

Electronic Supplementary Information

Base-switched annuloselectivity of the reactions between ethyl malonyl chloride and imines

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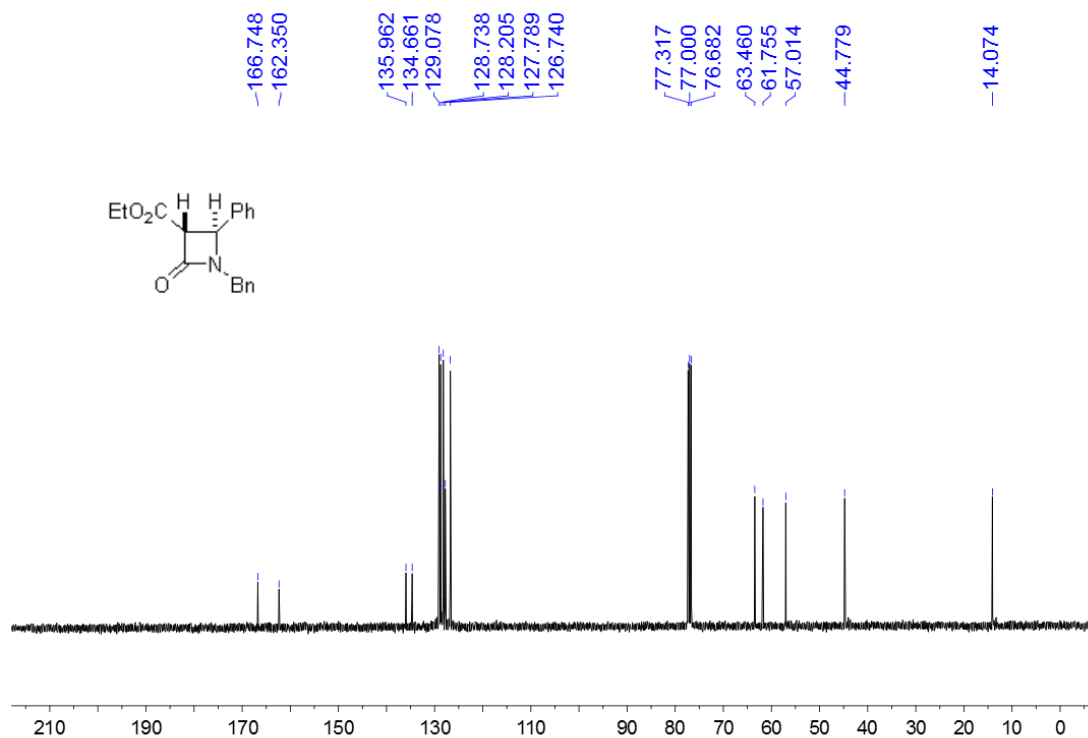
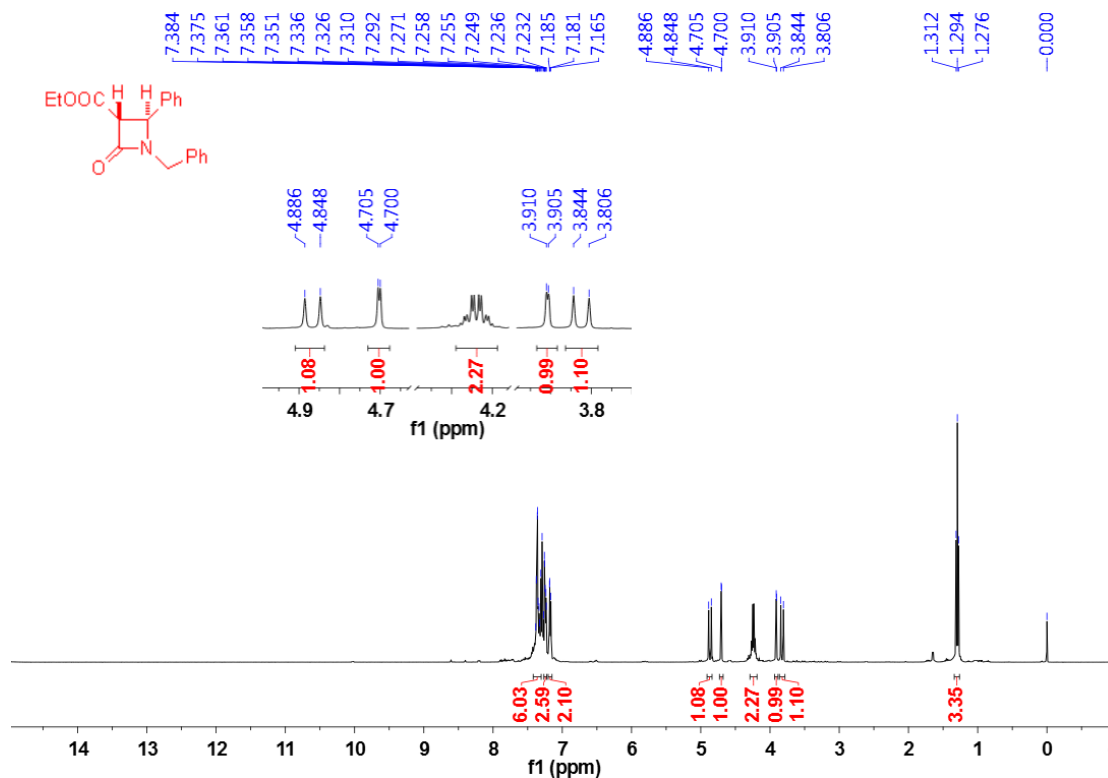
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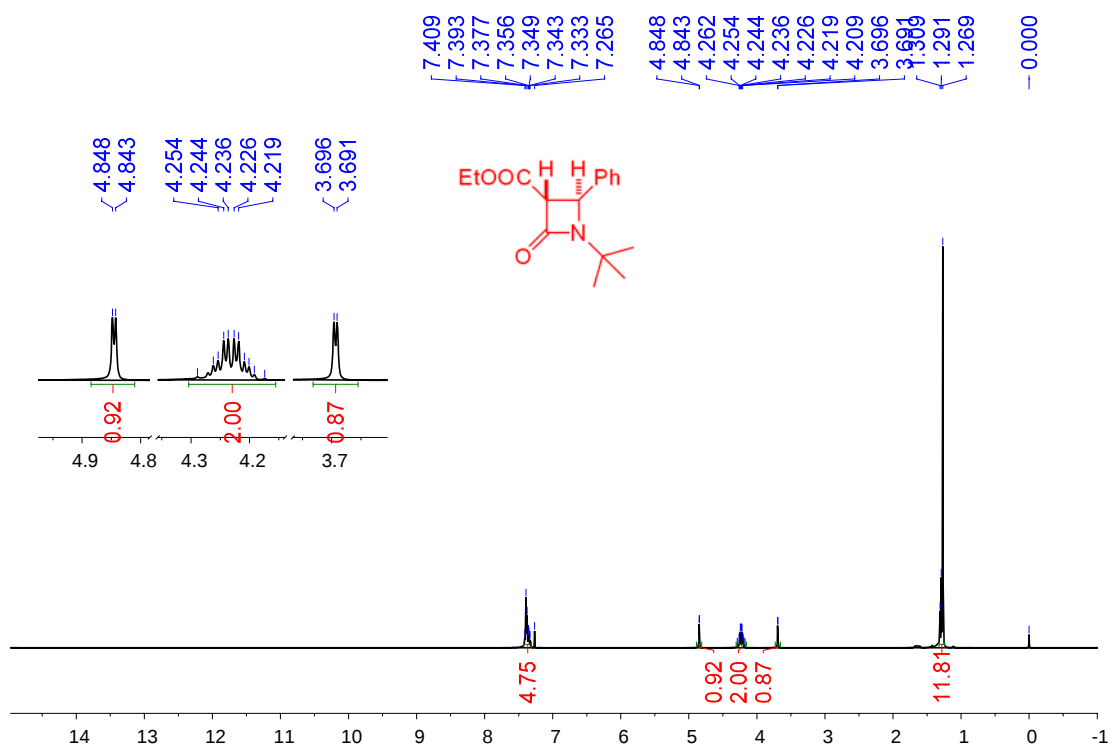
Contents.....	S1
Copies of ^1H and ^{13}C NMR spectra of products 3 and 4	S2
Representative ^1H NMR spectra of the crude reaction mixtures in Table 1.....	S20
^1H NMR spectra of the crude reaction mixtures in Table 2.....	S31
^1H NMR spectra of the crude reaction mixtures in Table 3.....	S36

Copies of ^1H and ^{13}C NMR spectra of products 3 and 4

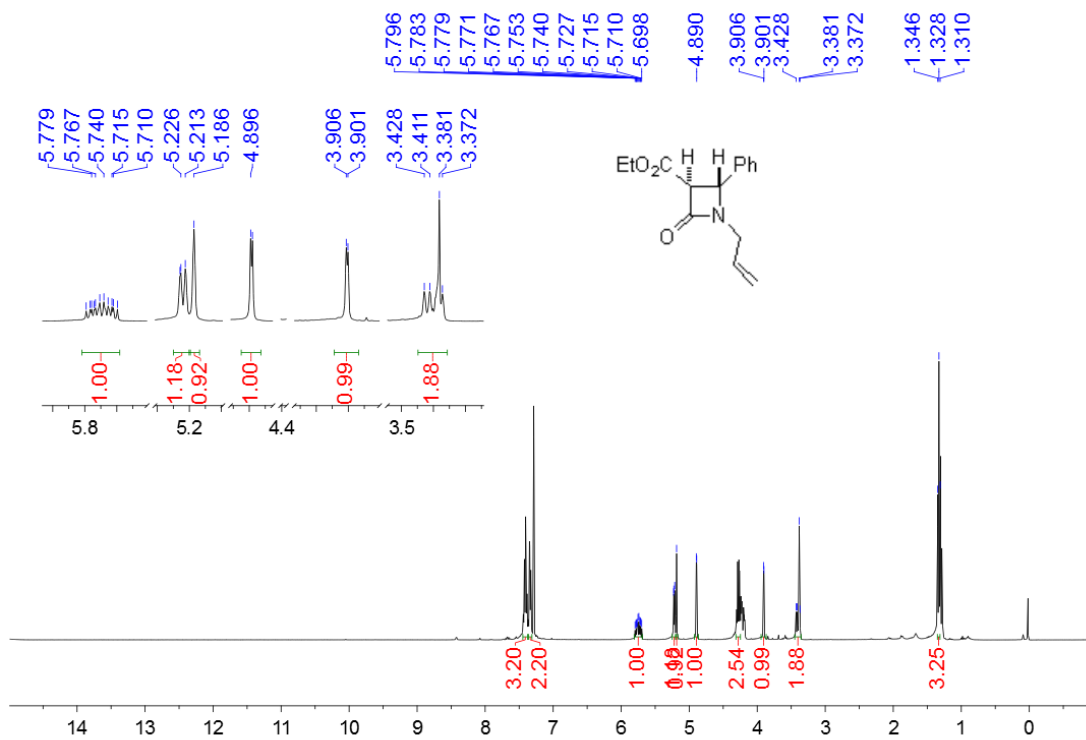
Ethyl *trans*-1-benzyl-4-phenylazetidin-2-one-3-carboxylate (3a)

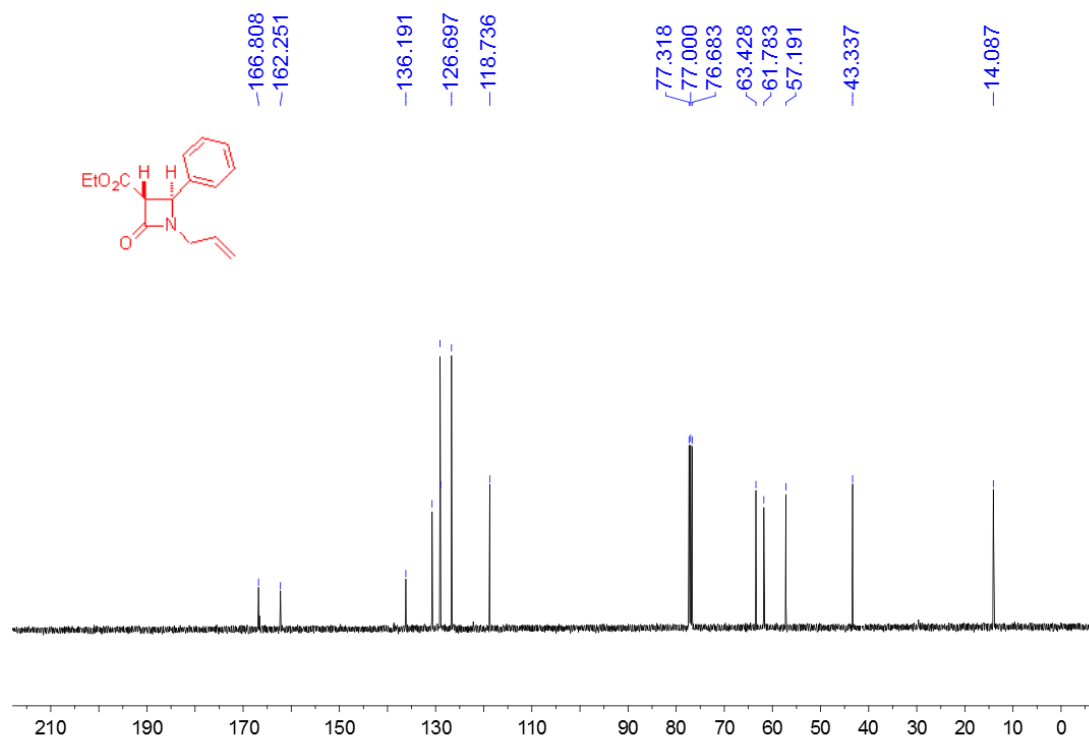


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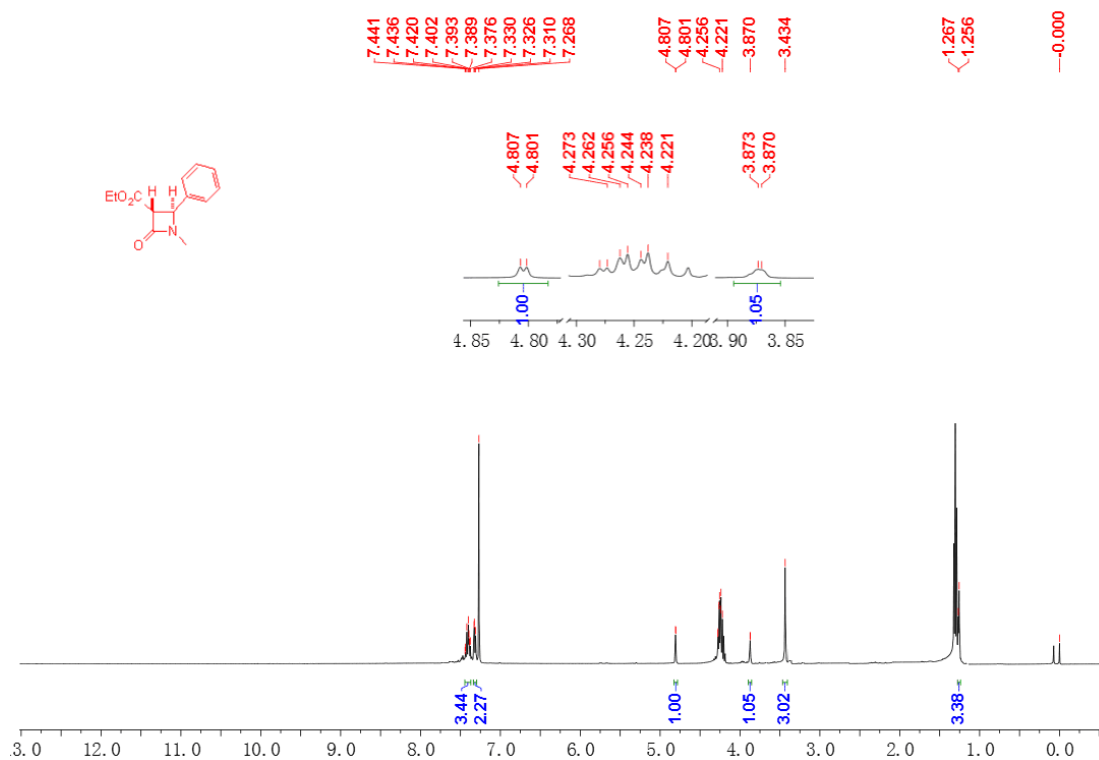


Ethyl *trans*-1-allyl-4-phenylazetidin-2-one-3-carboxylate (3c)

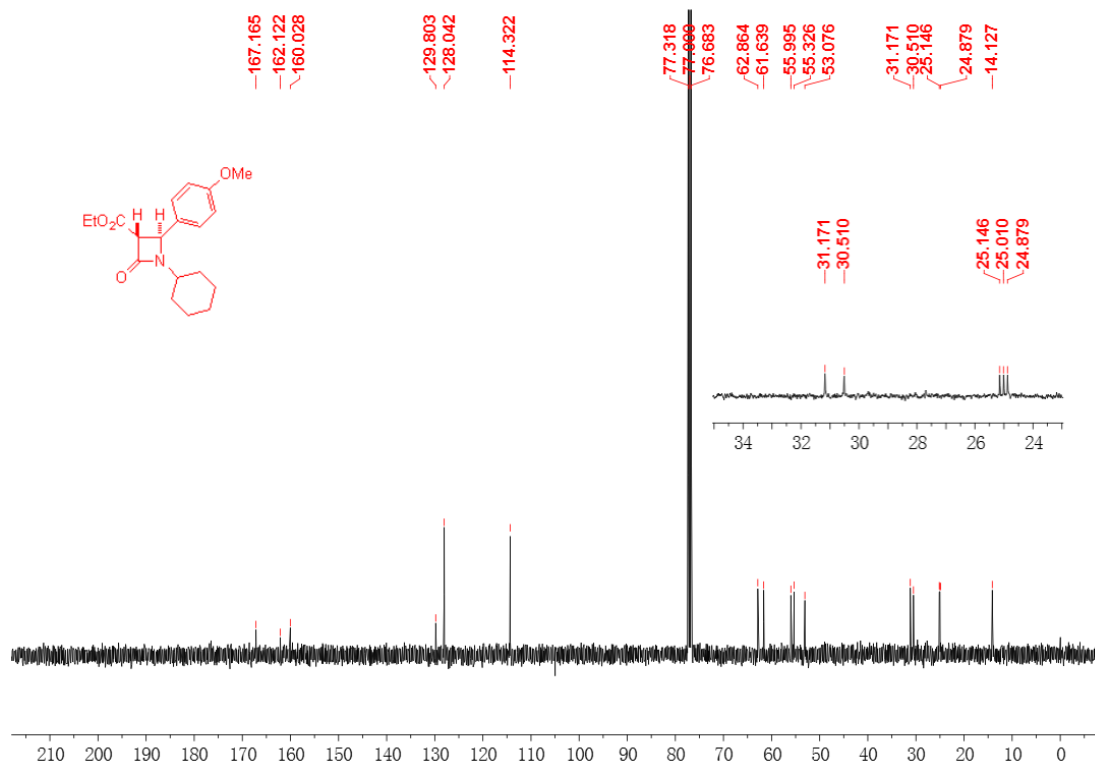
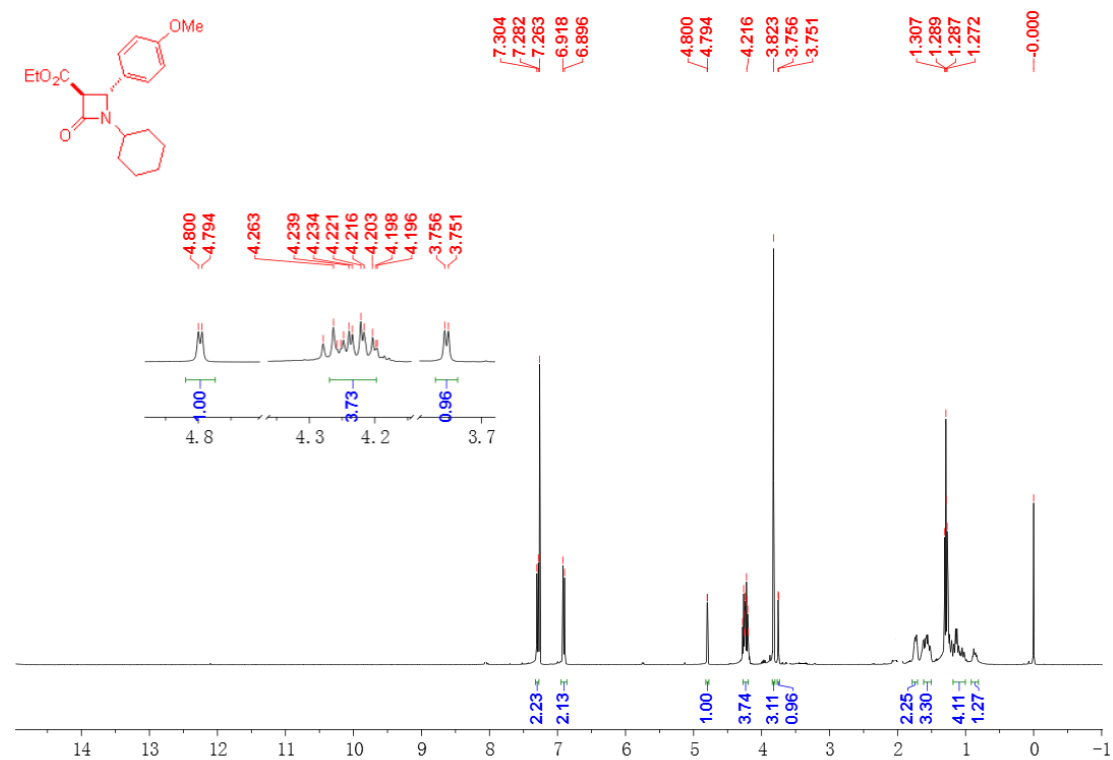




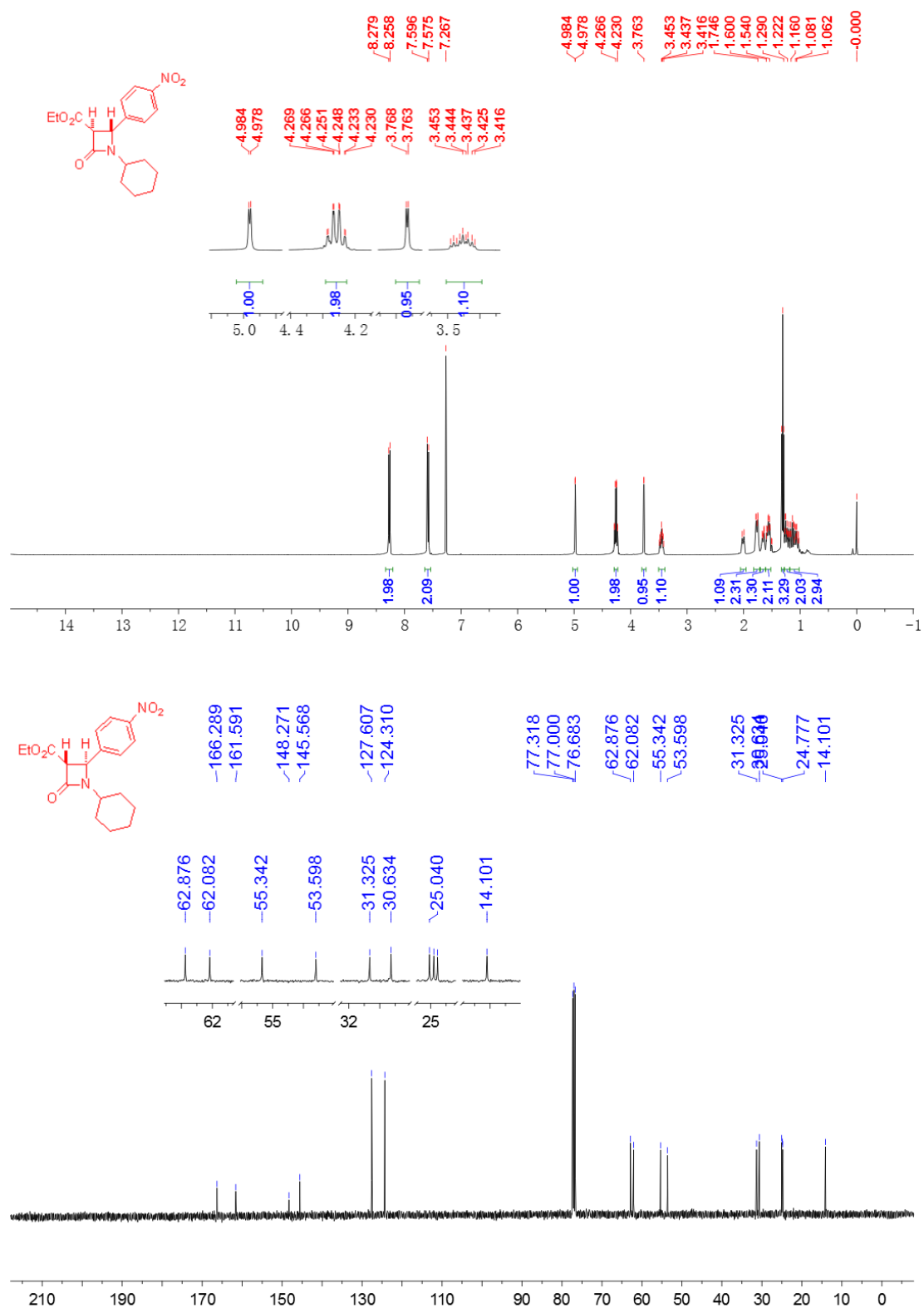
Ethyl *trans*-1-methyl-4-phenylazetidin-2-one-3-carboxylate (3d)



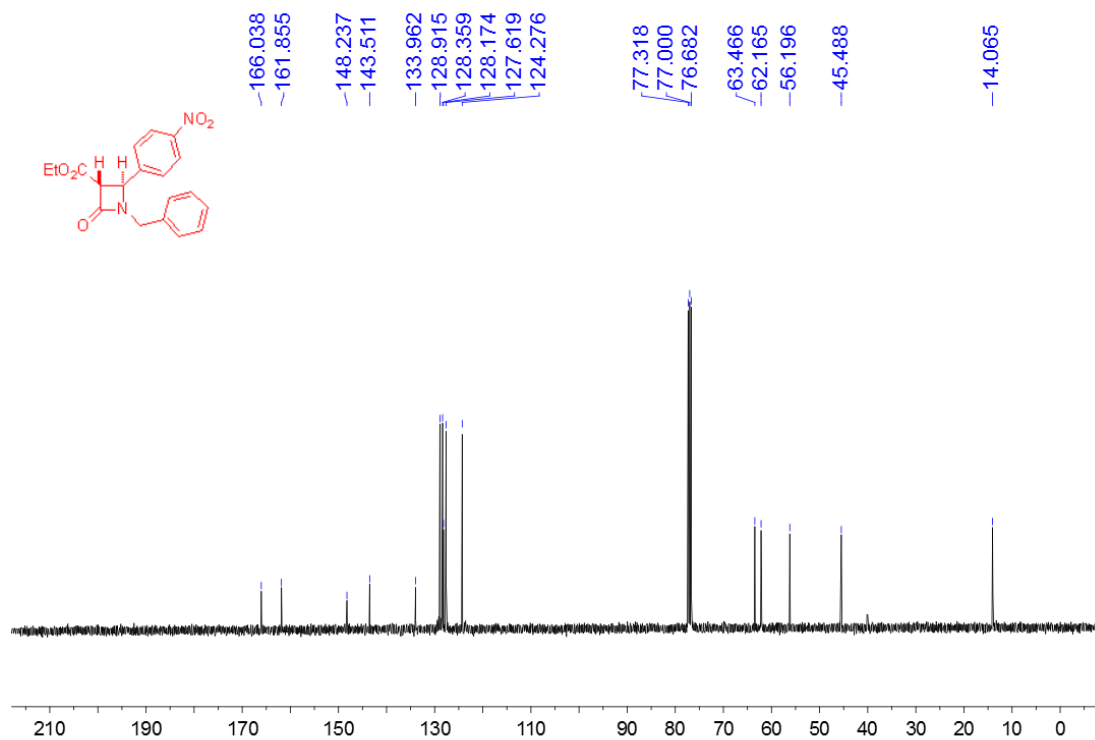
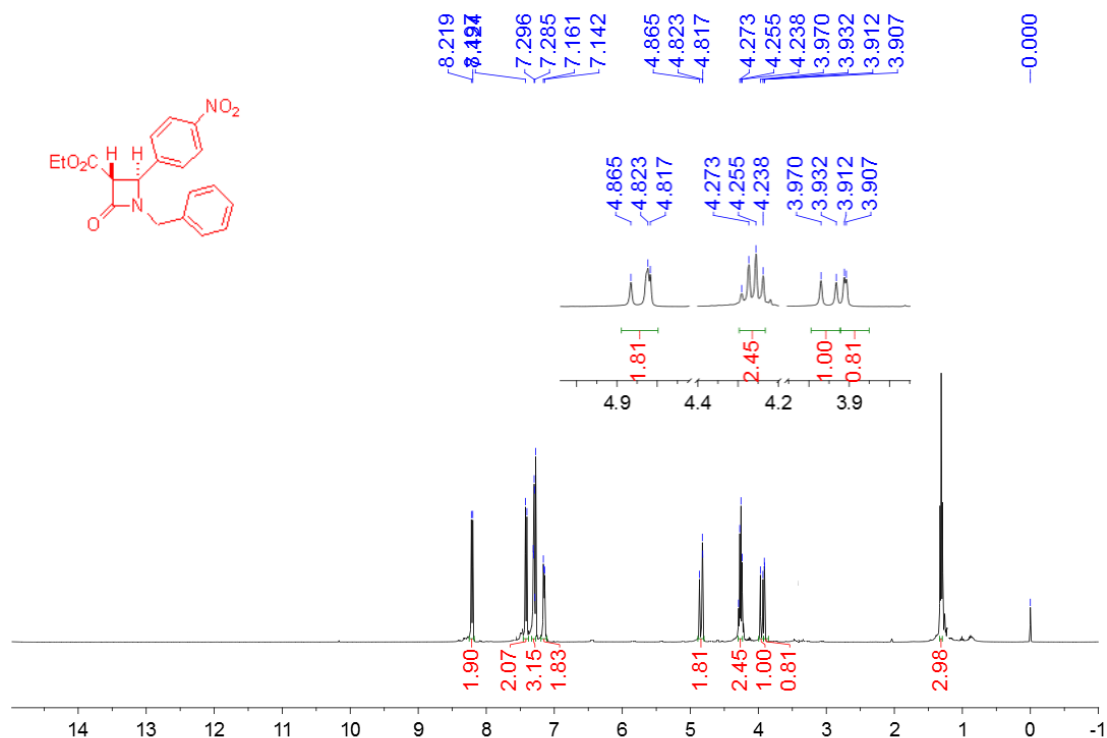
Ethyl *trans*-1-cyclohexyl-4-(4-methoxyphenyl)azetidin-2-one-3-carboxylate (3e)



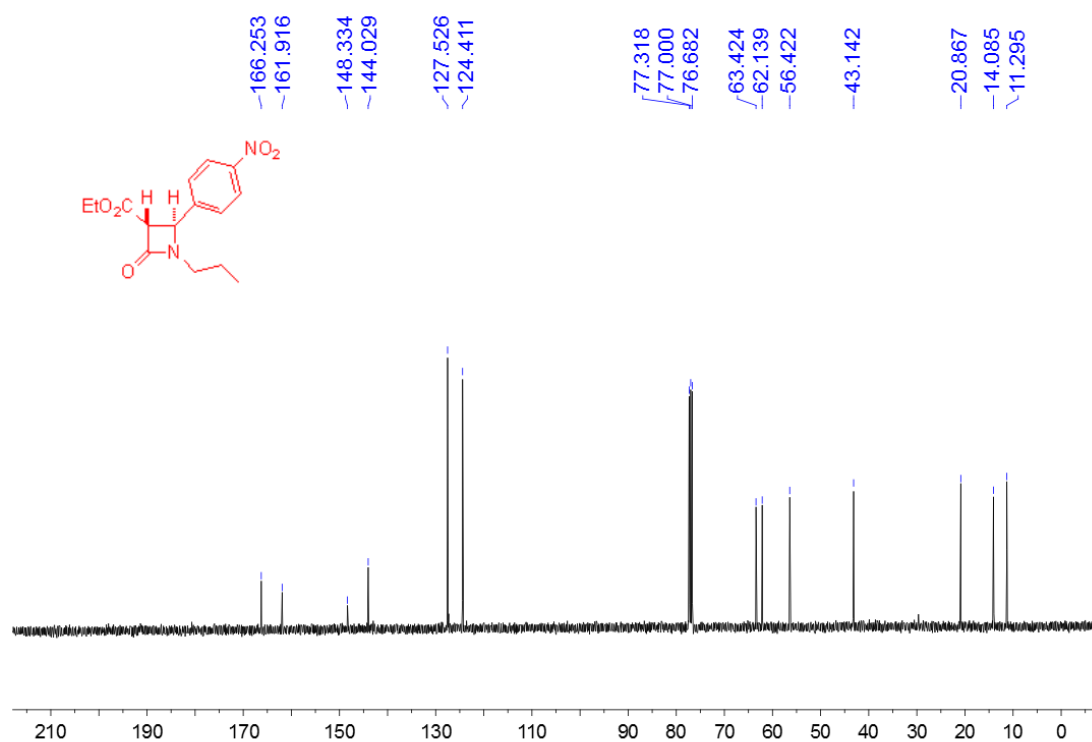
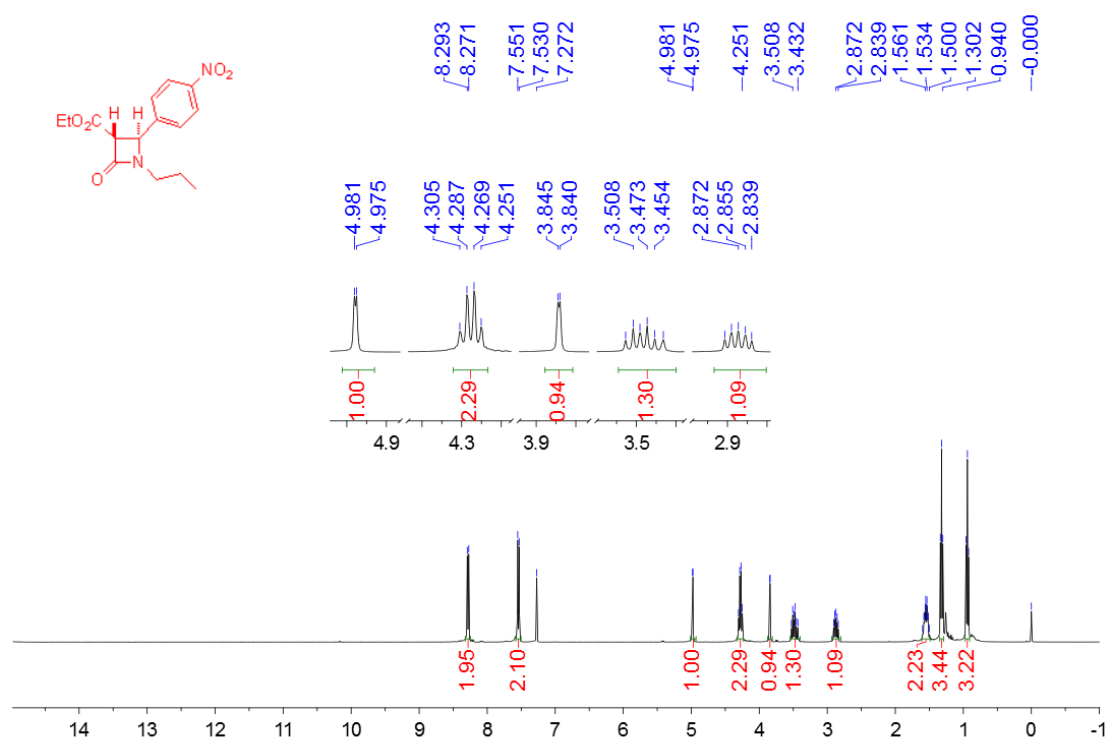
Ethyl *trans*-1-cyclohexyl-4-(4-nitrophenyl)azetidin-2-one-3-carboxylate (3f)



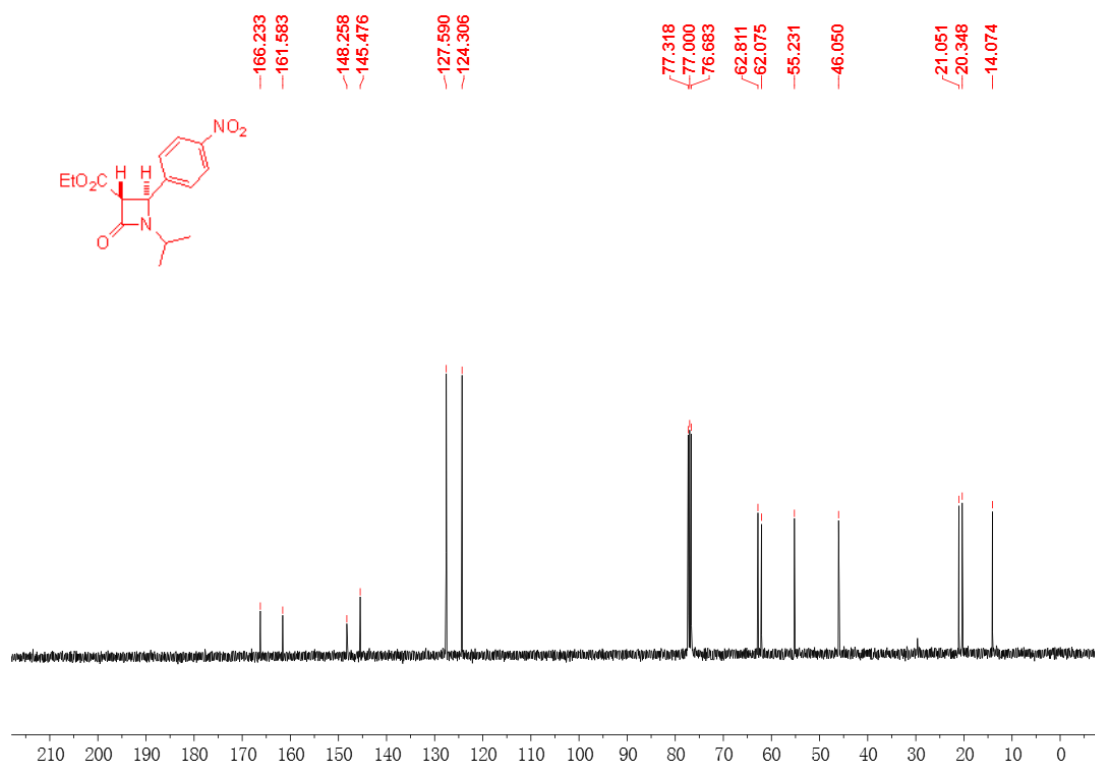
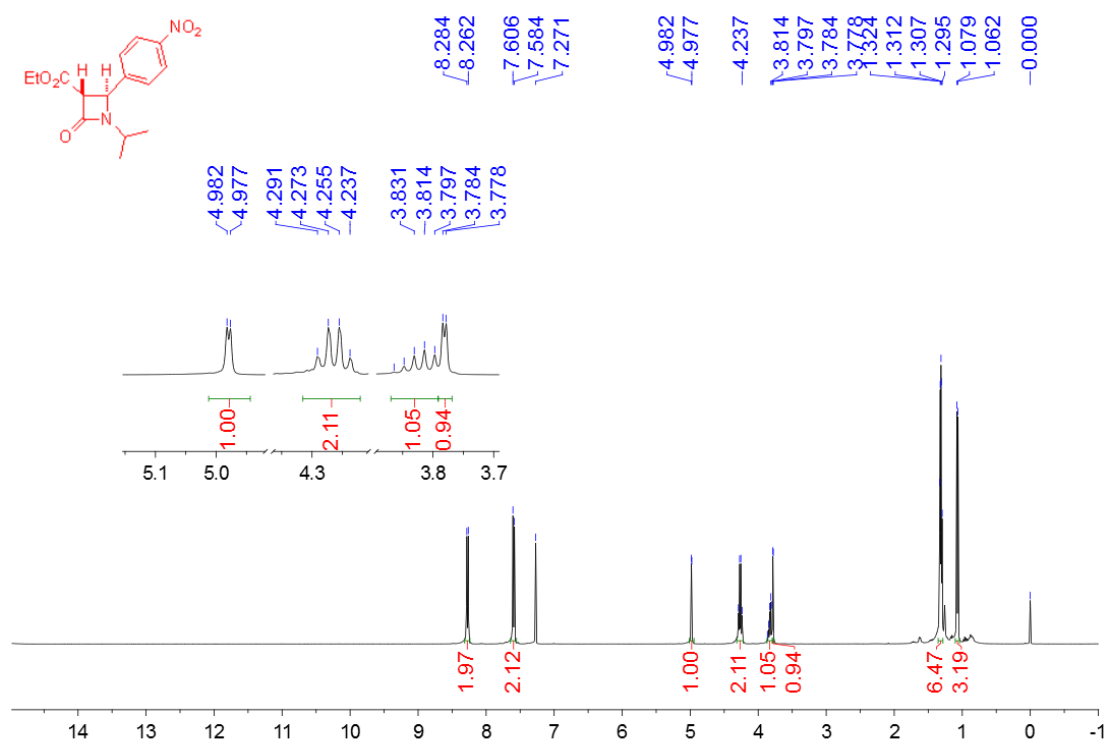
Ethyl *trans*-4-(4-nitrophenyl)-1-propylazetidin-2-one-3-carboxylate (3g)



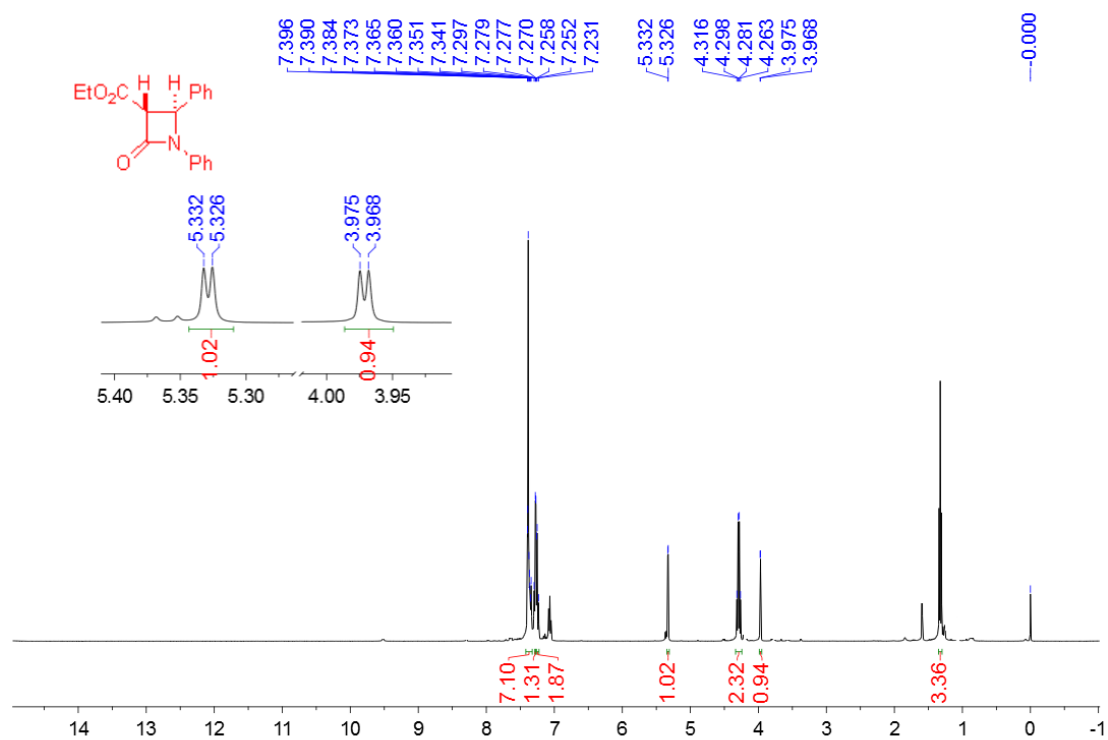
Ethyl *trans*-1-benzyl-4-(4-nitrophenyl)azetidin-2-one-3-carboxylate (3h)



Ethyl *trans*-1-isopropyl-4-(4-nitrophenyl)azetidin-2-one-3-carboxylate (3i)

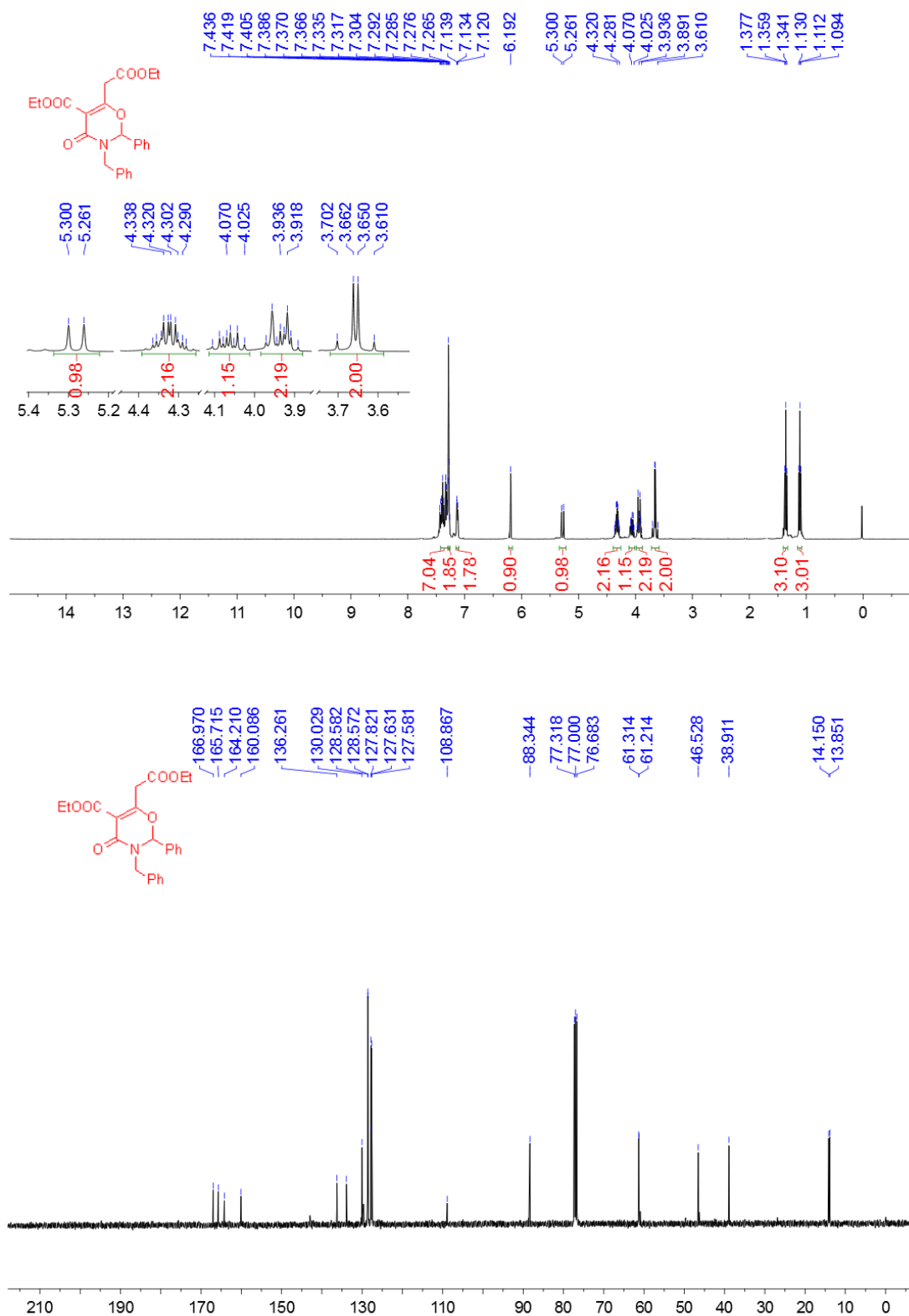


Ethyl *trans*-1,4-diphenylazetidin-2-one-3-carboxylate (3j)

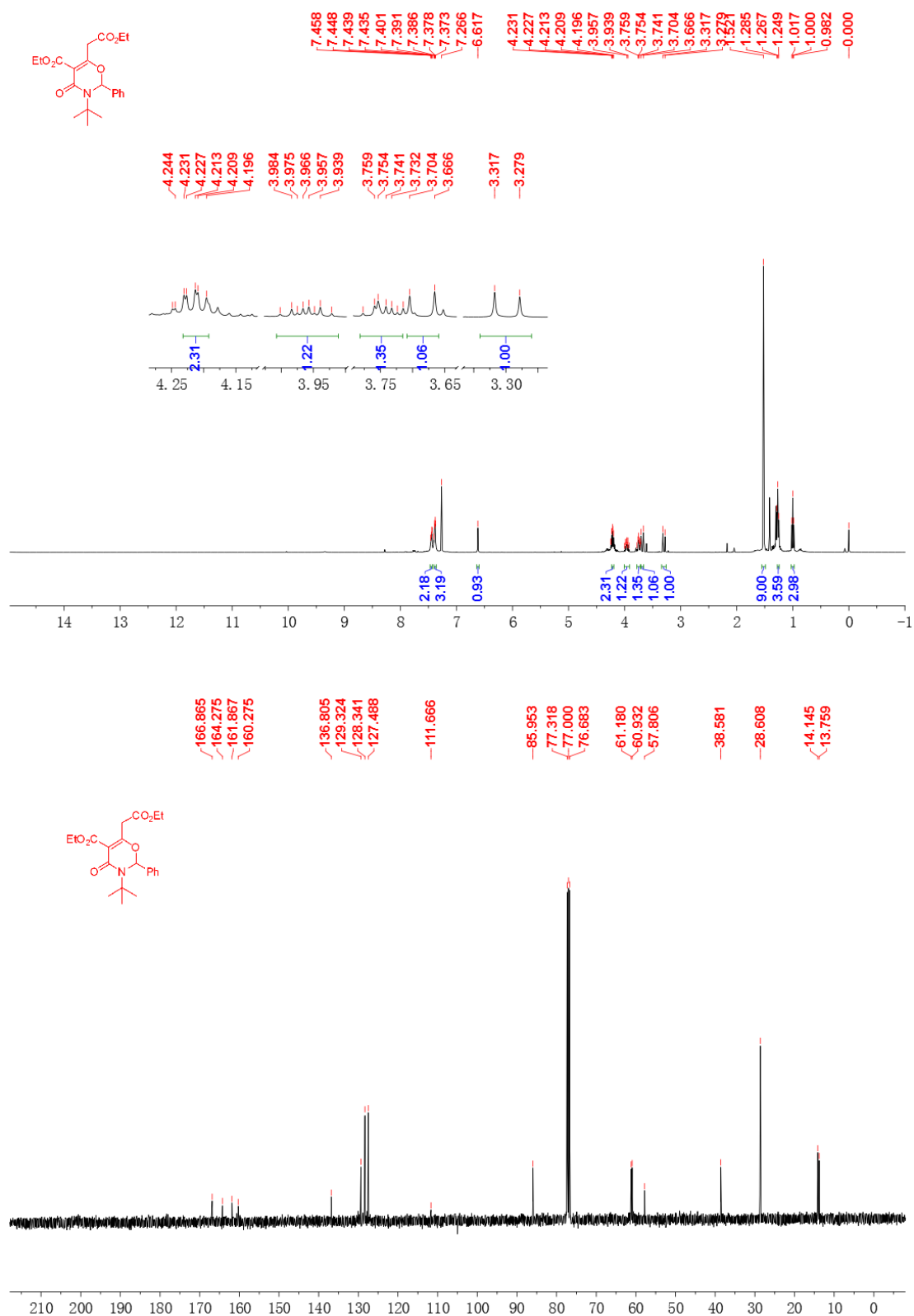


Ethyl 3-benzyl-6-(2-ethoxy-2-oxoethyl)-2-phenyl-2,3-dihydro-1,3-oxazin-4-one-5-carboxylate

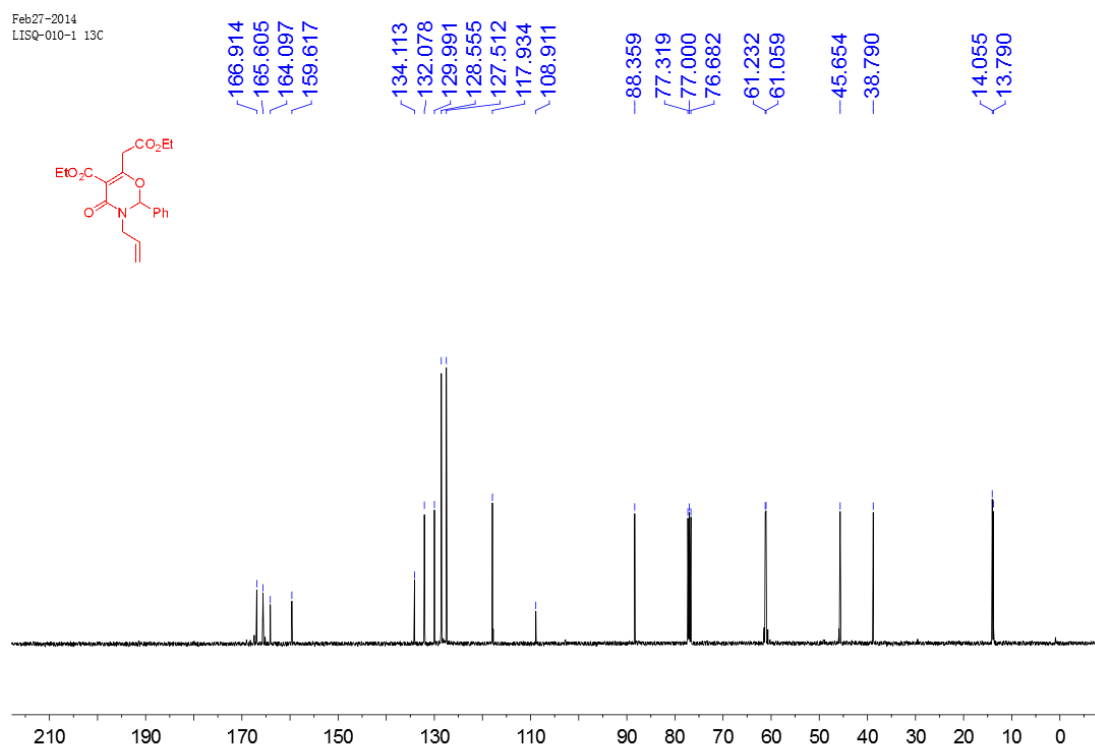
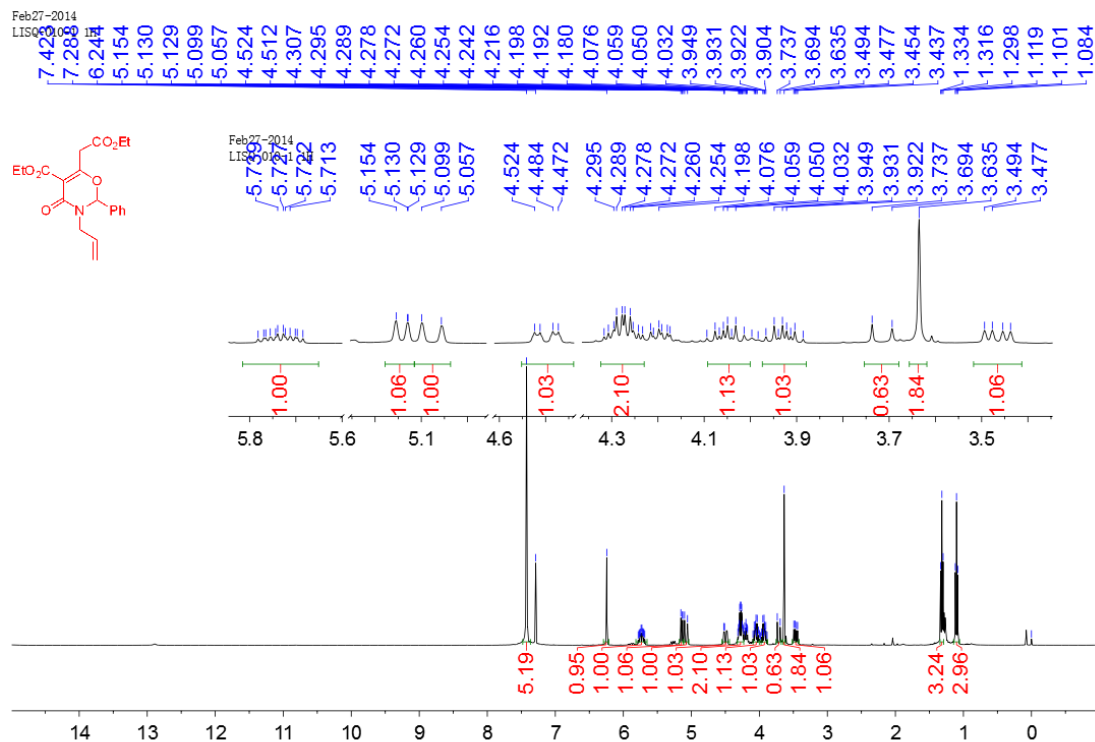
(4a)



Ethyl 3-*tert*-butyl-6-(2-ethoxy-2-oxoethyl)-2-phenyl-2,3-dihydro-1,3-oxazin-4-one-5-carboxylate (4b)

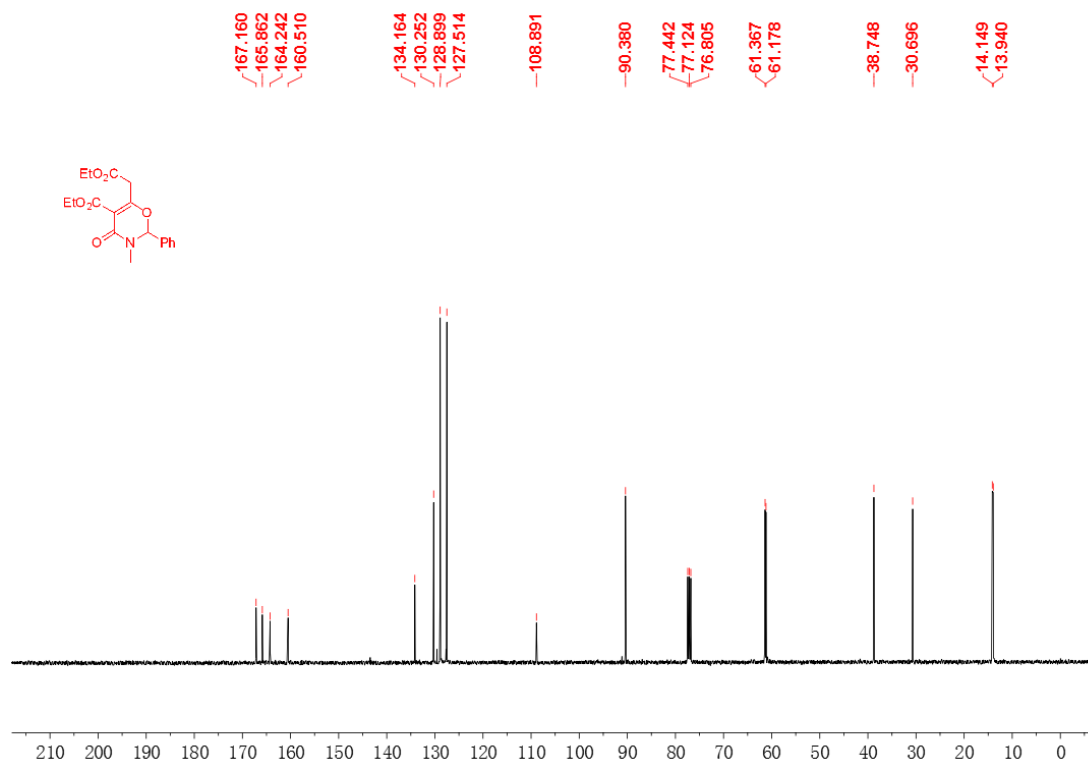
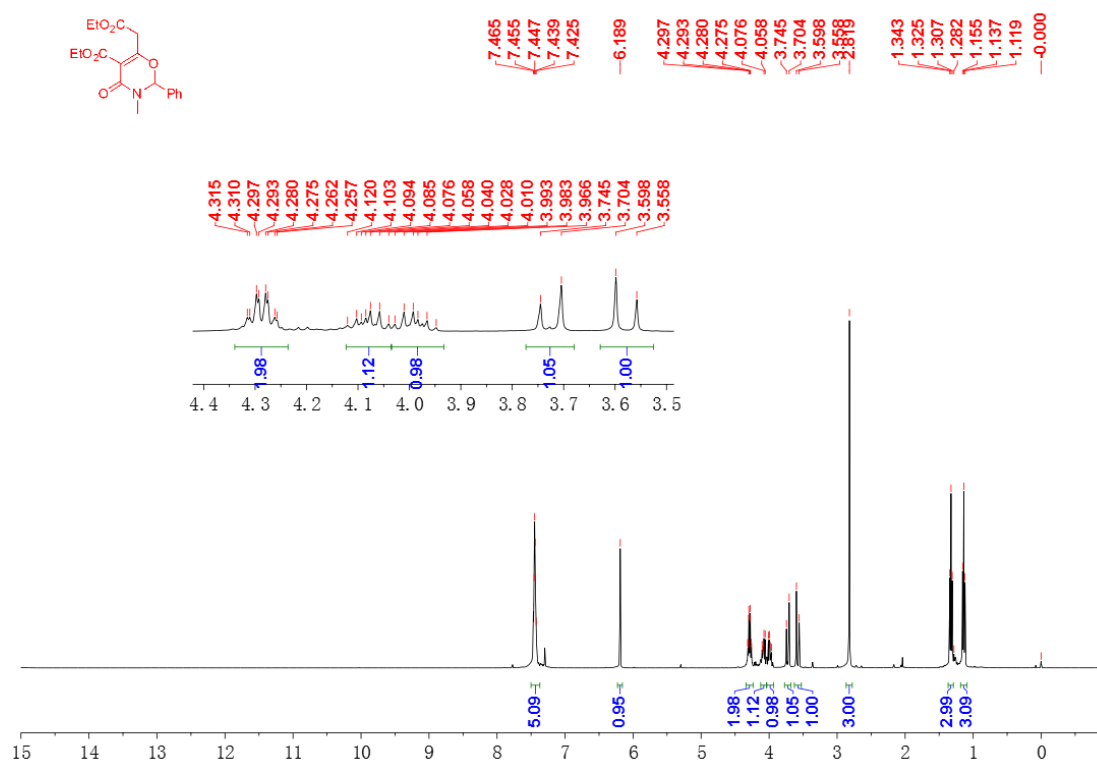


Ethyl 3-allyl-6-(2-ethoxy-2-oxoethyl)-2-phenyl-2,3-dihydro-1,3-oxazin-4-one-5-carboxylate (4c)

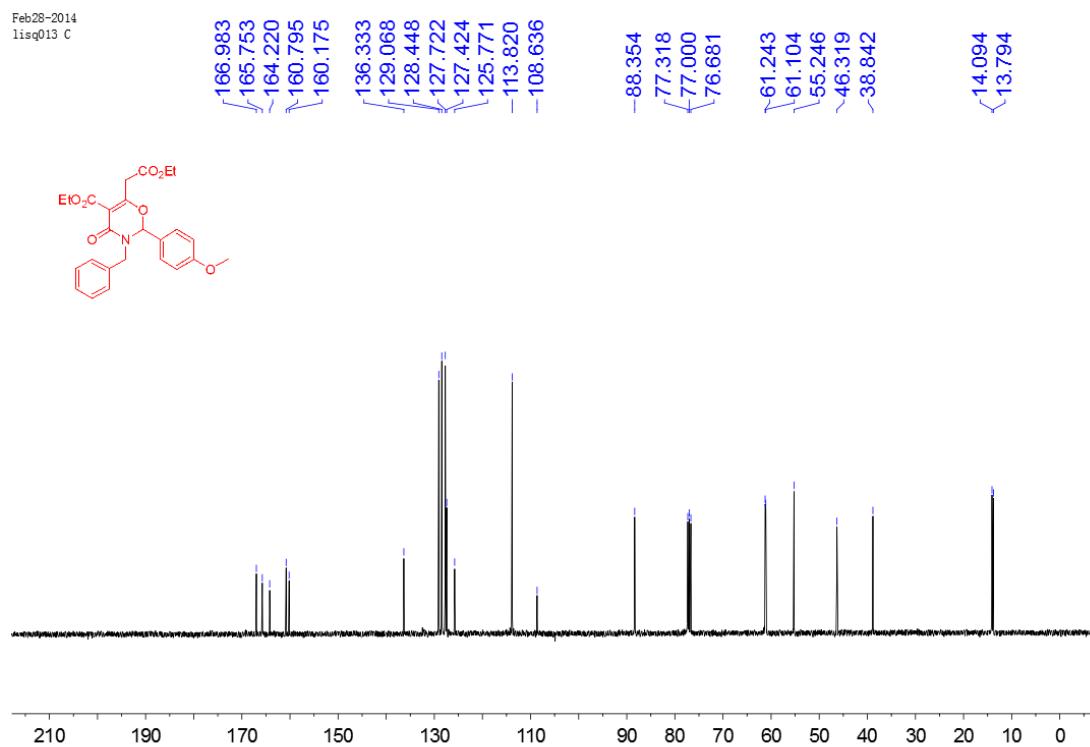
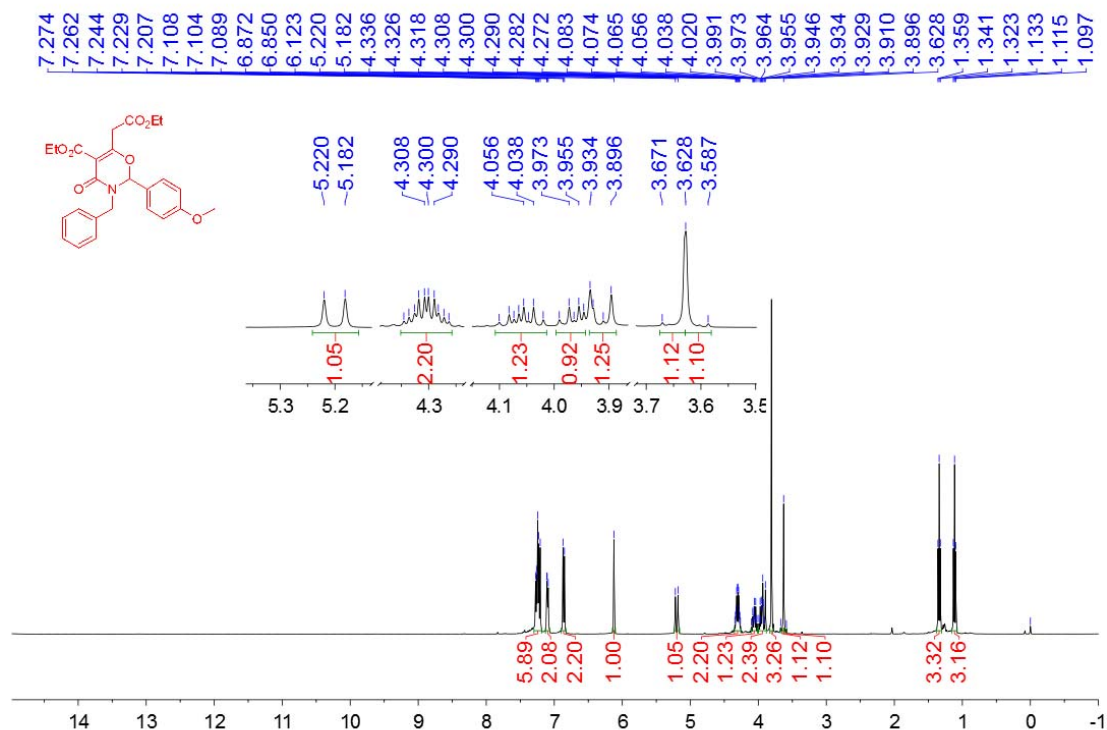


Ethyl 6-(2-ethoxy-2-oxoethyl)-3-methyl-2-phenyl-2,3-dihydro-1,3-oxazin-4-one-5-carboxylate

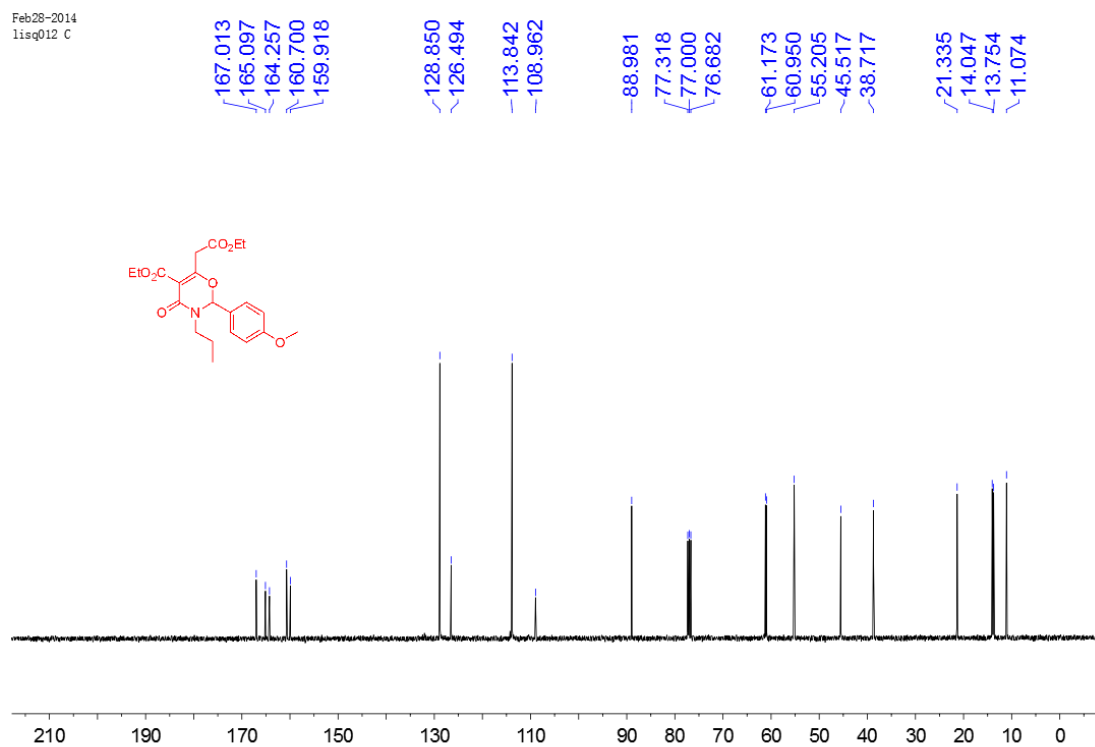
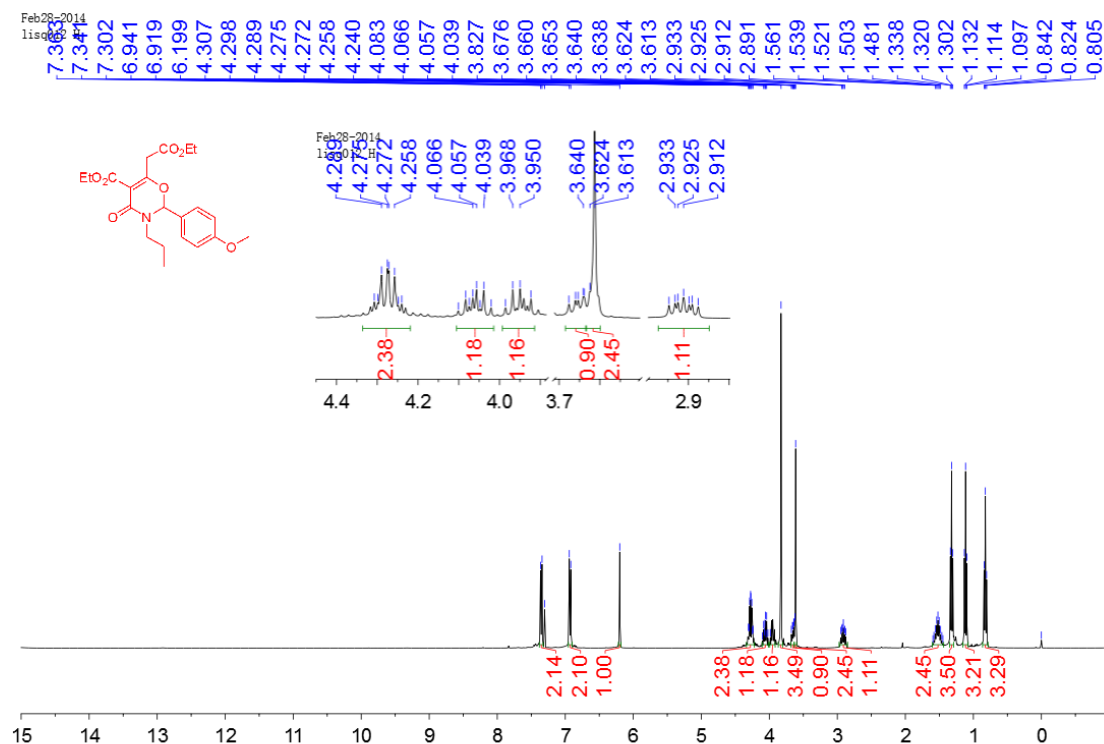
(4d)



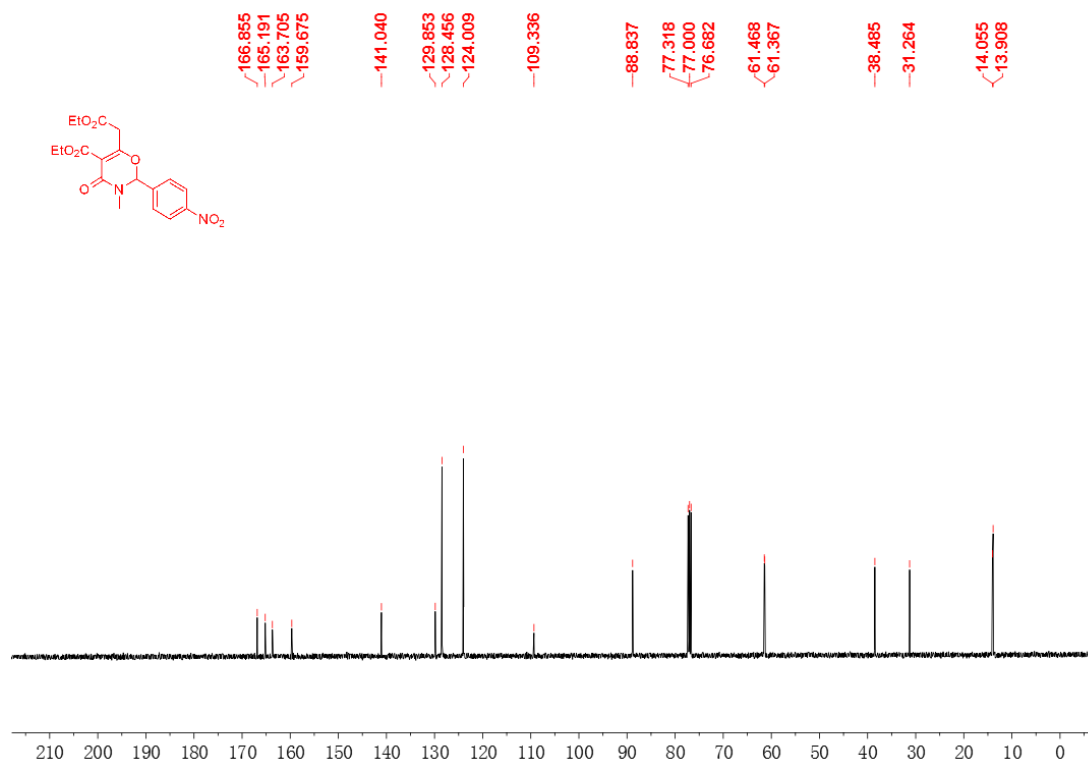
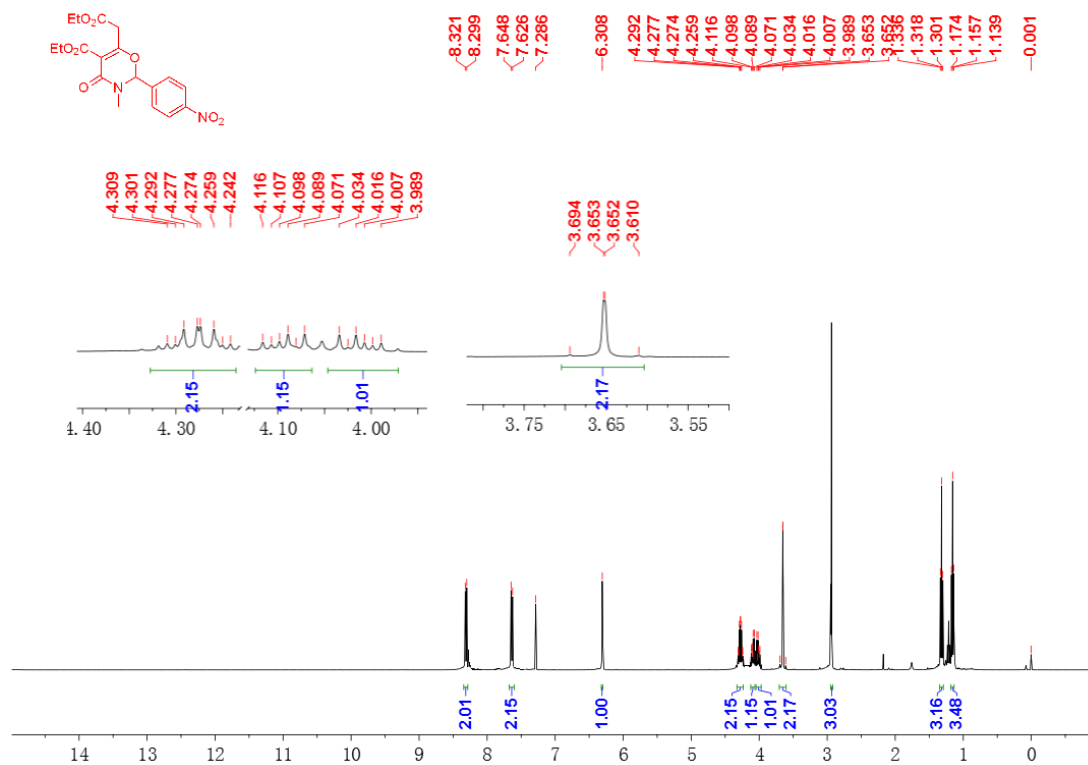
Ethyl 3-benzyl-6-(2-ethoxy-2-oxoethyl)-2-(4-methoxyphenyl)-2,3-dihydro-1,3-oxazin-4-one-5-carboxylate (4m)



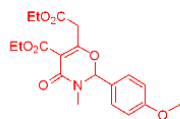
Ethyl 6-(2-ethoxy-2-oxoethyl)-2-(4-methoxyphenyl)-3-propyl-2,3-dihydro-1,3-oxazin-4-one-5-carboxylate (4n)



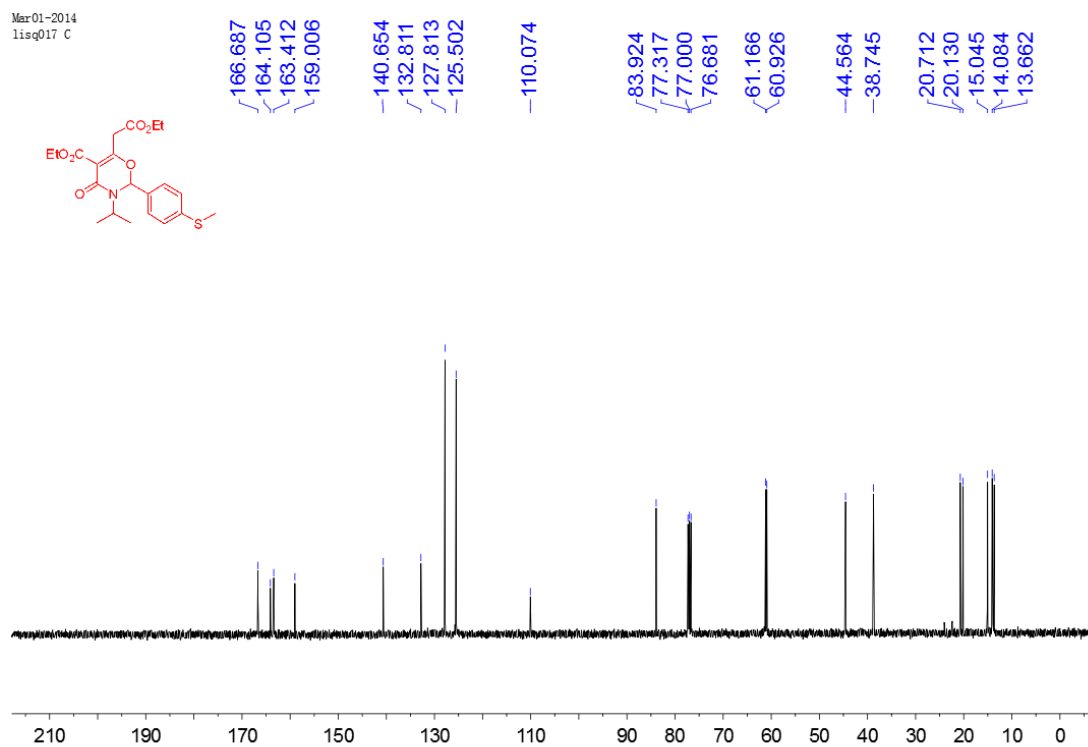
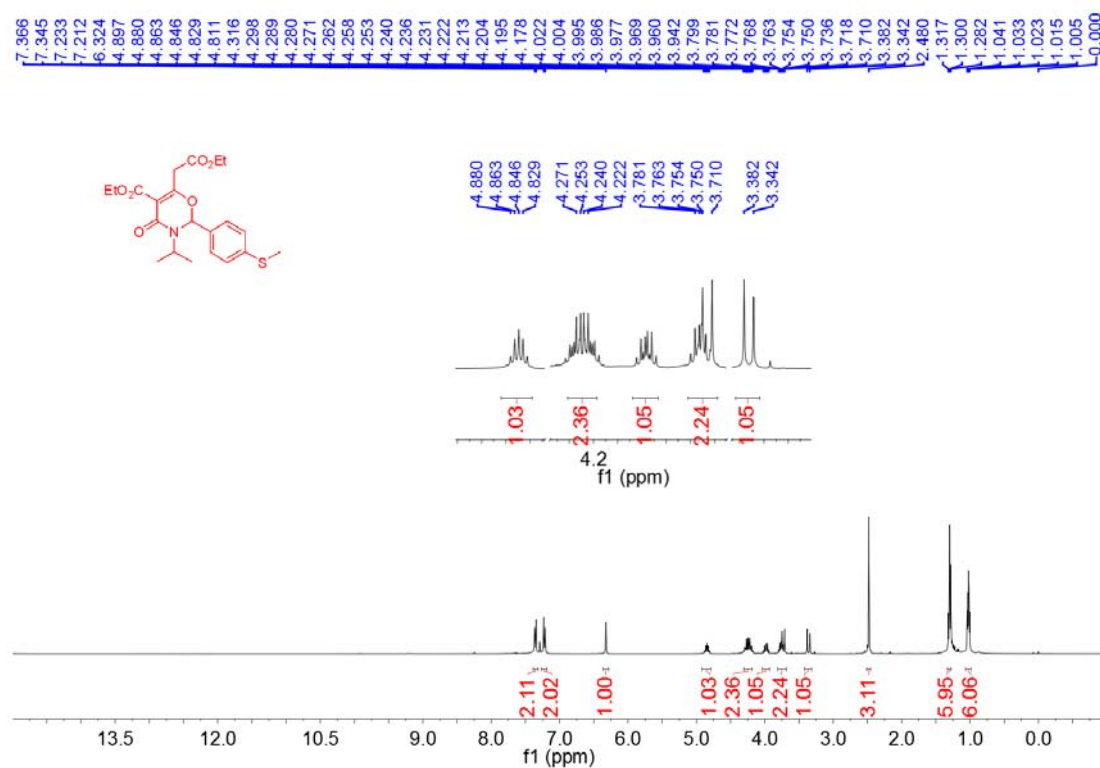
Ethyl 6-(2-ethoxy-2-oxoethyl)-3-methyl-2-(4-nitrophenyl)-2,3-dihydro-1,3-oxazin-4-one-5-carboxylate (4o)



5-carboxylate (4p)

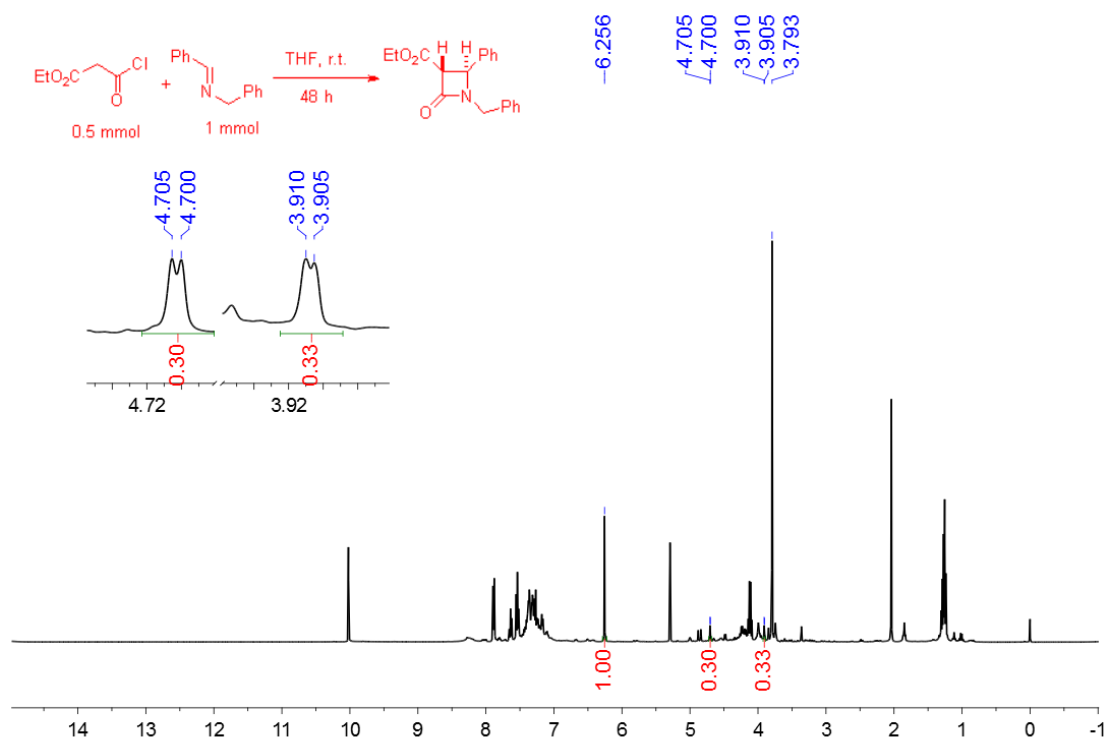


Ethyl 6-(2-ethoxy-2-oxoethyl)-3-isopropyl-2-(4-methylthiophenyl)-2,3-dihydro-1,3-oxazin-4-one-5-carboxylate (4q)

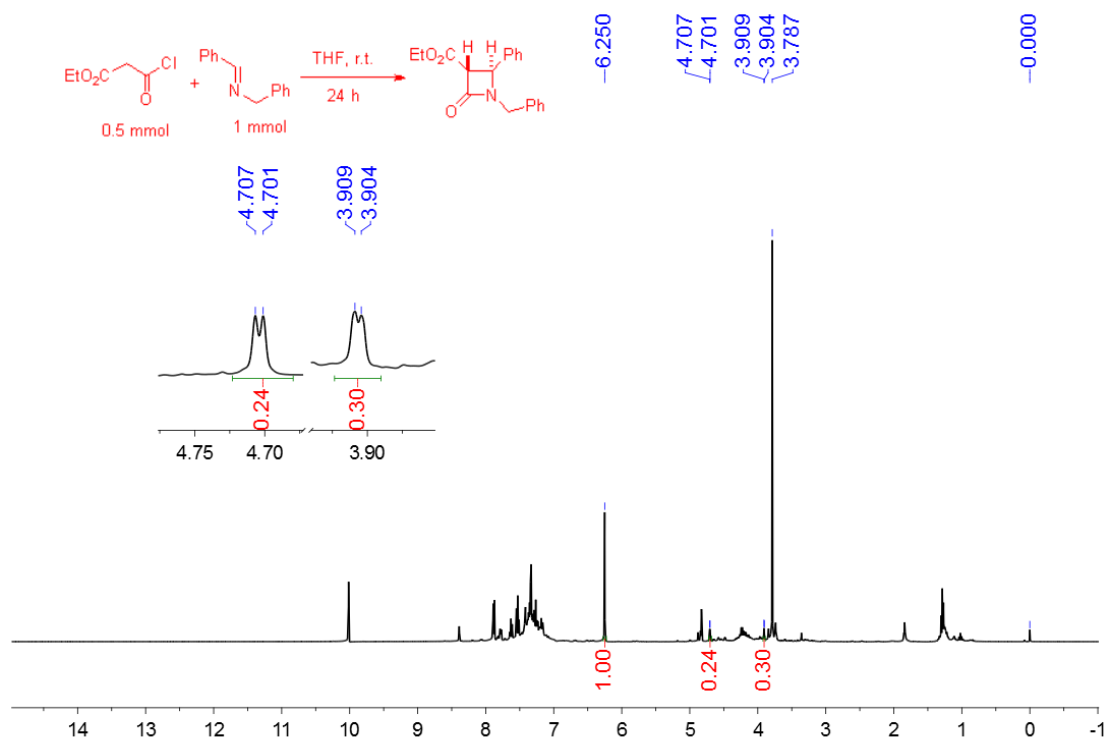


Representative ^1H NMR spectra of the Crude Reaction Mixtures in Table 1.

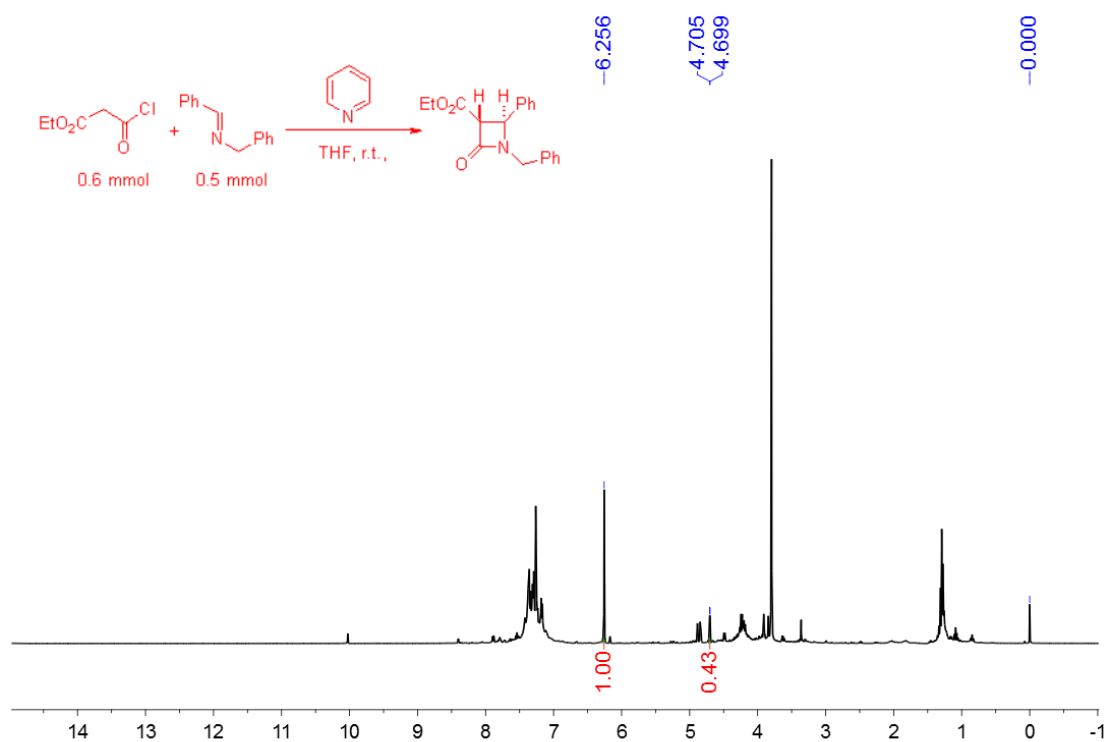
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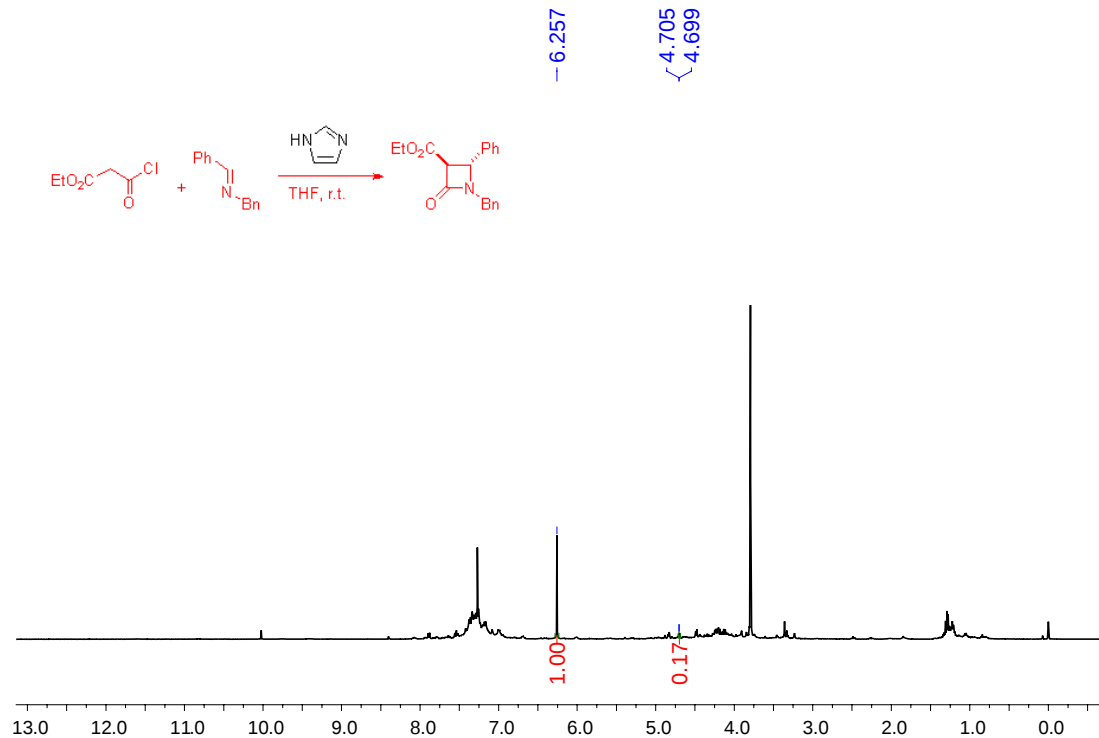
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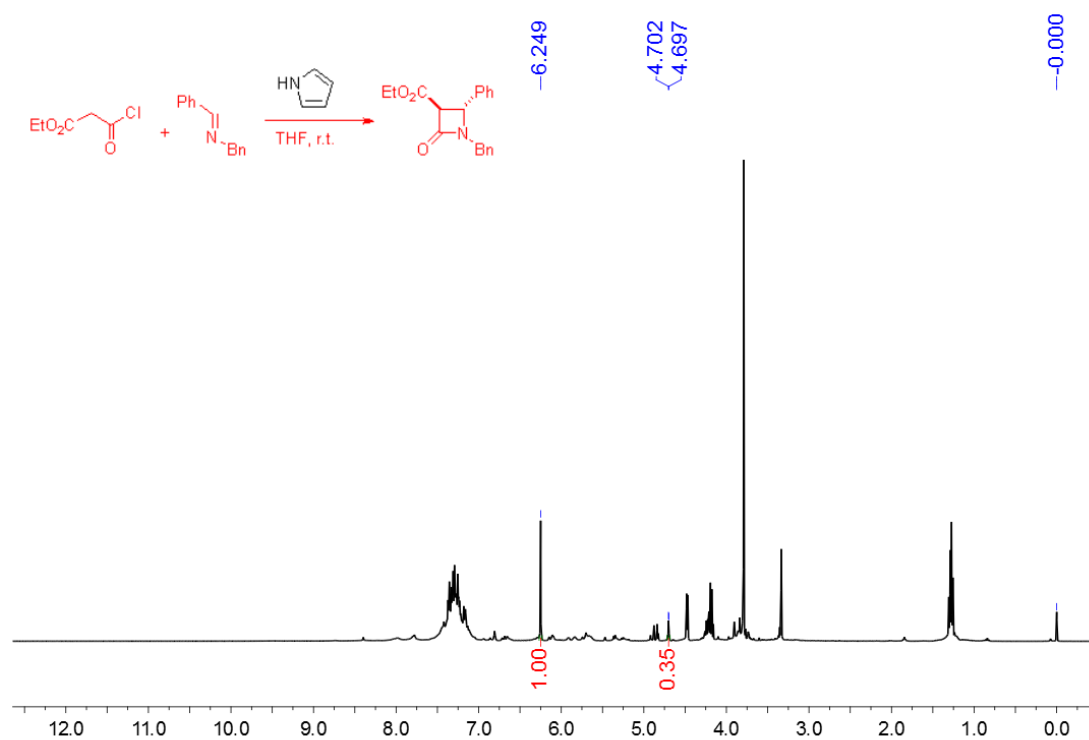
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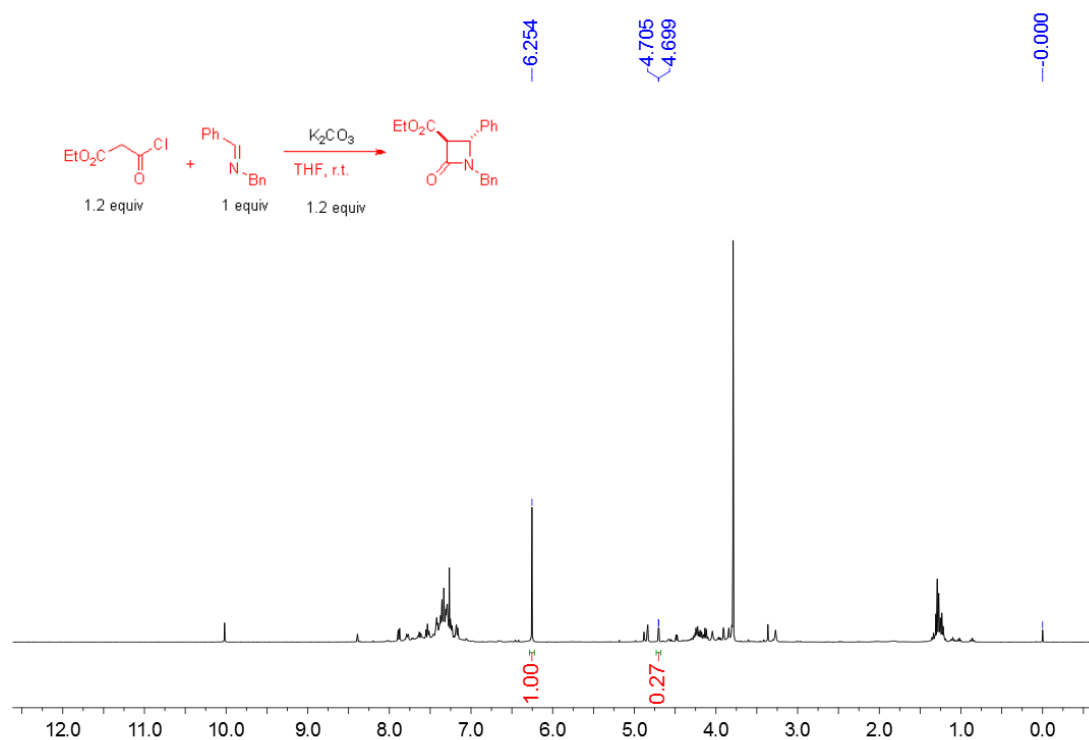
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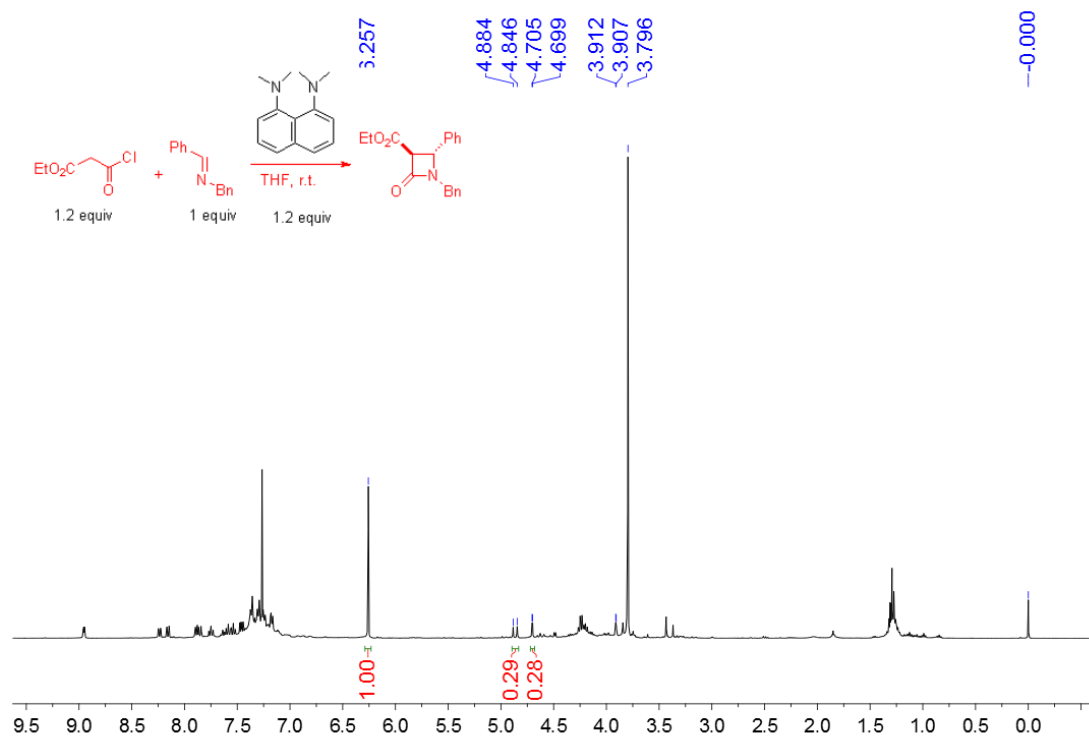
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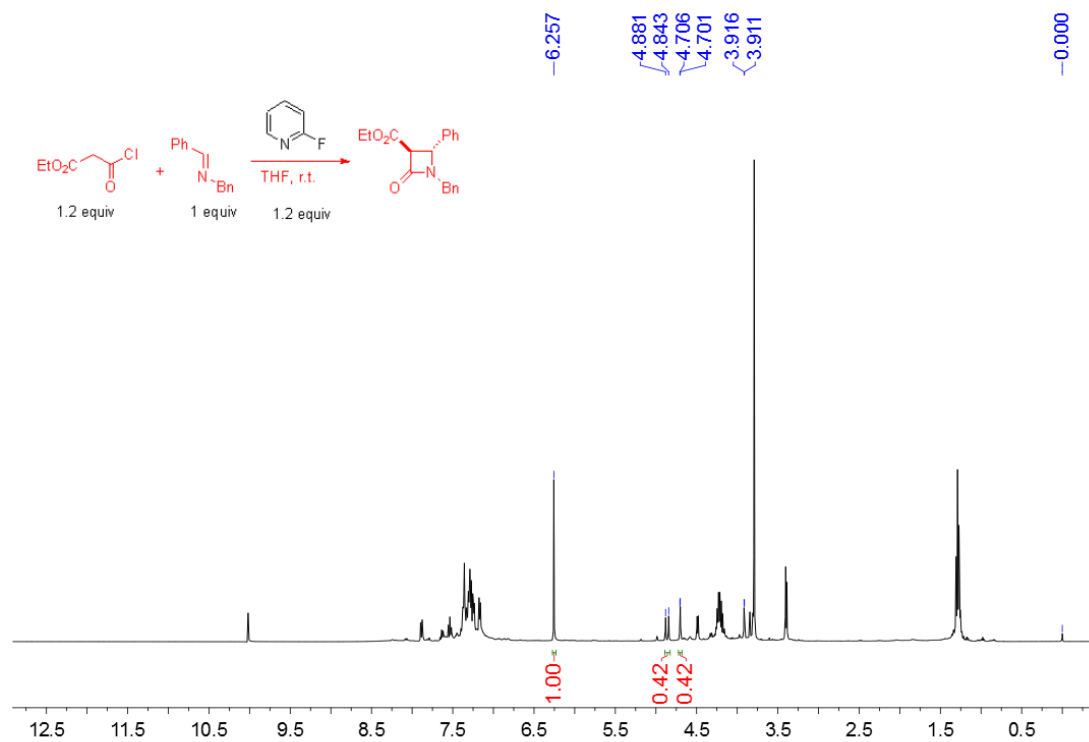
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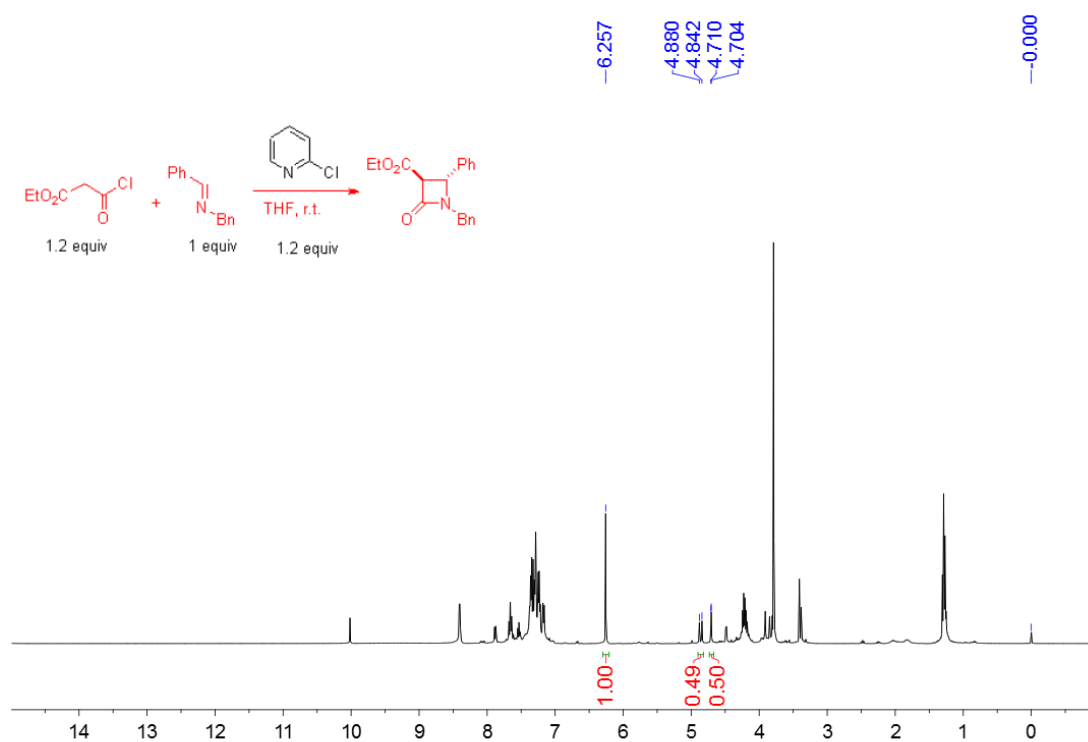
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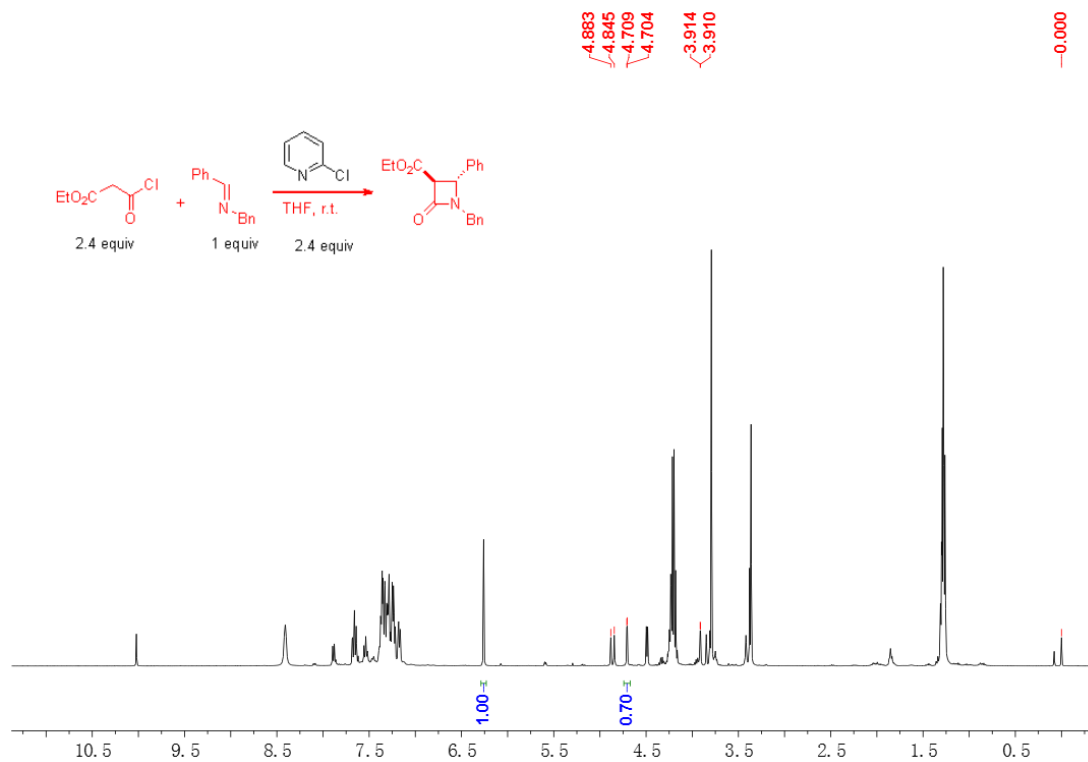
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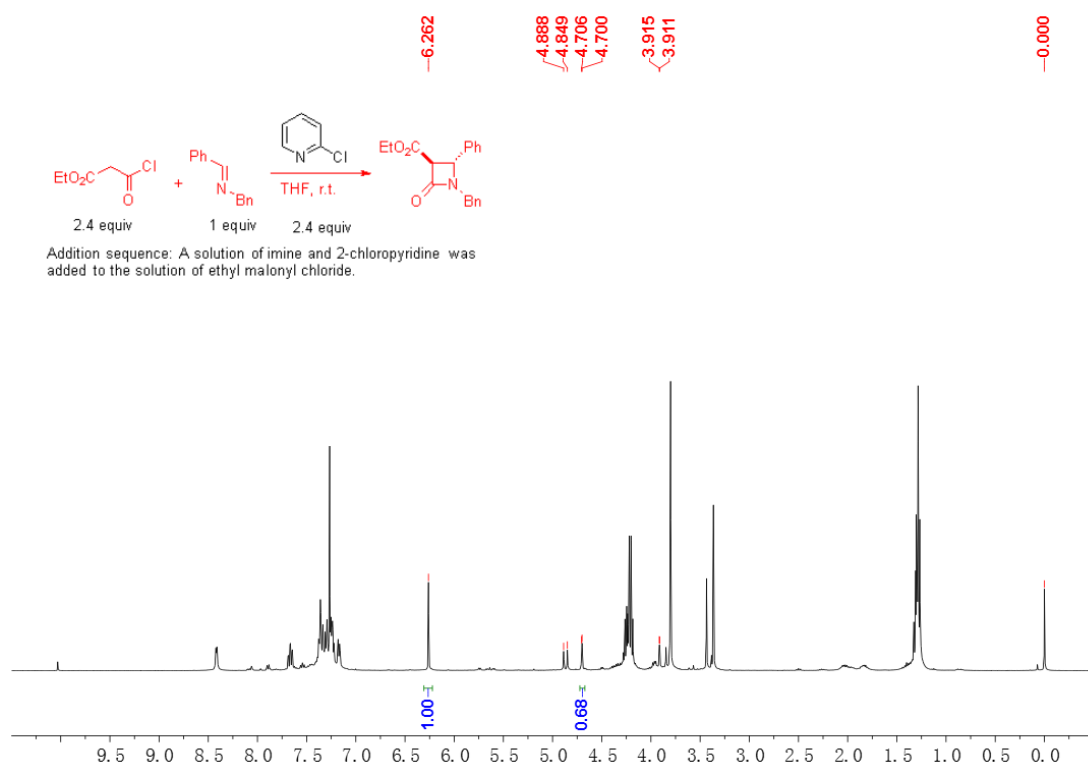
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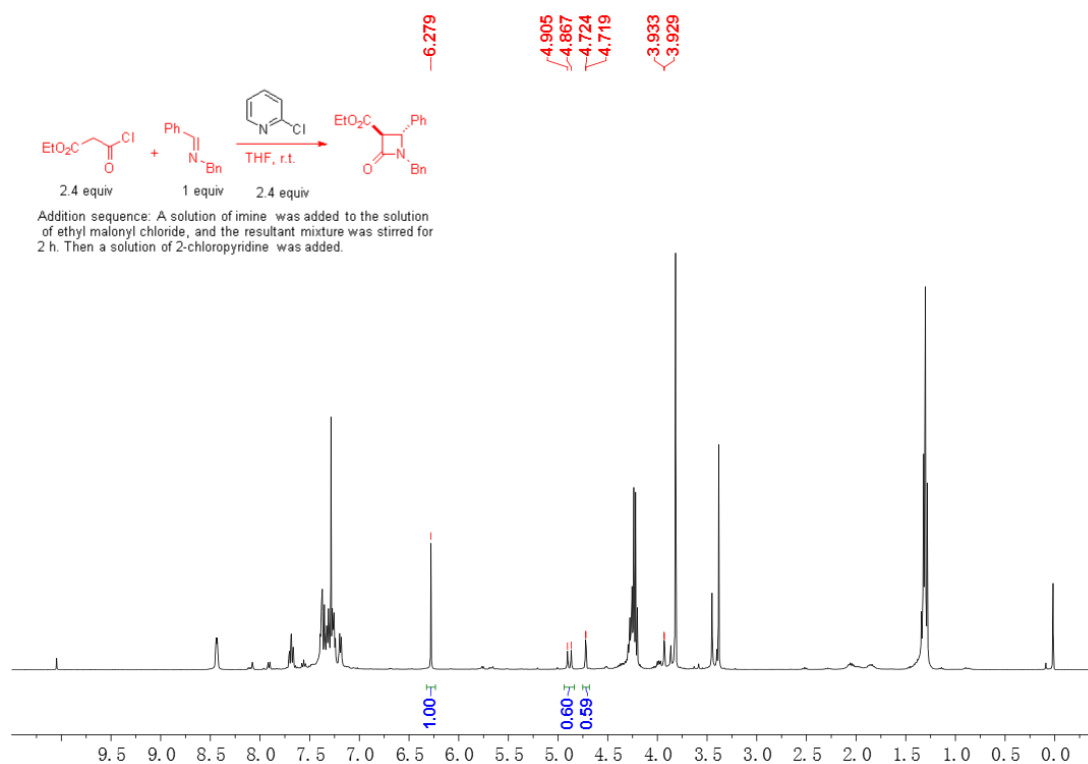
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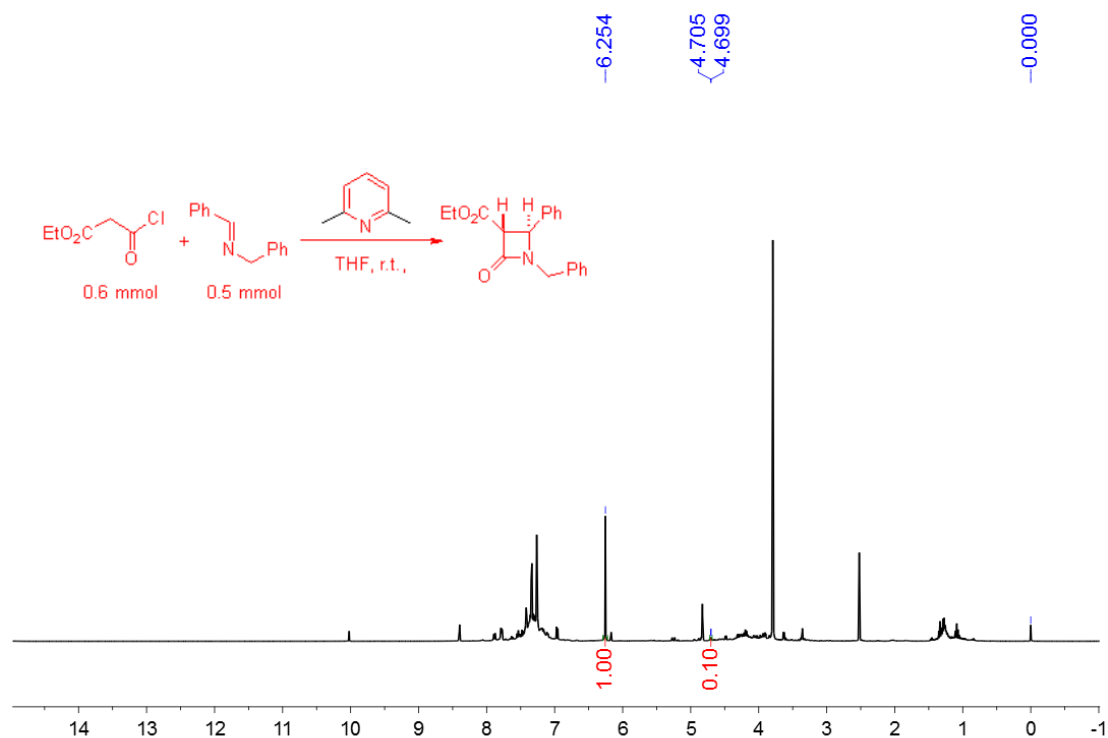
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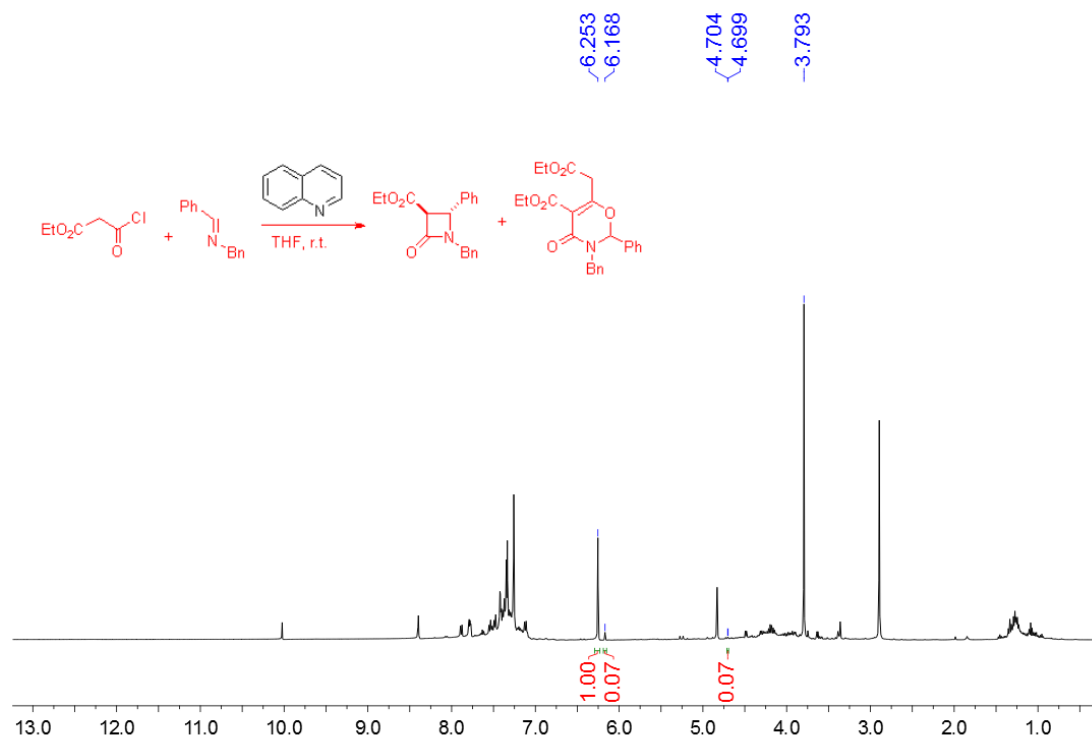
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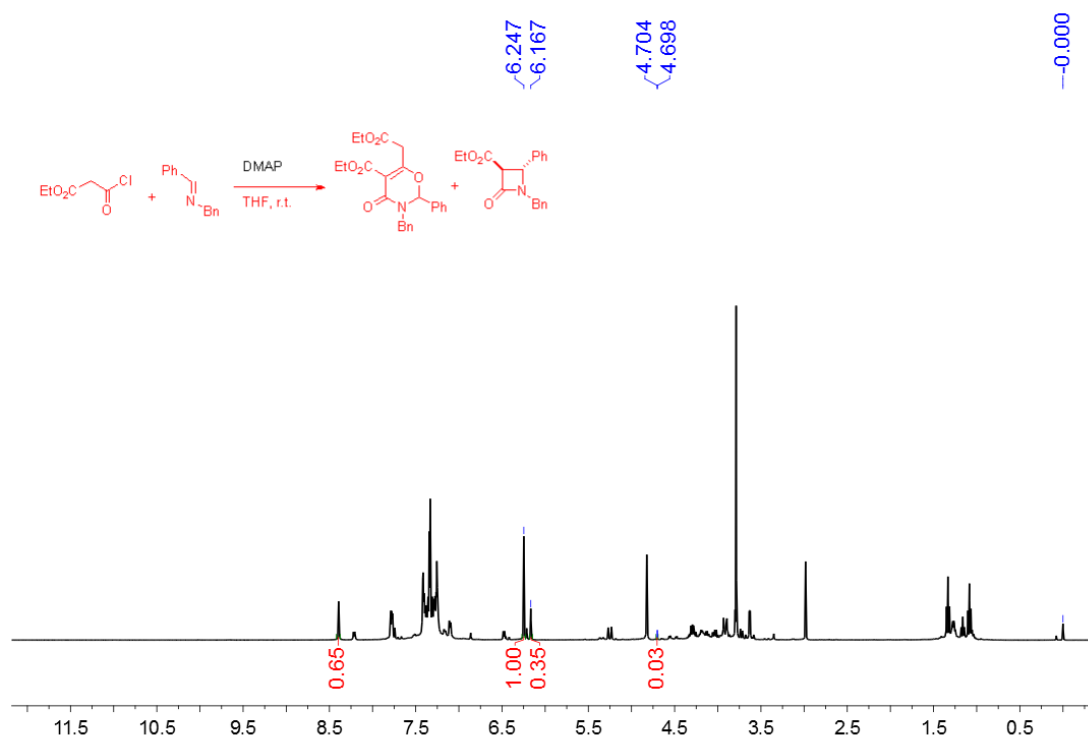
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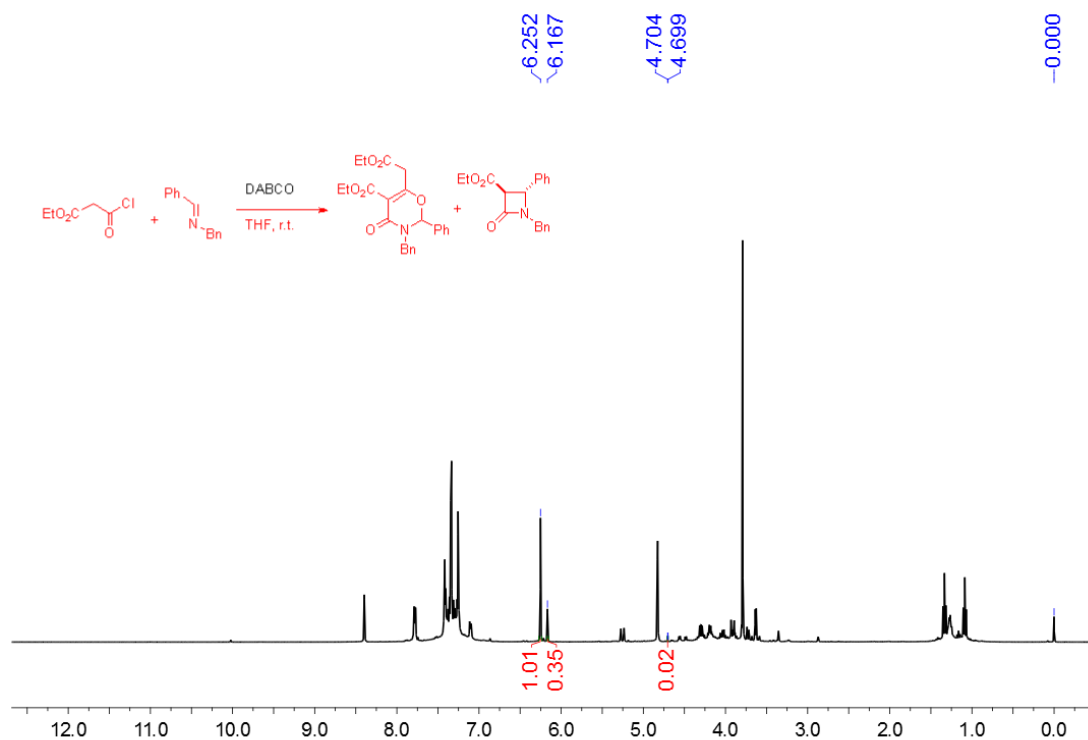
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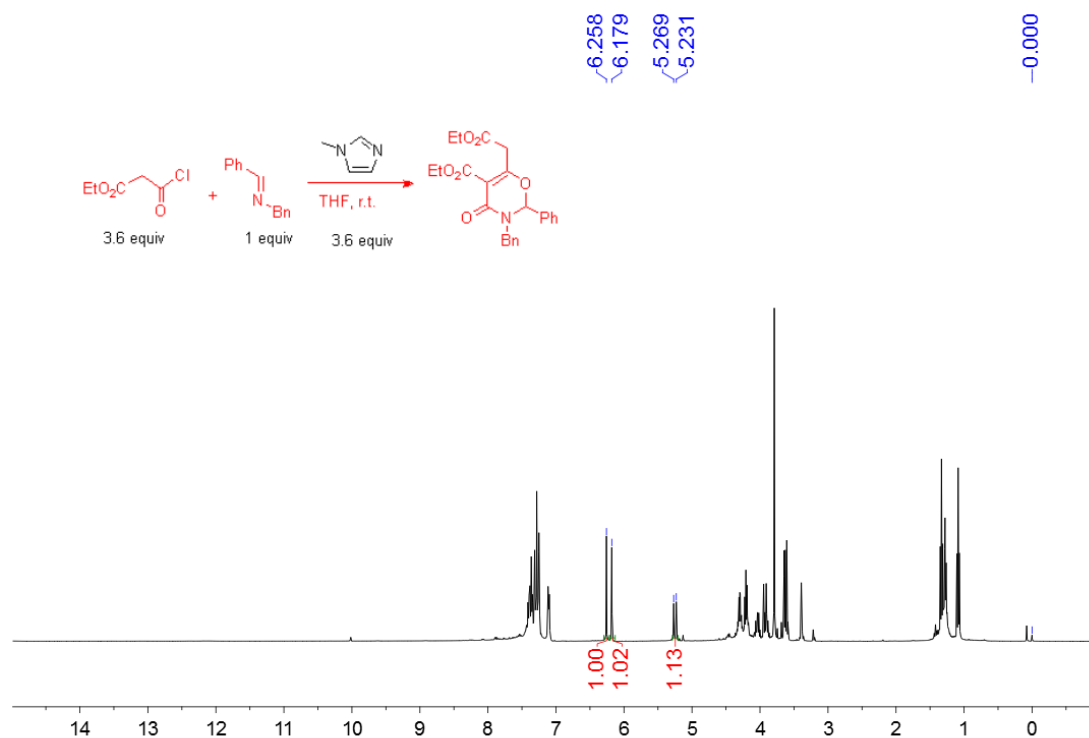
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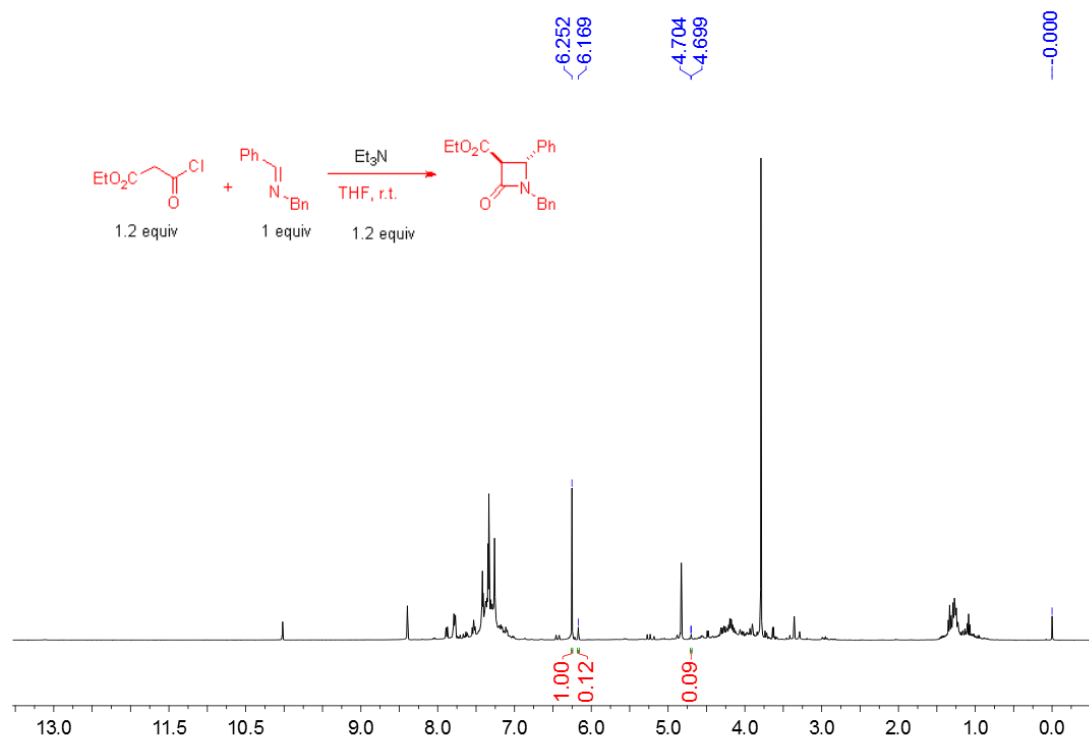
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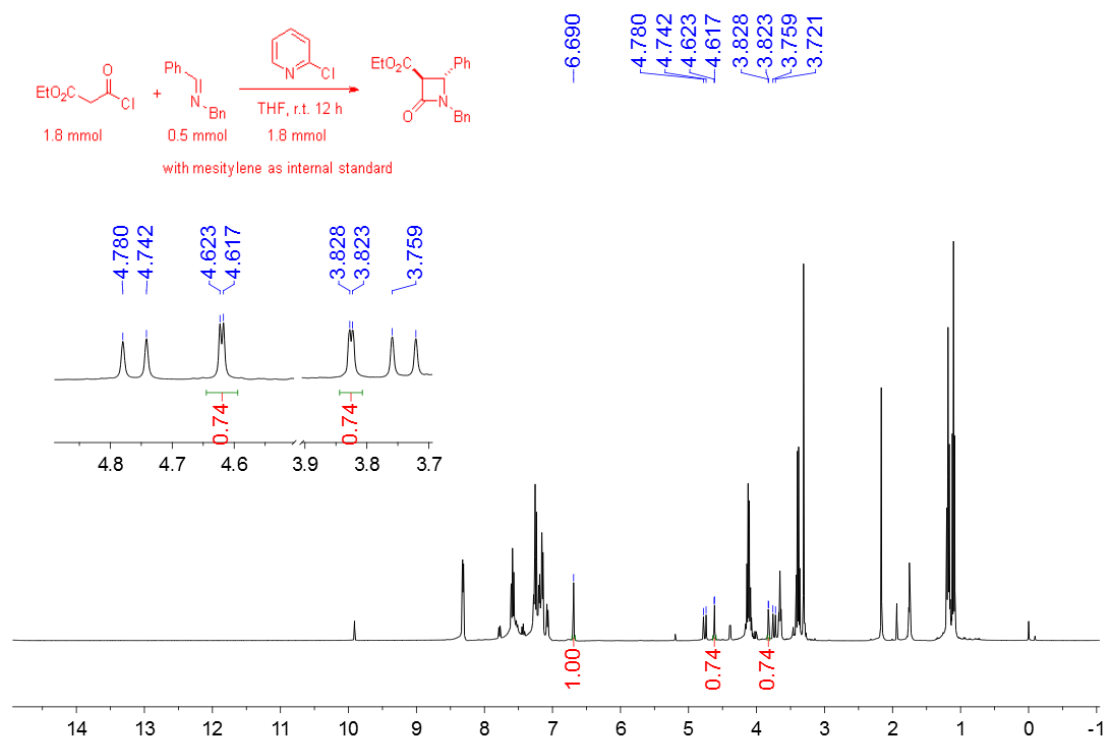
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Entry 29 in Table 1

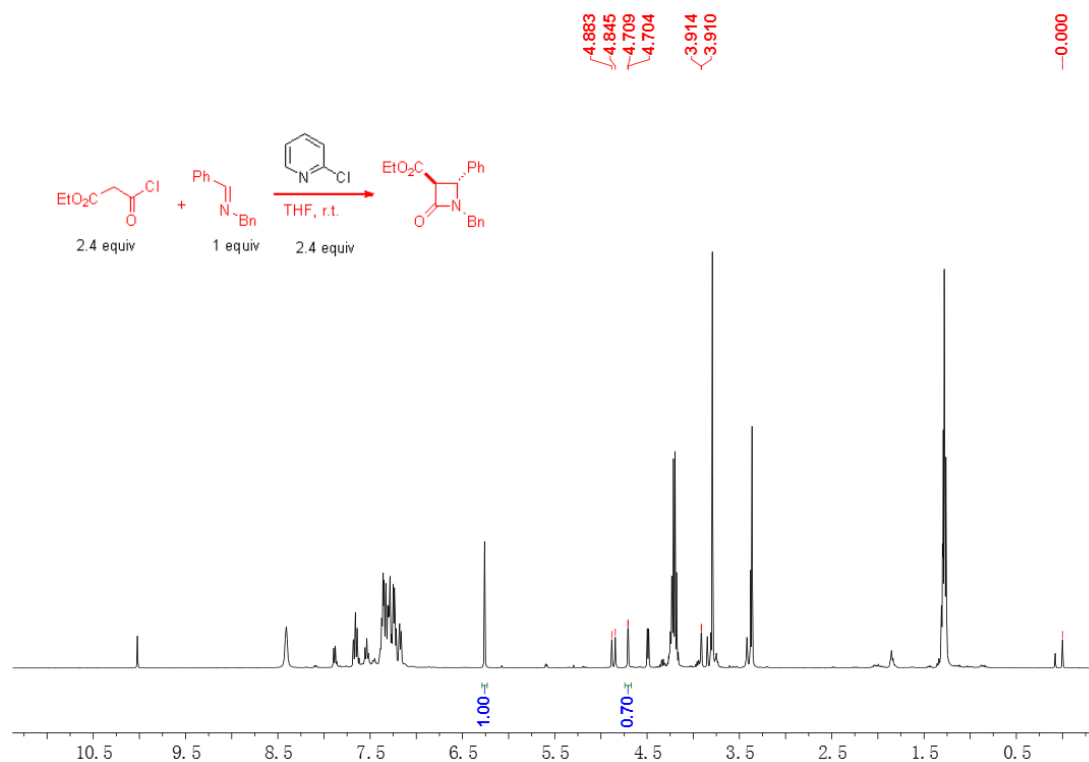


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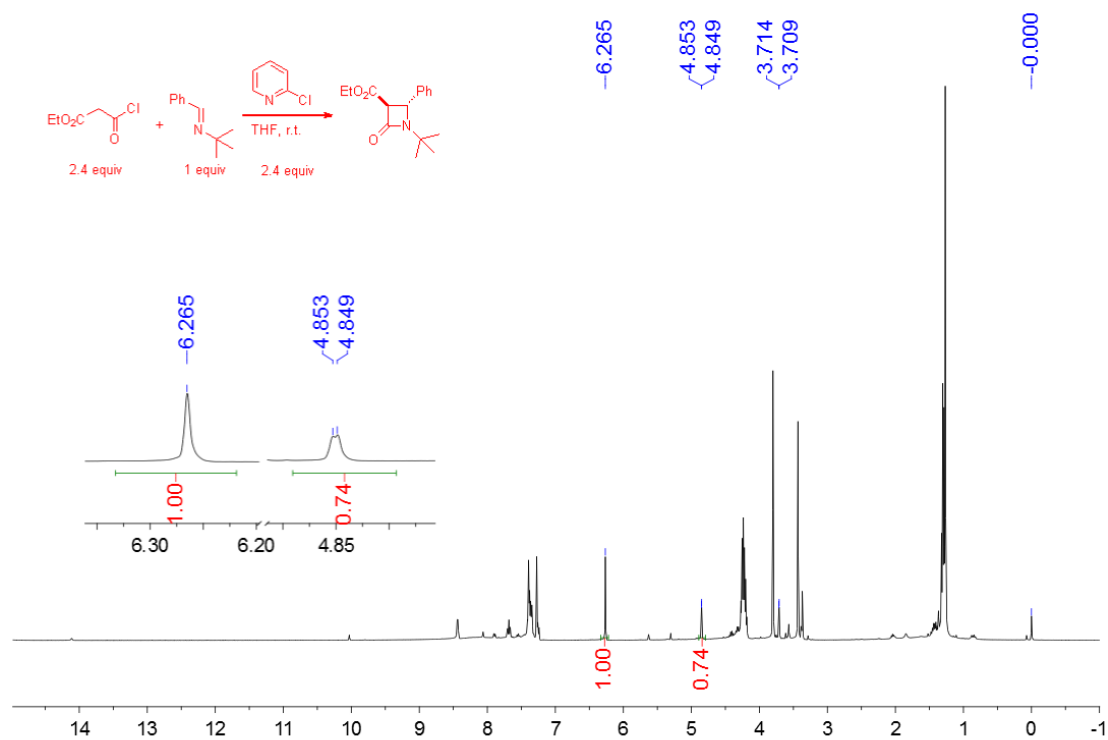


Representative ^1H NMR spectra of the Crude Reaction Mixtures in Table 2.

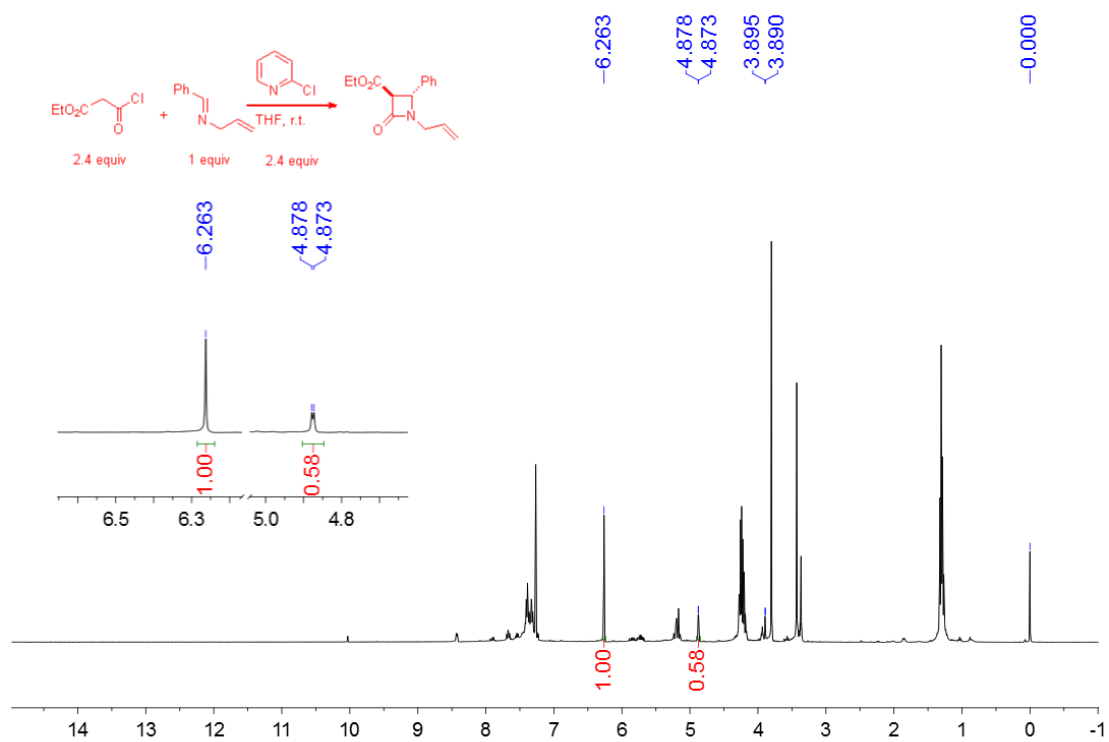
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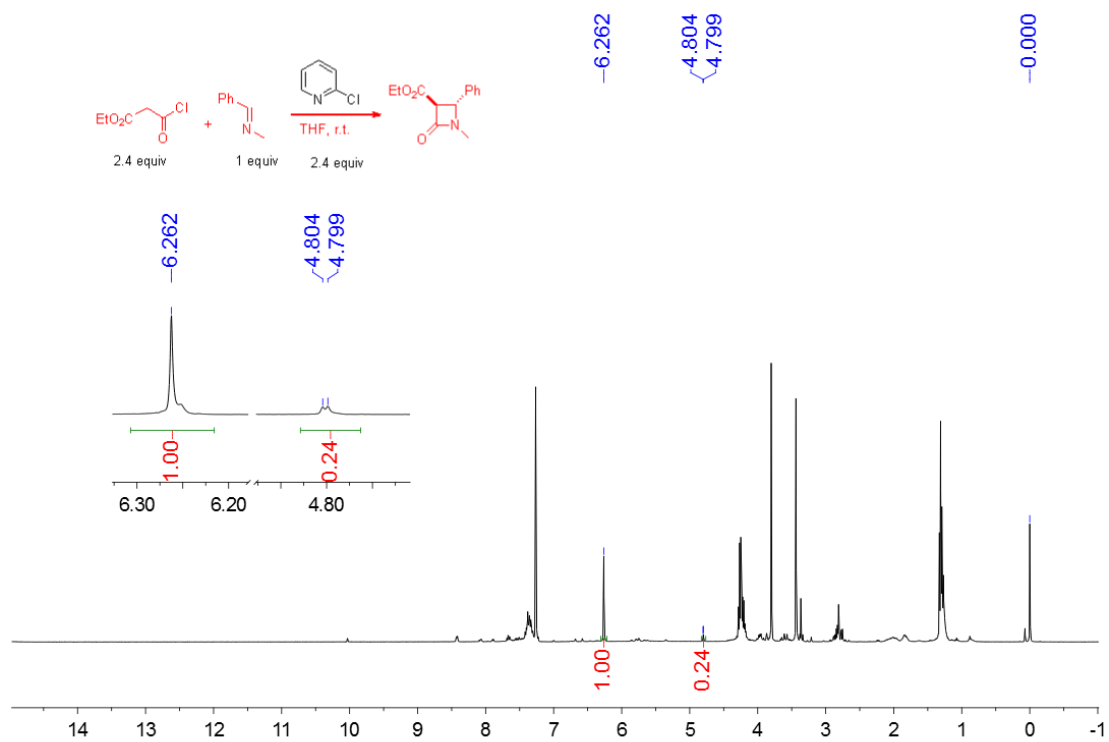
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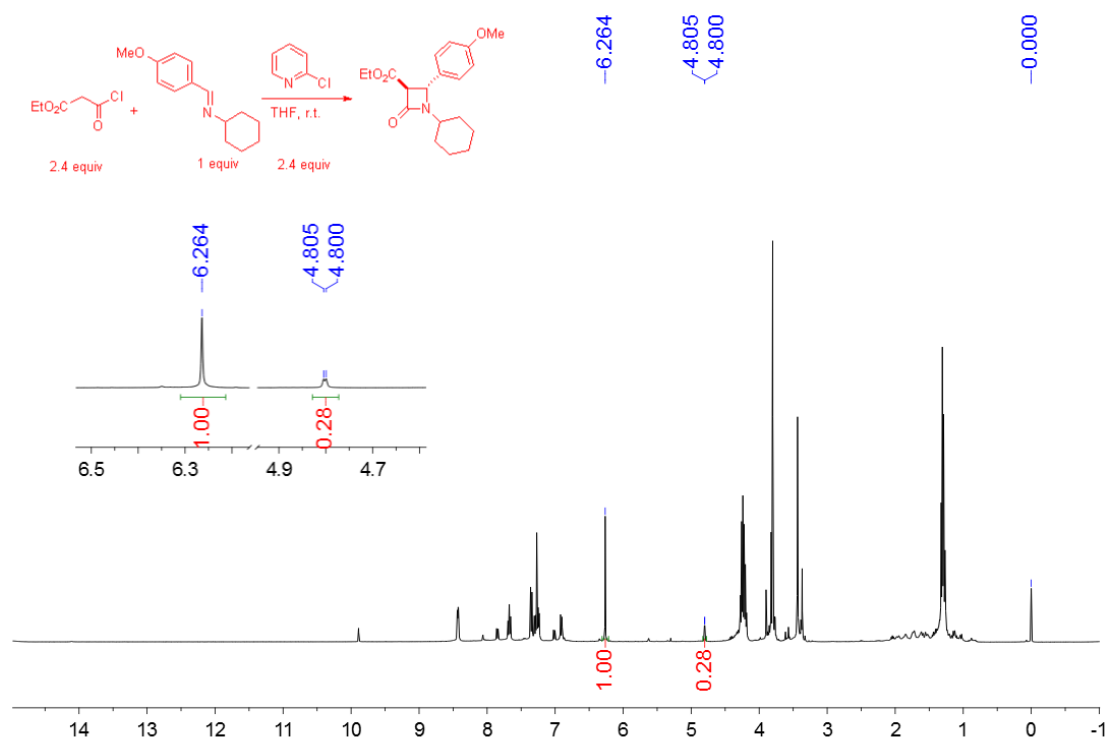
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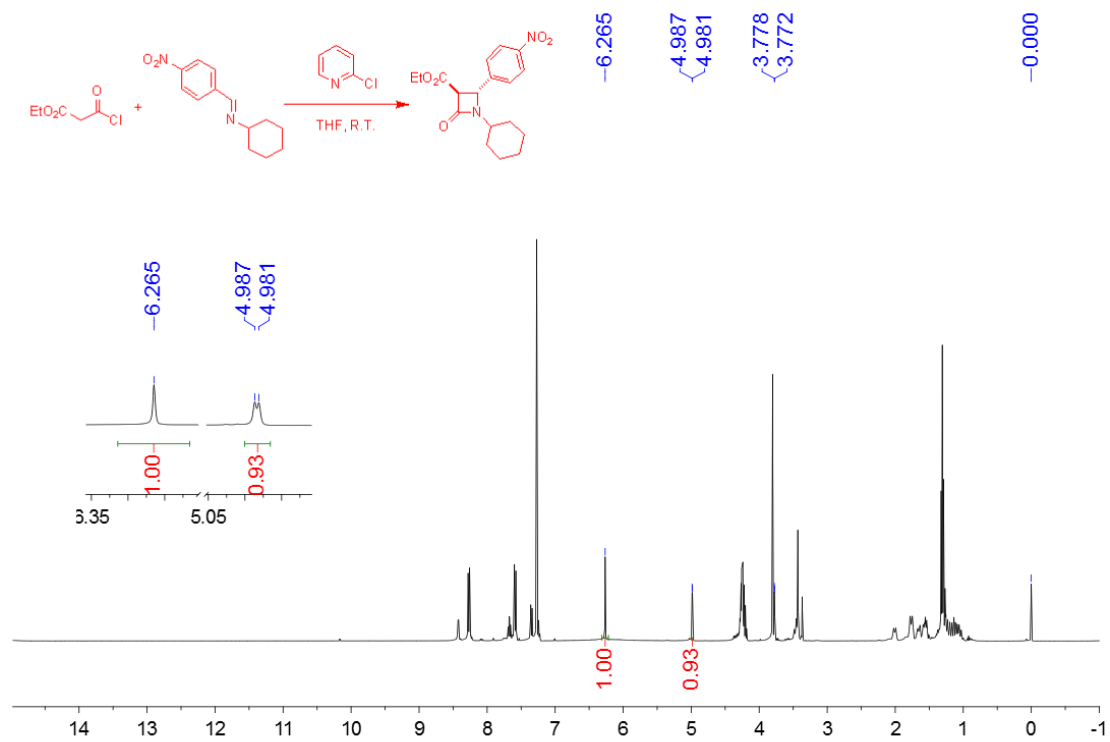
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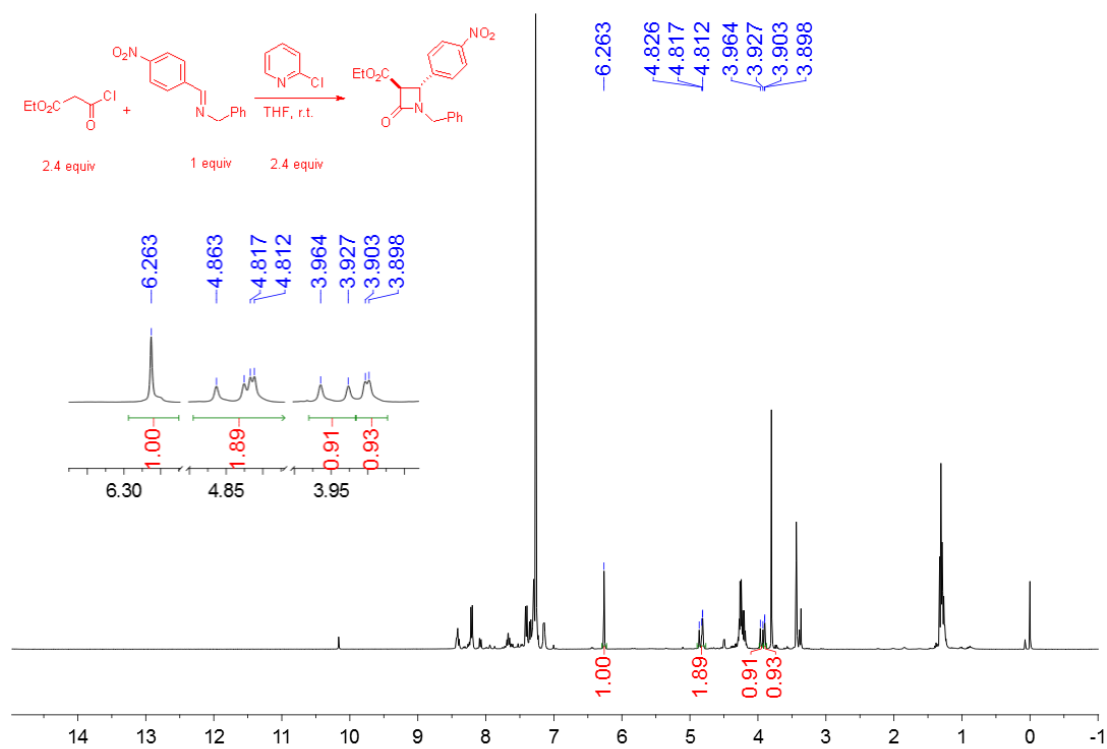
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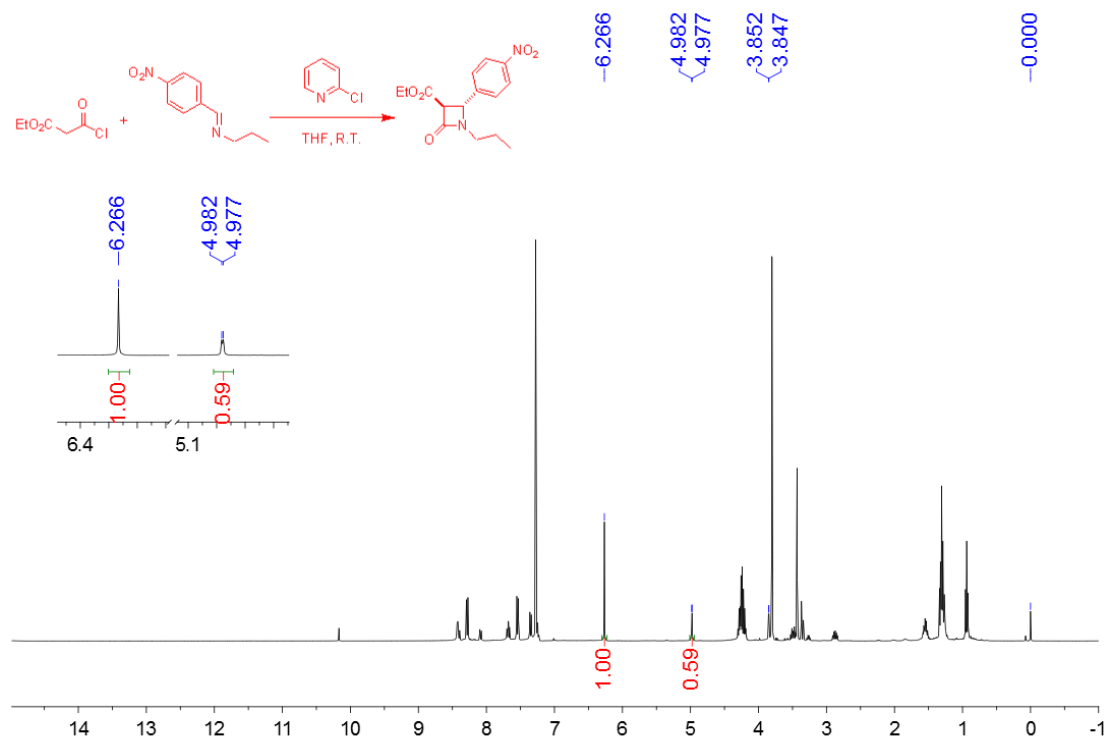
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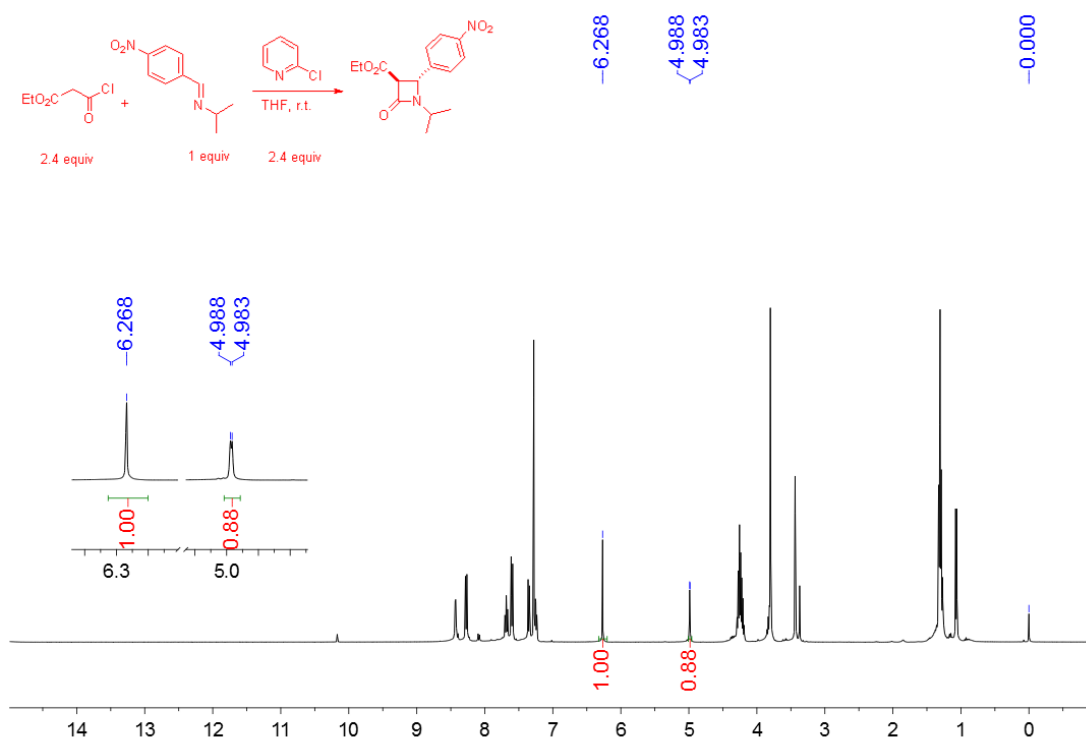
Entry 7 in Table 2



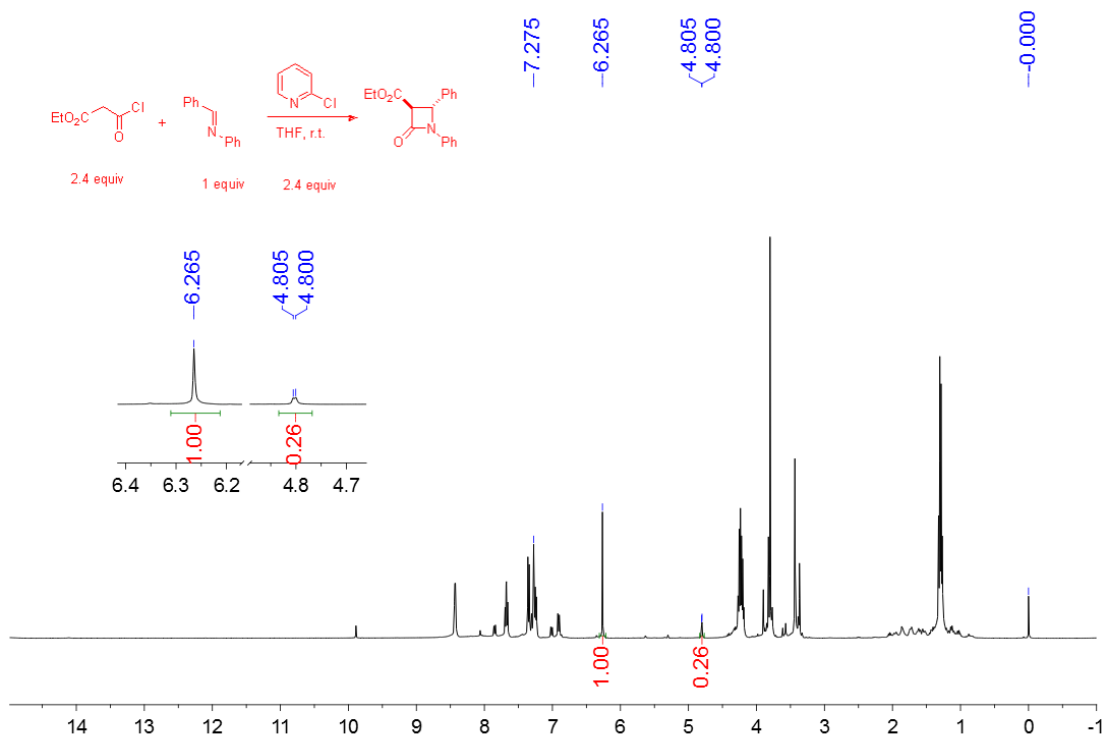
Entry 8 in Table 2



Entry 9 in Table 2

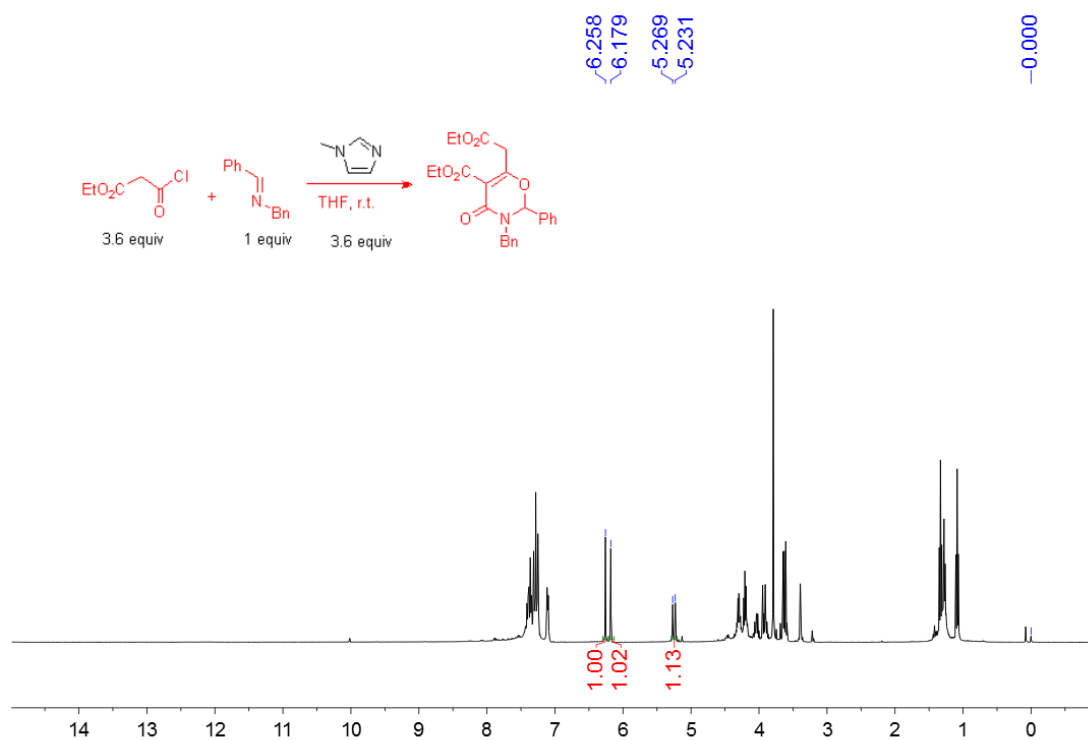


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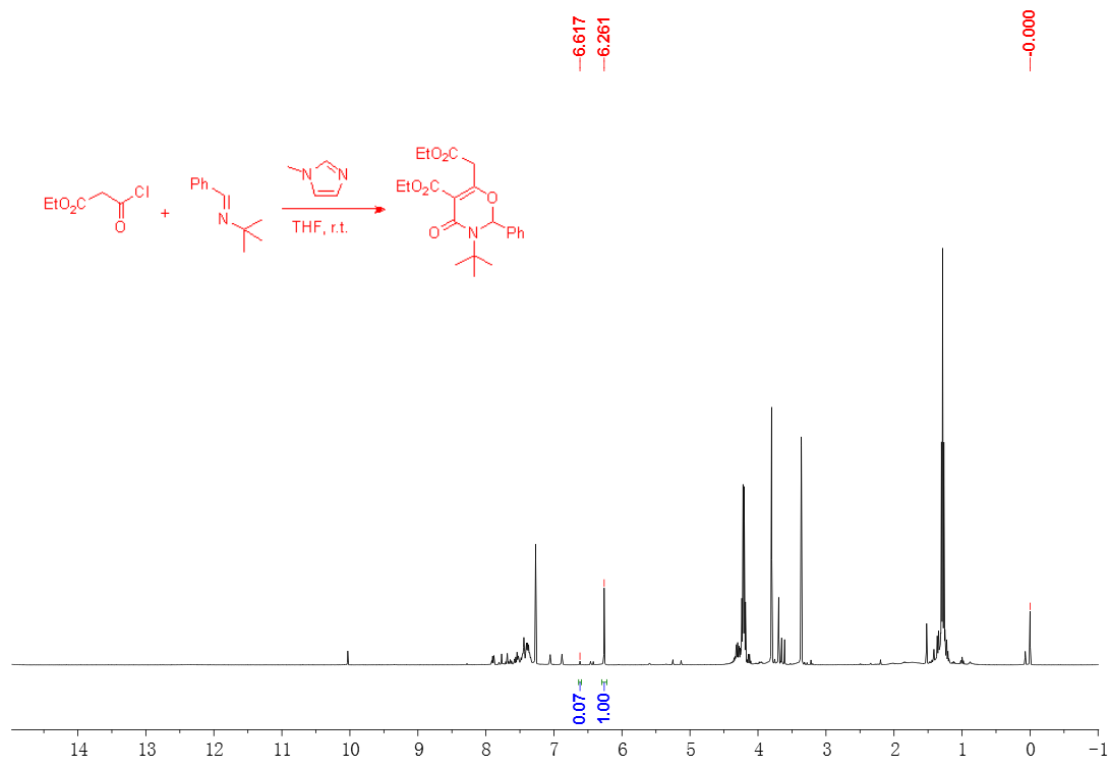


¹H NMR Spectra of the Crude Reaction Mixtures in Table 3.

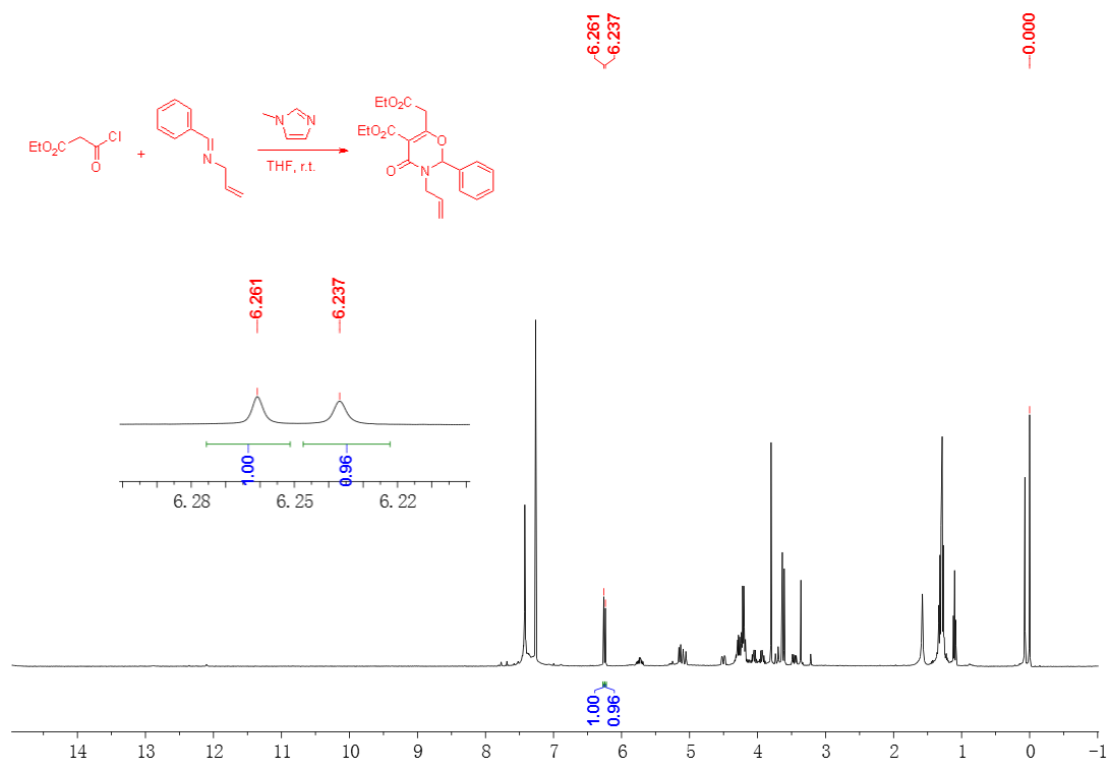
Entry 1 in Table 3



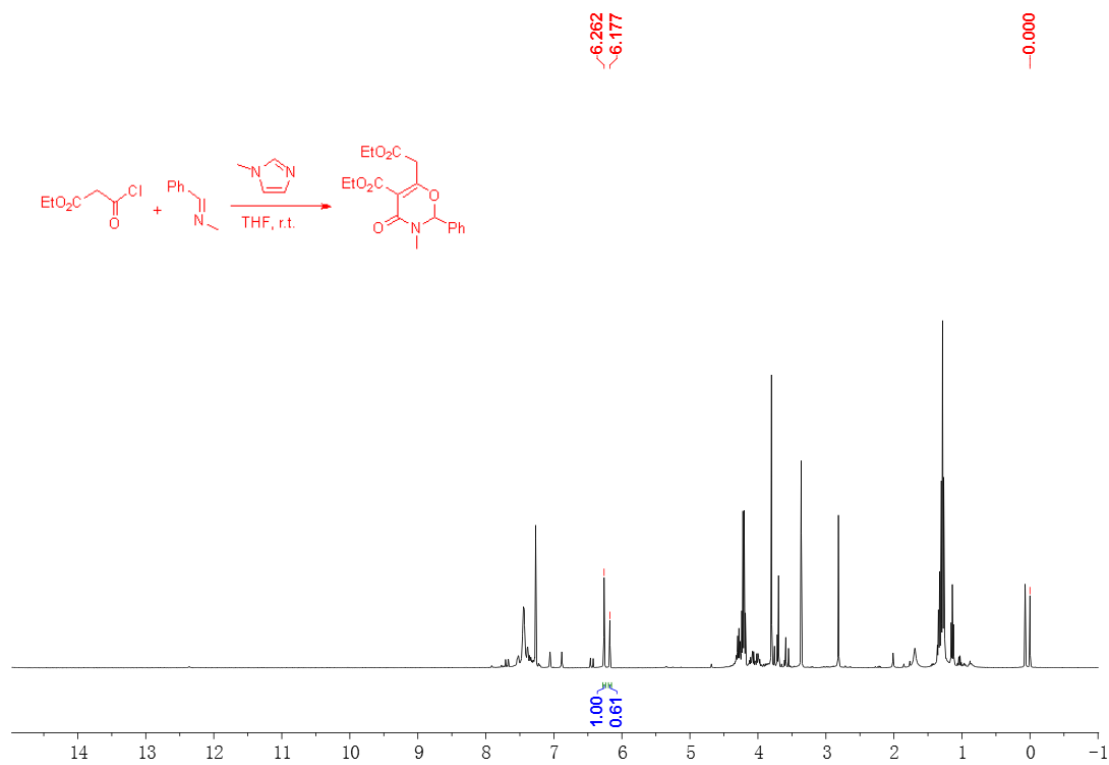
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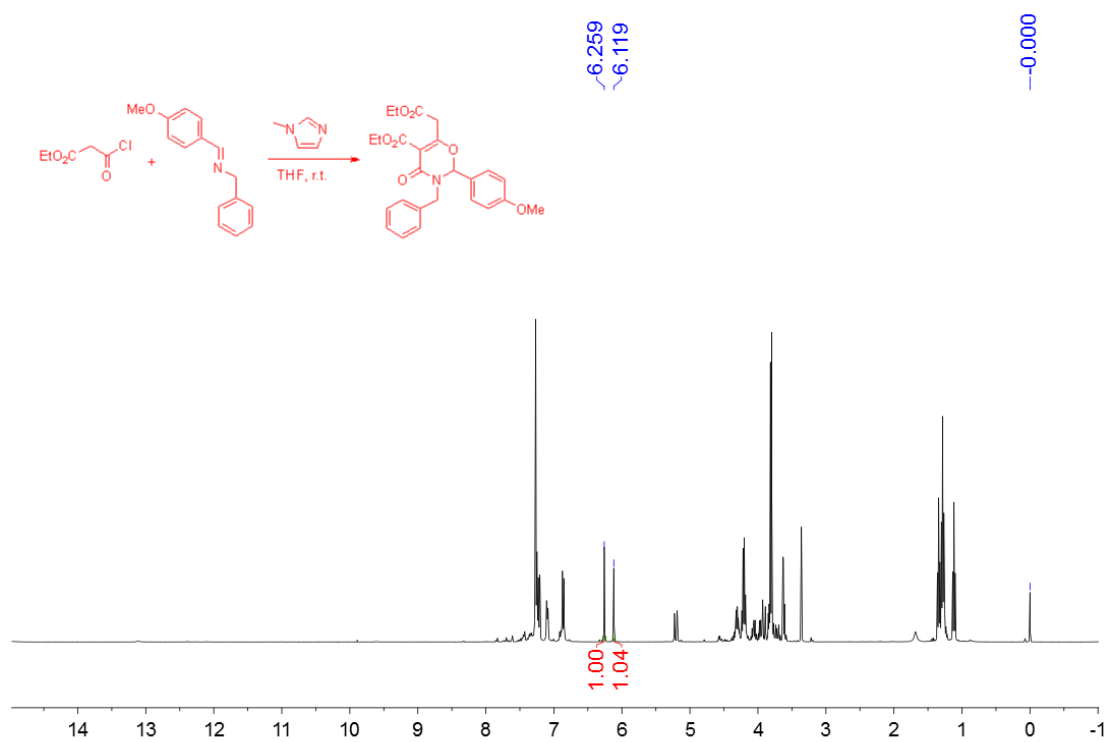
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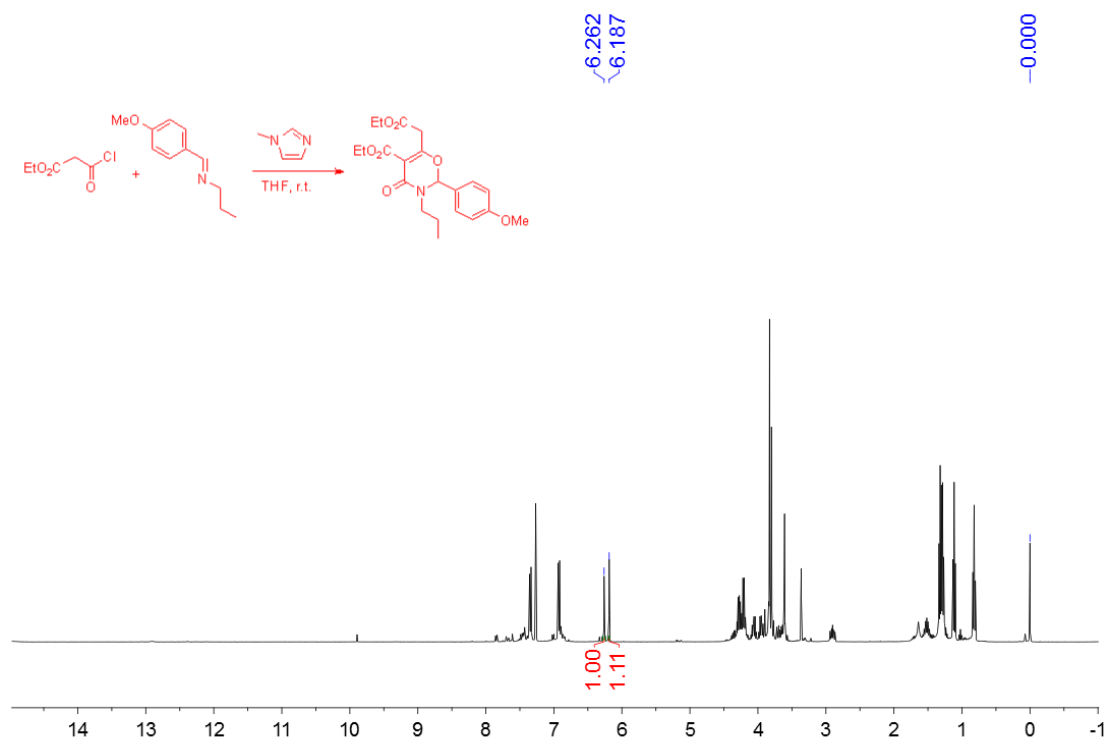
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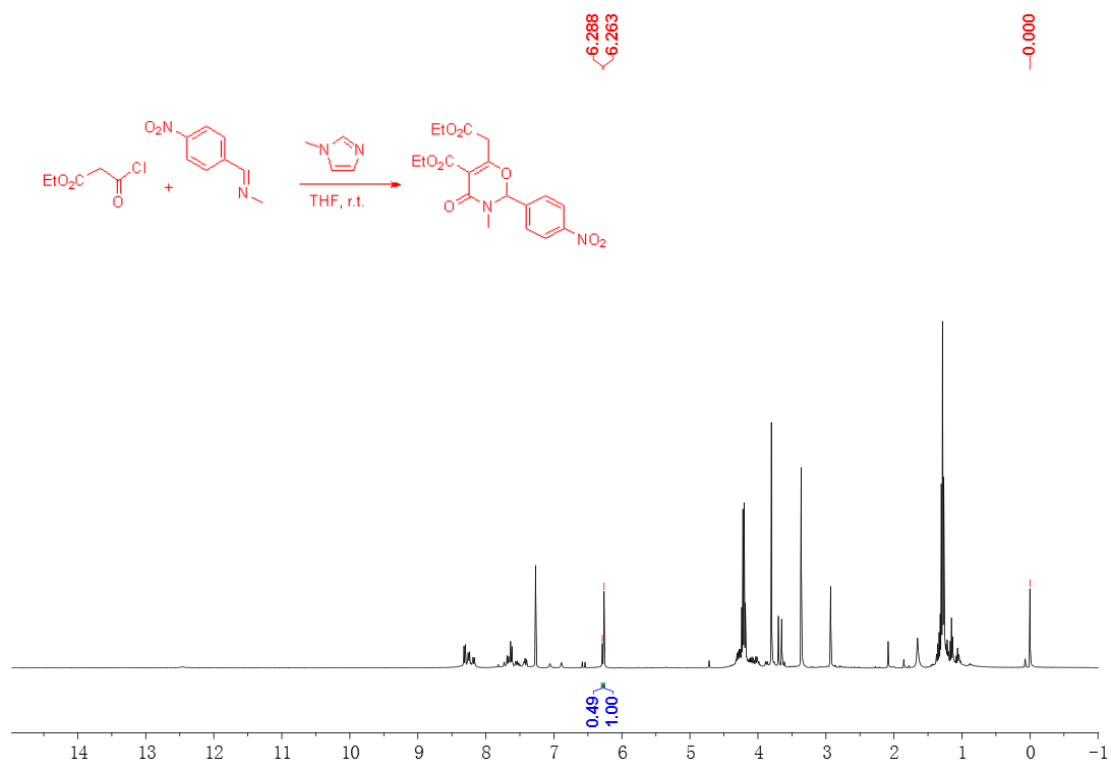
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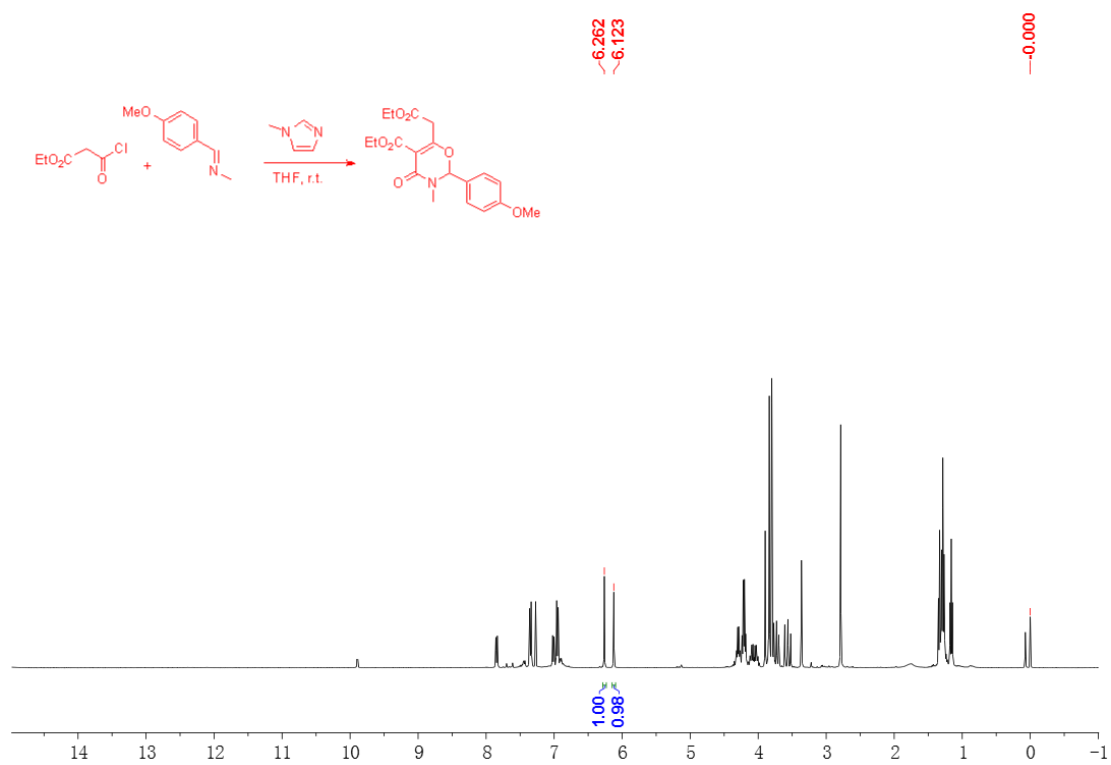
Entry 8 in Table 3



Entry 9 in Table 3



Entry 10 in Table 3



Entry 11 in Table 3

