

Short, Efficient Synthesis of Fluorinated δ -Lactams.

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Supporting Information

Spectral data

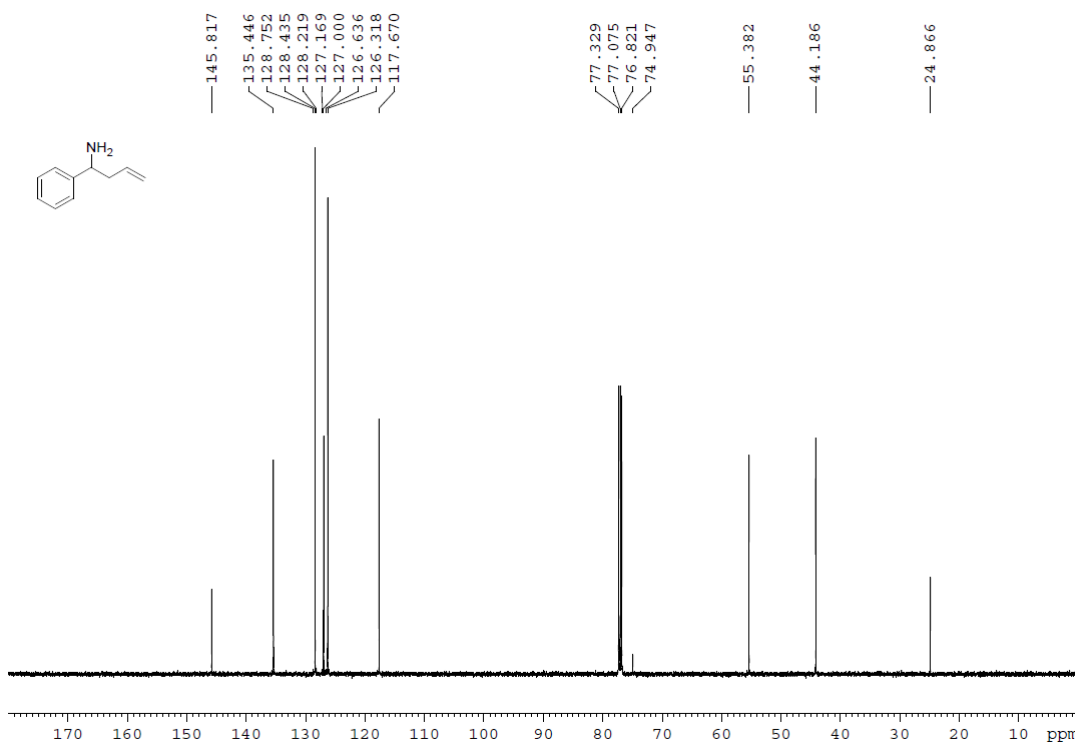
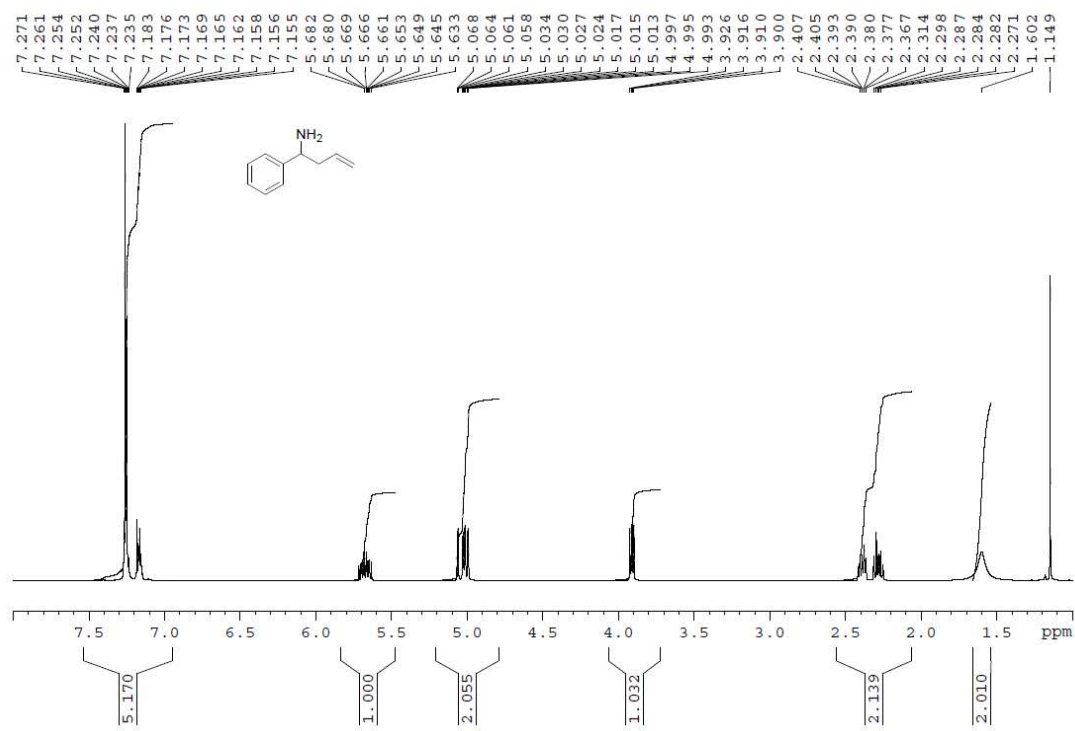
[†] University of Glasgow.

[‡] AstraZeneca.

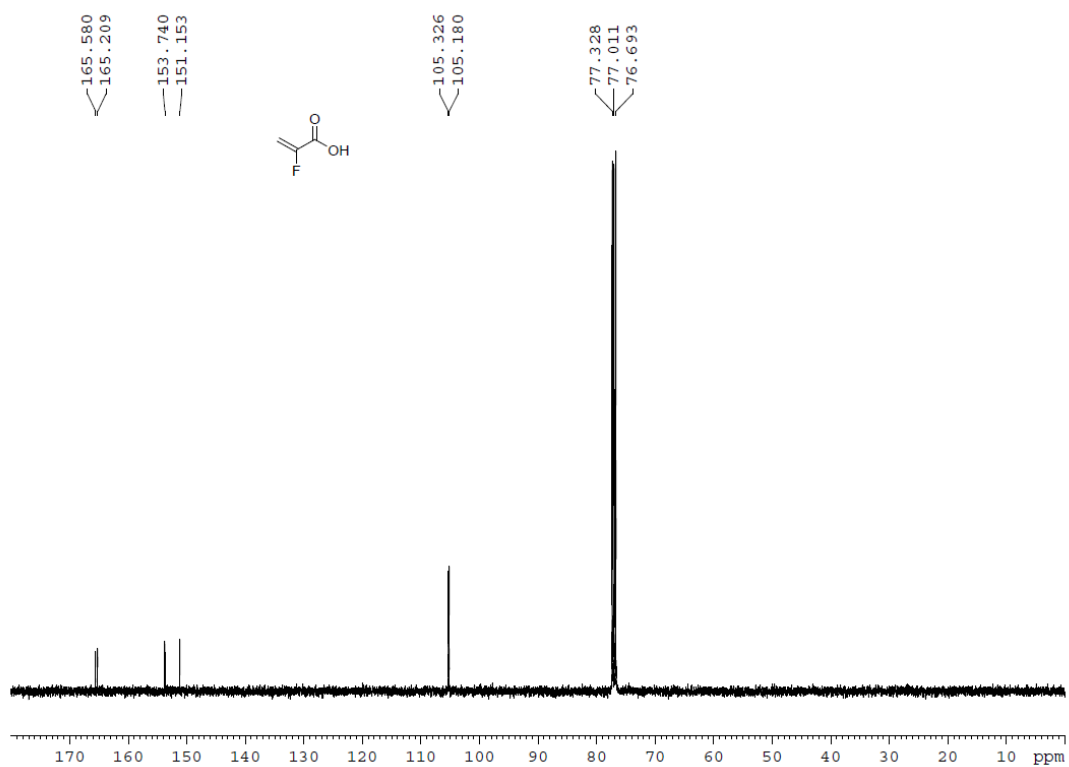
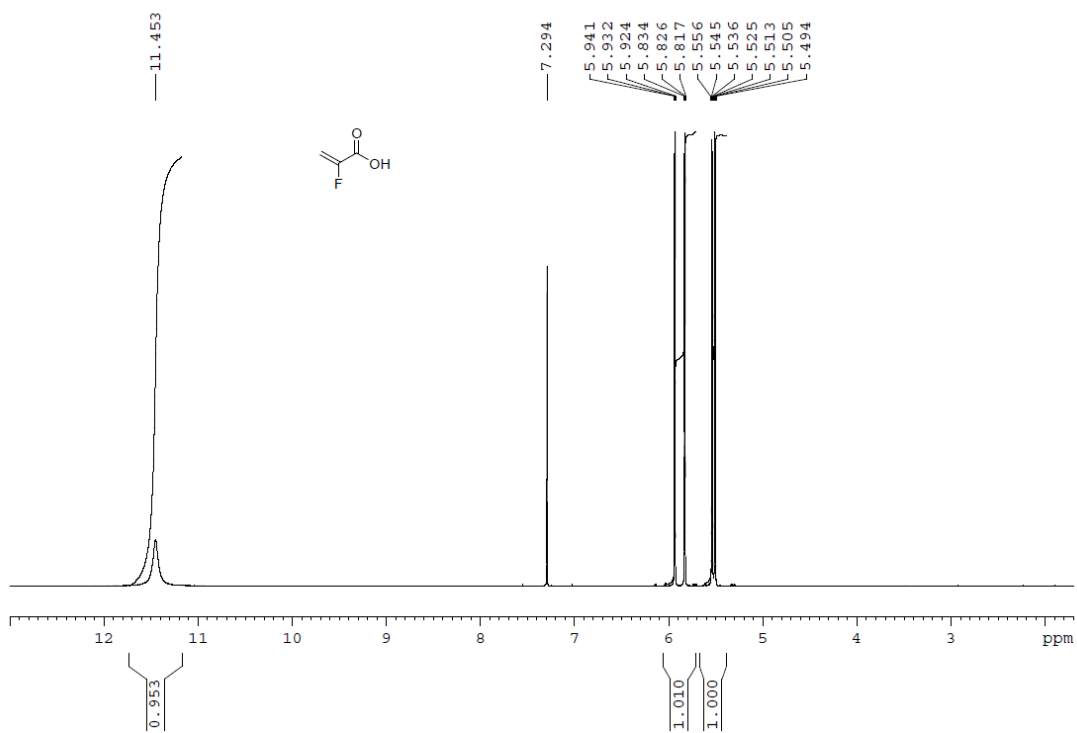
[§] Author to whom crystallographic data questions should be addressed.

^{\diamond} Ian Sword Reader of Organic Chemistry and EPSRC Leadership Fellow.

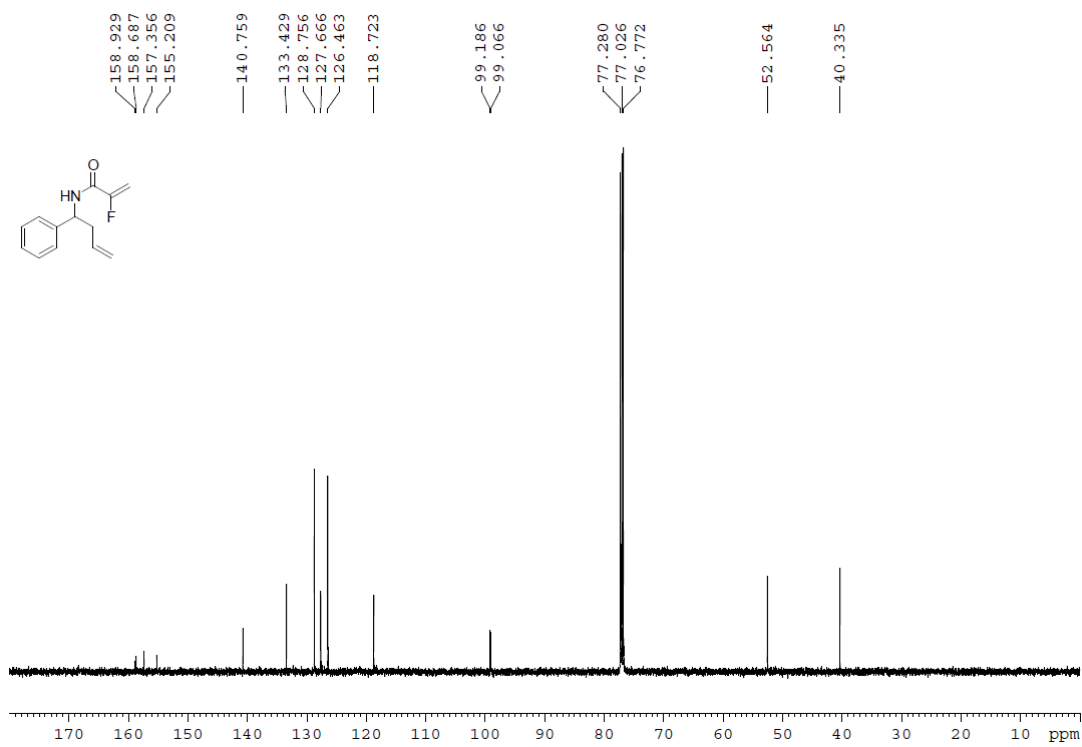
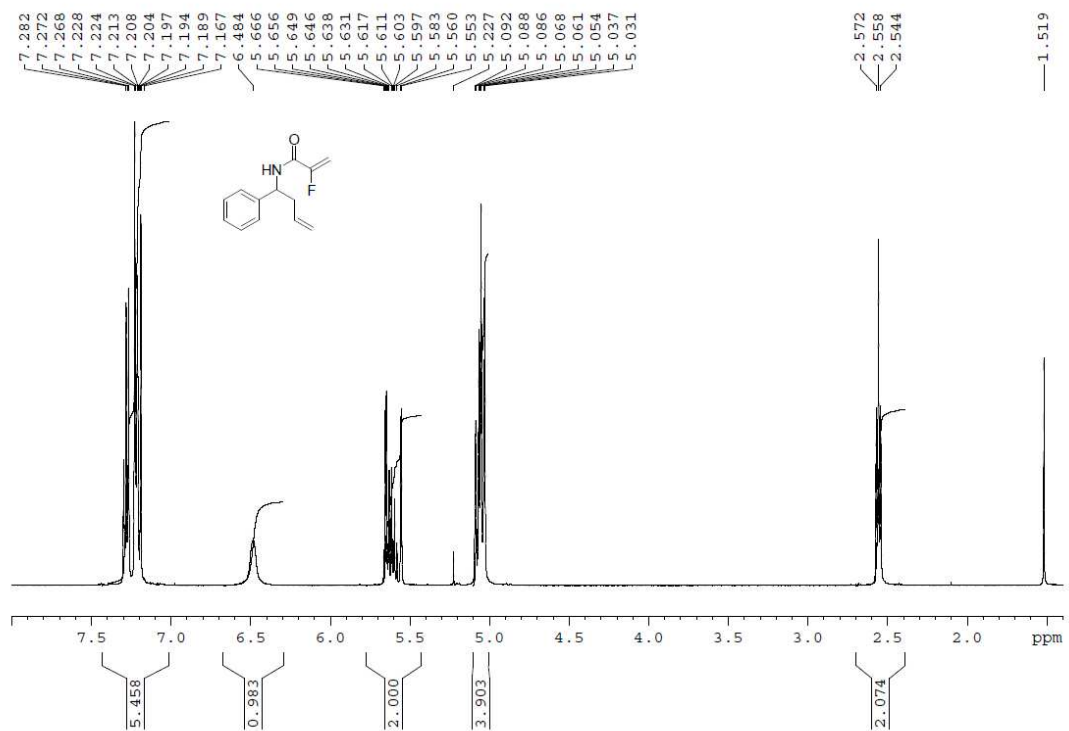
1-Phenylbut-3-en-1-ylamine, 3.



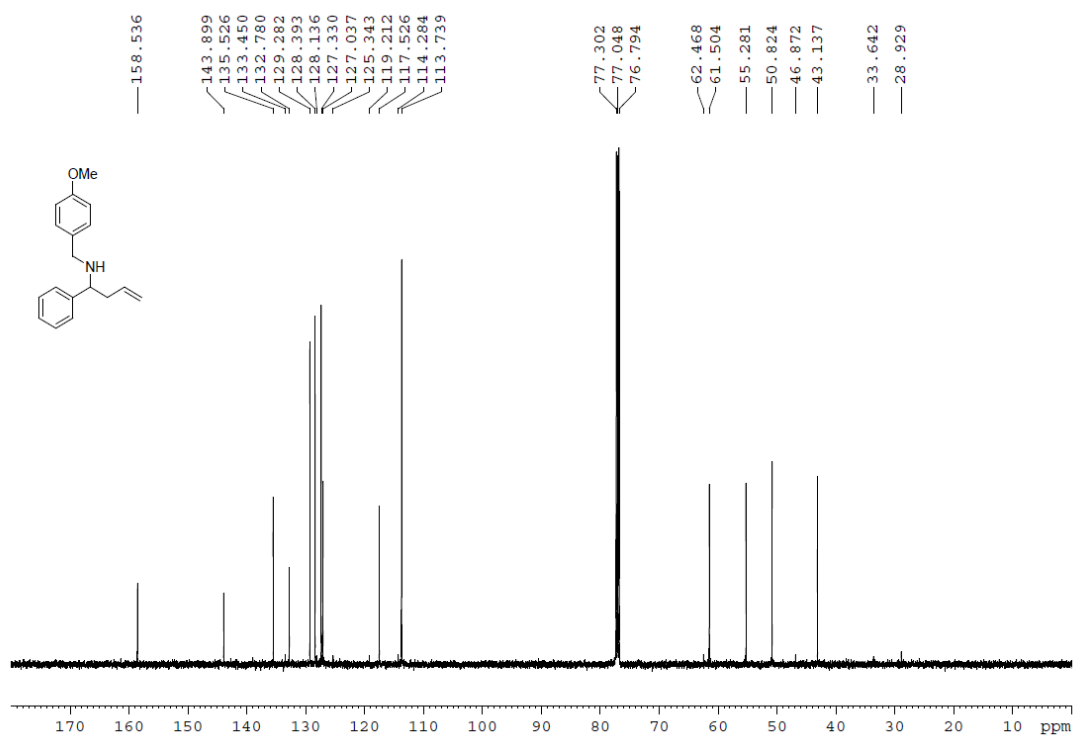
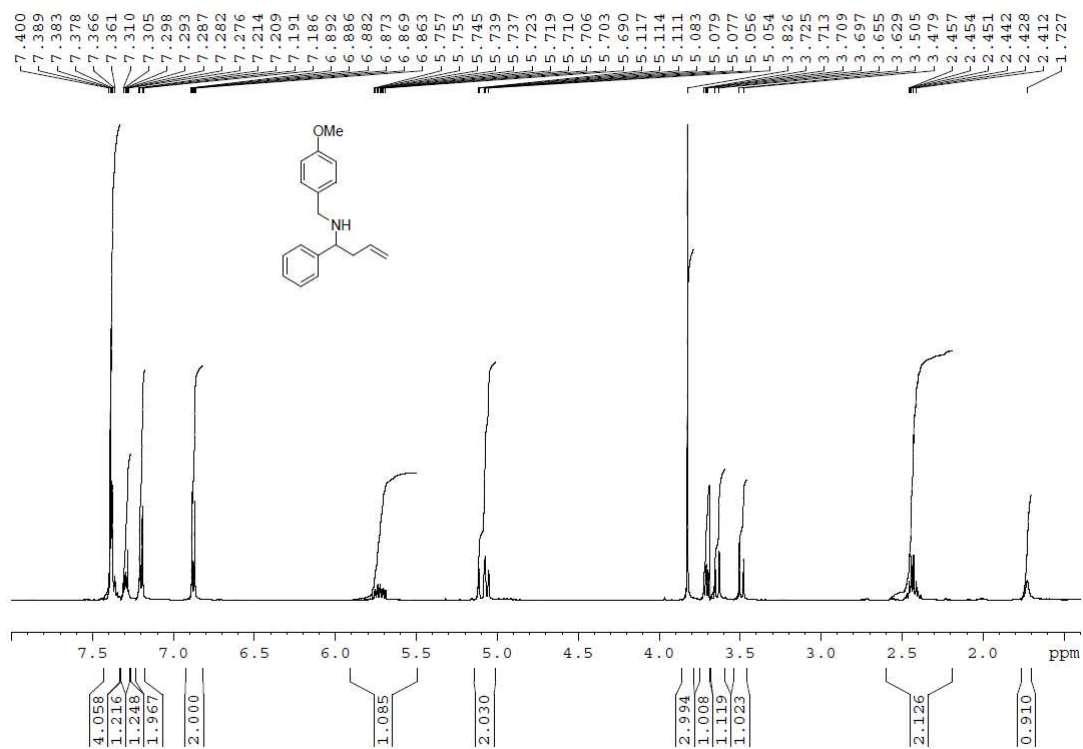
2-Fluoroacrylic Acid, 4.



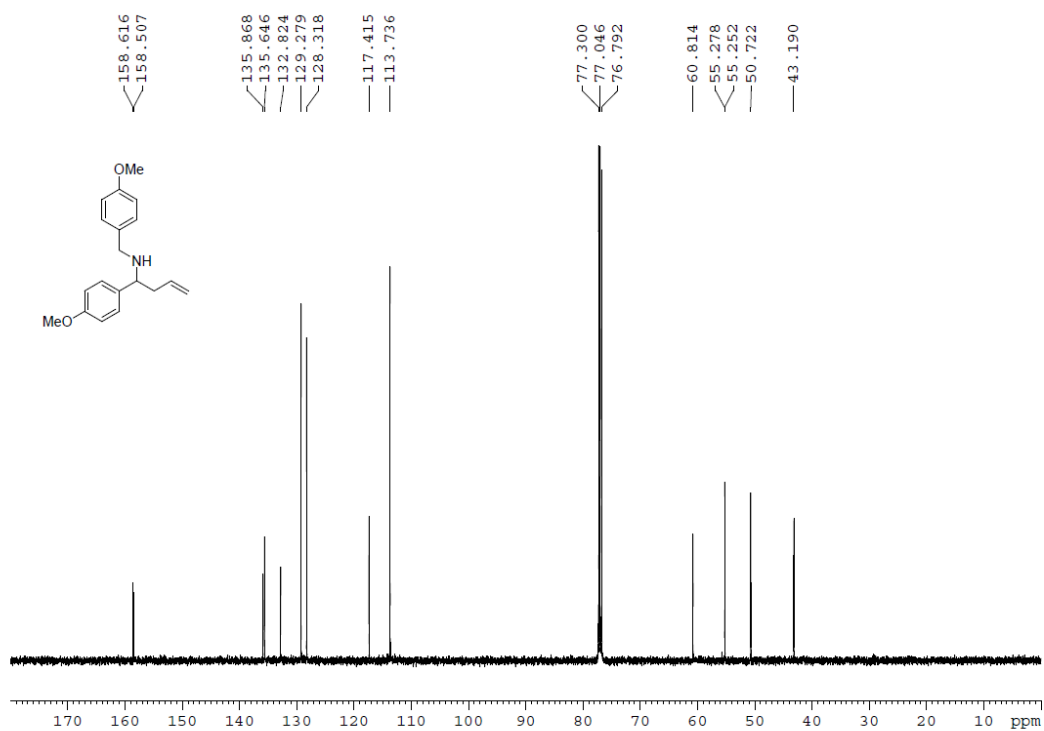
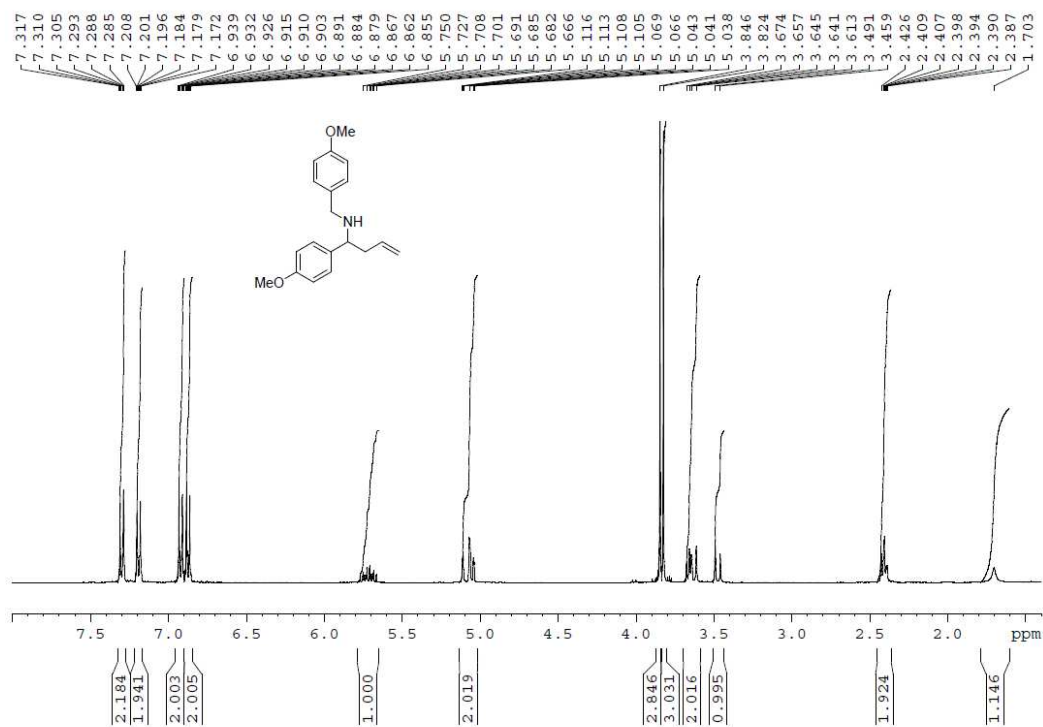
2-Fluoro-N-(1-phenyl-but-3-enyl)-propenamide, 5.



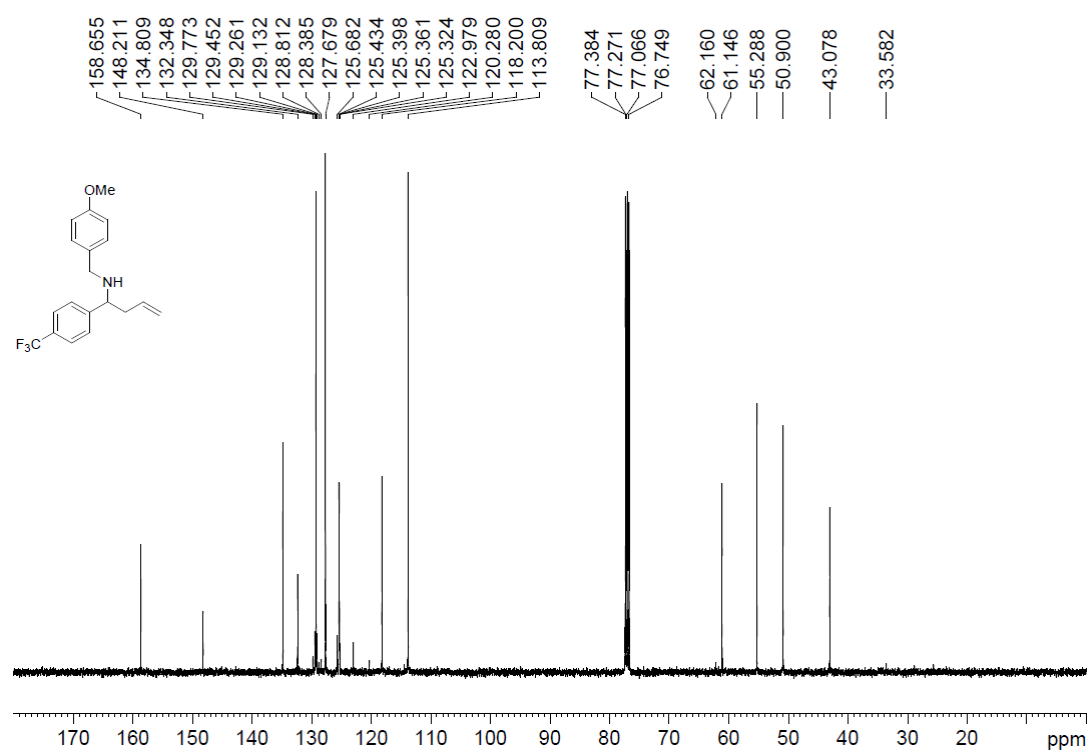
4'-Methoxy-N-(1-phenyl-3-butenyl)benzylamine, 7a.



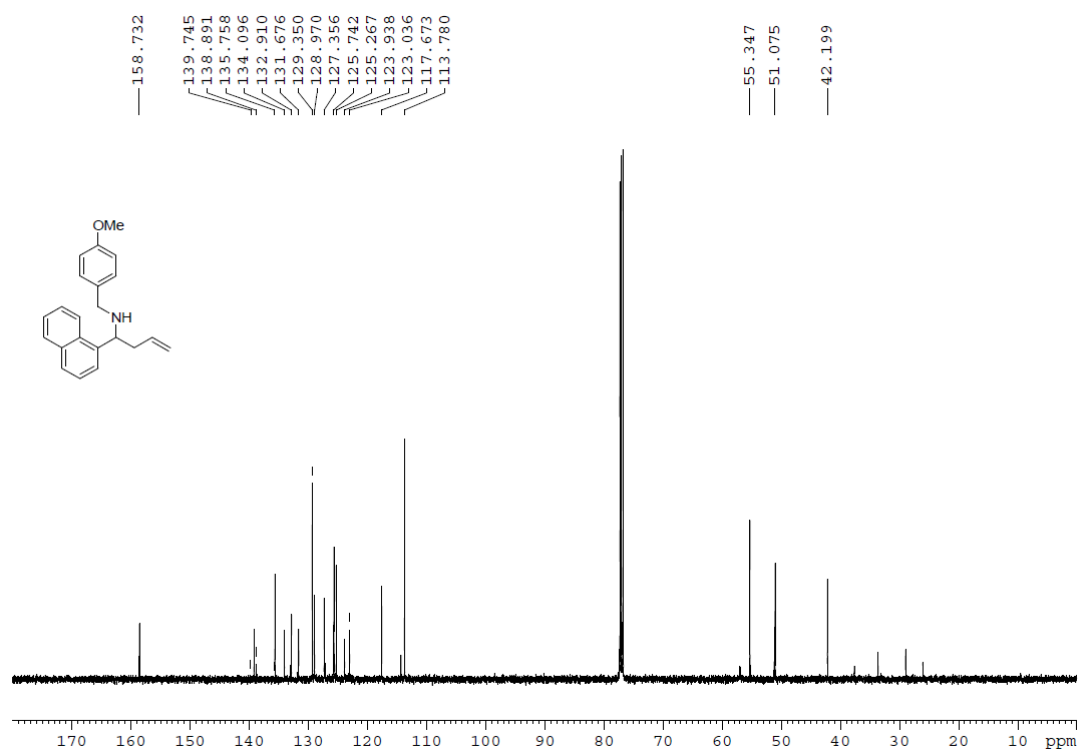
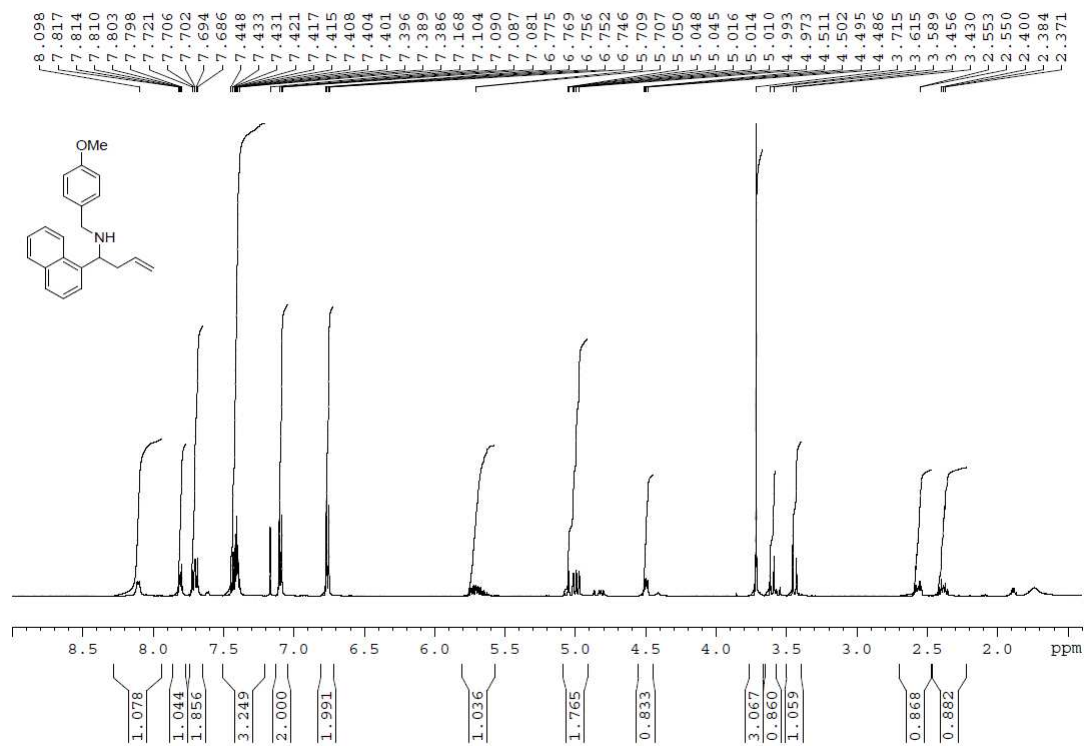
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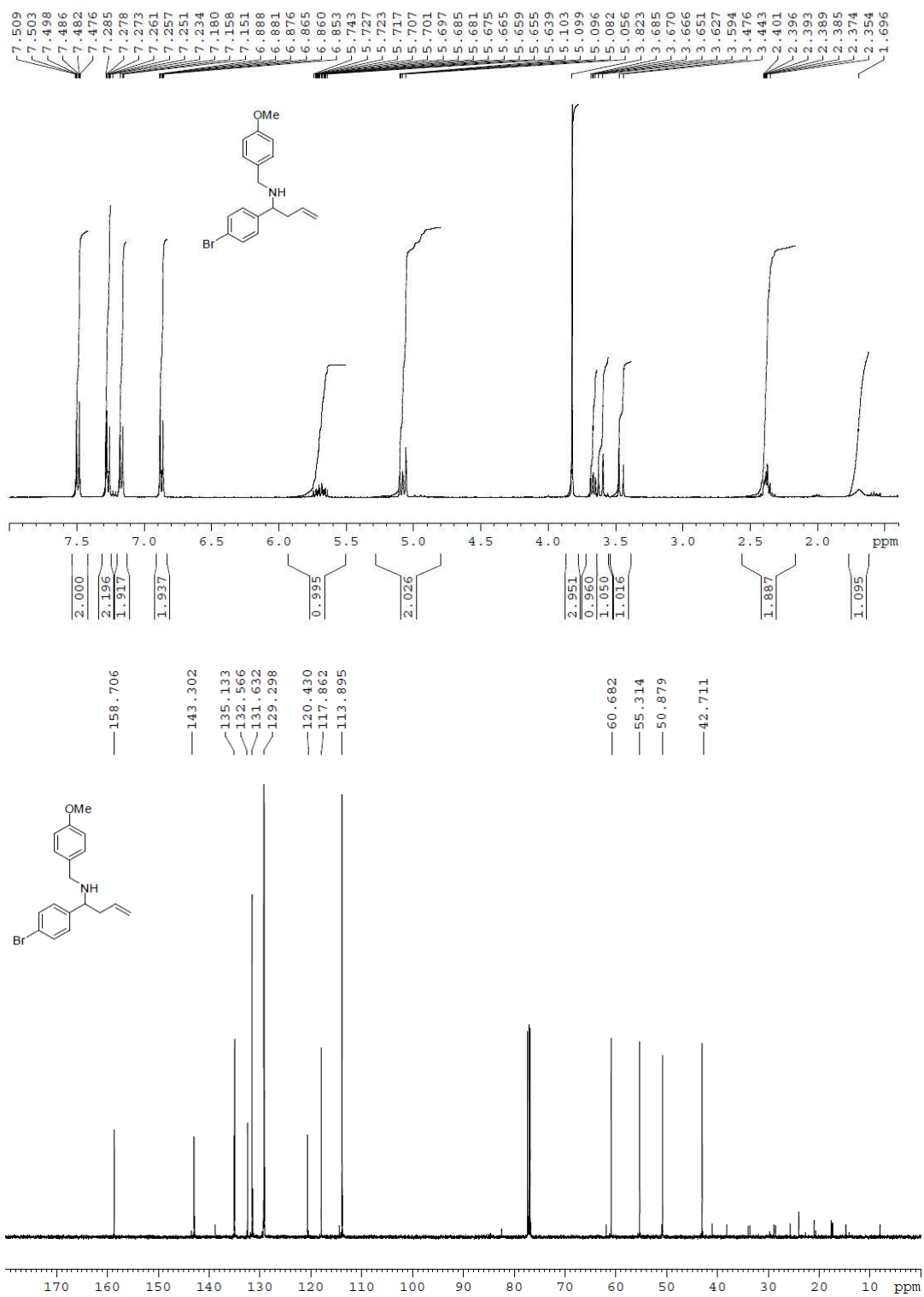
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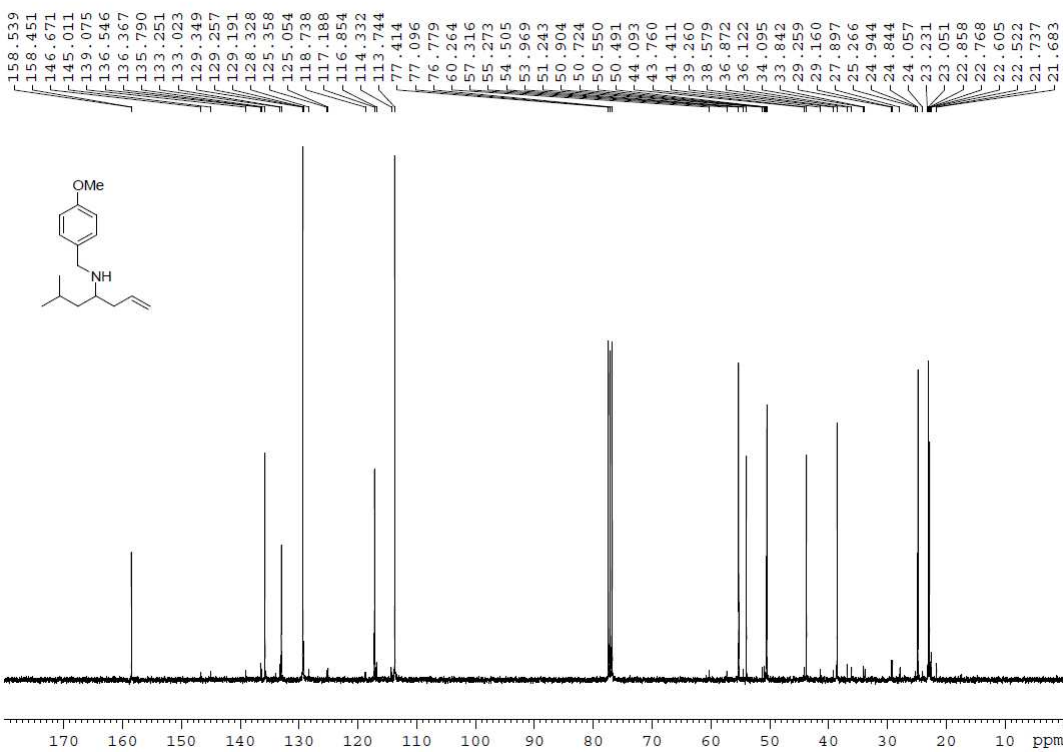
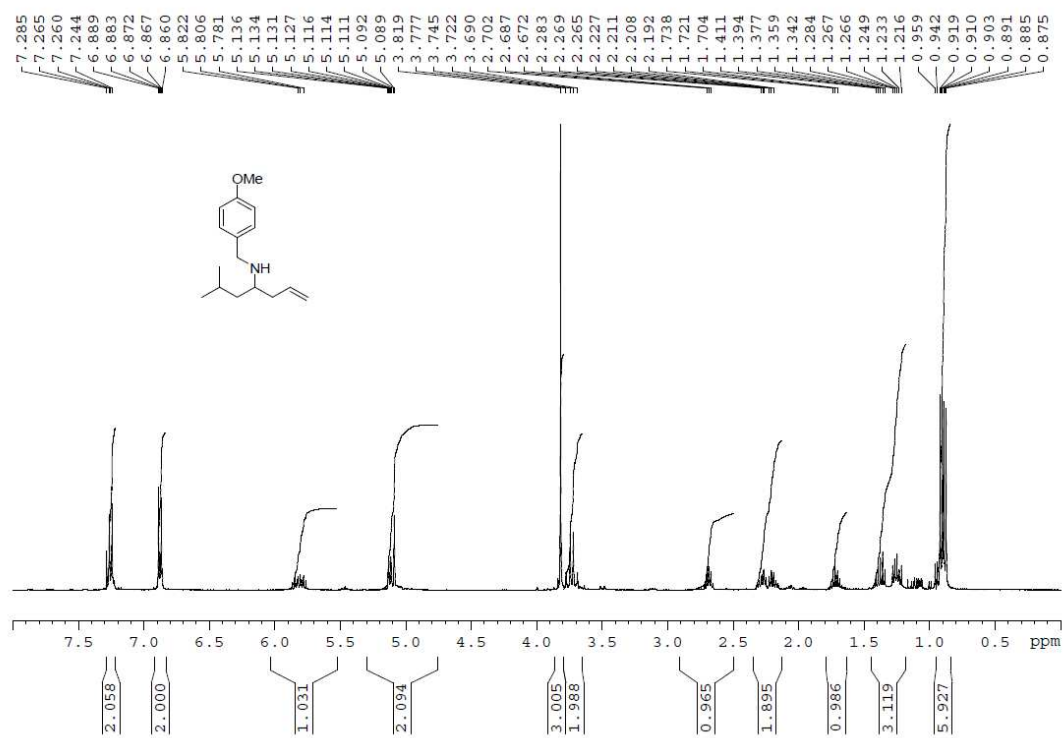
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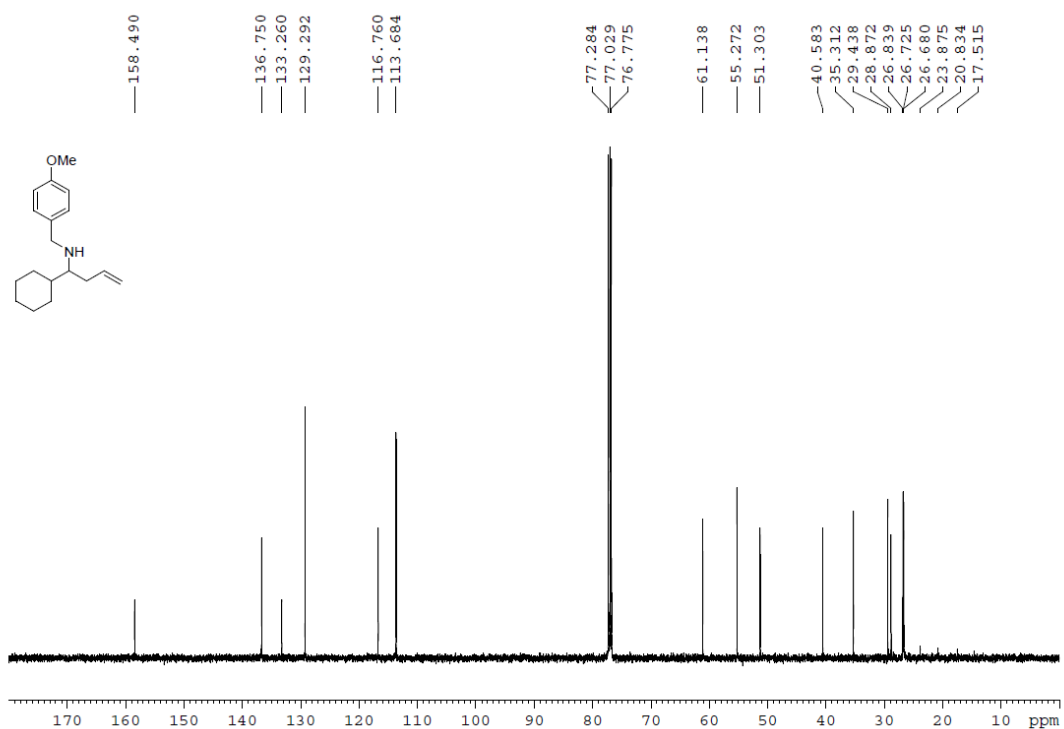
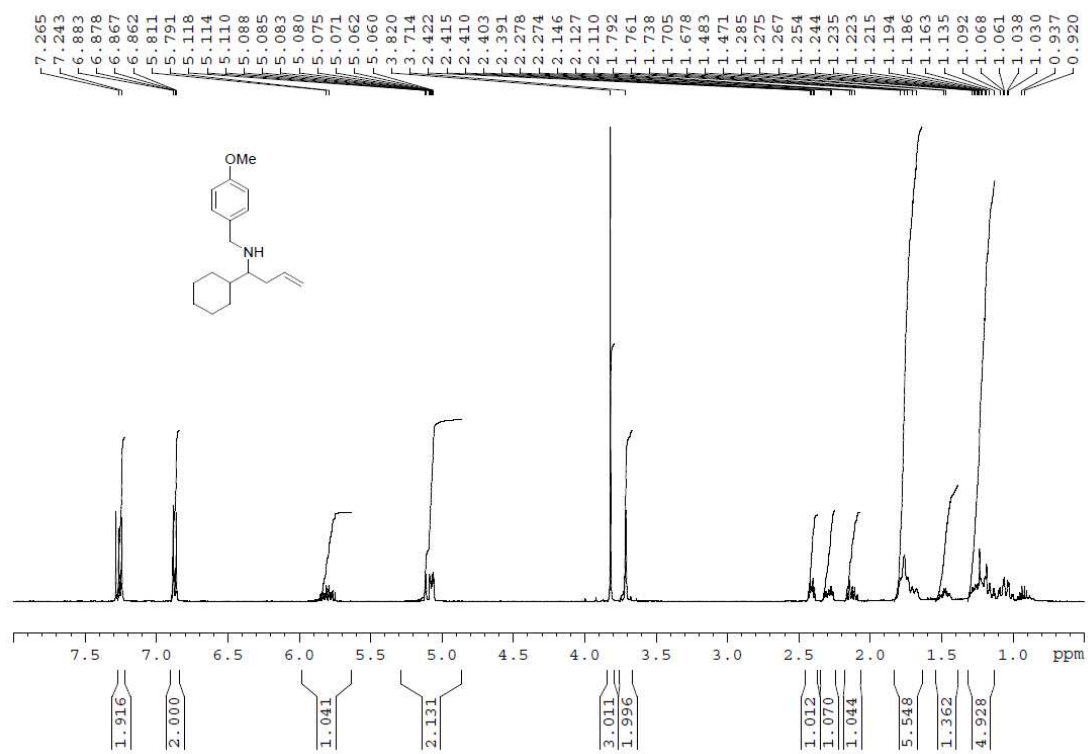
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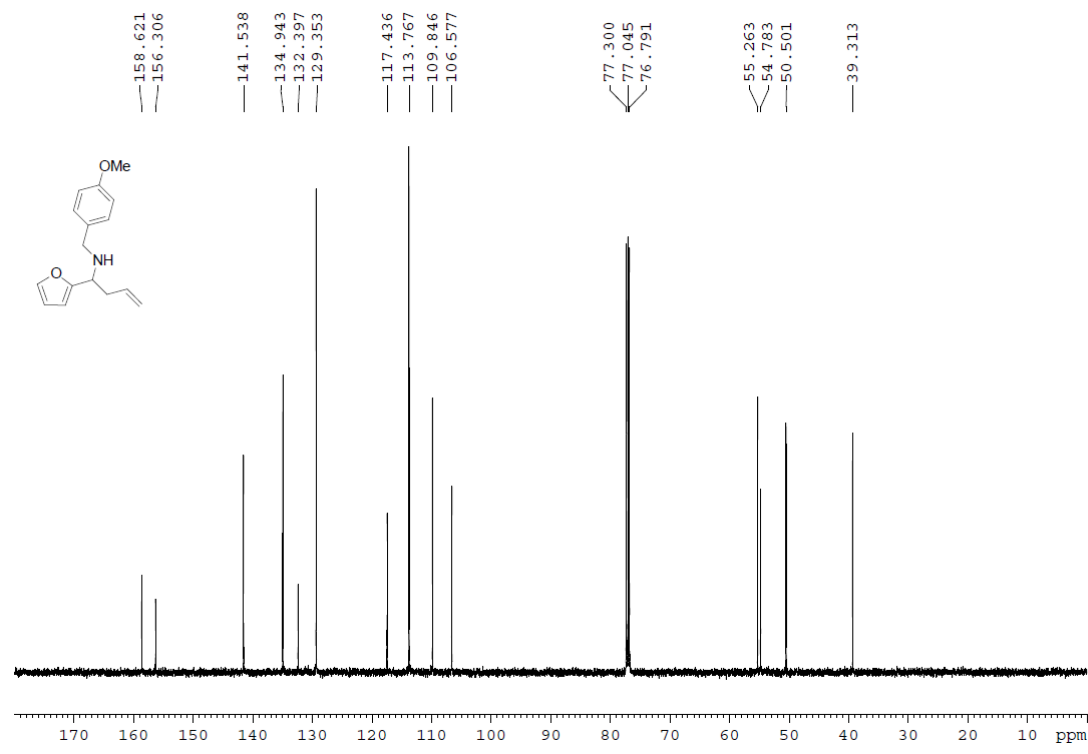
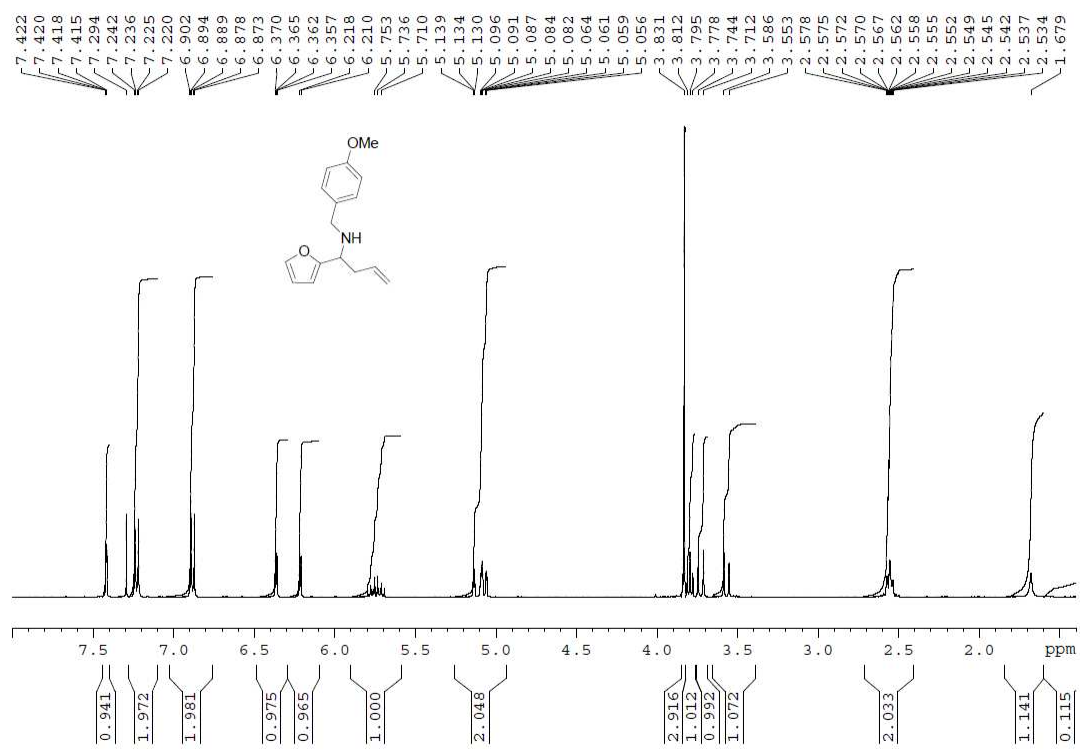
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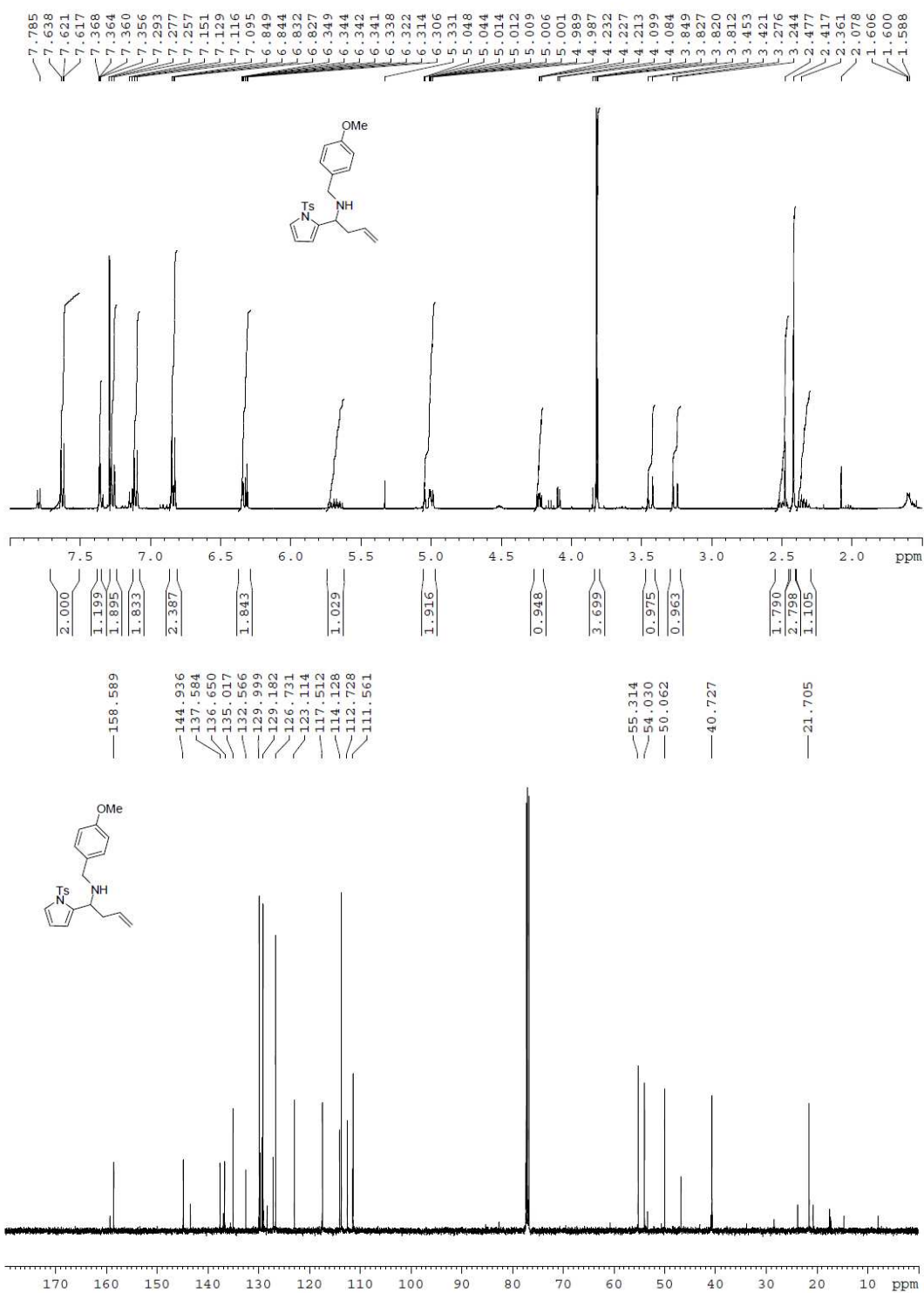
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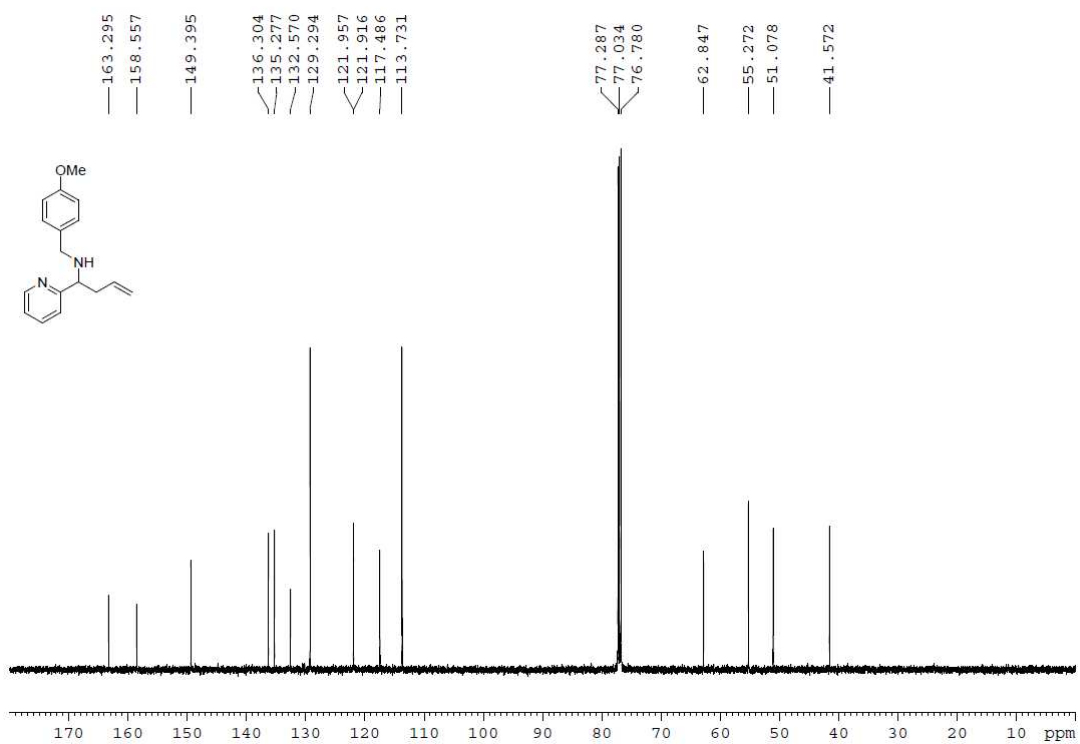
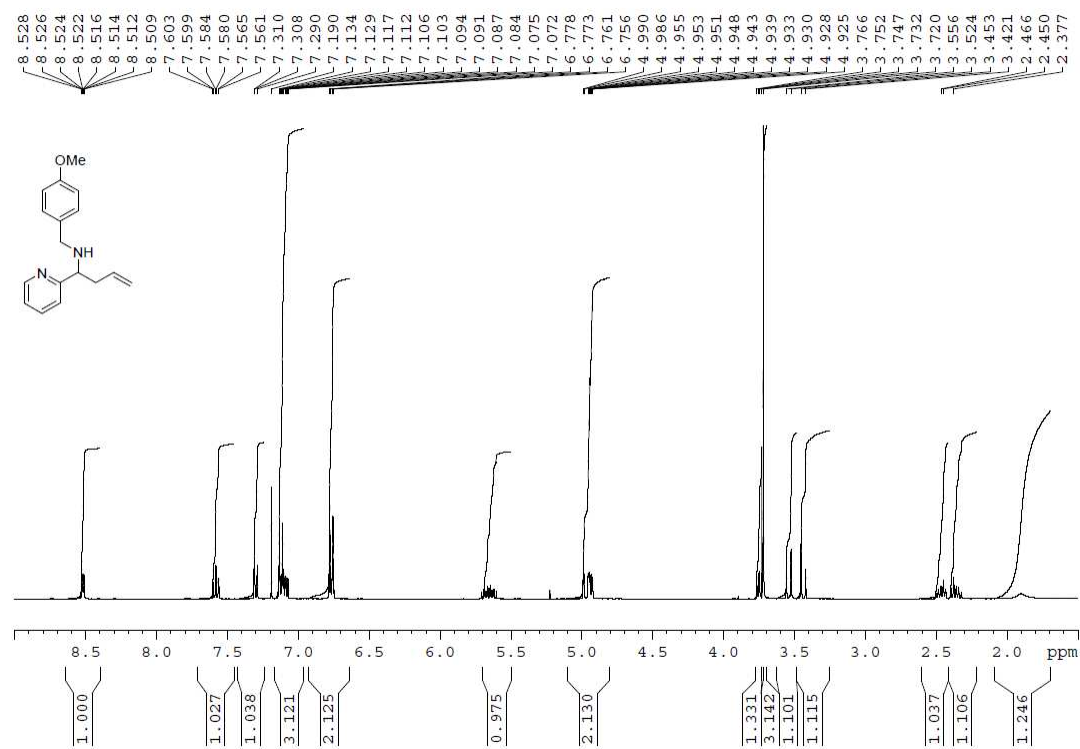
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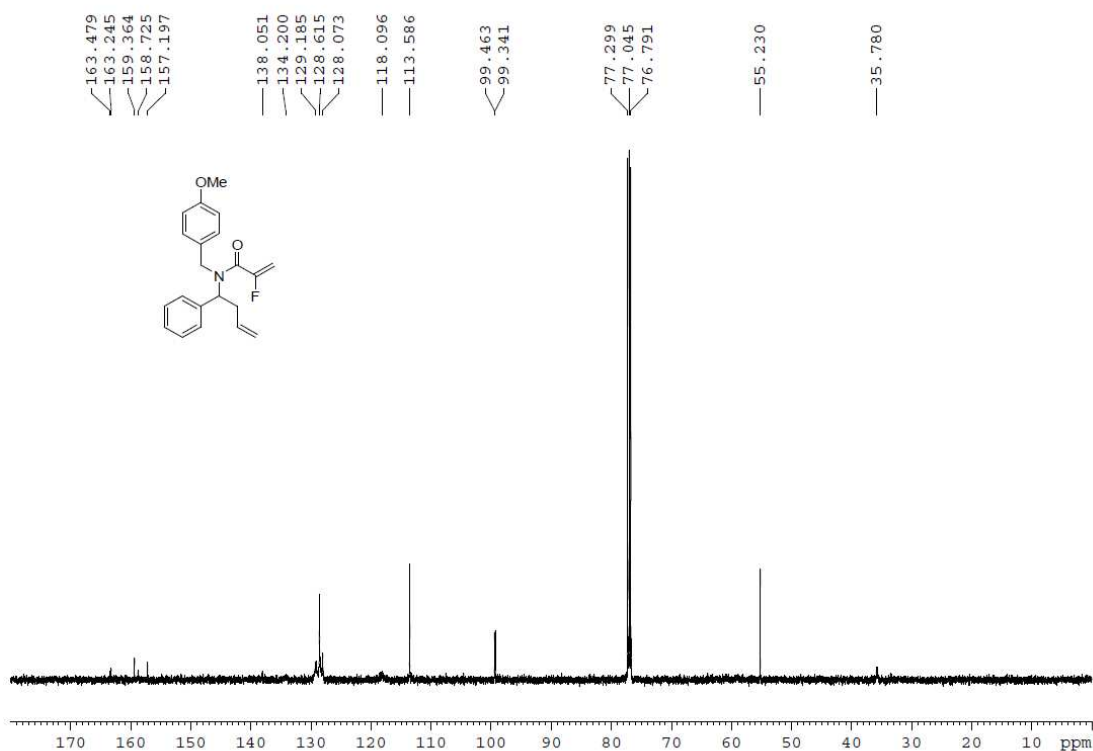
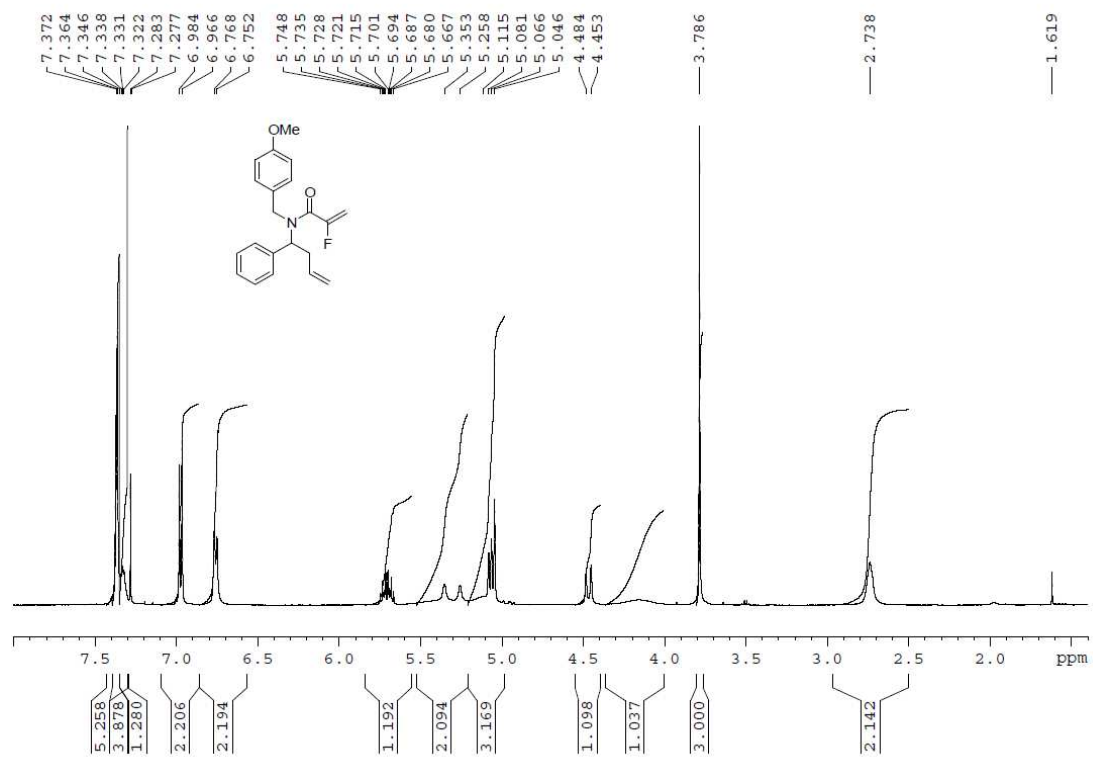
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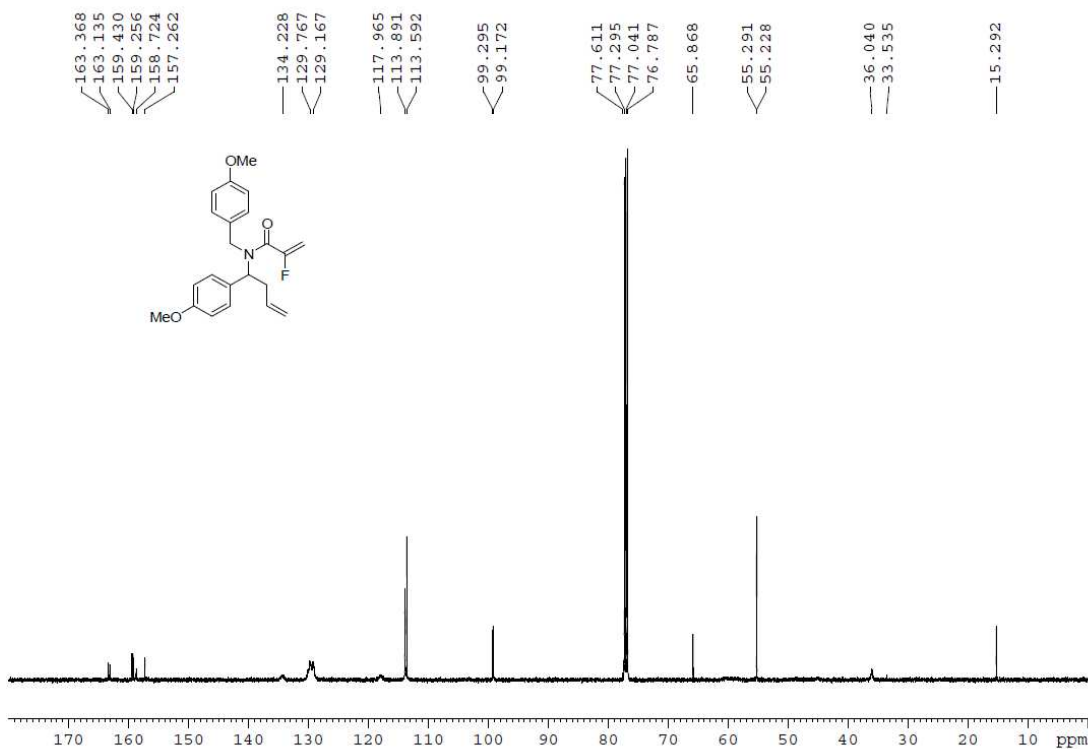
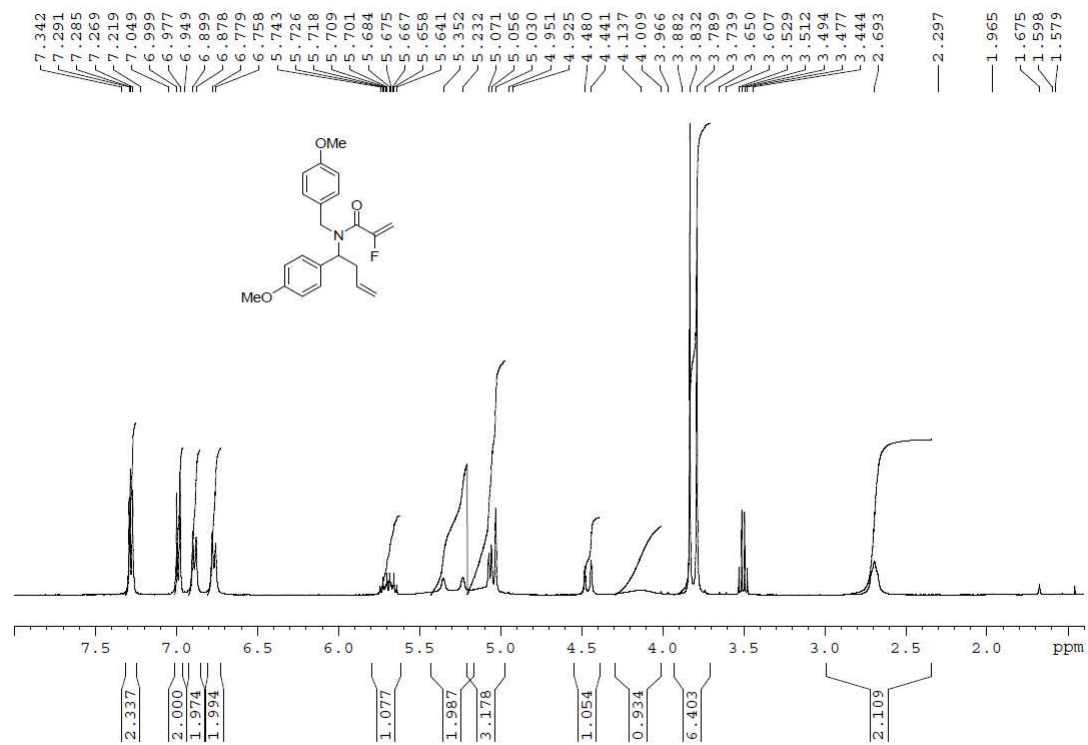
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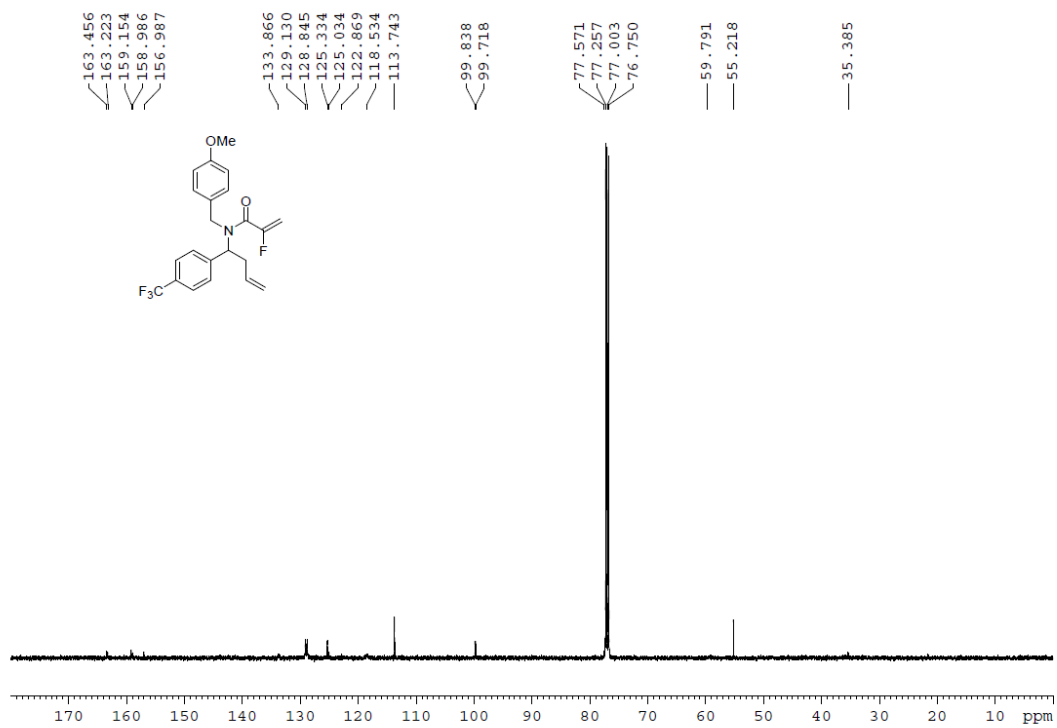
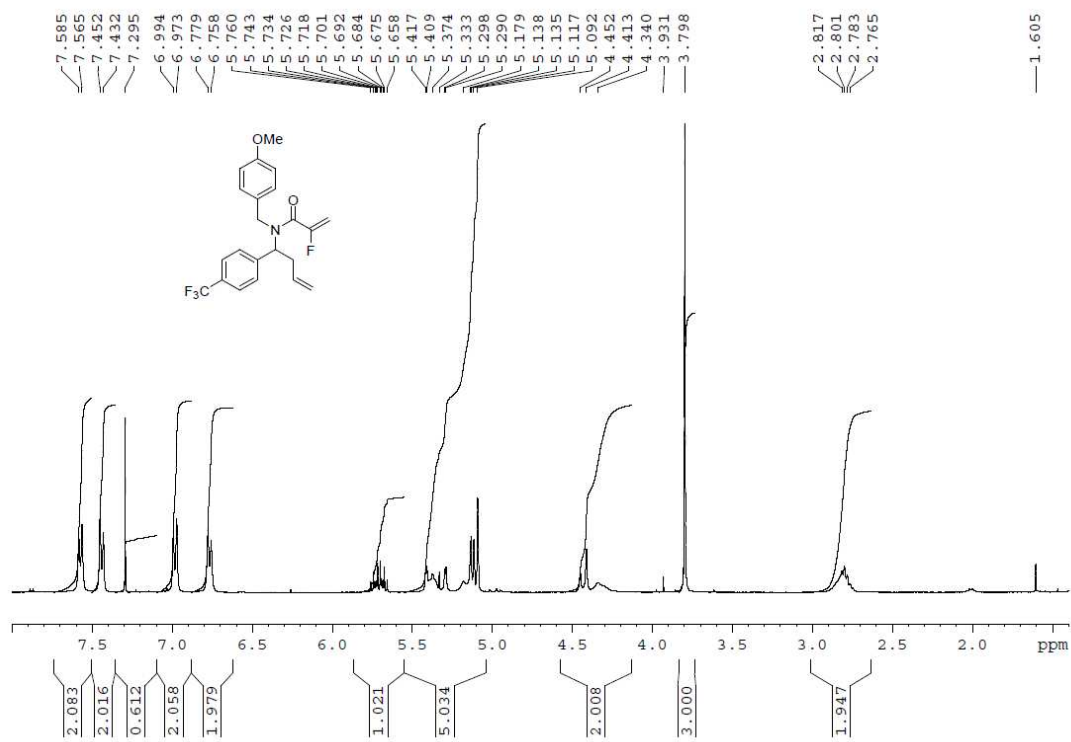
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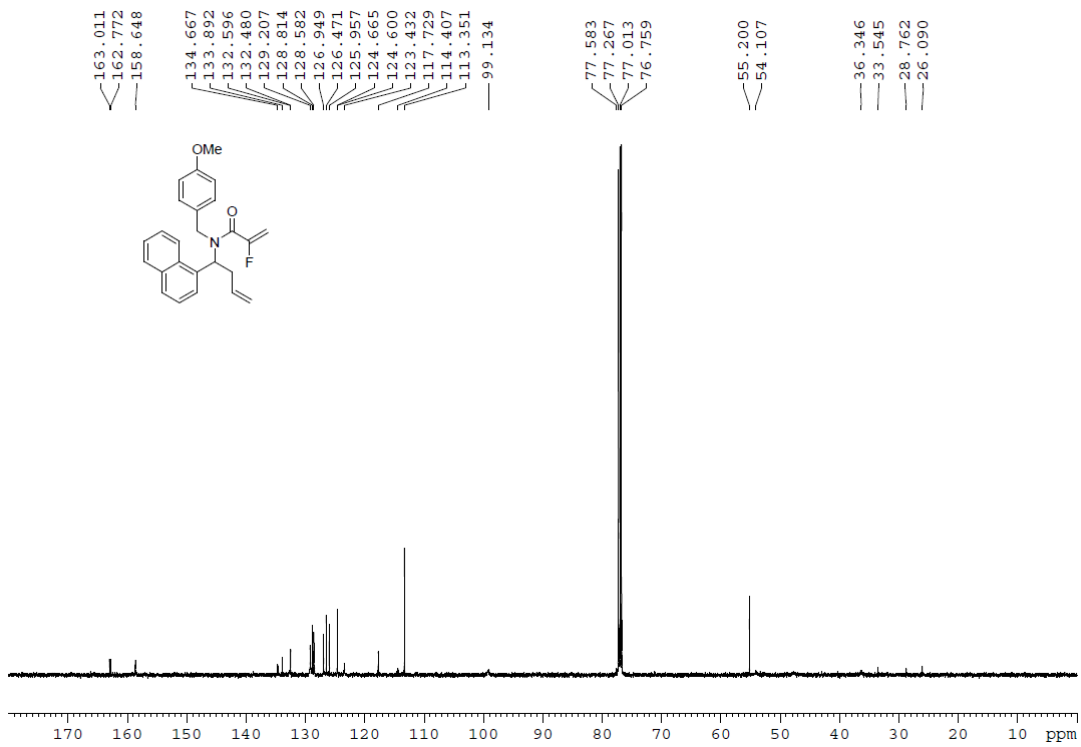
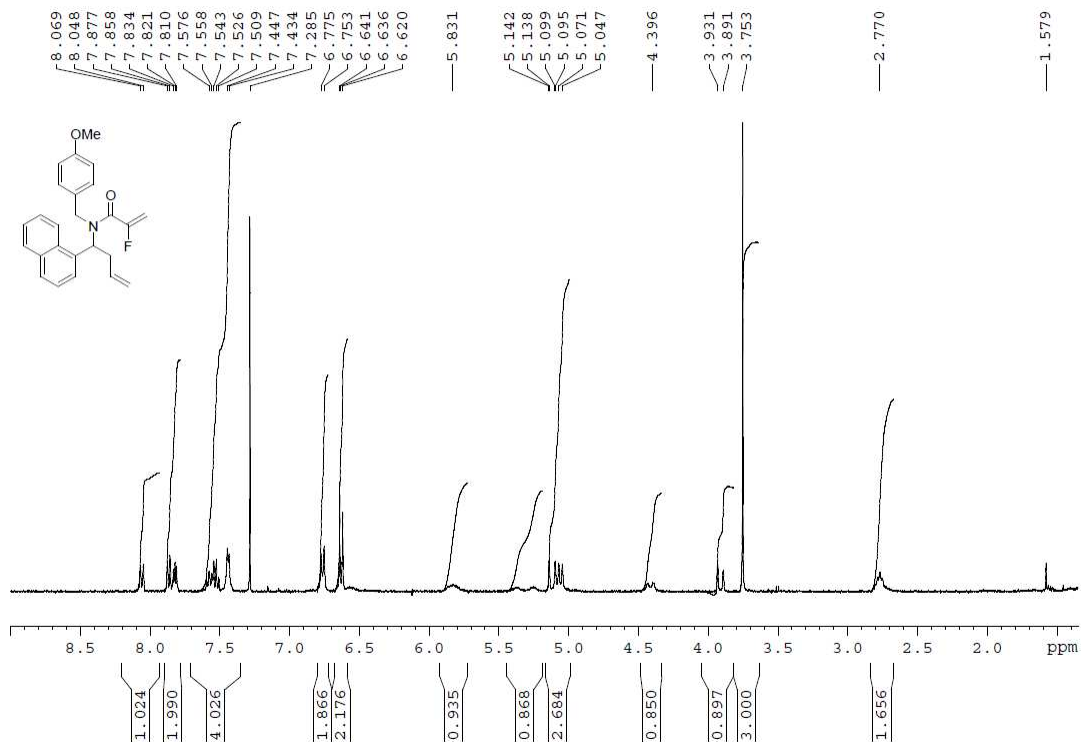
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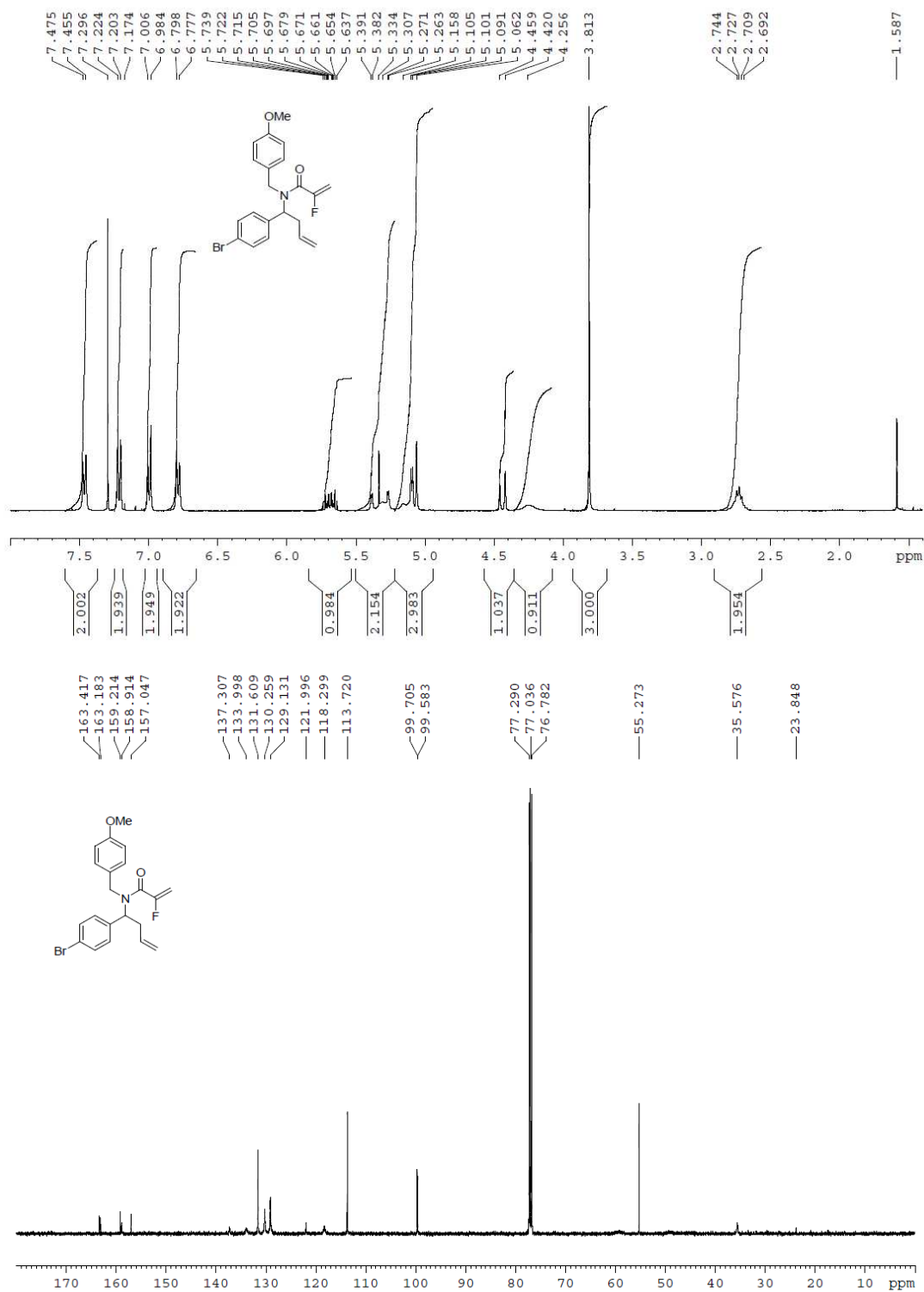
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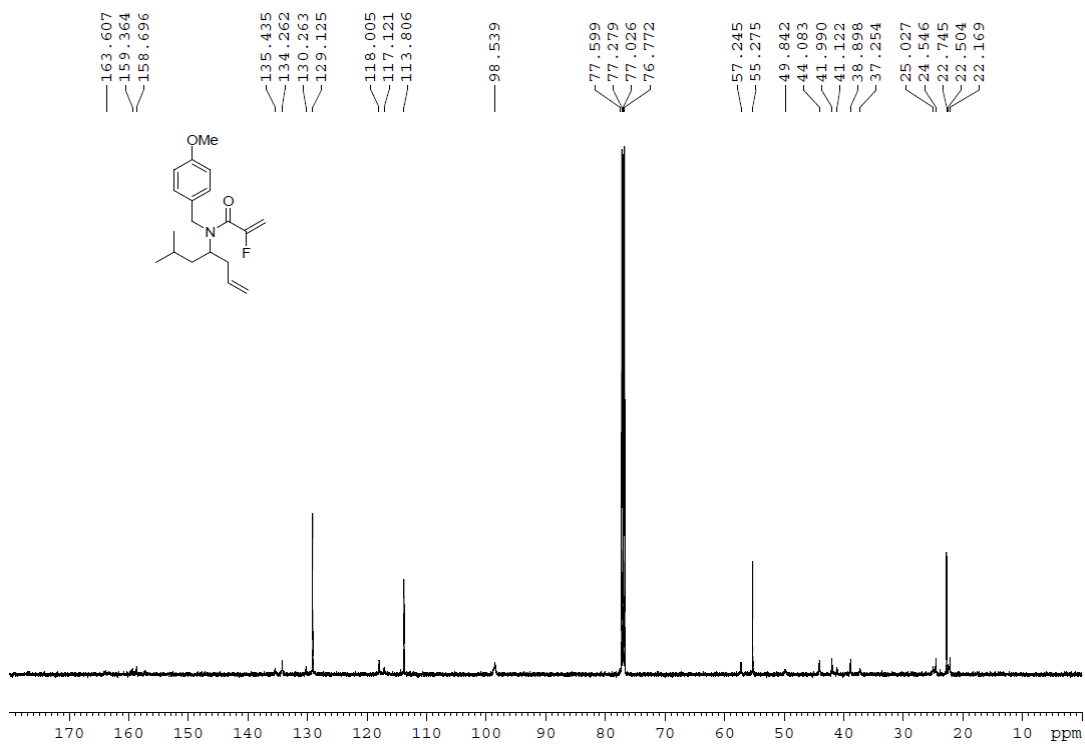
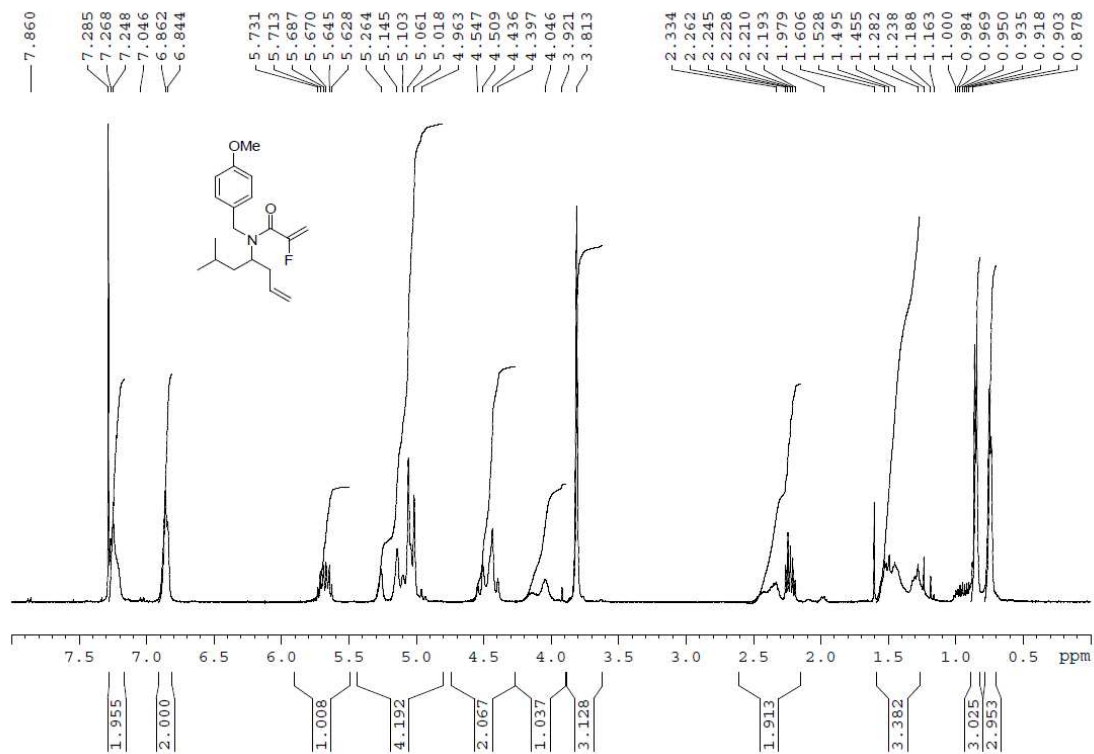
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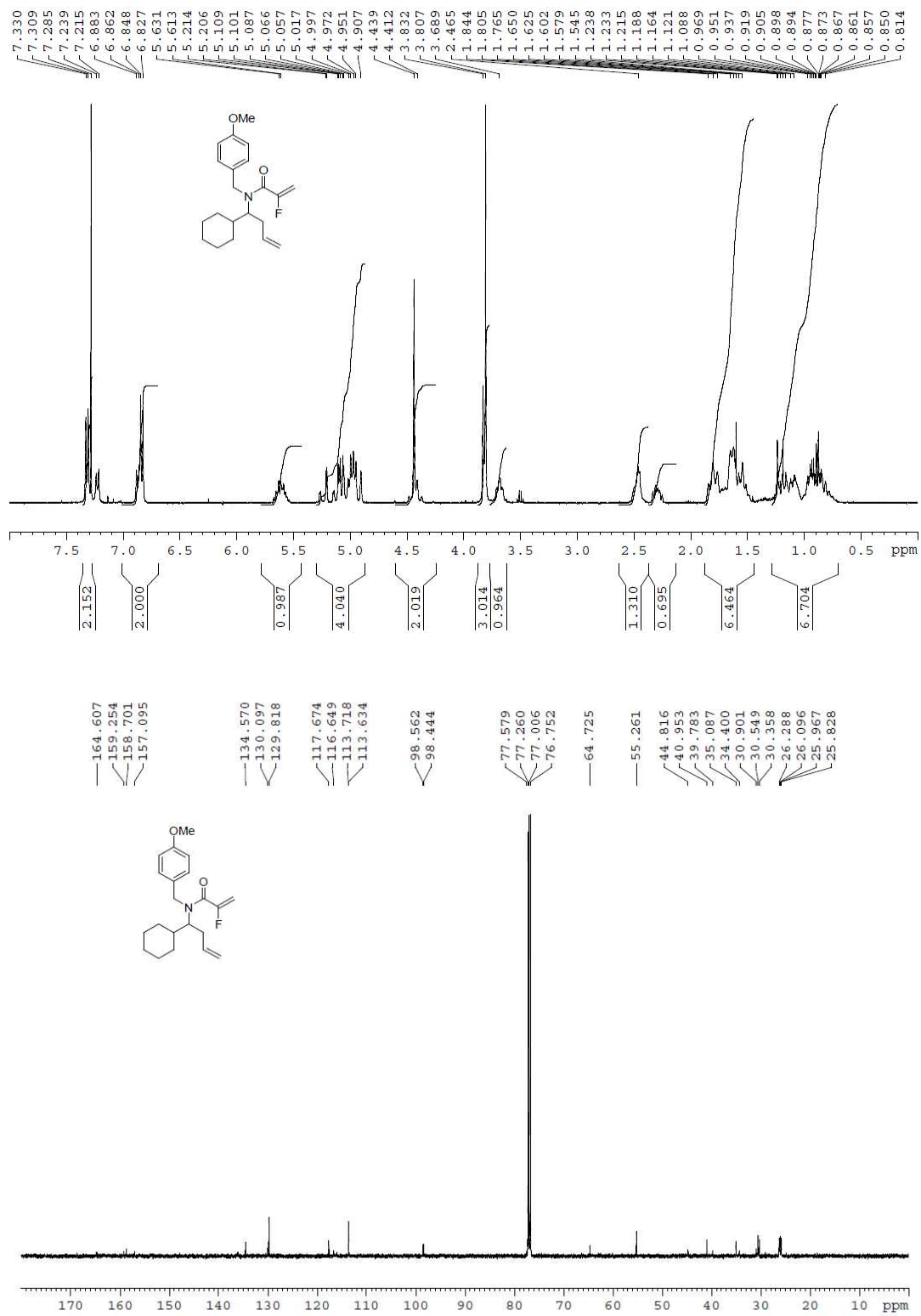
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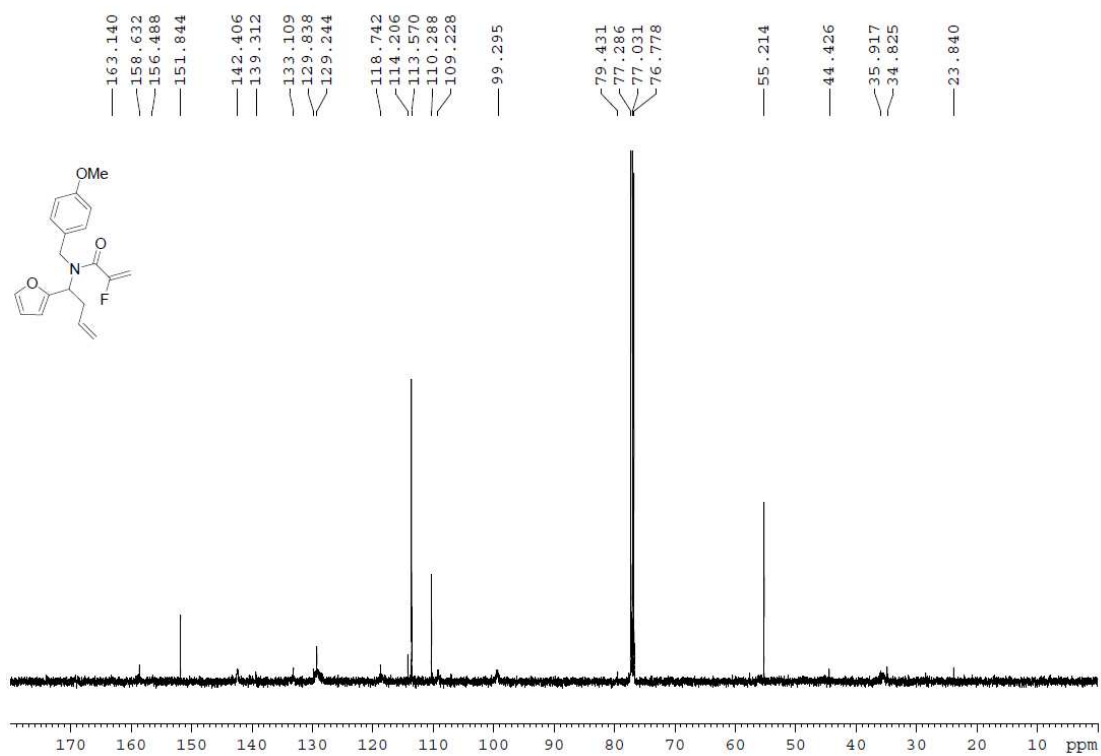
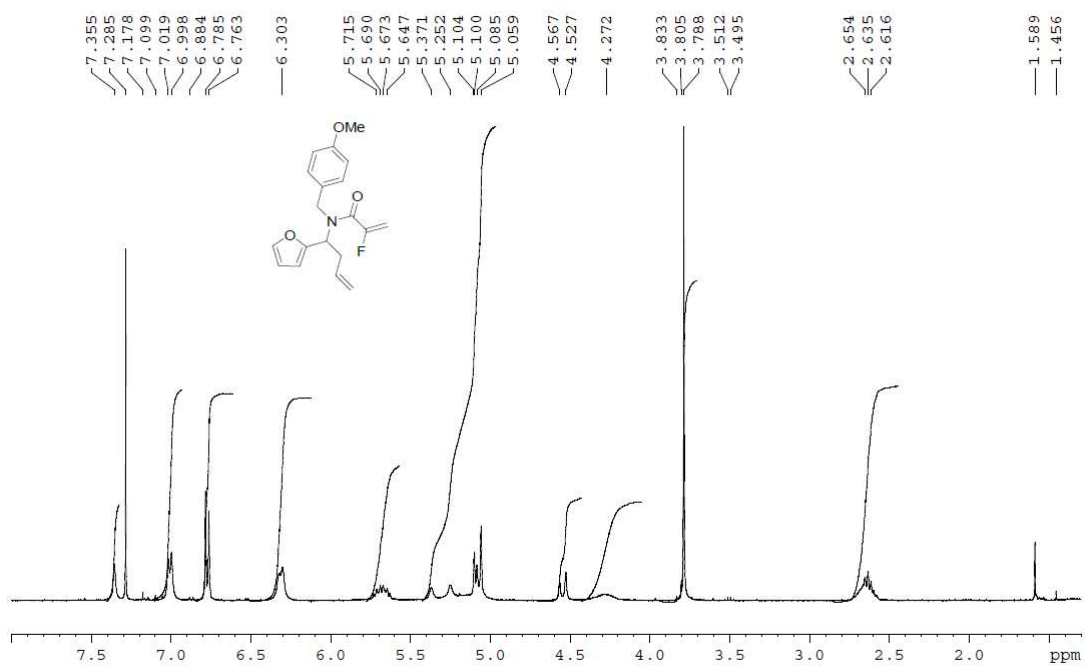
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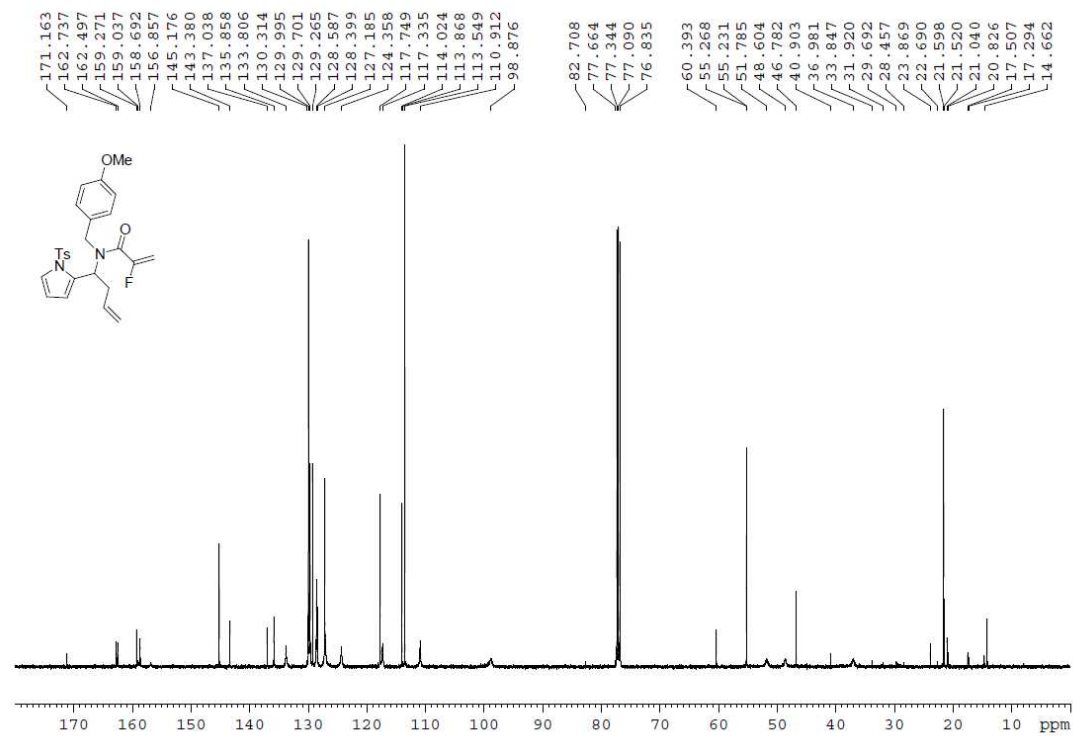
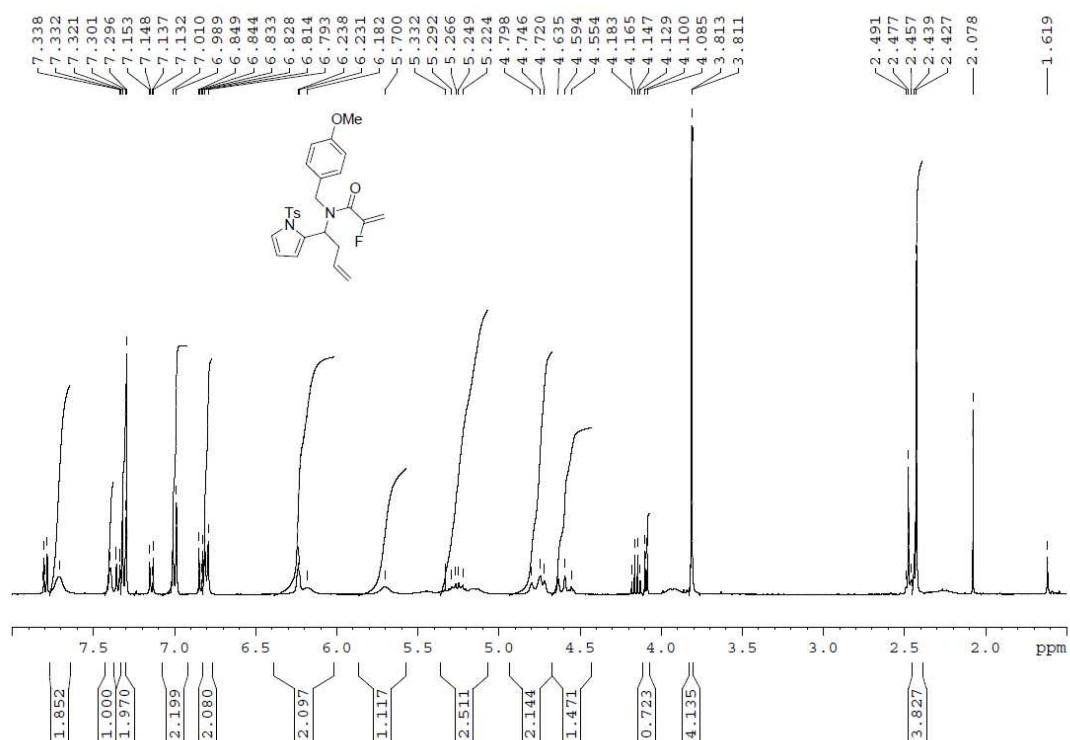
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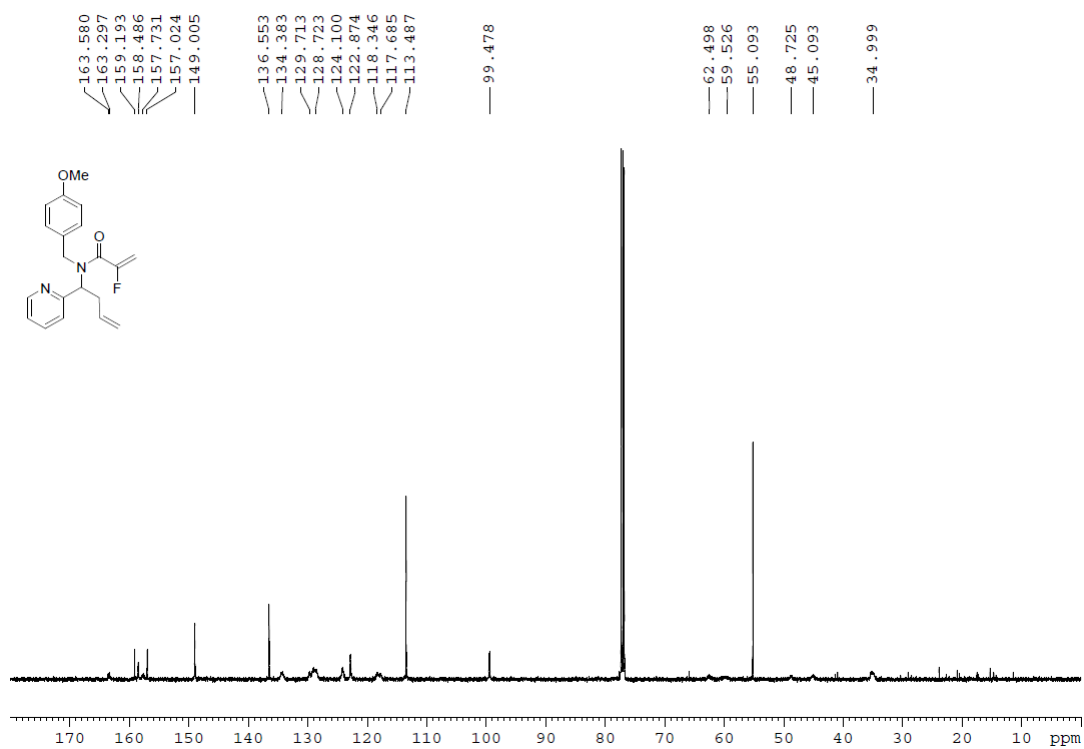
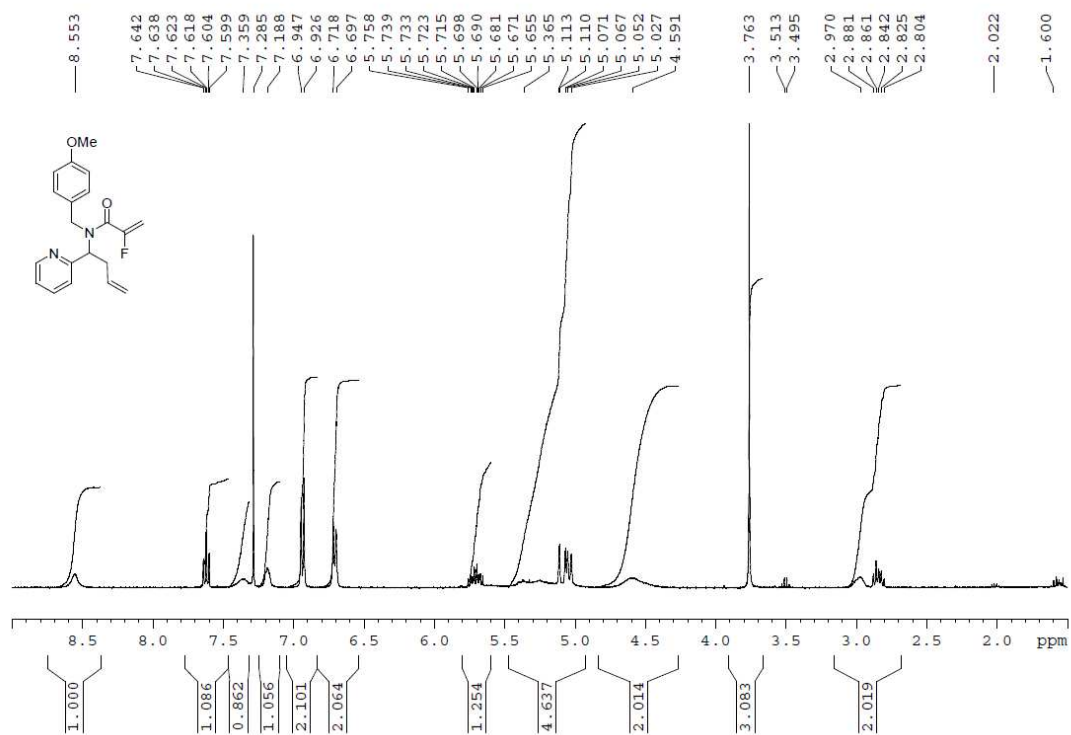
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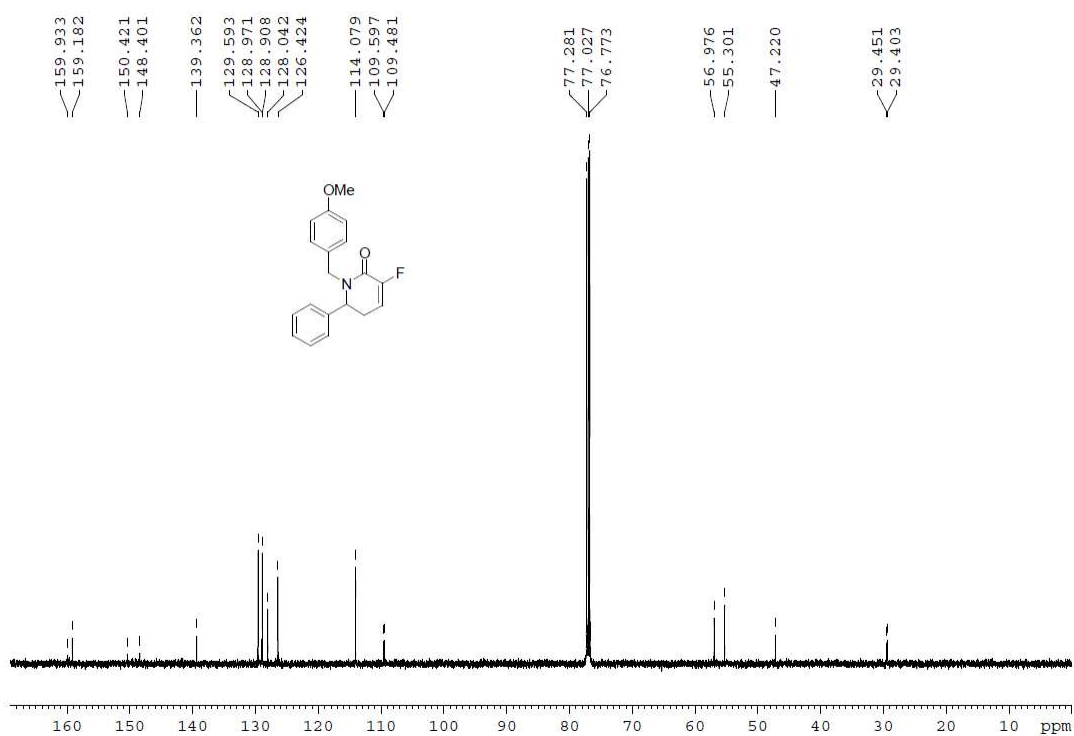
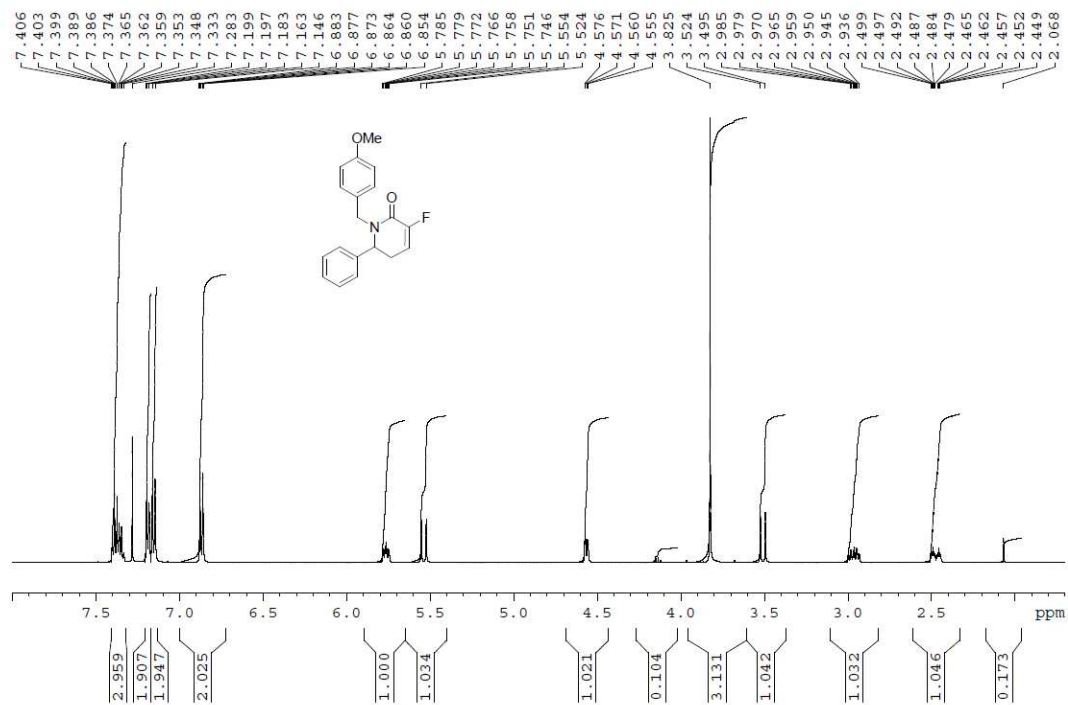
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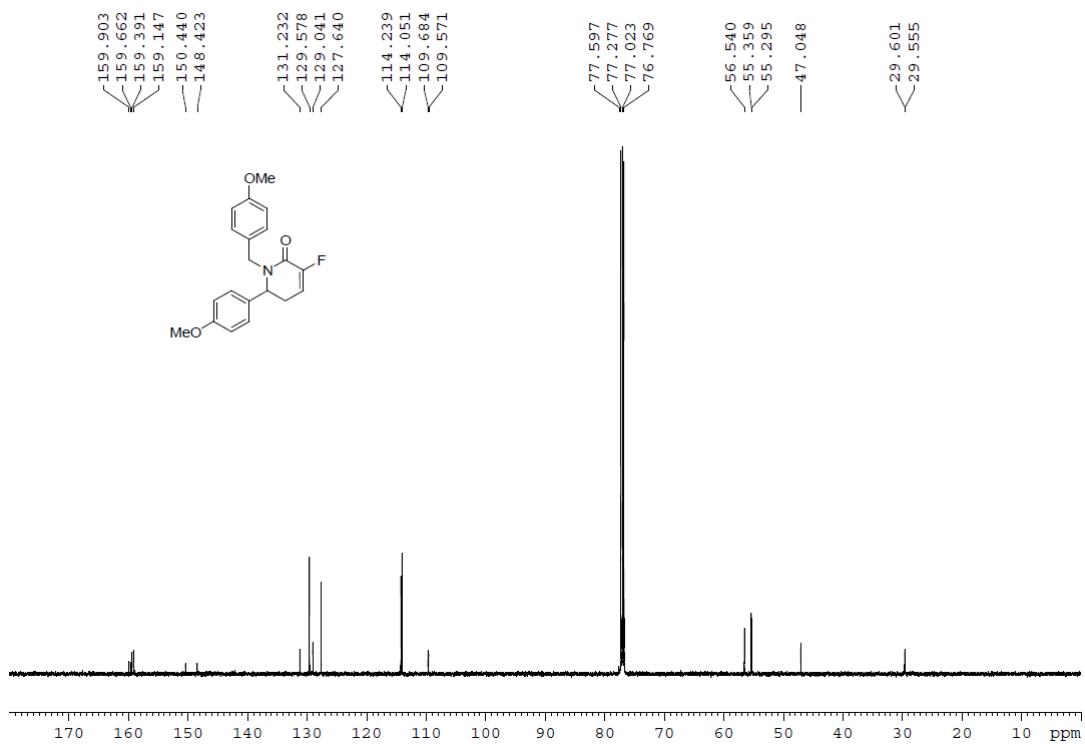
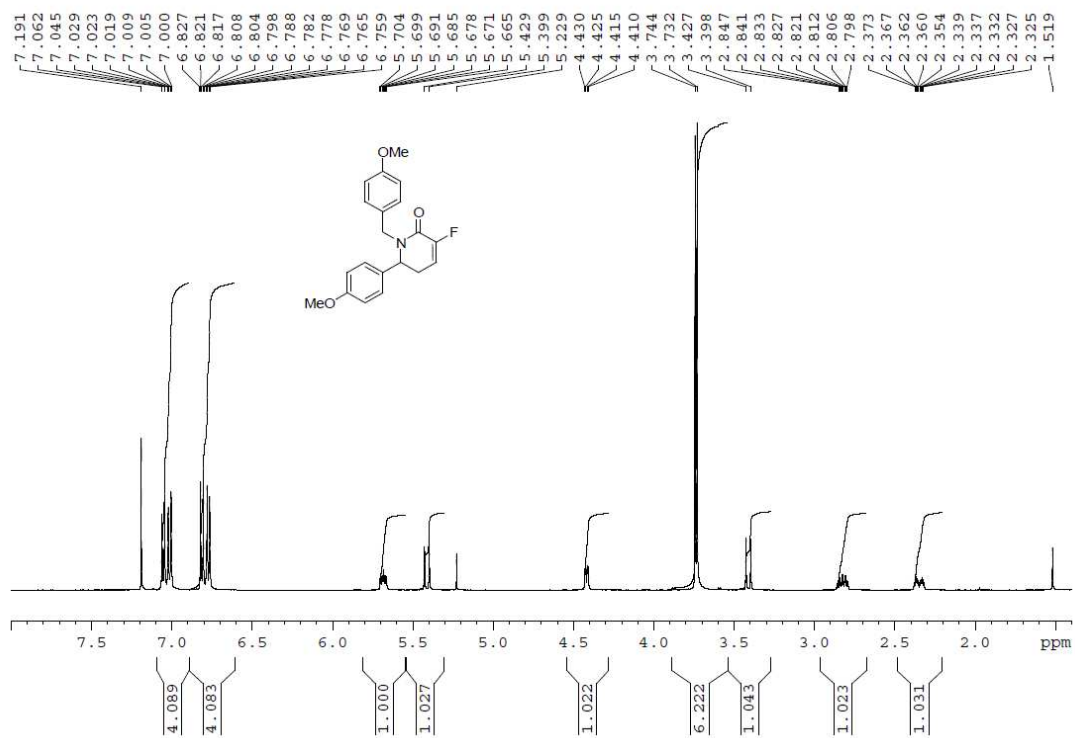
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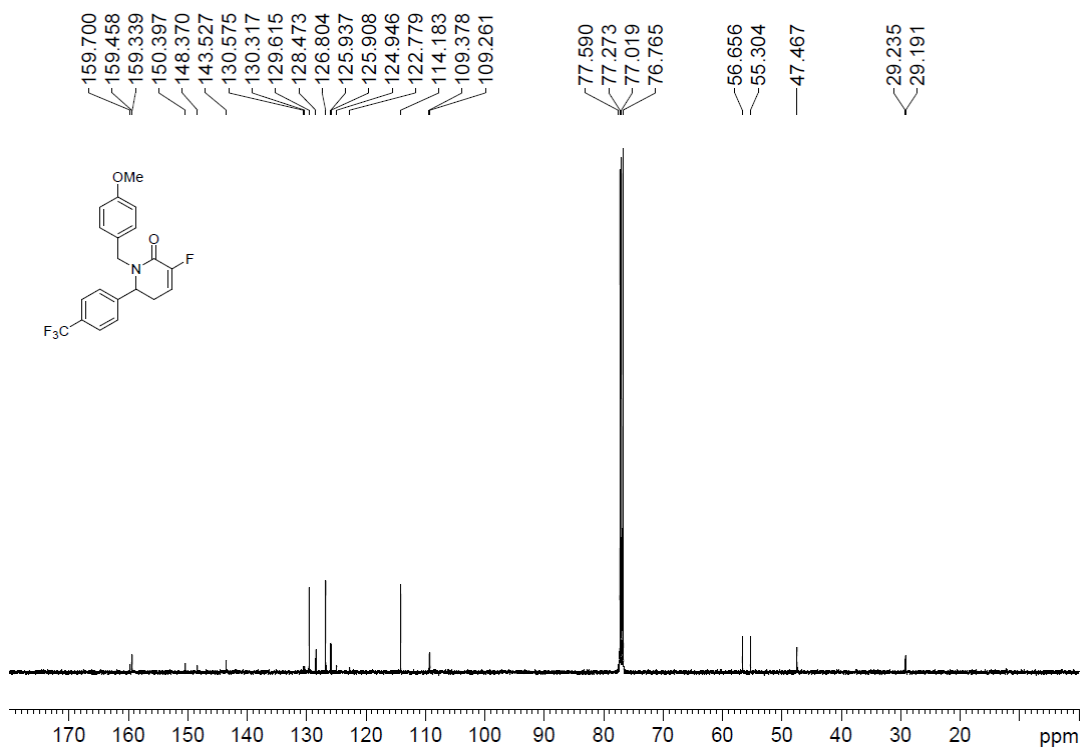
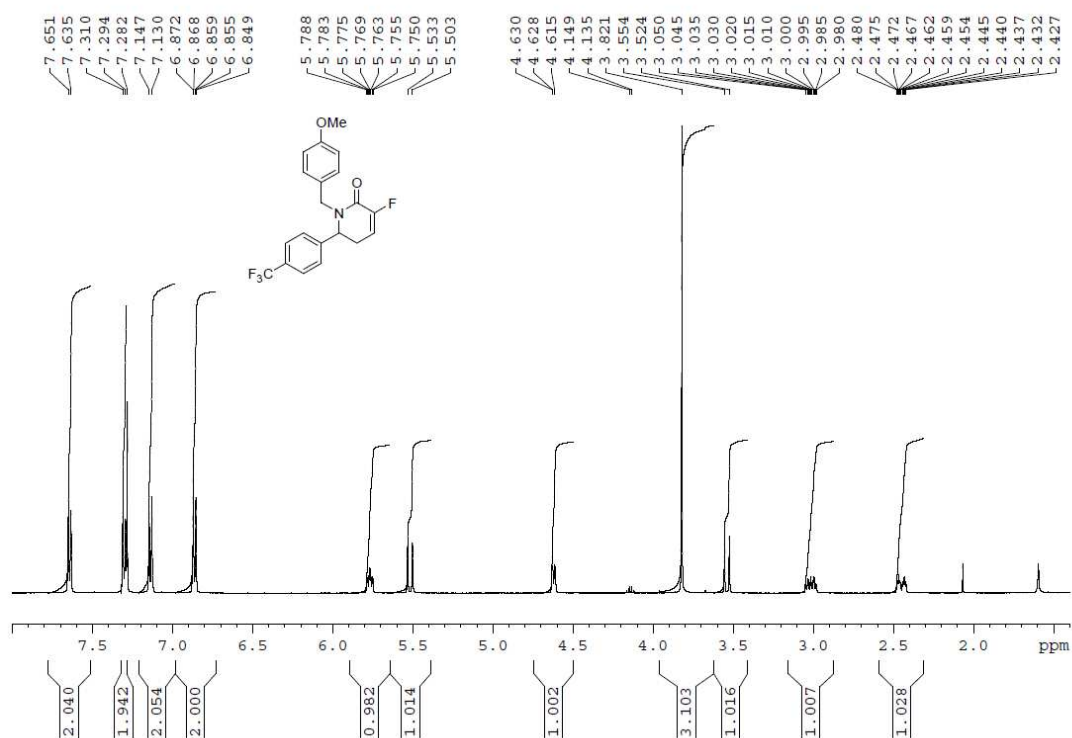
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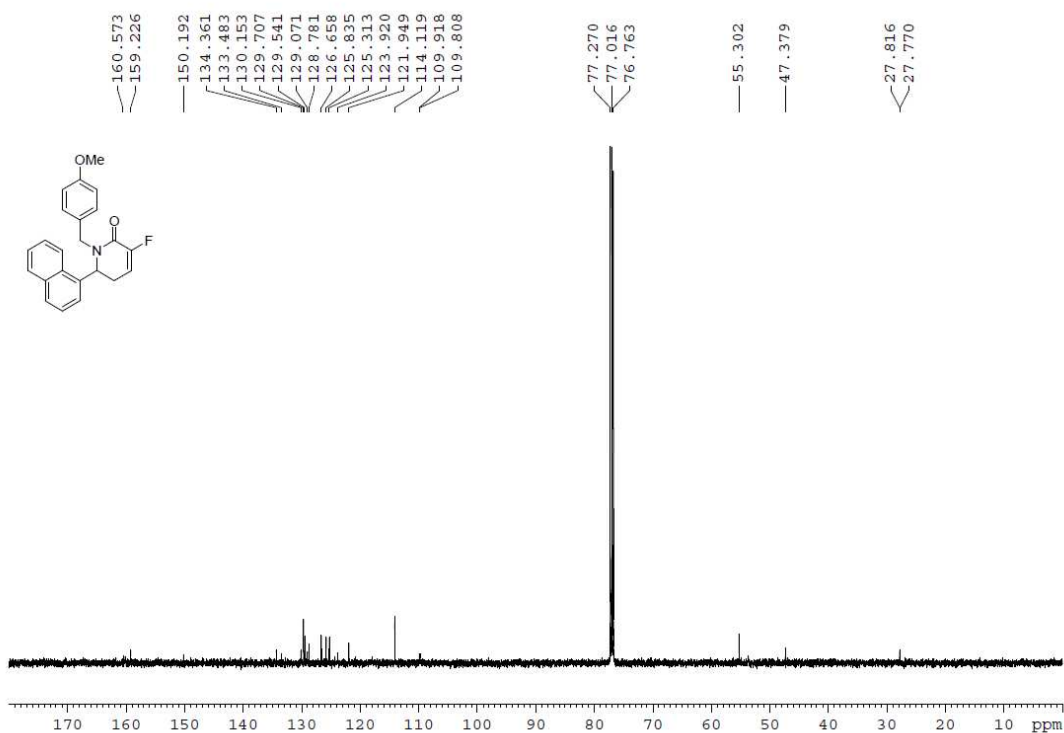
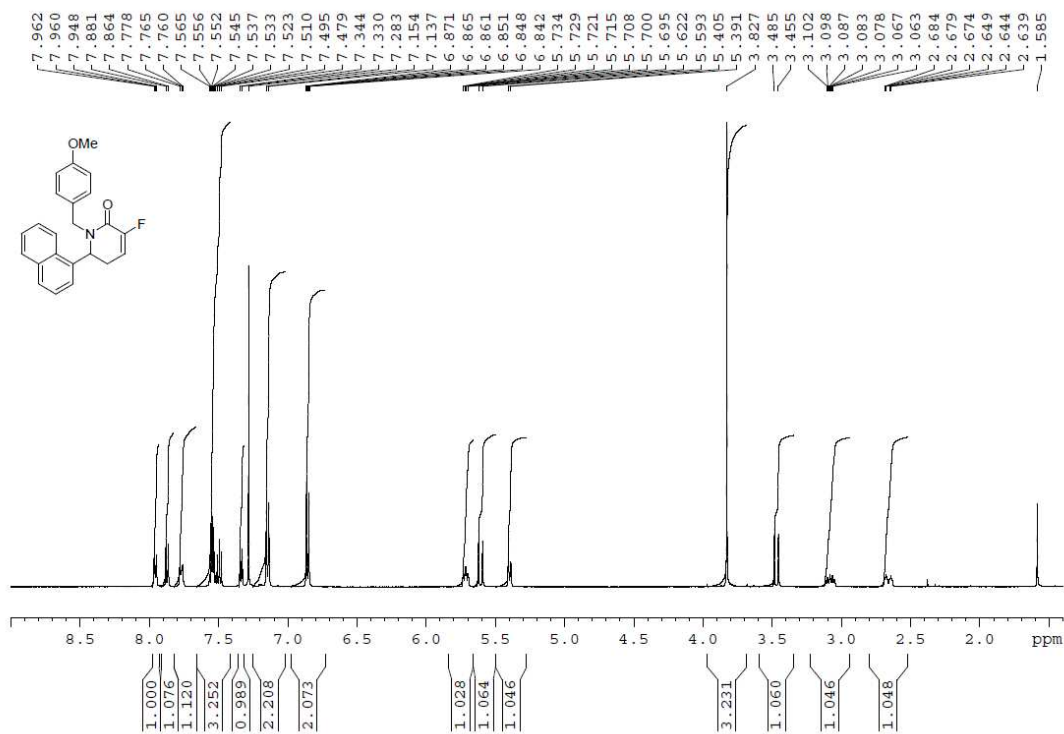
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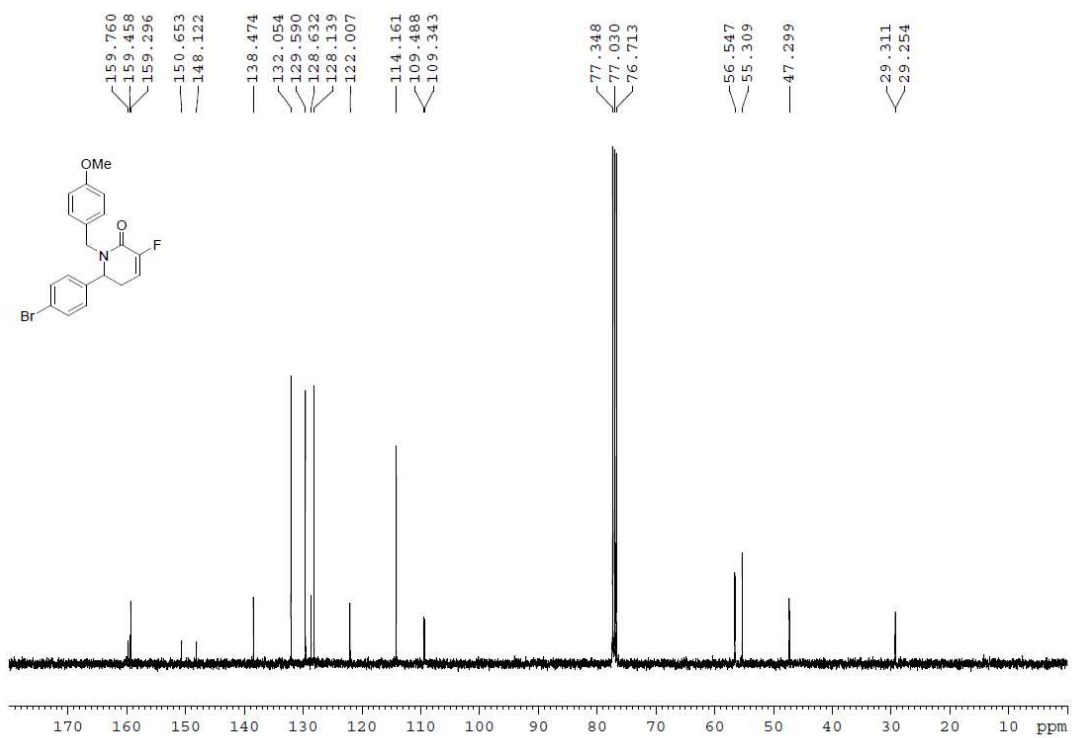
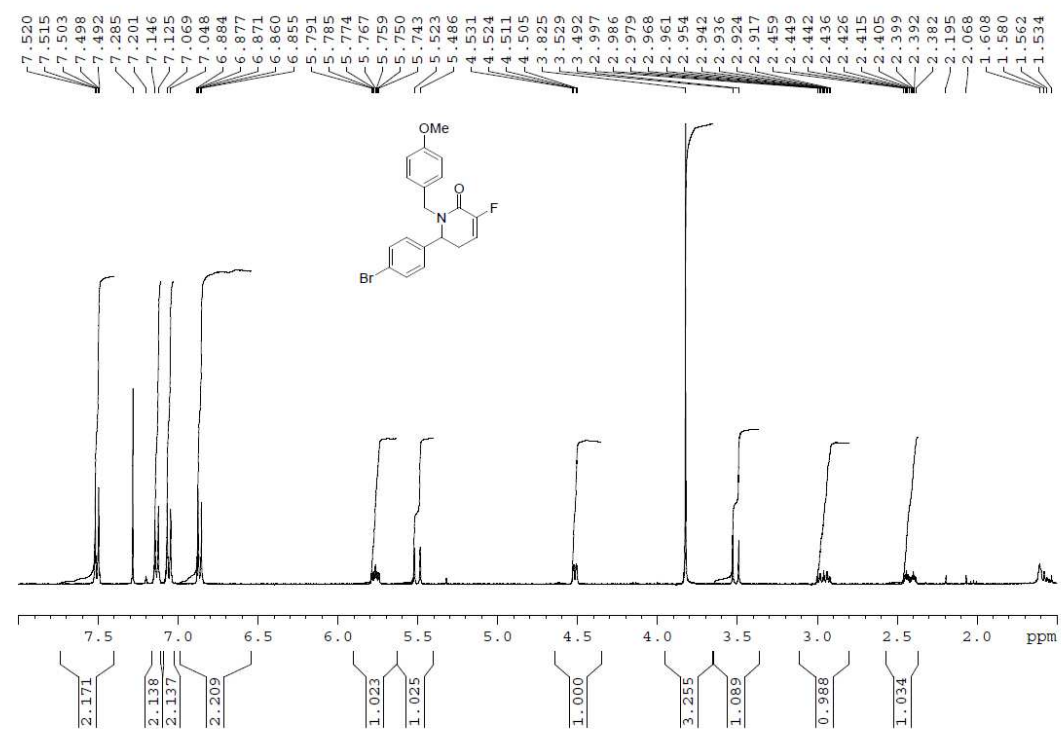
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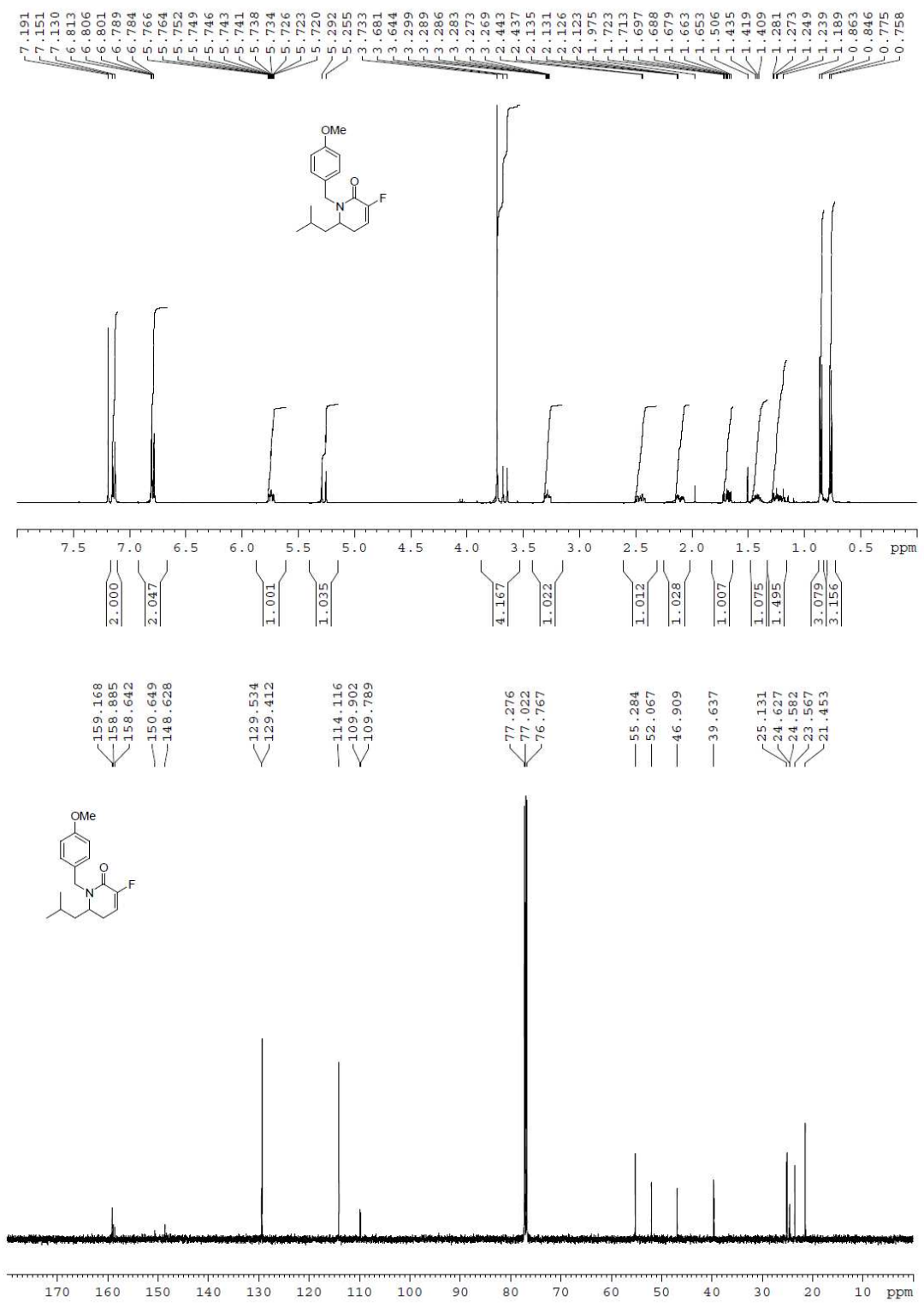
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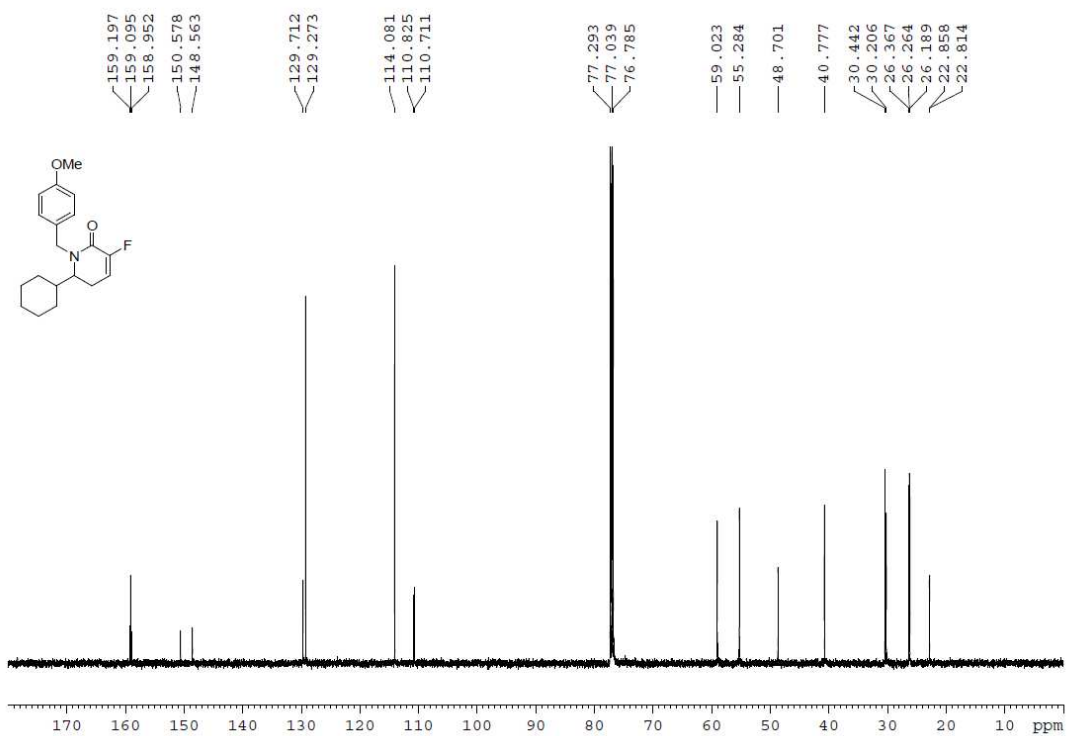
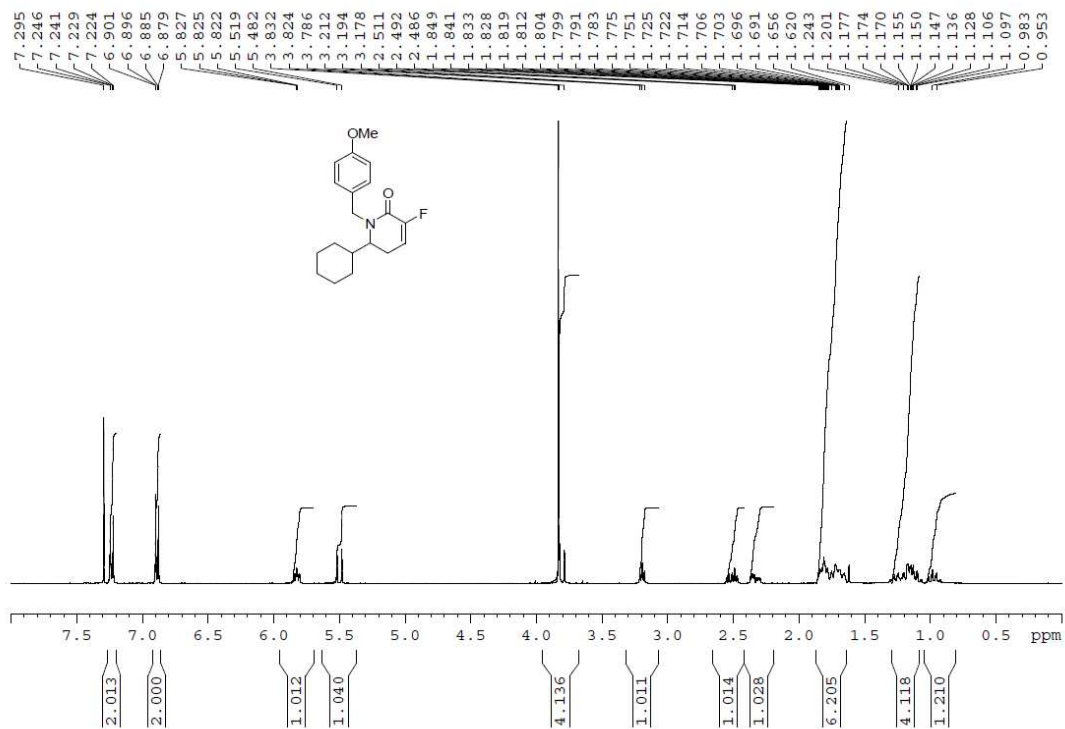
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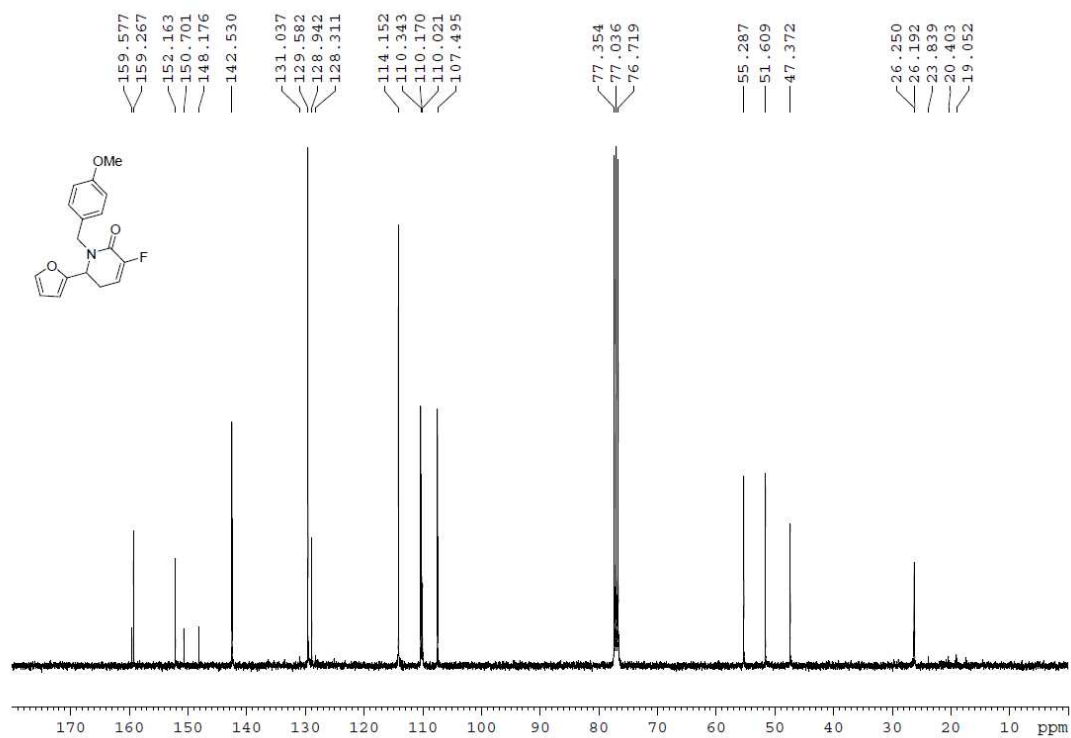
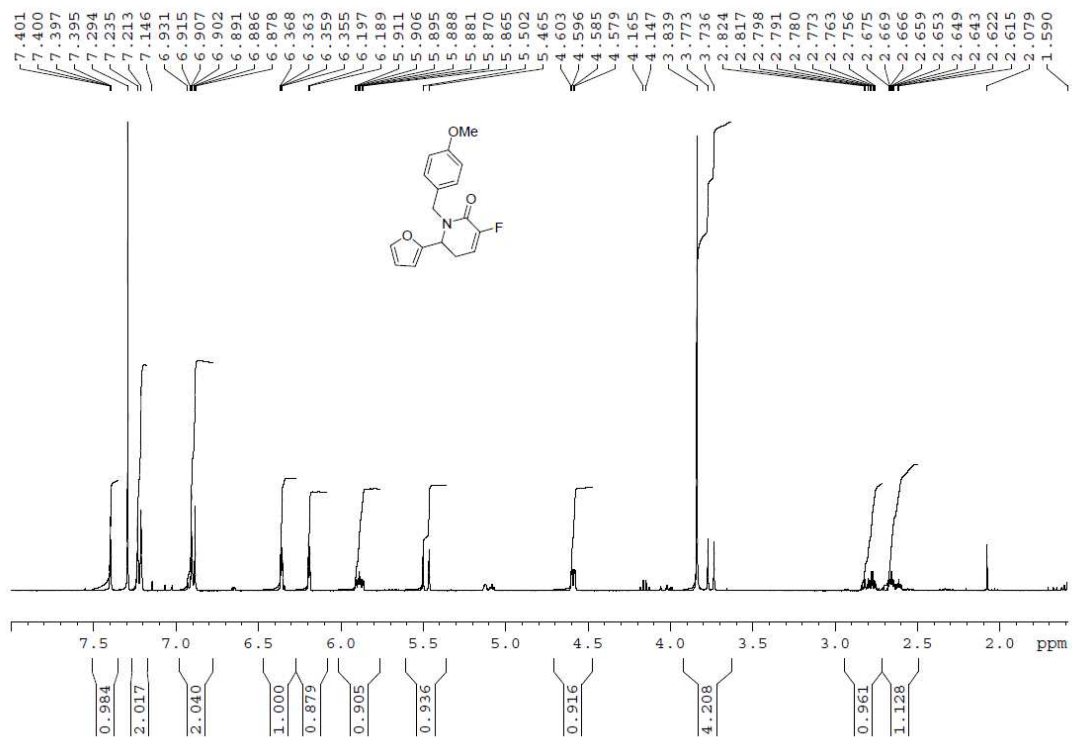
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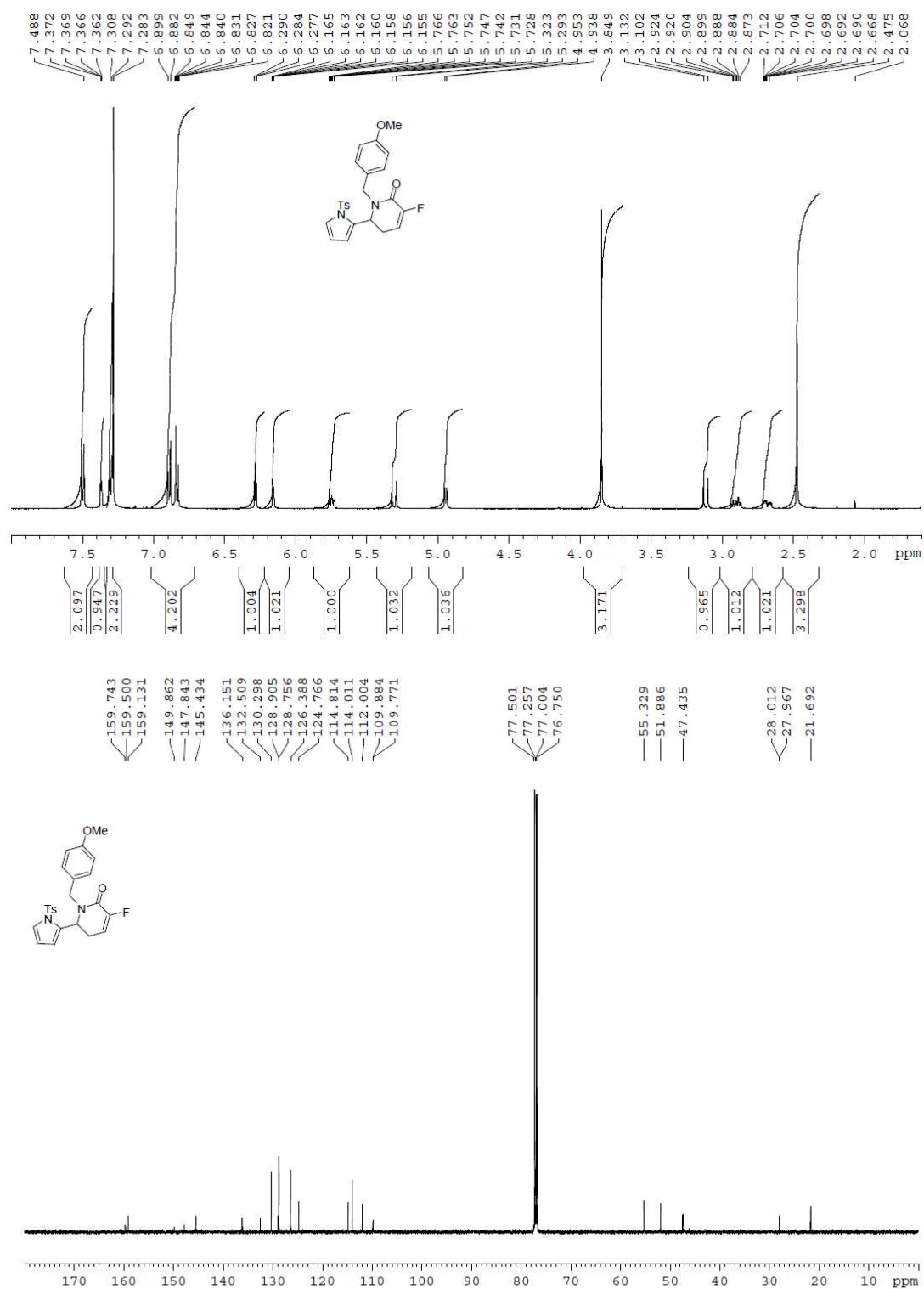
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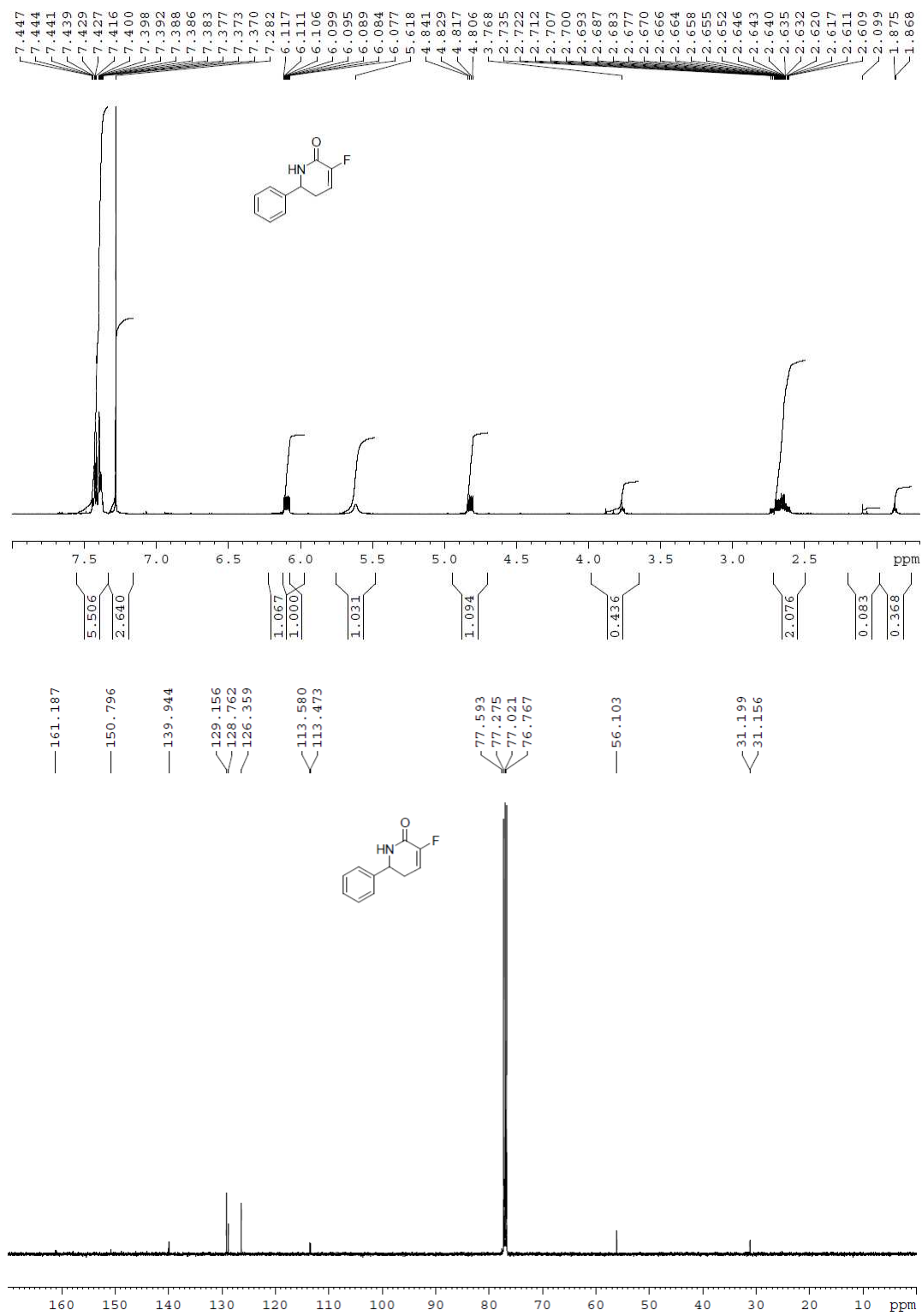
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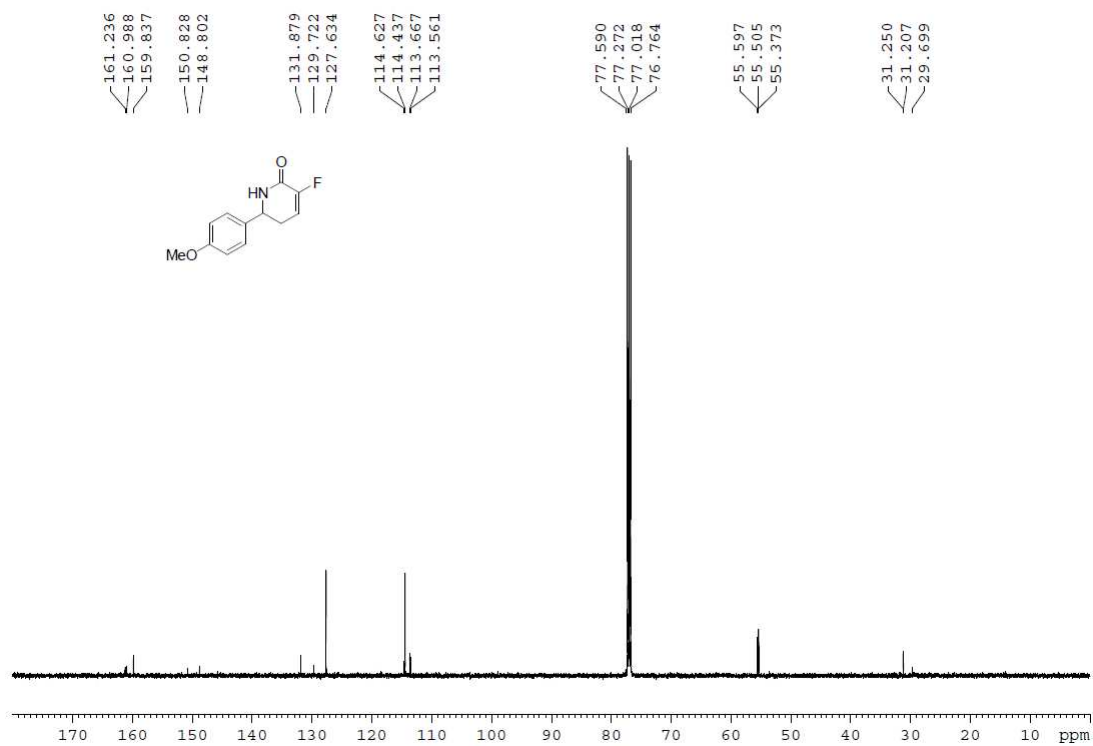
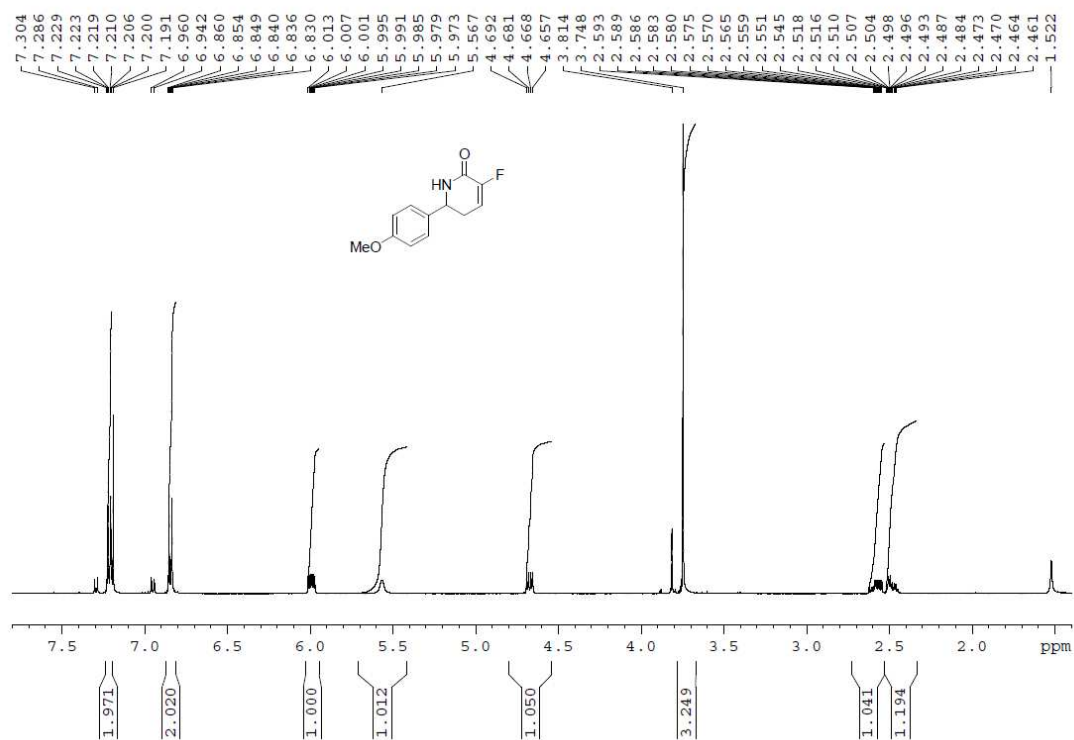
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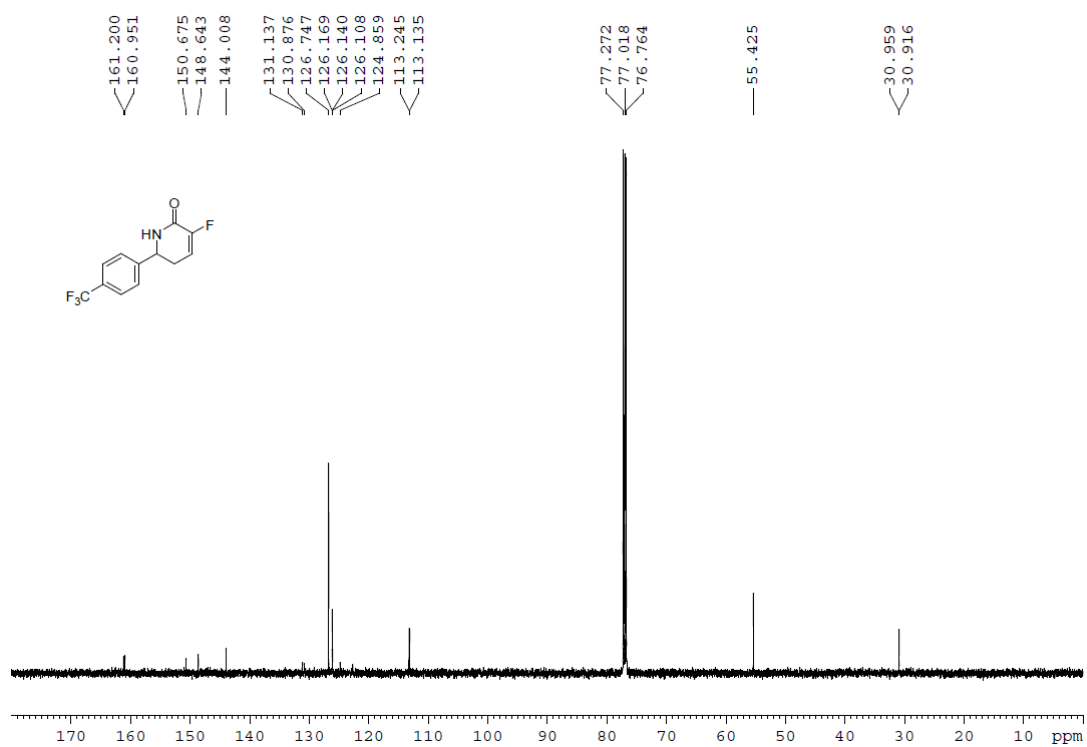
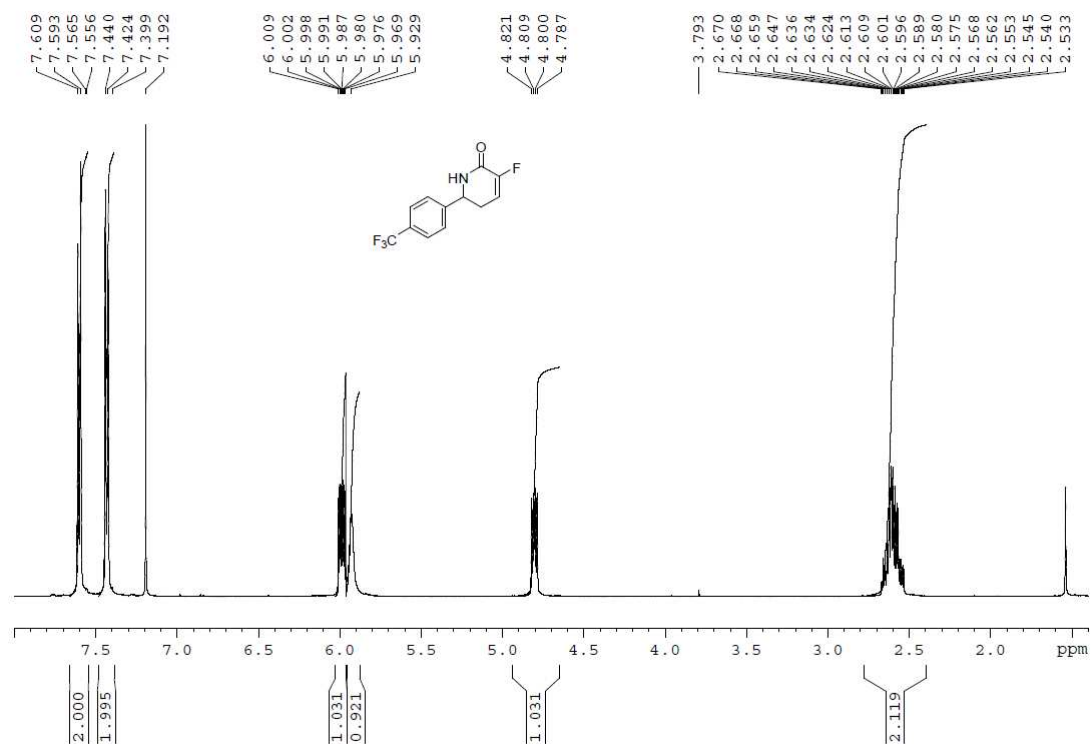
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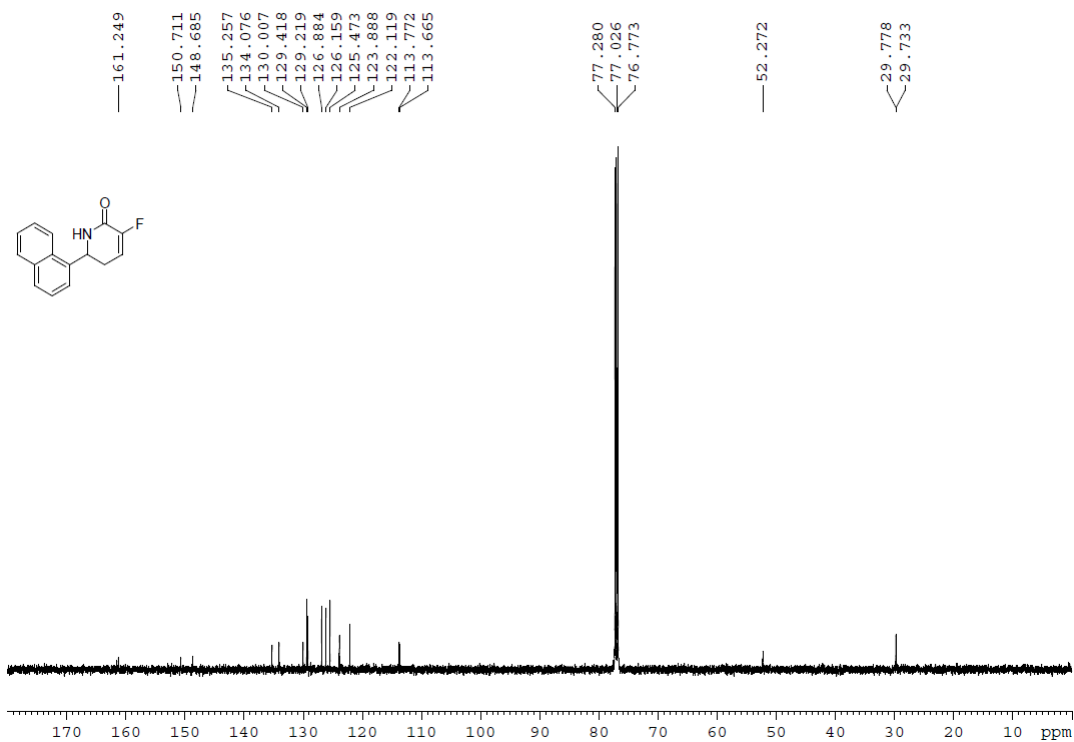
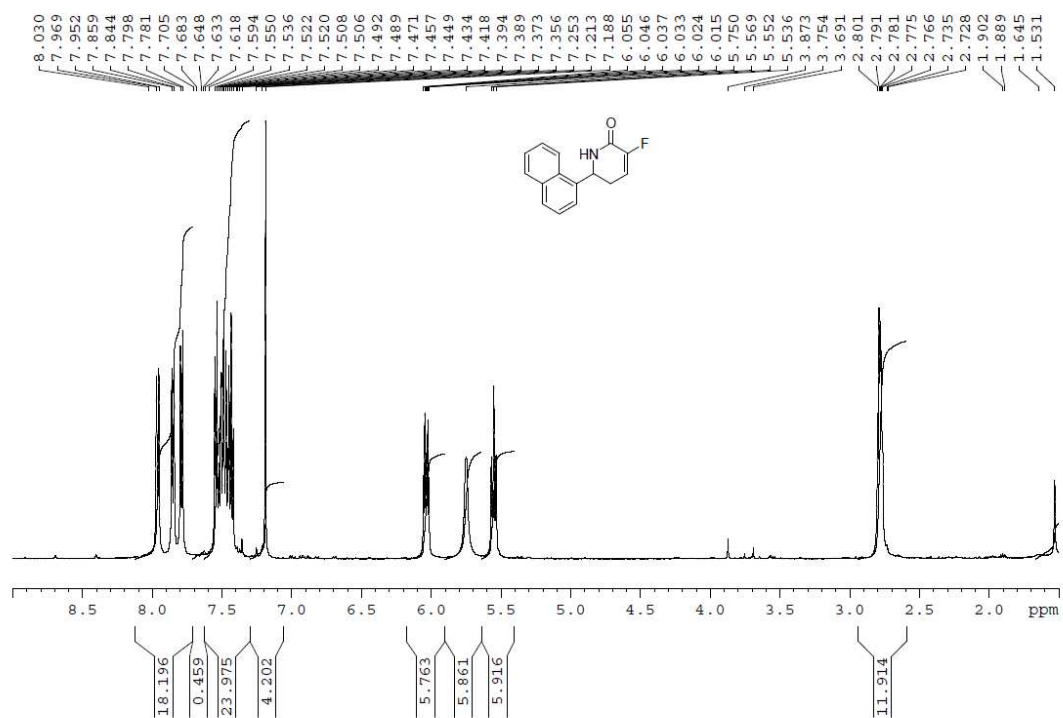
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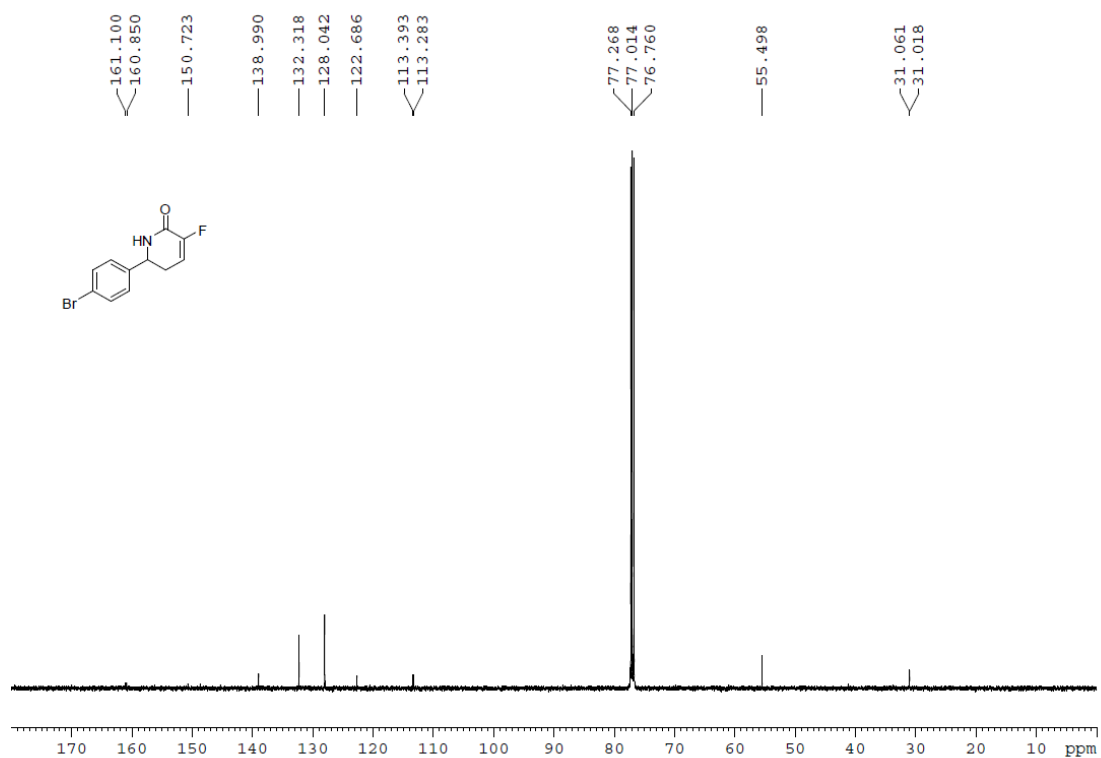
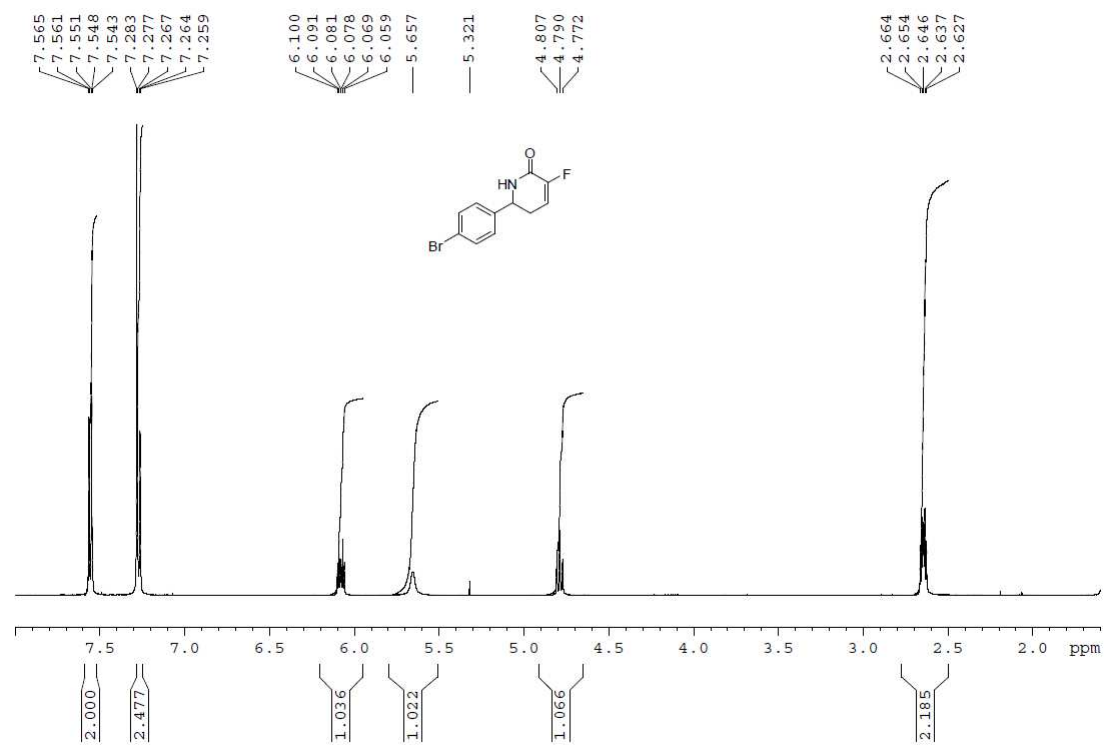
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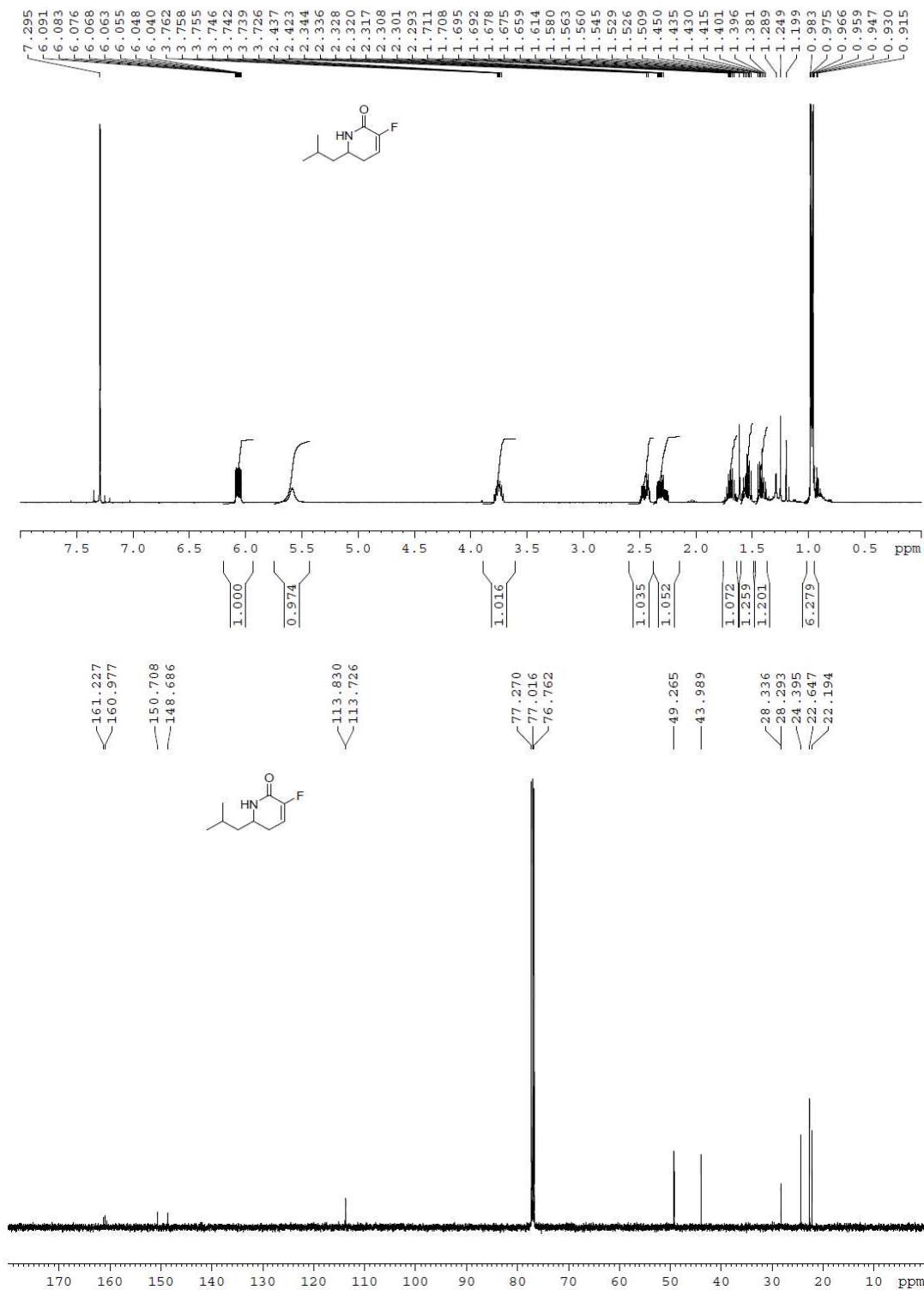
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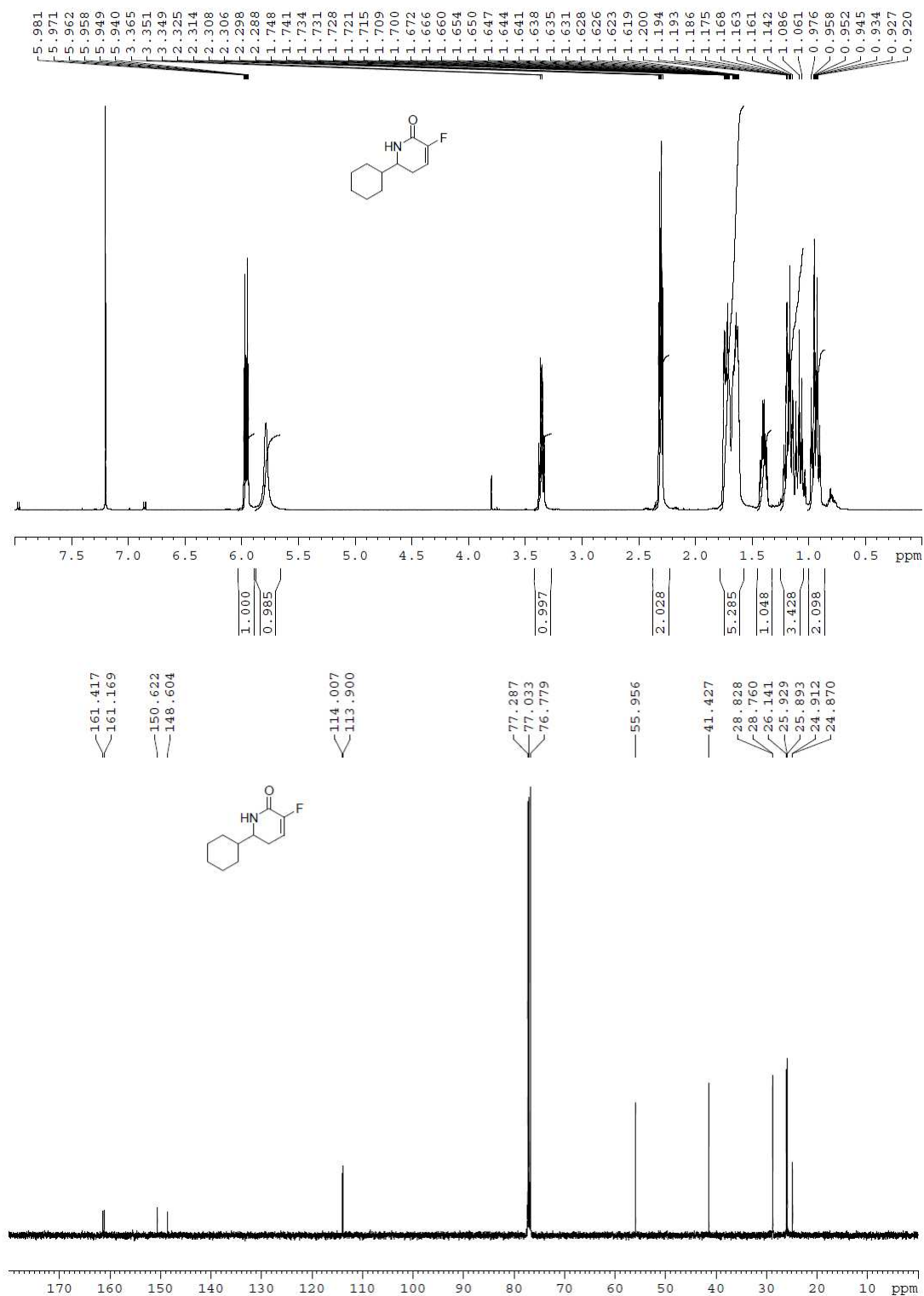
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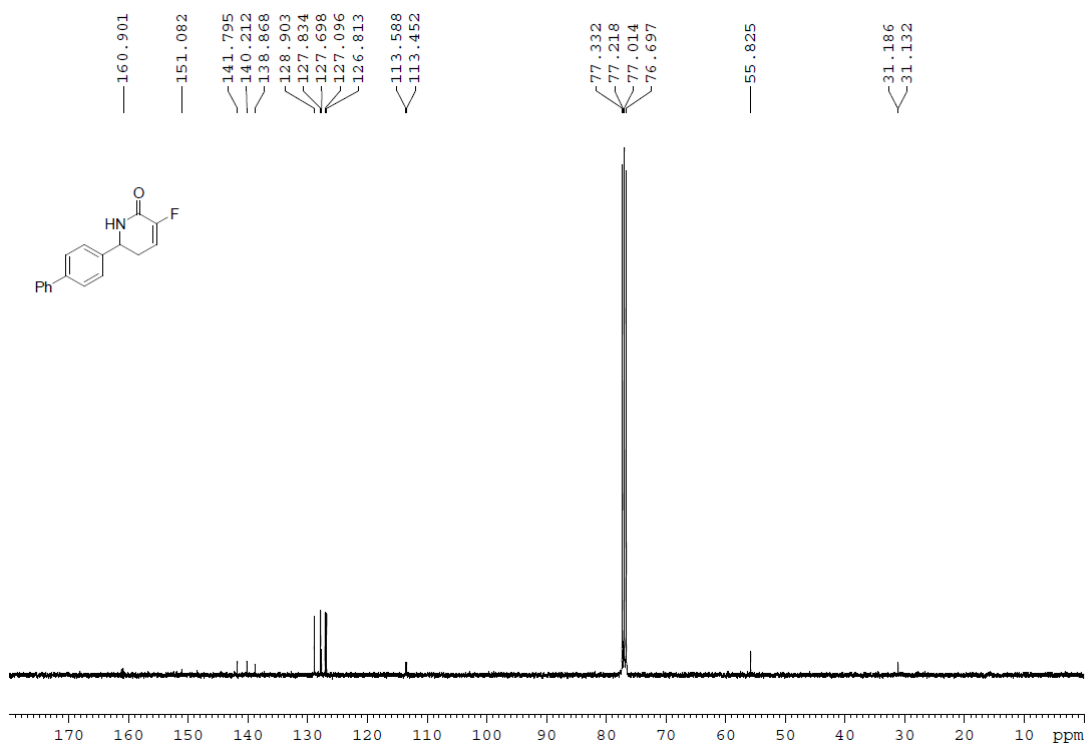
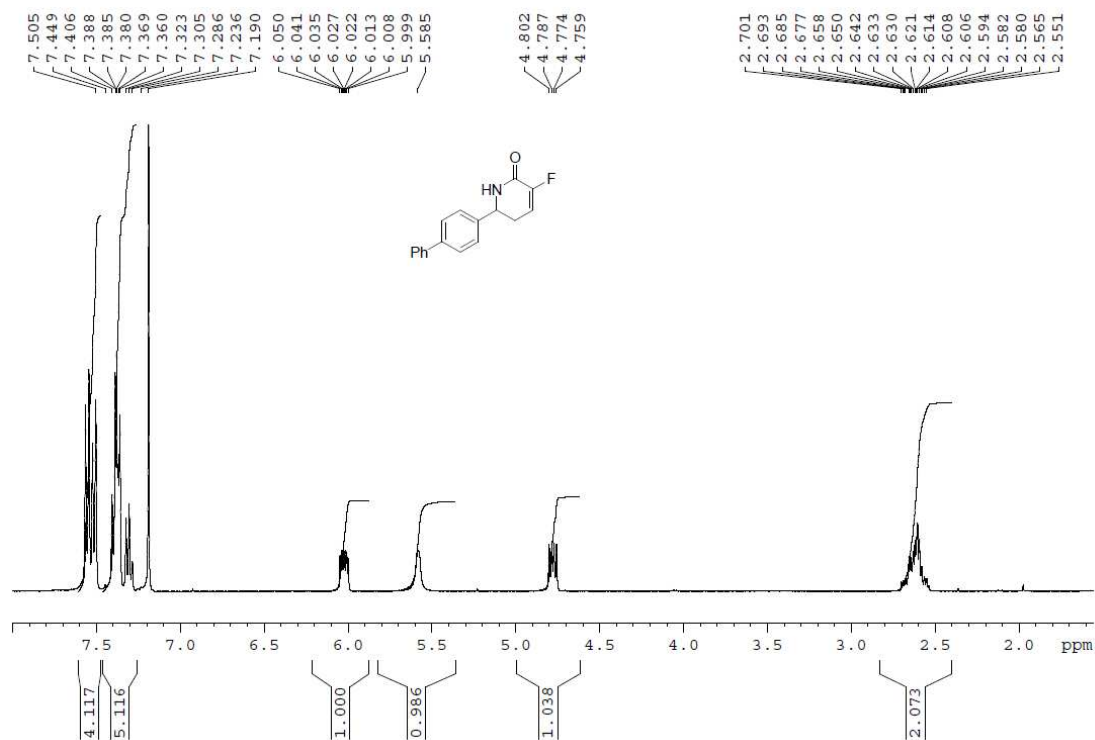
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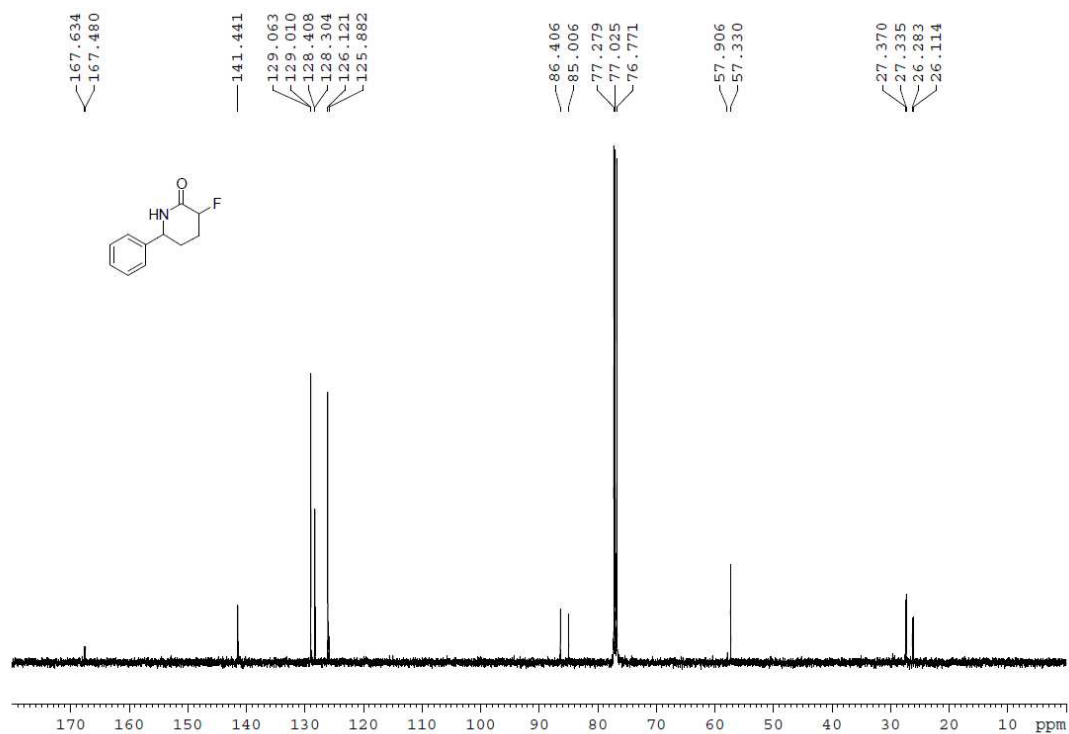
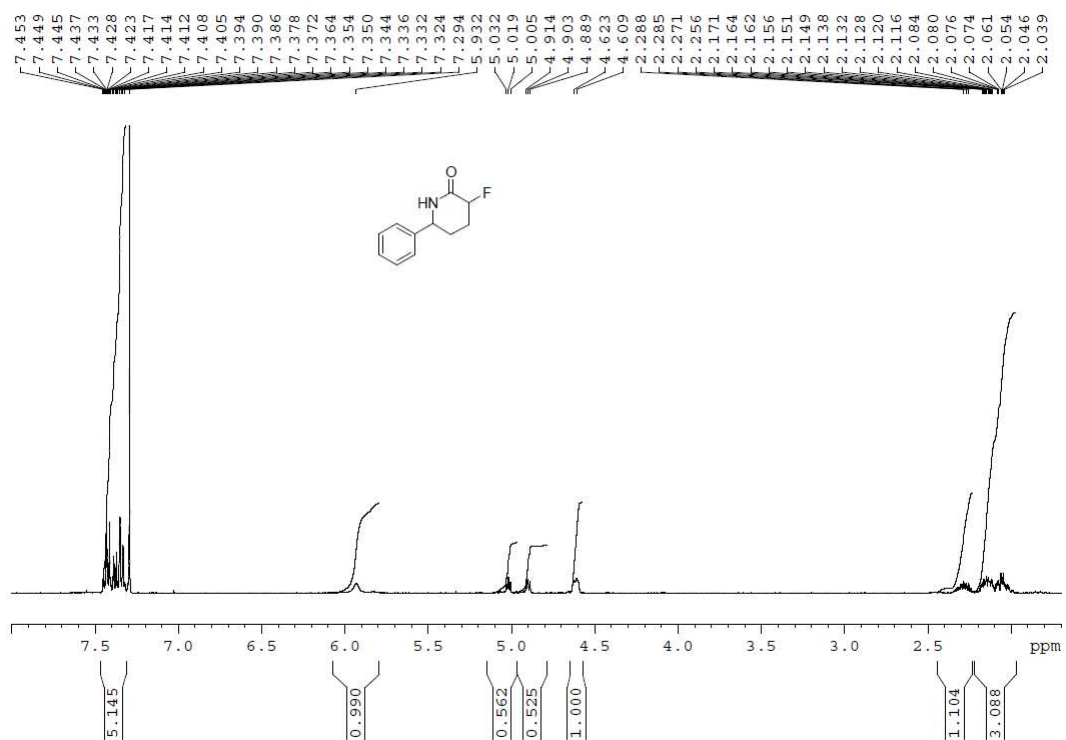
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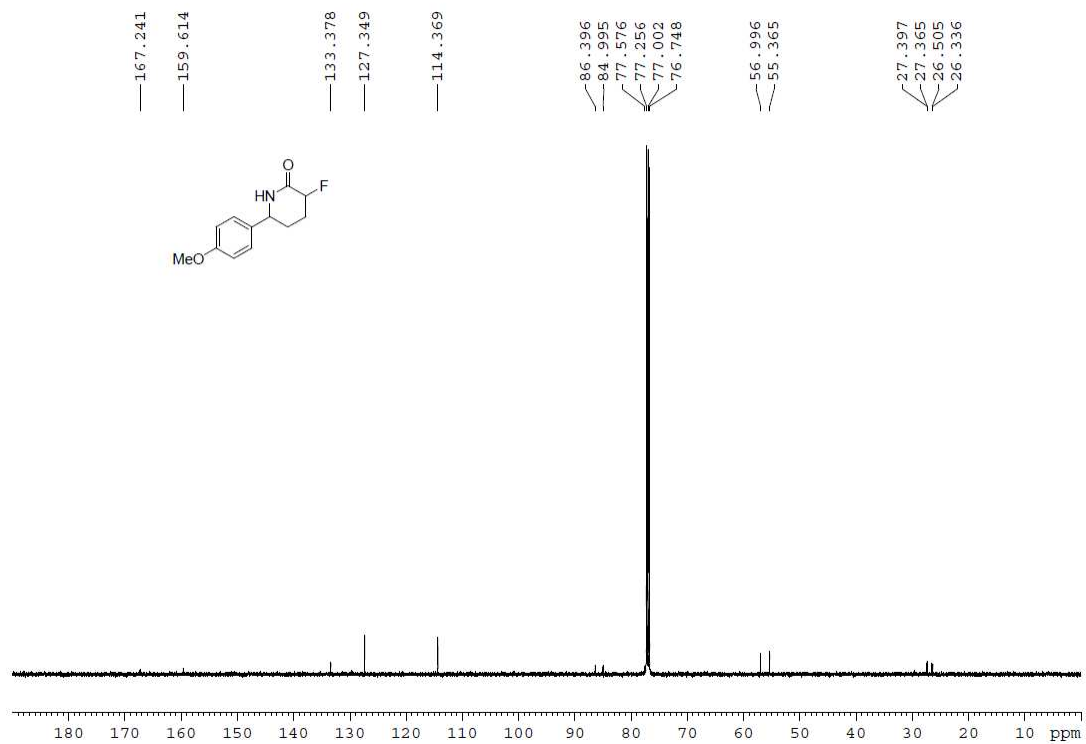
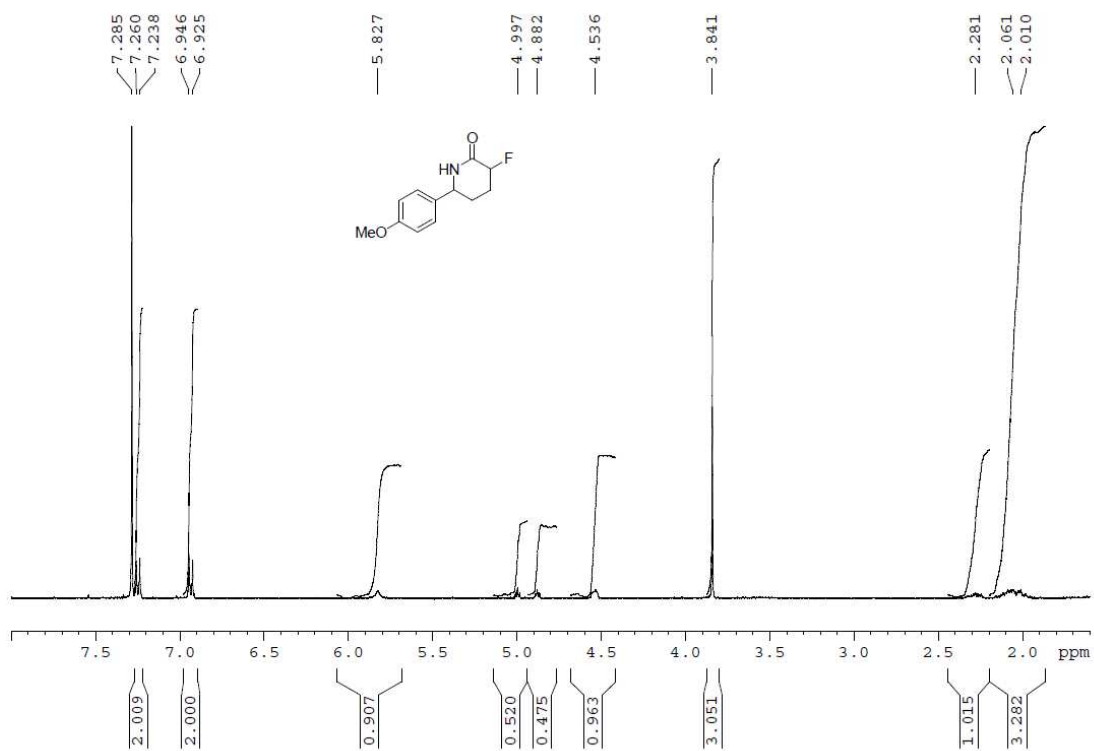
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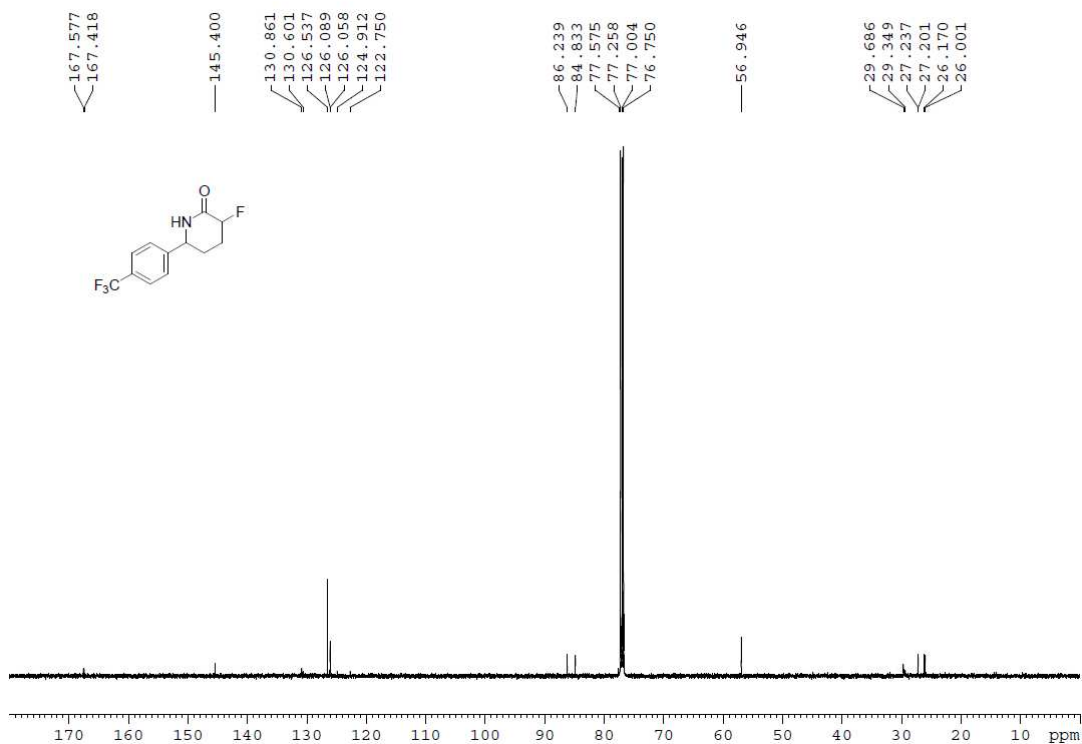
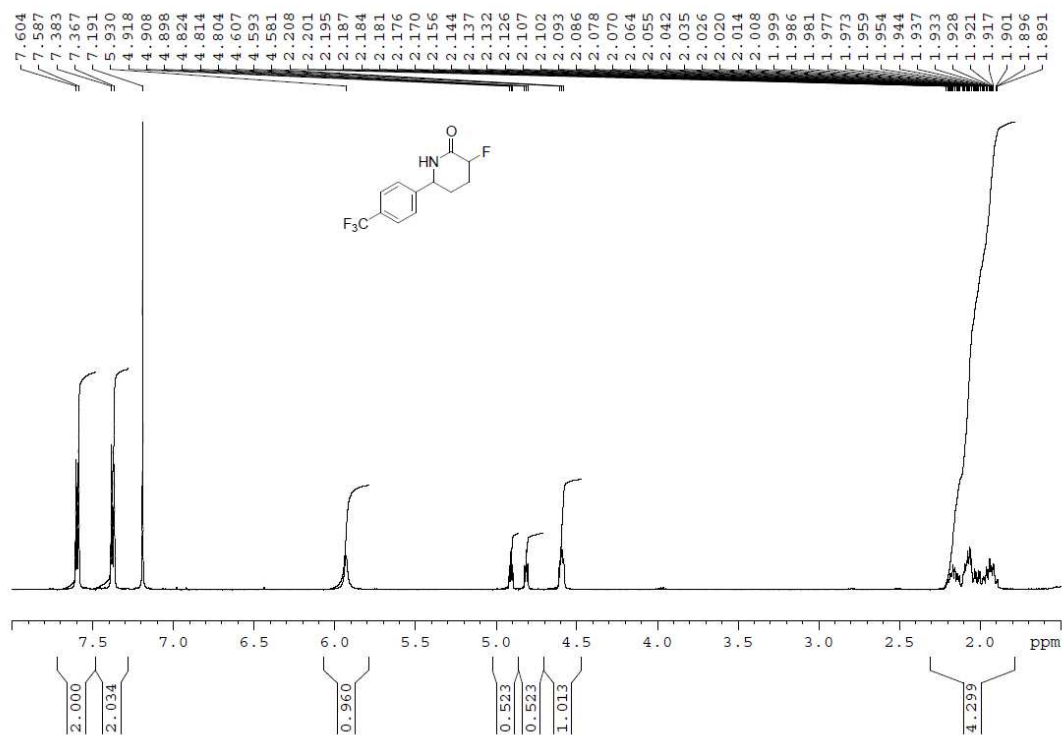
3-Fluoro-6-phenyl-piperidin-2-one, 11a.



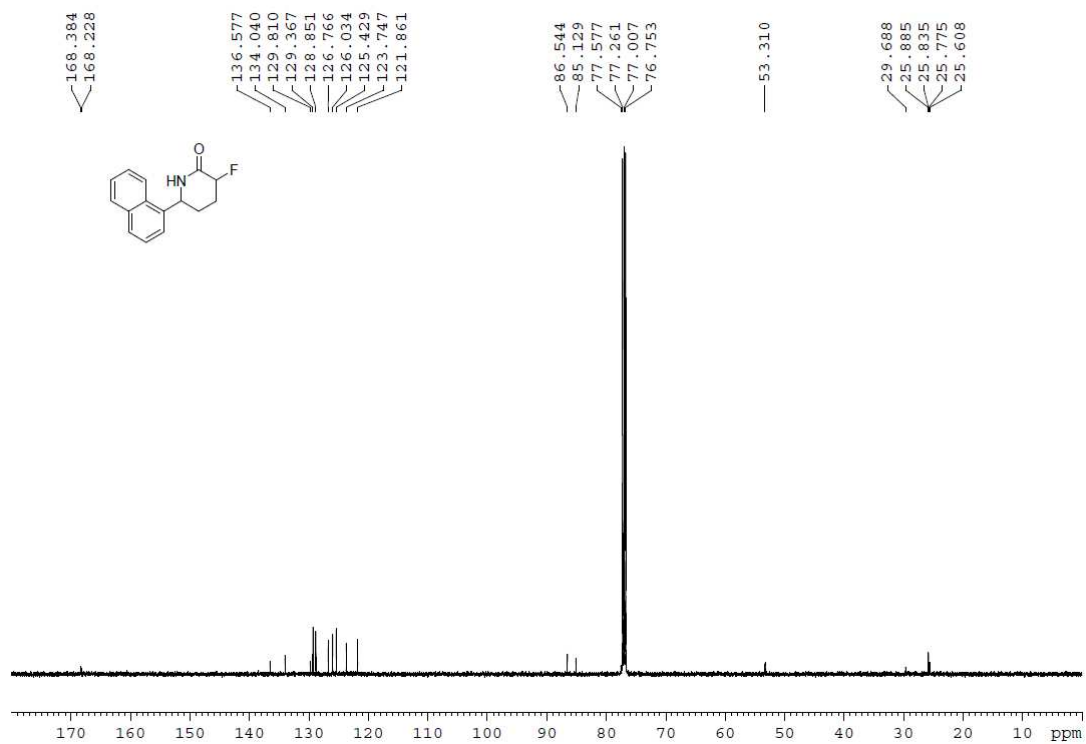
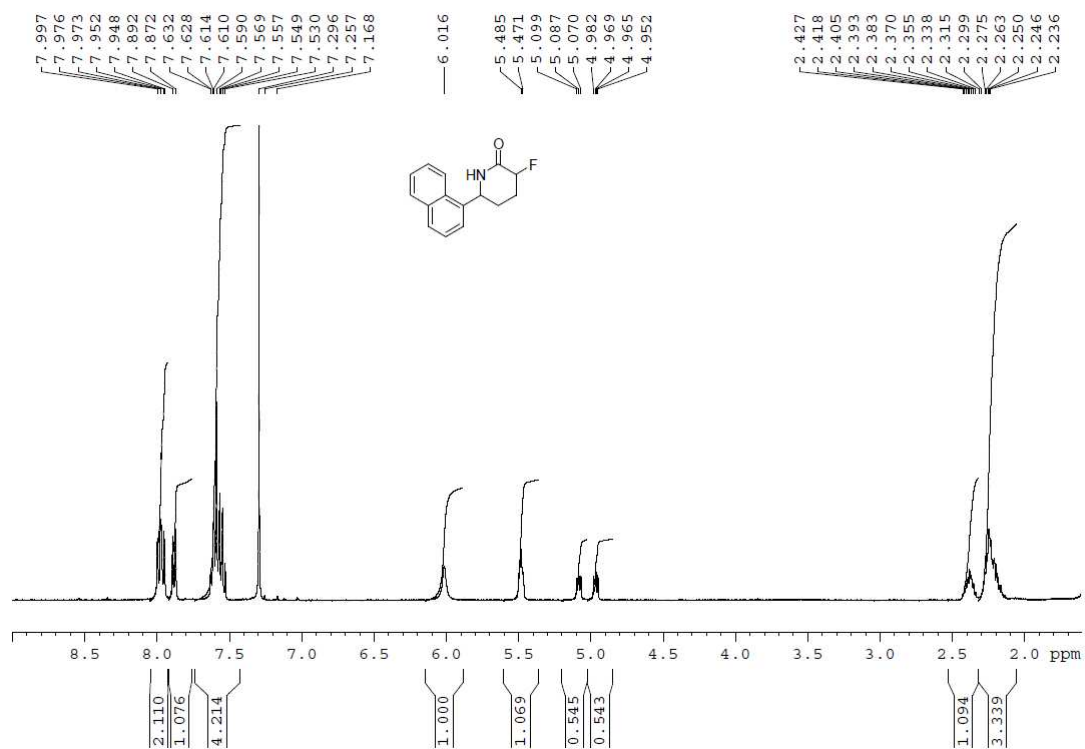
3-Fluoro-6-(4'-methoxyphenyl)-piperidin-2-one, 11b.



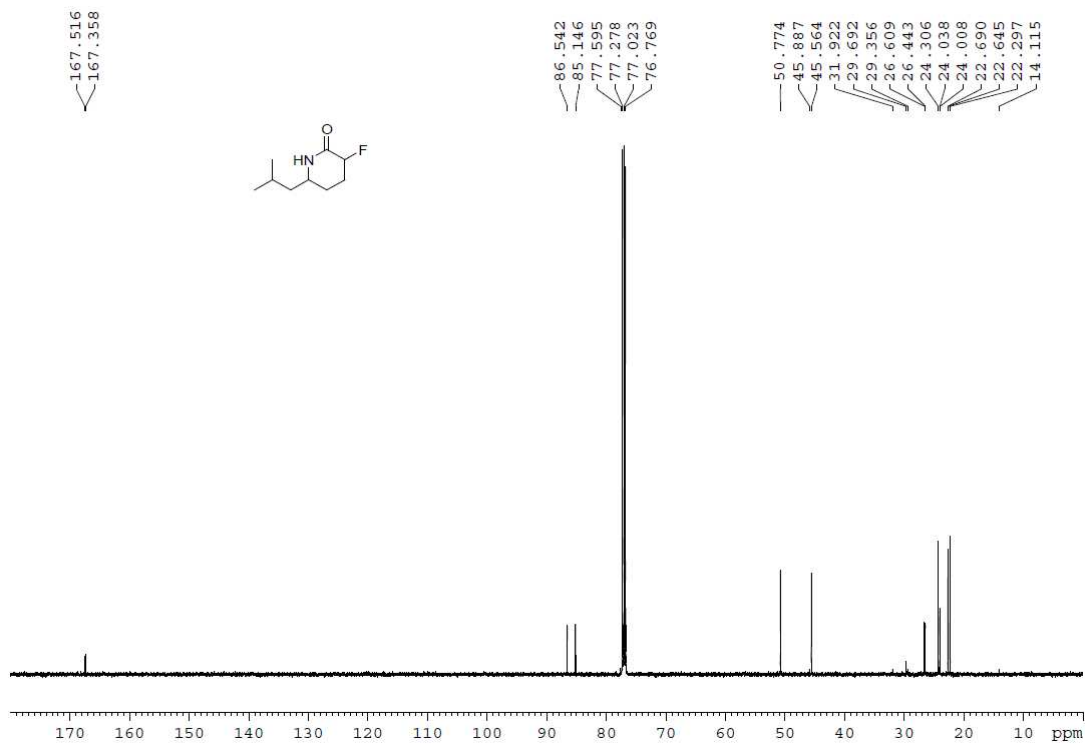
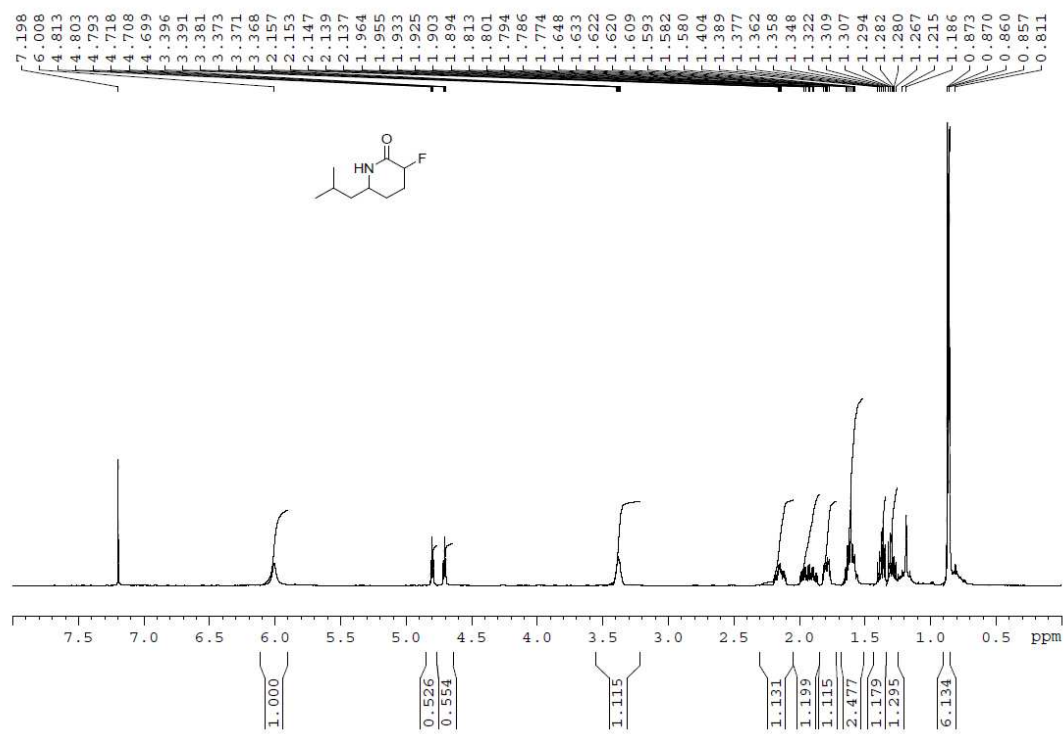
3-Fluoro-6-(4'-trifluoromethanophenyl)-piperidin-2-one, 11c.



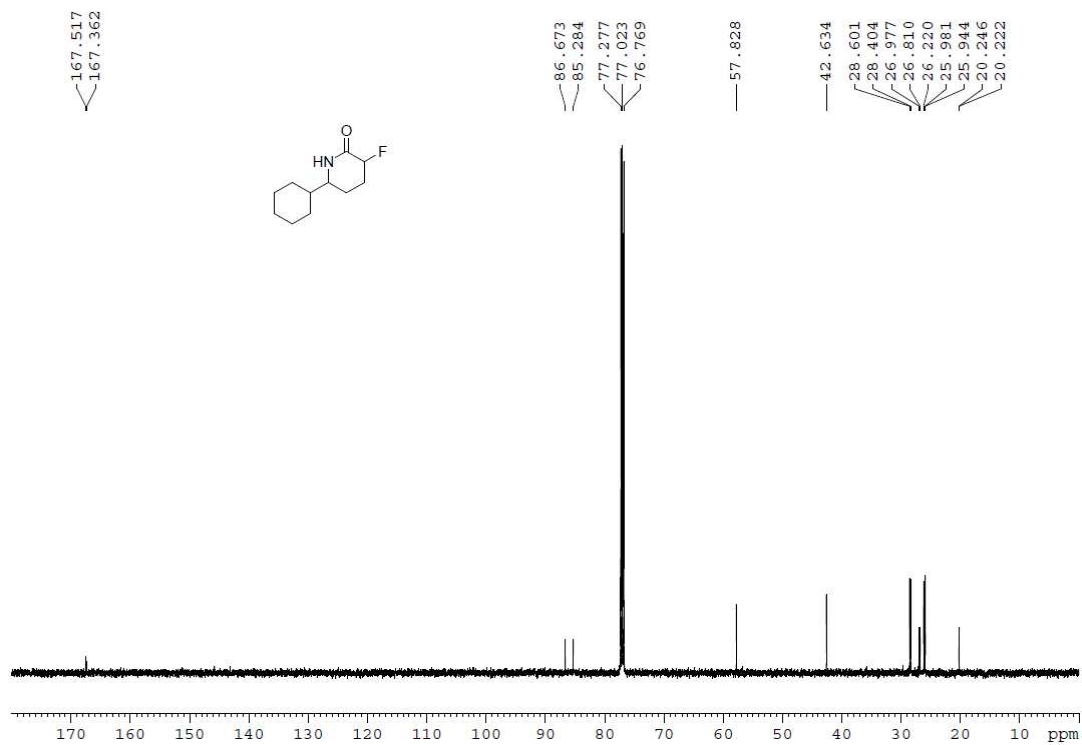
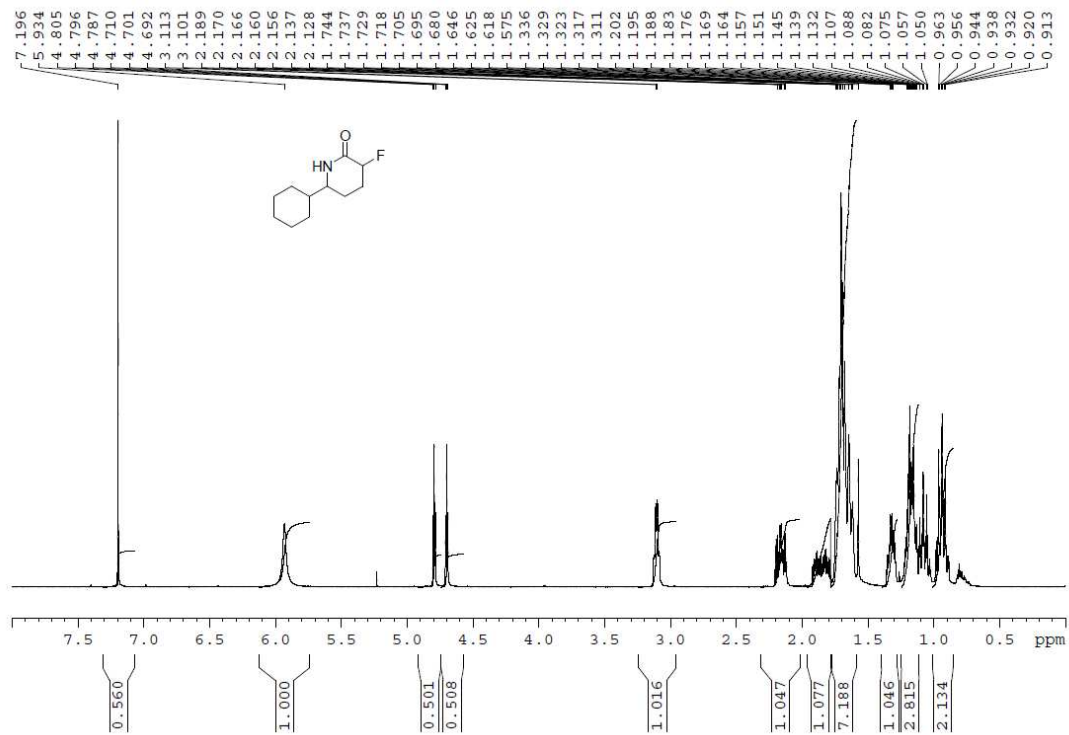
3-Fluoro-6-(naphthalen-1-yl)-piperidin-2-one, 11d.



3-Fluoro-6-isobutyl-piperidin-2-one, 11f.



3-Fluoro-6-cyclohexane-piperidin-2-one, 11g.



3-Fluoro-6-(4'-phenylphenyl)-piperidin-2-one, 13.

