

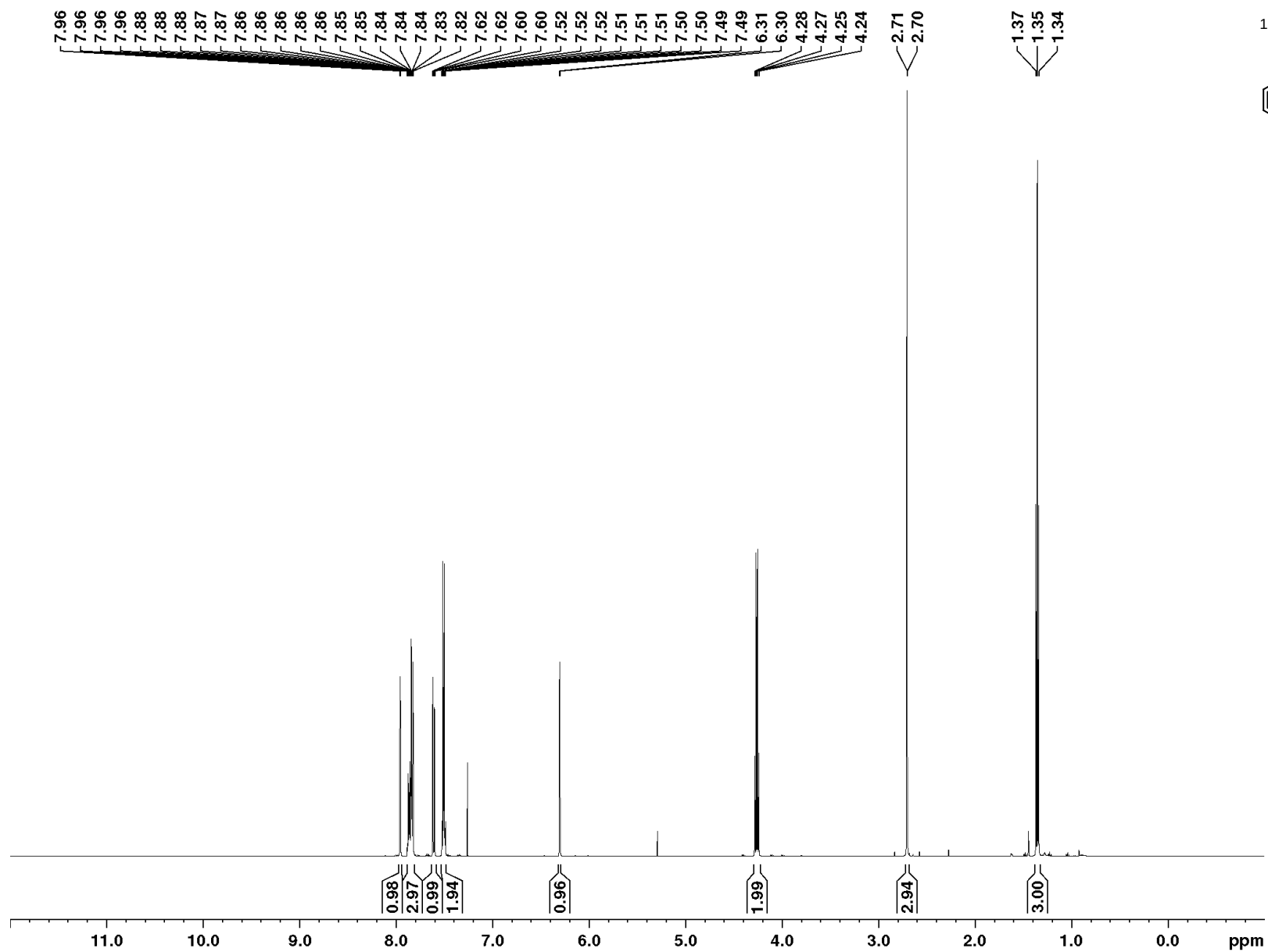
Supporting Information for

Copper(I)-Catalysed Asymmetric Allylic Reduction with Hydrosilanes

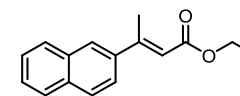
T. N. Thanh Nguyen, Niklas O. Thiel, and Johannes F. Teichert*

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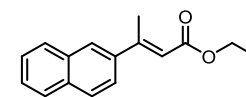


¹H-NMR

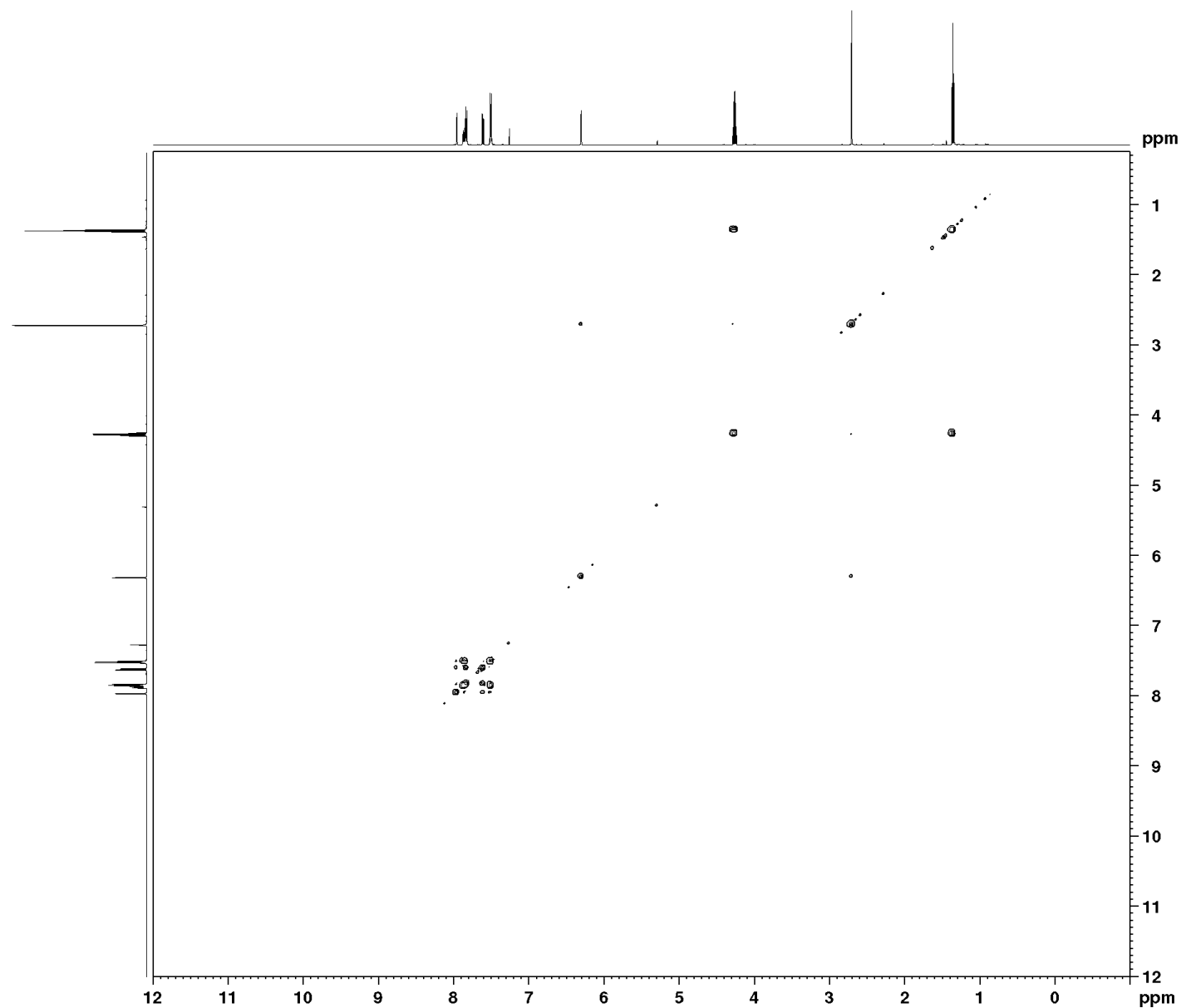


S2'' (E)

^1H - ^1H -COSY

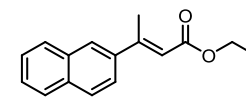


S2'' (*E*)

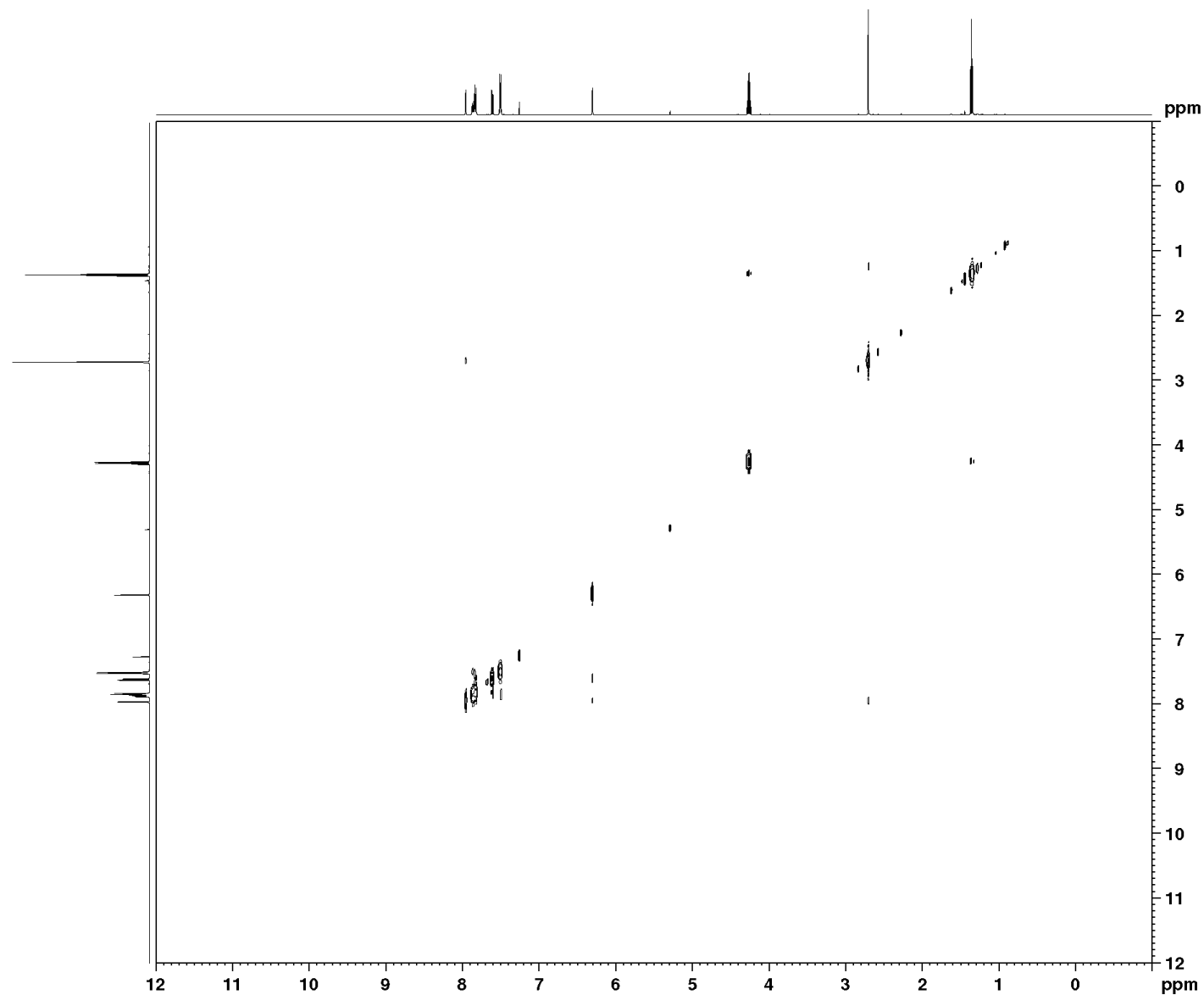


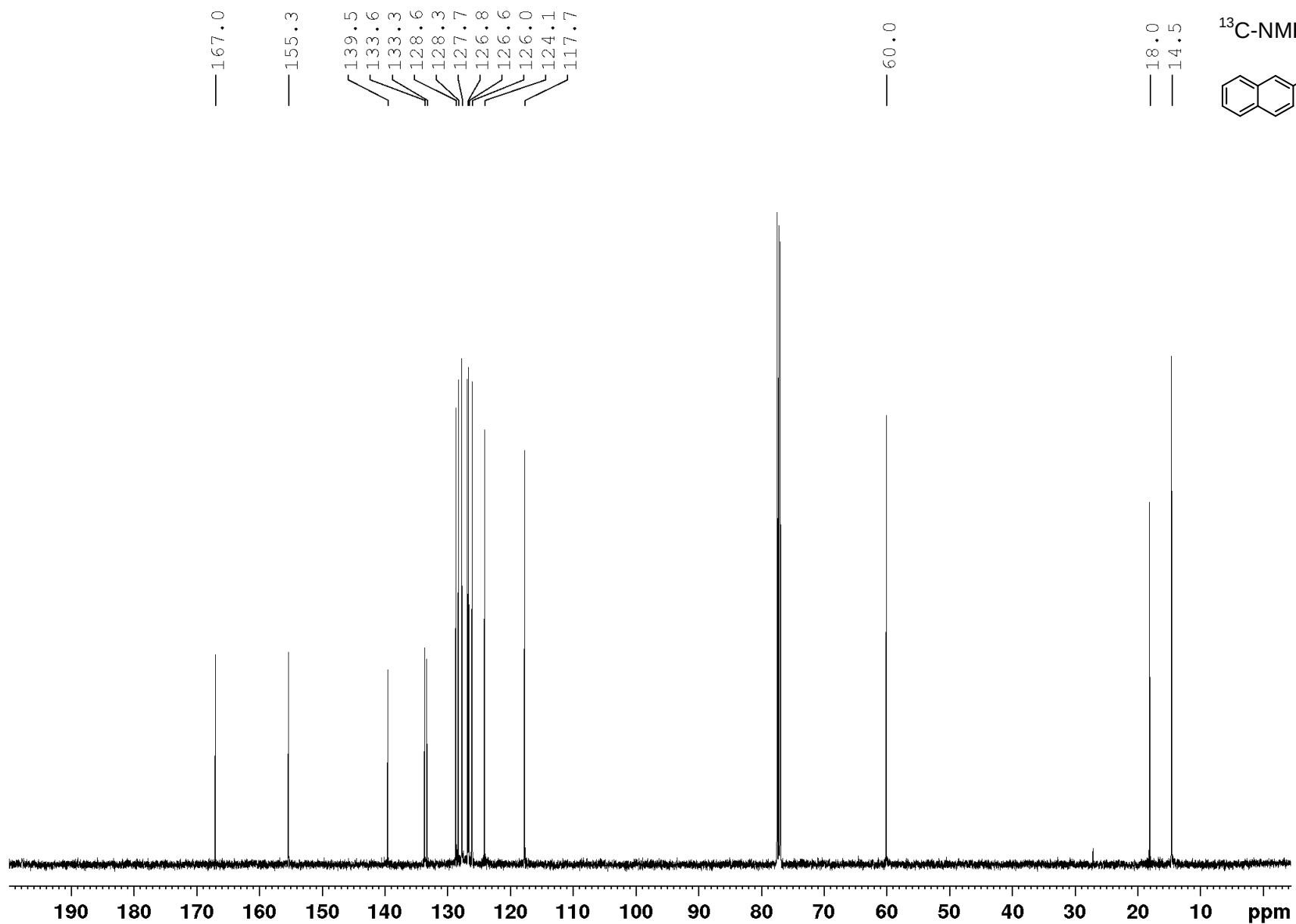
S159

^1H - ^1H -NOESY

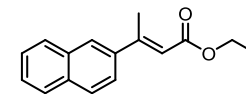


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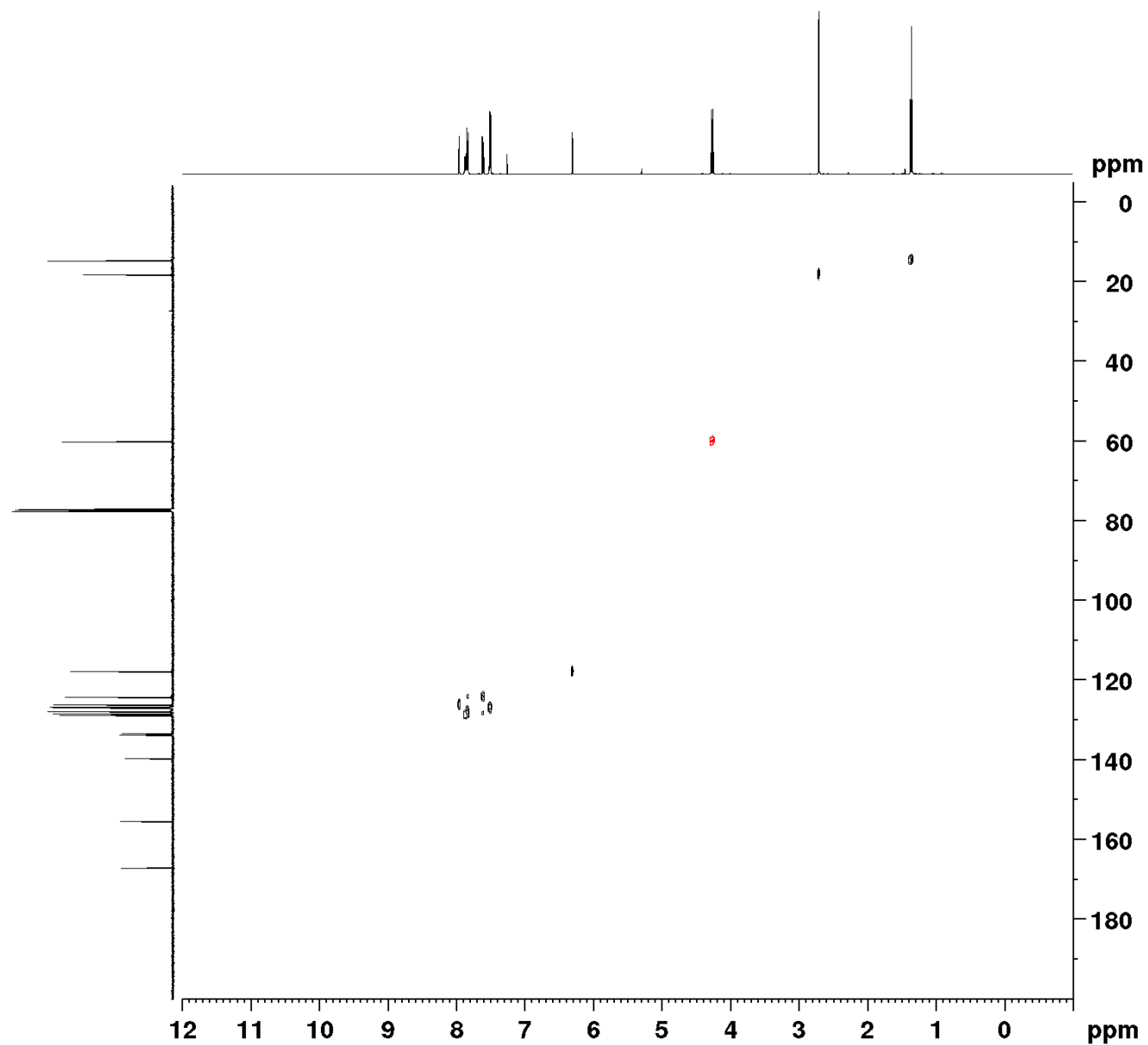




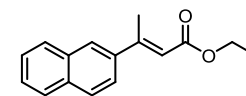
^1H - ^{13}C - HSQC



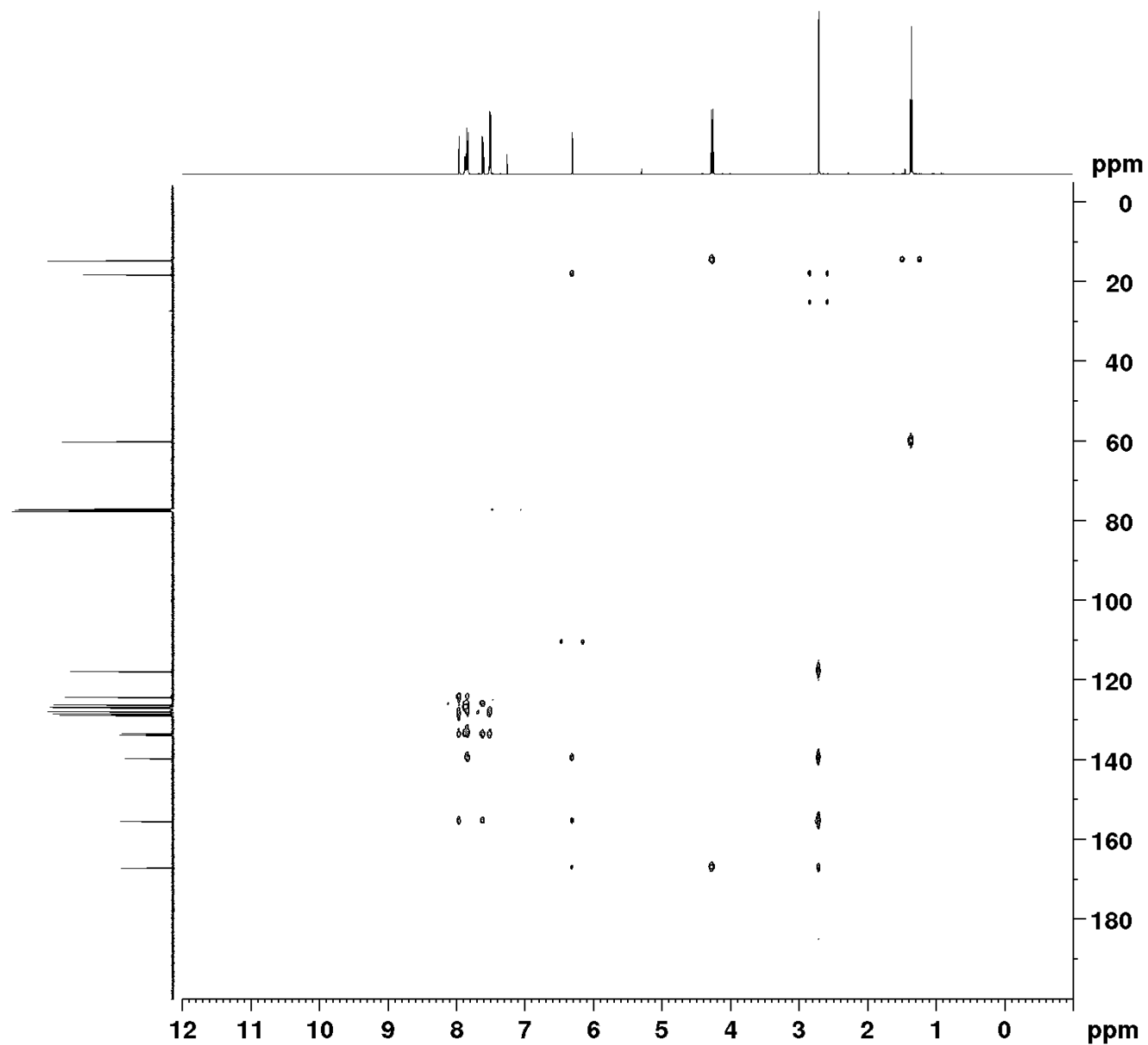
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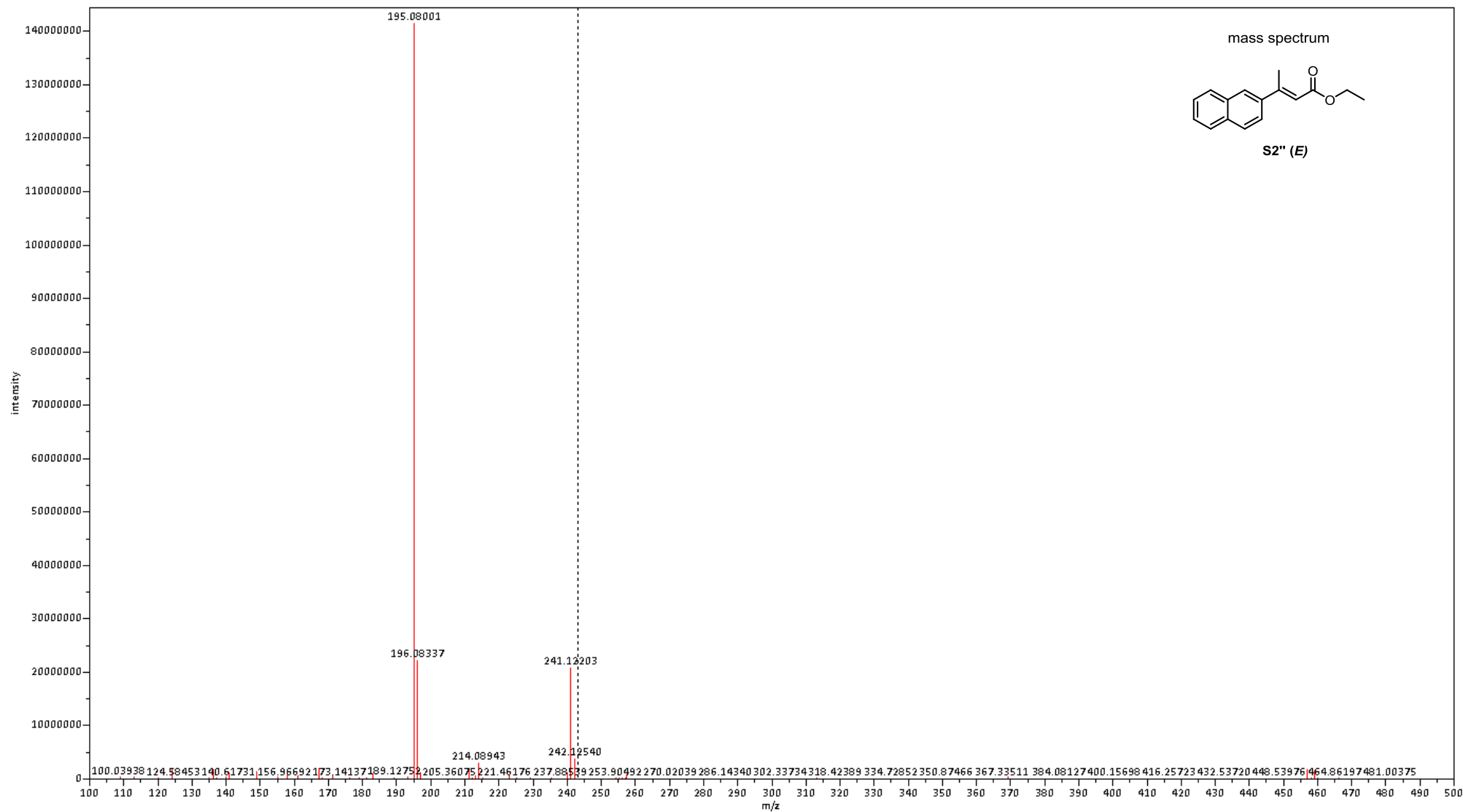


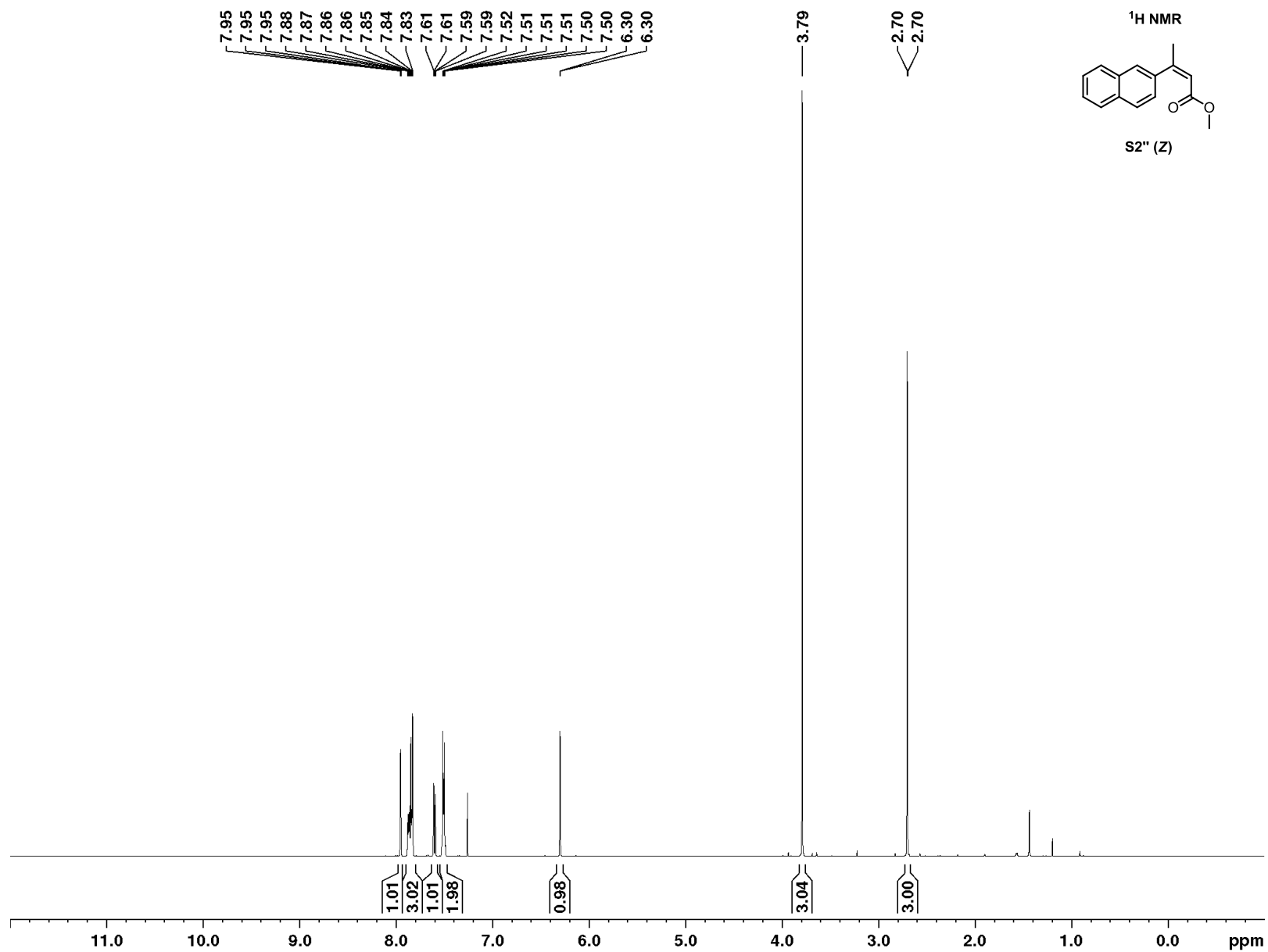
^1H - ^{13}C - HMBC



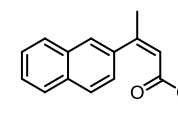
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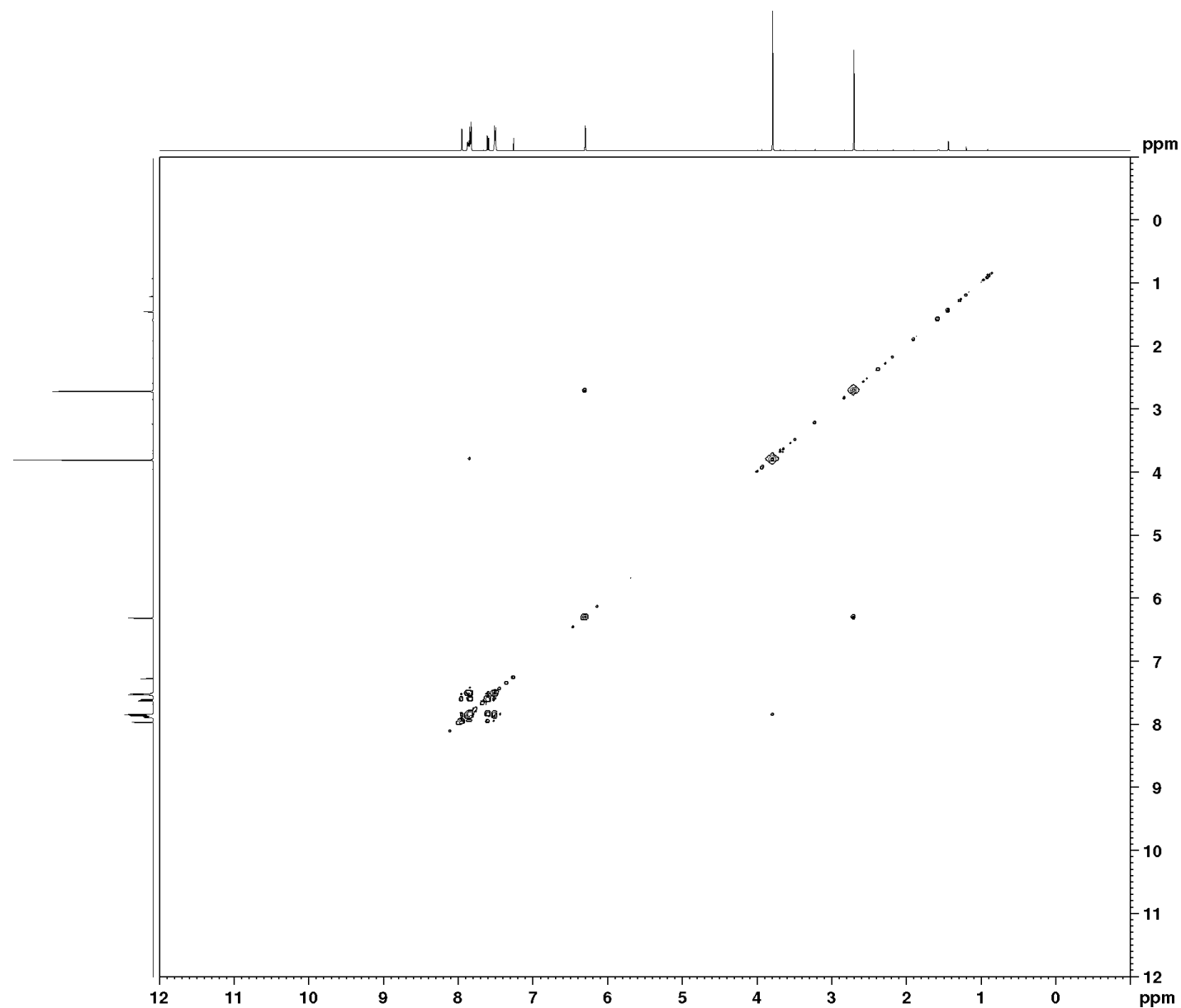




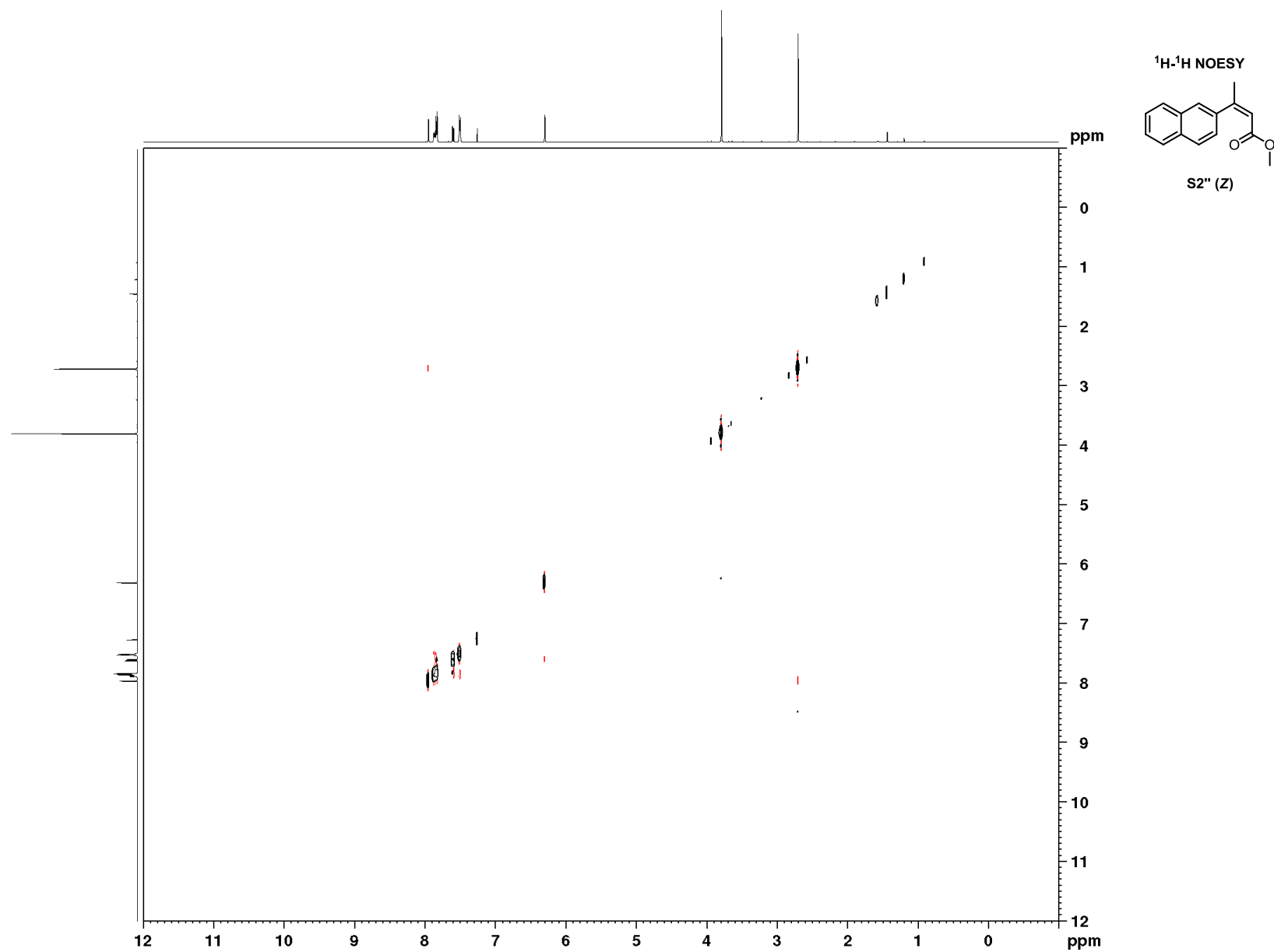
^1H - ^1H COSY



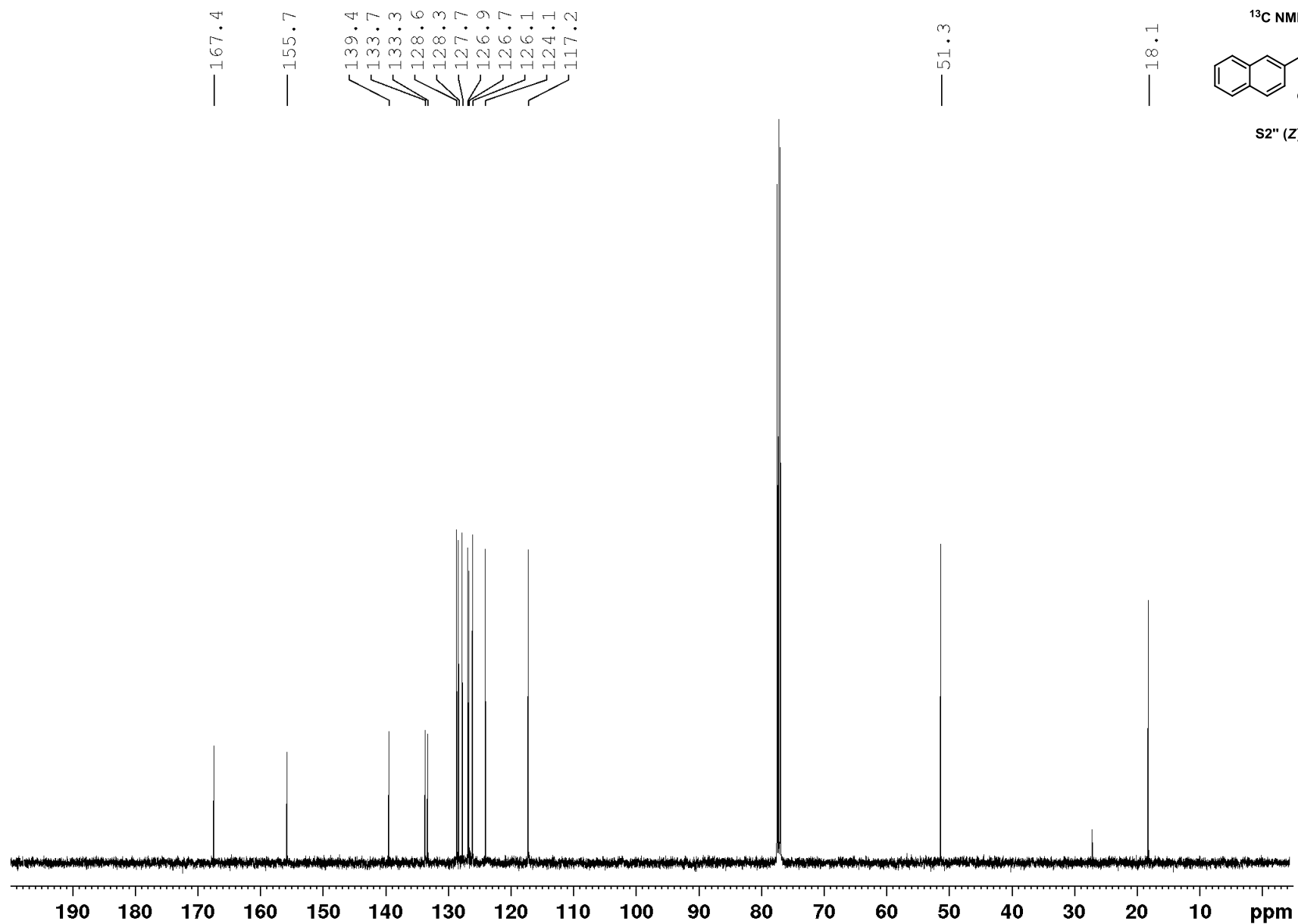
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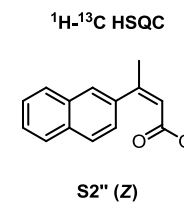
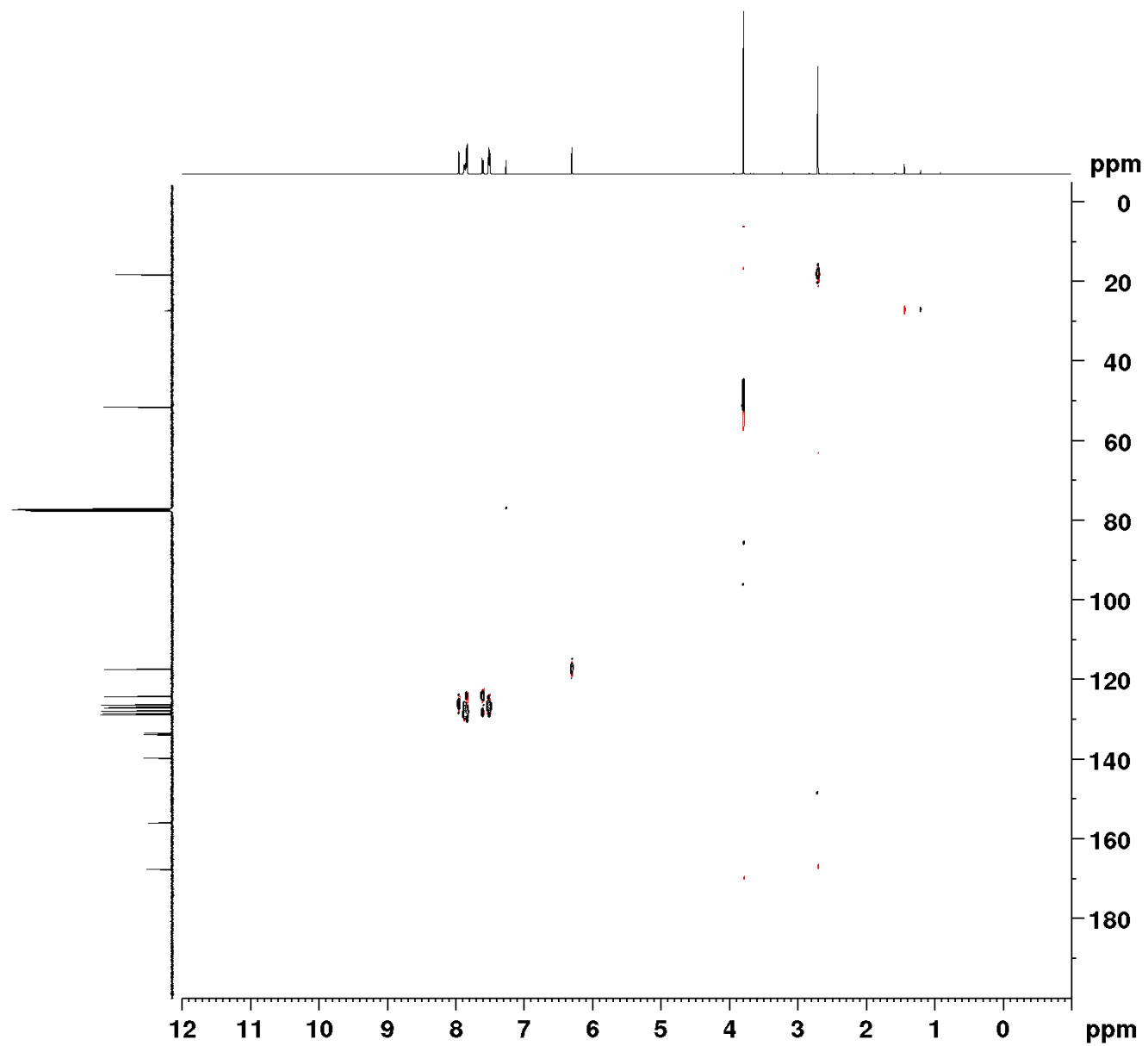


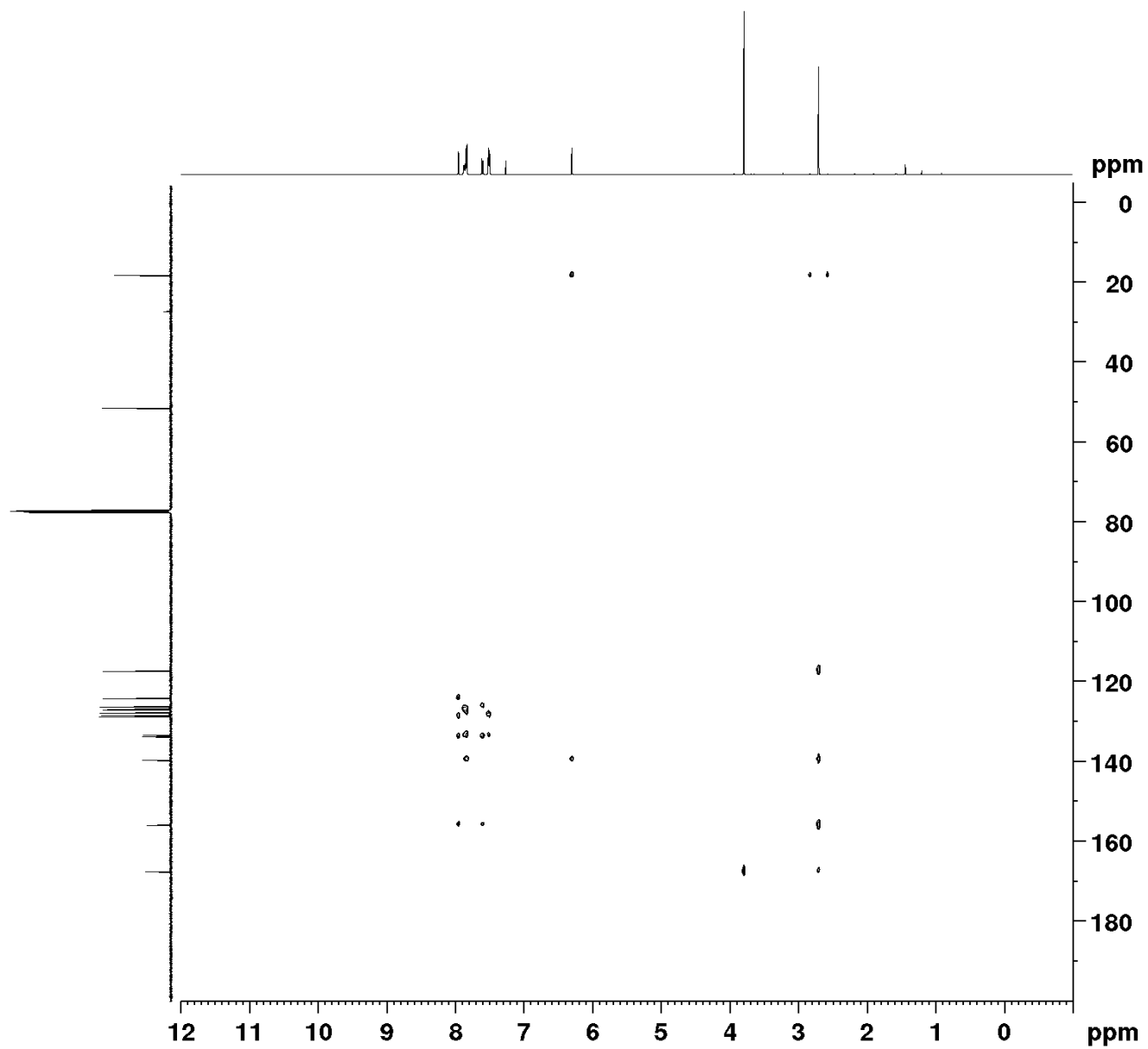
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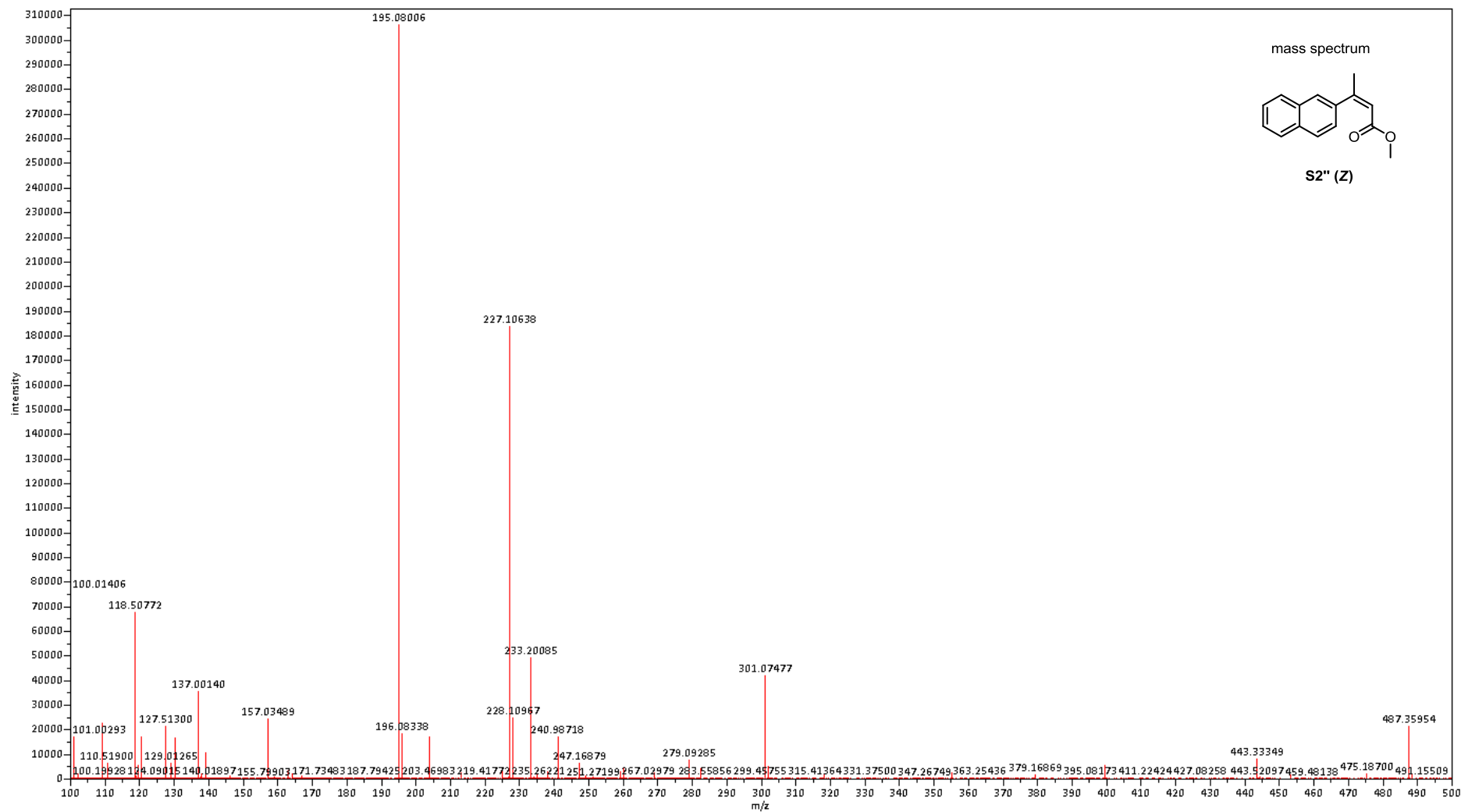


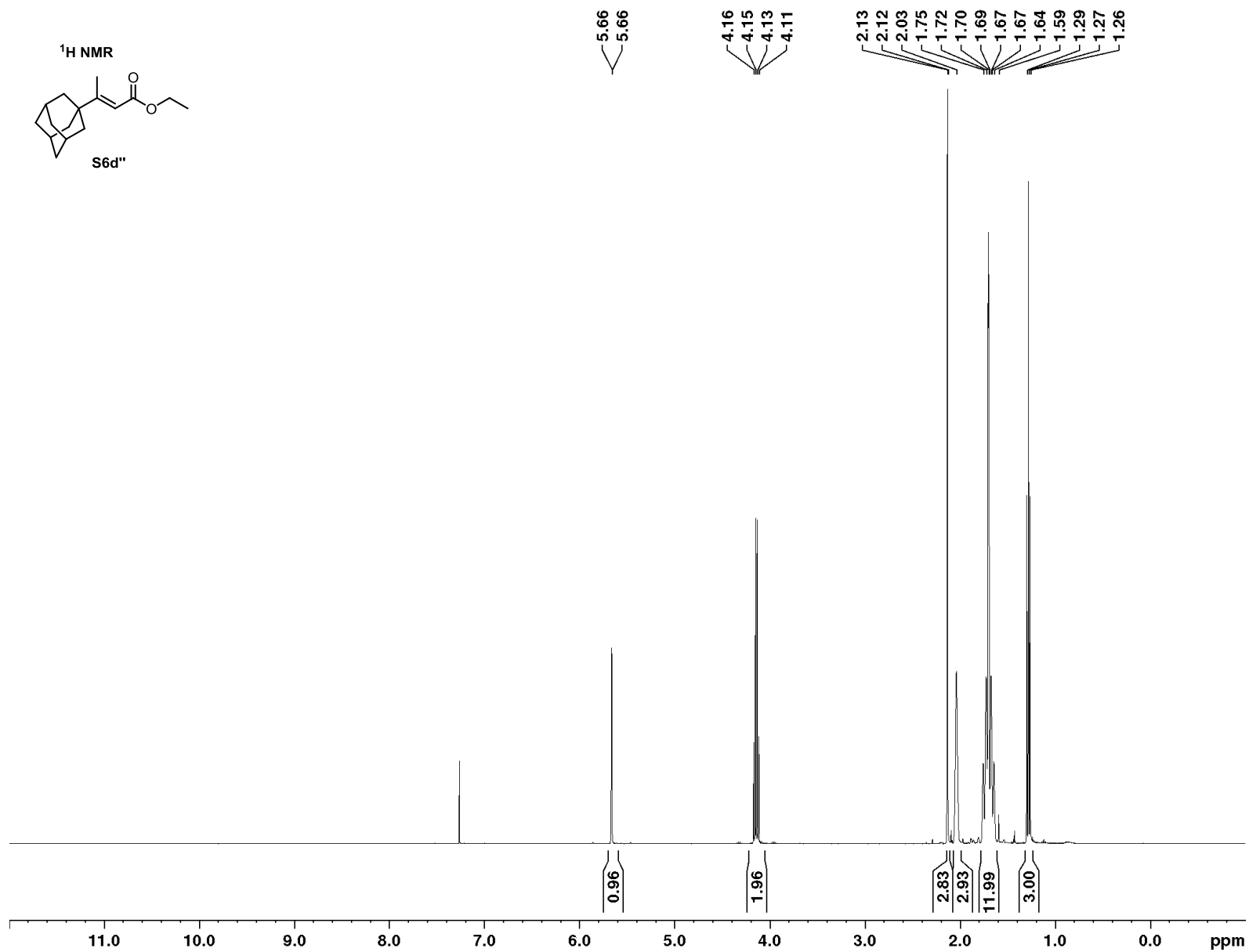
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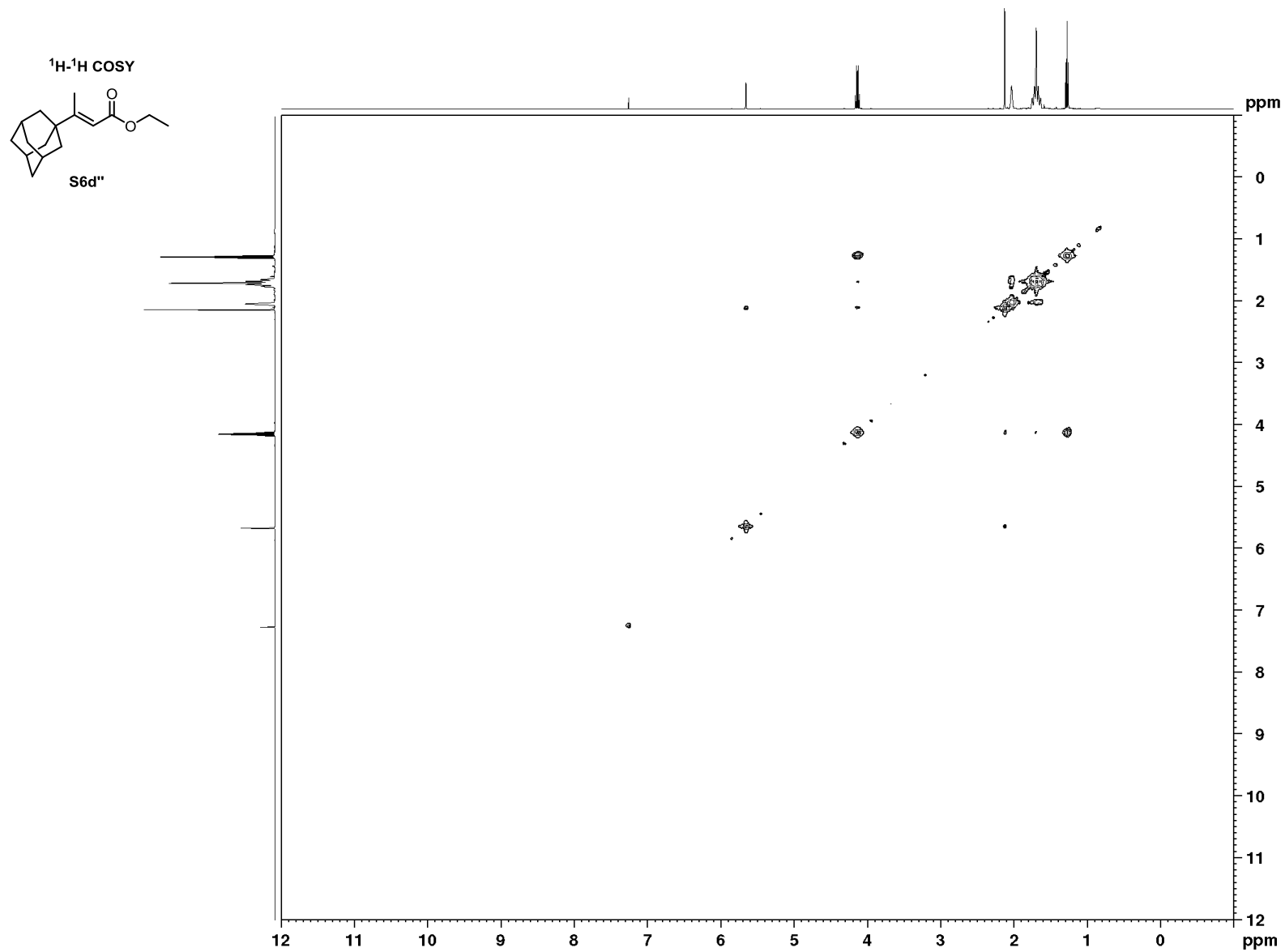


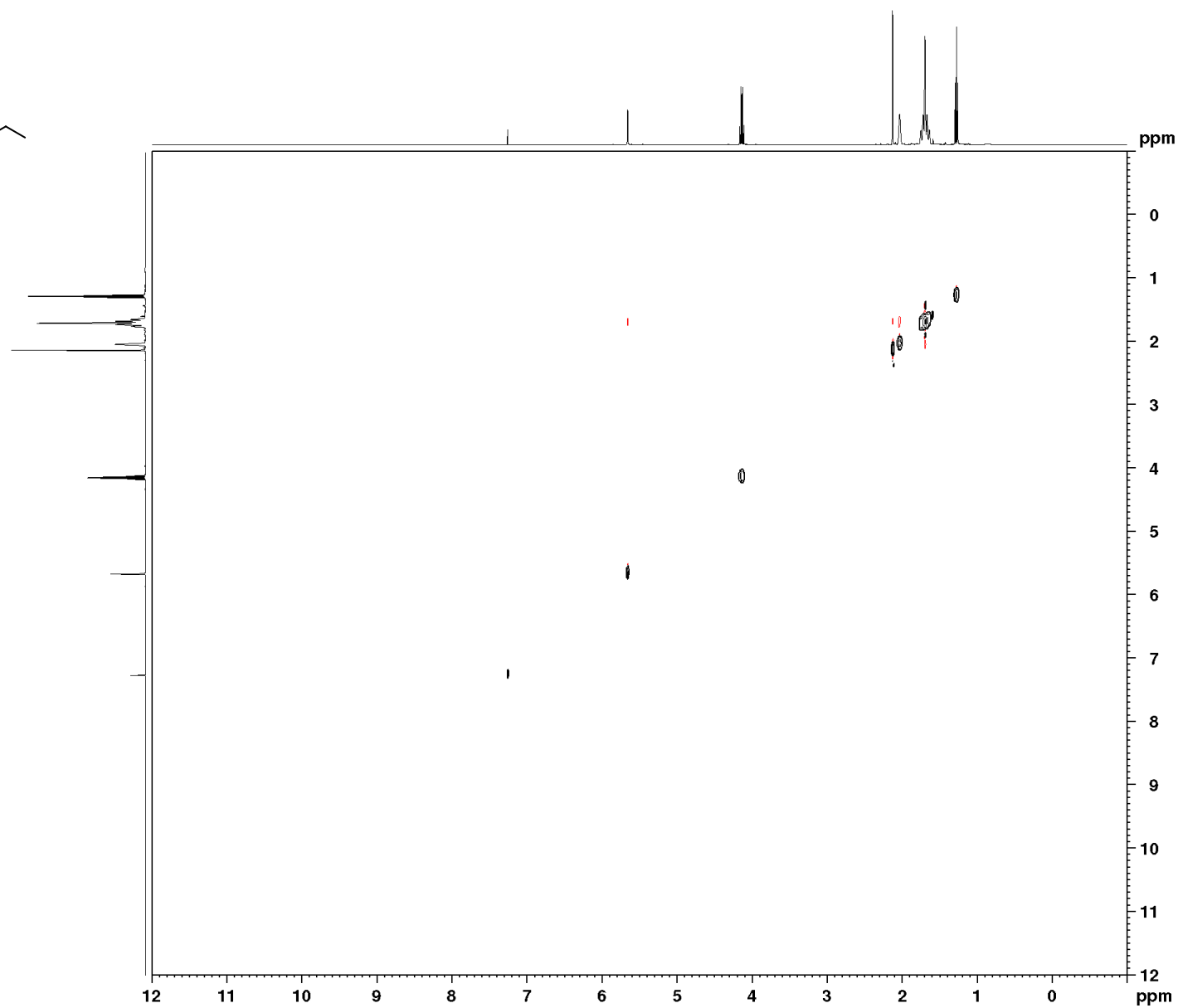
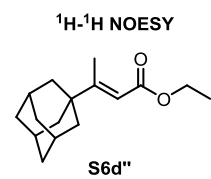


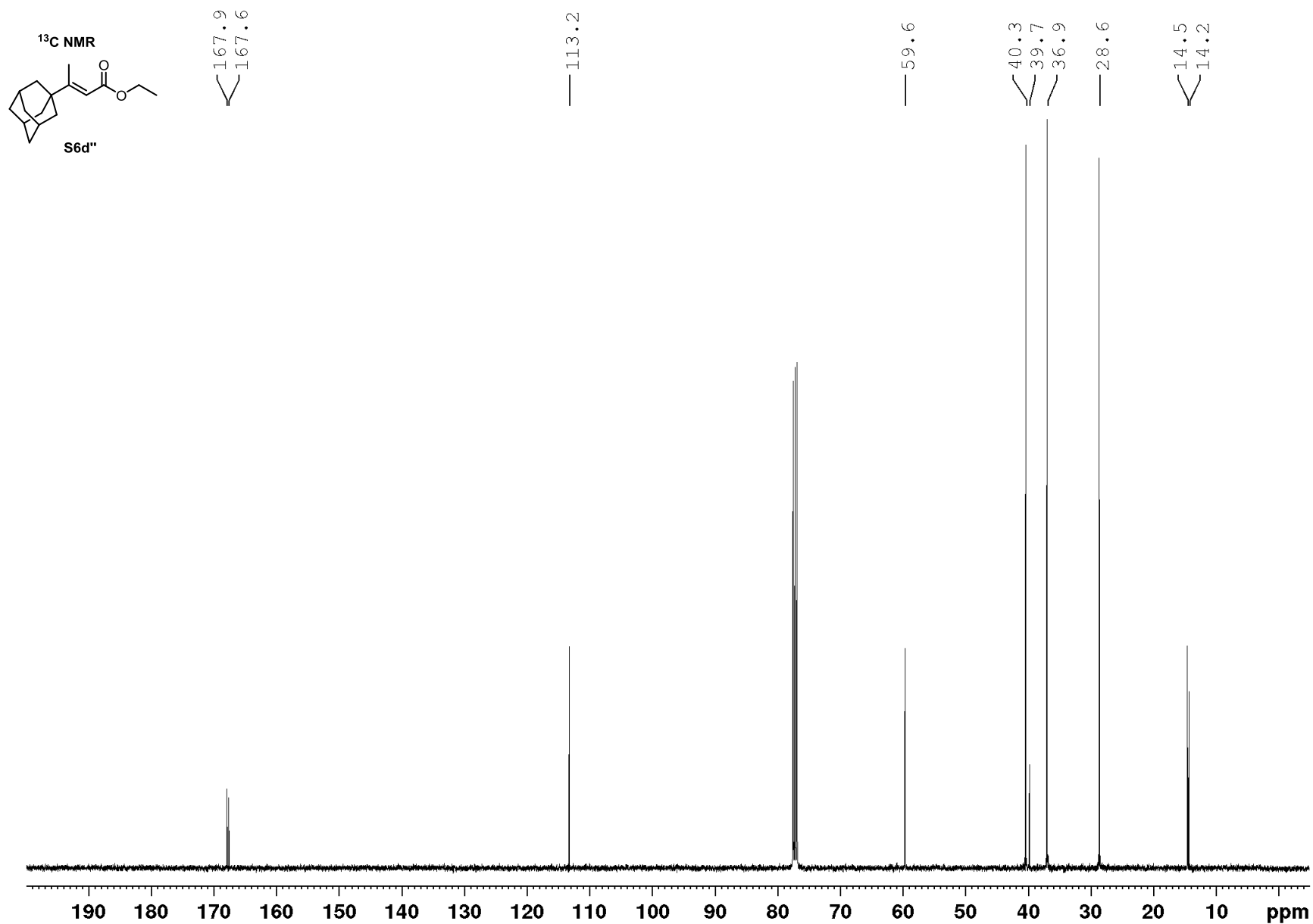


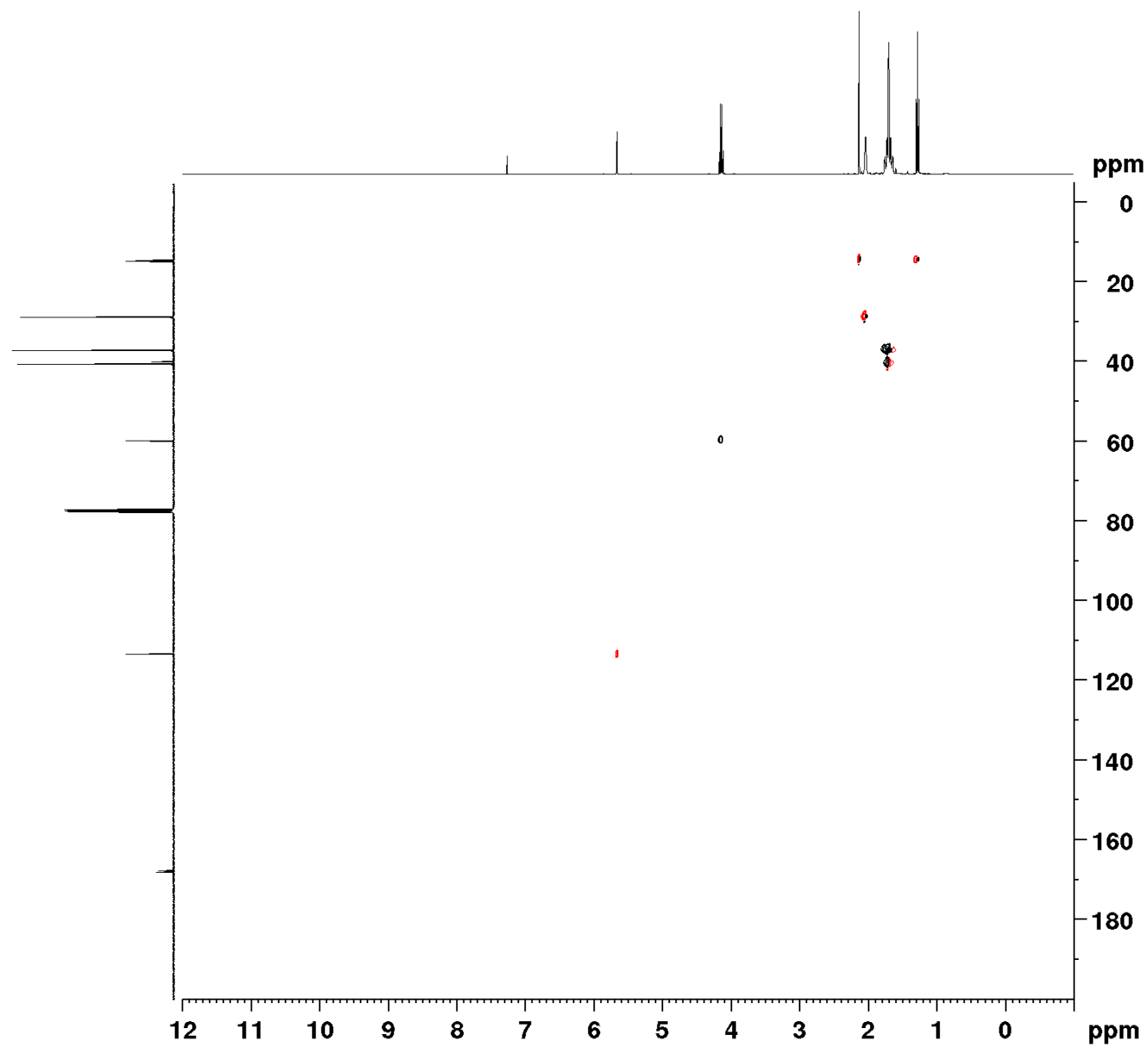
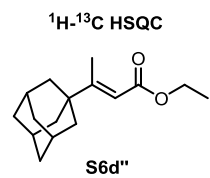


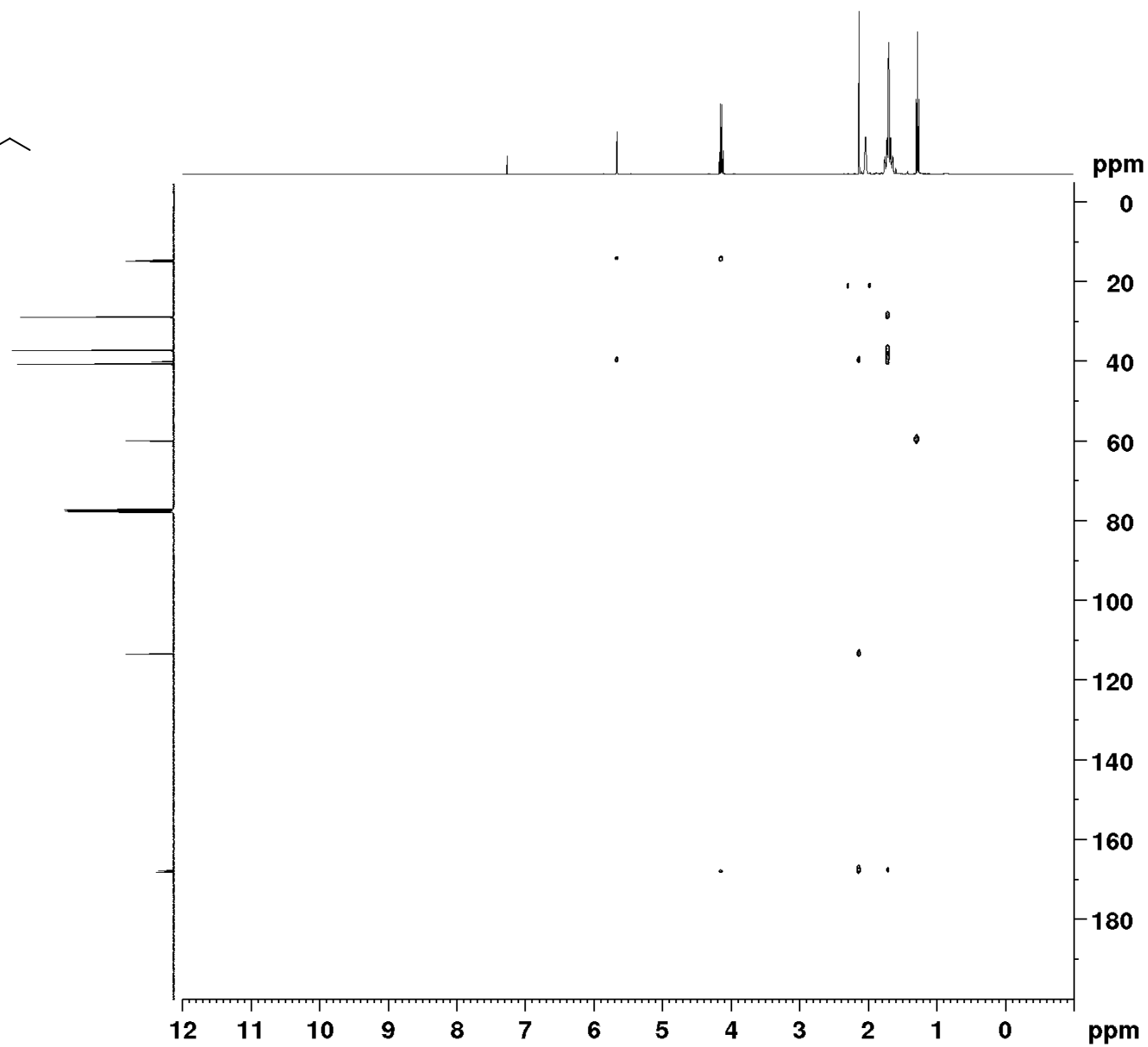
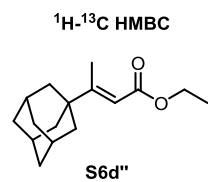


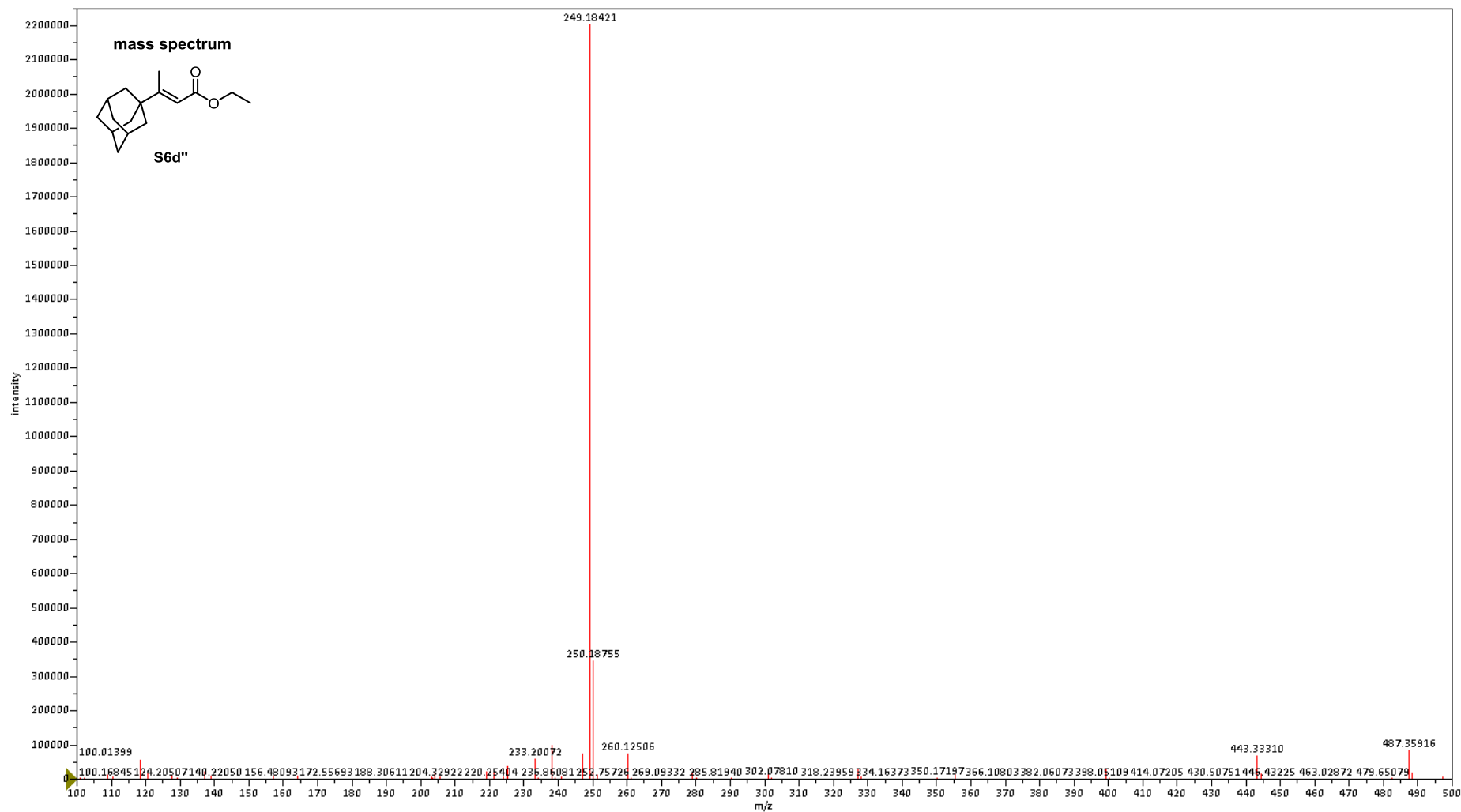


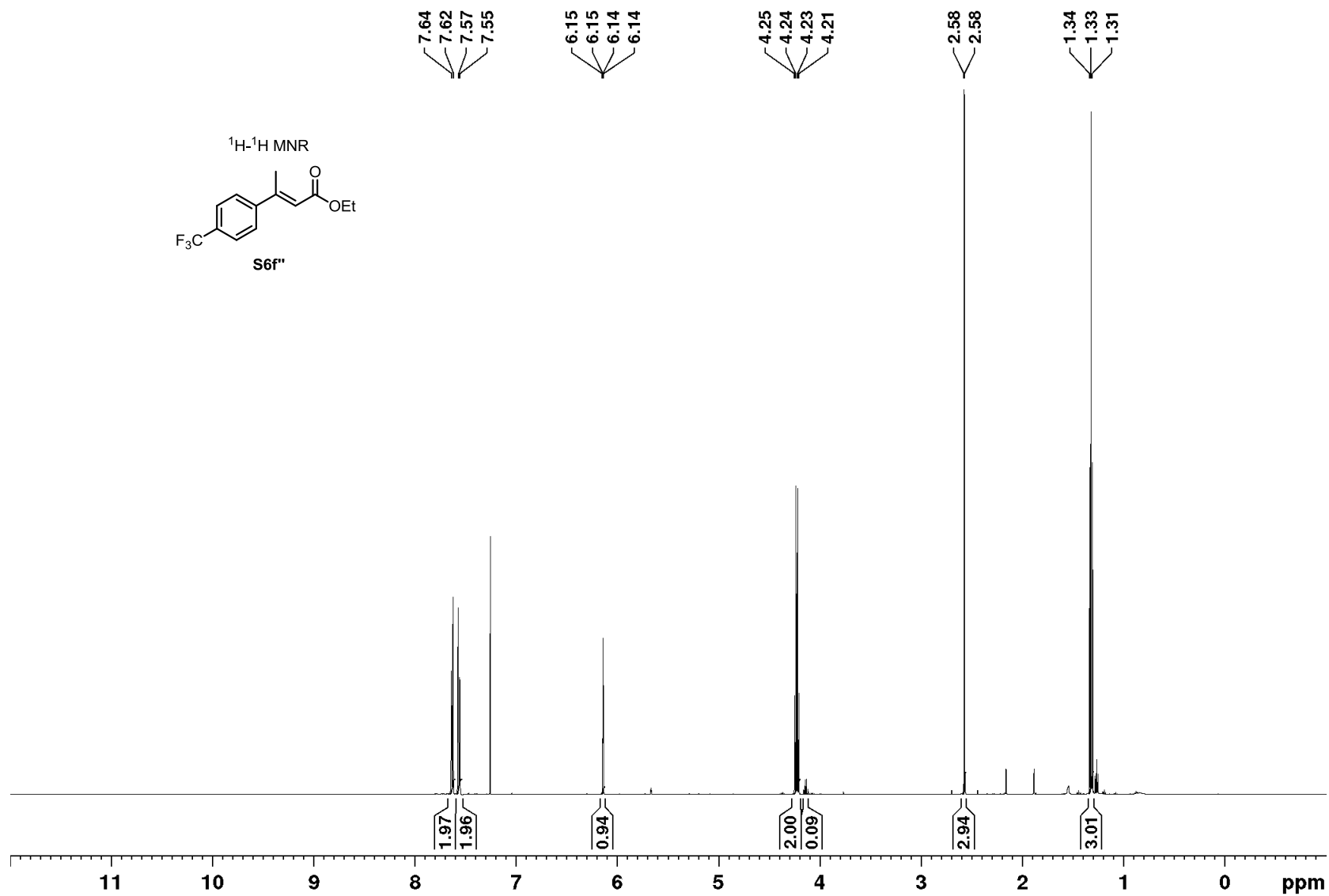
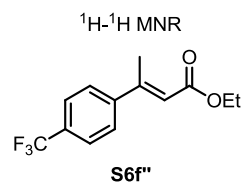


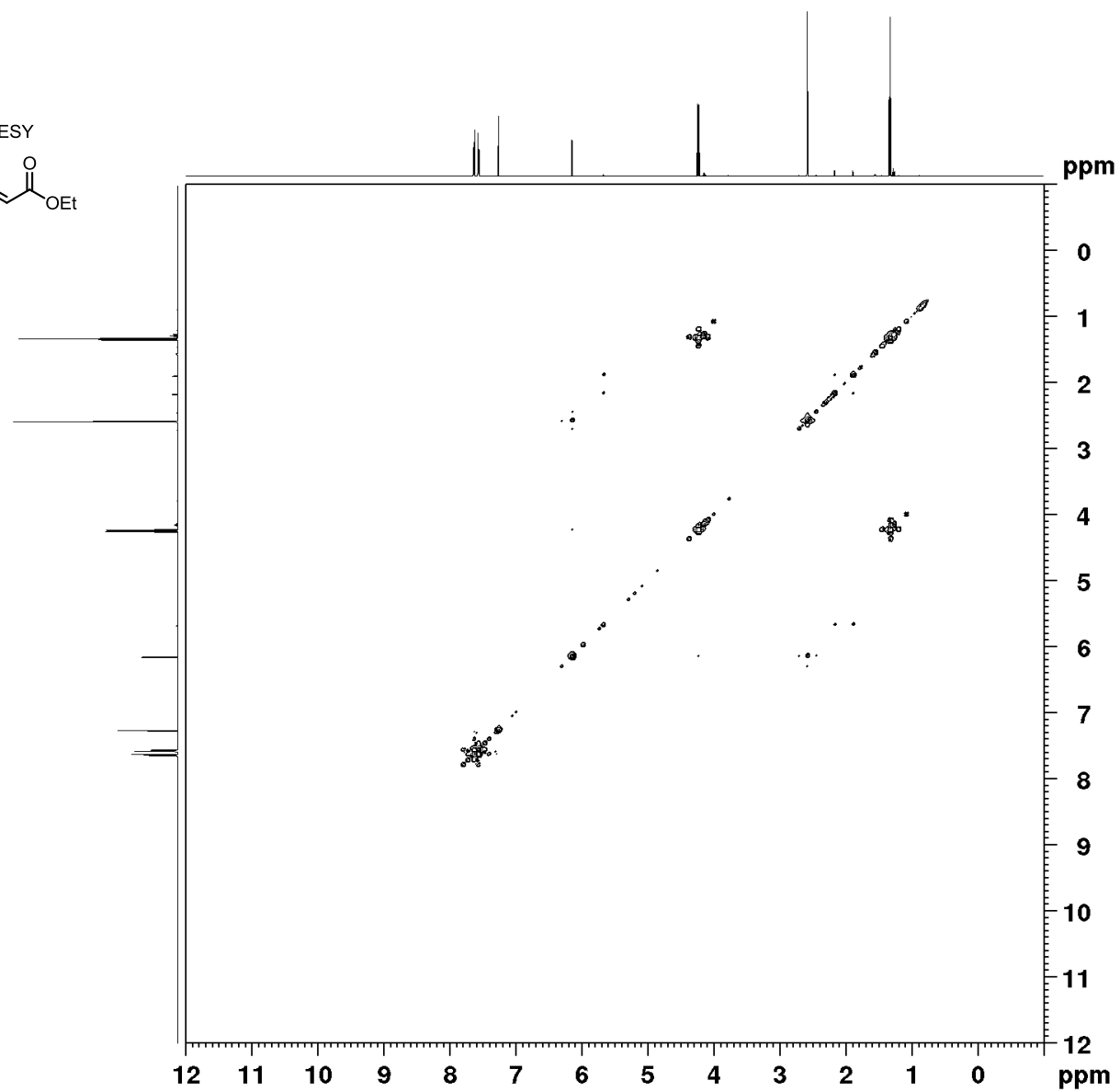
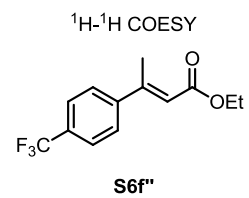


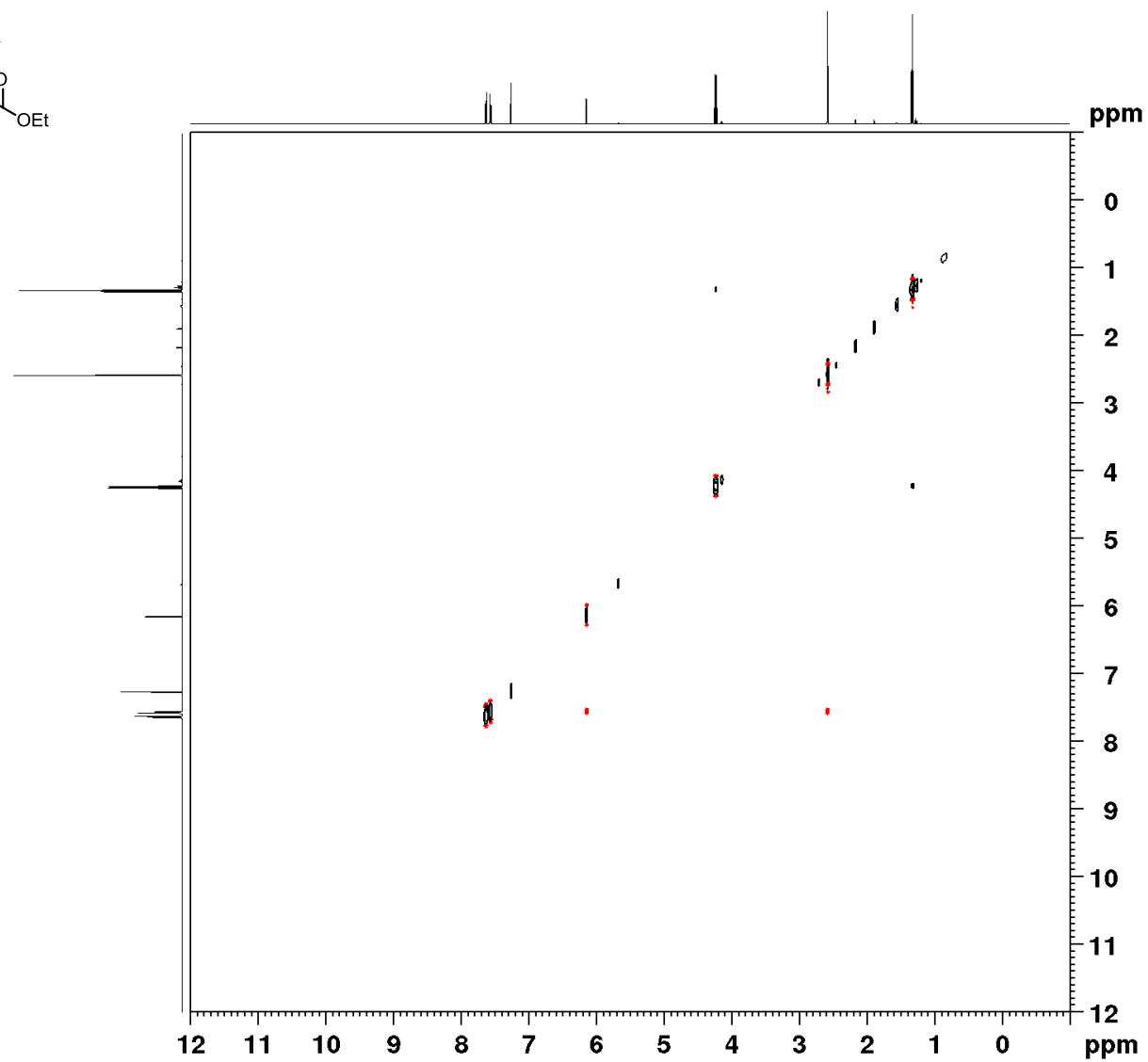
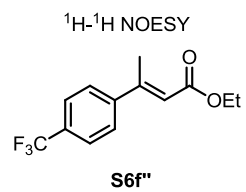


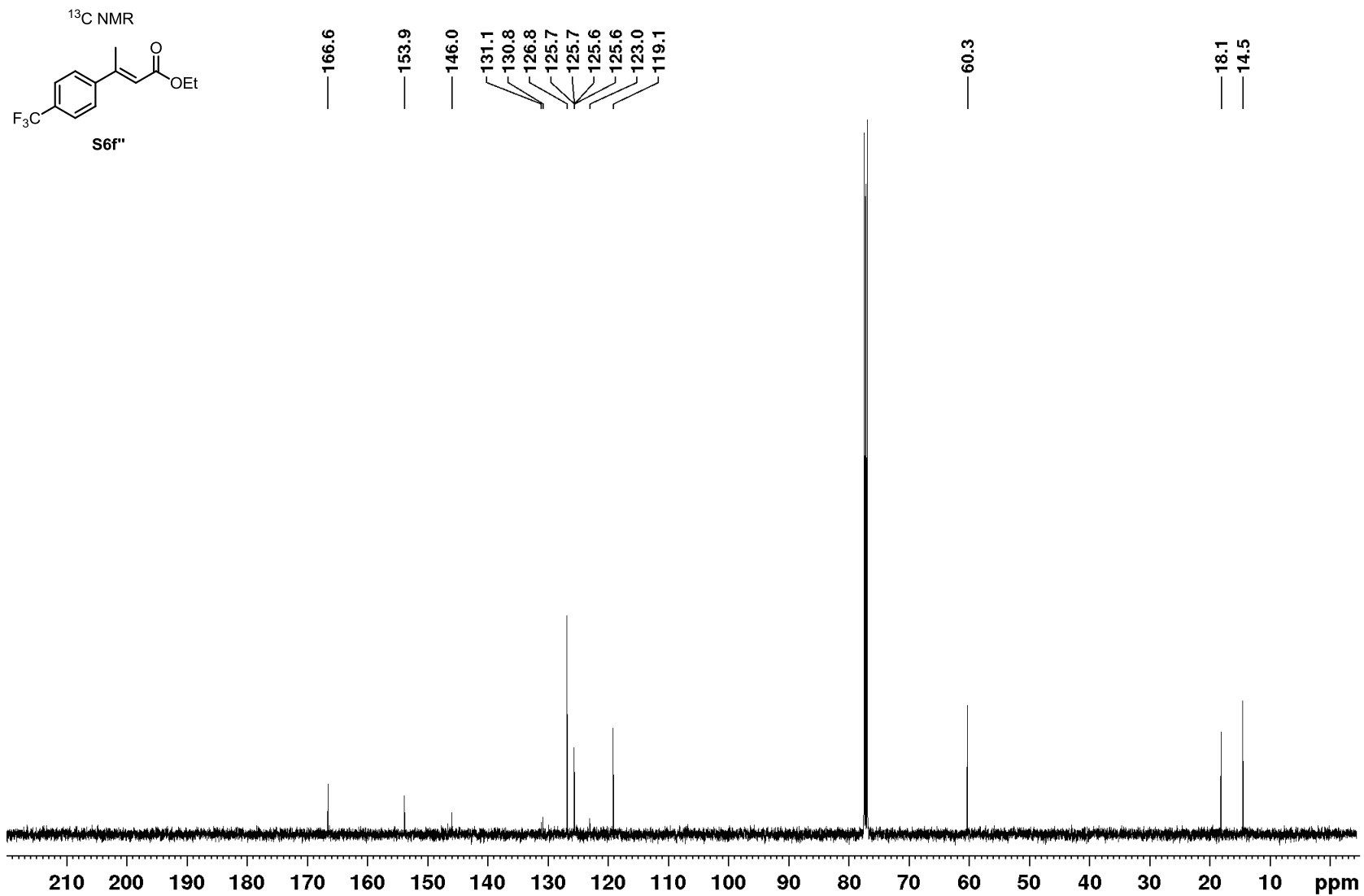


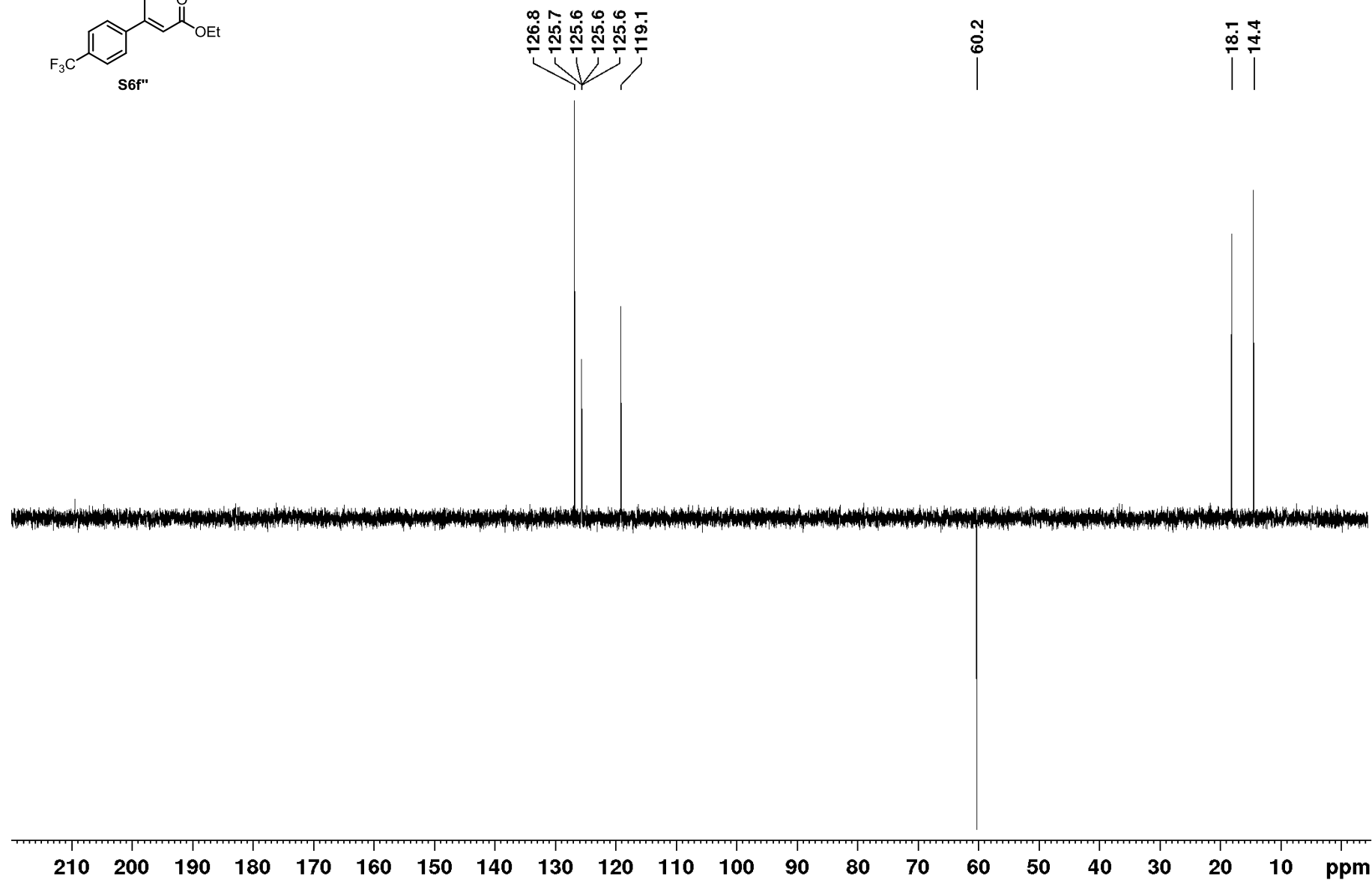
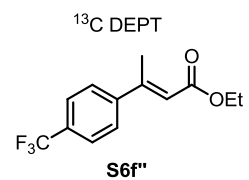


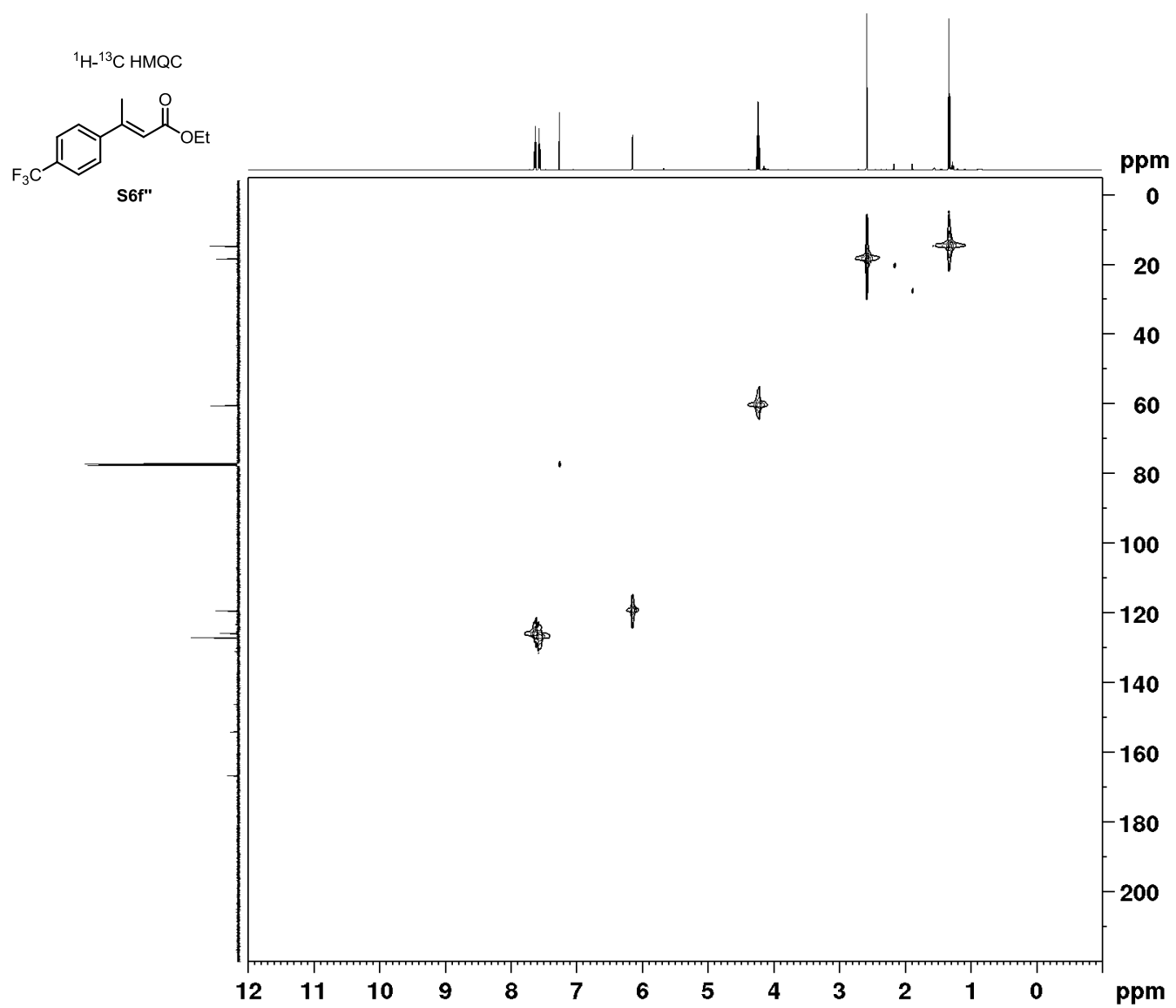


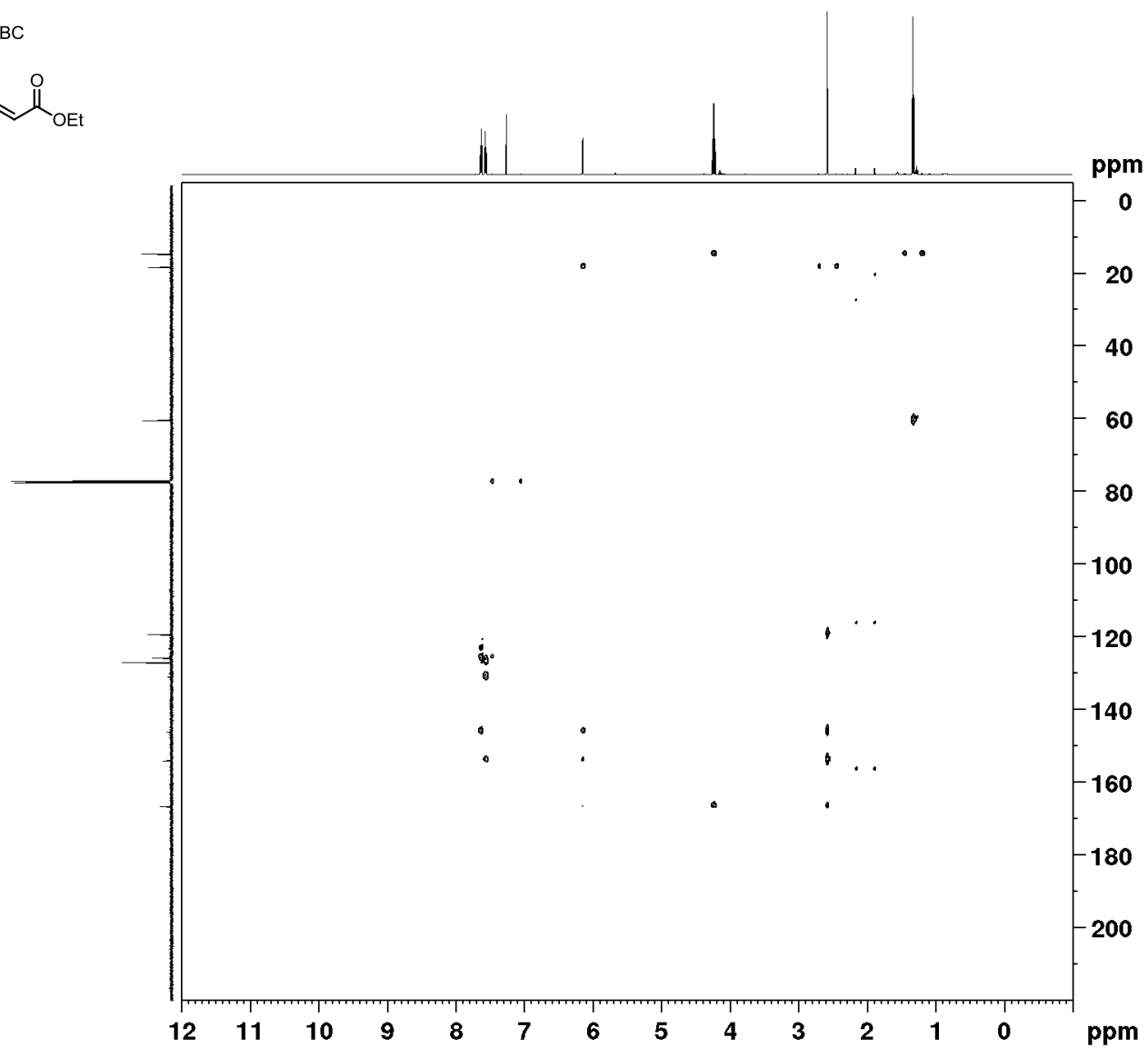
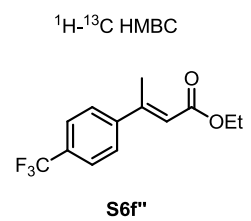


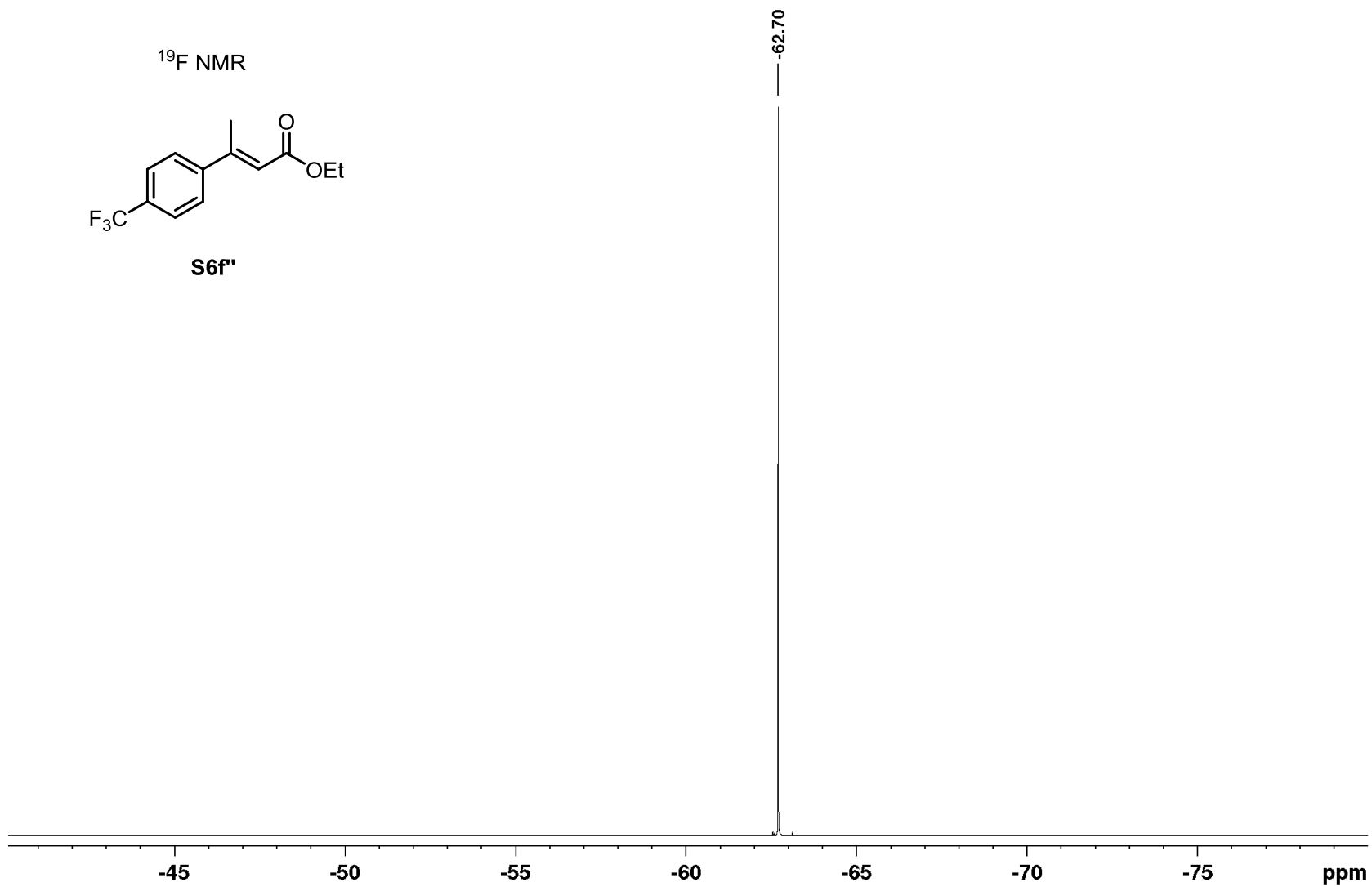


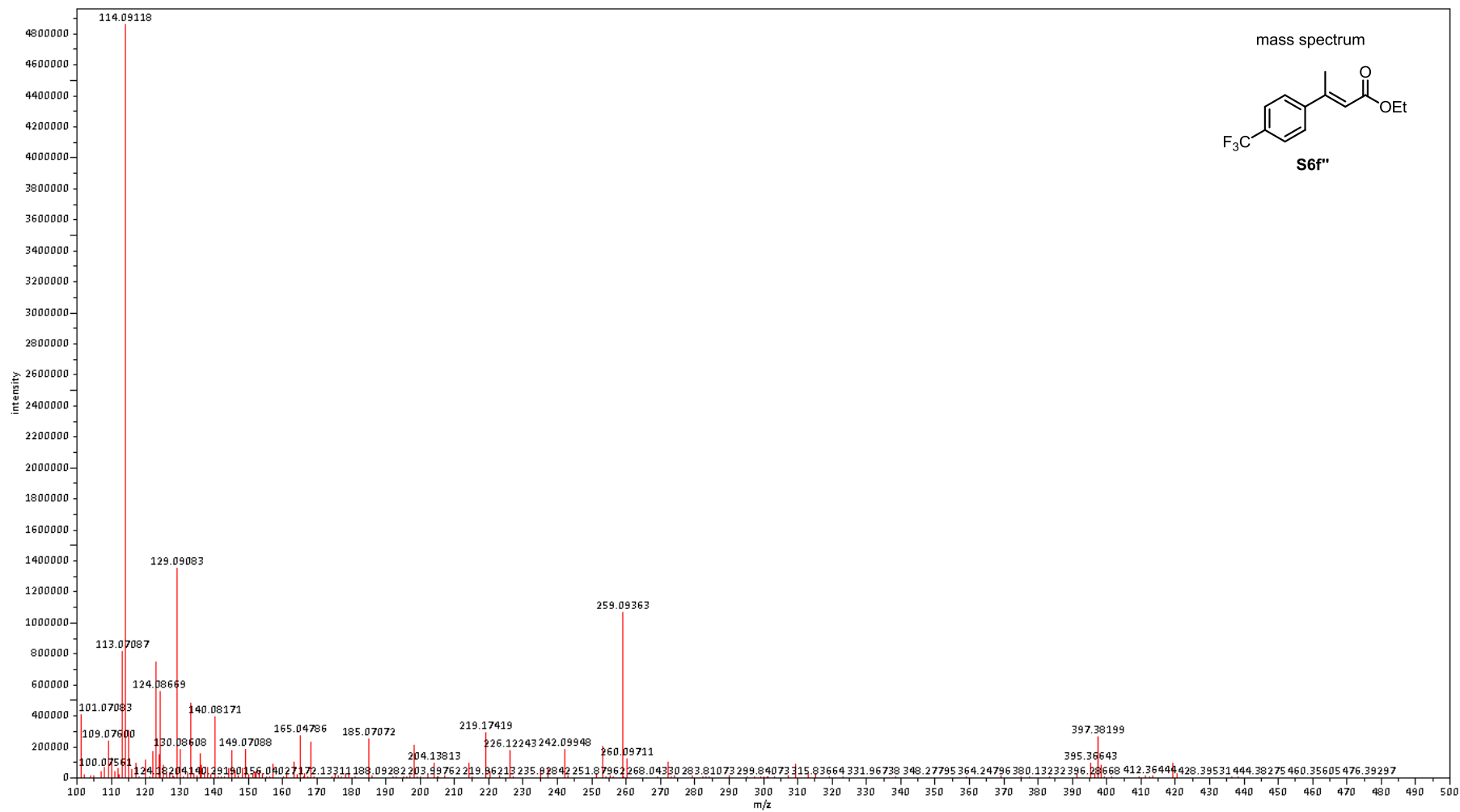


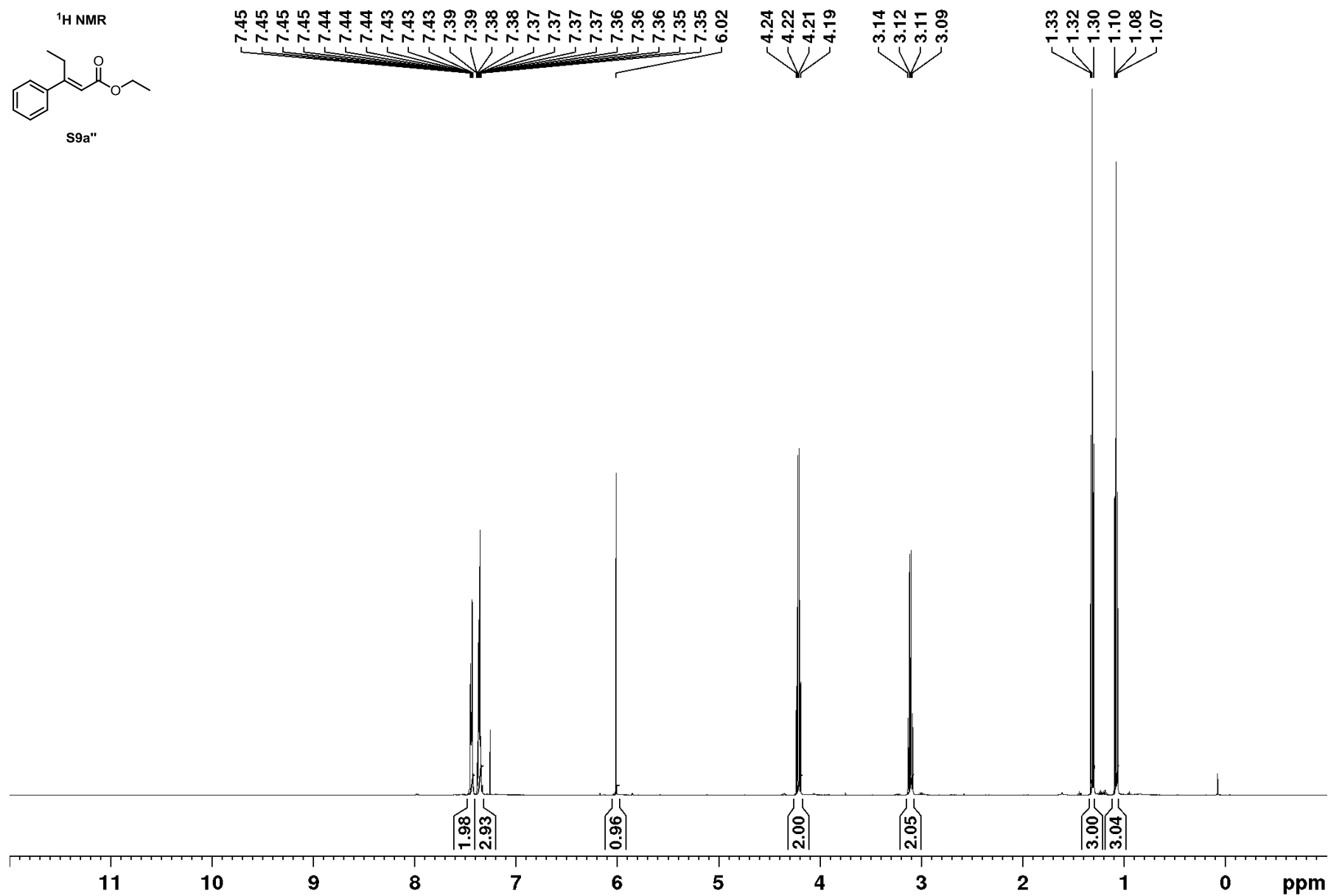
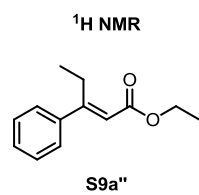




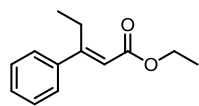




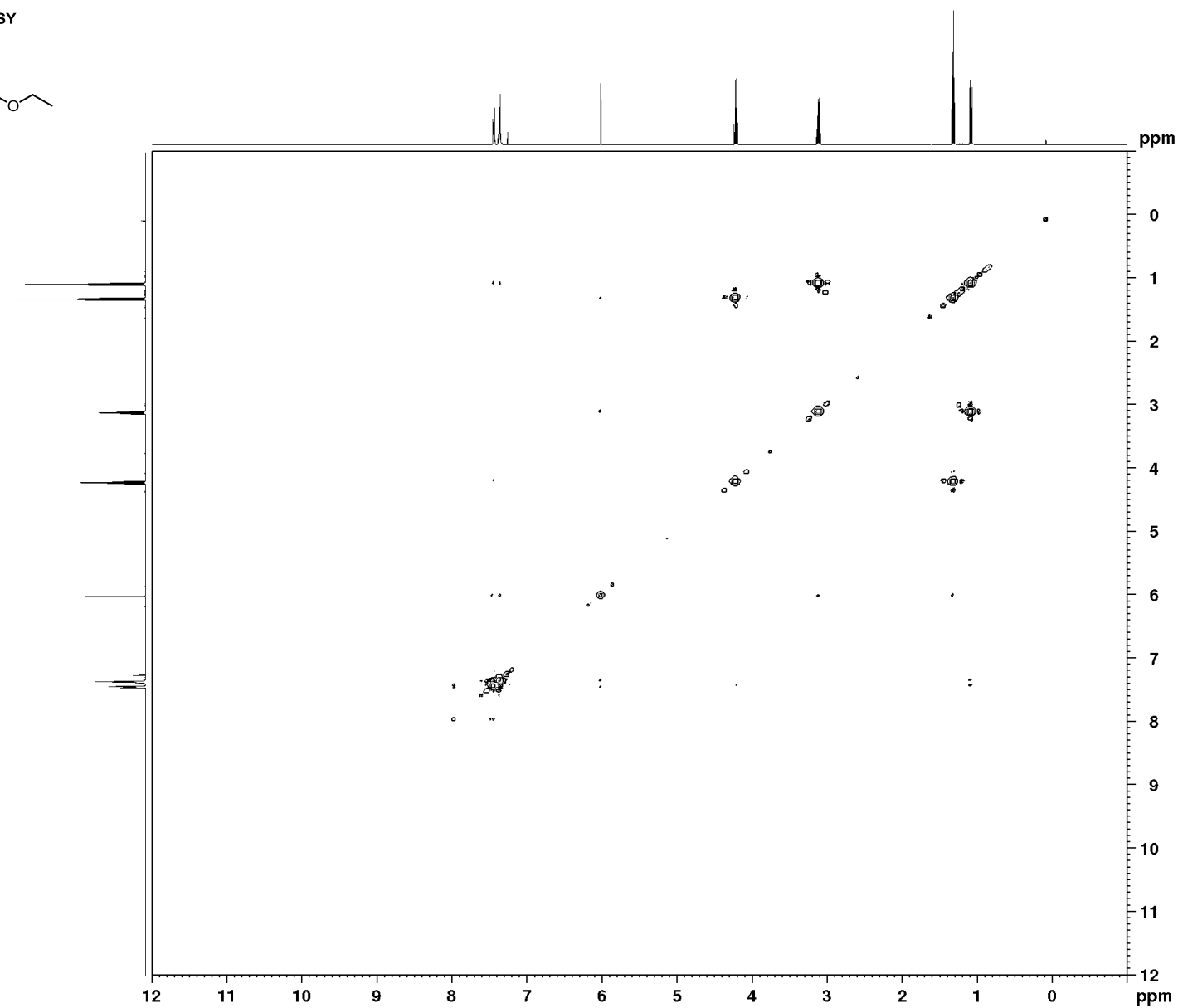




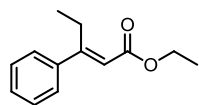
^1H - ^1H COSY



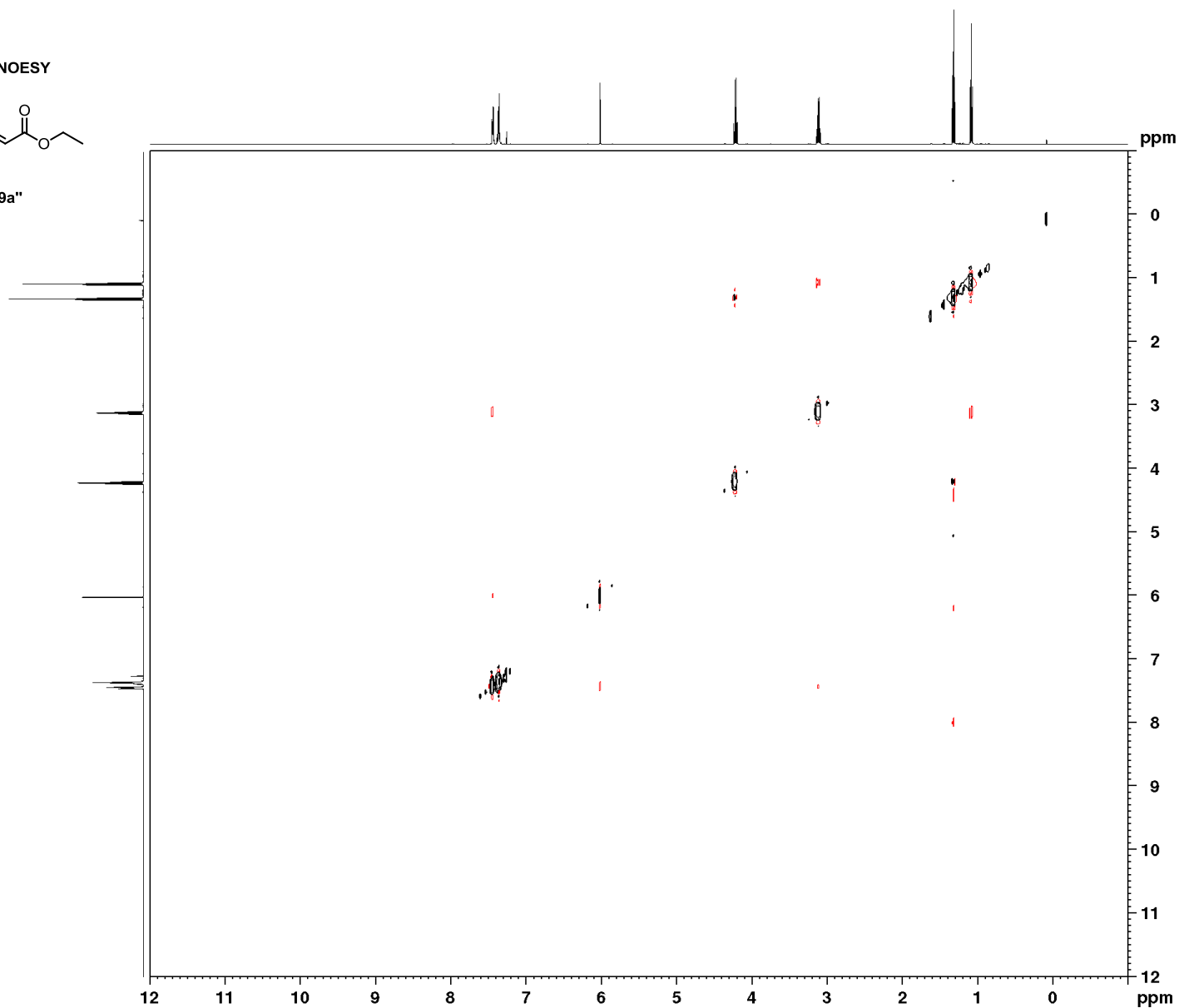
S9a''

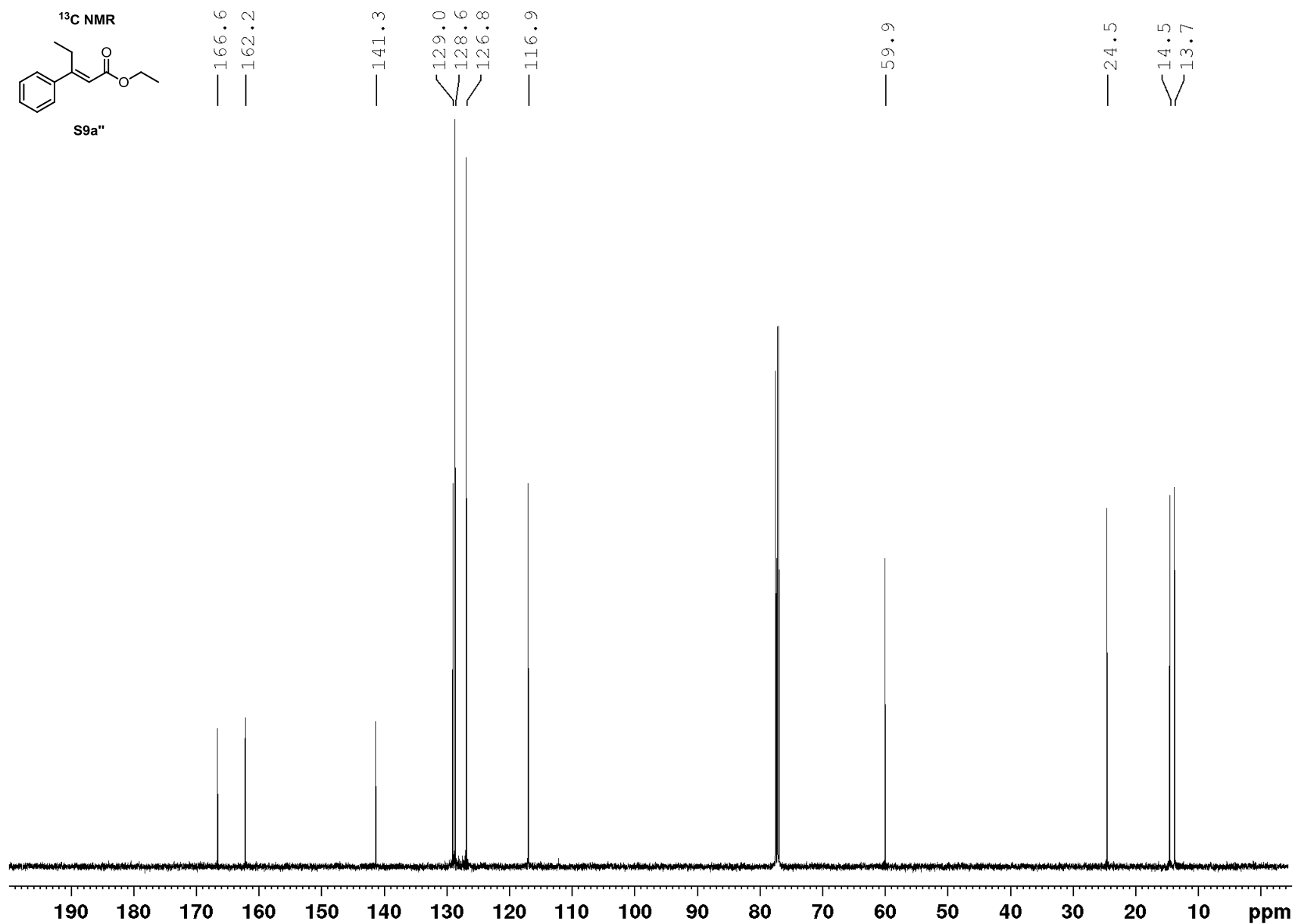
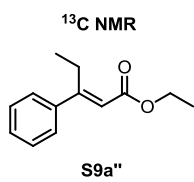


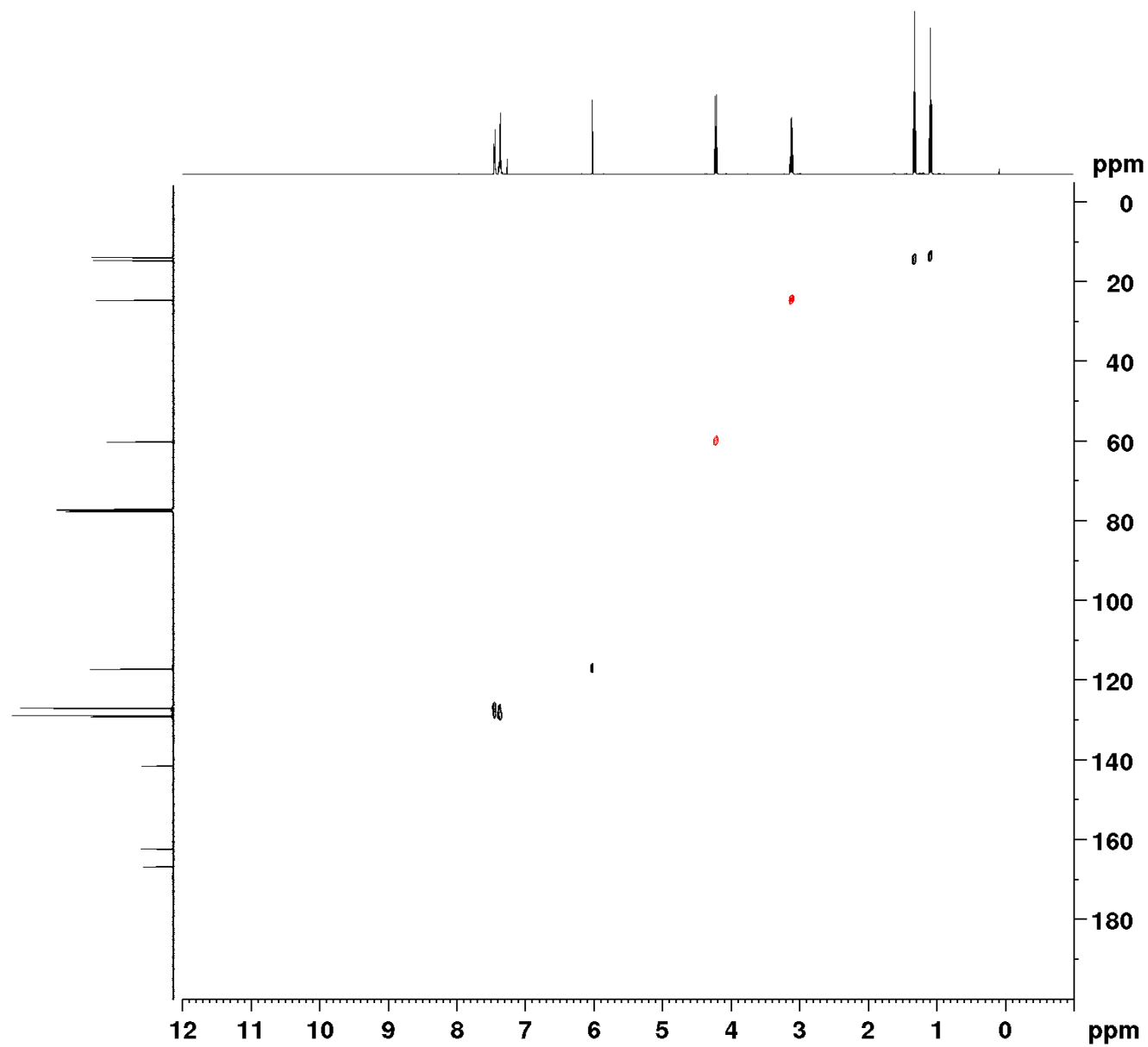
¹H-¹H NOESY

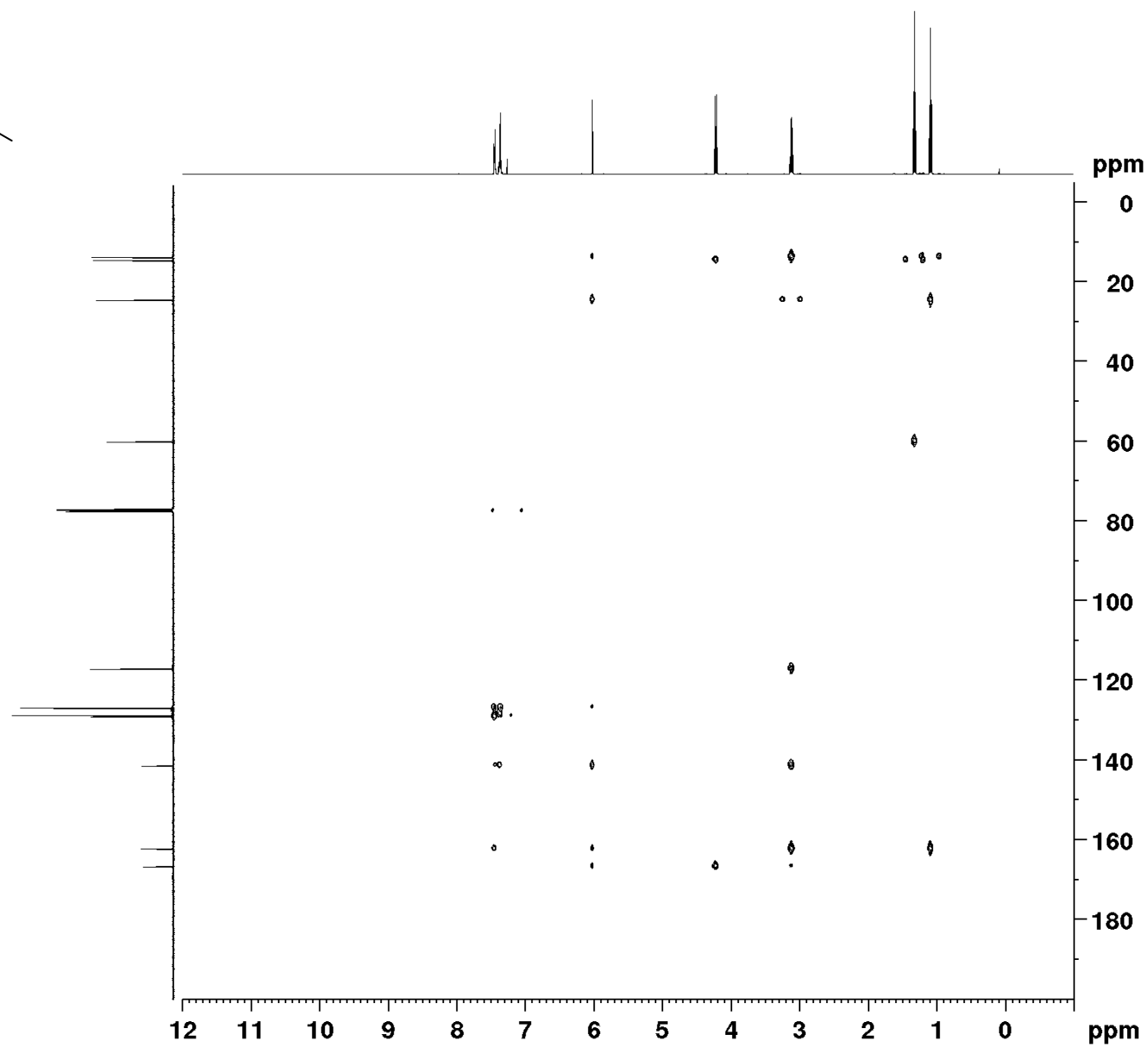
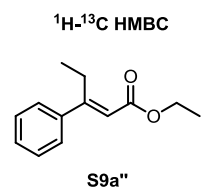


S9a''

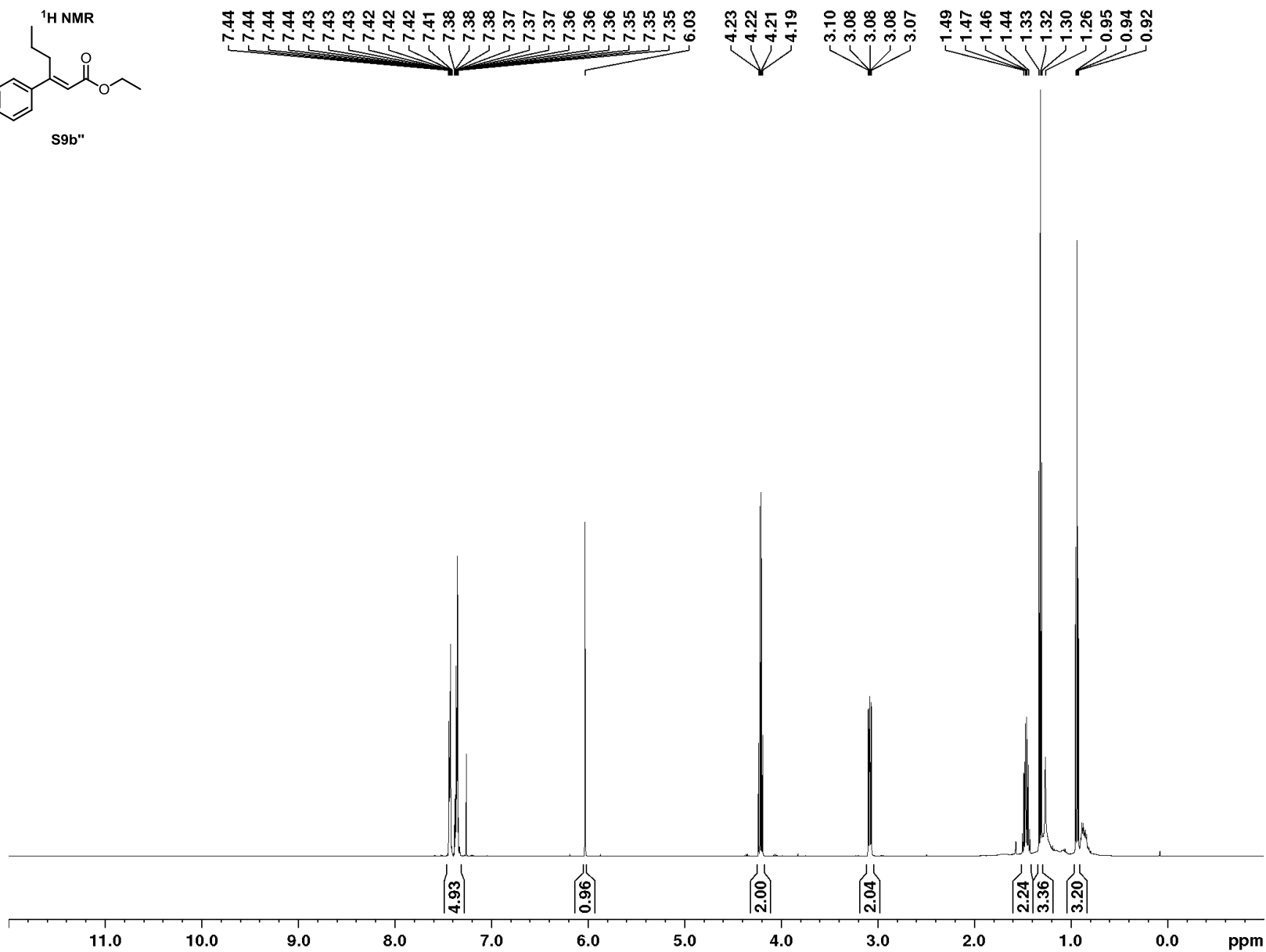


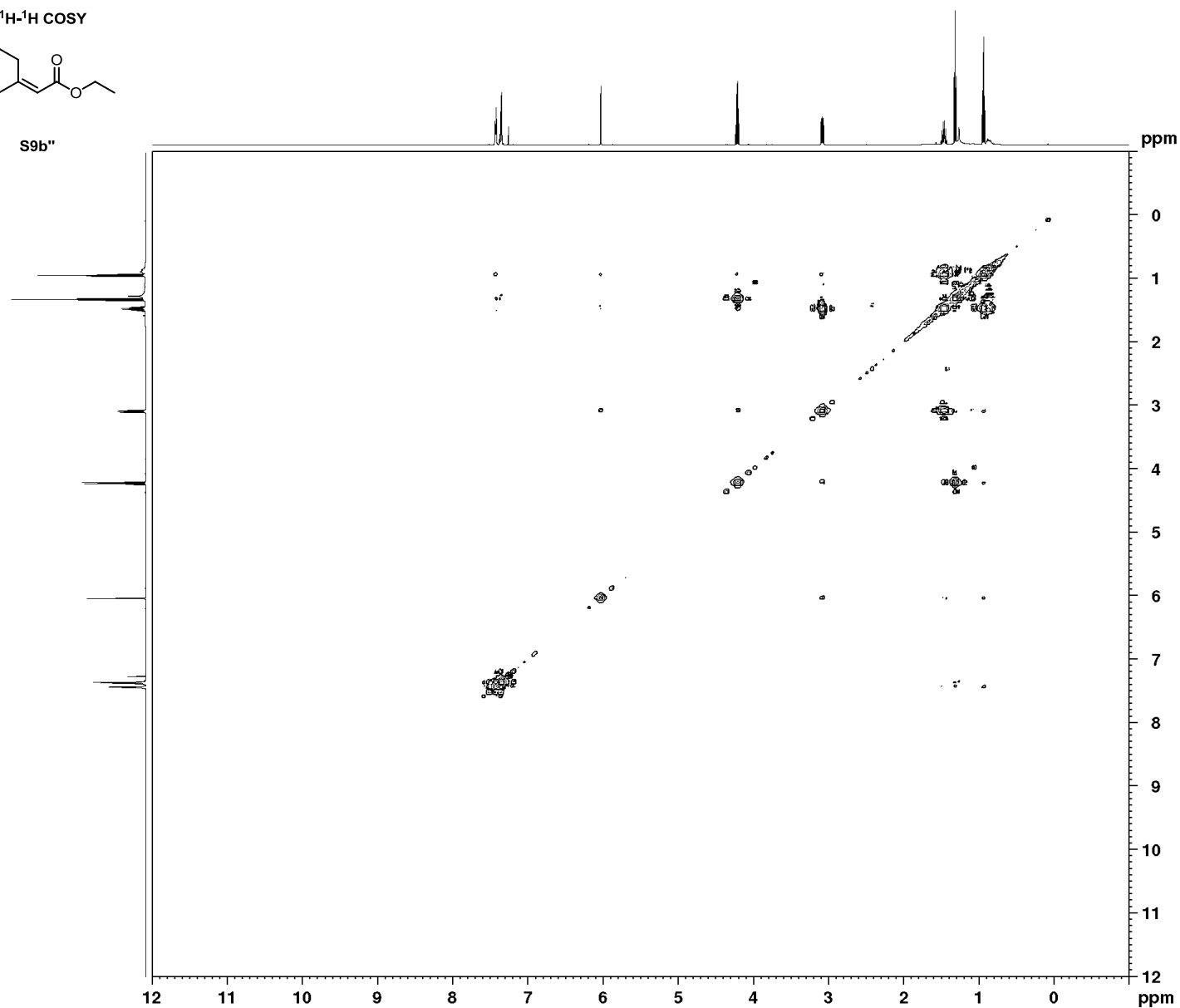
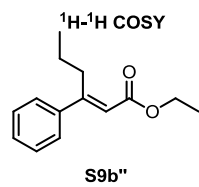


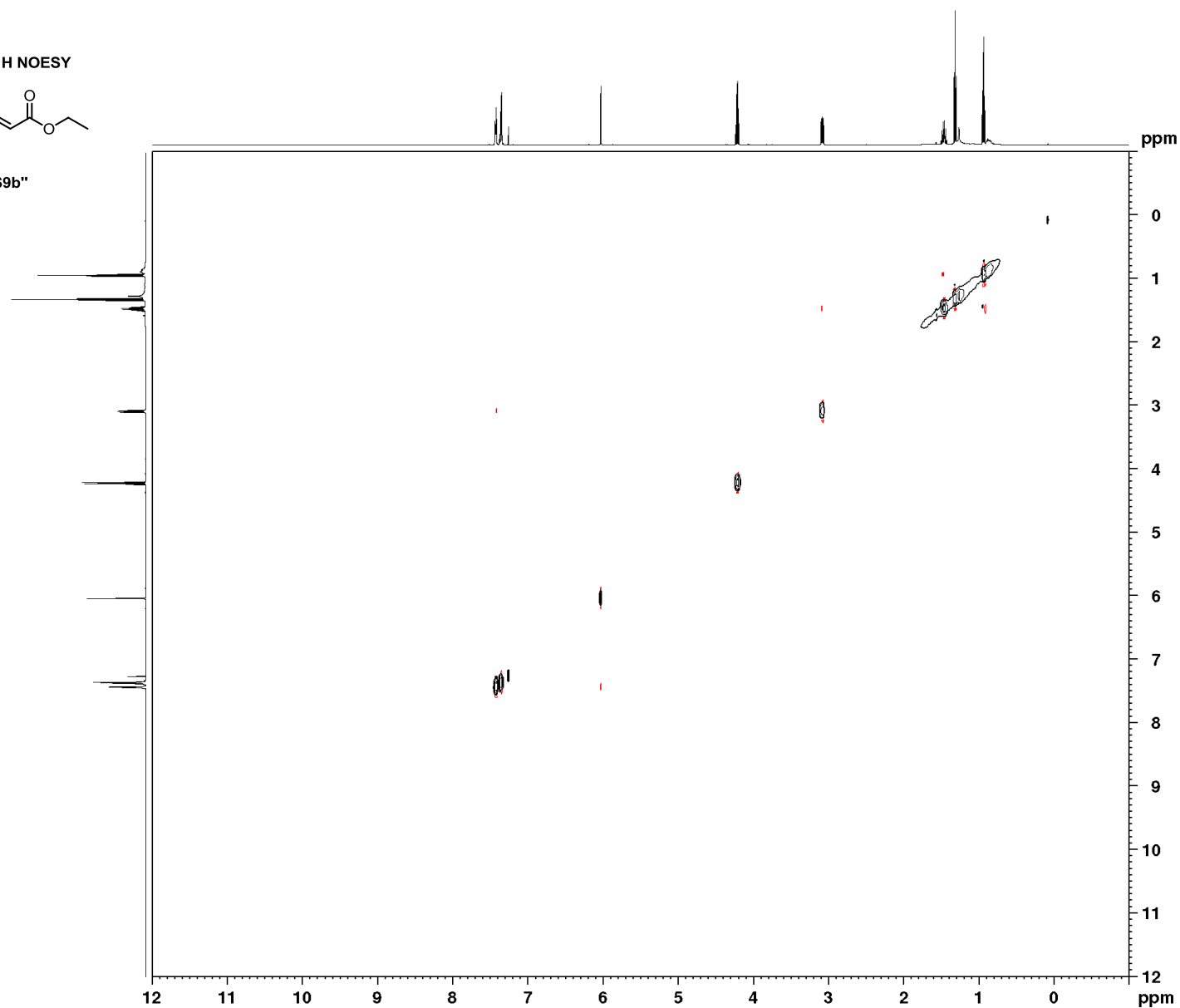
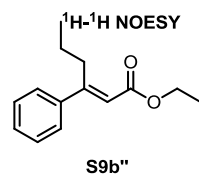


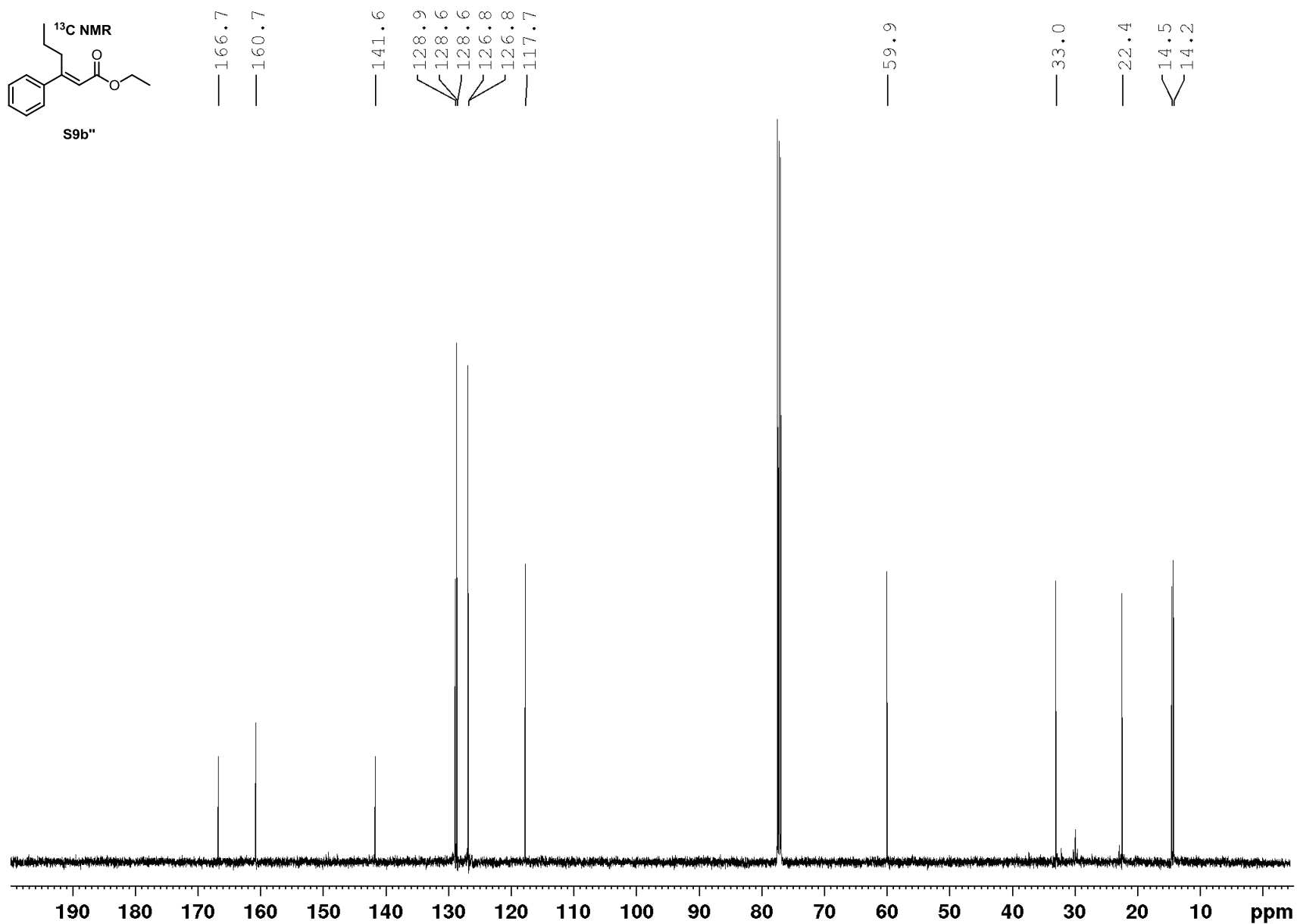


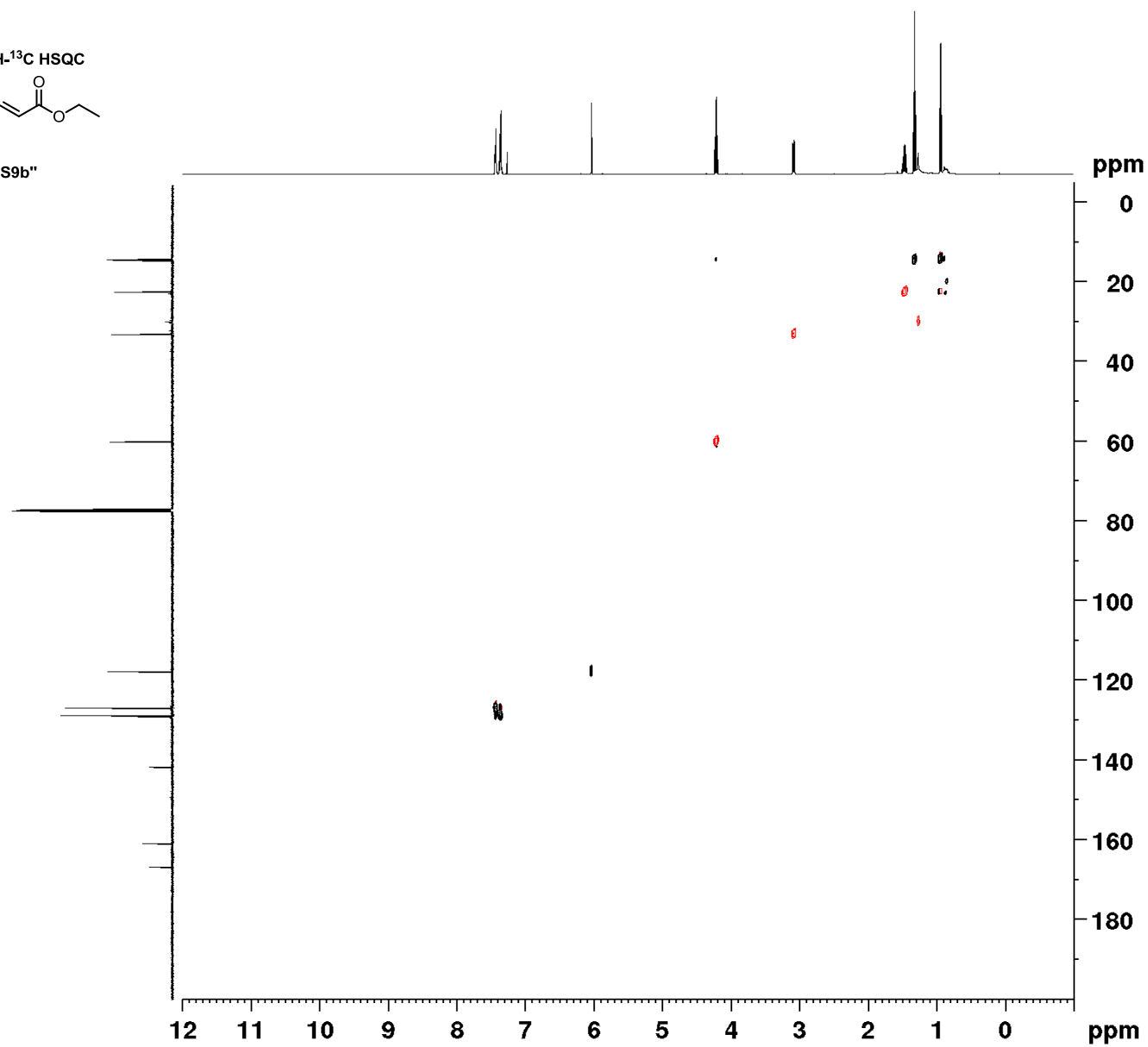
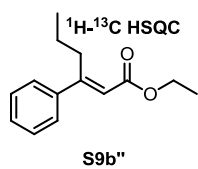


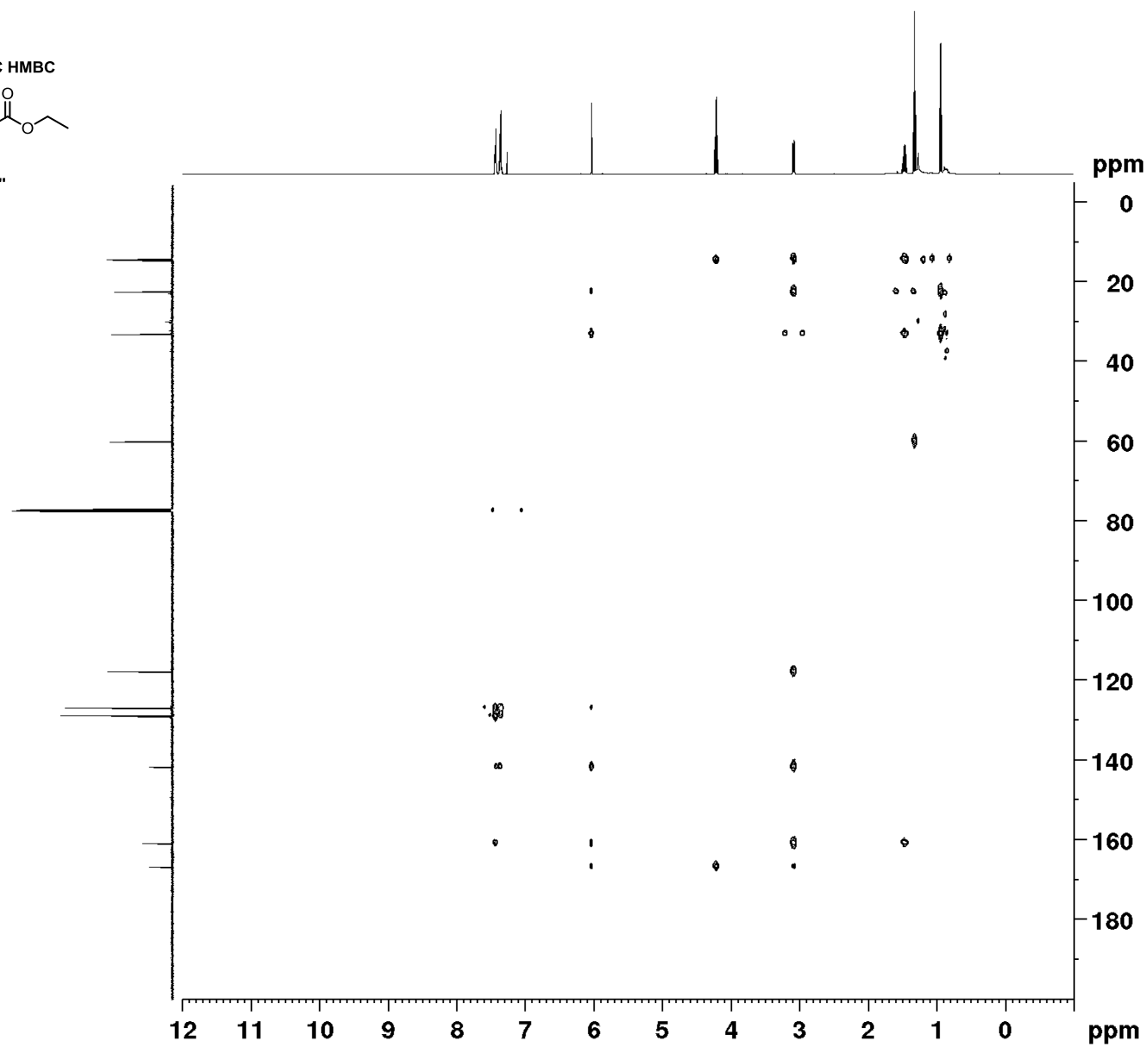
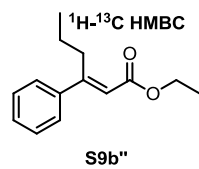


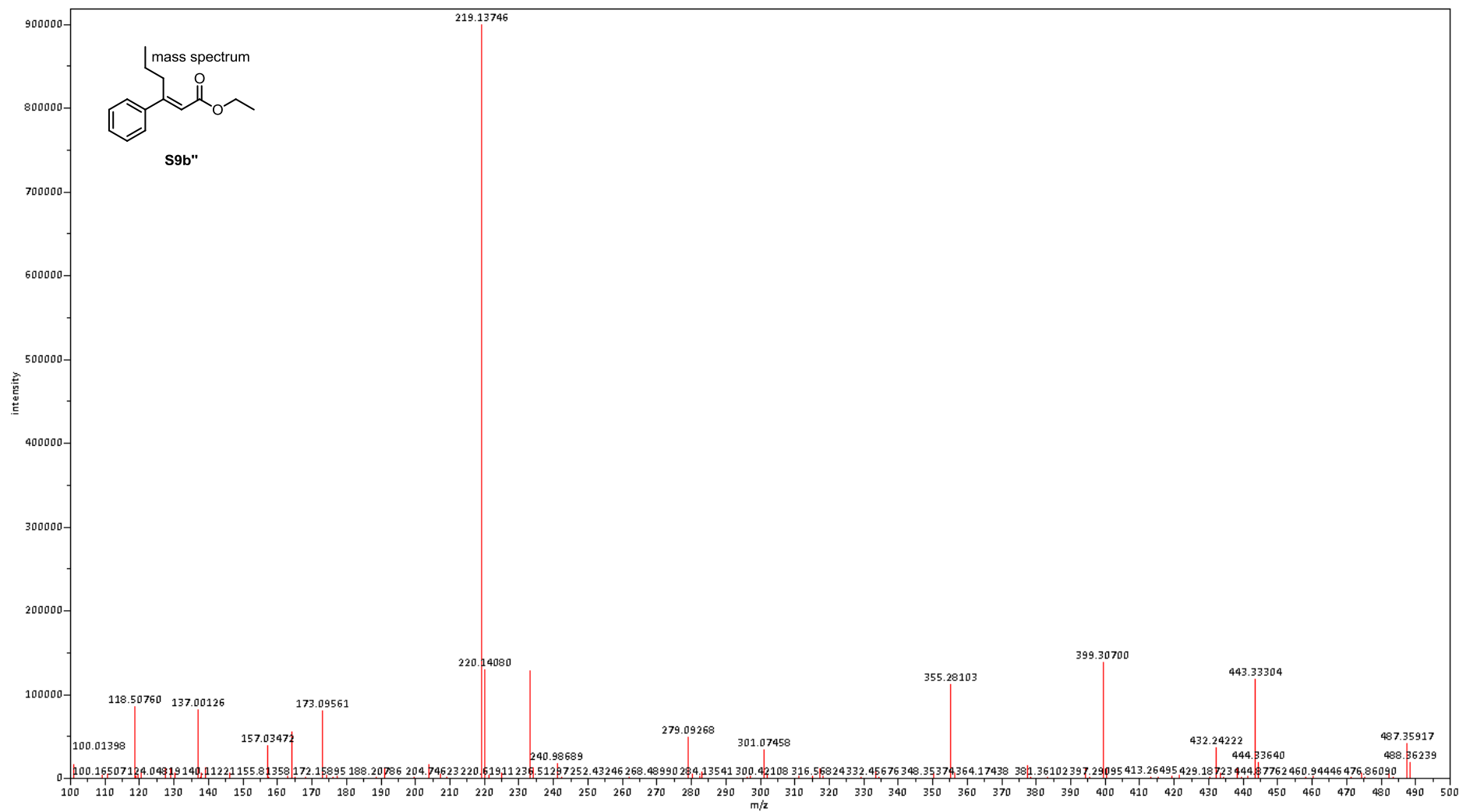


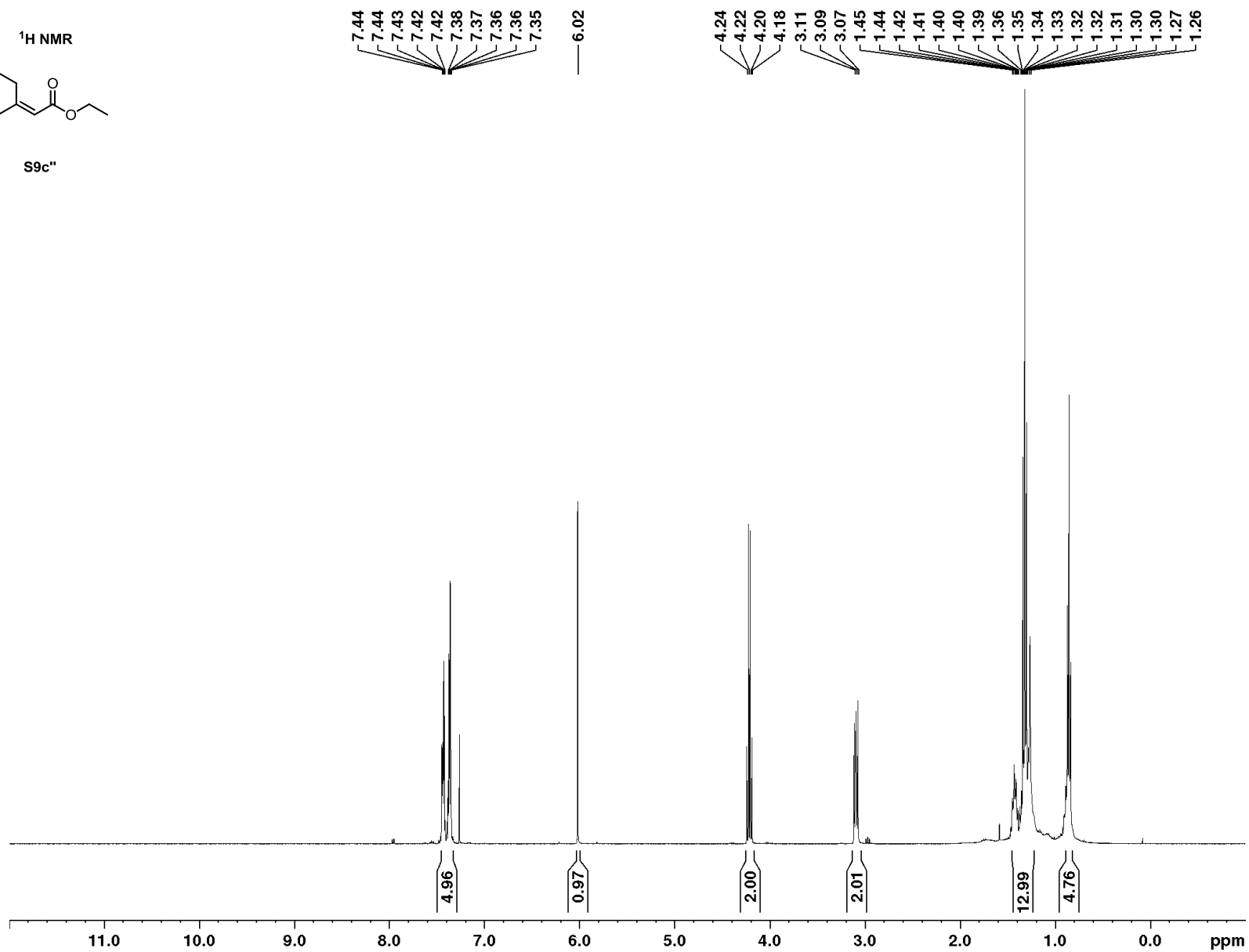
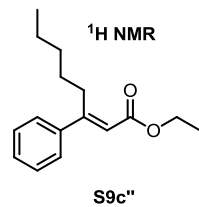


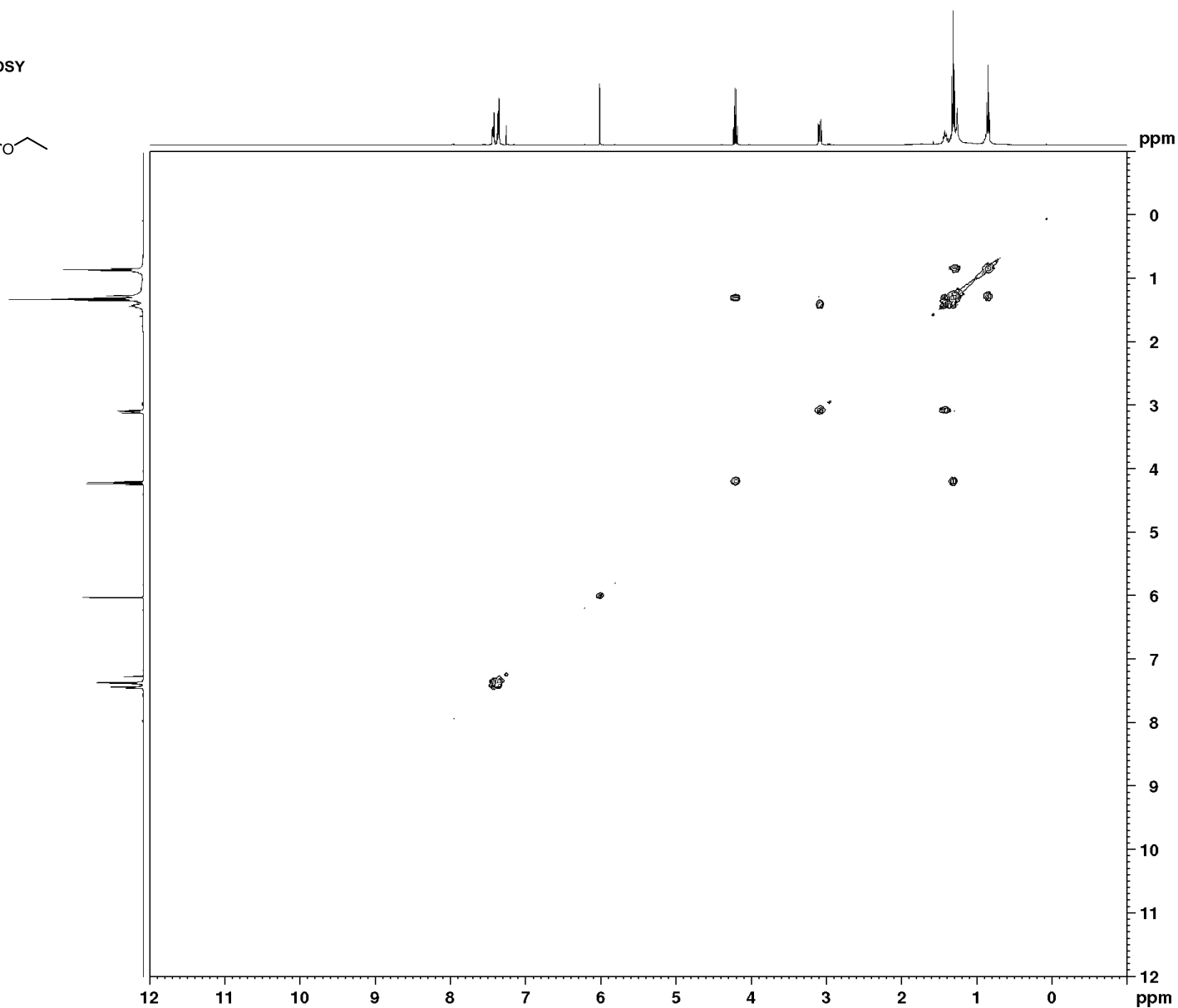
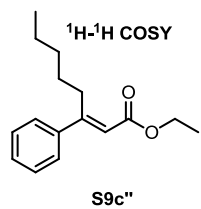




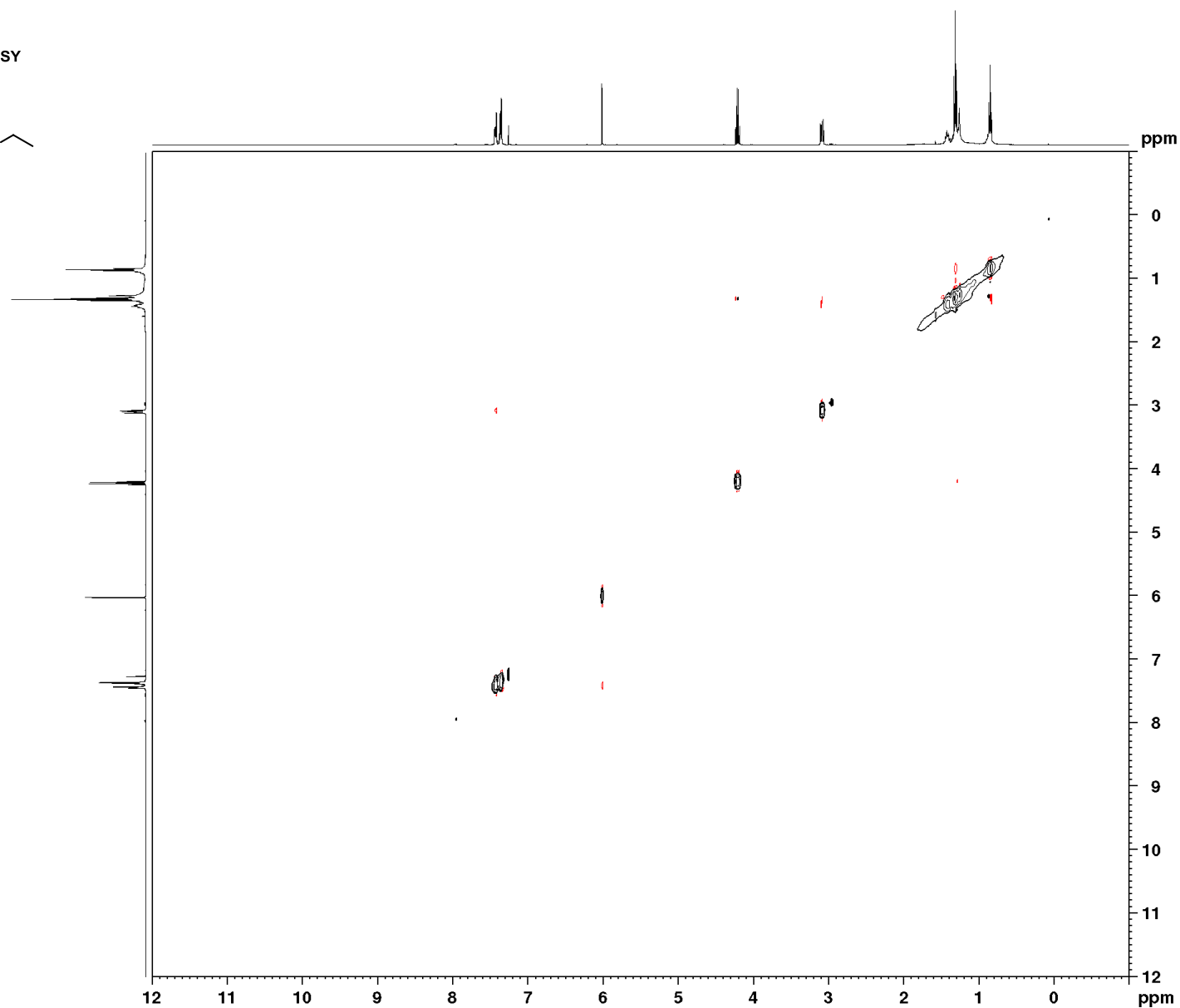
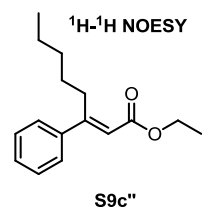


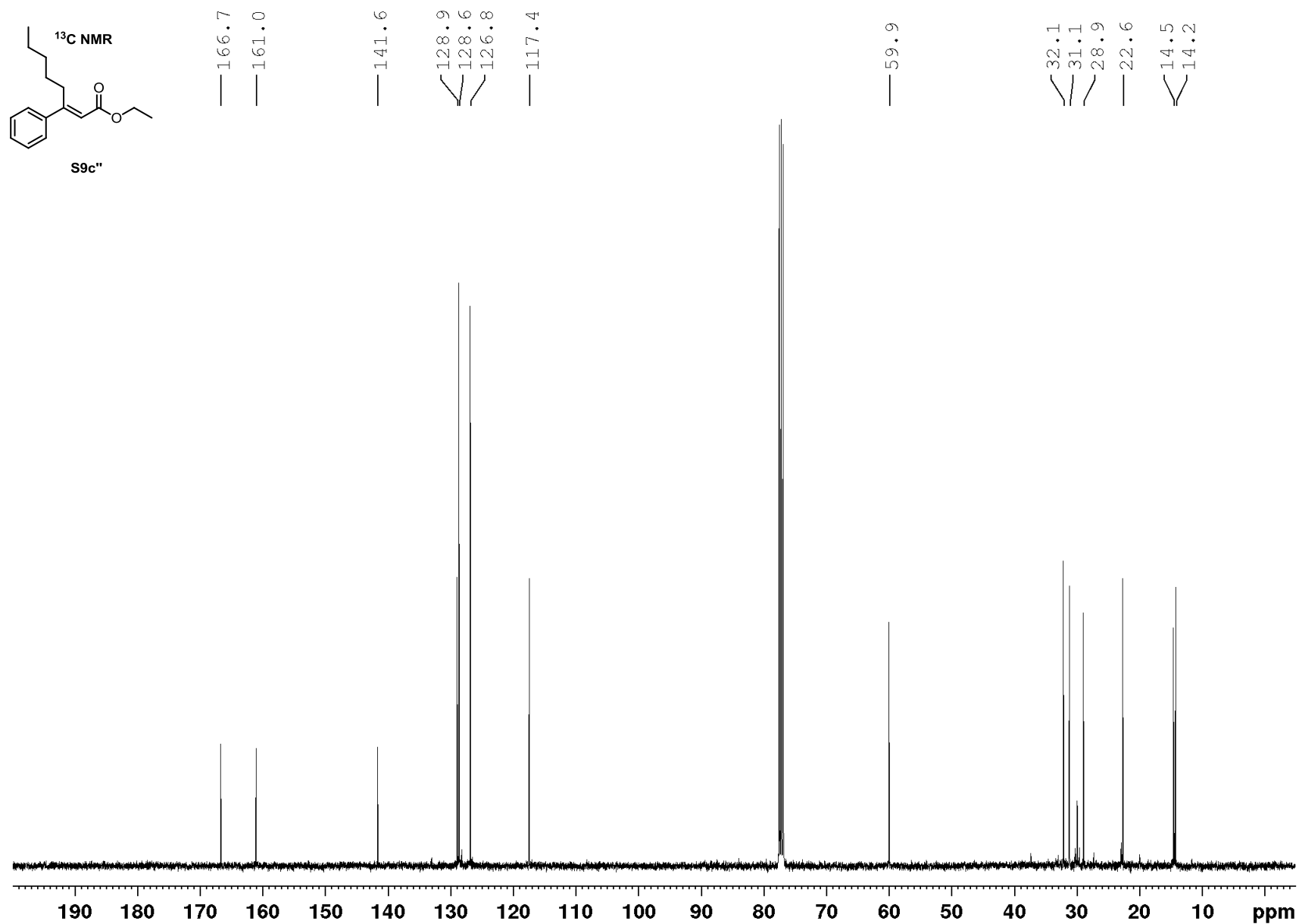


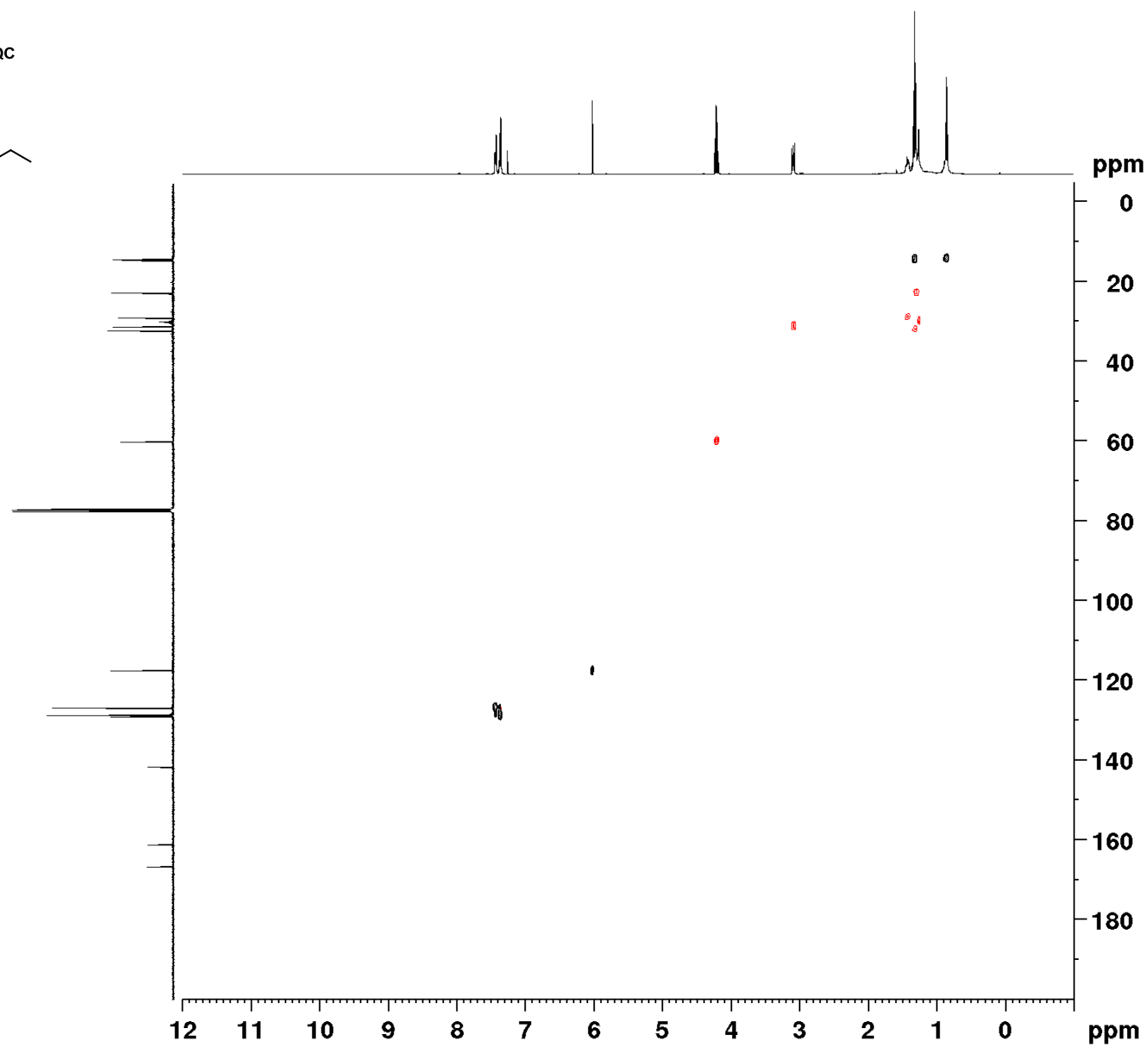
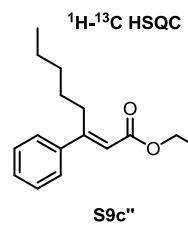


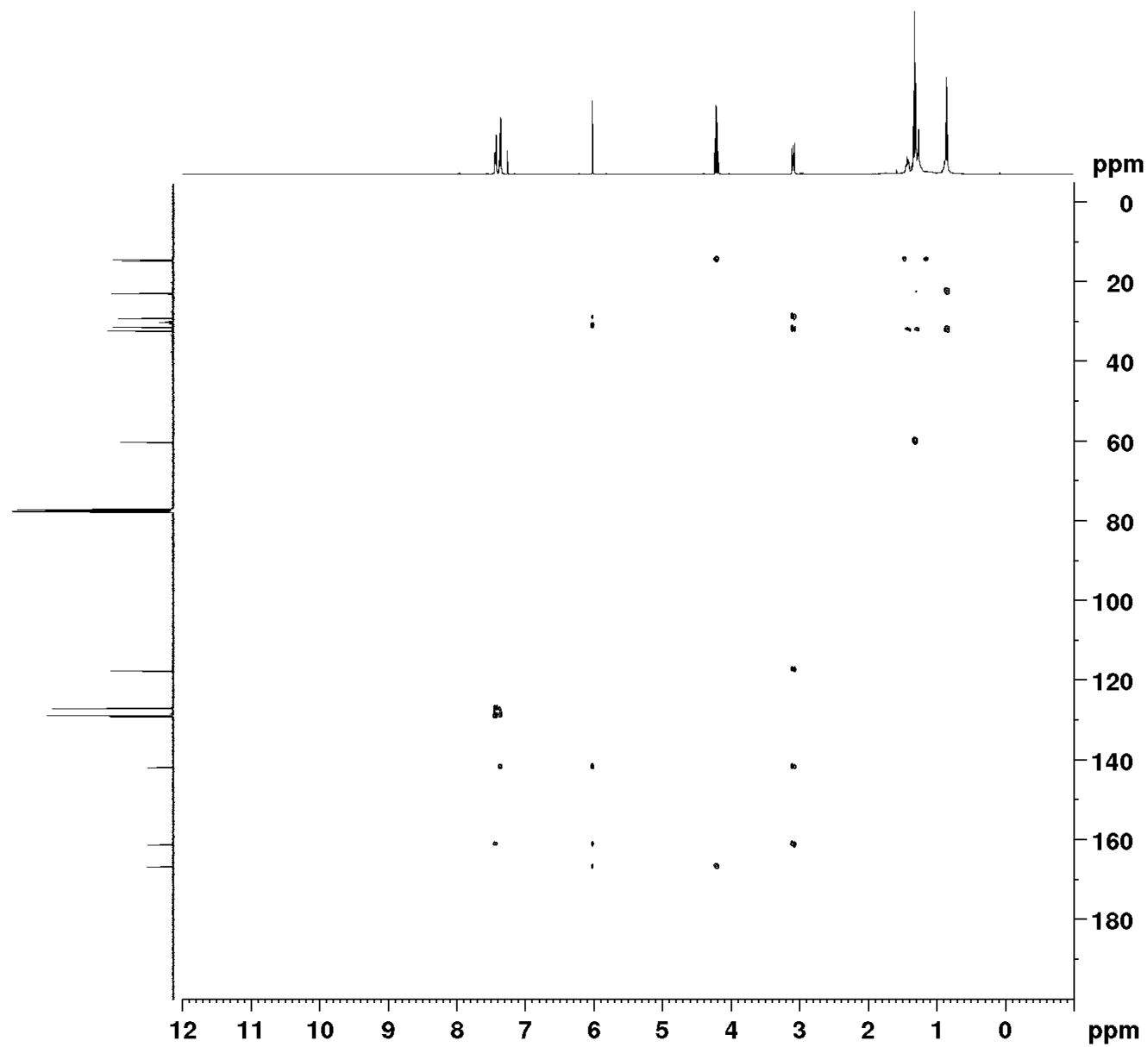
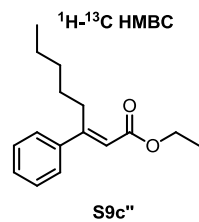


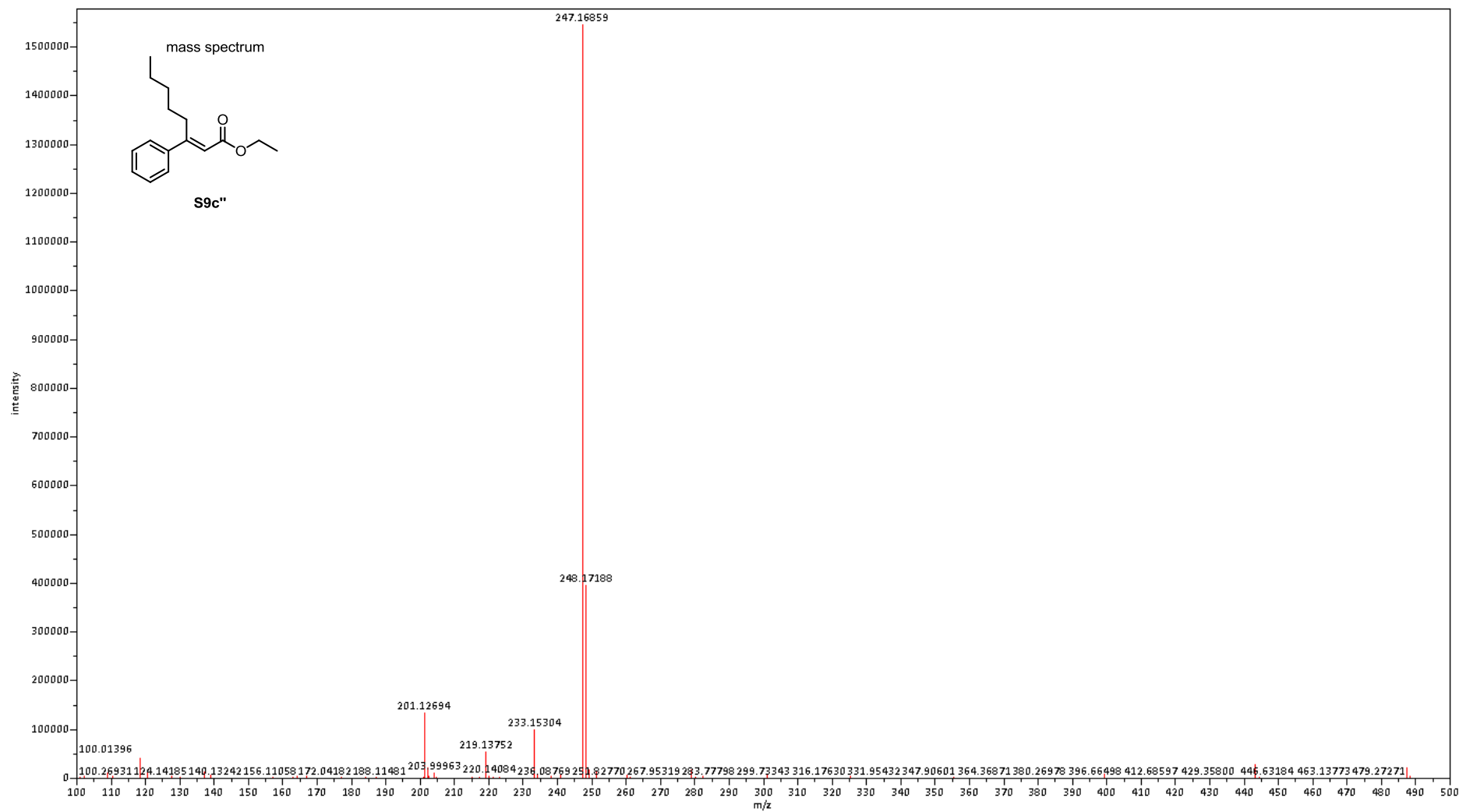
S203

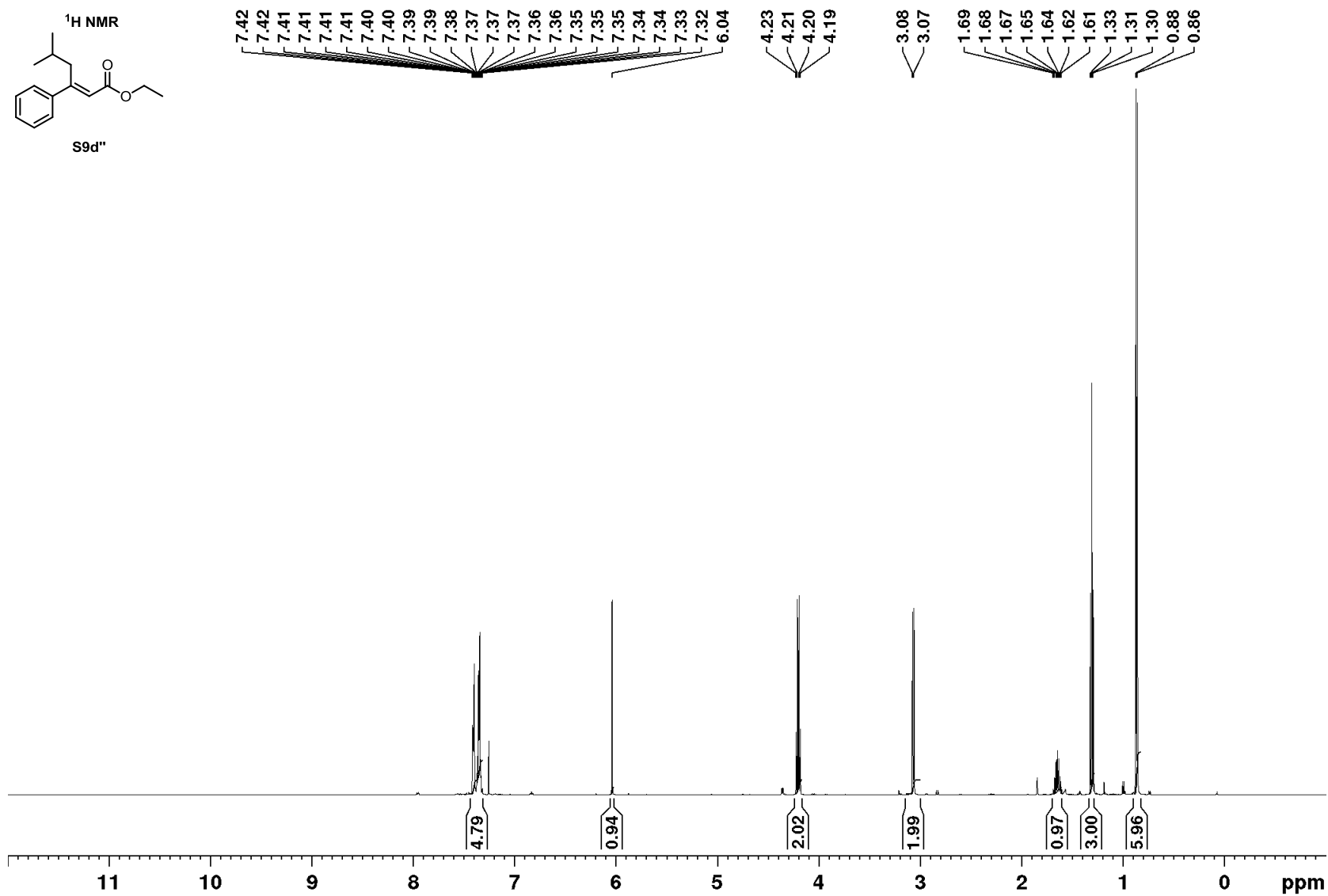
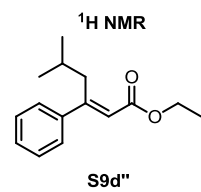


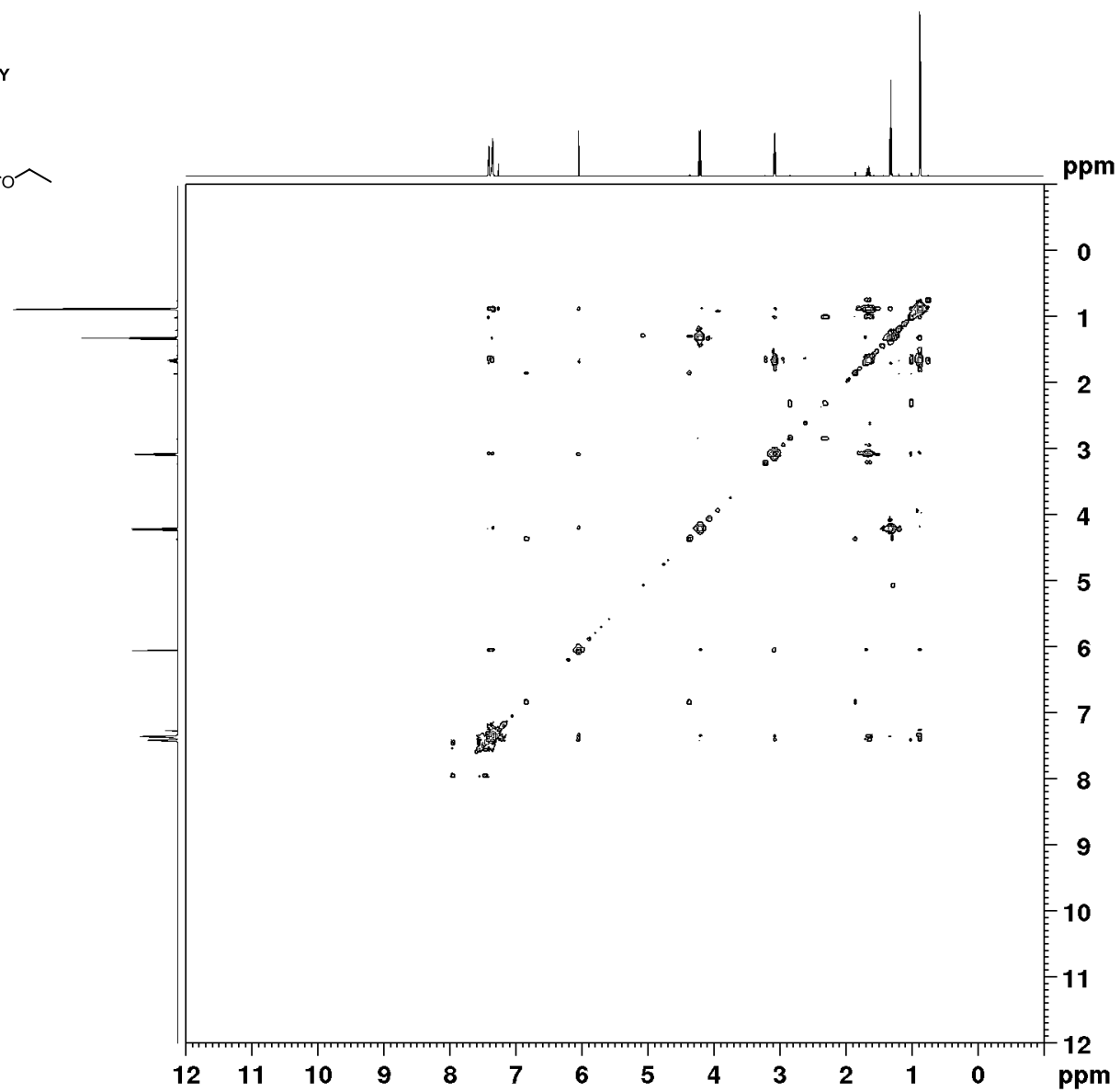
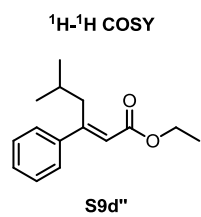




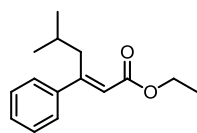




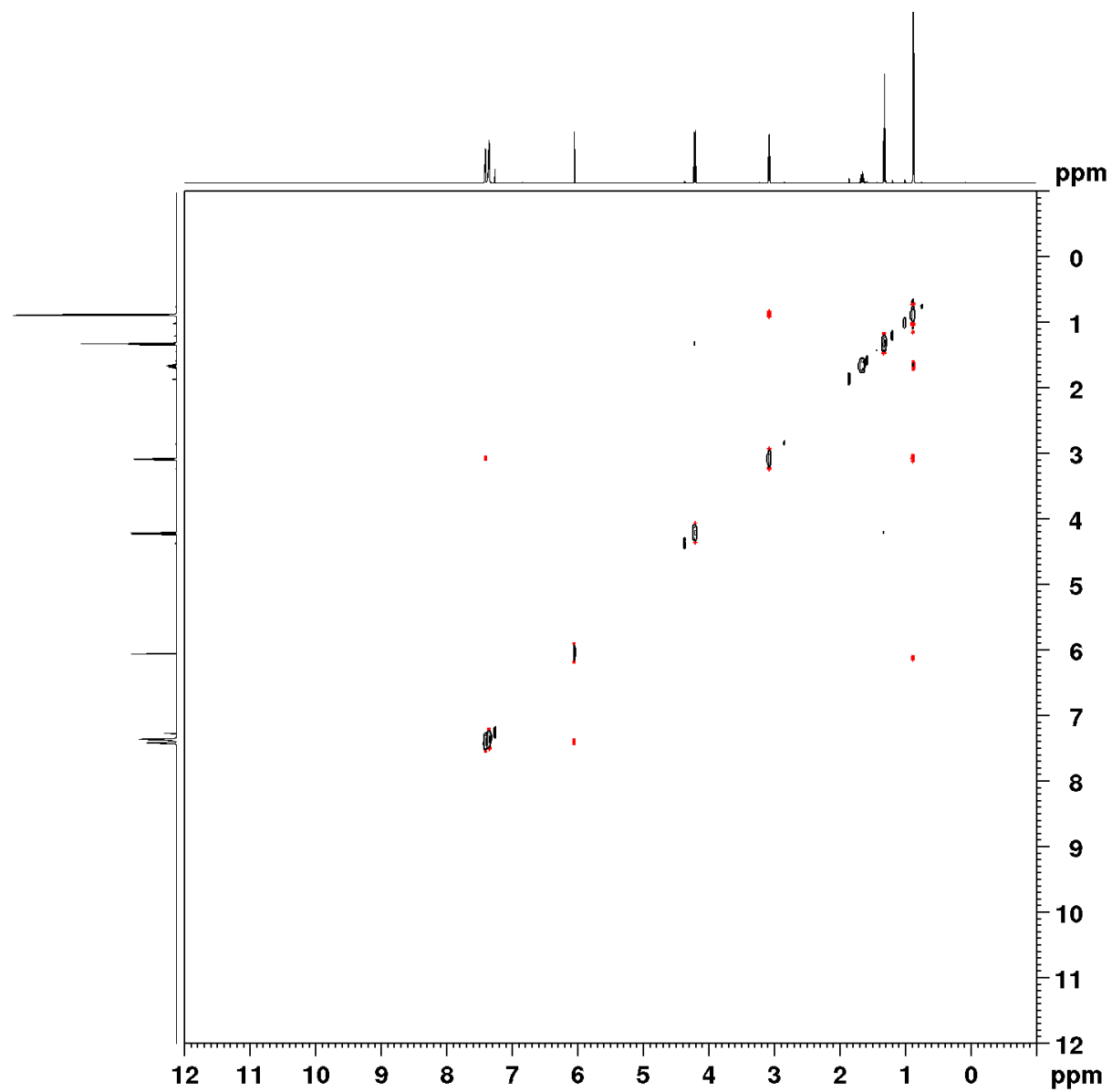


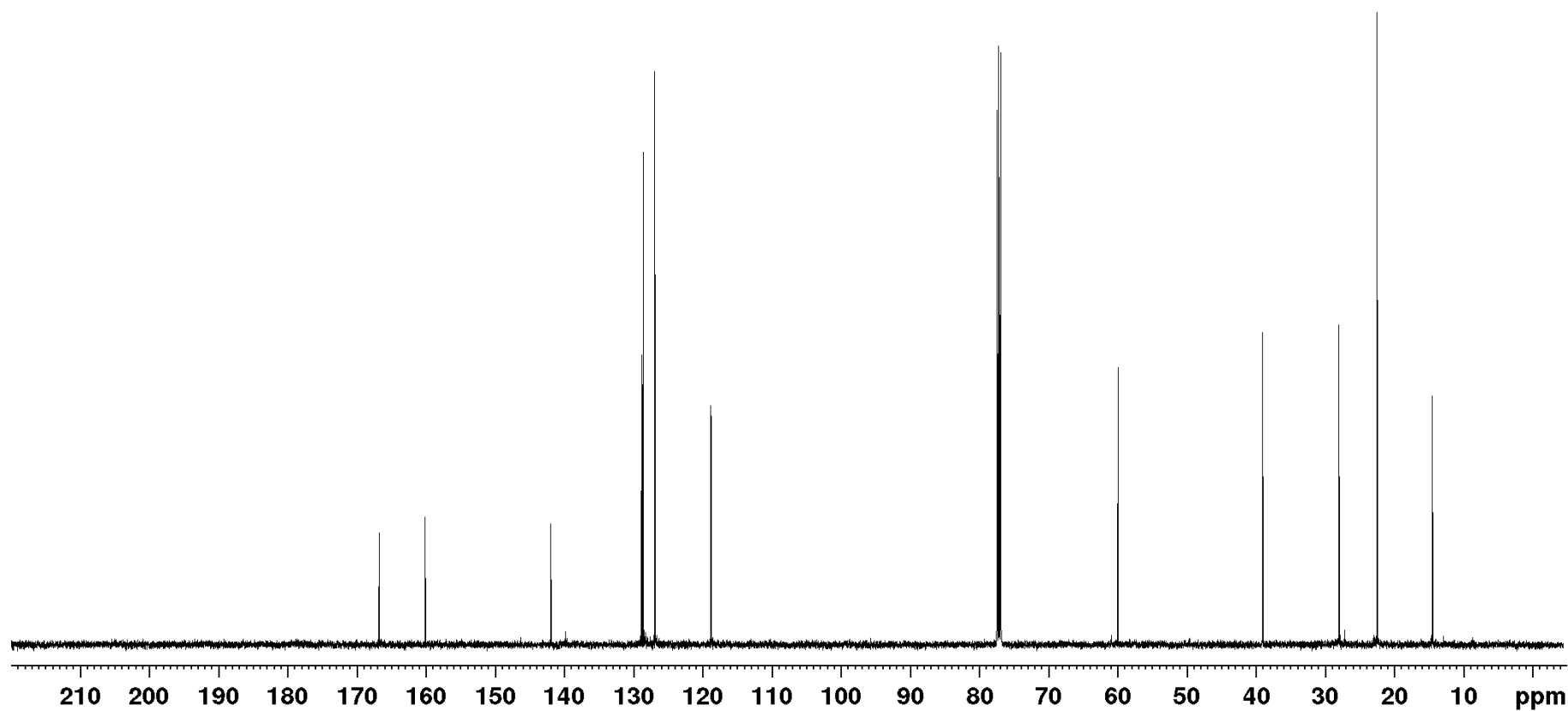
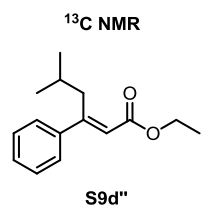


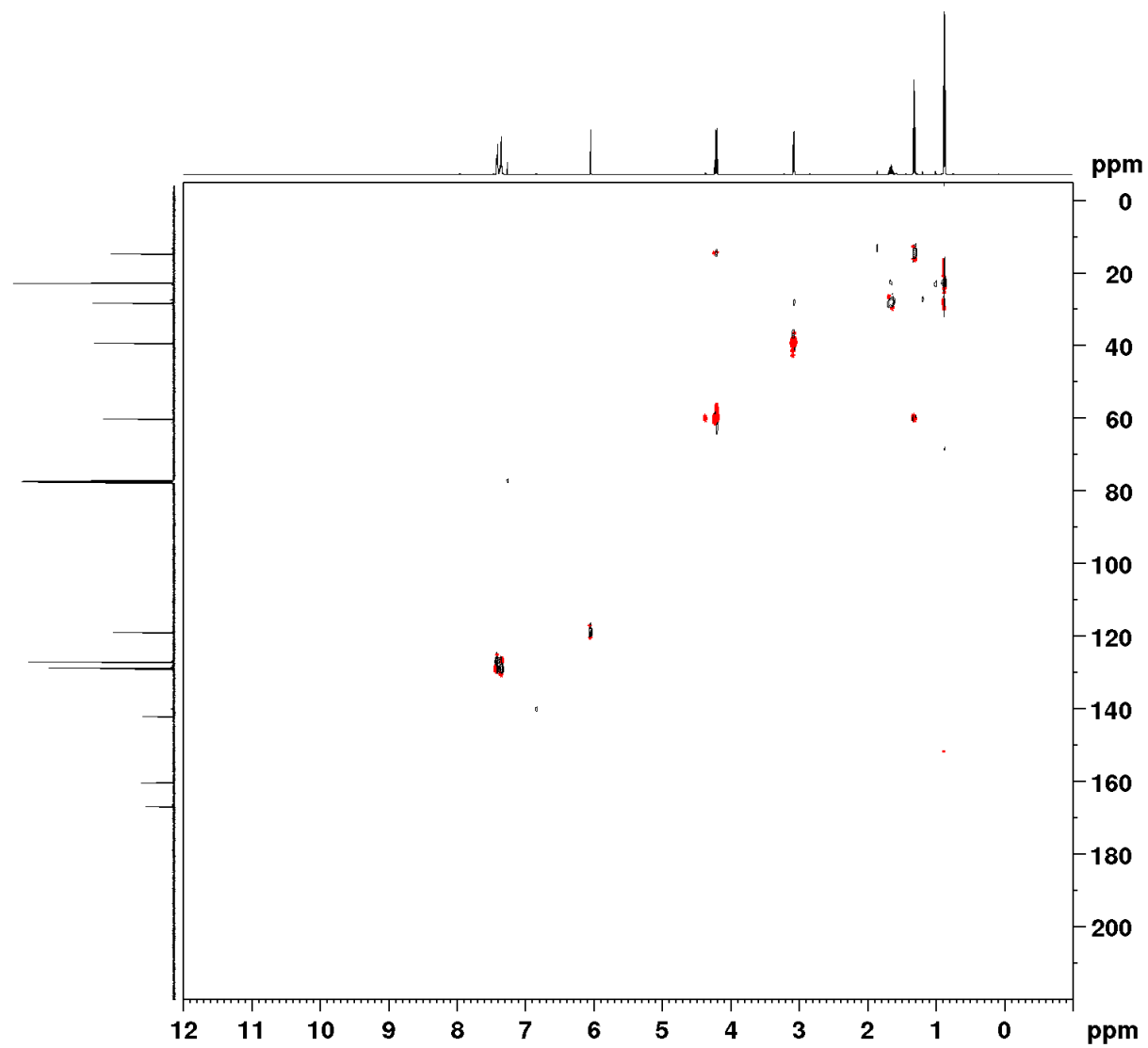
^1H - ^1H NOESY

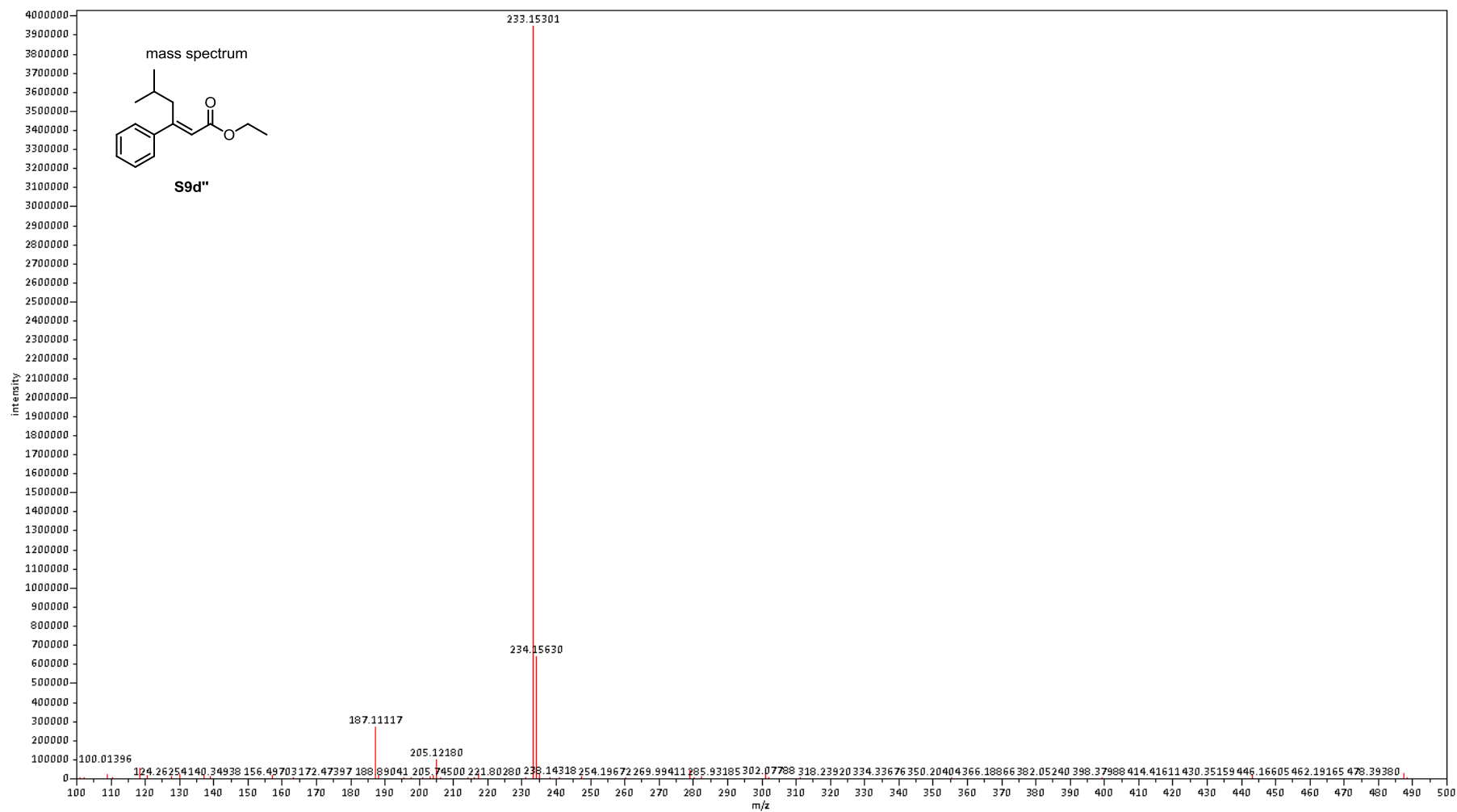


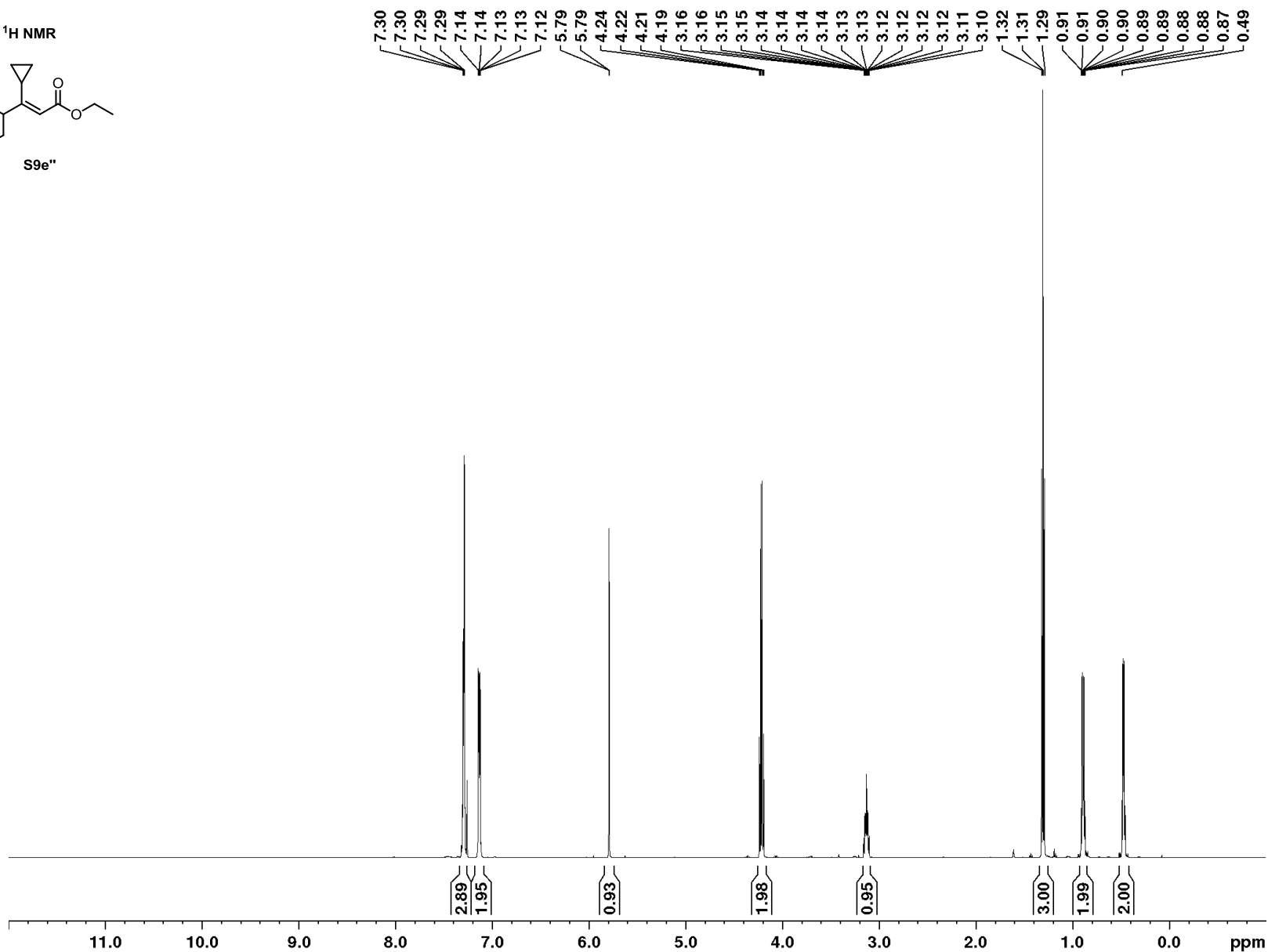
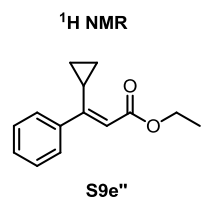
S9d''

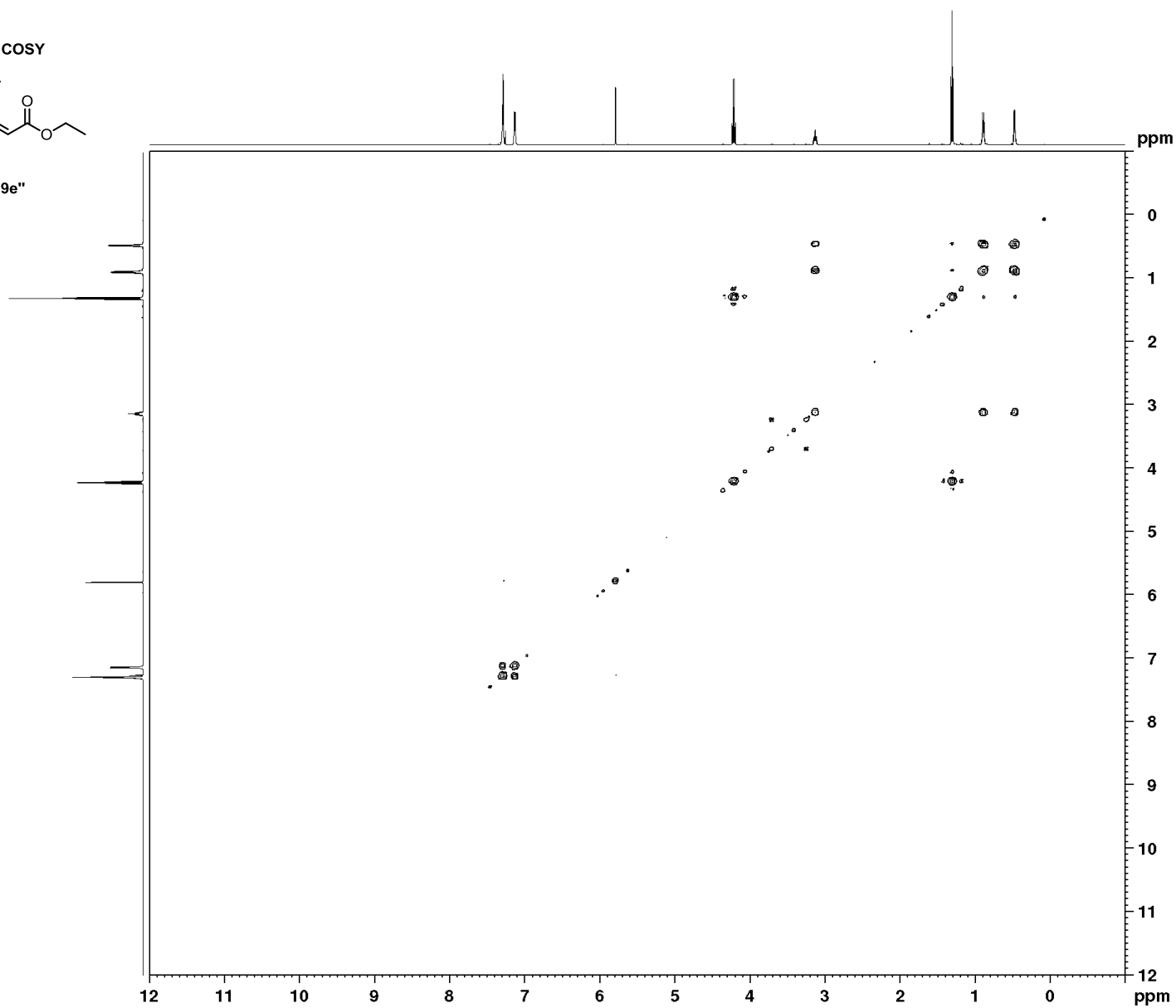
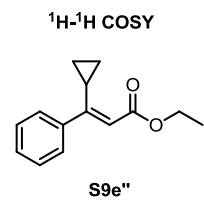


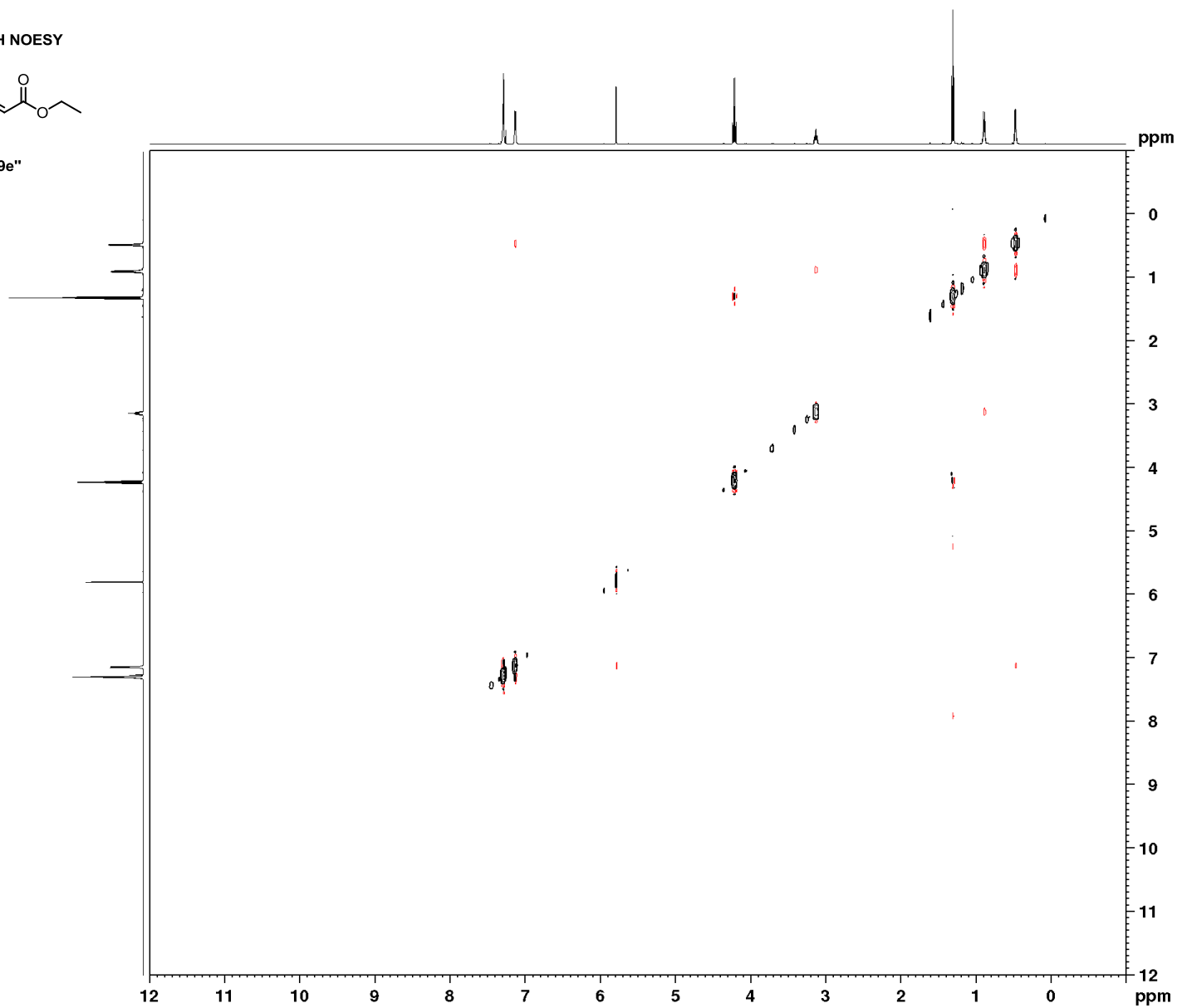
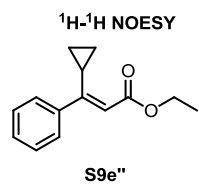


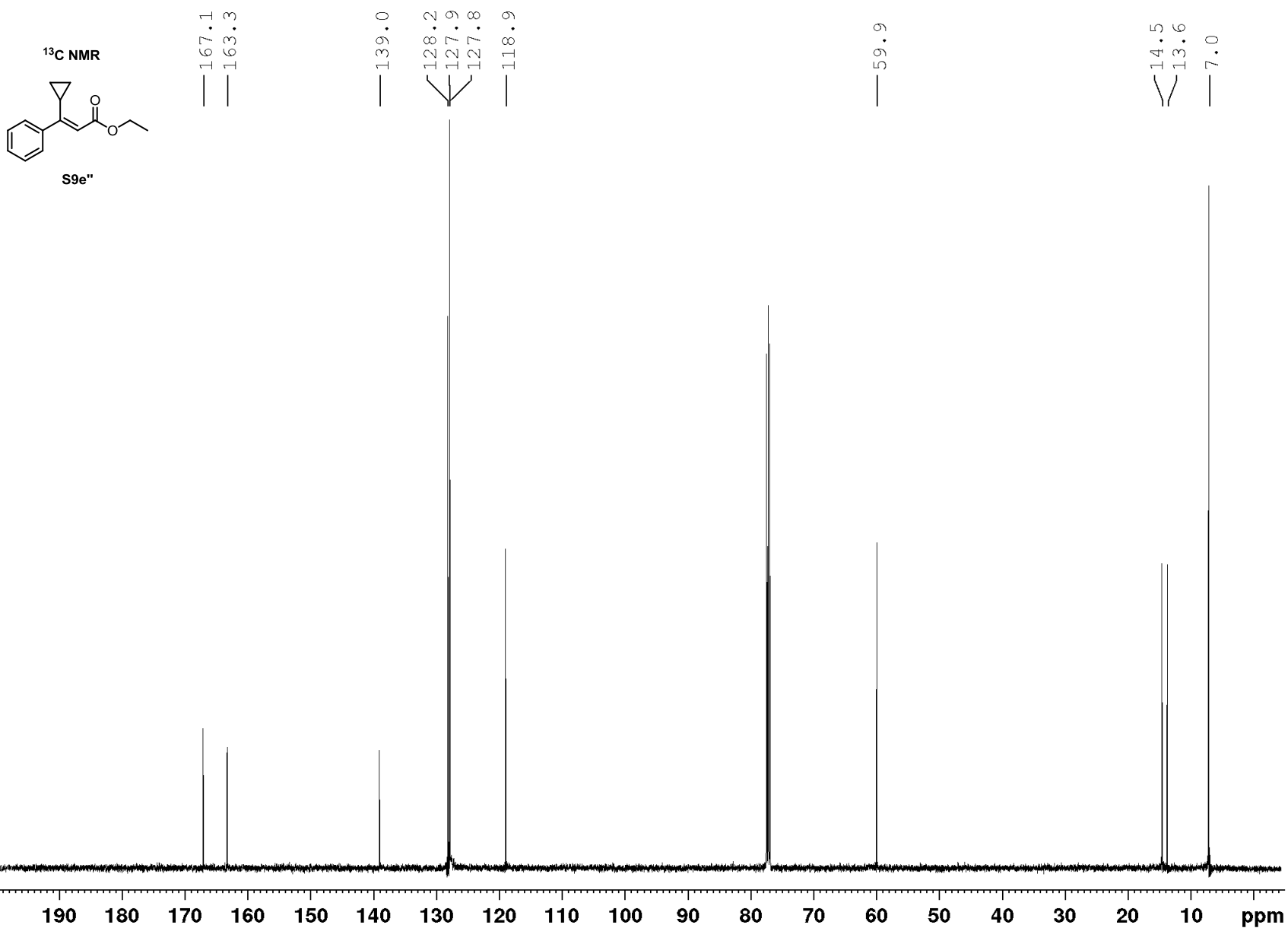


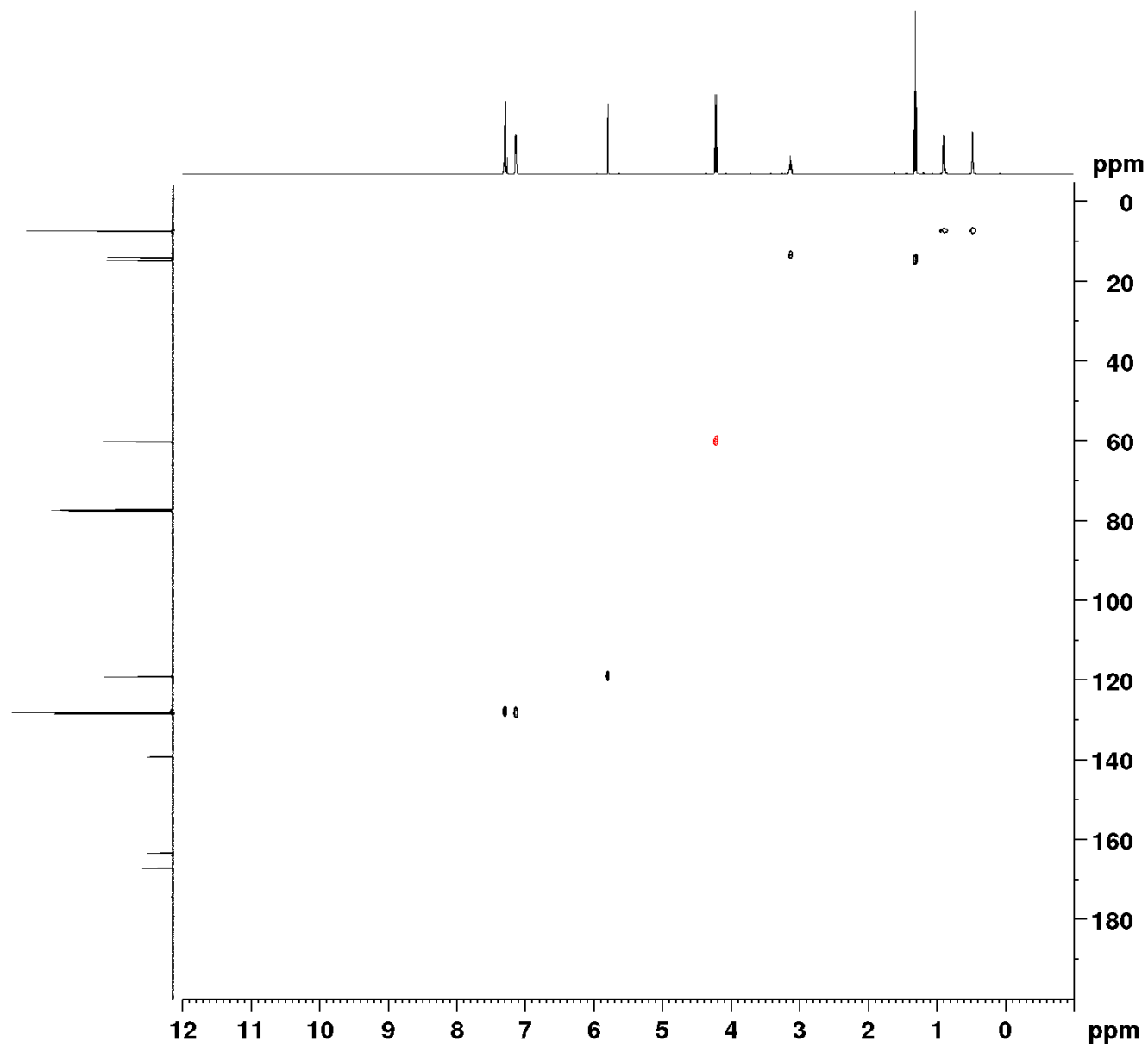
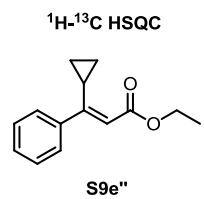




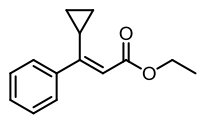




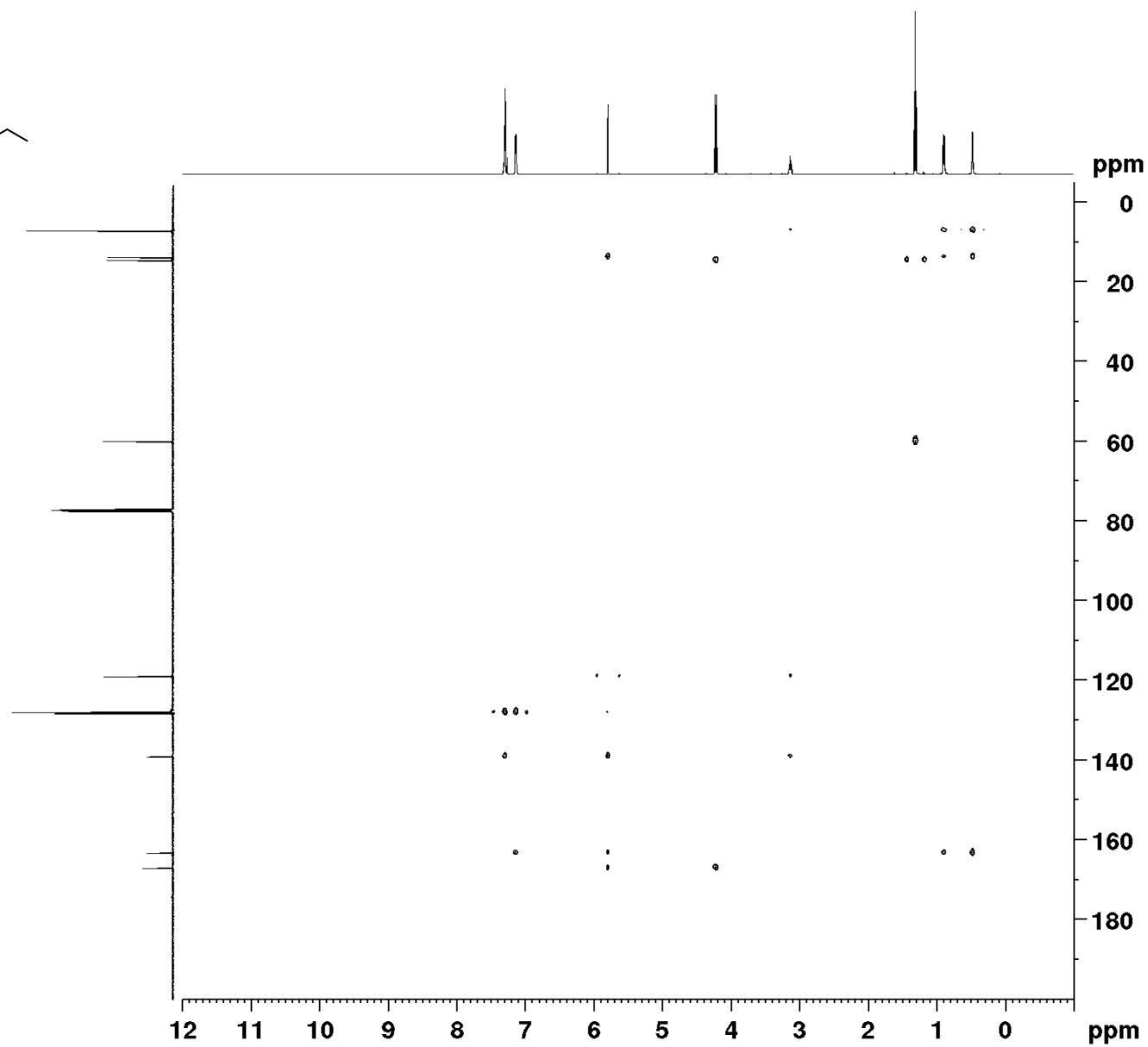


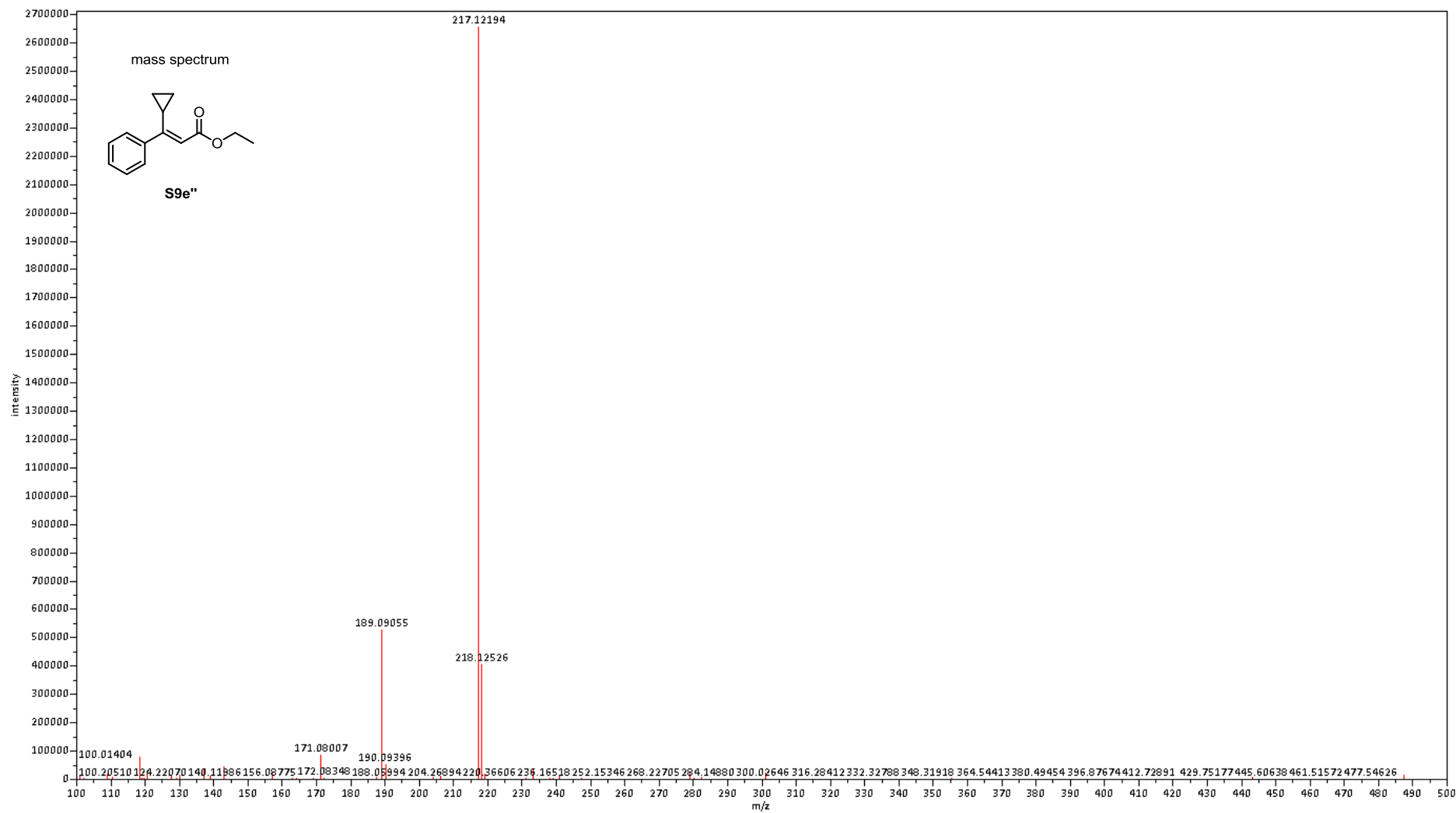


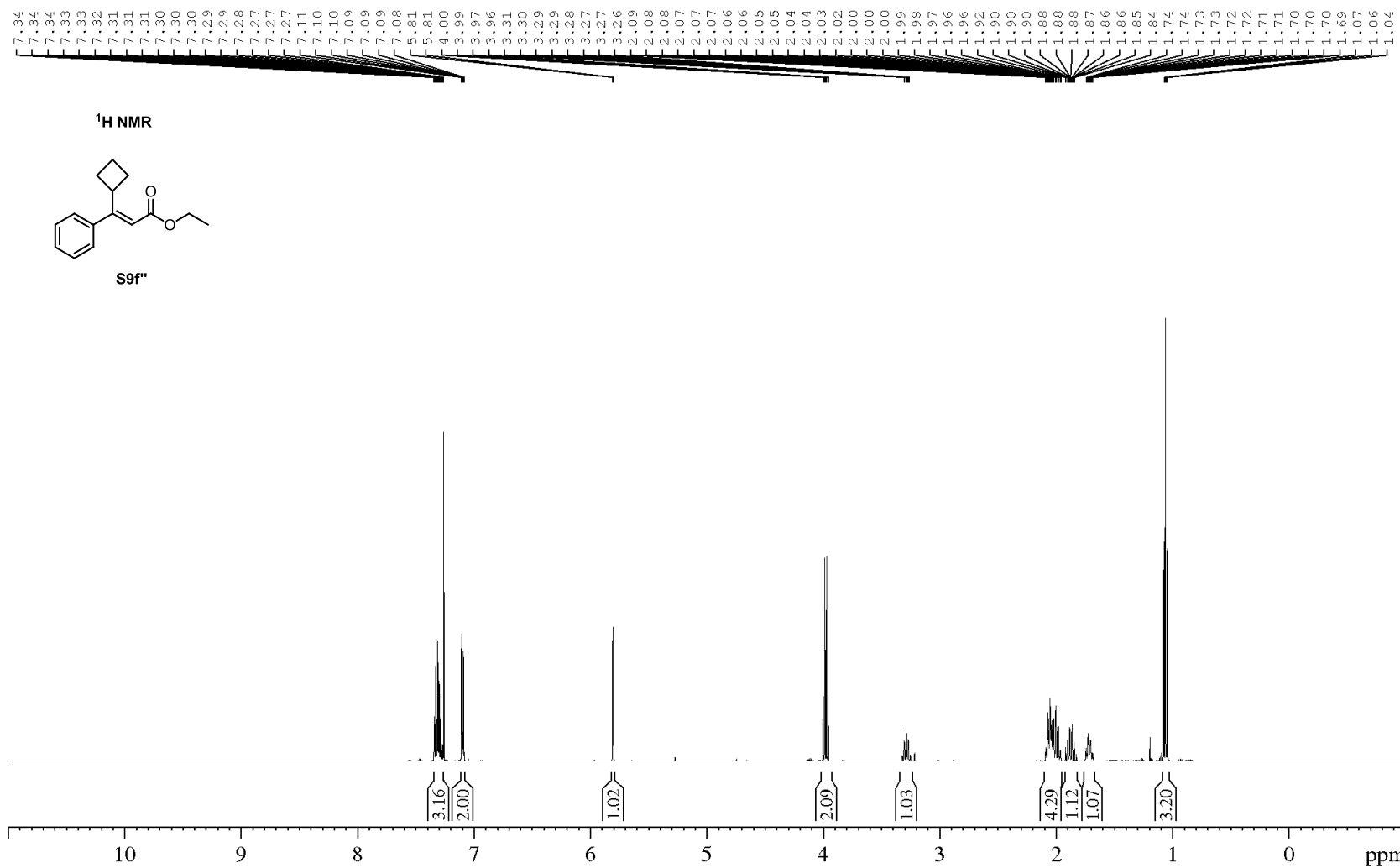
¹H-¹³C HMBC

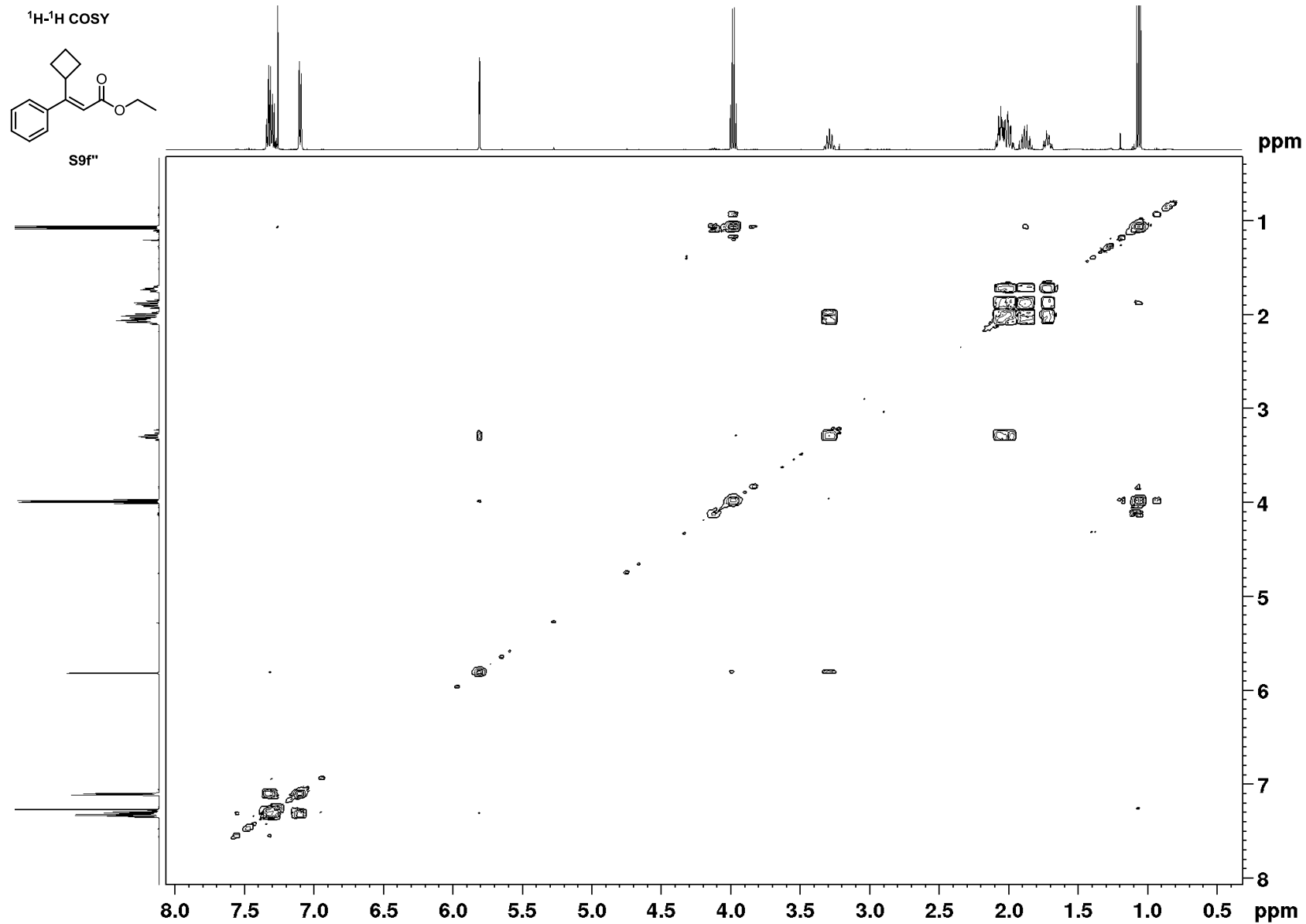


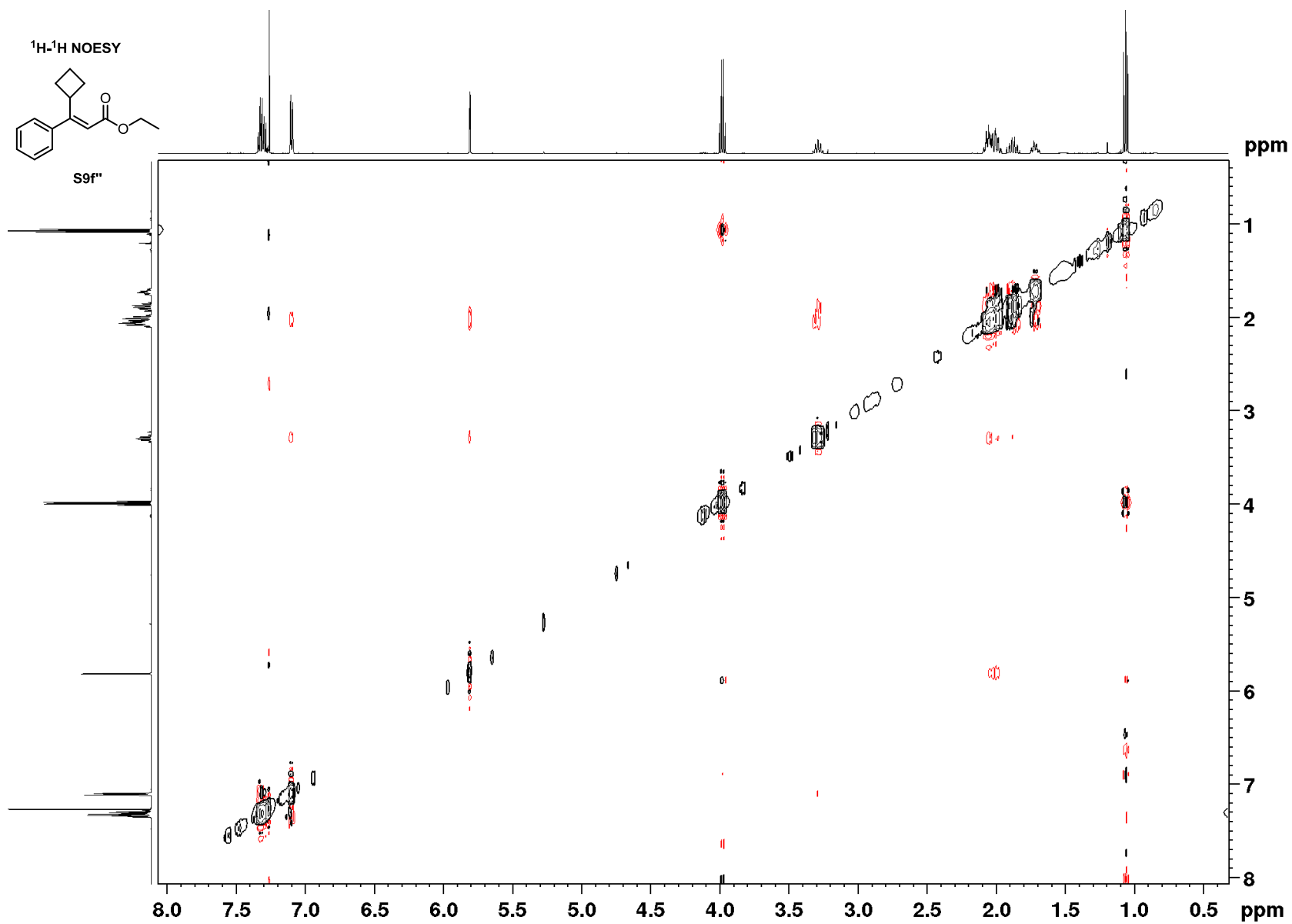
S9e''

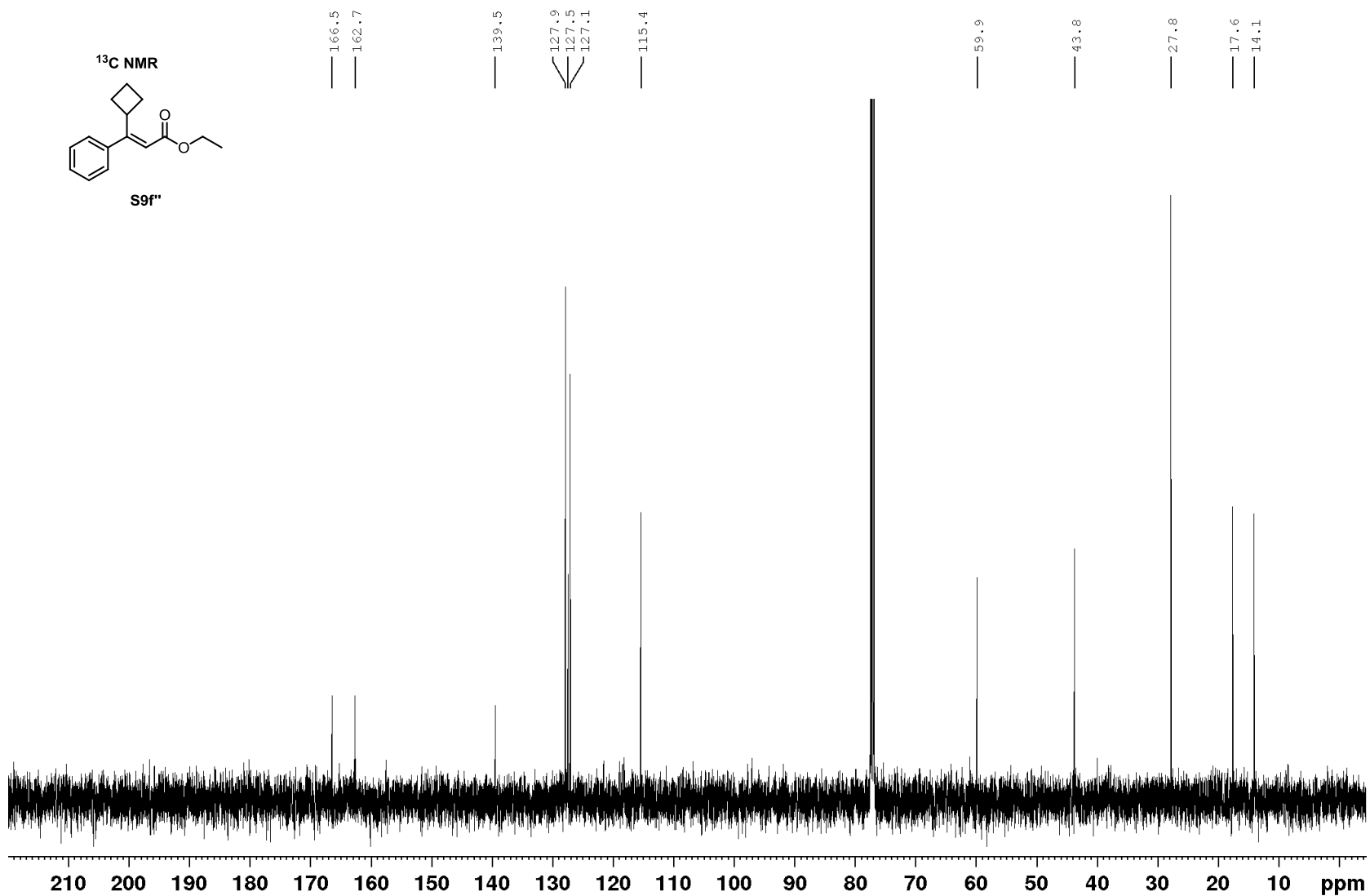




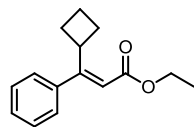




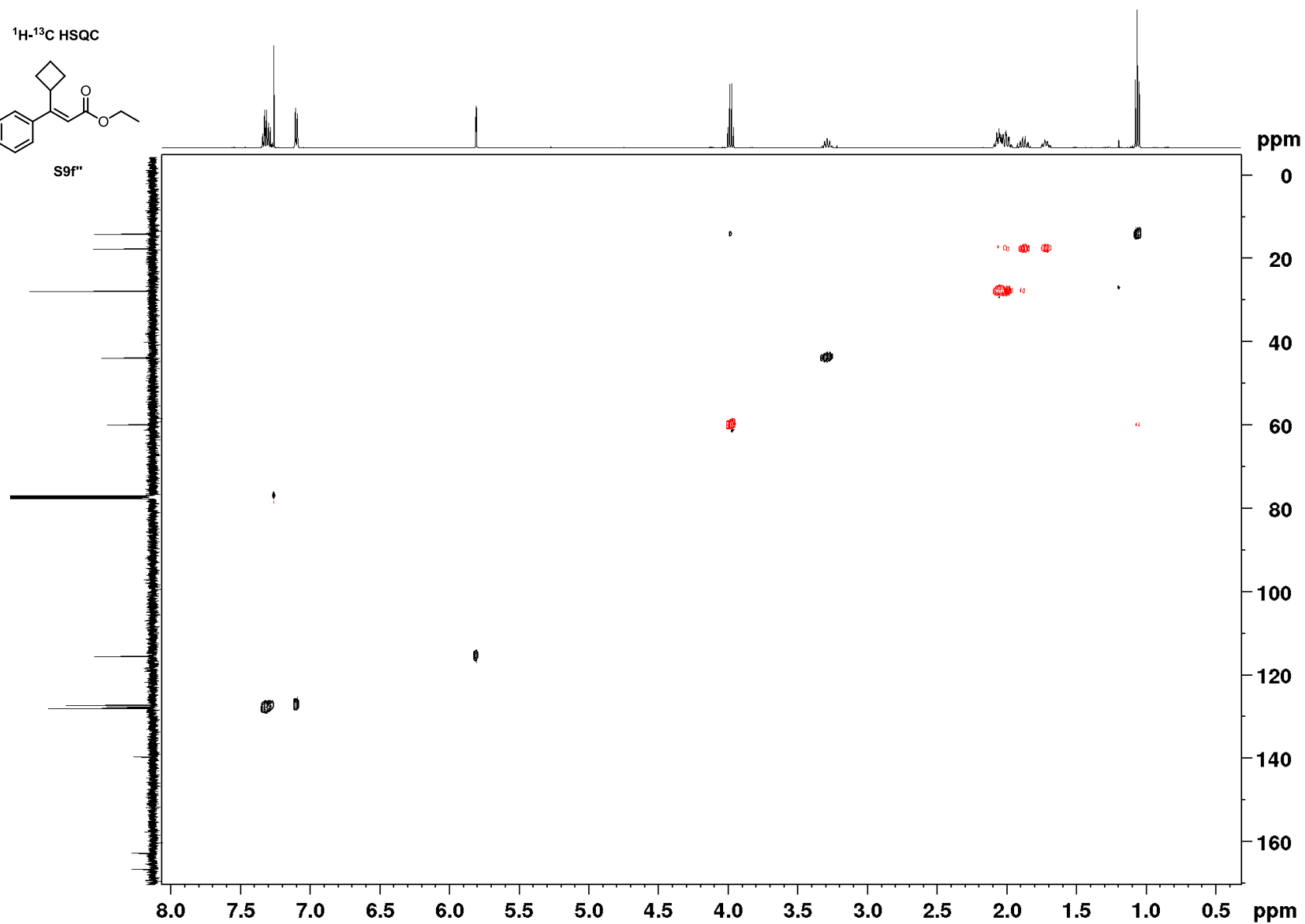


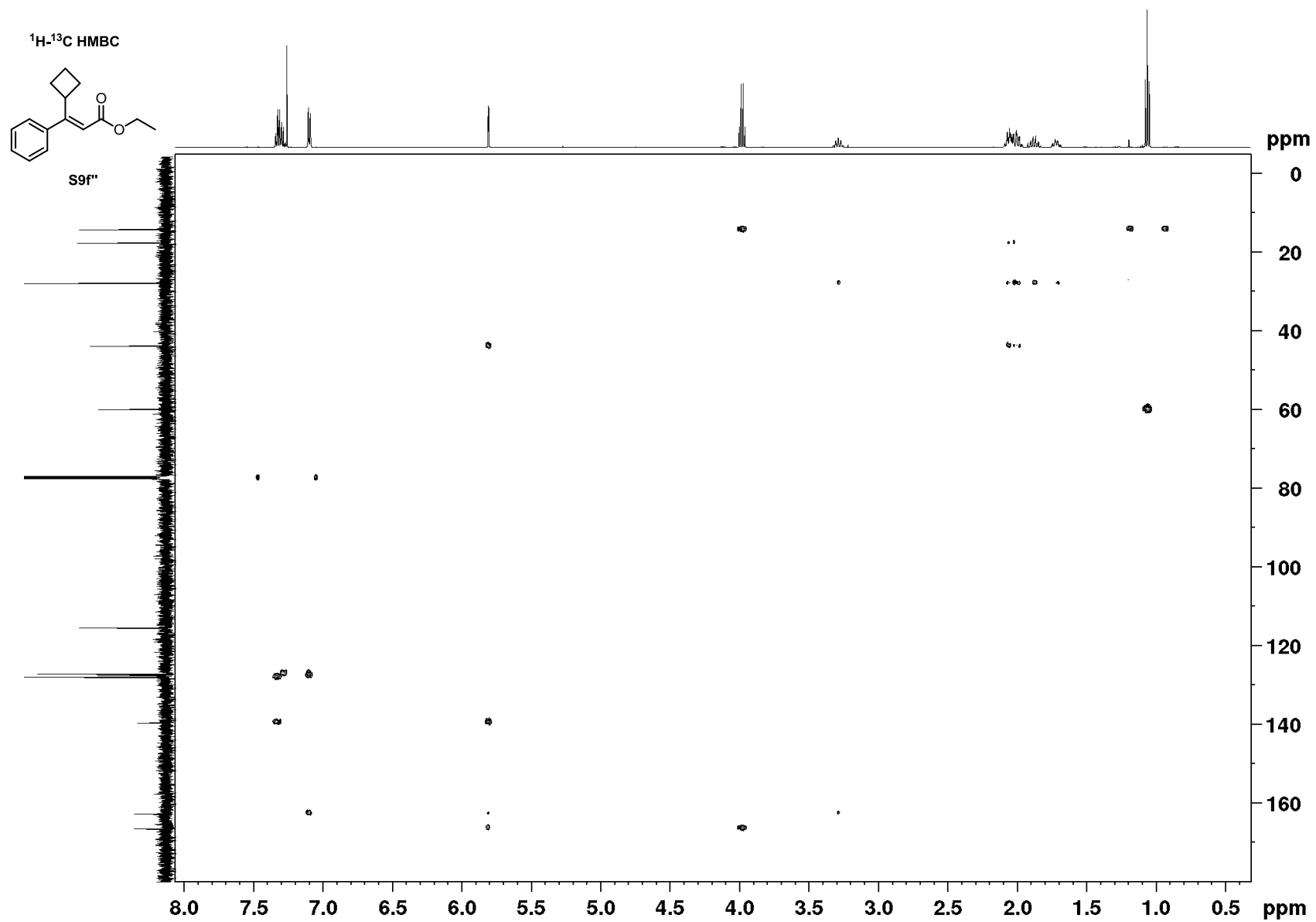


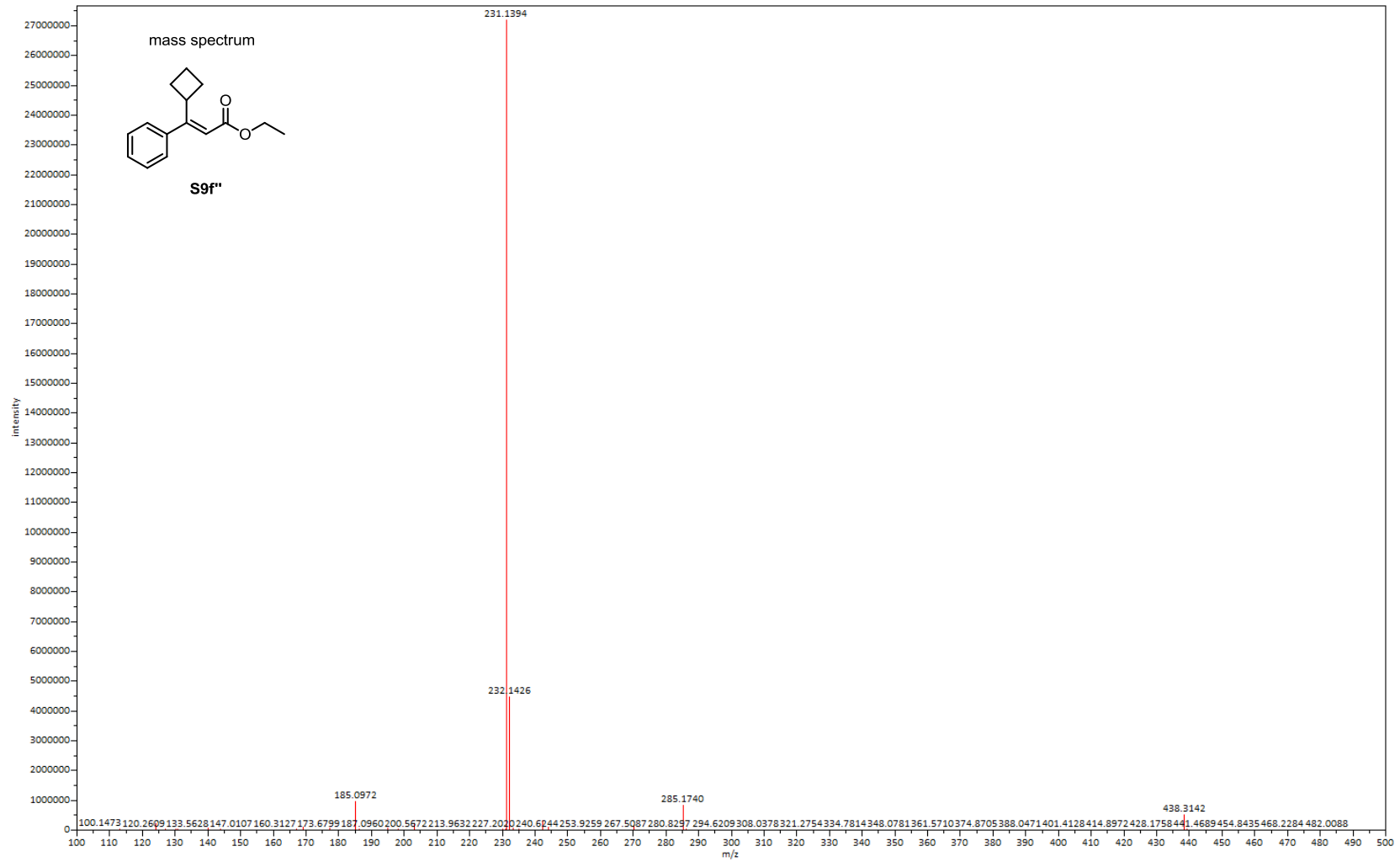
^1H - ^{13}C HSQC

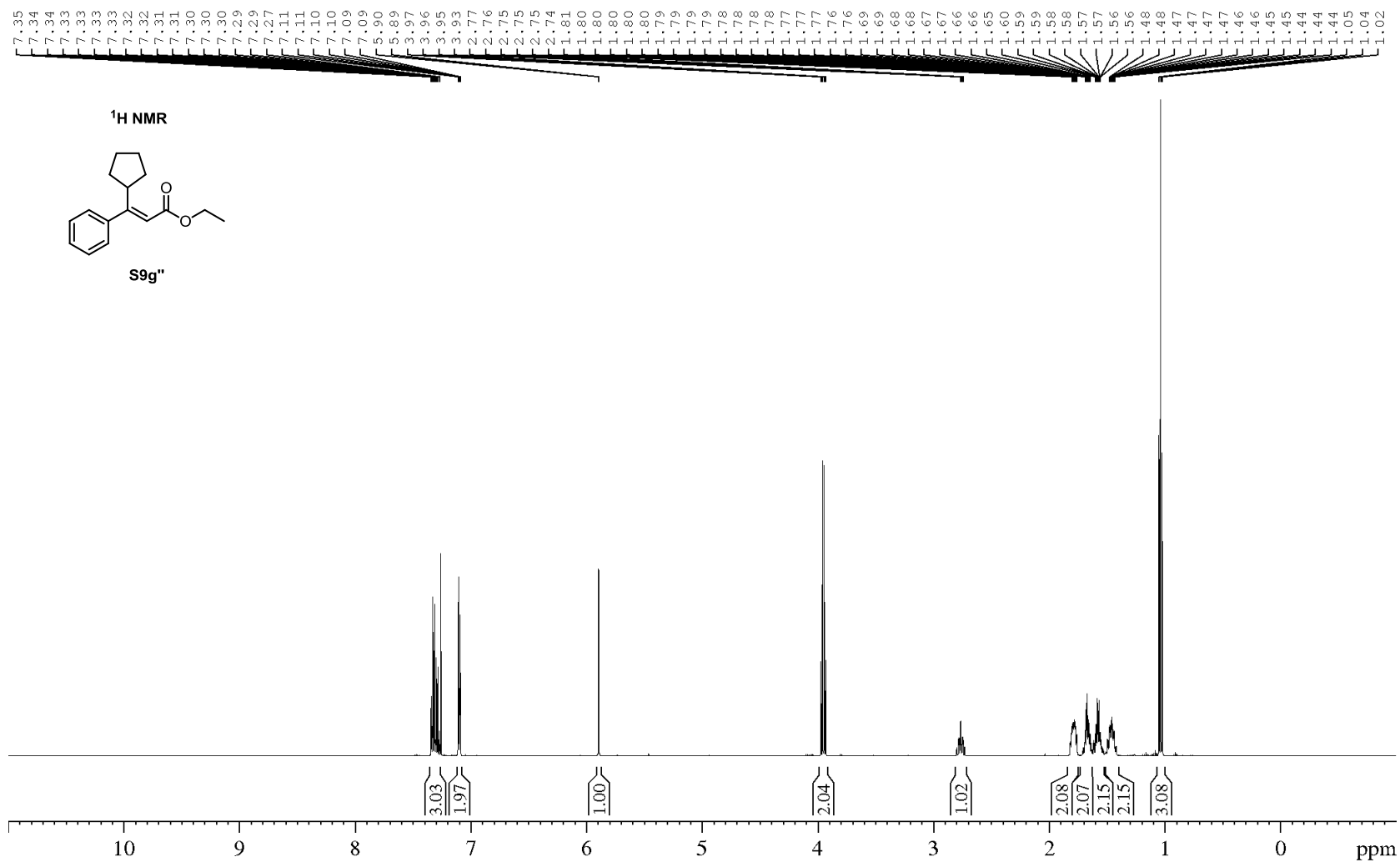


S9f''

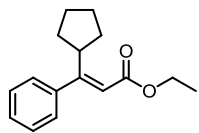




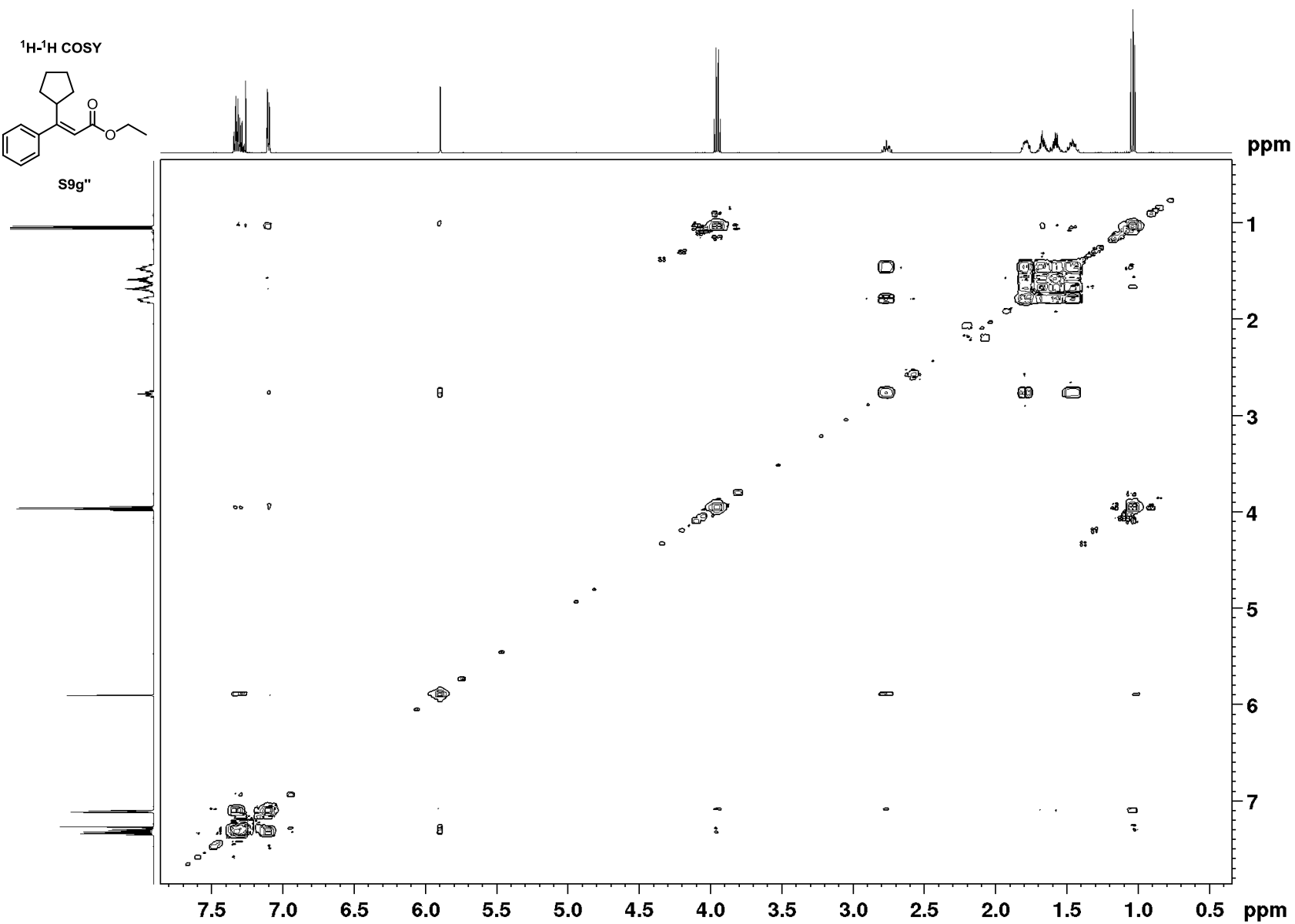




¹H-¹H COSY

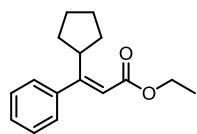


S9g''

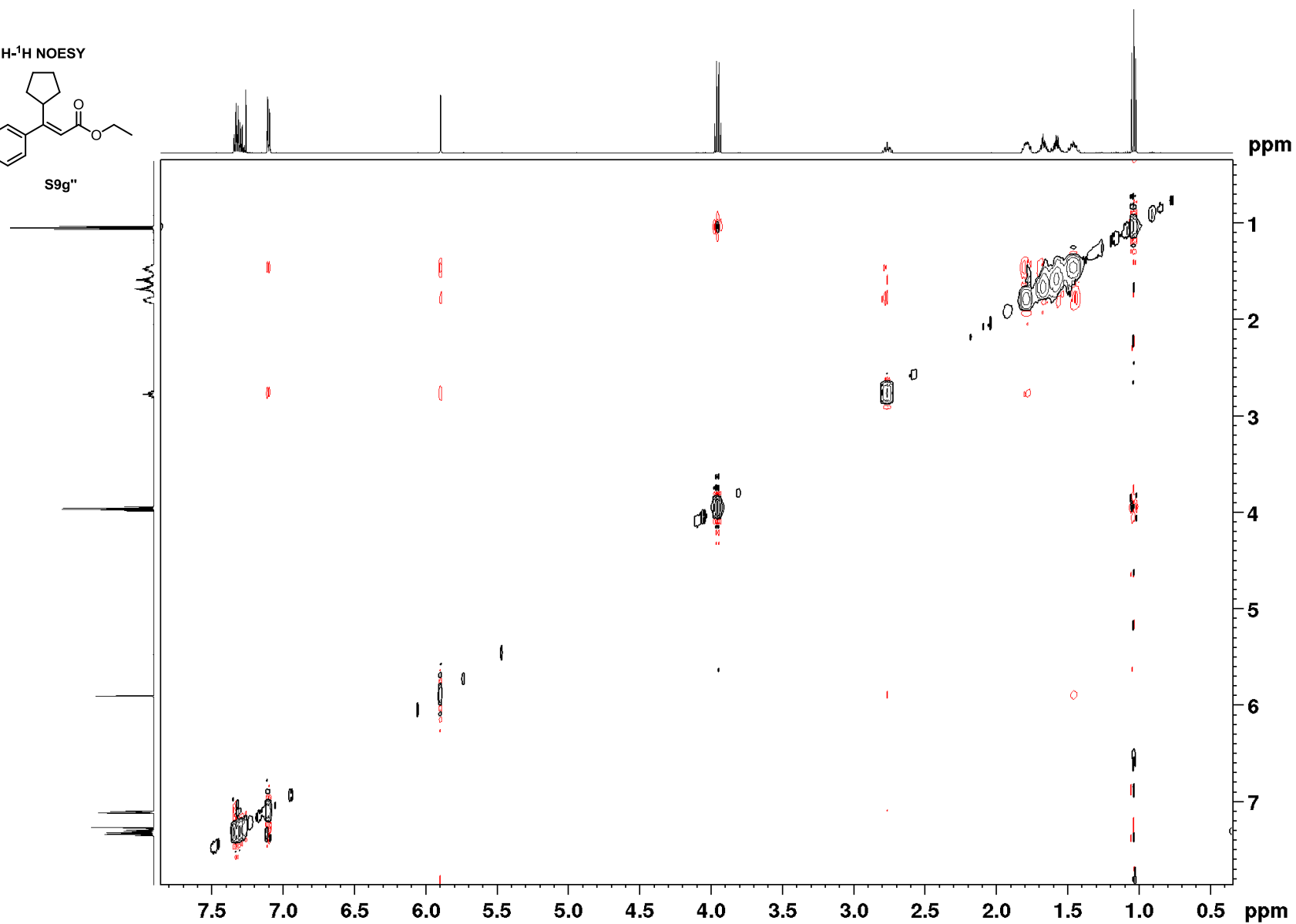


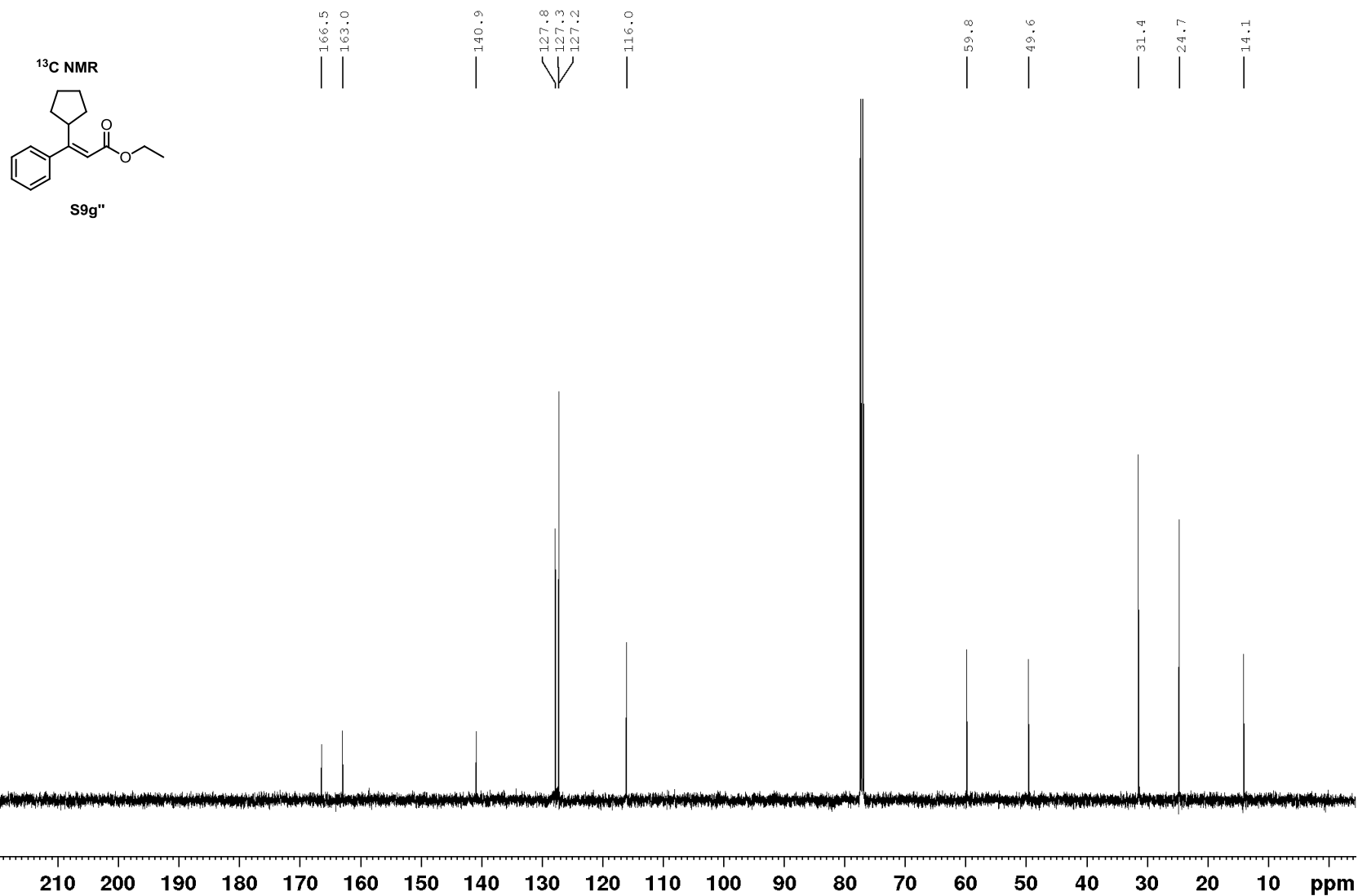
S230

¹H-¹H NOESY

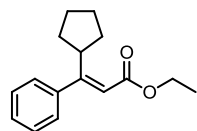


S9g''

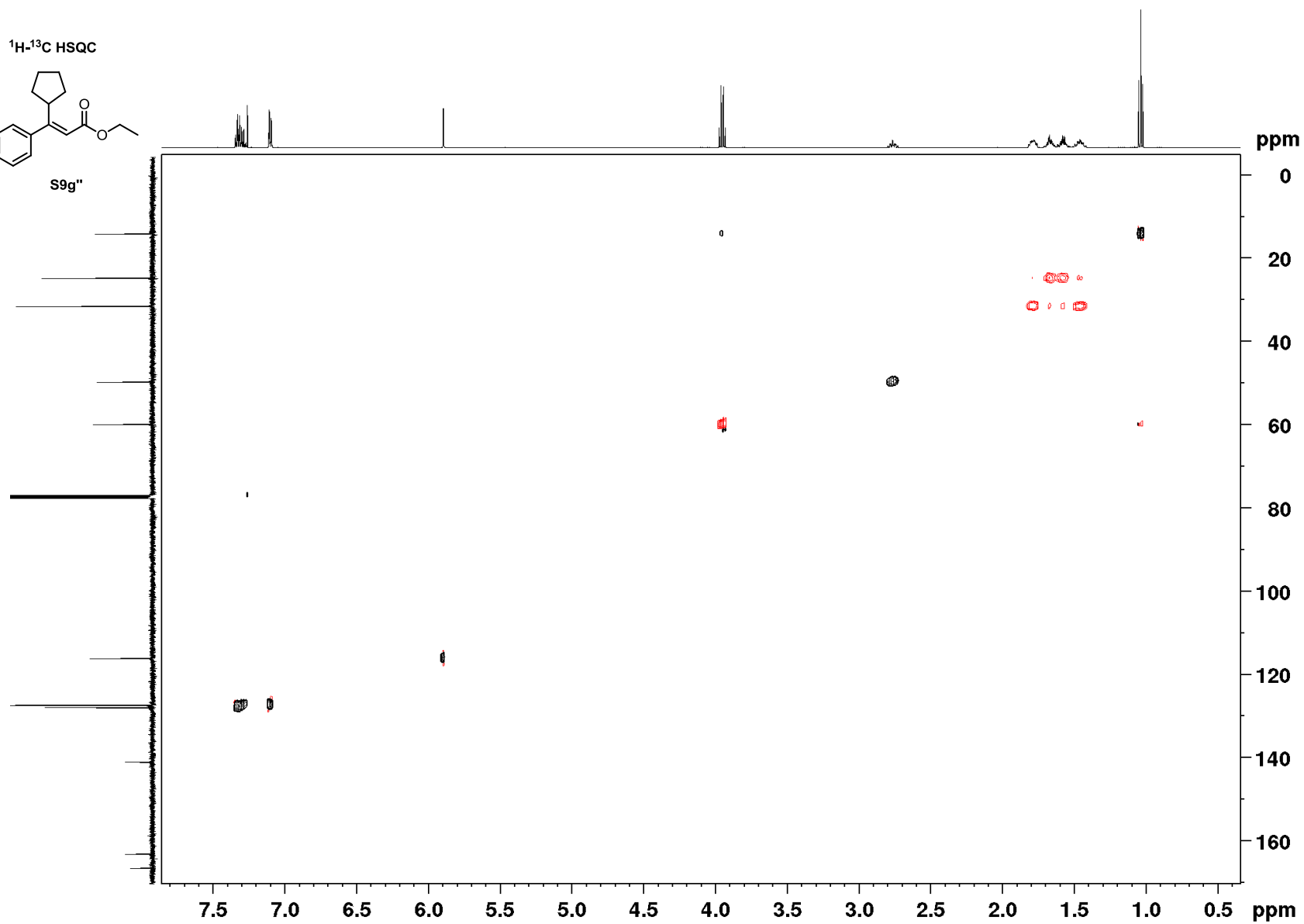




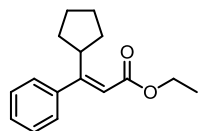
¹H-¹³C HSQC



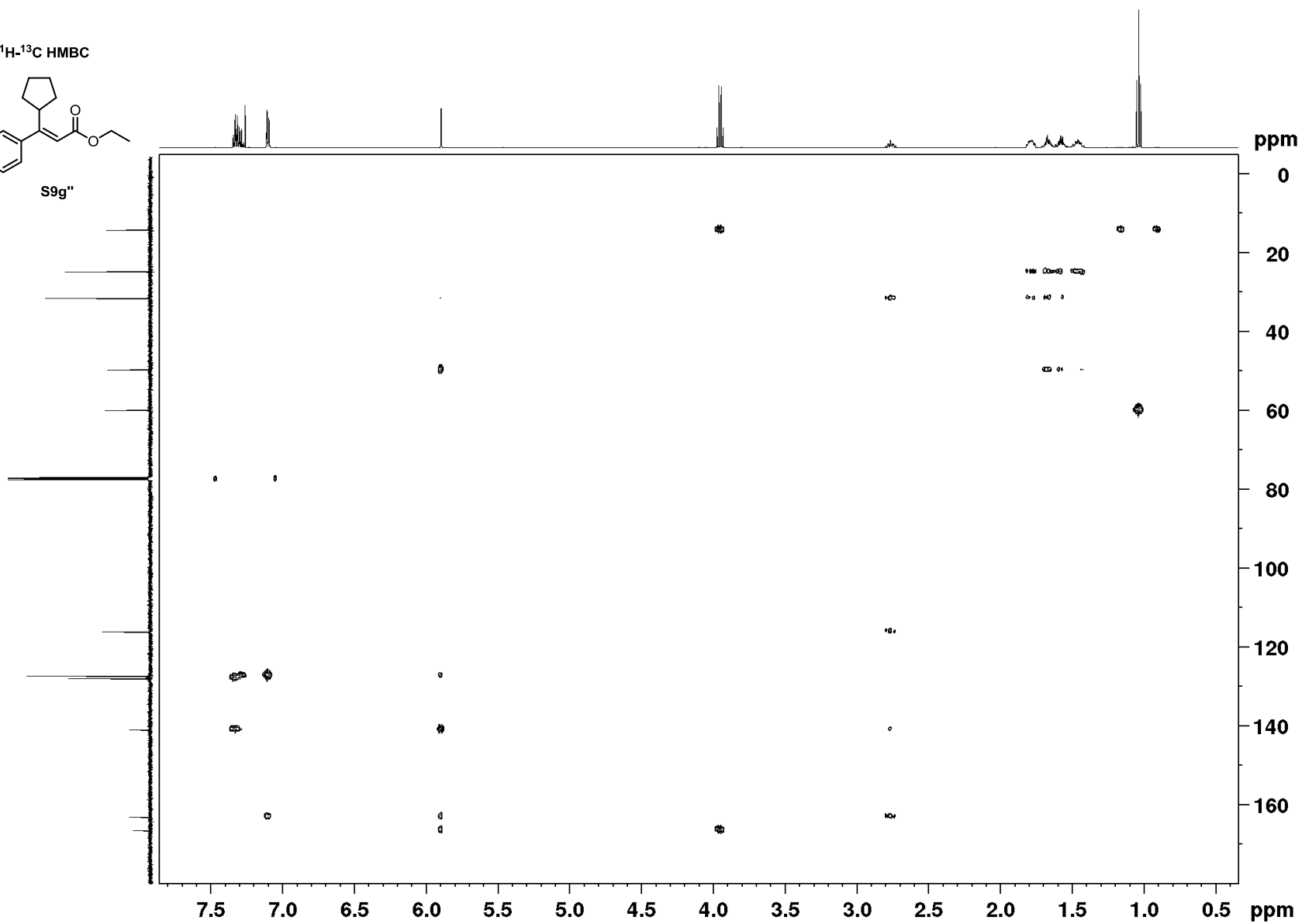
S9g''

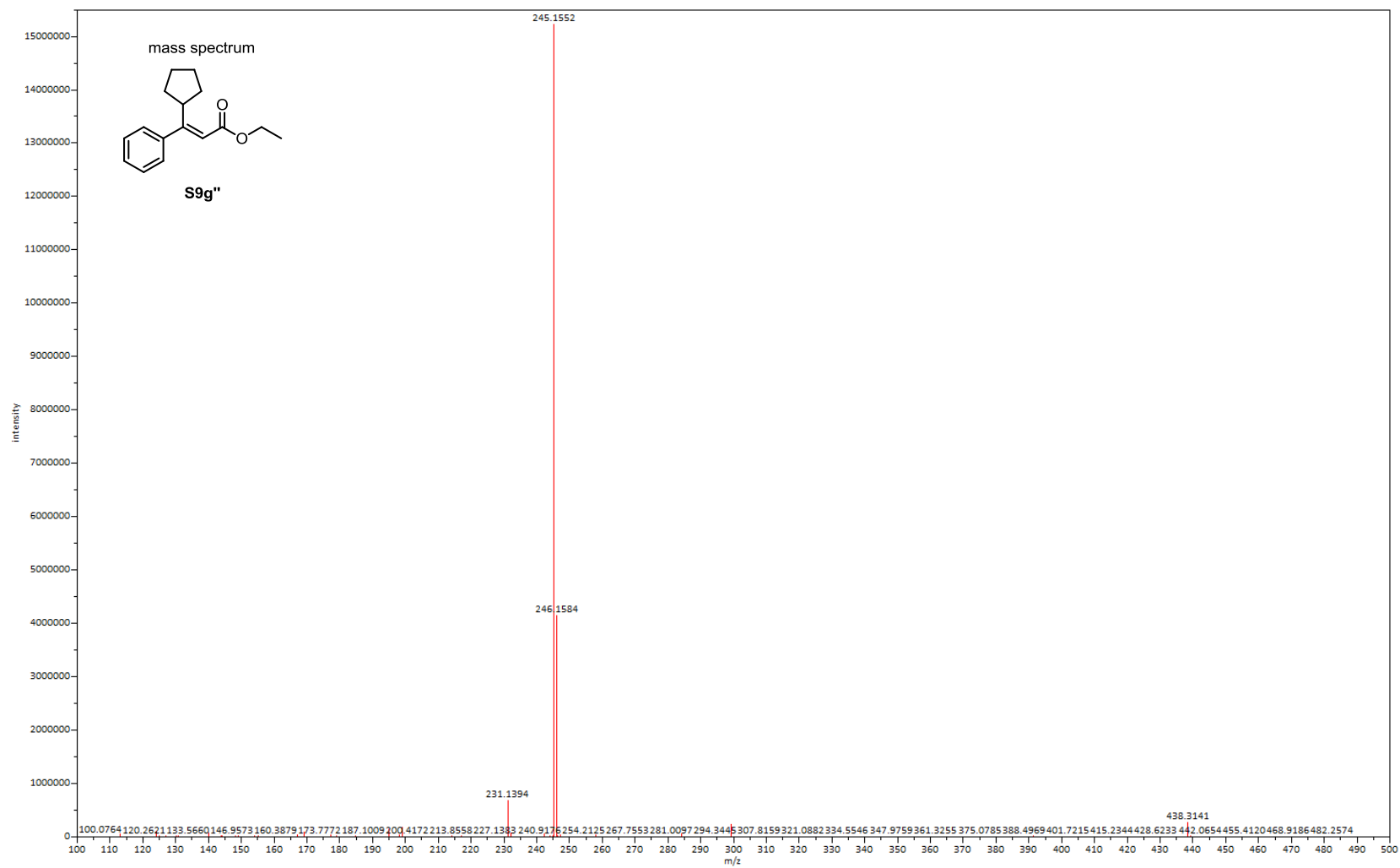


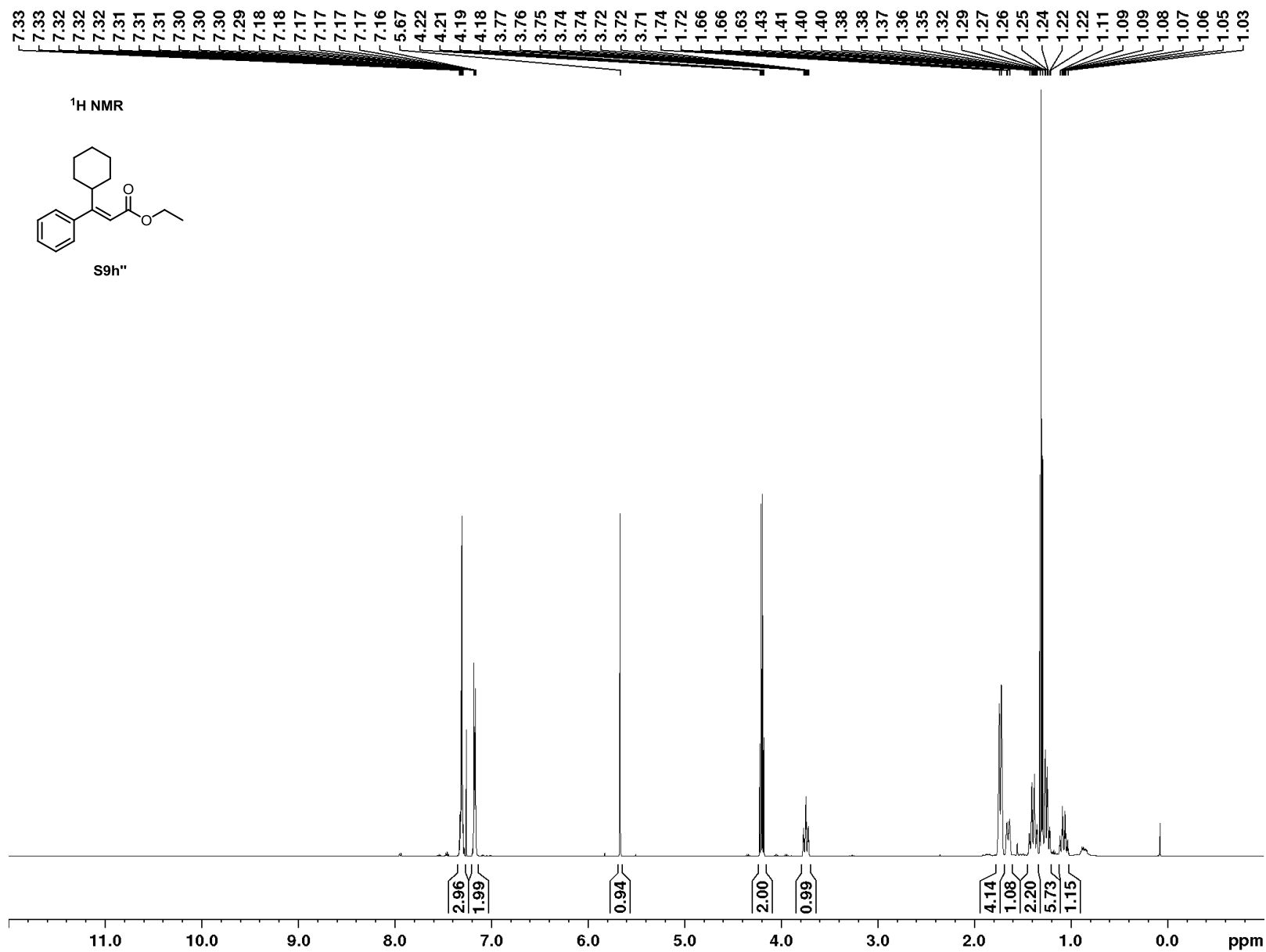
¹H-¹³C HMBC



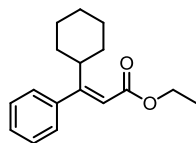
S9g''



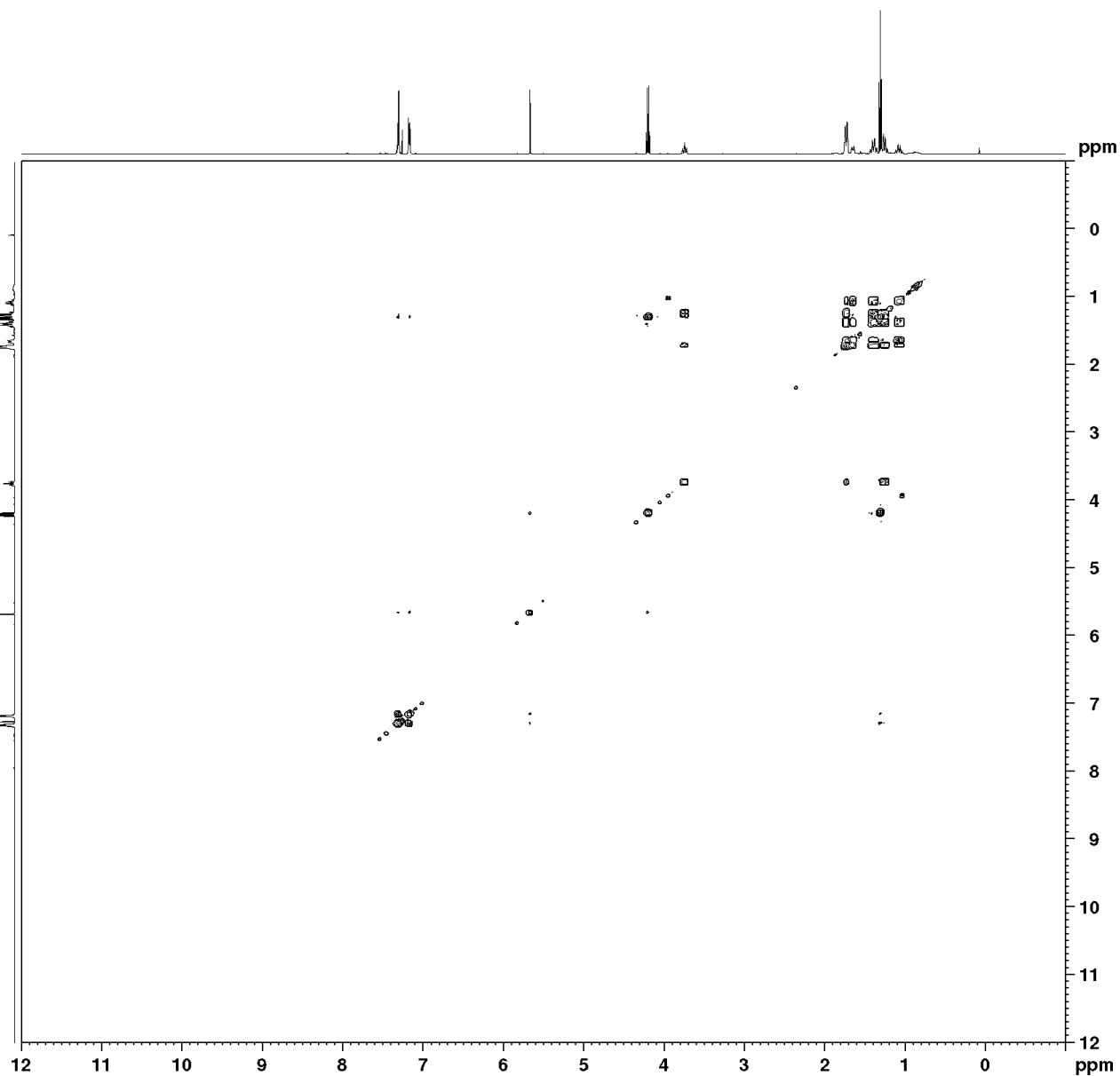




^1H - ^1H COSY

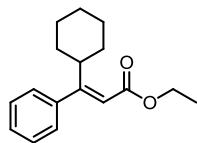


S9h''

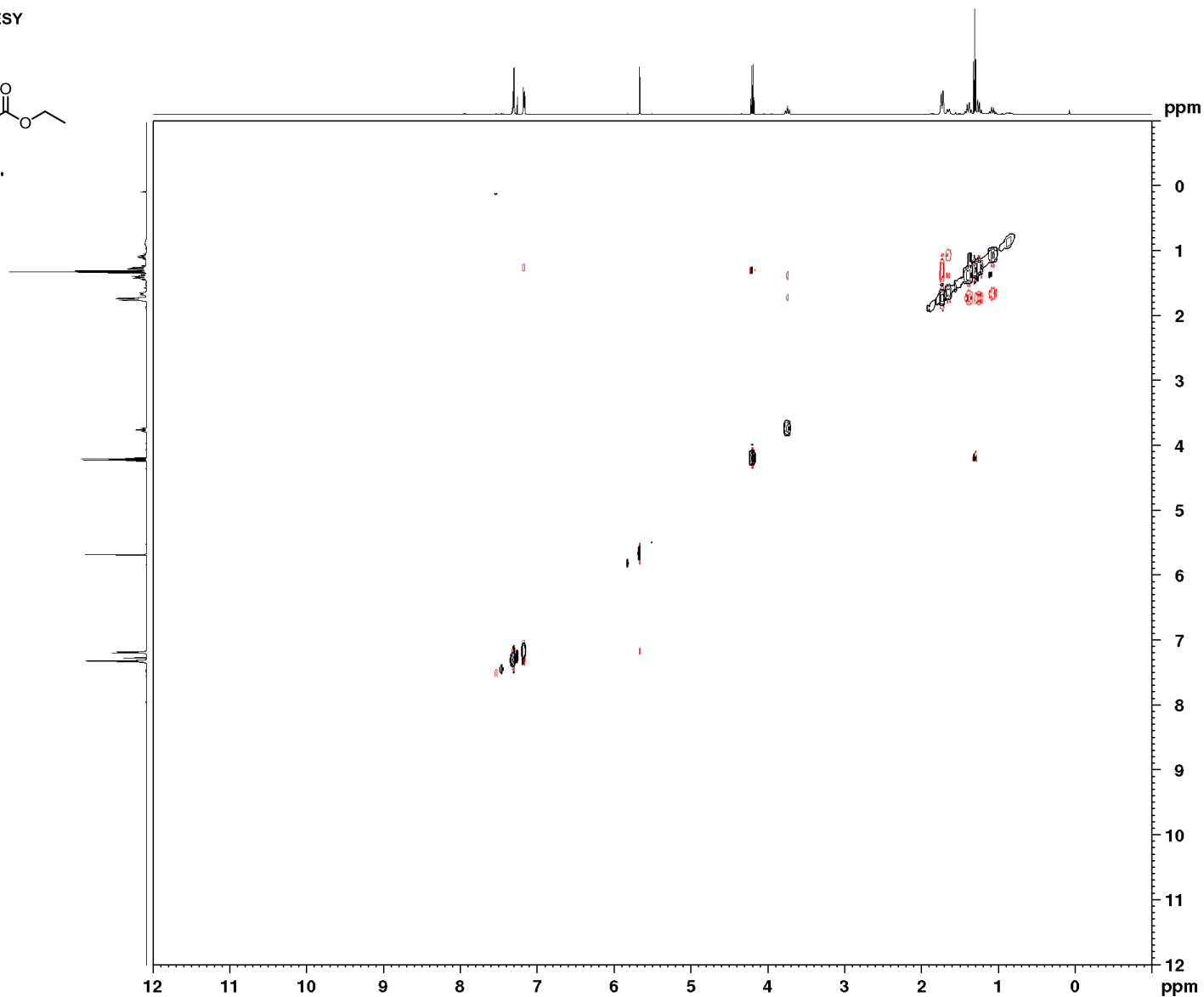


S237

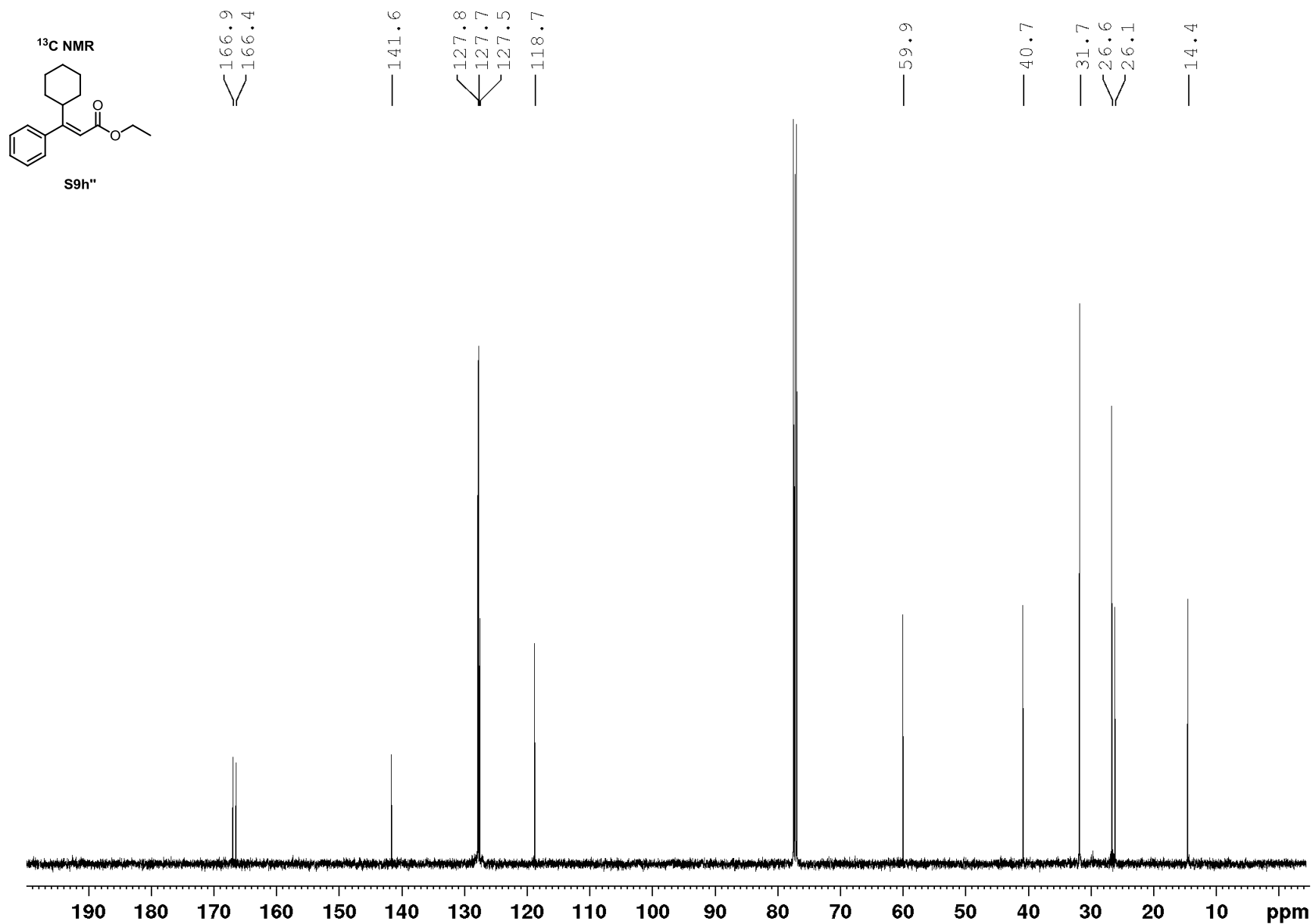
¹H-¹H NOESY



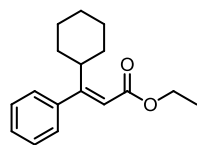
S9h''



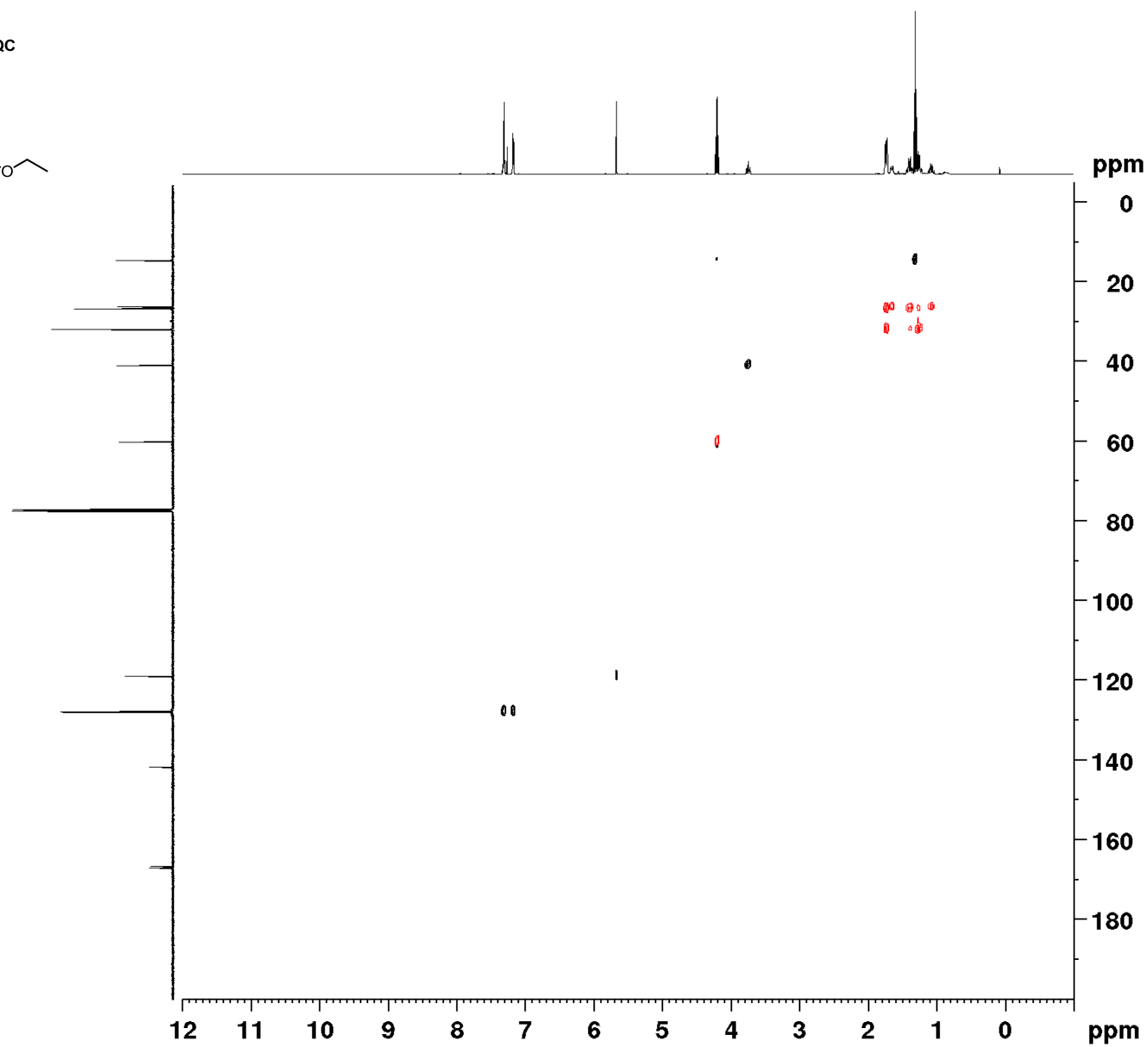
S238



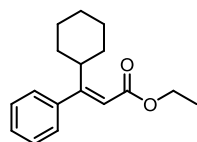
^1H - ^{13}C HSQC



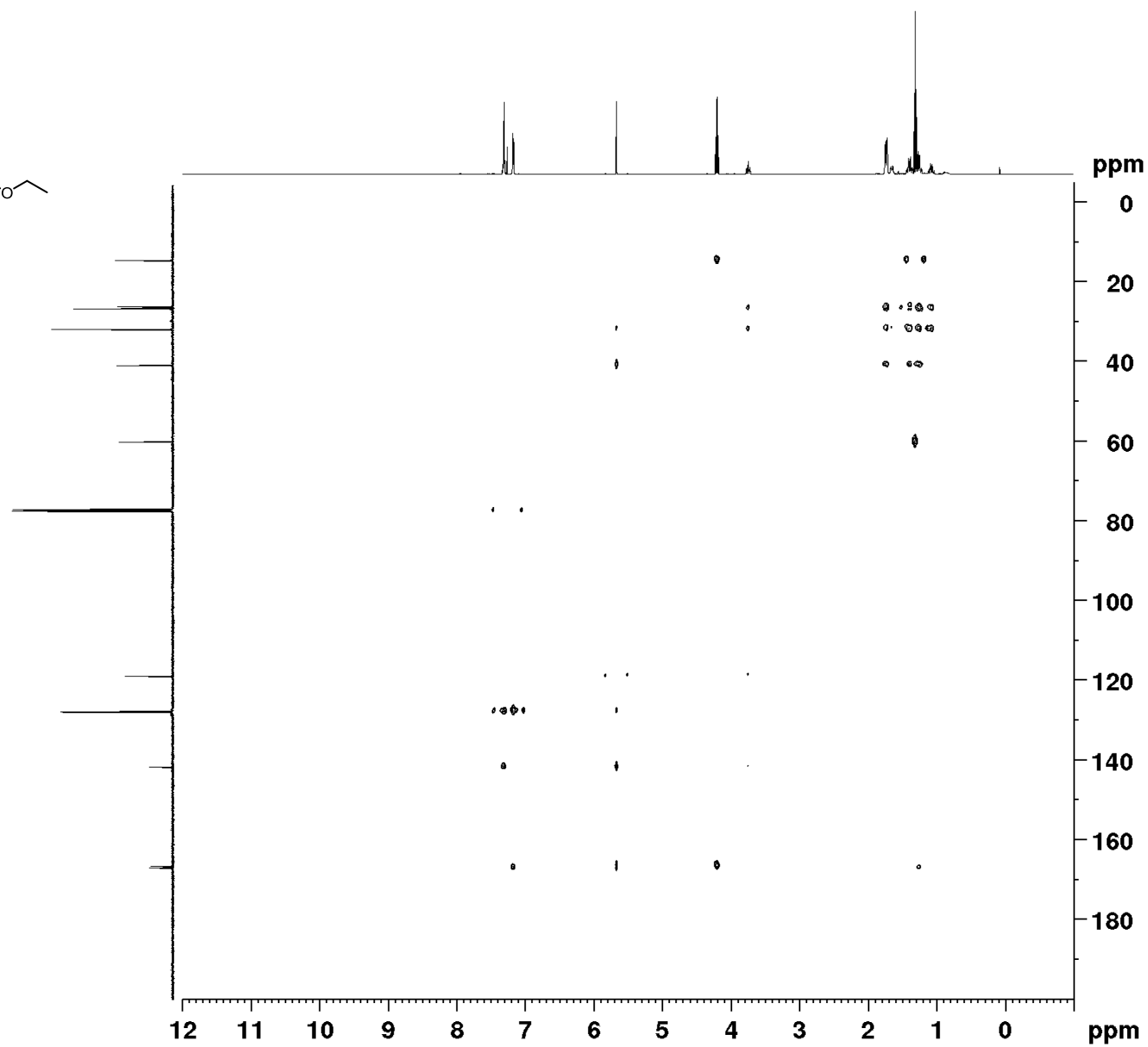
S9h''

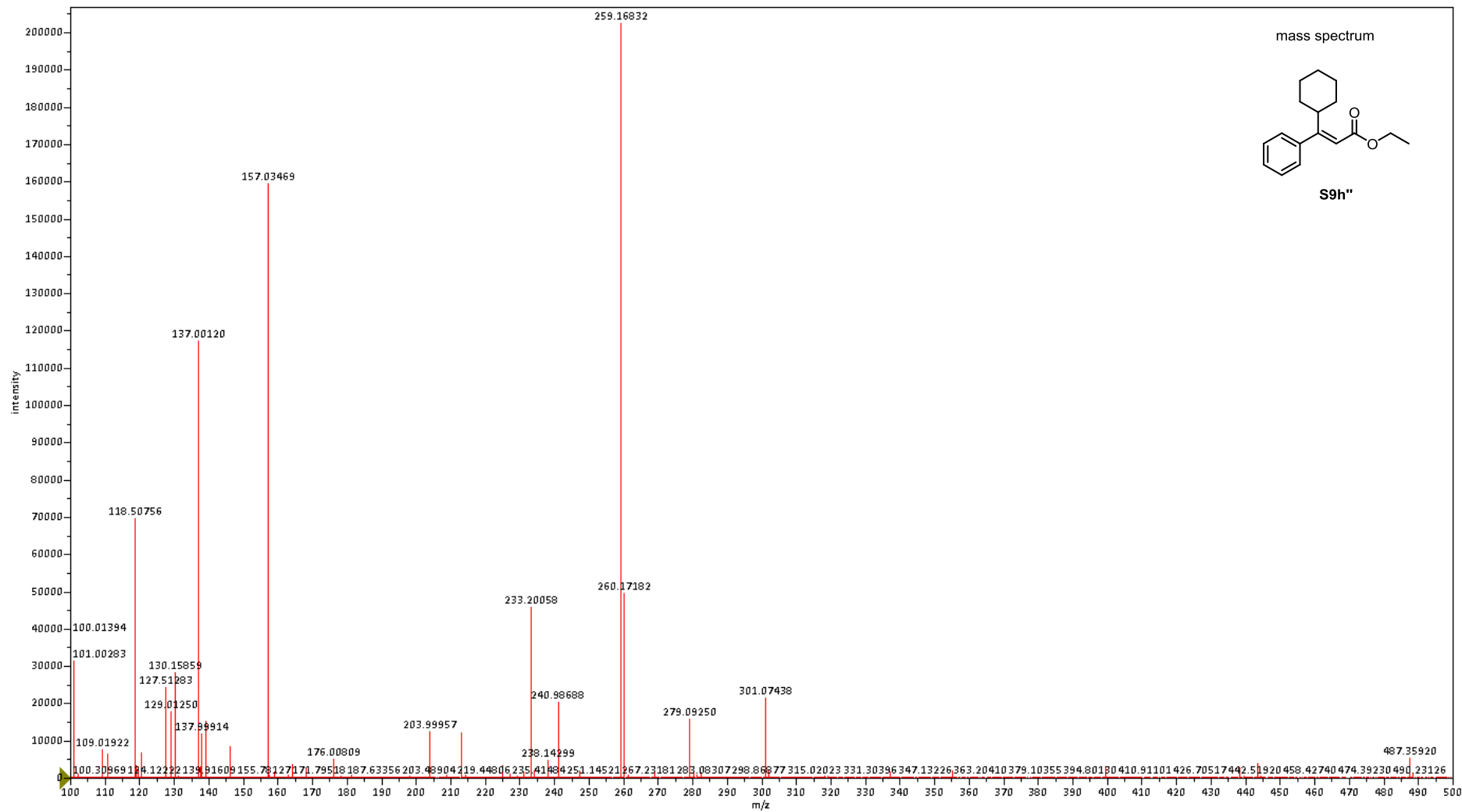


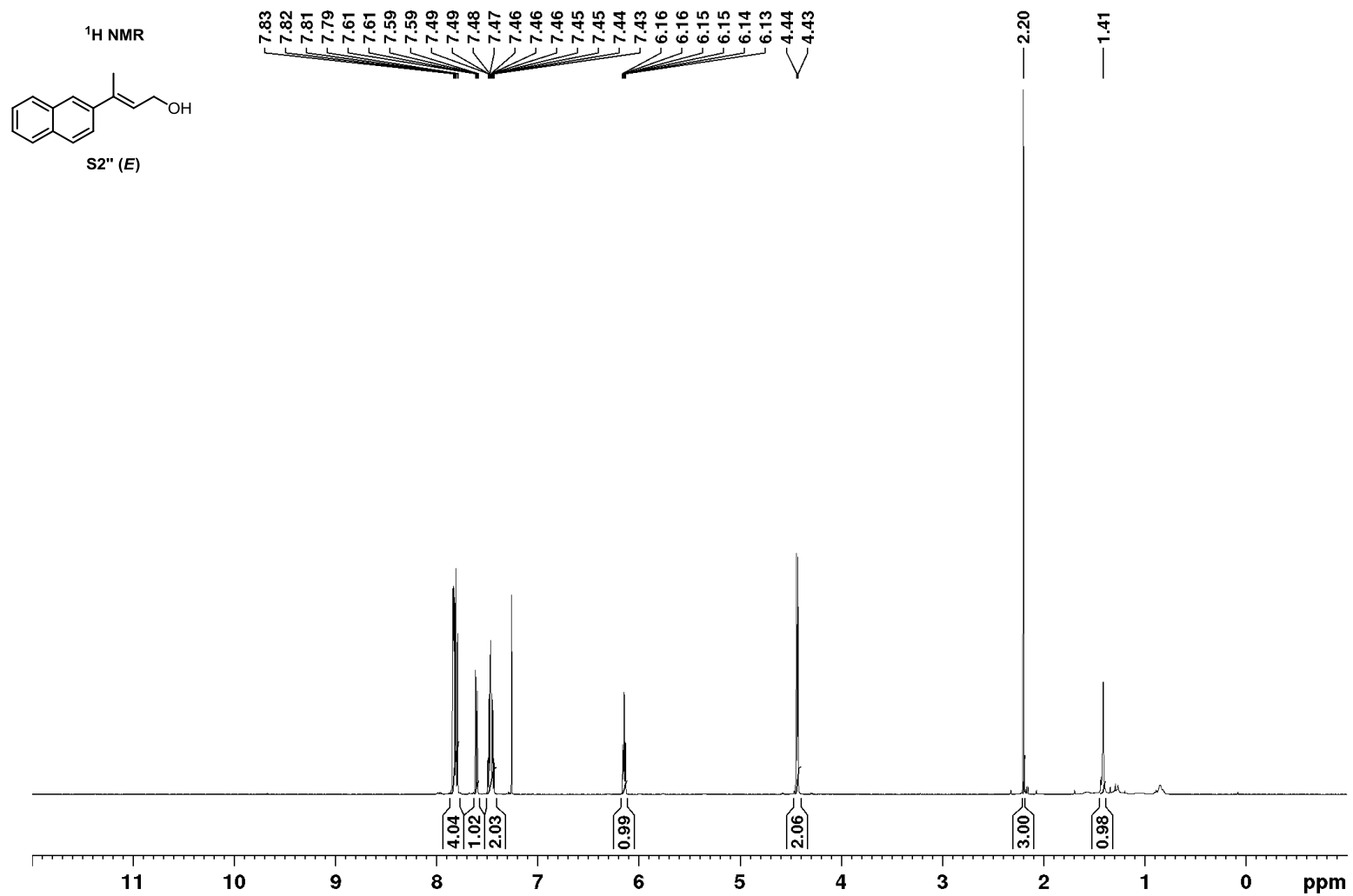
¹H-¹³C HMBC

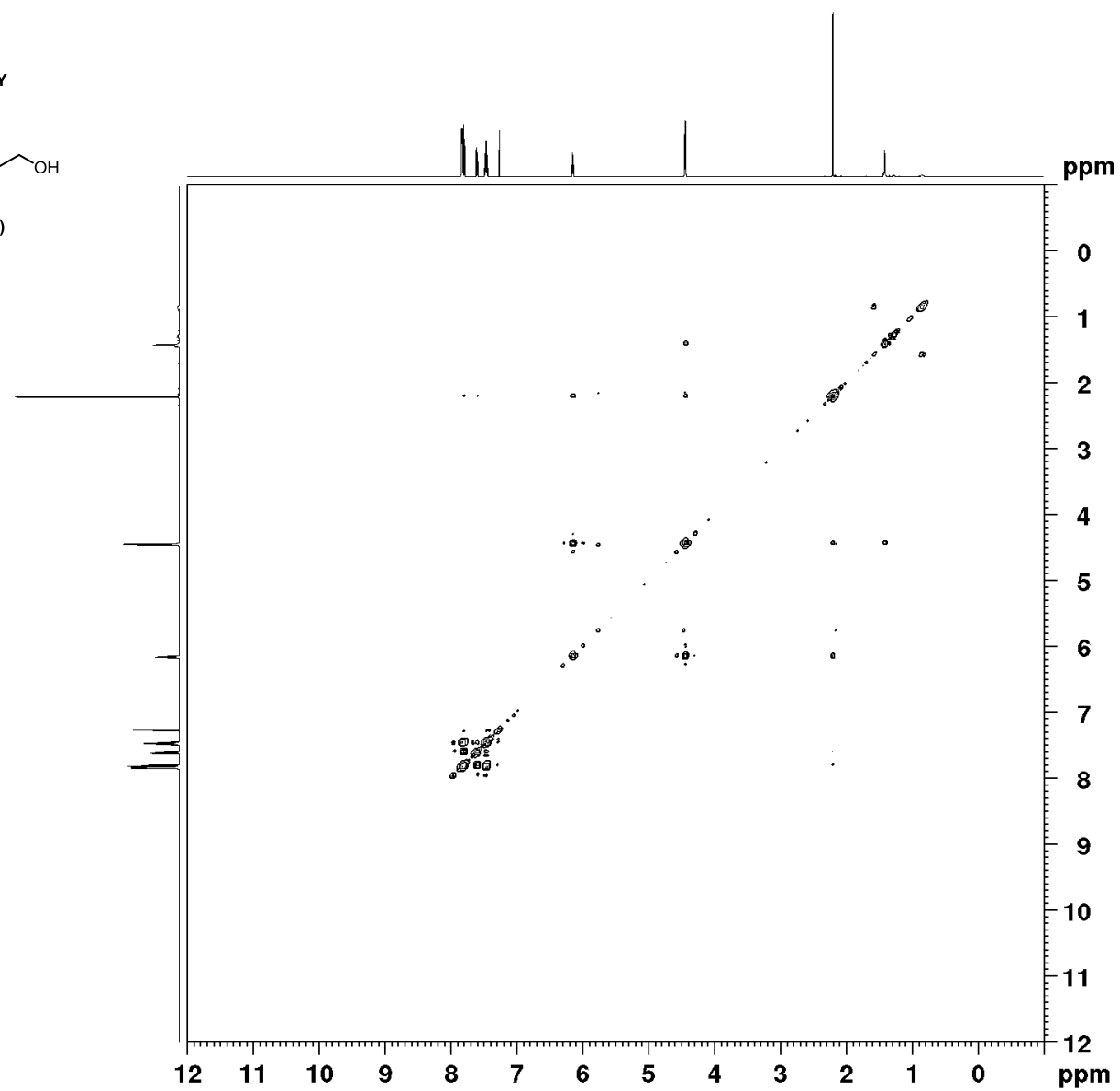
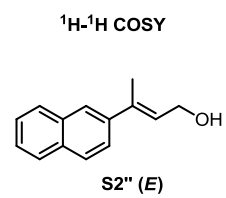


S9h''

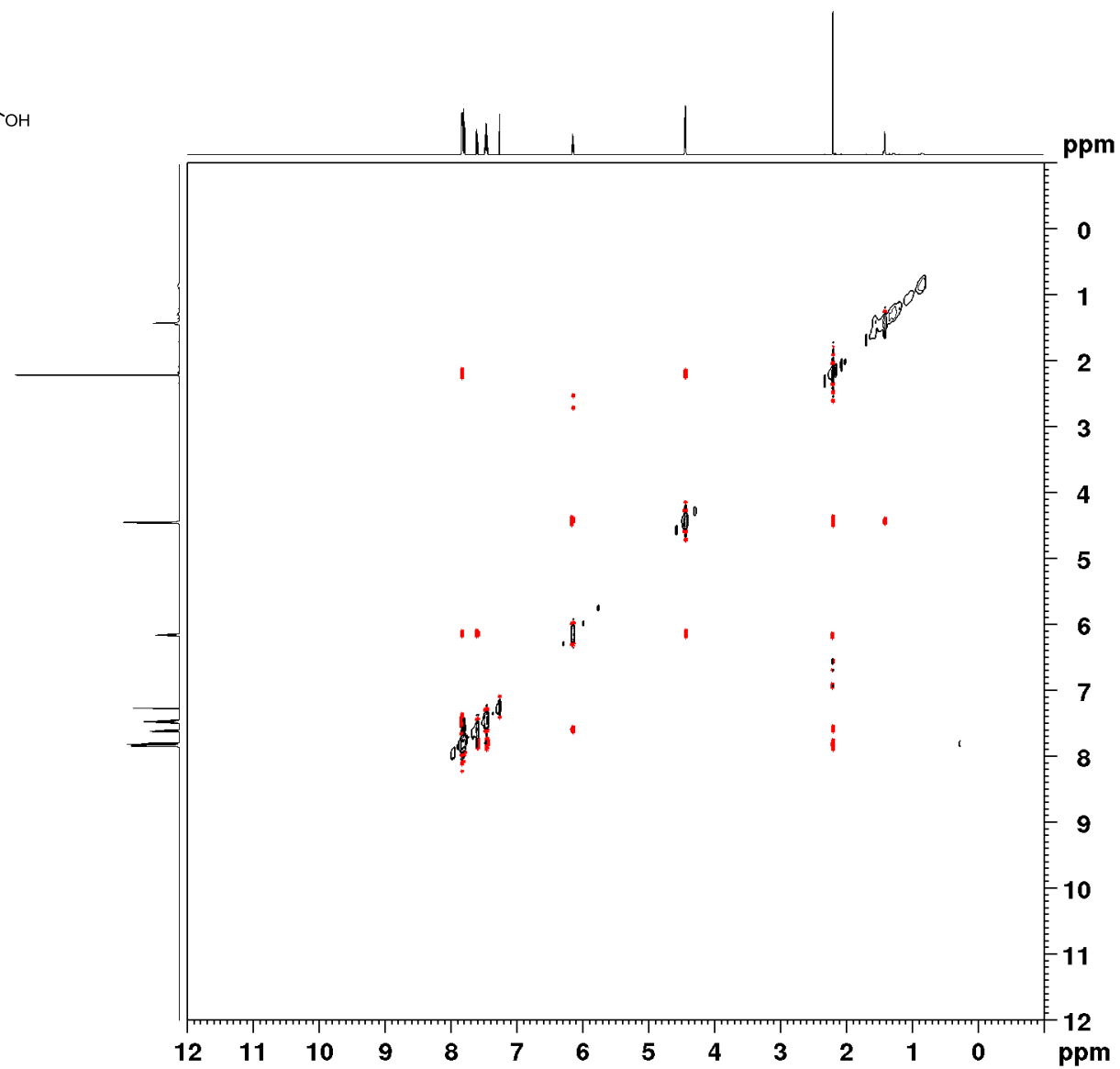
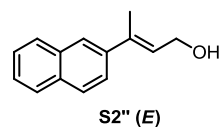


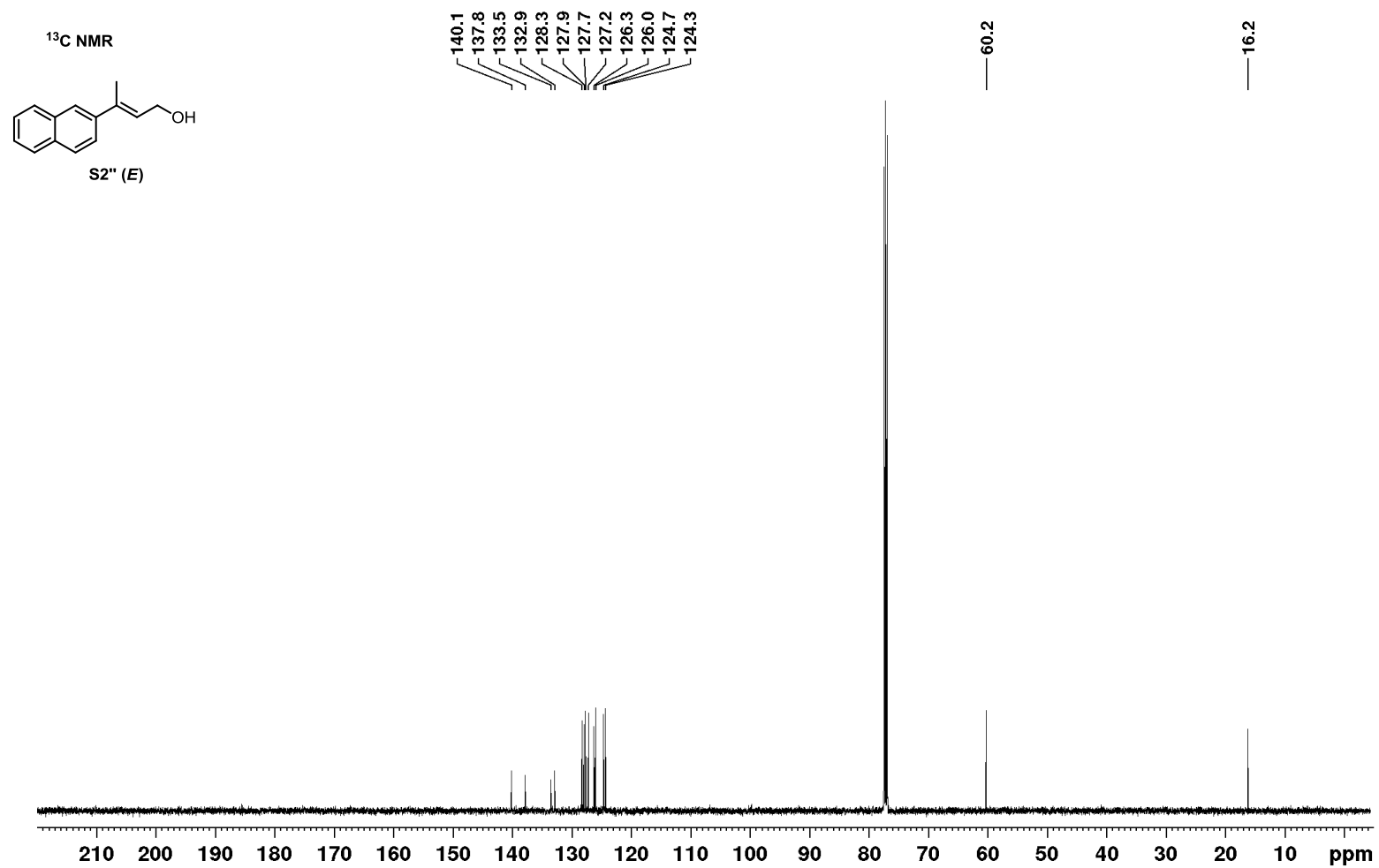


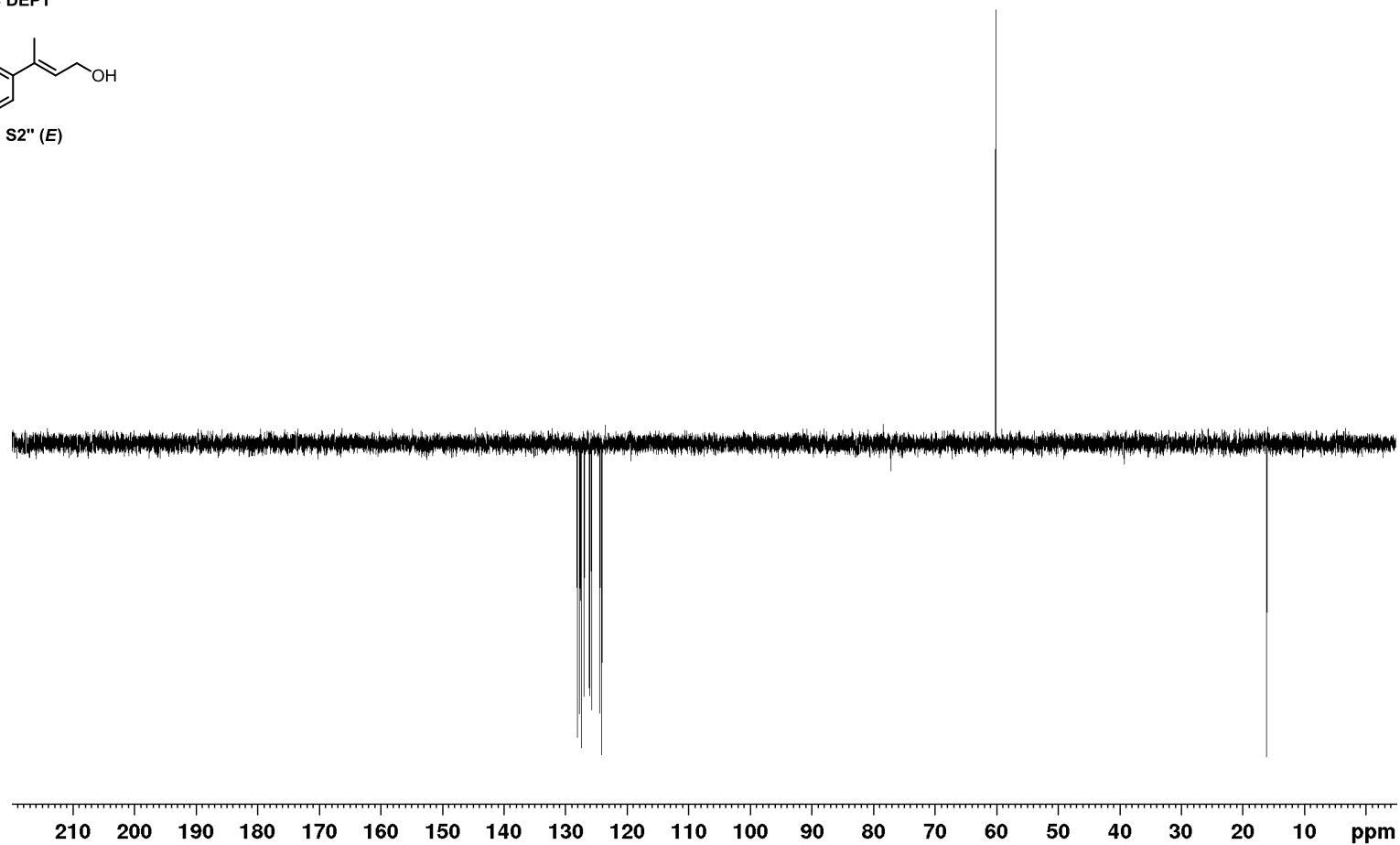
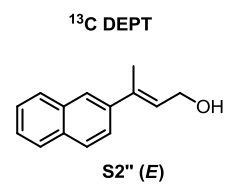


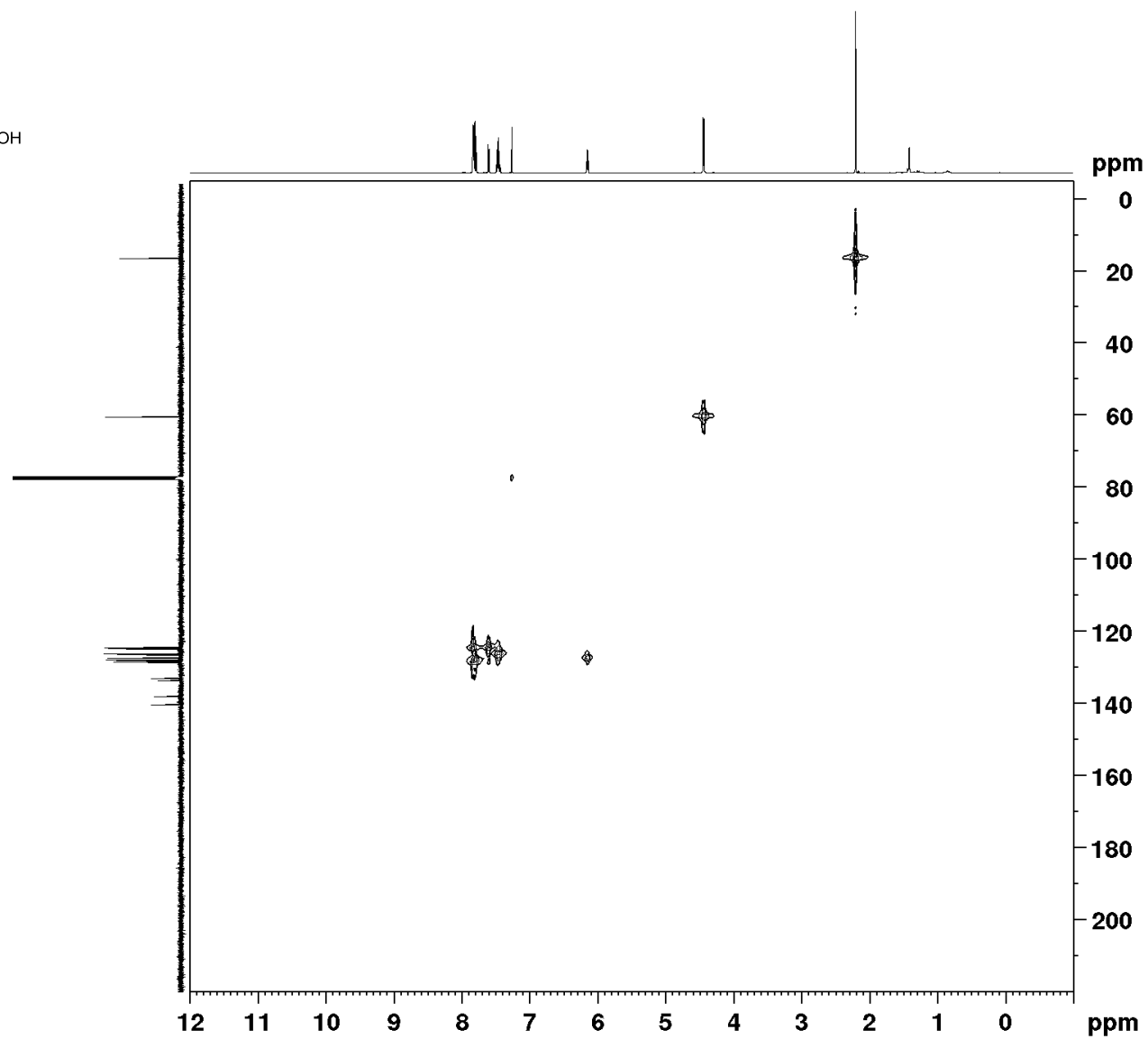
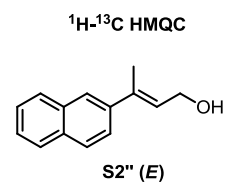


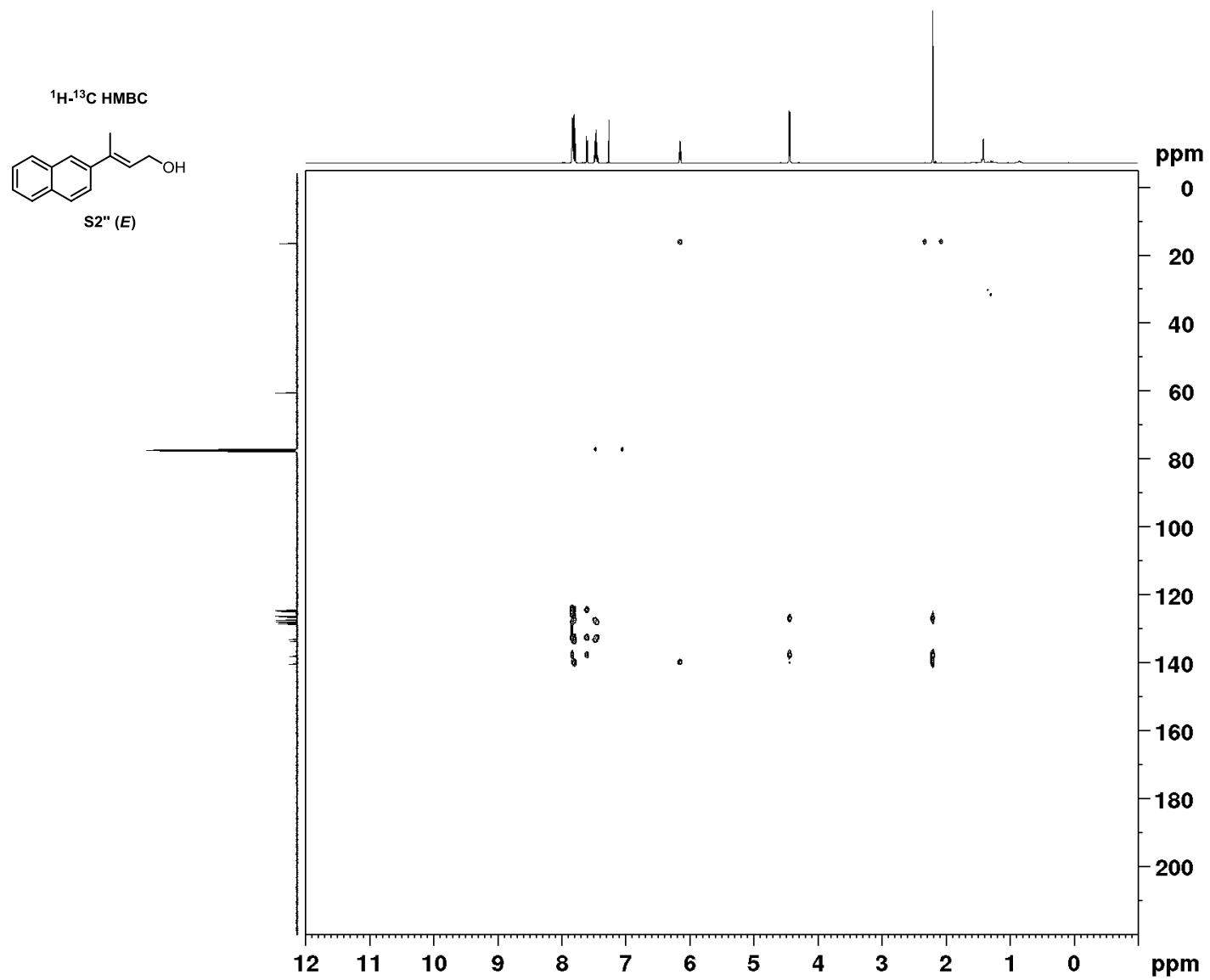
¹H-¹H NOESY

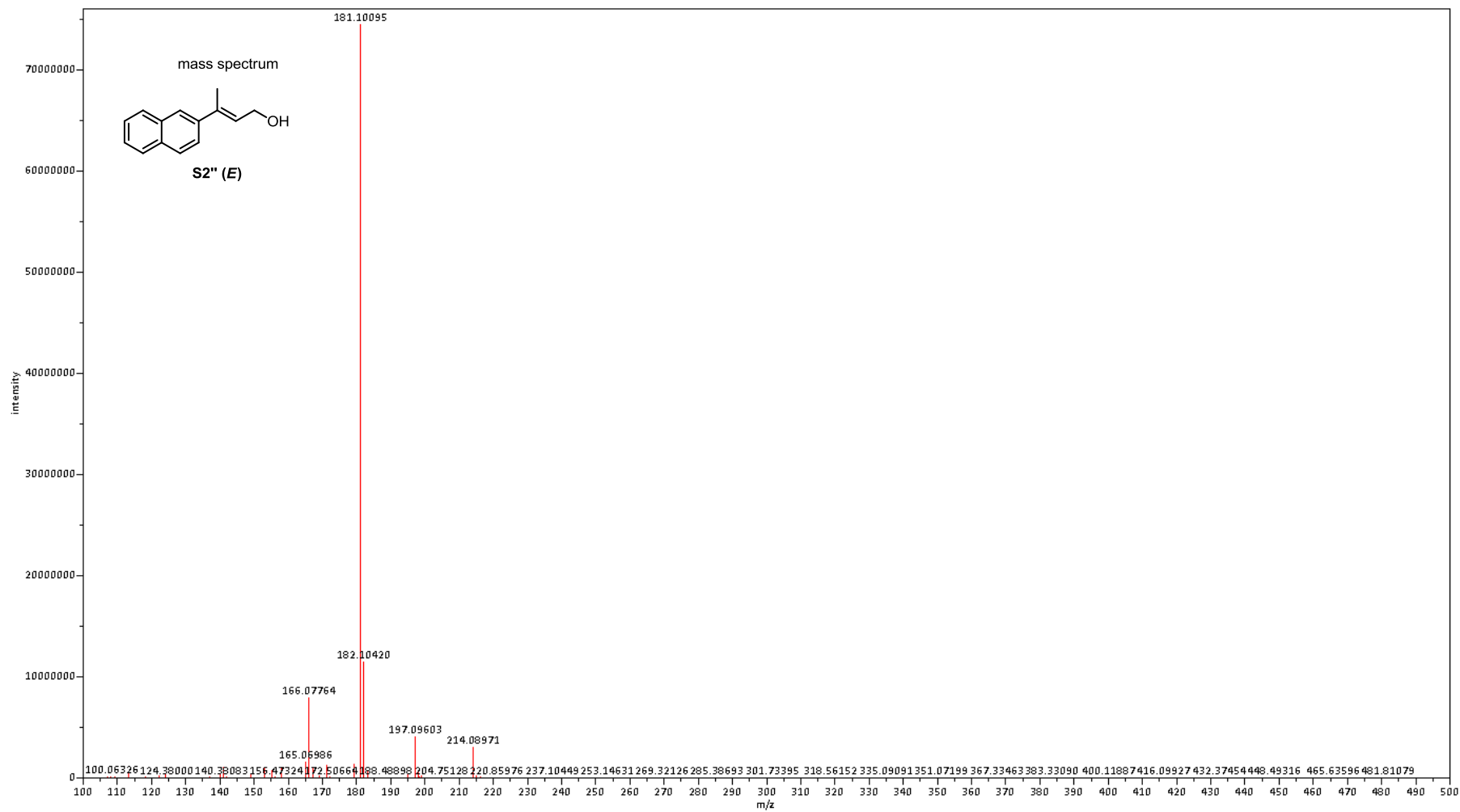


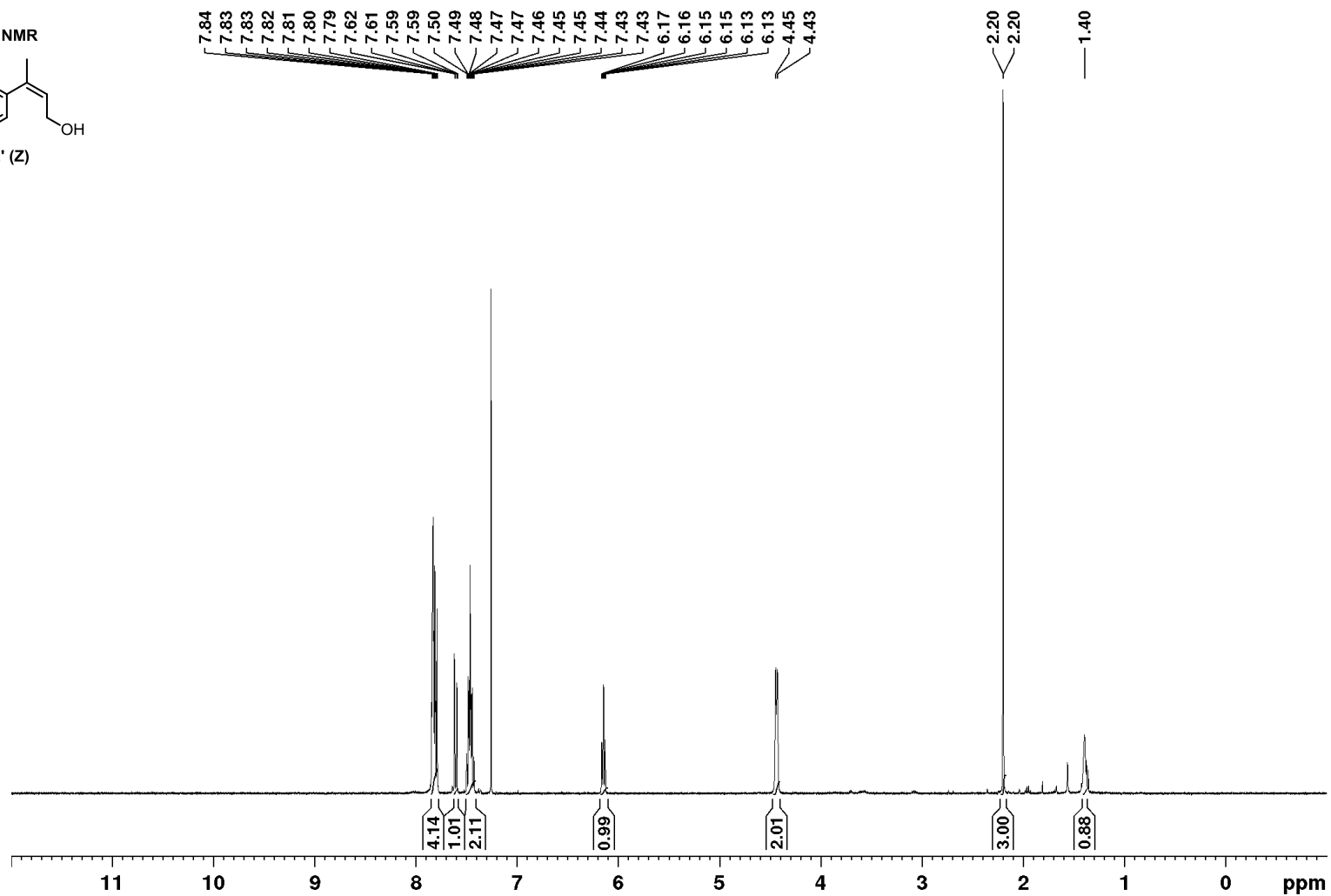
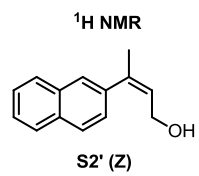


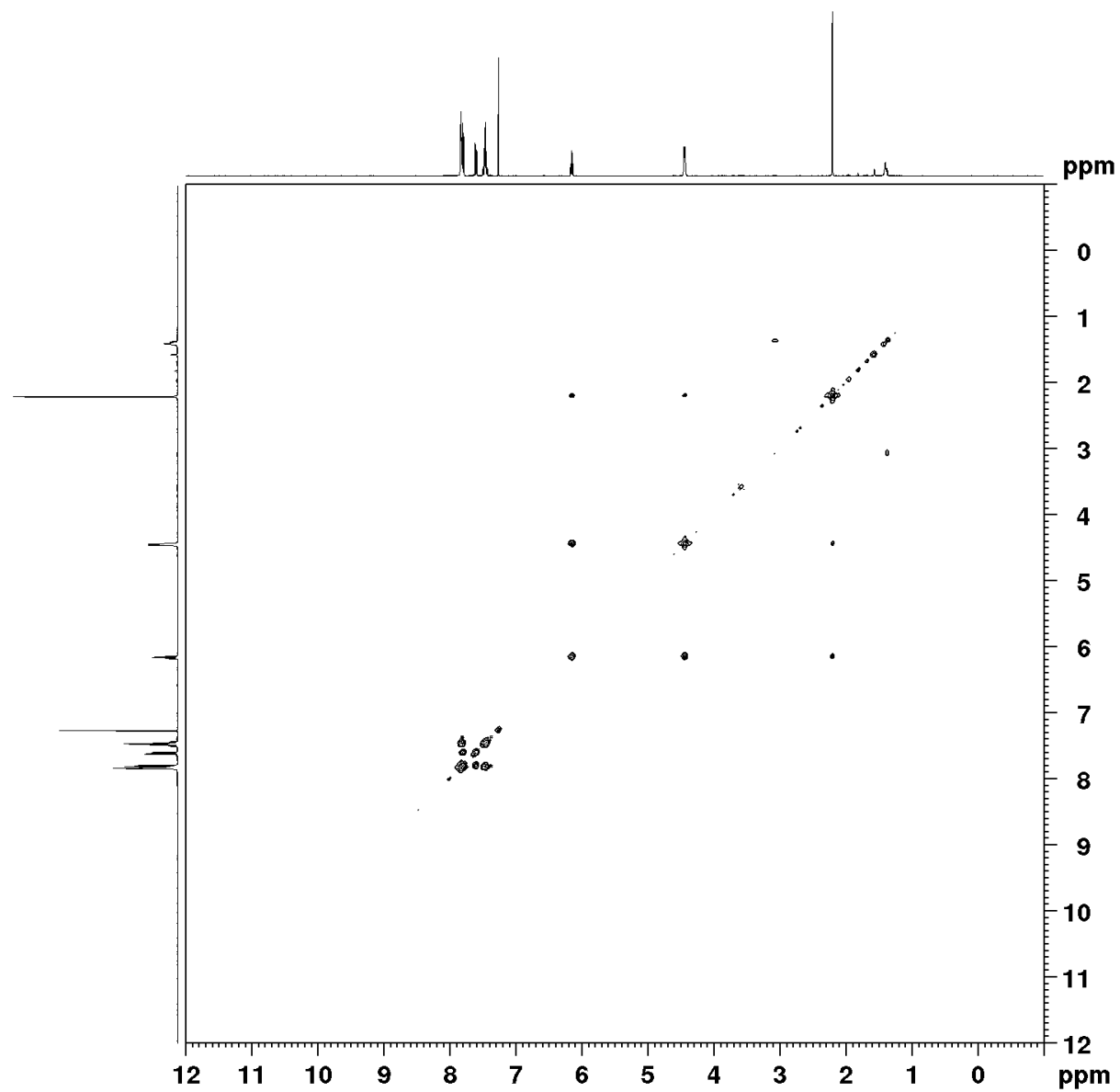
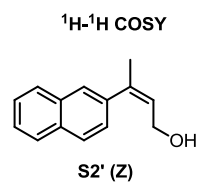


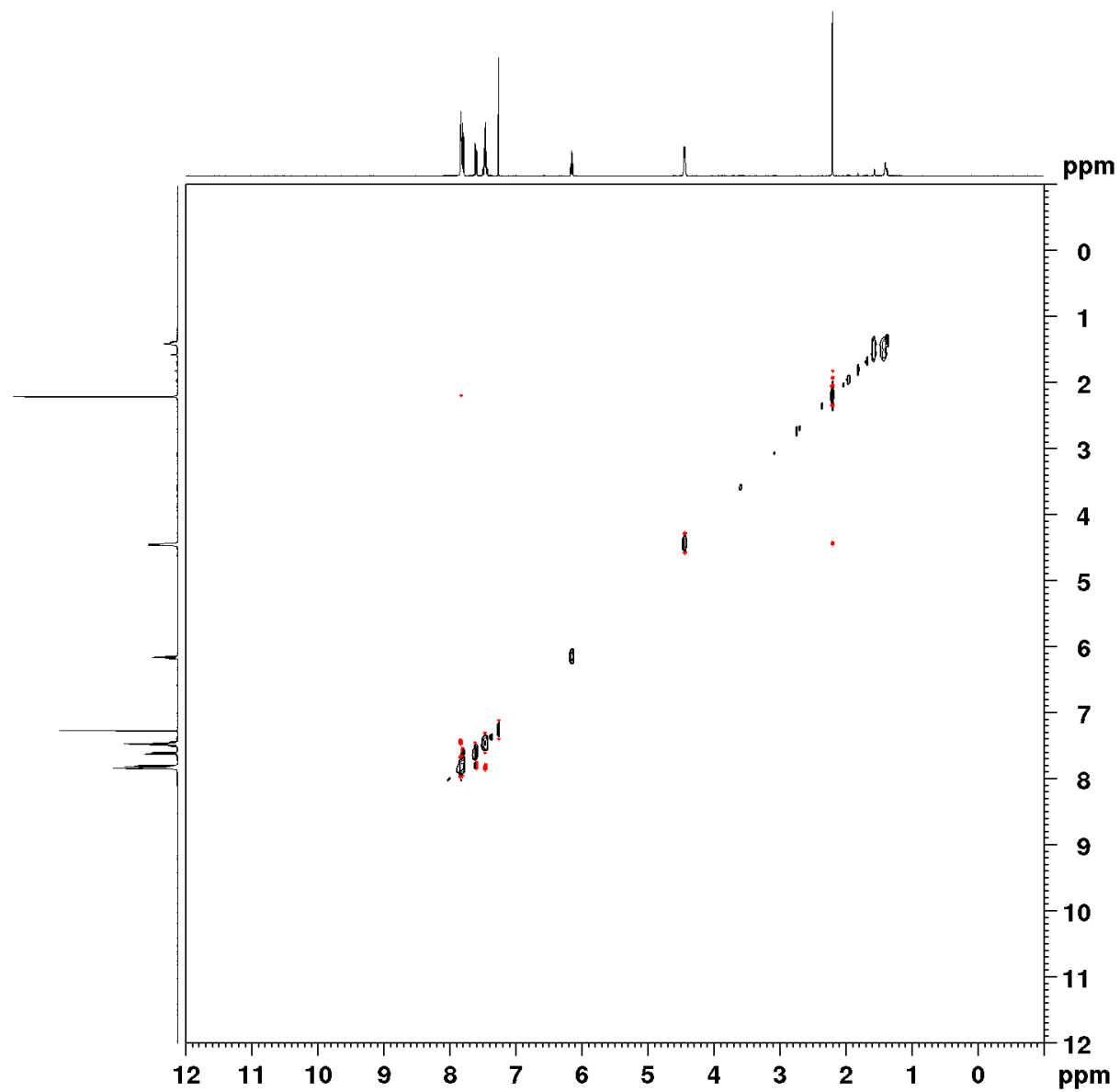
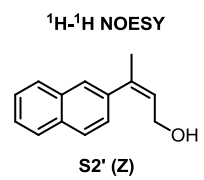


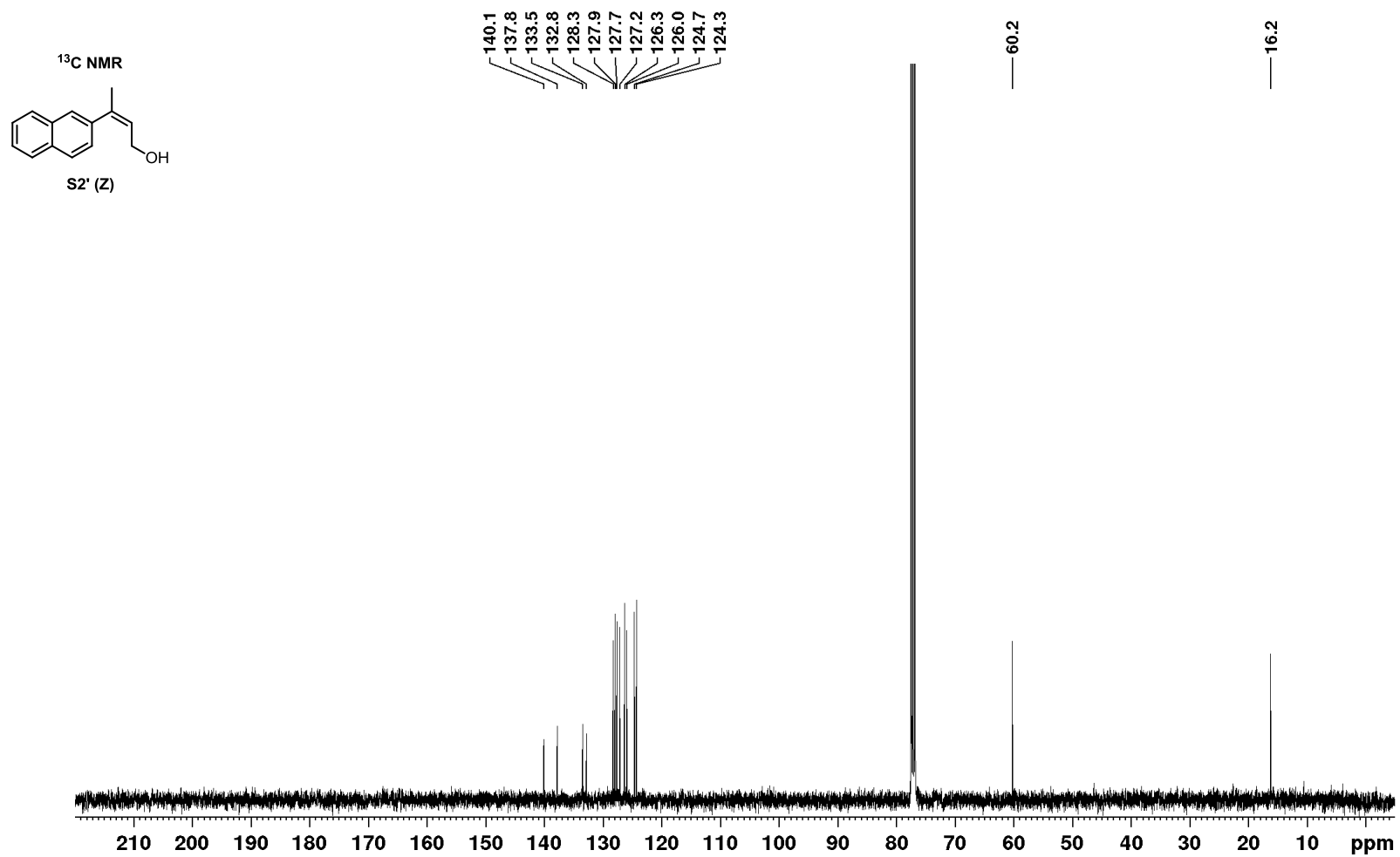


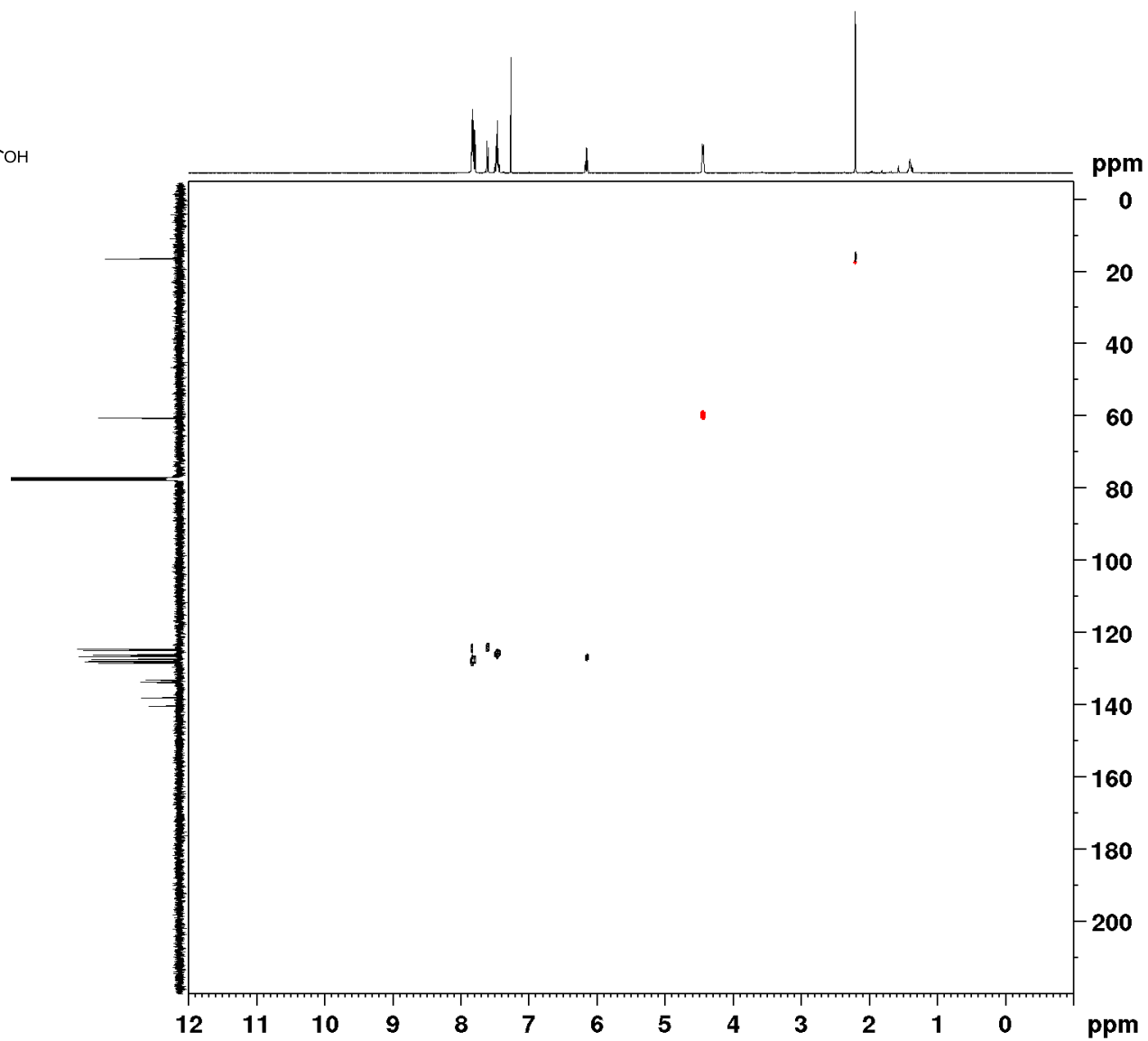
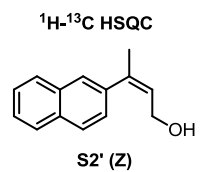


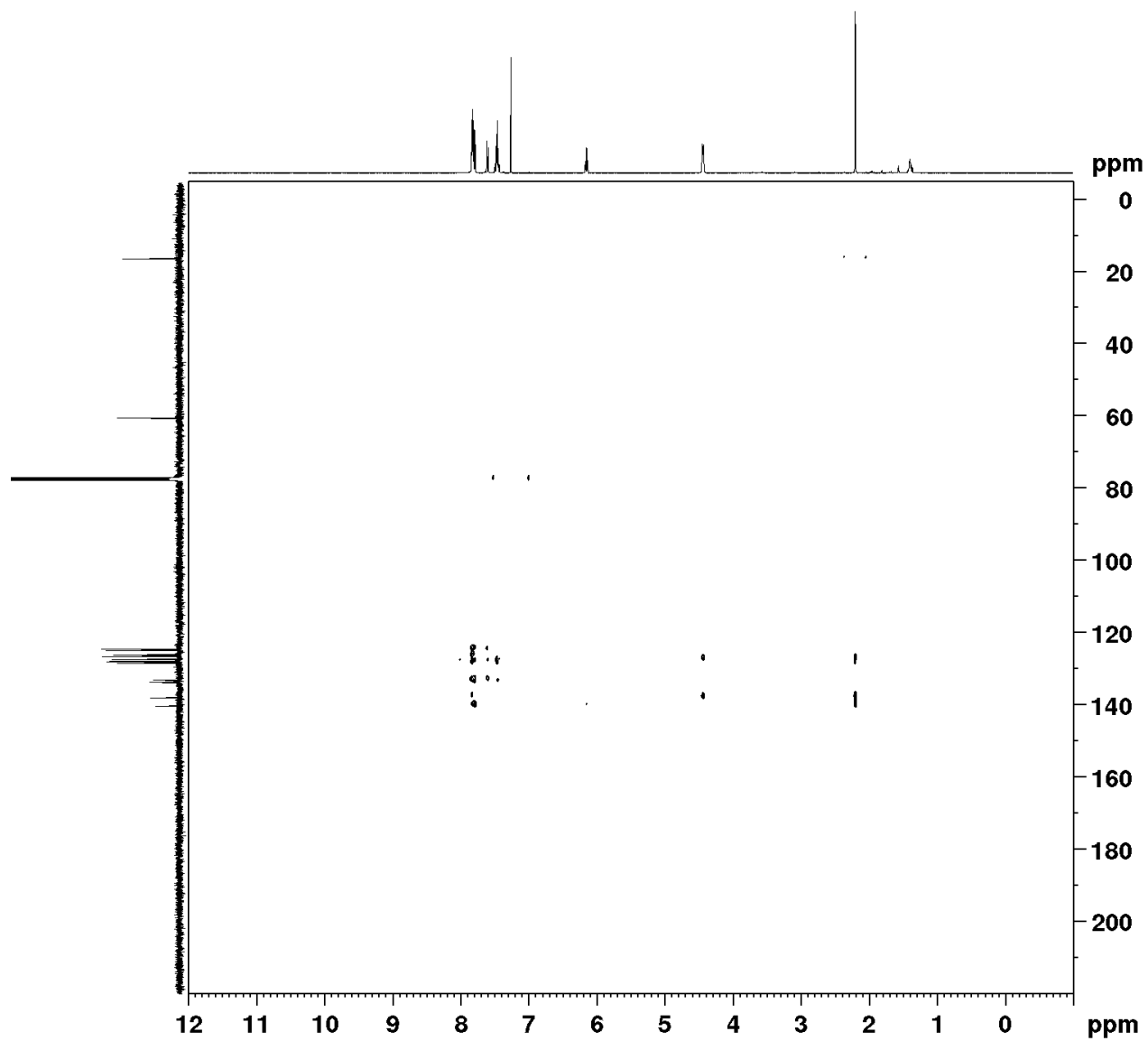
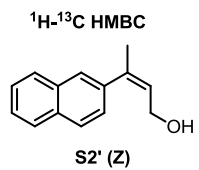


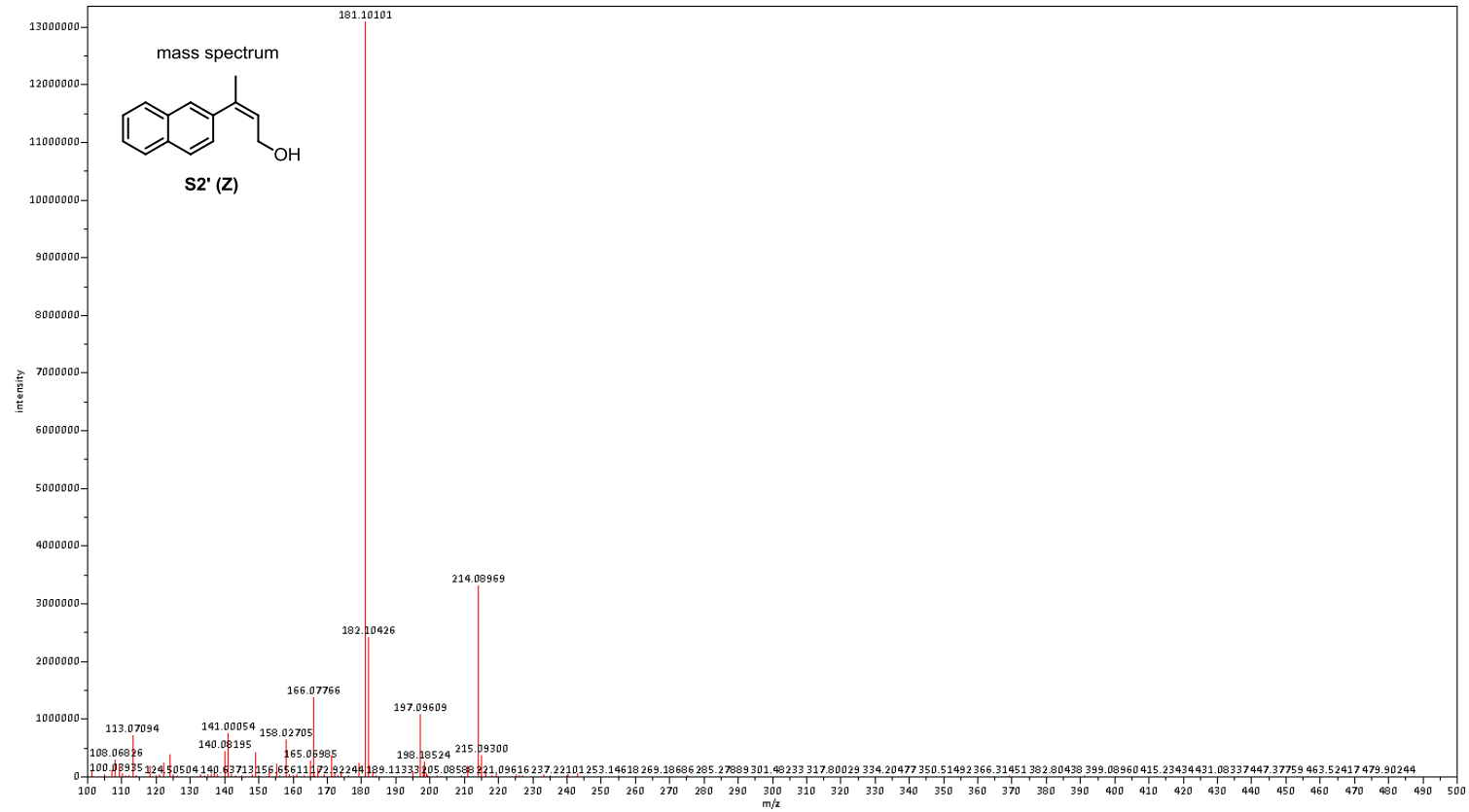


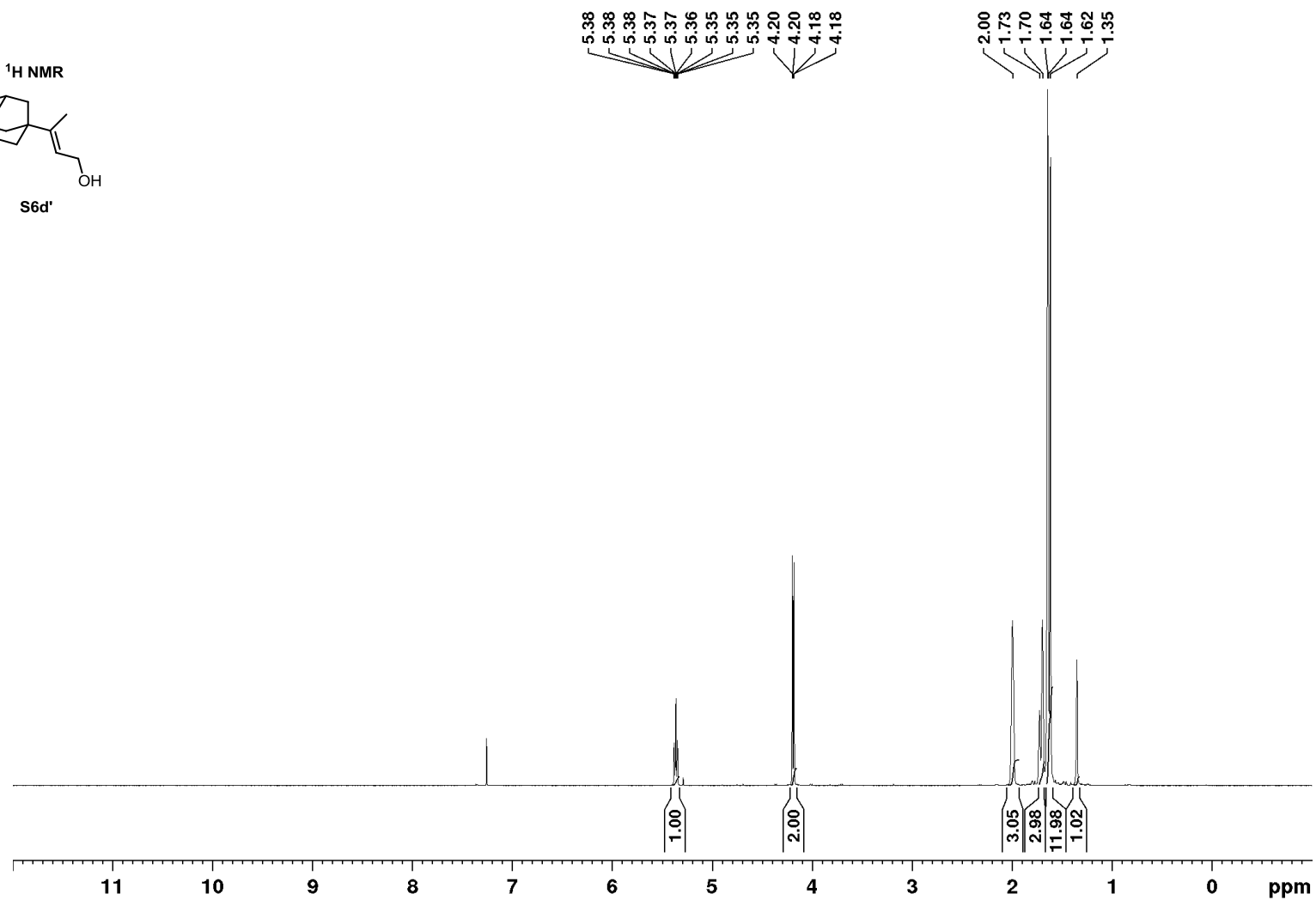
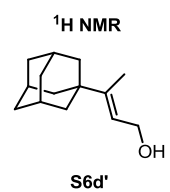




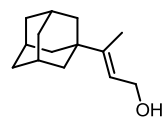




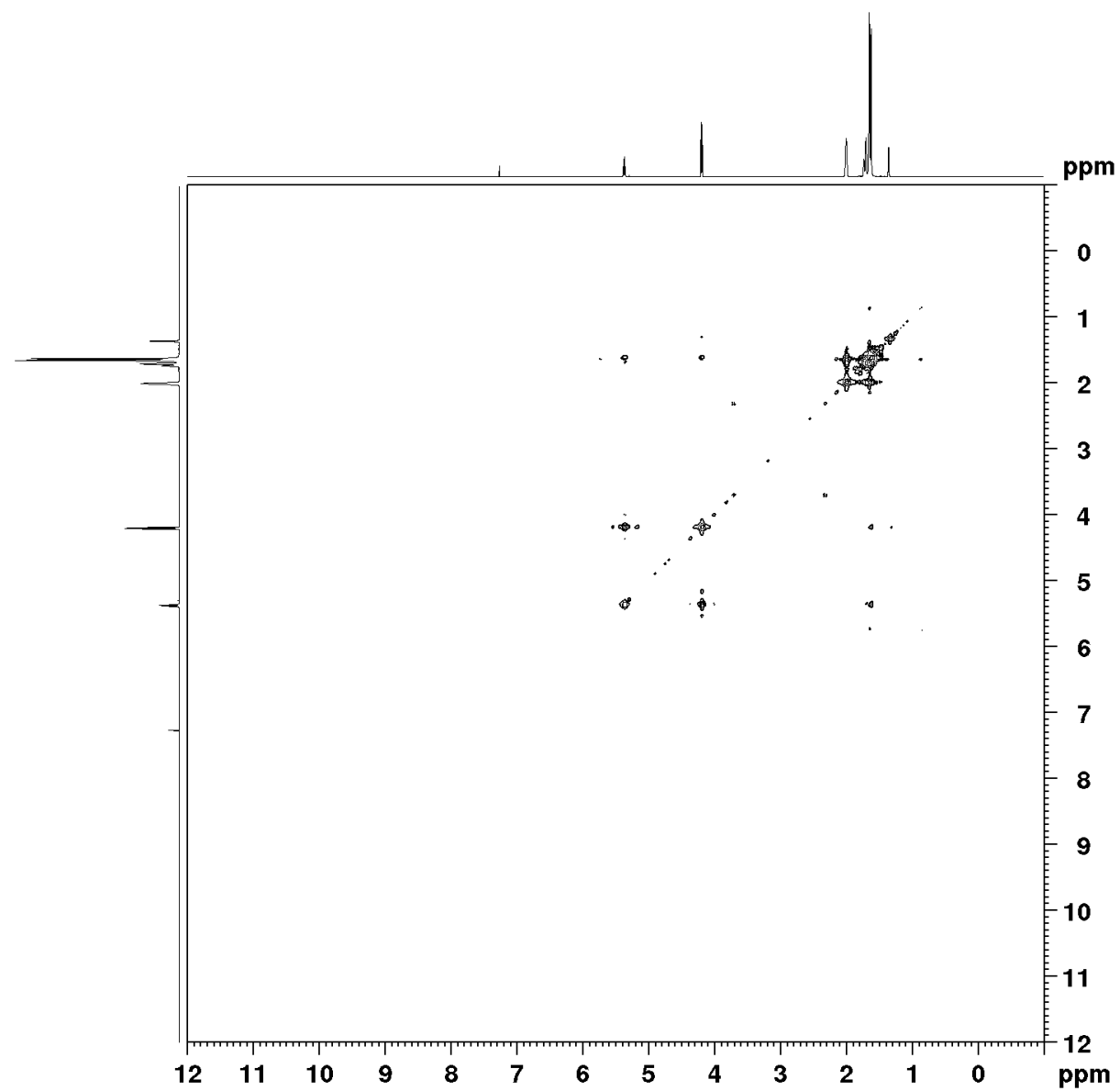




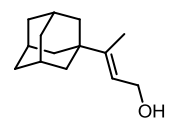
¹H-¹H COSY



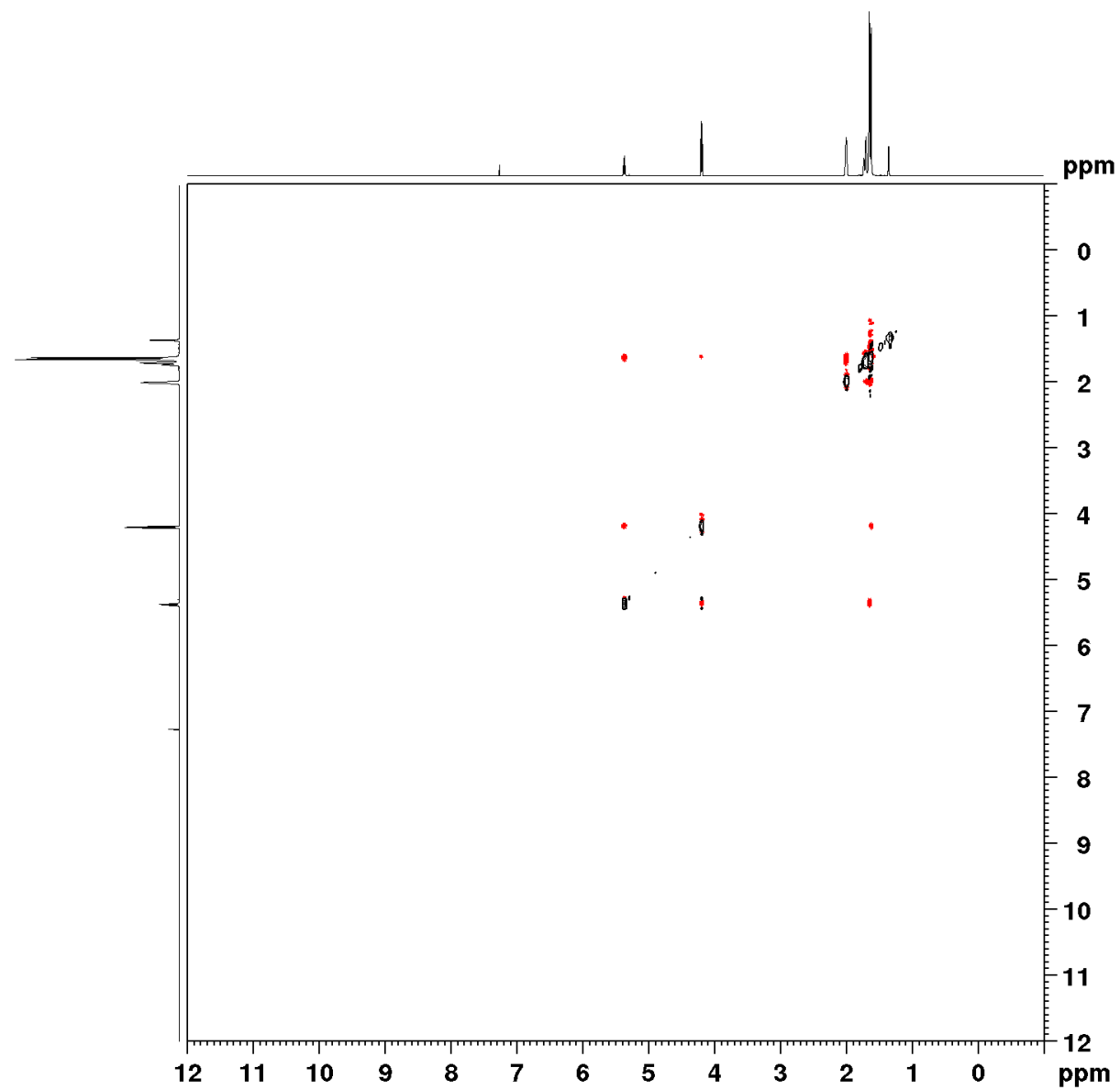
S6d'

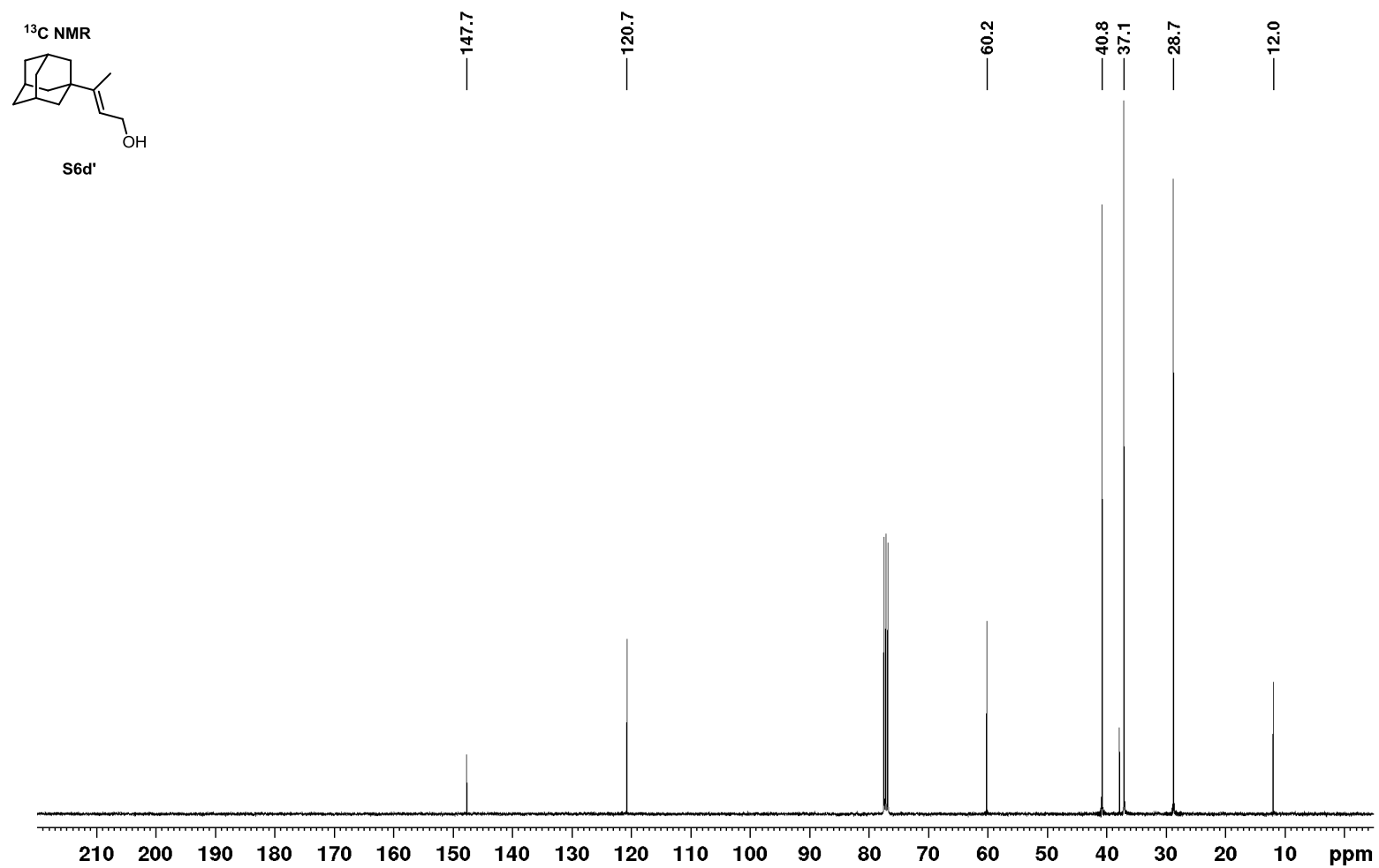


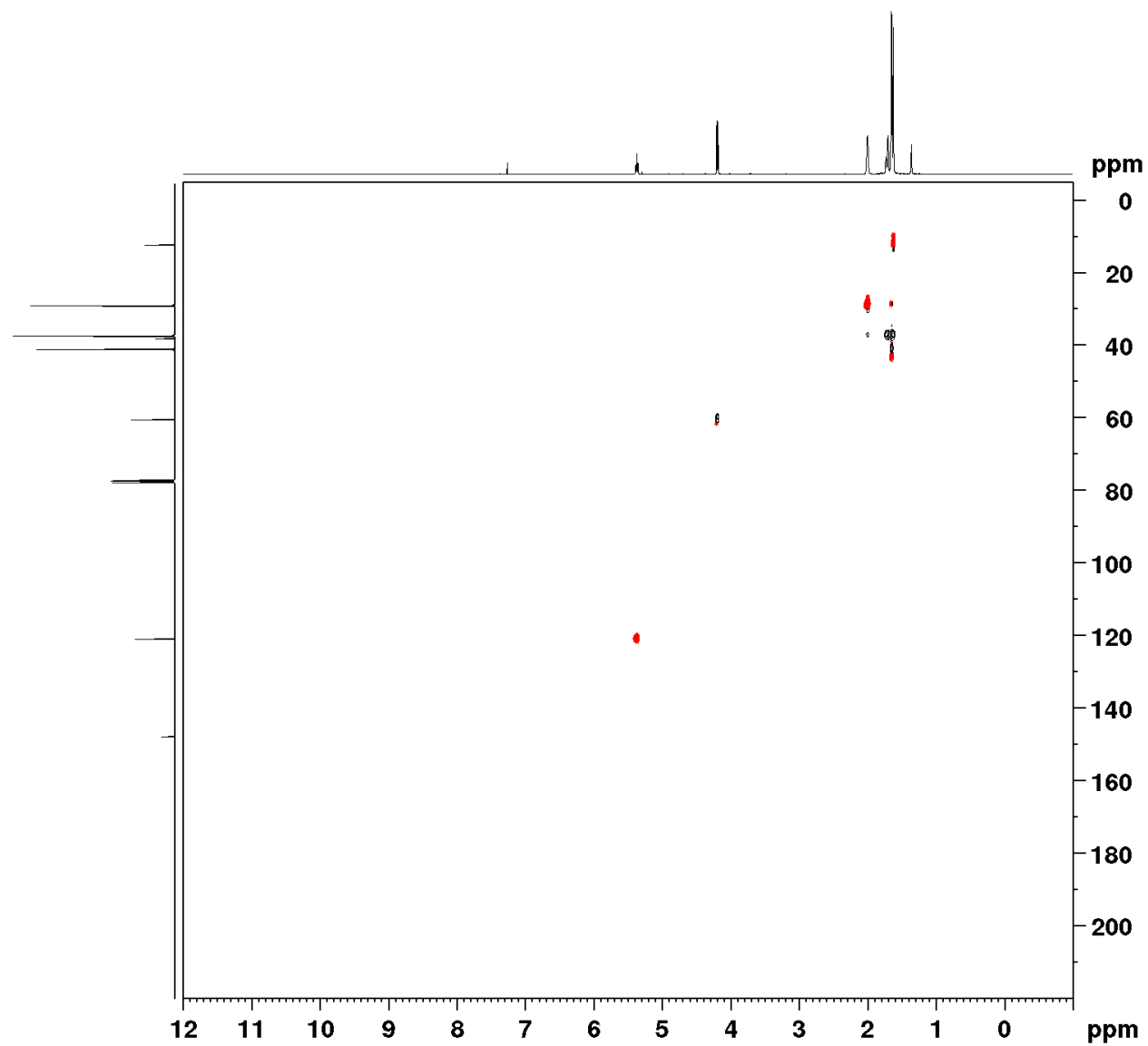
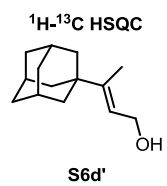
¹H-¹H NOESY

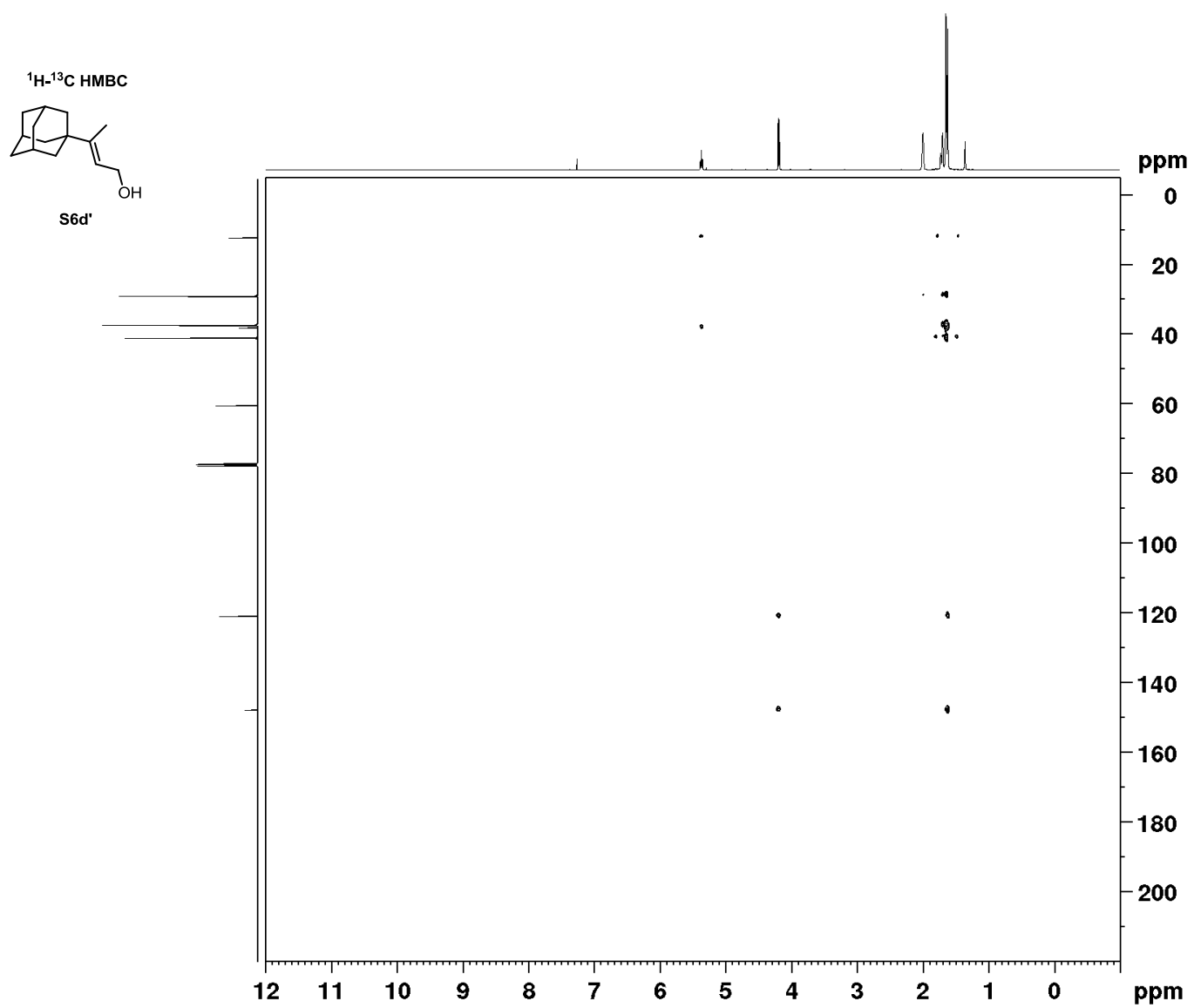


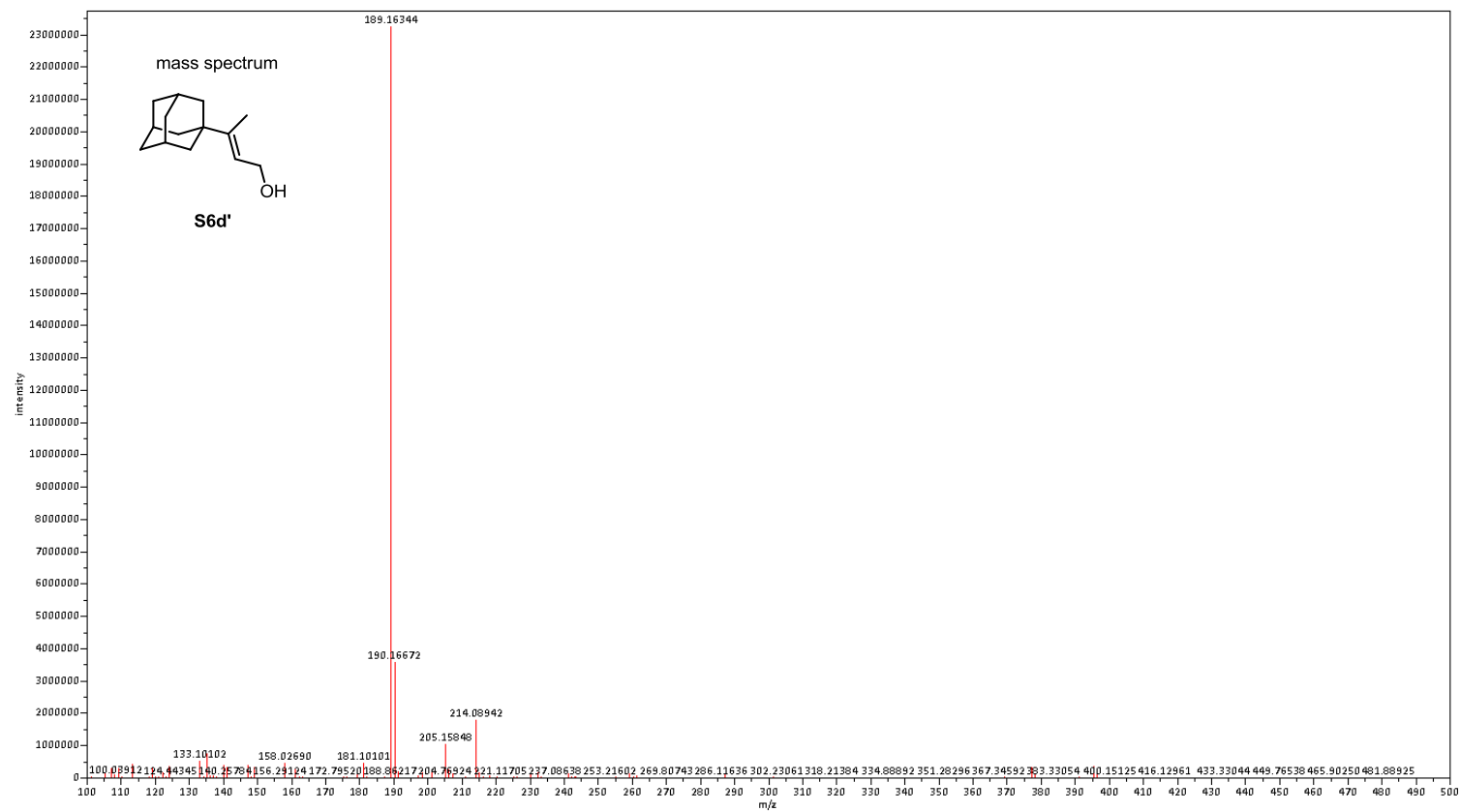
S6d'

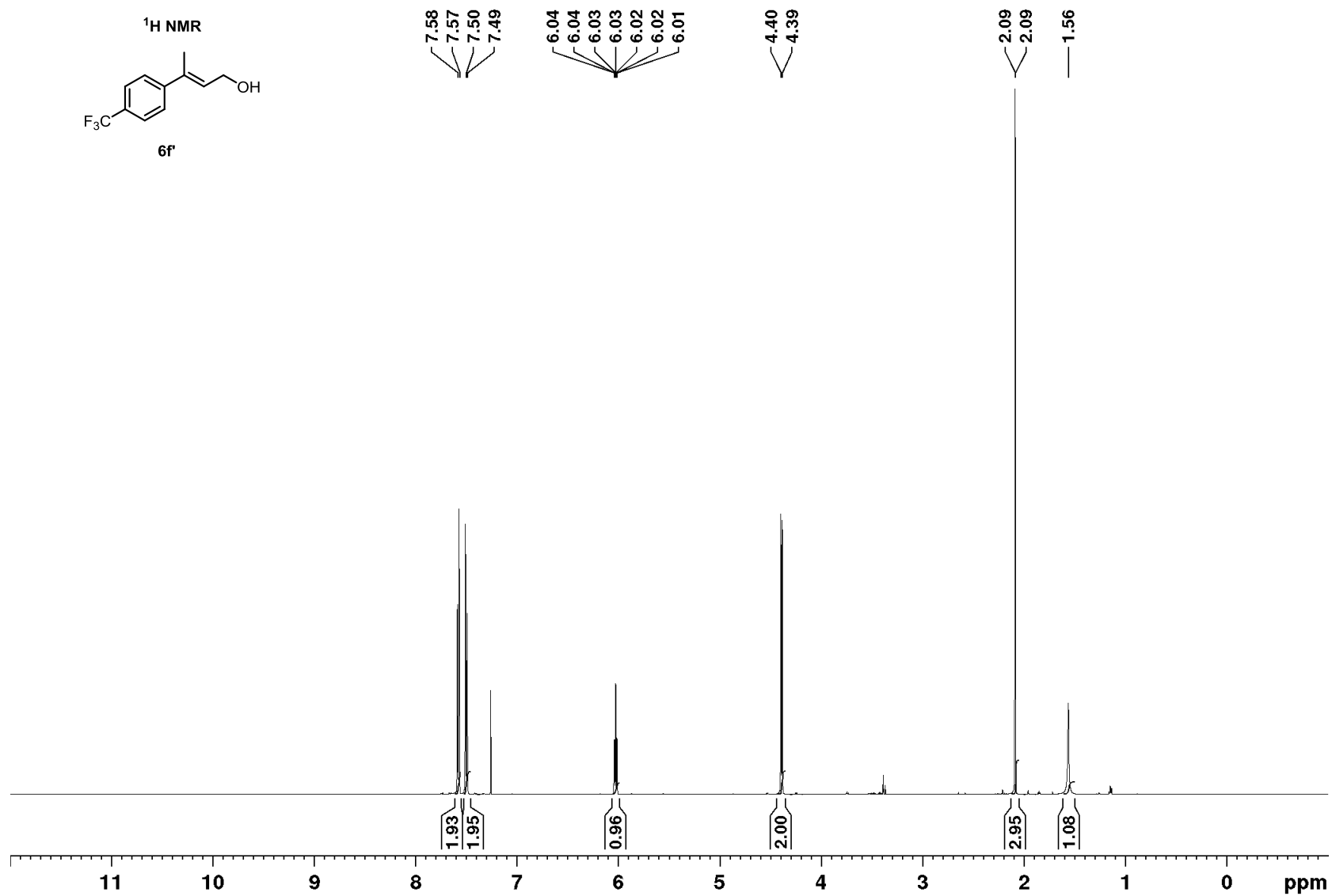


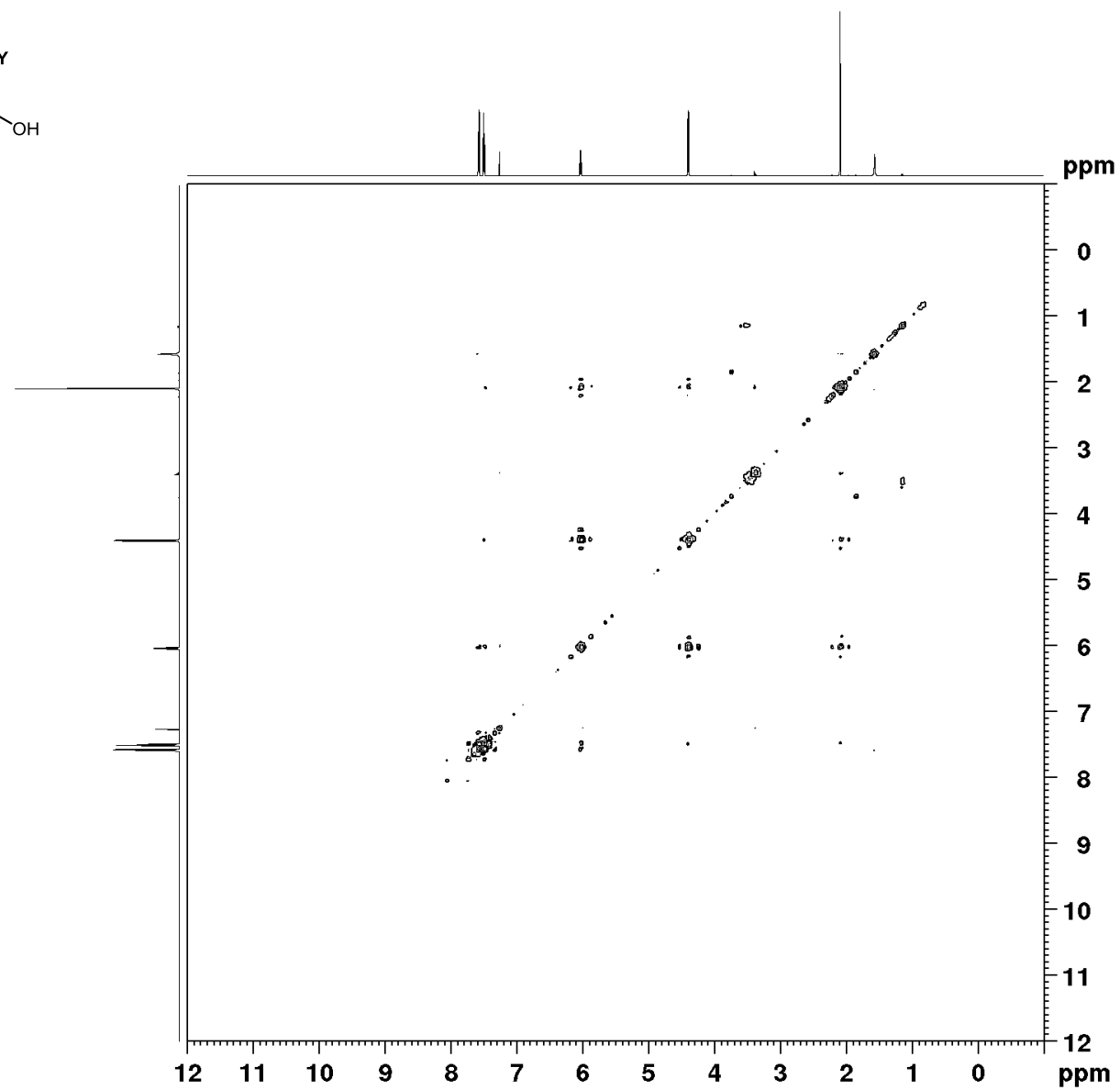
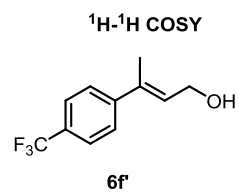


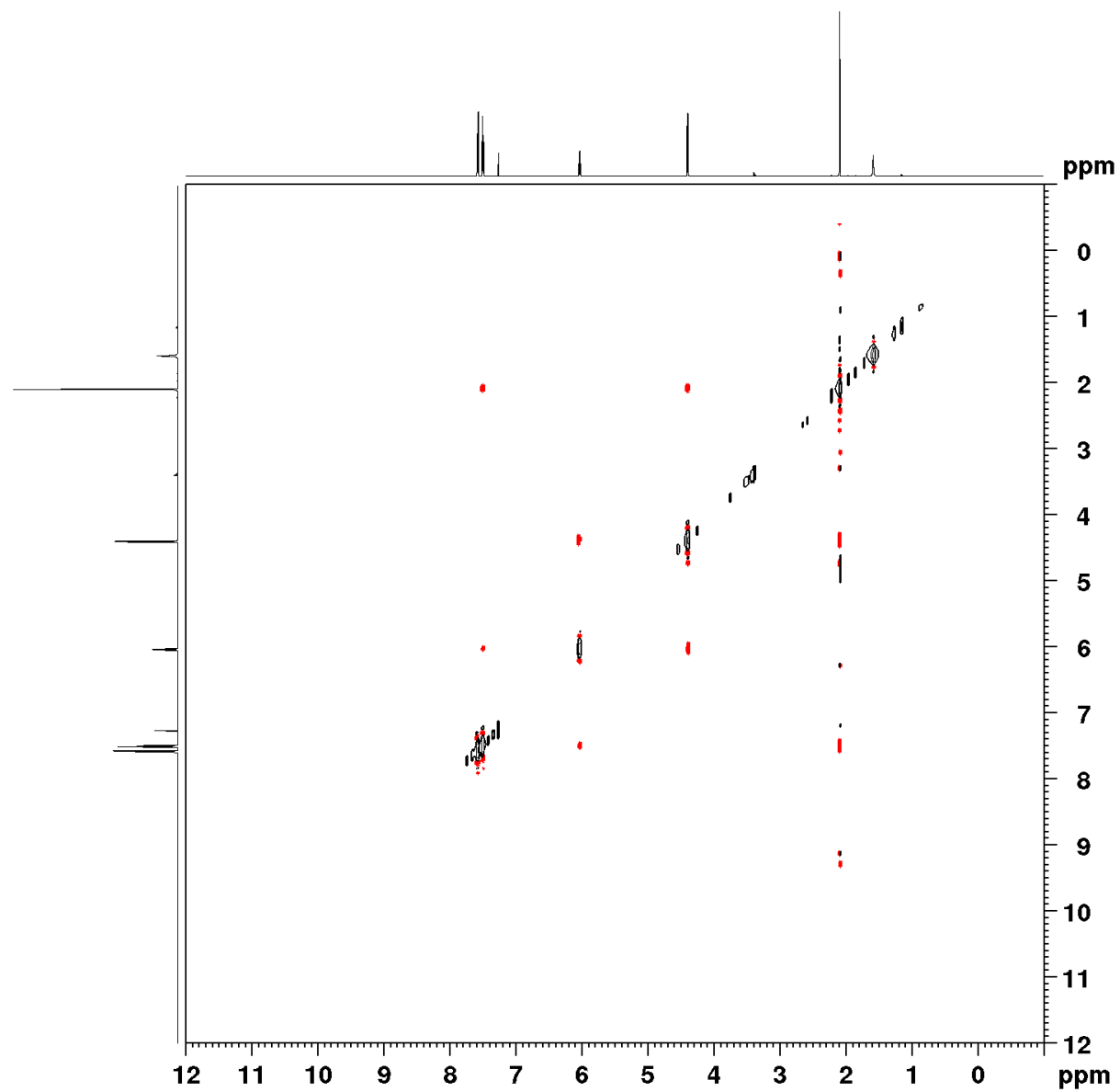
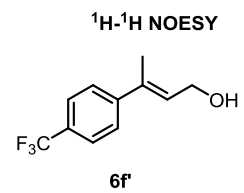


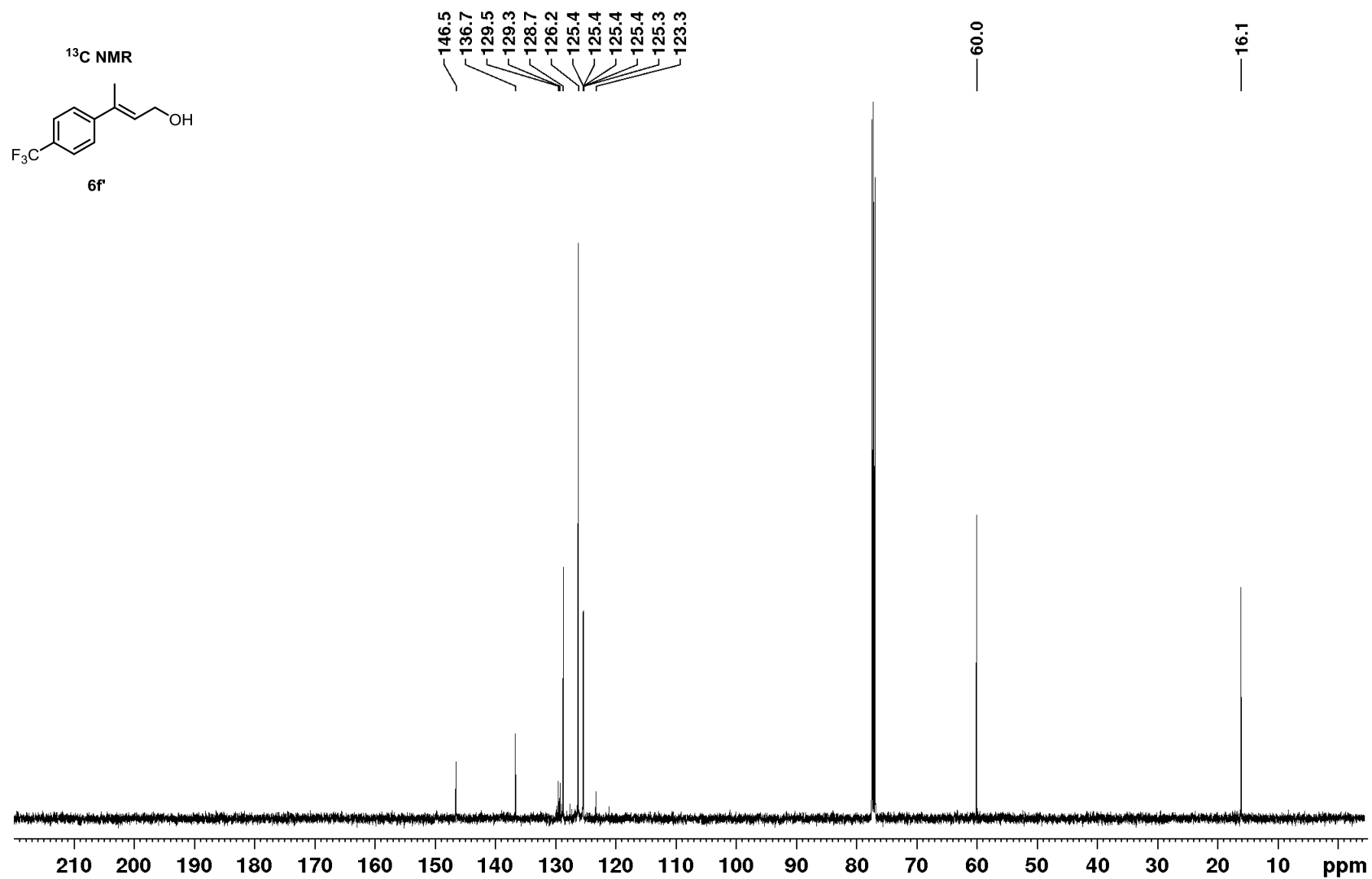


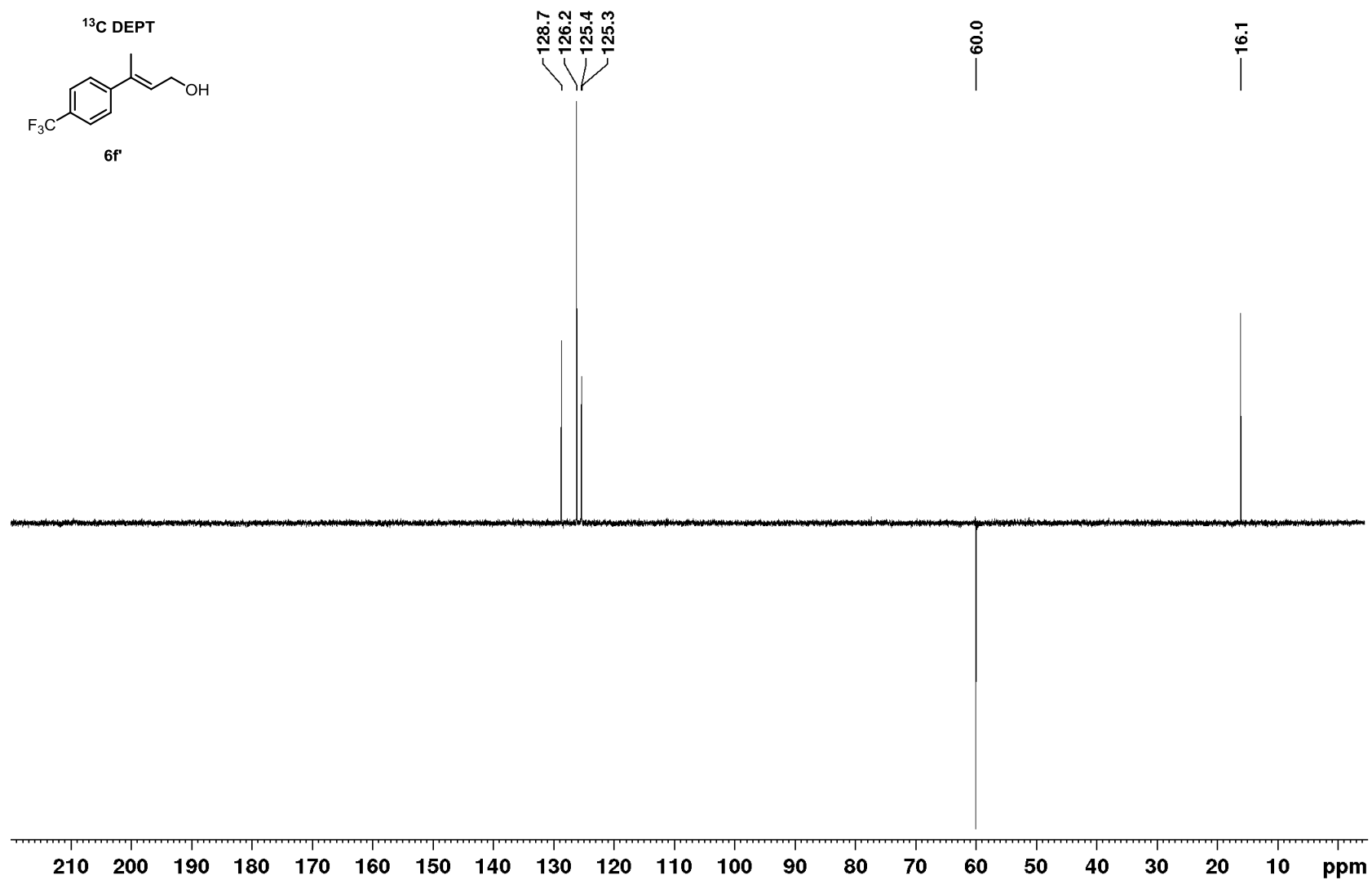


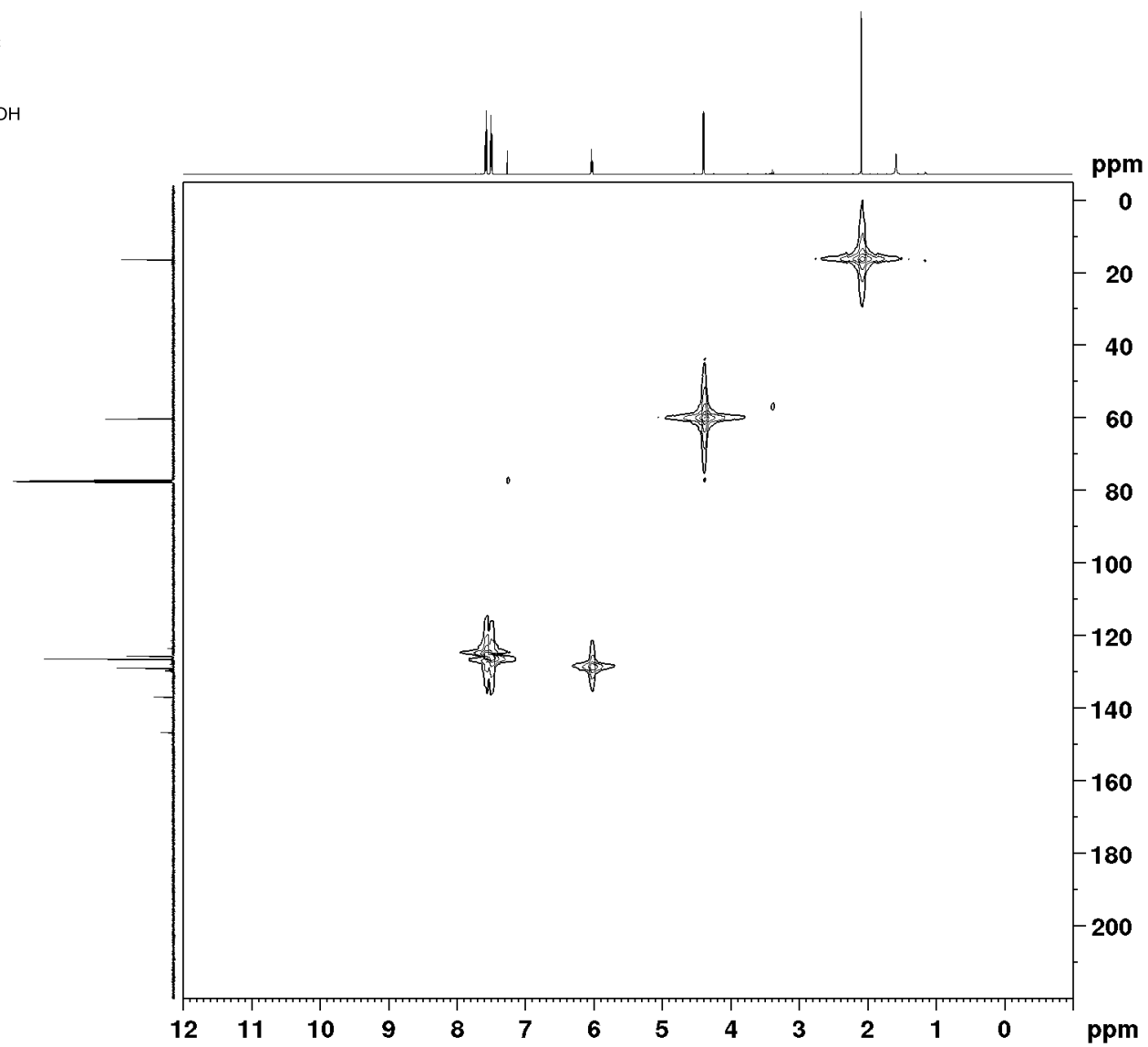
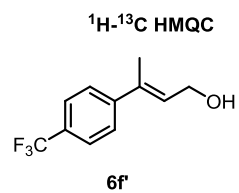


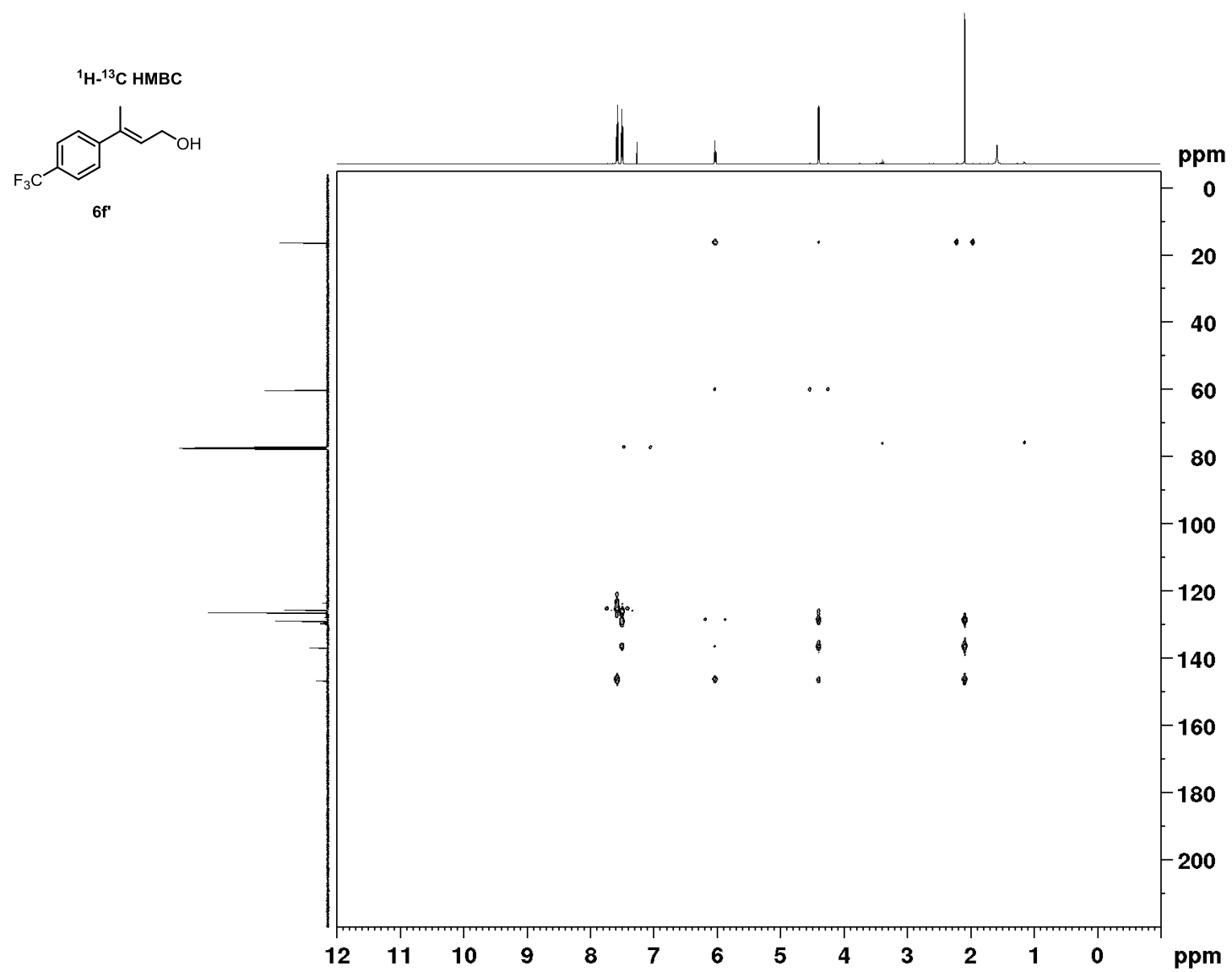


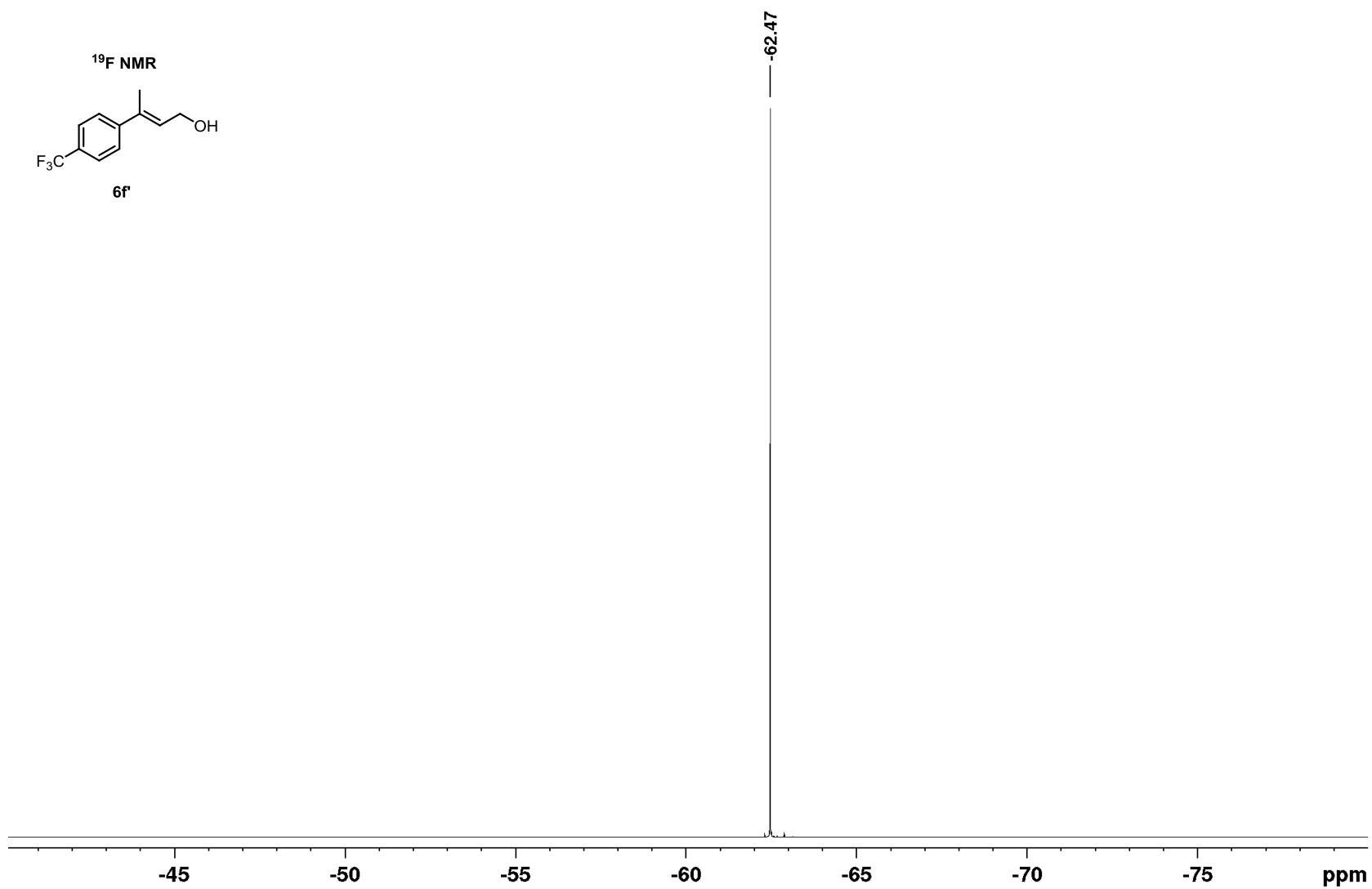


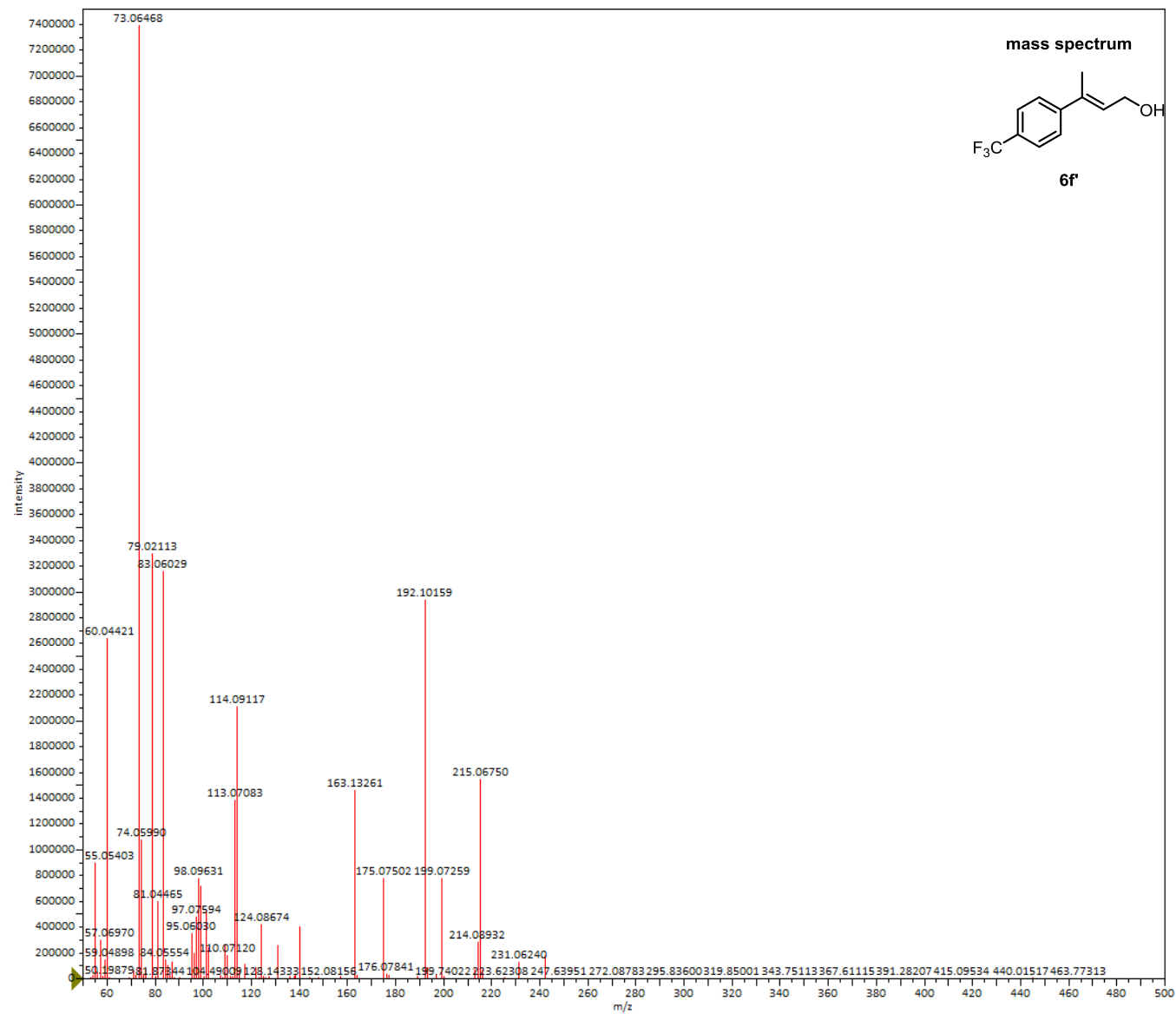


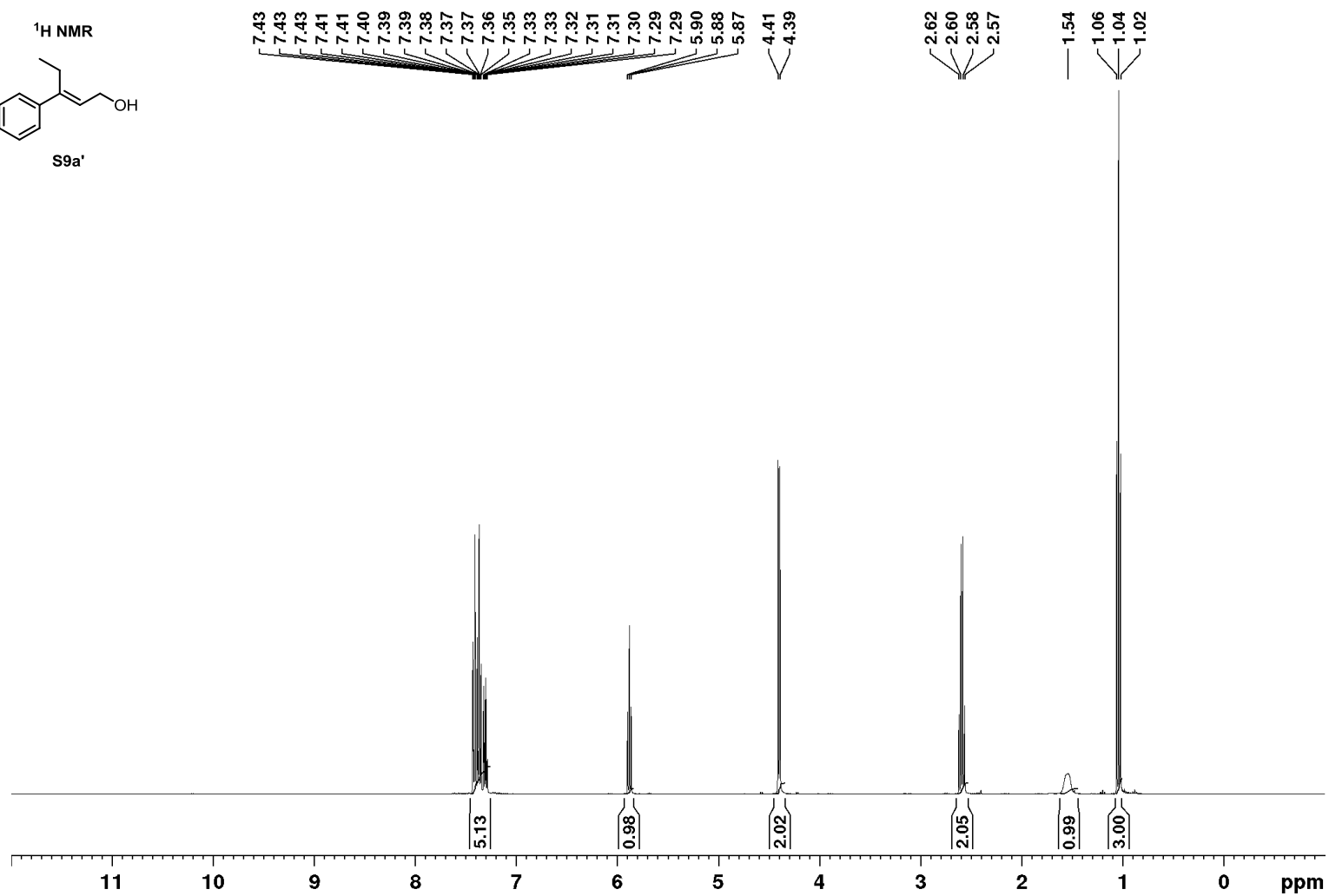


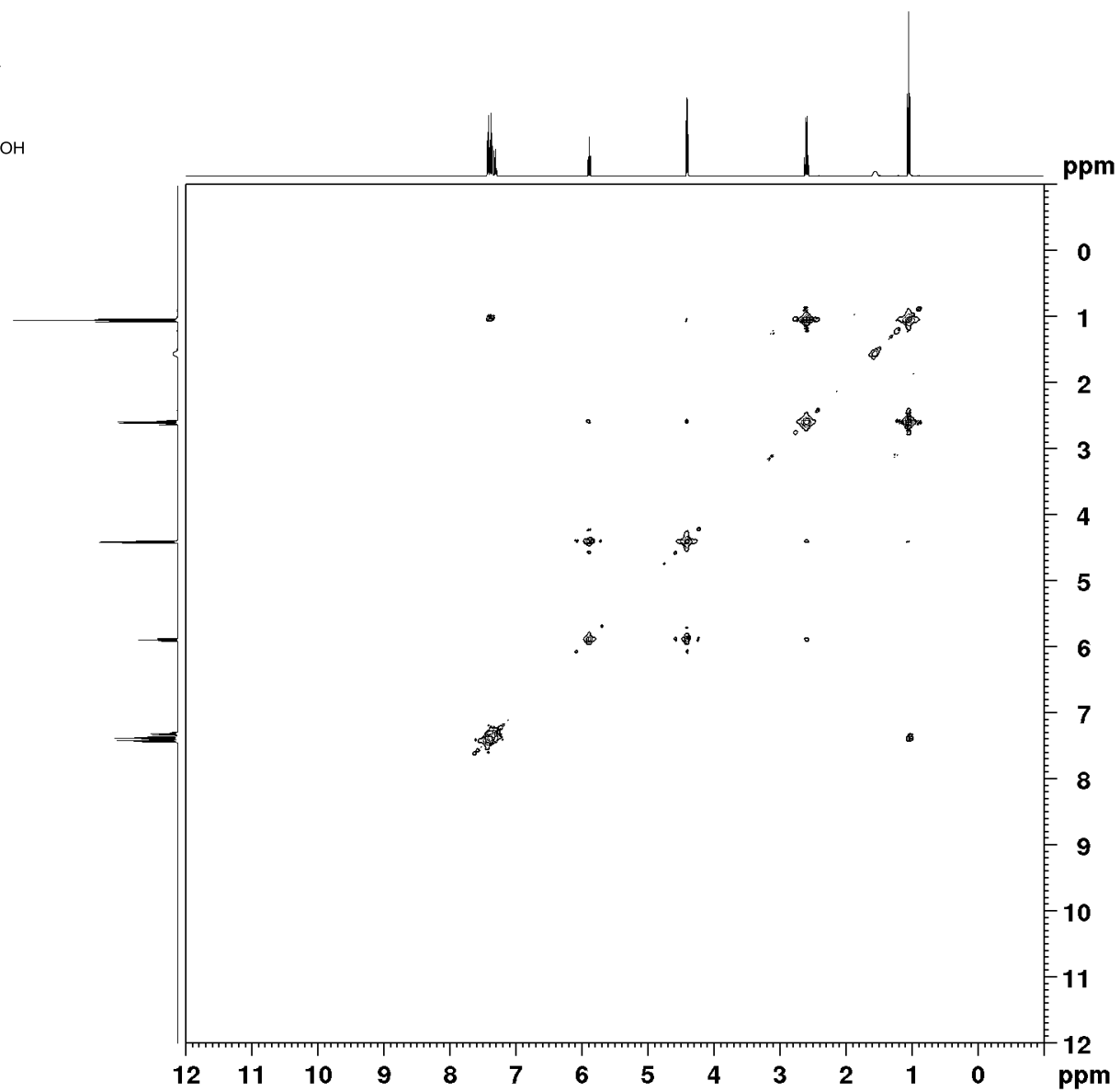


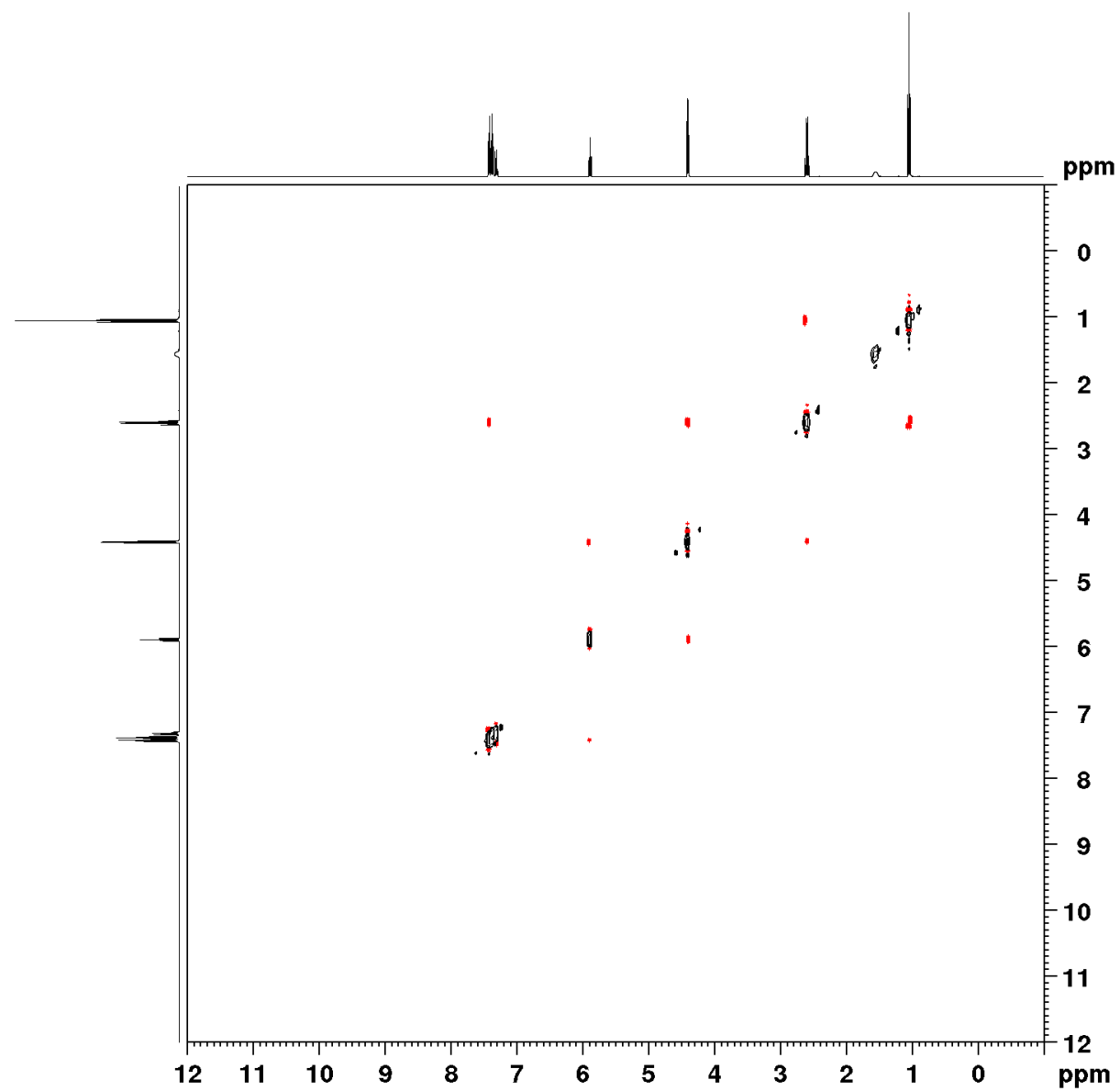
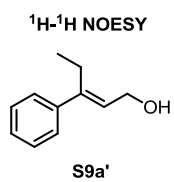


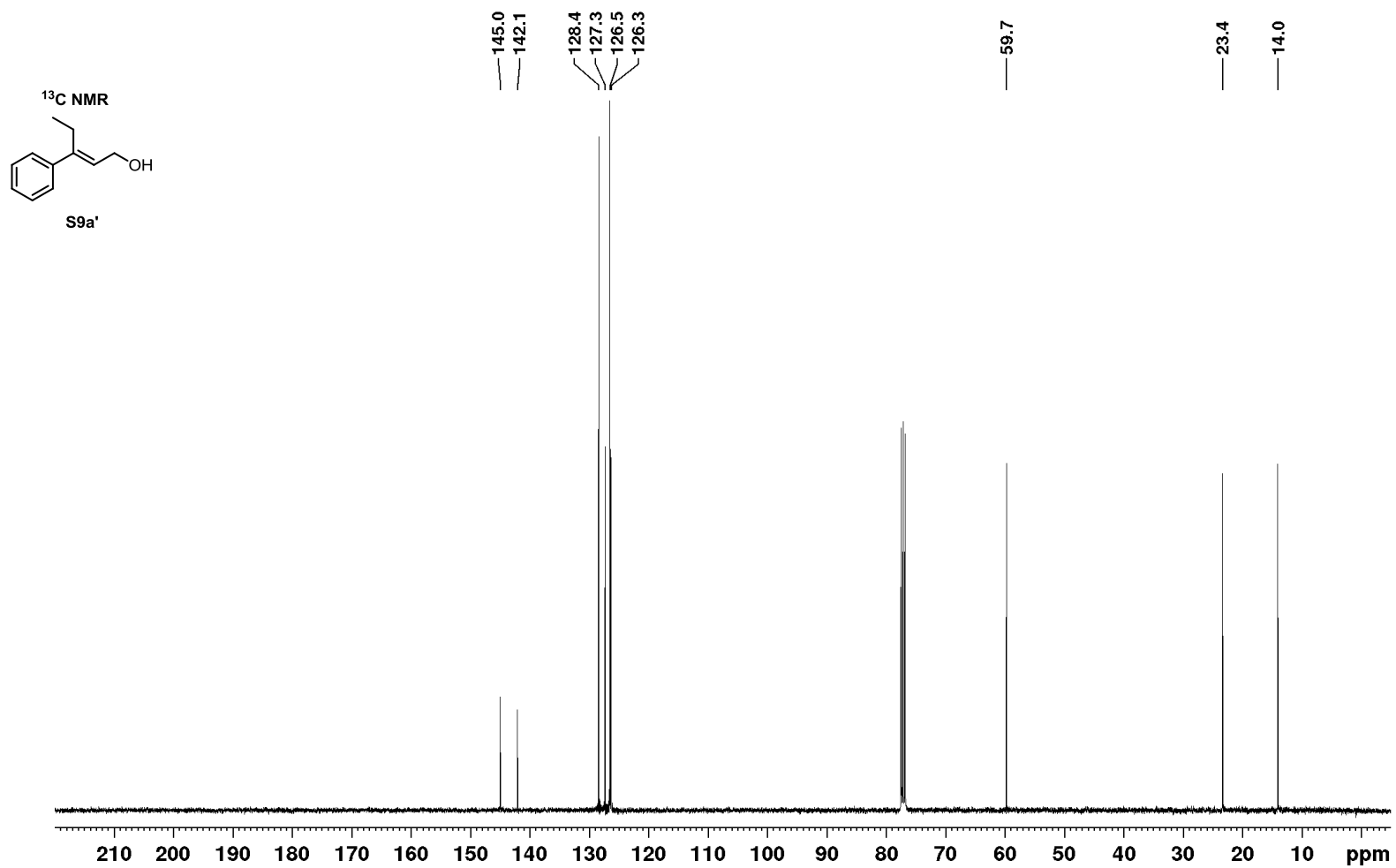


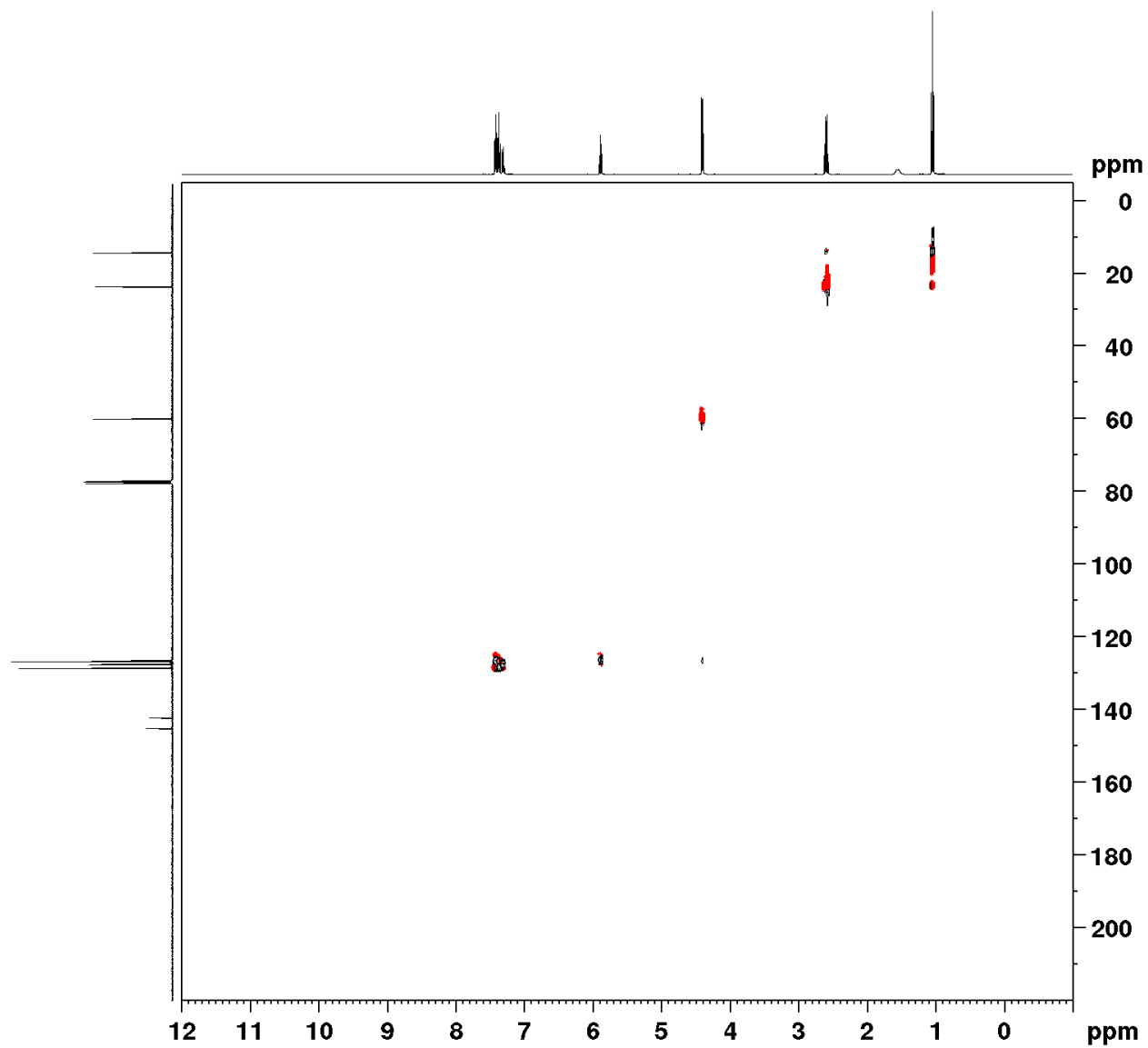
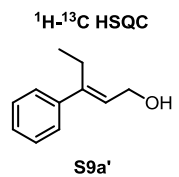


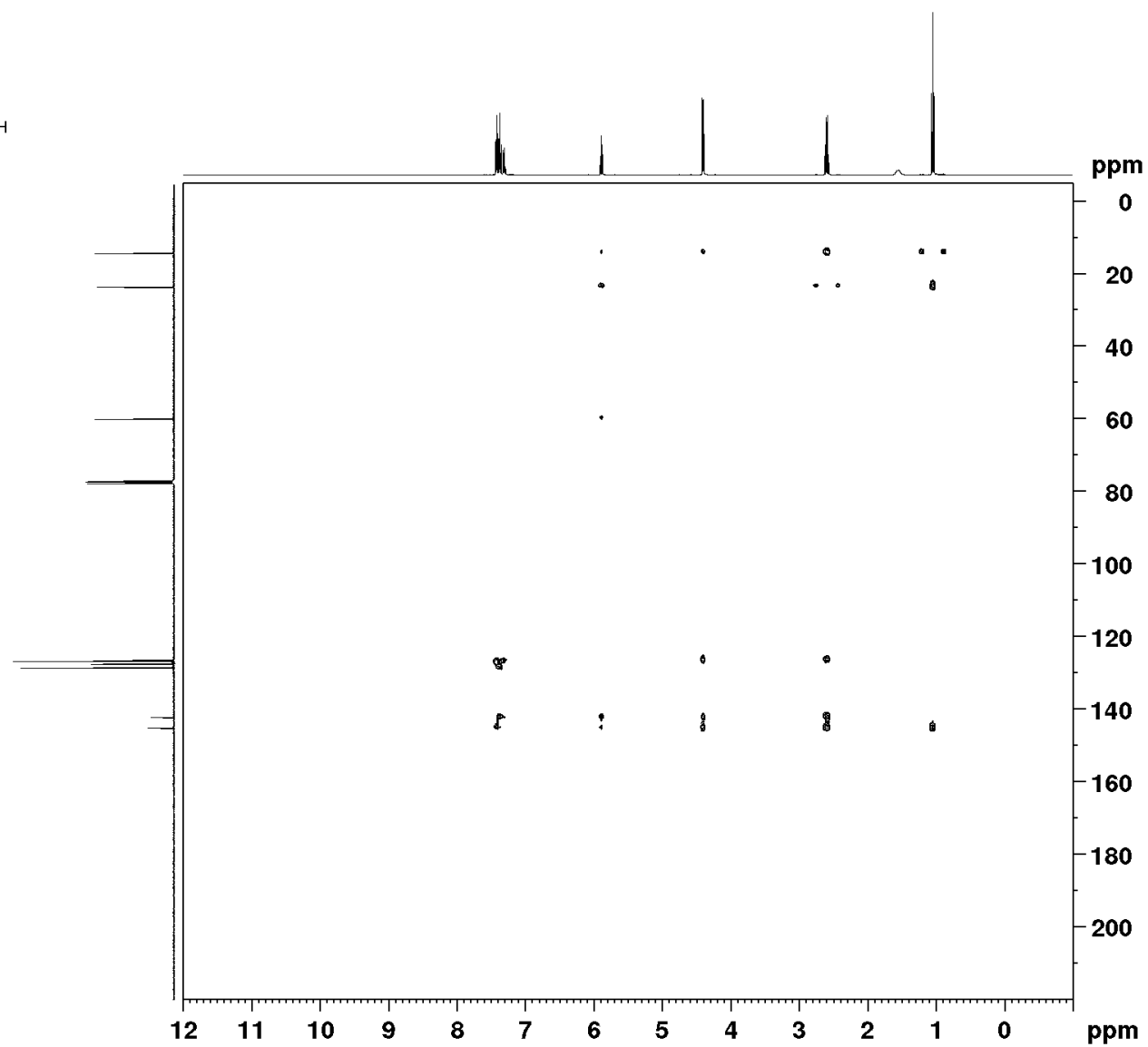
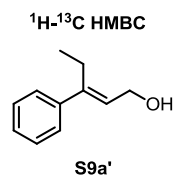


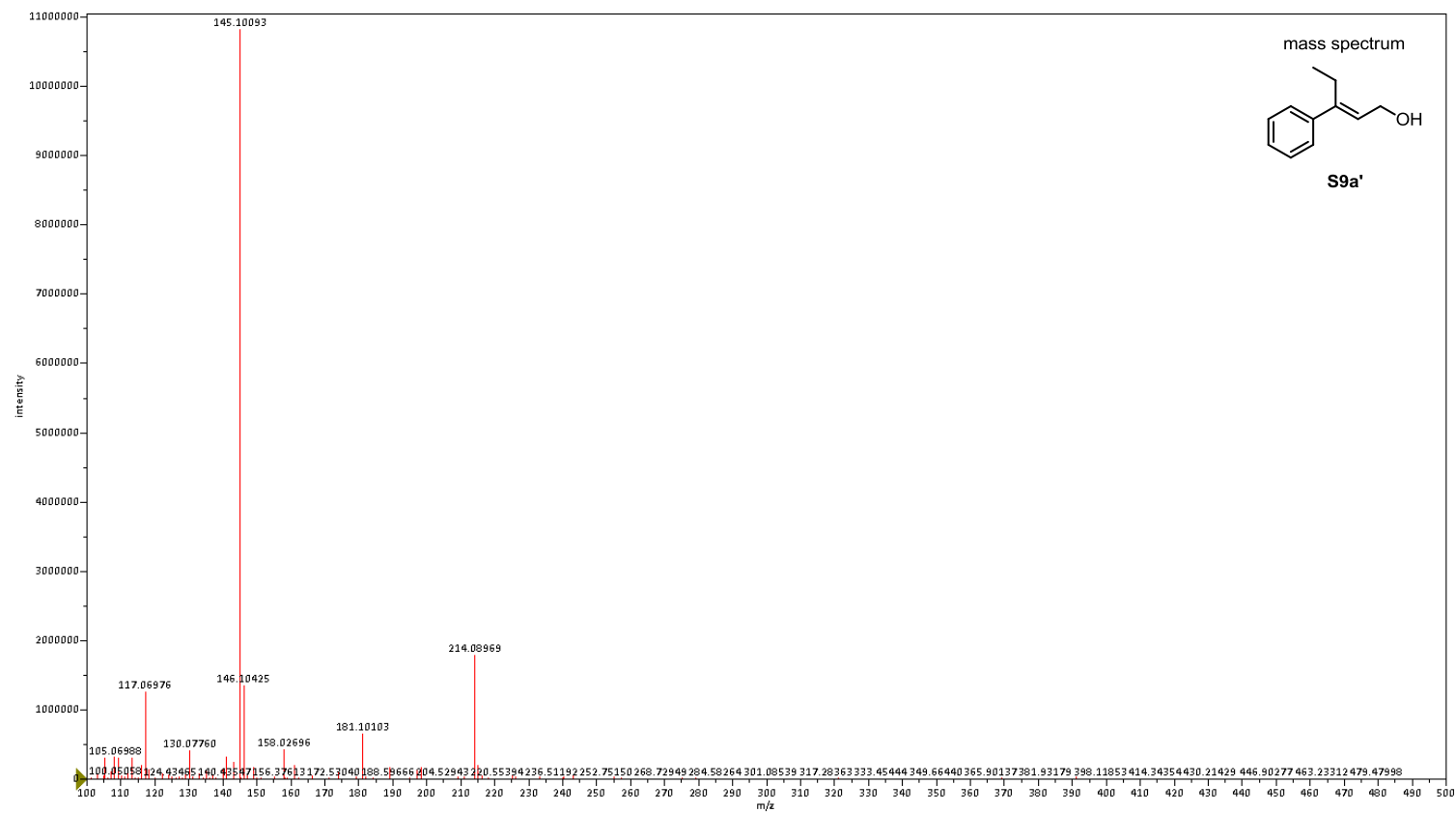


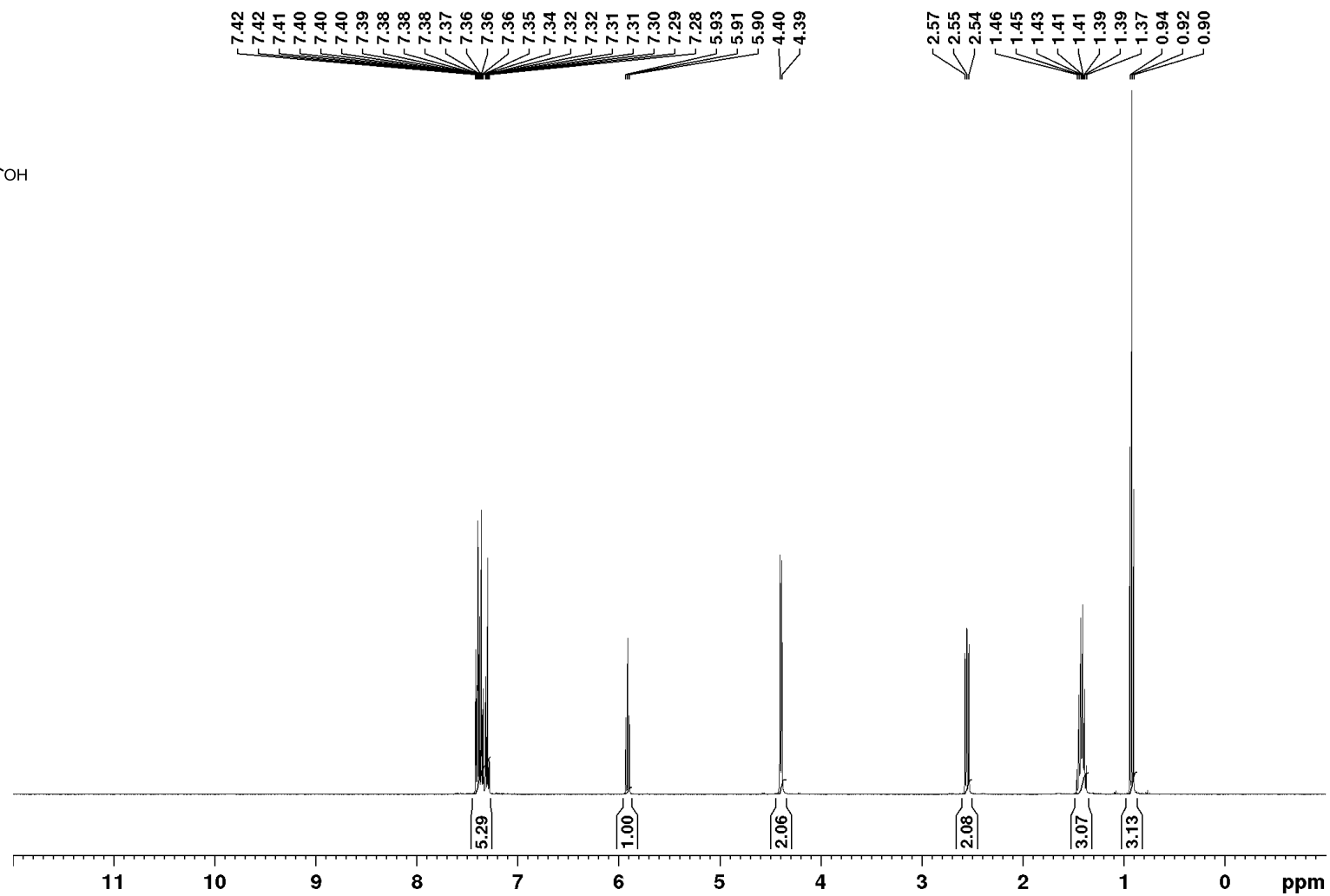
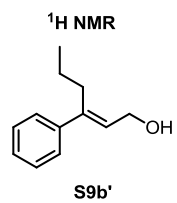


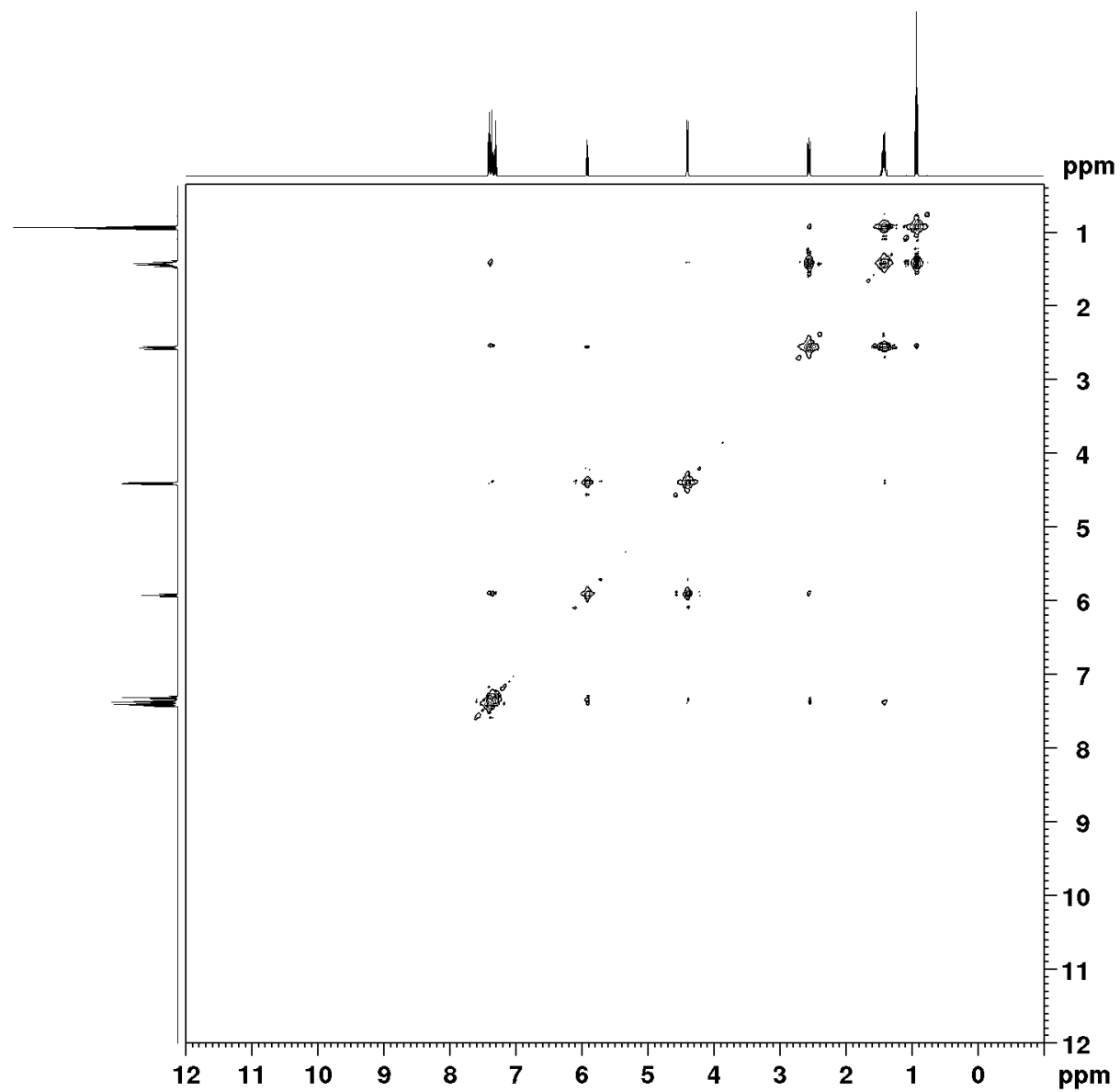
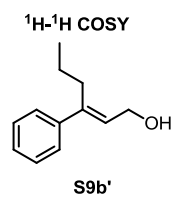


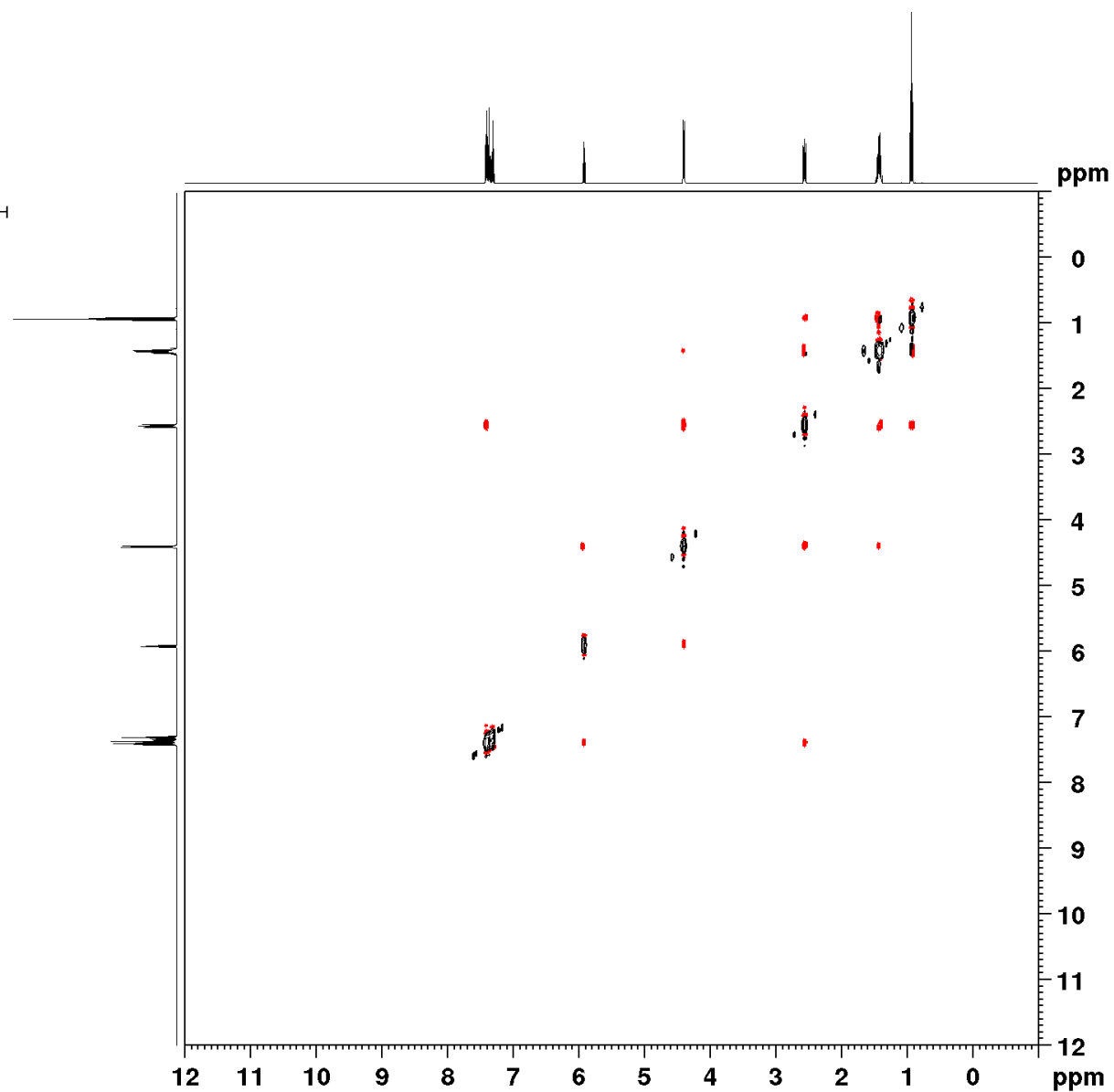
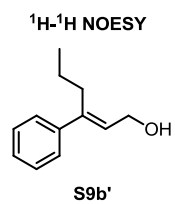


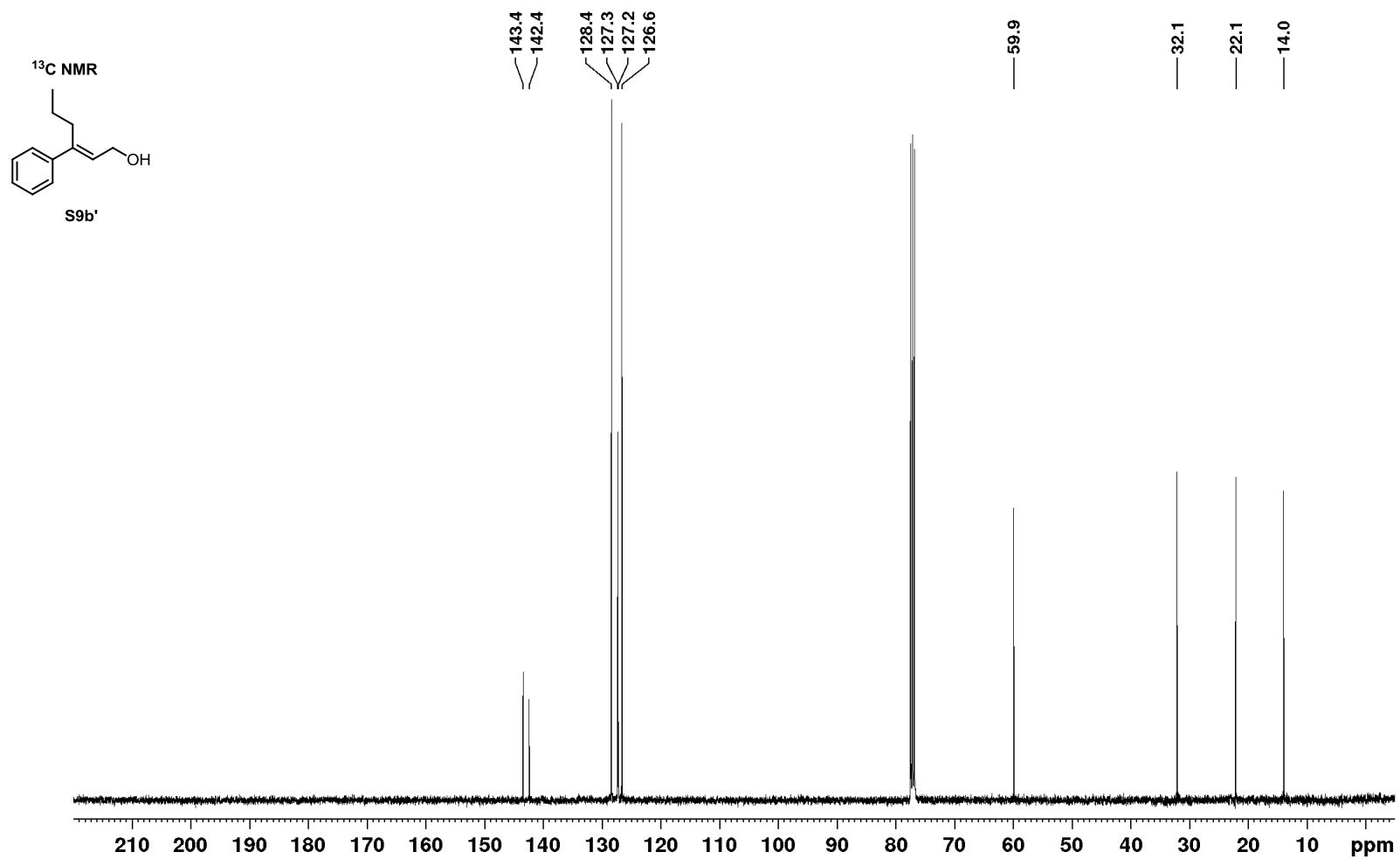




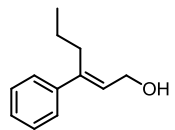




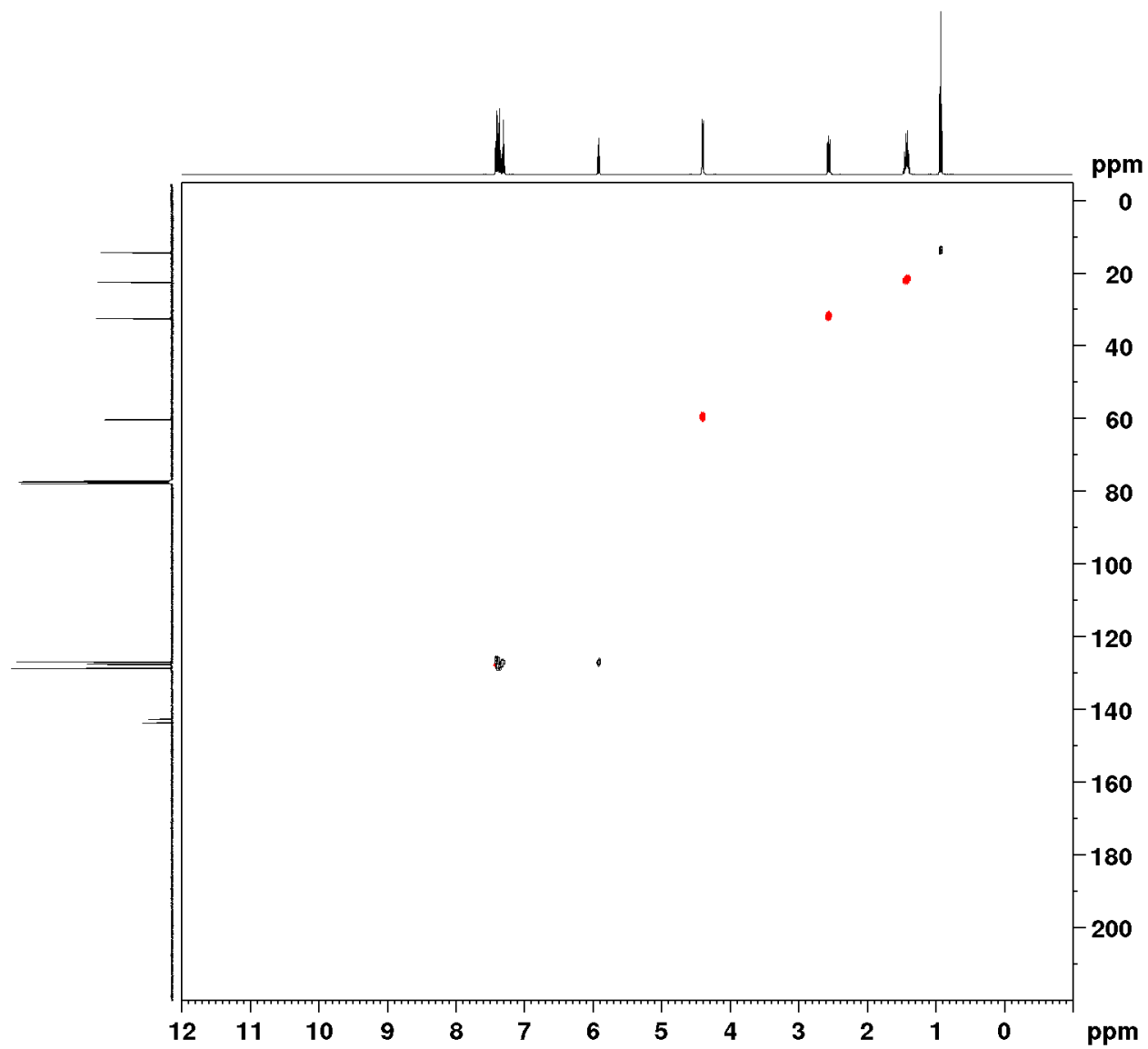


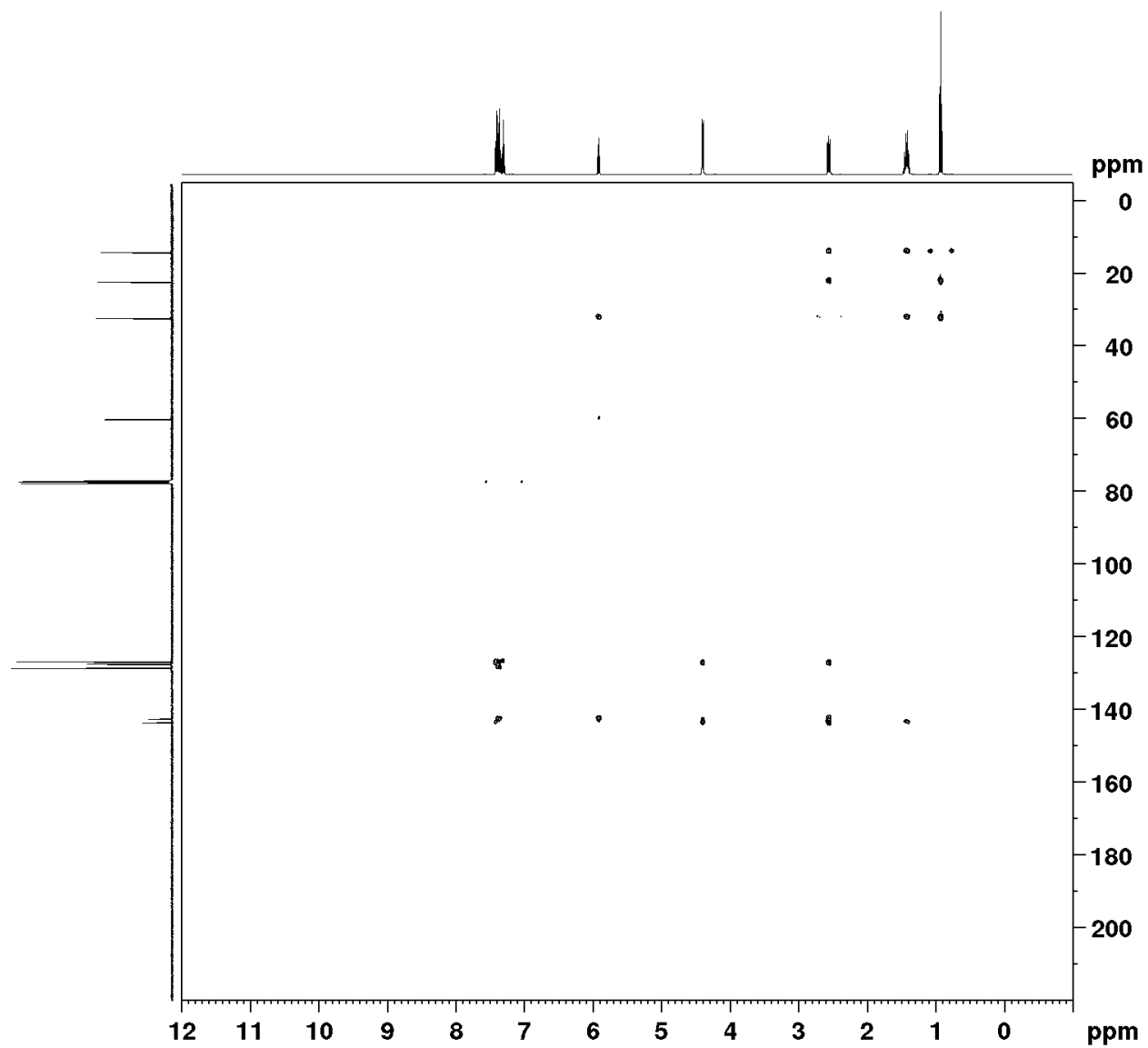
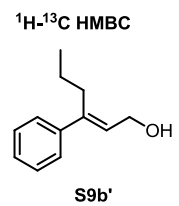


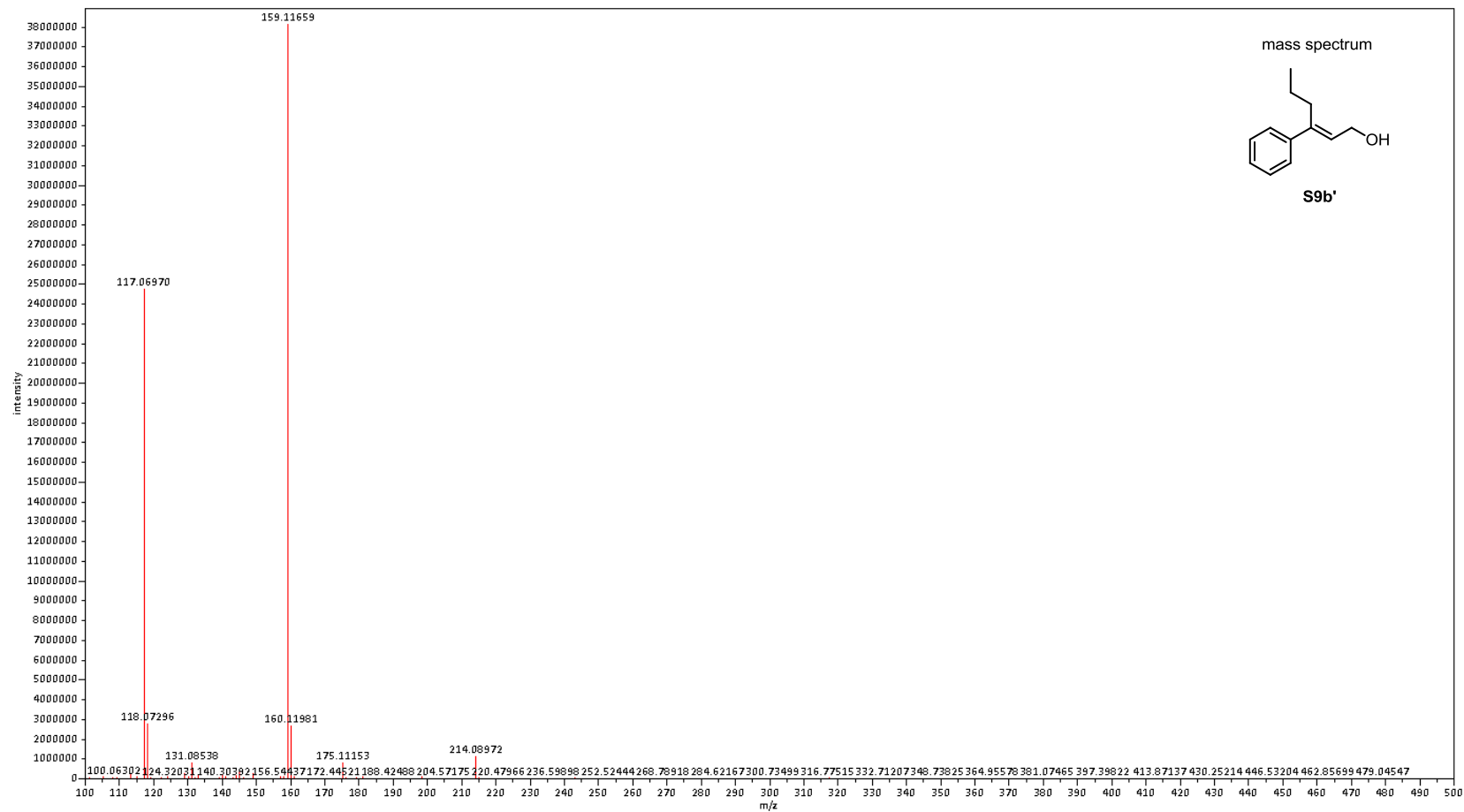
¹H-¹³C HSQC

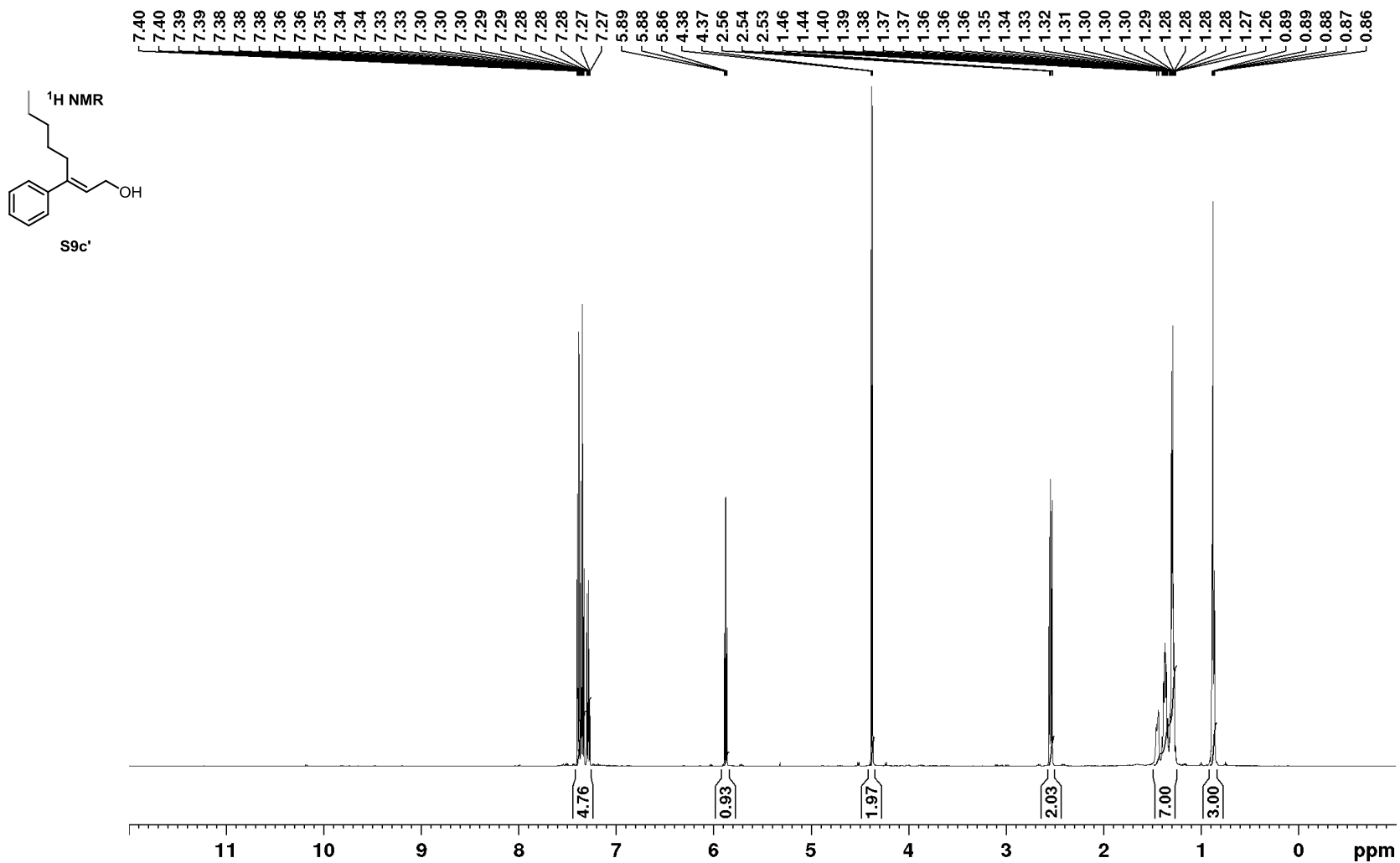


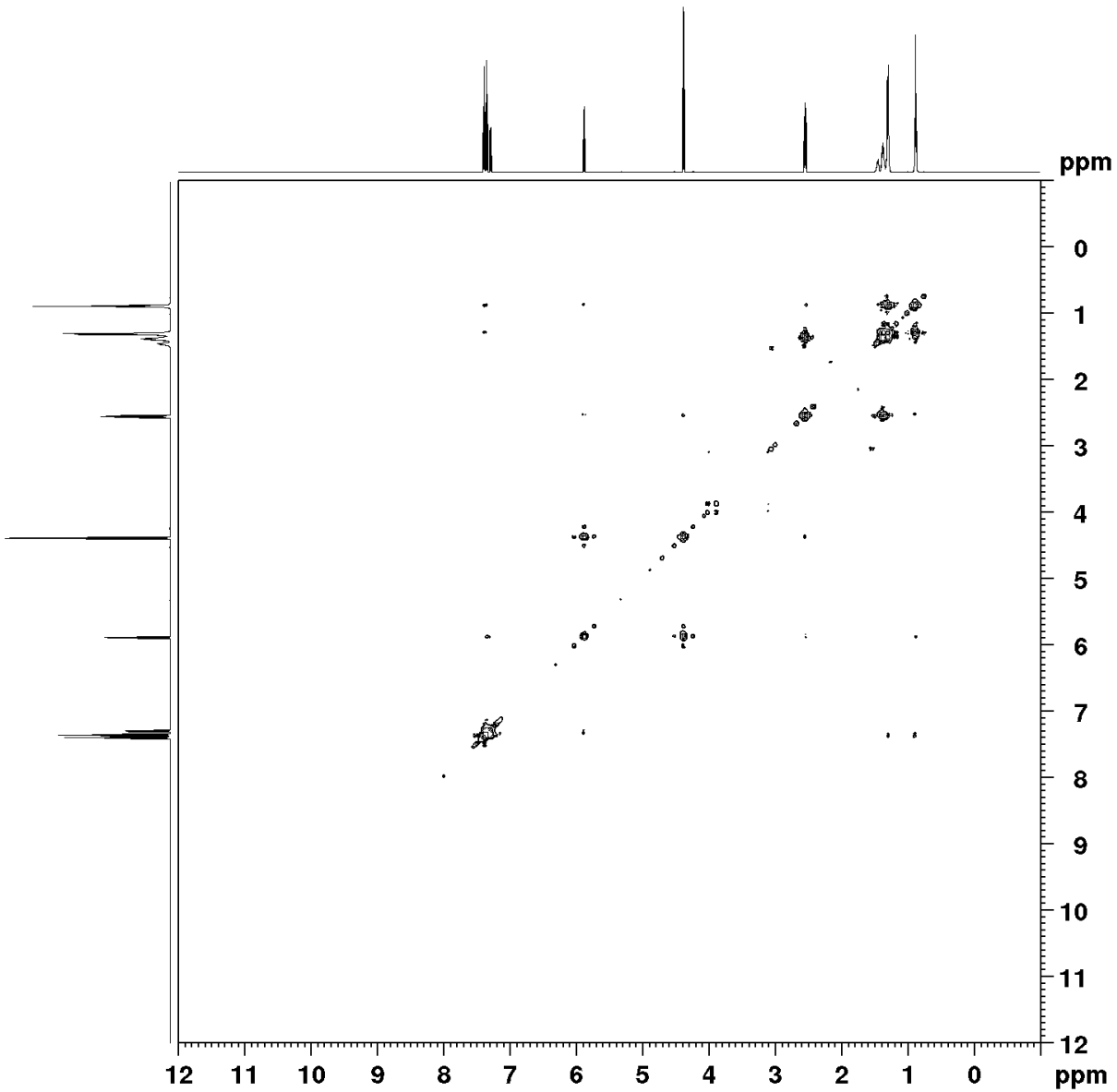
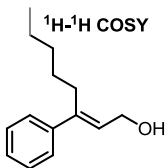
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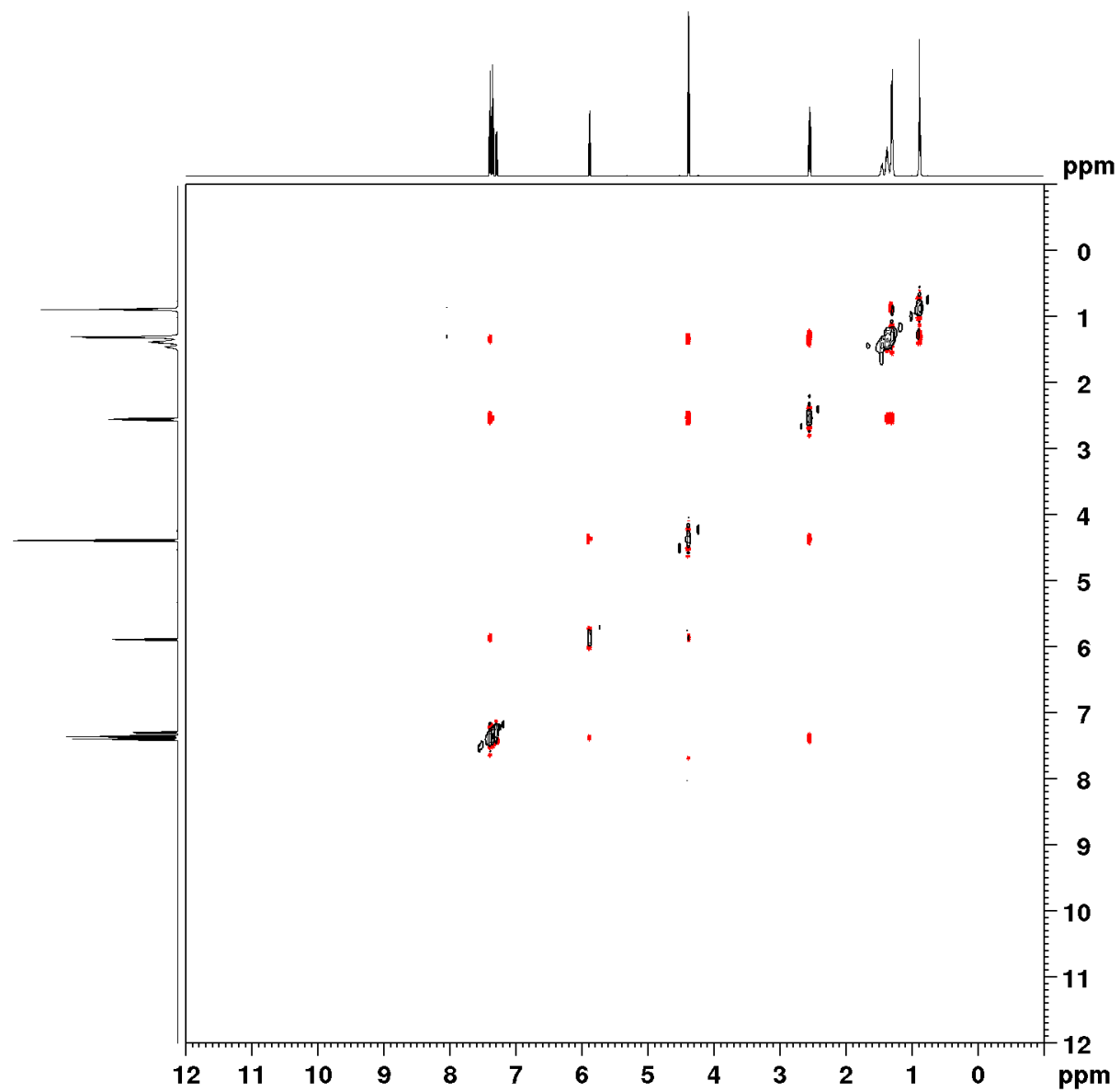
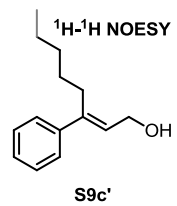


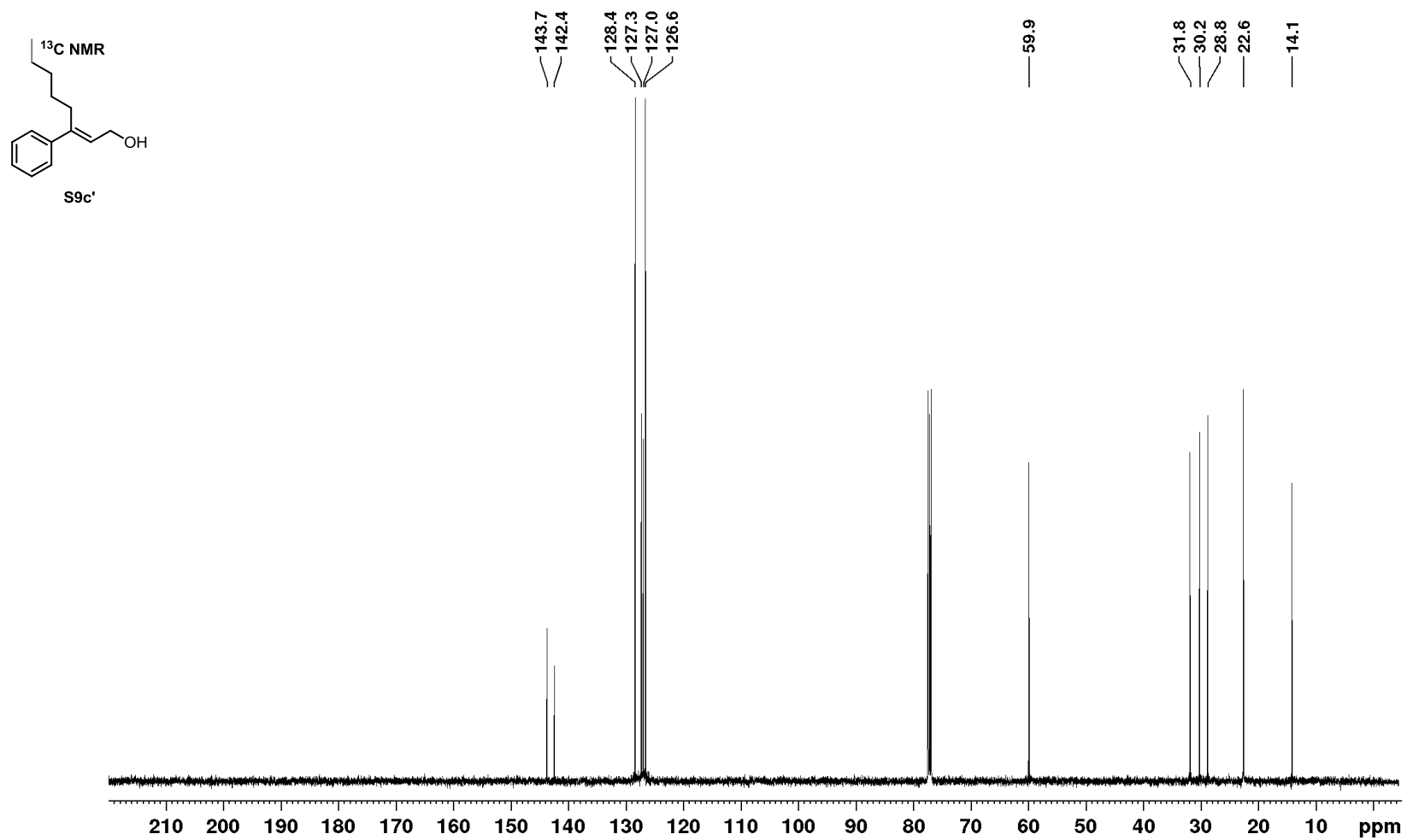


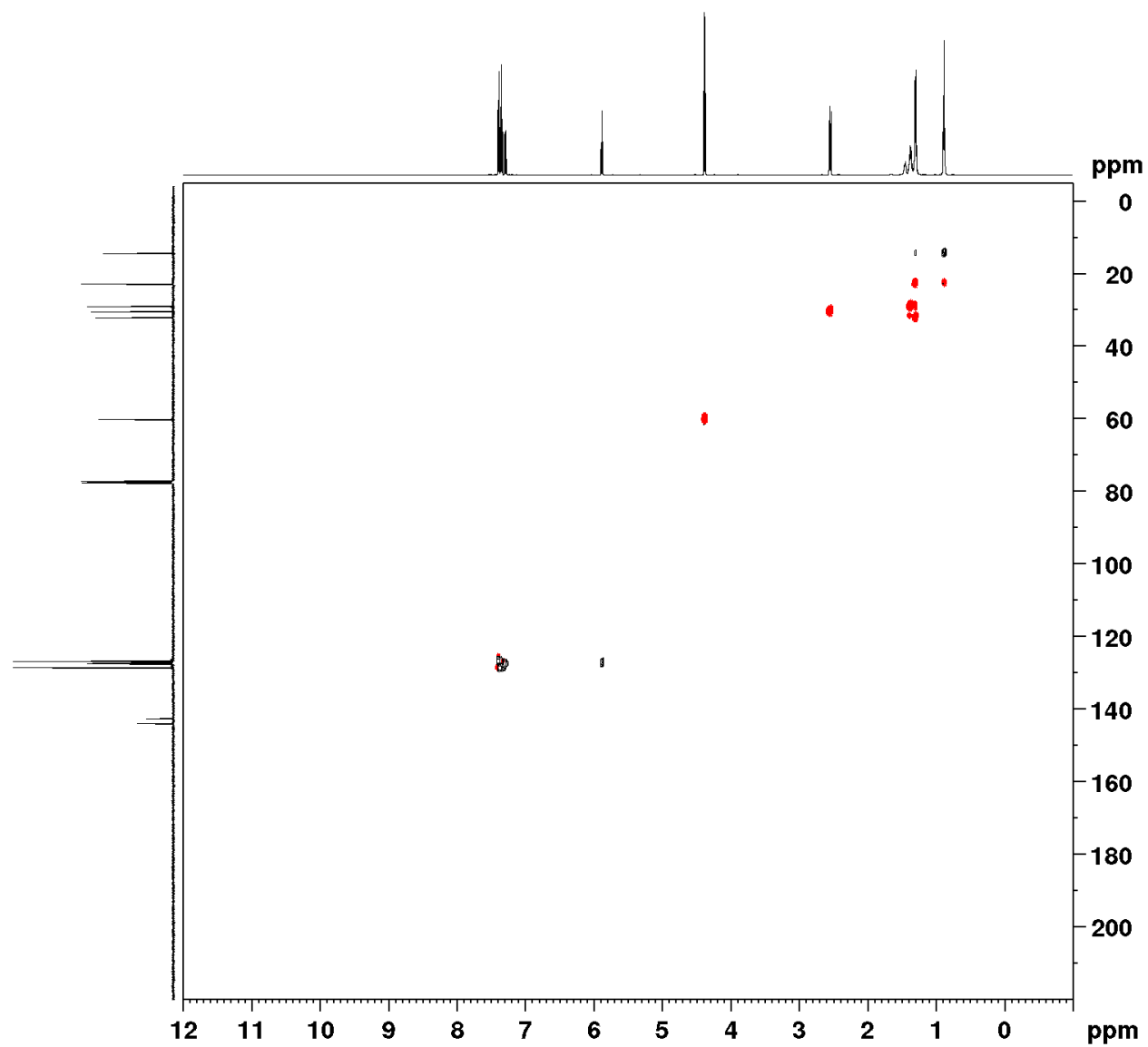
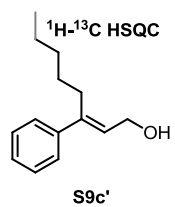


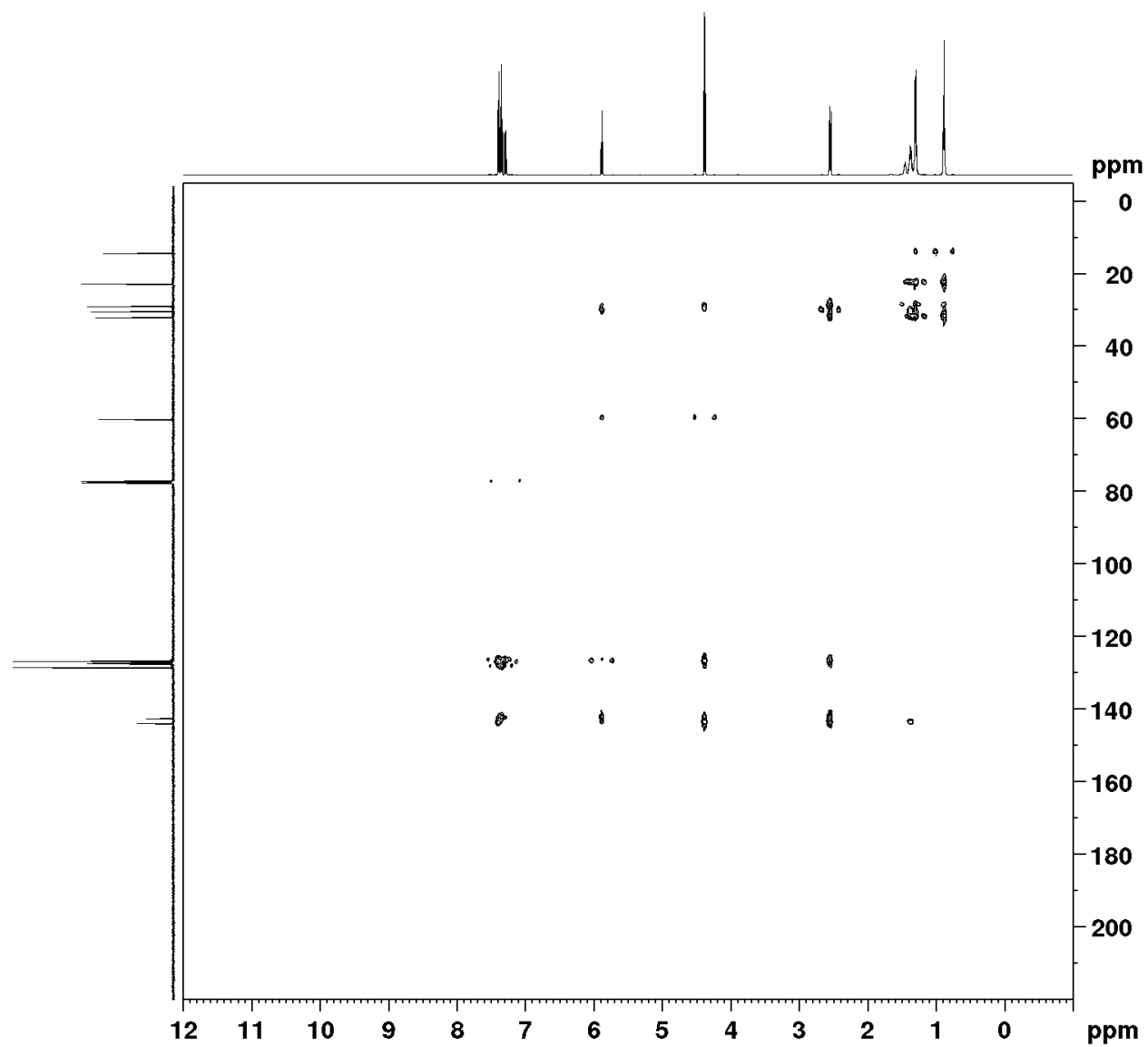
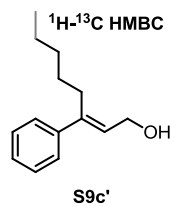


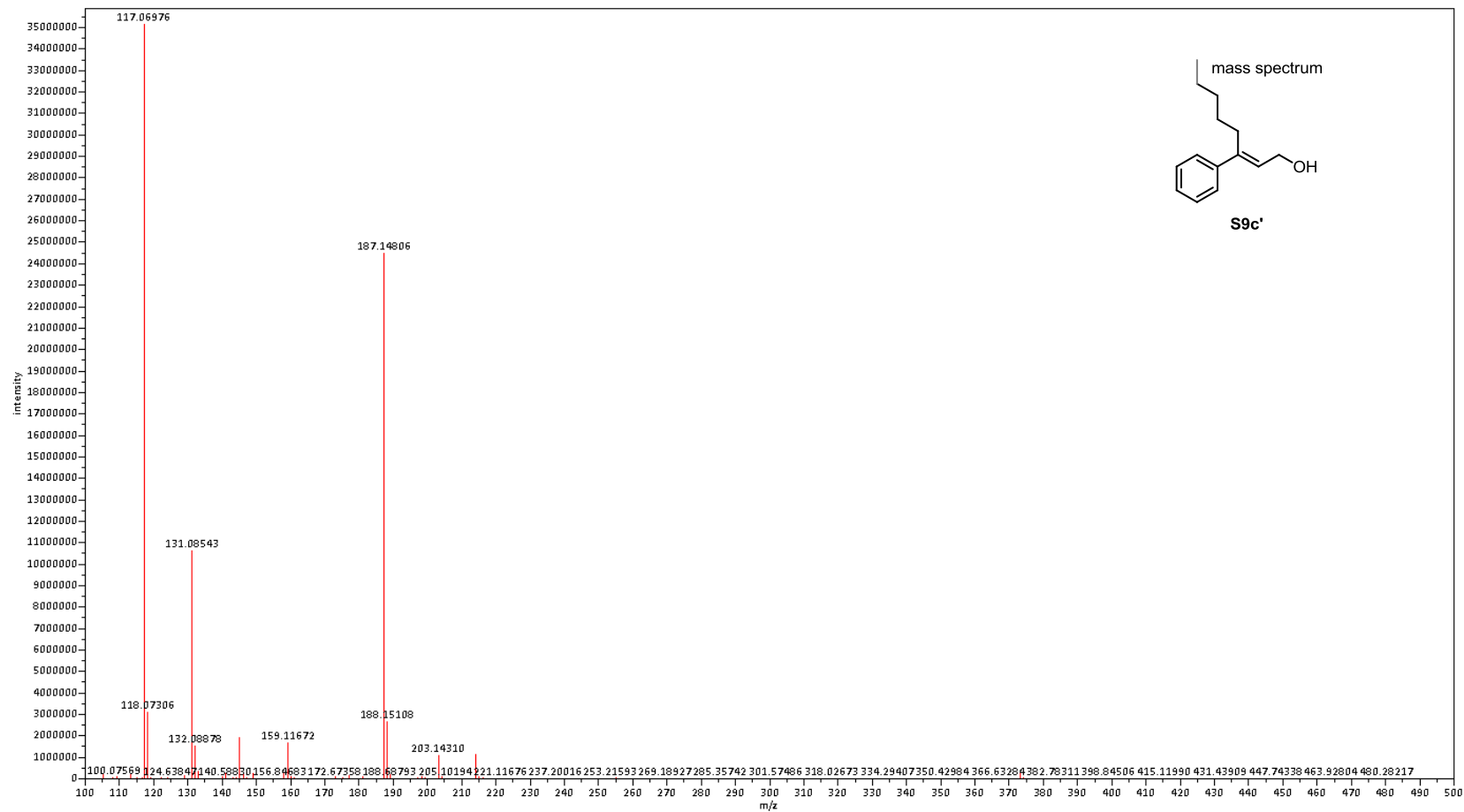


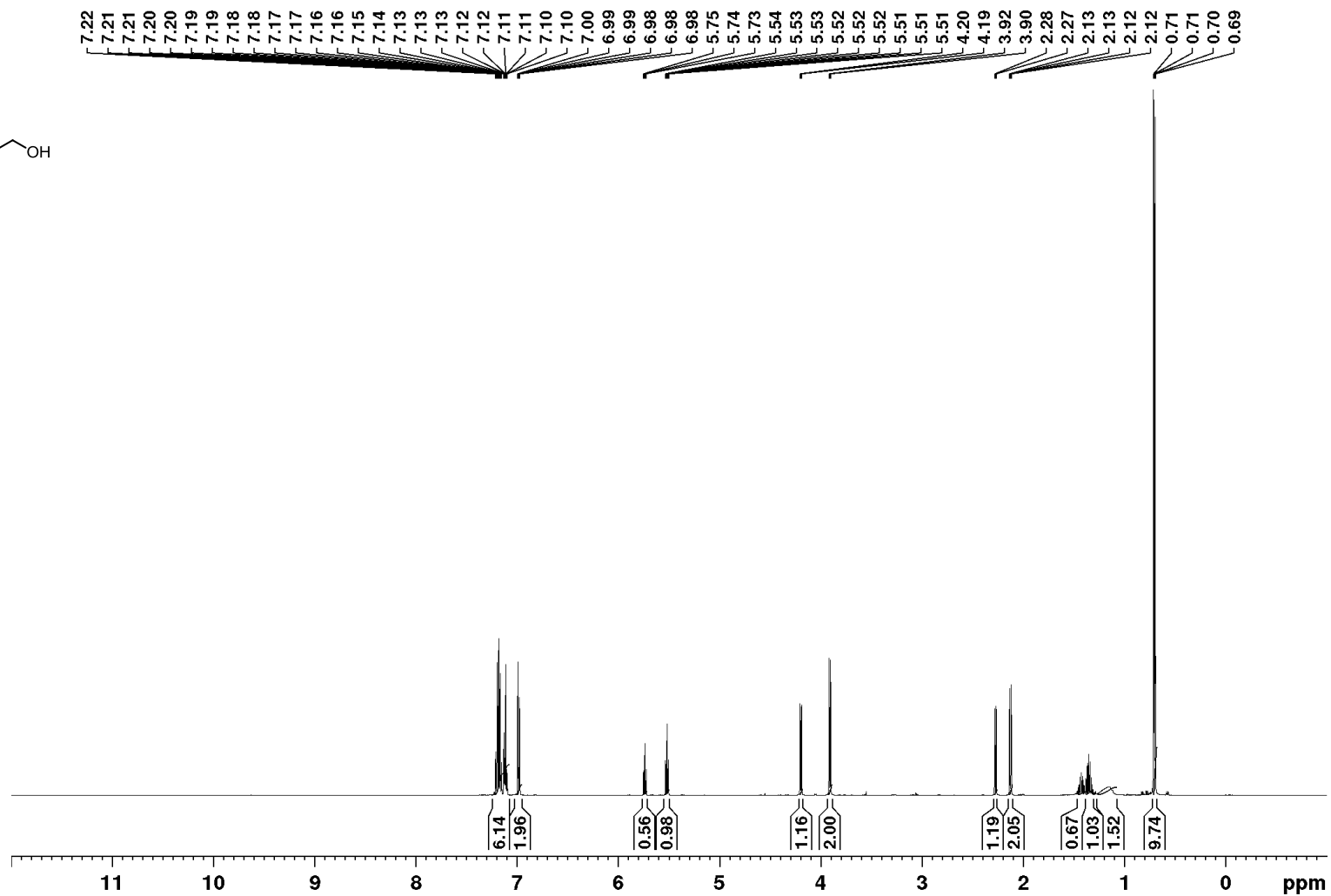
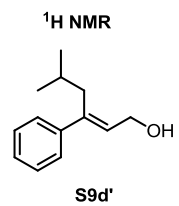


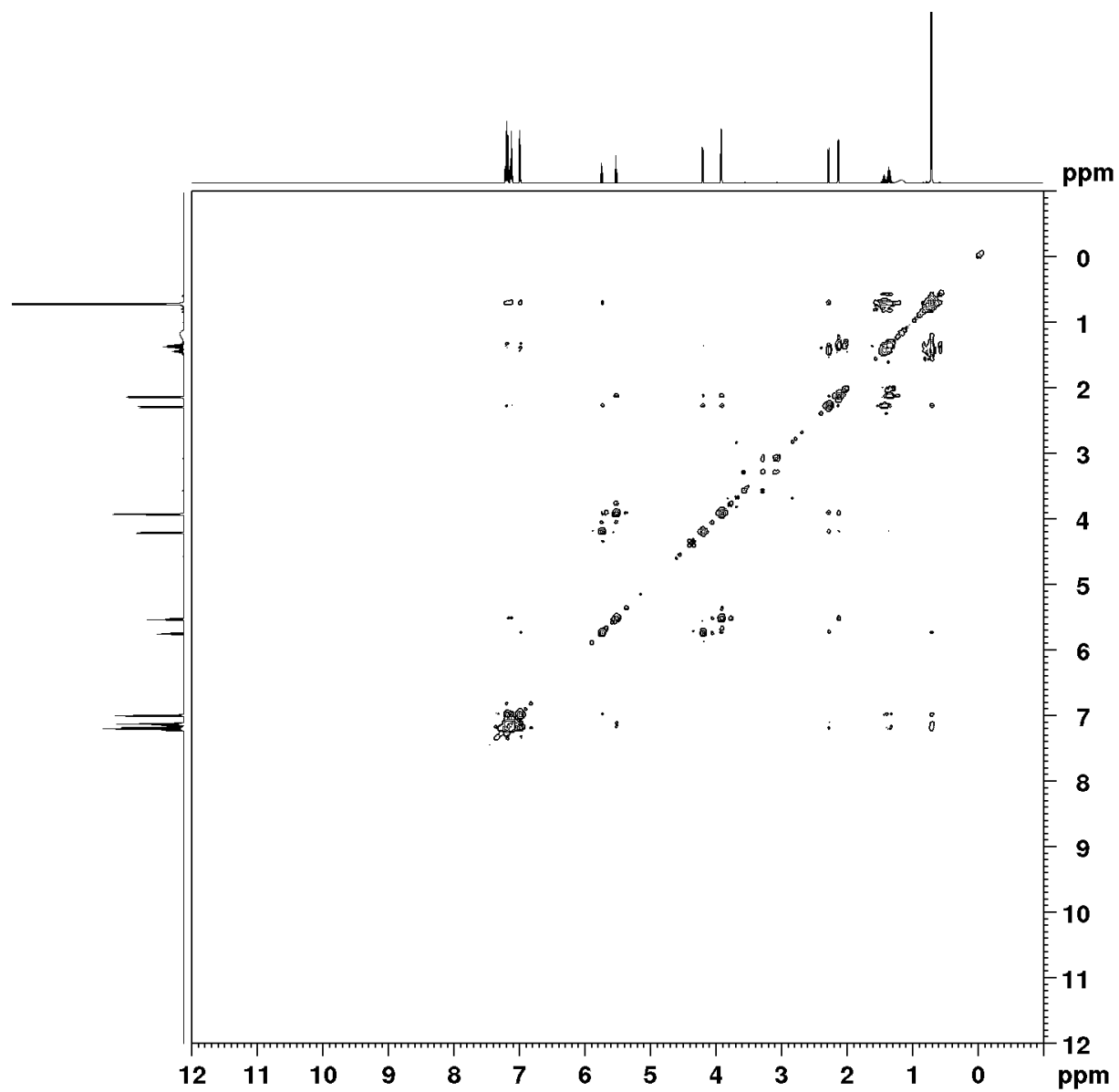
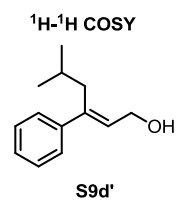


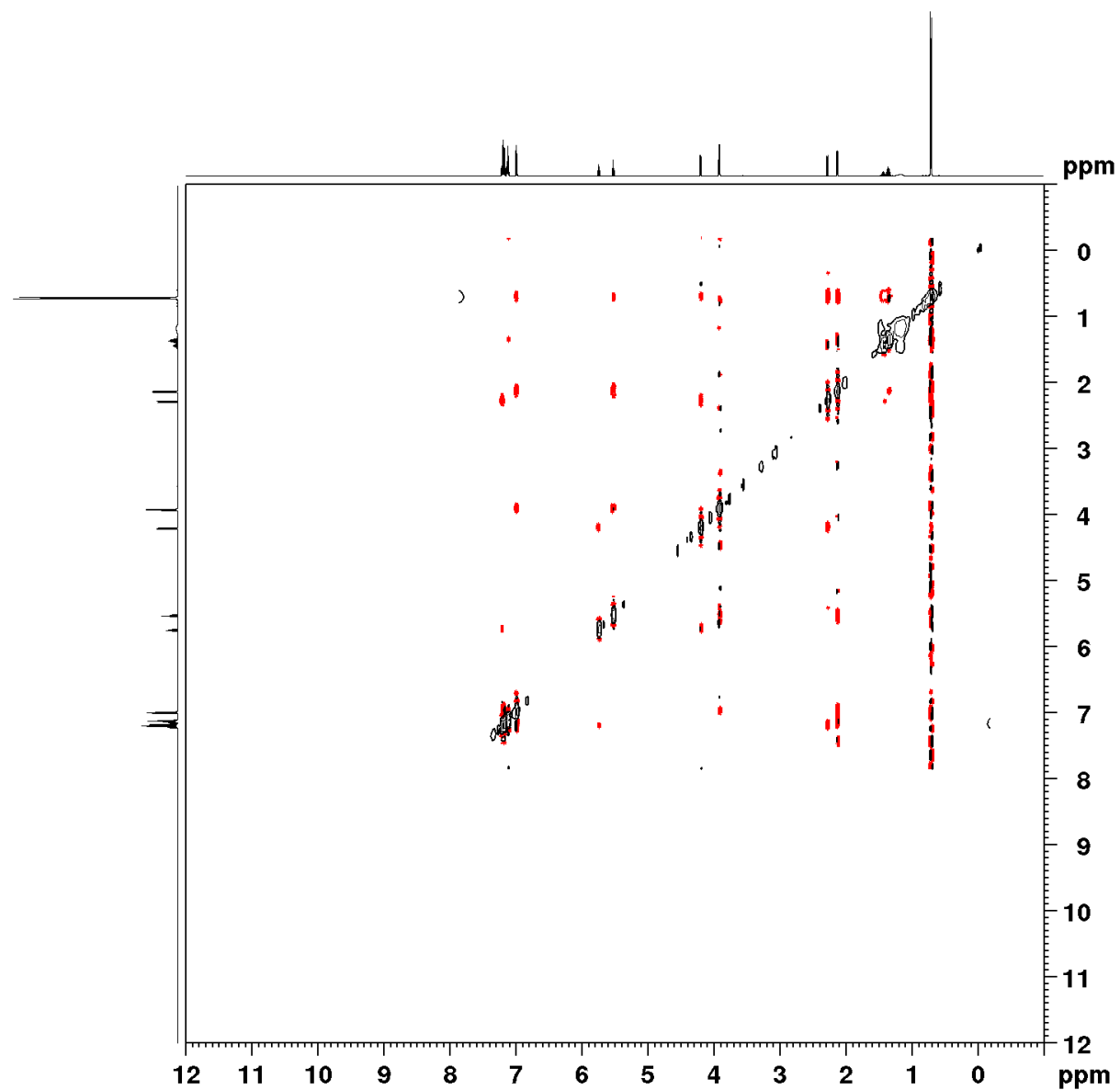
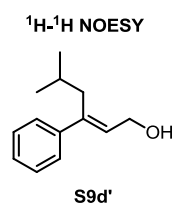


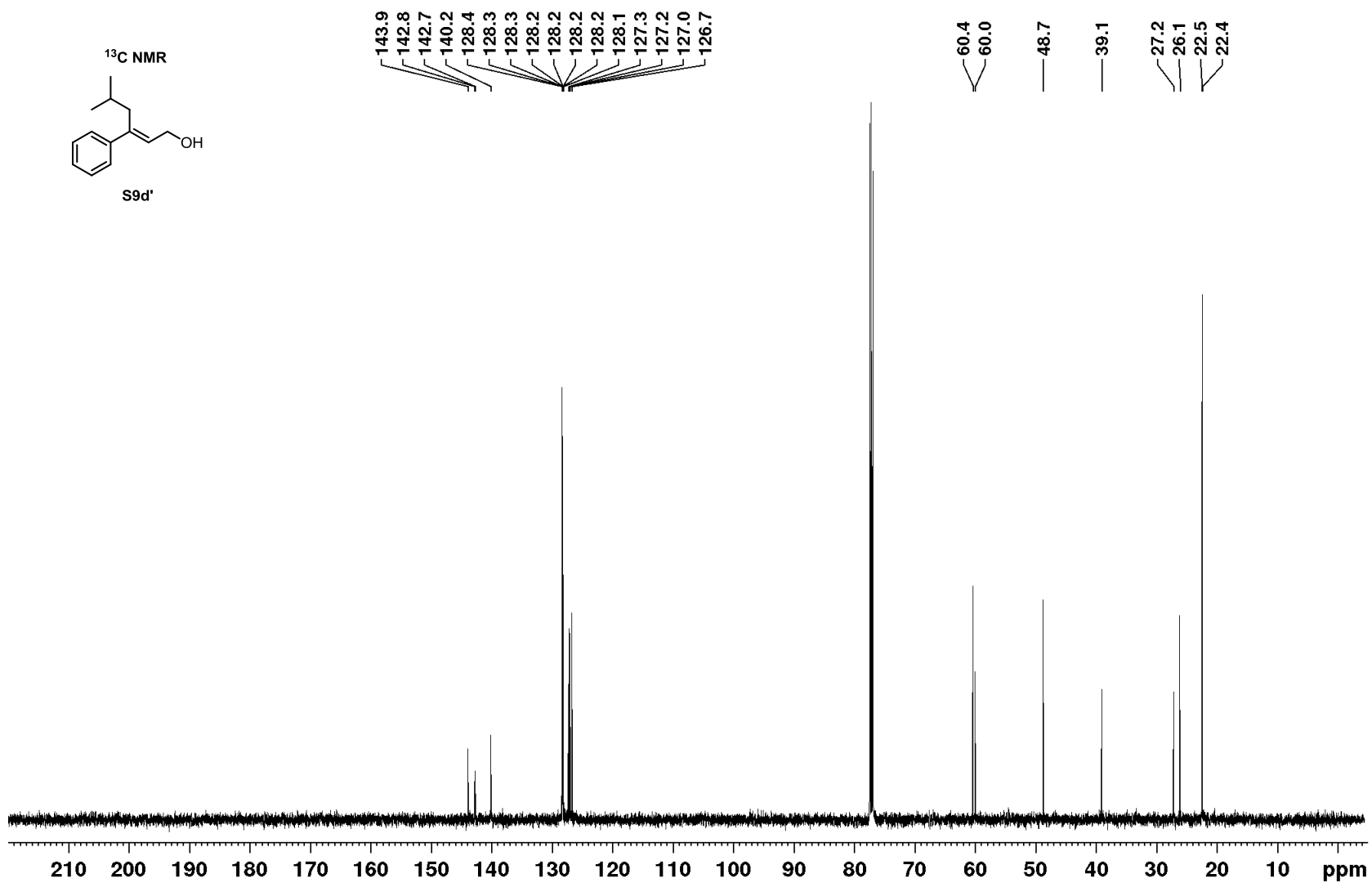


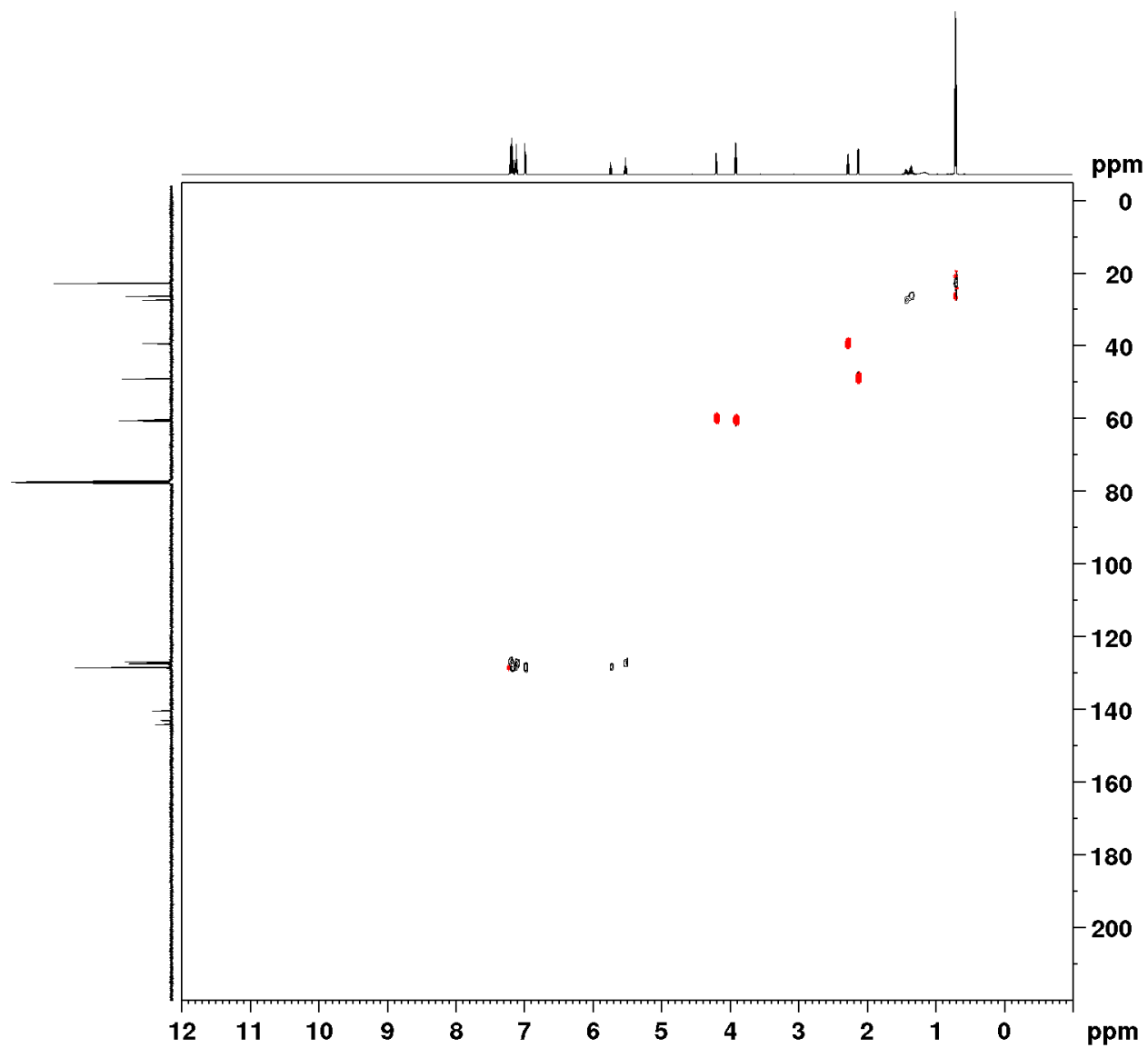
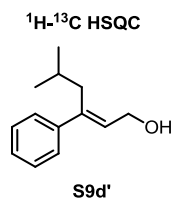


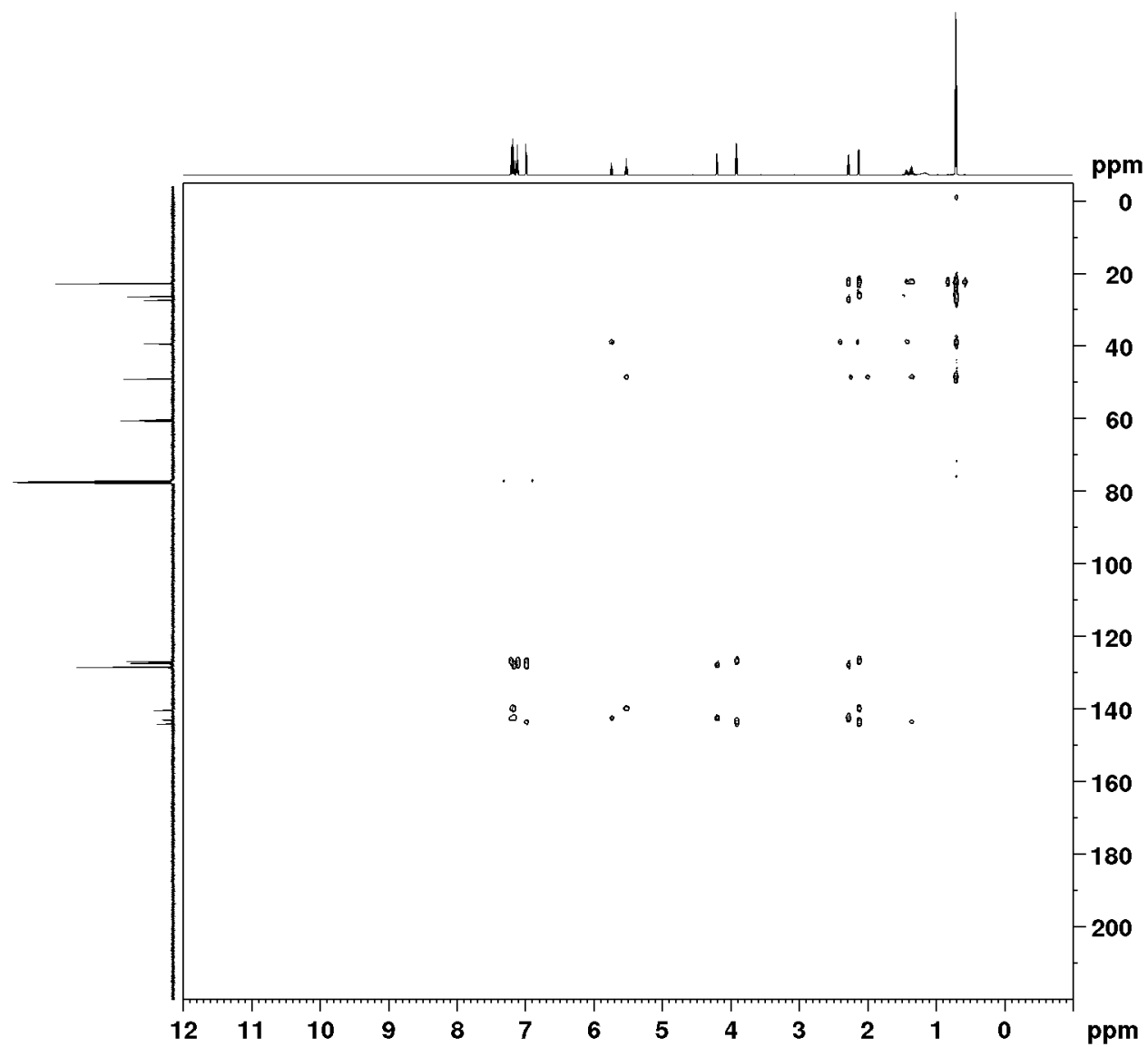
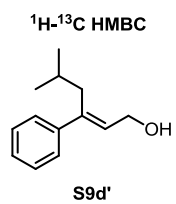


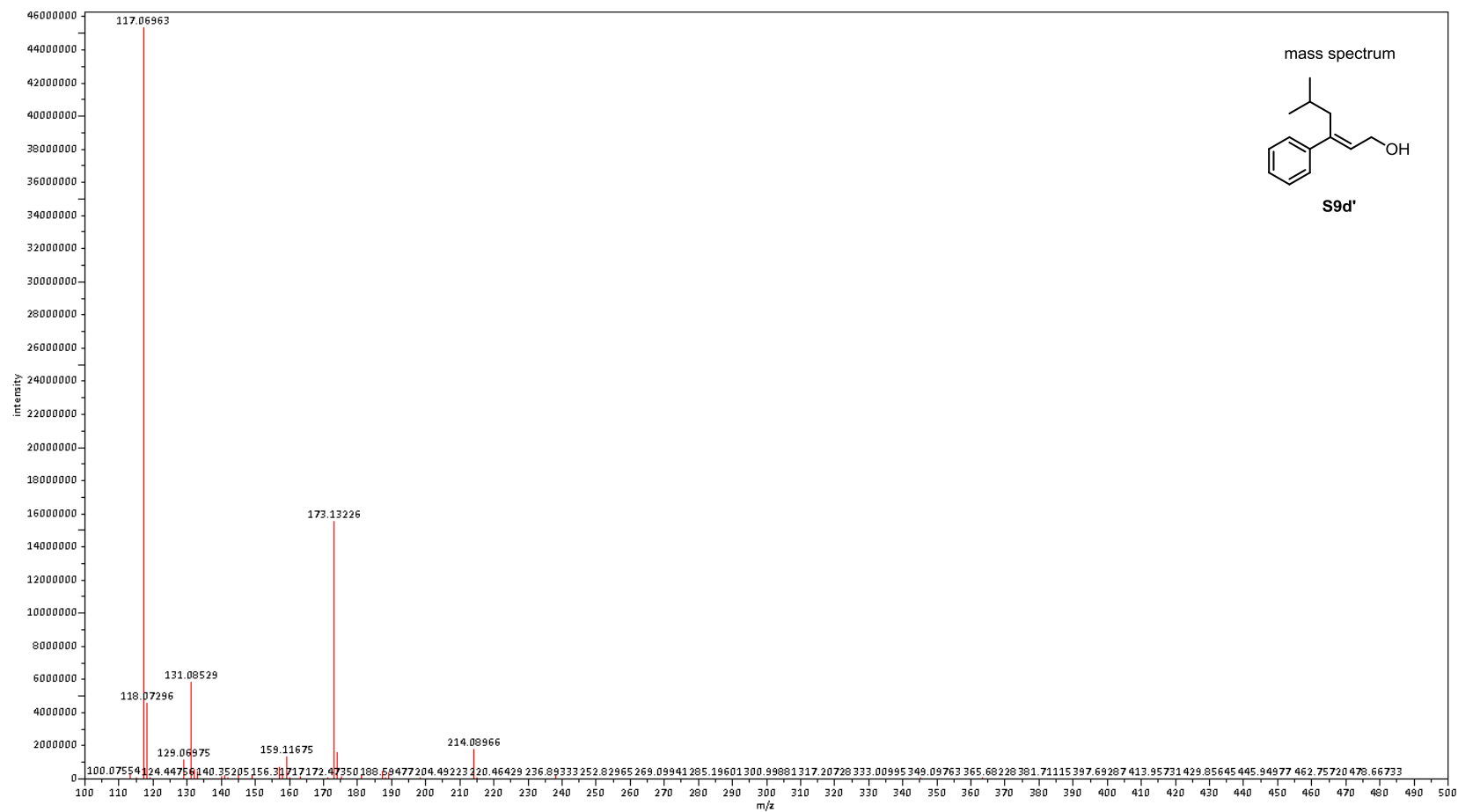


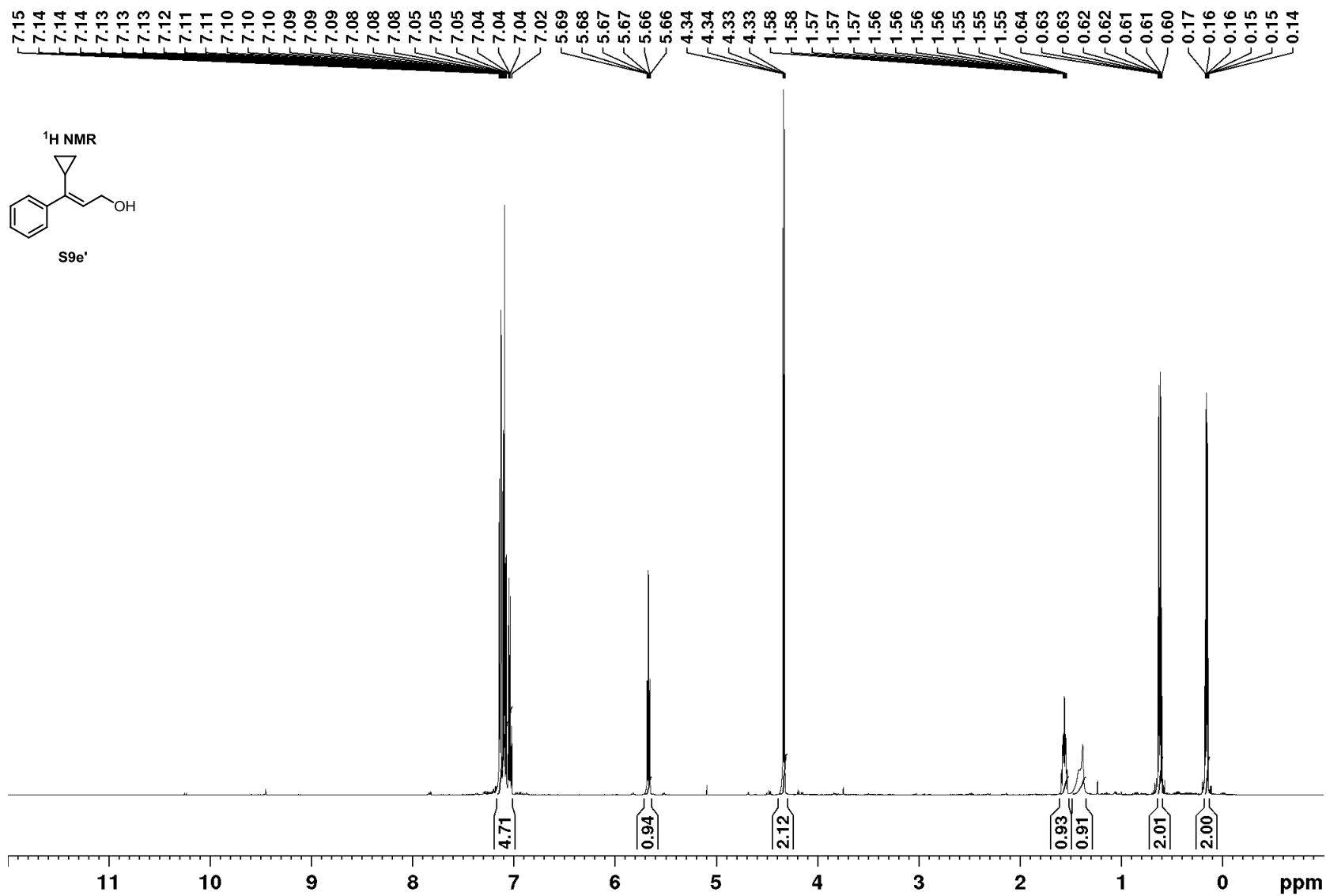


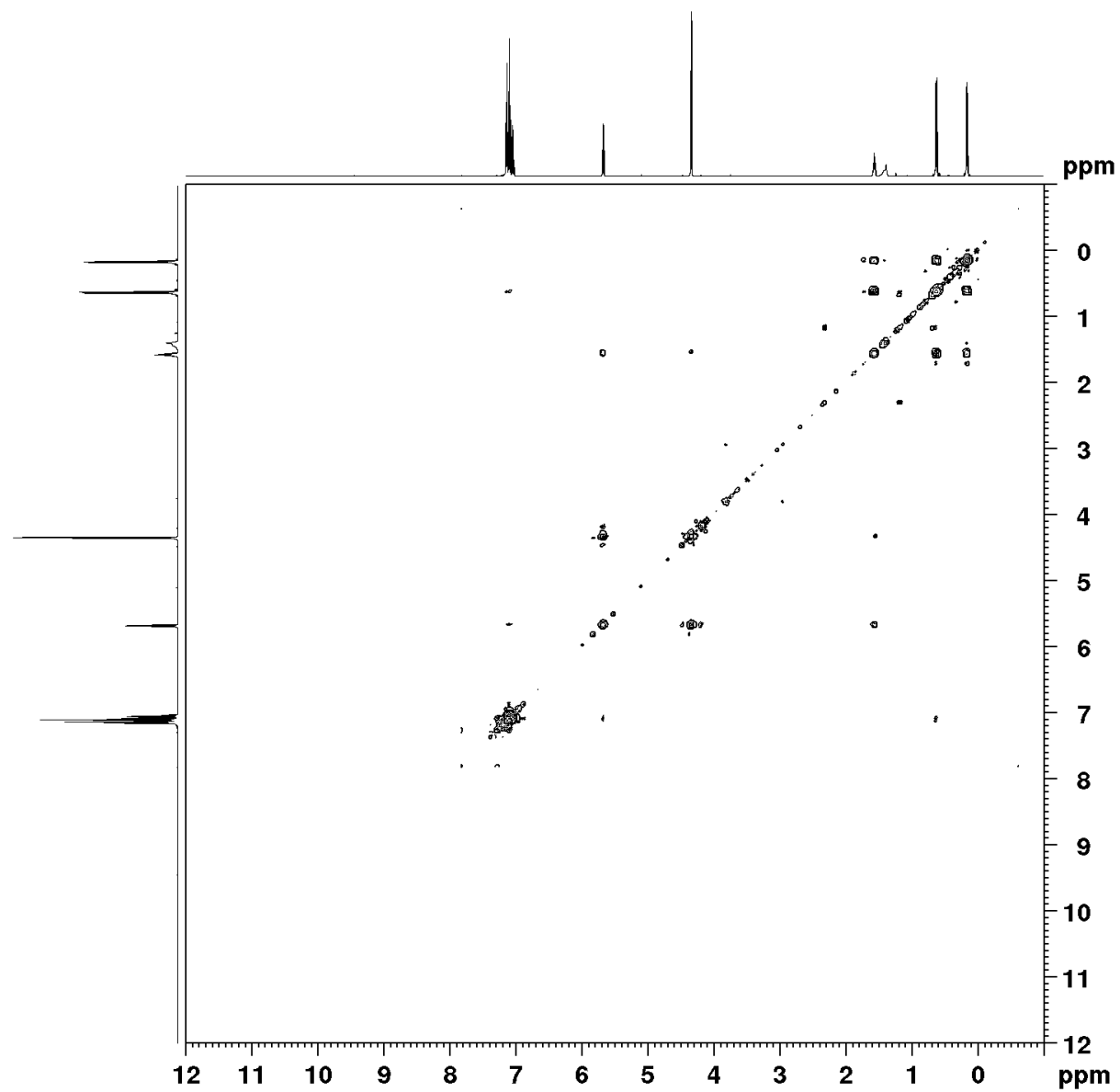
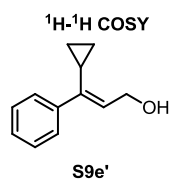


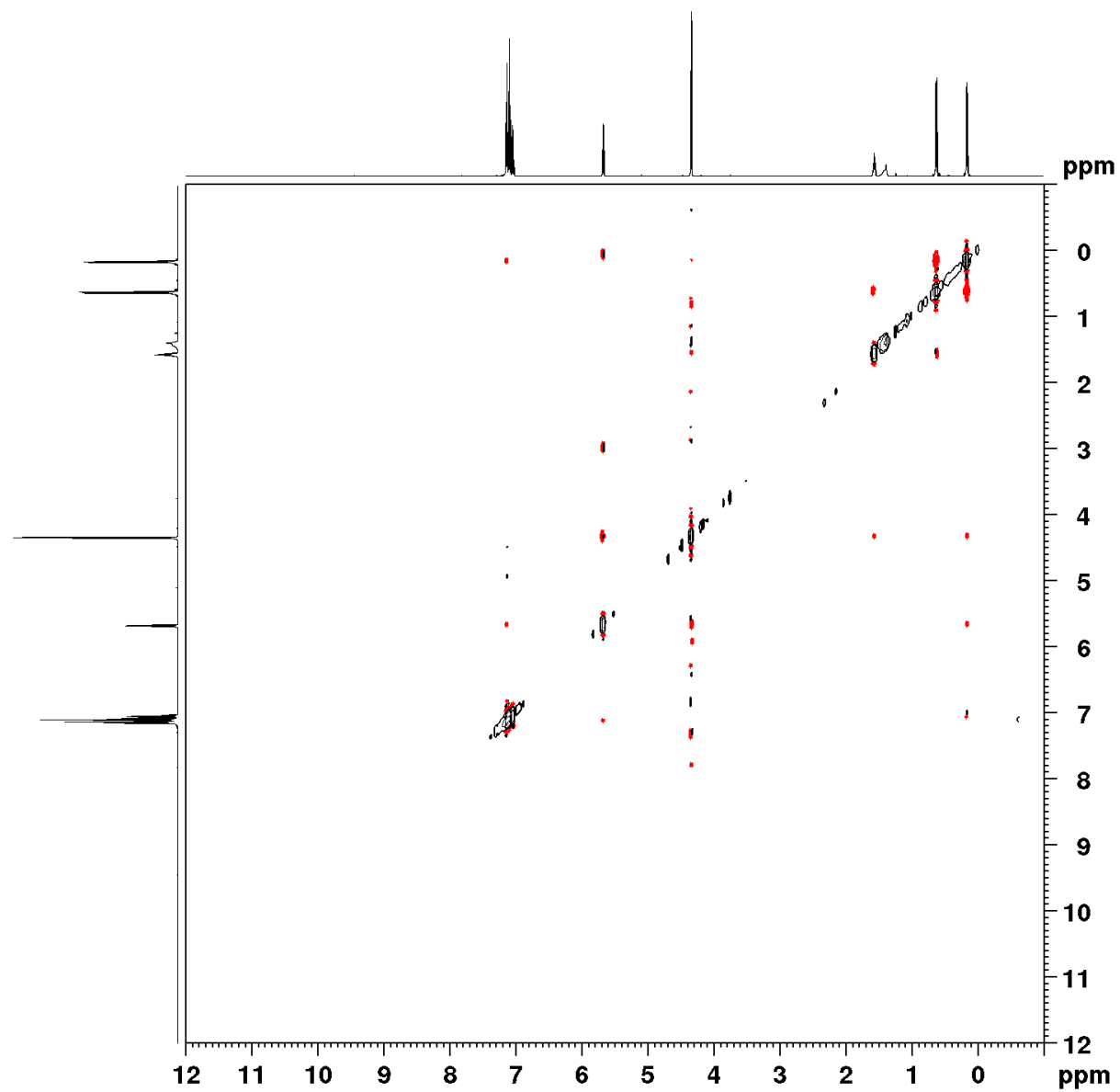
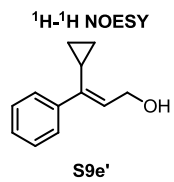


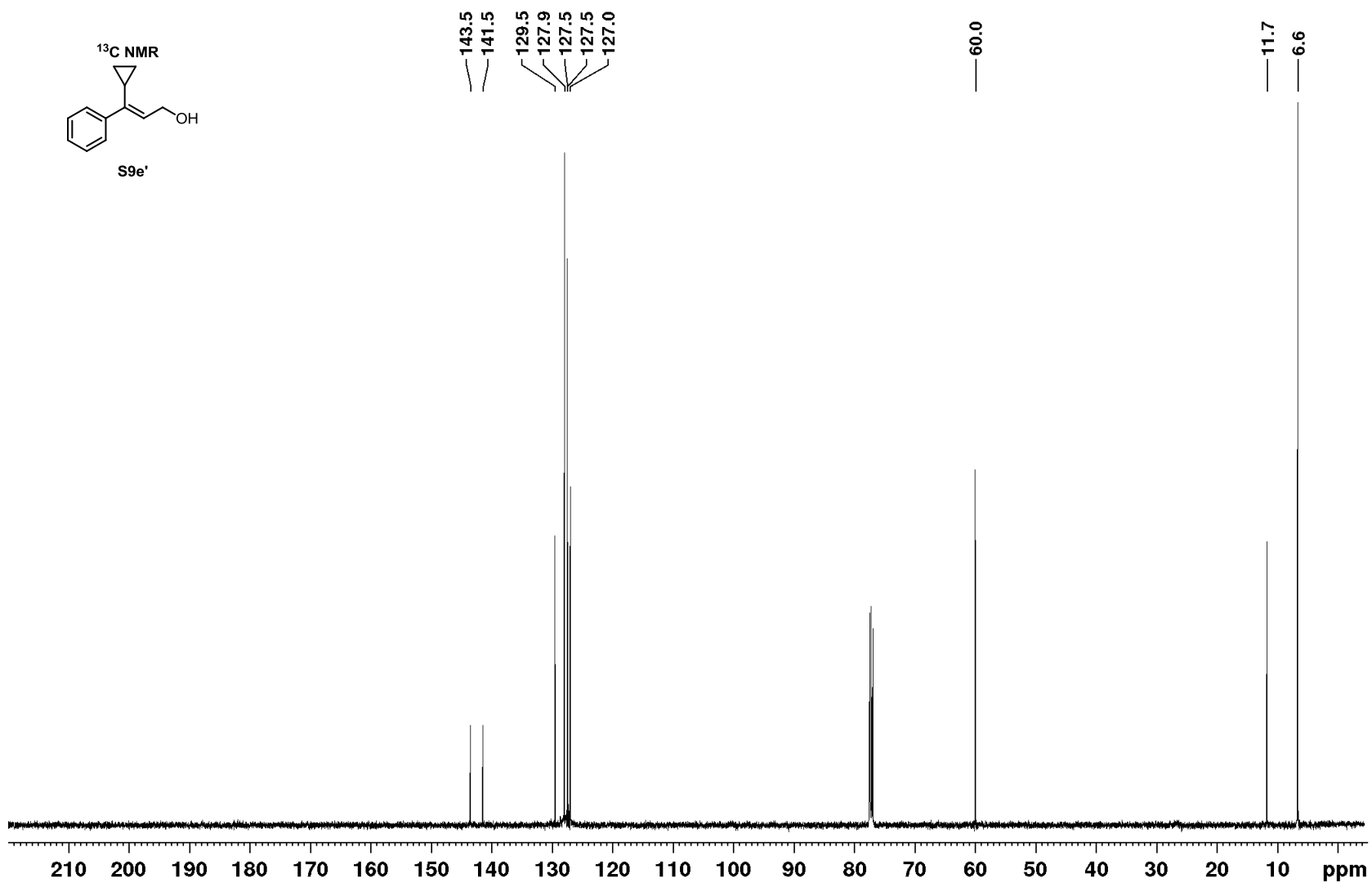


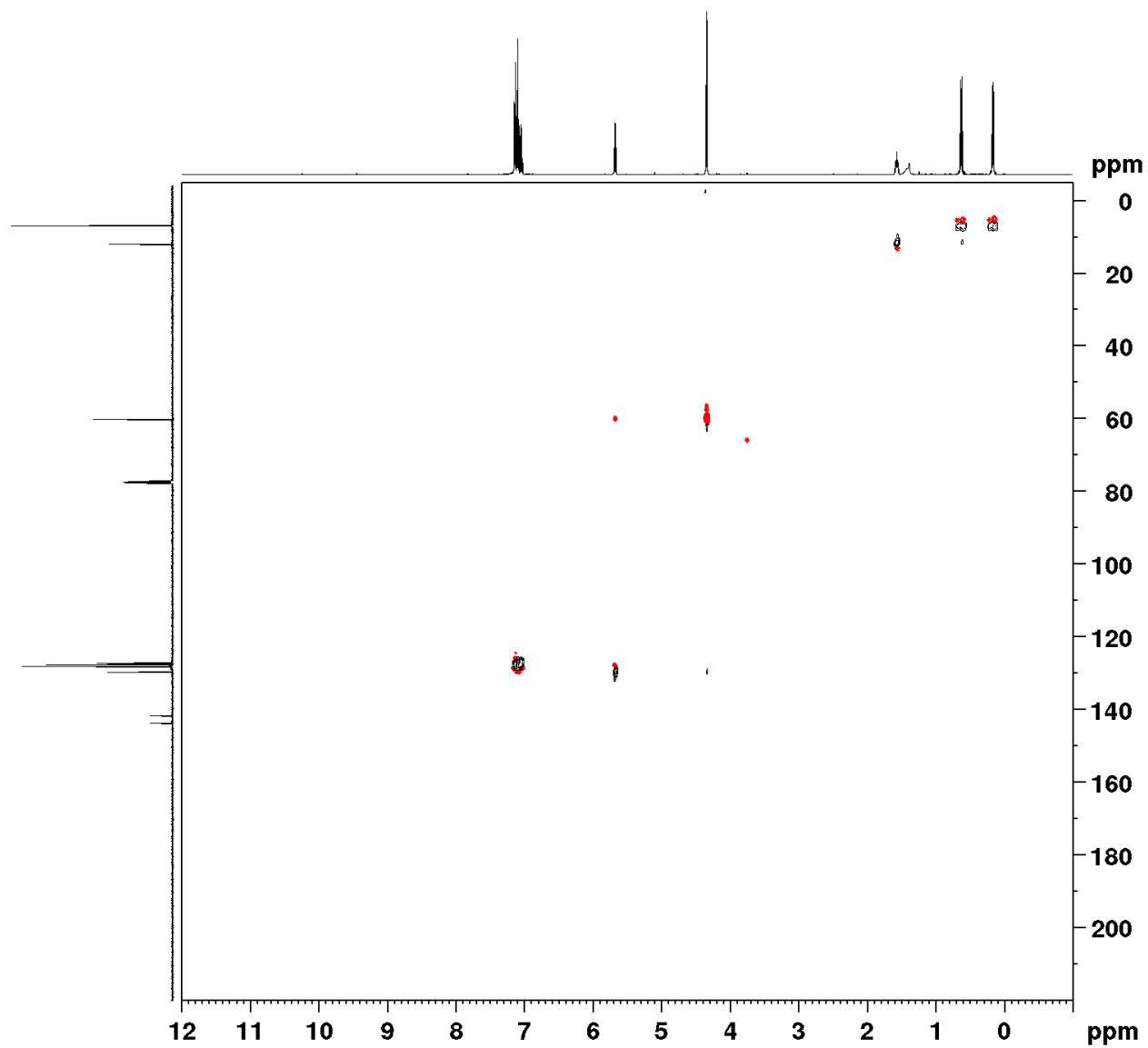
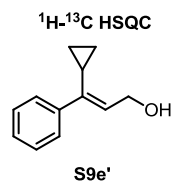


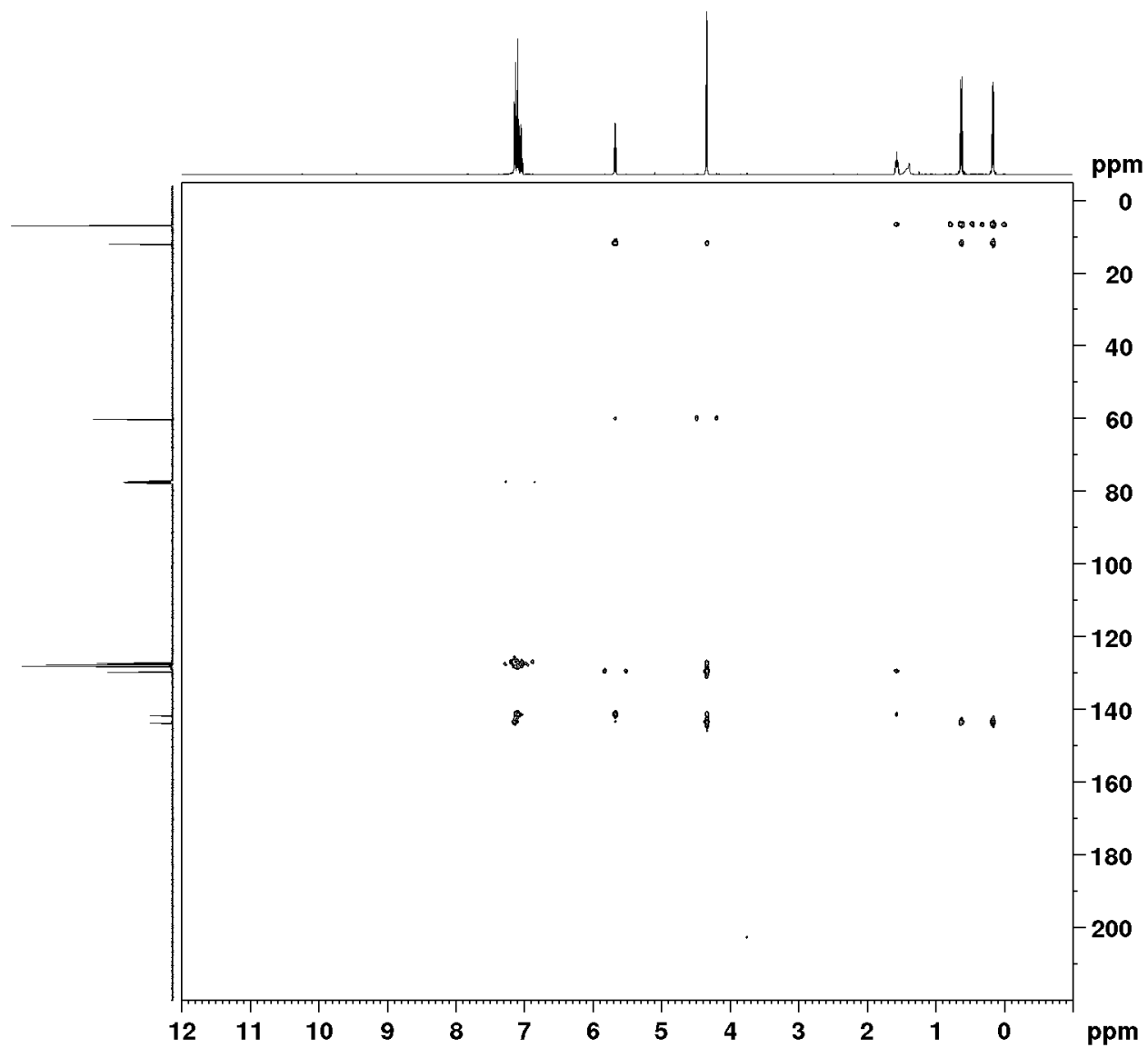
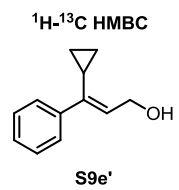


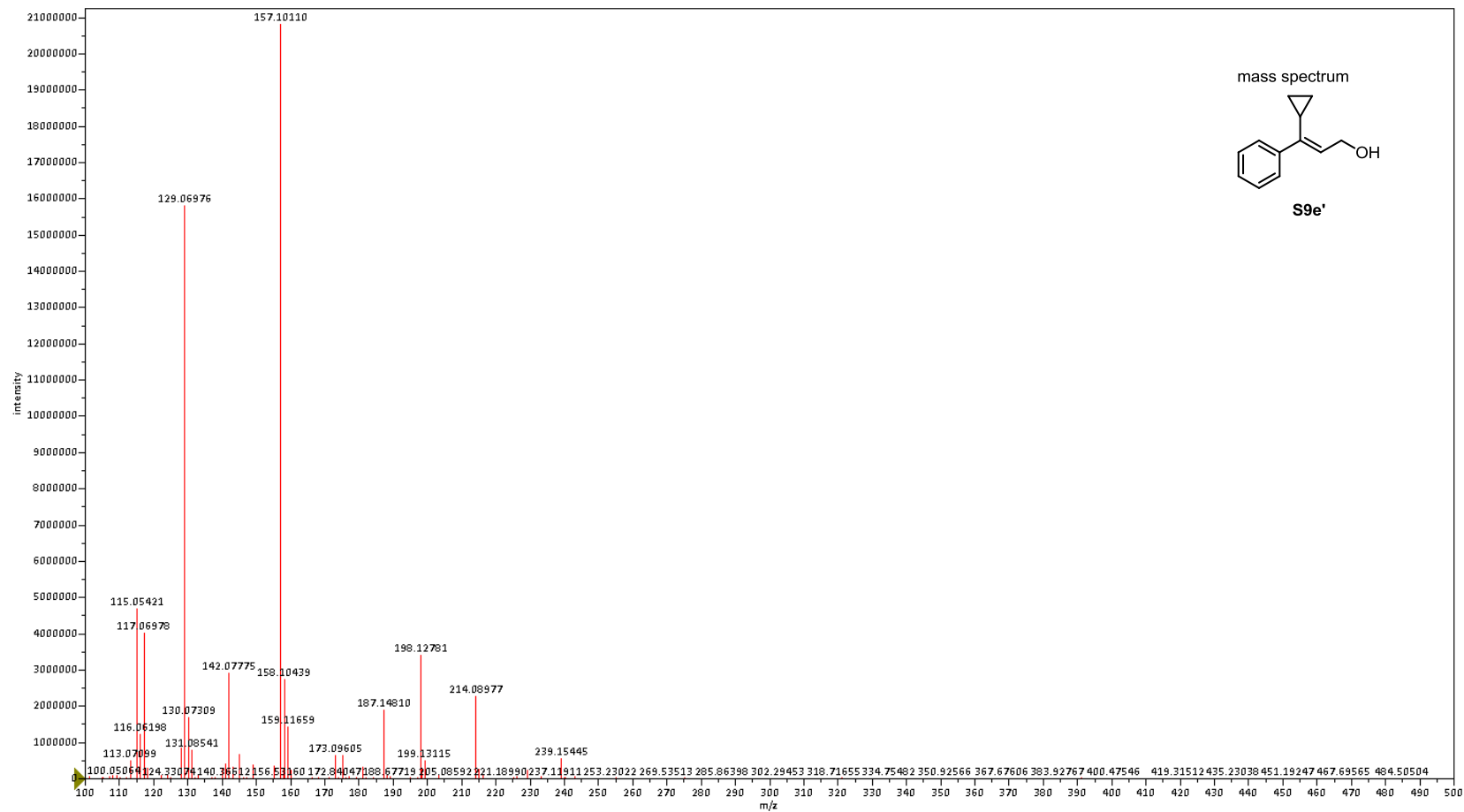


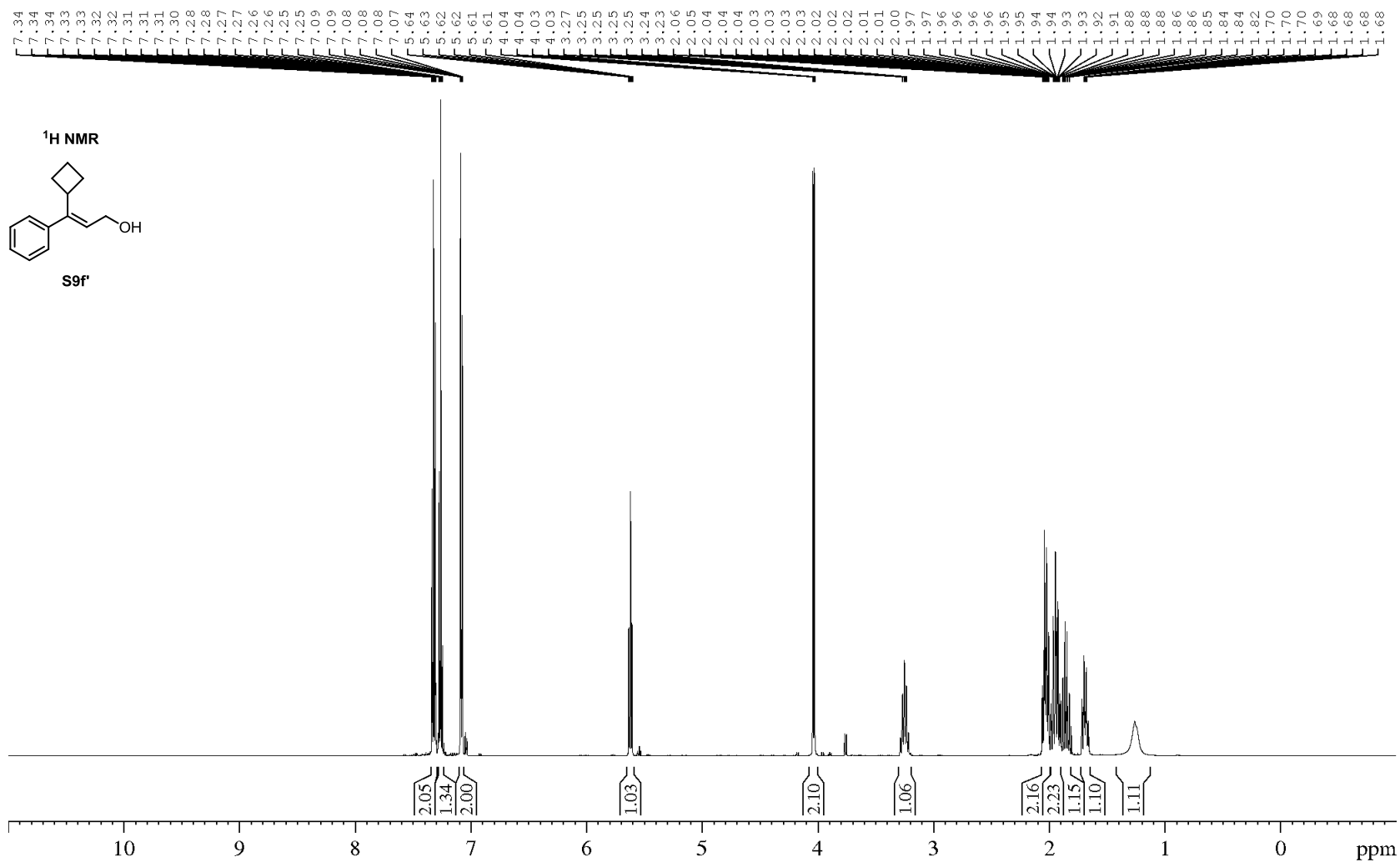


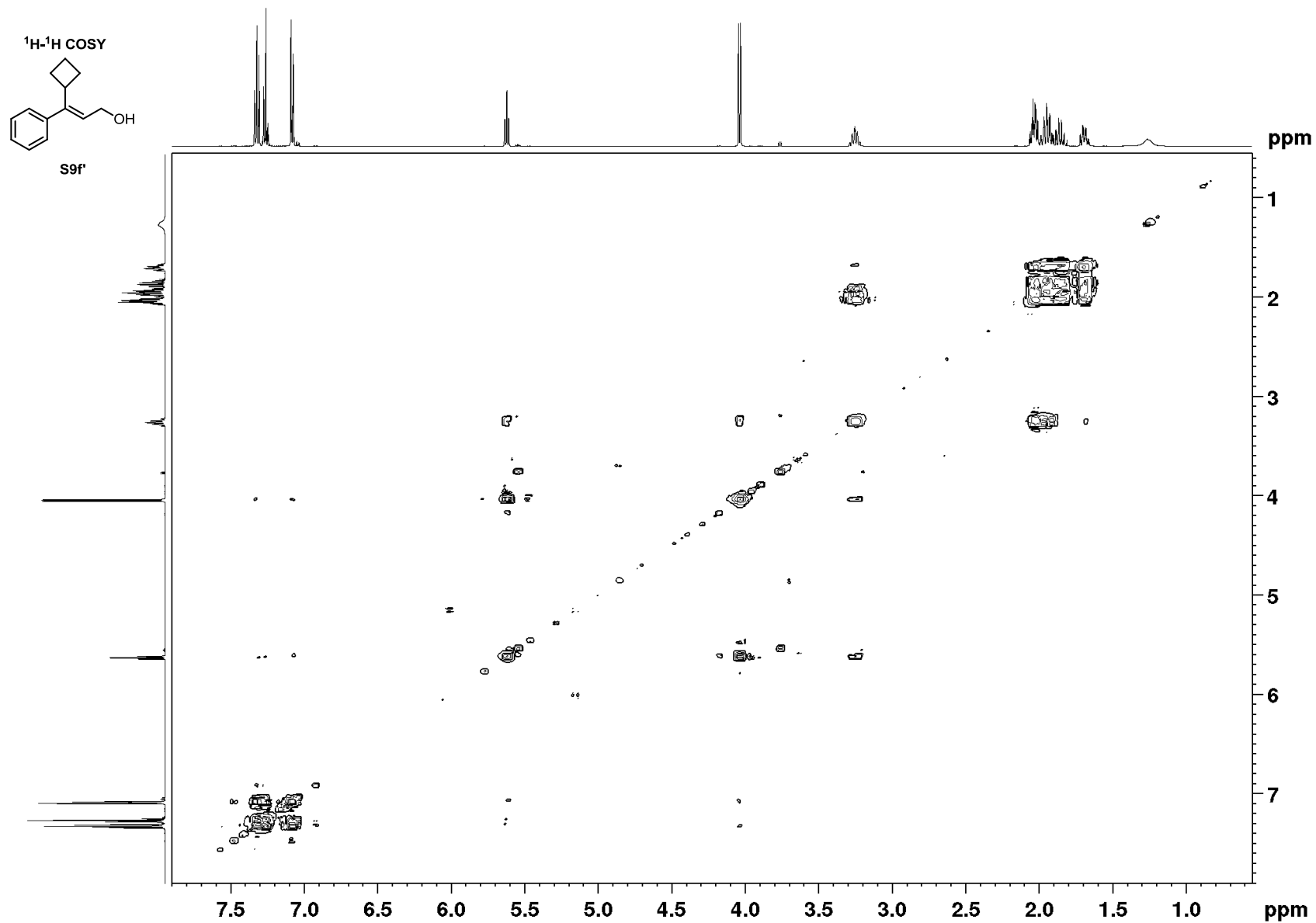


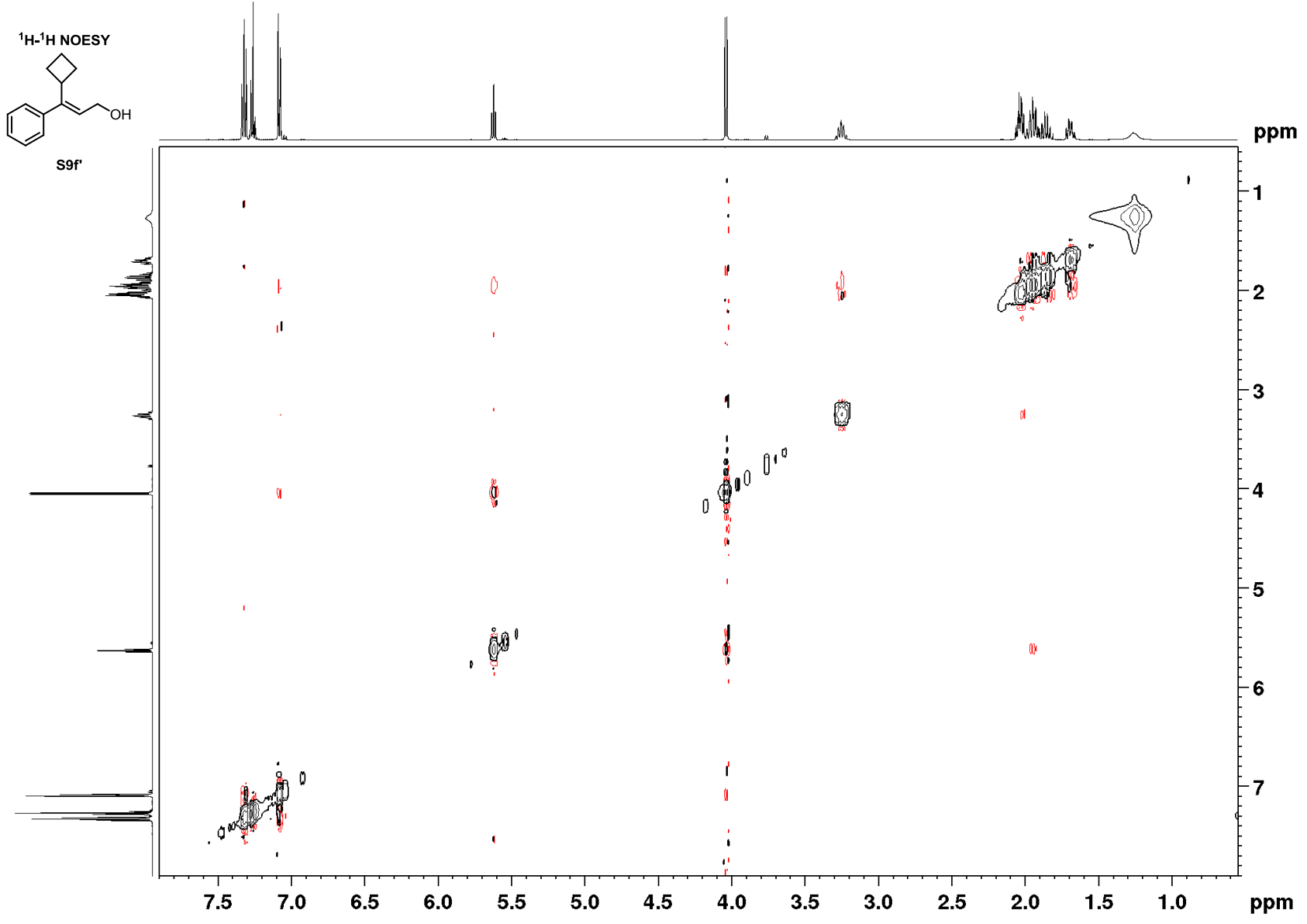


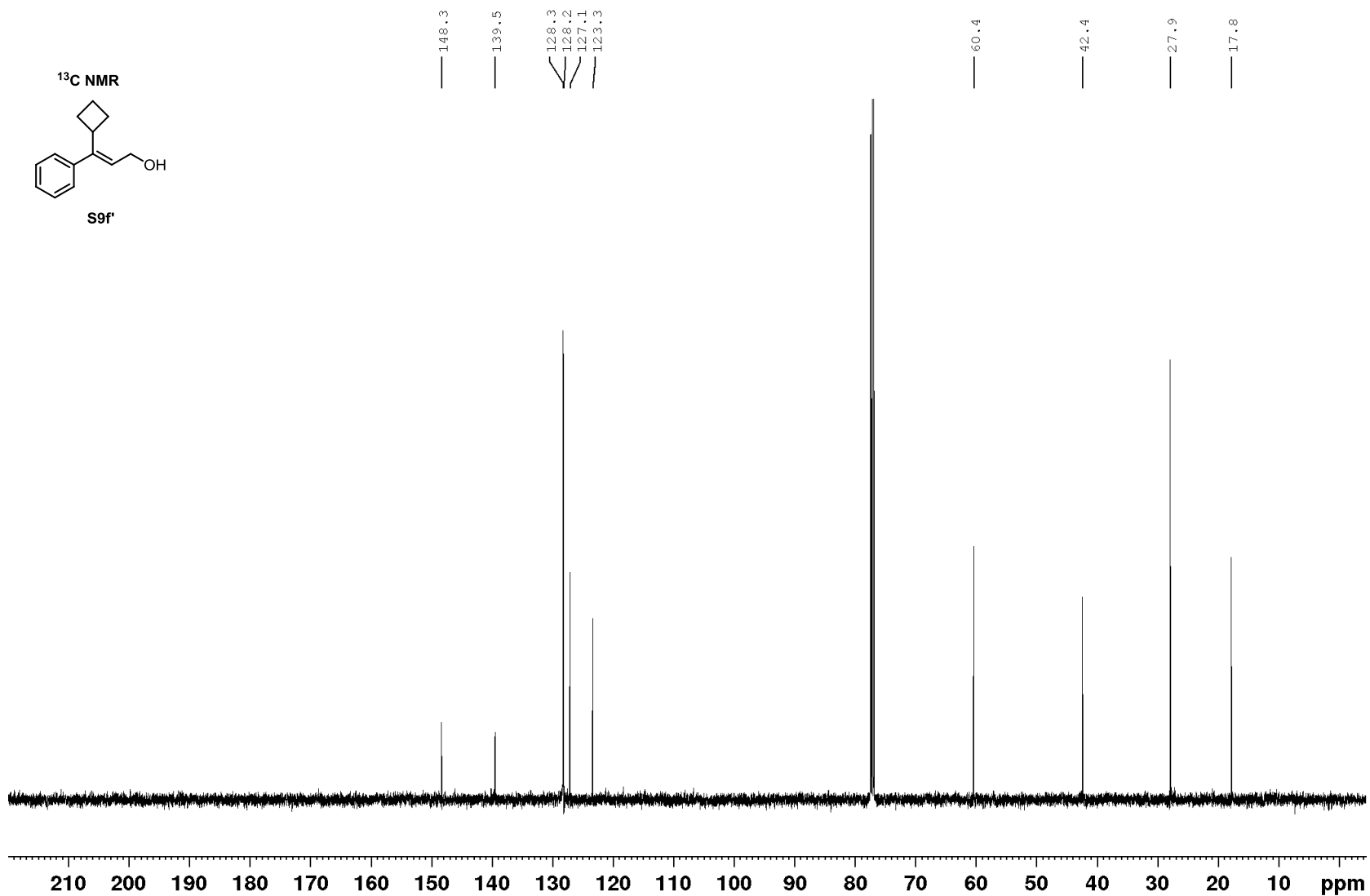


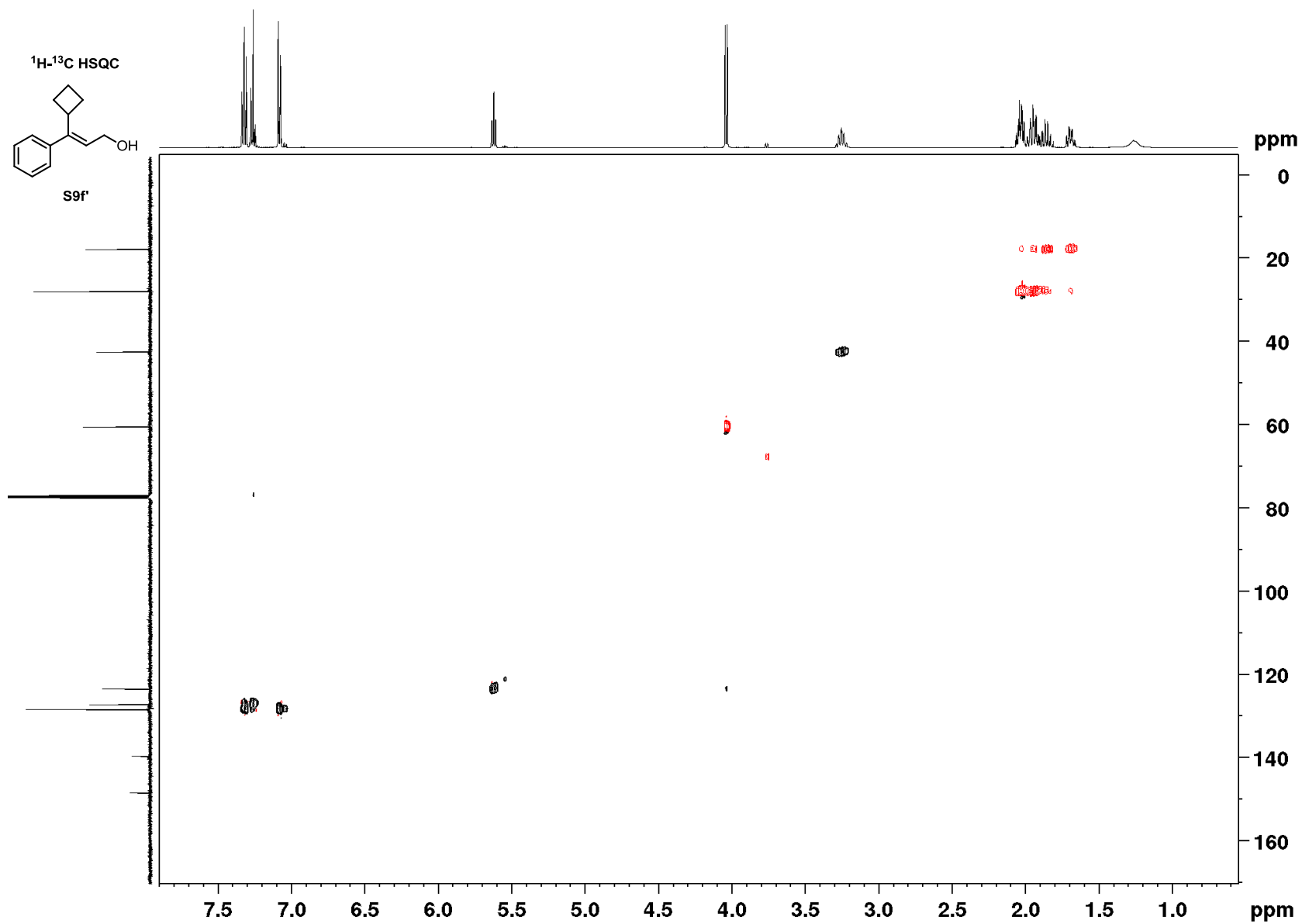


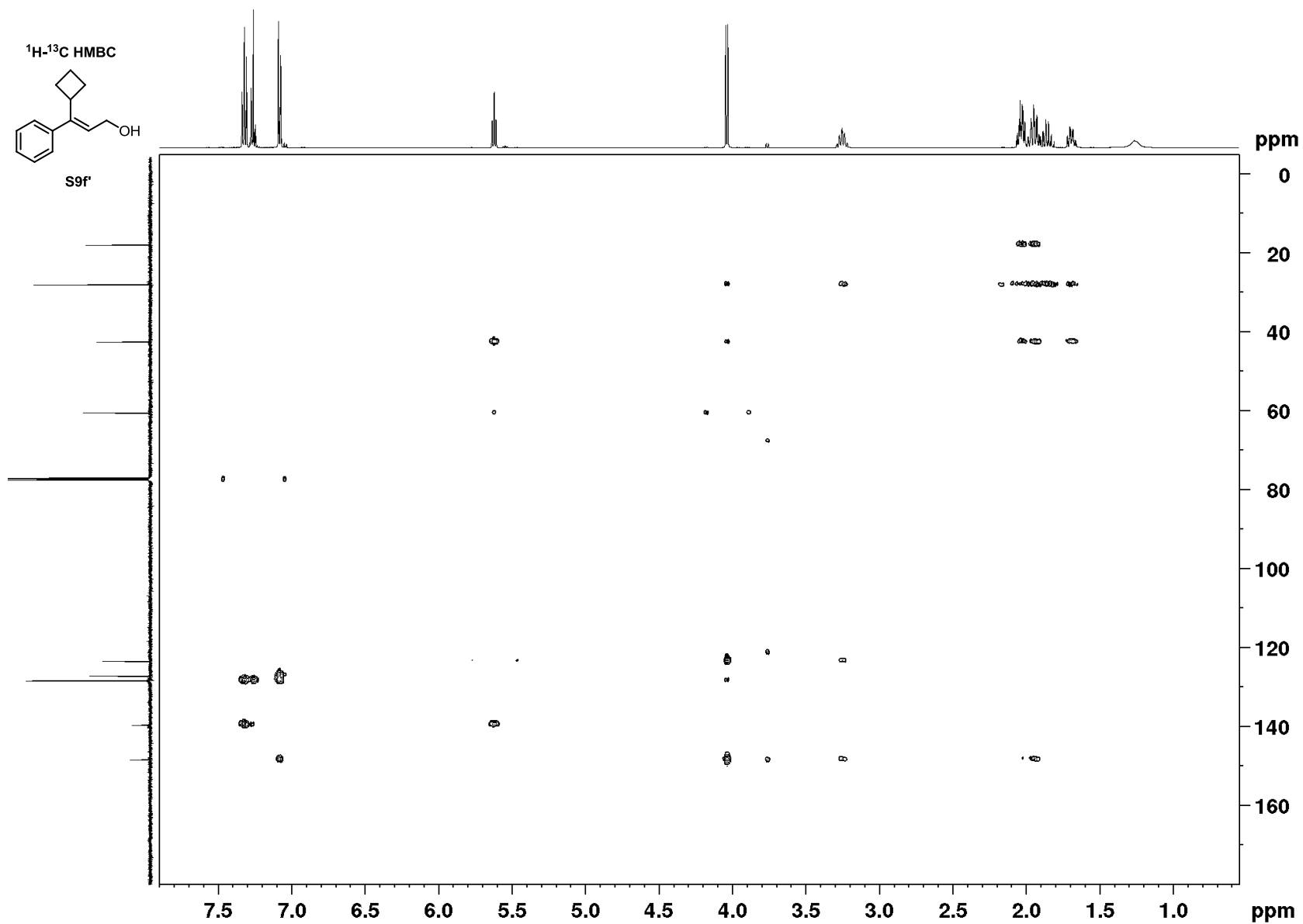


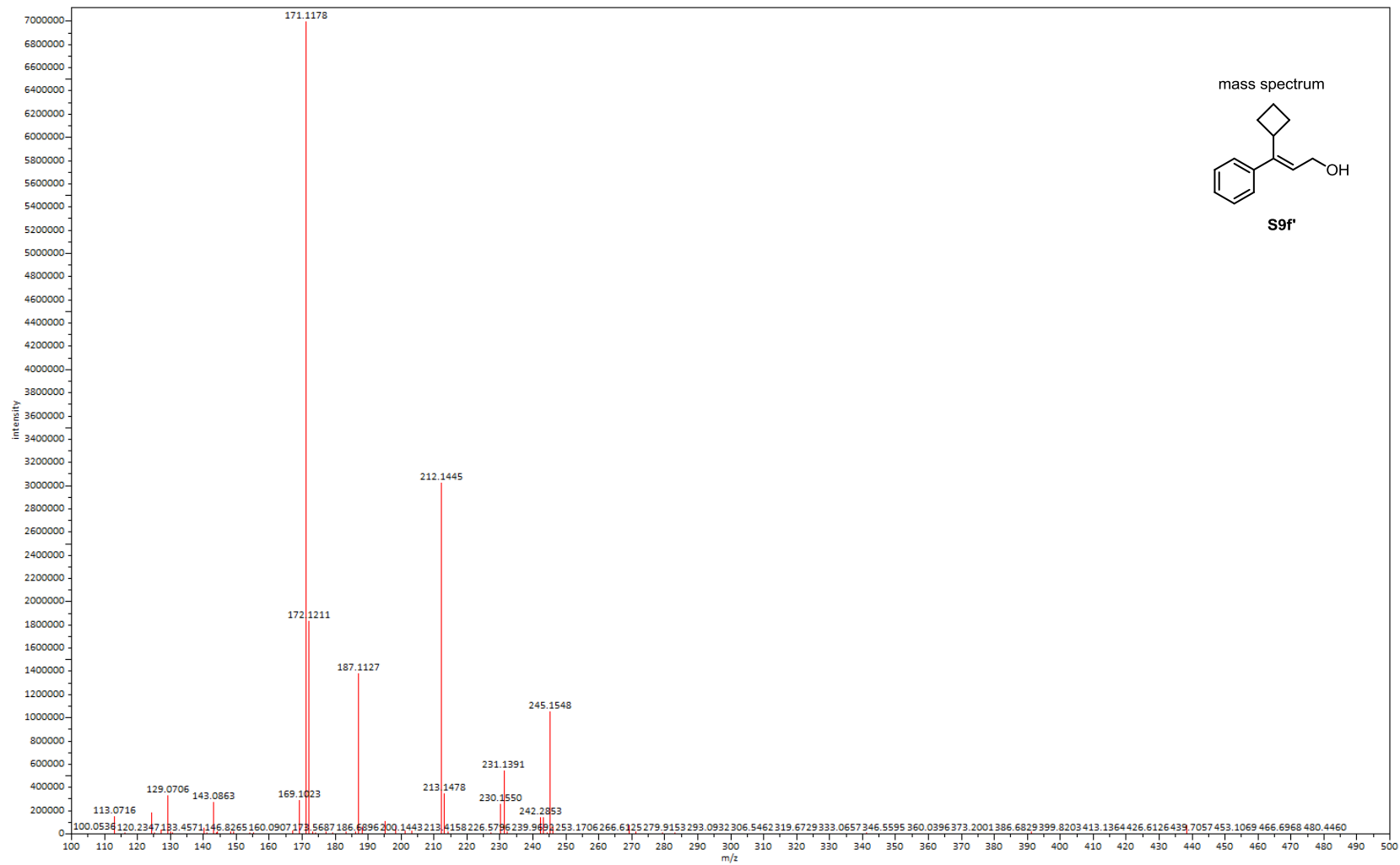


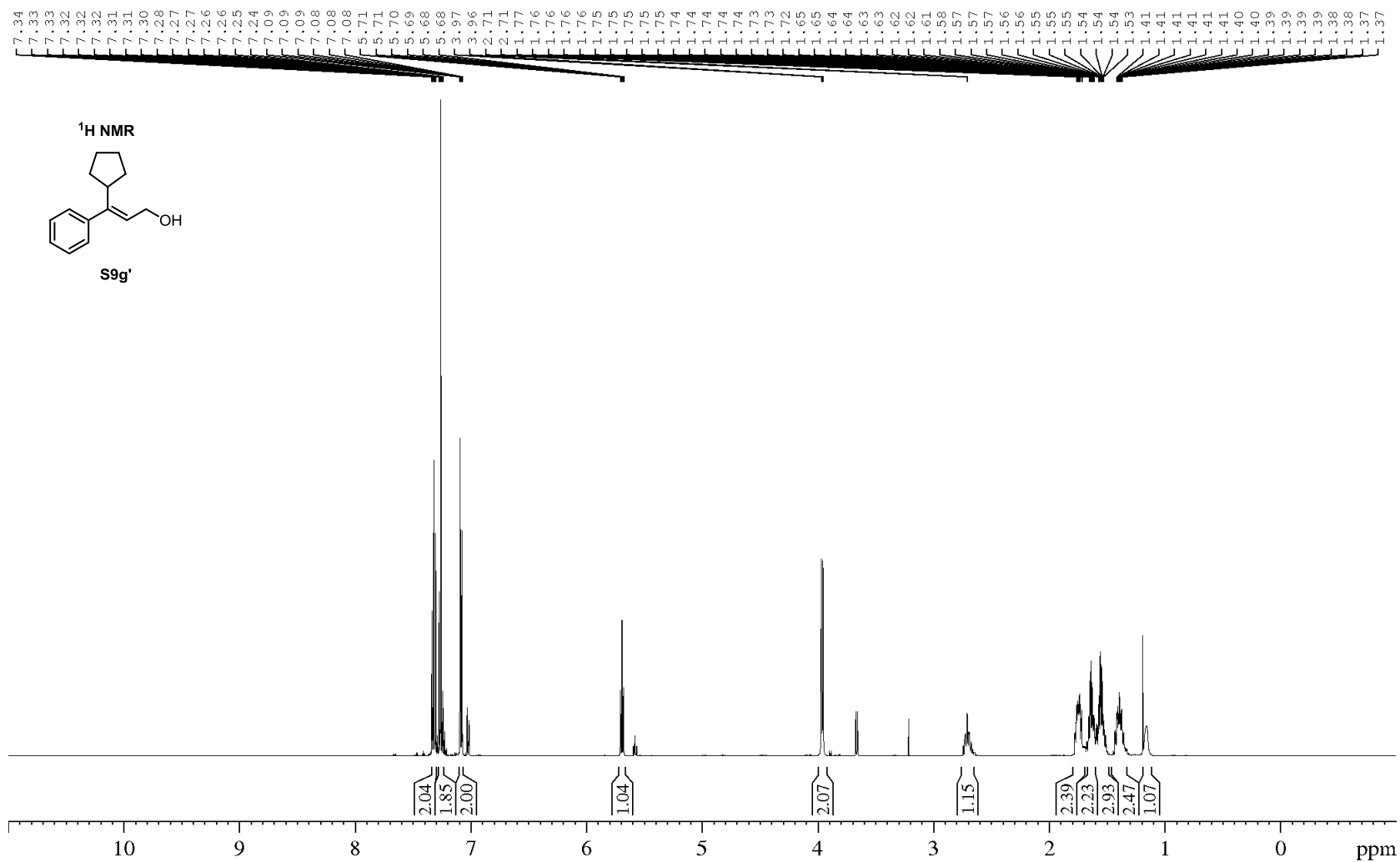


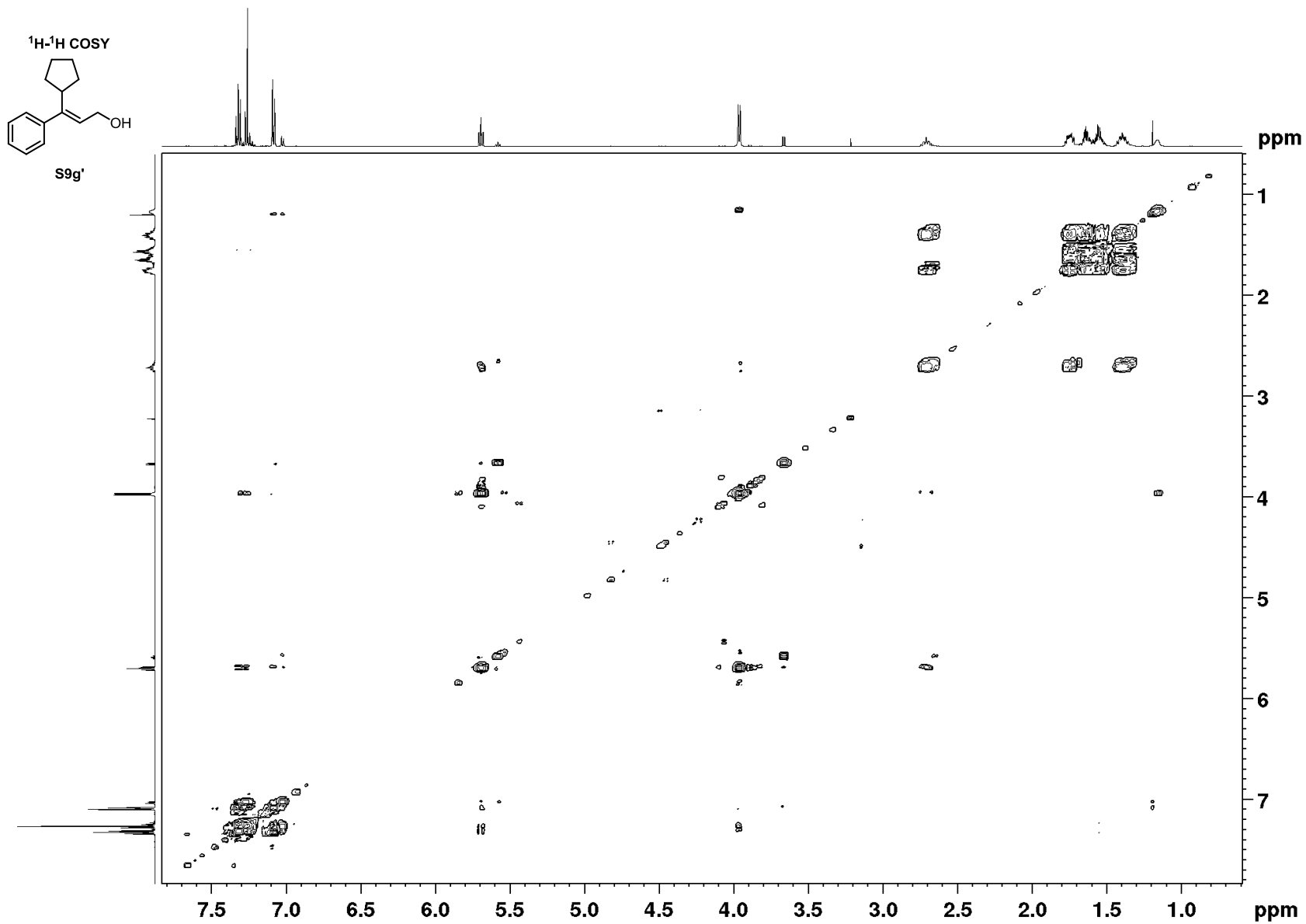


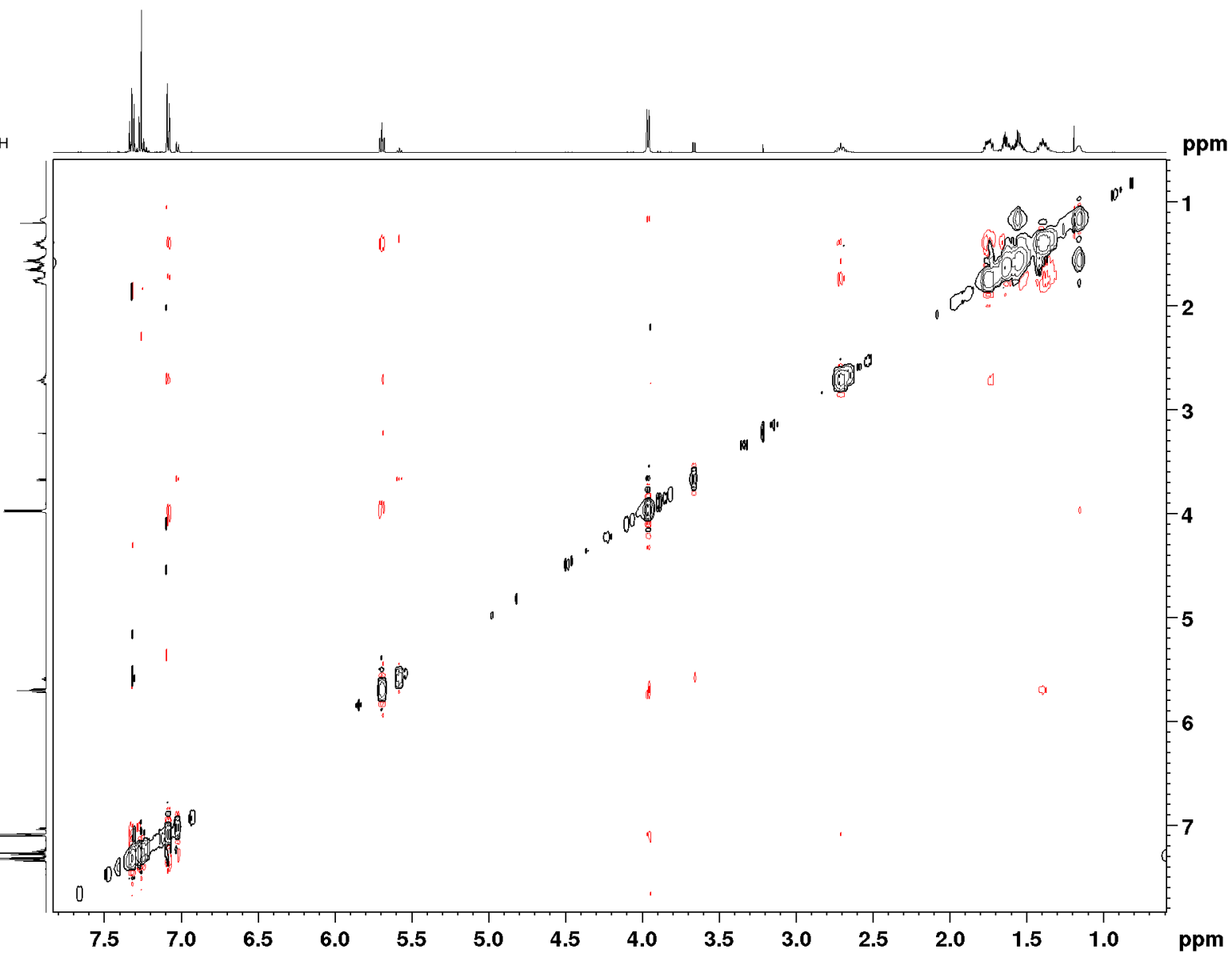
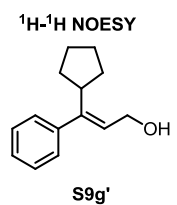


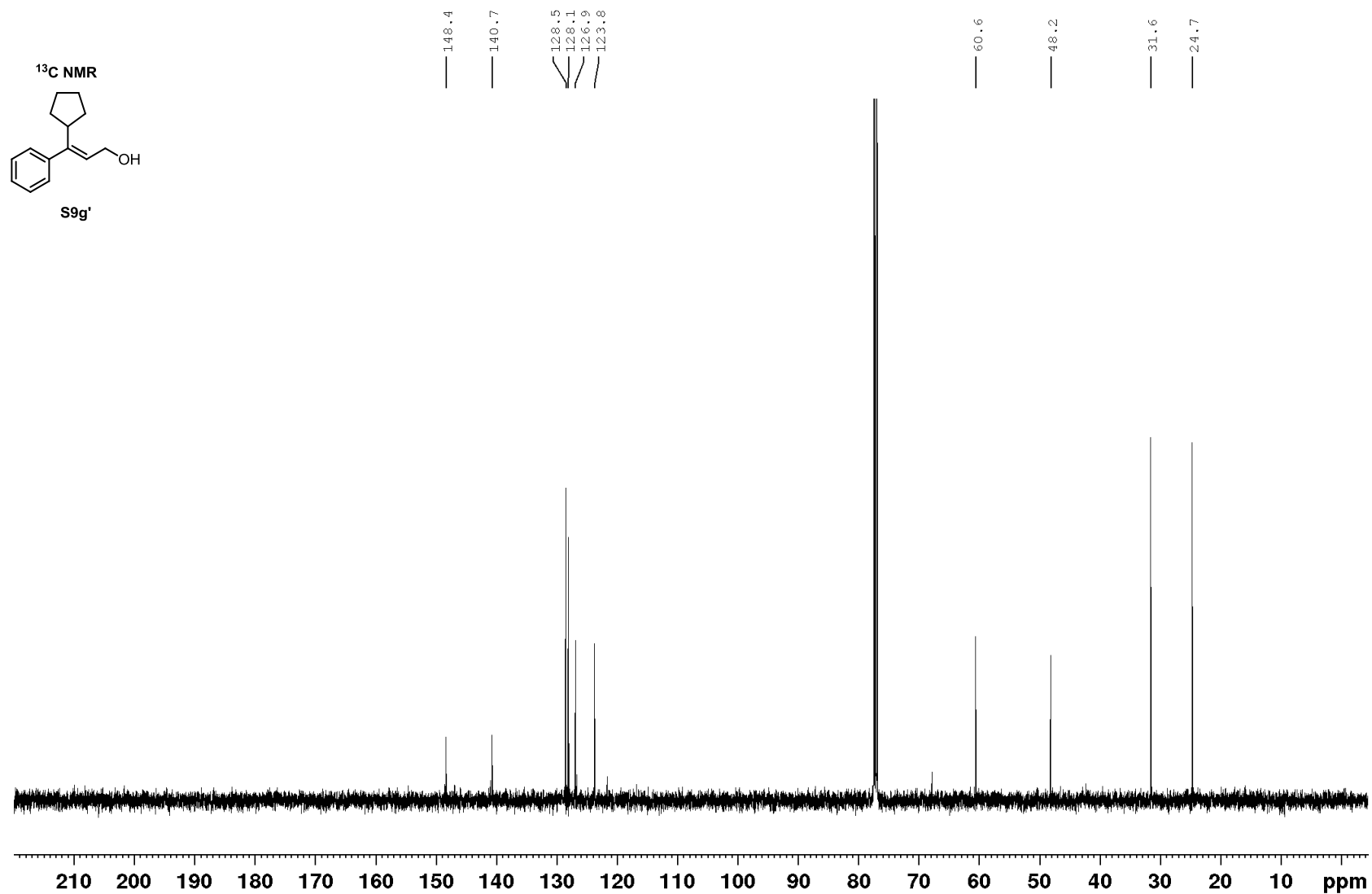


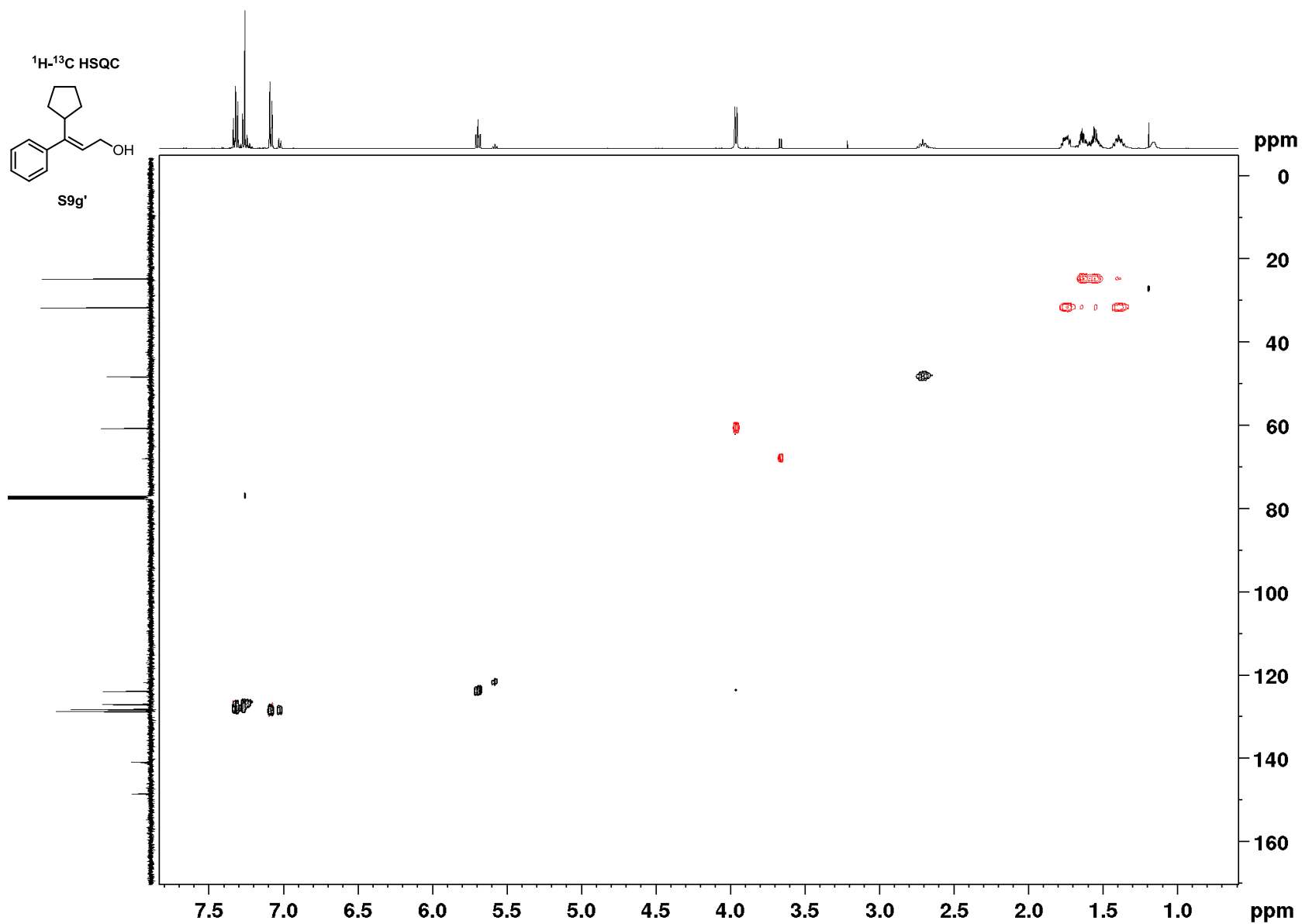


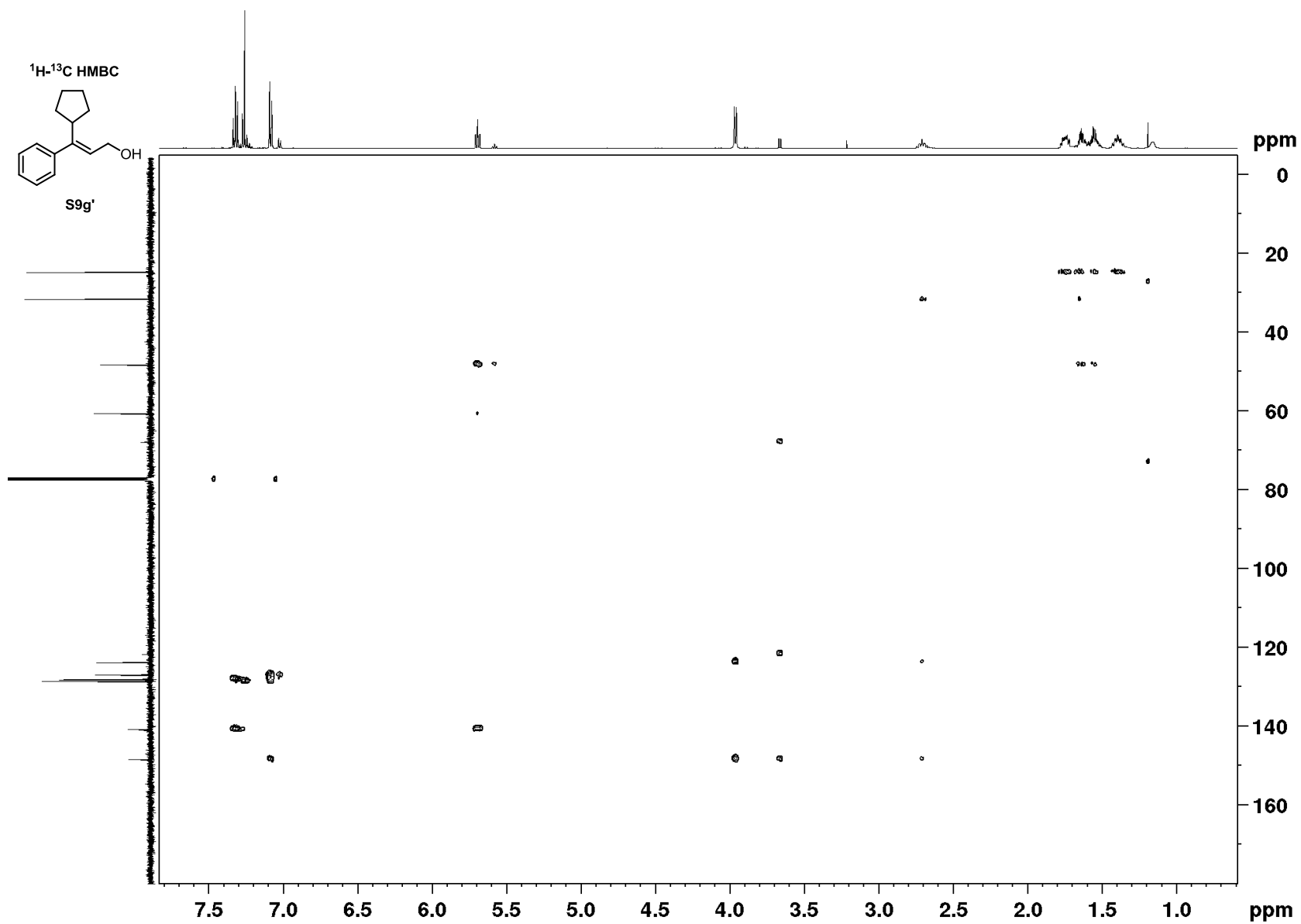


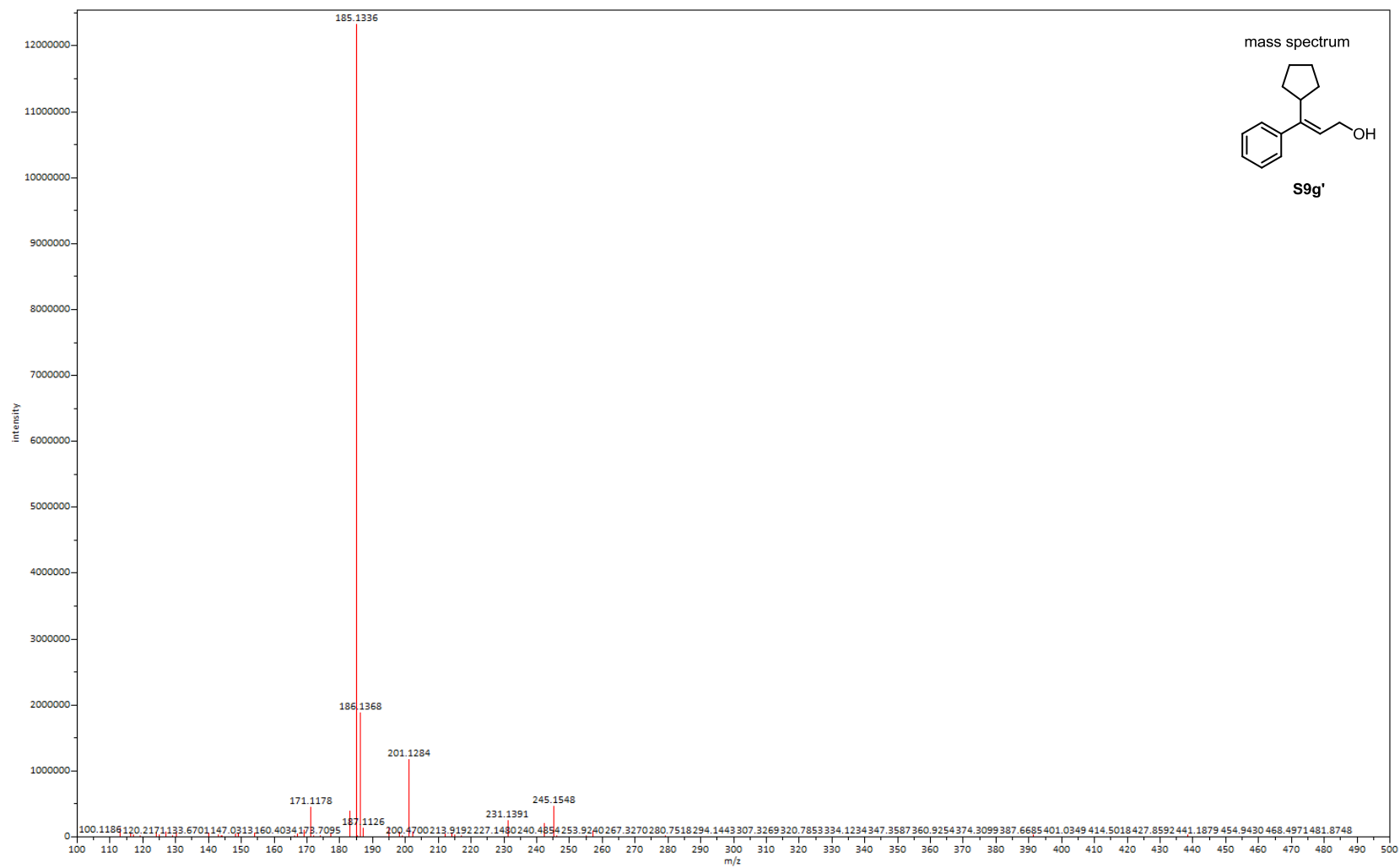


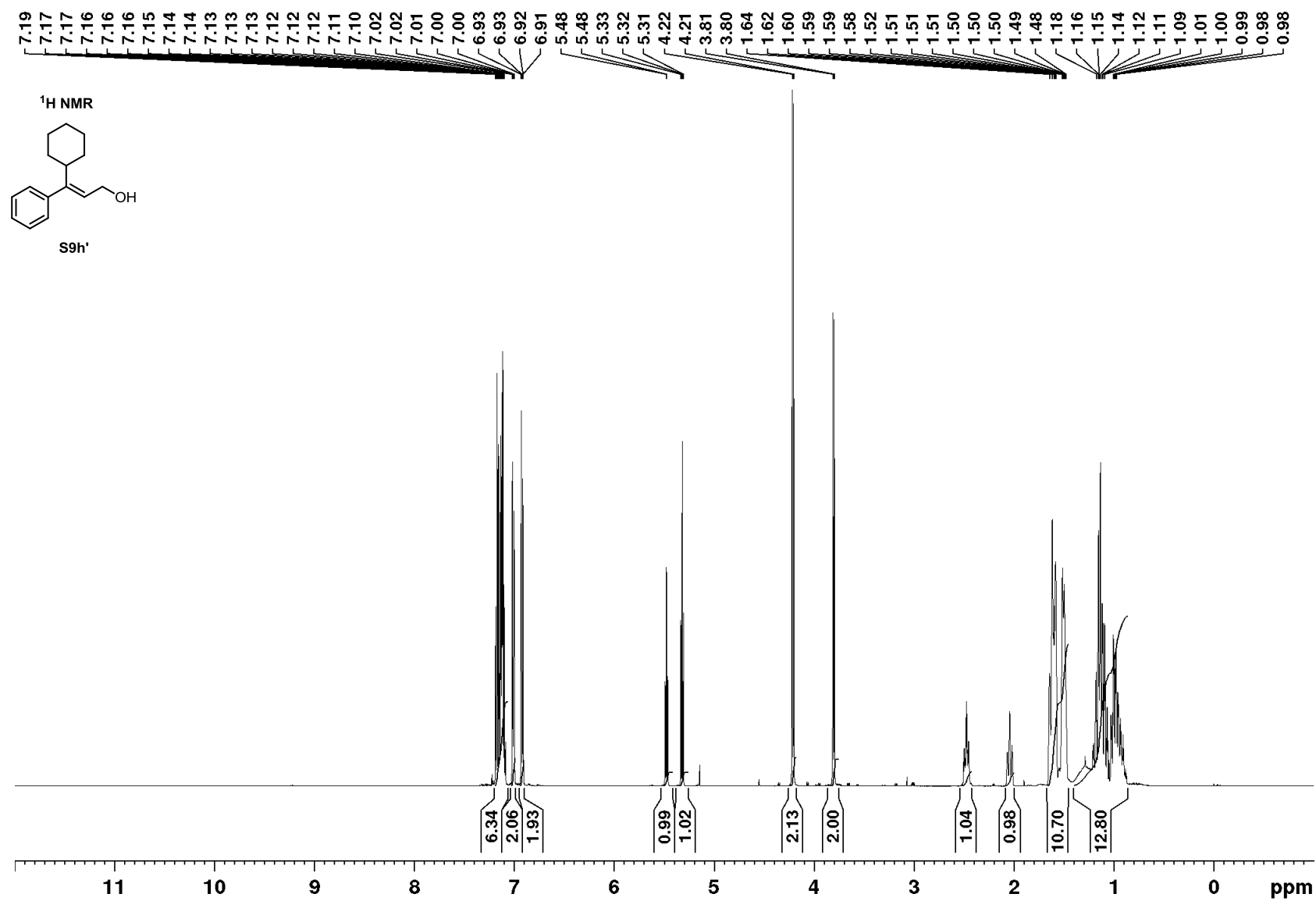


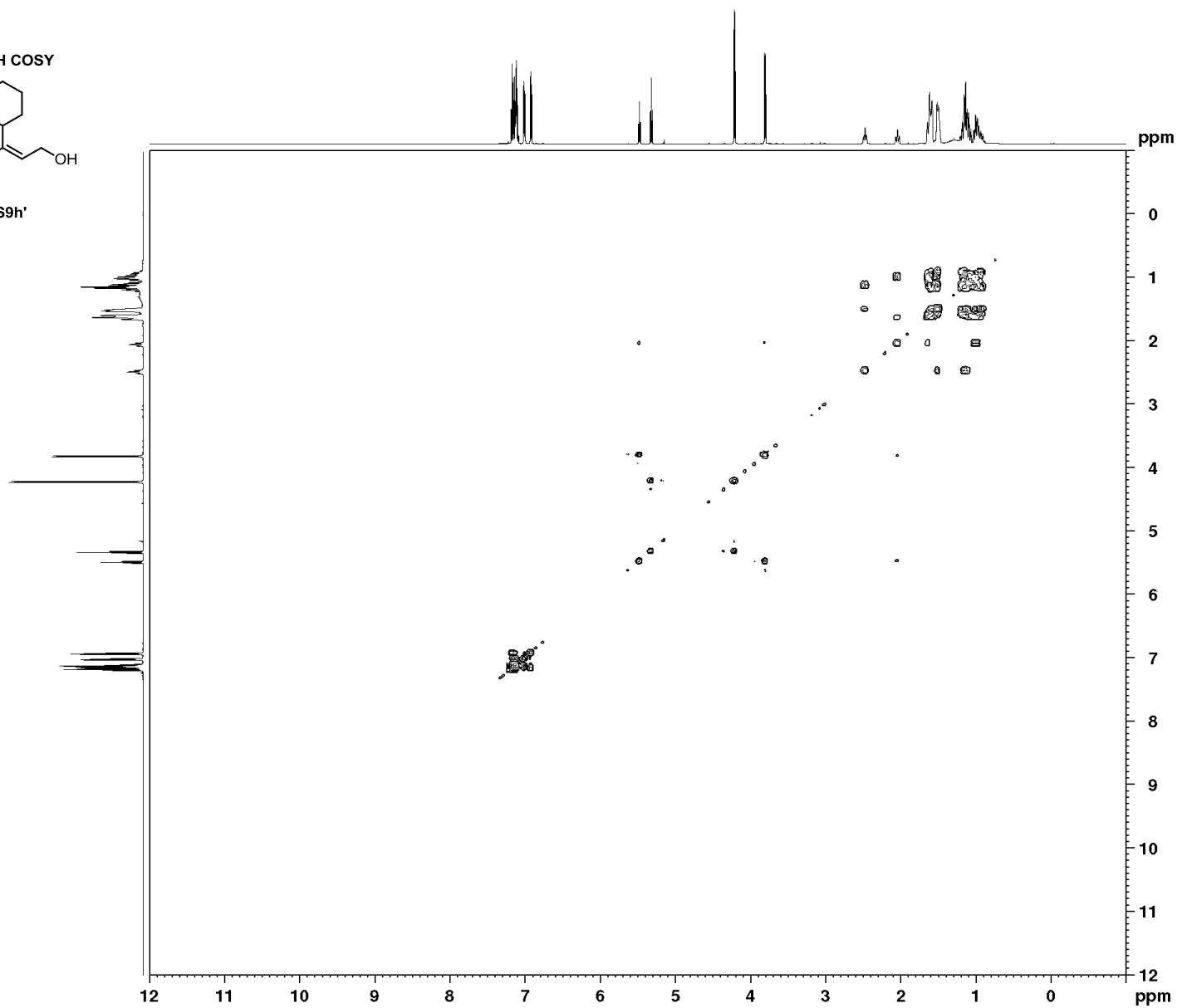
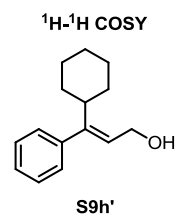




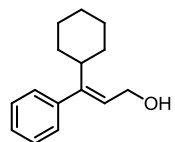




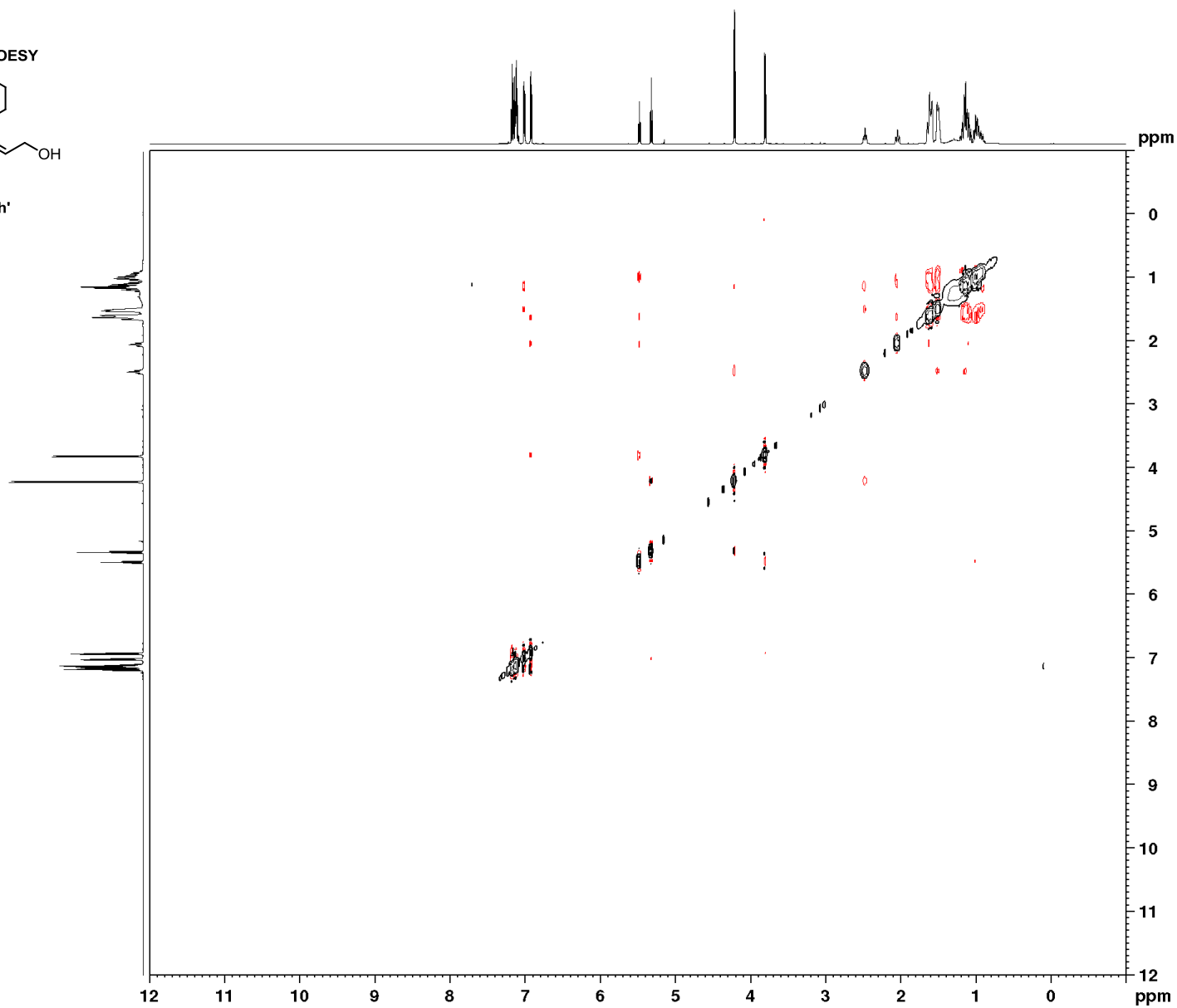


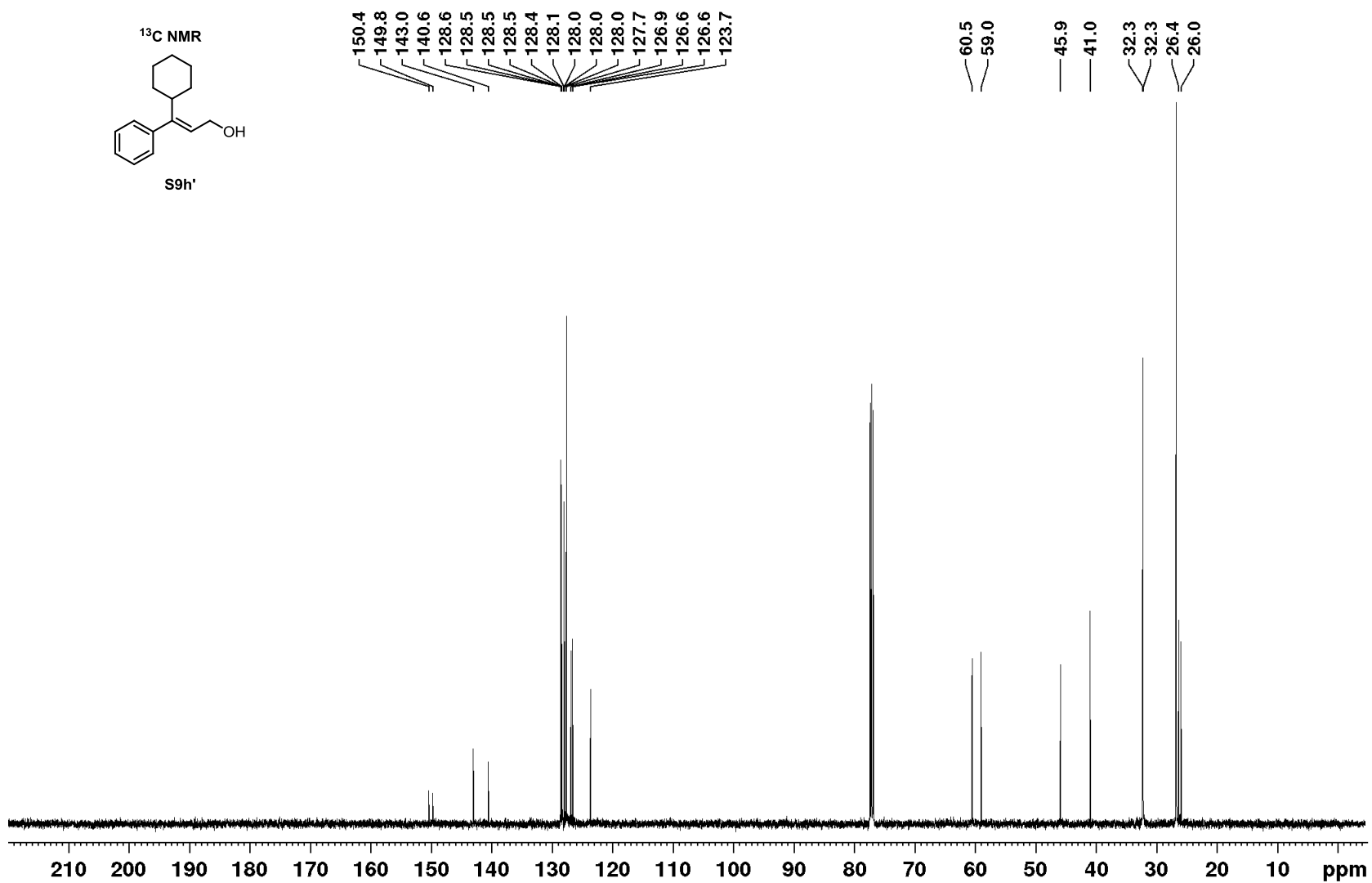


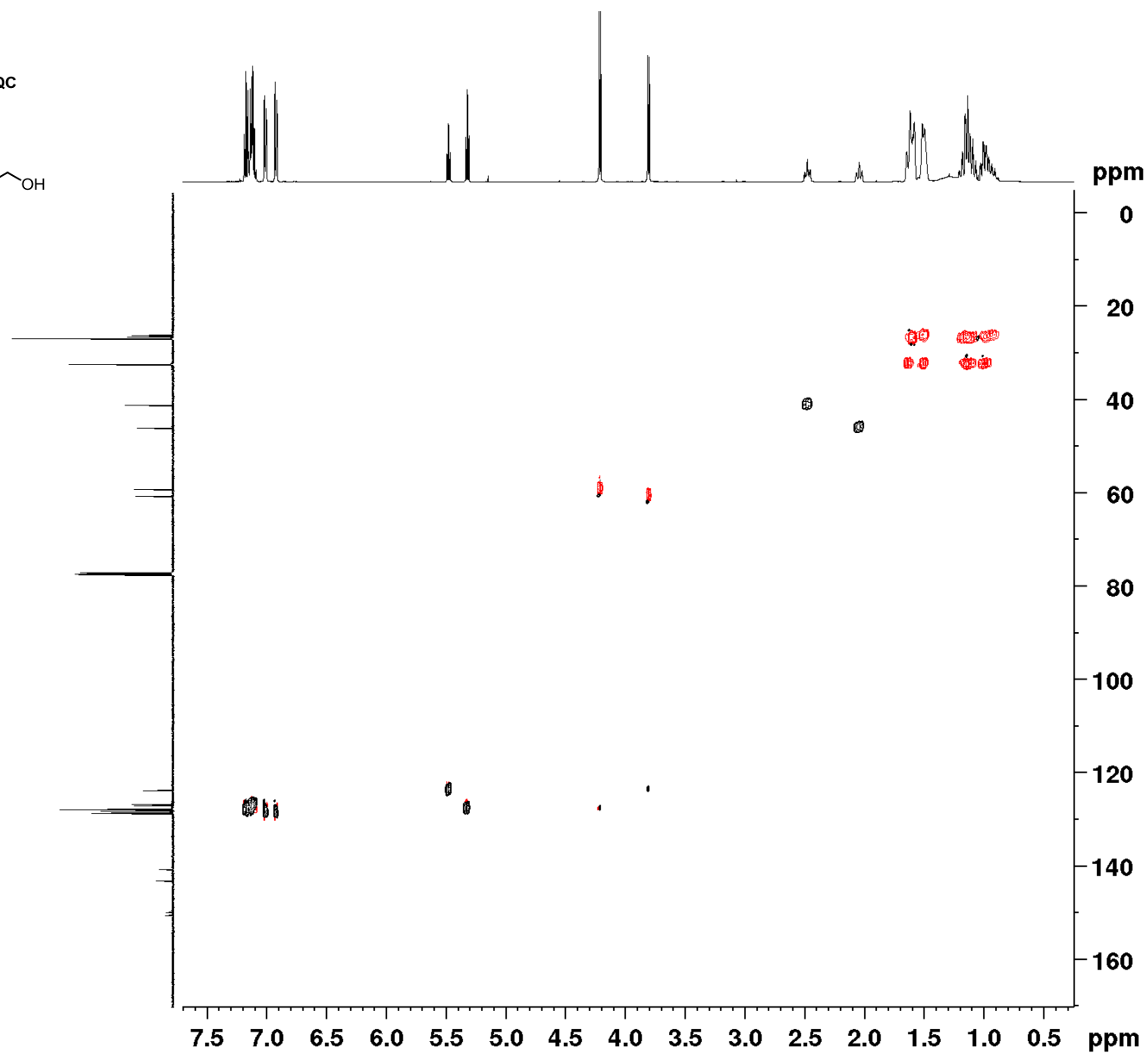
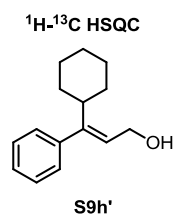
¹H-¹H NOESY

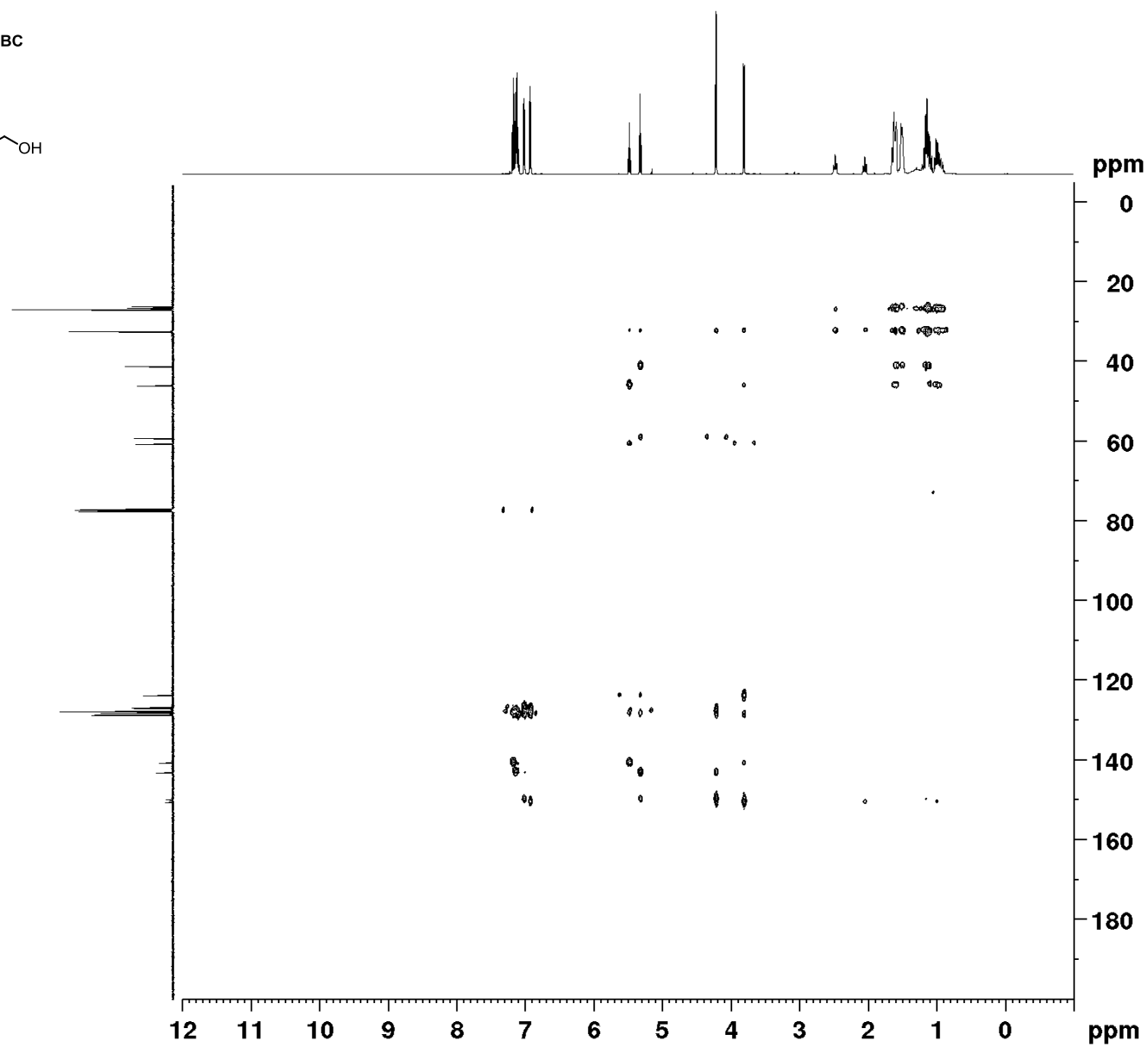
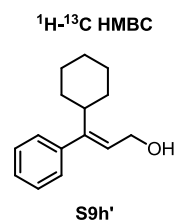


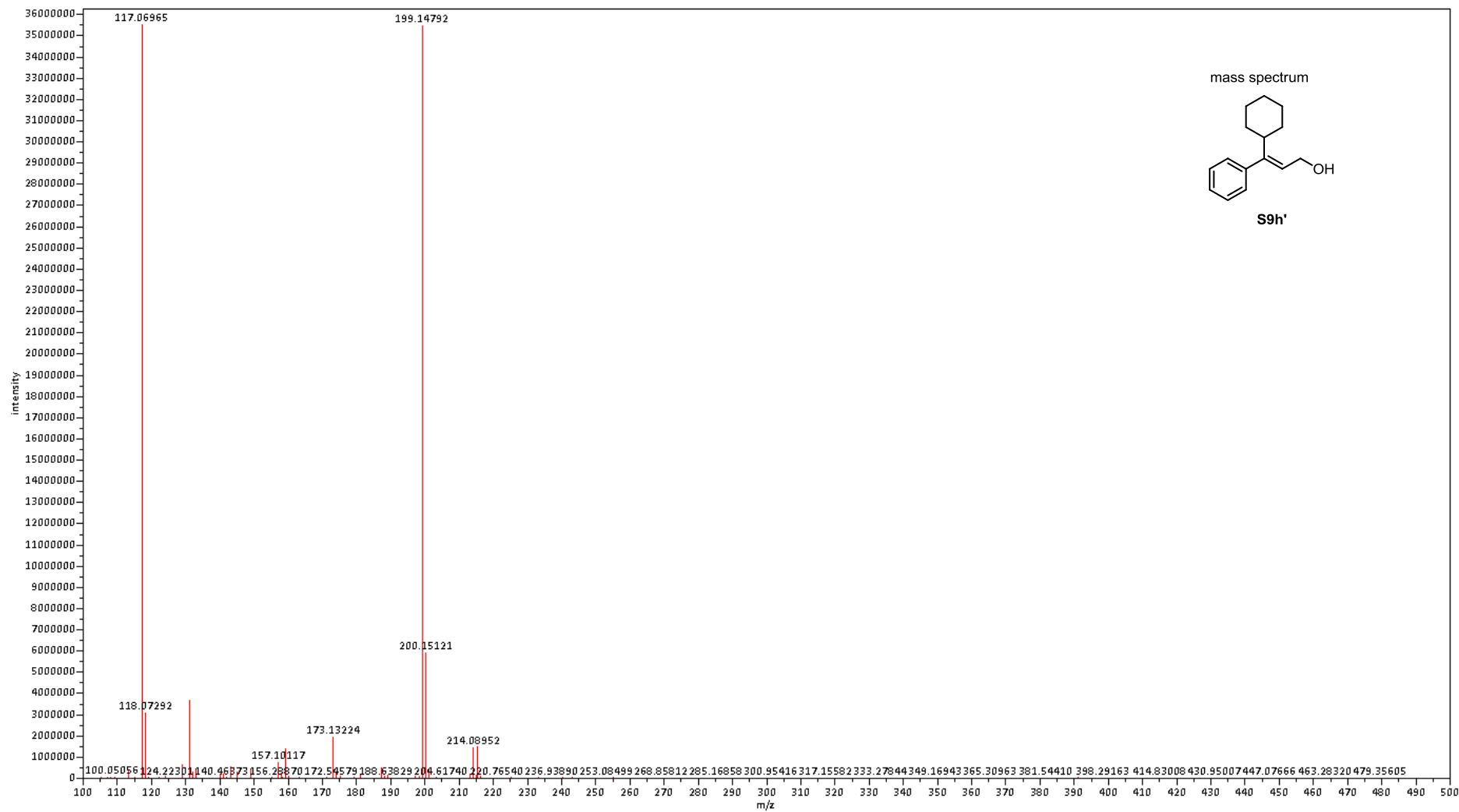
S9h'

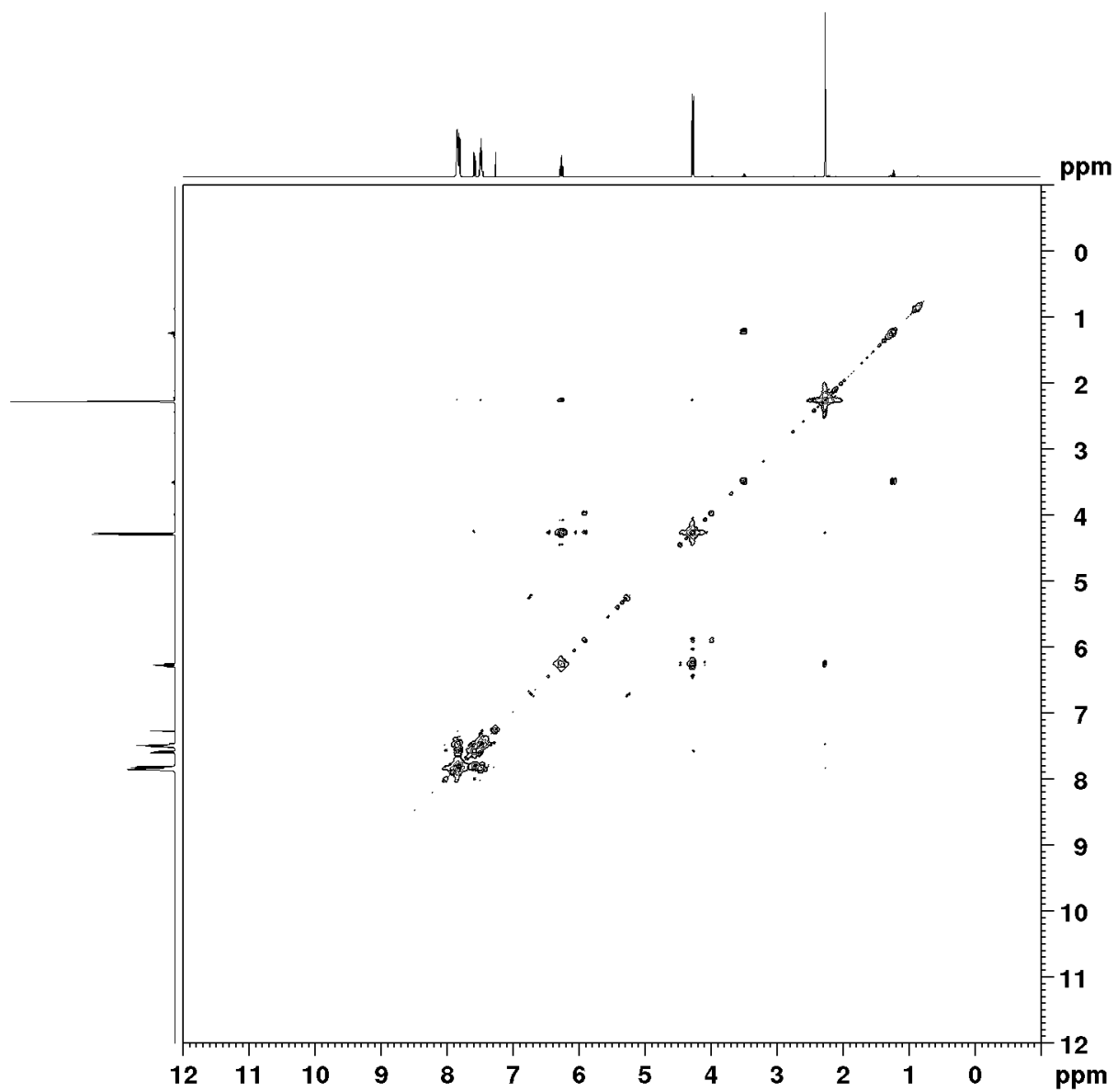




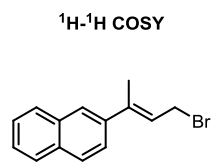
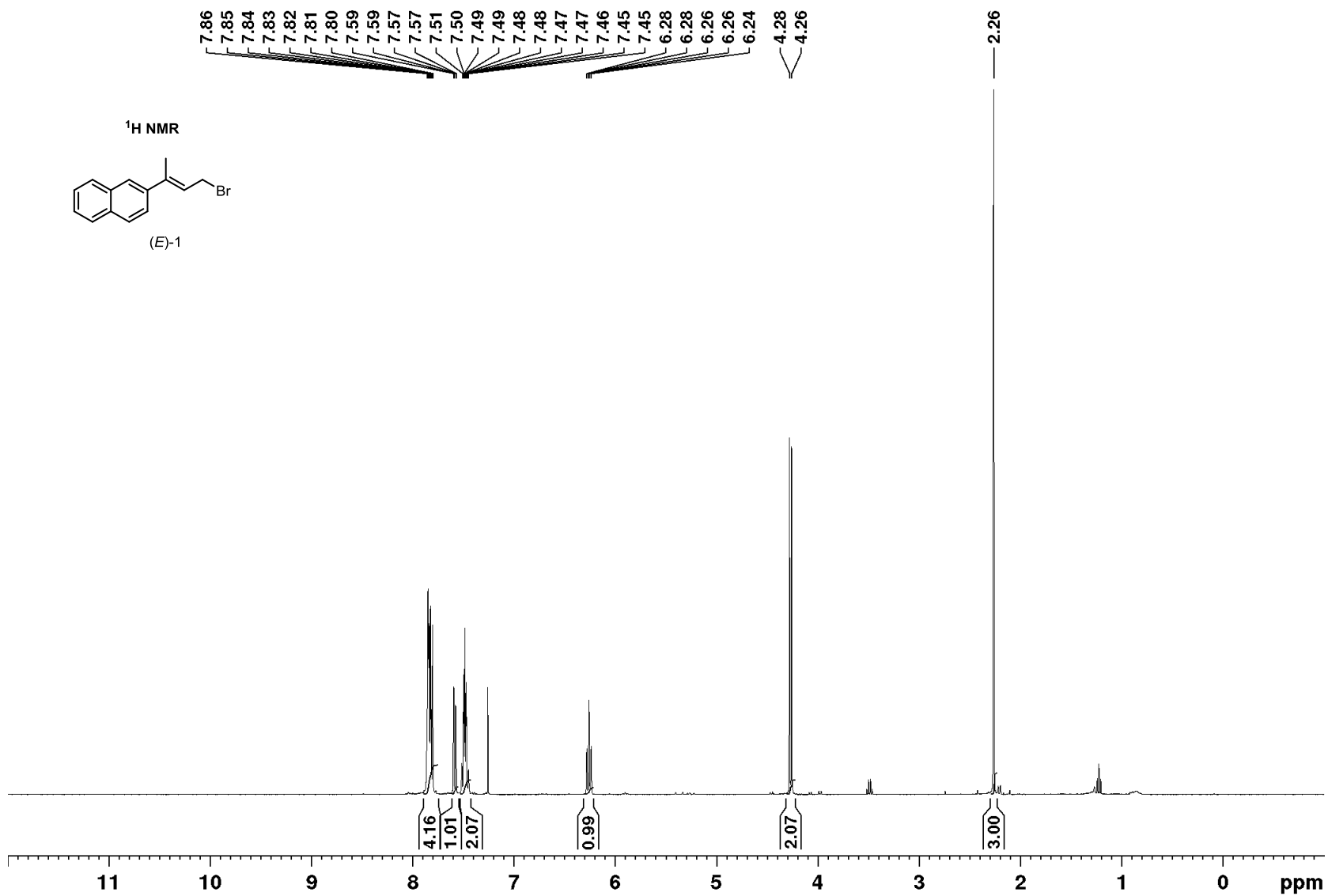




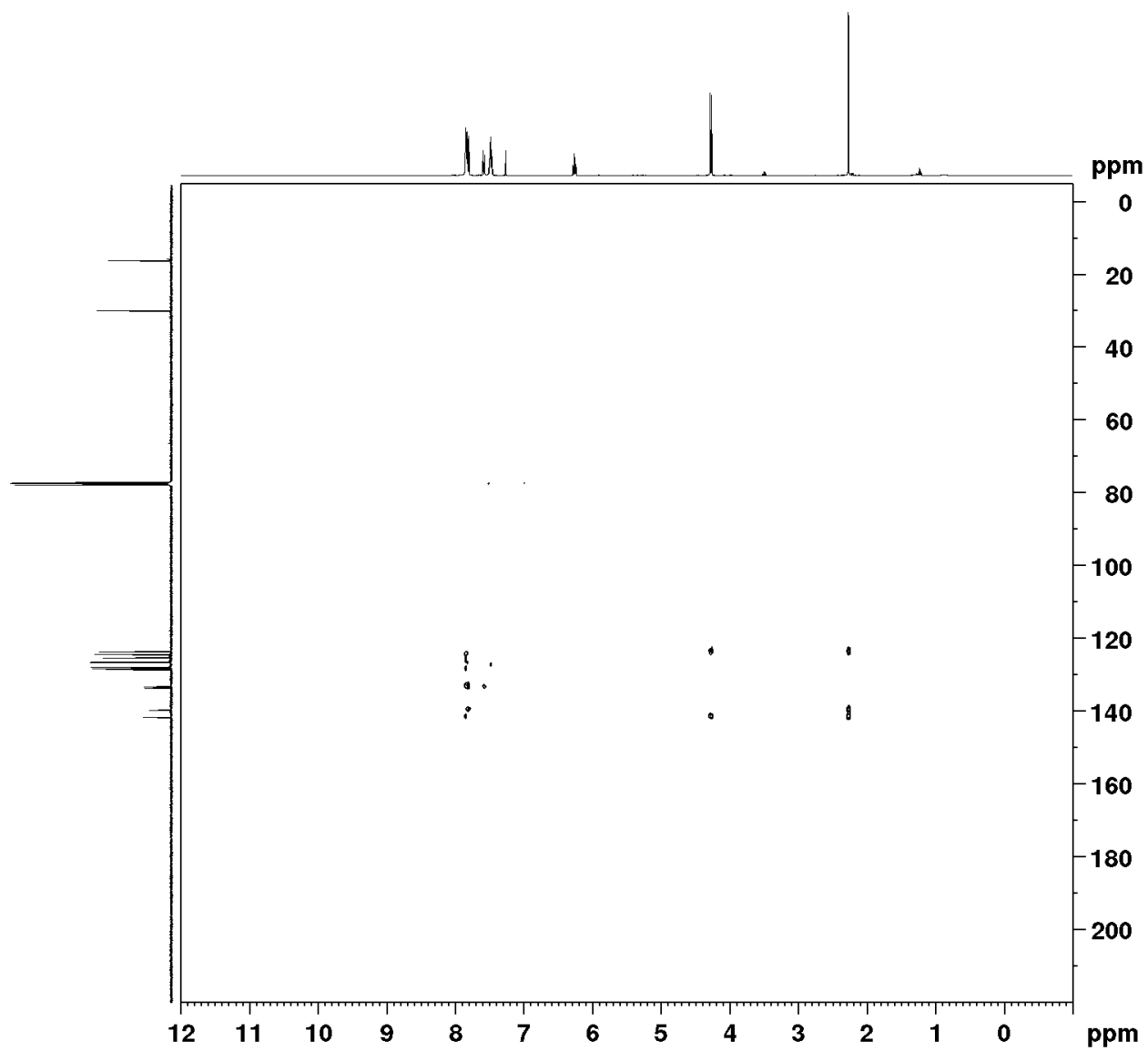




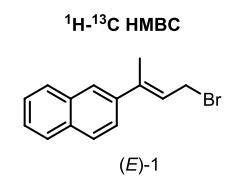
S330

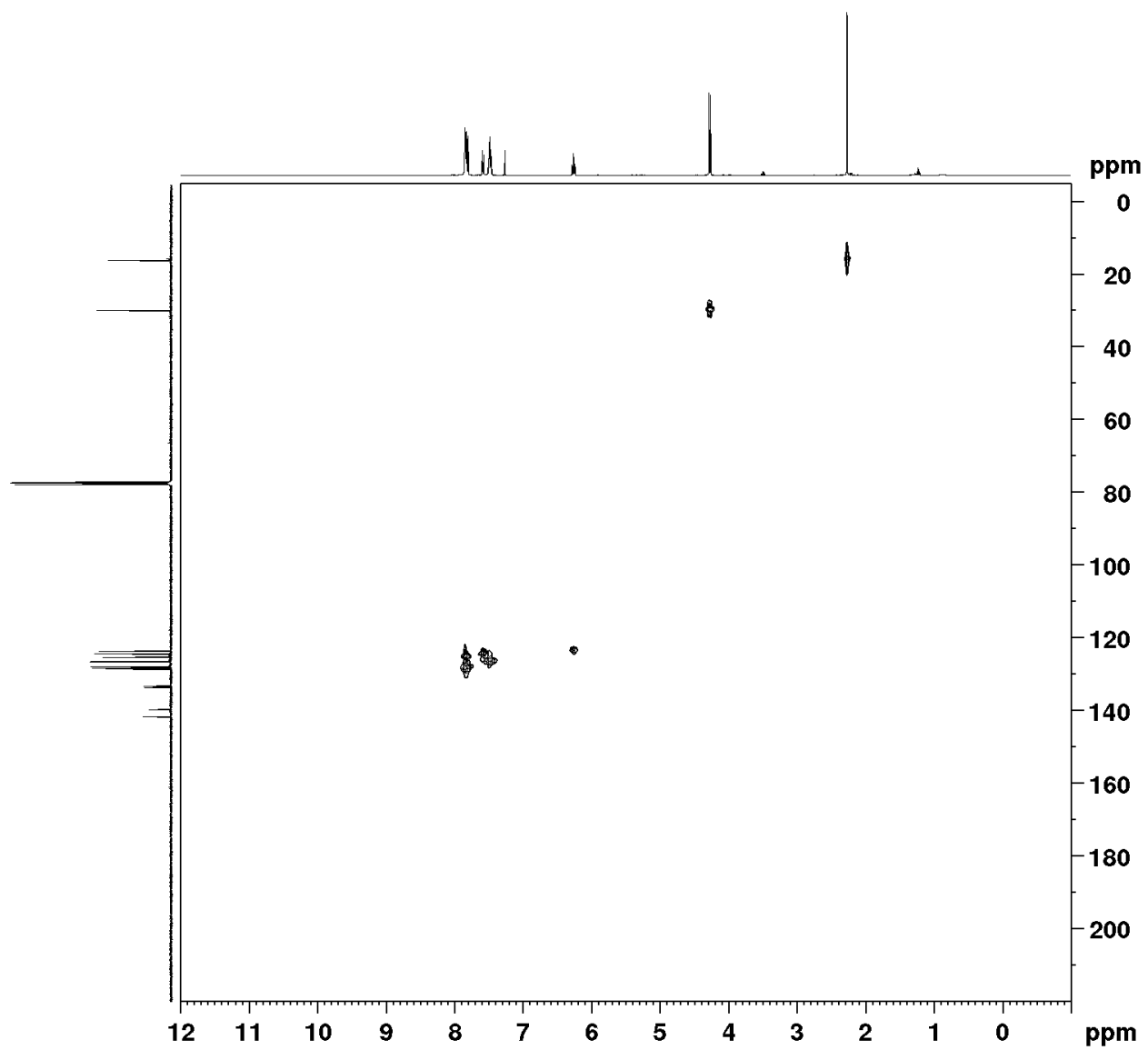


S331

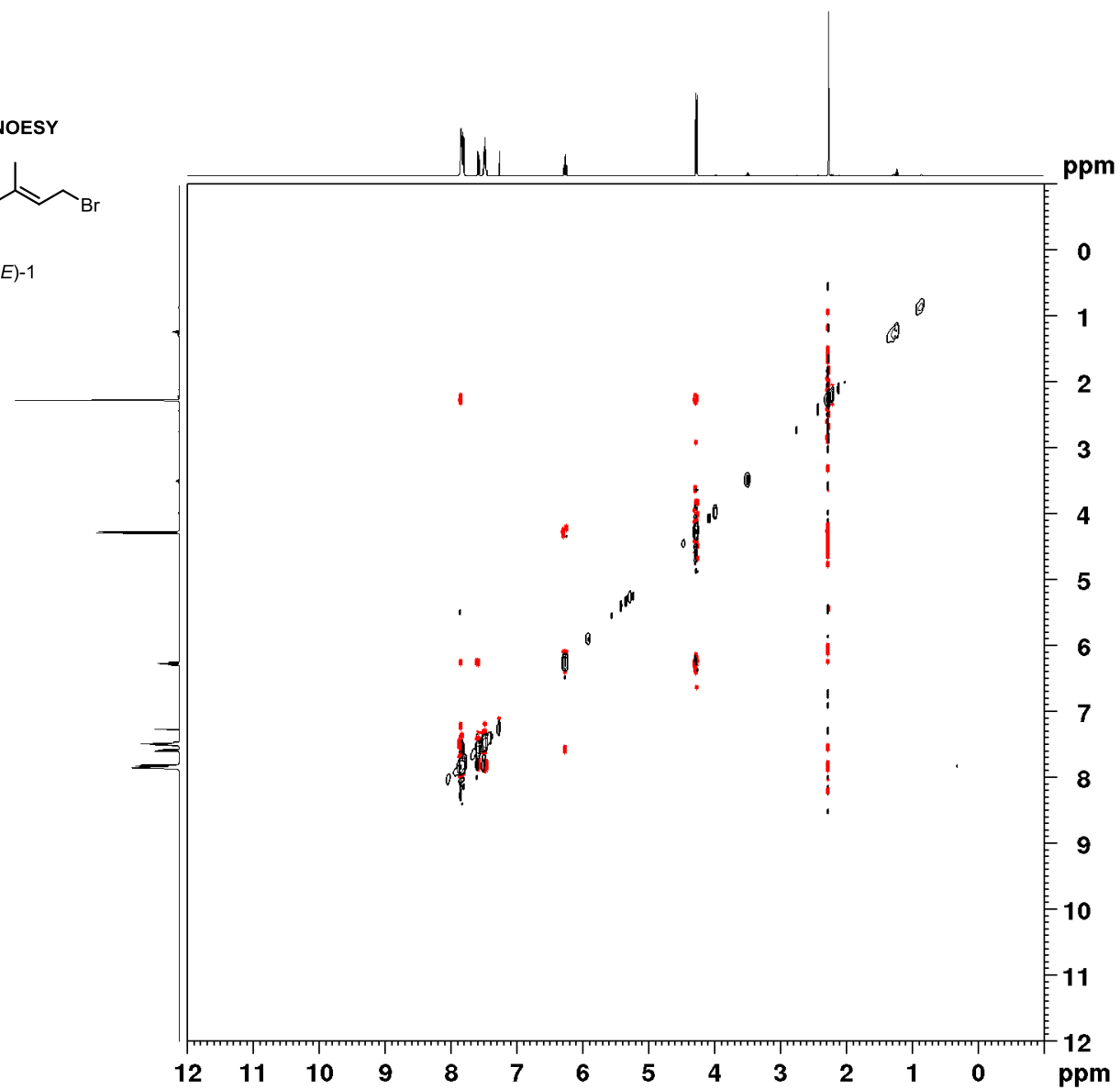
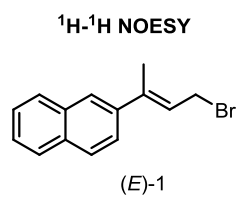


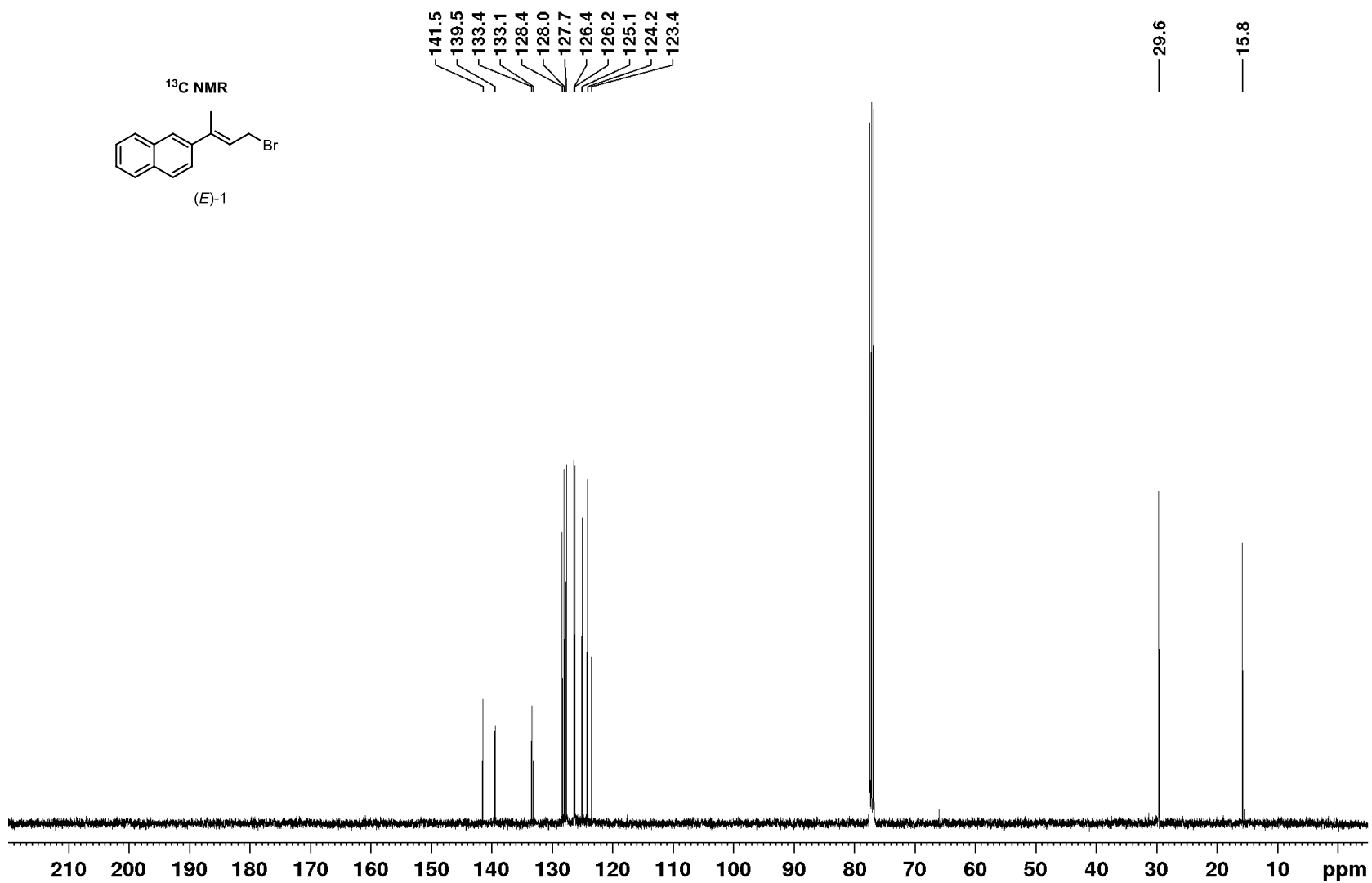
S332



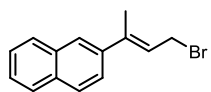


S333

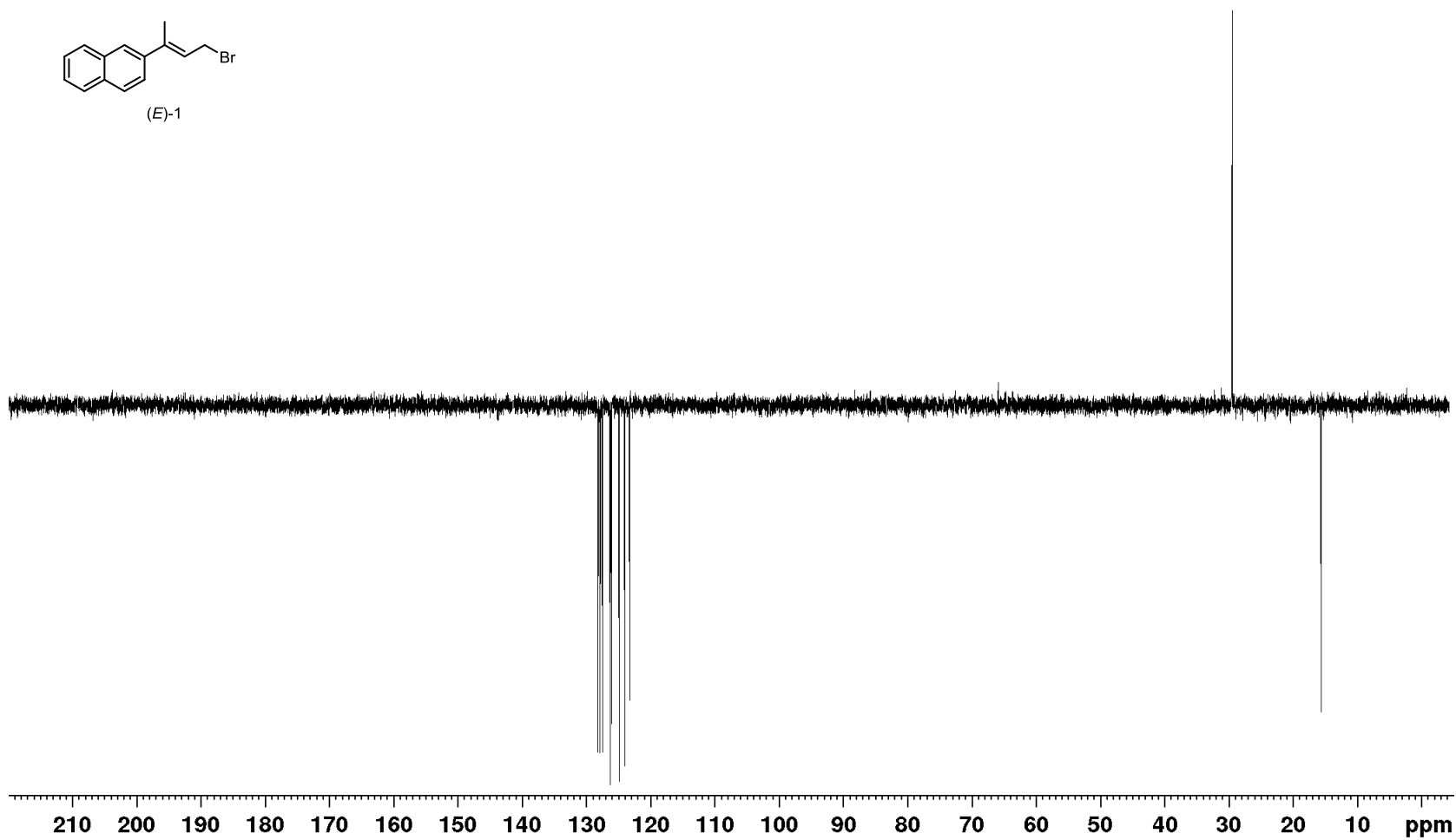


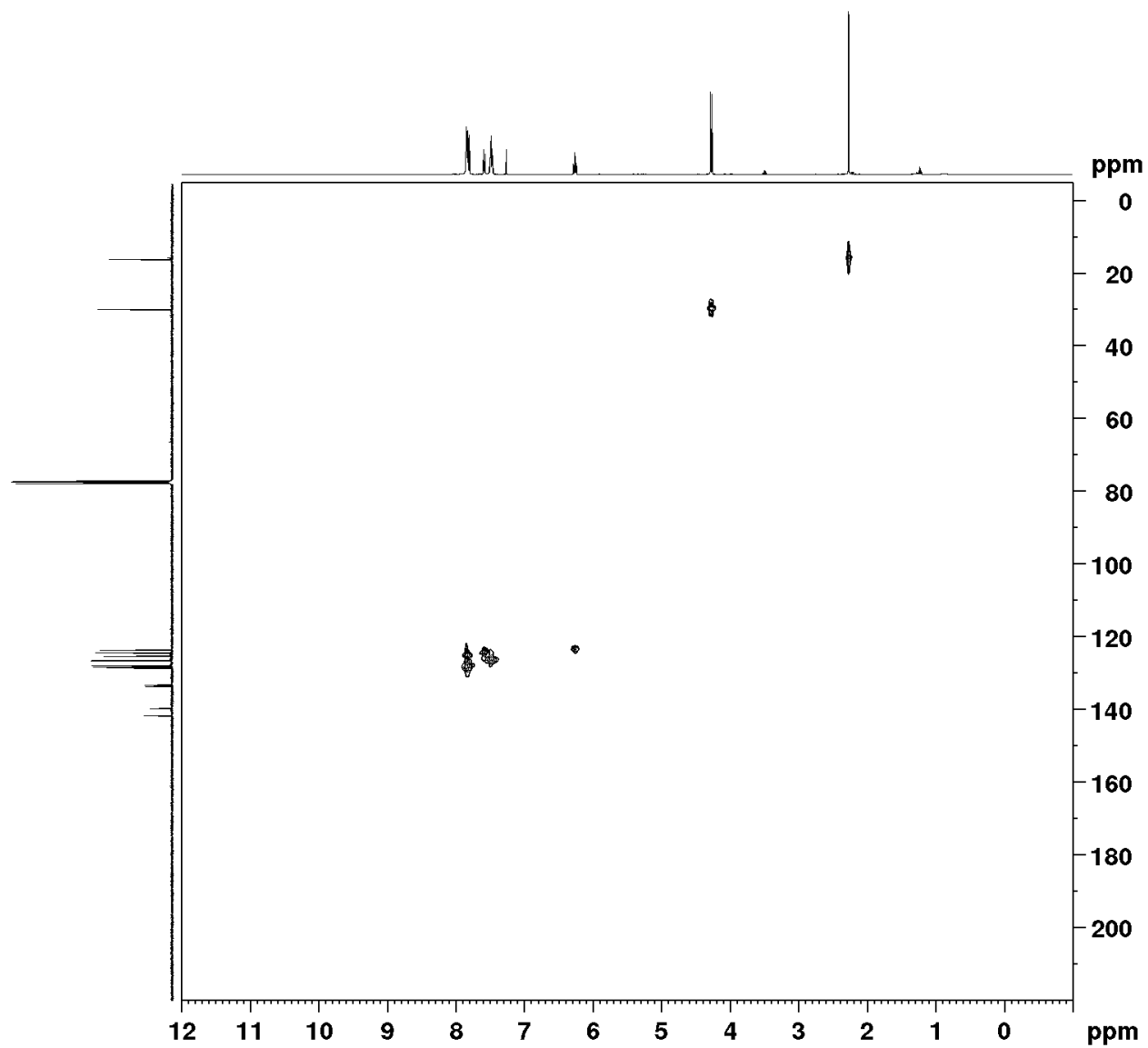
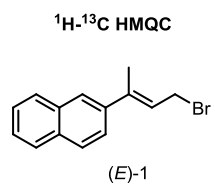


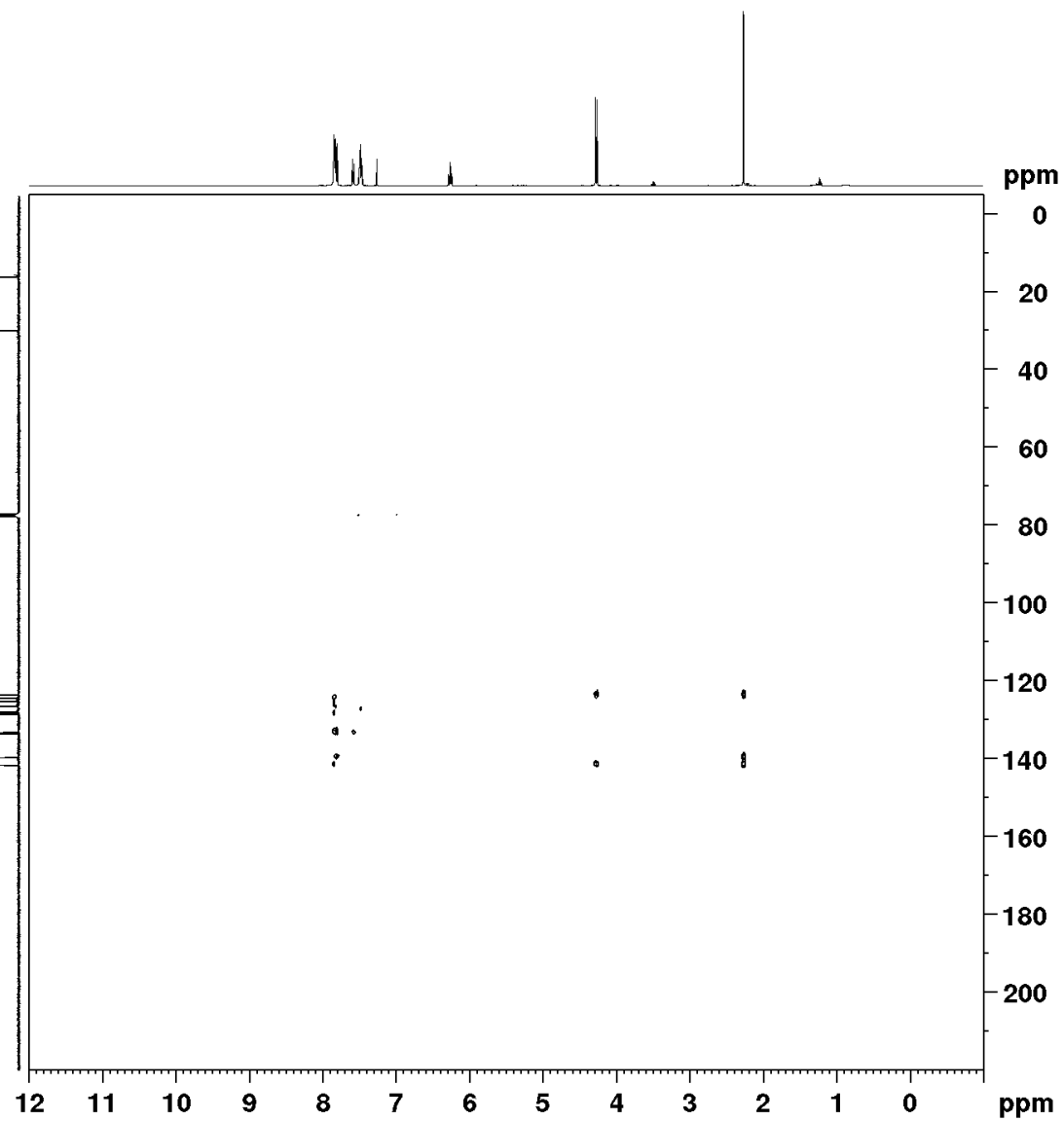
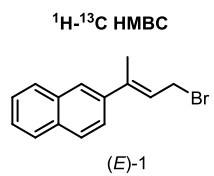
¹³C DEPT

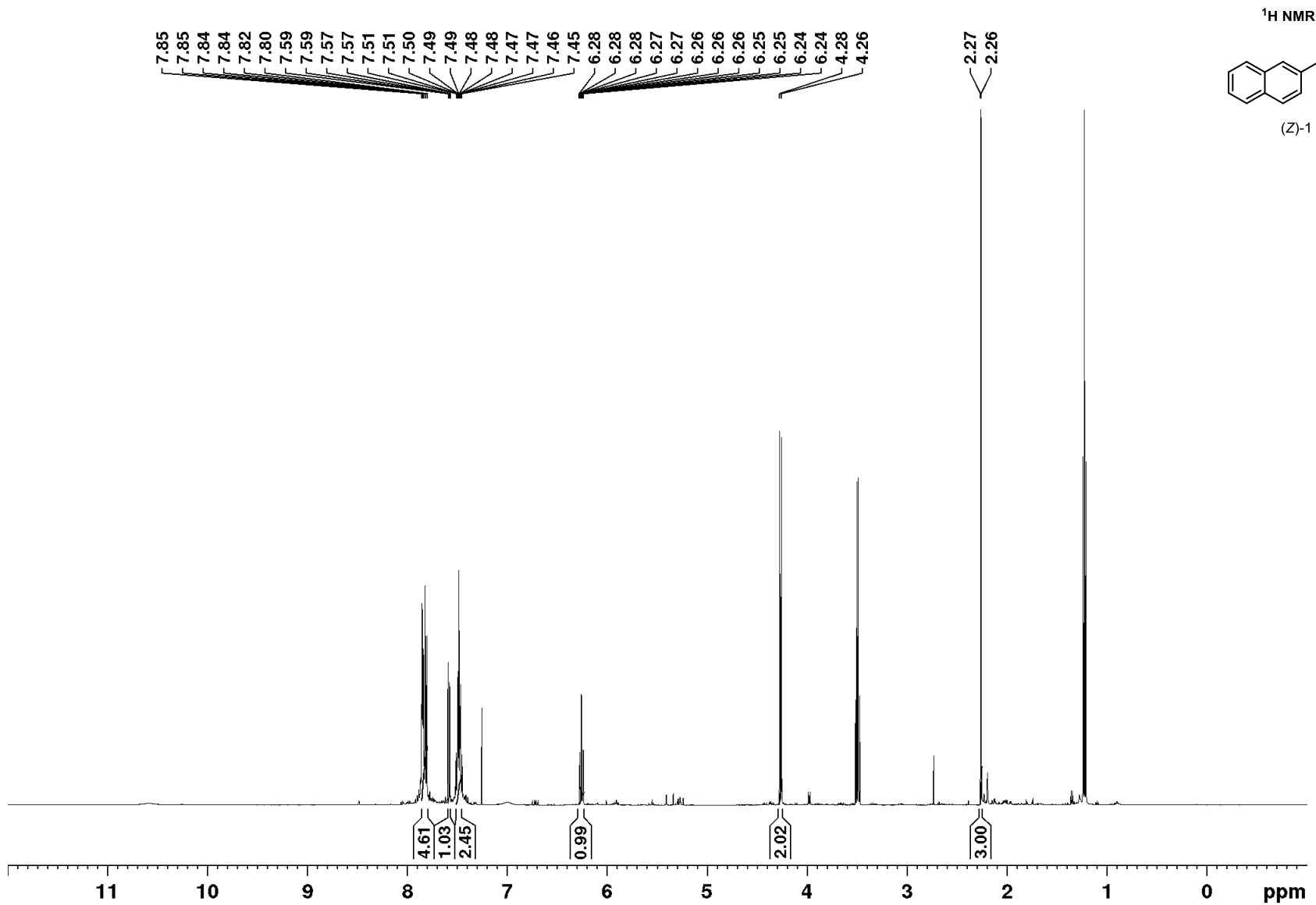


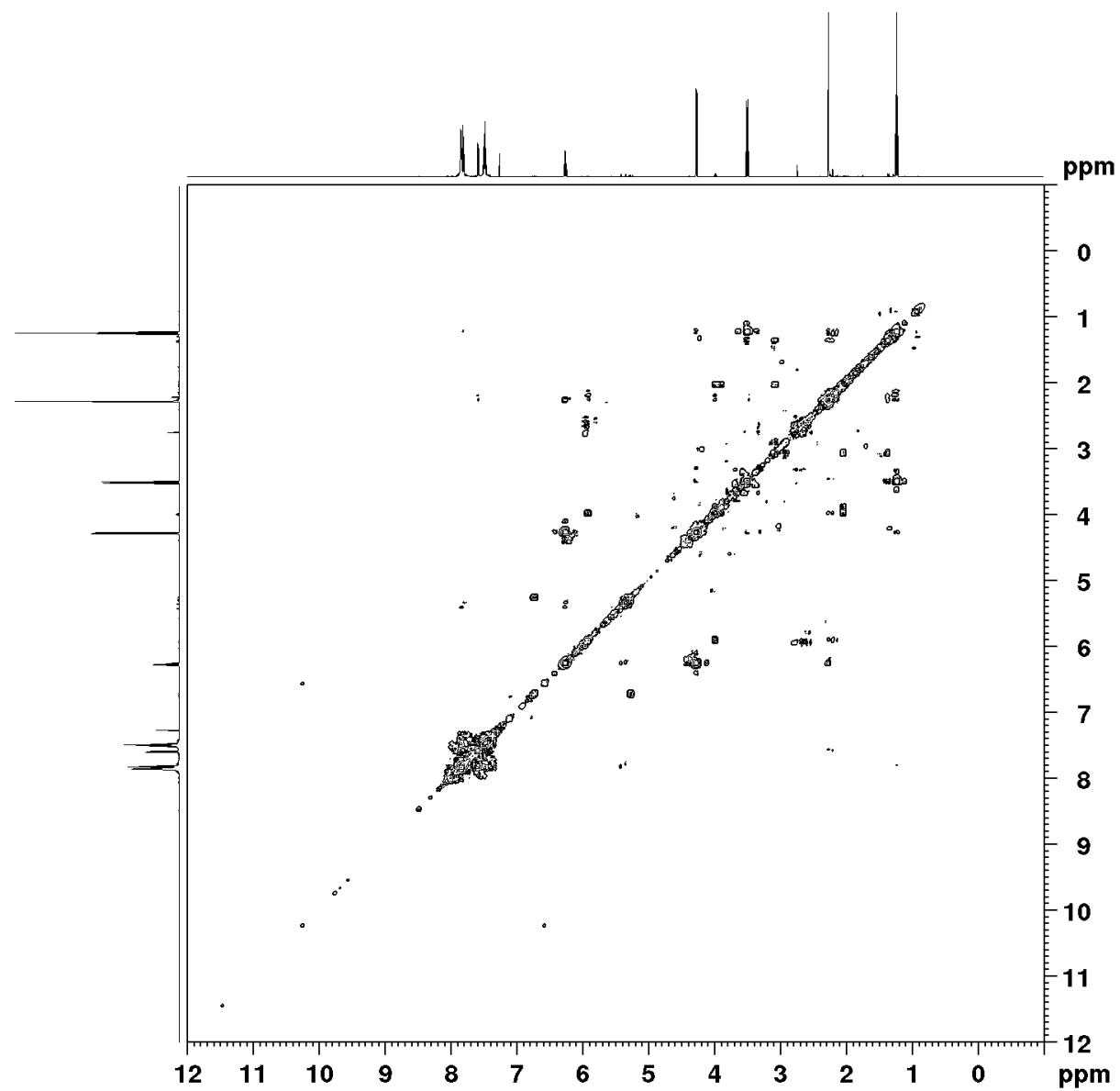
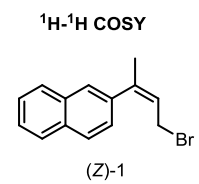
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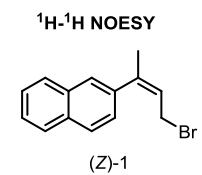
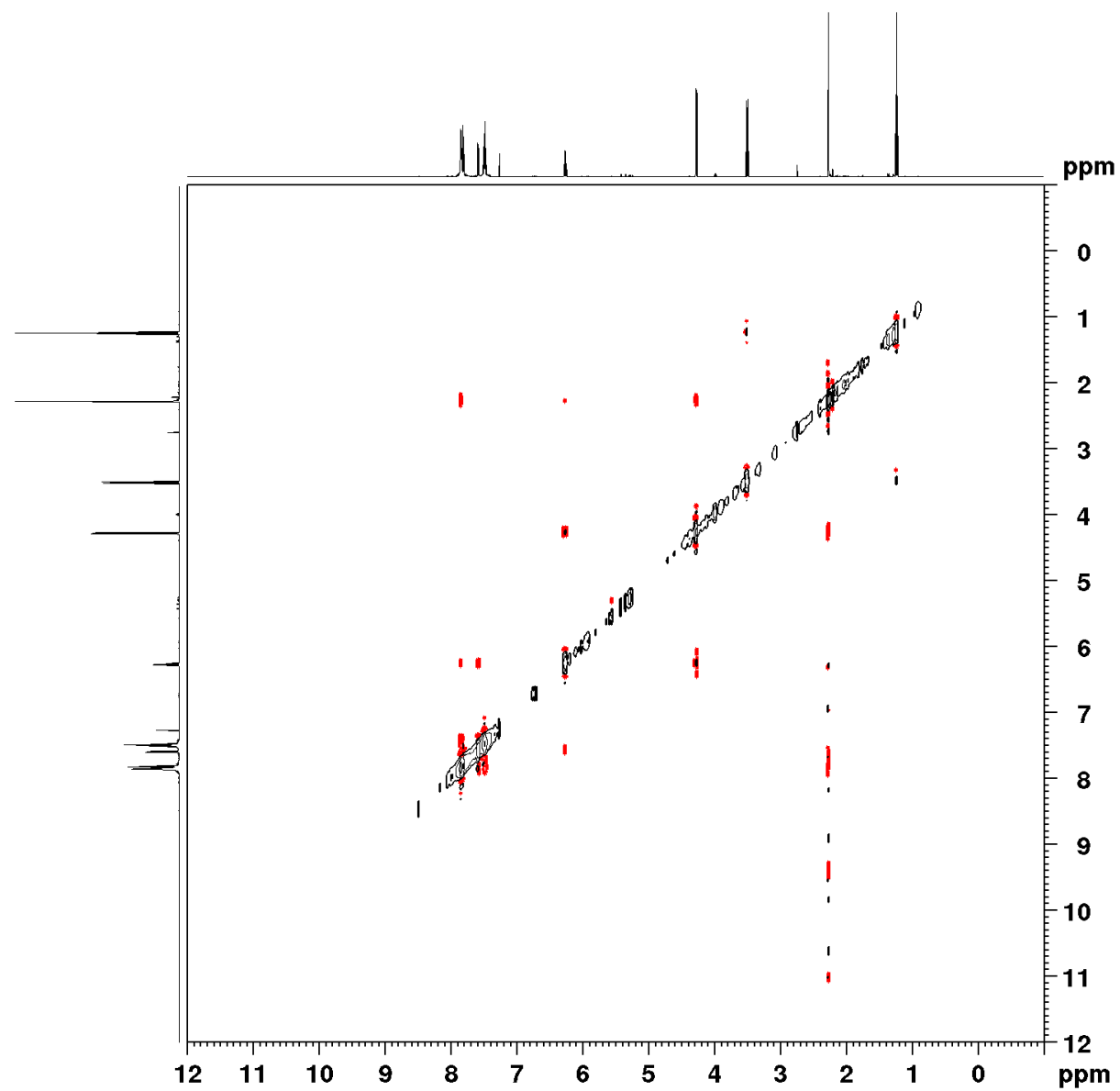


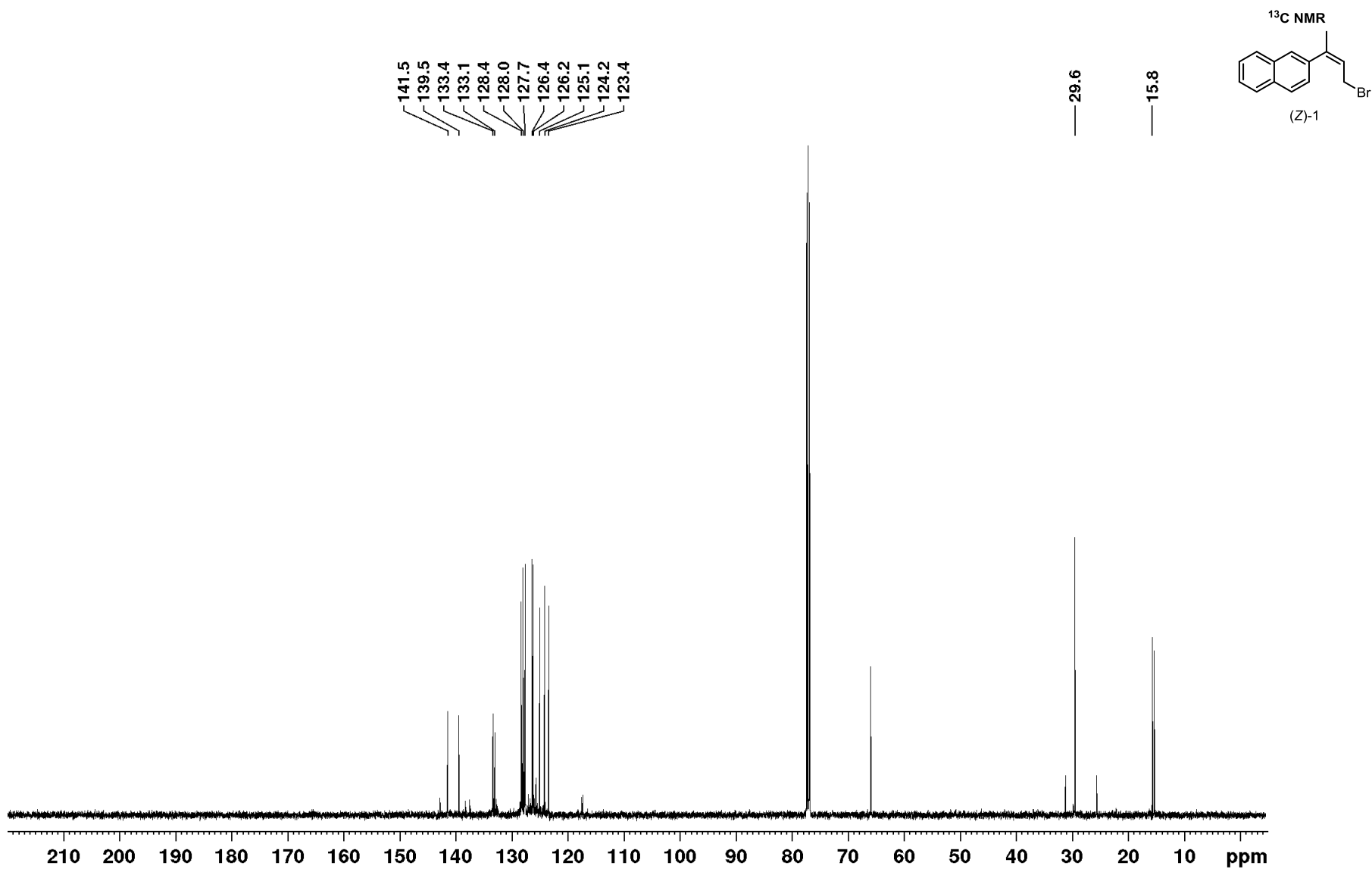


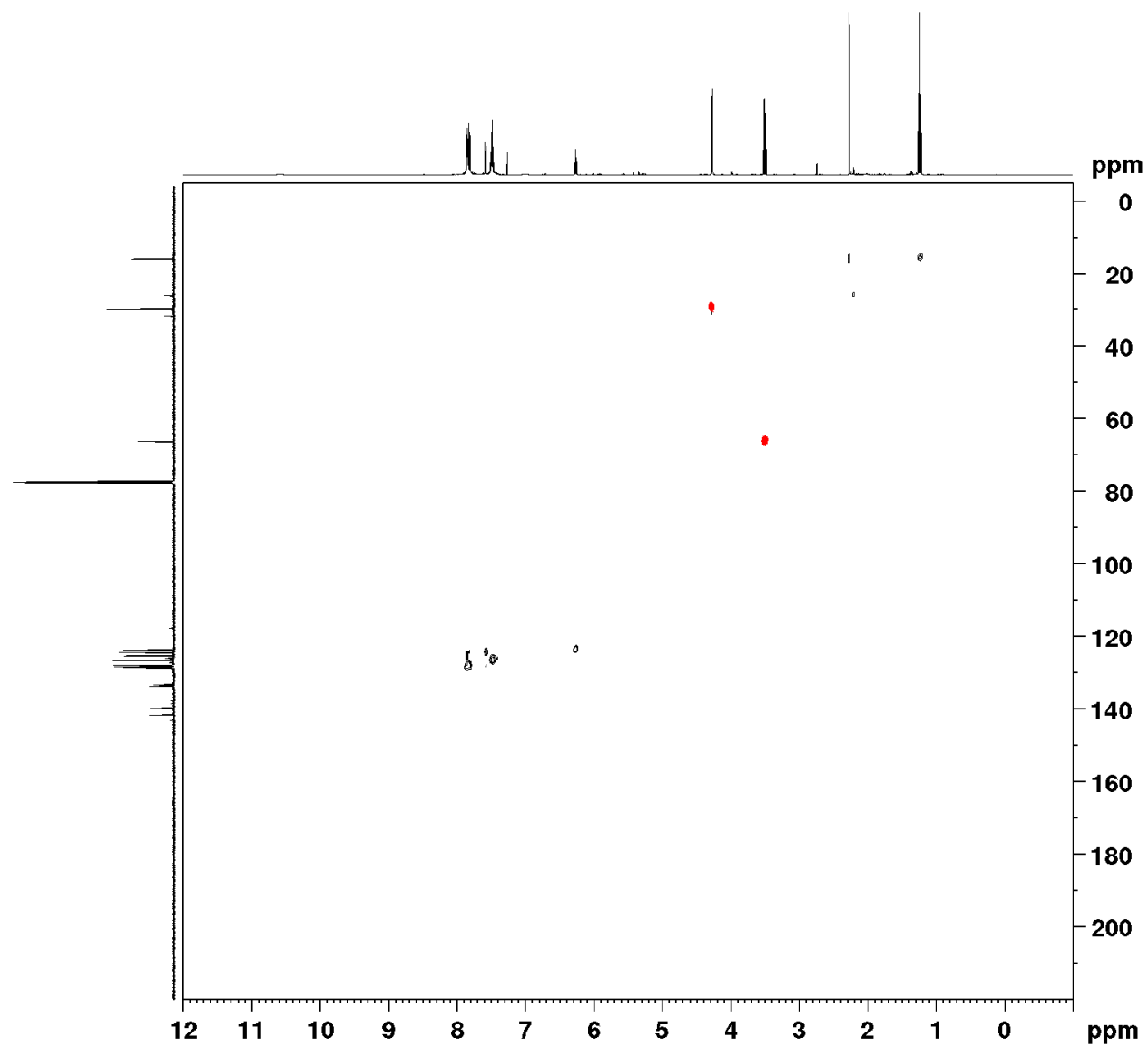
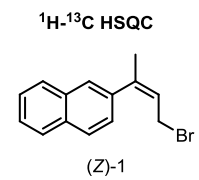


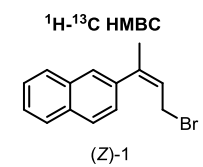
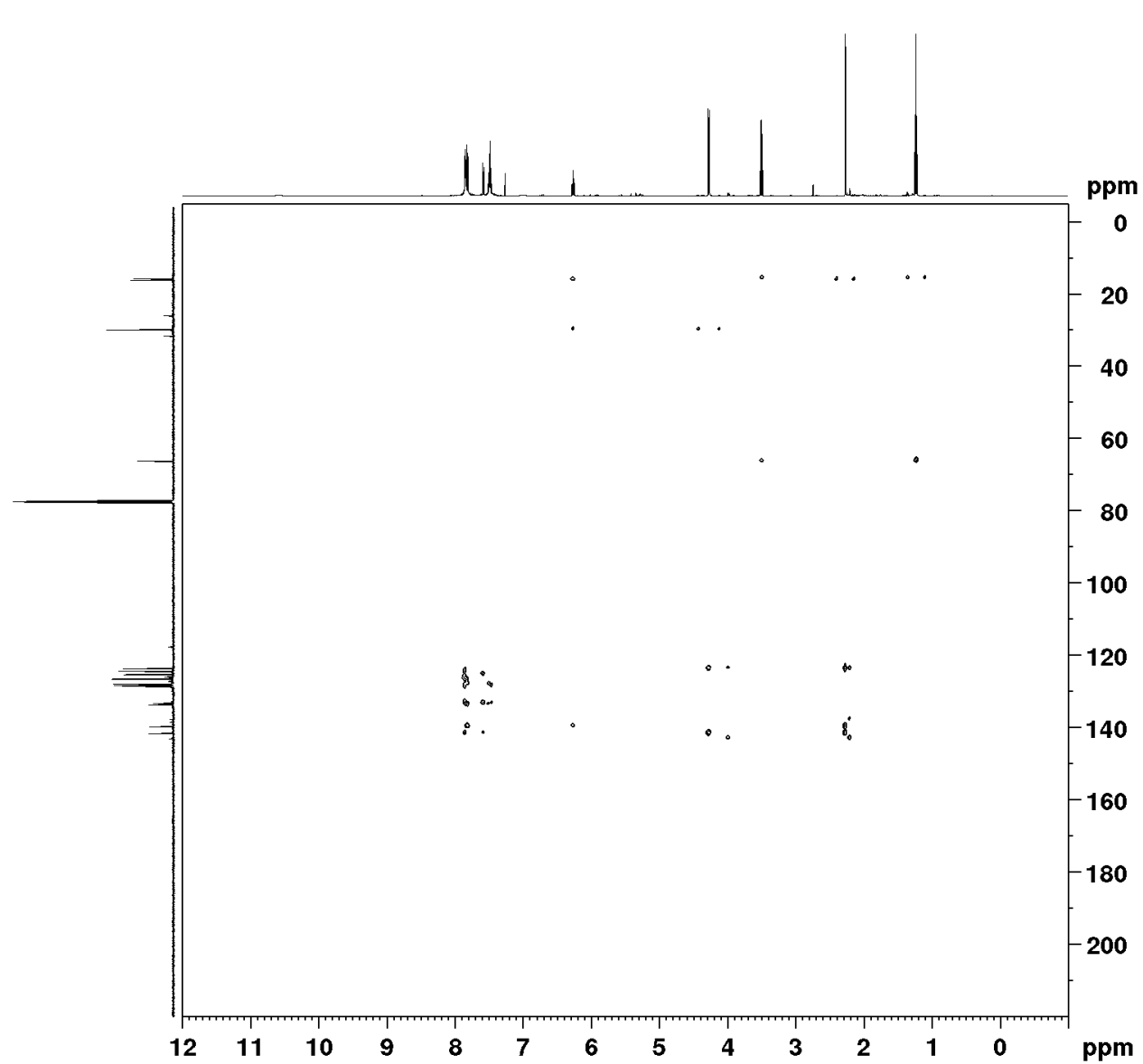


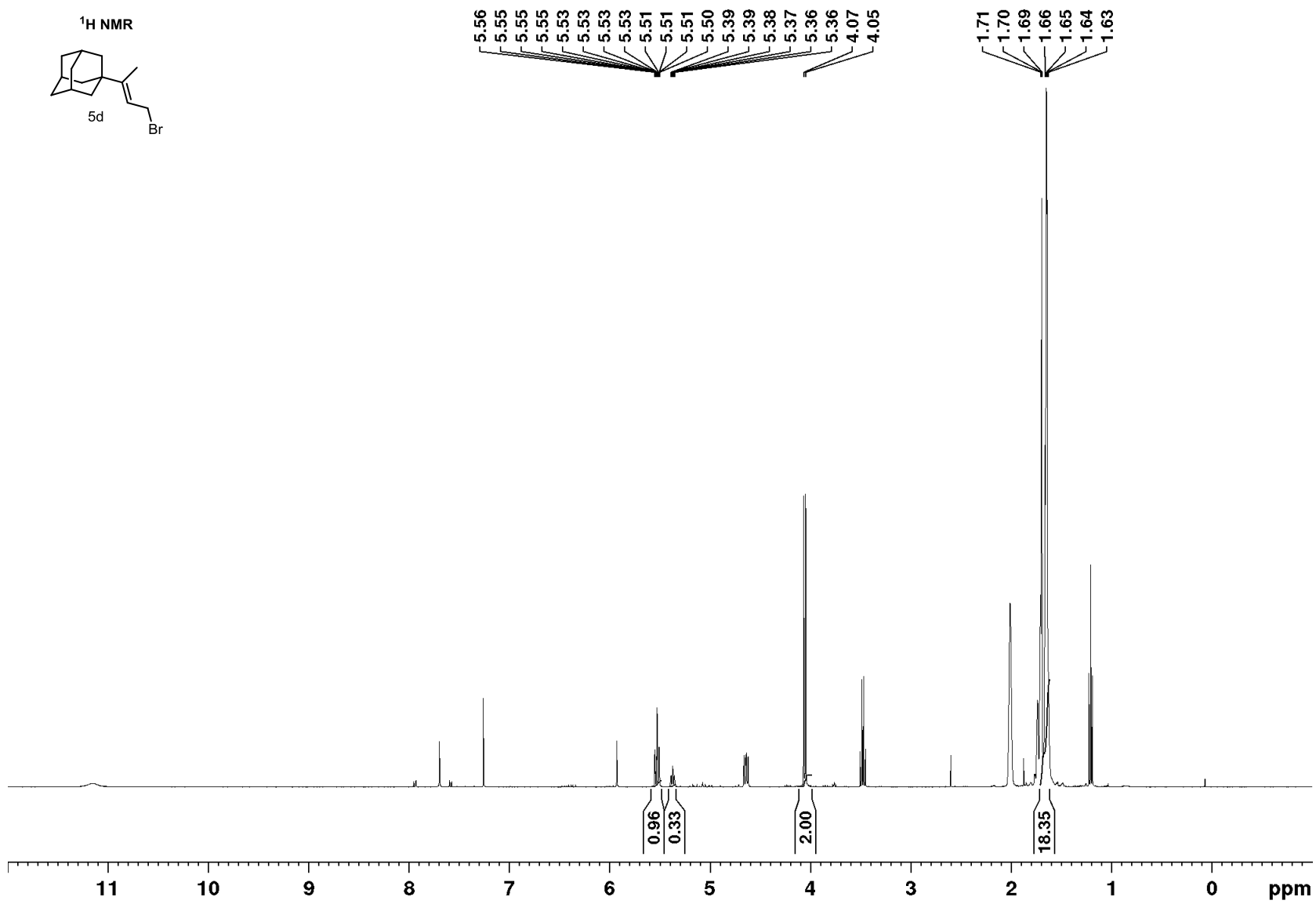




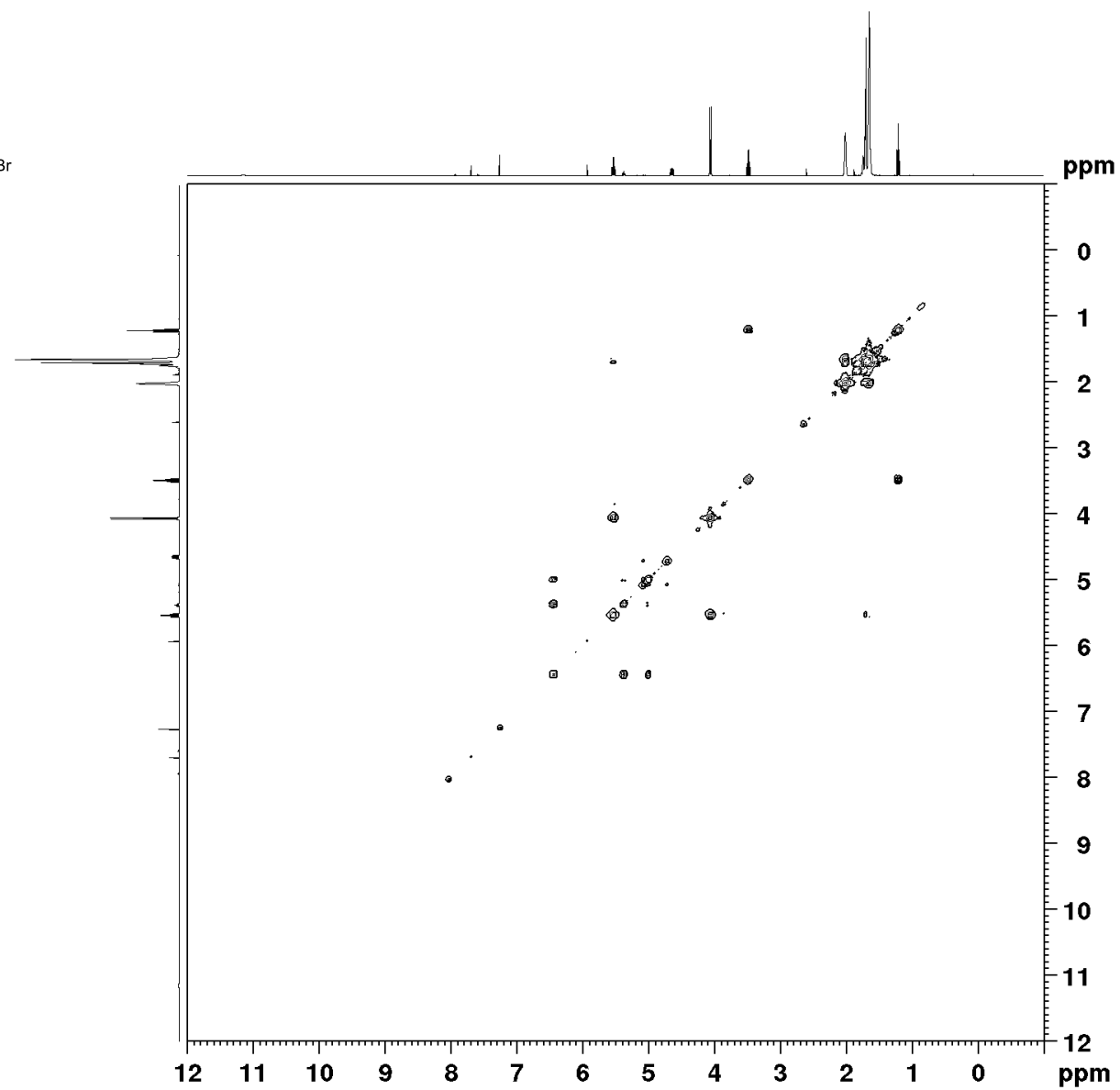
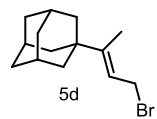




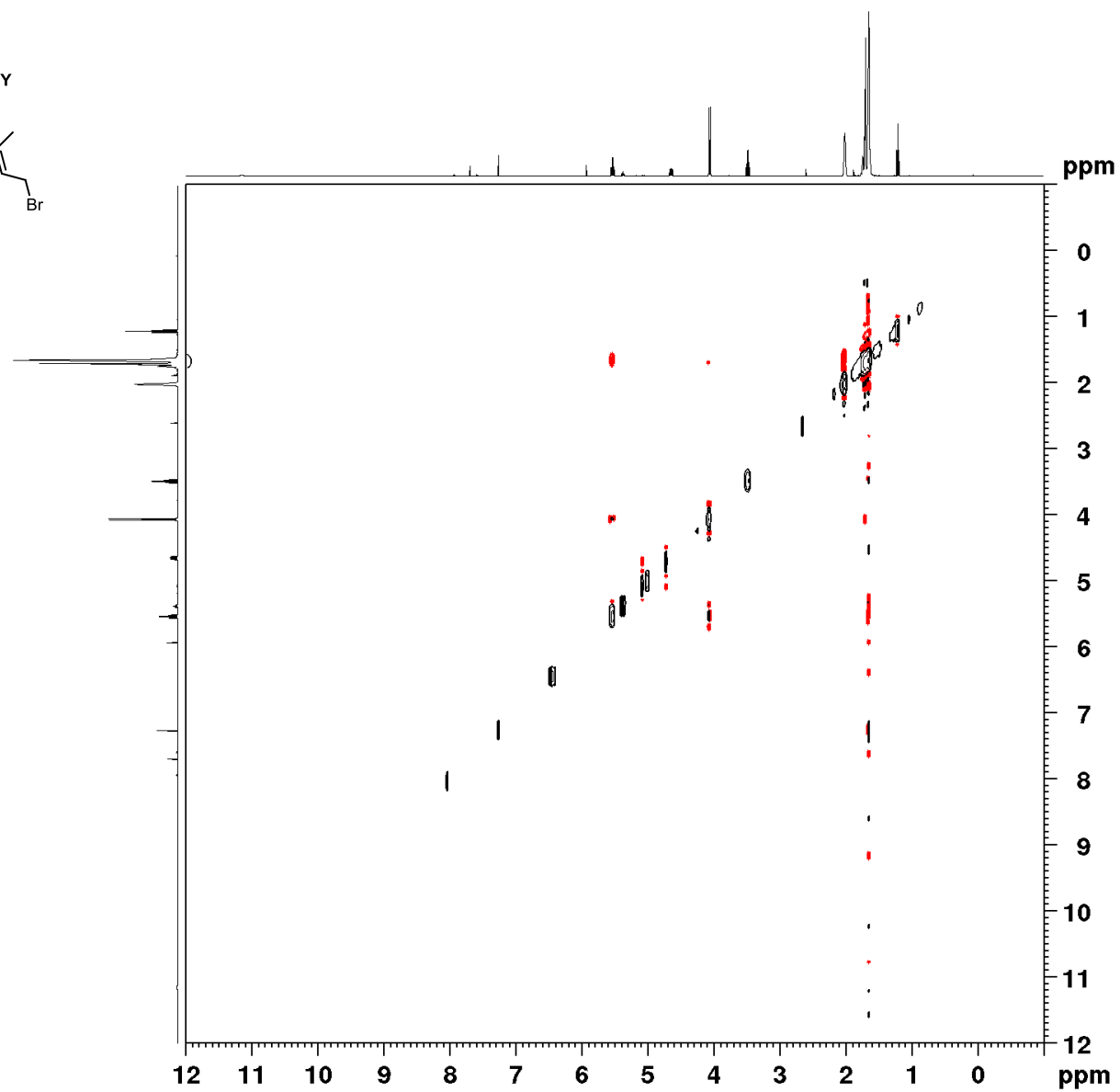
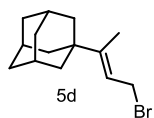


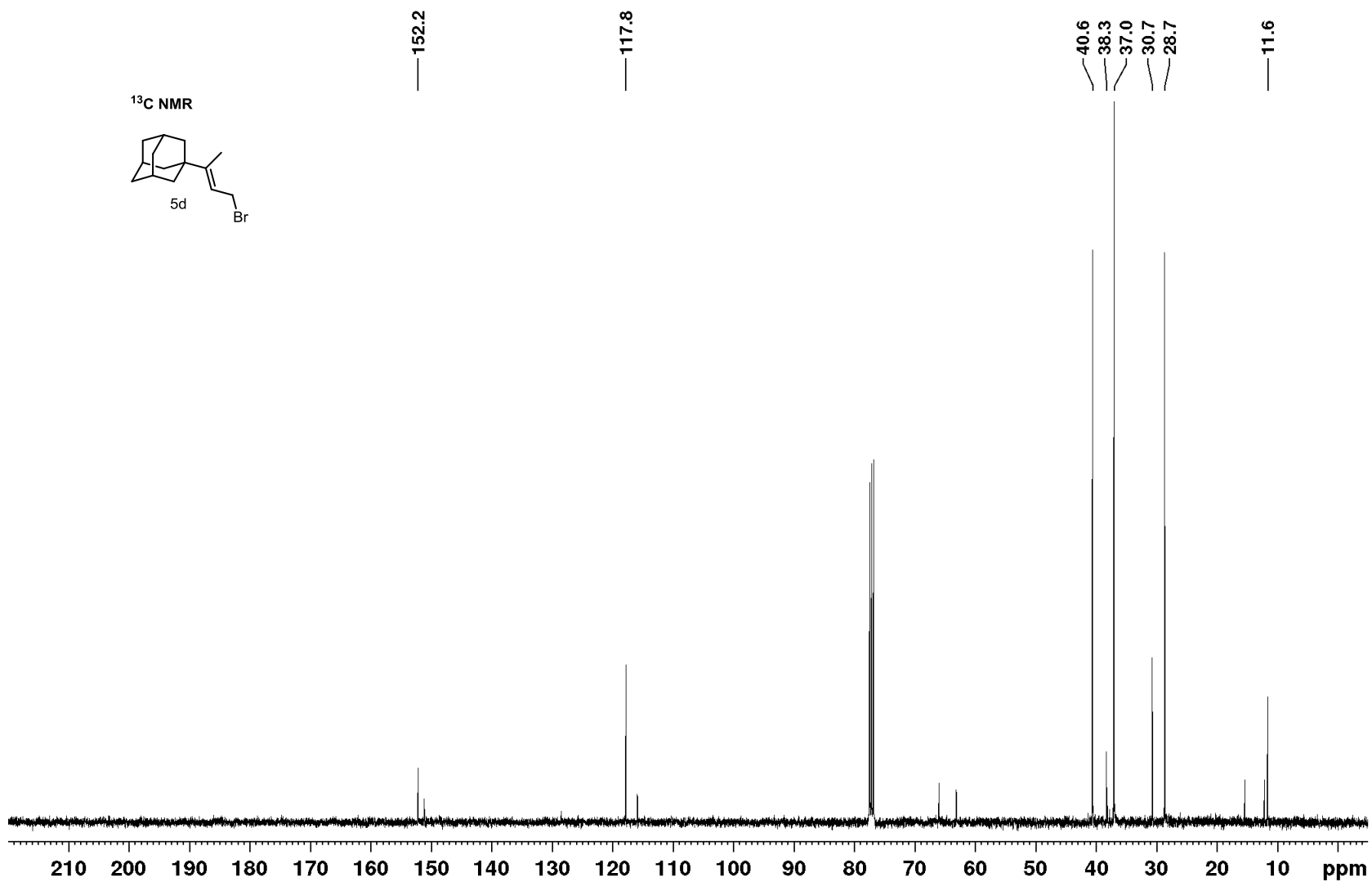


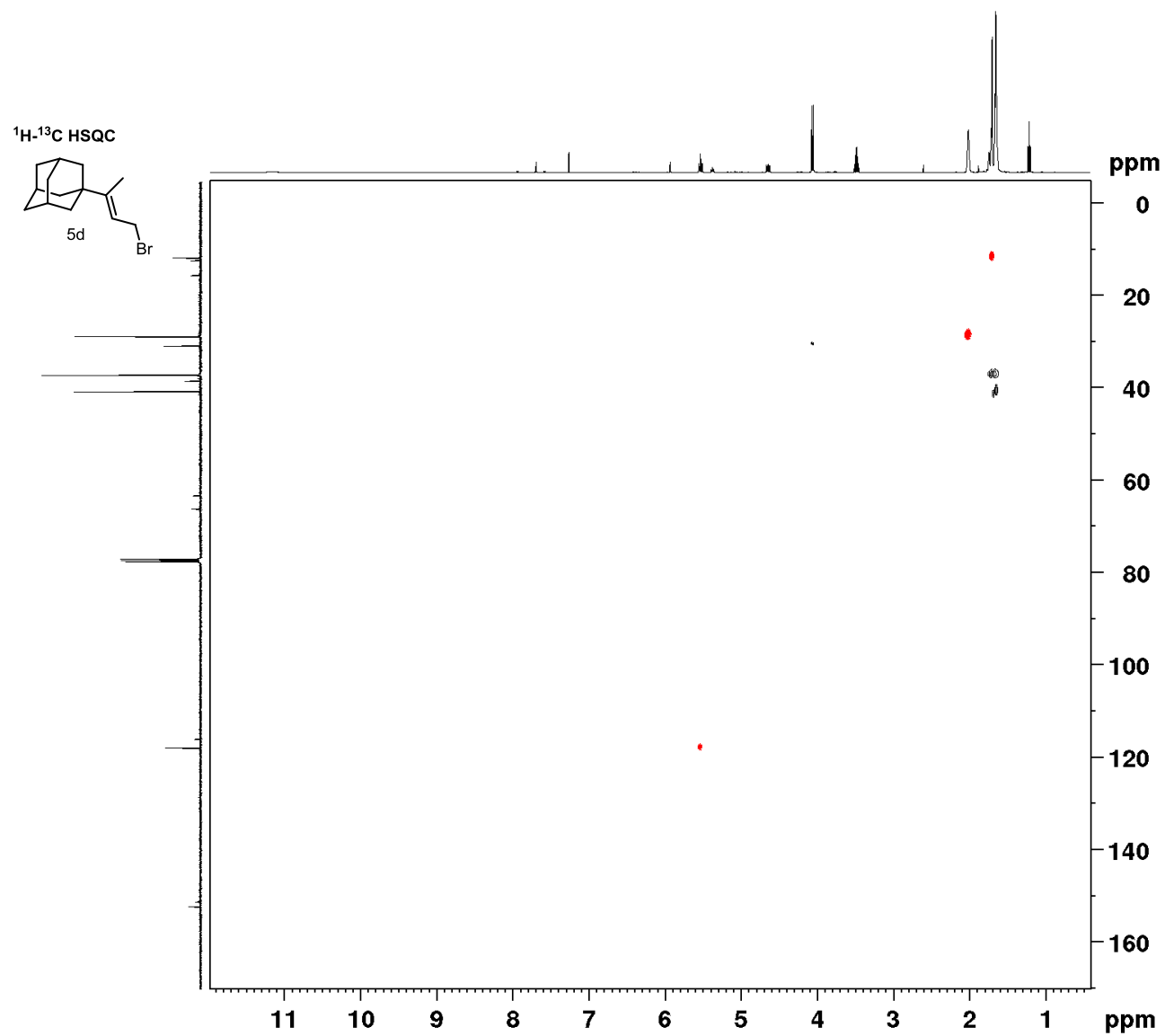
^1H - ^1H COSY



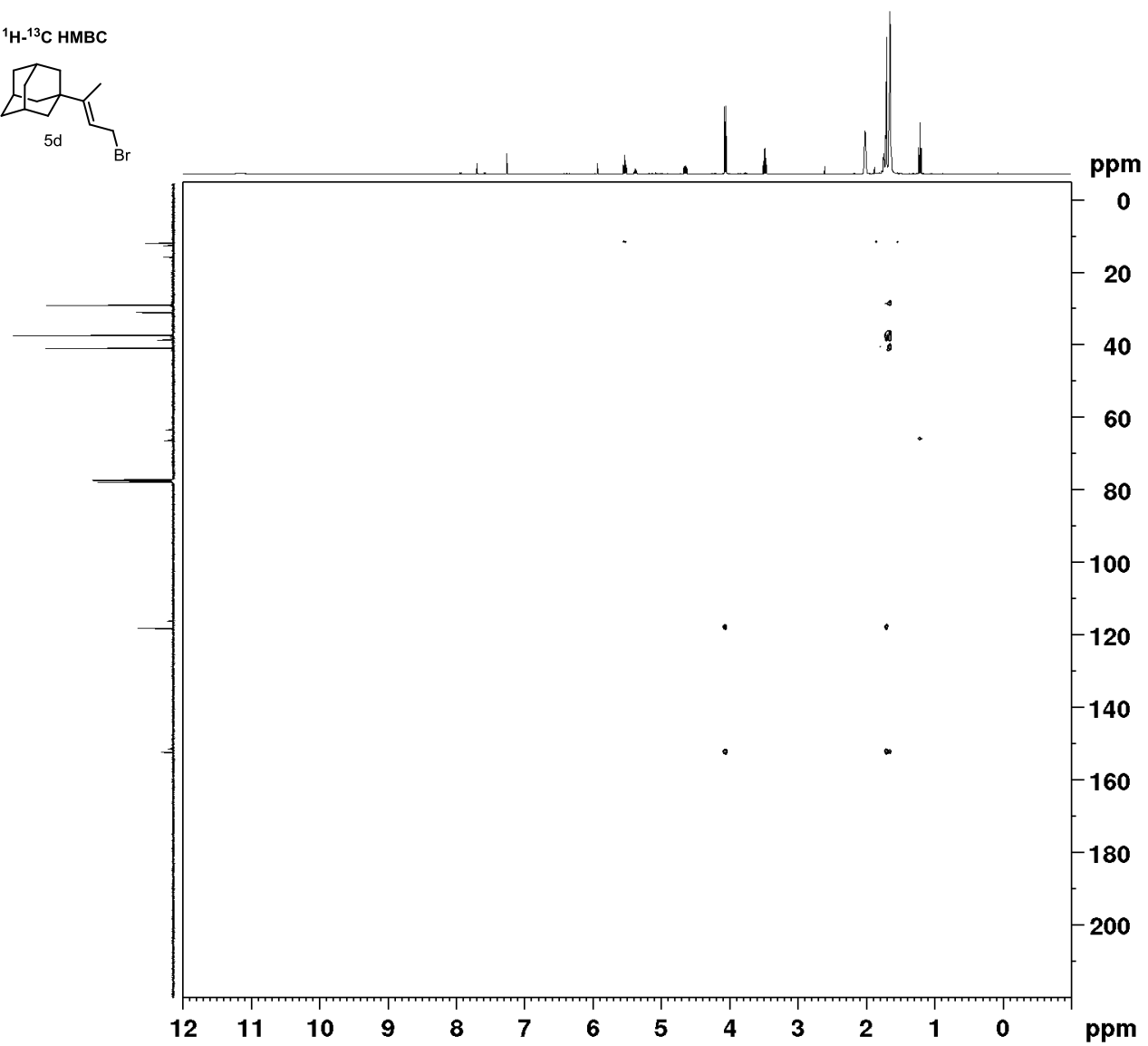
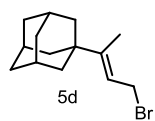
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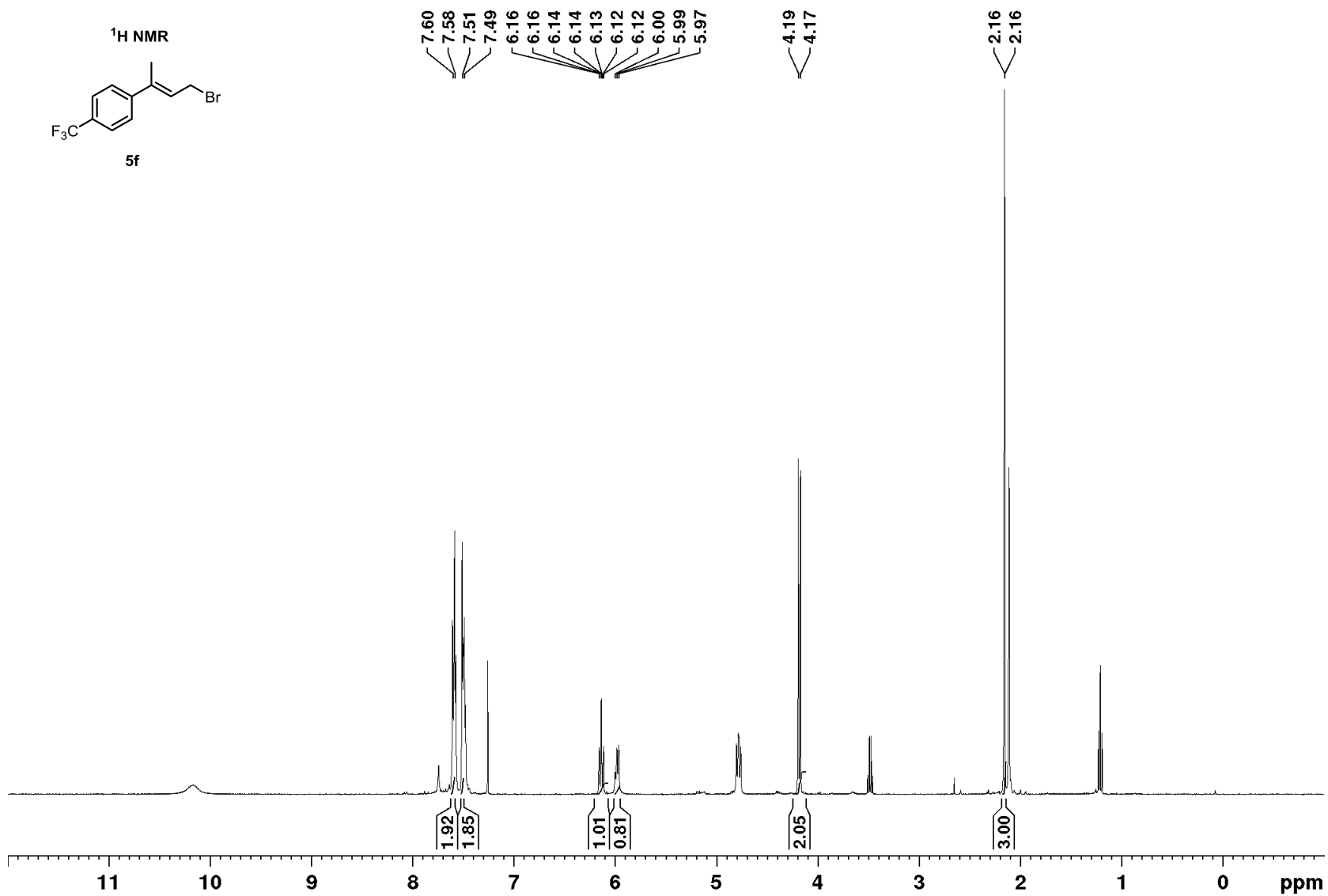


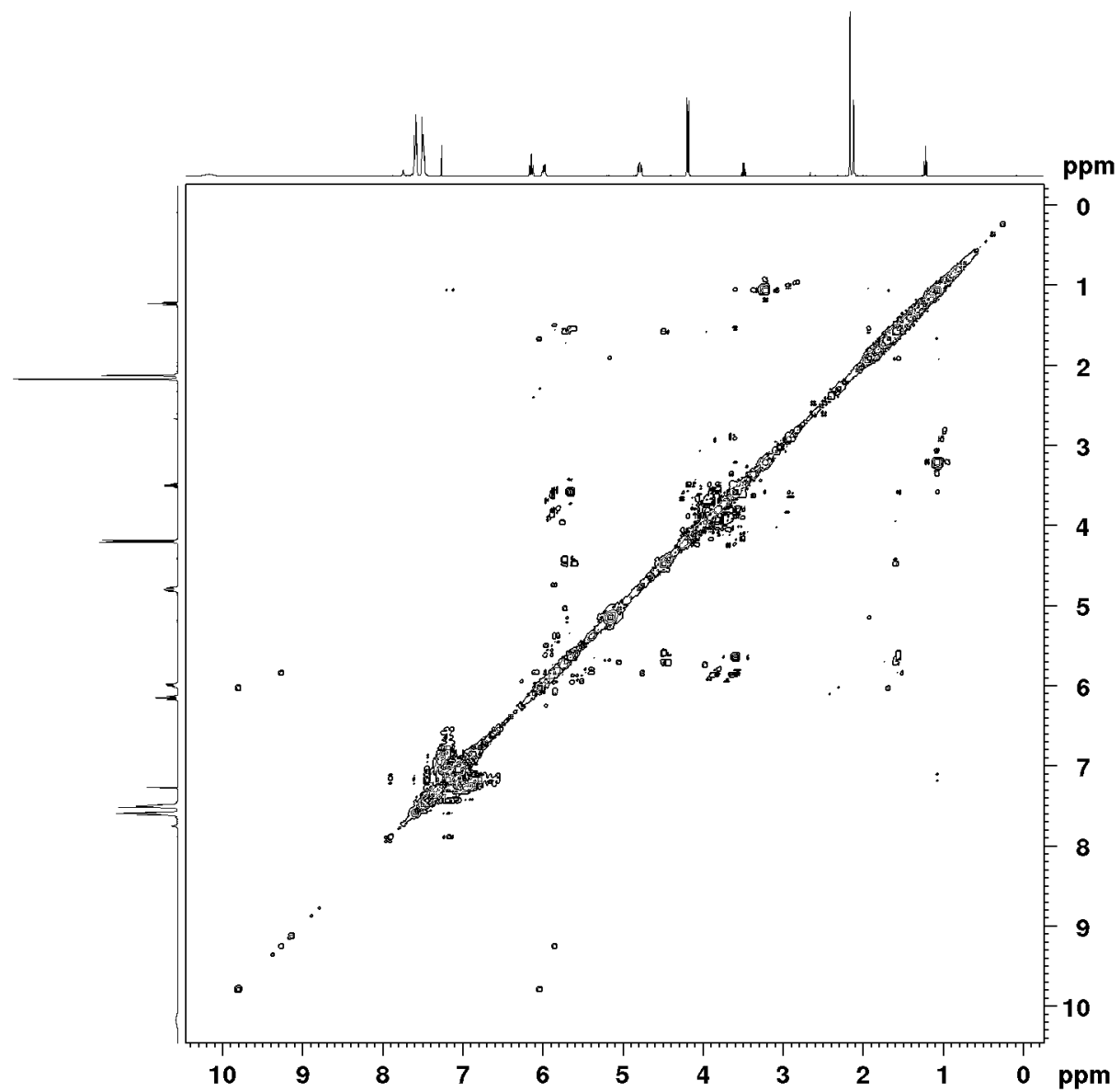
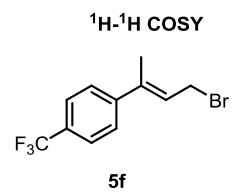


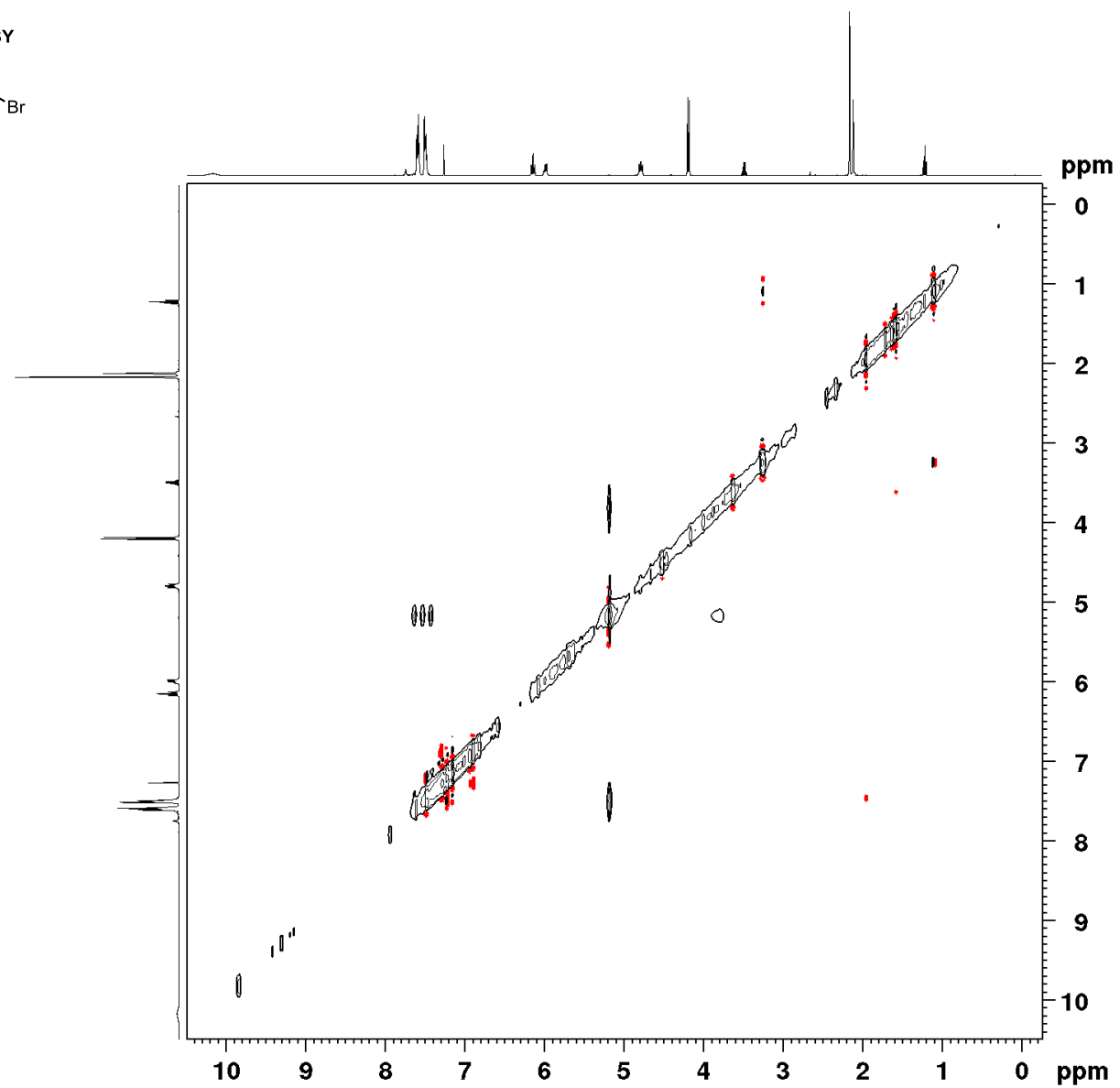
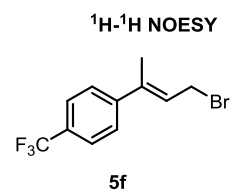


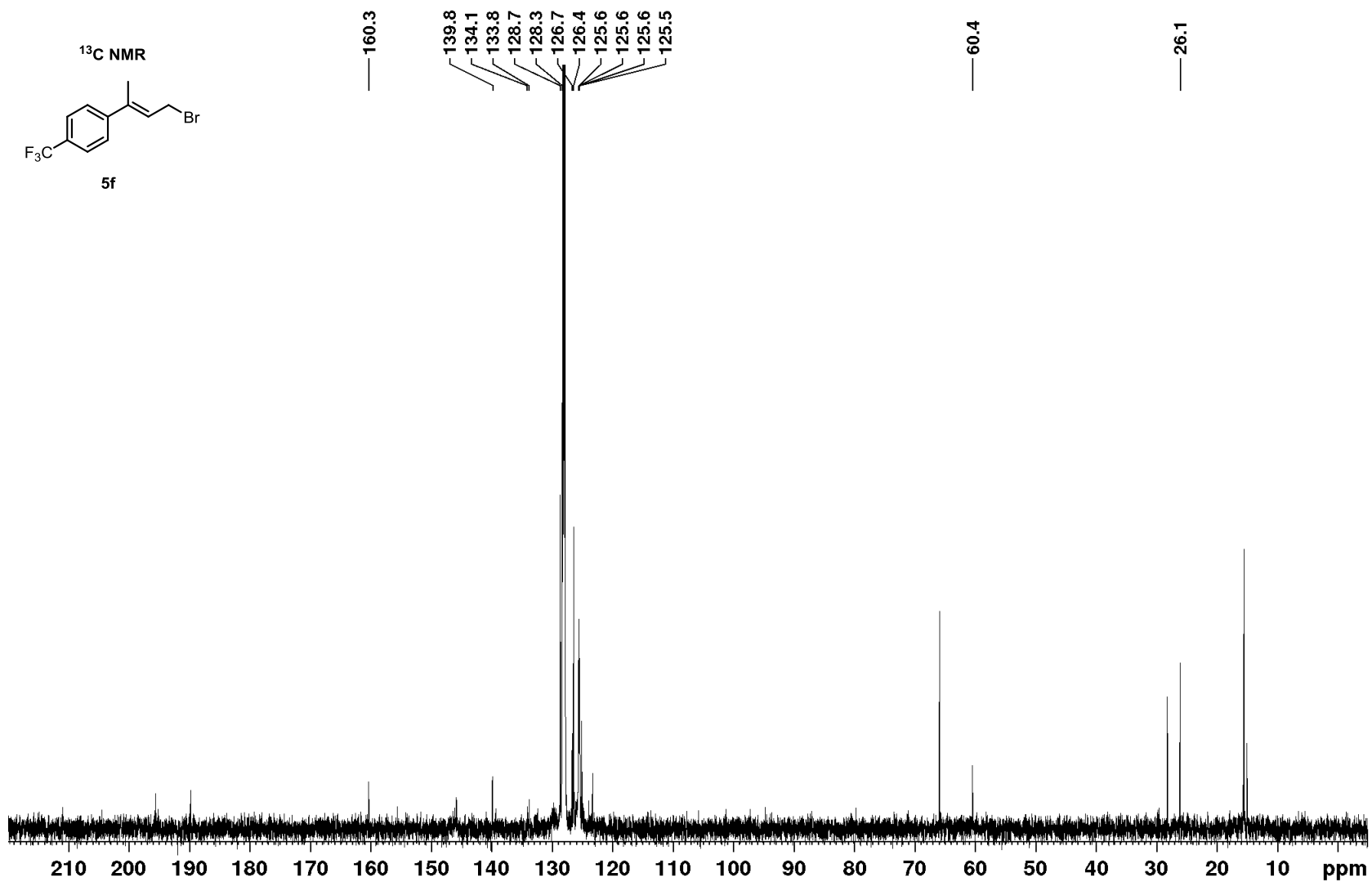
¹H-¹³C HMBC

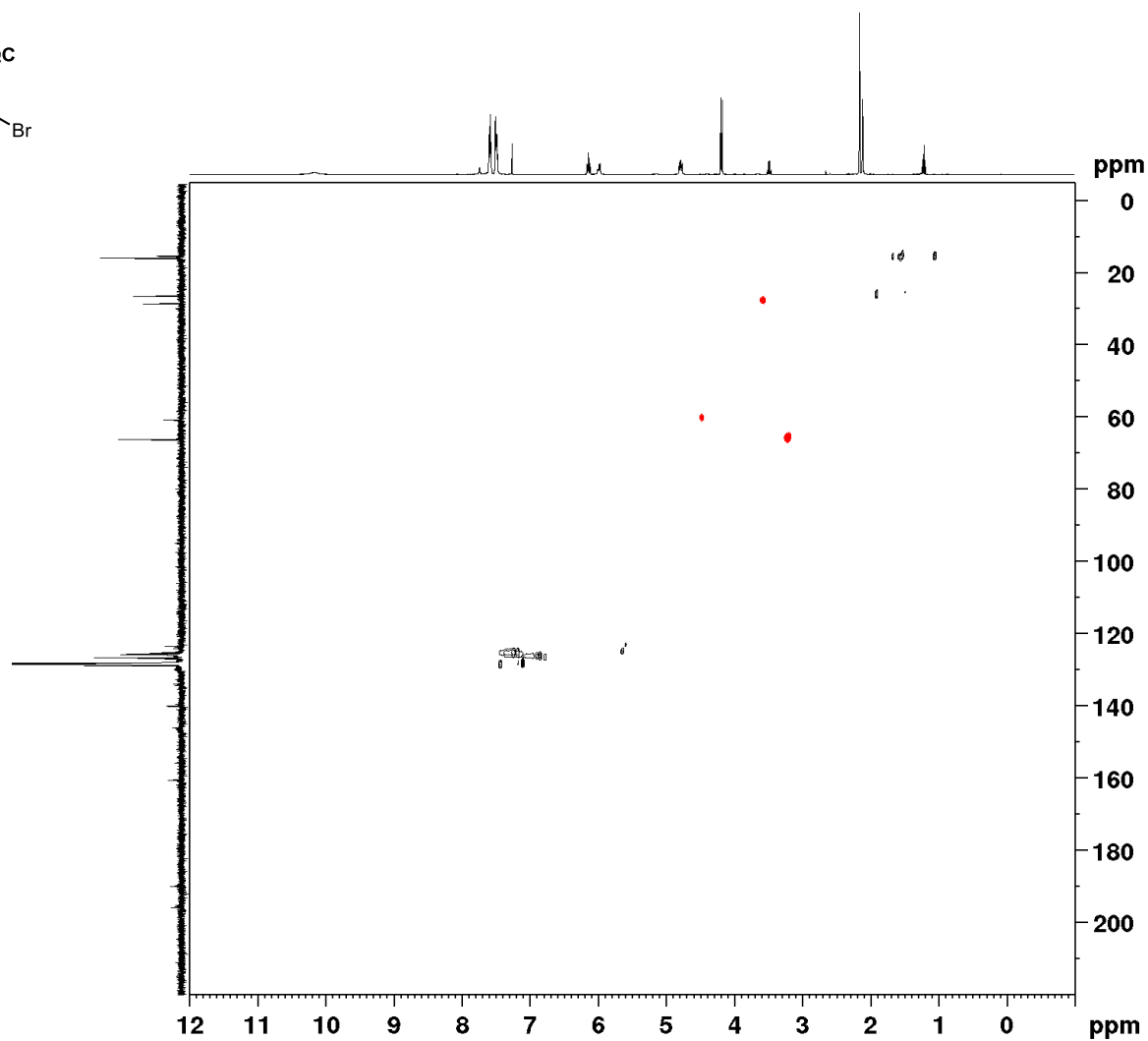
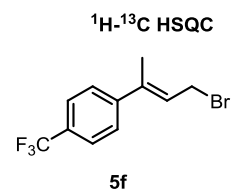


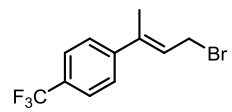


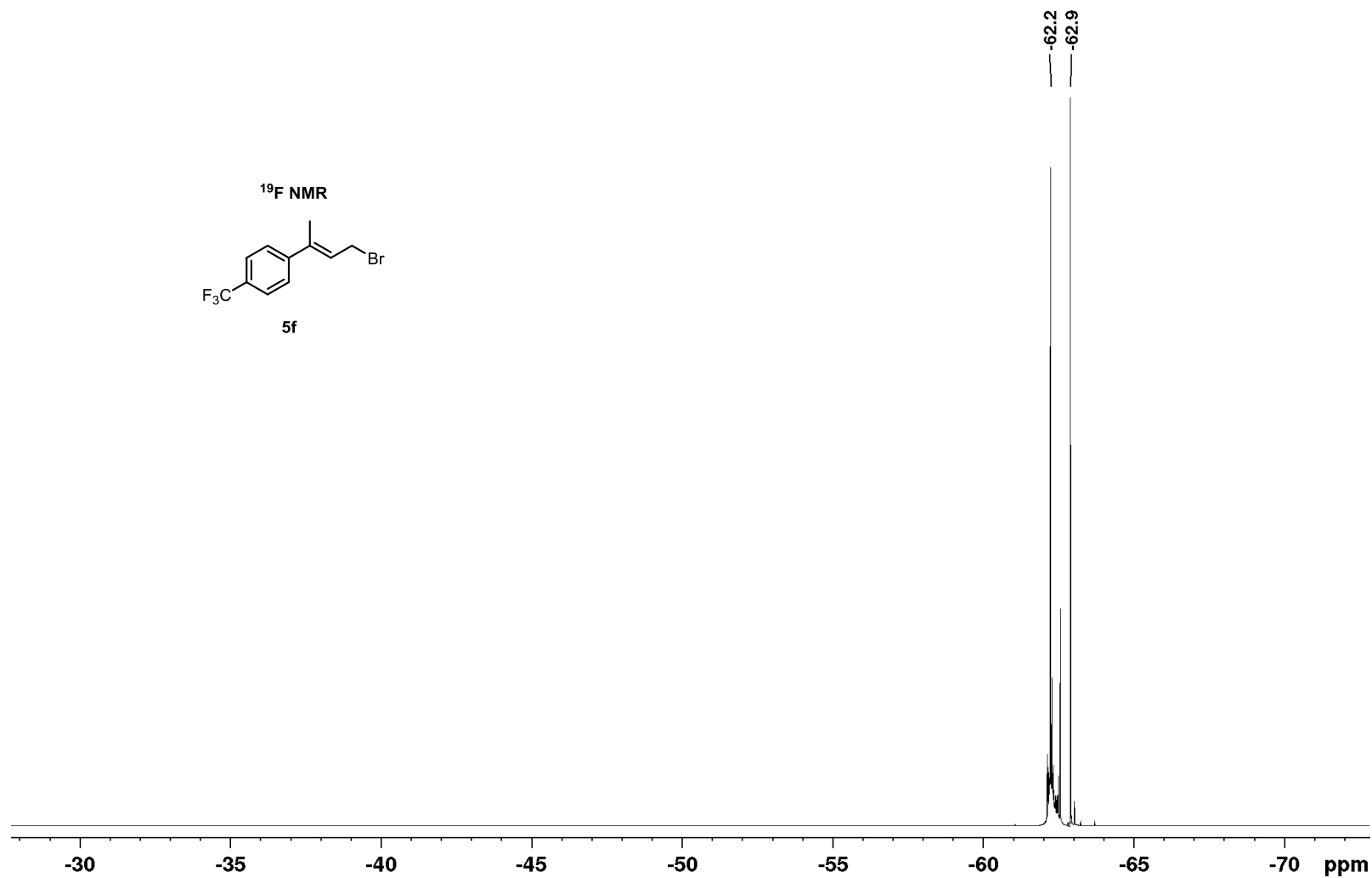
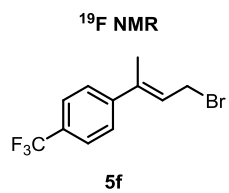


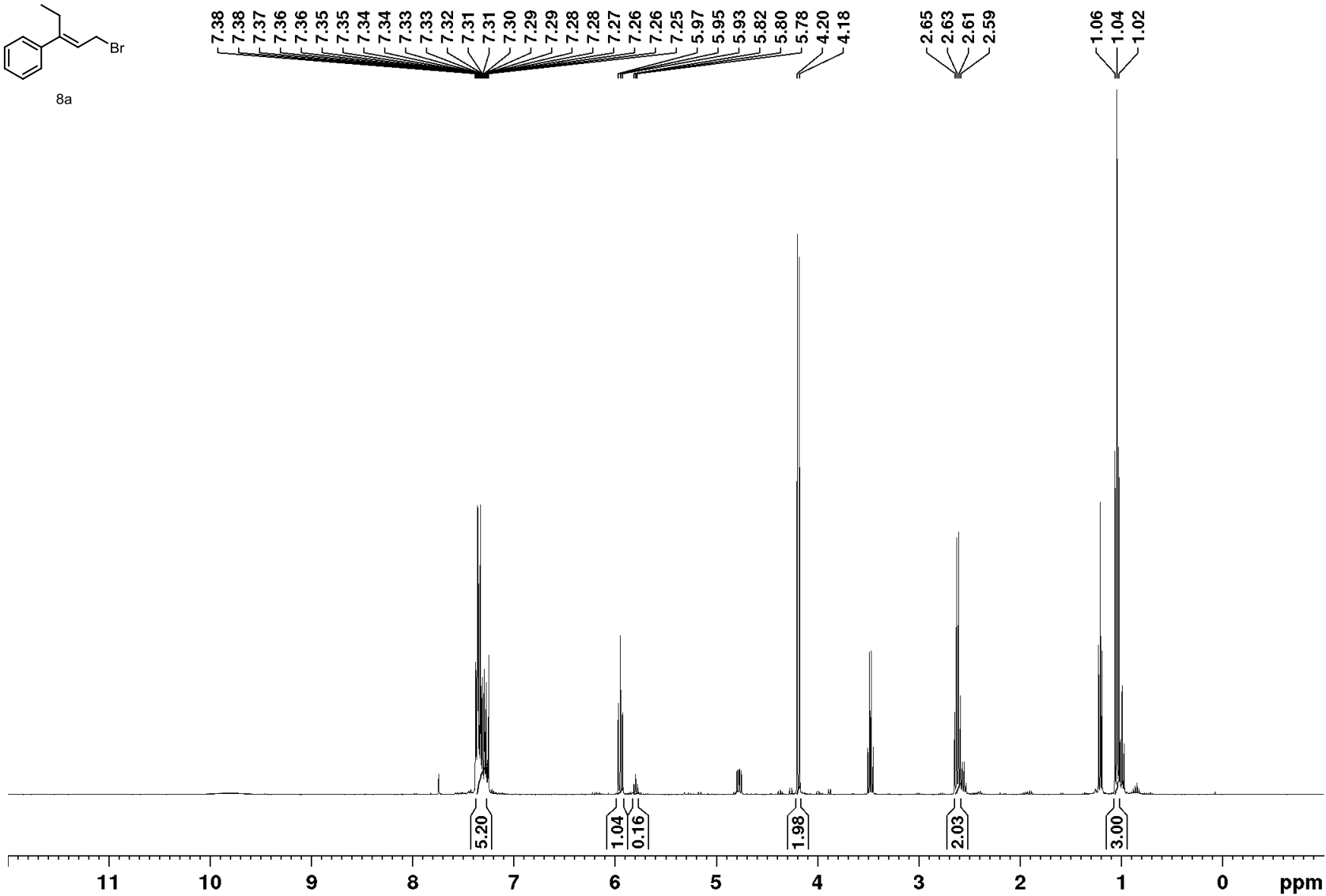
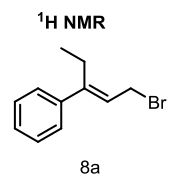


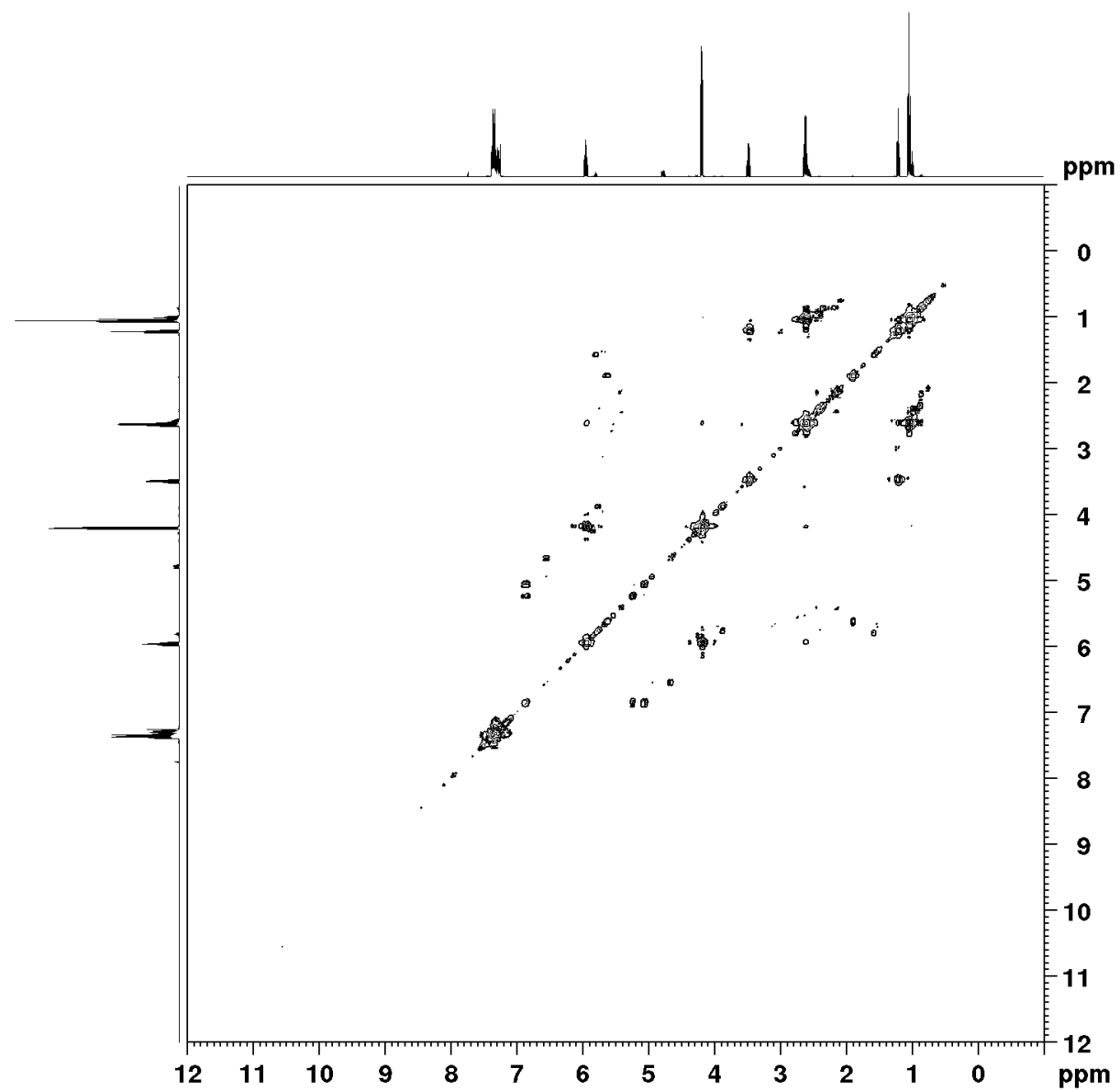
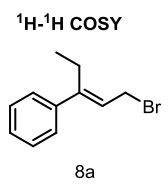




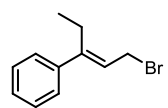




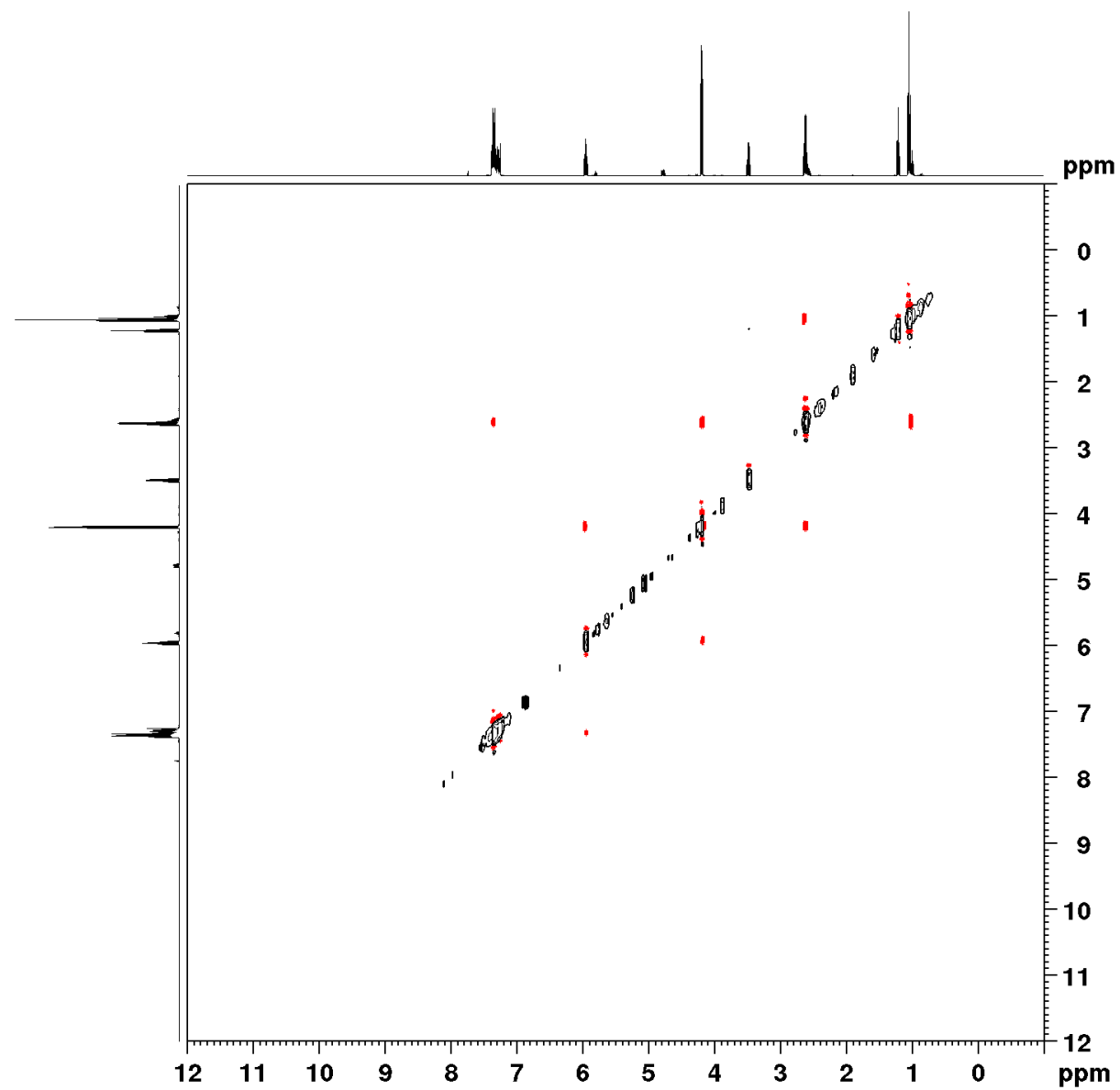


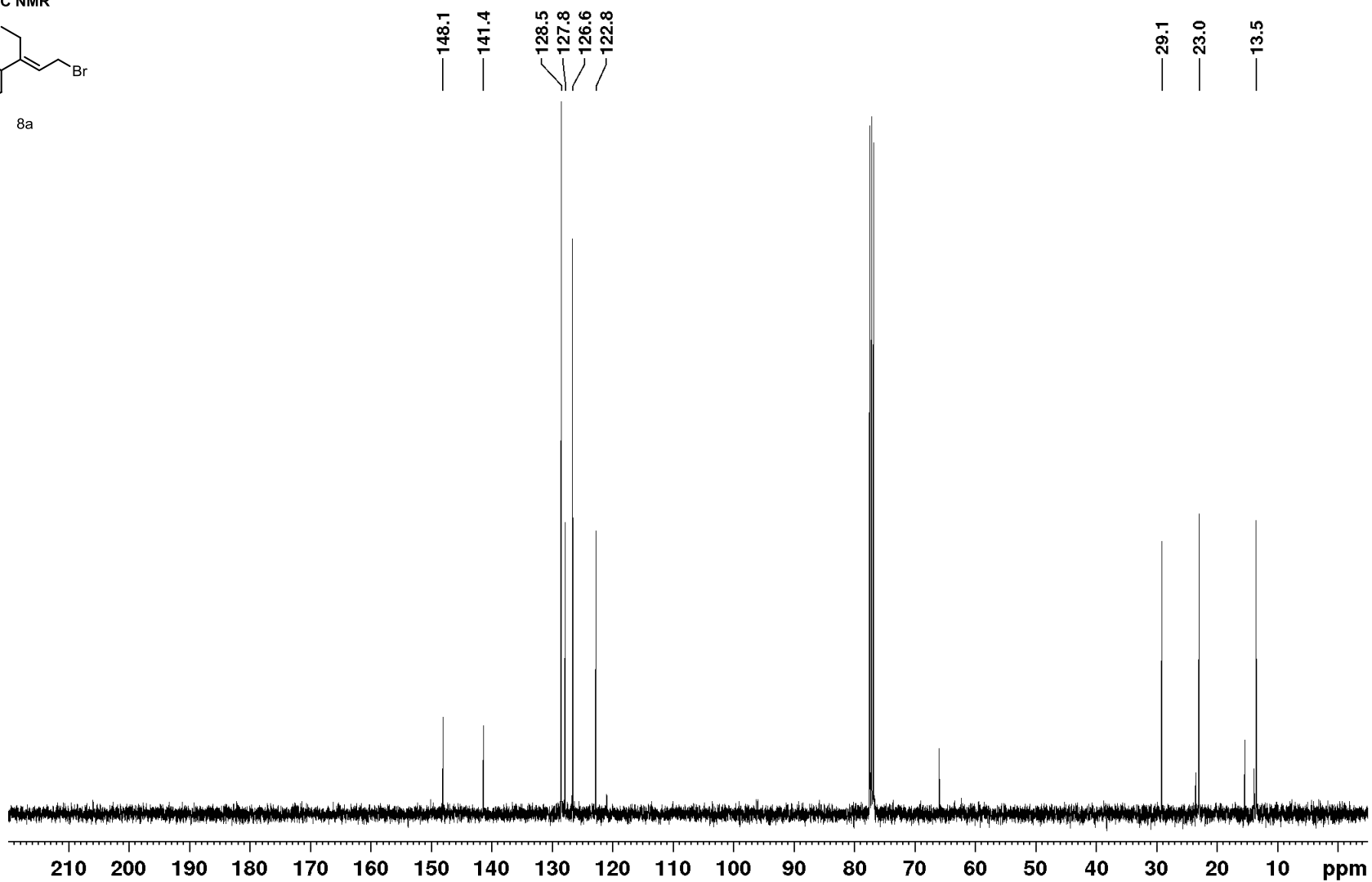
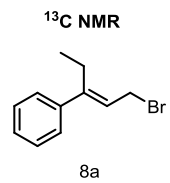


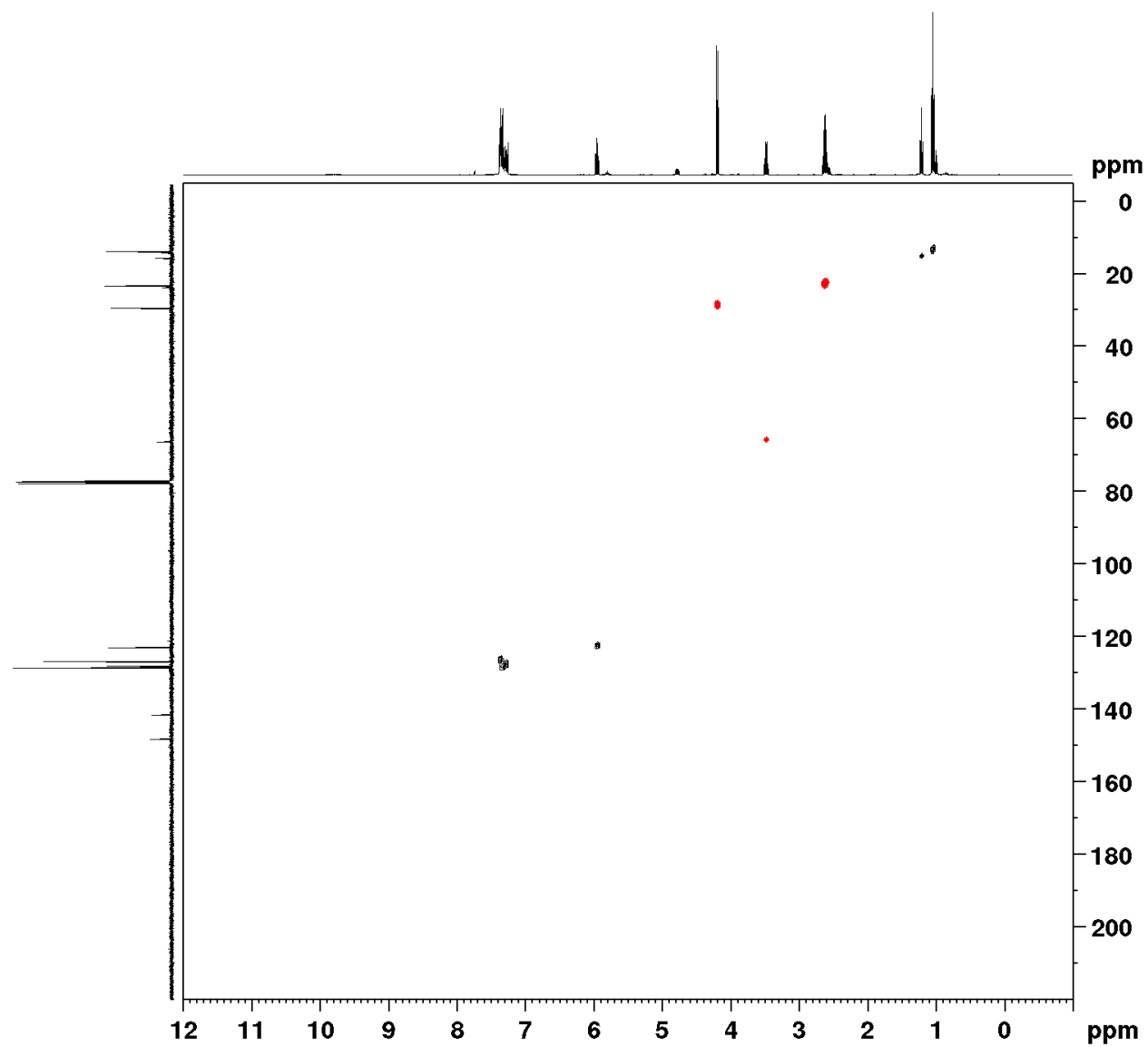
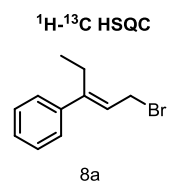
¹H-¹H NOESY

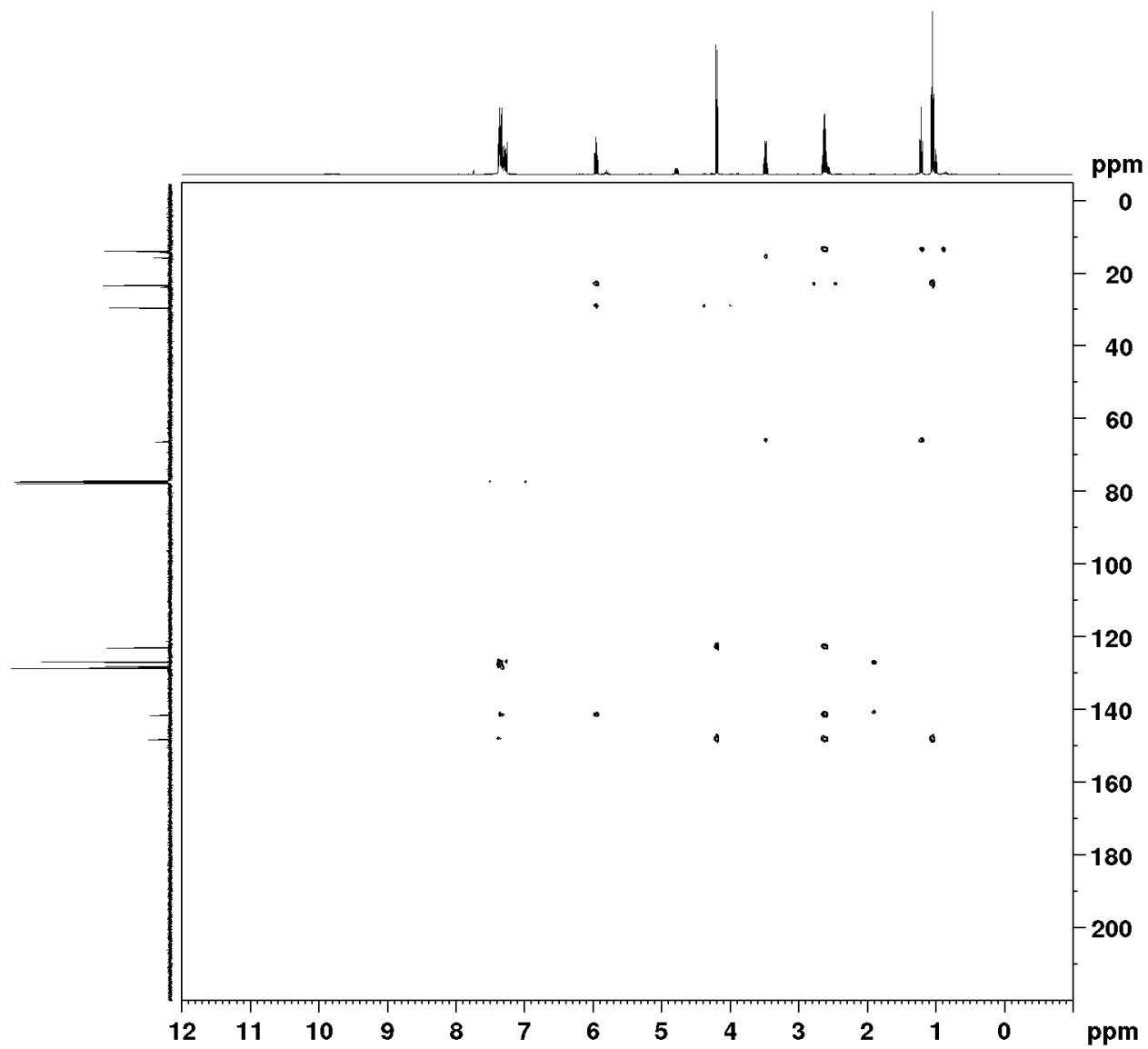
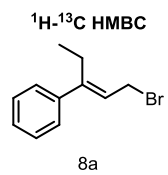


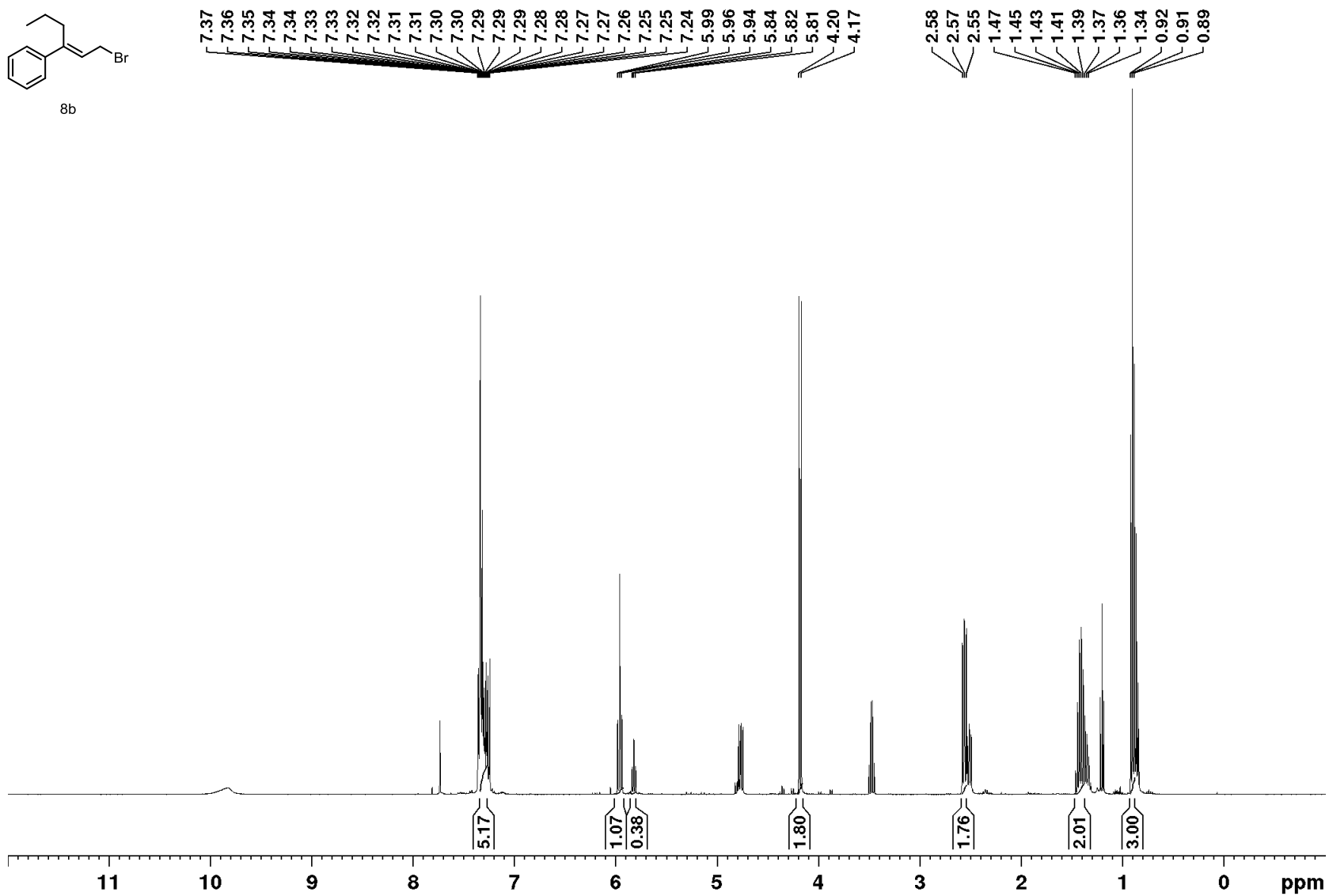
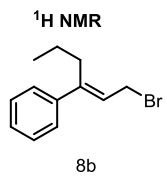
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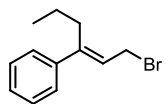




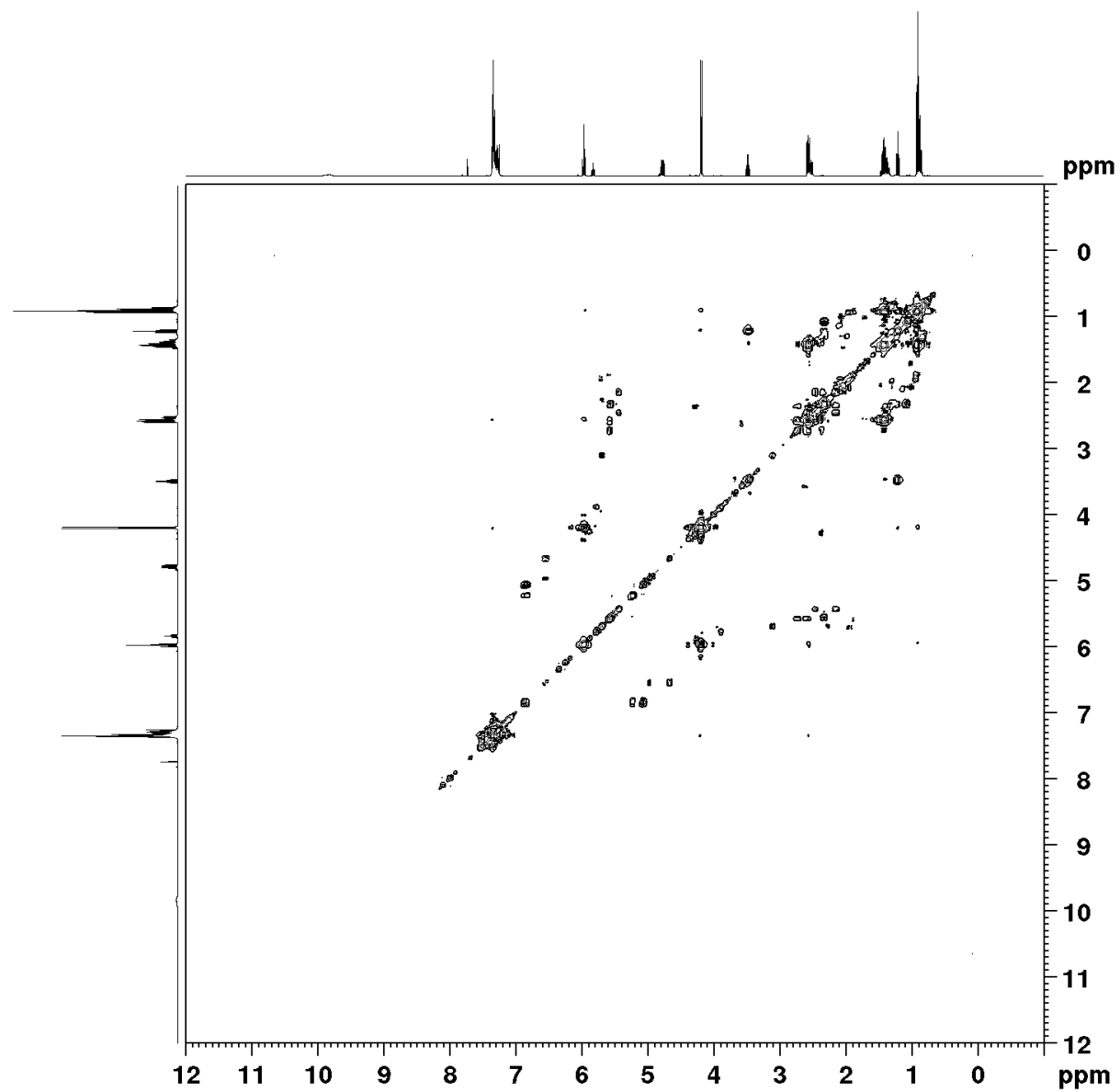




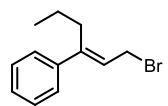
^1H - ^1H COSY



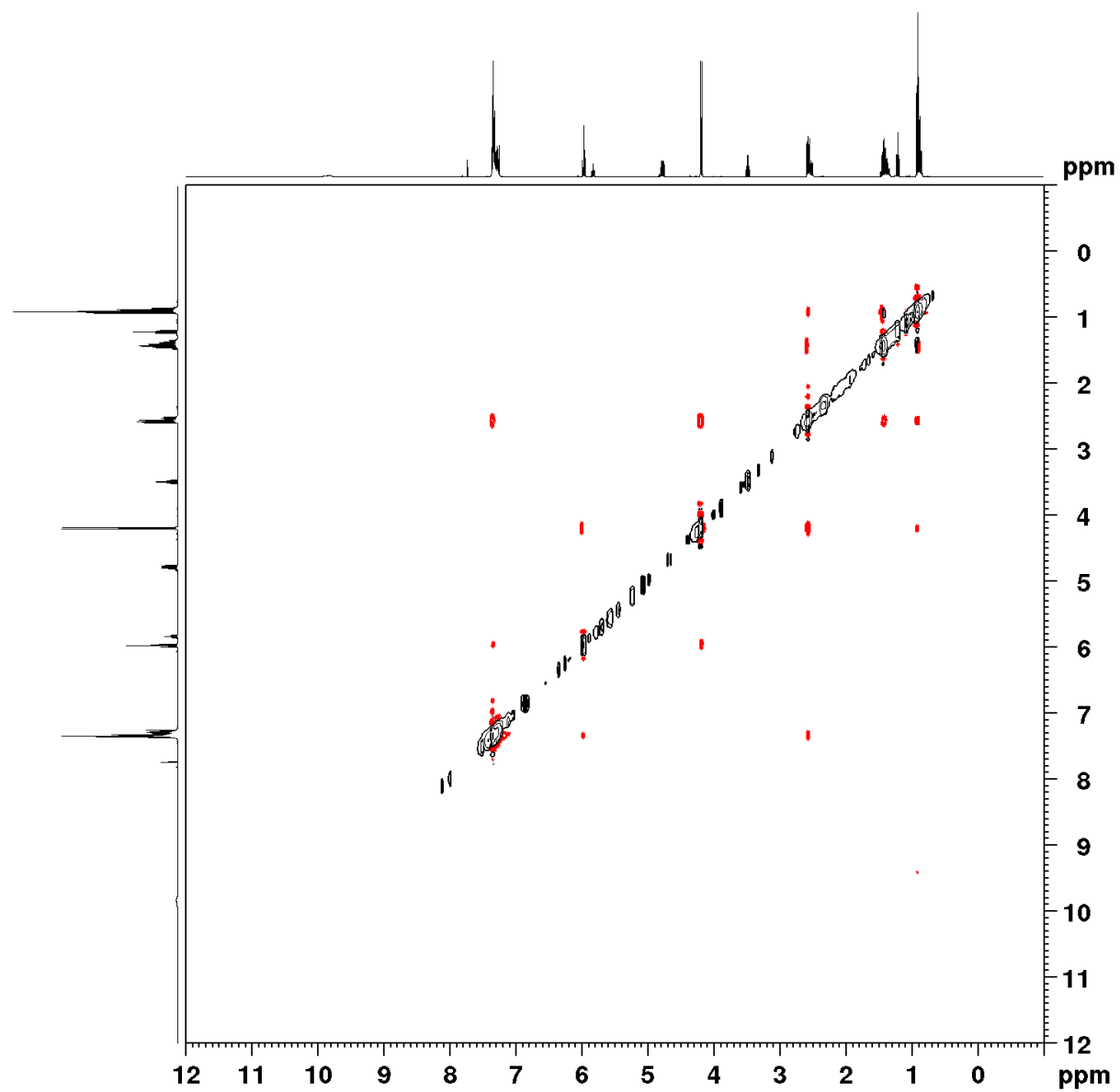
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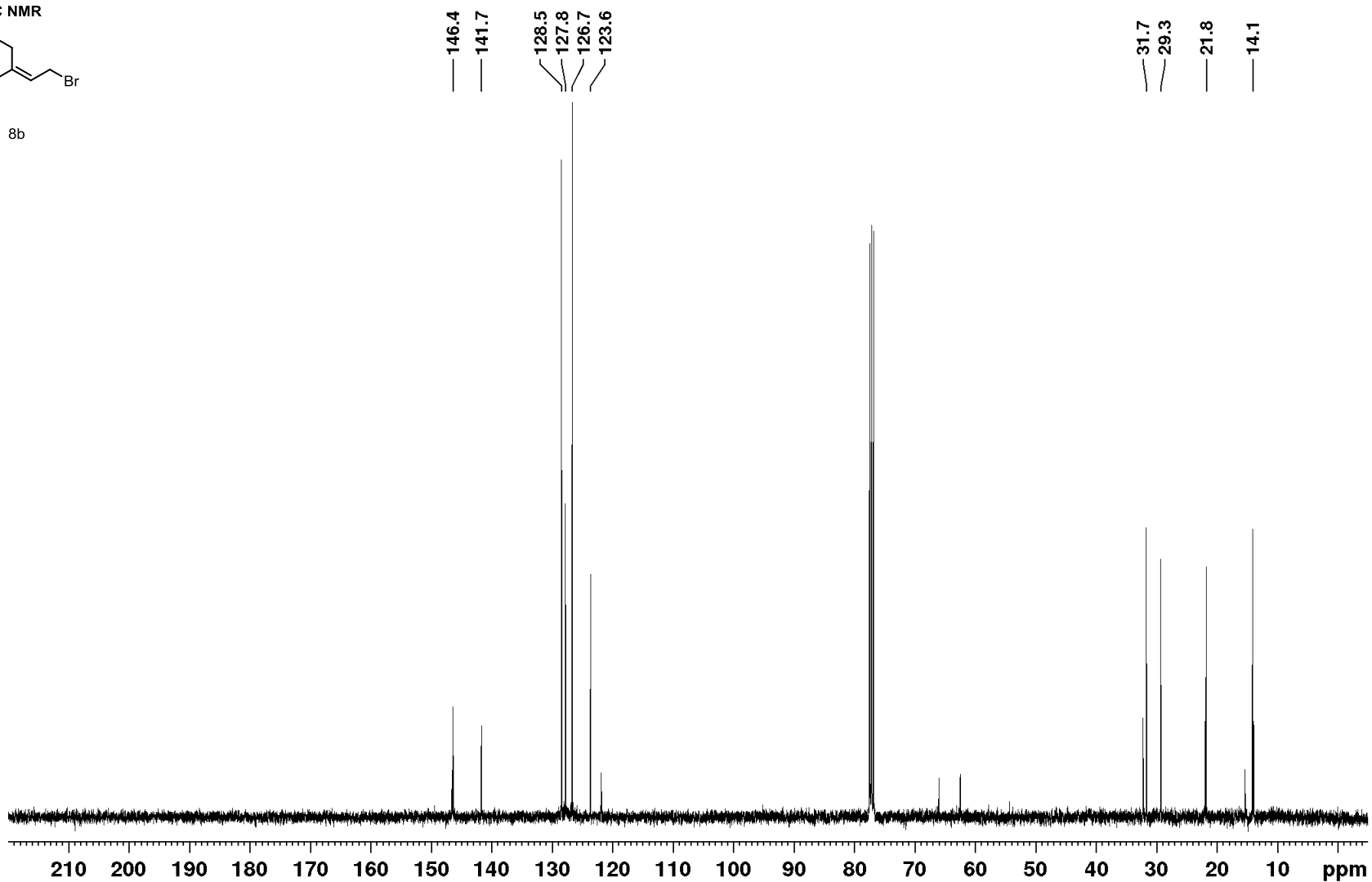
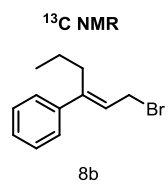


¹H-¹H NOESY

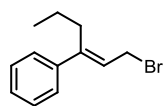


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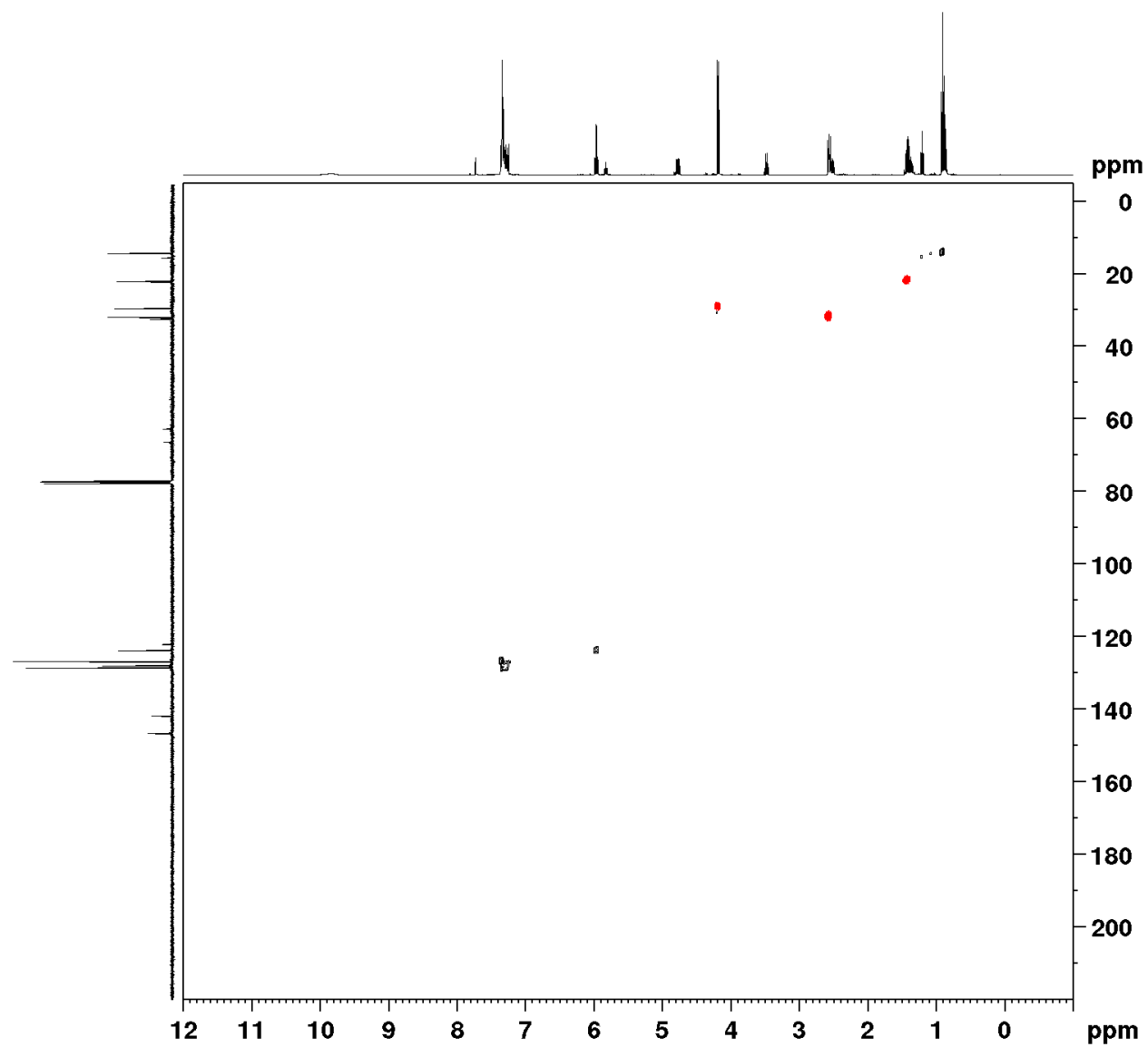


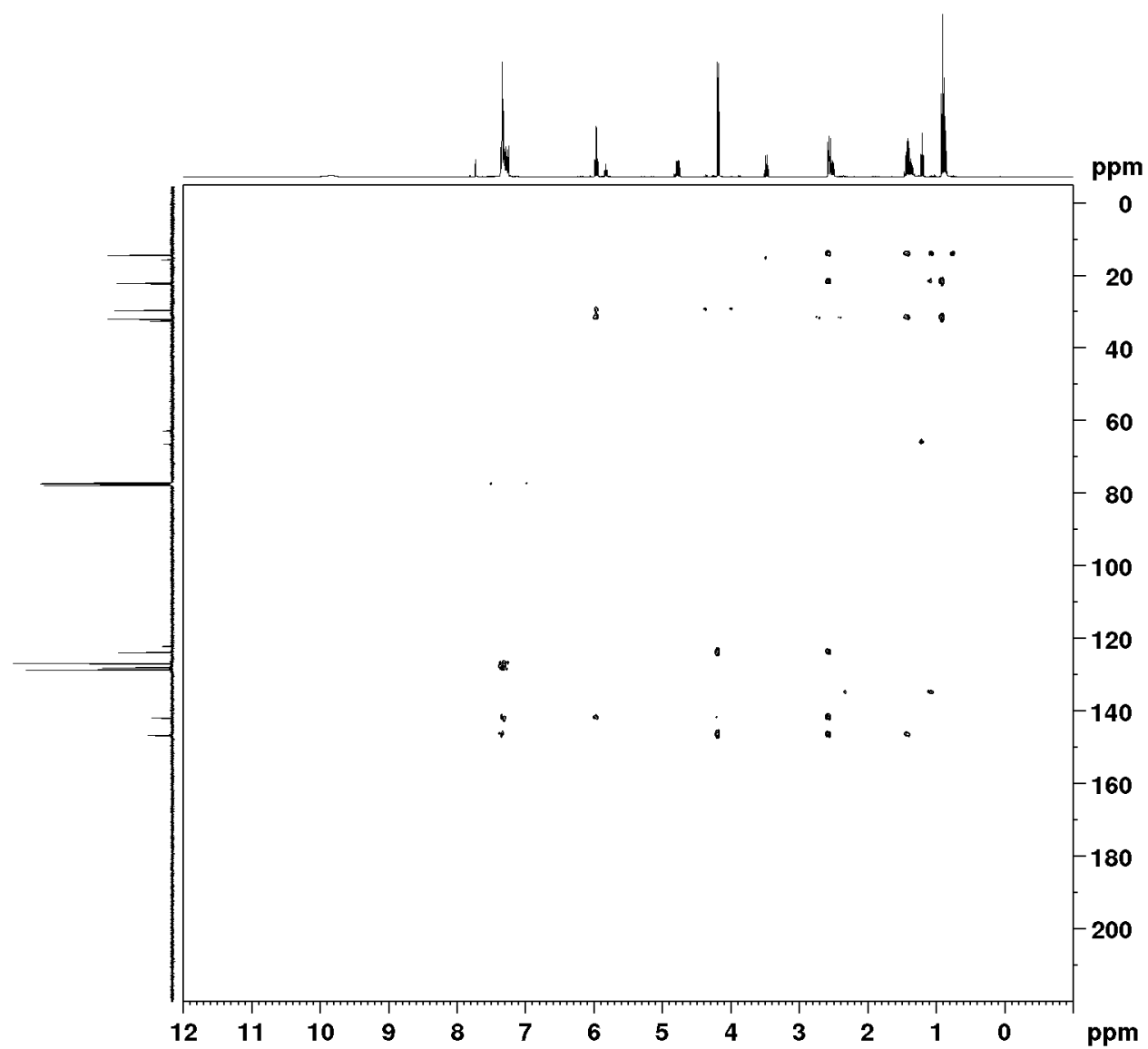
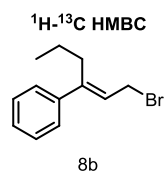


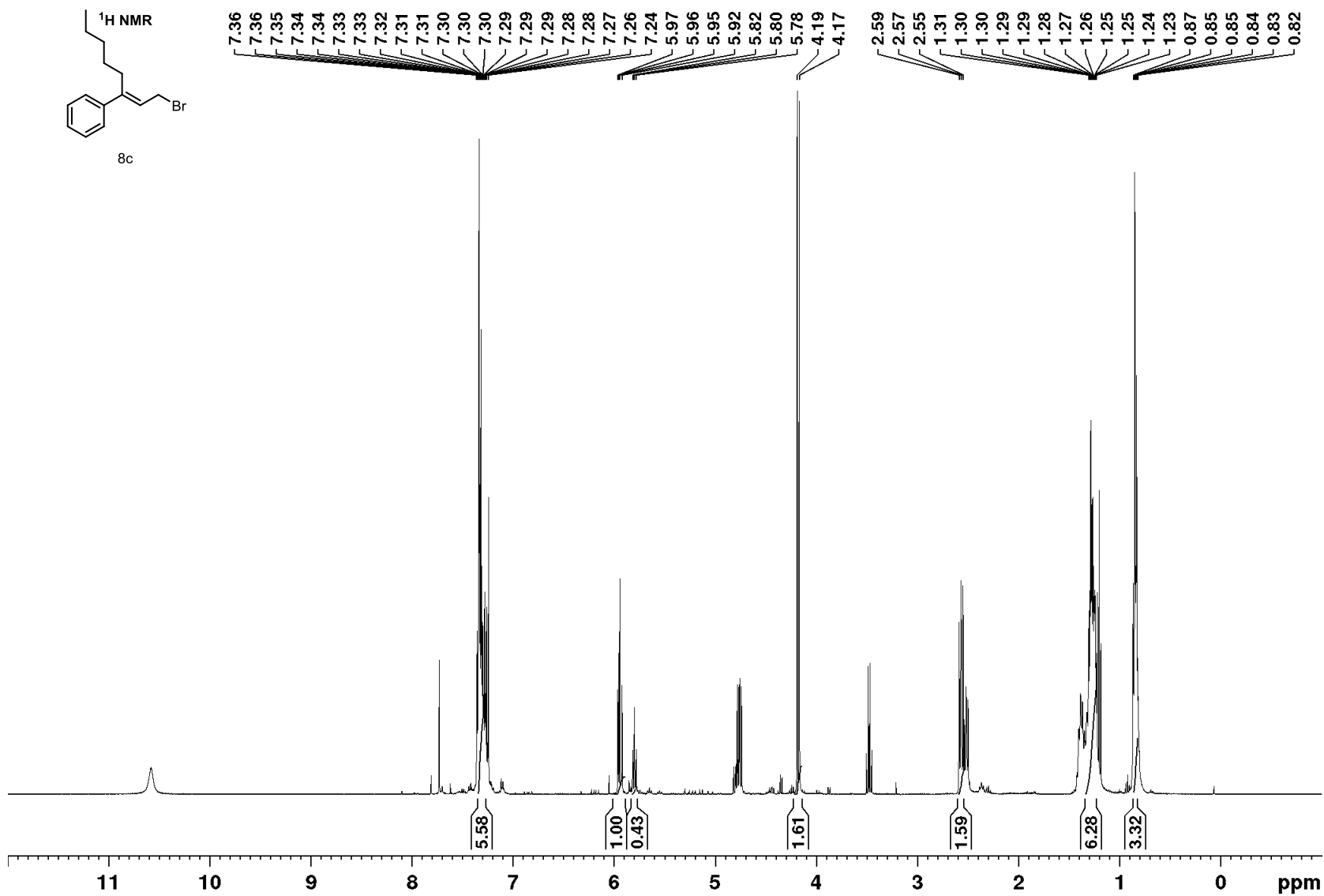
¹H-¹³C HSQC

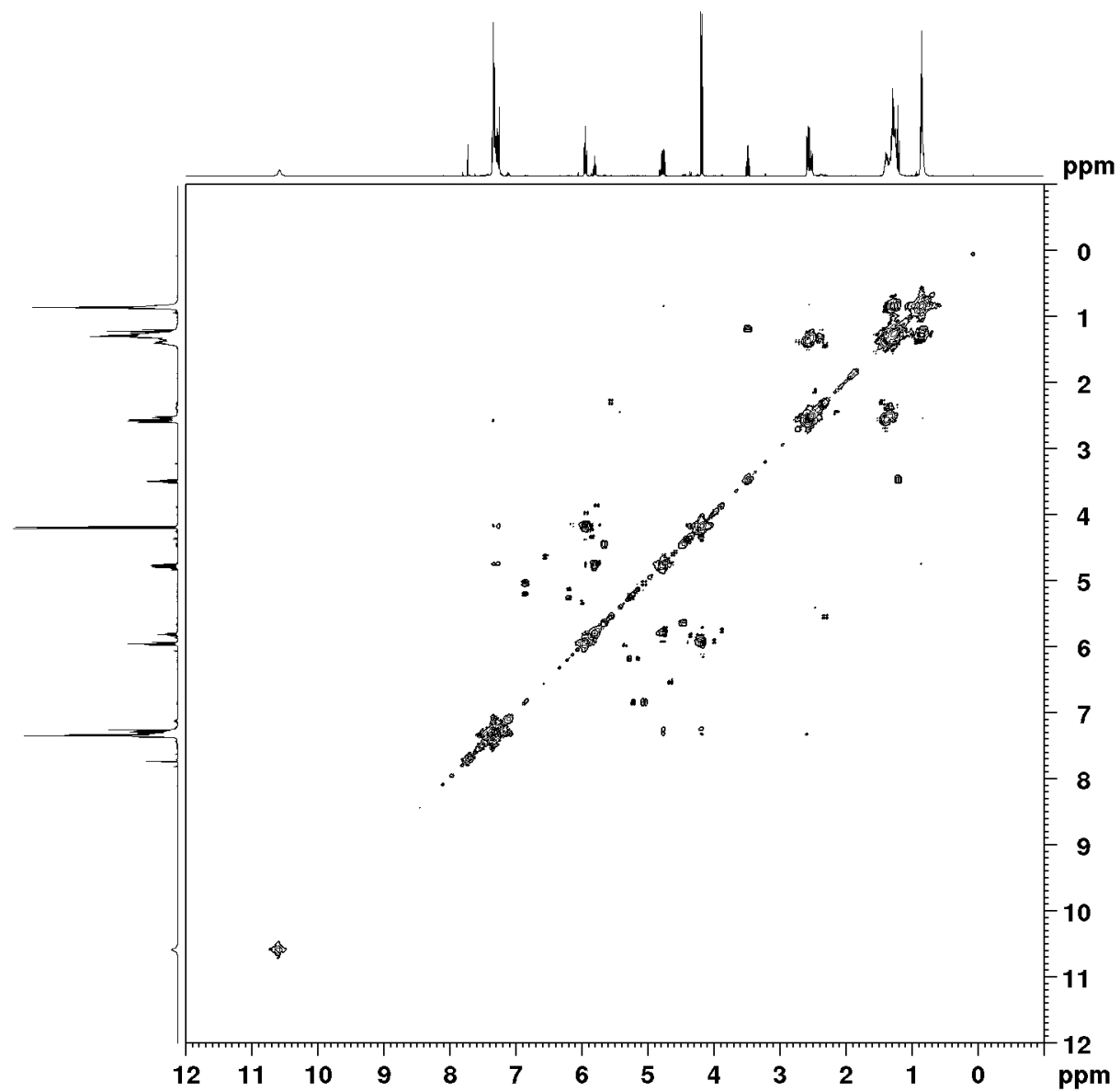
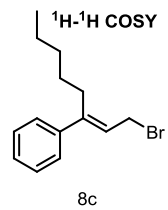


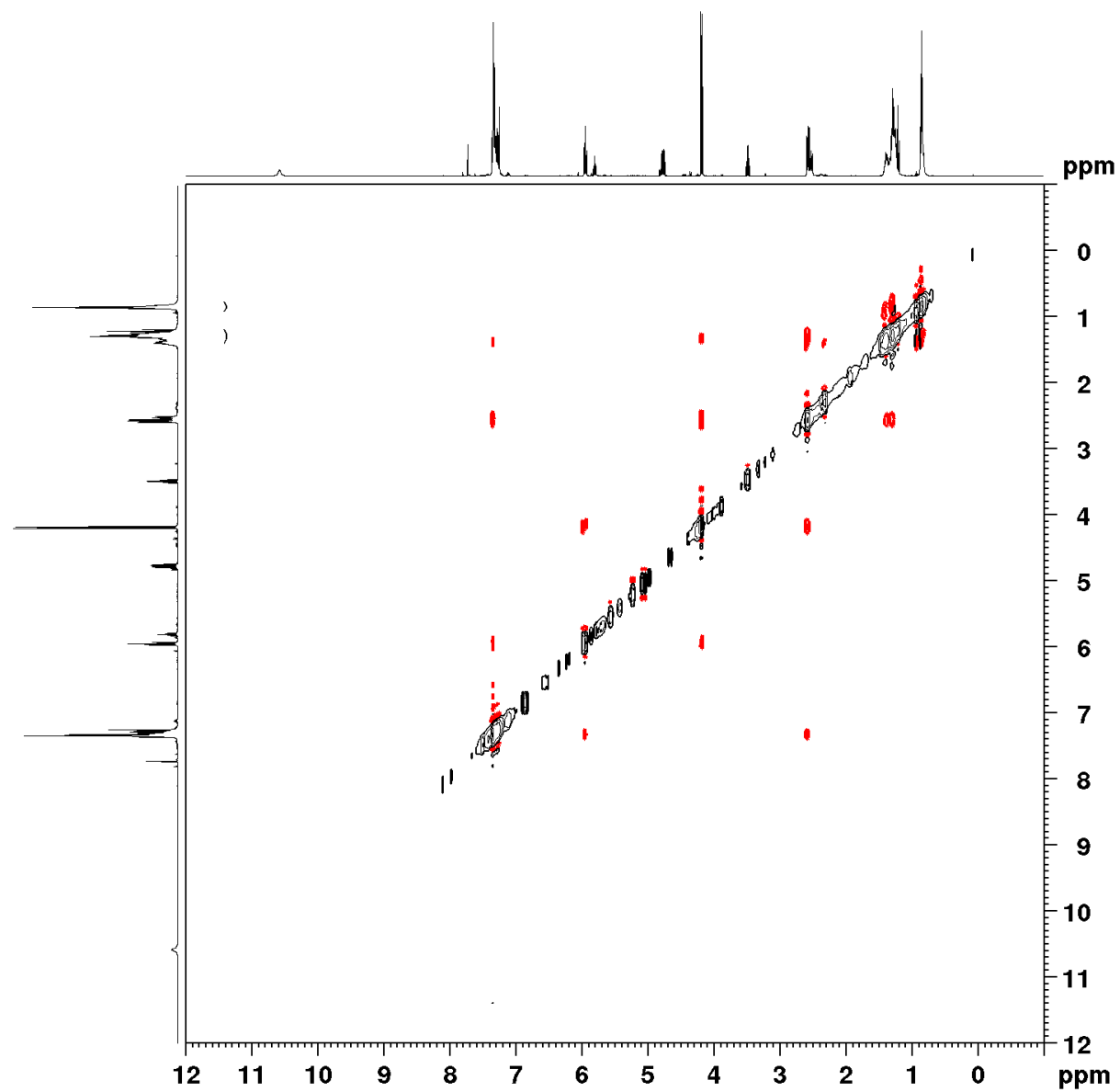
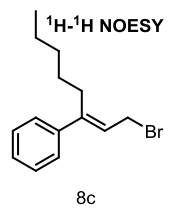
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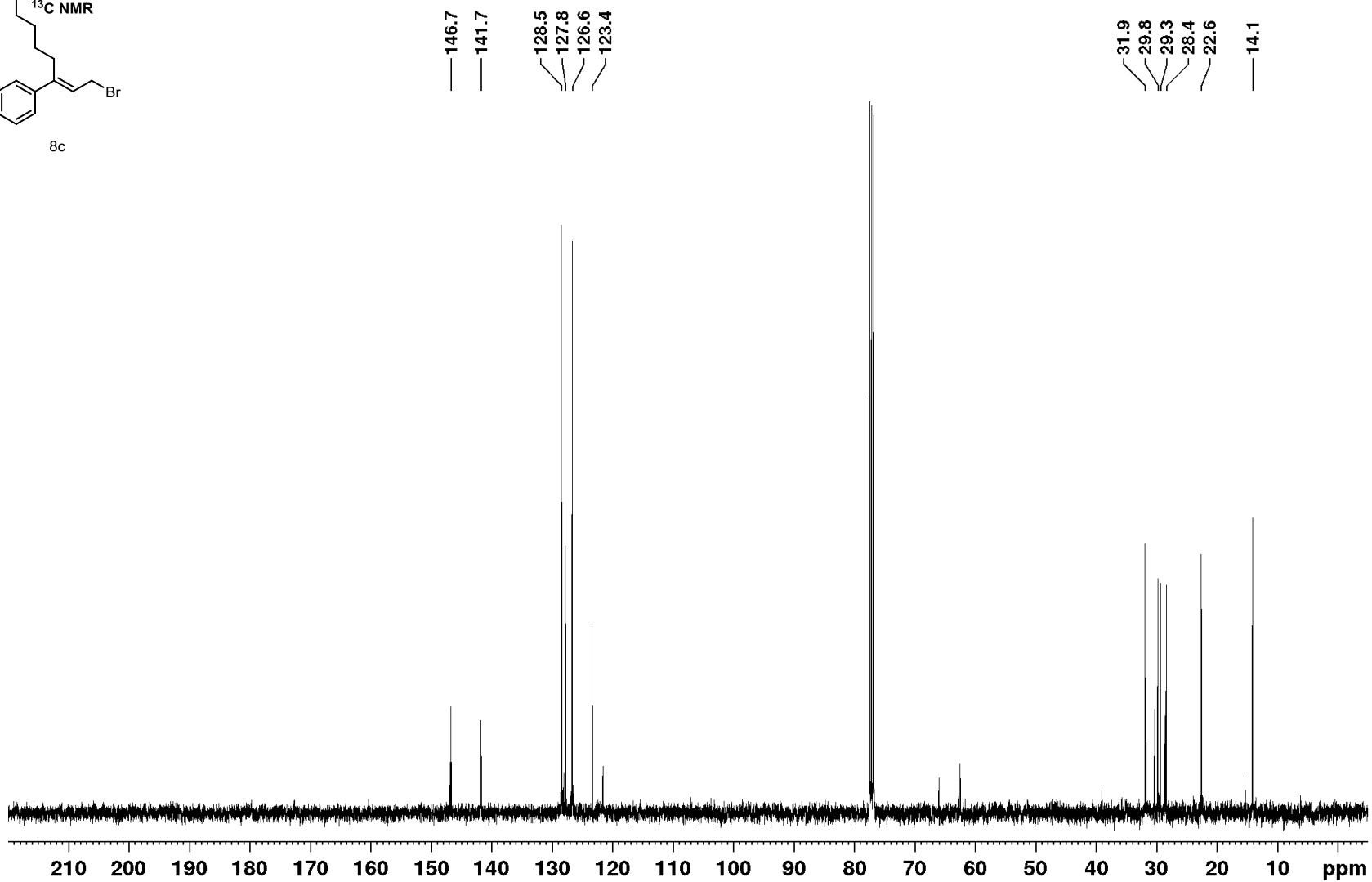
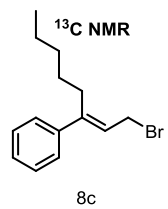


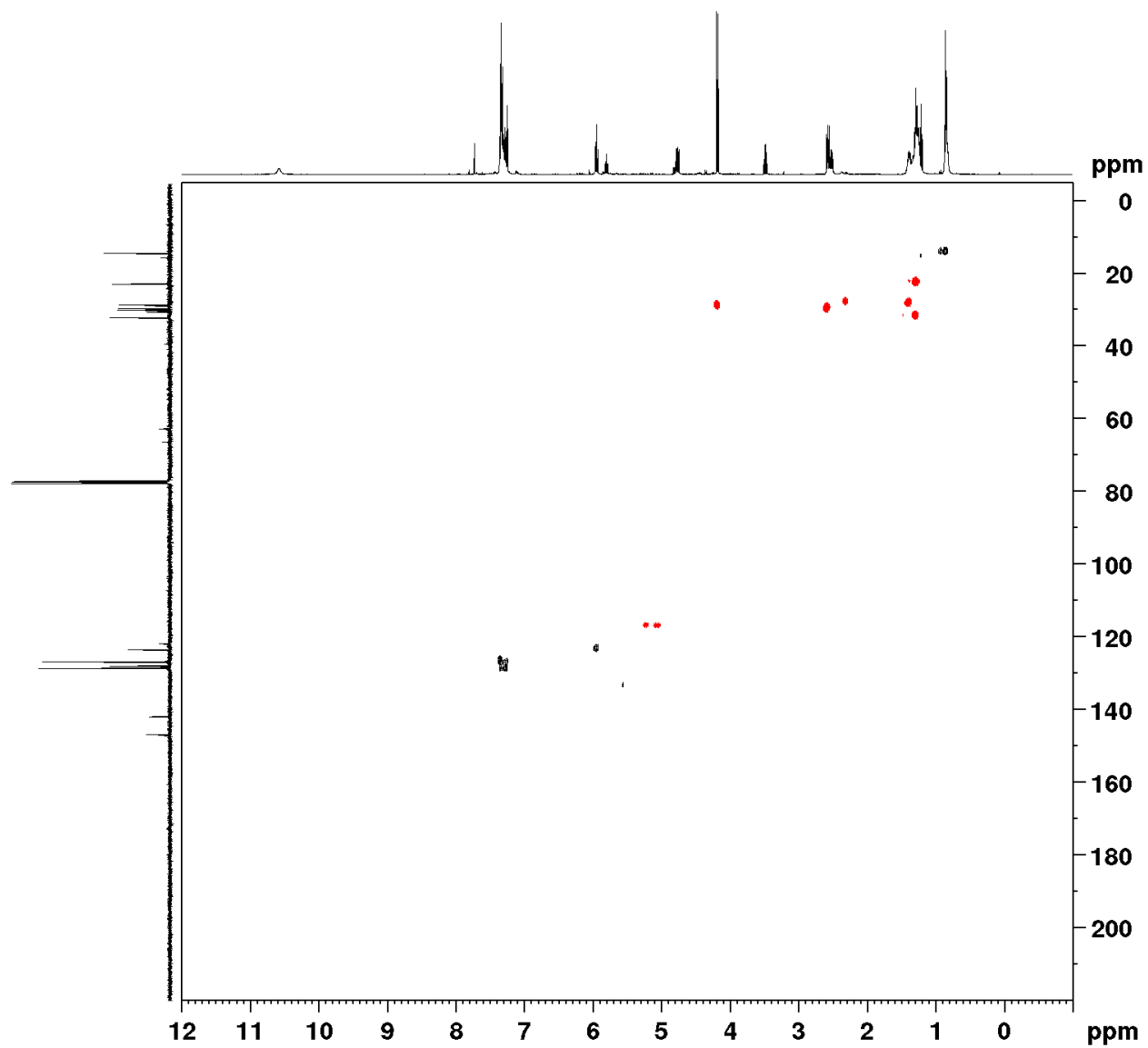
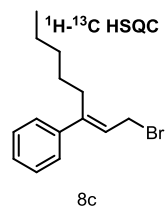


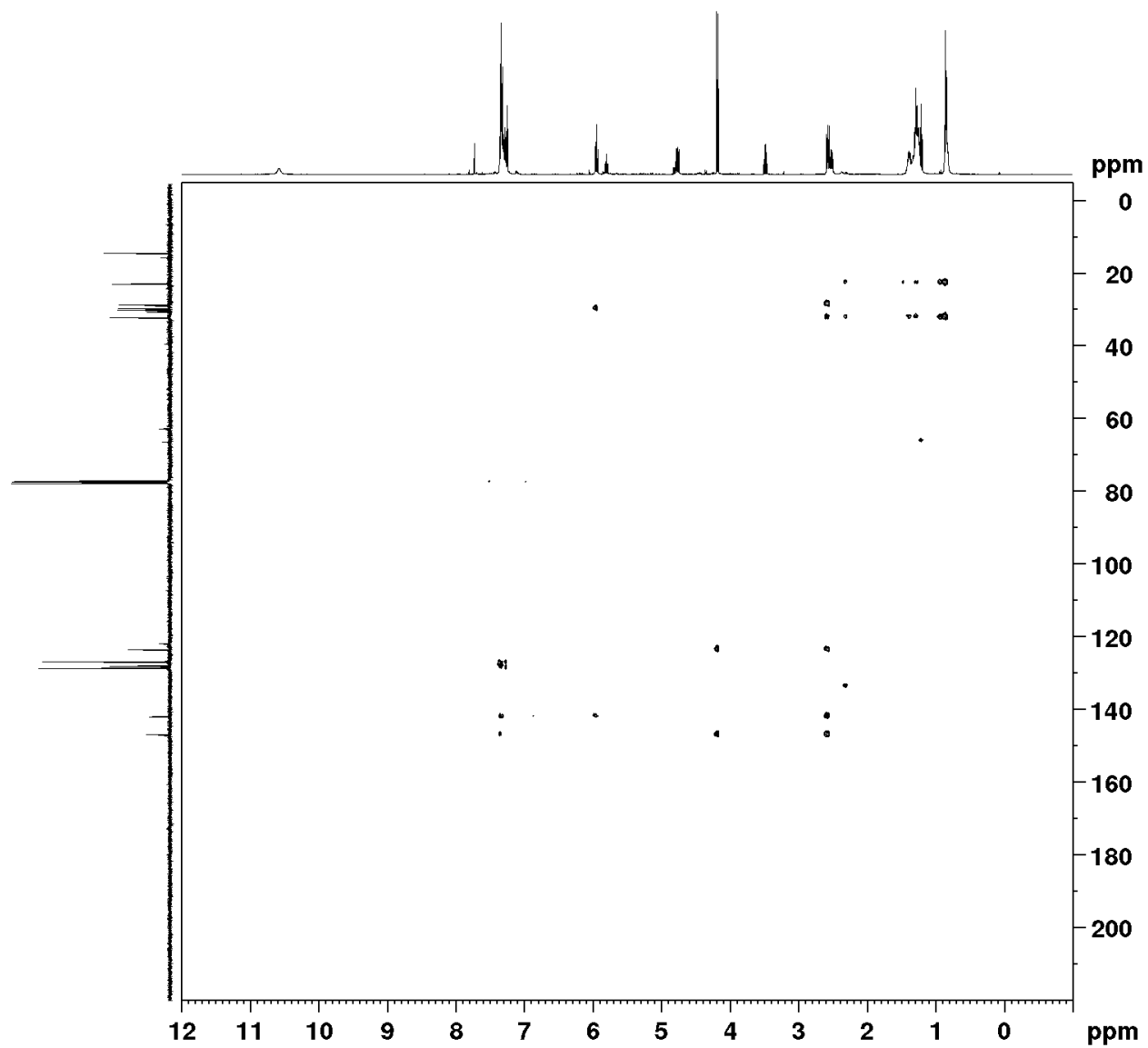
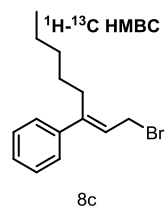


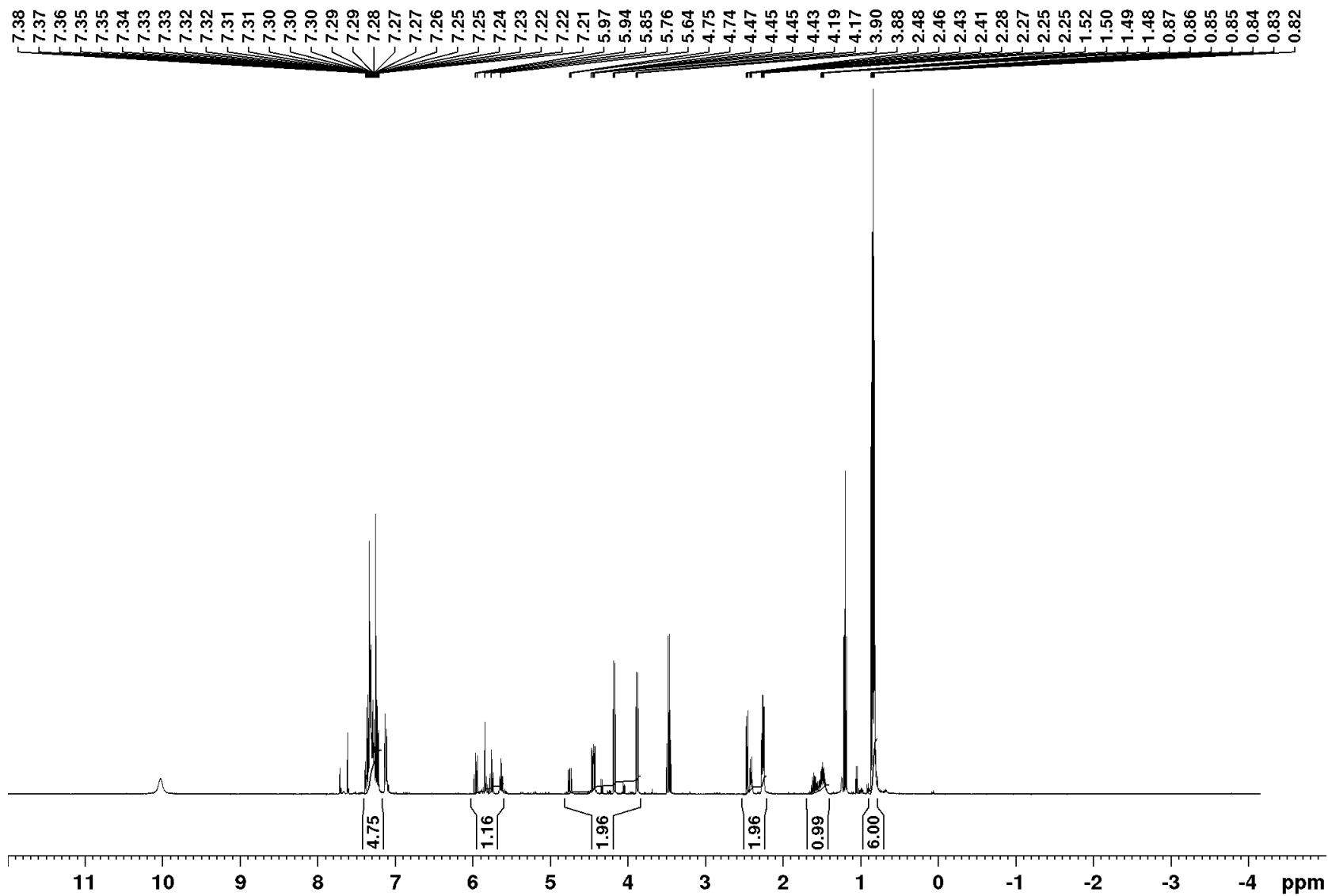


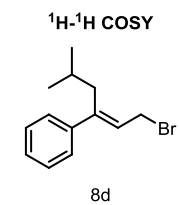
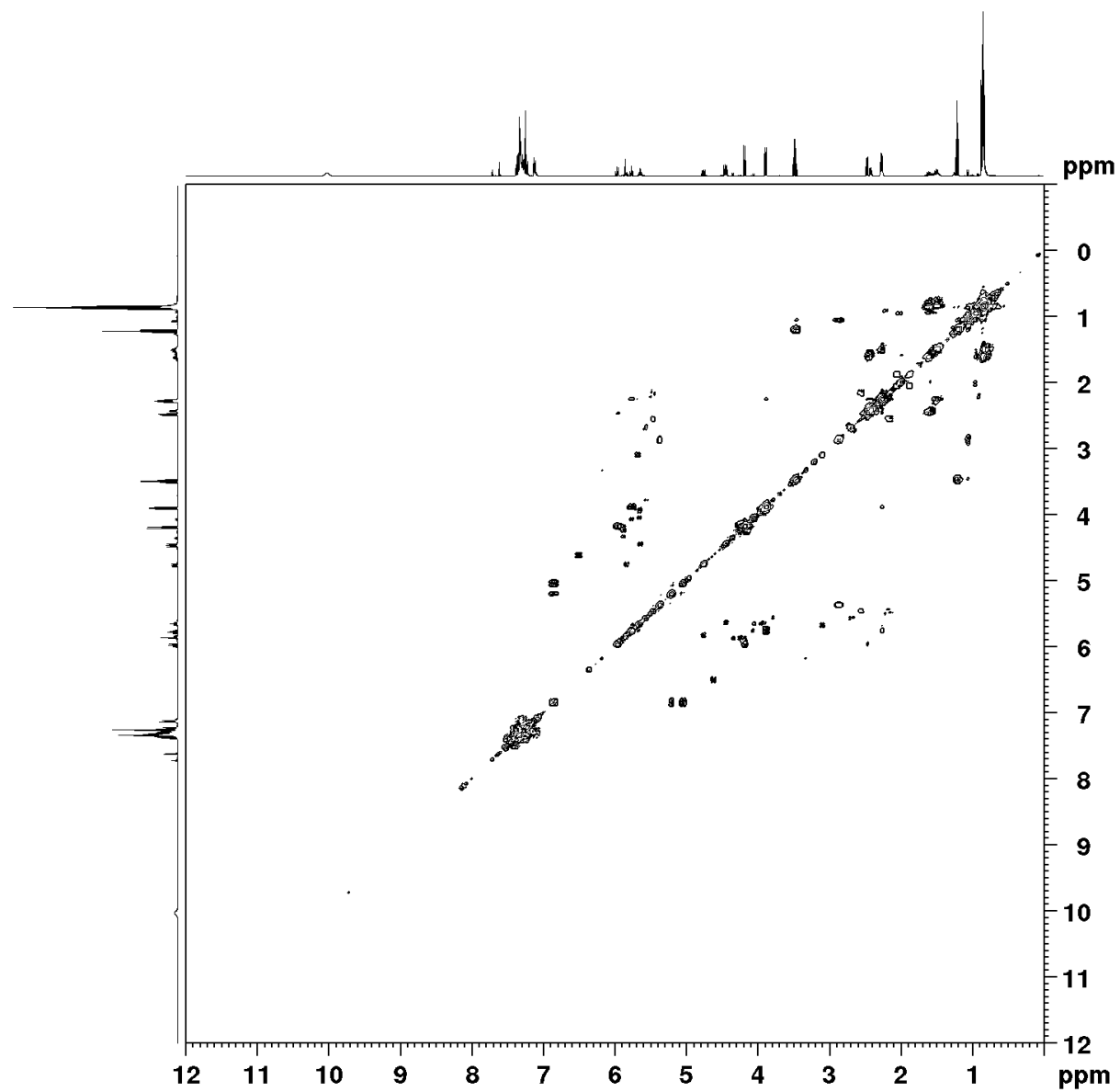


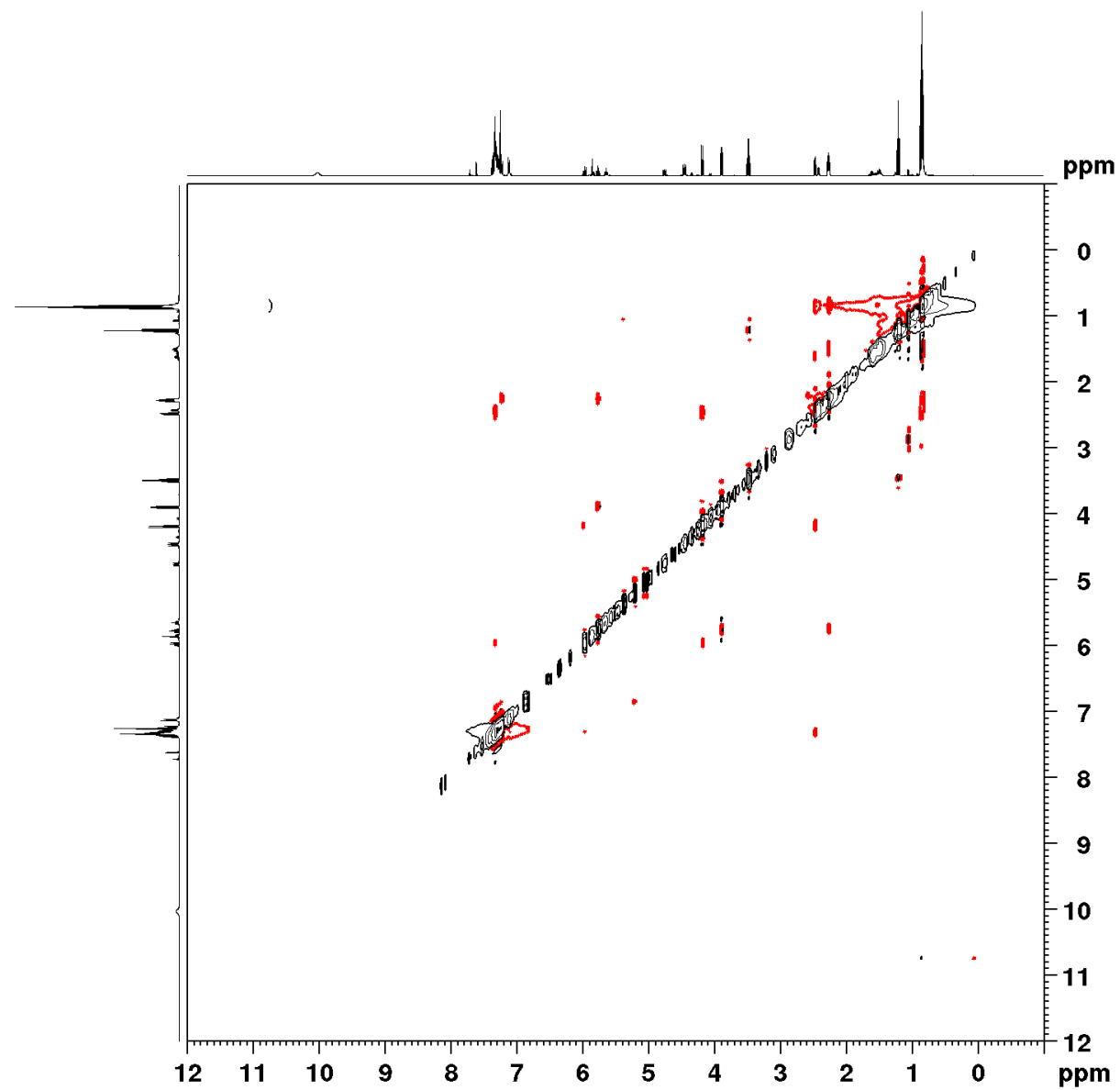
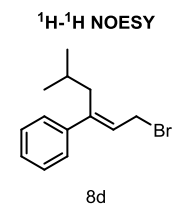


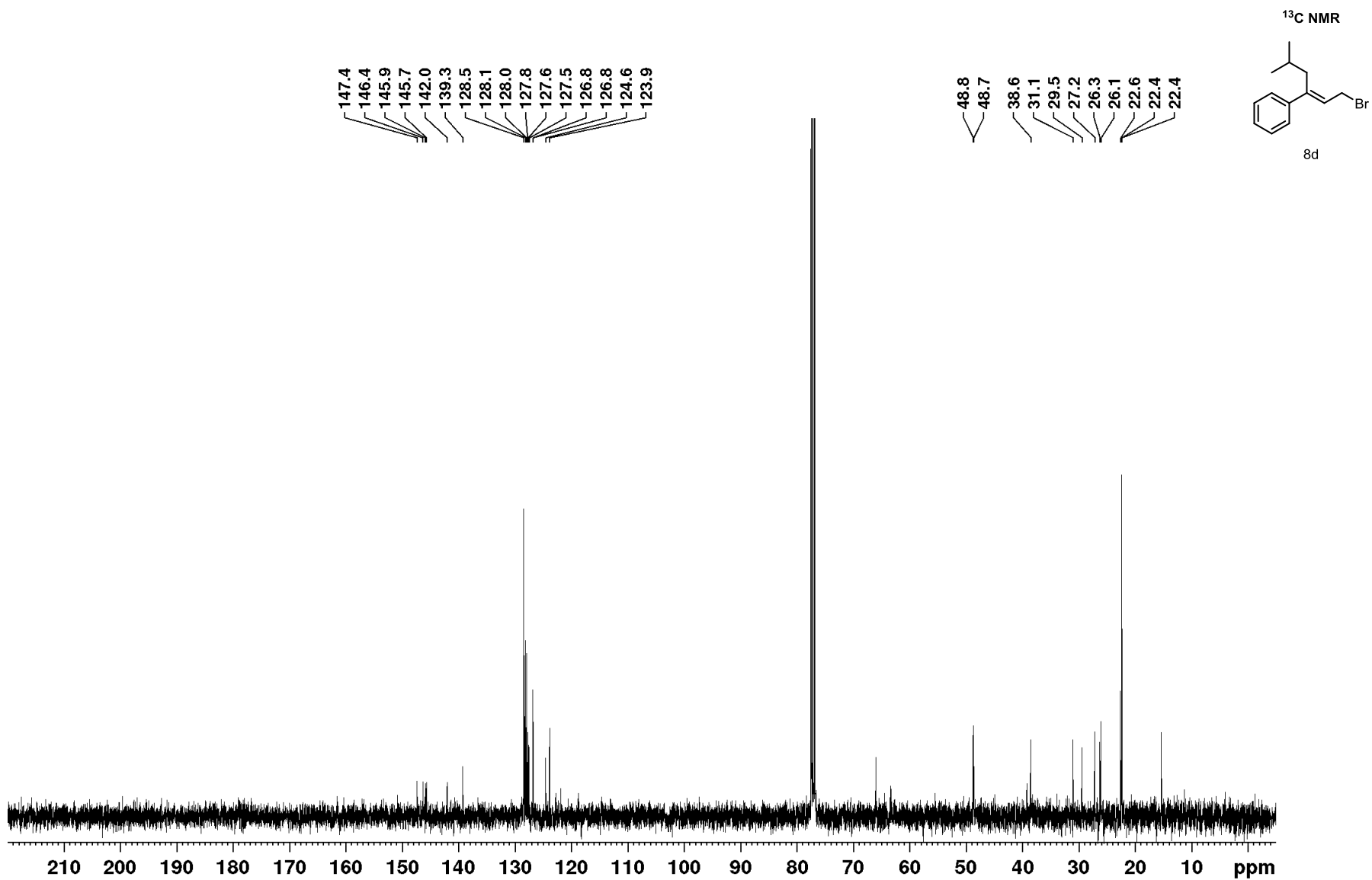


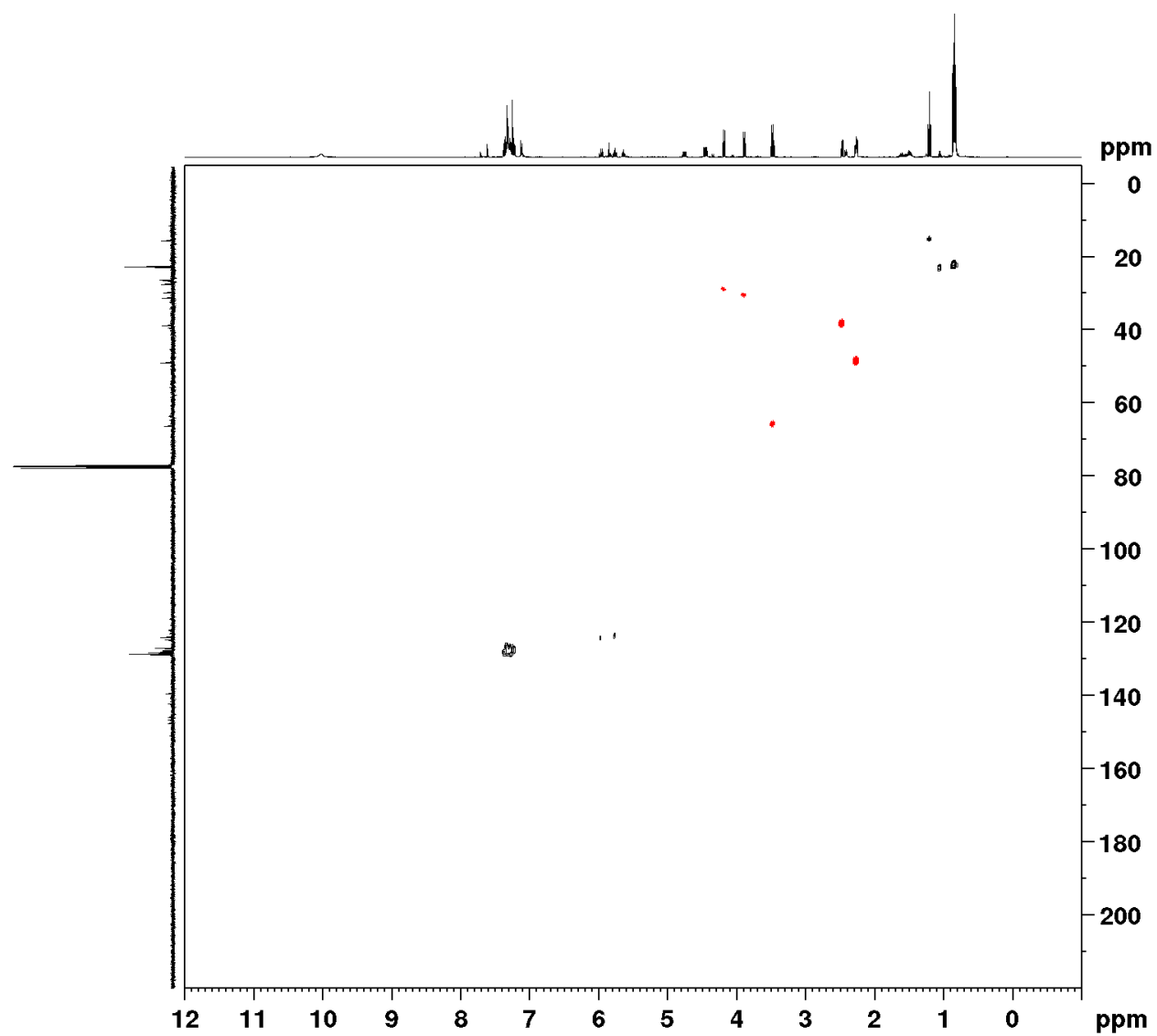
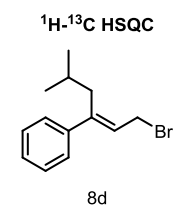


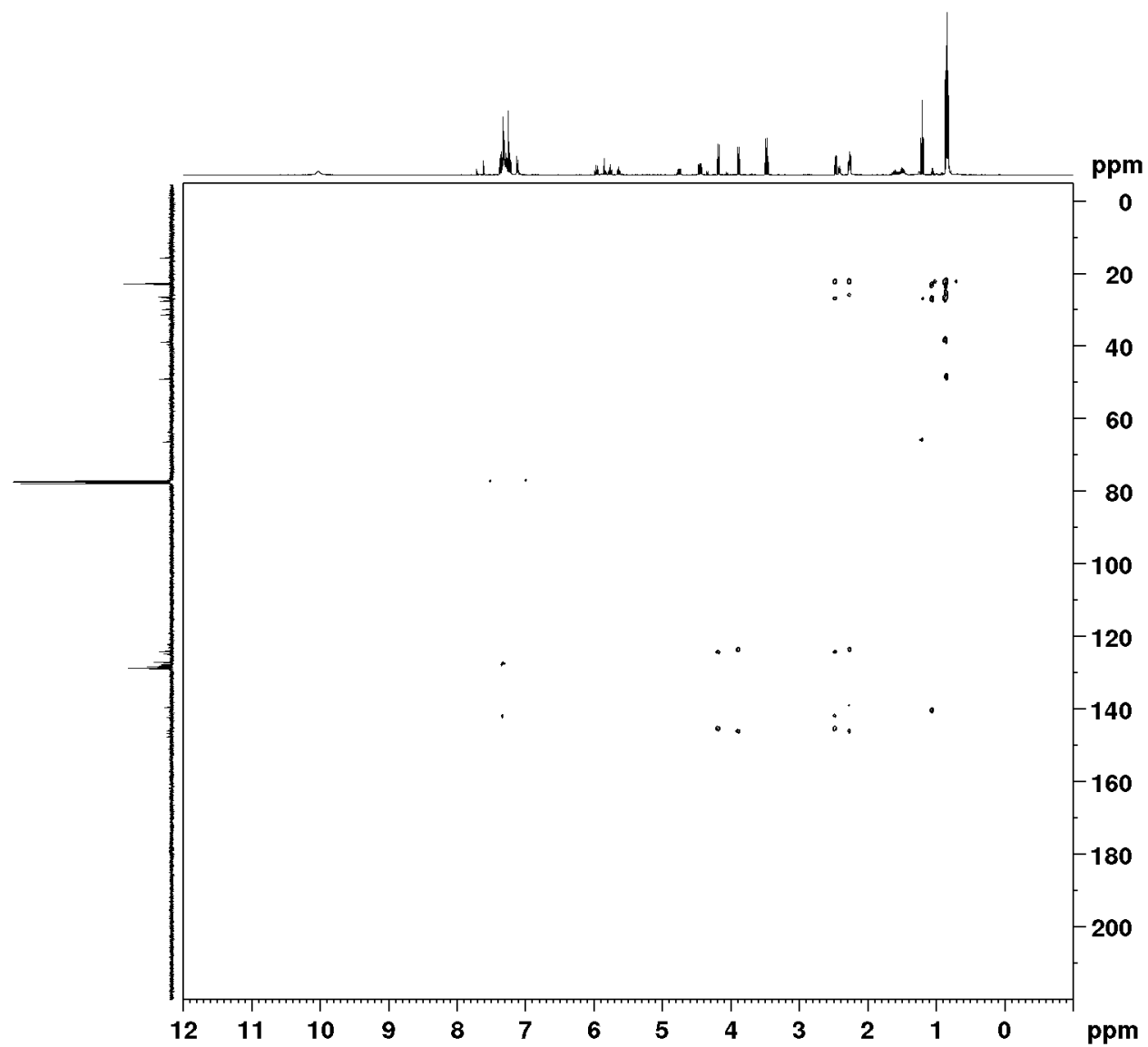
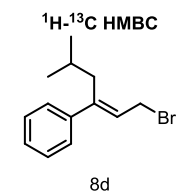


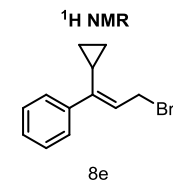
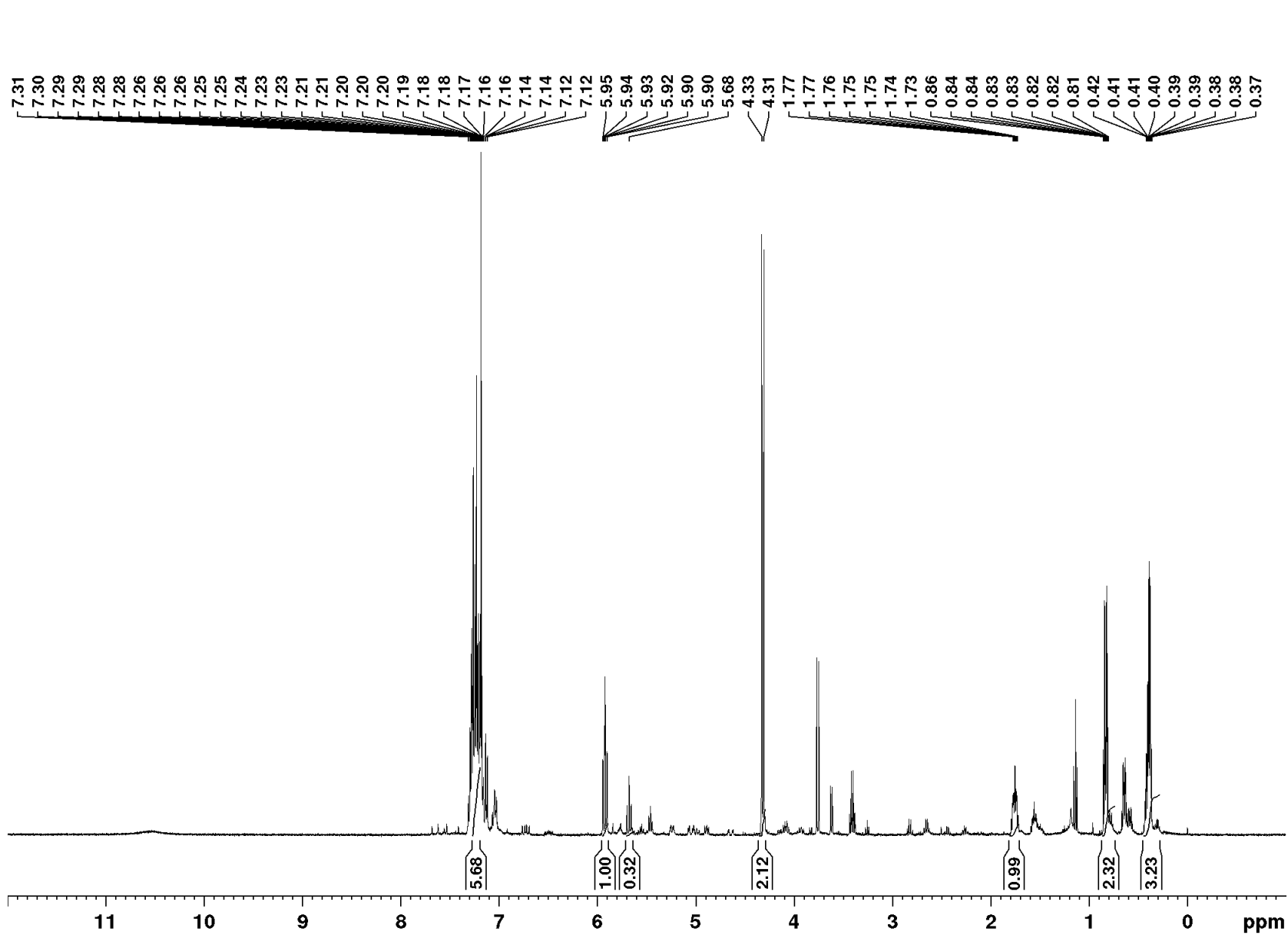


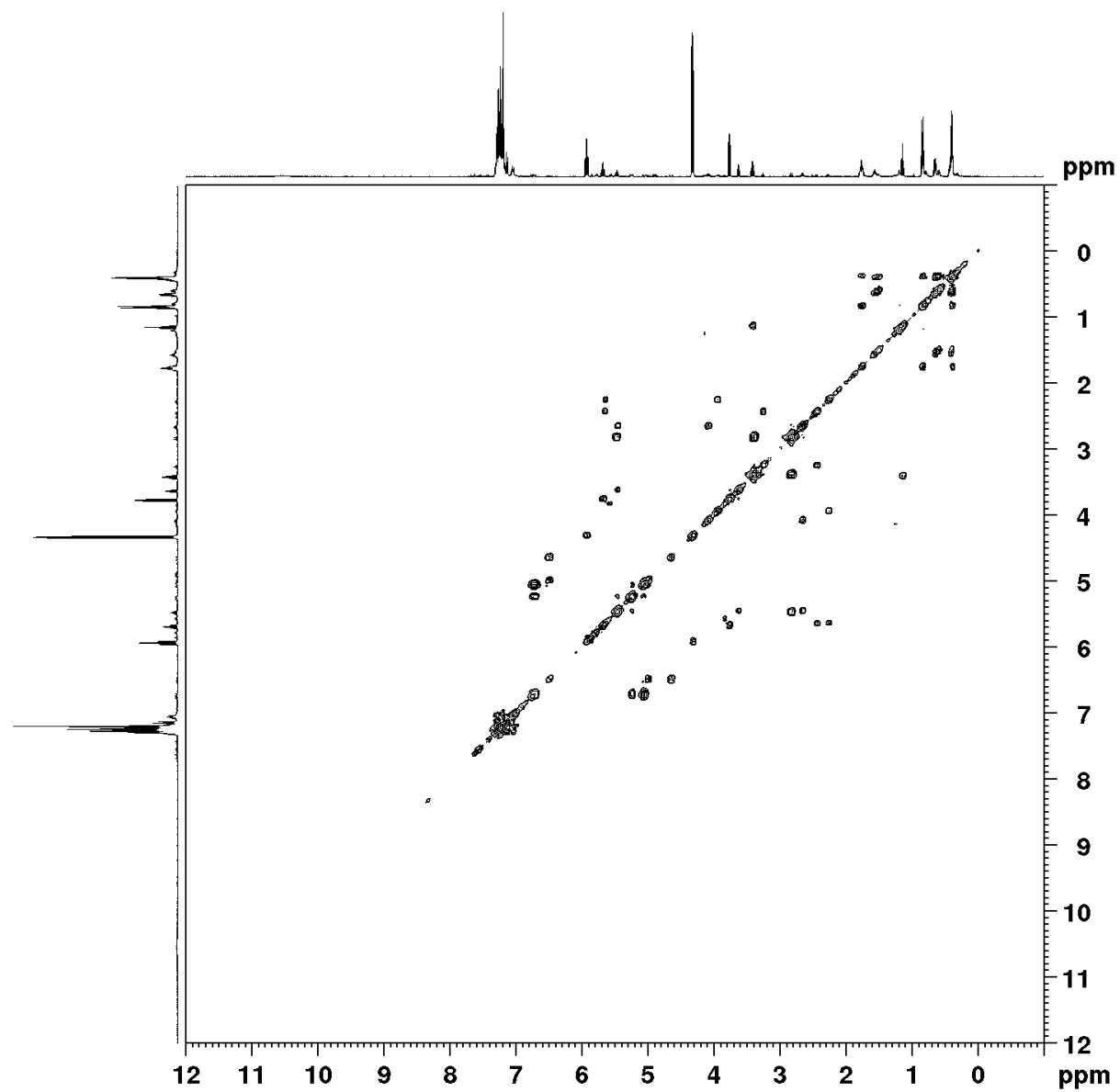
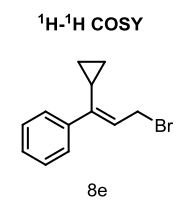




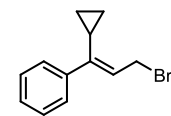




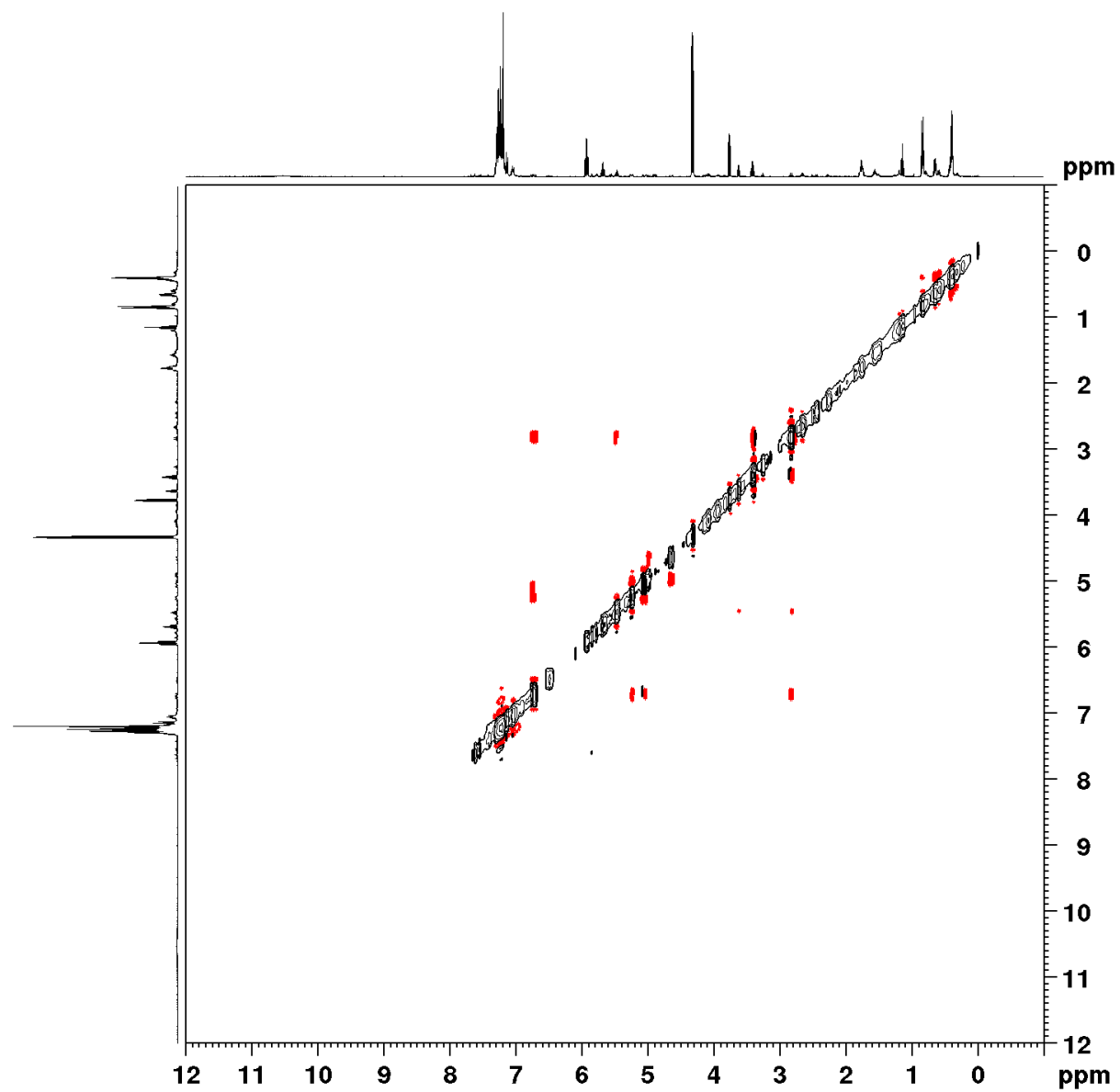


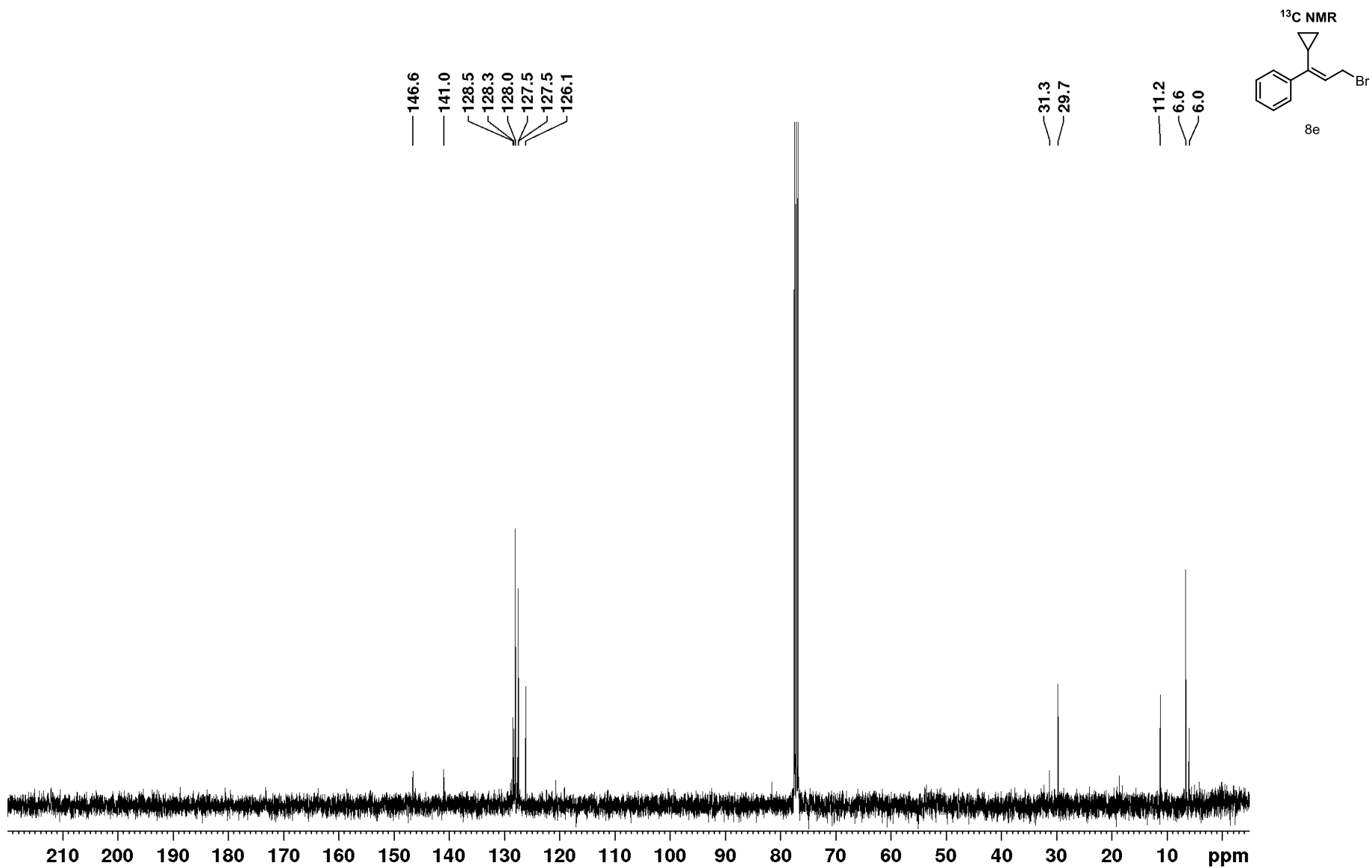


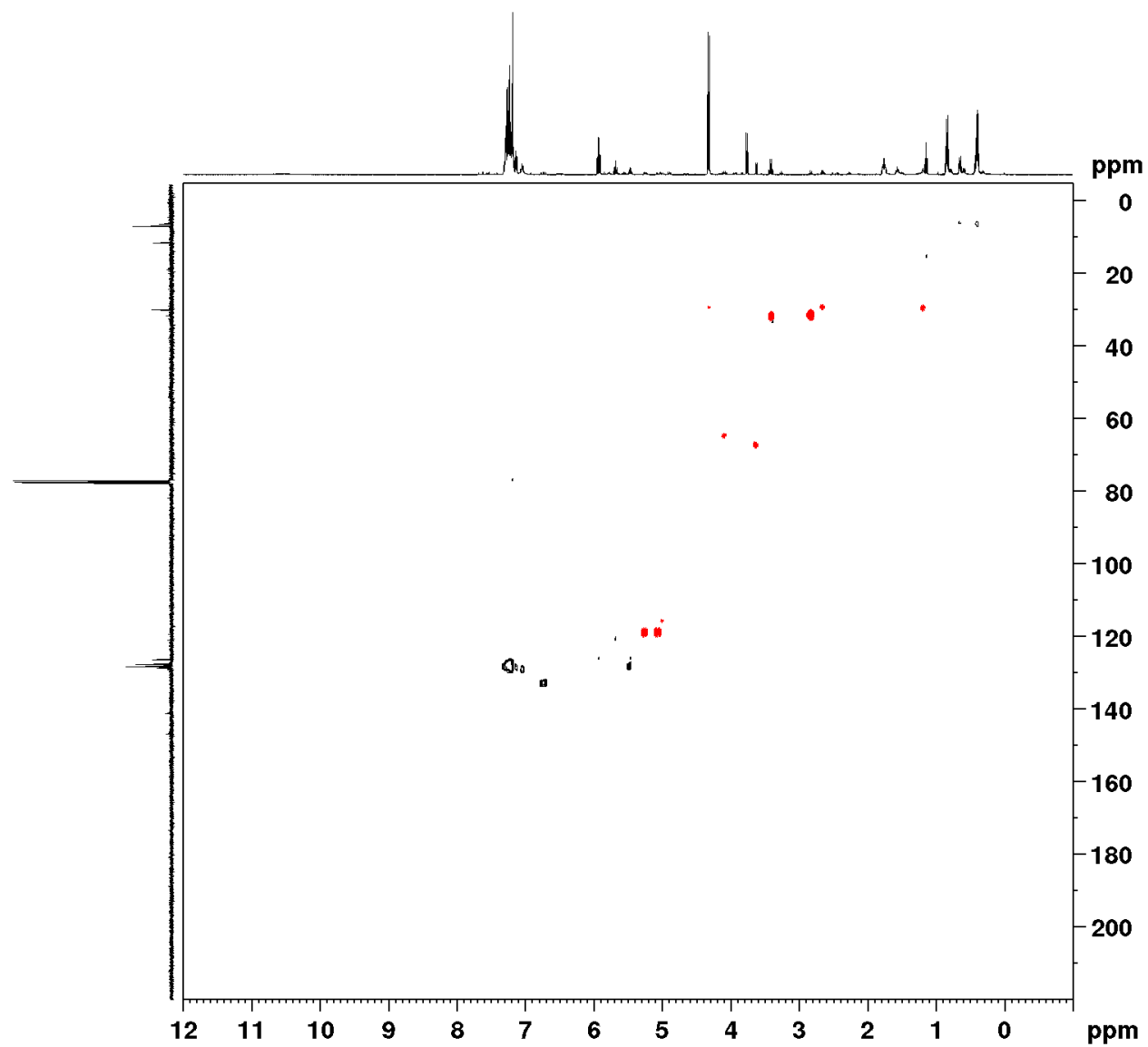
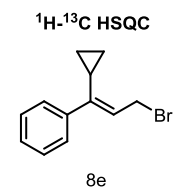
¹H-¹H NOESY

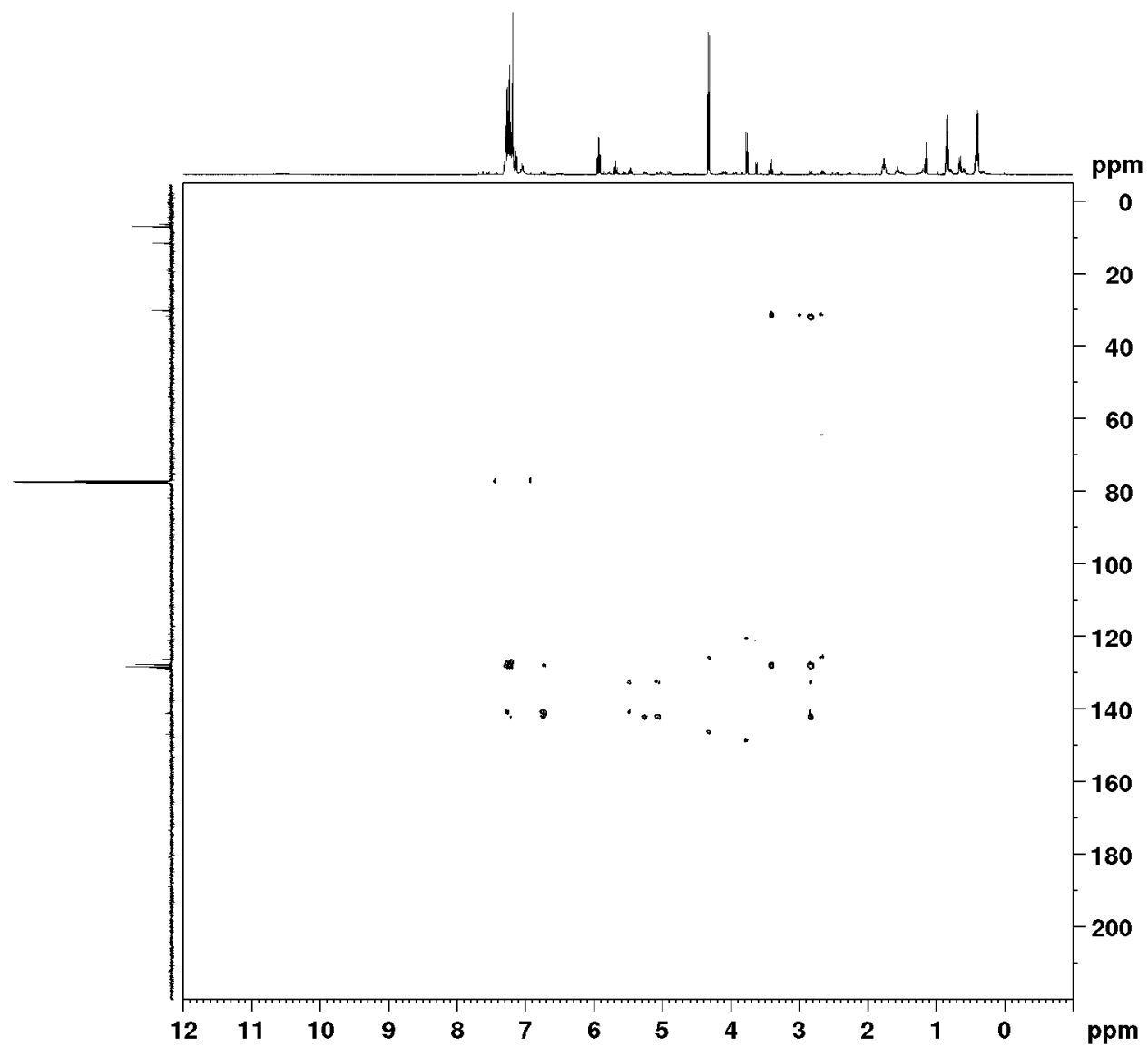
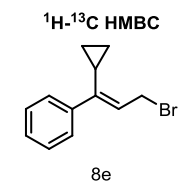


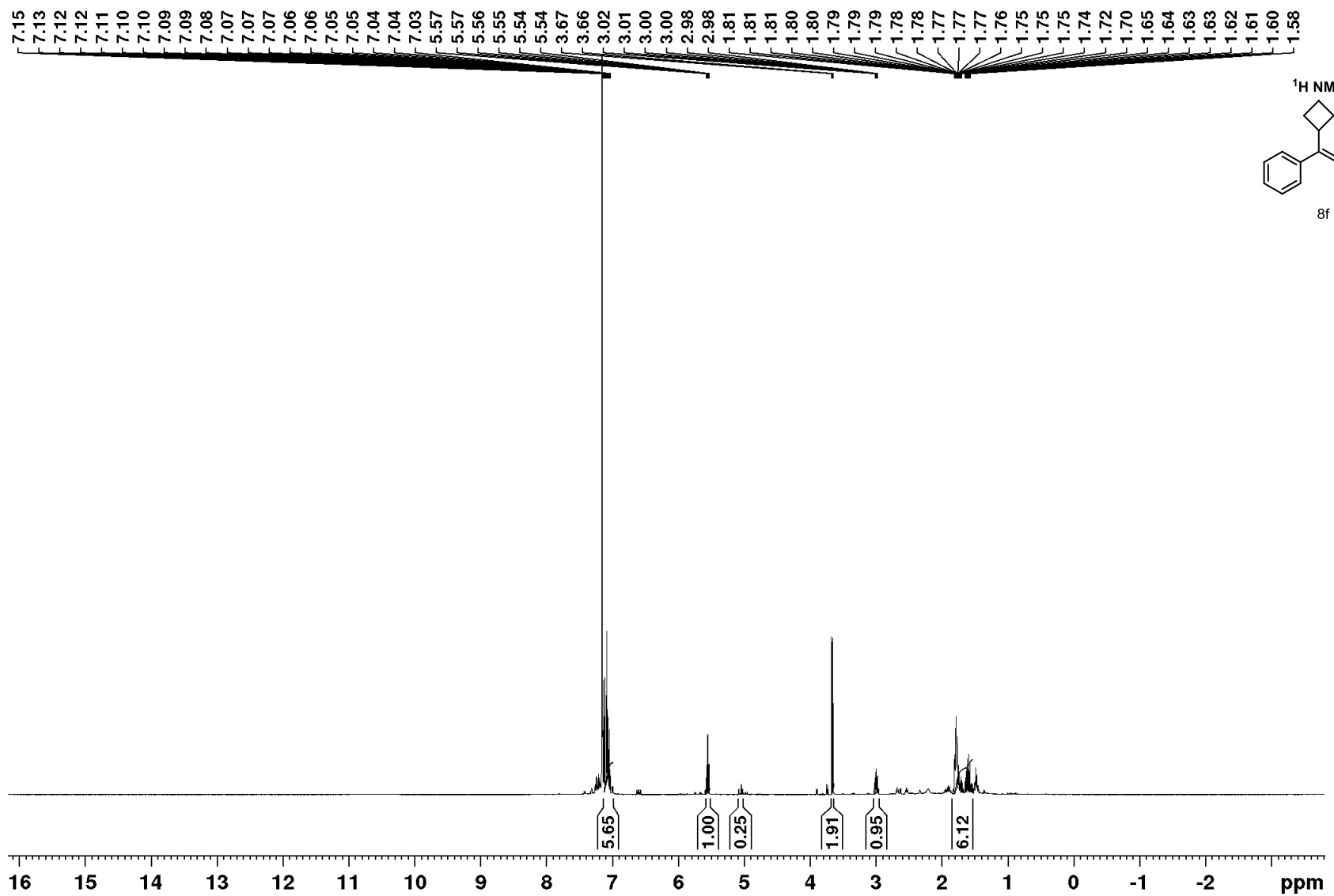
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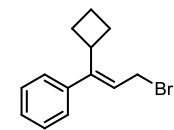




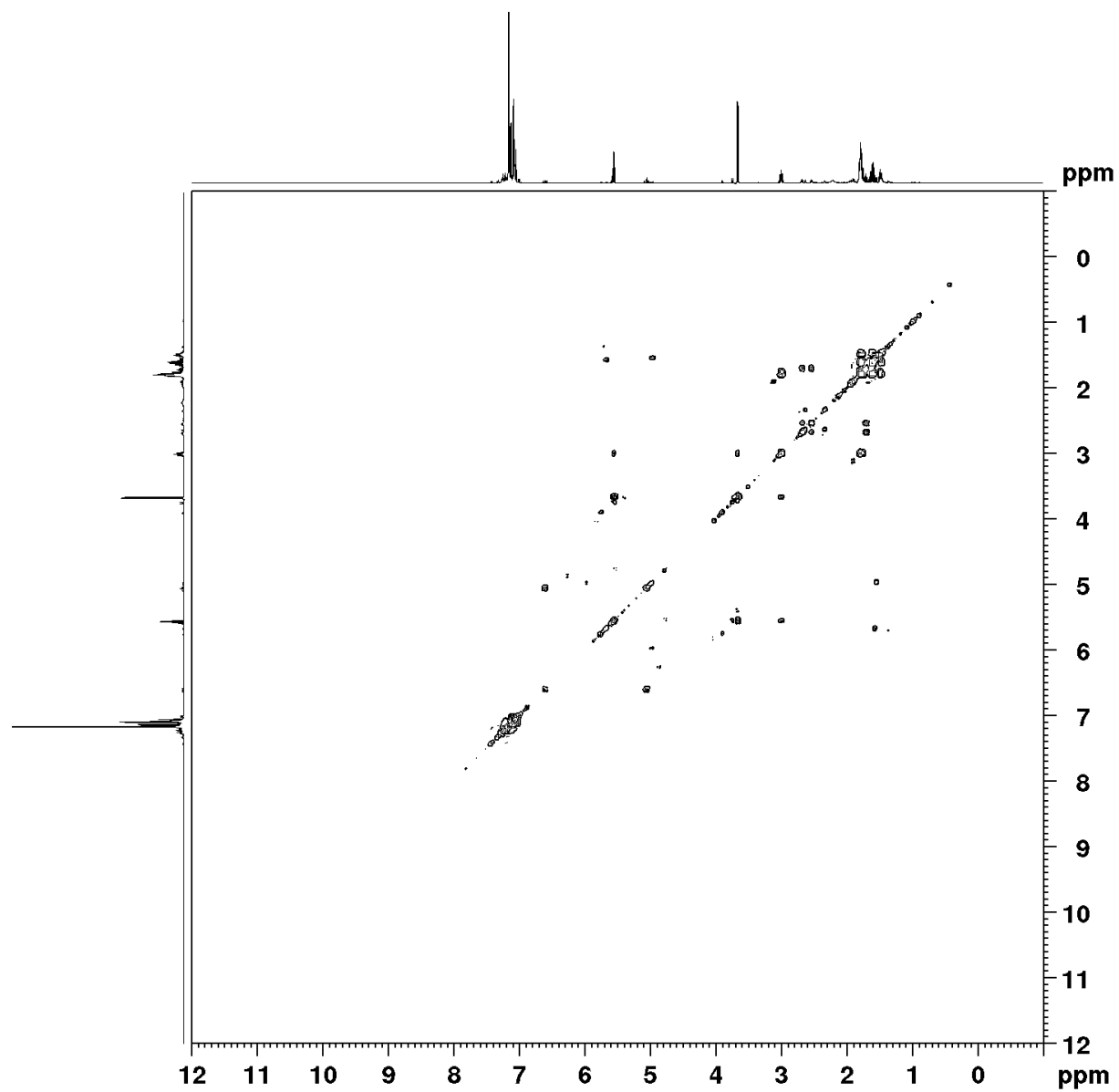


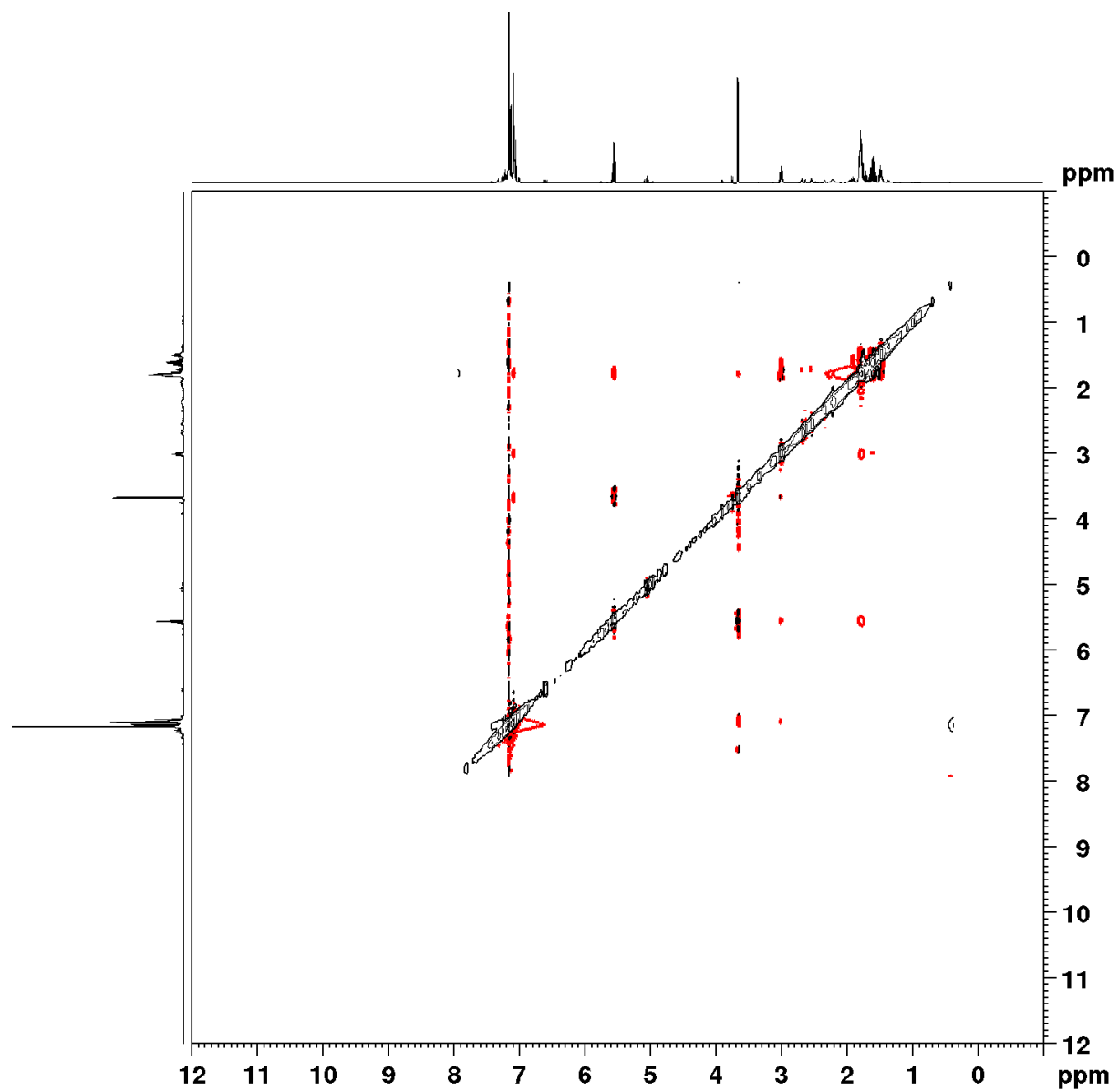
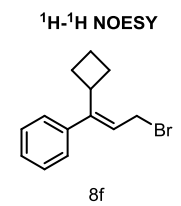


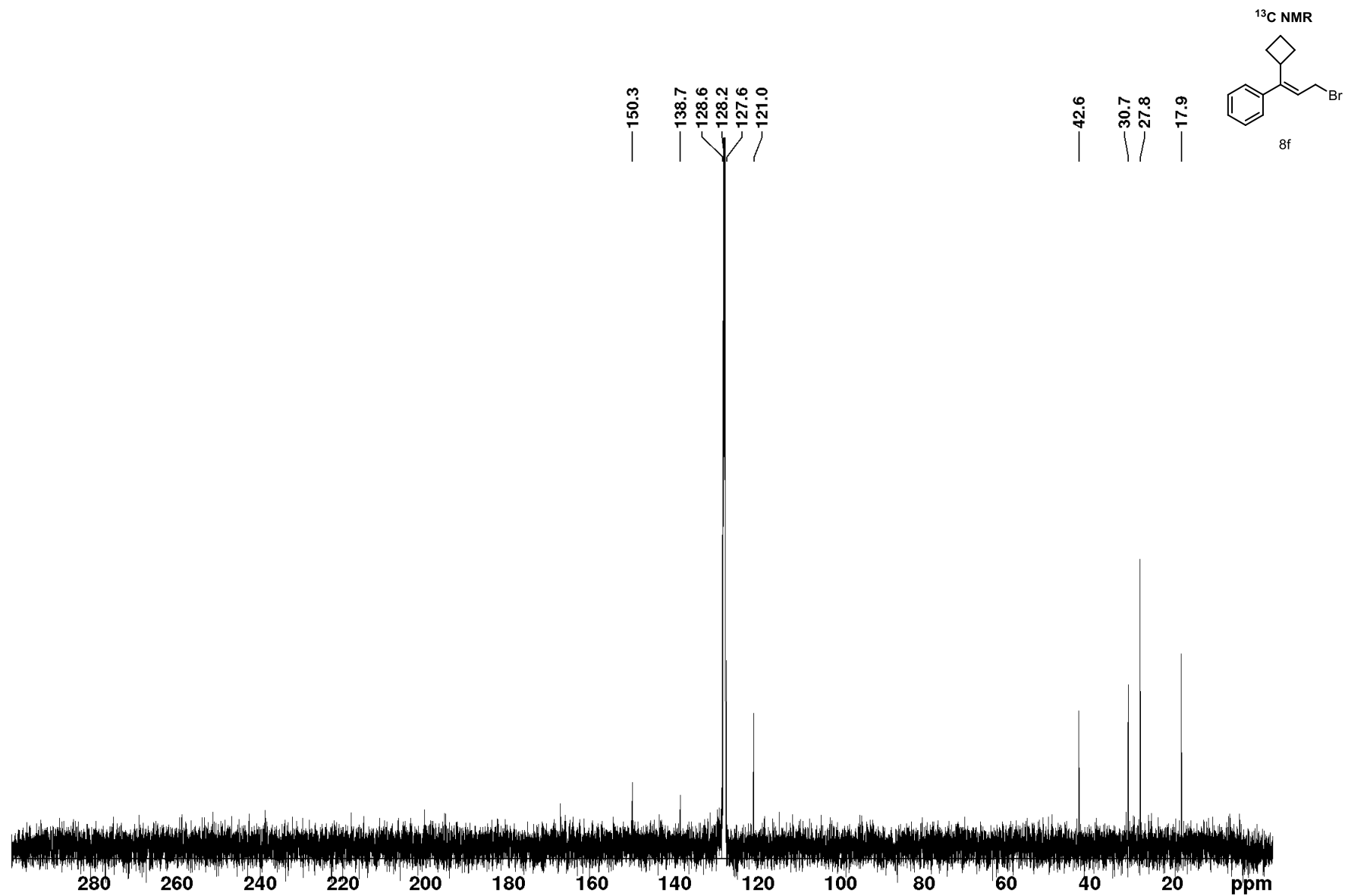
^1H - ^1H COSY

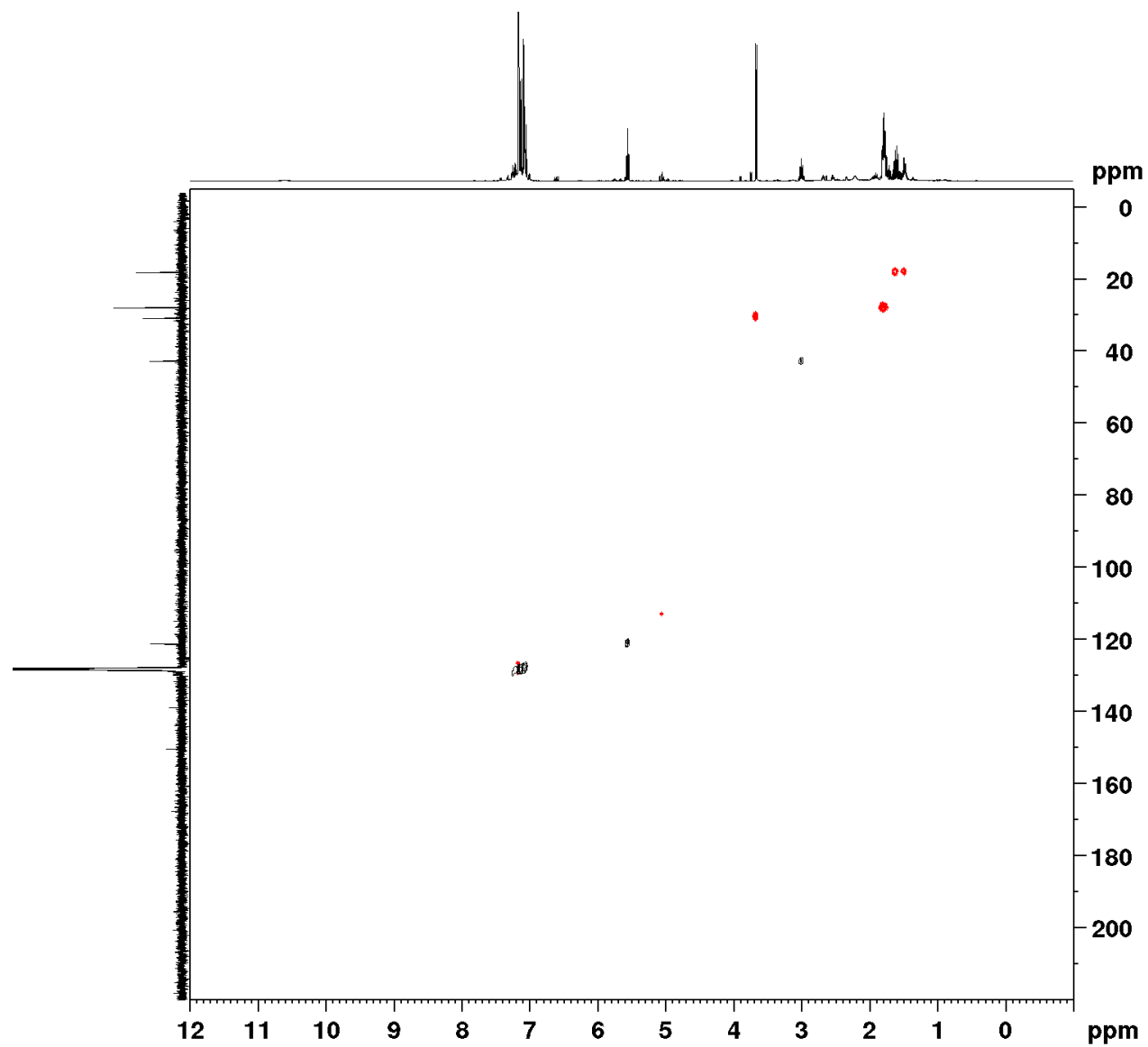
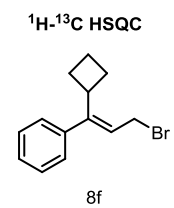


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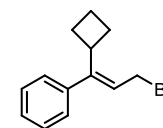




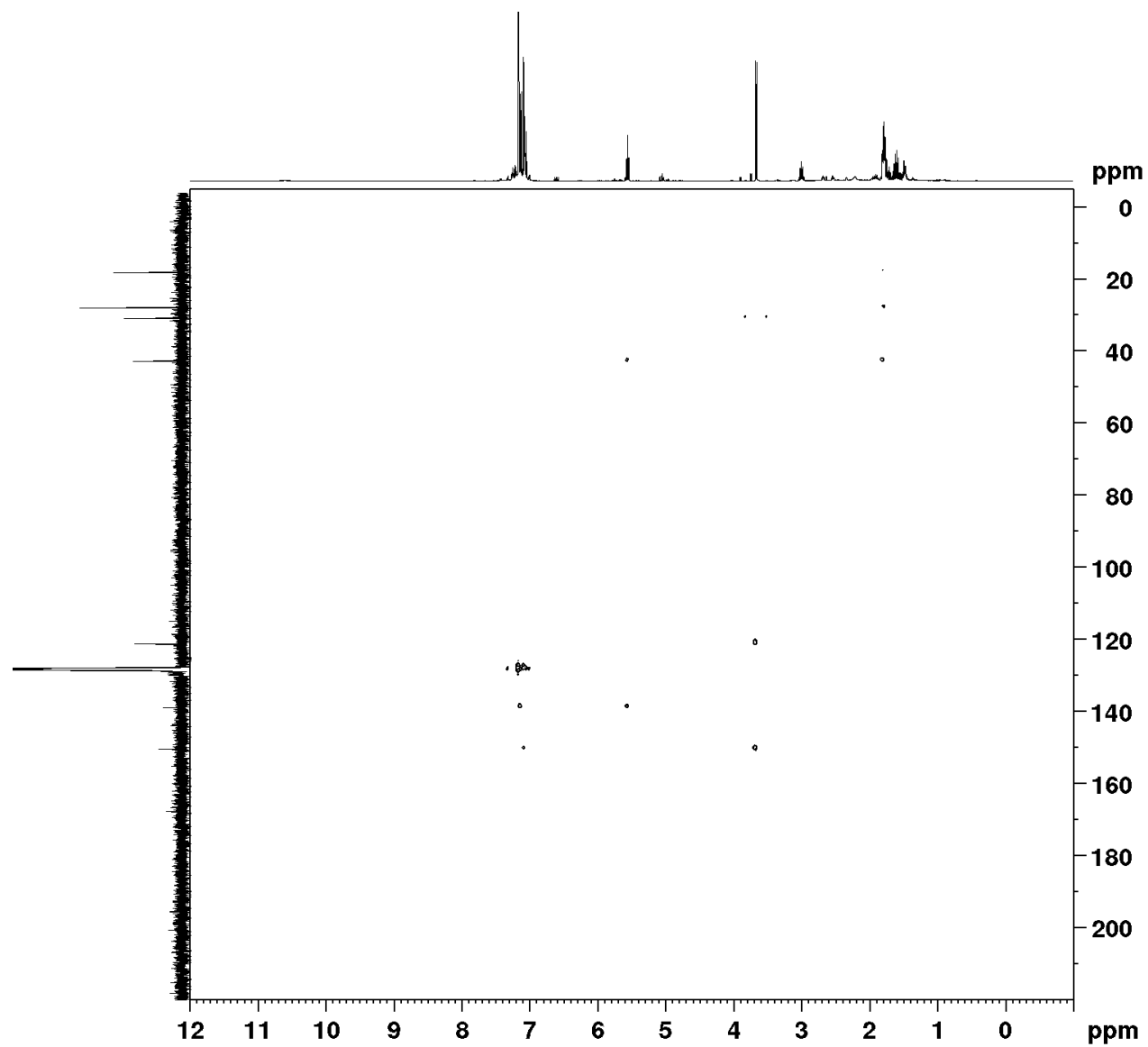


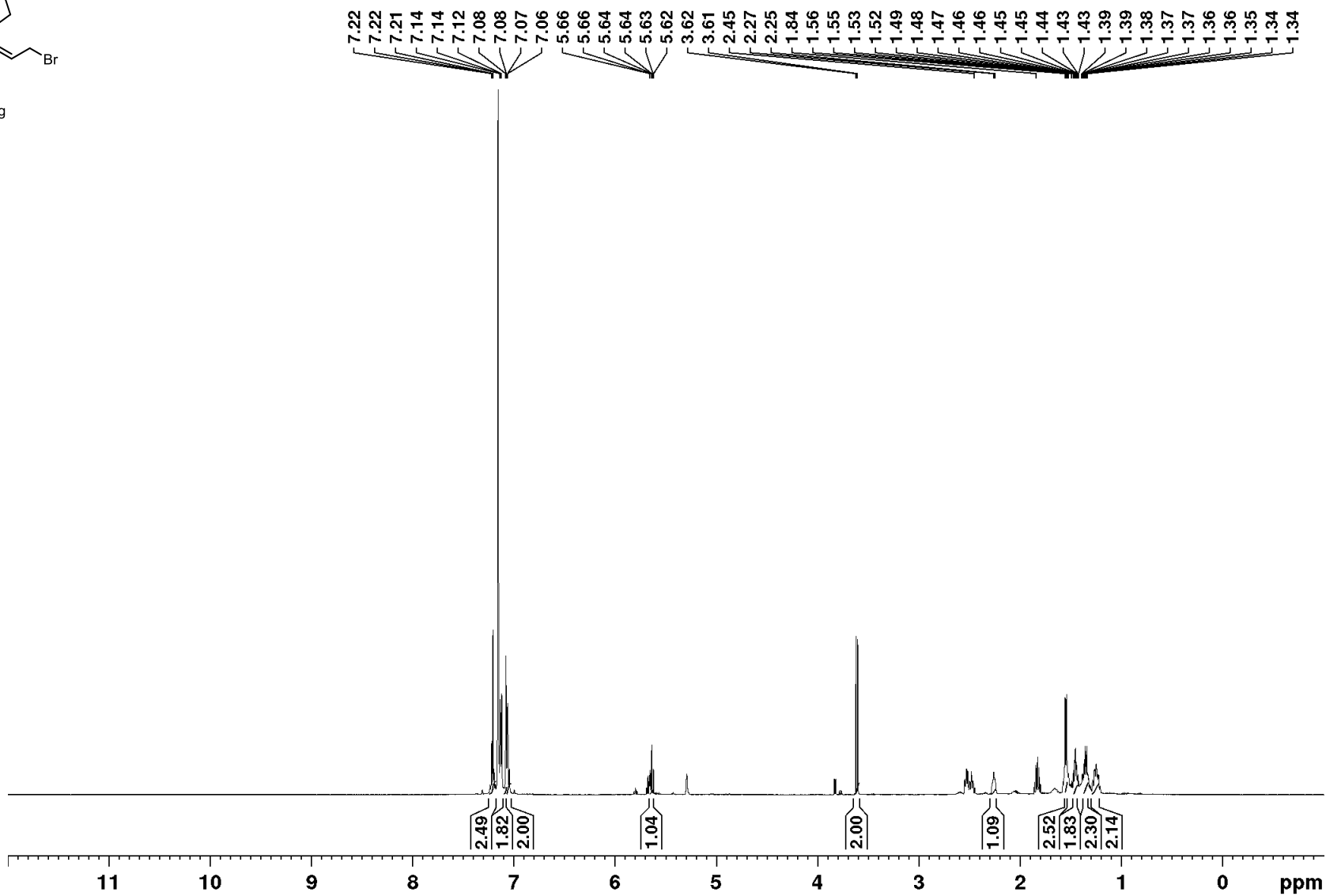
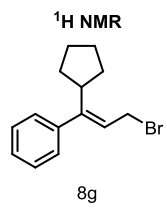


^1H - ^{13}C HMBC

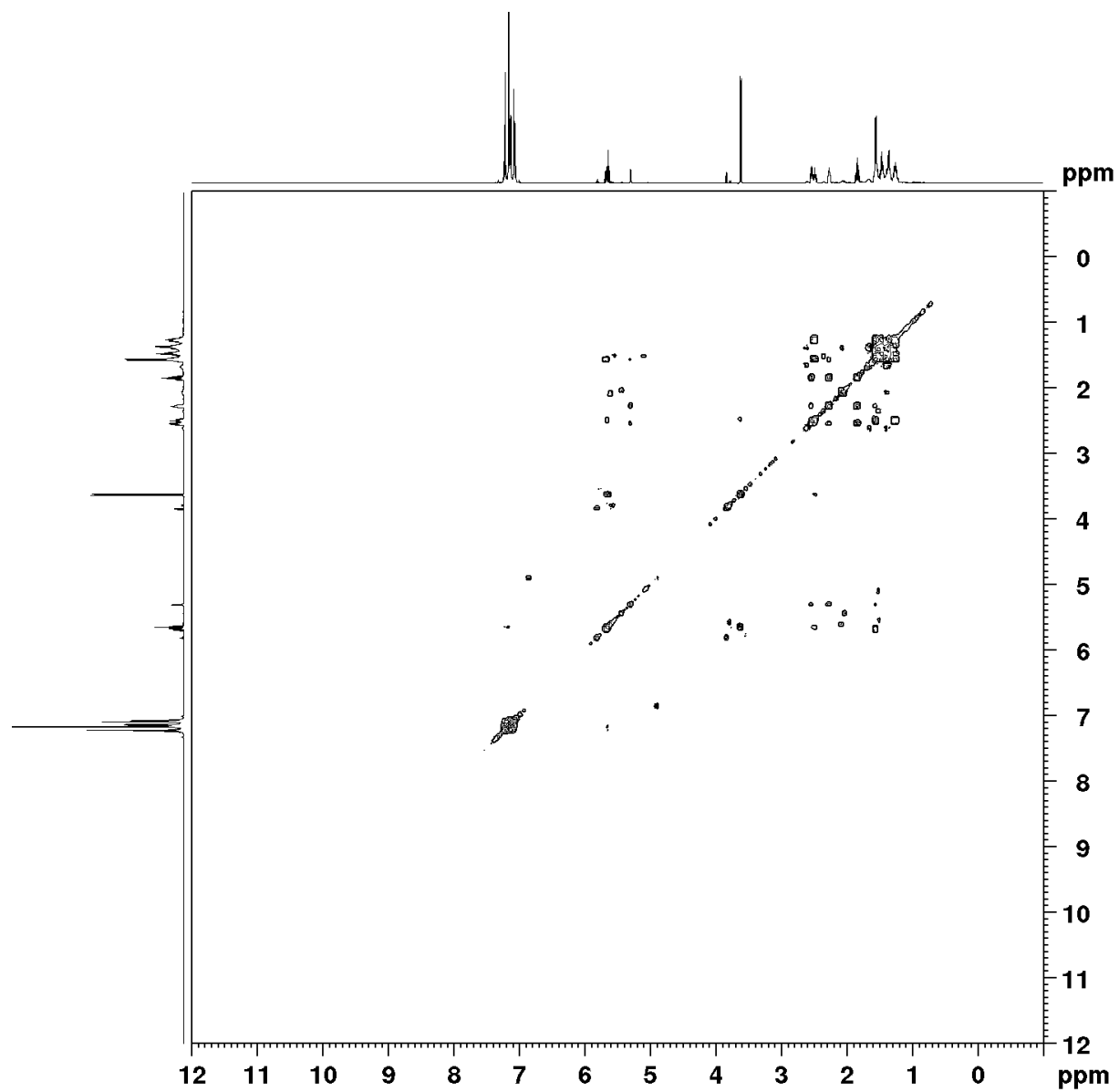
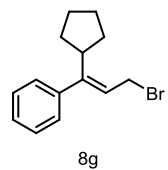


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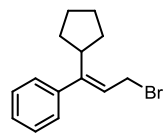




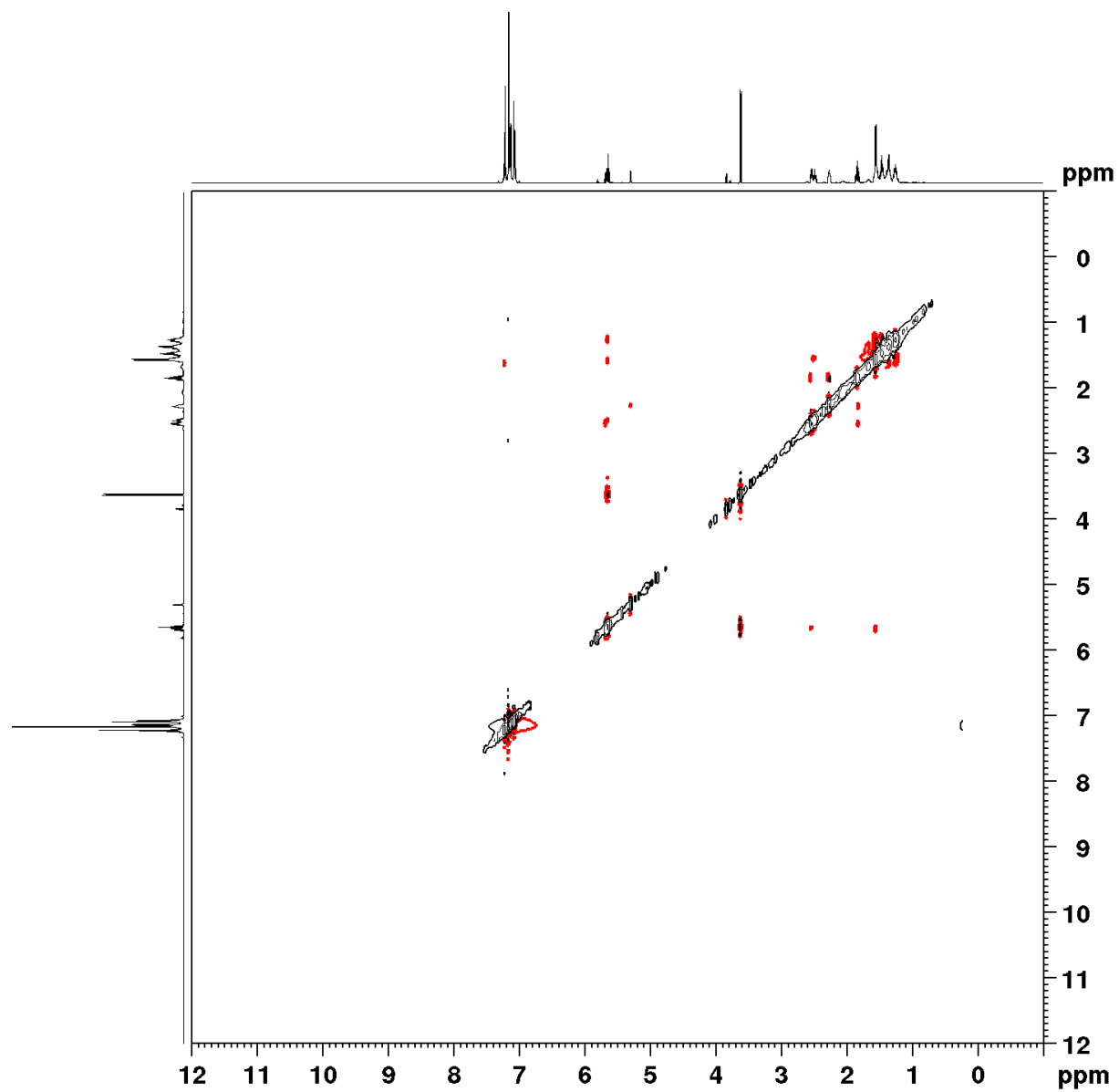
¹H-¹H COSY

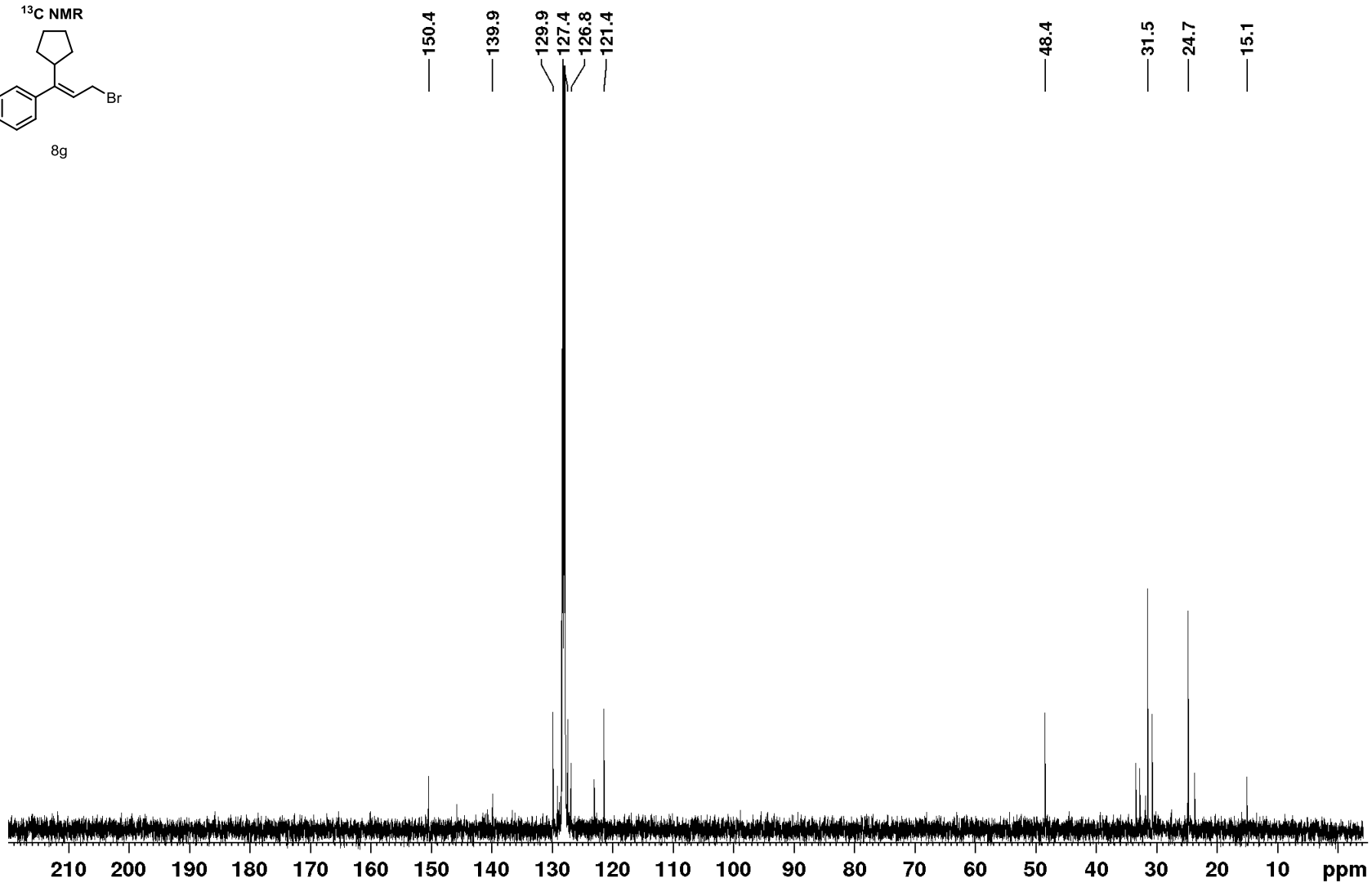
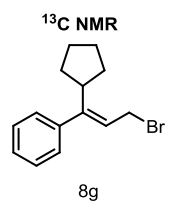


¹H-¹H NOESY

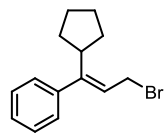


8g

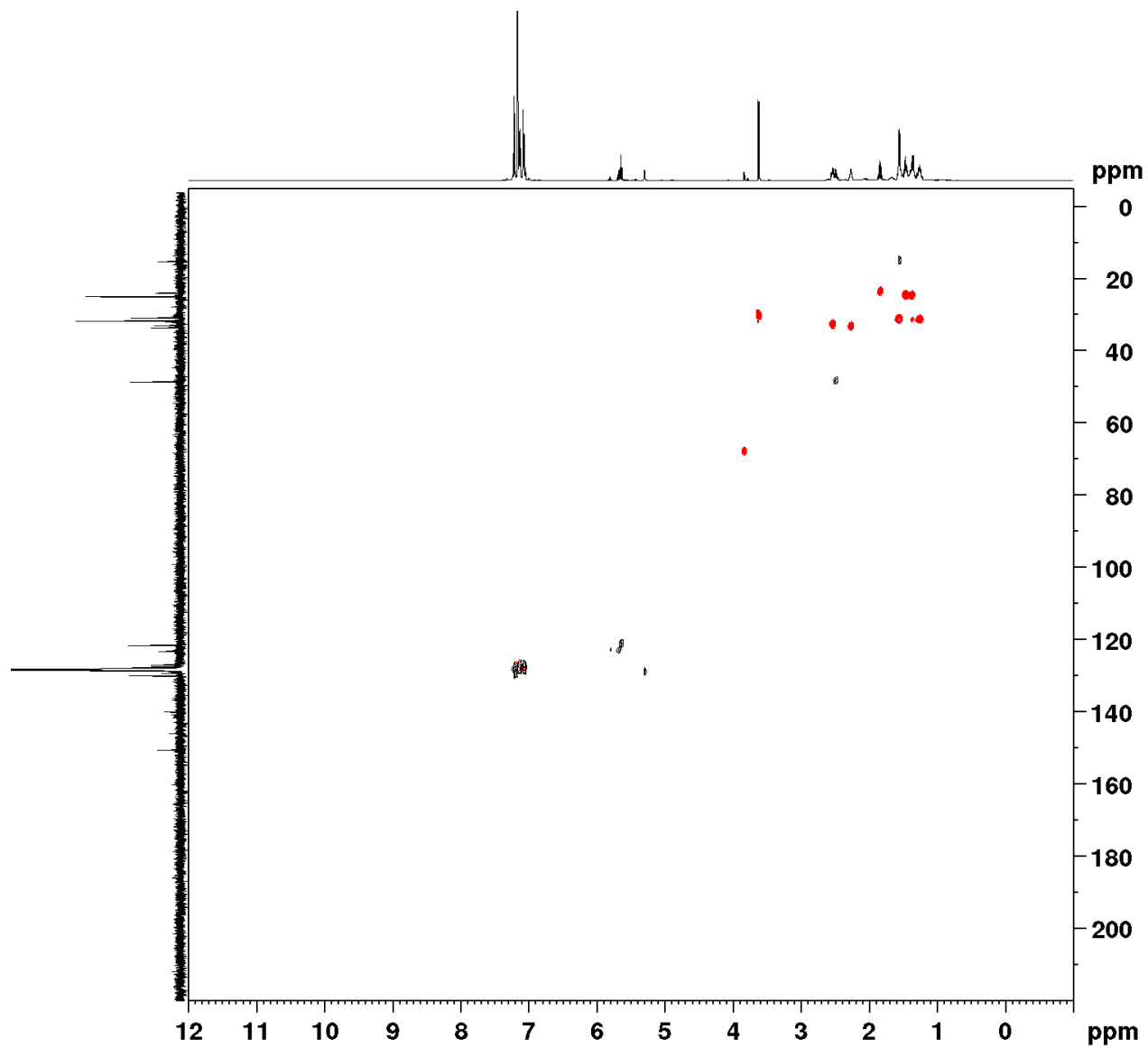




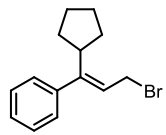
¹H-¹³C HSQC



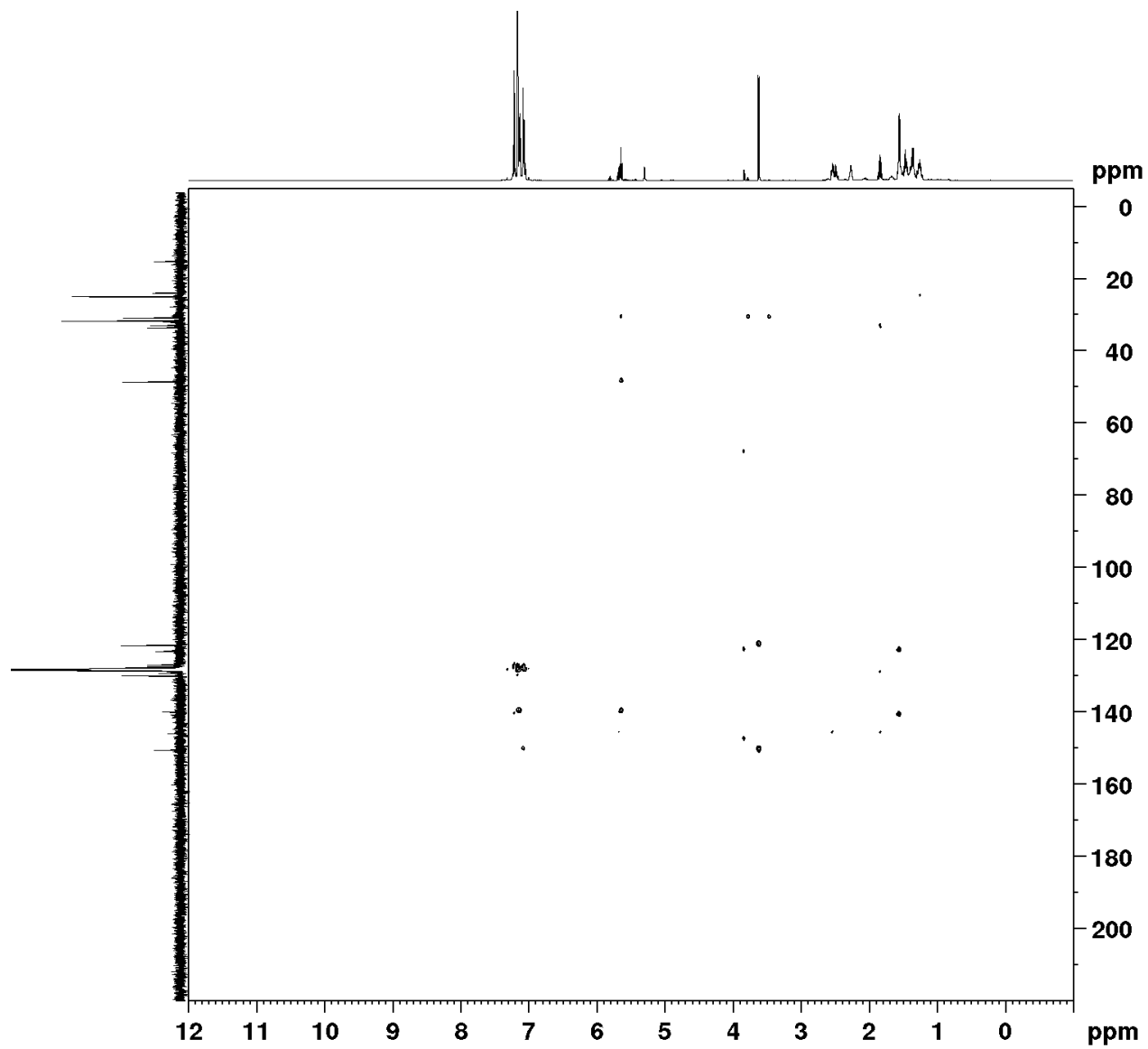
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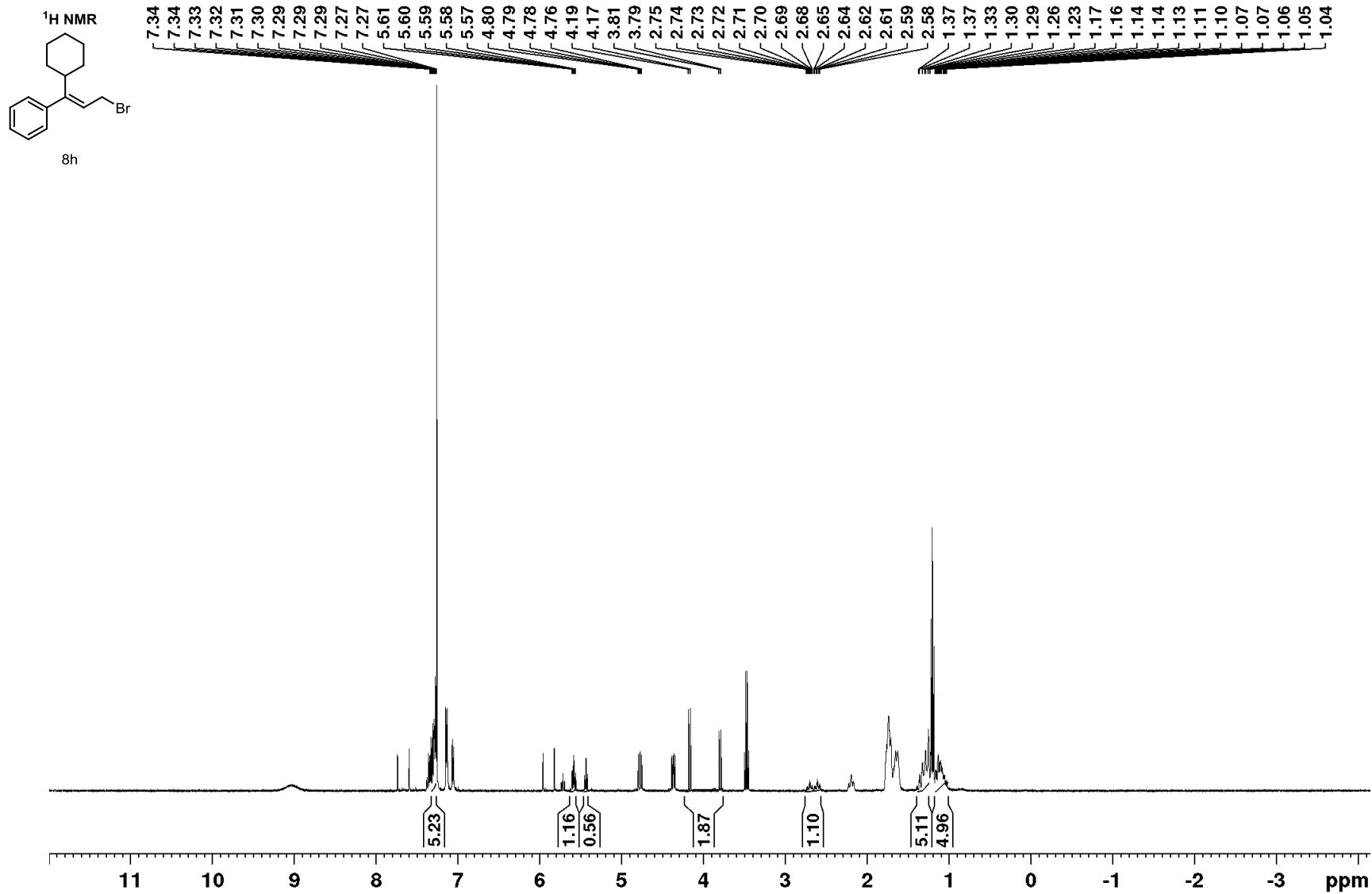


¹H-¹³C HMBC

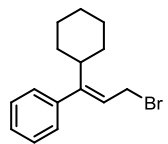


8g

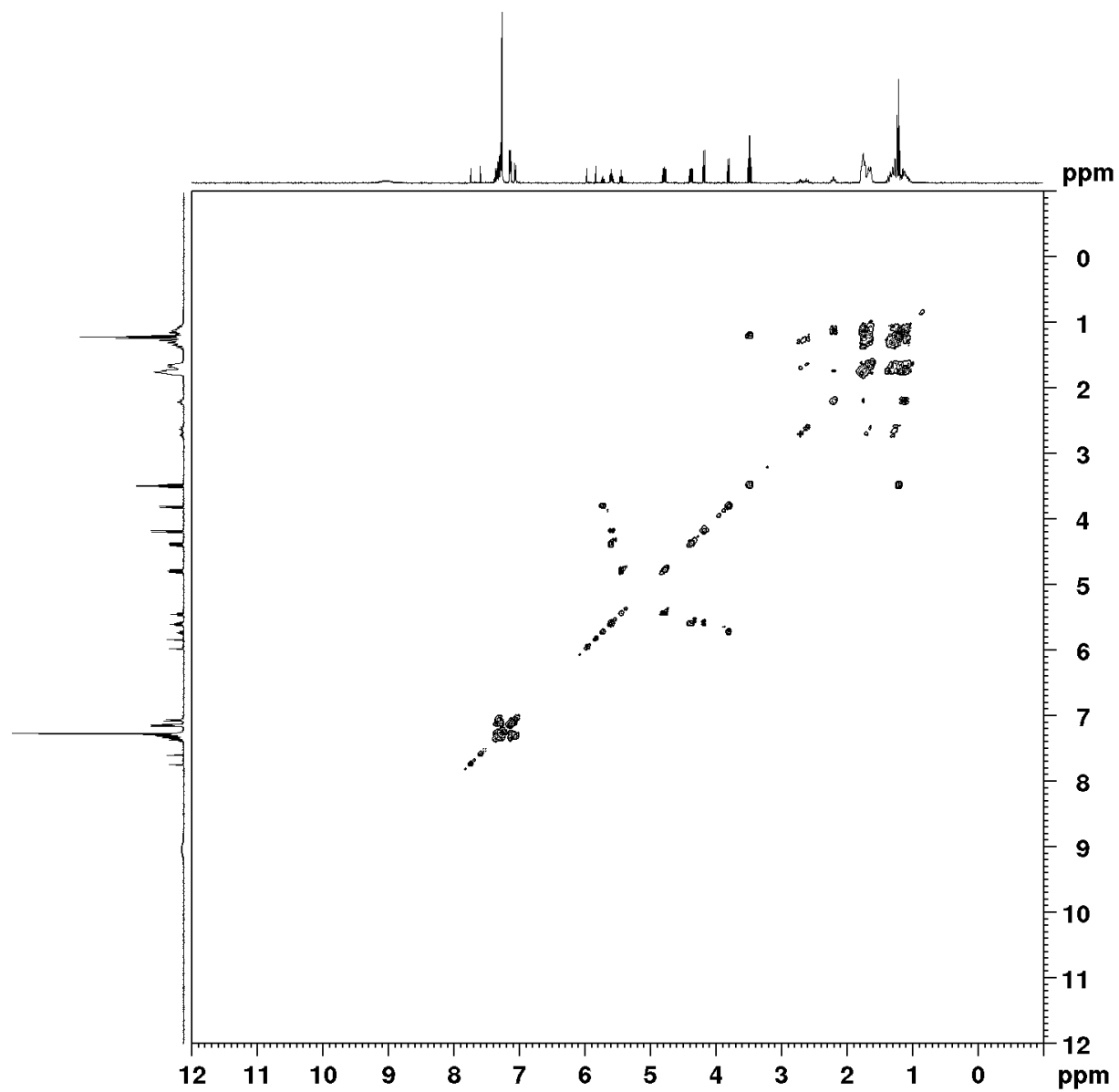




^1H - ^1H COSY

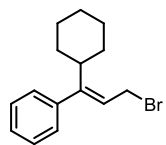


8h

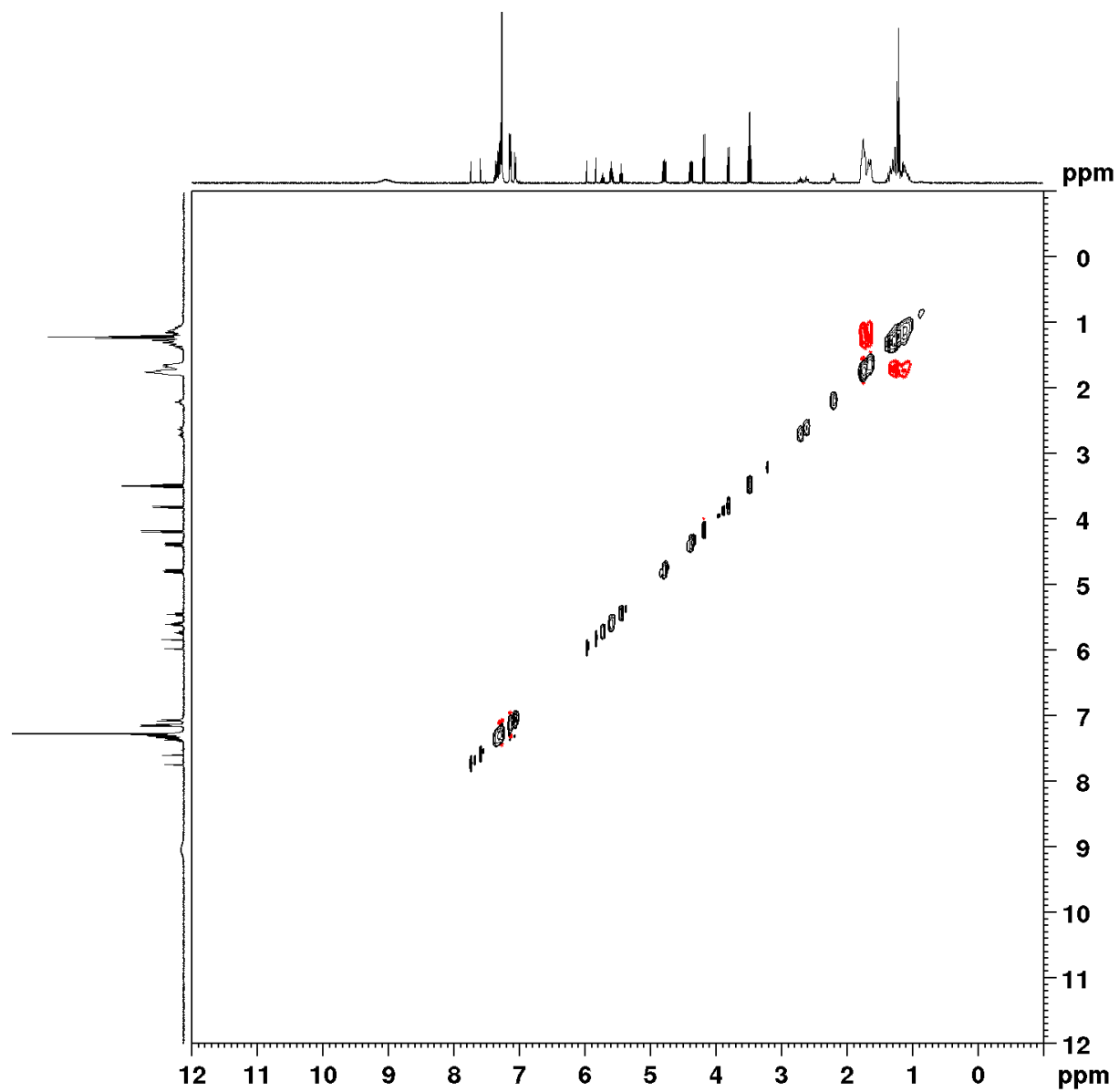


S401

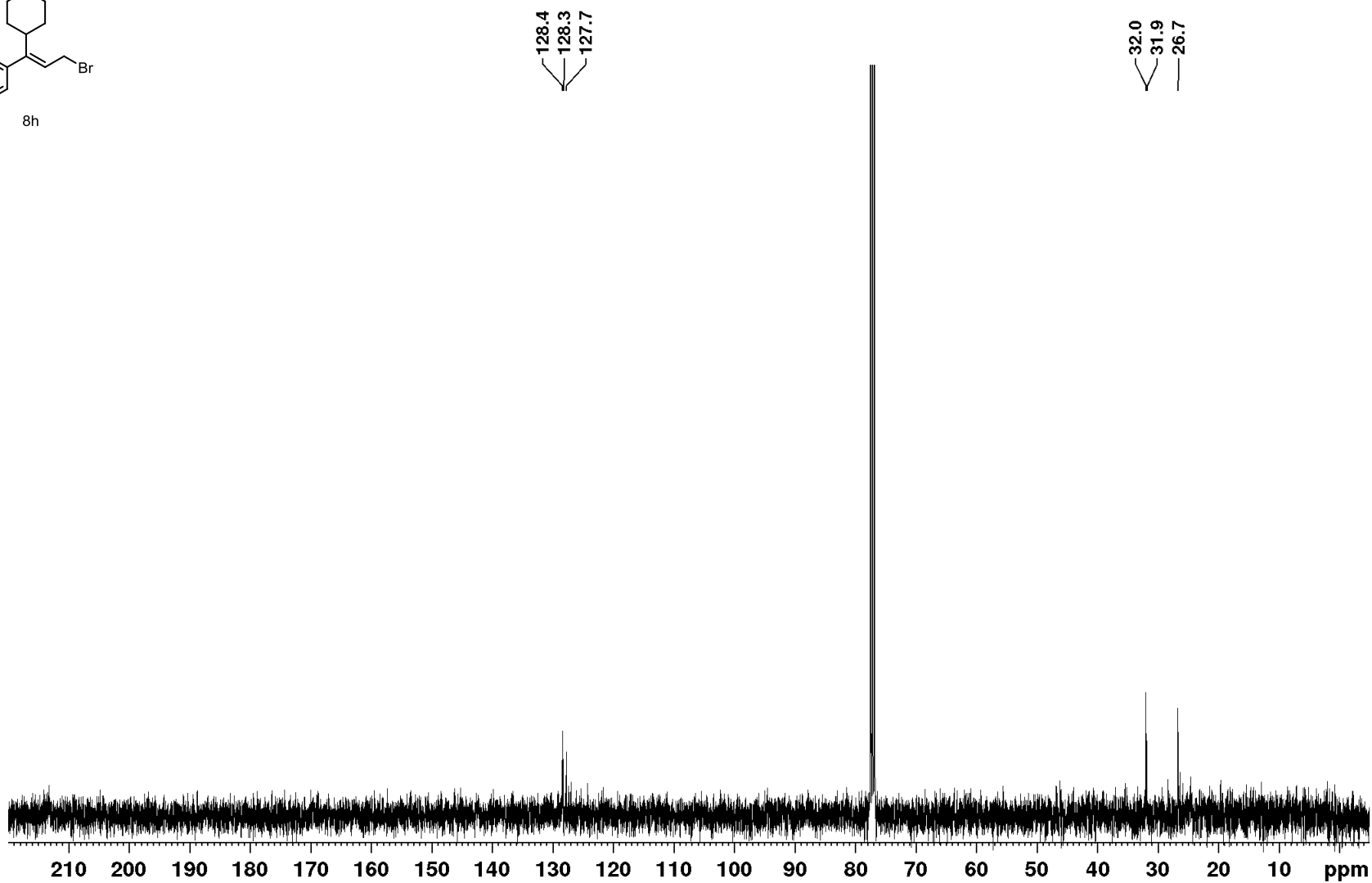
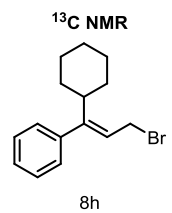
¹H-¹H NOESY



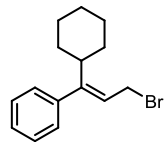
8h



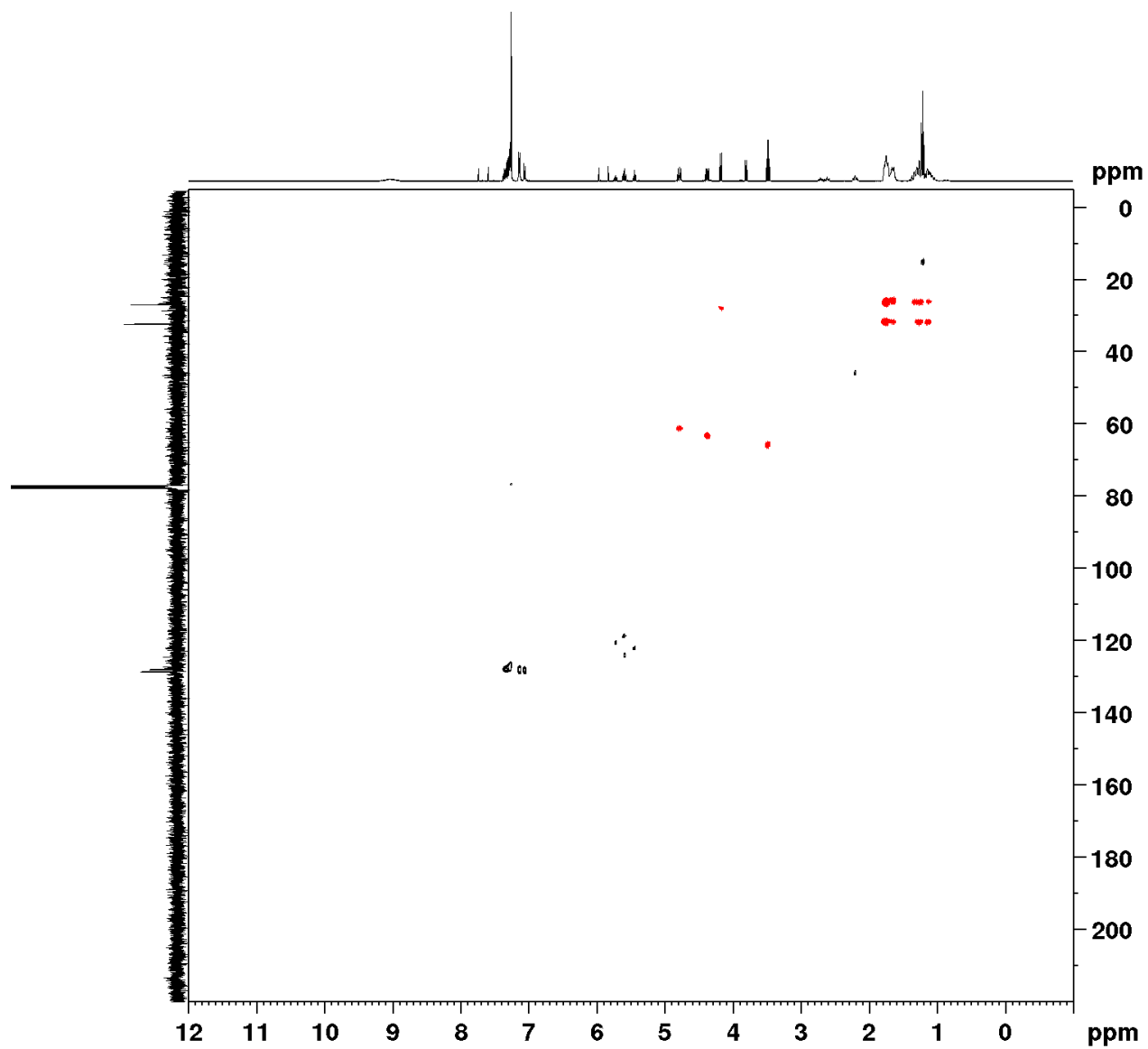
S402



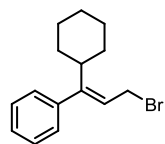
¹H-¹³C HSQC



8h



¹H-¹³C HMBC



8h

