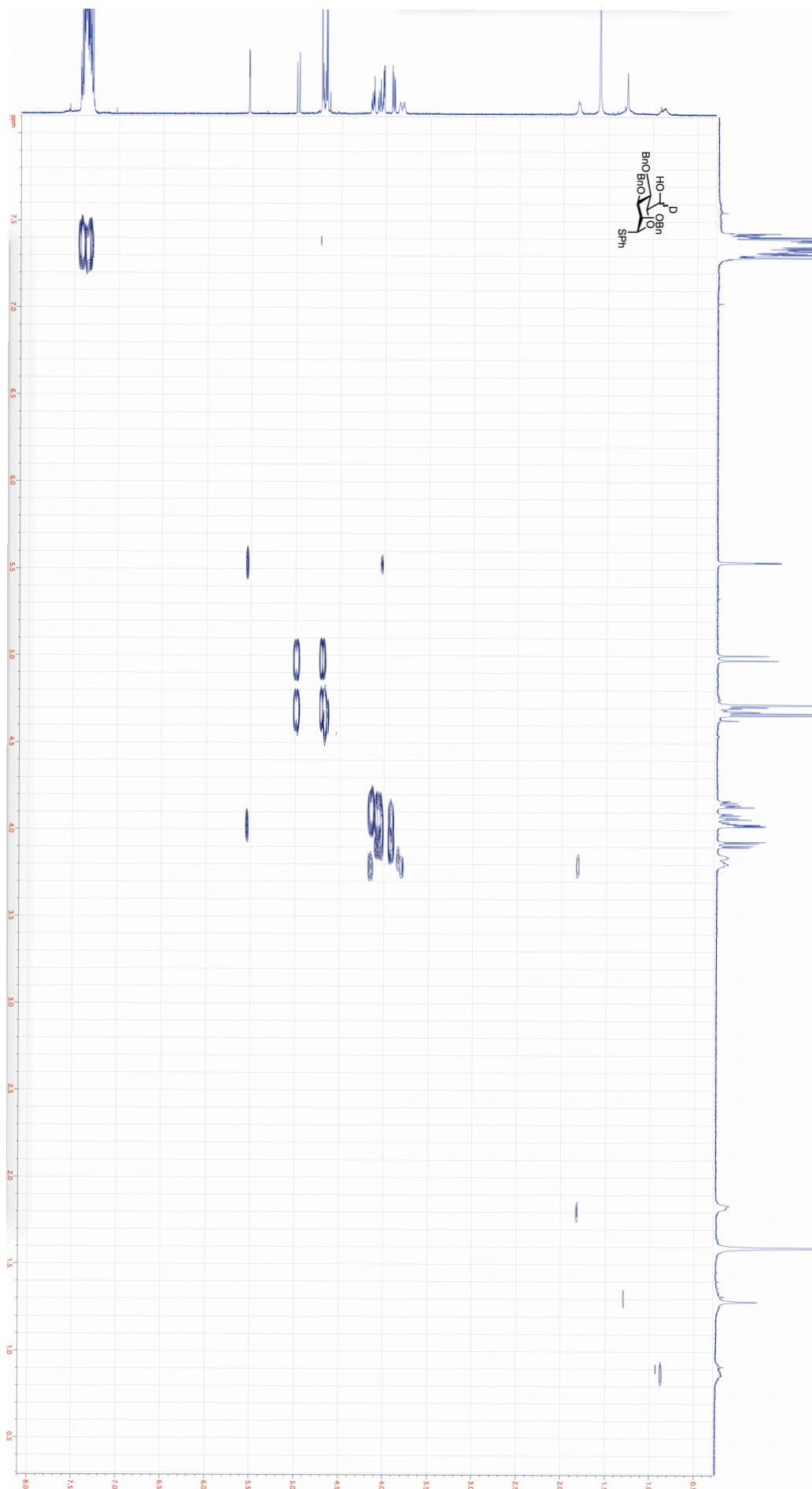


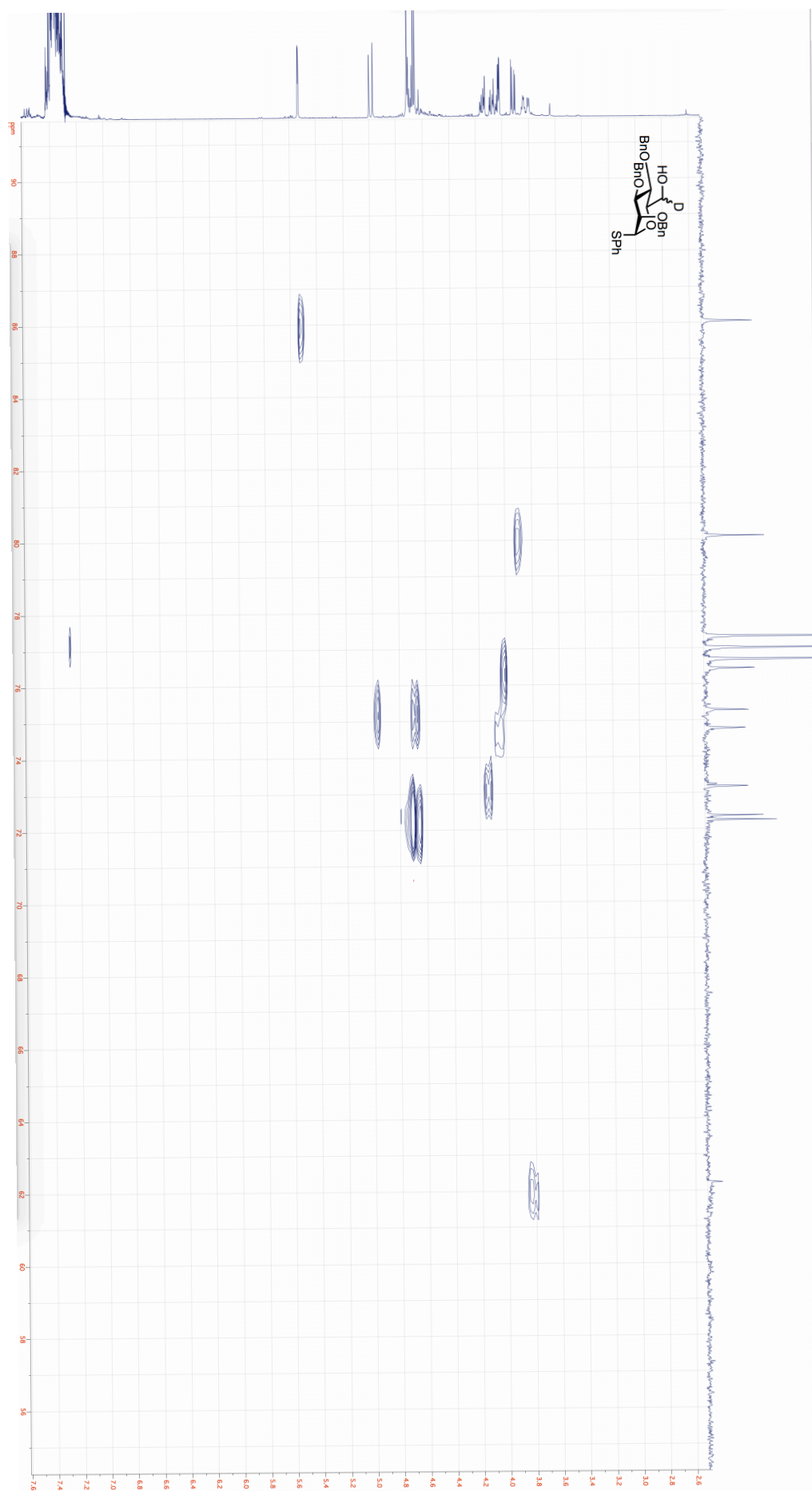
¹H NMR400 MHz, CDCl₃

COSY NMR

400 MHz, CDCl₃

Phenyl 2,3,4-tri-*O*-benzyl-6R/S-deutero-1-thio- α -D-mannopyranoside

HSQC NMR



400 MHz, CDCl_3

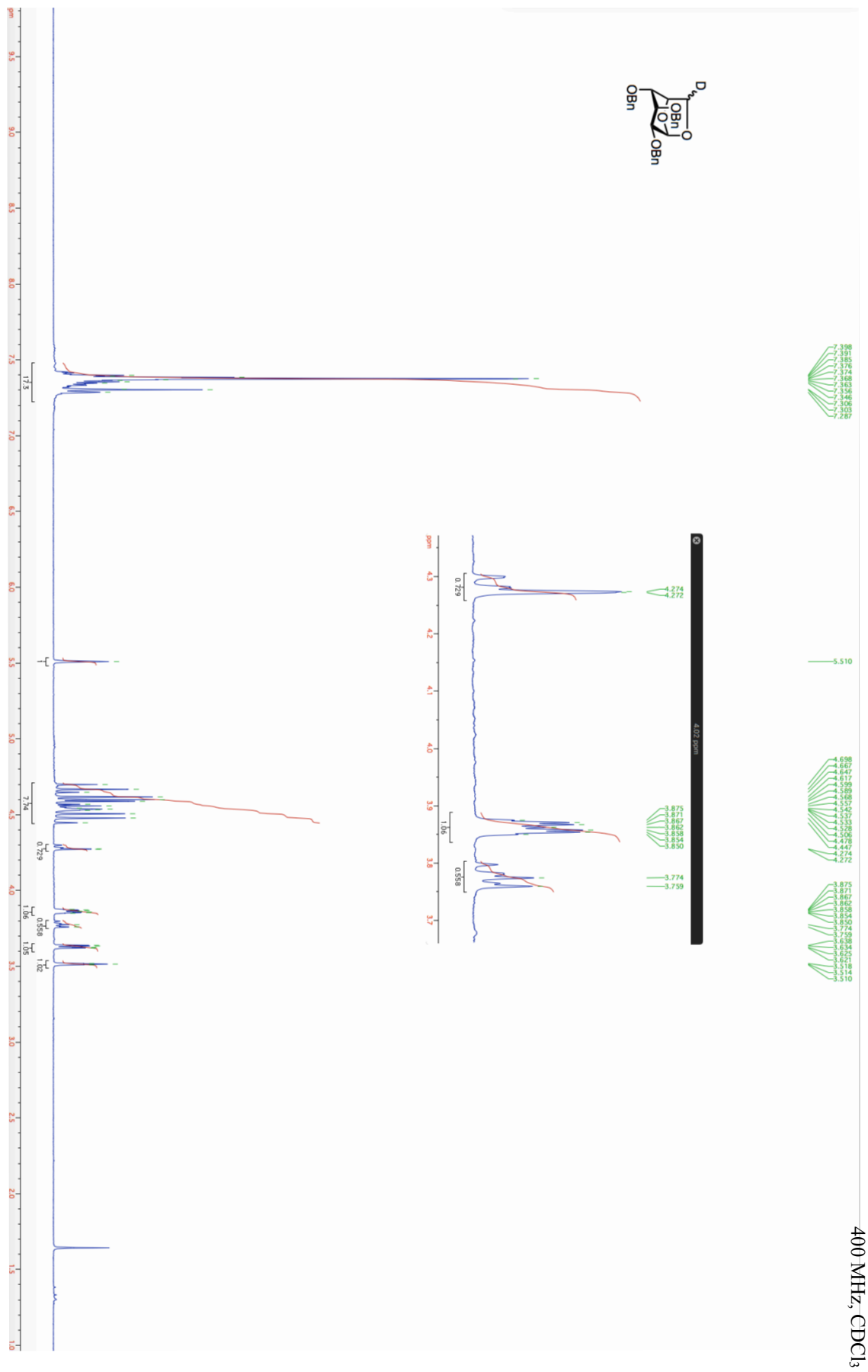
Phenyl 2,3,4-tri-*O*-benzyl-6*R/S*-deutero-1-thio- α -D-mannopyranoside

^{13}C NMR

100 MHz, CDCl_3

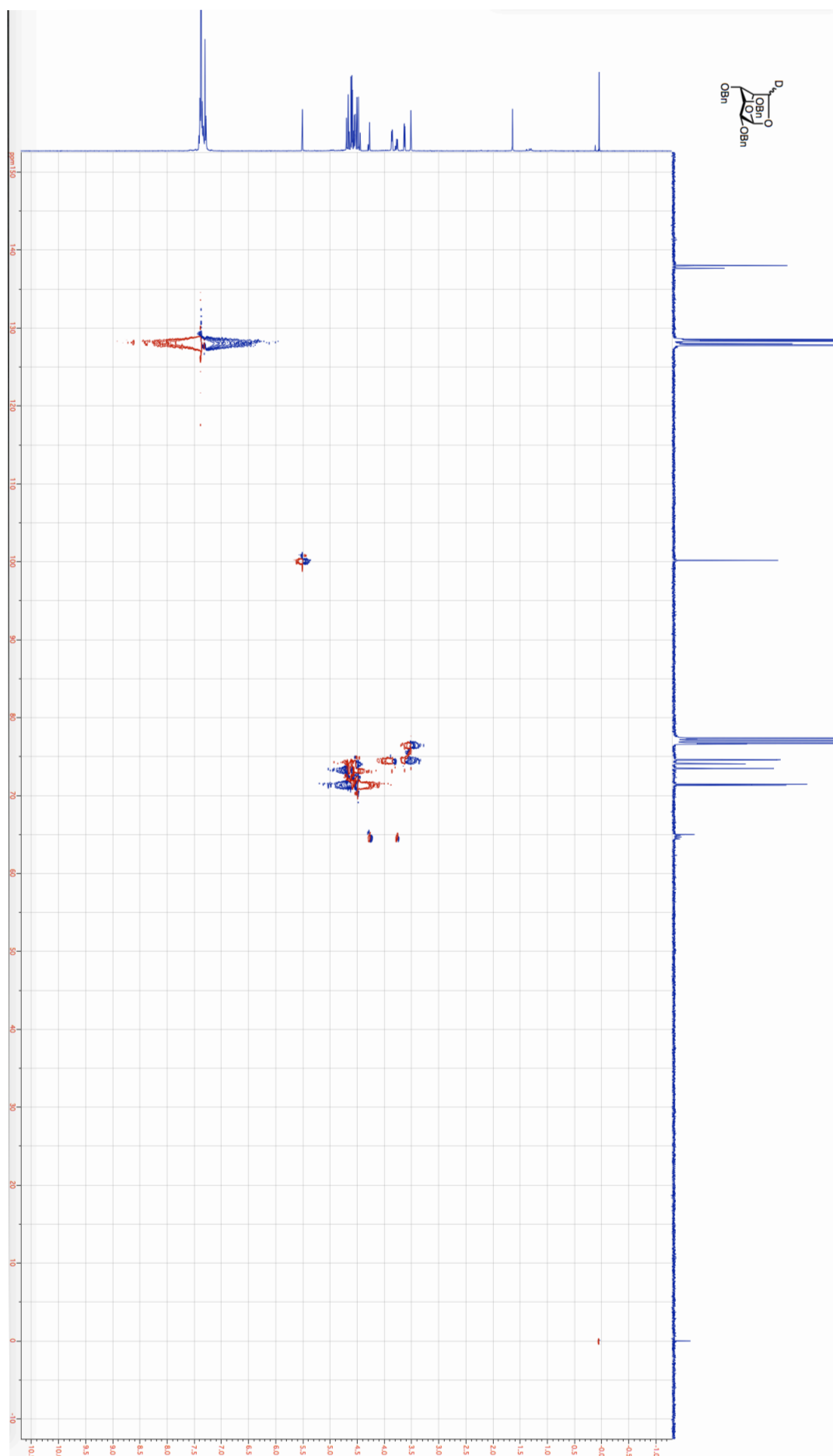


2,3,4-tri-*O*-benzyl-6*R/S*-1-6-anhydro-D-mannose

¹H NMR

2,3,4-tri-*O*-benzyl-6*R/S*-1-6-anhydro-D-mannose

HSQC NMR

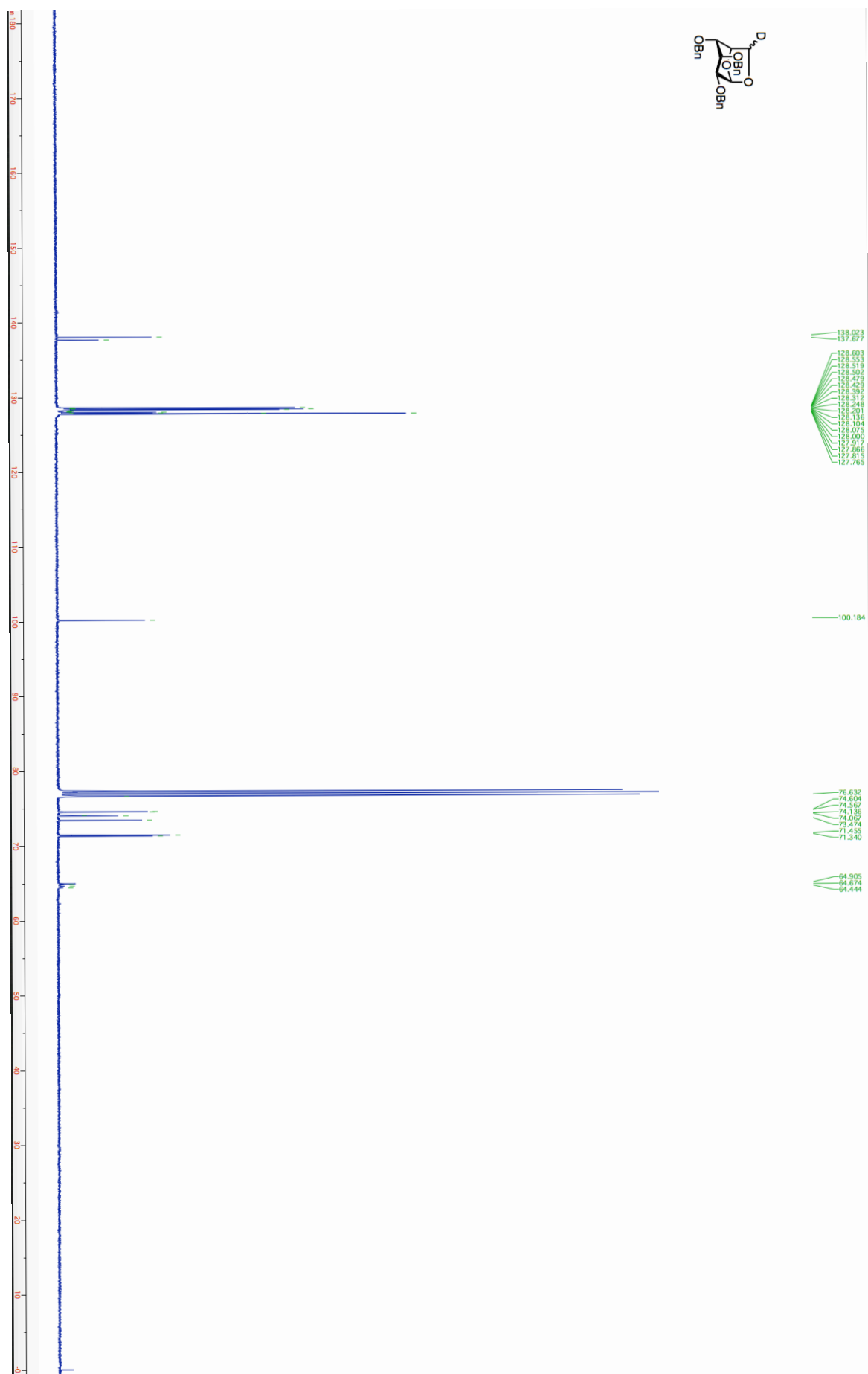
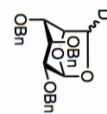


400 MHz, CDCl_3

2,3,4-tri-*O*-benzyl-6*R/S*-1-6-anhydro-D-mannose

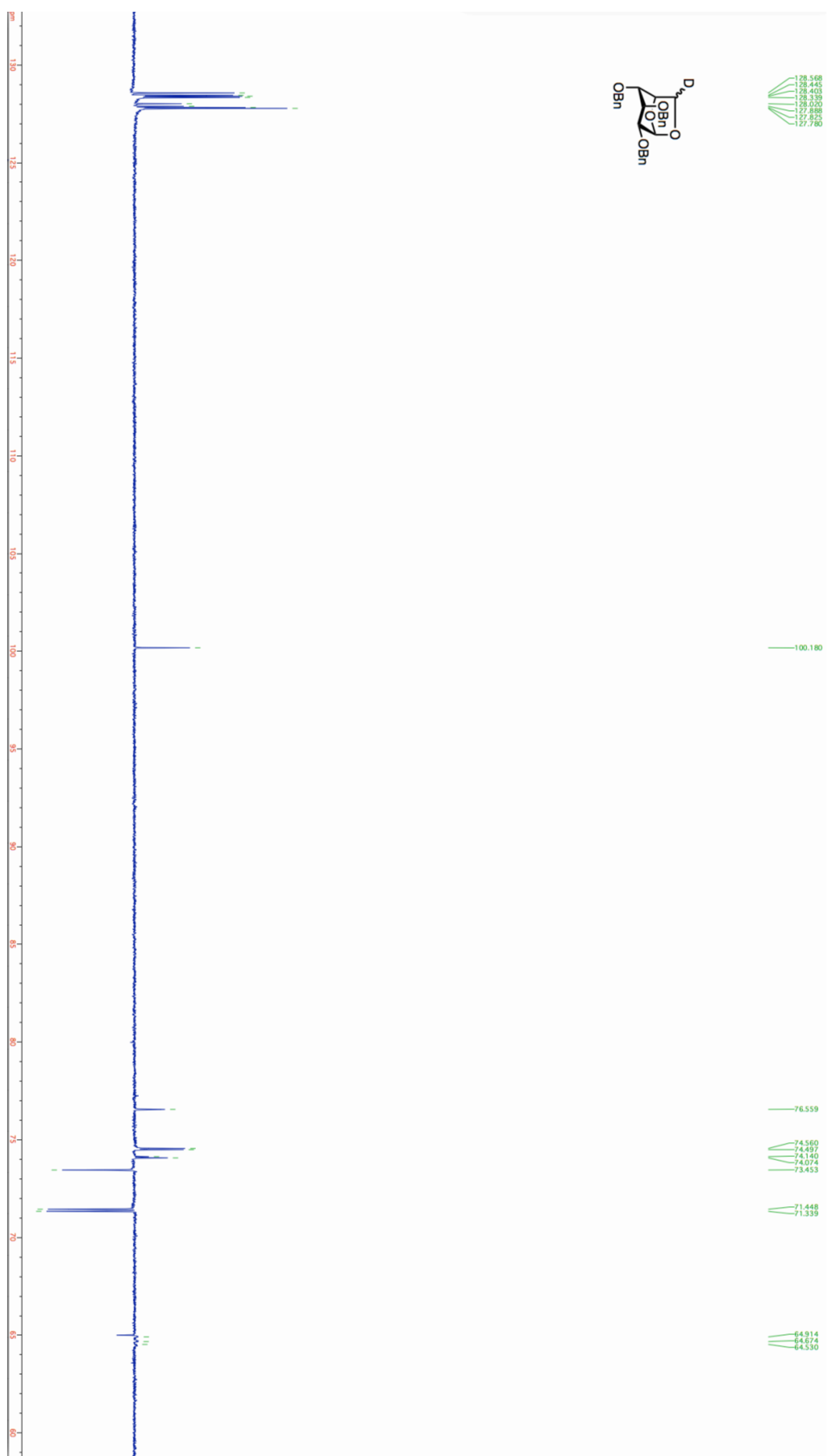
¹³C NMR

100 MHz, CDCl₃

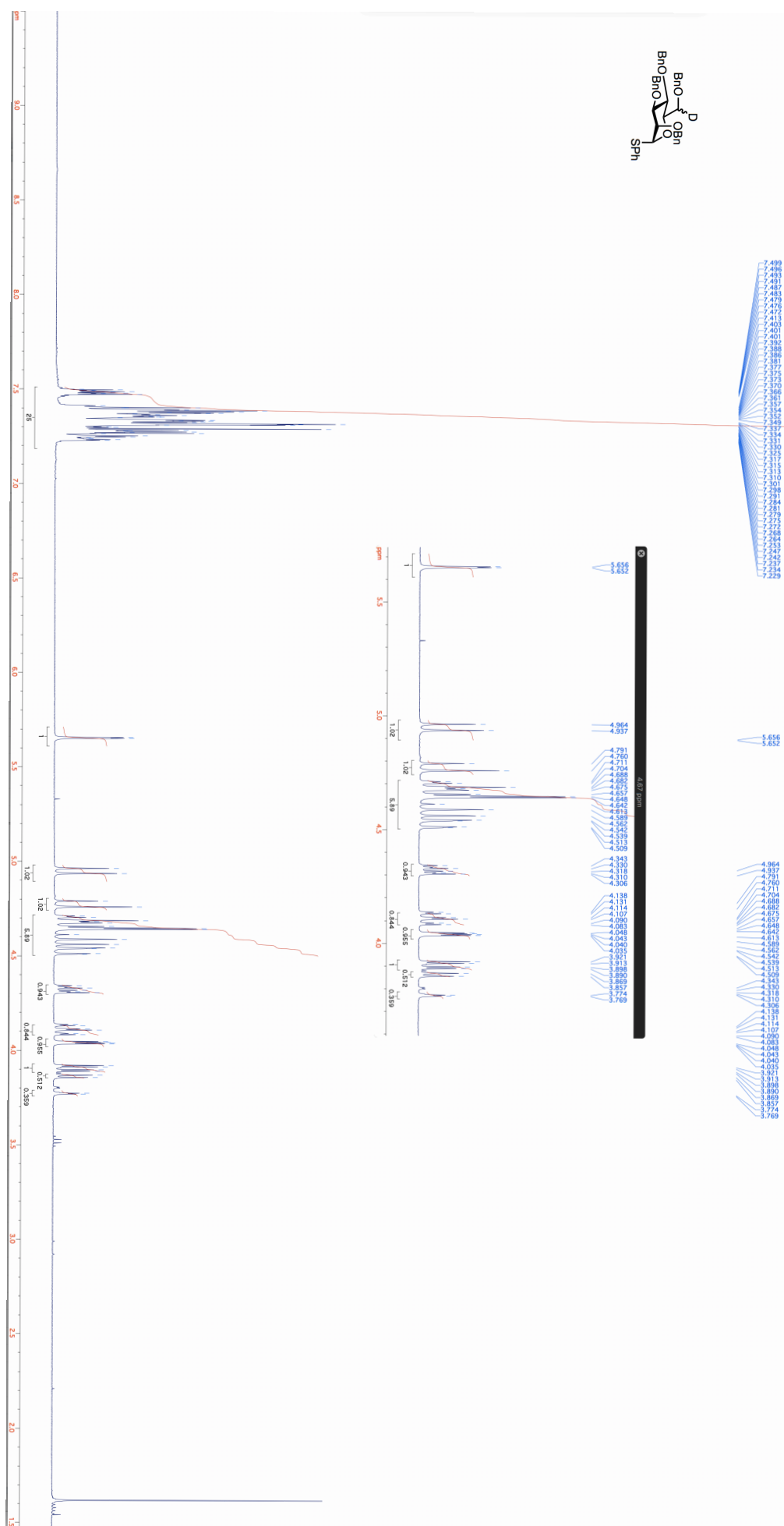


2,3,4-tri-*O*-benzyl-6*R/S*-1-6-anhydro-D-mannose

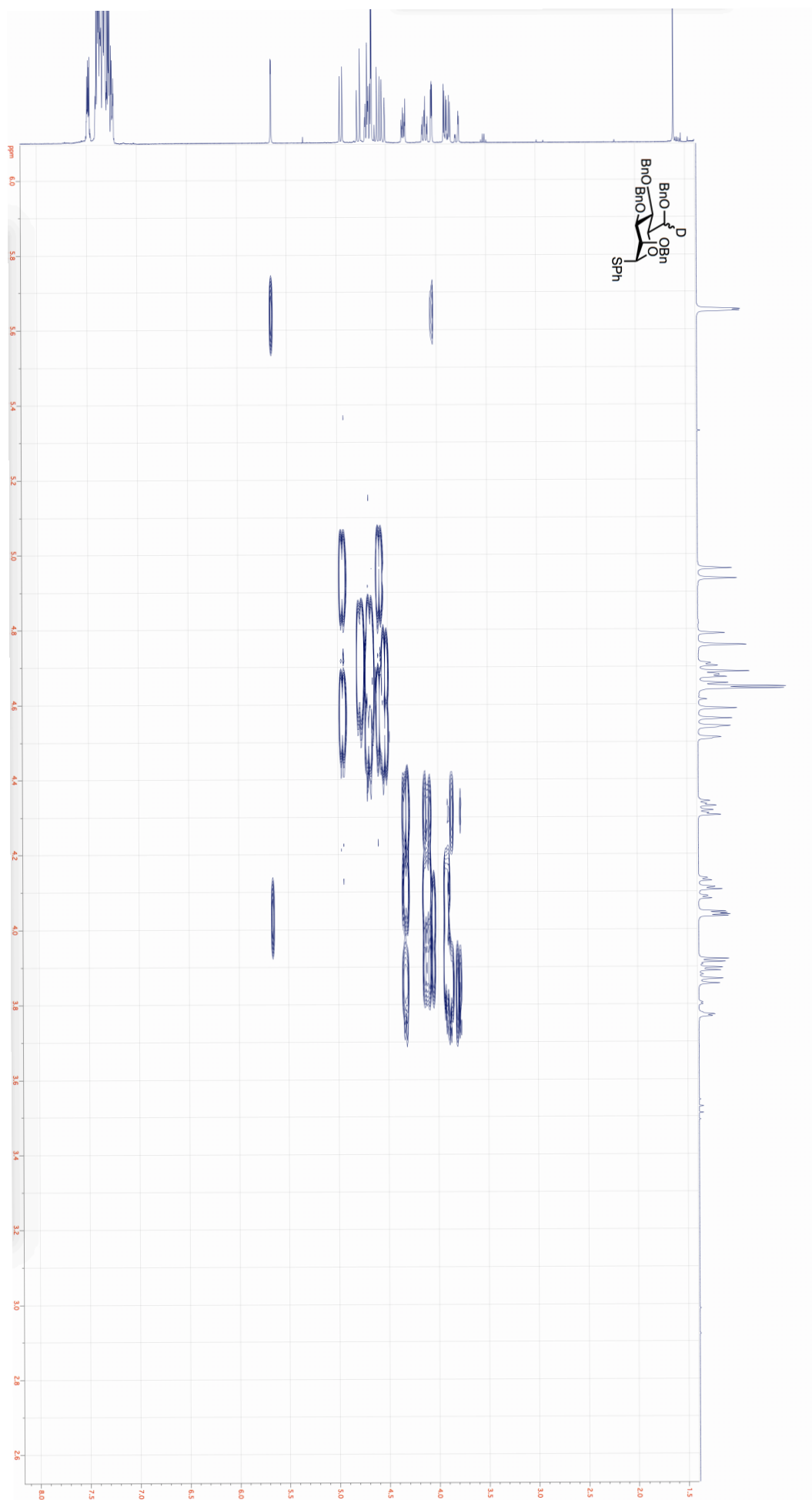
^{13}C DEPT

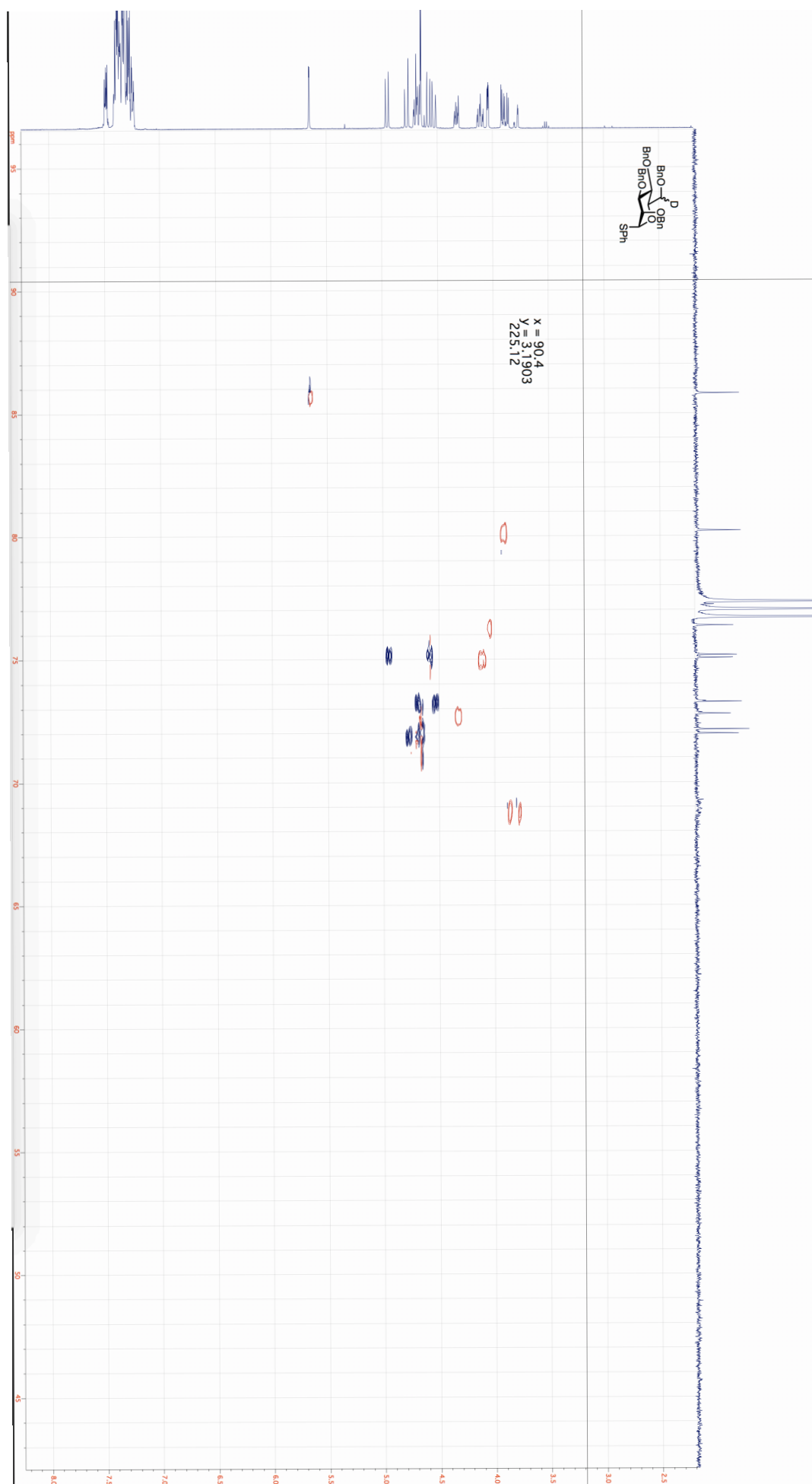


100 MHz, CDCl_3

¹H NMR

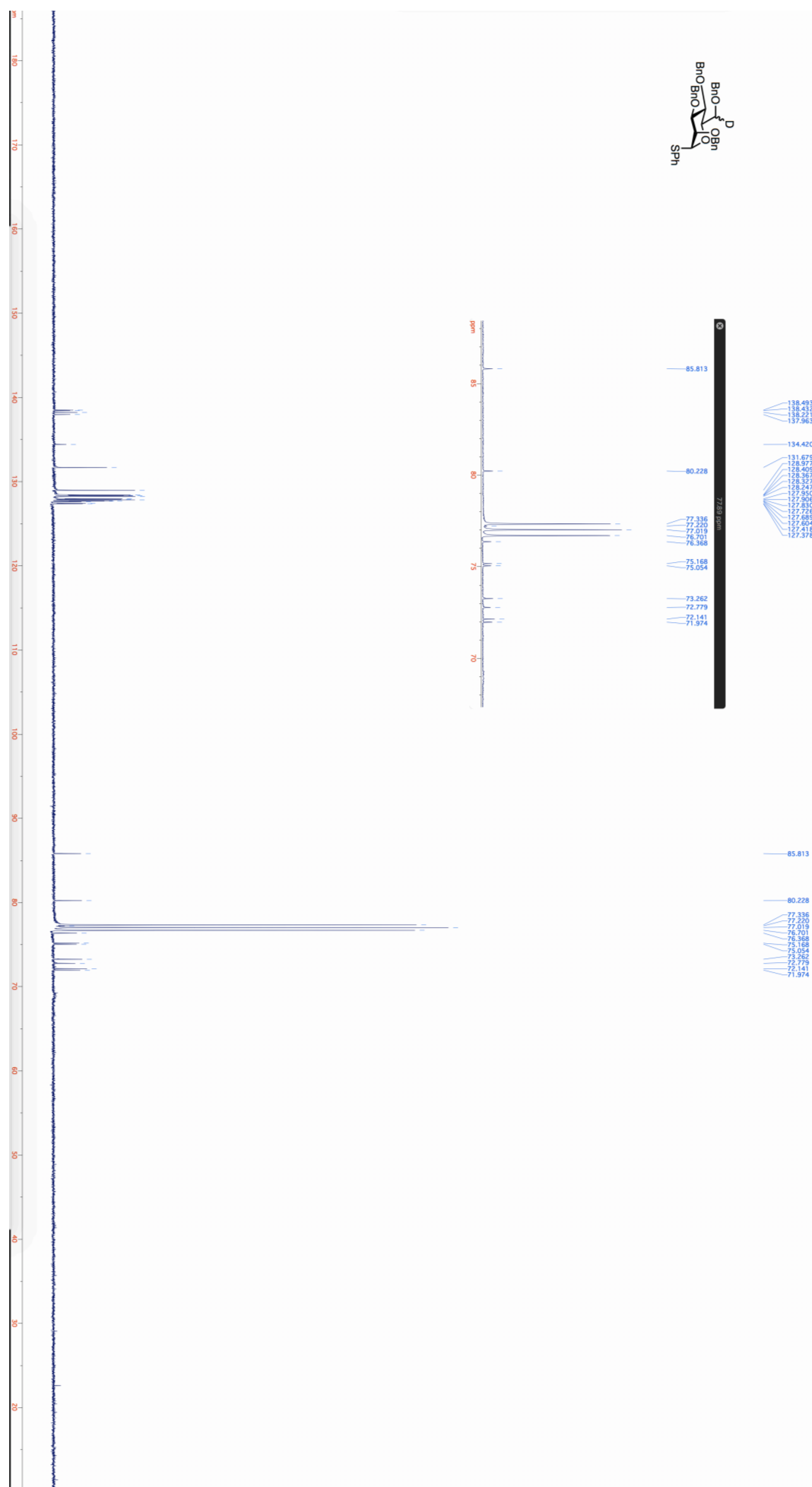
400 MHz, CDCl₃



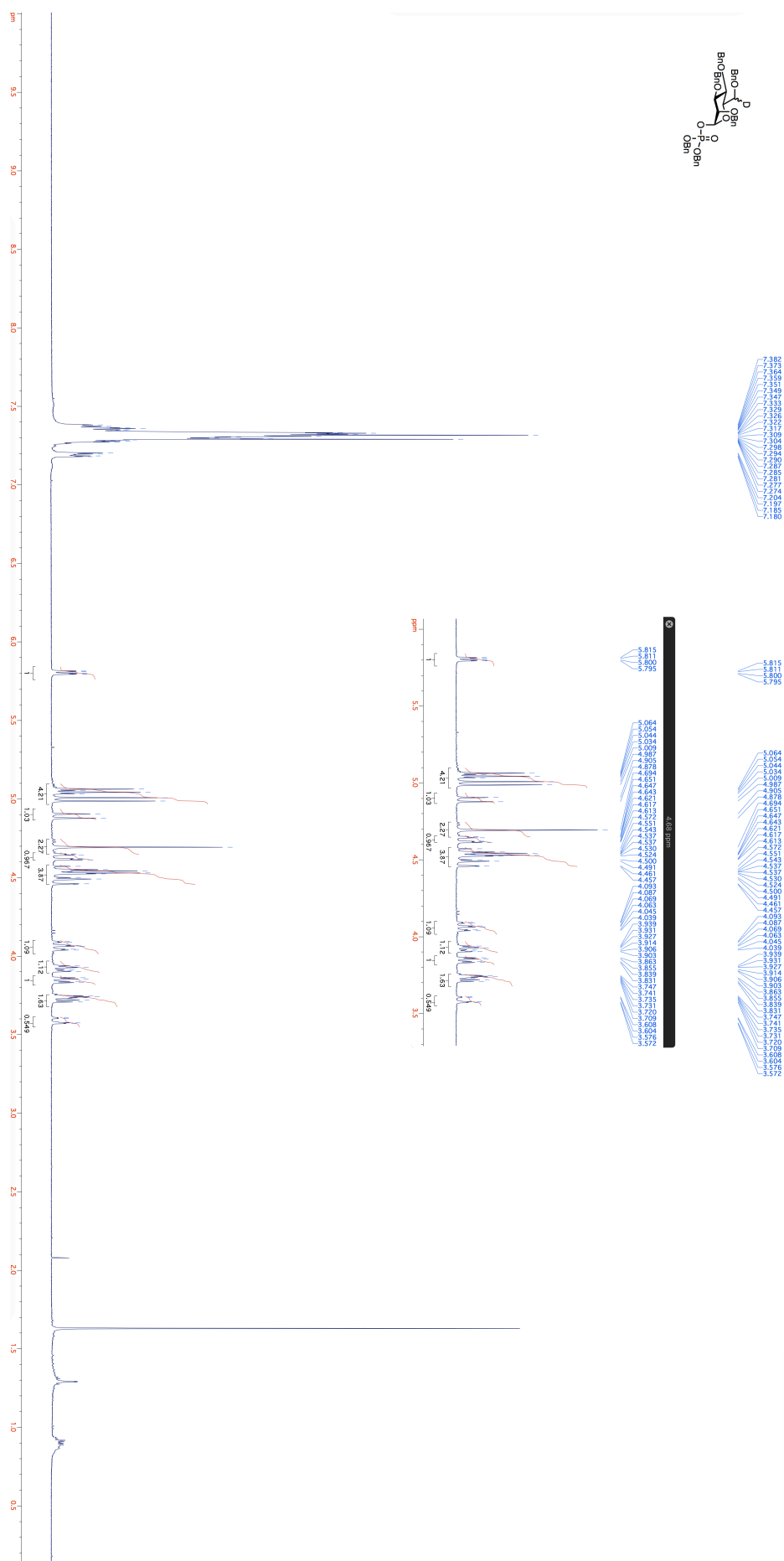
400 MHz, CDCl₃

Phenyl 2,3,4,6-tetra-*O*-benzyl-6*R/S*-deutero-1-thio- α -D-mannopyranoside

^{13}C NMR

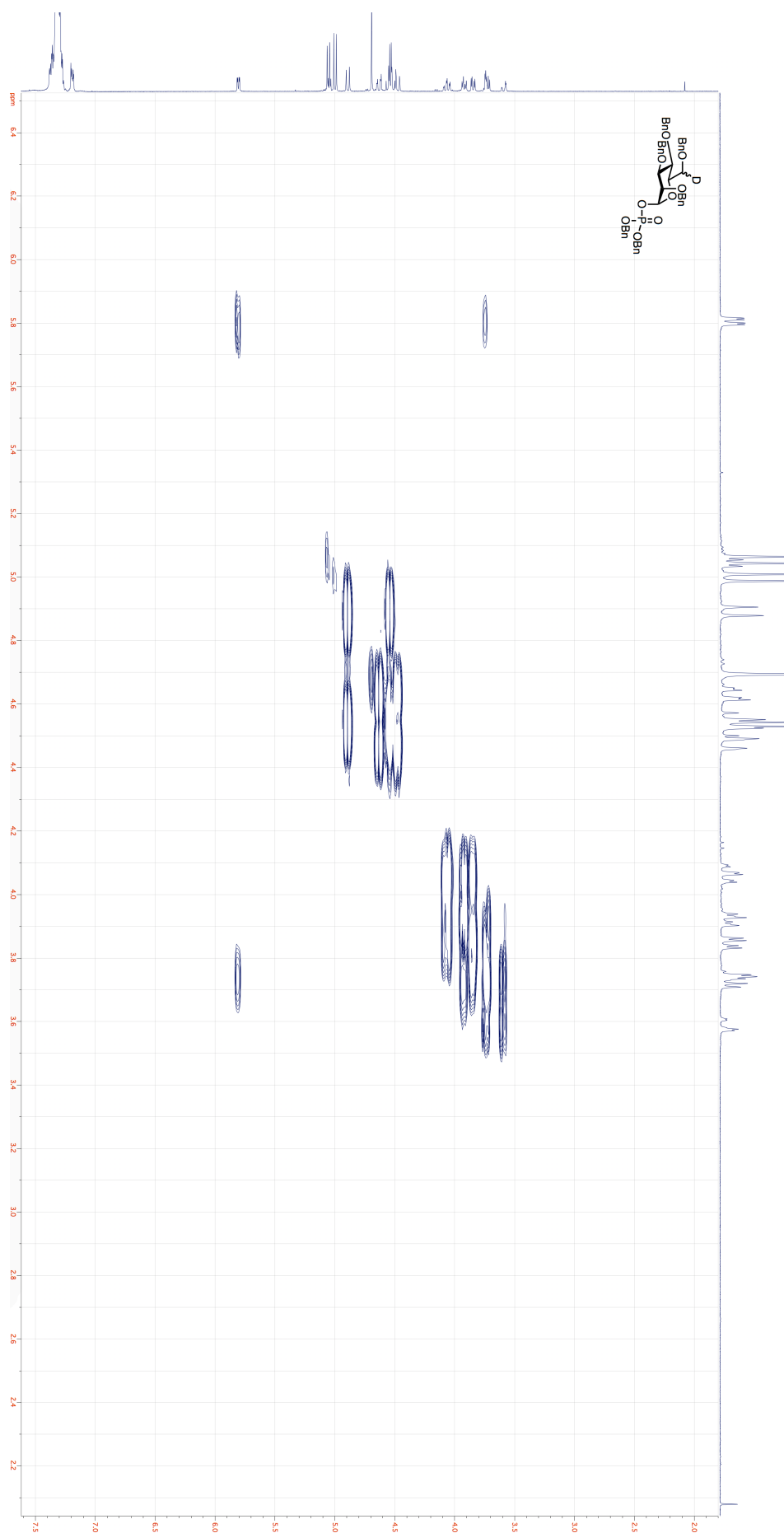


100 MHz, CDCl_3

400 MHz, CDCl₃400 MHz, CDCl₃

COSY NMR

Dibenzyl (2,3,4,6-tetra-O-benzyl-6R/S-deutero-1-phosphate- α -D mannopyranoside)

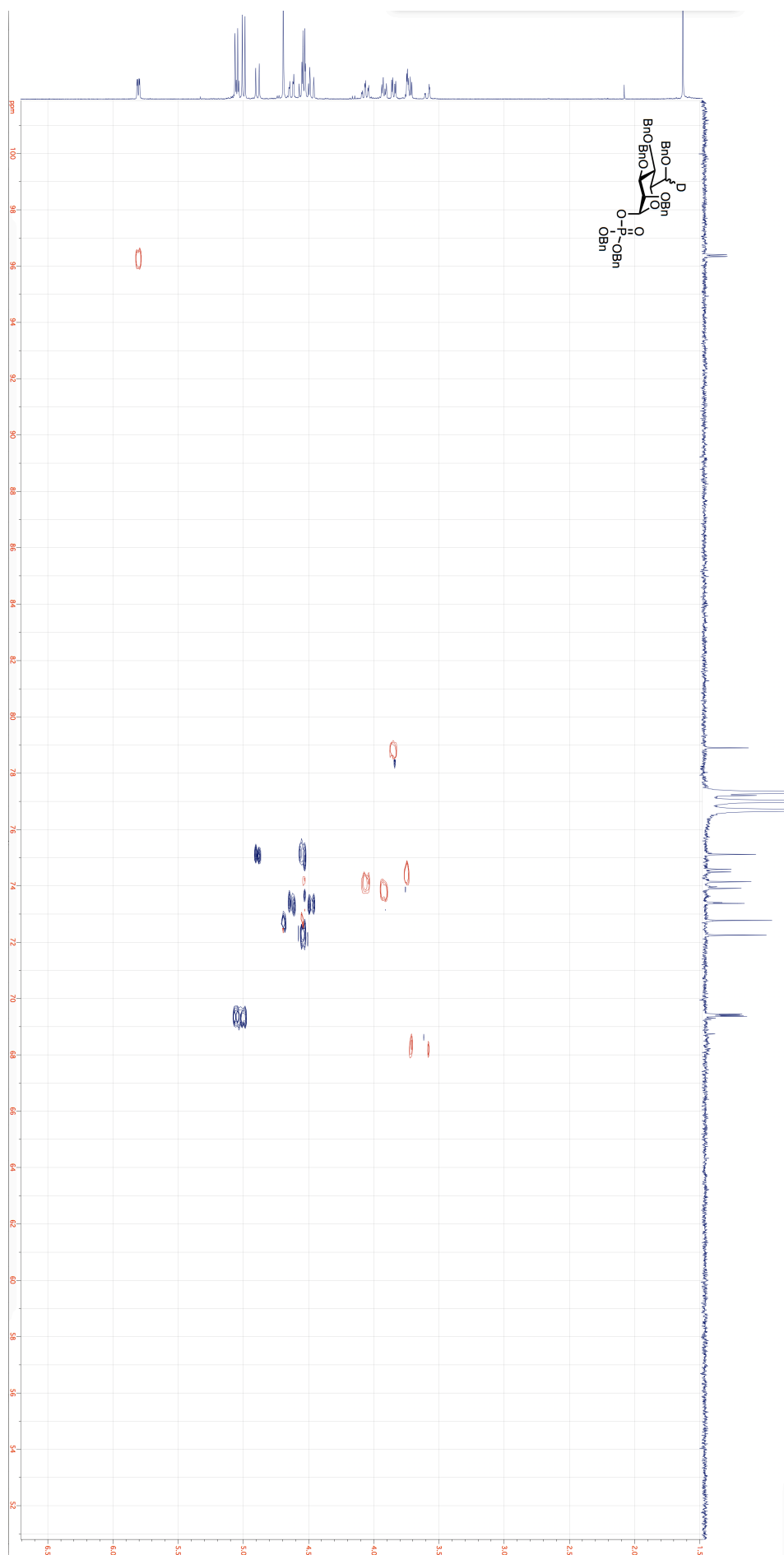


400 MHz, CDCl₃

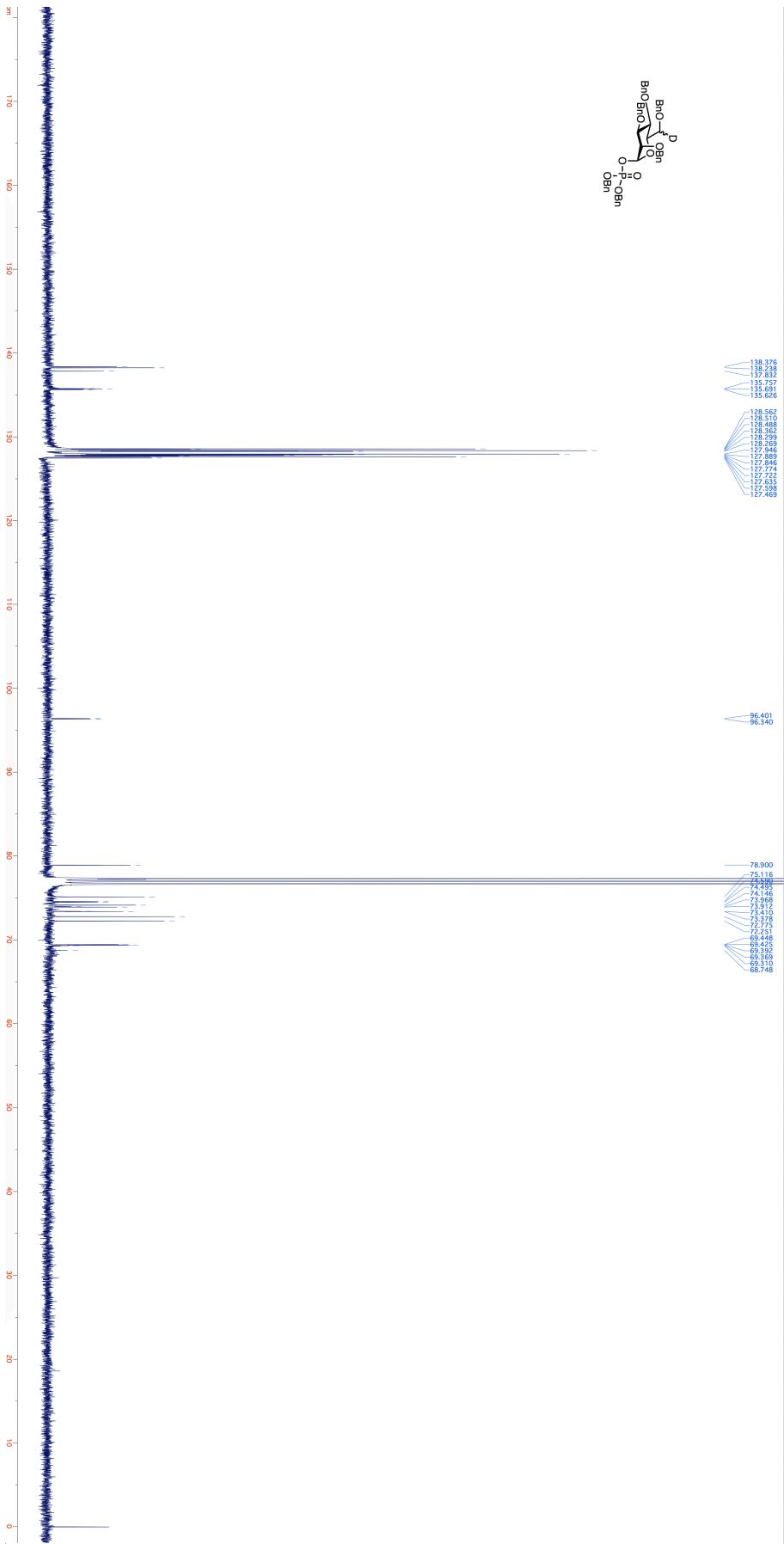
Dibenzyl (2,3,4,6-tetra-O-benzyl-6R/S-deutero-1-phosphate- α -D mannopyranoside)

HSQC NMR

400 MHz, CDCl₃



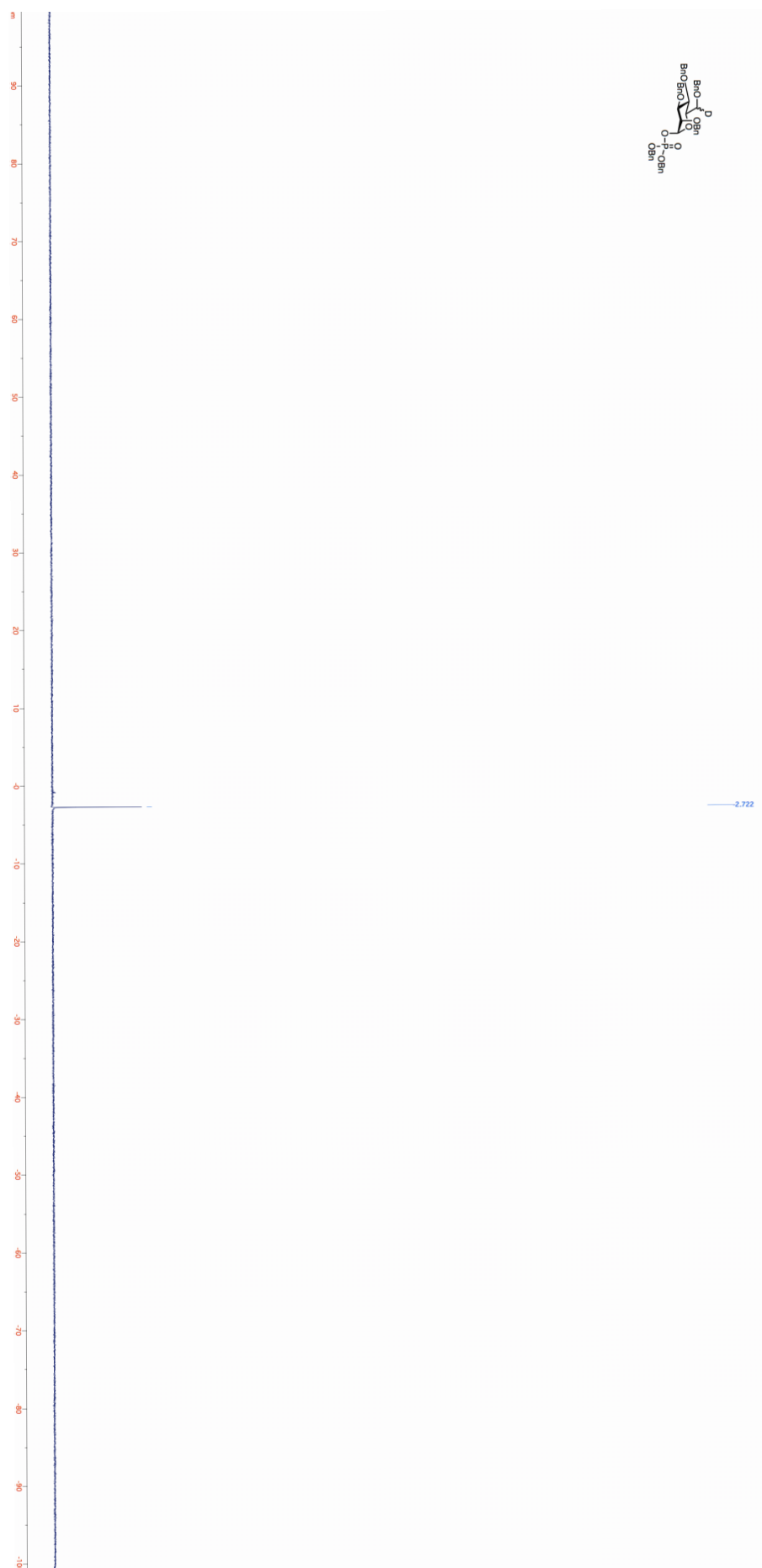
Dibenzyl (2,3,4,6-tetra-O-benzyl-6R/S-deutero-1-phosphate- α -D mannopyranoside)



100 MHz, CDCl₃

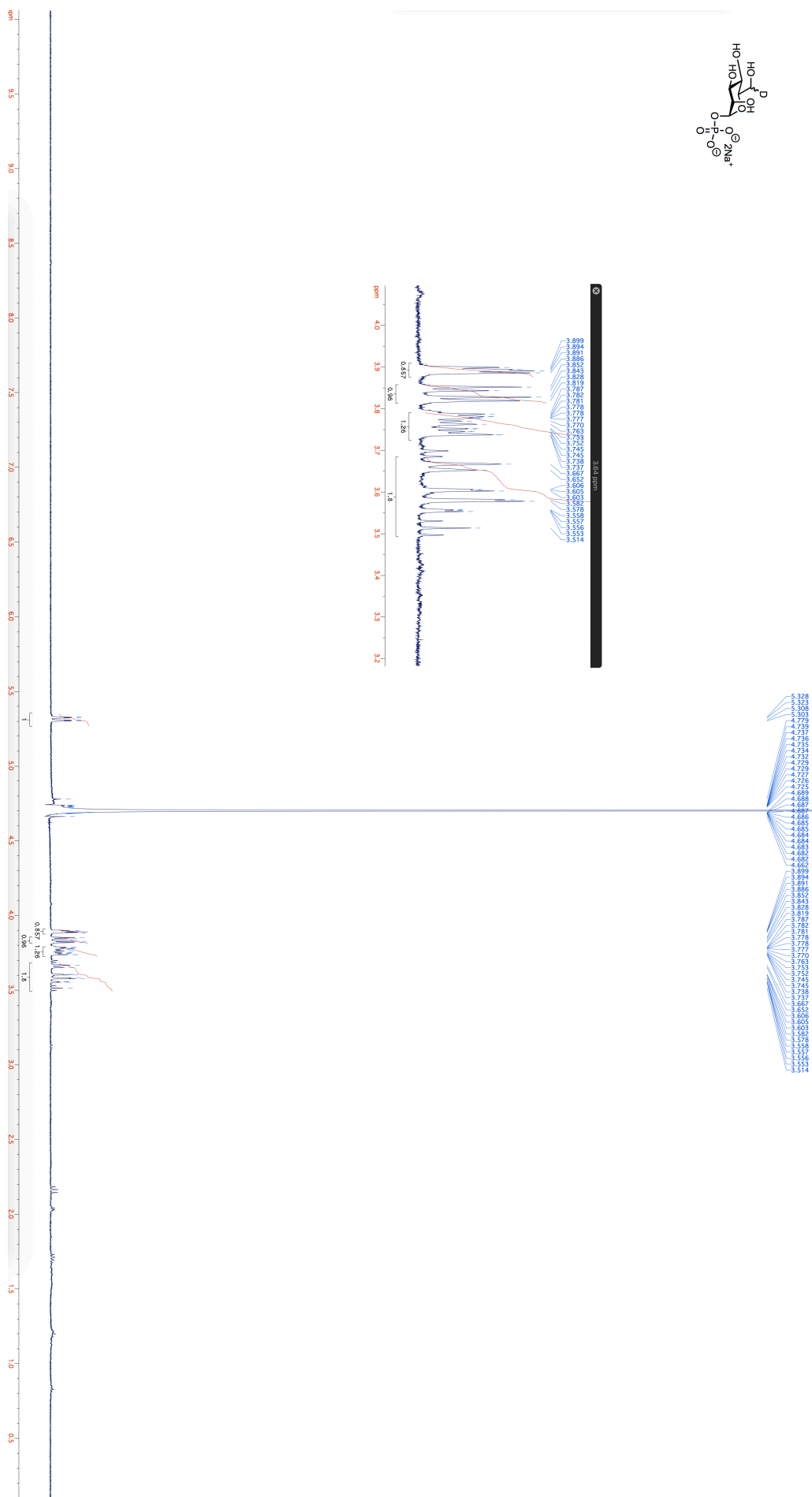
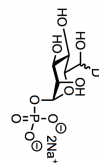
Dibenzyl (2,3,4,6-tetra-O-benzyl-6R/S-deutero-1-phosphate- α -D mannopyranoside)

^{31}P NMR

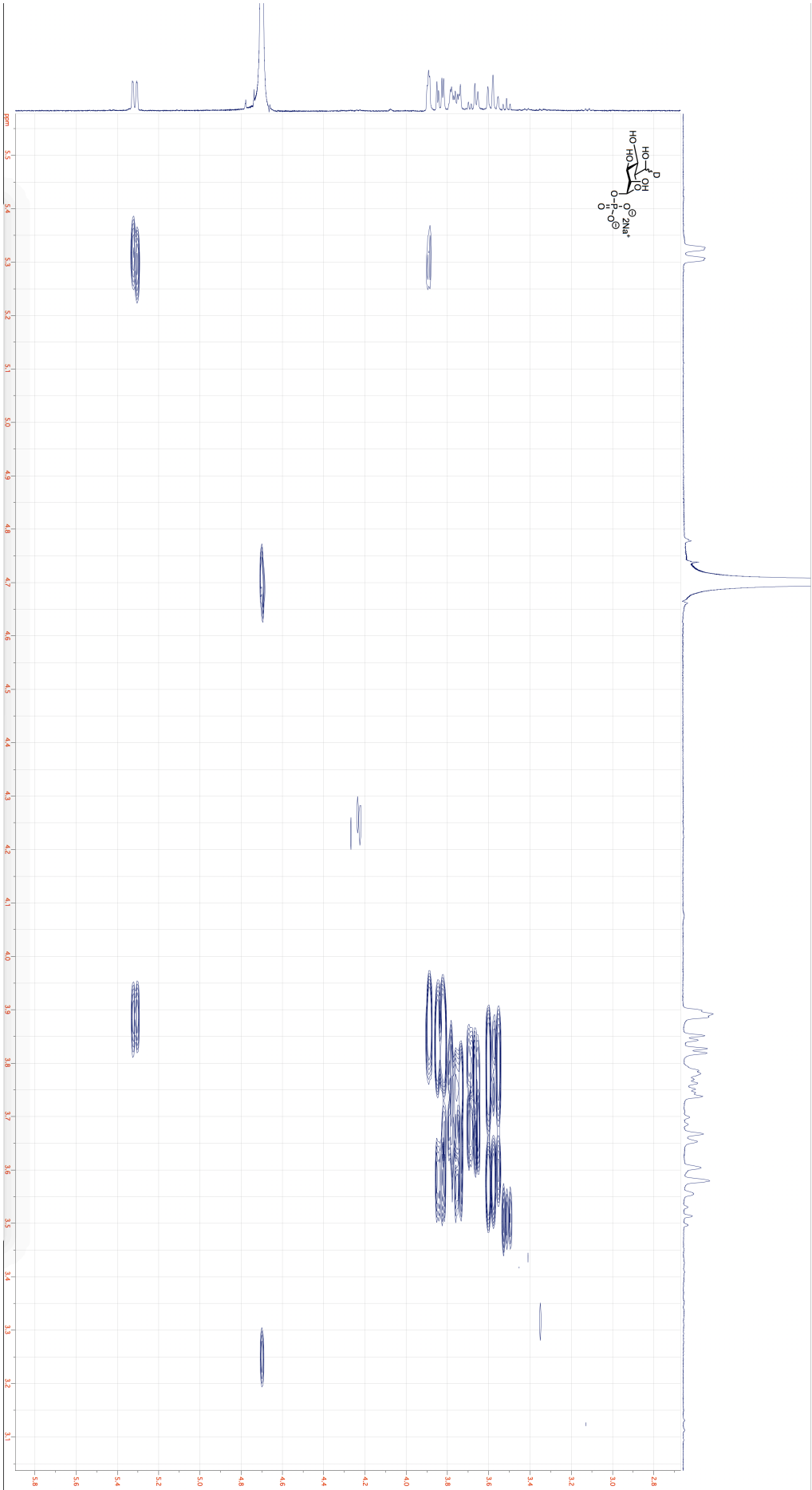


161 MHz, CDCl_3

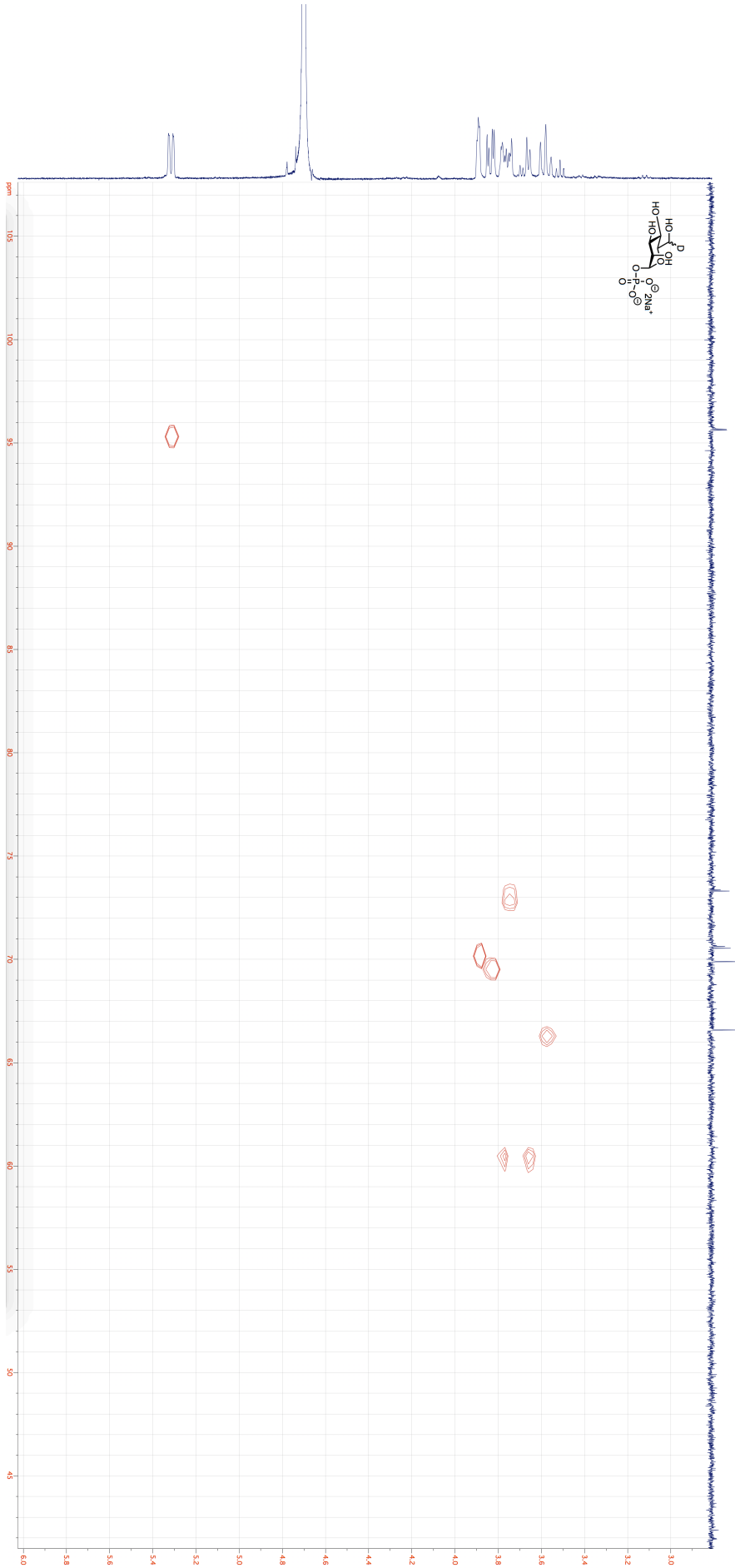
6R/S-deutero- α -D-mannopyranoside-1-phosphate

¹H NMR

400 MHz, CDCl₃



6R/S-deutero-α-D-mannopyranoside-1-phosphate

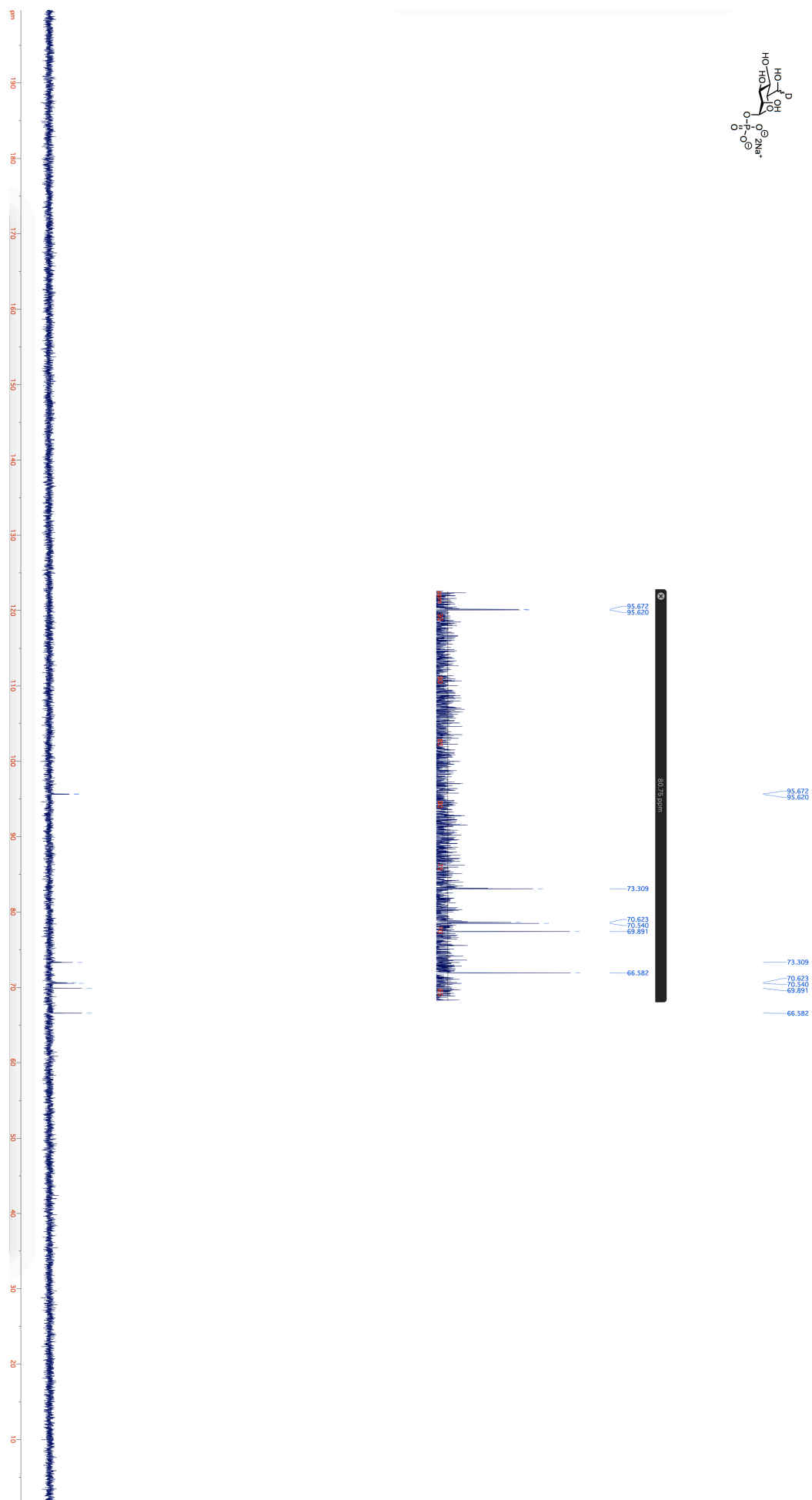
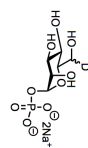


HSQC NMR

400 MHz, CDCl₃

6R/S-deutero- α -D-mannopyranoside-1-phosphate

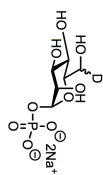
^{13}C NMR



100 MHz, CDCl_3

6R/S-deutero- α -D-mannopyranoside-1-phosphate

^{31}P NMR



161 MHz, CDCl_3

