

Supplementary Material

Phosphine-Catalyzed Domino Reaction: An Efficient Method for the Synthesis of Highly Functionalized Spirooxazolines

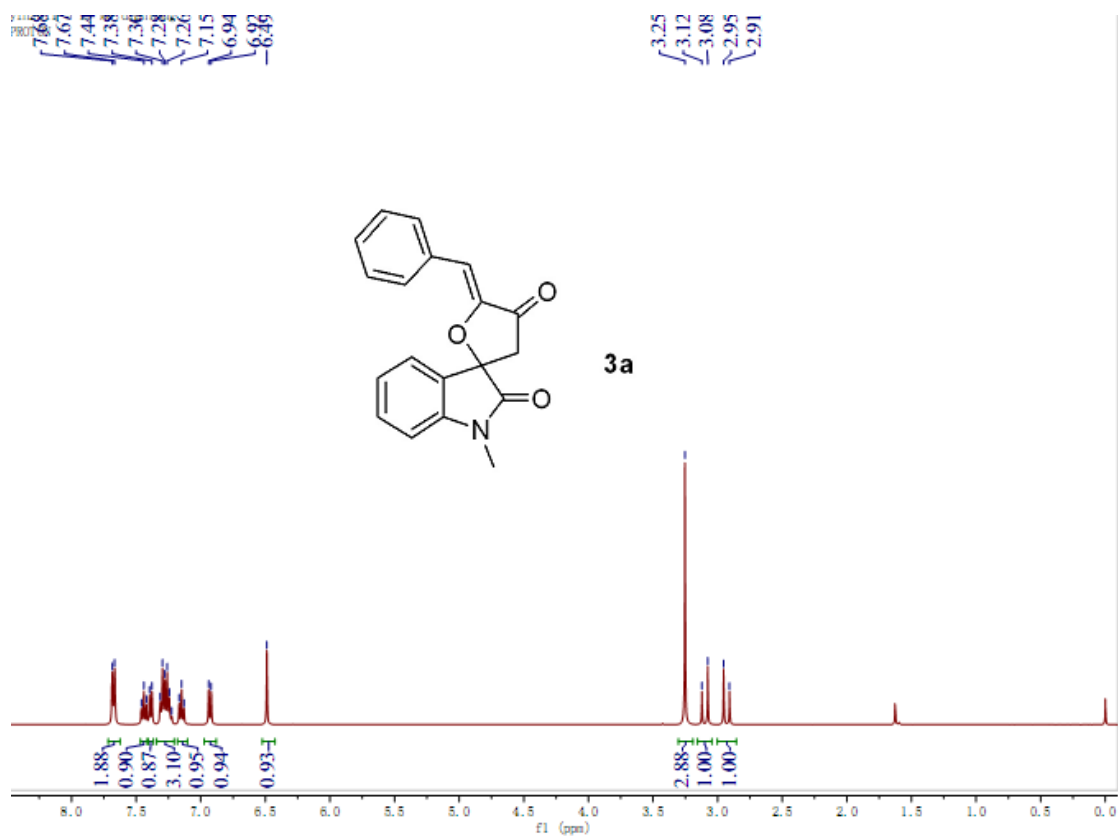
Lihua Yang, Peizhong Xie, Erqing Li, Xin Li, You Huang* and Ruyun Chen

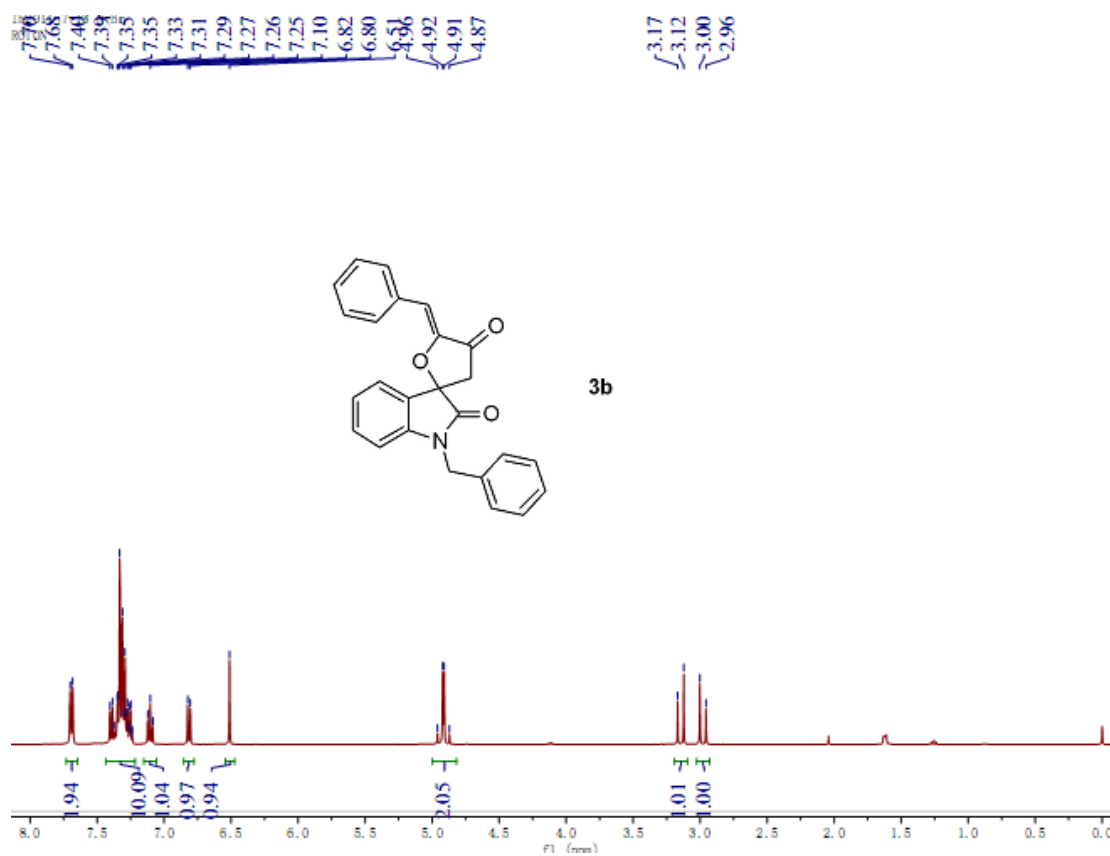
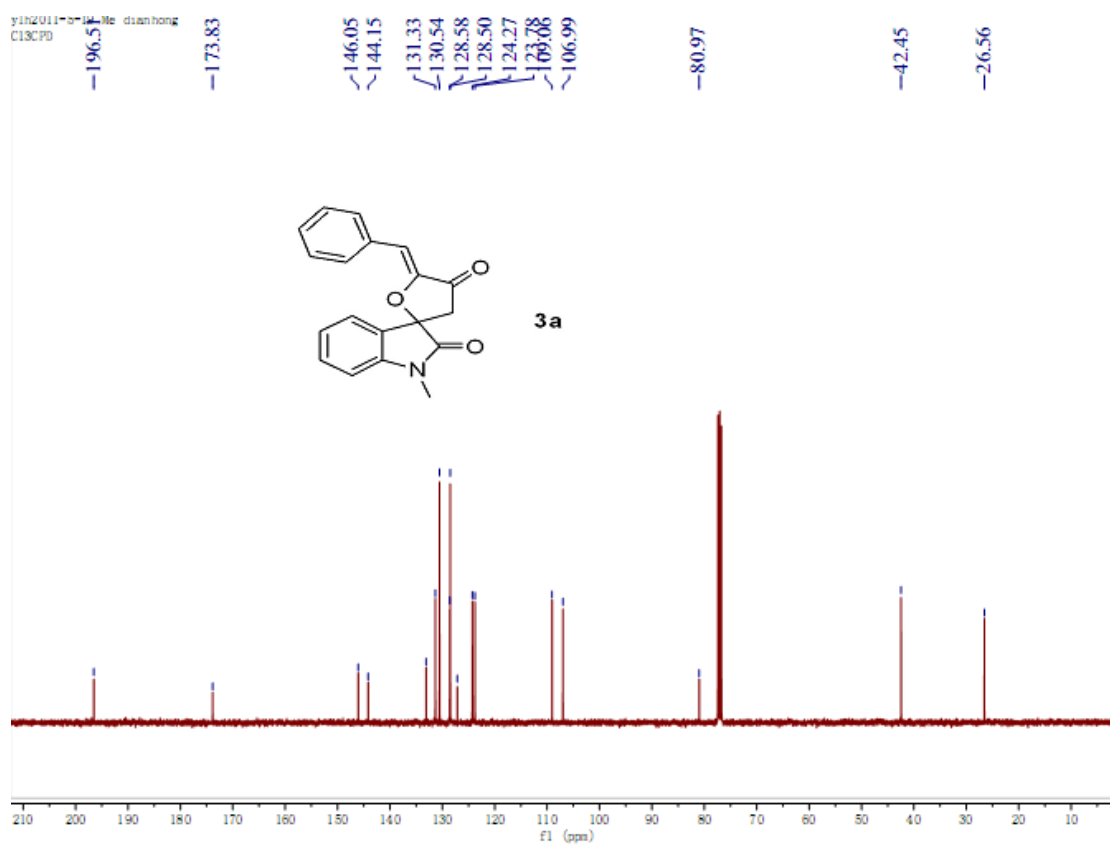
State Key Laboratory and Institute of Elemento-organic Chemistry, Nankai University,
Tianjin 300071, China

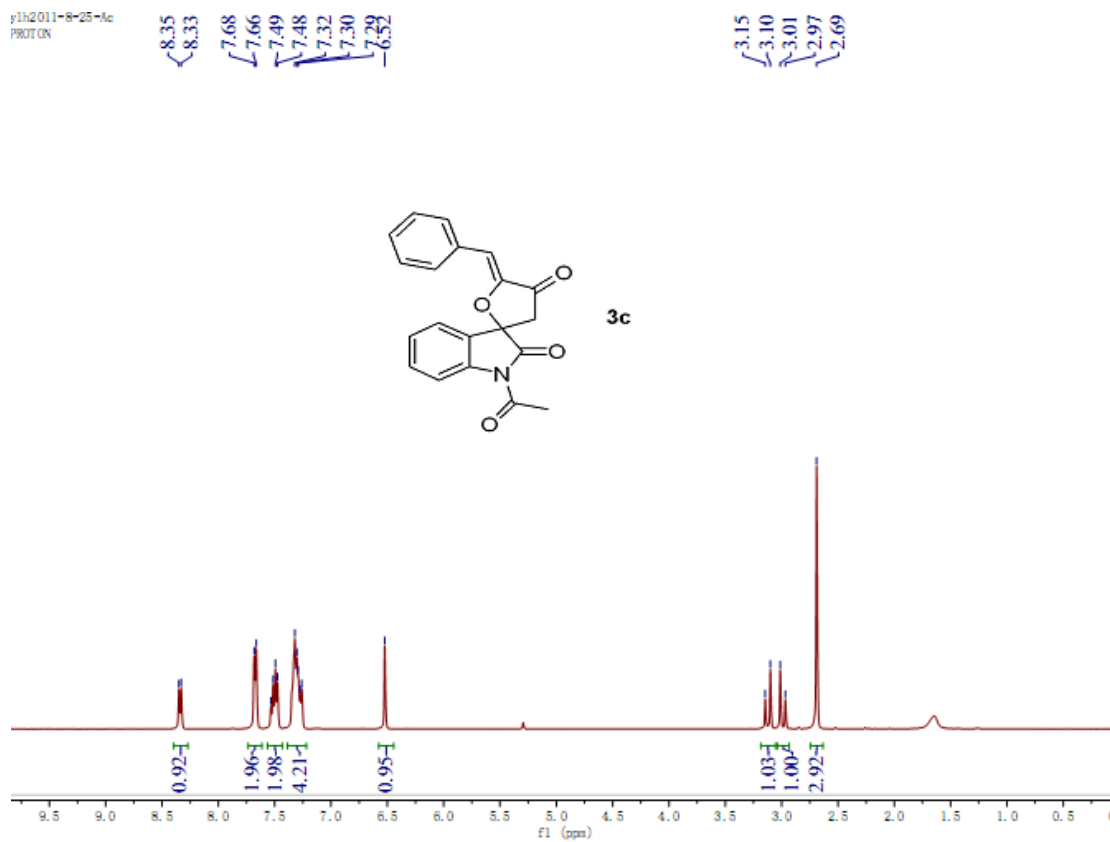
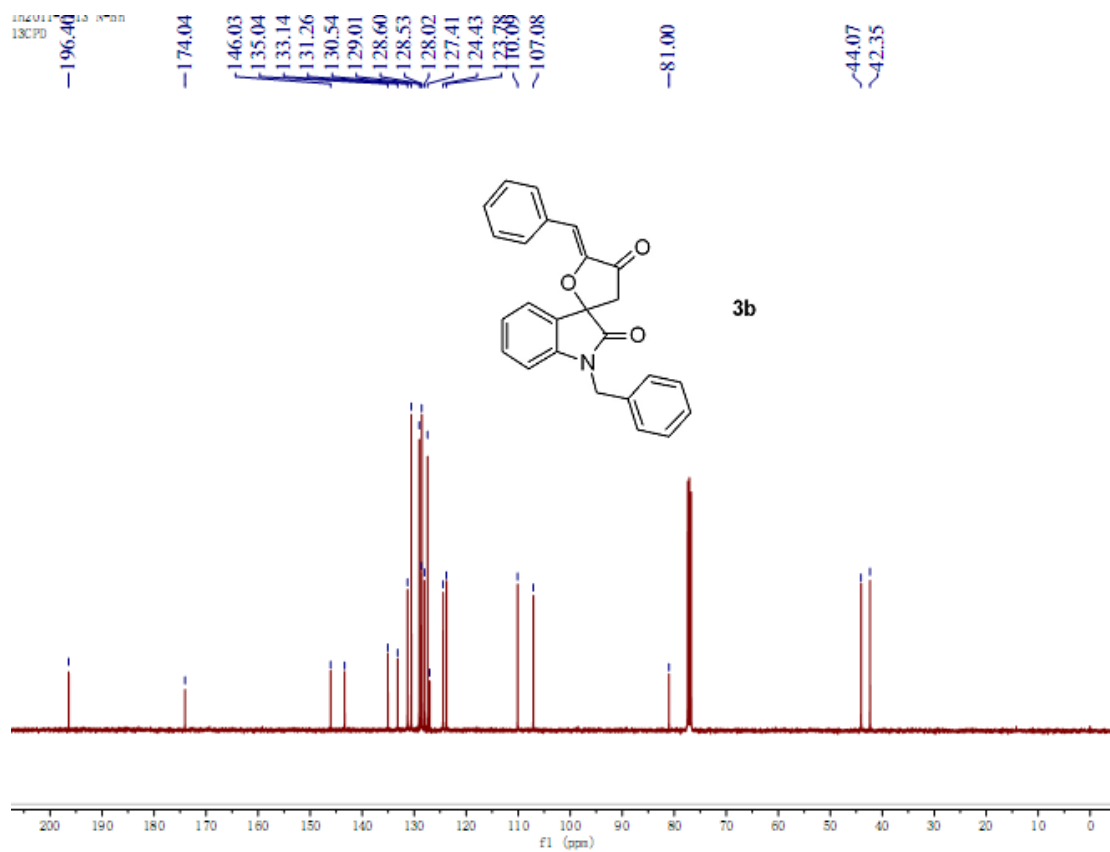
Fax: (+86)22-23503627; E-mail: hyou@nankai.edu.cn

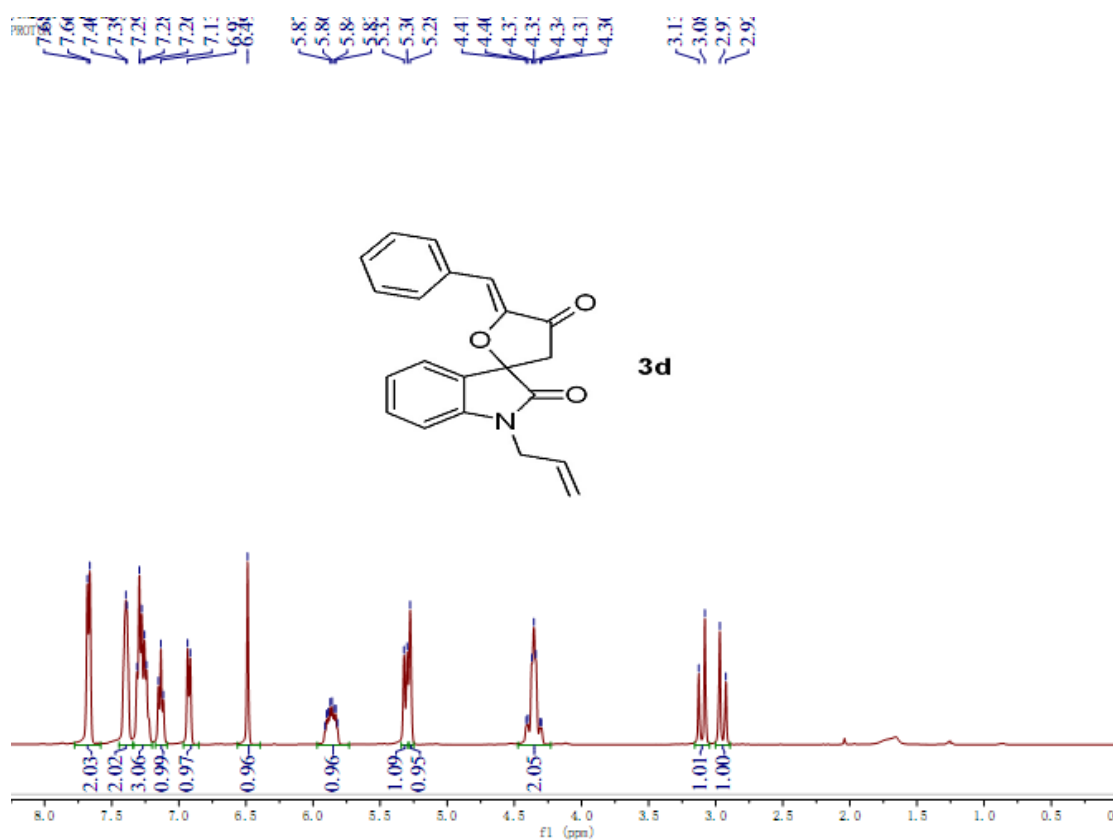
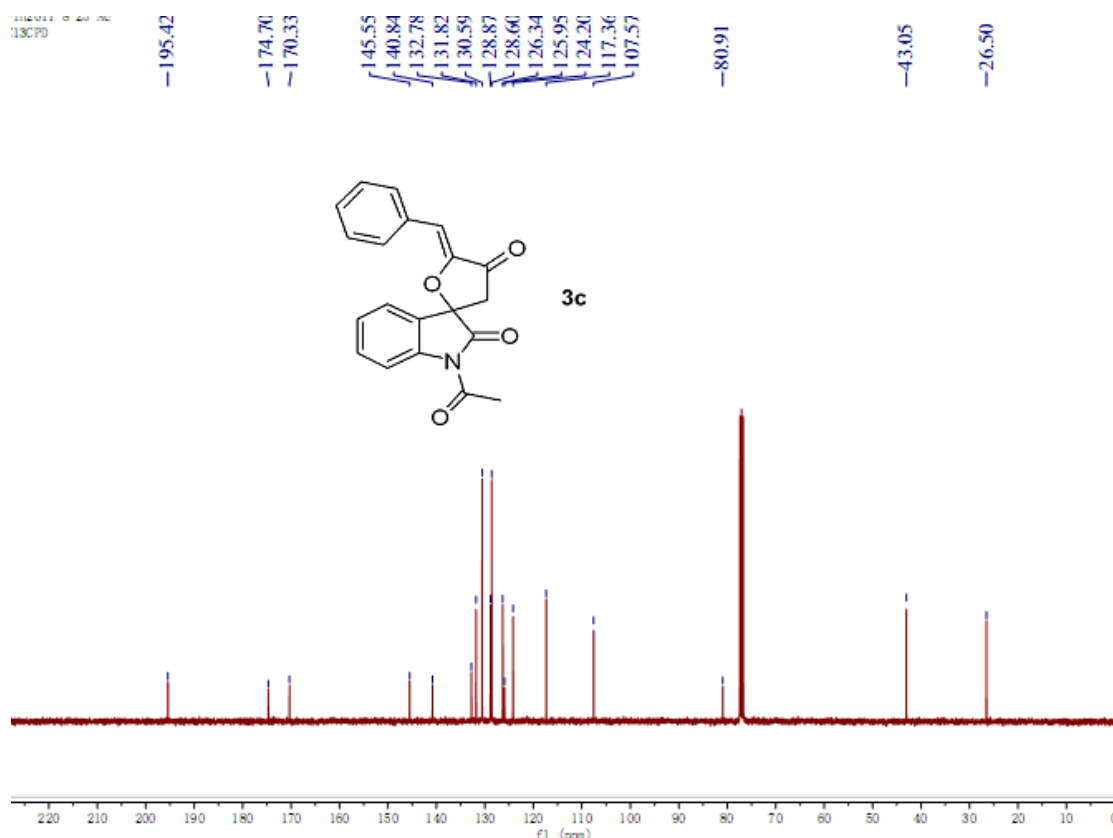
| | |
|---|-----|
| 1. NMR spectra for all new compounds..... | S1 |
| 2. Chiral HPLC analyses (3a)..... | S20 |

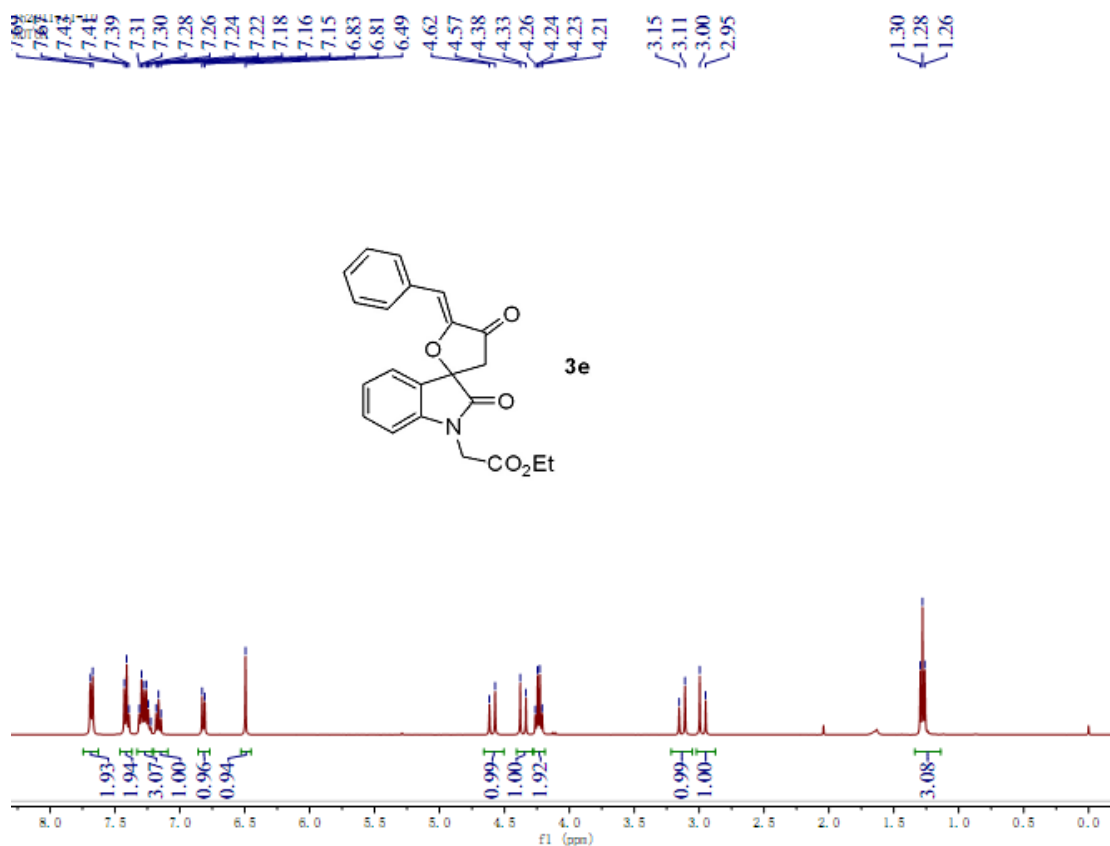
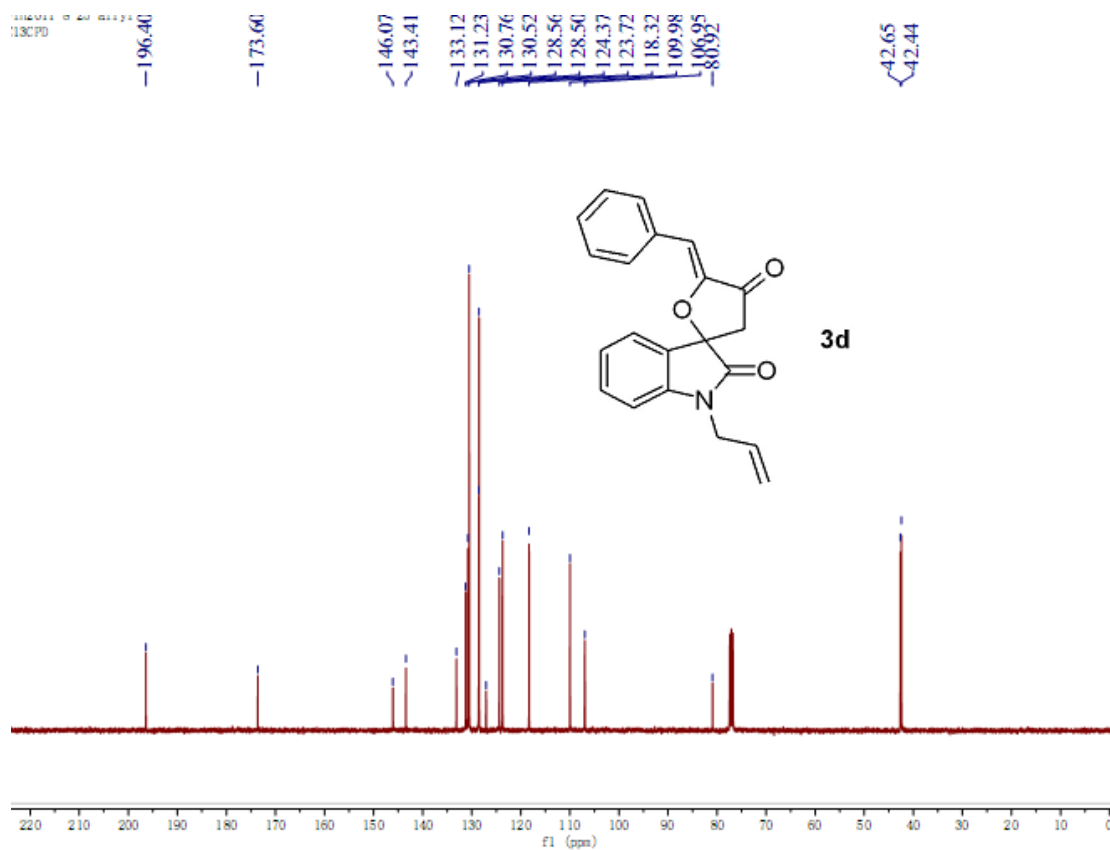
1. NMR spectra for all new compounds.

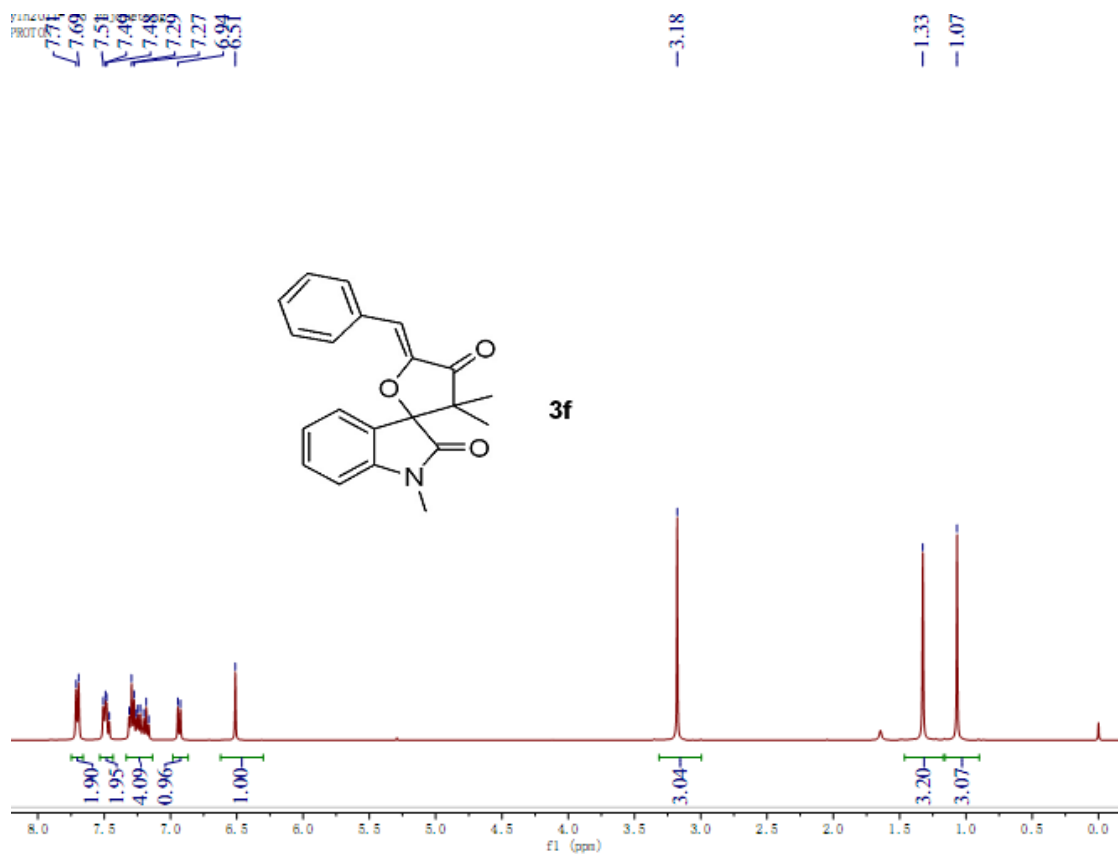
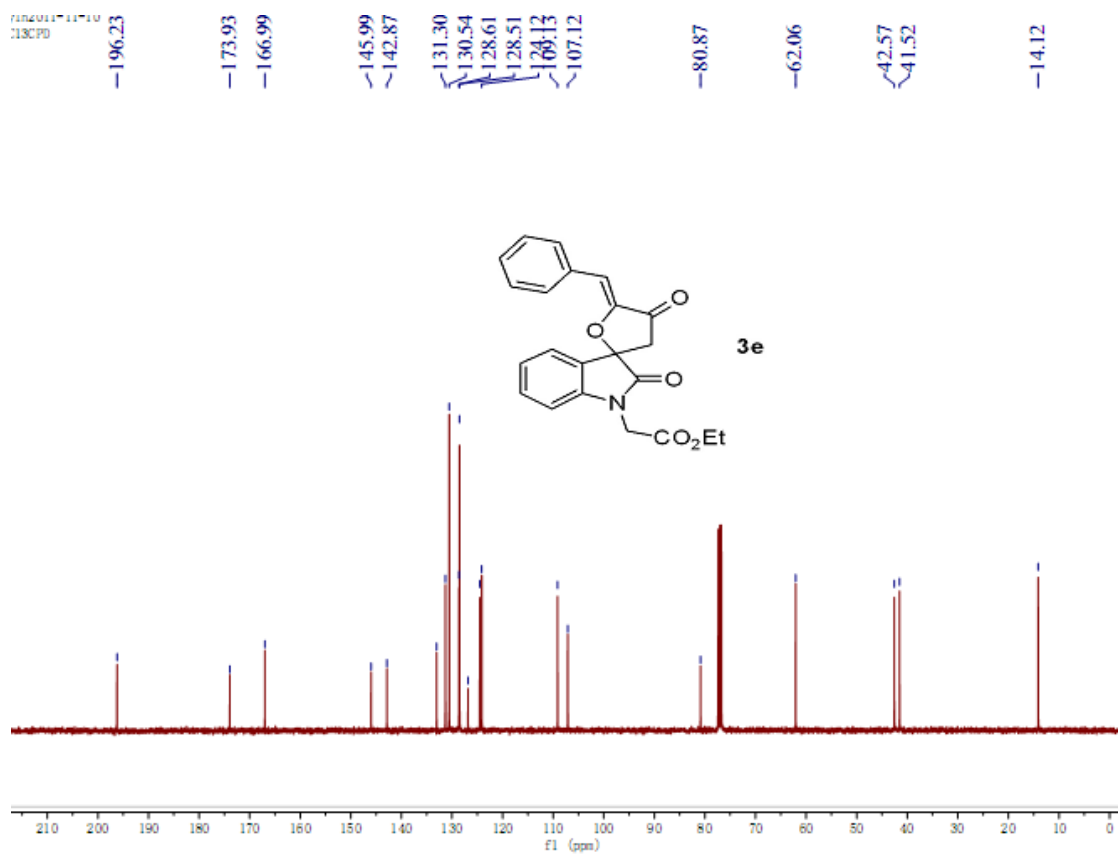


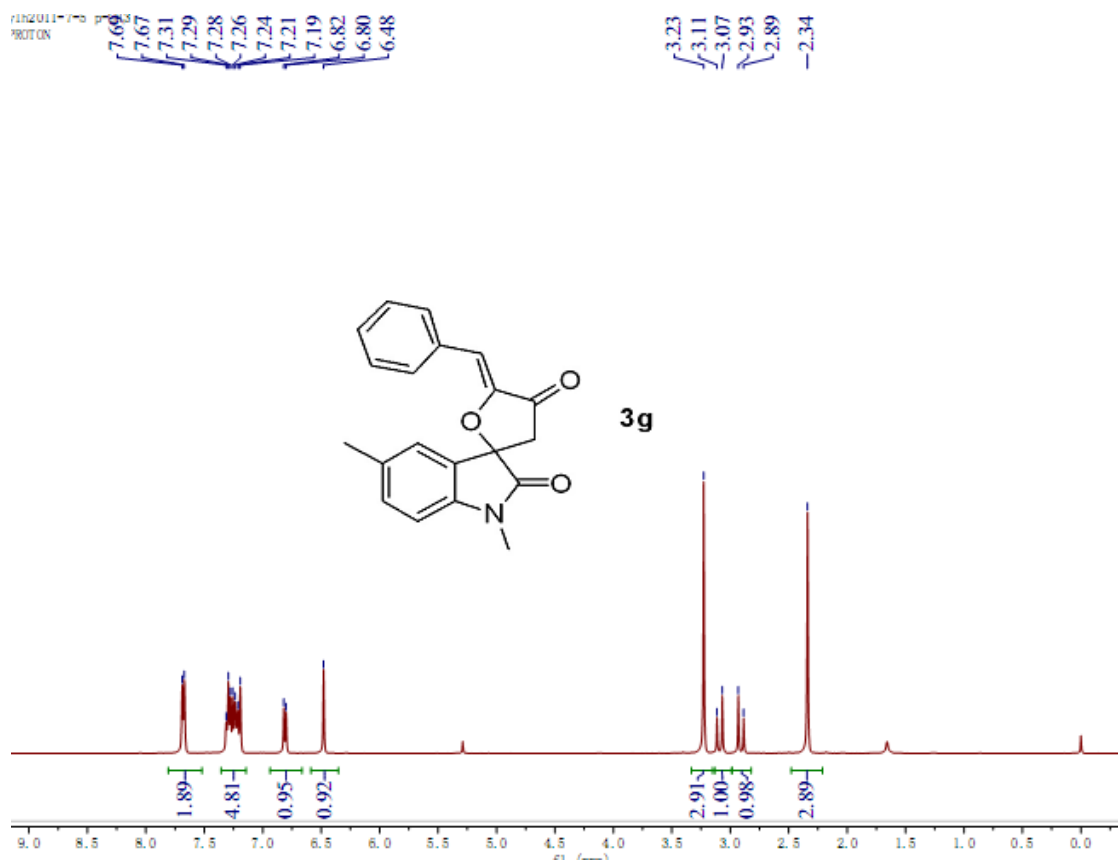
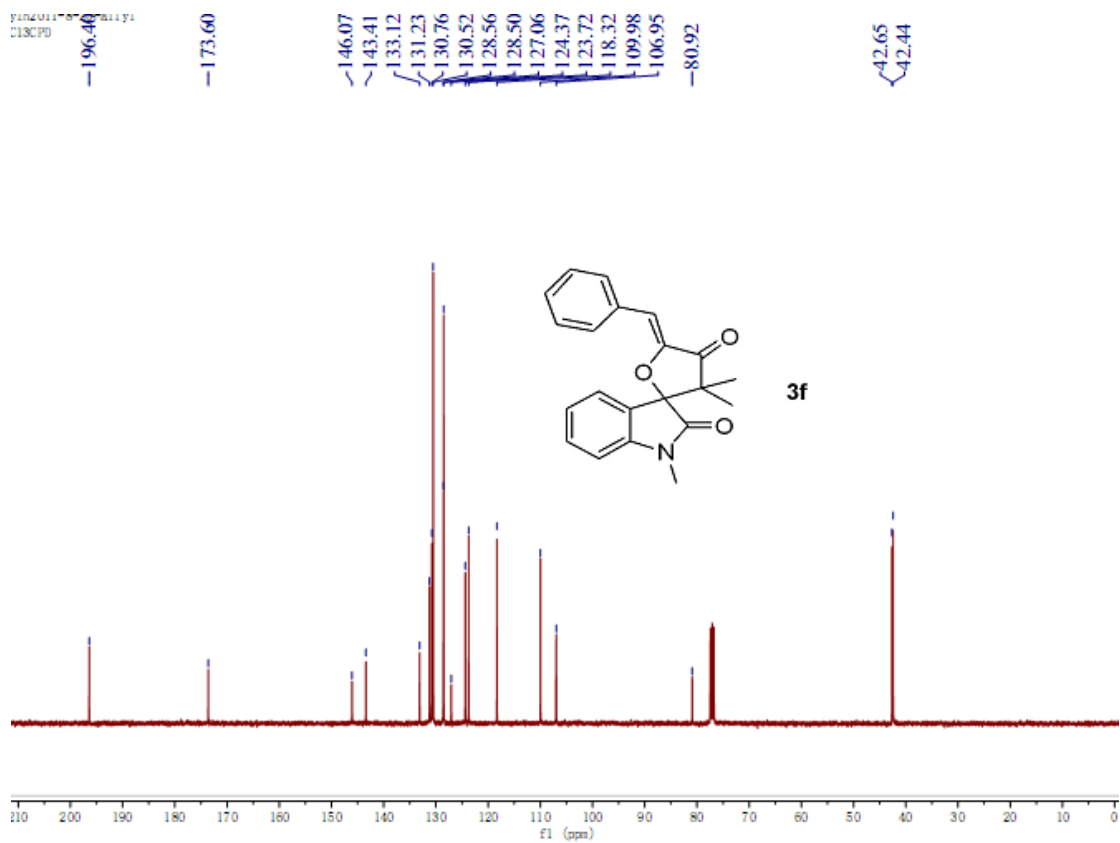


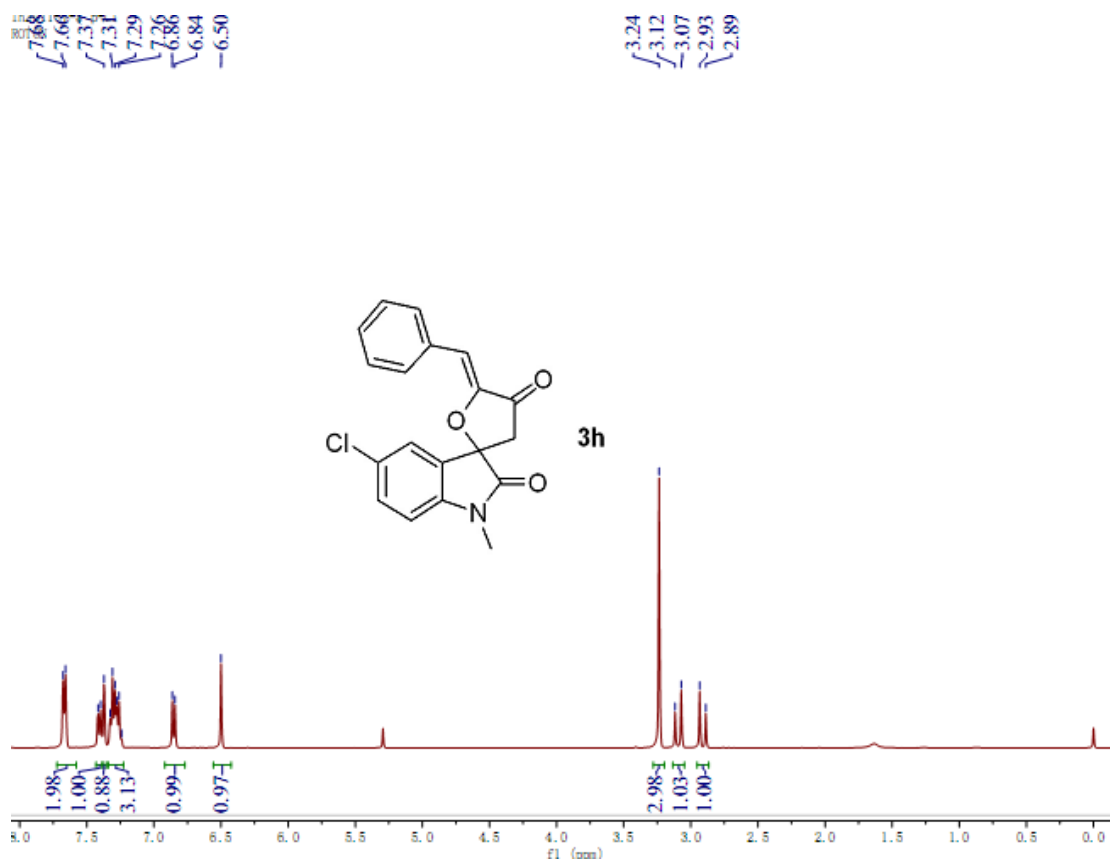
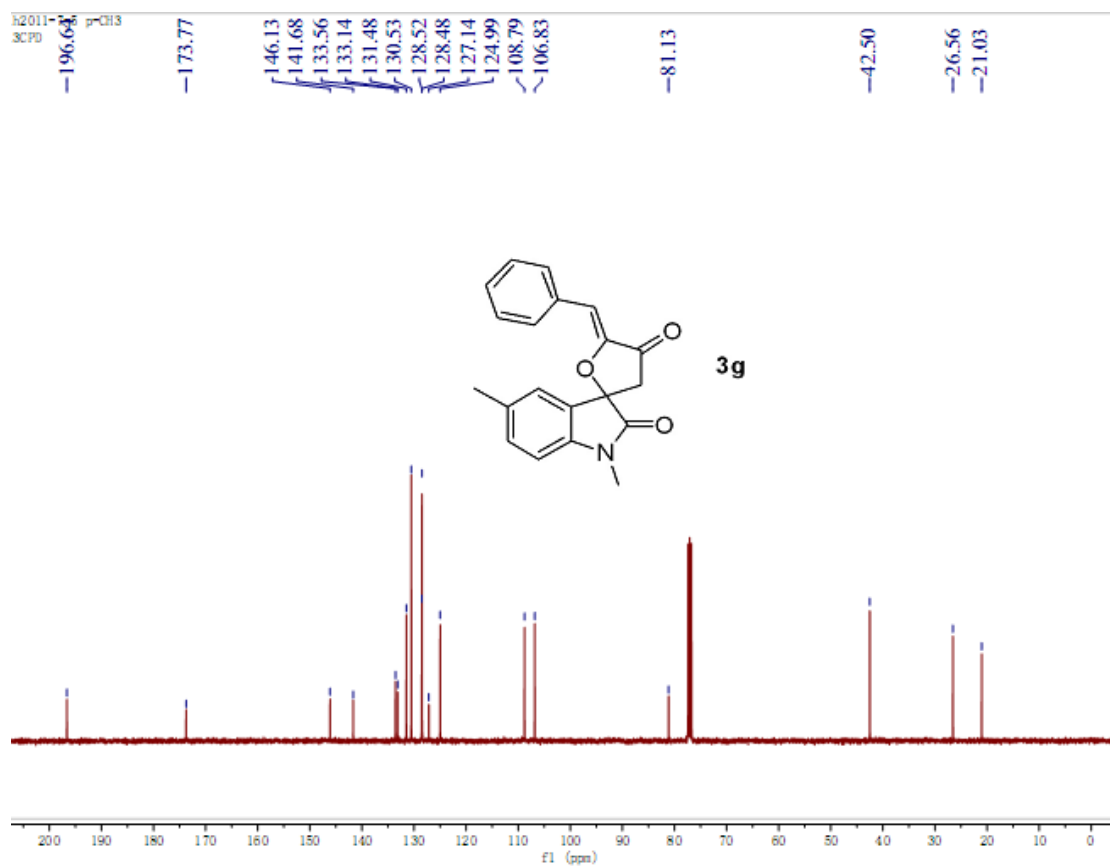


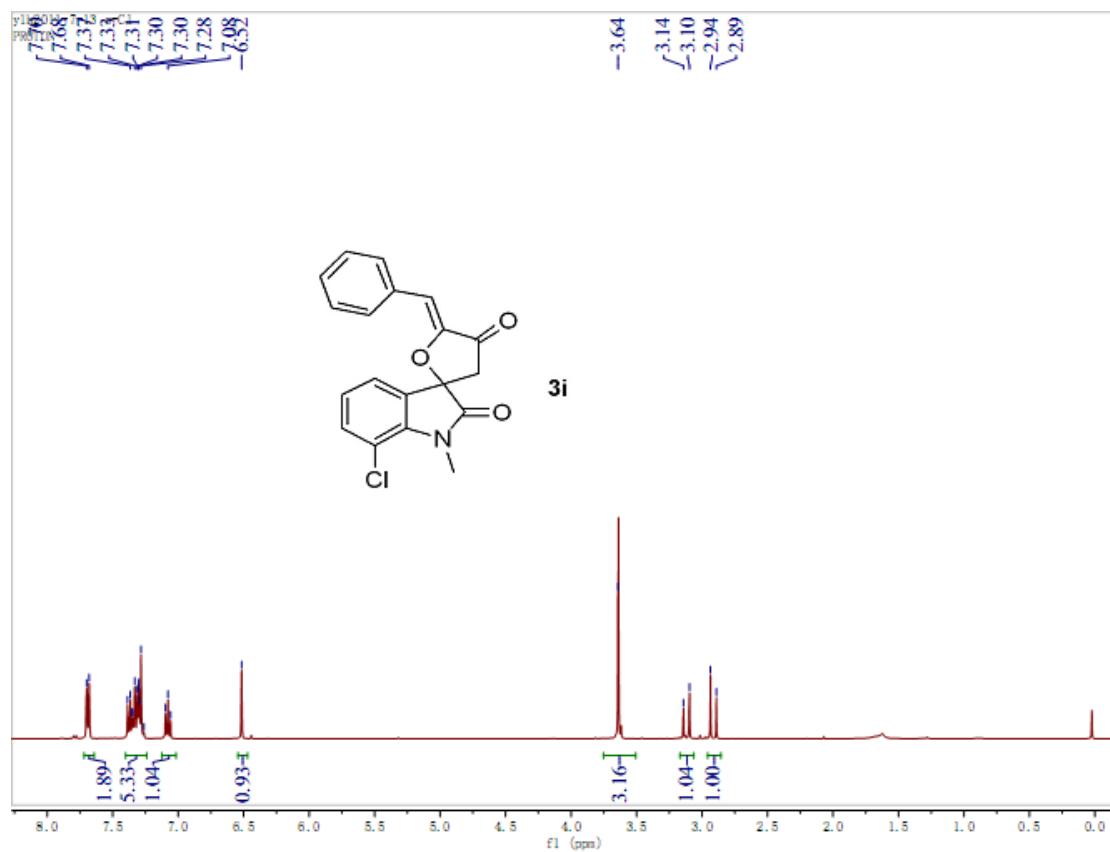
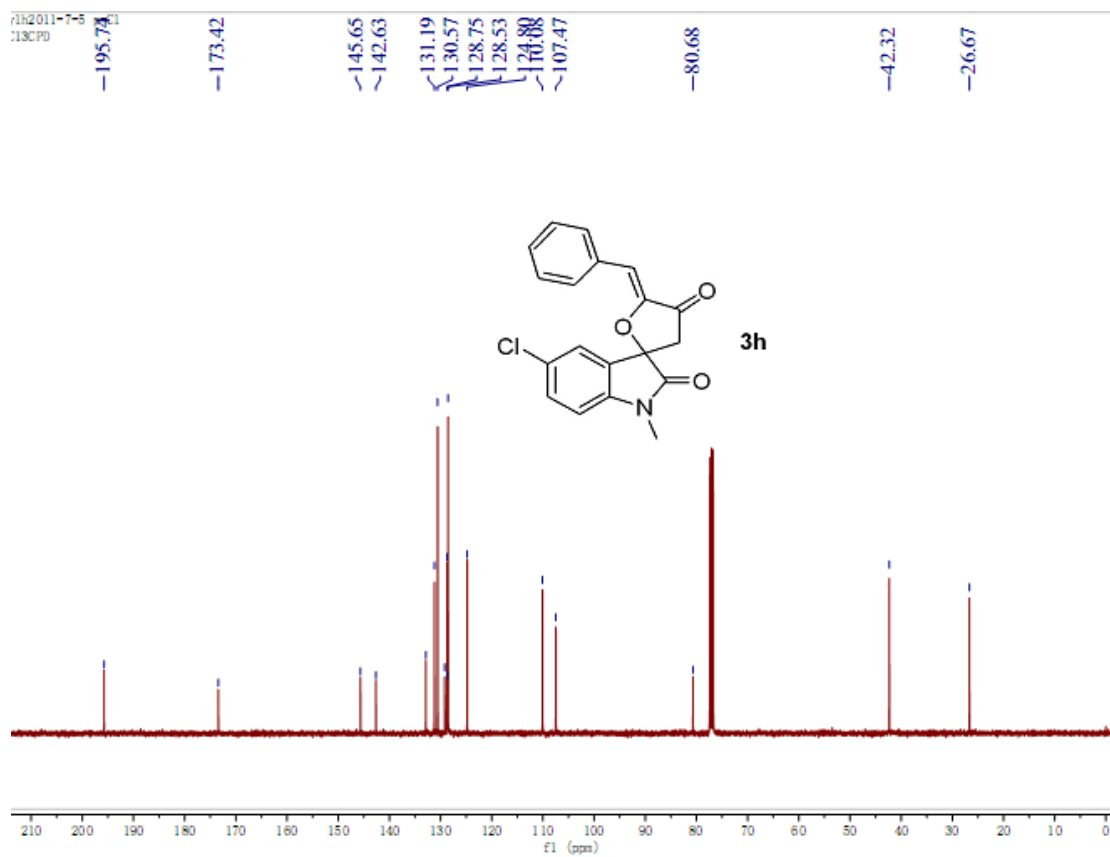


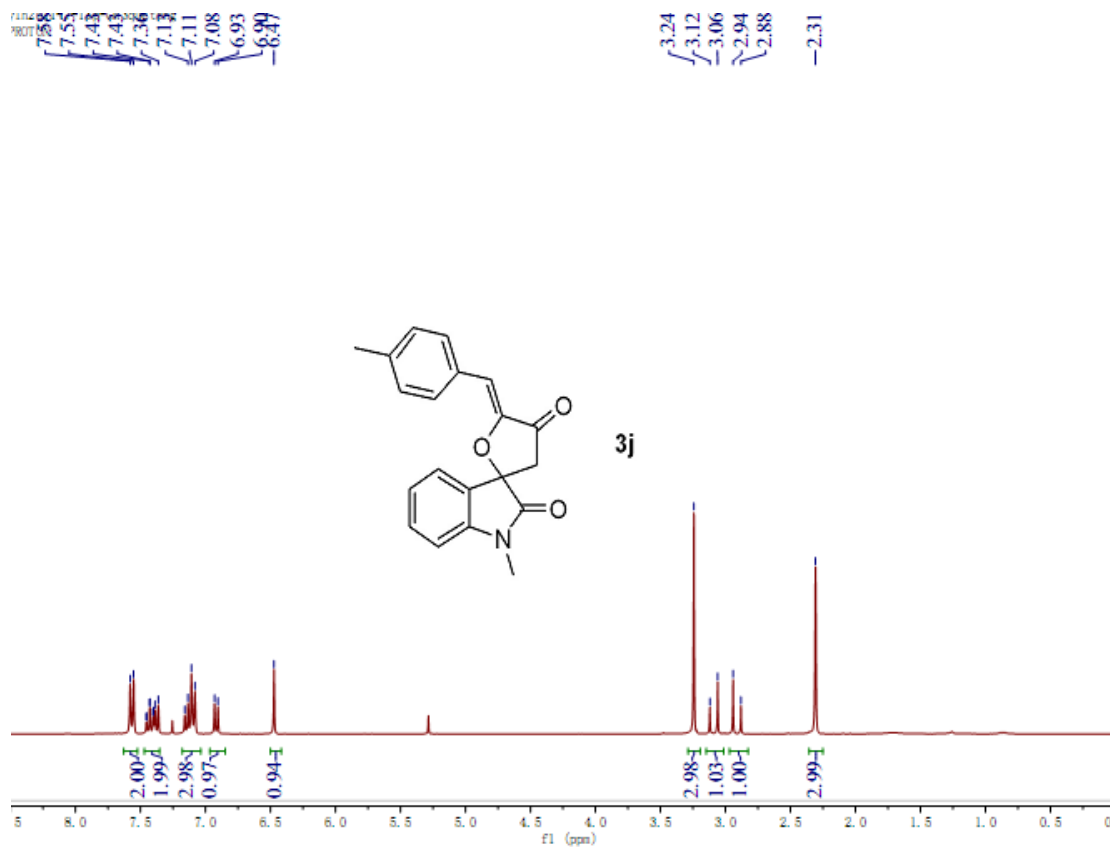
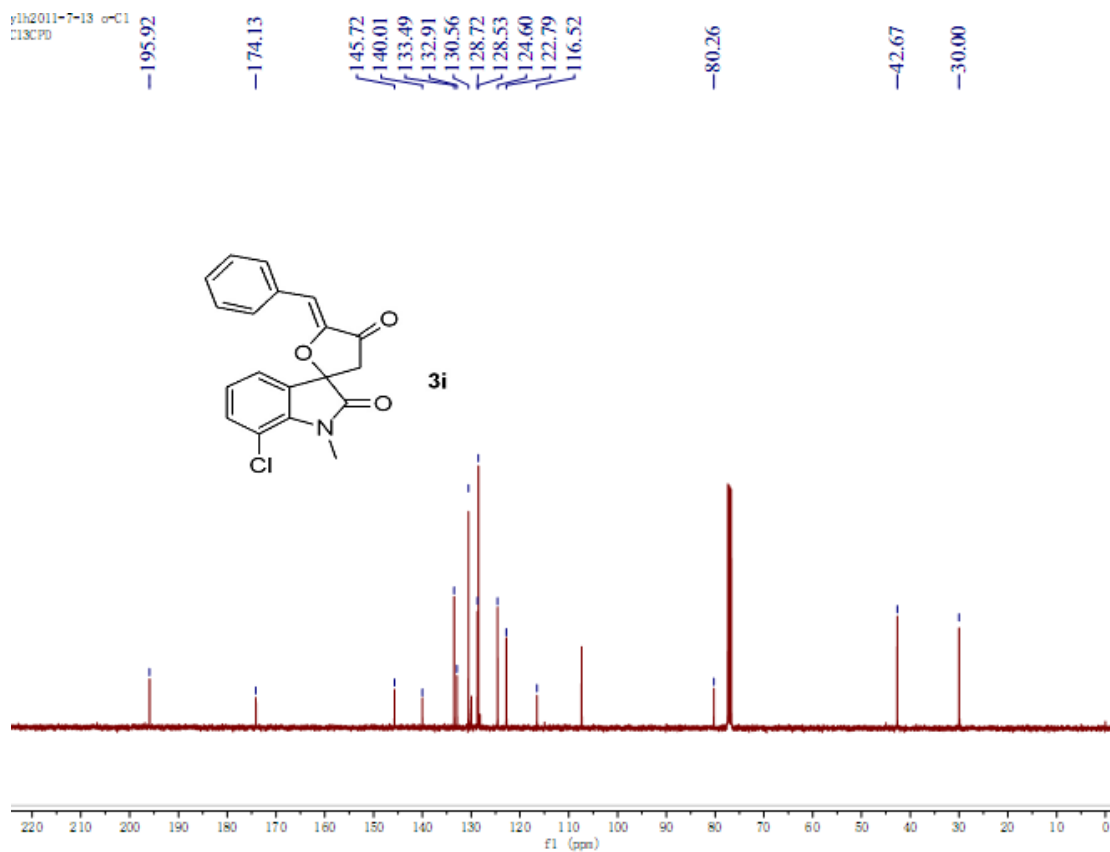


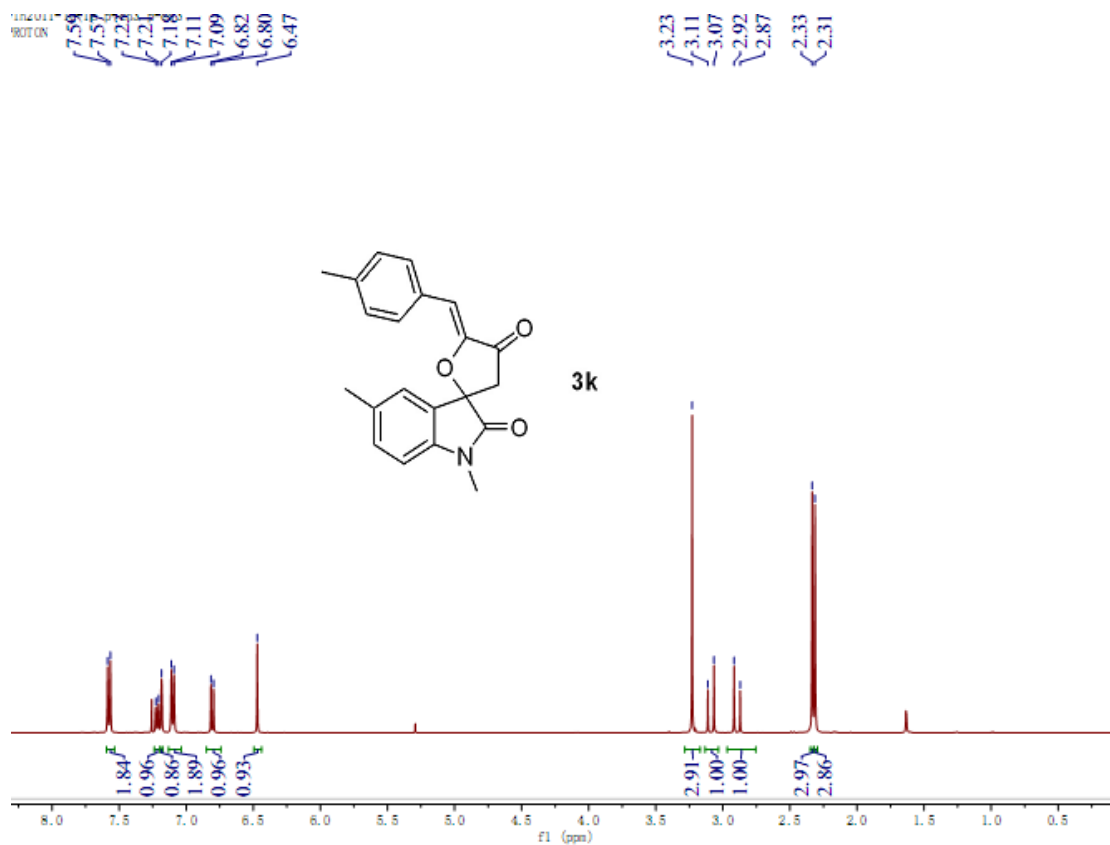
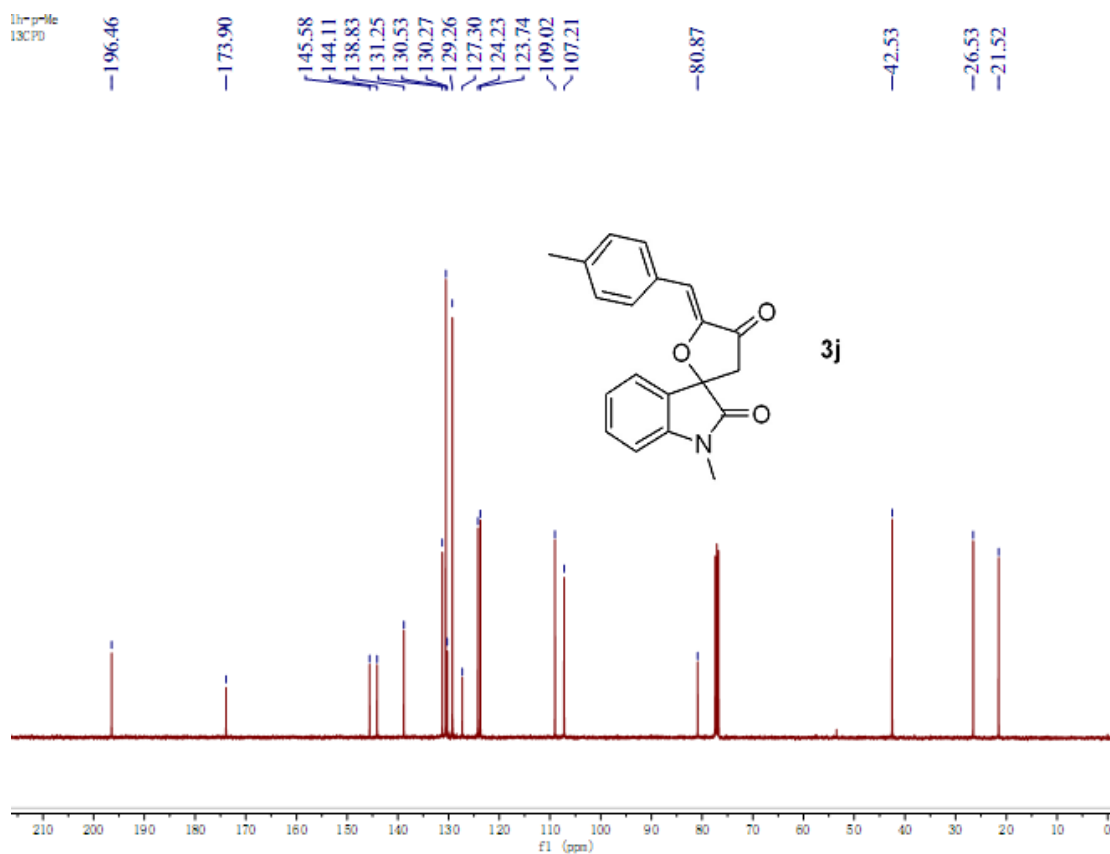


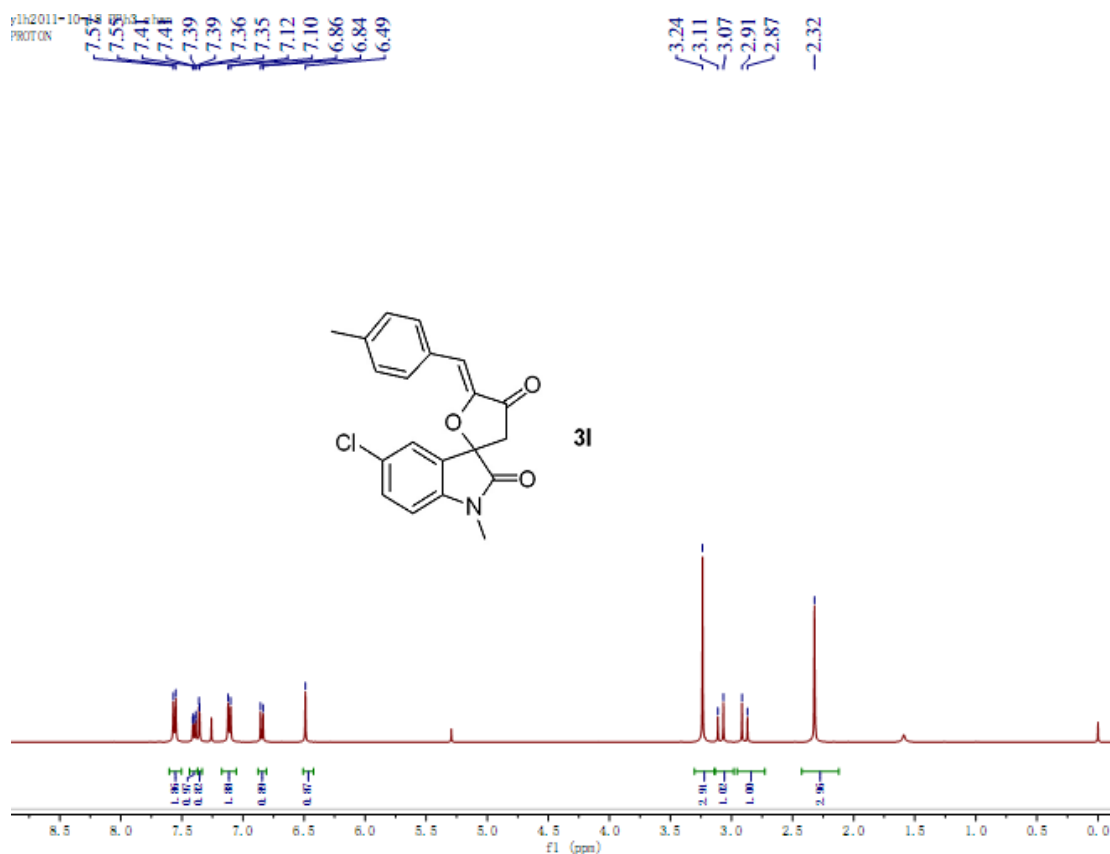
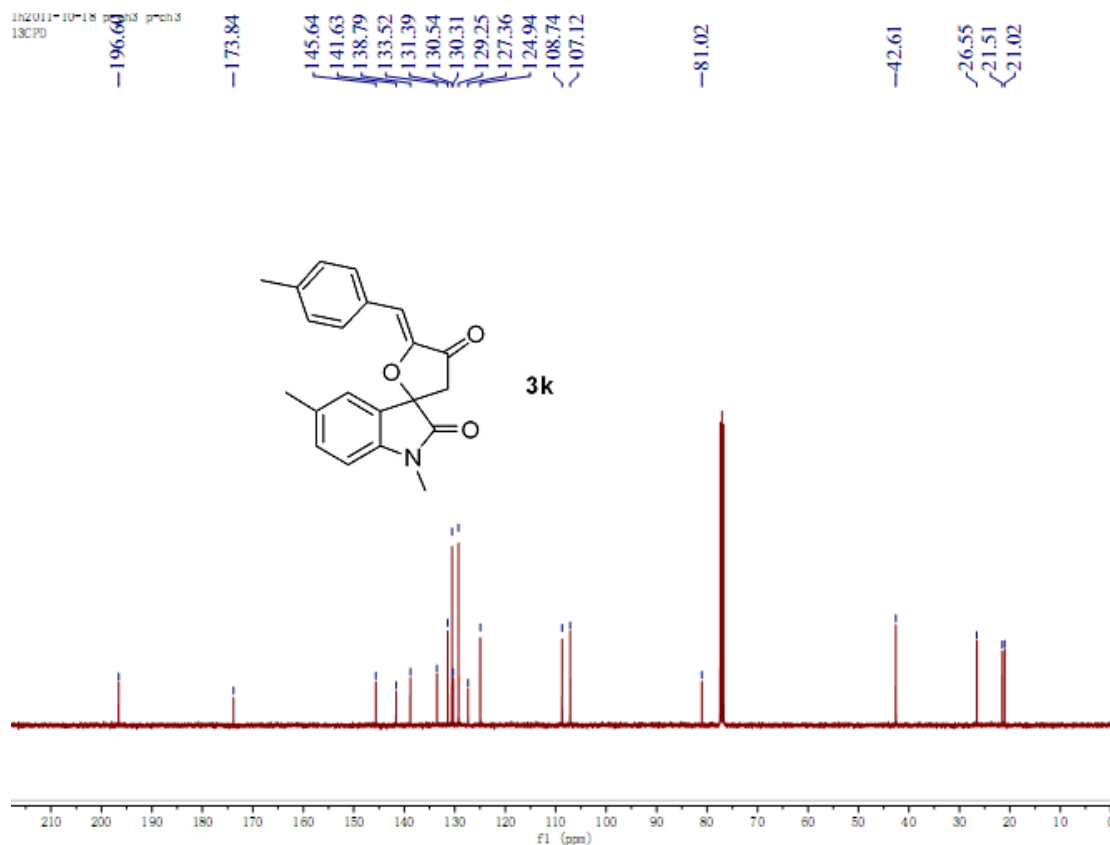


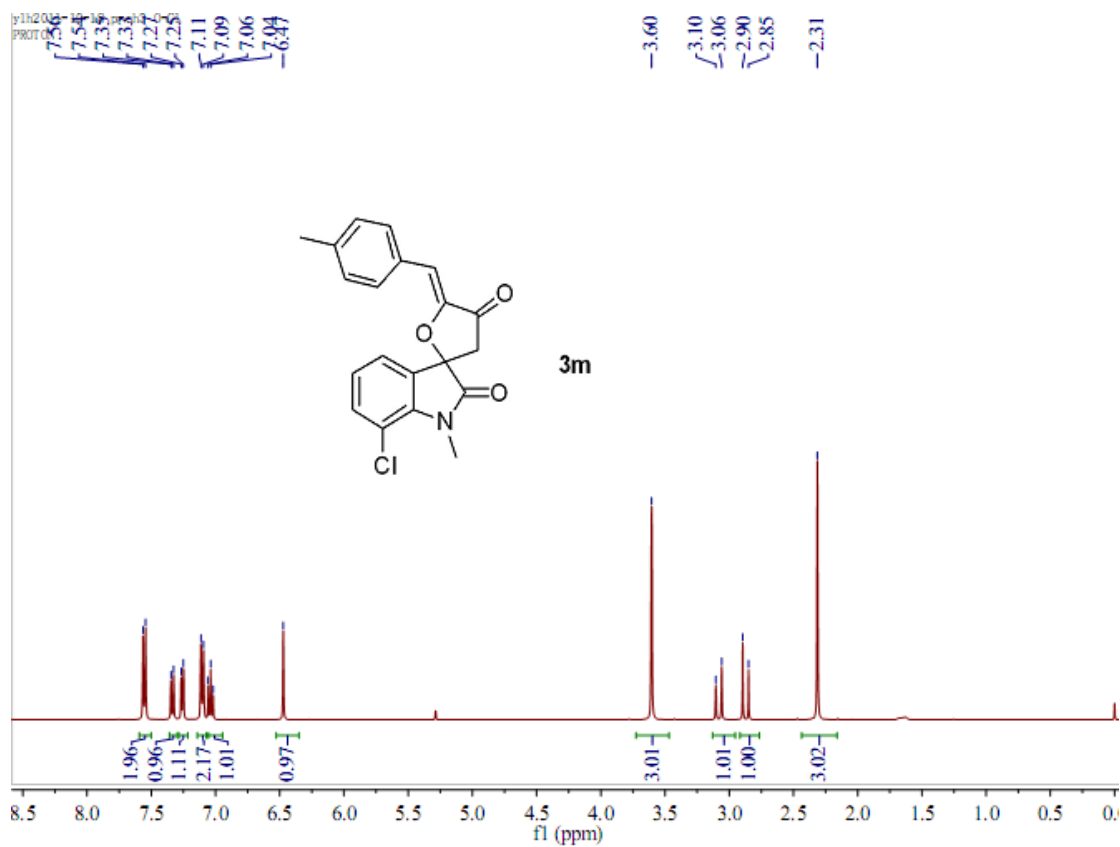
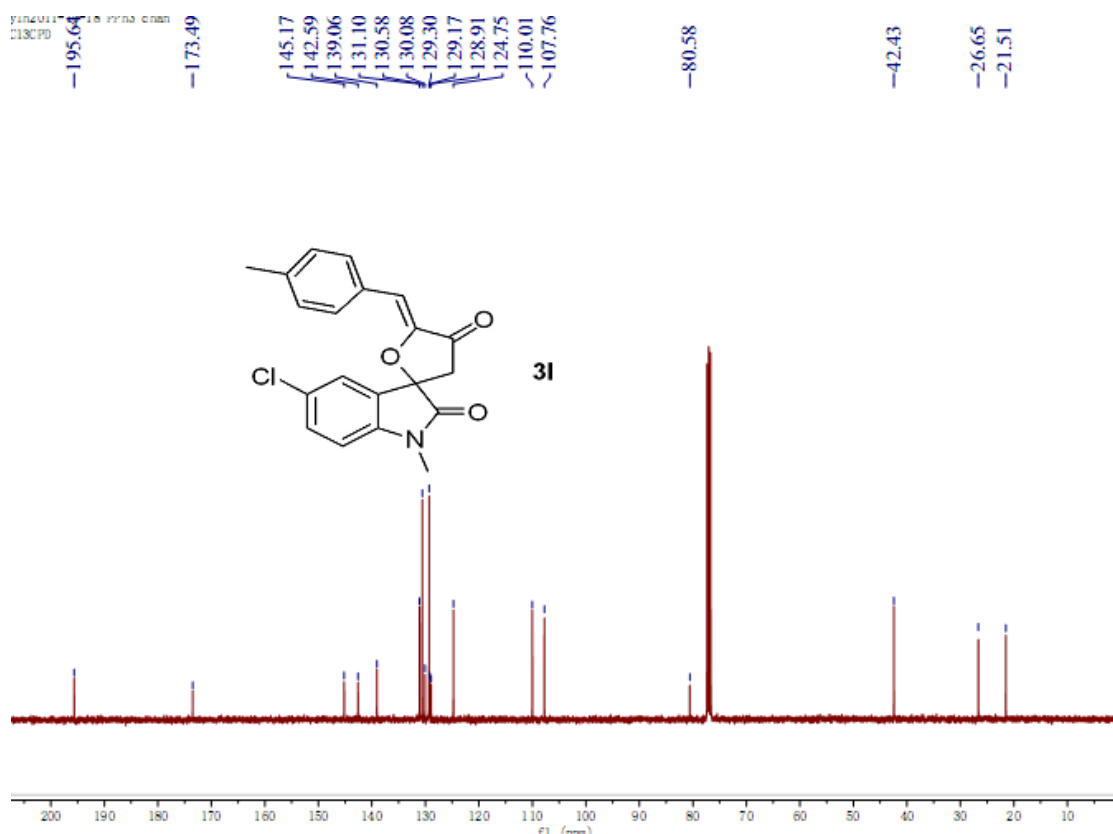


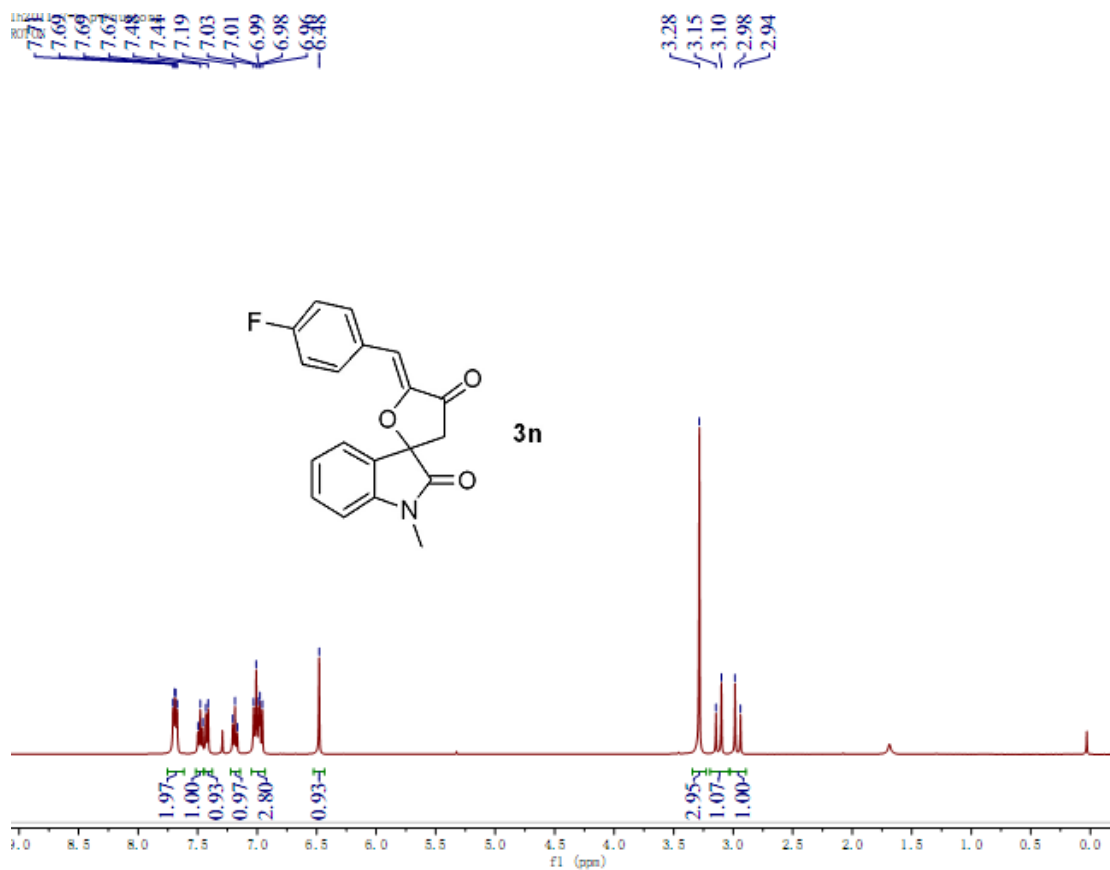
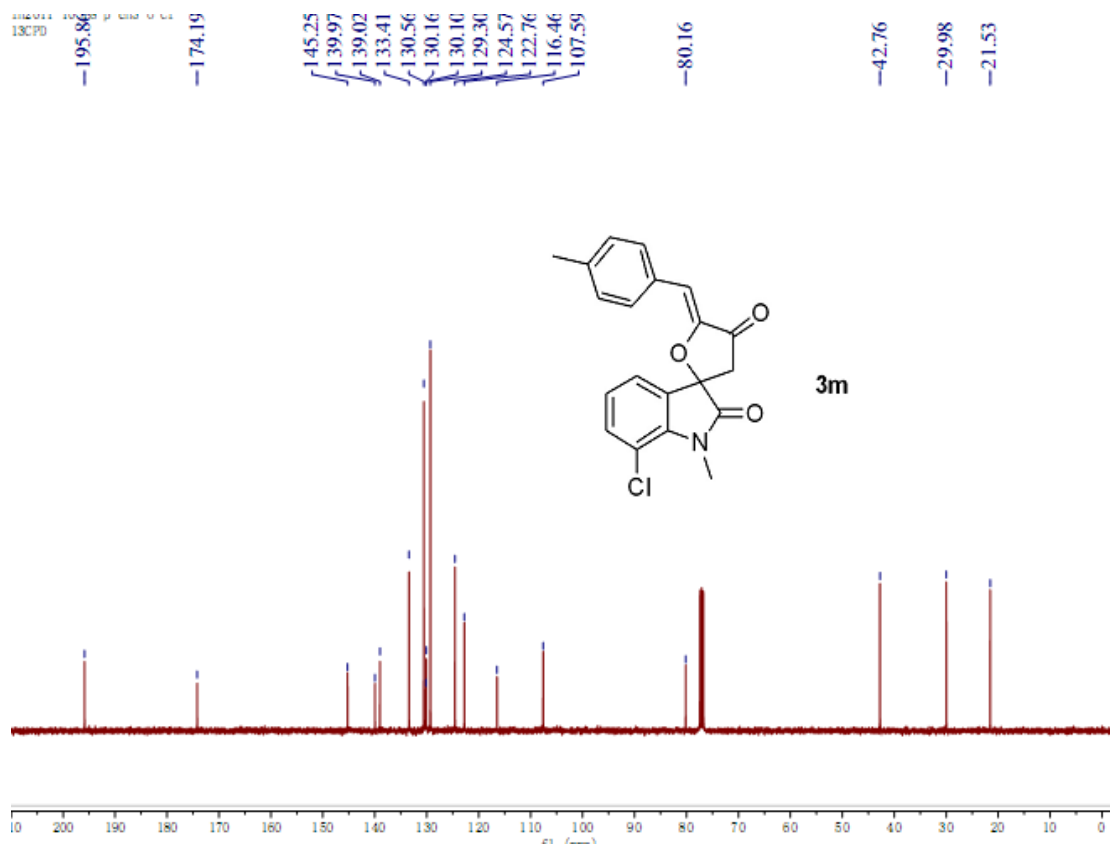


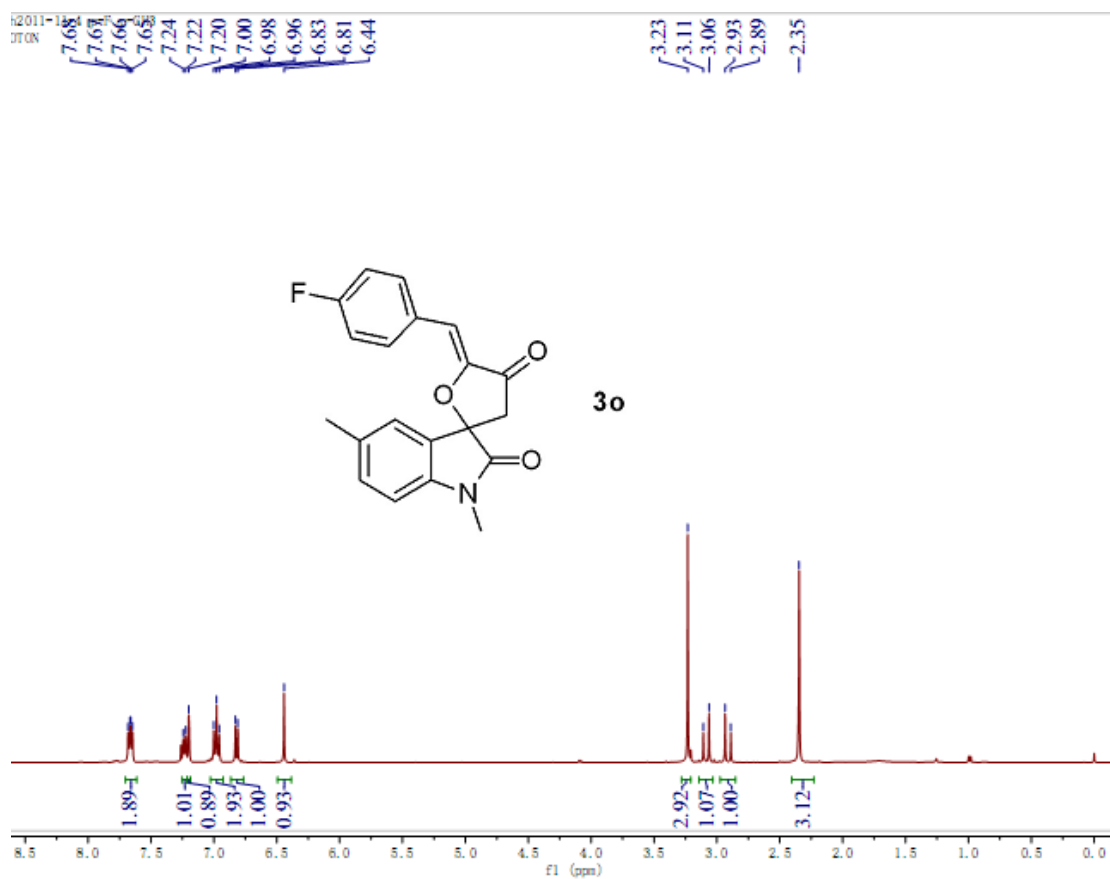
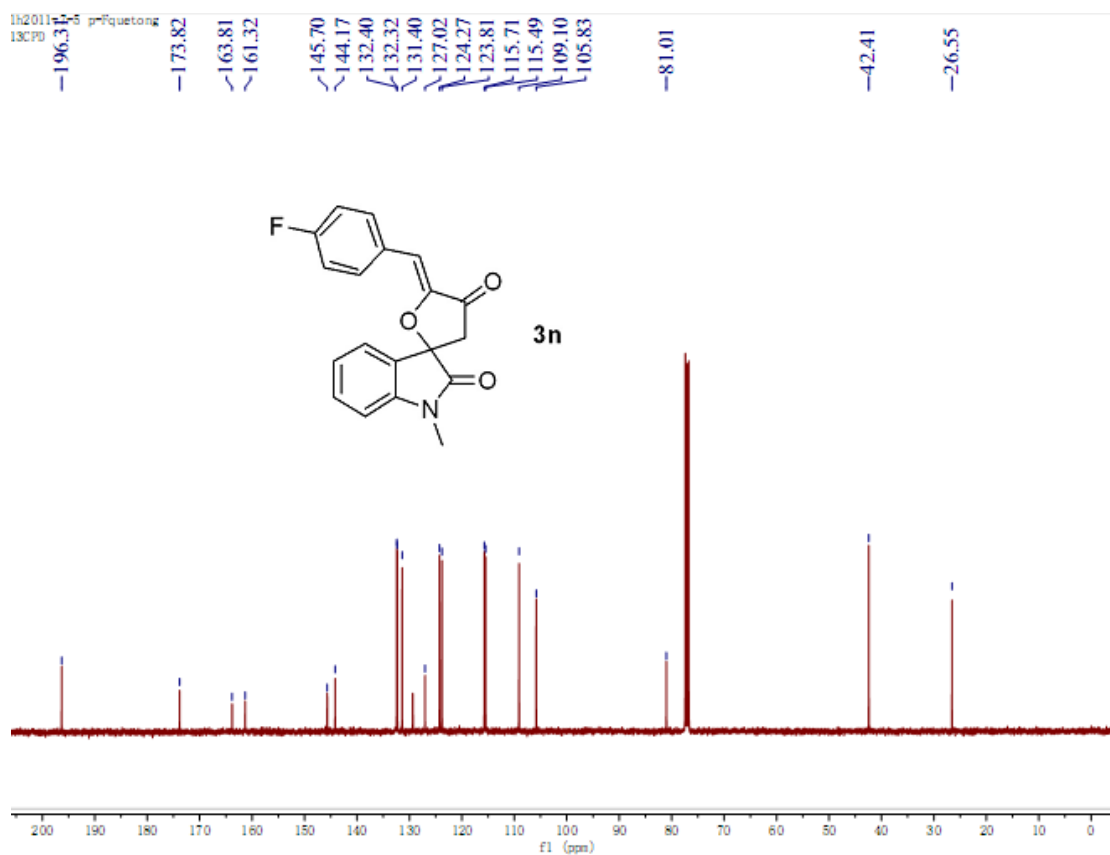


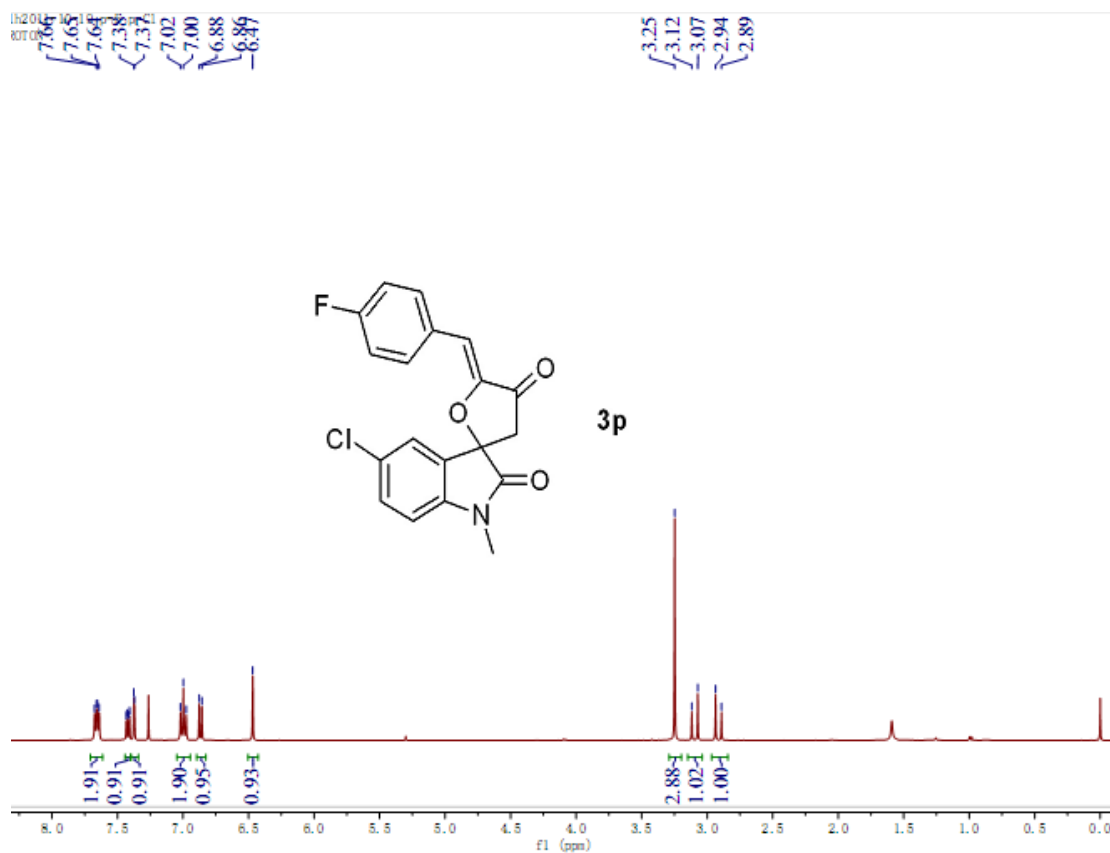
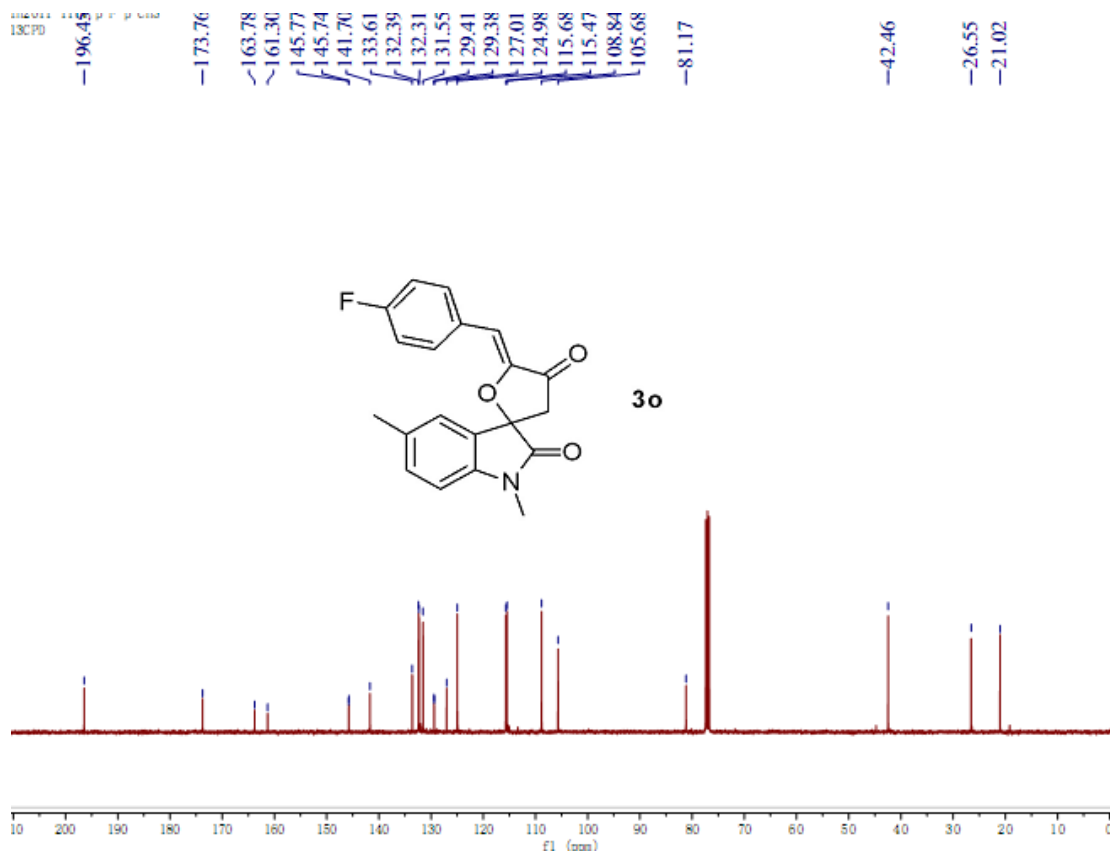


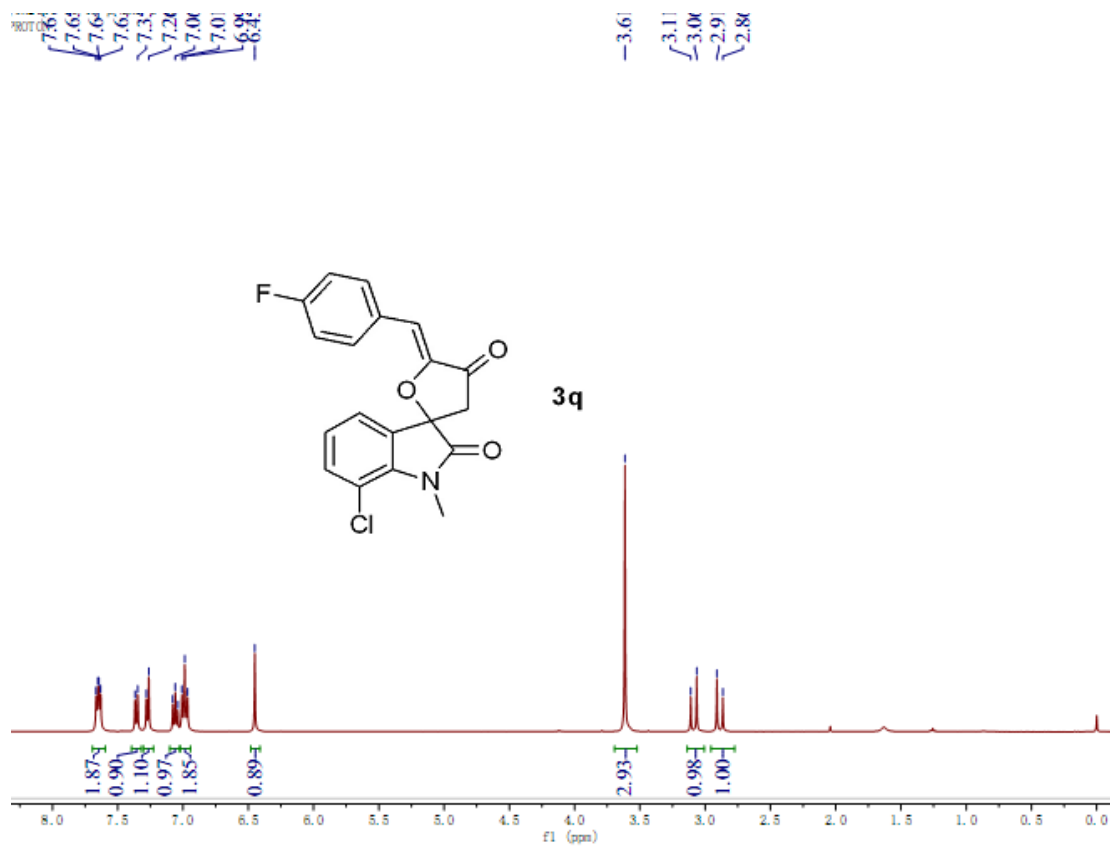
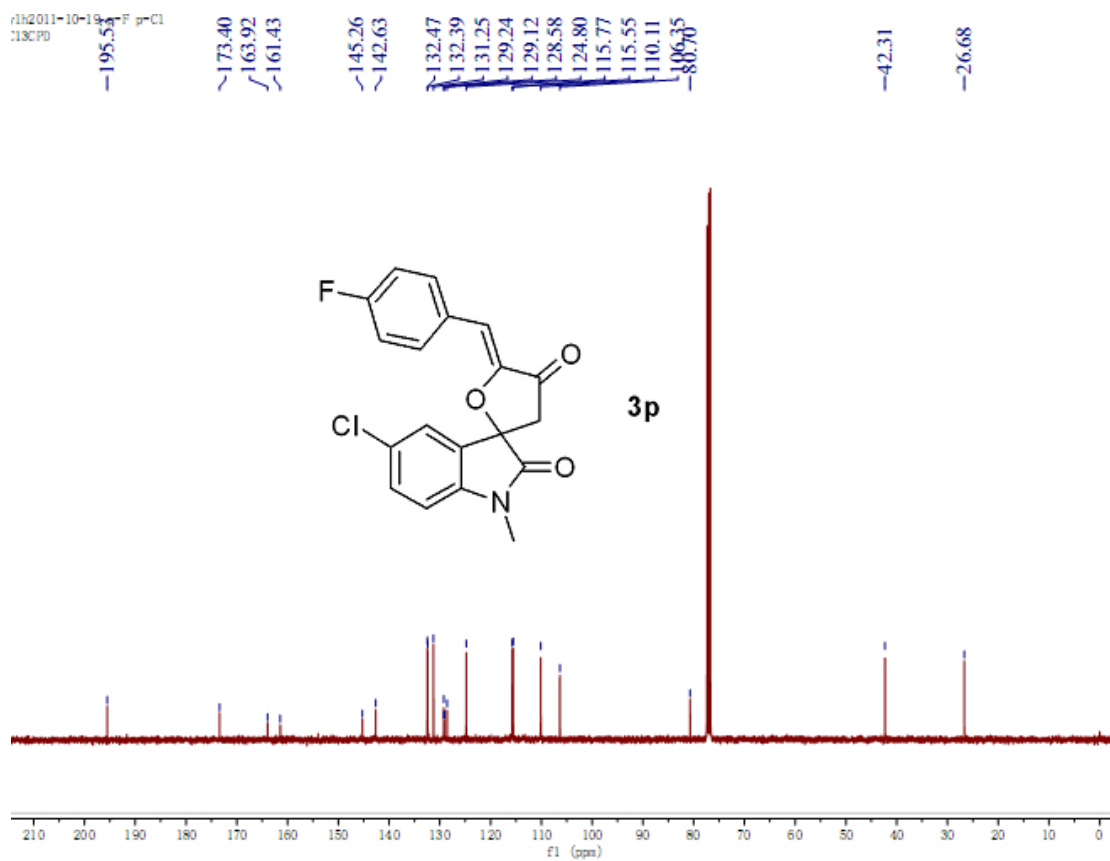


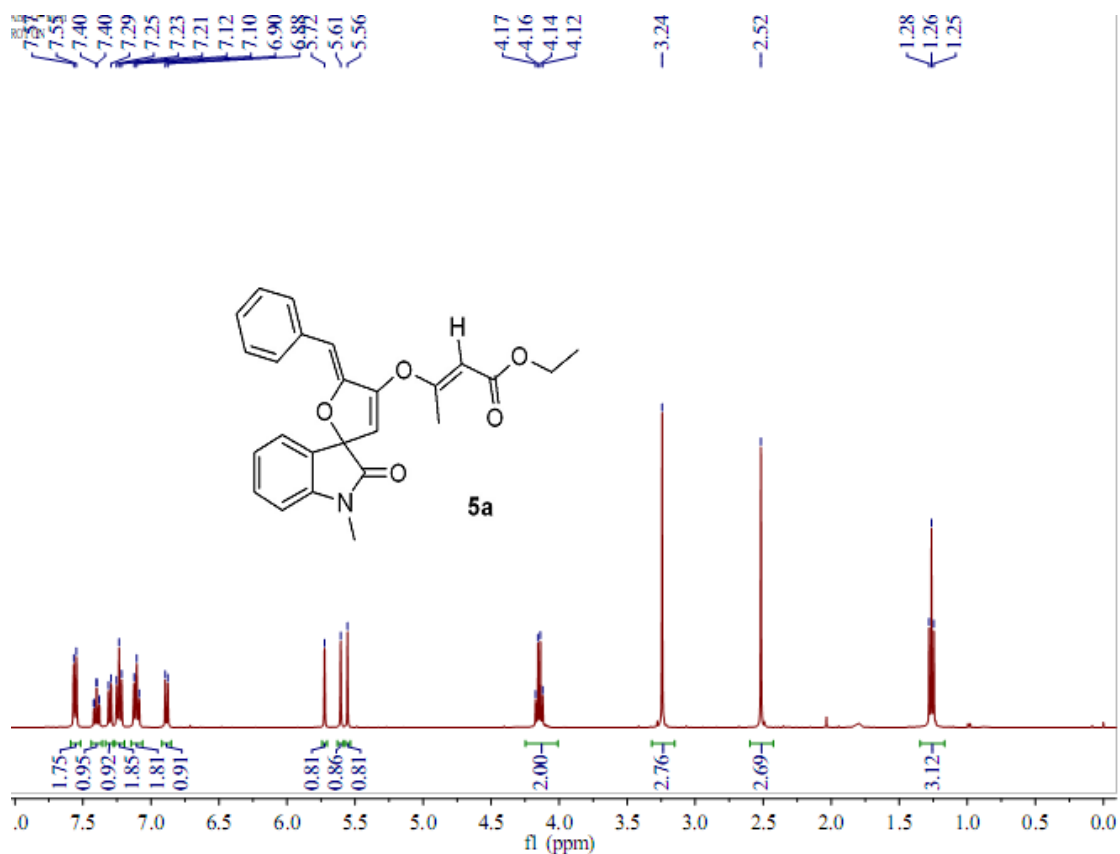
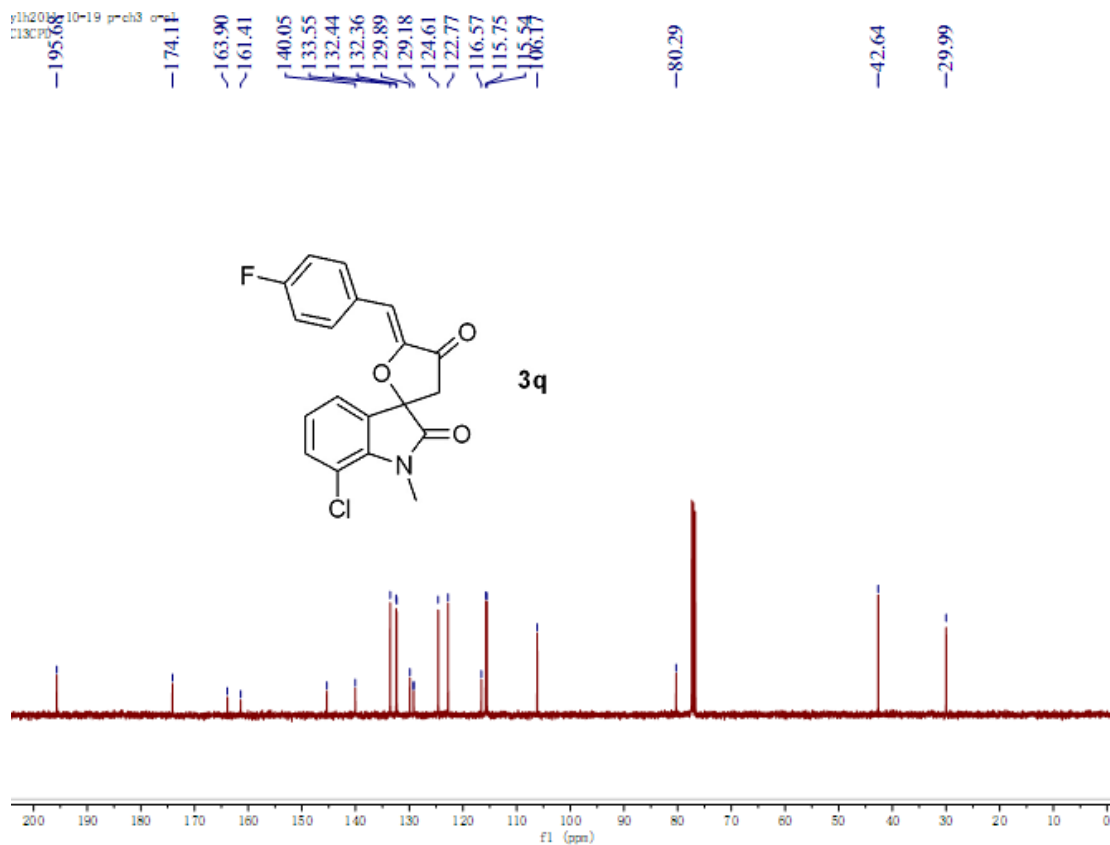


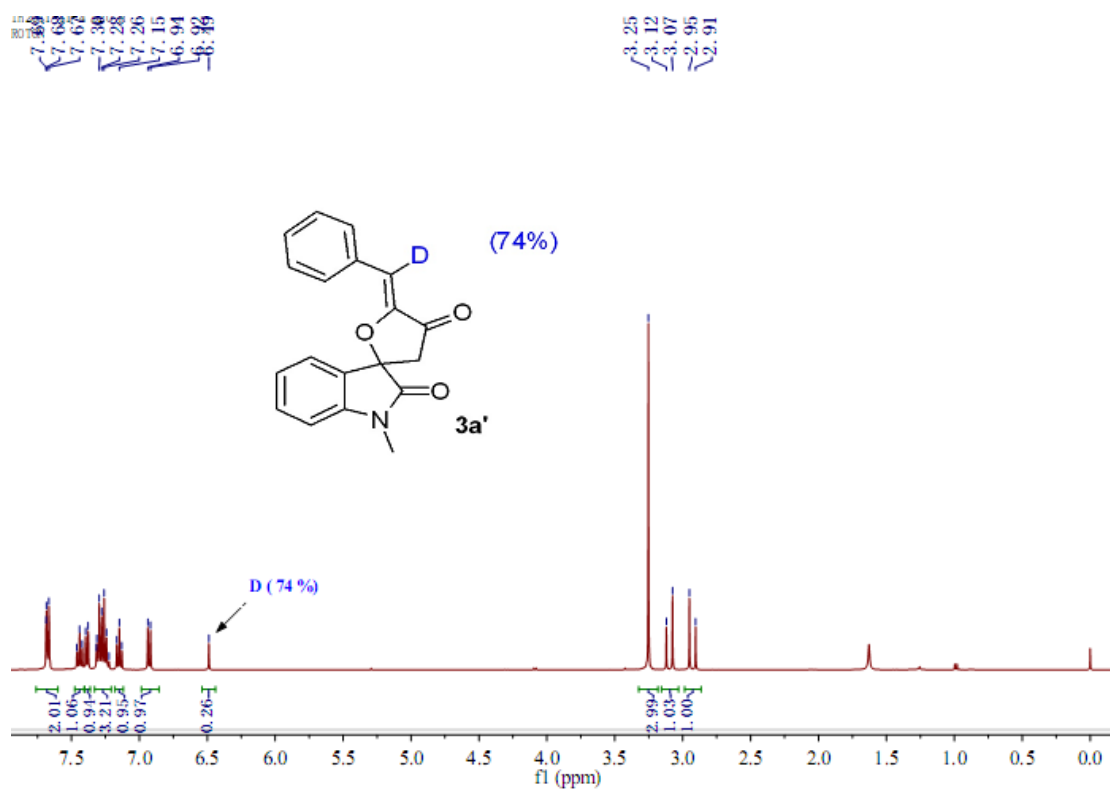
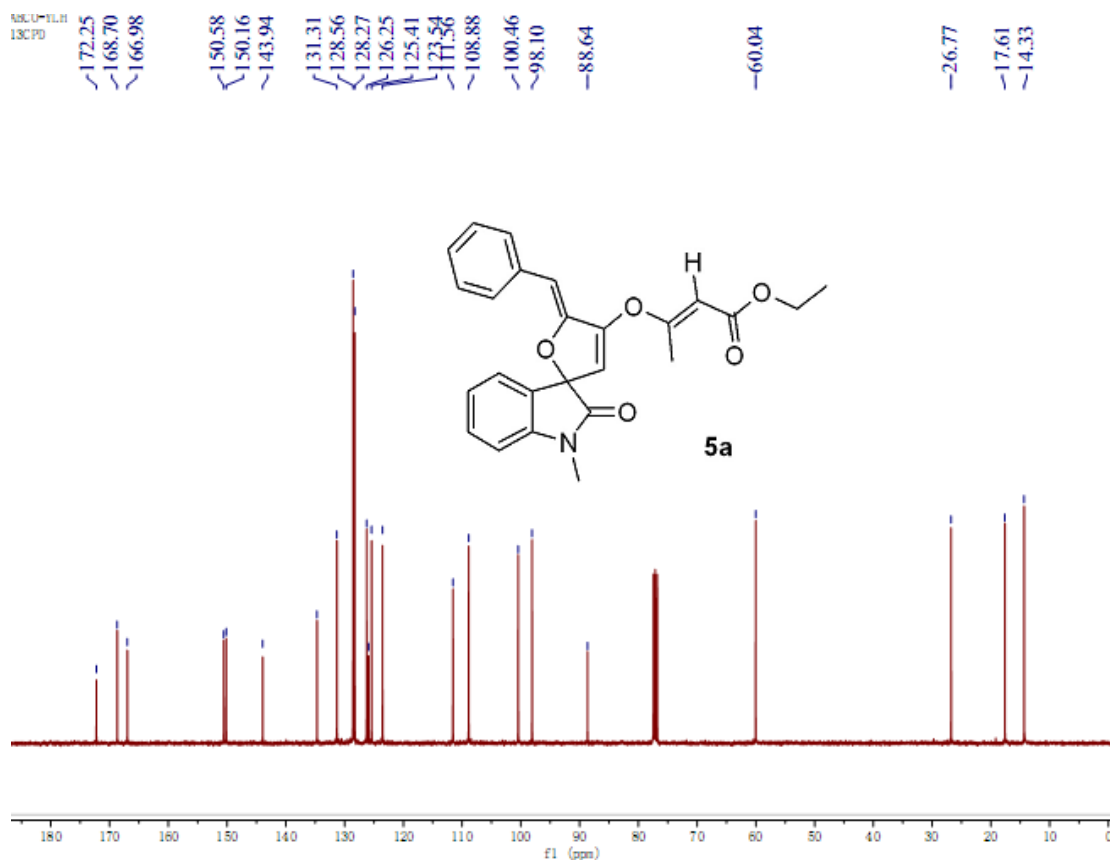


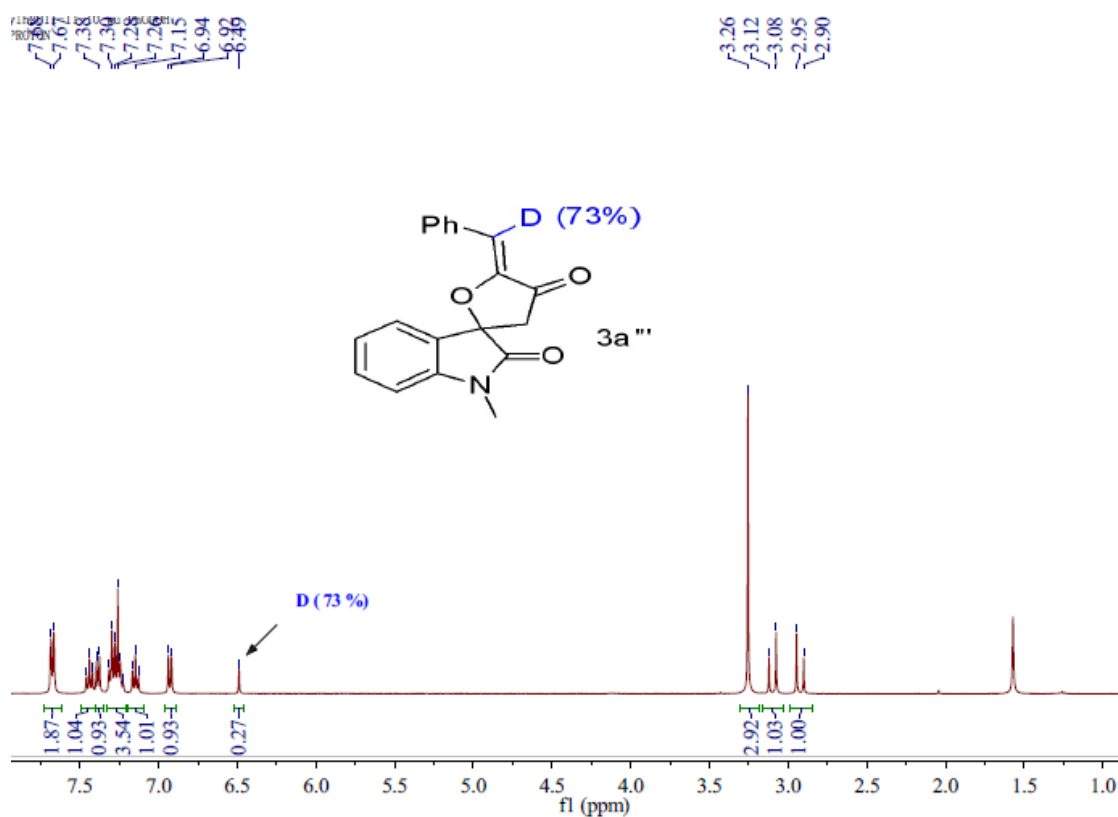
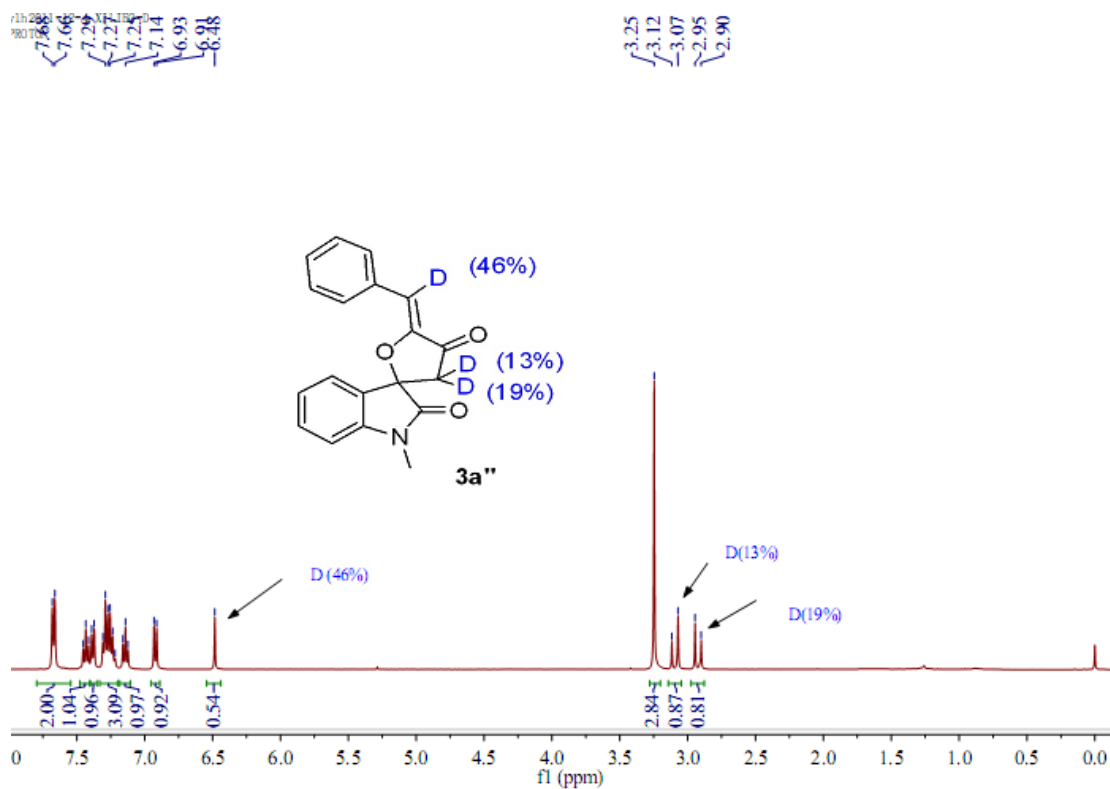








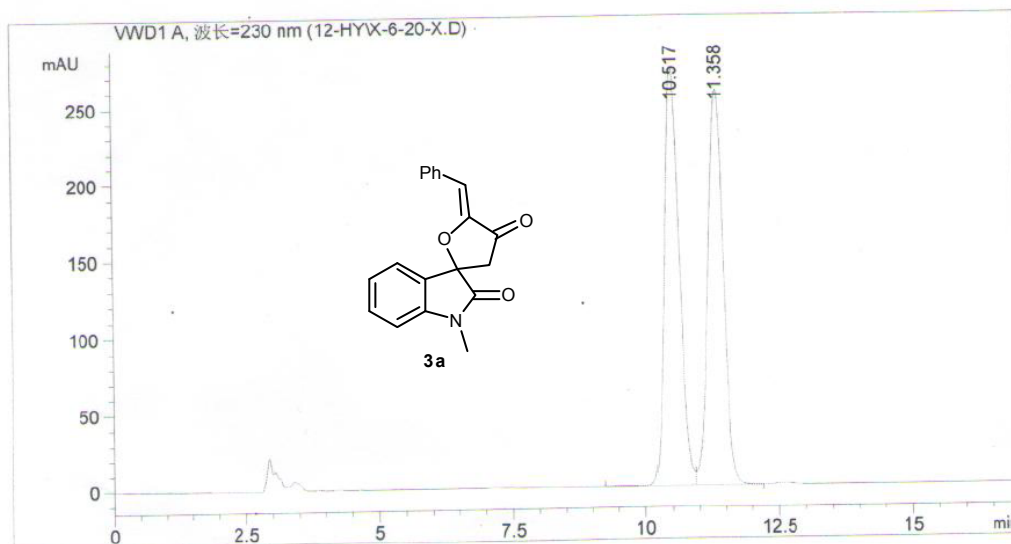




2. Chiral HPLC analyses (3a)

数据文件: D:\CHEM32\2\DATA\12-HY\X-6-20-X.D

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操作者 :
仪器 : 仪器 2 位置 : 样品瓶 1
进样日期 : 2012-6-20 9:00:50 上午
采集方法 : D:\CHEM32\2\DATA\10-YING\M100604A-C.D\DA.M
最后修改 : 2012-6-20 8:39:58 上午
(调用后修改)
分析方法 : D:\CHEM32\2\DATA\10-YING\M100604A-C.D\DA.M
最后修改 : 2012-6-19 11:41:47 上午
样品信息 : AD-H Hexane:Isopropanol=70:30 1.0mL/min 53bar
=====



=====
面积百分比报告
=====

排序 : 信号
乘积因子 : 1.0000
稀释因子 : 1.0000
内标使用乘积因子和稀释因子

信号 1: WVD1 A, 波长=230 nm

| 峰 # | 保留时间 [min] | 类型 | 峰宽 [min] | 峰面积 mAU *s | 峰高 [mAU] | 峰面积 % |
|-----|------------|----|----------|------------|-----------|---------|
| 1 | 10.517 | BV | 0.2880 | 5142.66064 | 275.13461 | 49.7921 |
| 2 | 11.358 | VV | 0.3117 | 5185.61523 | 259.61255 | 50.2079 |

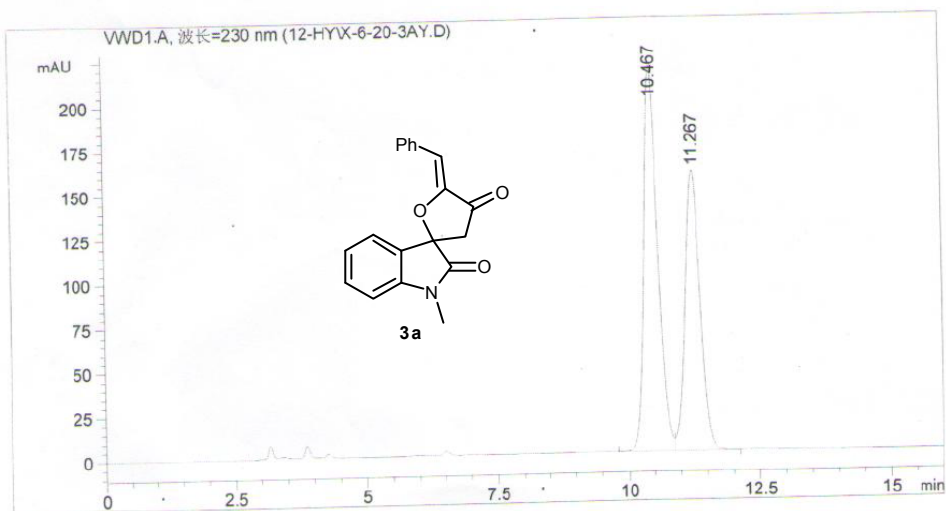
总量 : 1.03283e4 534.74716

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*** 报告结束 ***
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数据文件: D:\CHEM32\2\DATA\12-HY\X-6-20-3AY.D

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分析方法    : D:\CHEM32\2\DATA\10-YING\M100604A-C.D\DA.M
最后修改    : 2012-6-19 11:41:47 上午
样品信息    : AD-H Hexane:Isopropanol=70:30 1.0mL/min 53bar
    
```



面积百分比报告

```

=====
排序      :      信号
乘积因子  :      1.0000
稀释因子  :      1.0000
内标使用乘积因子和稀释因子
    
```

信号 1: WVD1 A, 波长=230 nm

| 峰 # | 保留时间 [min] | 类型 | 峰宽 [min] | 峰面积 mAU *s | 峰高 [mAU] | 峰面积 % |
|-----|------------|----|----------|------------|-----------|---------|
| 1 | 10.467 | VV | 0.2835 | 4048.84375 | 218.19069 | 56.2953 |
| 2 | 11.267 | VB | 0.3067 | 3143.30444 | 158.74644 | 43.7047 |

总量 : 7192.14819 376.93713

*** 报告结束 ***