

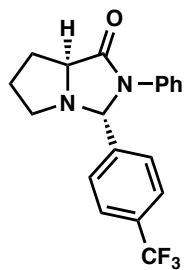
Supporting Information

An Analysis of the Complementary Stereoselective Alkylations of Imidazolidinone Derivatives Towards α -Quaternary Proline-Based Amino Amides

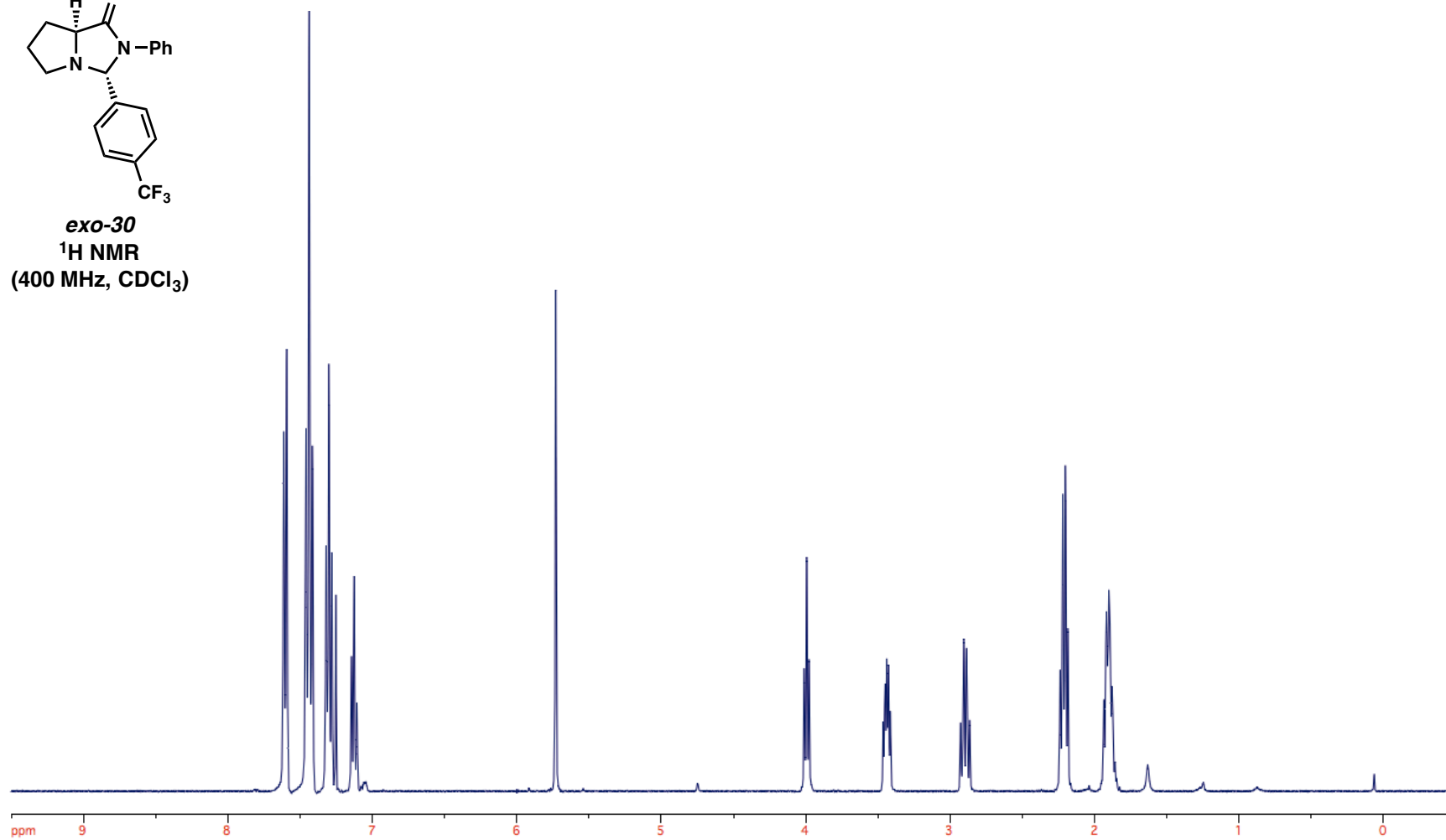
Brian J. Knight, Erin E. Stache, and Eric M. Ferreira*

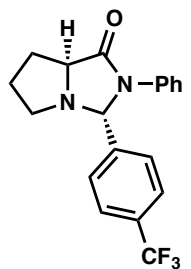
Department of Chemistry, University of Georgia, Athens, GA 30602, United States

emferr@uga.edu

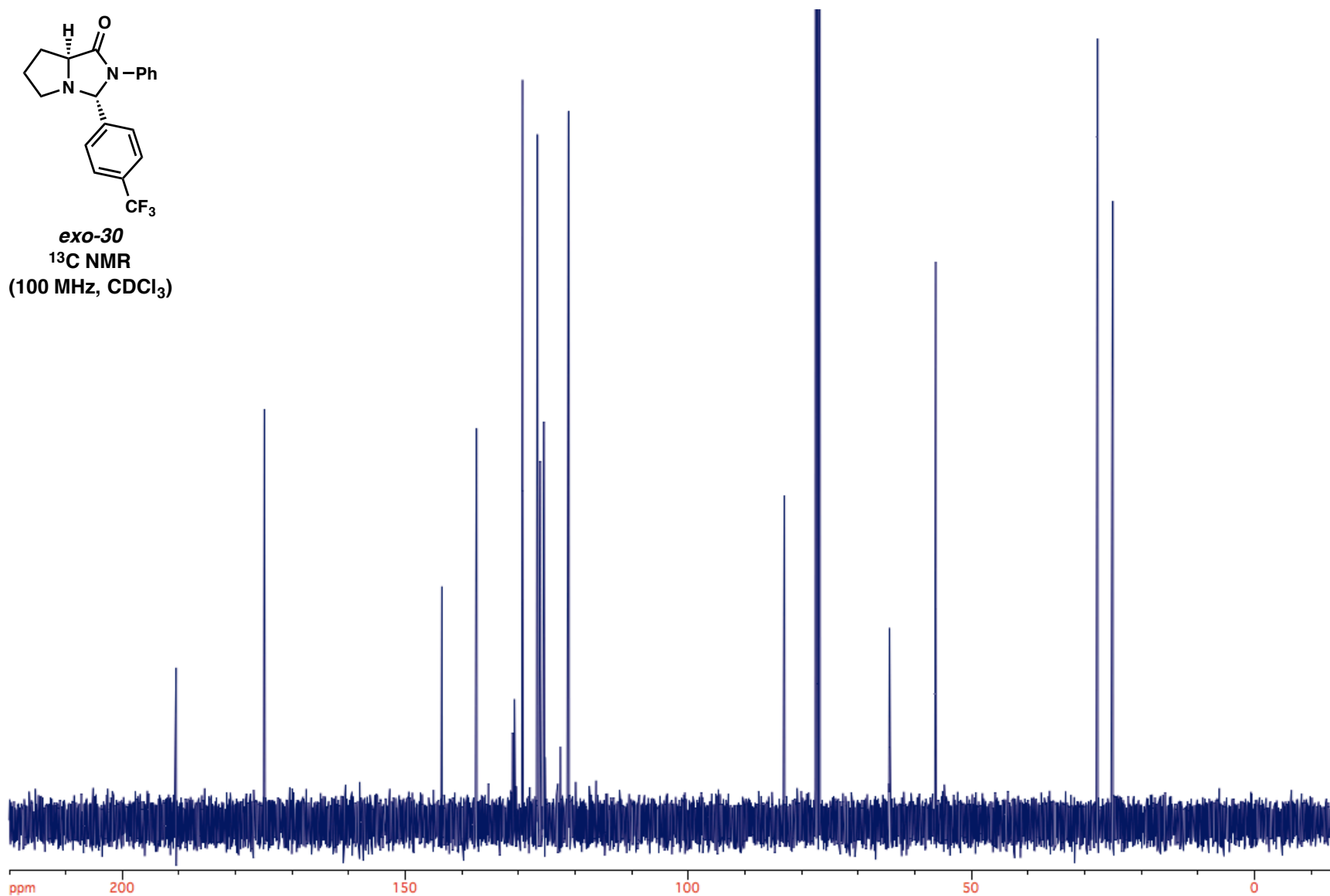


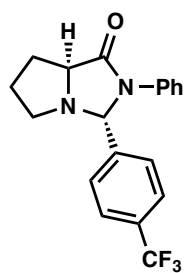
exo-30
¹H NMR
(400 MHz, CDCl₃)



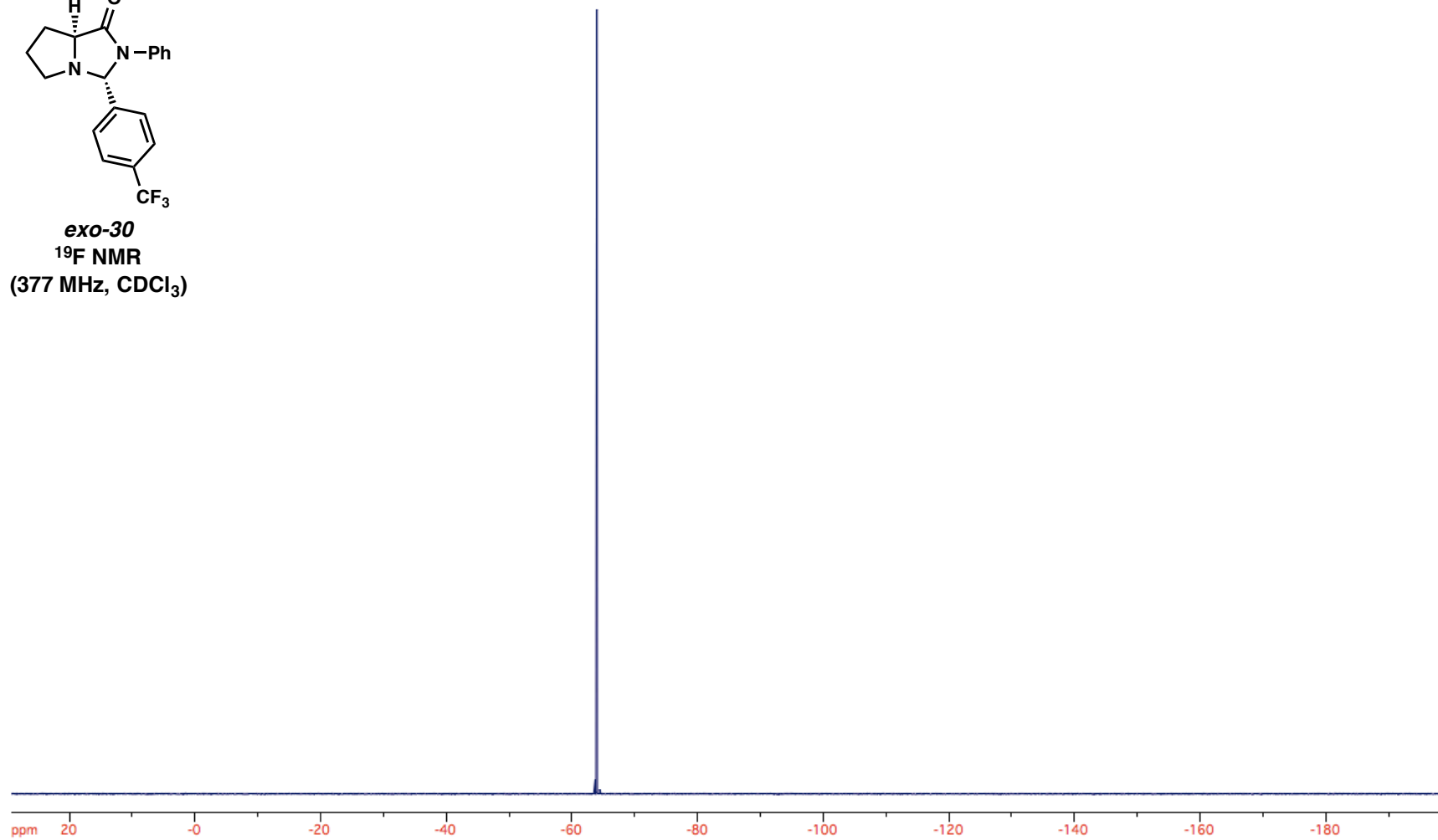


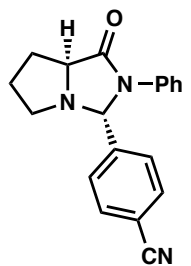
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¹³C NMR
(100 MHz, CDCl₃)



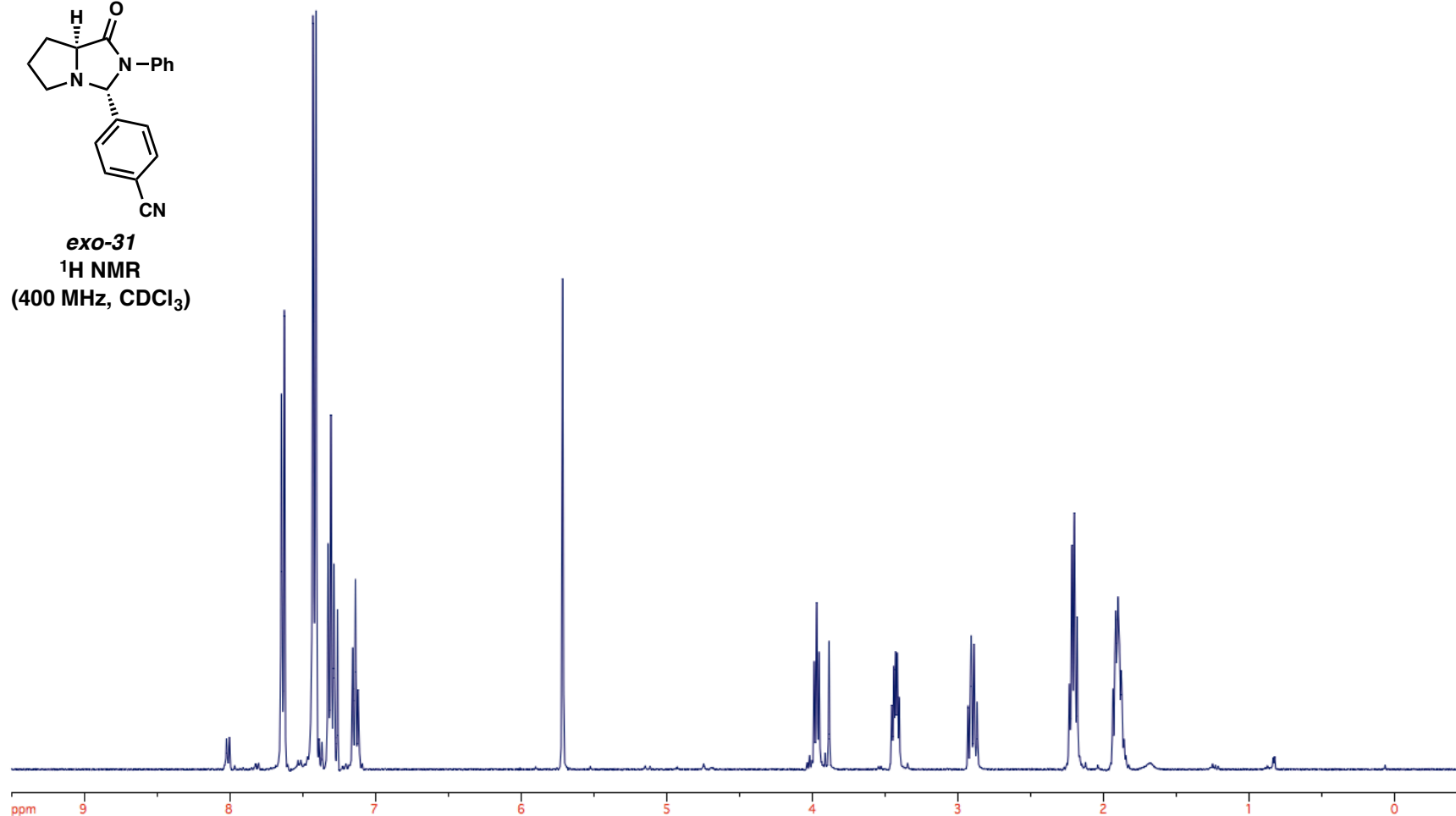


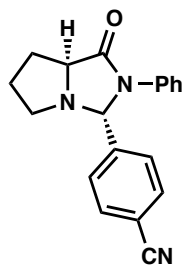
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(377 MHz, CDCl₃)



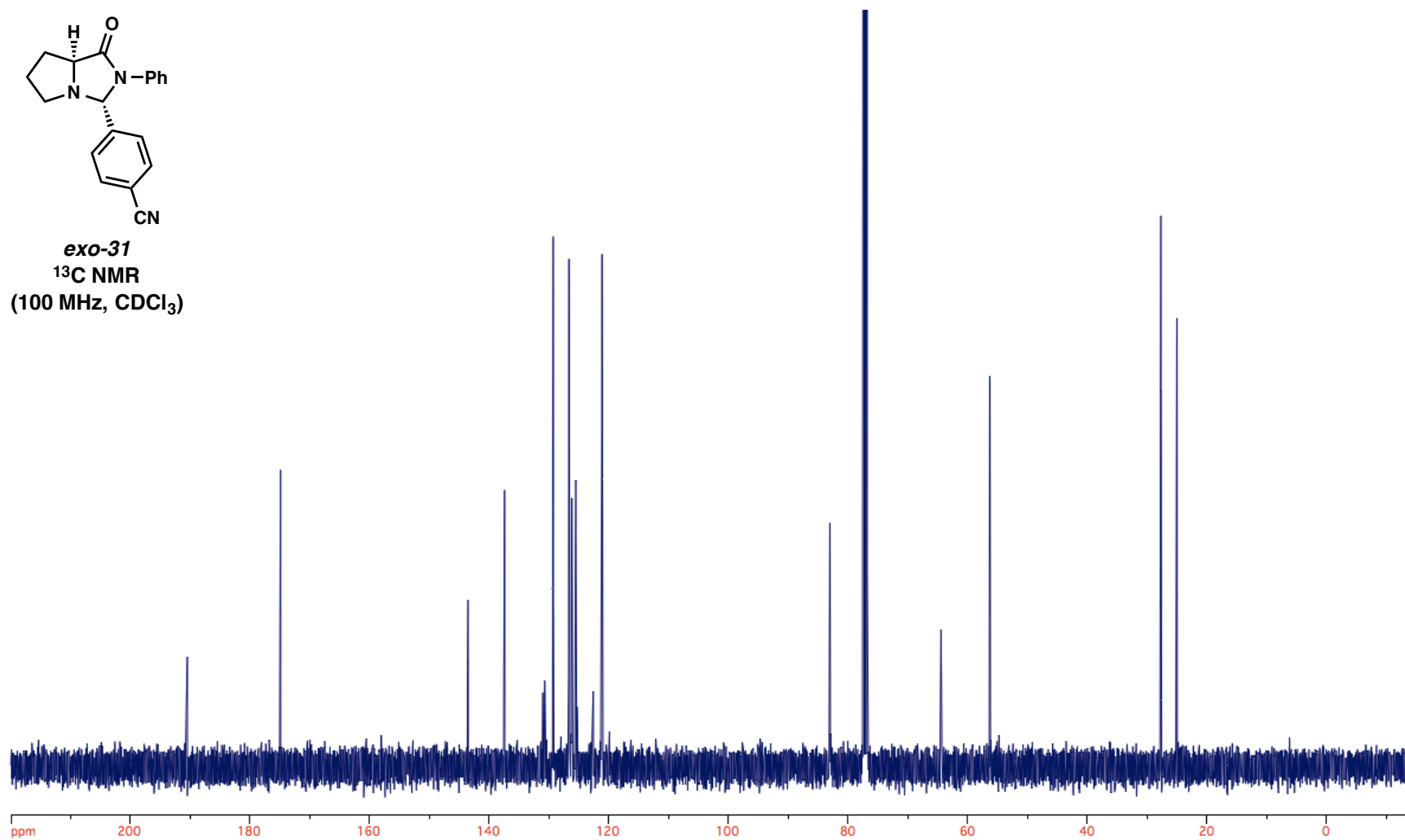


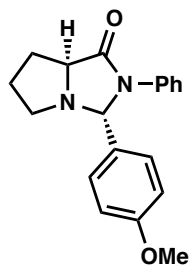
exo-31
¹H NMR
(400 MHz, CDCl₃)



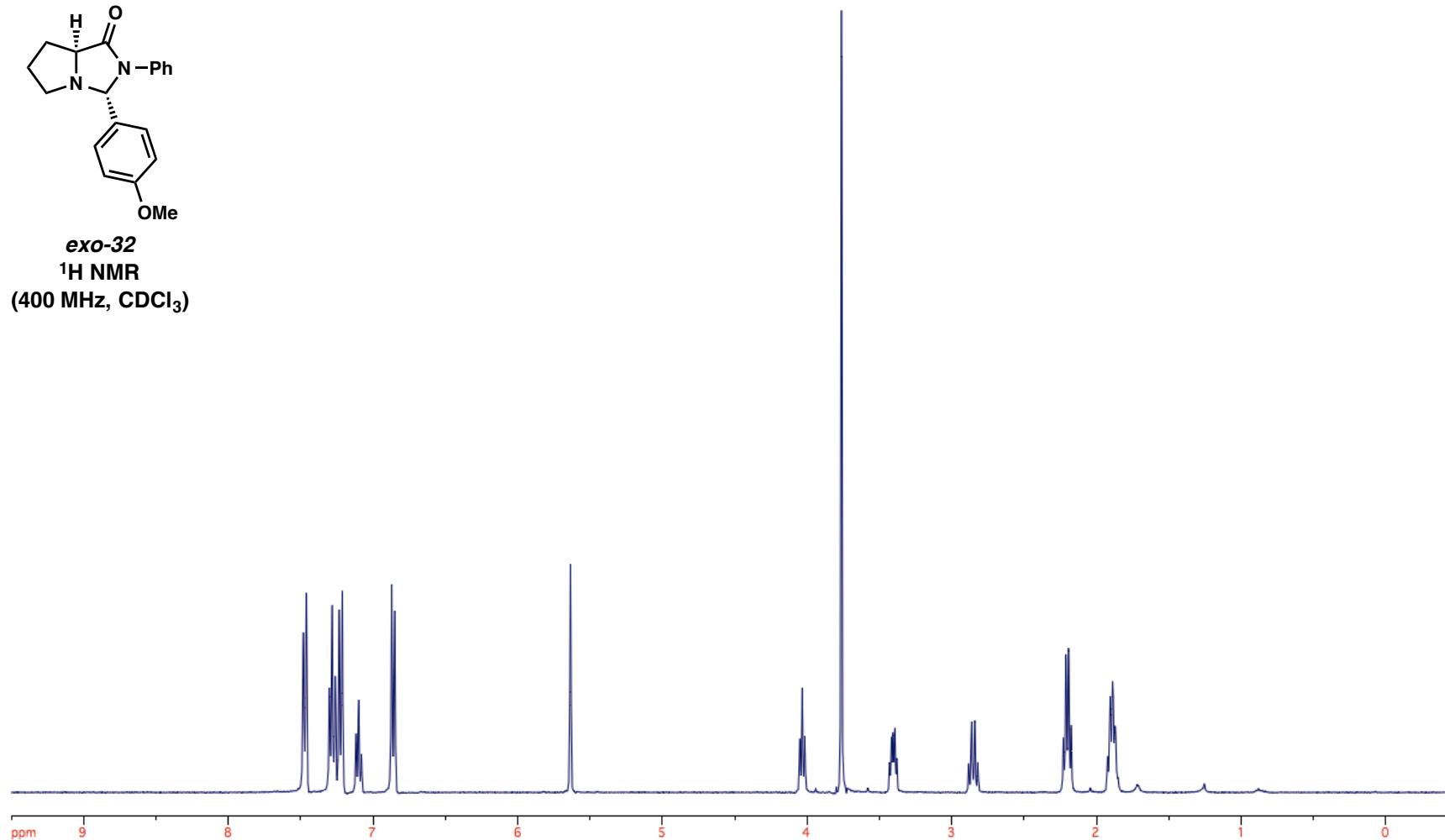


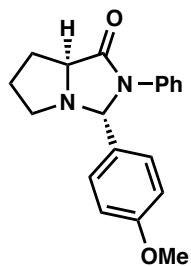
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(100 MHz, CDCl₃)



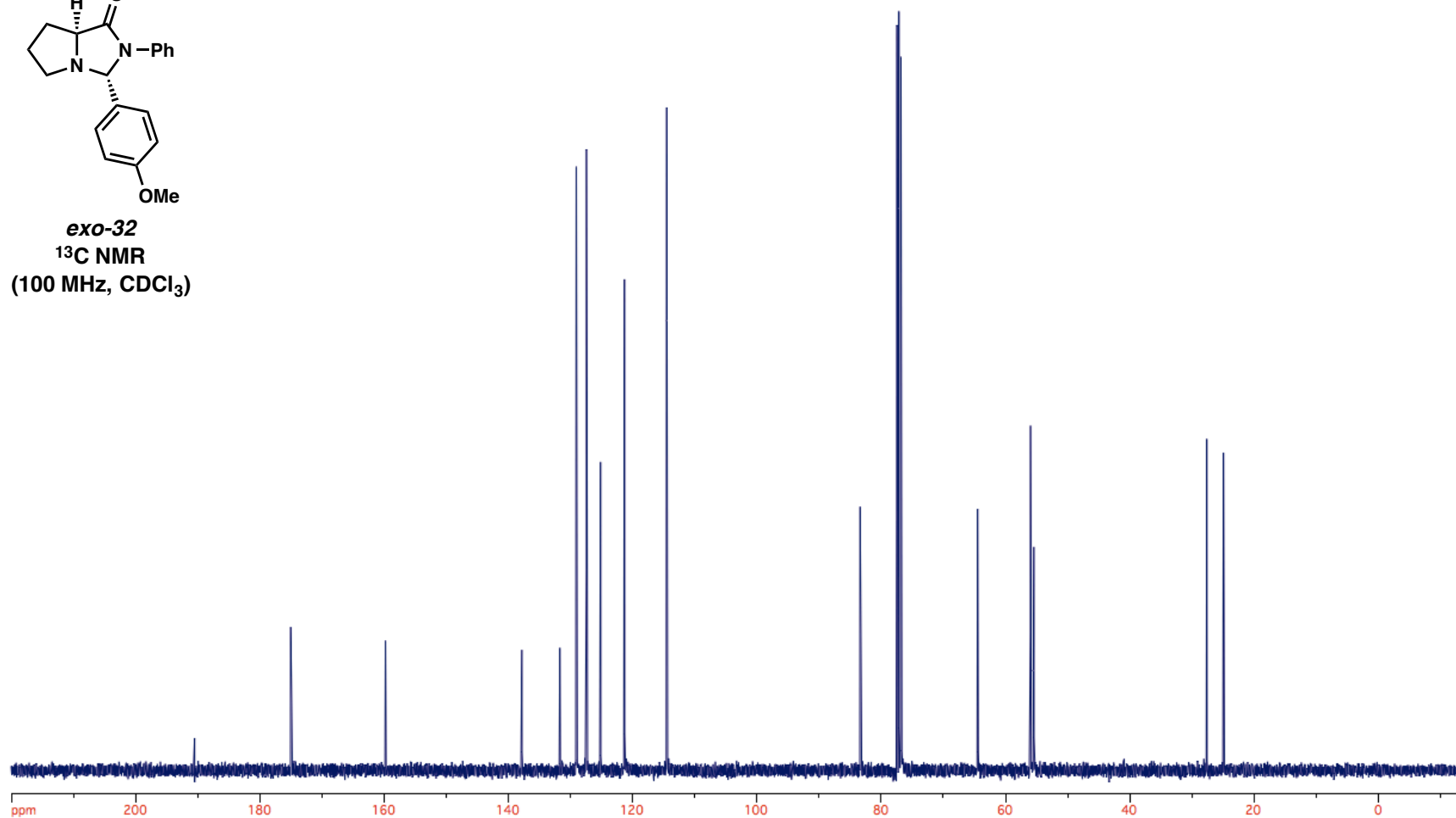


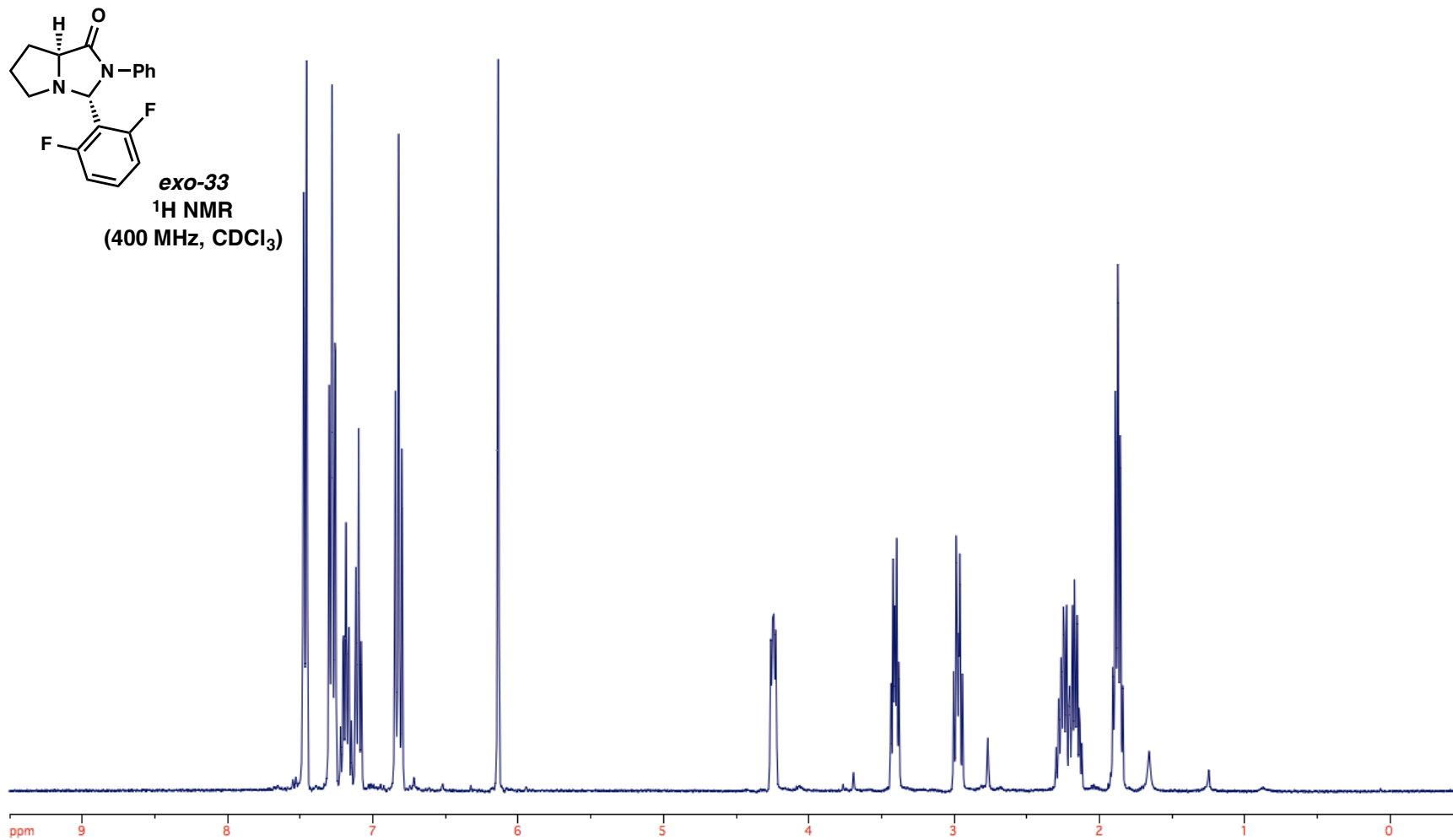
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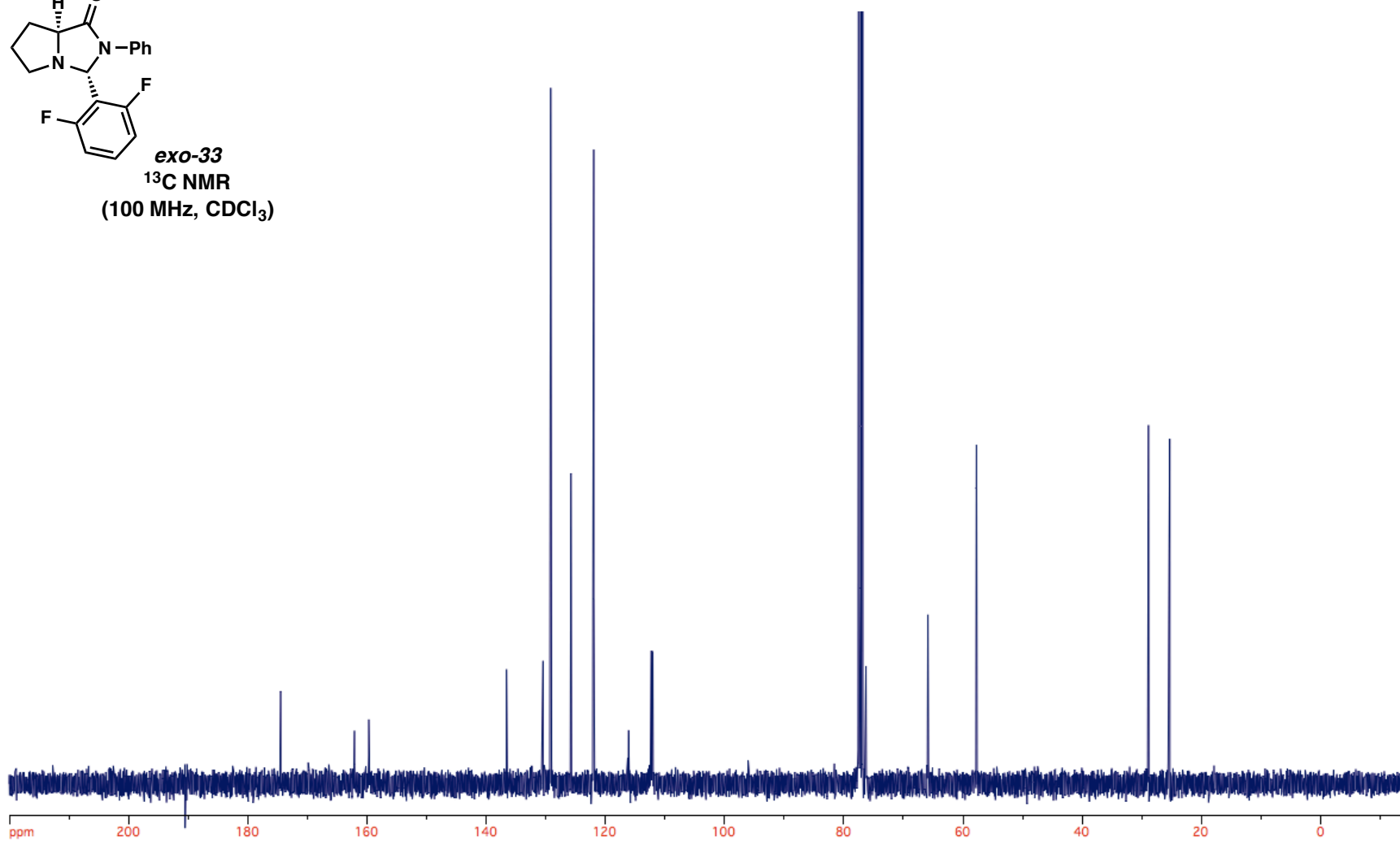
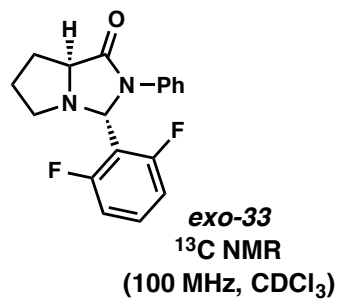


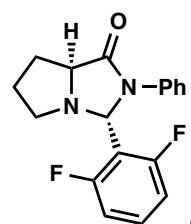


exo-32
¹³C NMR
(100 MHz, CDCl₃)

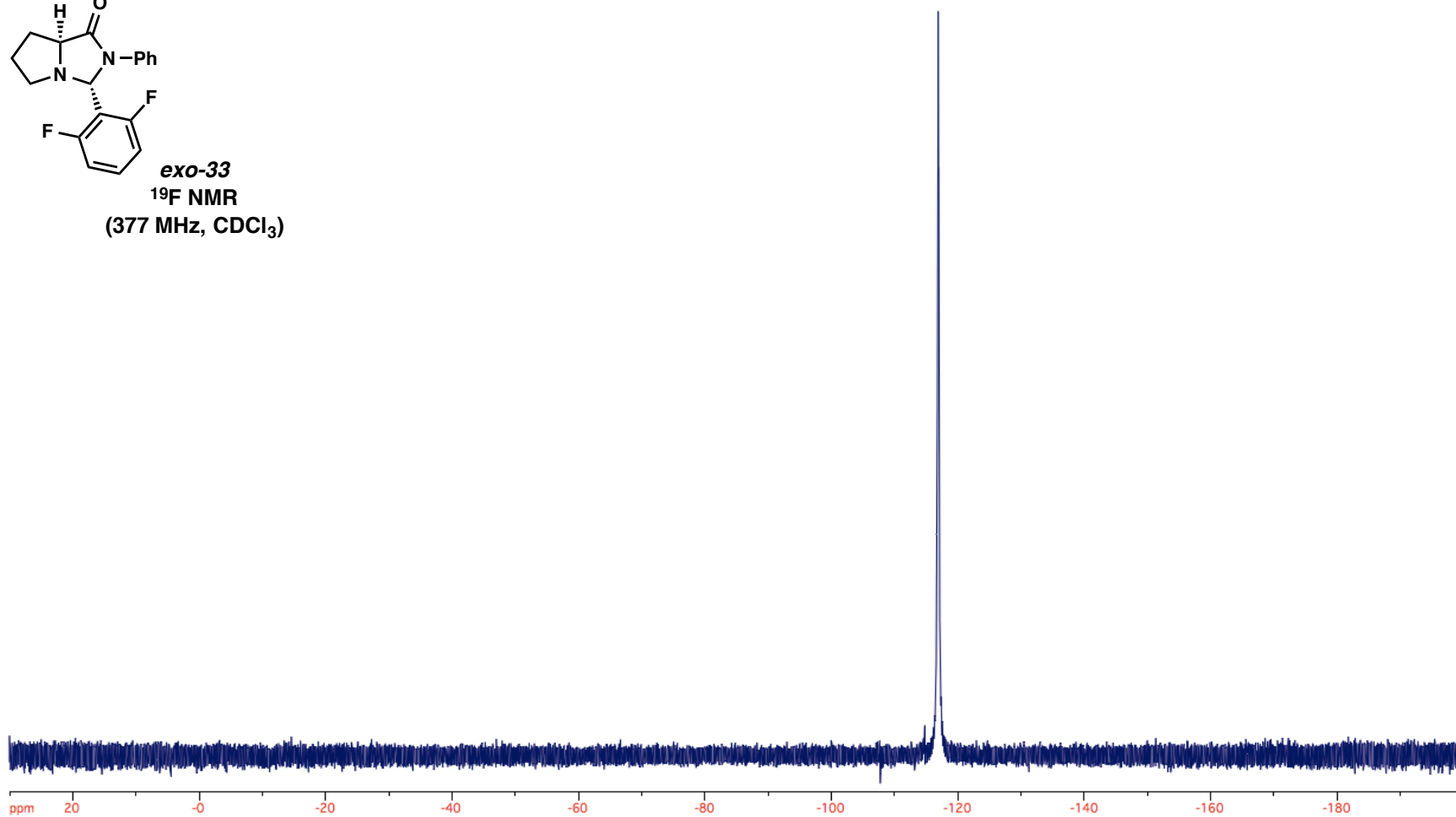


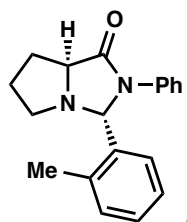




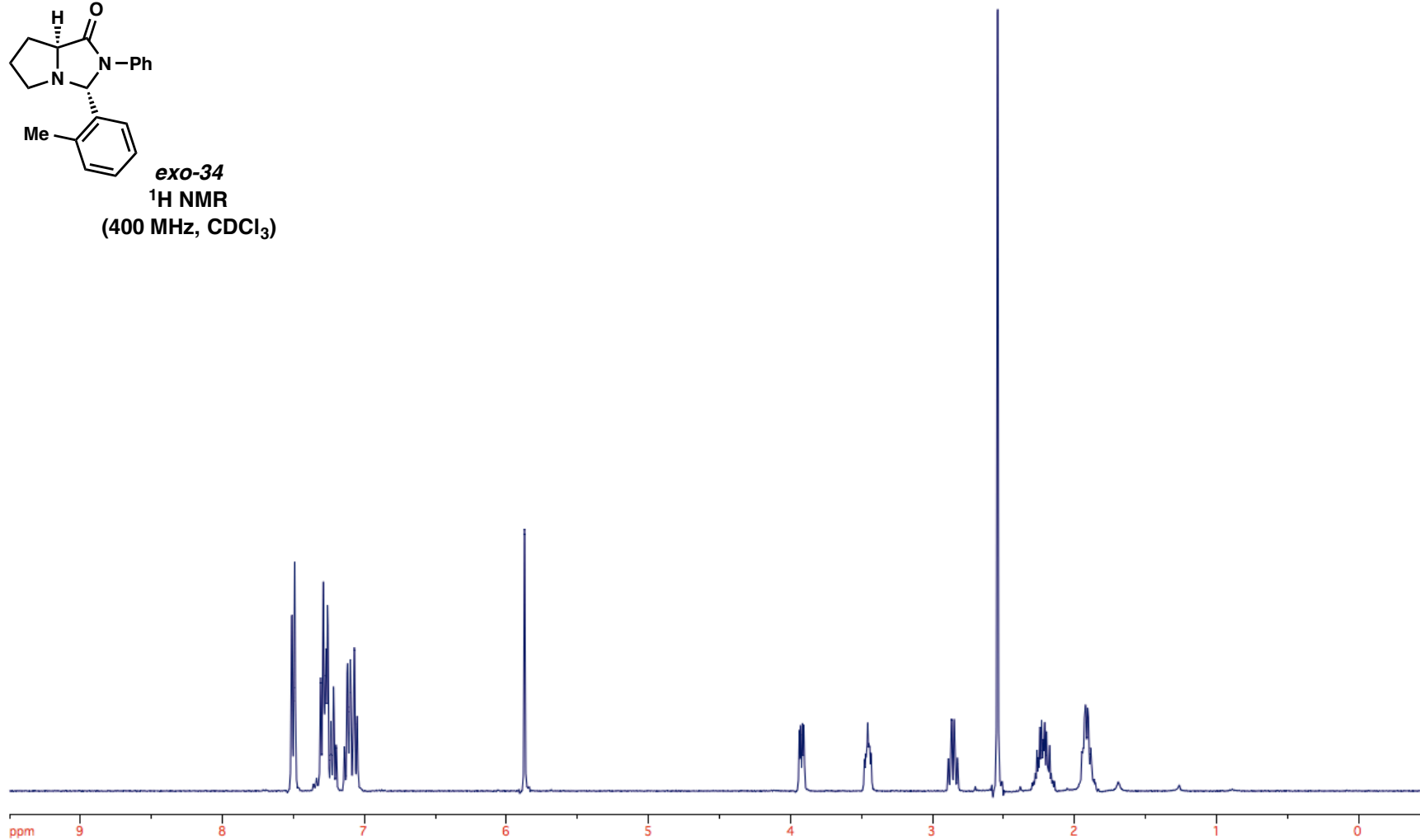


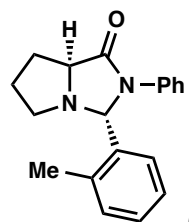
exo-33
¹⁹F NMR
(377 MHz, CDCl₃)



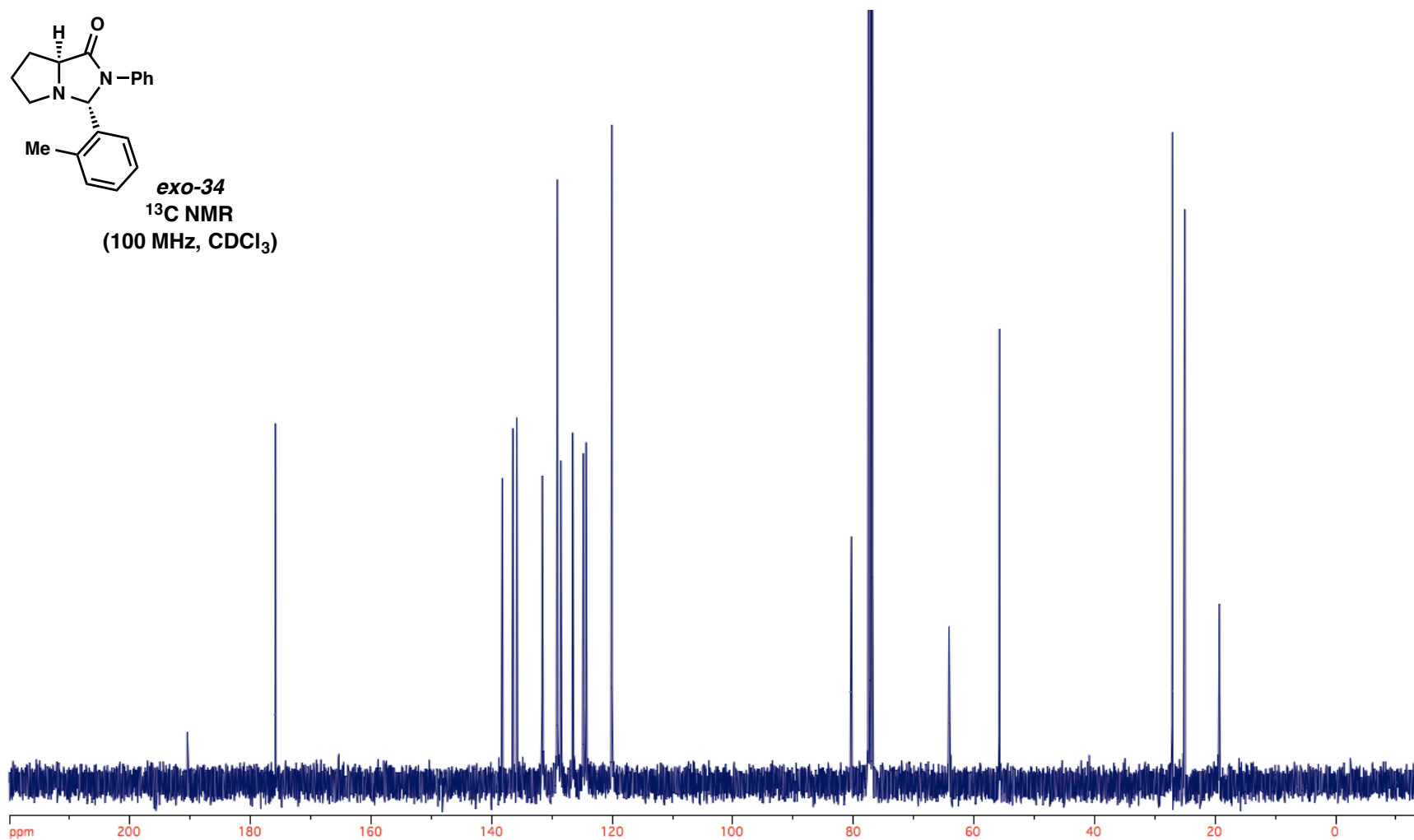


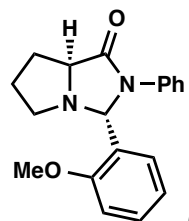
exo-34
¹H NMR
(400 MHz, CDCl₃)



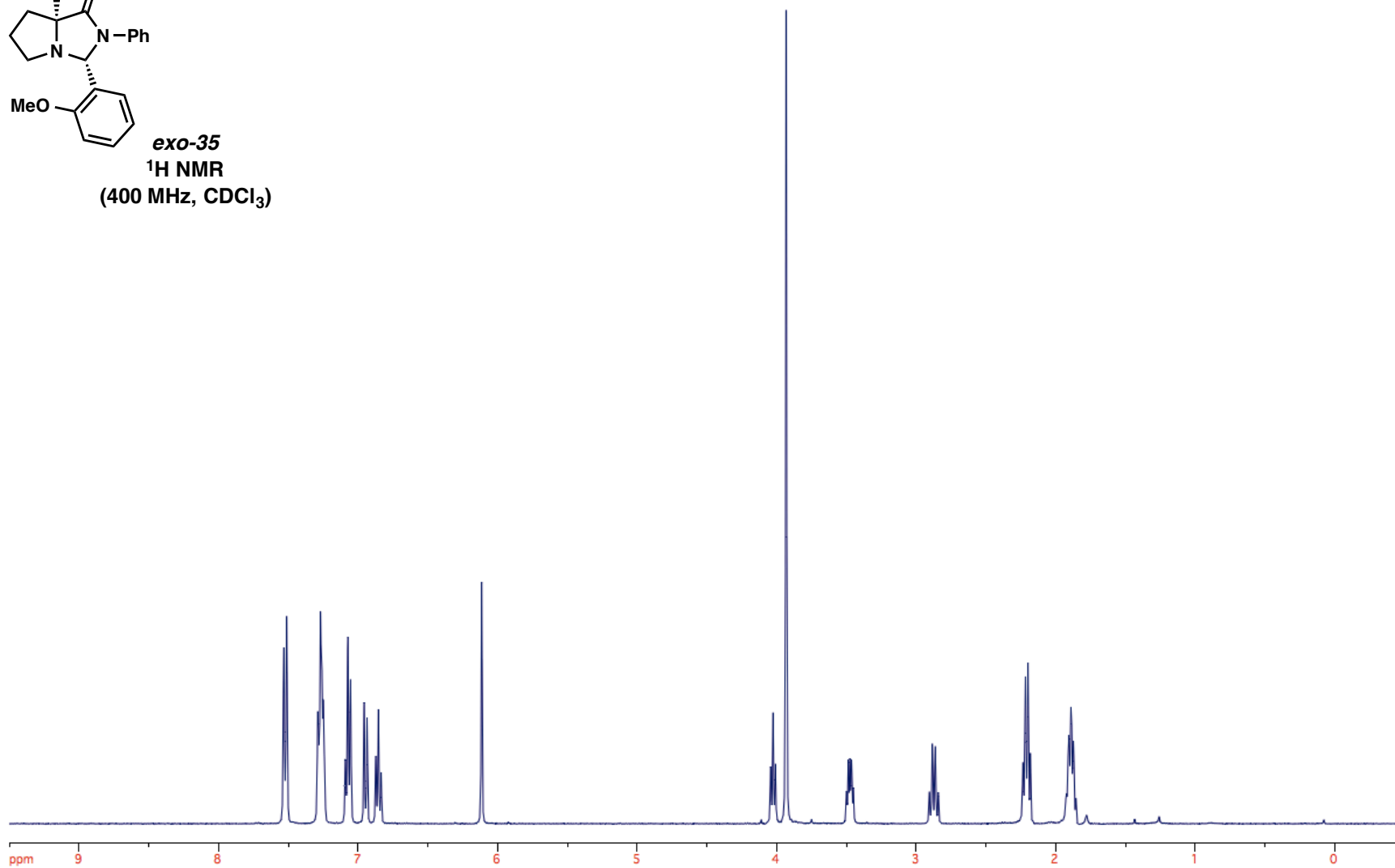


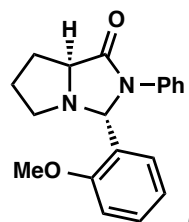
exo-34
¹³C NMR
(100 MHz, CDCl₃)



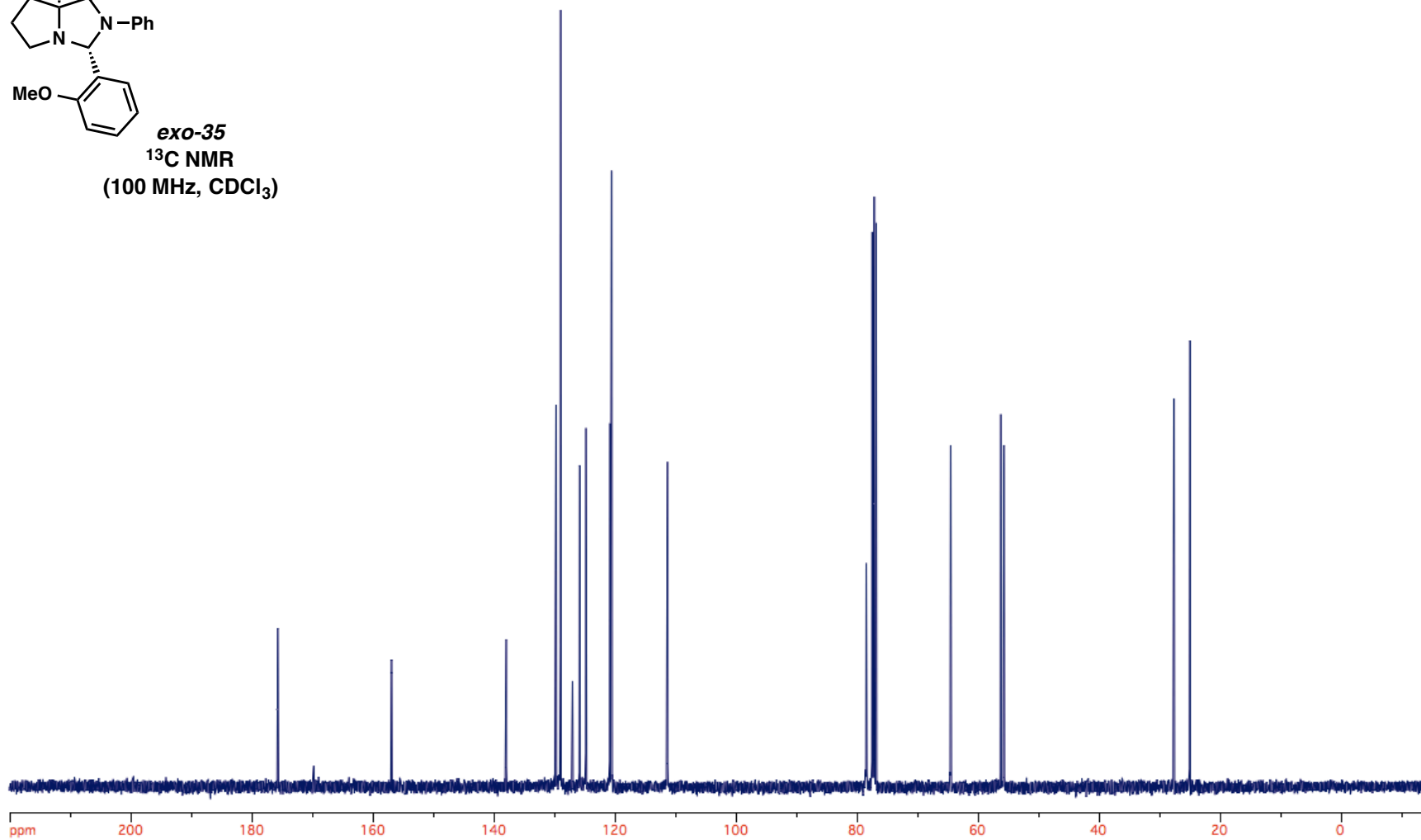


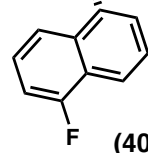
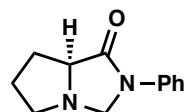
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¹H NMR
(400 MHz, CDCl₃)



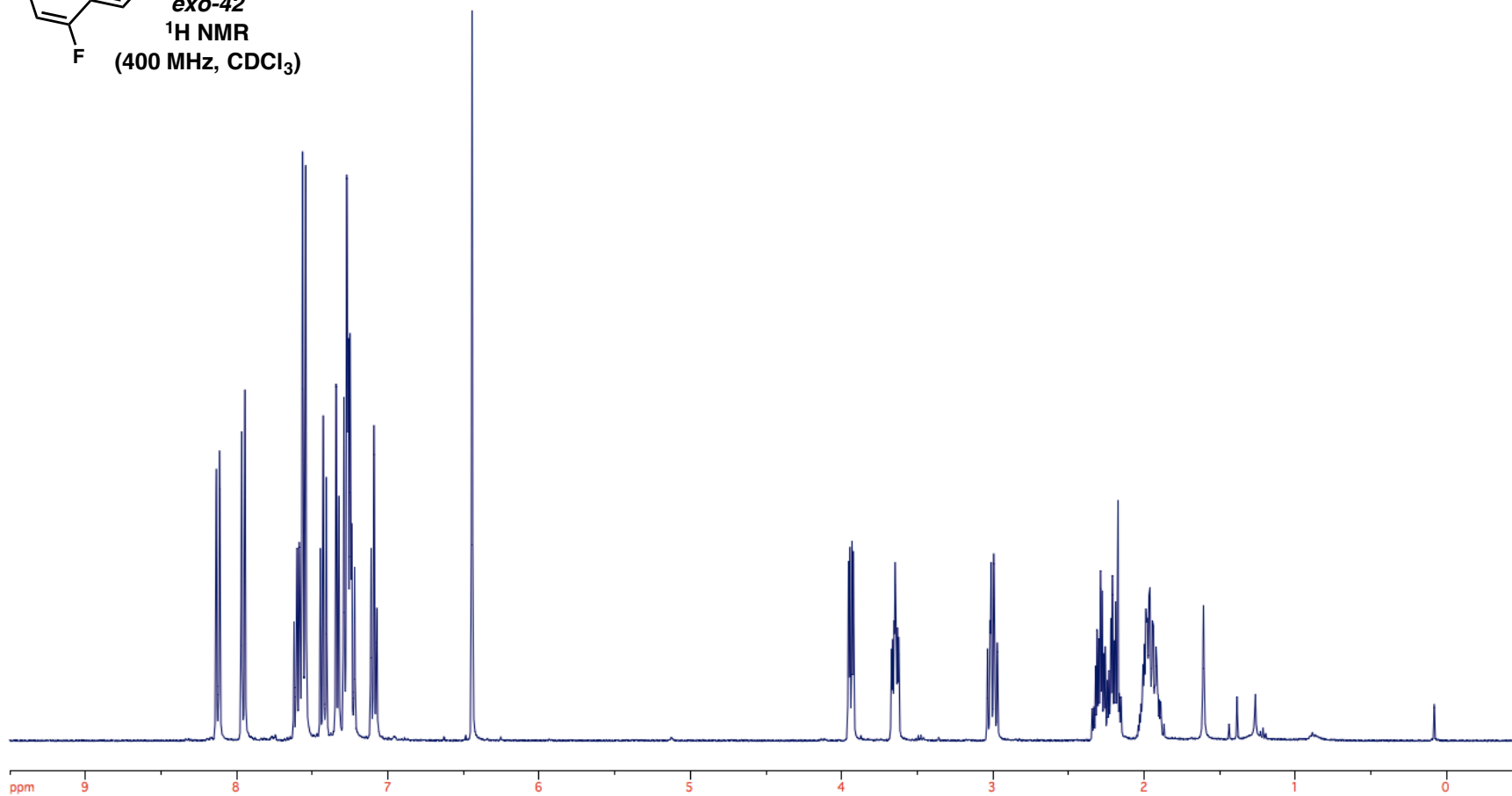


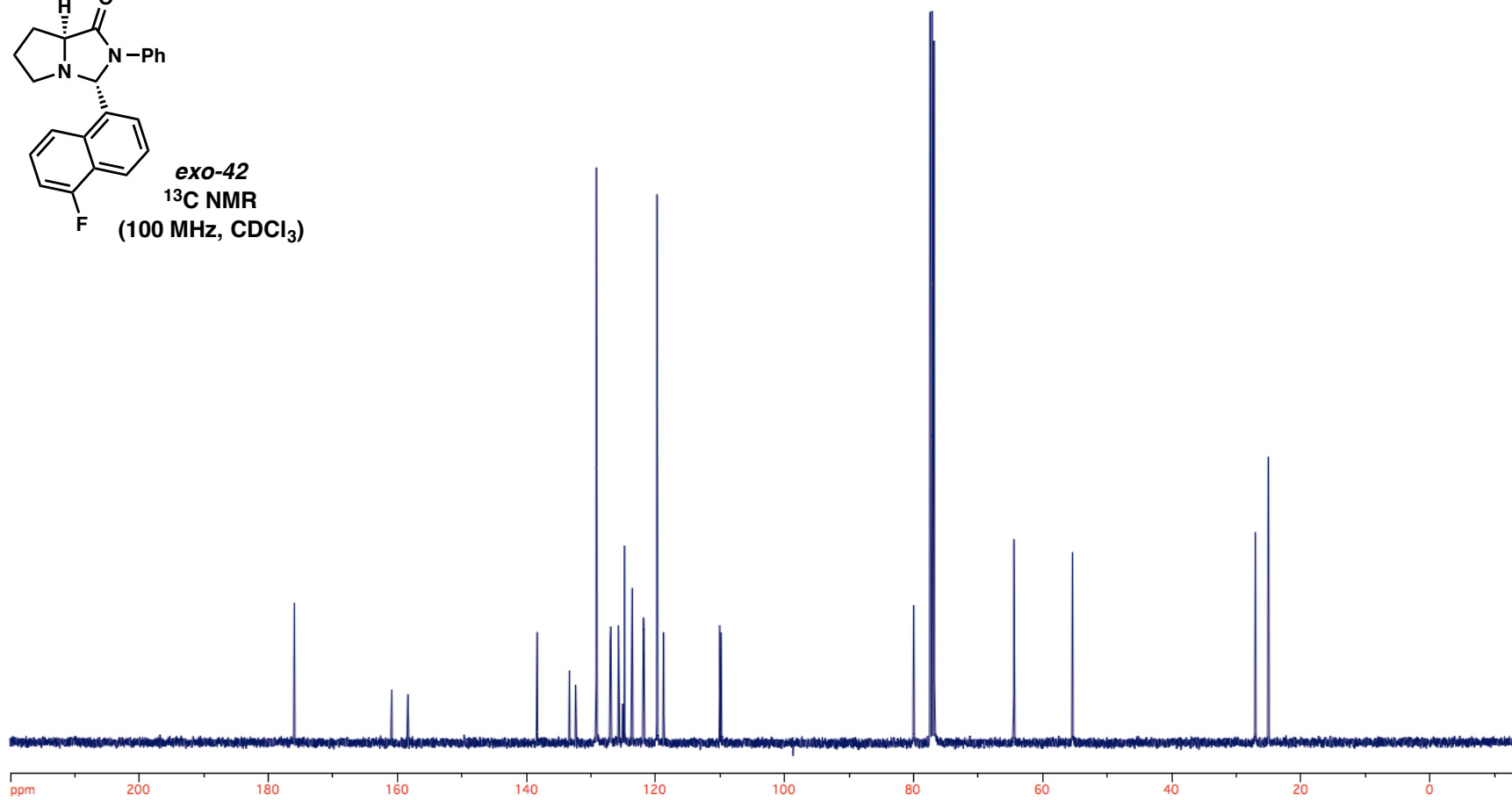
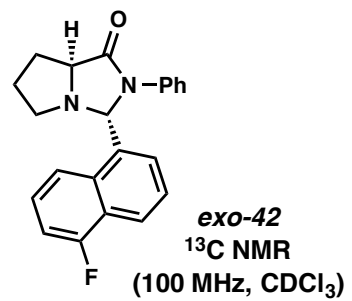
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(100 MHz, CDCl₃)

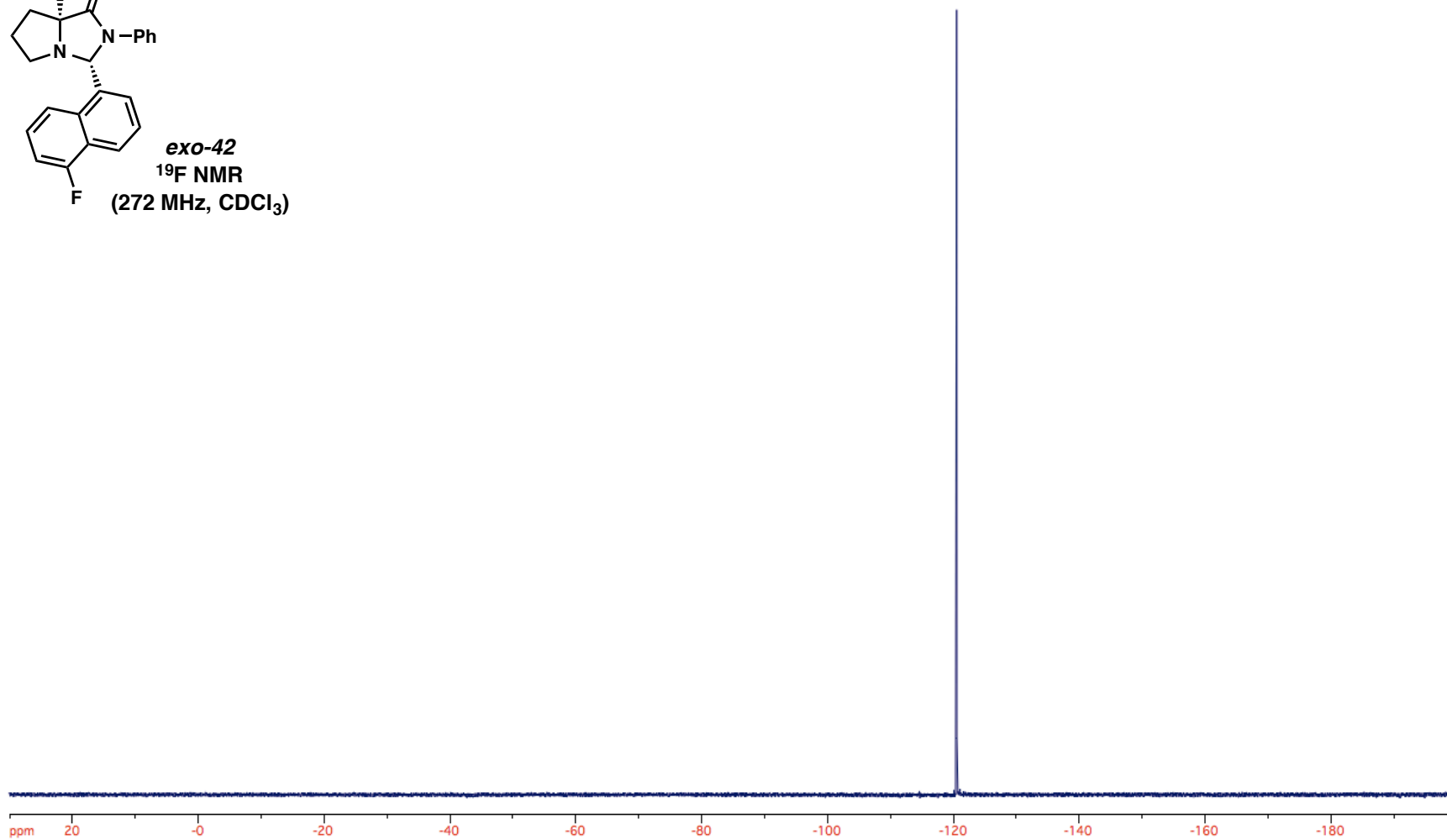
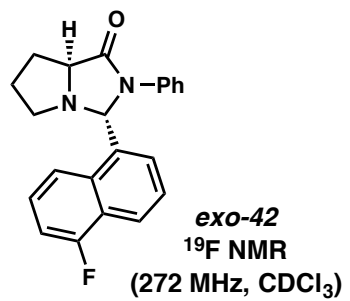


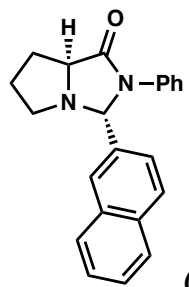


exo-42
¹H NMR
(400 MHz, CDCl₃)

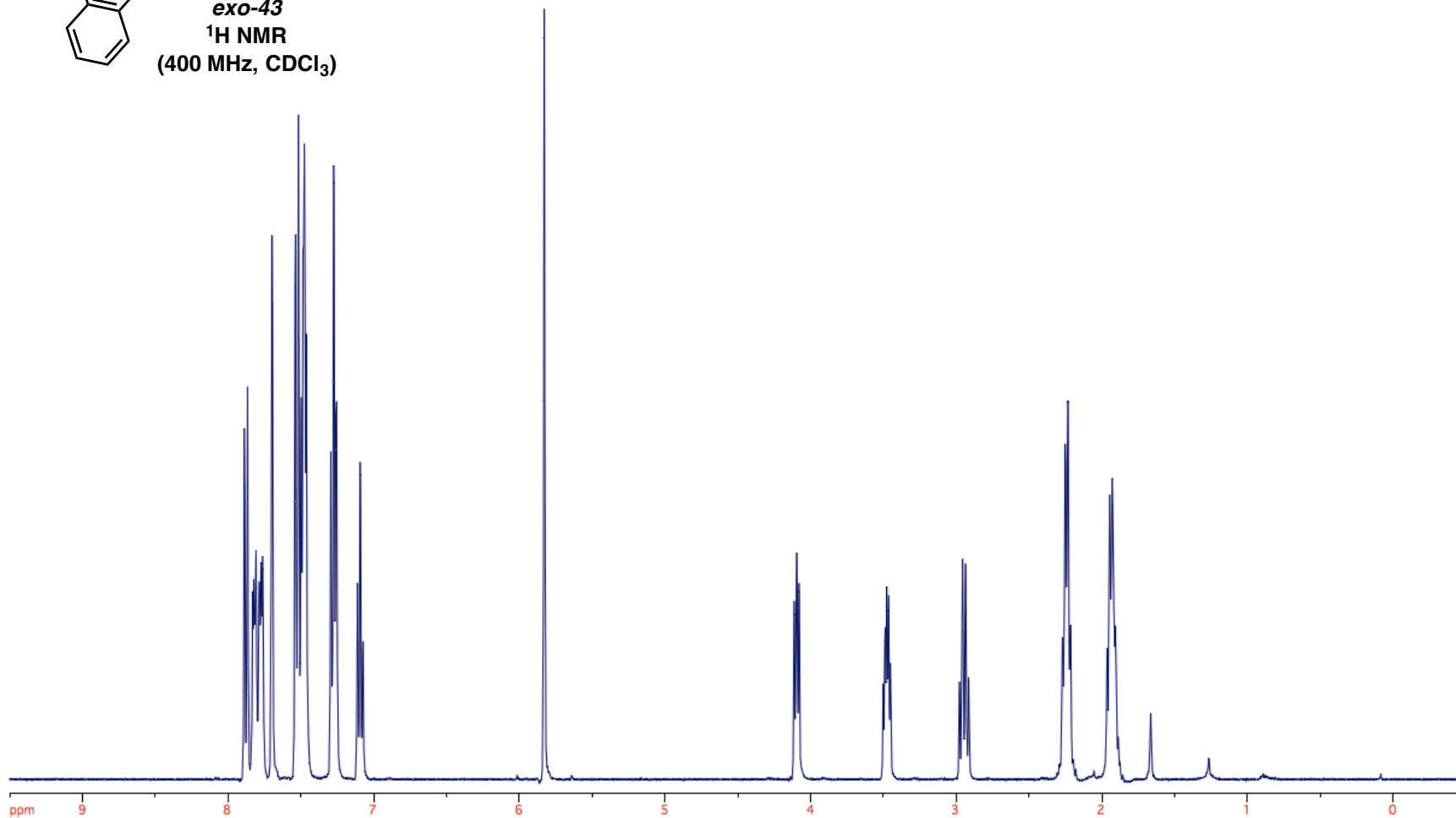


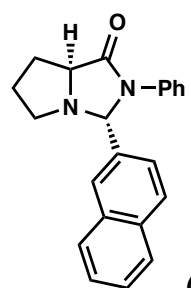




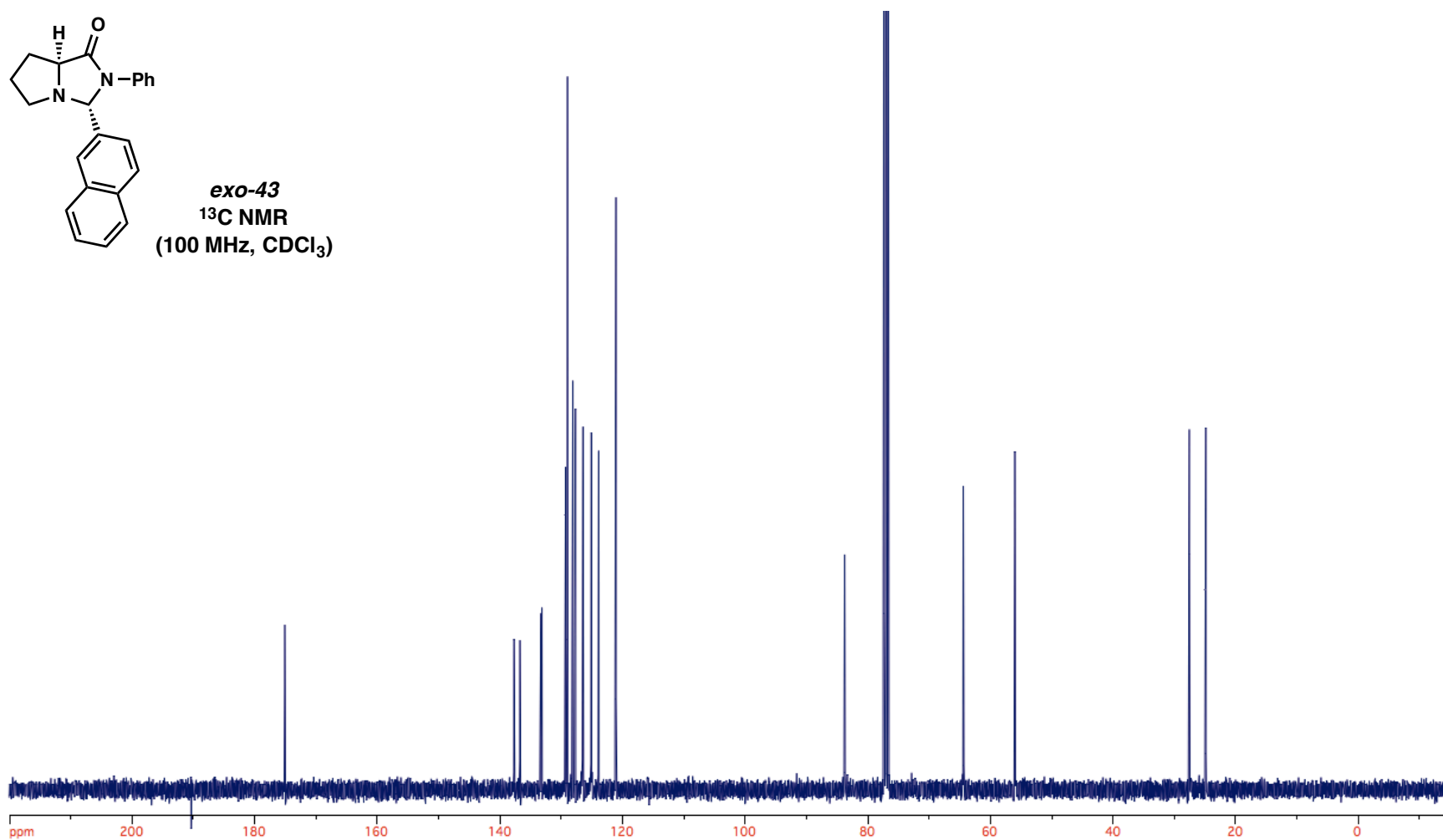


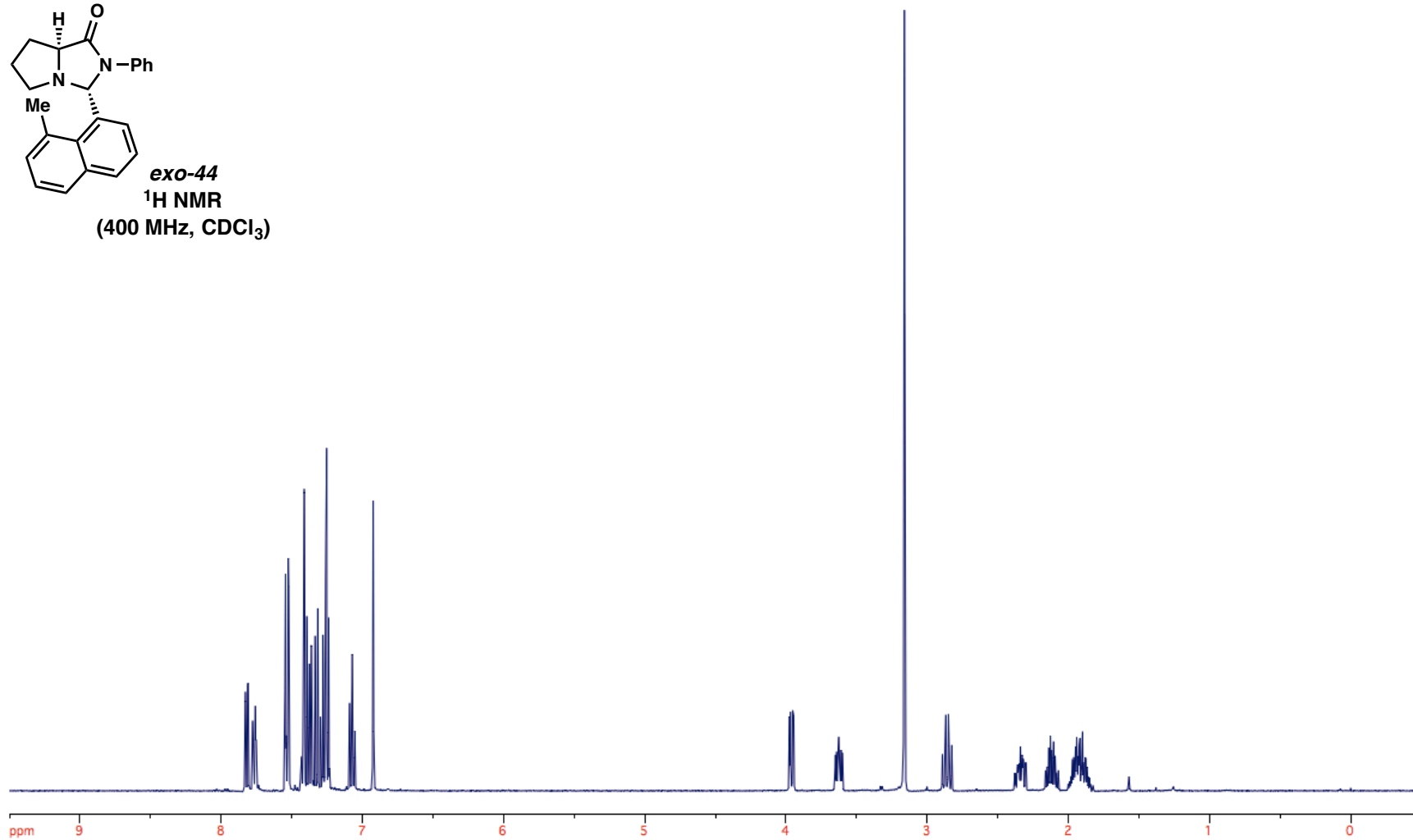
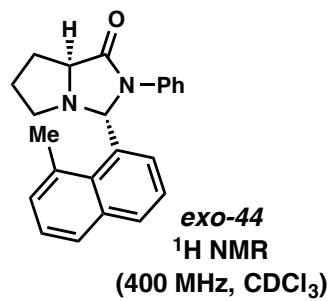
exo-43
 ^1H NMR
(400 MHz, CDCl_3)

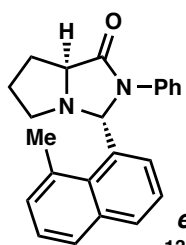




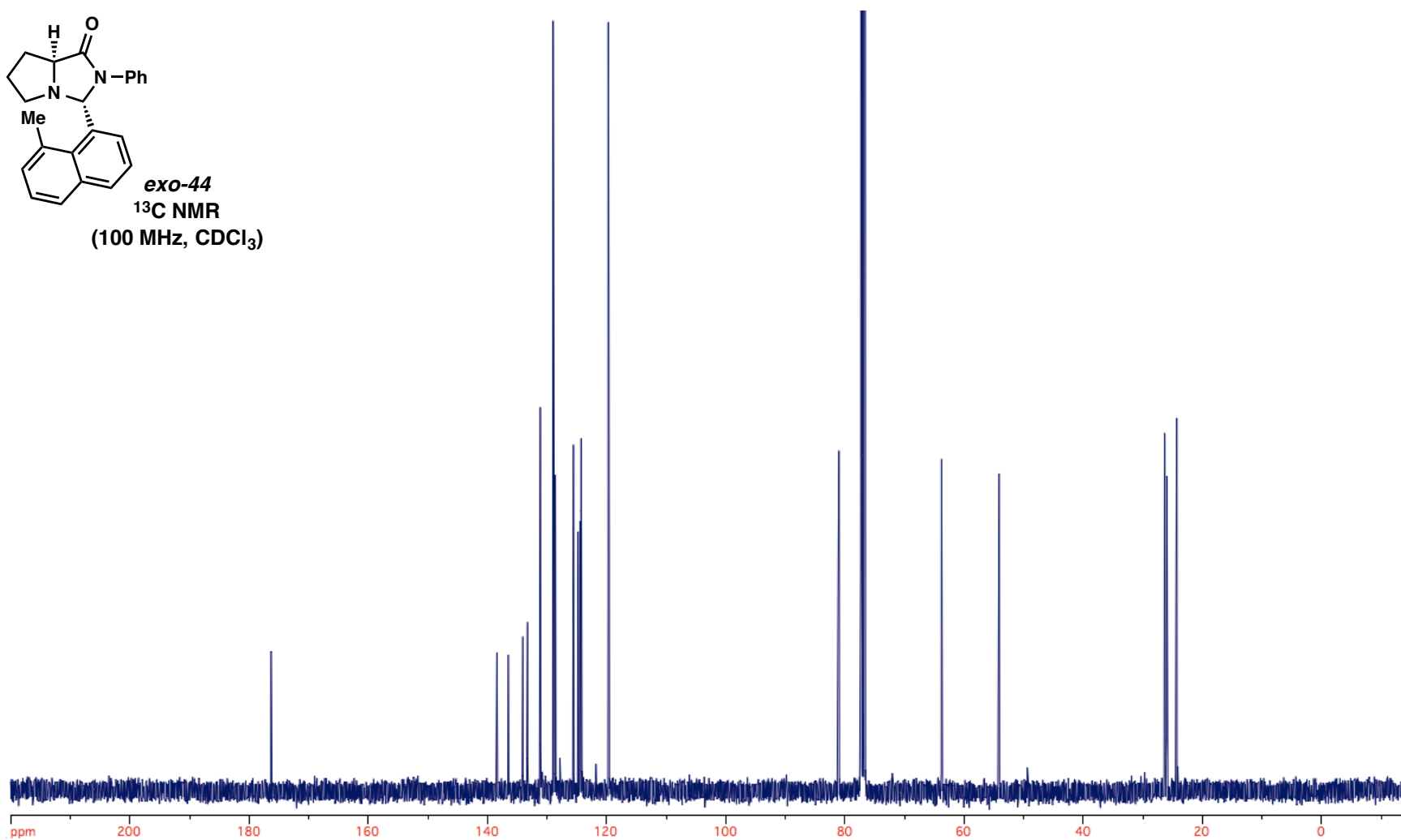
exo-43
¹³C NMR
(100 MHz, CDCl₃)

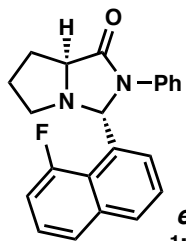




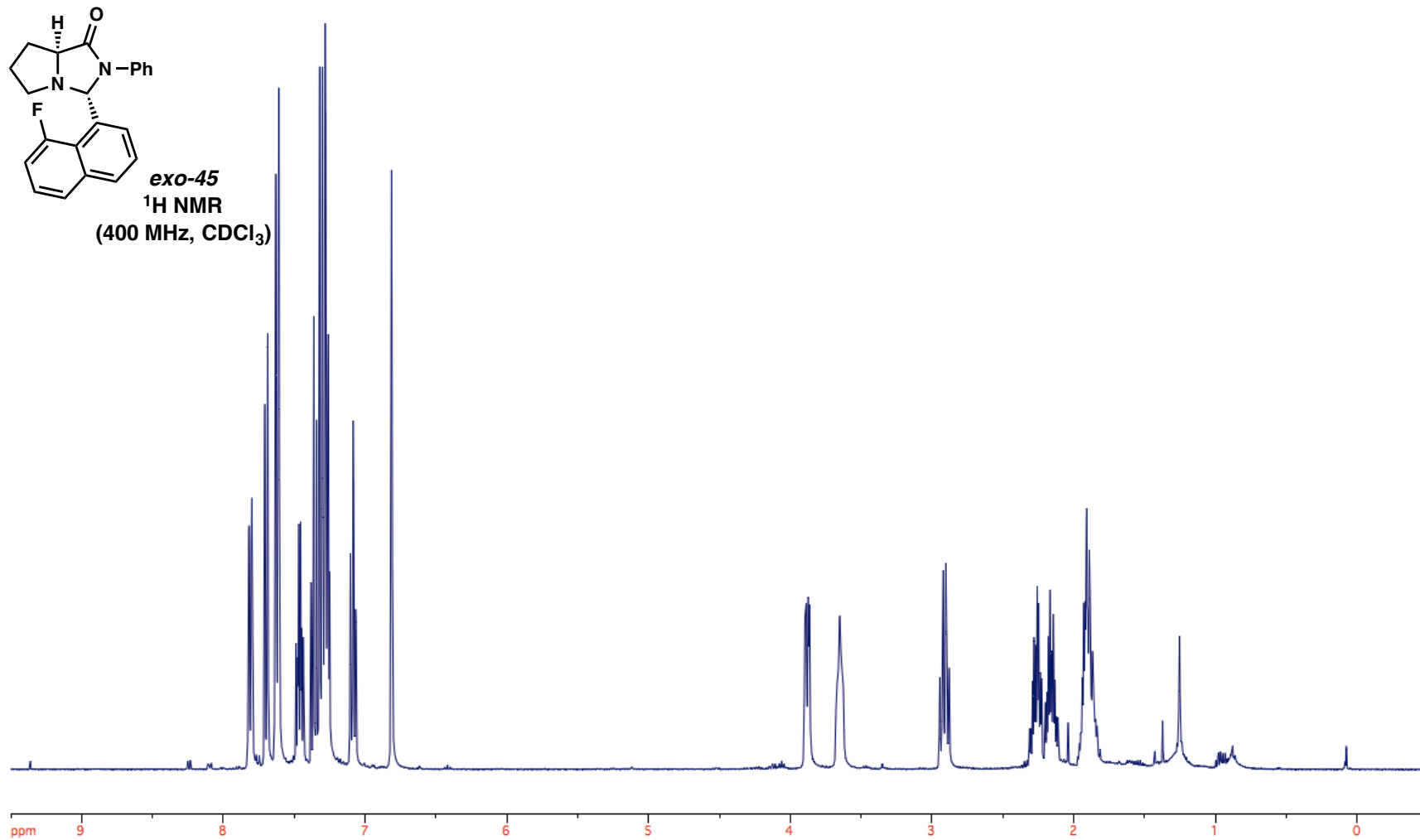


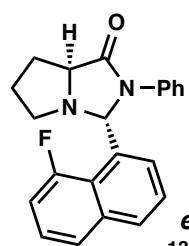
exo-44
¹³C NMR
(100 MHz, CDCl₃)



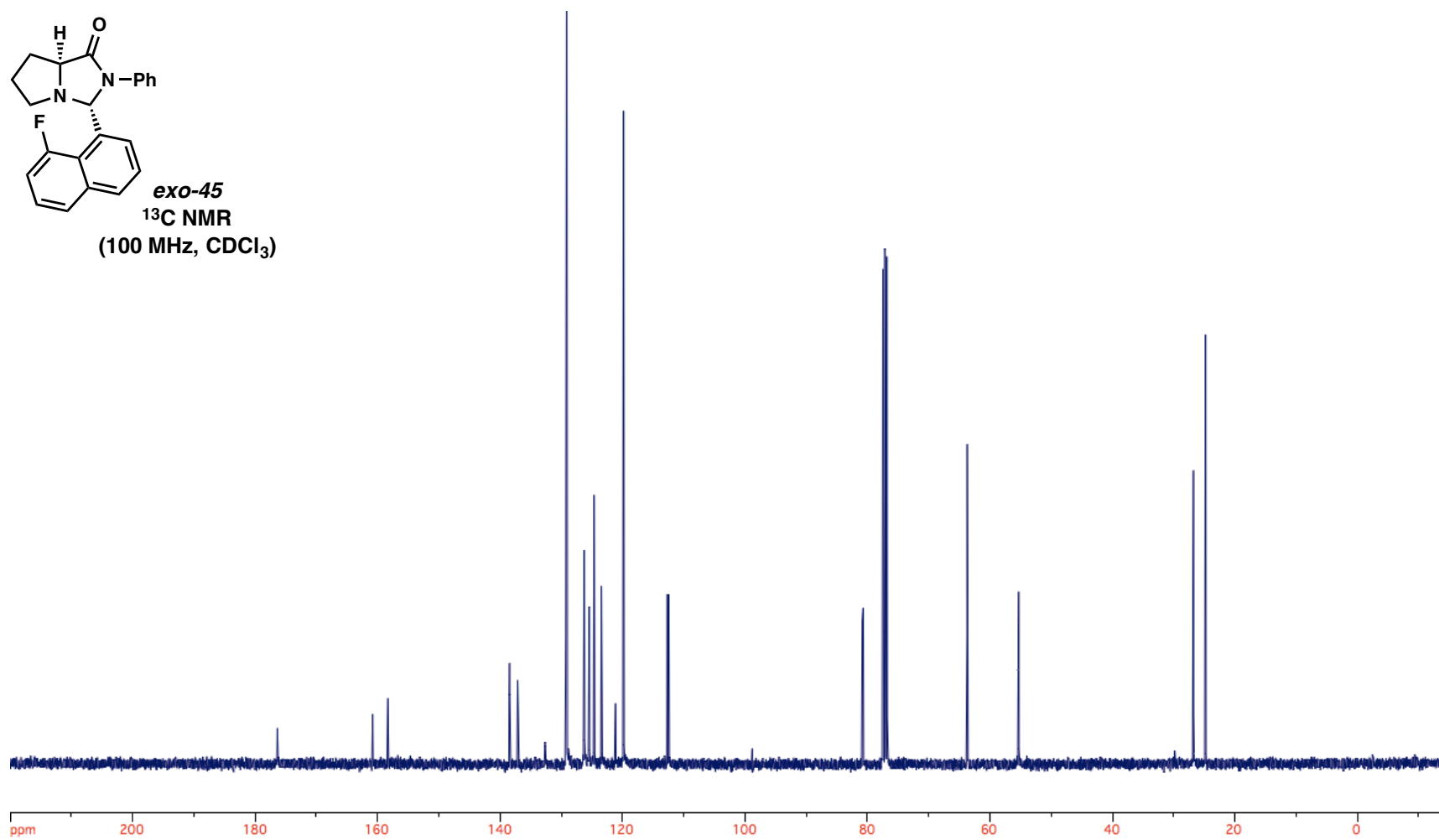


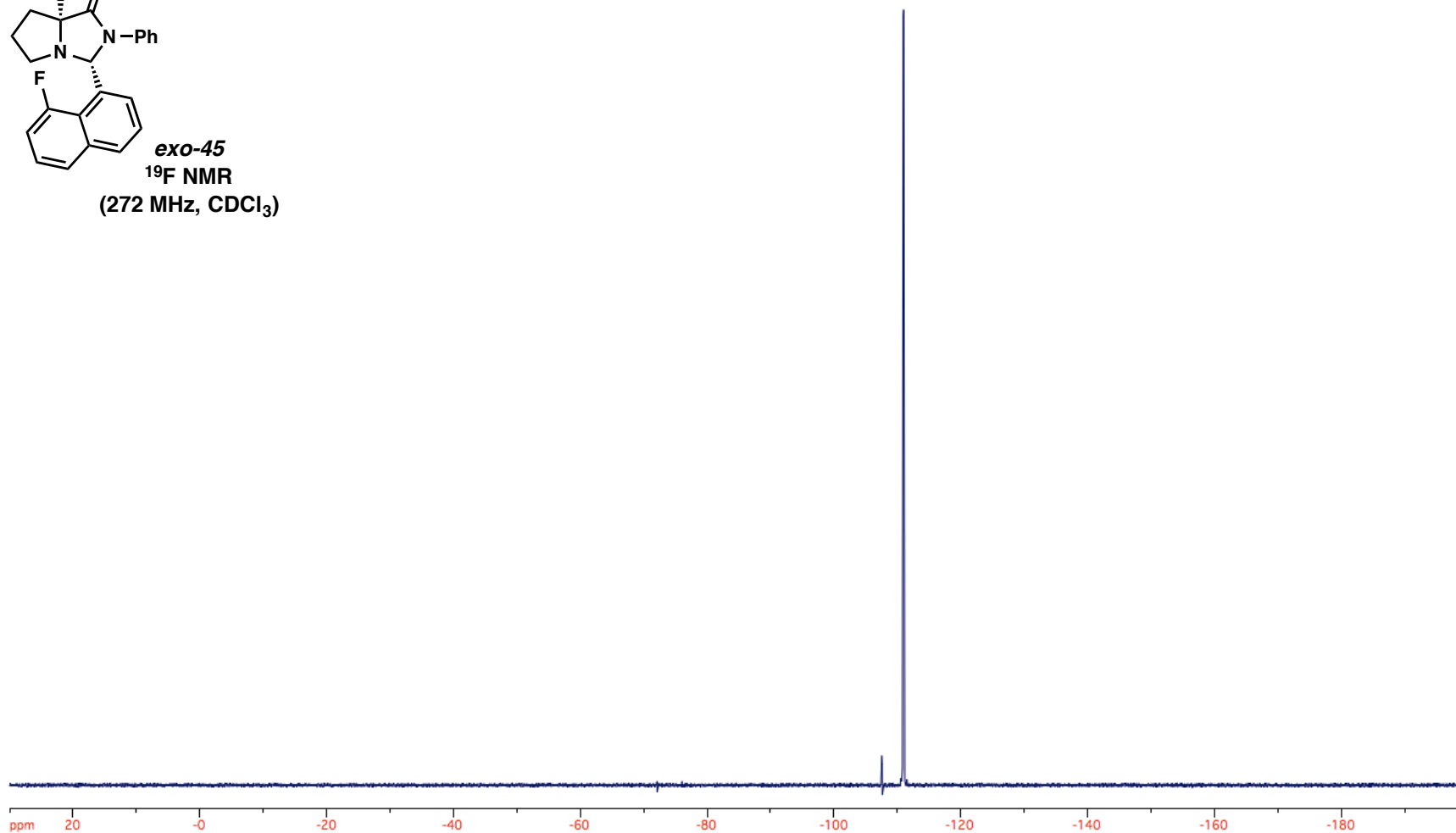
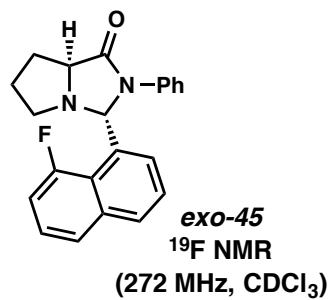
exo-45
¹H NMR
(400 MHz, CDCl₃)

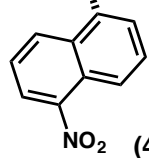
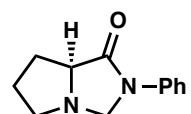




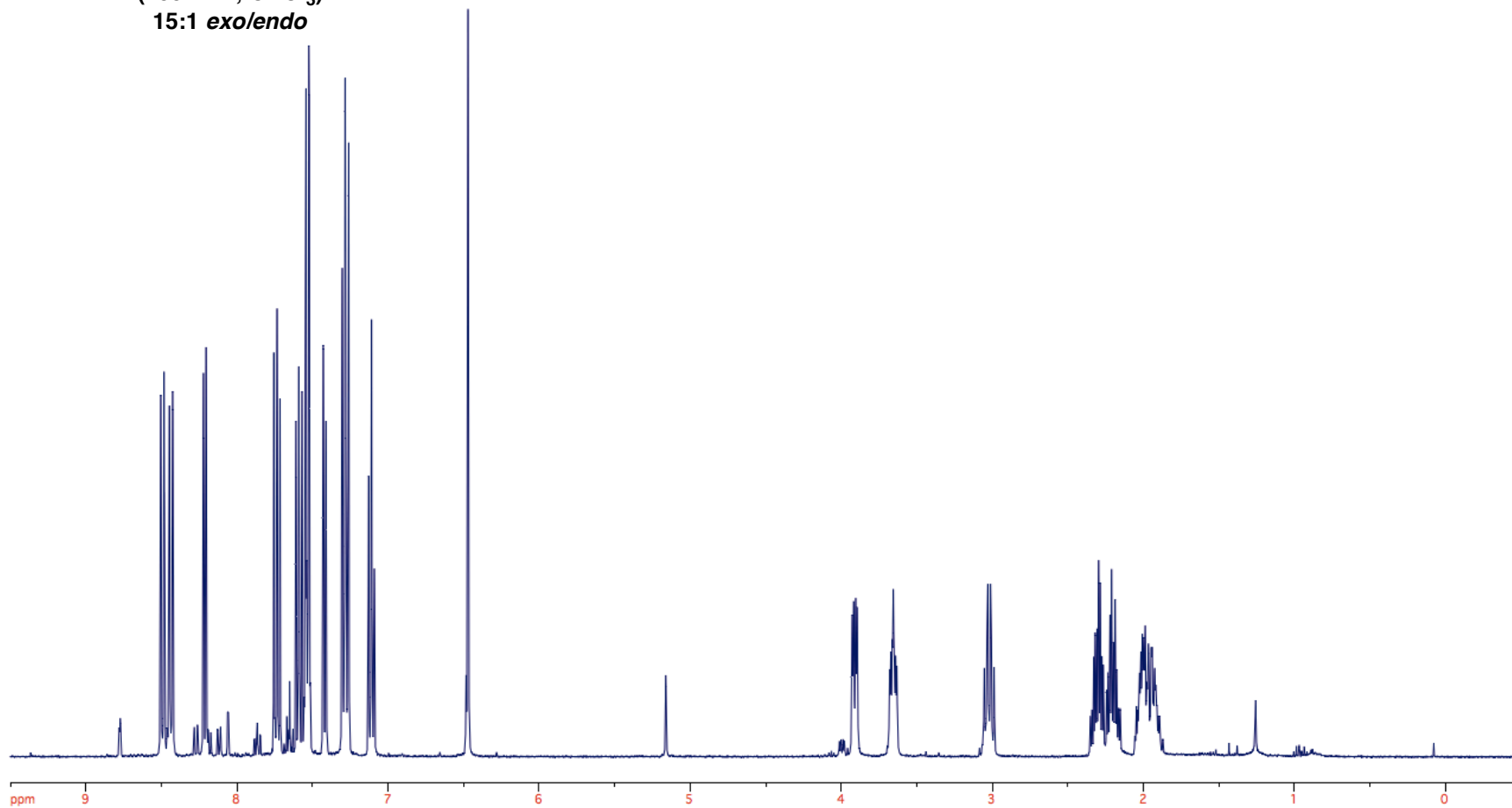
exo-45
¹³C NMR
(100 MHz, CDCl₃)

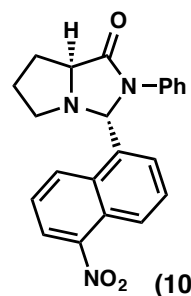






exo-46
¹H NMR
(400 MHz, CDCl₃)
15:1 exo/endo





***exo*-46**
¹³C NMR
(100 MHz, CDCl₃)
15:1 *exo/endo*

