

# One-pot synthesis of enantiopure 3,4-dihydroisocoumarines through dynamic reductive kinetic resolution processes

Juan Mangas-Sánchez, Eduardo Busto, Vicente Gotor and Vicente Gotor-Fernández\*

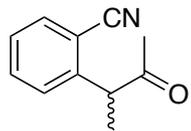
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vicgotfer@uniovi.es

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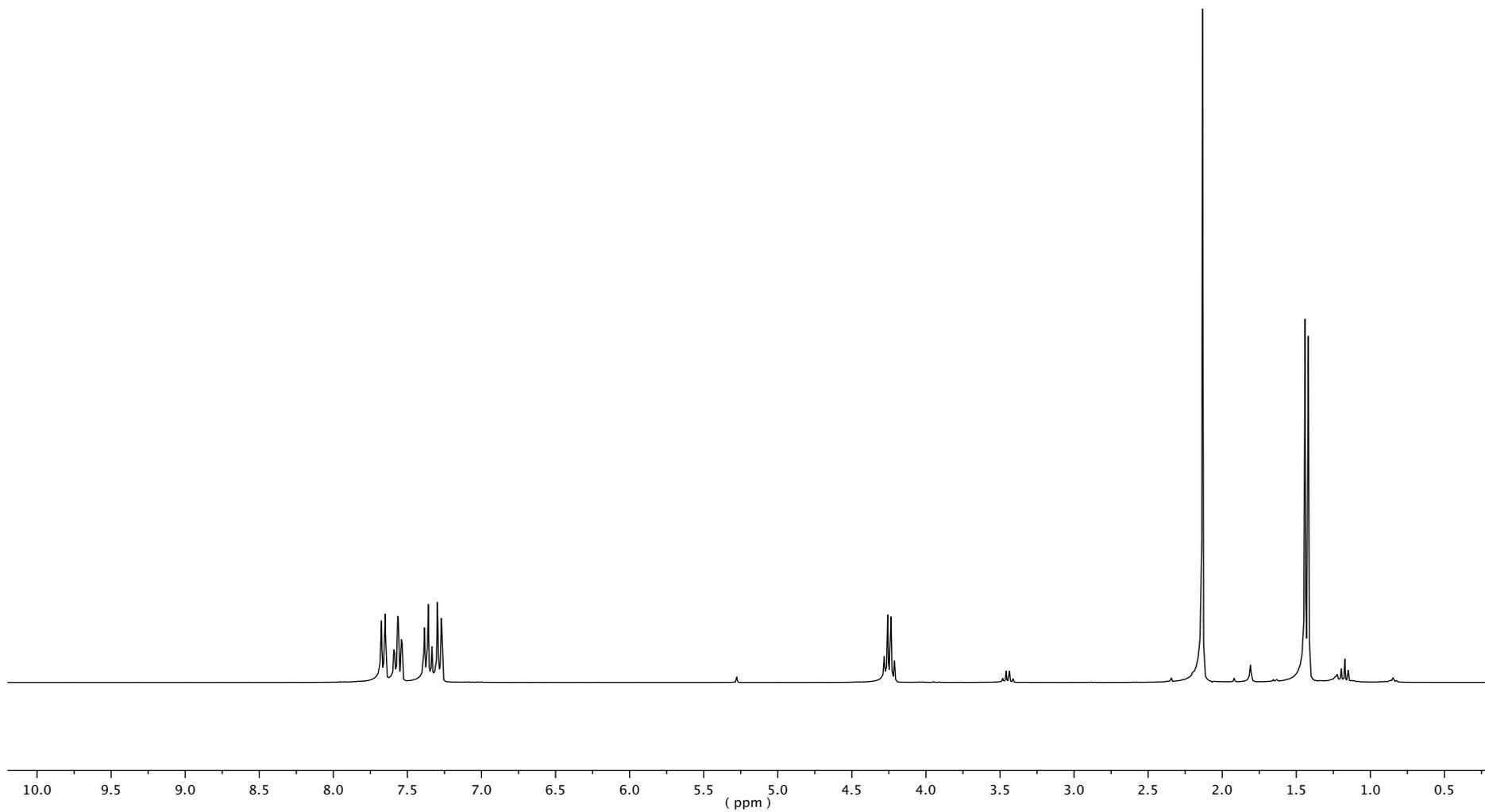
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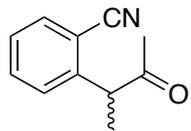
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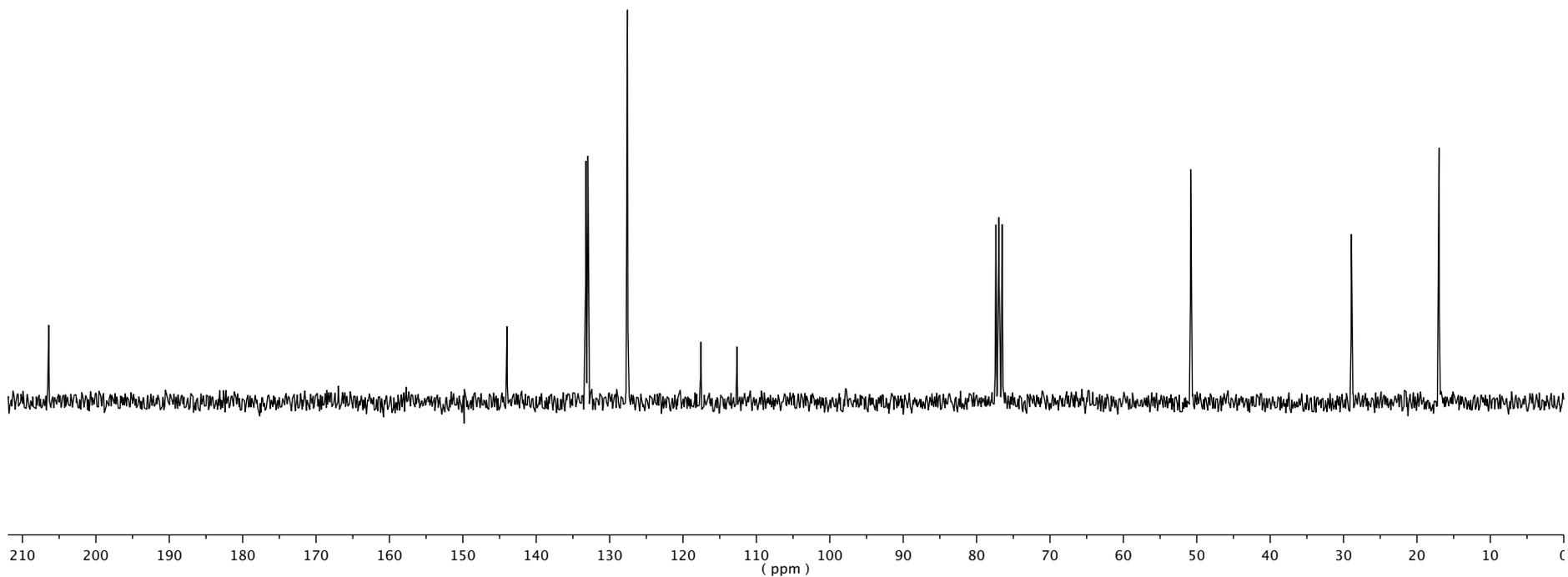


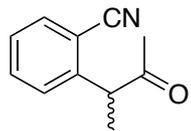
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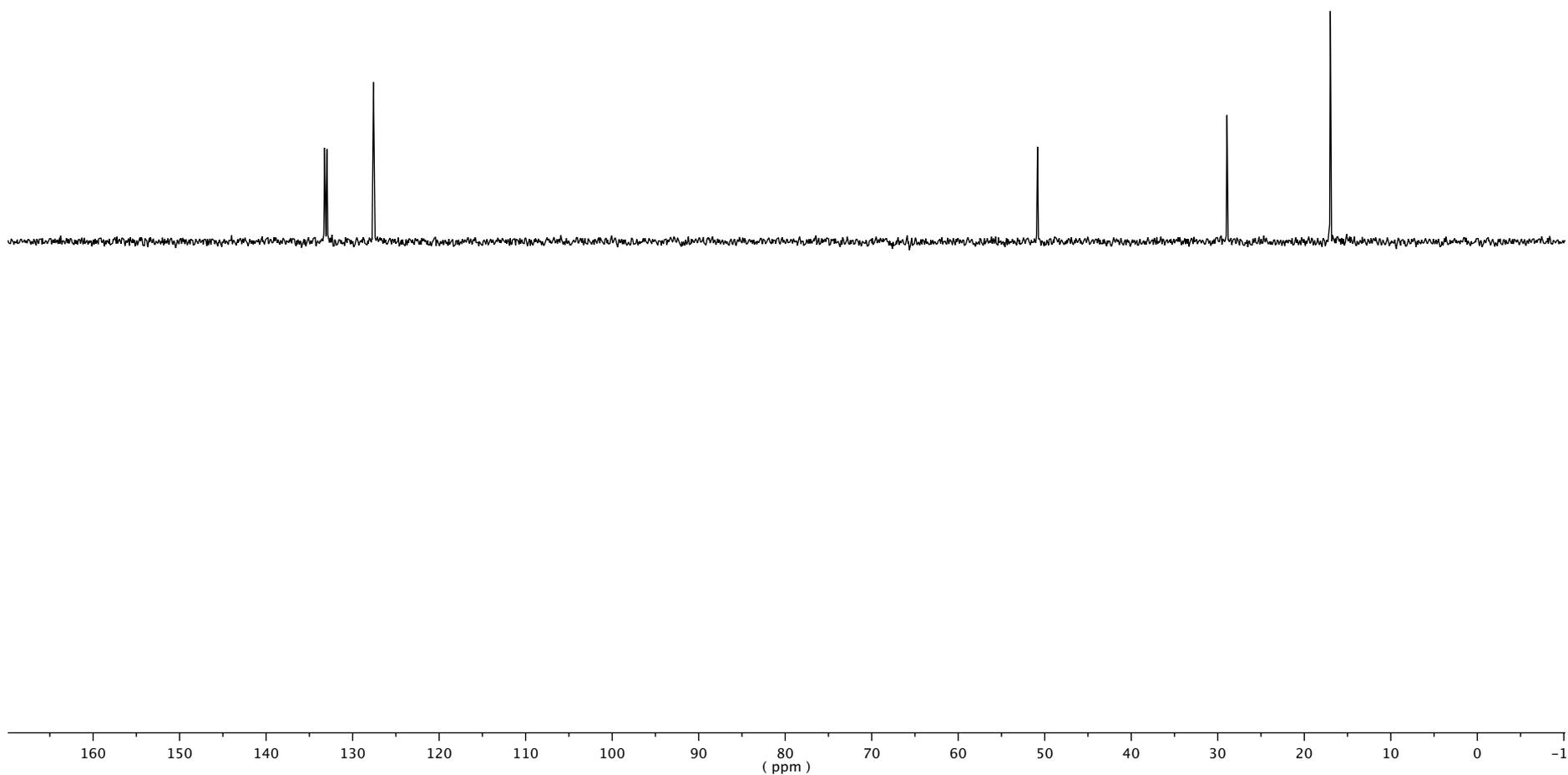


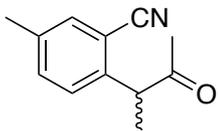
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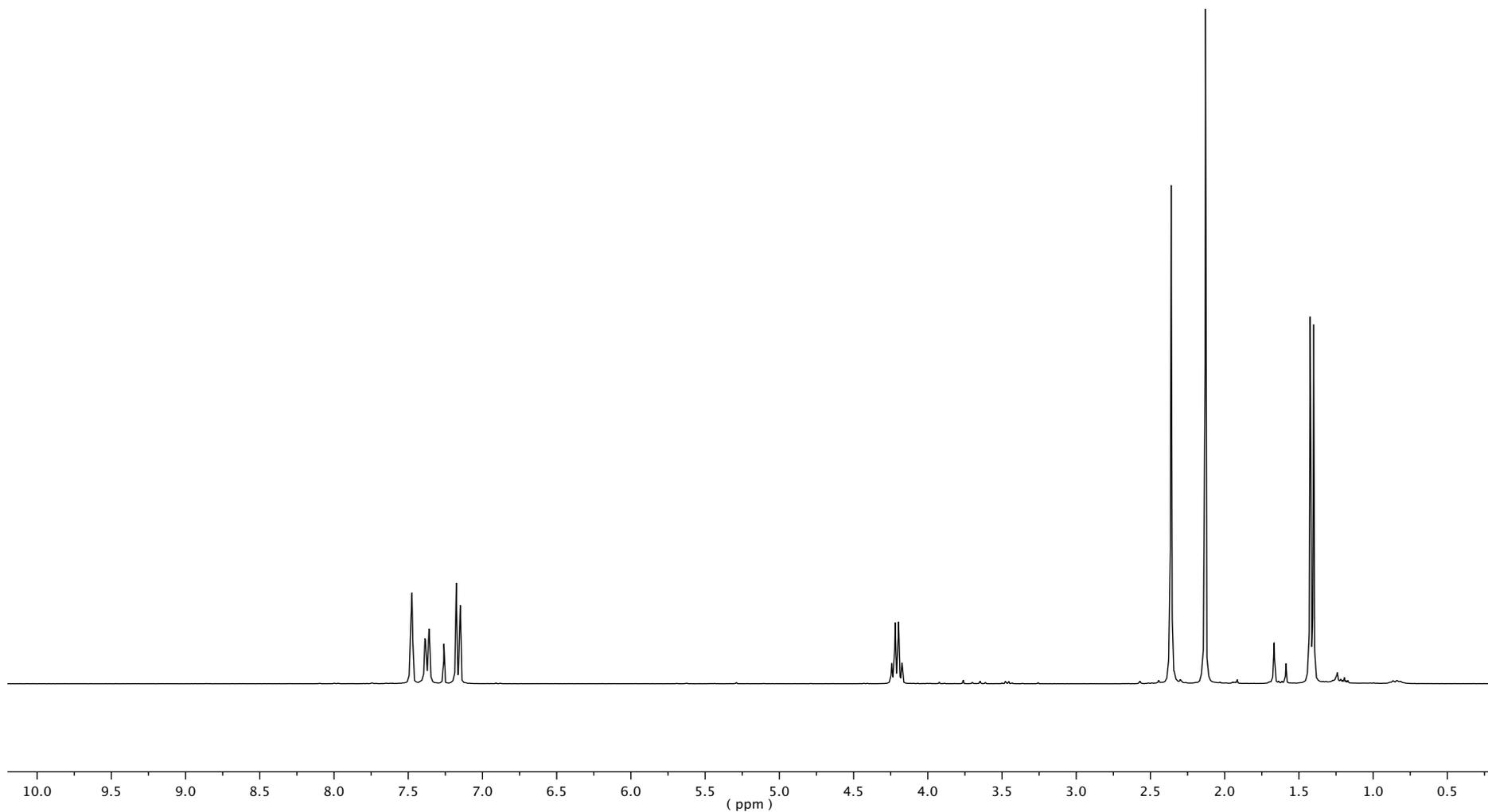


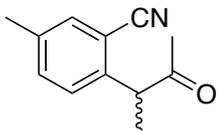
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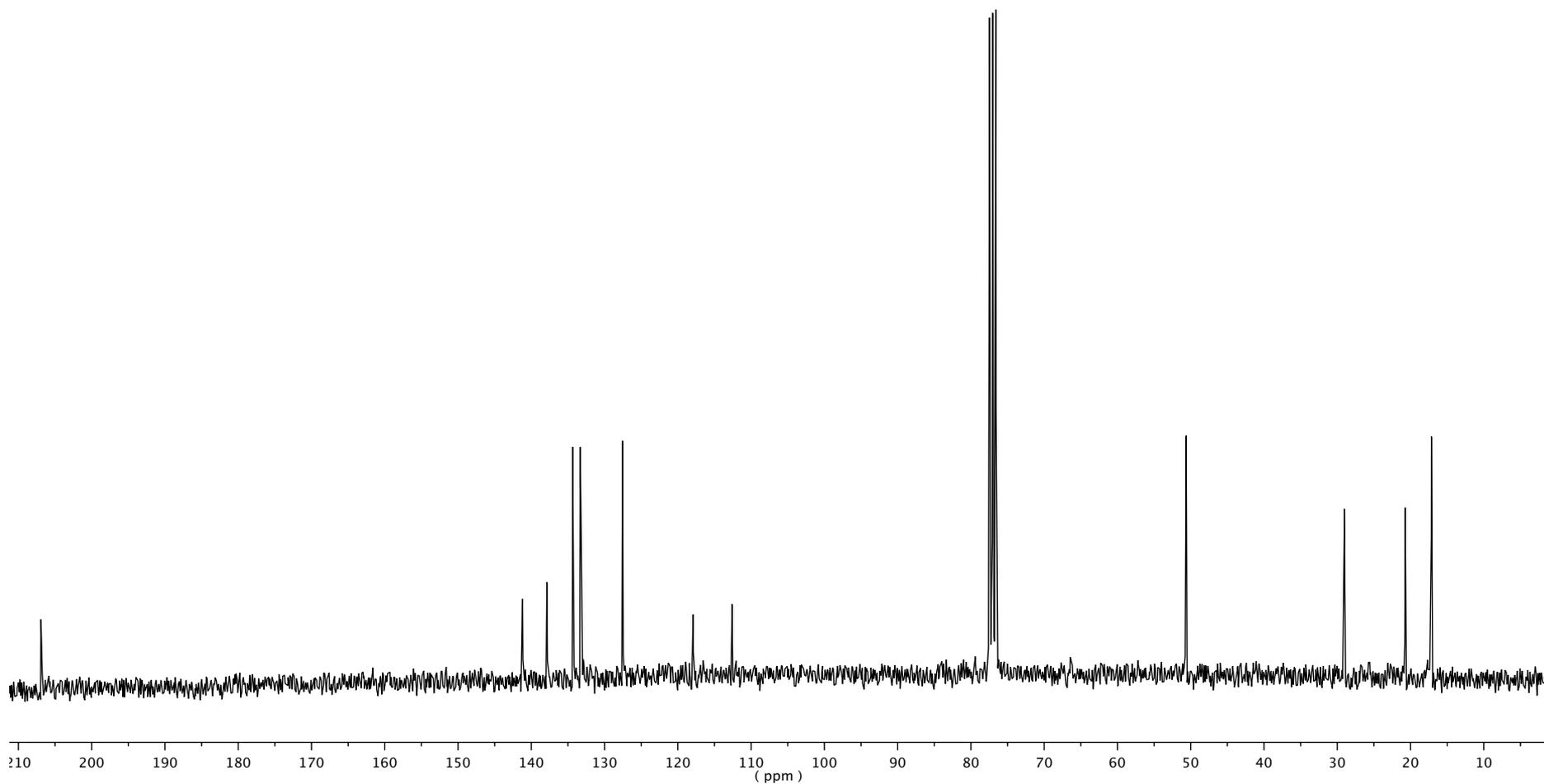


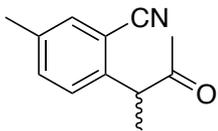
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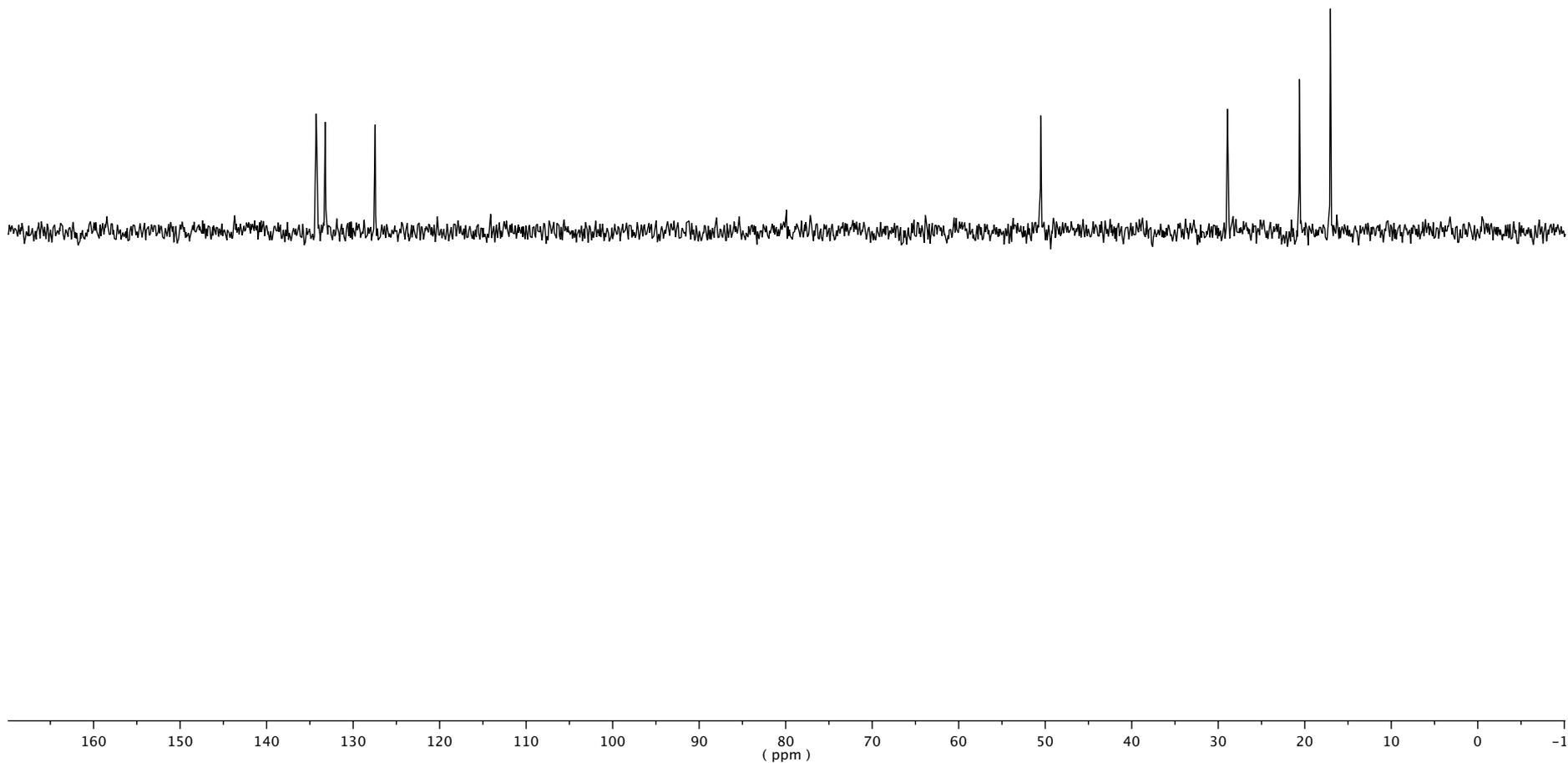


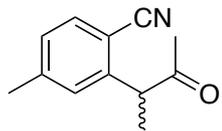
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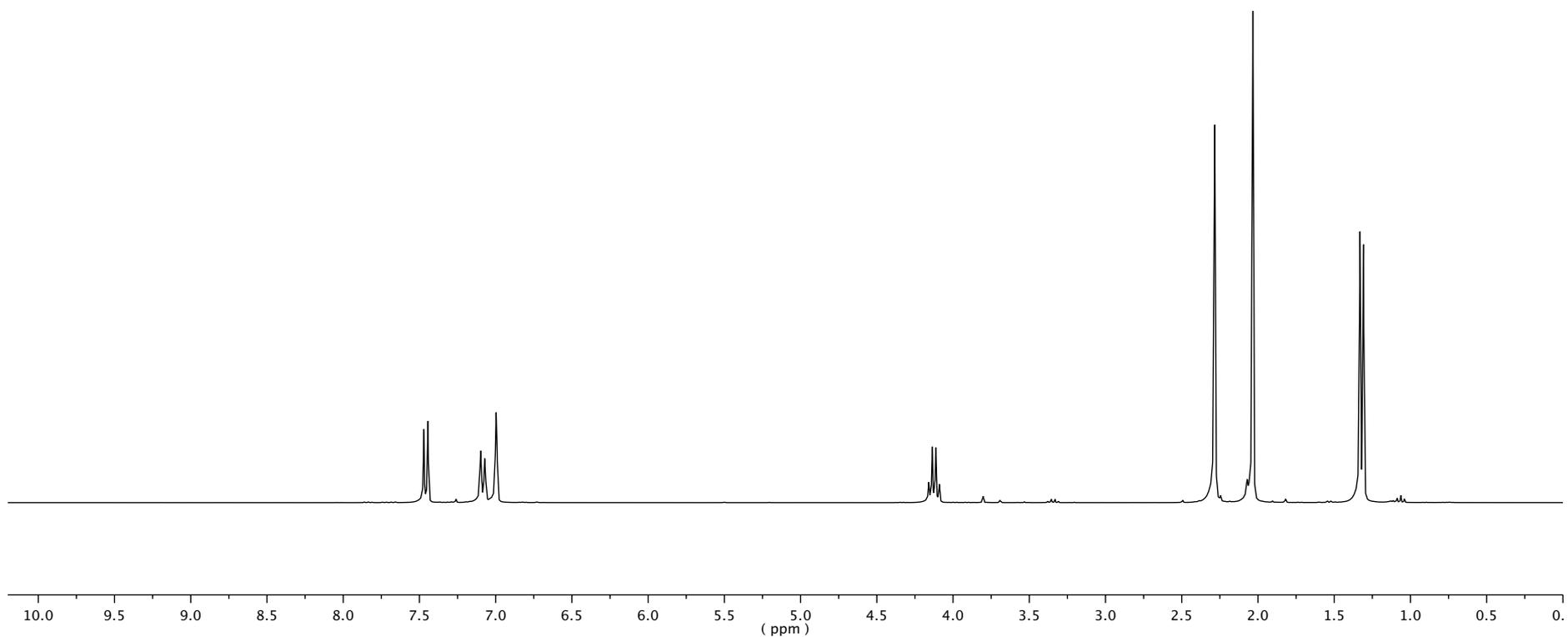


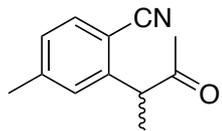
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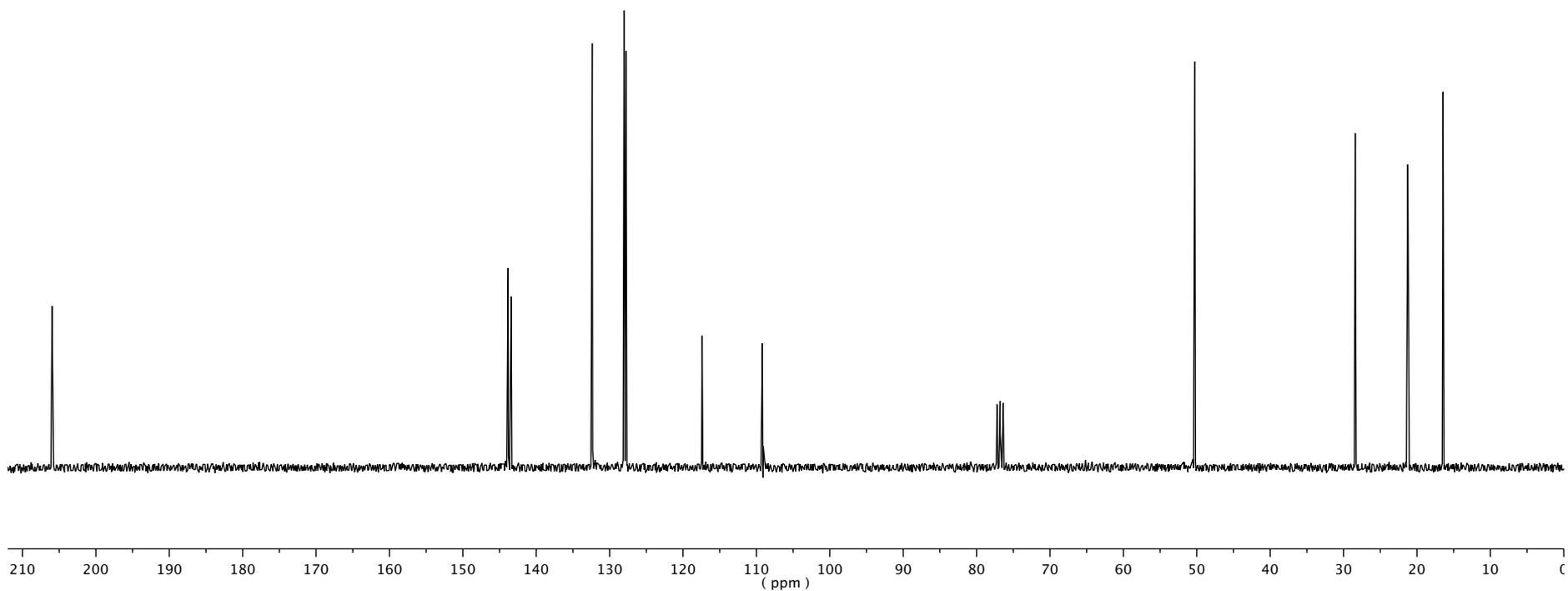


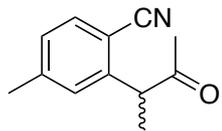
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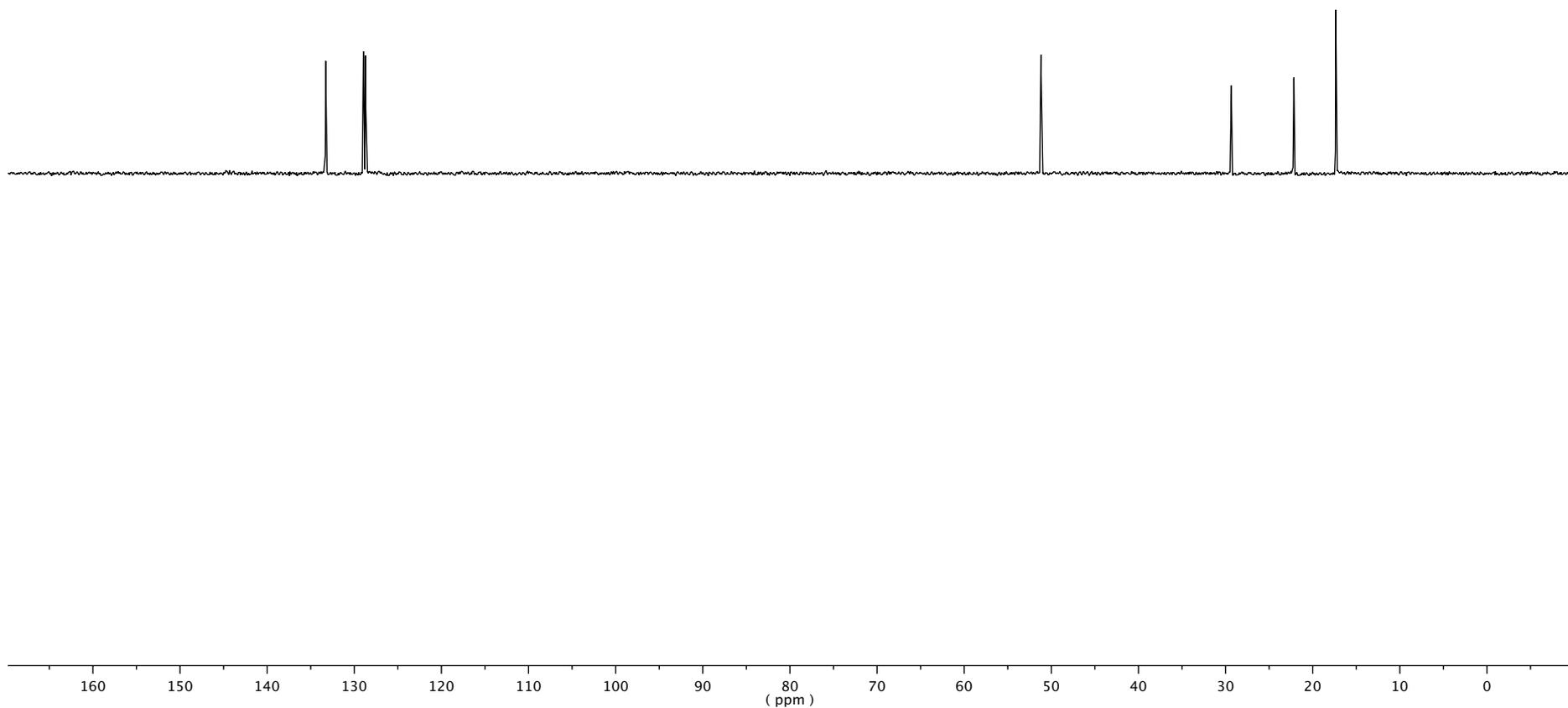


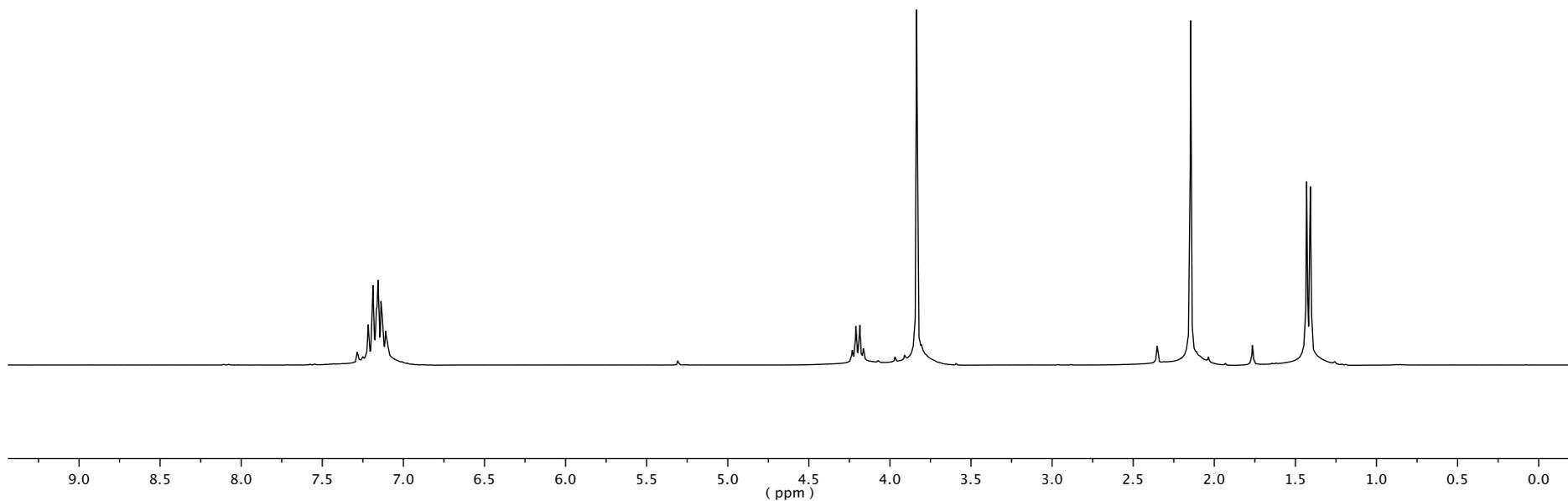
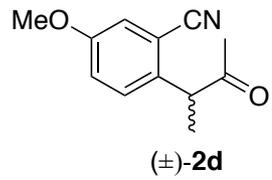
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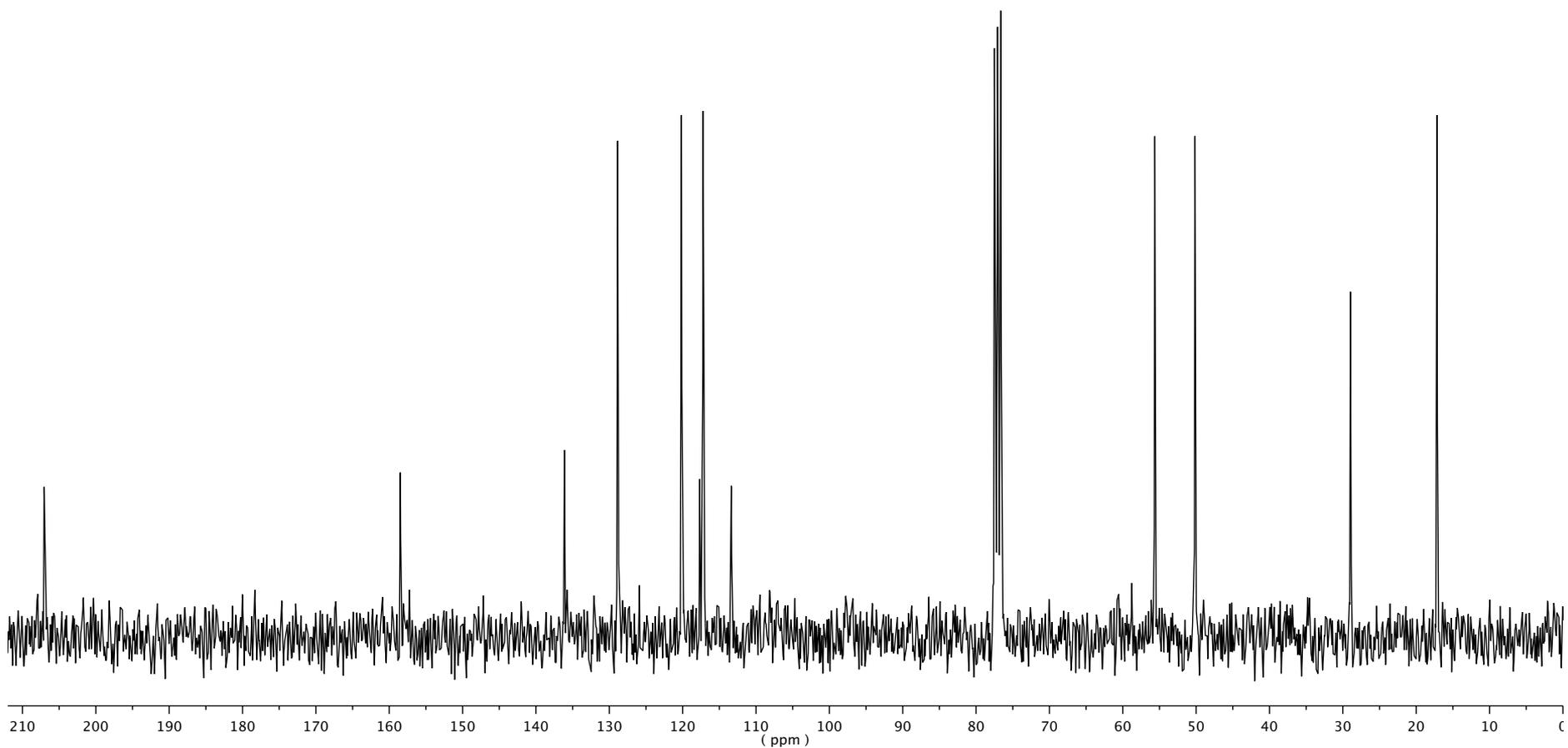
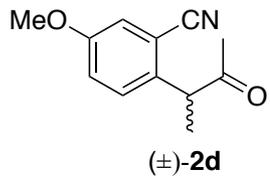


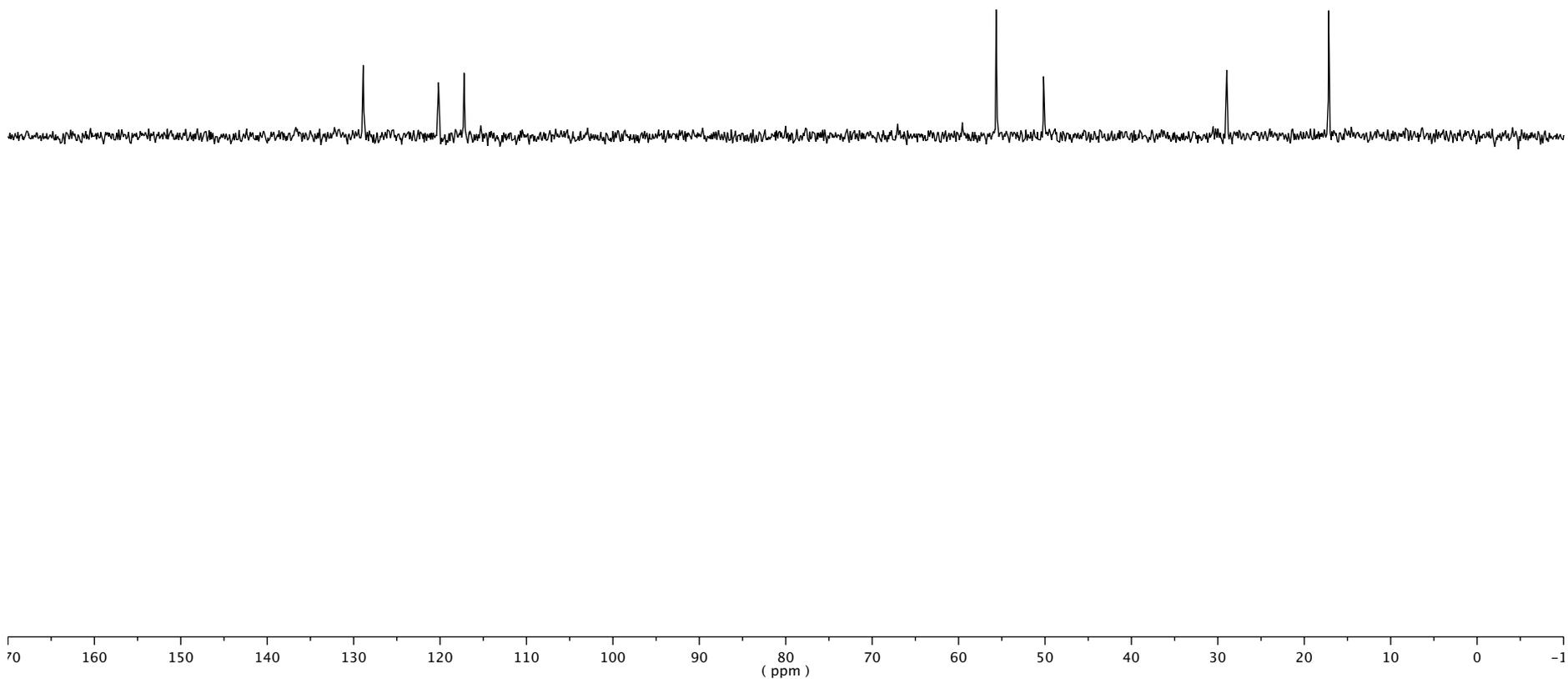
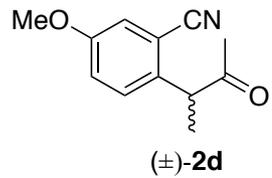


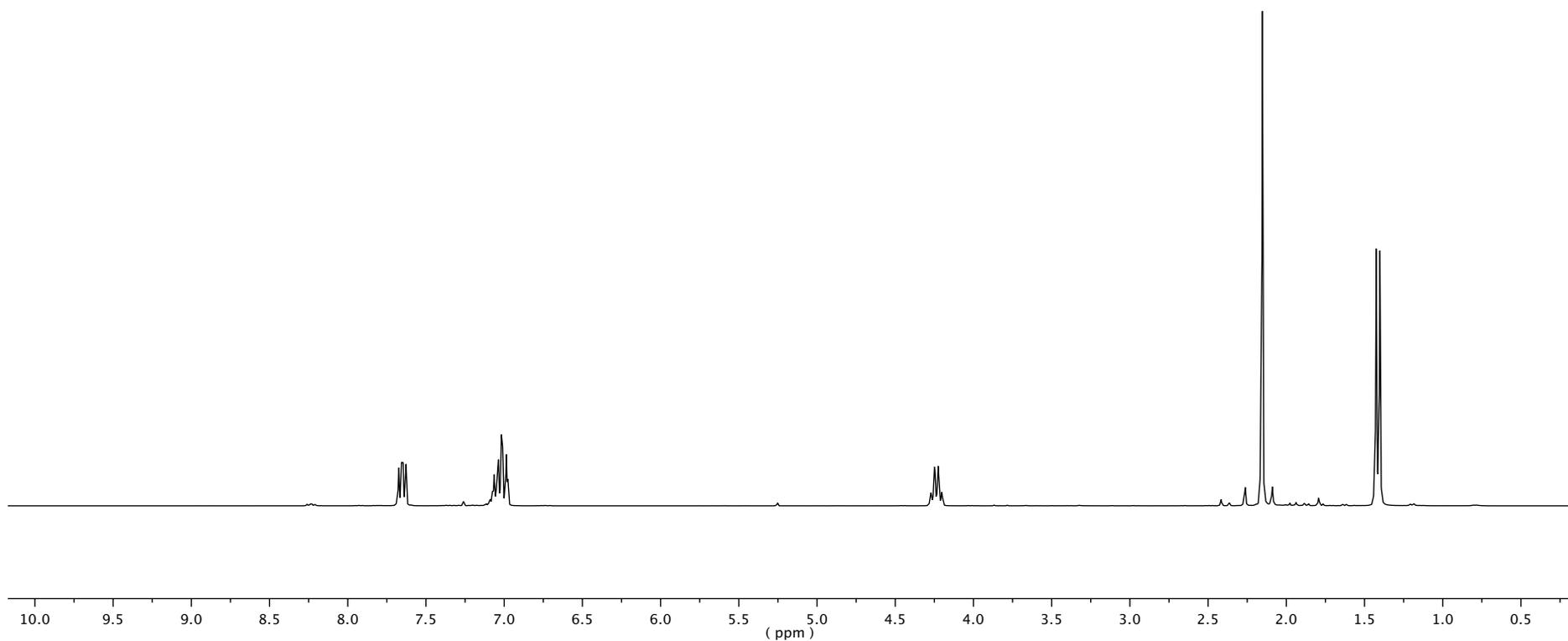
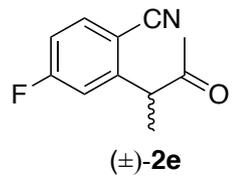
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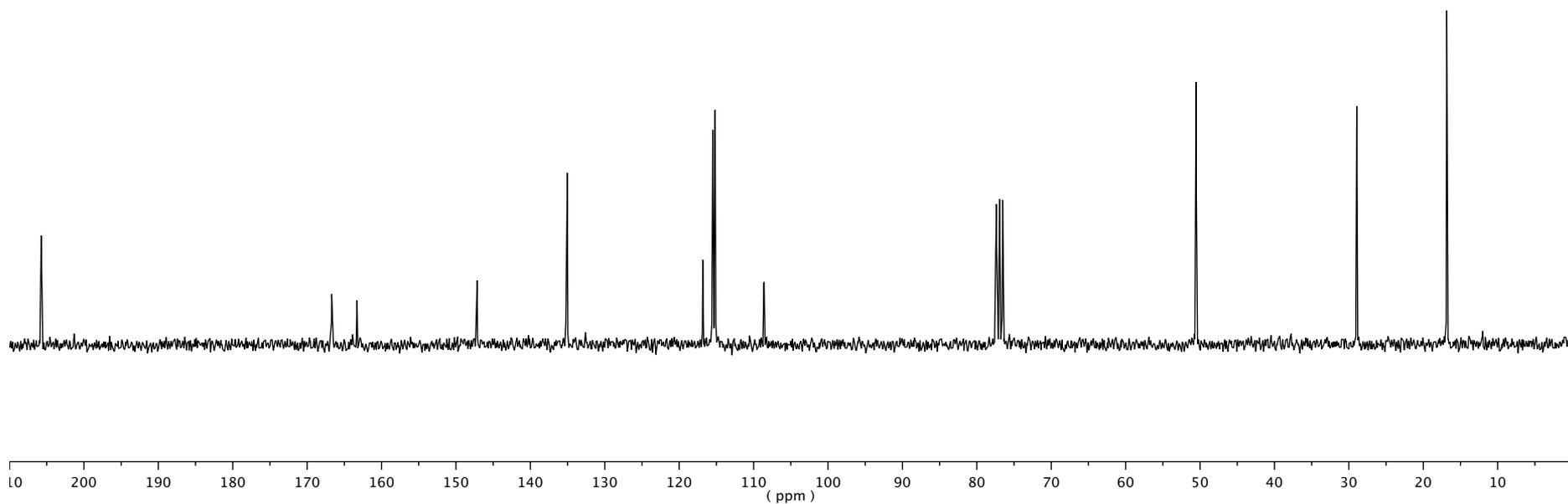
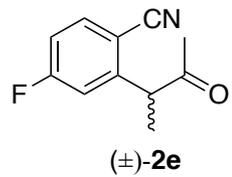


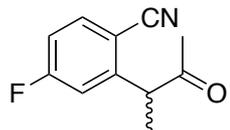




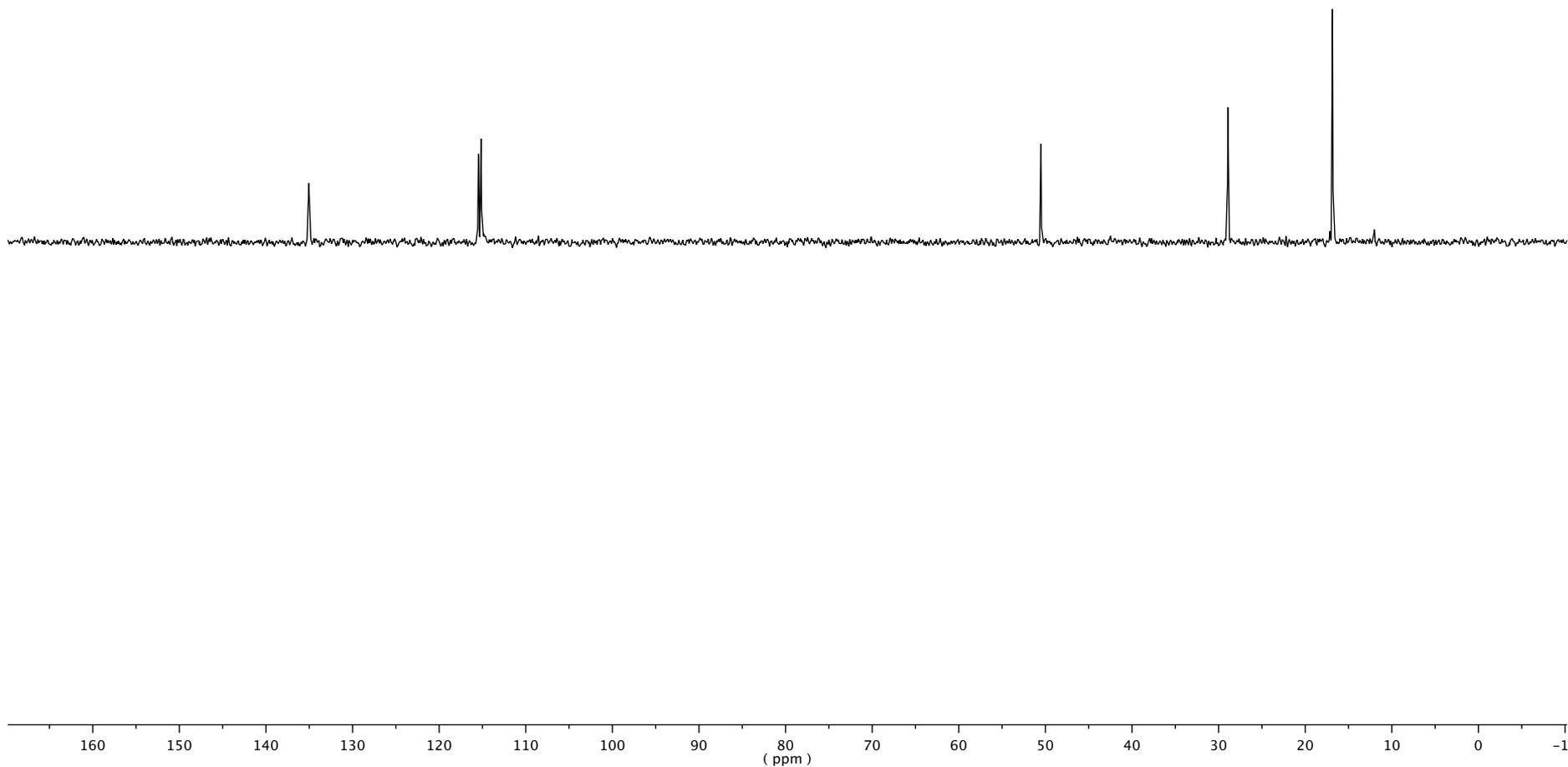


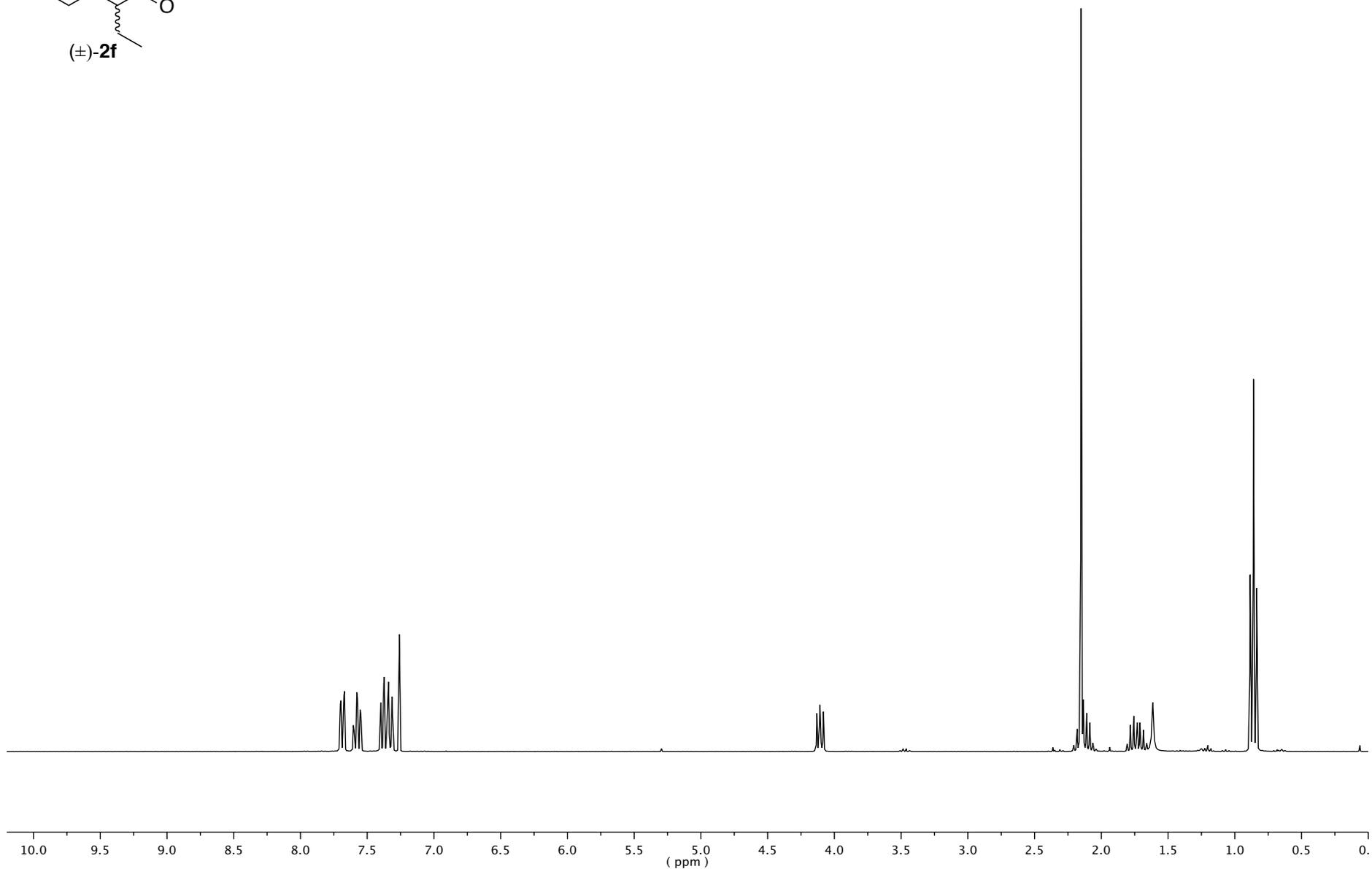
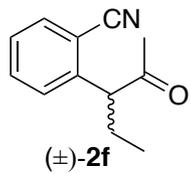


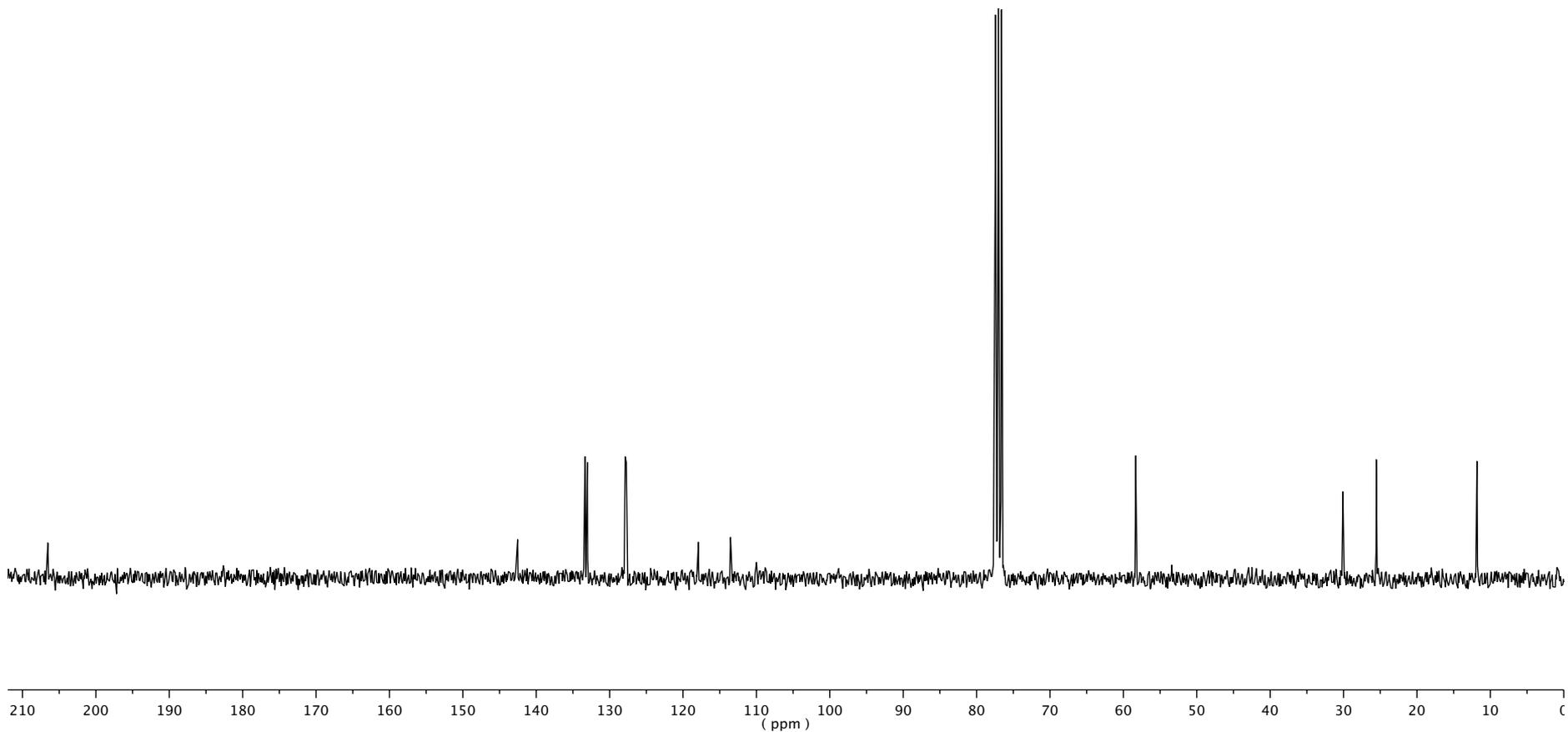
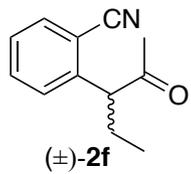


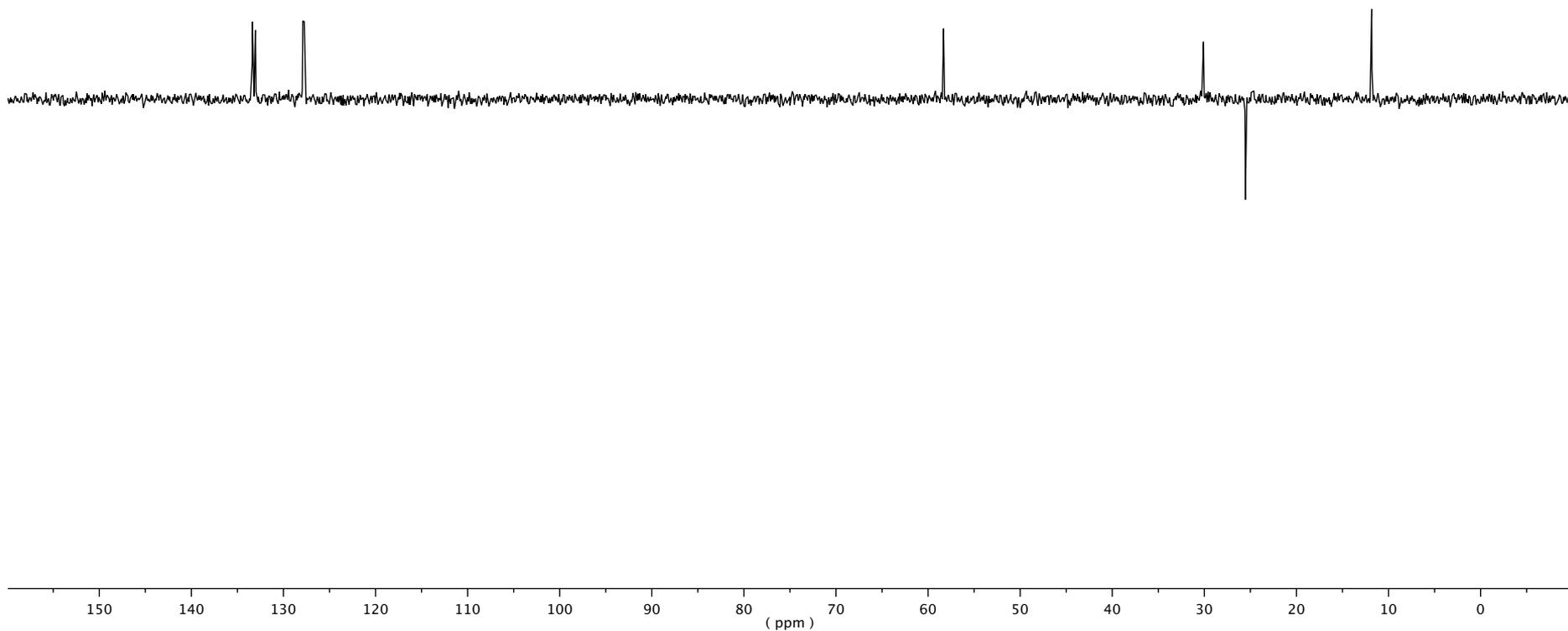
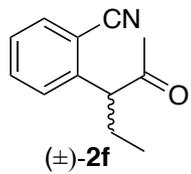


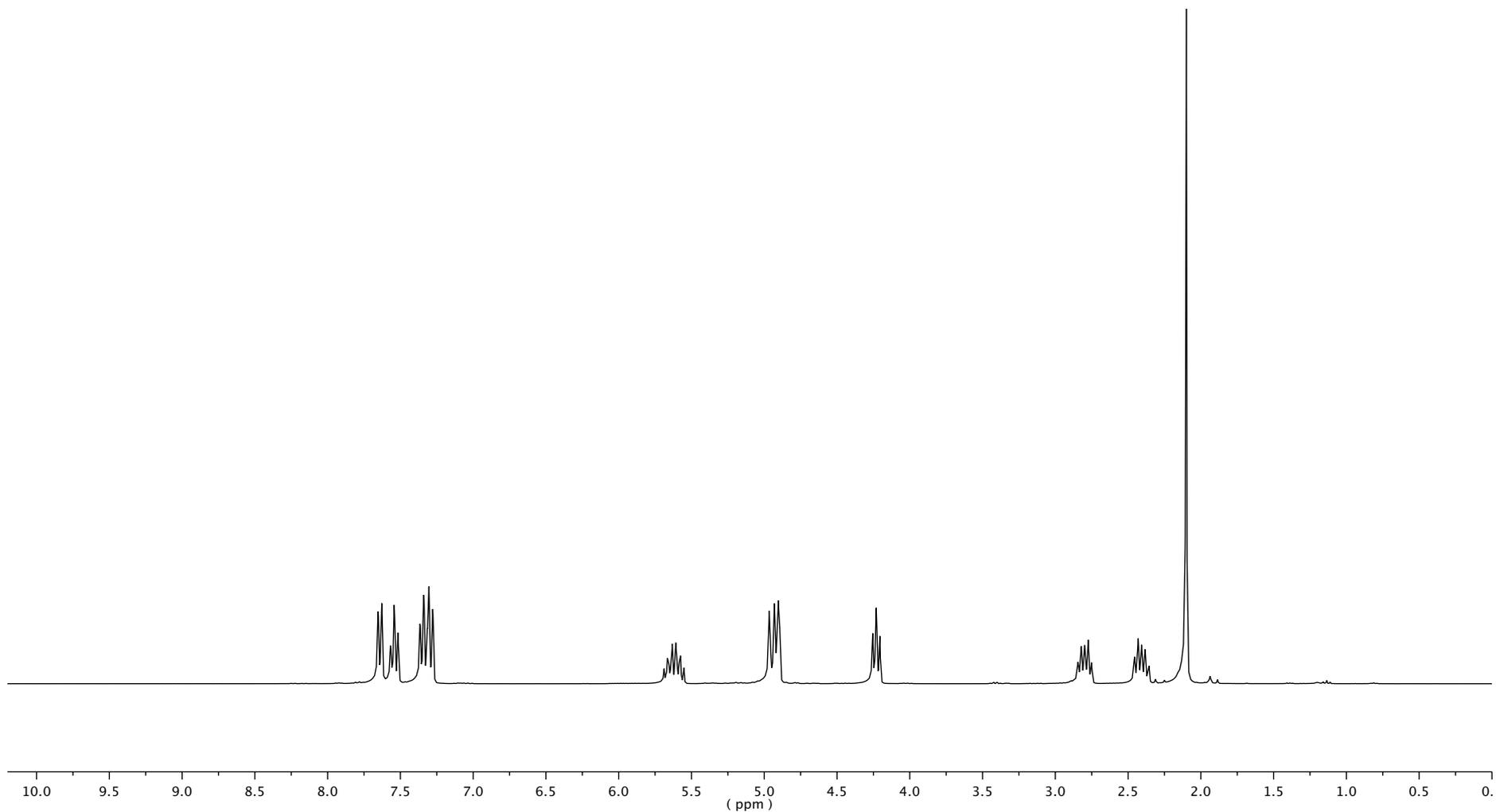
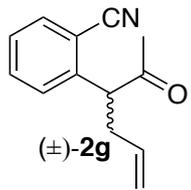
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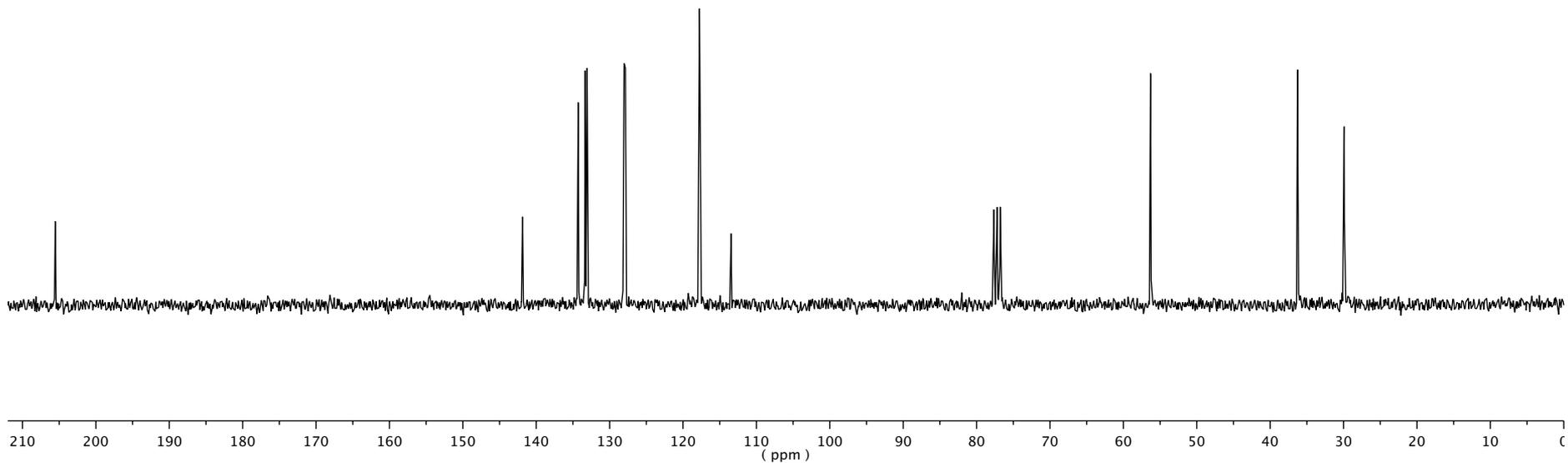
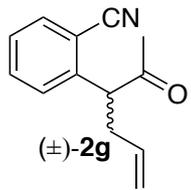


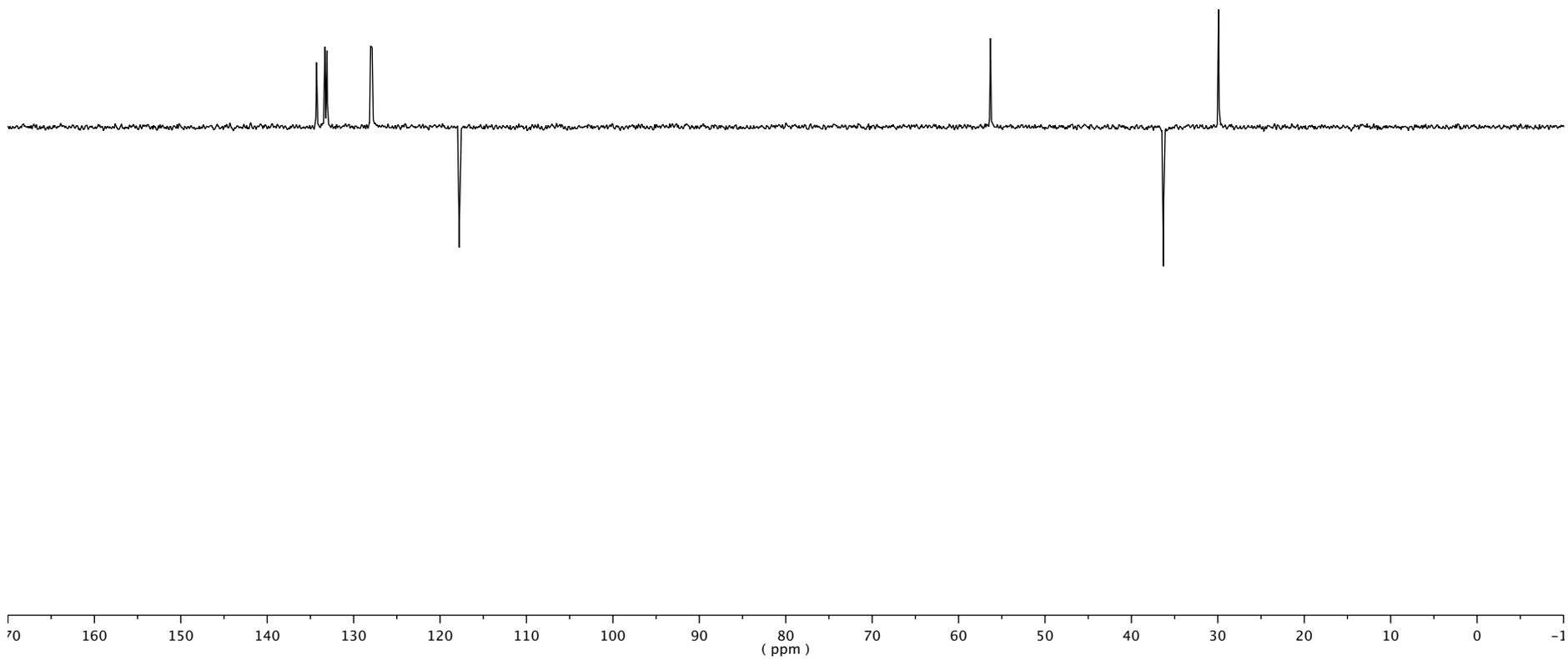
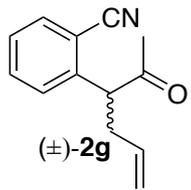


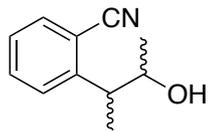




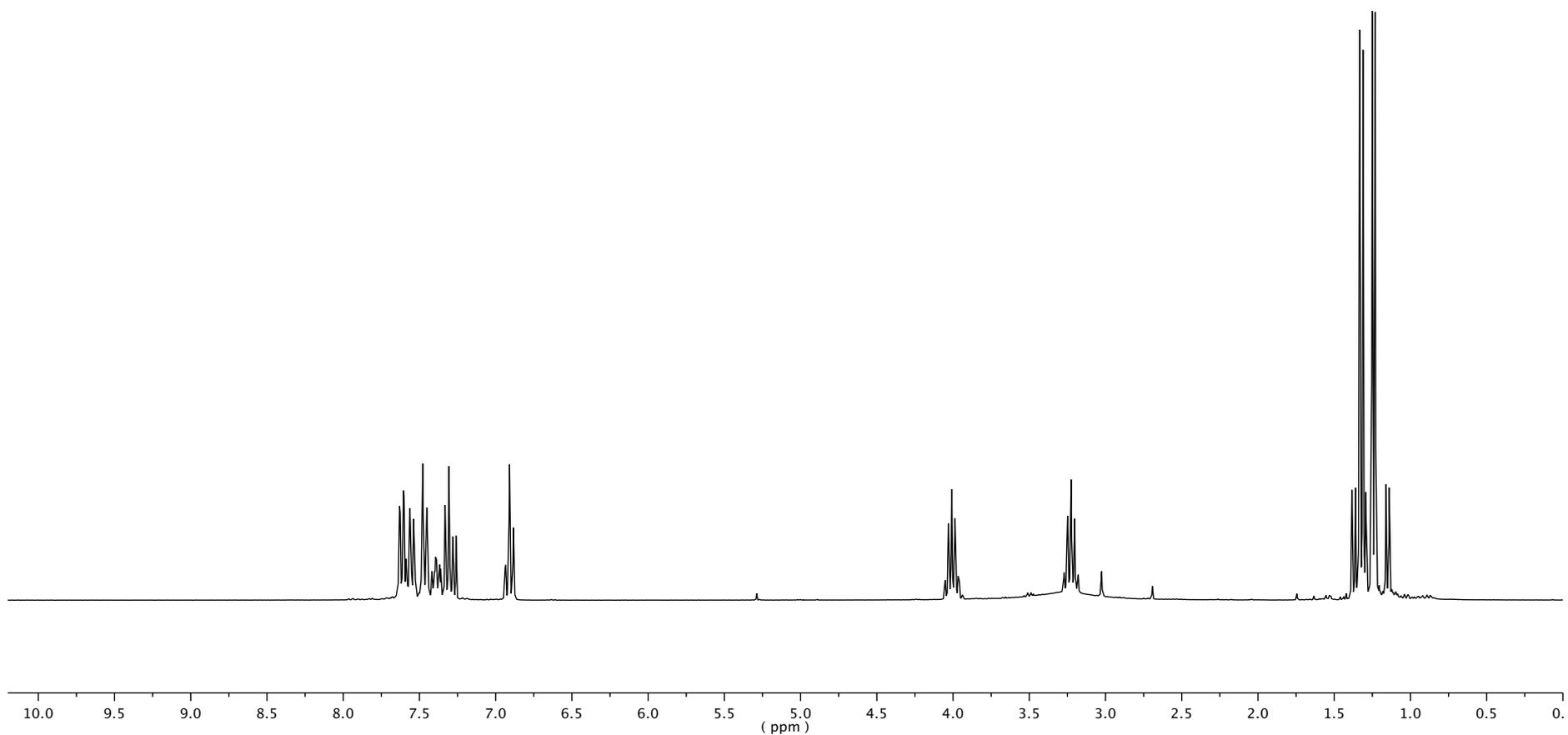


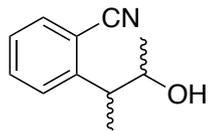




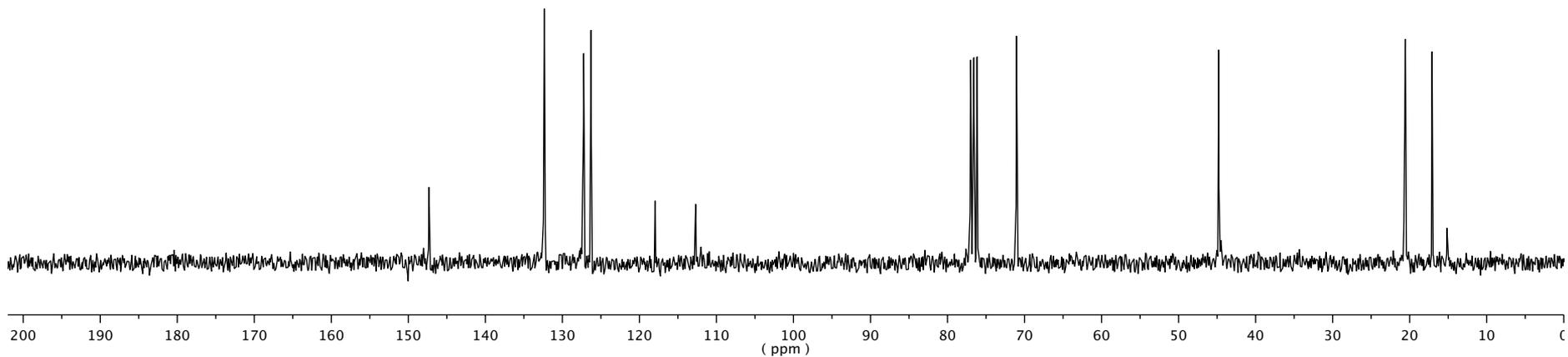


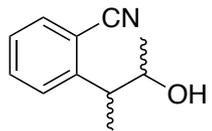
(±)-3a



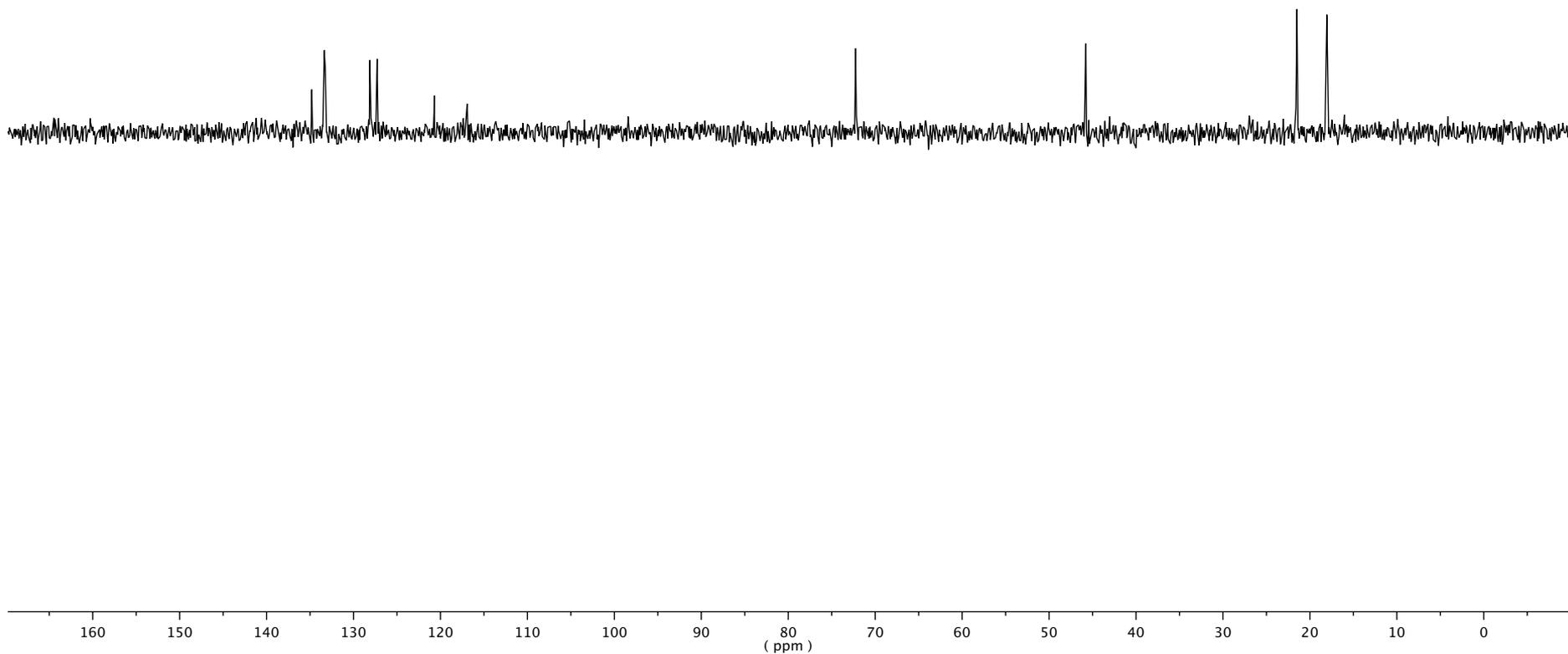


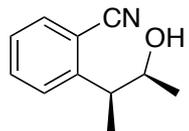
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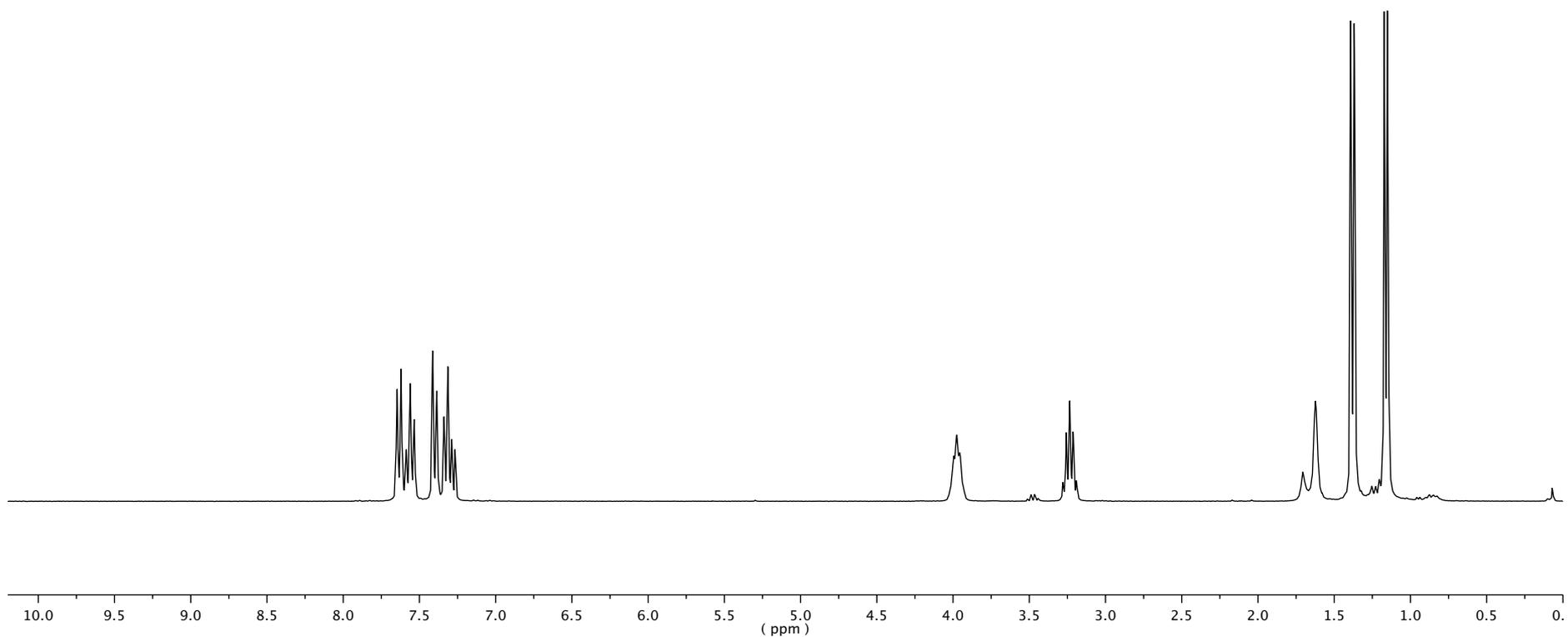


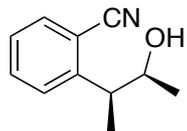
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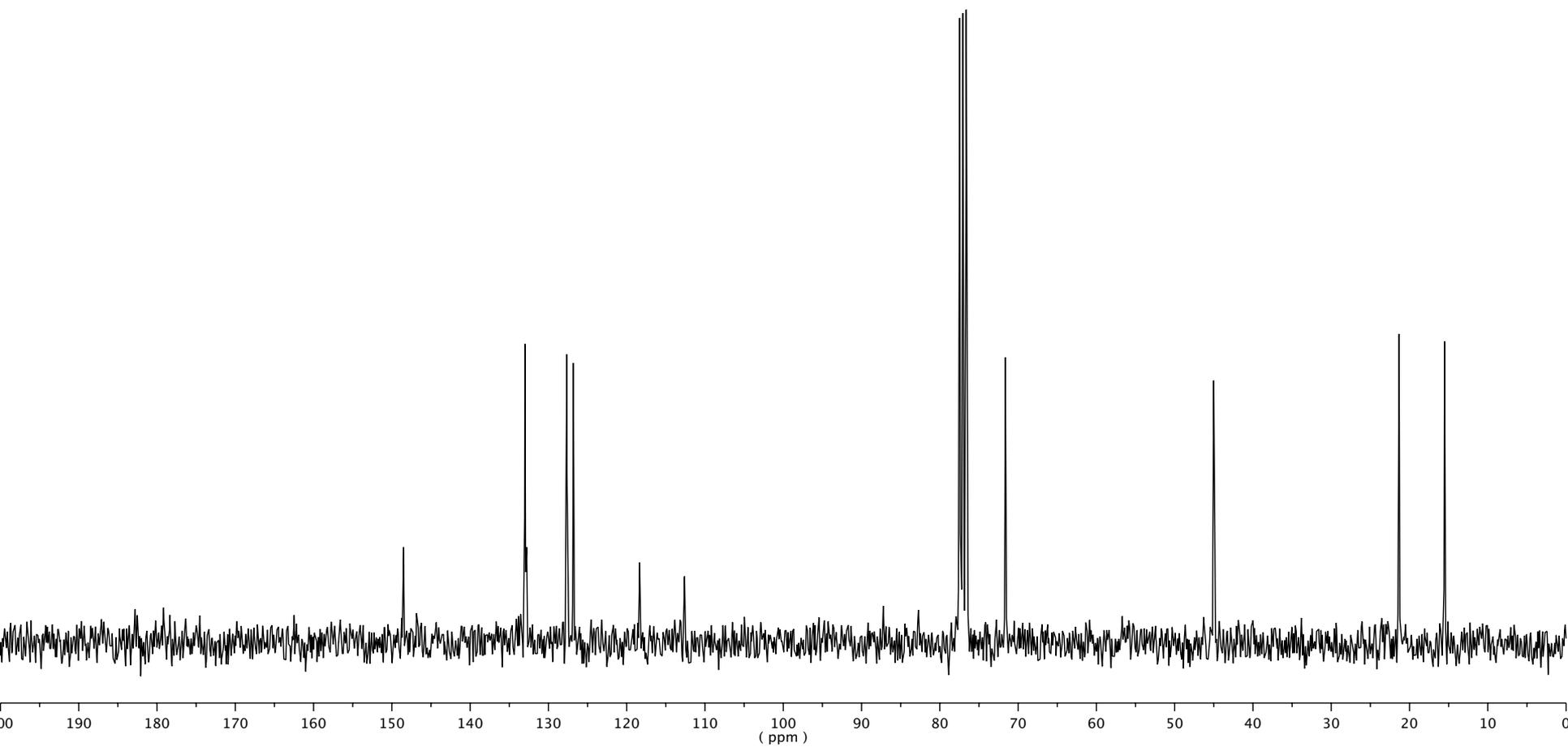


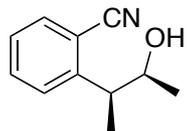
**(2S,3S)-3a**



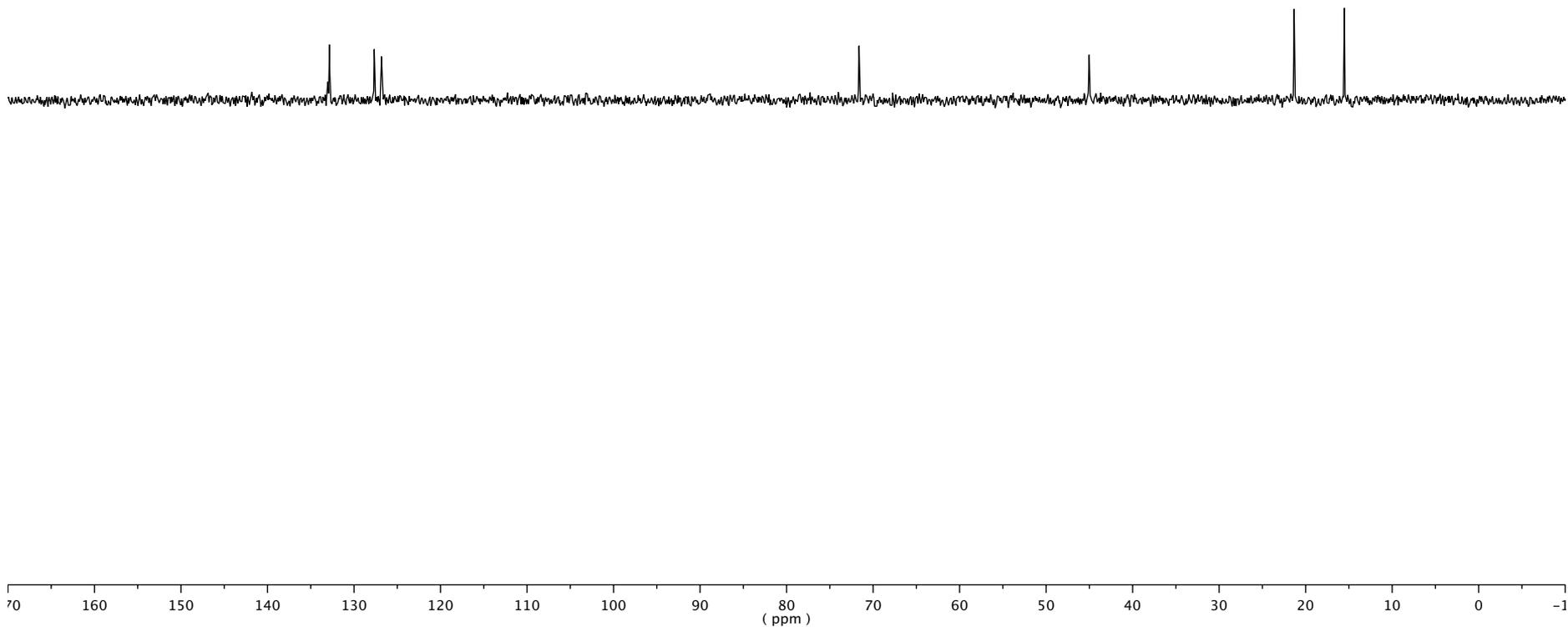


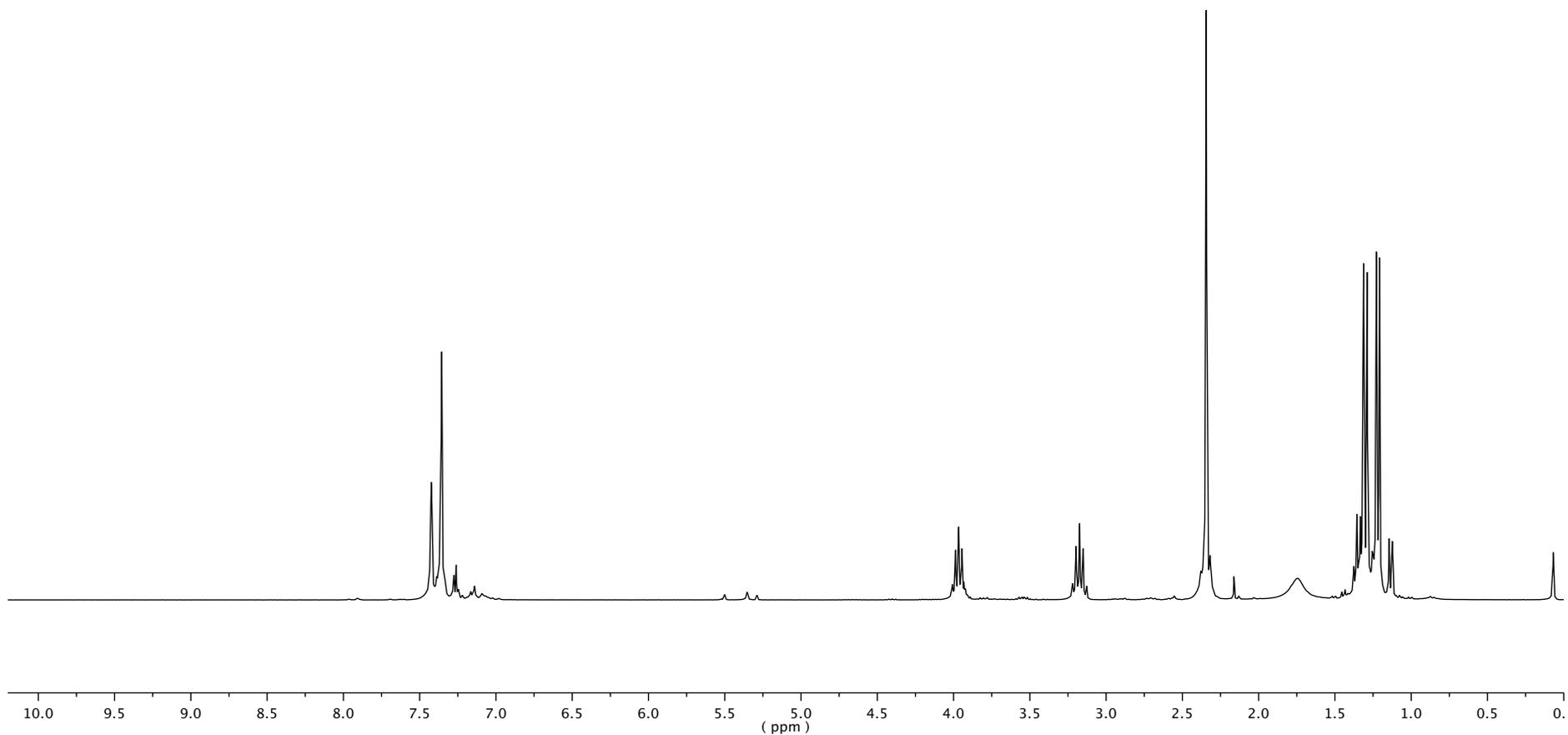
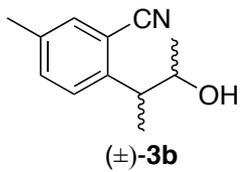
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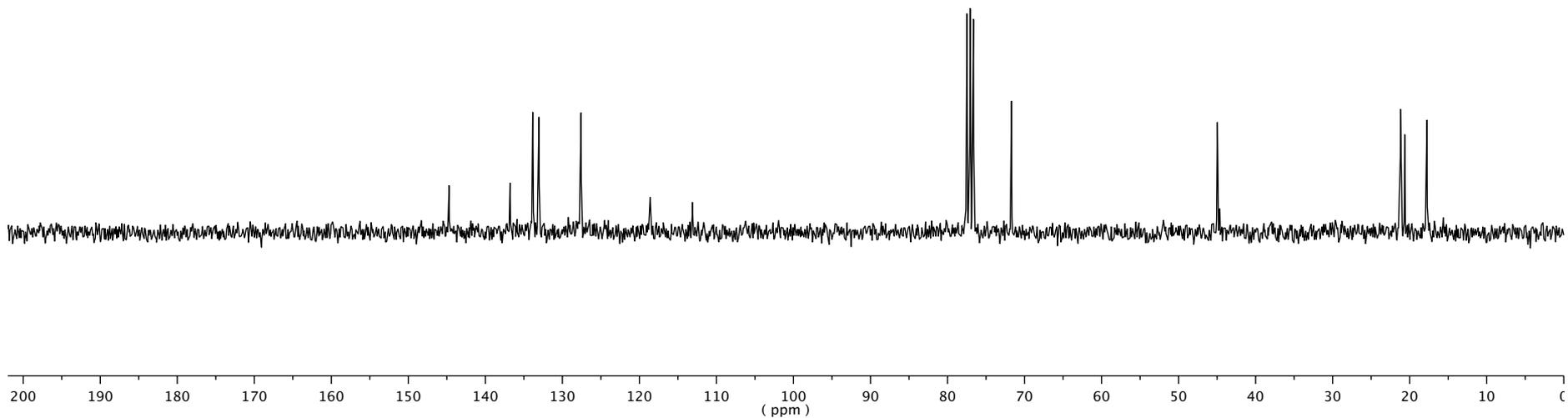
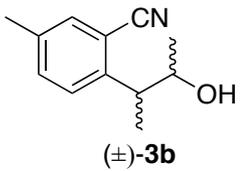


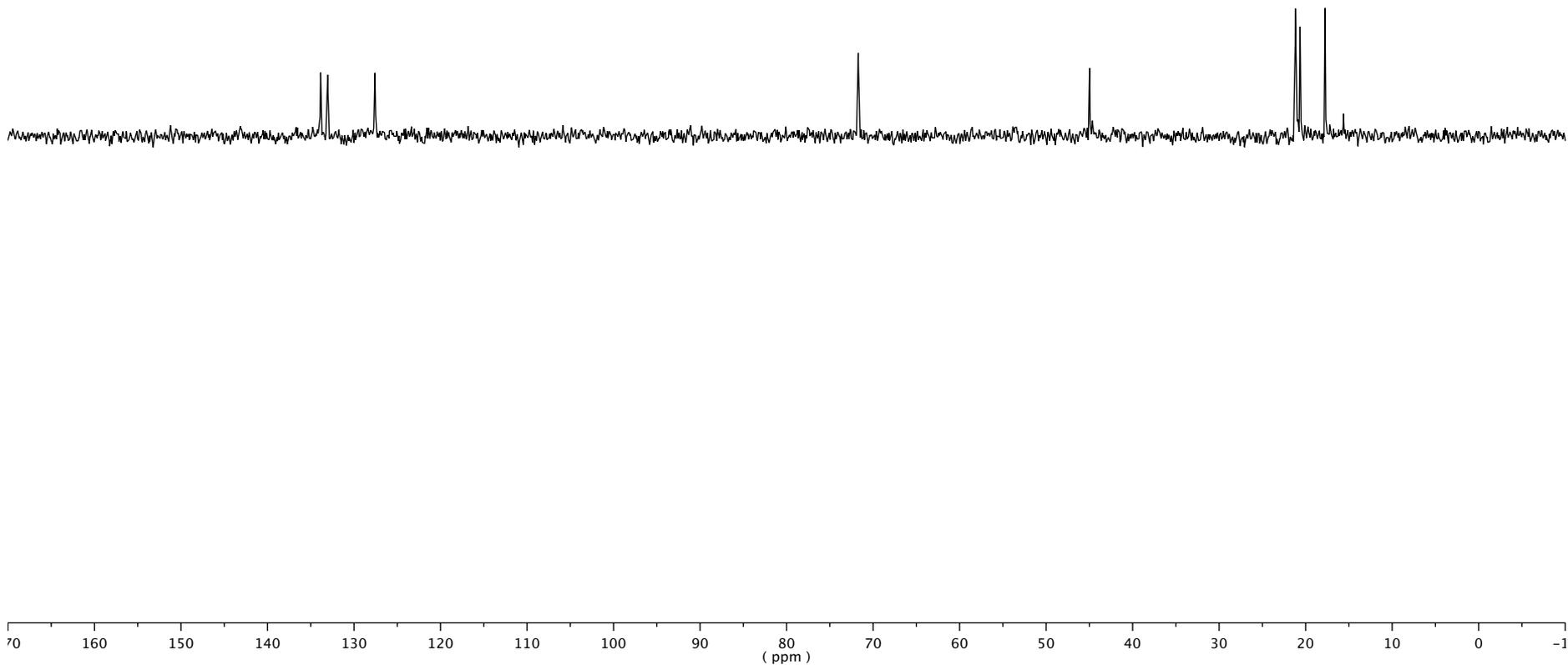
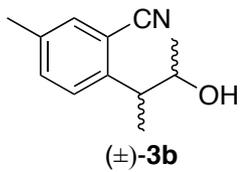


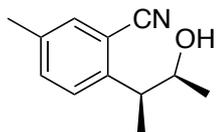
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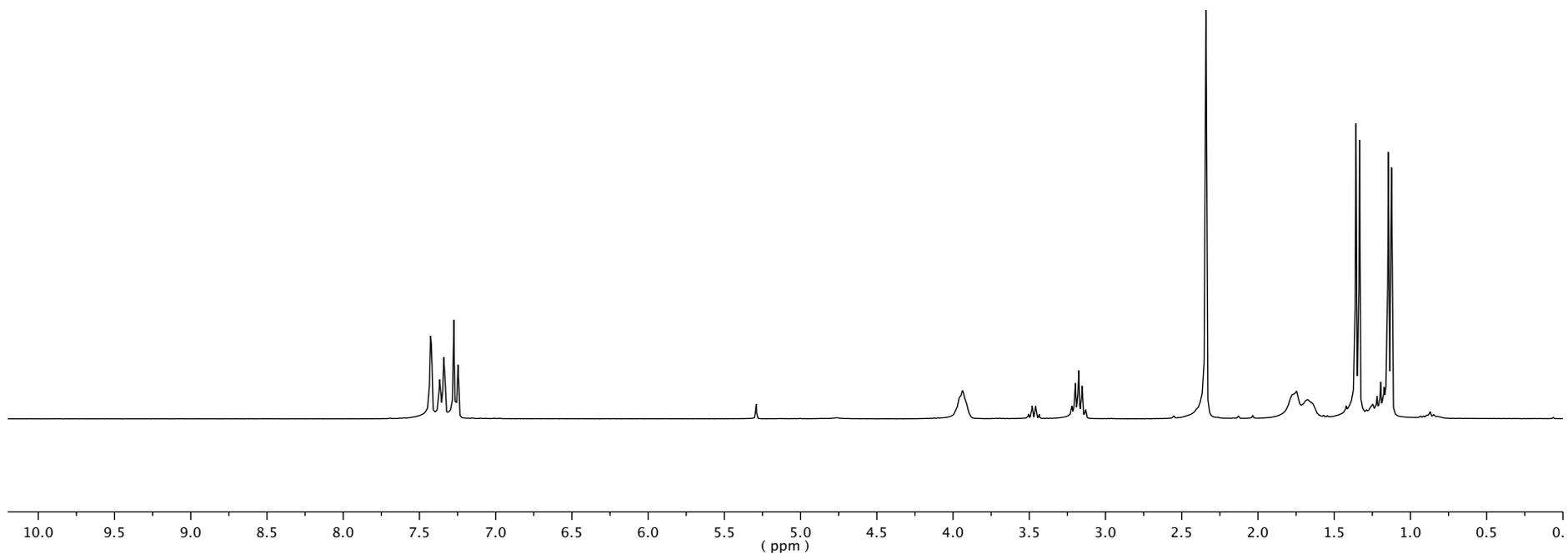


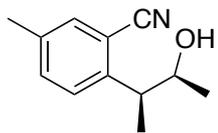




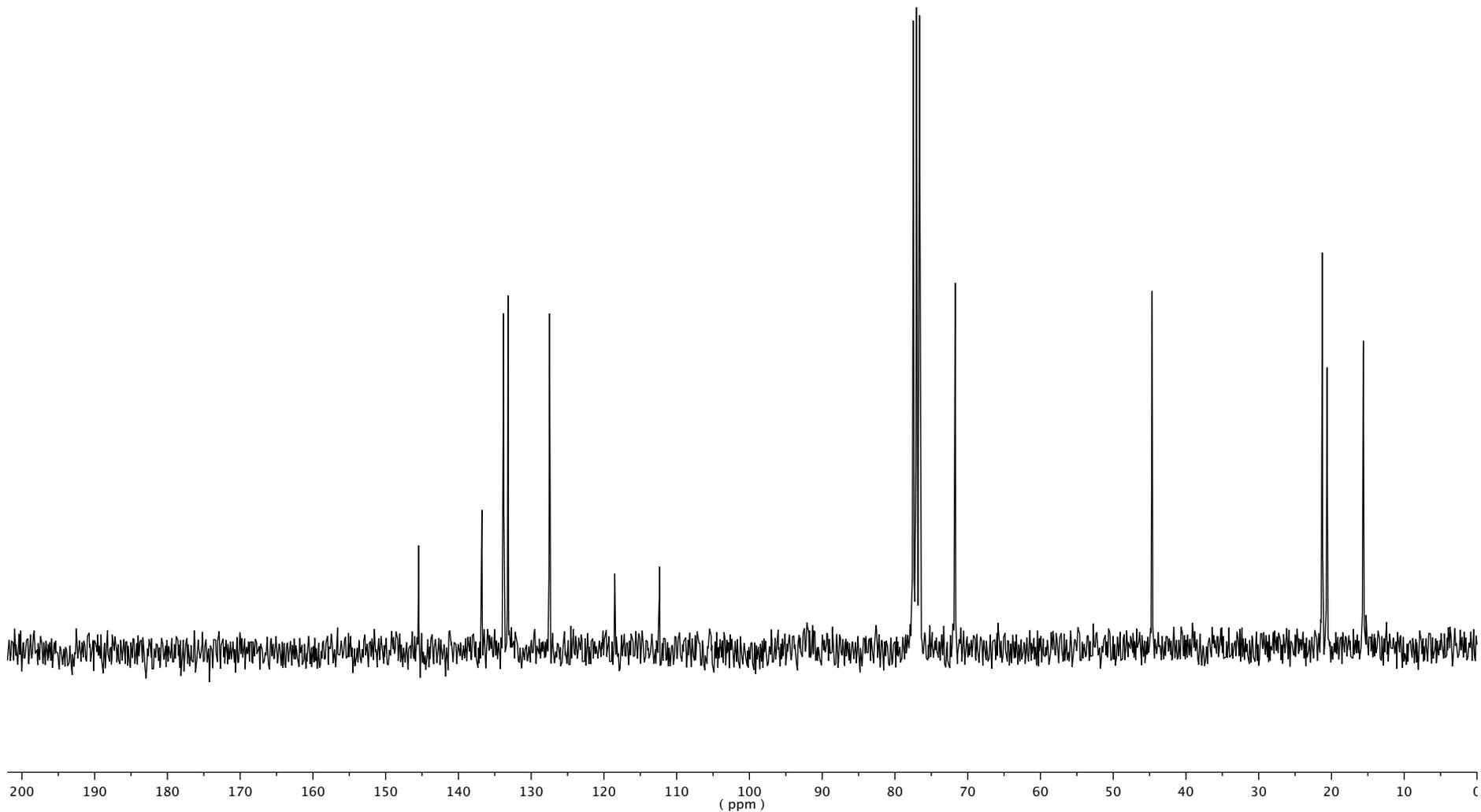


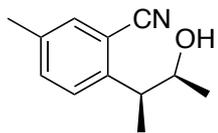
(2*S*,3*S*)-3b



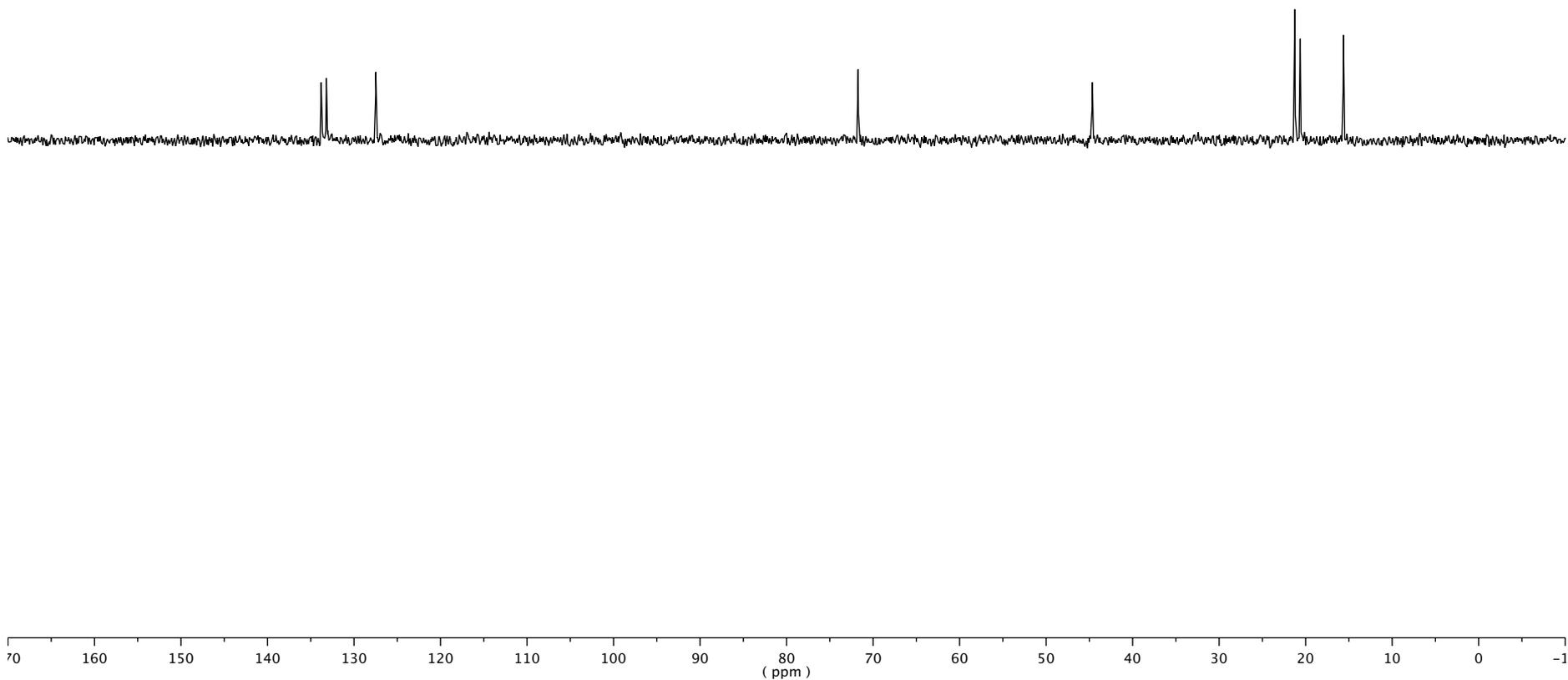


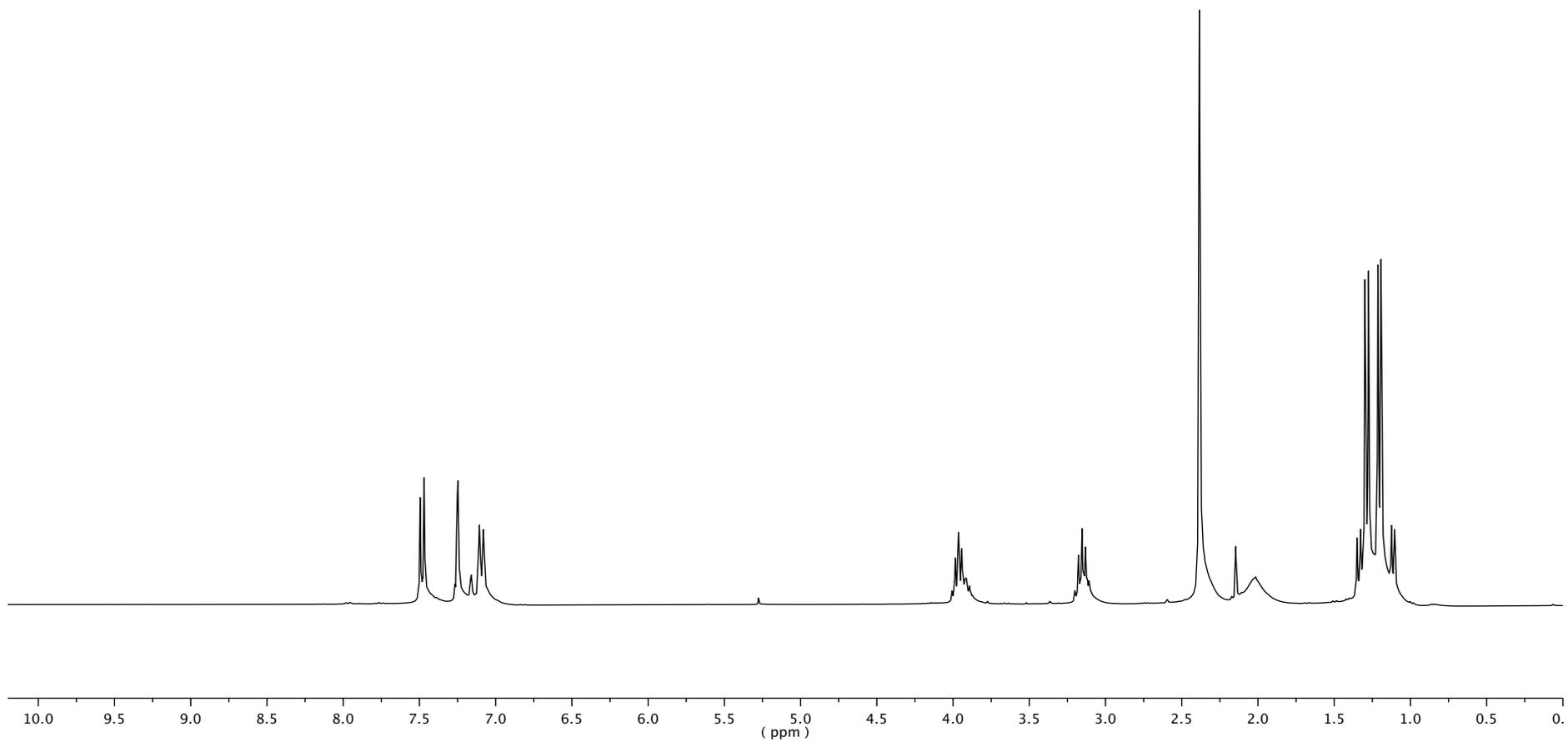
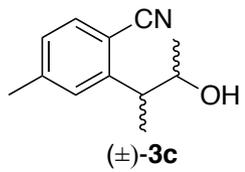
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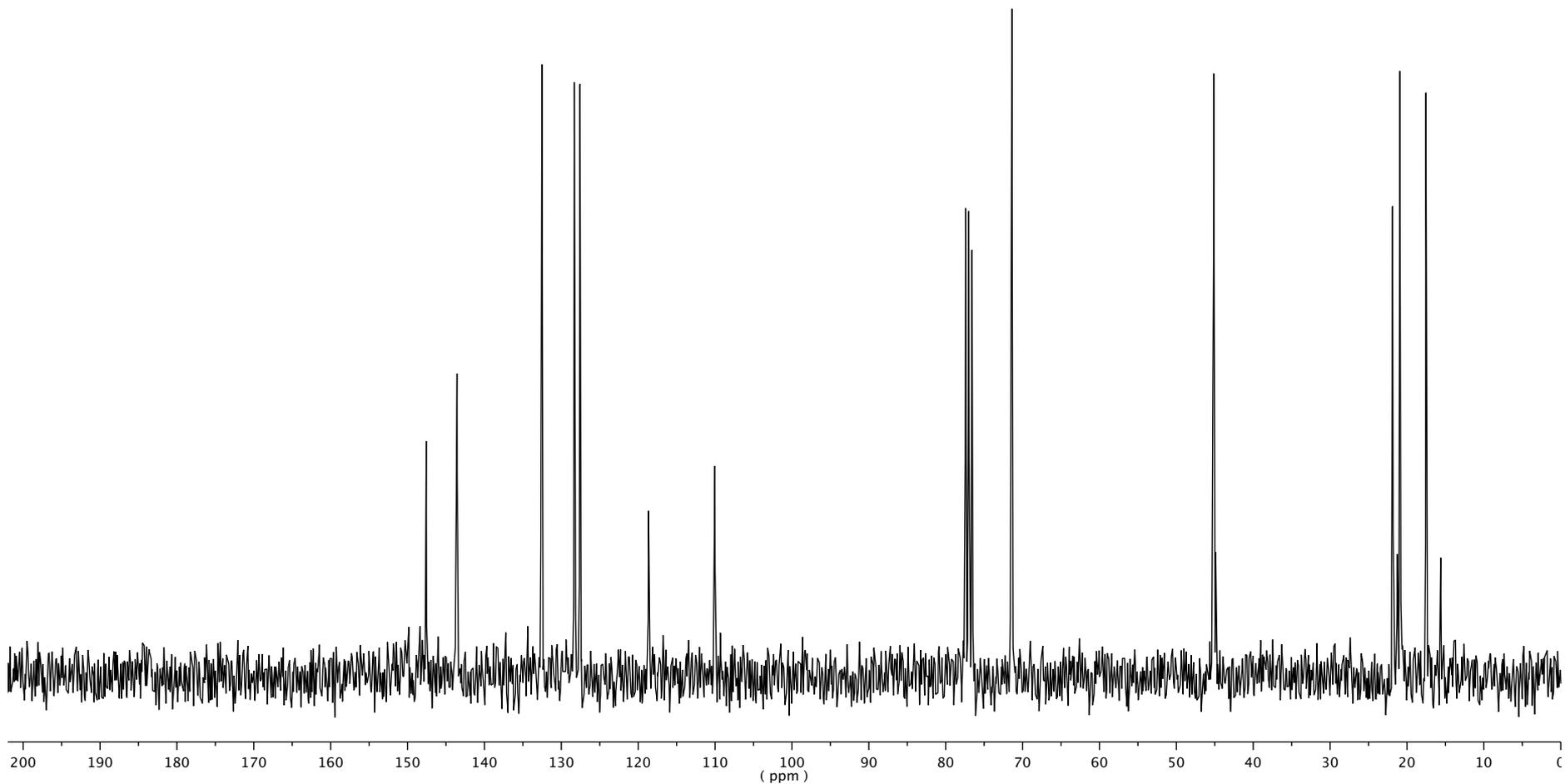
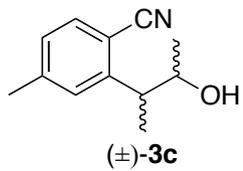


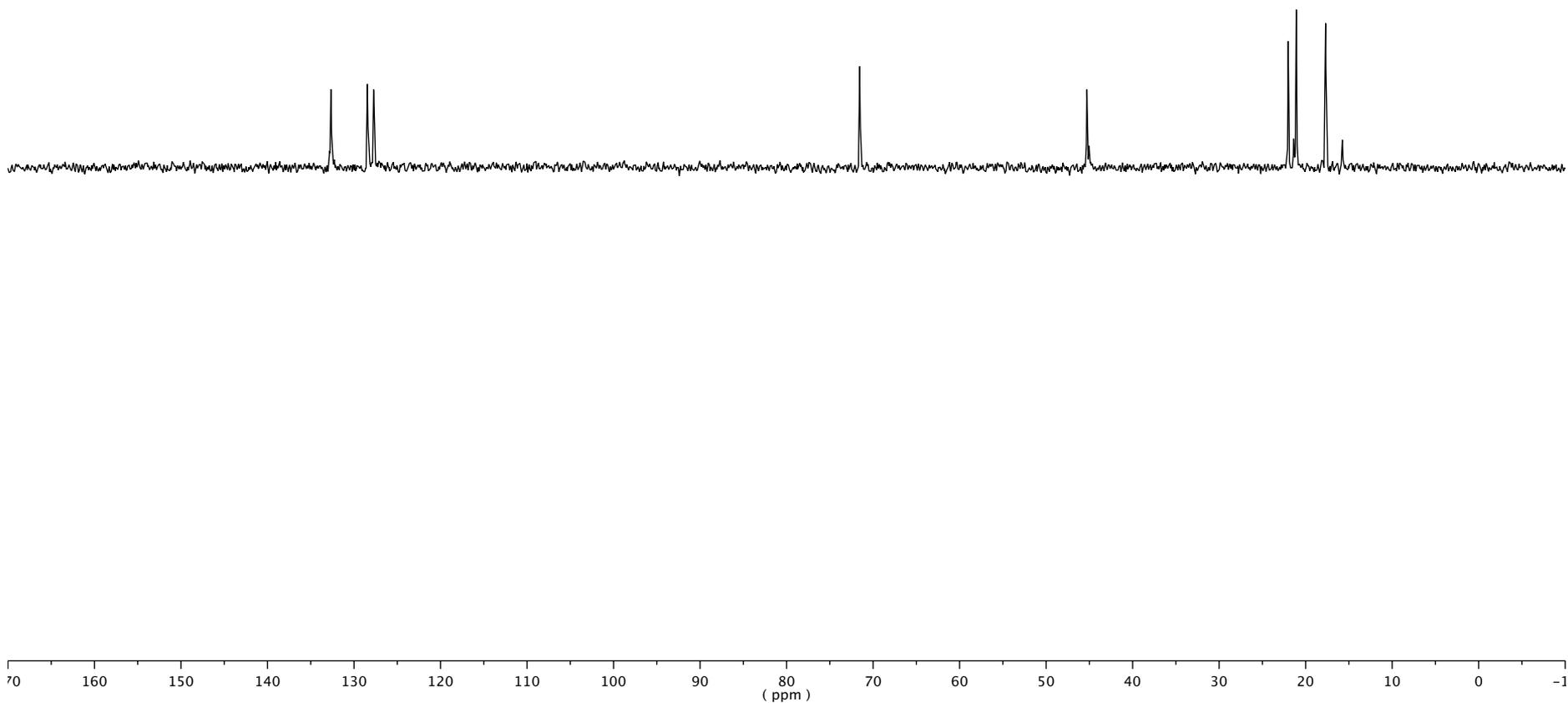
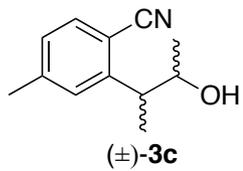


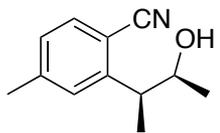
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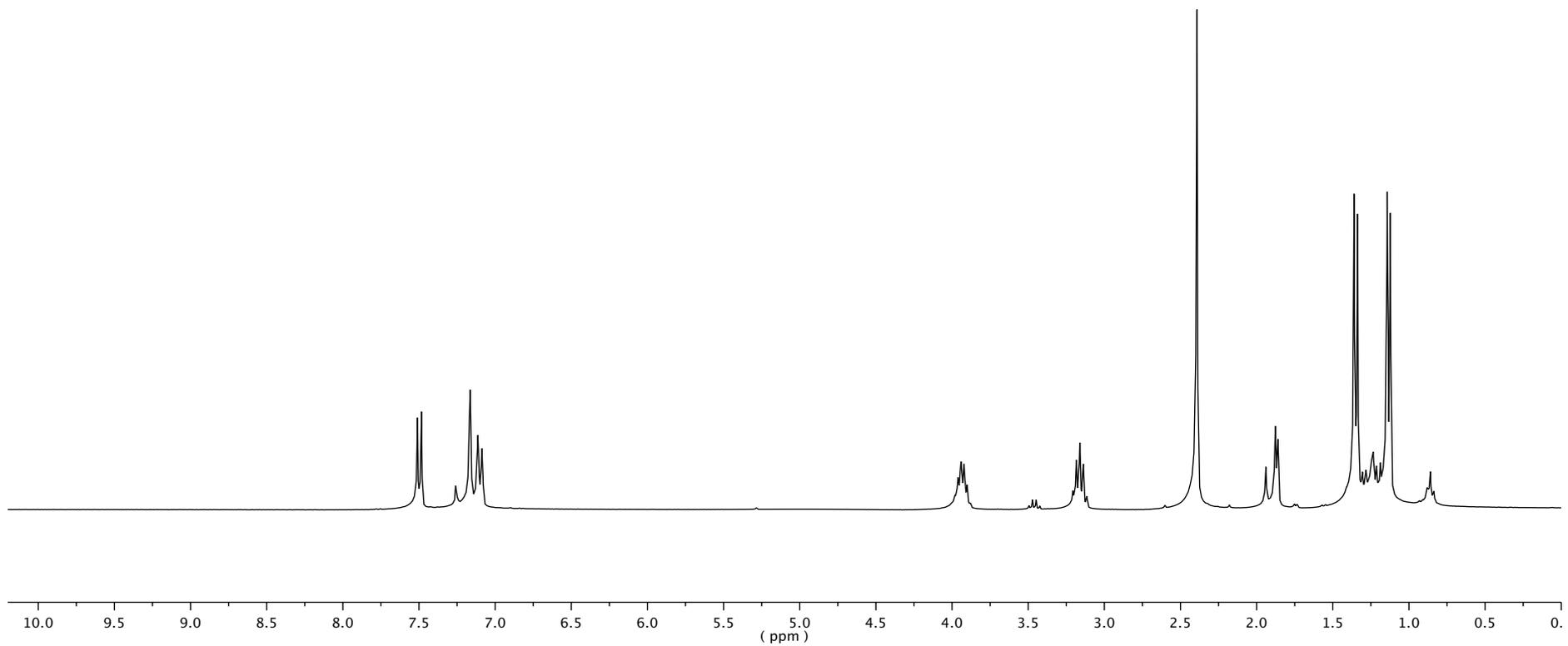


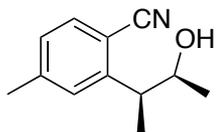




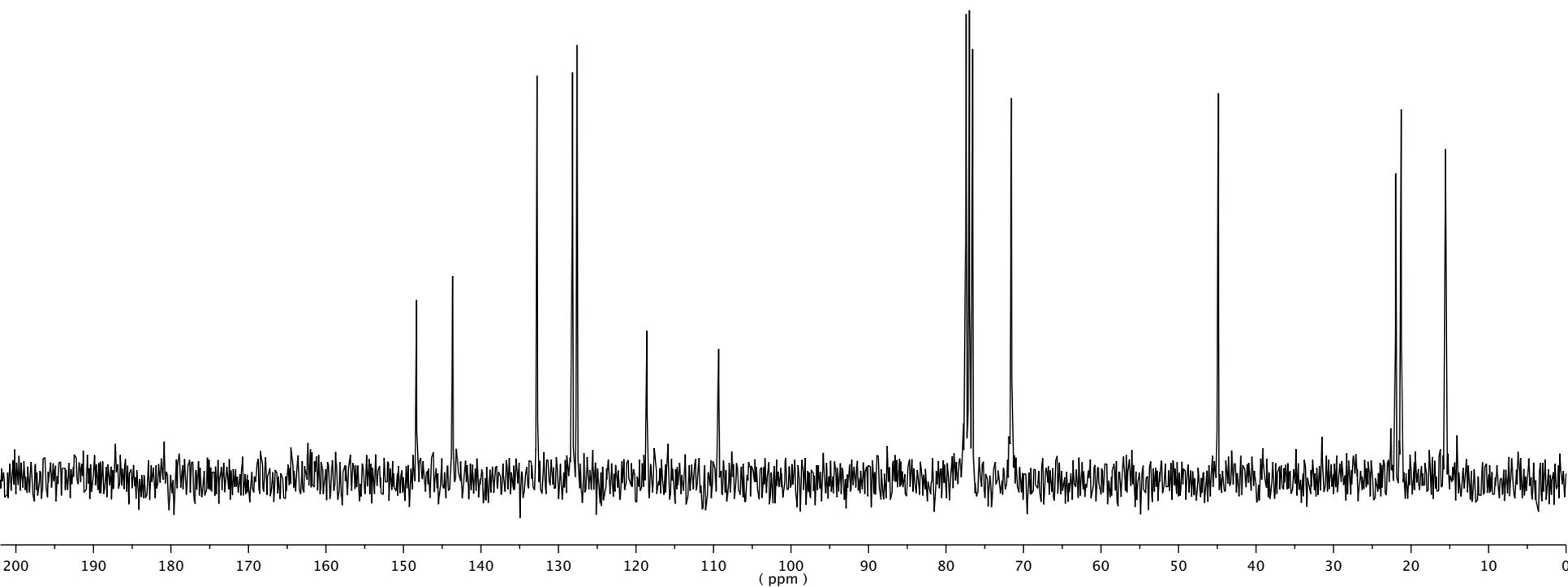


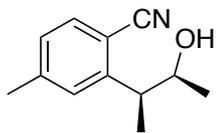
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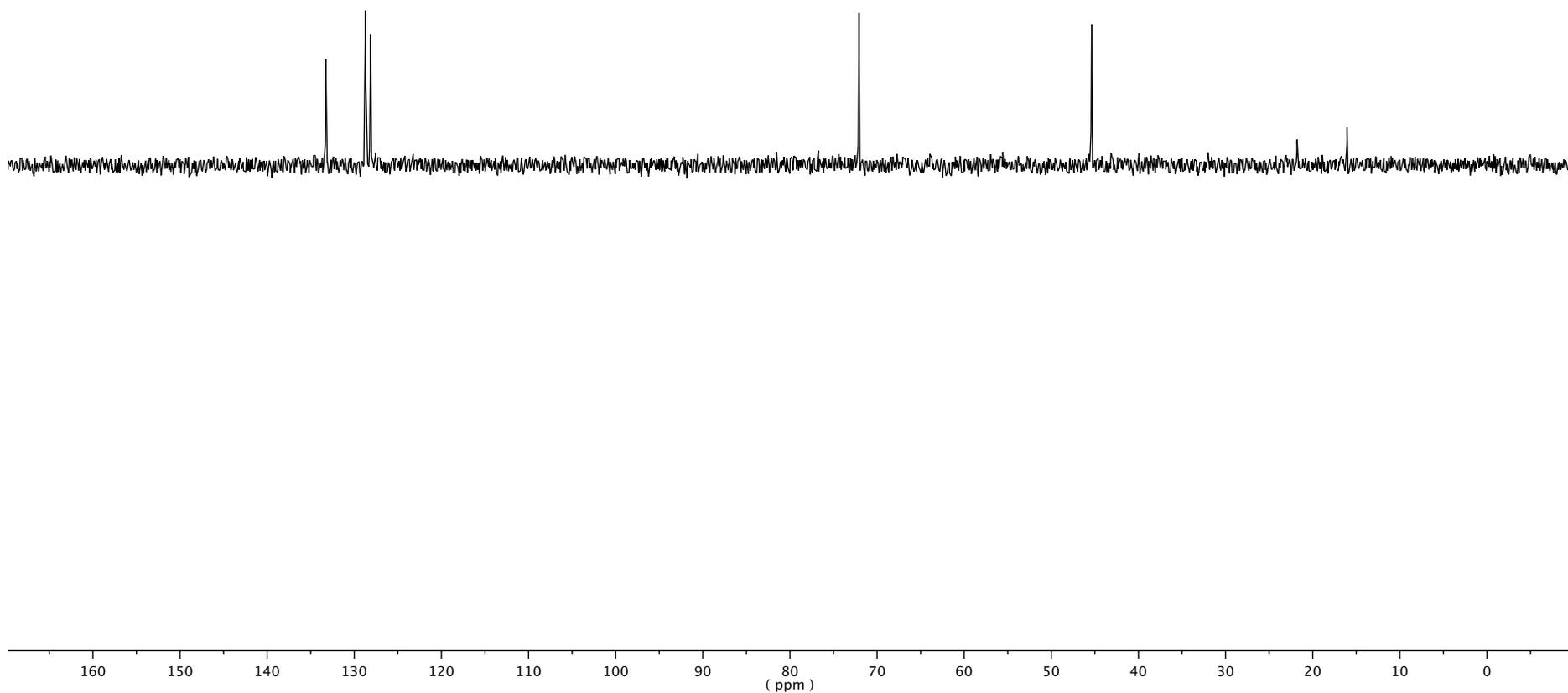


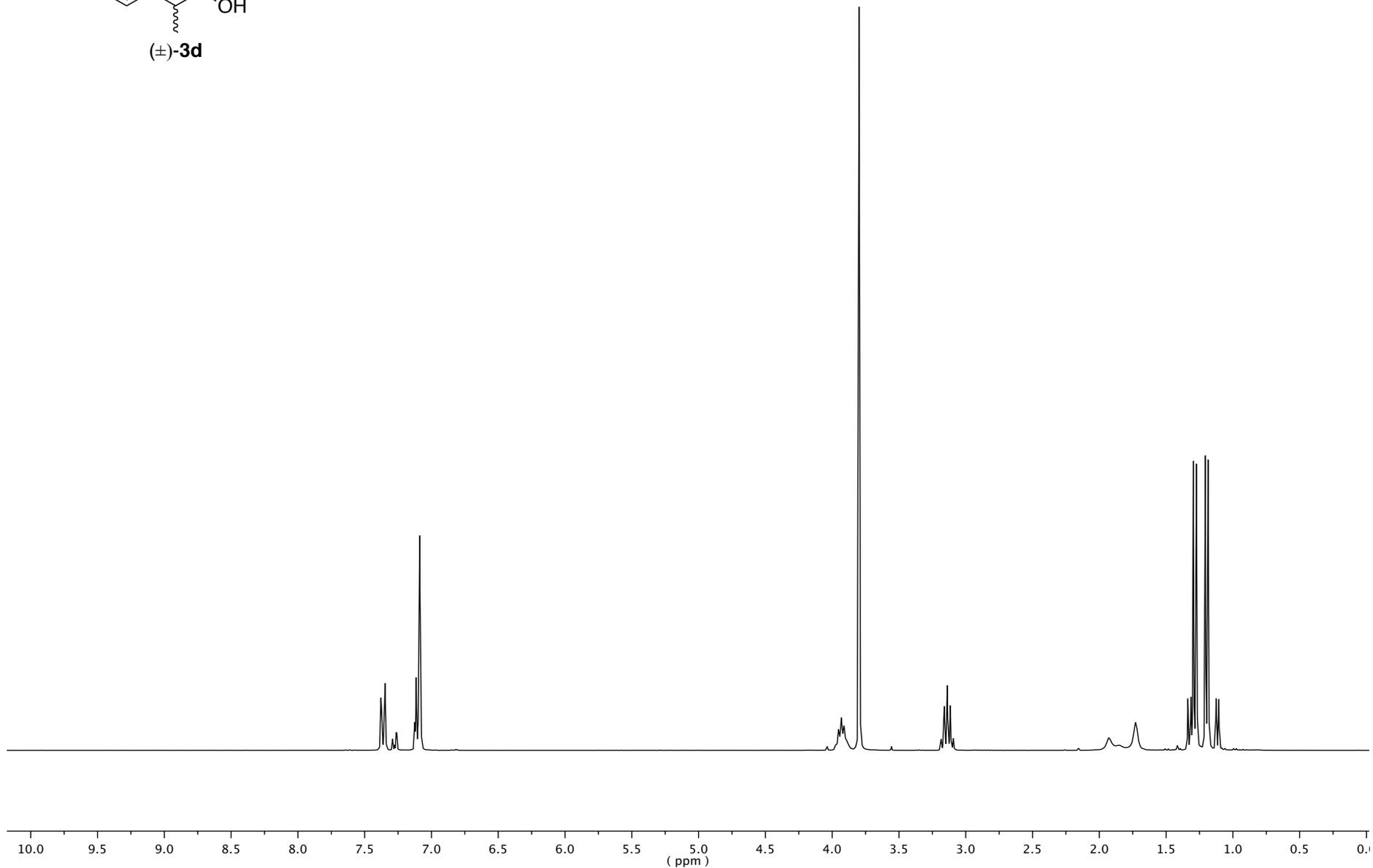
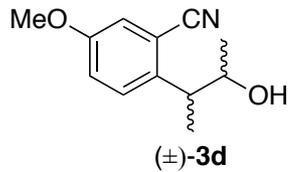
(2*S*,3*S*)-3c

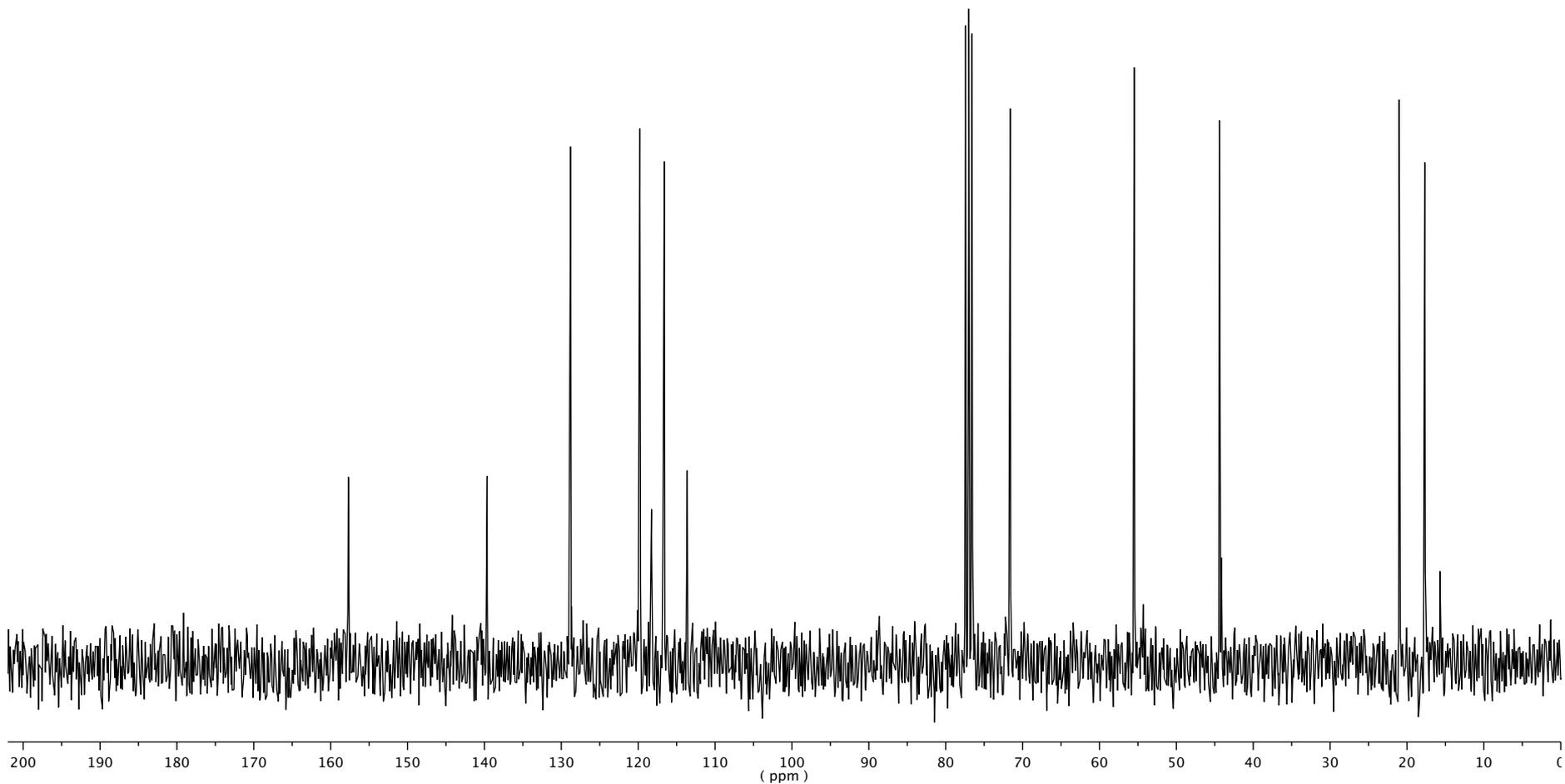
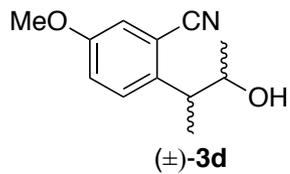


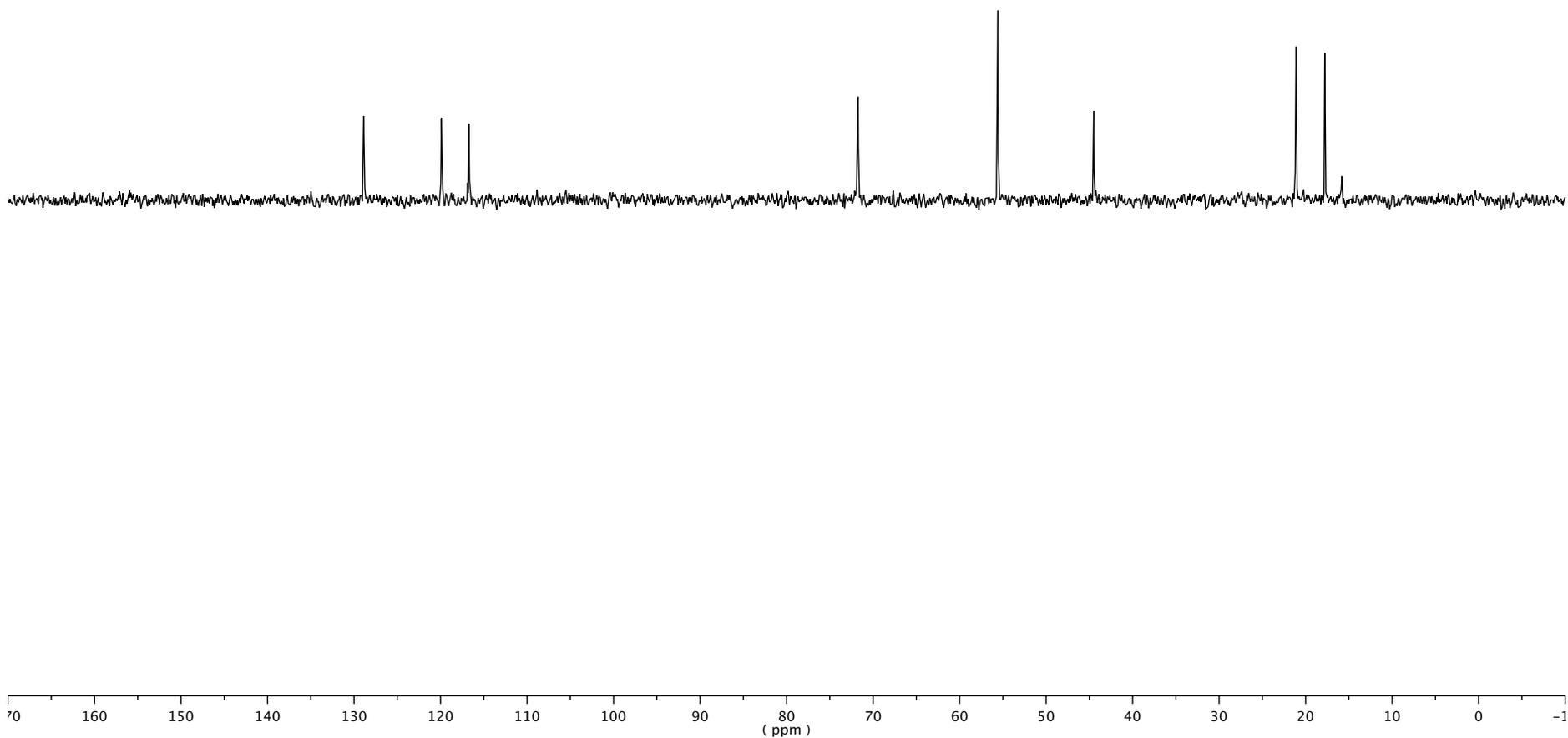
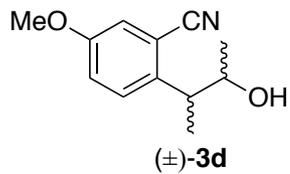


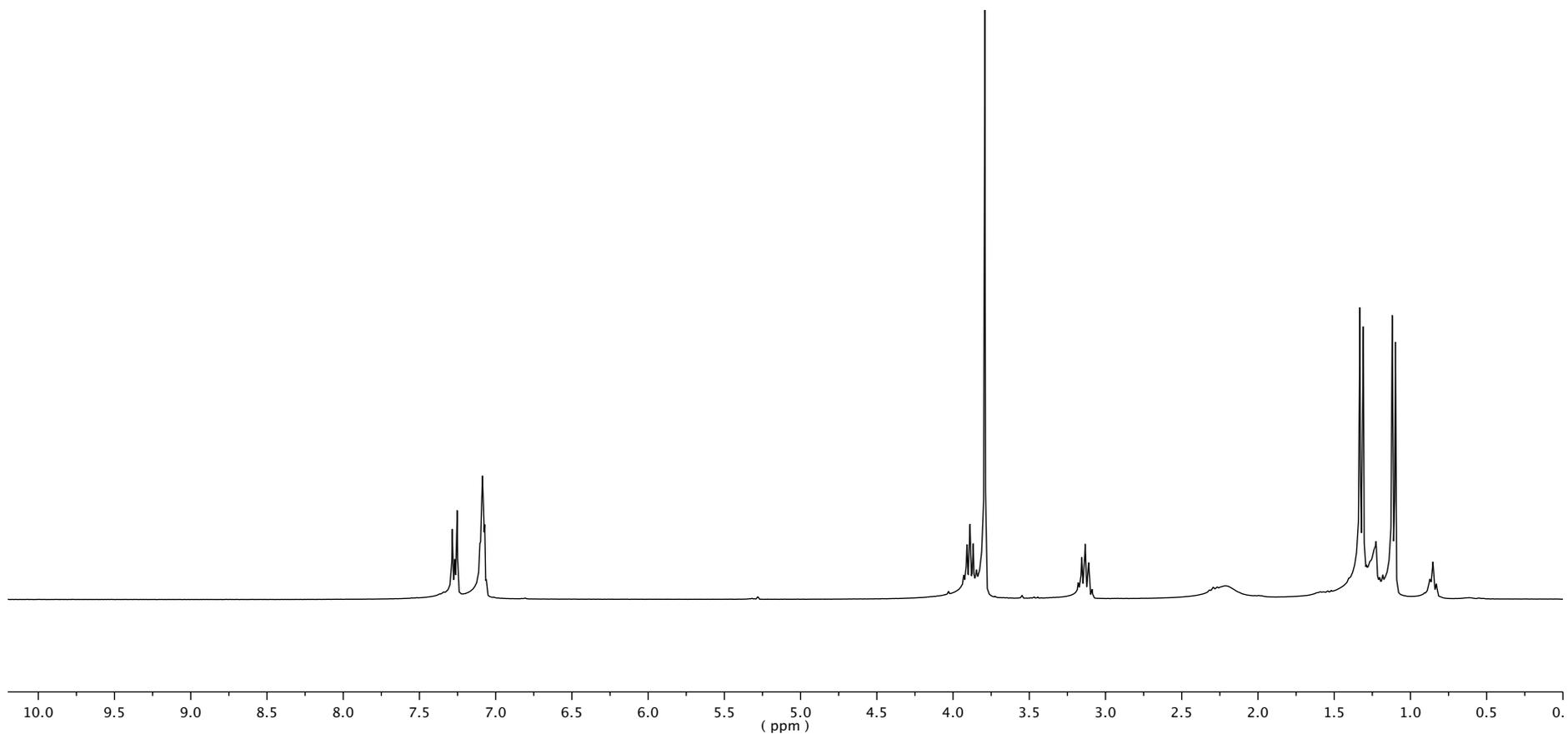
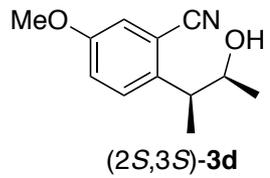
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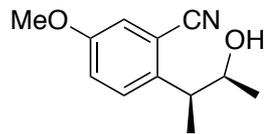




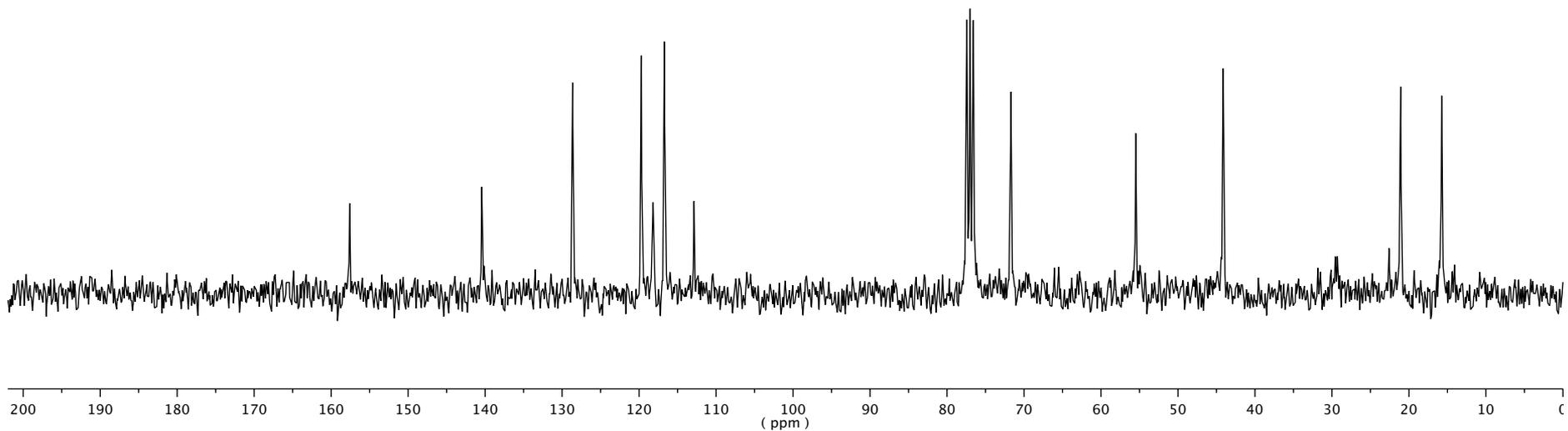


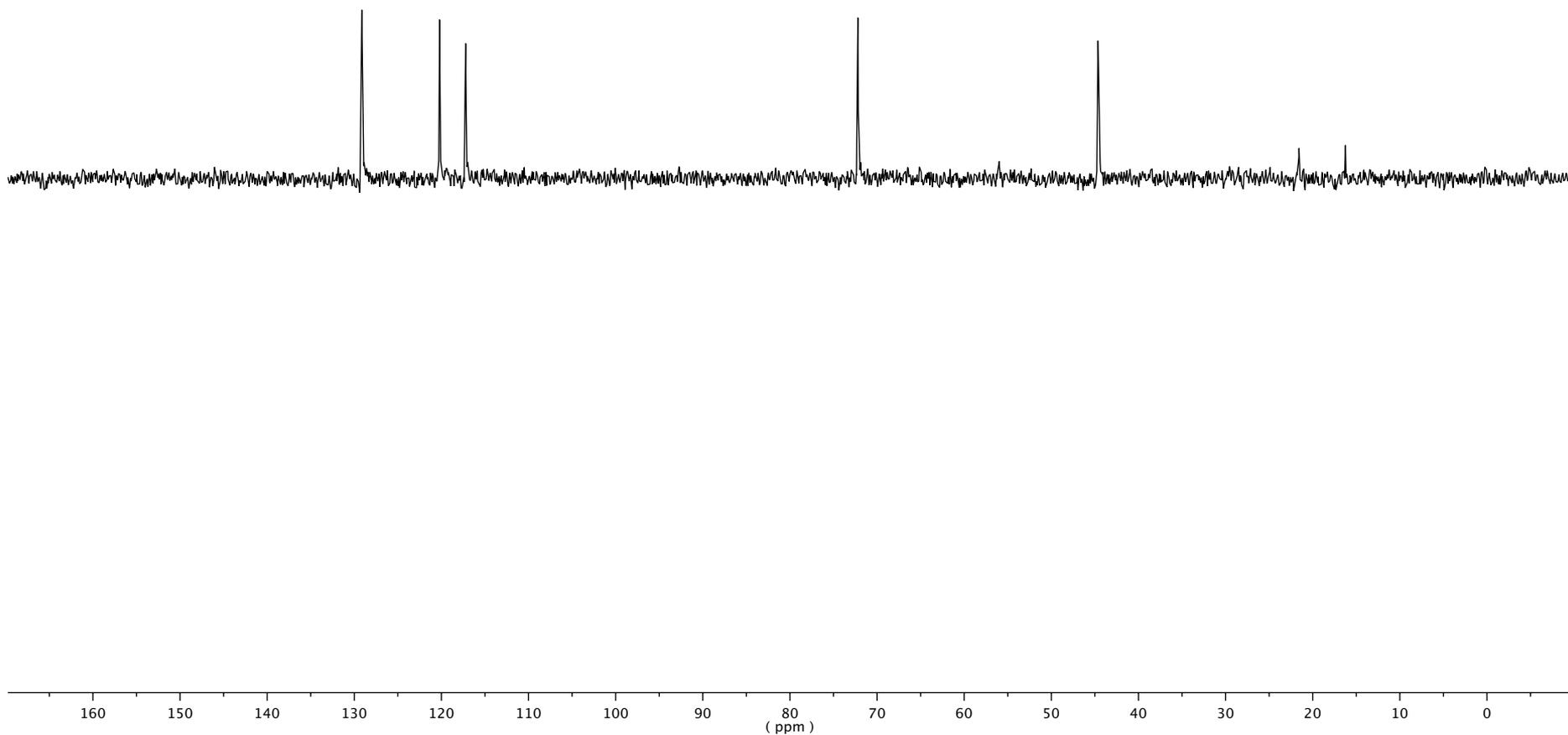
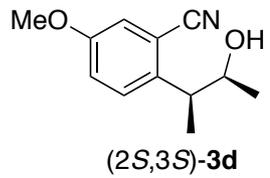


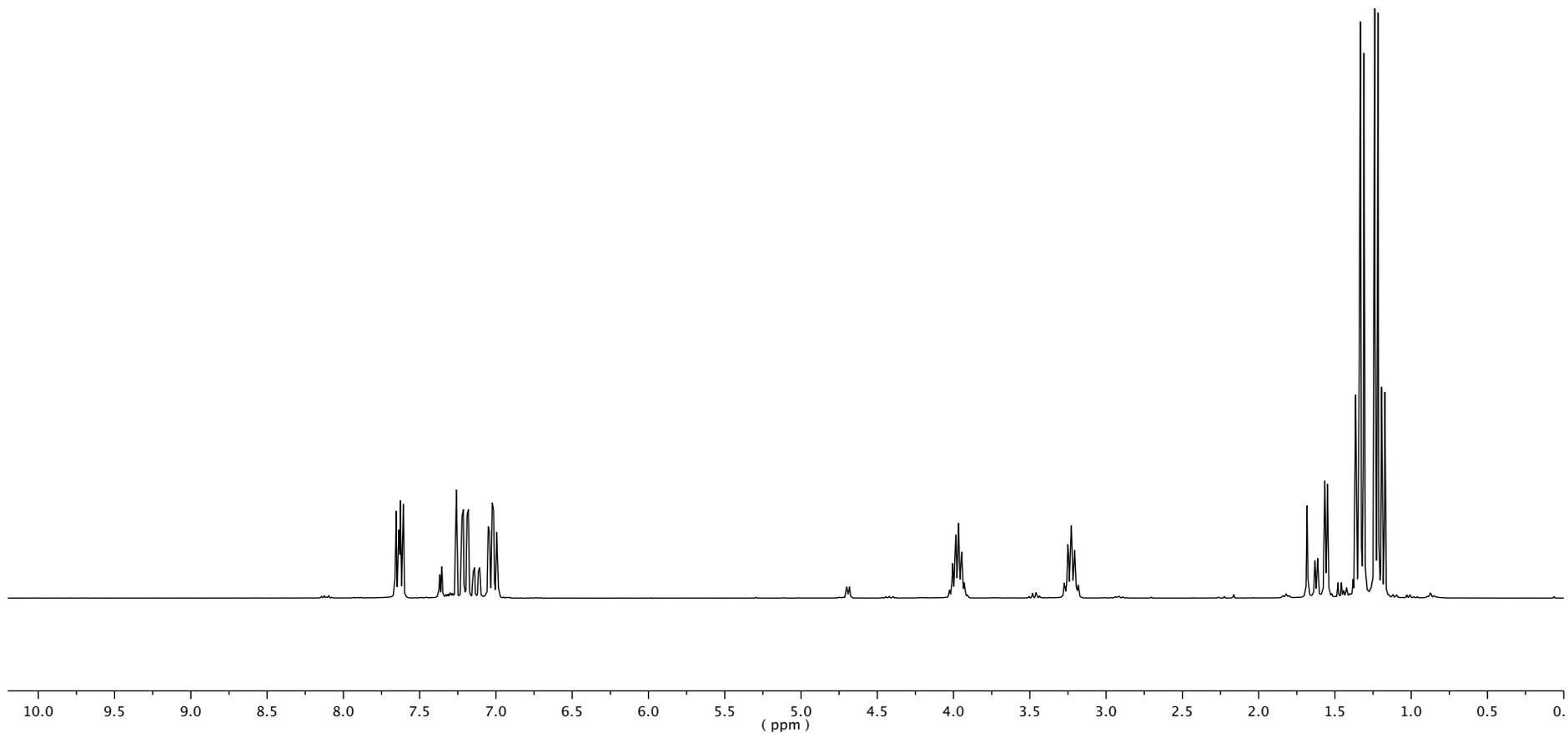
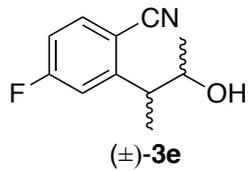


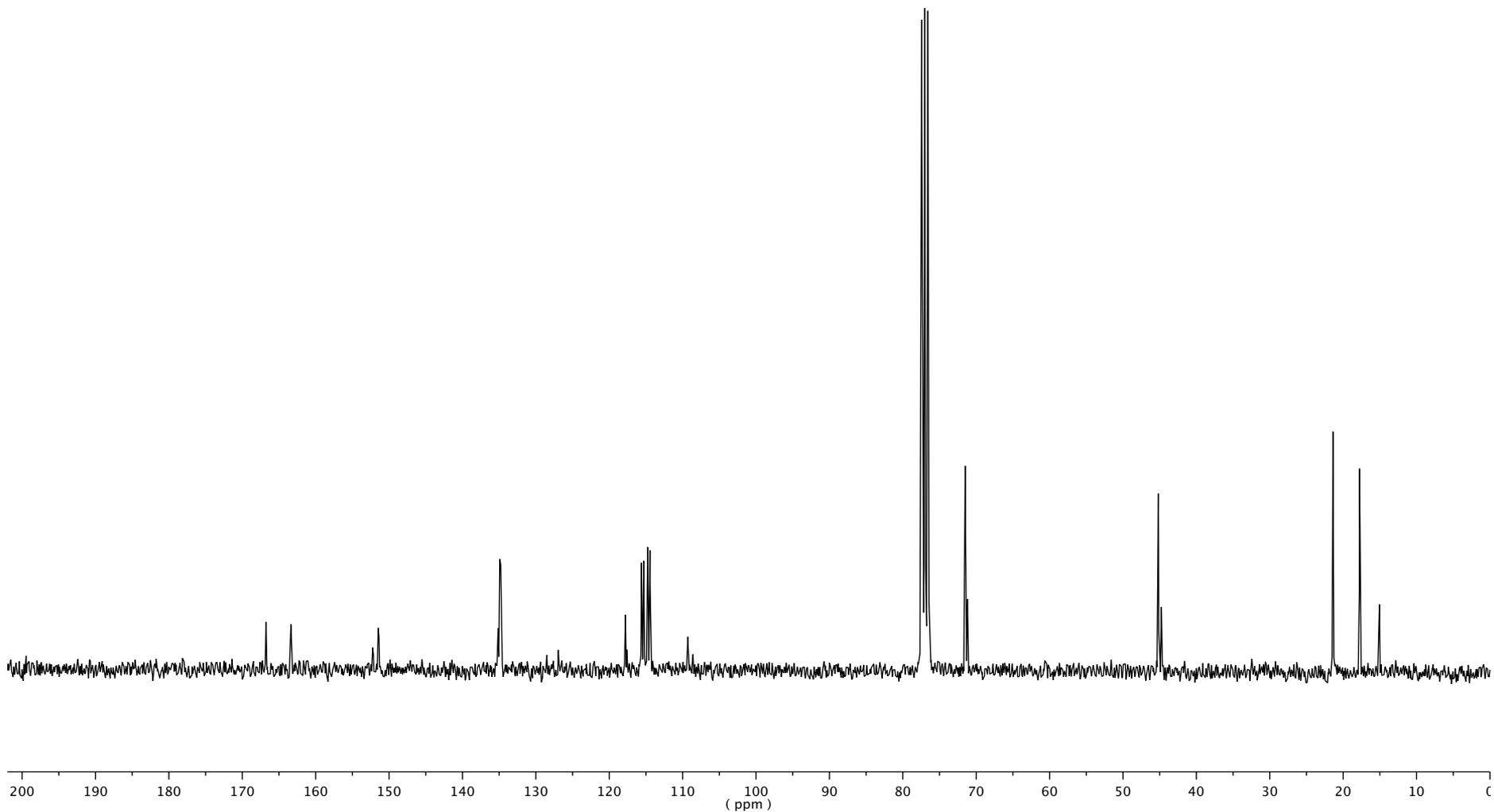
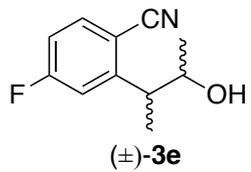


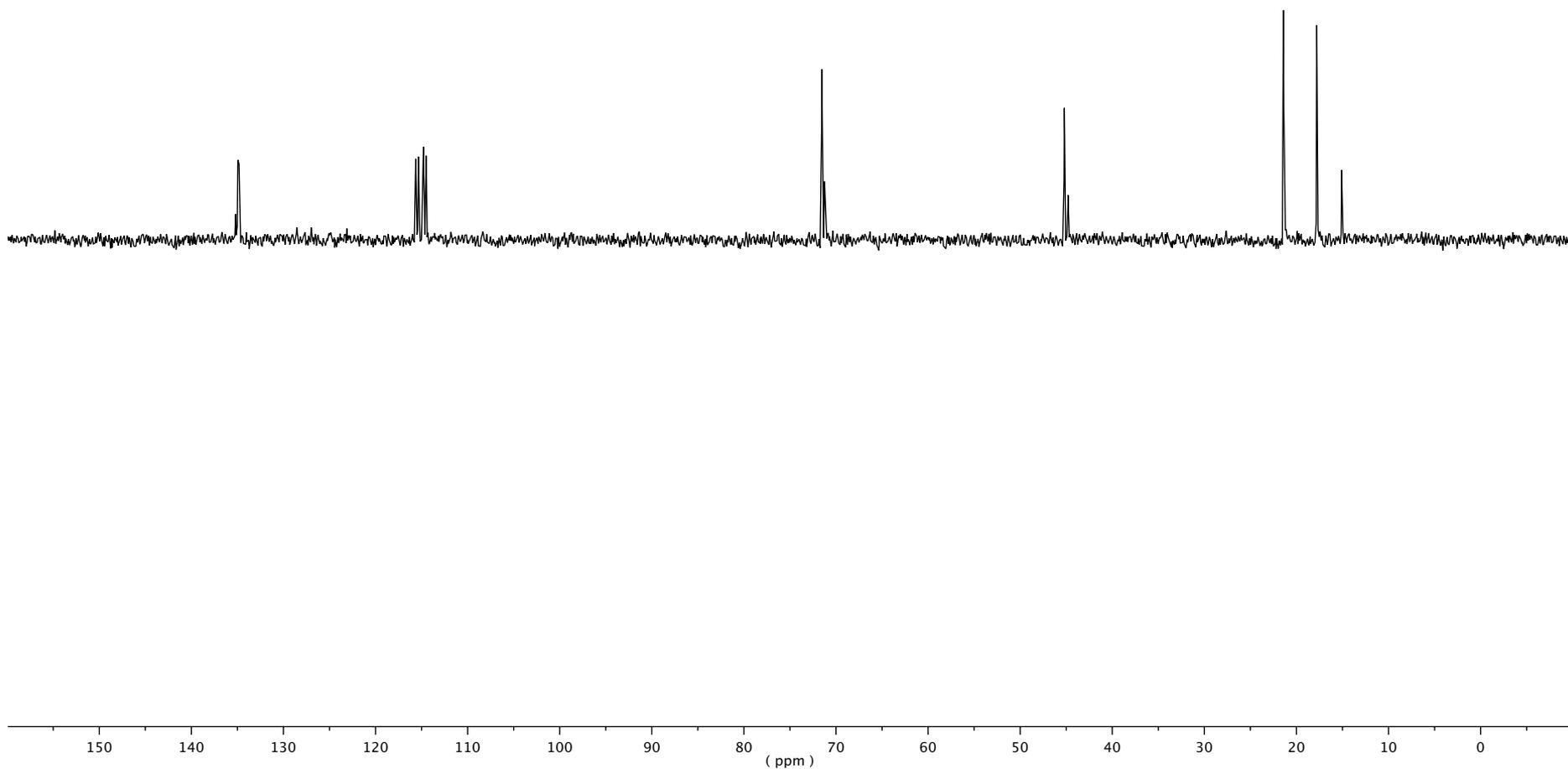
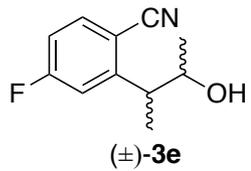
(2*S*,3*S*)-**3d**

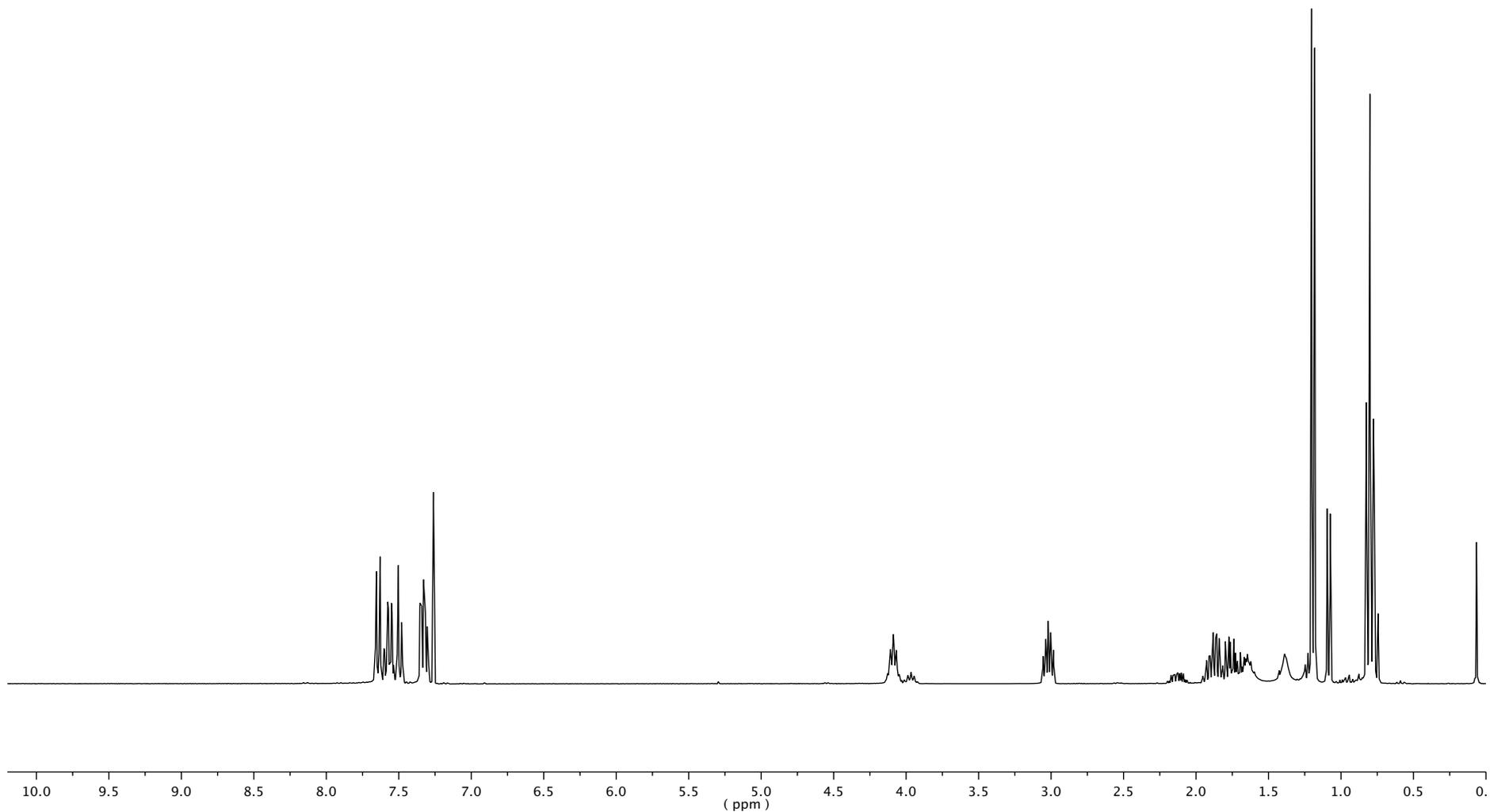
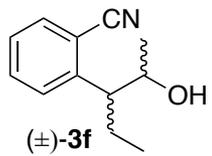


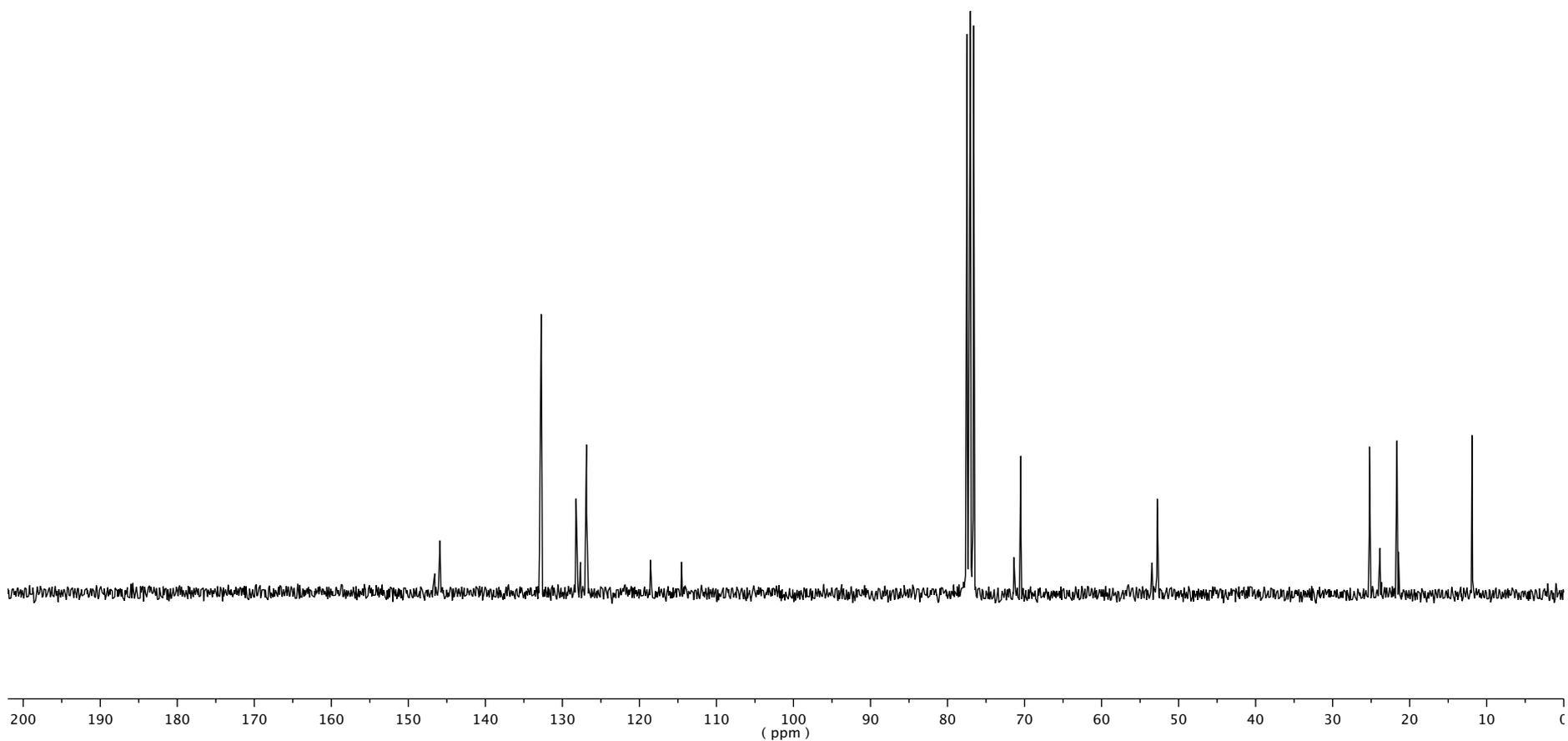
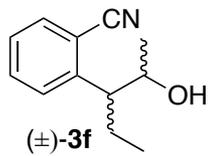


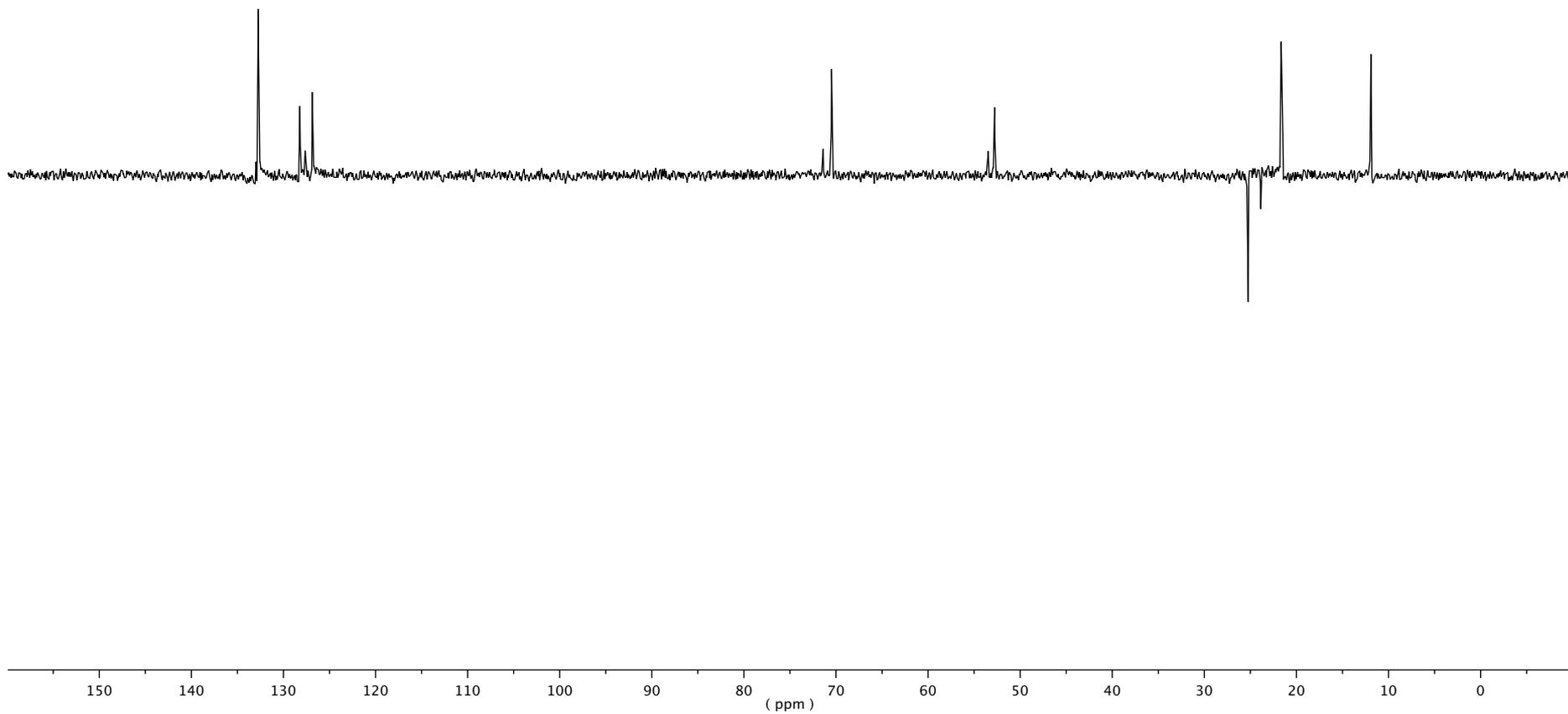
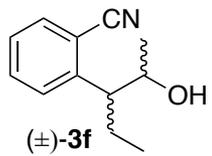


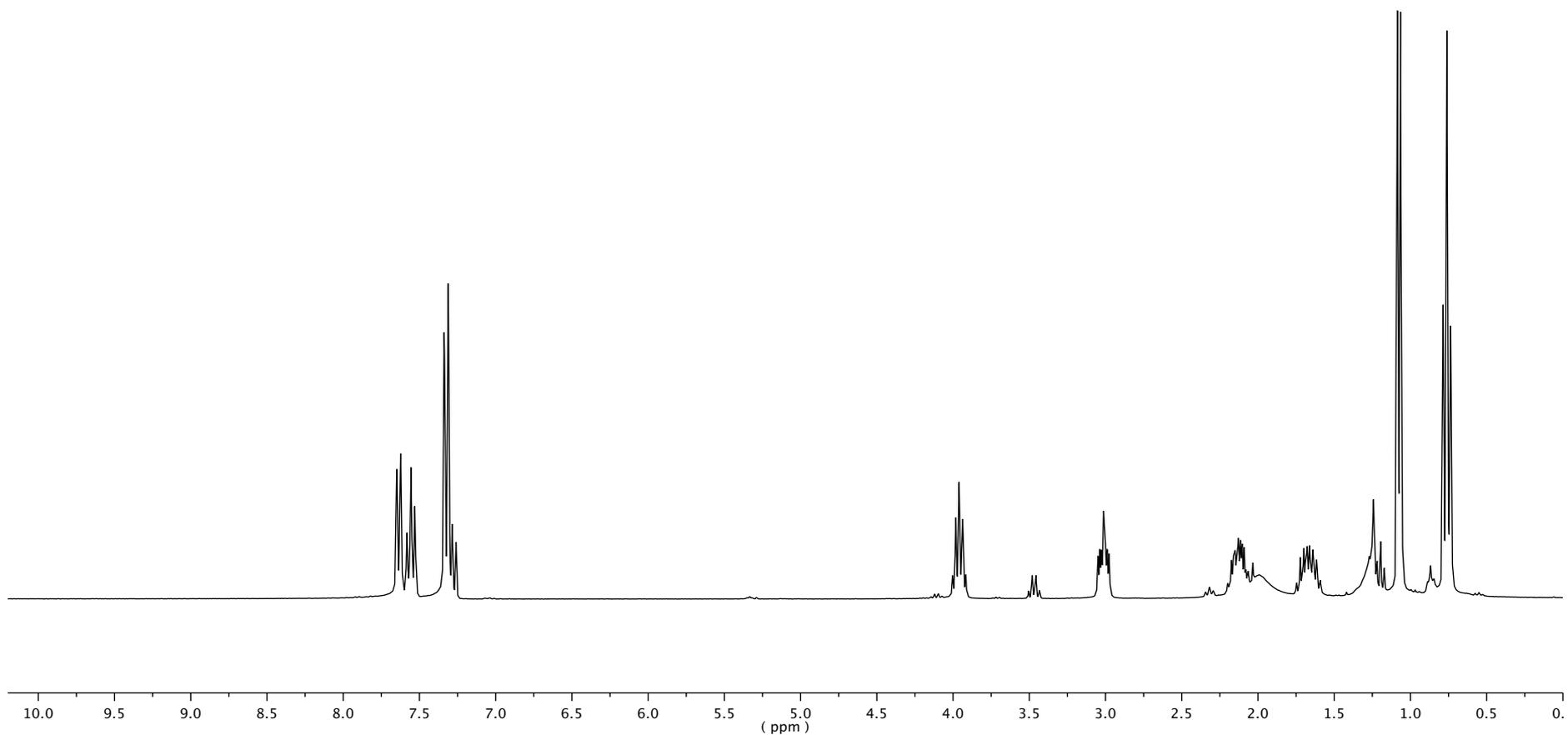
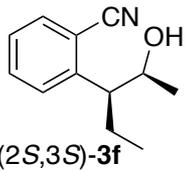


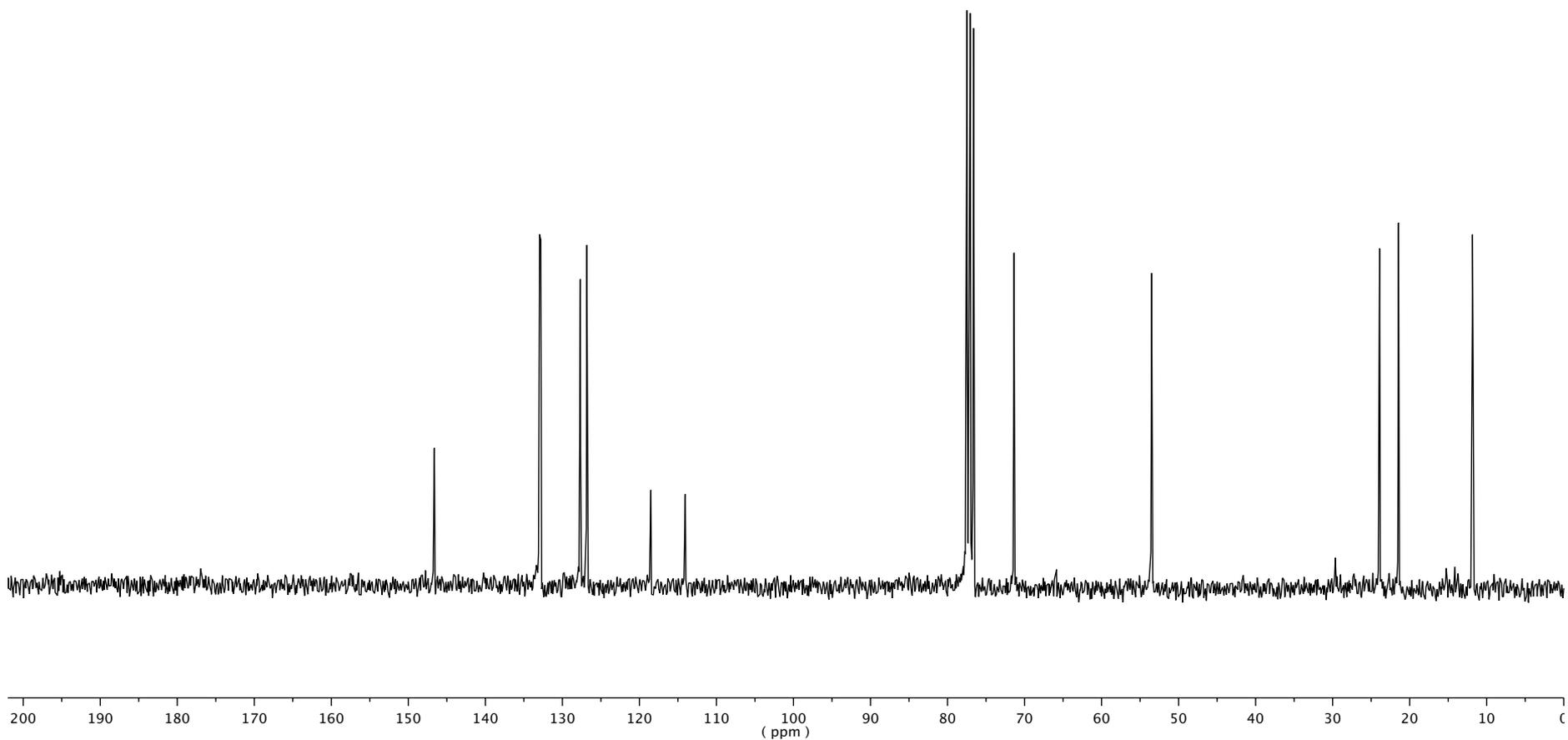
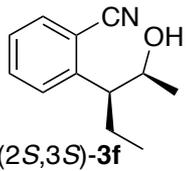


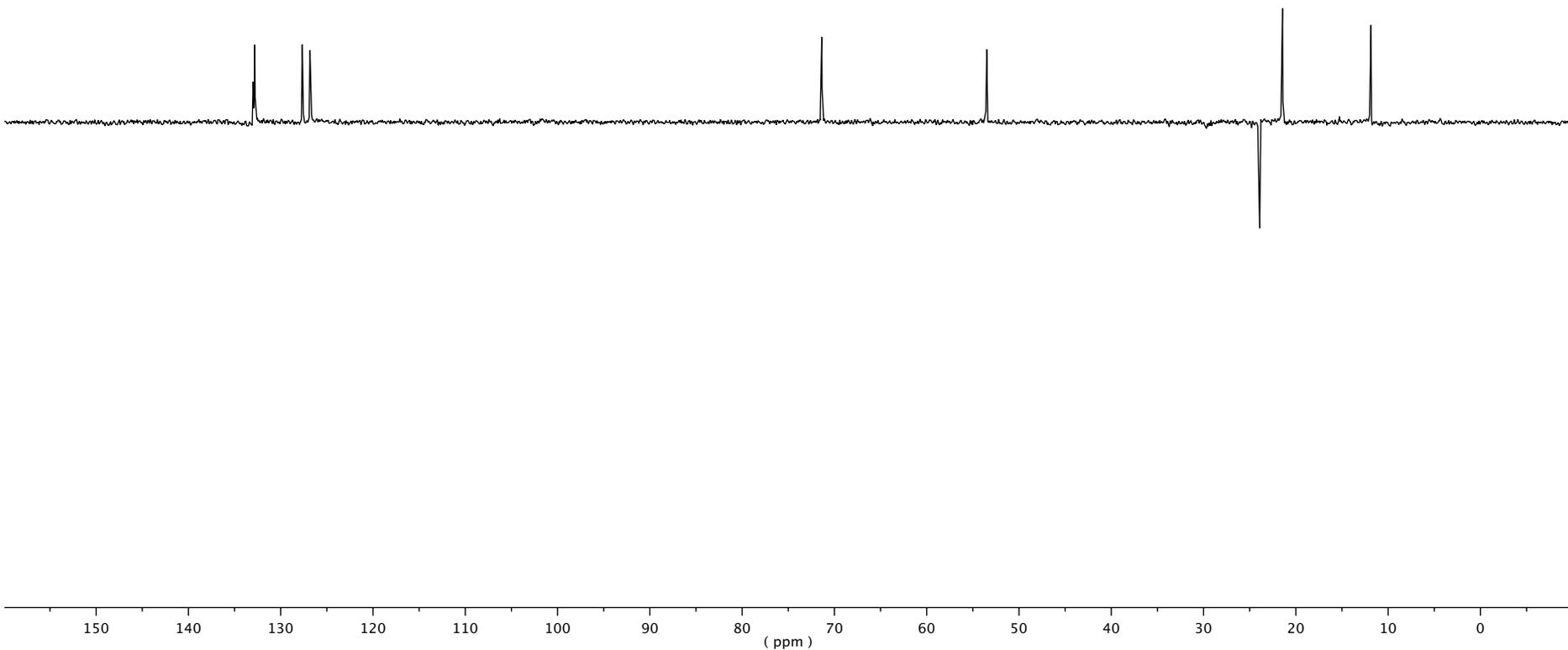
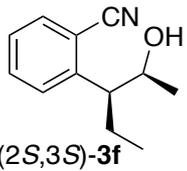


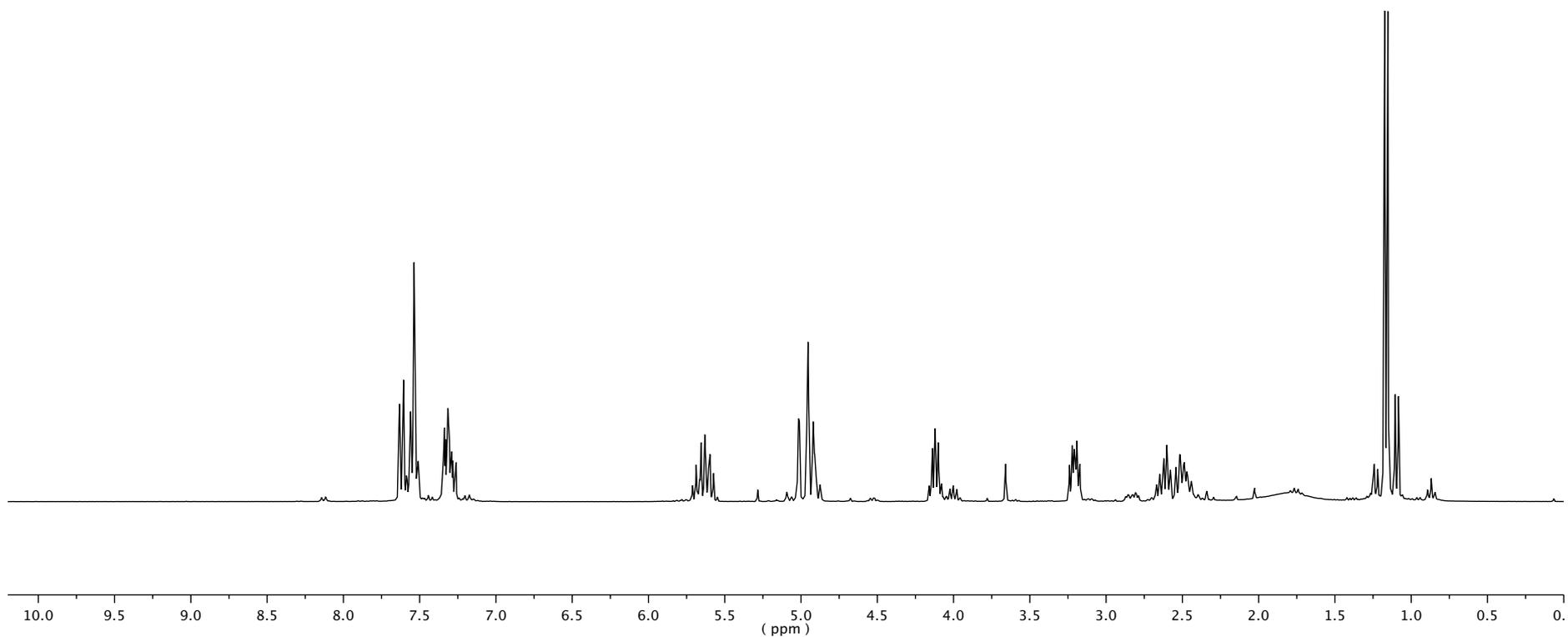
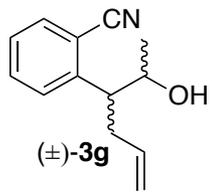


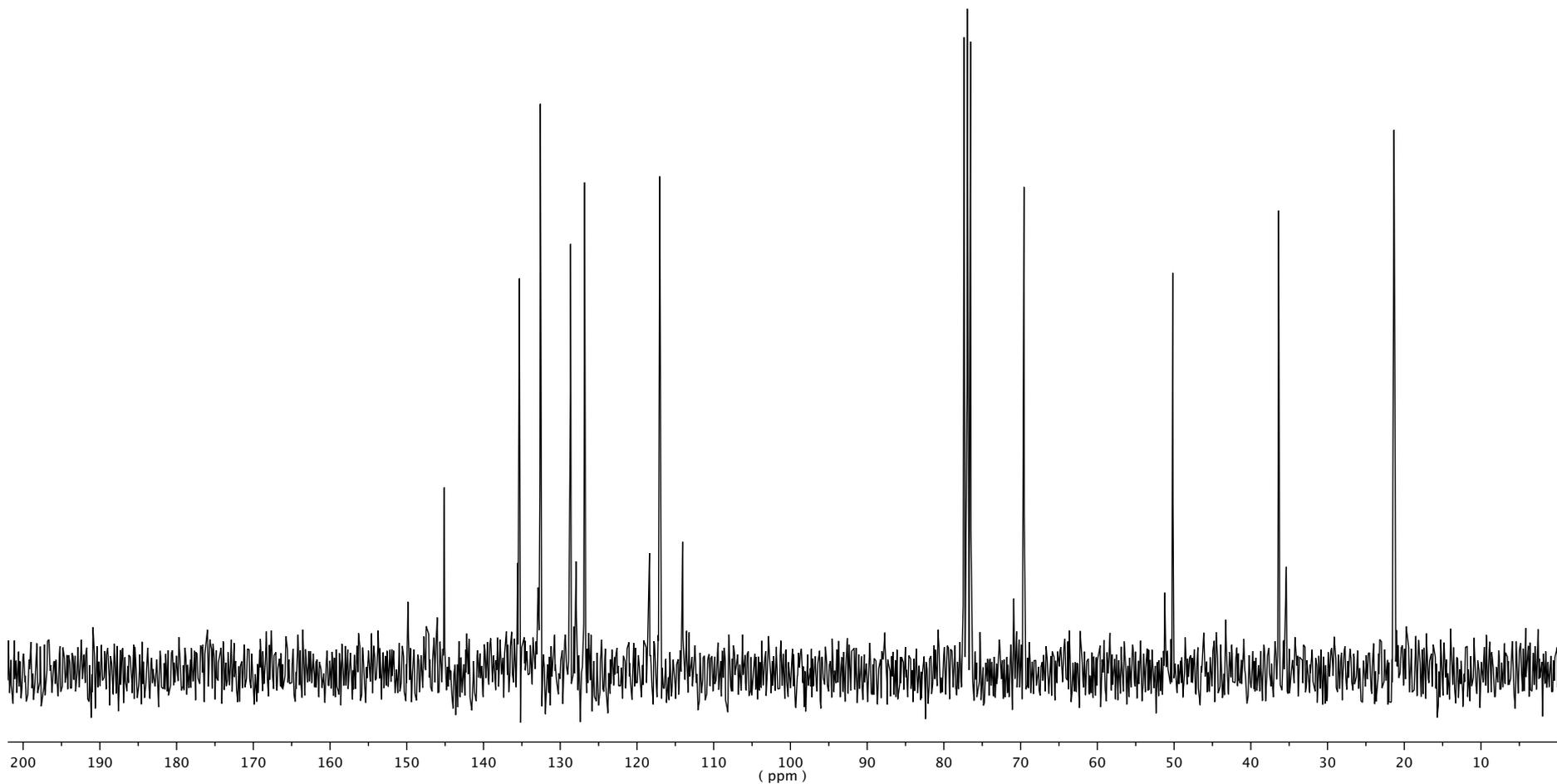
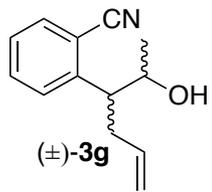


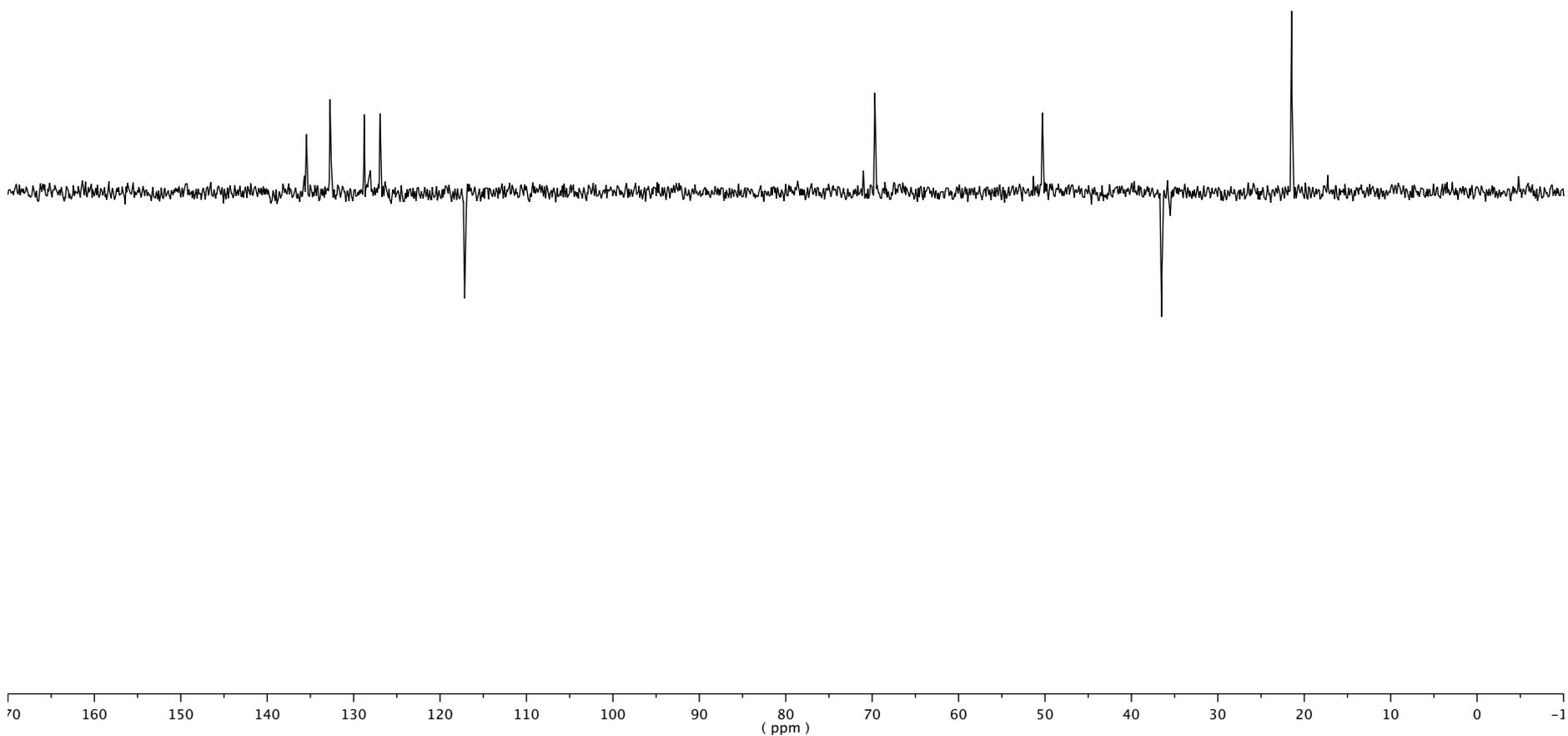
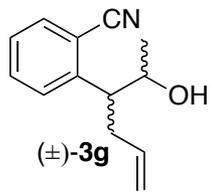


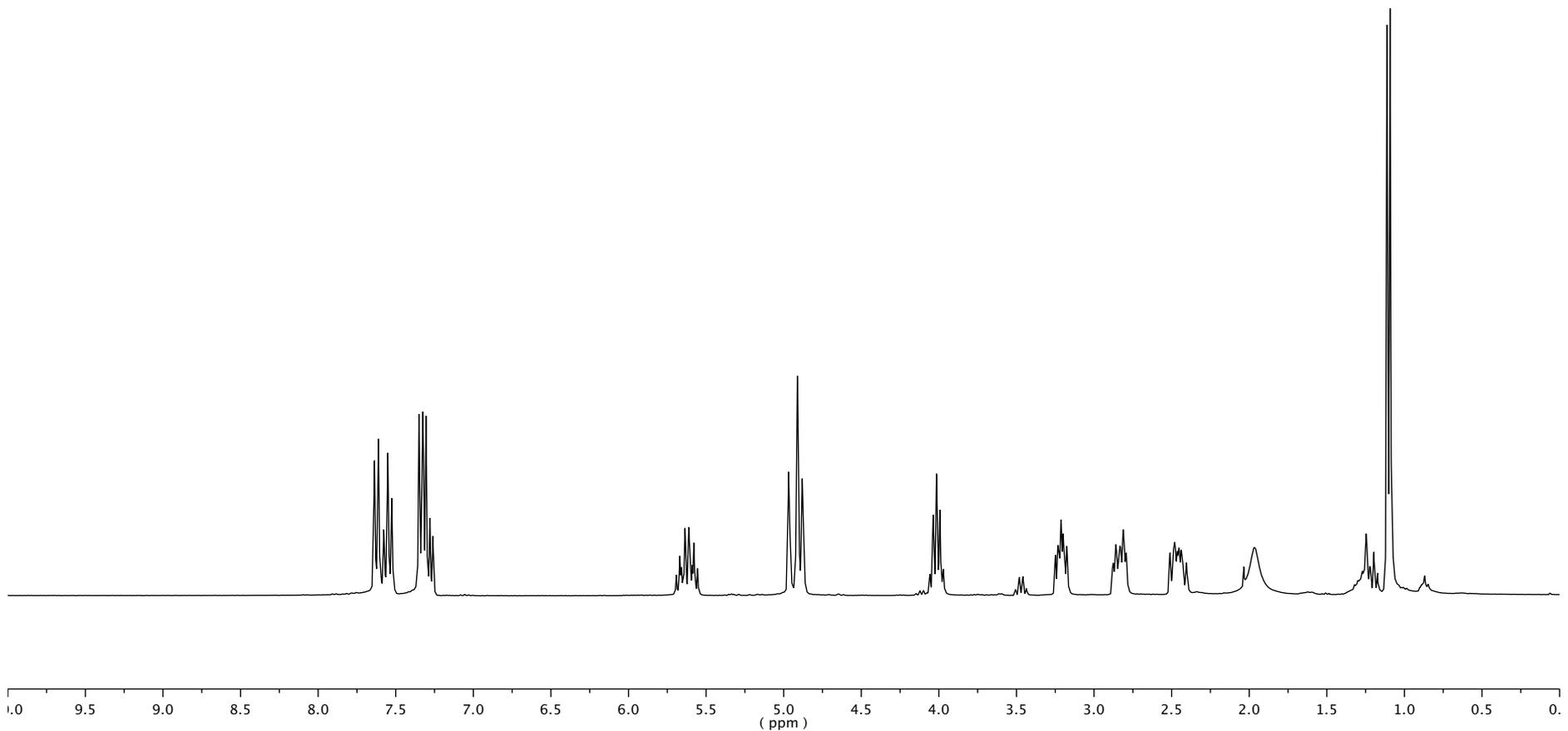
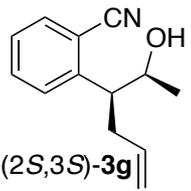


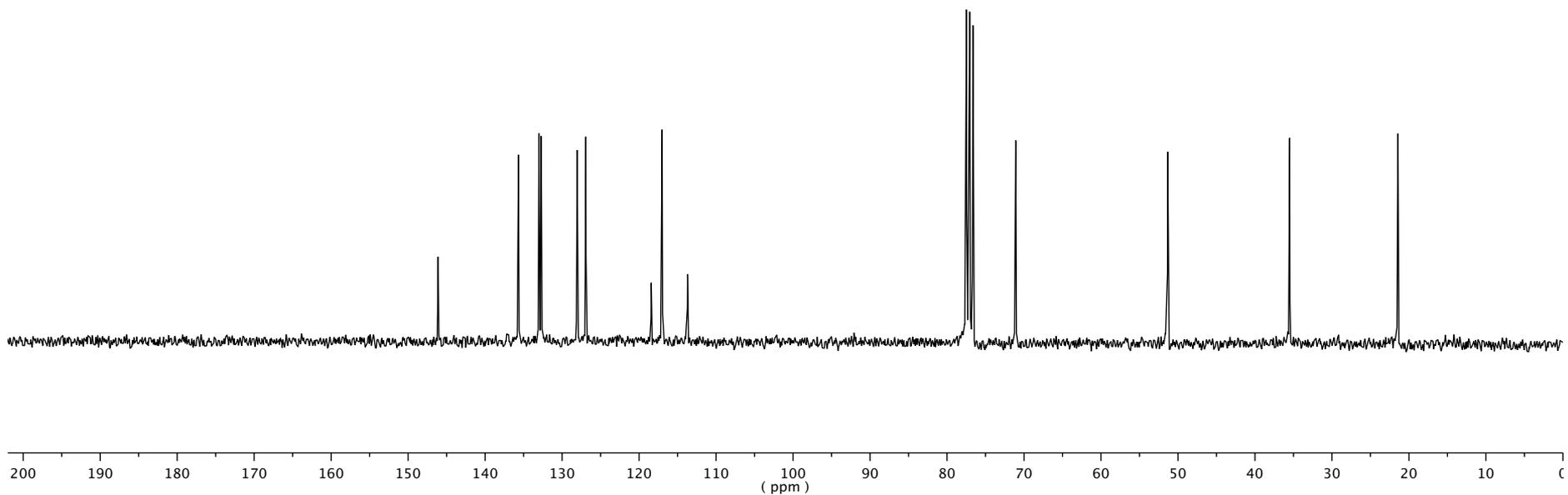
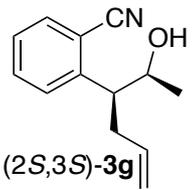


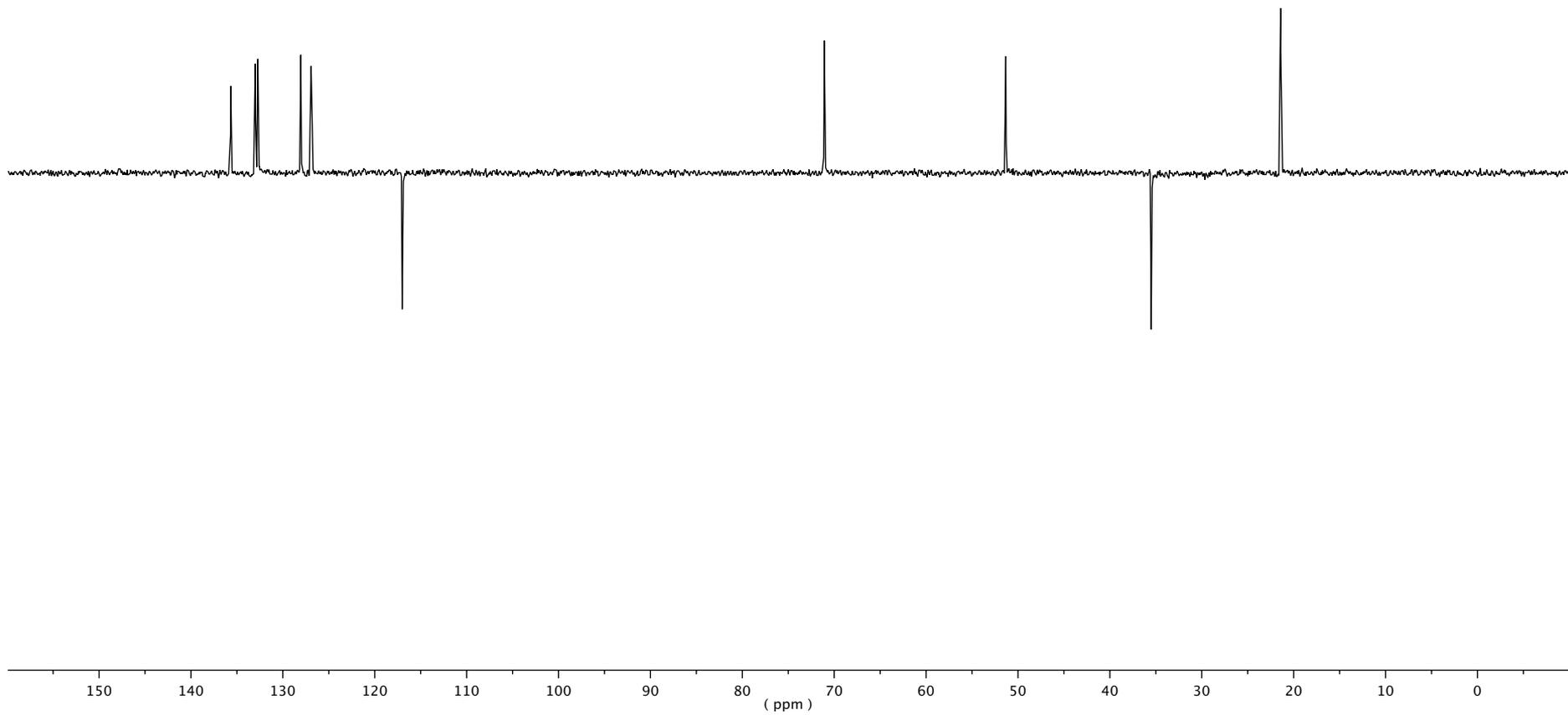
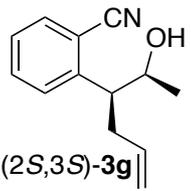


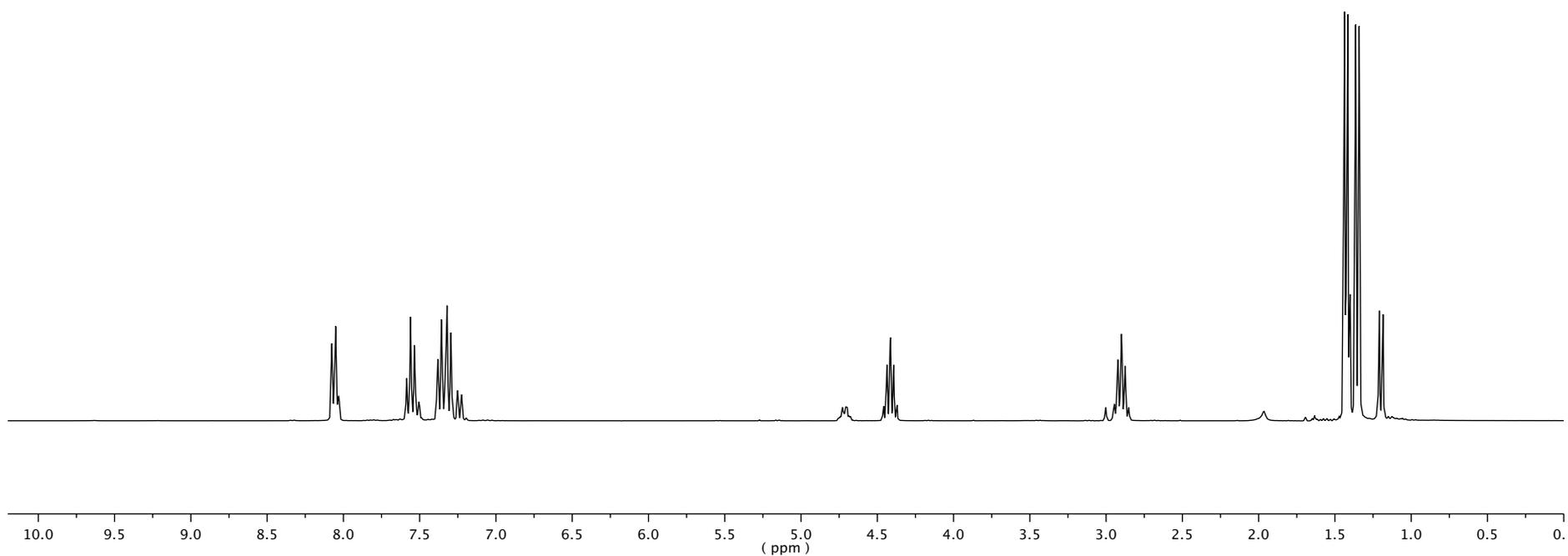
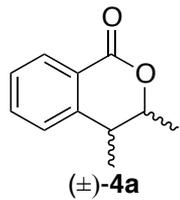


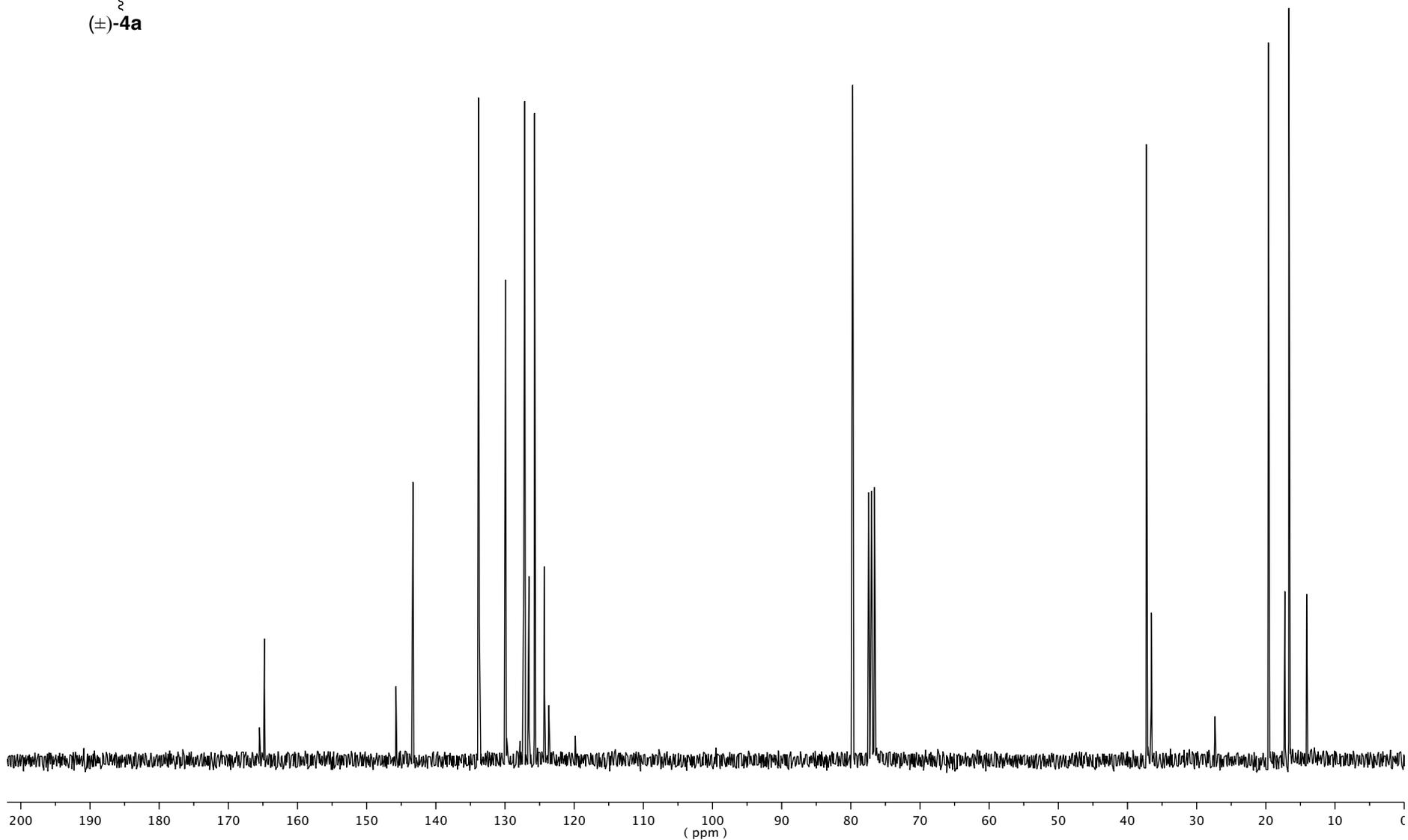
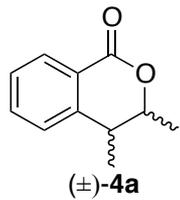


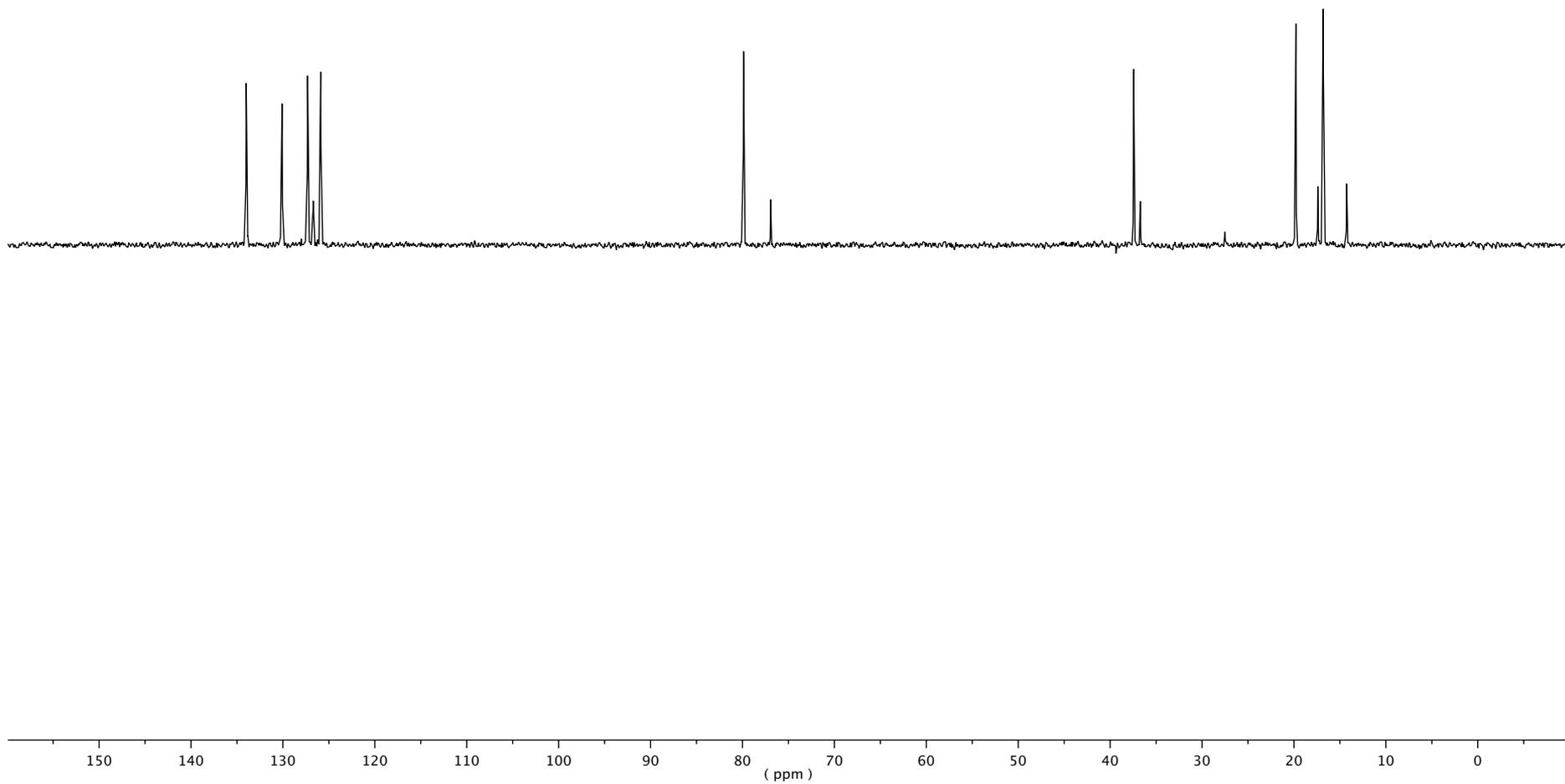
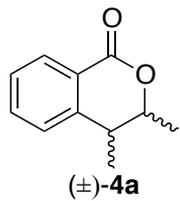


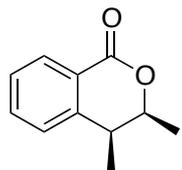




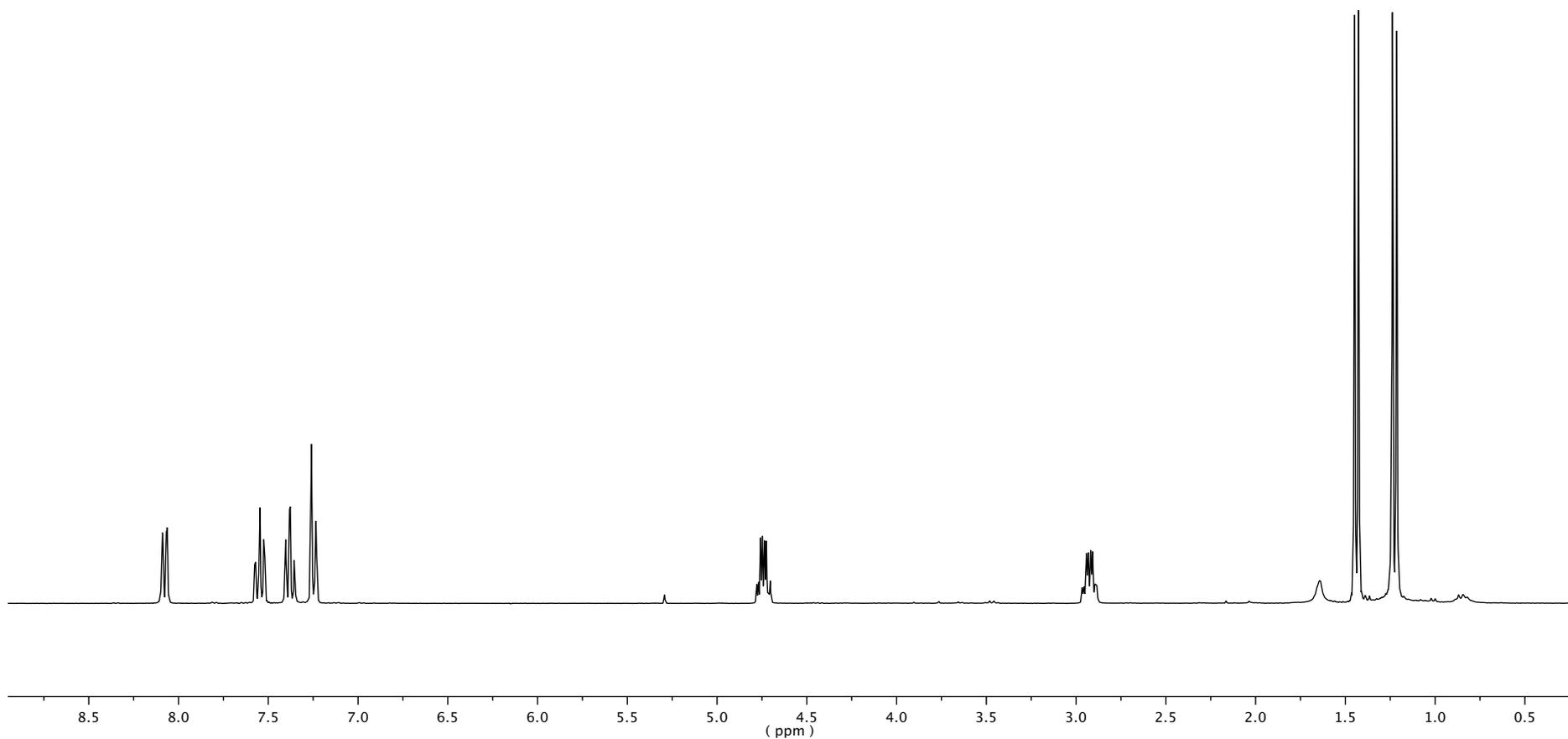


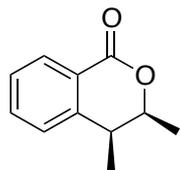




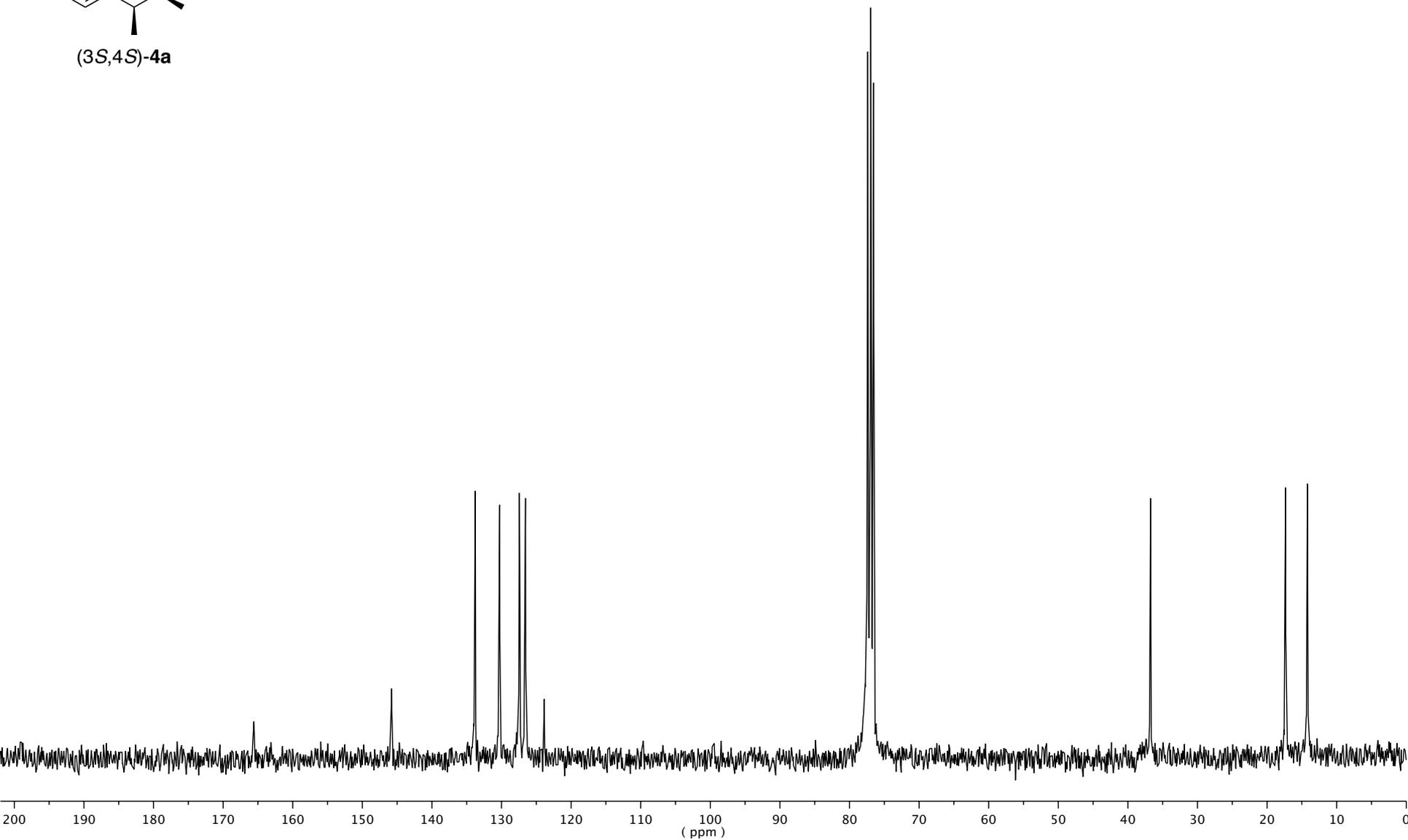


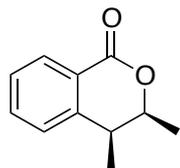
(3*S*,4*S*)-4a



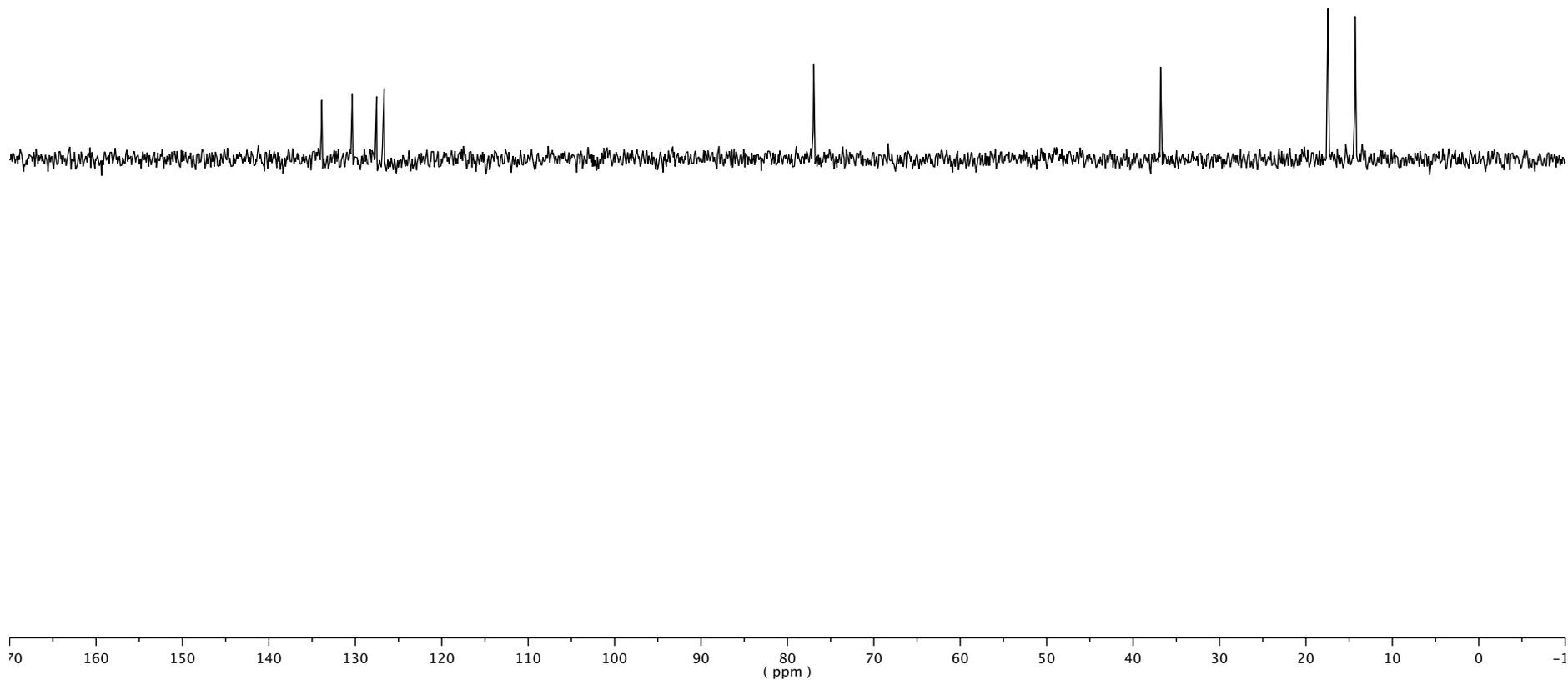


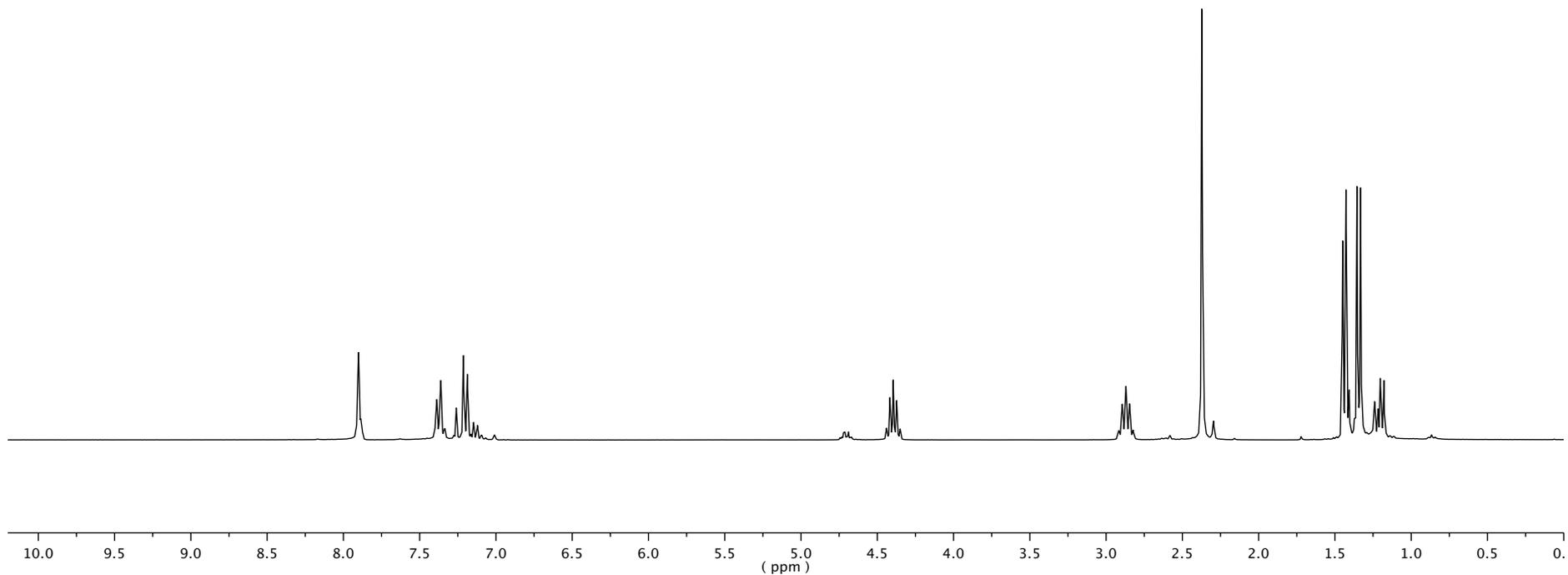
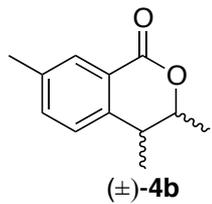
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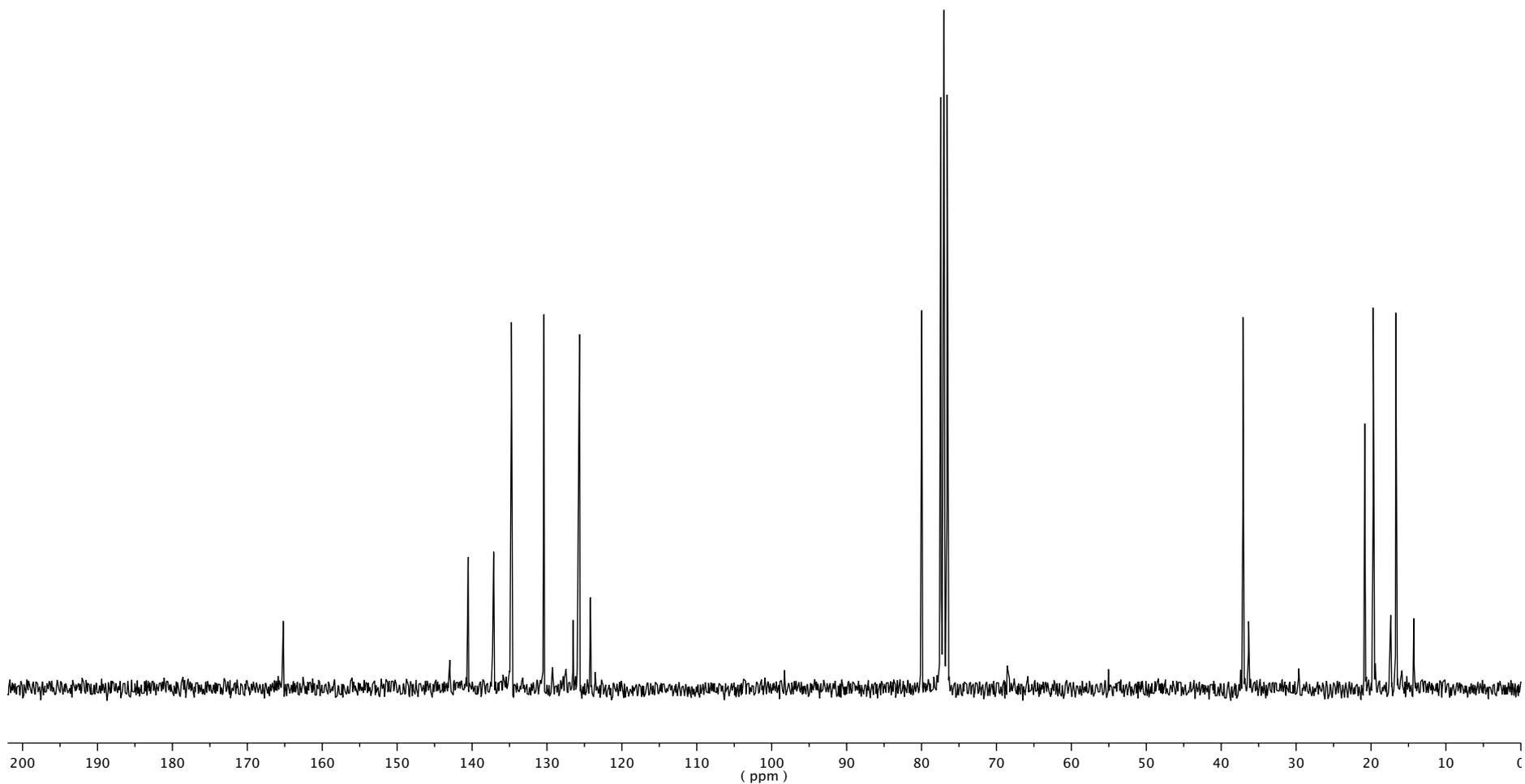
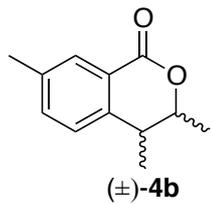


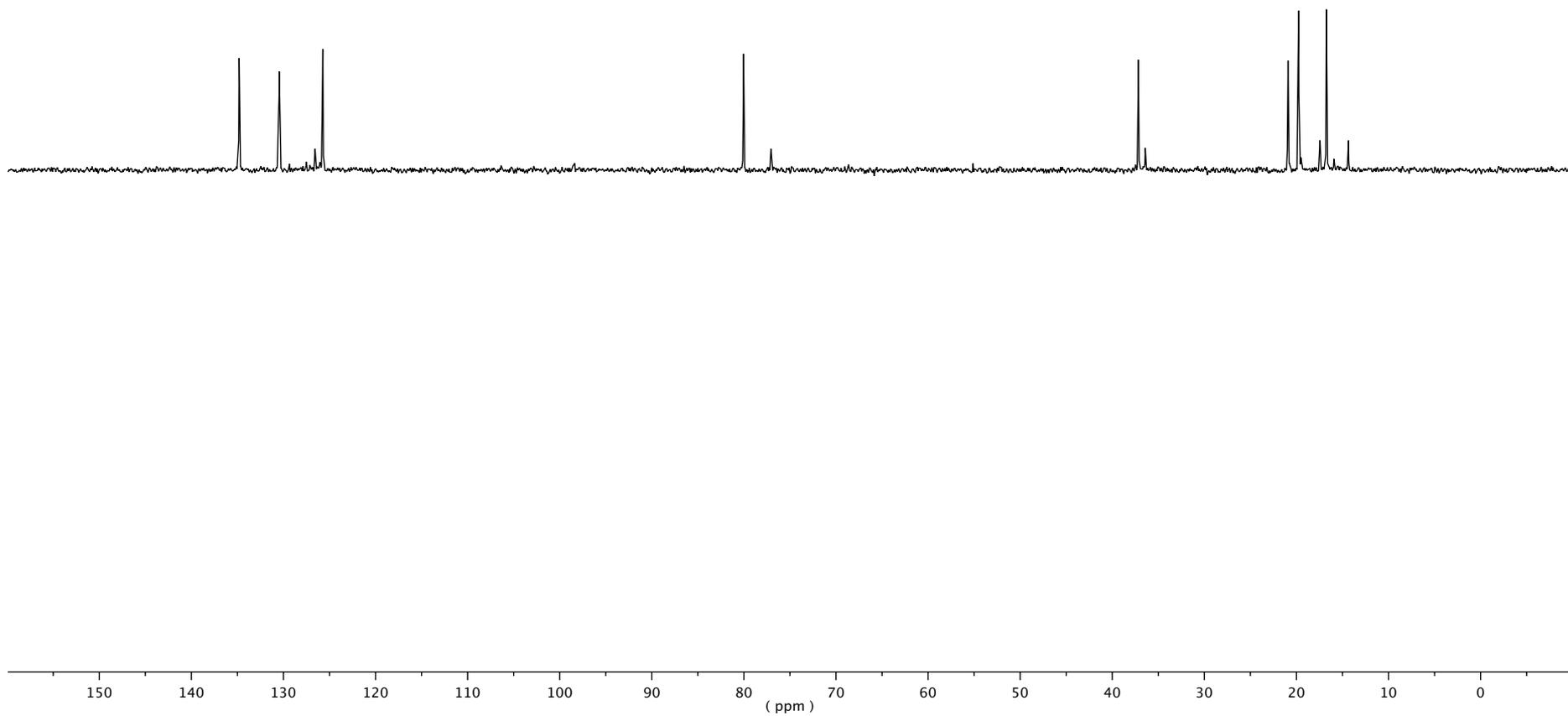
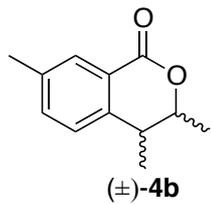


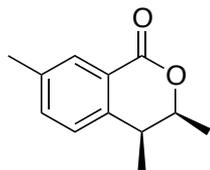
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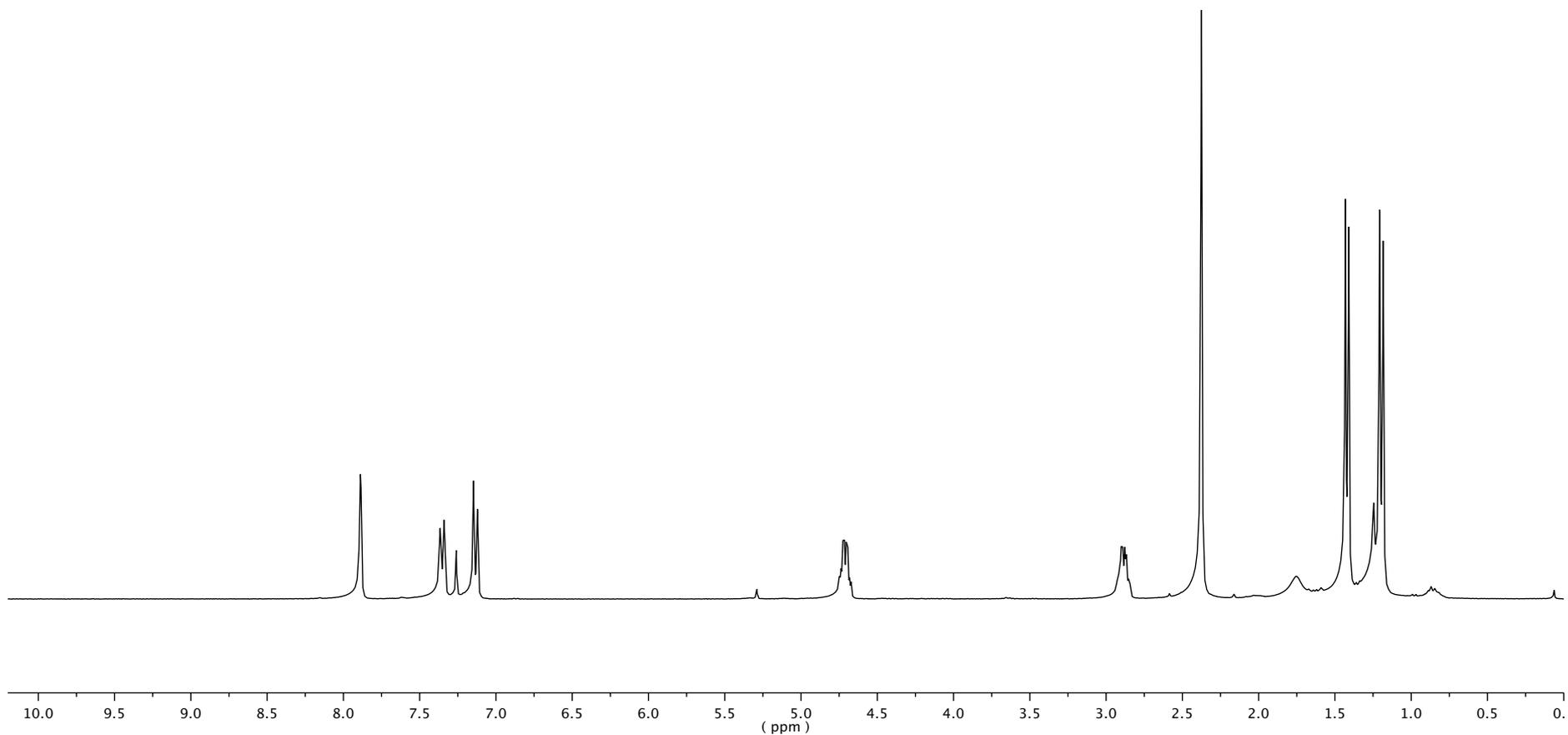


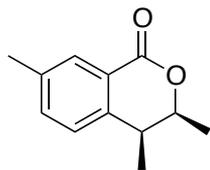




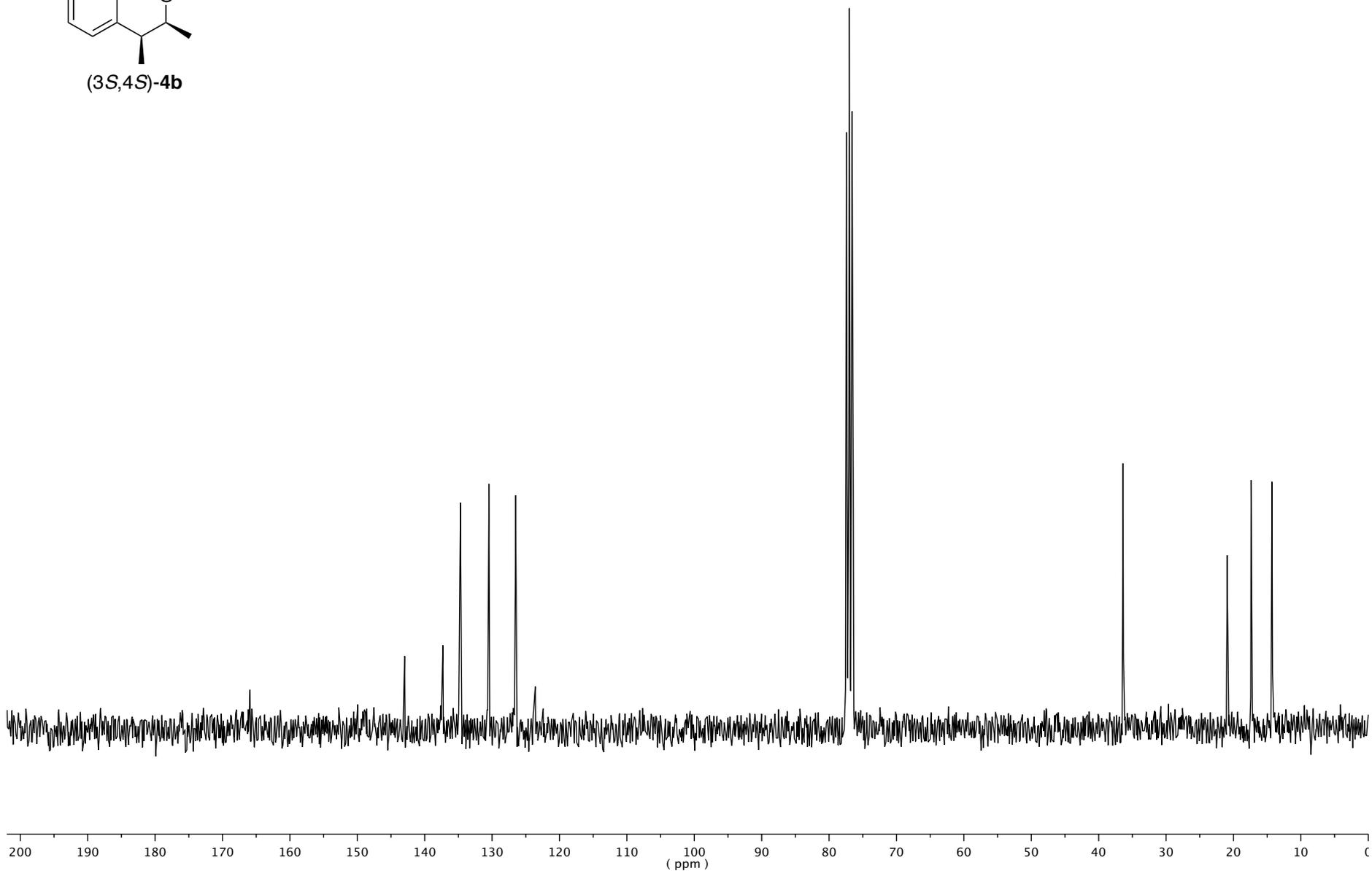


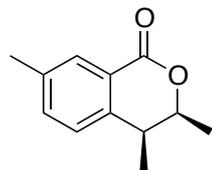
**(3S,4S)-4b**



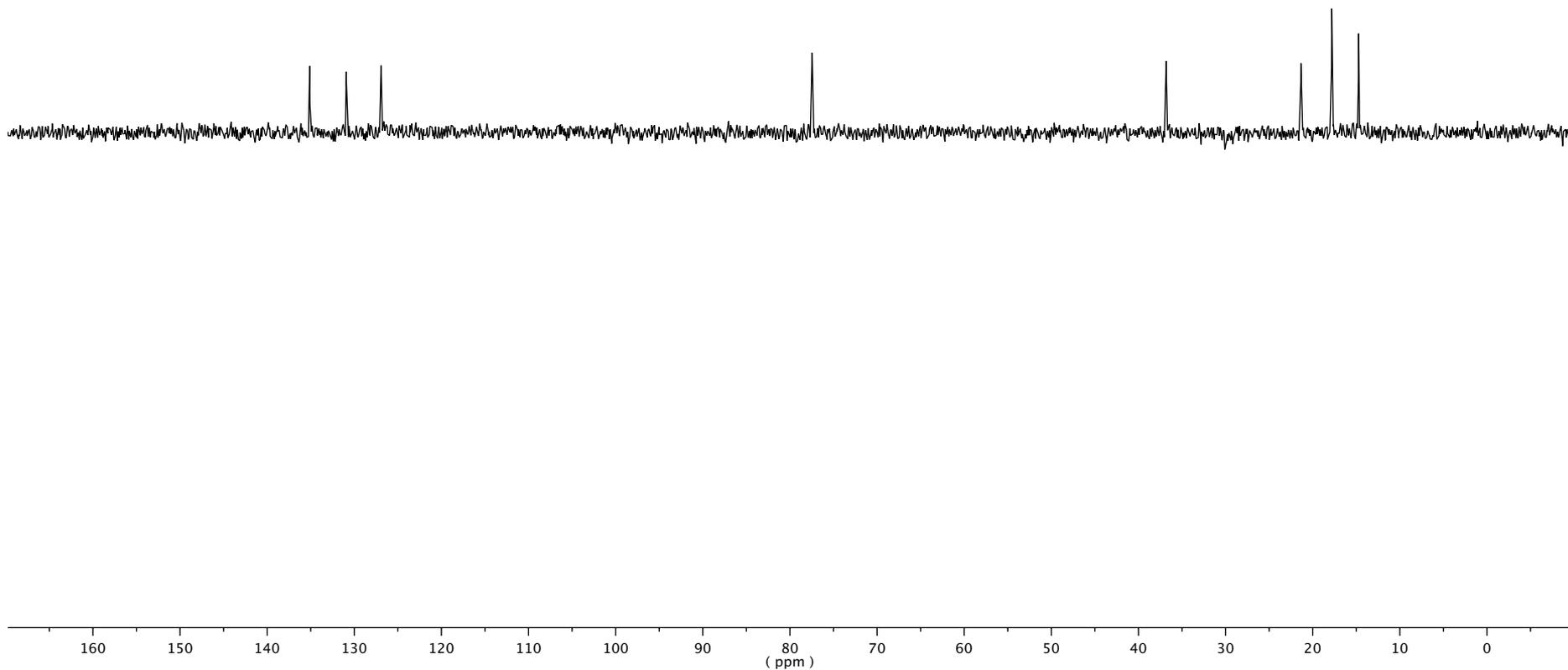


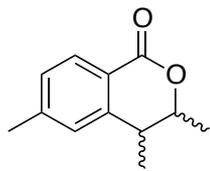
**(3S,4S)-4b**



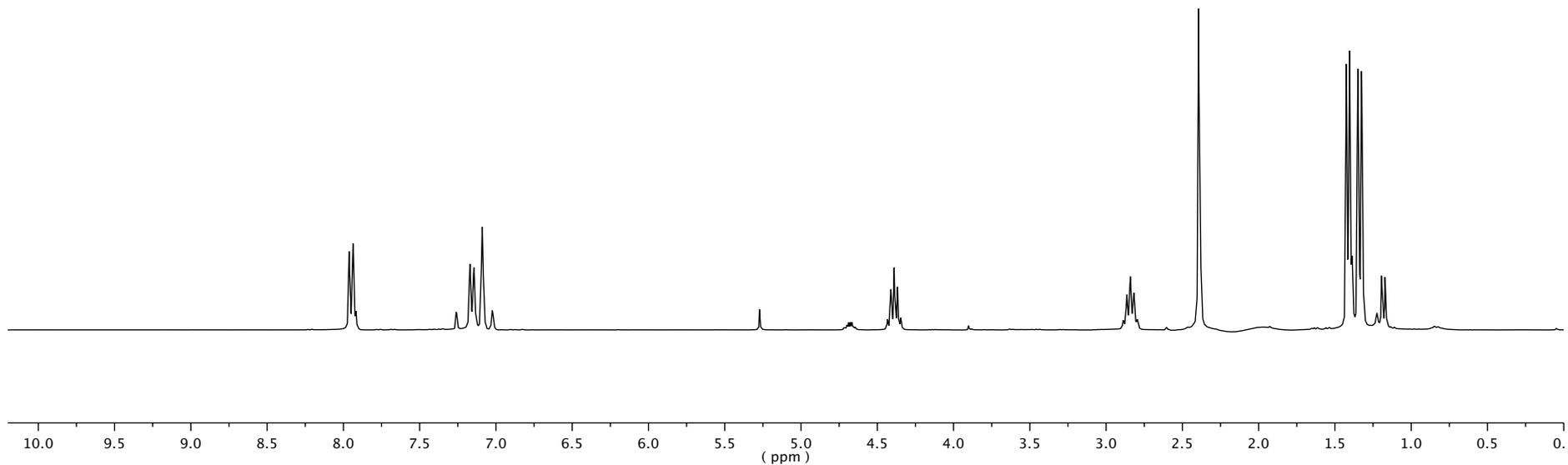


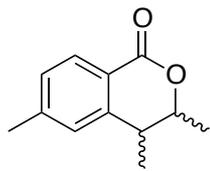
**(3S,4S)-4b**



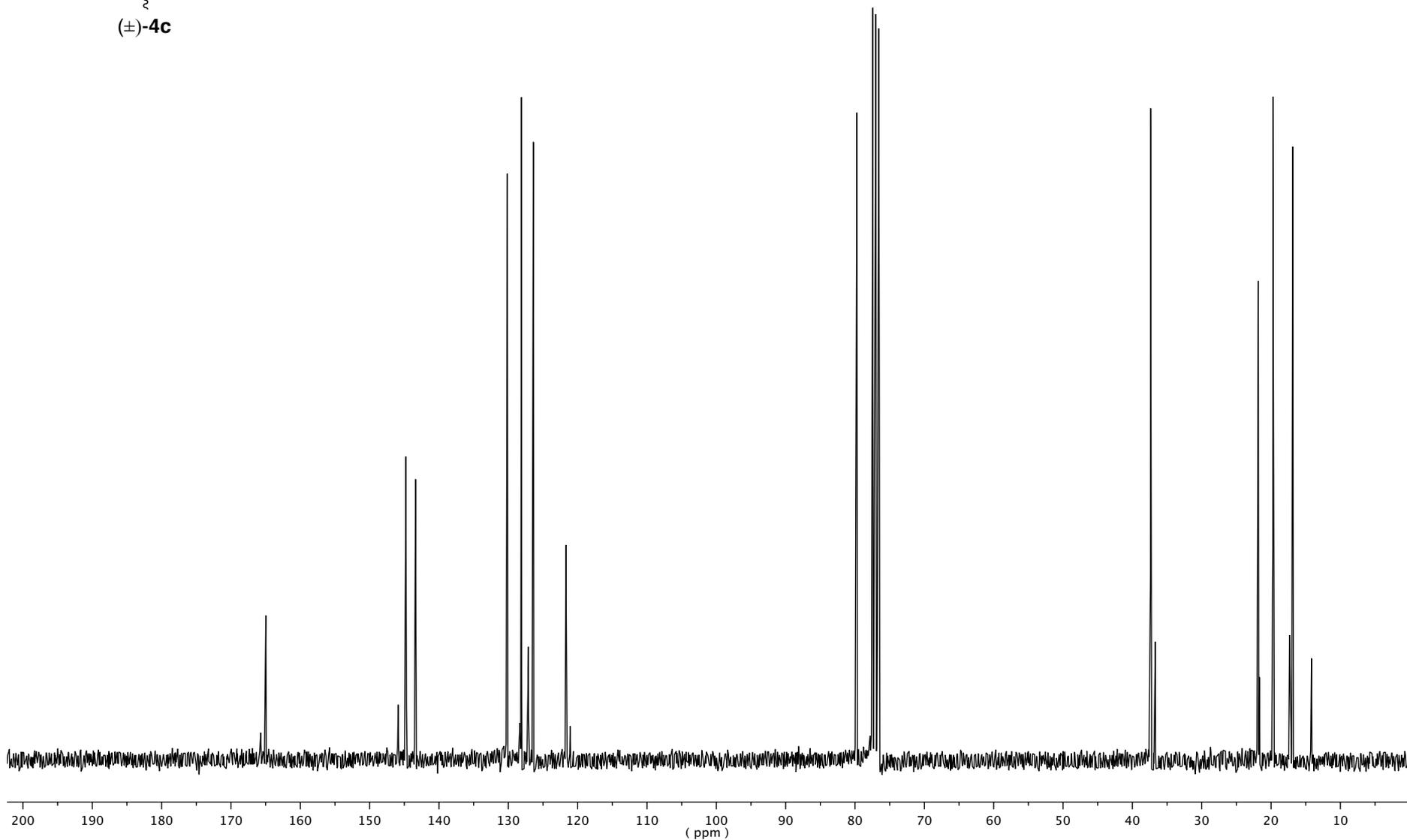


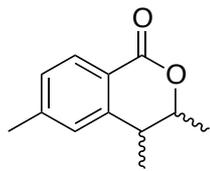
$(\pm)$ -4c



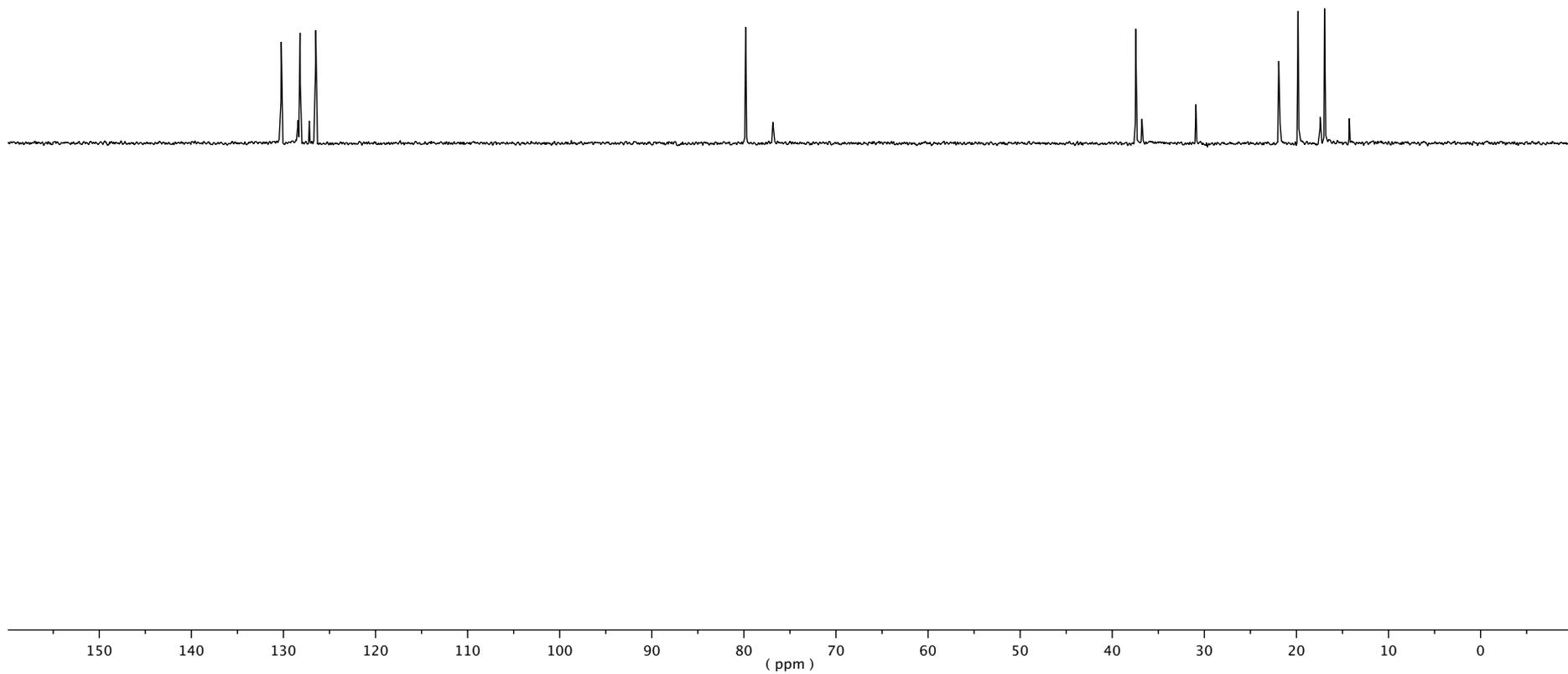


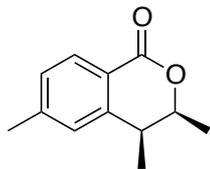
(±)-4c



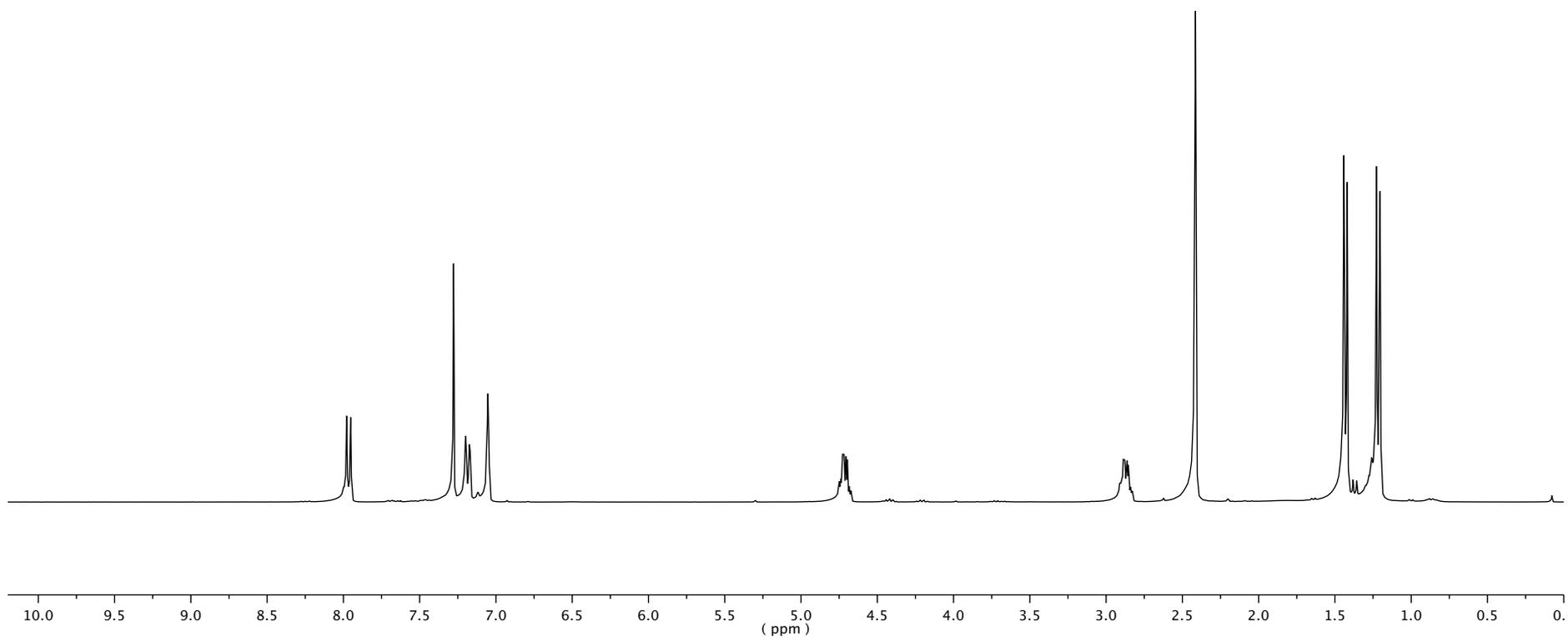


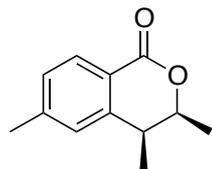
(±)-**4c**



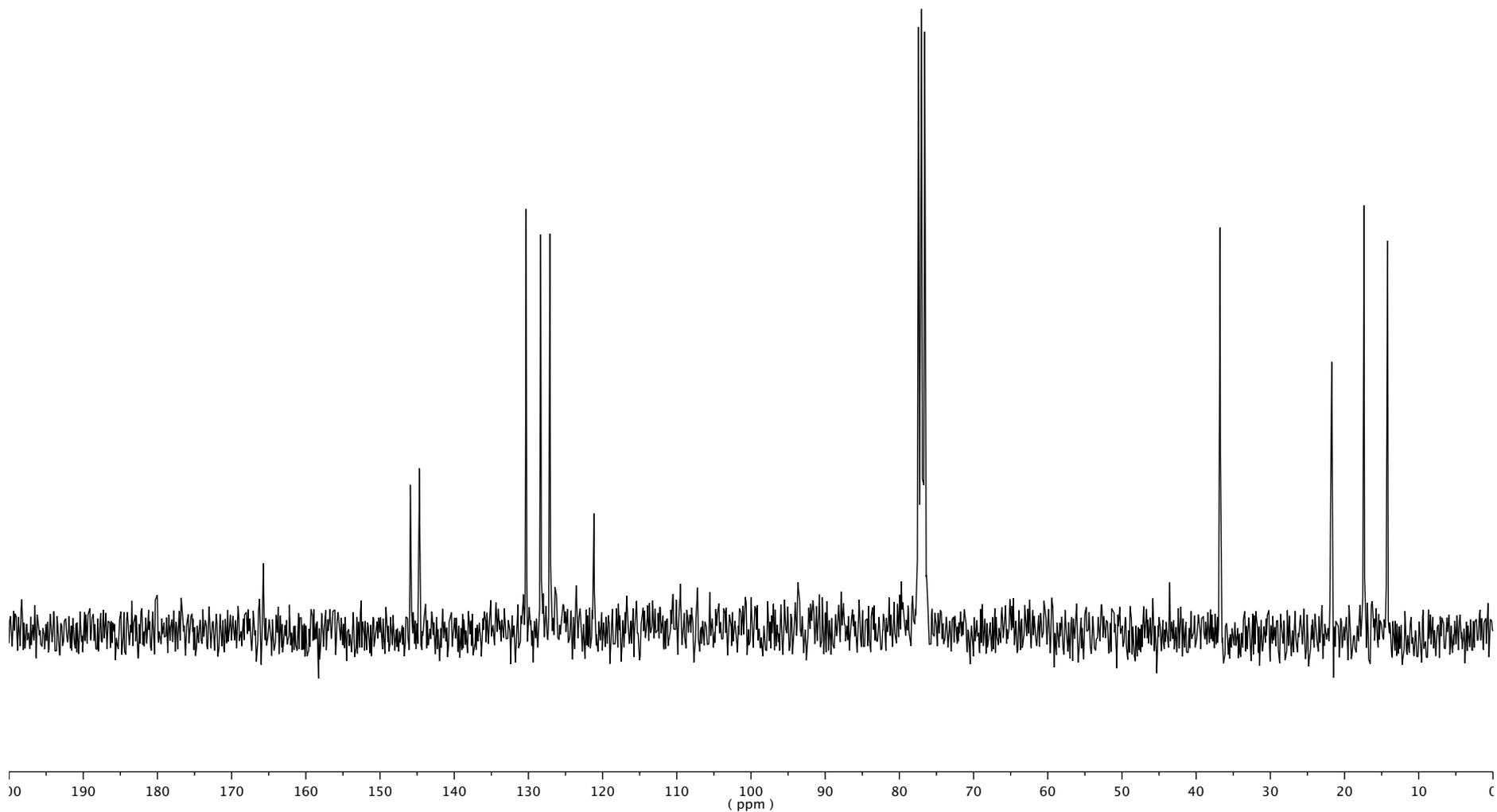


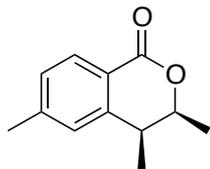
(3S,4S)-4c



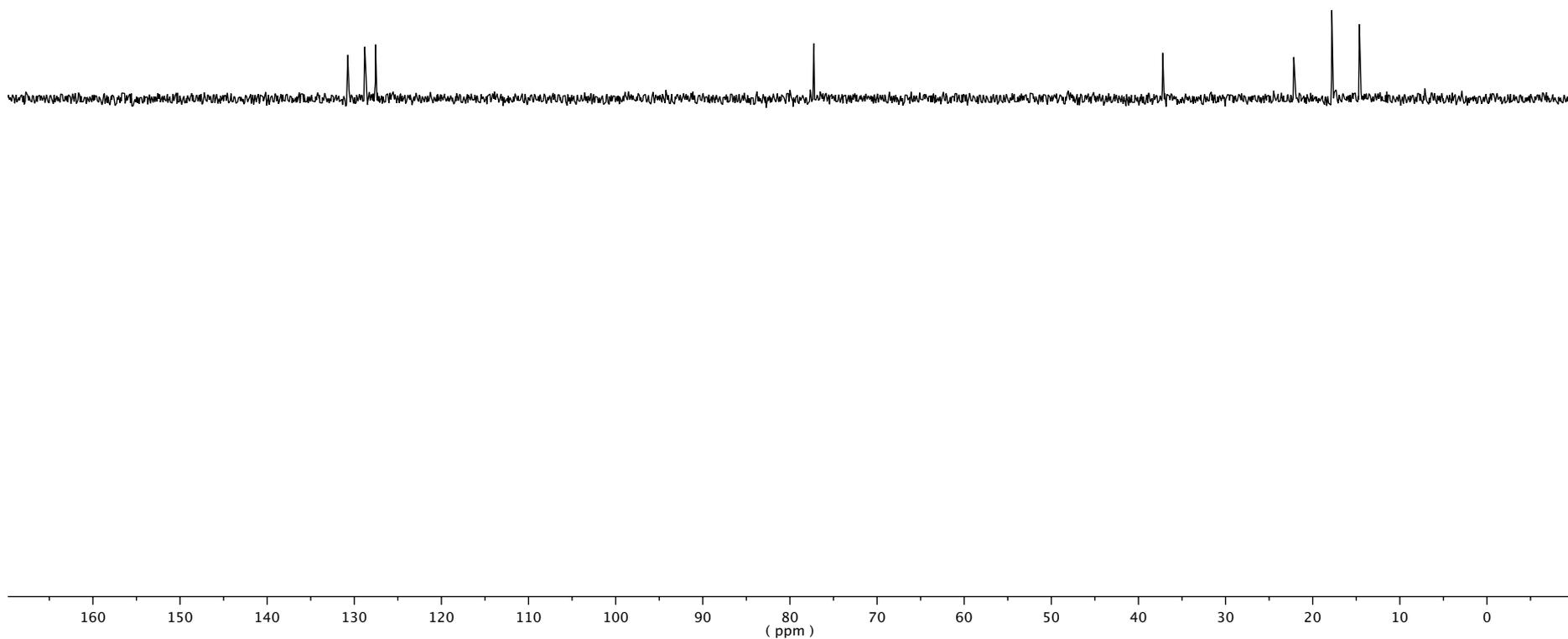


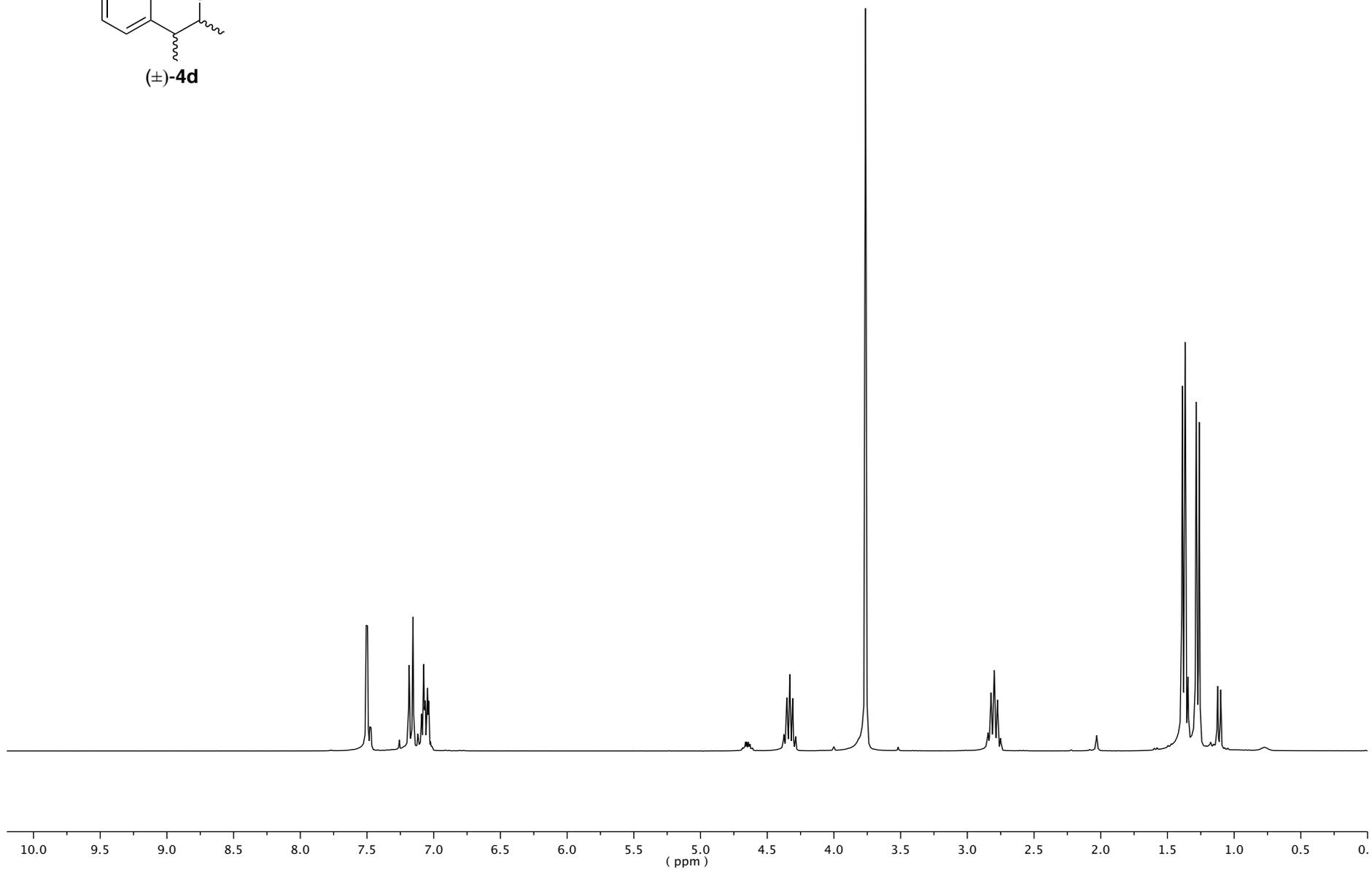
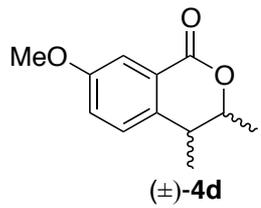
(3*S*,4*S*)-4c

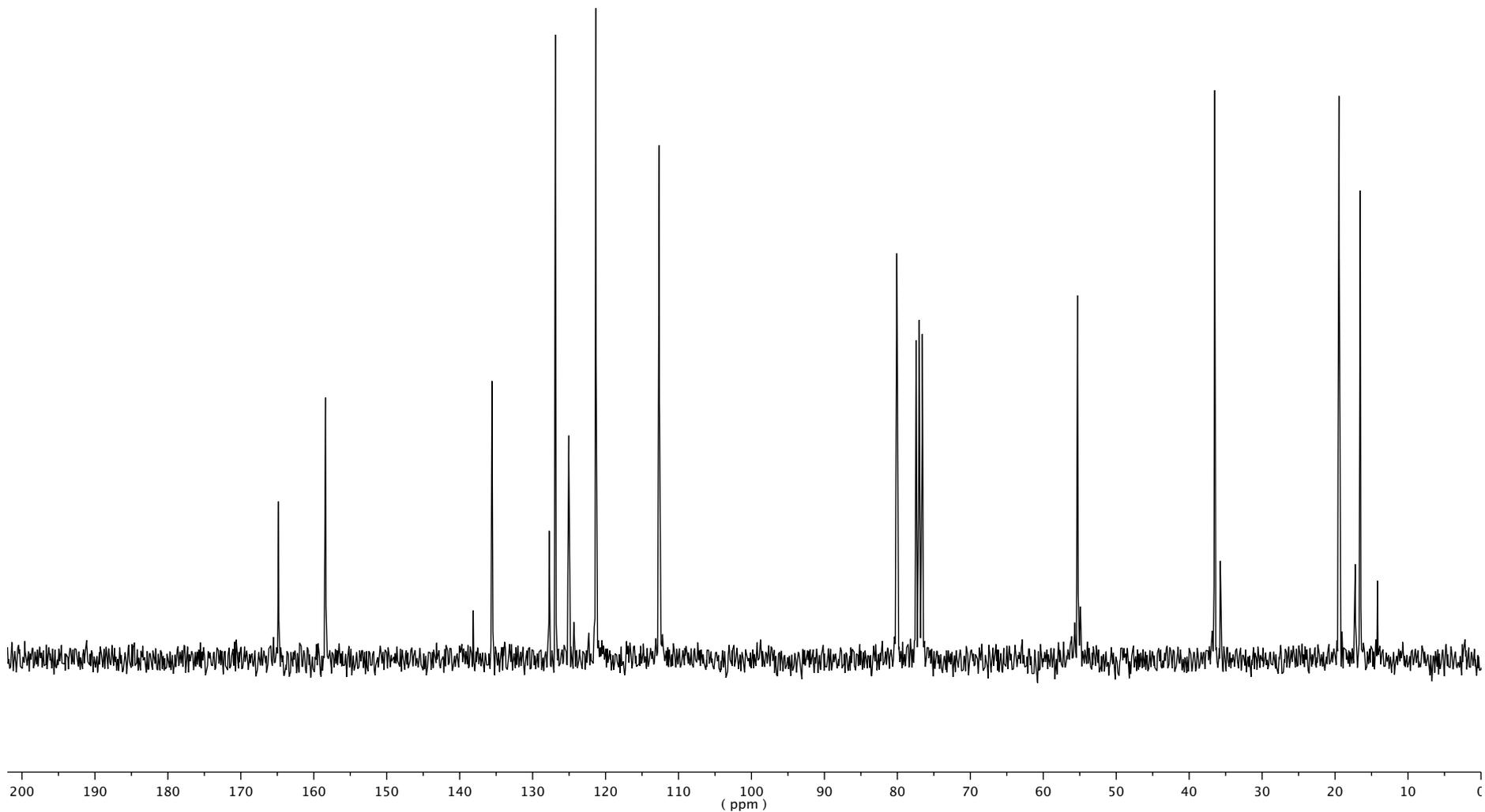
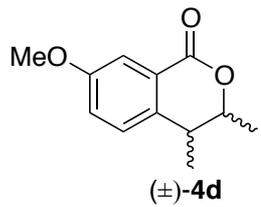


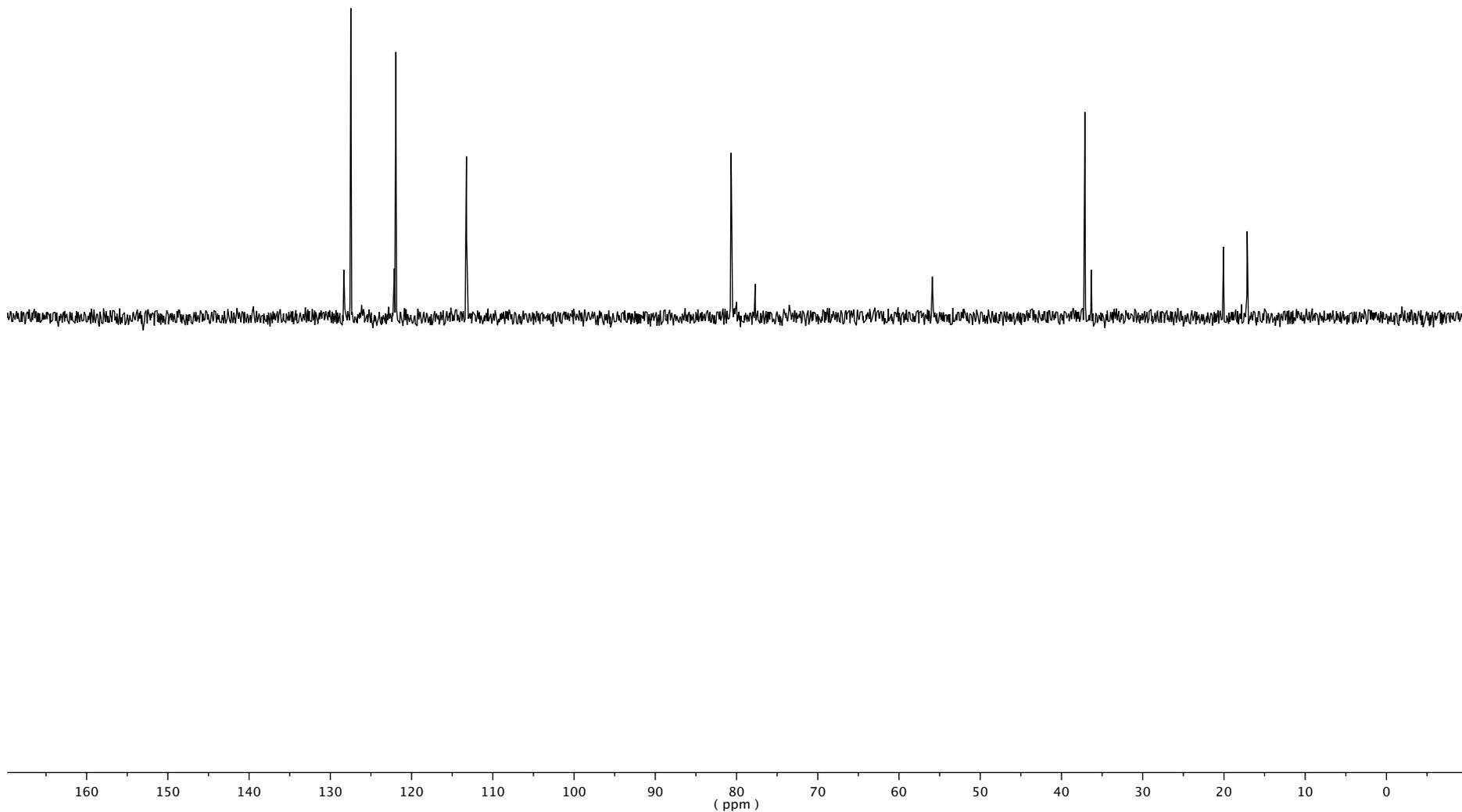
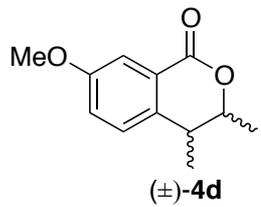


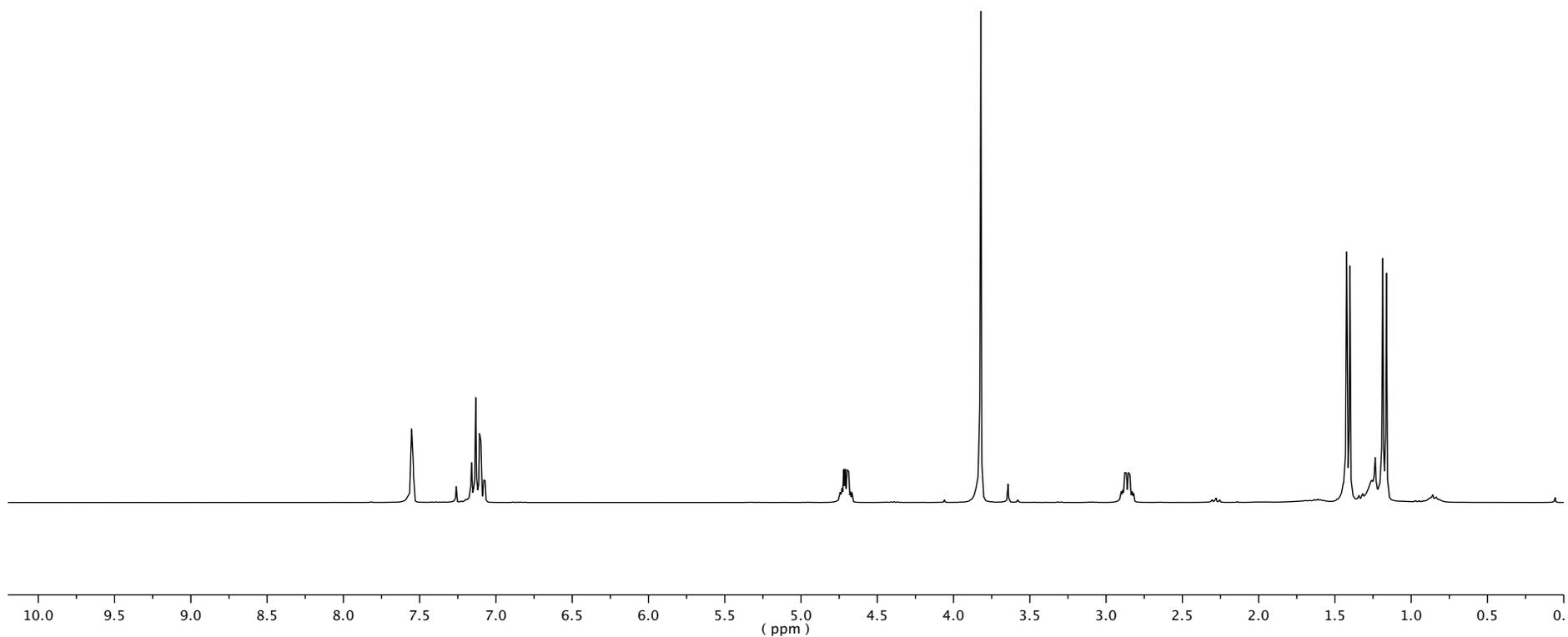
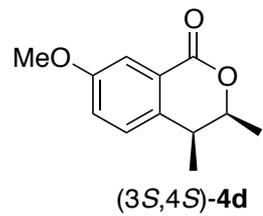
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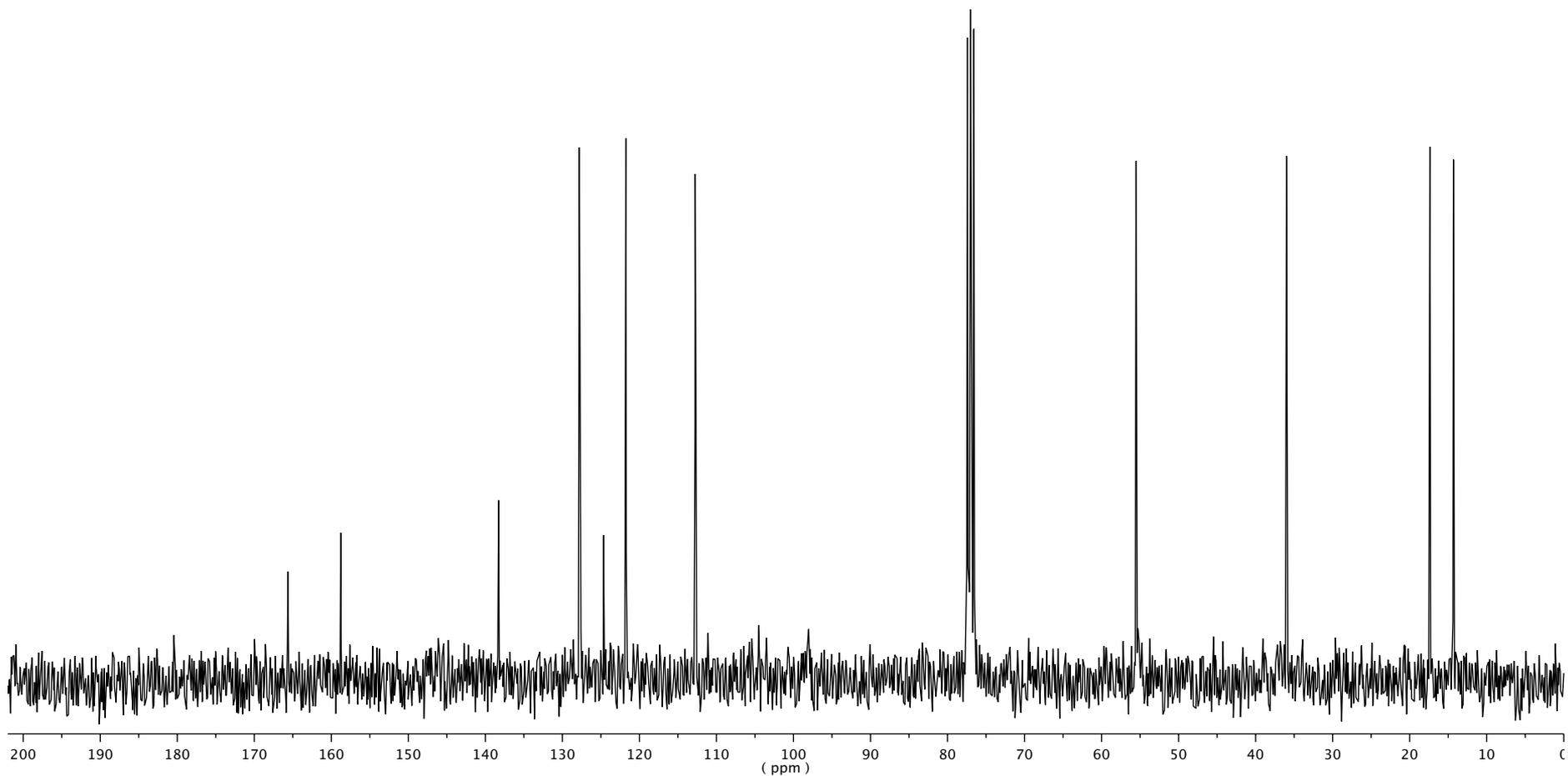
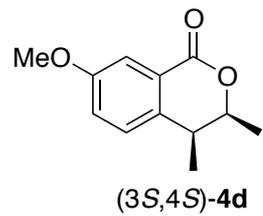


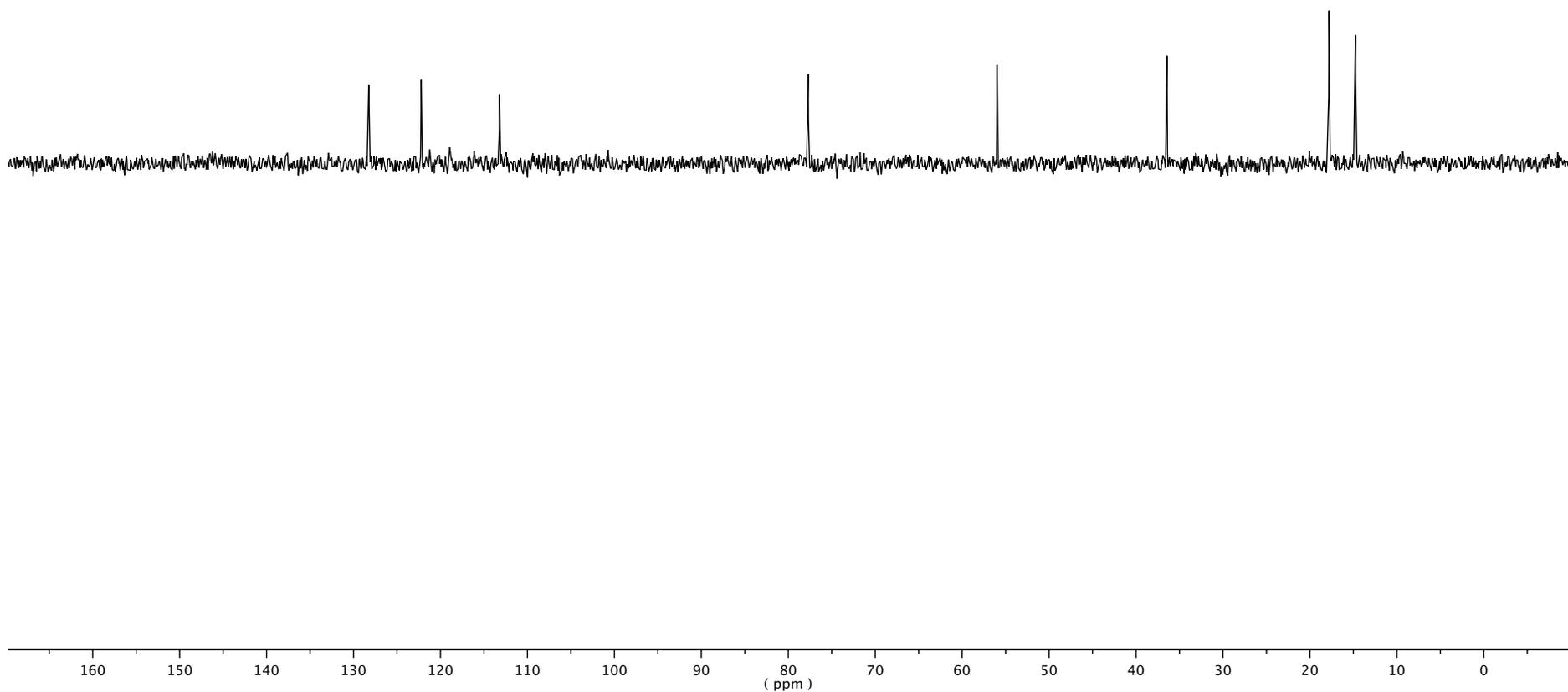
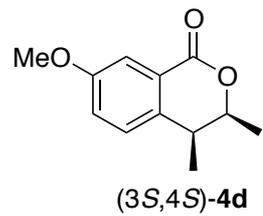


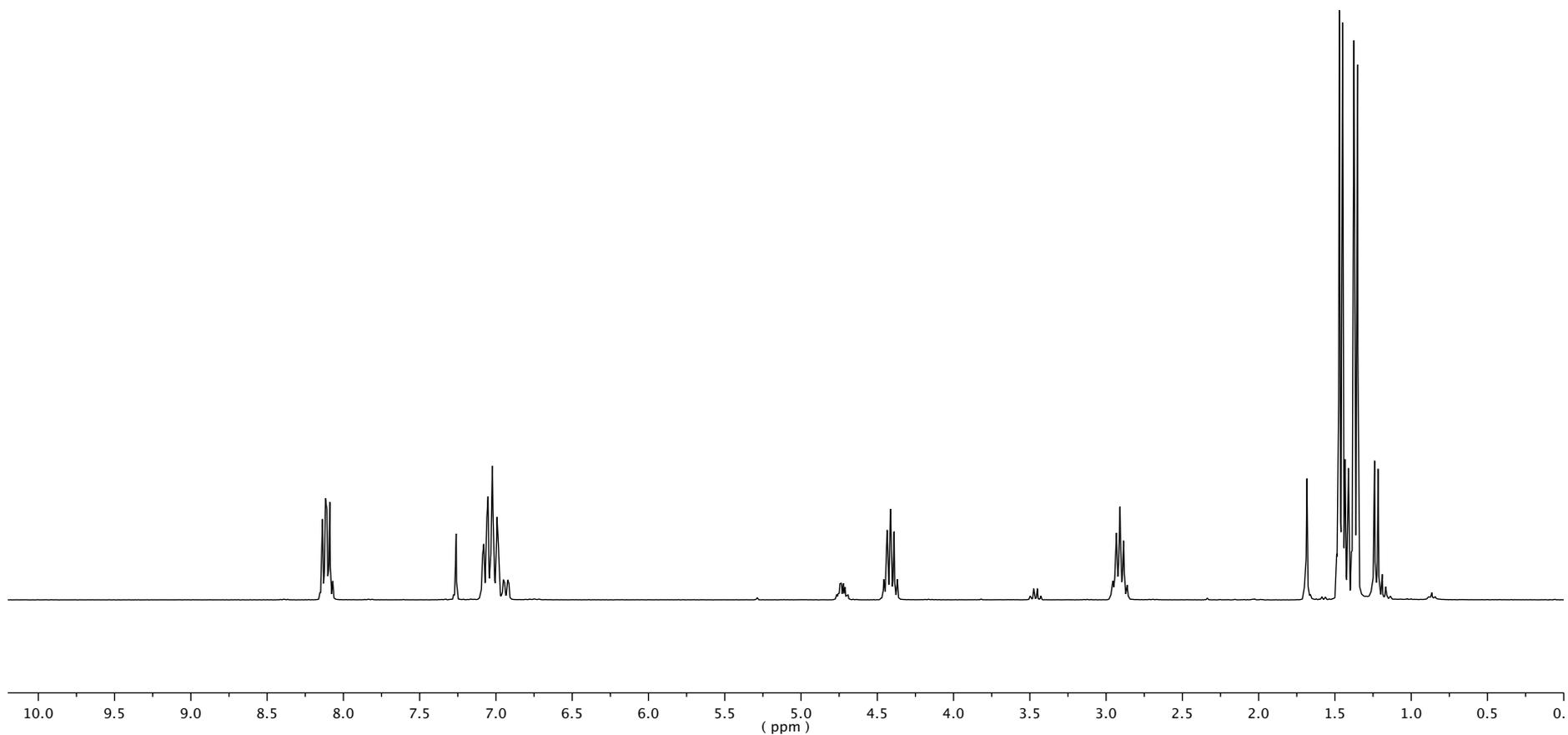
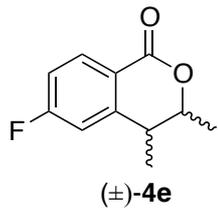


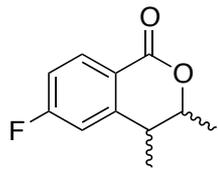




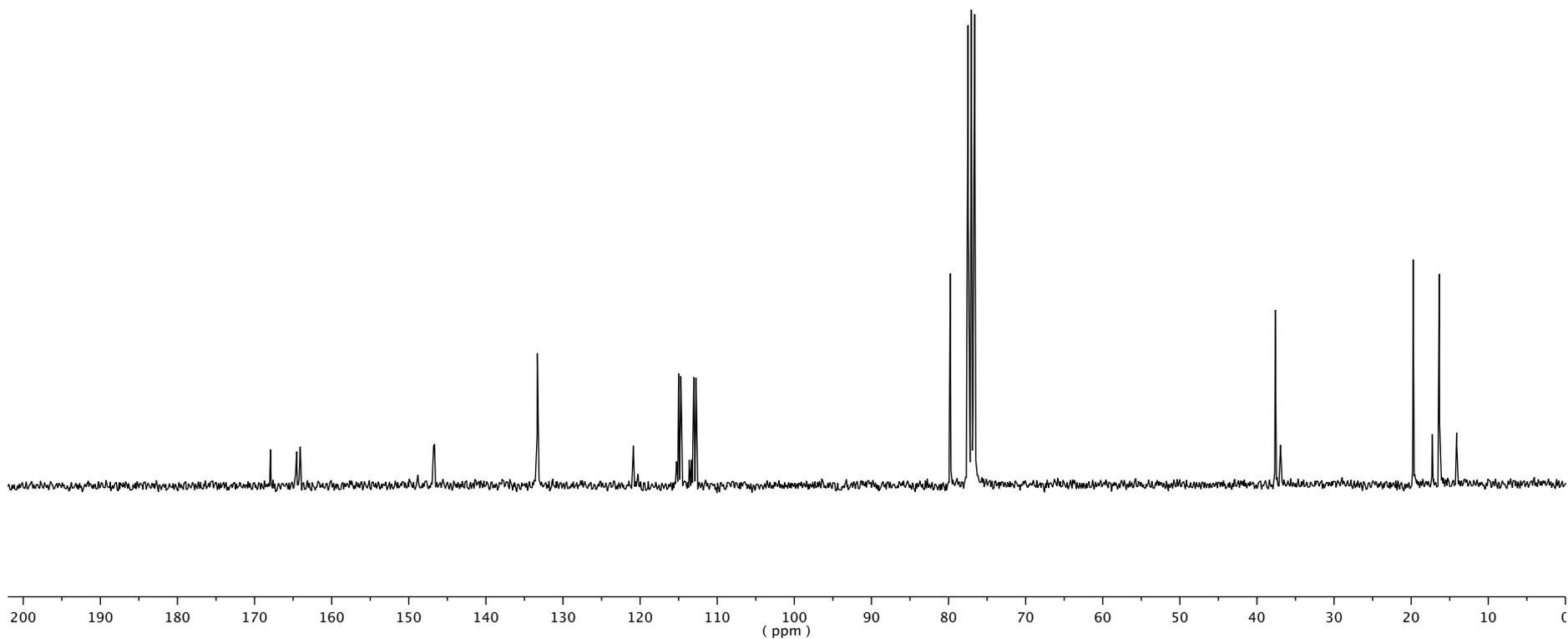


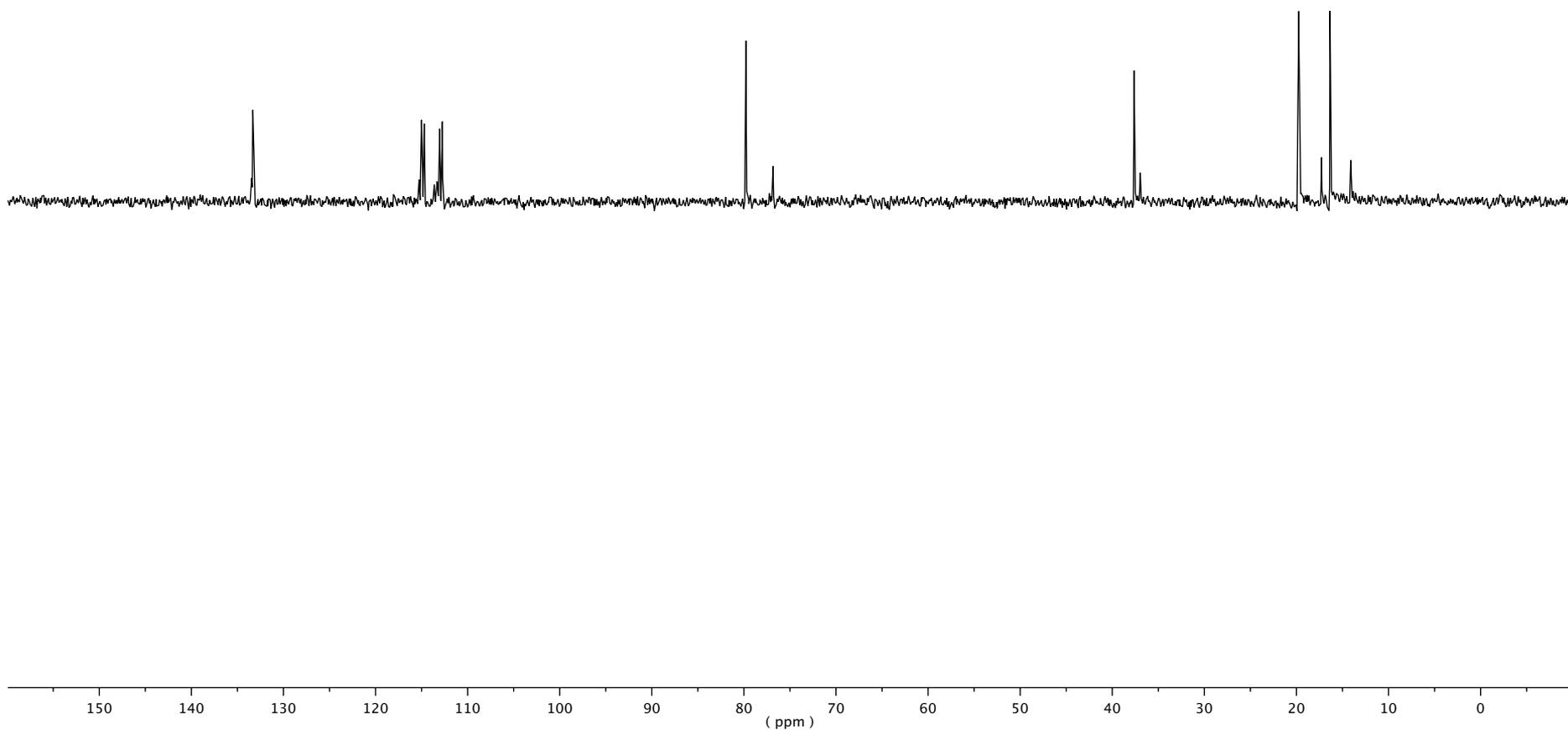
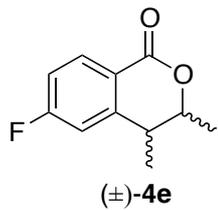


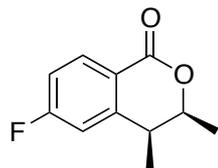




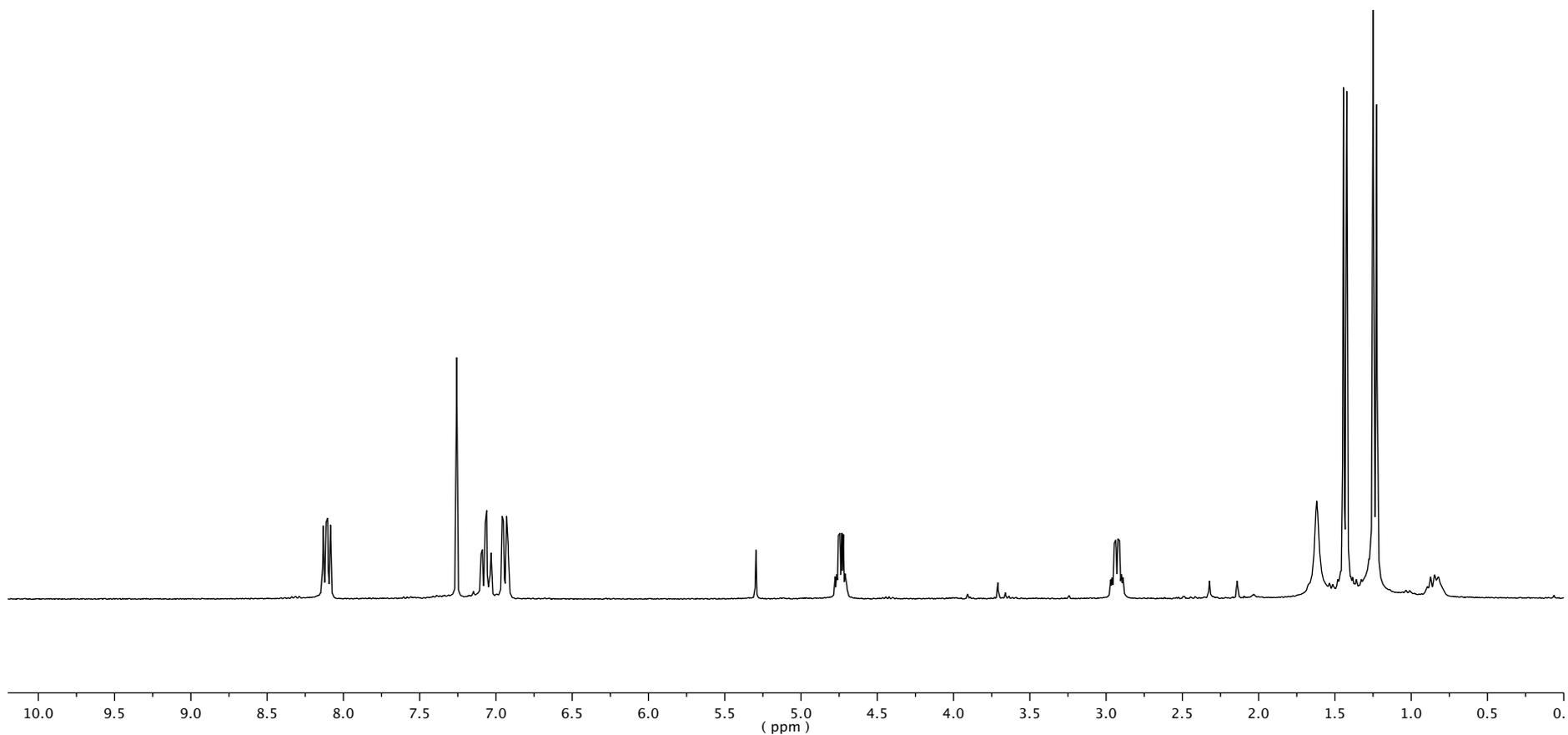
(±)-**4e**

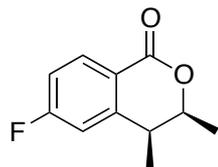




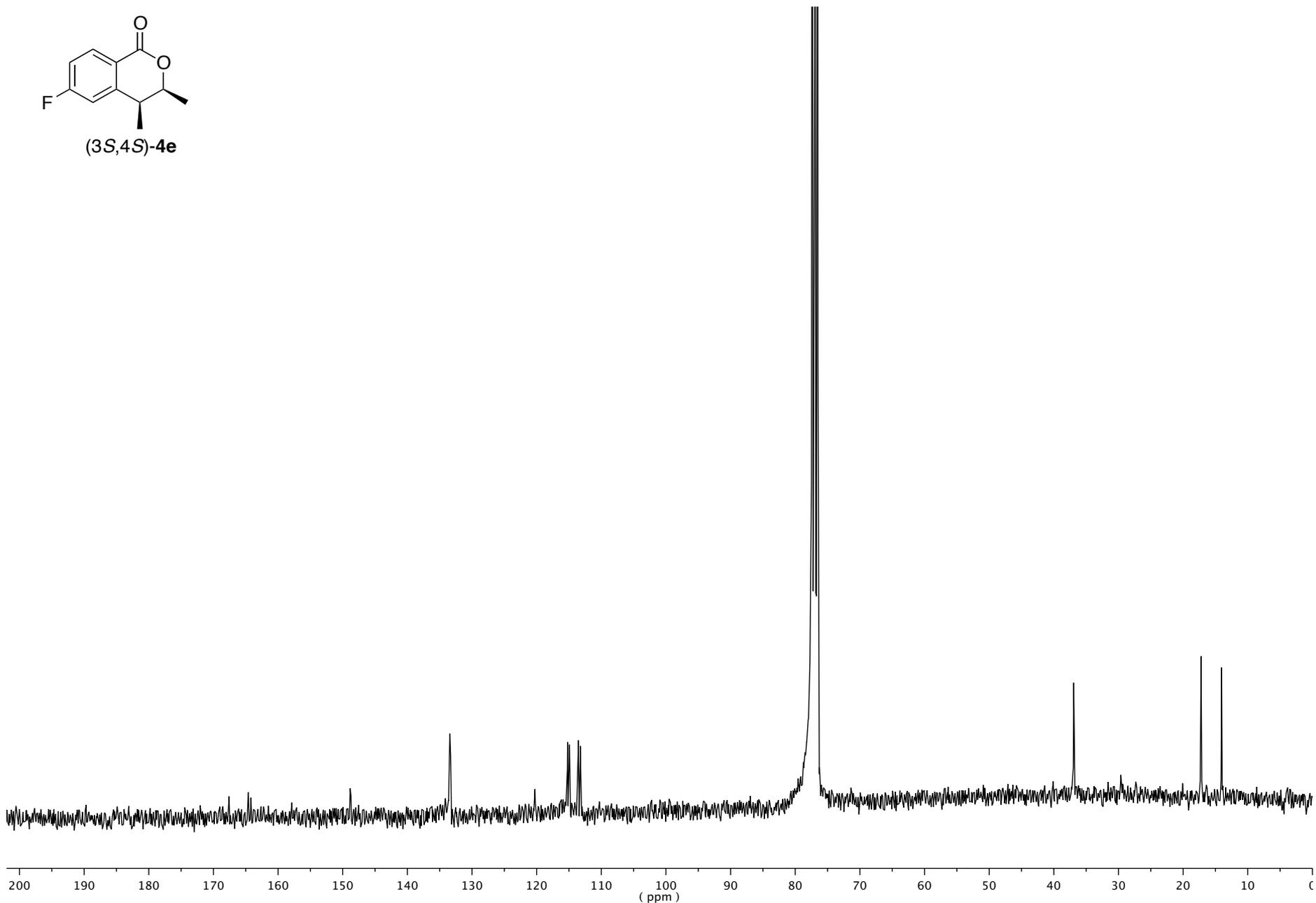


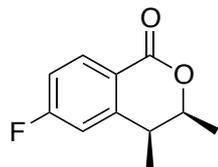
(3*S*,4*S*)-4e



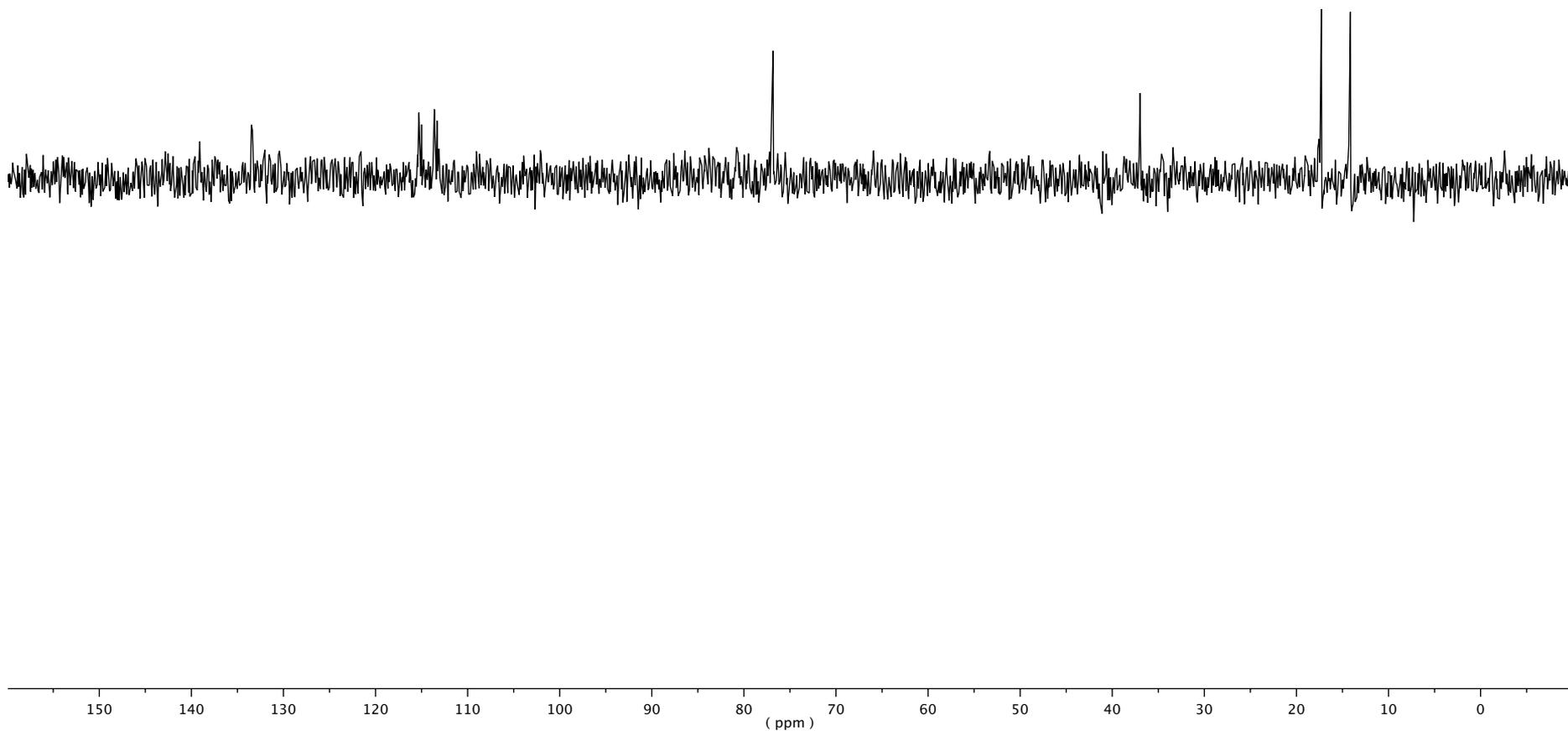


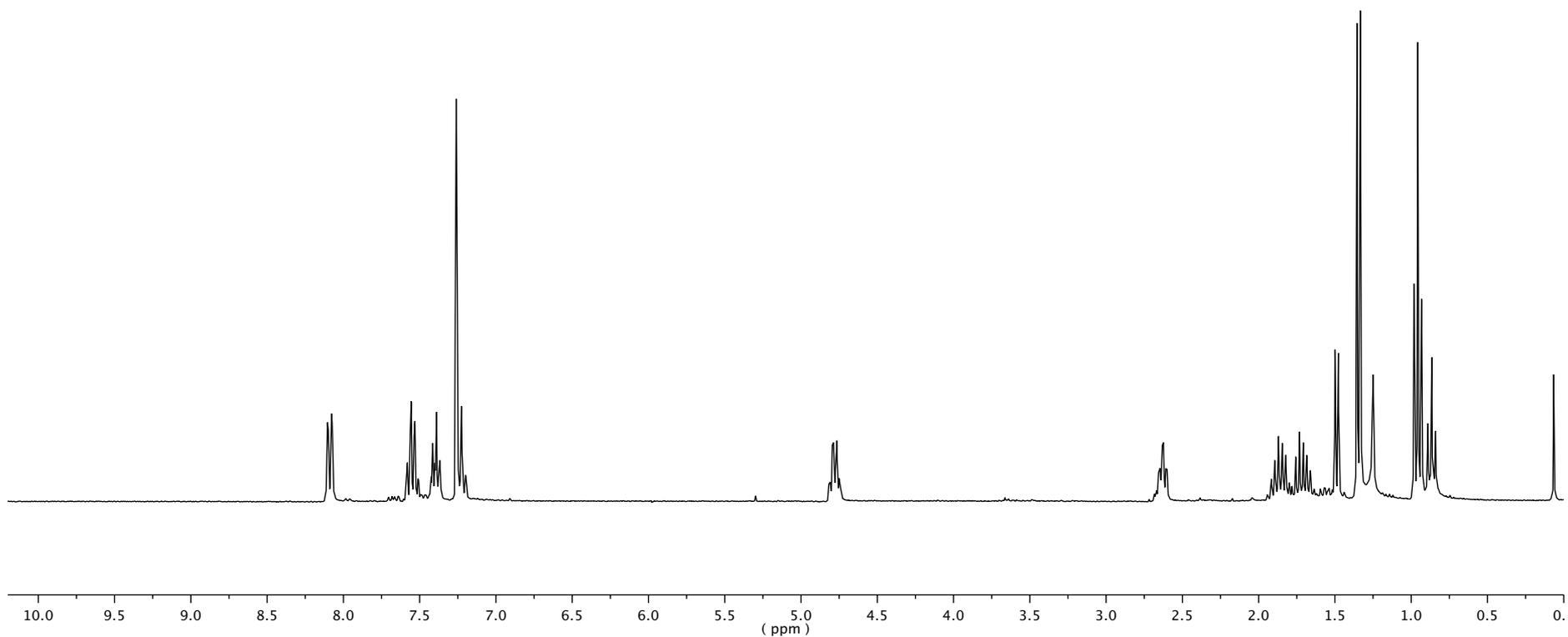
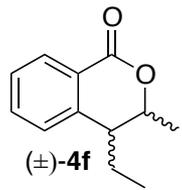
(3*S*,4*S*)-4e

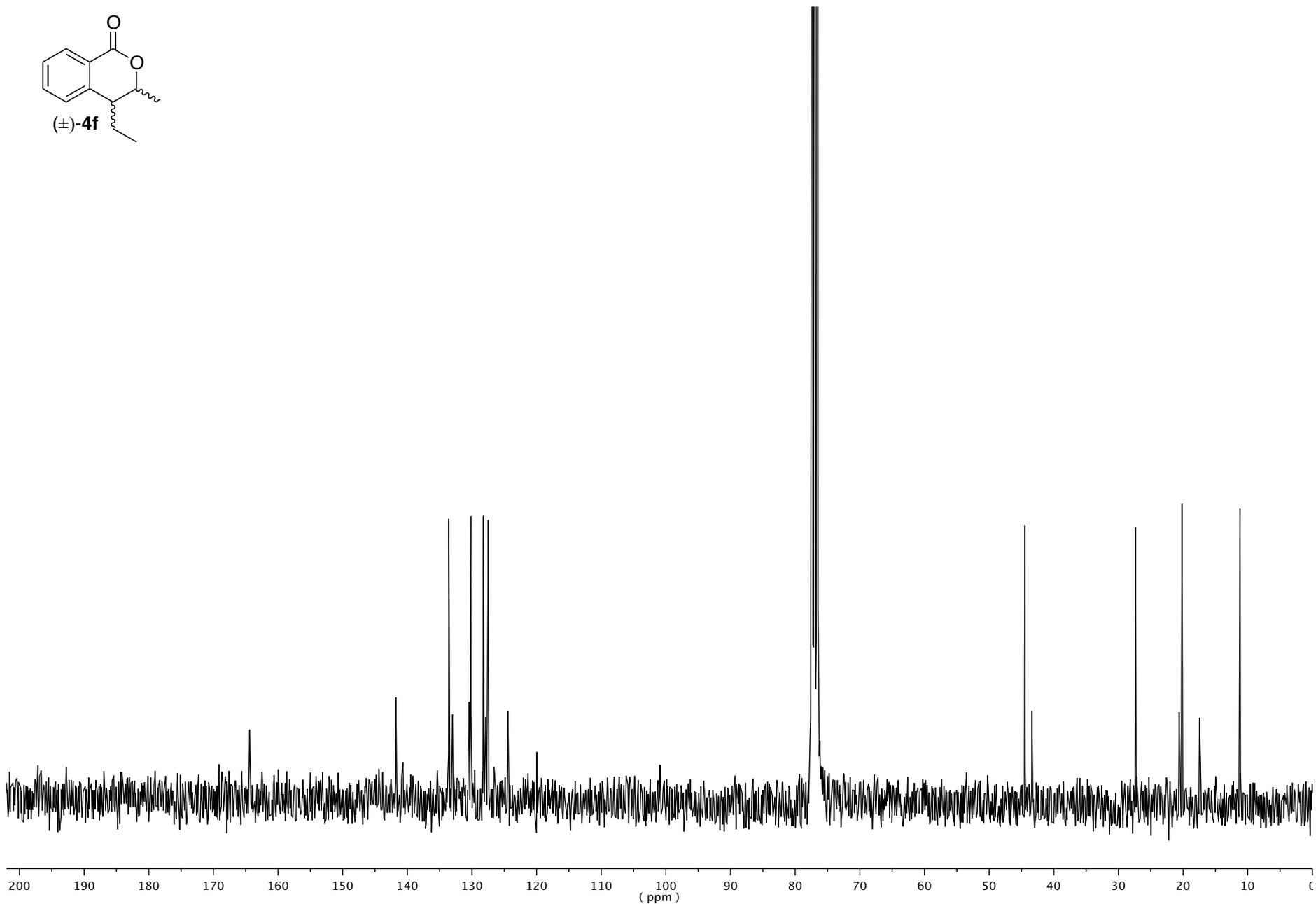
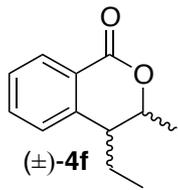


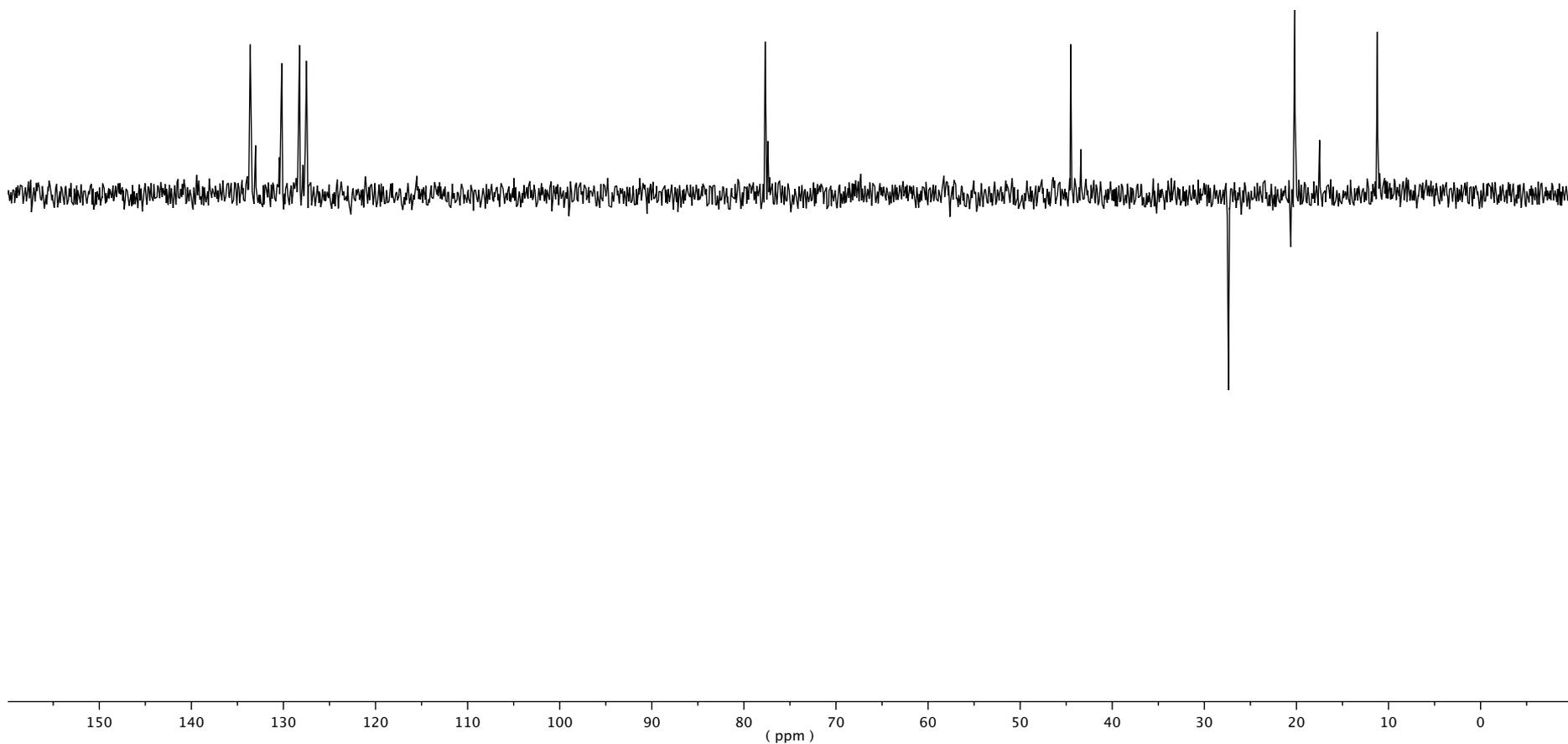
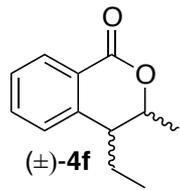


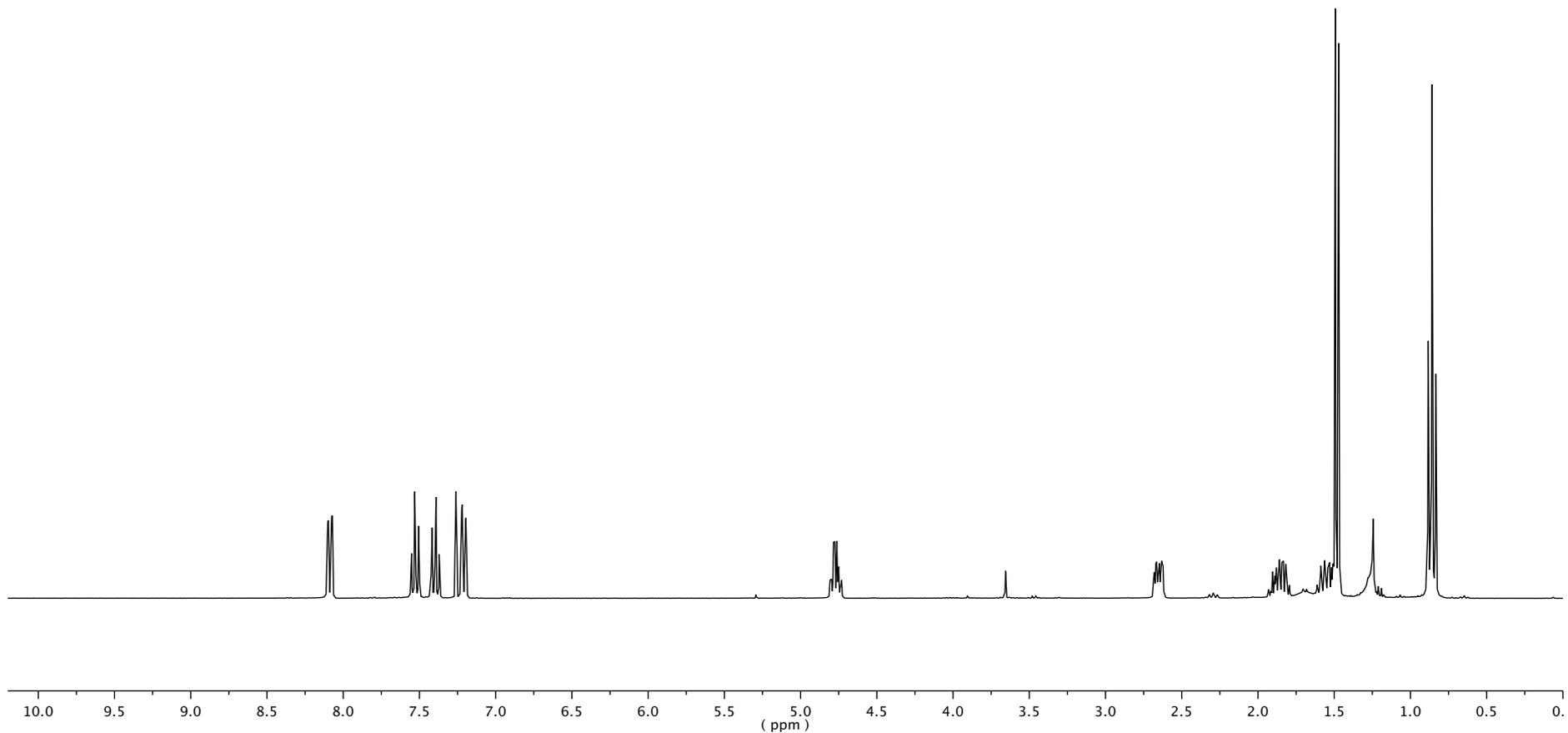
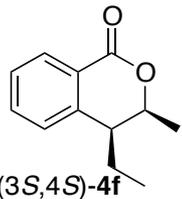
(3*S*,4*S*)-4e

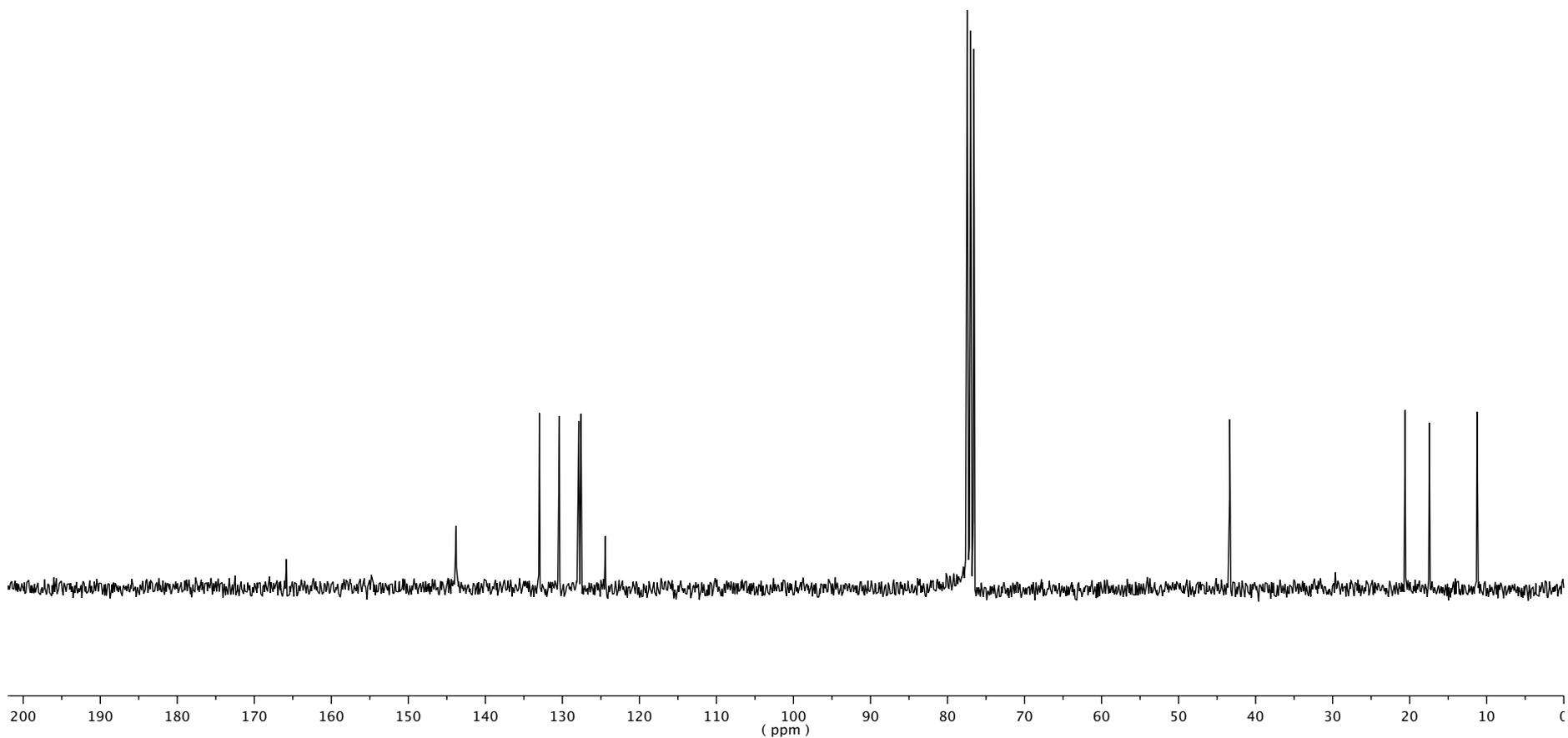
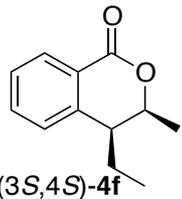


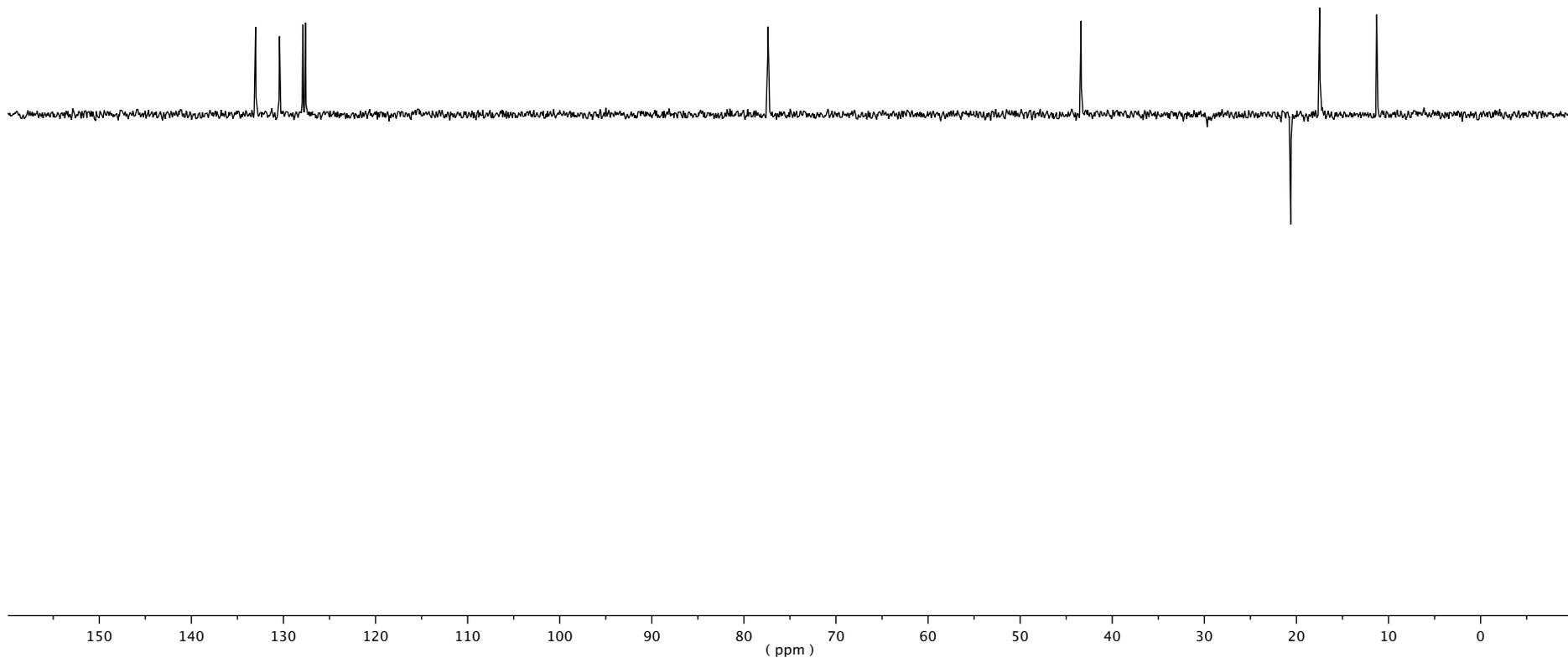
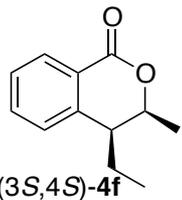


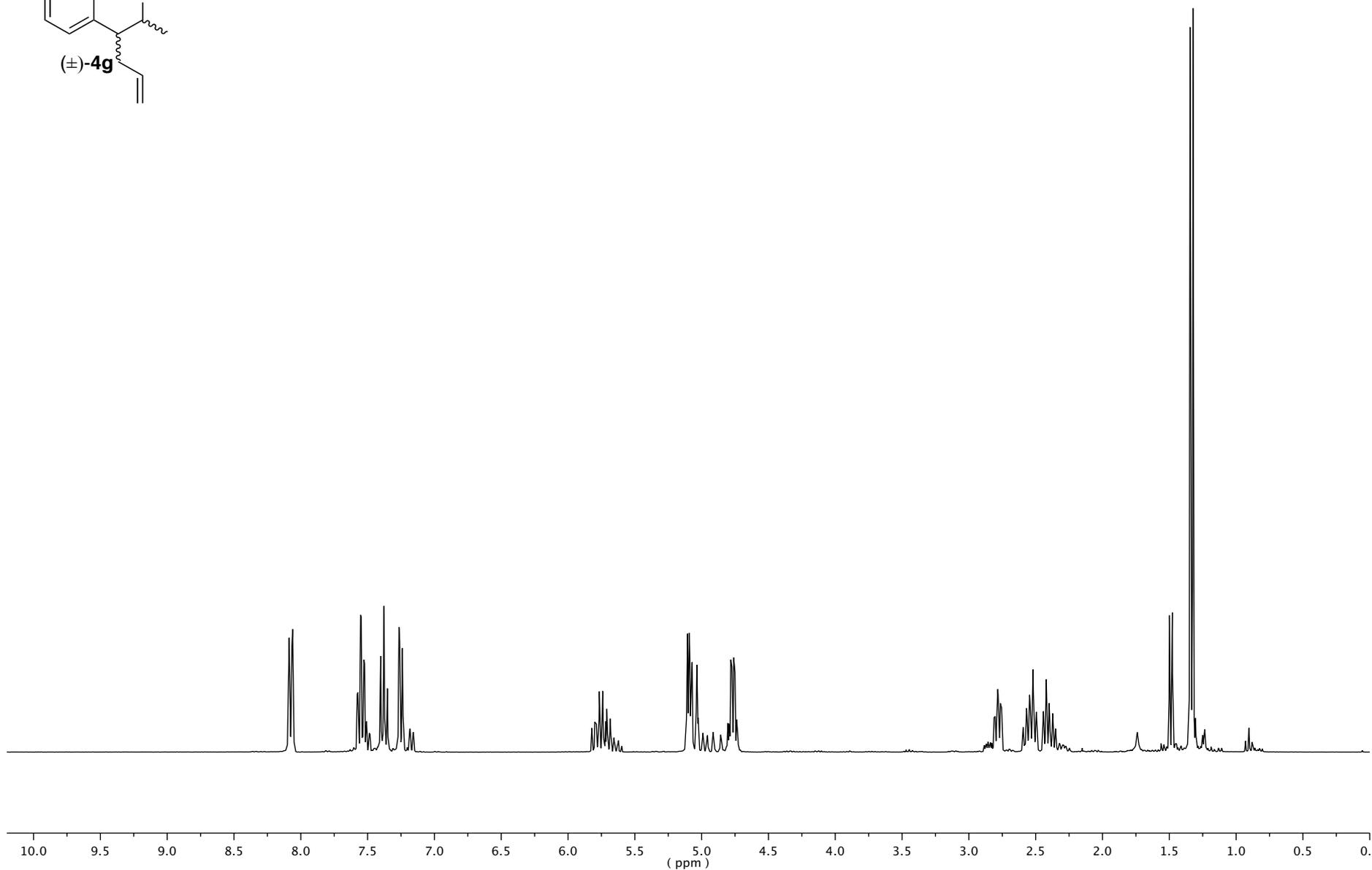
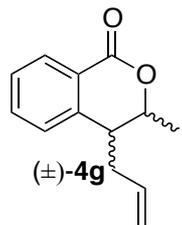


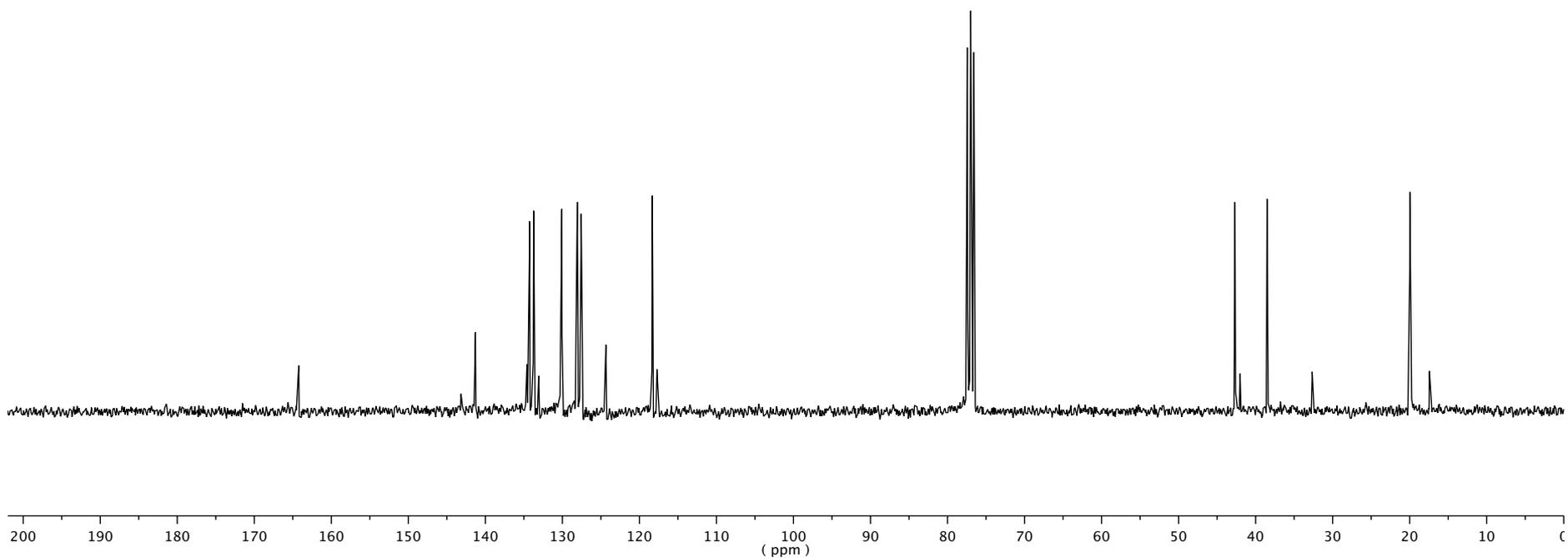
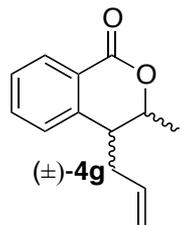


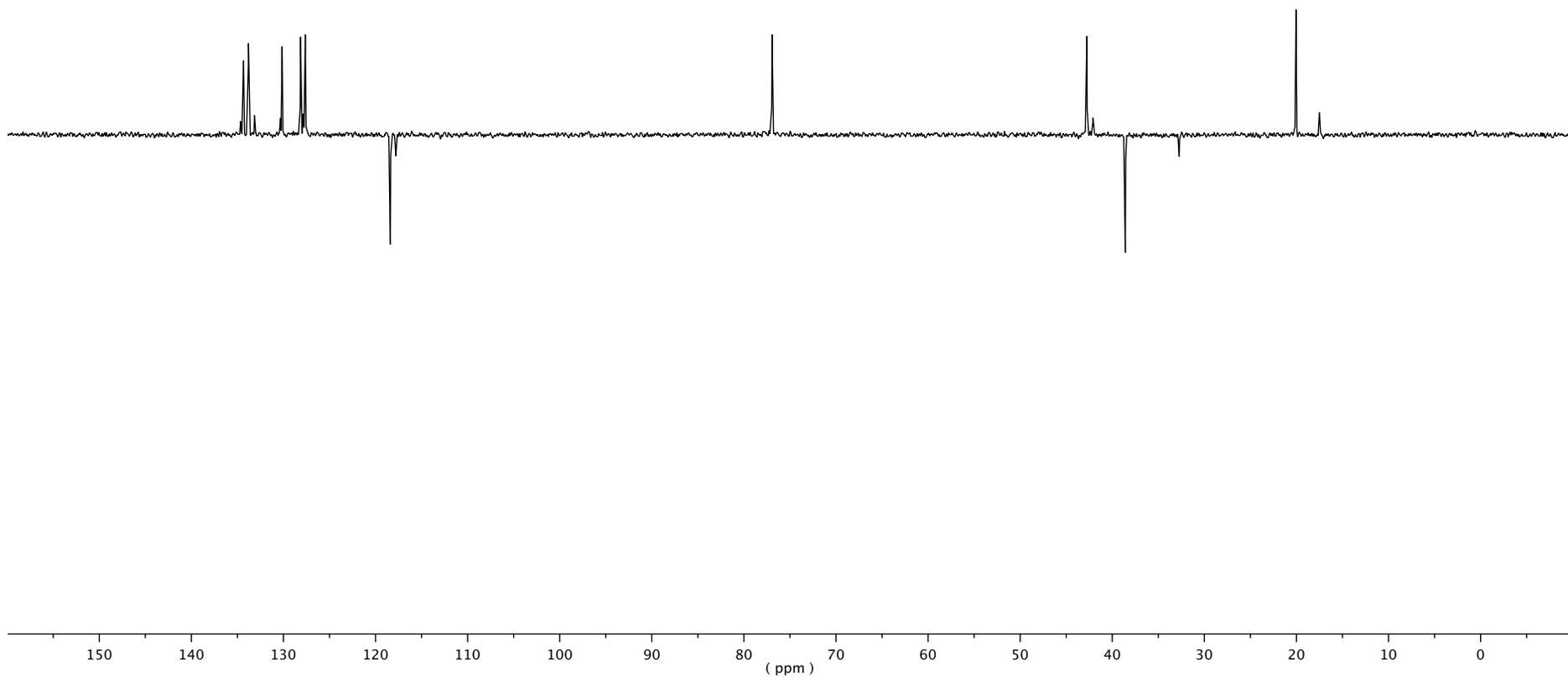
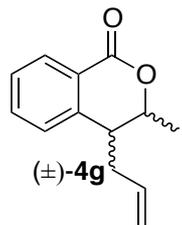




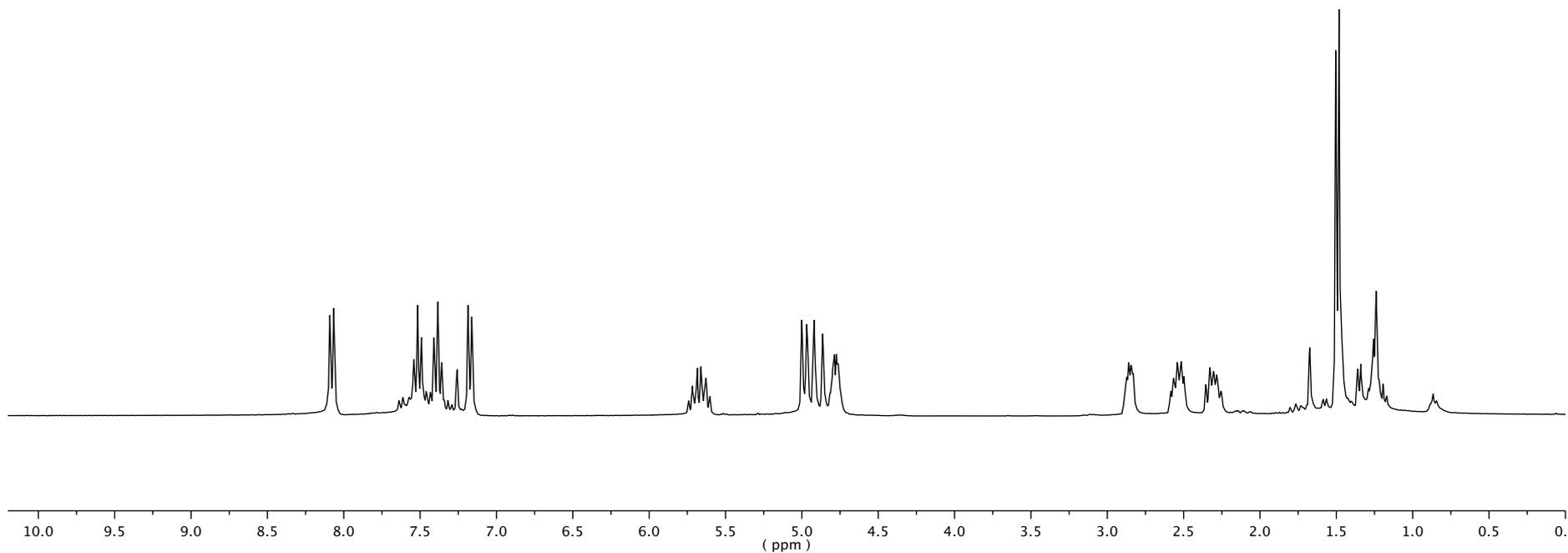
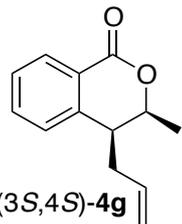


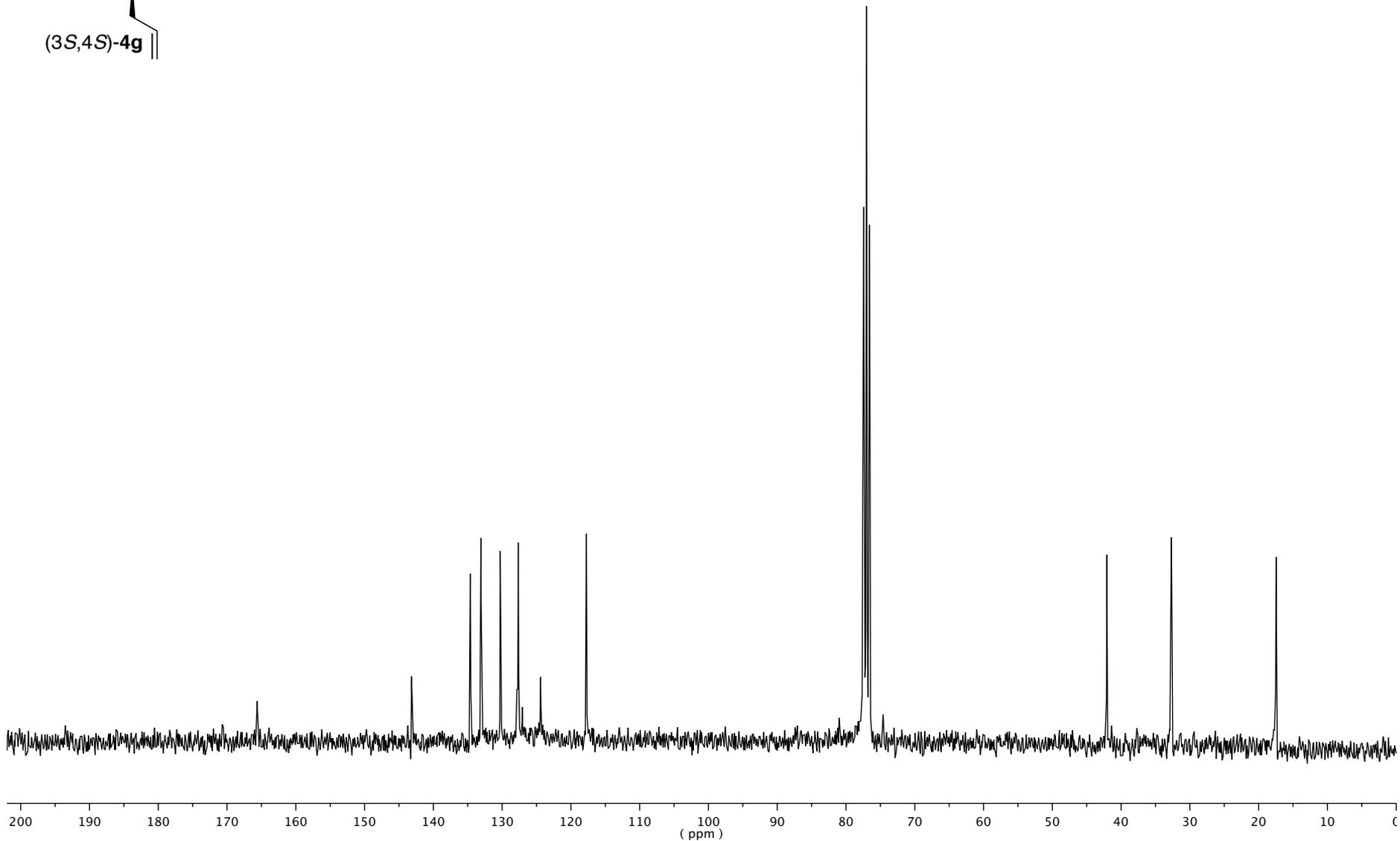
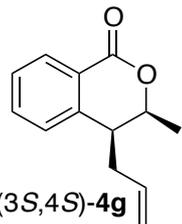


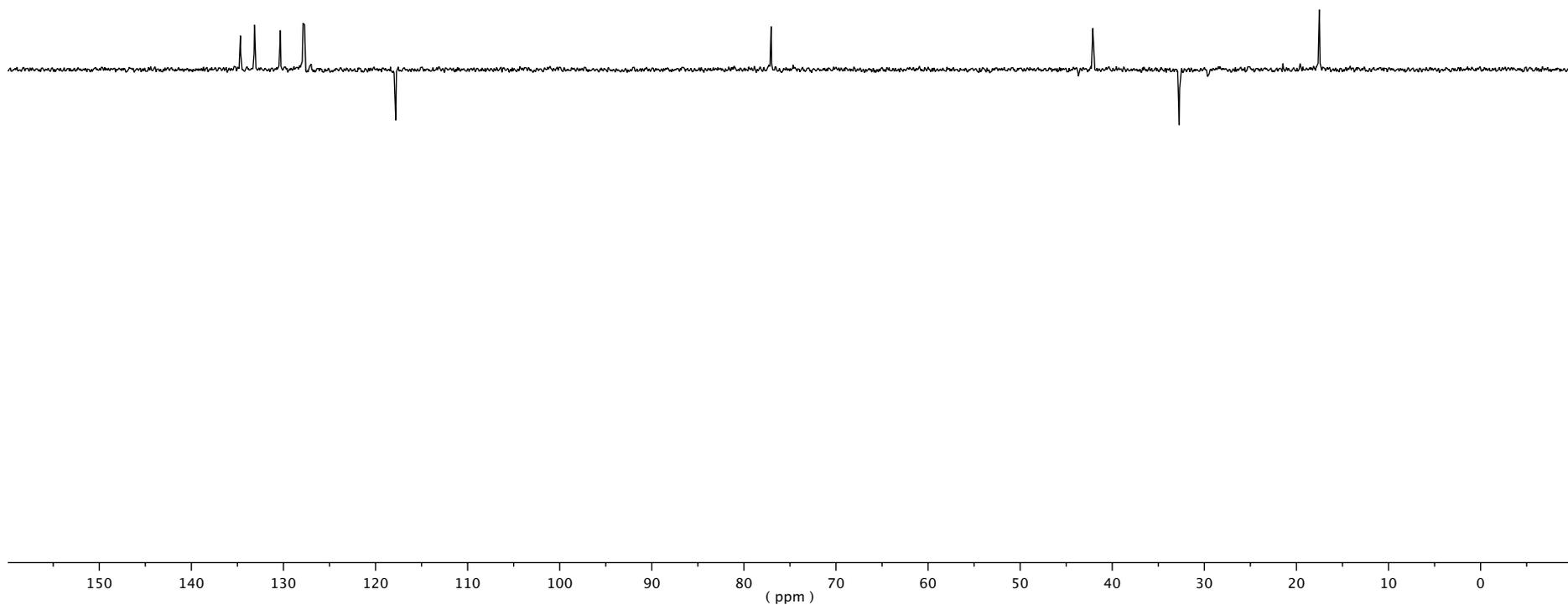
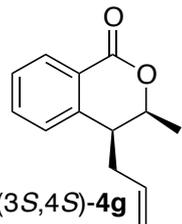


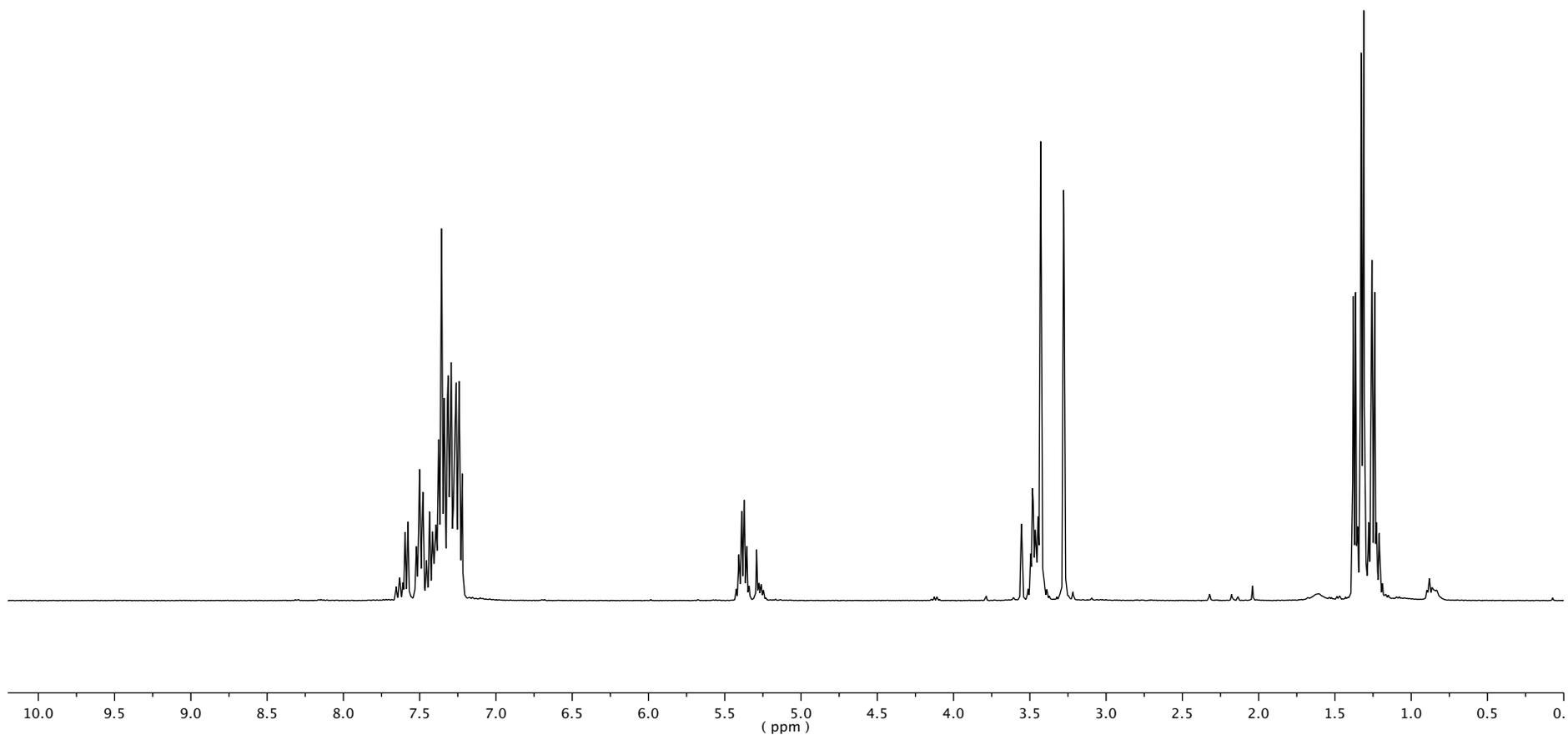
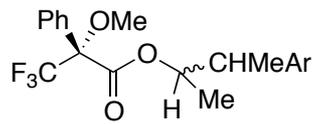


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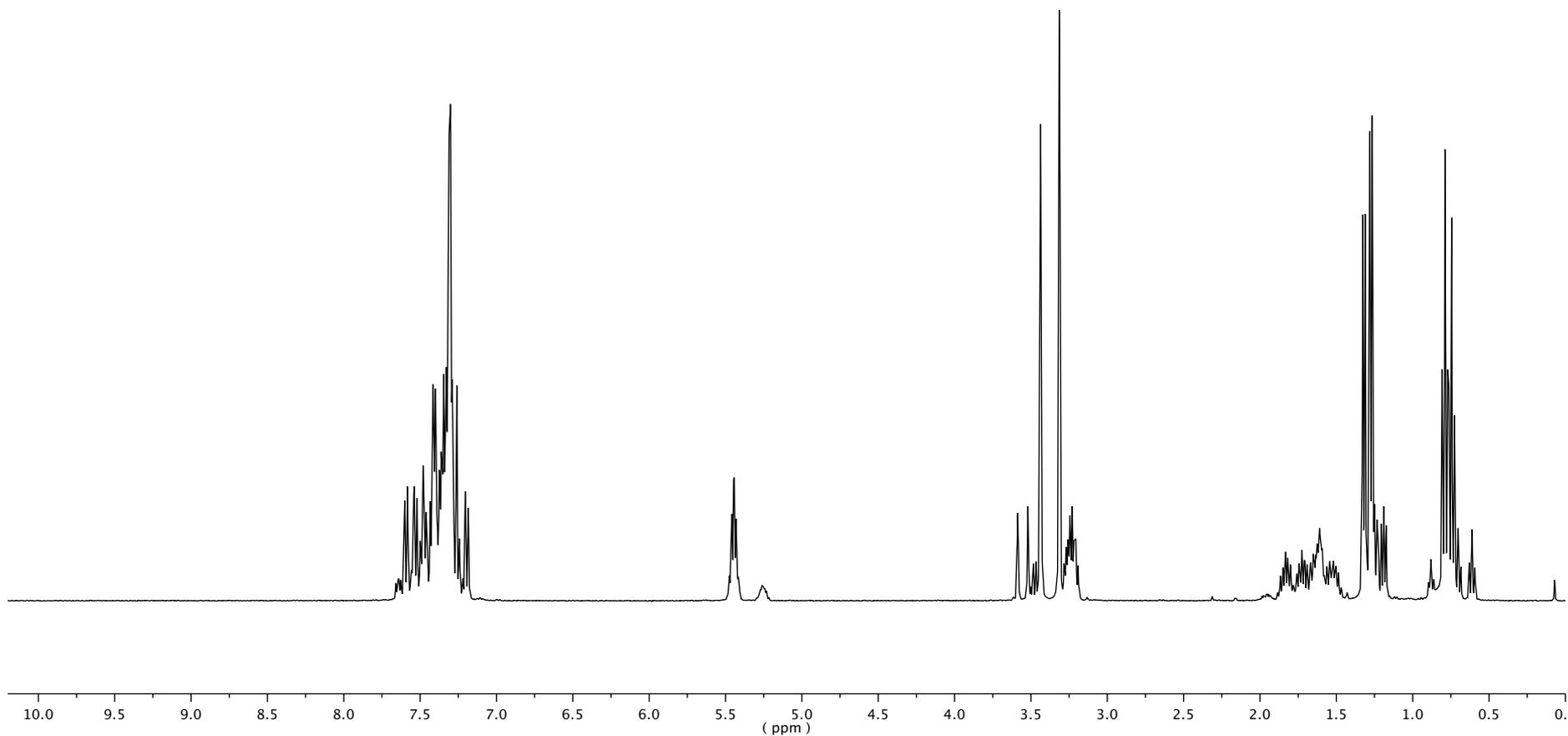
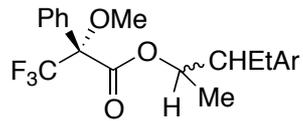






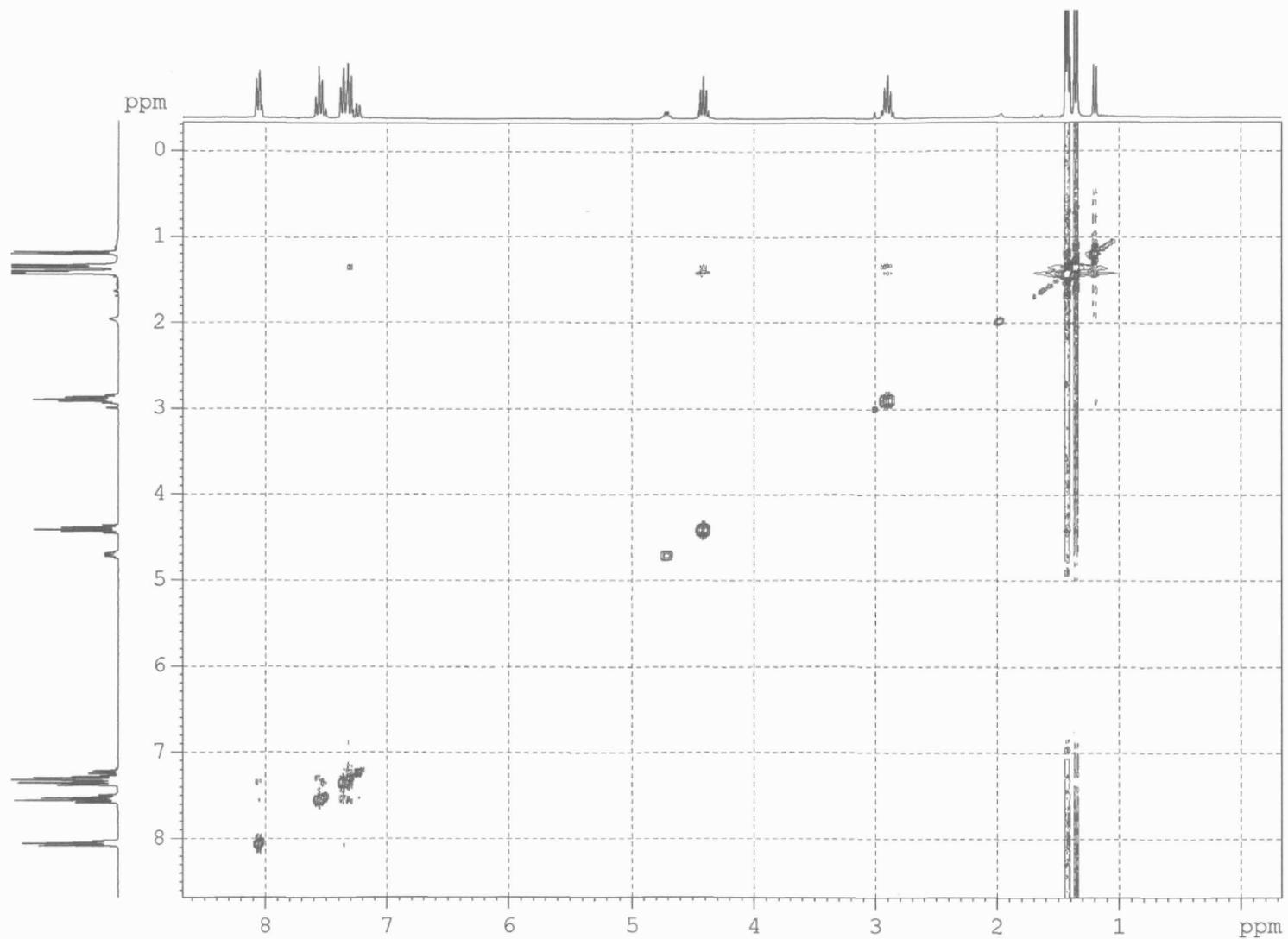
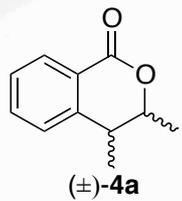


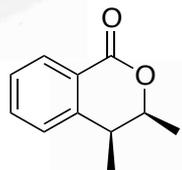




S107







(3*S*,4*S*)-4a

