

Supplementary Material

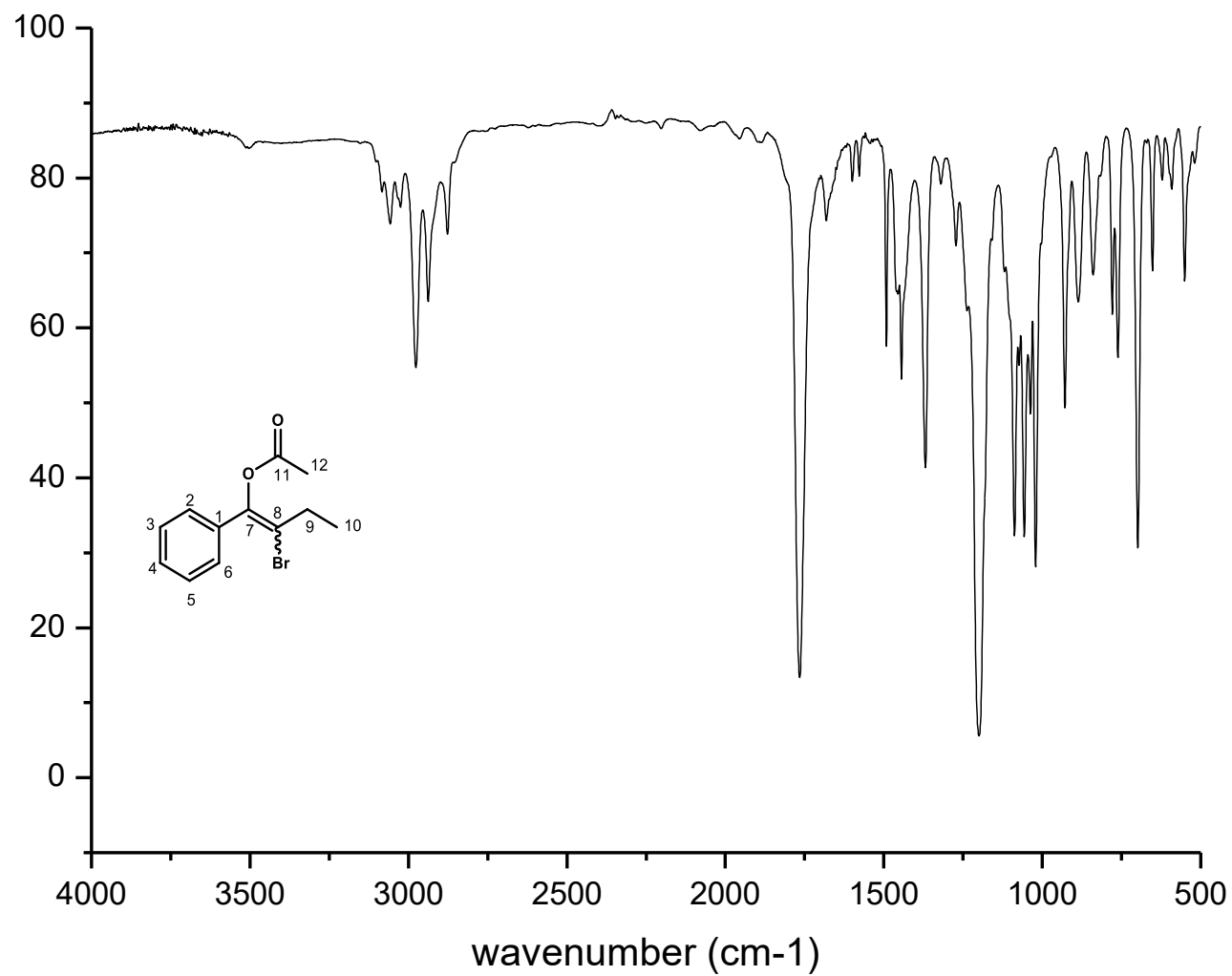
Reaction of trihaloisocyanuric acids with alkynes: an efficient methodology for the preparation of β -haloenol acetates

Lívia T. C. Crespo, Geisa P. Nogueira, Marcio C. S. de Mattos,* and Pierre M. Esteves*

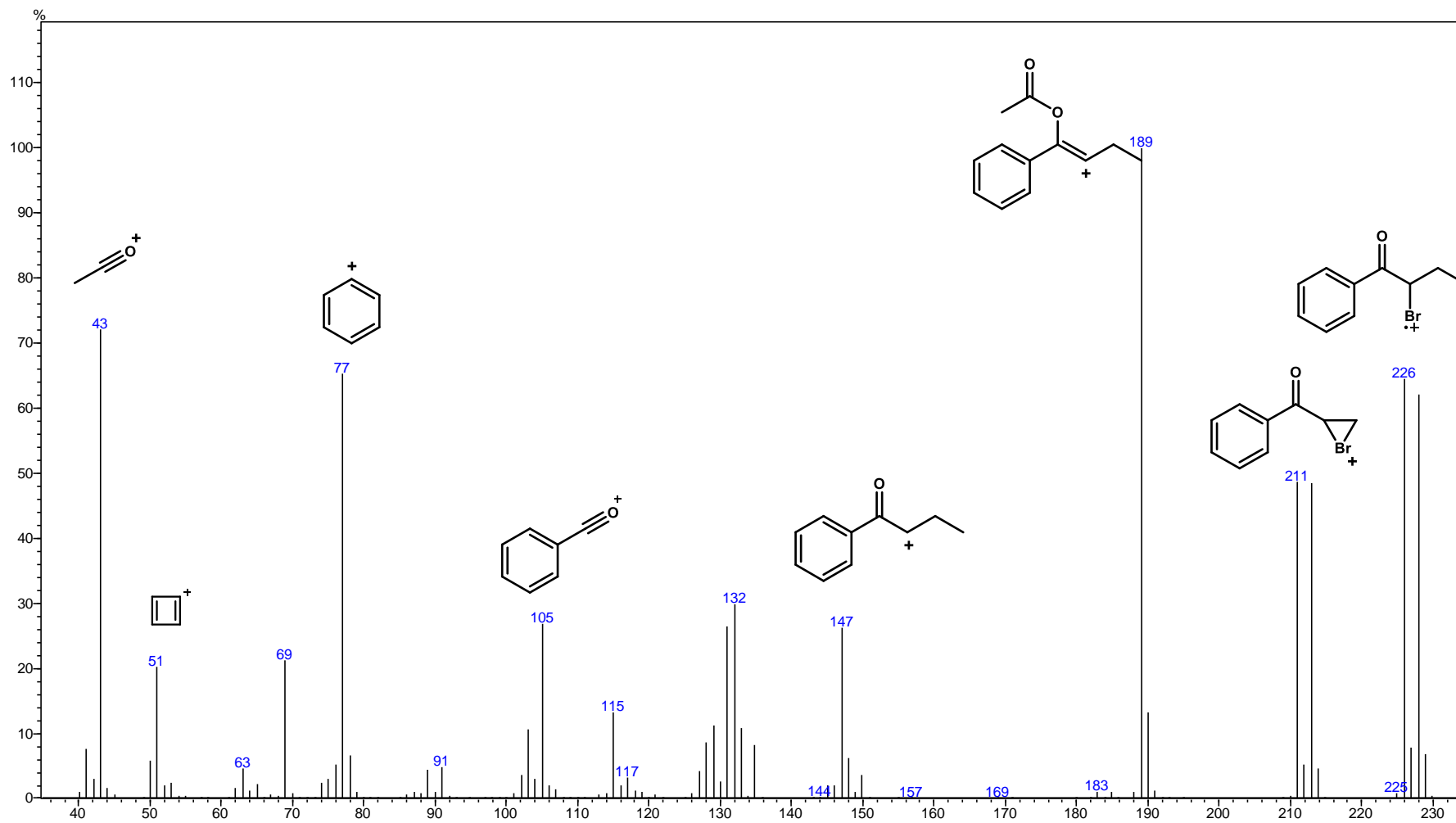
Instituto de Química, Departamento de Química Orgânica, Universidade Federal do Rio de Janeiro, Cx Postal 68545, 21945-970, Rio de Janeiro, Brazil

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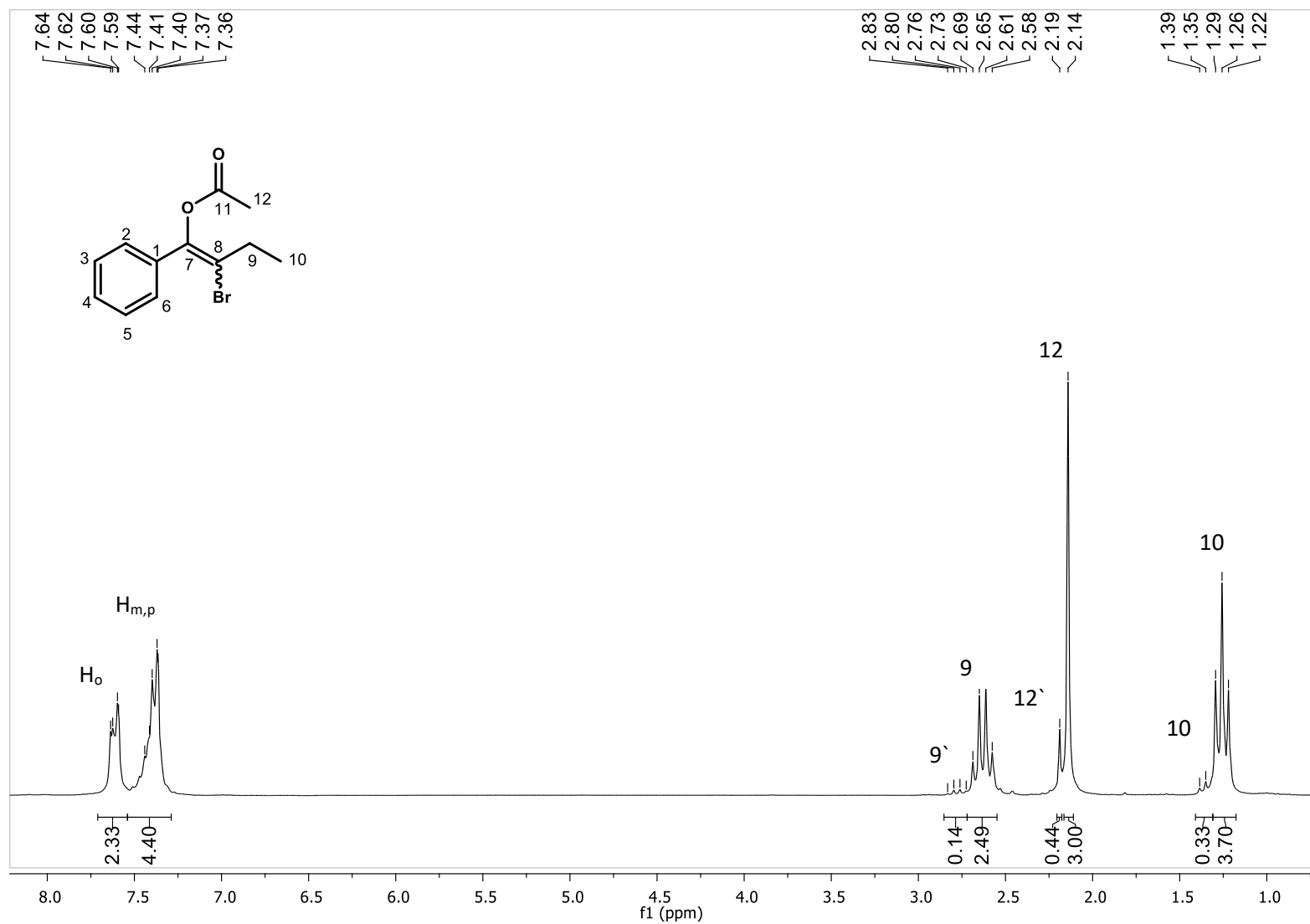
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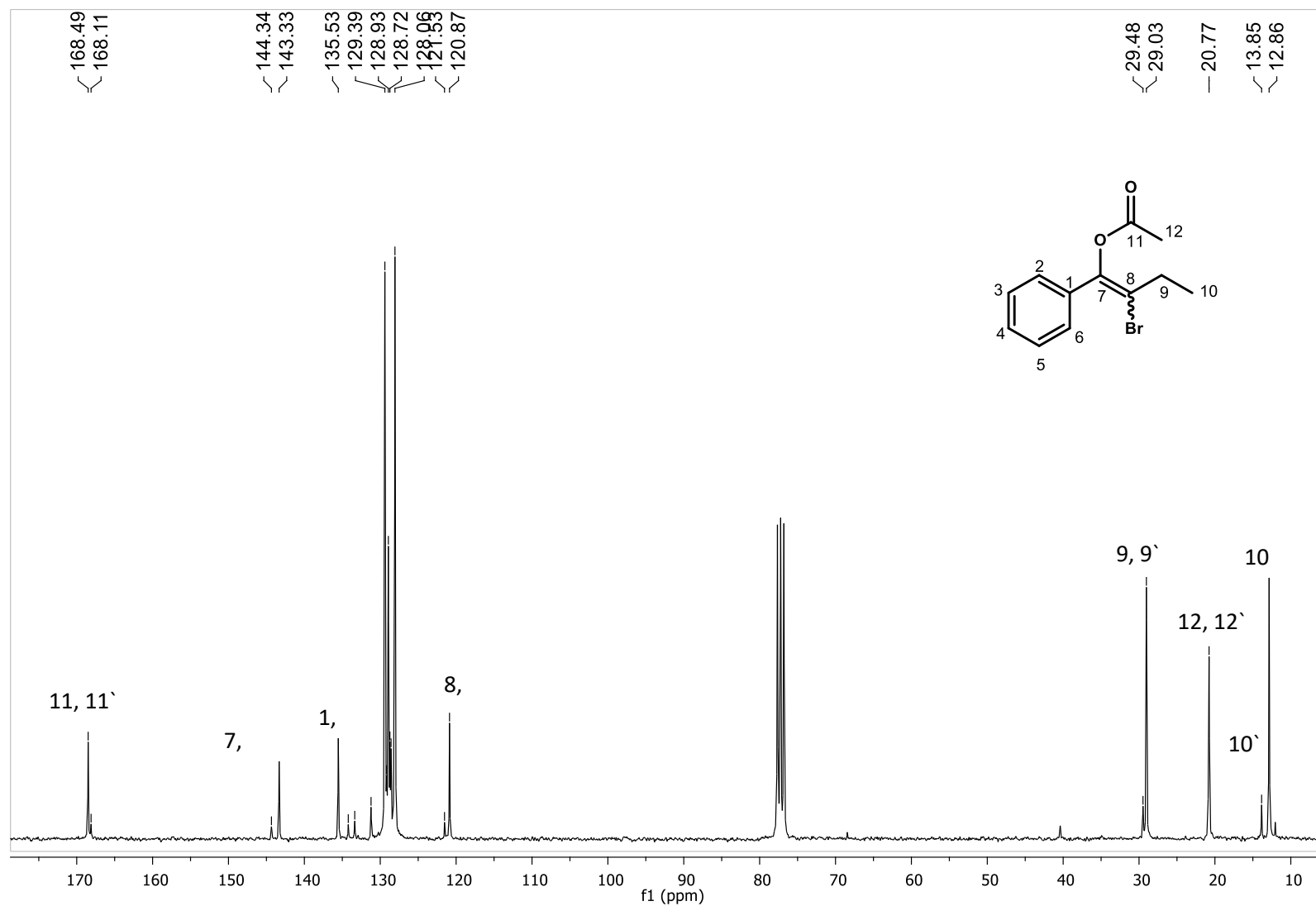
Spectrum S1. IR of 2-bromo-1-phenylbut-1-en-1-yl acetate.



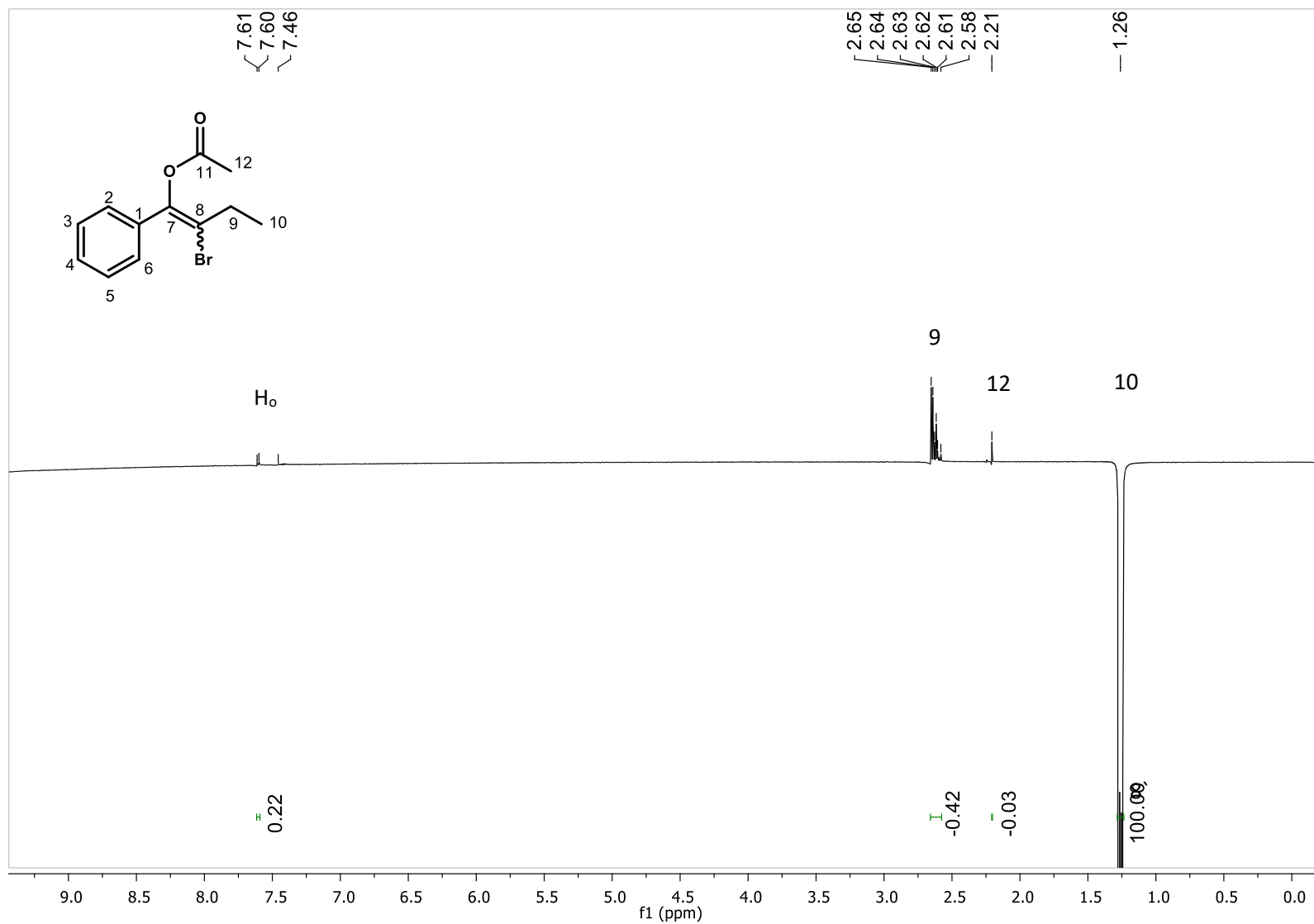
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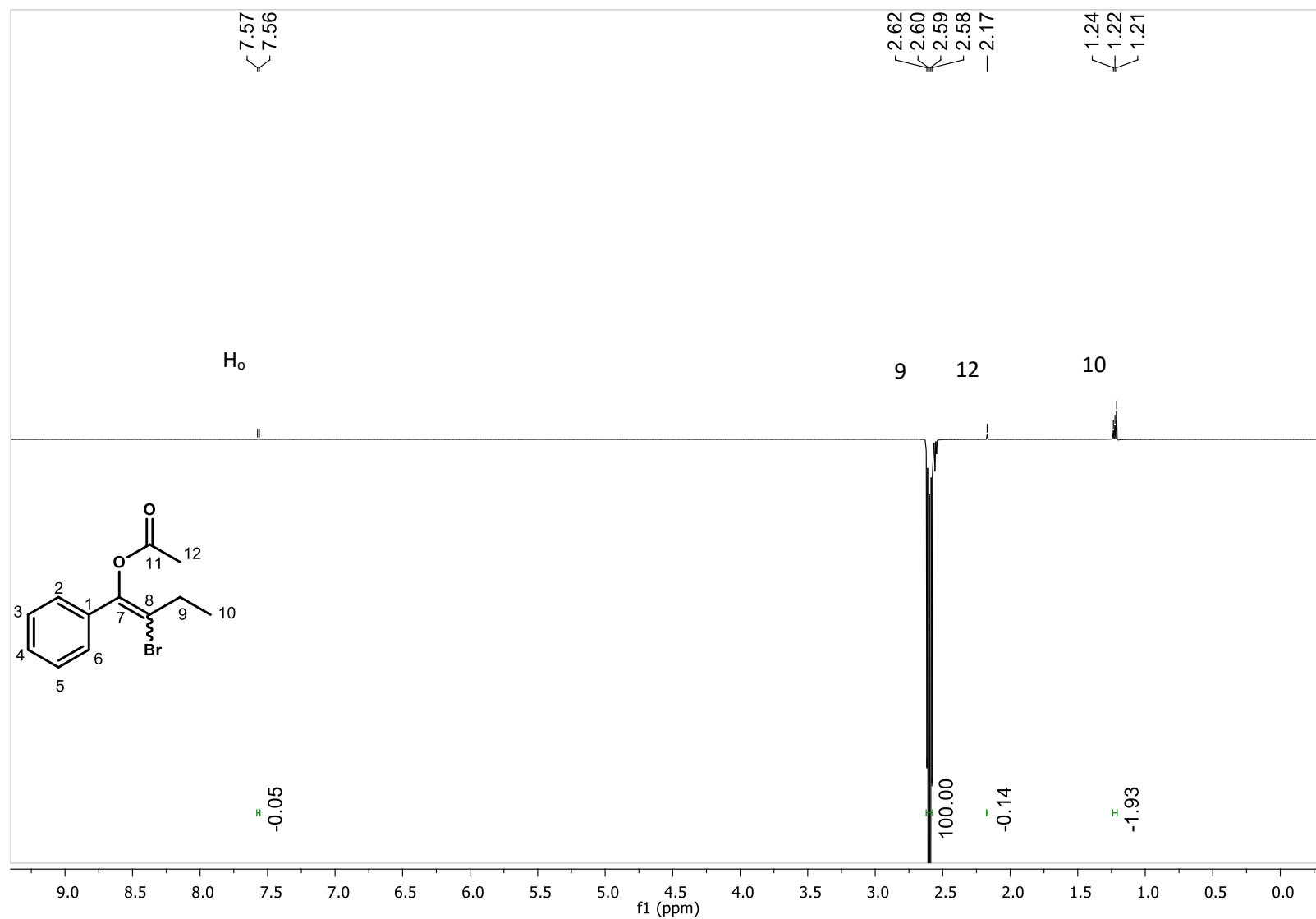
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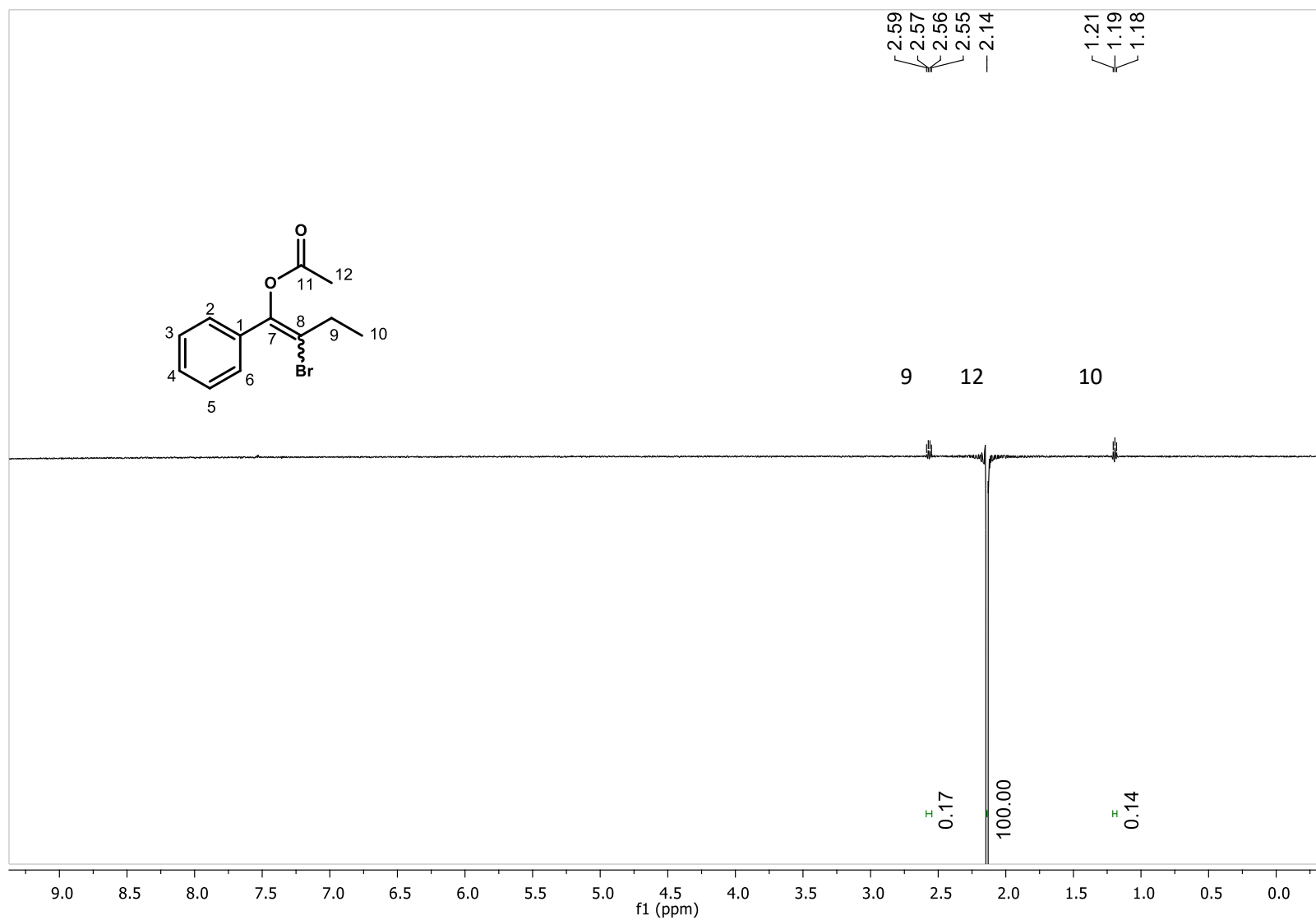
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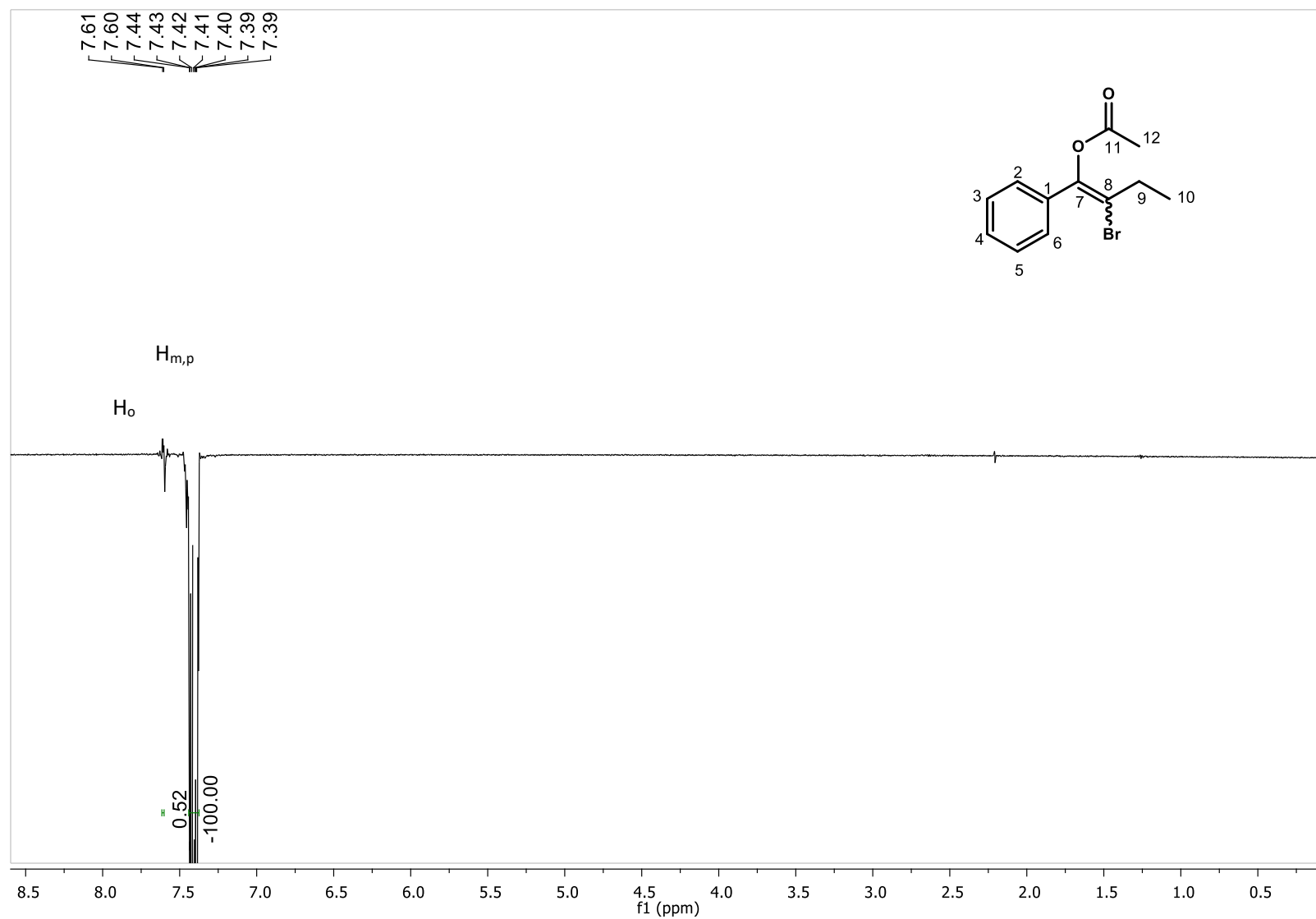
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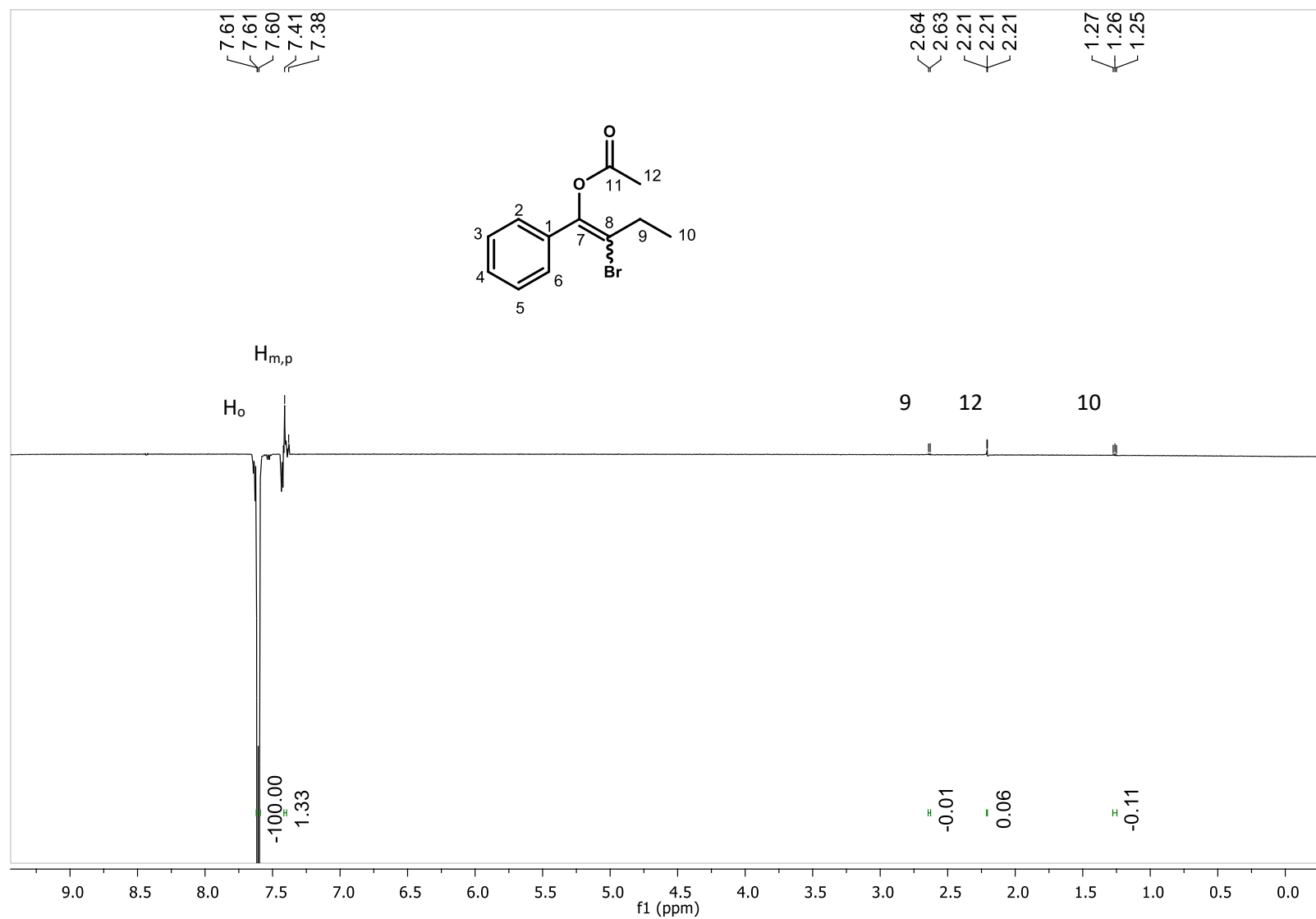
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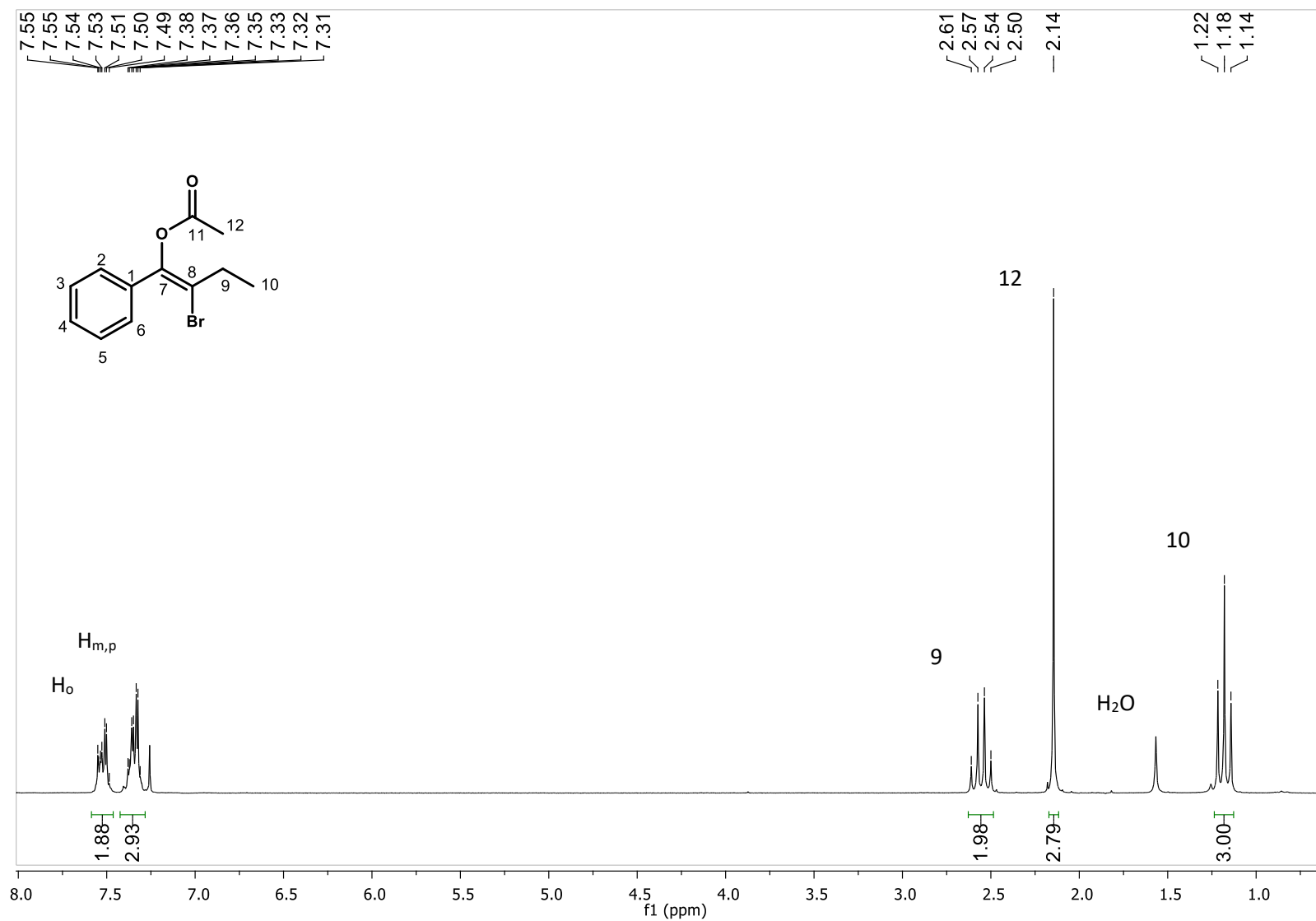


Spectrum S7. NOESY-1D of 2-bromo-1-phenylbut-1-en-1-yl acetate – irradiation at H12.

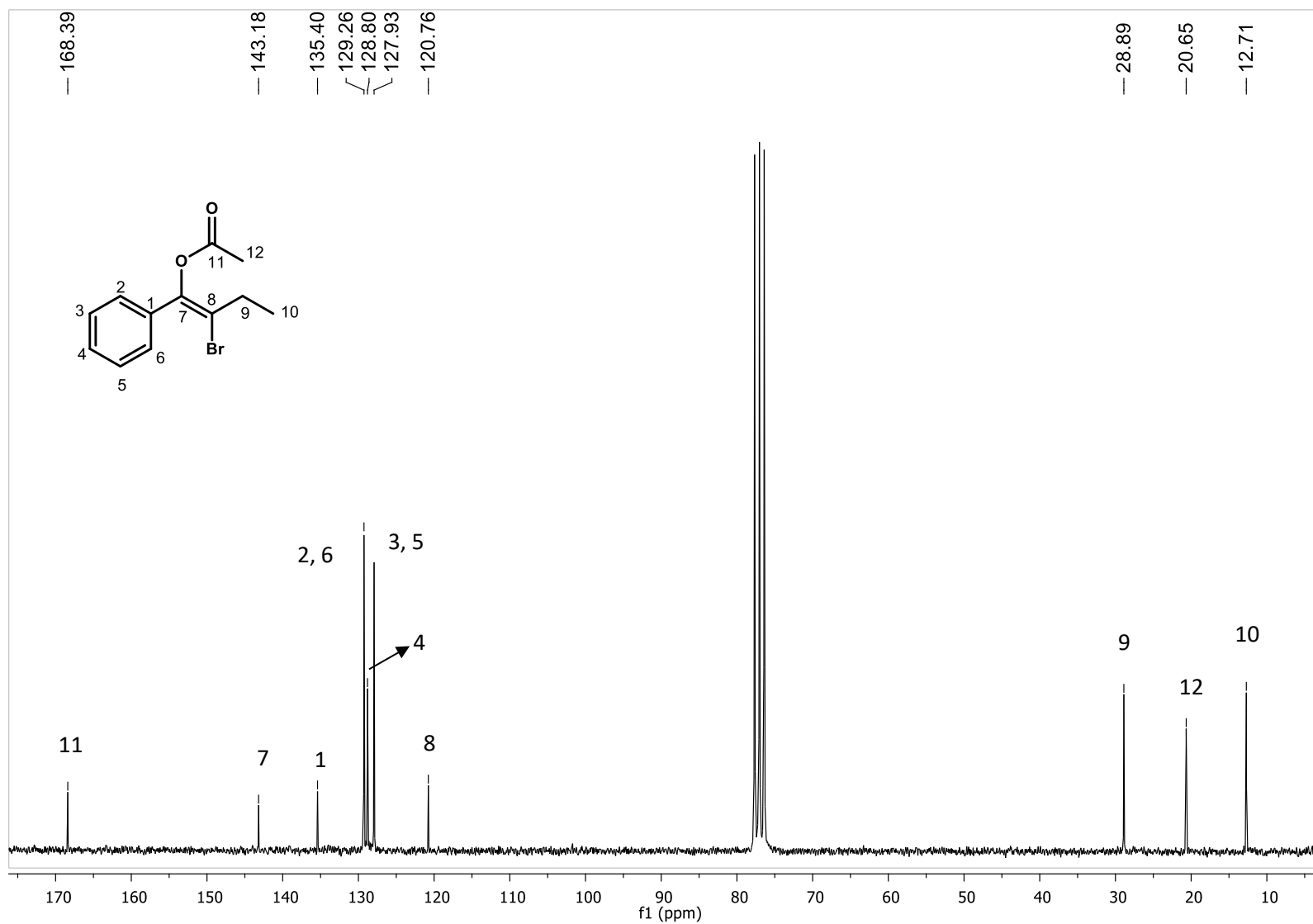


Spectrum S8. NOESY-1D of 2-bromo-1-phenylbut-1-en-1-yl acetate – irradiation at H_{m,p}.

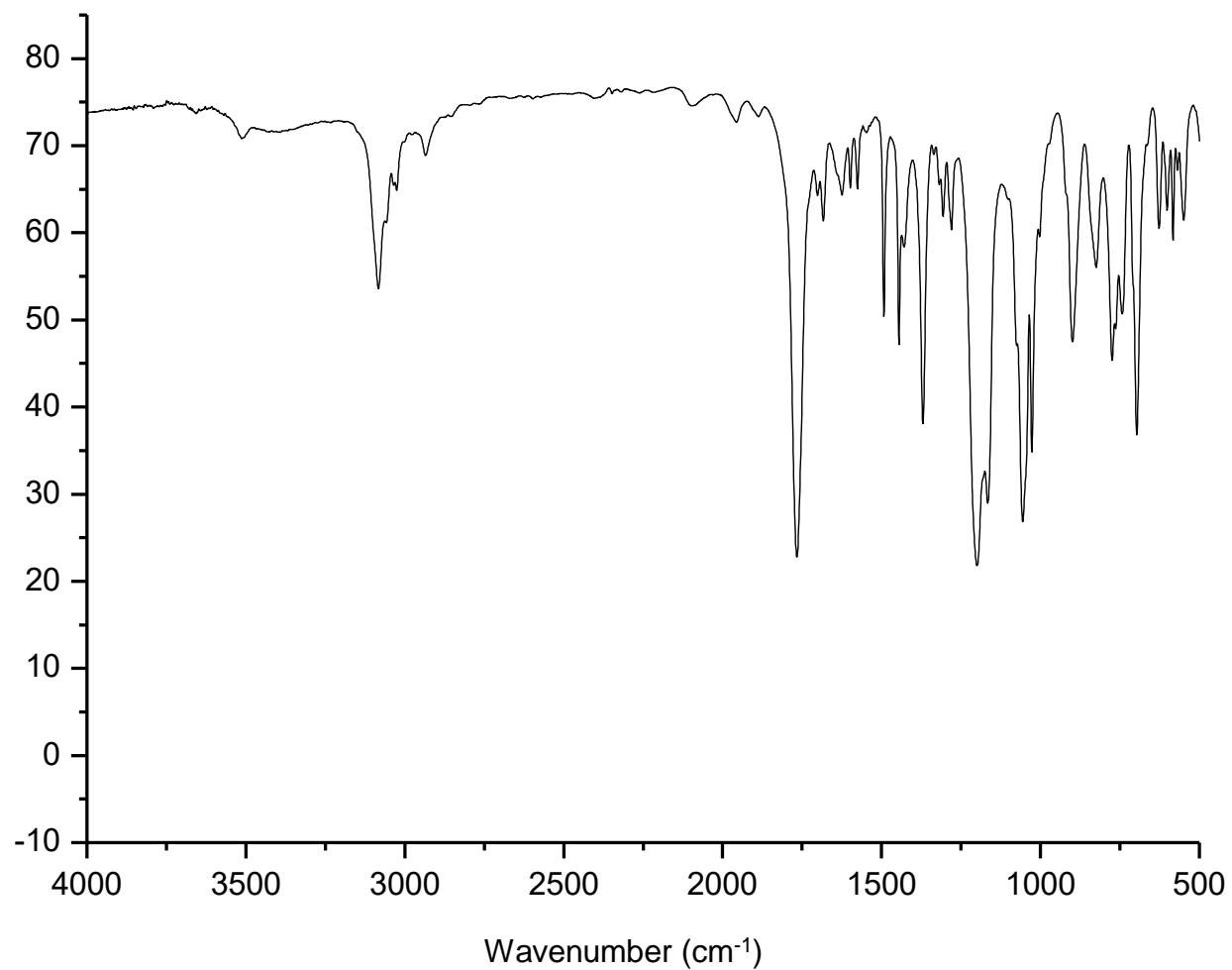
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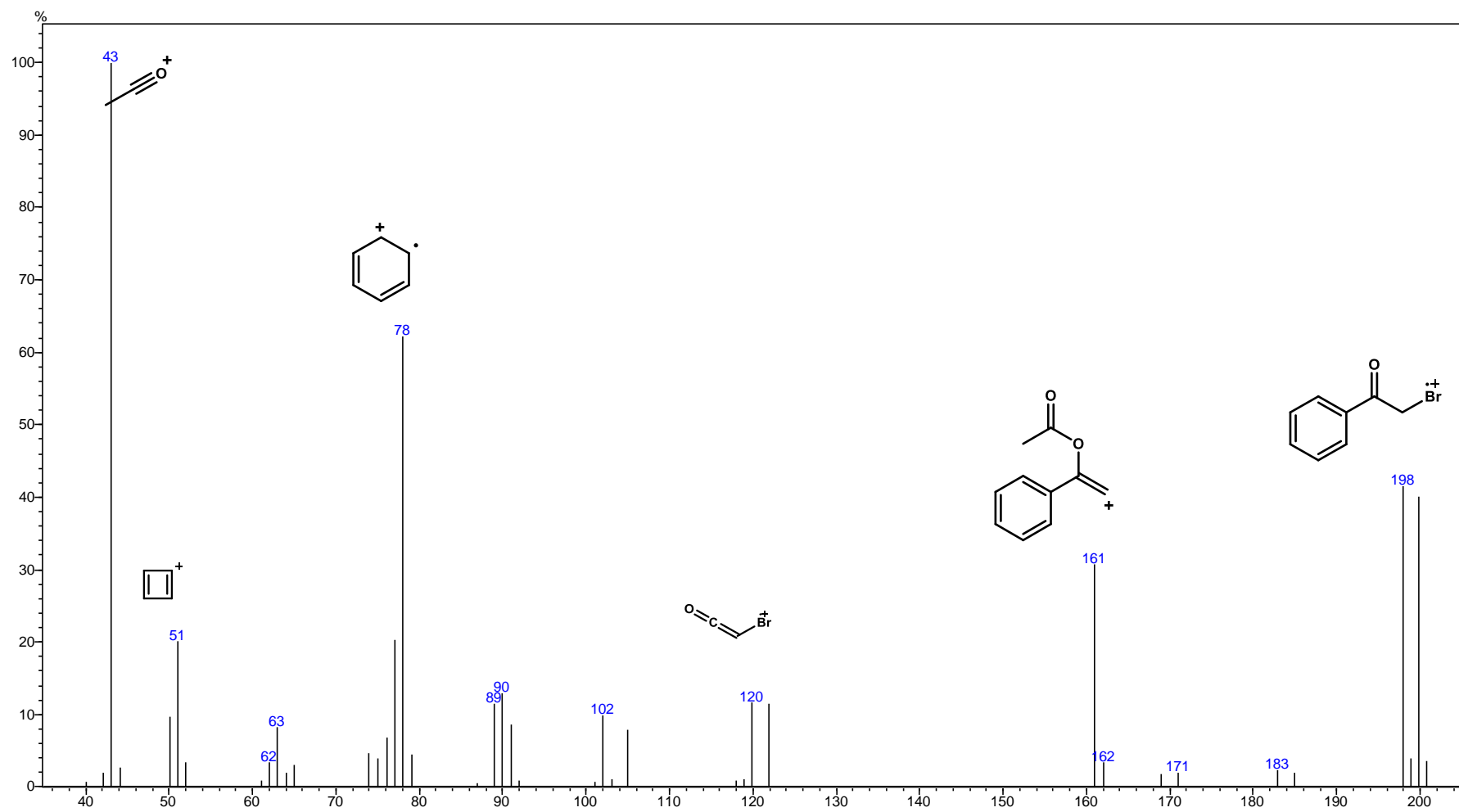
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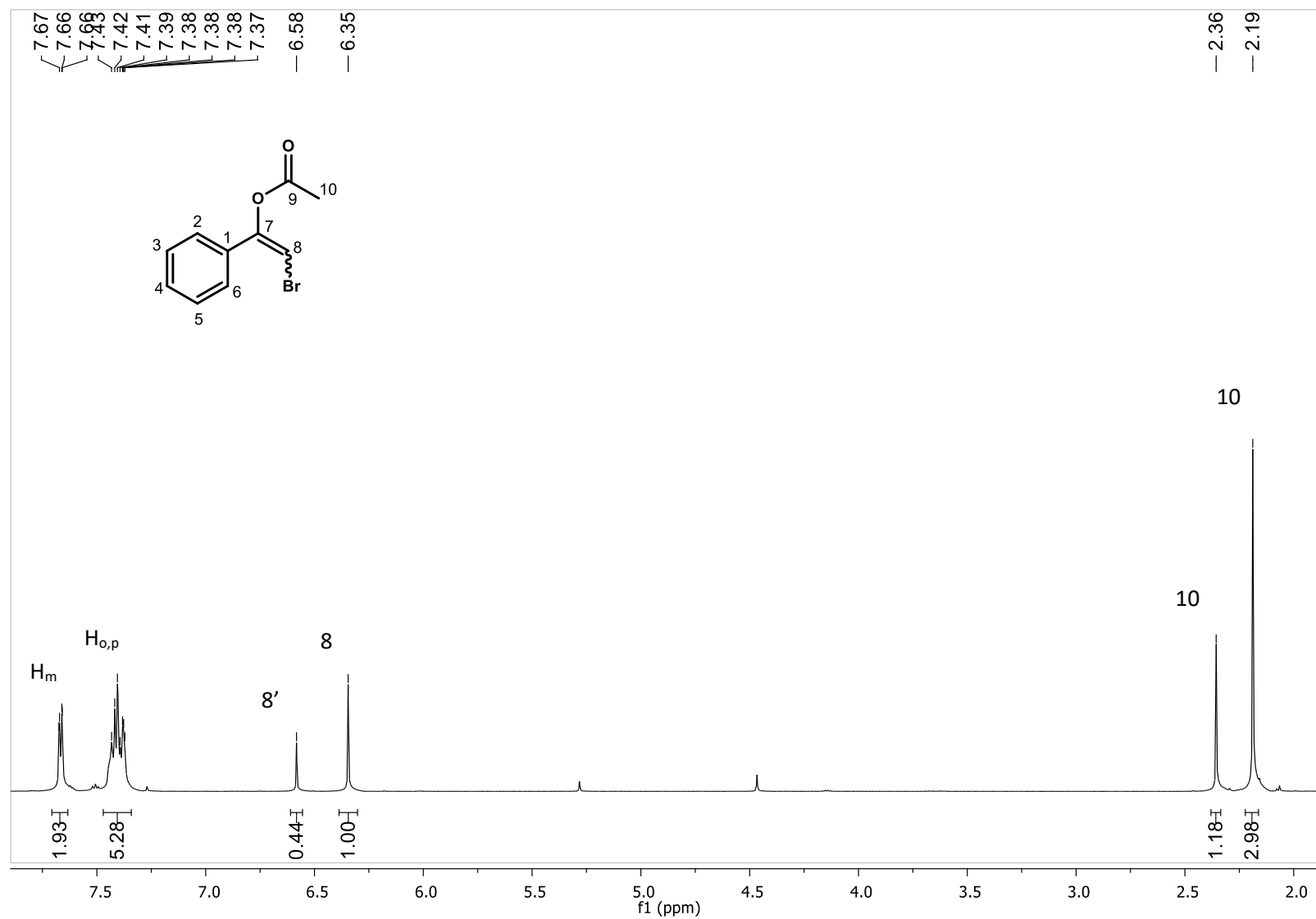
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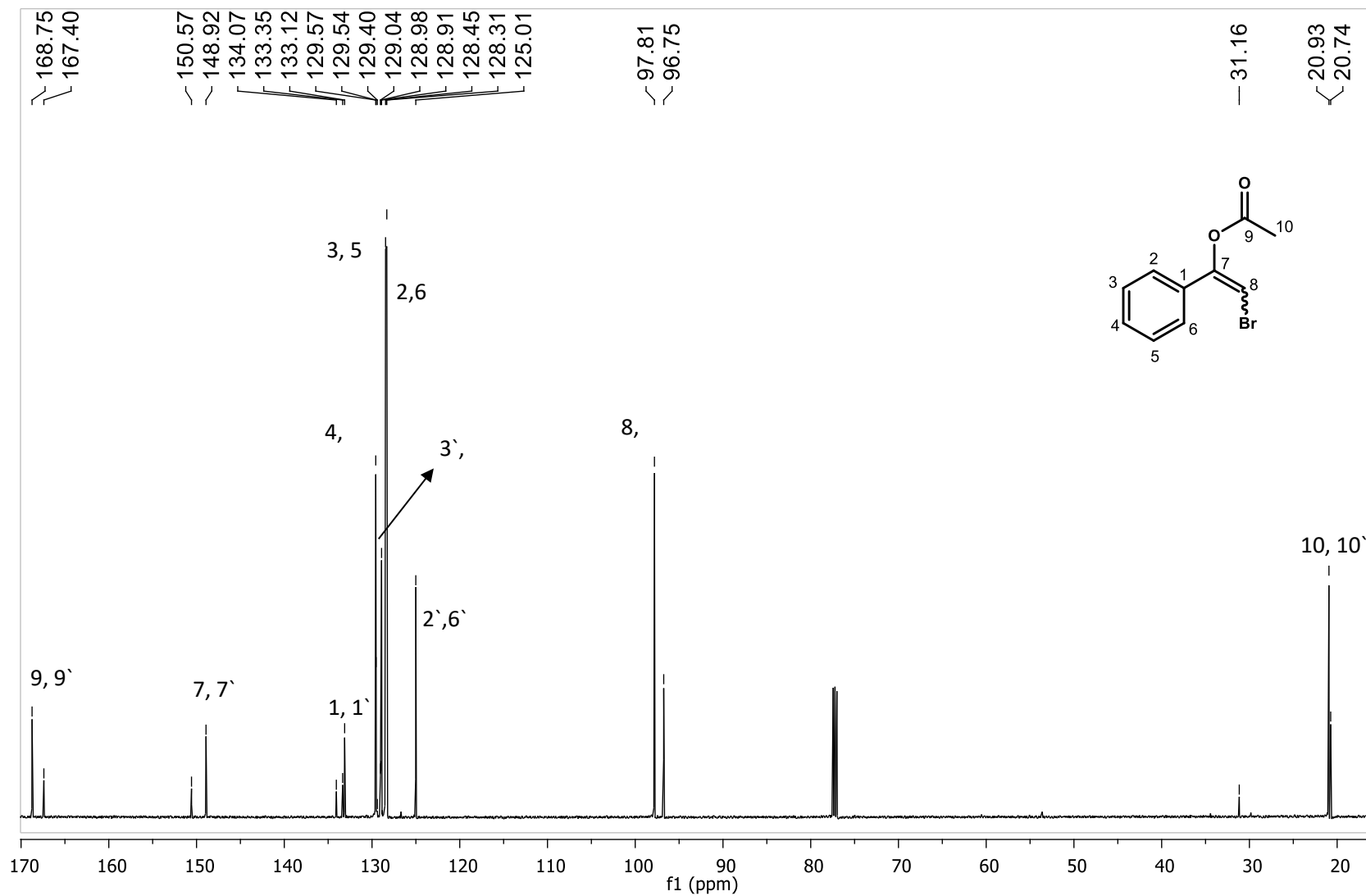
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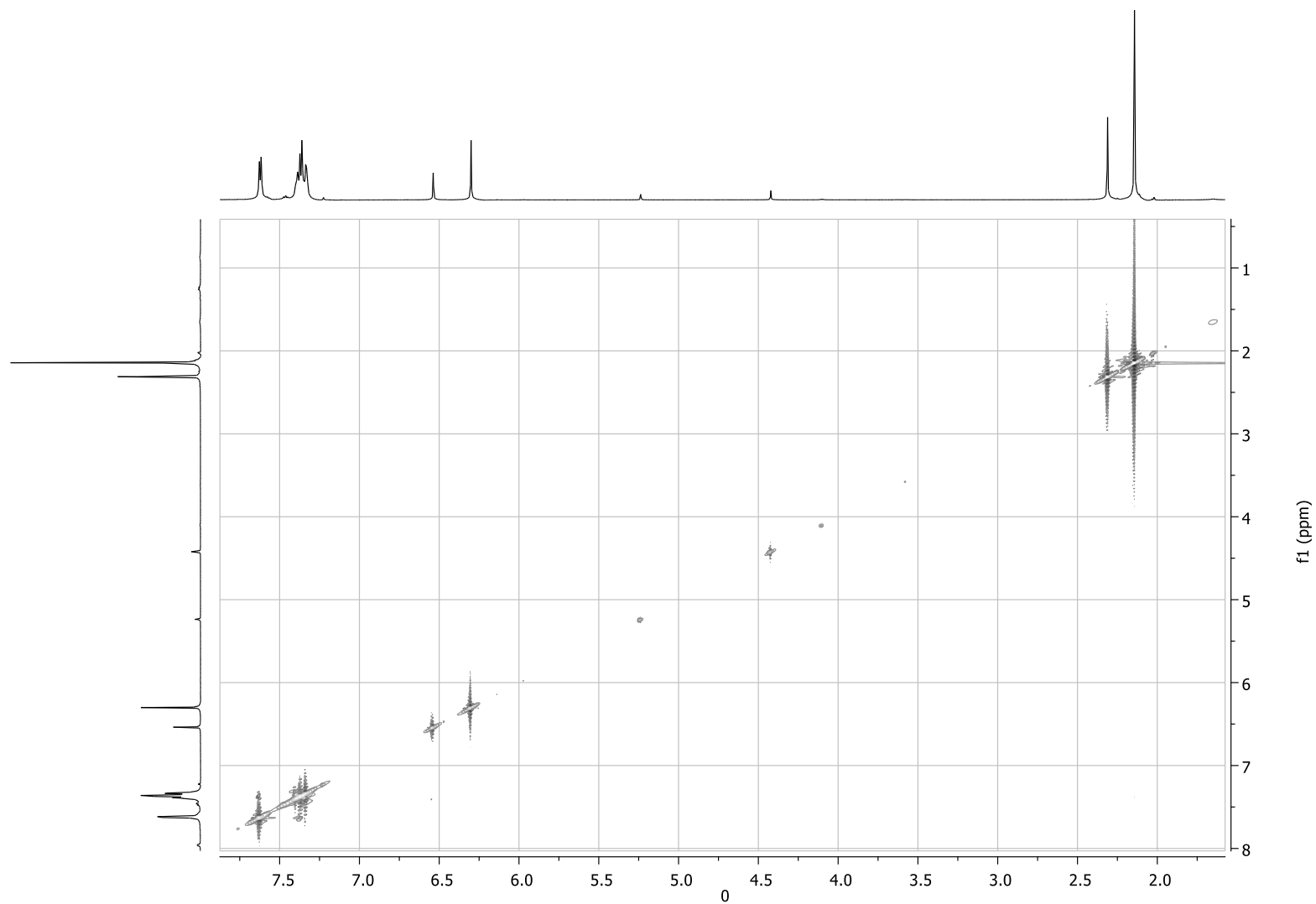
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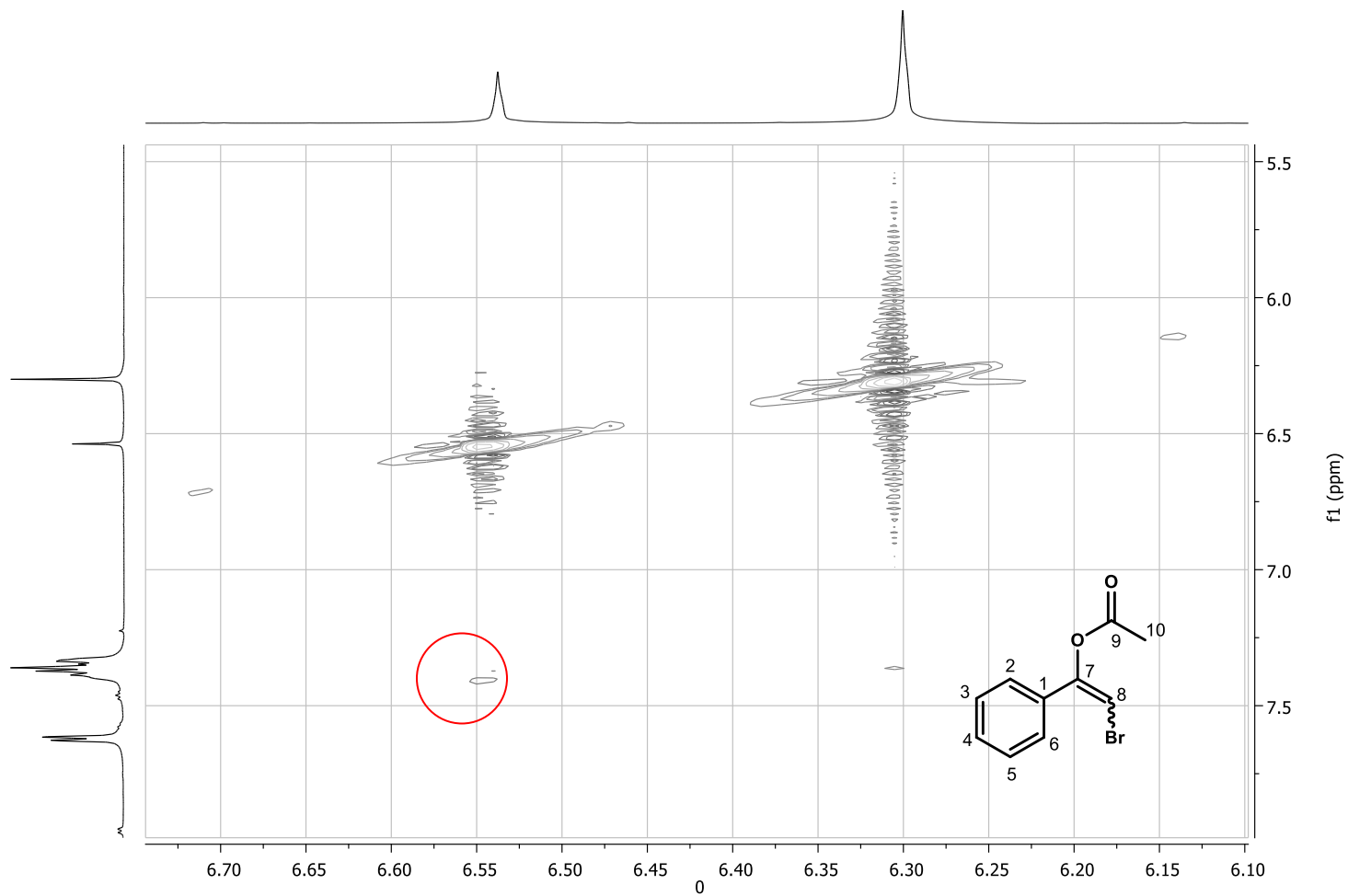
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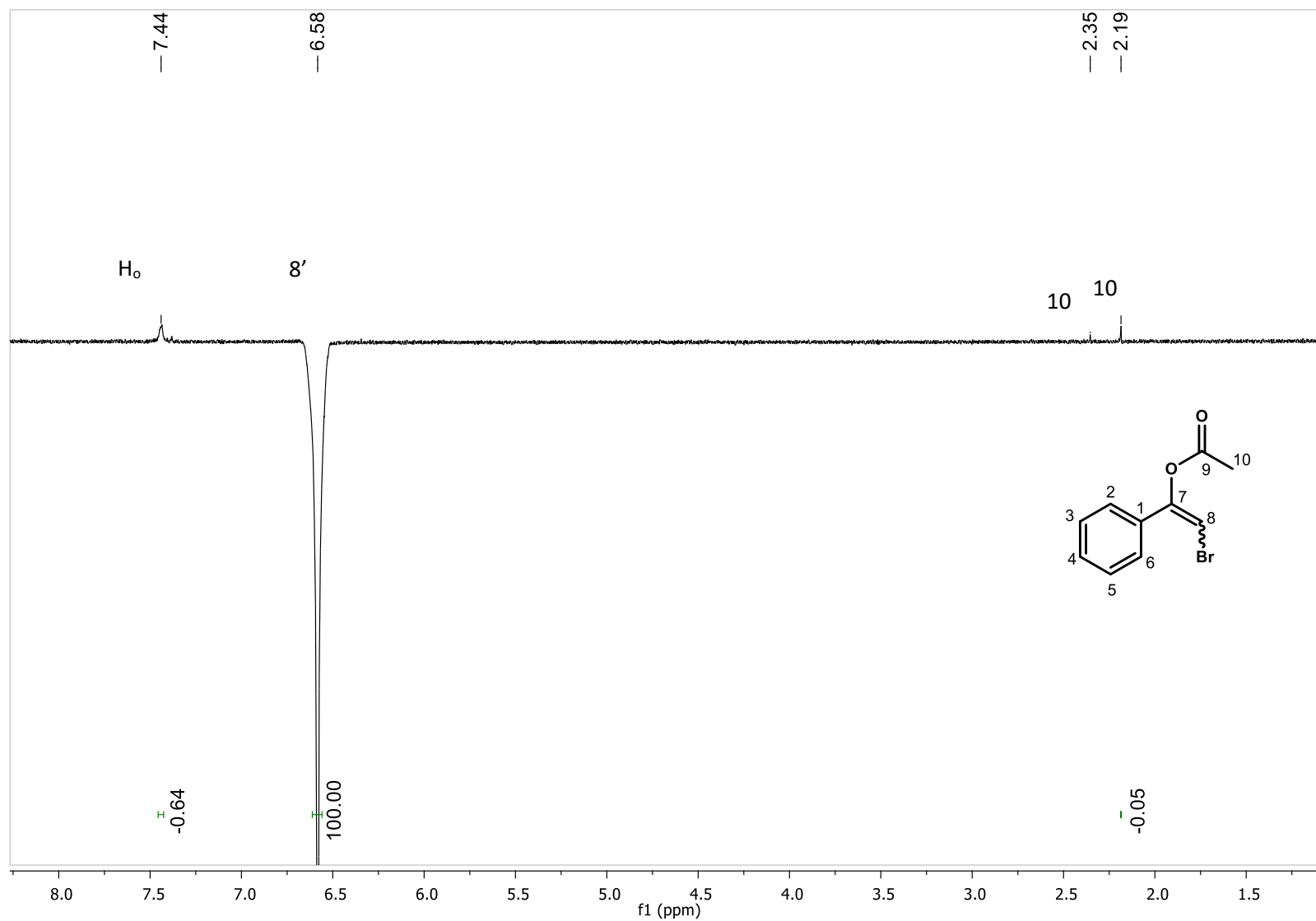
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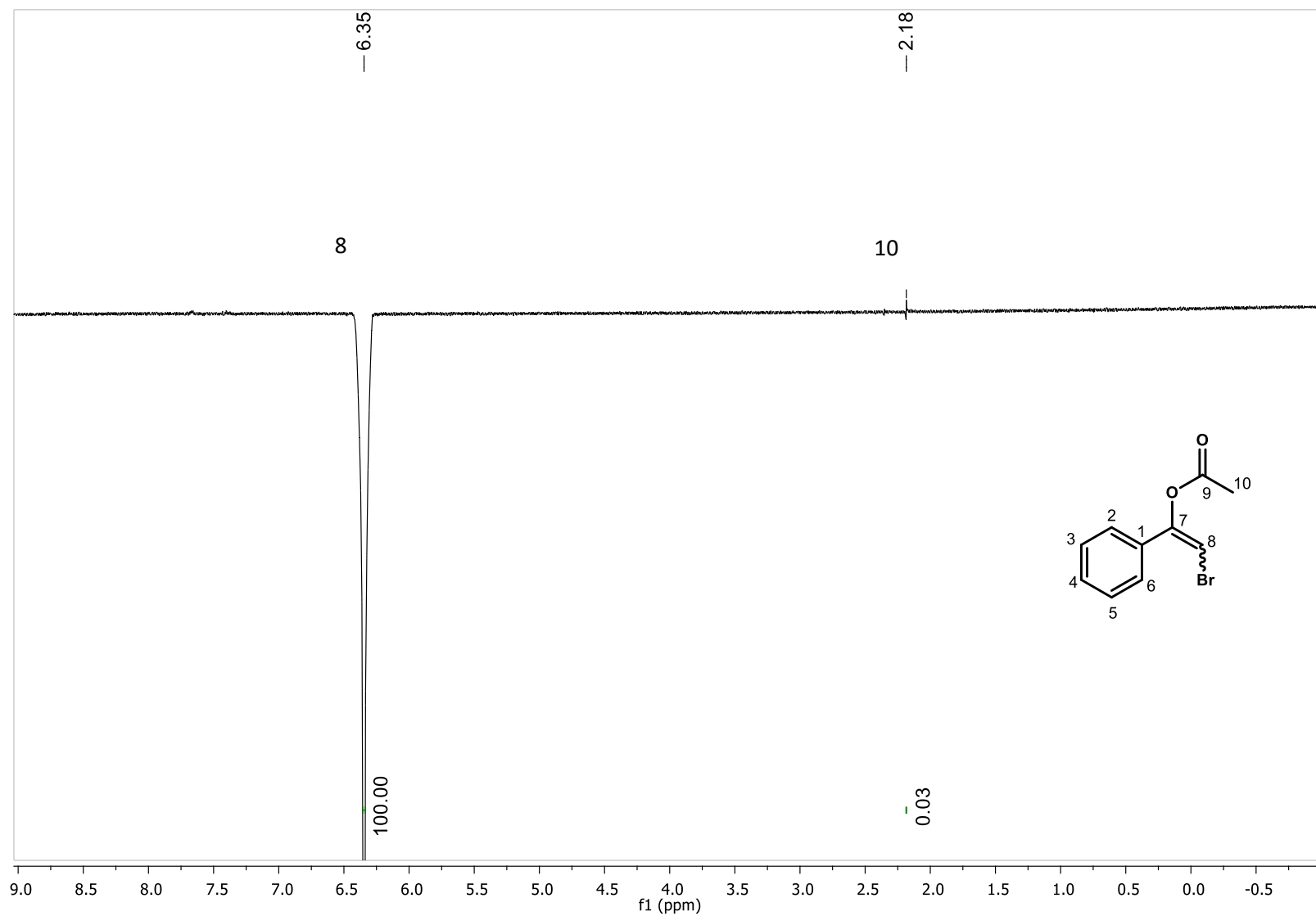
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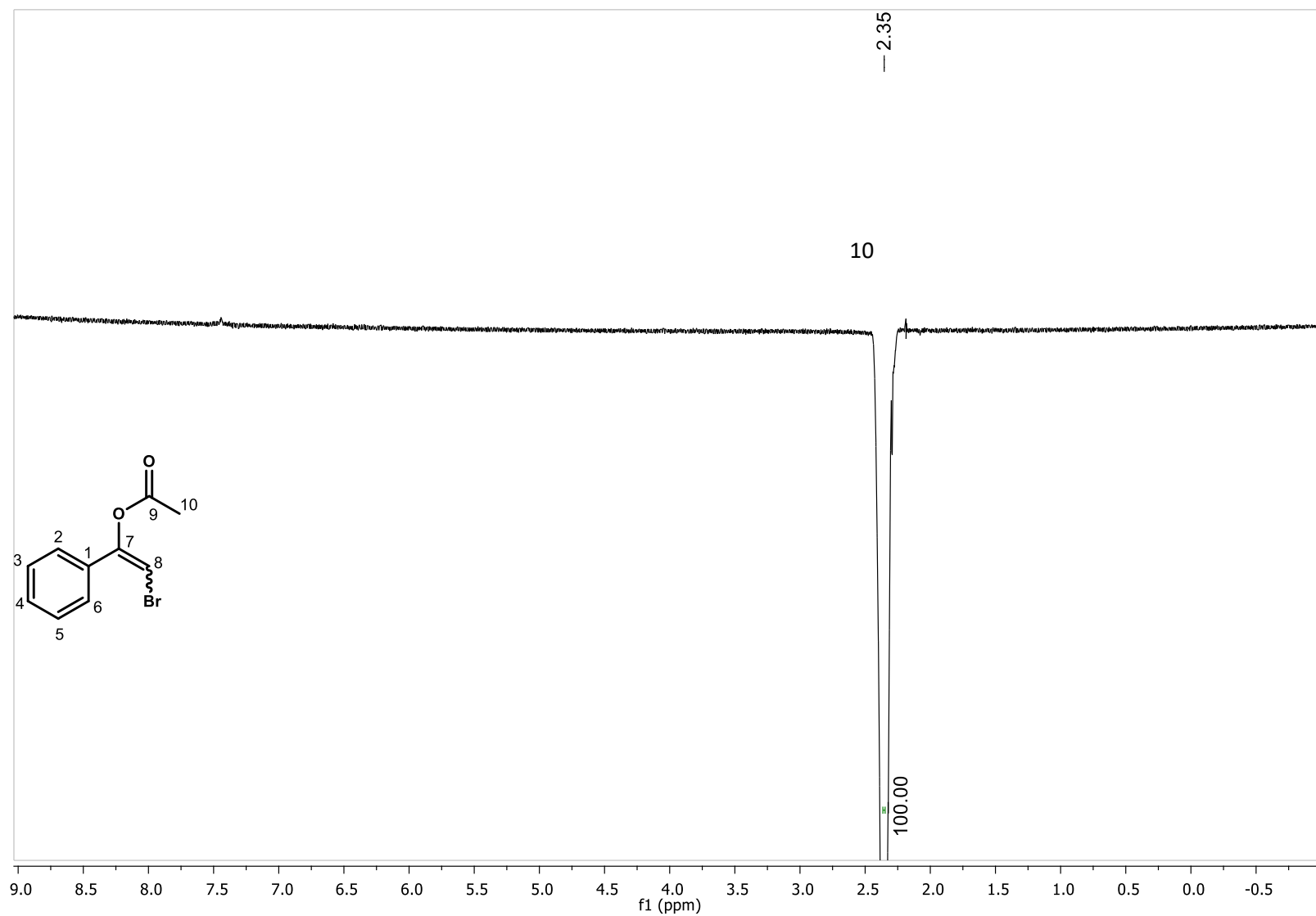
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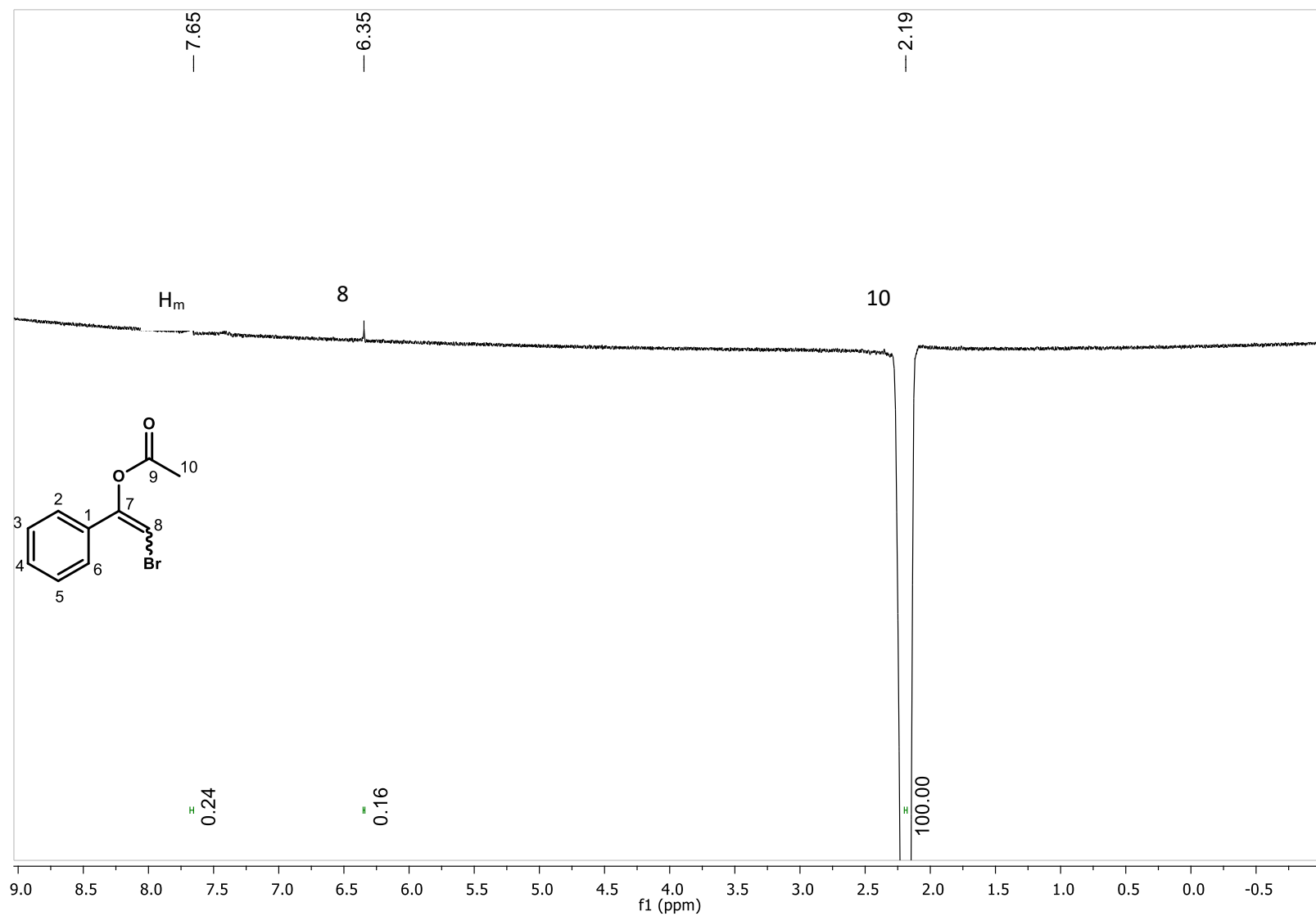
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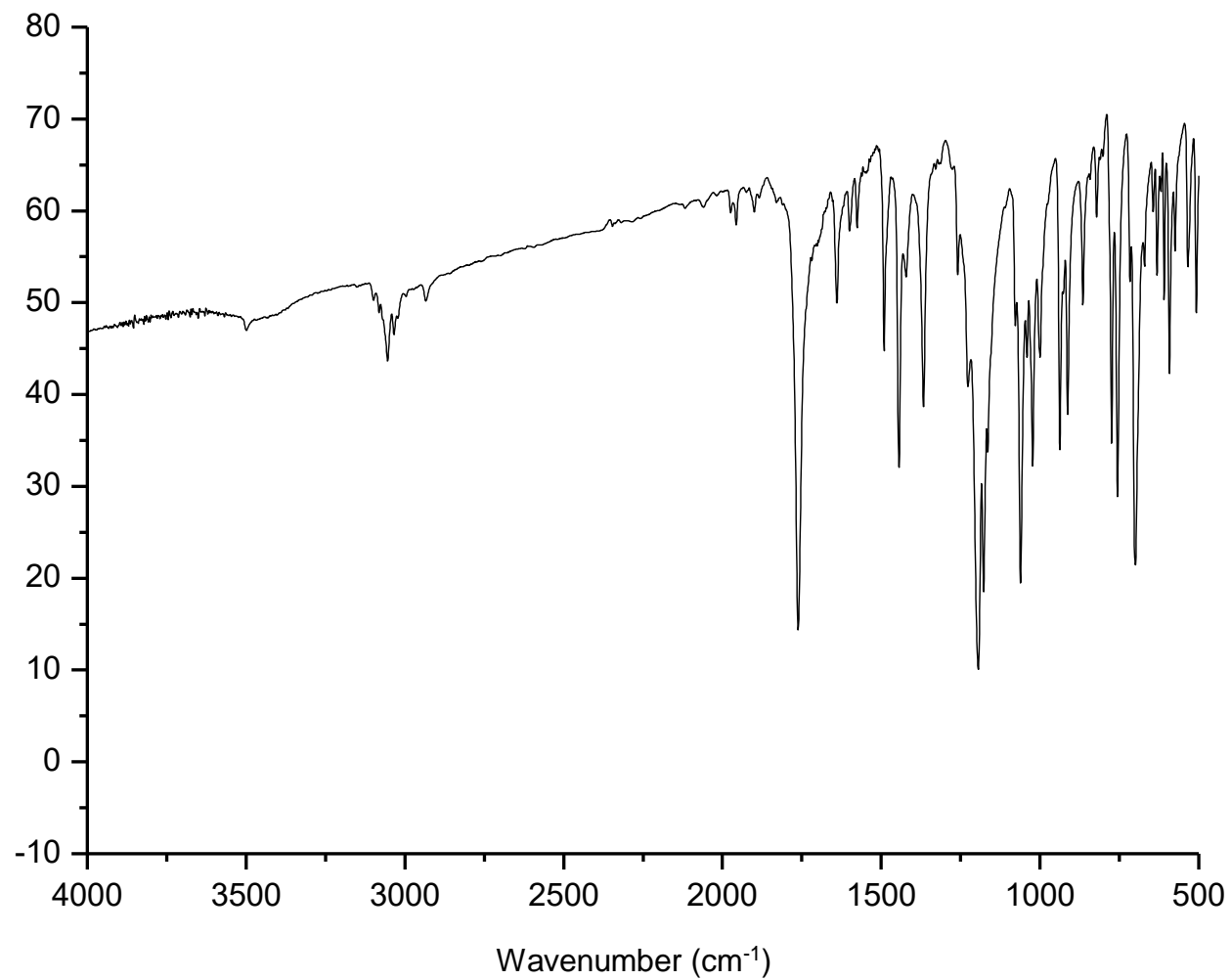
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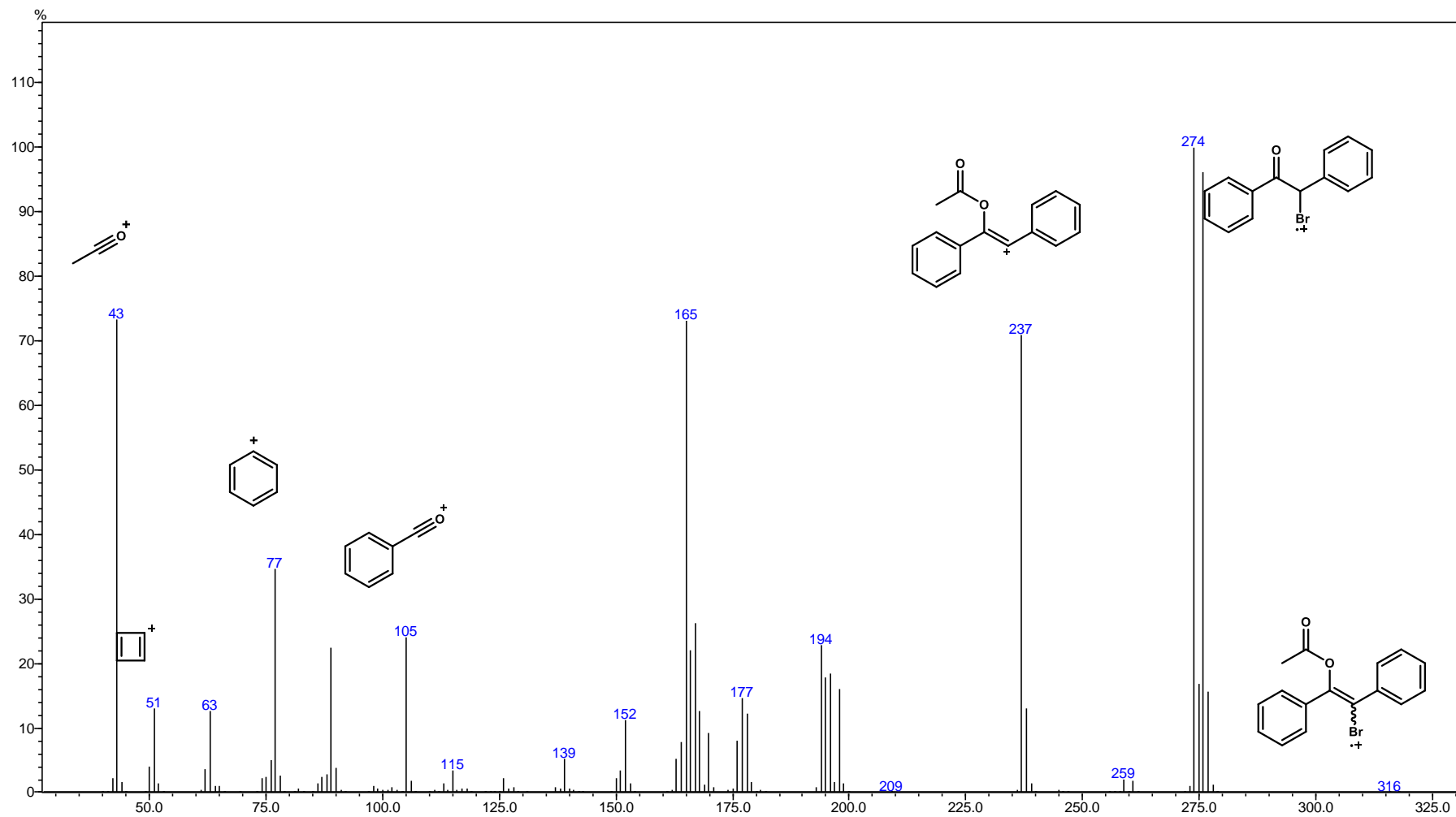
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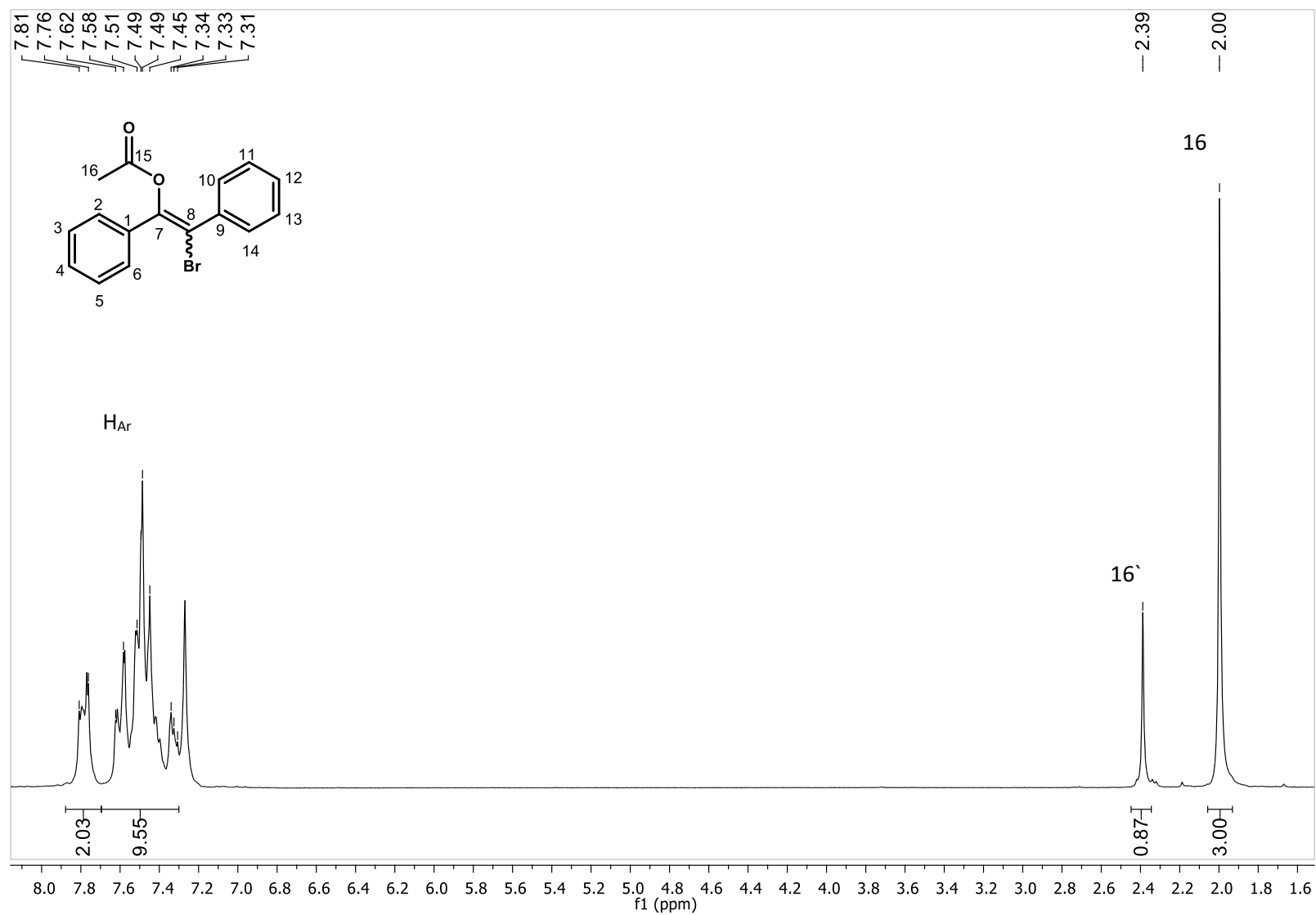
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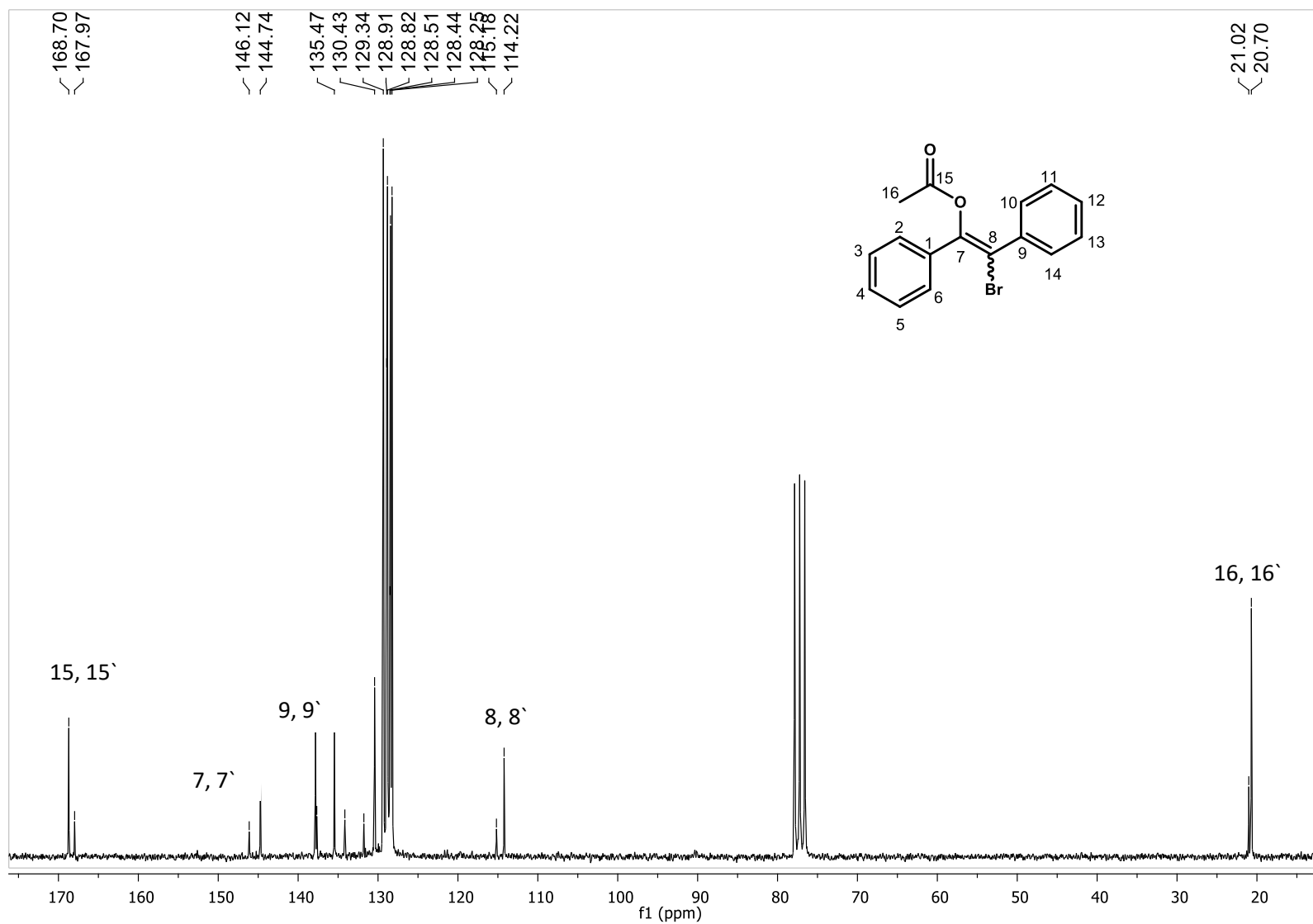
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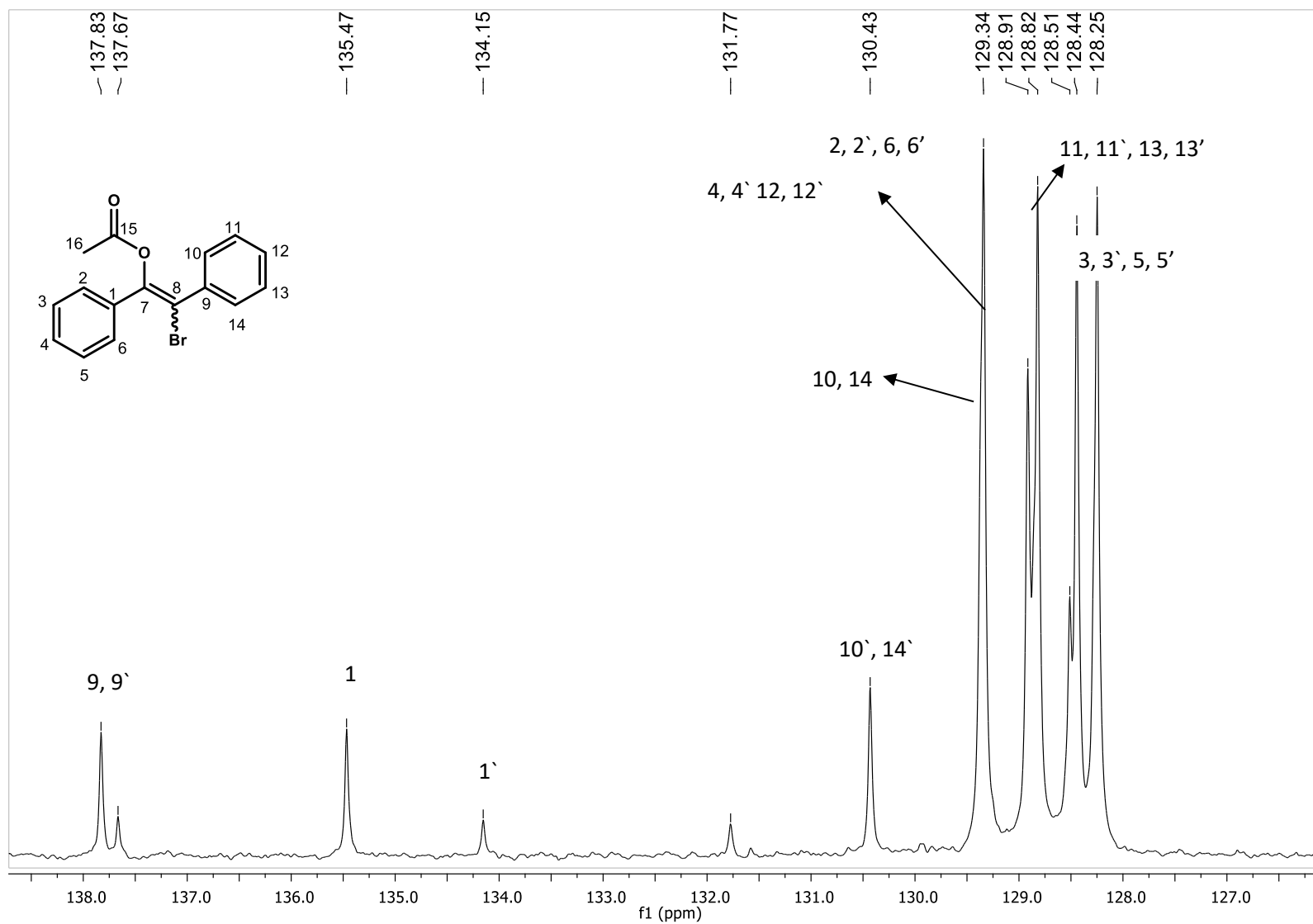
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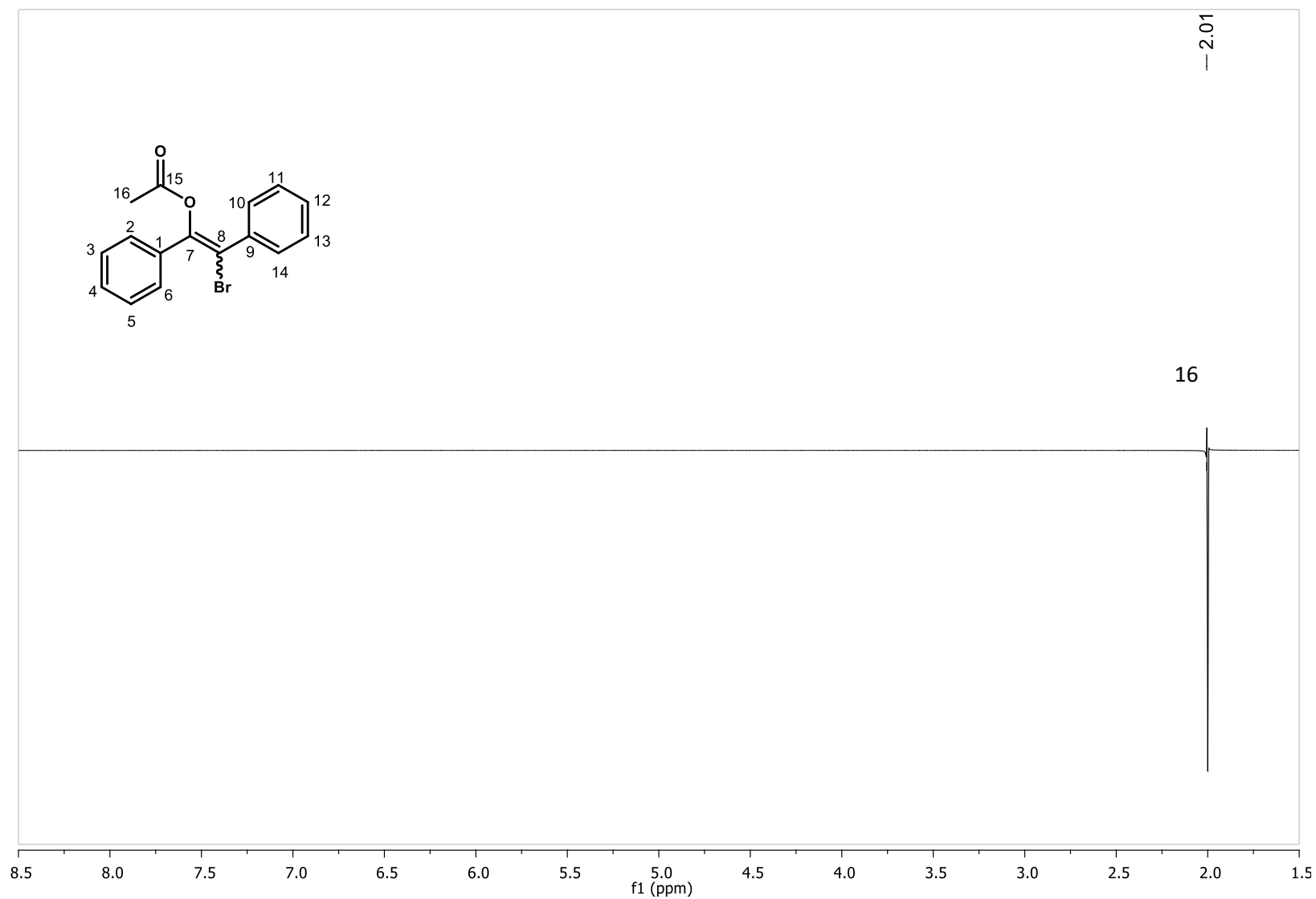
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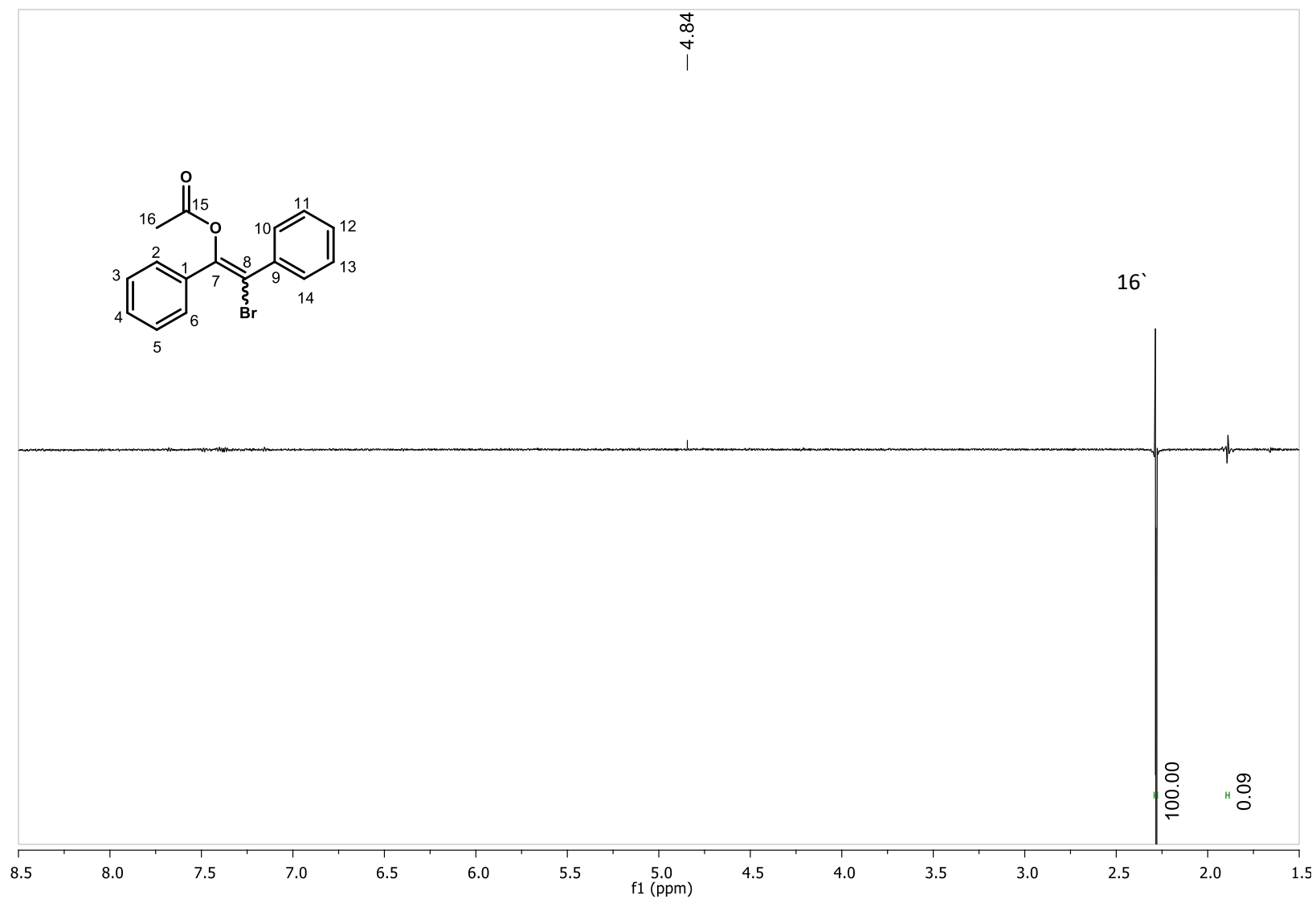
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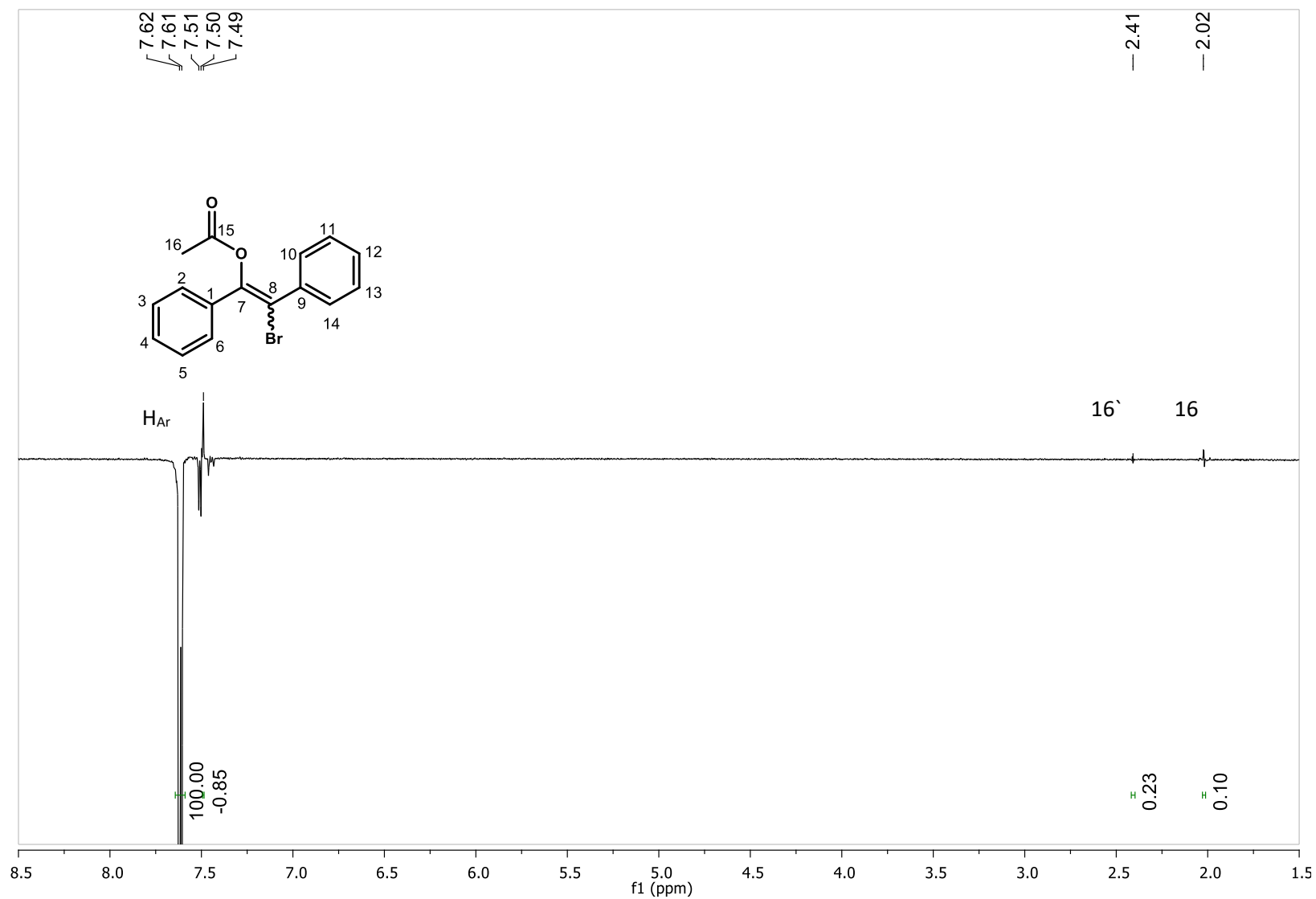
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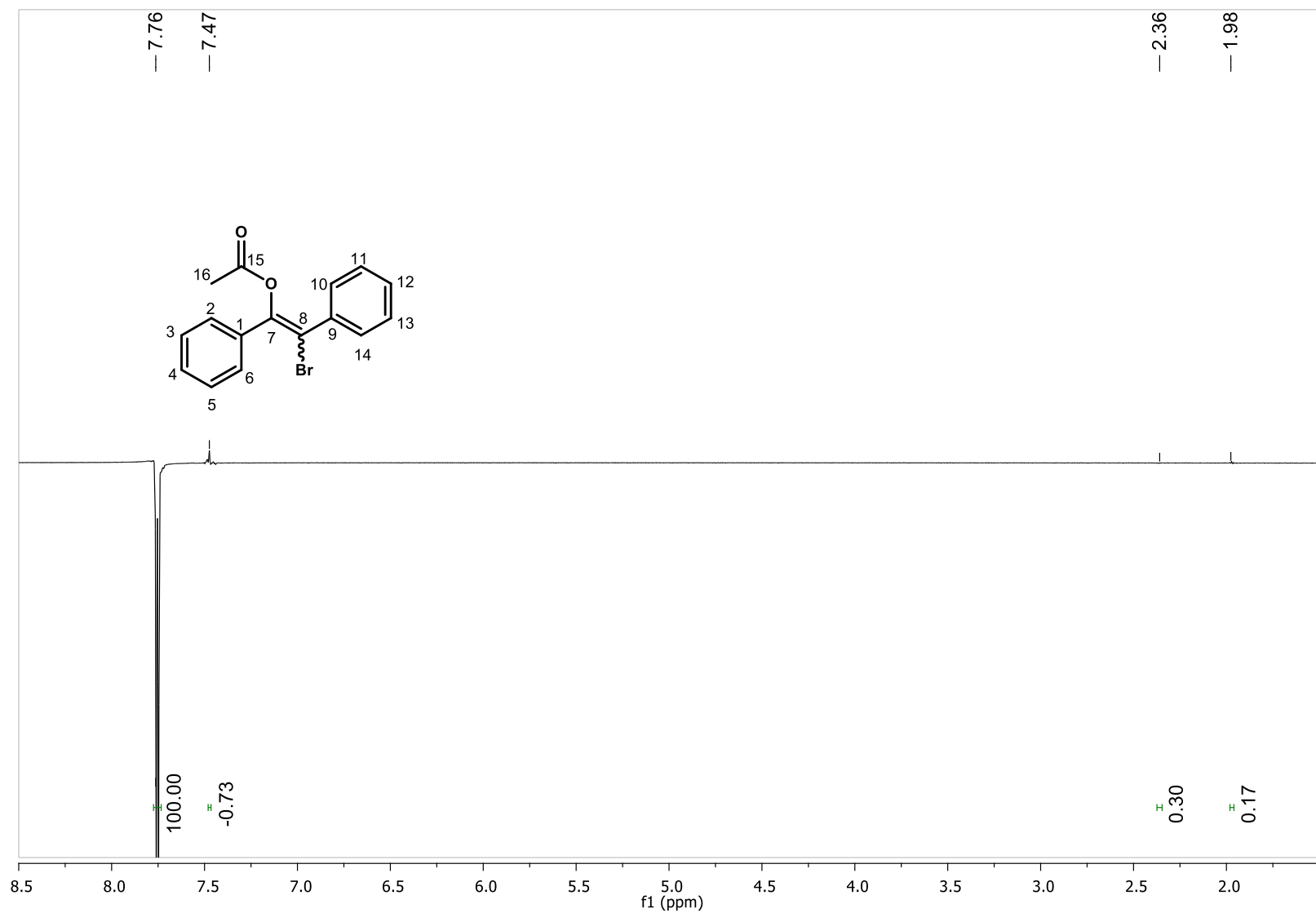
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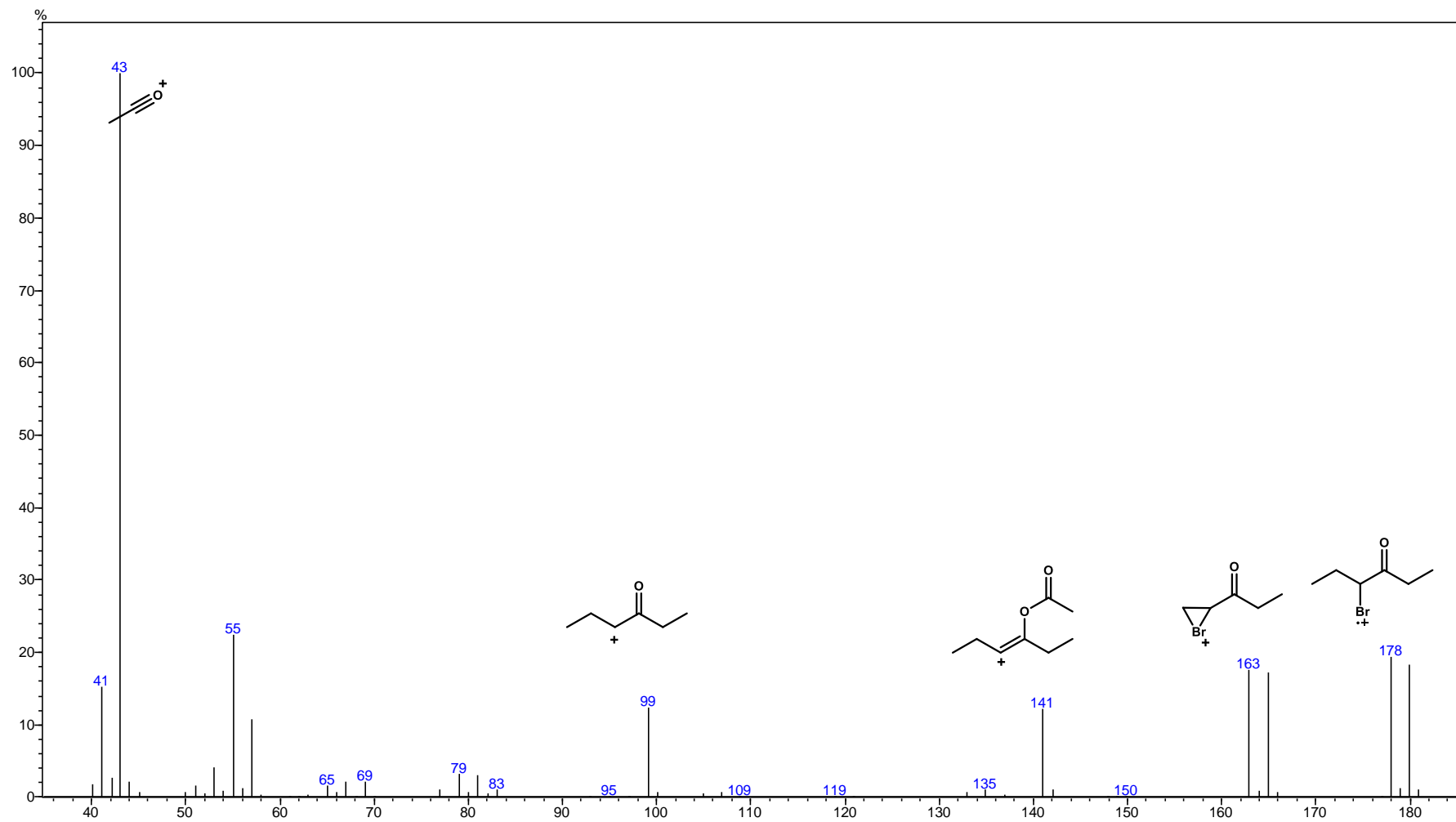
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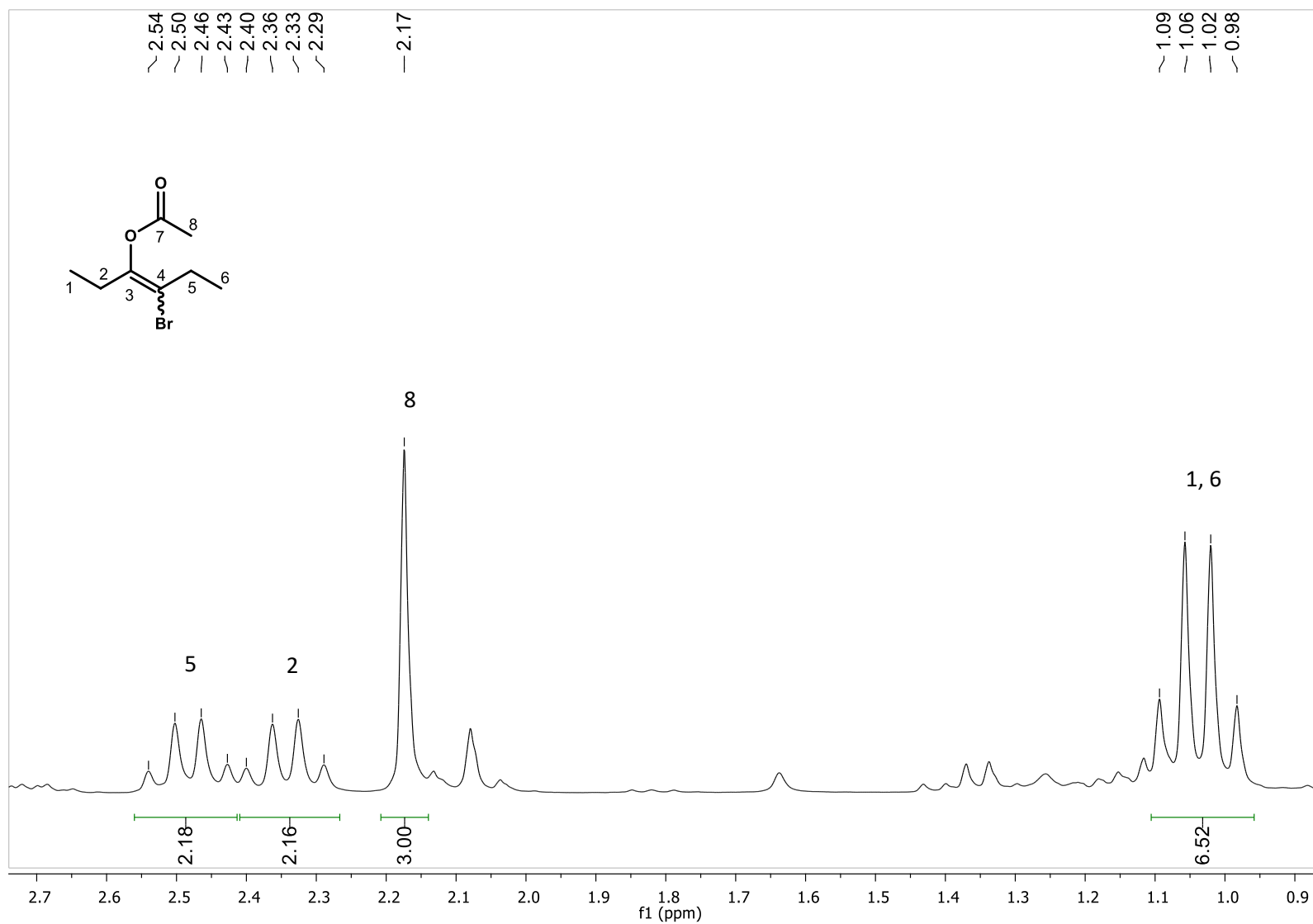
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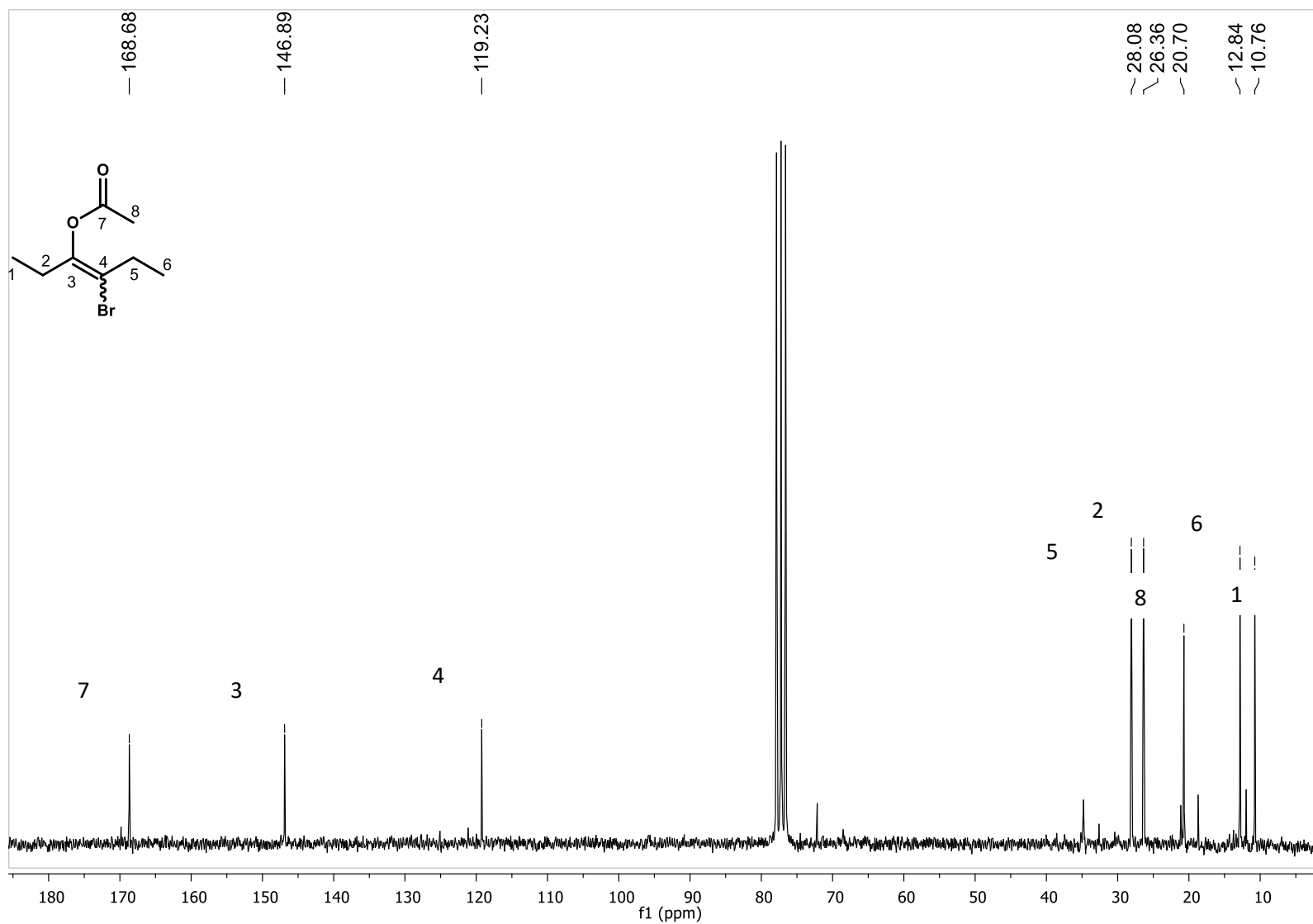


Spectrum S30. NOESY-1D of 2-bromo-1,2-diphenylvinyl acetate – irradiation of H_{Ar} (7,67 ppm).

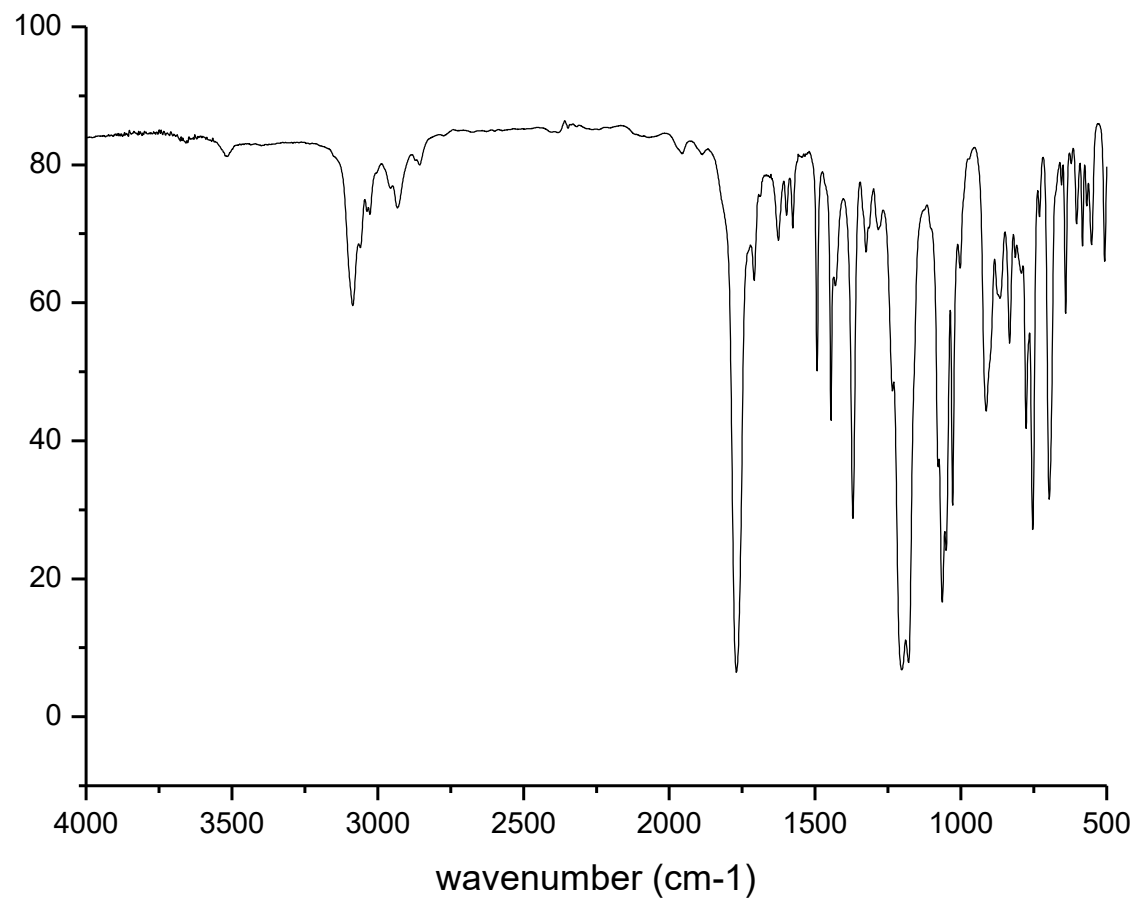


Spectrum S31. MS of 4-bromohex-3-en-3-yl acetate.

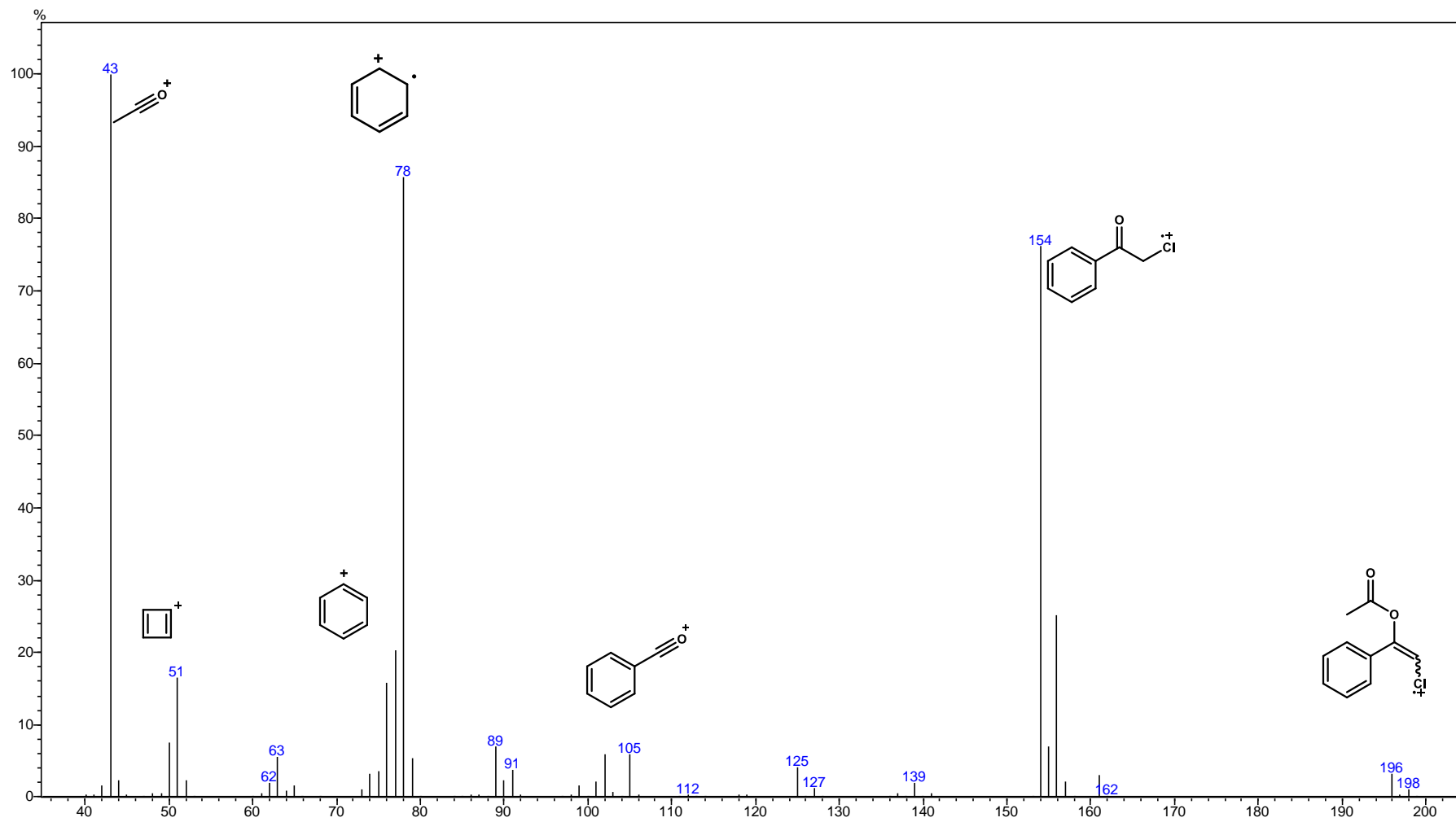
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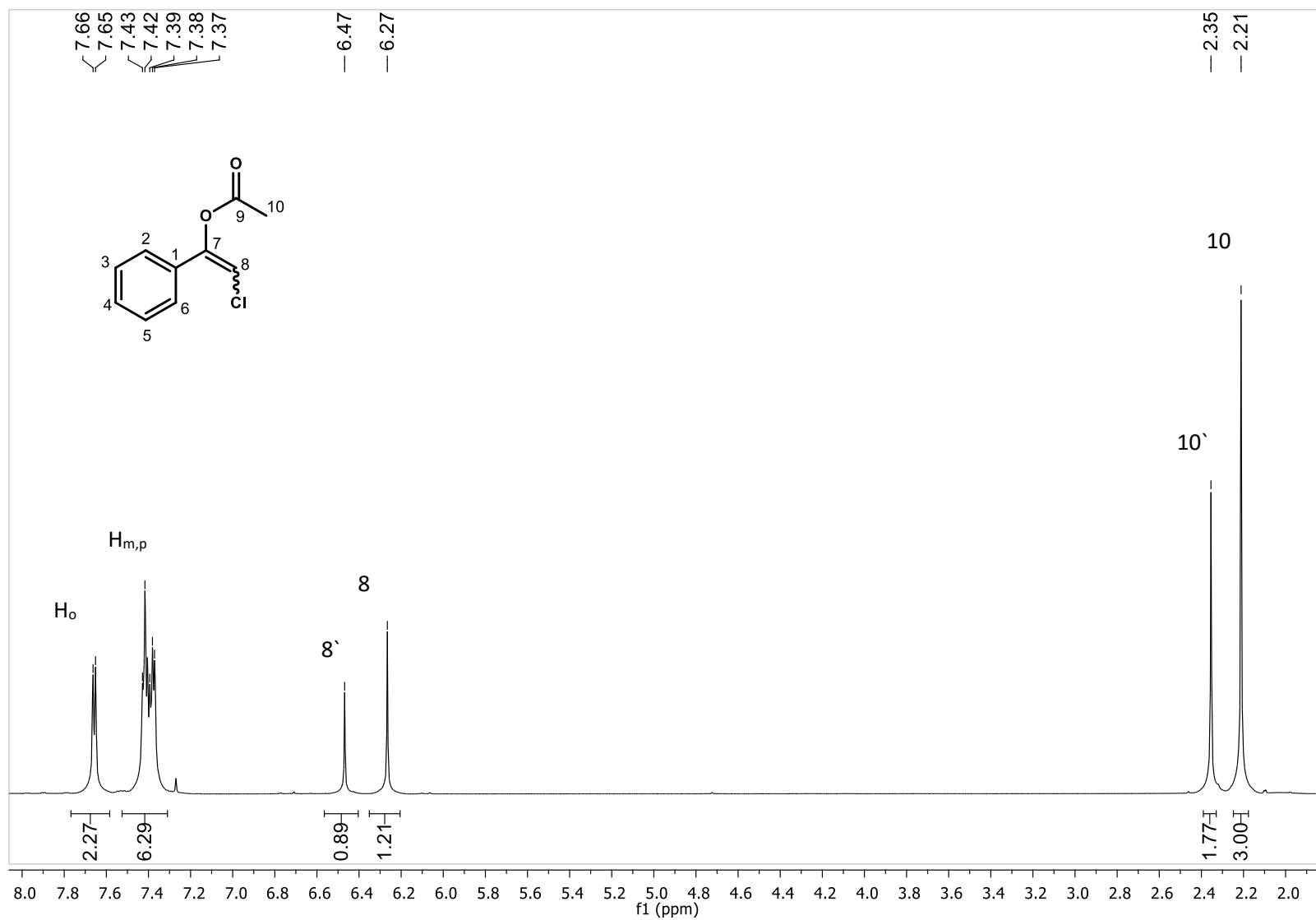
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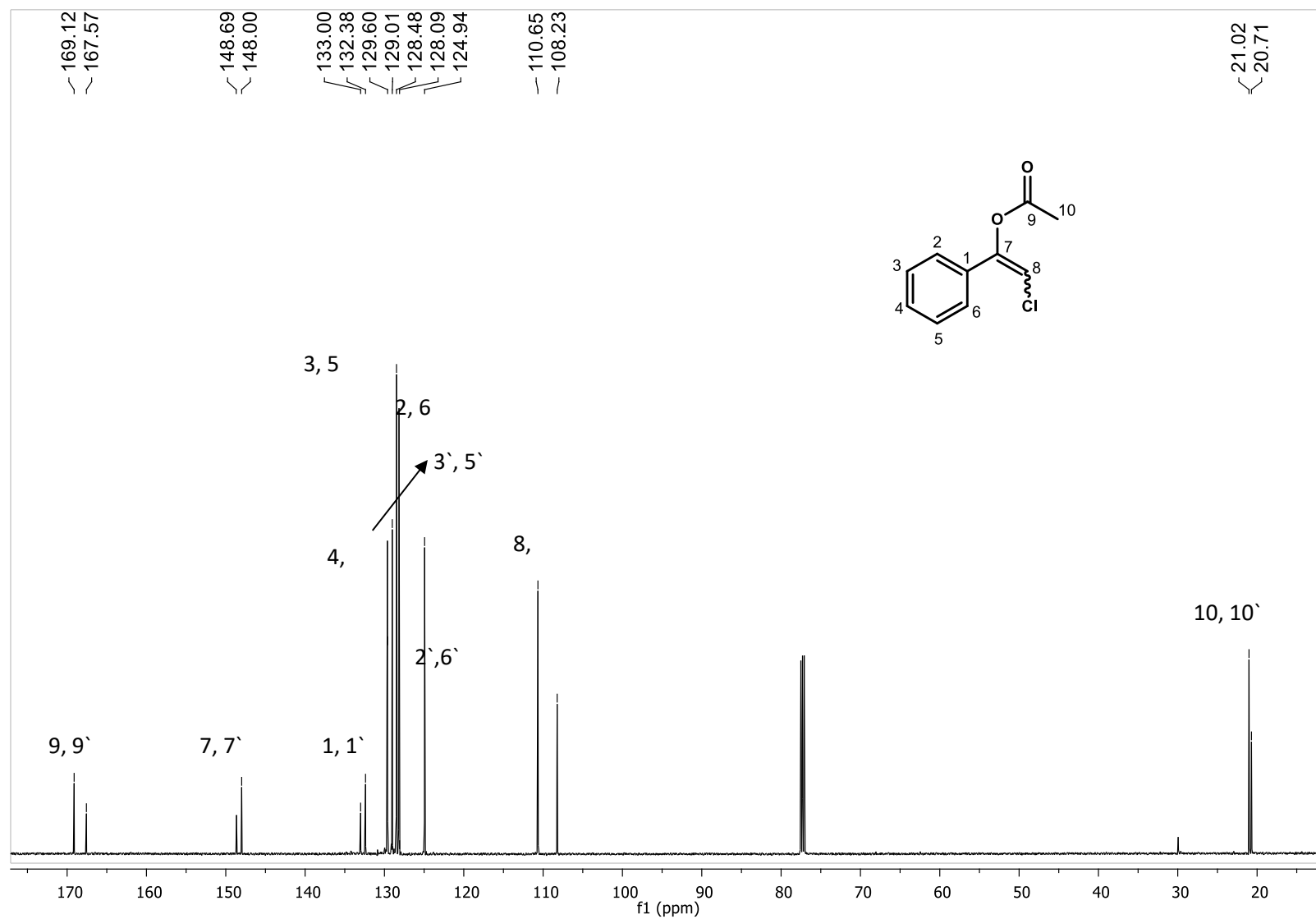


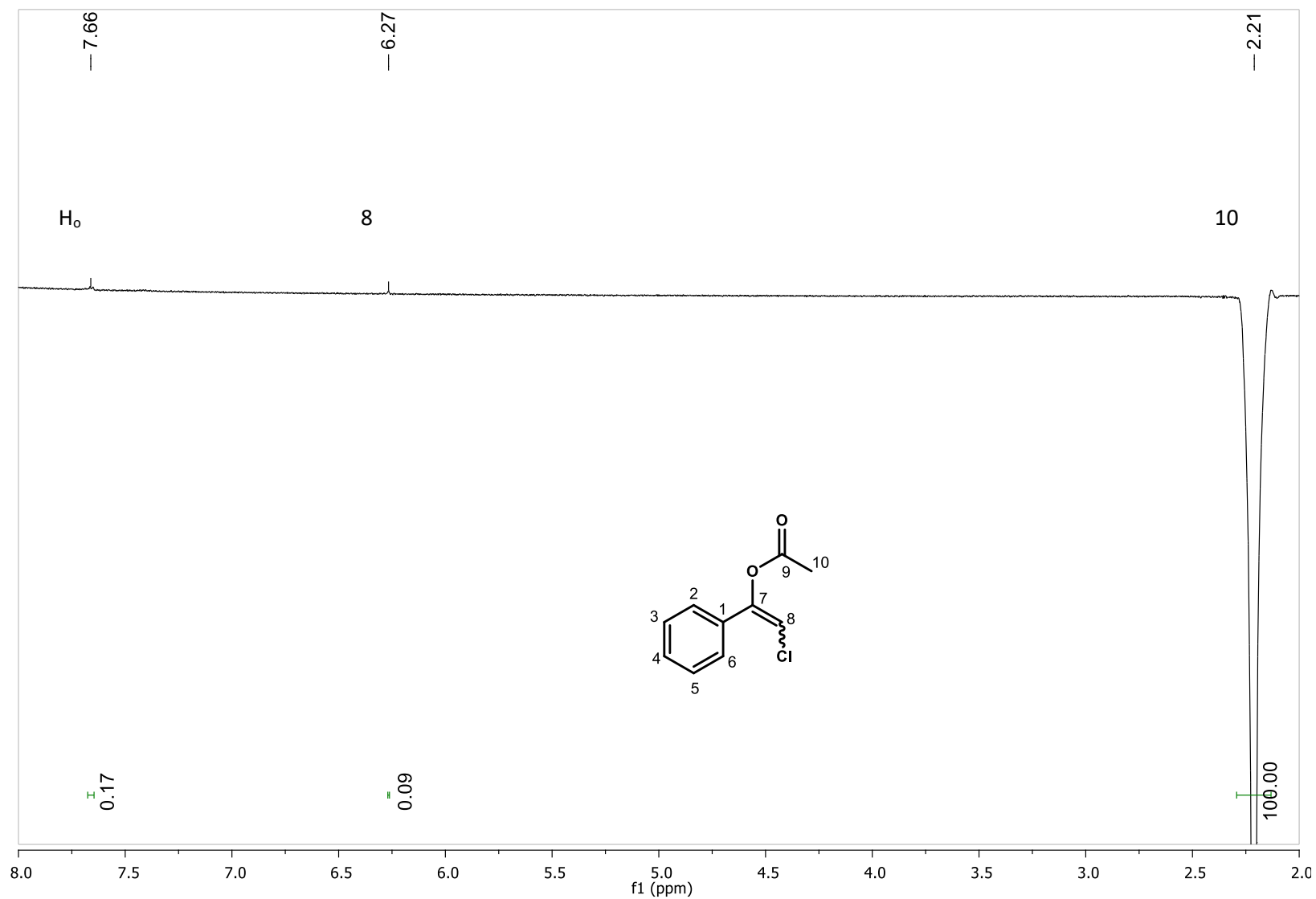
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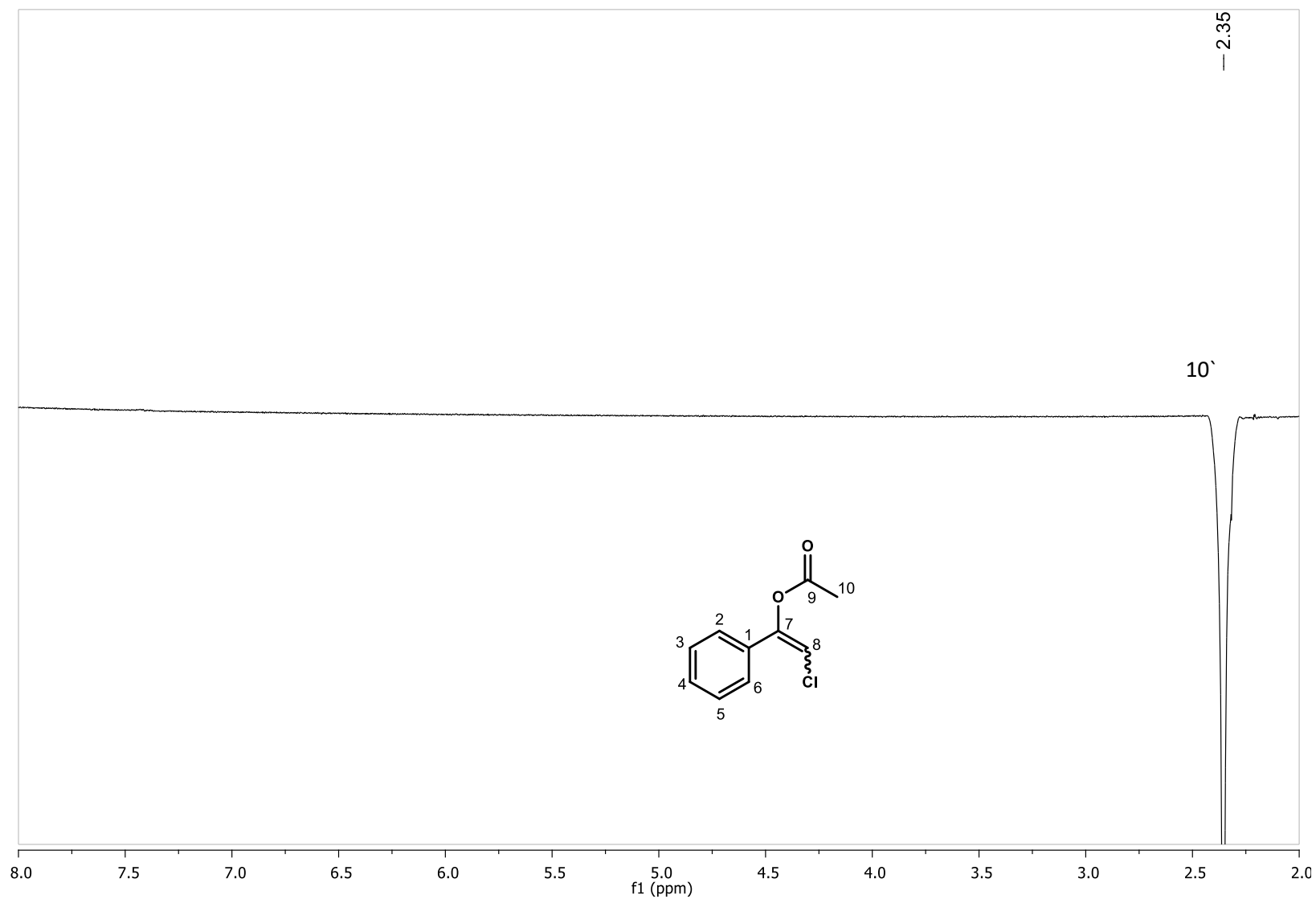
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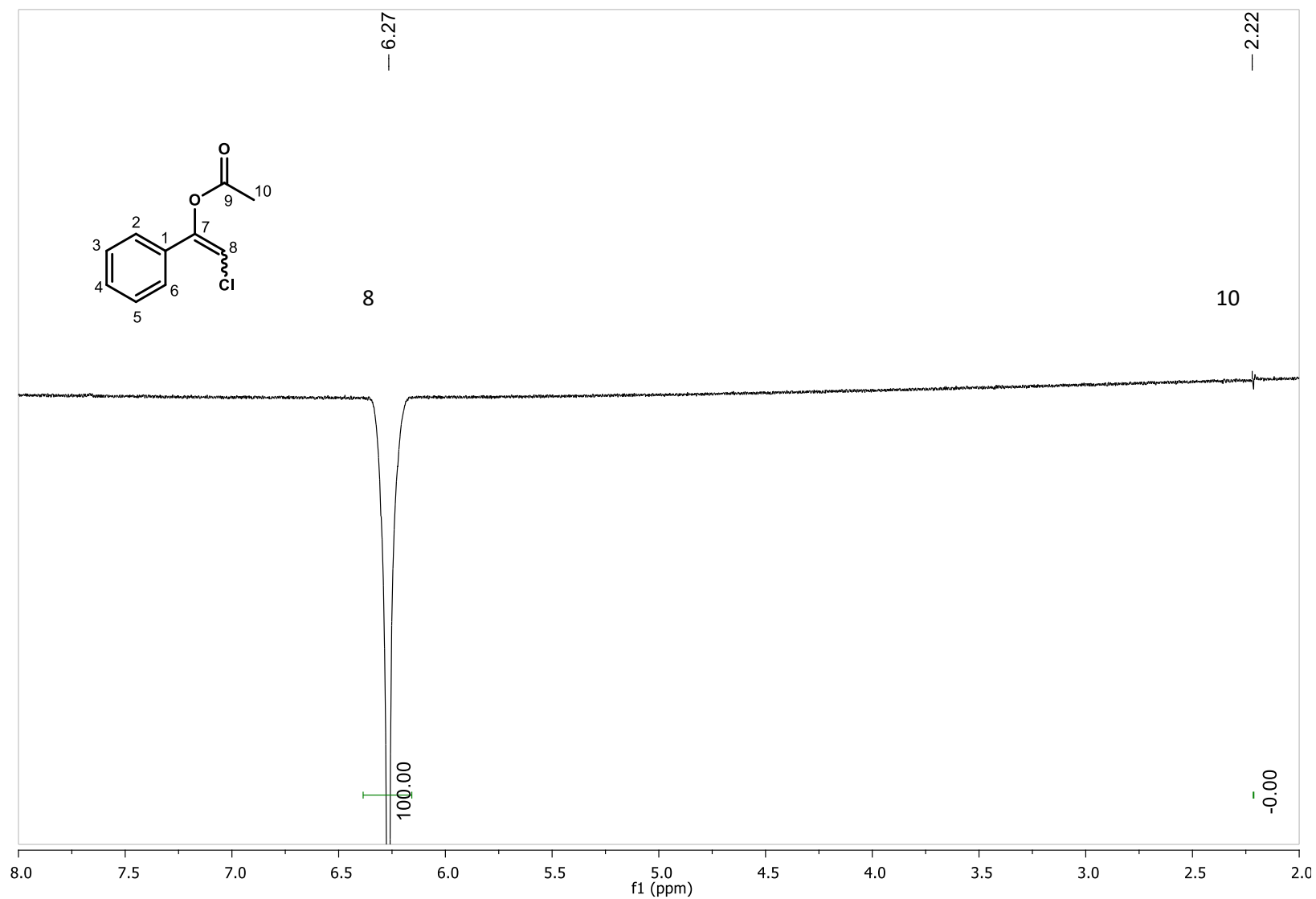
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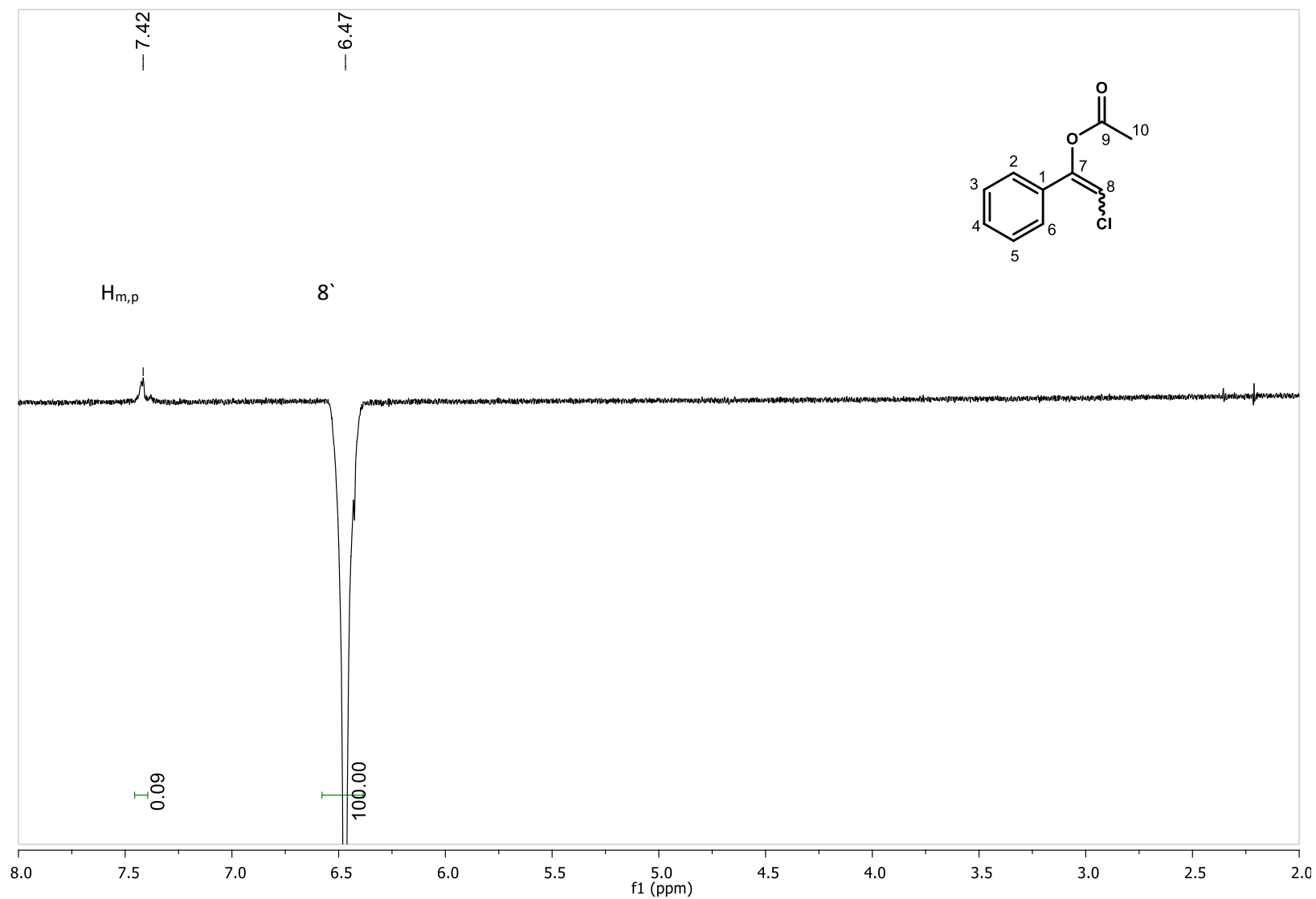
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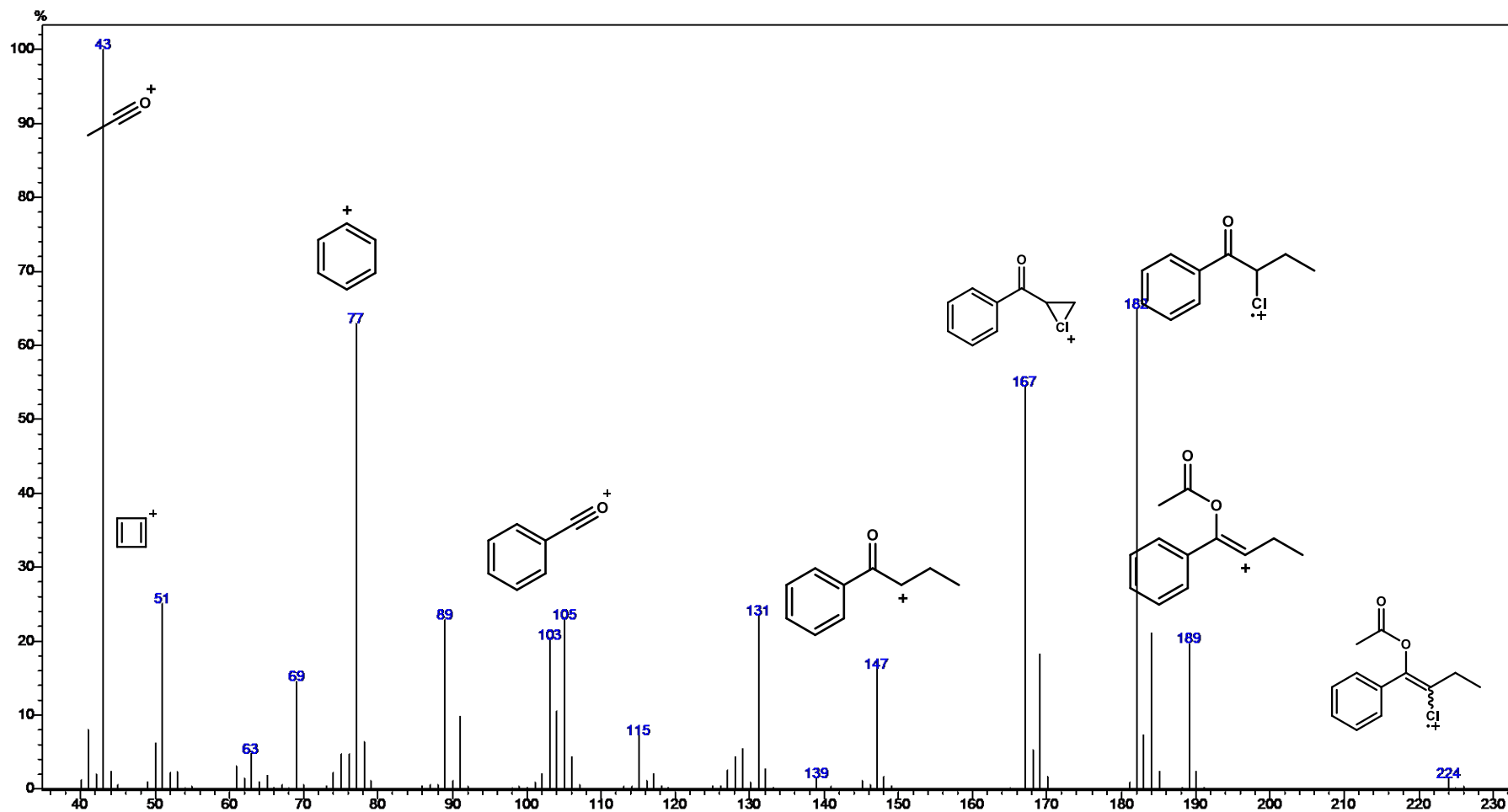
Spectrum S39. NOESY-1D of 2-chloro-1-phenylvinyl acetate – irradiation H10.



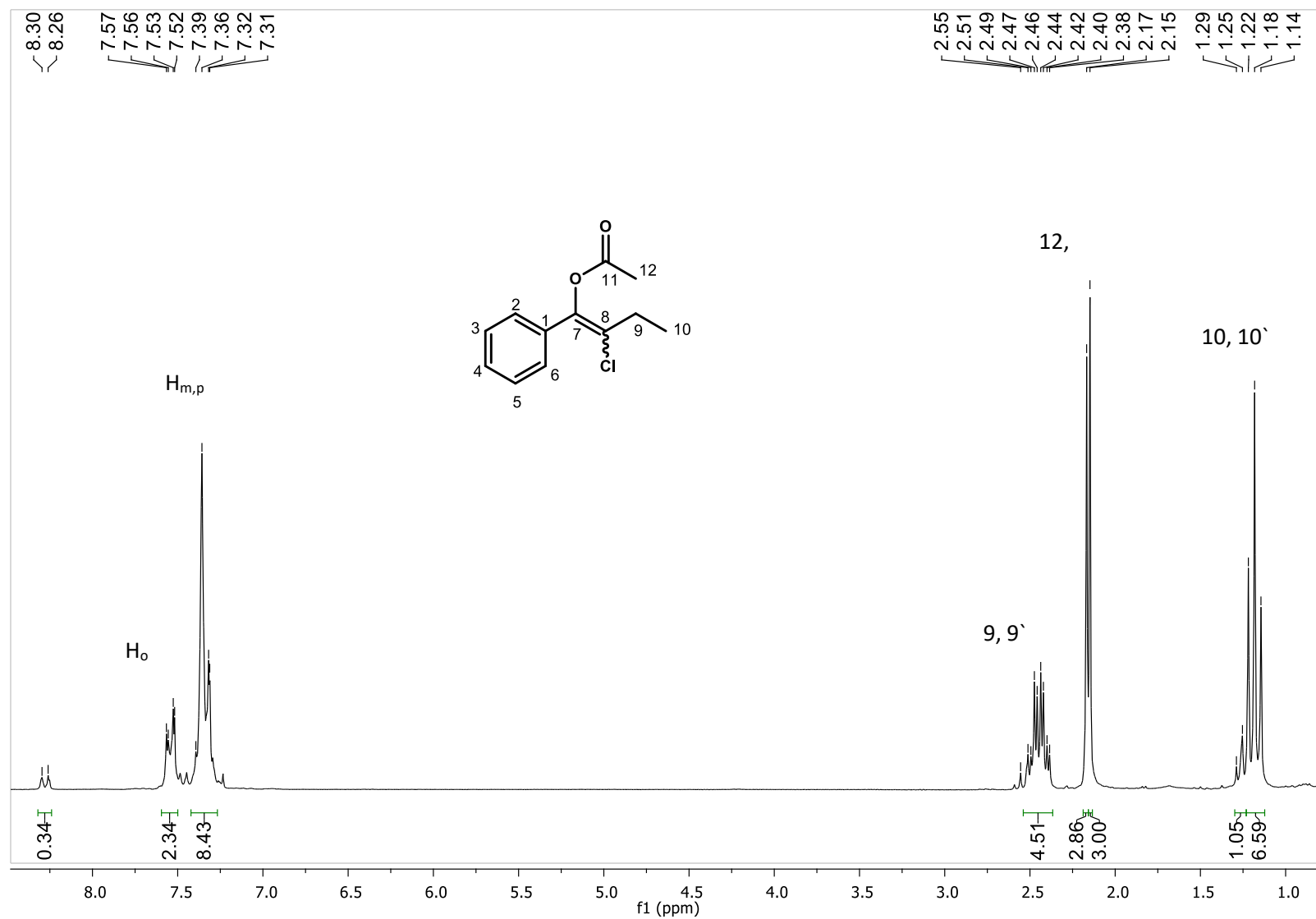
Spectrum S40. NOESY-1D of 2-chloro-1-phenylvinyl acetate – irradiation H8.

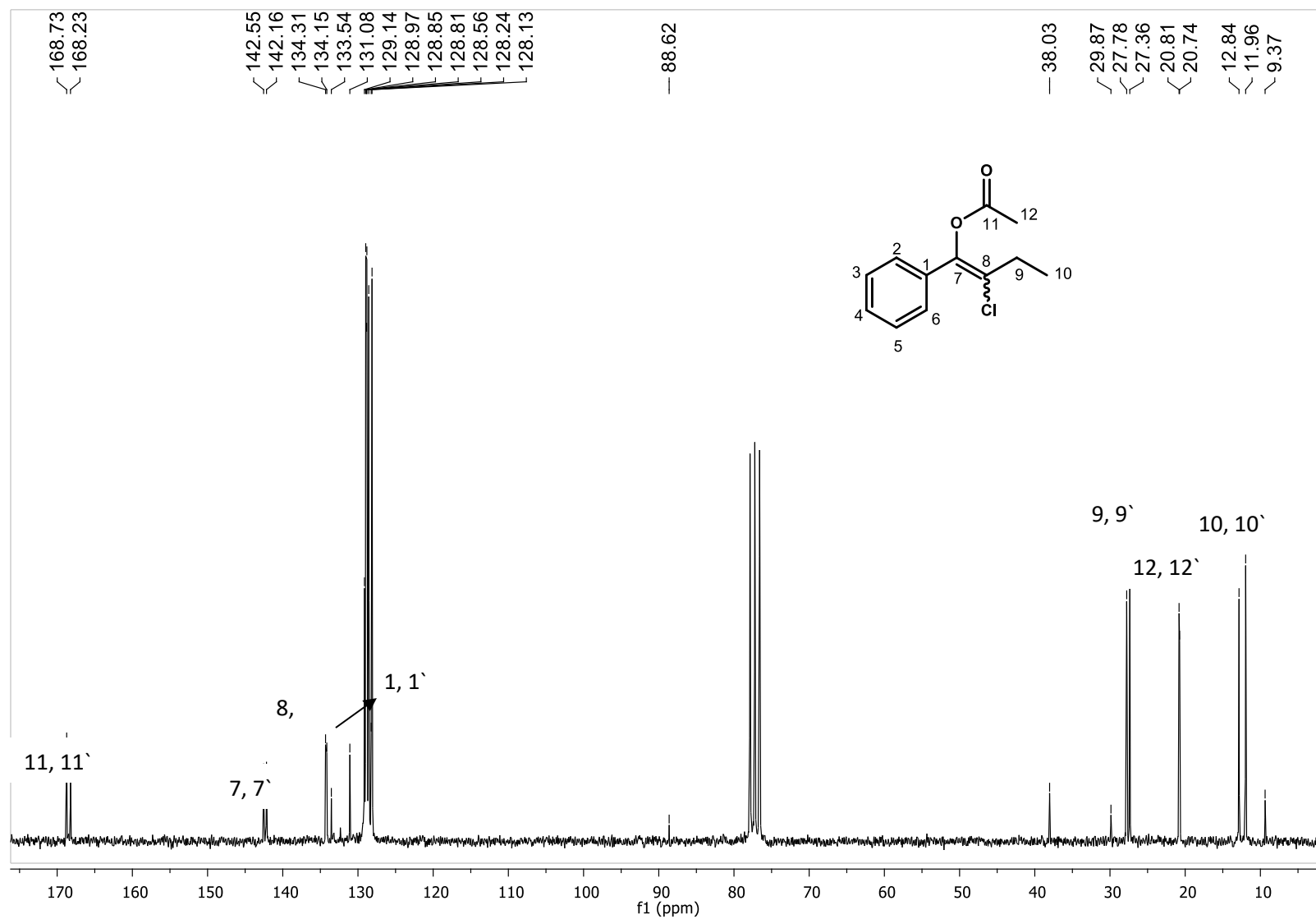


Spectrum S41. NOESY-1D of 2-chloro-1-phenylvinyl acetate – irradiation $H_{8'}$.

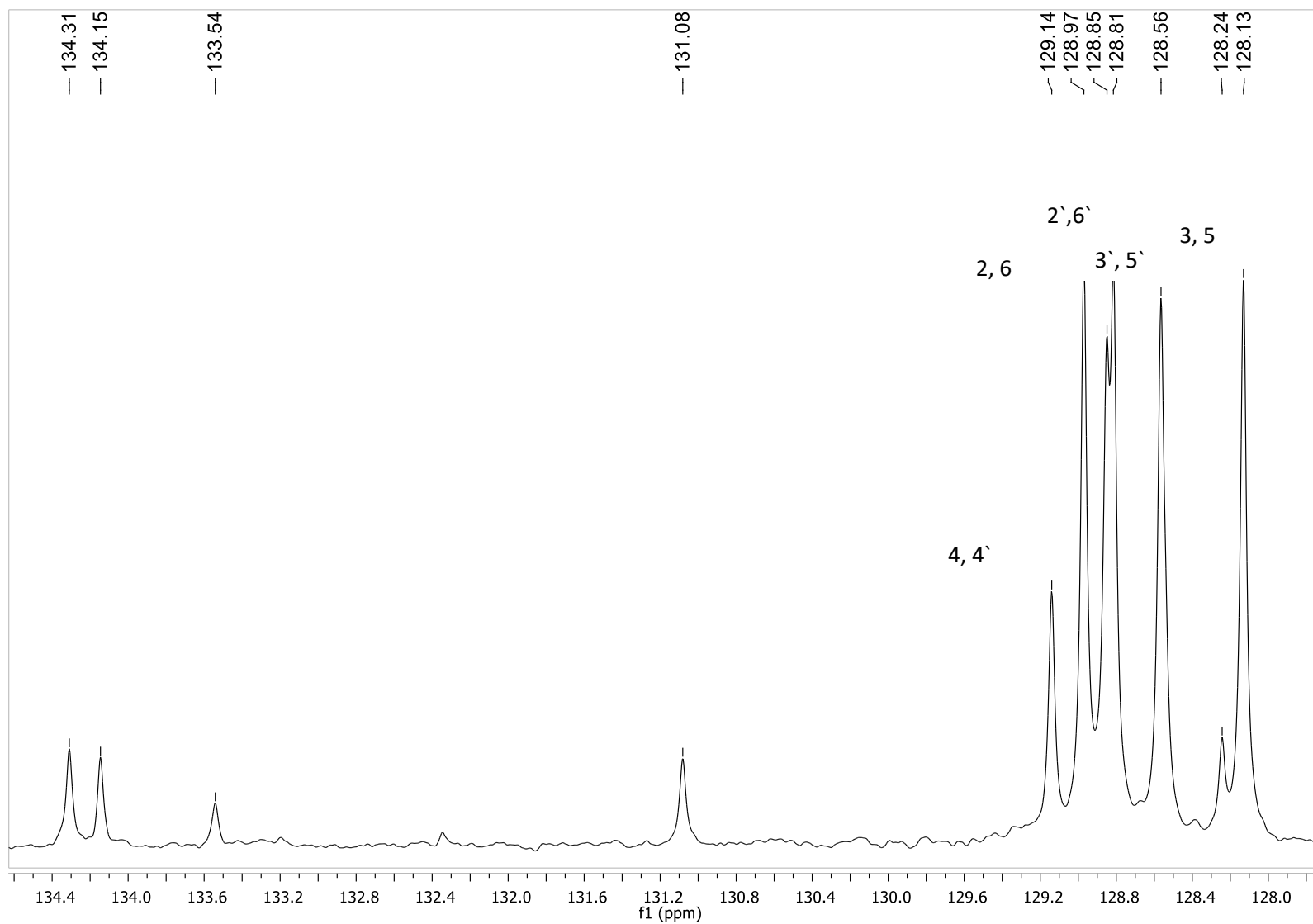


Spectrum S42. MS of 2-chloro-1-phenylbut-1-en-1-yl acetate.

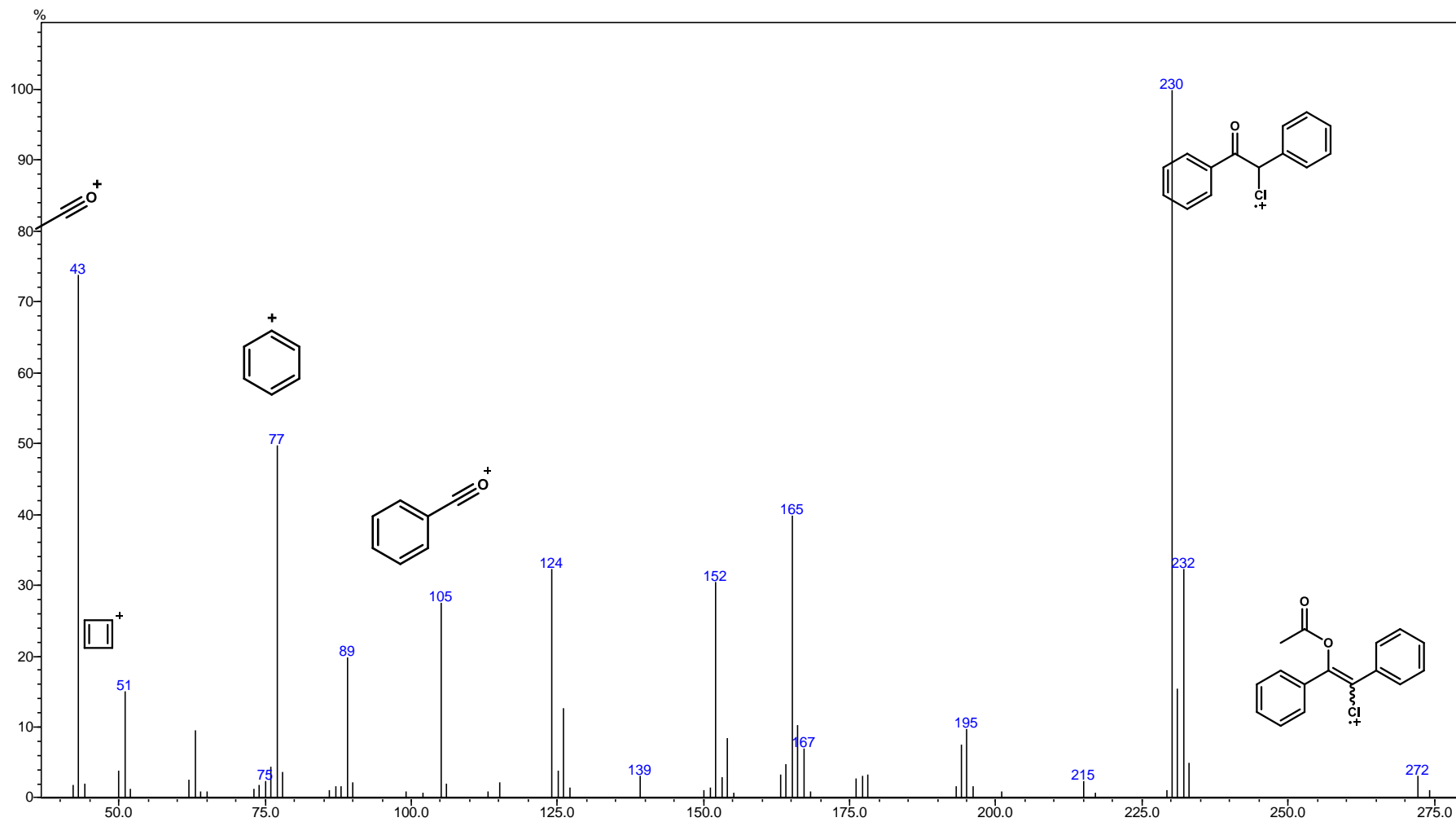
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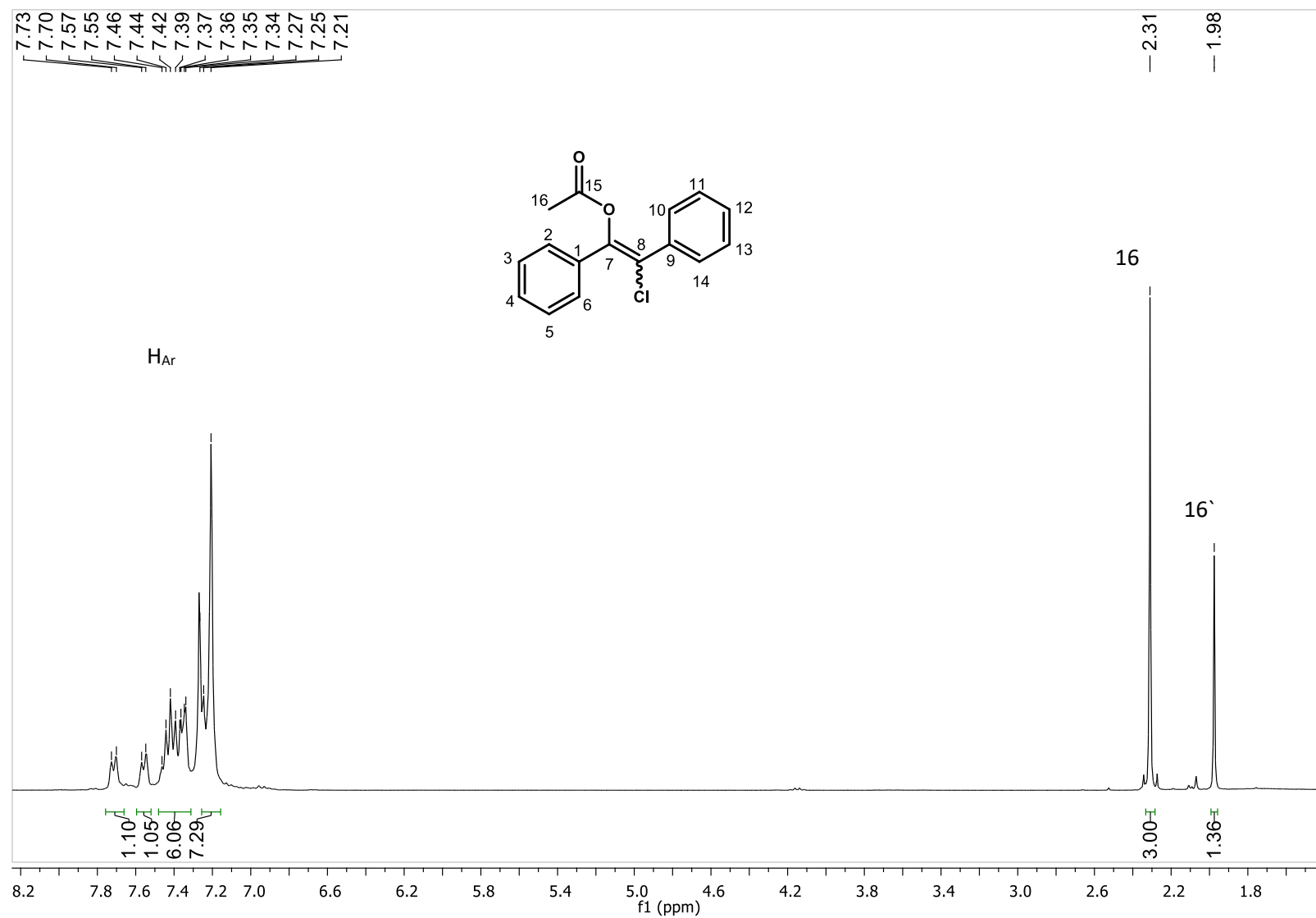
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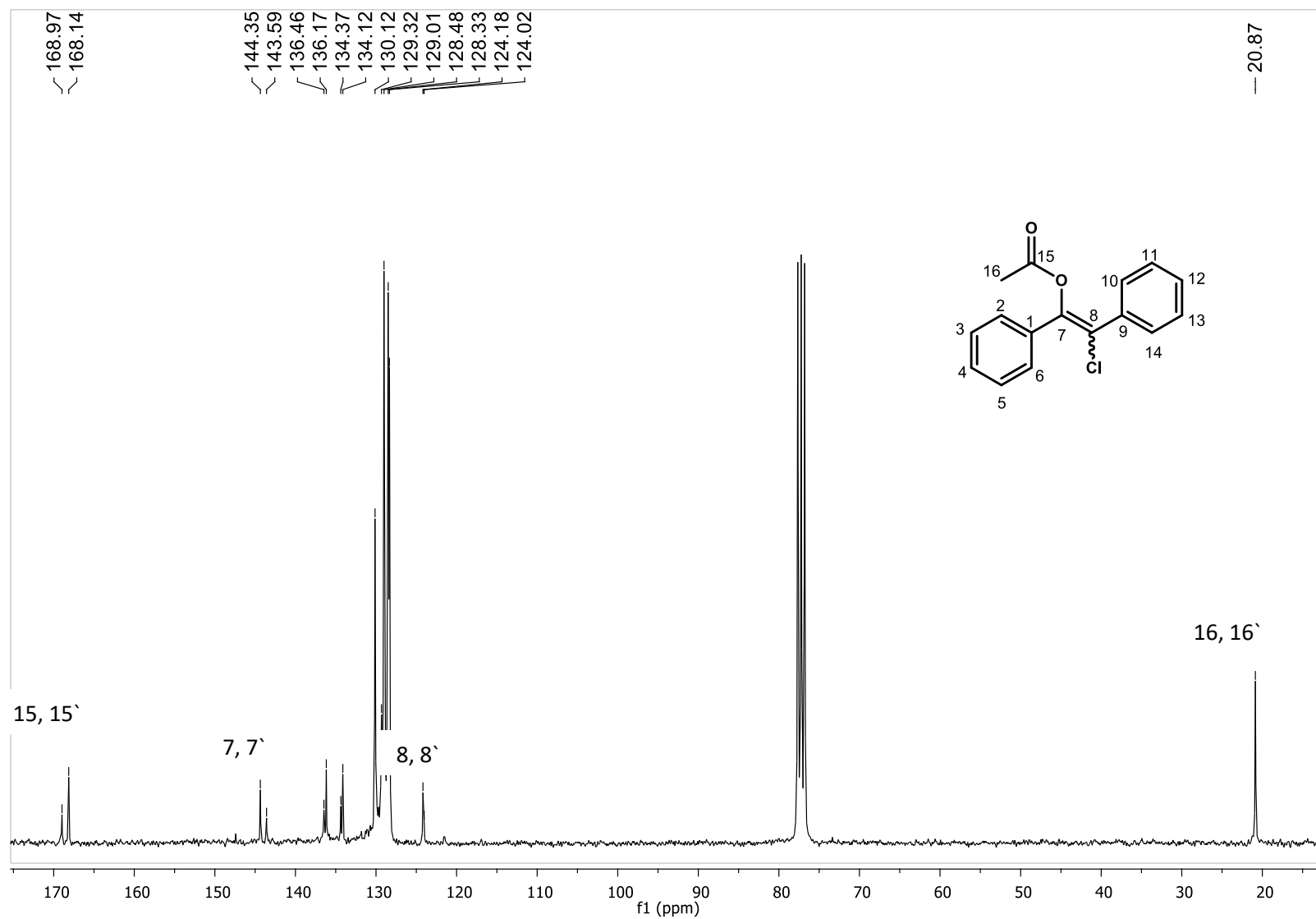


Spectrum S45. Expansion of ^{13}C NMR of 2-chloro-1-phenylbut-1-en-1-yl acetate.

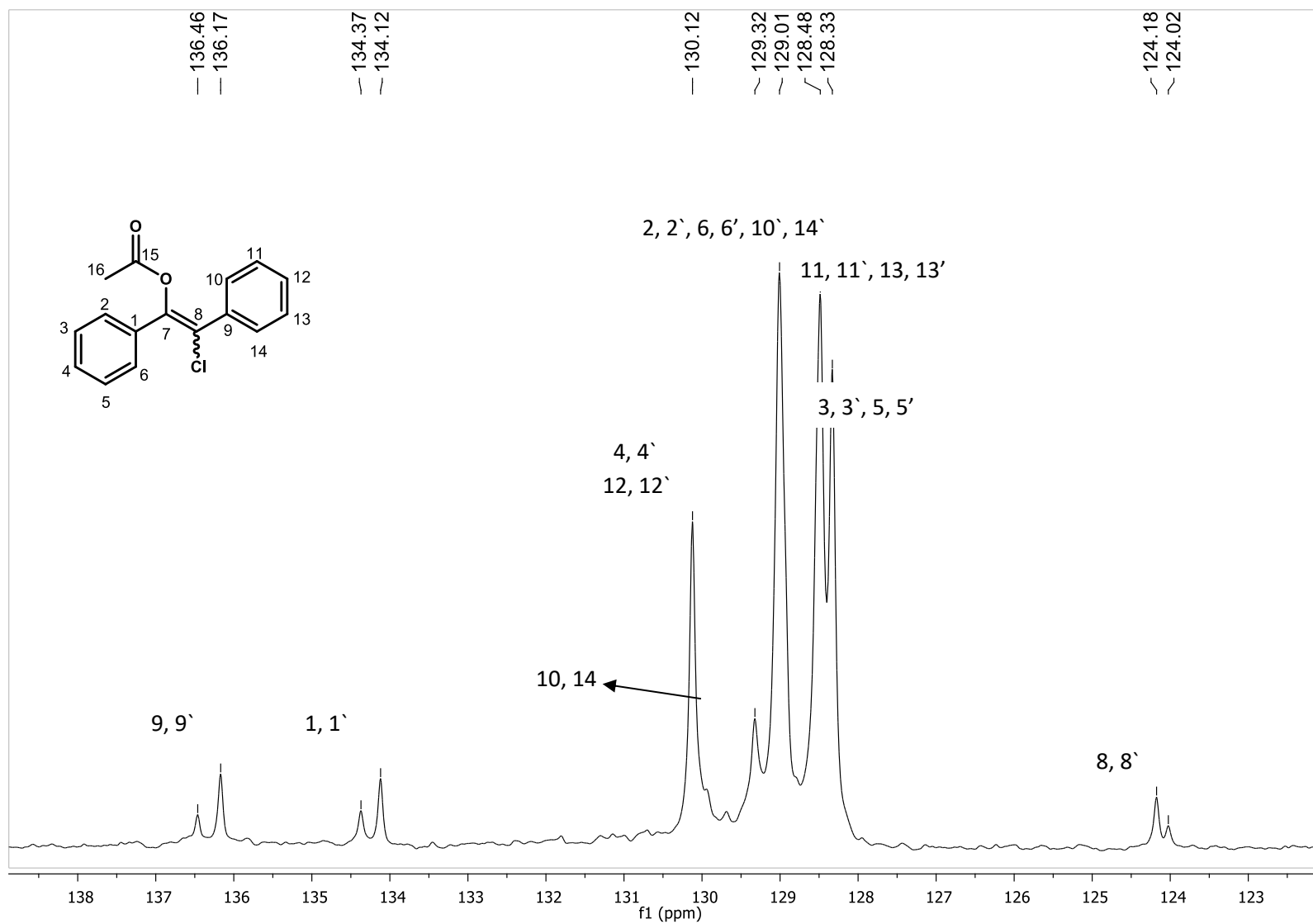


Spectrum S46. MS of 2-chloro-1,2-diphenylvinyl acetate.

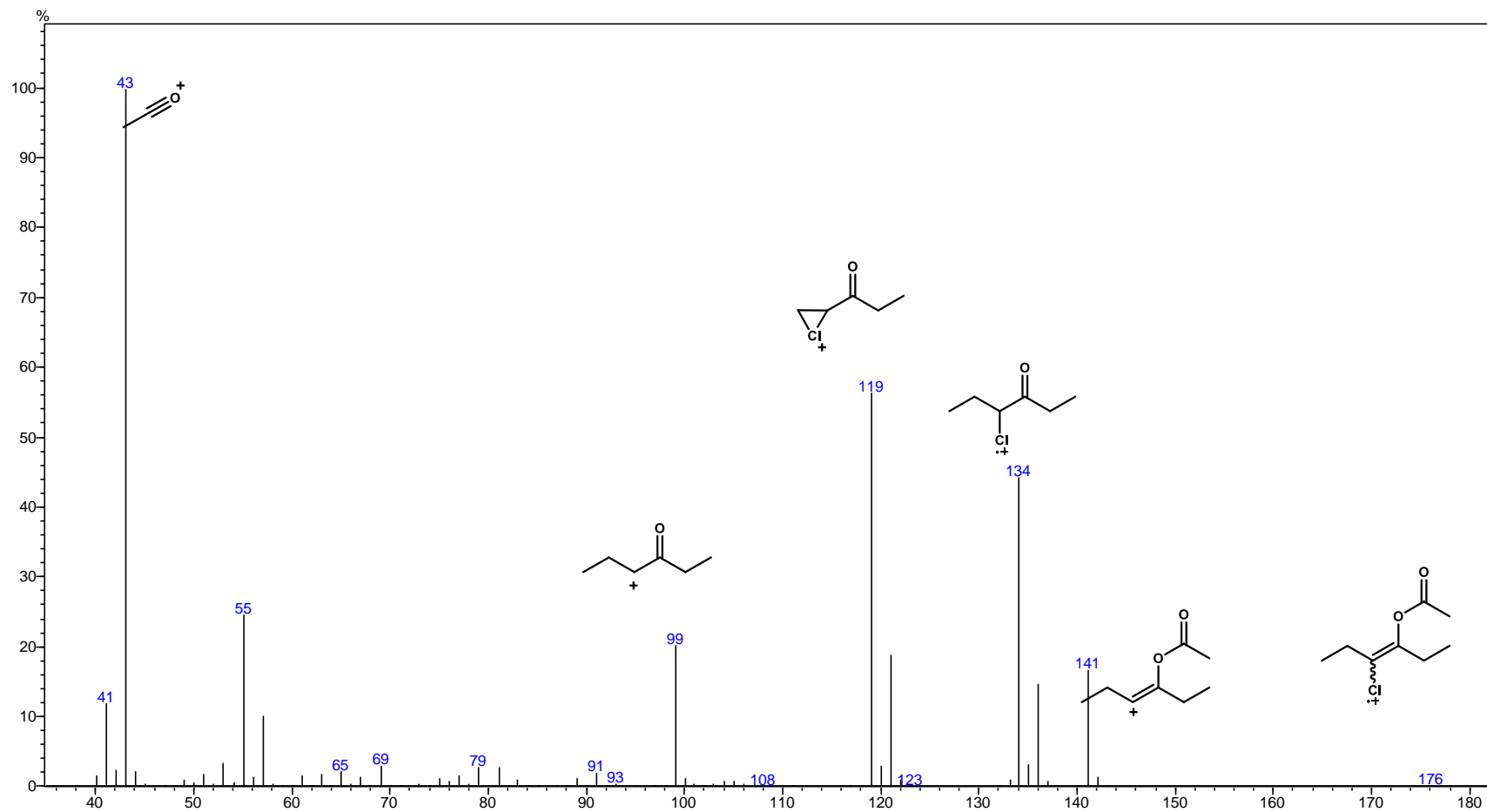
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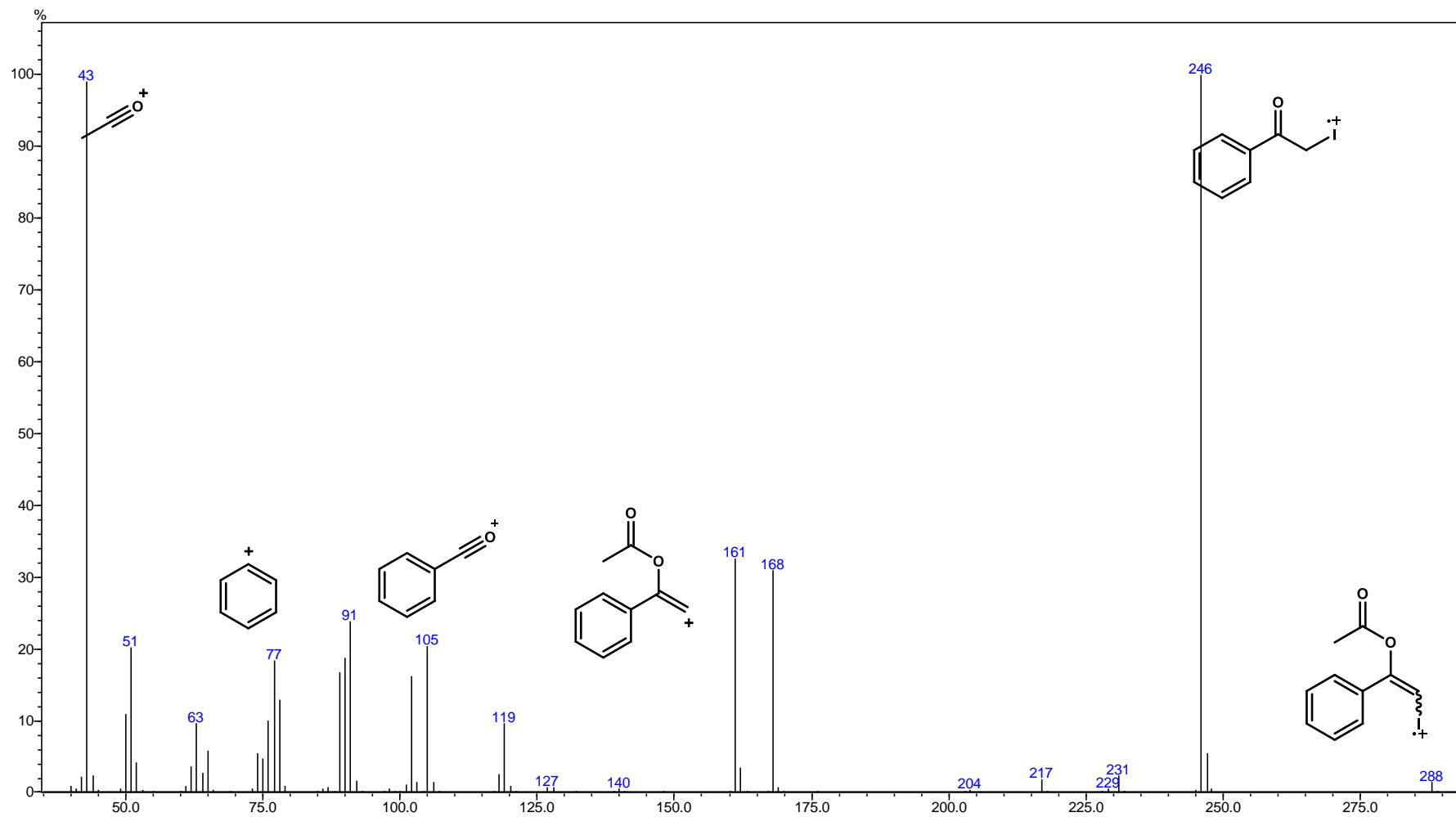
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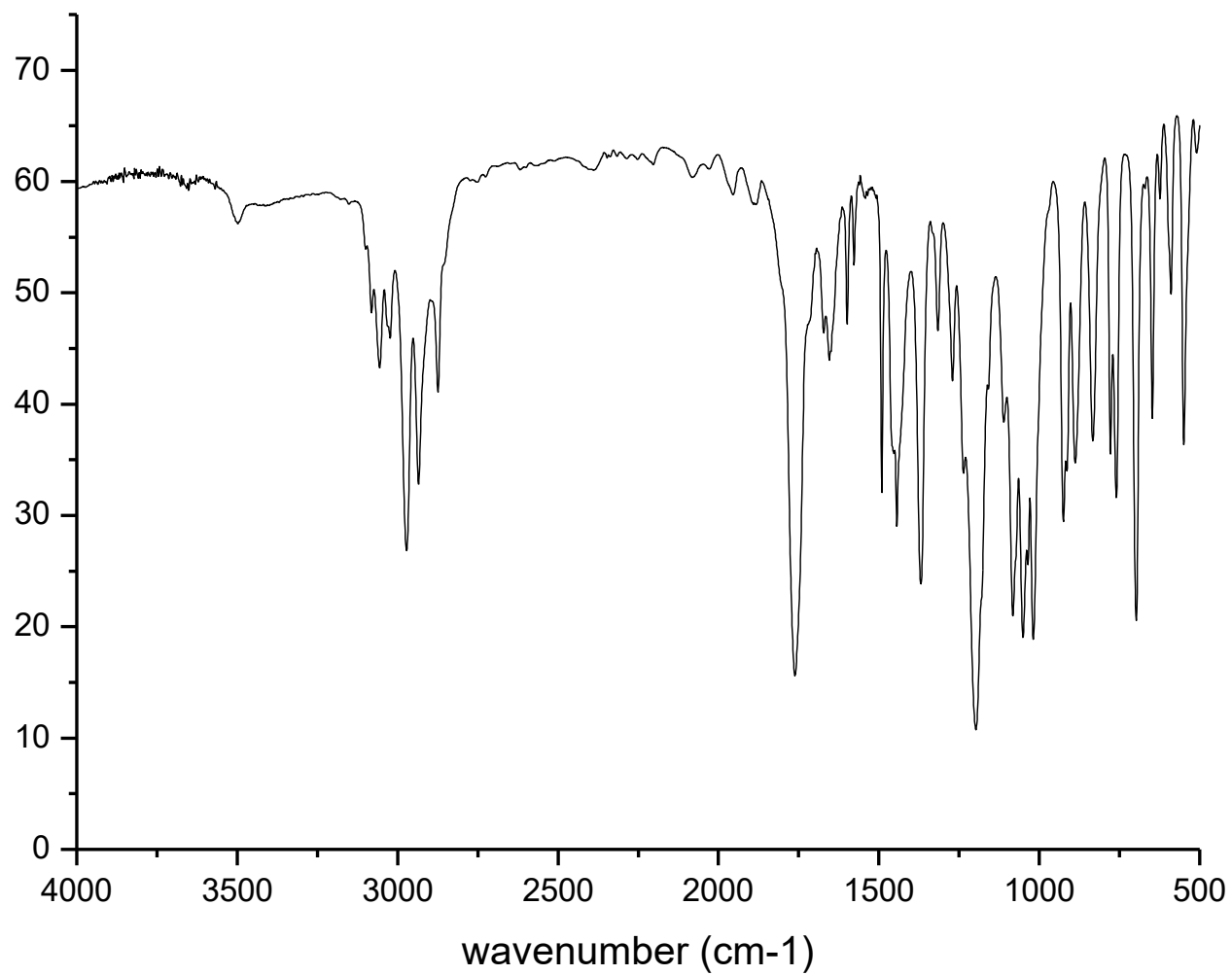
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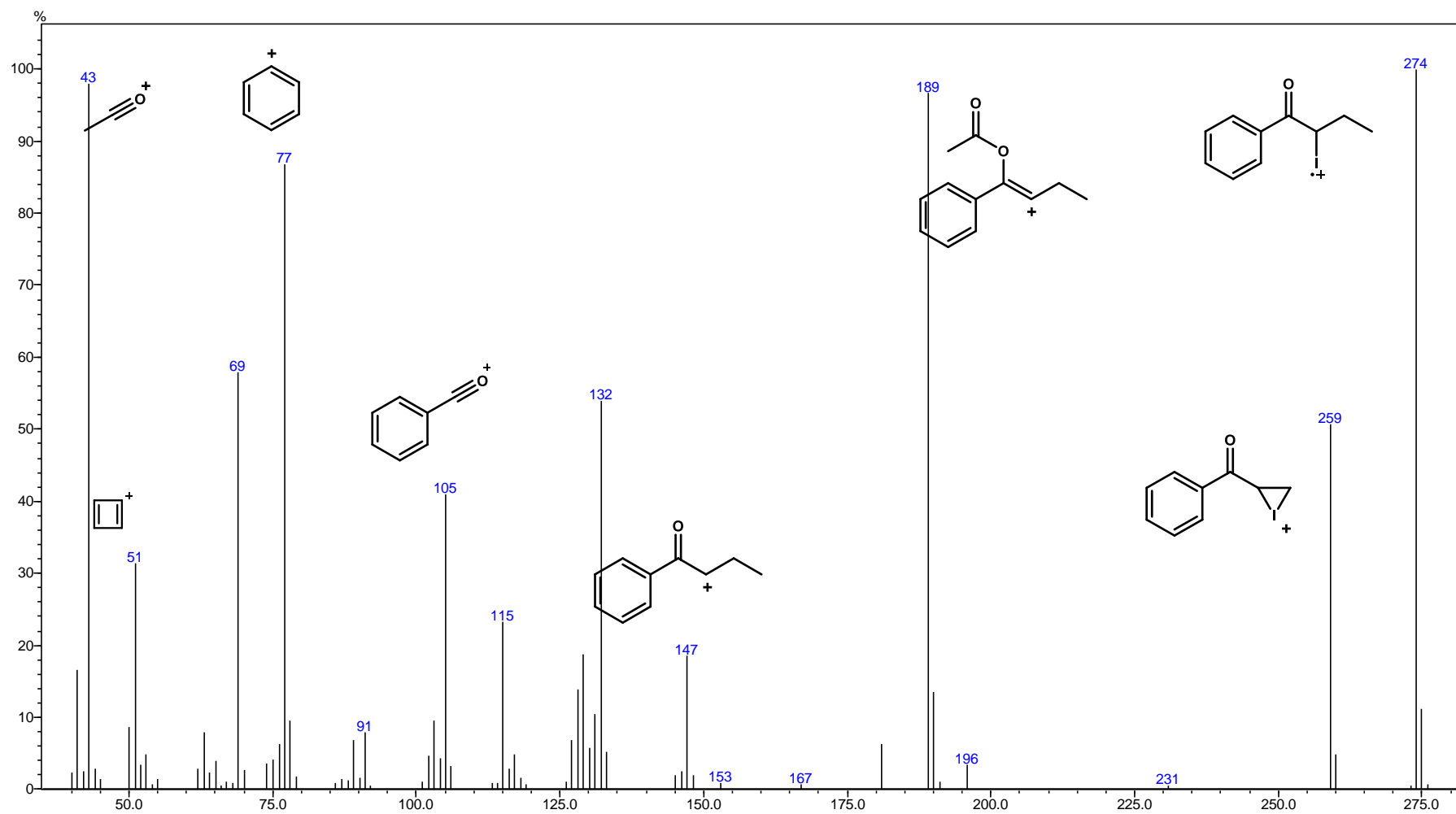
Spectrum S50. MS of 4-chlorohex-3-en-3-yl acetate.



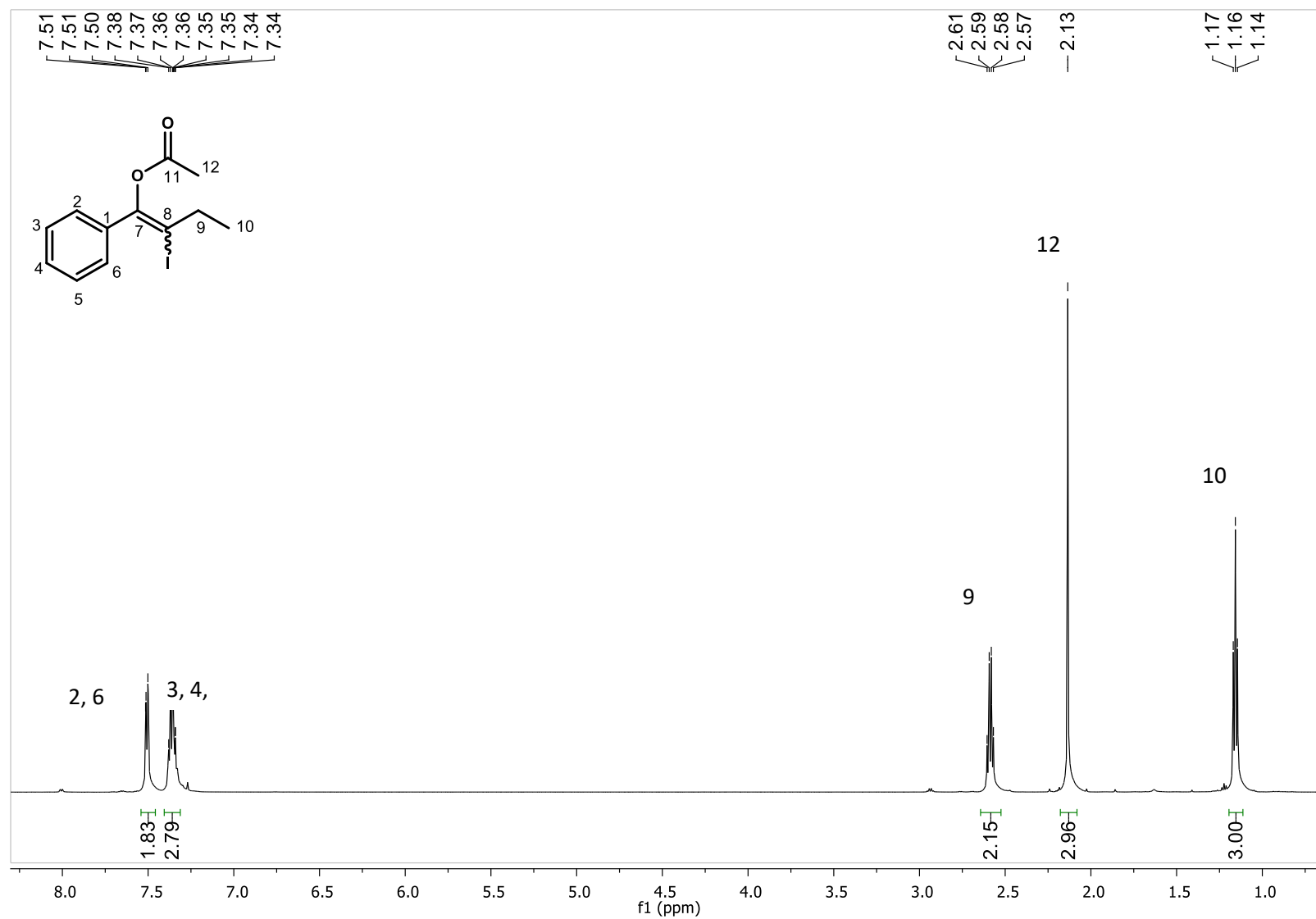
Spectrum S51. MS of 2-iodo-1-phenylvinyl acetate.



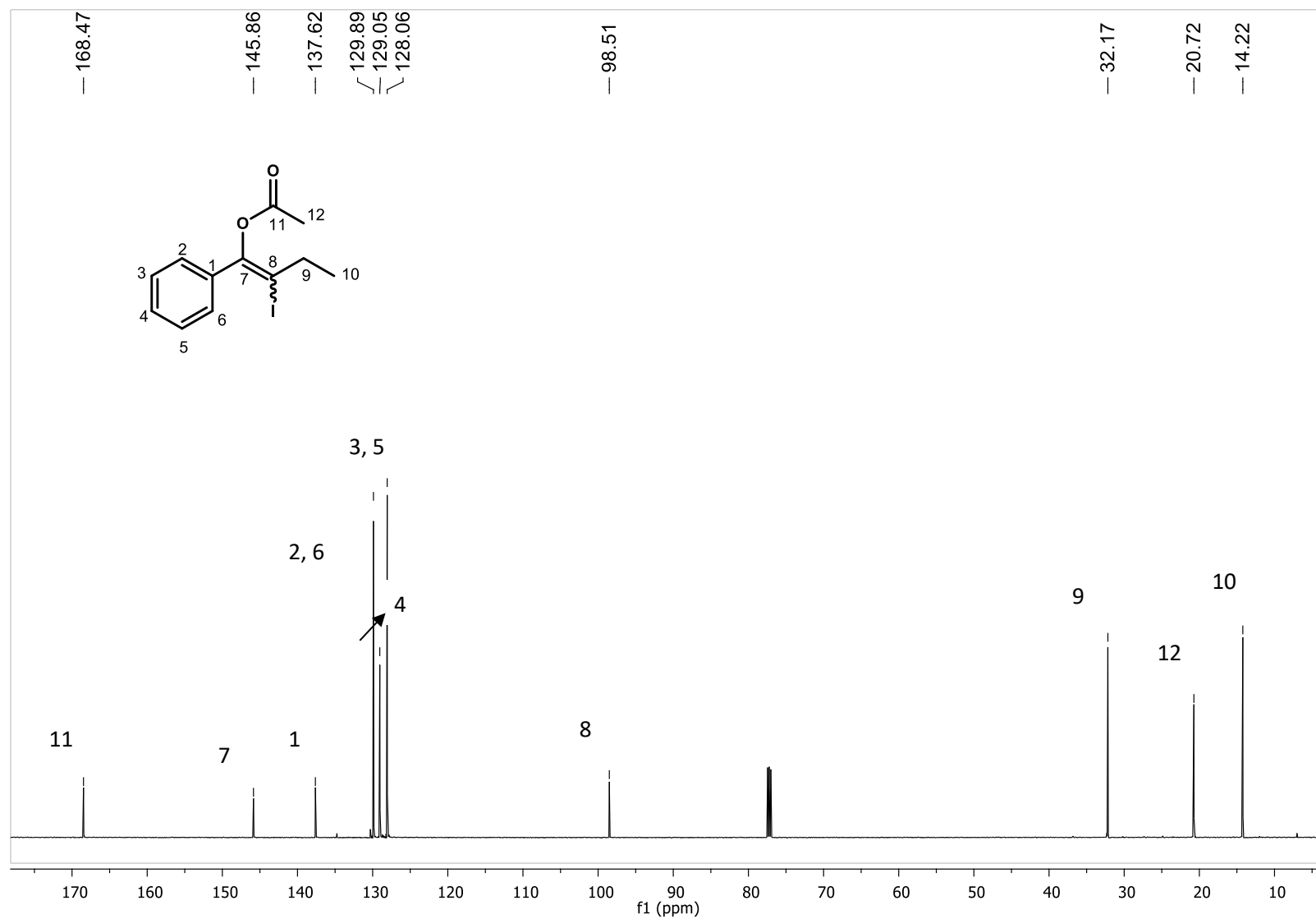
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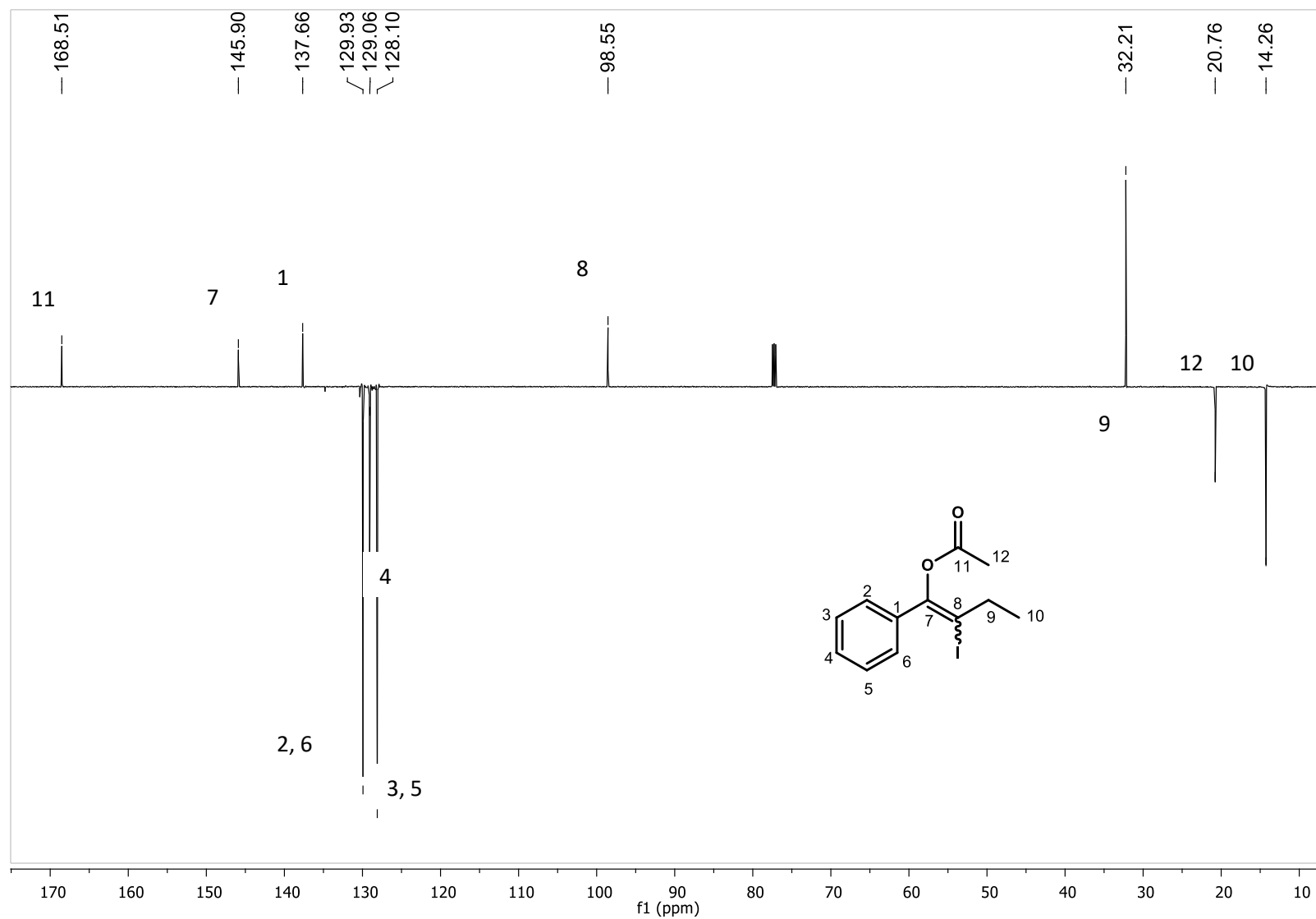
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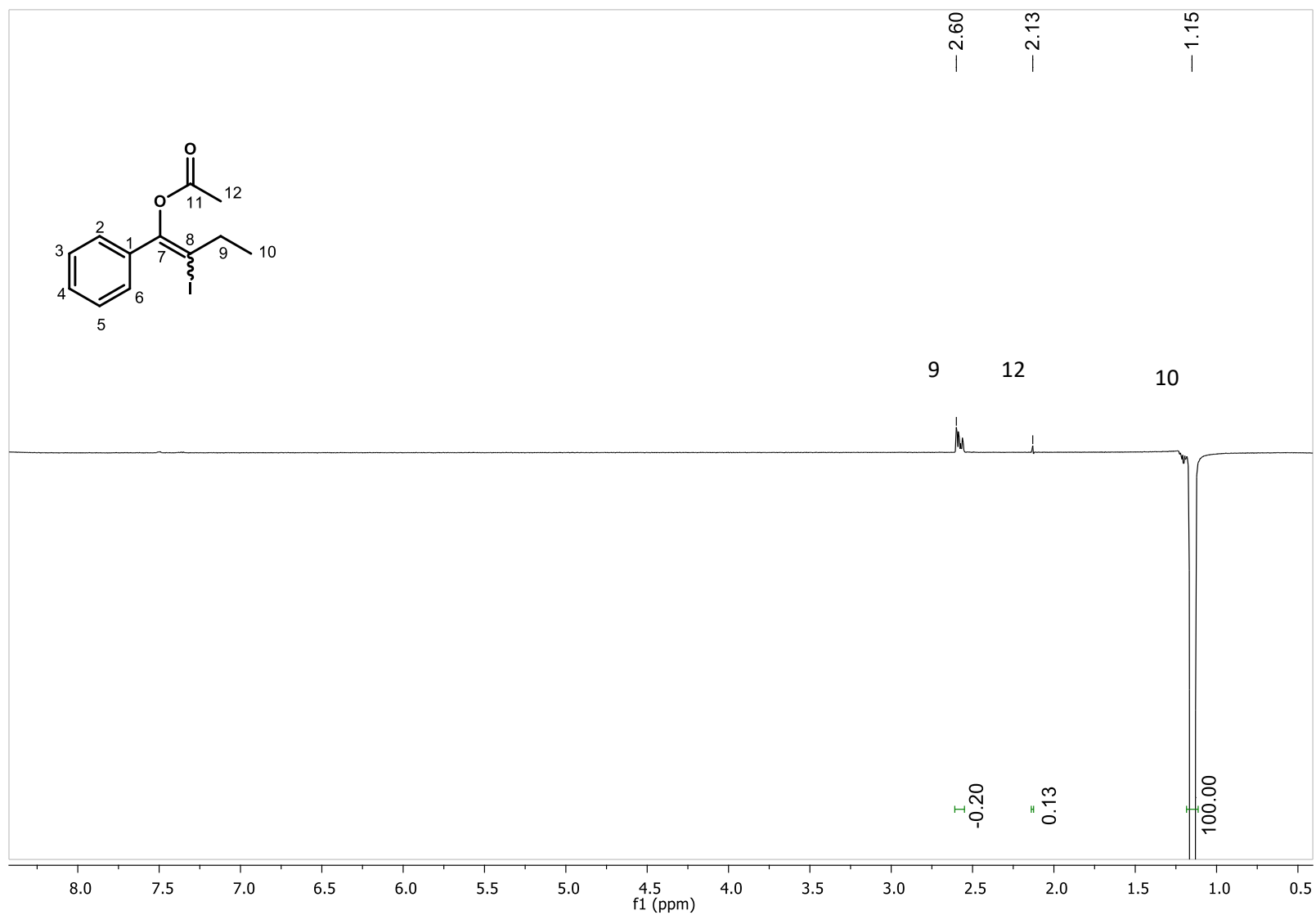
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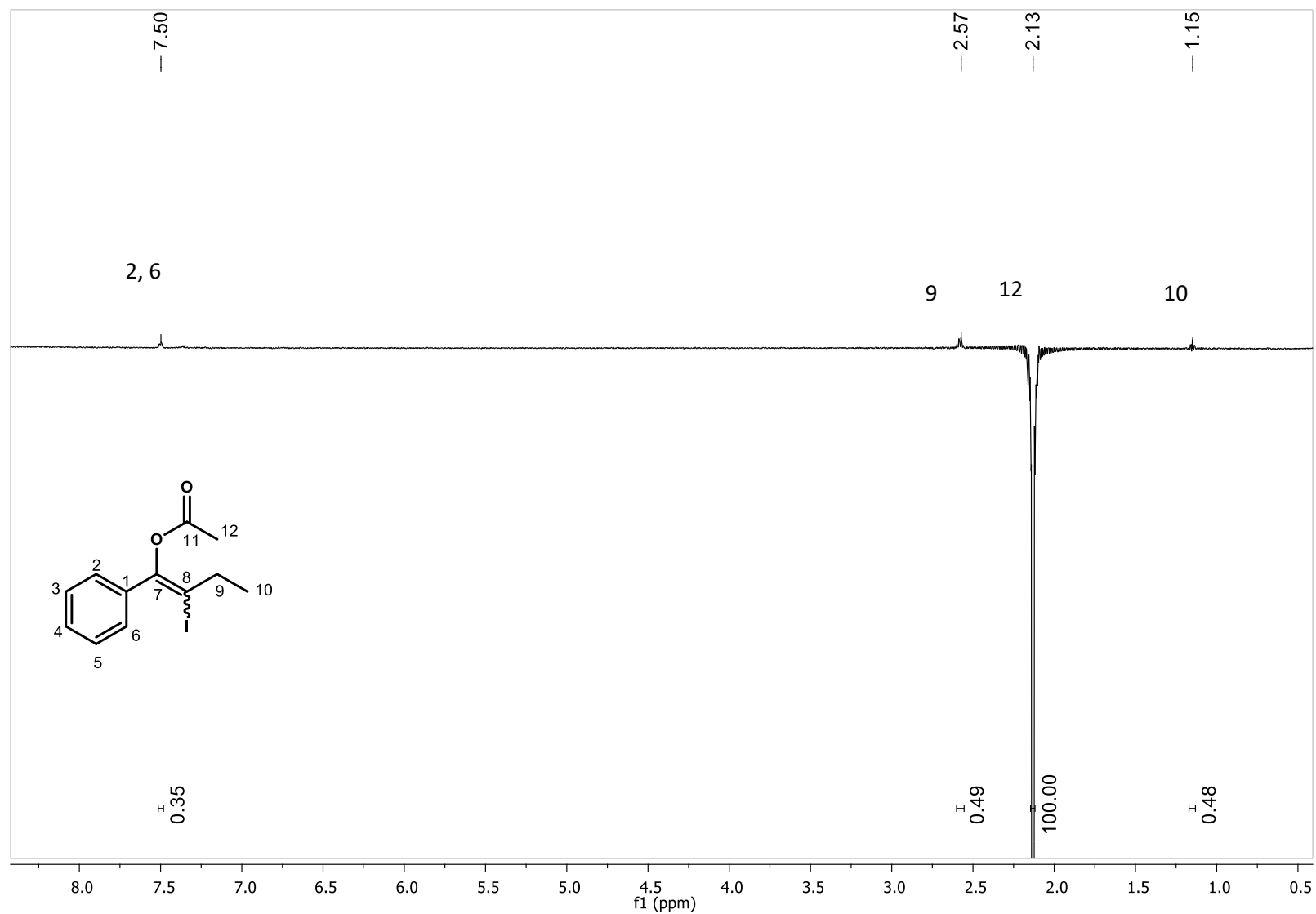
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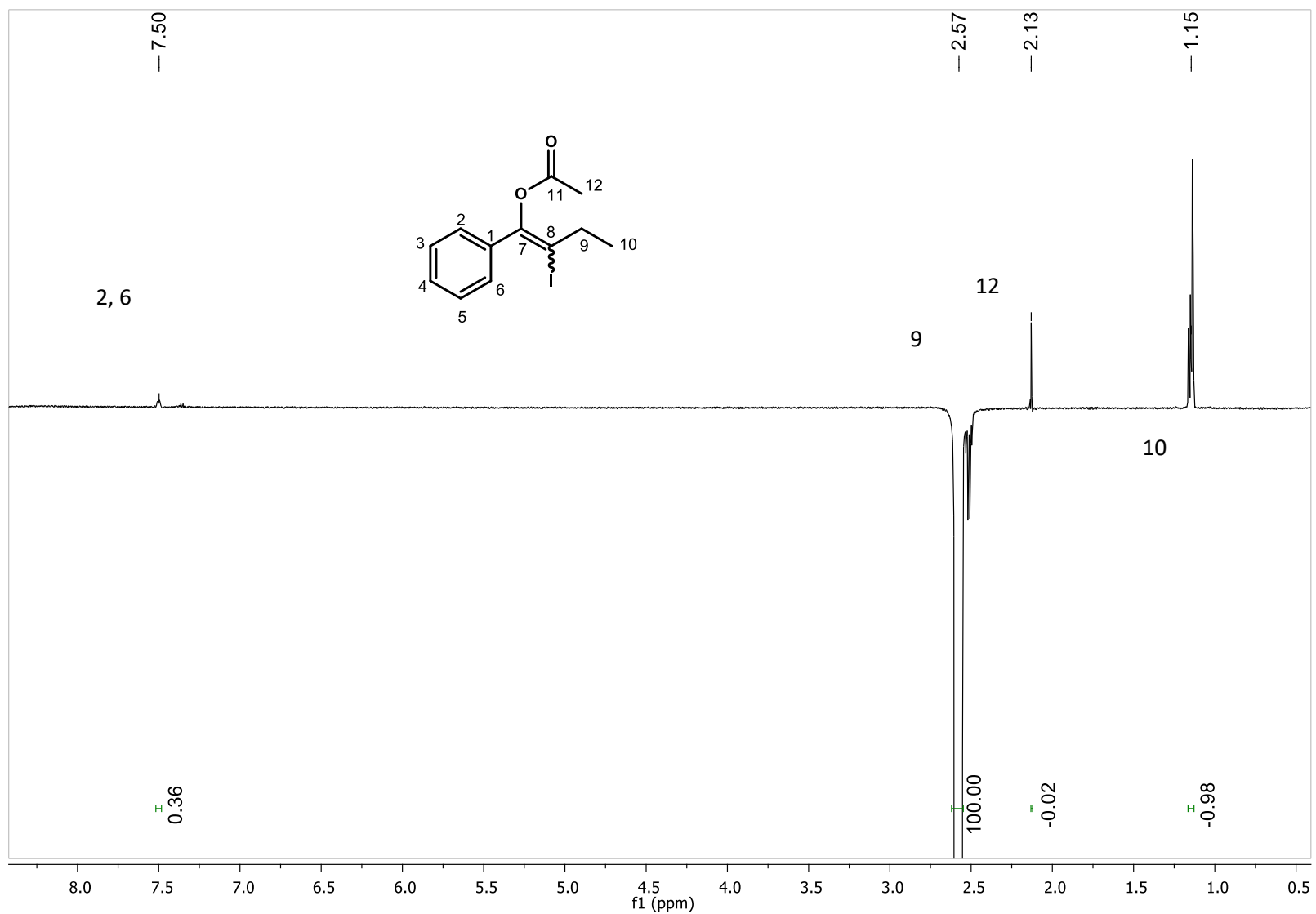
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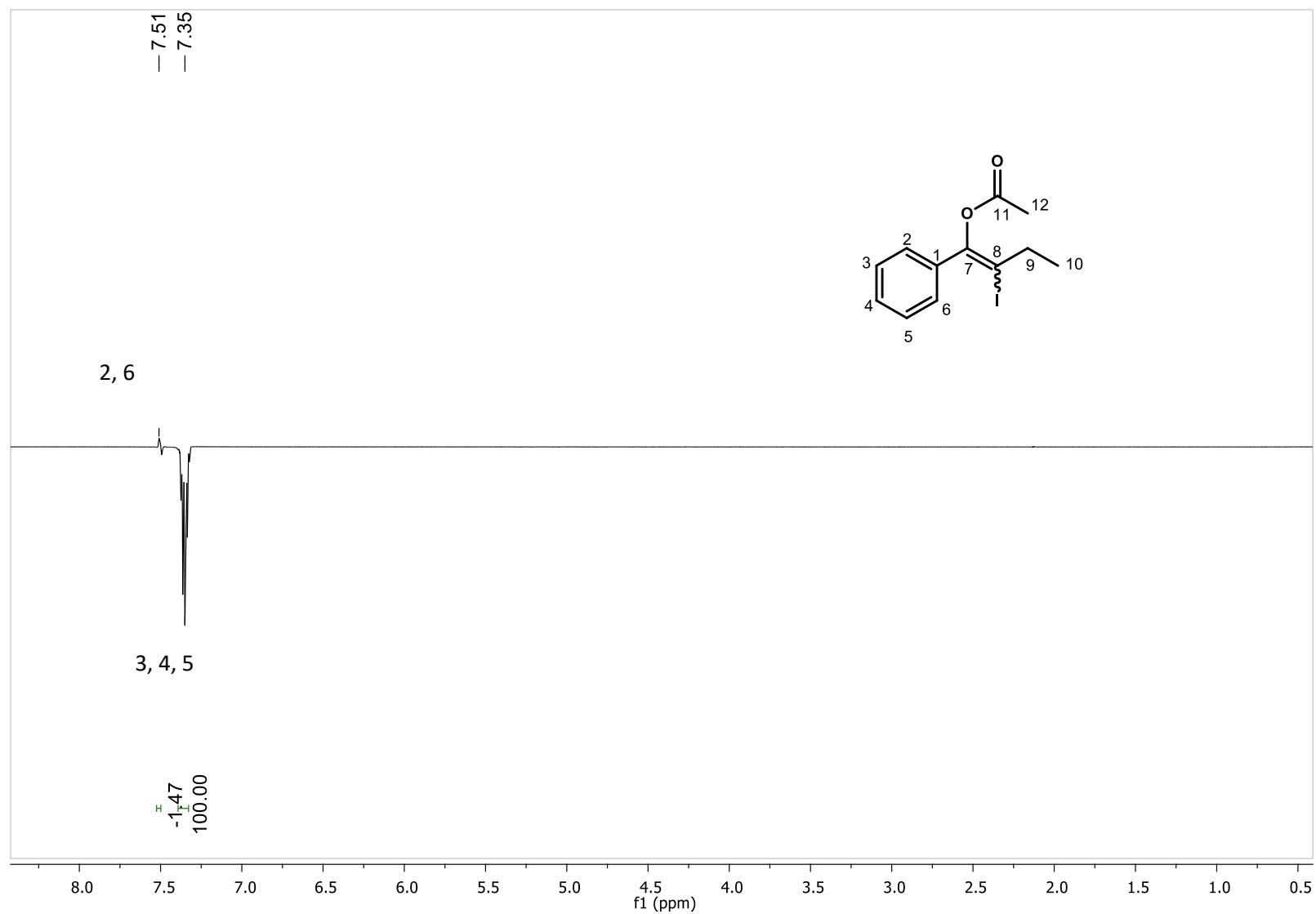
Spectrum S57. NOESY-1D of 2-iodo-1-phenylbut-1-en-1-yl acetate – irradiation at H10.



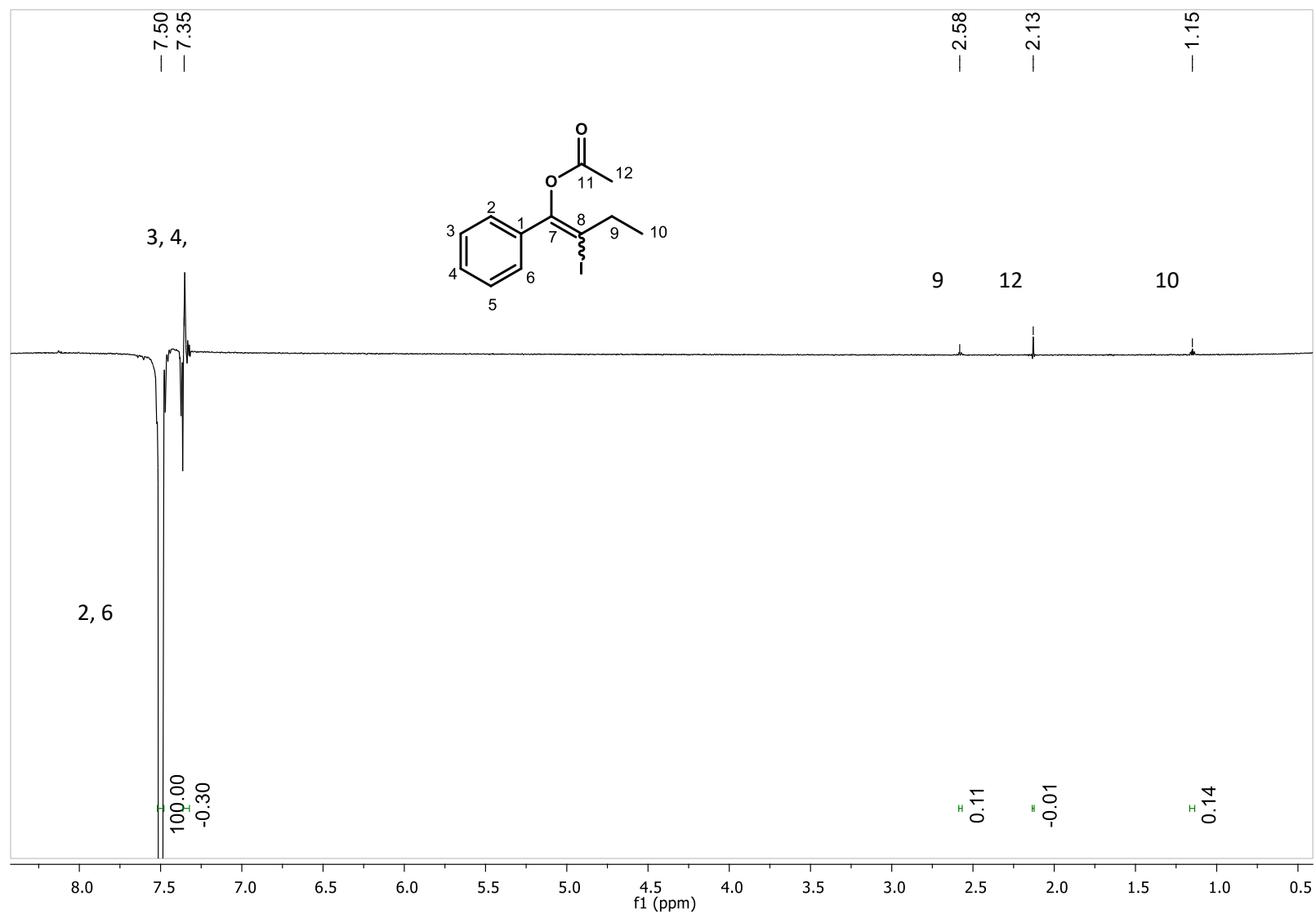
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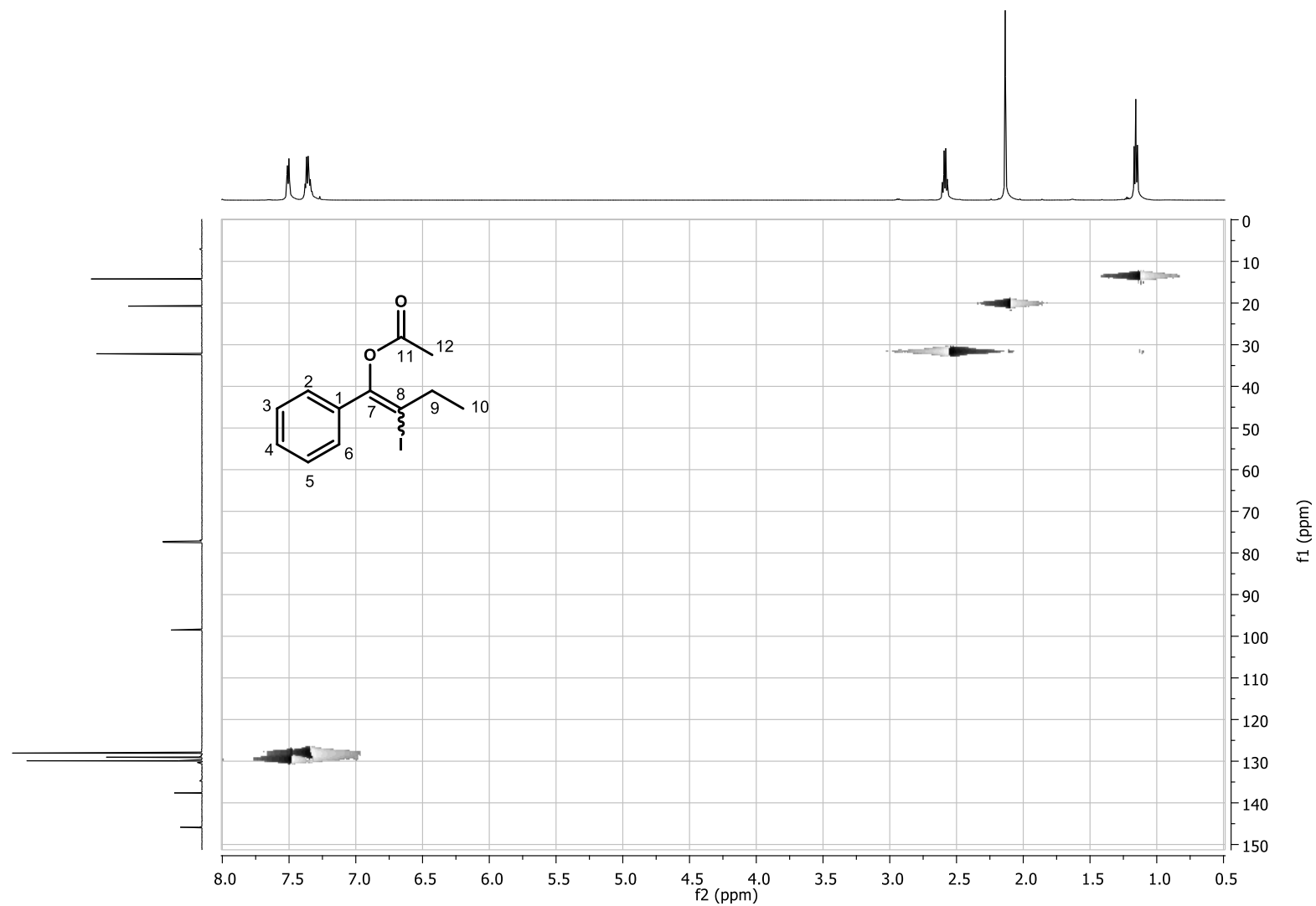
Spectrum S59. NOESY-1D of 2-iodo-1-phenylbut-1-en-1-yl acetate – irradiation H9.



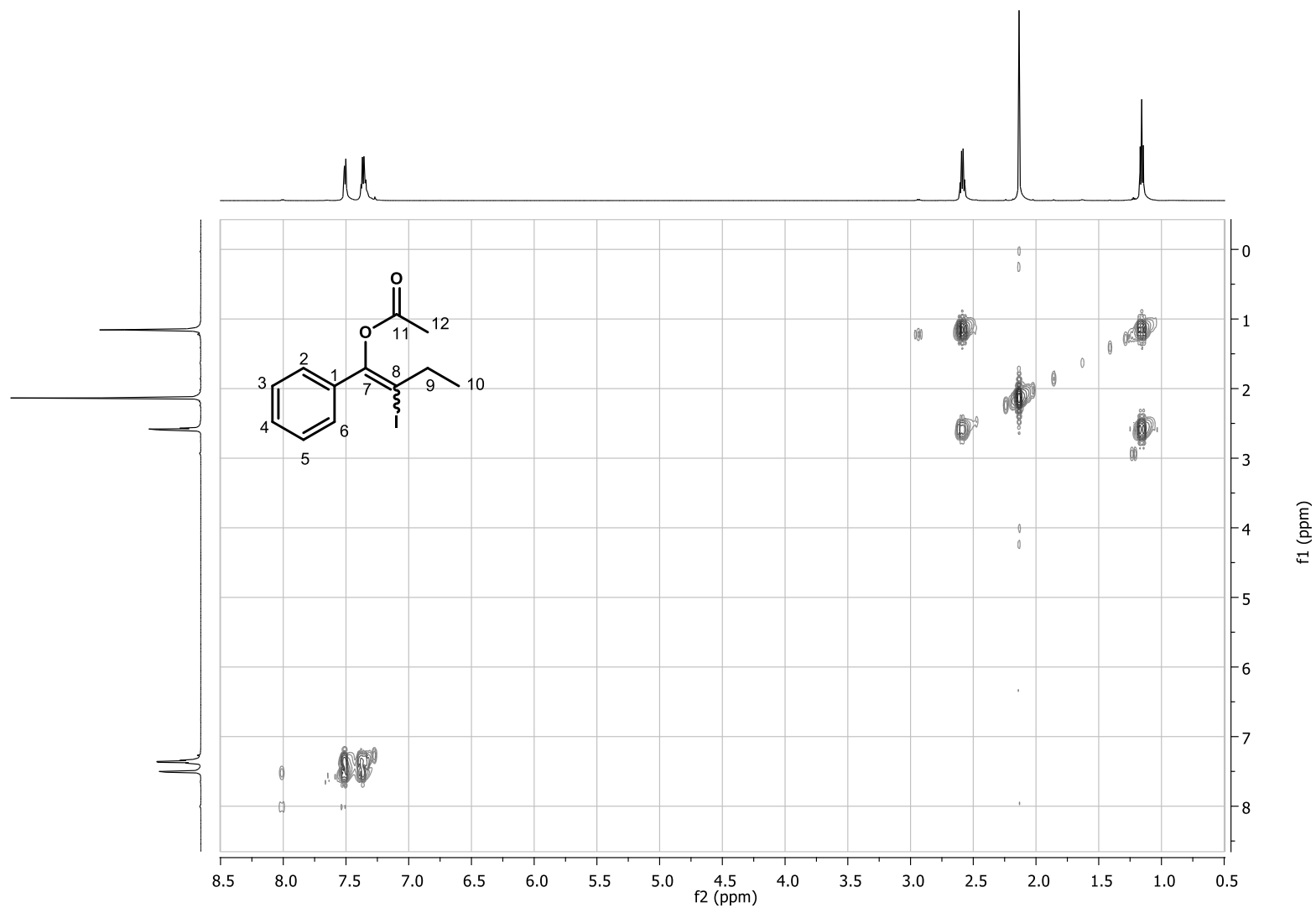
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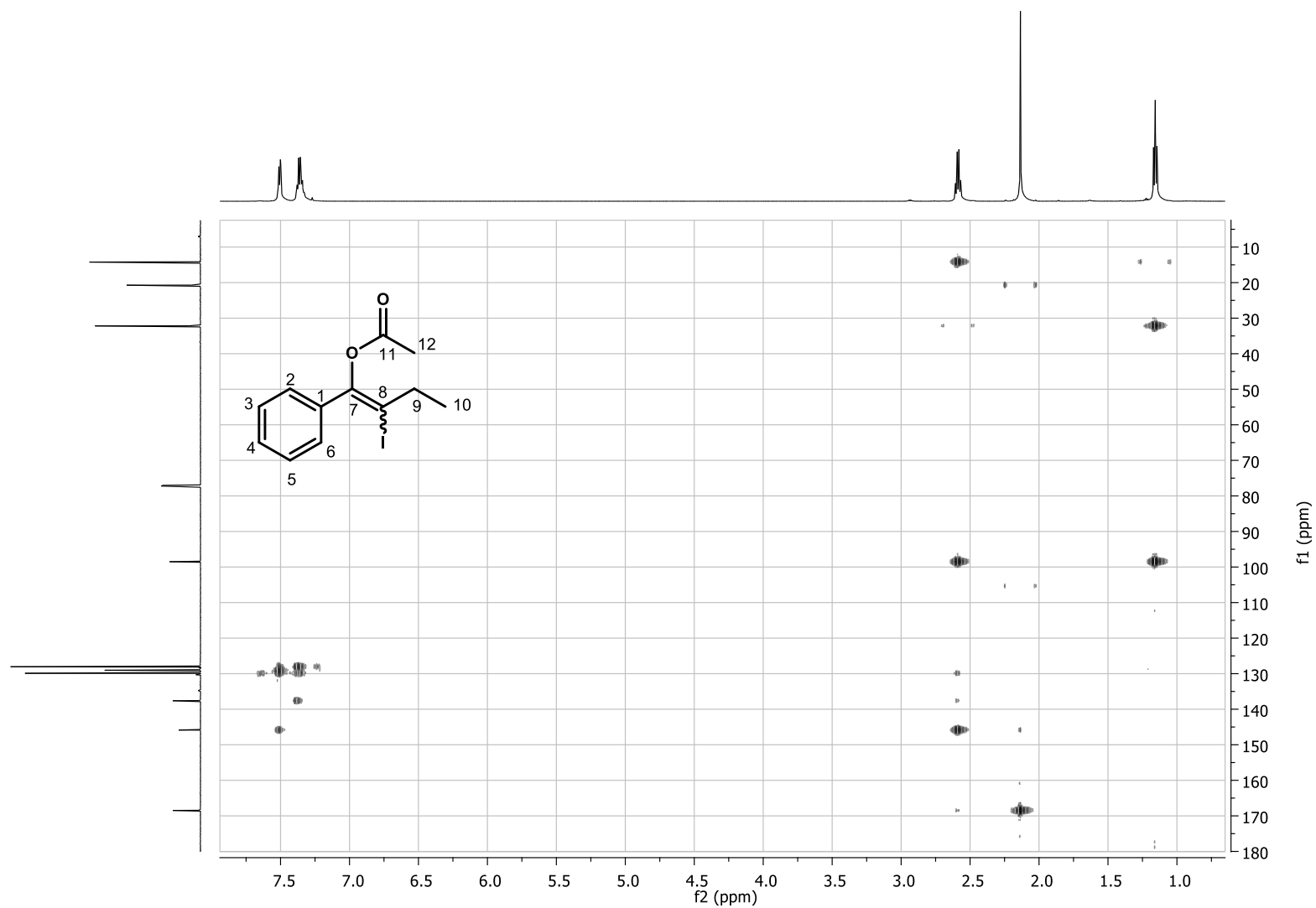
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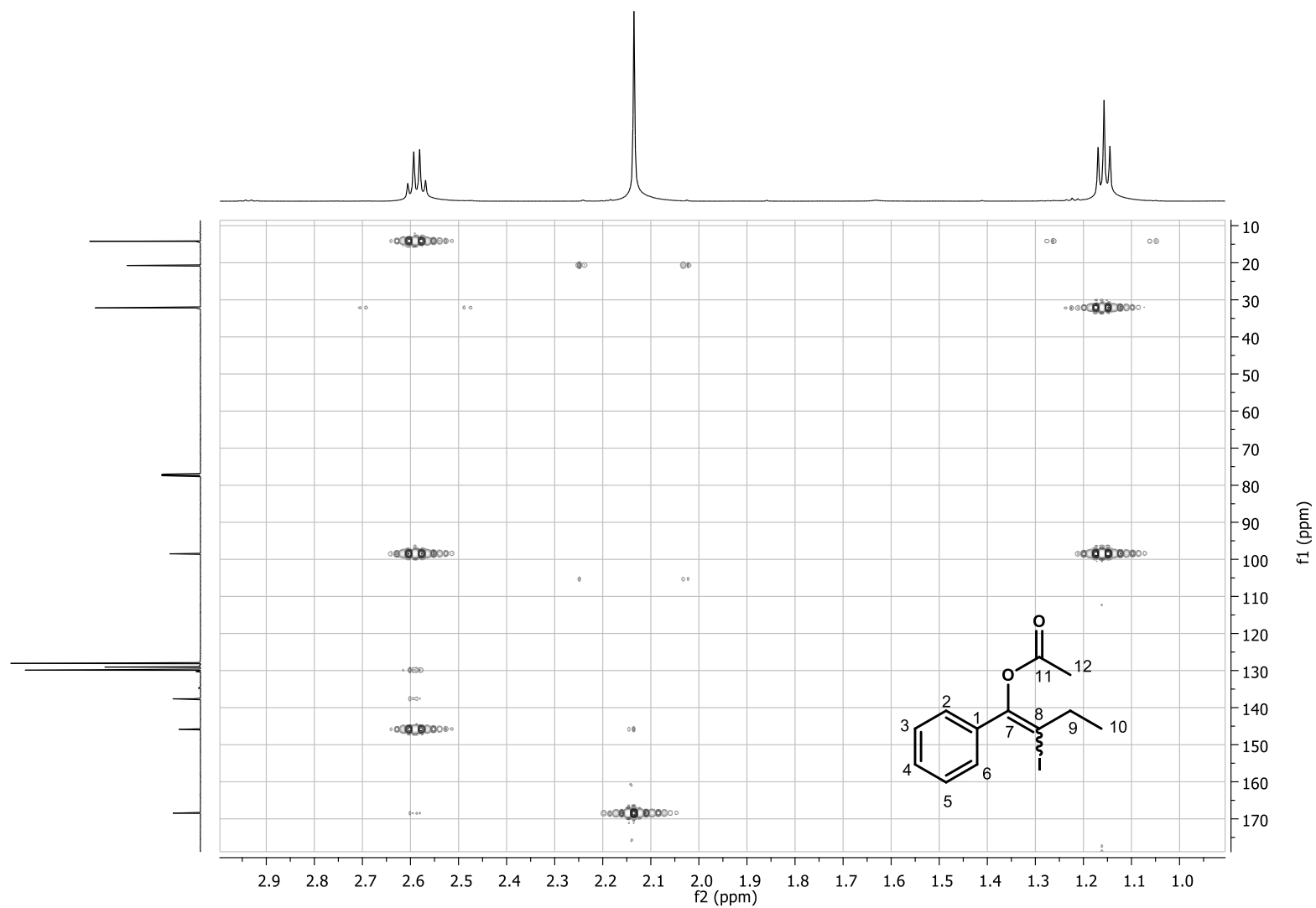
Spectrum S62. HSQC of 2-iodo-1-phenylbut-1-en-1-yl acetate.



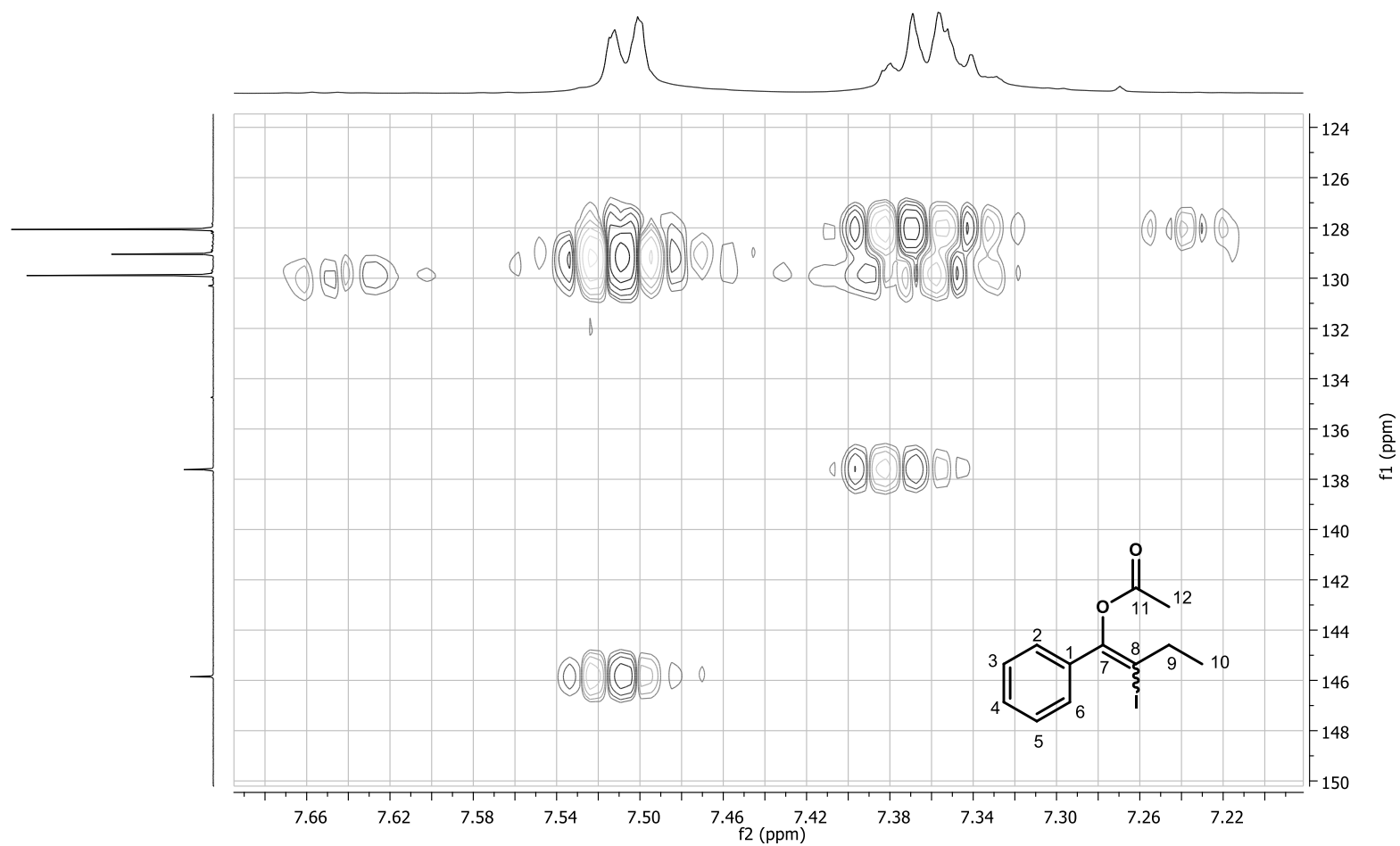
Spectrum S63. COSY of 2-iodo-1-phenylbut-1-en-1-yl acetate.



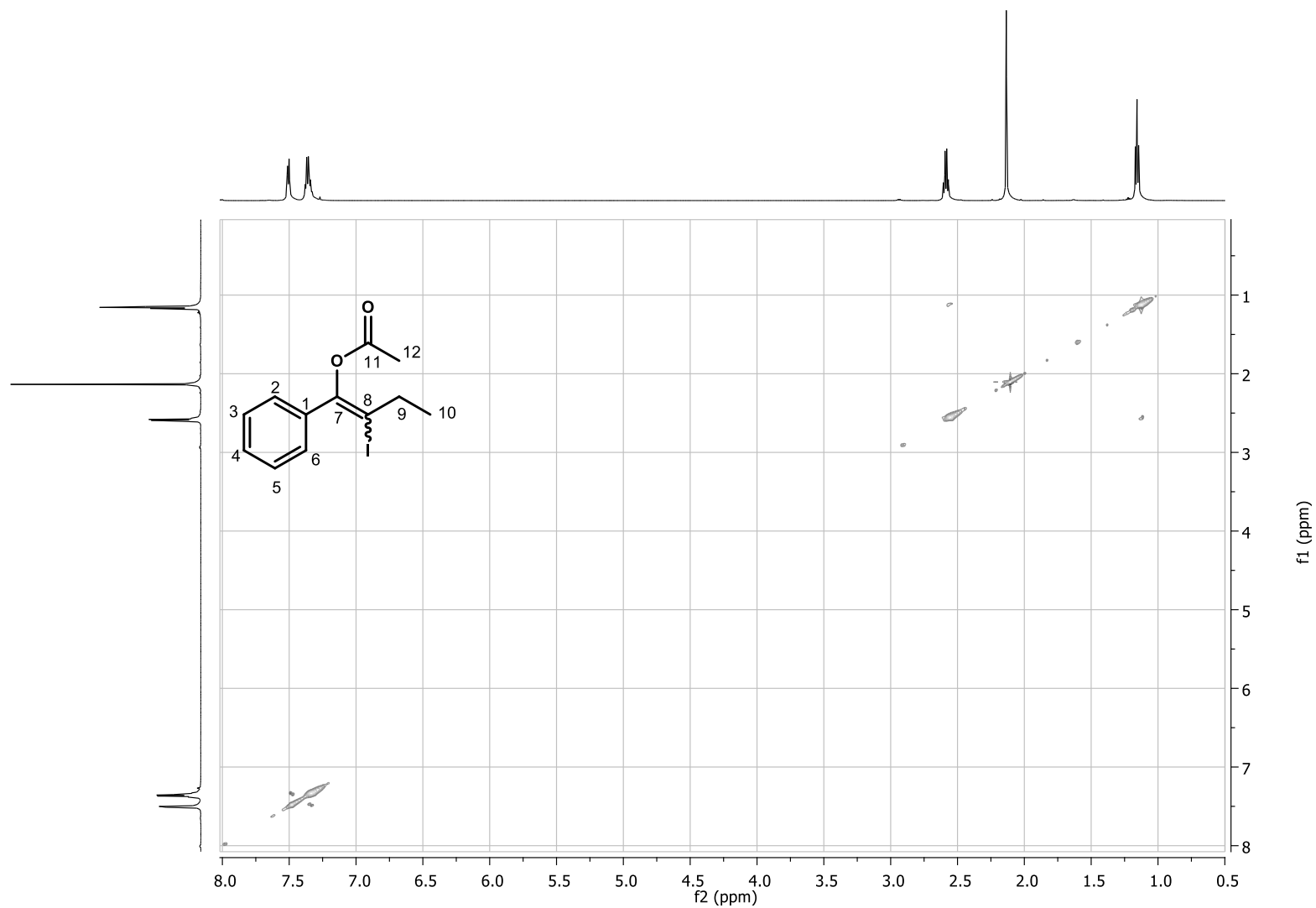
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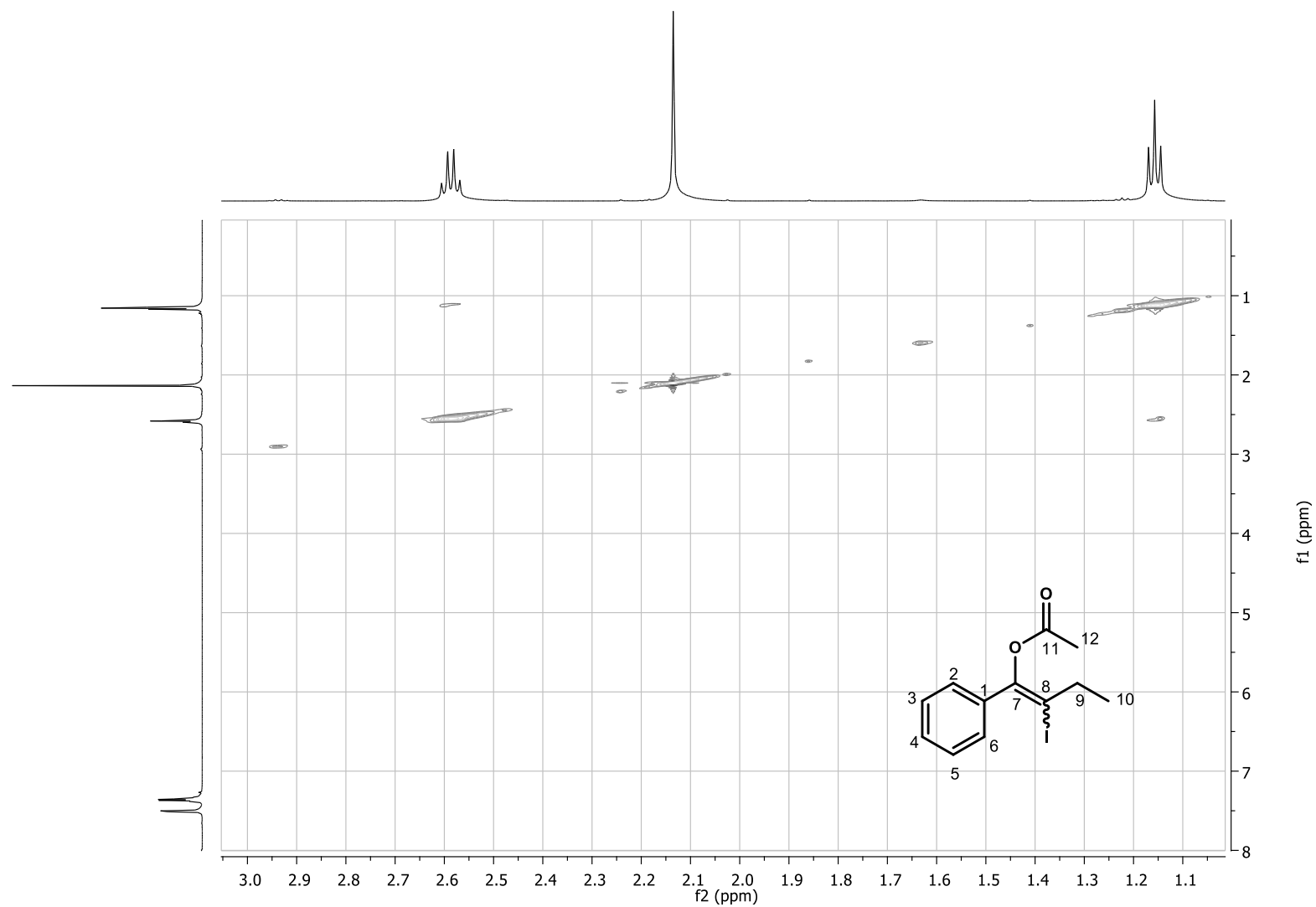
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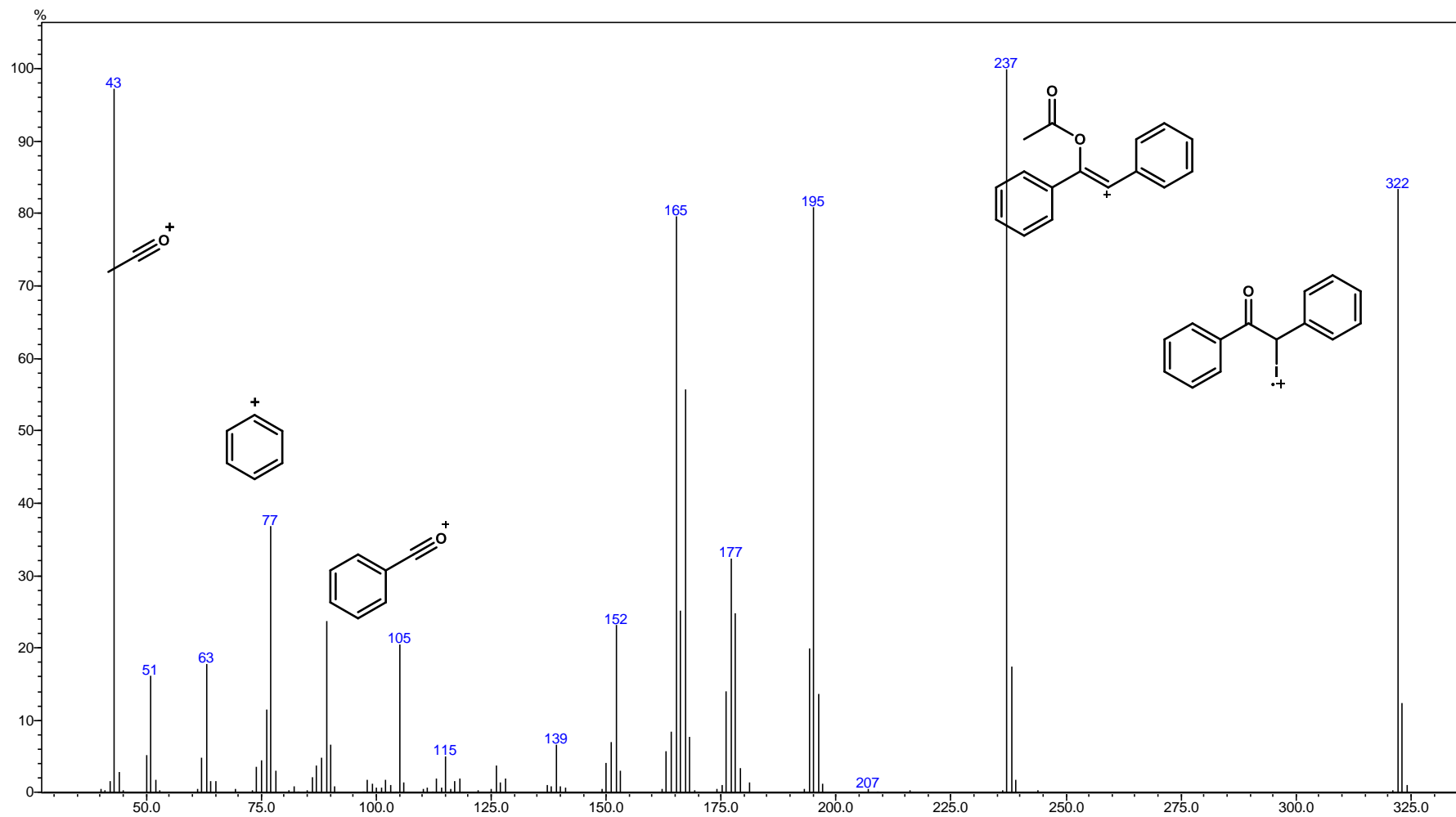
Spectrum S66. Expansion of HMBC of 2-iodo-1-phenylbut-1-en-1-yl acetate.



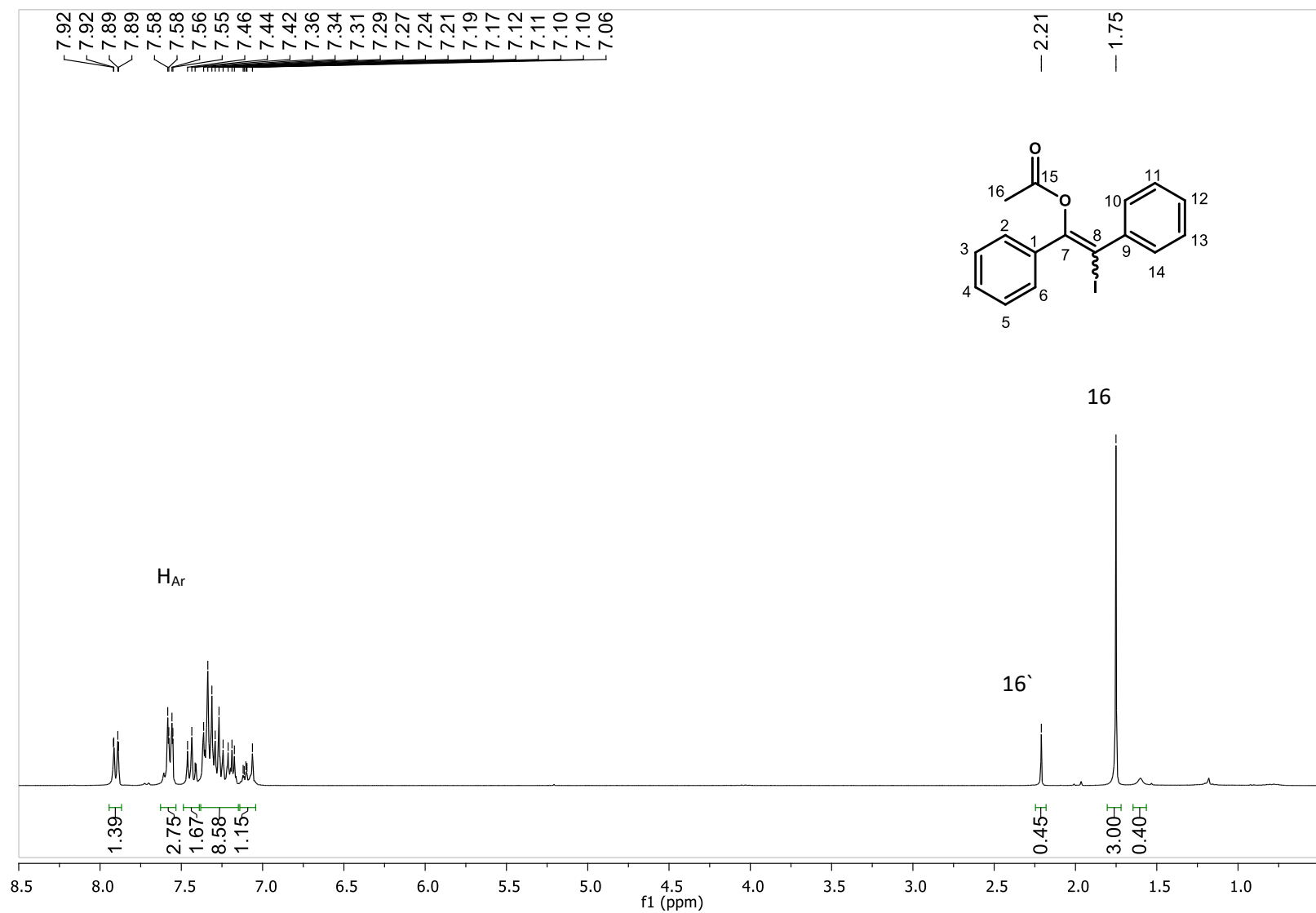
Spectrum S67. NOESY-2D of 2-iodo-1-phenylbut-1-en-1-yl acetate.

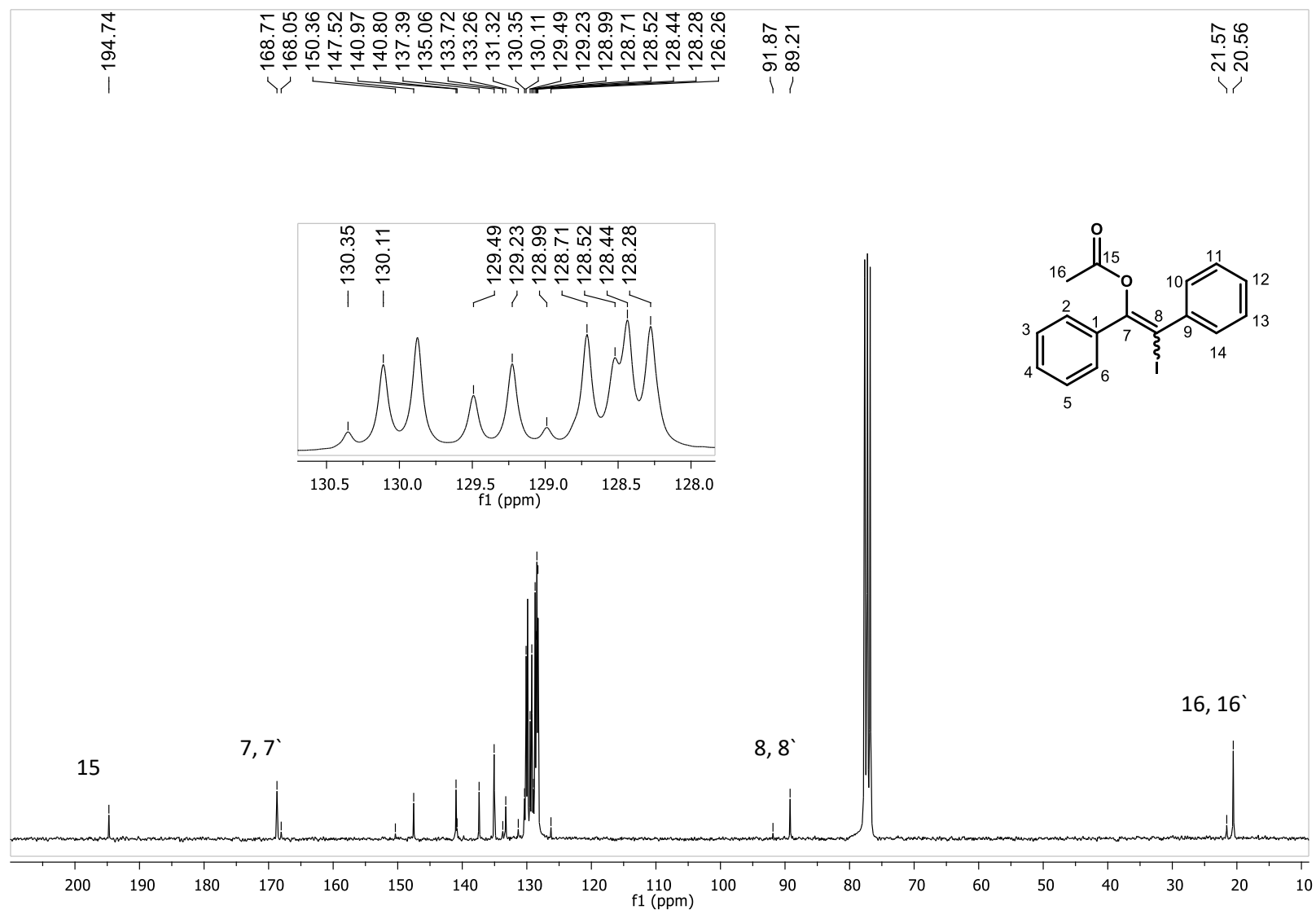


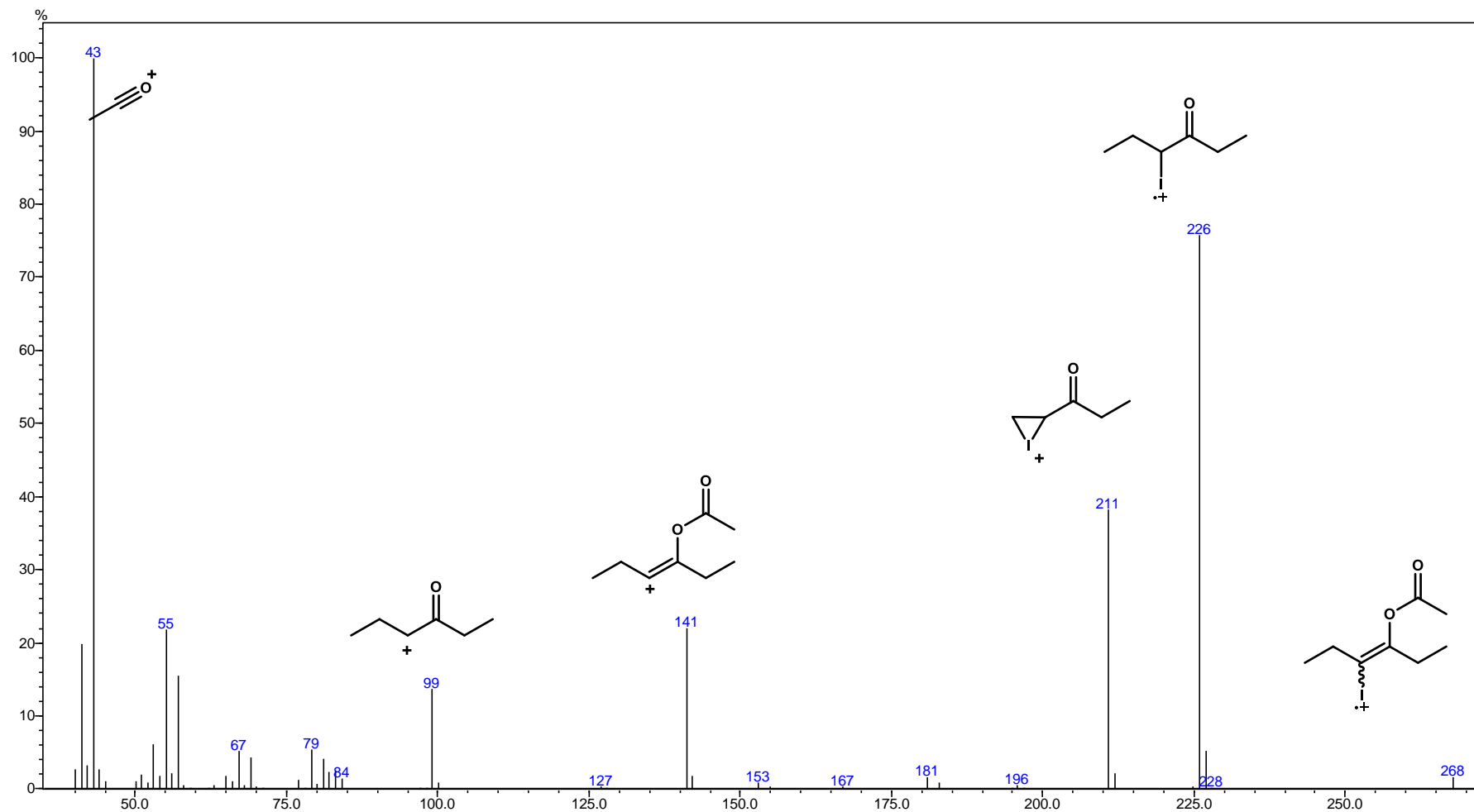
Spectrum S68. Expansion of NOESY-2D of 2-iodo-1-phenylbut-1-en-1-yl acetate.



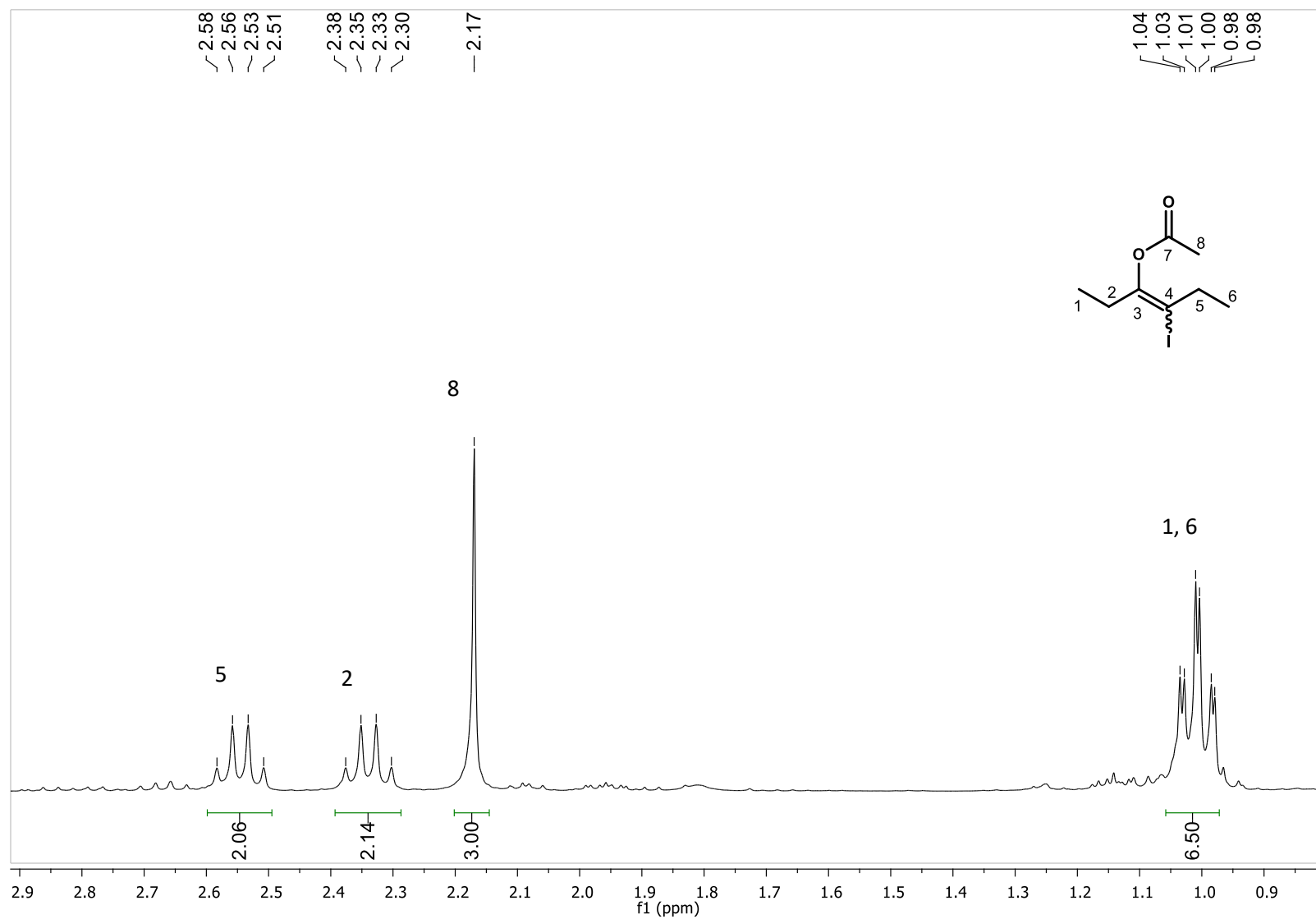
Spectrum S69. MS of 2-iodo-1,2-diphenylvinyl acetate.

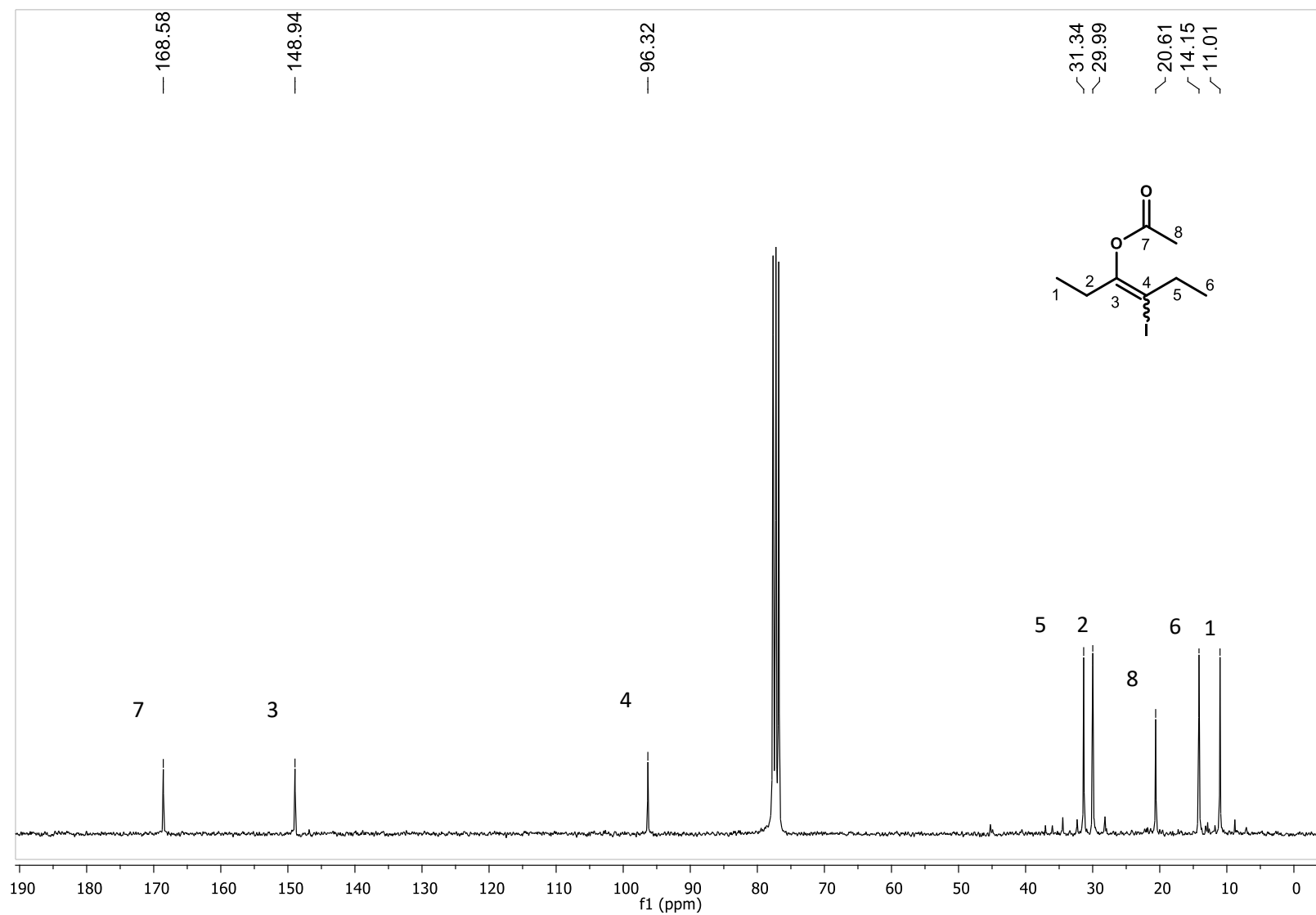
Spectrum S70. ^1H NMR (200MHz) of 2-iodo-1,2-diphenylvinyl acetate.

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.