

**N-Heterocyclic Carbene-Catalyzed Annulation of Cyclic β -Enamino Esters with
Enals: Access to Functionalized Indolo[2,3-a]quinolizidines**

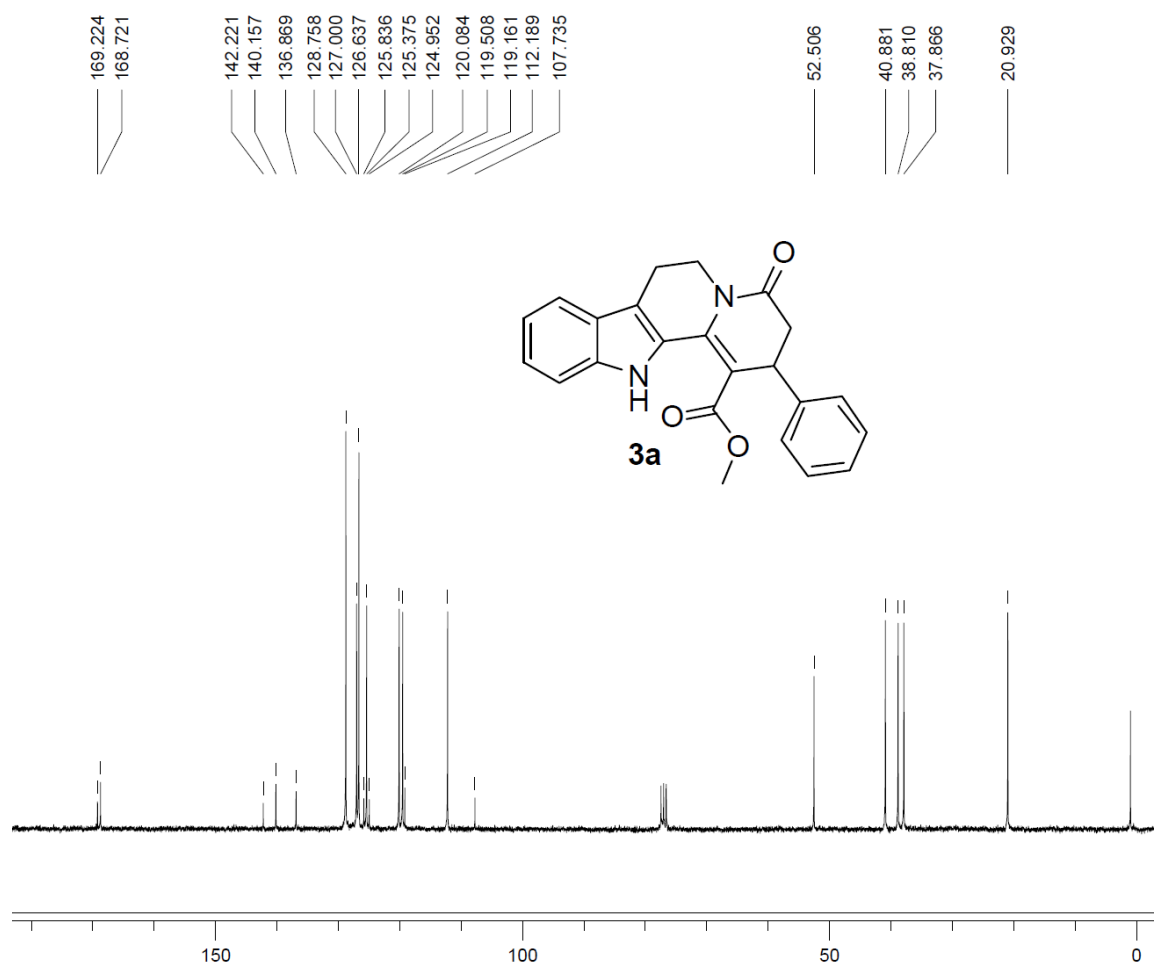
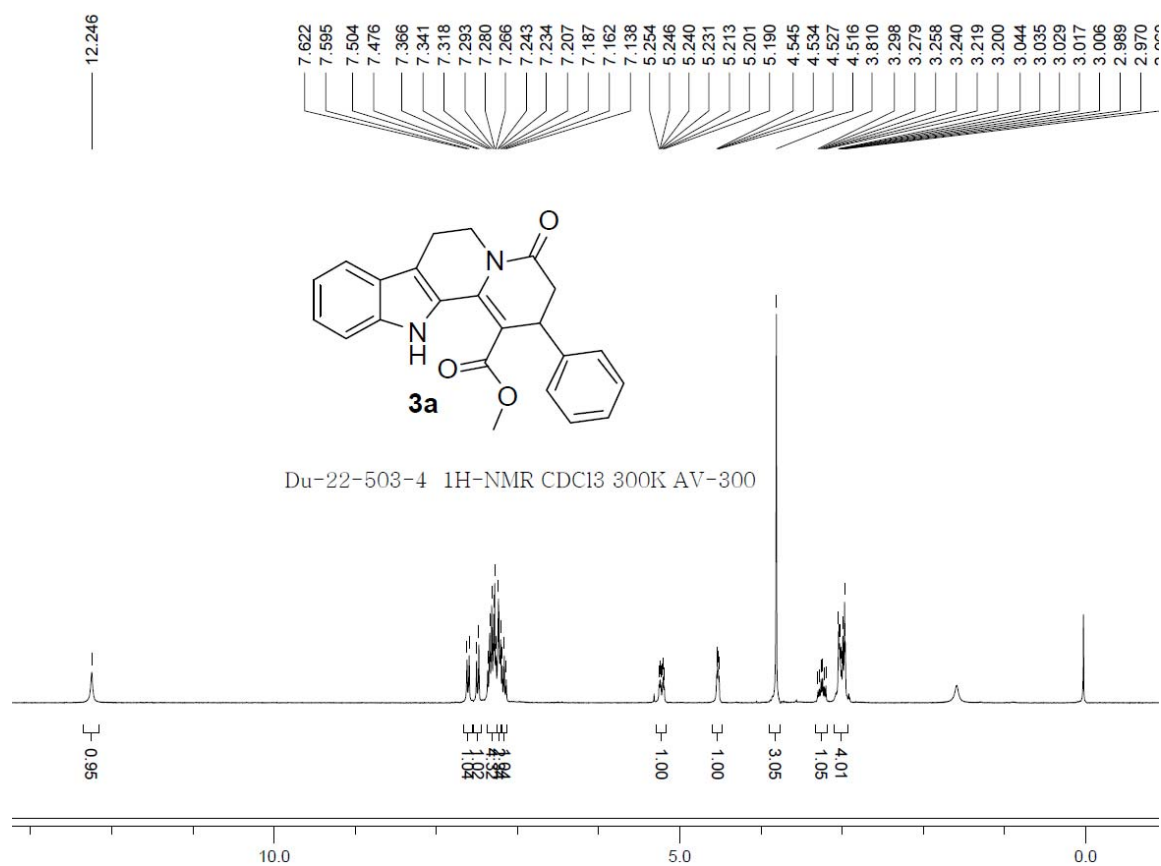
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Du *

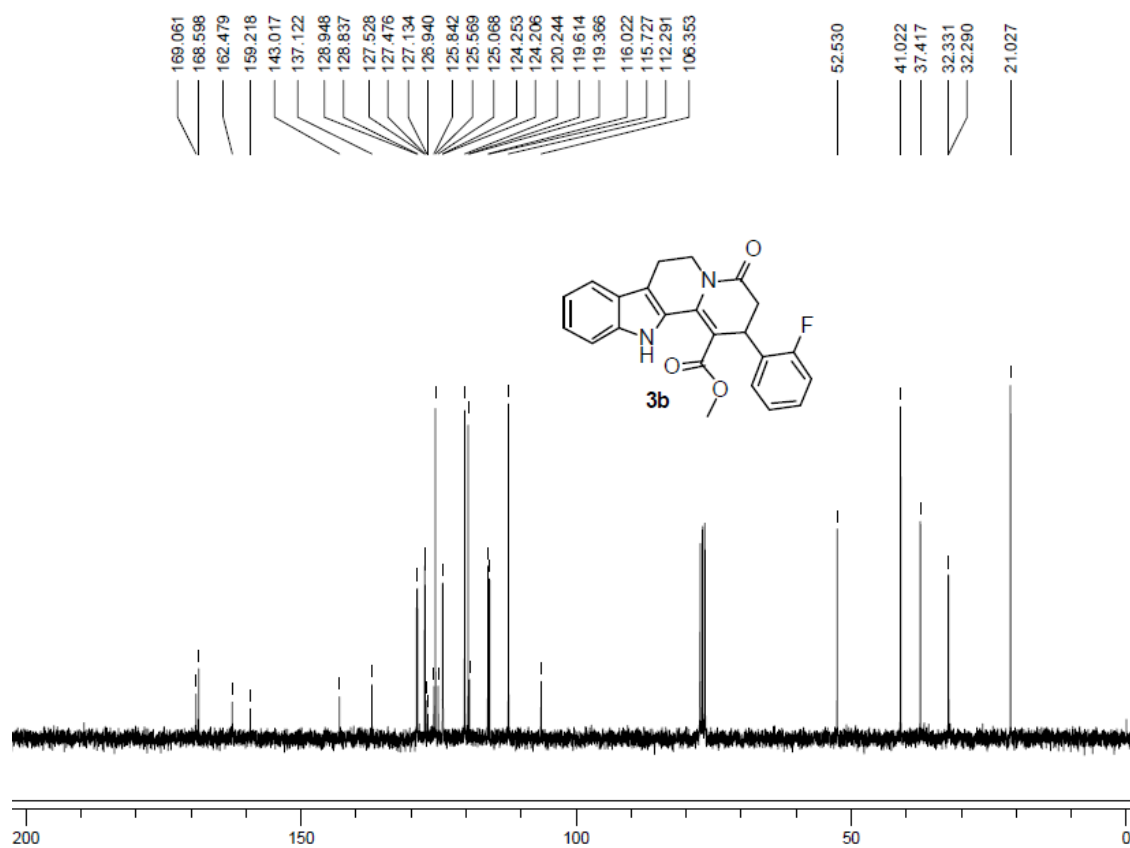
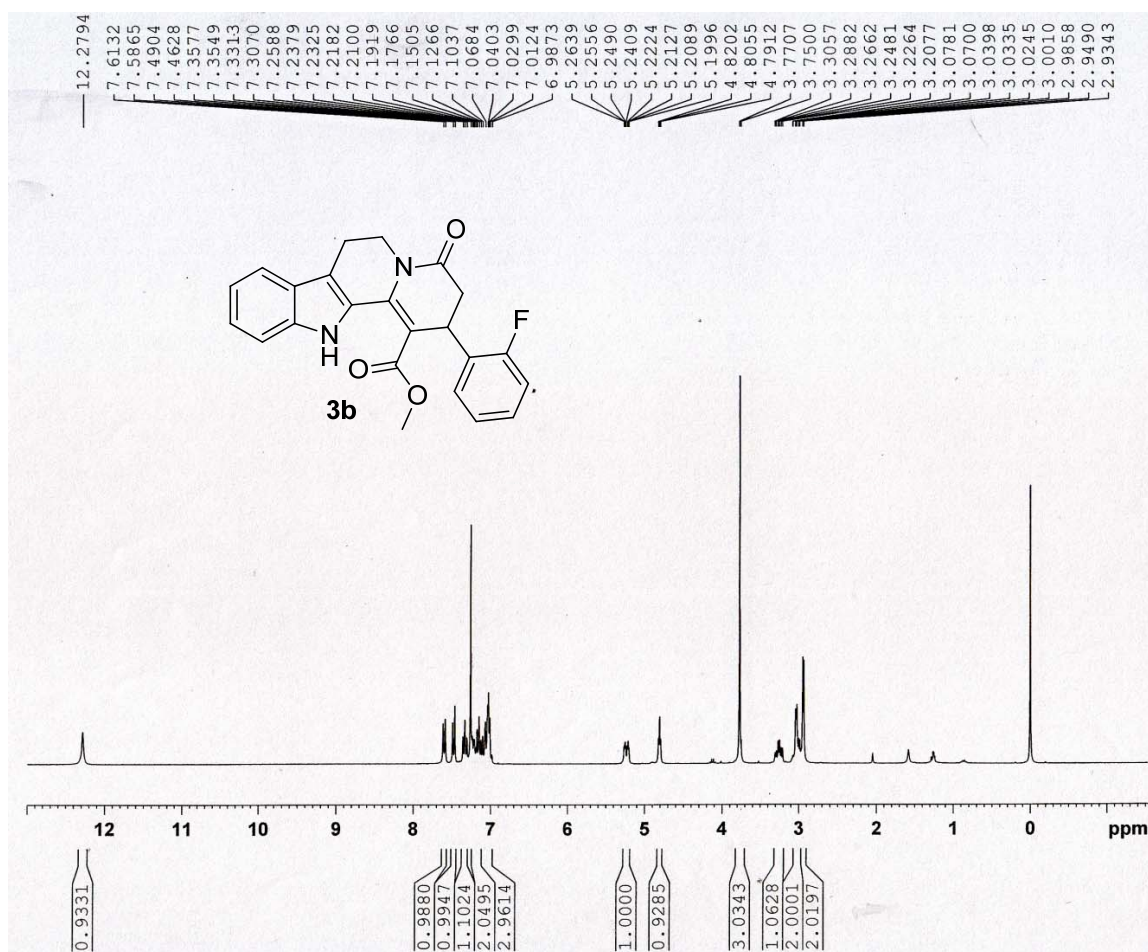
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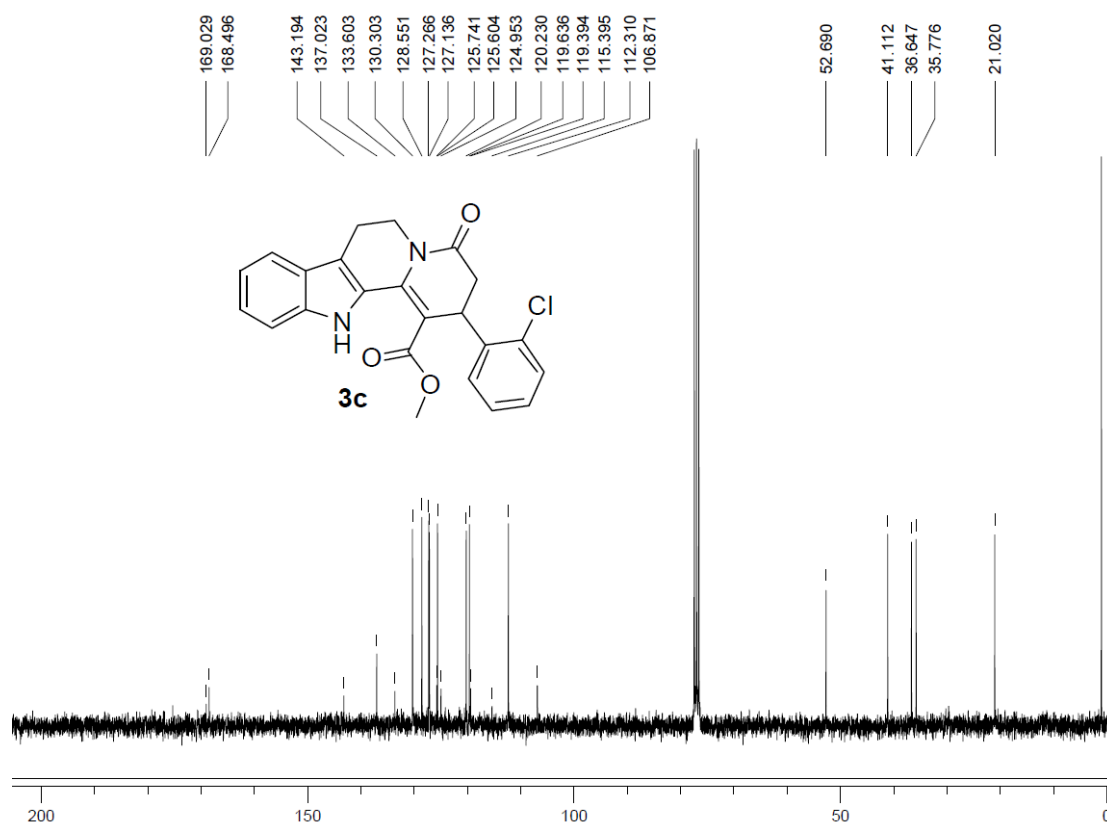
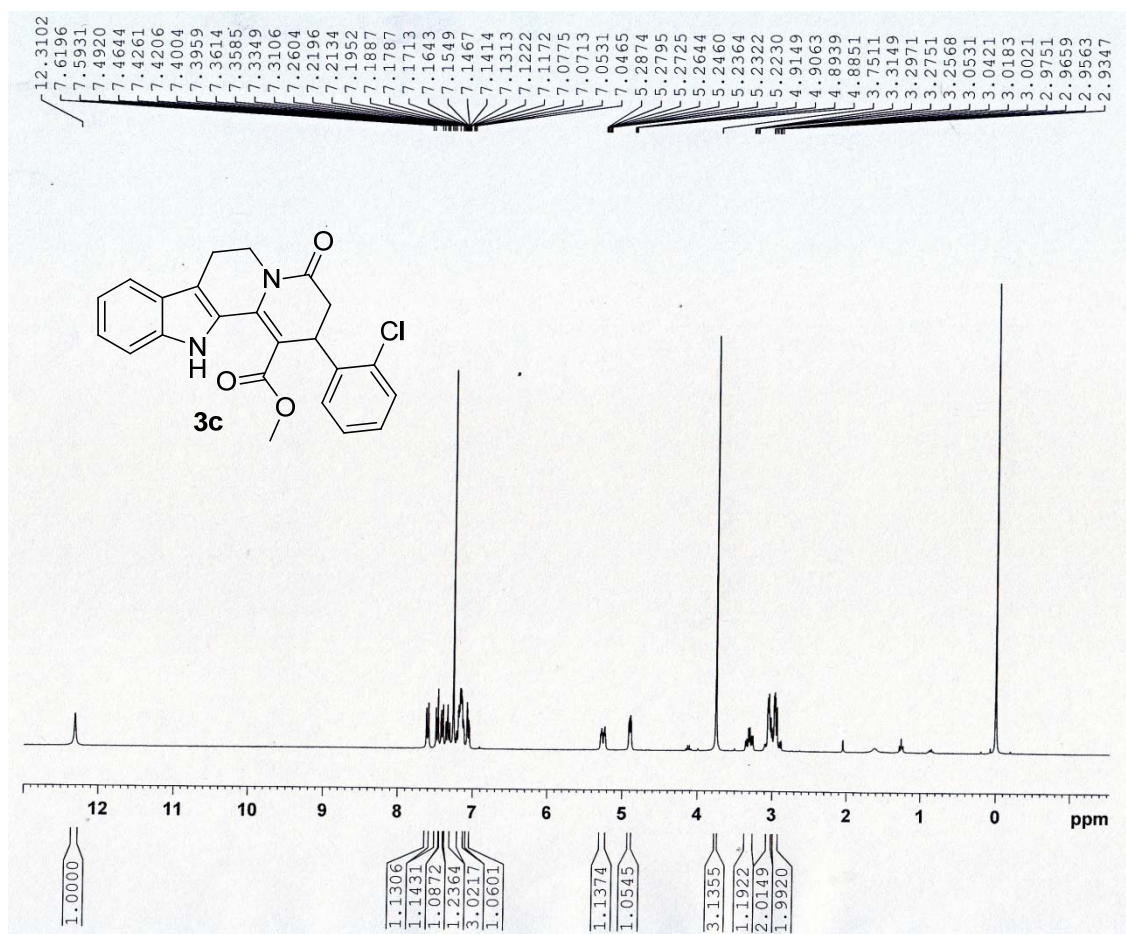
E-mail: lut163@163.com and ddmn9999@cpu.edu.cn

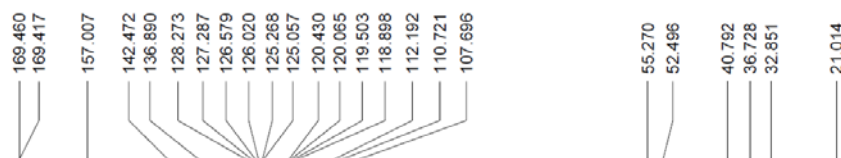
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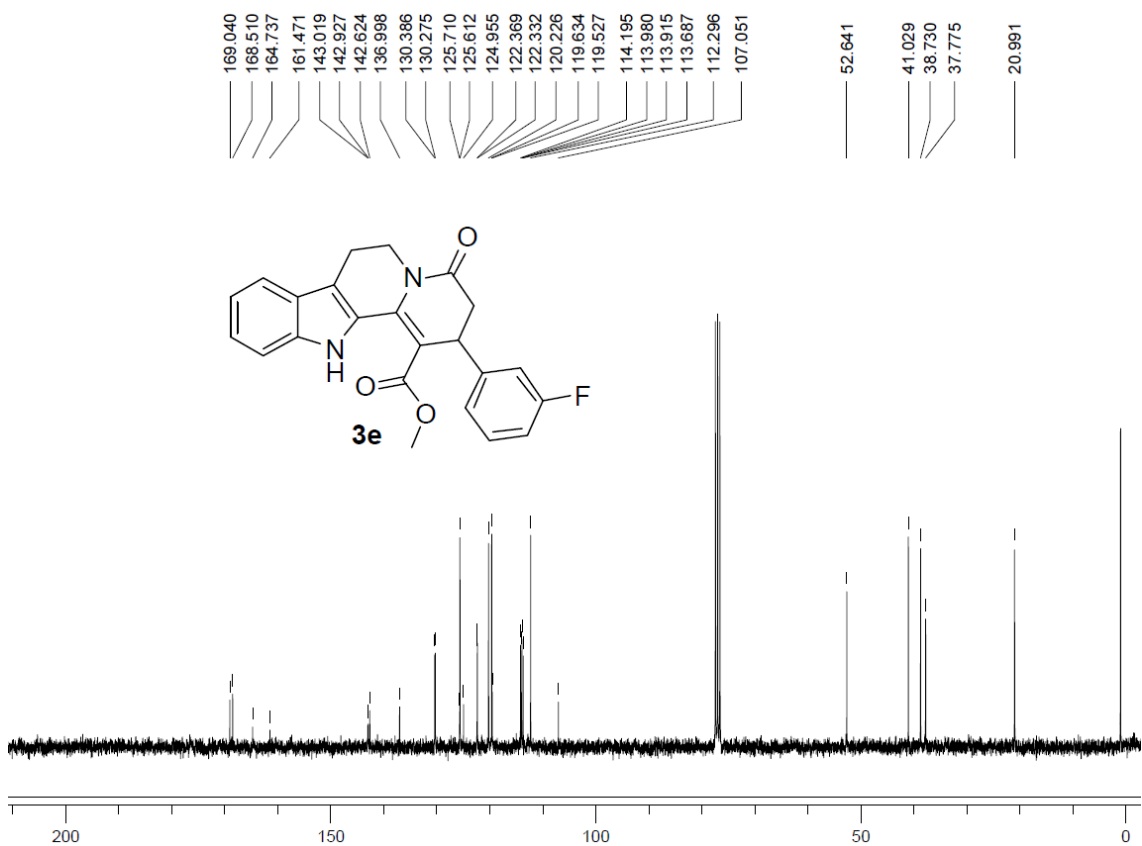
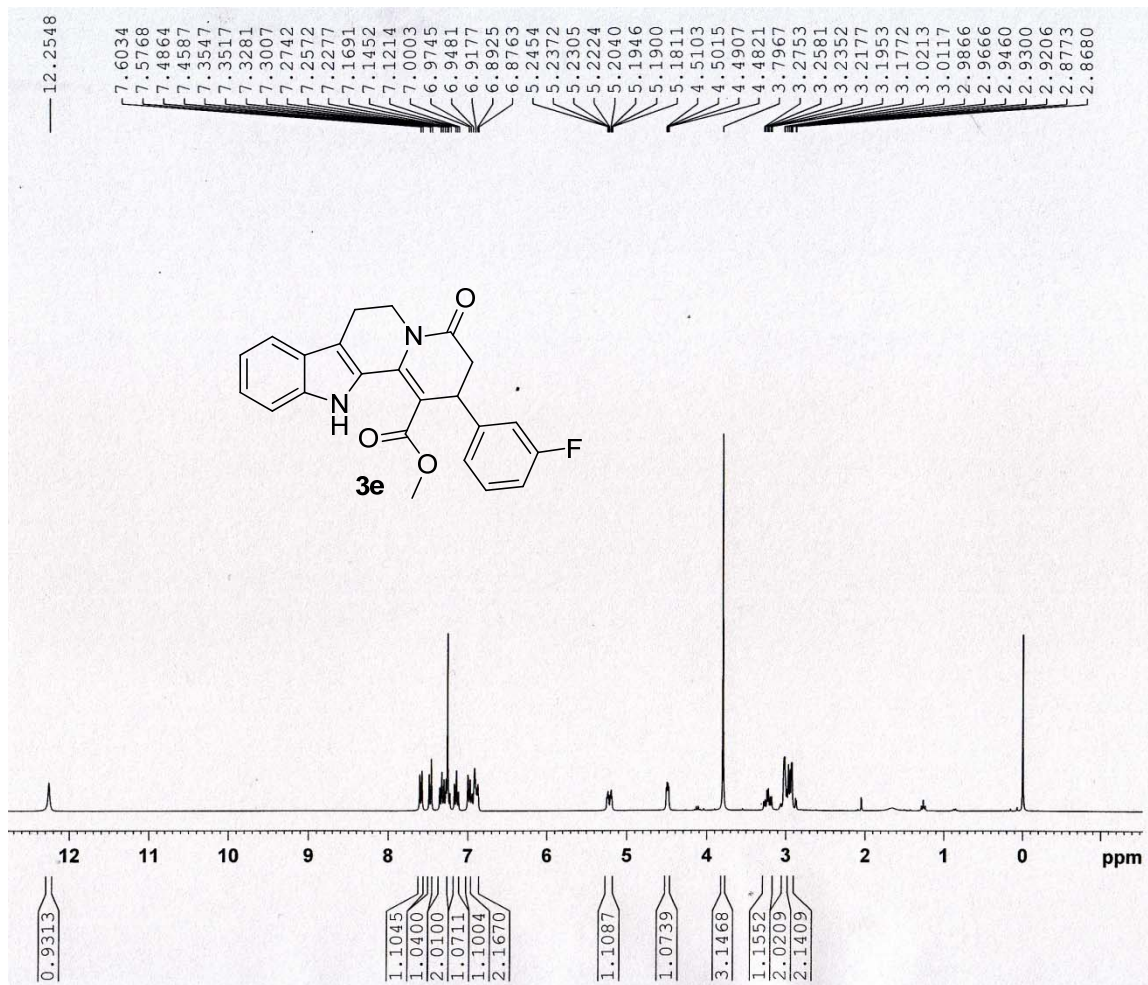
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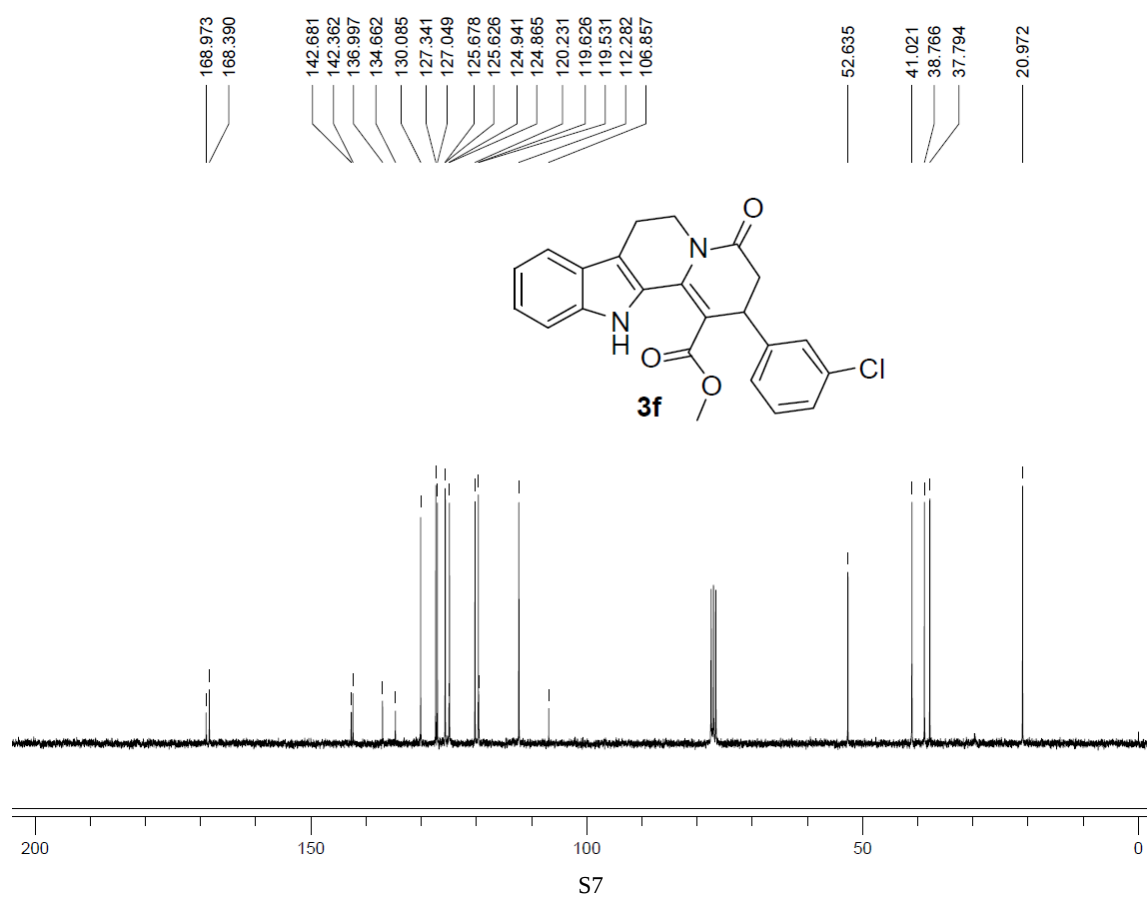
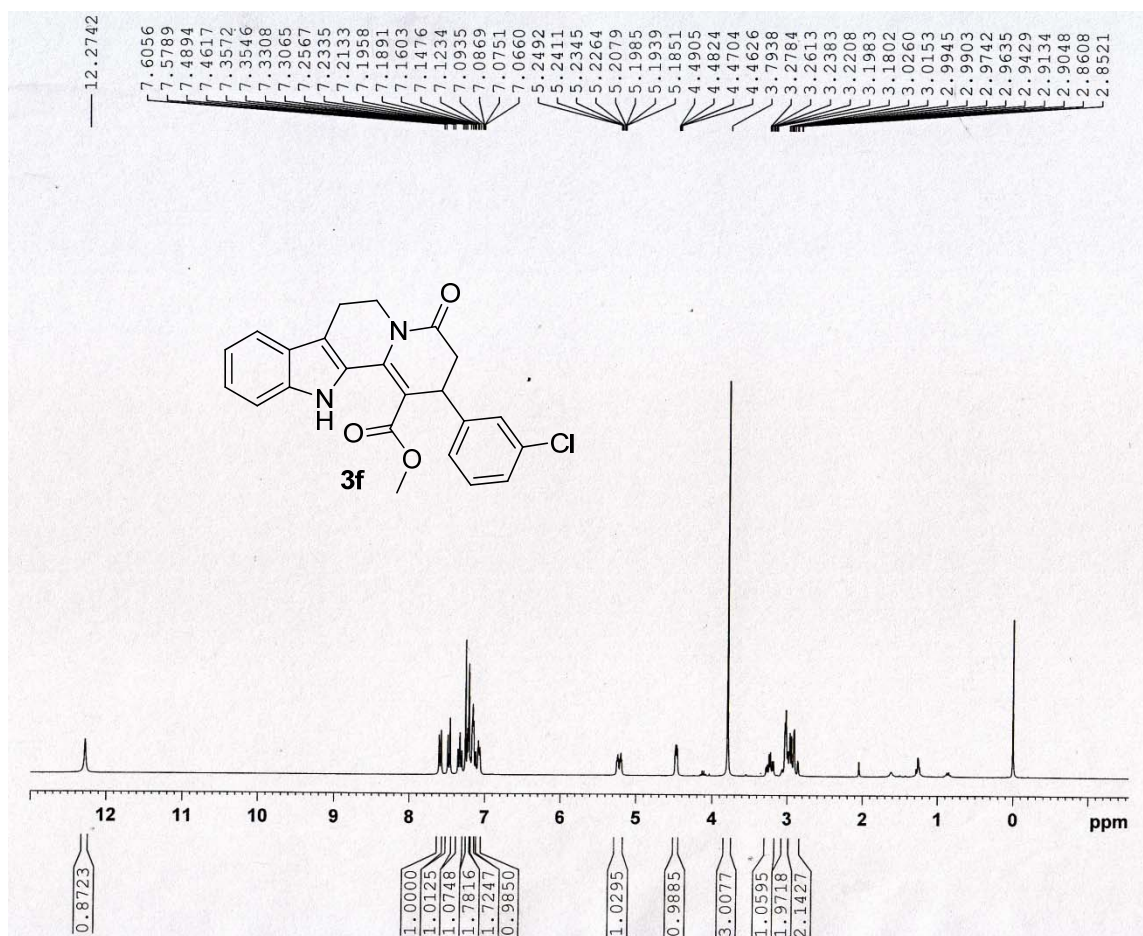


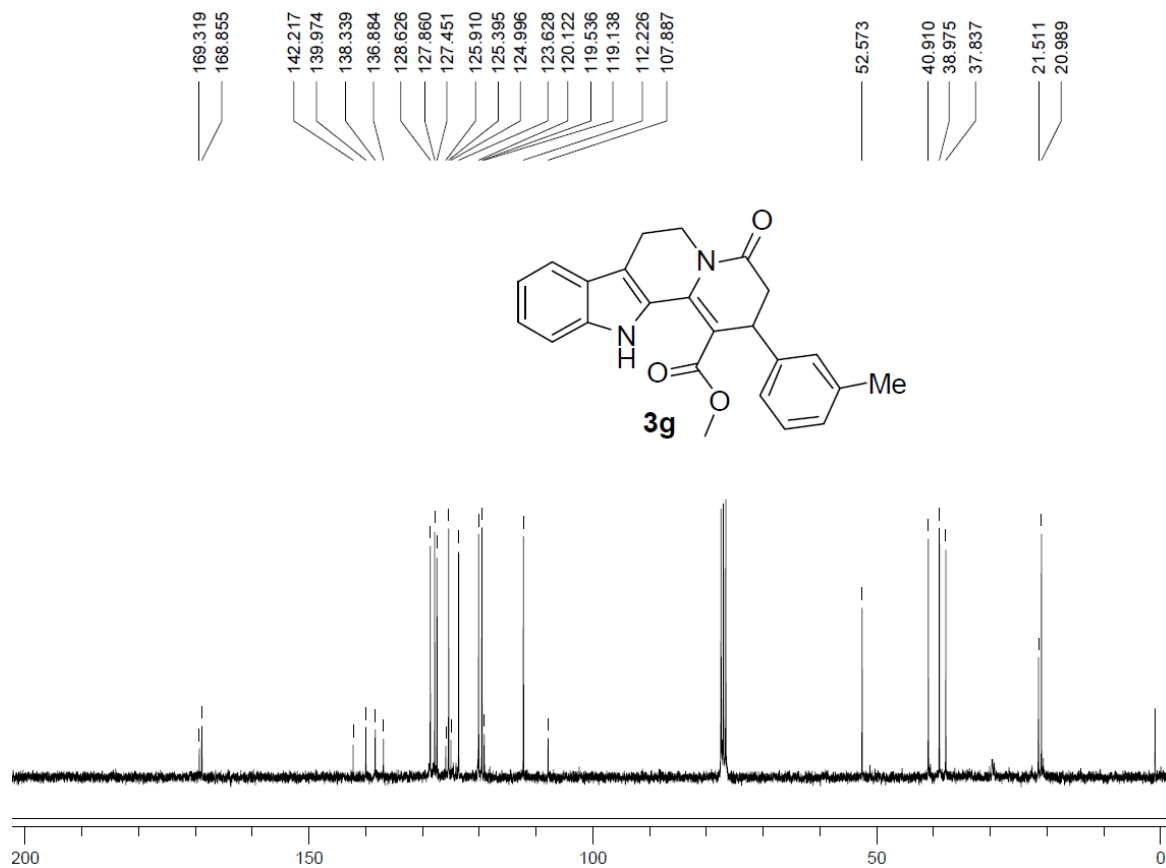
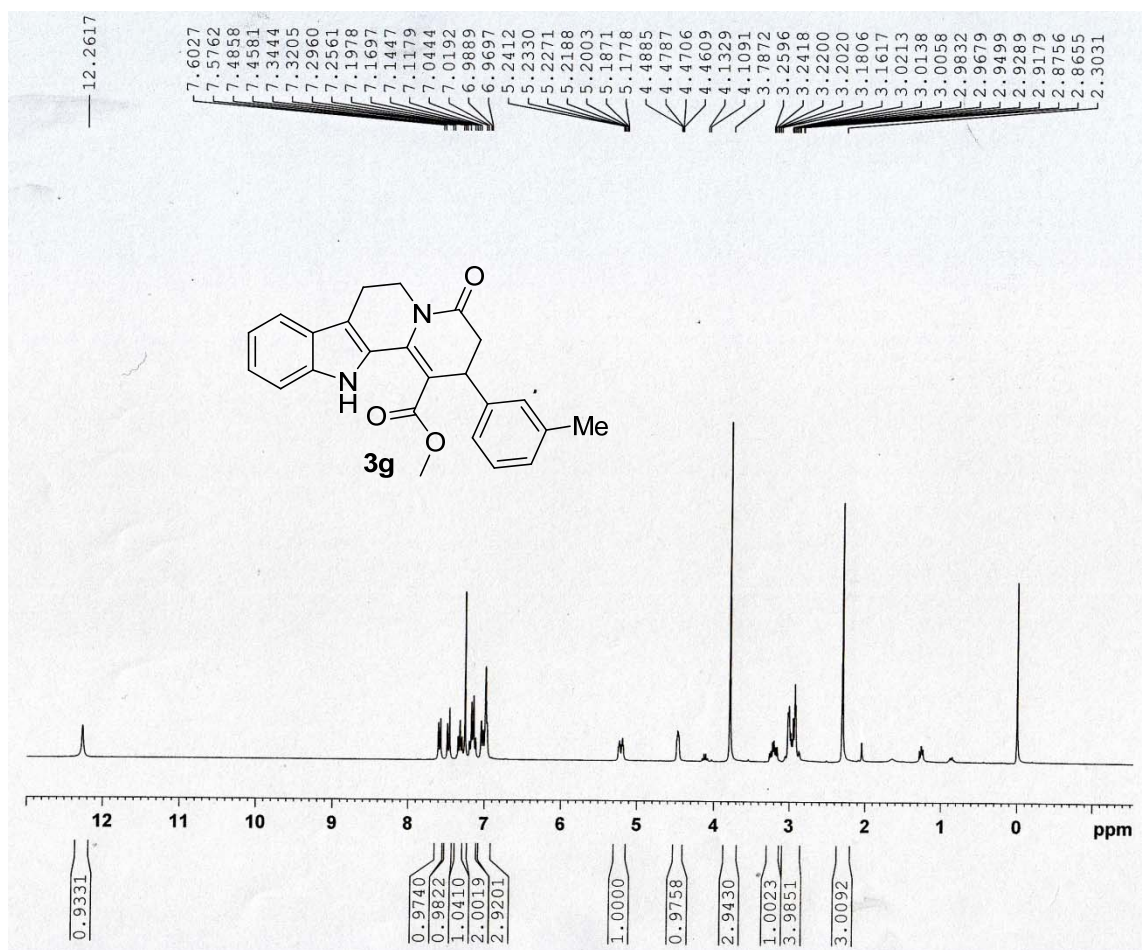


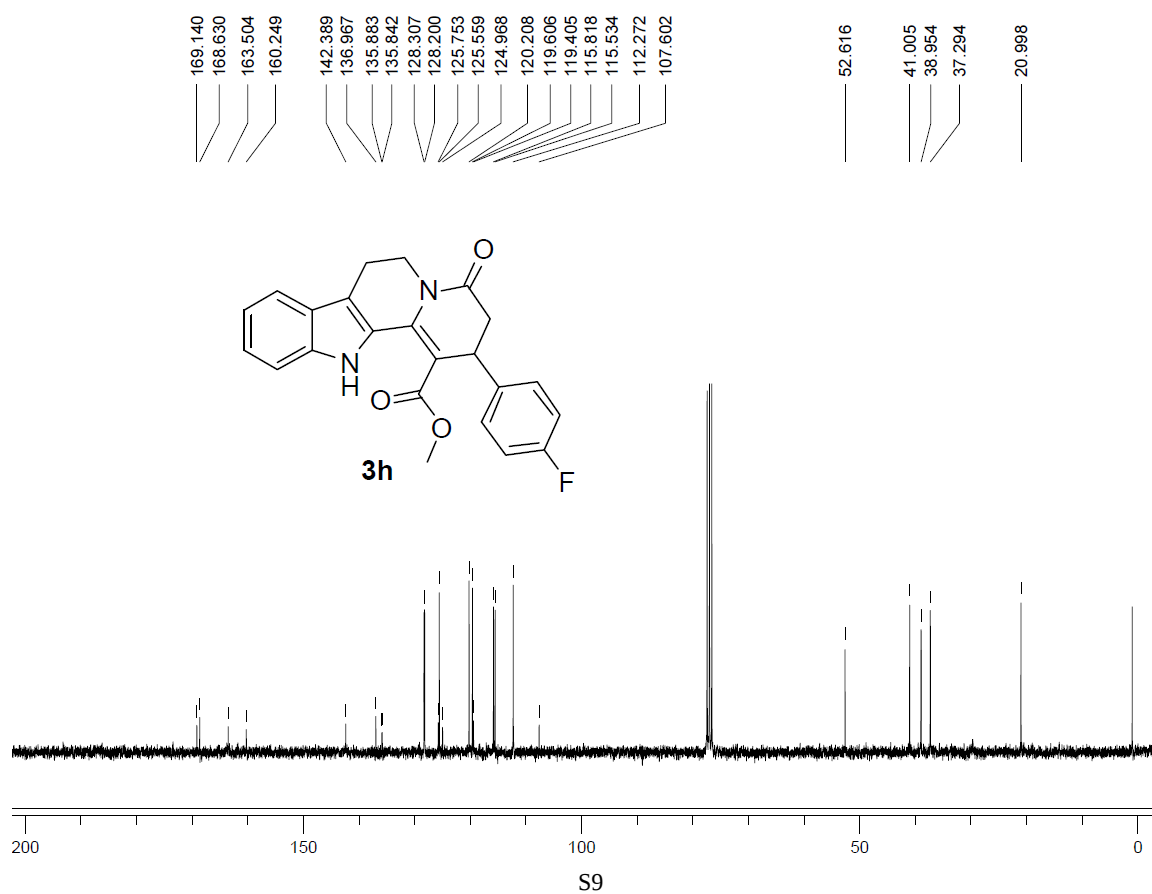
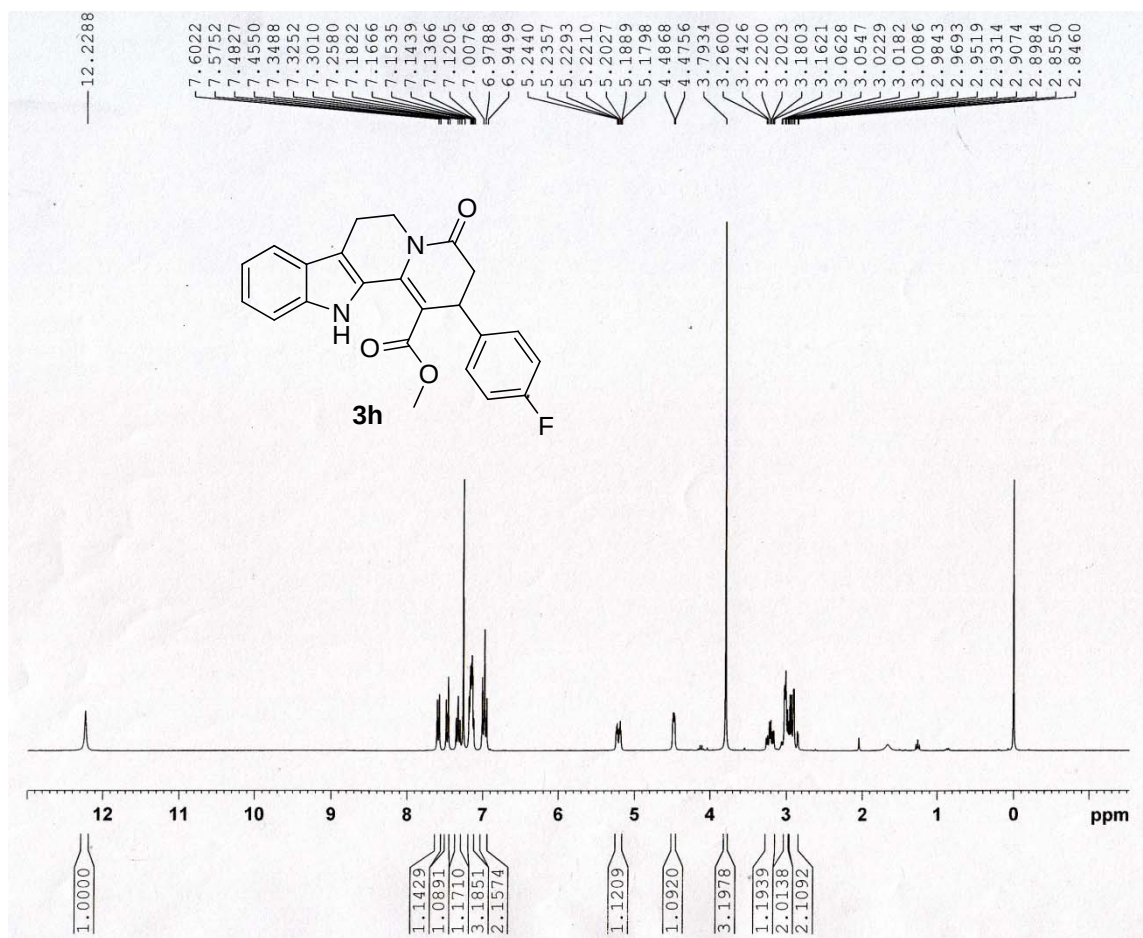


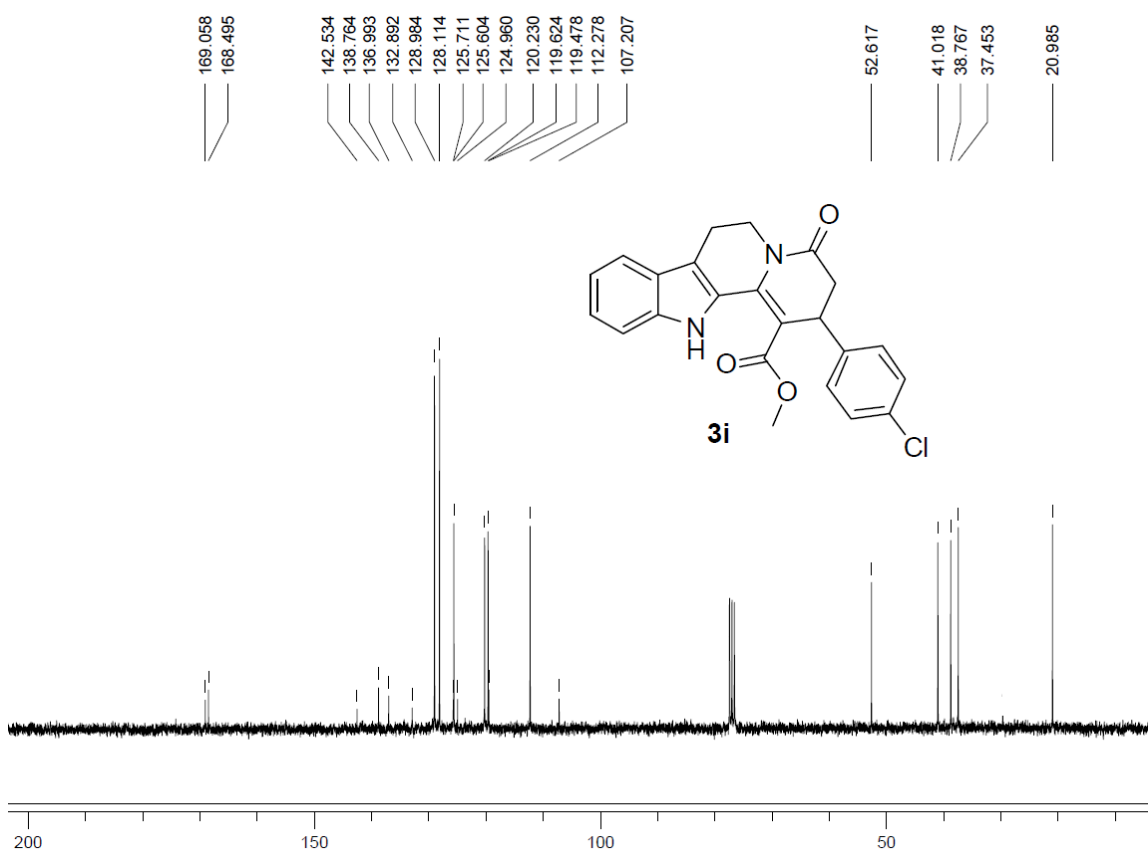
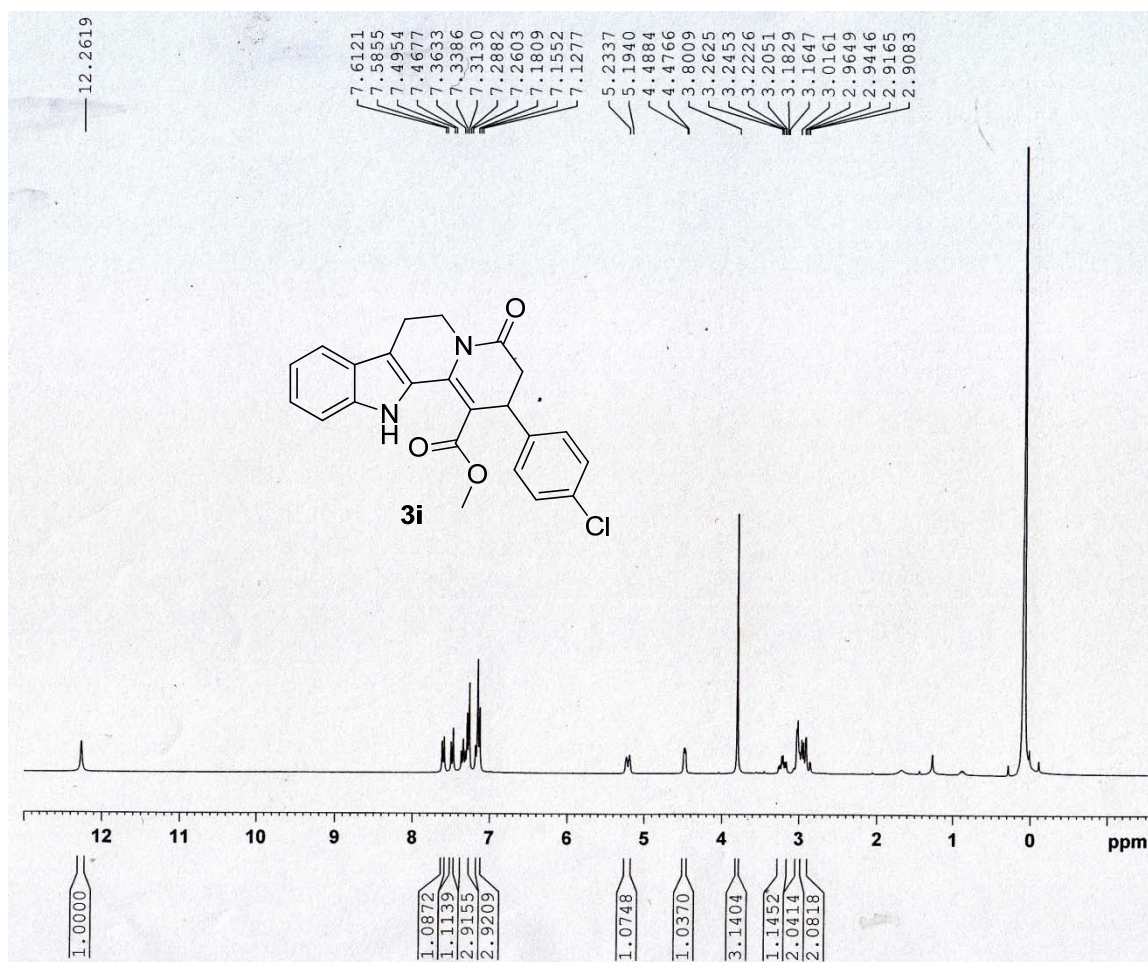


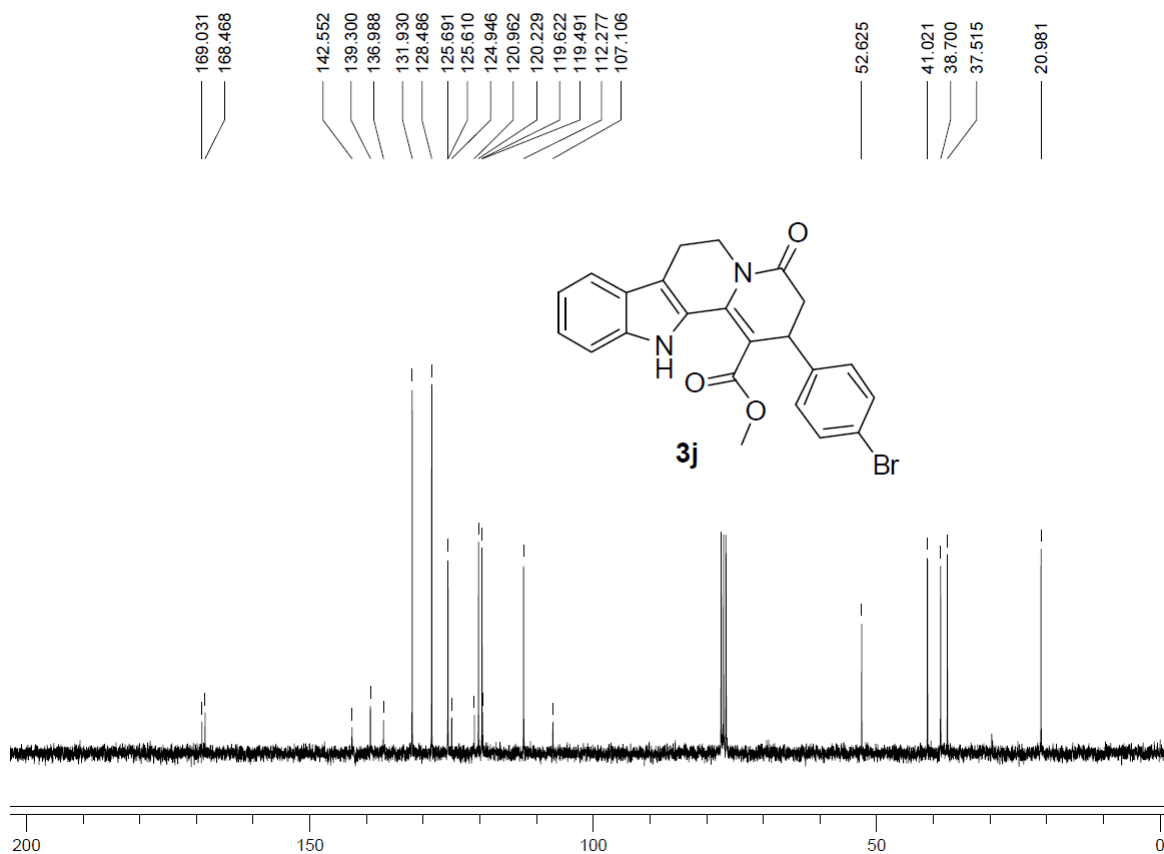
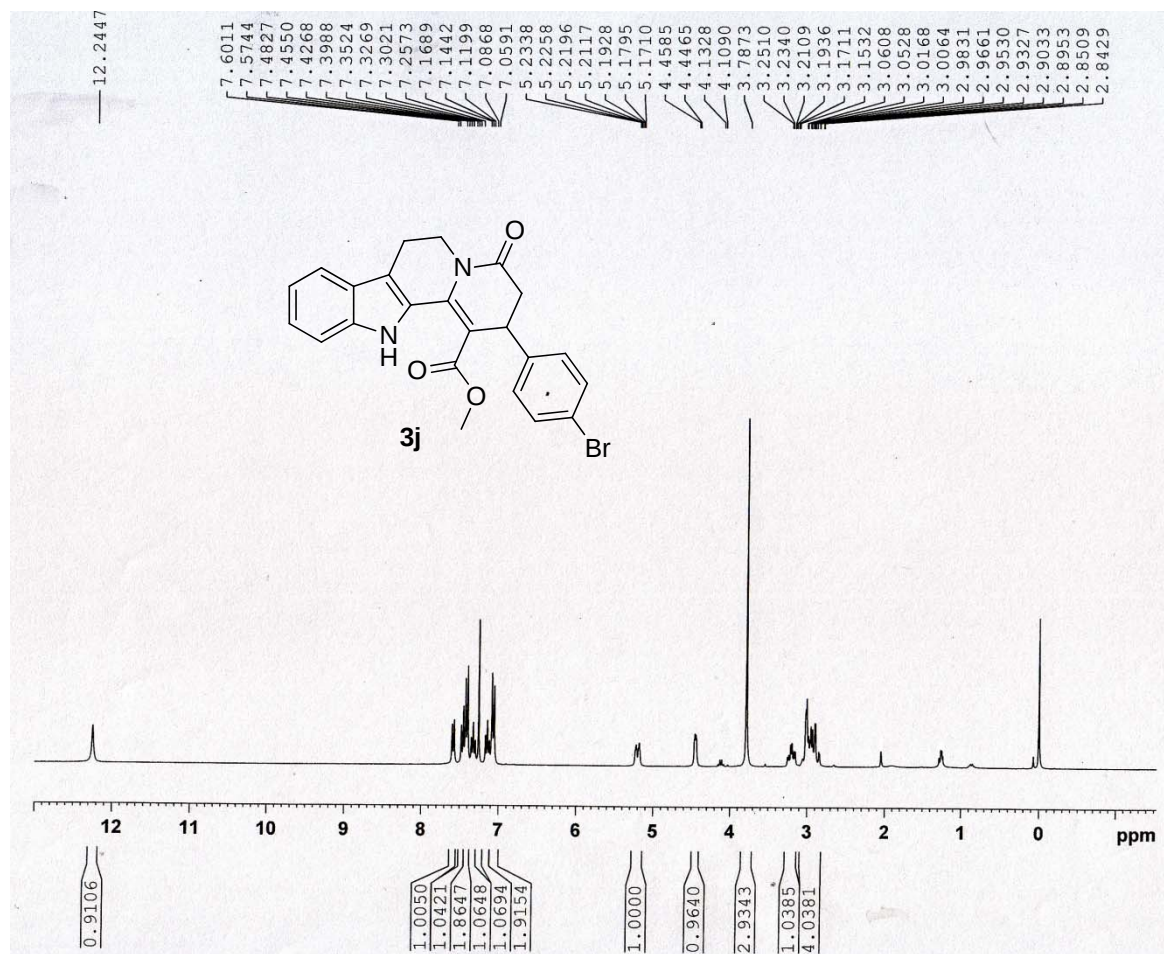


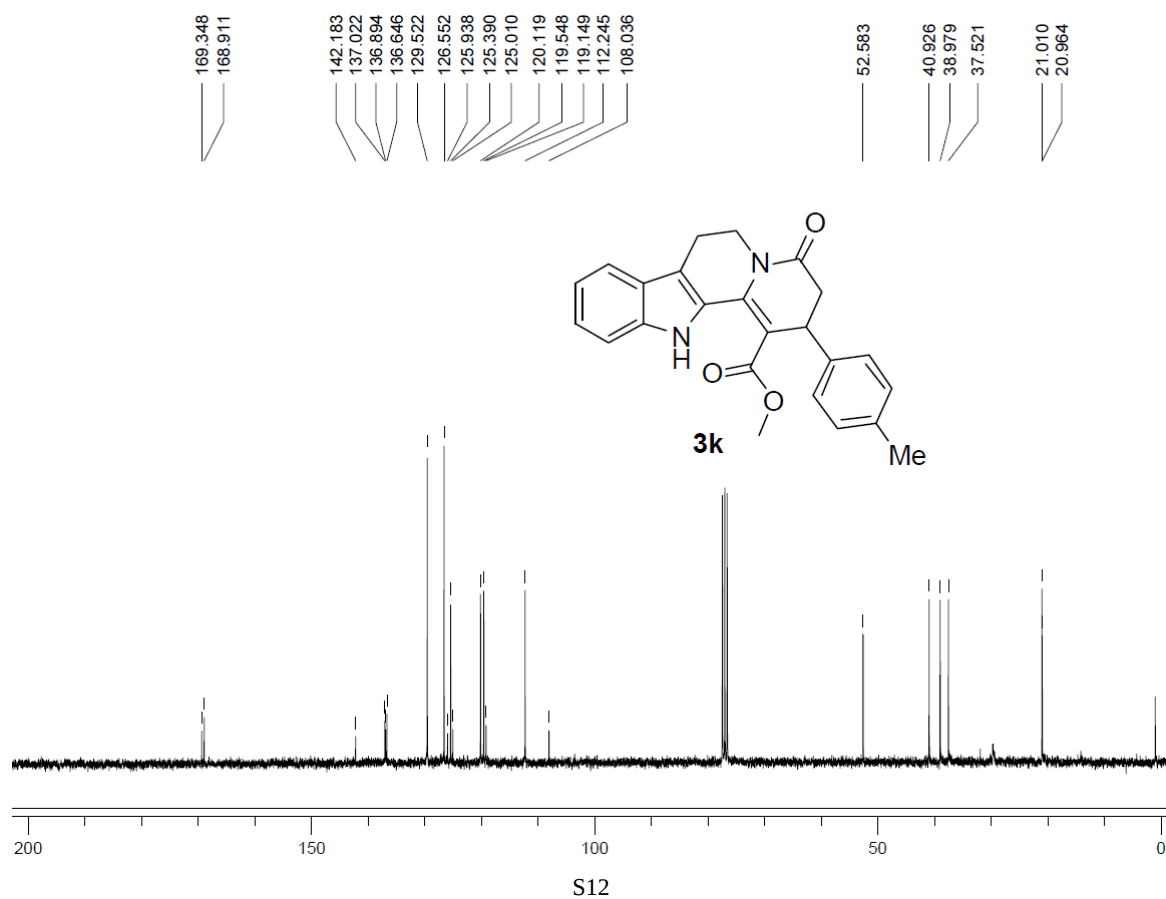
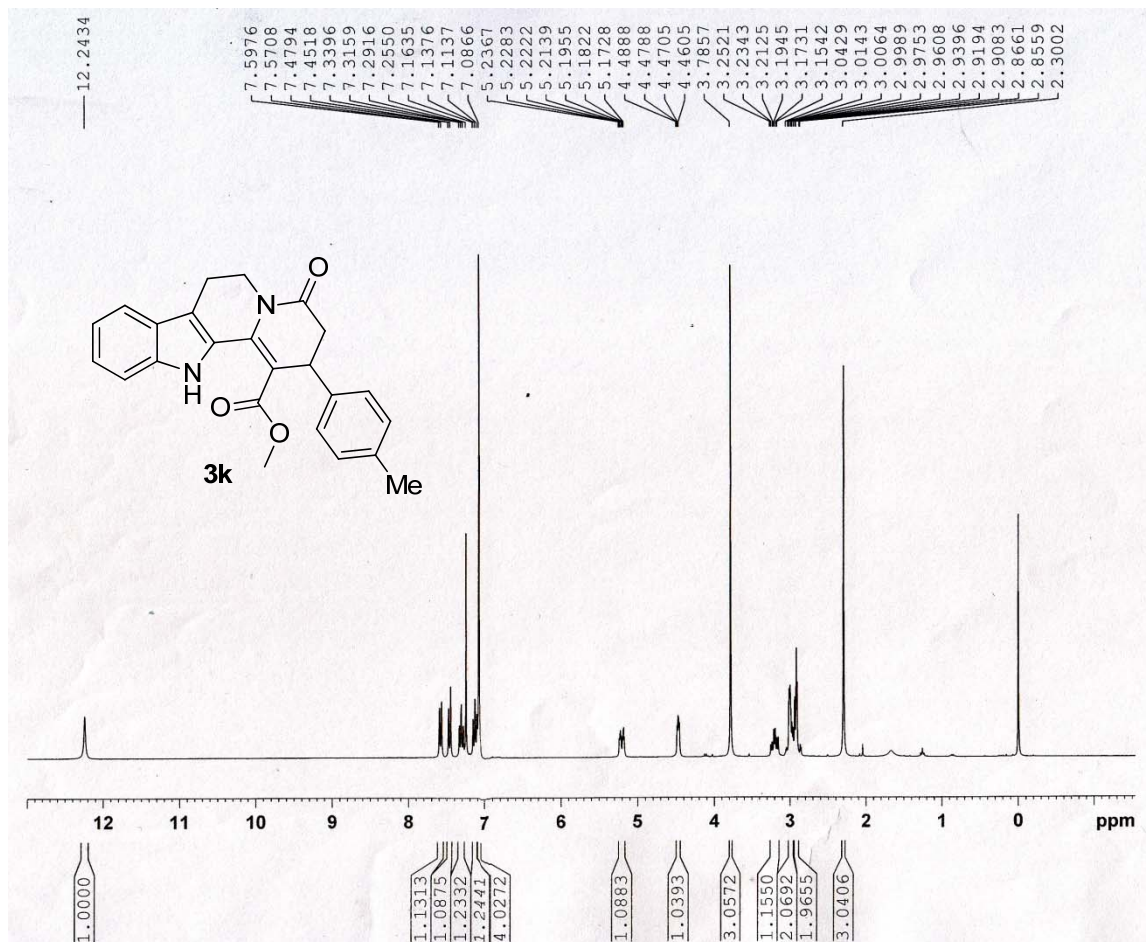


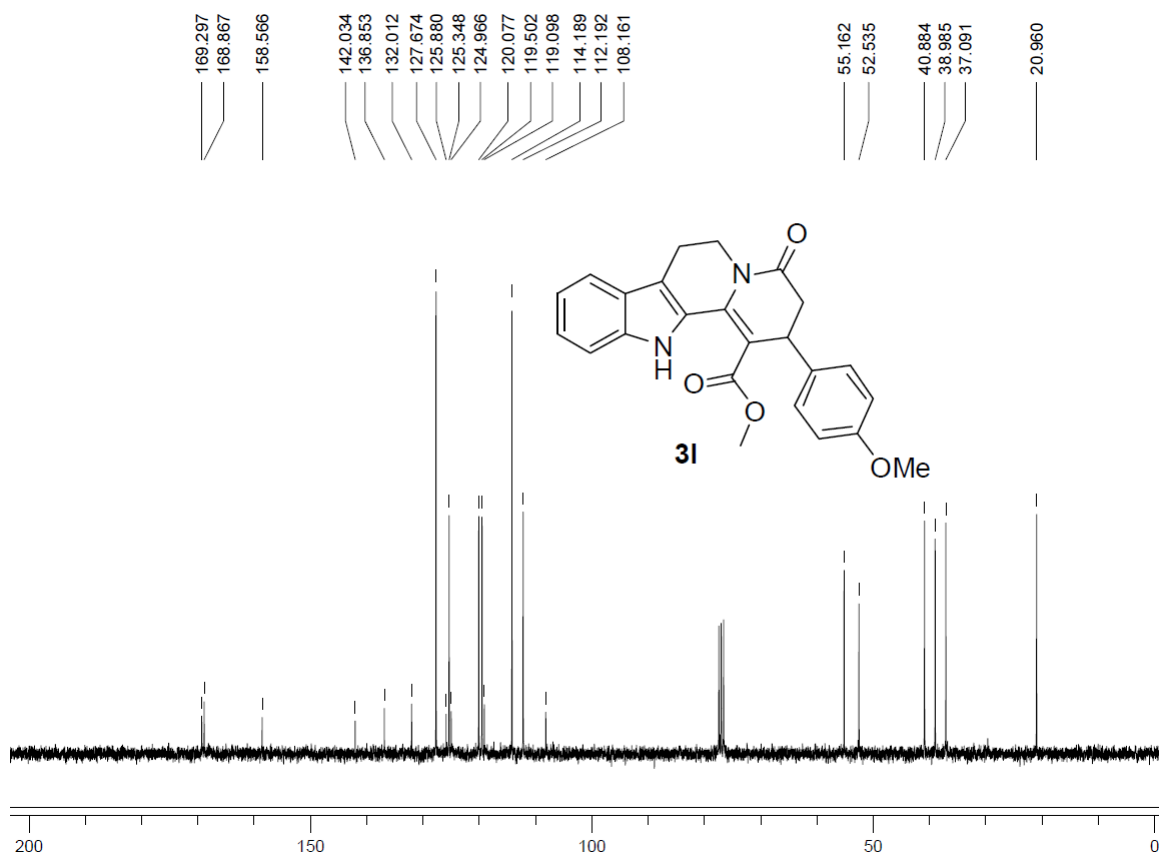
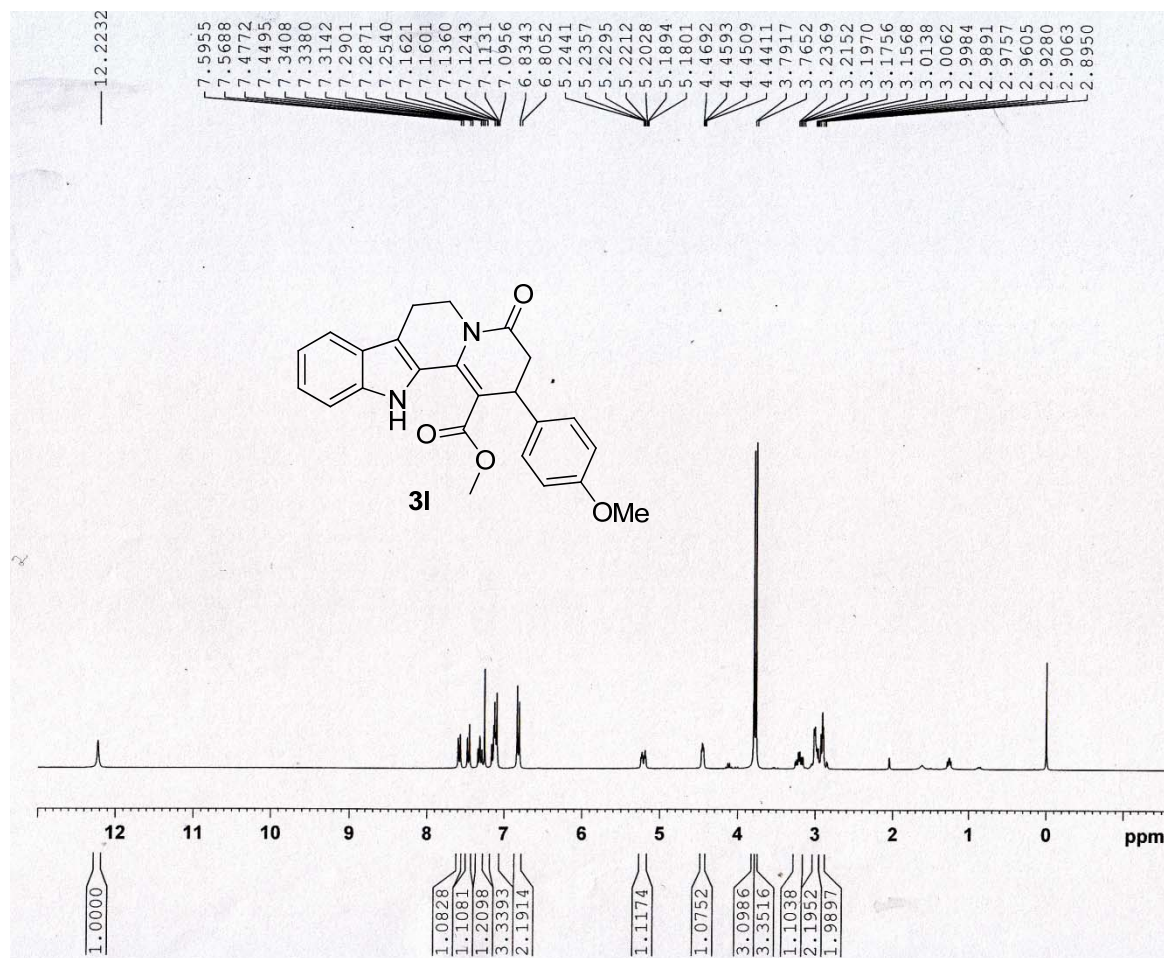


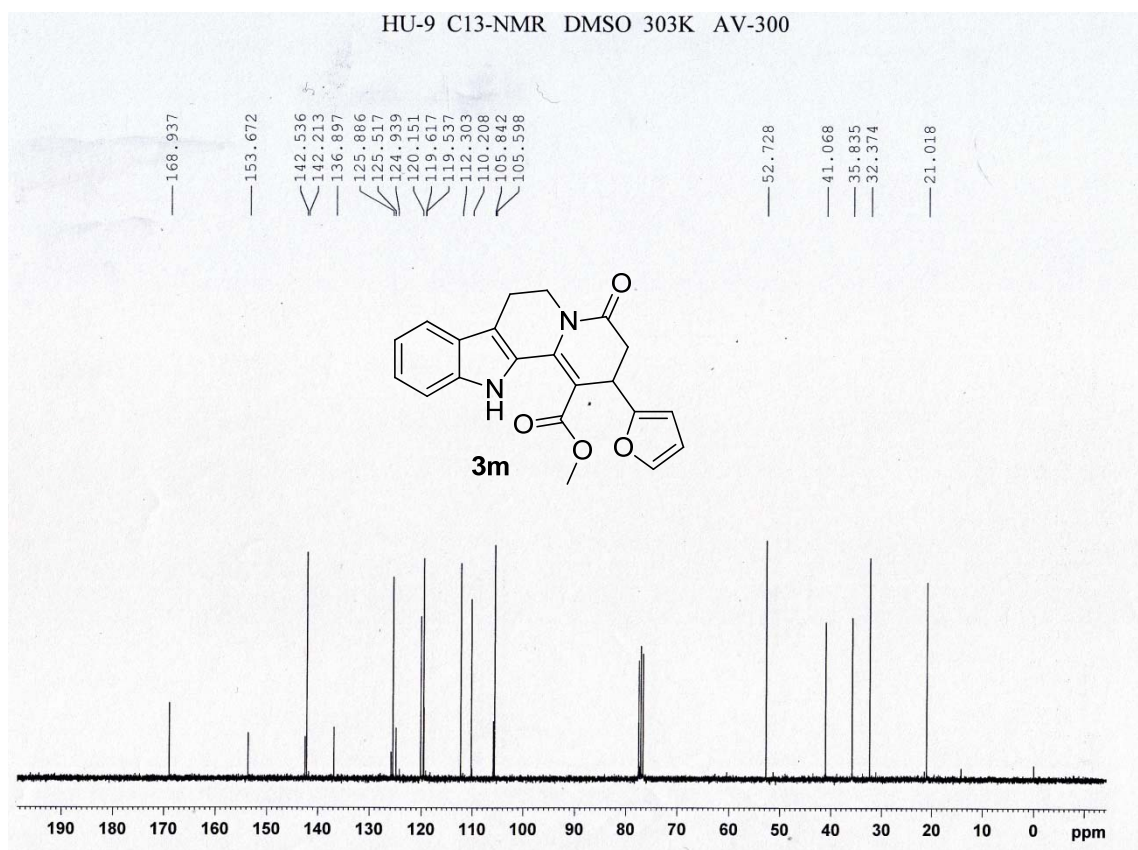
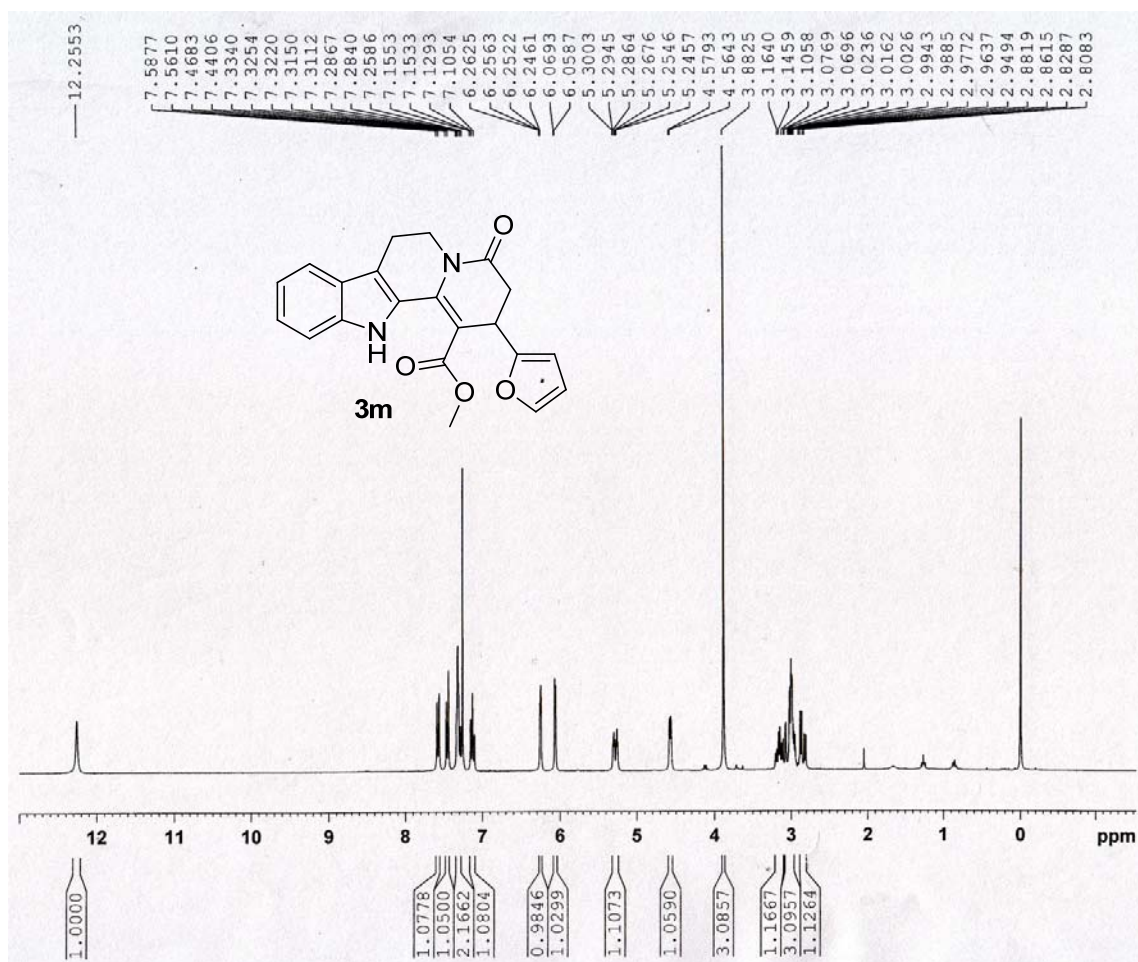


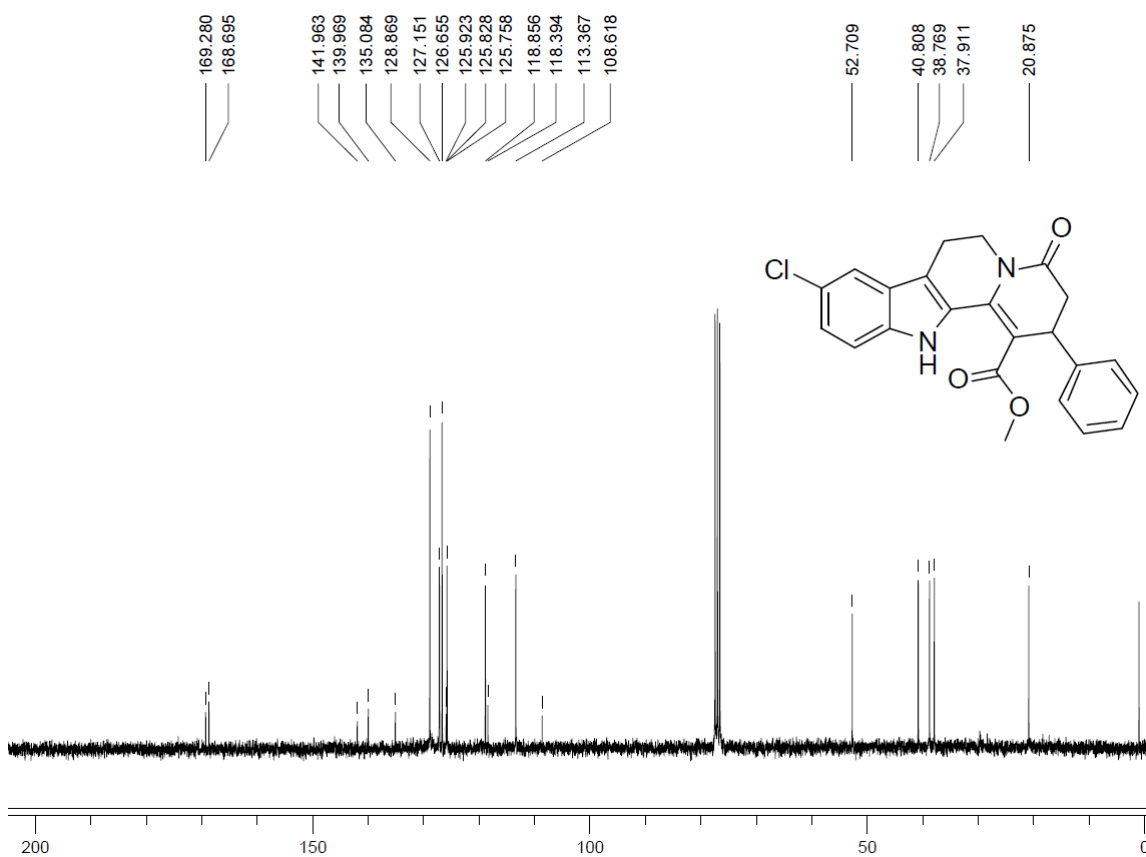
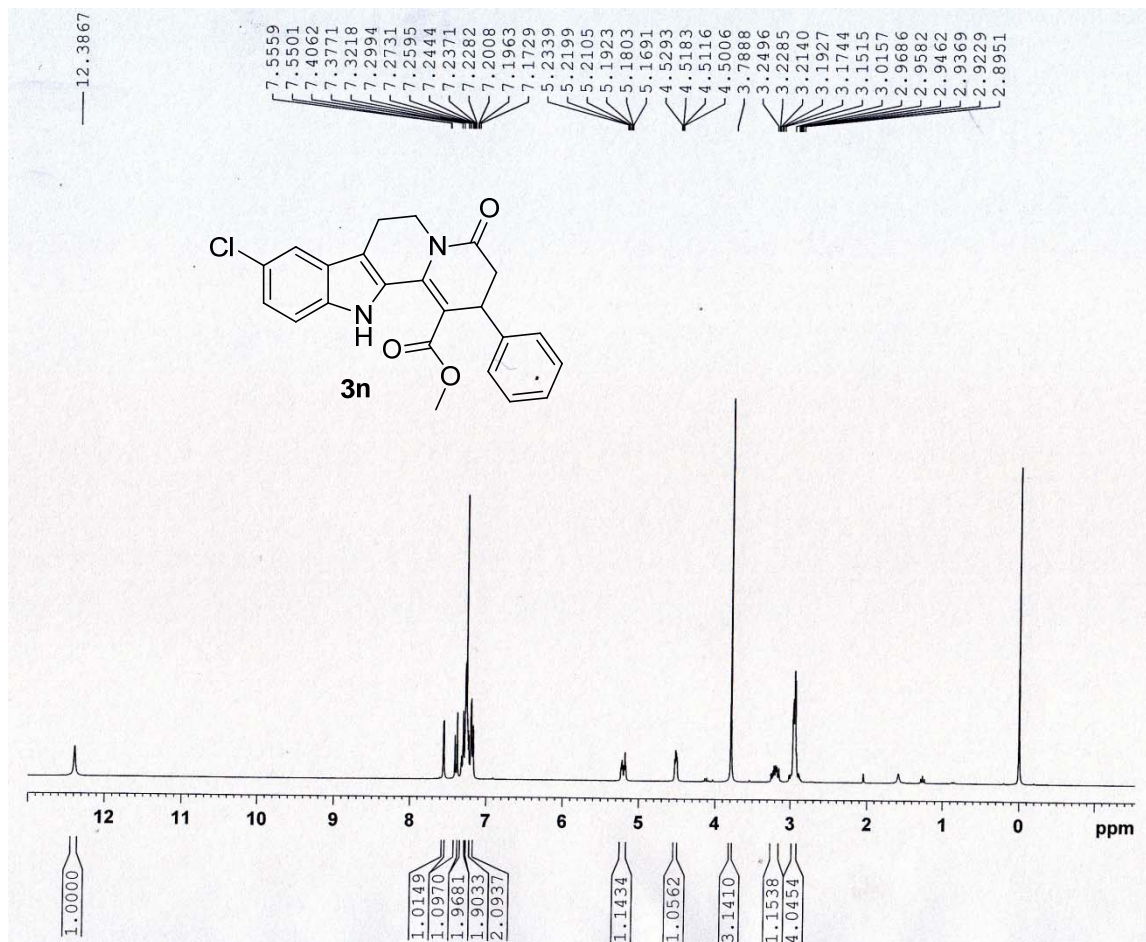


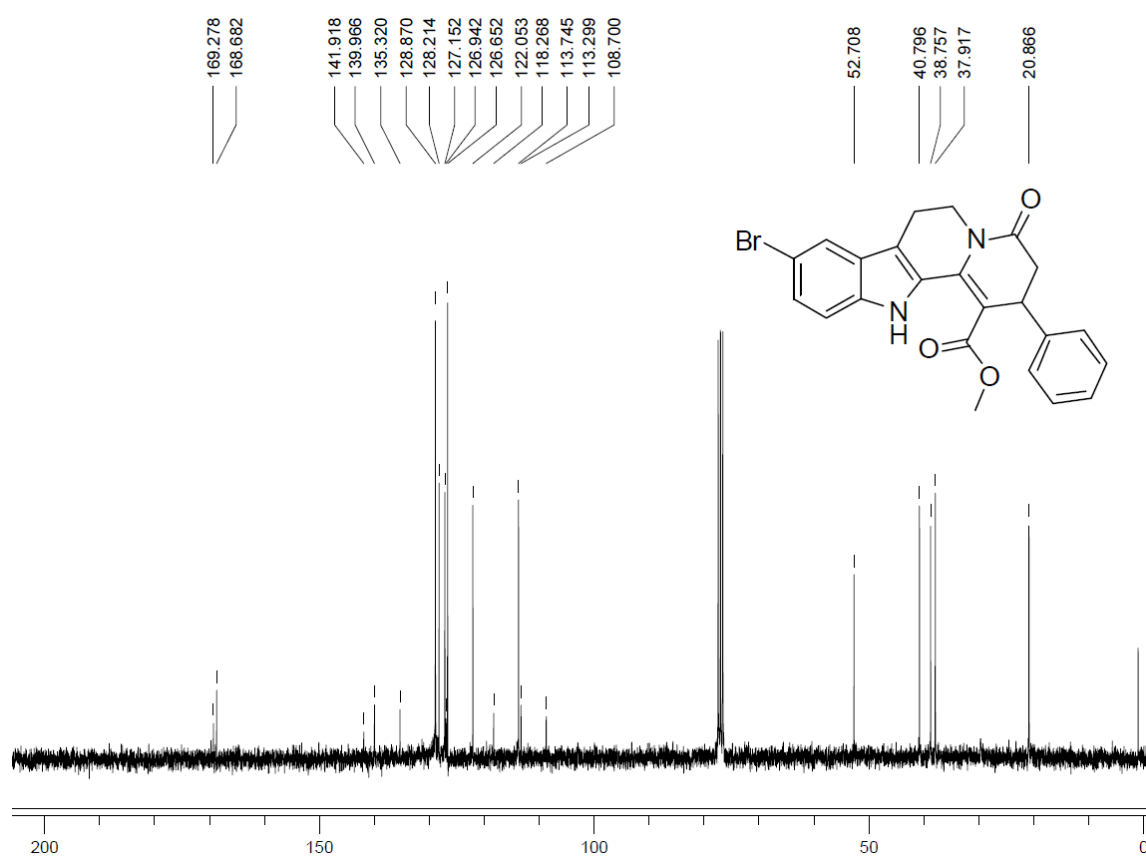
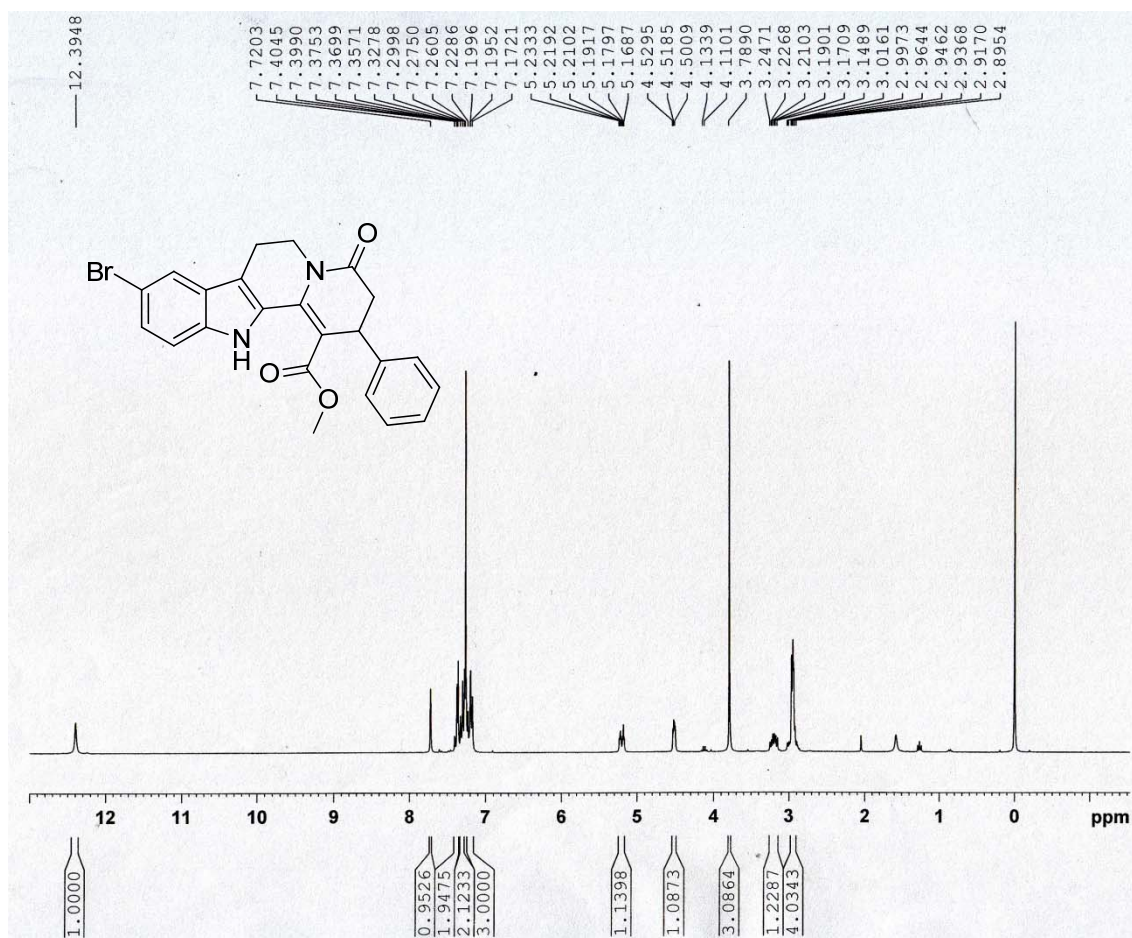


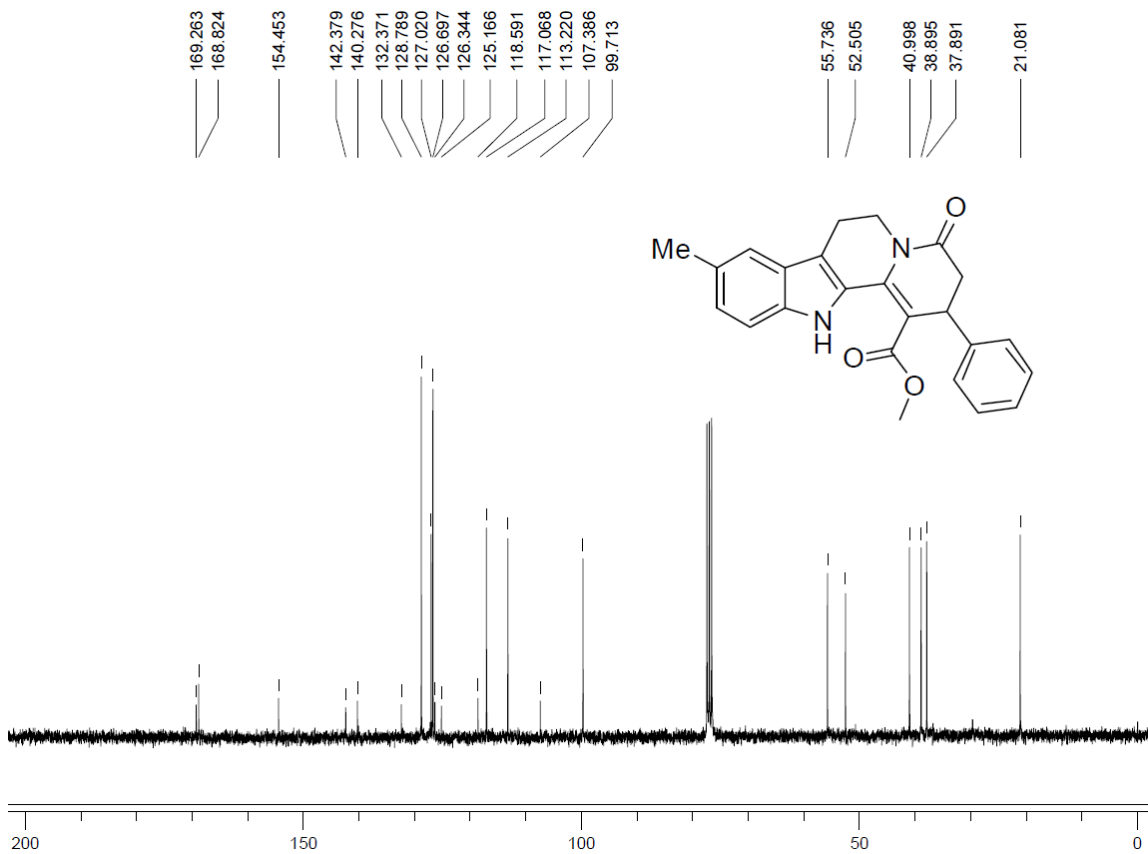
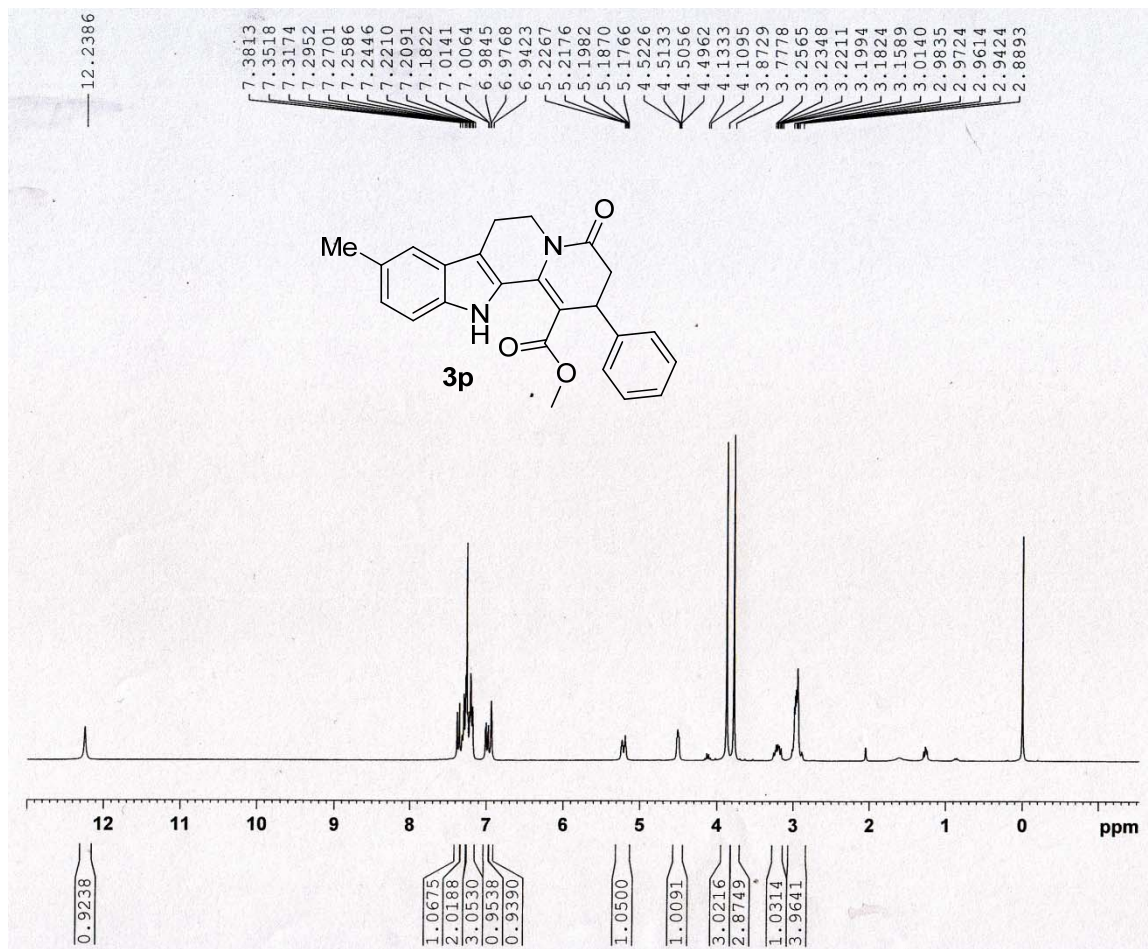


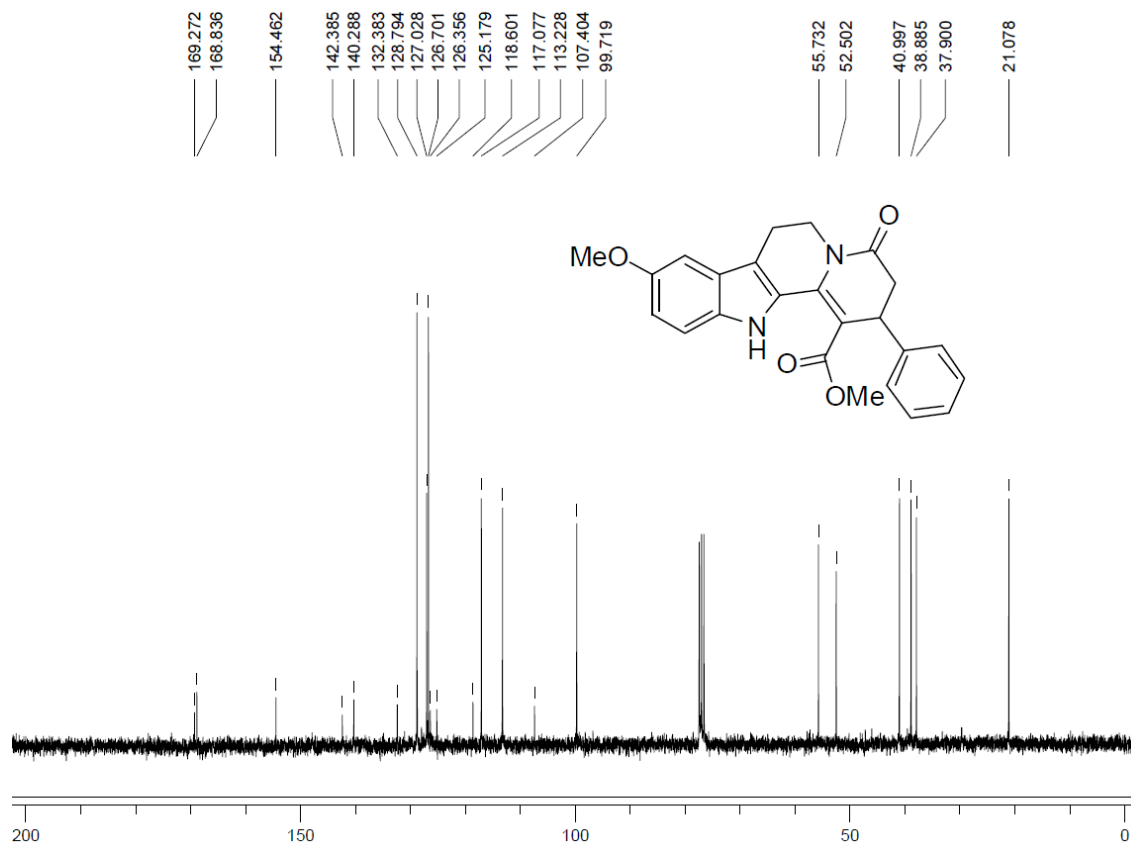
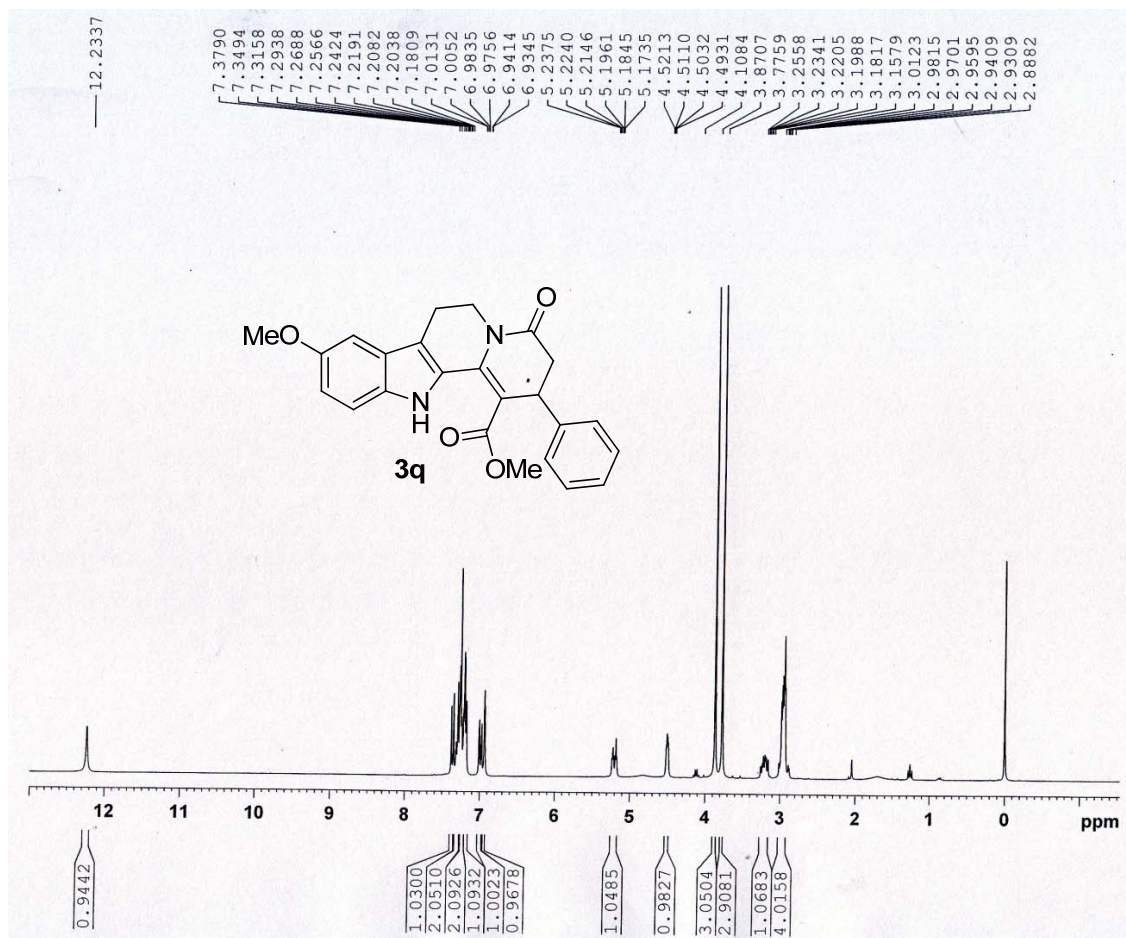


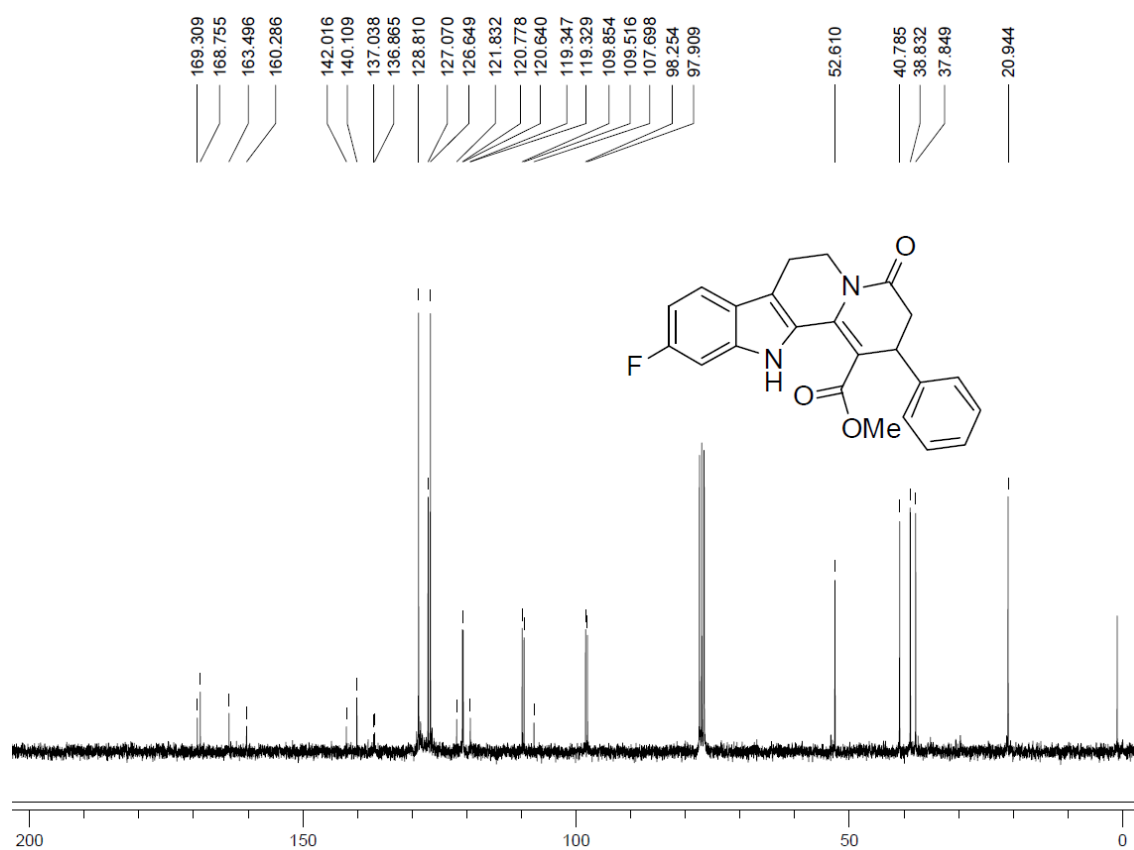
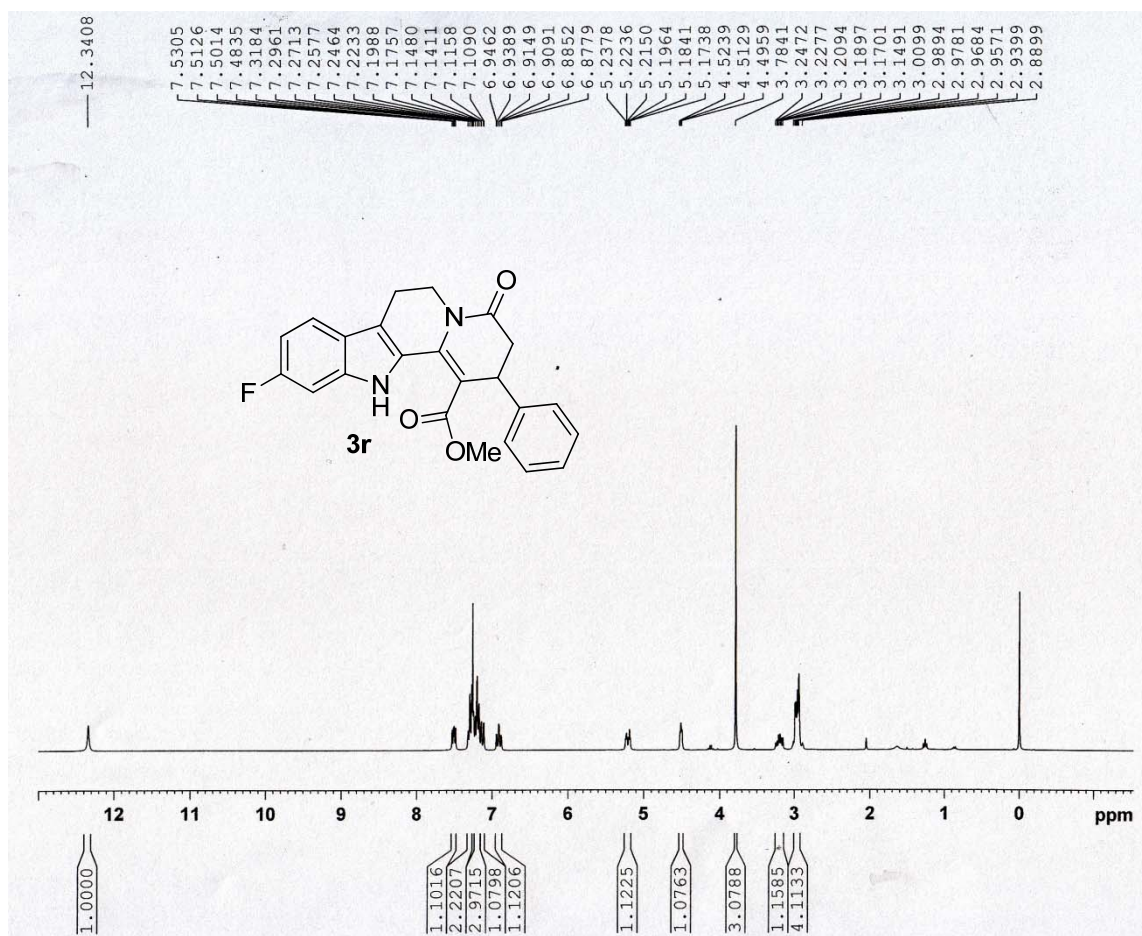


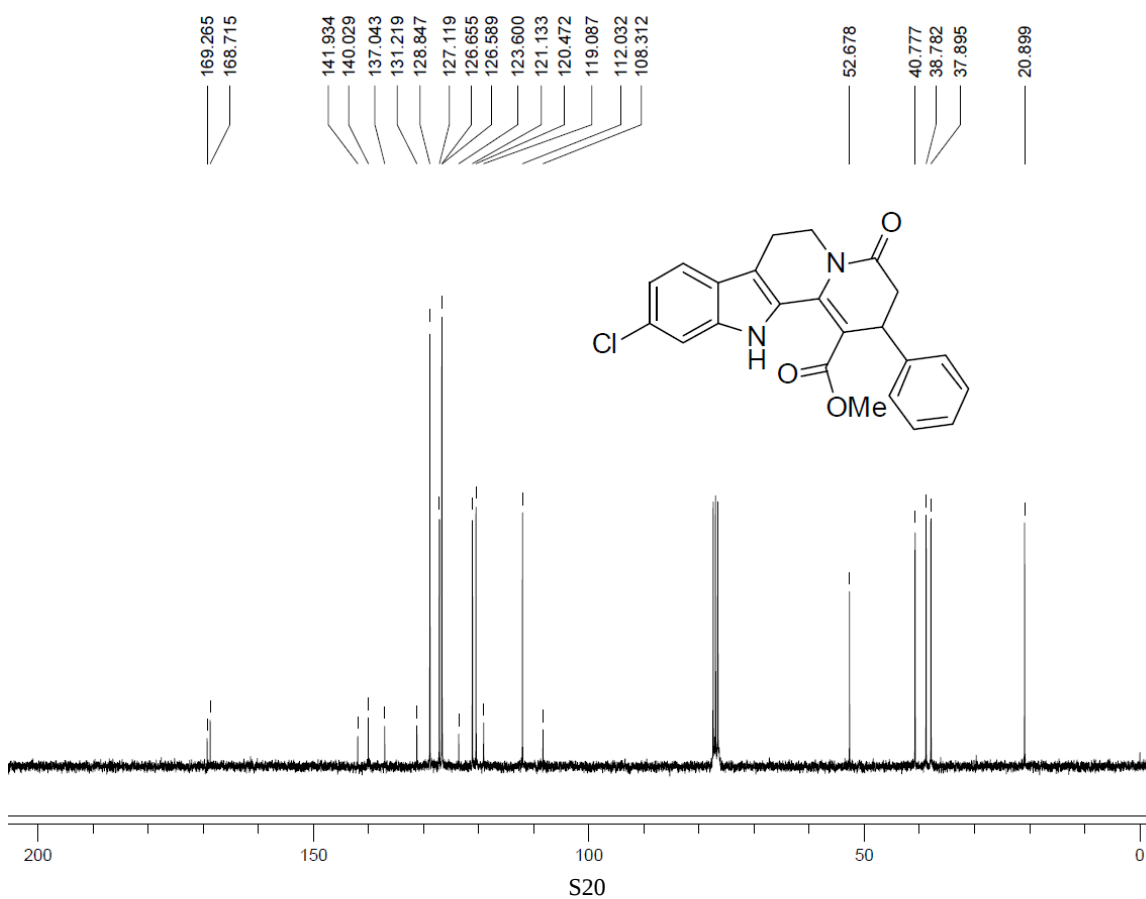
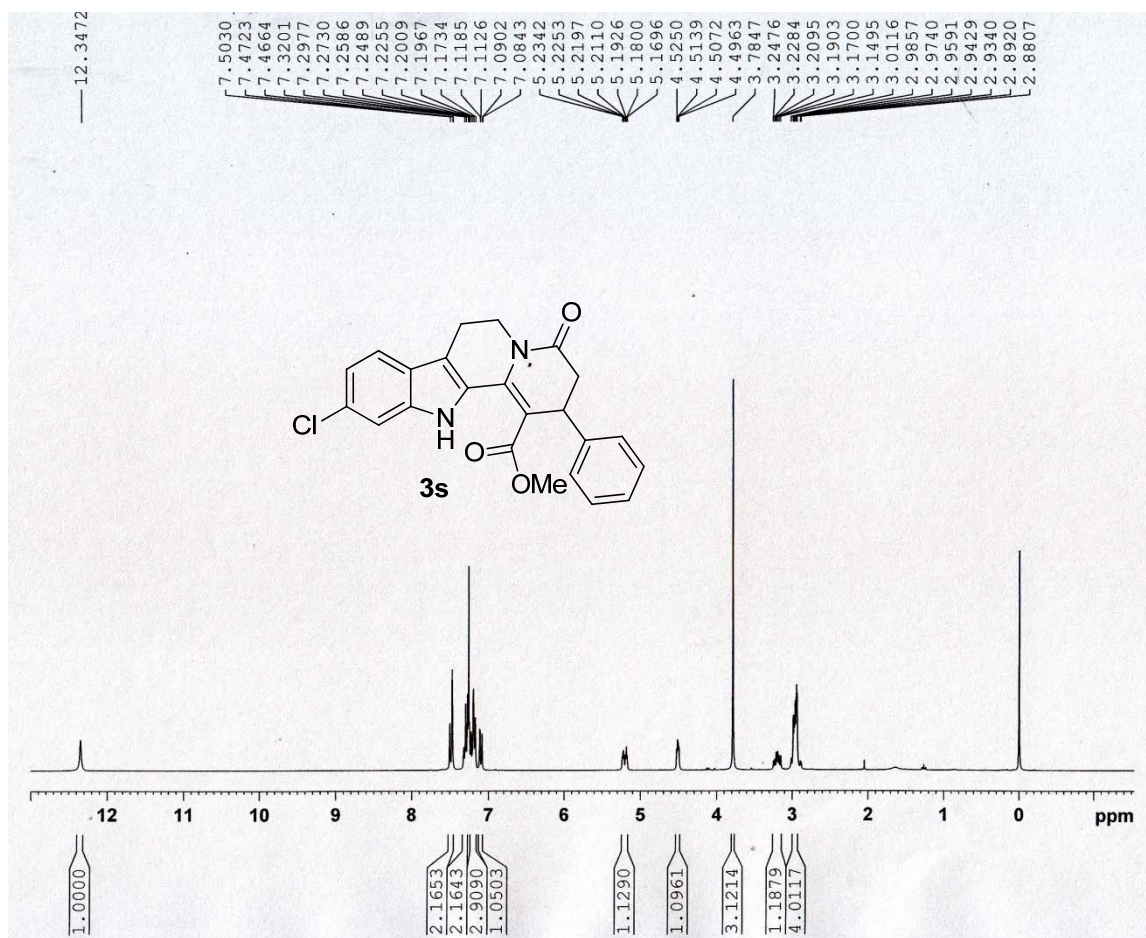




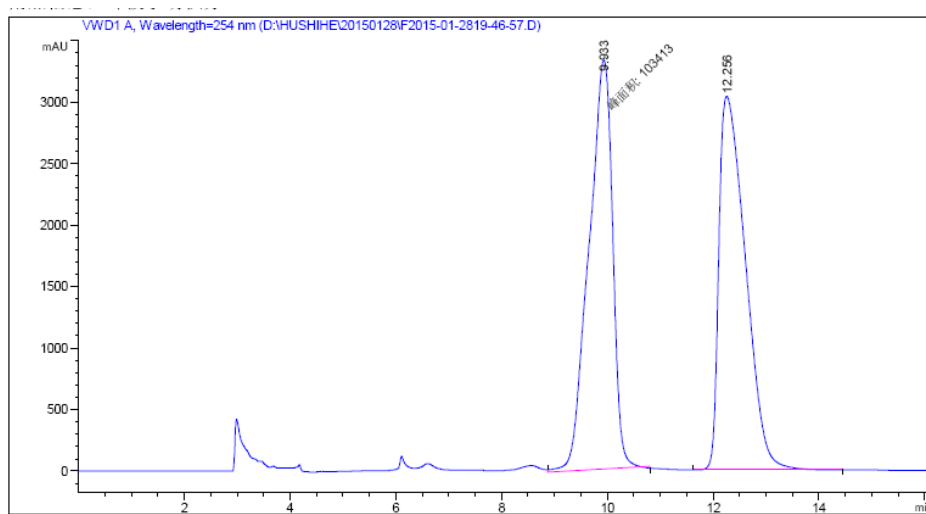




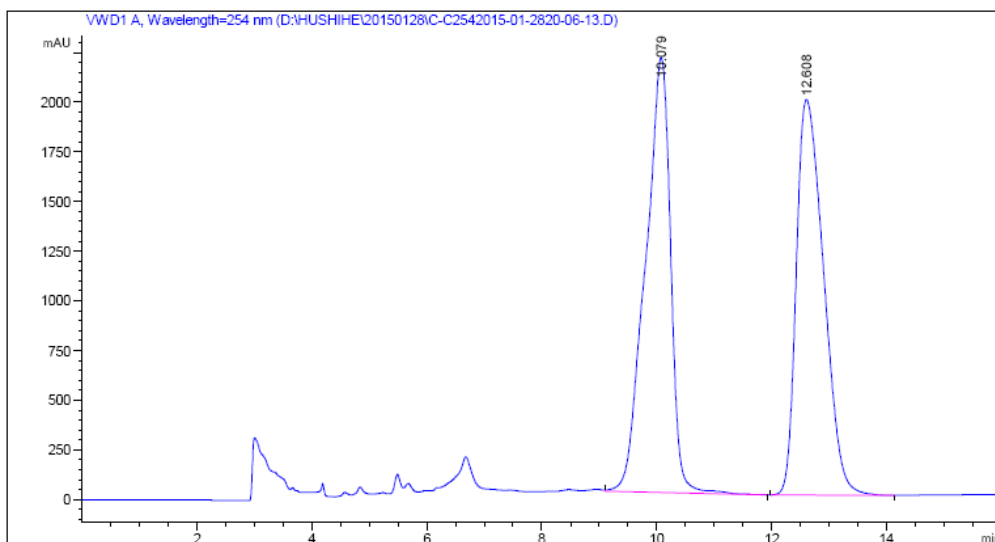
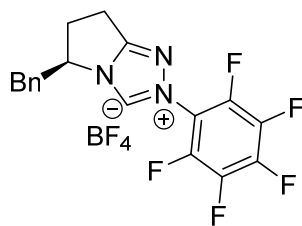




Racemic 3a:



Peak No	Time (min)	peak width (min)	peak height (mAU)	Area (mAU*s)	Area%
1	9.933	0.5186	3323.76978	1.03413e5	49.4702
2	12.256	0.5617	3037.26660	1.05628e5	50.5298



Peak No	Time (min)	peak width (min)	peak height (mAU)	Area (mAU*s)	Area%
1	10.079	0.4372	2189.80811	6.64735e4	50.3181
2	12.608	0.5288	1990.13574	6.56330e4	49.6819