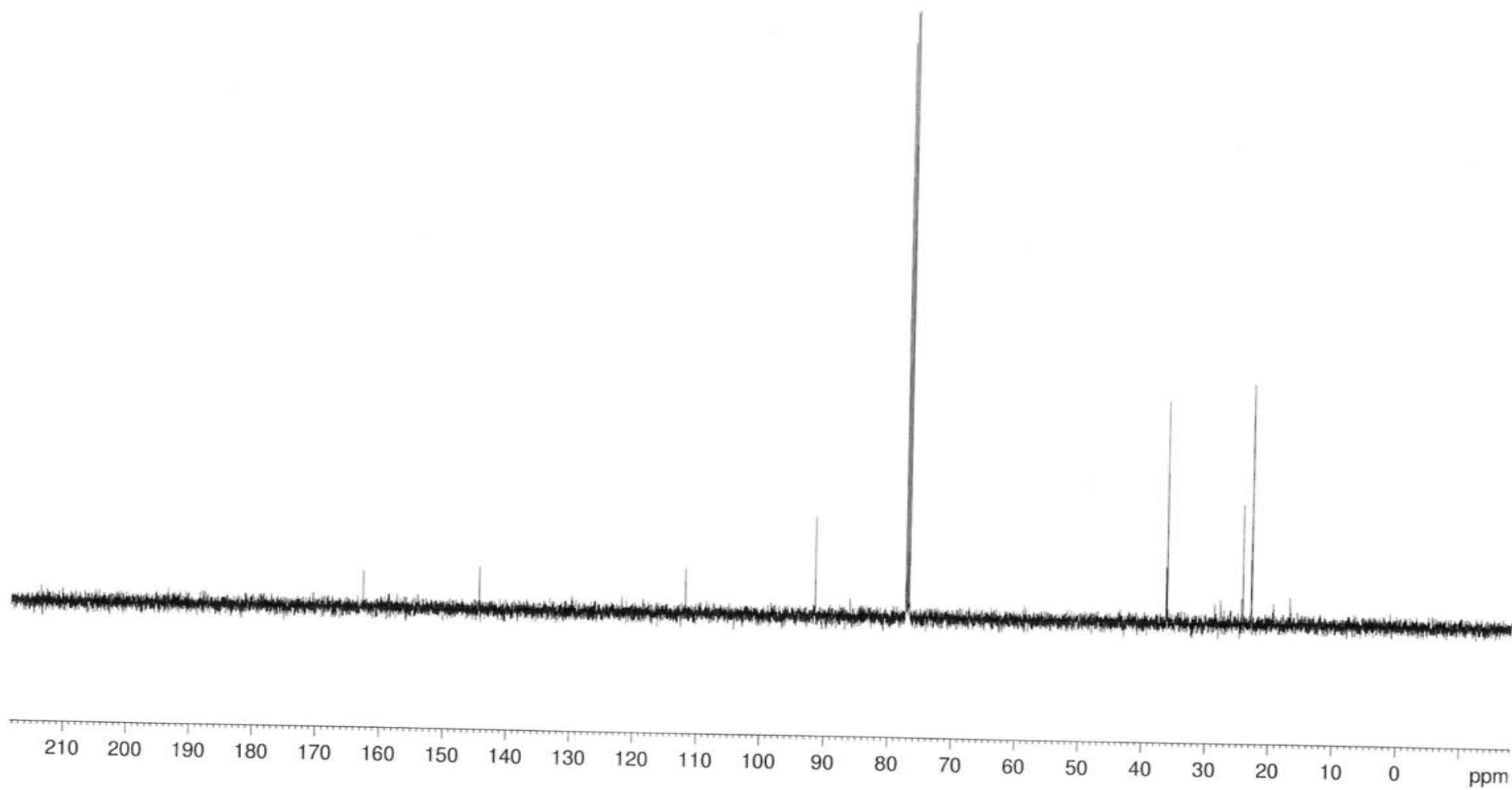
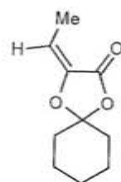
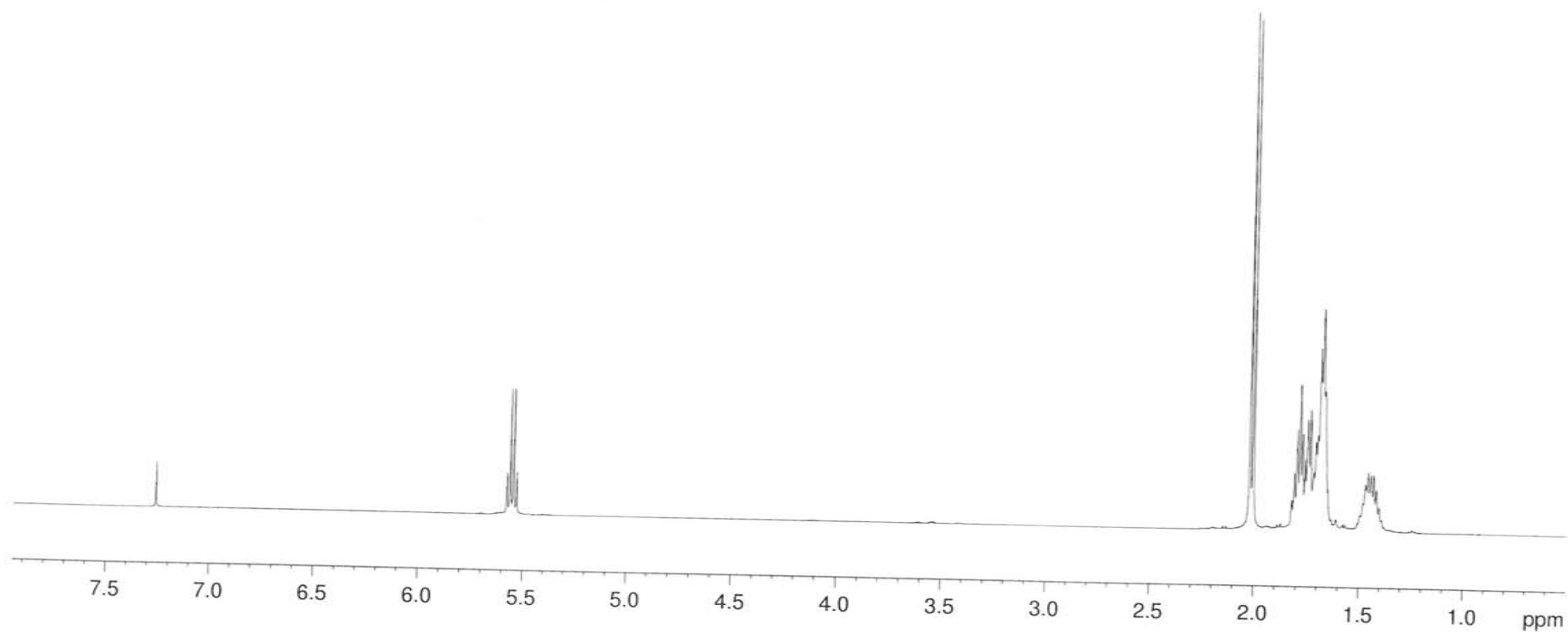


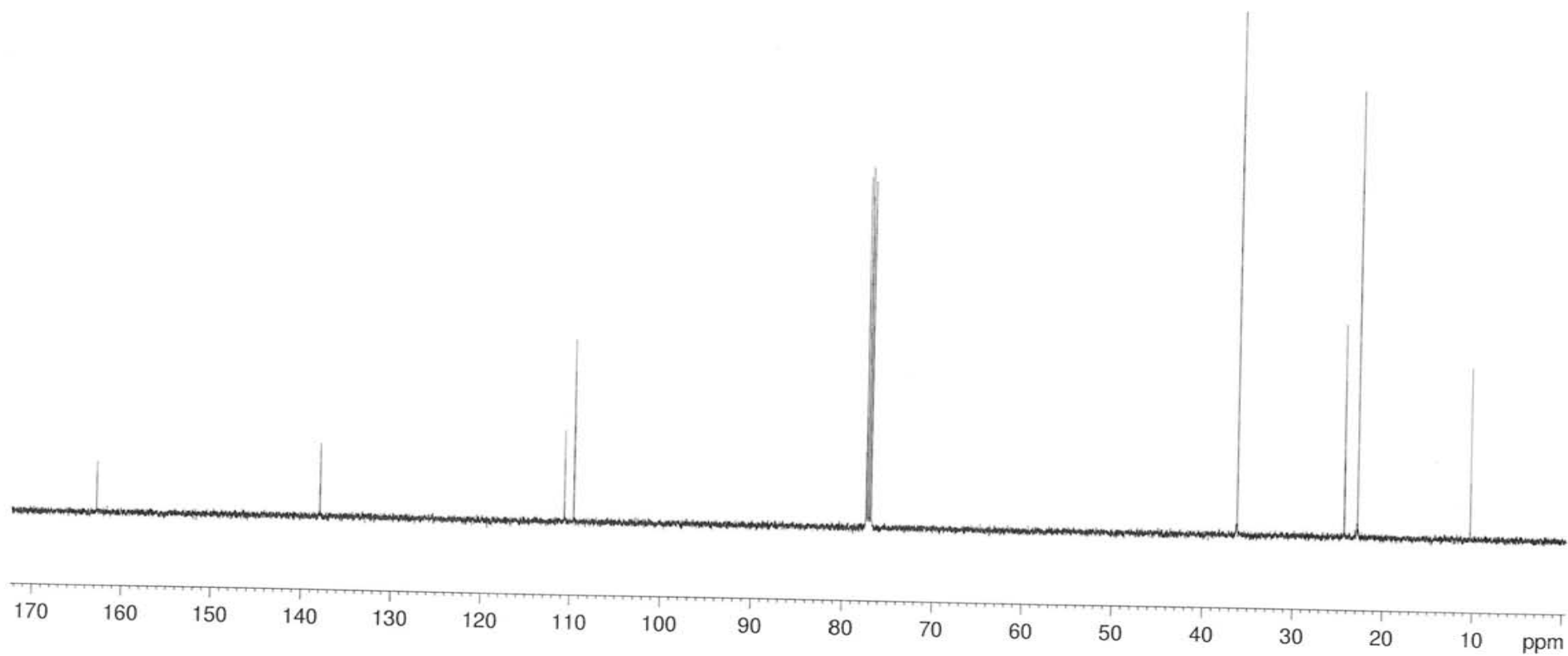
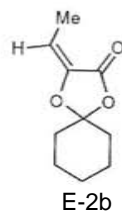
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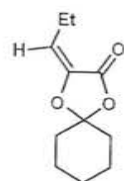




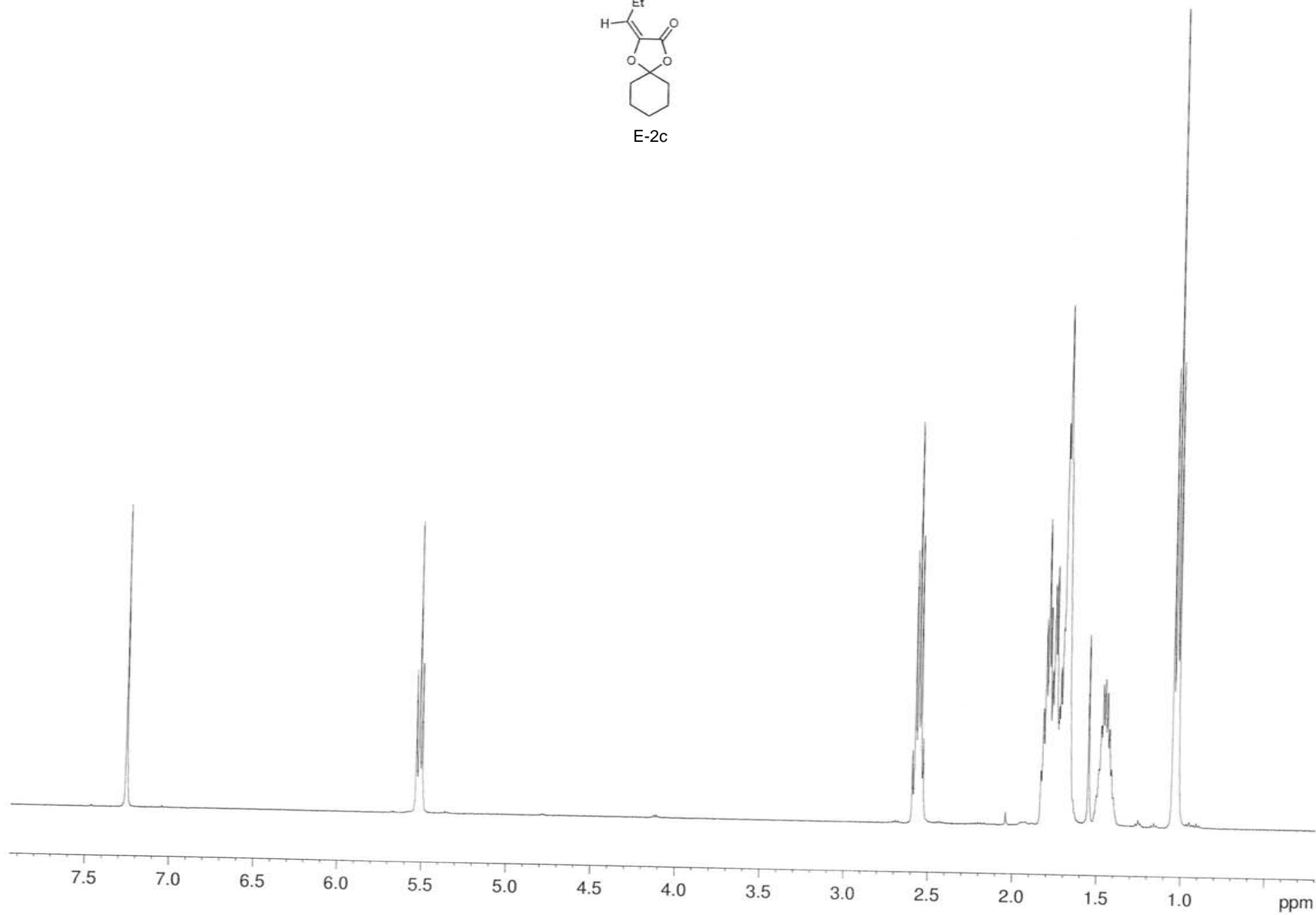
E-2b

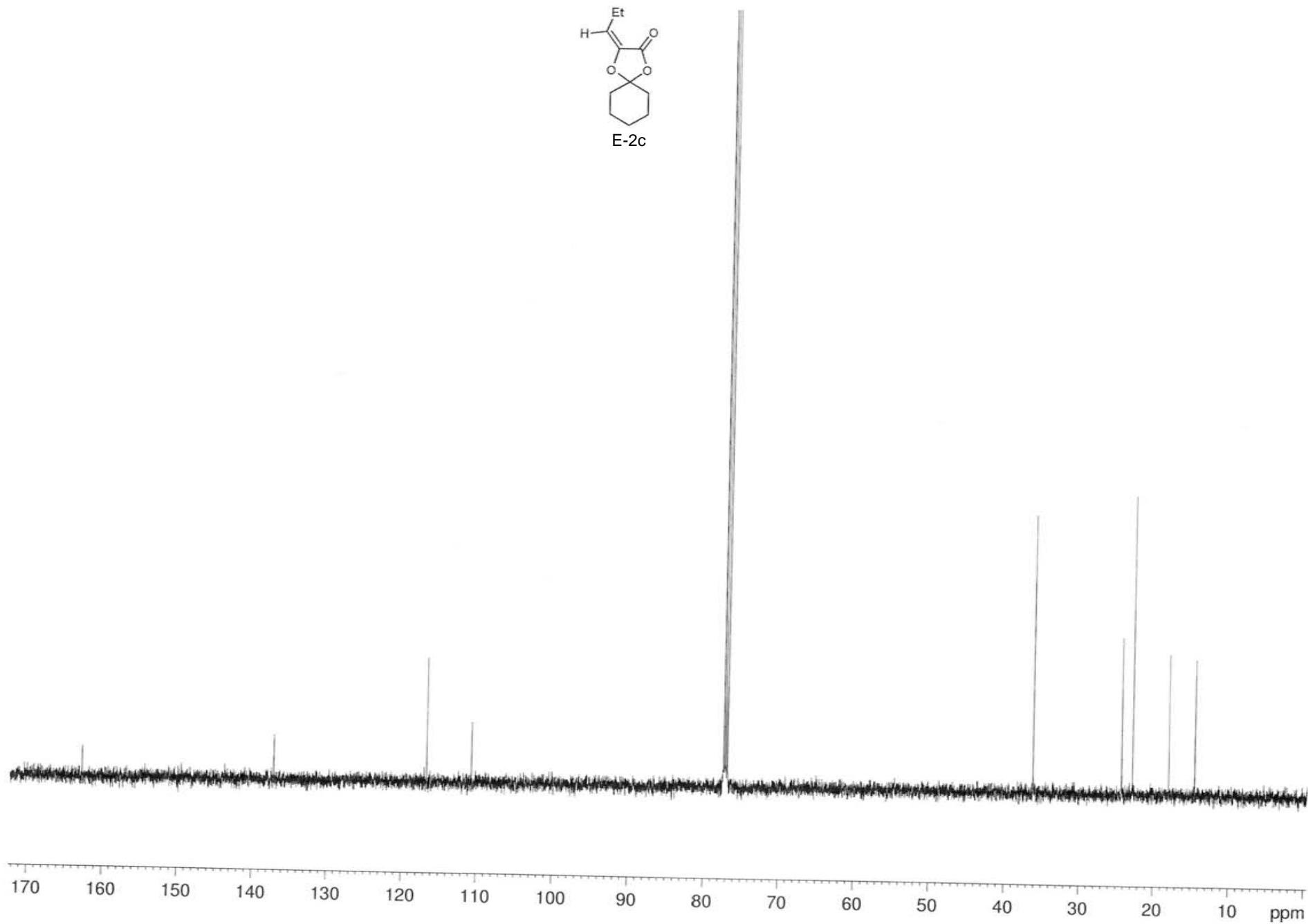
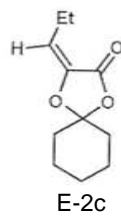


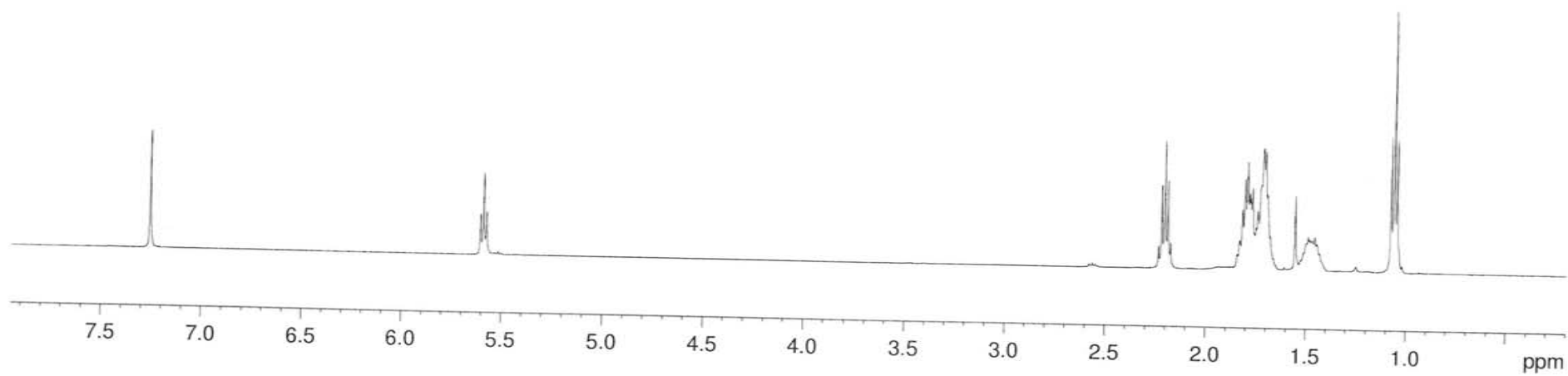
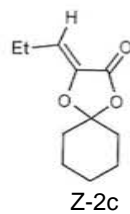


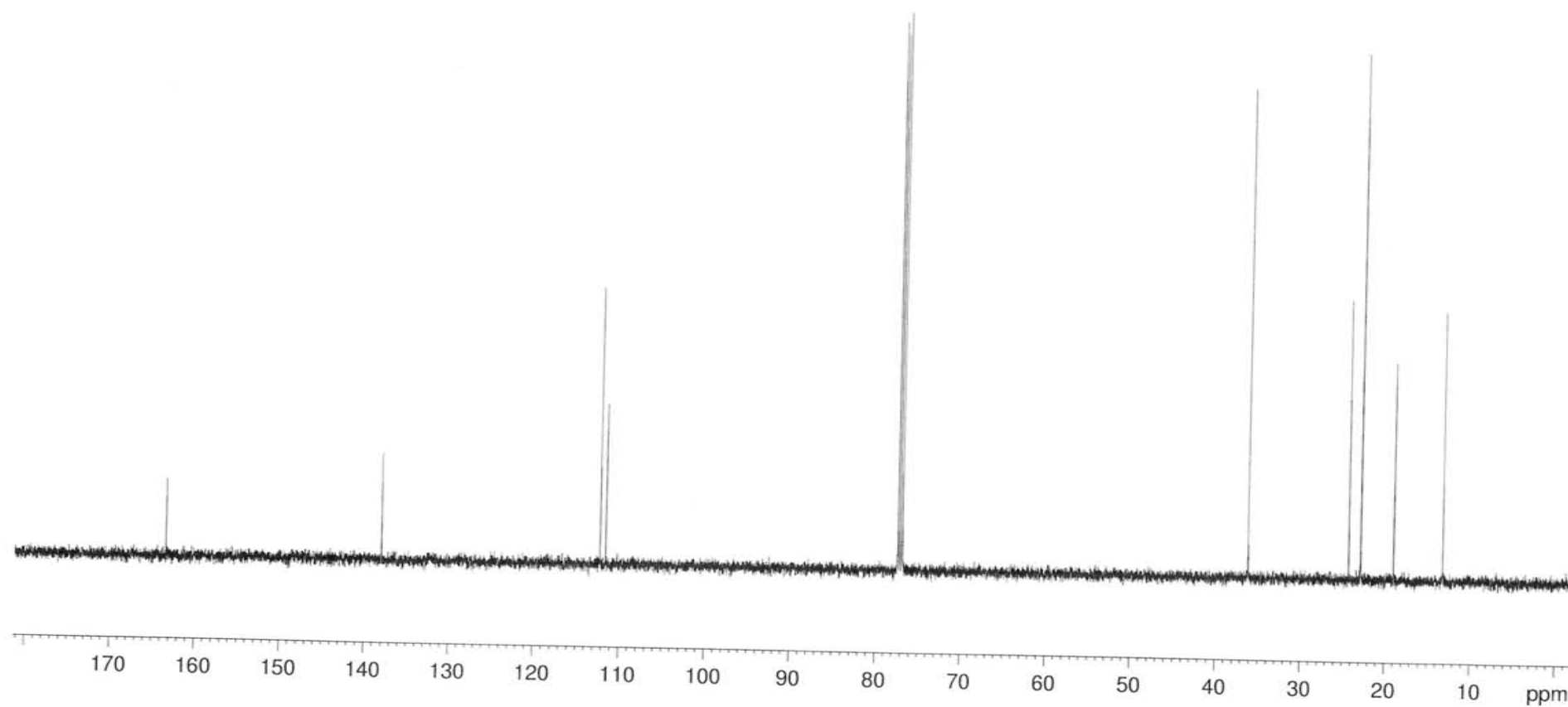
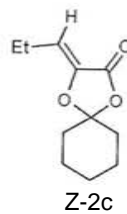


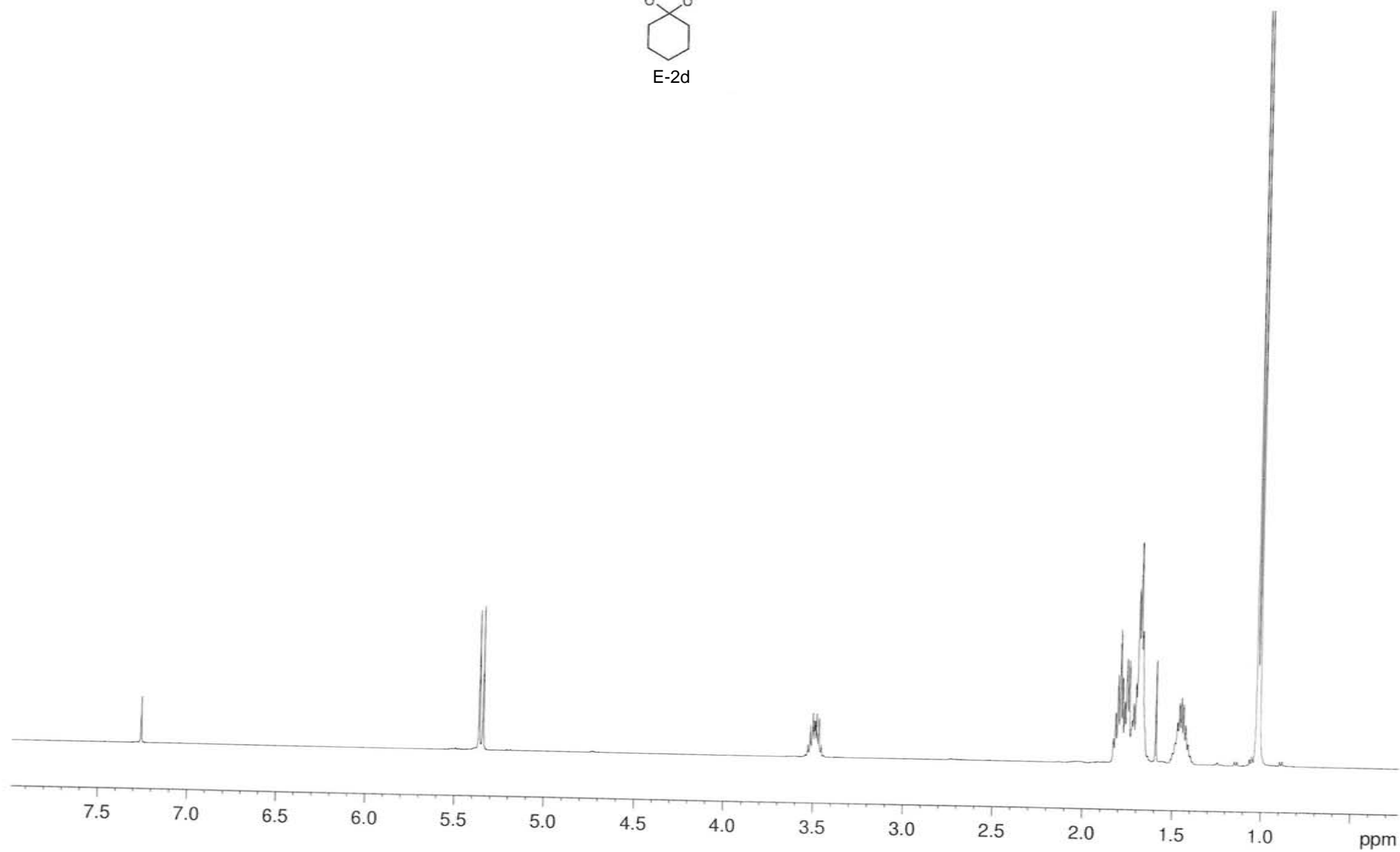
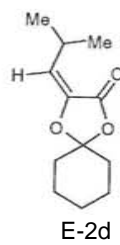
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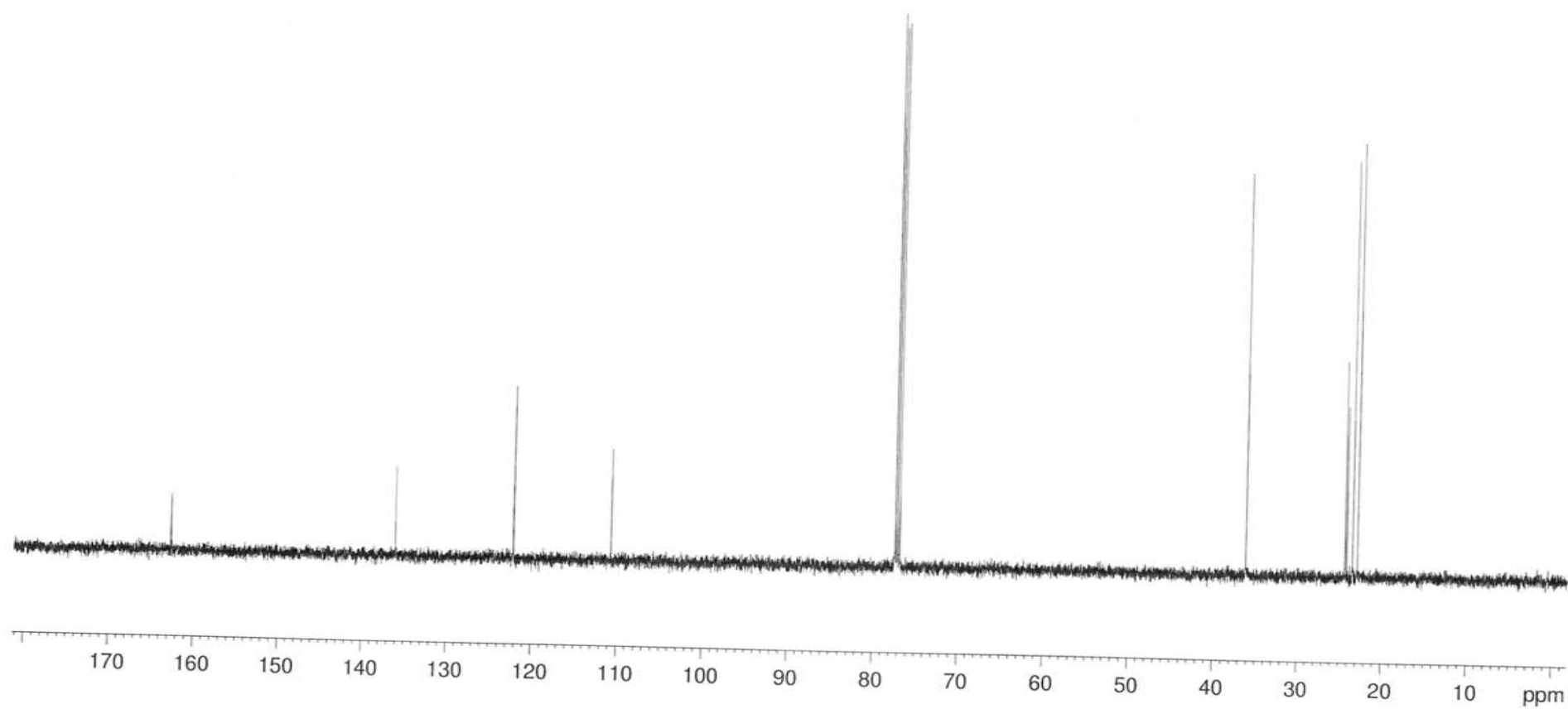
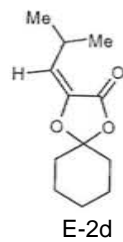


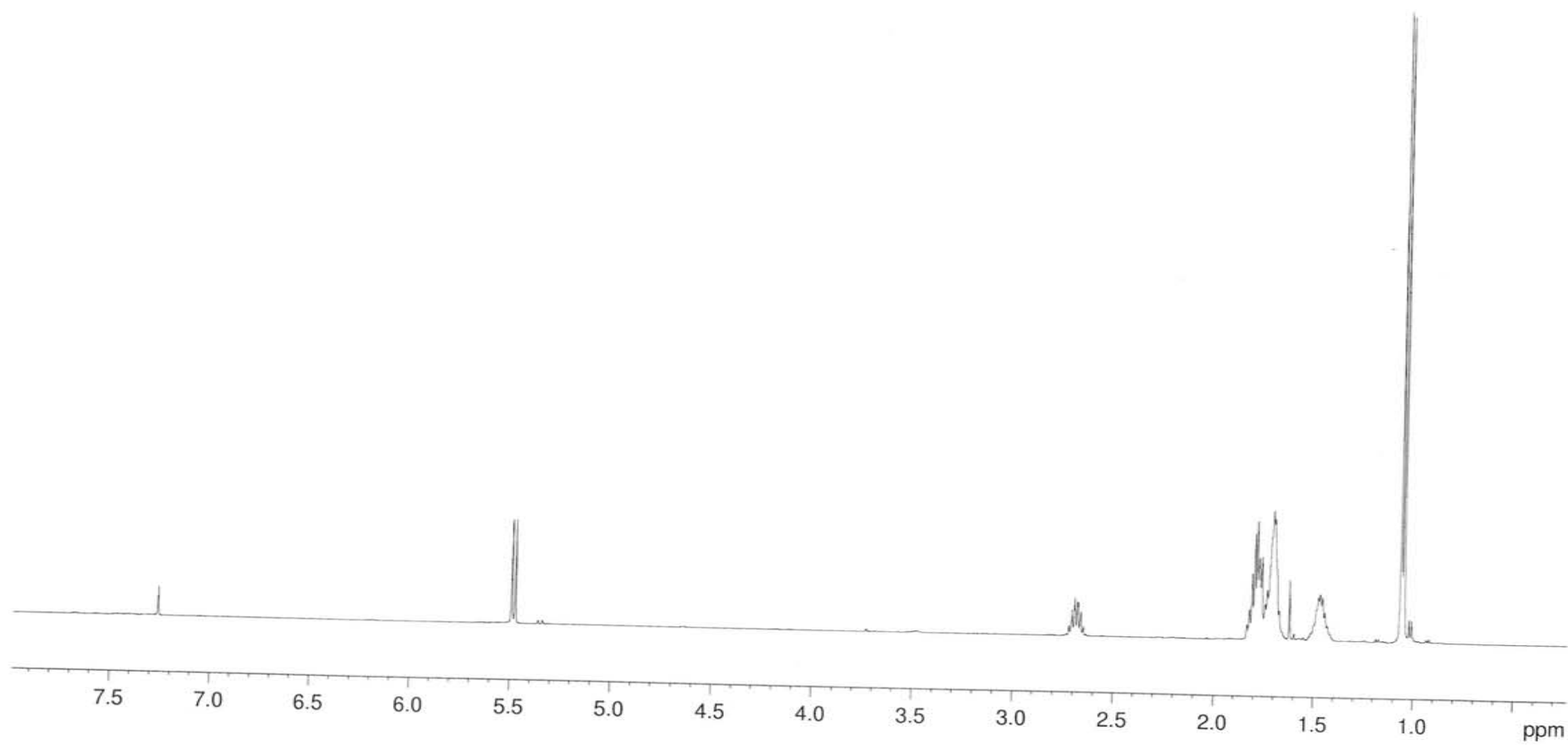
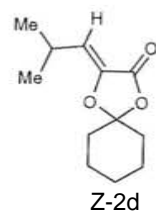


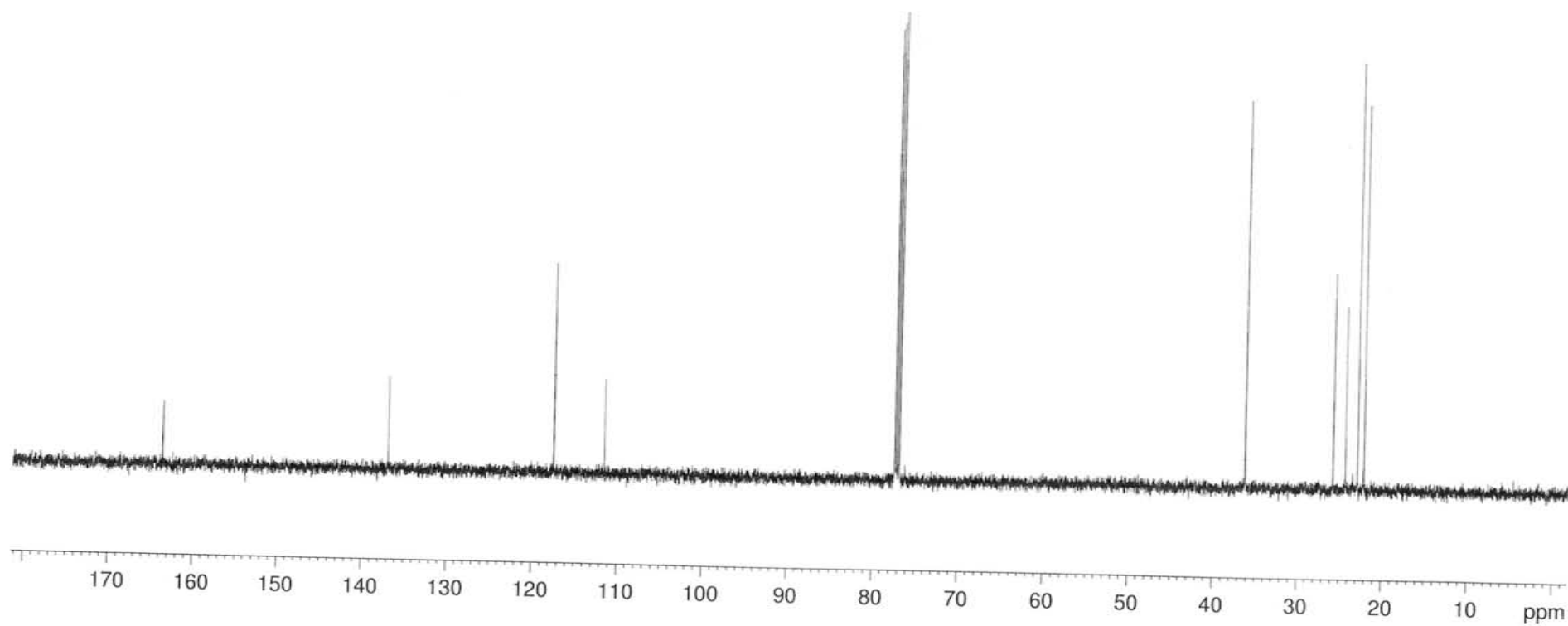
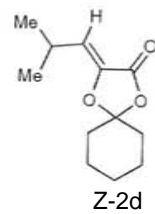


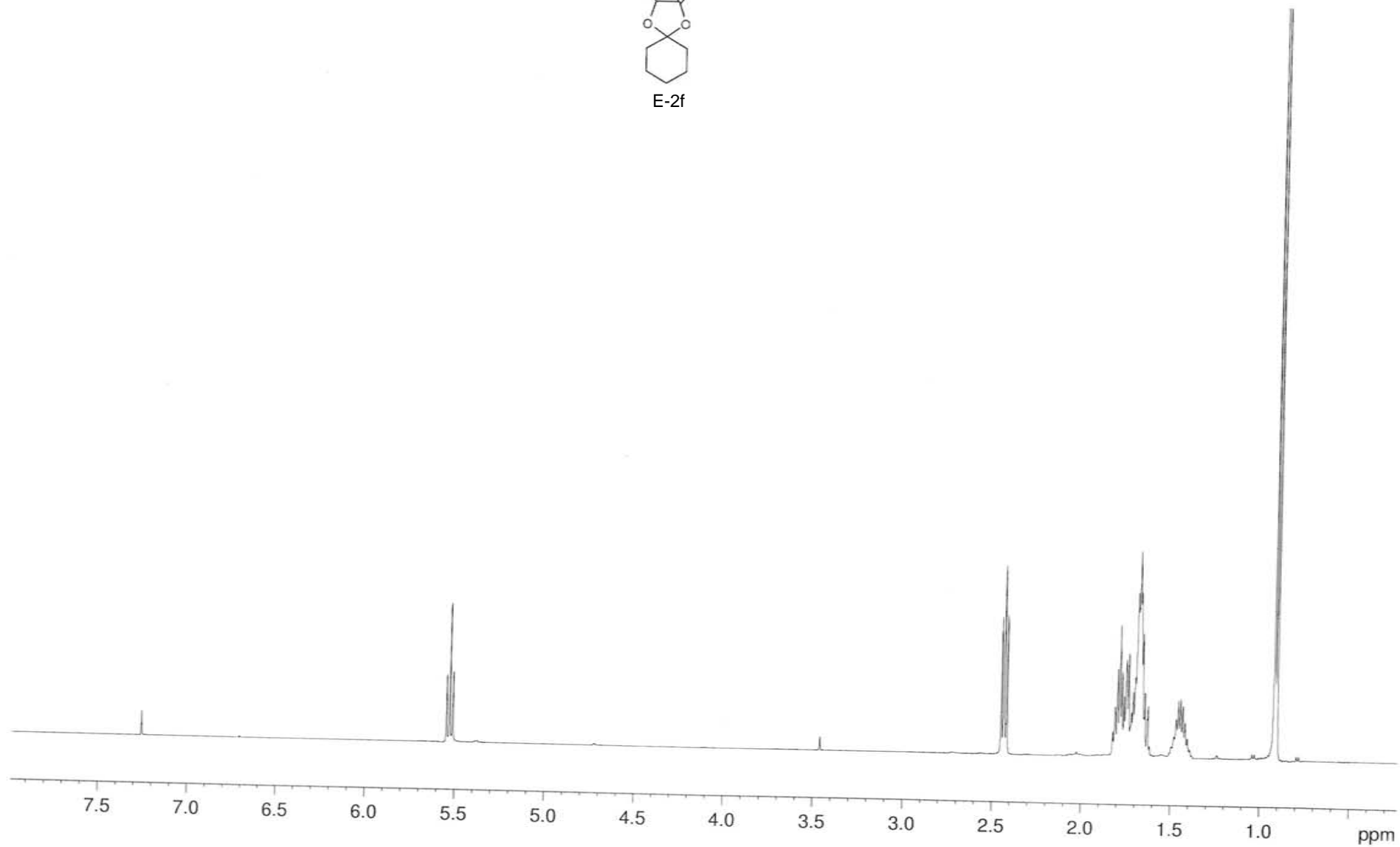
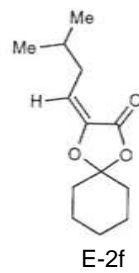


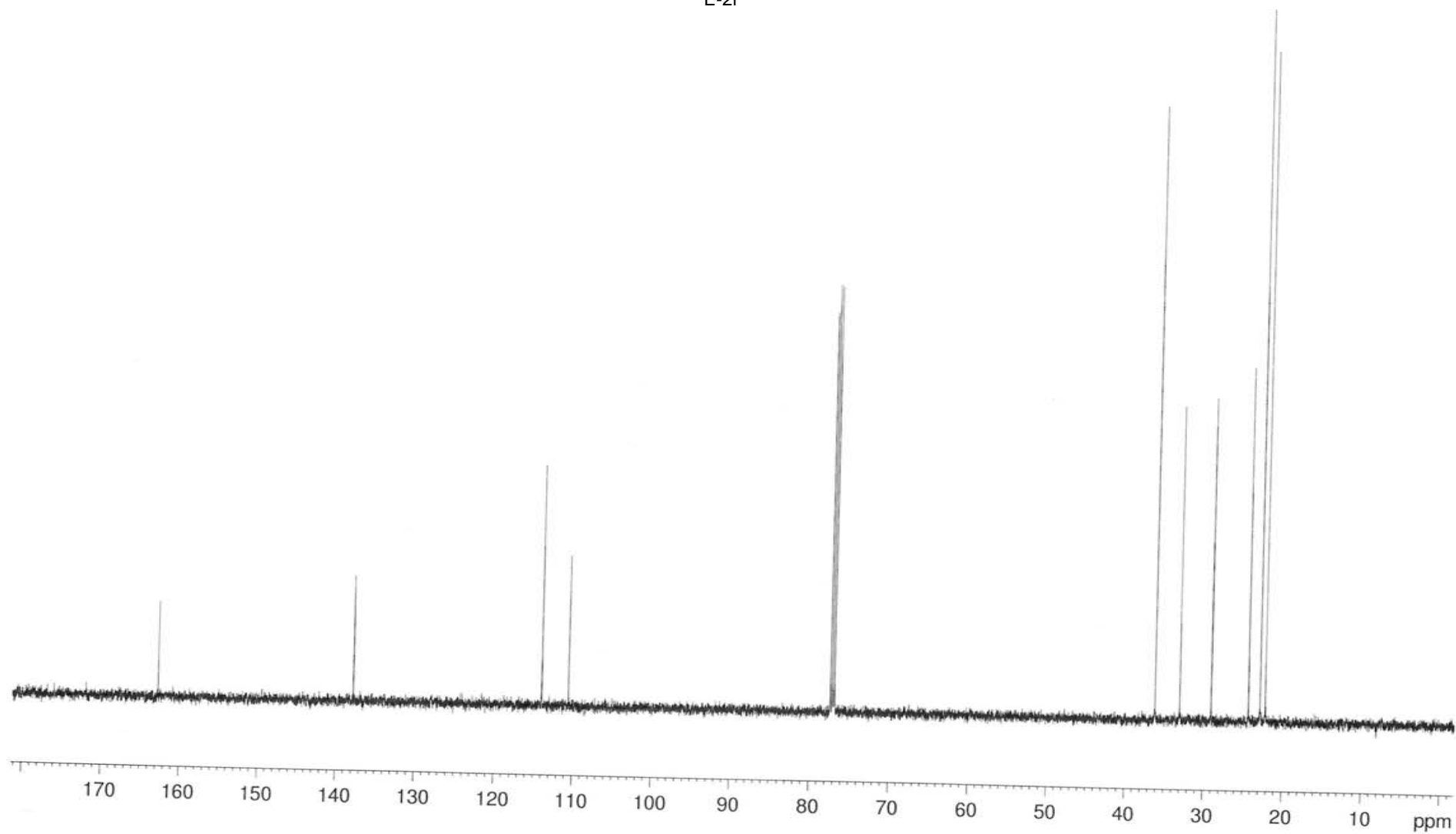
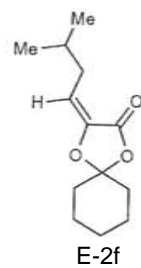


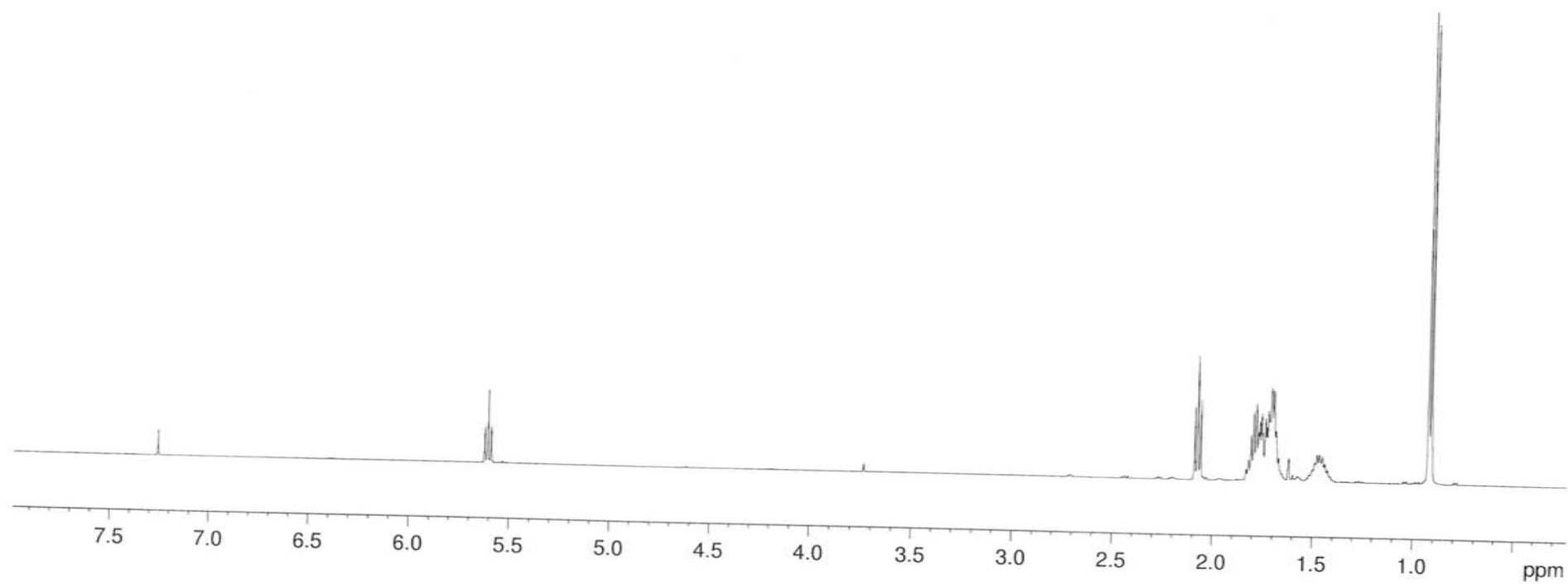
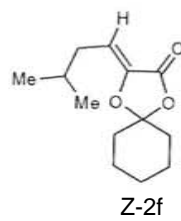


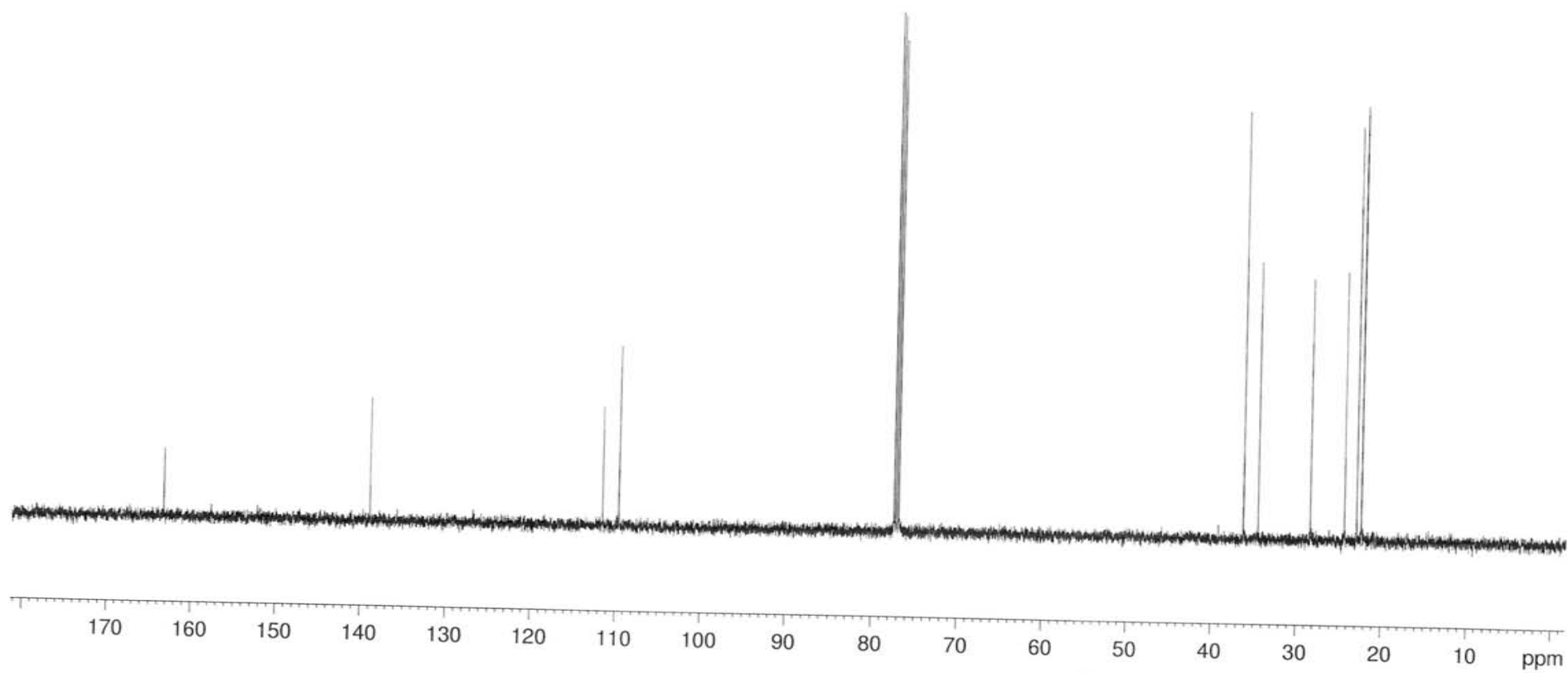
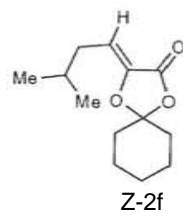


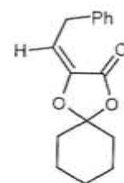




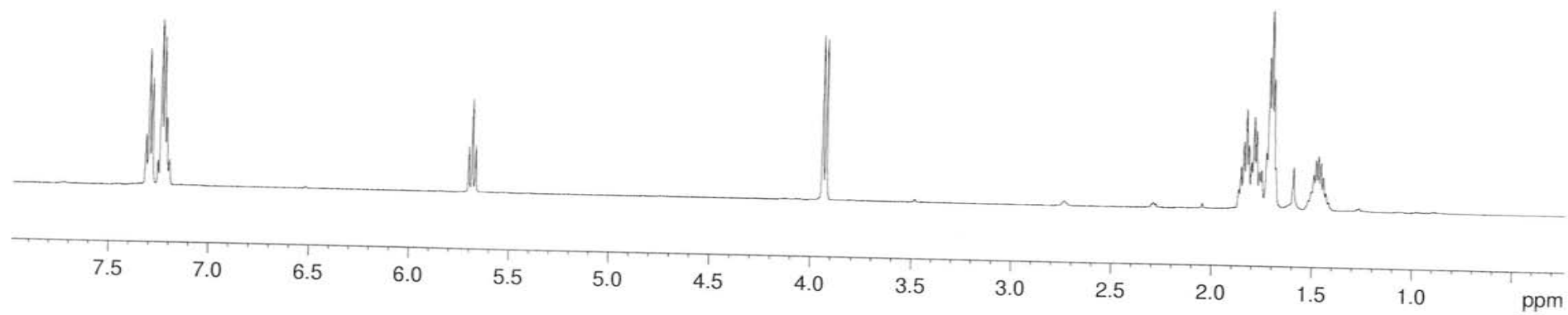


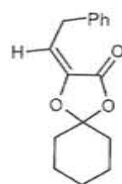




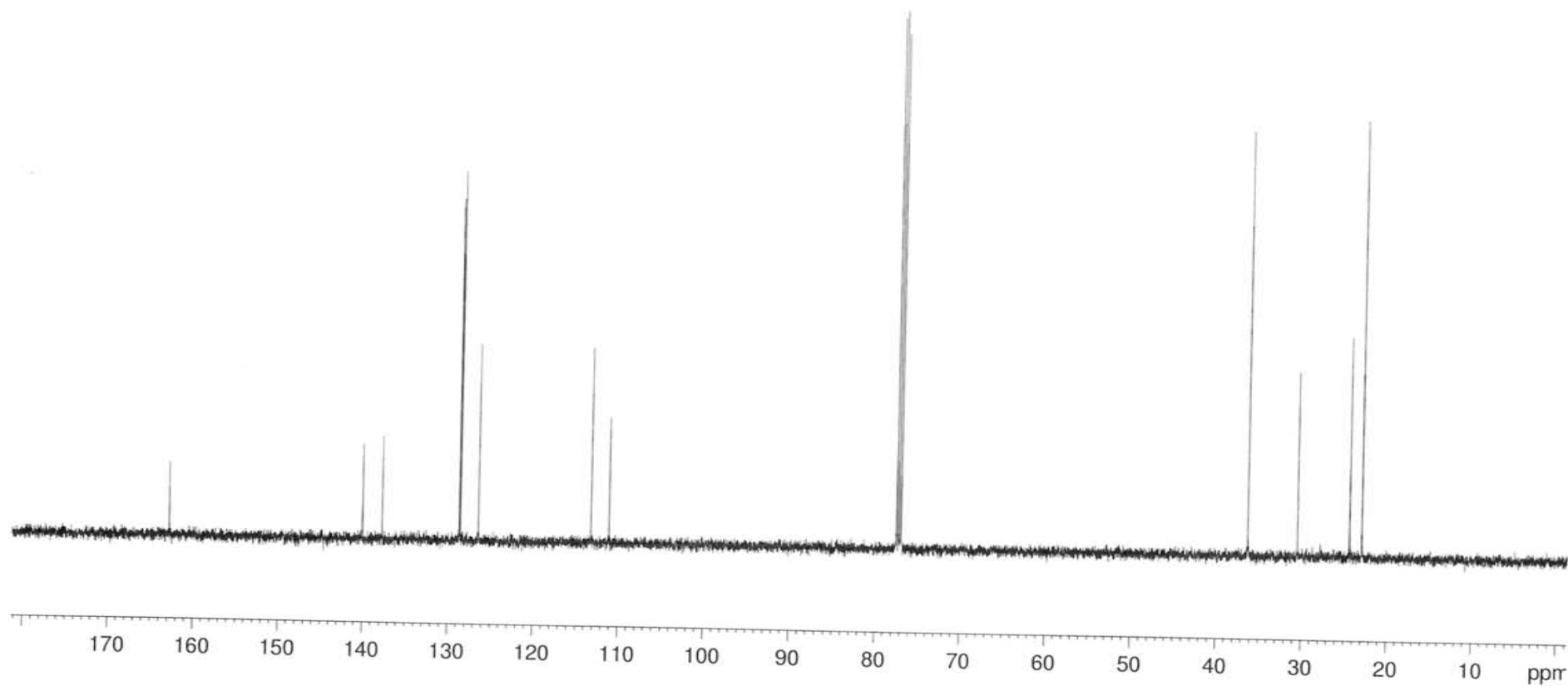


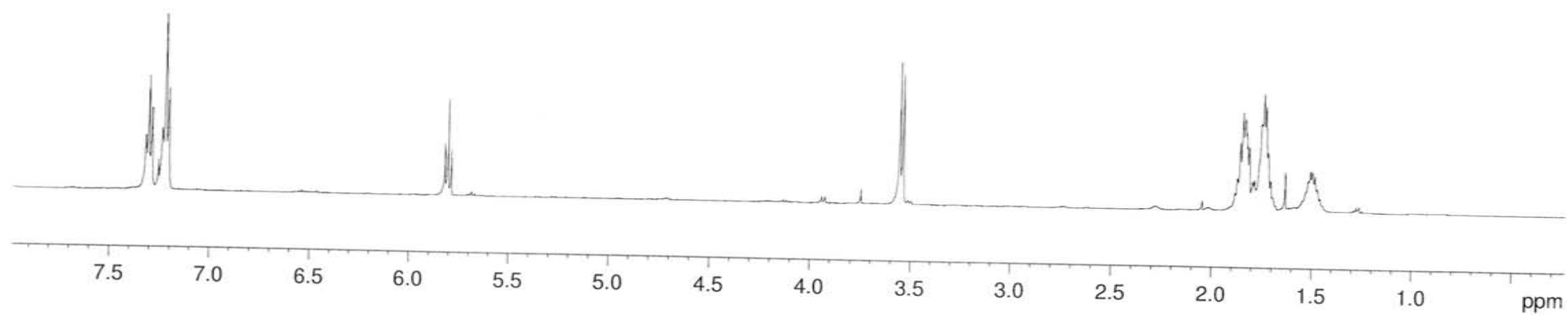
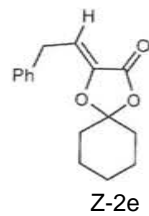
E-2e

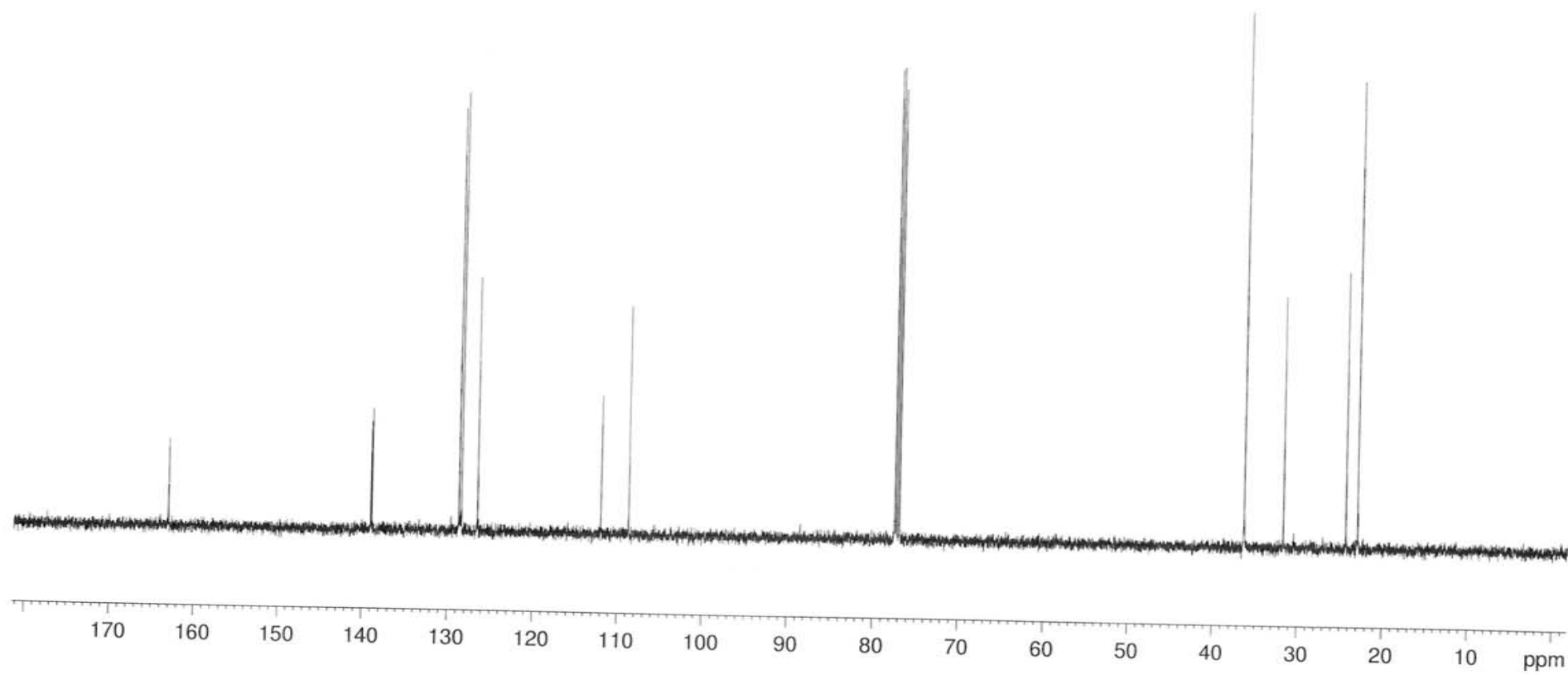
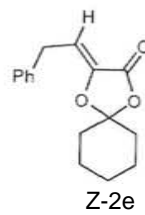


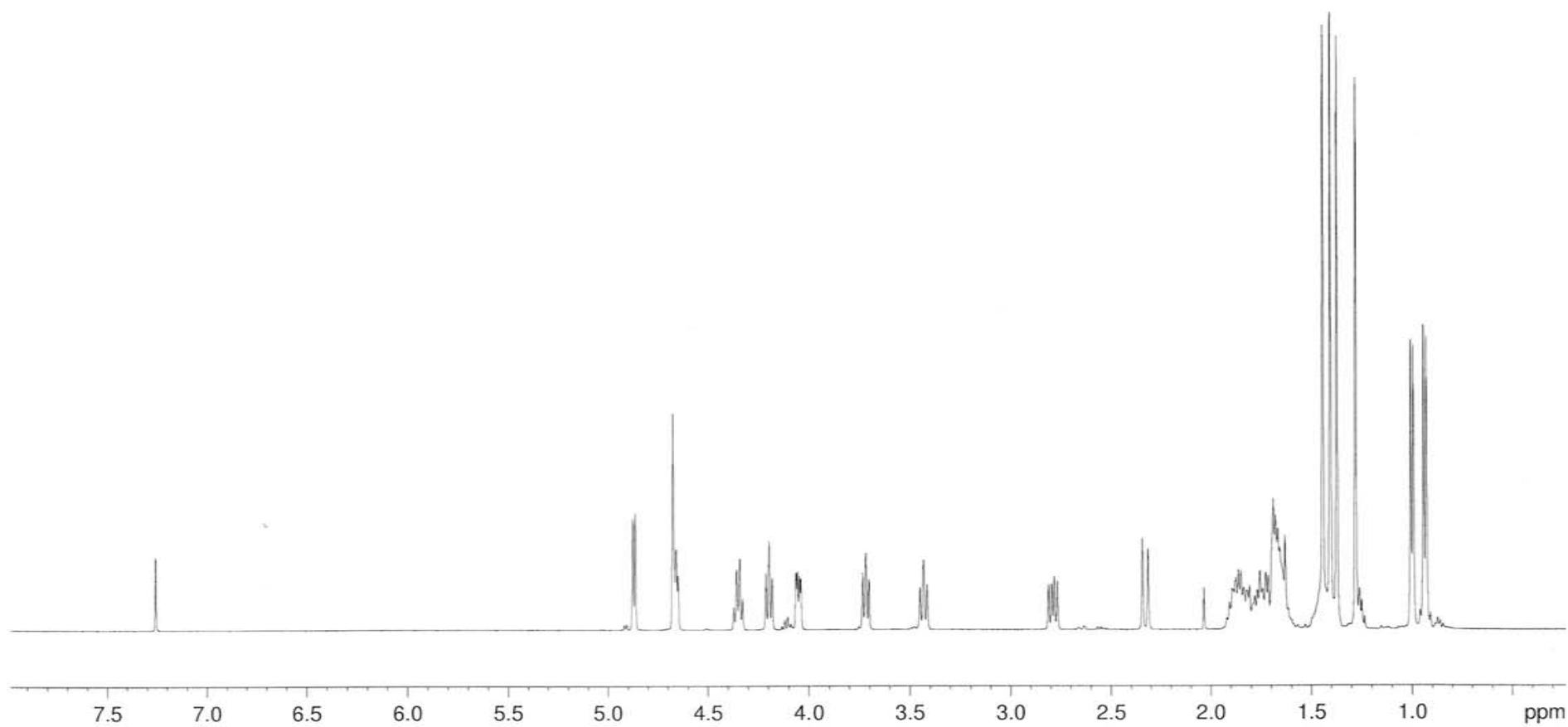
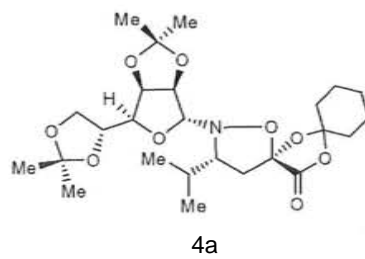


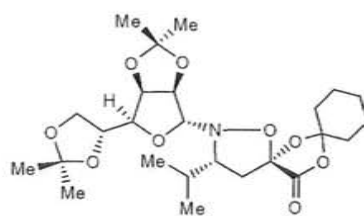
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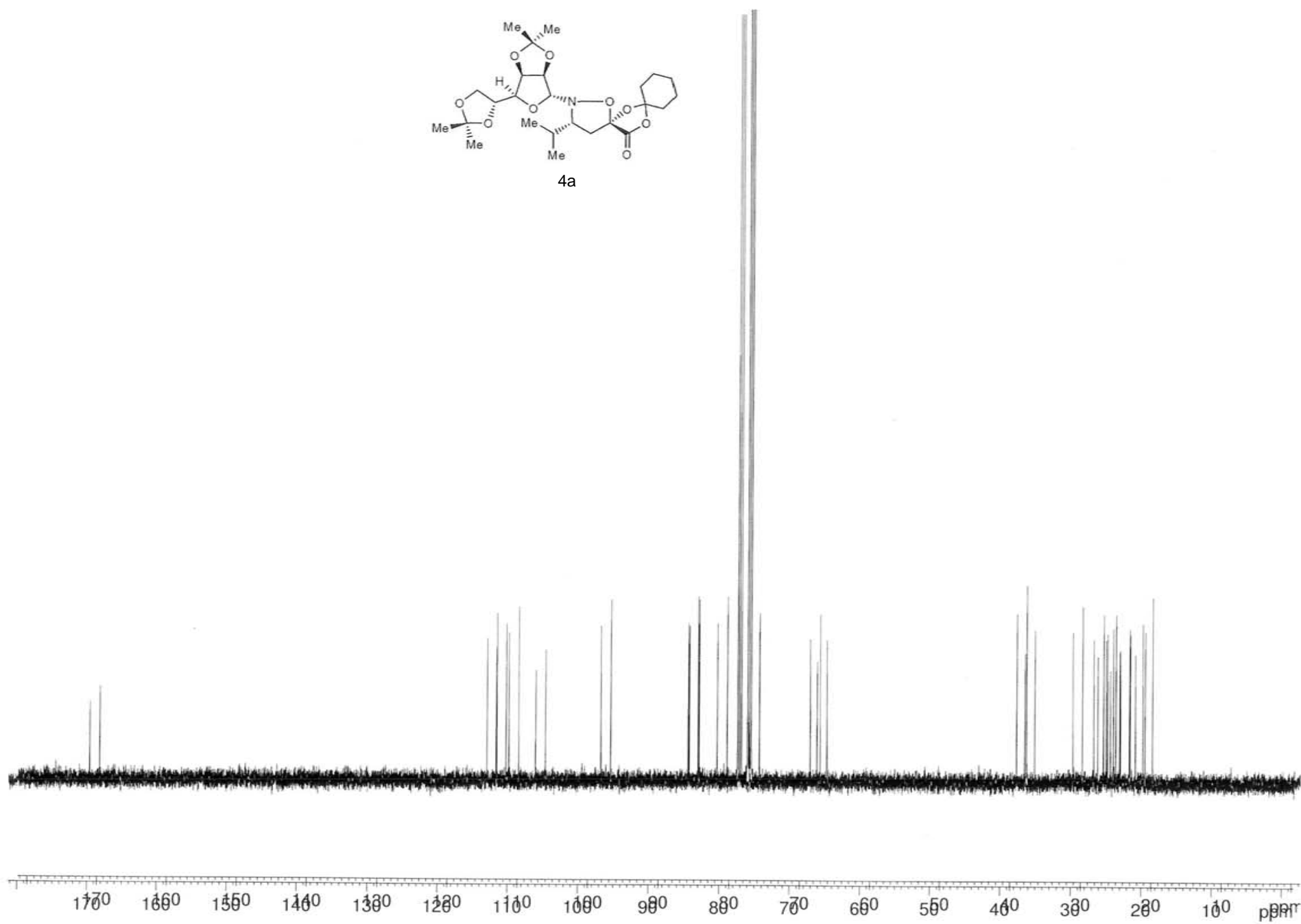


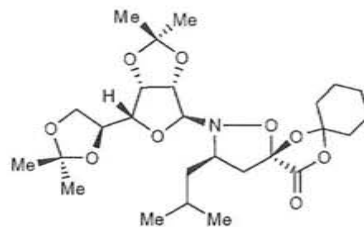




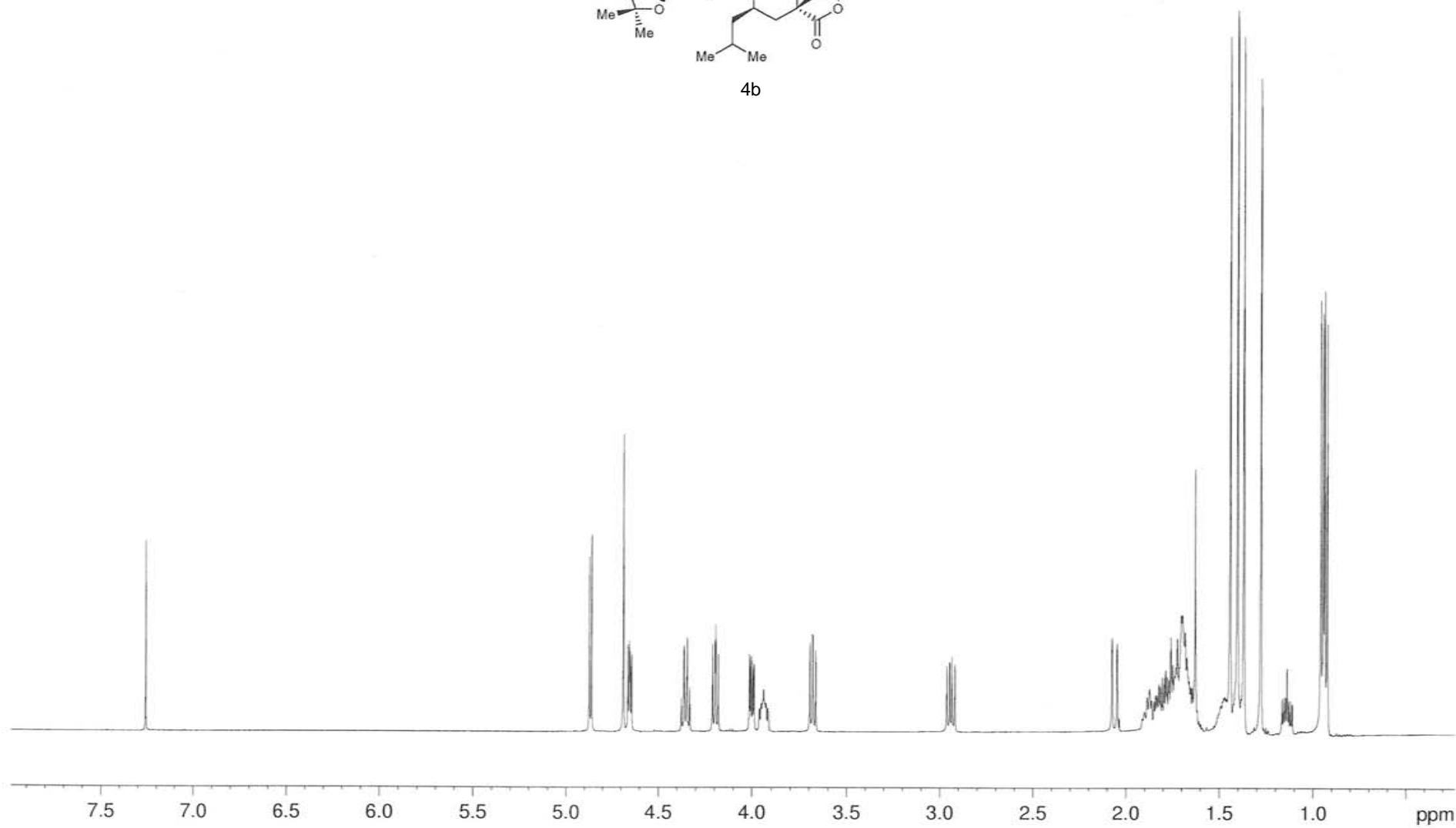


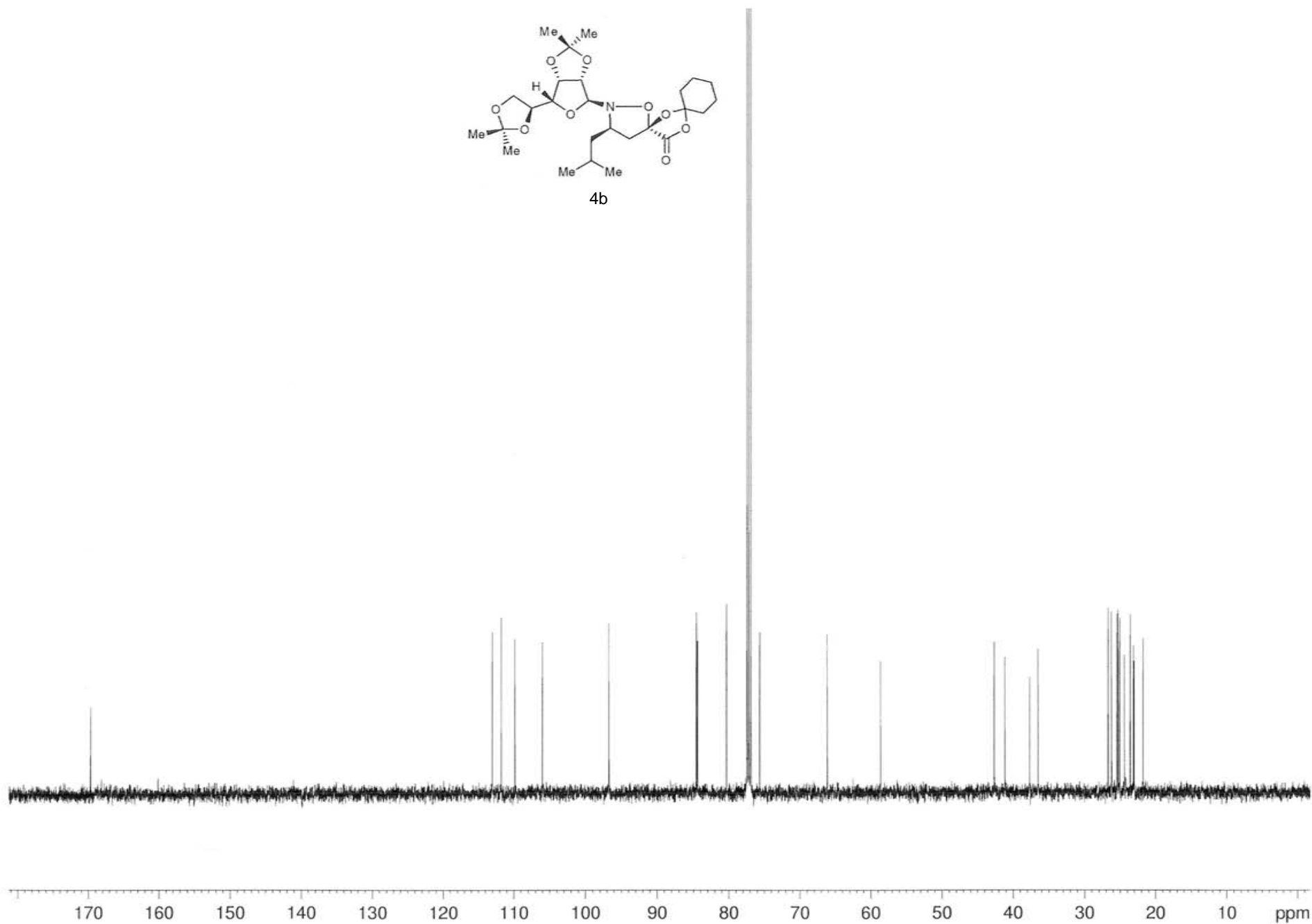
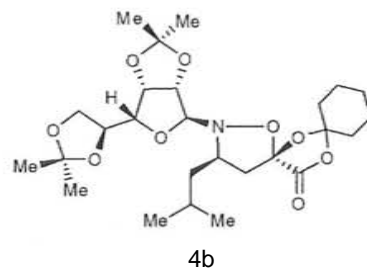
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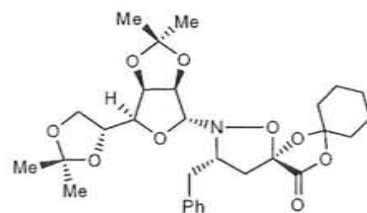




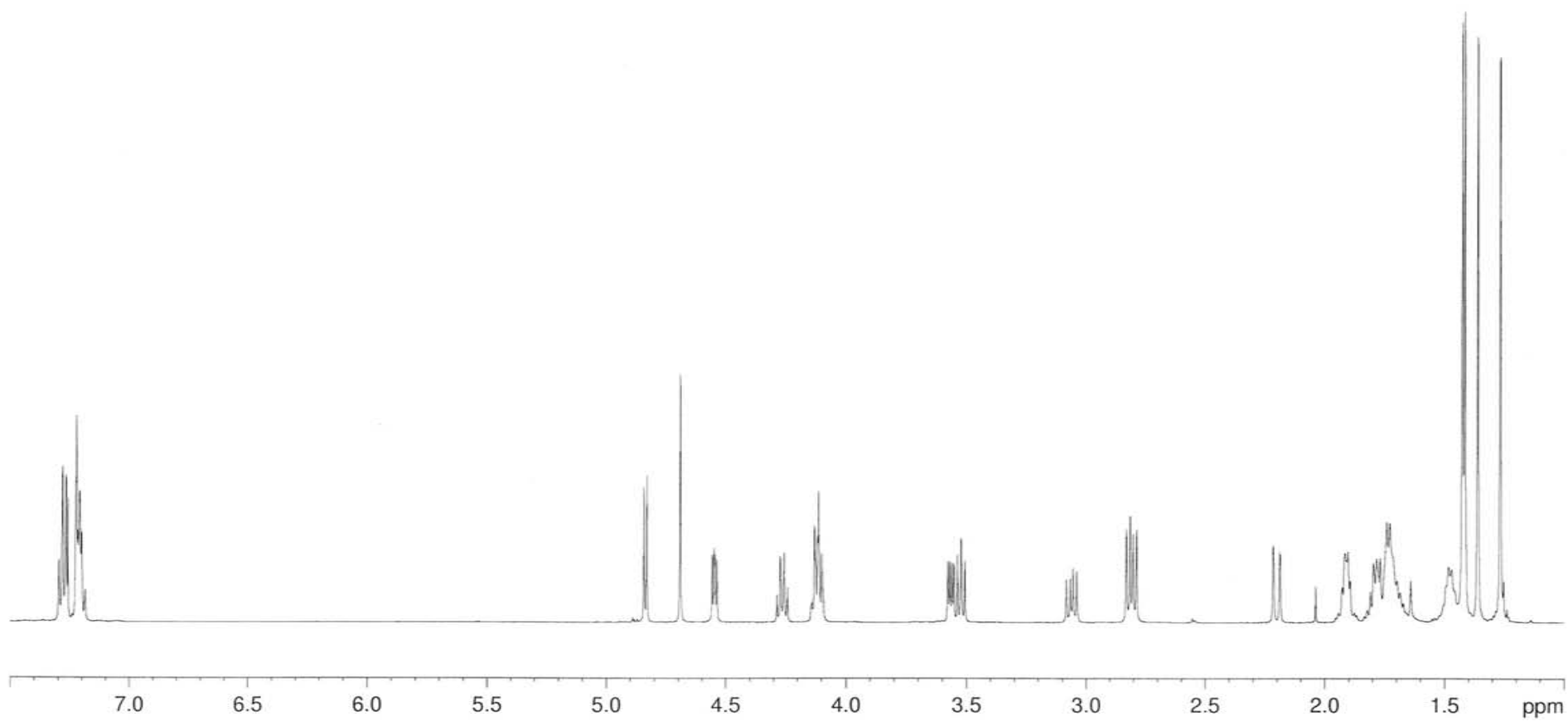
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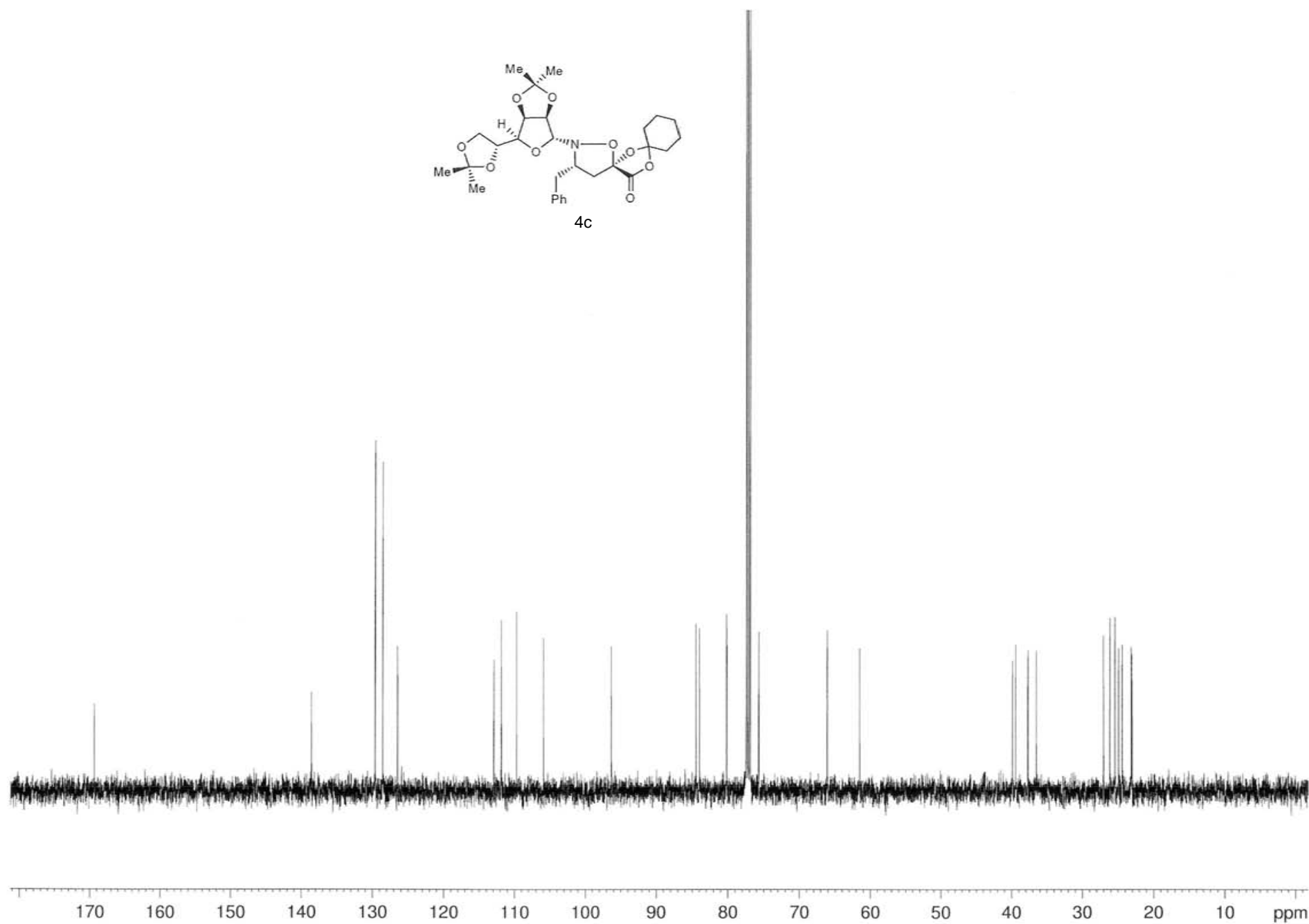
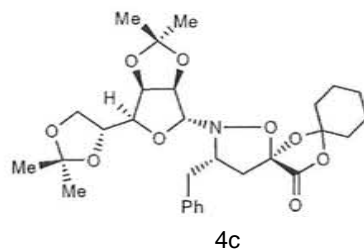


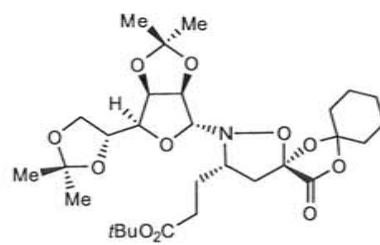




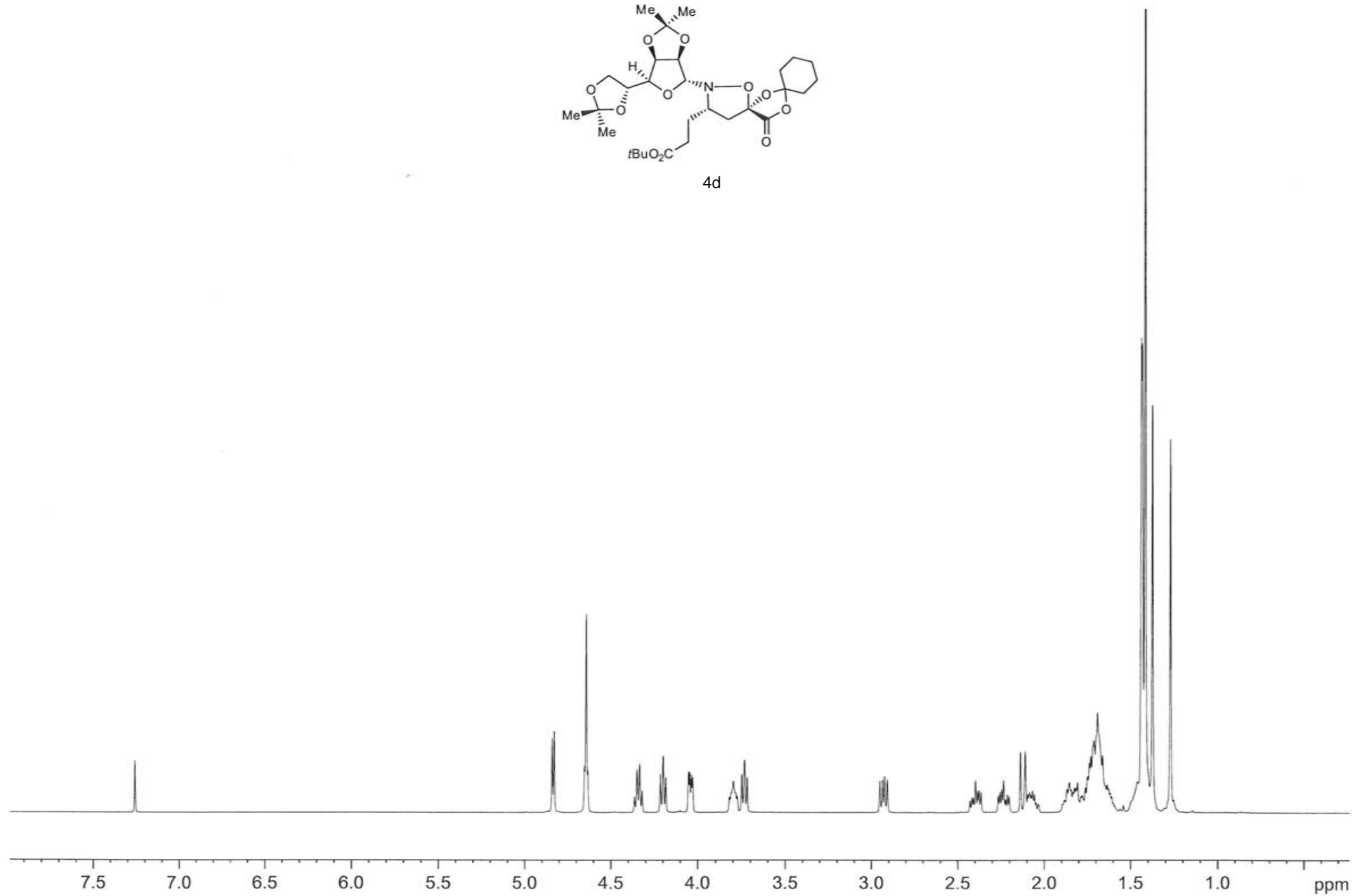
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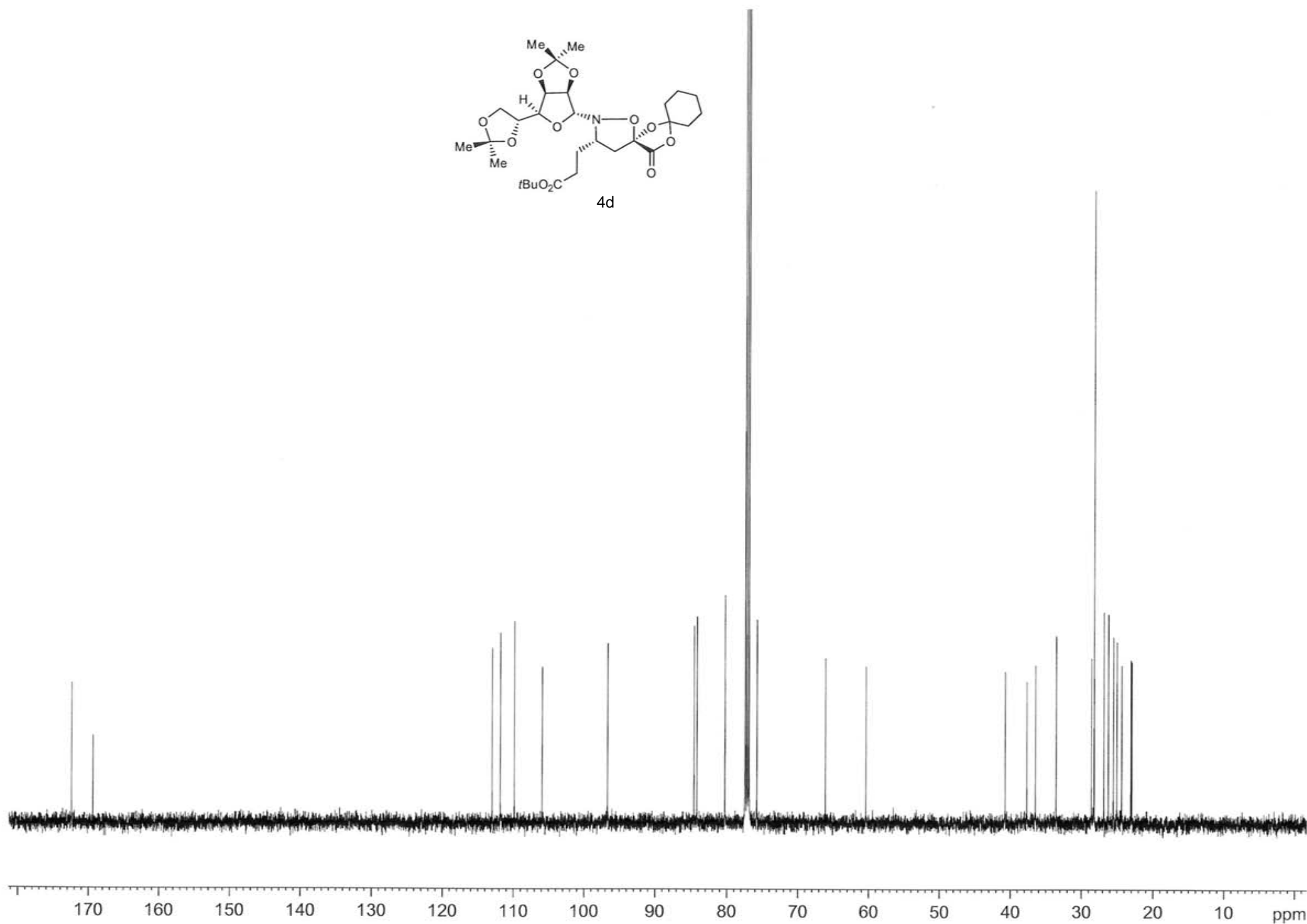
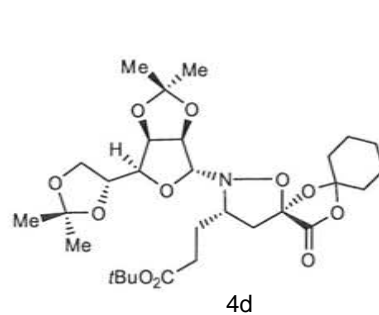


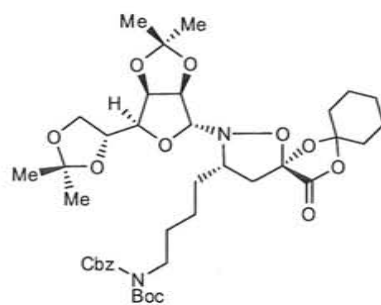




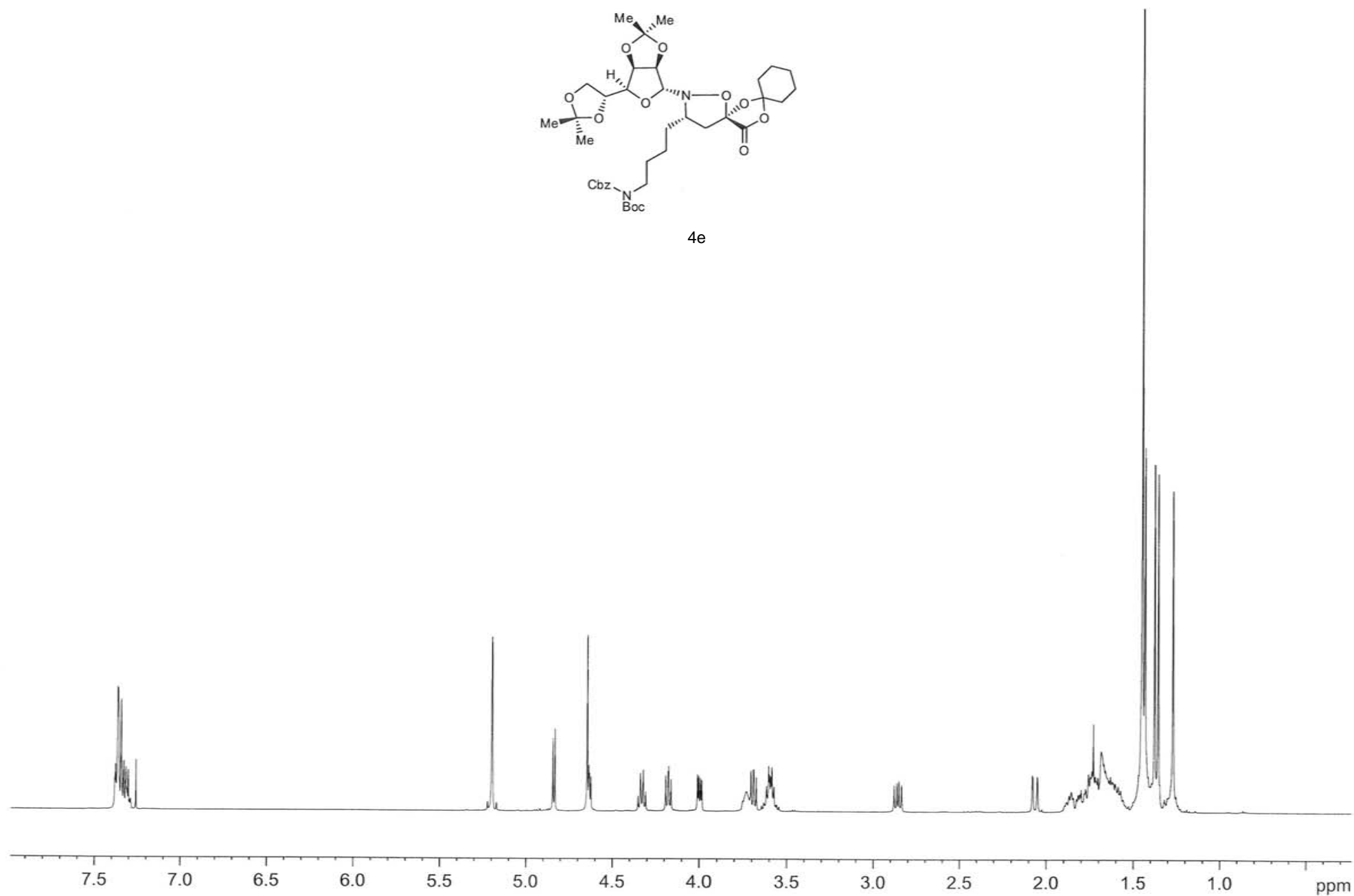
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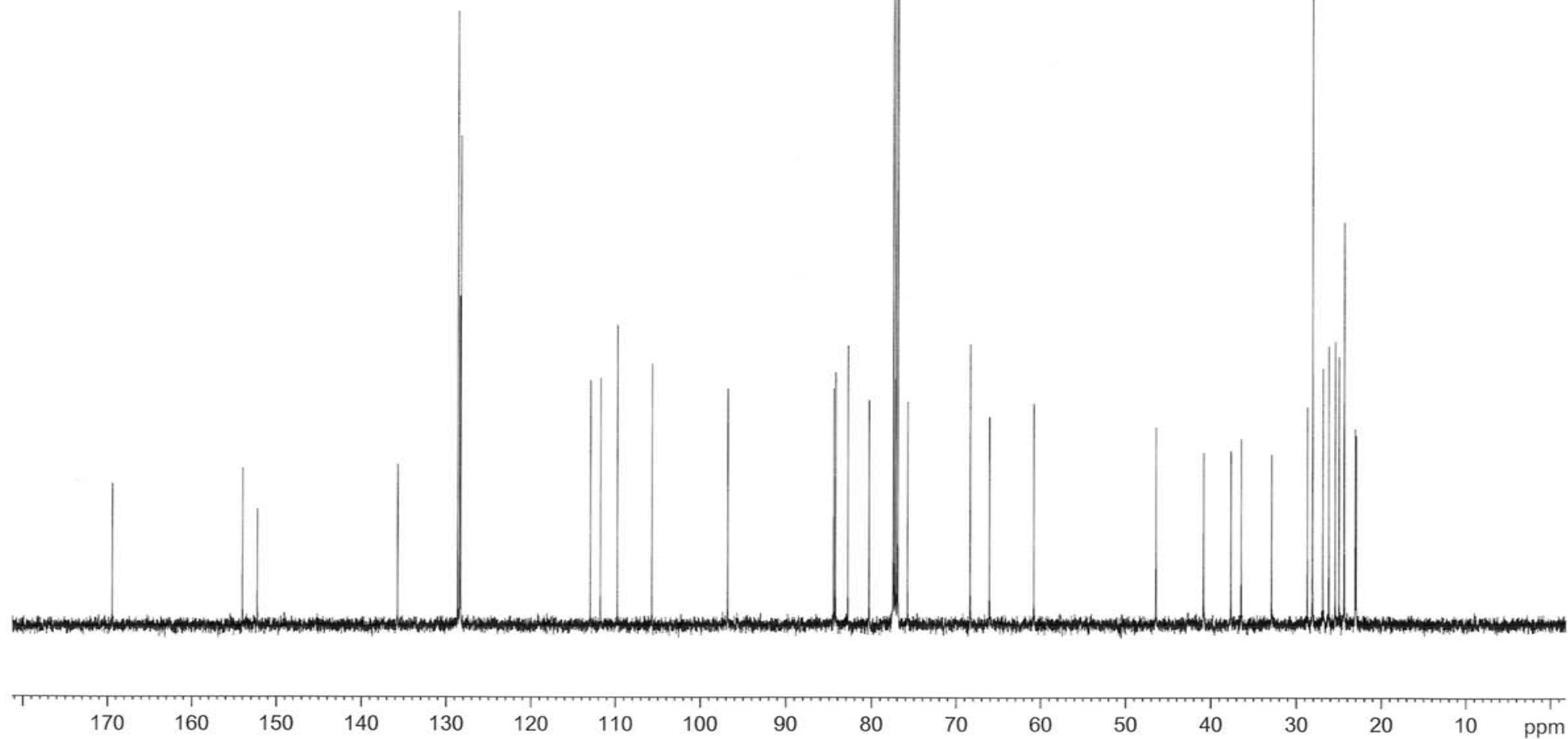
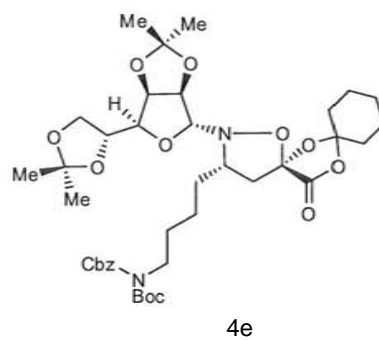


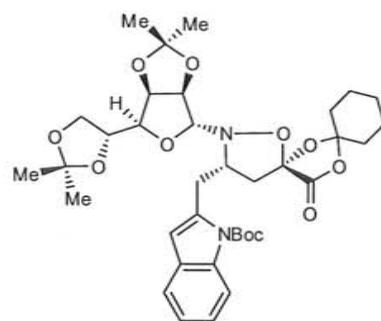




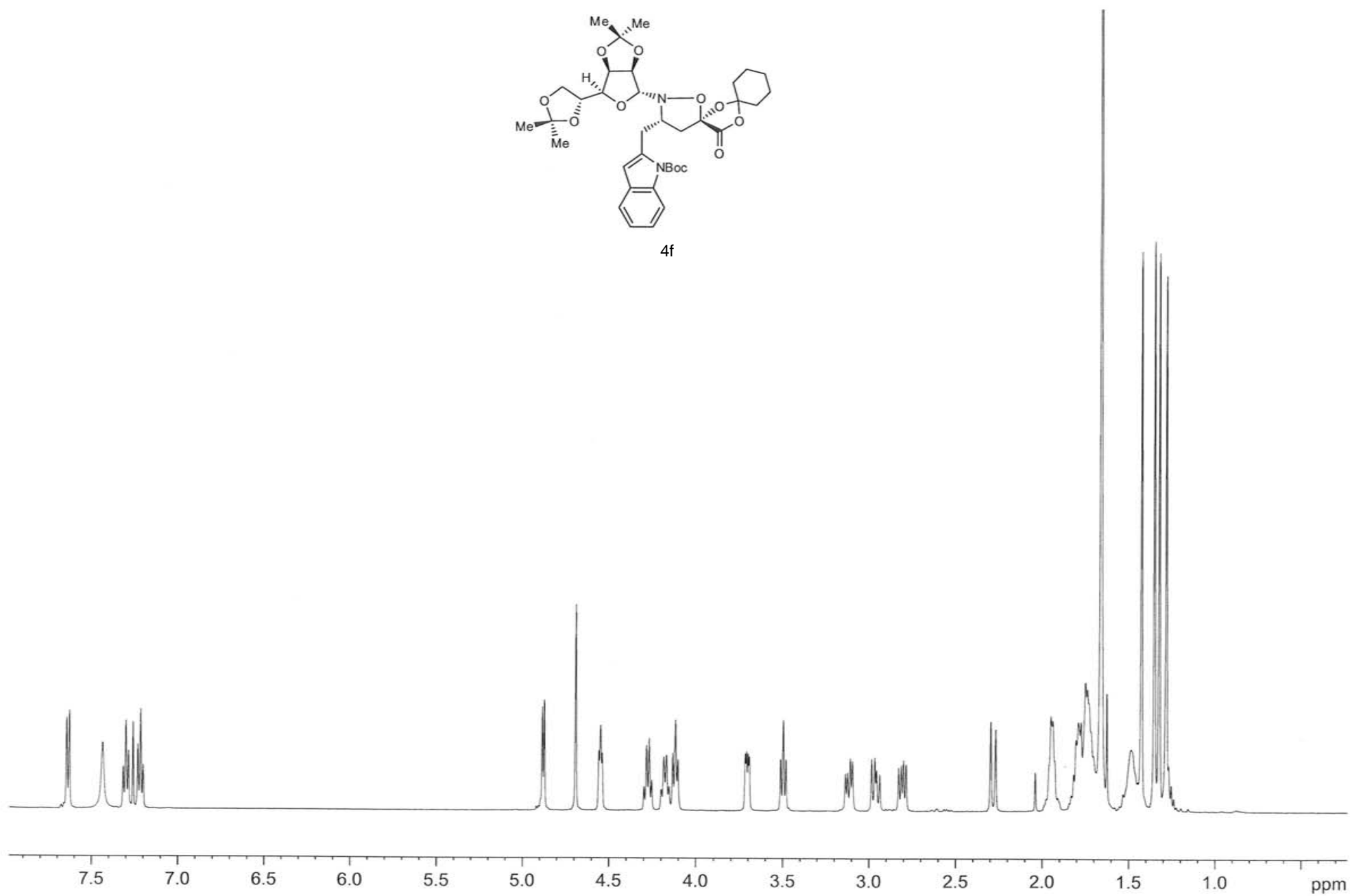
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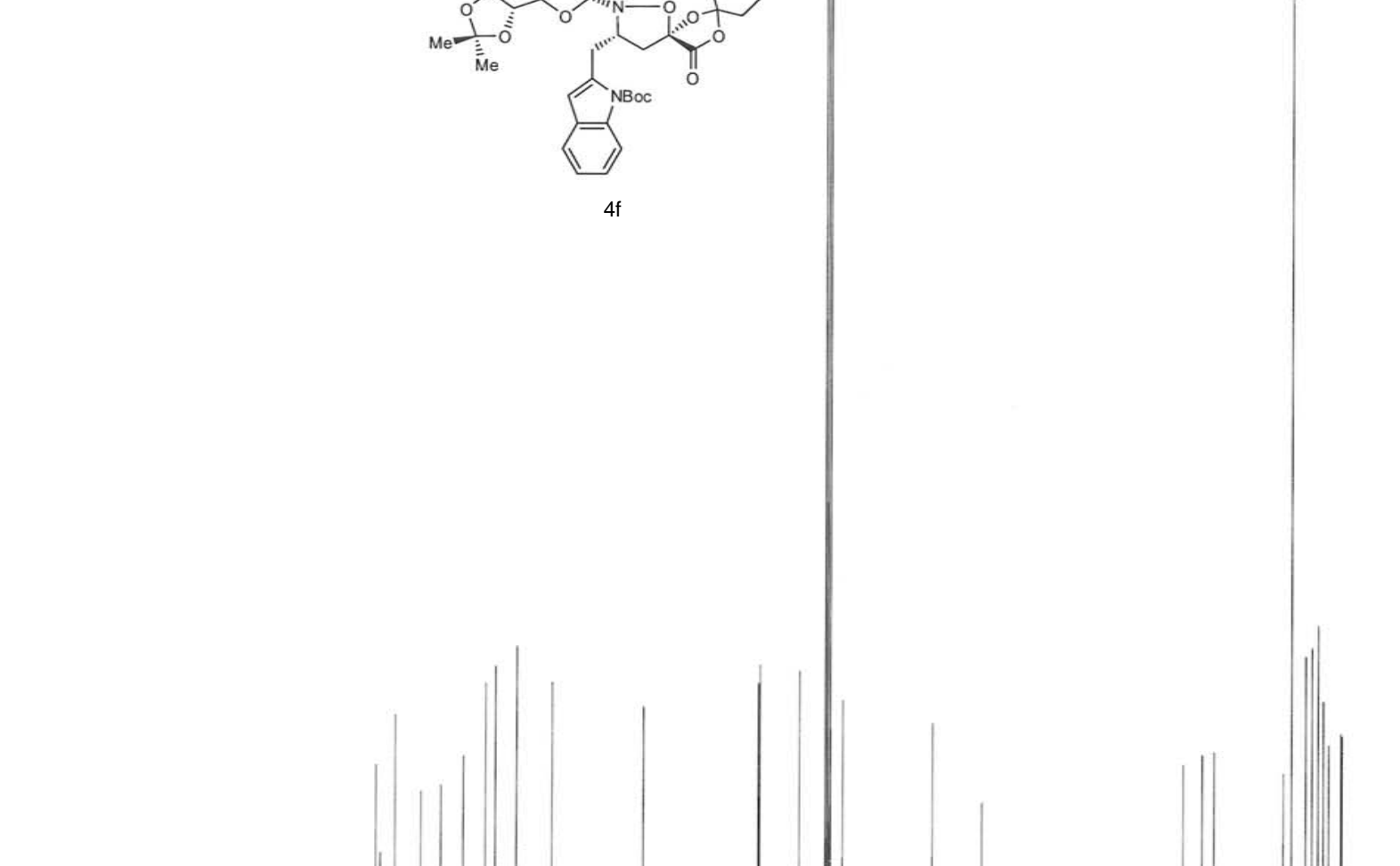






4f

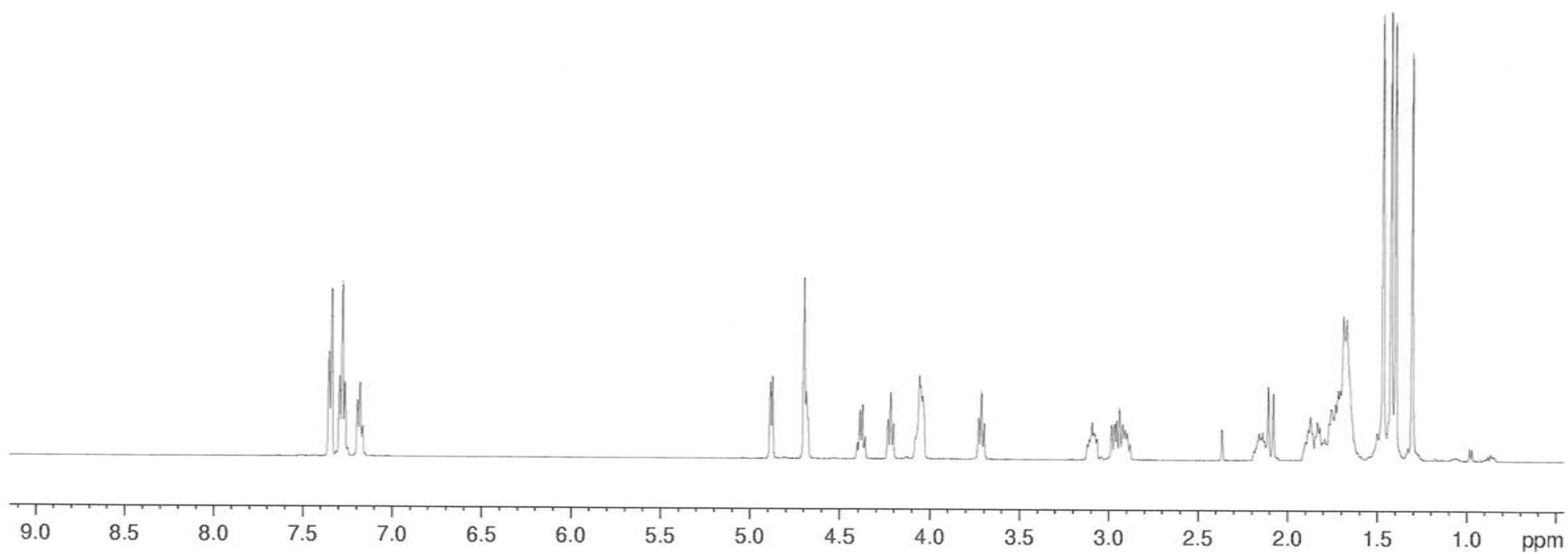
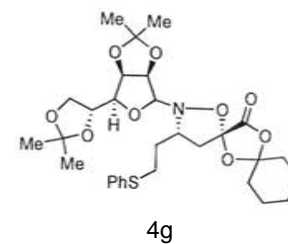


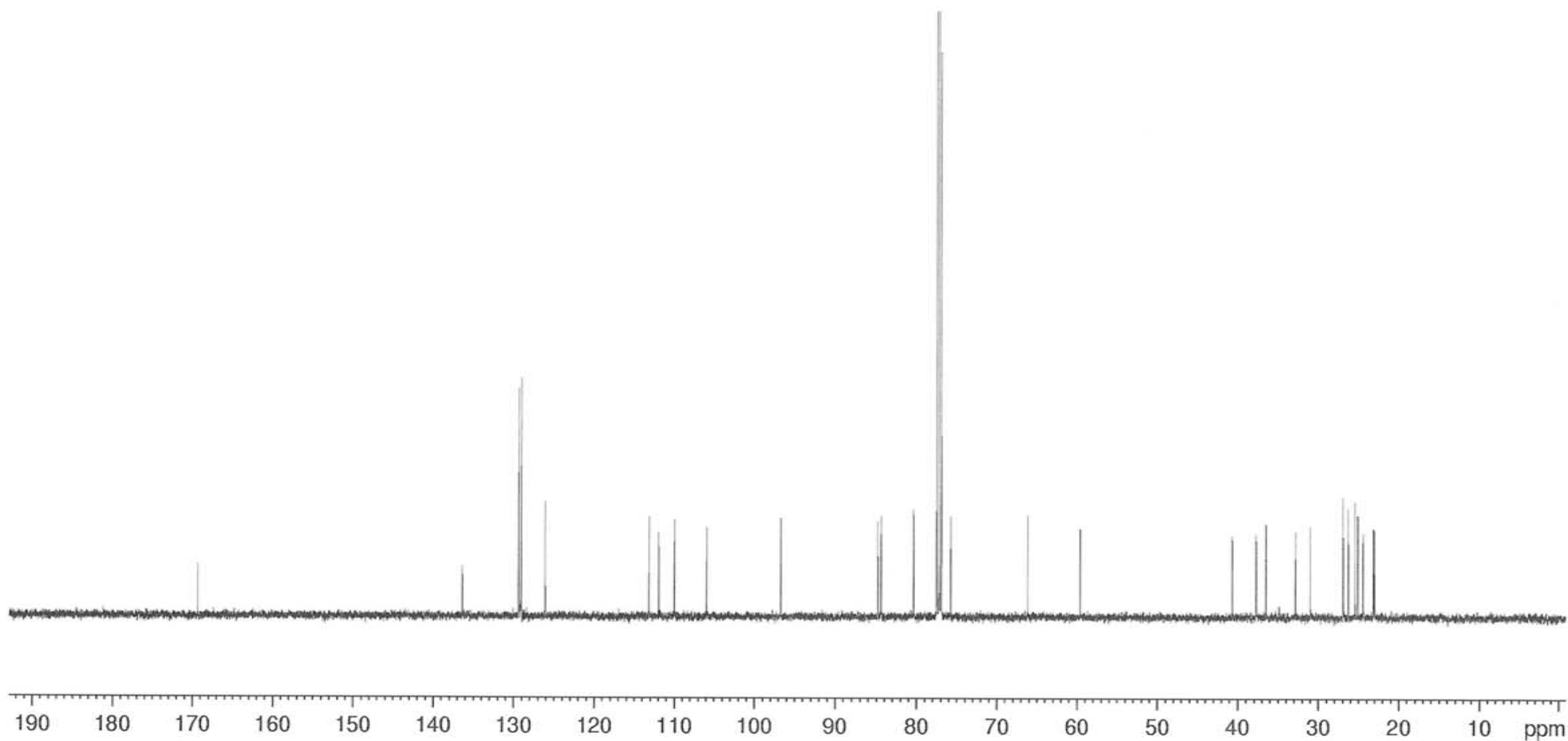
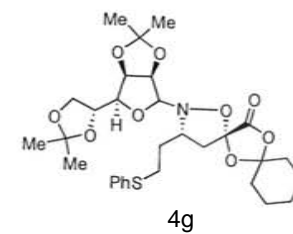


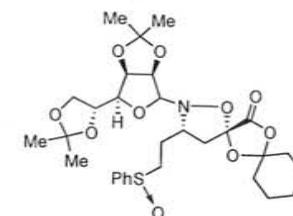
 The figure displays the chemical structure of compound **4f** and its corresponding ¹H NMR spectrum. The structure of **4f** is a complex molecule featuring a central bicyclic system (indole derivative) with a Boc-protected nitrogen. It is substituted with a 2,2-dimethyl-1,3-dioxolane ring, a 2,2-dimethyl-1,3-dioxane ring, and a 2,2,6,6-tetramethyl-1,3-dioxane-5-carboxylate group. The NMR spectrum shows a broad range of peaks from 0 to 10 ppm, with a prominent peak at approximately 7.5 ppm and a large cluster of peaks between 2.0 and 4.0 ppm.

4f

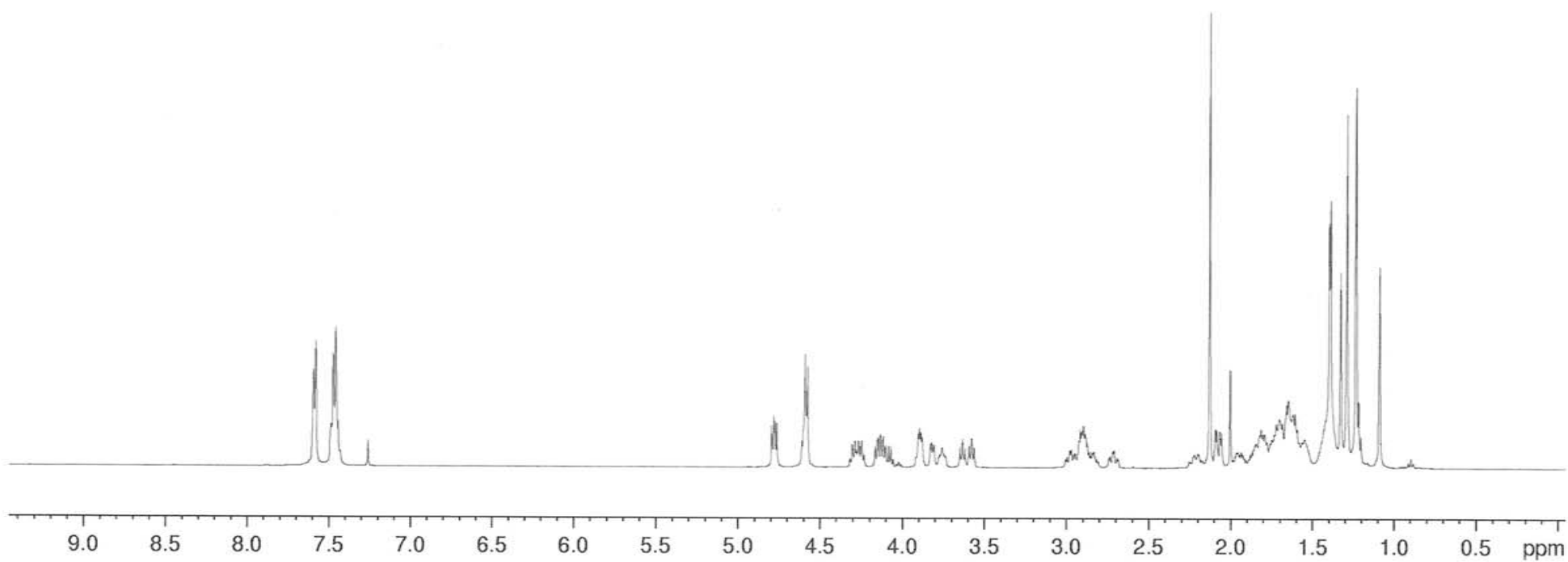
170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ppm

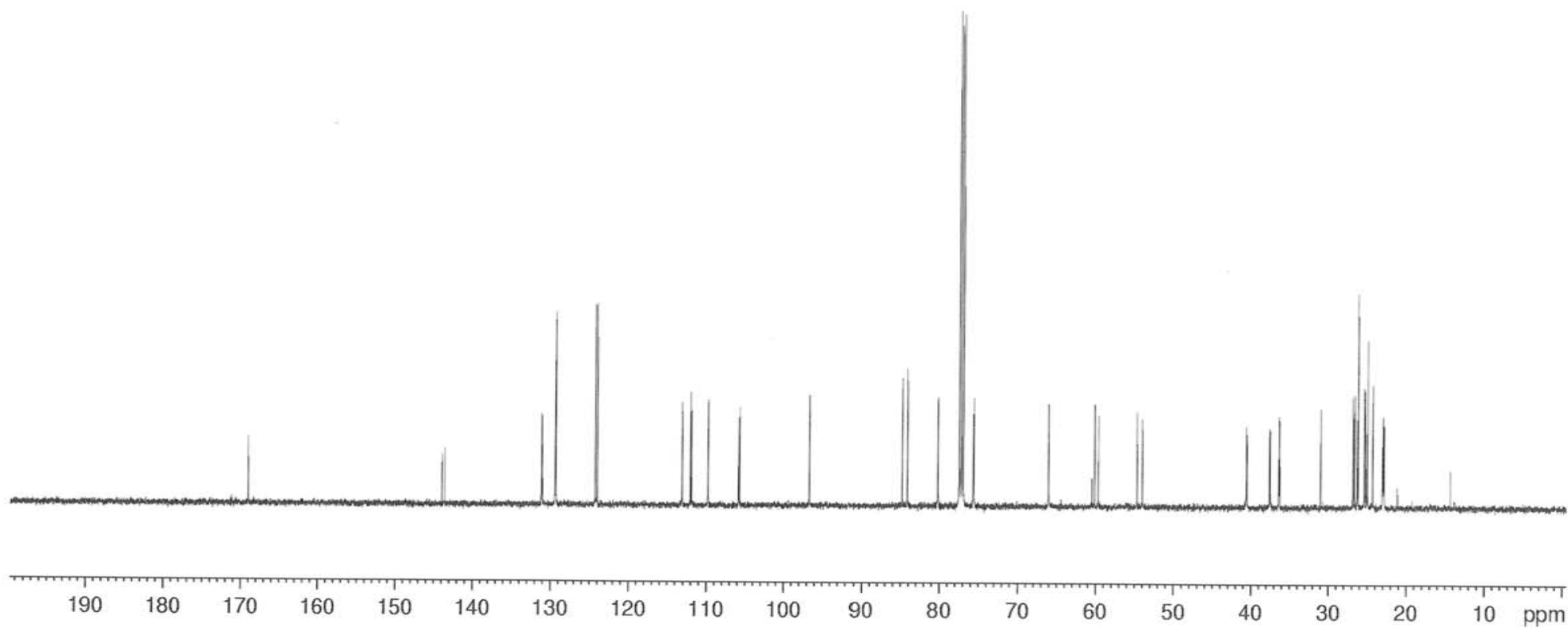
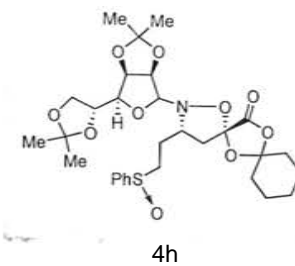


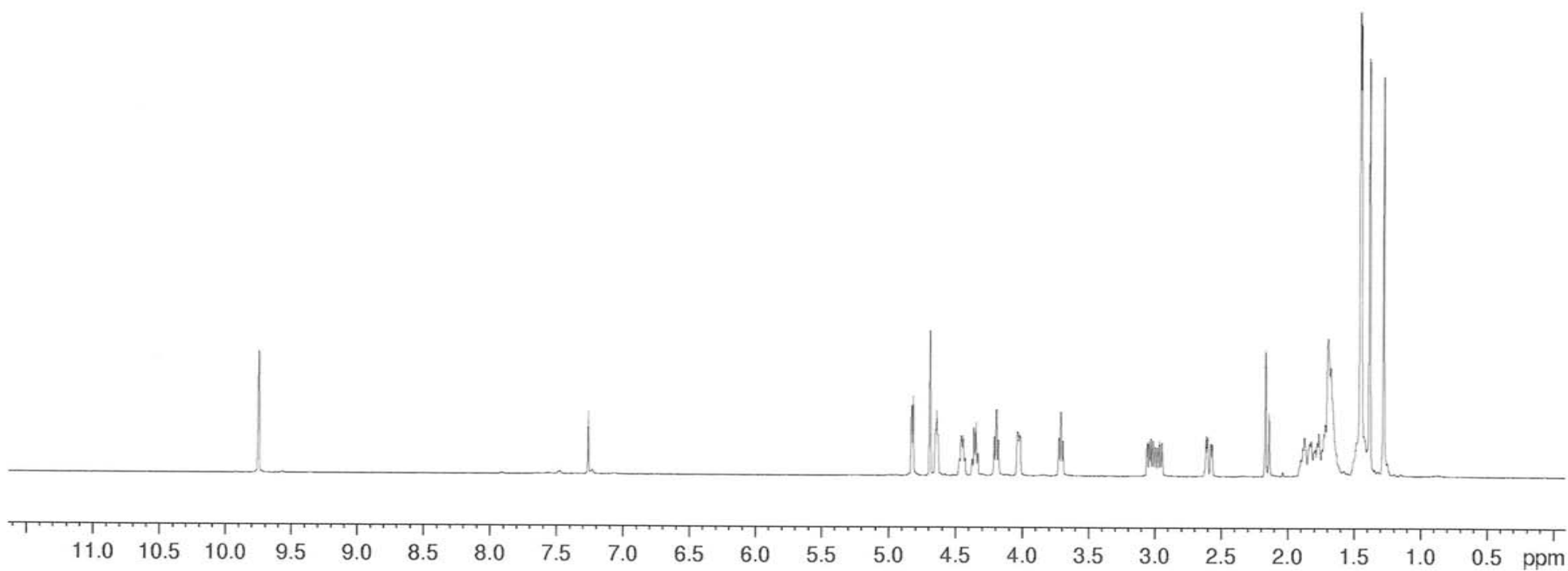
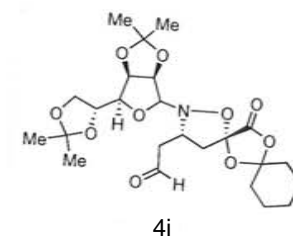


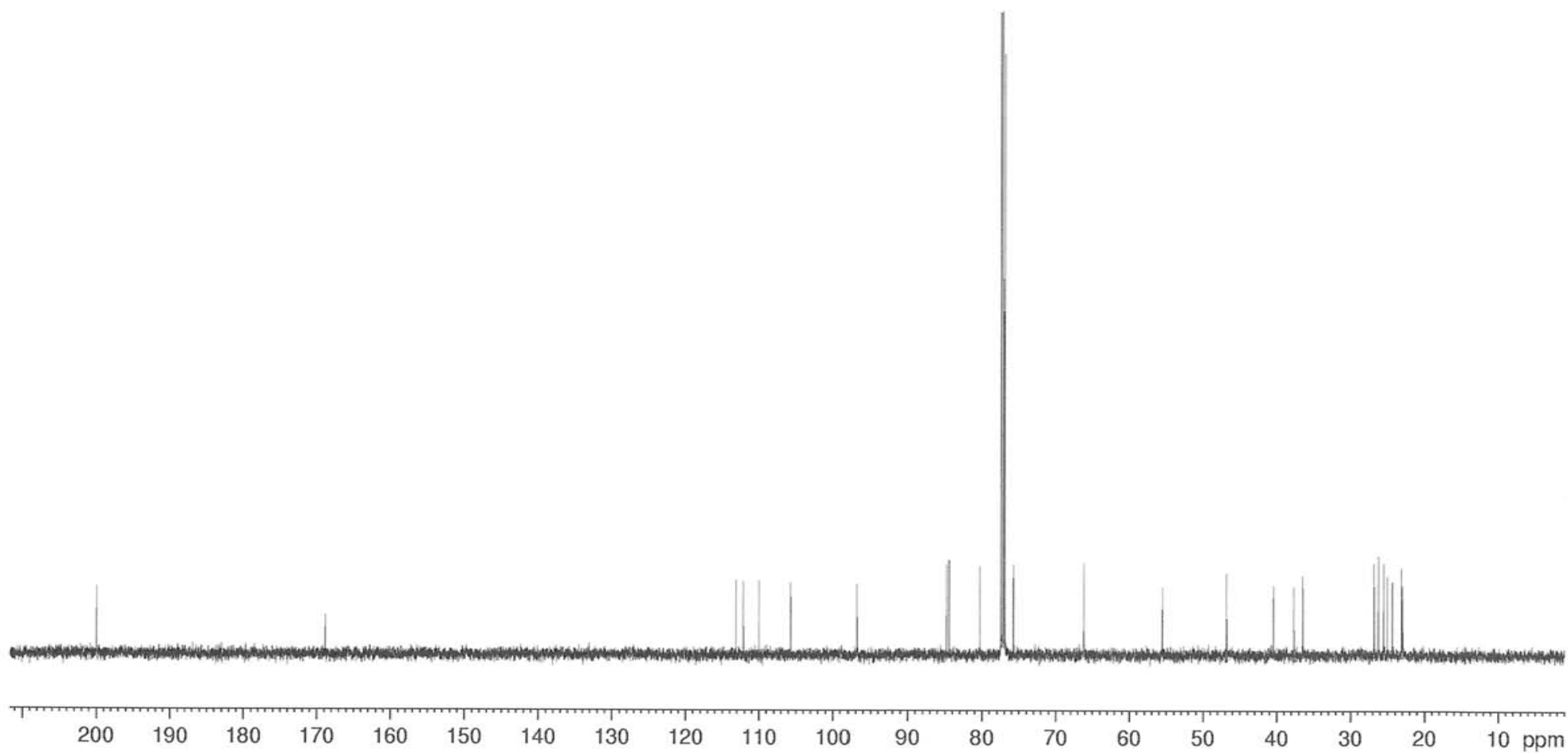


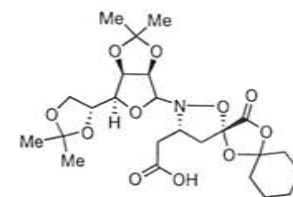
4h



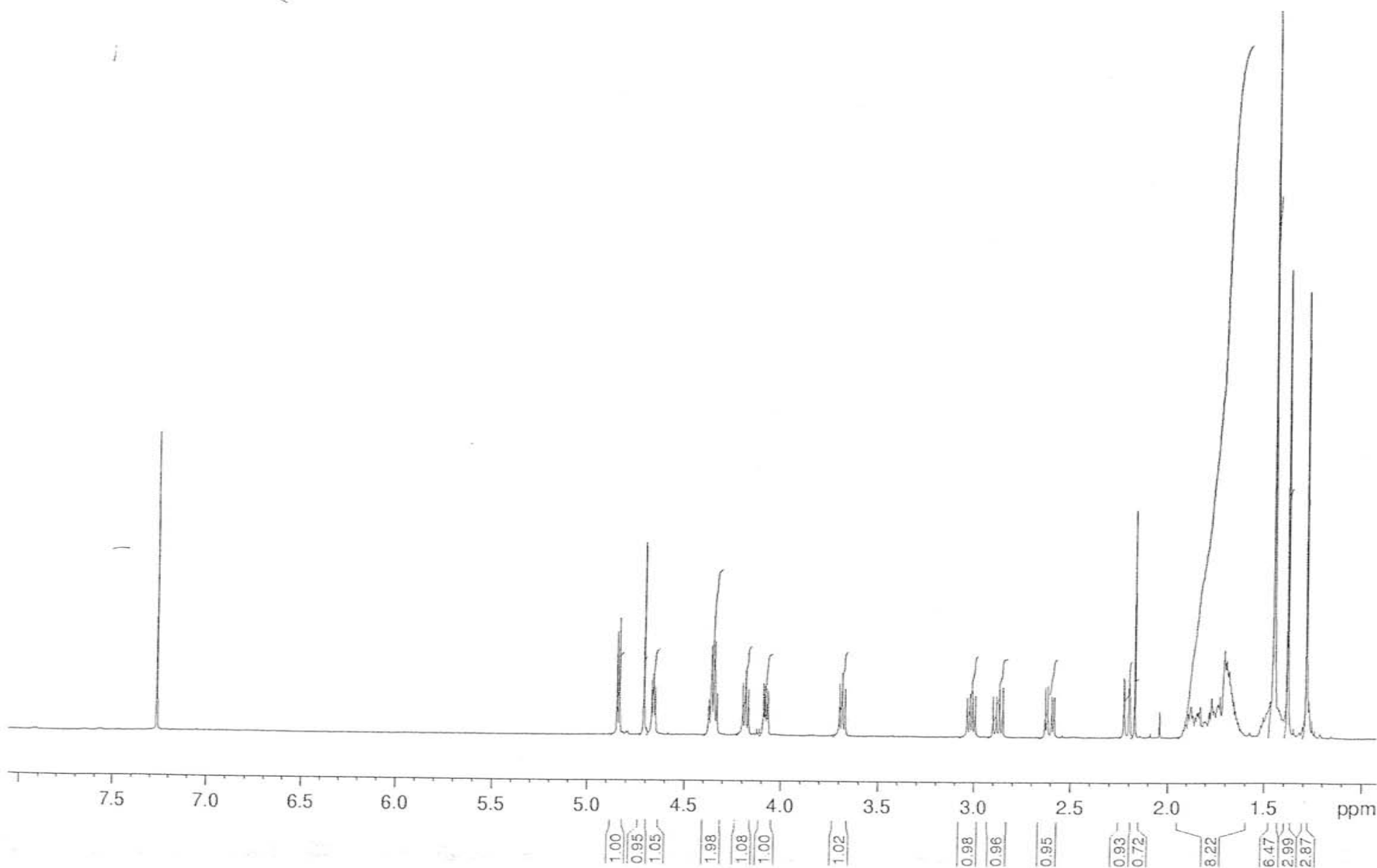


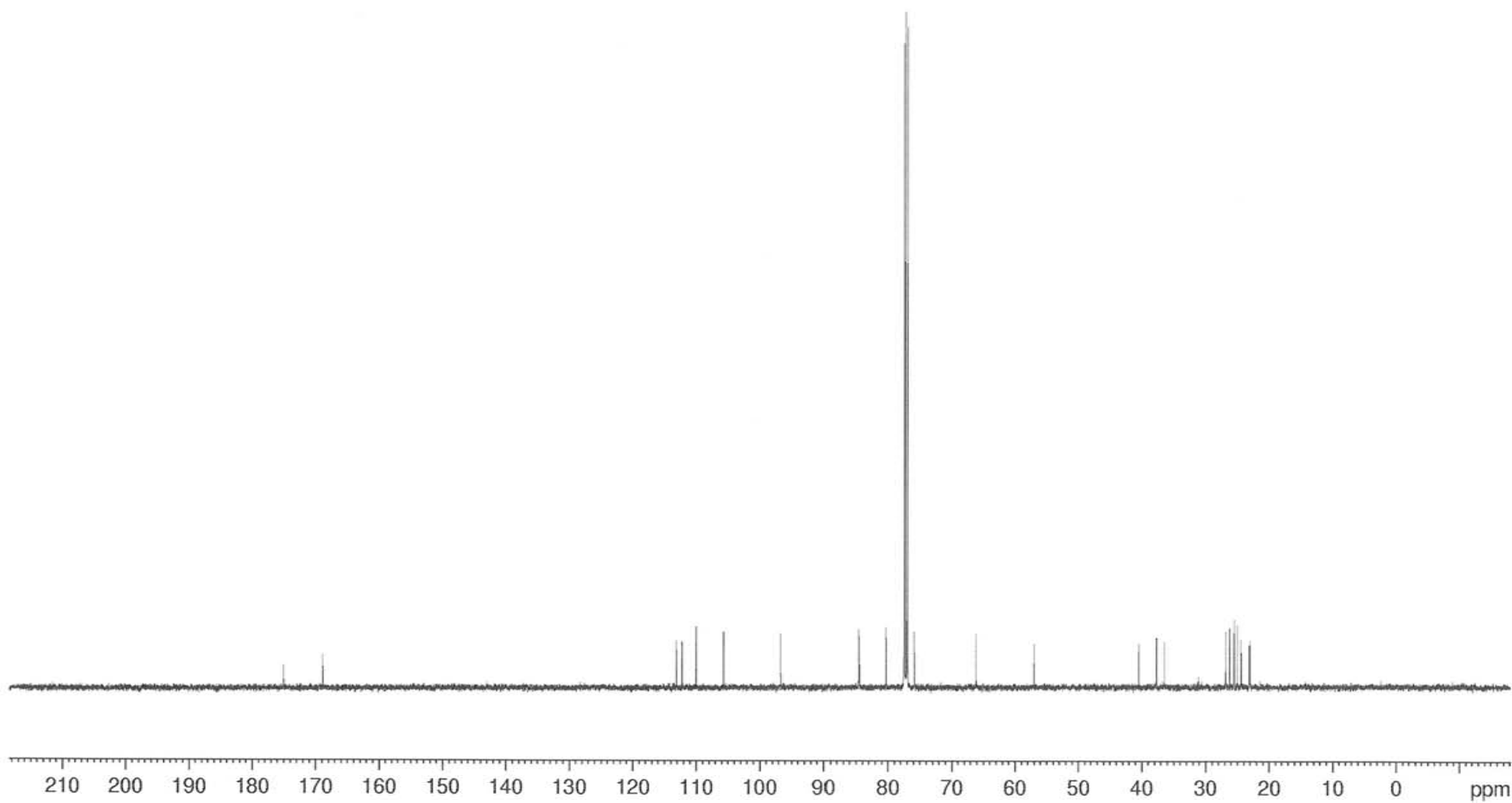
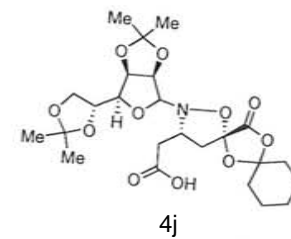


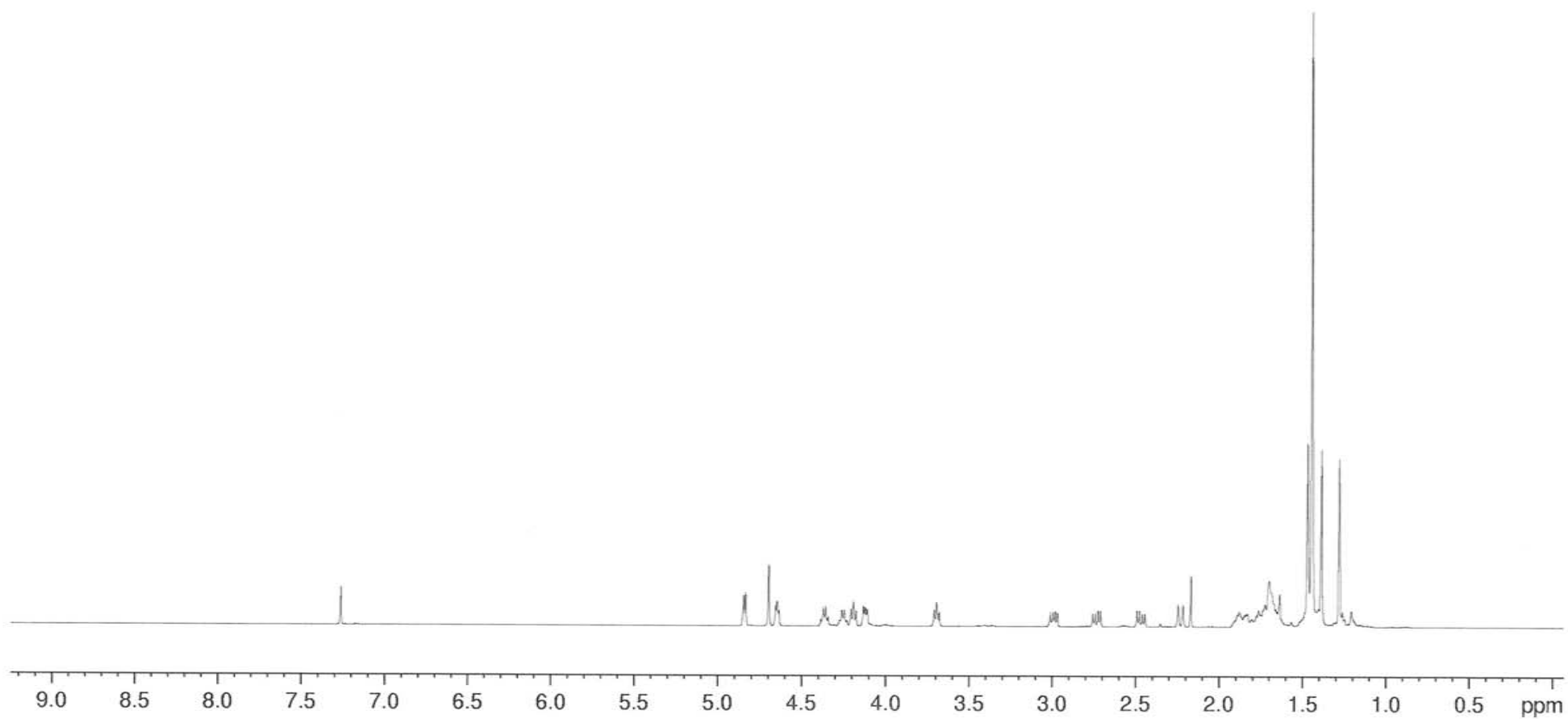
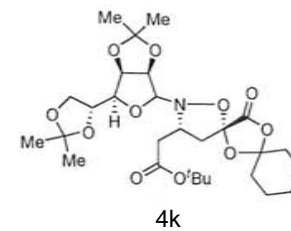


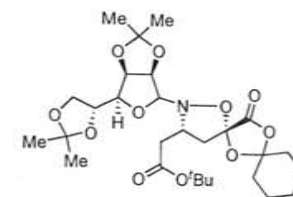


4j

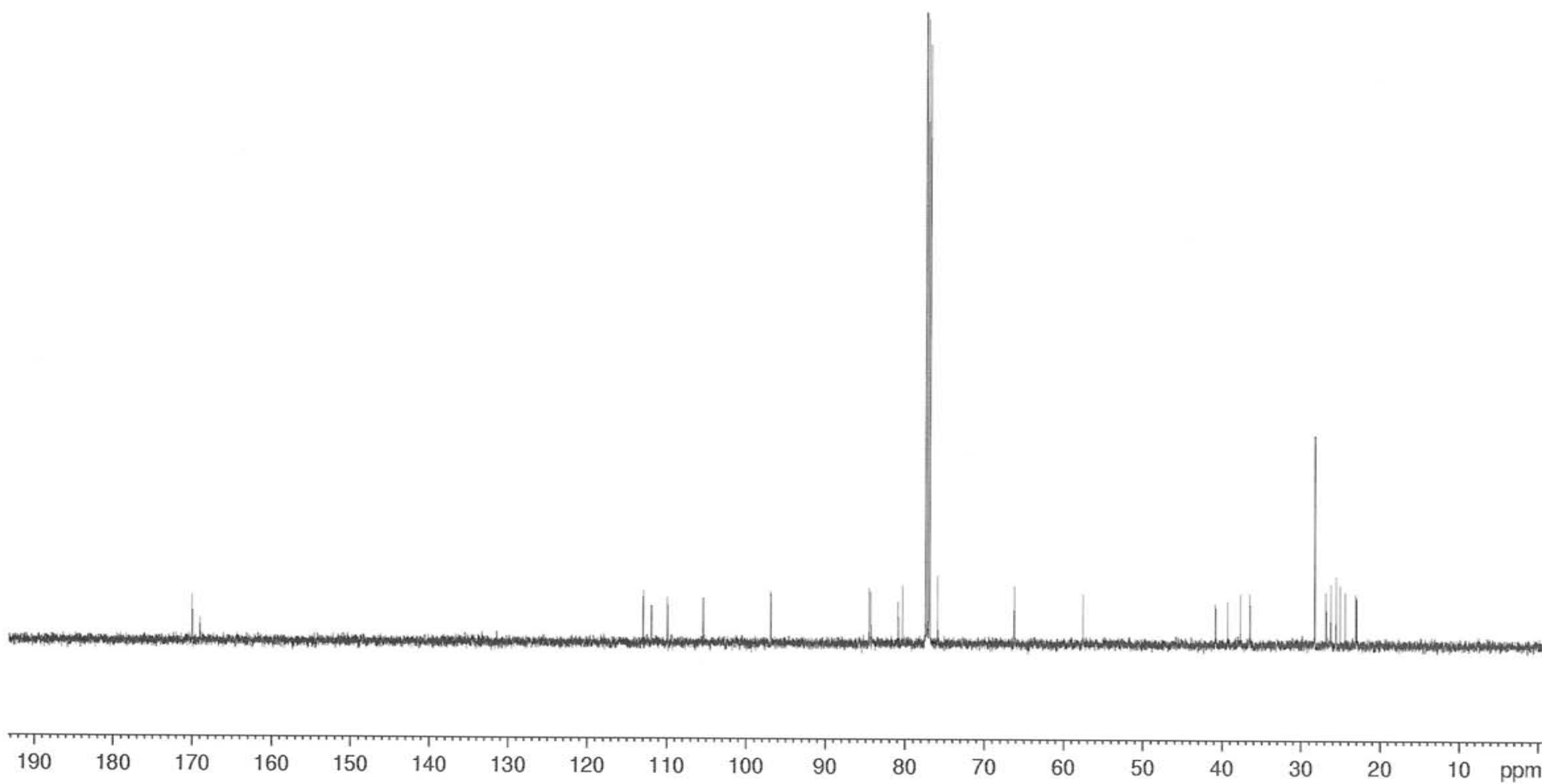


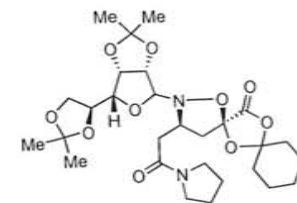




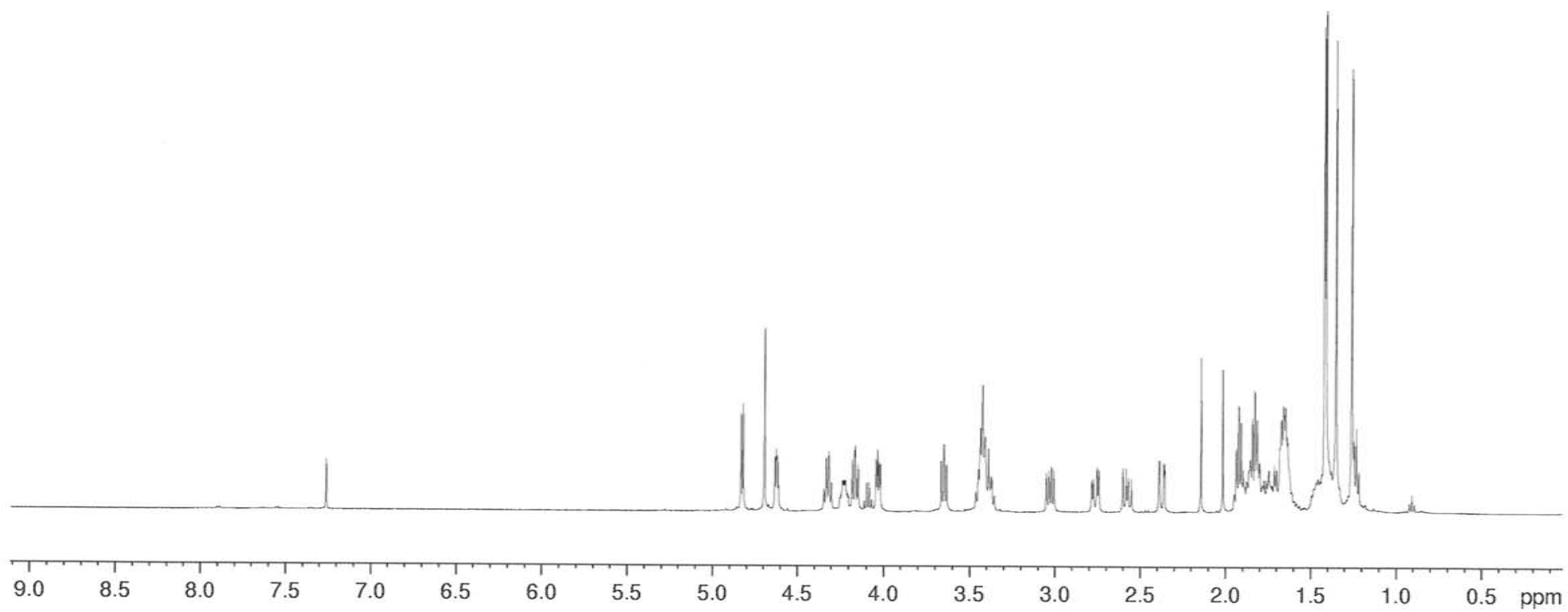


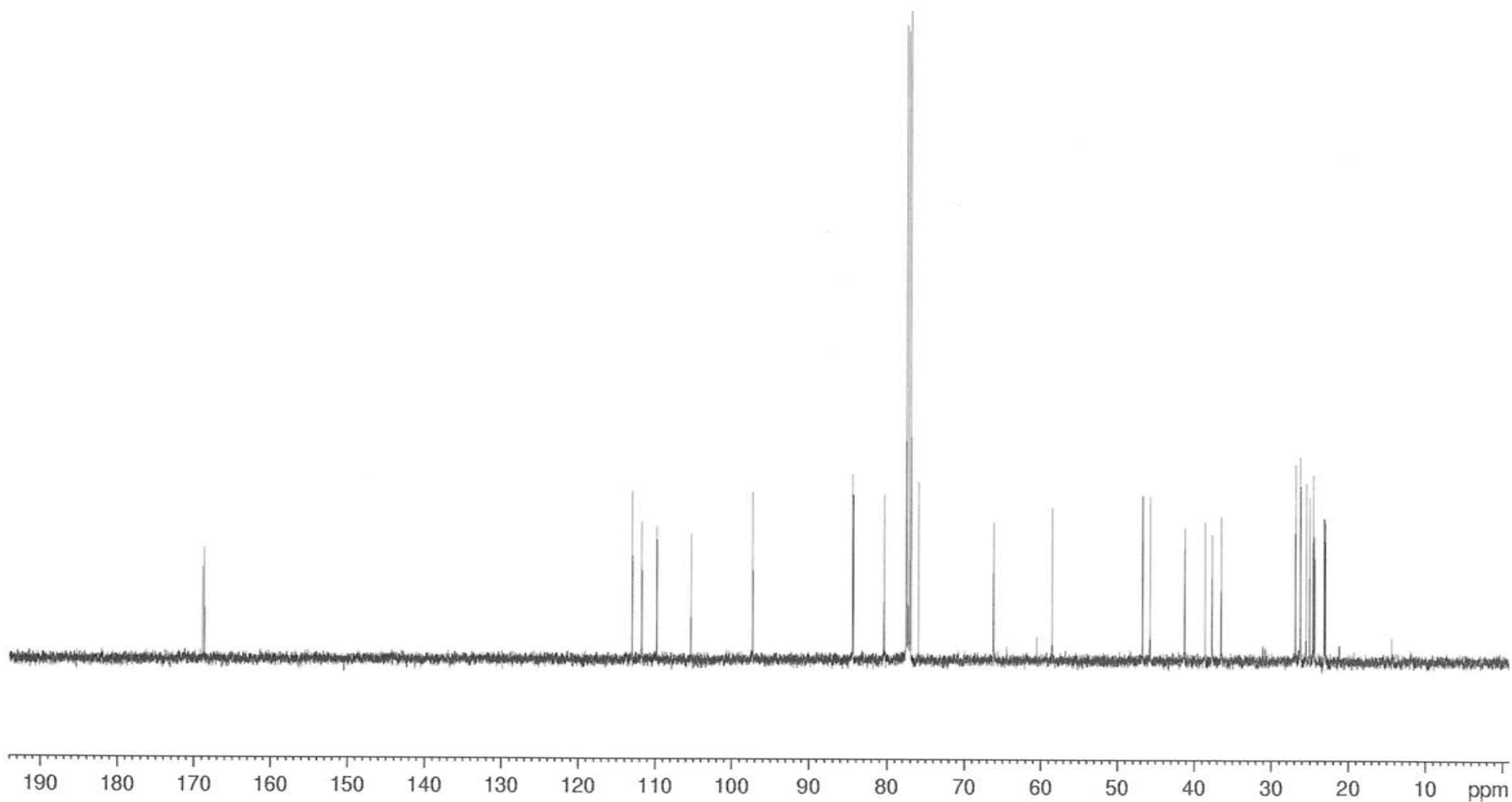
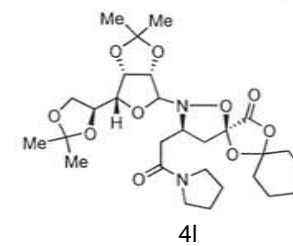
4k

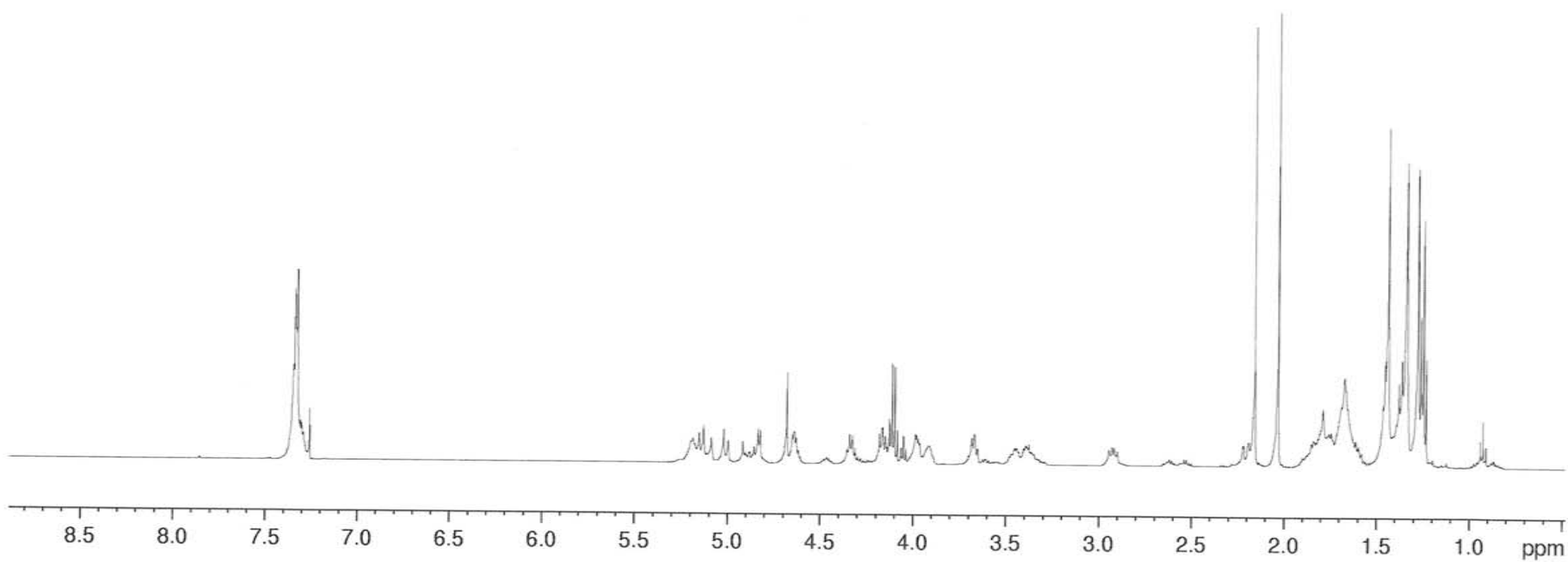
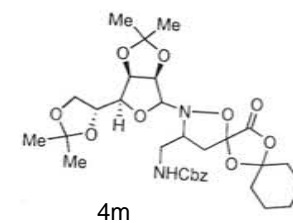


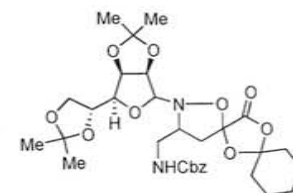


4l

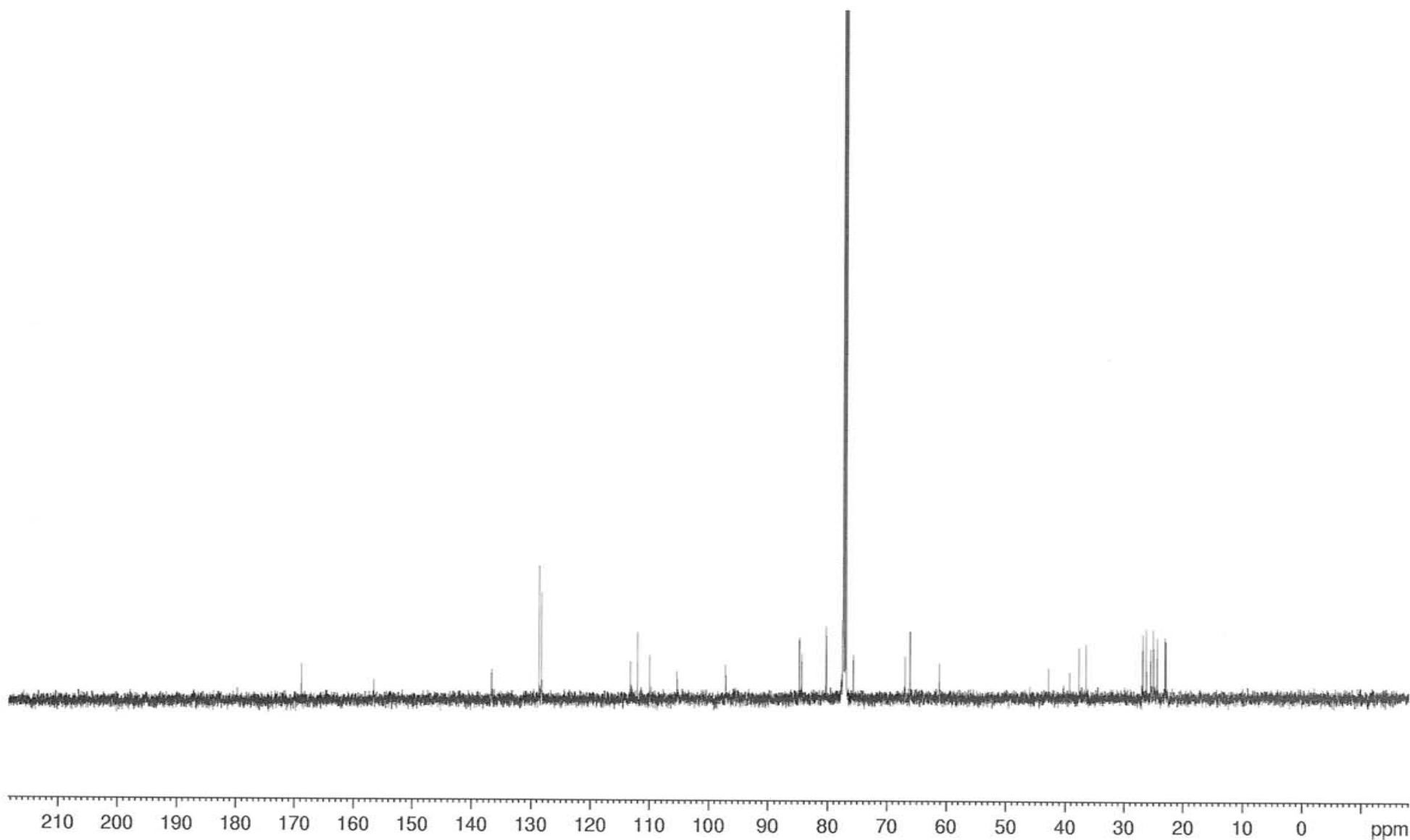


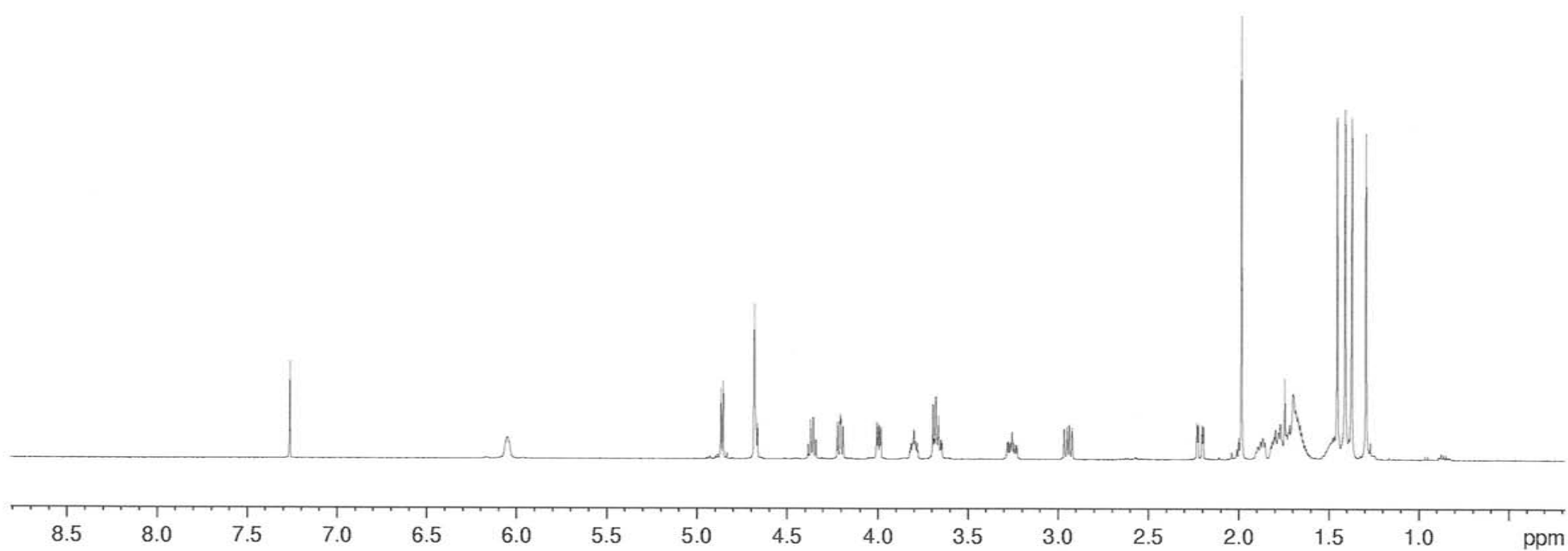
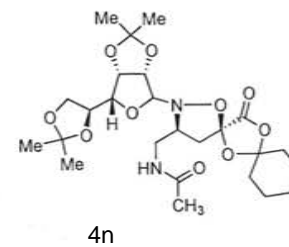


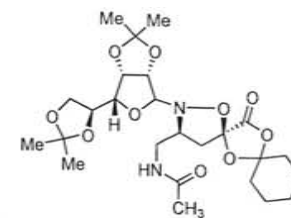




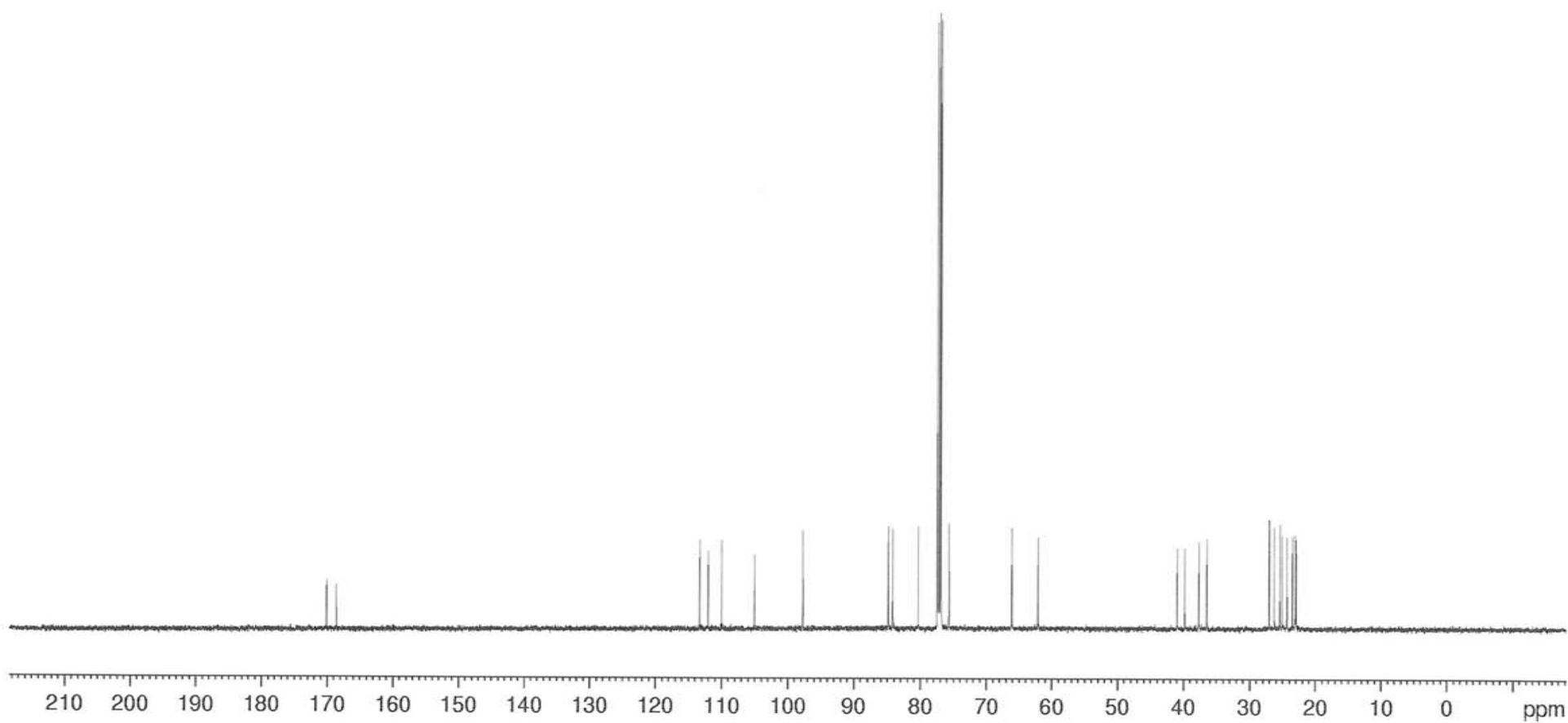
4m

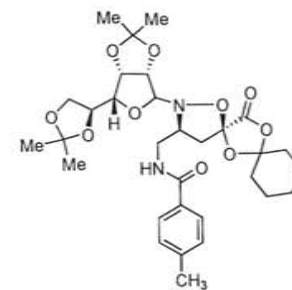




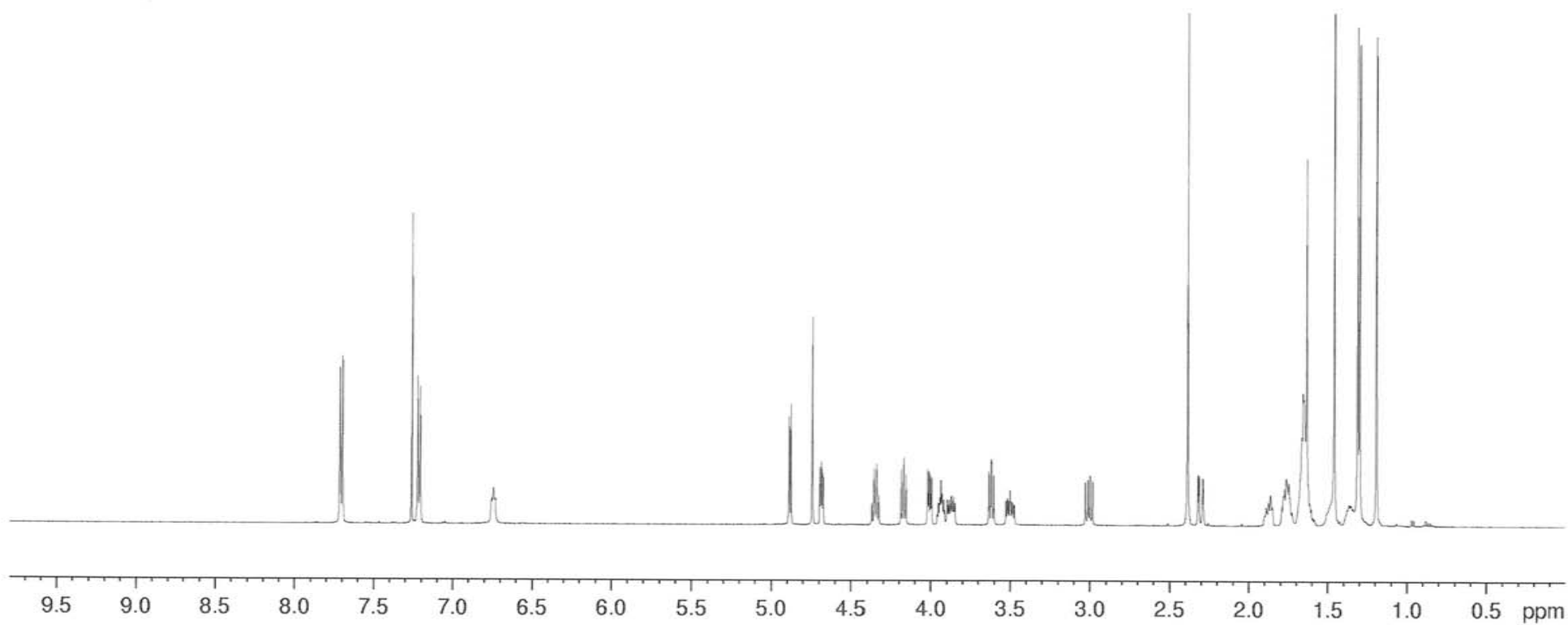


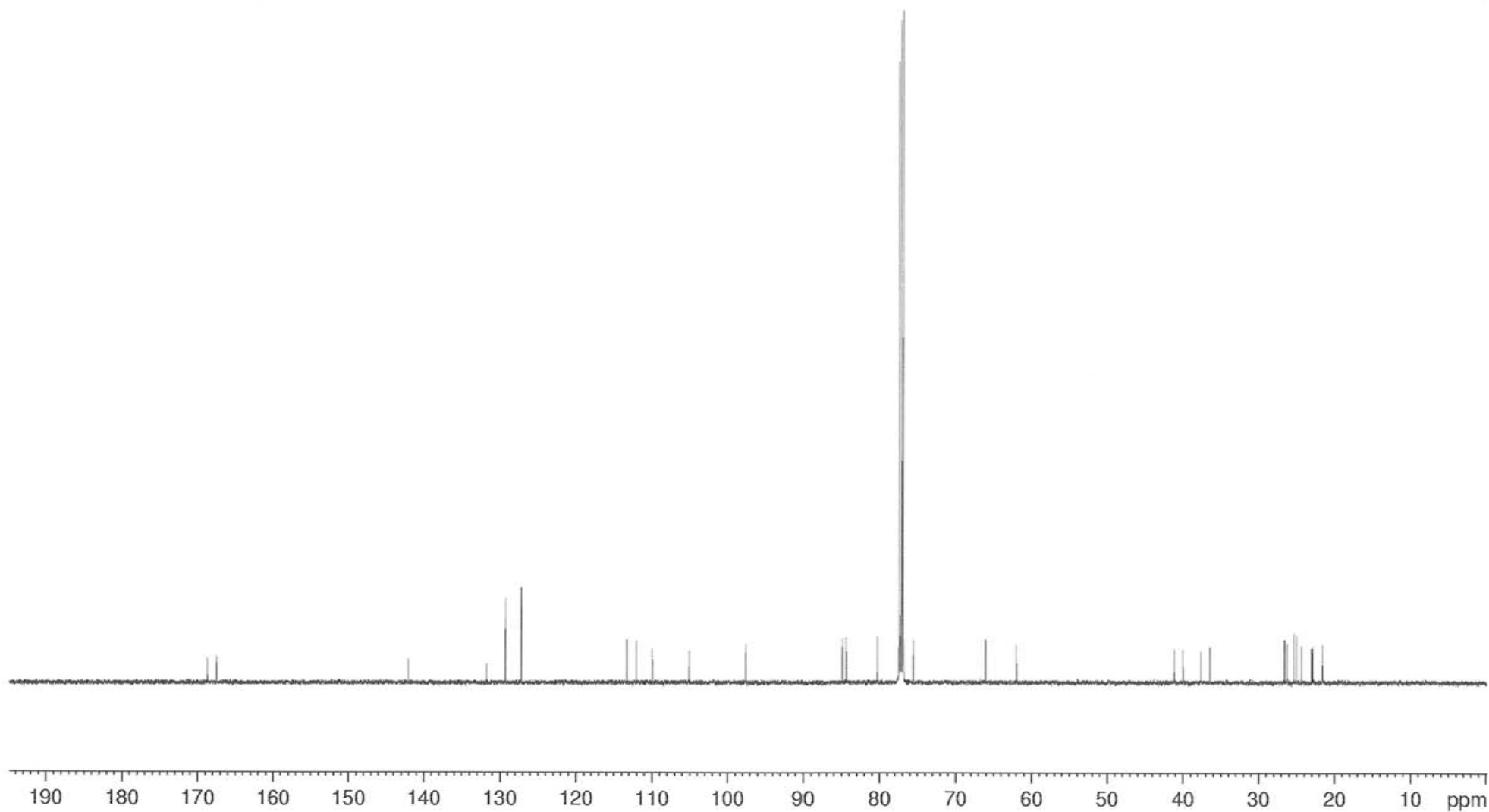
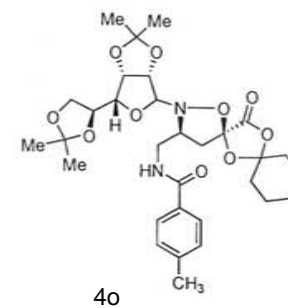
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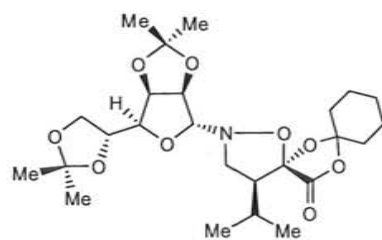




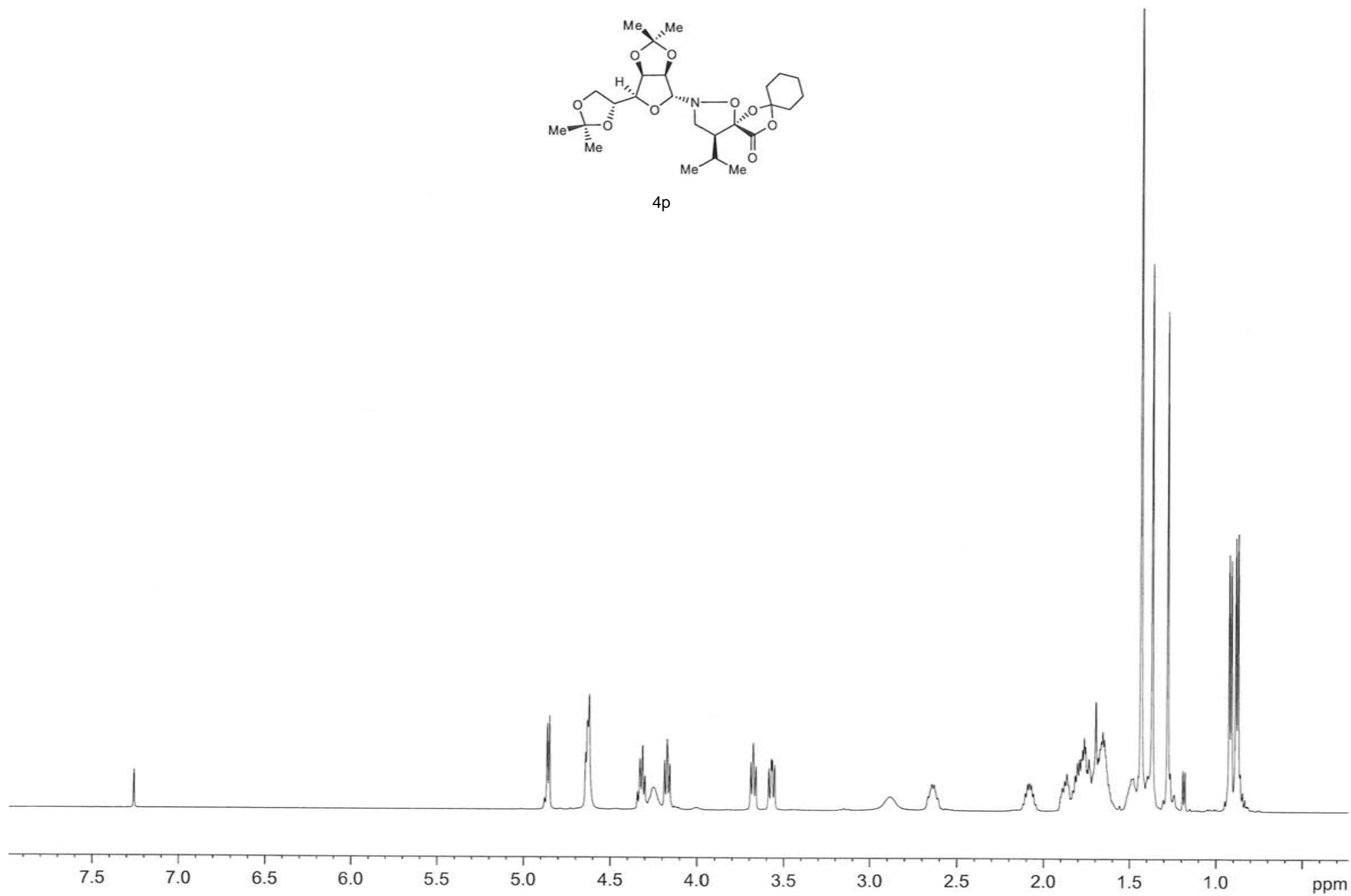
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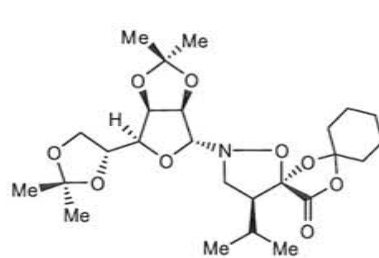




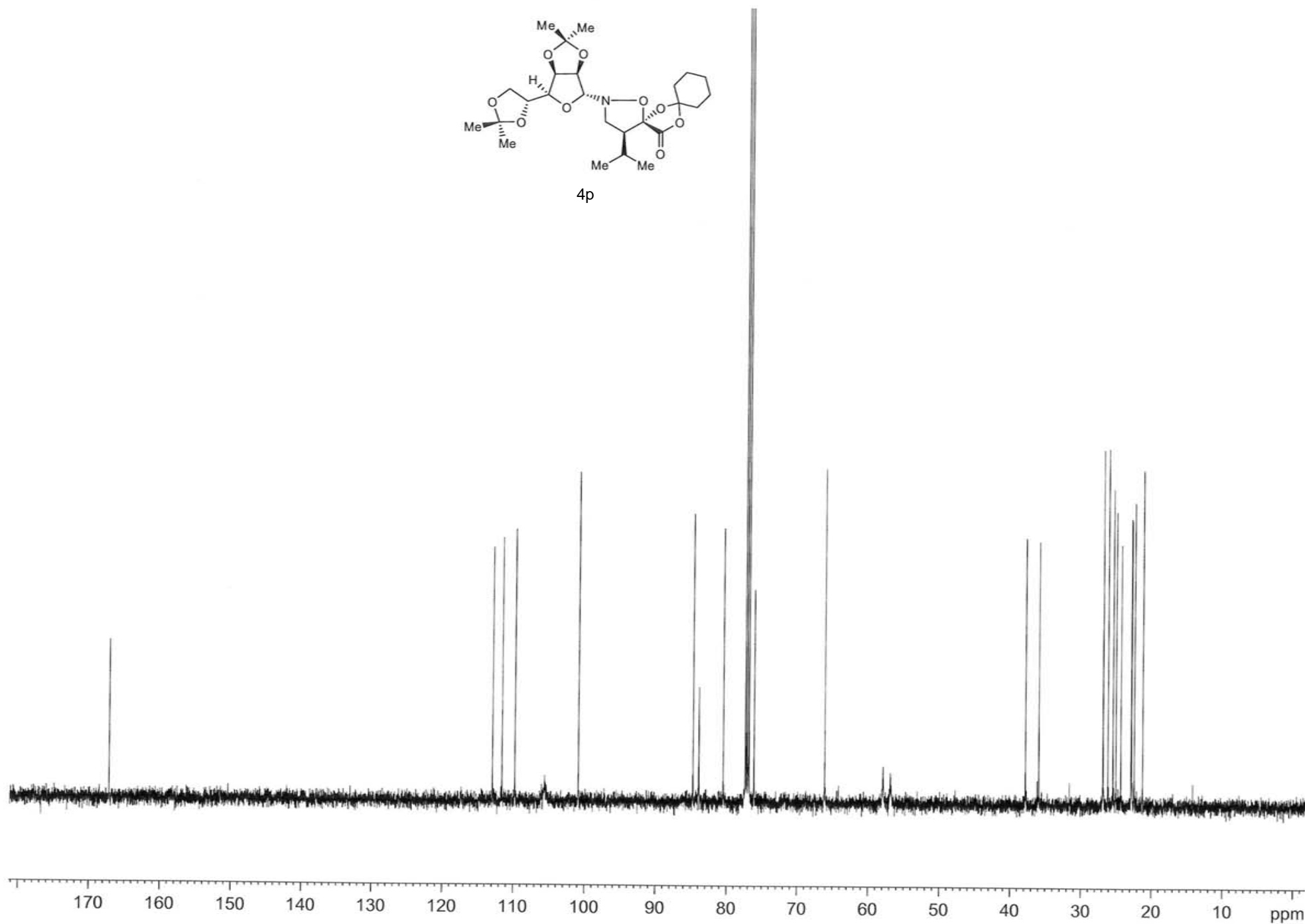


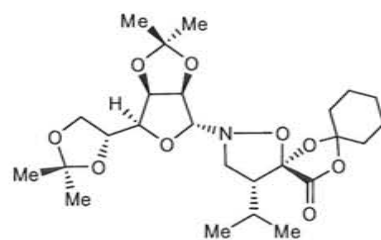
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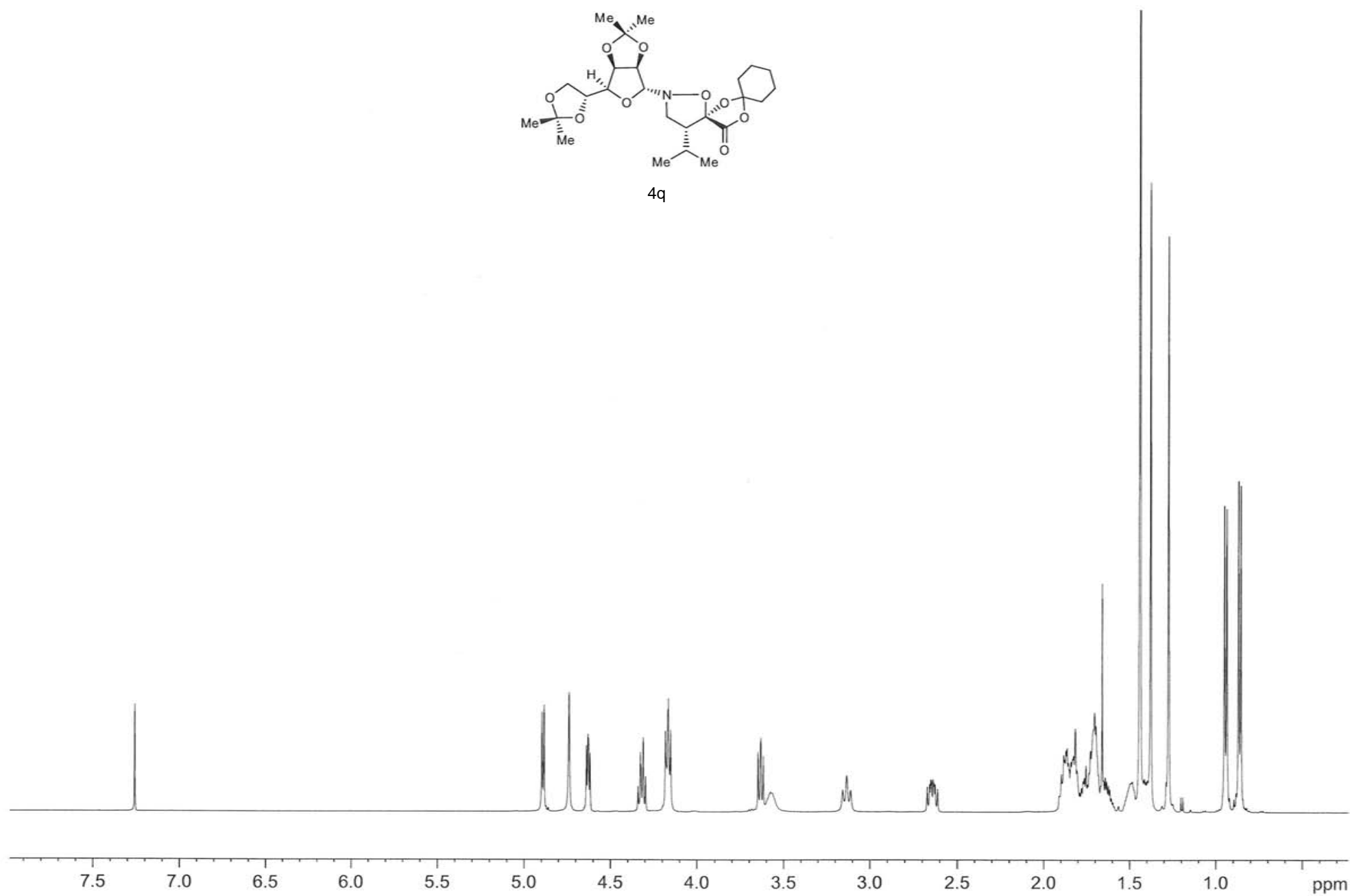


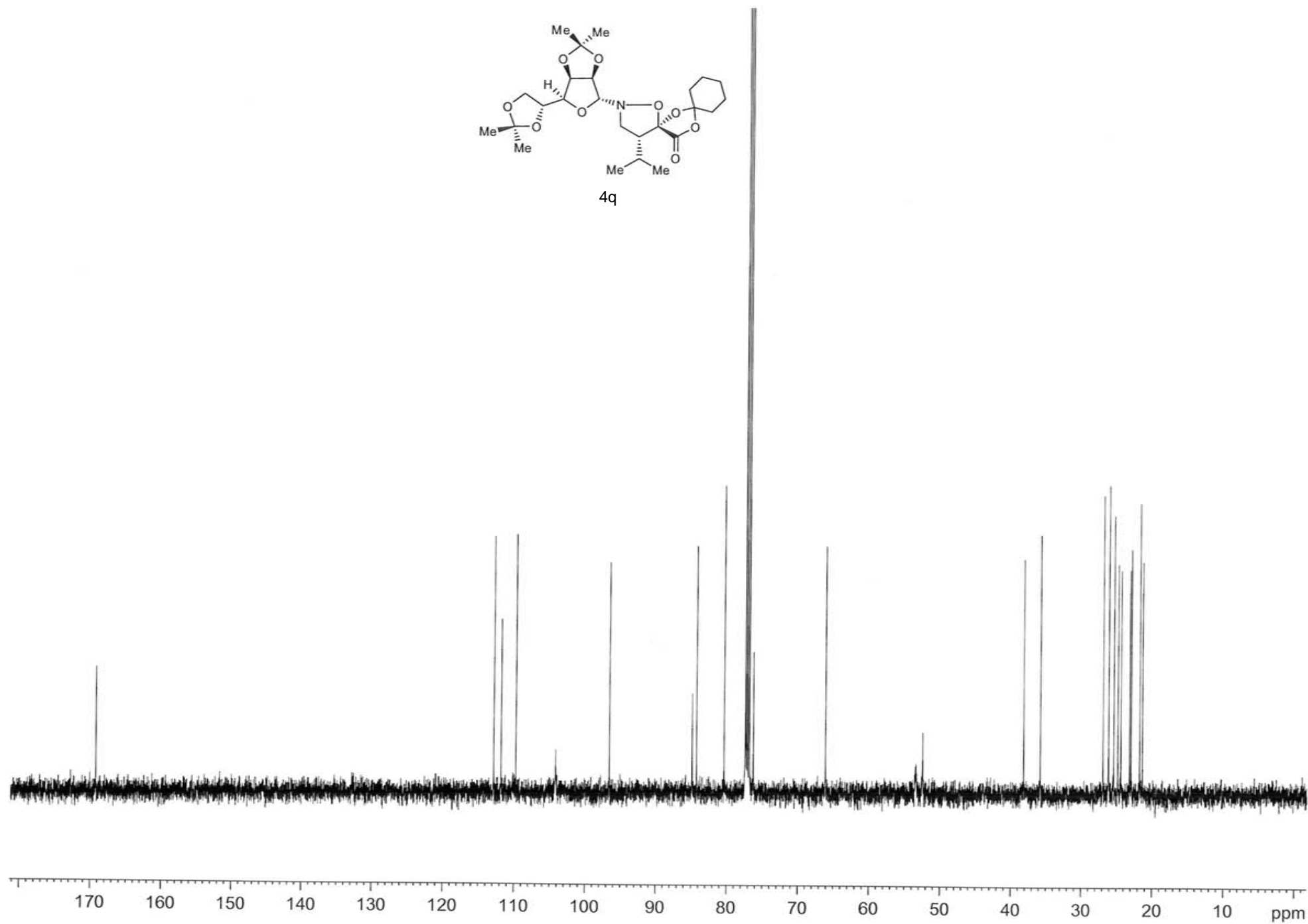
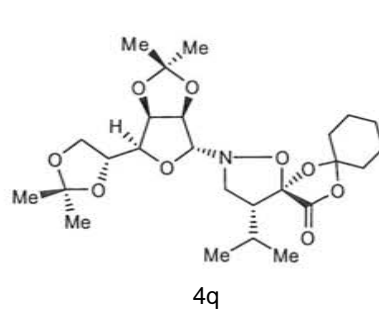
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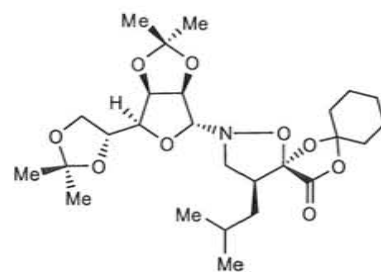




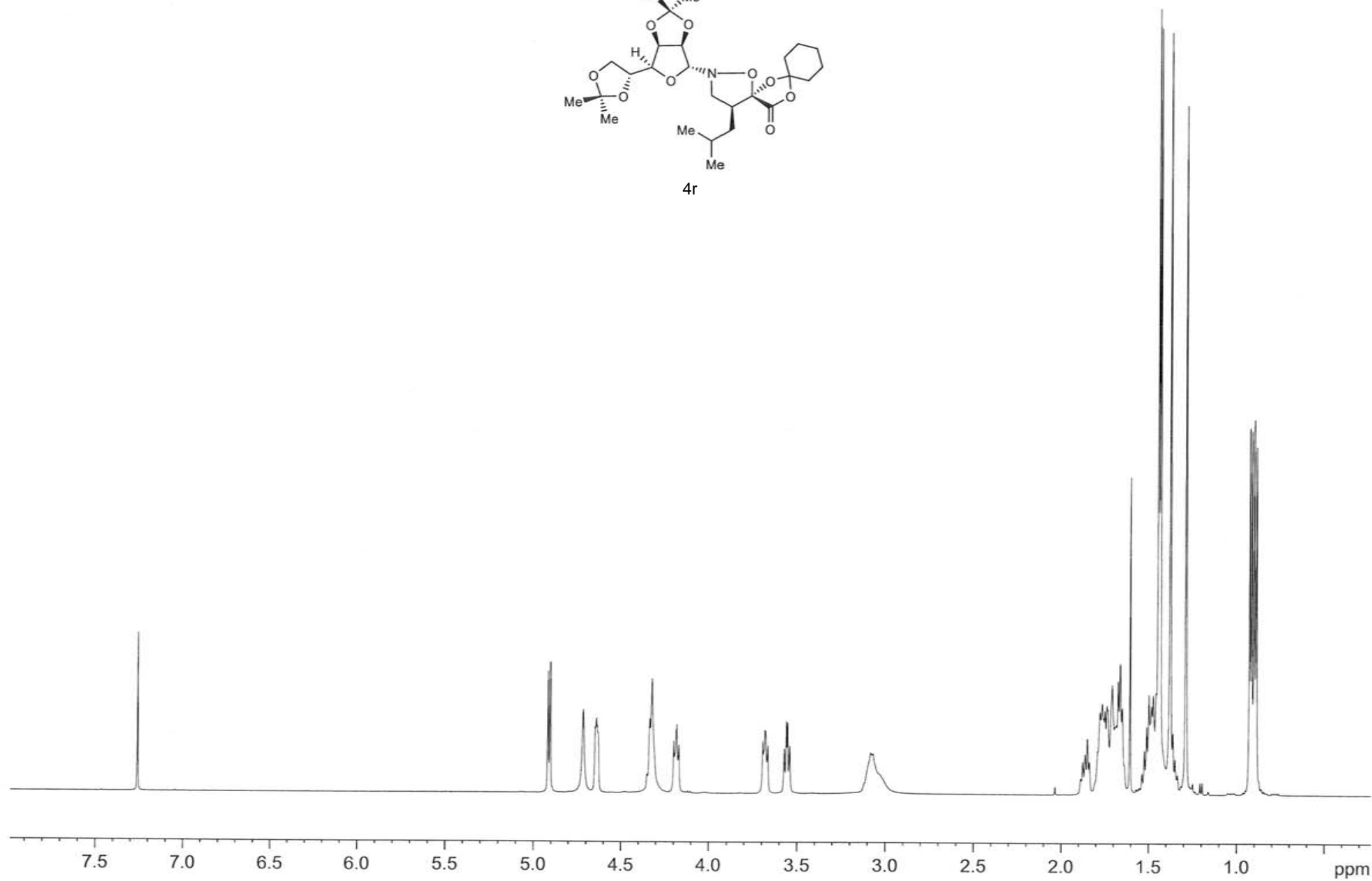
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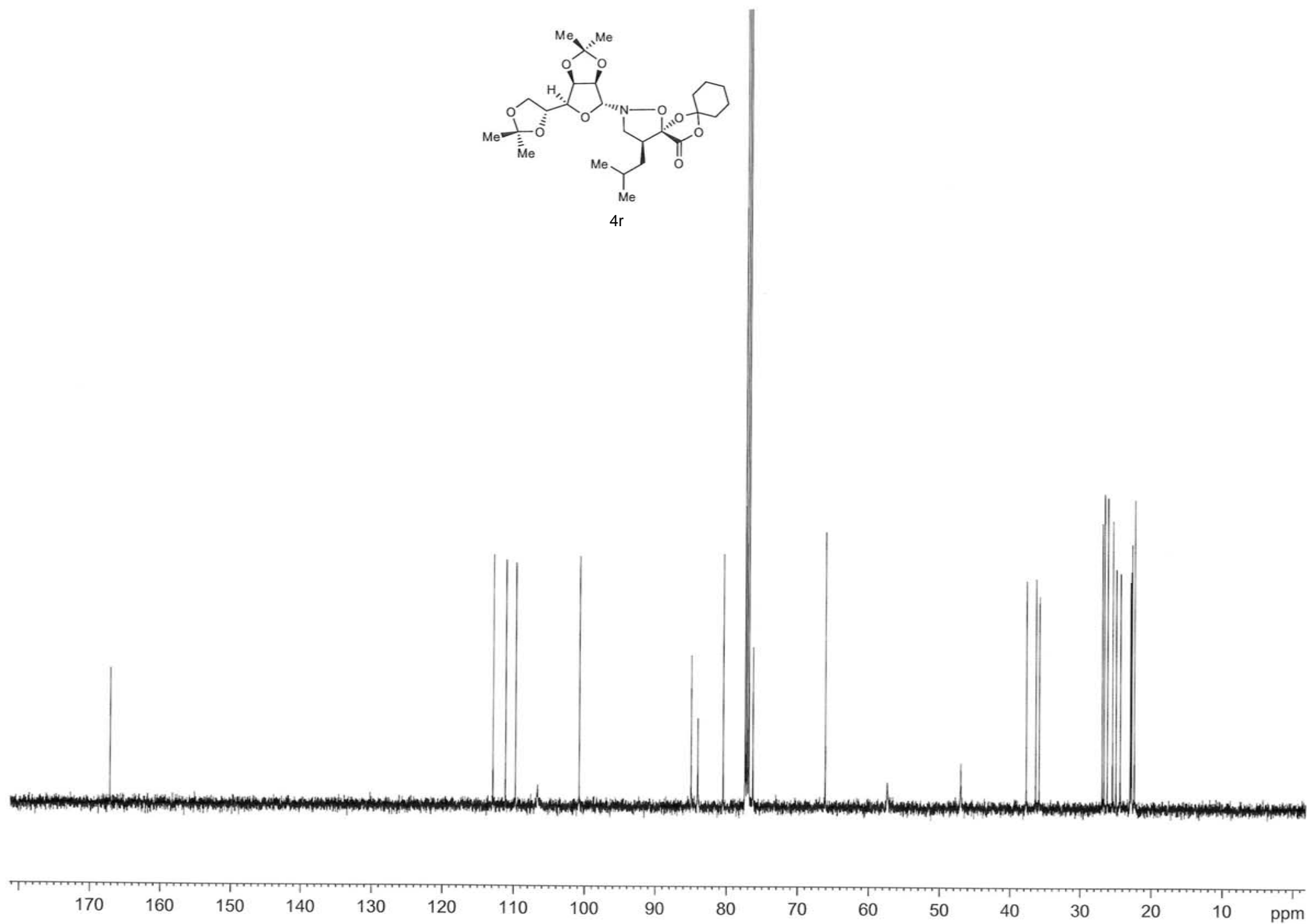
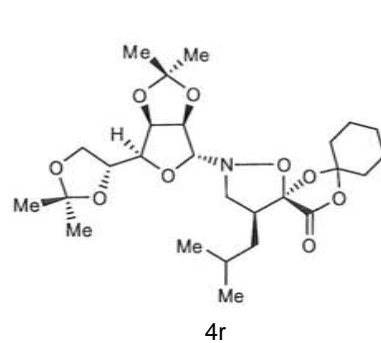


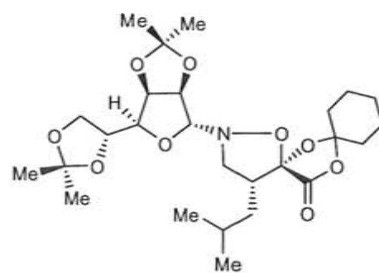




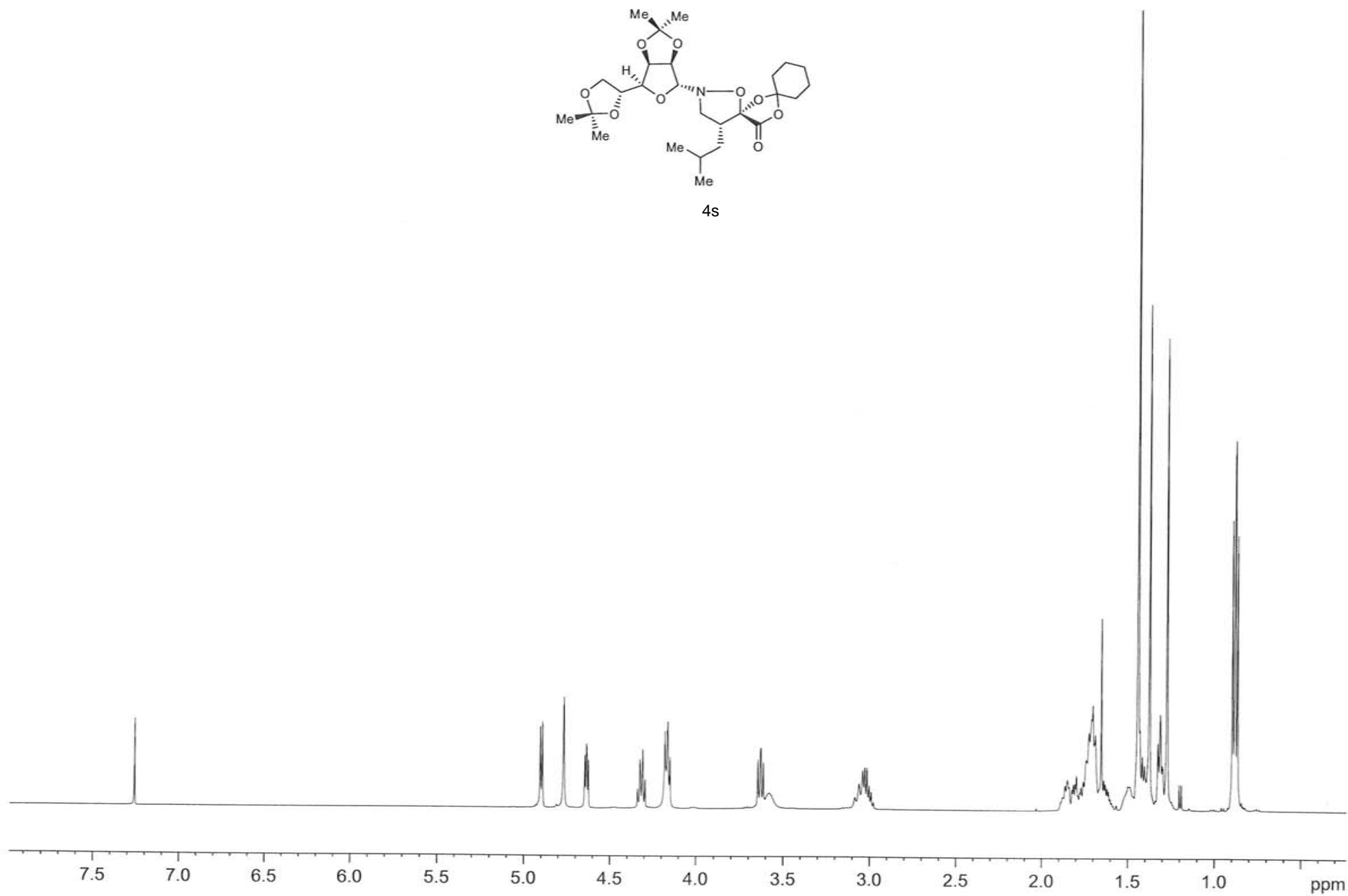
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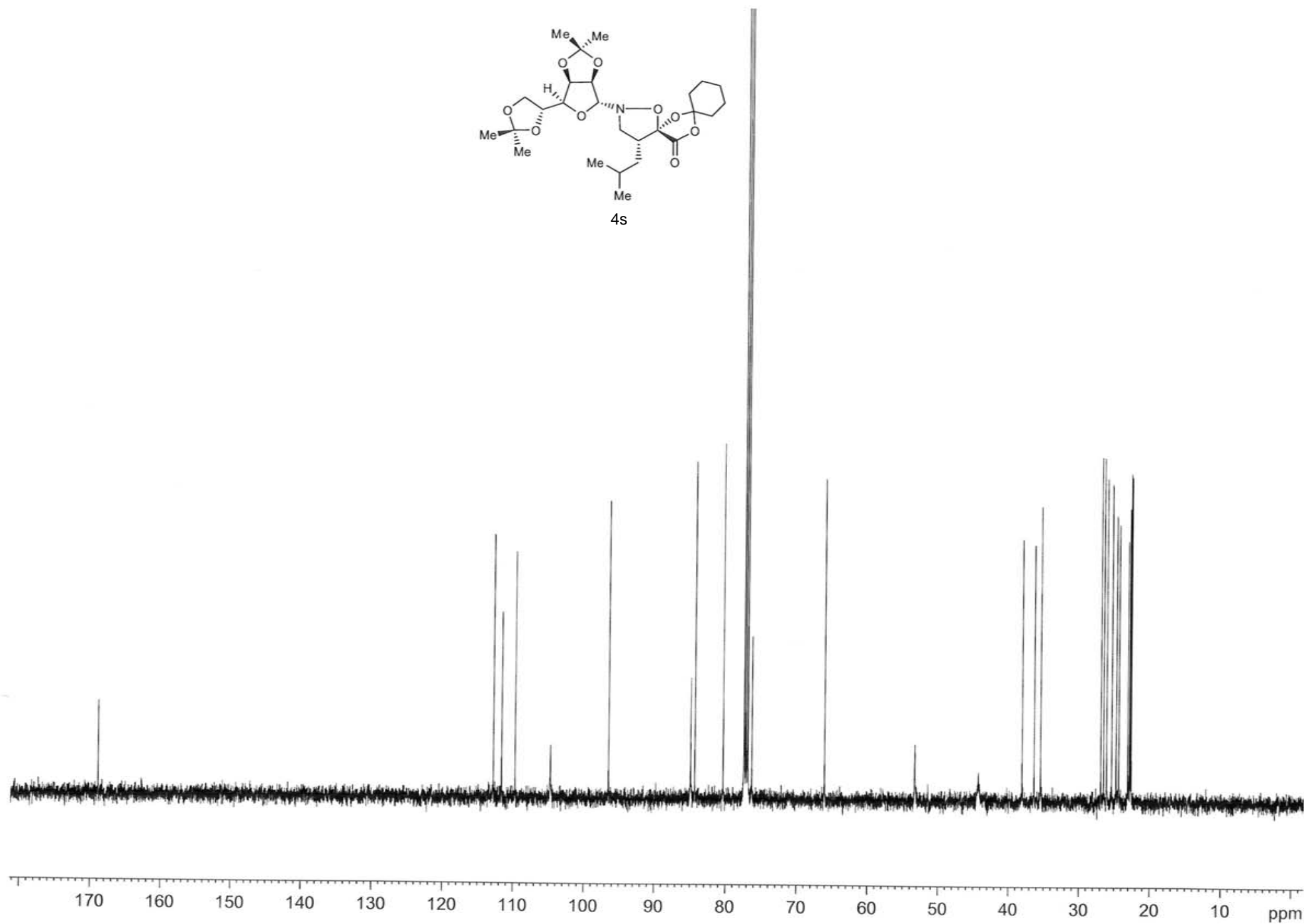
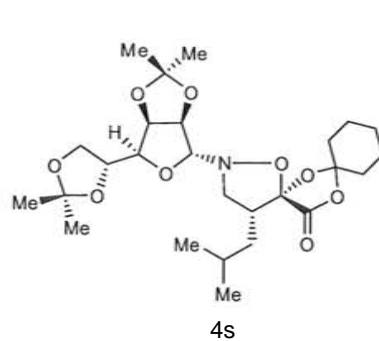


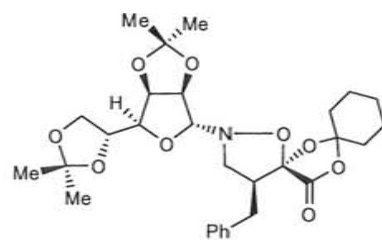




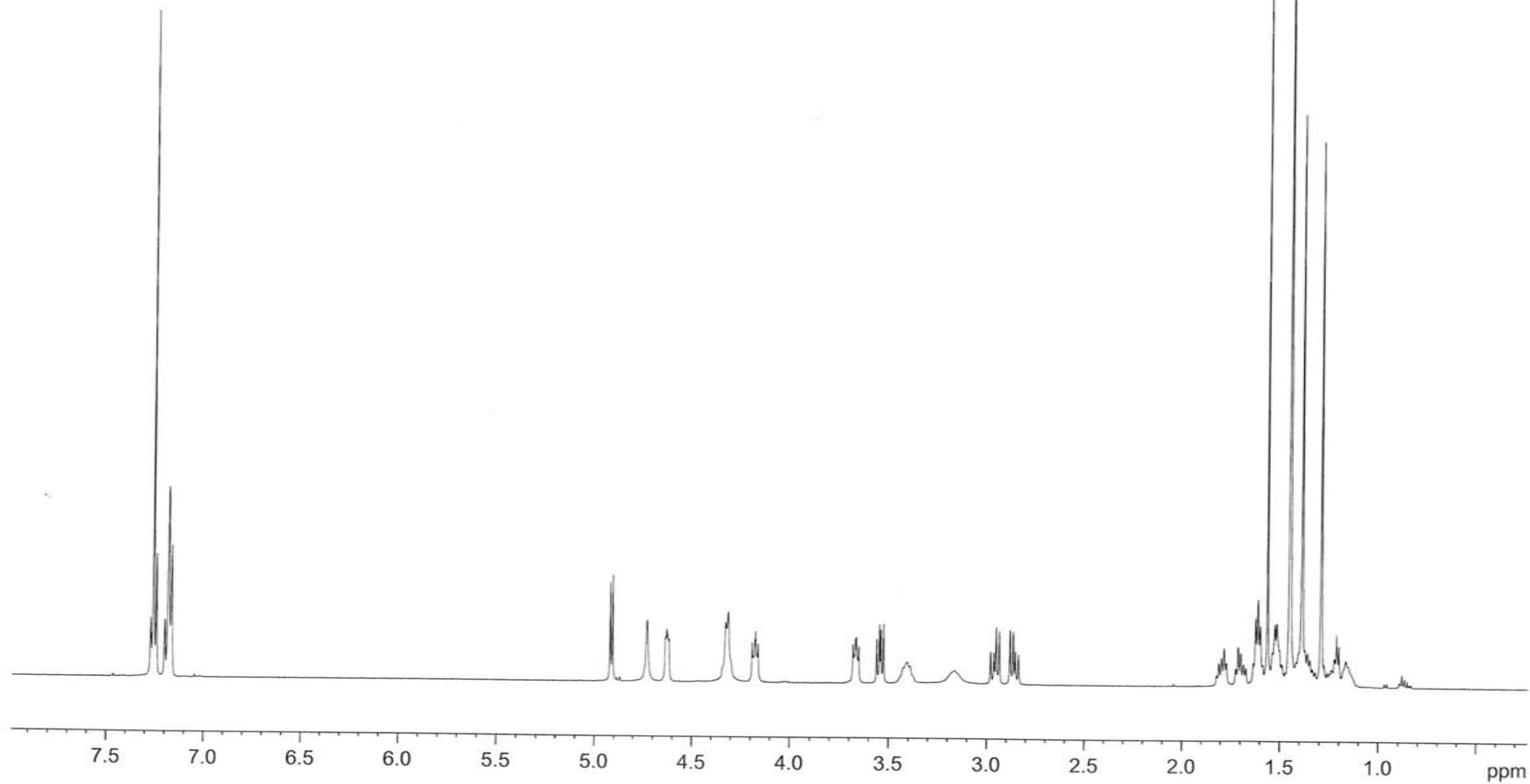
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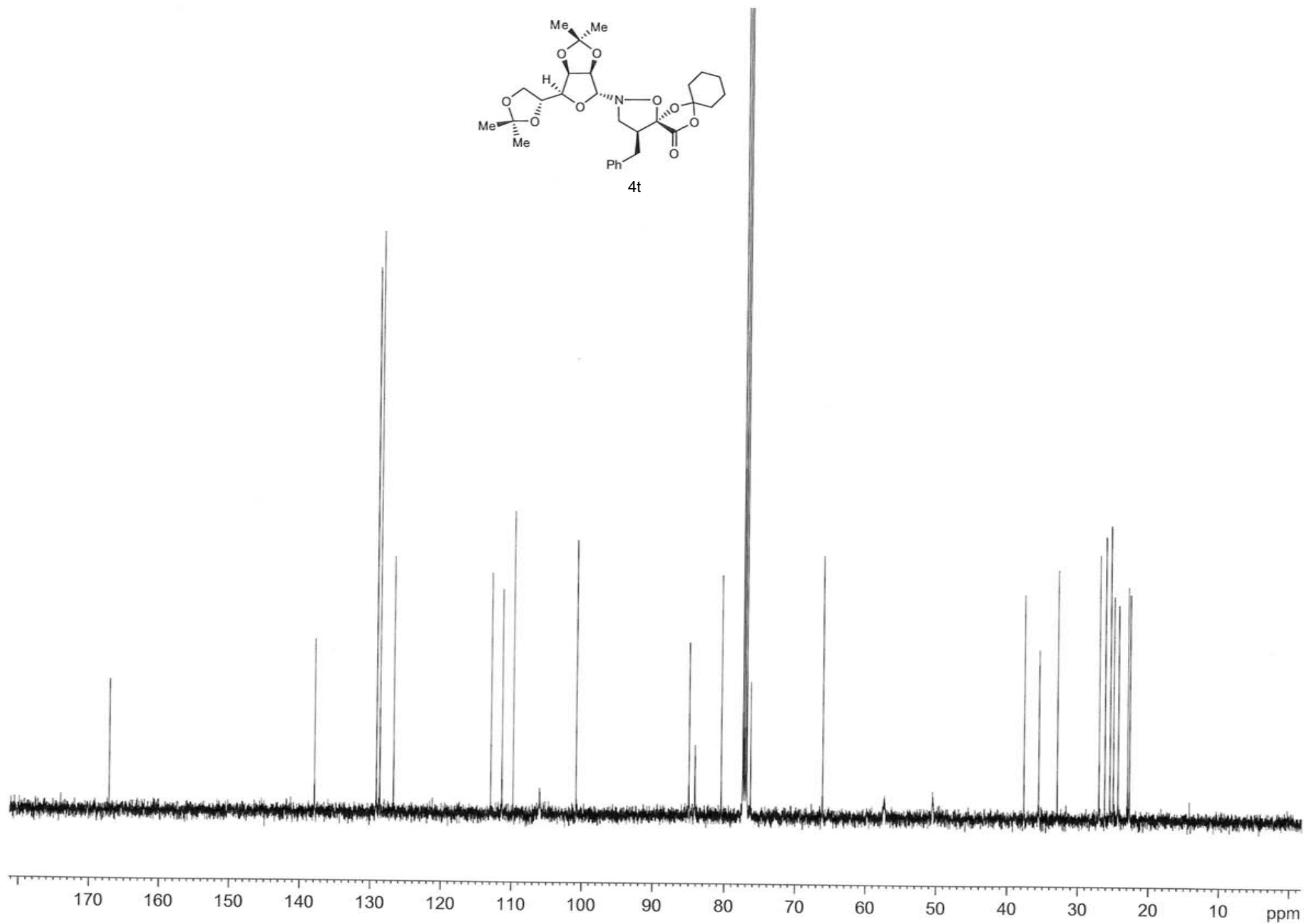
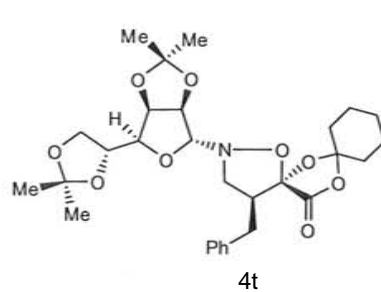


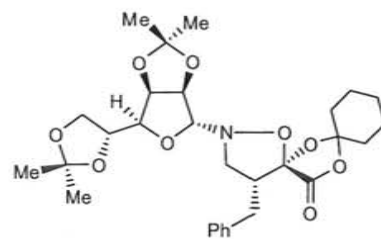




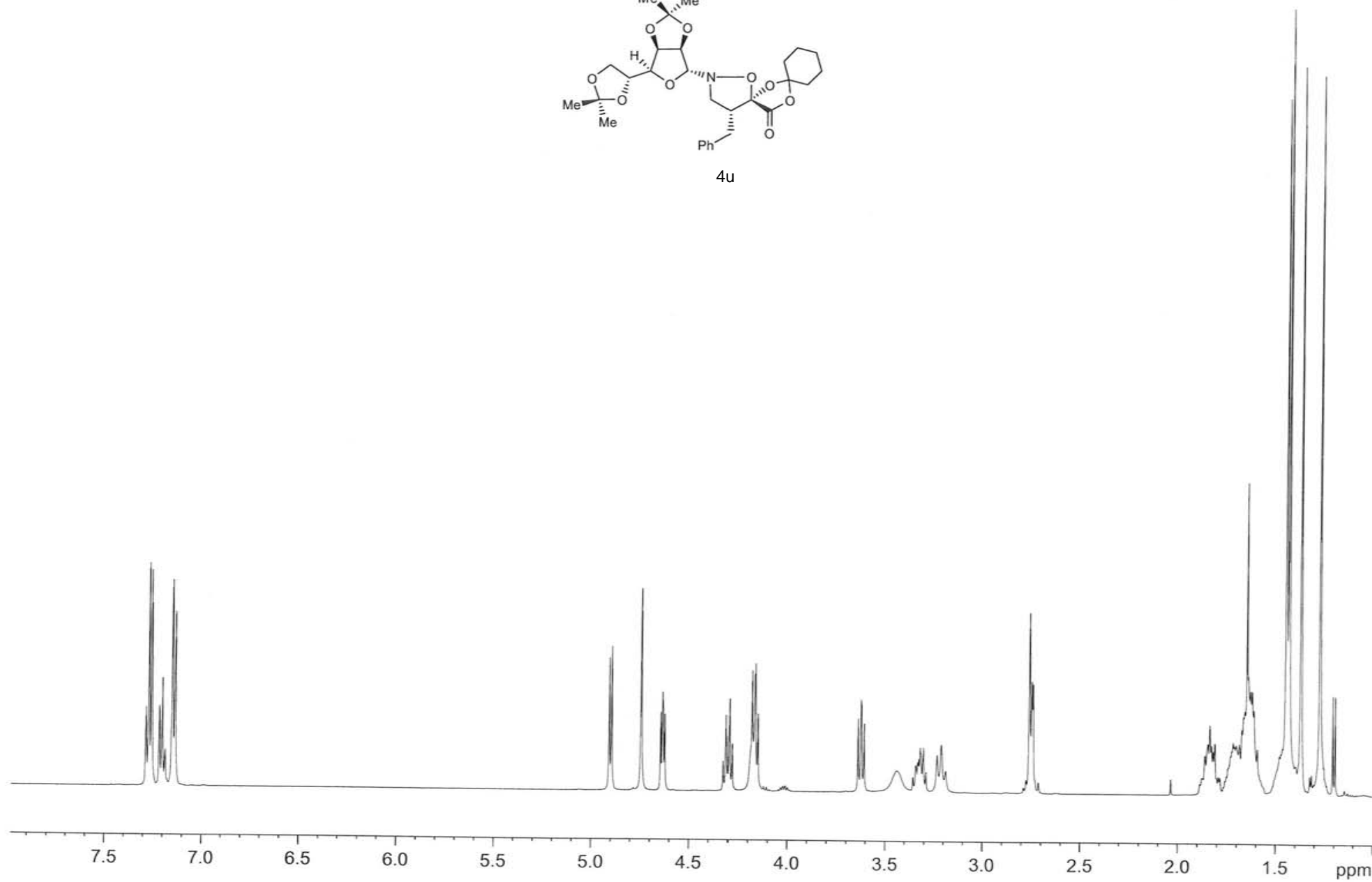
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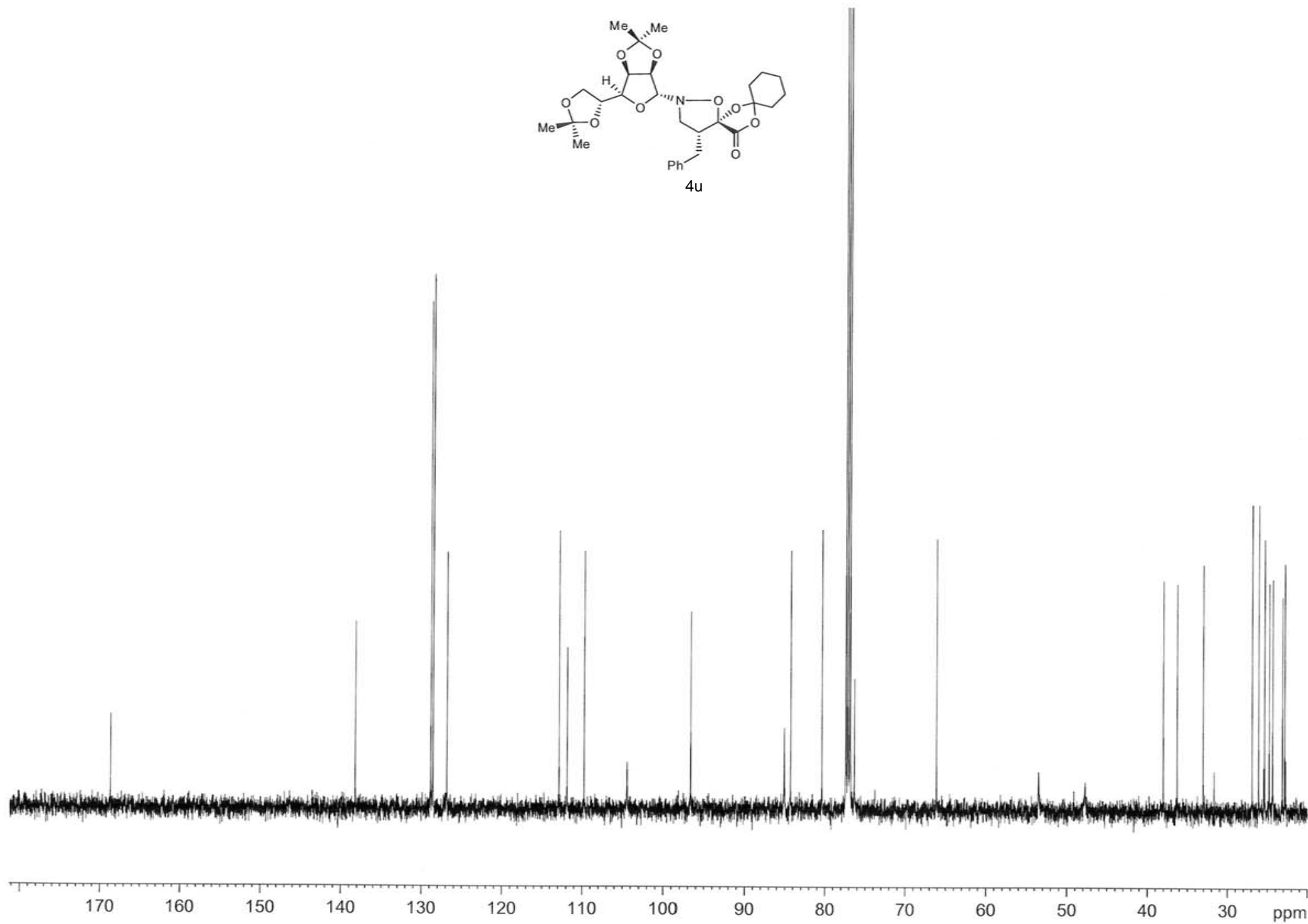
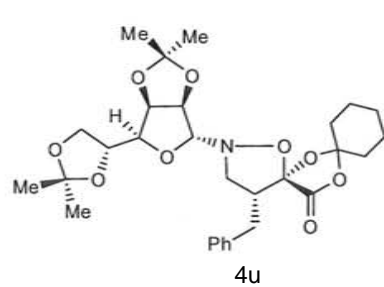


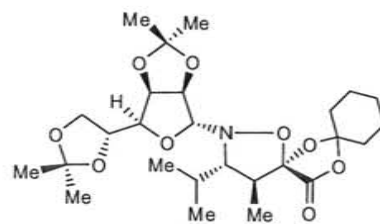




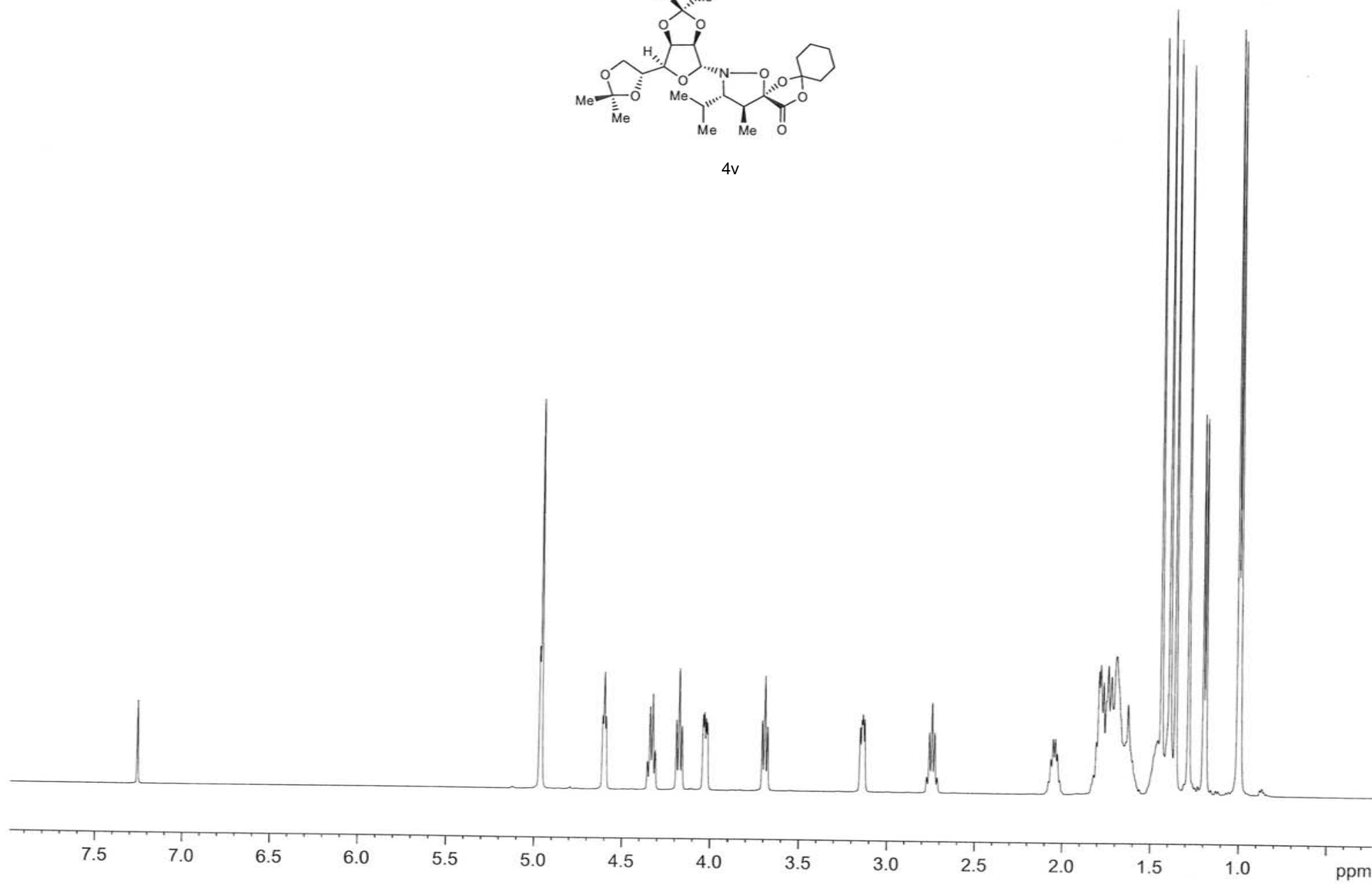
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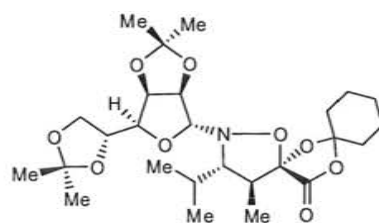




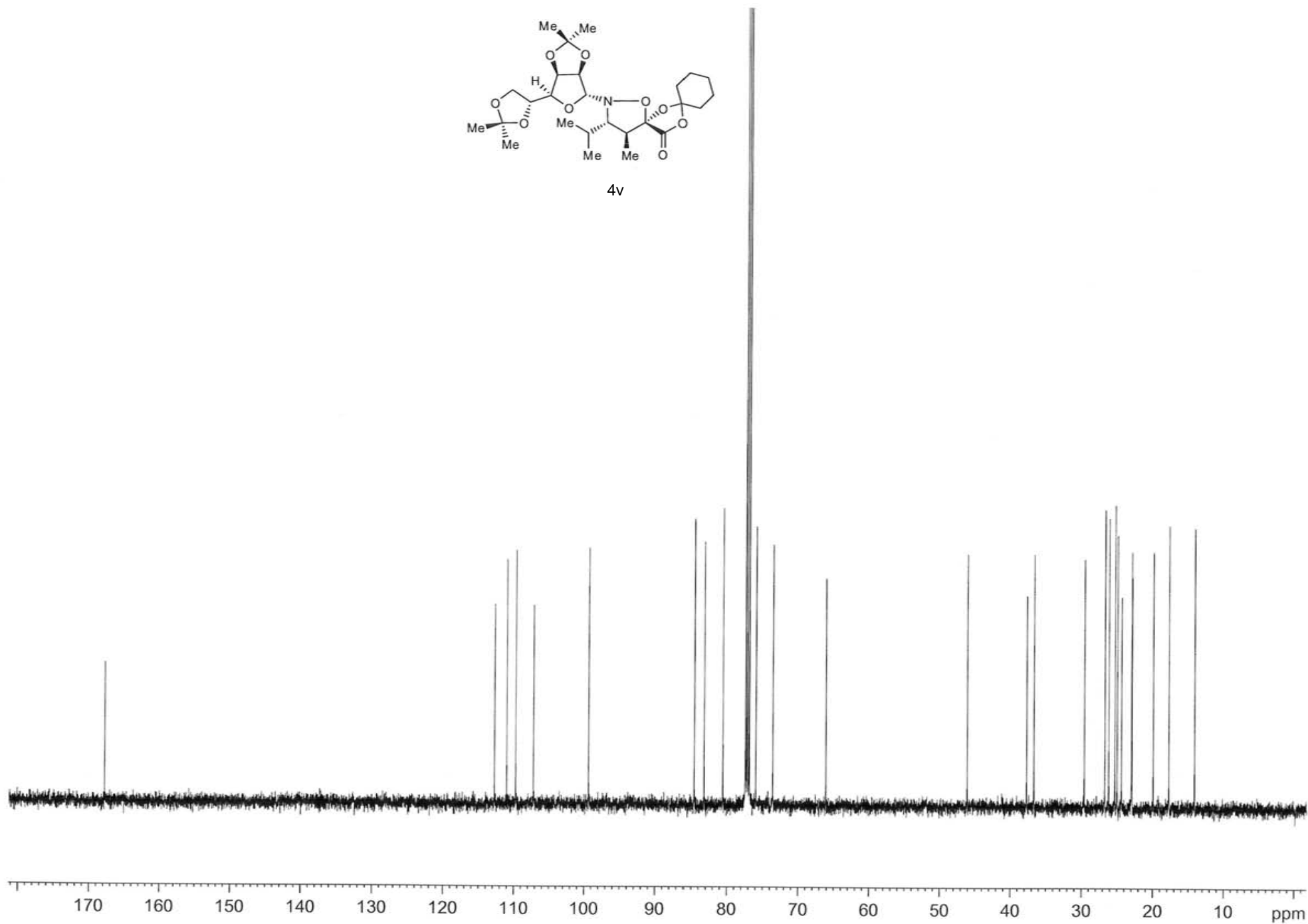


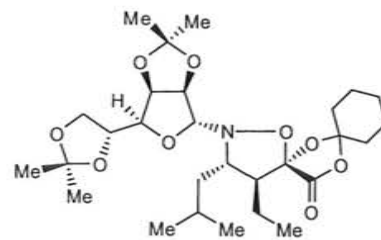
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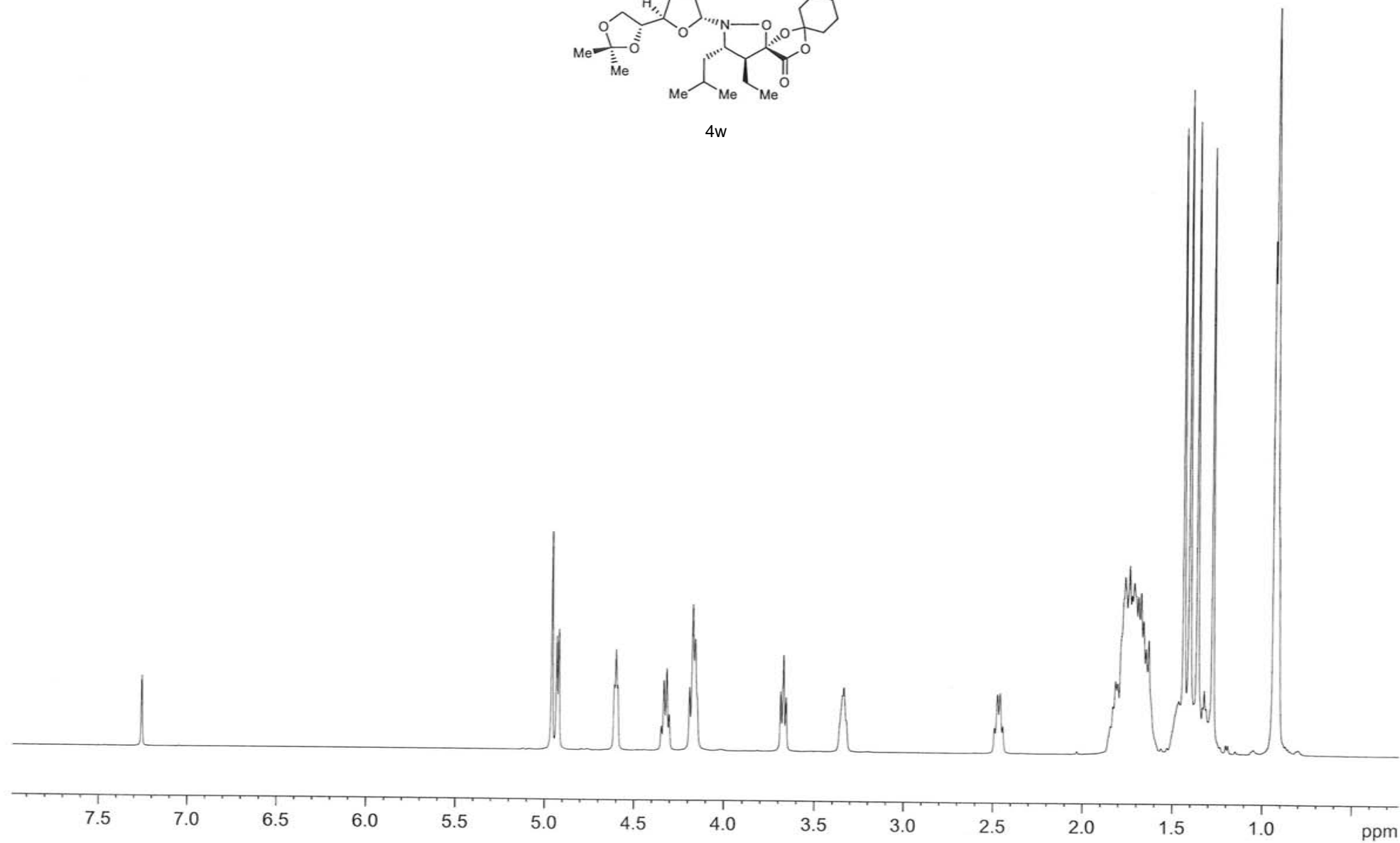


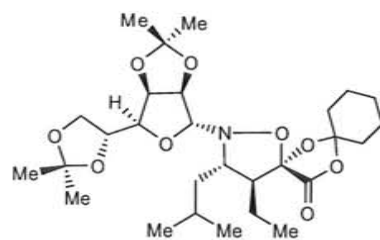
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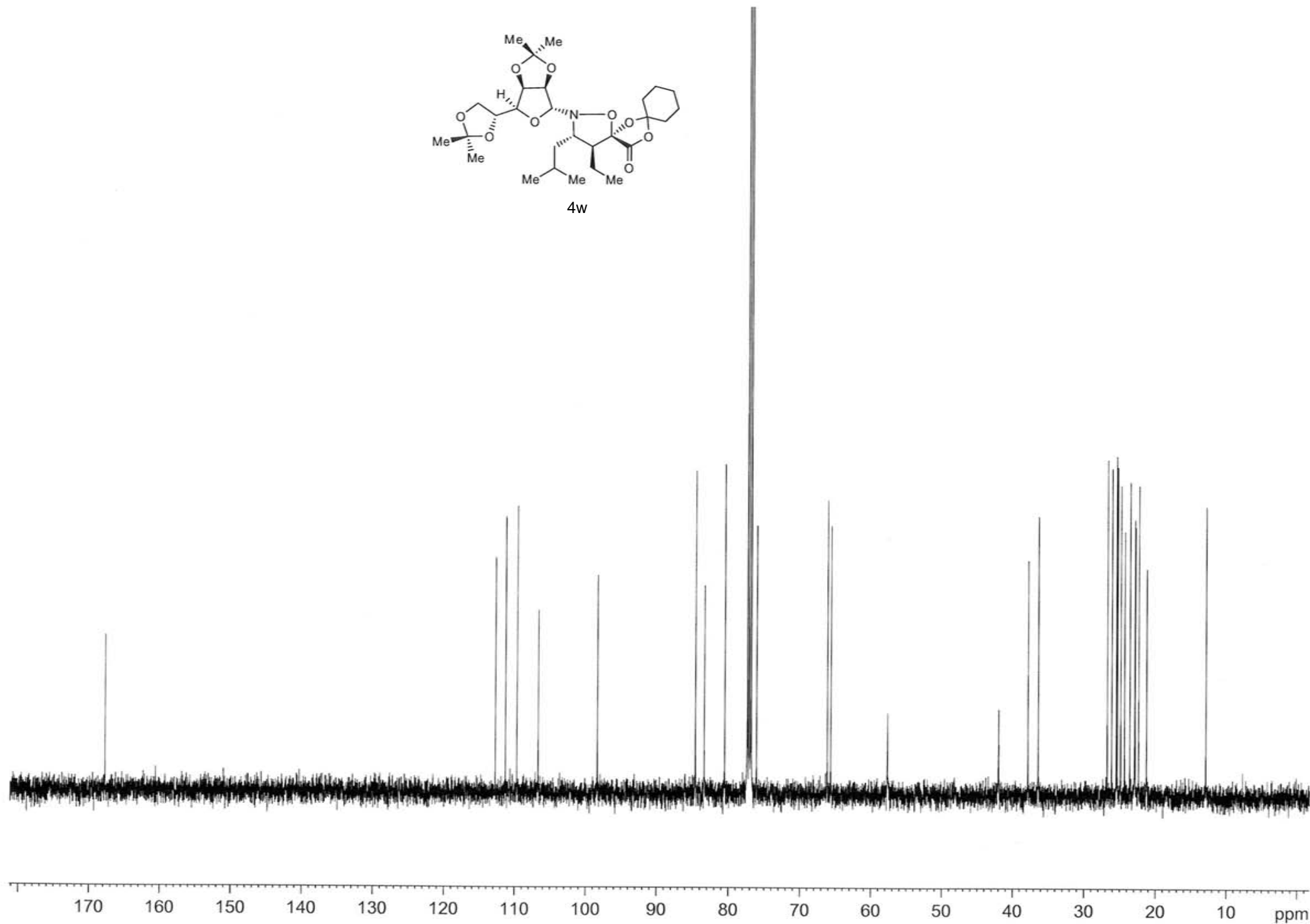


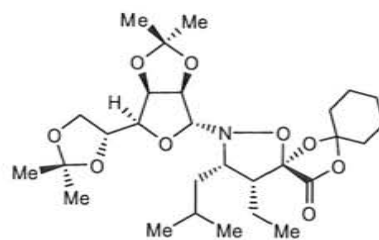
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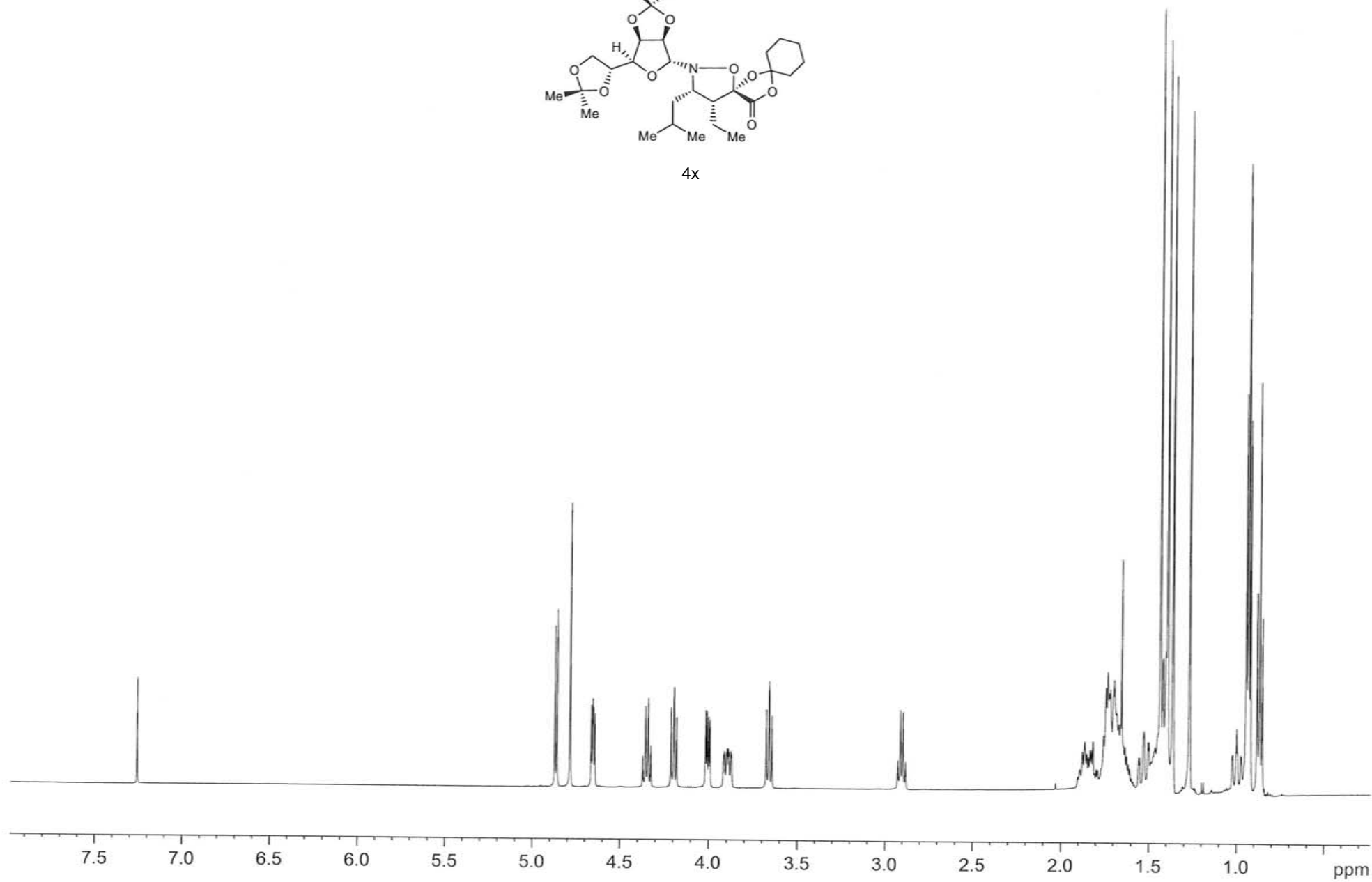


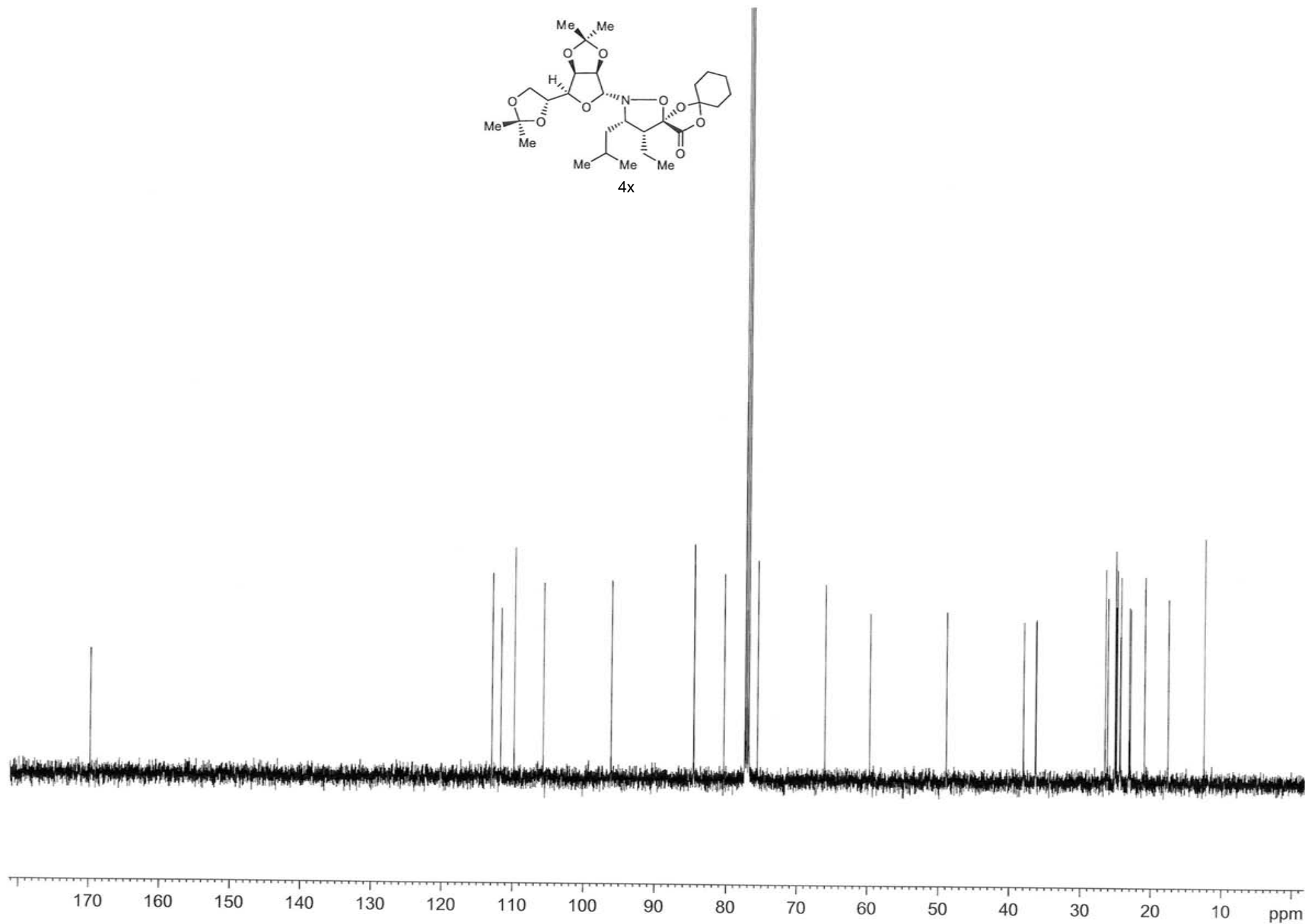
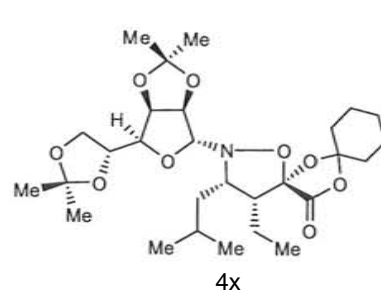
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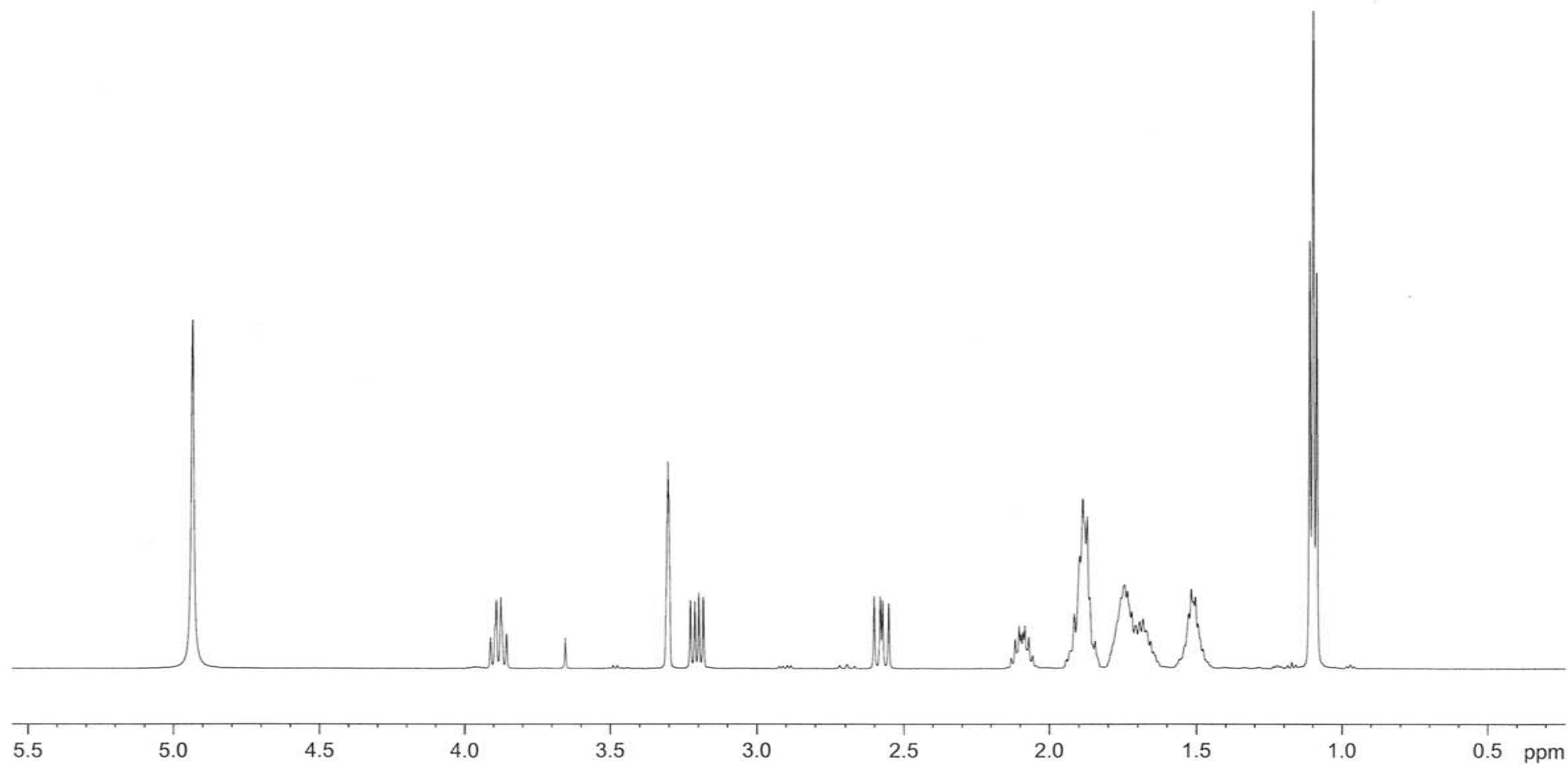
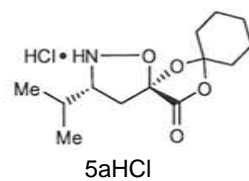


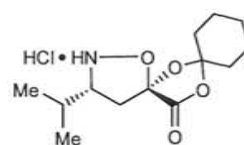


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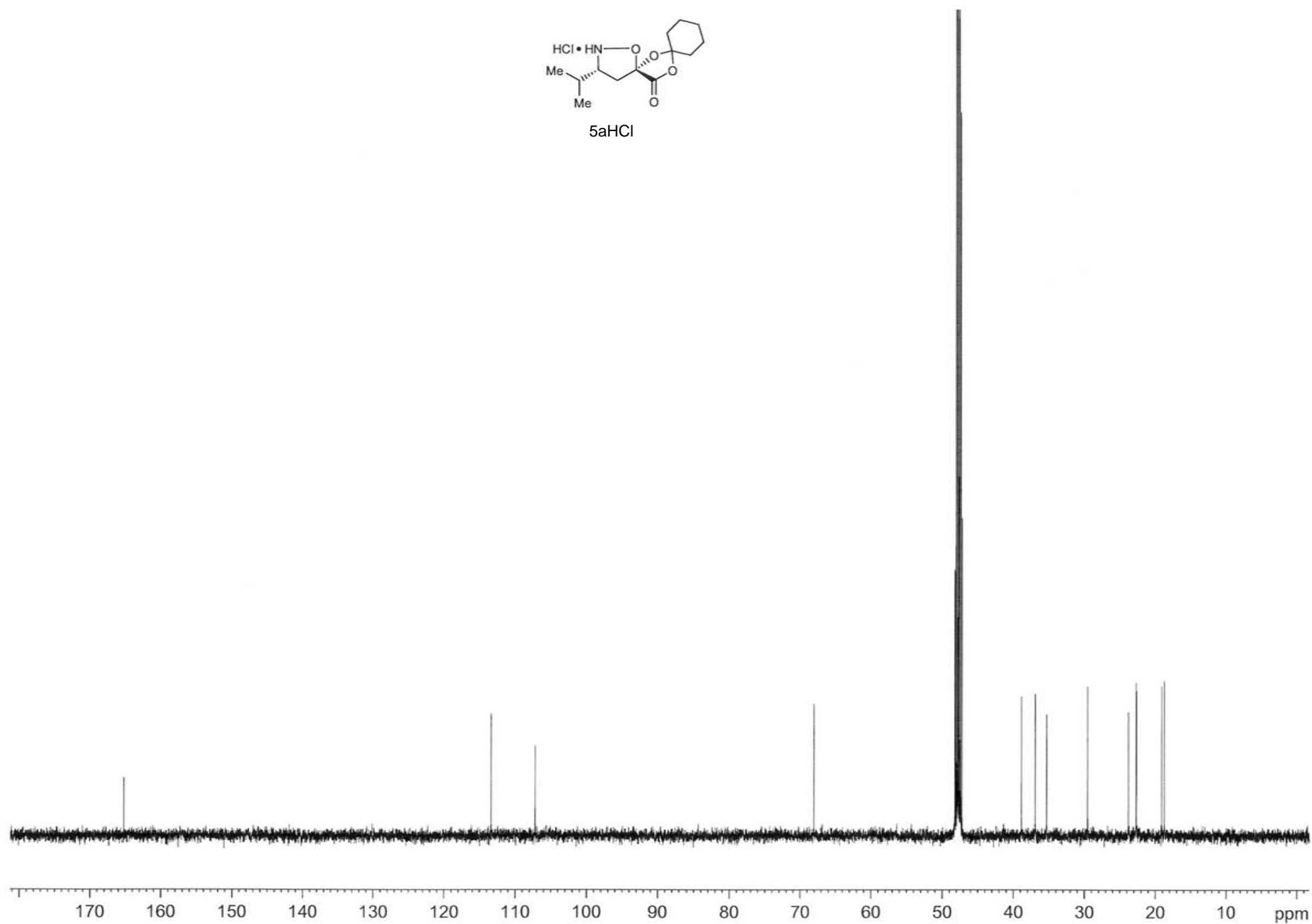


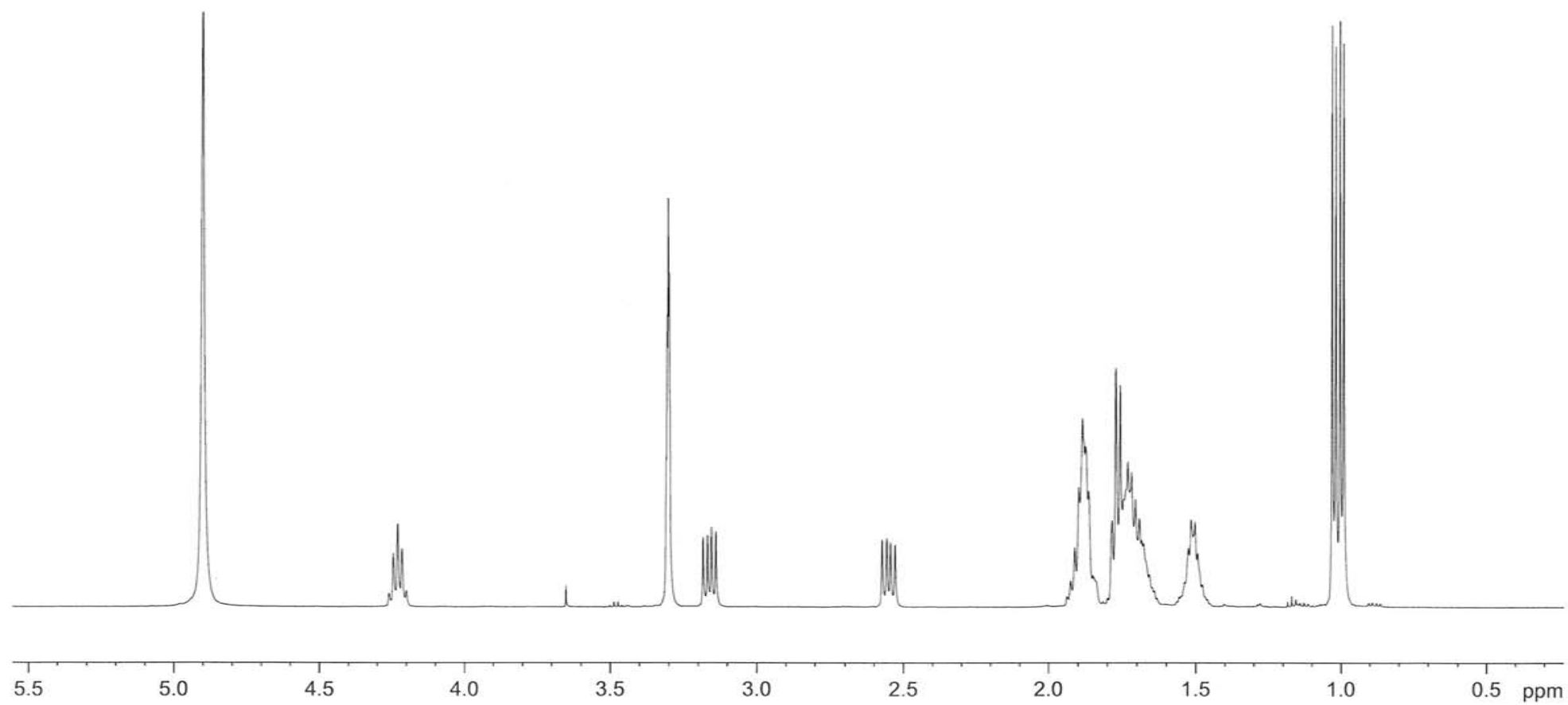
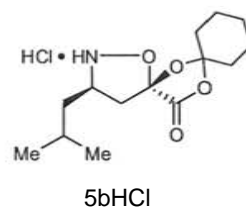


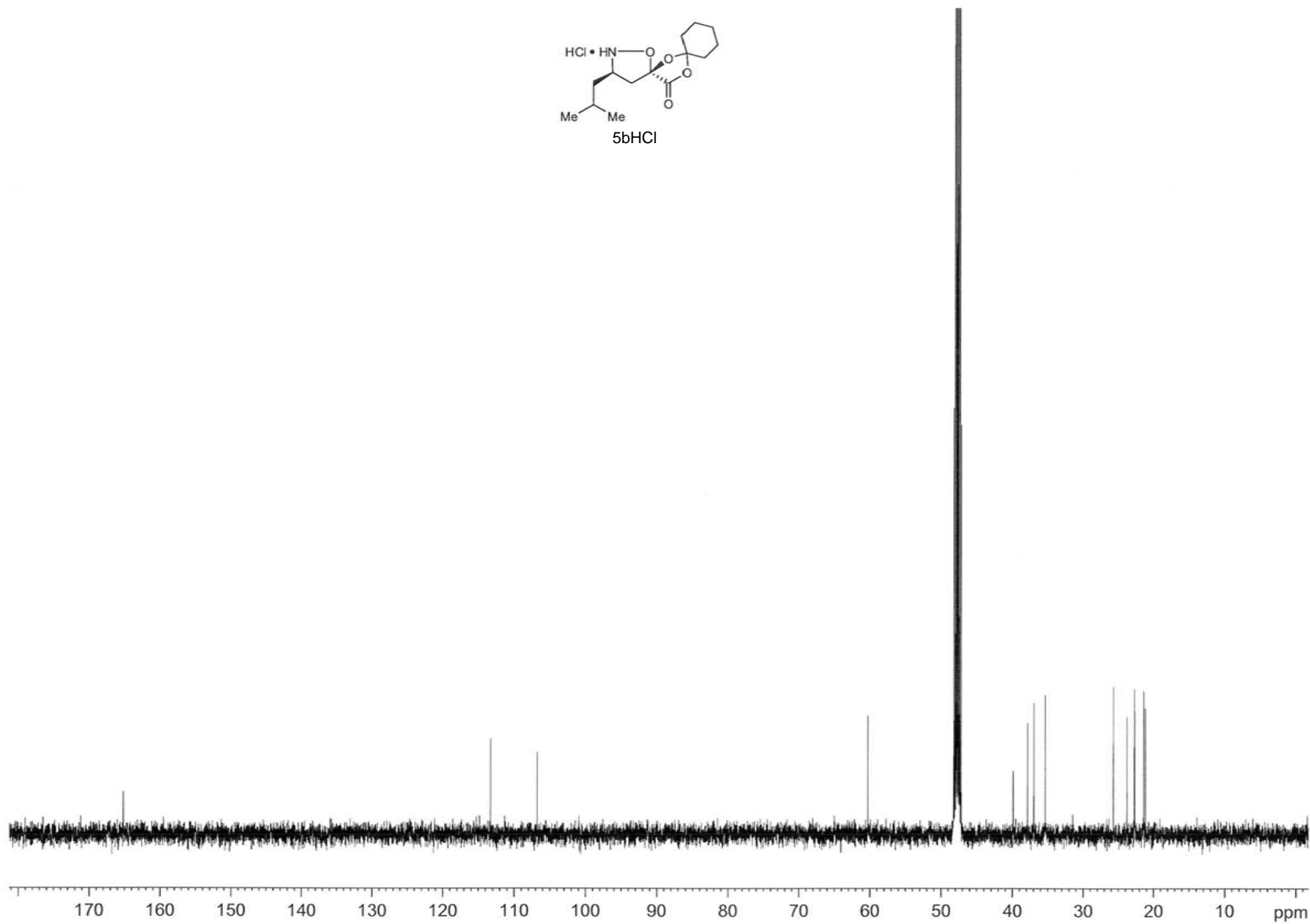
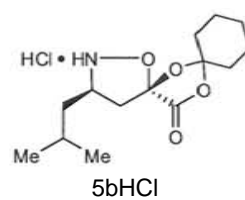


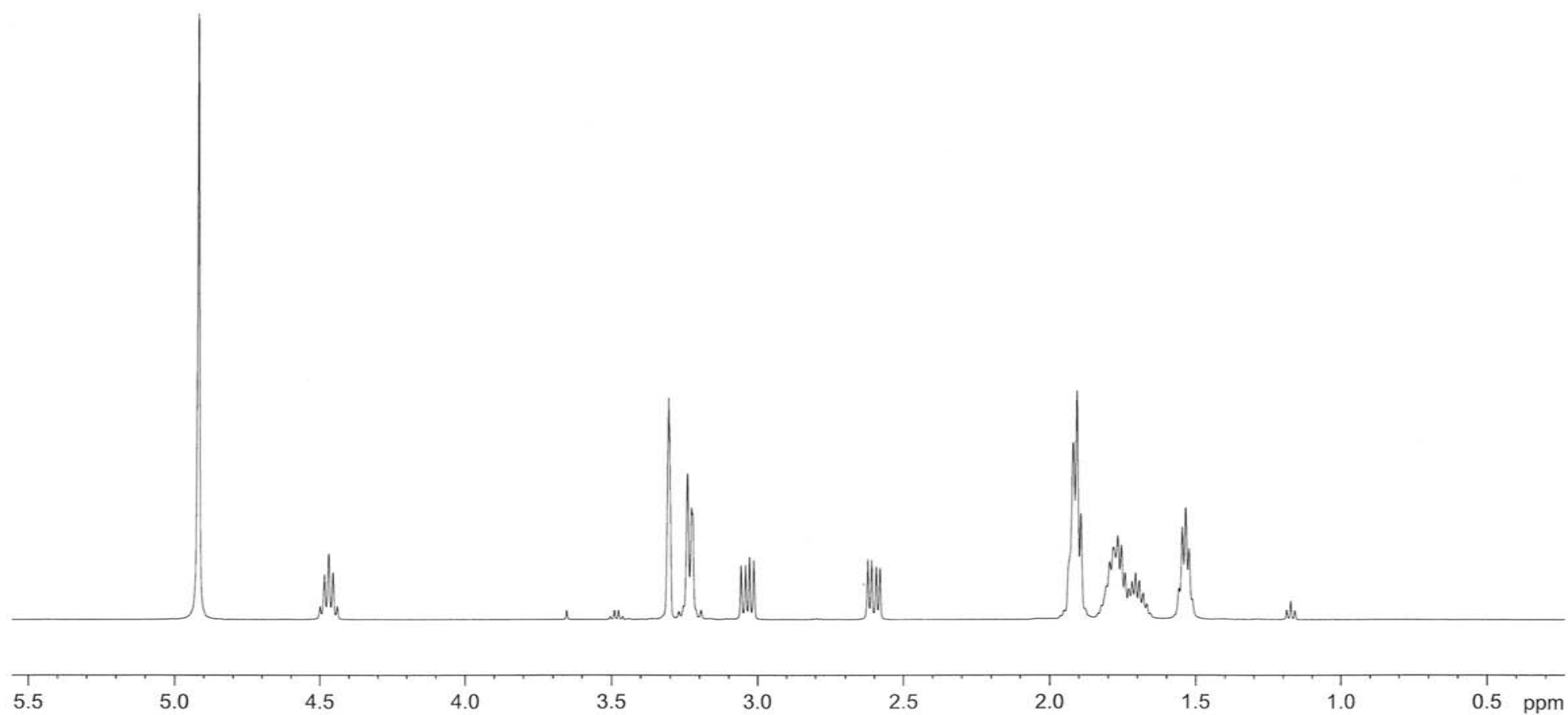
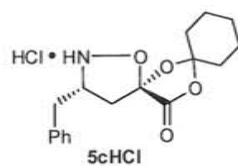


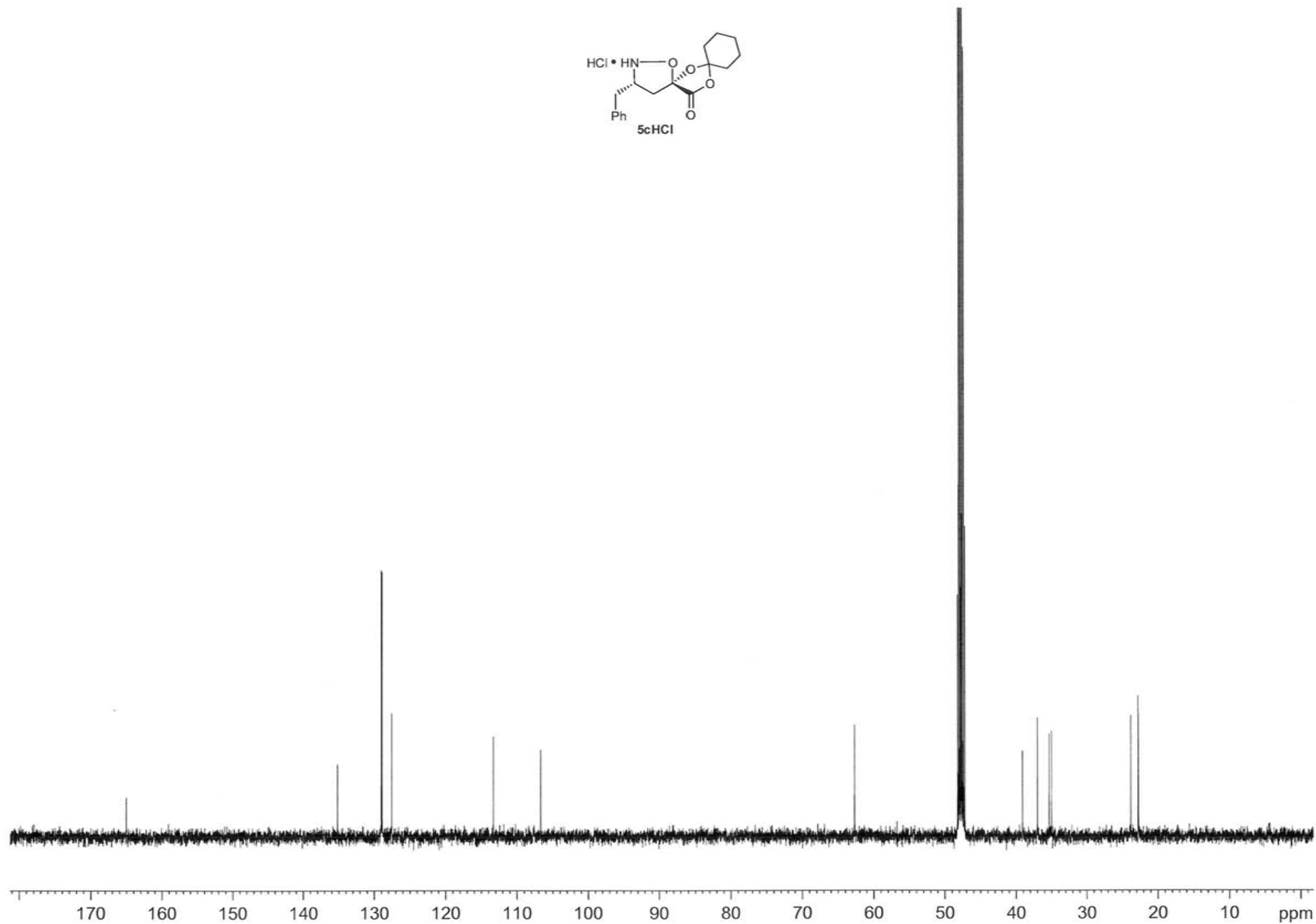
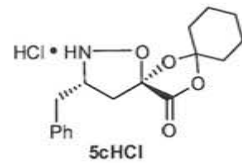
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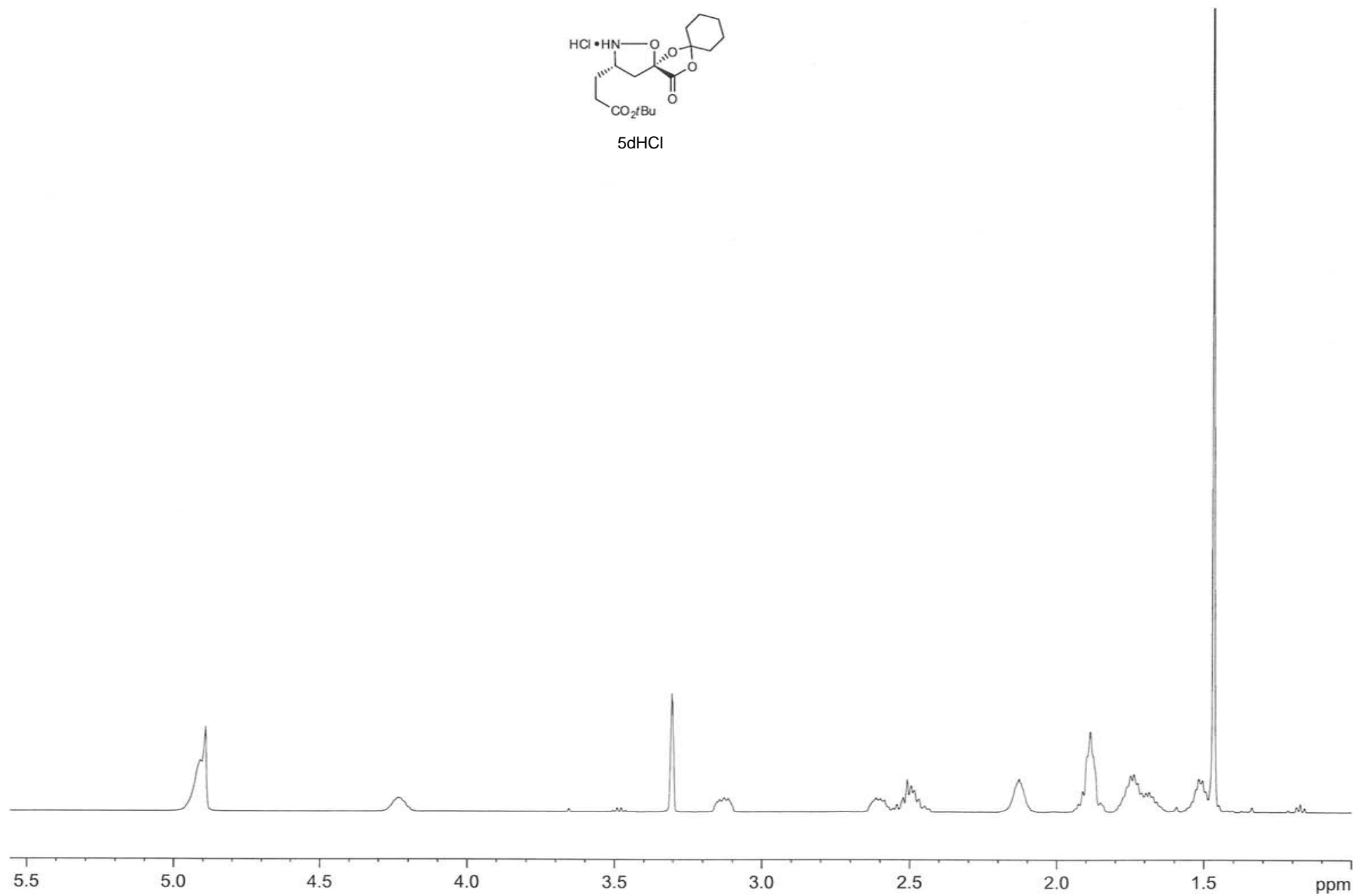
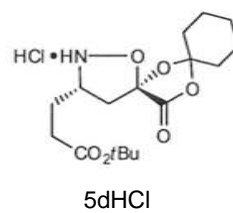


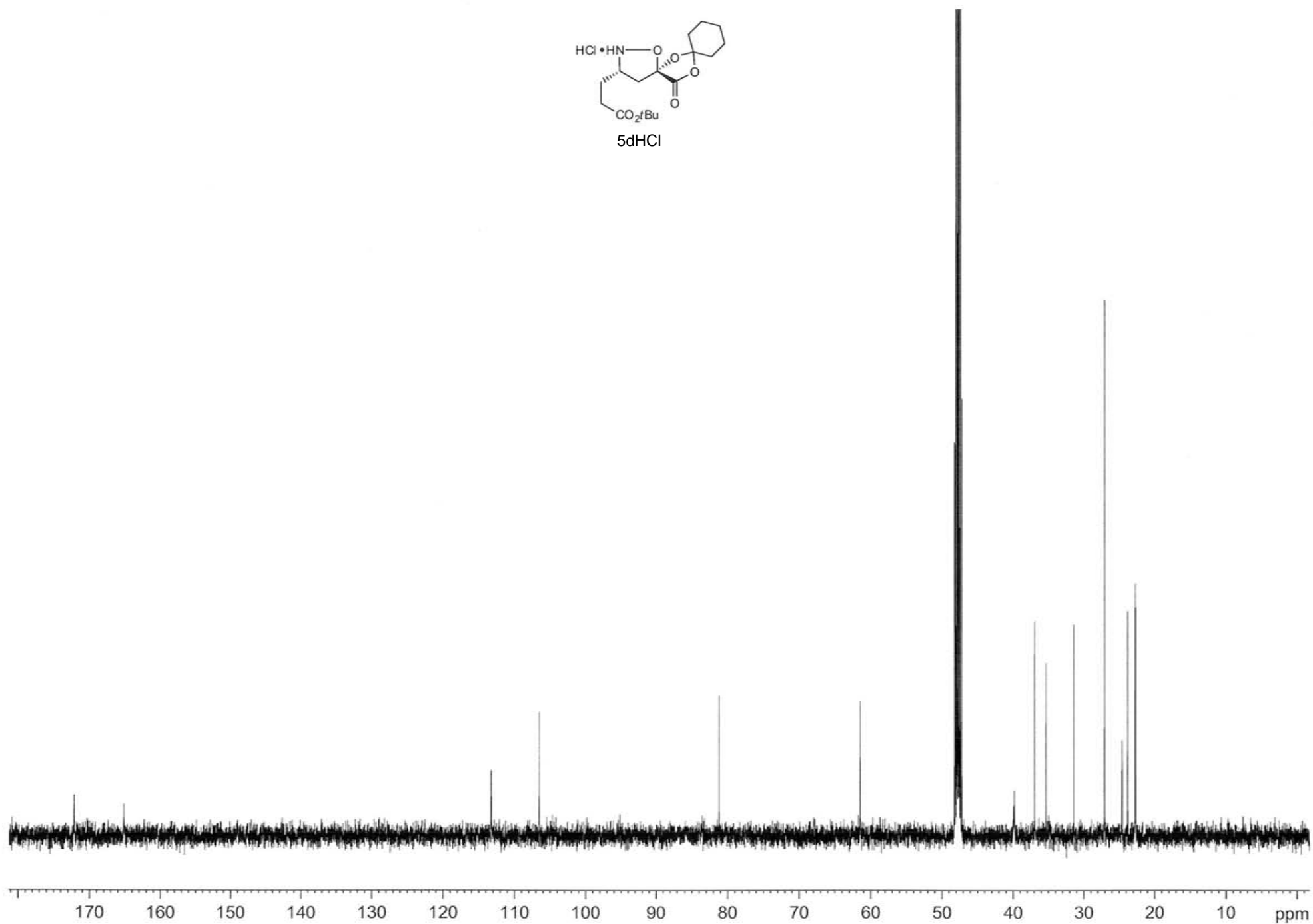
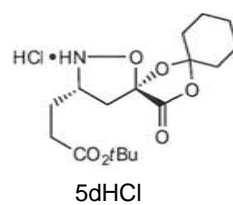


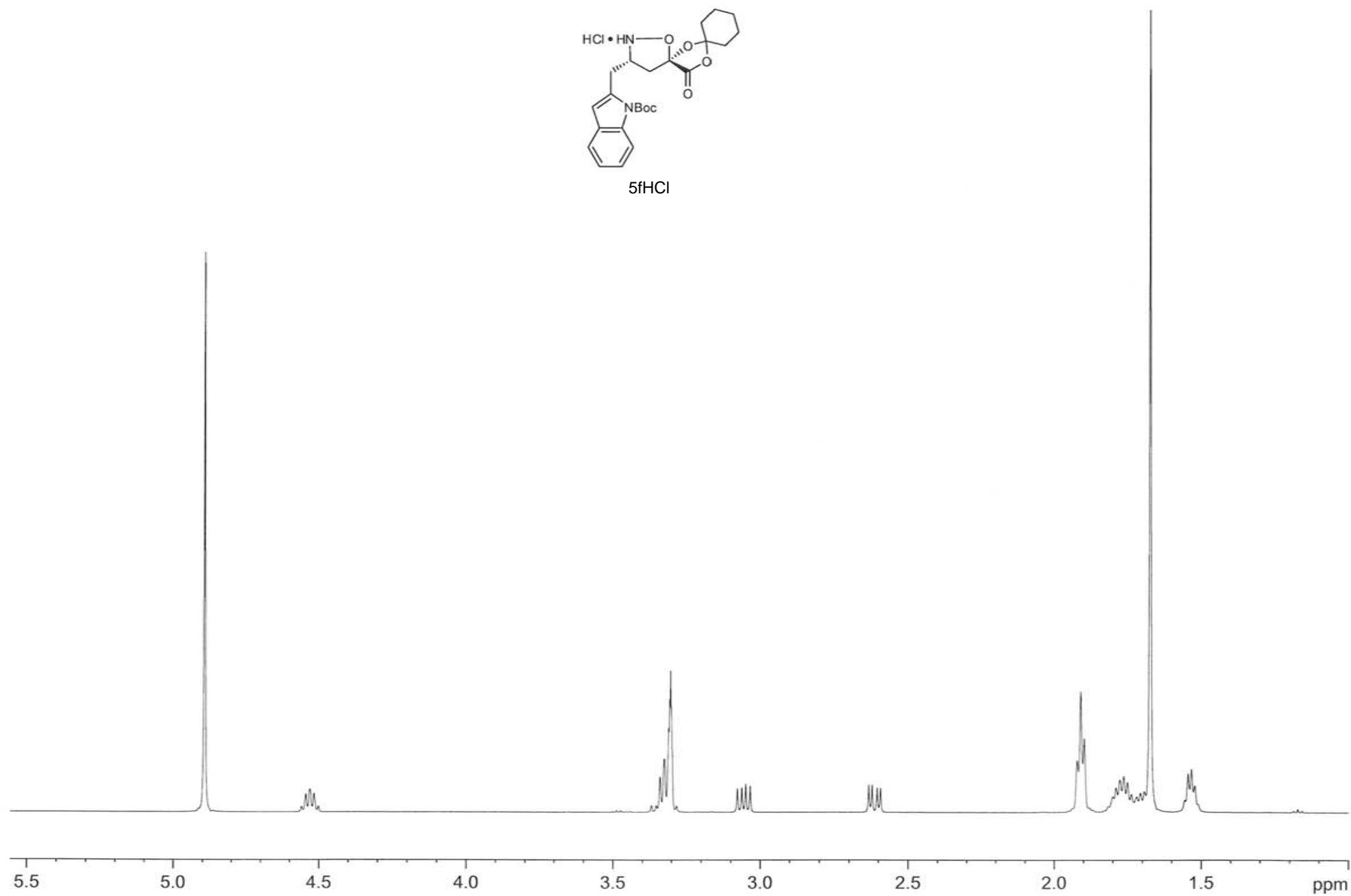
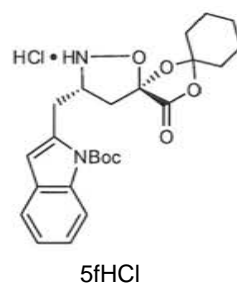


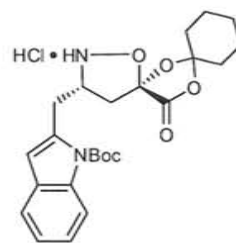




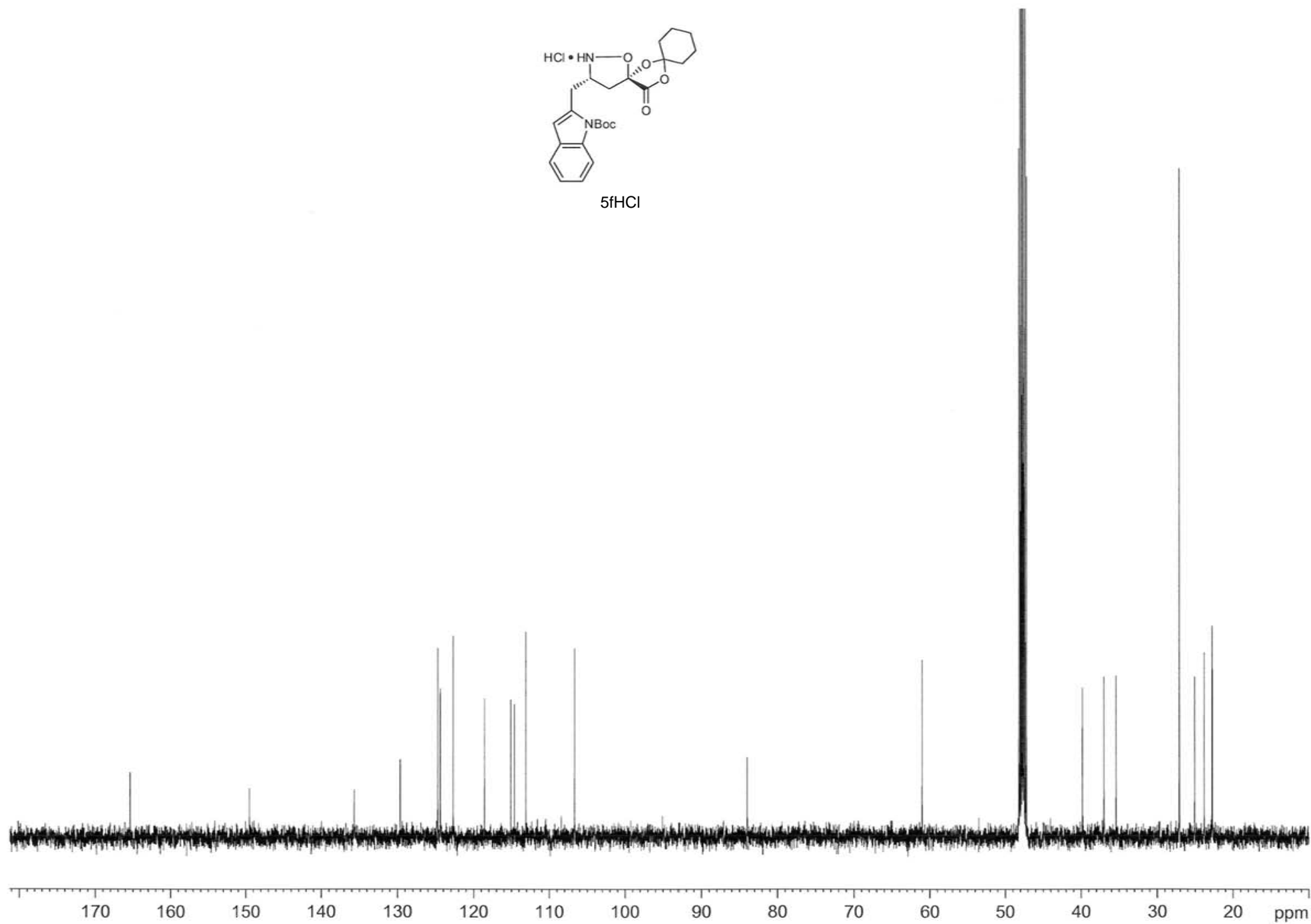


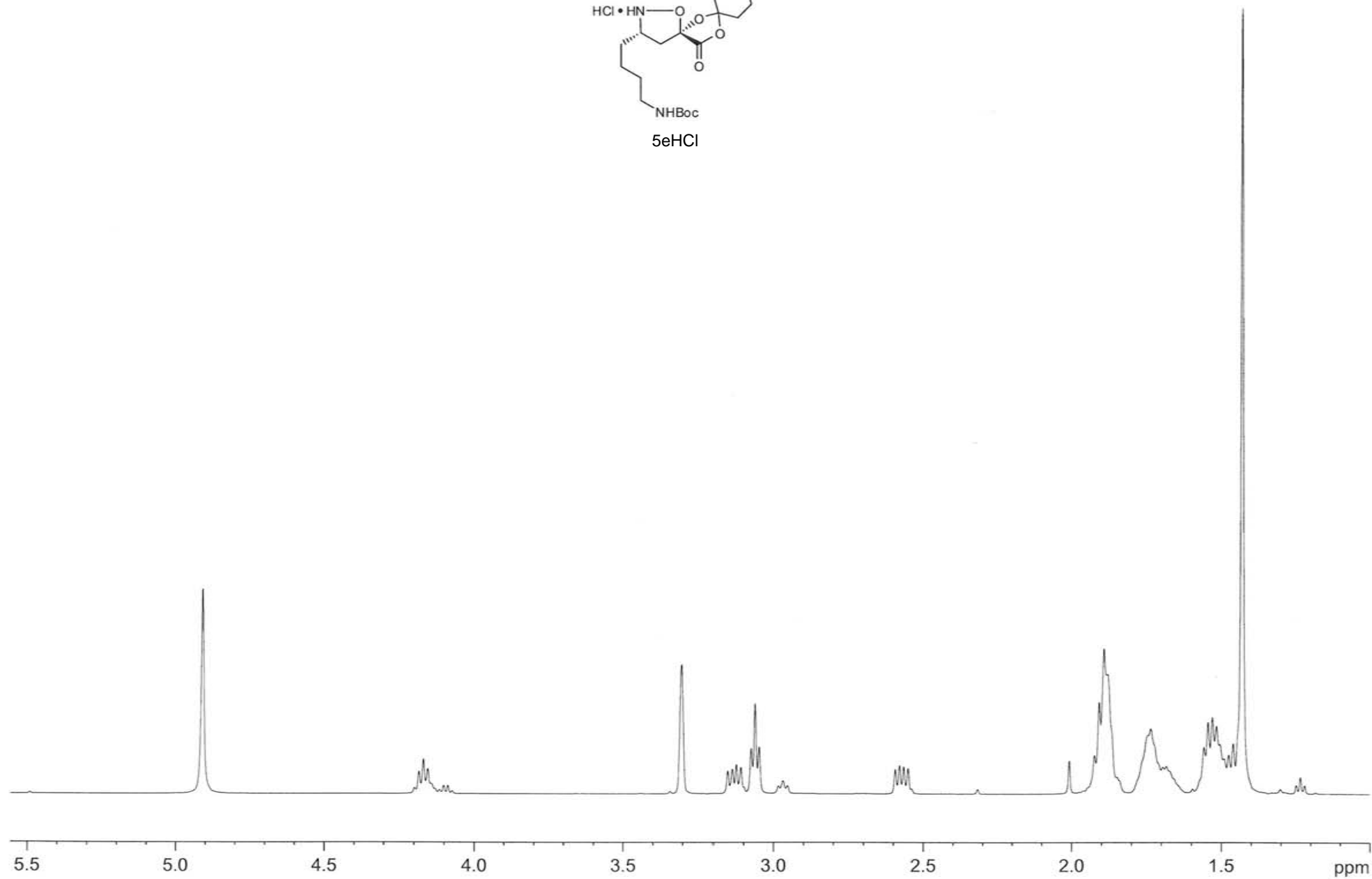
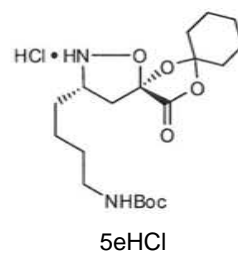


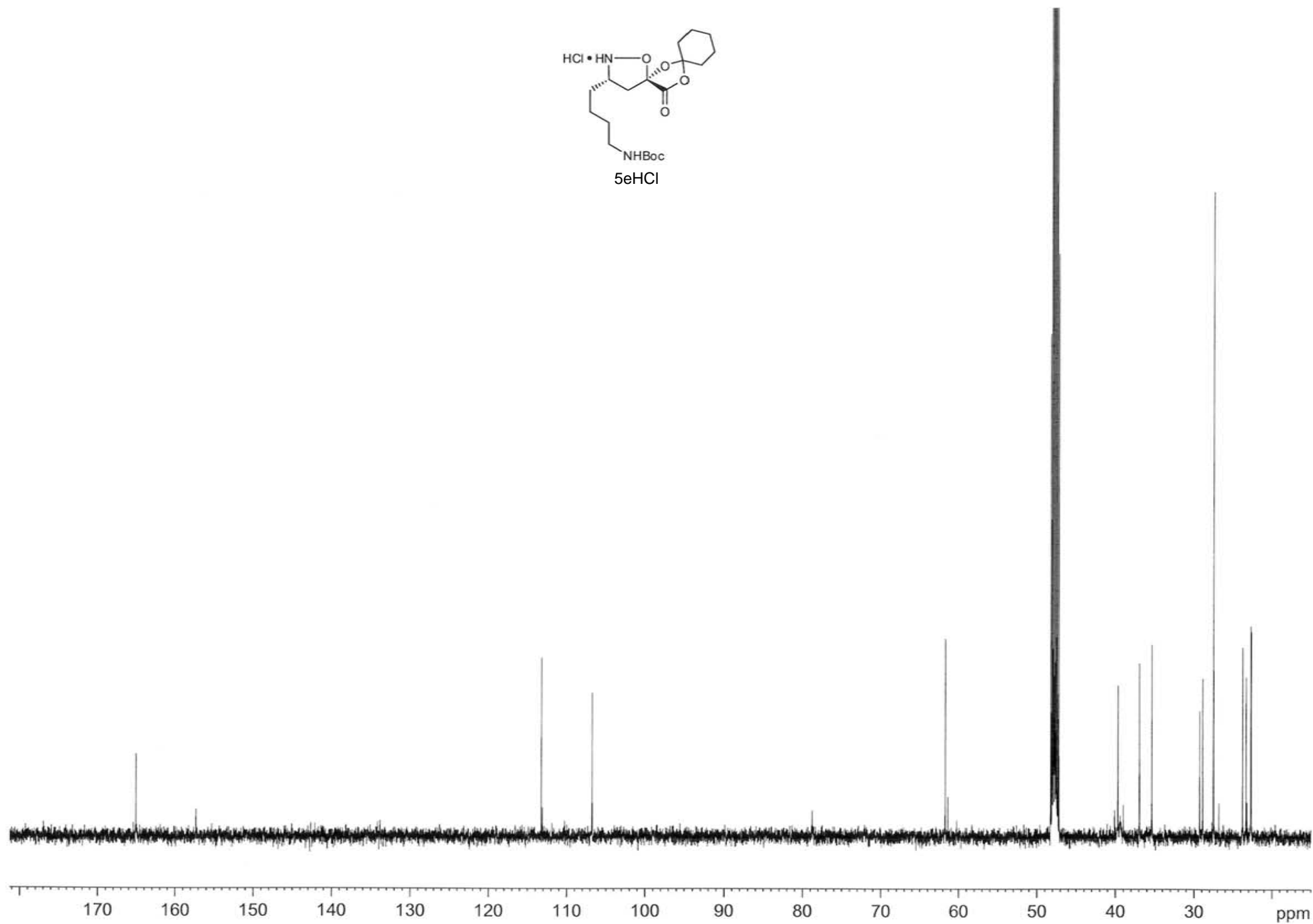
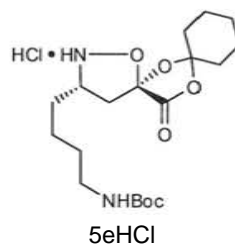


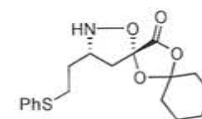


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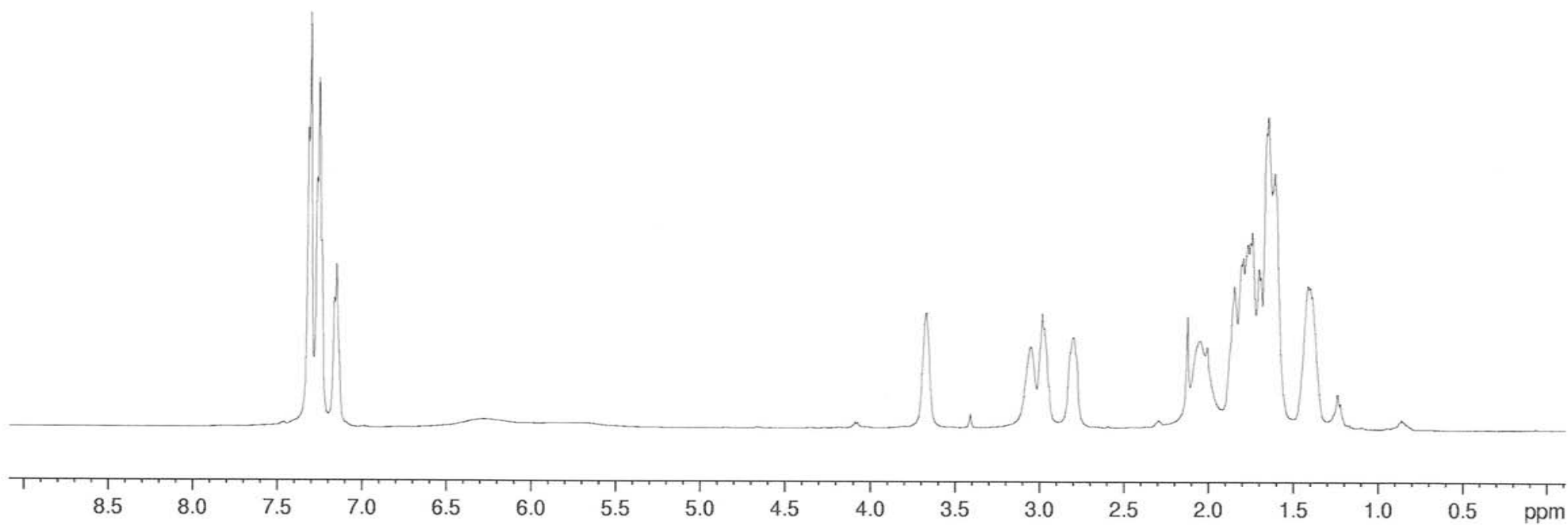


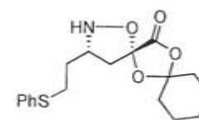




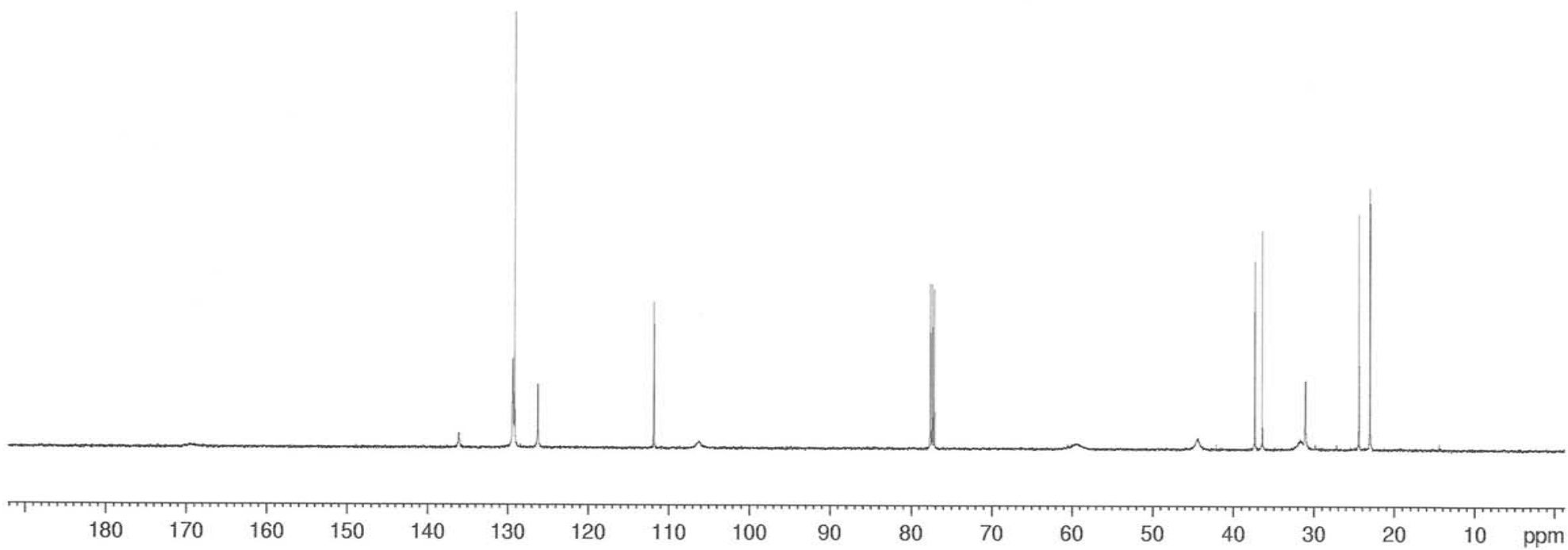


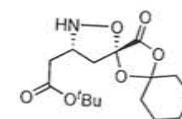
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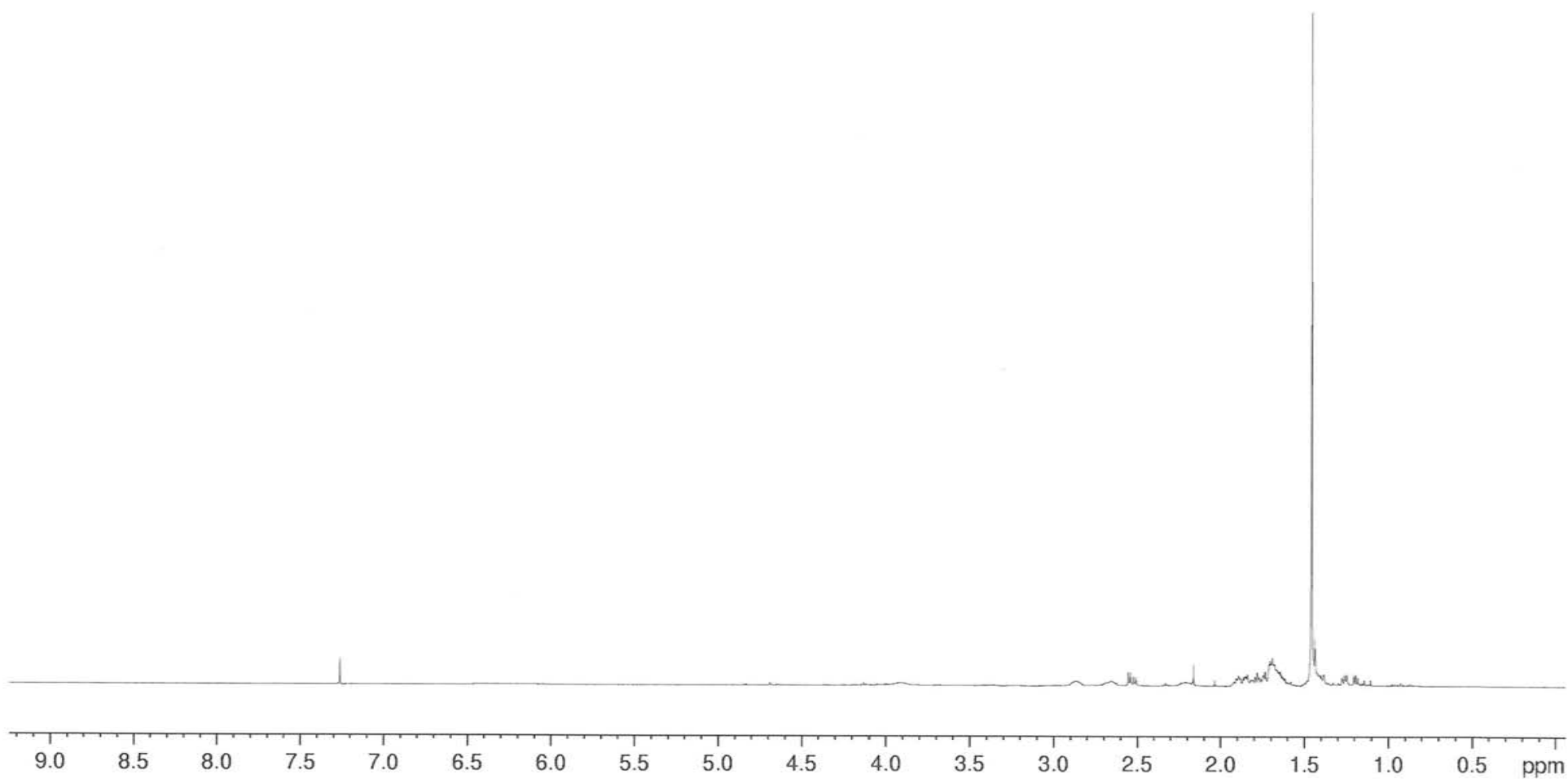


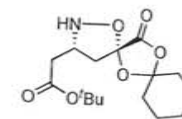
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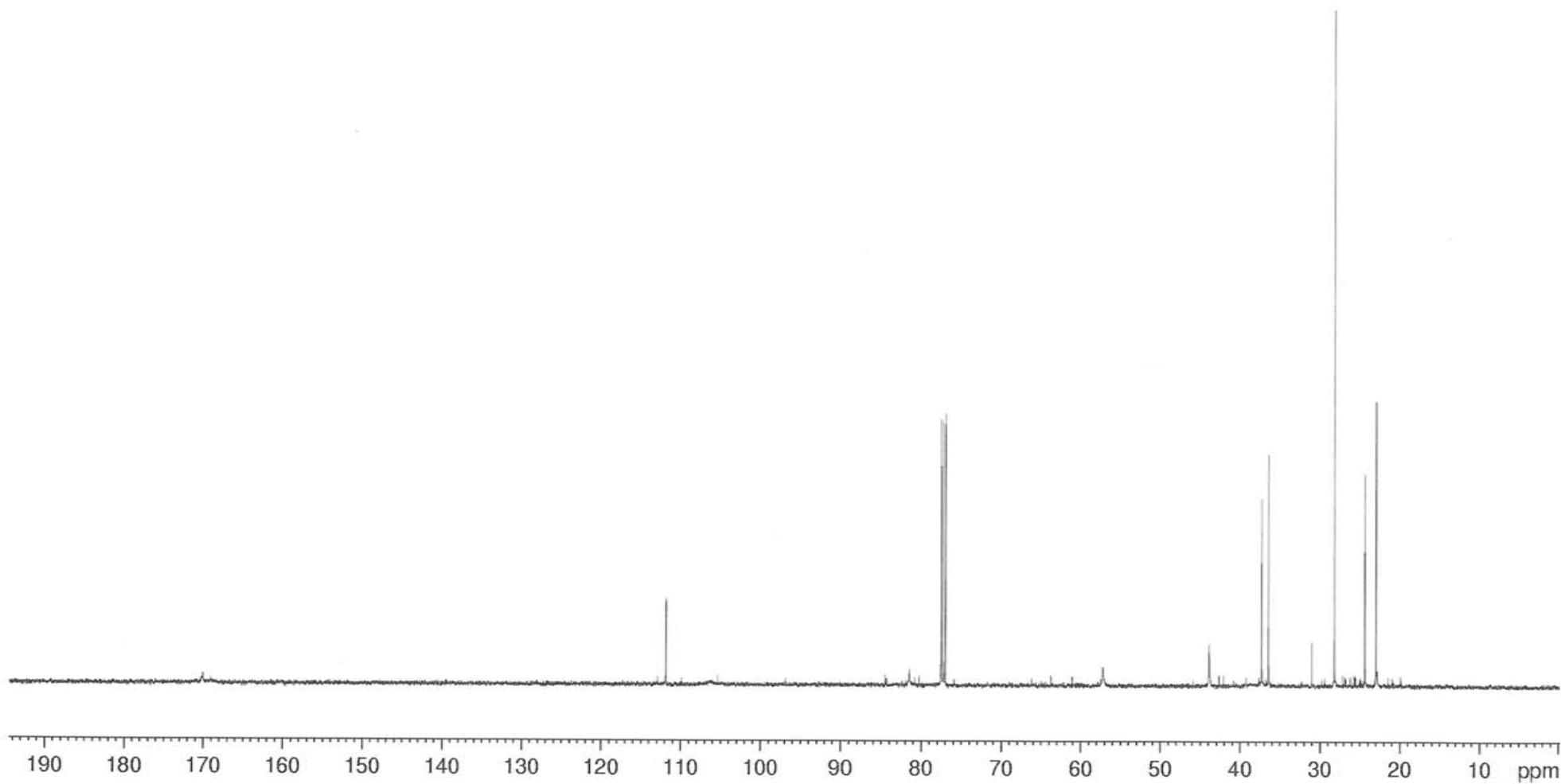


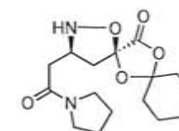
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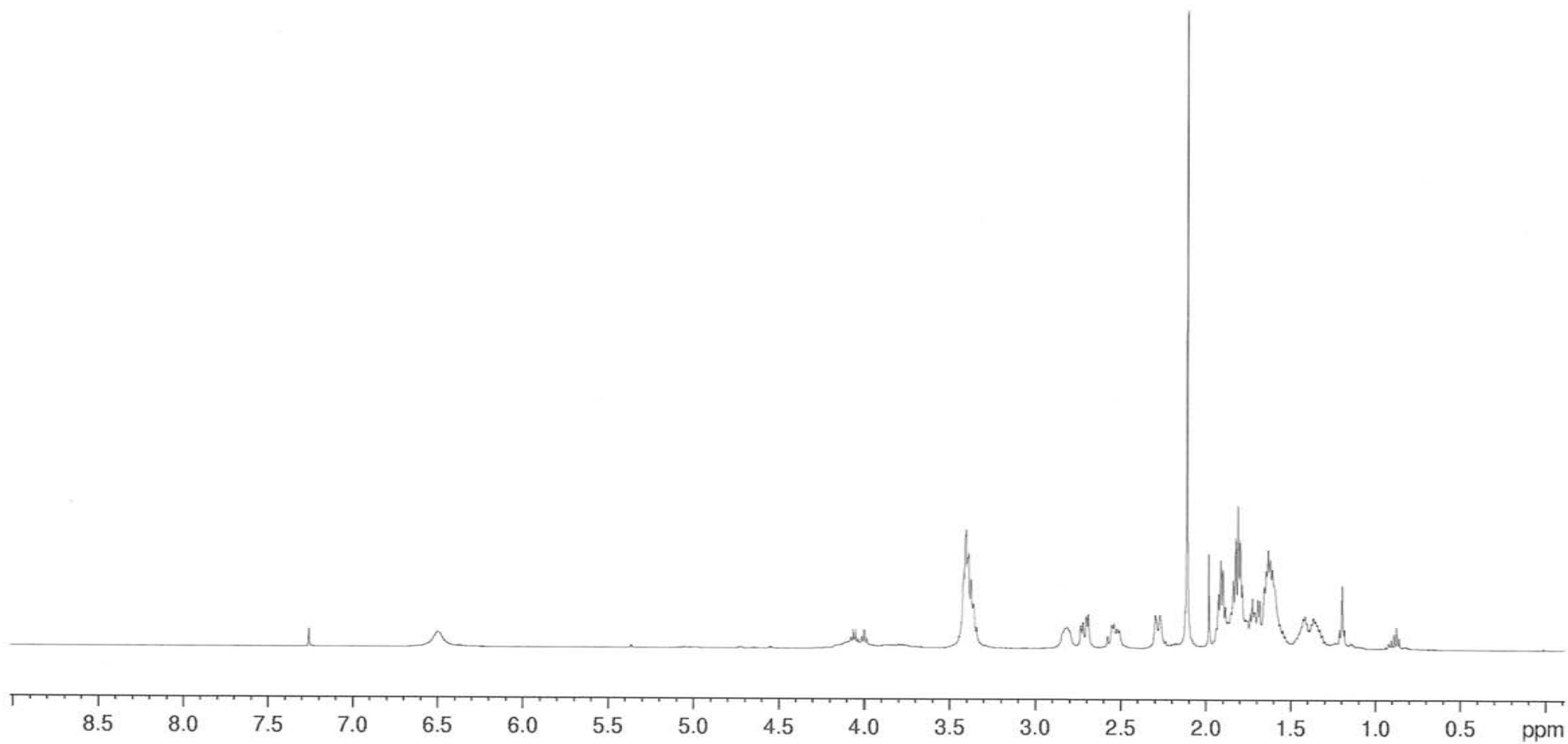


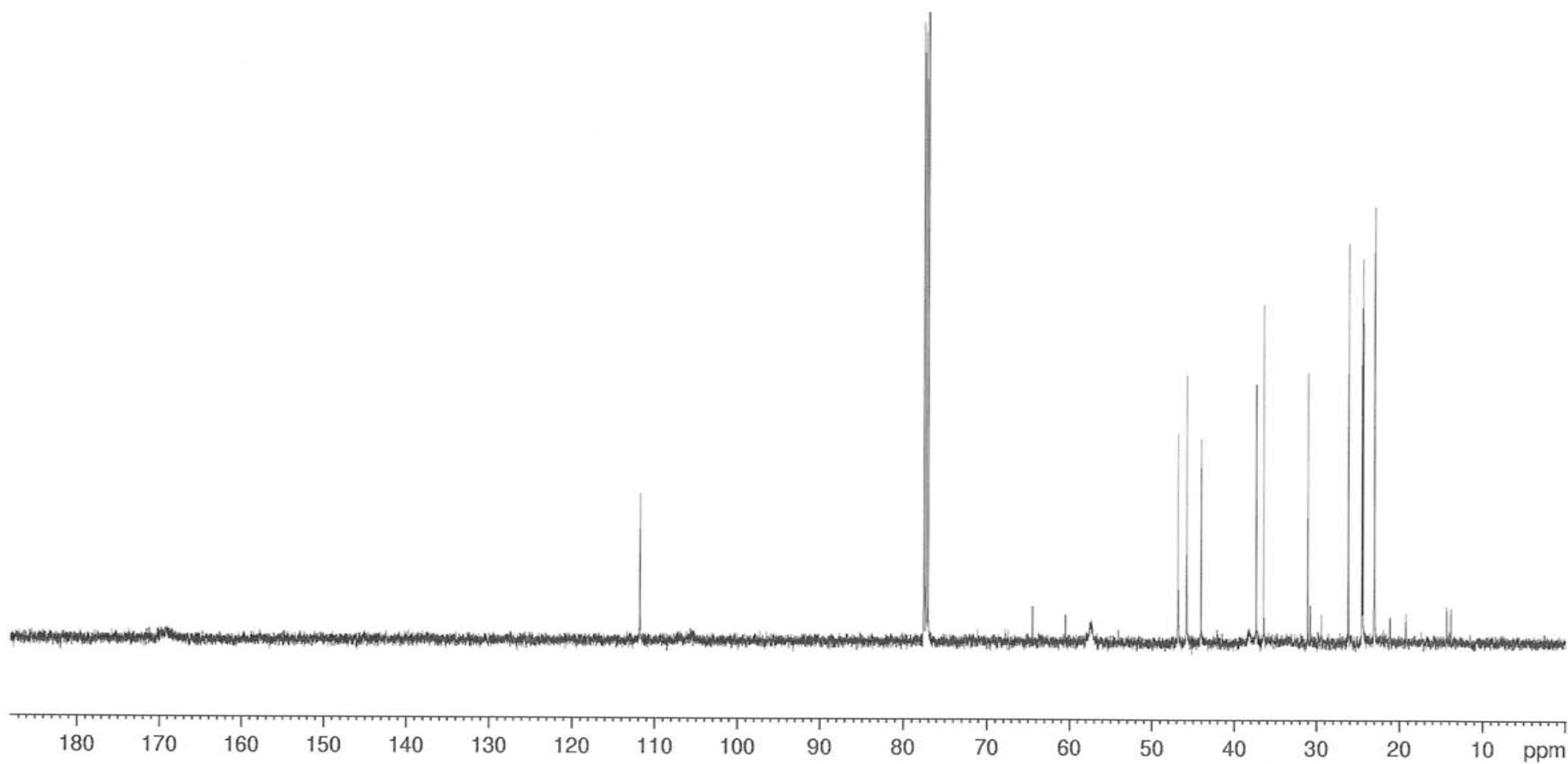
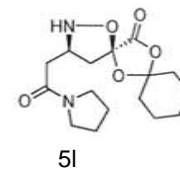
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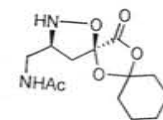




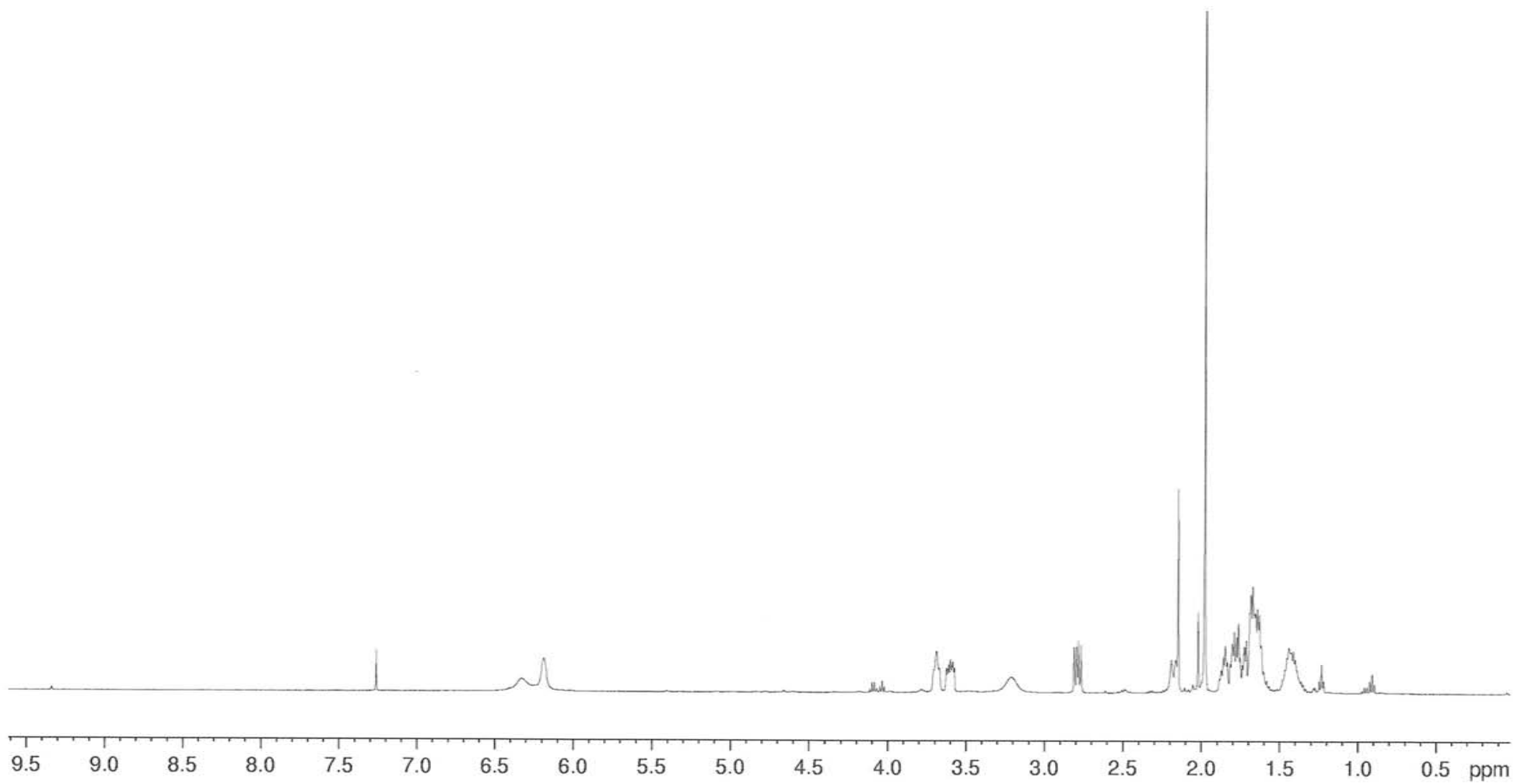
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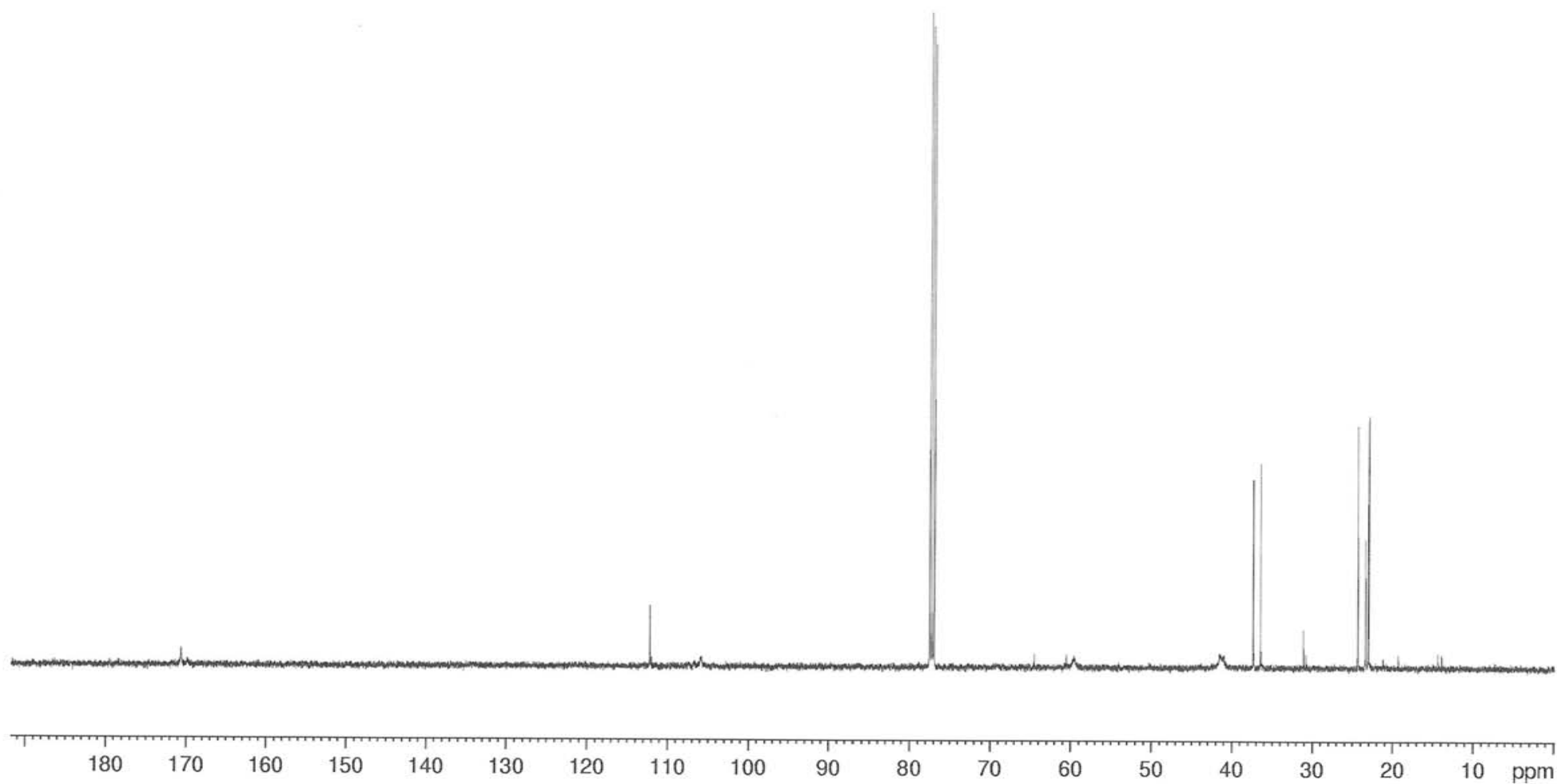
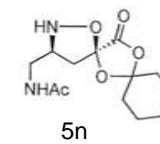


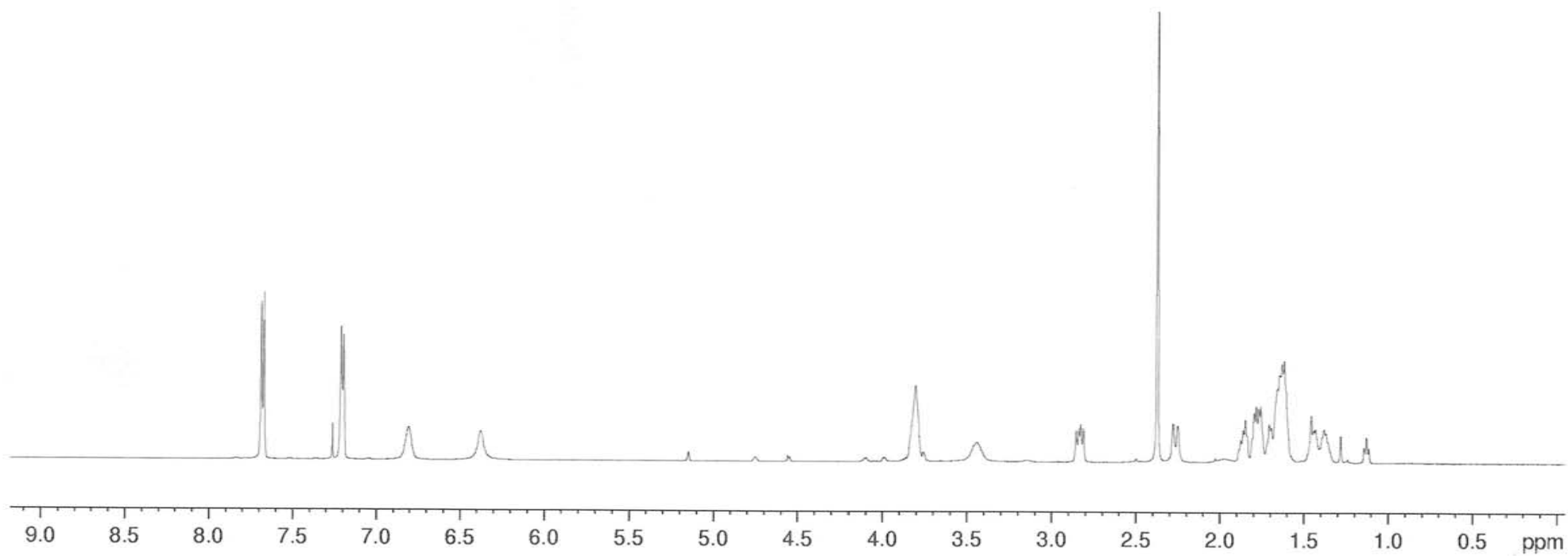
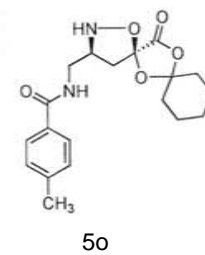


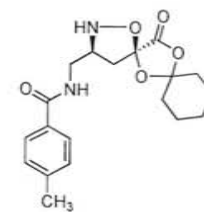


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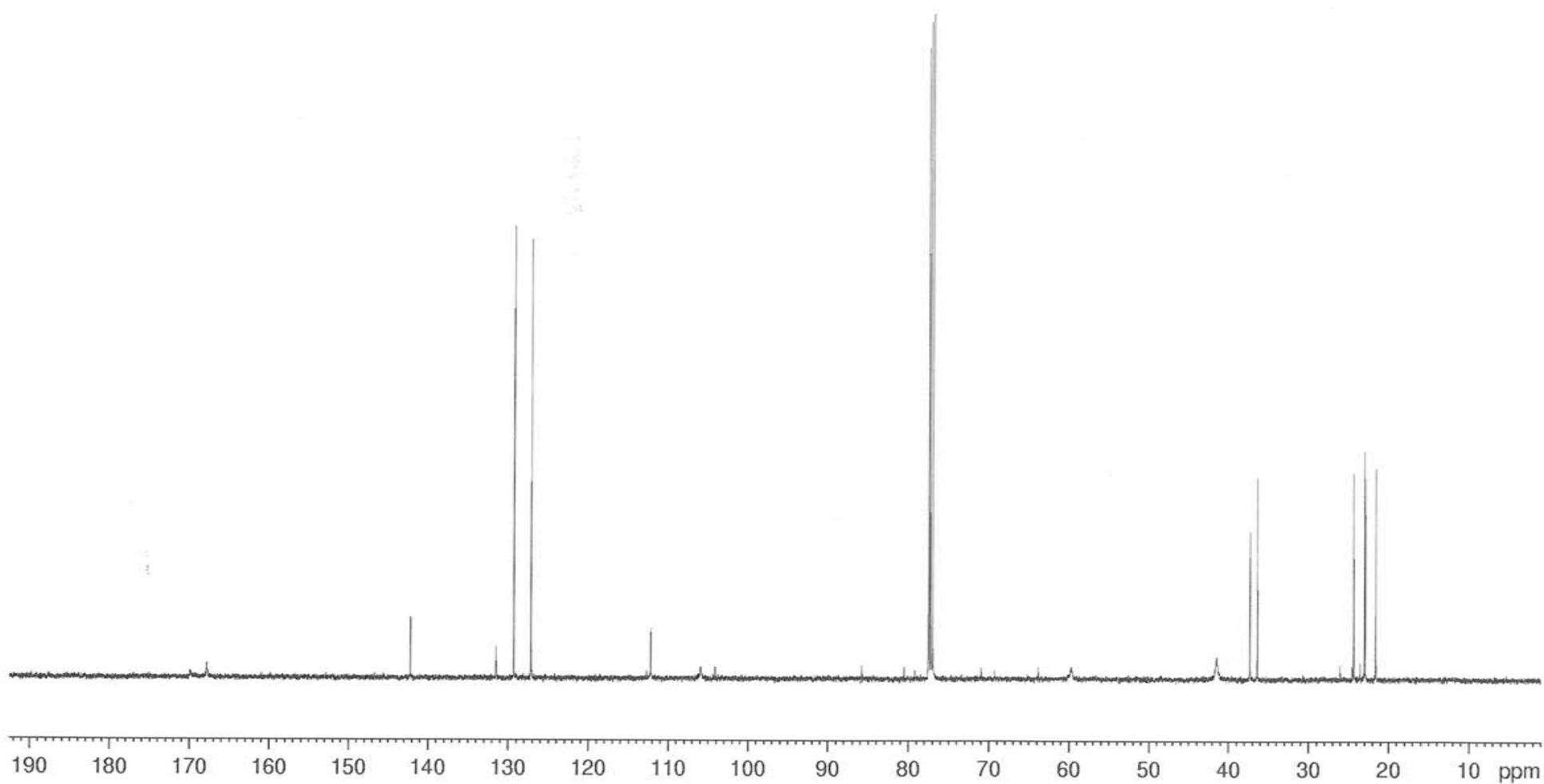


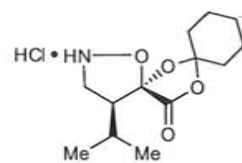




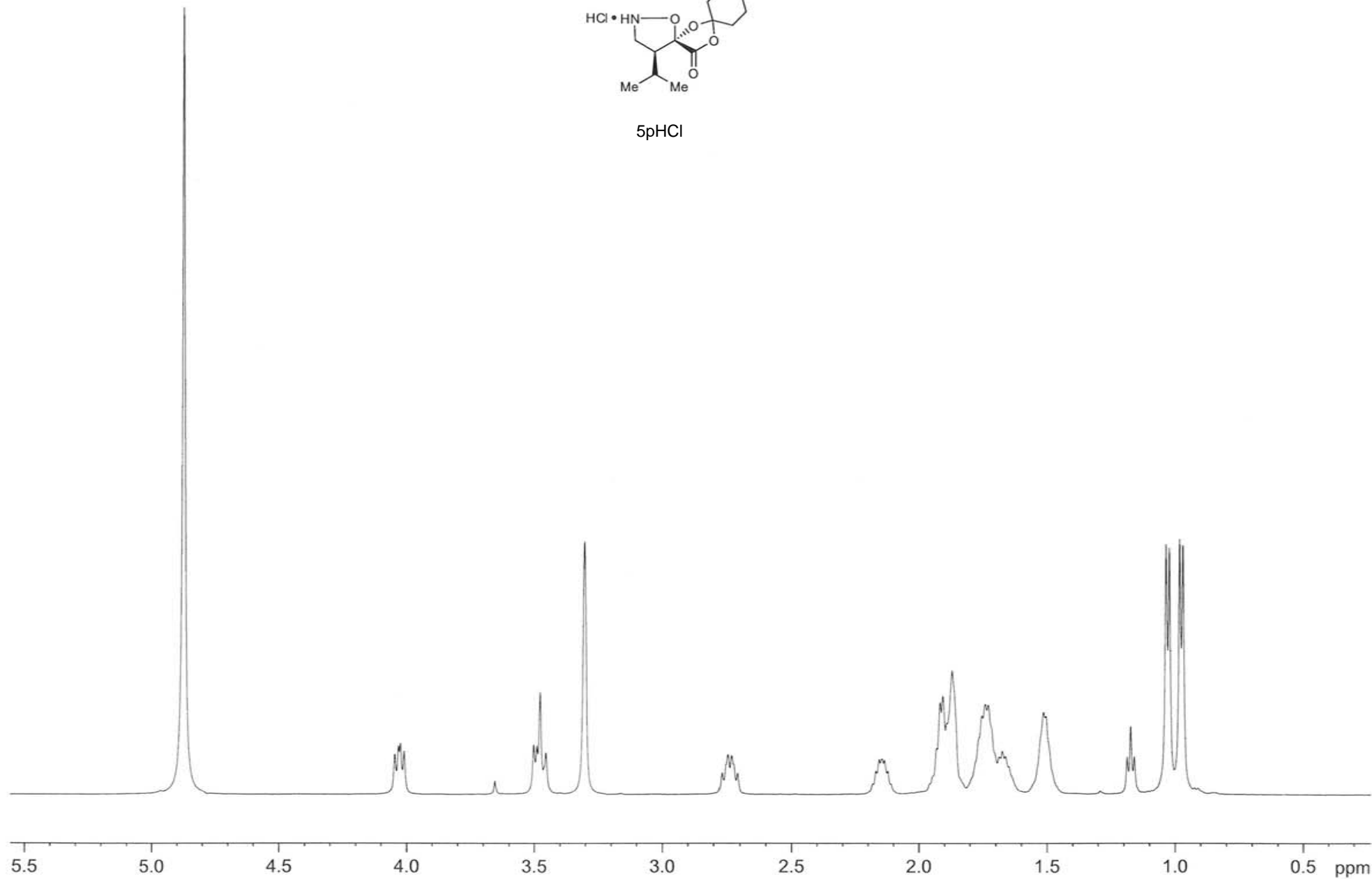


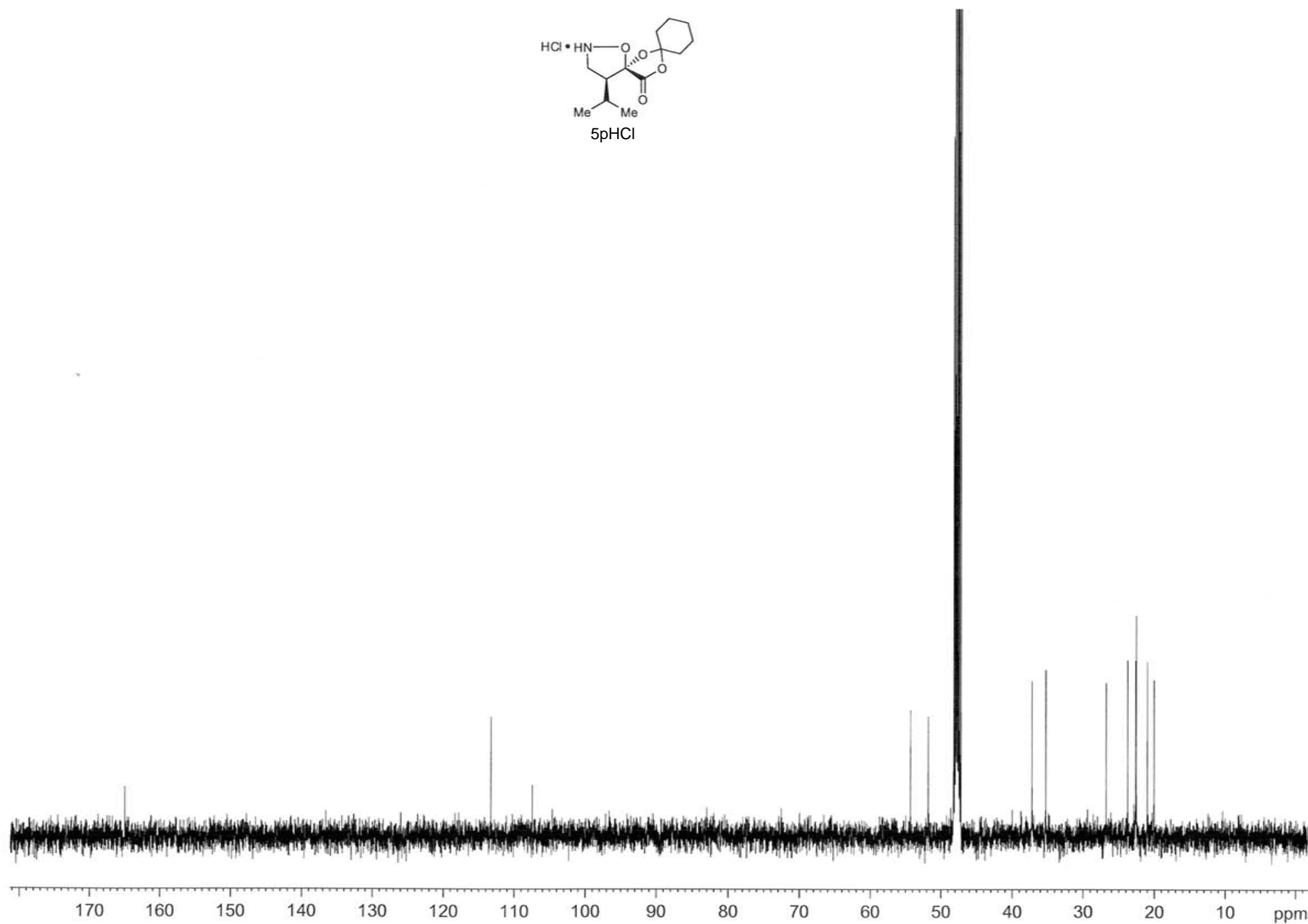
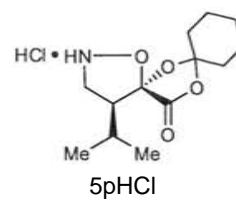
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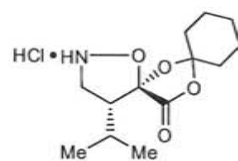




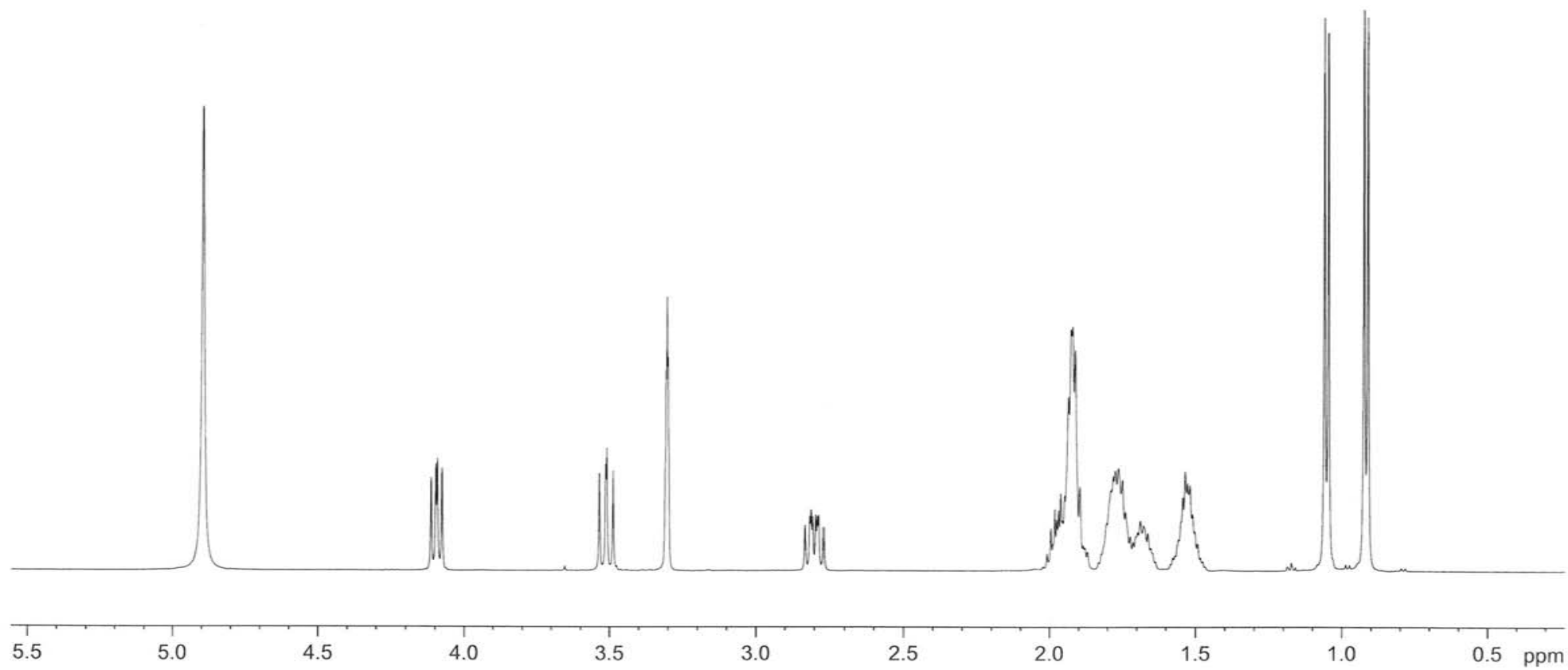
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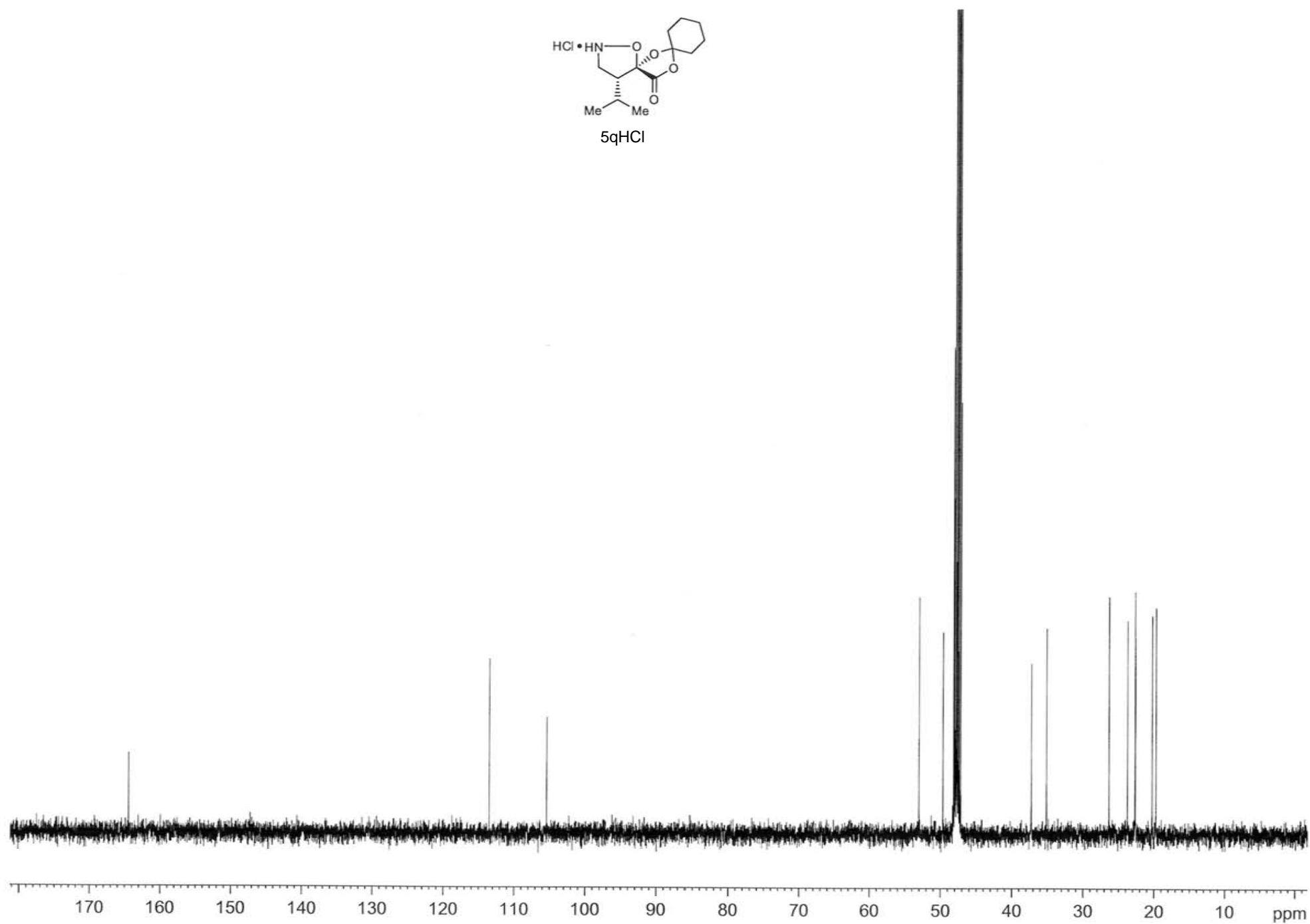
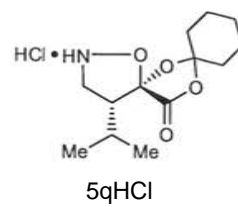


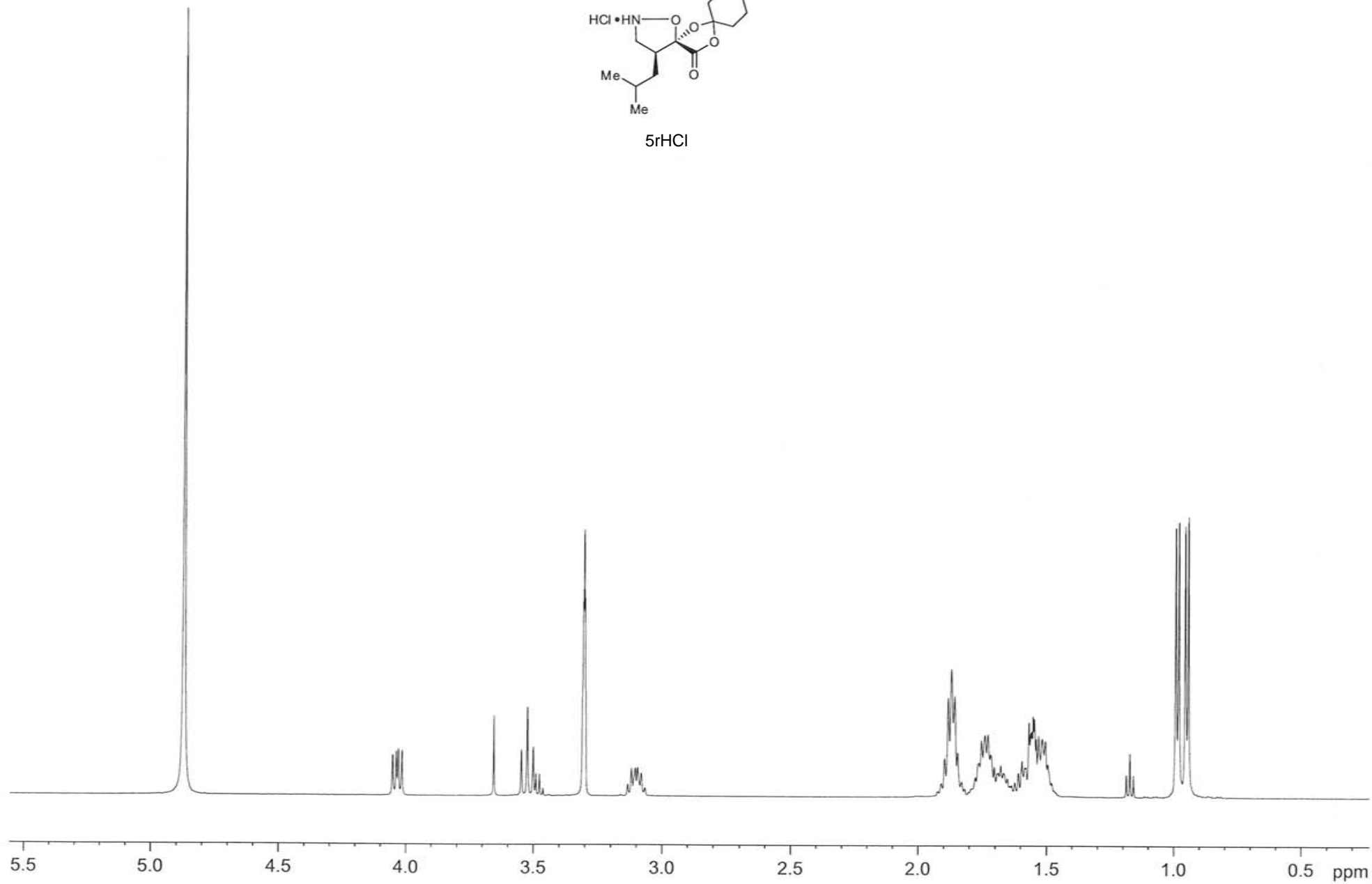
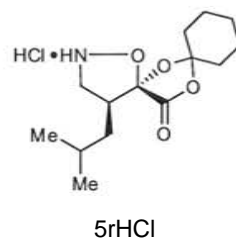


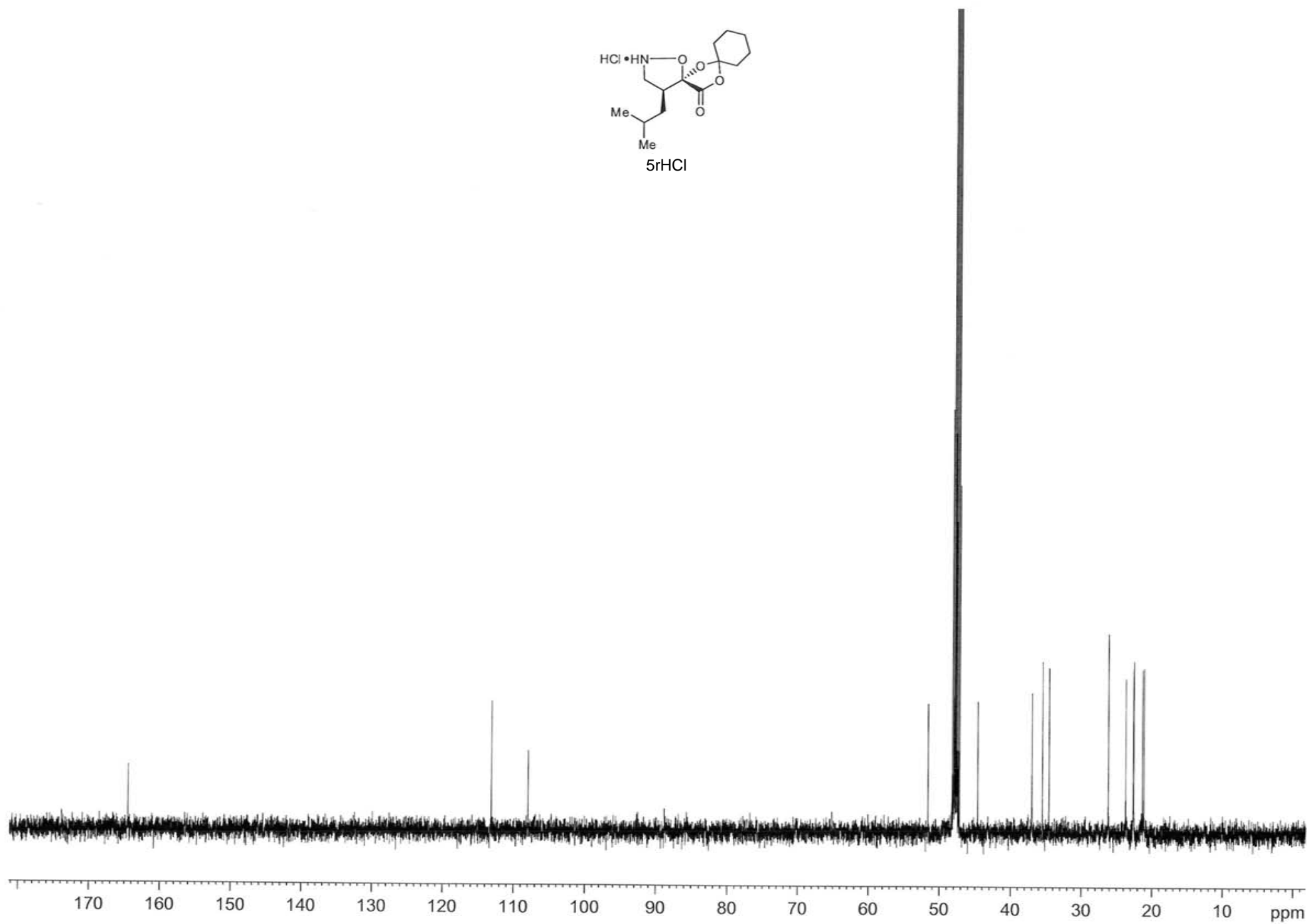
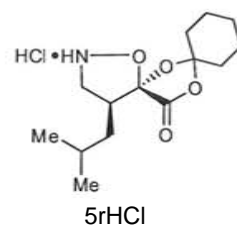


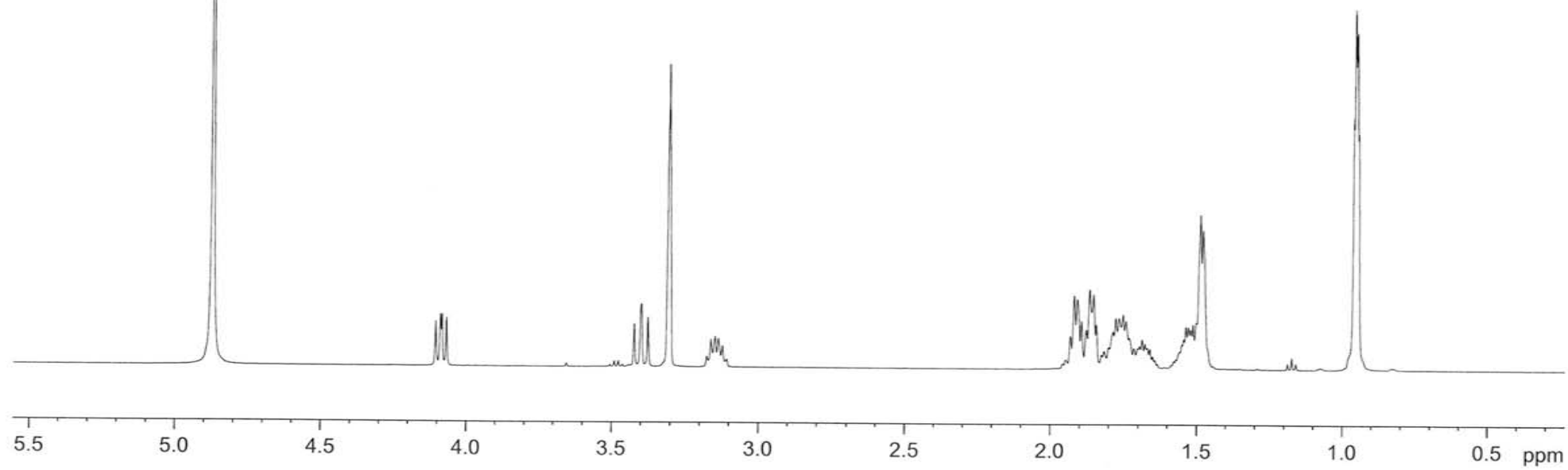
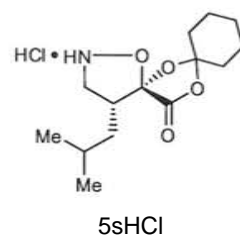
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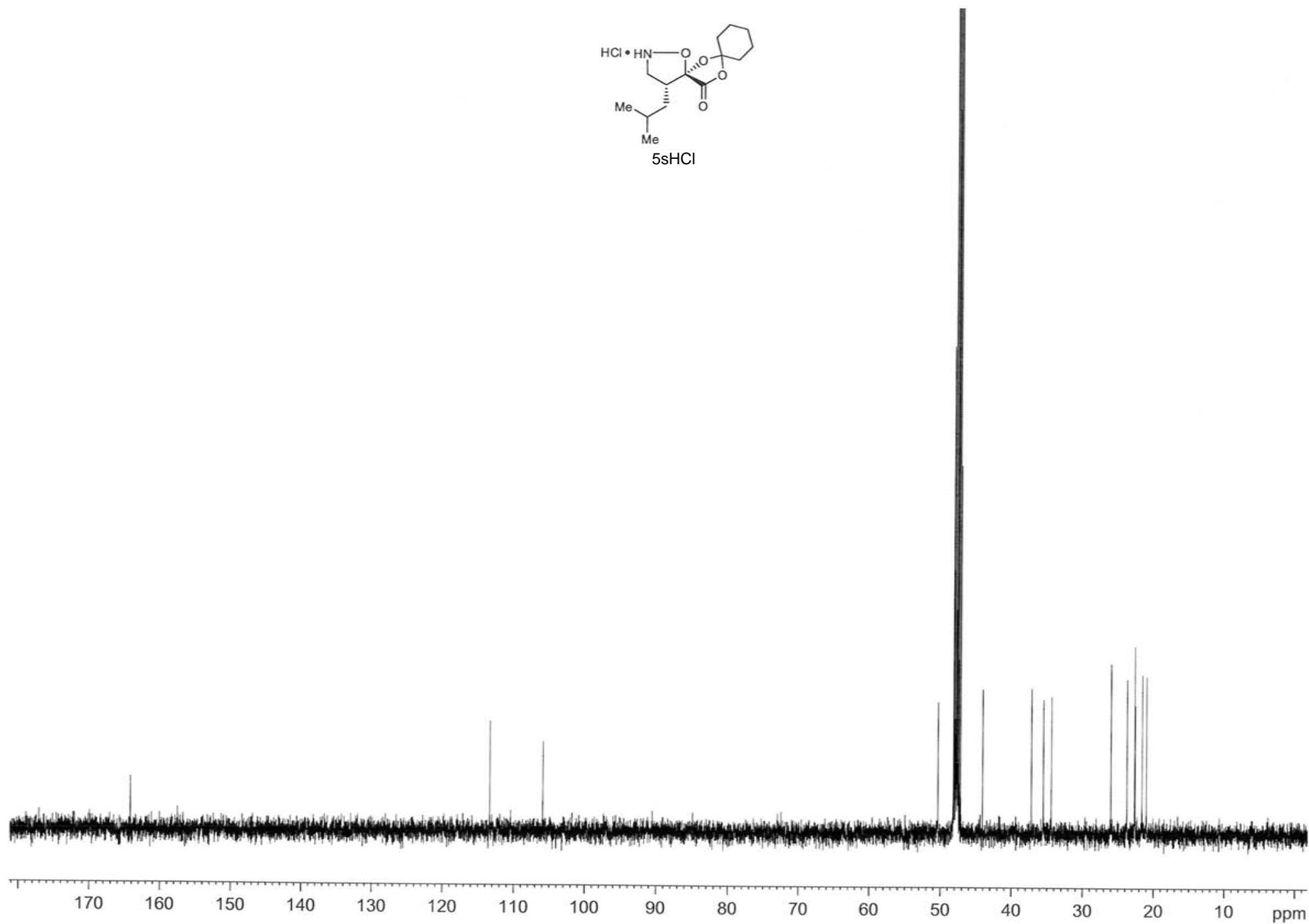


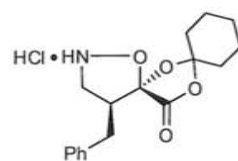




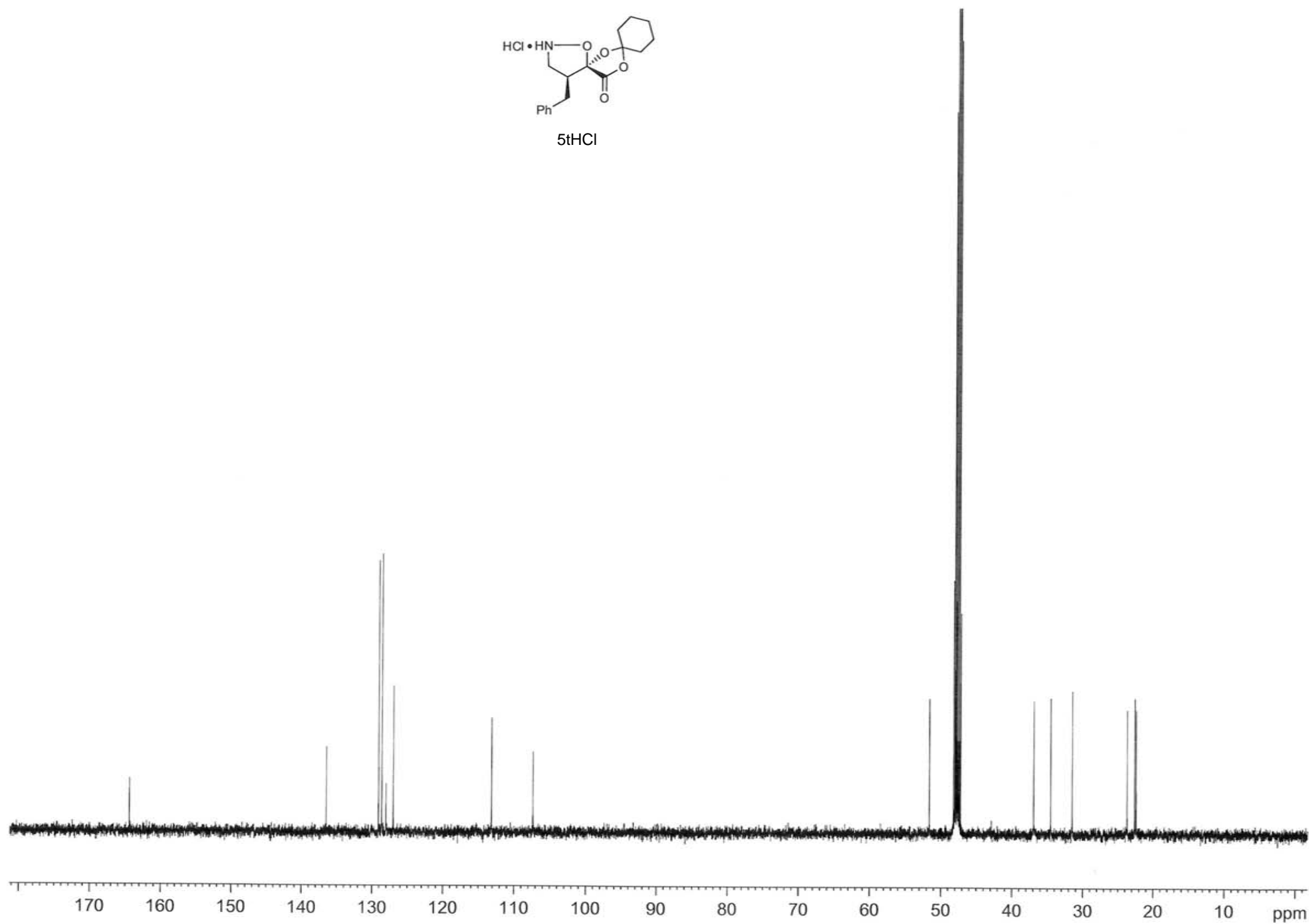


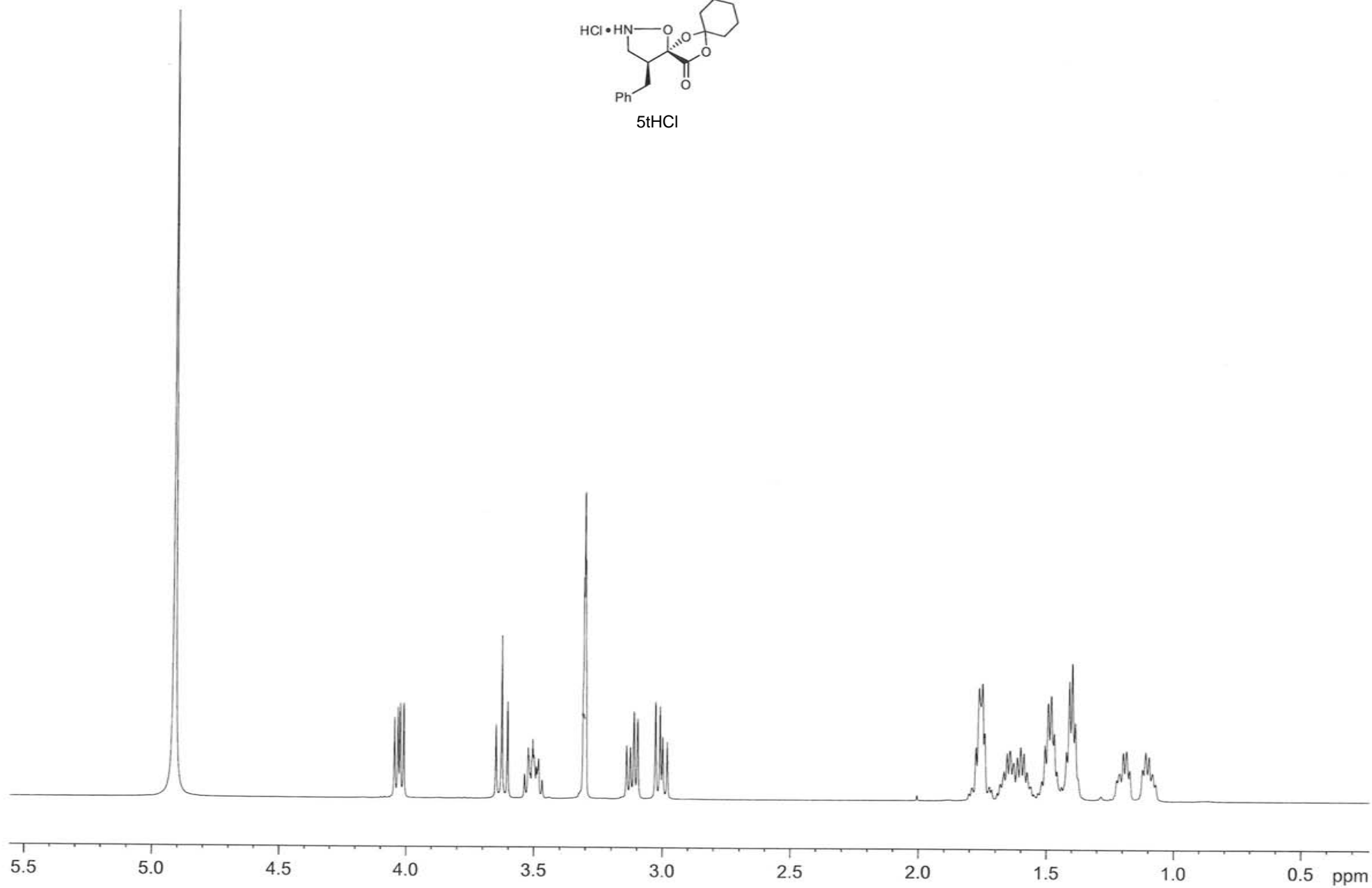
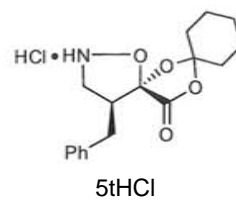


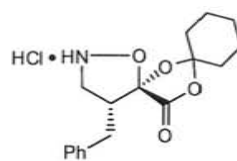




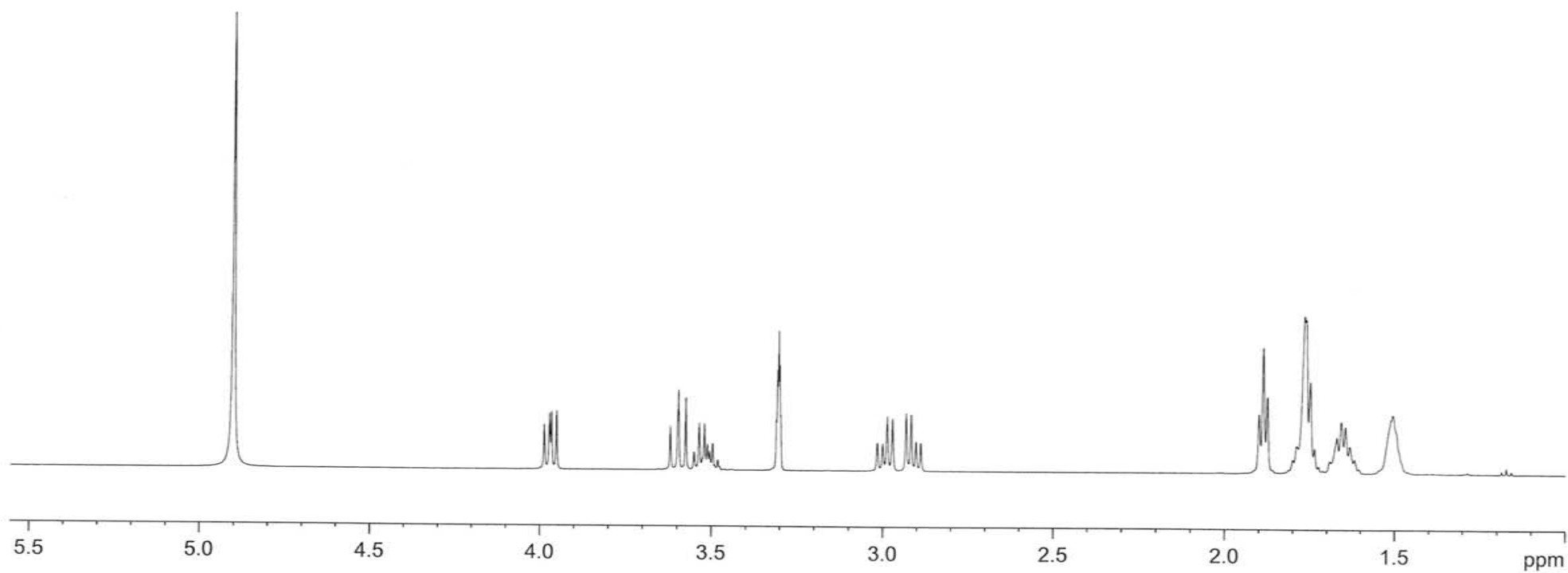
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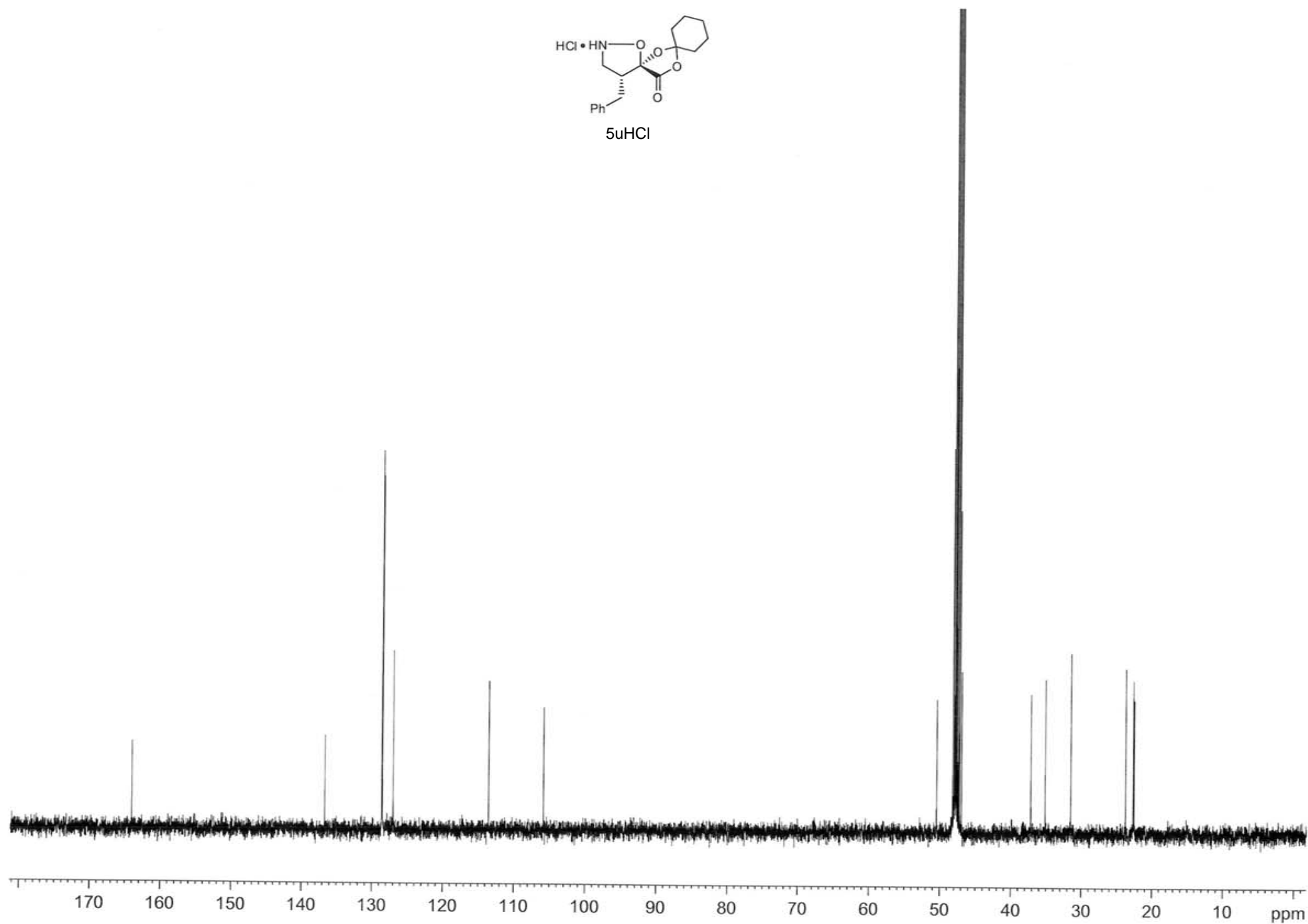
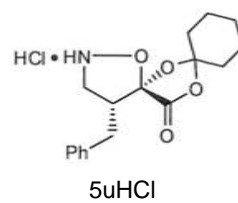


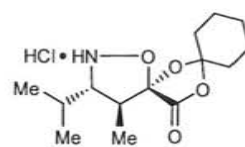




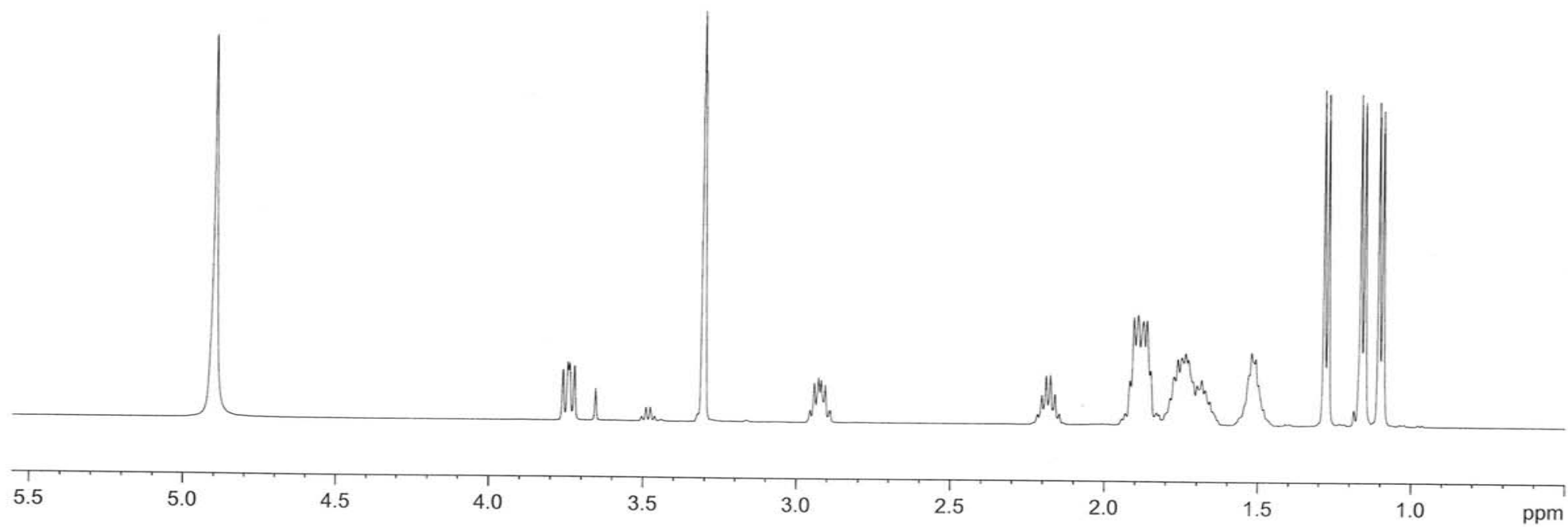
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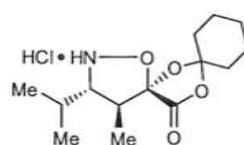




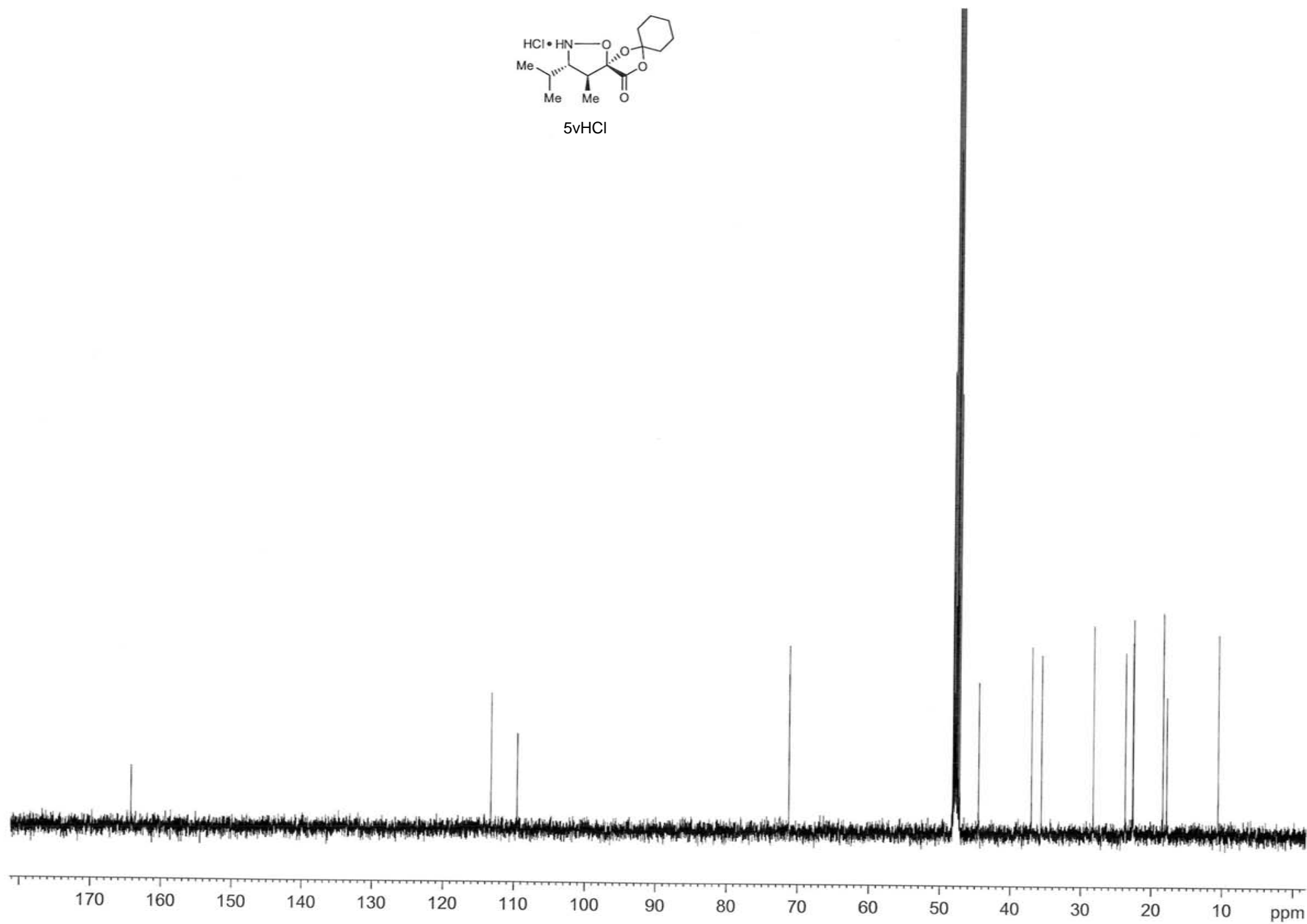


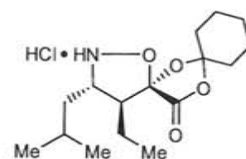
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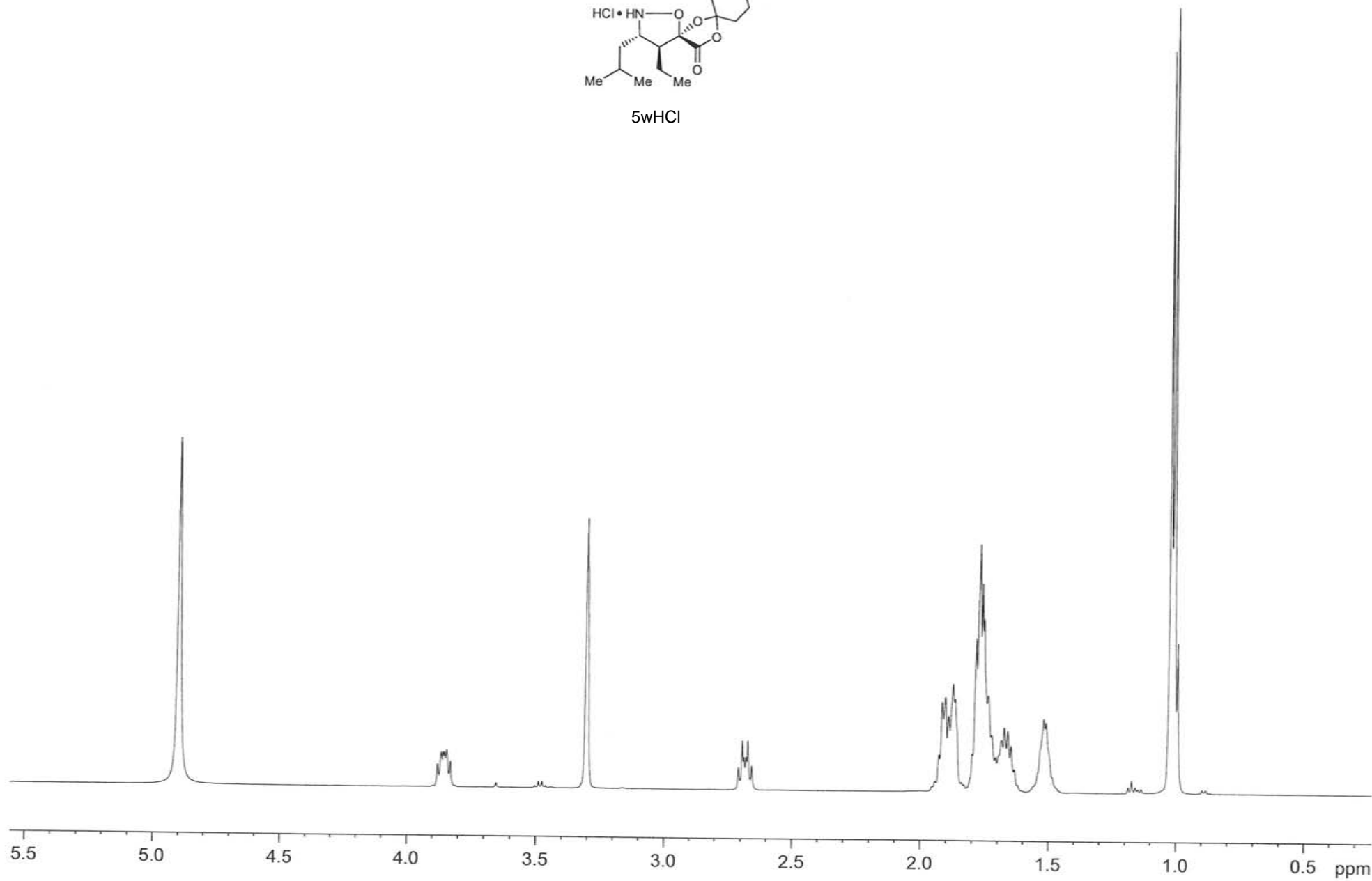


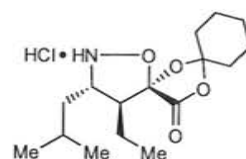
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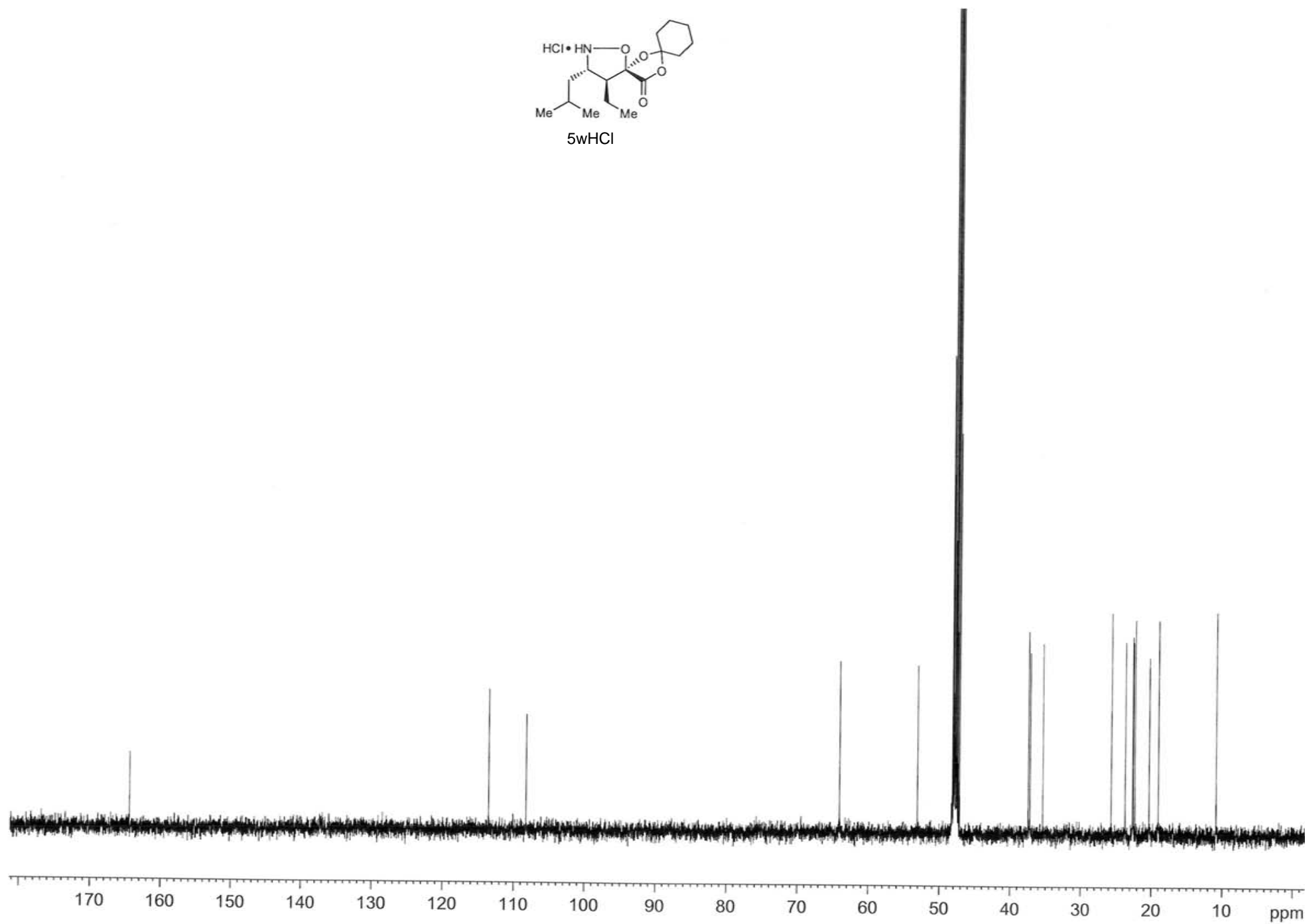


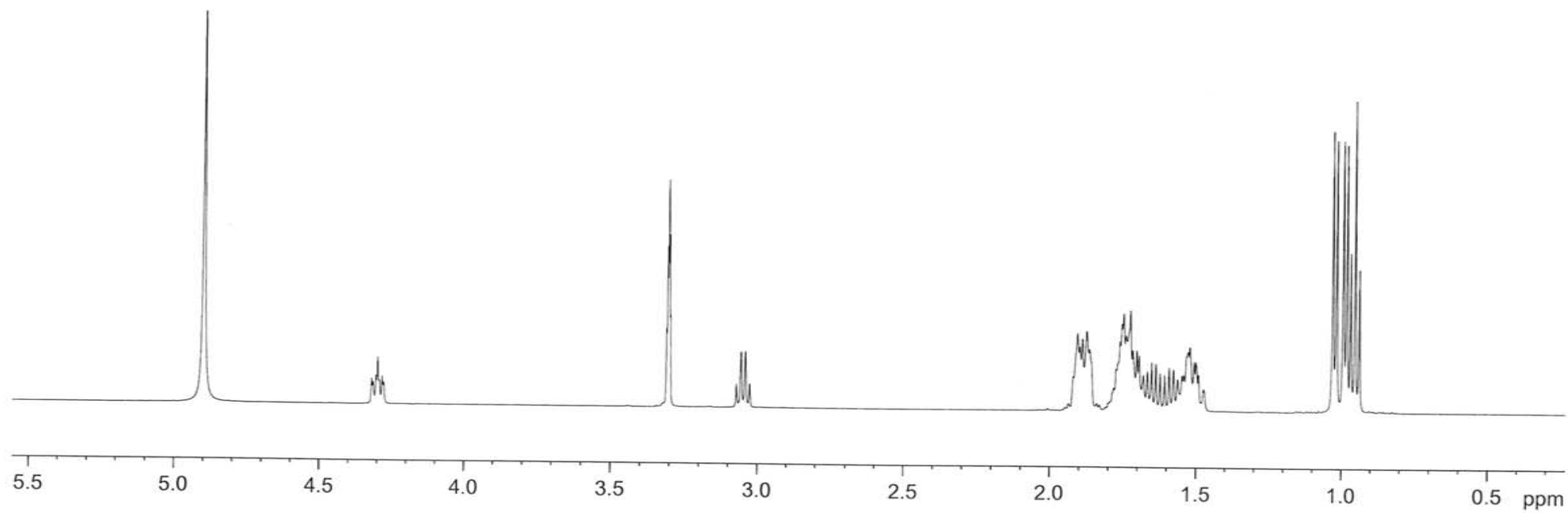
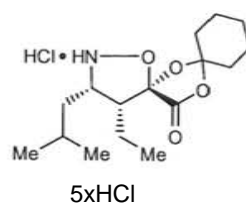
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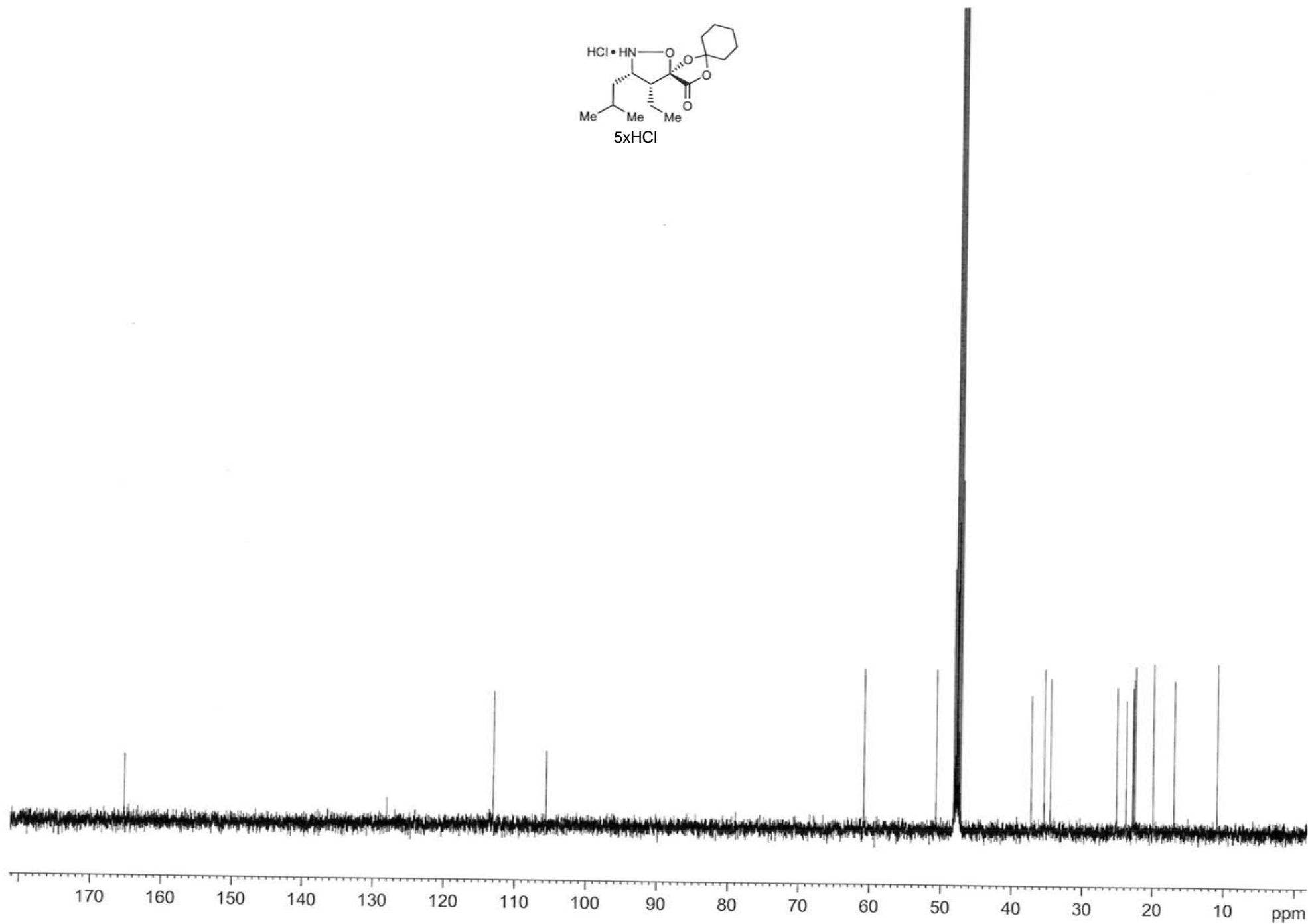
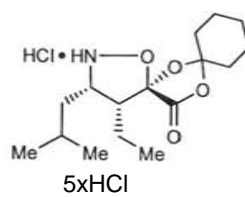


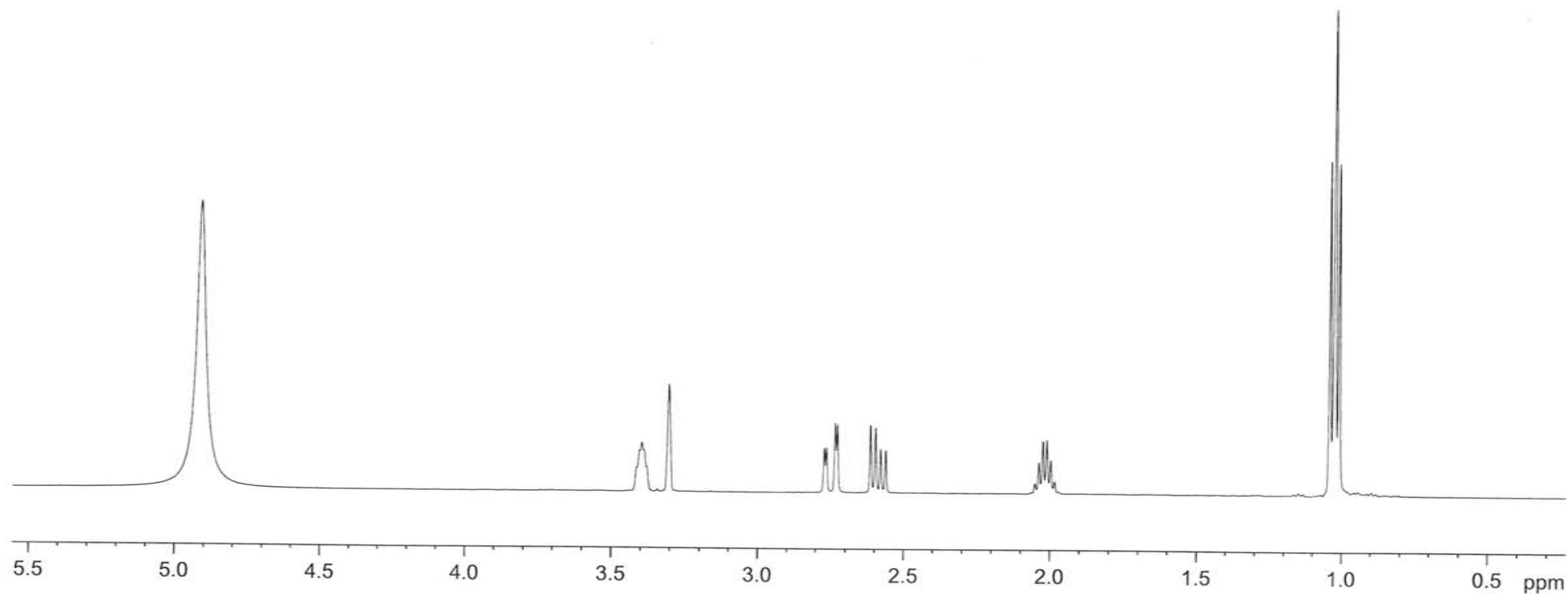
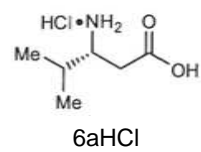


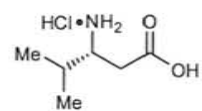
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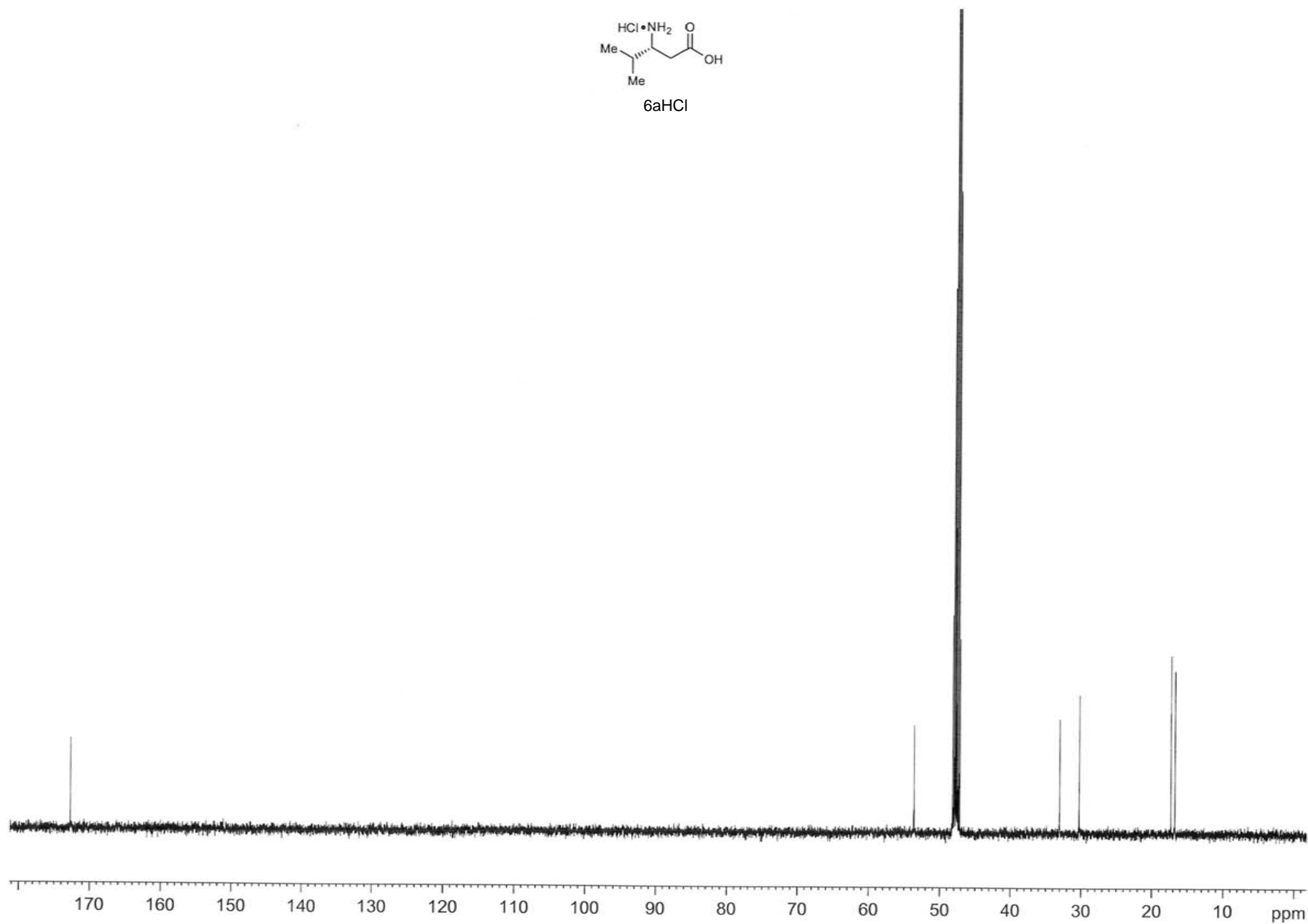


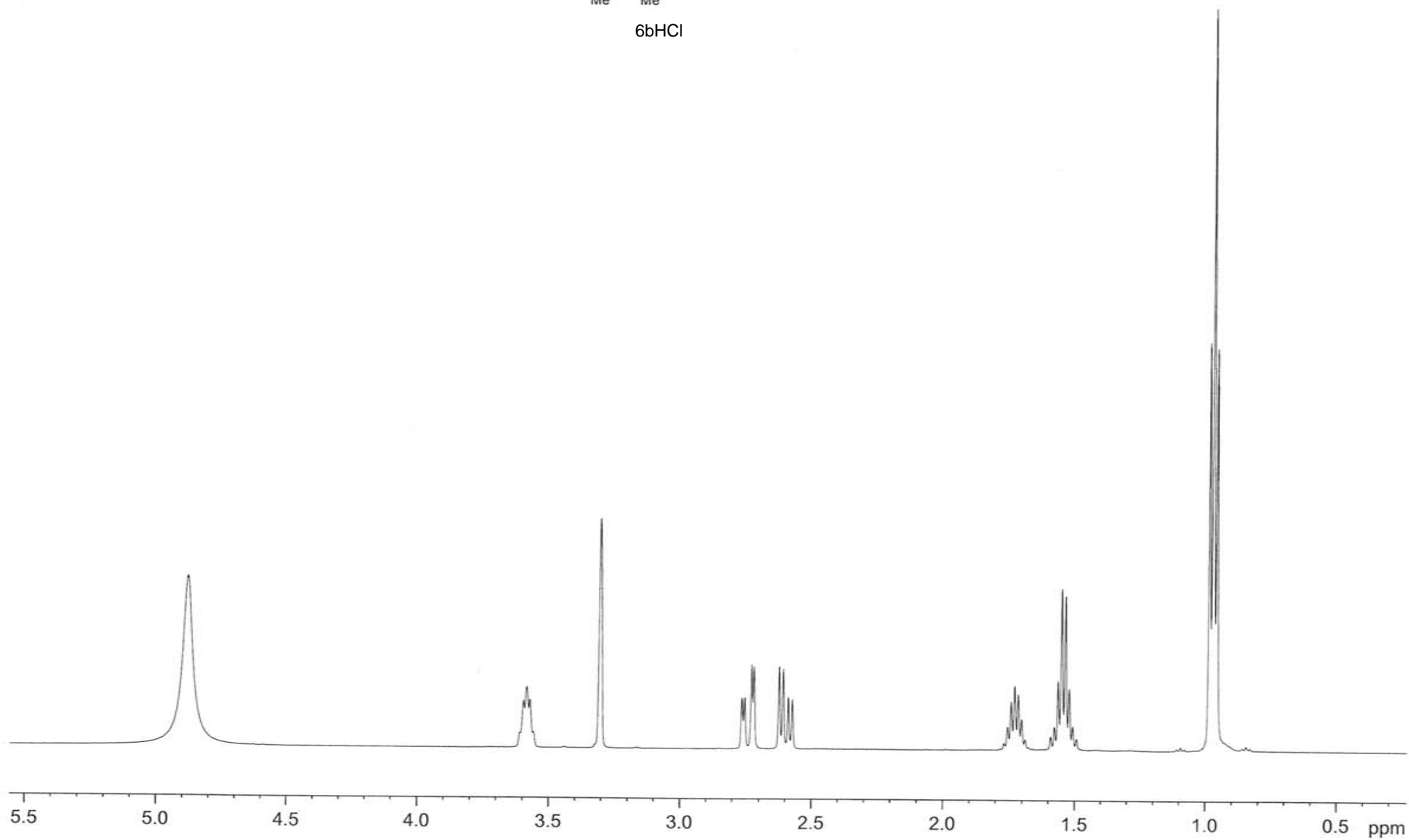
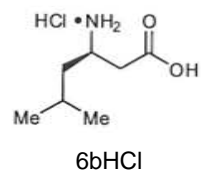


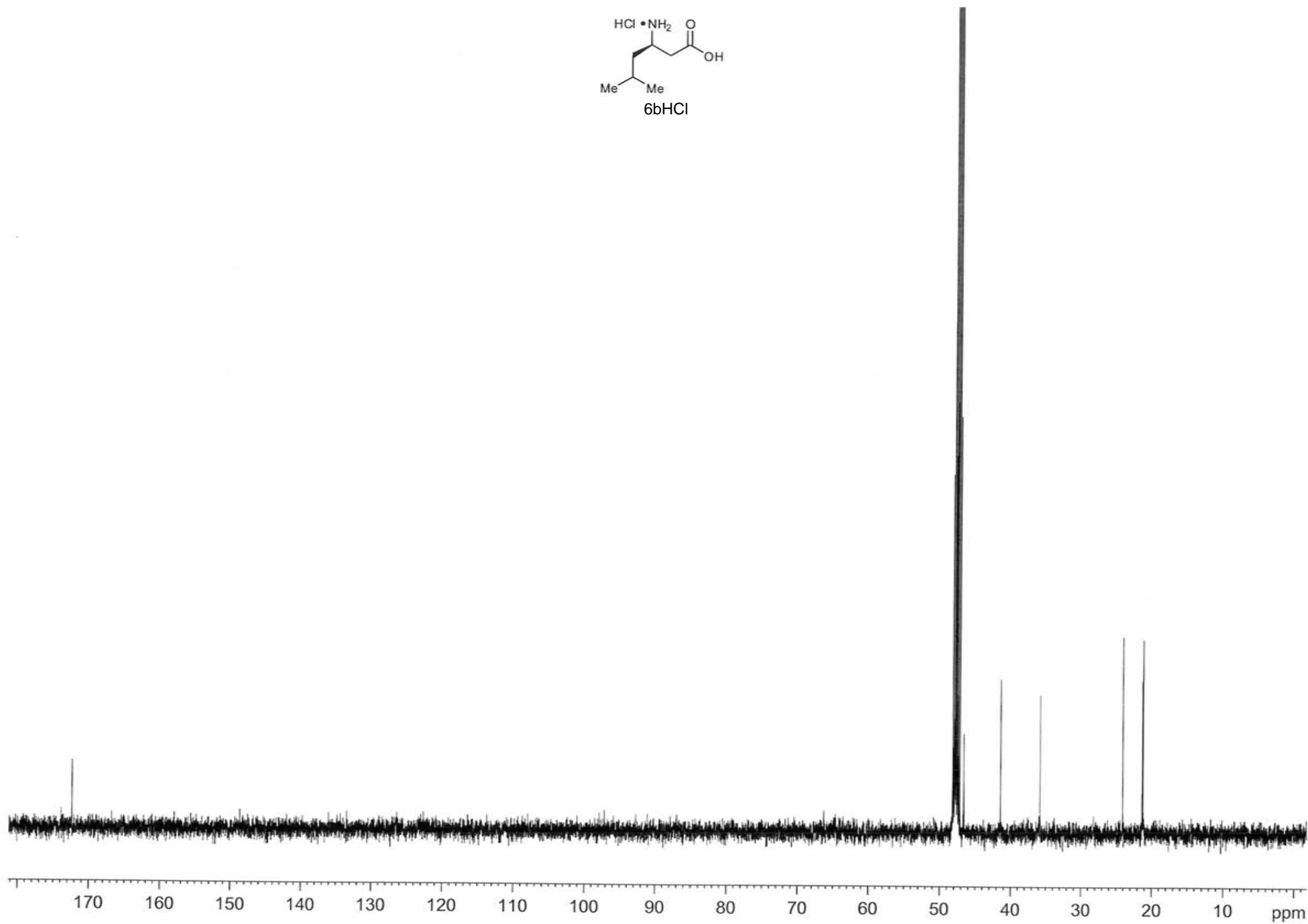
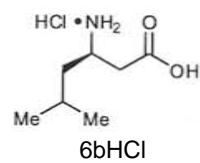


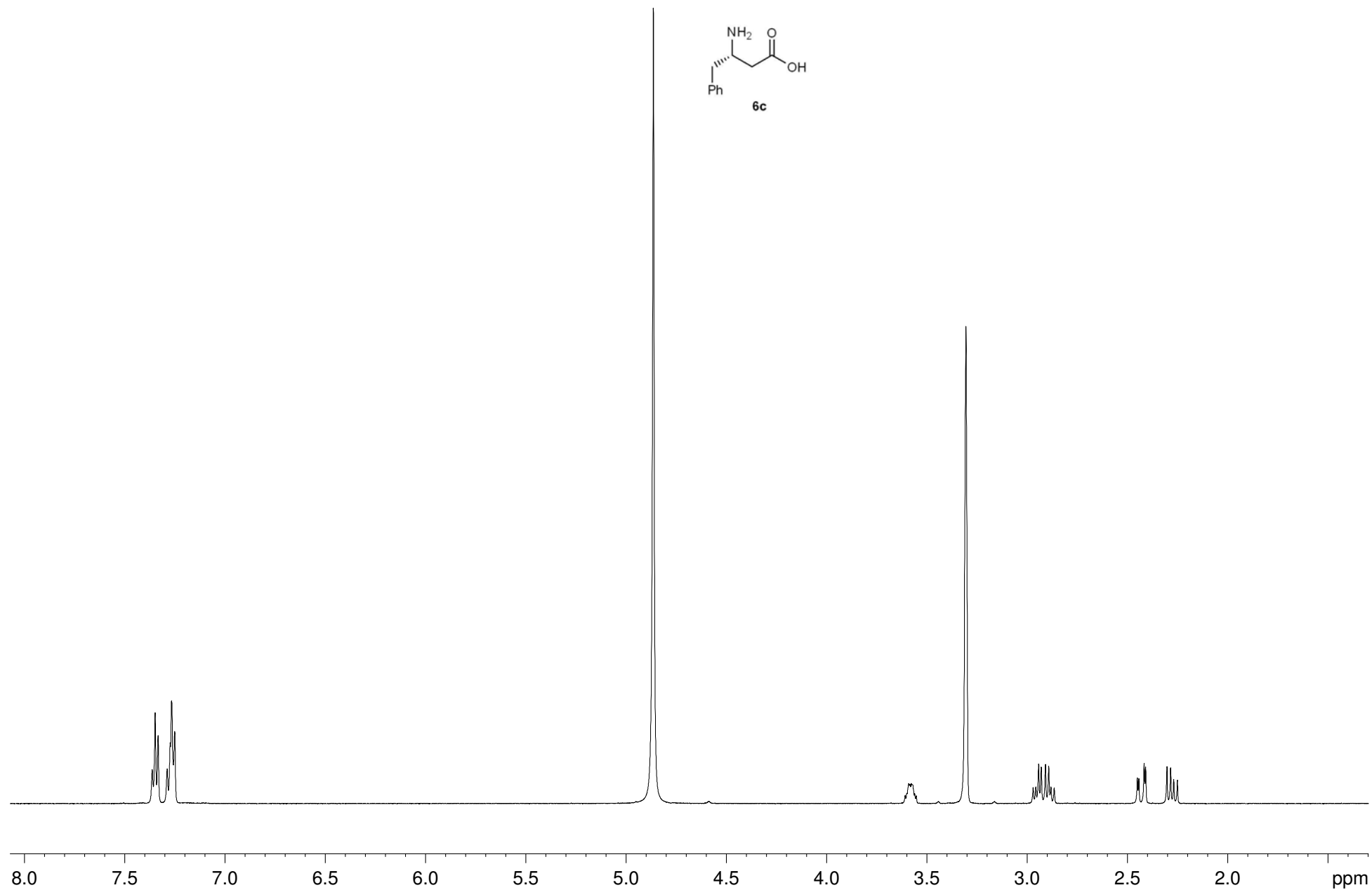


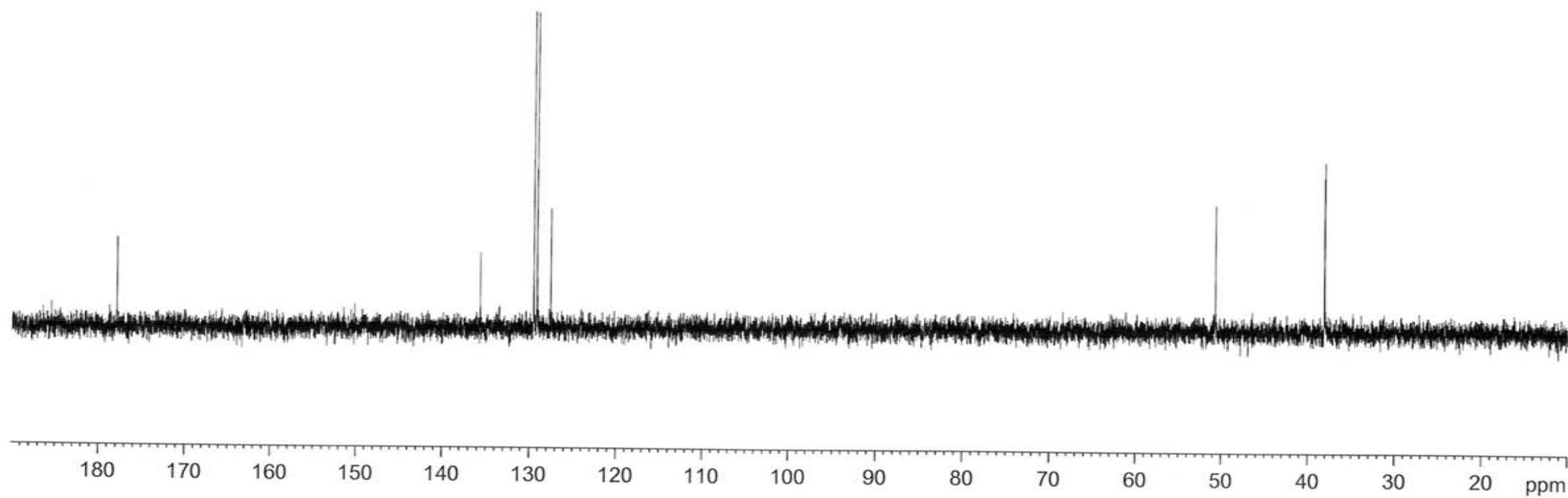
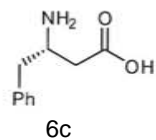
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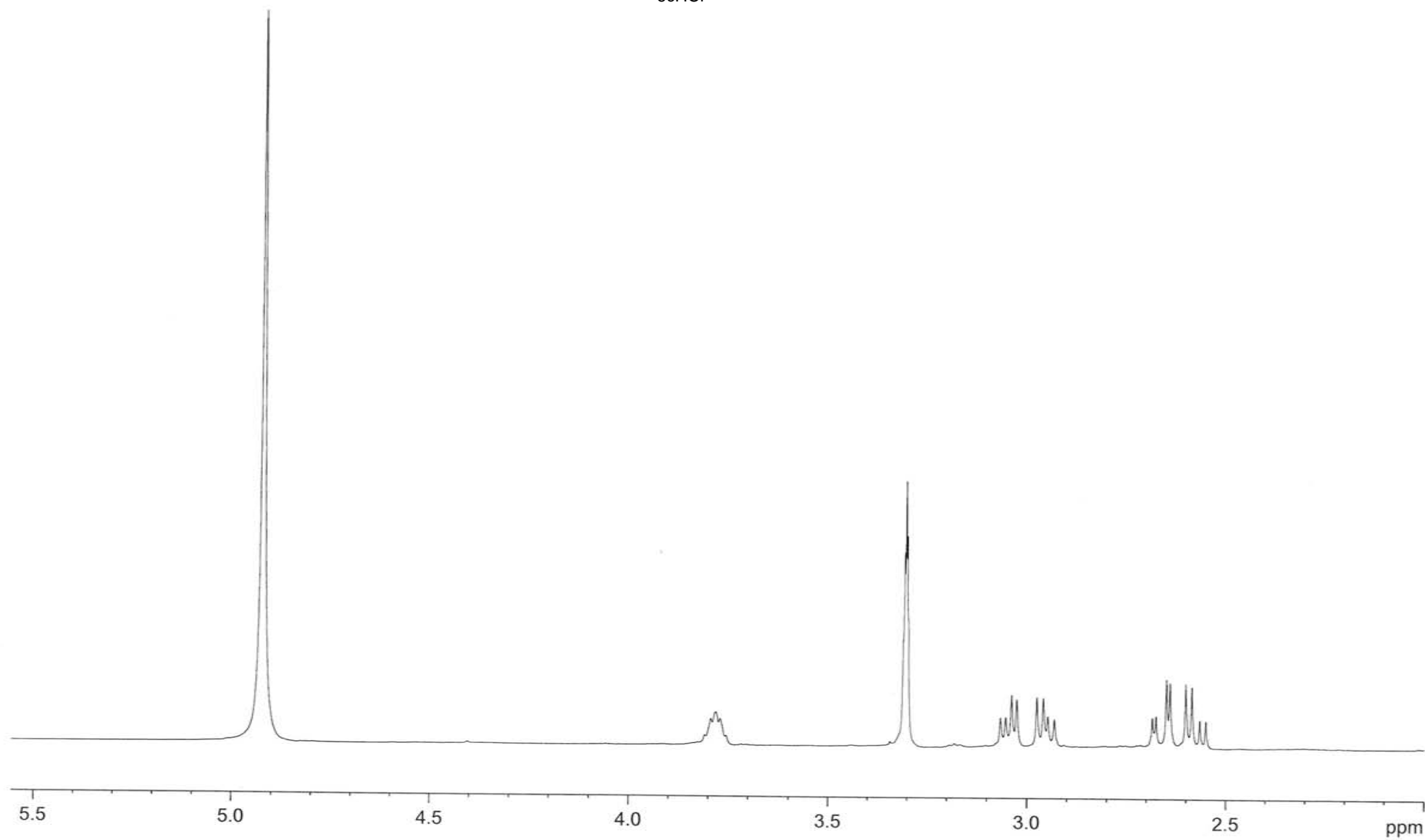
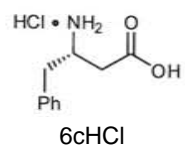


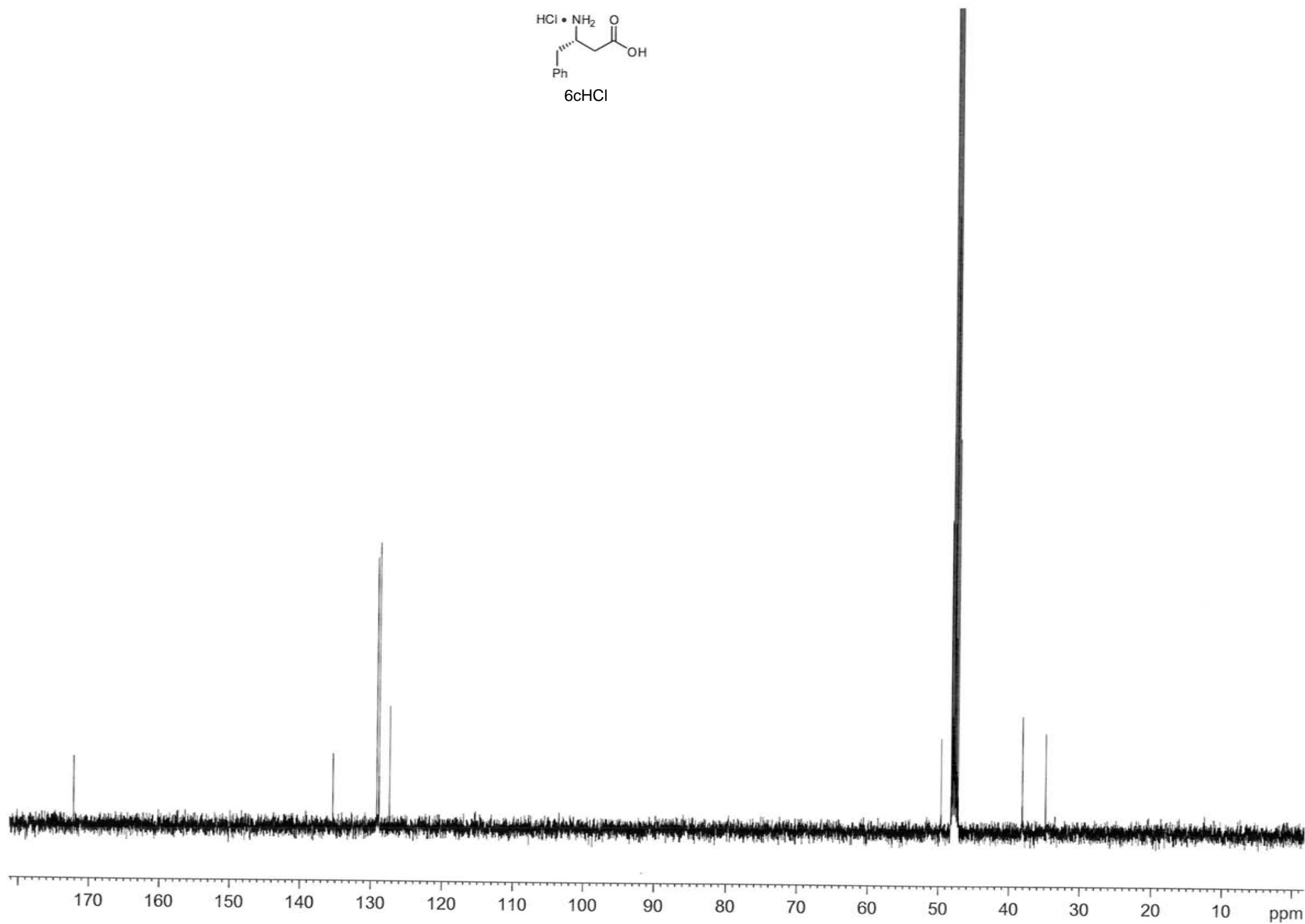
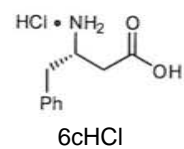


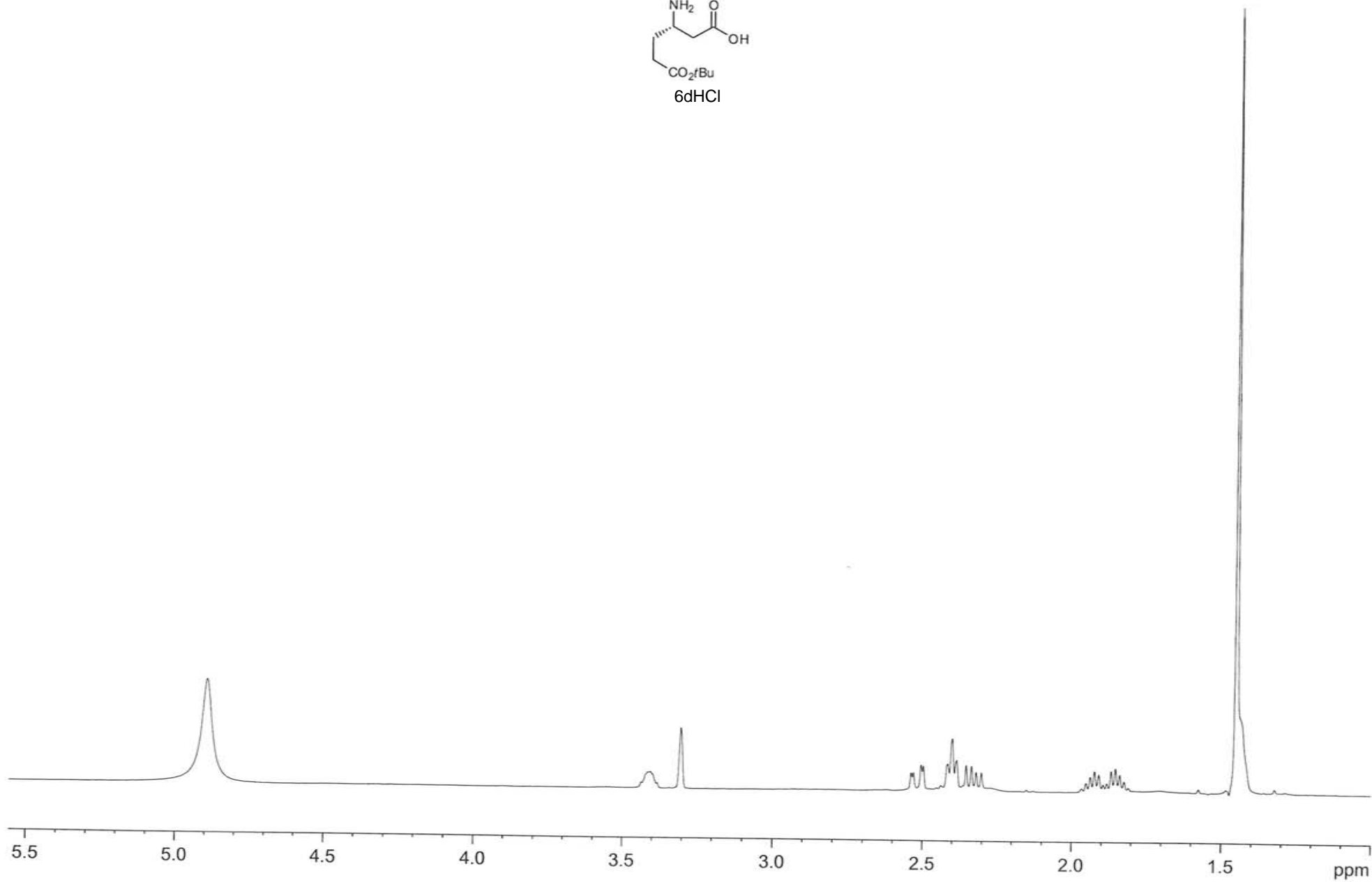
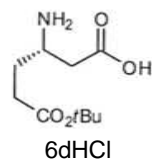


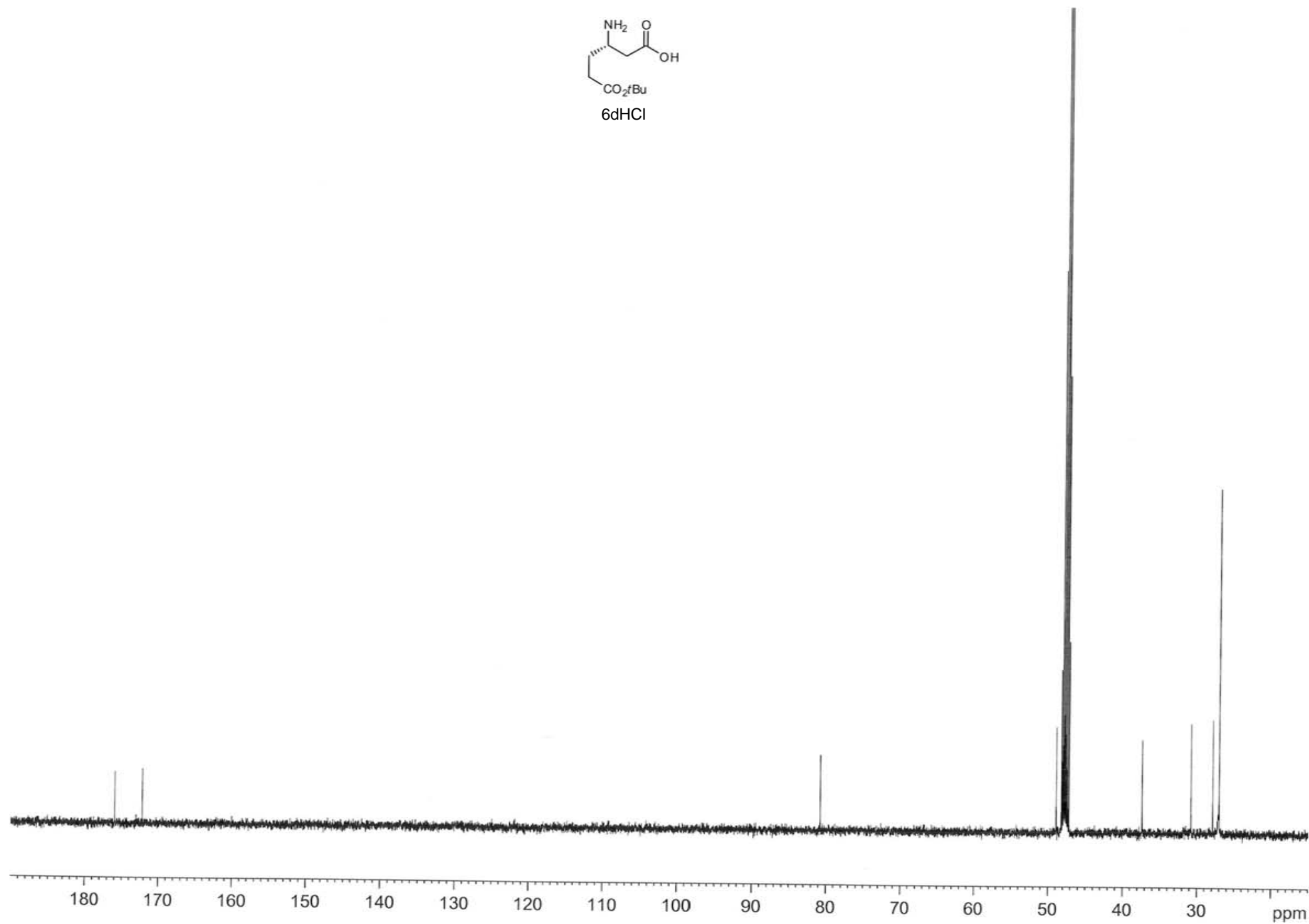
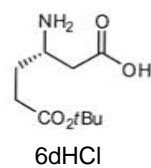


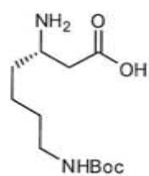




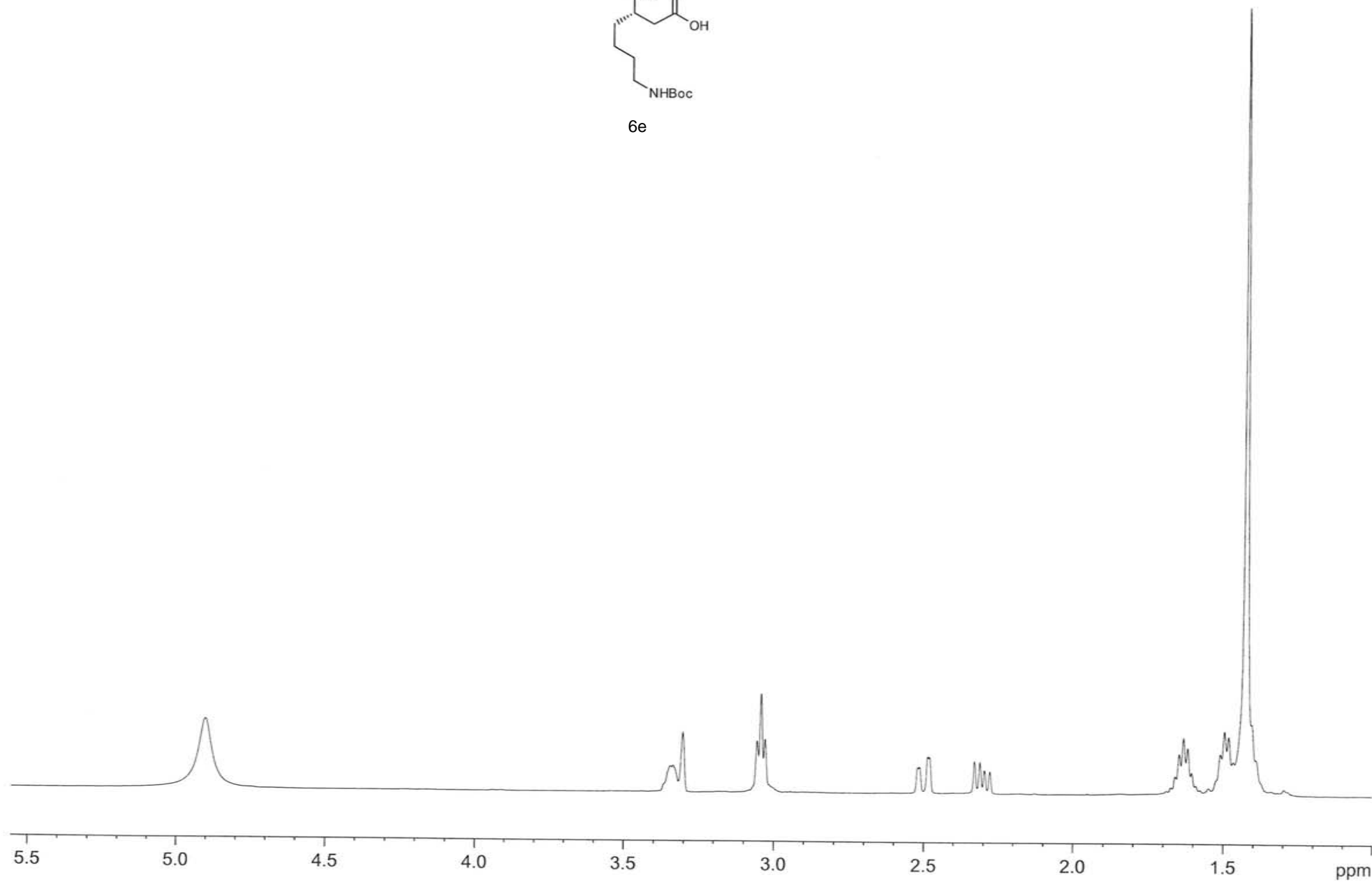


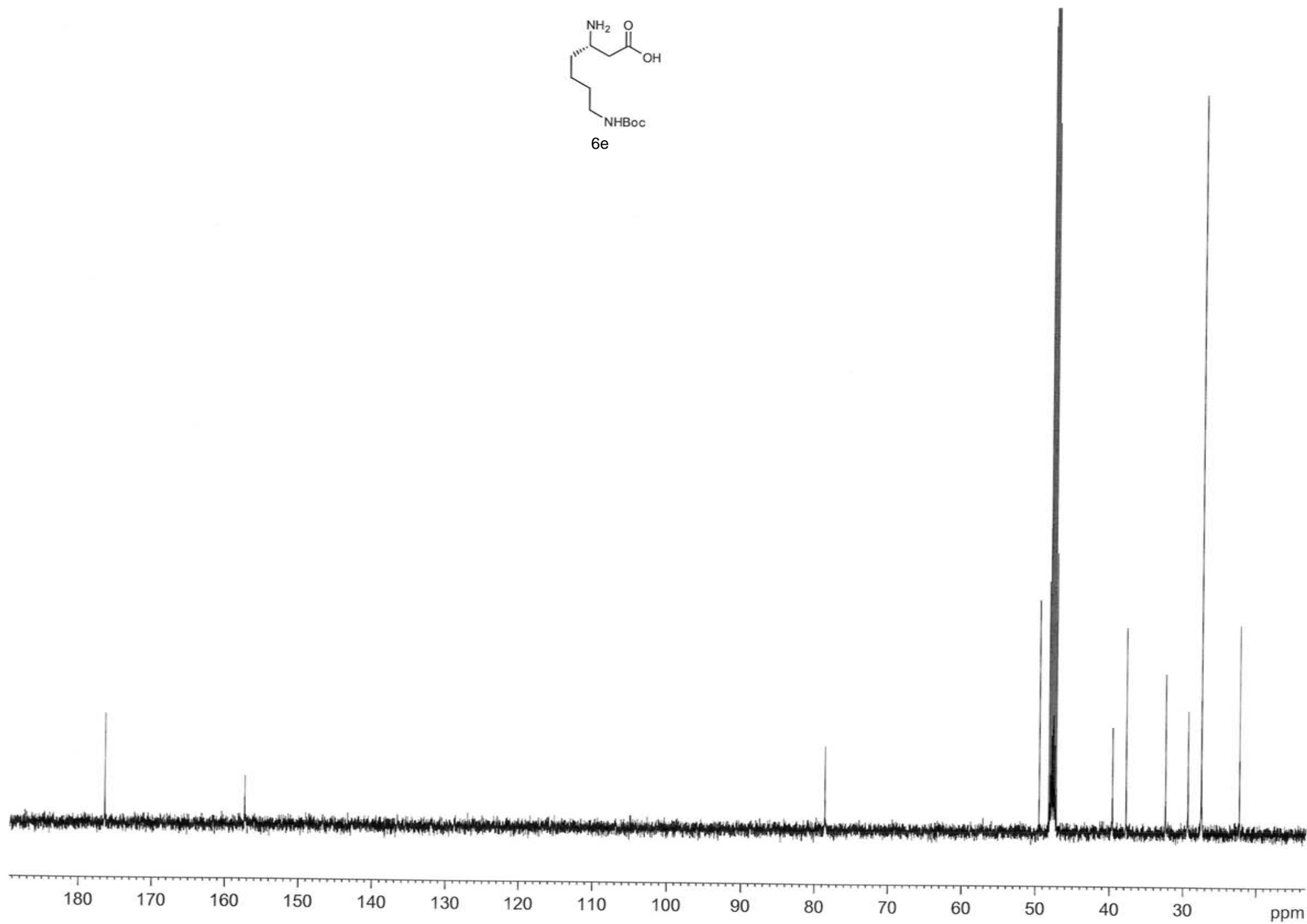
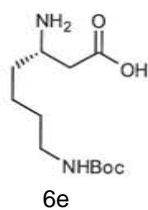


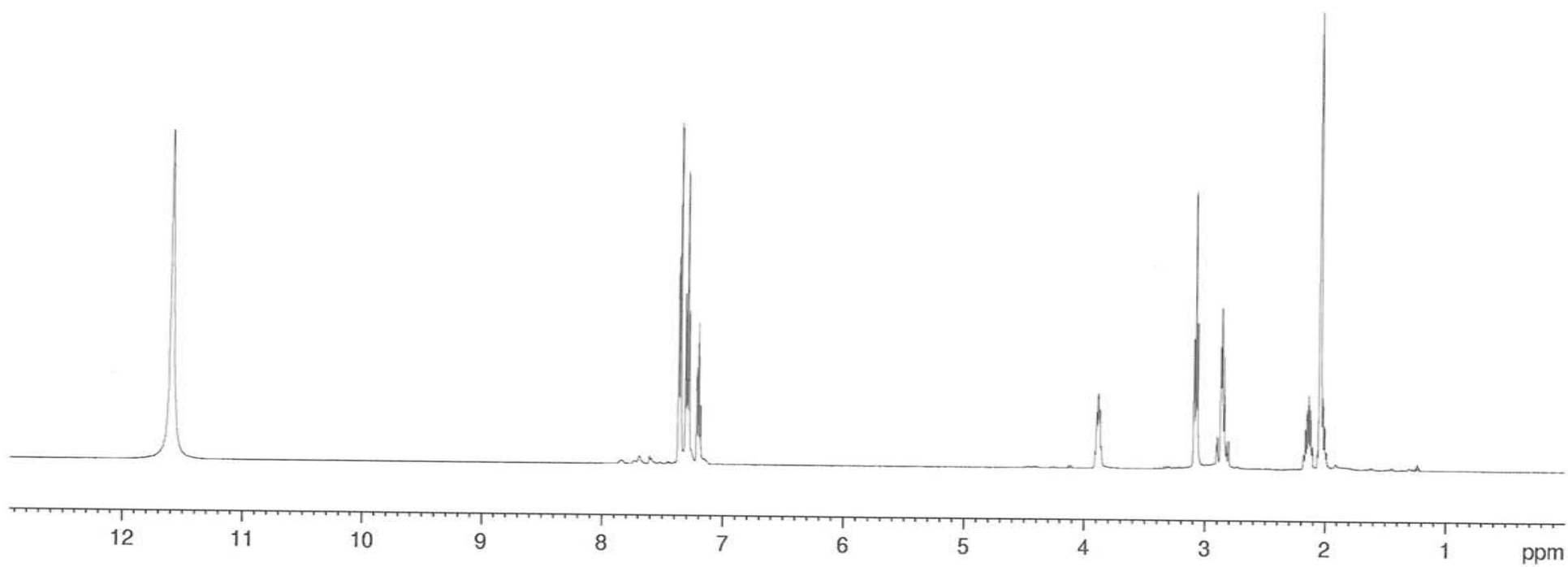
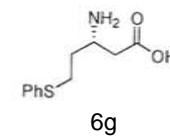


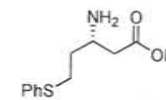


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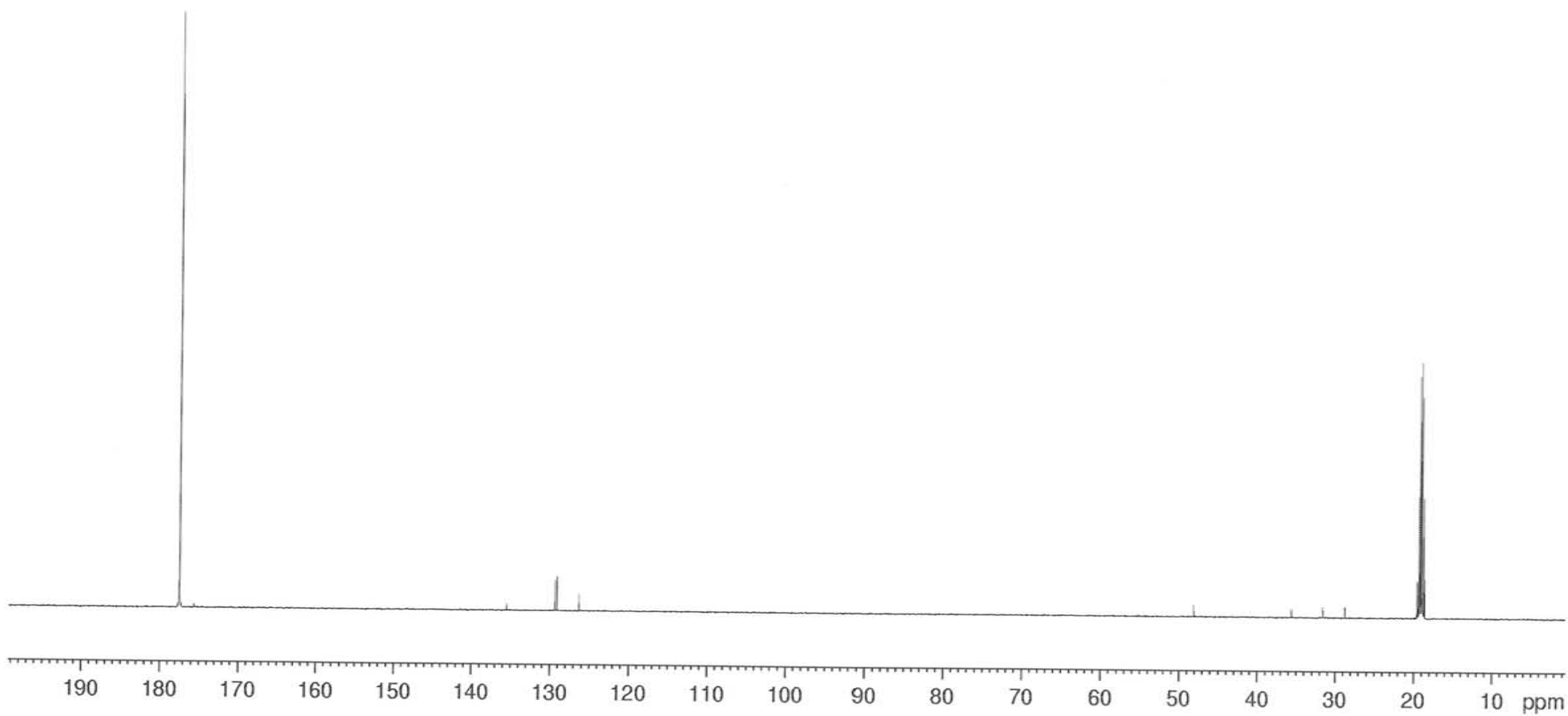


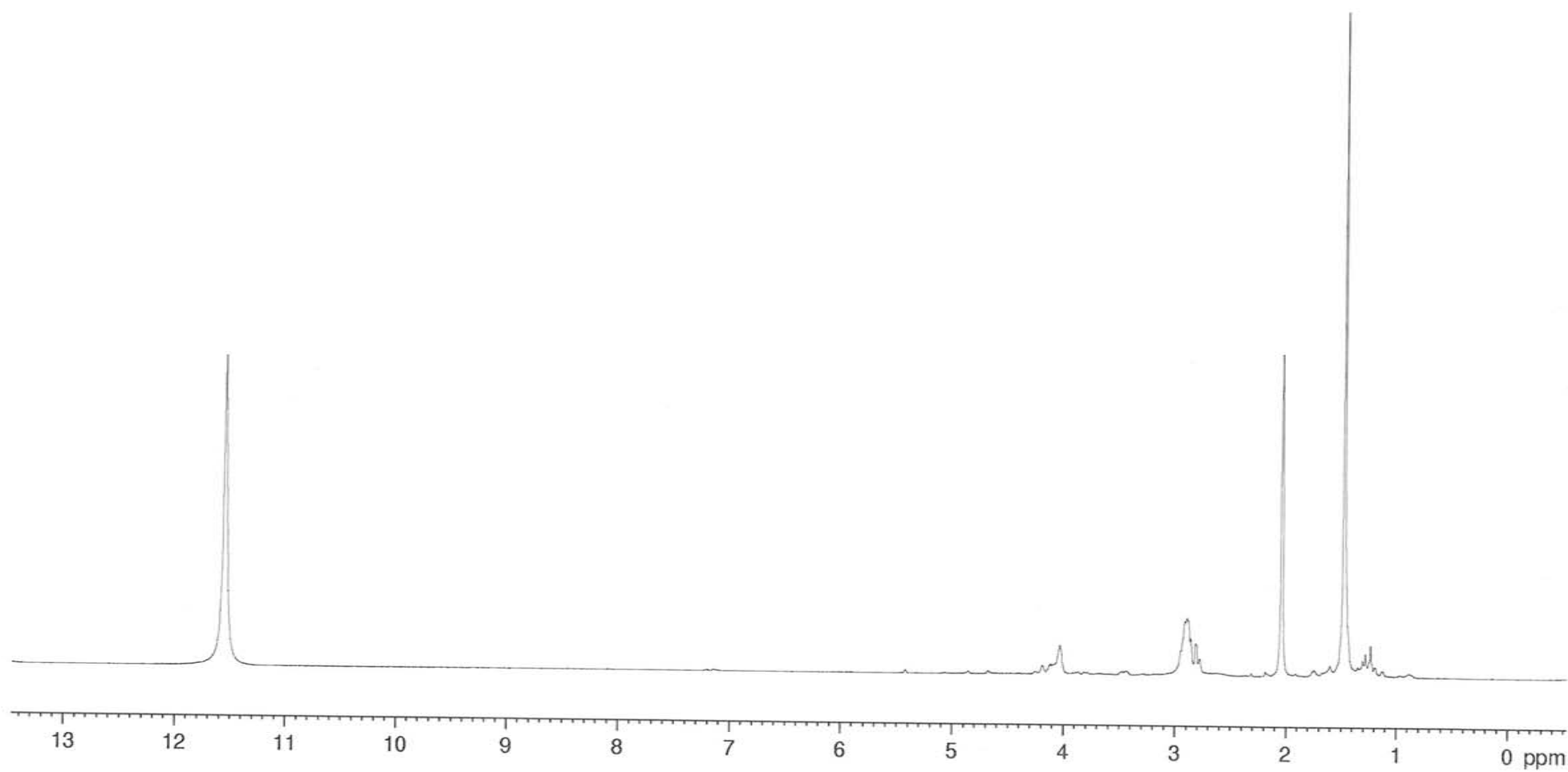
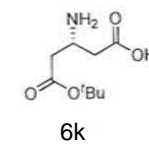


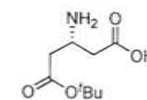




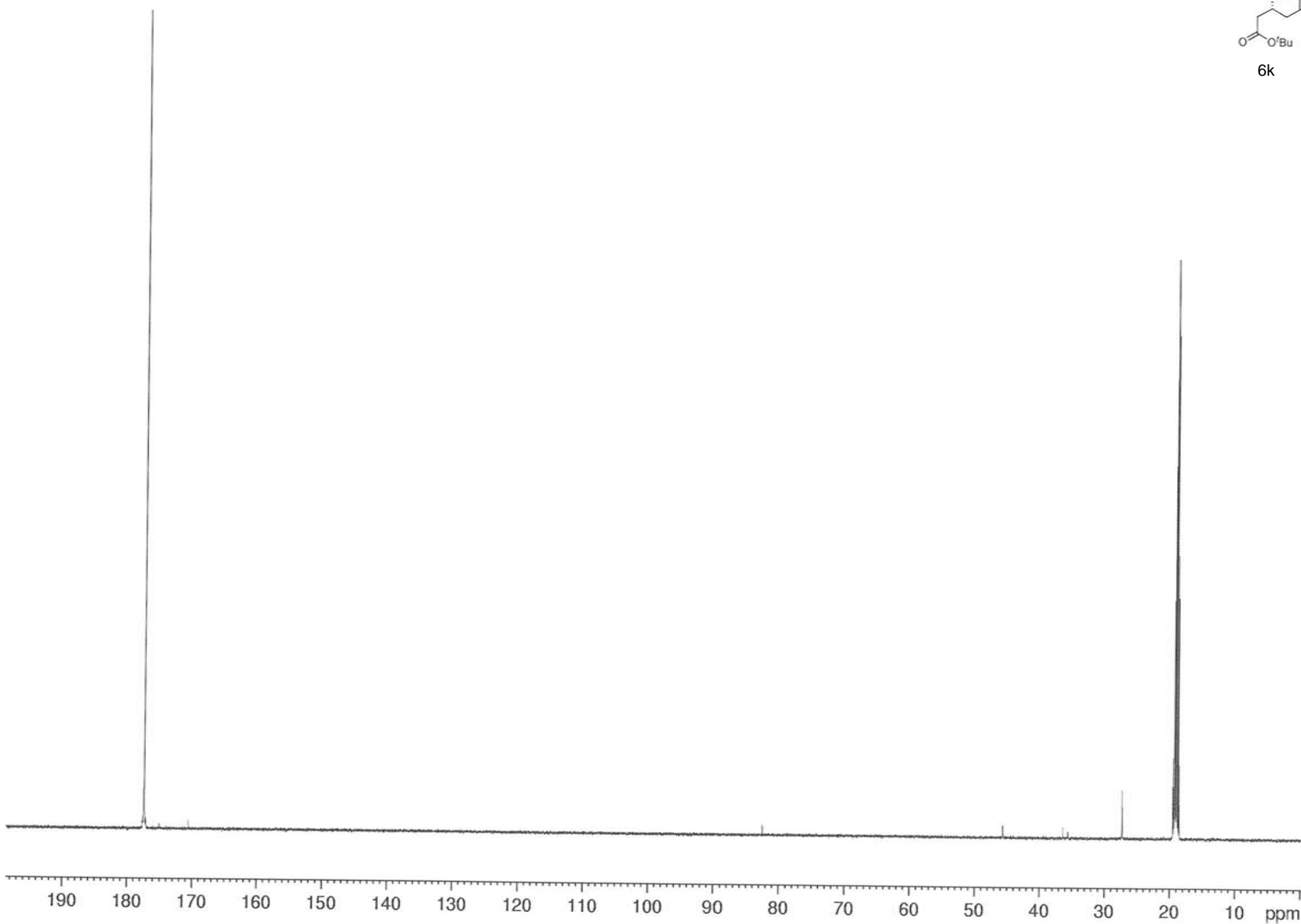
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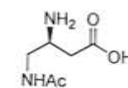




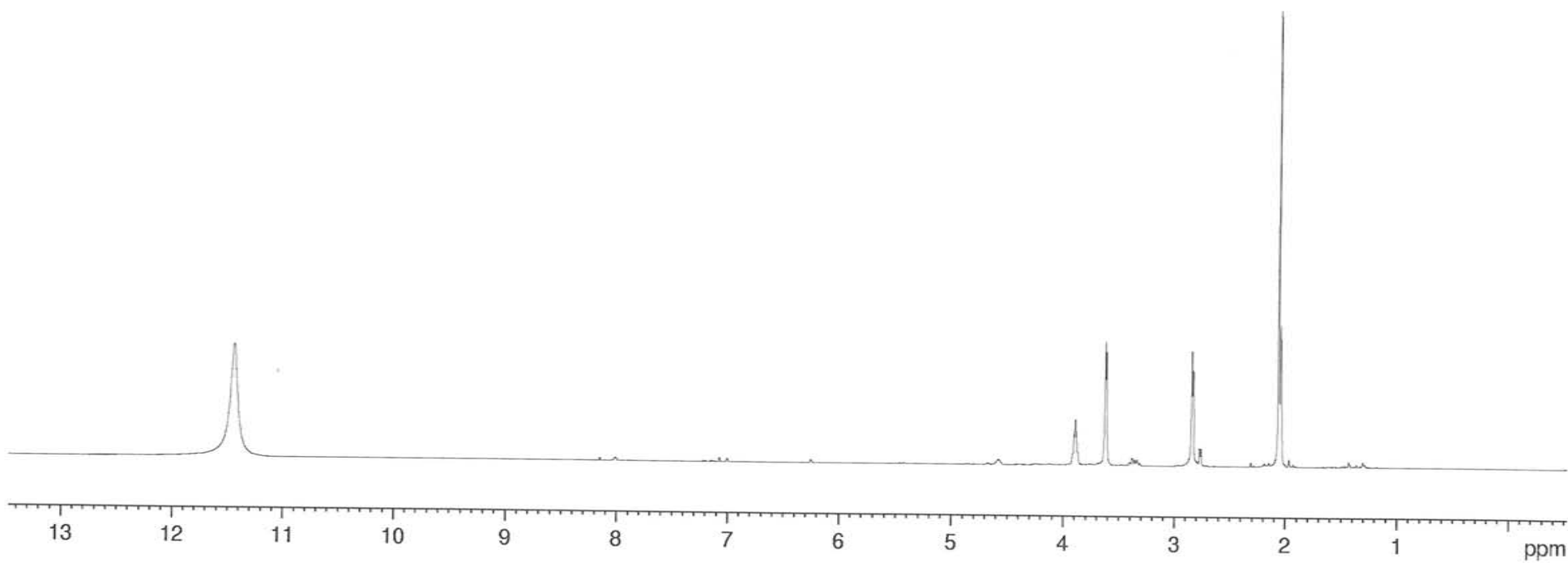


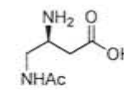
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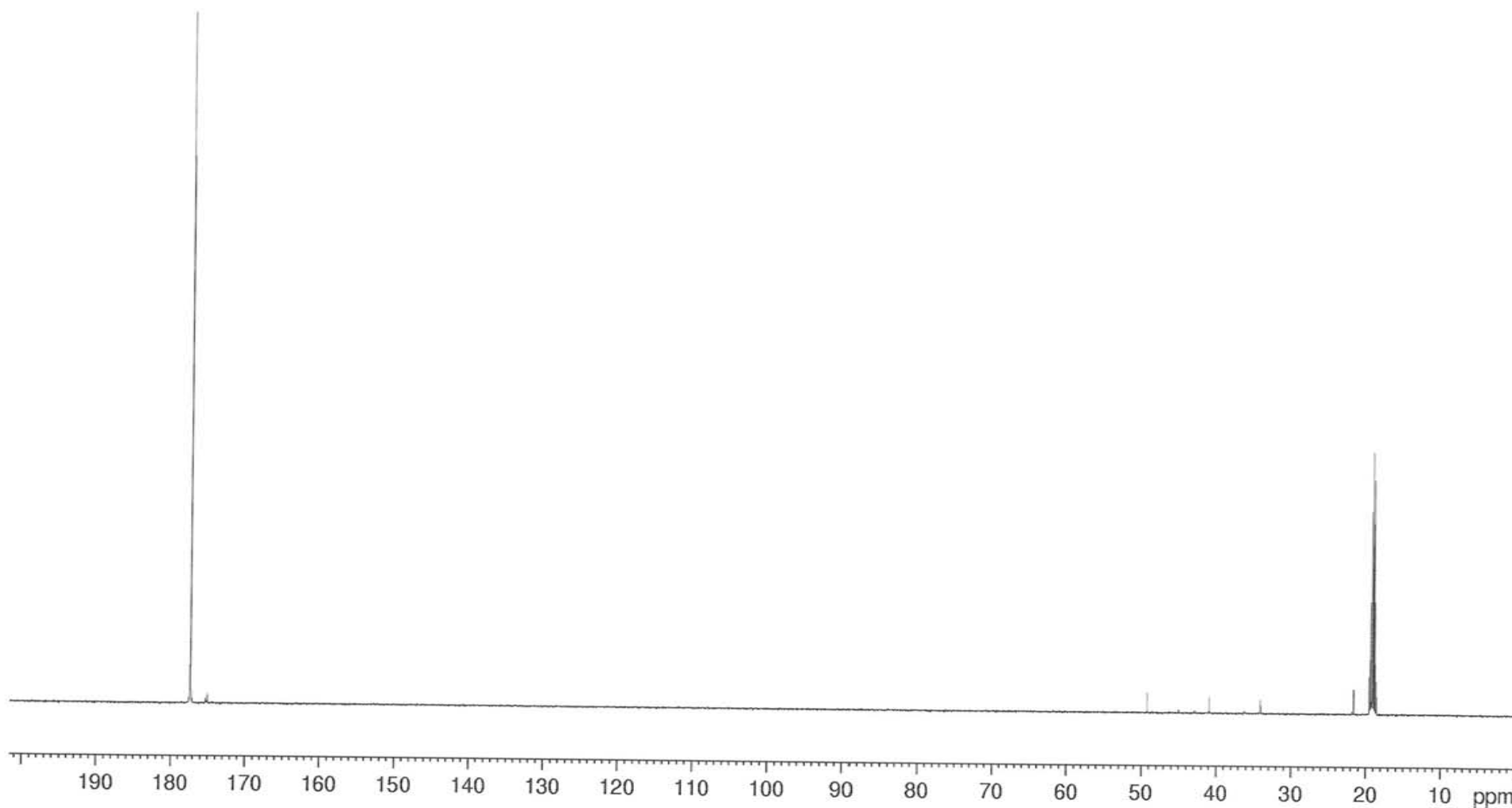


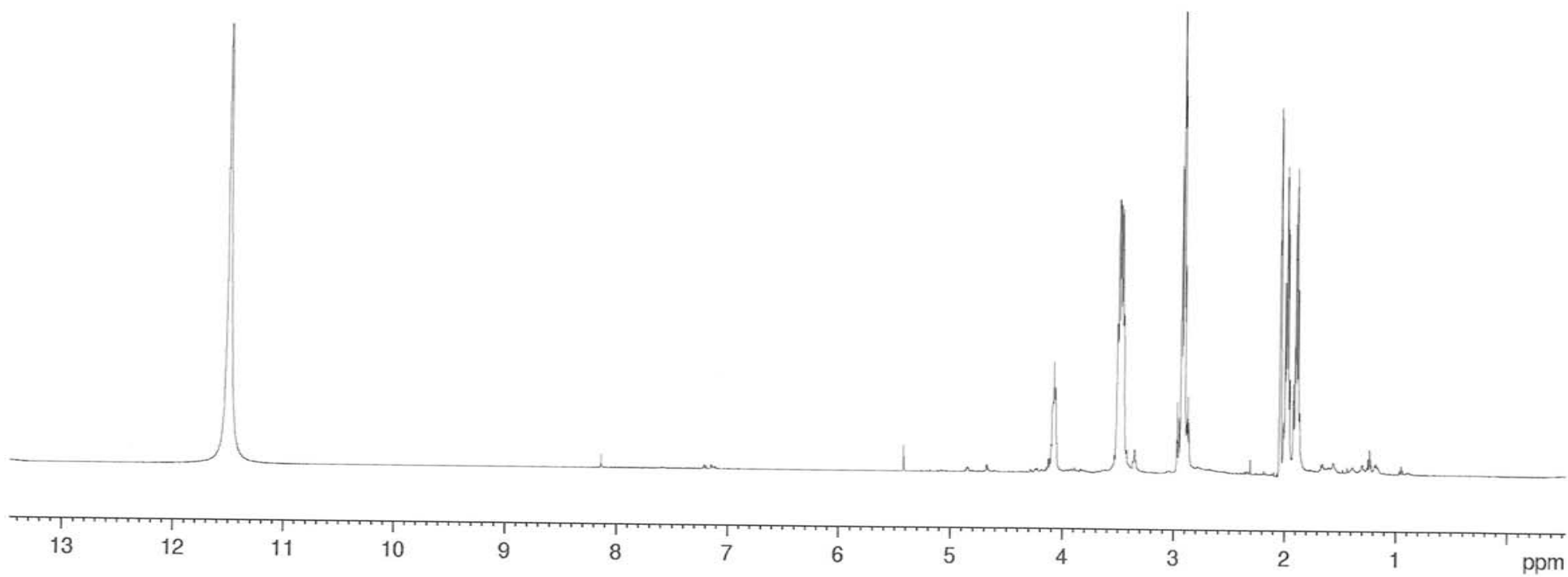
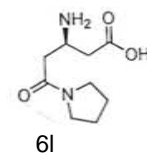
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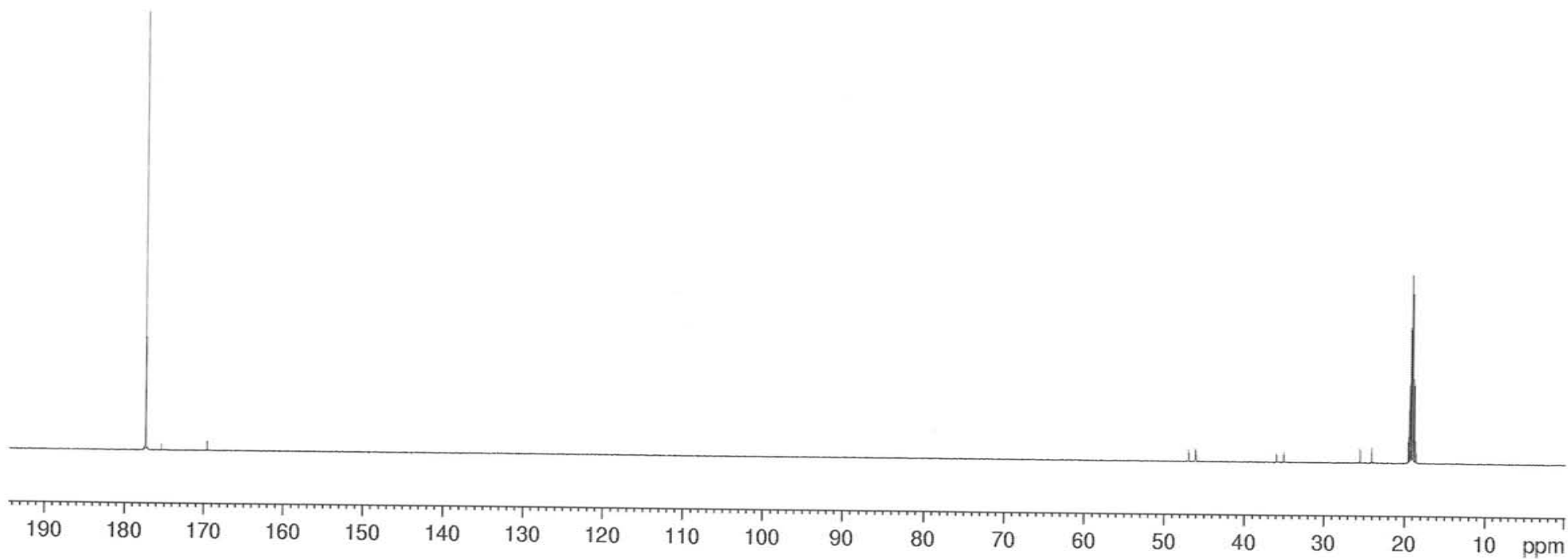
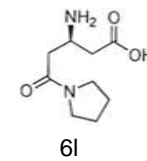


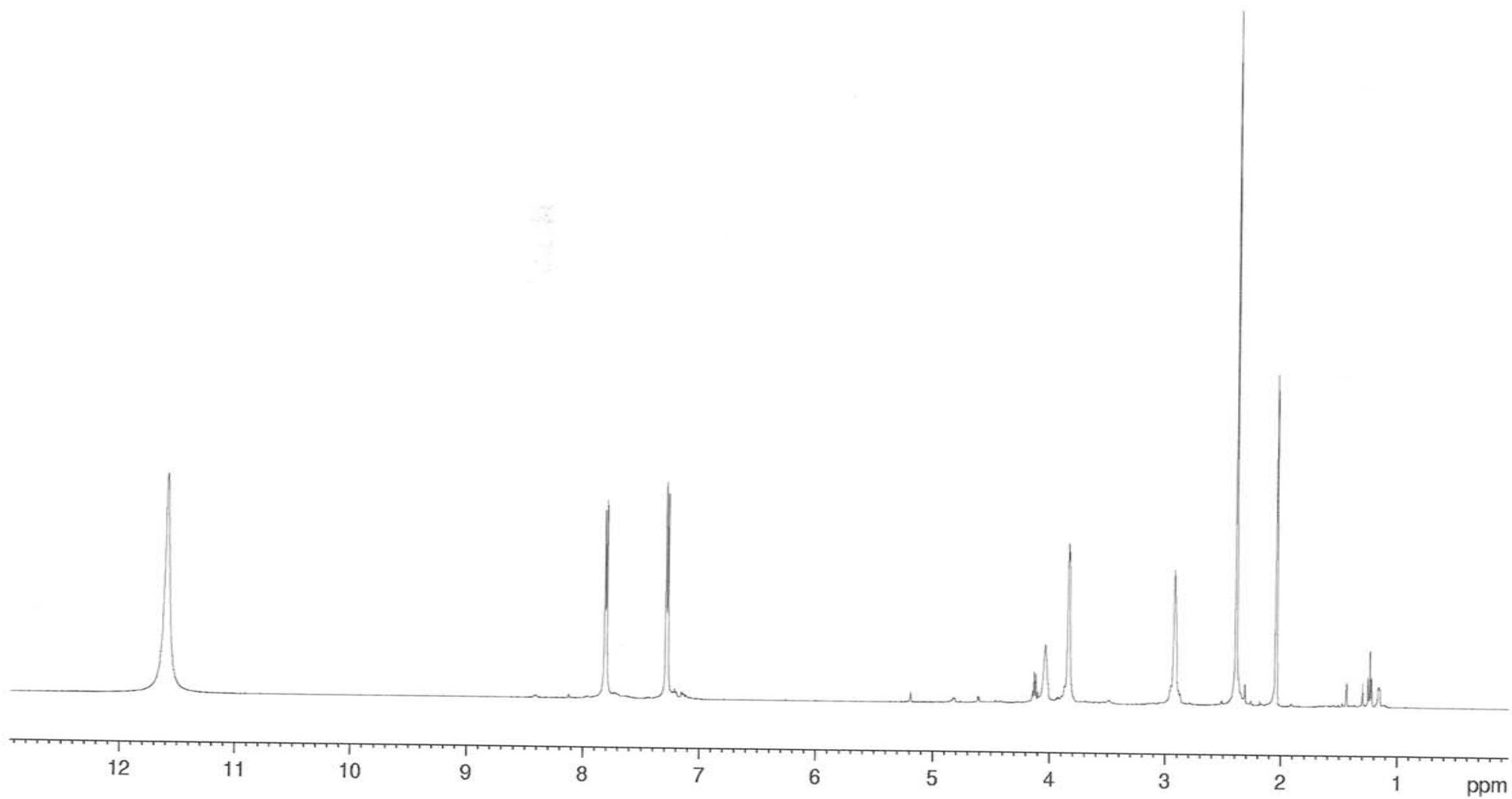
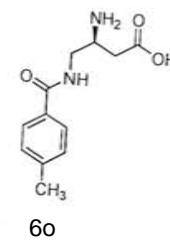


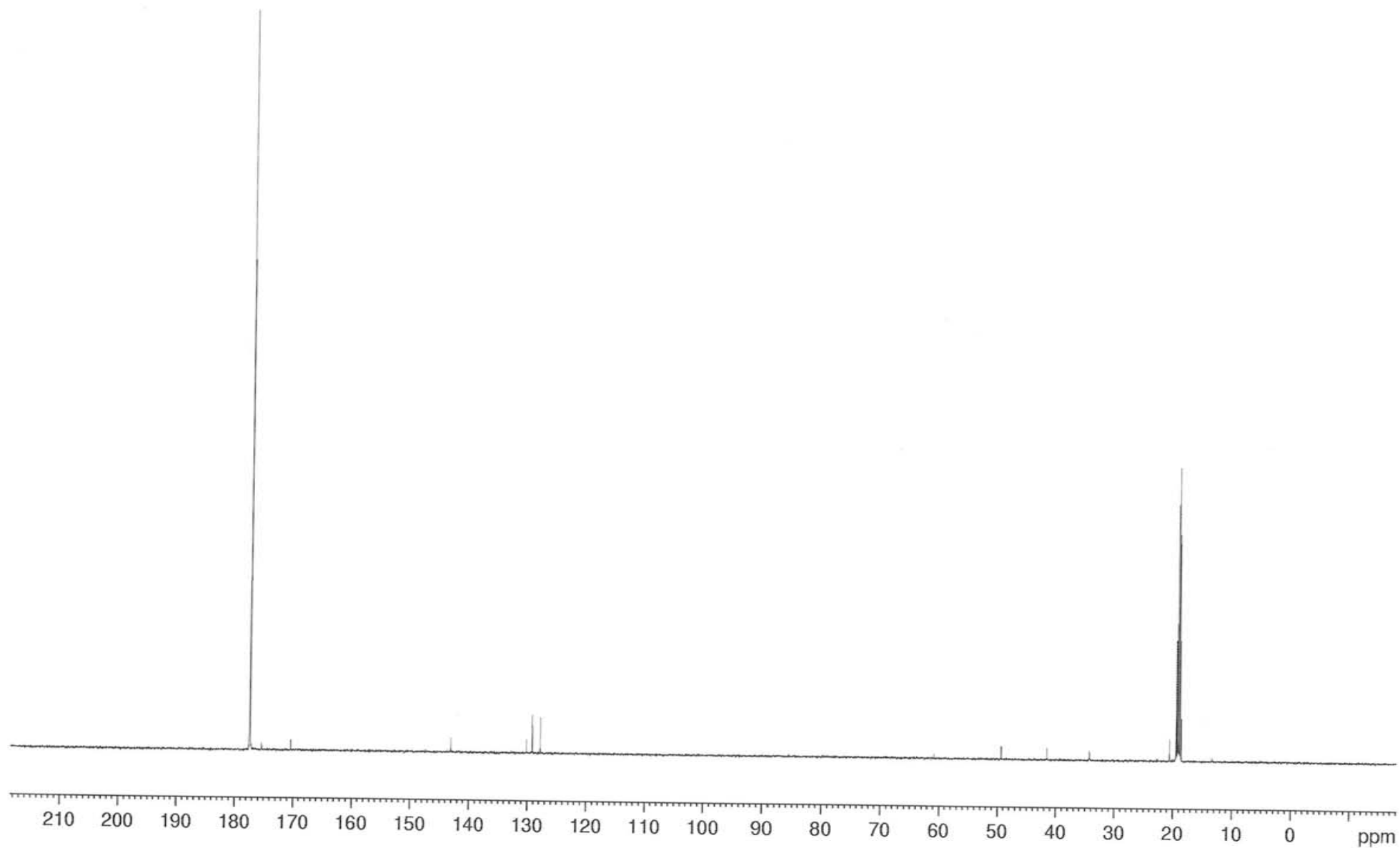
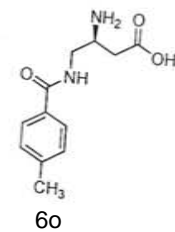
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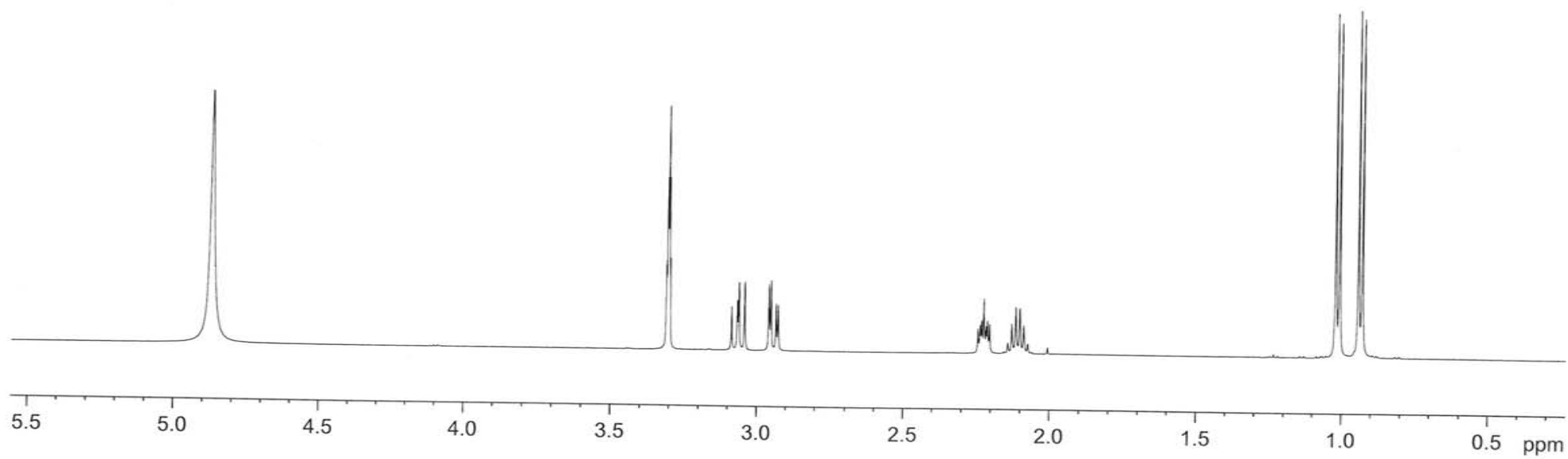
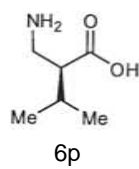


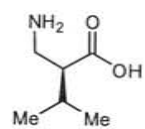




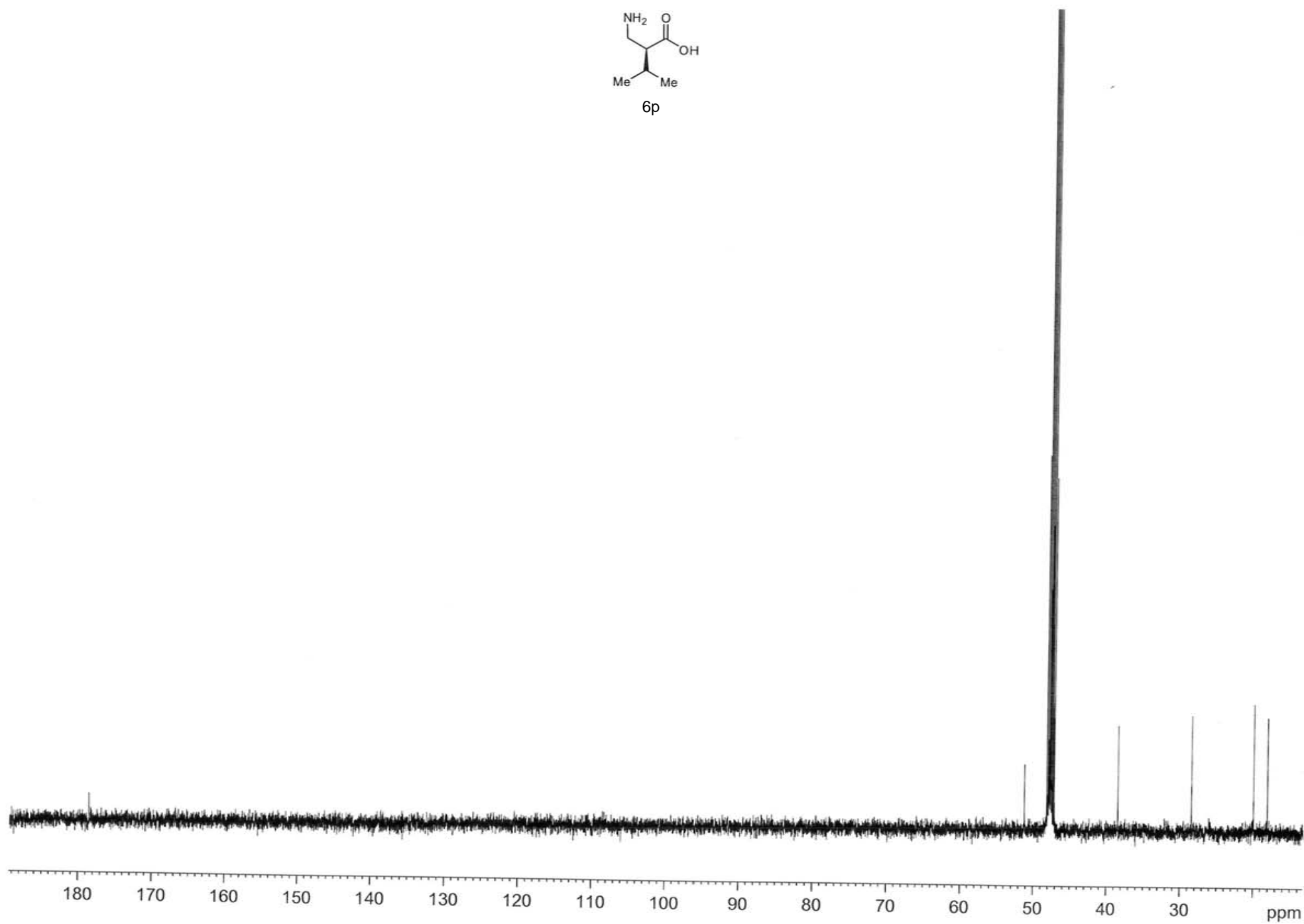


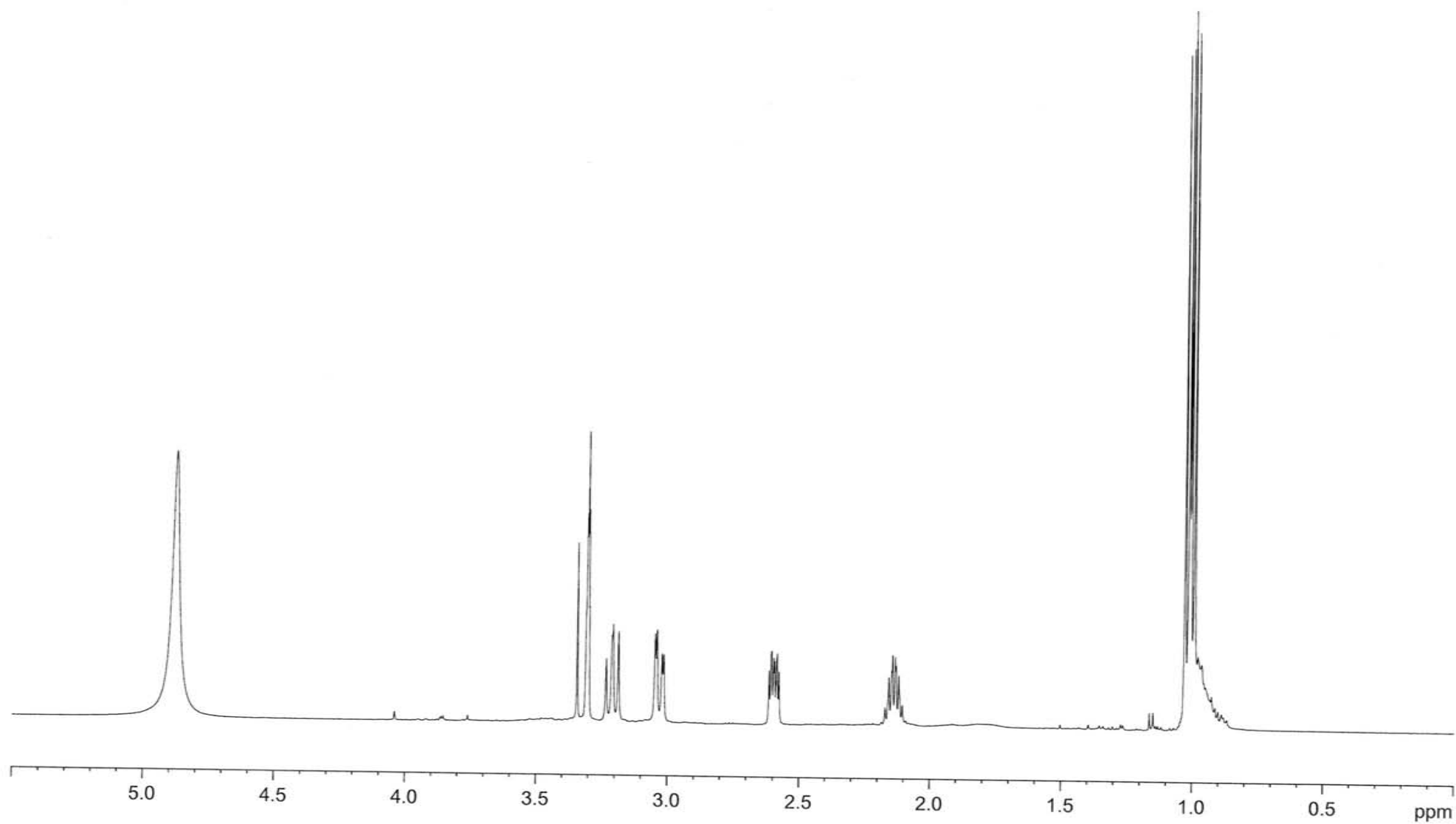
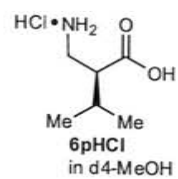


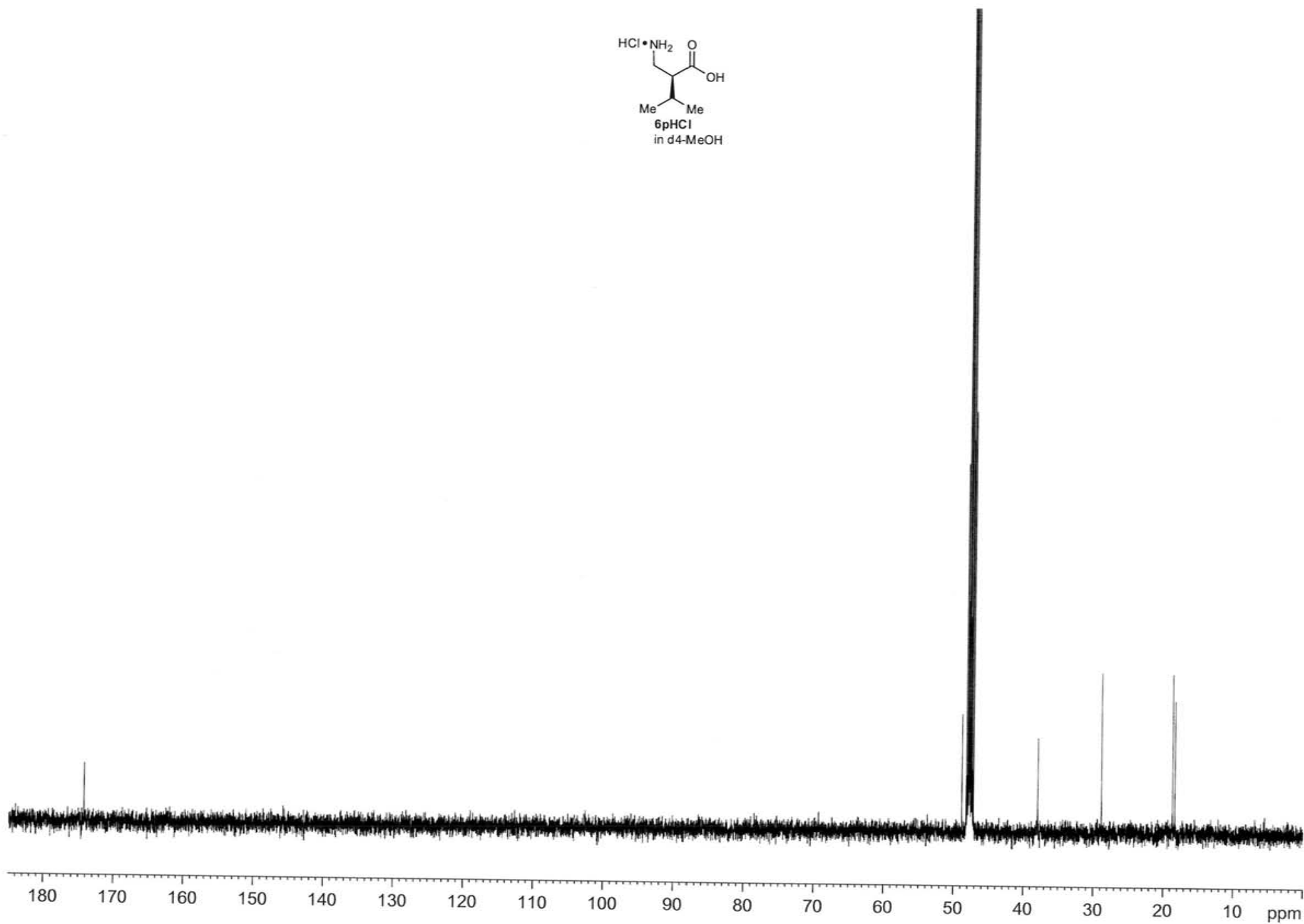
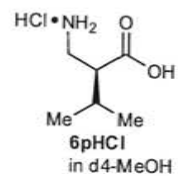


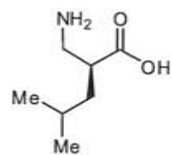


6p

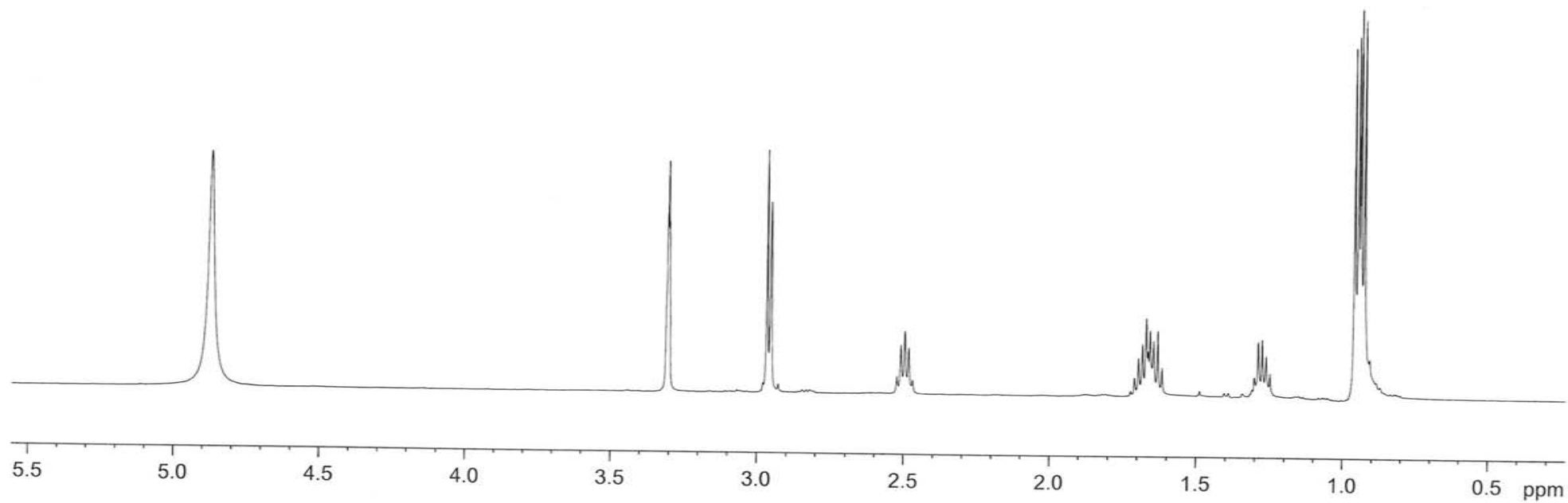


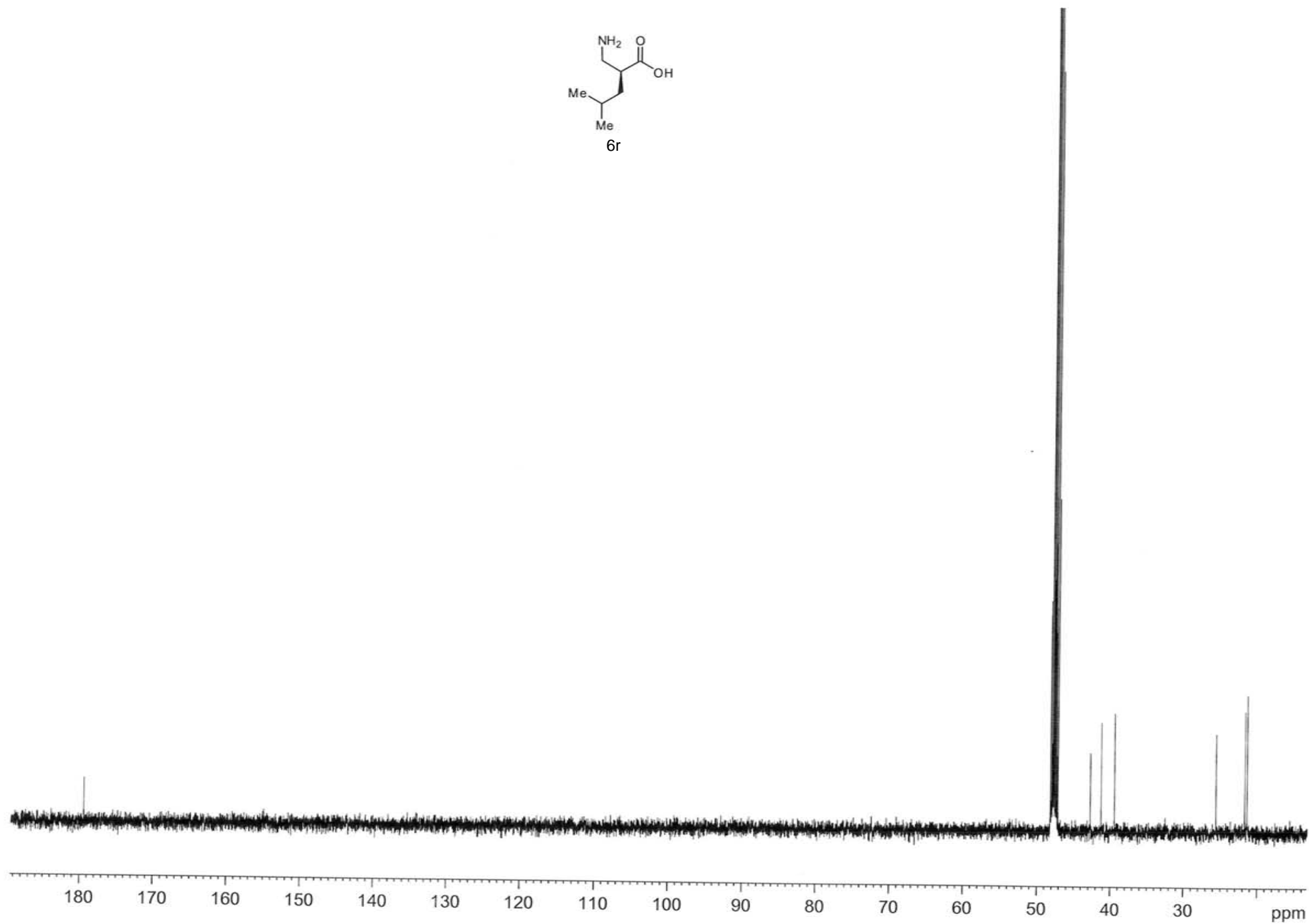
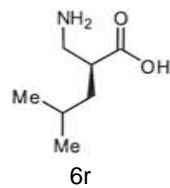


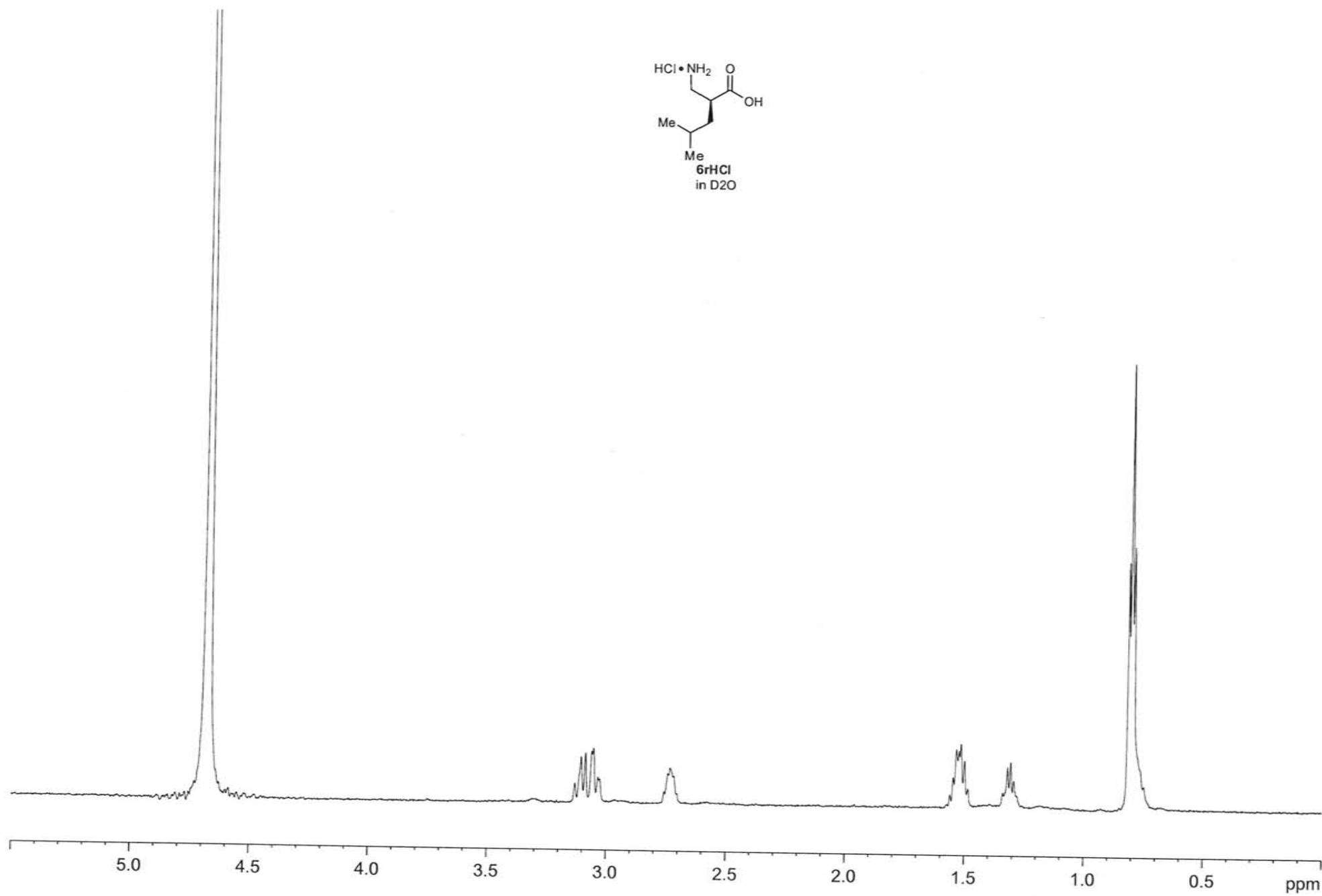


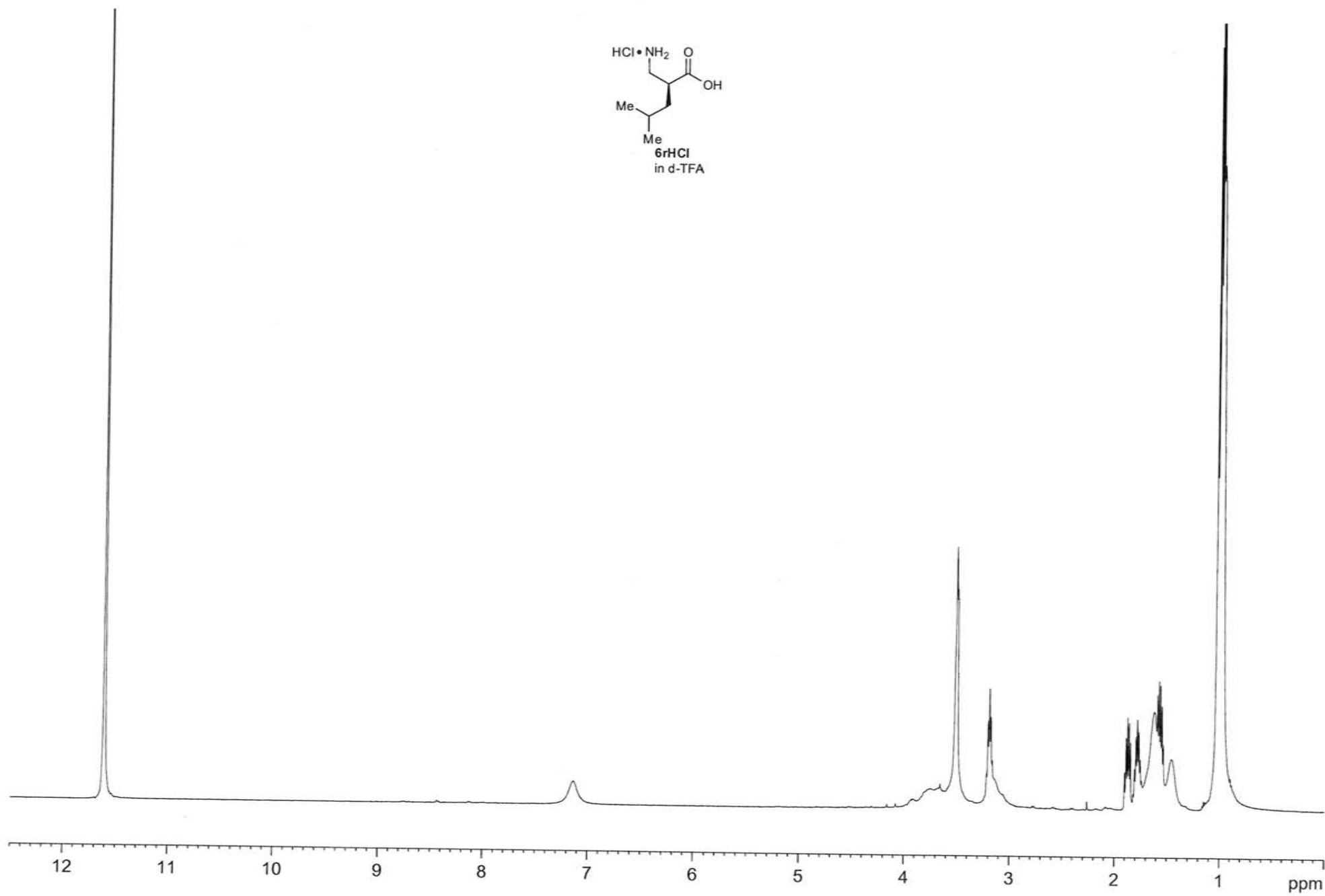


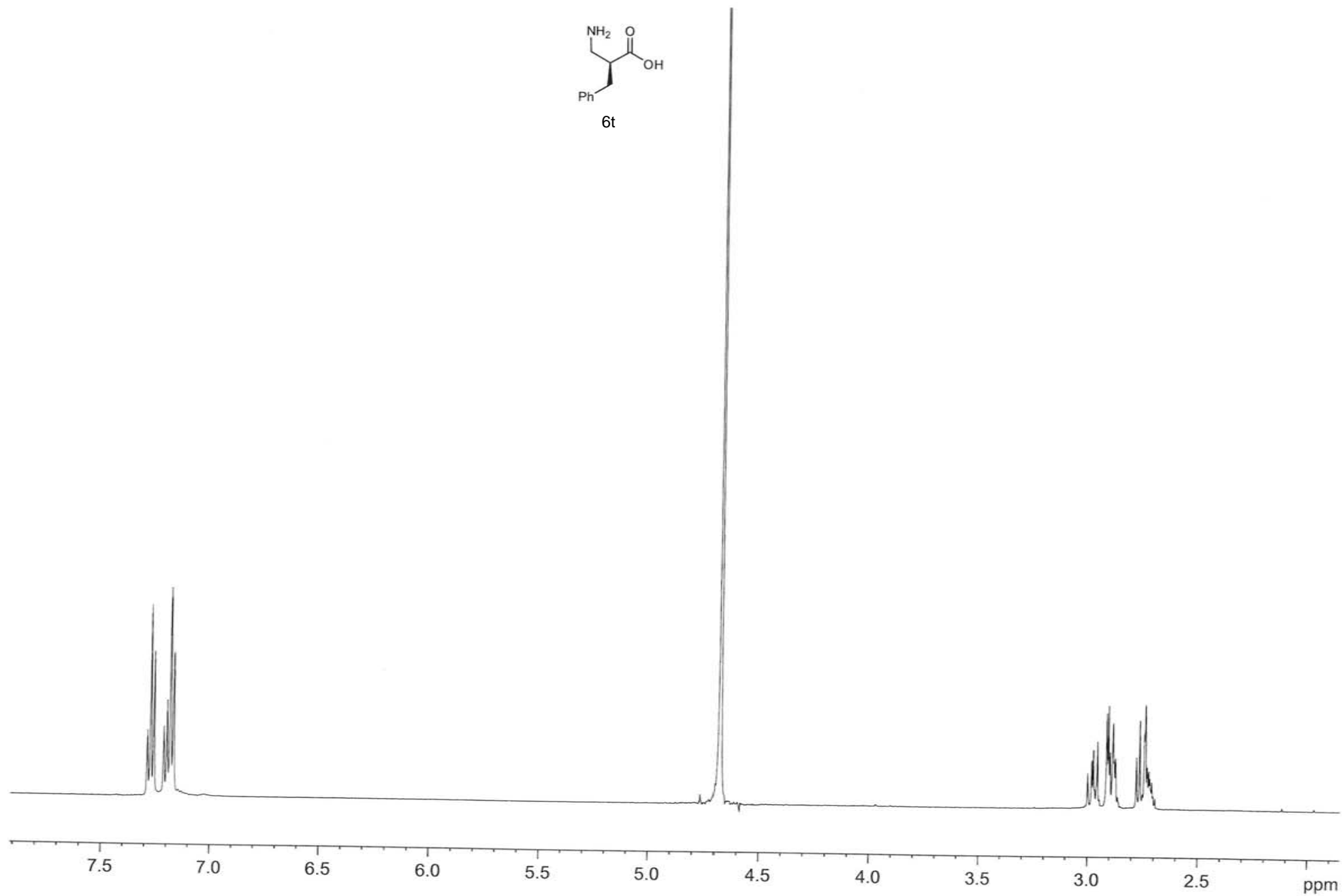
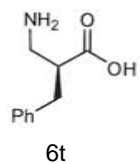
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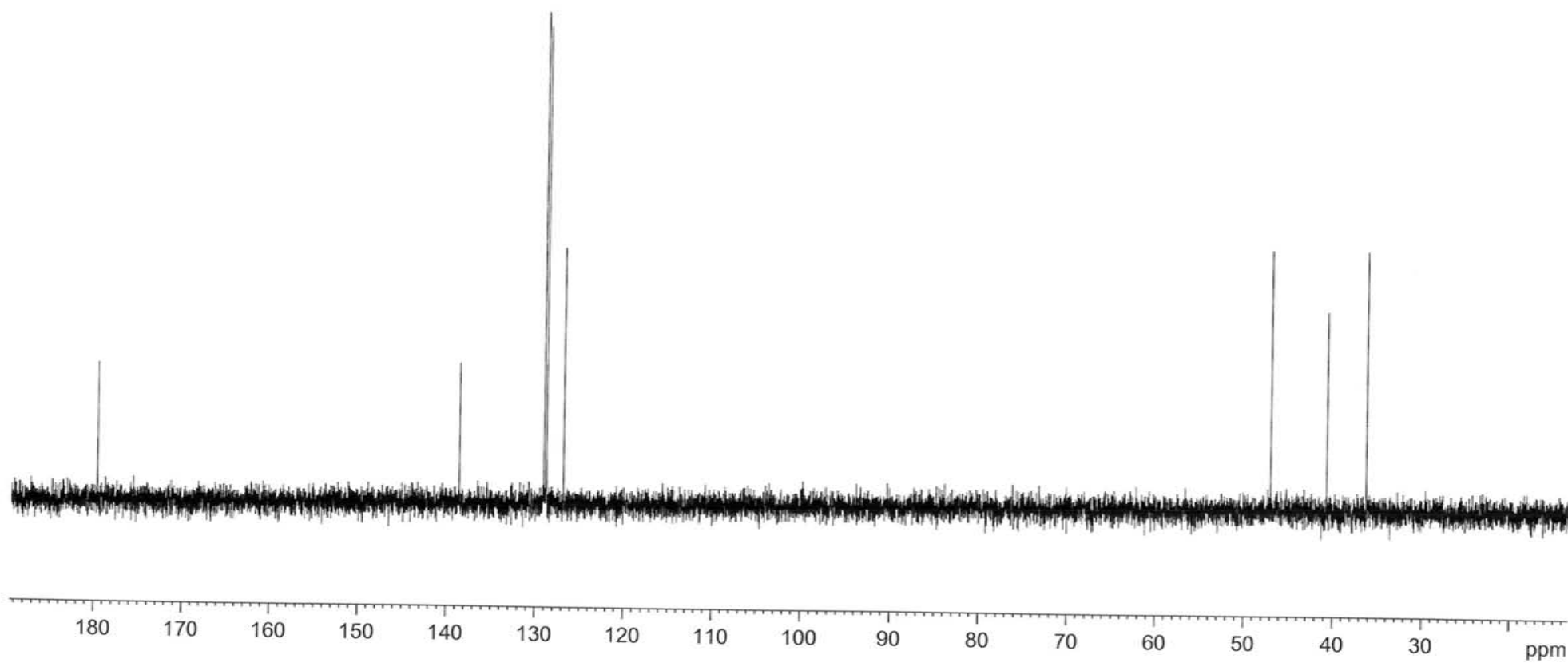
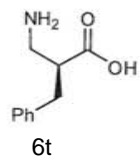


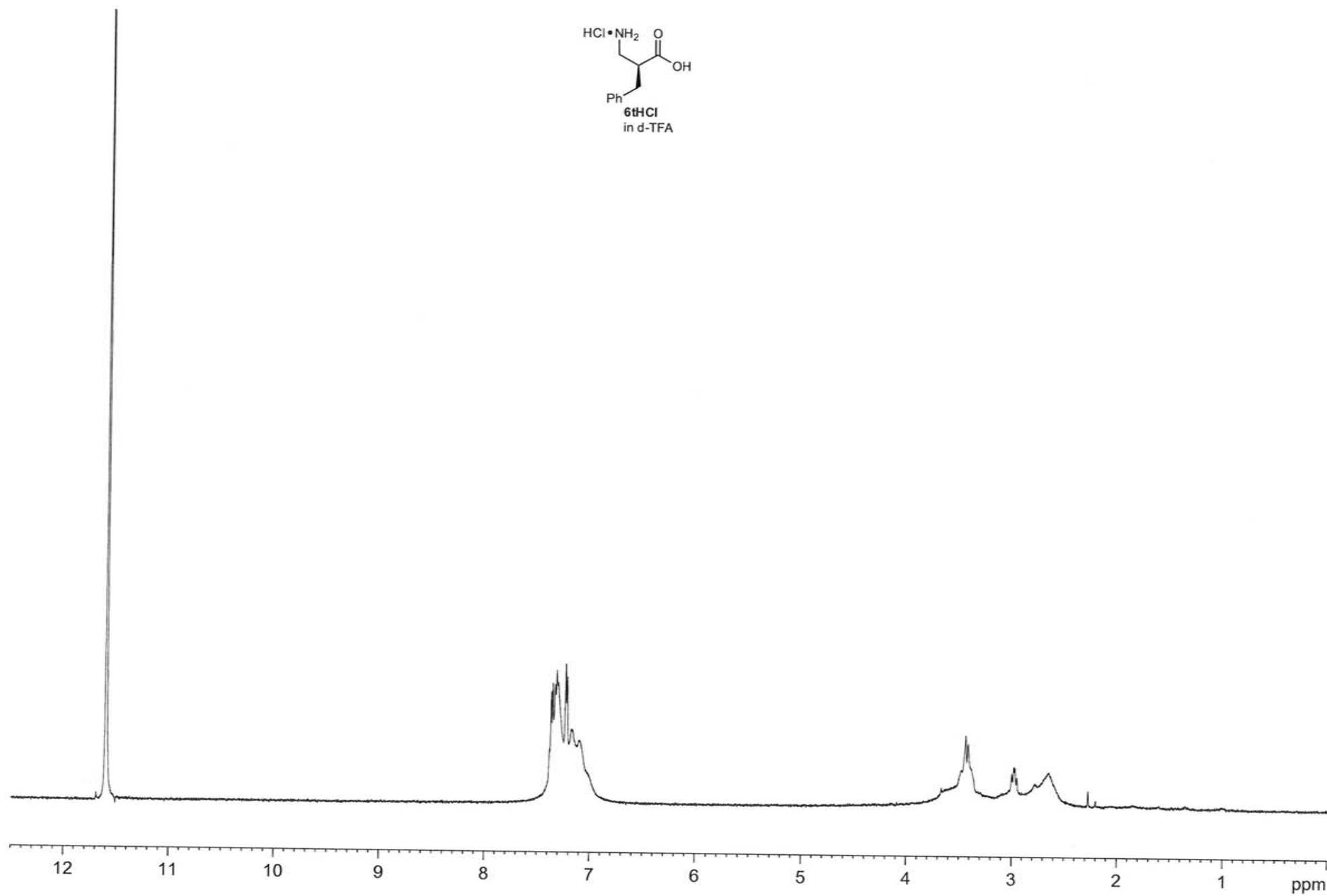
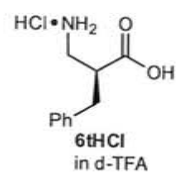


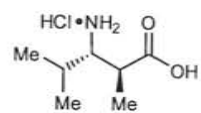




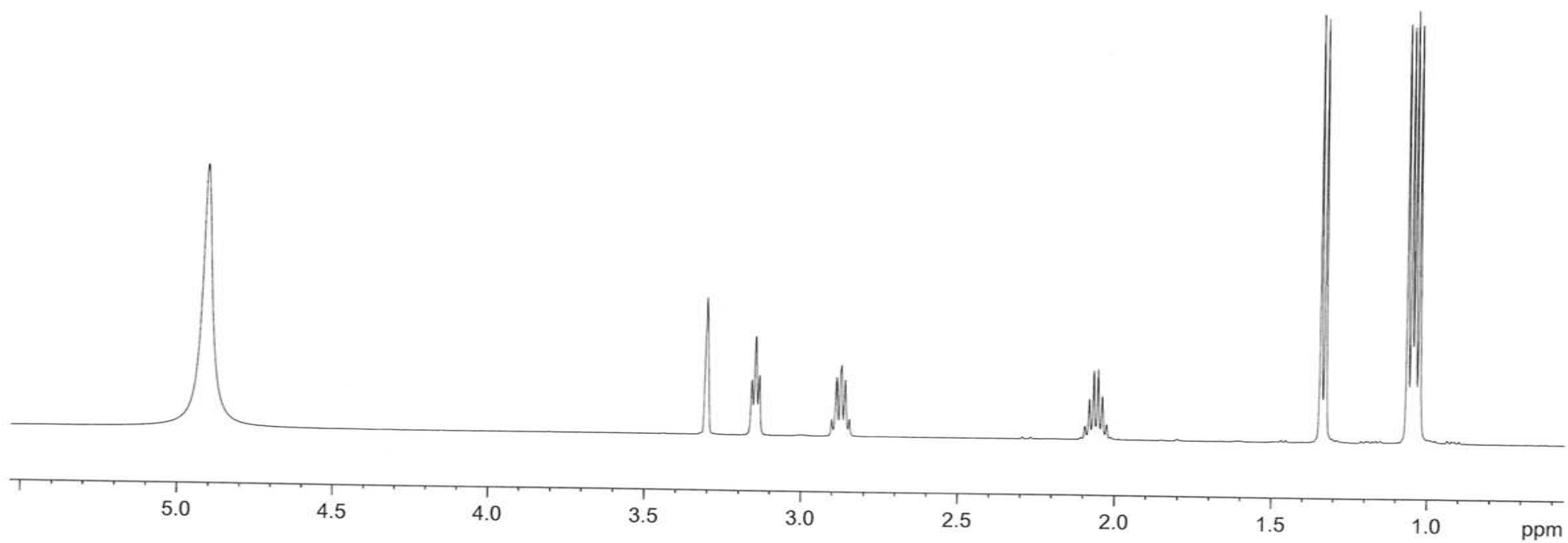


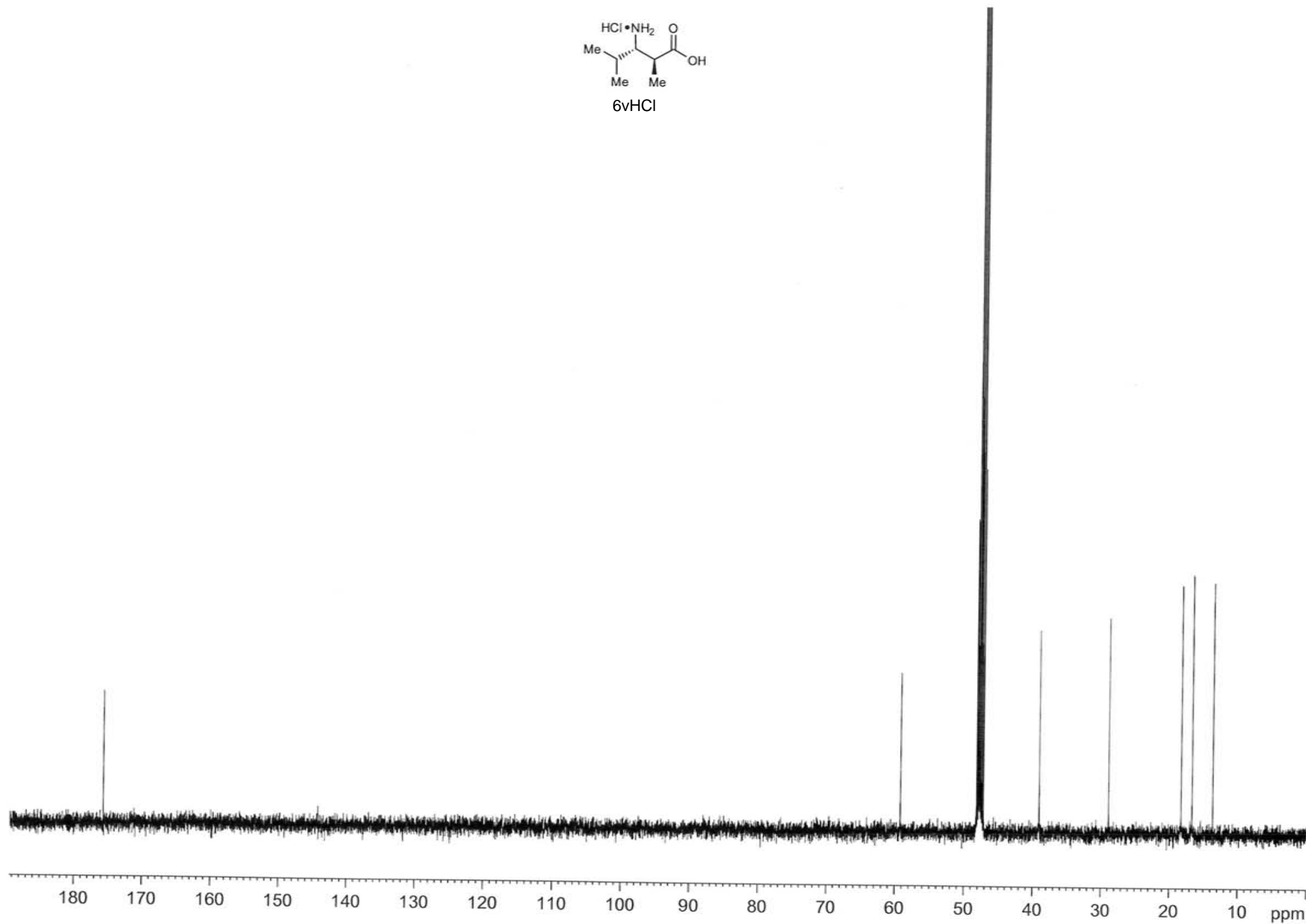
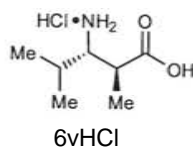


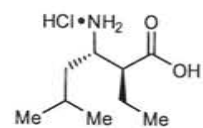




6vHCl







6wHCl

