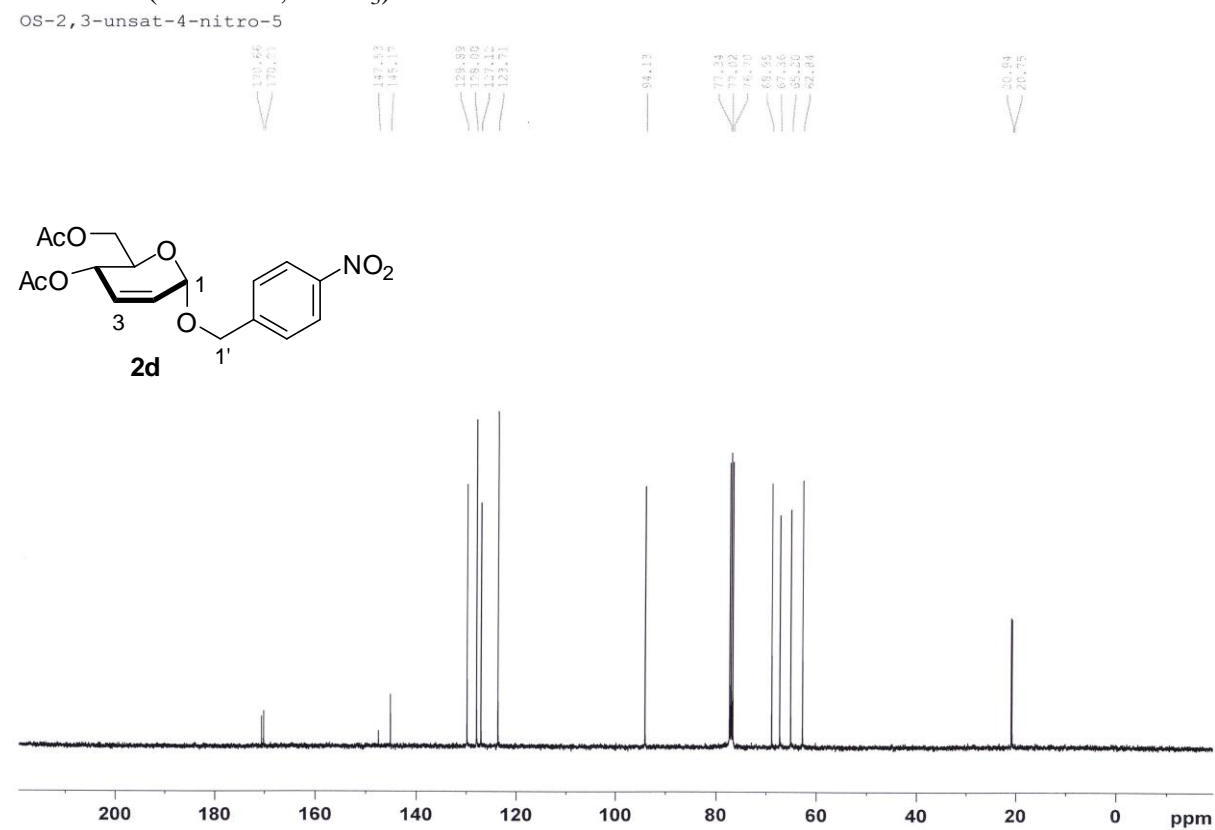


4-Nitrobenzyl-4,6-di-O-acetyl-2,3-dideoxy- α -D-erythro-hex-2-enopyranoside (2d):

$^1\text{H-NMR}$ (400 MHz, CDCl_3)



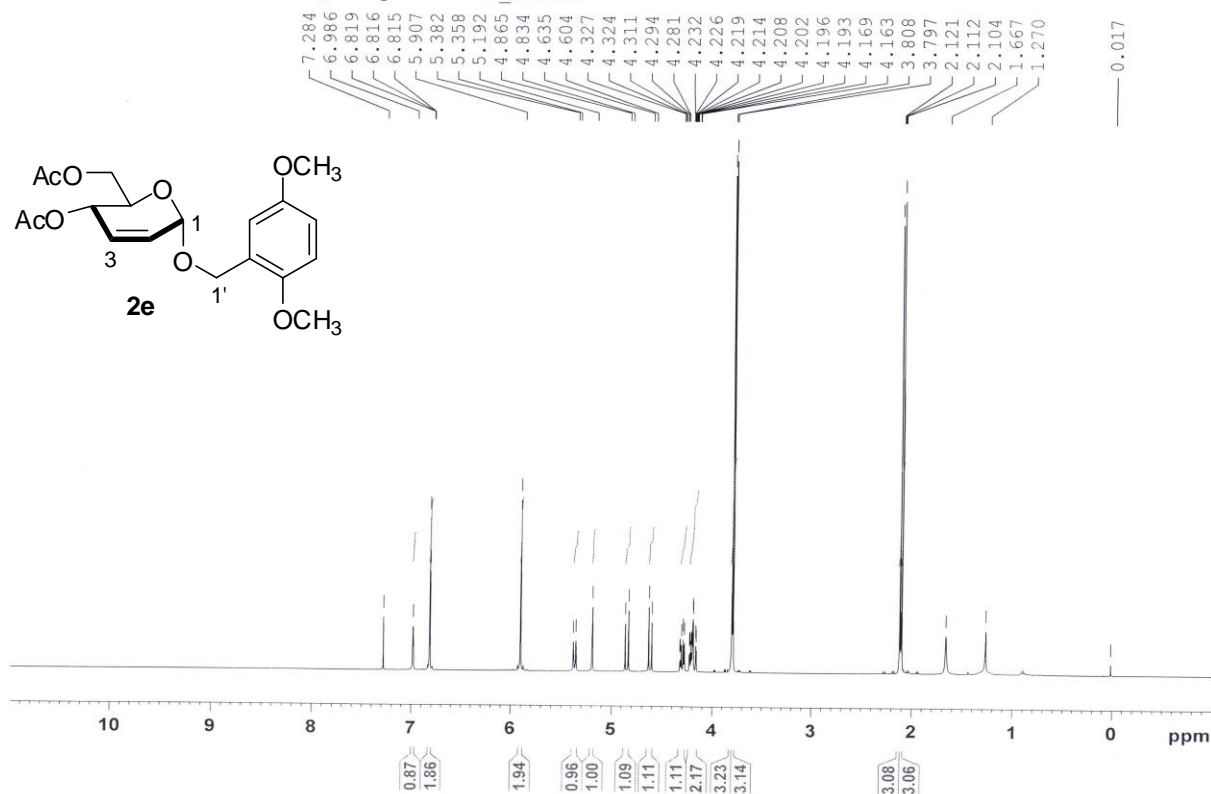
$^{13}\text{C-NMR}$ (100 MHz, CDCl_3)



2,5-Dimethoxybenzyl-4,6-di-O-acetyl-2,3-dideoxy- α -D-erythro-hex-2-enopyranoside (2e):

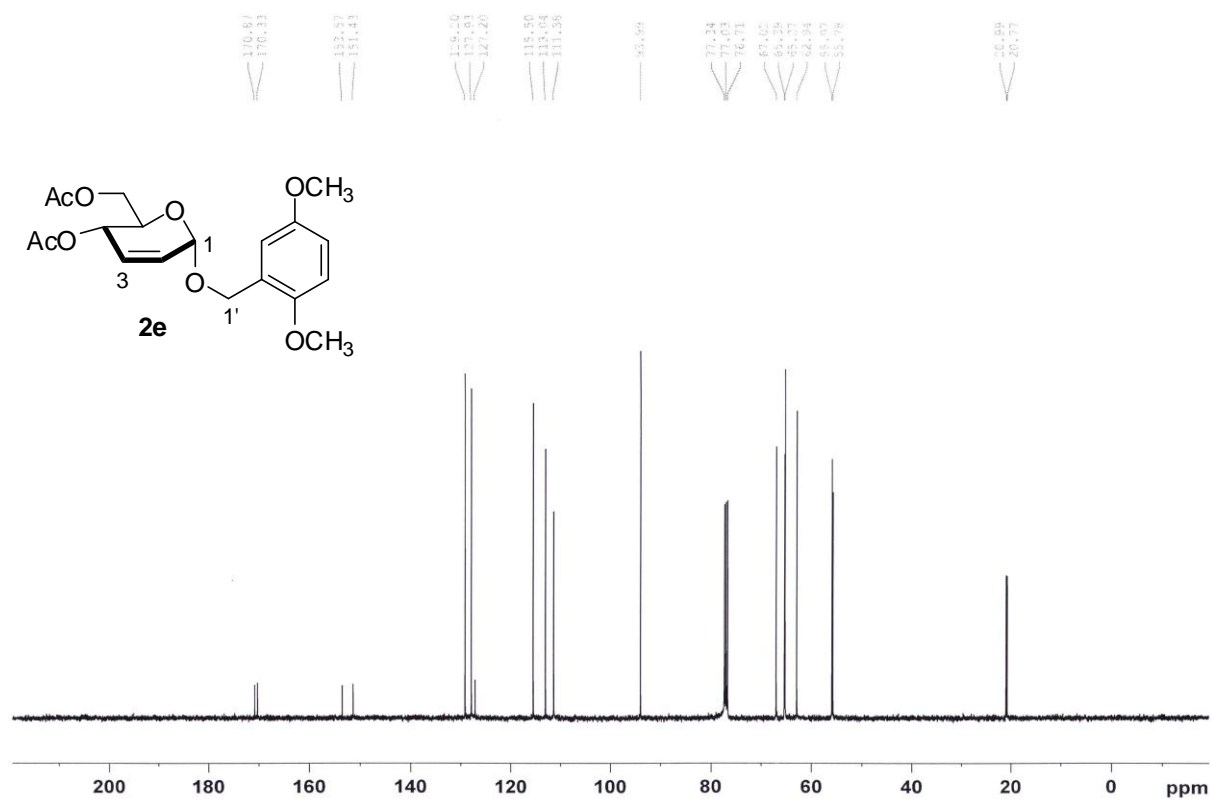
$^1\text{H-NMR}$ (400 MHz, CDCl_3)

OS-2,3-unsat-2,5-dimethoxybenzyl alcohol_190812



$^{13}\text{C-NMR}$ (100 MHz, CDCl_3)

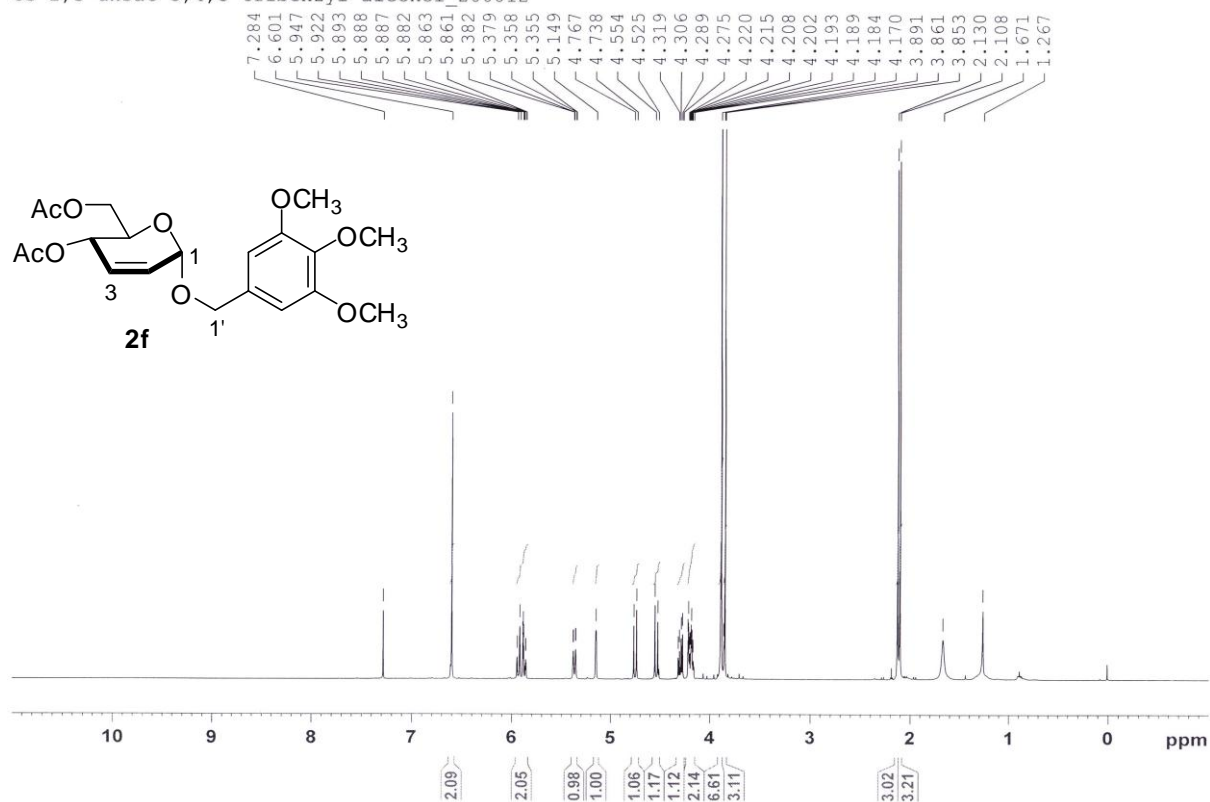
OS-2,3-unsat-2,5-dimethoxy-61011



3,4,5-Trimethoxybenzyl-4,6-di-O-acetyl-2,3-dideoxy- α -D-erythro-hex-2-enopyranoside (**2f**):

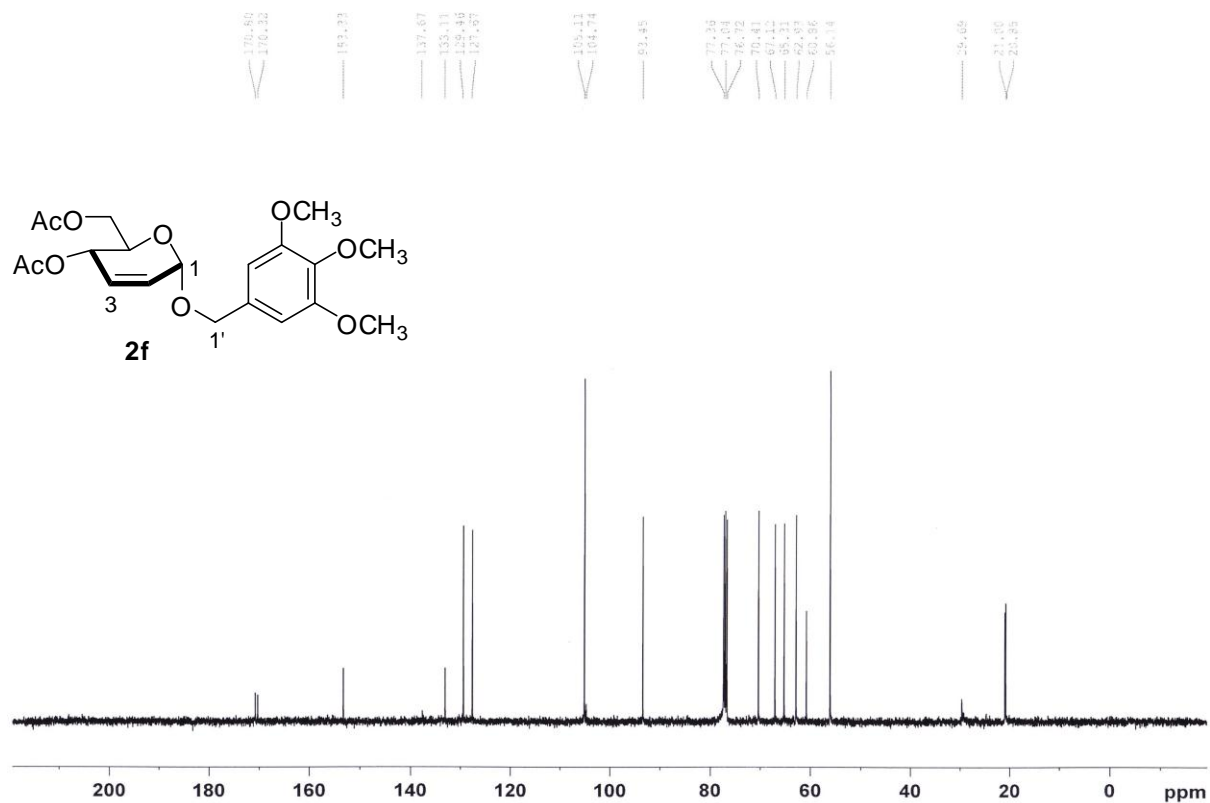
$^1\text{H-NMR}$ (400 MHz, CDCl_3)

OS-2,3-unsat-3,4,5-tribenzyl alcohol_200812



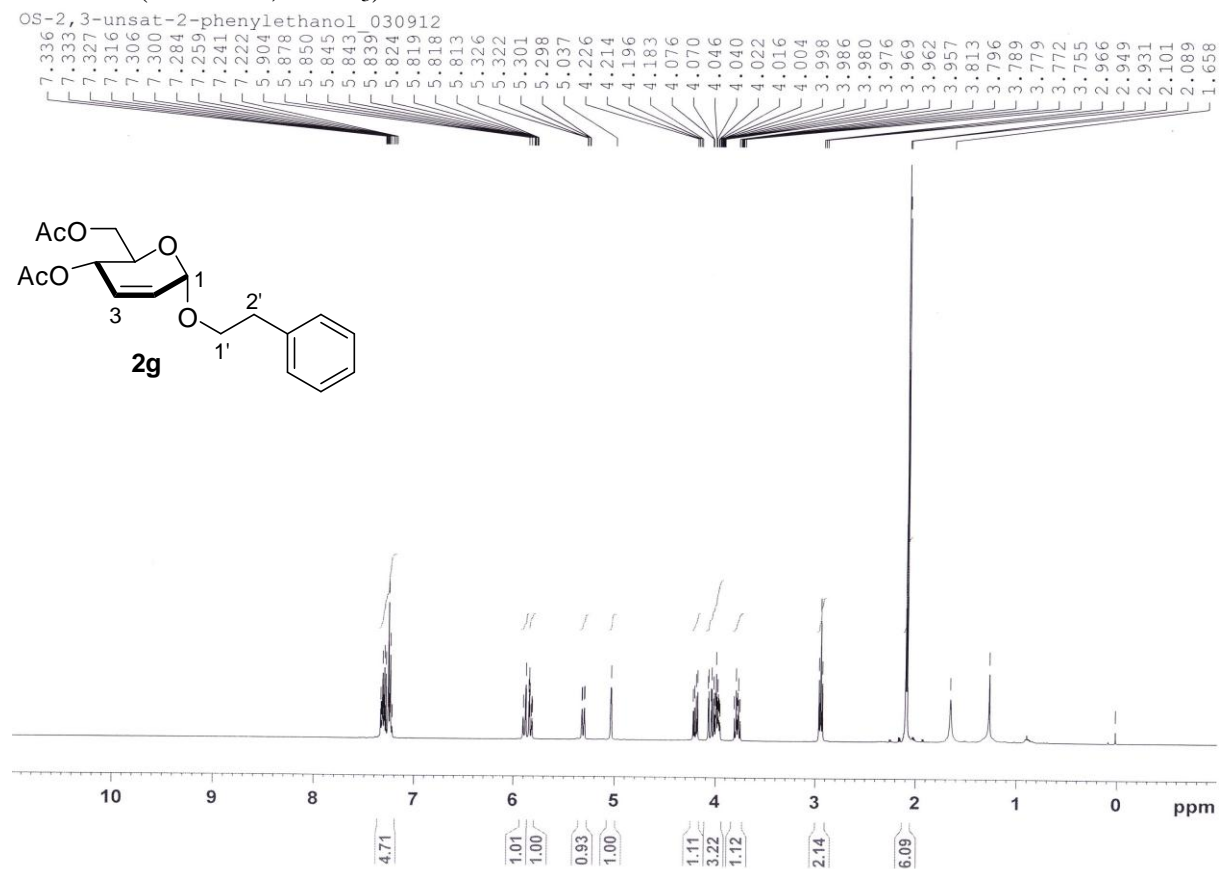
$^{13}\text{C-NMR}$ (100 MHz, CDCl_3)

OS-2,3-unsat-3,4,5-trimethoxy-71011

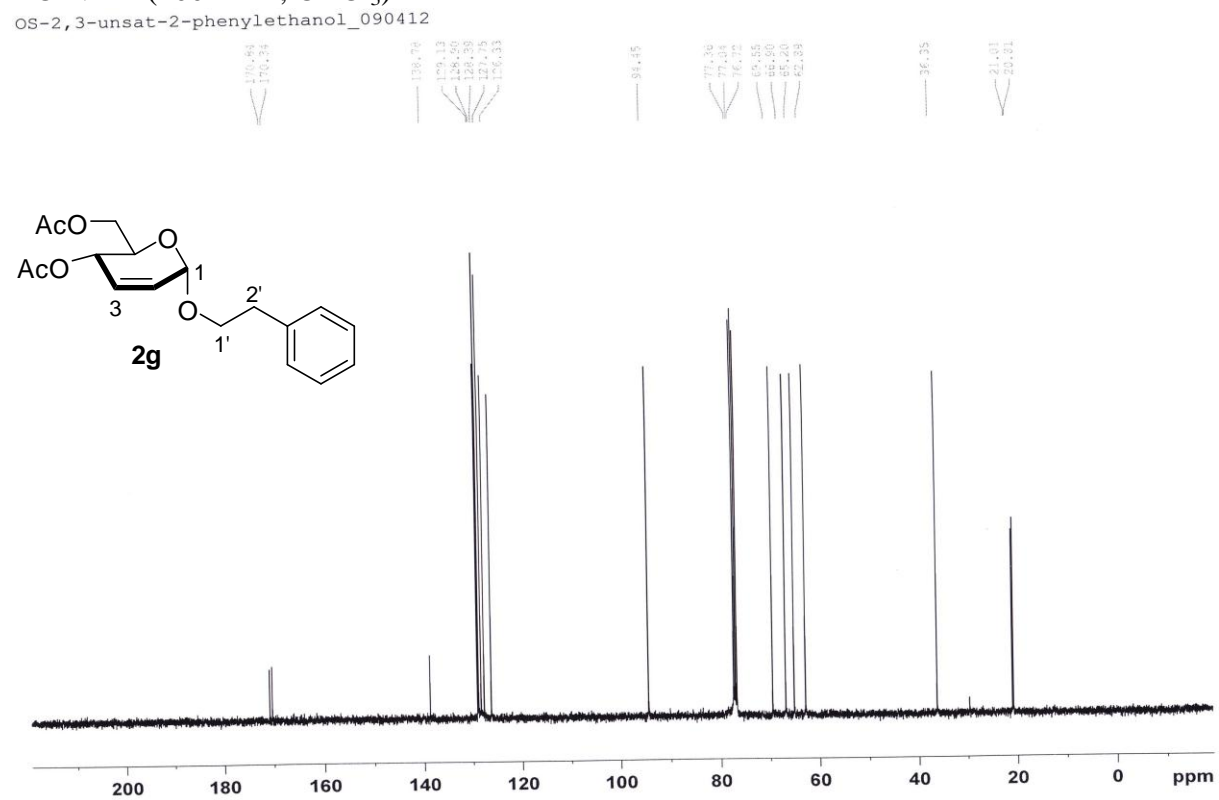


2-Phenylethyl-4,6-di-O-acetyl-2,3-dideoxy- α -D-erythro-hex-2-enopyranoside (2g):

$^1\text{H-NMR}$ (400 MHz, CDCl_3)

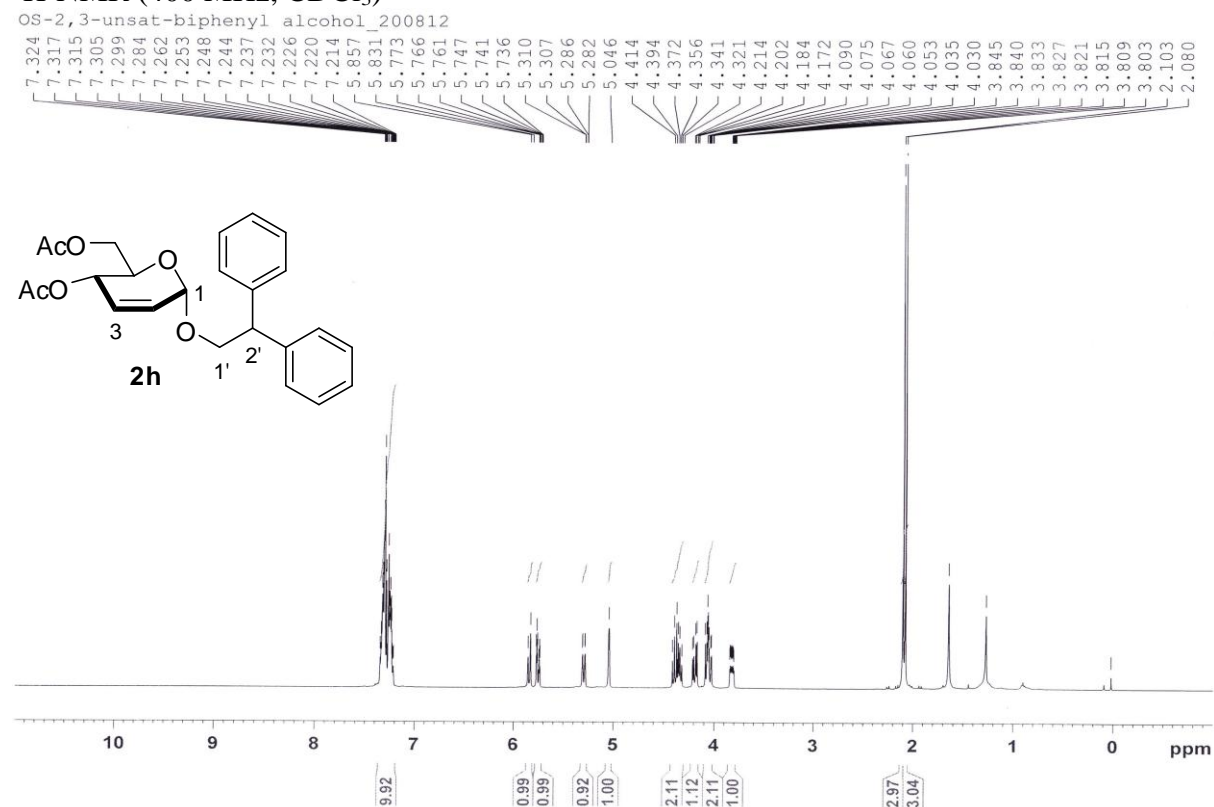


$^{13}\text{C-NMR}$ (100 MHz, CDCl_3)

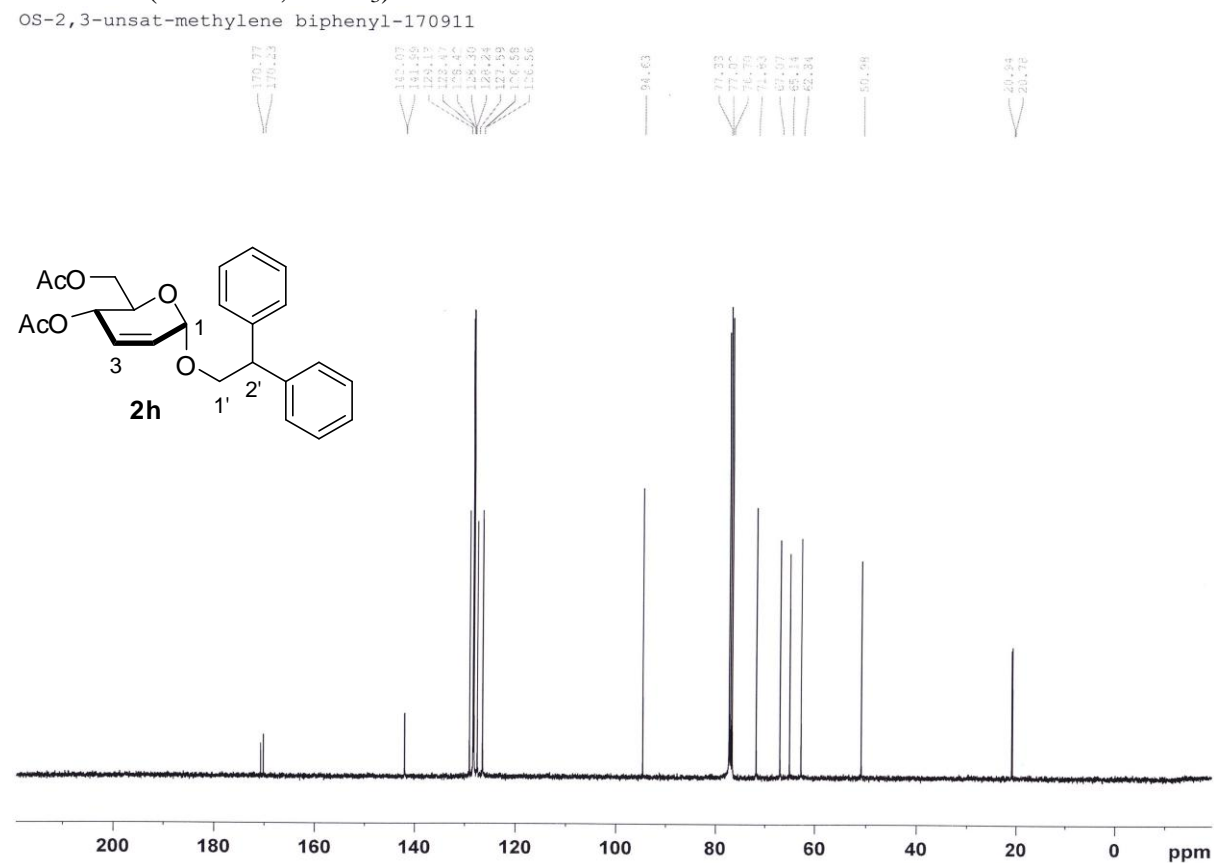


2,2-Diphenylethyl-4,6-di-O-acetyl-2,3-dideoxy- α -D-erythro-hex-2-enopyranoside (2h):

$^1\text{H-NMR}$ (400 MHz, CDCl_3)



$^{13}\text{C-NMR}$ (100 MHz, CDCl_3)



1-Phenylpropyl-4,6-di-O-acetyl-2,3-dideoxy- α -D-erythro-hex-2-enopyranoside (2i):

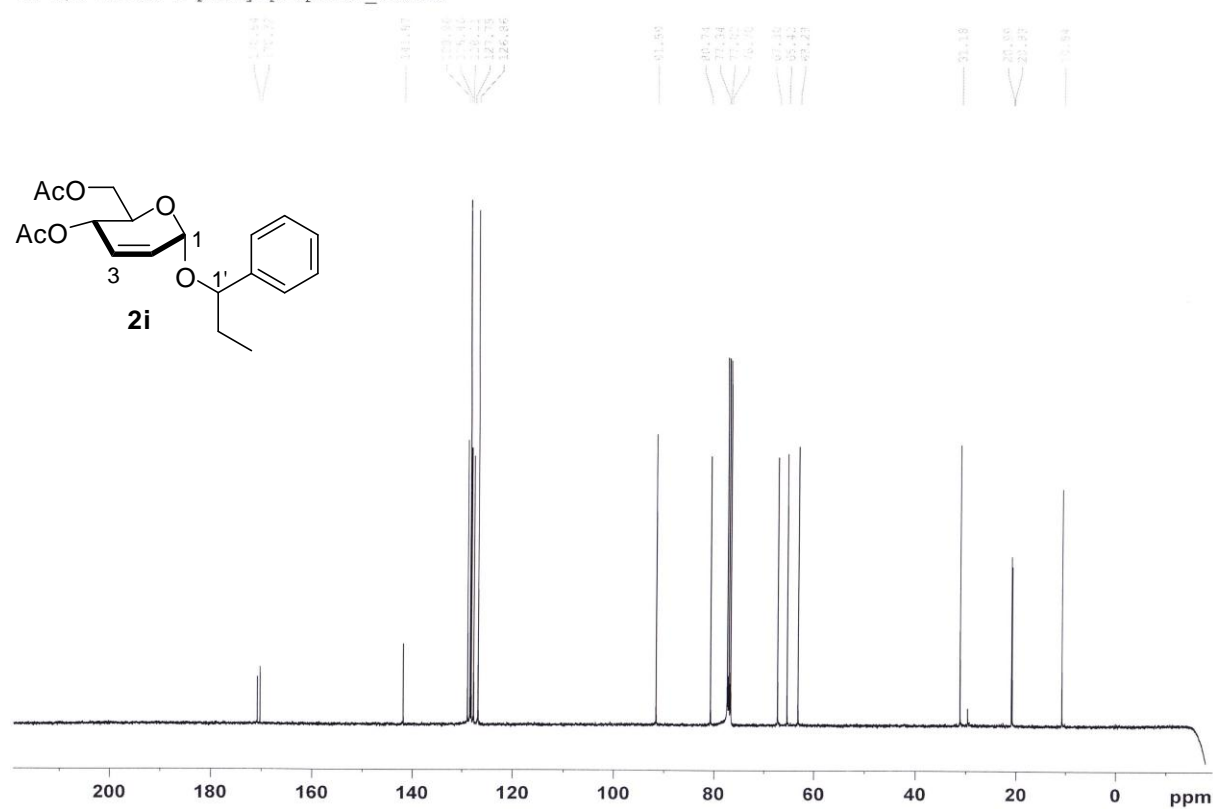
$^1\text{H-NMR}$ (400 MHz, CDCl_3)

OS-2,3-unsat-1-phenylpropanol_030912



$^{13}\text{C-NMR}$ (100 MHz, CDCl_3)

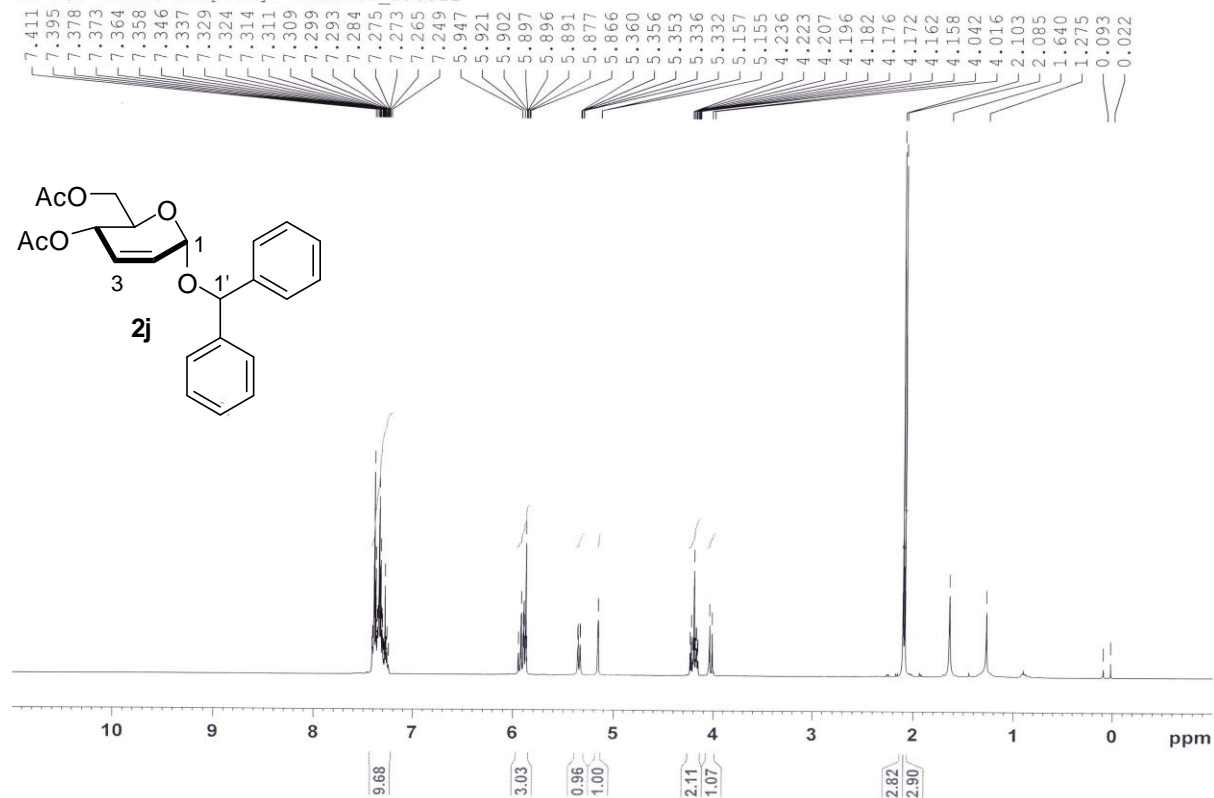
OS-2,3-unsat-1-phenylpropanol_250412



Benzhydryl-4,6-di-O-acetyl-2,3-dideoxy- α -D-erythro-hex-2-enopyranoside (2j):

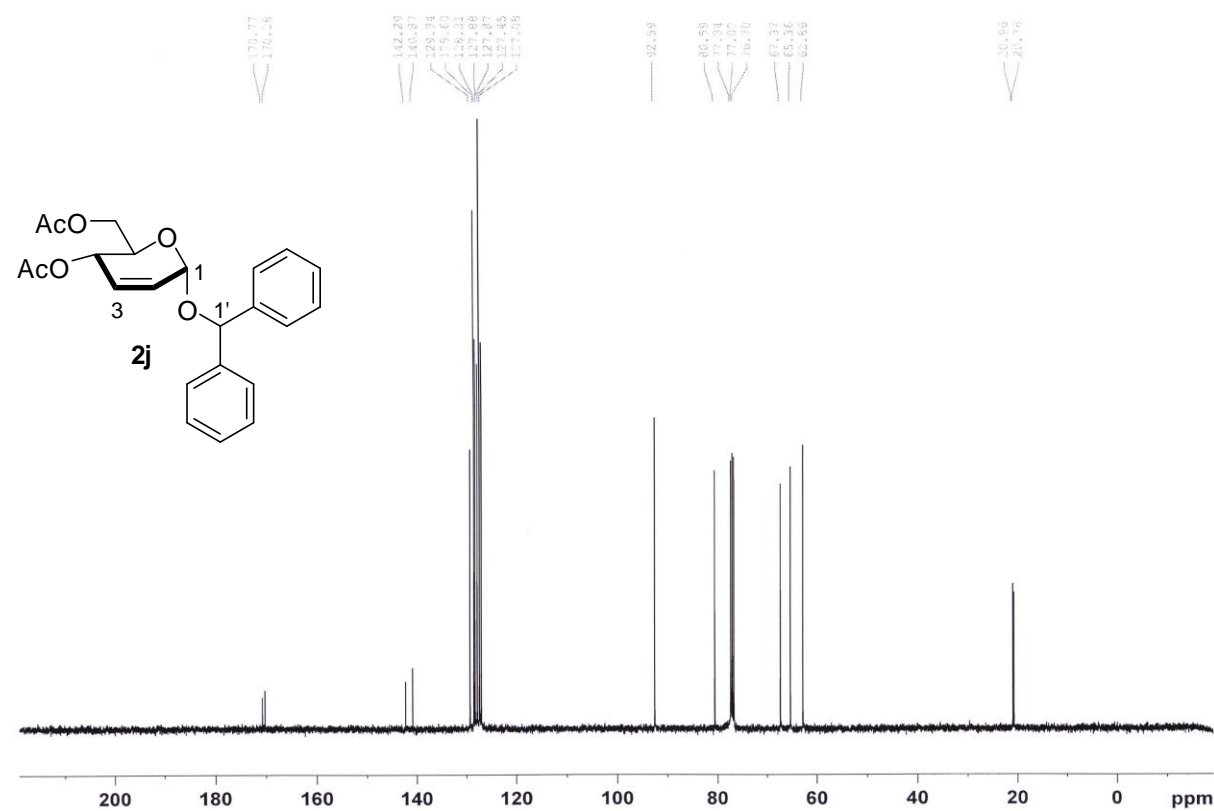
$^1\text{H-NMR}$ (400 MHz, CDCl_3)

OS-2,3-unsat-bisphenyl alcohol_190812



$^{13}\text{C-NMR}$ (100 MHz, CDCl_3)

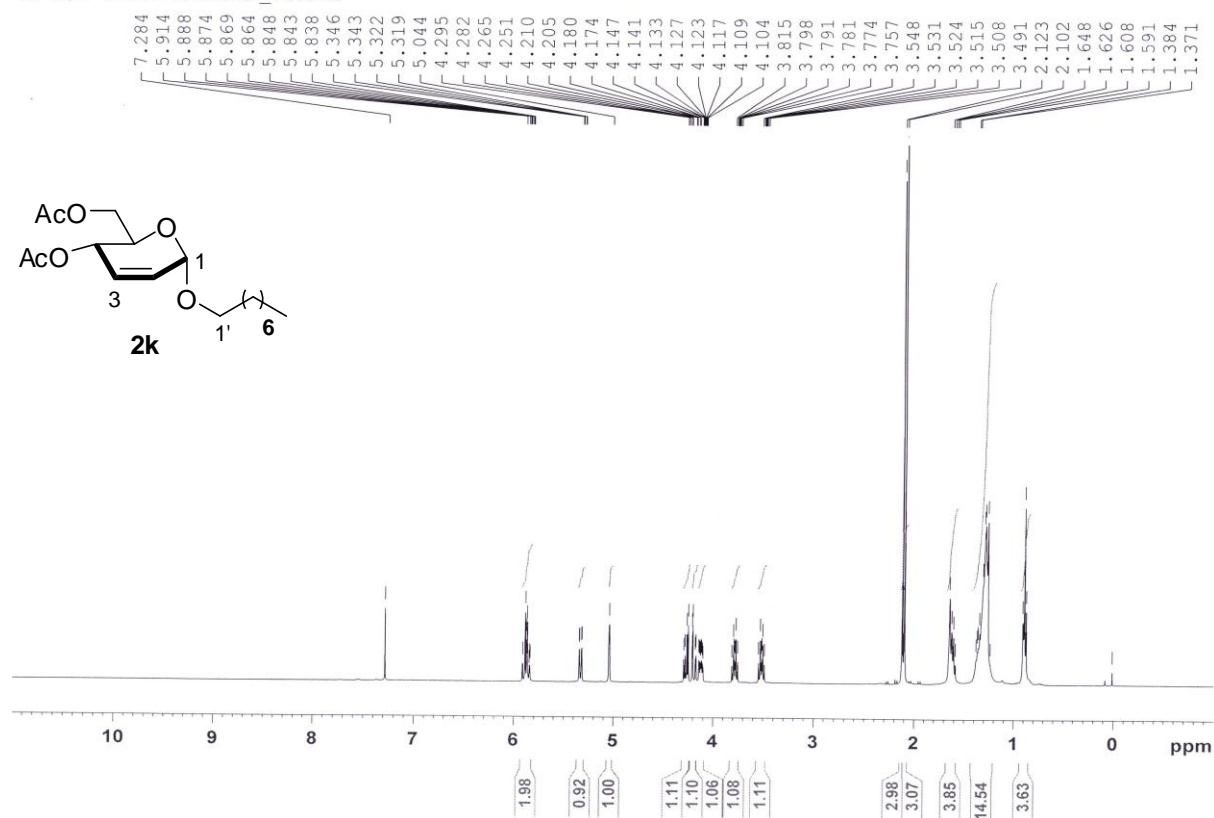
OS-2,3-unsat-biphenyl-150911



2-Octyl-4,6-di-O-acetyl-2,3-dideoxy- α -D-erythro-hex-2-enopyranoside (2k):

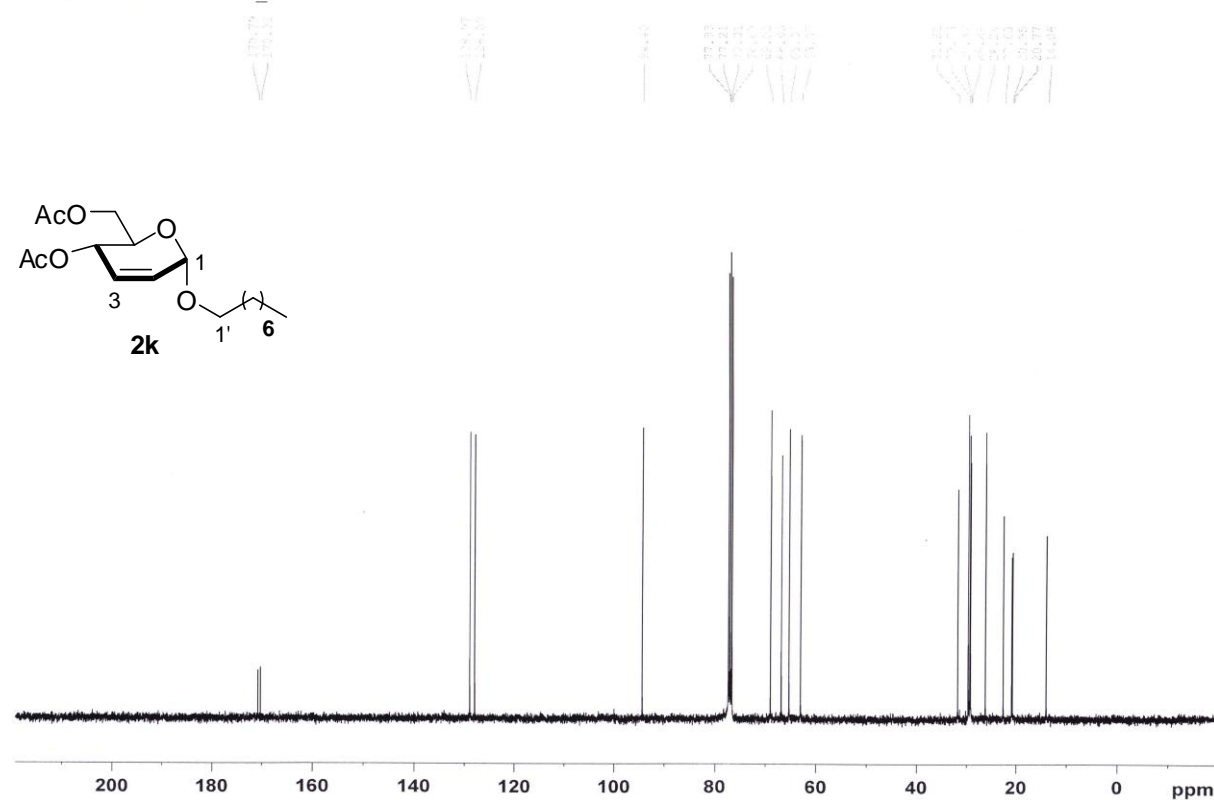
$^1\text{H-NMR}$ (400 MHz, CDCl_3)

OS-2,3-unsat-octanol_200812



$^{13}\text{C-NMR}$ (100 MHz, CDCl_3)

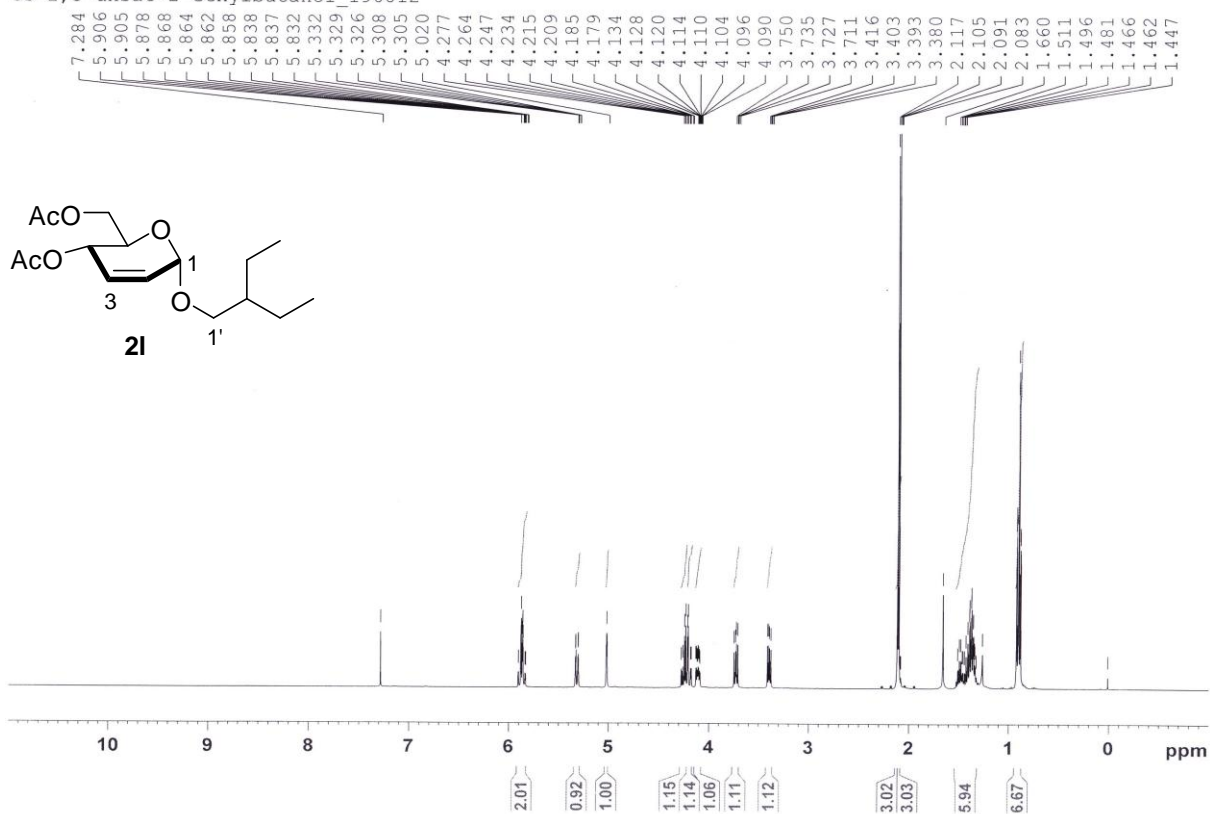
OS-2,3-unsat-octanol_180312



2-Ethylbutyl-4,6-di-O-acetyl-2,3-dideoxy- α -D-erythro-hex-2-enopyranoside (21):

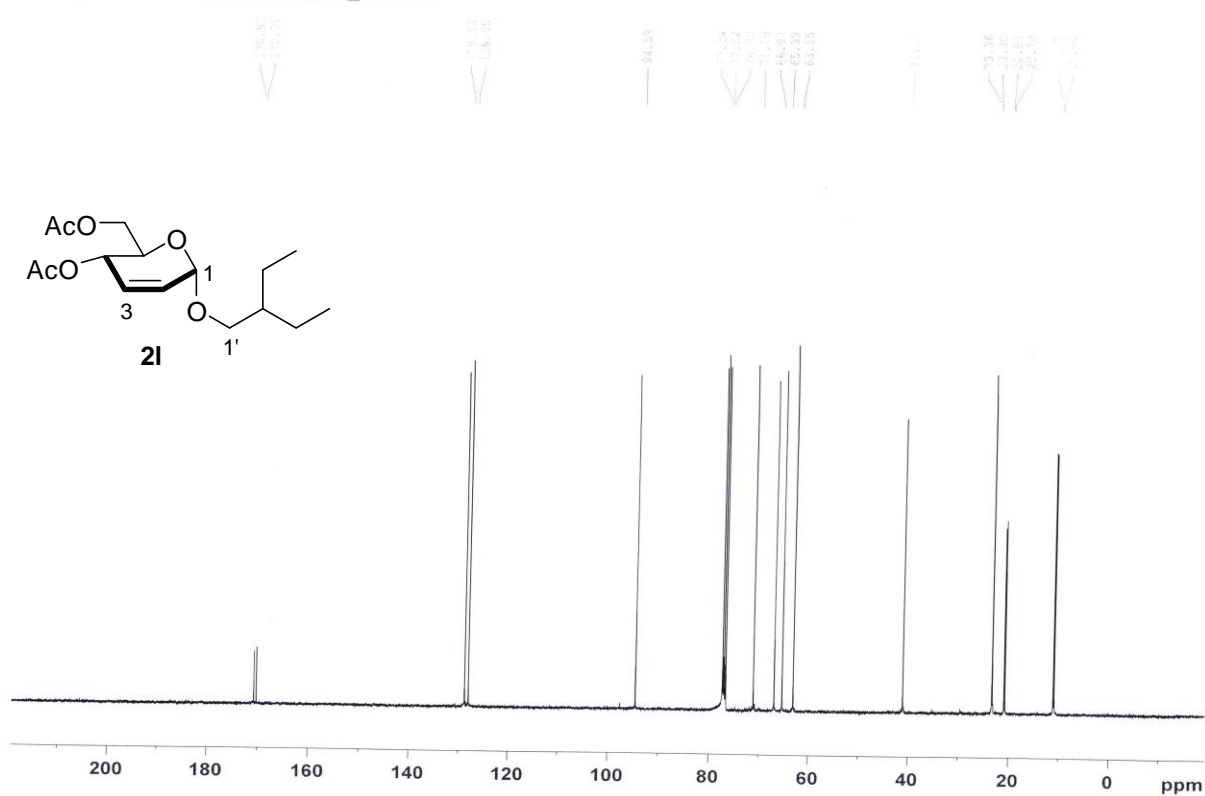
$^1\text{H-NMR}$ (400 MHz, CDCl_3)

OS-2,3-unsat-2-ethylbutanol_190812



$^{13}\text{C-NMR}$ (100 MHz, CDCl_3)

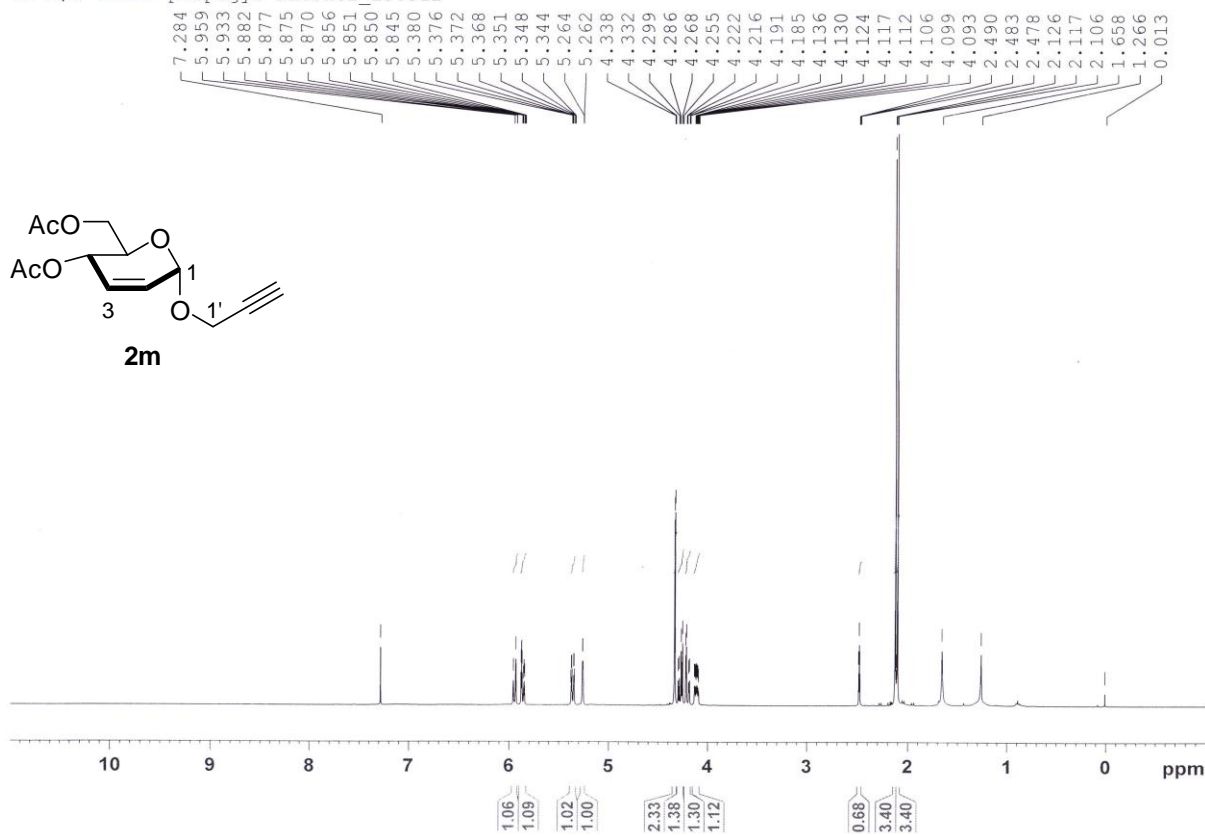
OS-2,3-unsat-2-ethylbutanol_160612



1-Propynyl-4,6-di-O-acetyl-2,3-dideoxy- α -D-erythro-hex-2-enopyranoside (2m):

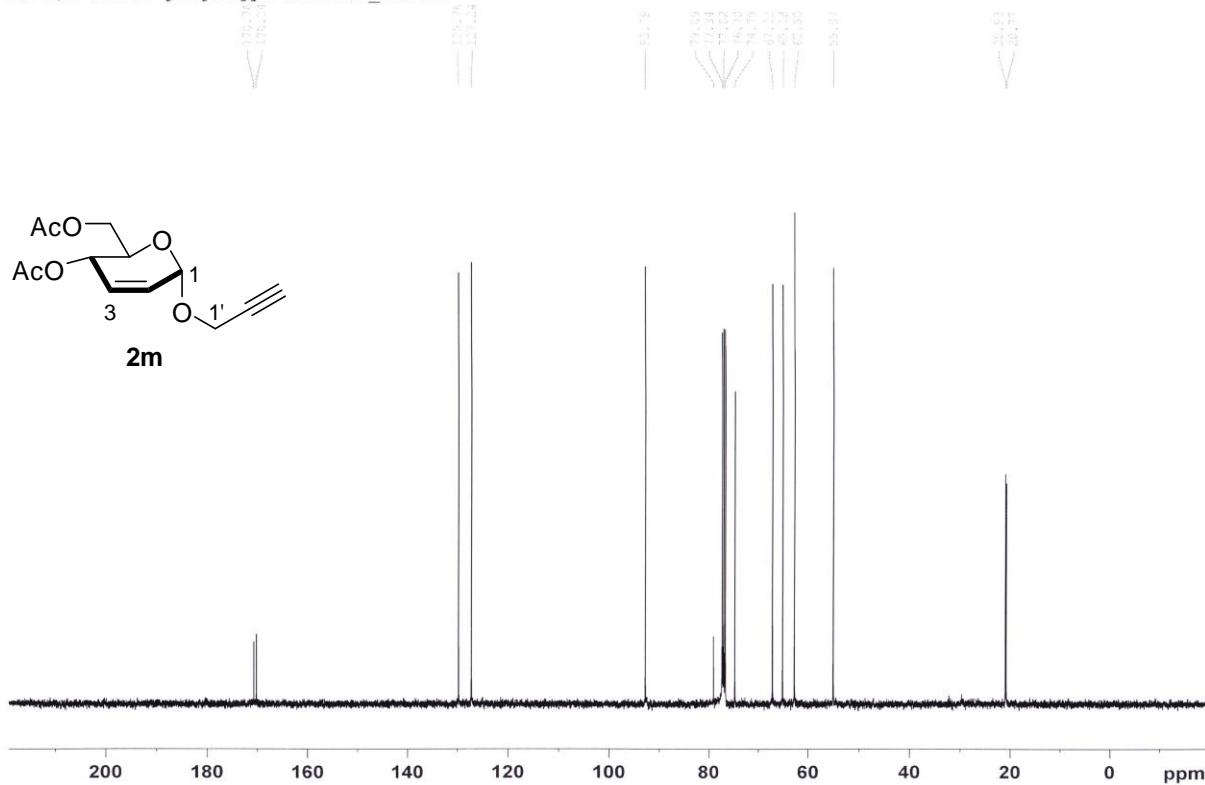
$^1\text{H-NMR}$ (400 MHz, CDCl_3)

OS-2,3-unsat-propargyl_alcohol_190812



$^{13}\text{C-NMR}$ (100 MHz, CDCl_3)

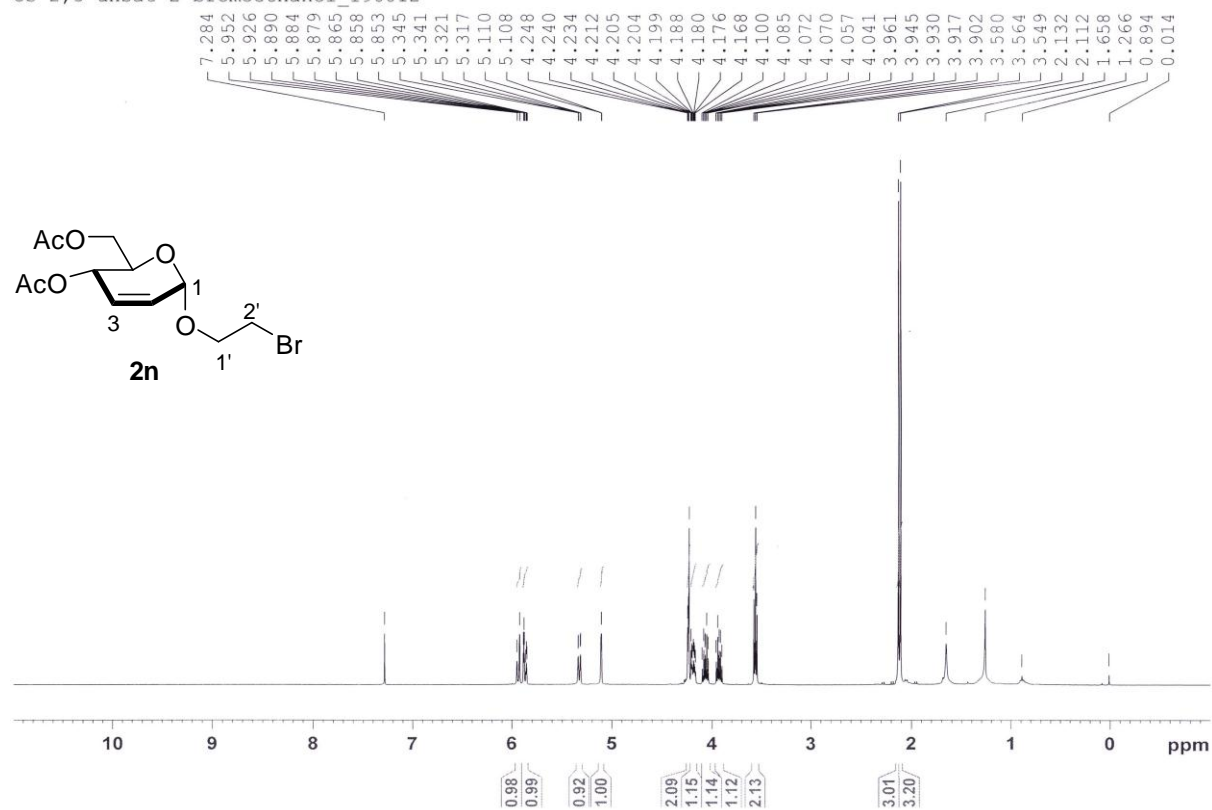
OS-2,3-unsat-ptopargyl_alcohol_250412



2-Bromoethyl-4,6-di-O-acetyl-2,3-dideoxy- α -D-erythro-hex-2-enopyranoside (2n):

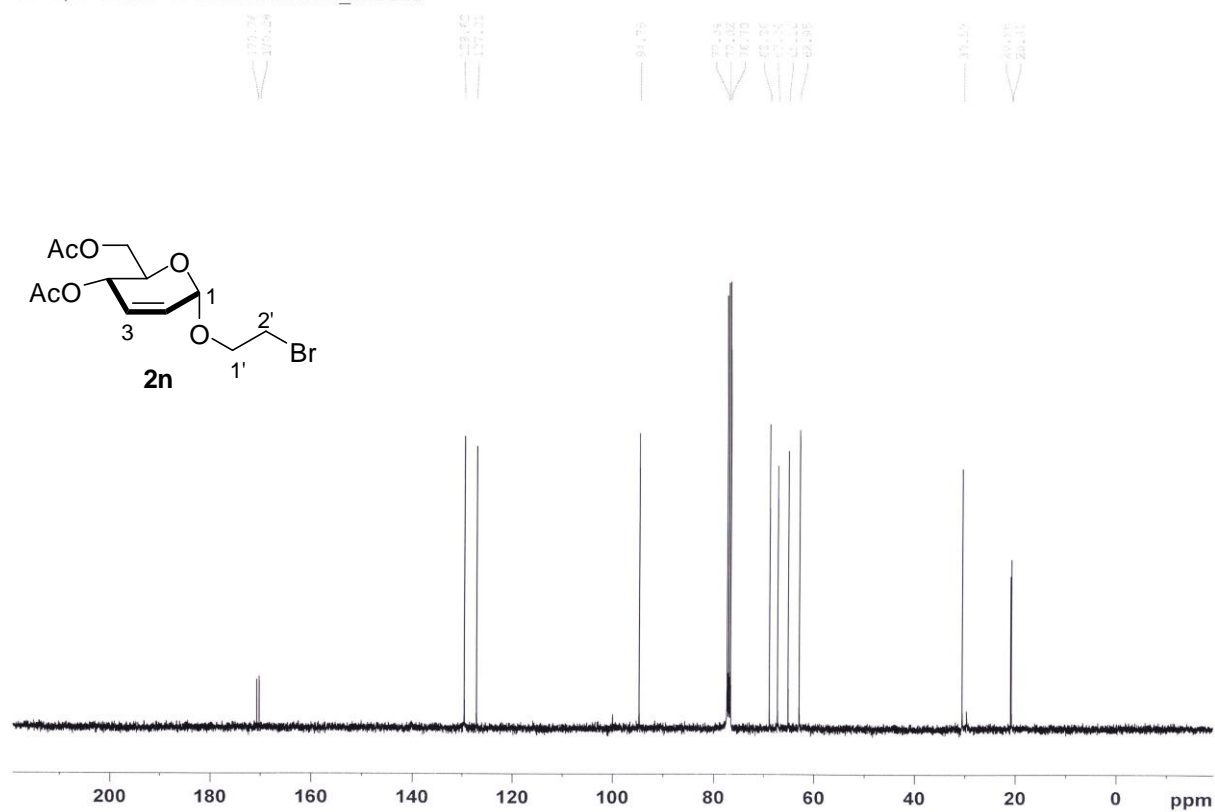
$^1\text{H-NMR}$ (400 MHz, CDCl_3)

OS-2,3-unsat-2-bromoethanol_190812



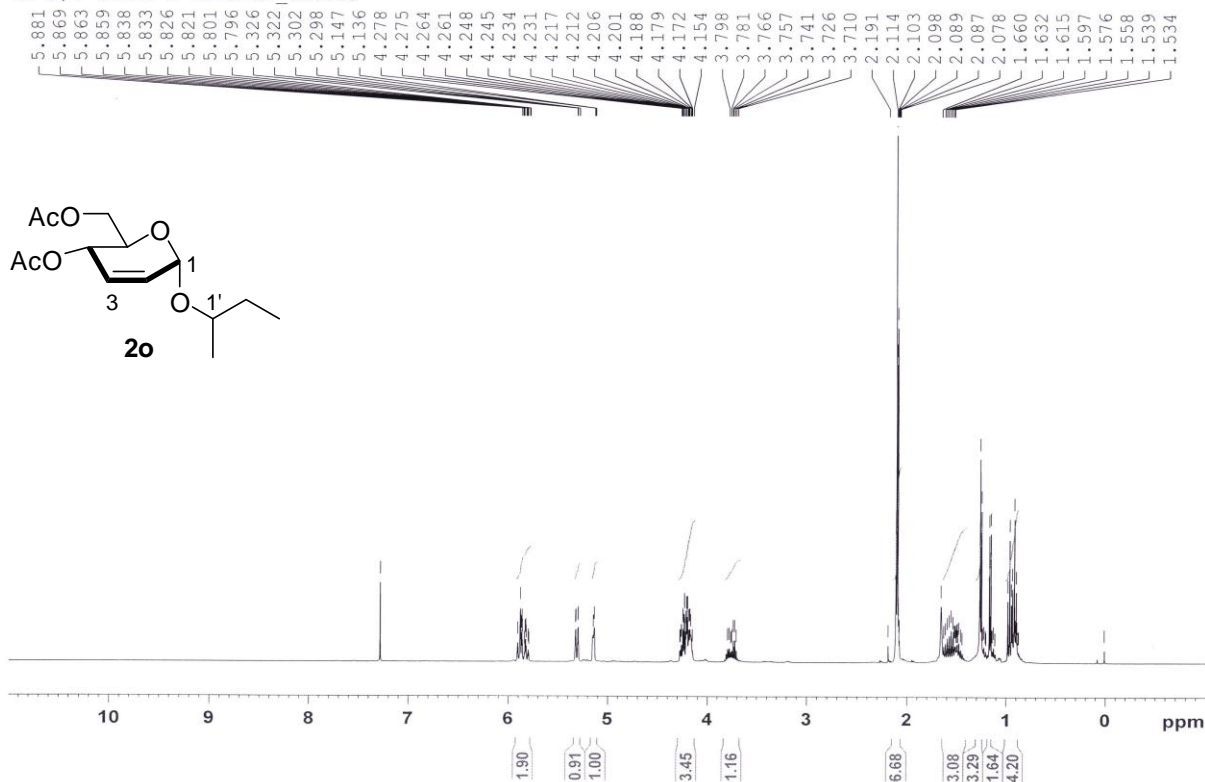
$^{13}\text{C-NMR}$ (100 MHz, CDCl_3)

OS-2,3-unsat-2-bromoethanol_310512

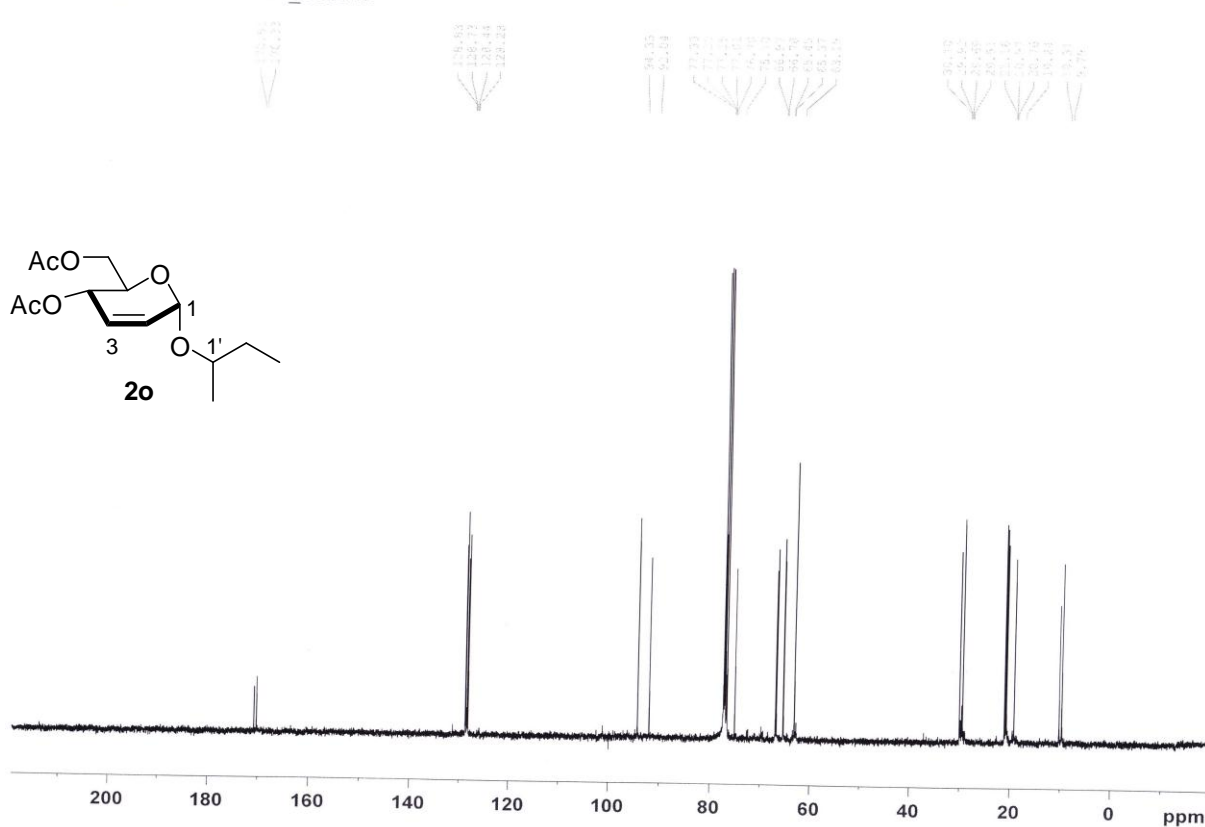


1-Methylpropyl-4,6-di-O-acetyl-2,3-dideoxy- α -D-erythro-hex-2-enopyranoside (2o):
 $^1\text{H-NMR}$ (400 MHz, CDCl_3)

OS-2,3-unsat-2-butanol_200812


 $^{13}\text{C-NMR}$ (100 MHz, CDCl_3)

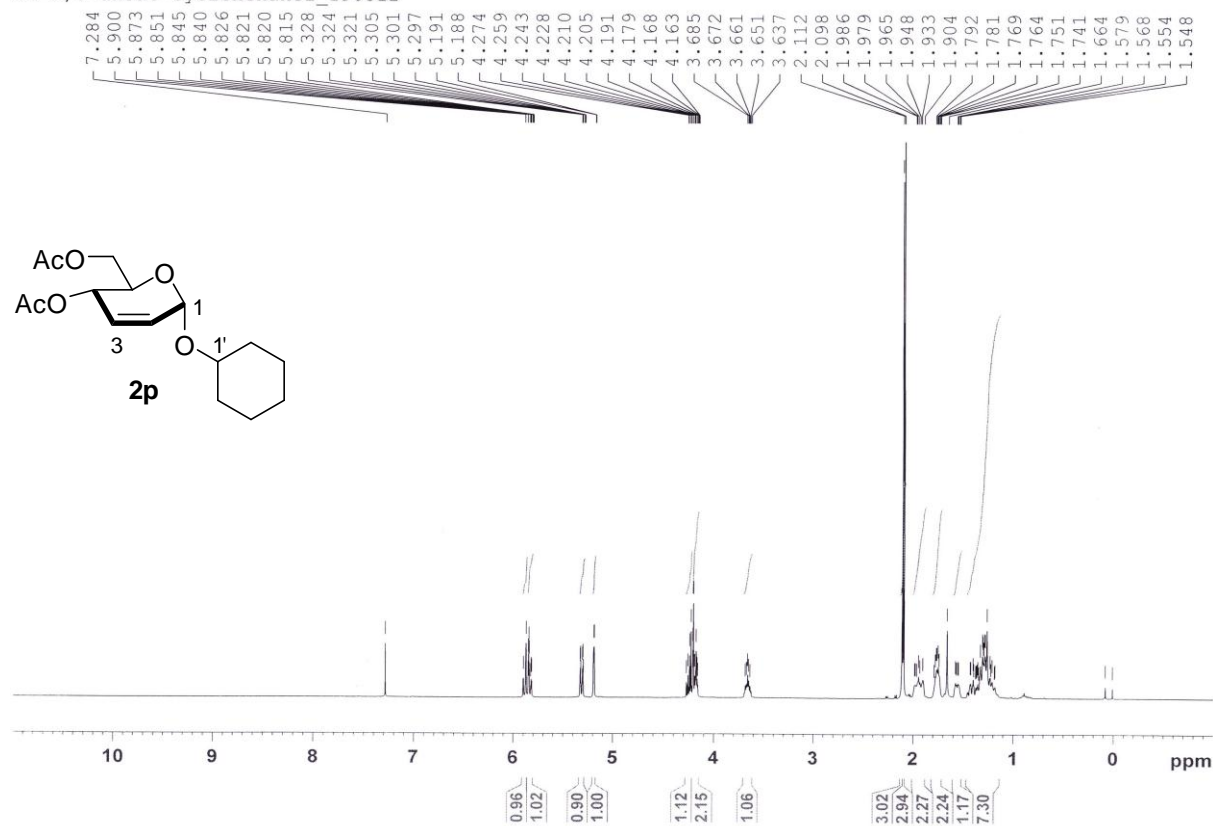
OS-2,3-unsat-2-butanol_160612



Cyclohexyl-4,6-di-O-acetyl-2,3-dideoxy- α -D-erythro-hex-2-enopyranoside (2p):

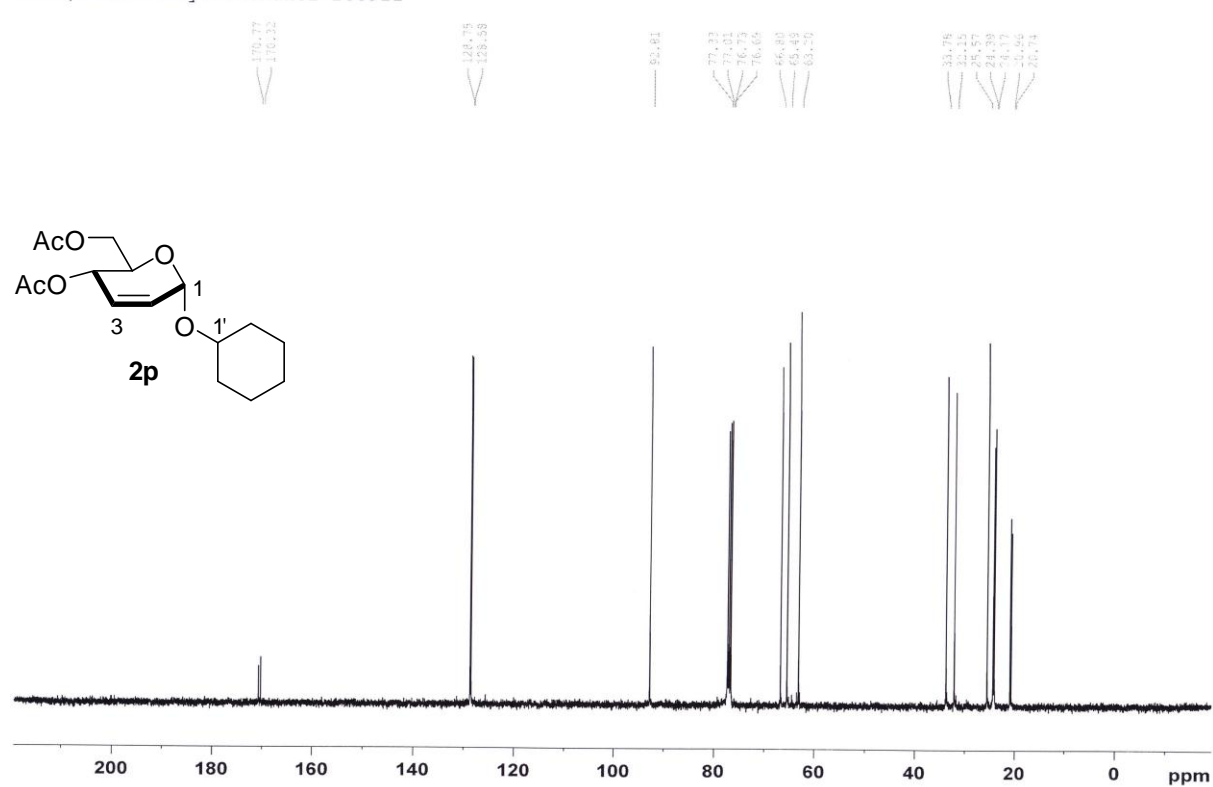
$^1\text{H-NMR}$ (400 MHz, CDCl_3)

OS-2,3-unsat-cyclohexanol_190812



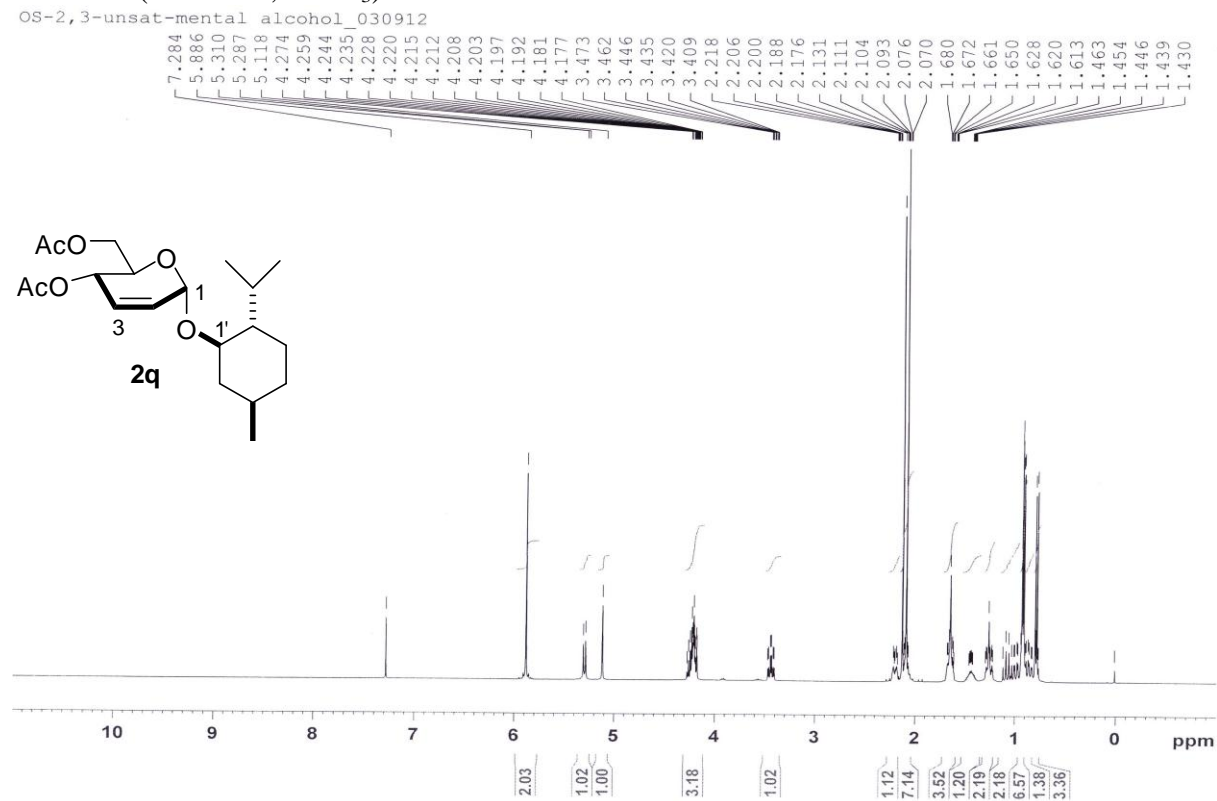
$^{13}\text{C-NMR}$ (100 MHz, CDCl_3)

OS-2,3-unsat-cyclohexanol-200911

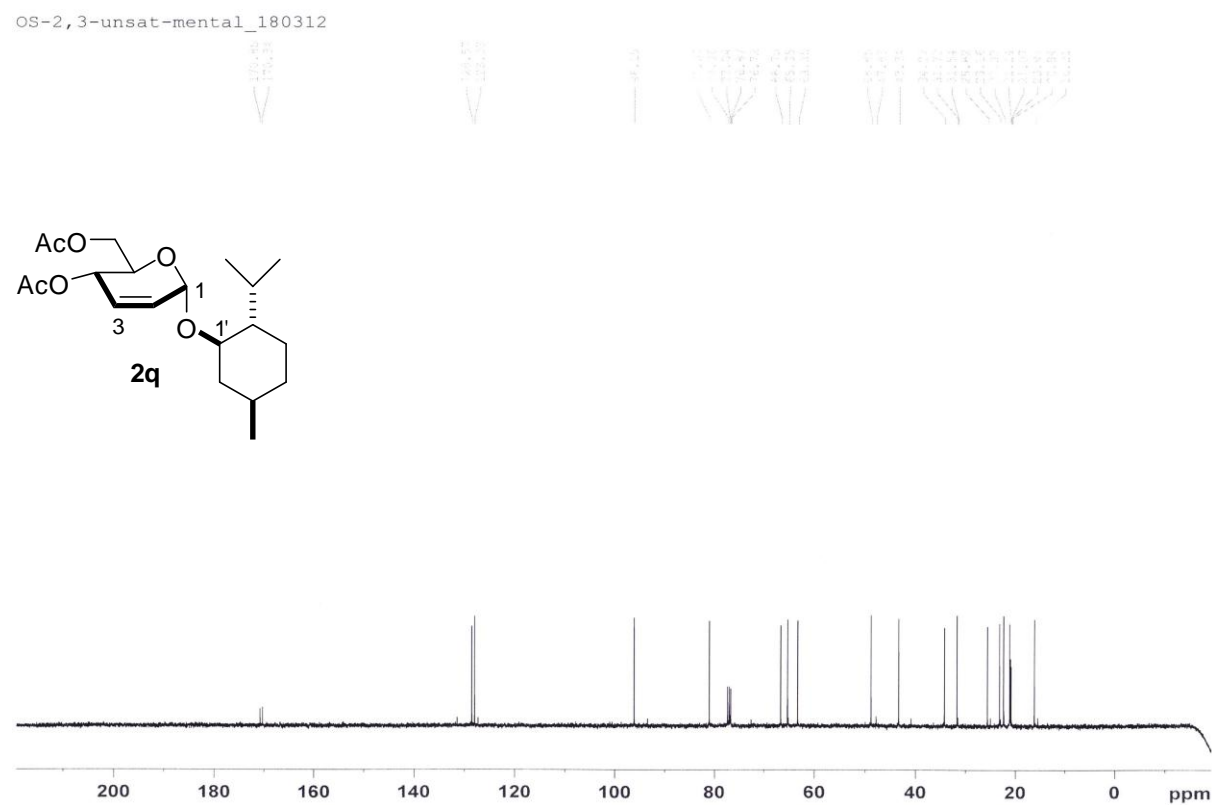


2-Isopropyl-5-methylcyclohexyl-4,6-di-O-acetyl-2,3-dideoxy- α -D-erythro-hex-2-enopyranoside (2q):

$^1\text{H-NMR}$ (400 MHz, CDCl_3)

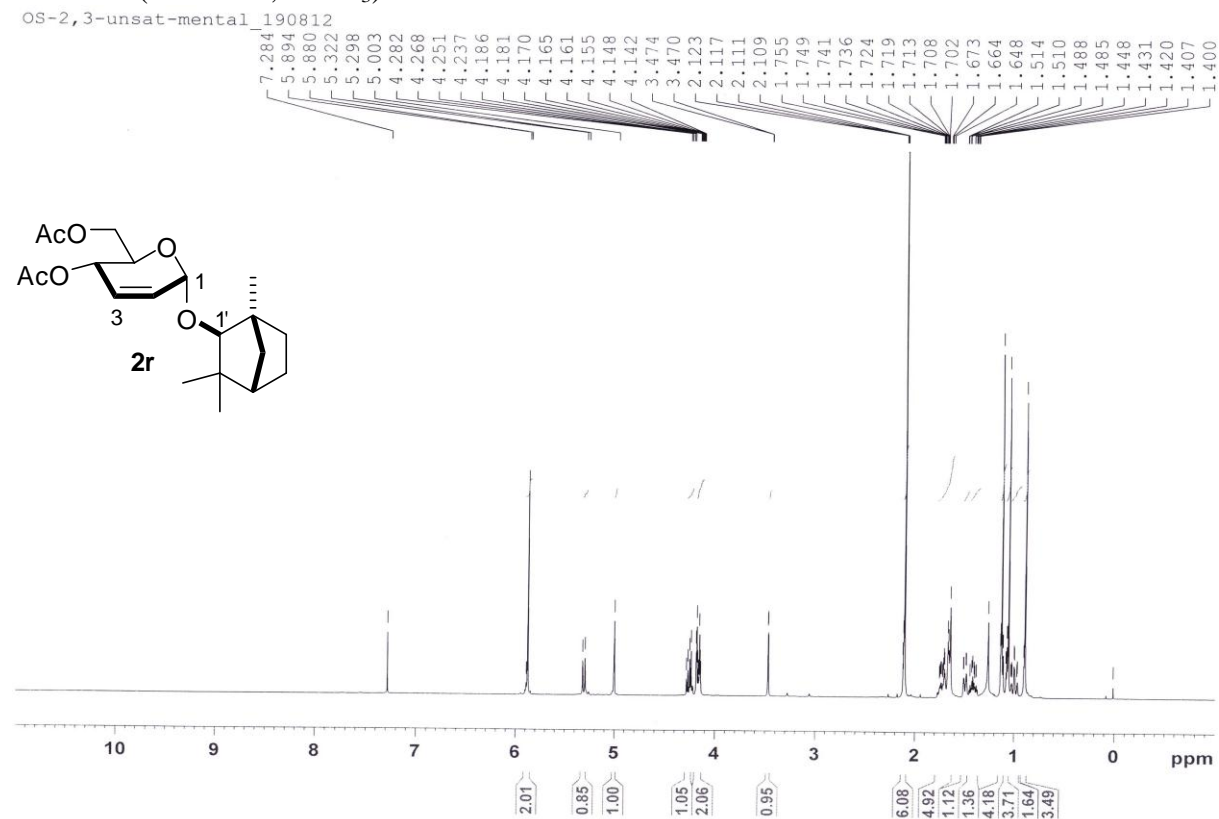


$^{13}\text{C-NMR}$ (100 MHz, CDCl_3)

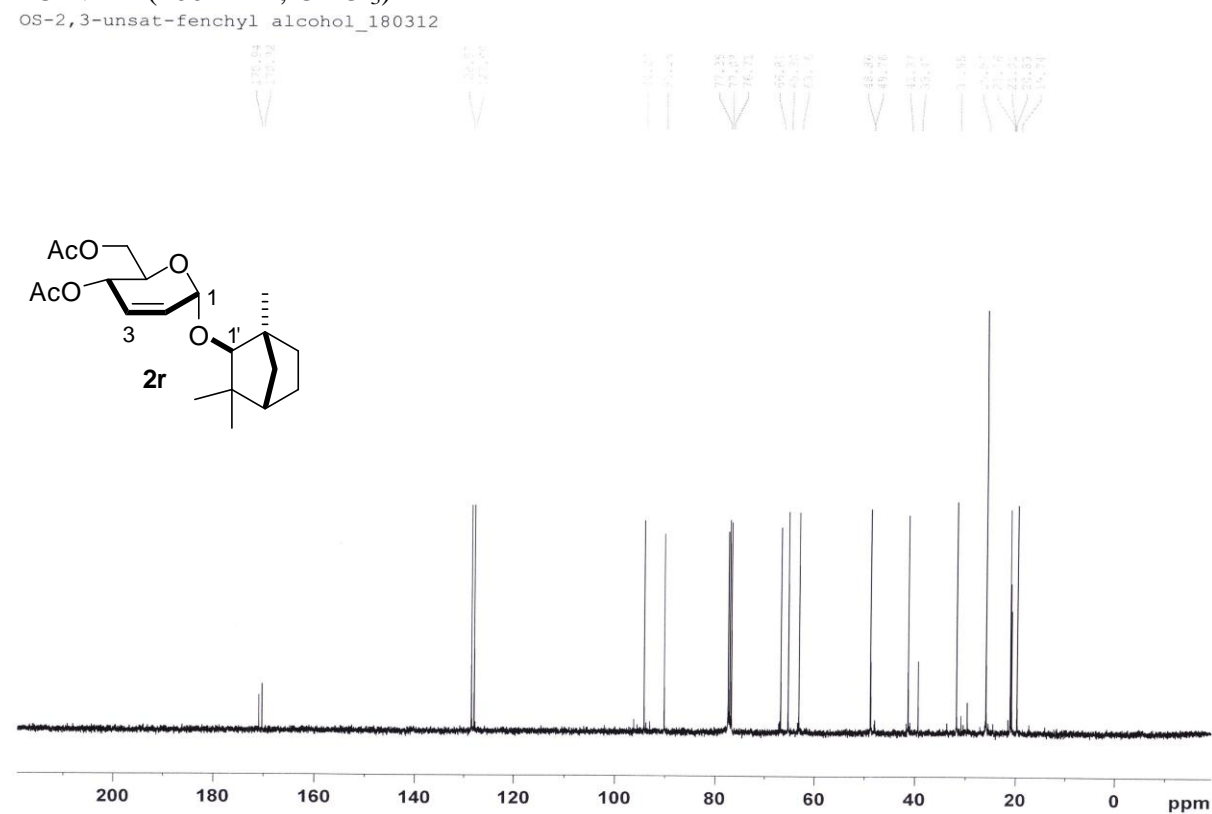


1,3,3-trimethylbicyclo[2.2.1]heptan-2-yl-4,6-di-O-acetyl-2,3-dideoxy- α -D-erythro-hex-2-enopyranoside (2r):

$^1\text{H-NMR}$ (400 MHz, CDCl_3)

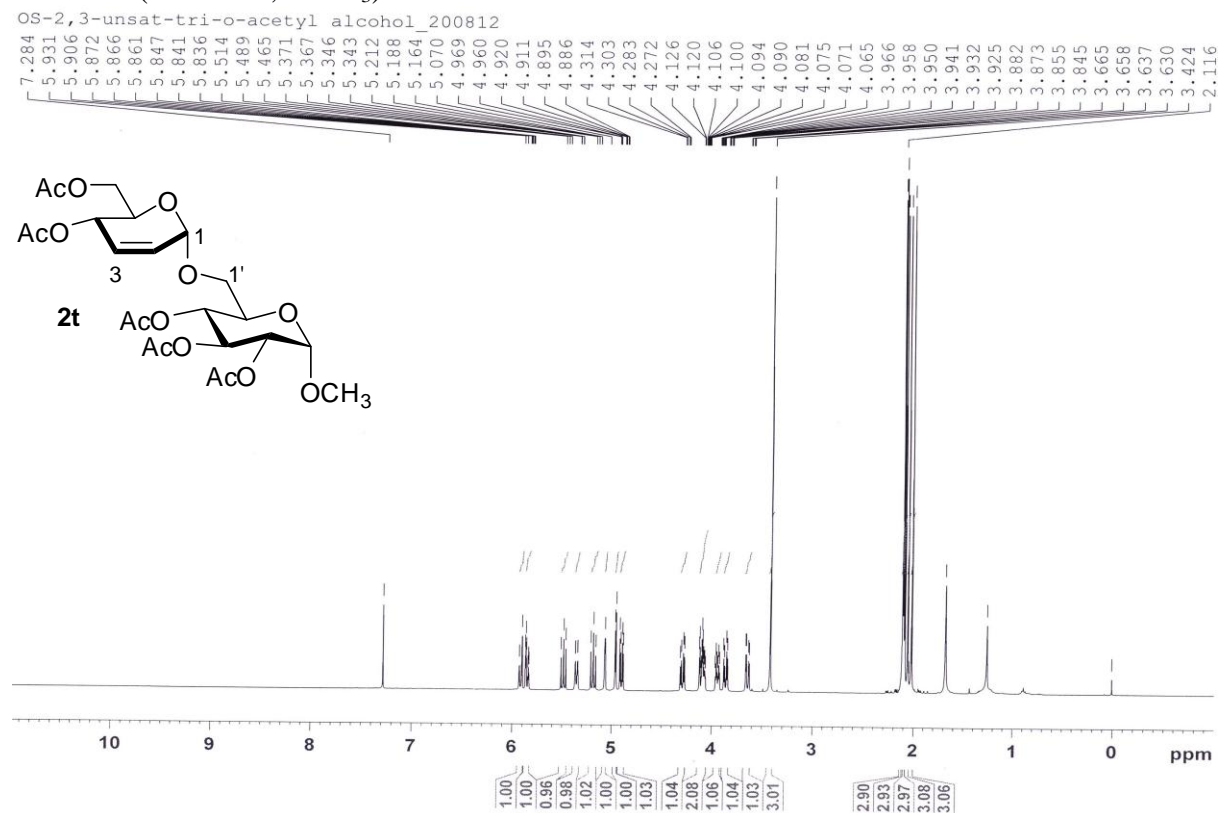


$^{13}\text{C-NMR}$ (100 MHz, CDCl_3)



Methyl-2,3,4-tri-*O*-acetyl-6-*O*-(4,6-di-*O*-acetyl-2,3-dideoxy- α -D-erythro-hex-2-enopyranosyl)- α -D-glucopyranoside (2t):

$^1\text{H-NMR}$ (400 MHz, CDCl_3)



$^{13}\text{C-NMR}$ (100 MHz, CDCl_3)

