

Supporting Information for
Synthesis of Neoglycoconjugates by the Desulfurative
Rearrangement of Allylic Disulfides

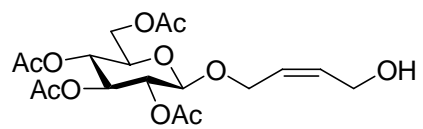
David Crich and Fan Yang*

Department of Chemistry, Wayne State University, 5101 Cass Avenue, Detroit, MI 48202

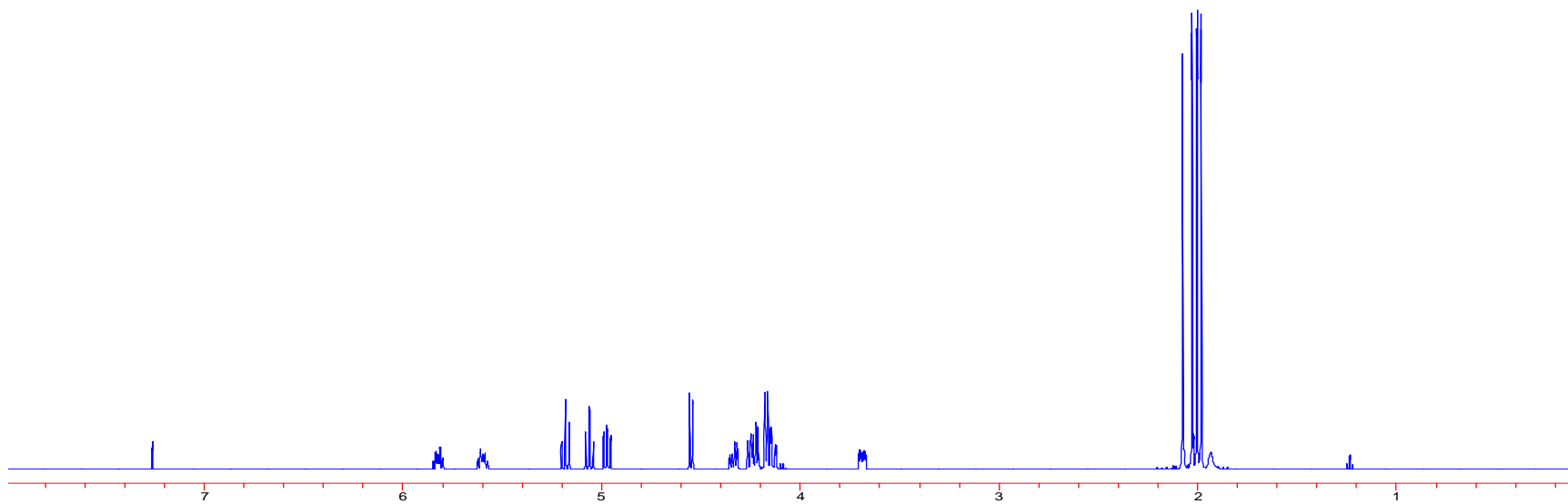
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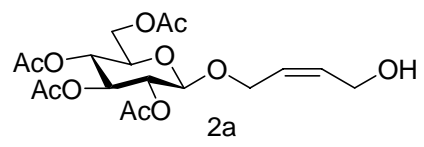
| Compound | Spectra |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| (Z)-4-Hydroxybut-2-enyl Tetra- <i>O</i> -acetyl- β -D-glucopyranoside (2a) | S-3, 4 |
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| | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|
| 2-(Benzothiazol-2-ylidisulfanyl)-3-enyl 4,7,8,9-tetra- <i>O</i> -acetyl-5-acetylamino-3,5-dideoxy-D-glycero- α -D-galacto-non-2-ulopyranosylonate) (10) | (Methyl | S-33, 34 |
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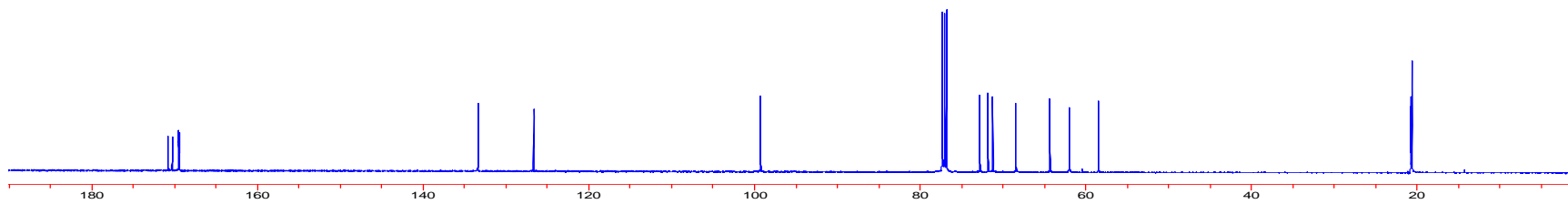


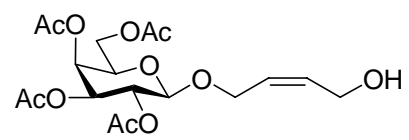
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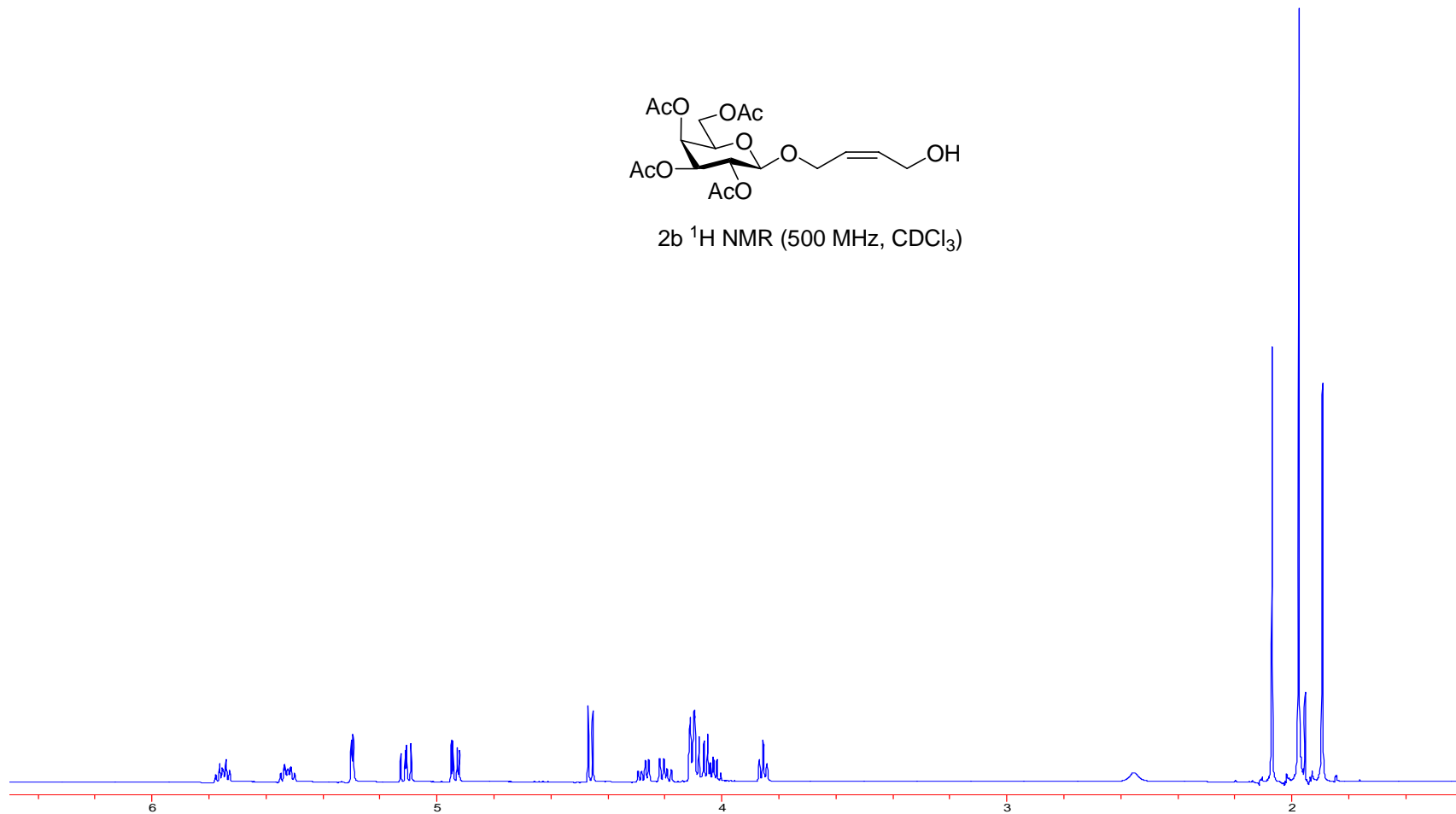


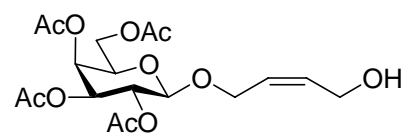
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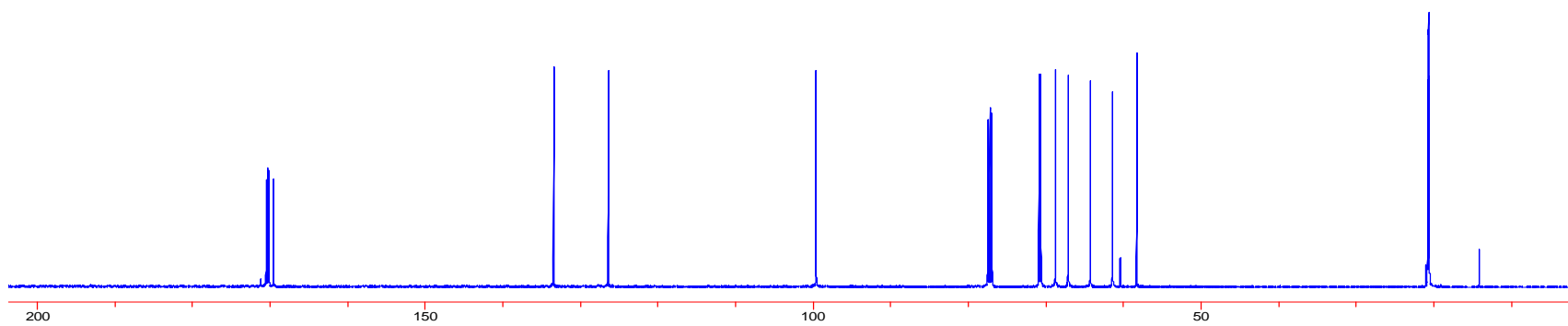


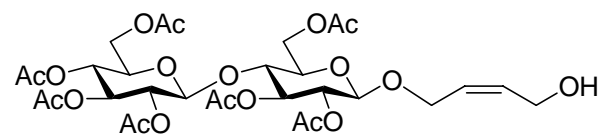
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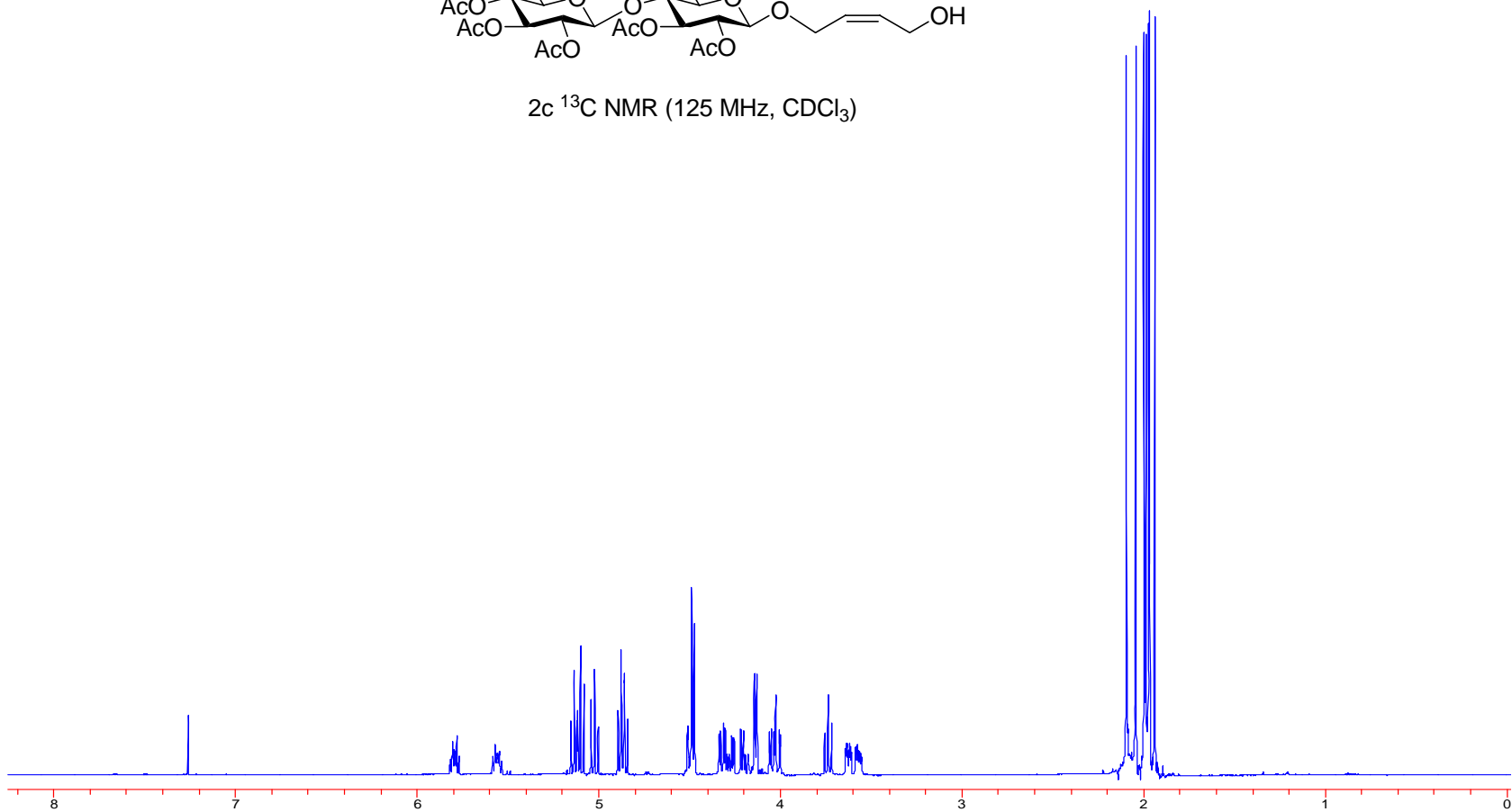


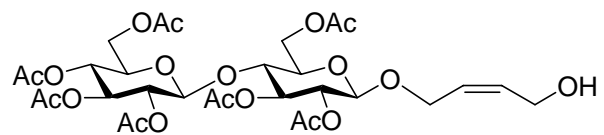
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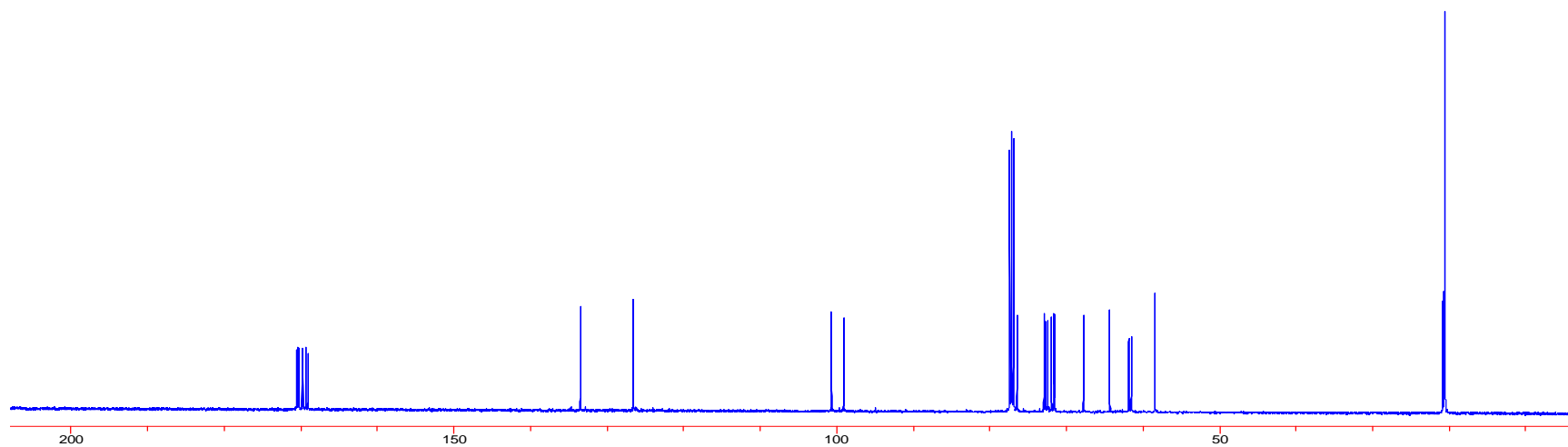


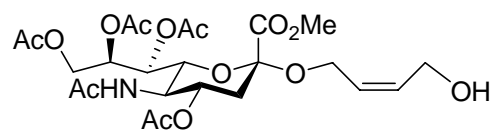
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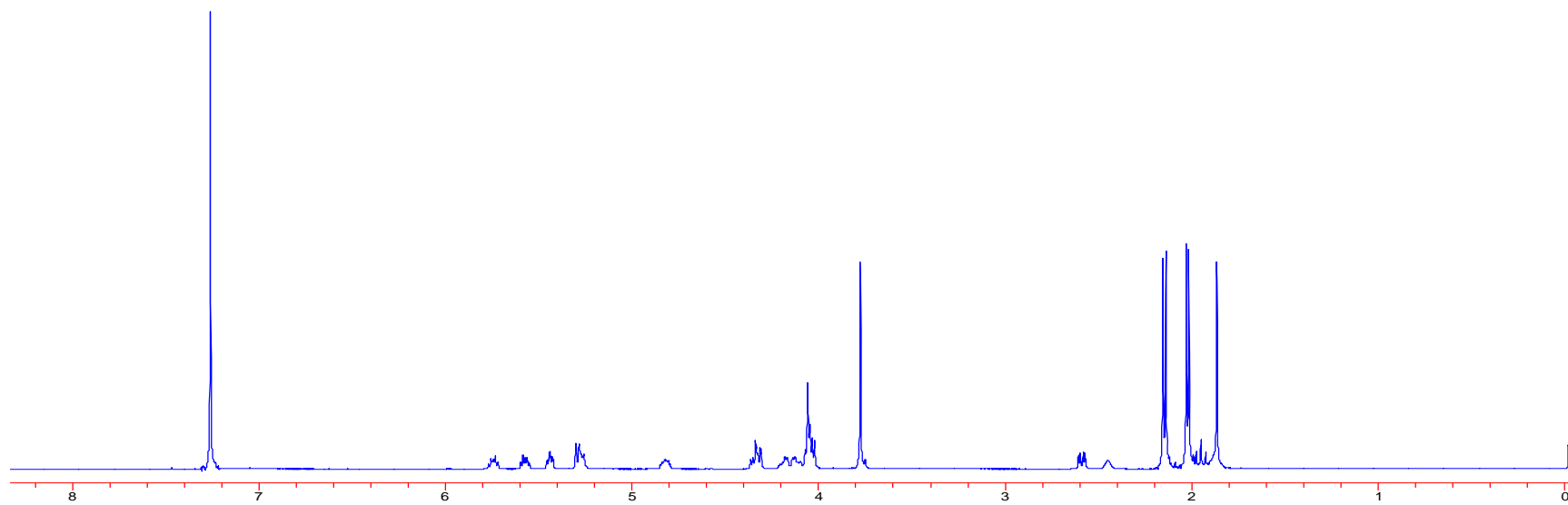


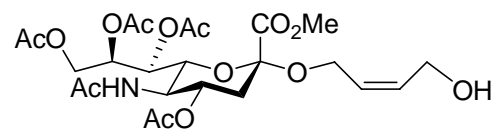
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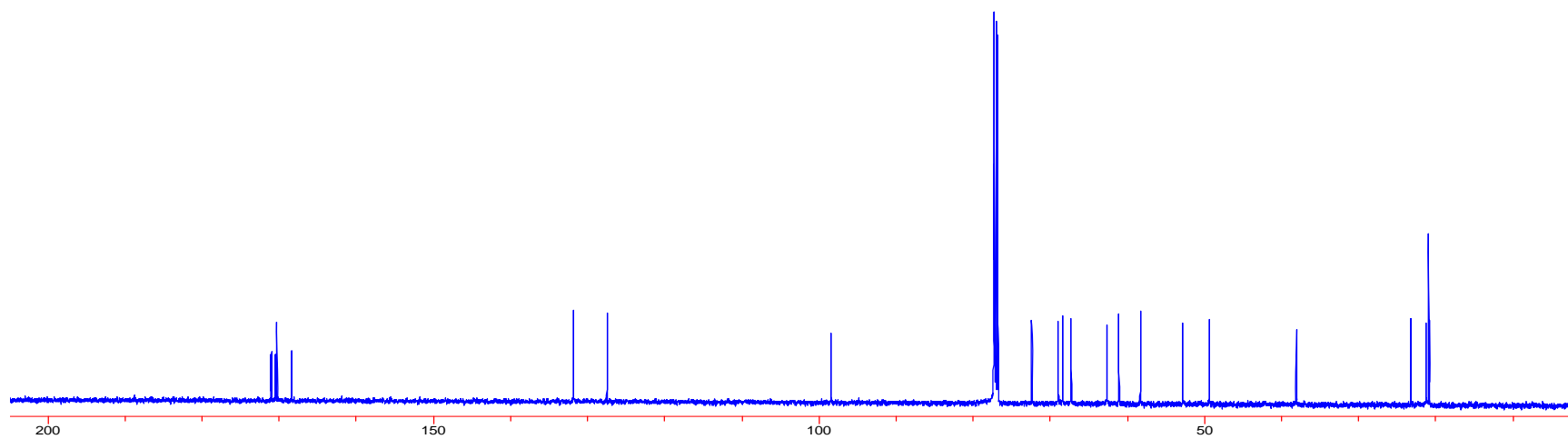


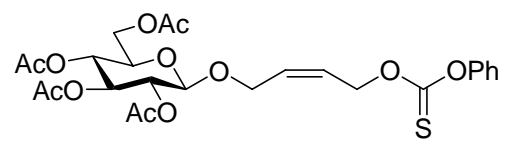
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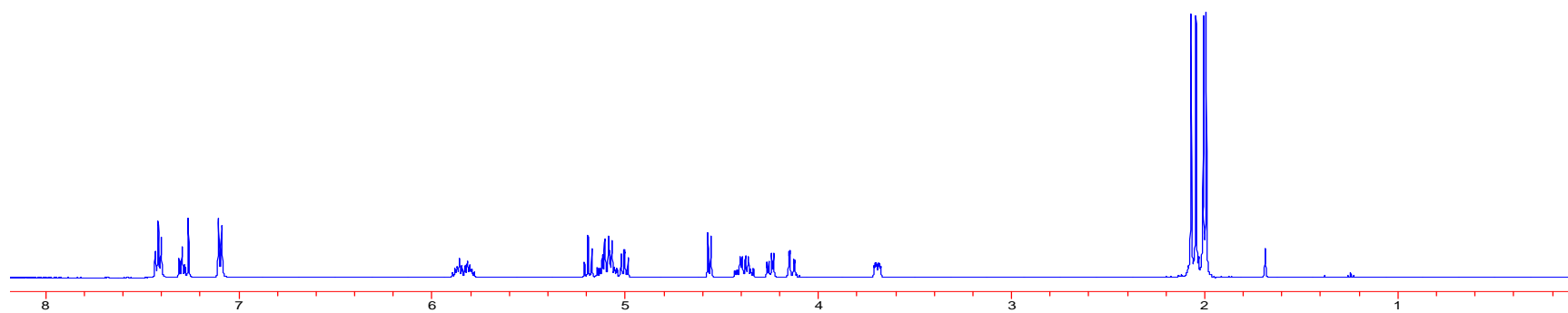


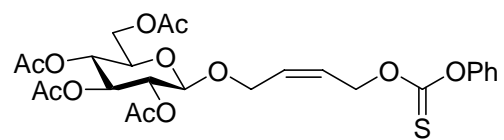
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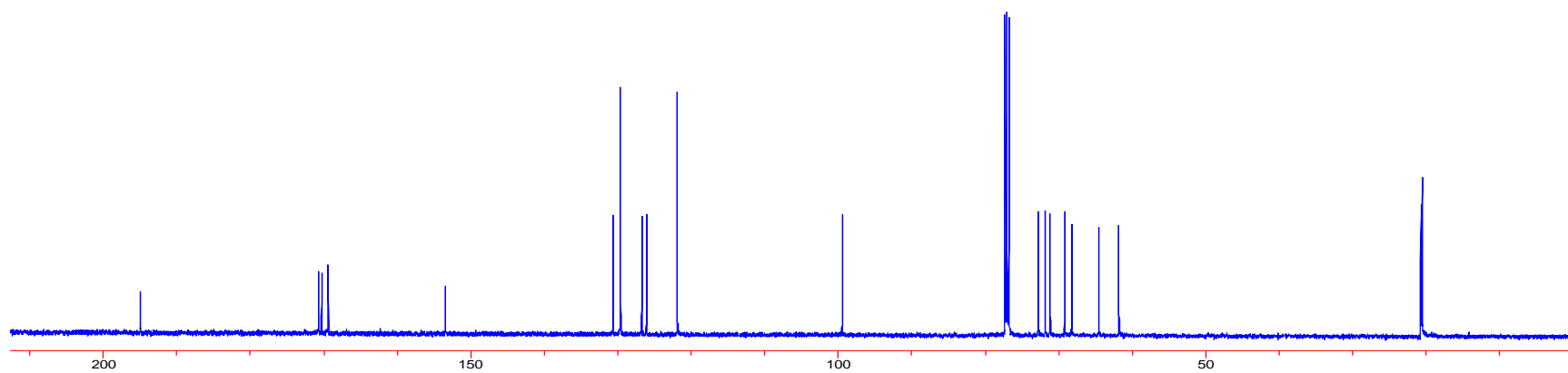


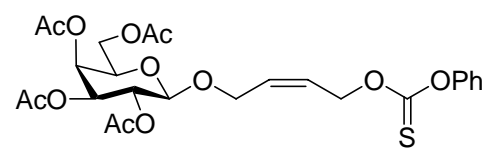
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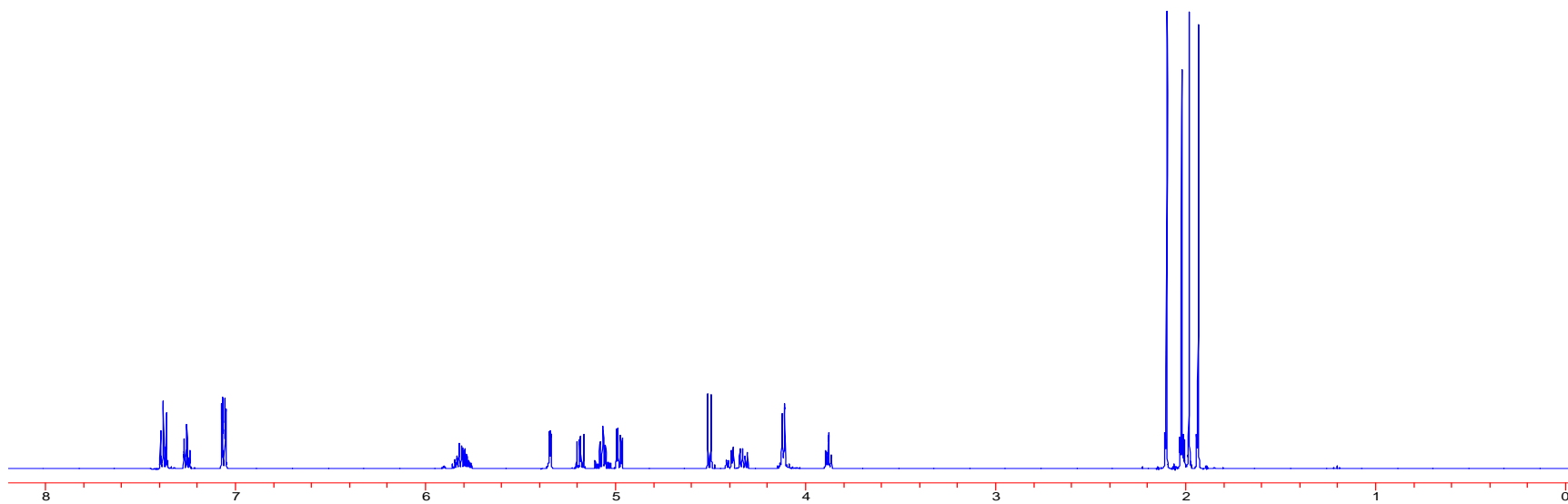


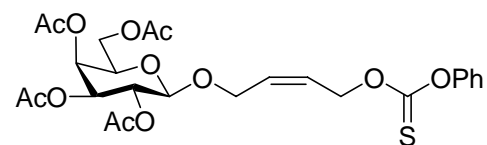
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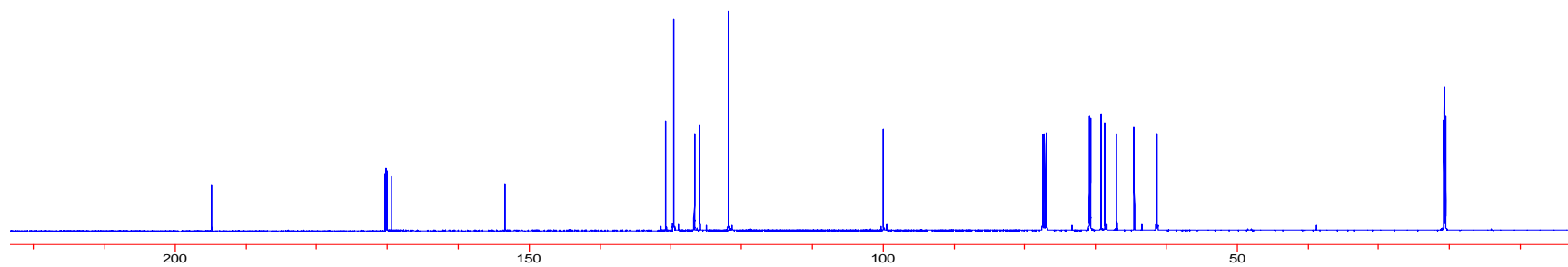


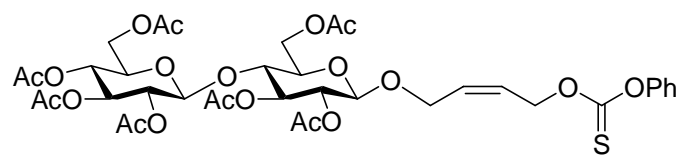
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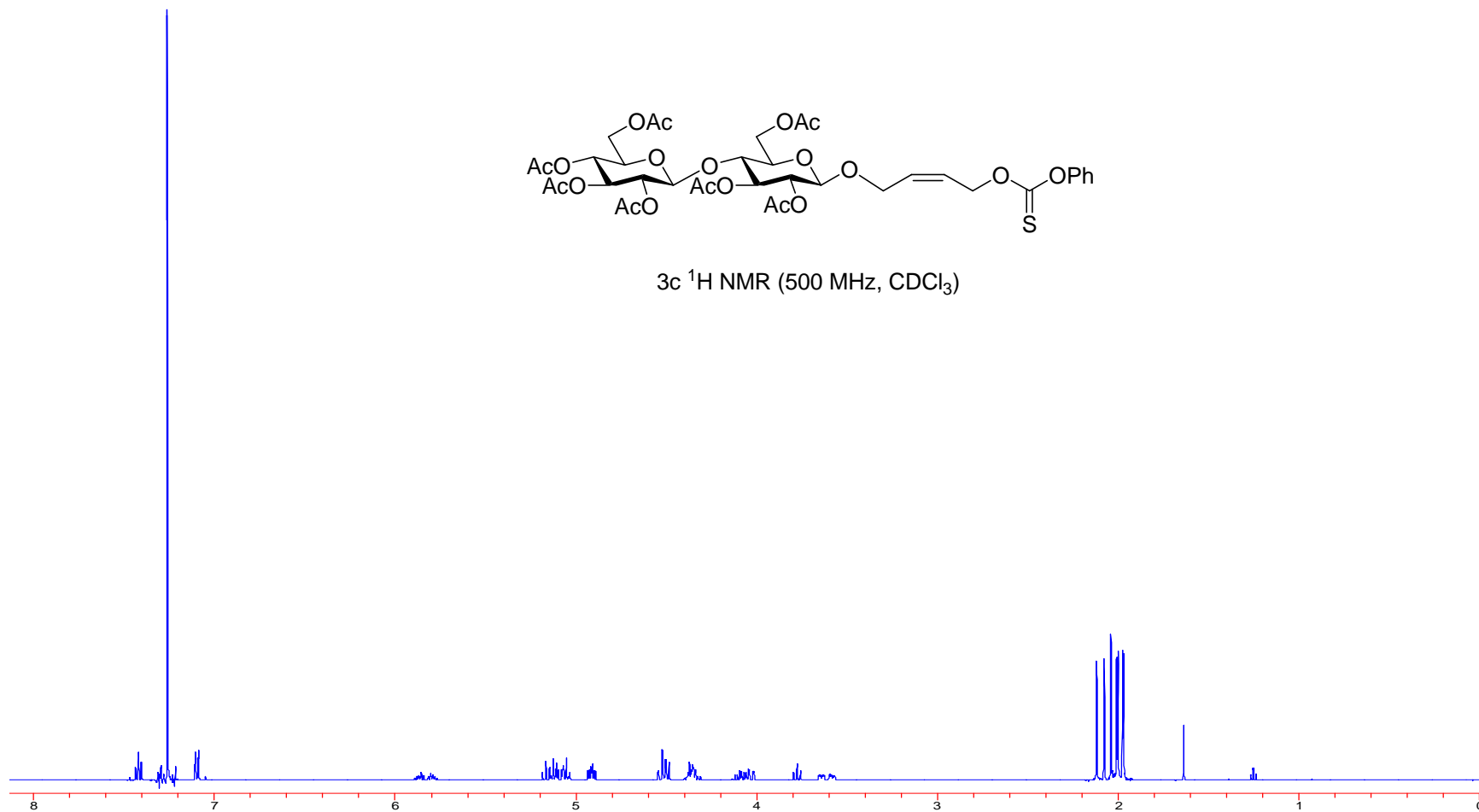


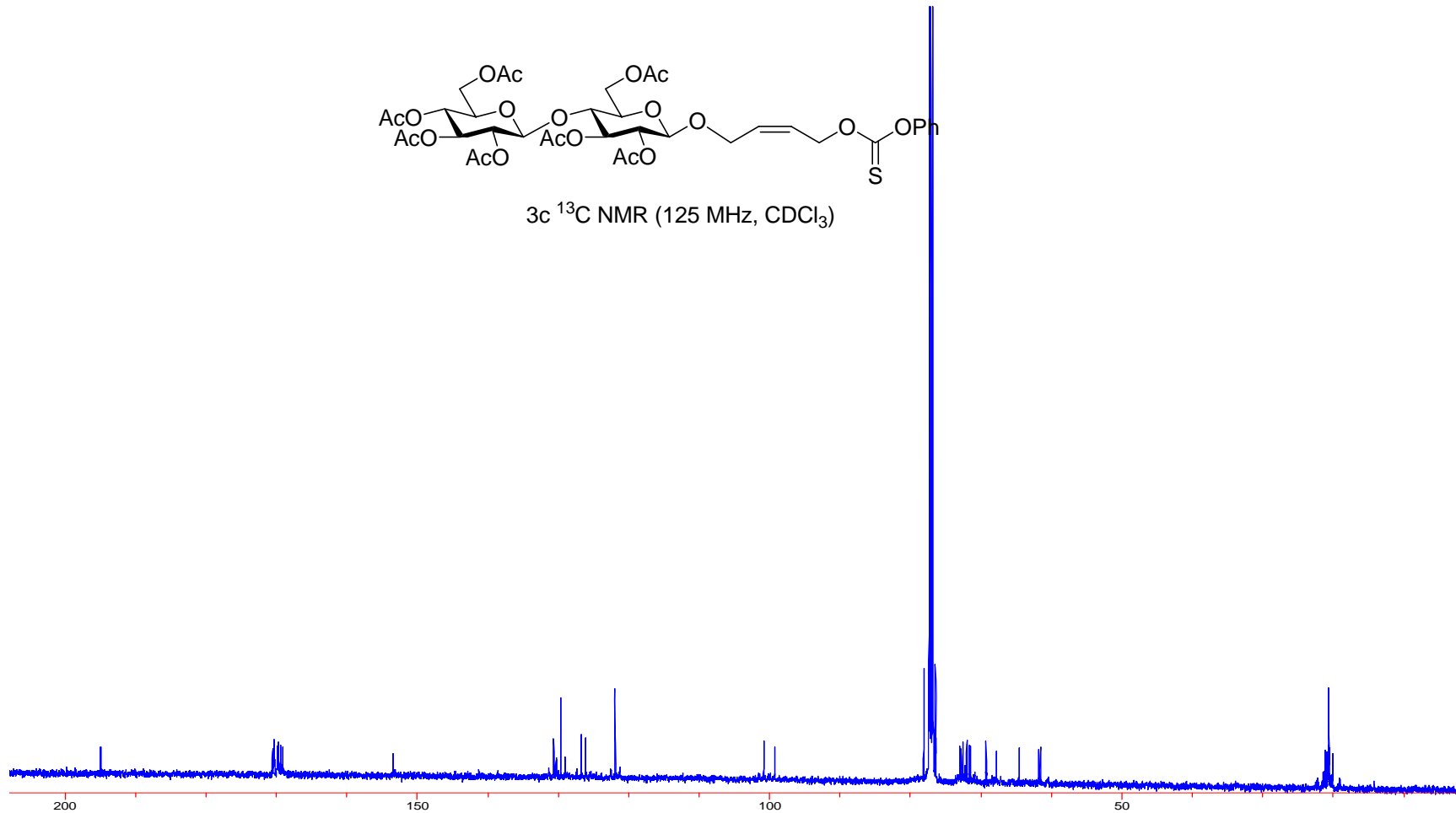
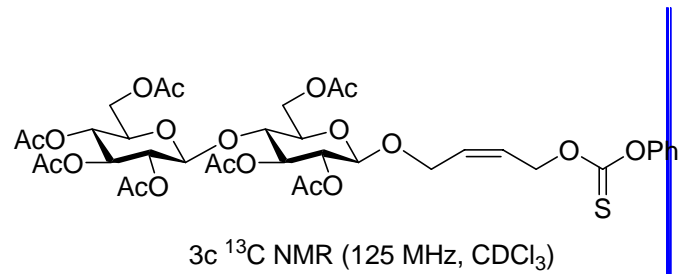
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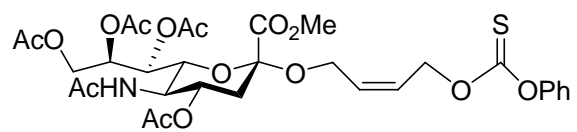




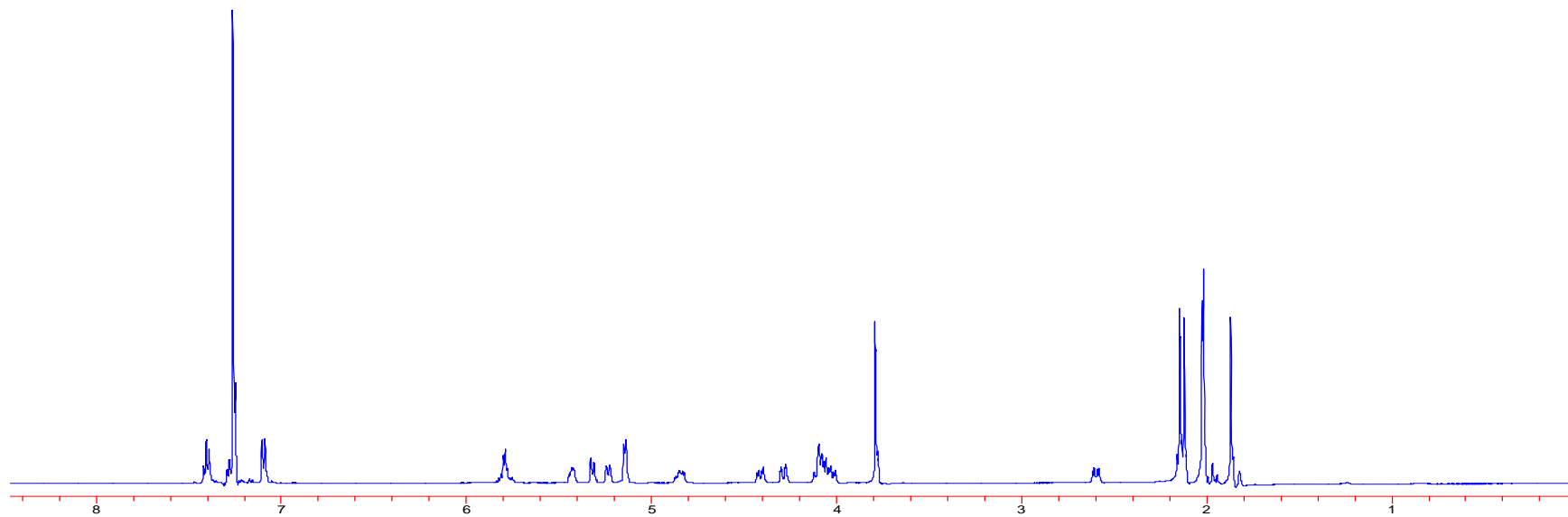
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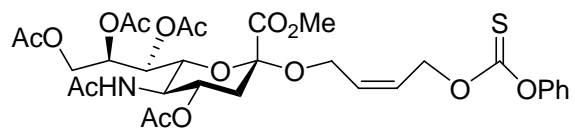




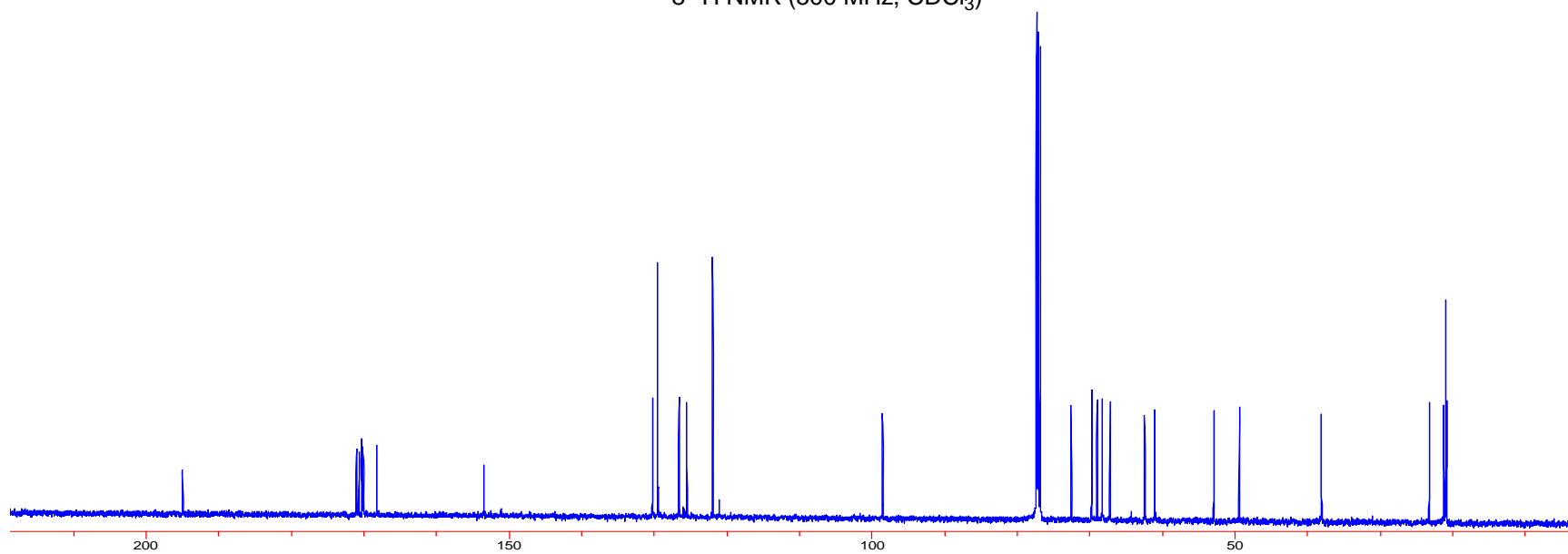


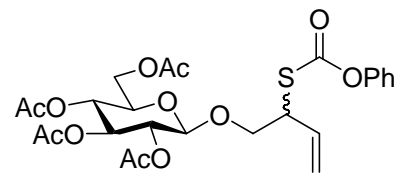
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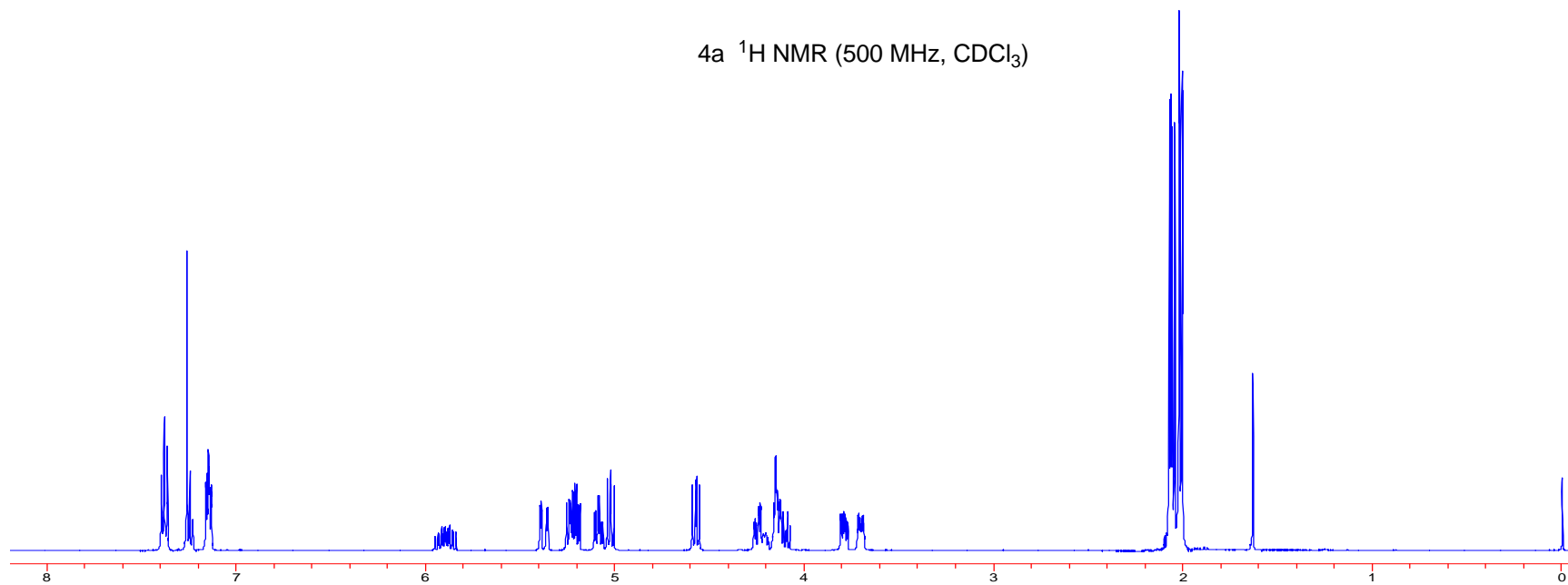


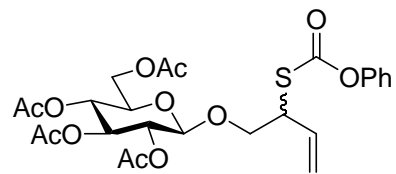
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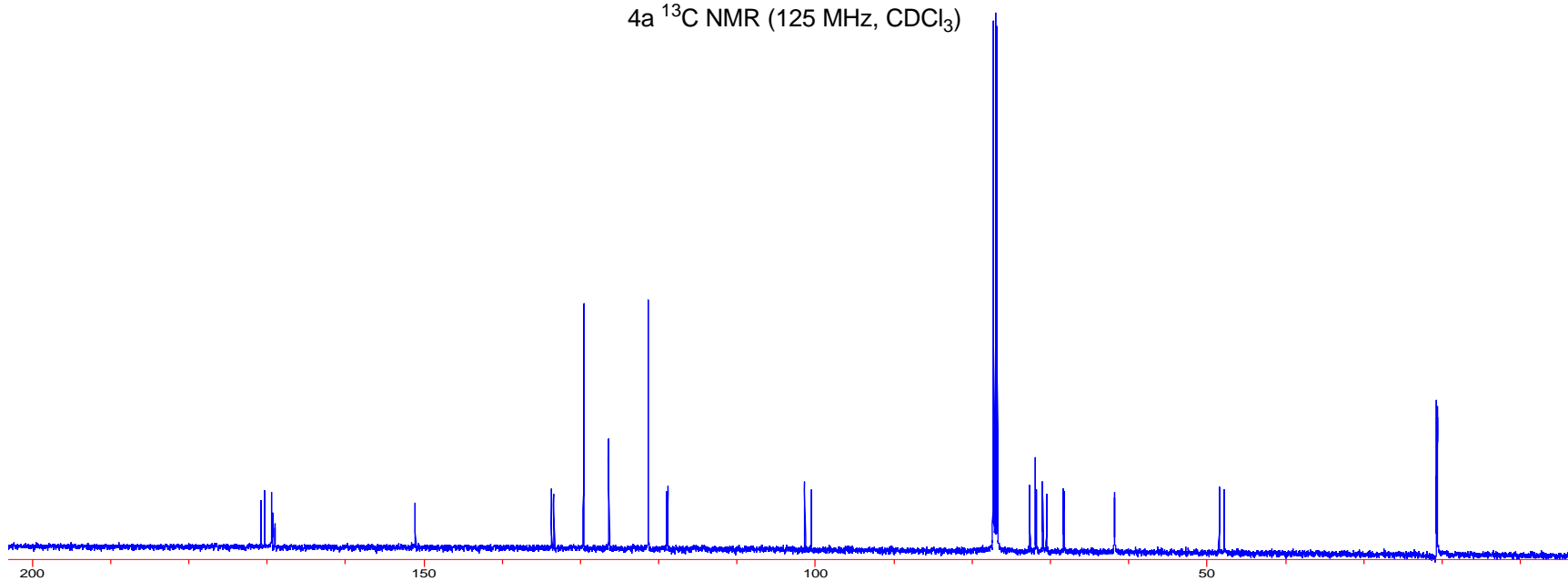


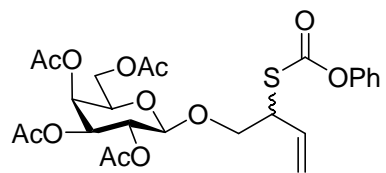
4a ^1H NMR (500 MHz, CDCl_3)



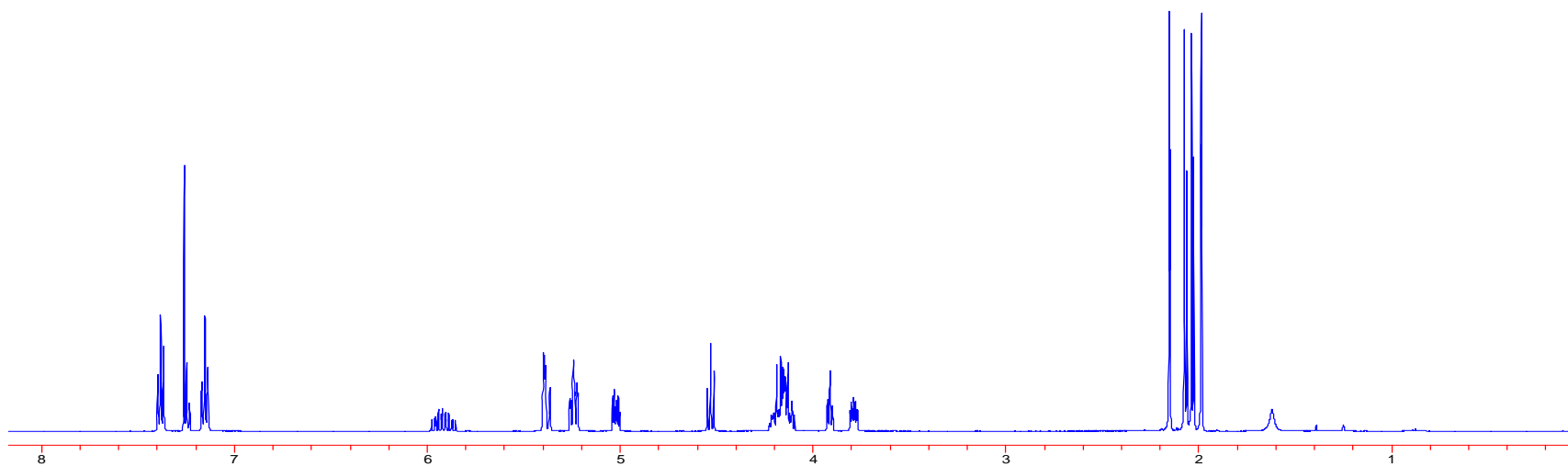


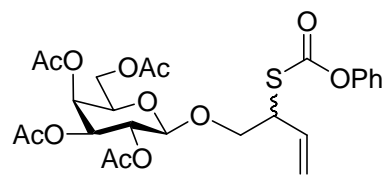
4a ^{13}C NMR (125 MHz, CDCl_3)



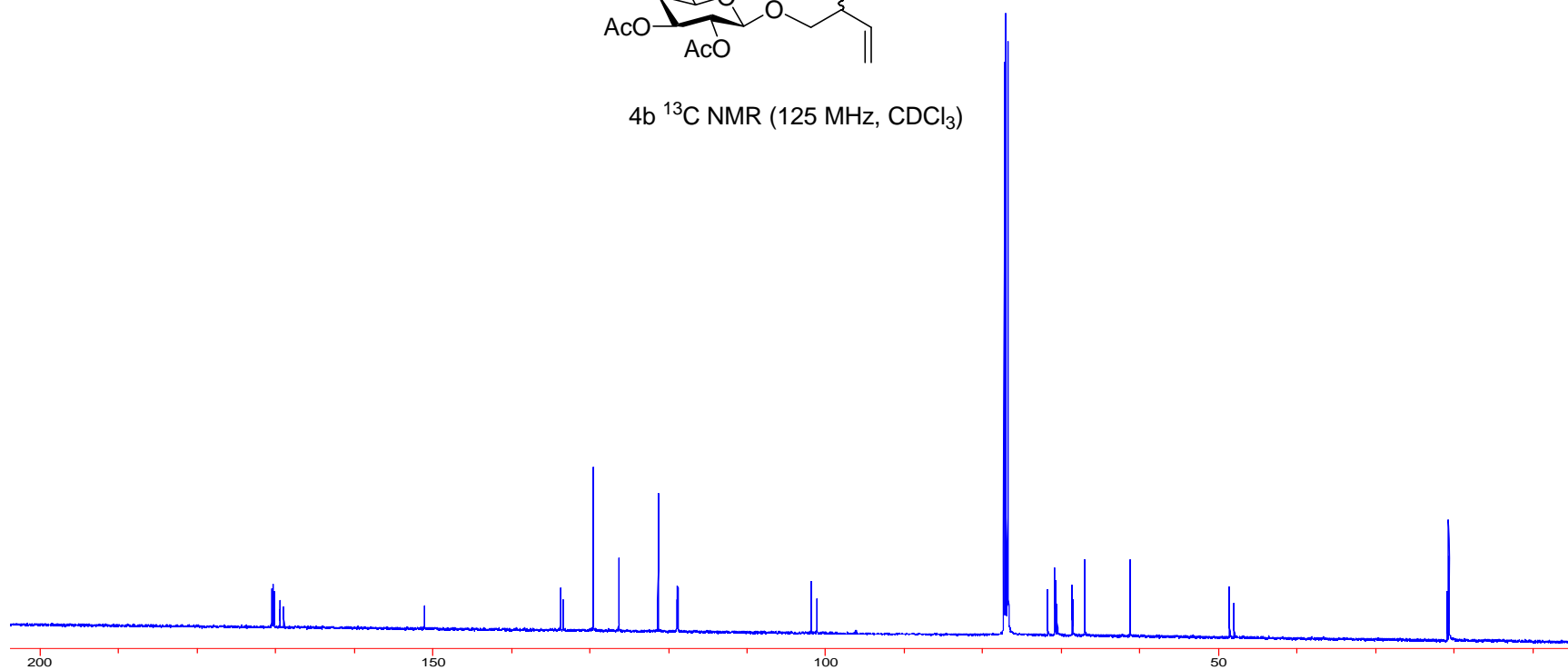


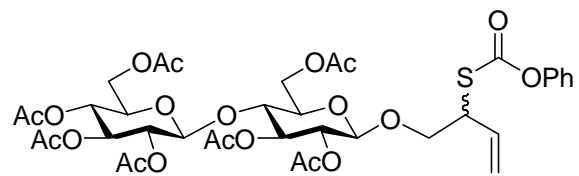
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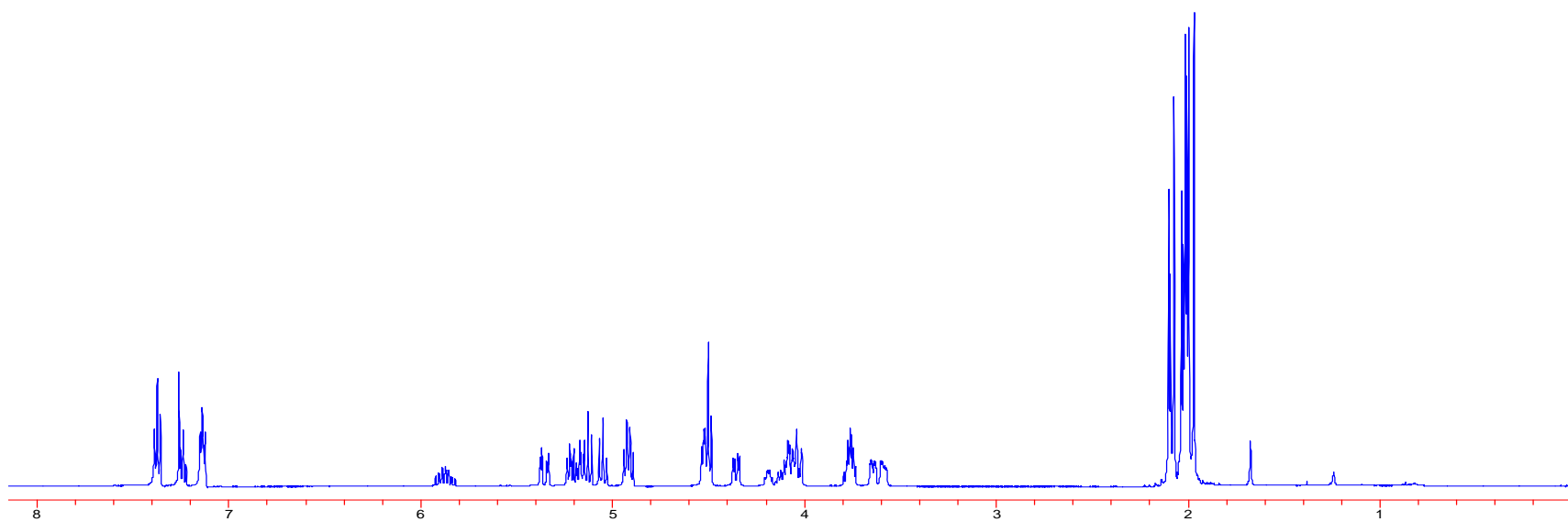


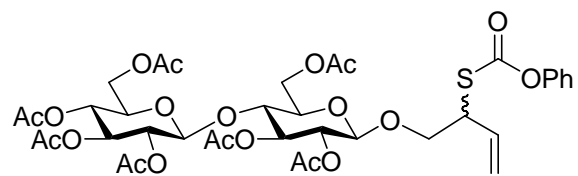
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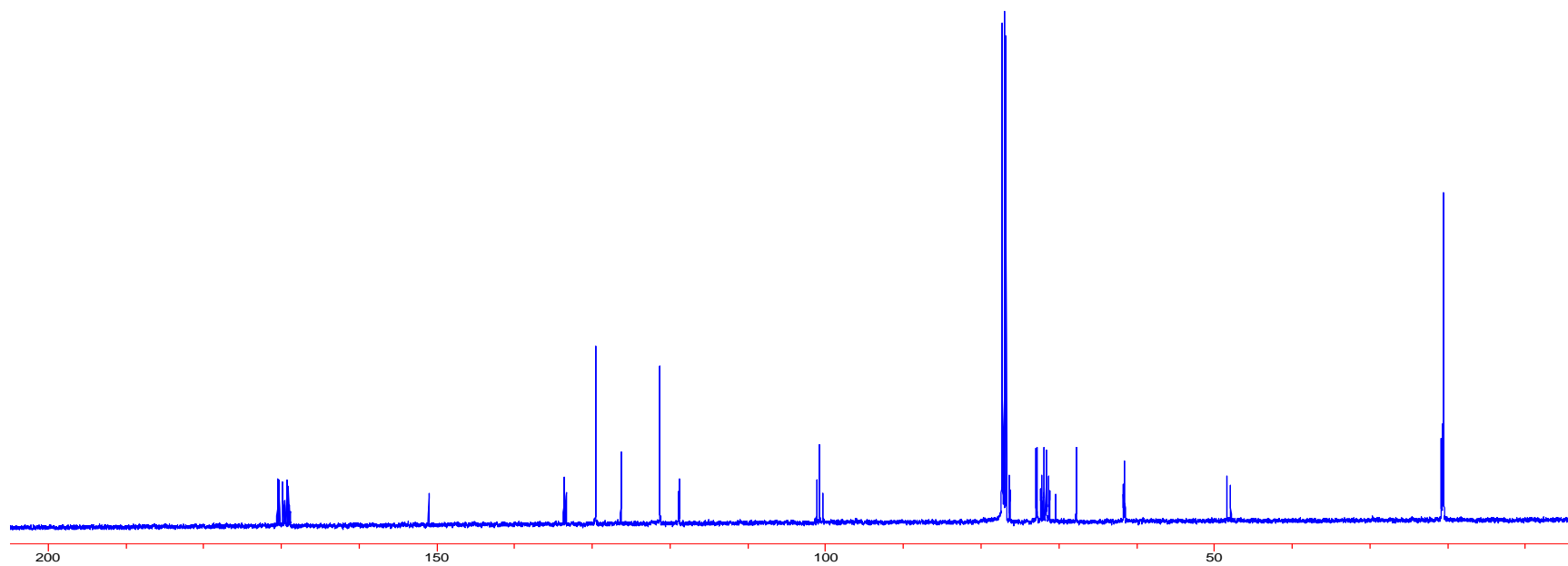


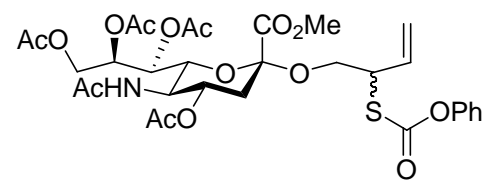
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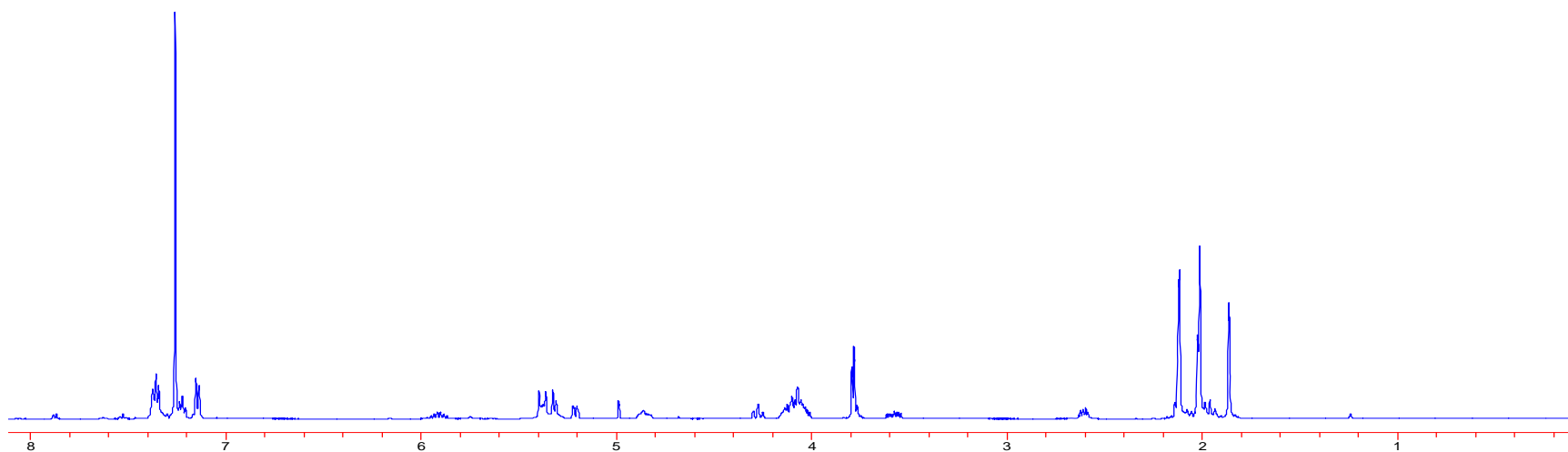


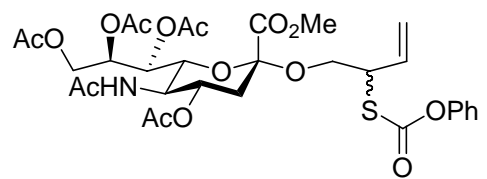
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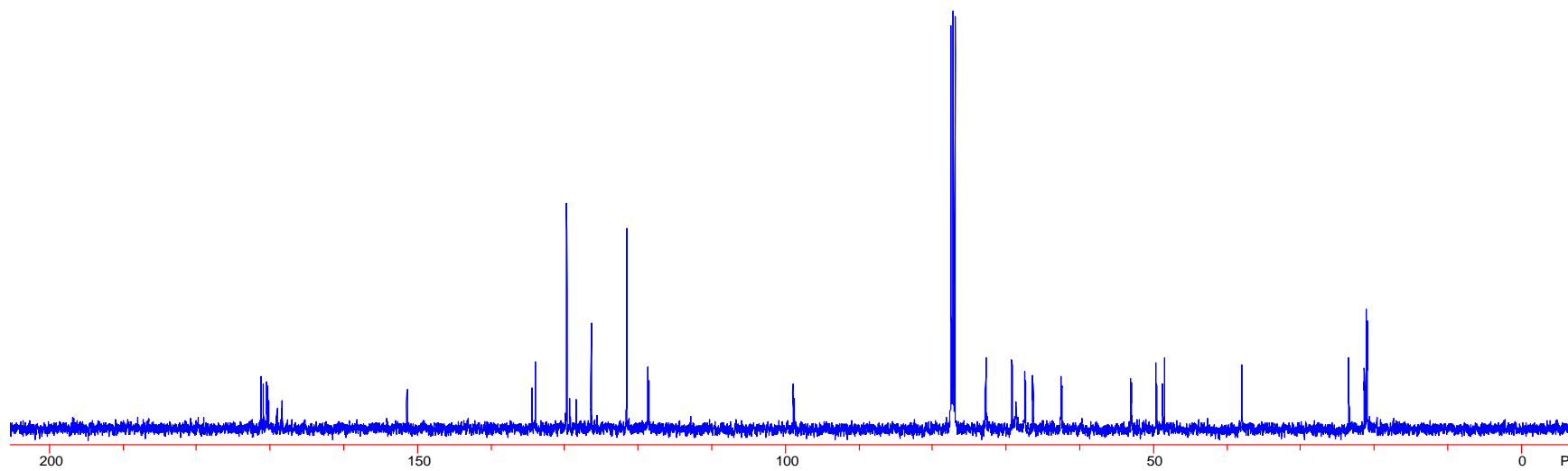


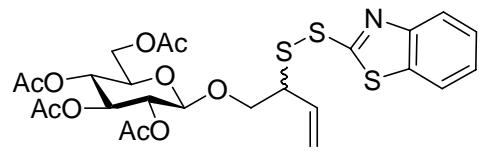
9 ¹H NMR (500 MHz, CDCl₃)



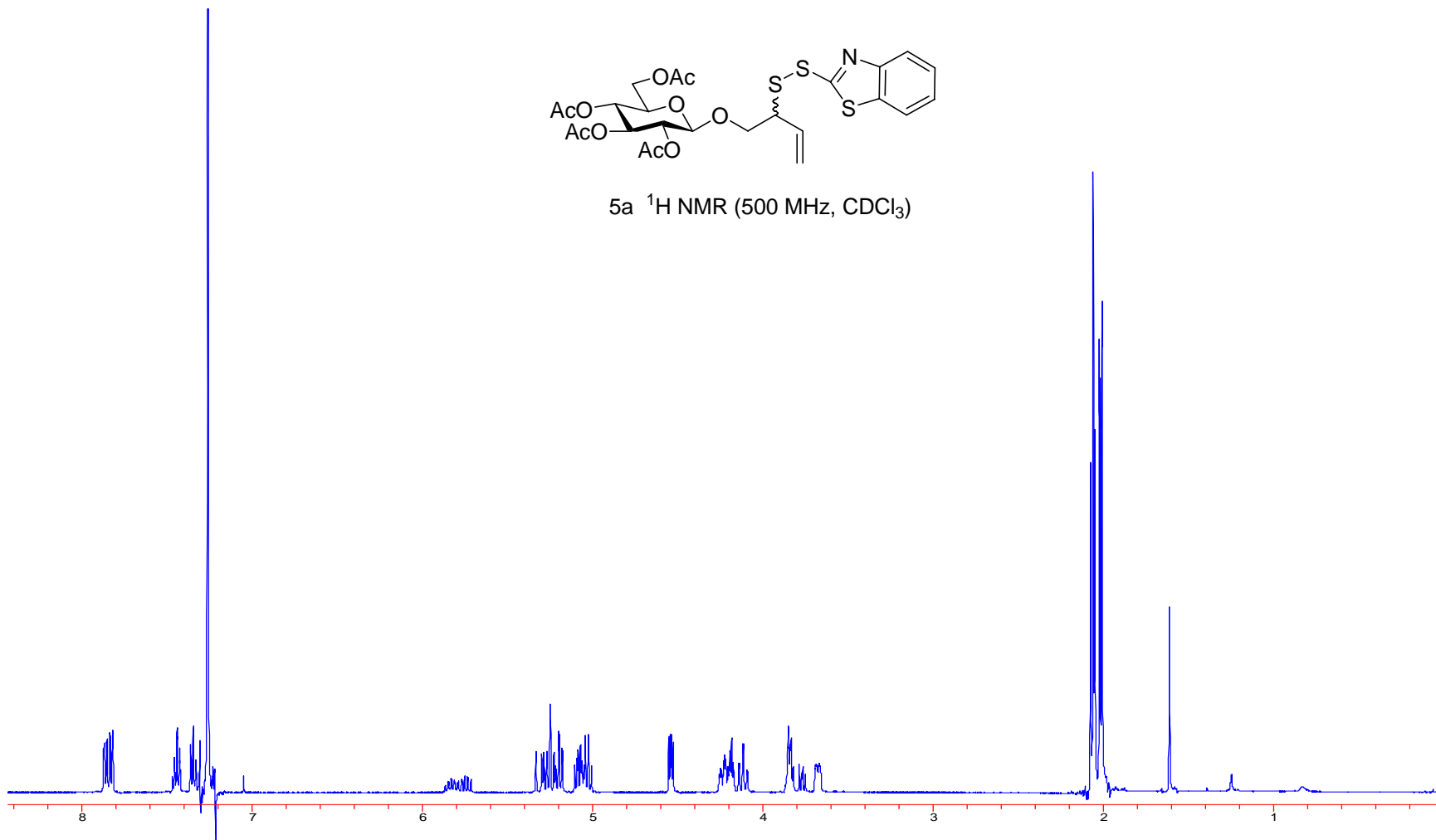


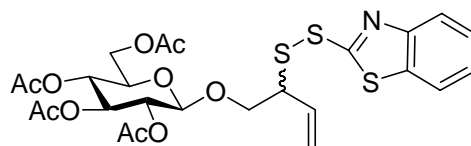
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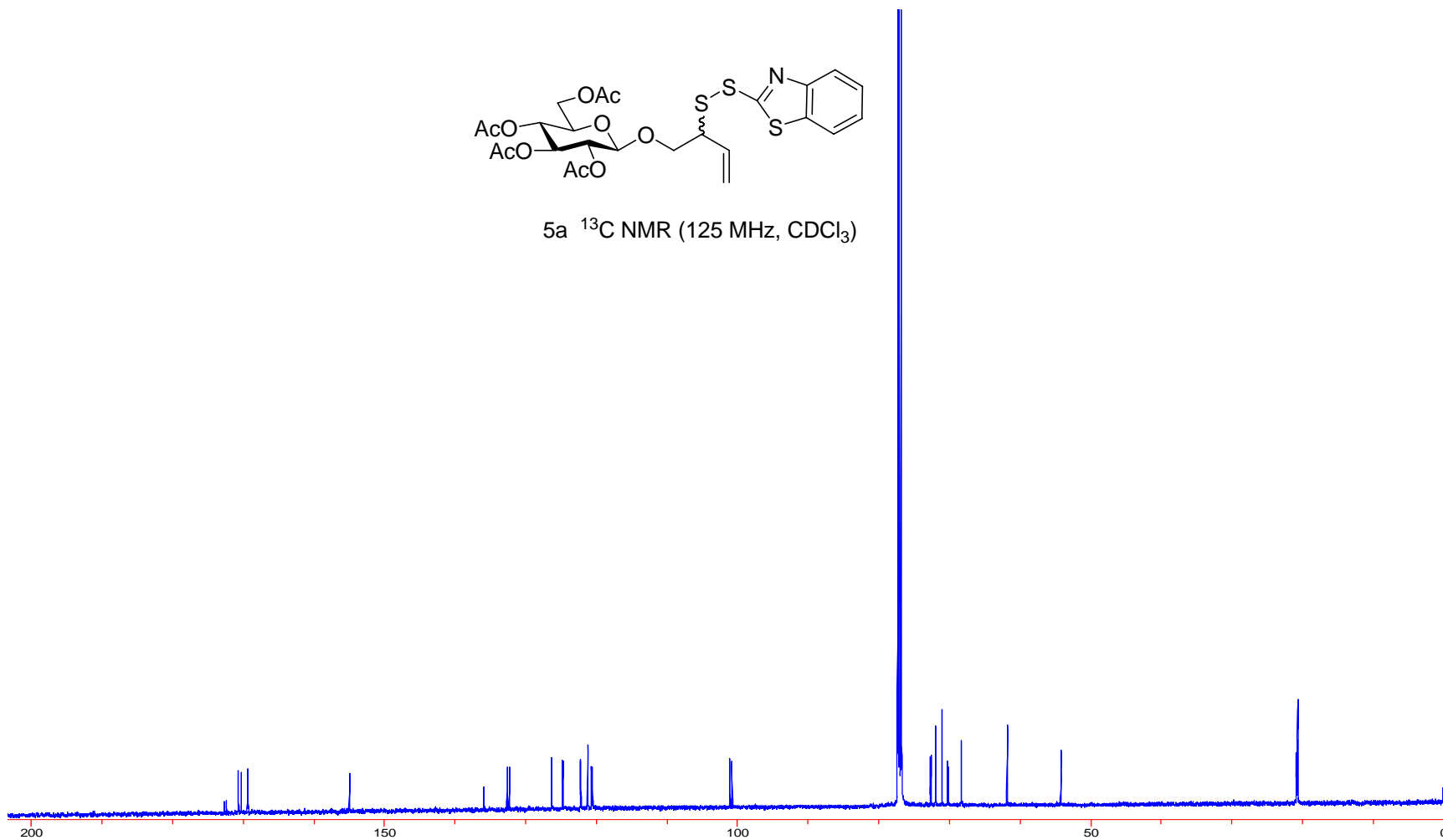


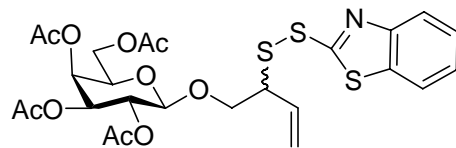
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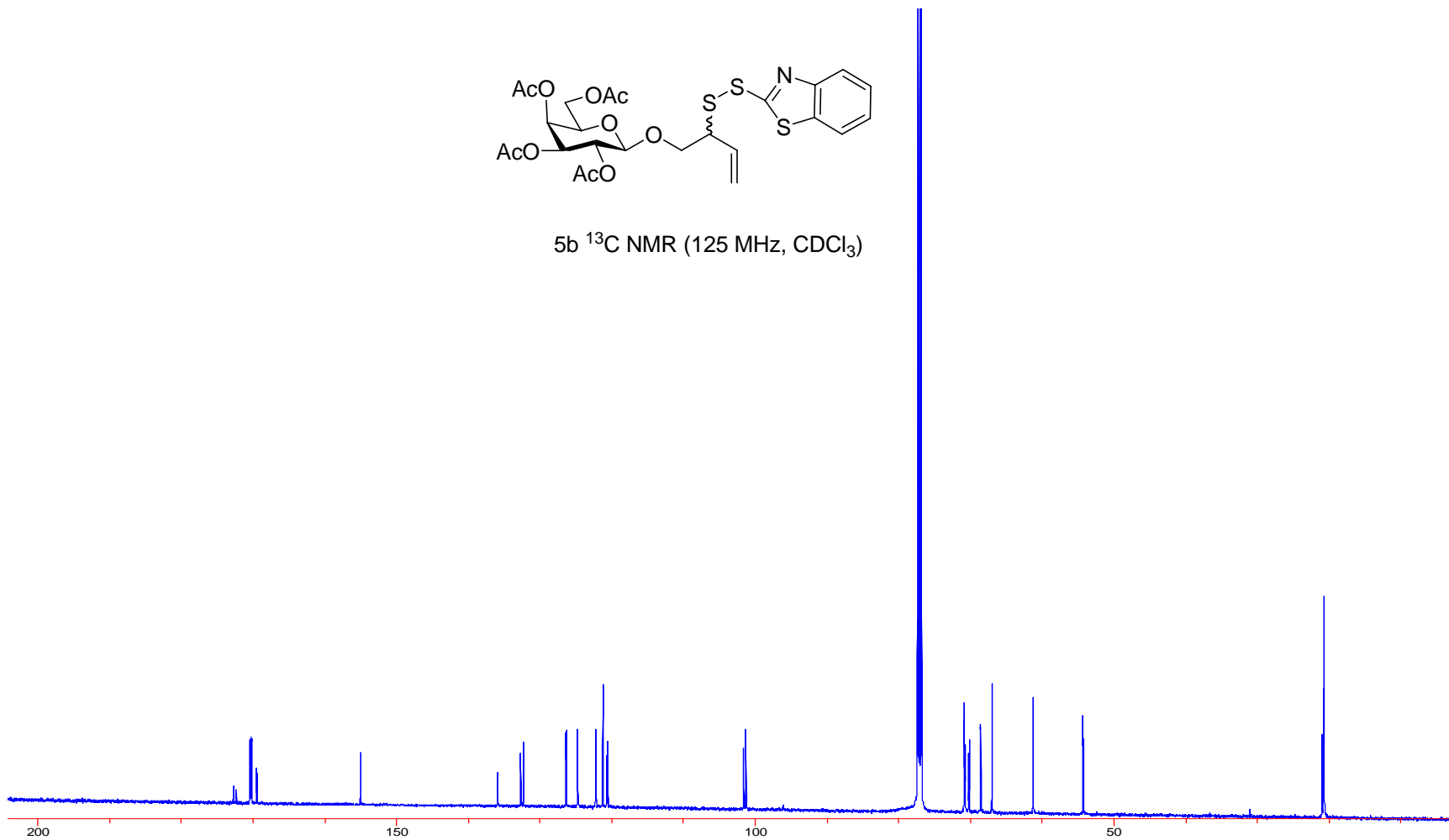


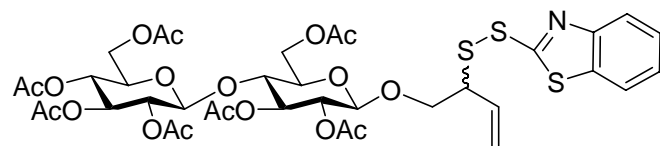
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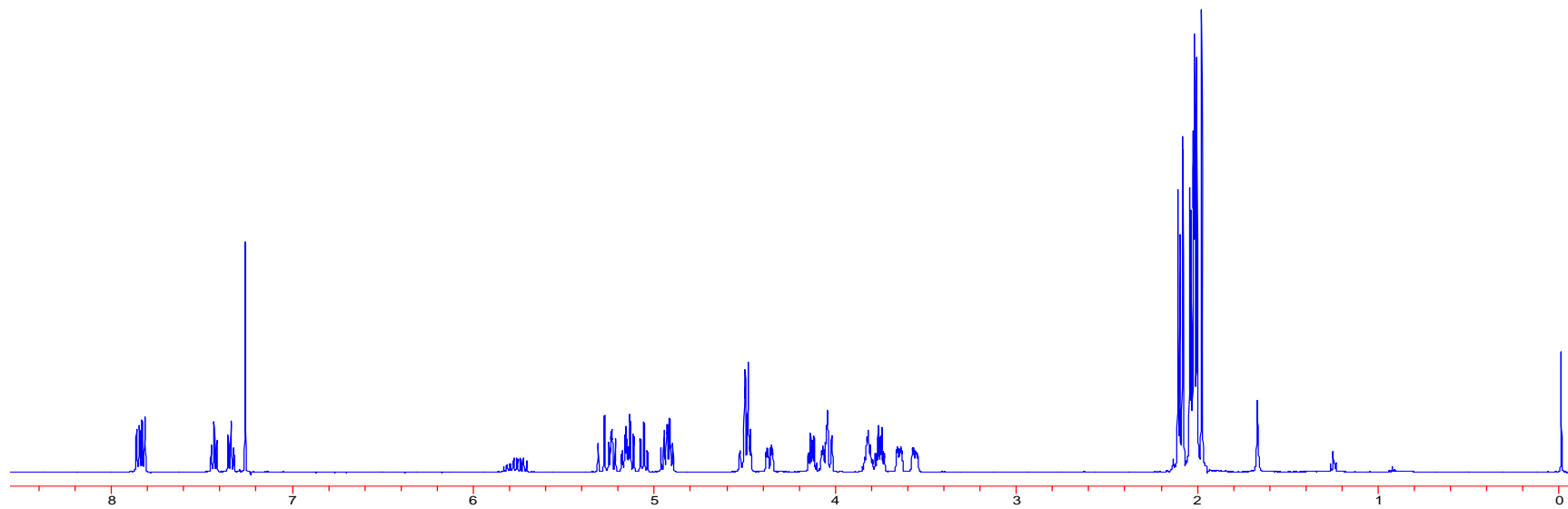


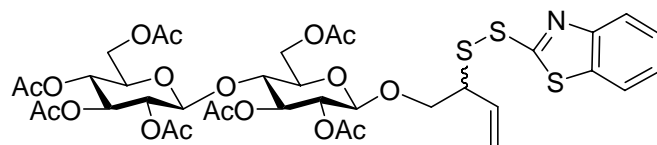
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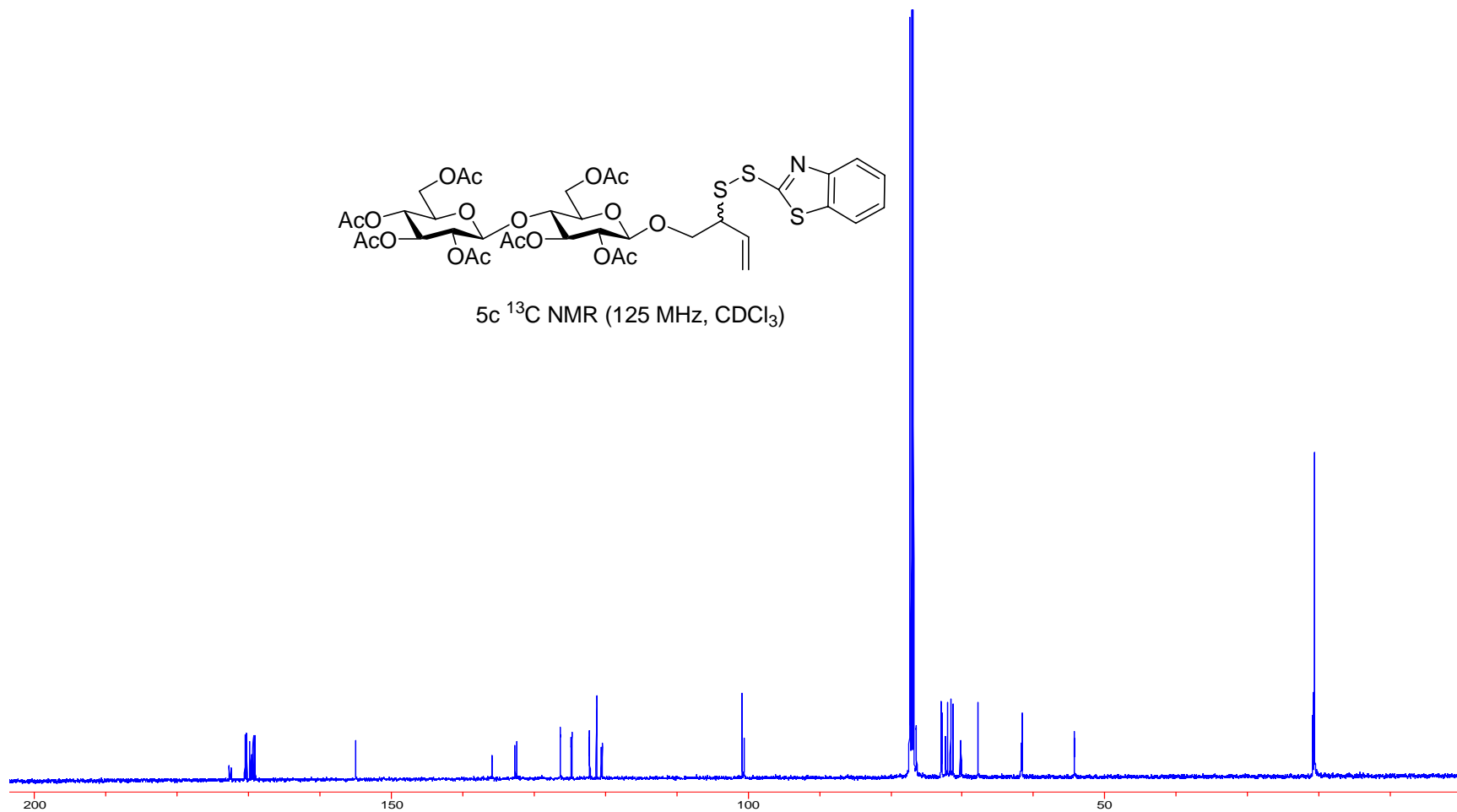


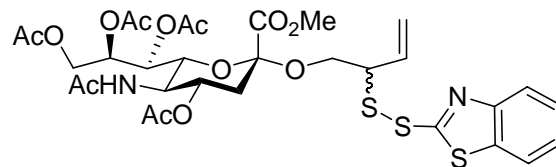
5c ^1H NMR (500 MHz, CDCl_3)



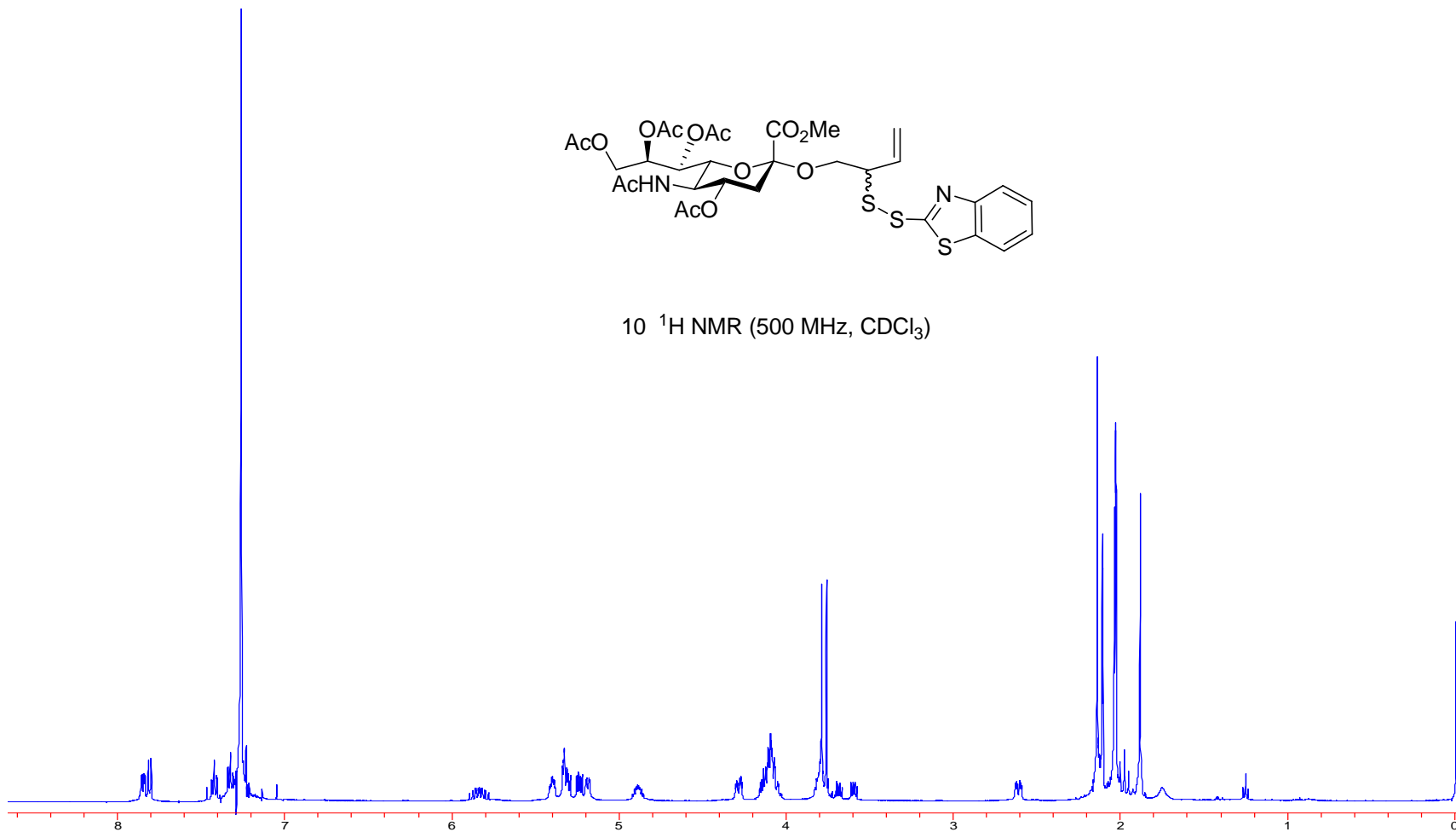


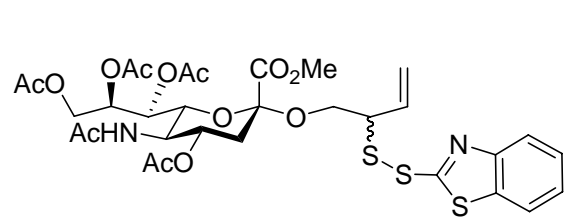
5c ^{13}C NMR (125 MHz, CDCl_3)



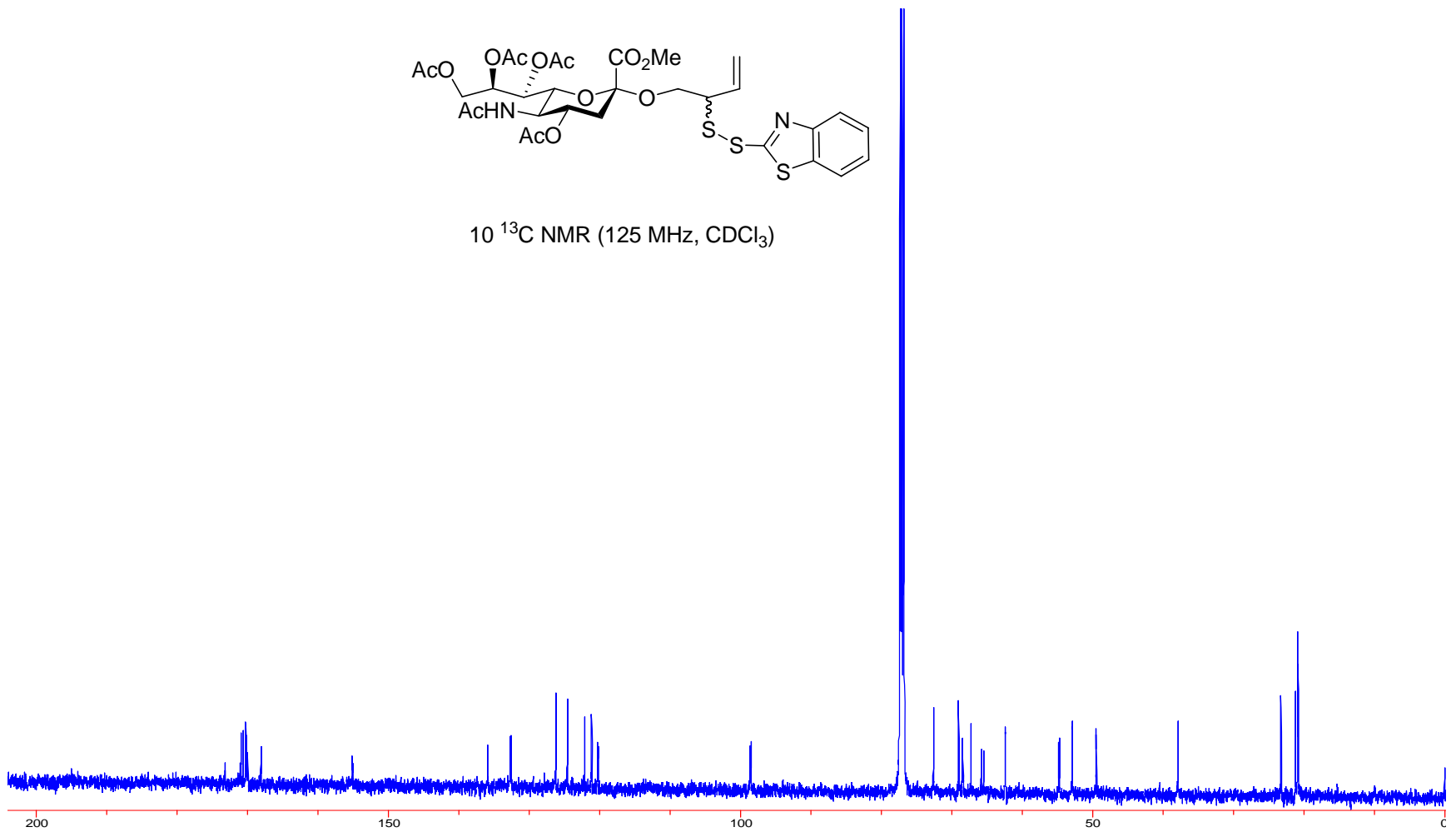


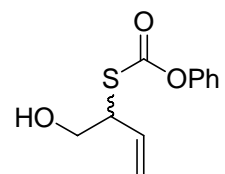
10 ^1H NMR (500 MHz, CDCl_3)



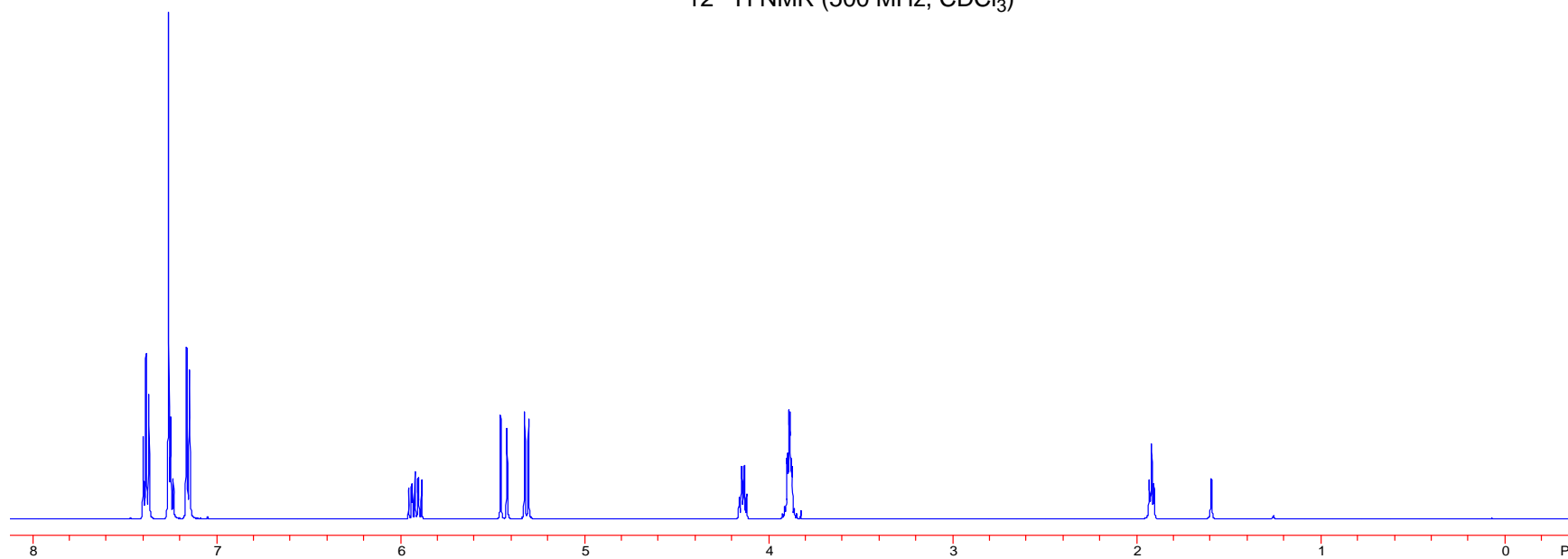


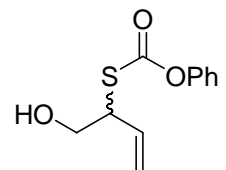
10 ¹³C NMR (125 MHz, CDCl₃)



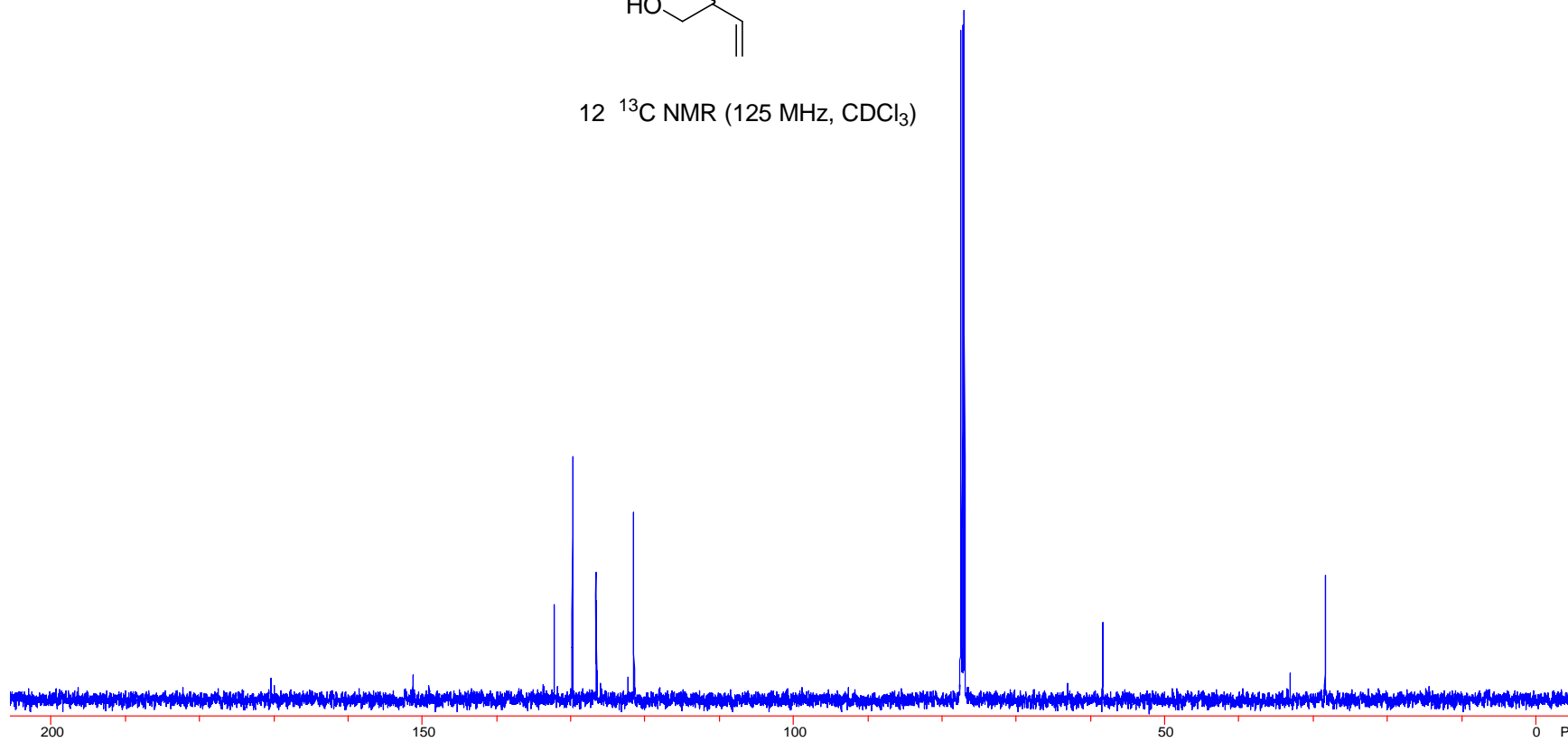


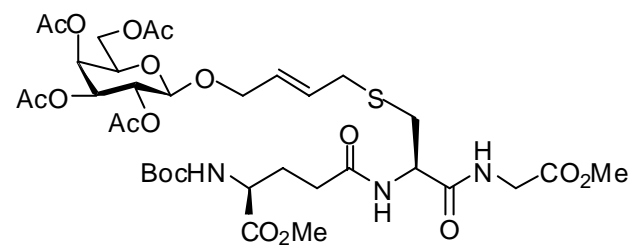
12 ^1H NMR (500 MHz, CDCl_3)



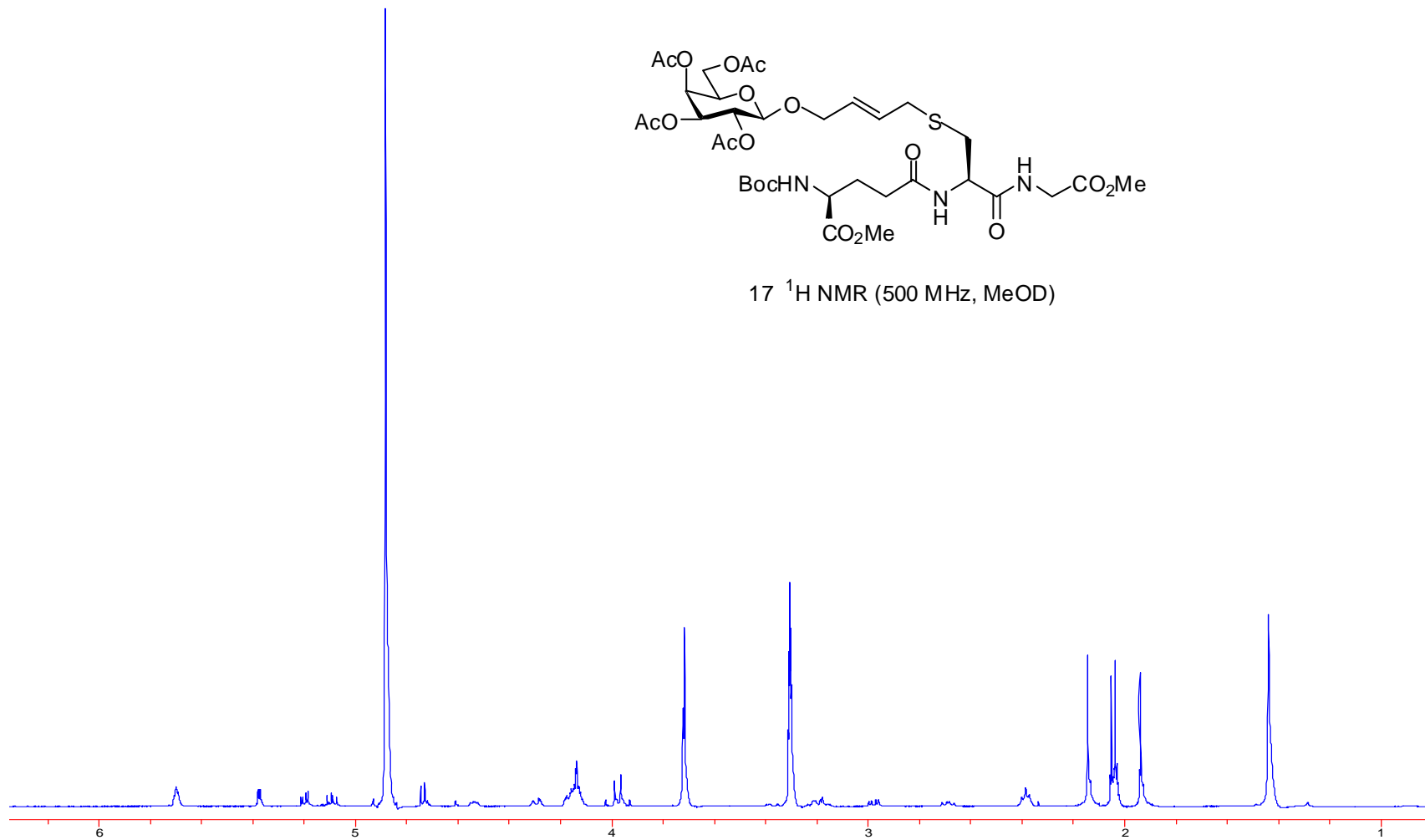


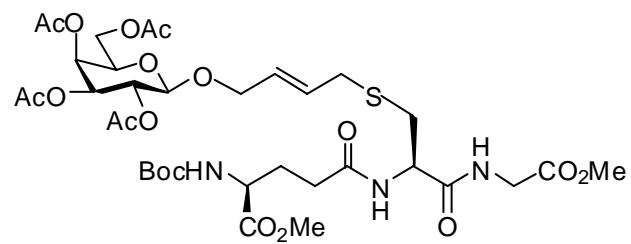
12 ^{13}C NMR (125 MHz, CDCl_3)



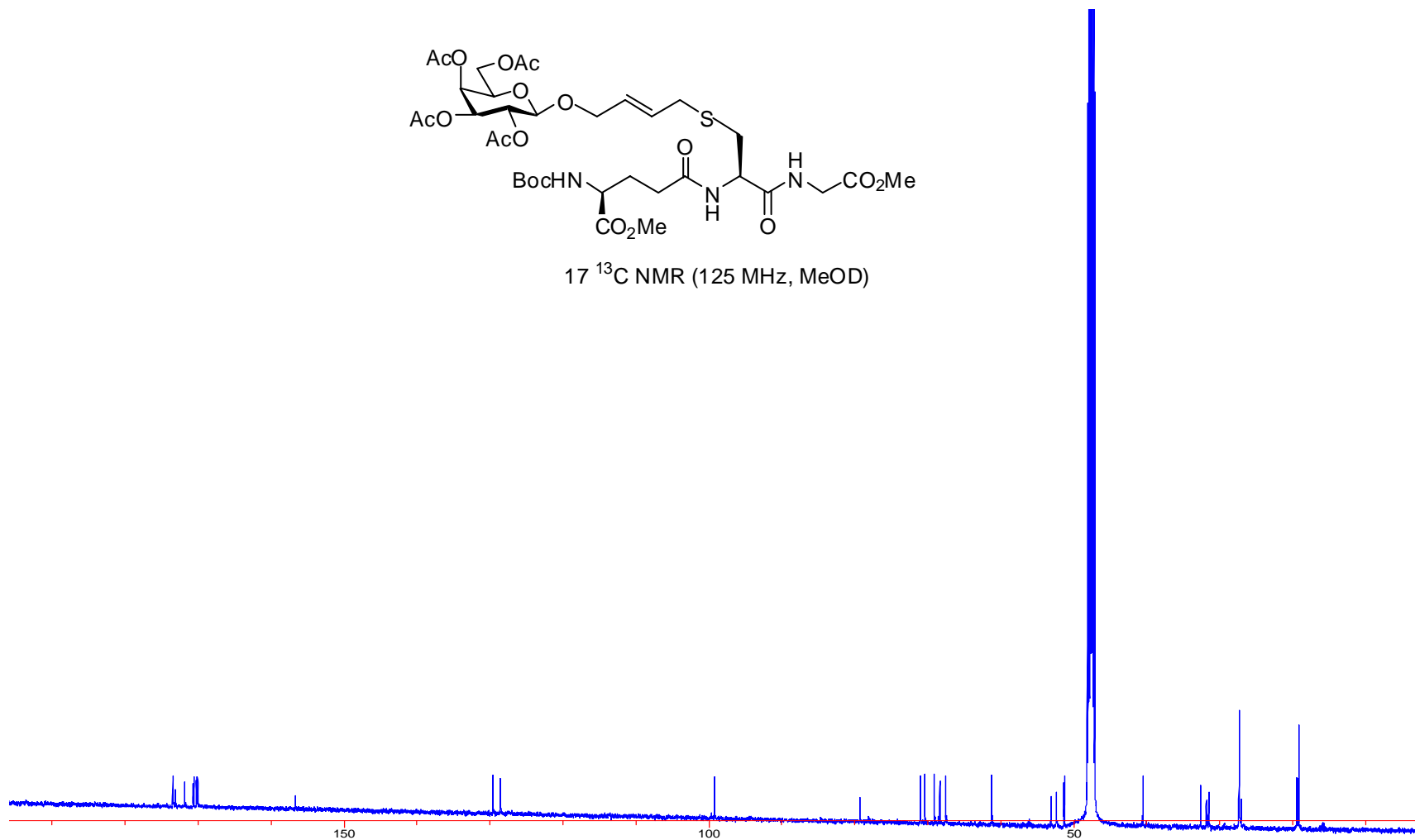


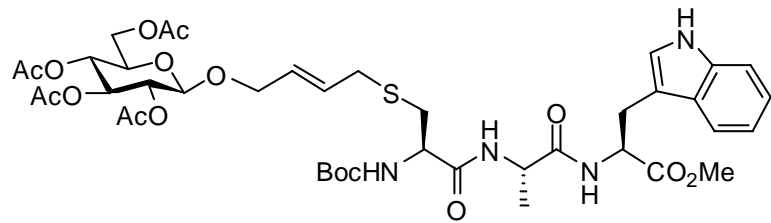
17 ¹H NMR (500 MHz, MeOD)



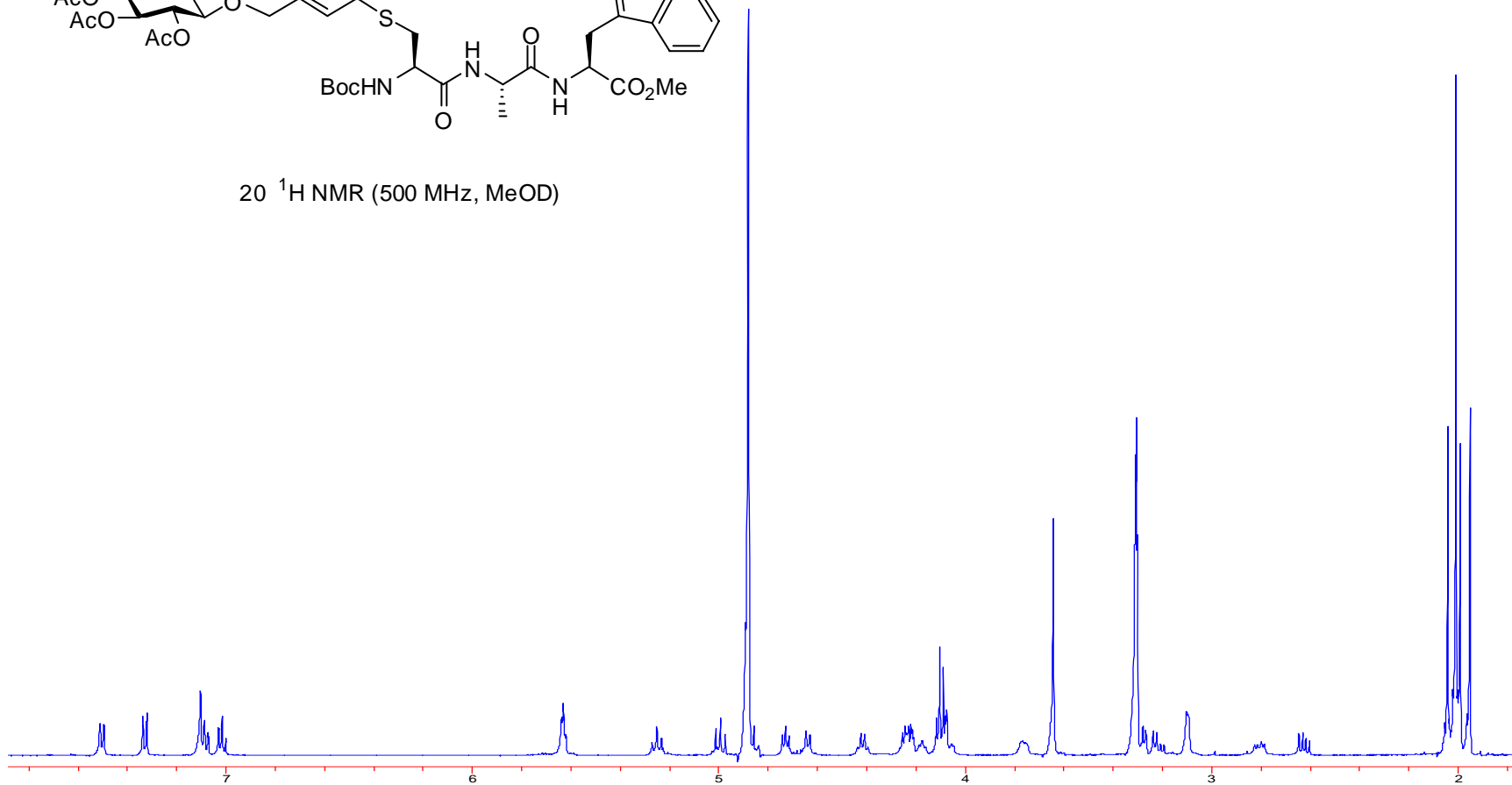


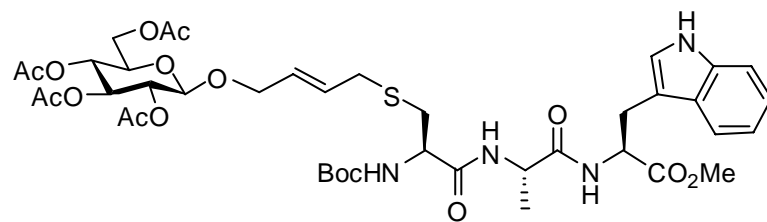
17 ^{13}C NMR (125 MHz, MeOD)



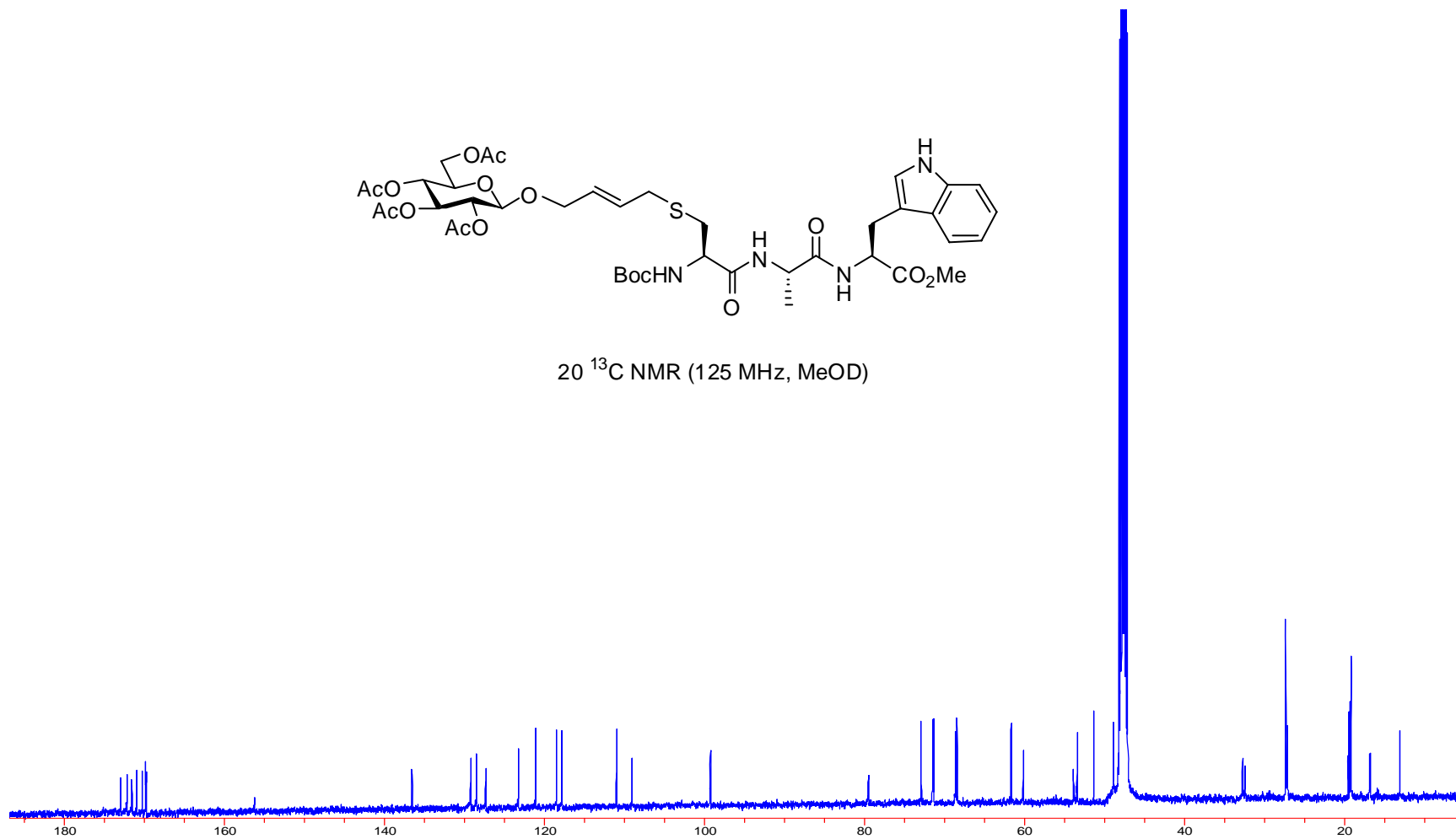


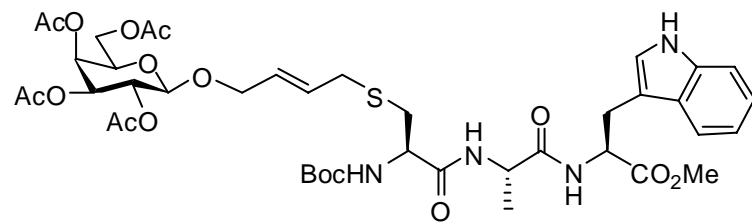
20 ^1H NMR (500 MHz, MeOD)



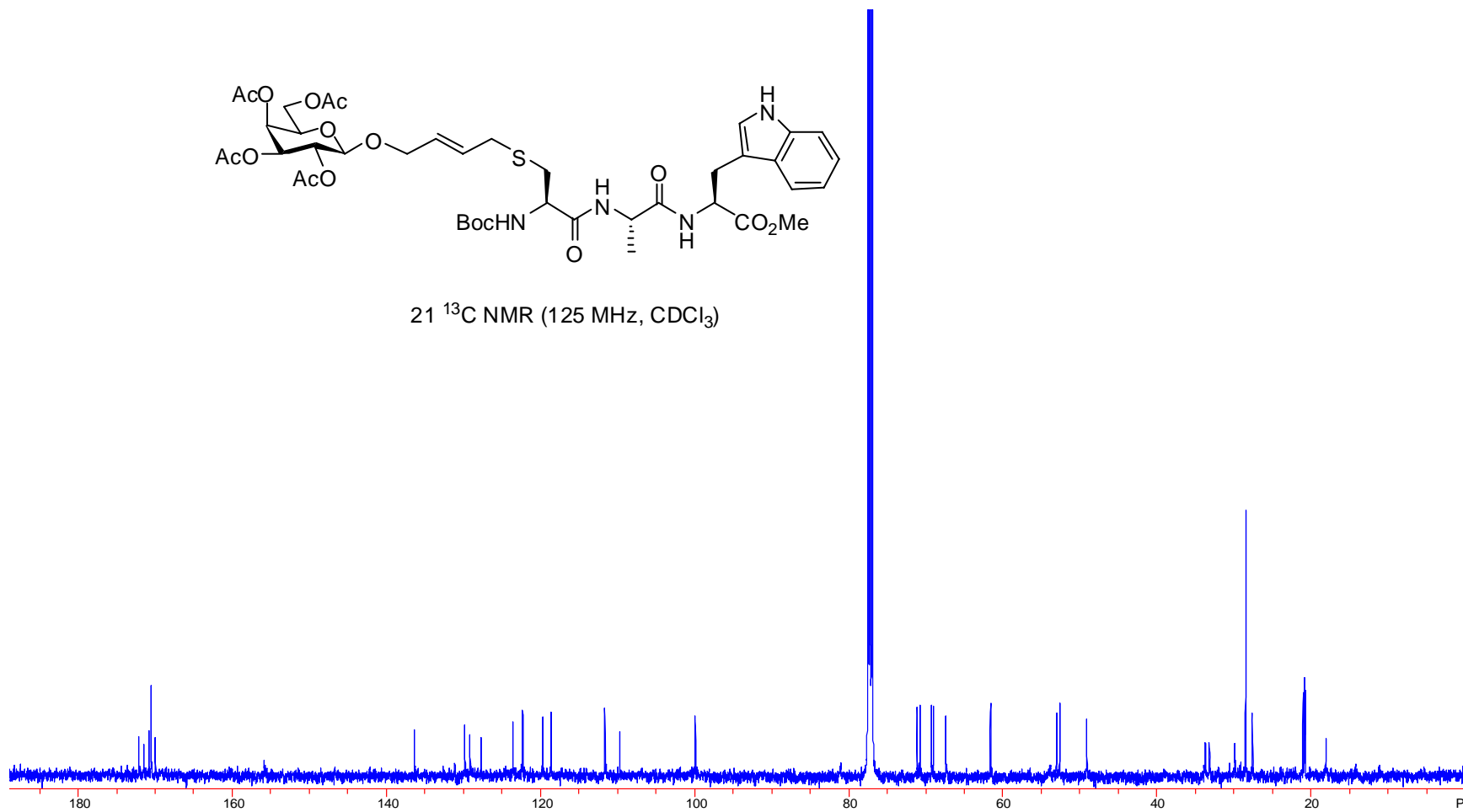


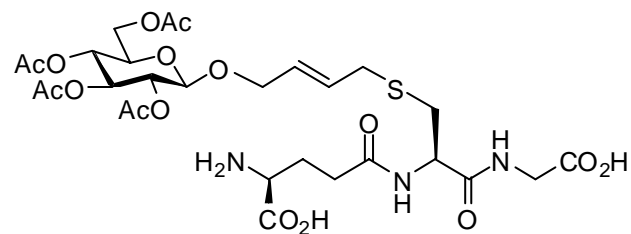
20 ^{13}C NMR (125 MHz, MeOD)



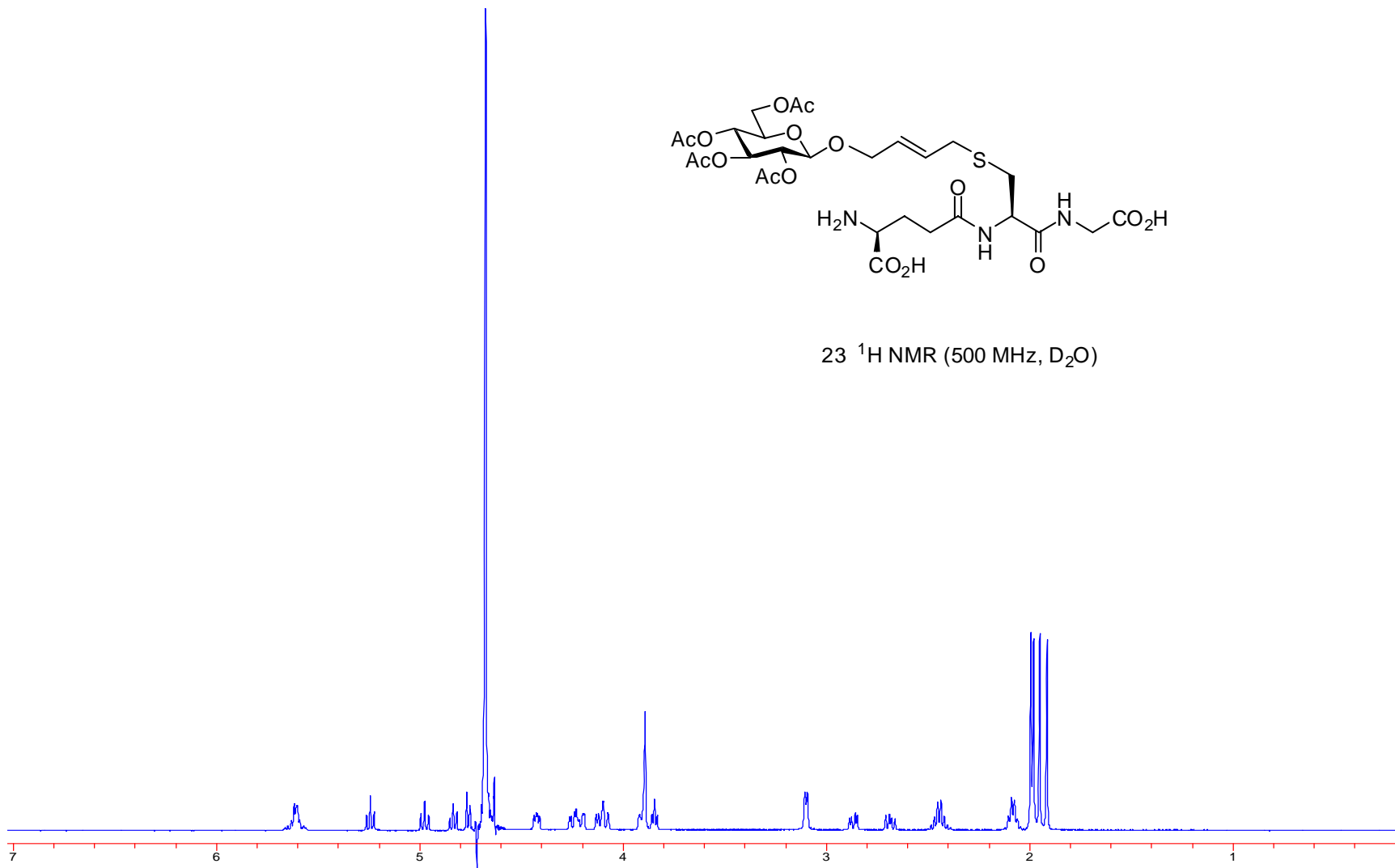


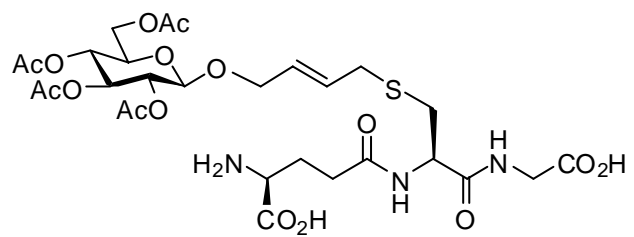
21 ^{13}C NMR (125 MHz, CDCl_3)



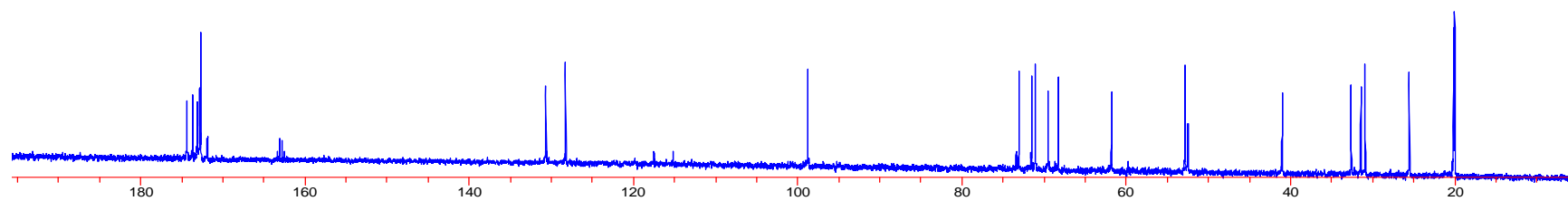


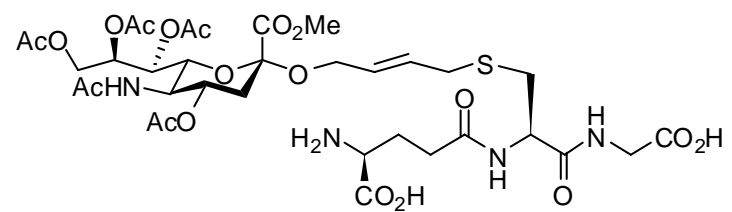
23 ^1H NMR (500 MHz, D_2O)



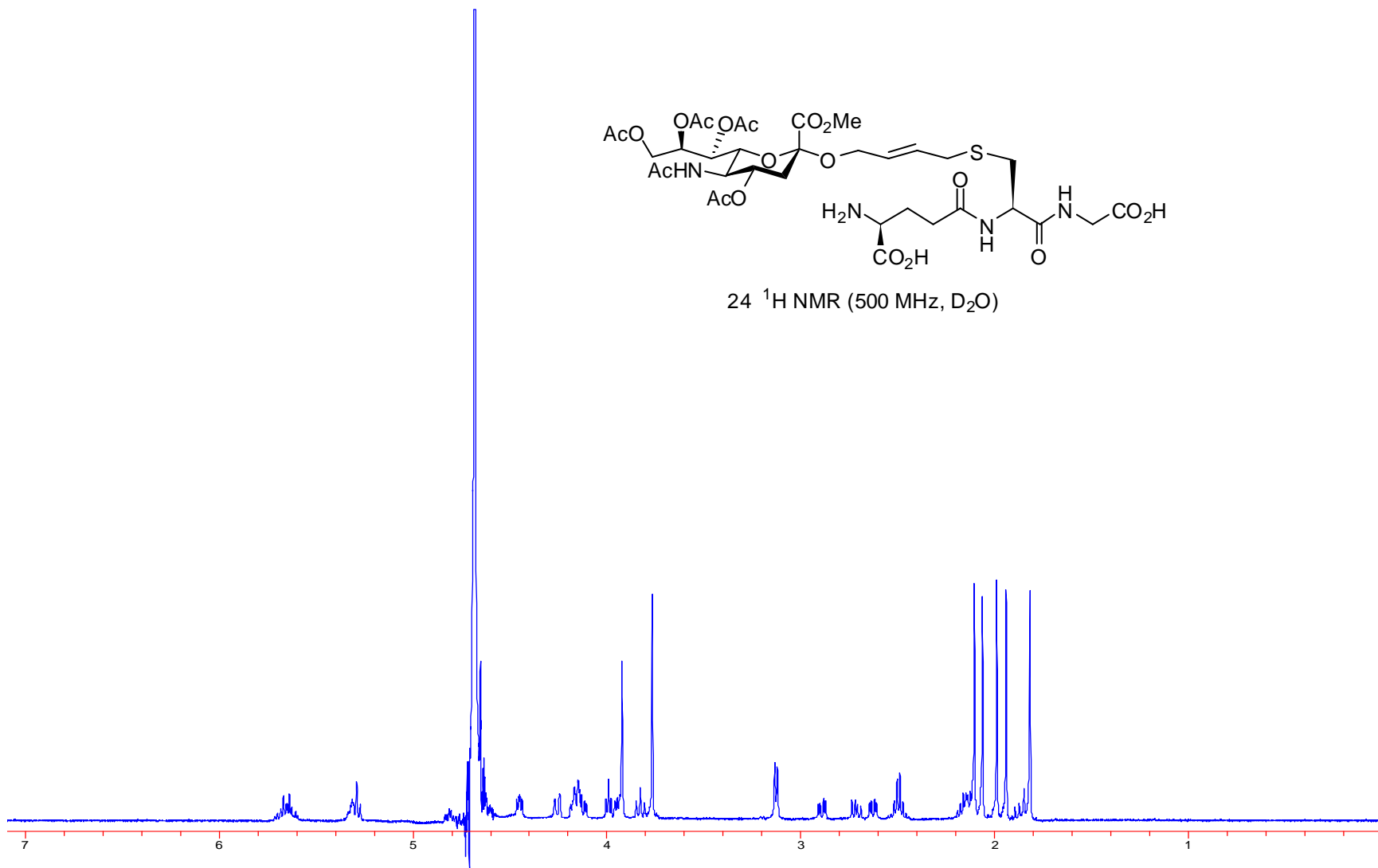


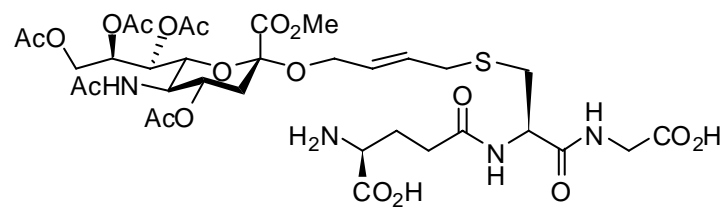
23 ¹³C NMR (125 MHz, D₂O)



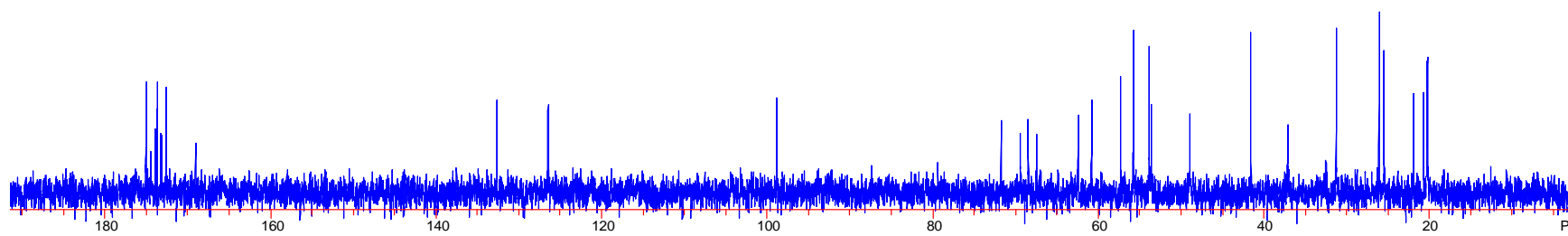


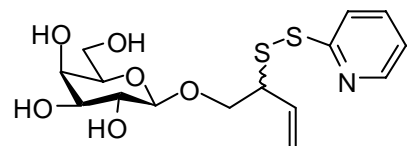
24 ¹H NMR (500 MHz, D₂O)



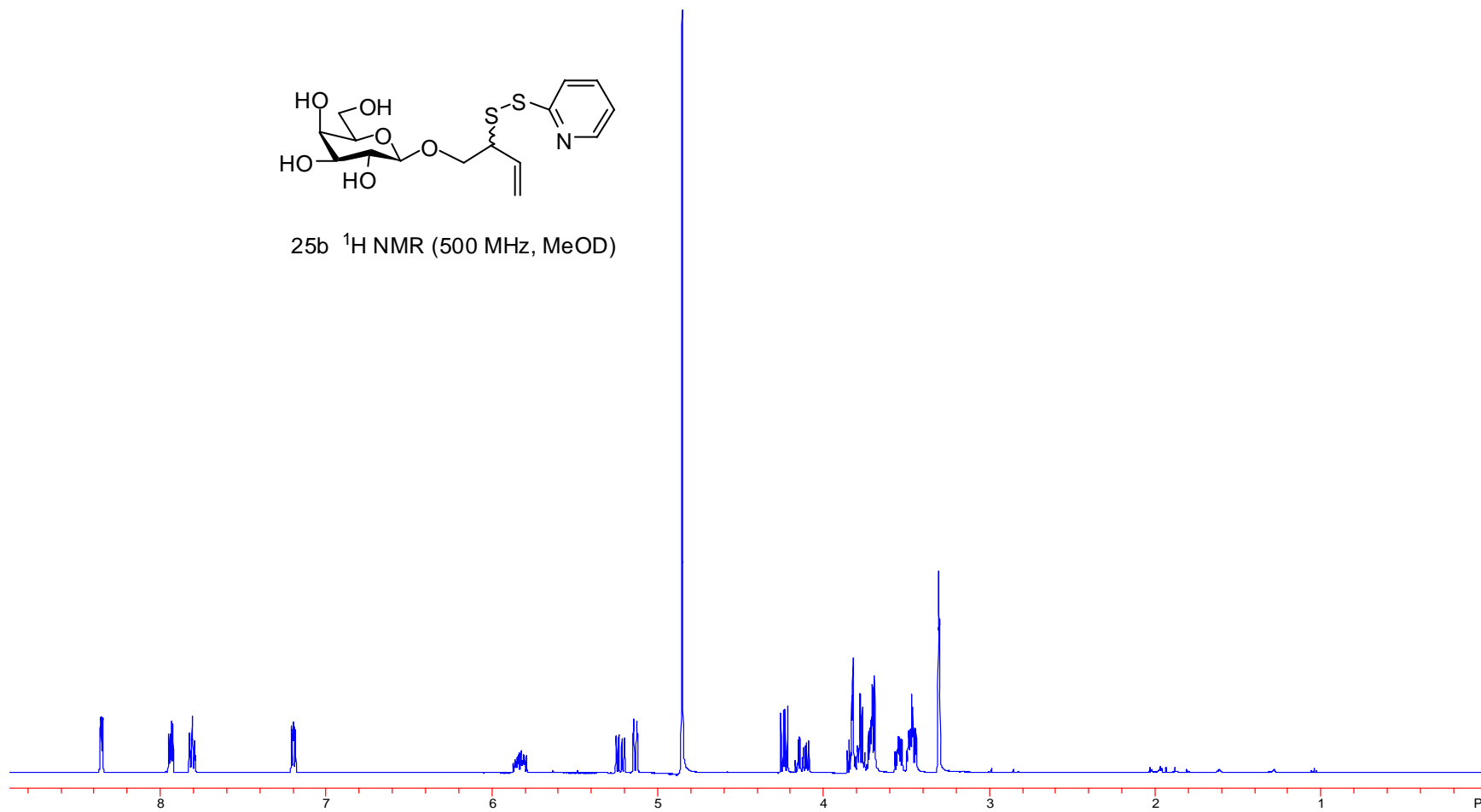


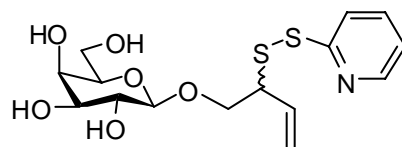
24 ¹³C NMR (125 MHz, D₂O)



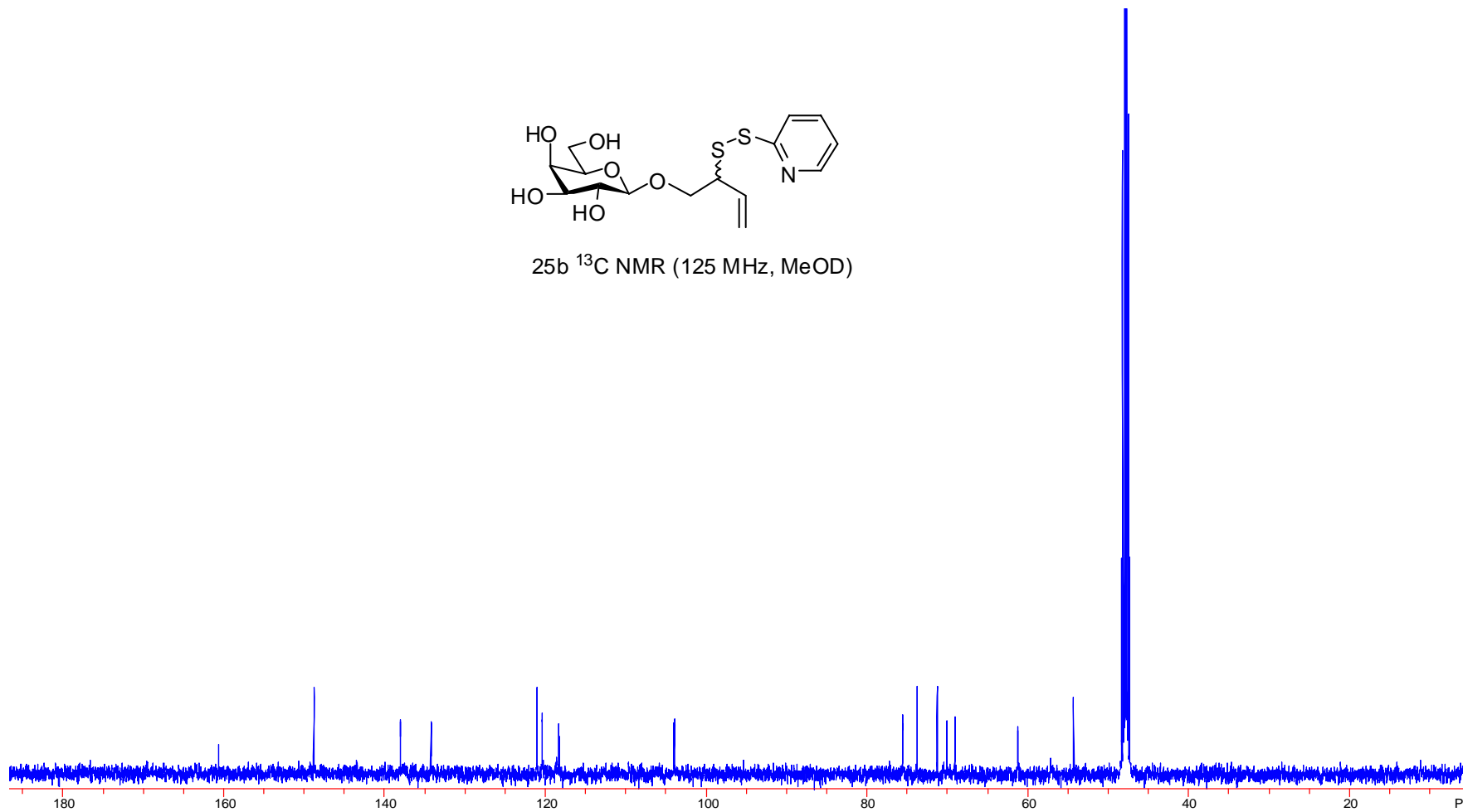


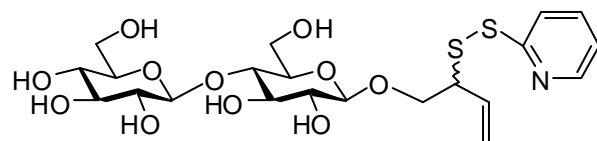
25b ^1H NMR (500 MHz, MeOD)



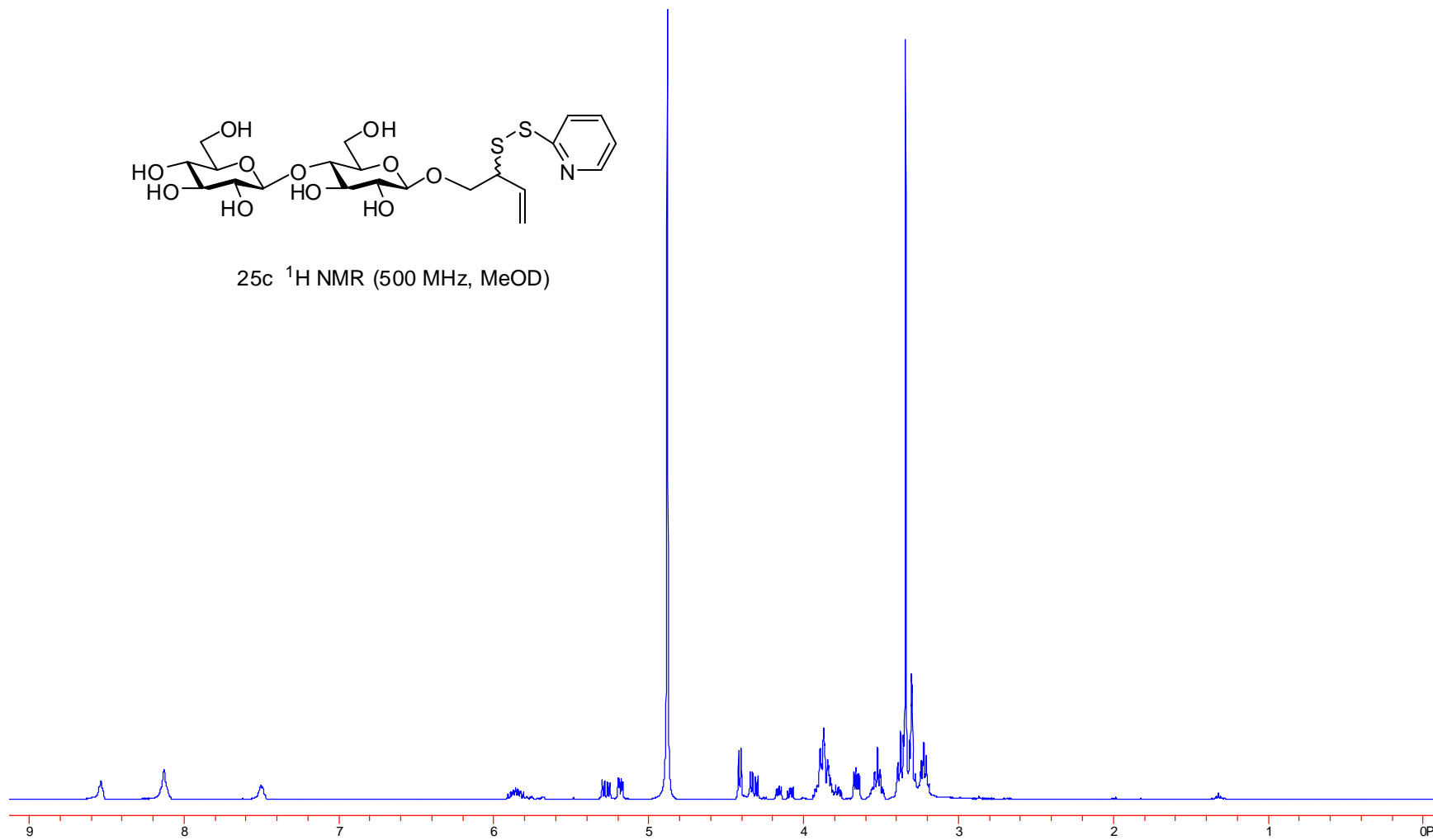


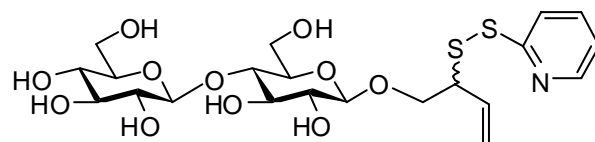
25b ¹³C NMR (125 MHz, MeOD)



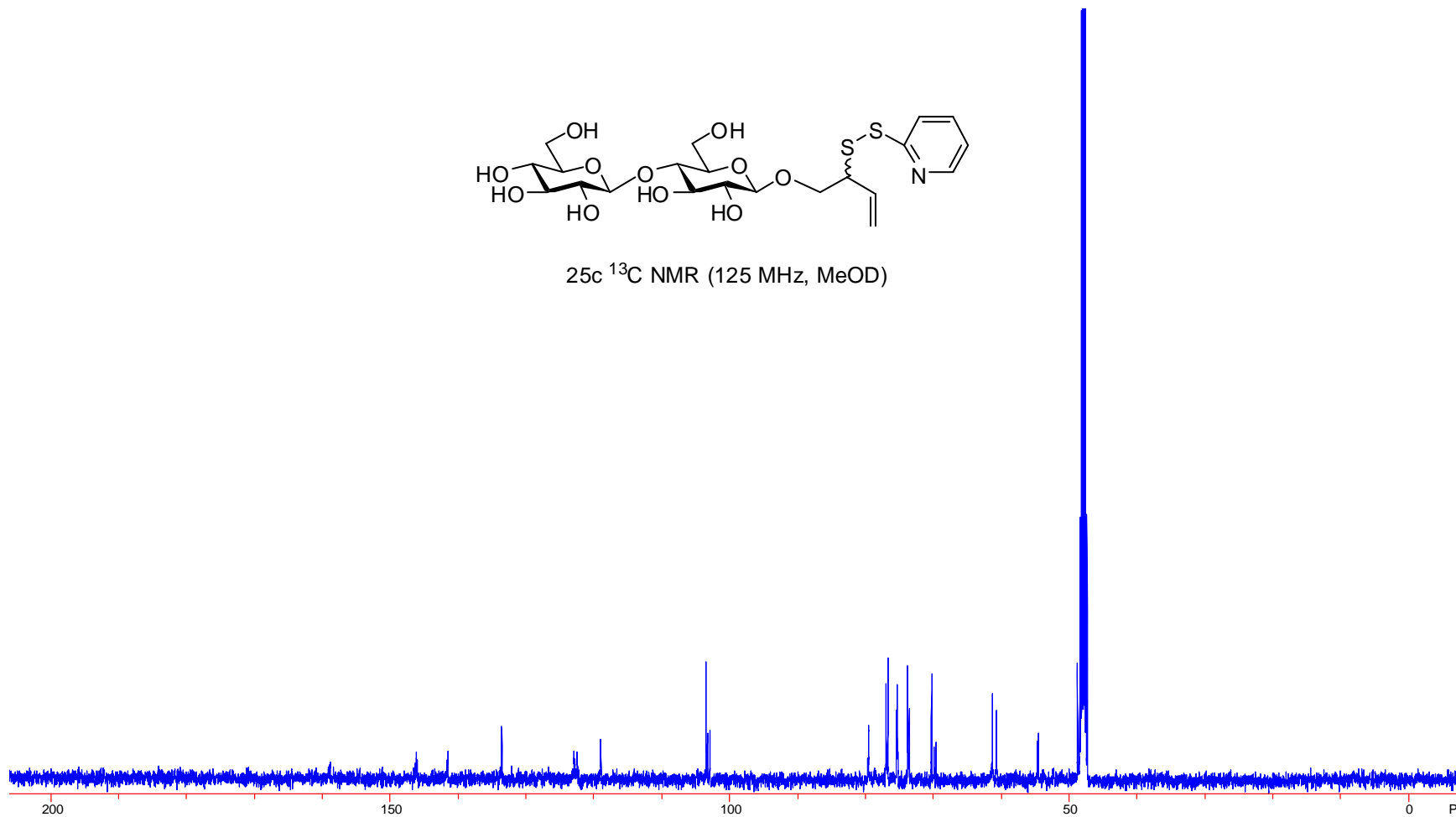


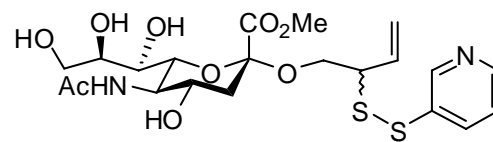
25c ^1H NMR (500 MHz, MeOD)



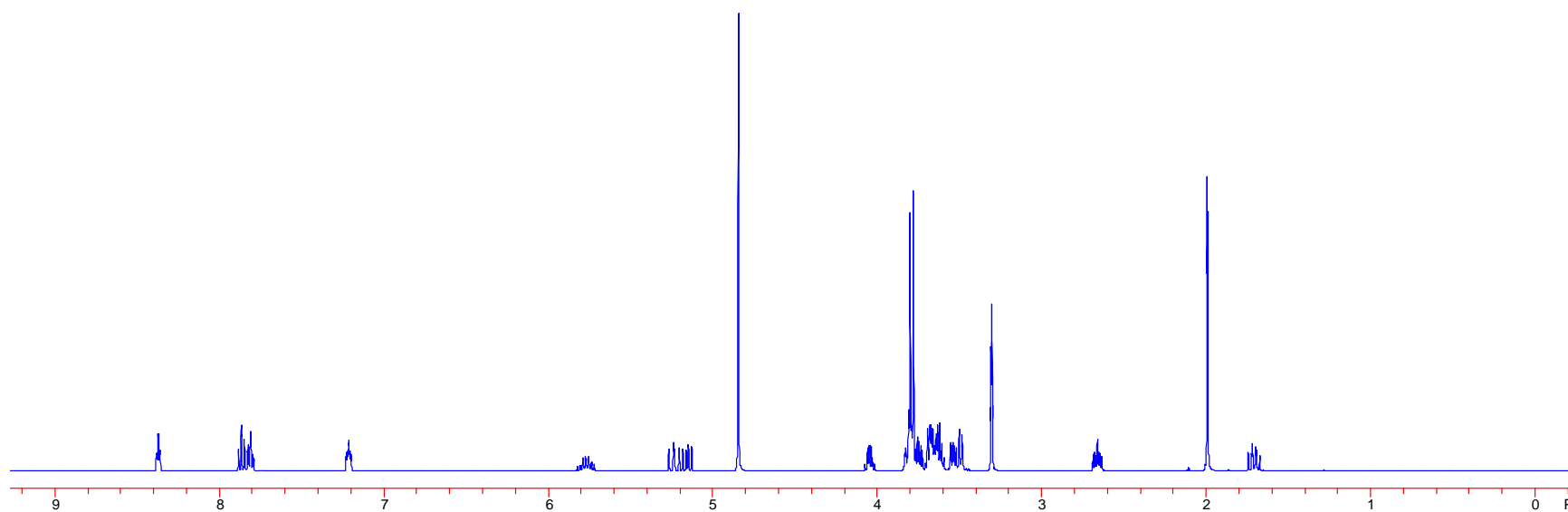


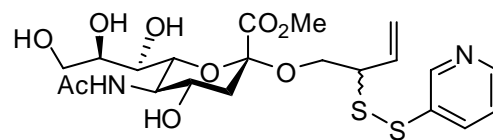
25c ^{13}C NMR (125 MHz, MeOD)



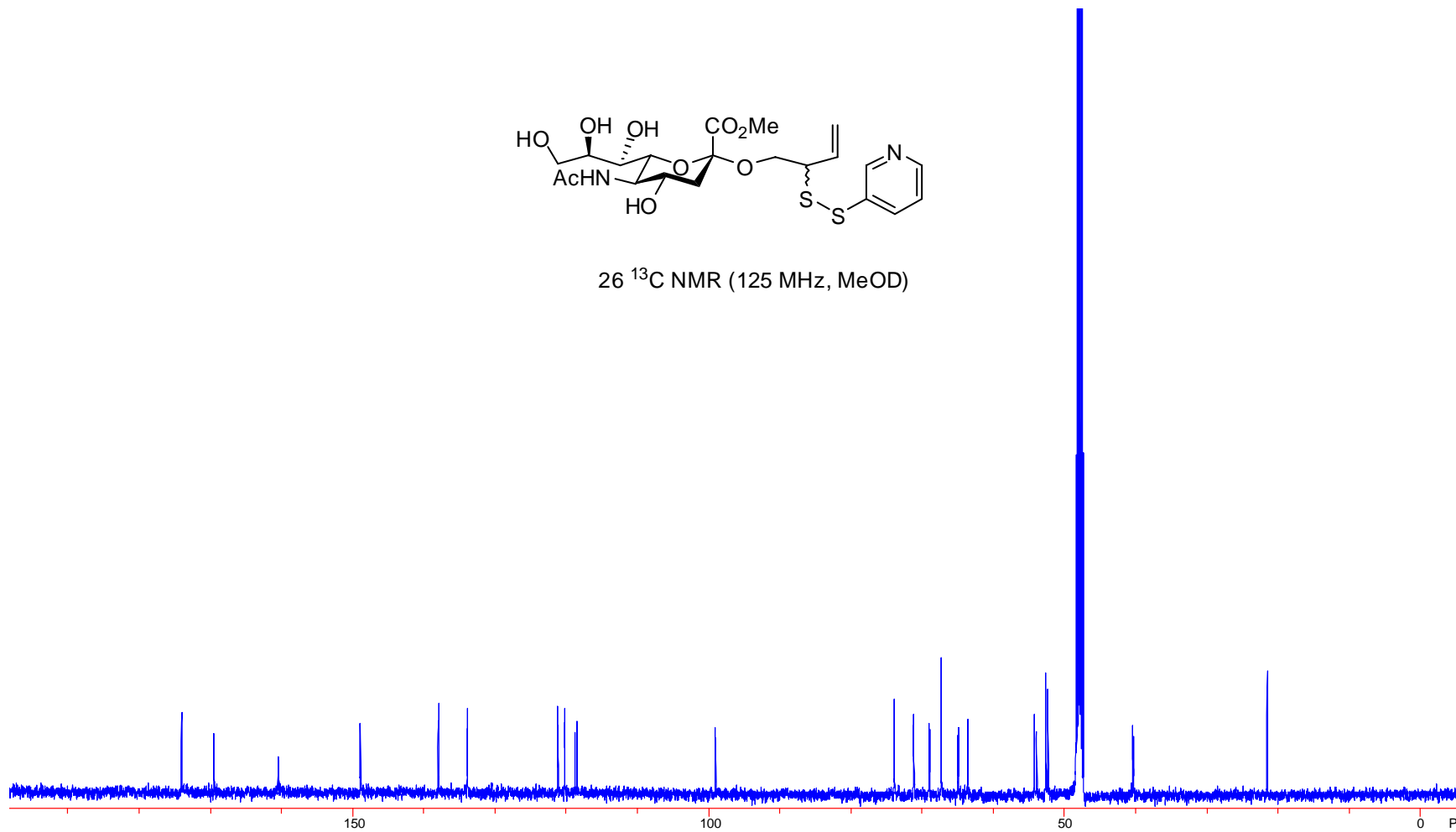


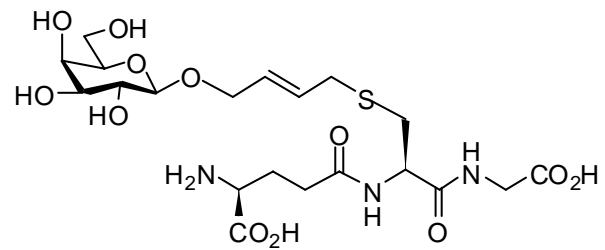
26 ¹H NMR (500 MHz, MeOD)



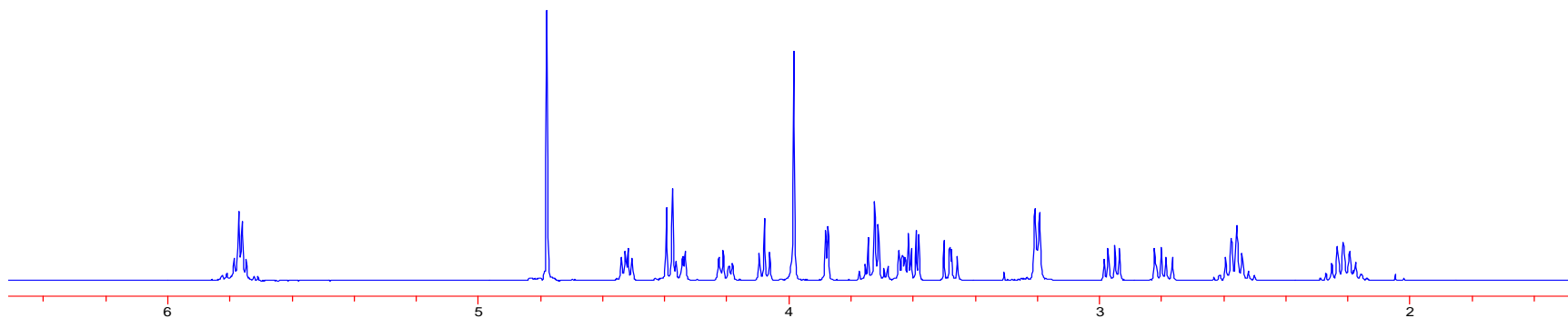


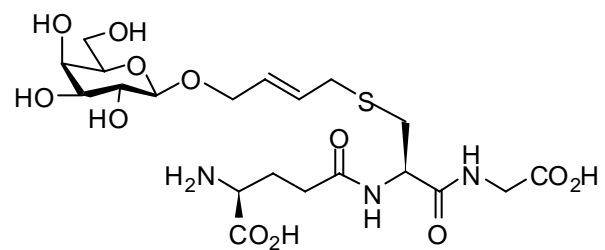
26 ¹³C NMR (125 MHz, MeOD)



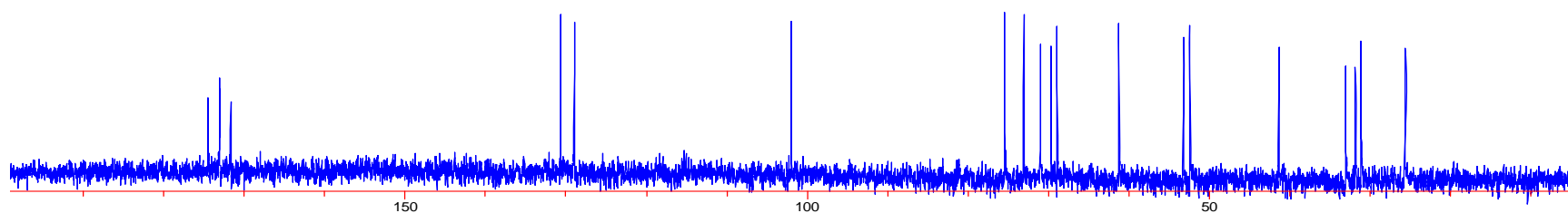


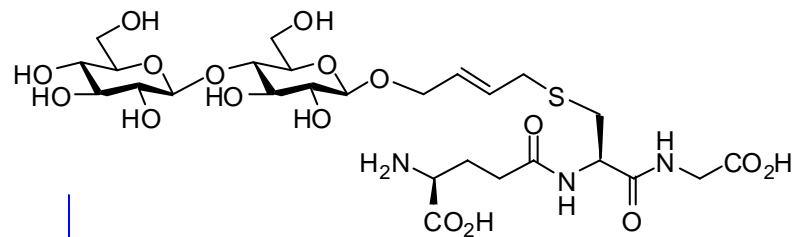
27 ^1H NMR (400 MHz, D_2O)



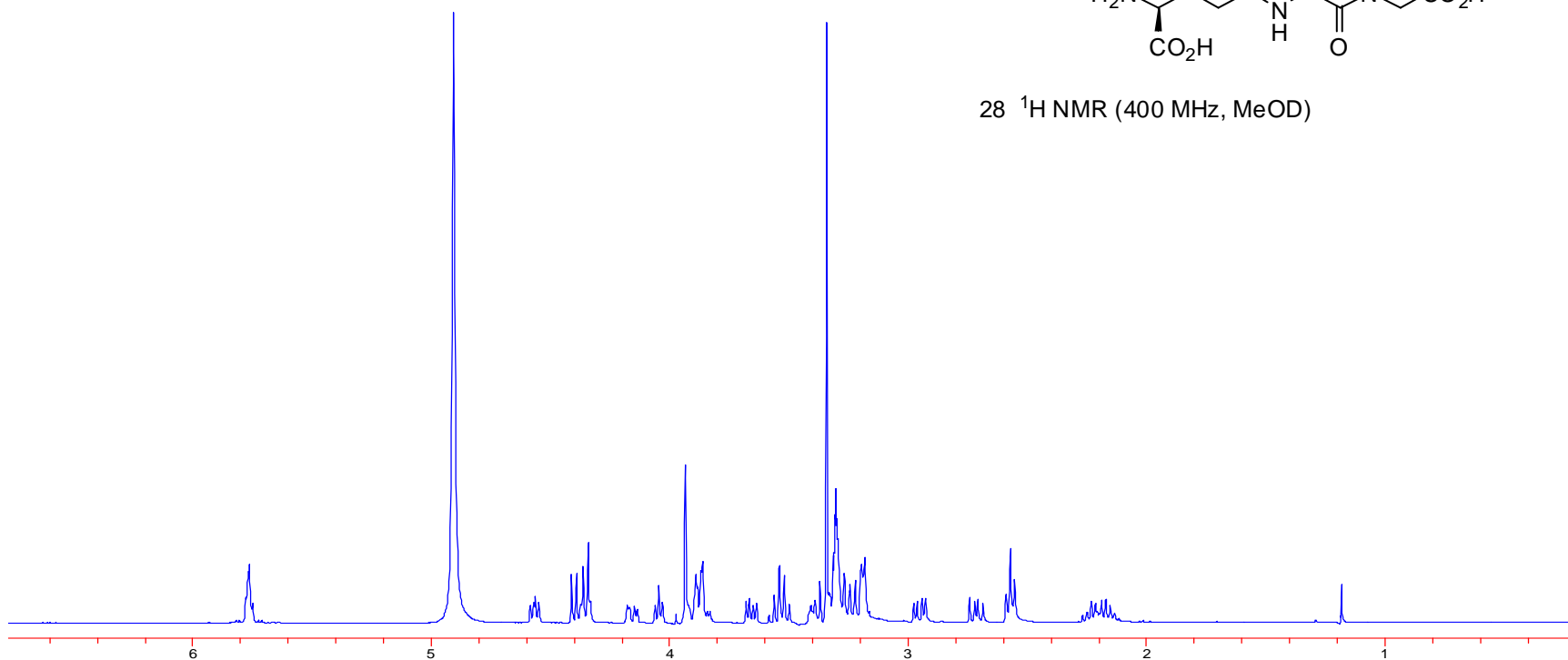


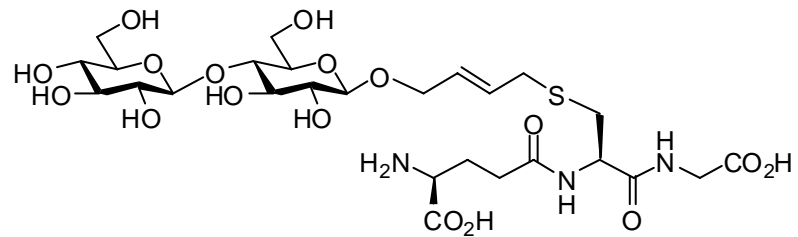
27 ^{13}C NMR (100 MHz, D₂O)



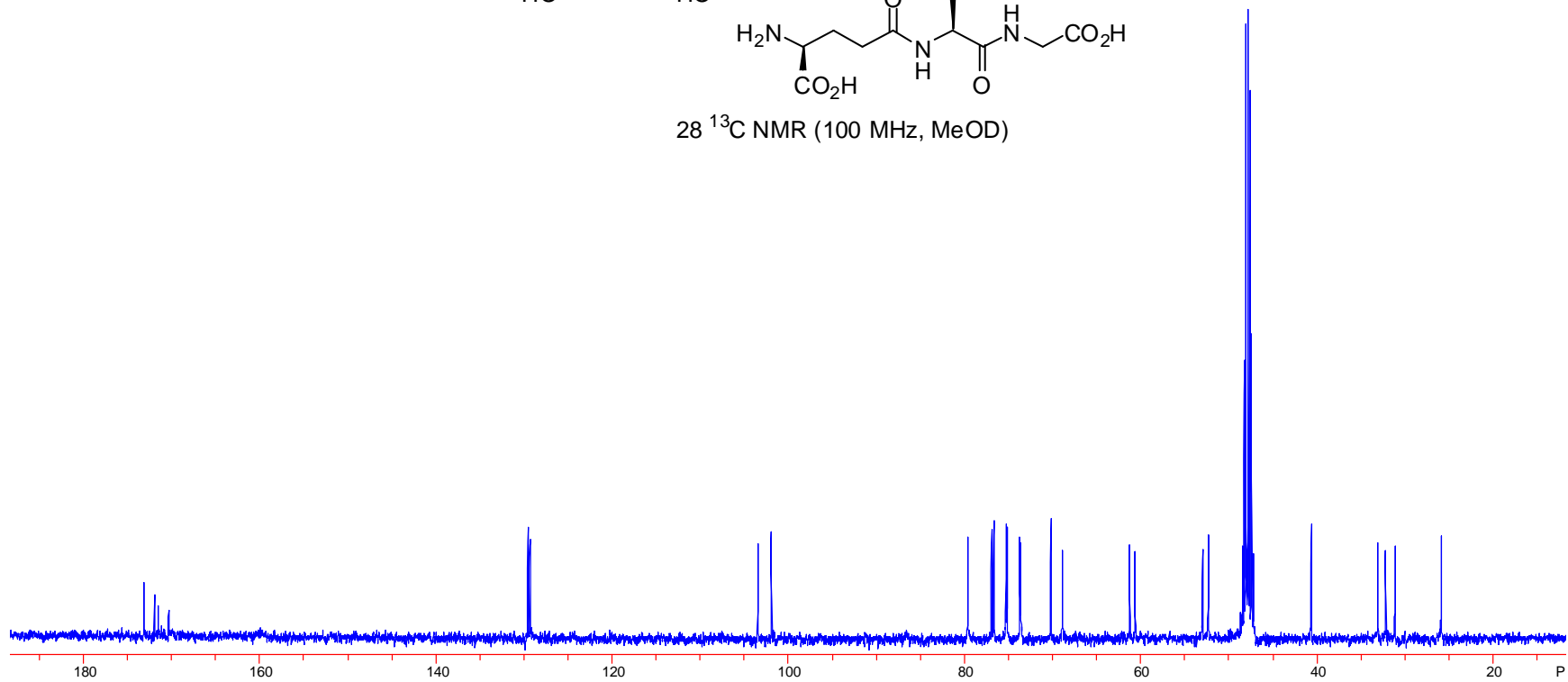


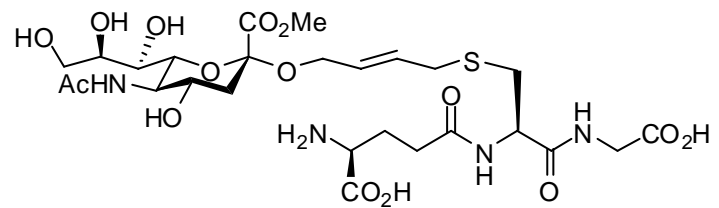
28 ¹H NMR (400 MHz, MeOD)



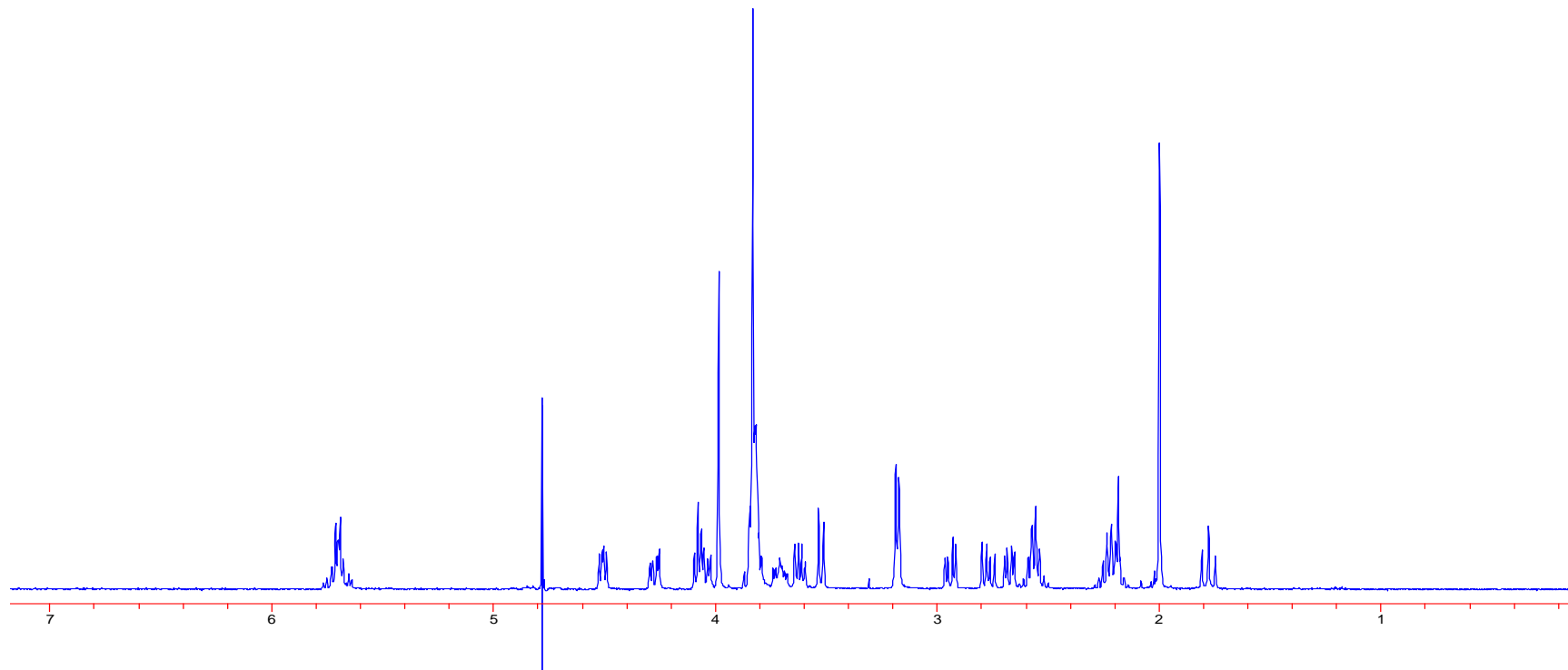


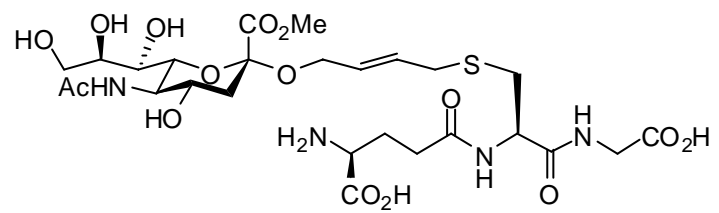
28 ¹³C NMR (100 MHz, MeOD)



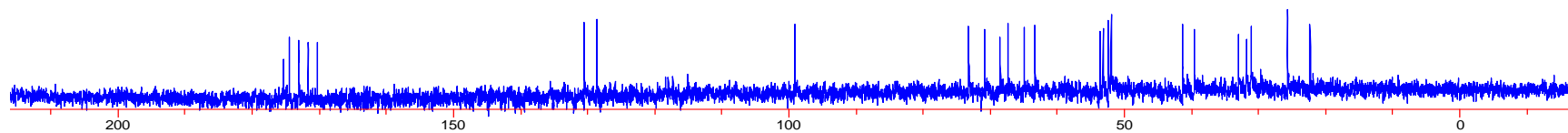


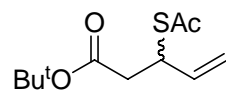
29 ¹H NMR (500 MHz, D₂O)



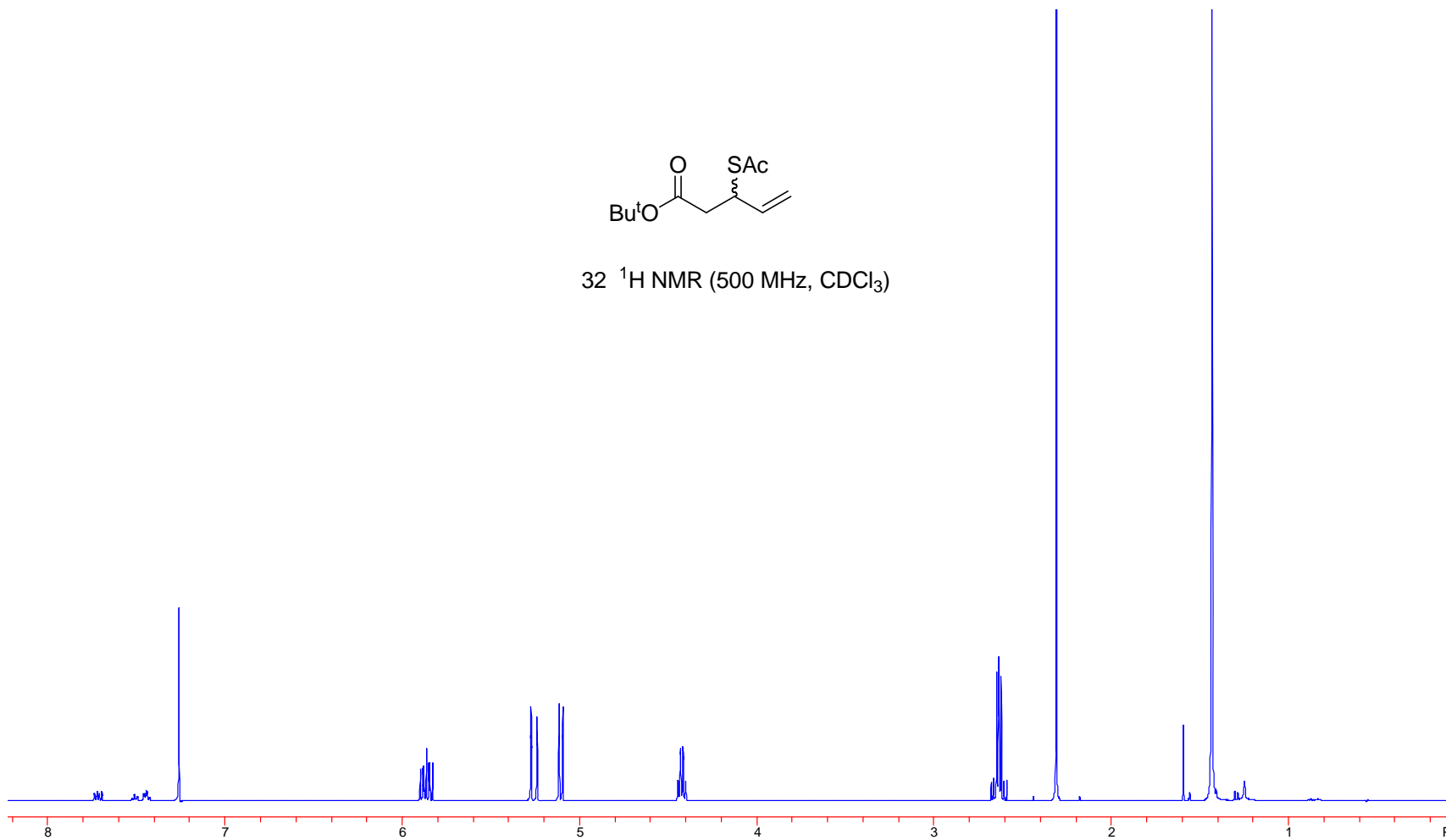


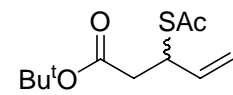
29 ¹³C NMR (125 MHz, D₂O)



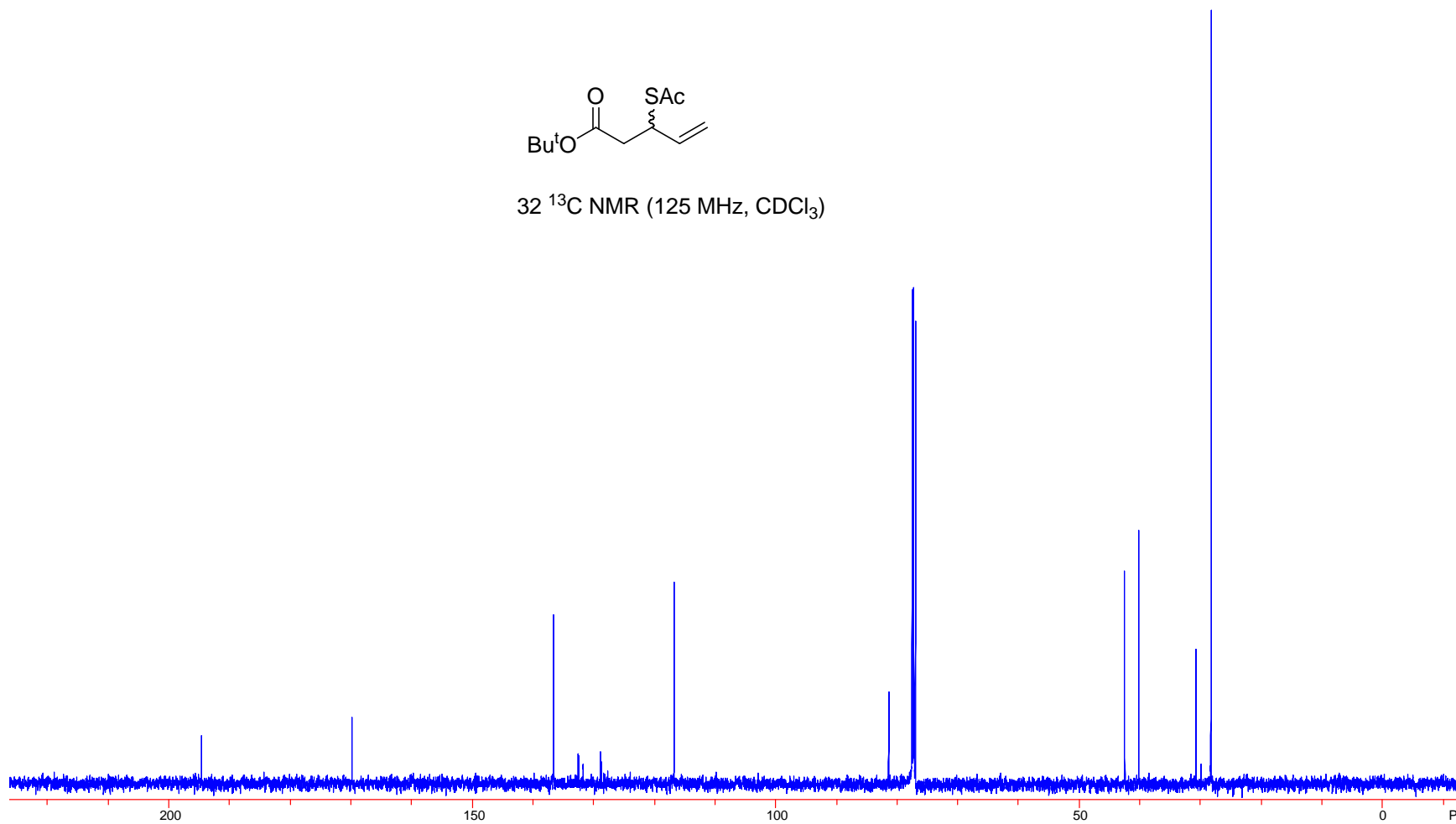


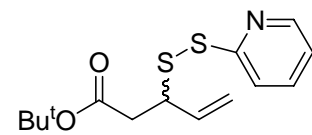
32 ¹H NMR (500 MHz, CDCl₃)



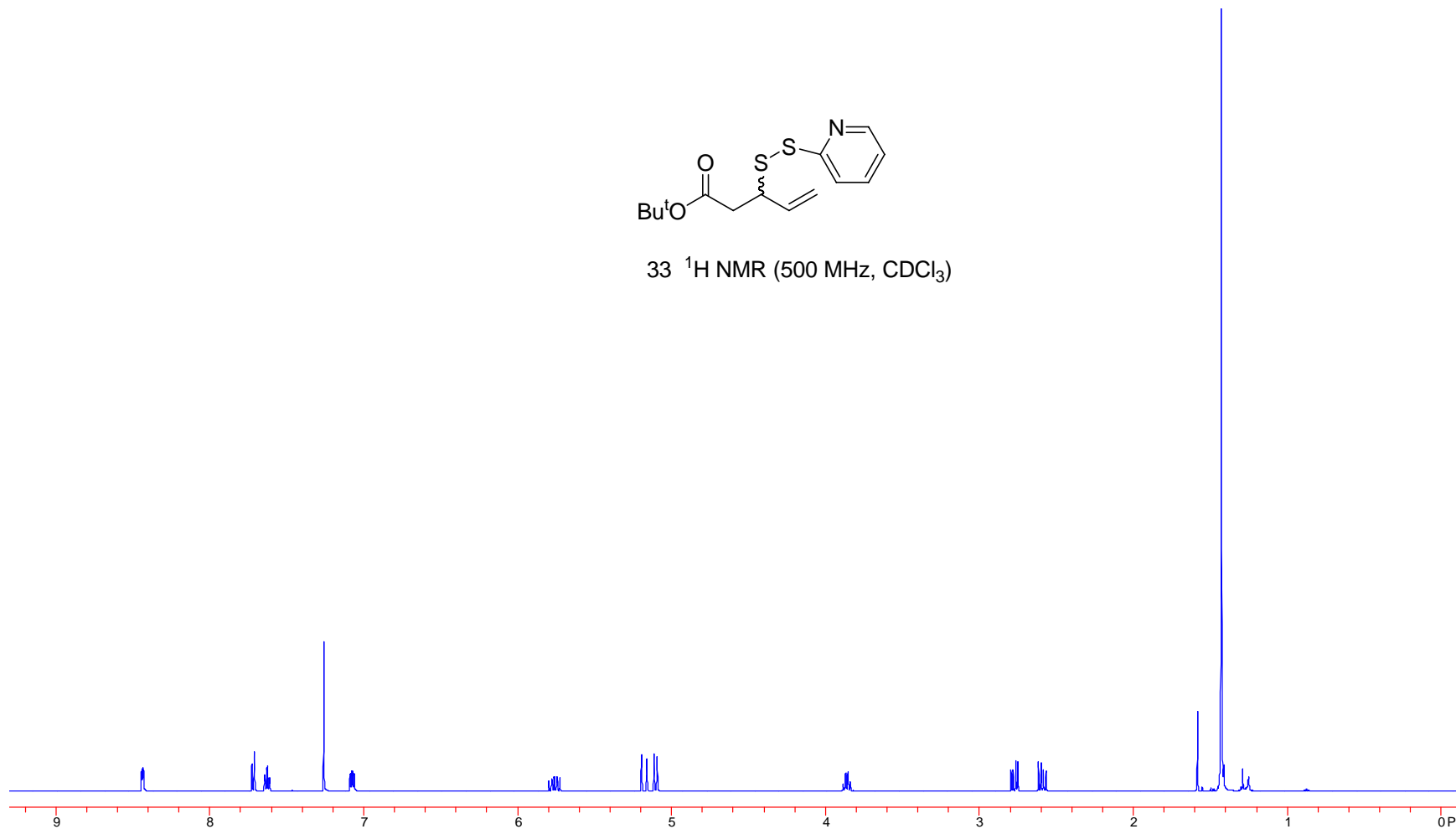


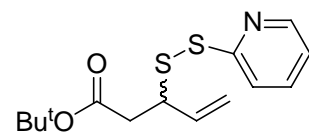
32 ^{13}C NMR (125 MHz, CDCl_3)



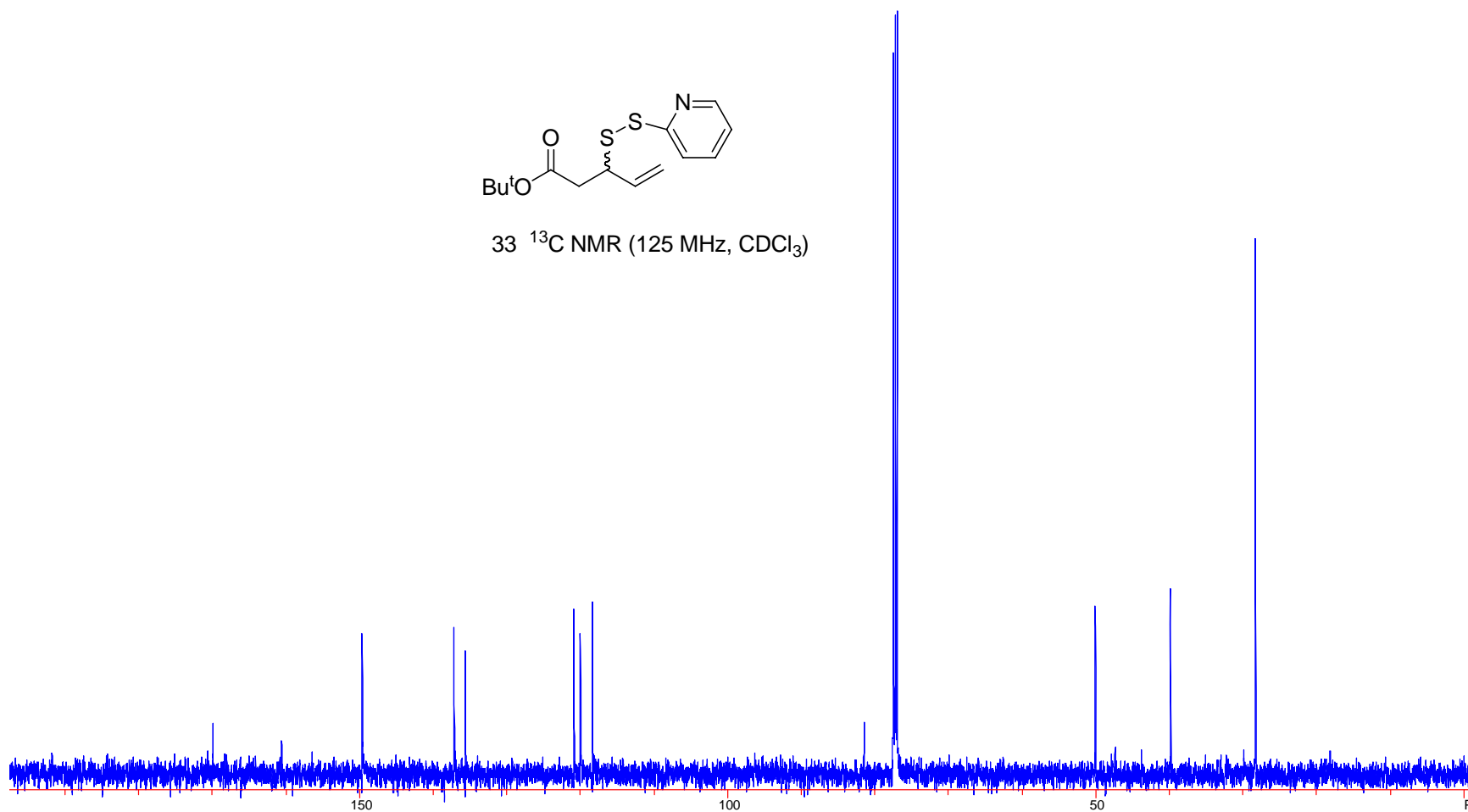


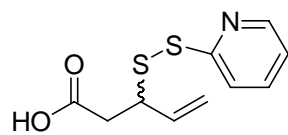
33 ^1H NMR (500 MHz, CDCl_3)



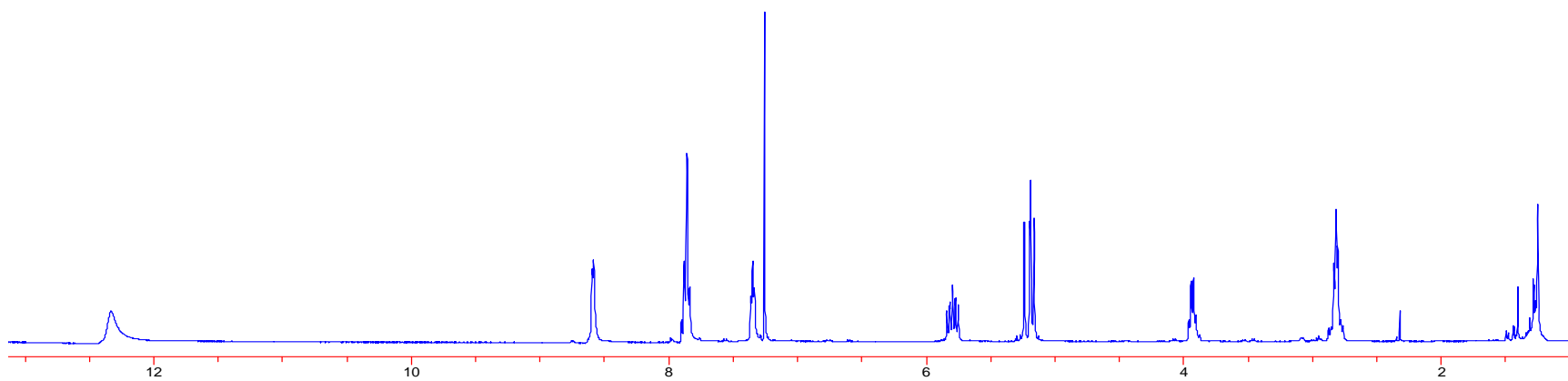


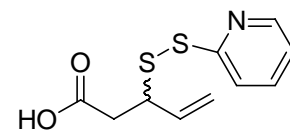
33 ^{13}C NMR (125 MHz, CDCl_3)



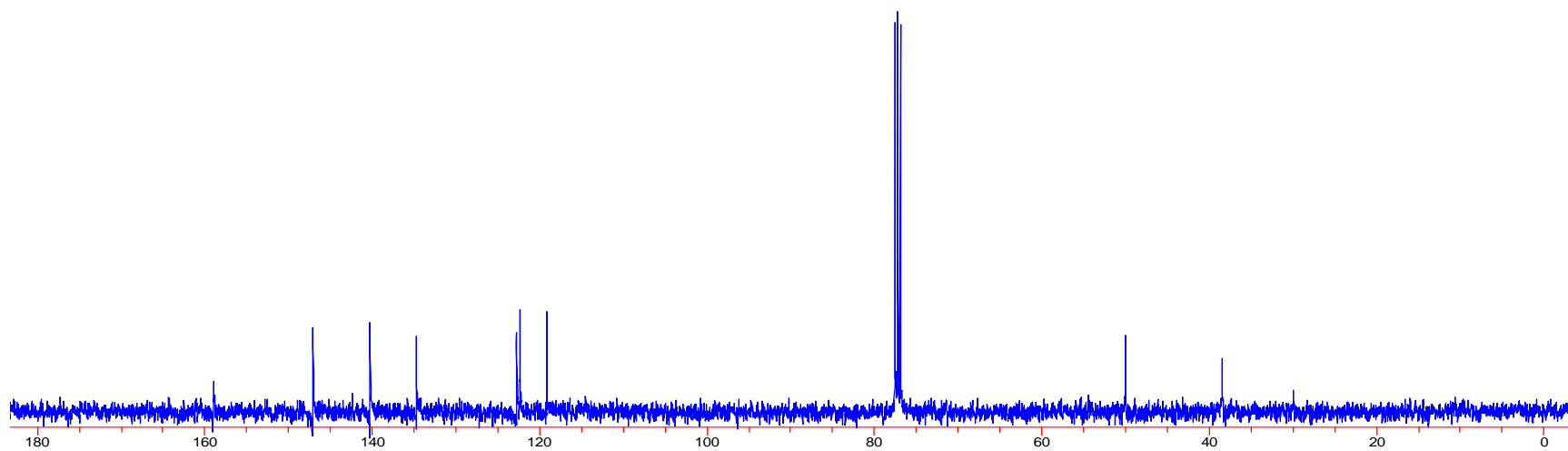


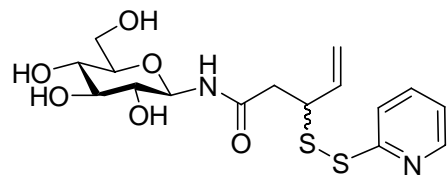
34 ^1H NMR (400 MHz, CDCl_3)



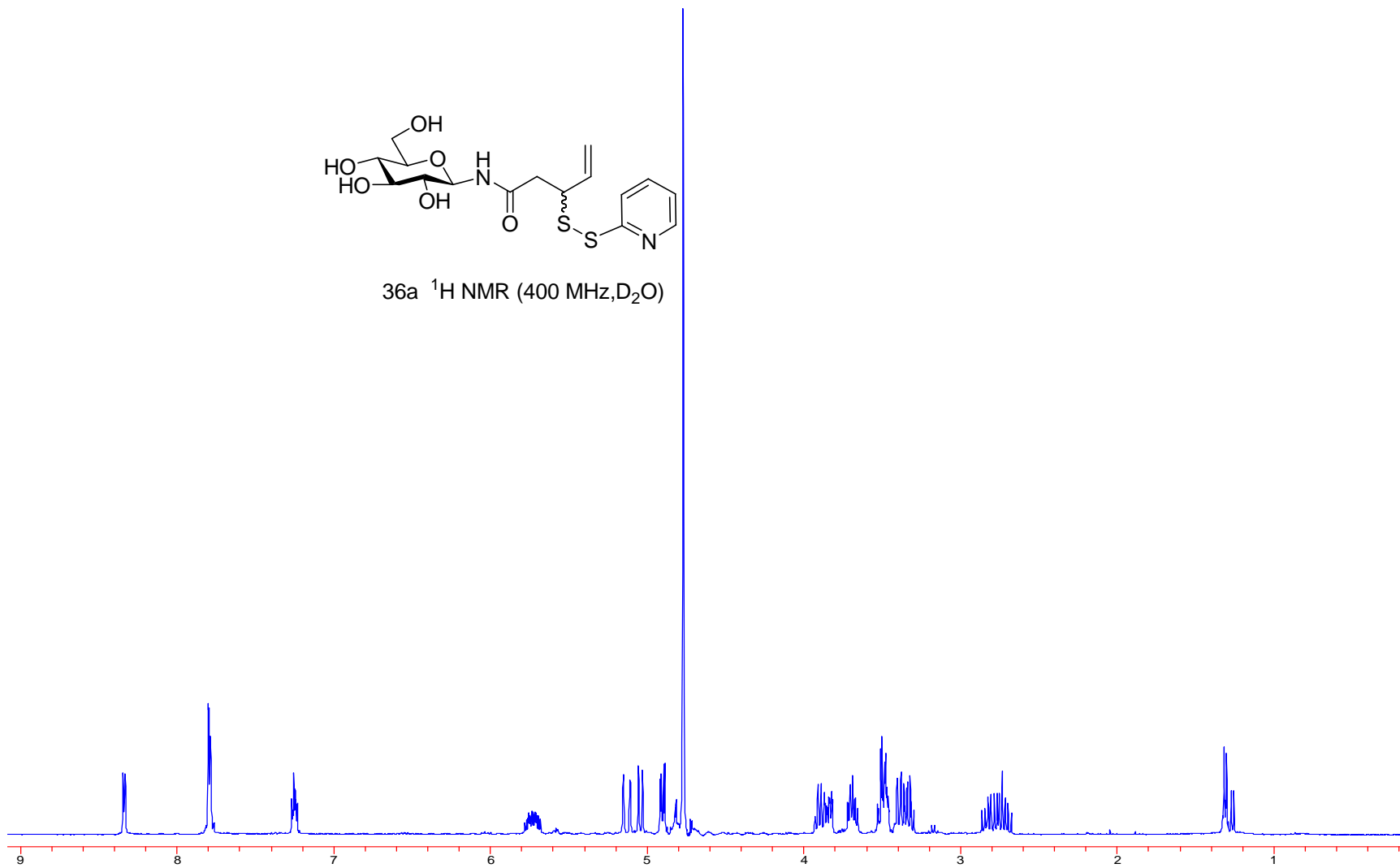


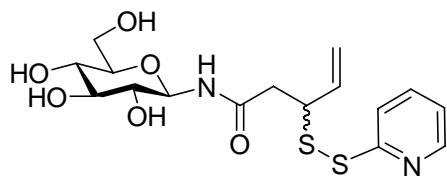
34 ^{13}C NMR (100 MHz, CDCl_3)



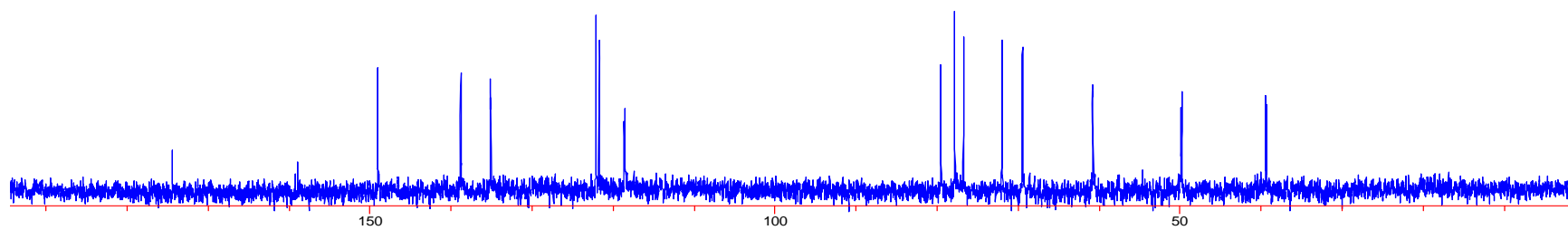


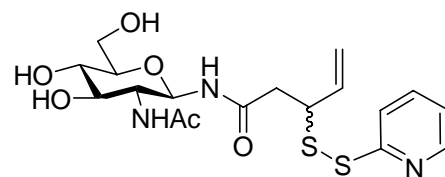
36a ^1H NMR (400 MHz, D_2O)



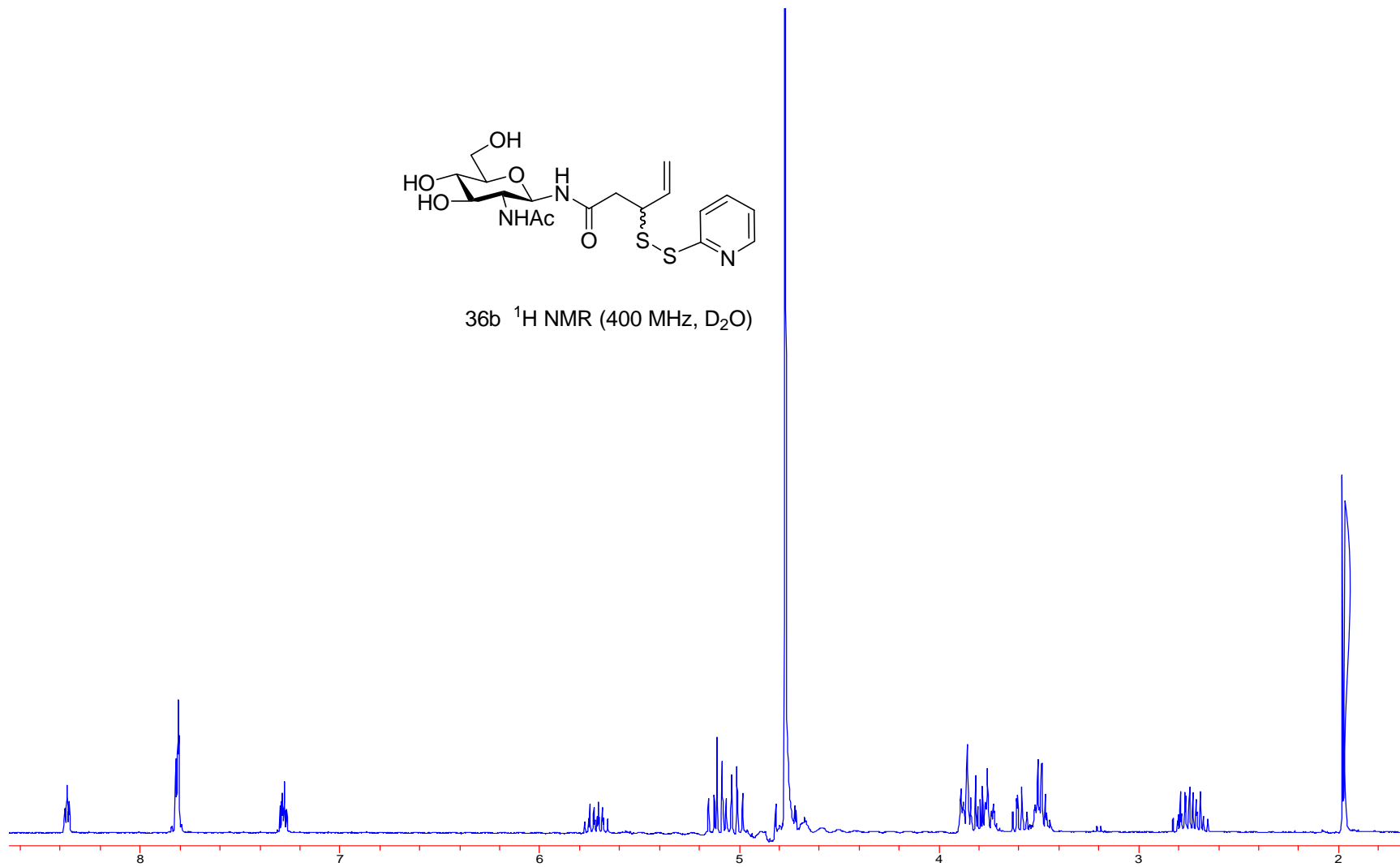


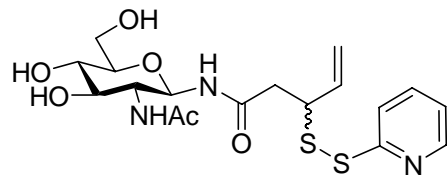
36a ^{13}C NMR (100 MHz, D_2O)



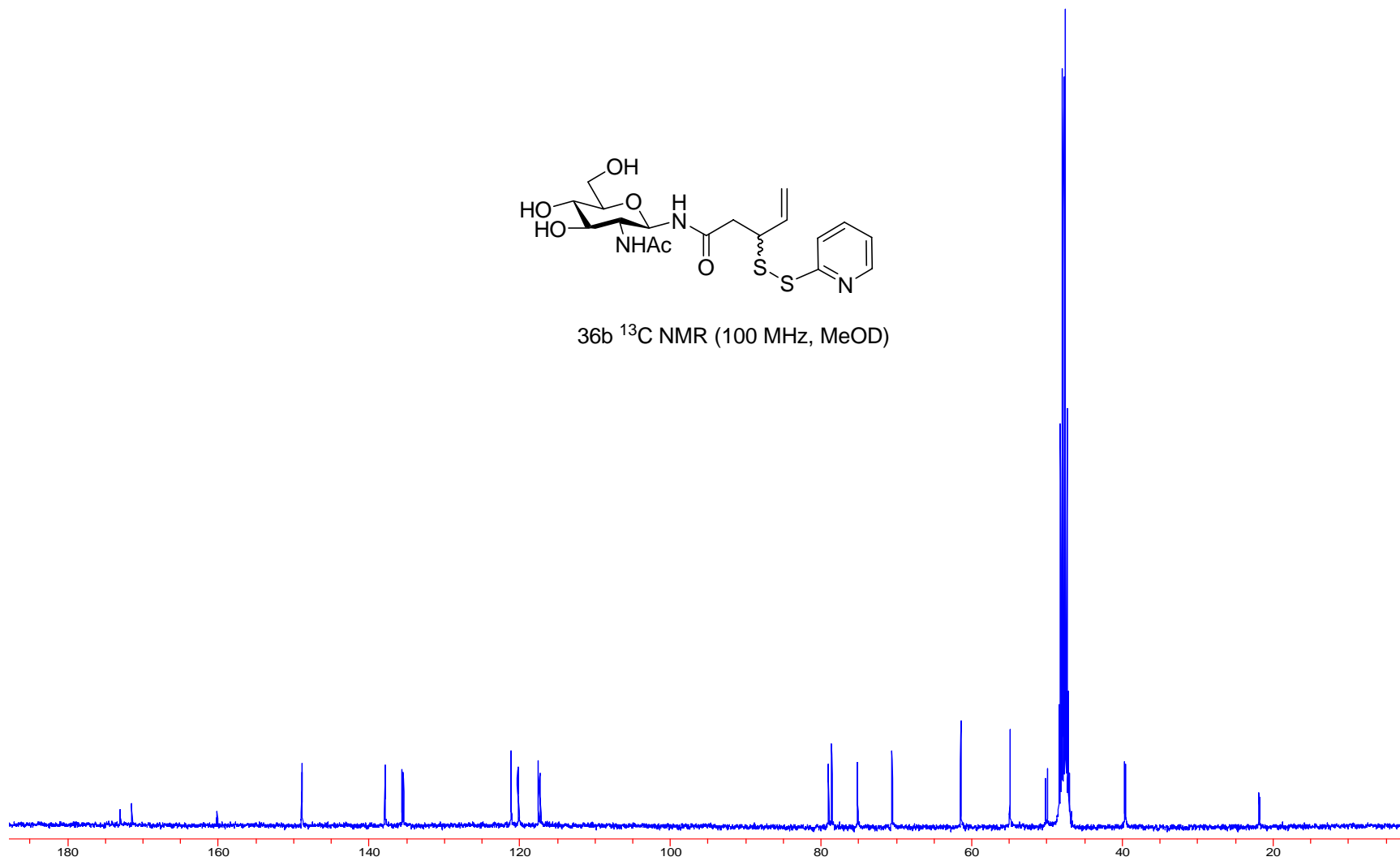


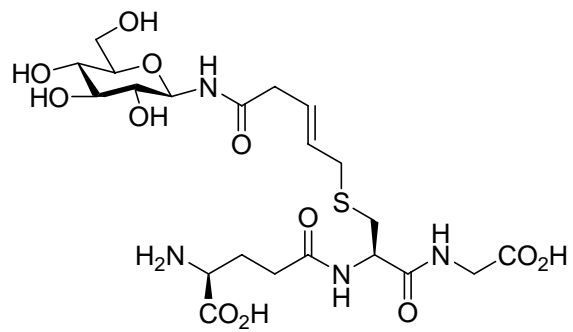
36b ¹H NMR (400 MHz, D₂O)



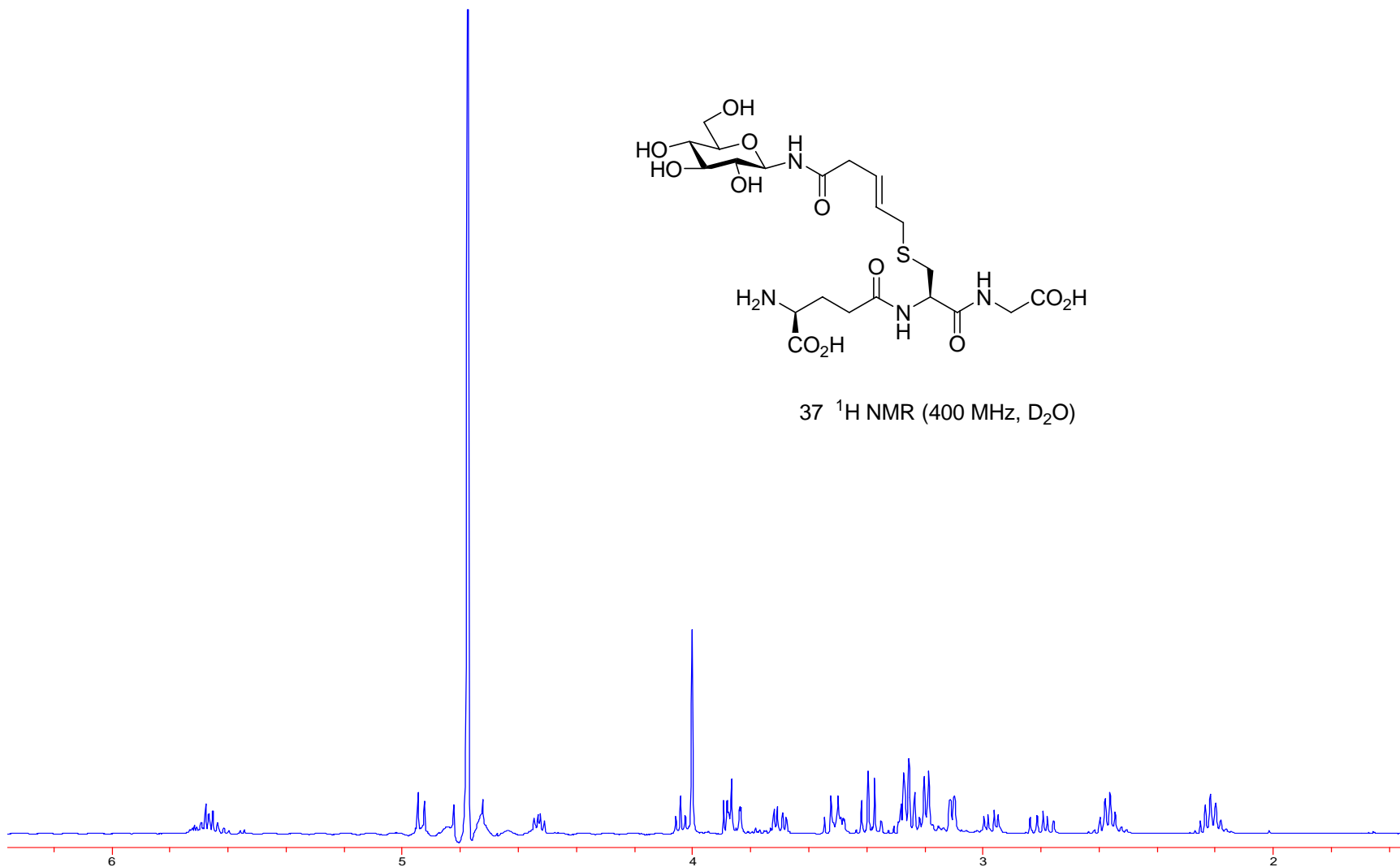


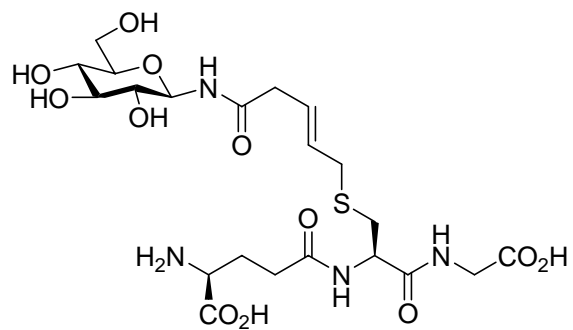
36b ^{13}C NMR (100 MHz, MeOD)



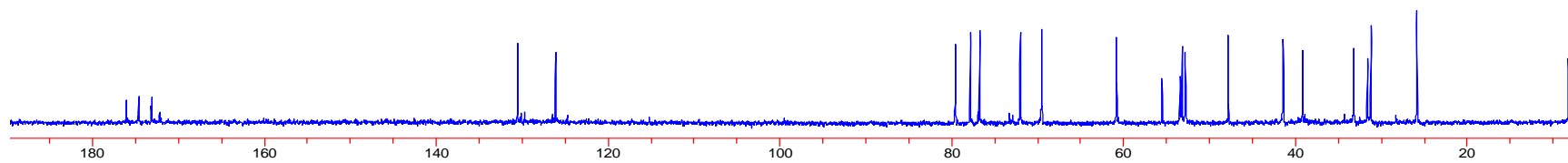


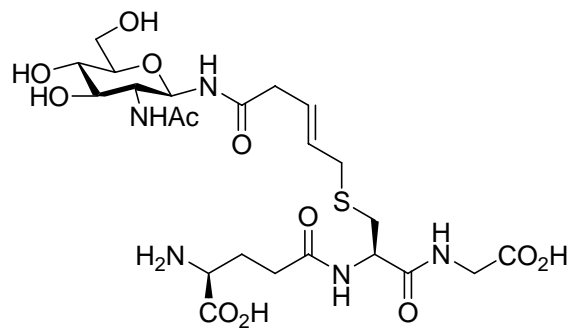
37 ^1H NMR (400 MHz, D_2O)





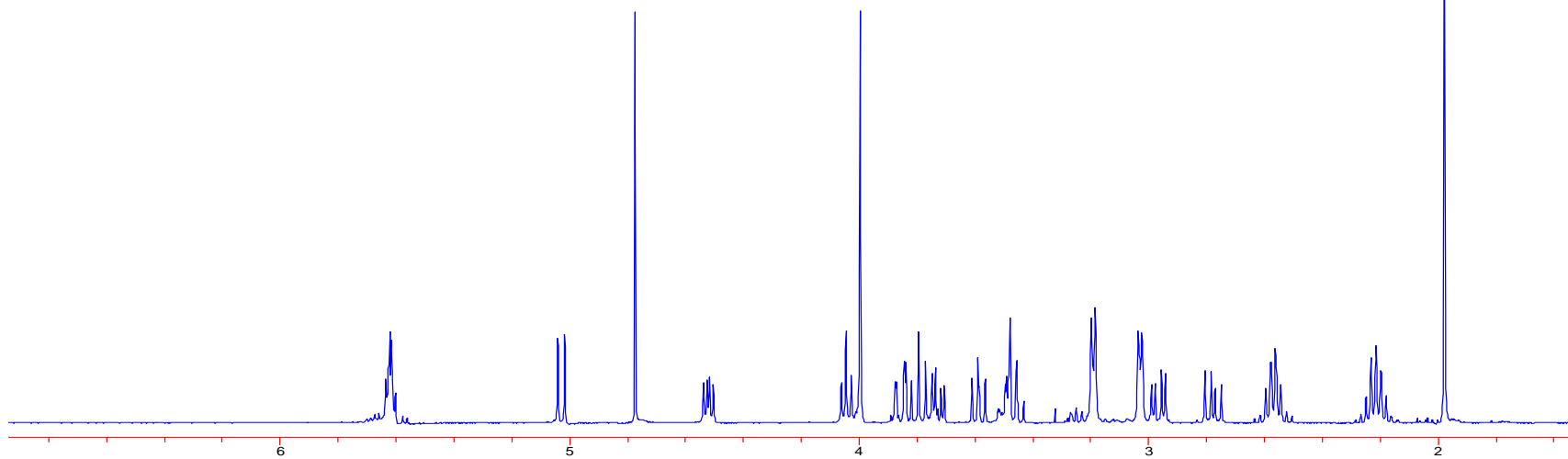
37 ^{13}C NMR (100 MHz, D_2O)

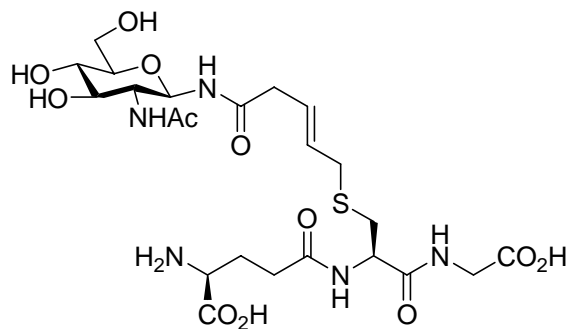




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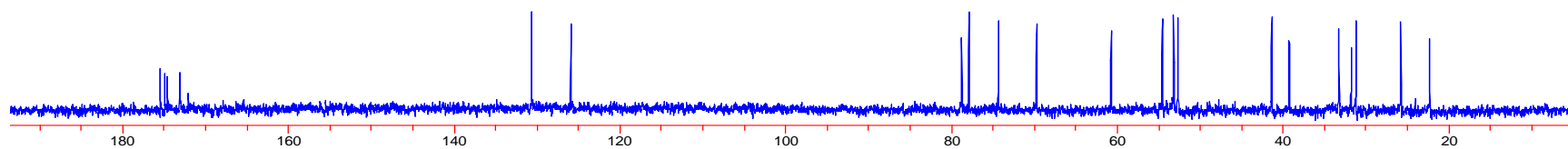
38 ¹H NMR (400 MHz, D₂O)

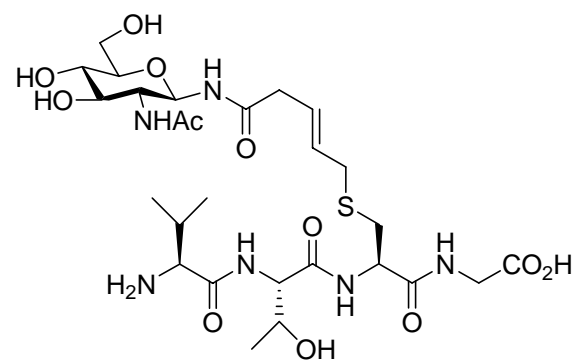




38

38 ^{13}C NMR (100 MHz, D_2O)





40 ^1H NMR (400 MHz, D_2O)

