

Supplementary Material

Reaction of trihaloisocyanuric acids with alkynes: an efficient methodology for the preparation of β -haloenol acetates

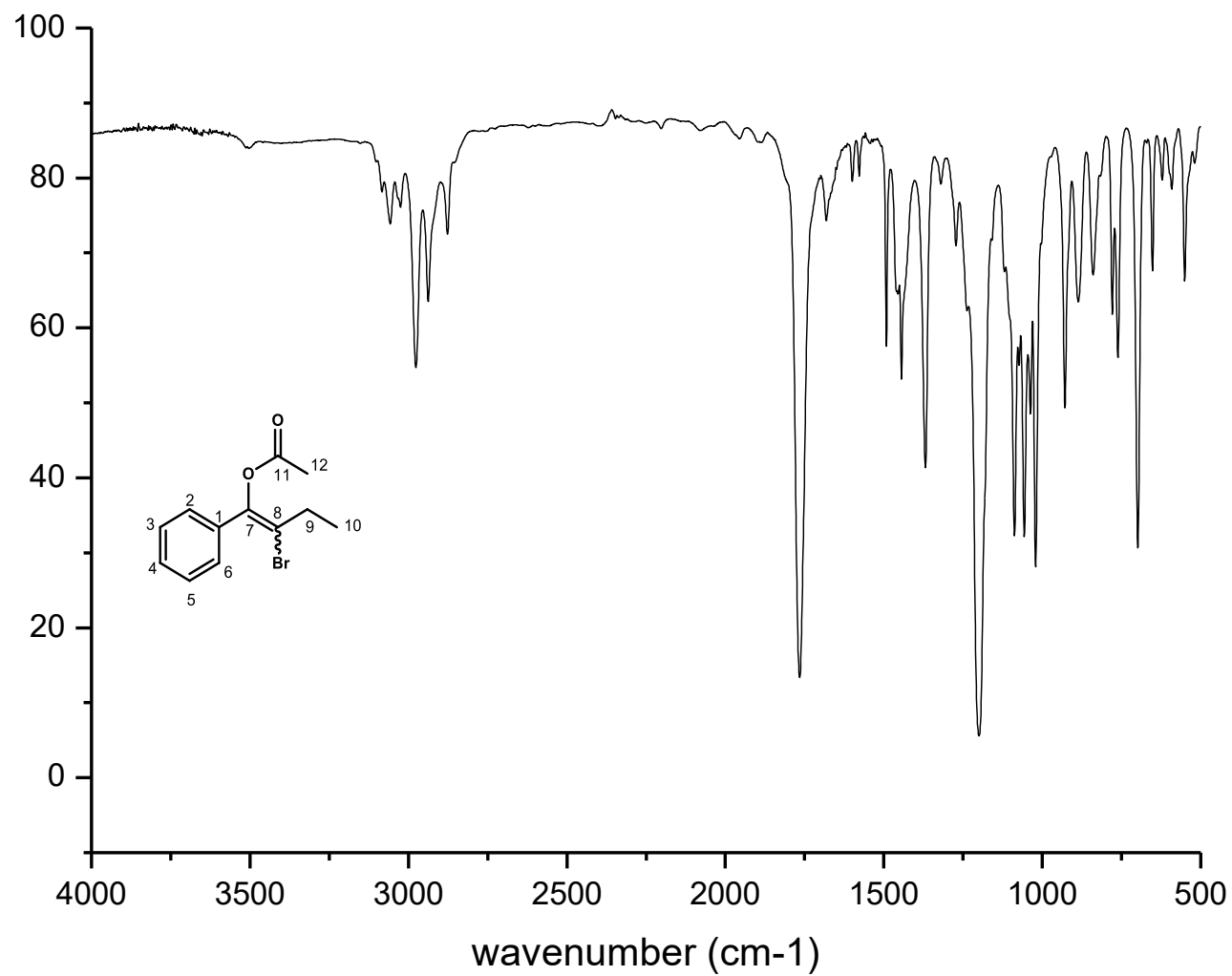
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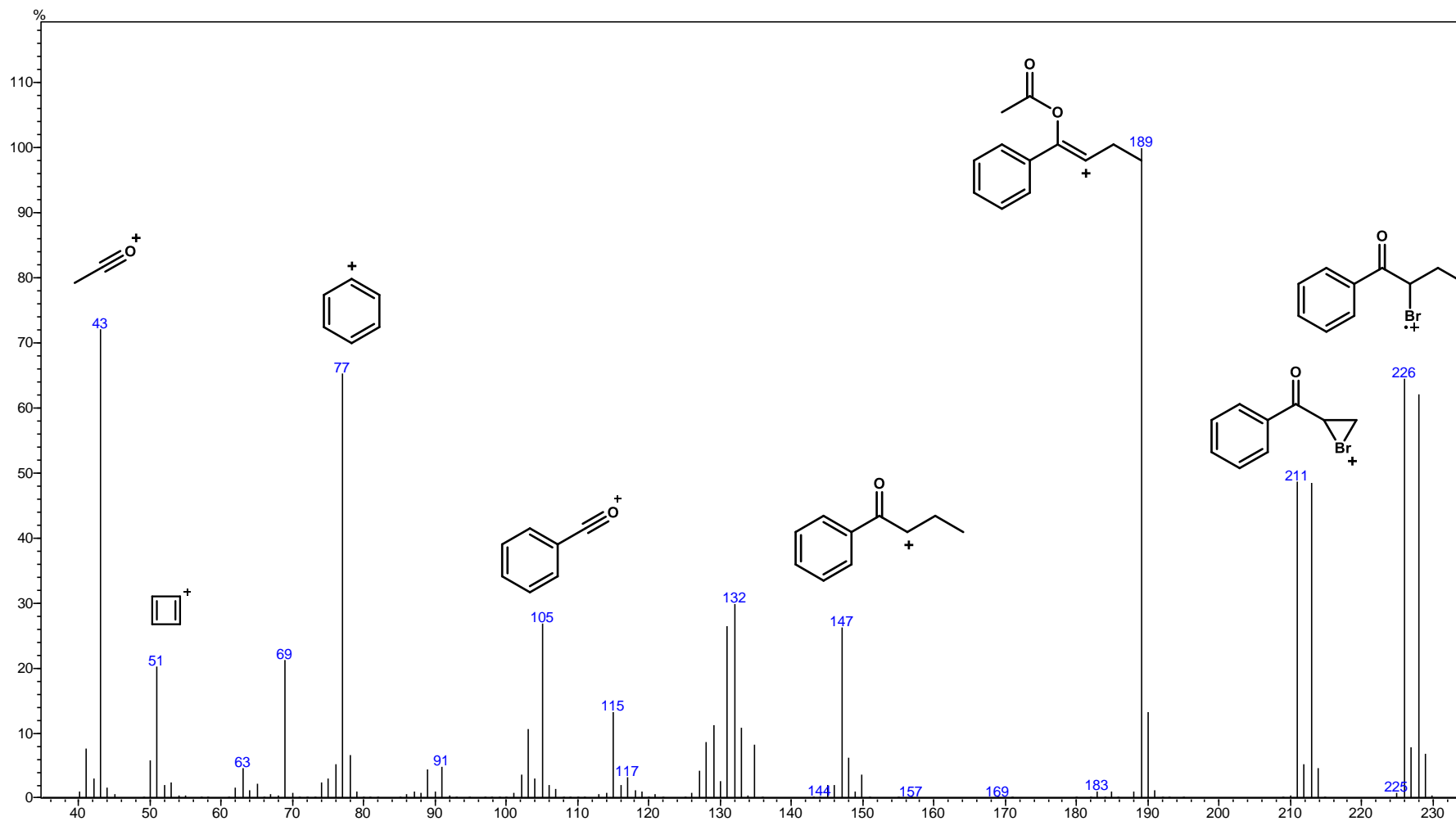
Table of Contents

Spectral characterization of the products

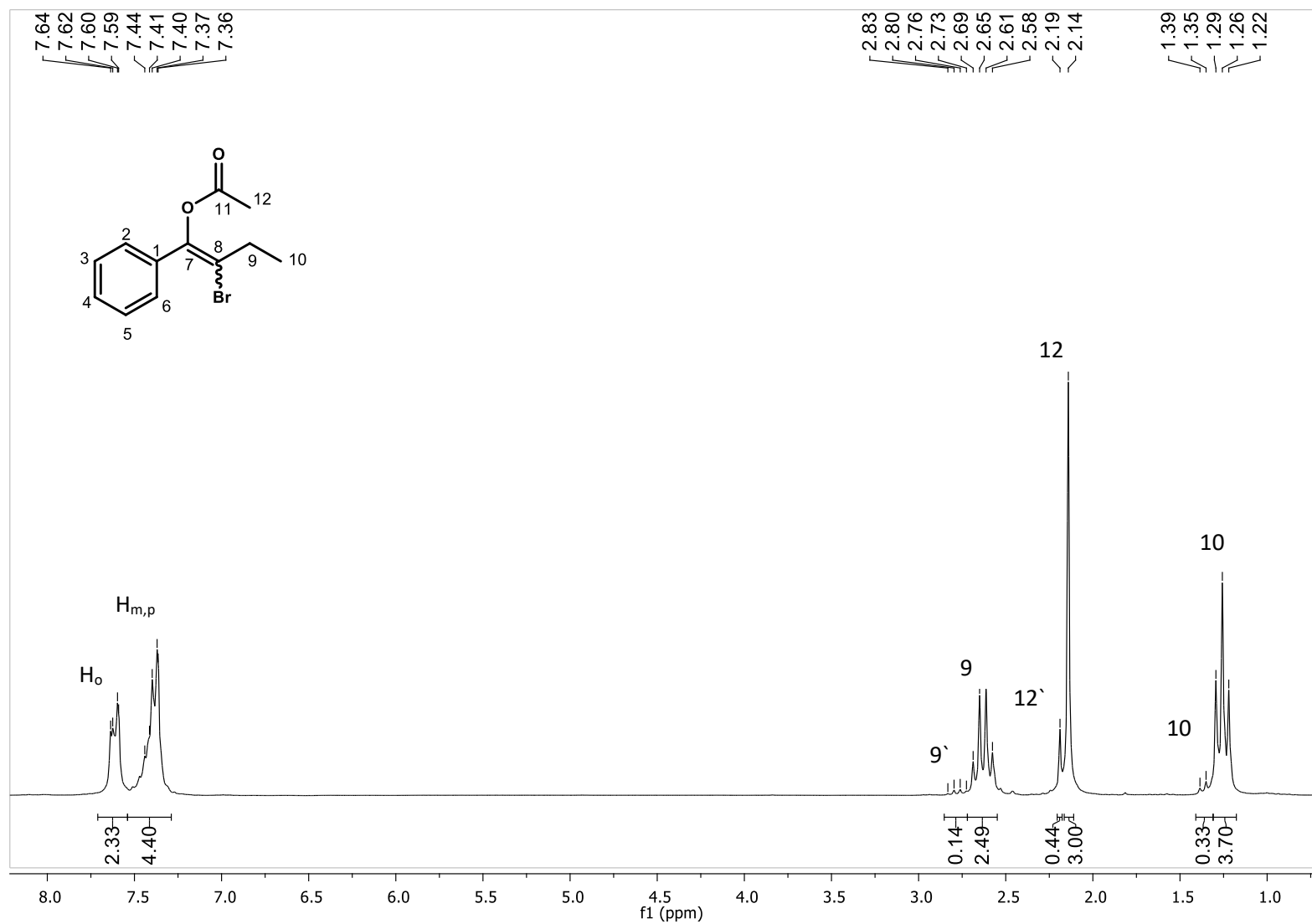
S2



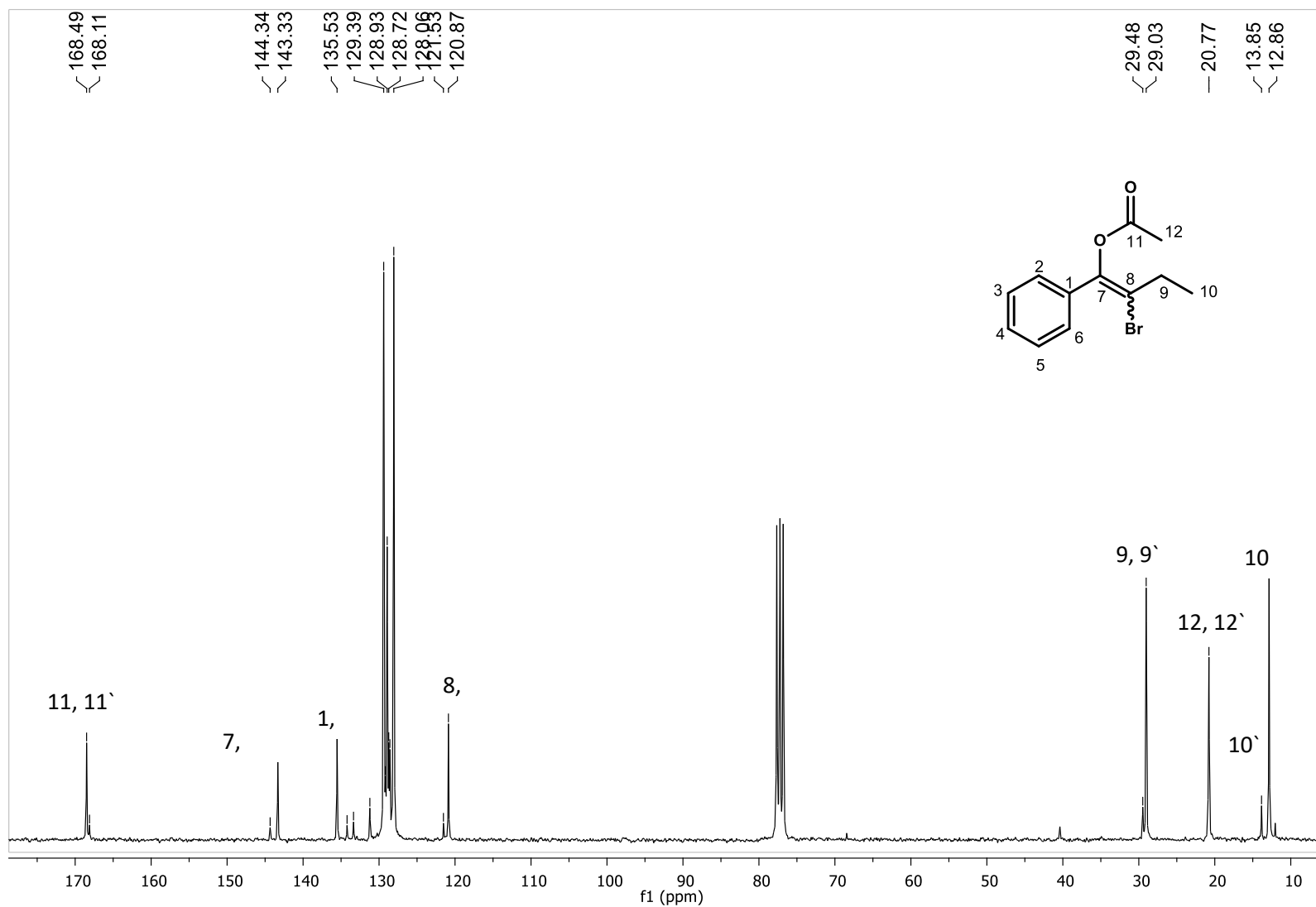
Spectrum S1. IR of 2-bromo-1-phenylbut-1-en-1-yl acetate.



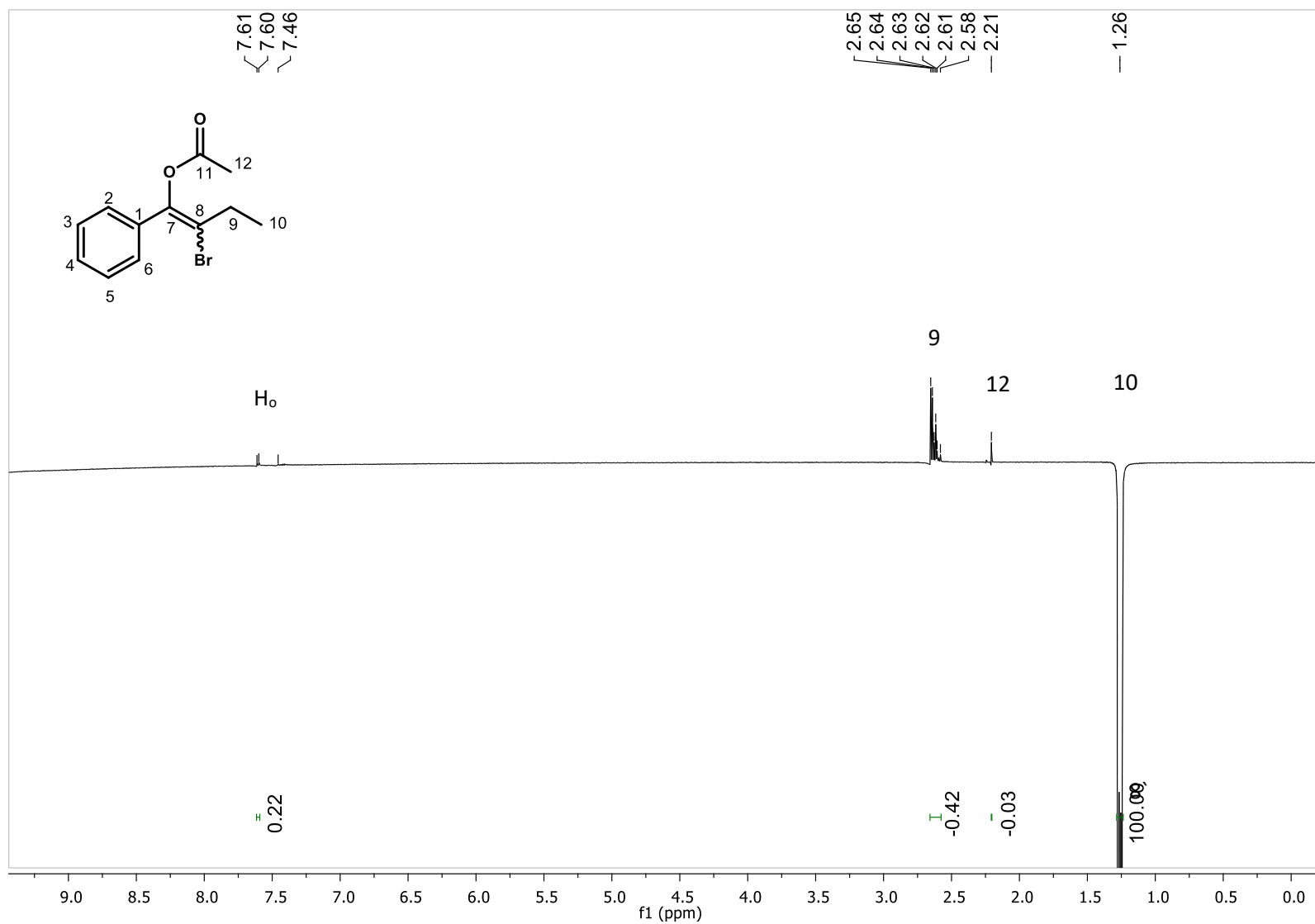
Spectrum S2. MS of 2-bromo-1-phenylbut-1-en-1-yl acetate.



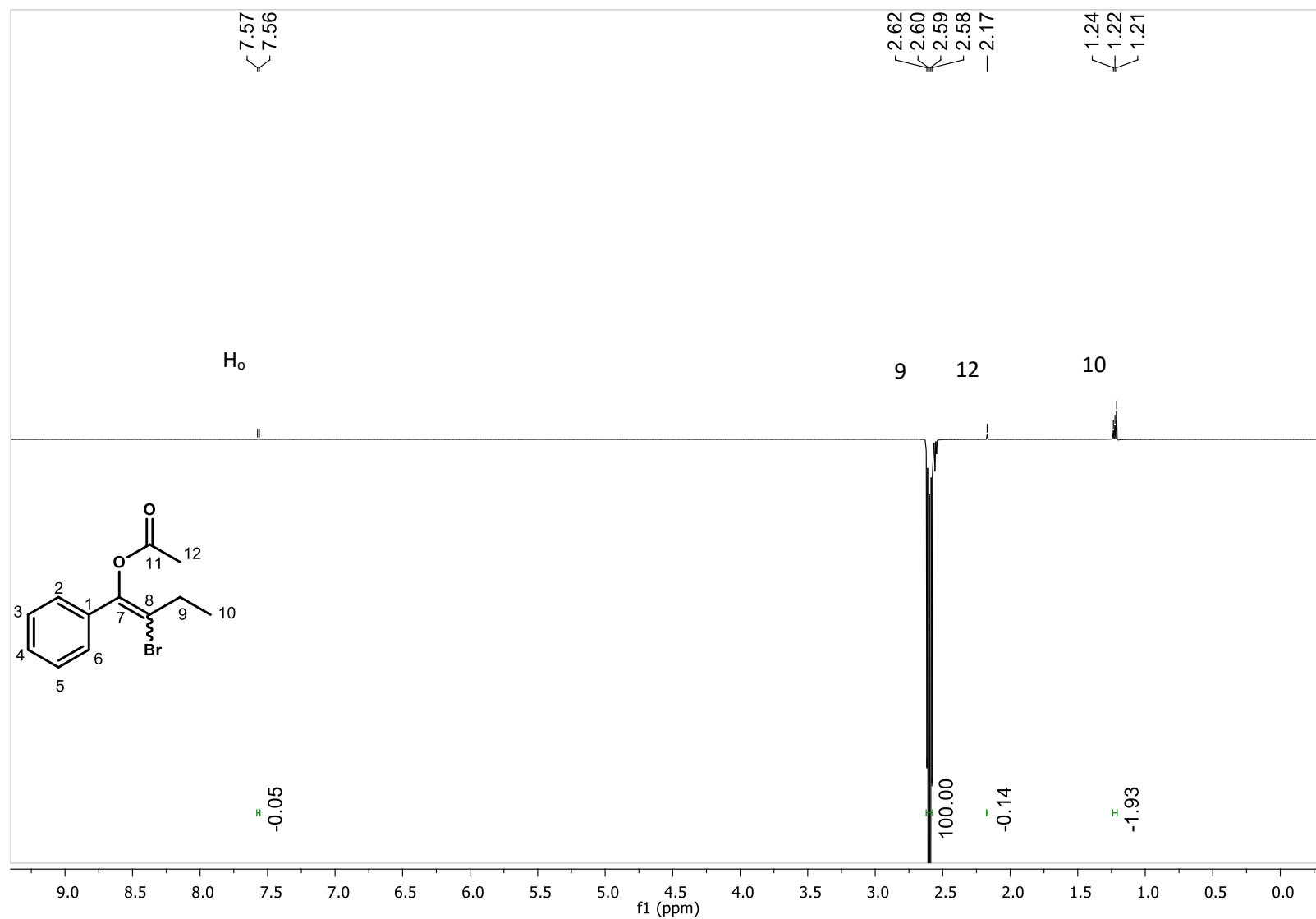
Spectrum S3. ¹H NMR (200MHz) of 2-bromo-1-phenylbut-1-en-1-yl acetate.



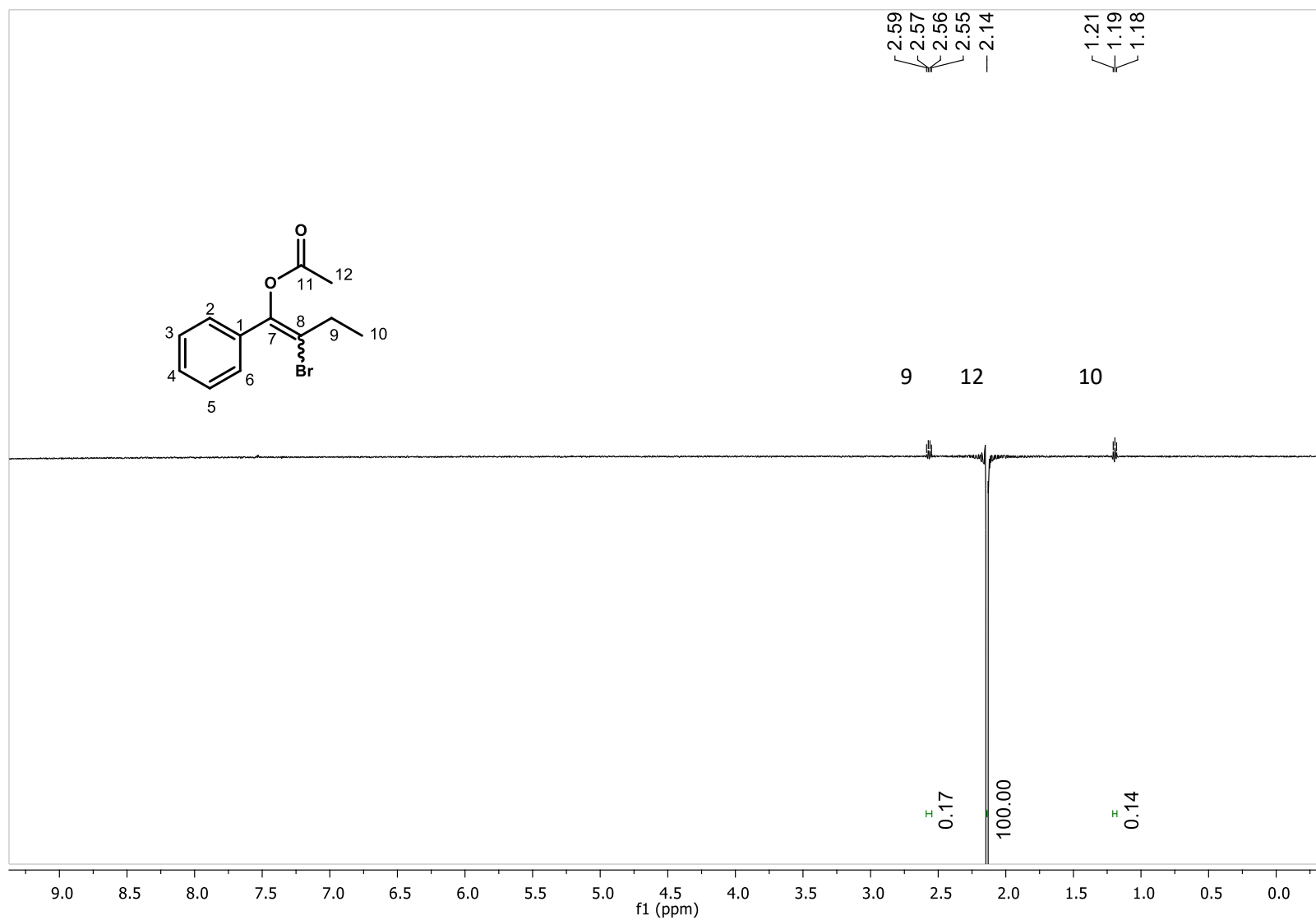
Spectrum S4. ¹³C NMR (75MHz) of 2-bromo-1-phenylbut-1-en-1-yl acetate.



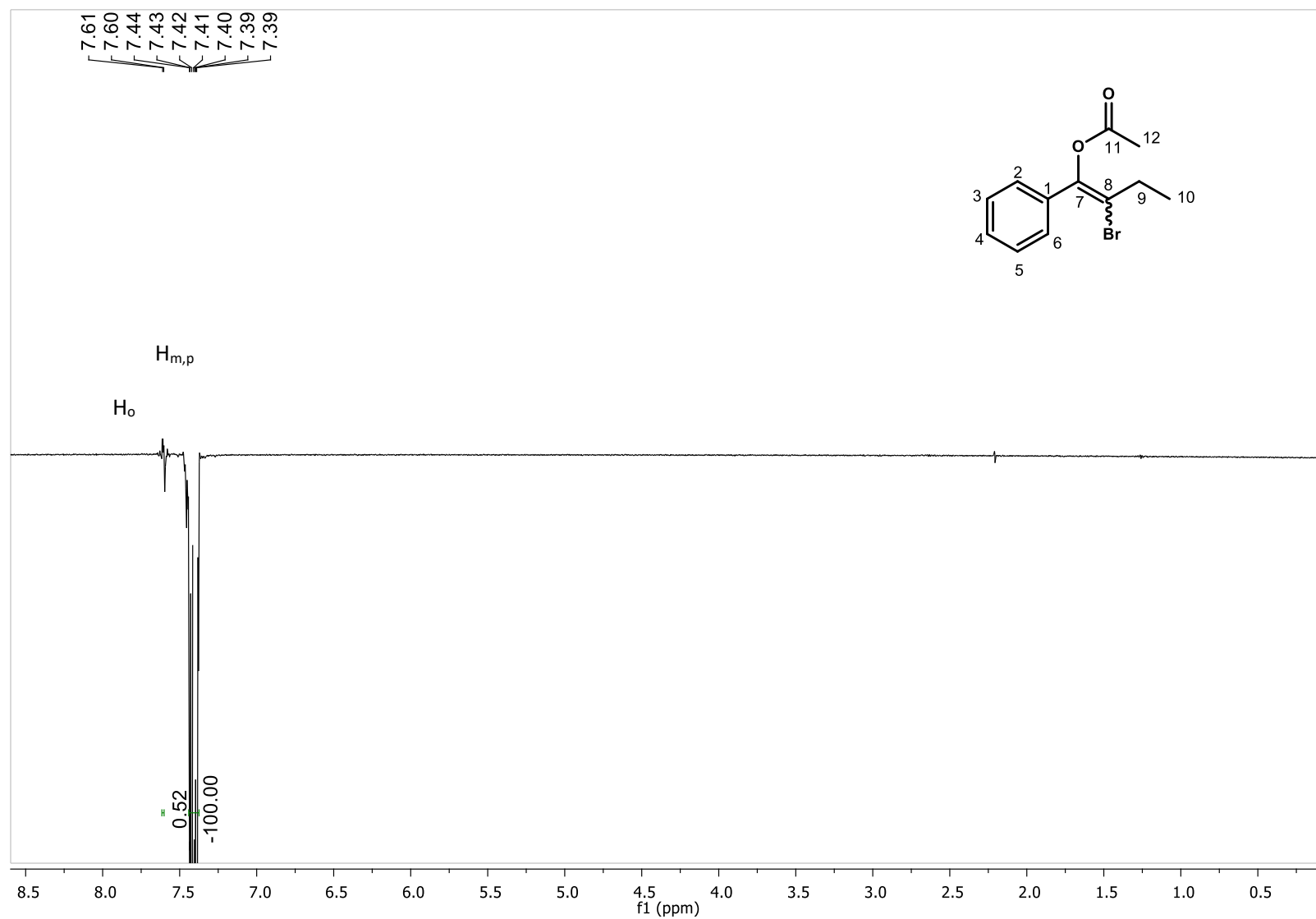
Spectrum S5. NOESY-1D of 2-bromo-1-phenylbut-1-en-1-yl acetate – irradiation at H10.



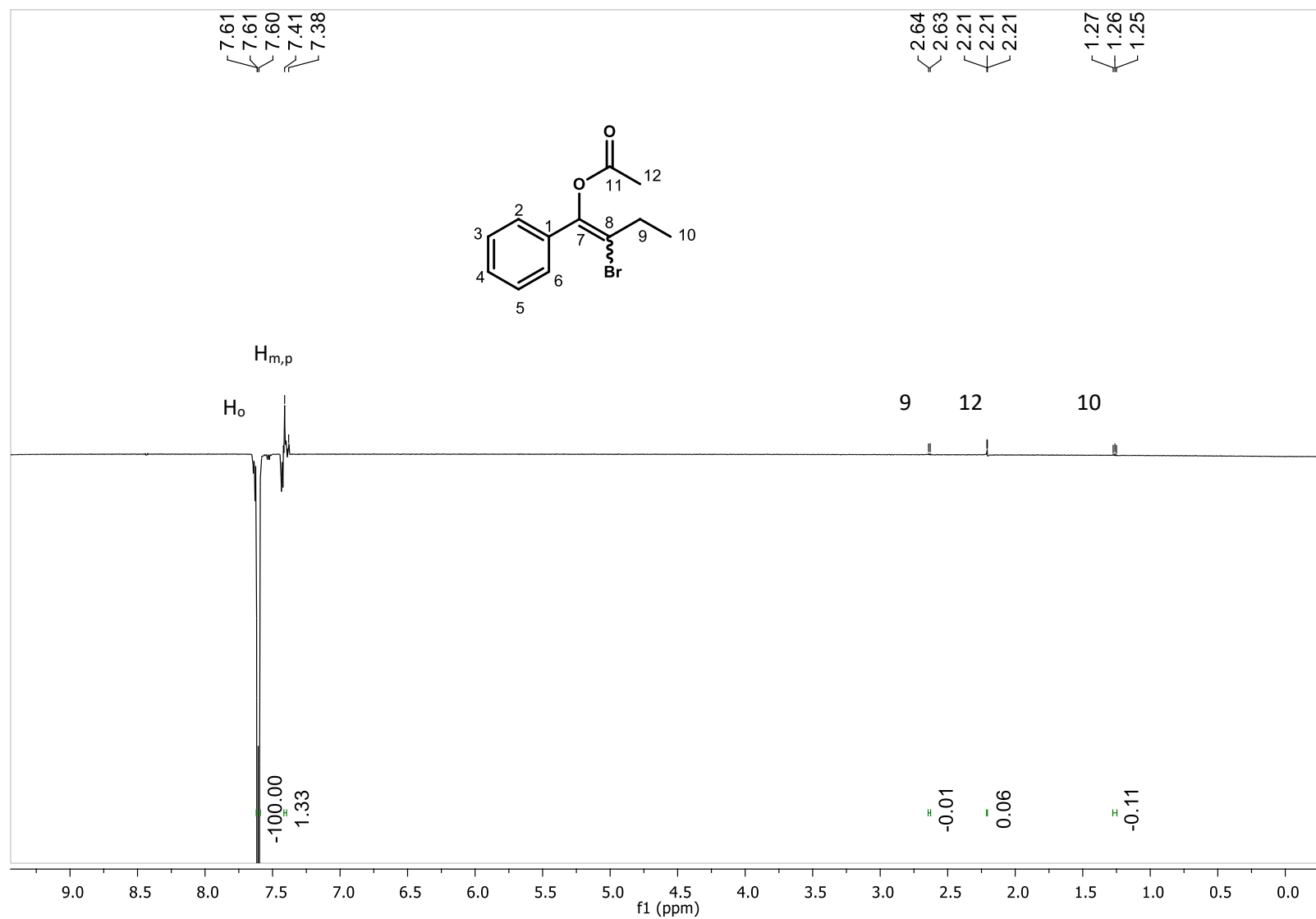
Spectrum S6. NOESY-1D of 2-bromo-1-phenylbut-1-en-1-yl acetate – irradiation at H₉.



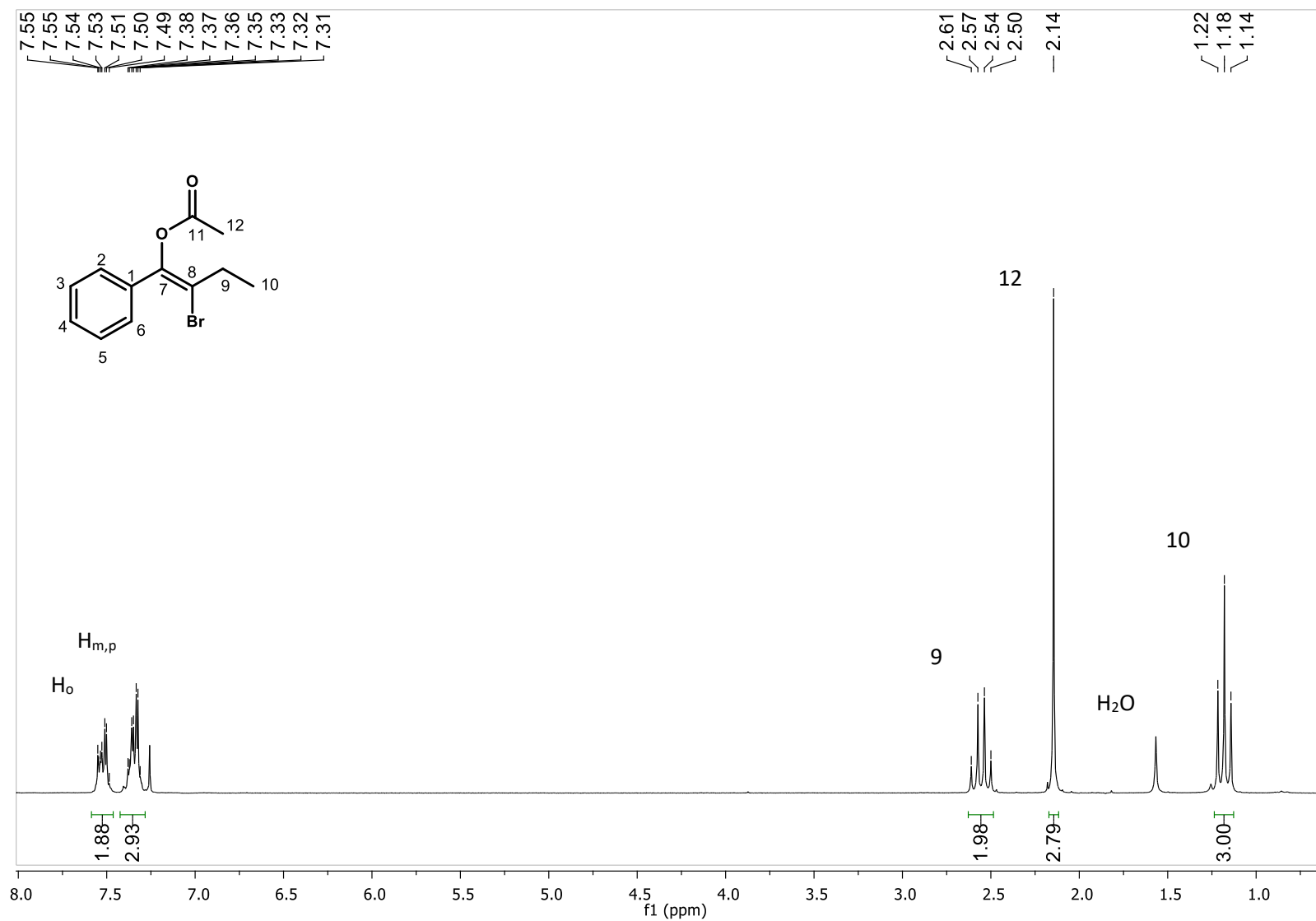
Spectrum S7. NOESY-1D of 2-bromo-1-phenylbut-1-en-1-yl acetate – irradiation at H12.



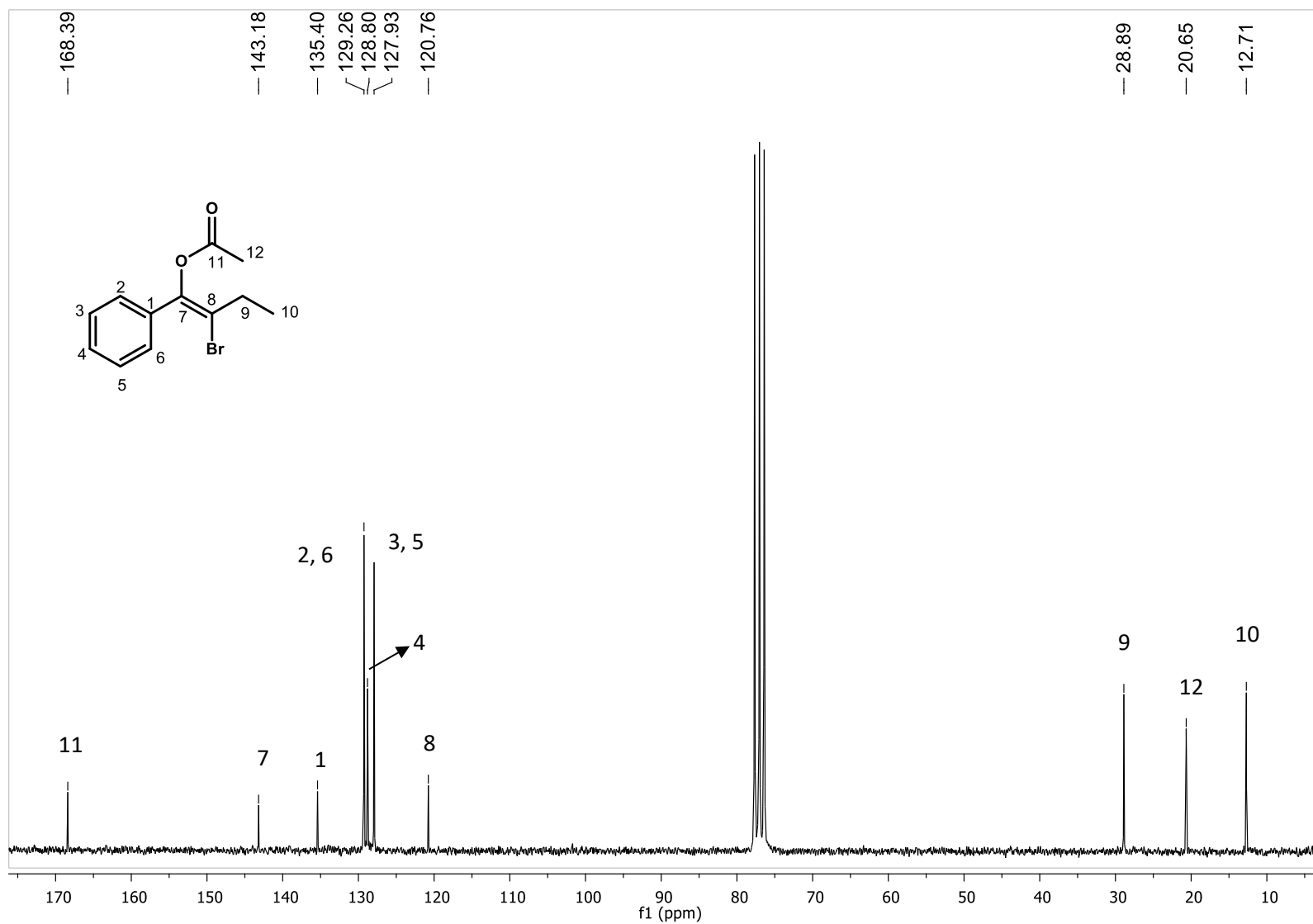
Spectrum S8. NOESY-1D of 2-bromo-1-phenylbut-1-en-1-yl acetate – irradiation at $H_{m,p}$.



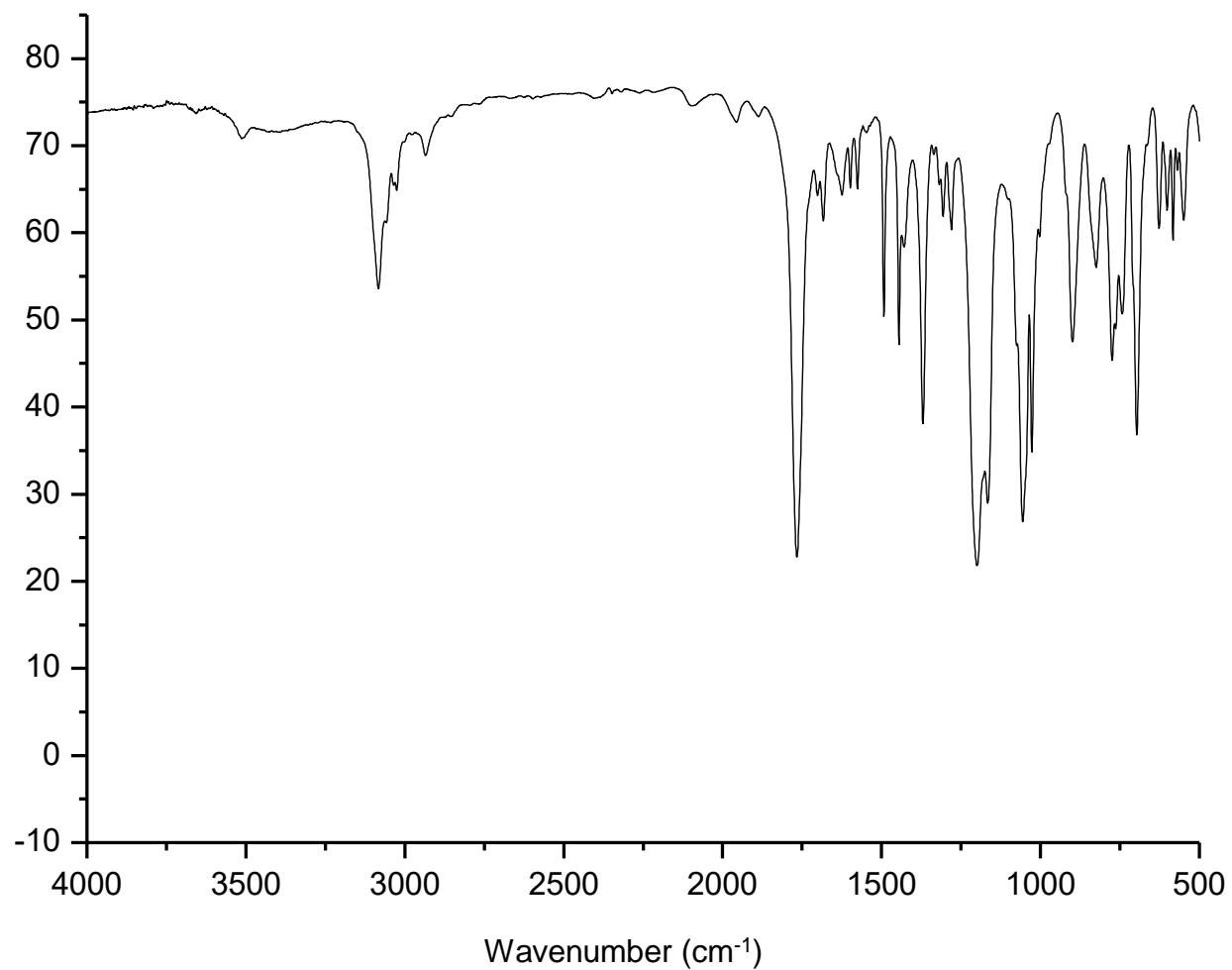
Spectrum S9. NOESY-1D of 2-bromo-1-phenylbut-1-en-1-yl acetate – irradiation at H_{ortho}.



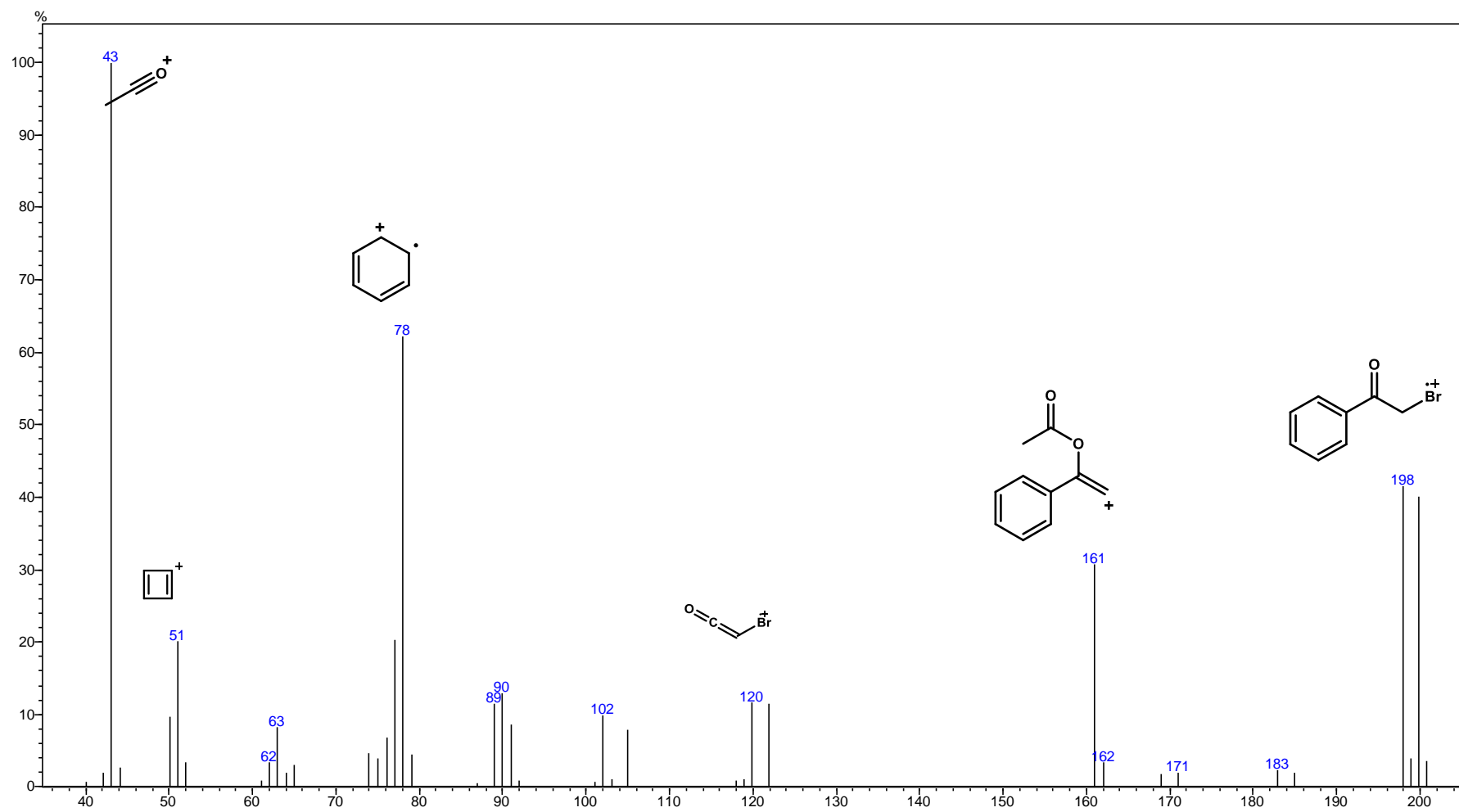
Spectrum S10. ¹H NMR (300MHz) of (E)-2-bromo-1-phenylbut-1-enyl acetate.



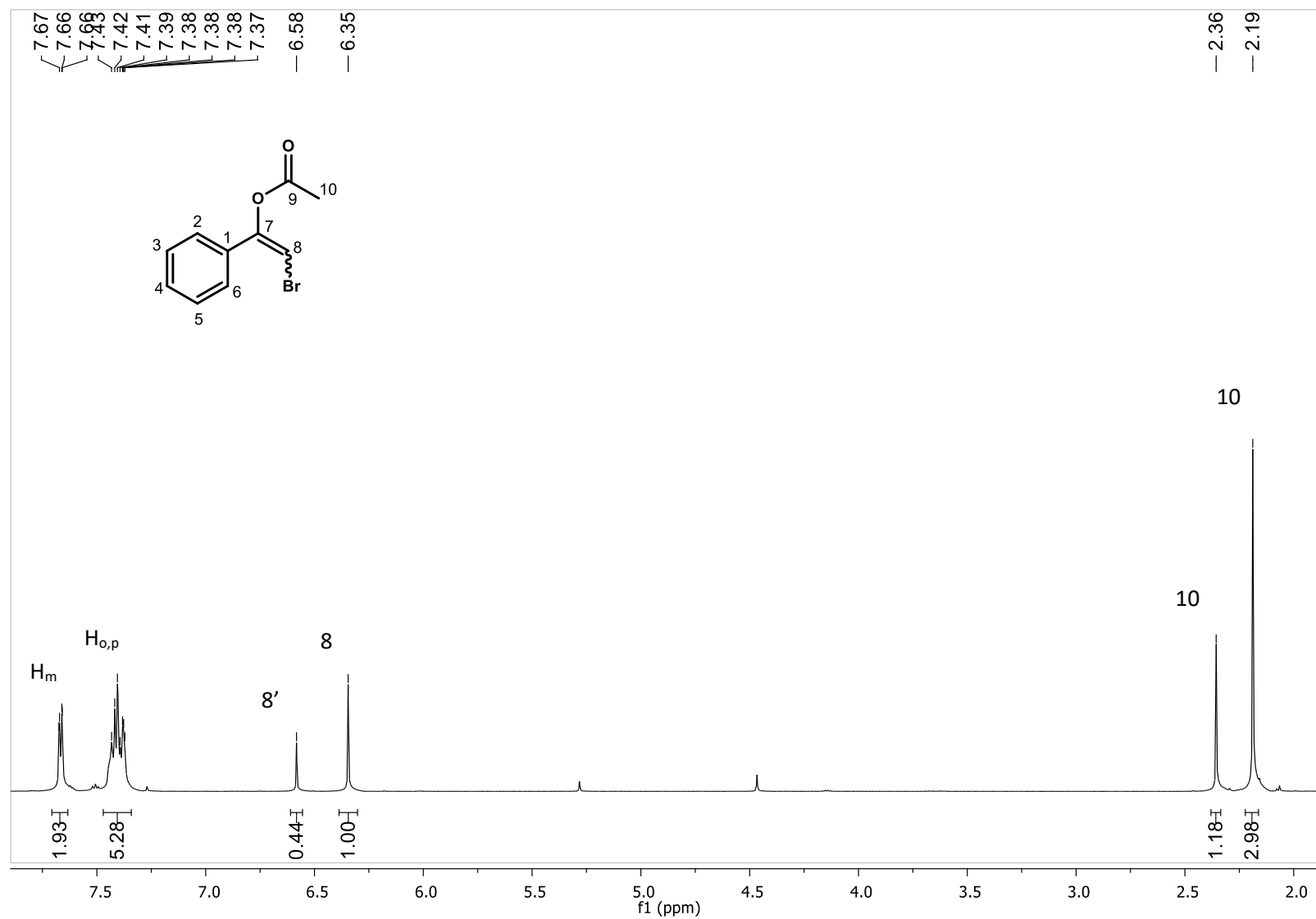
Spectrum S11. ¹³C NMR (75MHz) of (E)-2-bromo-1-phenylbut-1-en-1-yl acetate.

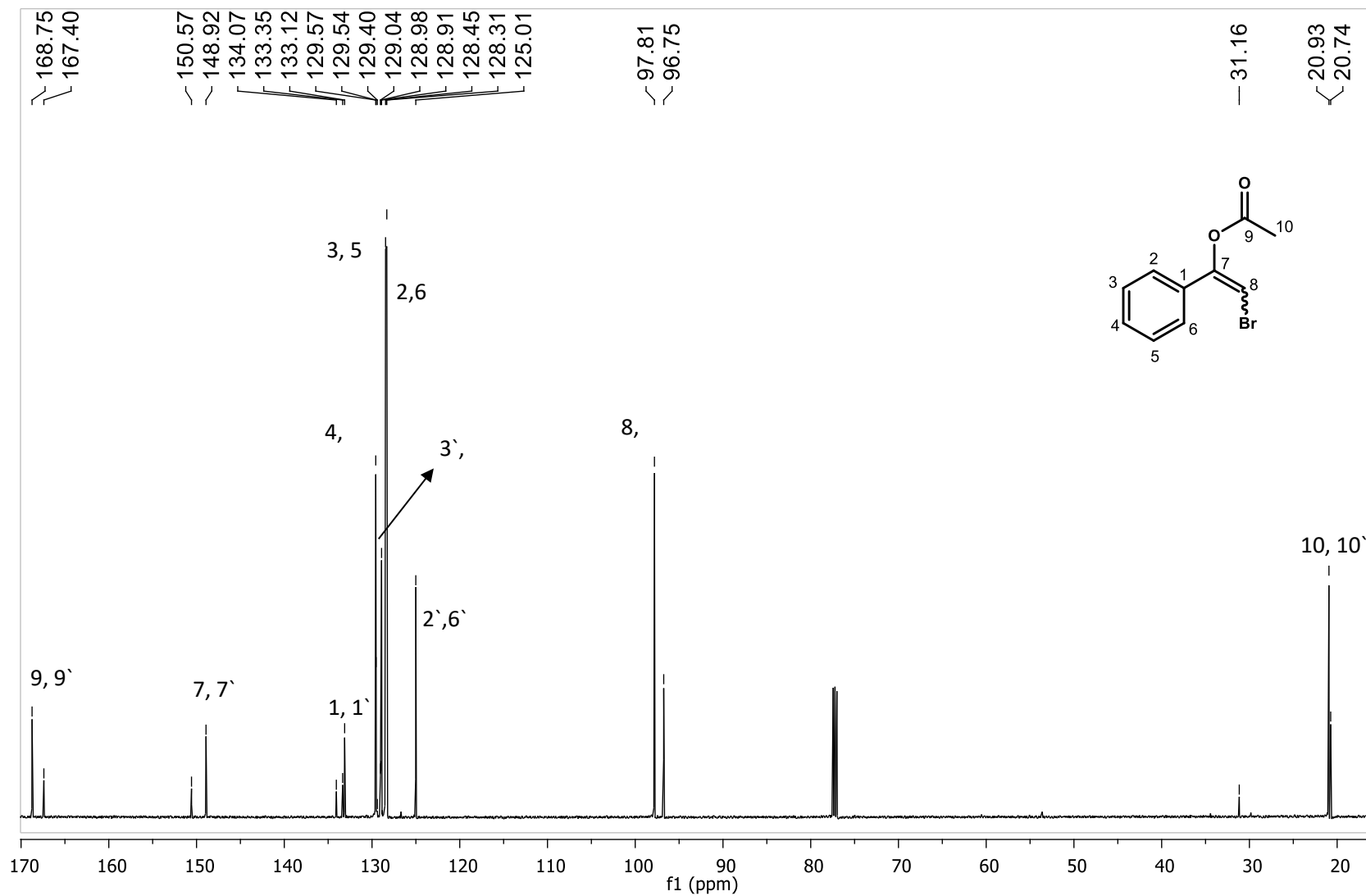


Spectrum S12. IR of 2-bromo-1-phenylvinyl acetate.

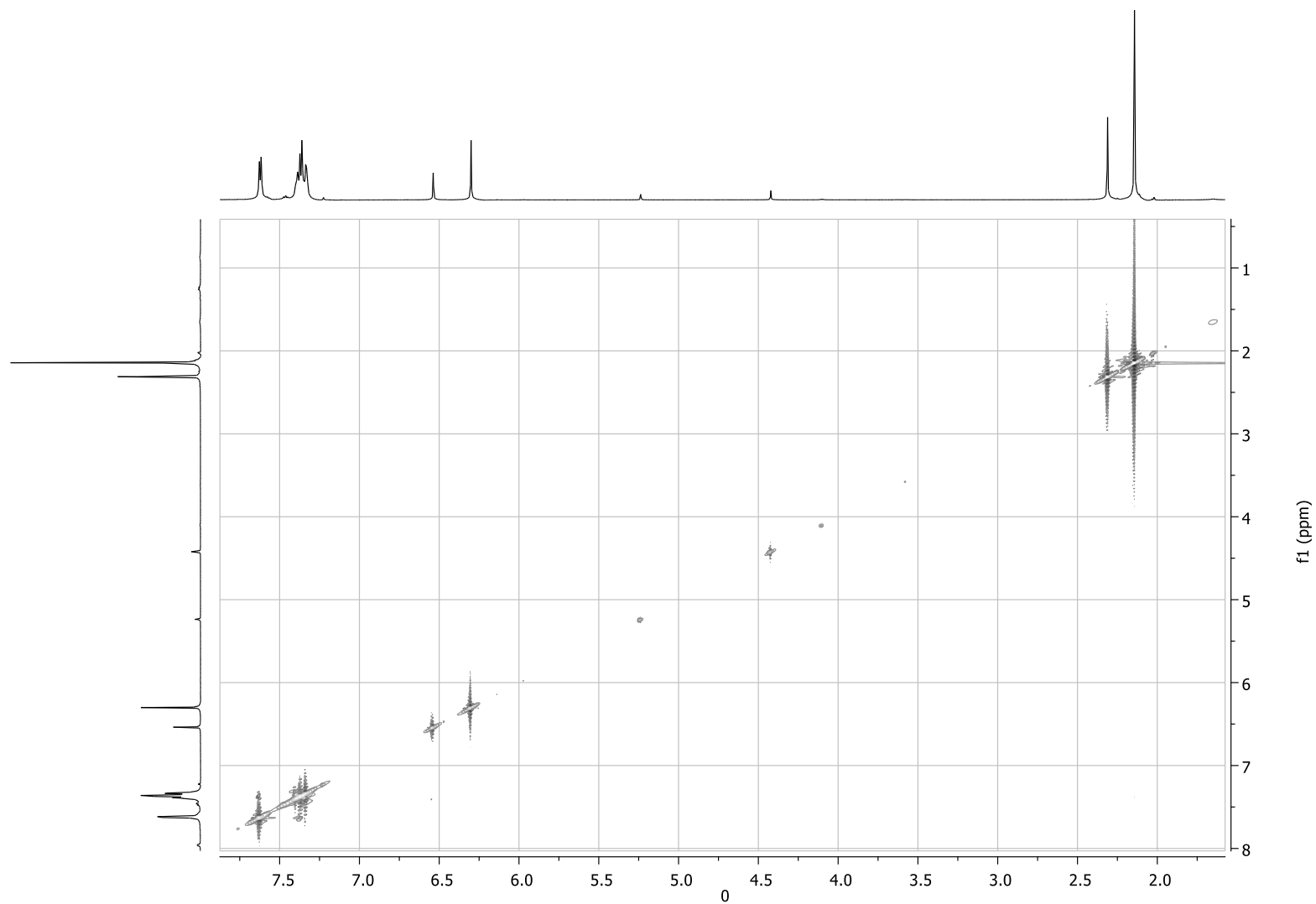


Spectrum S13. MS of 2-bromo-1-phenylvinyl acetate.

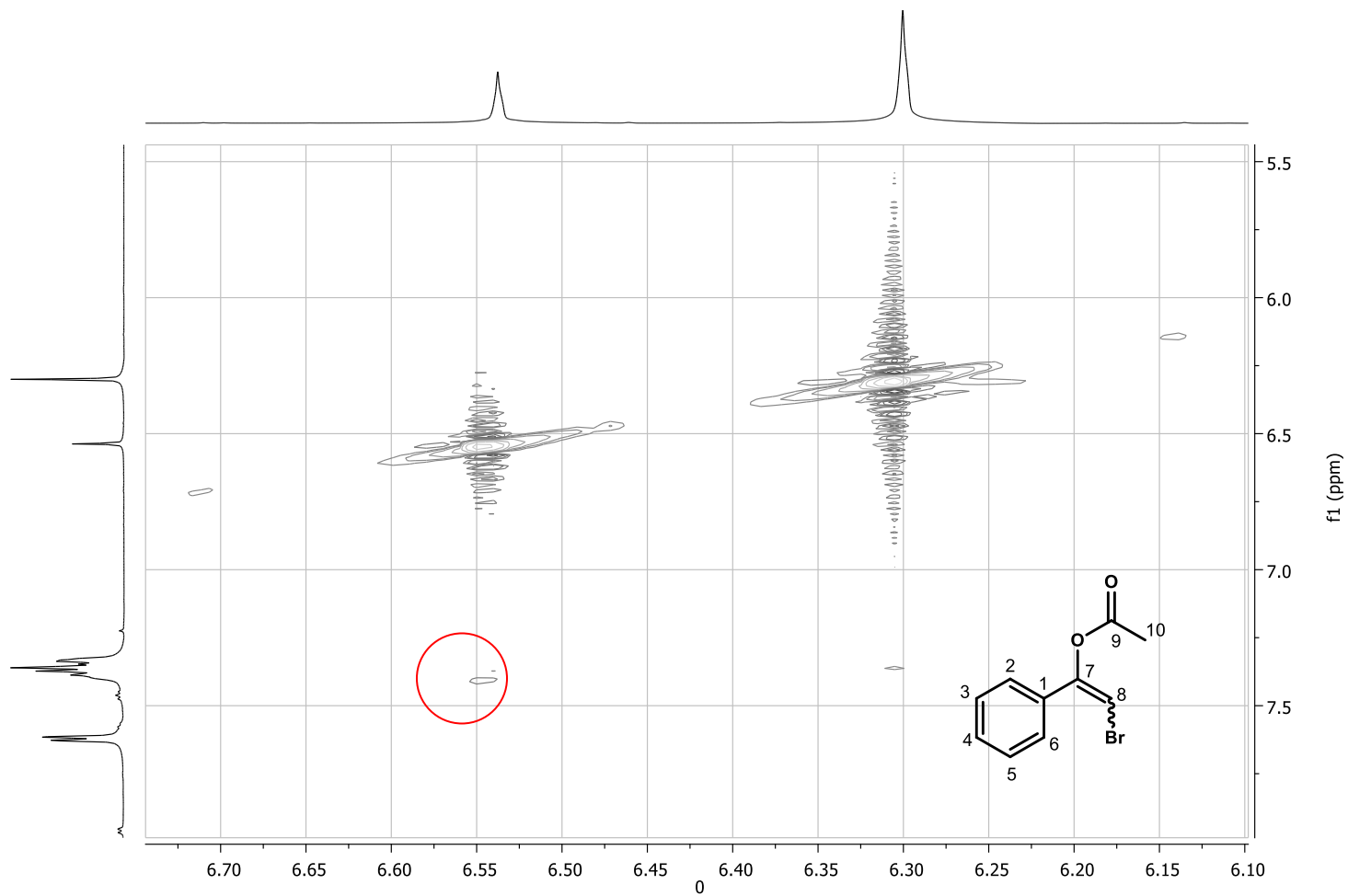
Spectrum S14. ^1H NMR (600MHz) of 2-bromo-1-phenylvinyl acetate.



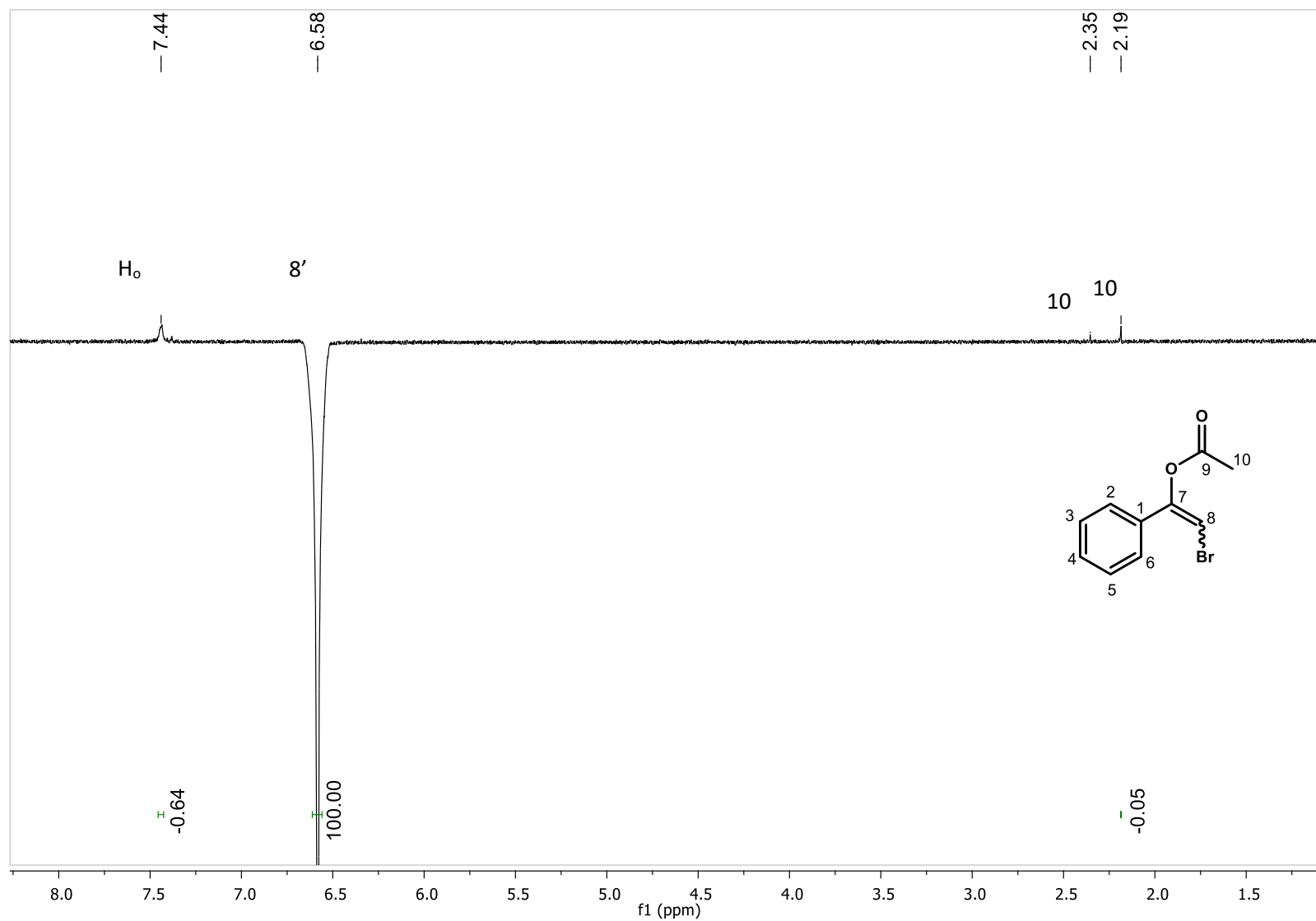
Spectrum S15. ^{13}C NMR (150MHz) of 2-bromo-1-phenylvinyl acetate.



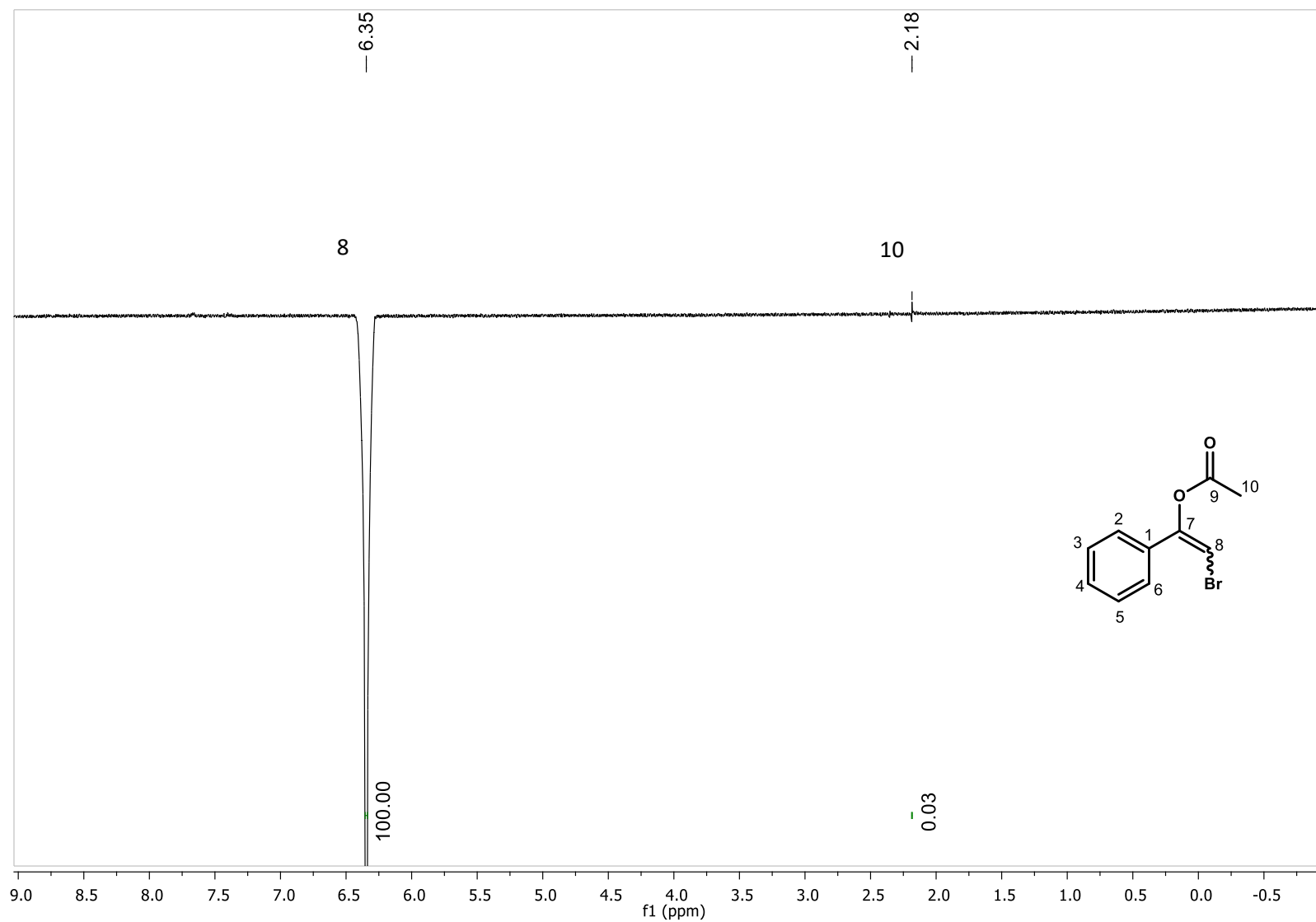
Spectrum S16. NOESY-2D of 2-bromo-1-phenylvinyl acetate.



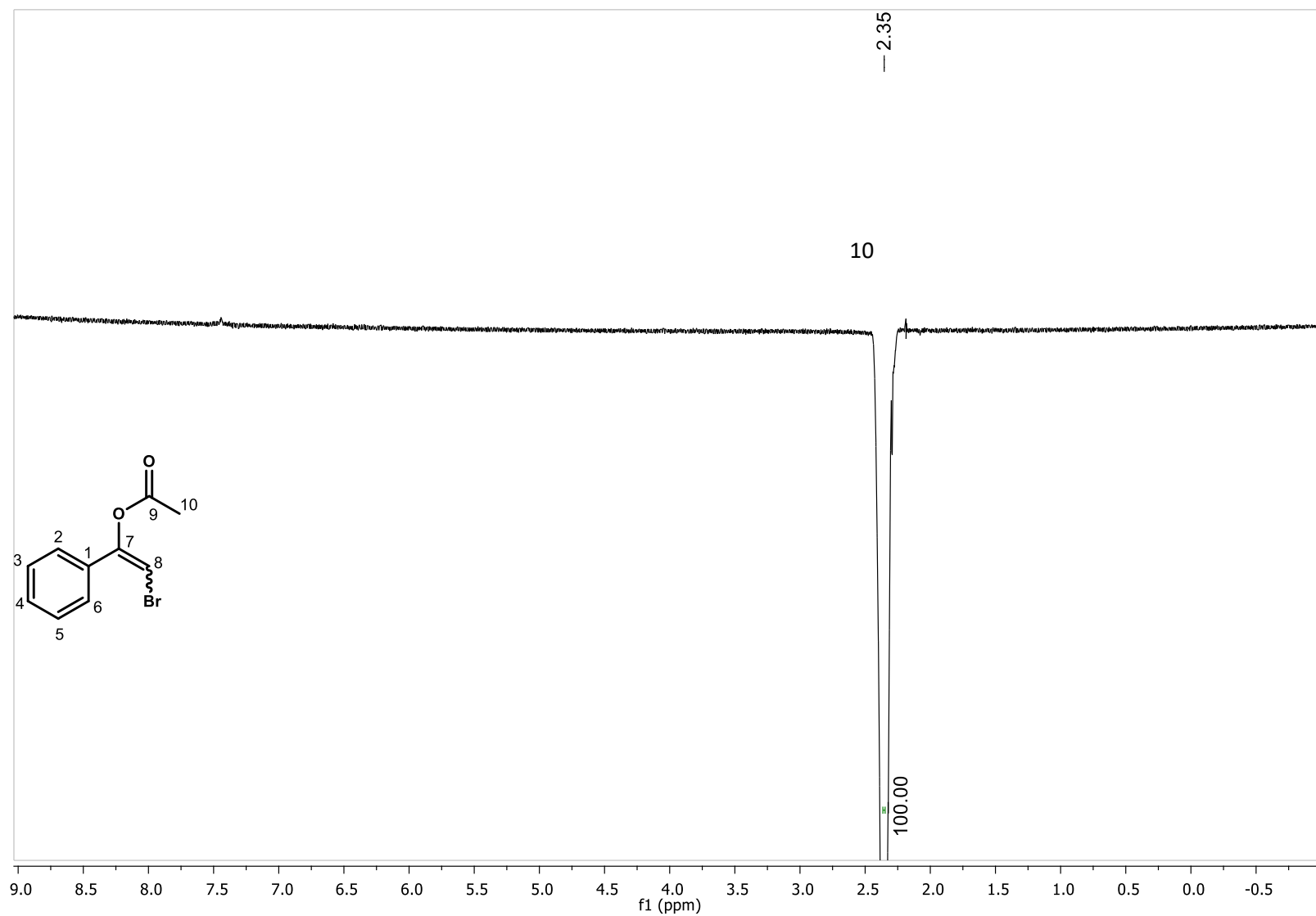
Spectrum S17. Expansion of NOESY-2D of 2-bromo-1-phenylvinyl acetate.



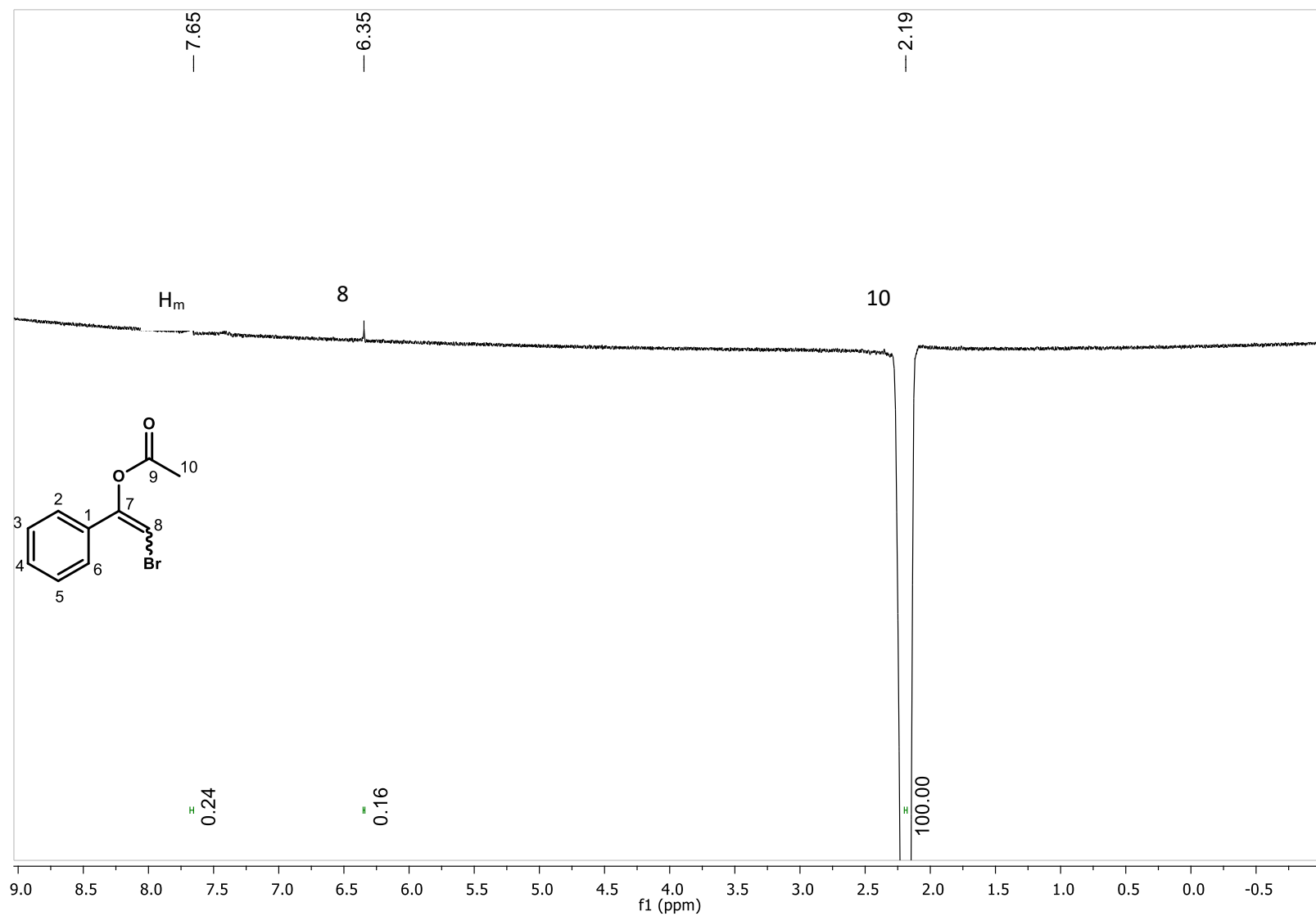
Spectrum S18. NOESY-1D of 2-bromo-1-phenylvinyl acetate – irradiation at H8'.



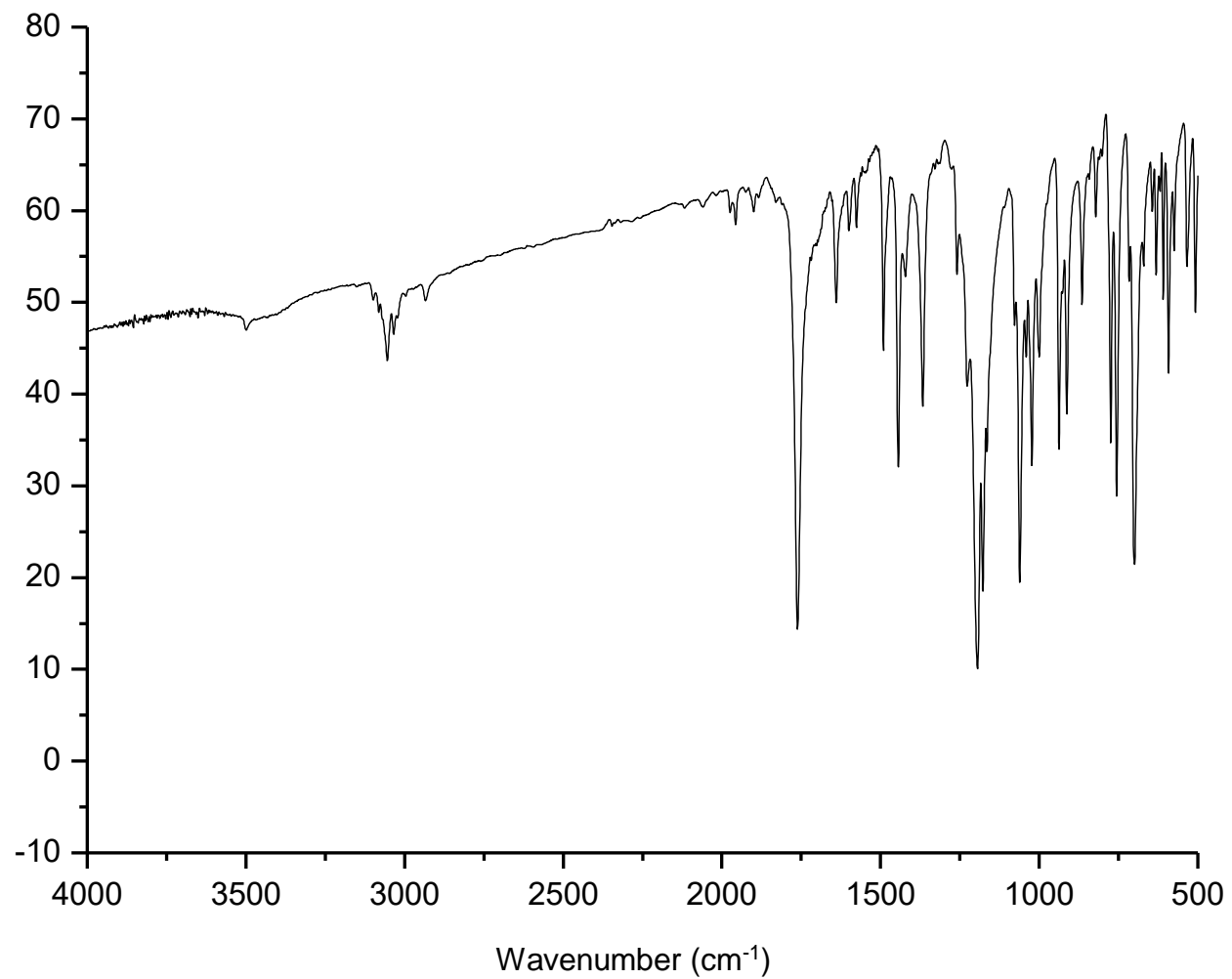
Spectrum S19. NOESY-1D of 2-bromo-1-phenylvinyl acetate – irradiation at H8.



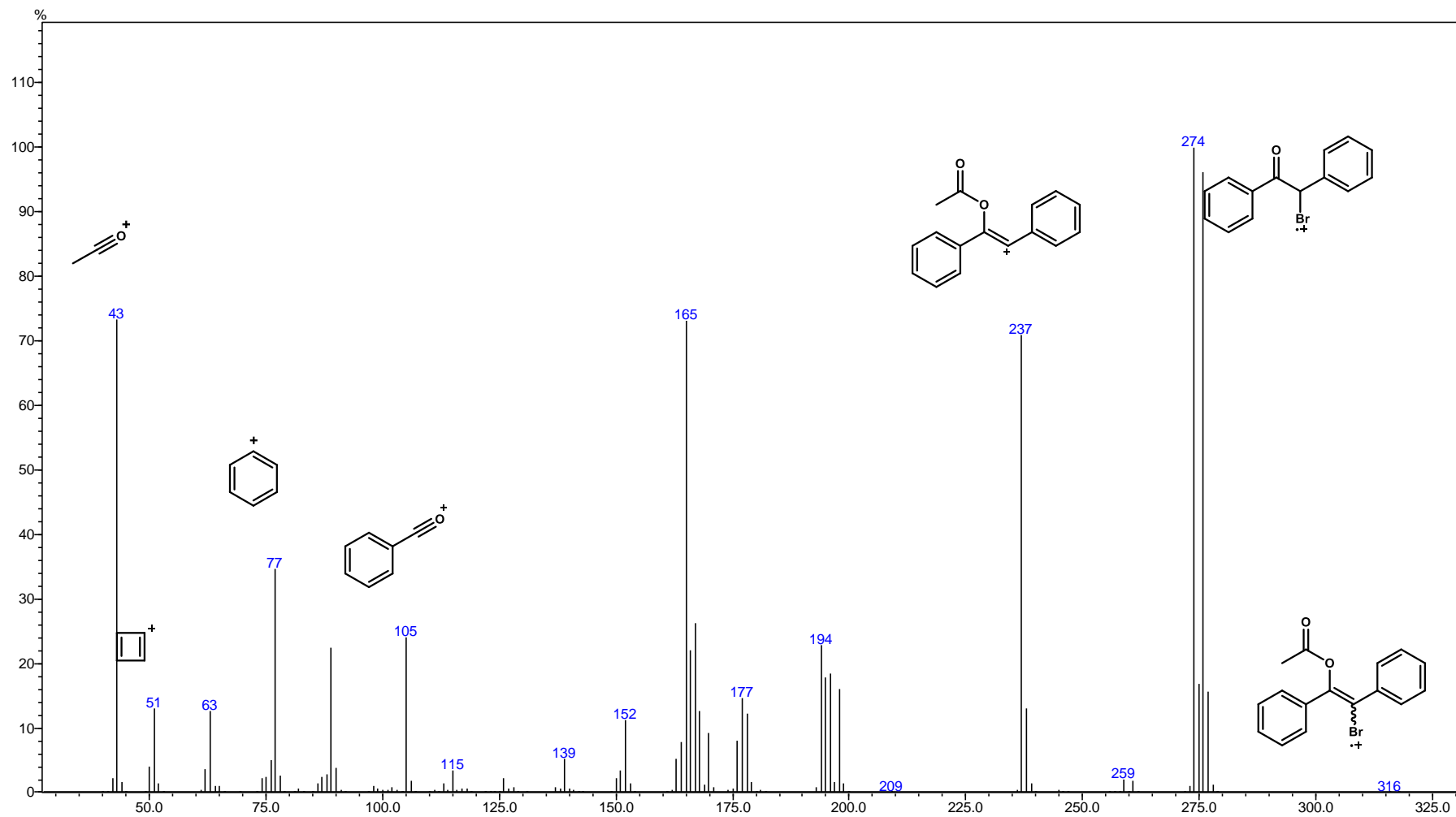
Spectrum S20. NOESY-1D of 2-bromo-1-phenylvinyl acetate – irradiation at H10'.



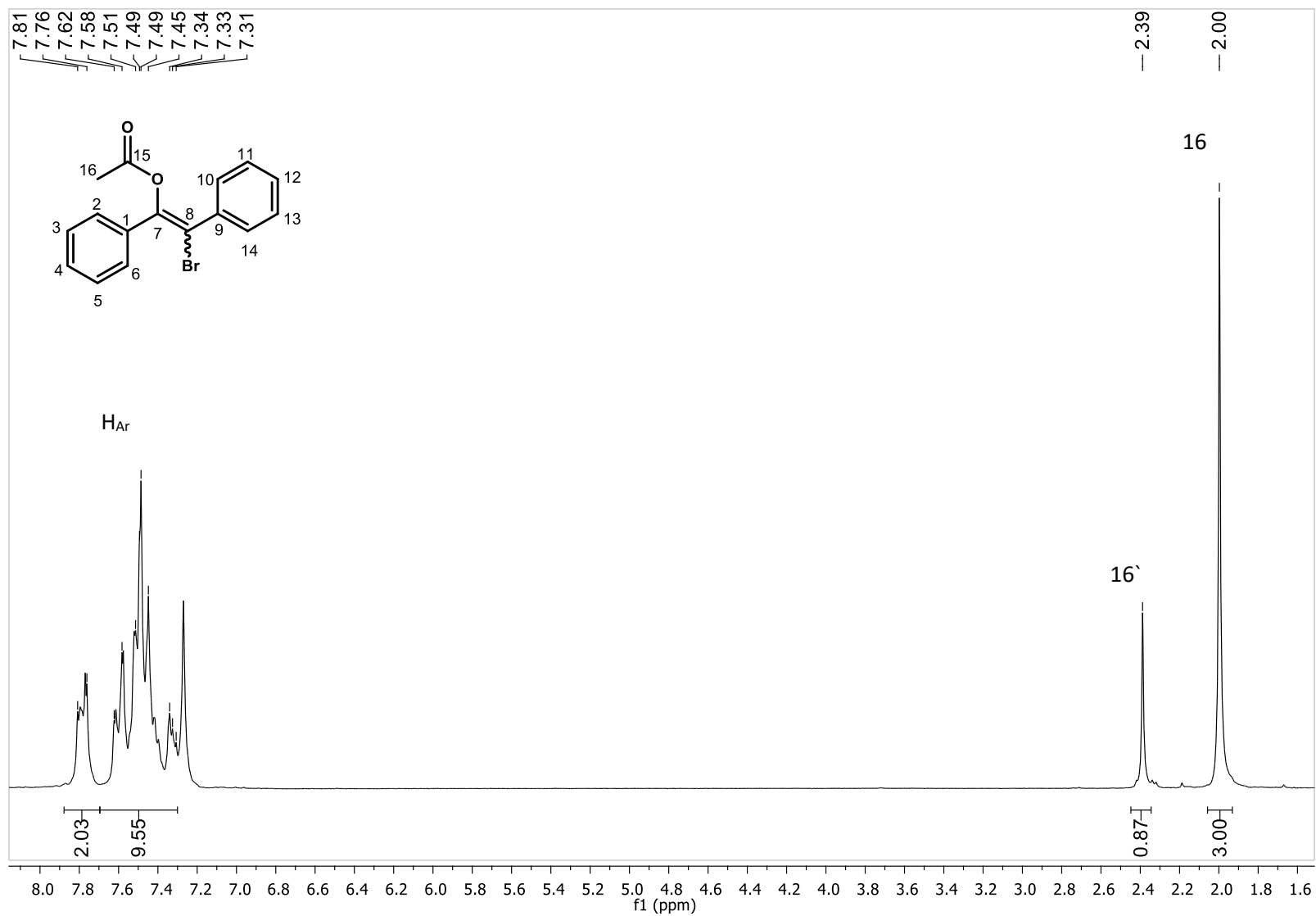
Spectrum S21. NOESY-1D of 2-bromo-1-phenylvinyl acetate – irradiation at H10.



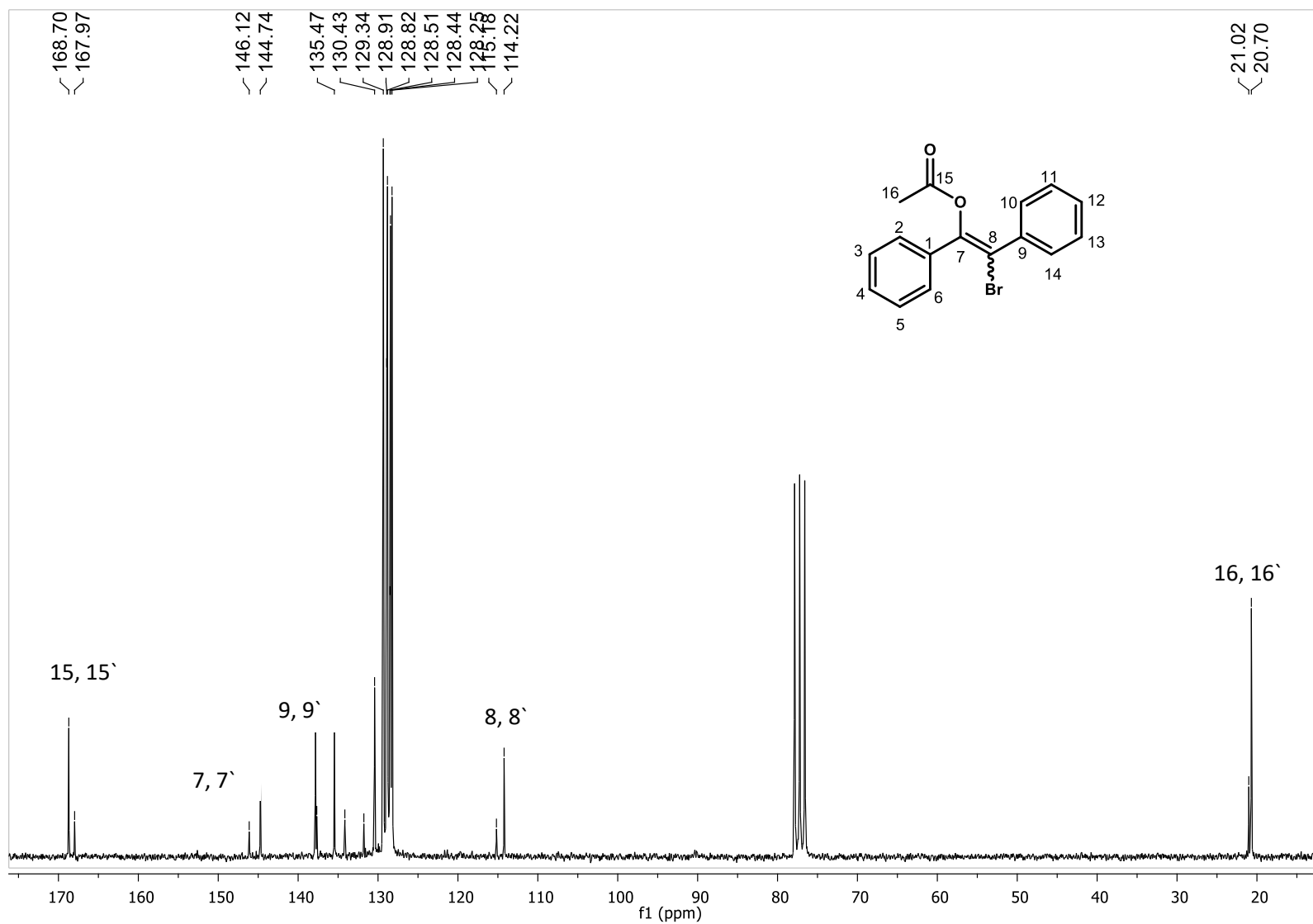
Spectrum S22. IR of 2-bromo-1,2-diphenylvinyl acetate.



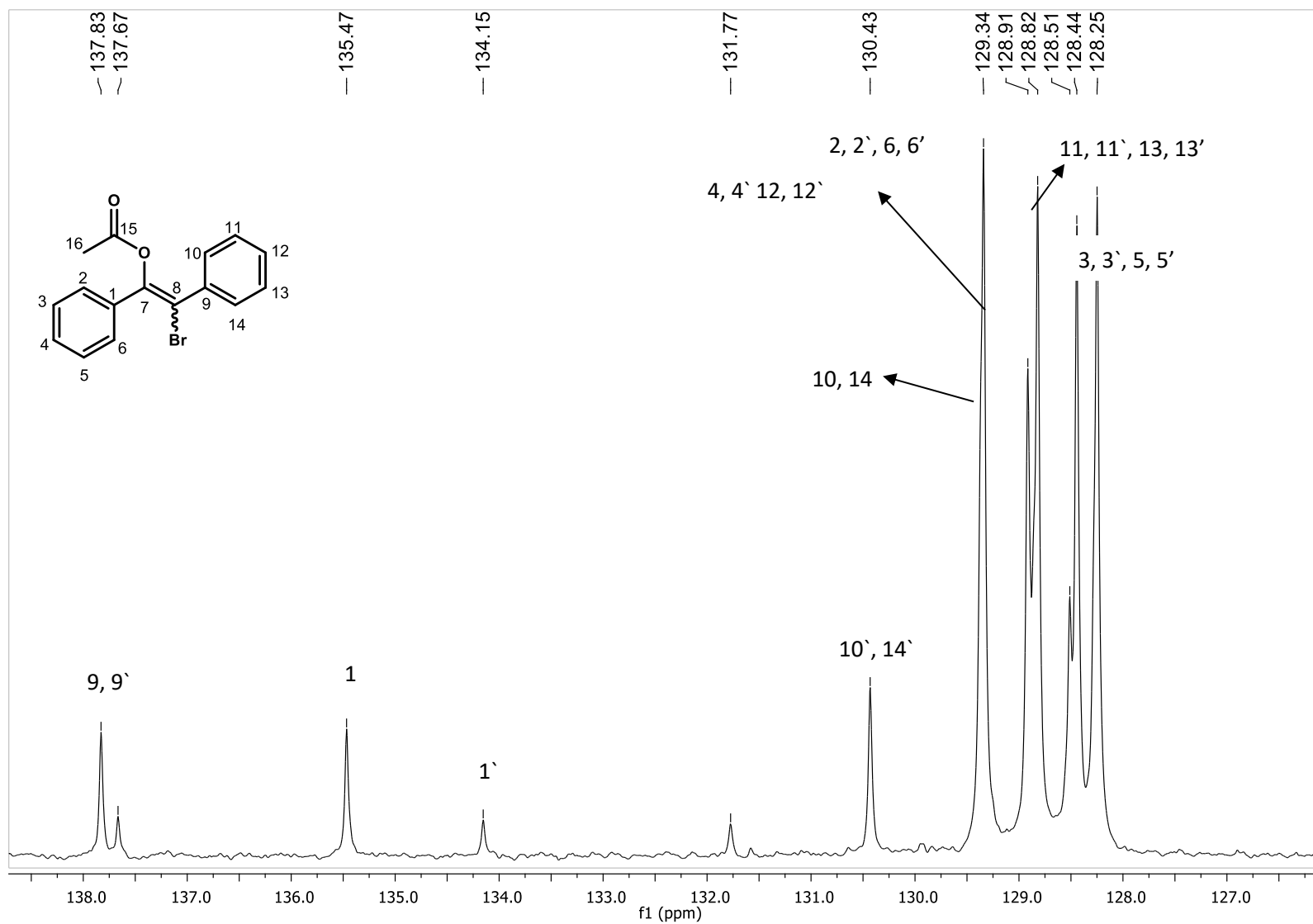
Spectrum S23. MS of 2-bromo-1,2-diphenylvinyl acetate.



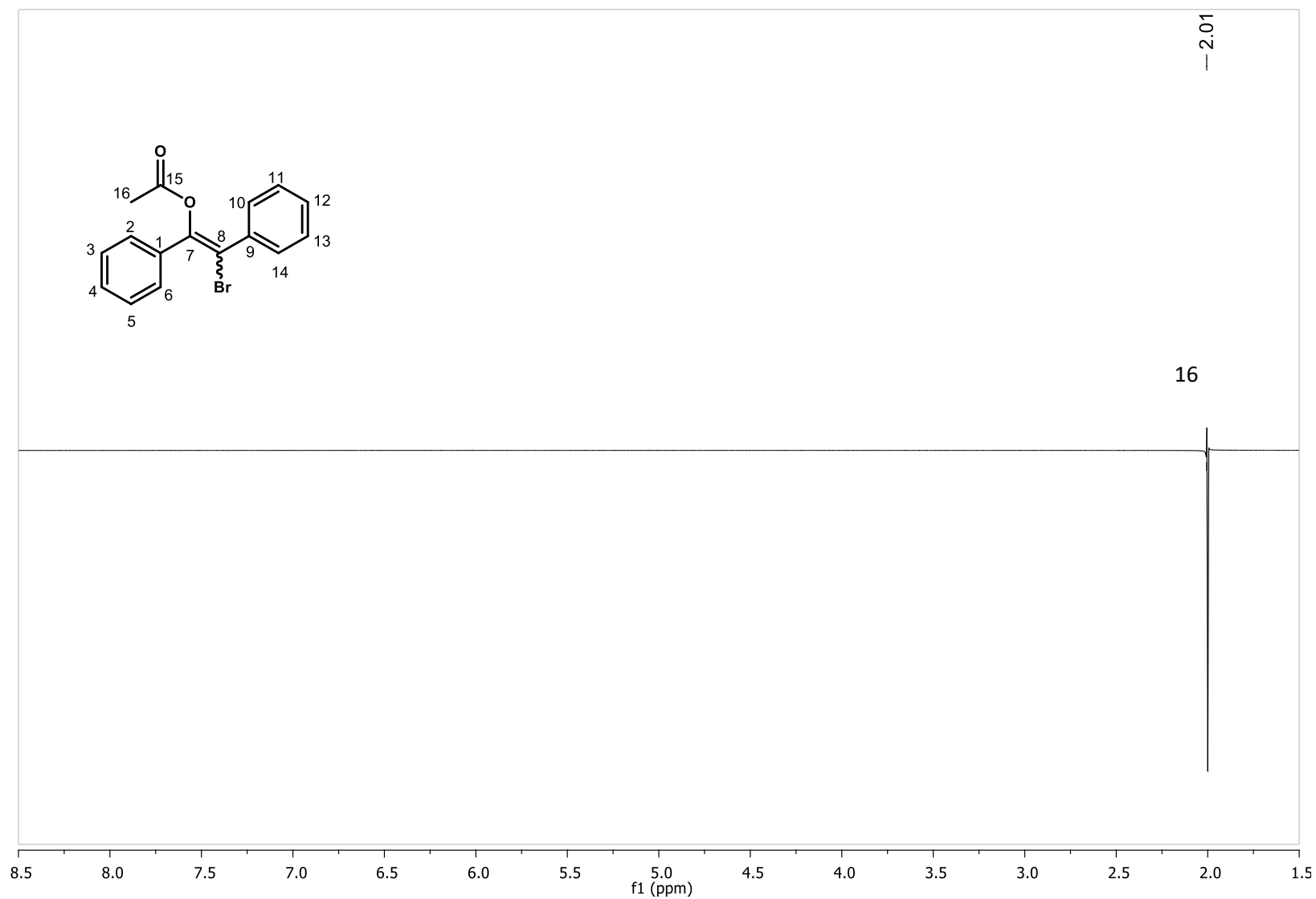
Spectrum S24. ¹H NMR (200MHz) of 2-bromo-1,2-diphenylvinyl acetate.



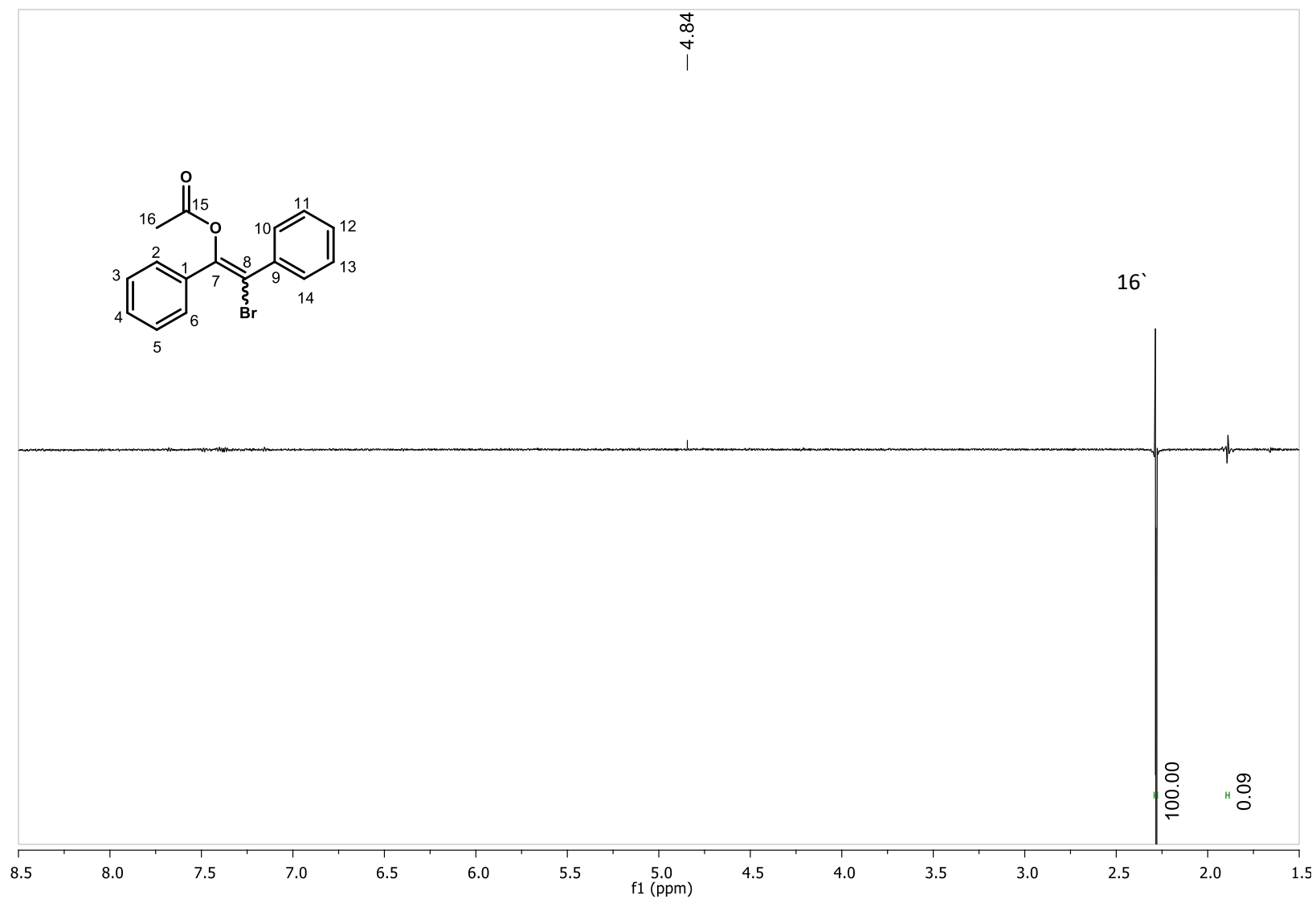
Spectrum S25. ^{13}C NMR (50MHz) of 2-bromo-1,2-diphenylvinyl acetate.



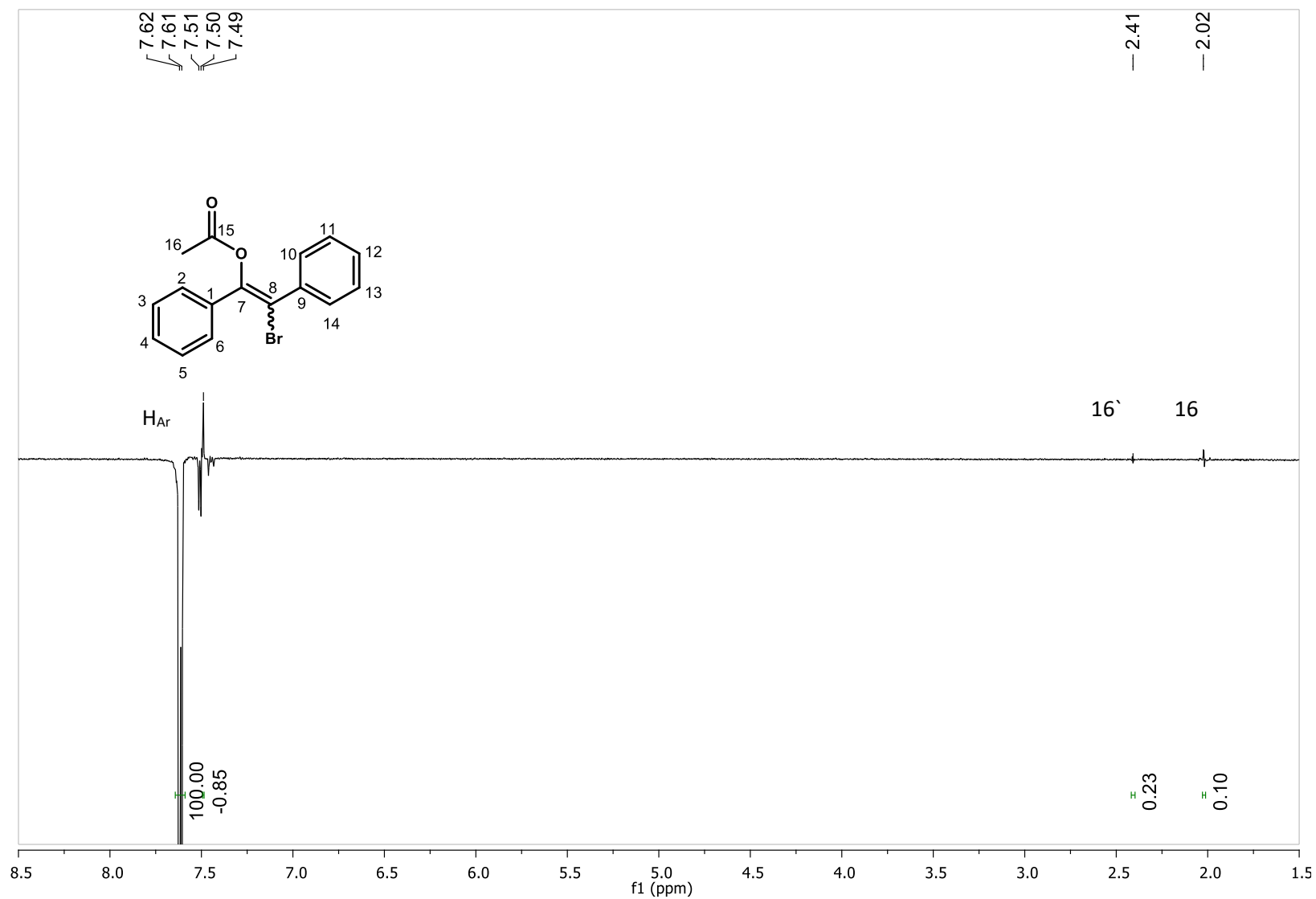
Spectrum S26. Expansion of ^{13}C NMR of 2-bromo-1,2-diphenylvinyl acetate.



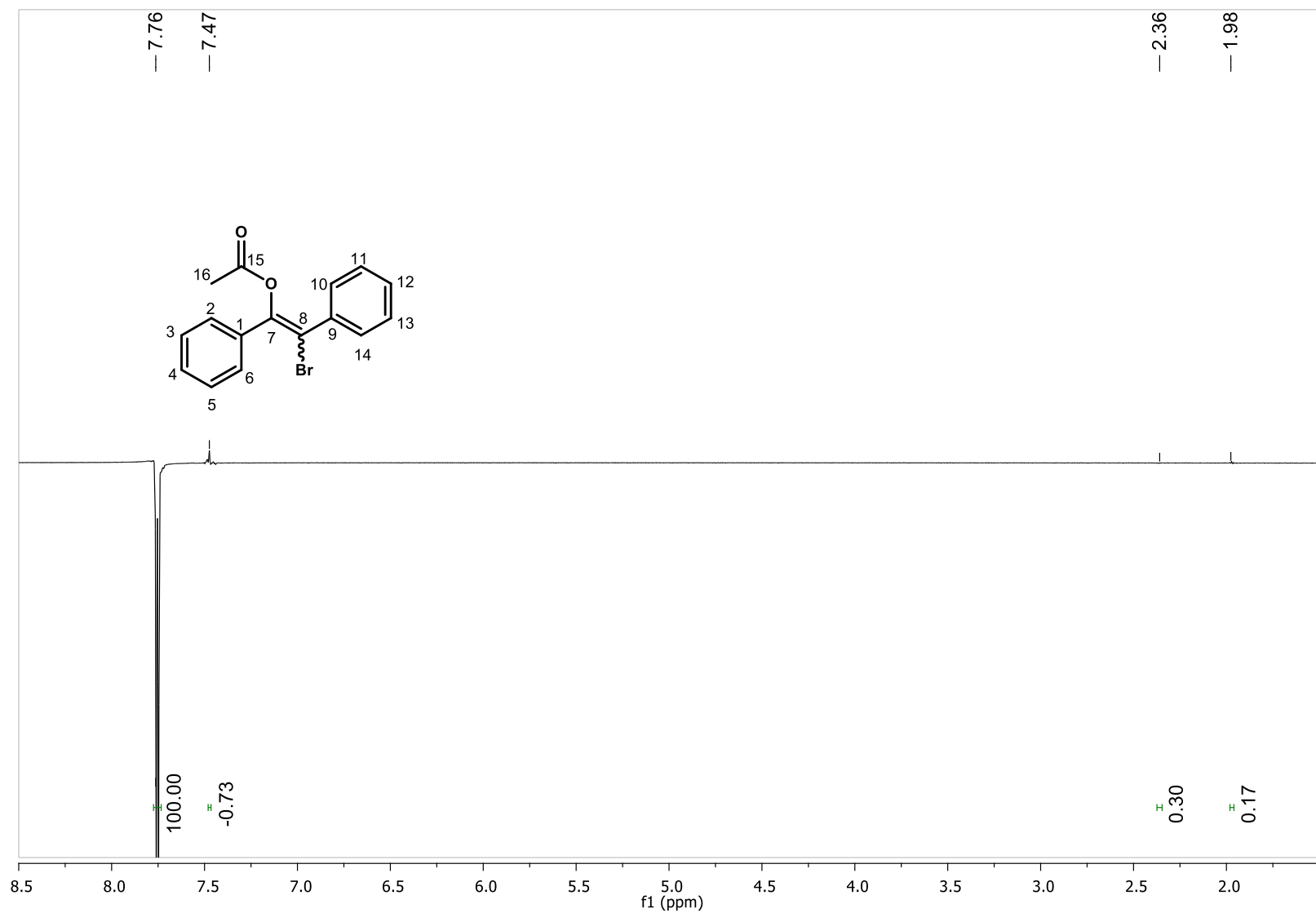
Spectrum S27. NOESY-1D of 2-bromo-1,2-diphenylvinyl acetate – irradiation of H16.



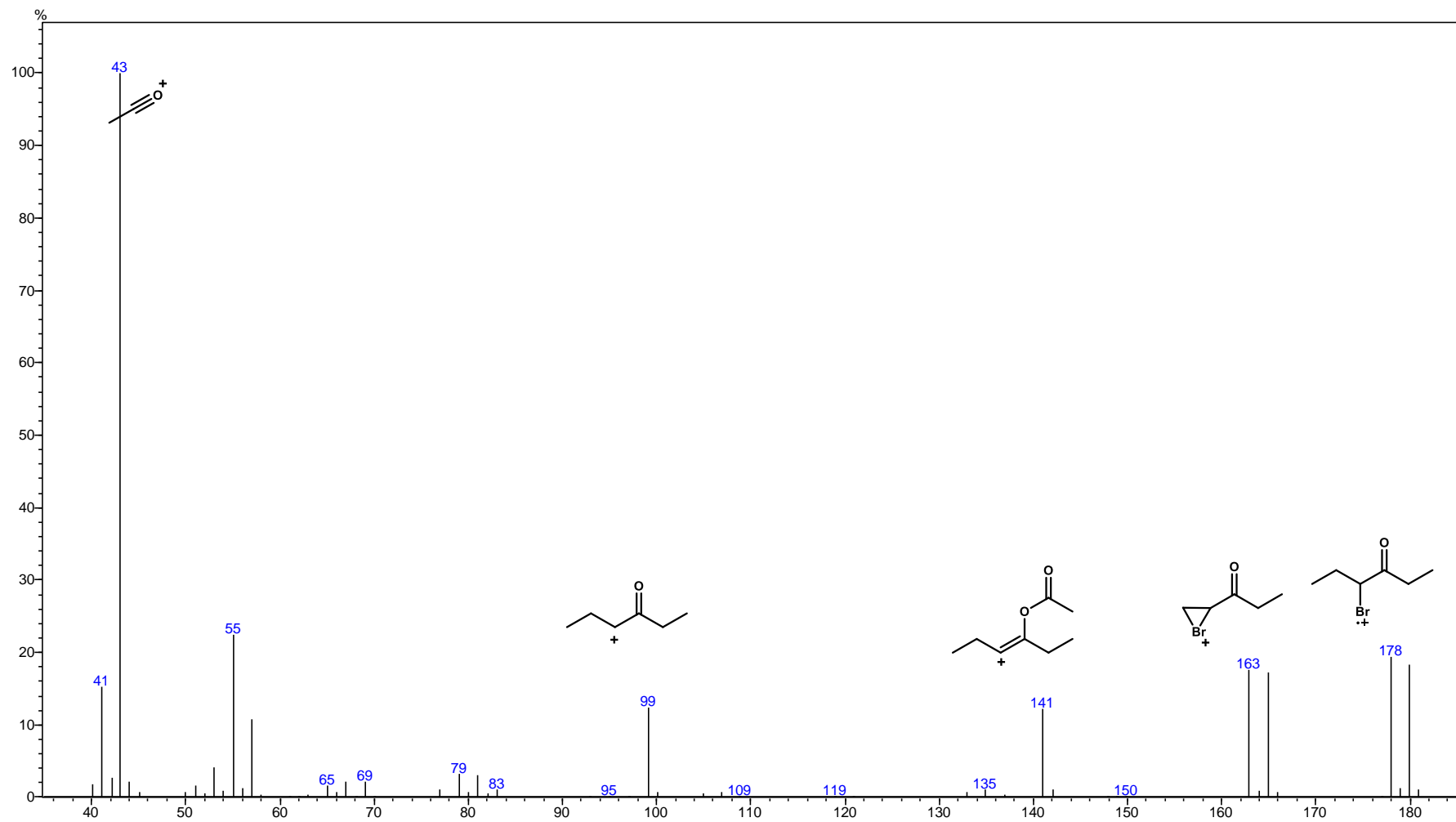
Spectrum S28. NOESY-1D of 2-bromo-1,2-diphenylvinyl acetate – irradiation of H_{16} .



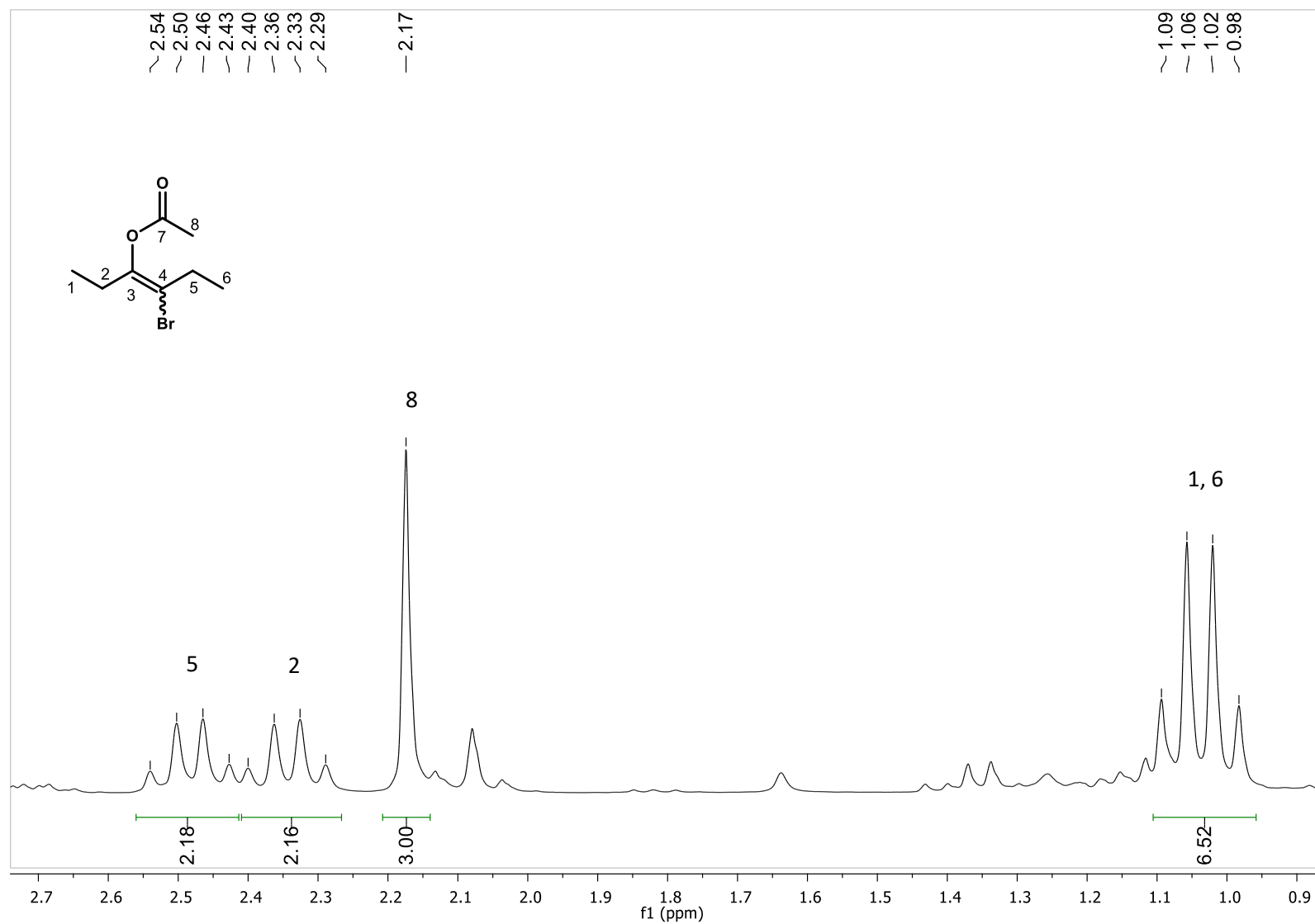
Spectrum S29. NOESY-1D of 2-bromo-1,2-diphenylvinyl acetate – irradiation of H_{Ar} (7,6 ppm).

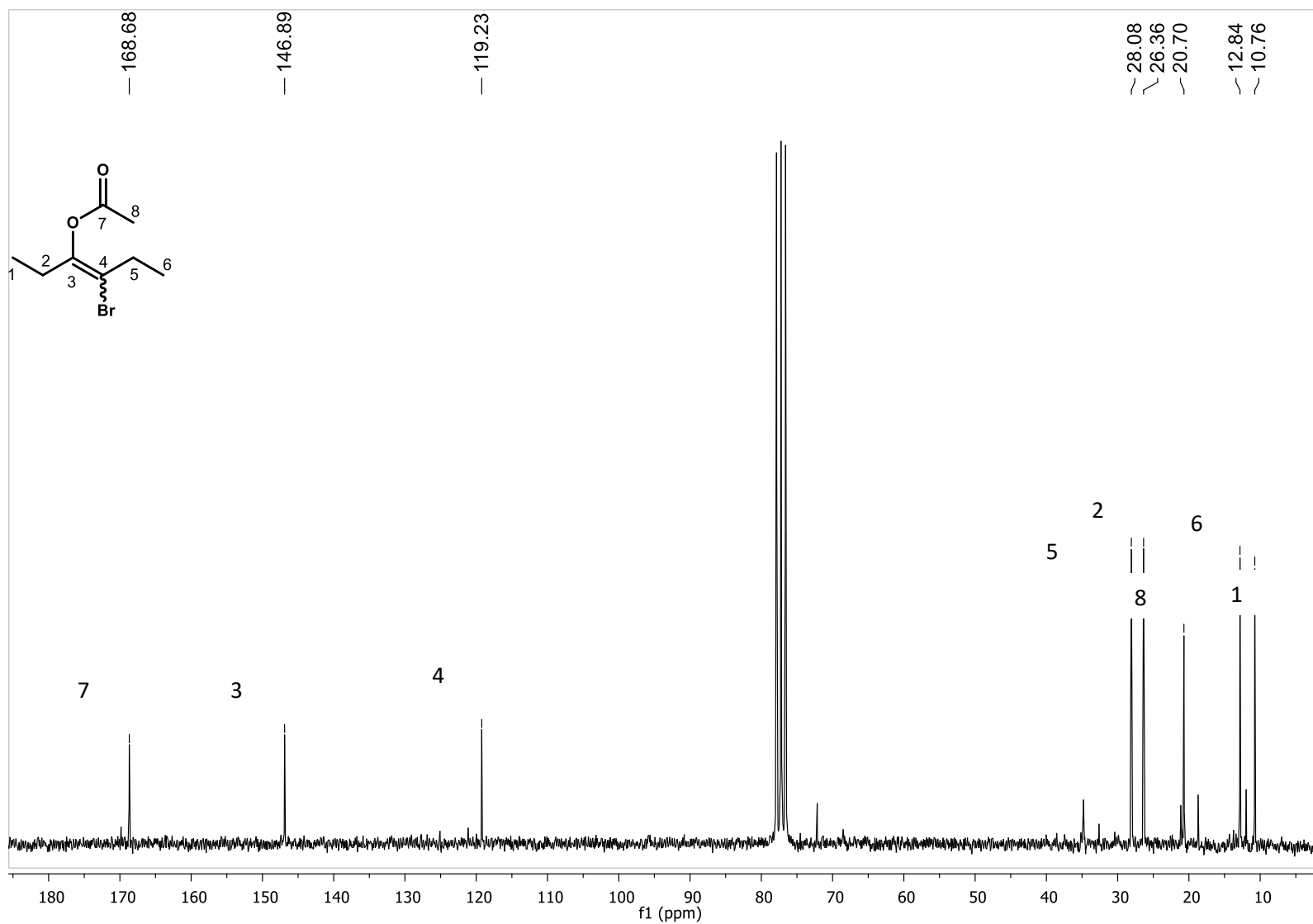


Spectrum S30. NOESY-1D of 2-bromo-1,2-diphenylvinyl acetate – irradiation of H_{Ar} (7,67 ppm).

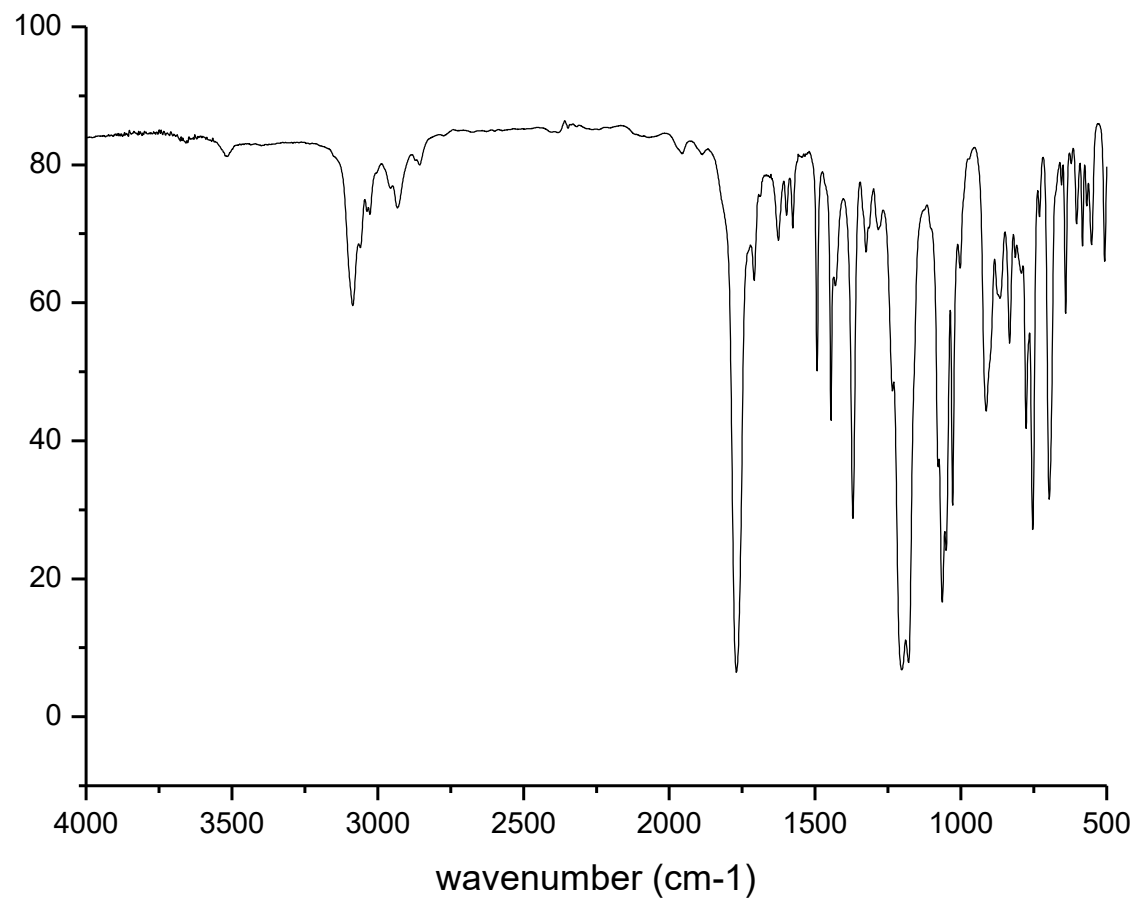


Spectrum S31. MS of 4-bromohex-3-en-3-yl acetate.

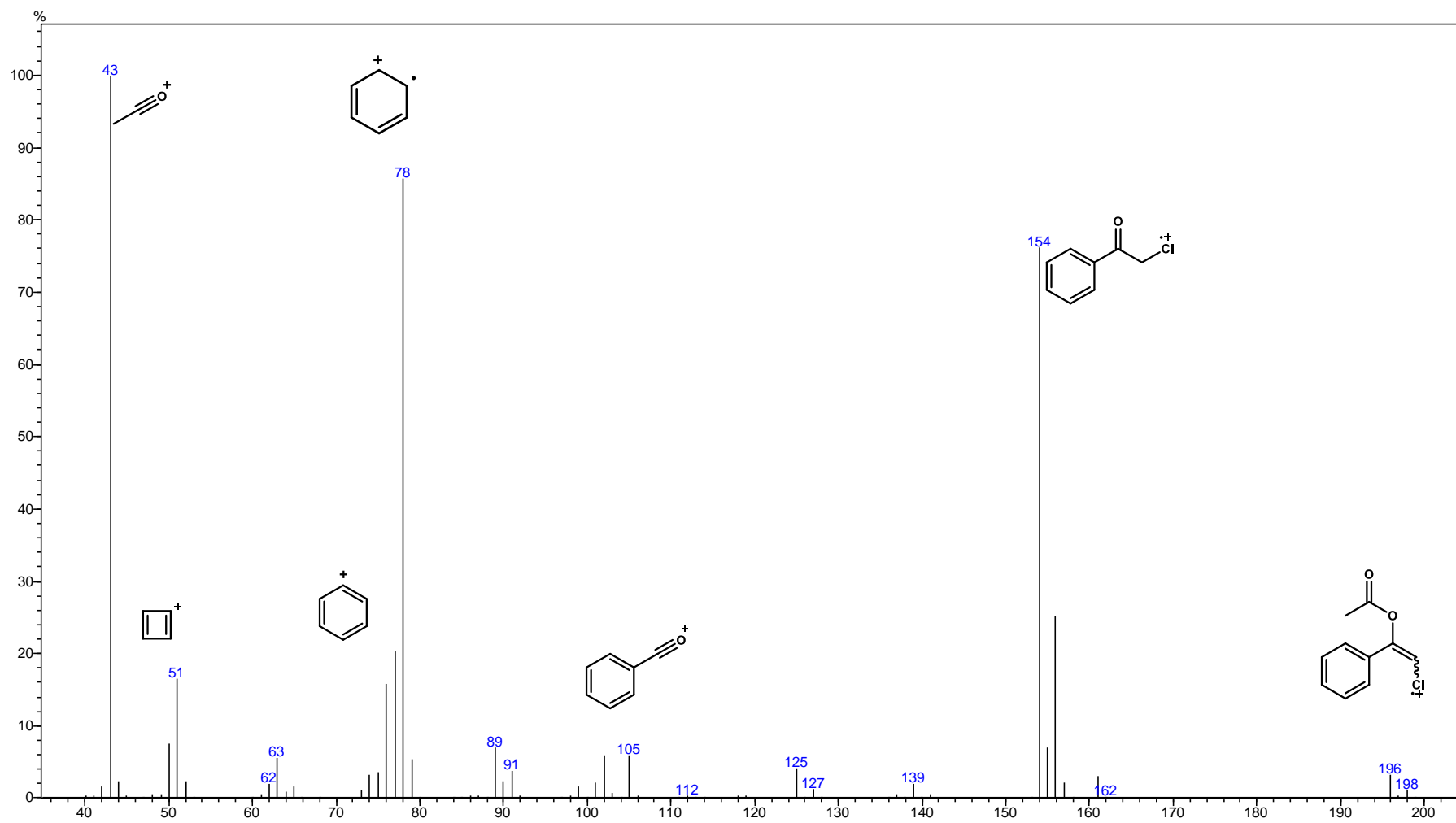
Spectrum S32. ¹H NMR (200MHz) of 4-bromohex-3-en-3-yl acetate.



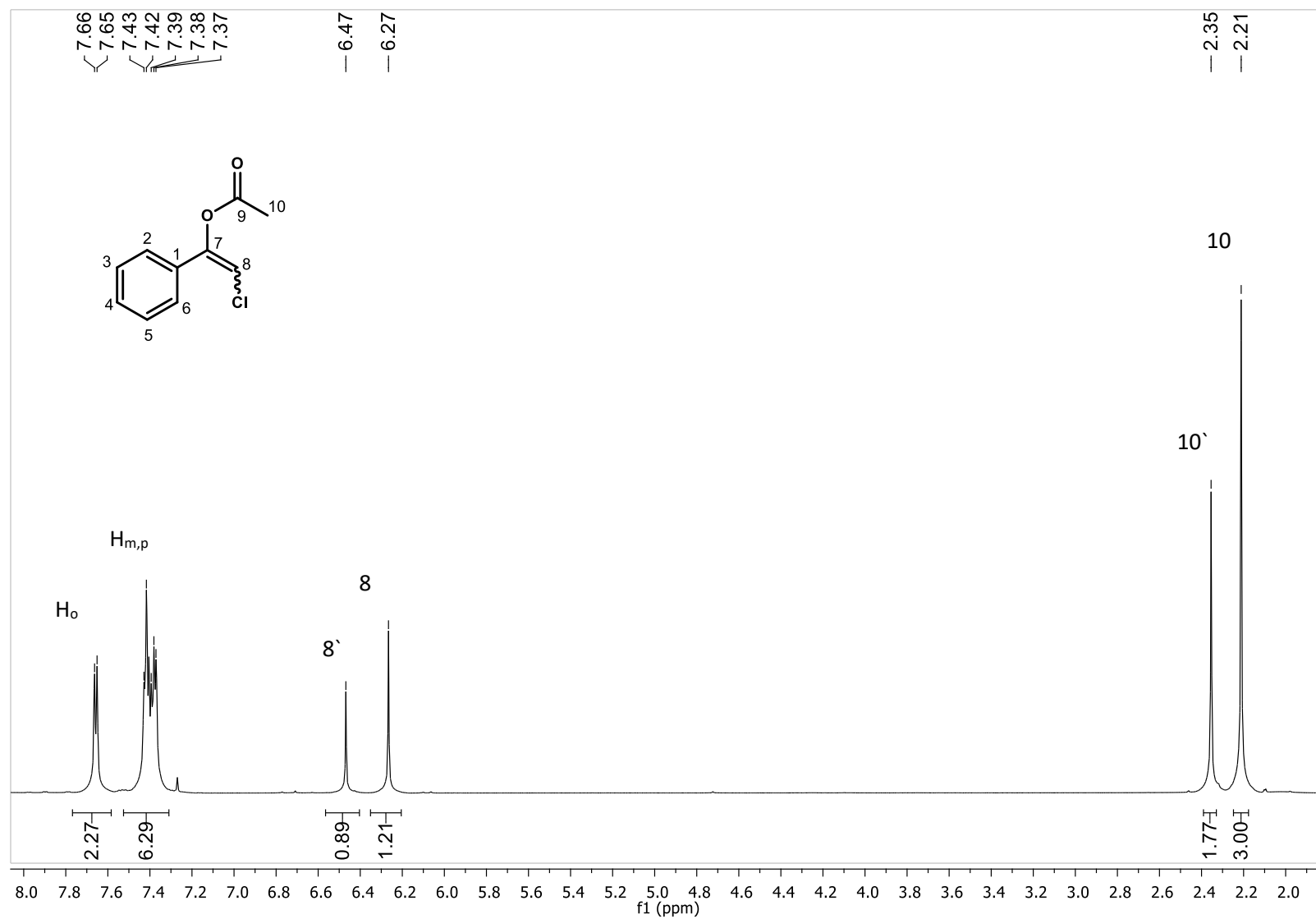
Spectrum S33. ¹³C NMR (75MHz) of 4-bromohex-3-en-3-yl acetate.

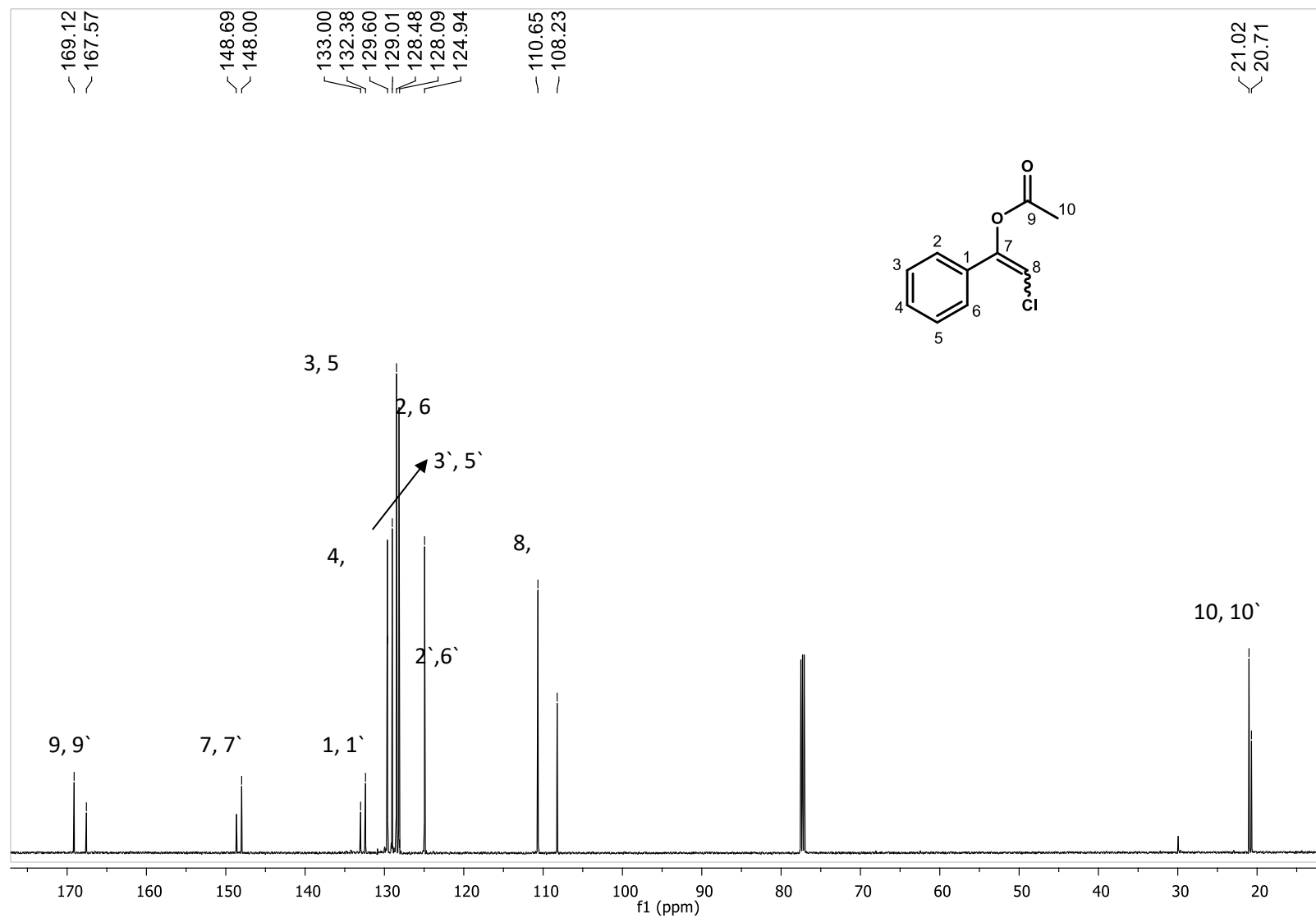


Spectrum S34. IR of 2-chloro-1-phenylvinyl acetate.

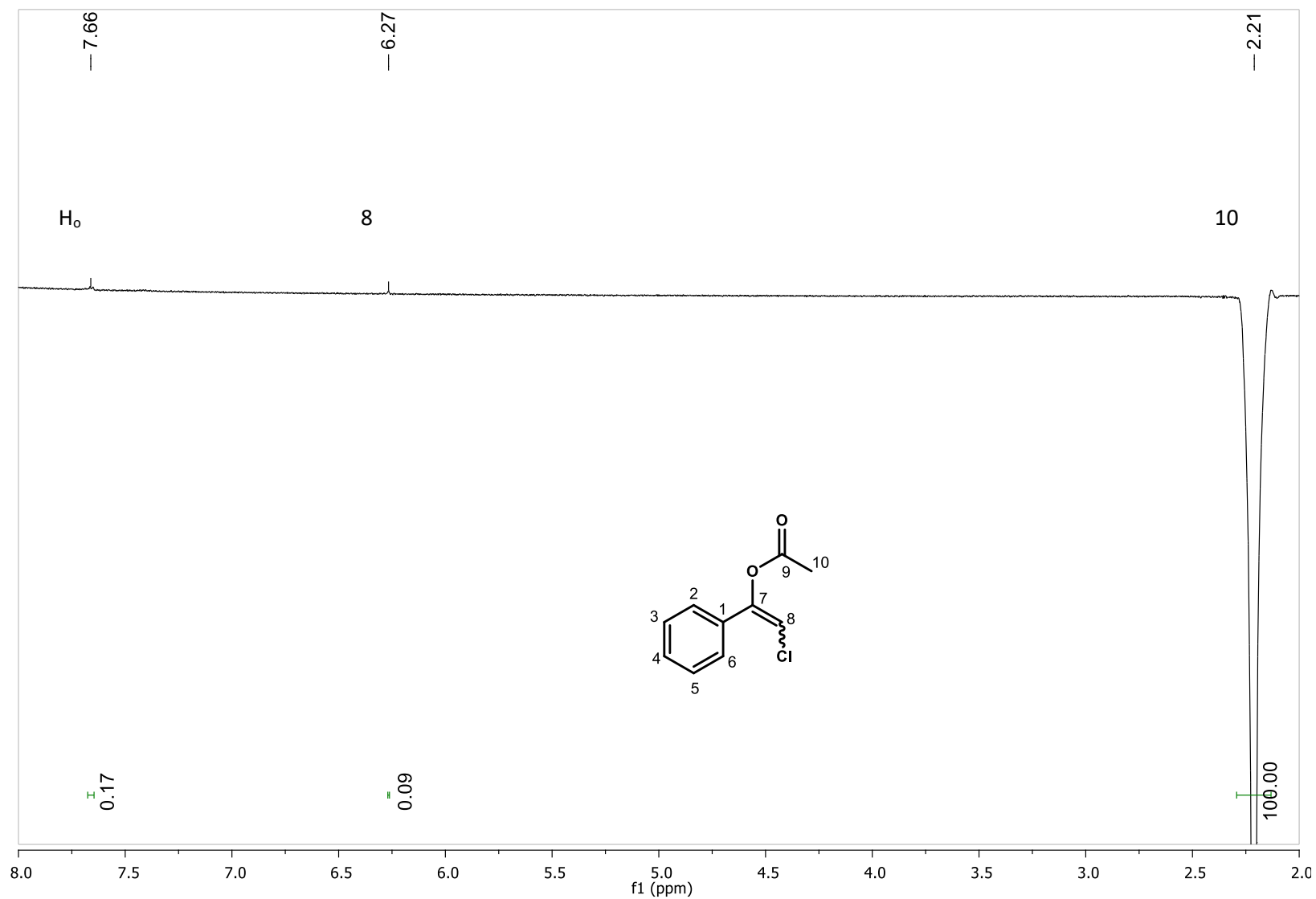


Spectrum S35. MS of 2-chloro-1-phenylvinyl acetate.

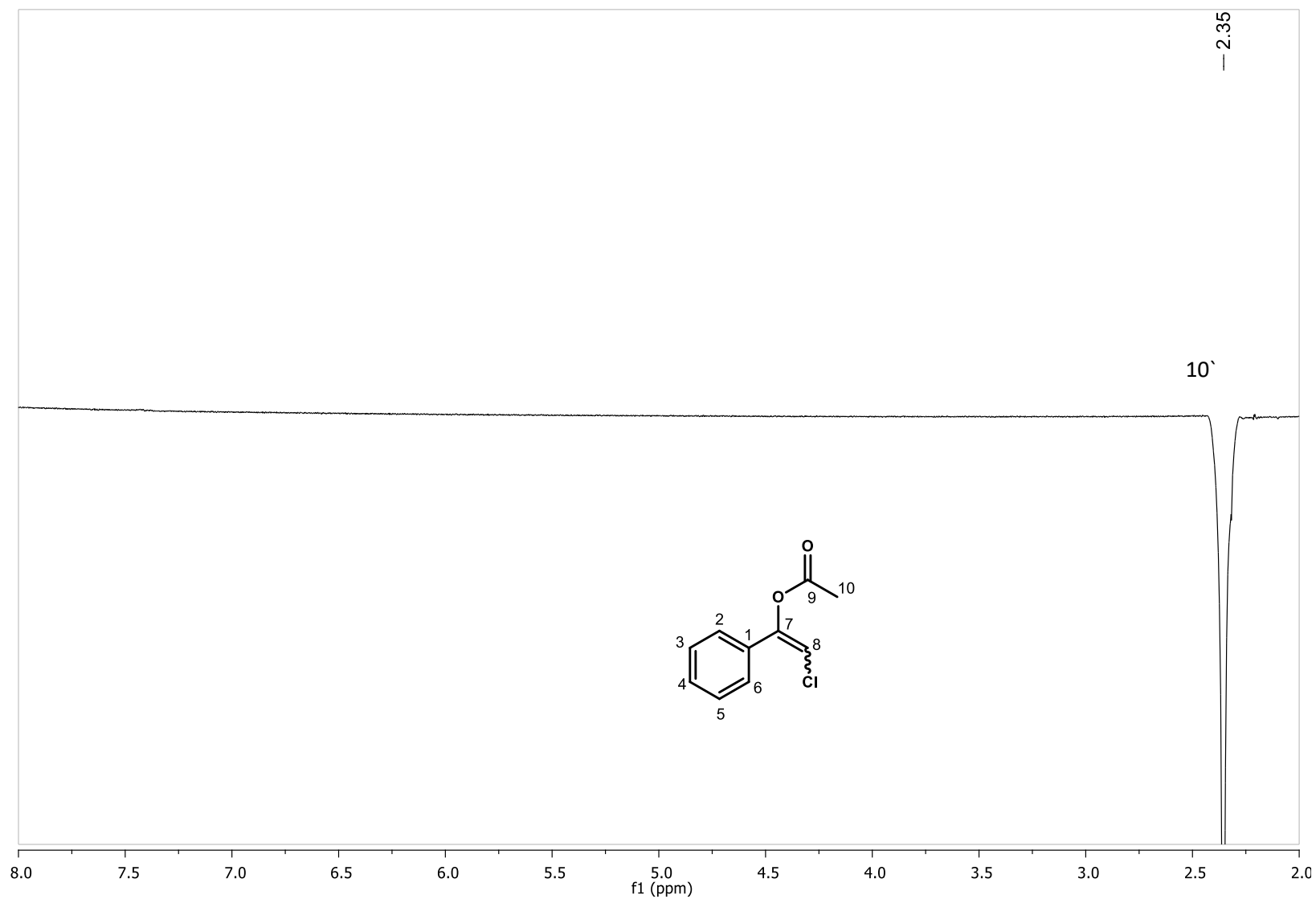
Spectrum S36. ¹H NMR (600MHz) of 2-chloro-1-phenylvinyl acetate.



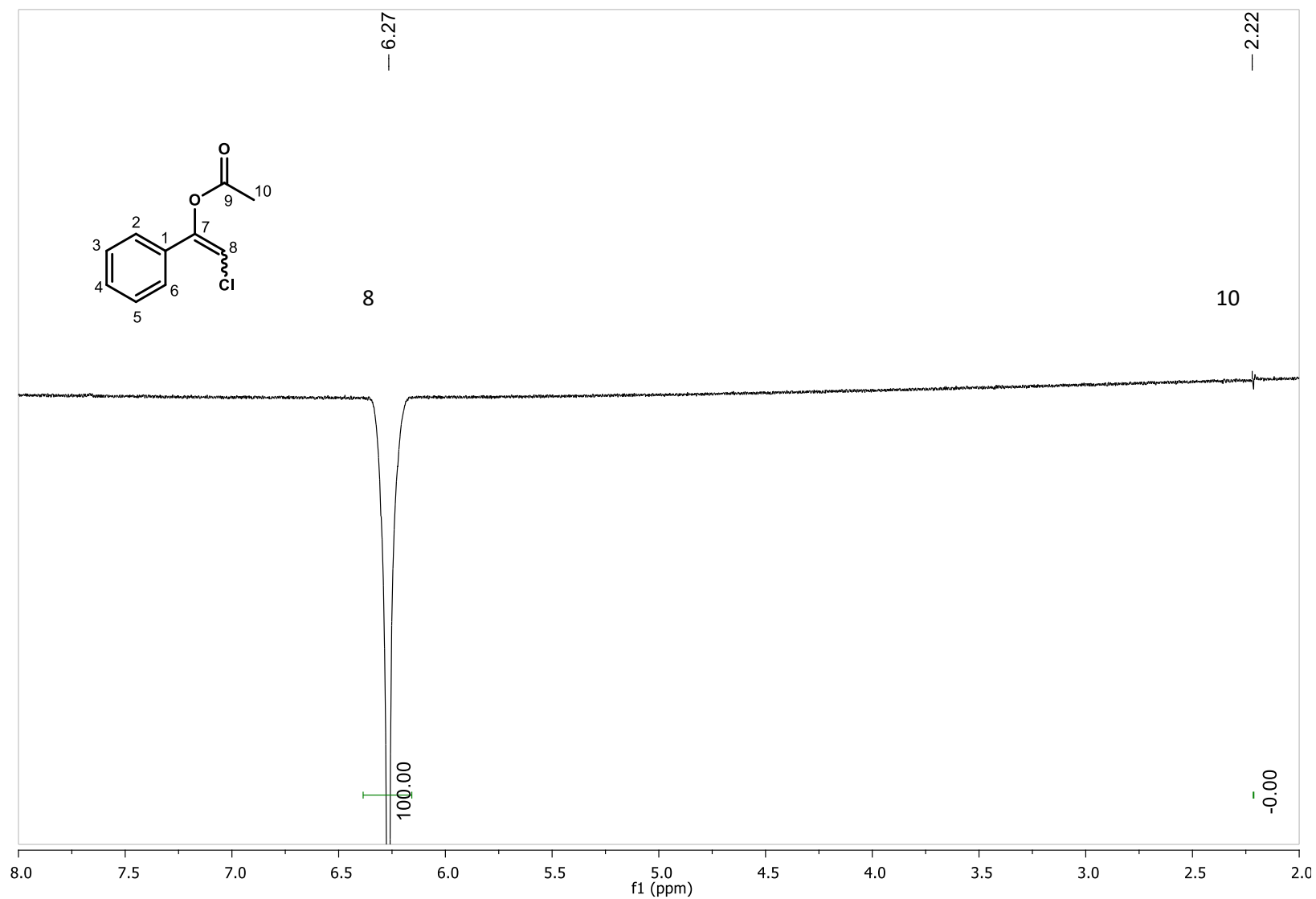
Spectrum S37. 13C NMR (150MHz) 2-chloro-1-phenylvinyl acetate.



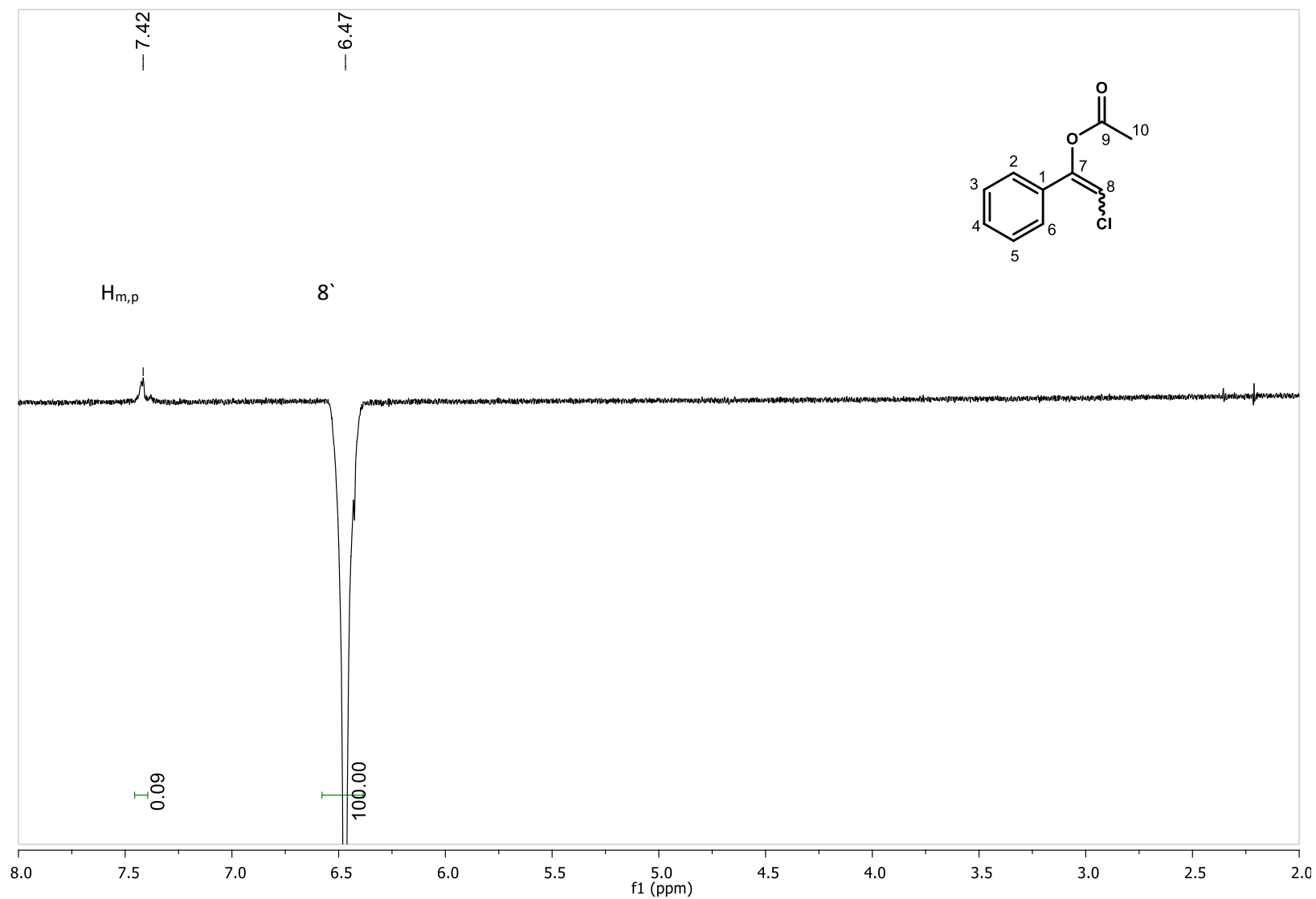
Spectrum S38. NOESY-1D of 2-chloro-1-phenylvinyl acetate – irradiation of H10.



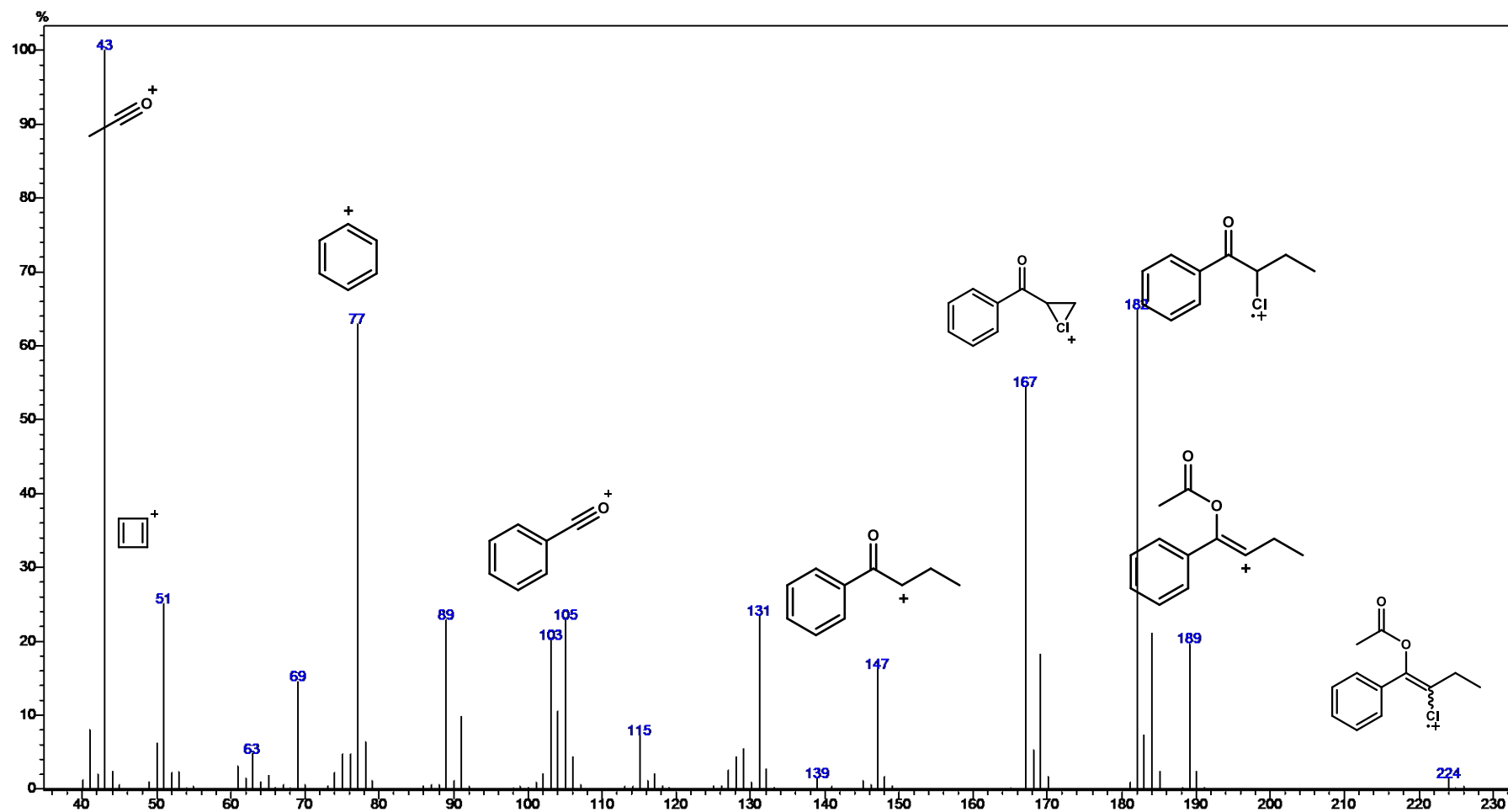
Spectrum S39. NOESY-1D of 2-chloro-1-phenylvinyl acetate – irradiation H10`.



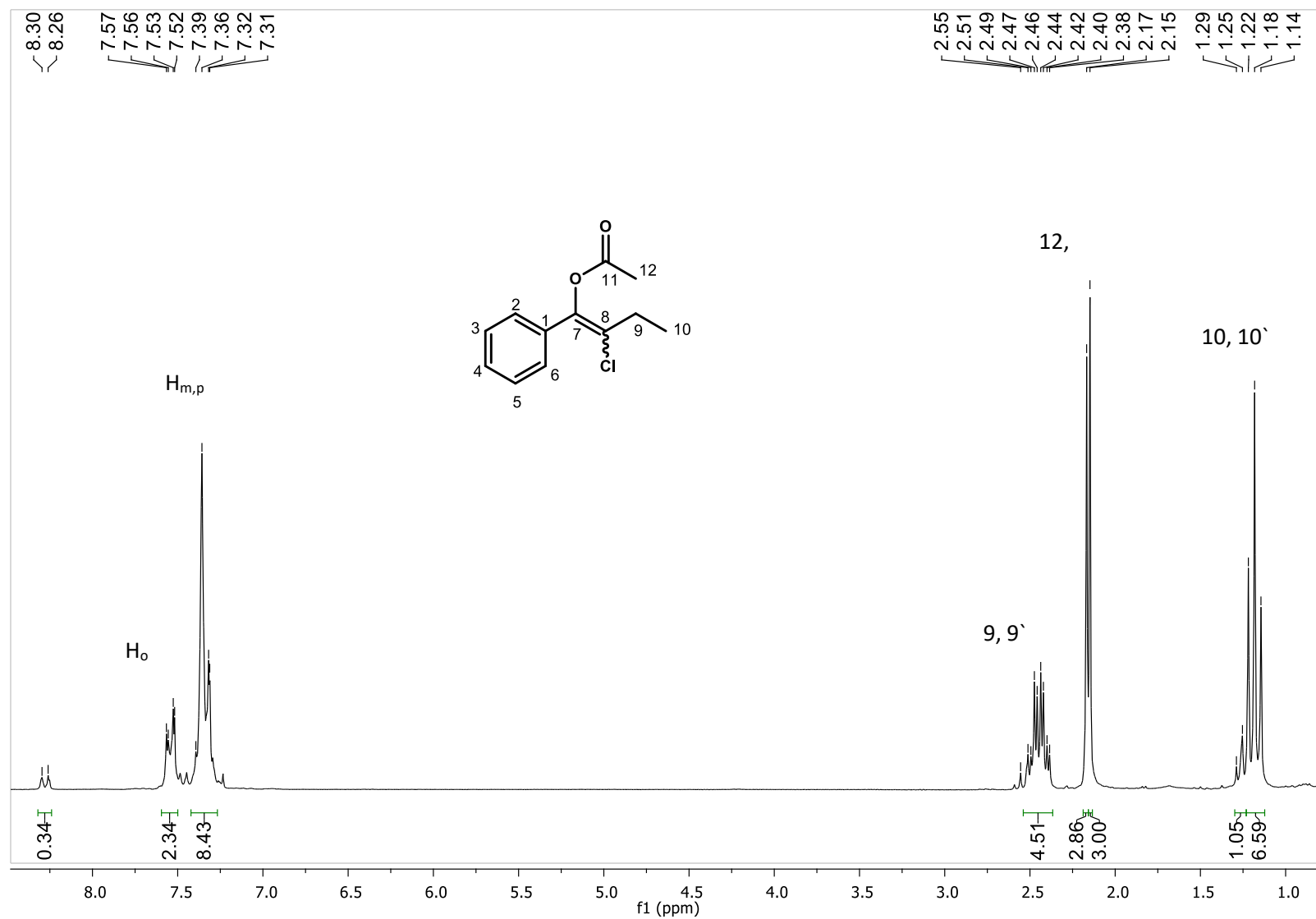
Spectrum S40. NOESY-1D of 2-chloro-1-phenylvinyl acetate – irradiation H8.

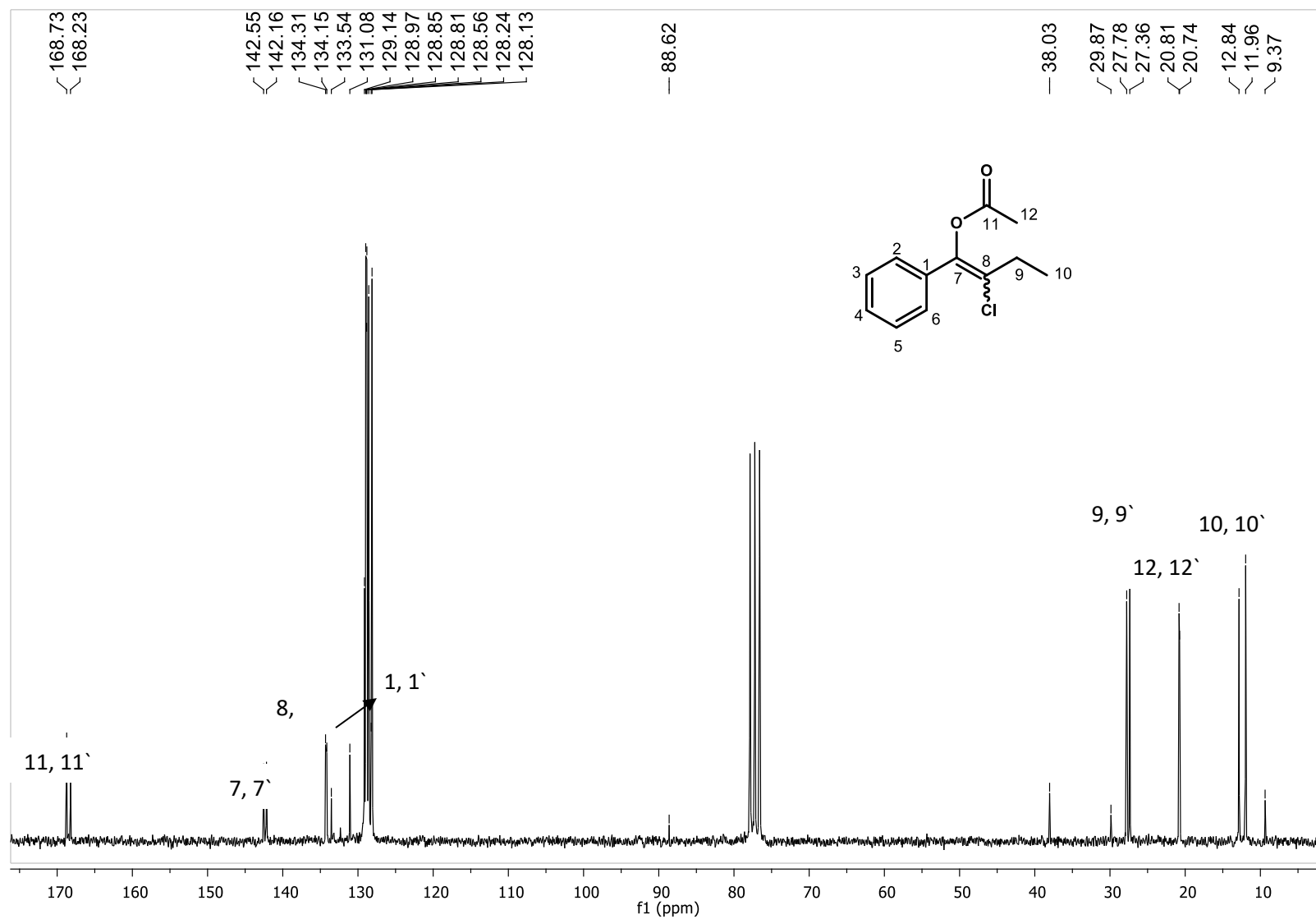


Spectrum S41. NOESY-1D of 2-chloro-1-phenylvinyl acetate – irradiation $H_{8'}$.

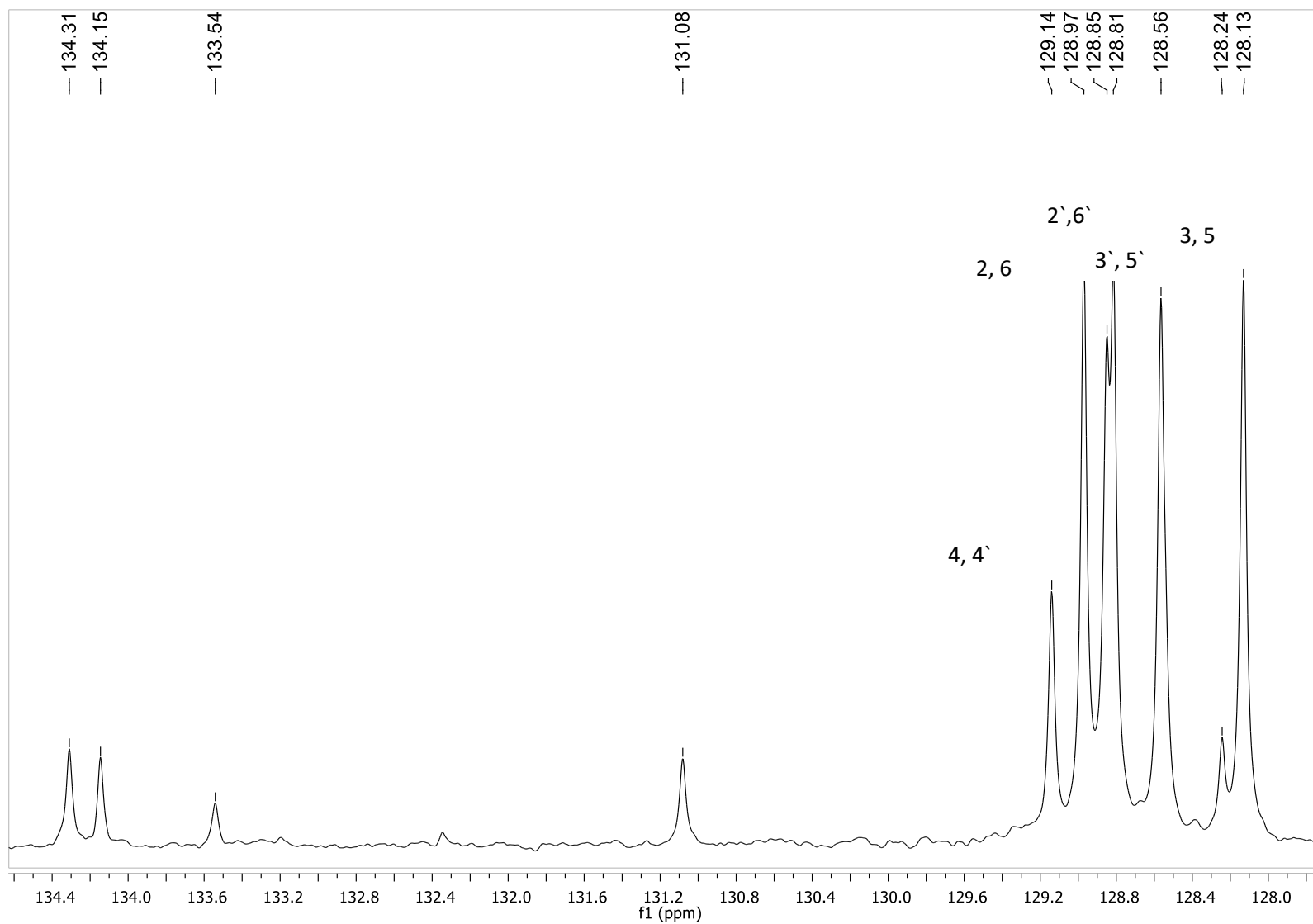


Spectrum S42. MS of 2-chloro-1-phenylbut-1-en-1-yl acetate.

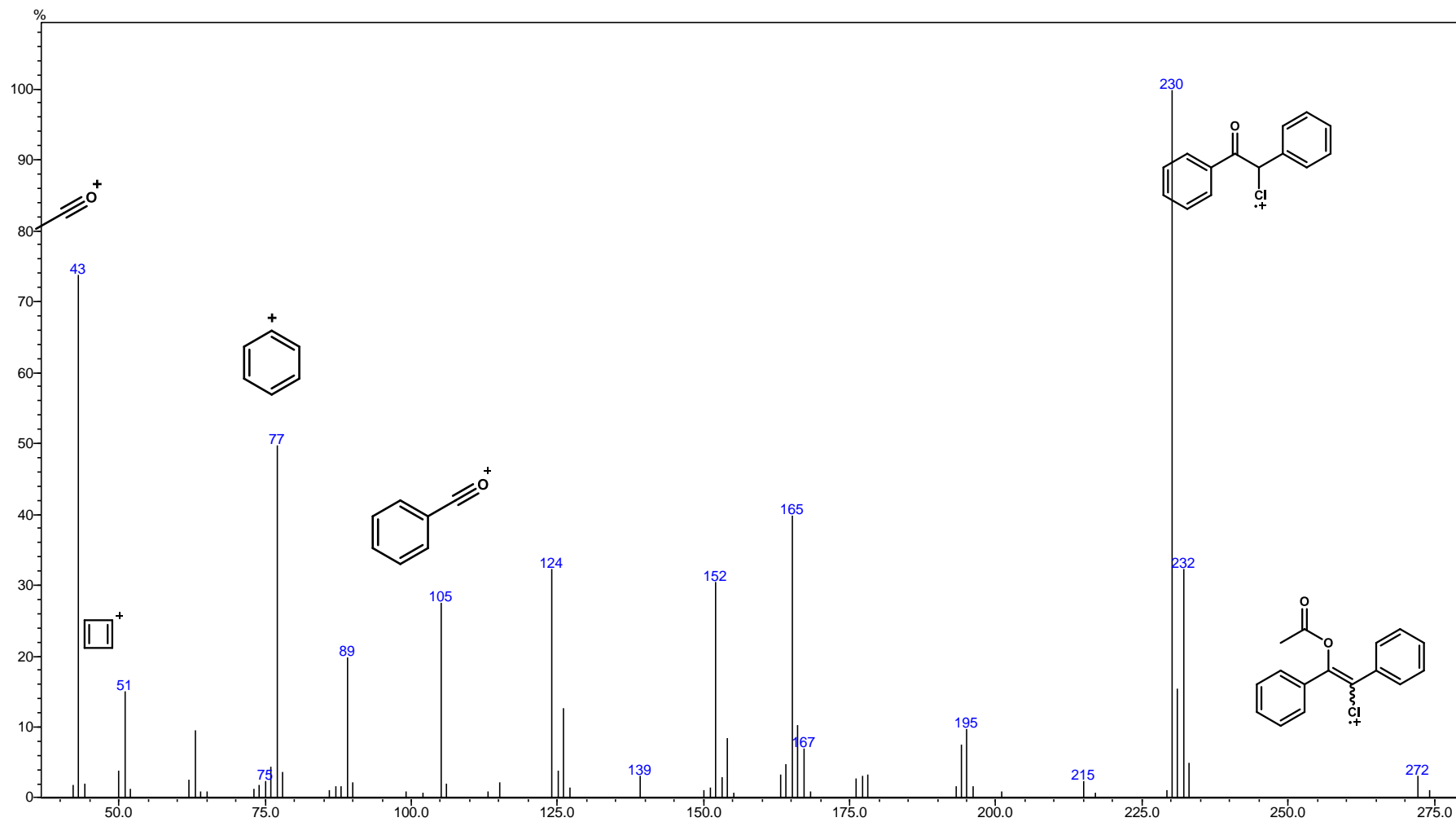
Spectrum S43. ¹H NMR (200MHz) of 2-chloro-1-phenylbut-1-en-1-yl acetate.



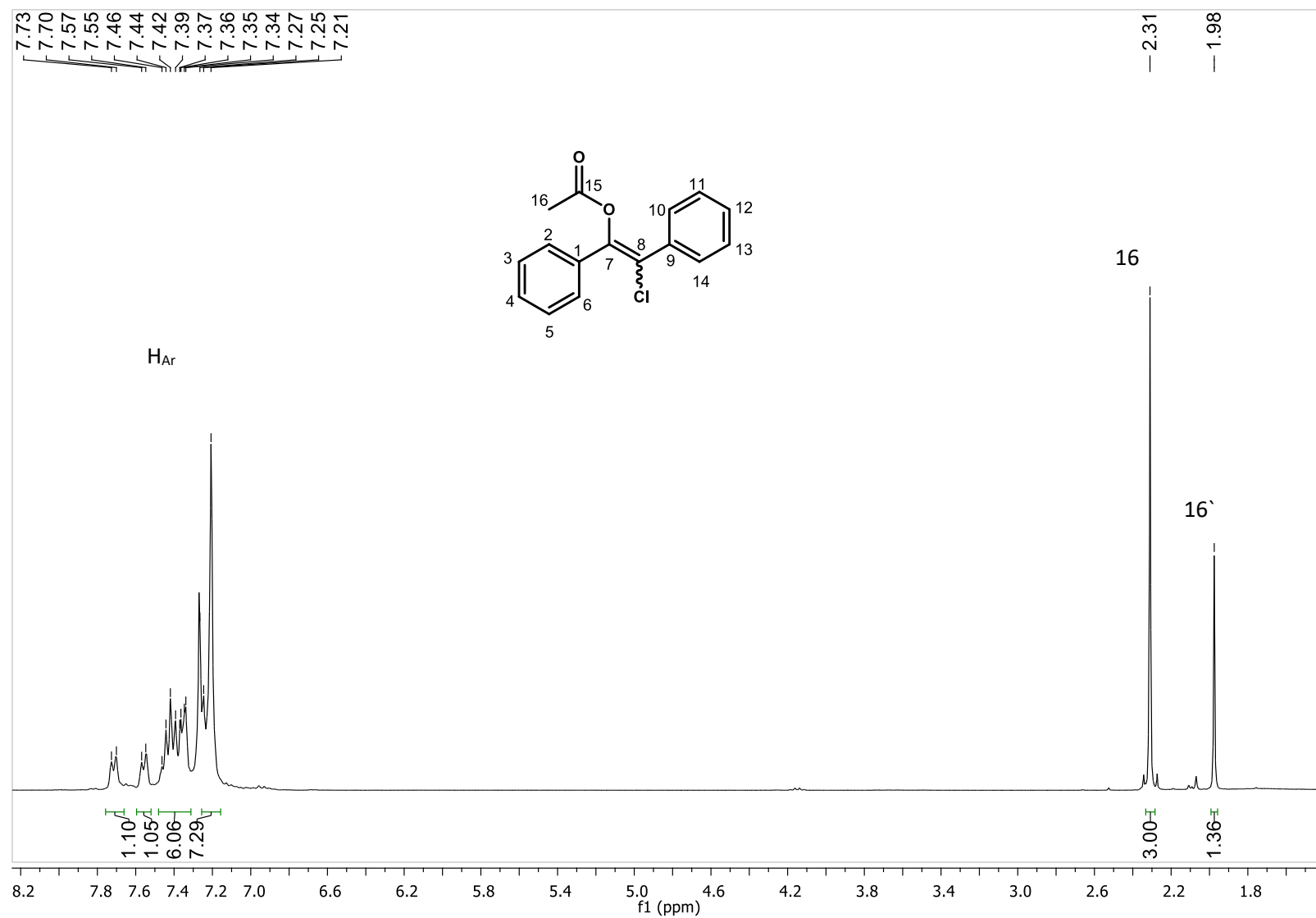
Spectrum S44. ¹³C NMR (75MHz) of 2-chloro-1-phenylbut-1-en-1-yl acetate.

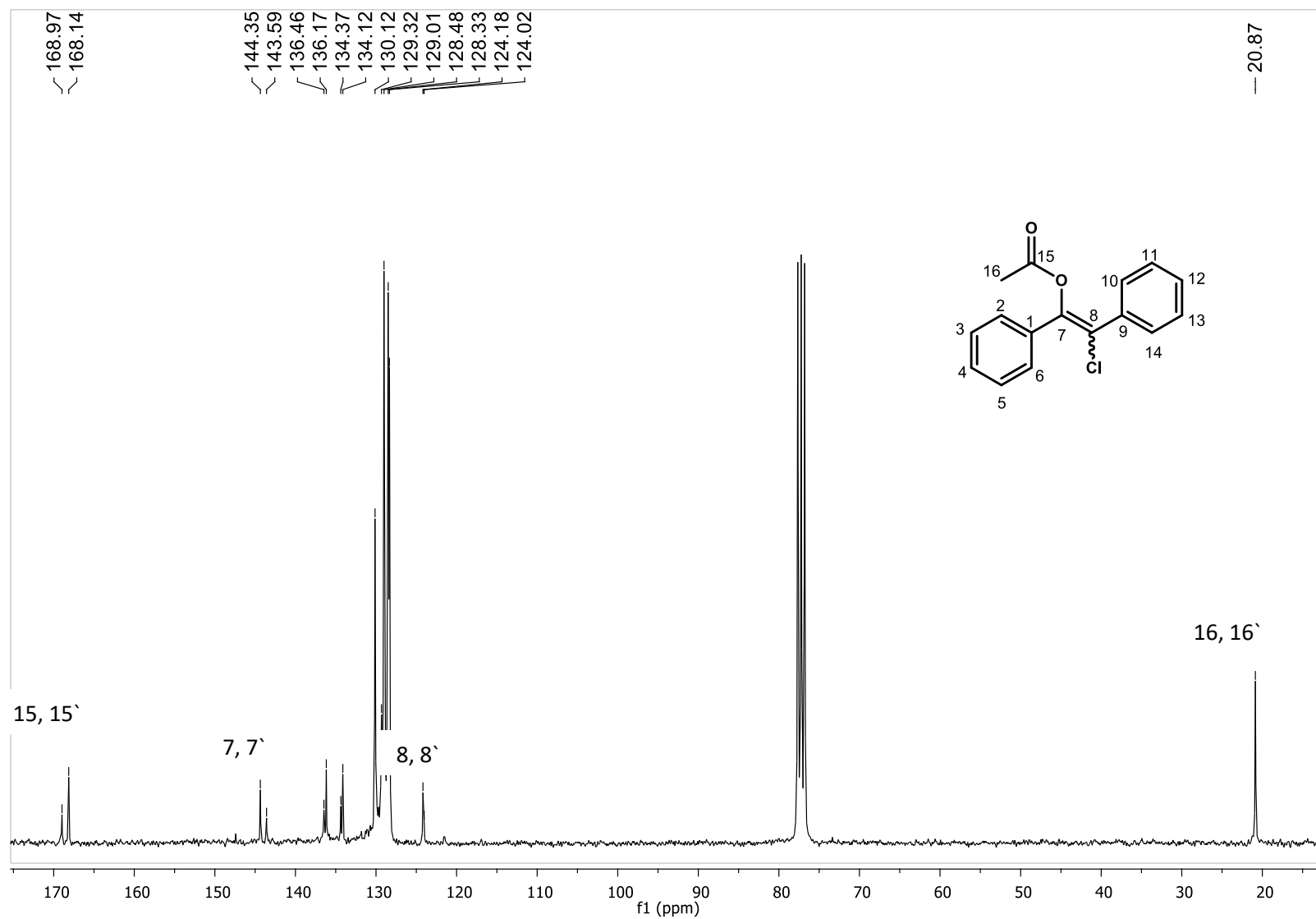


Spectrum S45. Expansion of ^{13}C NMR of 2-chloro-1-phenylbut-1-en-1-yl acetate.

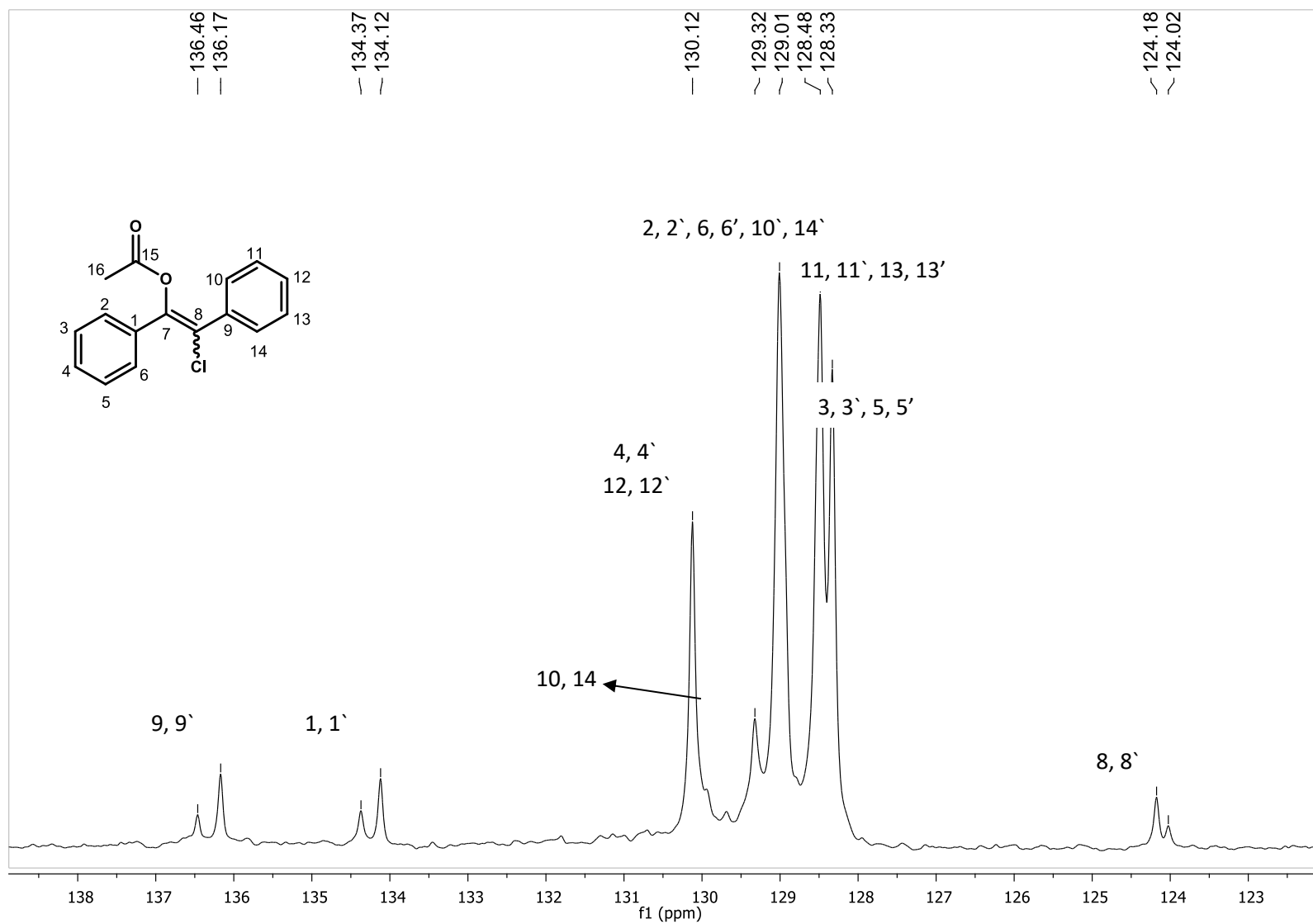


Spectrum S46. MS of 2-chloro-1,2-diphenylvinyl acetate.

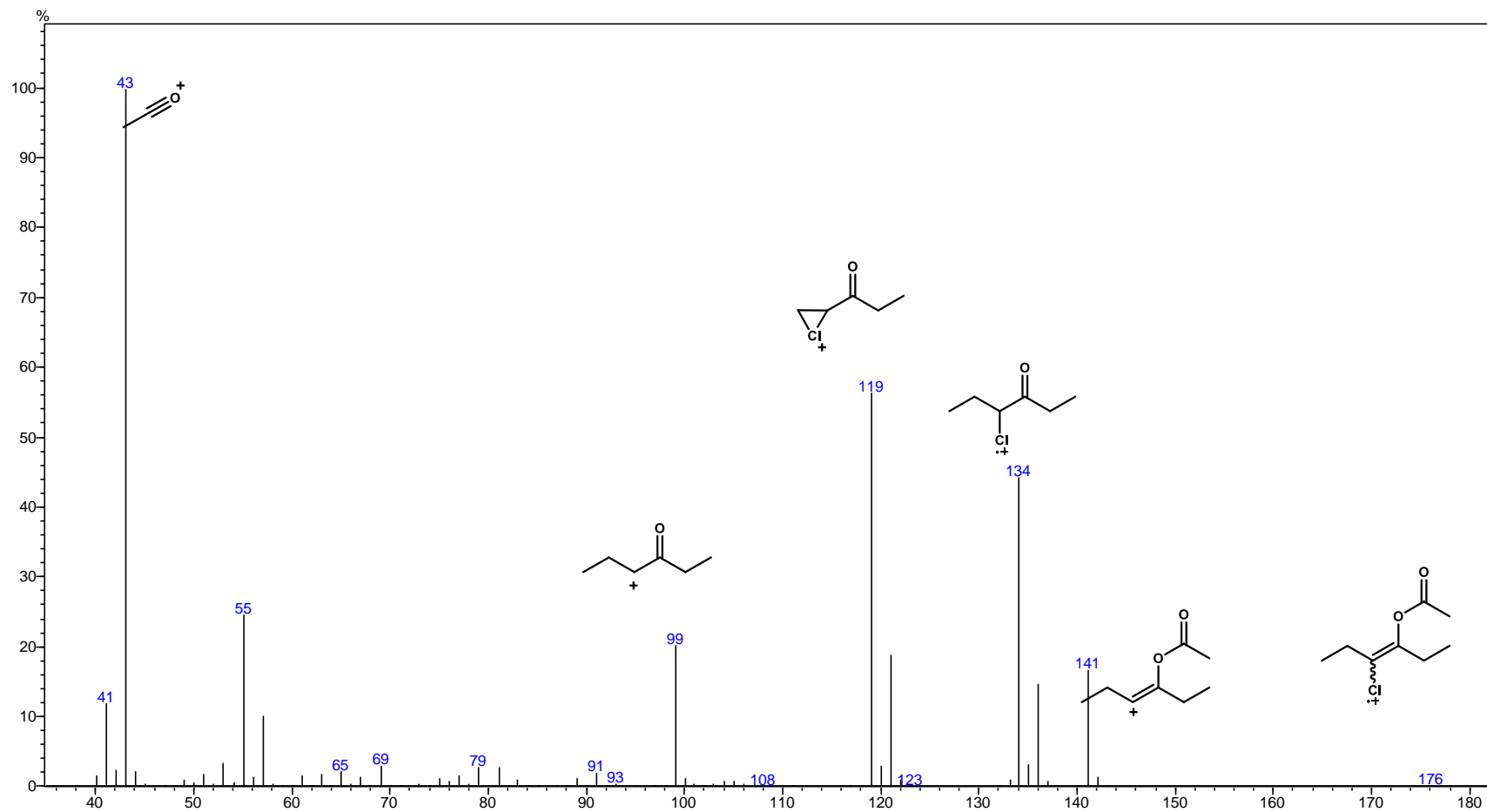
Spectrum S47. ^1H NMR (300MHz) of 2-chloro-1,2-diphenylvinyl acetate.



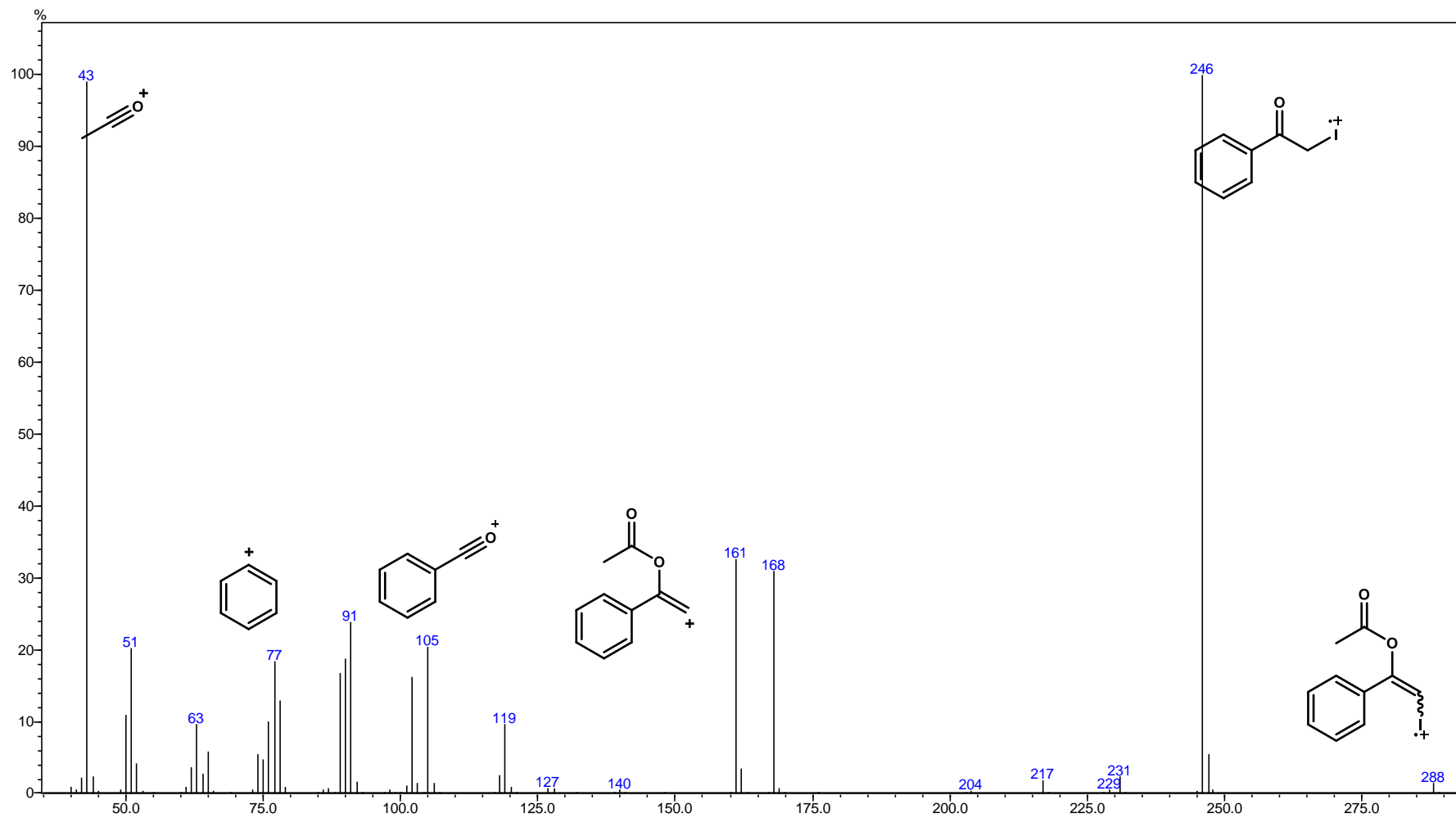
Spectrum S48. ^{13}C NMR (75MHz) of 2-chloro-1,2-diphenylvinyl acetate.



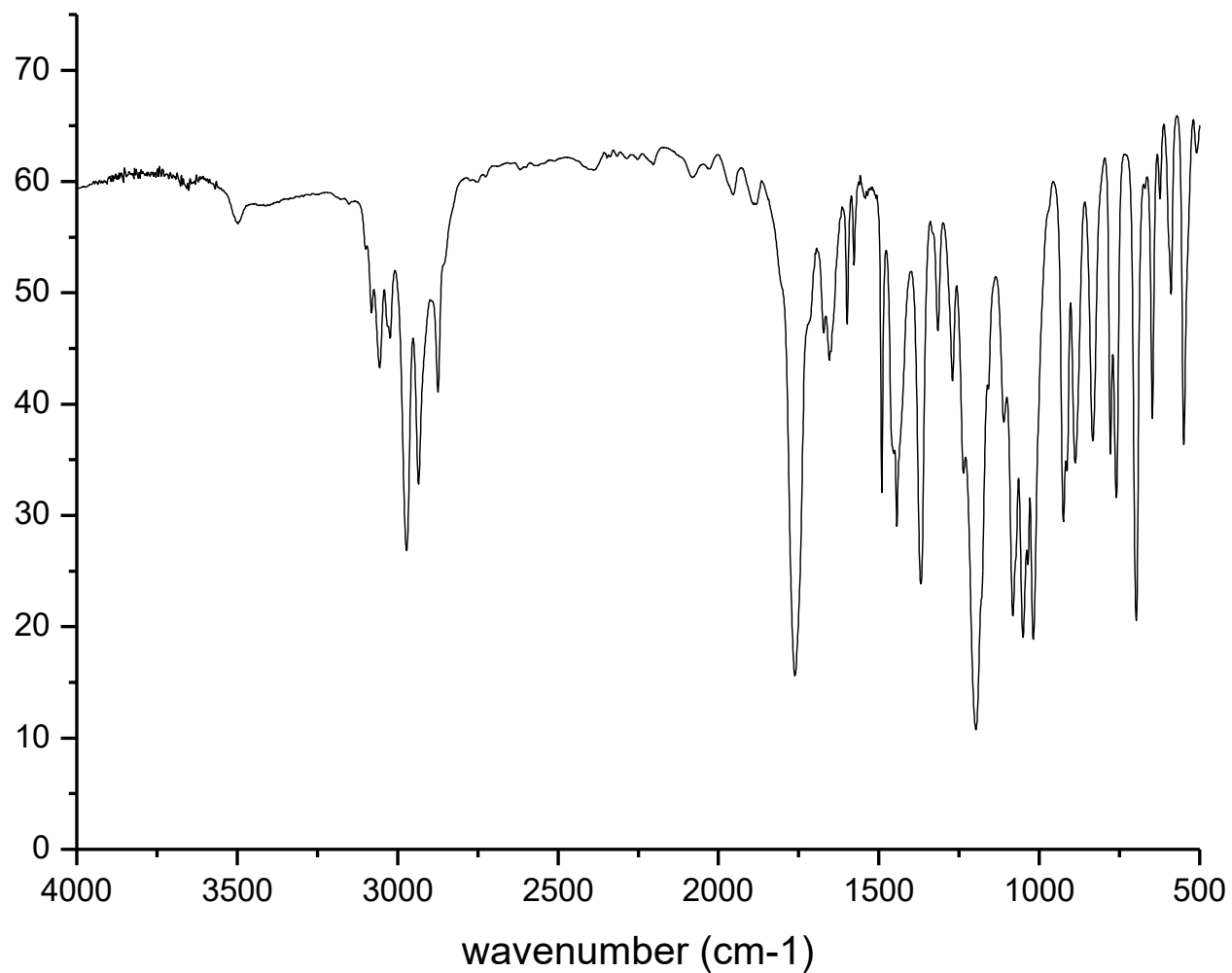
Spectrum S49. Expansion of ¹³C NMR of 2-chloro-1,2-diphenylvinyl acetate.



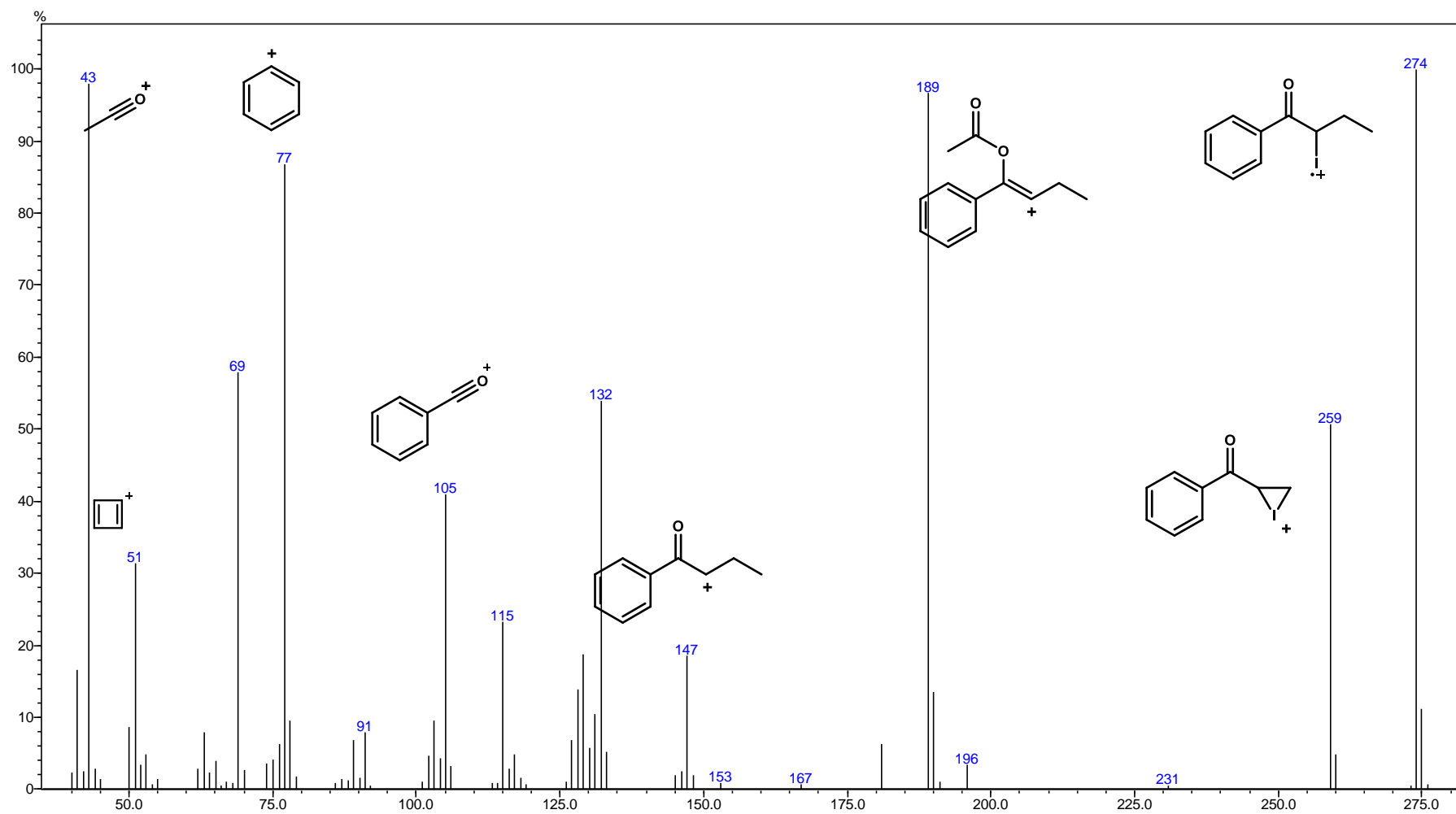
Spectrum S50. MS of 4-chlorohex-3-en-3-yl acetate.



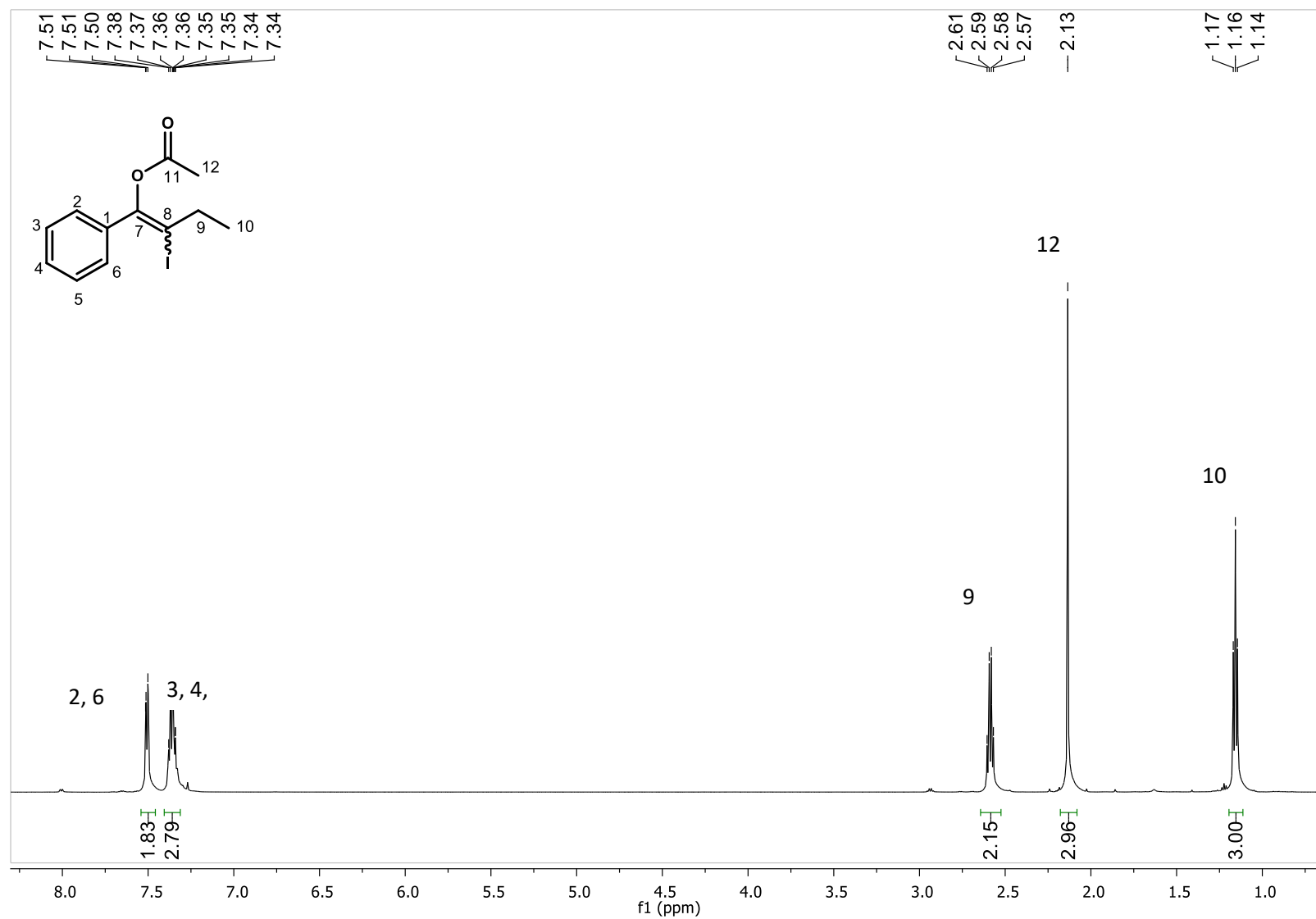
Spectrum S51. MS of 2-iodo-1-phenylvinyl acetate.



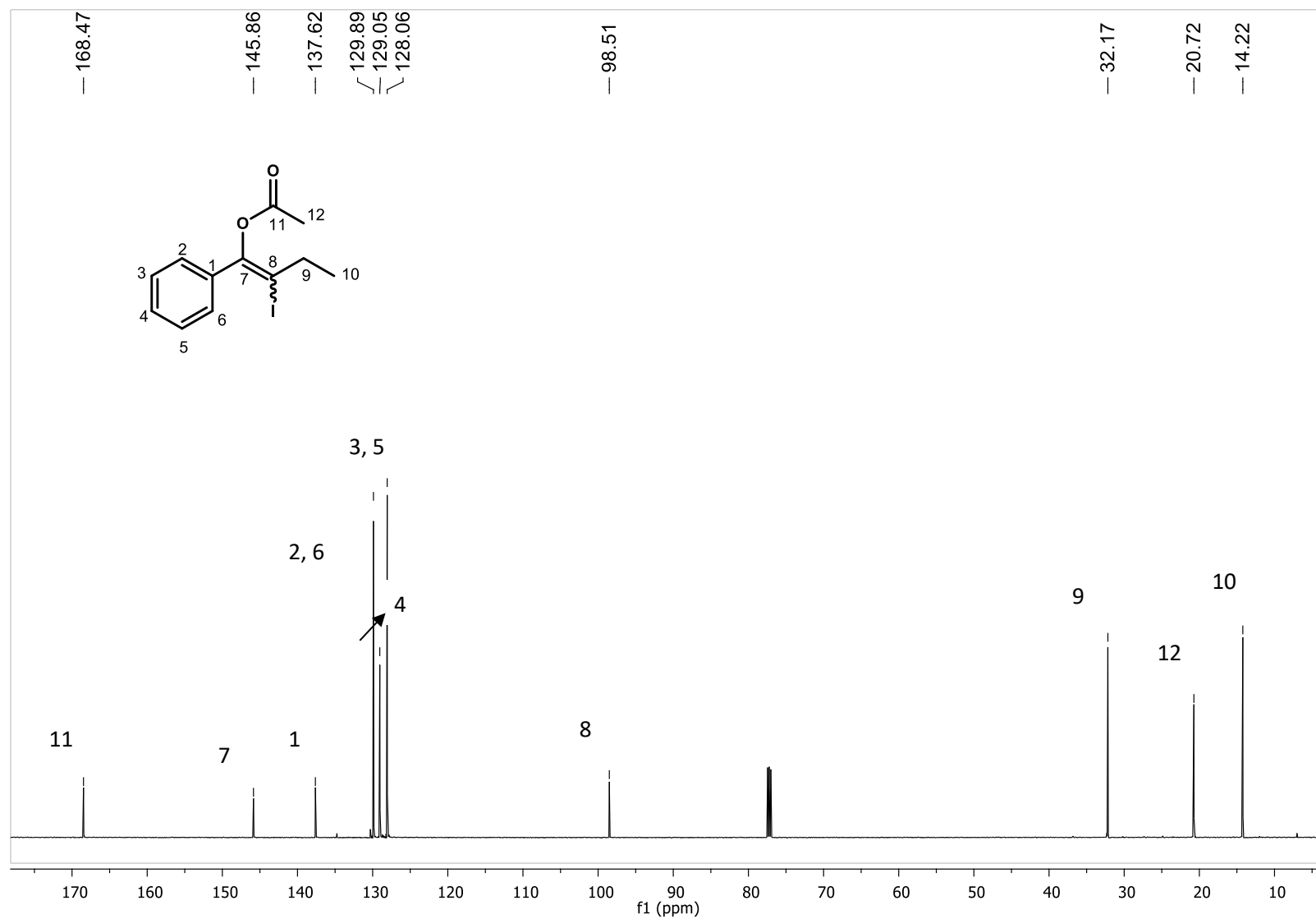
Spectrum S52. IR of 2-iodo-1-phenylbut-1-en-1-yl acetate.



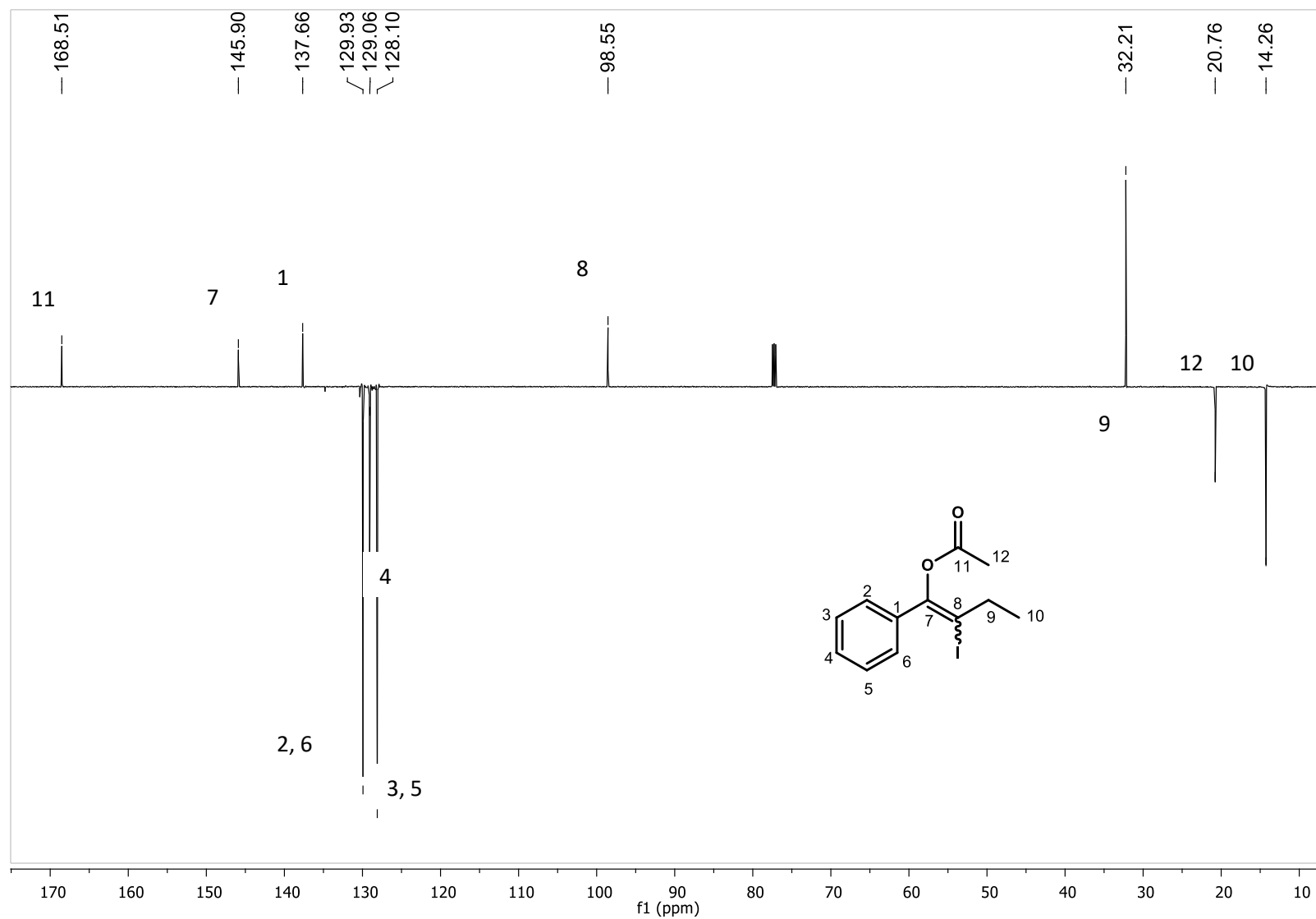
Spectrum S53. MS of 2-iodo-1-phenylbut-1-en-1-yl acetate.



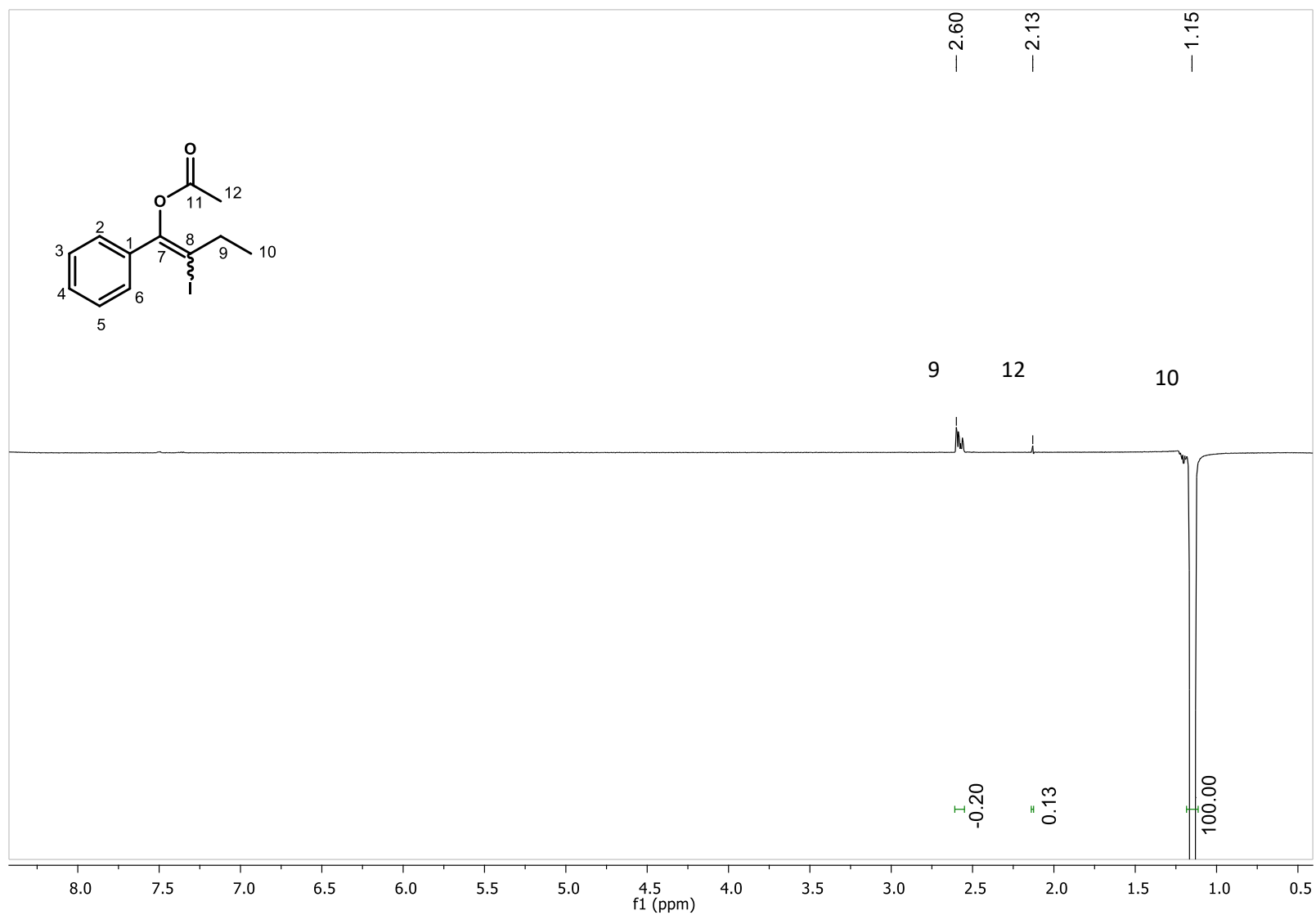
Spectrum S54. ¹H NMR (600MHz) of 2-iodo-1-phenylbut-1-en-1-yl acetate.



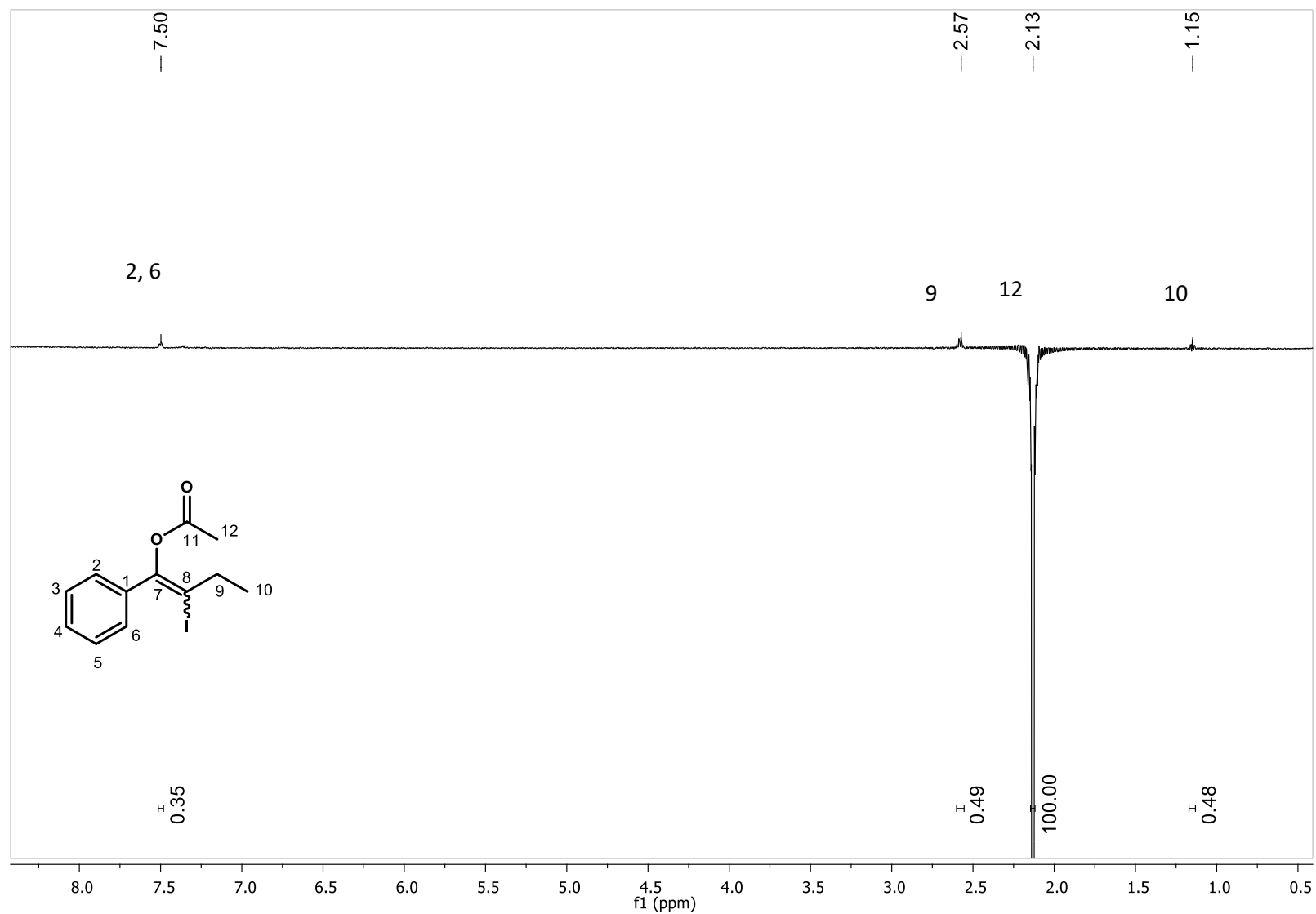
Spectrum S55. ¹³C NMR (150MHz) of 2-iodo-1-phenylbut-1-en-1-yl acetate.



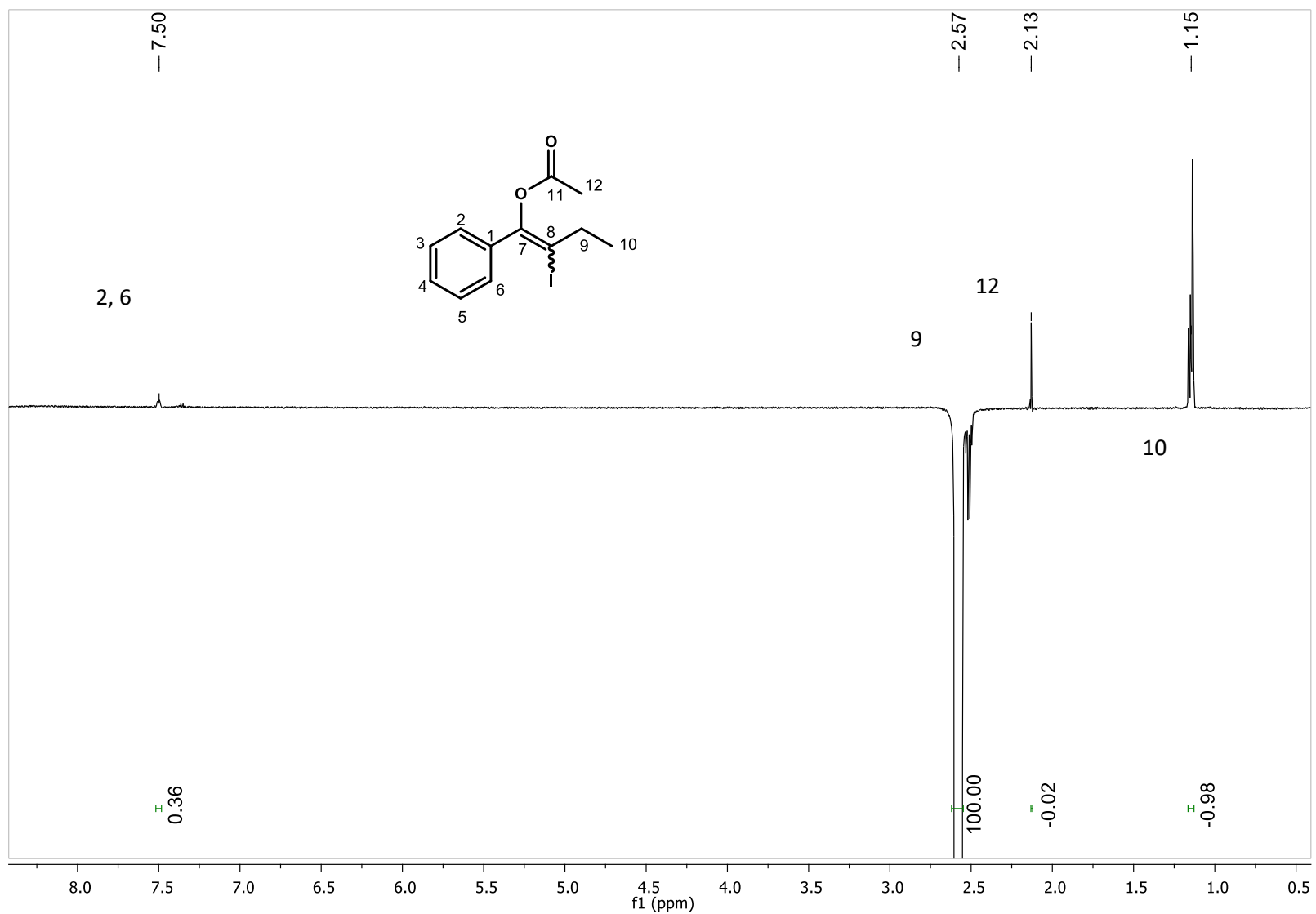
Spectrum S56. APT of 2-iodo-1-phenylbut-1-en-1-yl acetate.



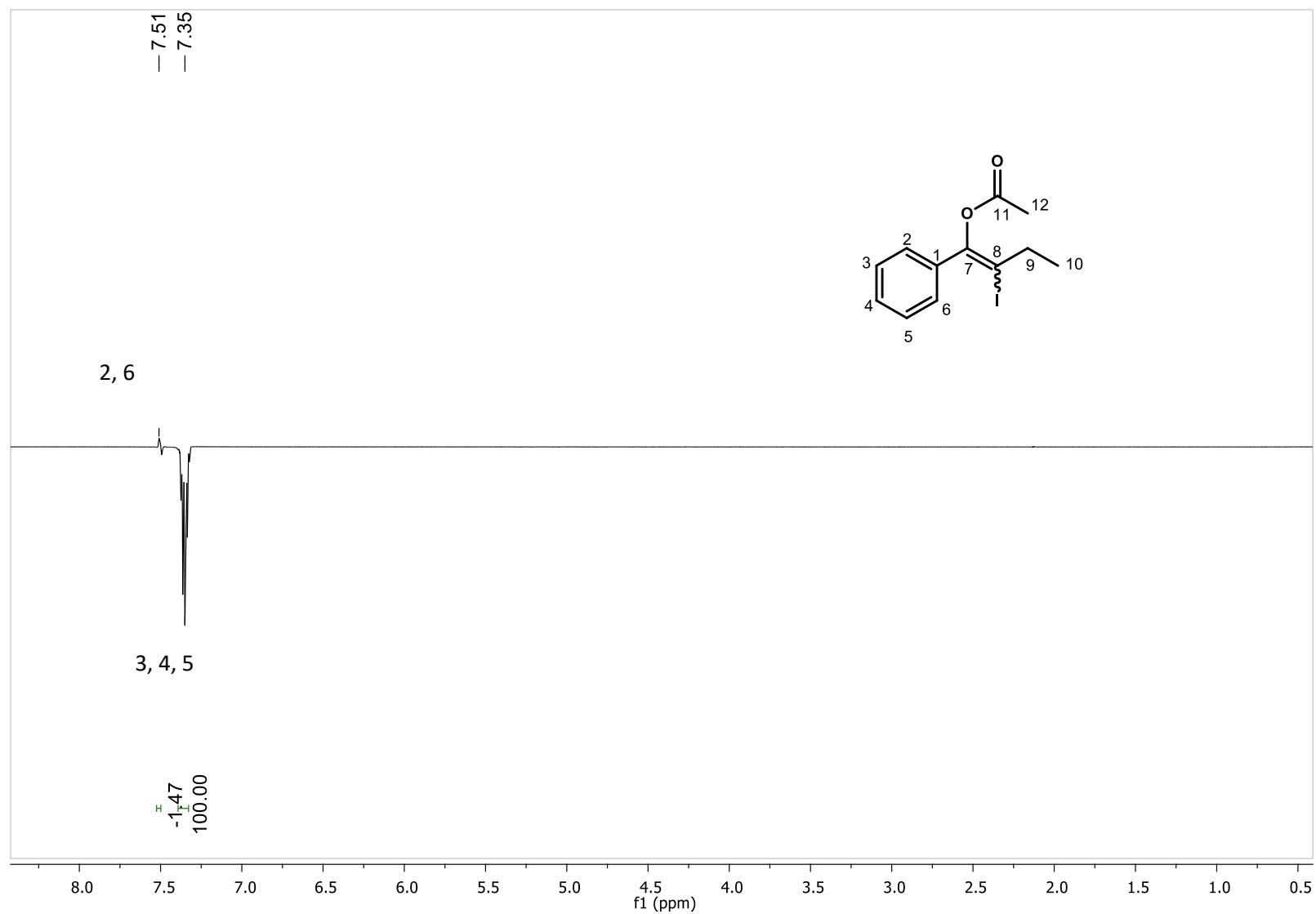
Spectrum S57. NOESY-1D of 2-iodo-1-phenylbut-1-en-1-yl acetate – irradiation at H10.



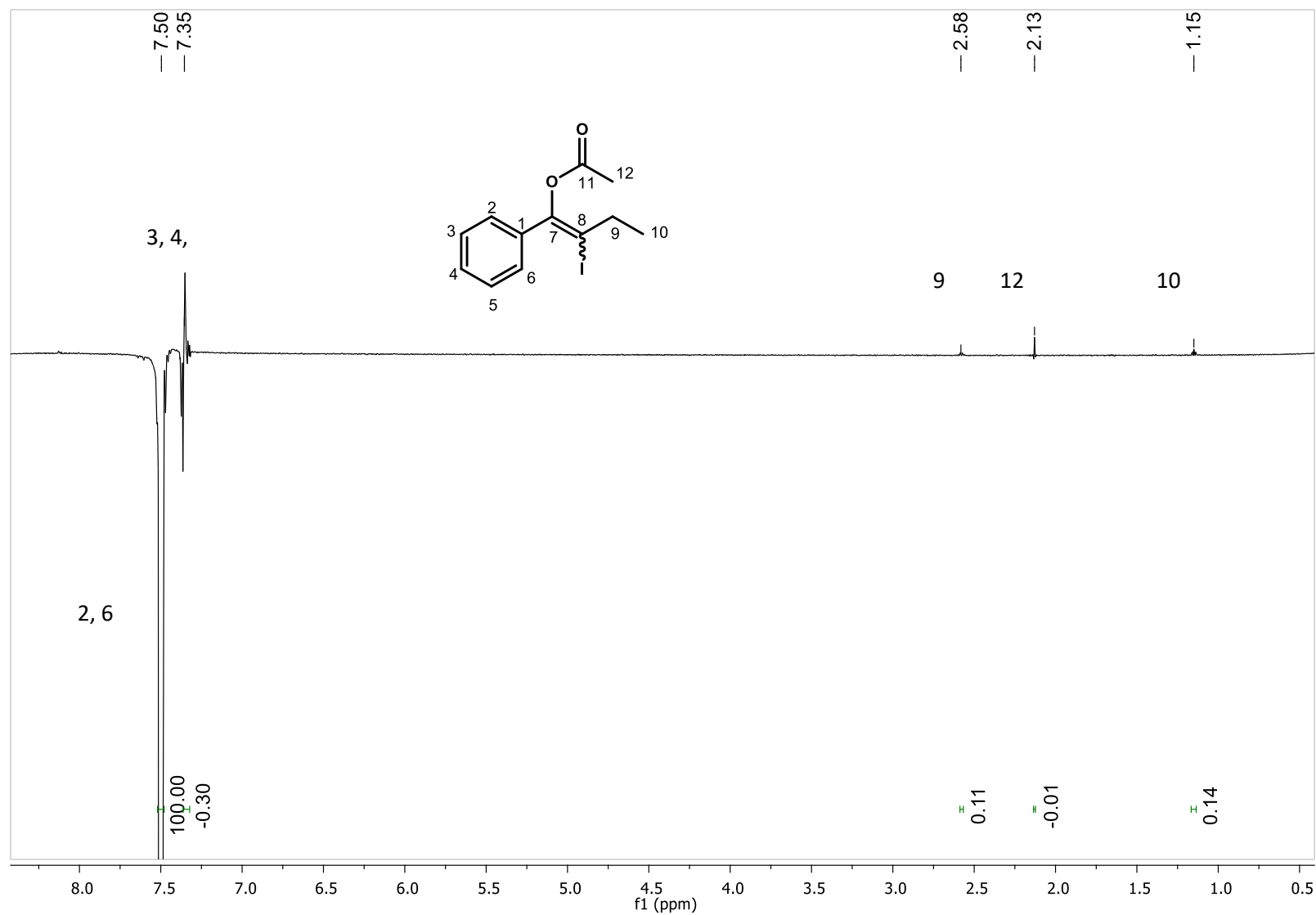
Spectrum S58. NOESY-1D of 2-iodo-1-phenylbut-1-en-1-yl acetate – irradiation H12.



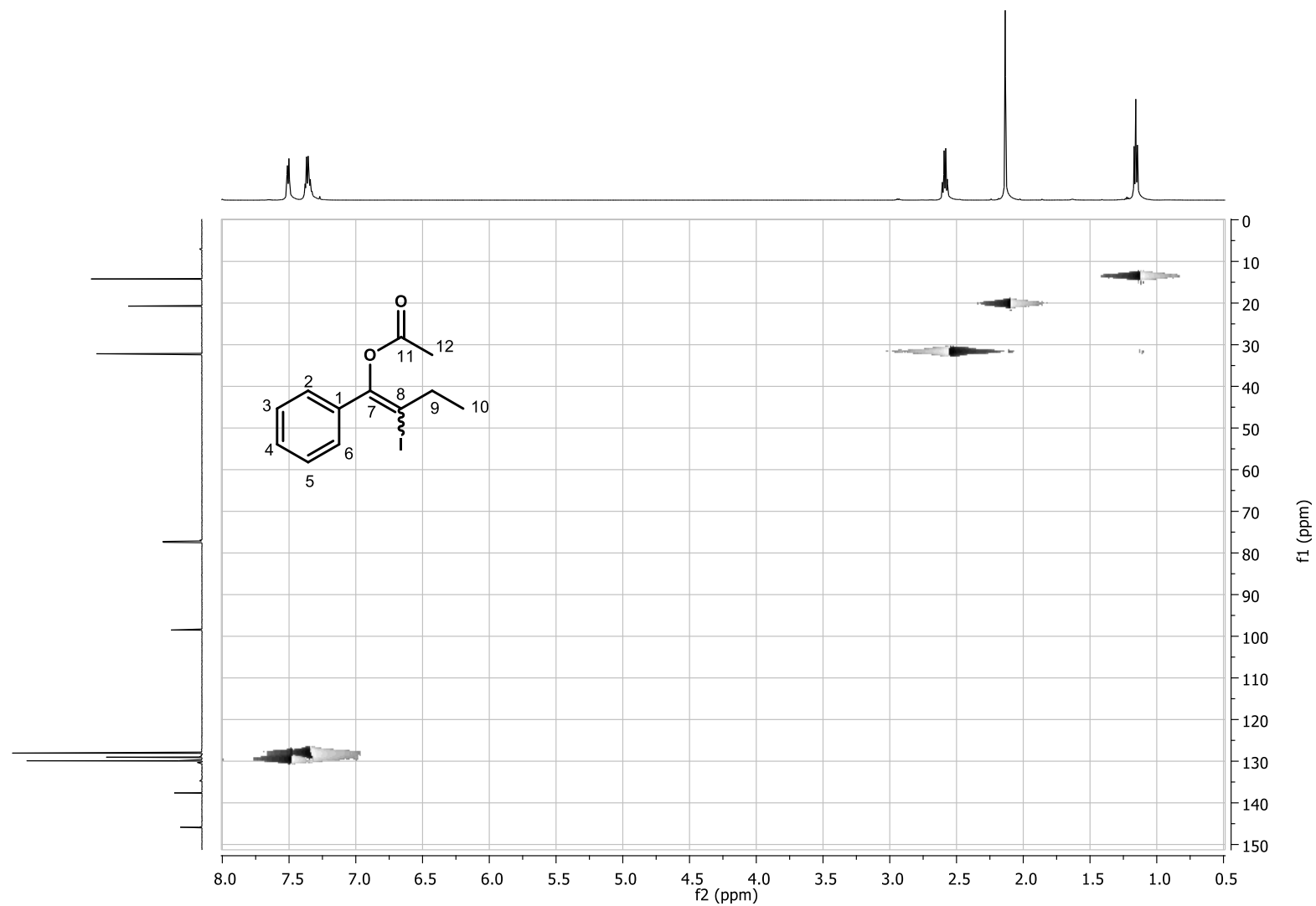
Spectrum S59. NOESY-1D of 2-iodo-1-phenylbut-1-en-1-yl acetate – irradiation H9.



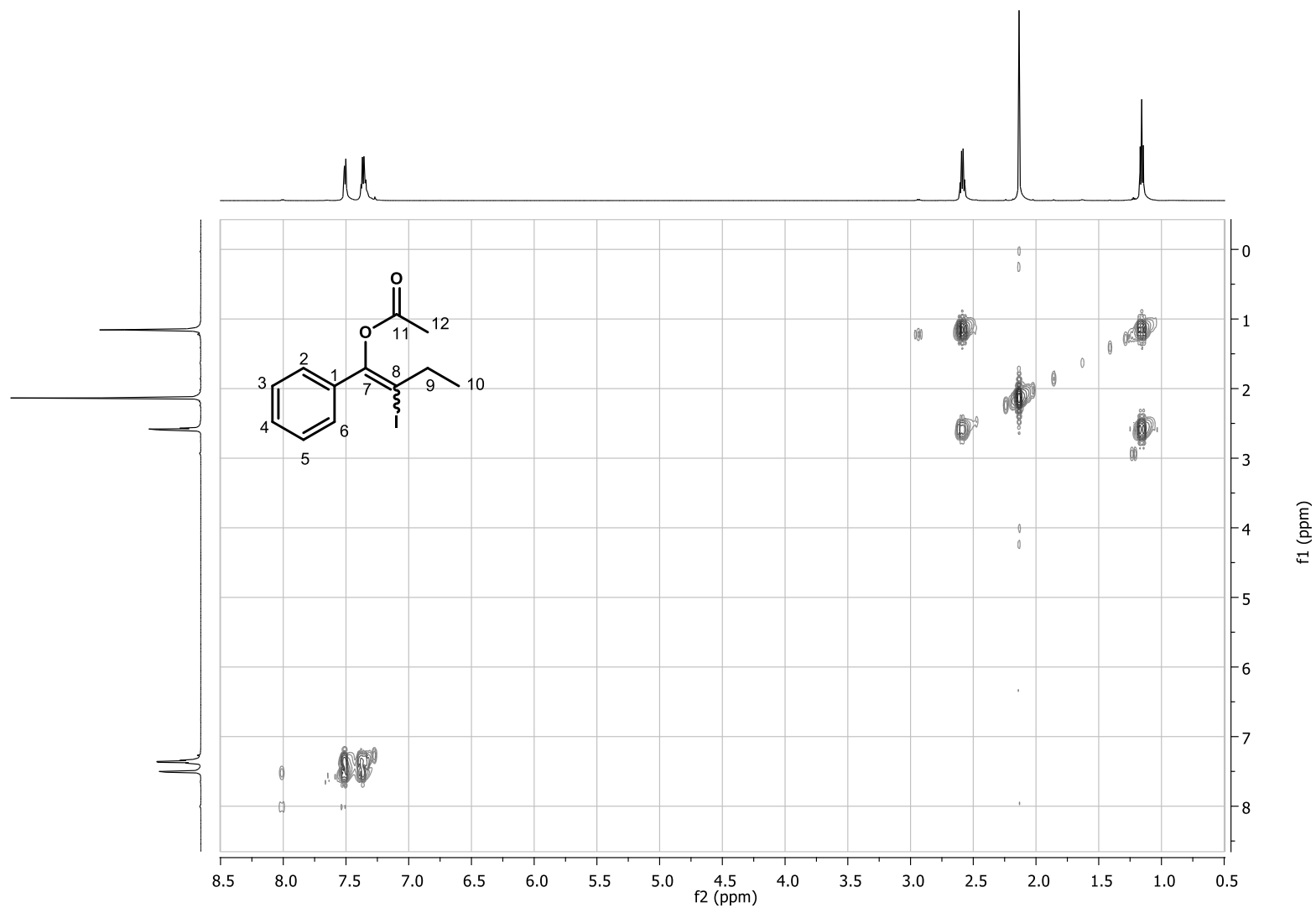
Spectrum S60. NOESY-1D of 2-iodo-1-phenylbut-1-en-1-yl acetate – irradiation H3,4,5.



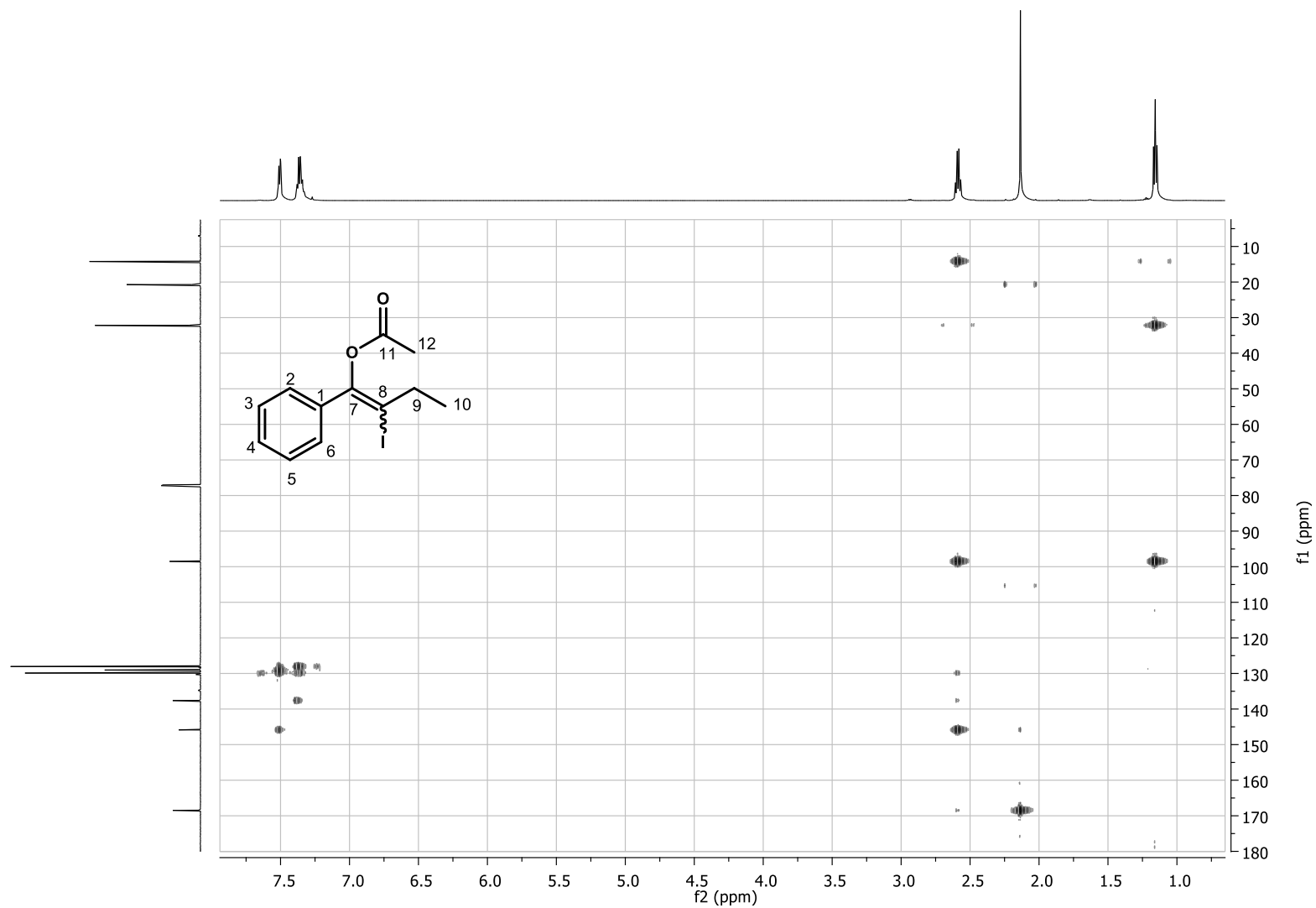
Spectrum S61. NOESY-1D of 2-iodo-1-phenylbut-1-en-1-yl acetate – irradiation H2,6.



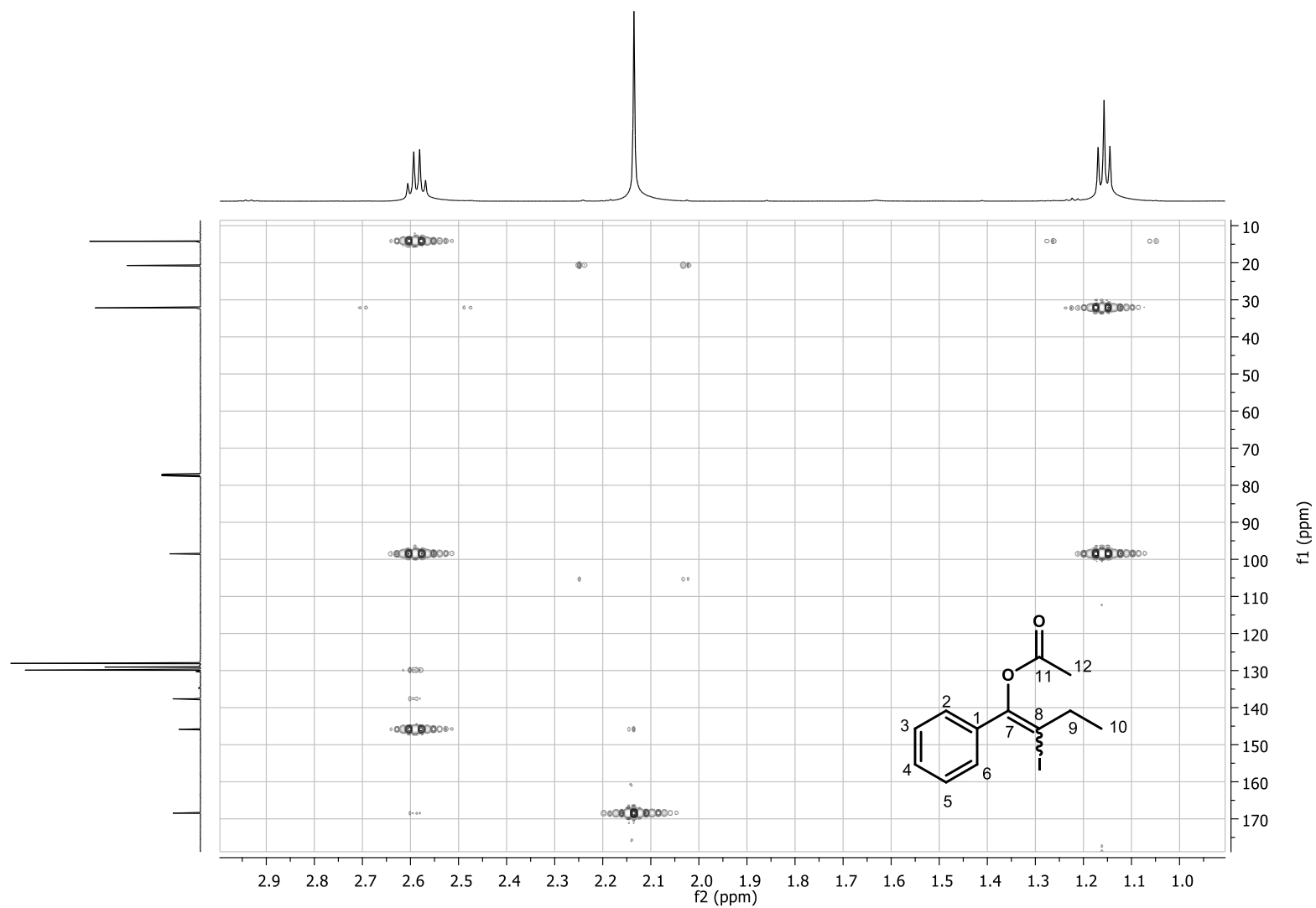
Spectrum S62. HSQC of 2-iodo-1-phenylbut-1-en-1-yl acetate.



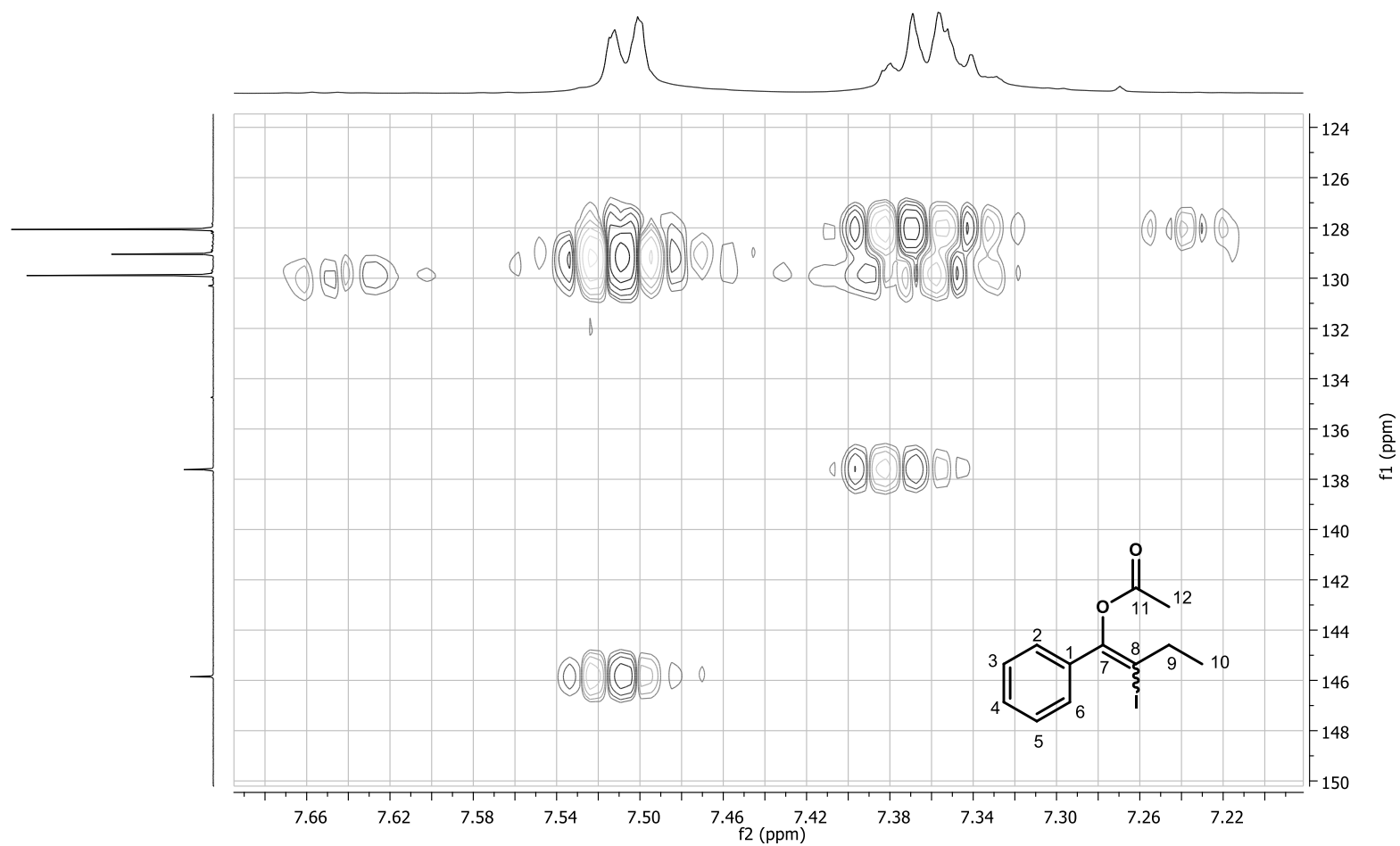
Spectrum S63. COSY of 2-iodo-1-phenylbut-1-en-1-yl acetate.



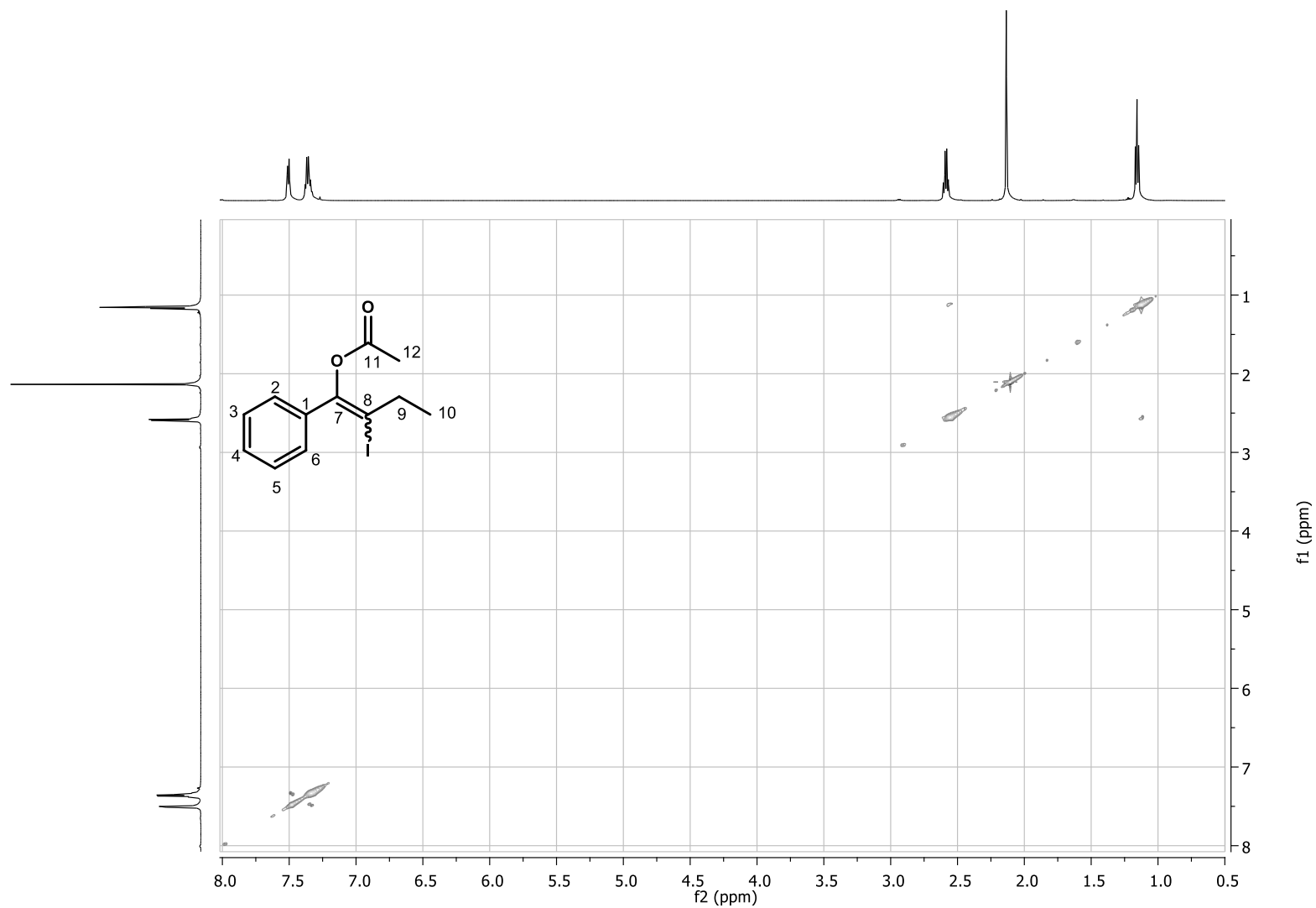
Spectrum S64. HMBC of 2-iodo-1-phenylbut-1-en-1-yl acetate.



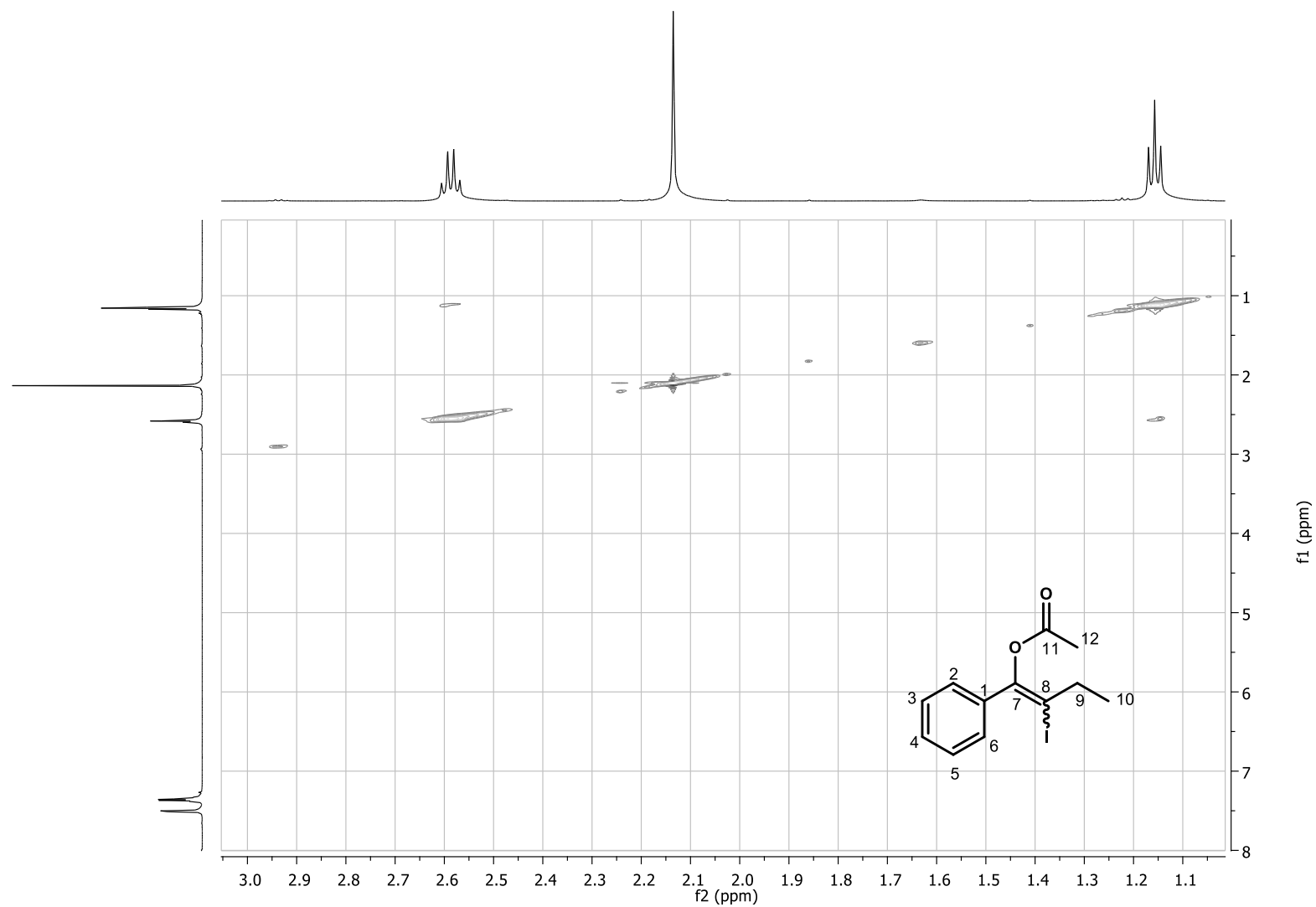
Spectrum S65. Expansion of HMBC of 2-iodo-1-phenylbut-1-en-1-yl acetate.



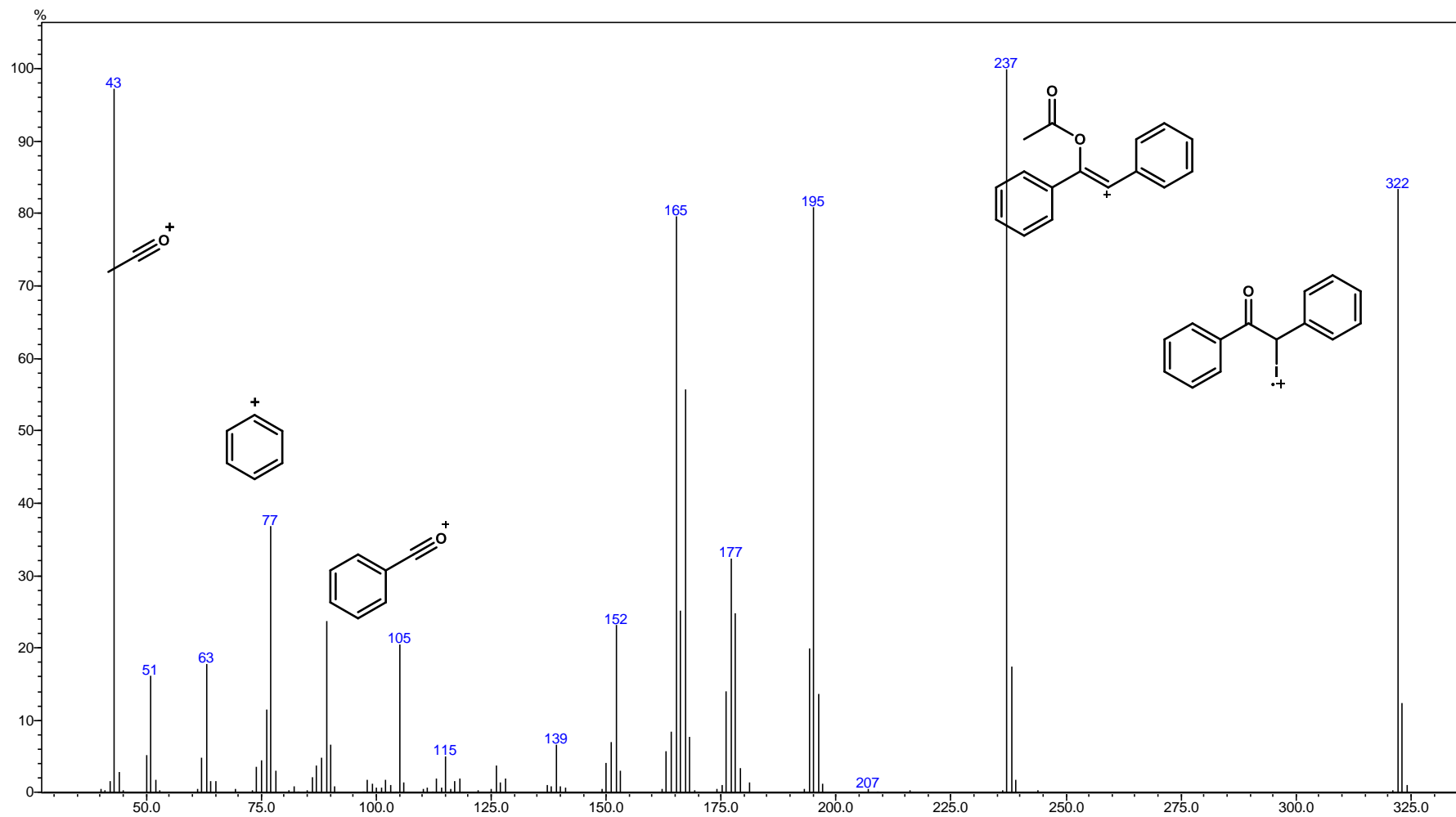
Spectrum S66. Expansion of HMBC of 2-iodo-1-phenylbut-1-en-1-yl acetate.



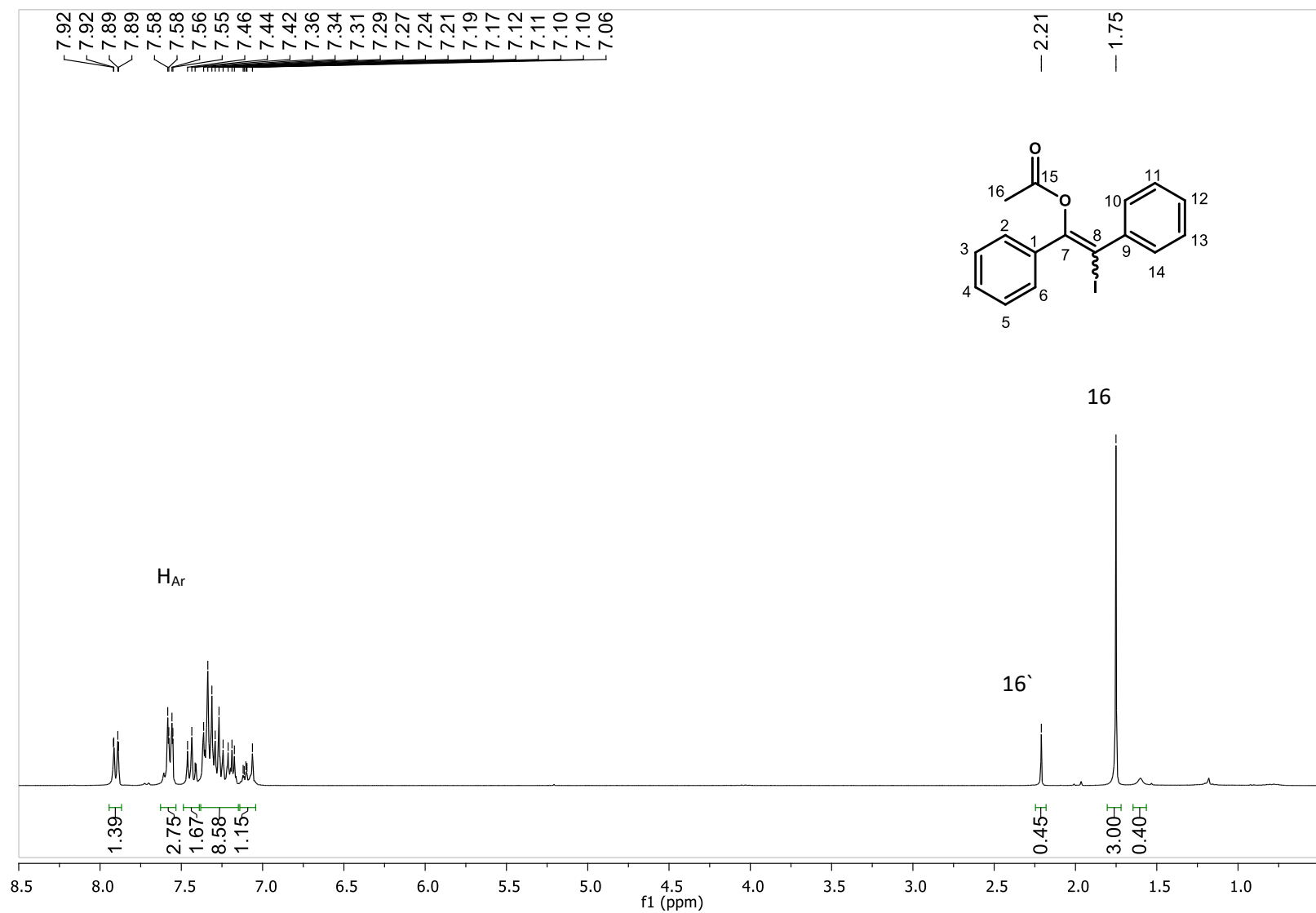
Spectrum S67. NOESY-2D of 2-iodo-1-phenylbut-1-en-1-yl acetate.



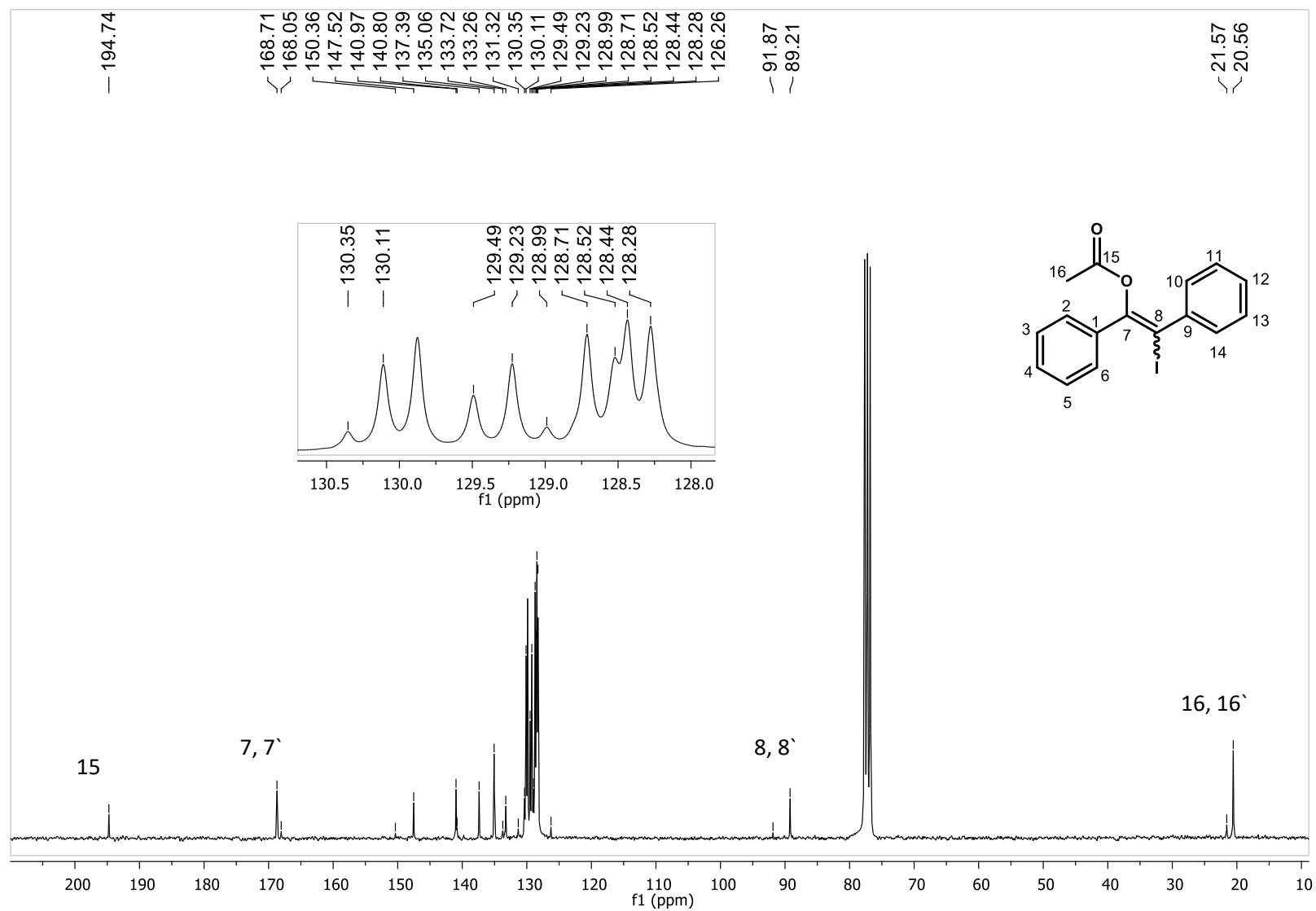
Spectrum S68. Expansion of NOESY-2D of 2-iodo-1-phenylbut-1-en-1-yl acetate.

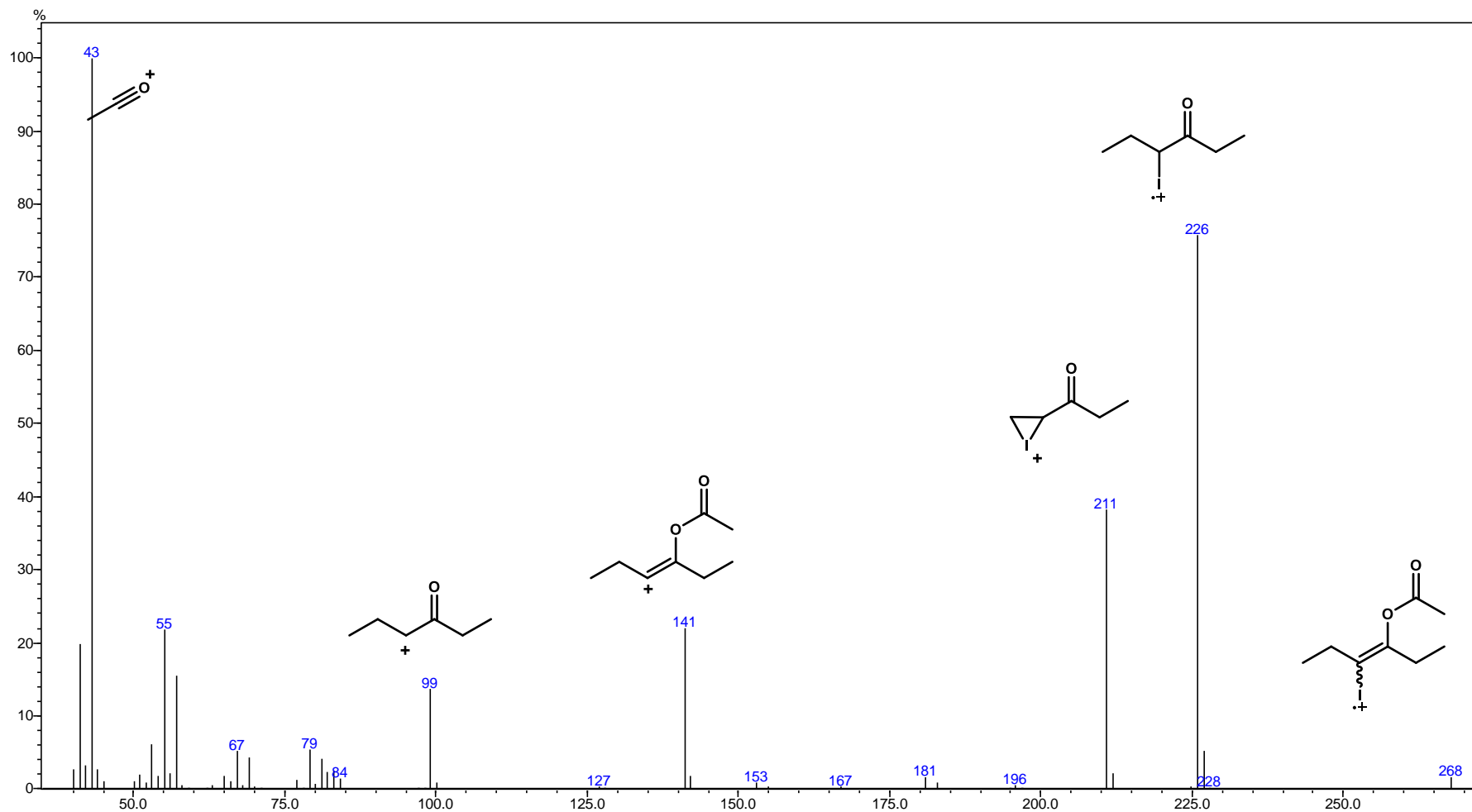


Spectrum S69. MS of 2-iodo-1,2-diphenylvinyl acetate.

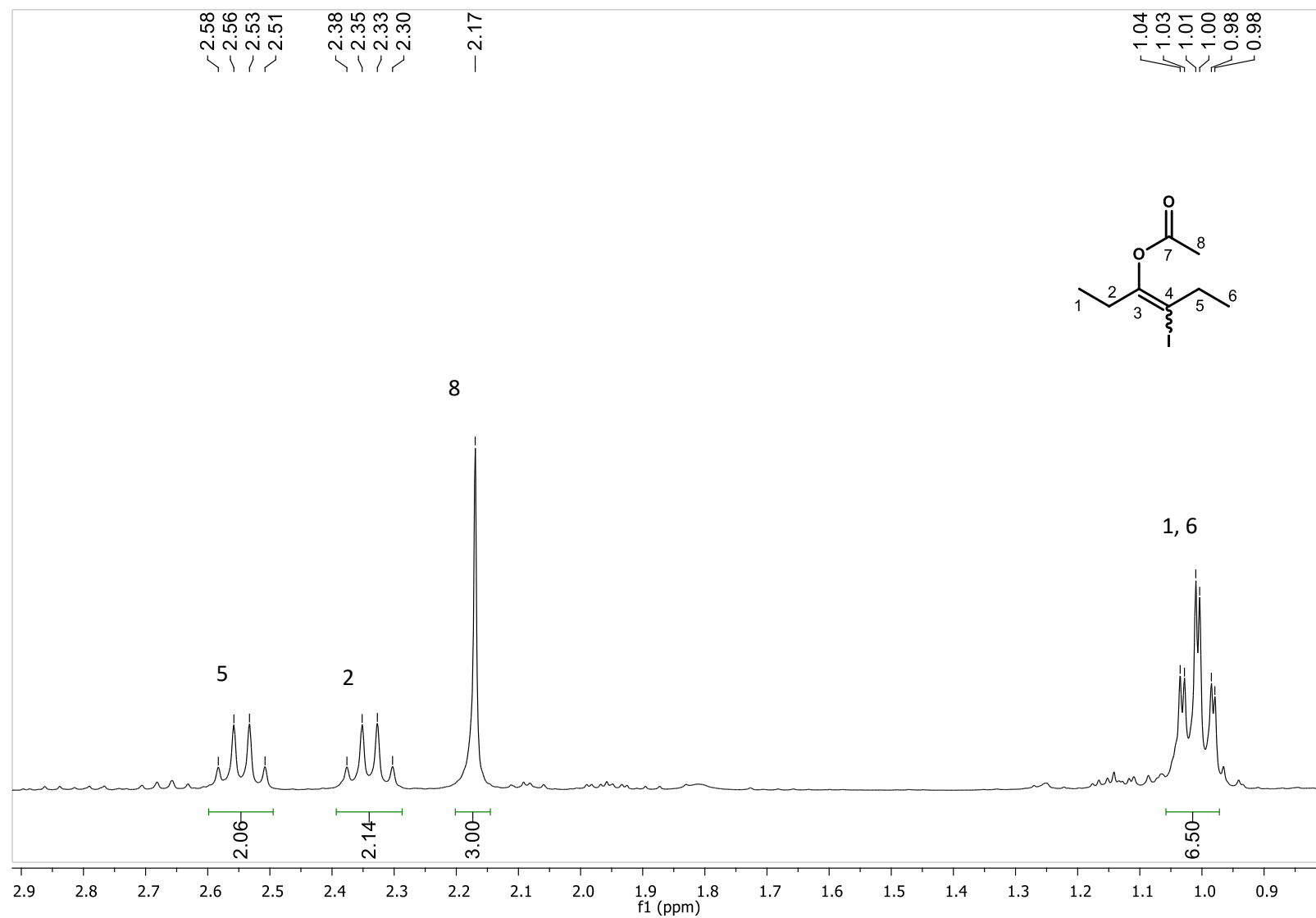


Spectrum S70. $^1\text{H NMR}$ (200MHz) of 2-iodo-1,2-diphenylvinyl acetate.

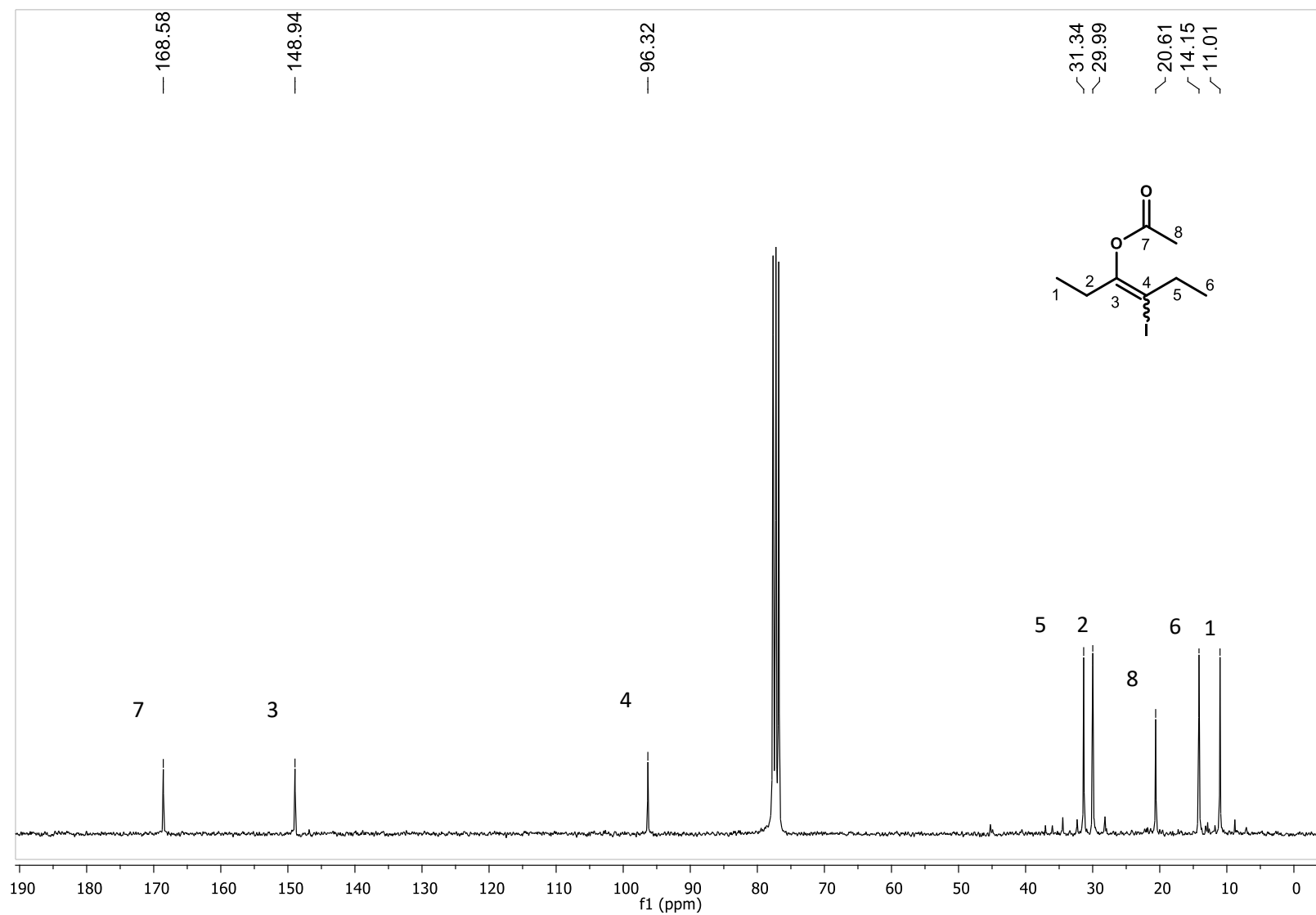
Spectrum S71. ¹³C NMR (50MHz) of 2-iodo-1,2-diphenylvinyl acetate.



Spectrum S72. MS of 4-iodohex-3-en-3-yl acetate.



Spectrum S73. ¹H NMR (300MHz) of 4-iodohex-3-en-3-yl acetate.



Spectrum S74. ^{13}C NMR (75MHz) of 4-iodohex-3-en-3-yl acetate.