

Supporting Information

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Enantioselective Aza-Henry Reaction of *t*-Boc Protected Imines and Nitroalkanes with Bifunctional Squaramide Organocatalysts

Dilşad Susam, Cihangir Tanyeli*

Department of Chemistry, Middle East Technical University, 06800 Ankara, Turkey

tanyeli@metu.edu.tr

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1. ^1H and ^{13}C Spectra

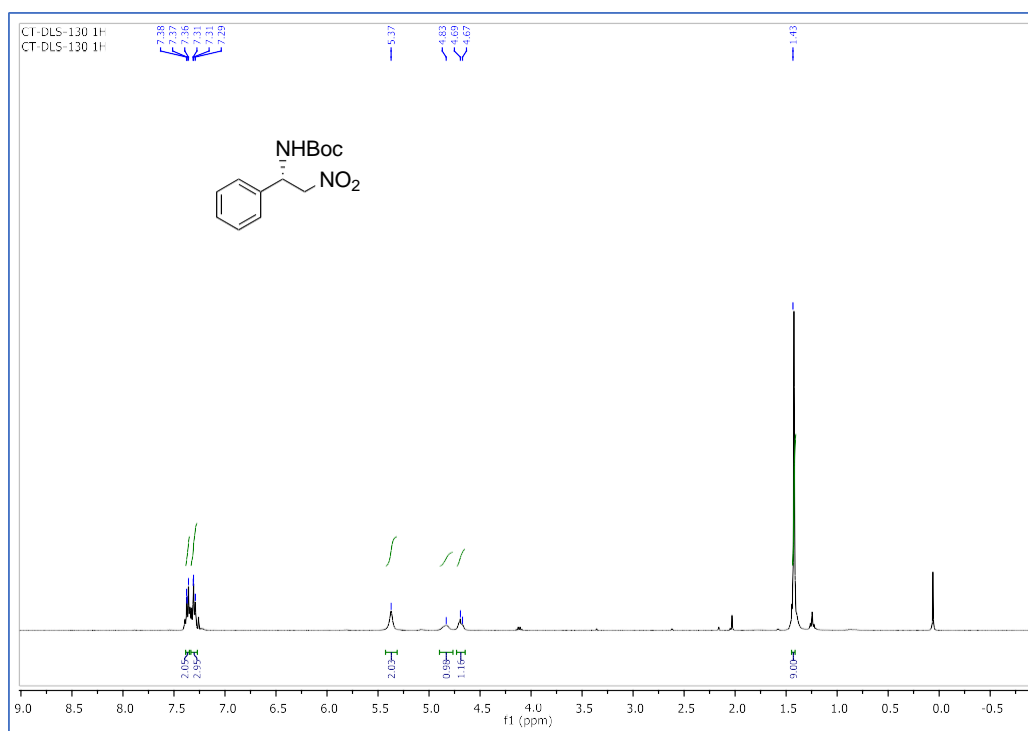


Figure 1. ^1H NMR spectrum of compound **2a**

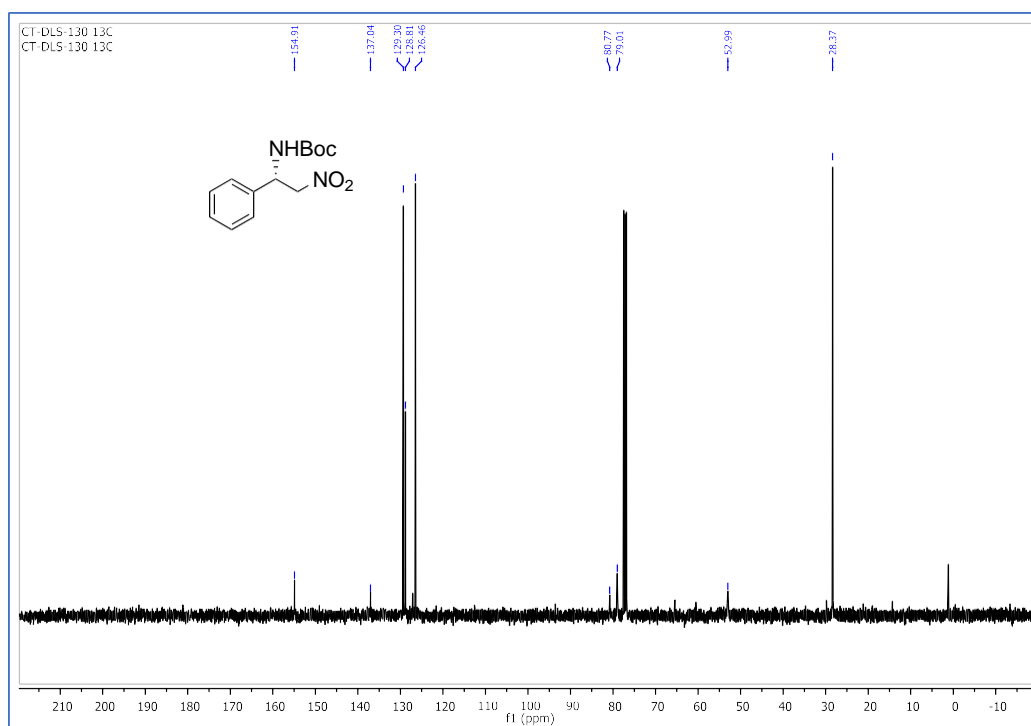


Figure 2. ^{13}C NMR spectrum of compound **2a**

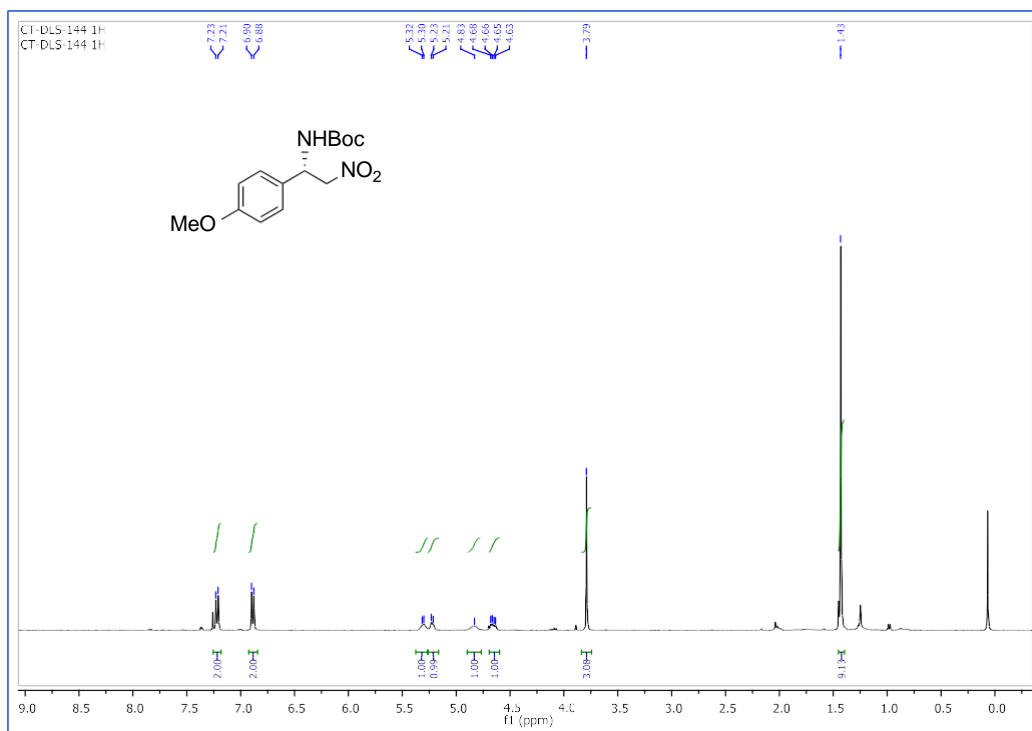


Figure 3. ^1H NMR spectrum of compound 2b

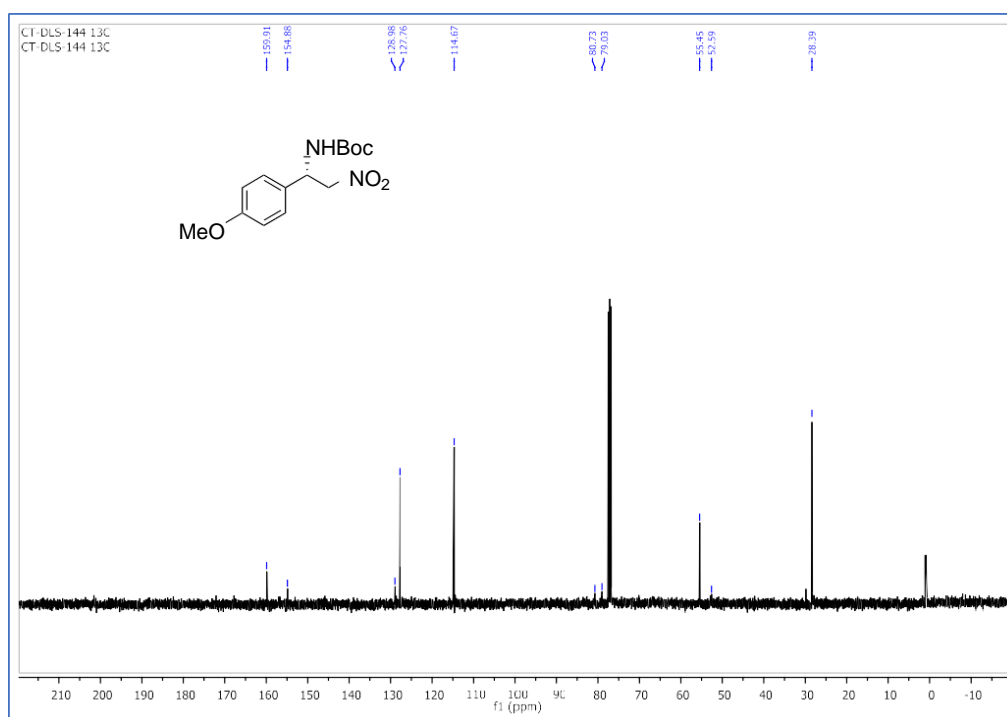
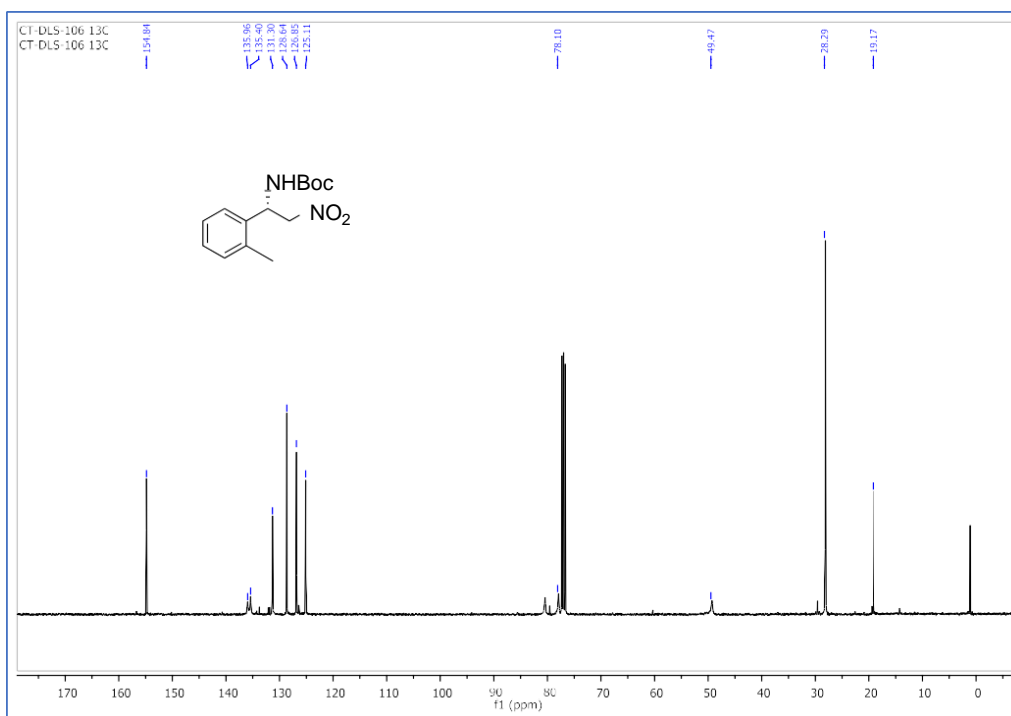
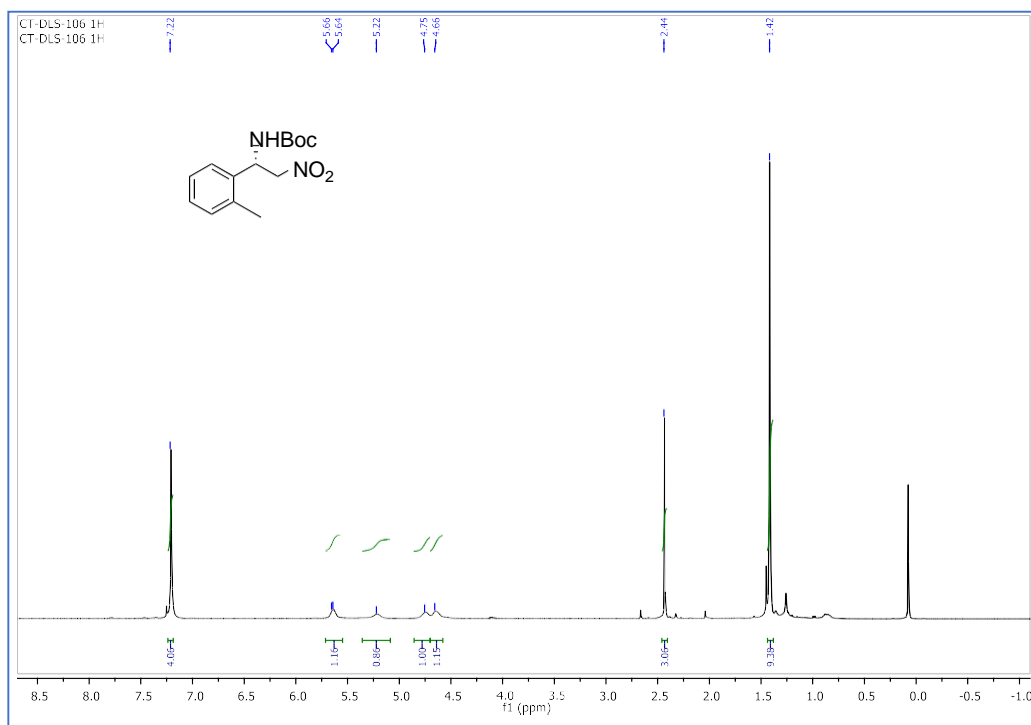


Figure 4. ^{13}C NMR spectrum of compound 2b



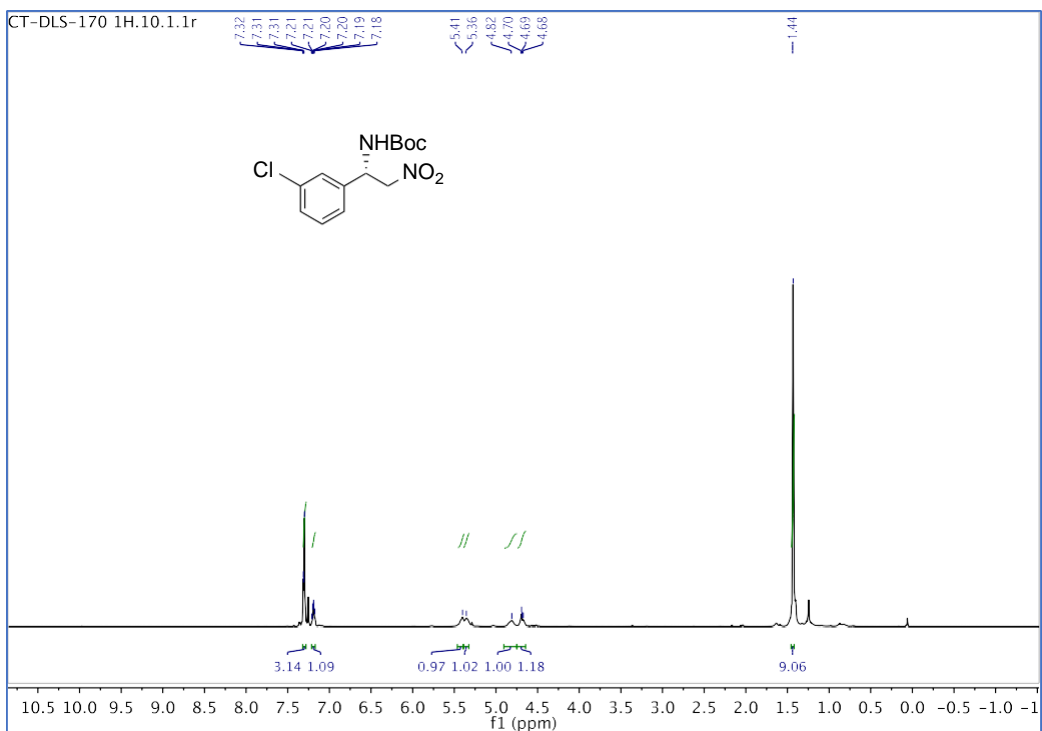


Figure 7. ^1H NMR spectrum of compound **2d**

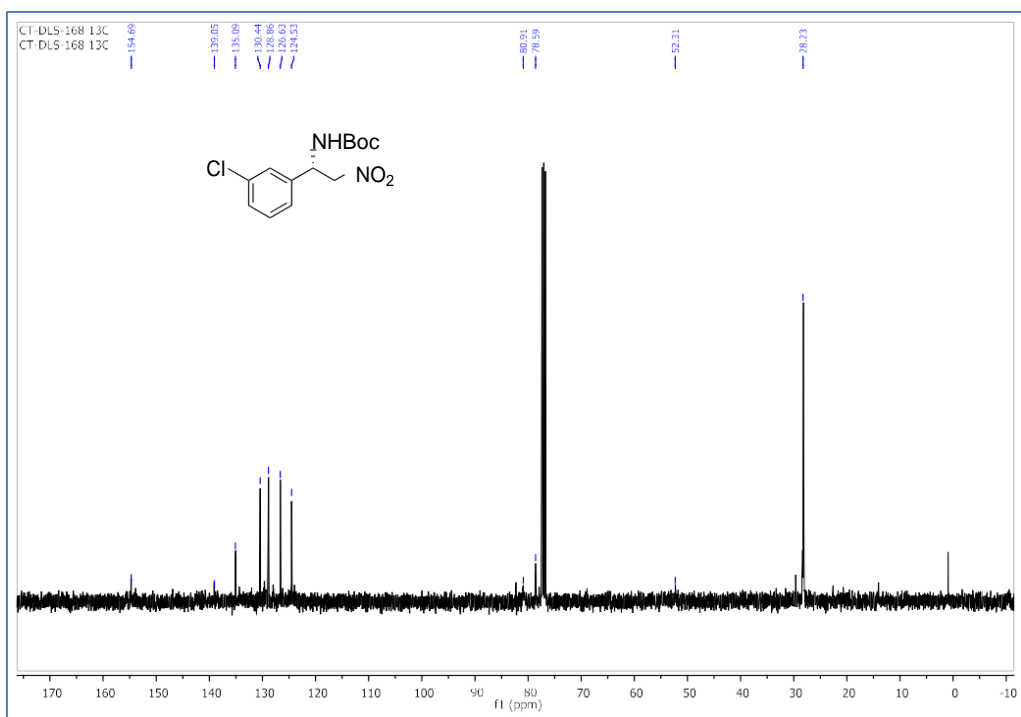


Figure 8. ^{13}C NMR spectrum of compound **2d**

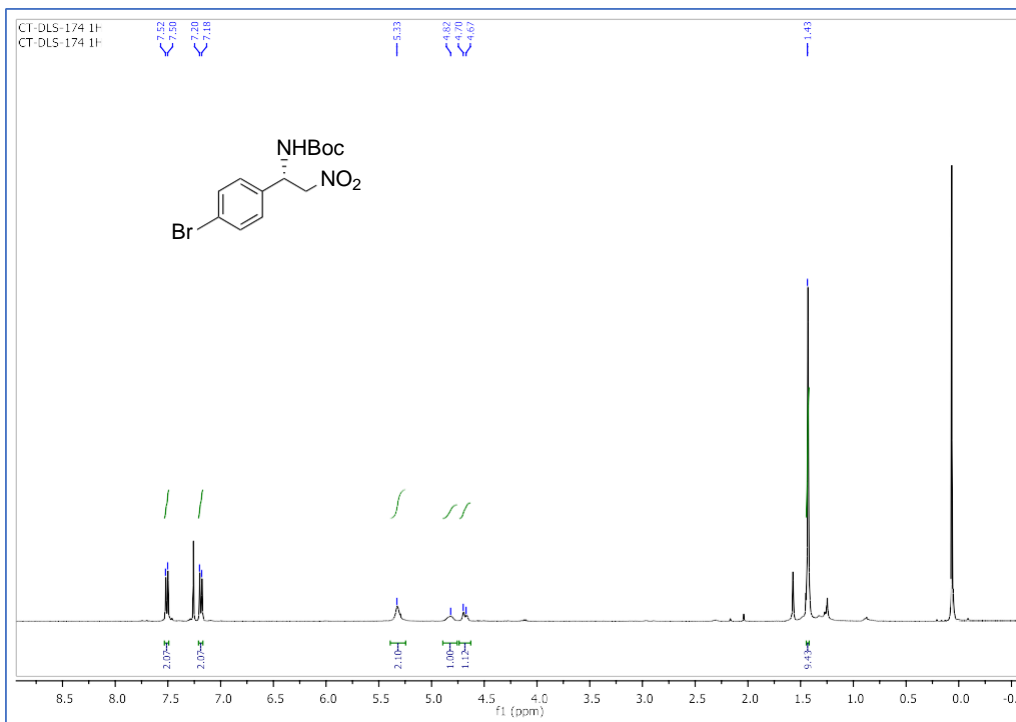


Figure 9. ^1H NMR spectrum of compound 2e

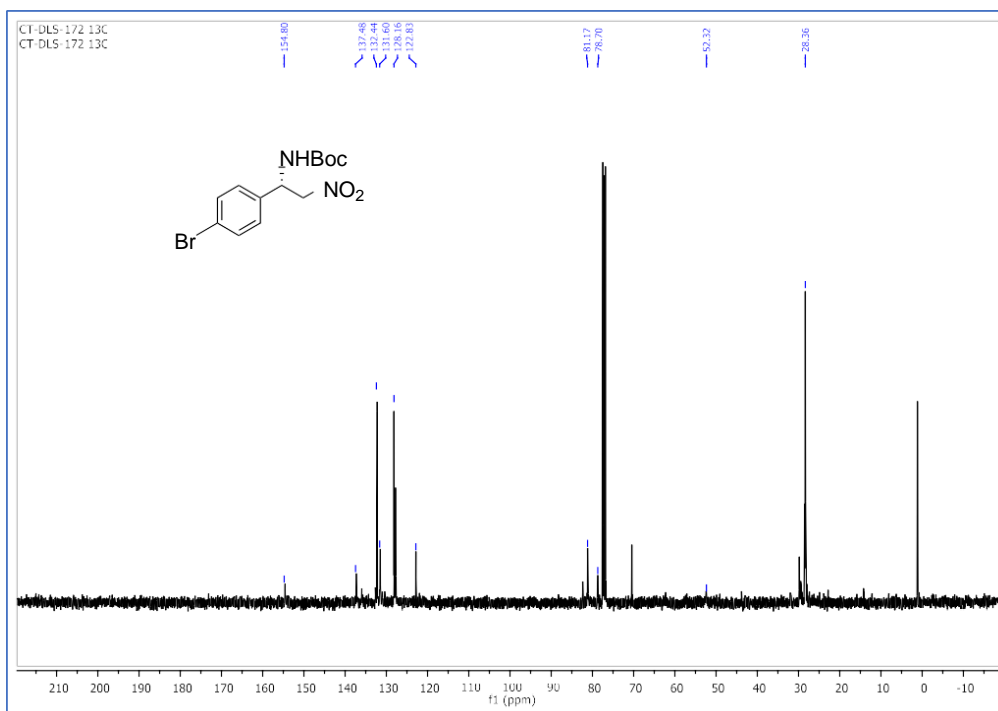


Figure 10. ^{13}C NMR spectrum of compound 2e

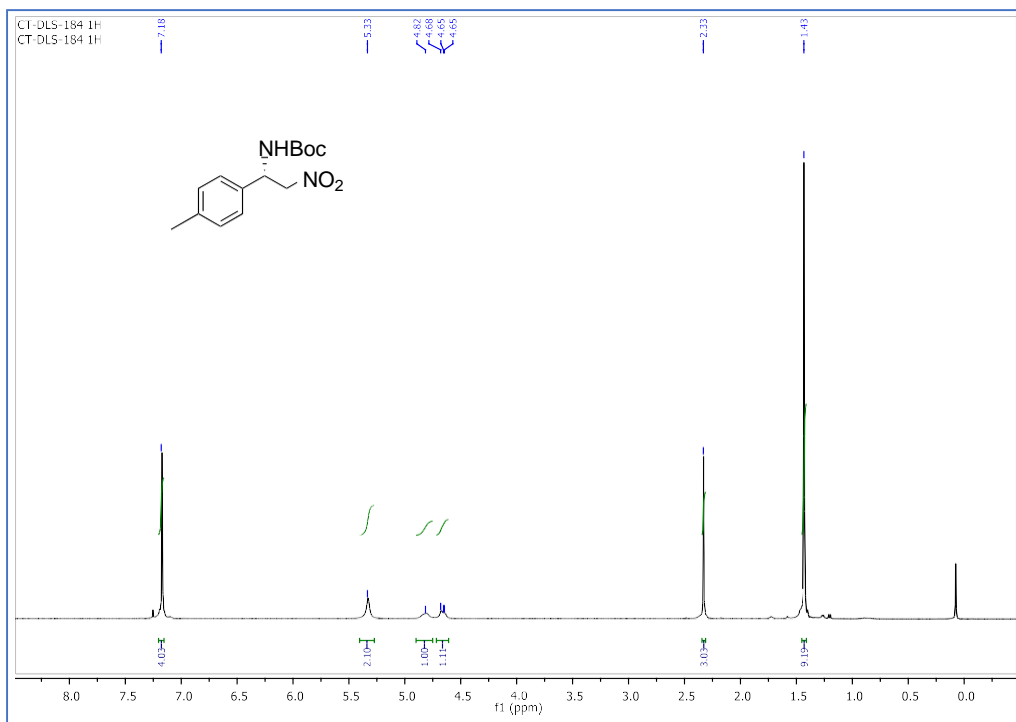


Figure 11. ¹H NMR spectrum of compound 2f

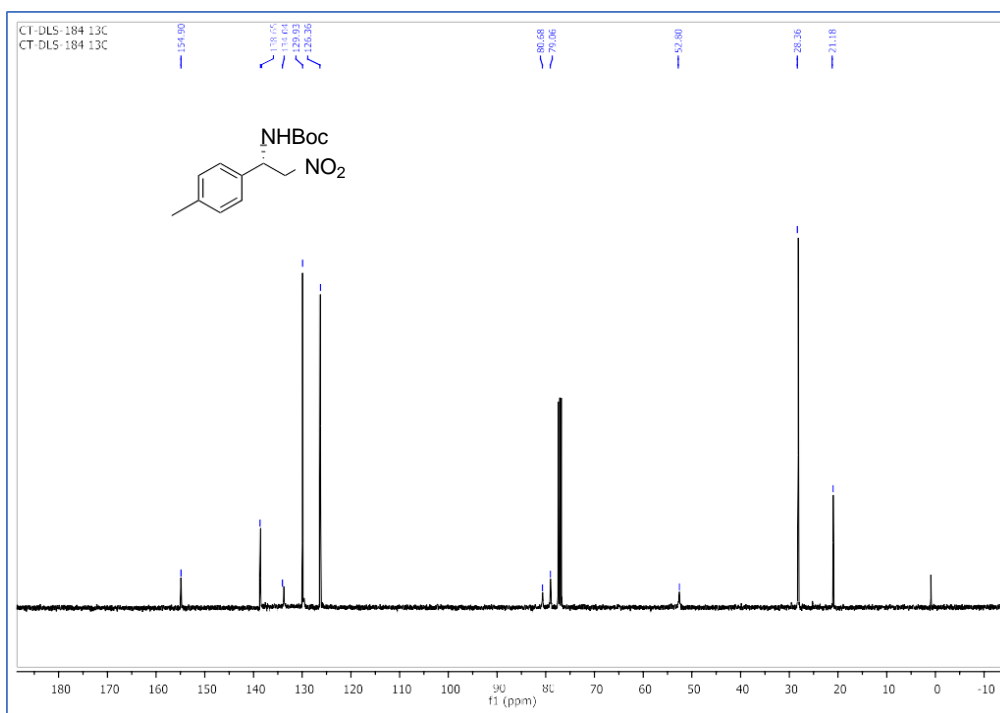


Figure 12. ¹³C NMR spectrum of compound 2f

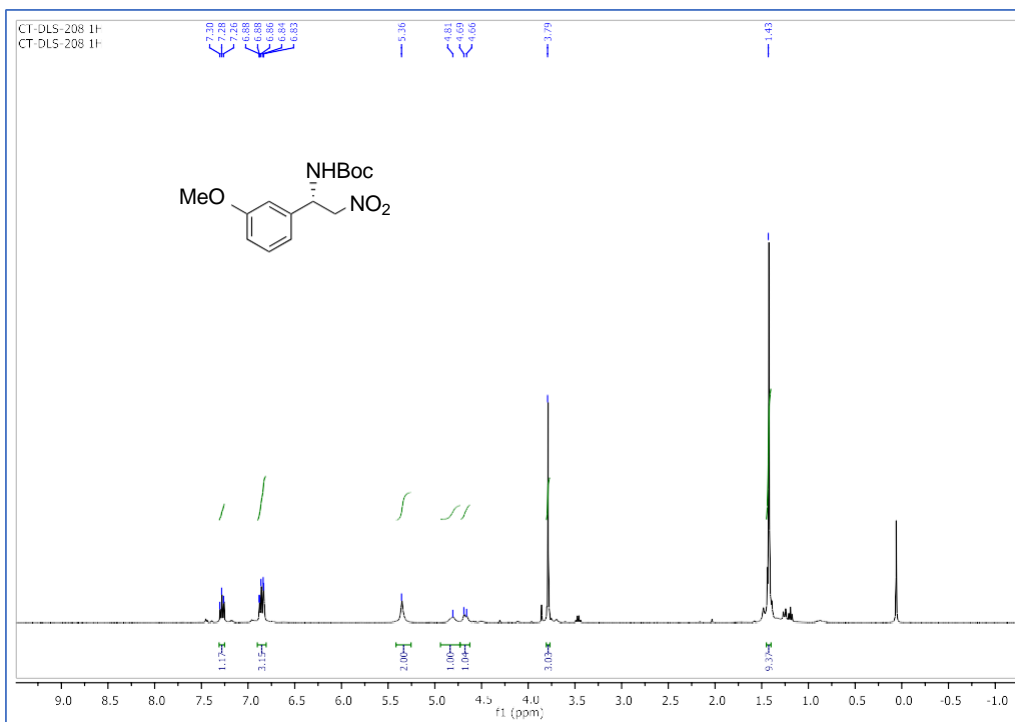


Figure 13. ¹H NMR spectrum of compound 2g

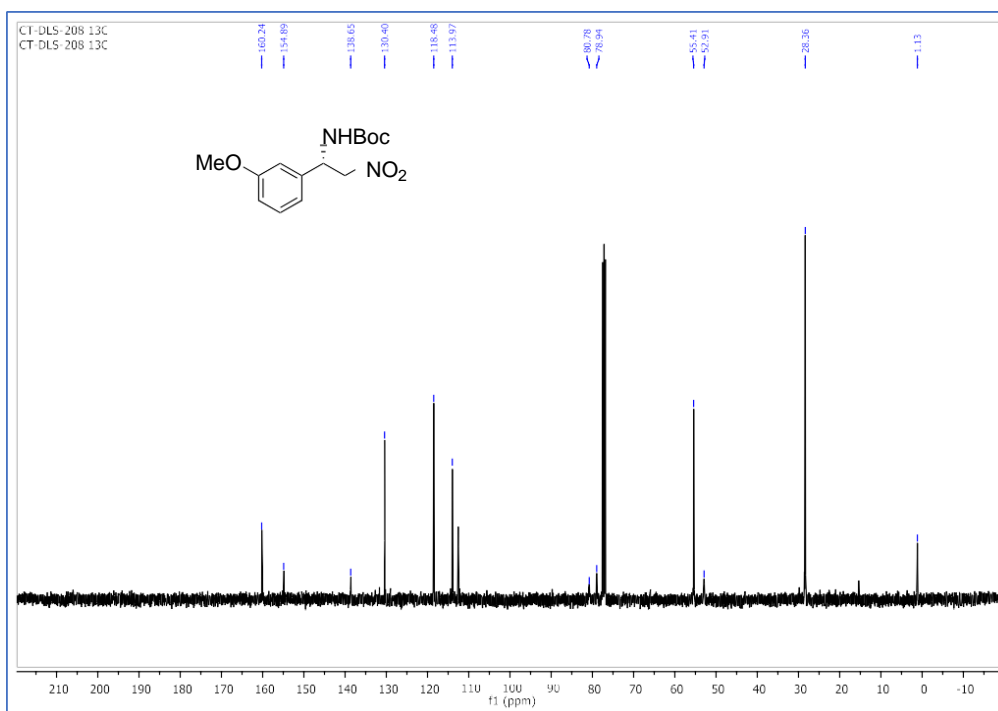


Figure 14. ¹³C NMR spectrum of compound 2g

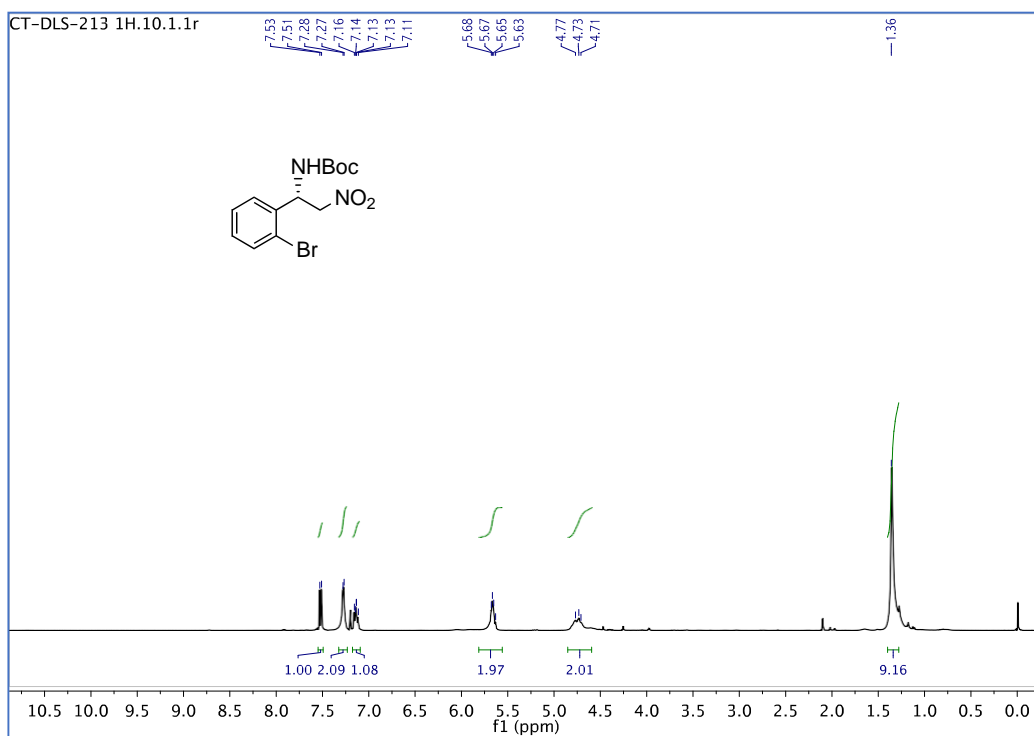


Figure 15. ^1H NMR spectrum of compound 2h

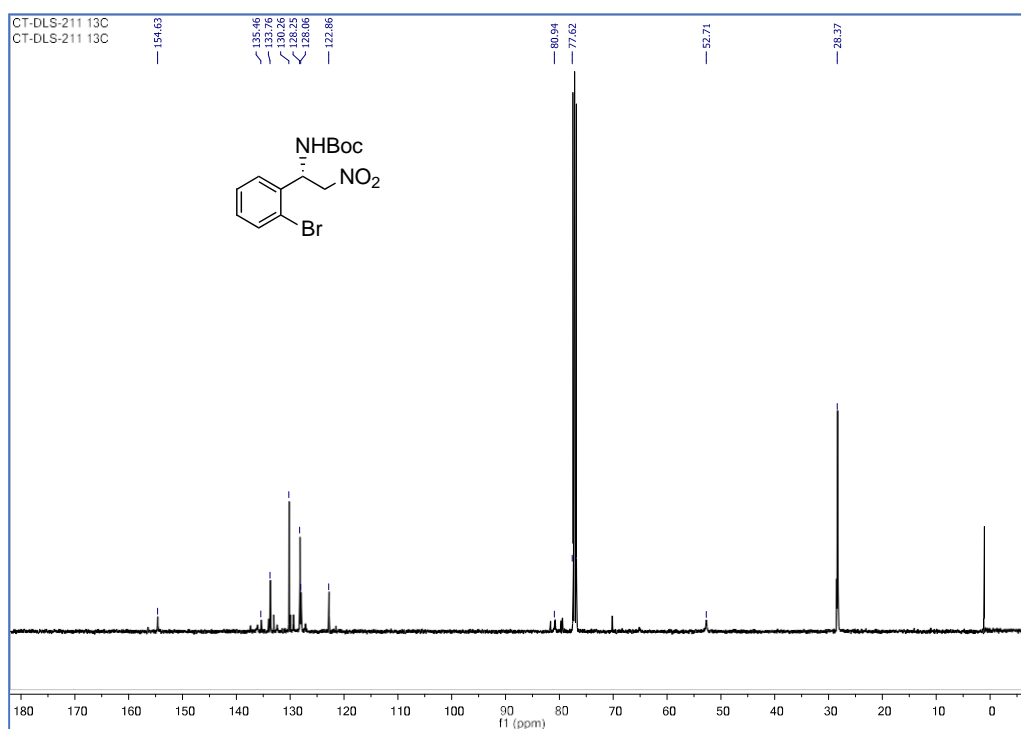


Figure 16. ^{13}C NMR spectrum of compound 2h

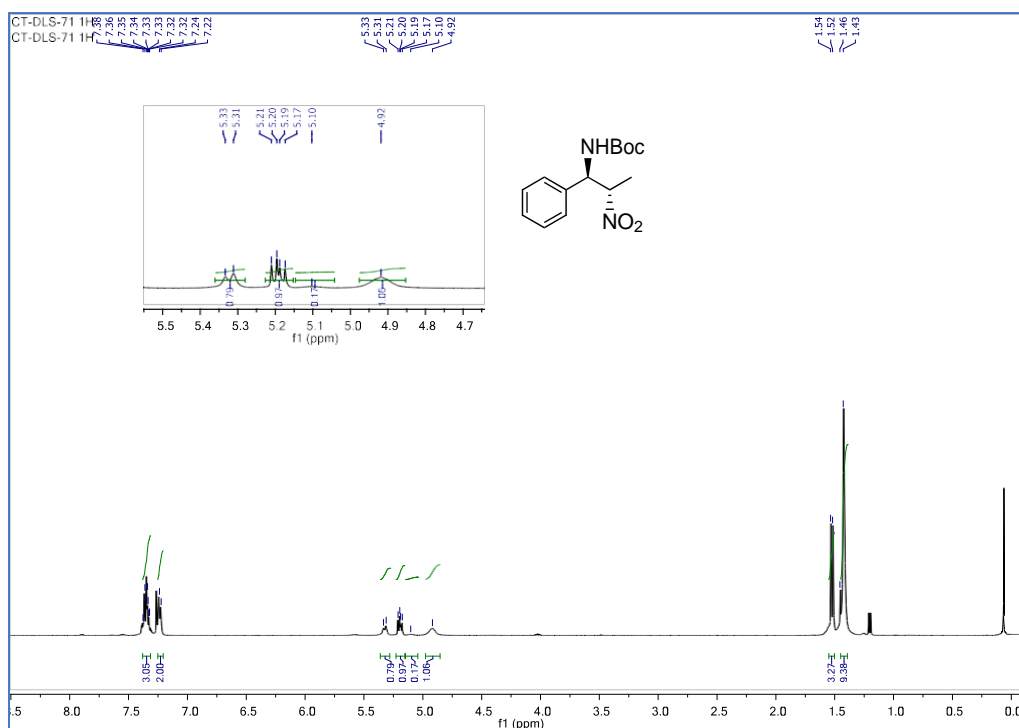


Figure 17. ¹H NMR spectrum of diastereomeric mixture 3a

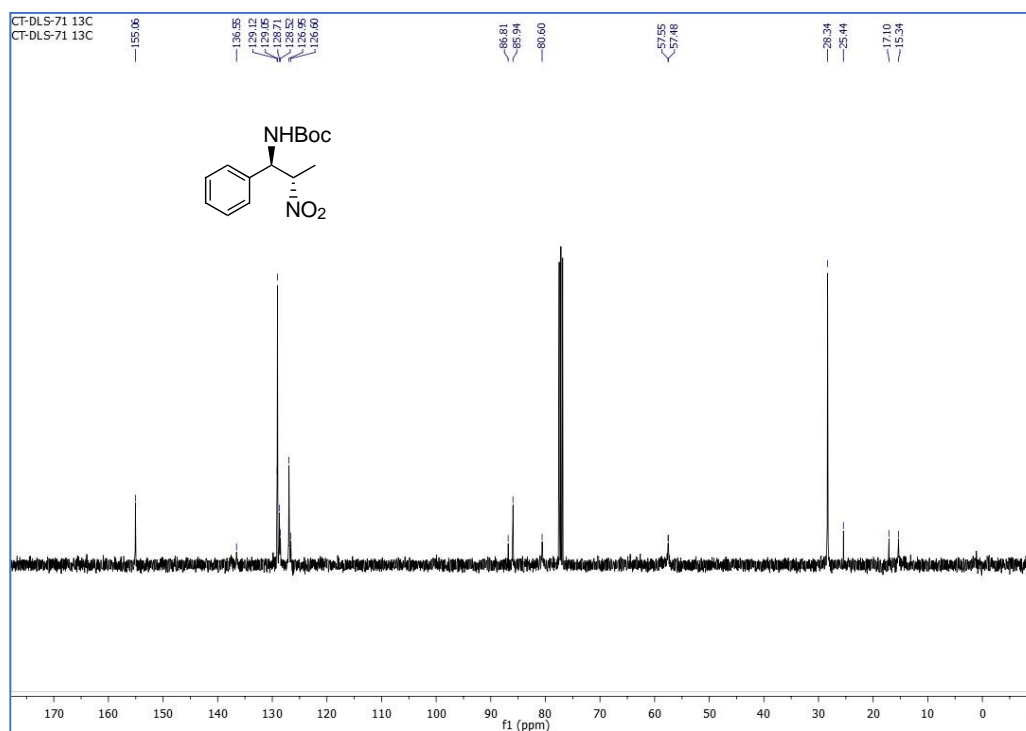


Figure 18. ¹³C NMR spectrum of diastereomeric mixture 3a

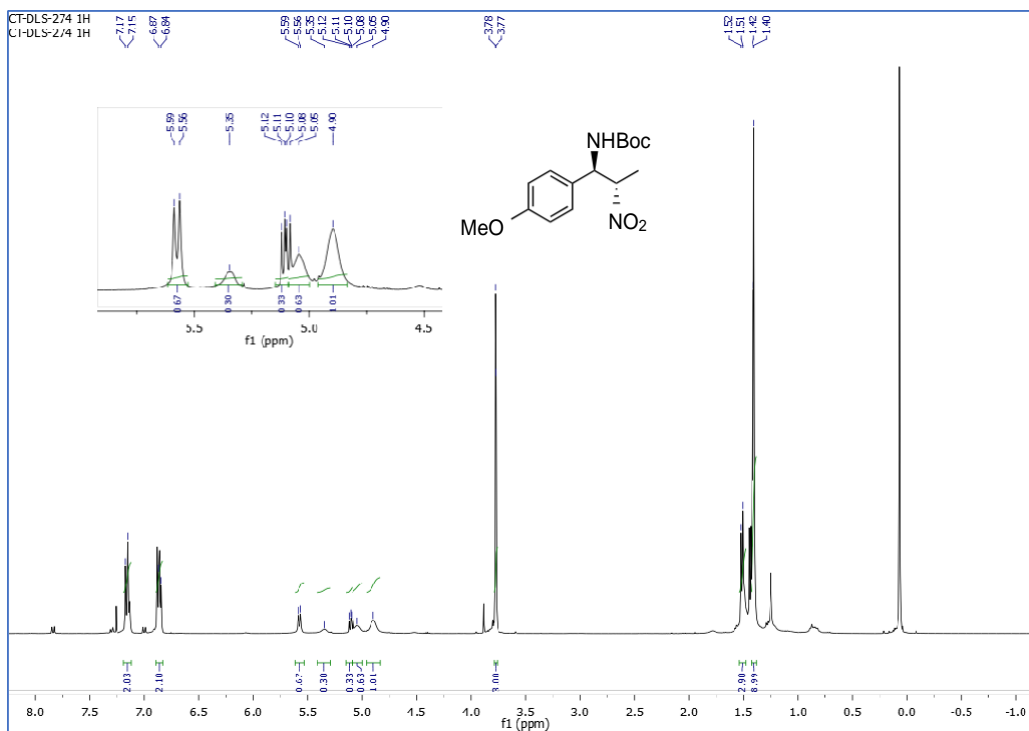


Figure 19. ¹H NMR spectrum of diastereomeric mixture **3b**

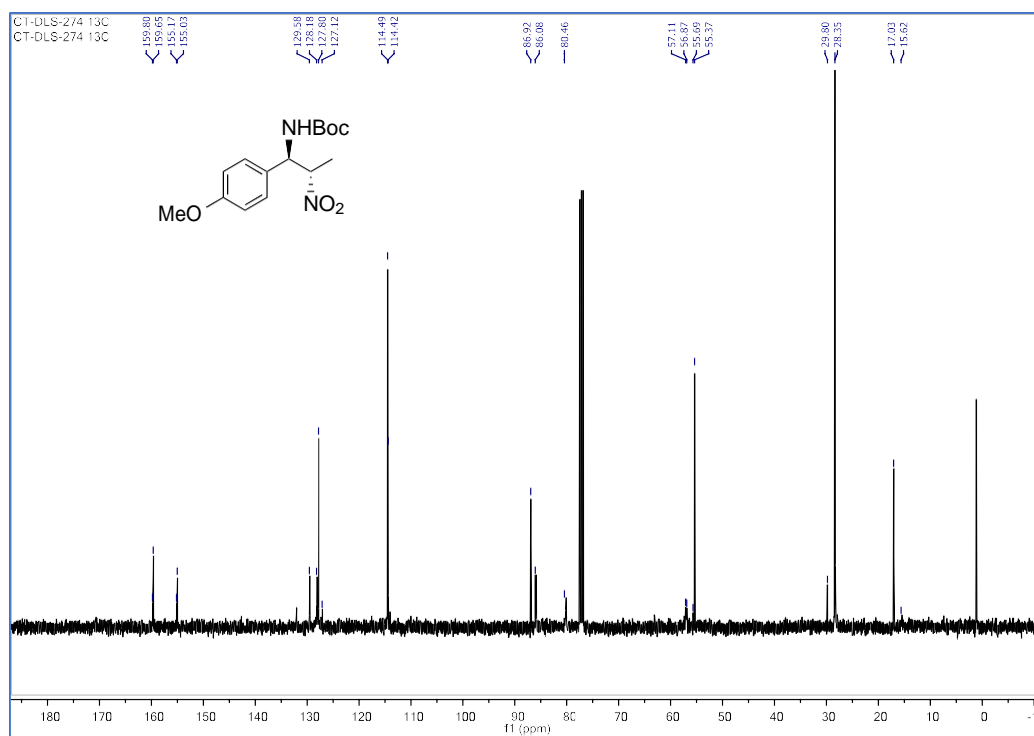


Figure 20. ¹³C NMR spectrum of diastereomeric mixture **3b**

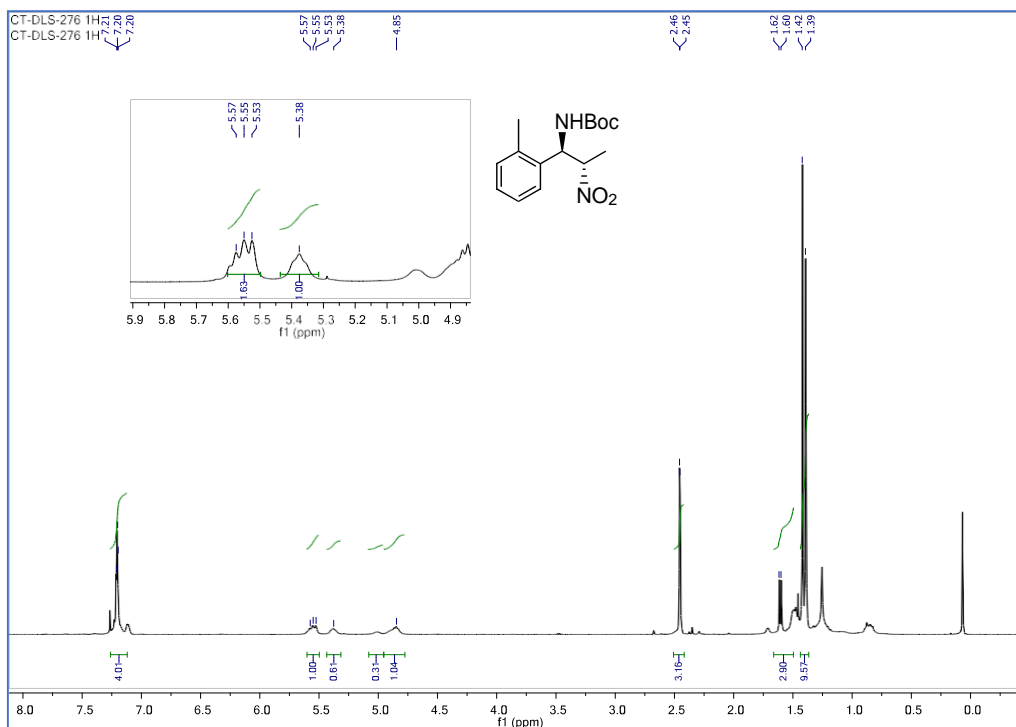


Figure 21. ¹H NMR spectrum of diastereomeric mixture **3c**

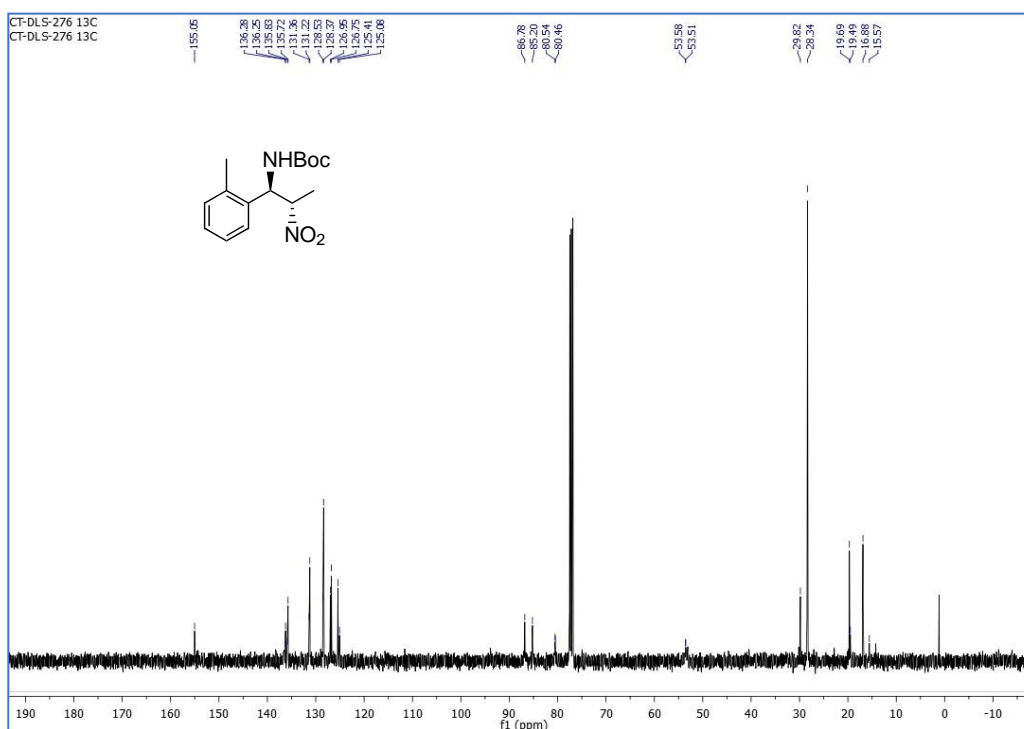


Figure 22. ¹³C NMR spectrum of diastereomeric mixture **3c**

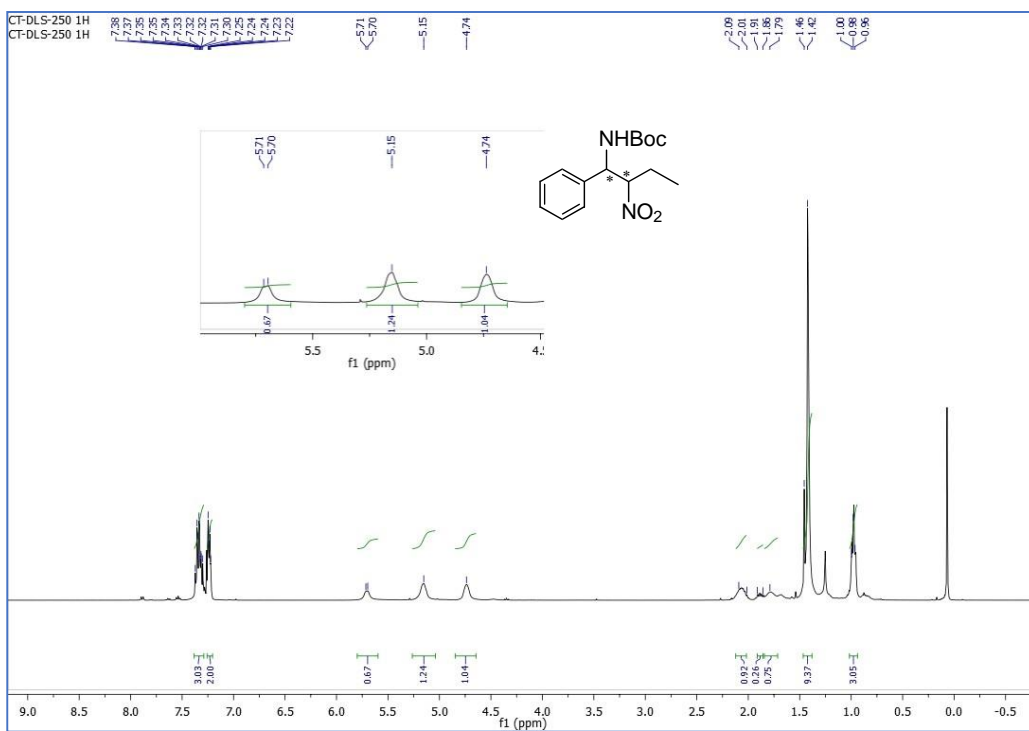


Figure 23. ¹H NMR spectrum of diastereomeric mixture **4a**

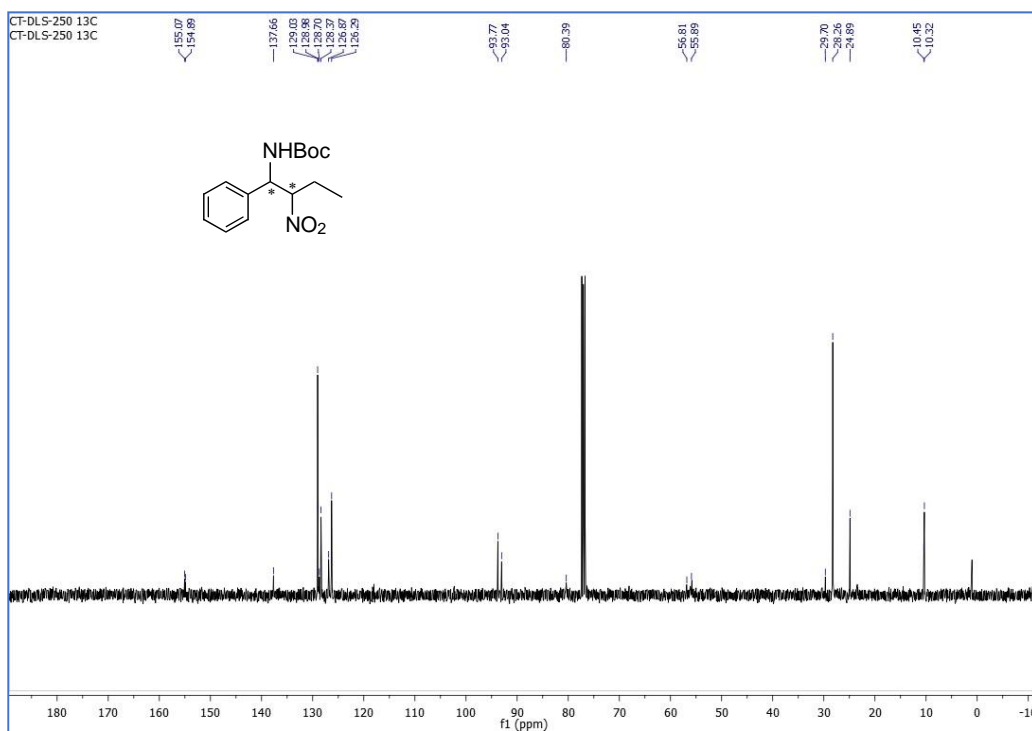


Figure 24. ¹³C NMR spectrum of diastereomeric mixture **4a**

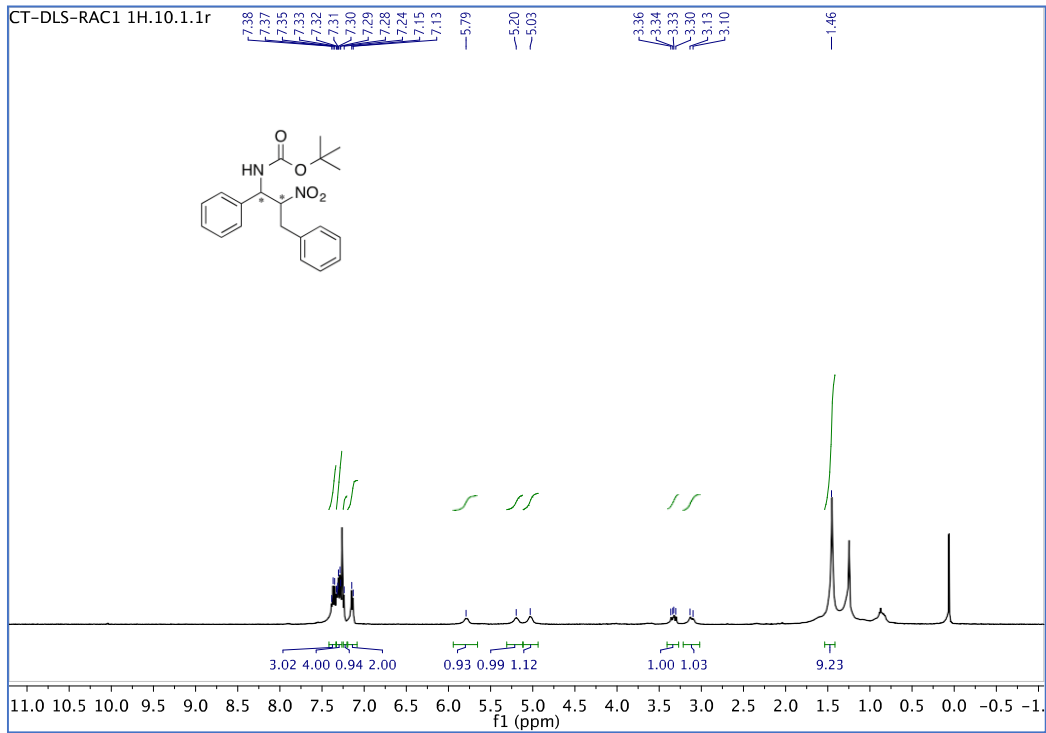


Figure 25. ^1H NMR spectrum of *anti* 5a

2. HPLC Chromatograms

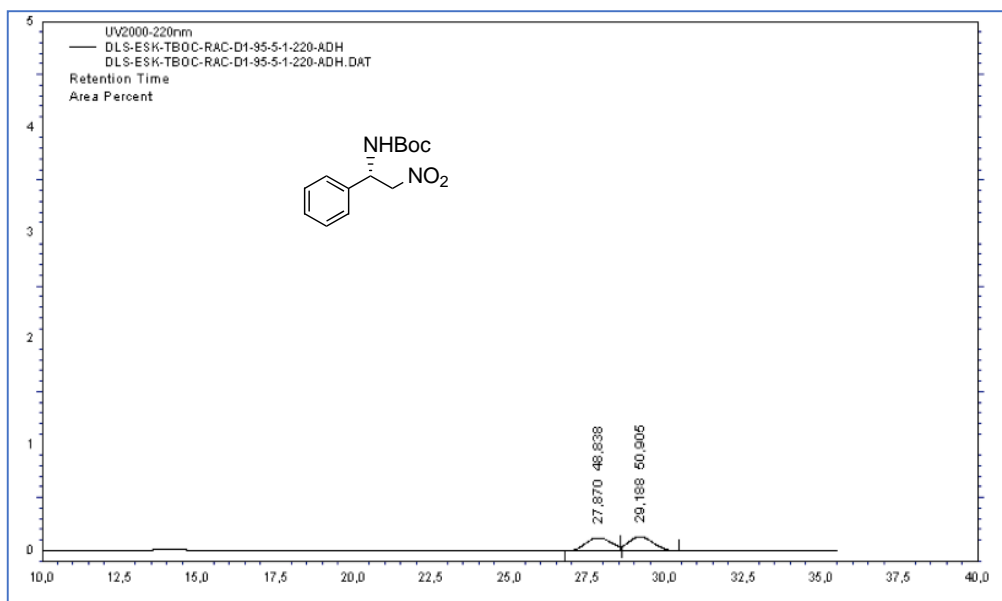


Figure 26. HPLC chromatogram of *rac*-2a

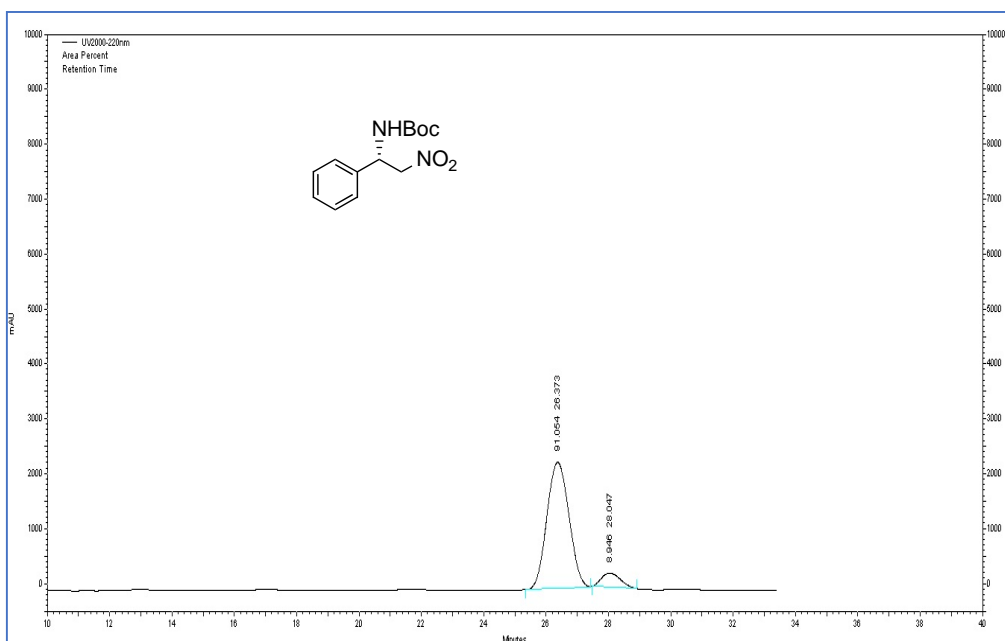


Figure 27. HPLC chromatogram of enantiomerically enriched 2a

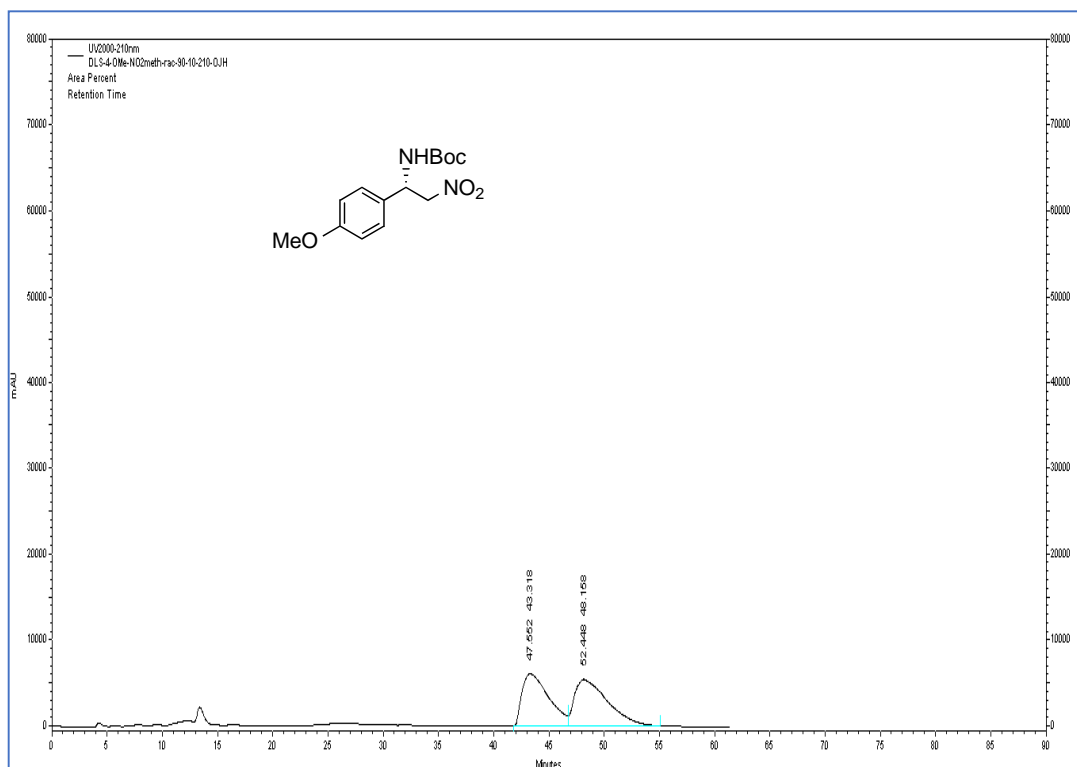


Figure 28. HPLC chromatogram of *rac*-2b

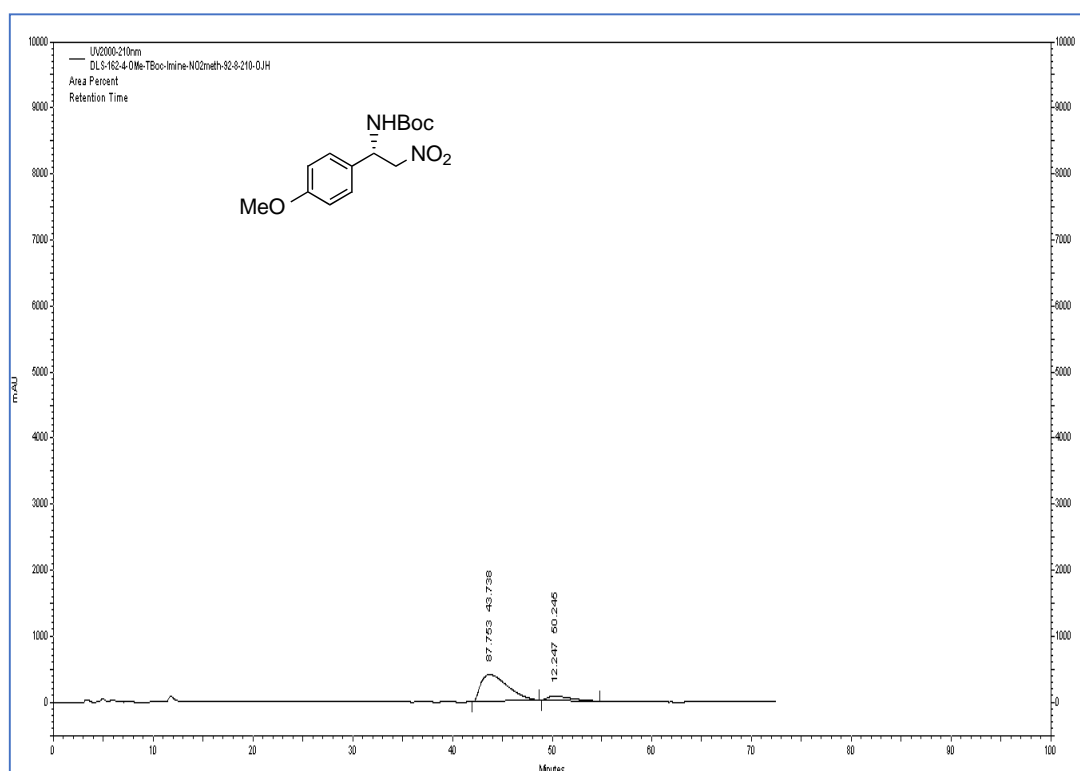


Figure 29. HPLC chromatogram of enantiomerically enriched 2b

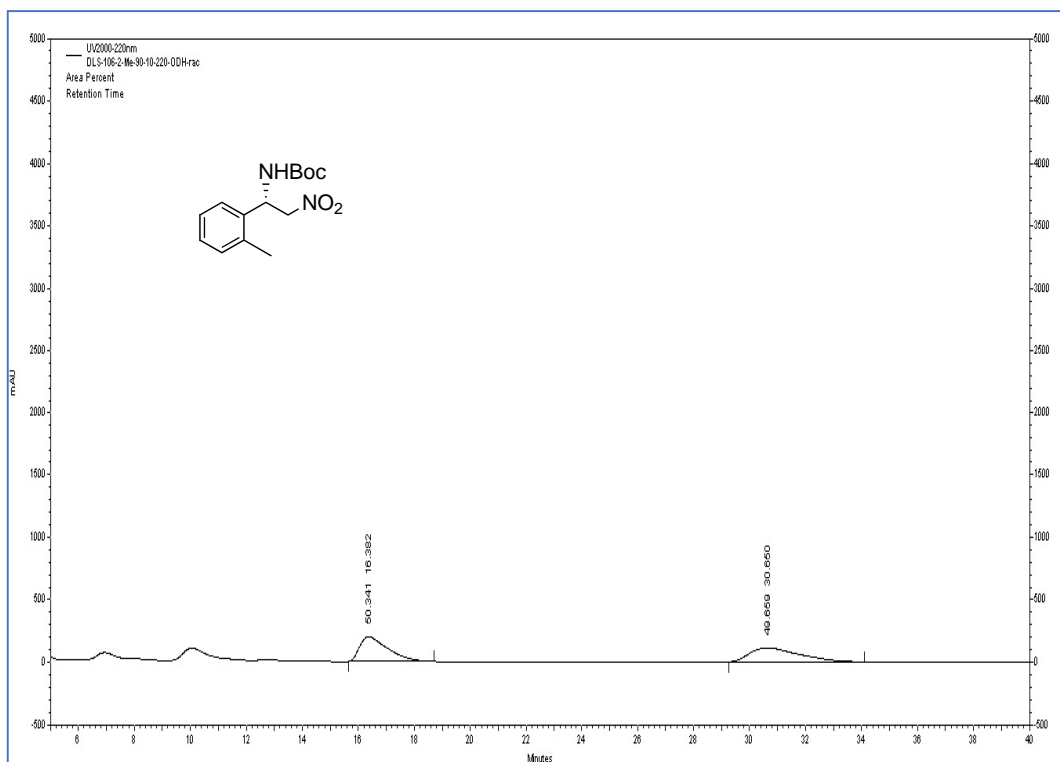


Figure 30. HPLC chromatogram of *rac*-2c

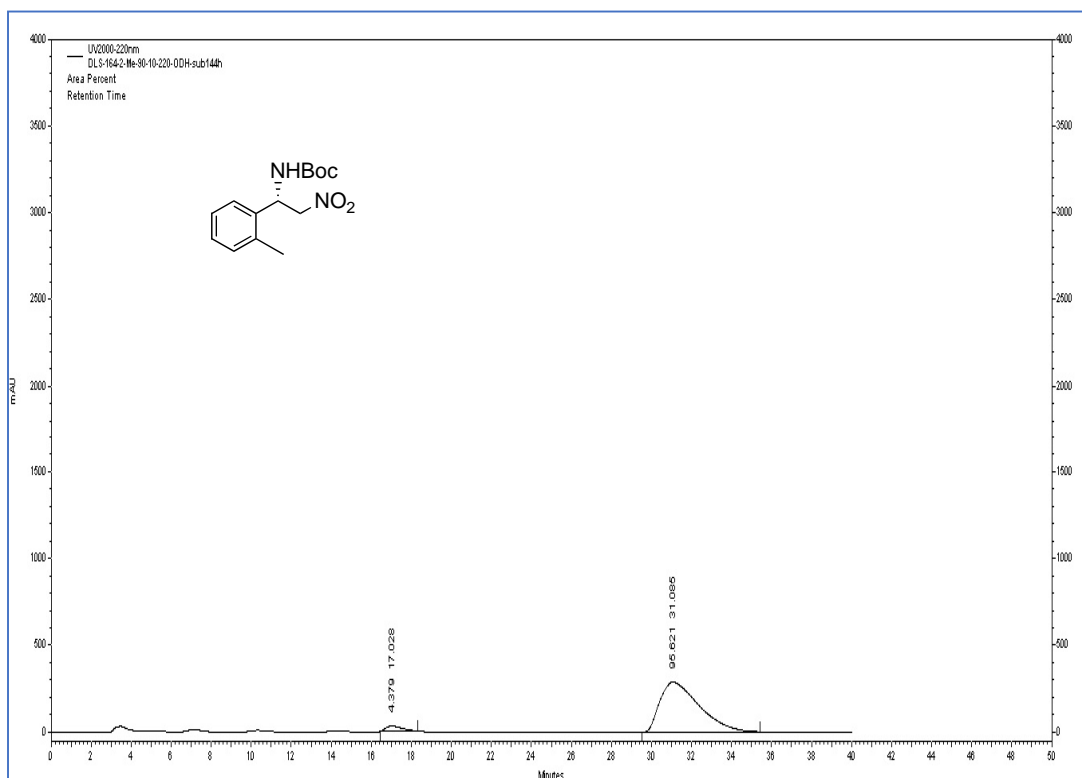


Figure 31. HPLC chromatogram of enantiomerically enriched 2c

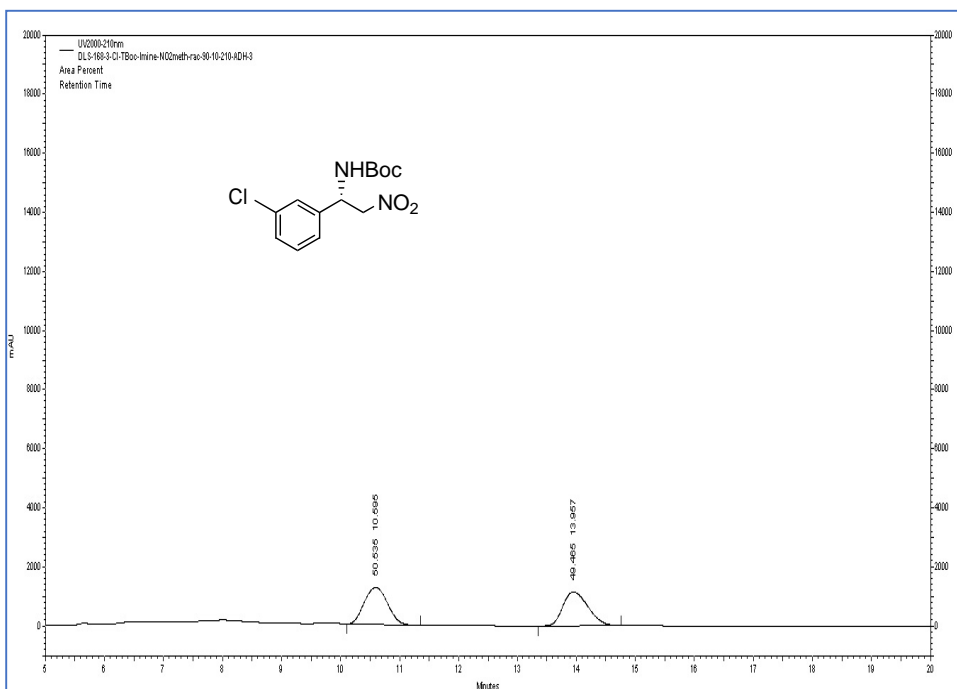


Figure 32. HPLC chromatogram of *rac-2d*

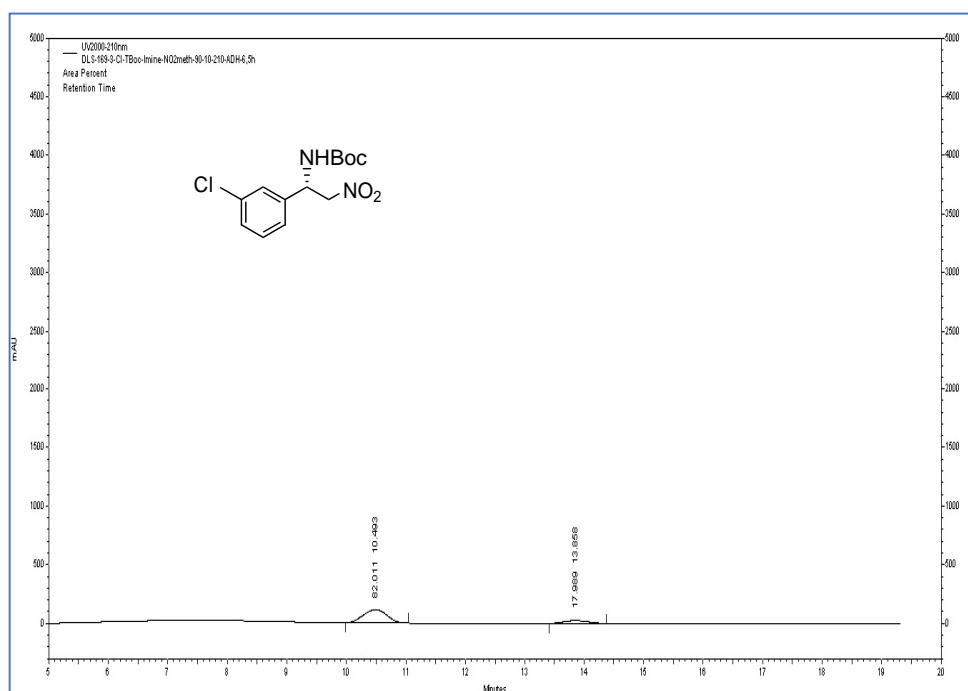


Figure 33. HPLC chromatogram of enantiomerically enriched **2d**

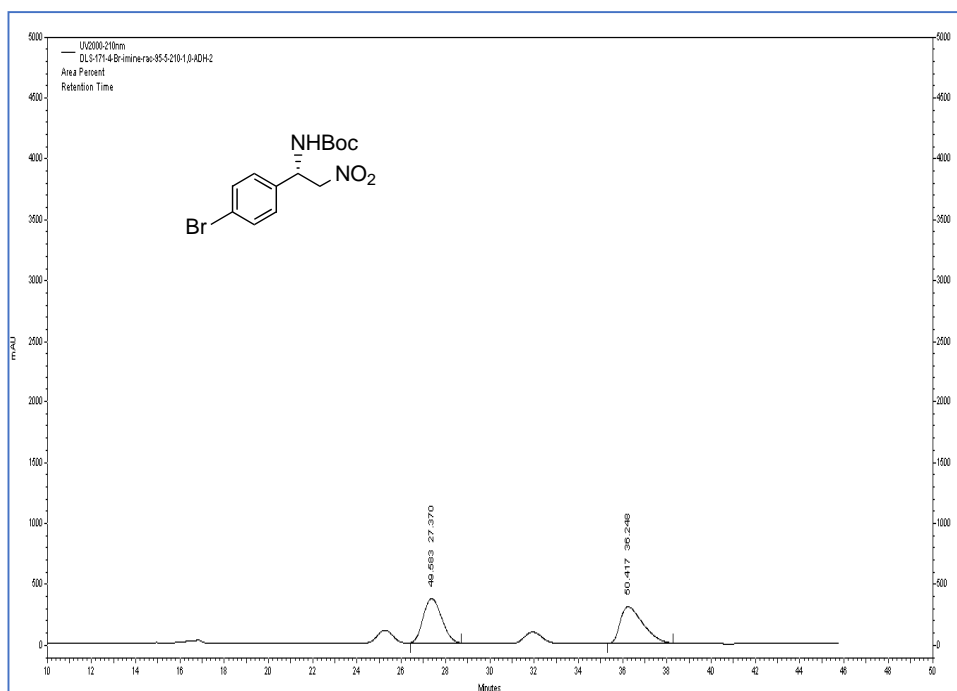


Figure 34. HPLC chromatogram of *rac*-2e

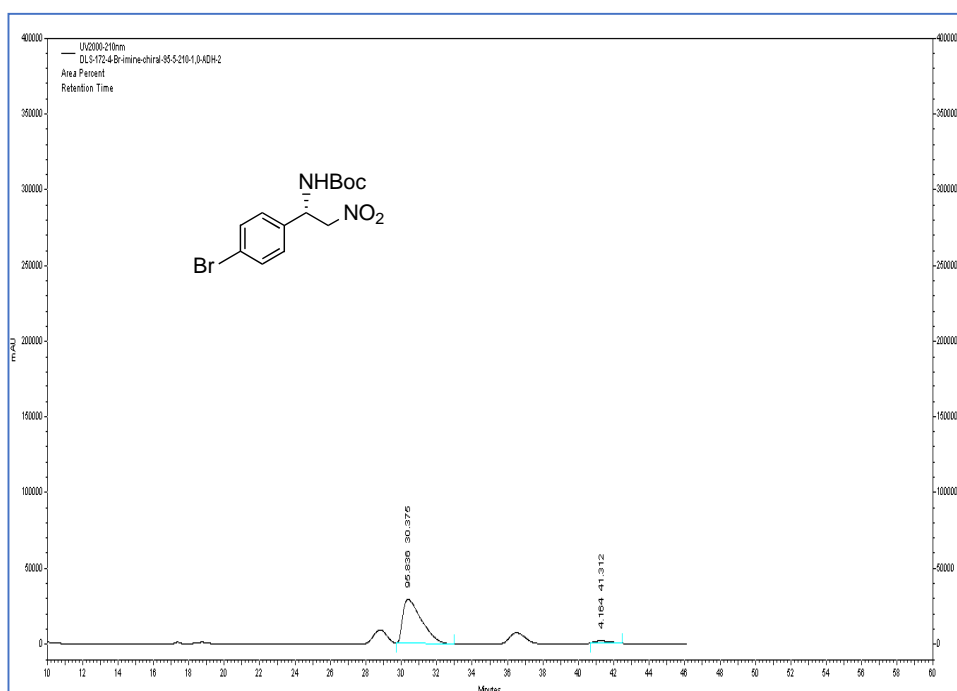


Figure 35. HPLC chromatogram of enantiomerically enriched 2e

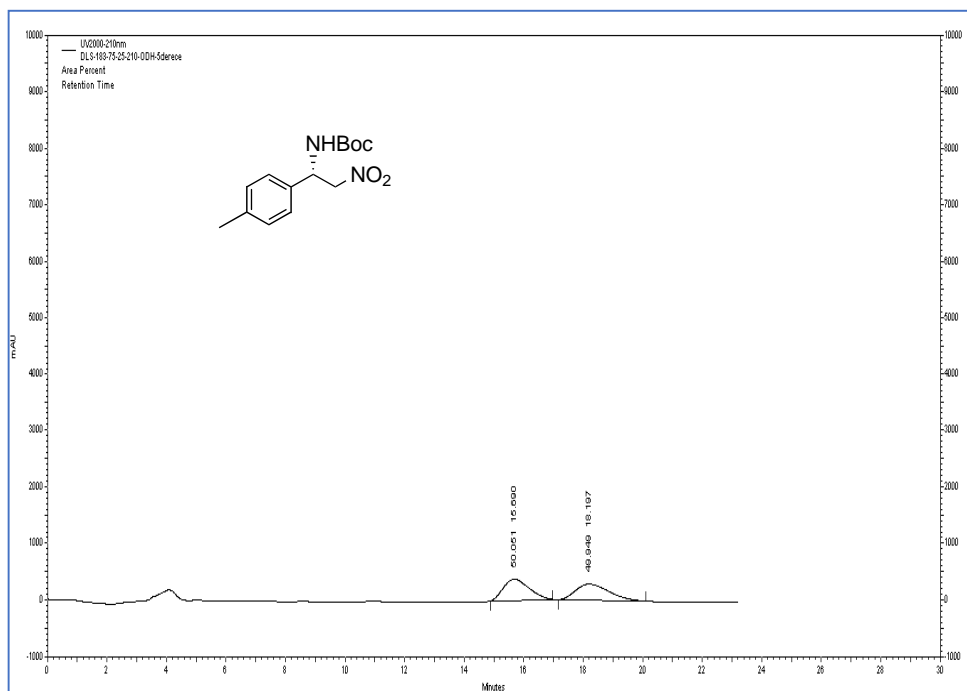


Figure 36. HPLC chromatogram of *rac-2f*

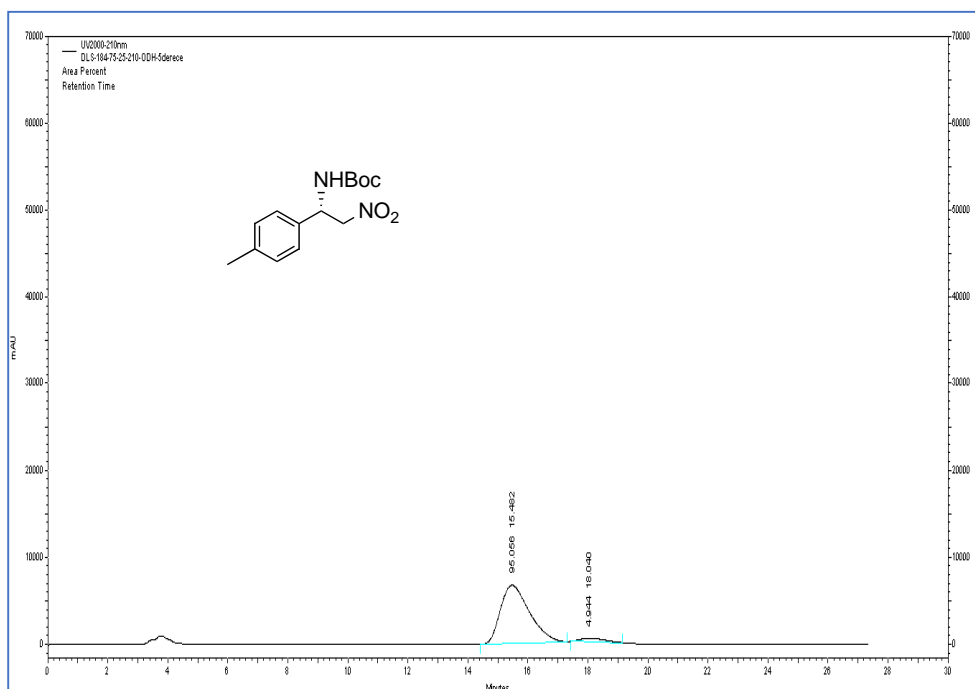


Figure 37. HPLC chromatogram of enantiomerically enriched **2f**

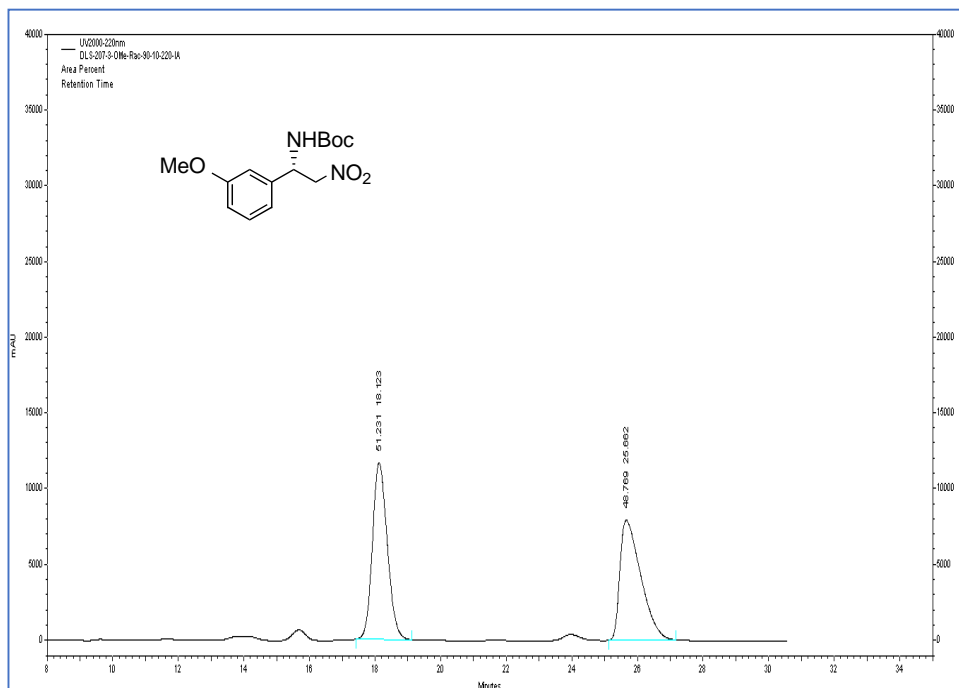


Figure 38. HPLC chromatogram of *rac-2g*

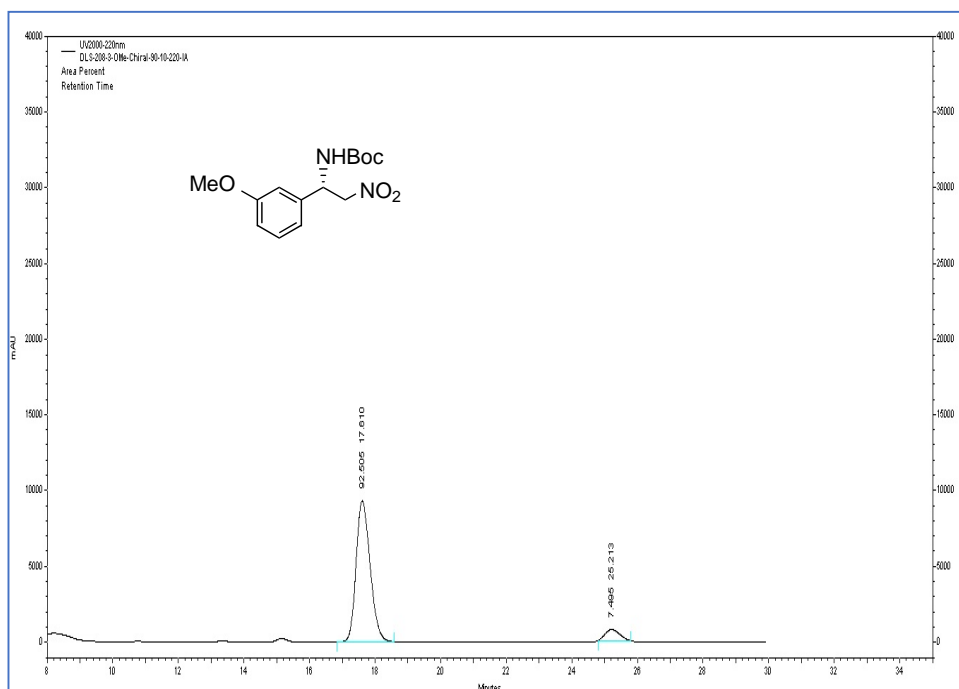


Figure 39. HPLC chromatogram of enantiomerically enriched **2g**

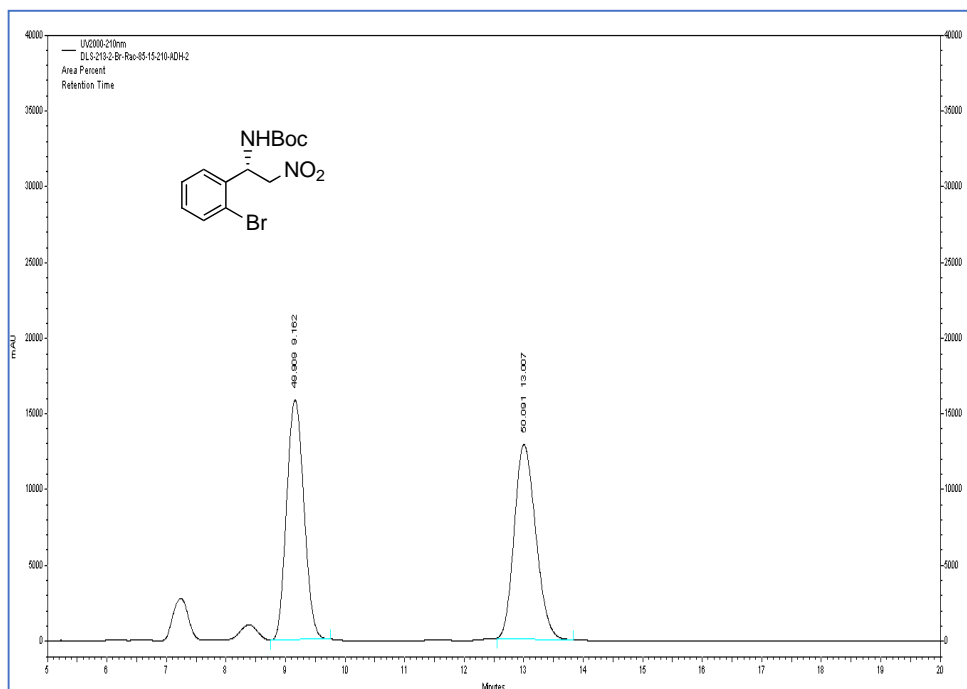


Figure 40. HPLC chromatogram of *rac*-2h

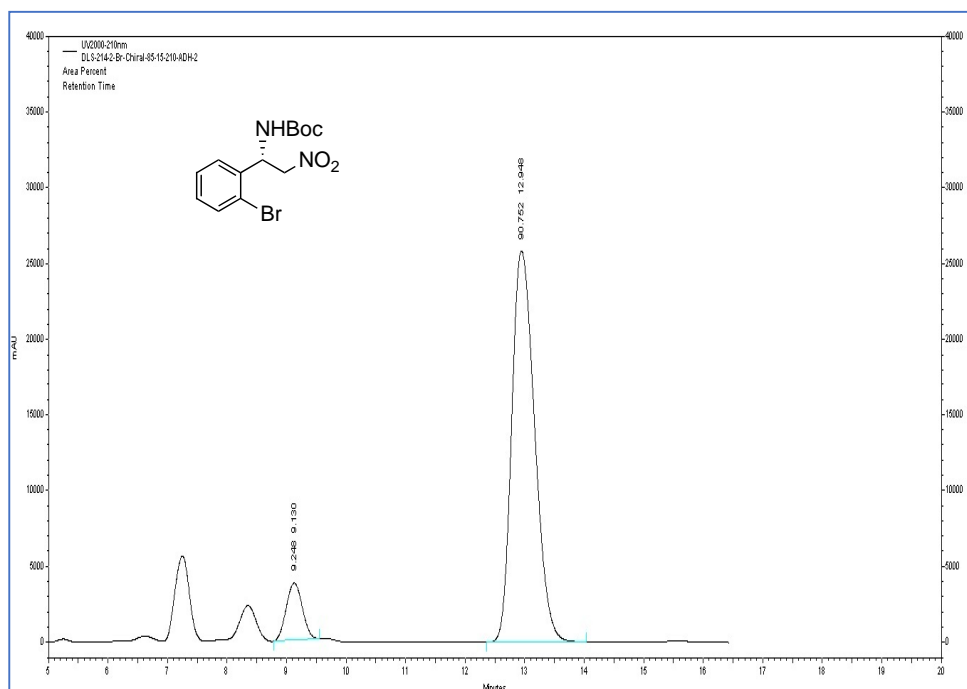


Figure 41. HPLC chromatogram of enantiomerically enriched 2h

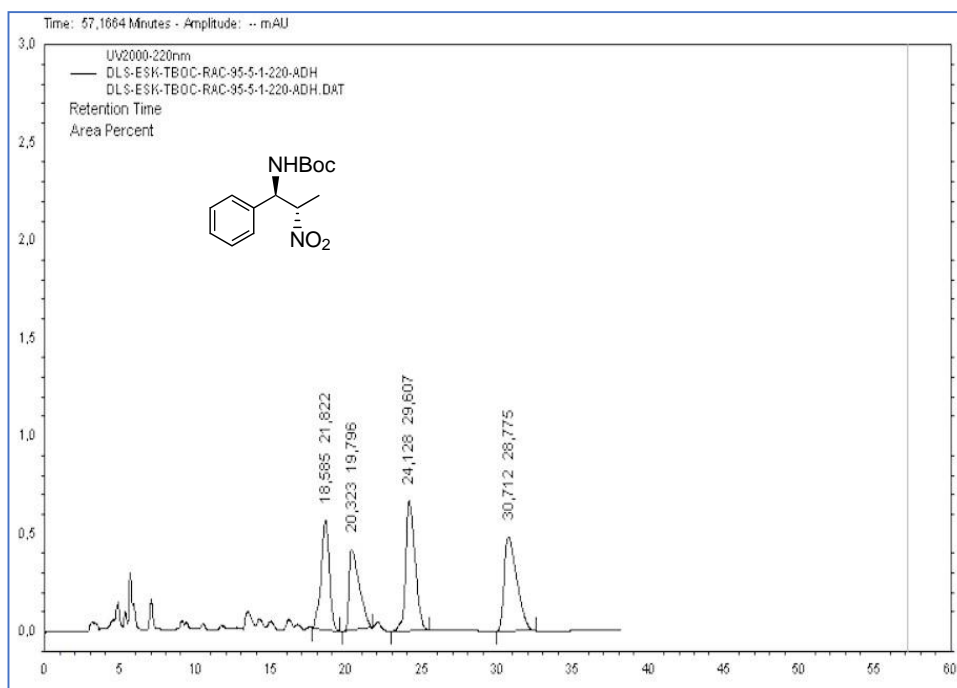


Figure 42. HPLC chromatogram of diastereomeric mixture of *rac*-**3a**

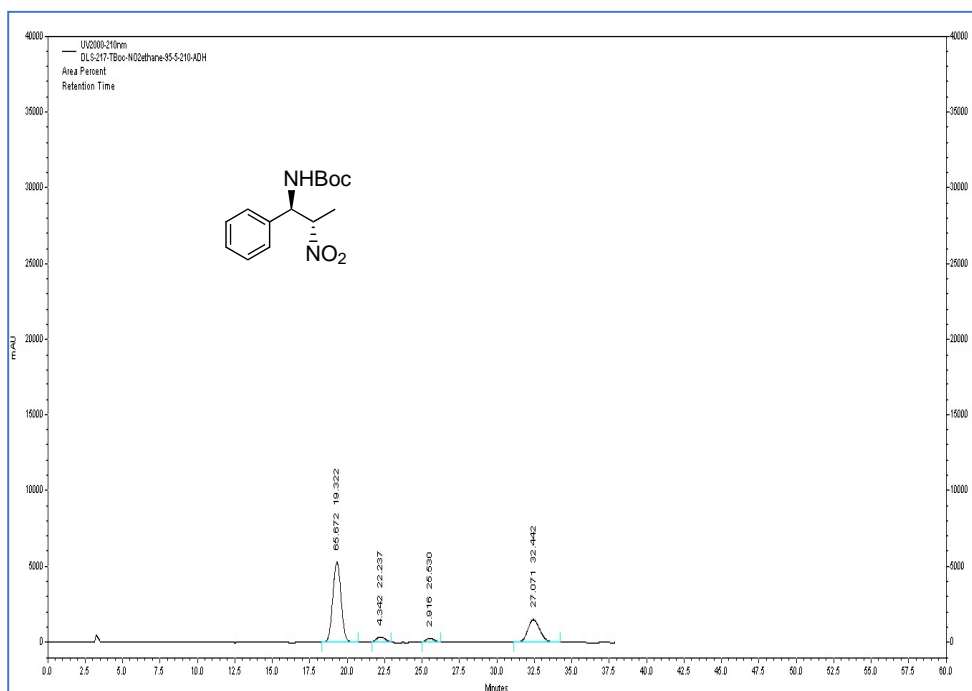


Figure 43. HPLC chromatogram of enantiomerically enriched **3a**

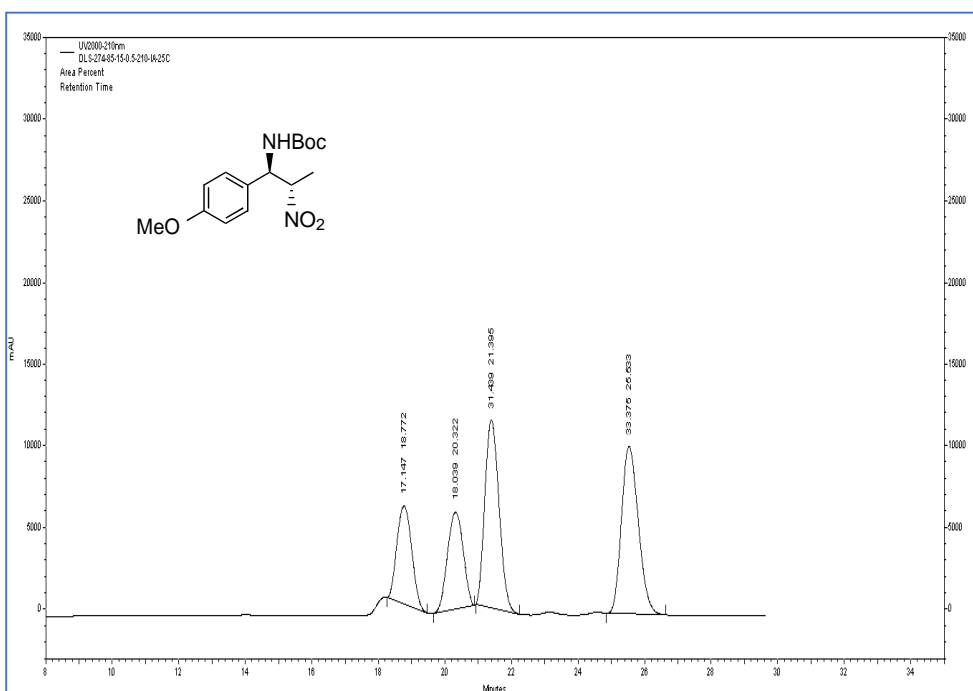


Figure 44. HPLC chromatogram of diastereomeric mixture of *rac*-**3b**

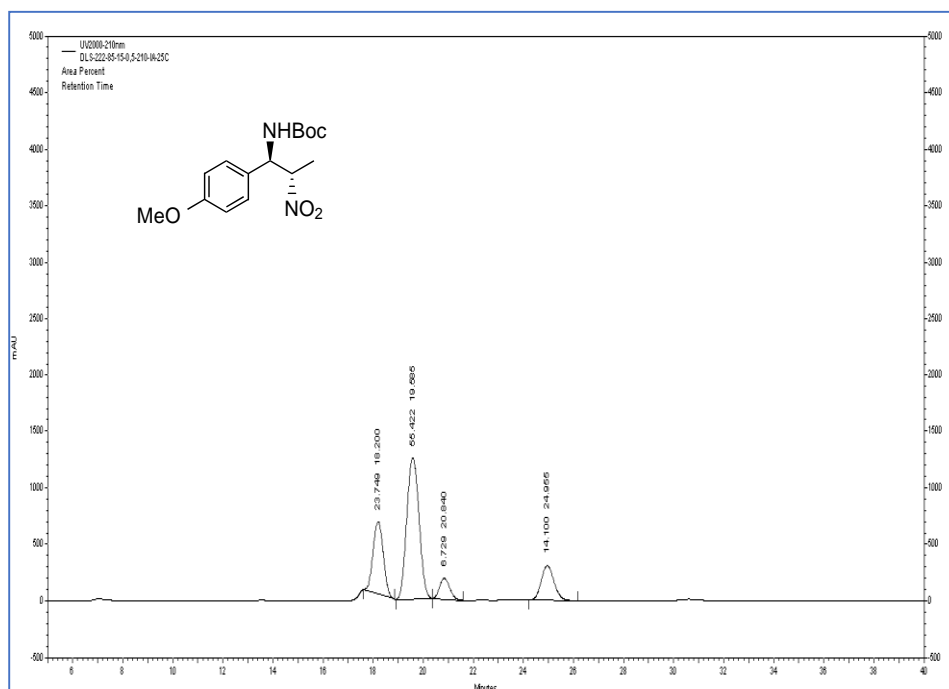


Figure 45. HPLC chromatogram of enantiomerically enriched **3b**

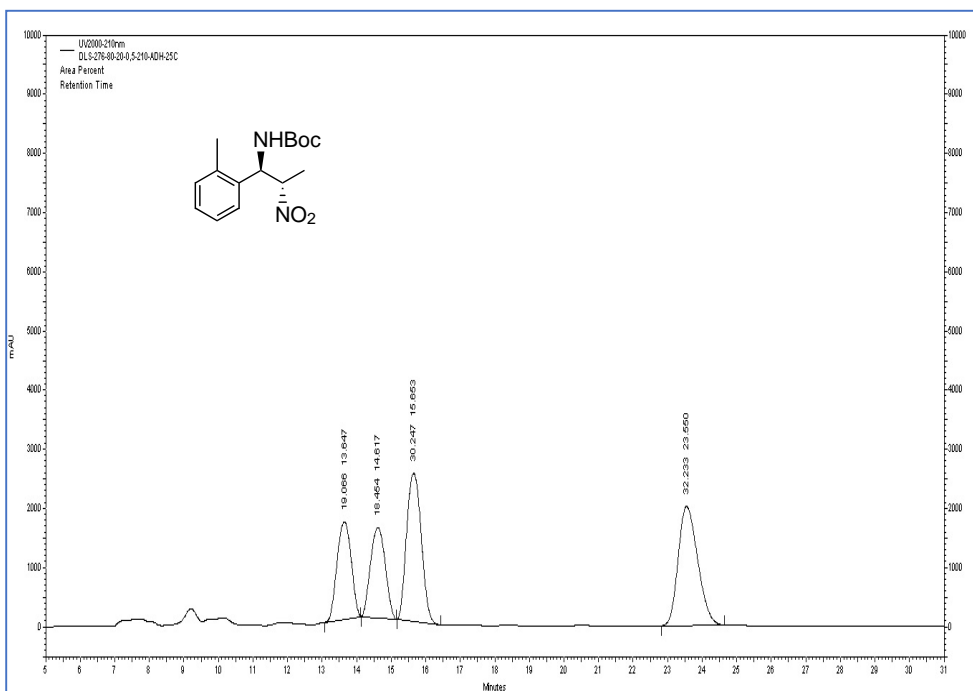


Figure 46. HPLC chromatogram of *rac*-3c

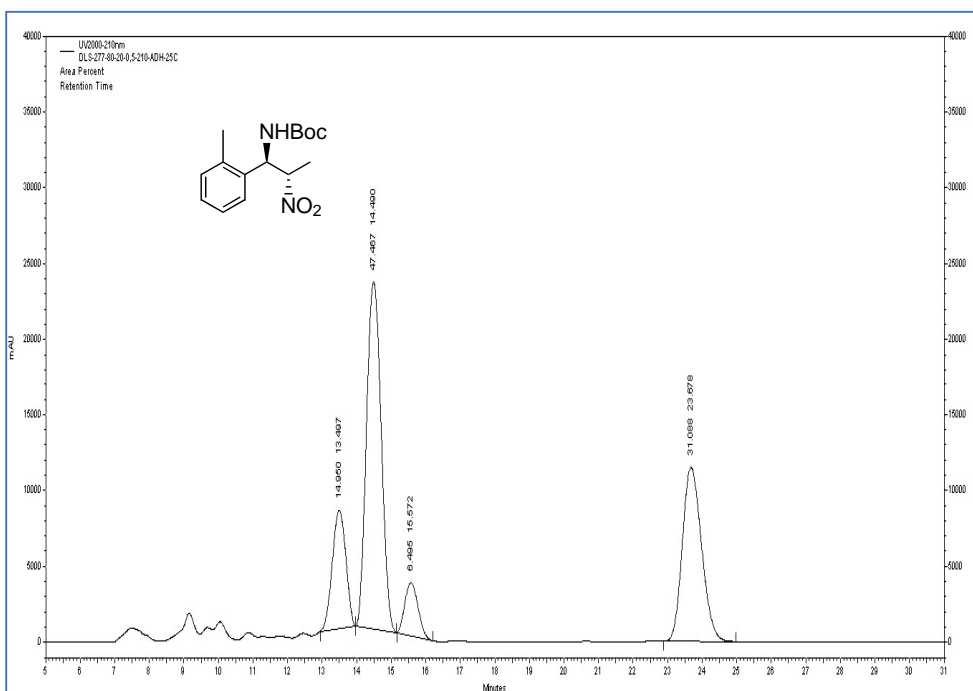


Figure 47. HPLC chromatogram of enantiomerically enriched 3c

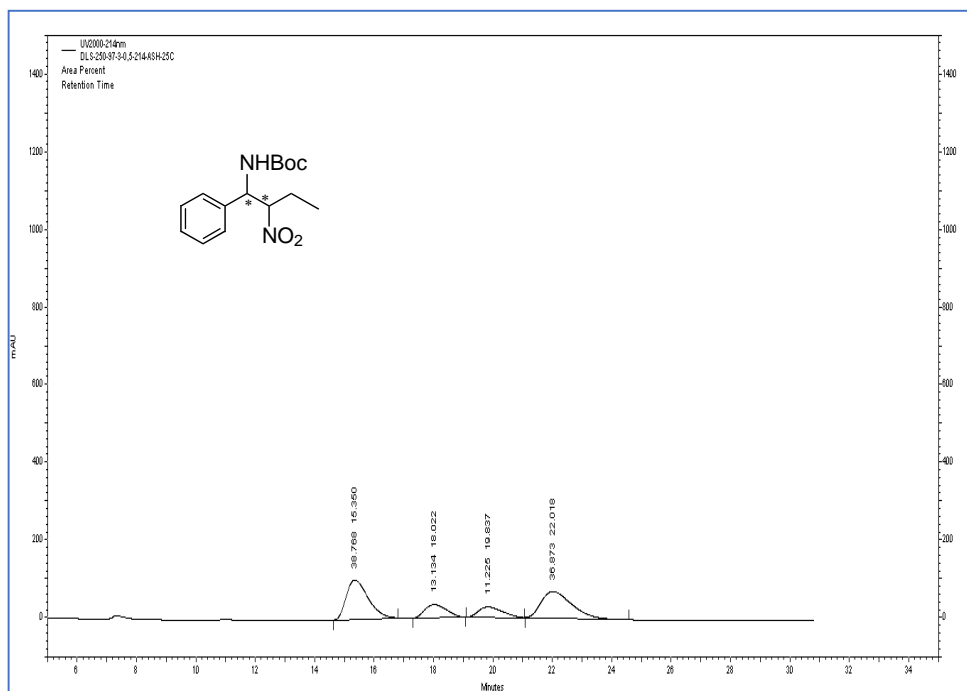


Figure 48. HPLC chromatogram of *rac*-4a

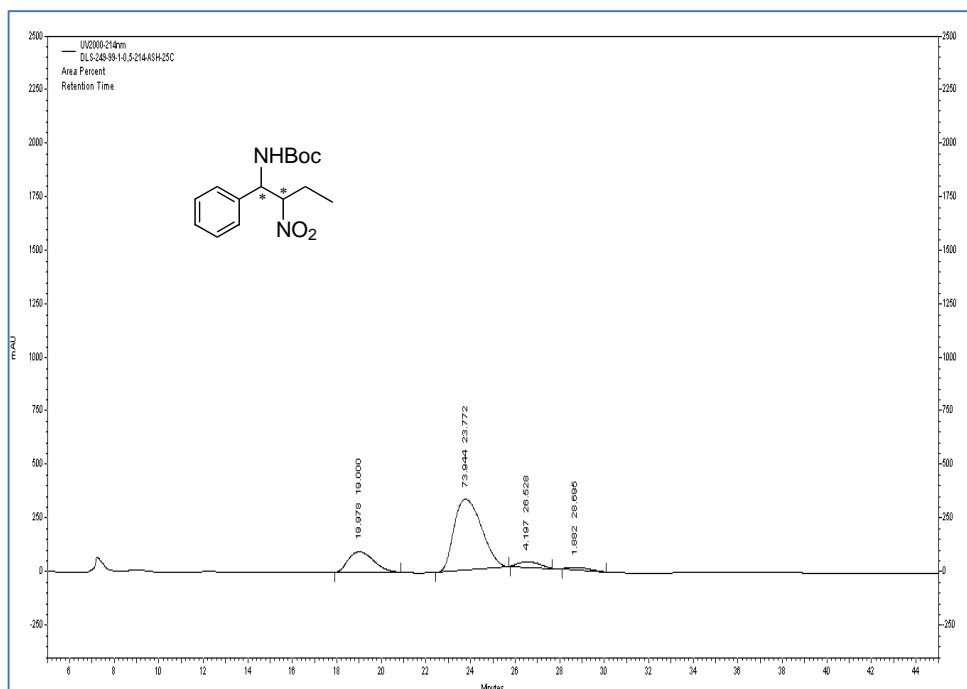


Figure 49. HPLC chromatogram of enantiomerically enriched 4a

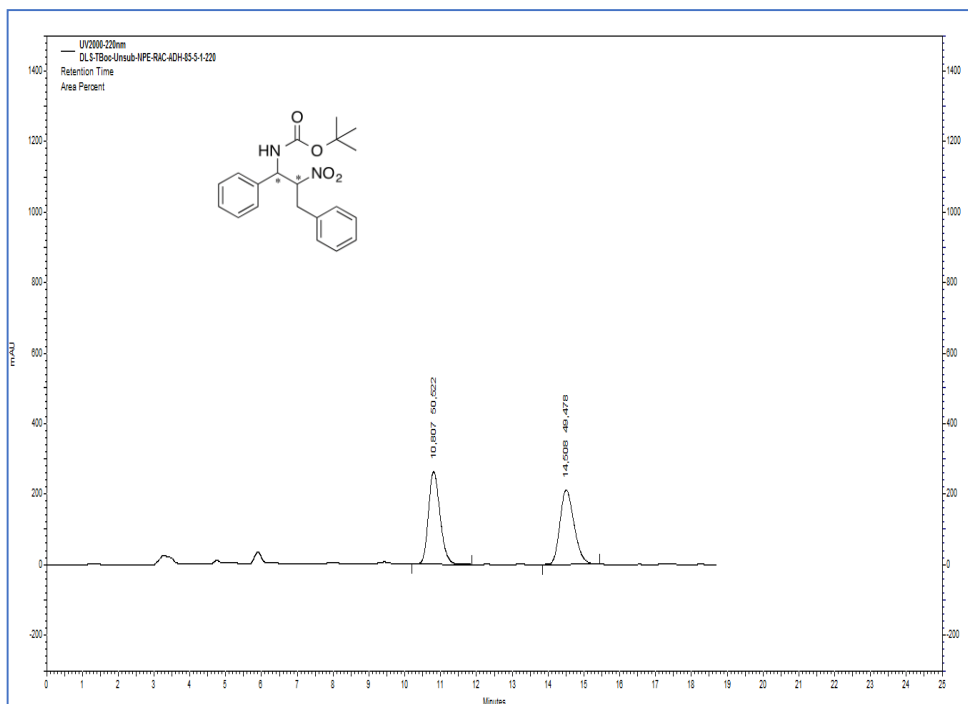


Figure 50. HPLC chromatogram of *rac-anti-5a*

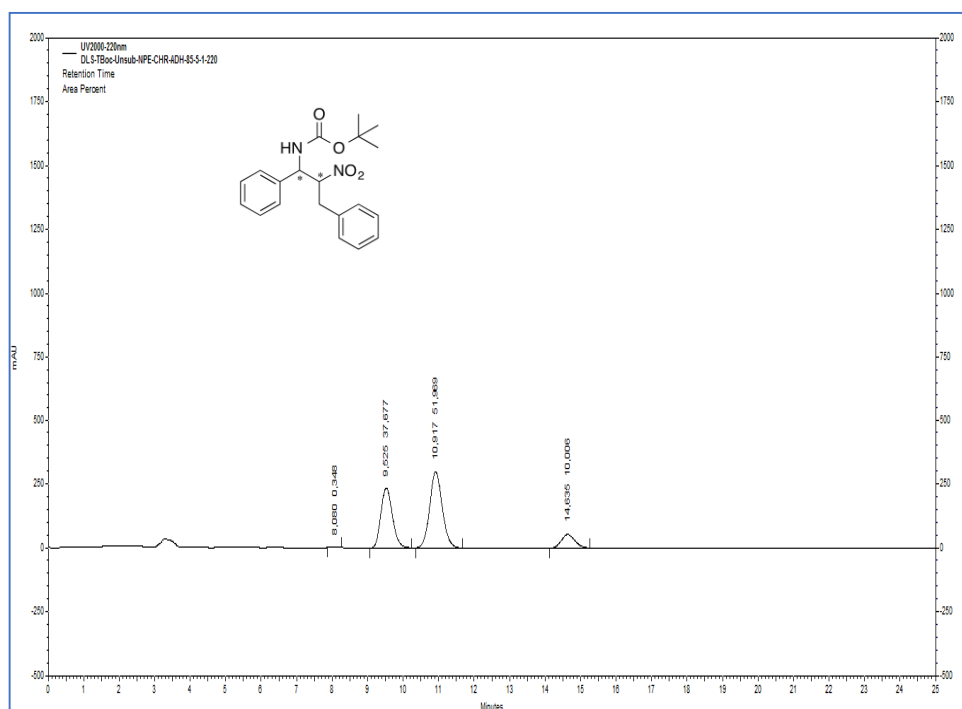


Figure 51. HPLC chromatogram of enantiomerically enriched **5a**