

Metal-Free TBAI-Catalyzed Arylsulfonylation of Activated Alkenes with Sulfonylhydrazides

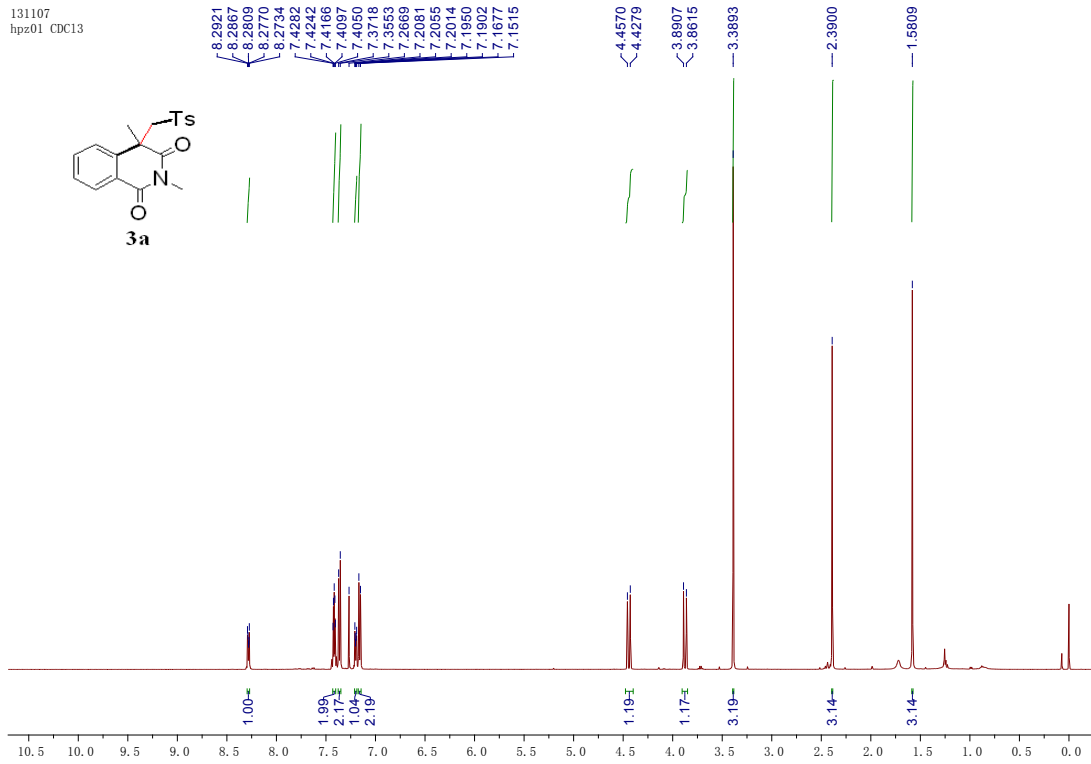
**Wubin Yu, Peizhu Hu, Yuanyuan Fan, Congyao Yu, Xinhuan Yan, Xiaoqing Li*,
Xiangsheng Xu,***

*College of chemical Engineering and Materials Science, Zhejiang University of
Technology, Hangzhou 310014, P. R. China.
E-mail: xqli@zjut.edu.cn; future@zjut.edu.cn*

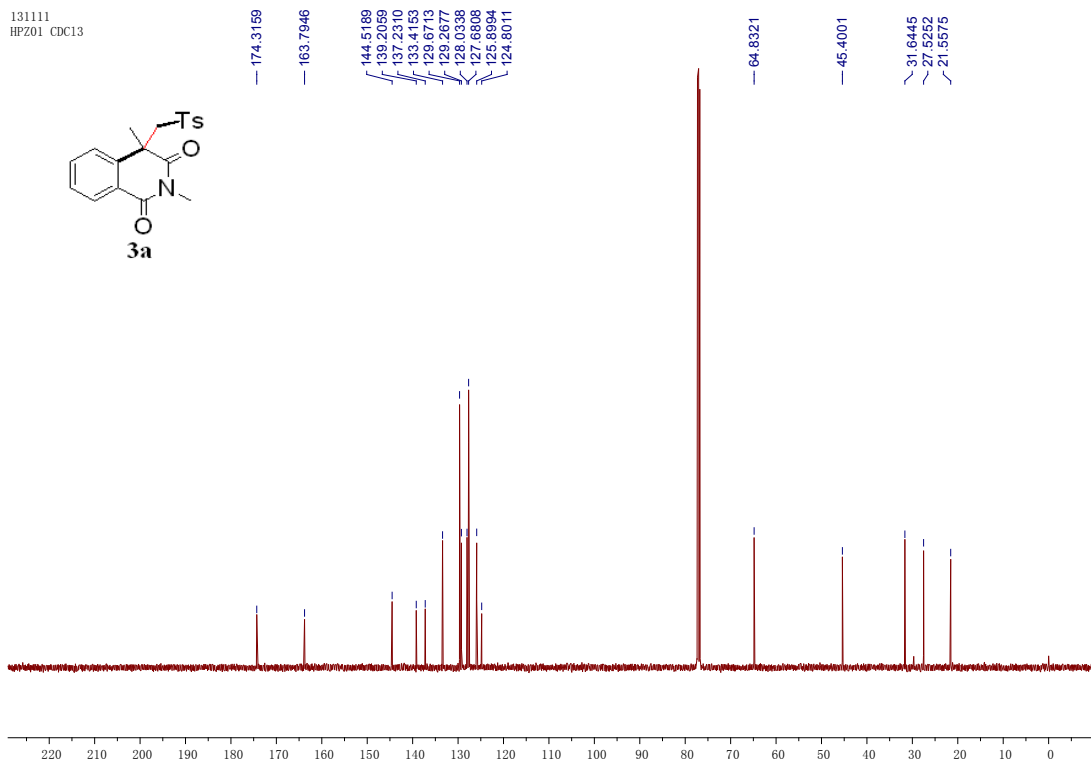
Supporting Information

1. ¹H and ¹³C NMR spectra of compounds **3**-----S2-S22

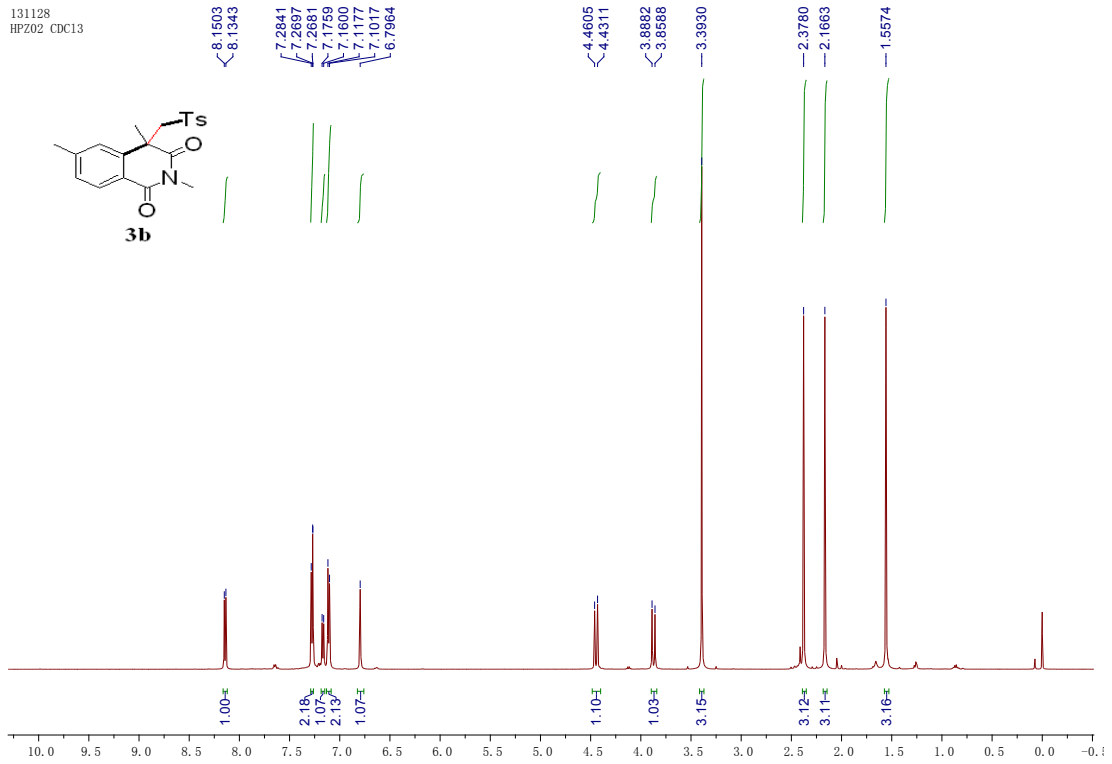
131107
hpz01 CDC13



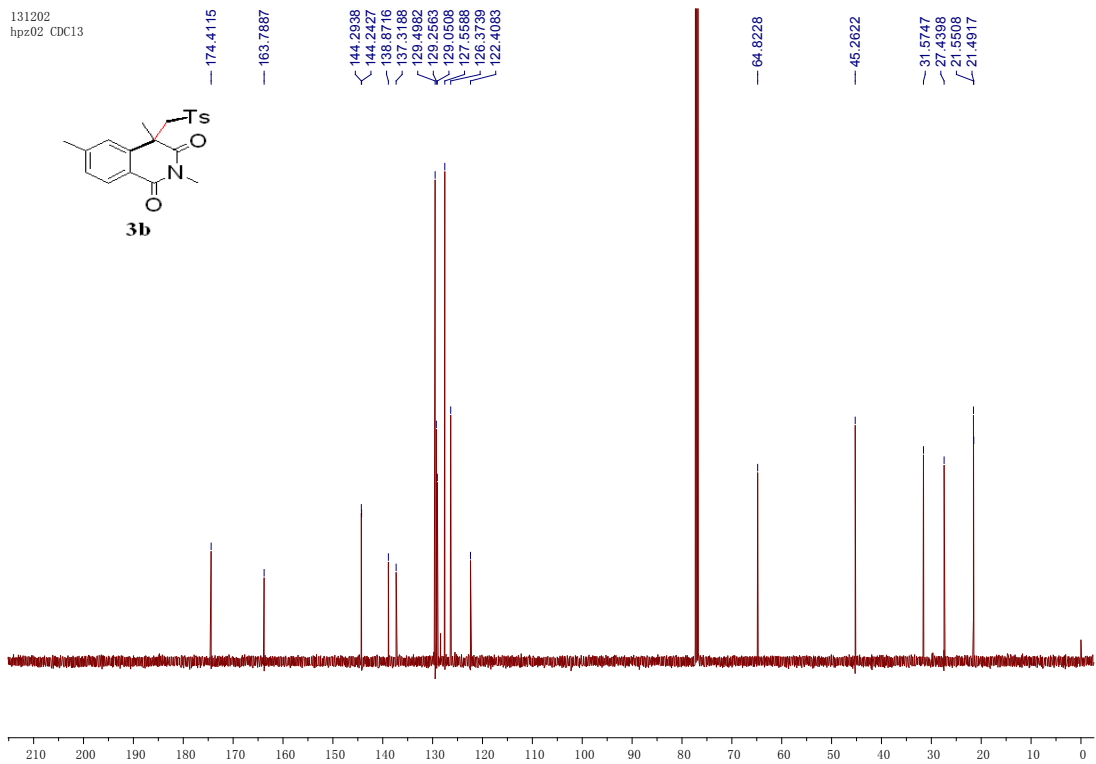
131111
HPZ01 CDC13



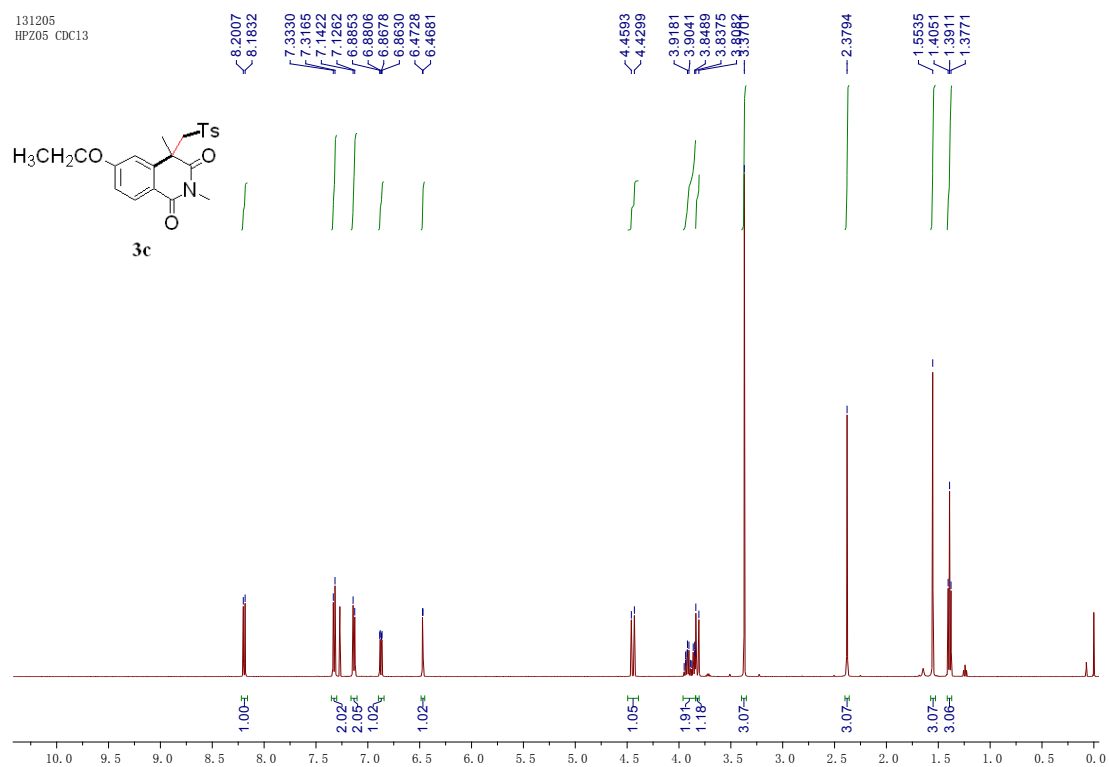
131128
HPZ02 CDC13



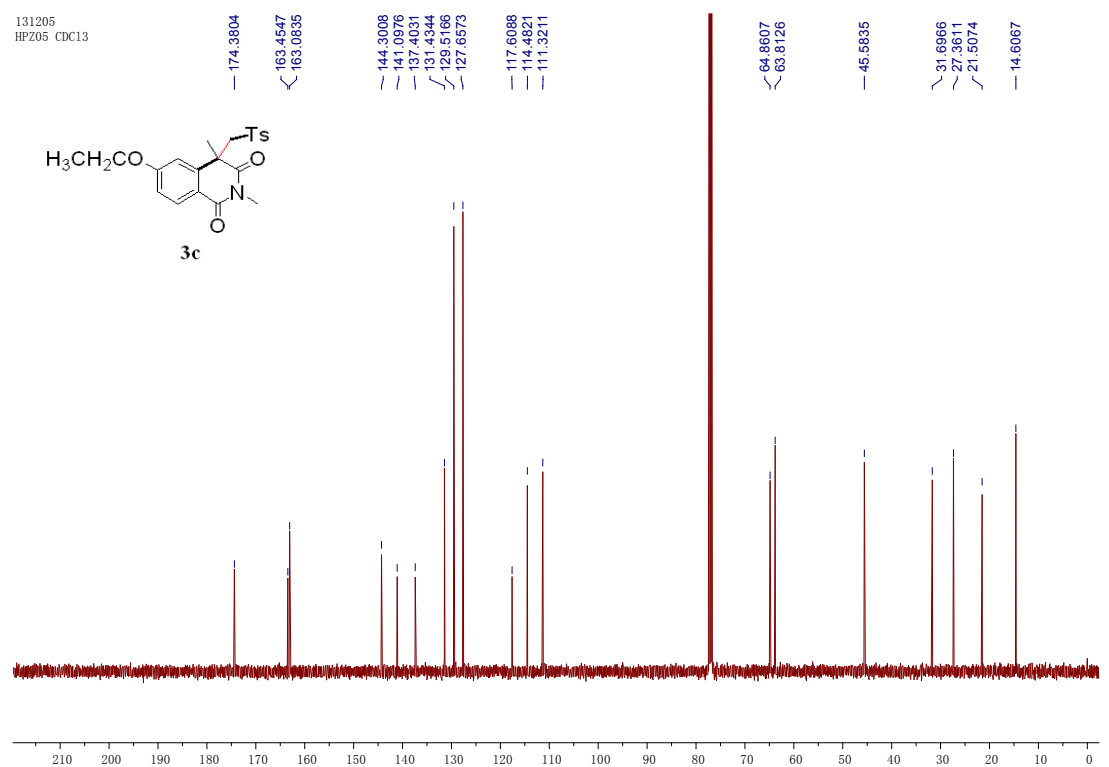
131202
hpz02 CDC13



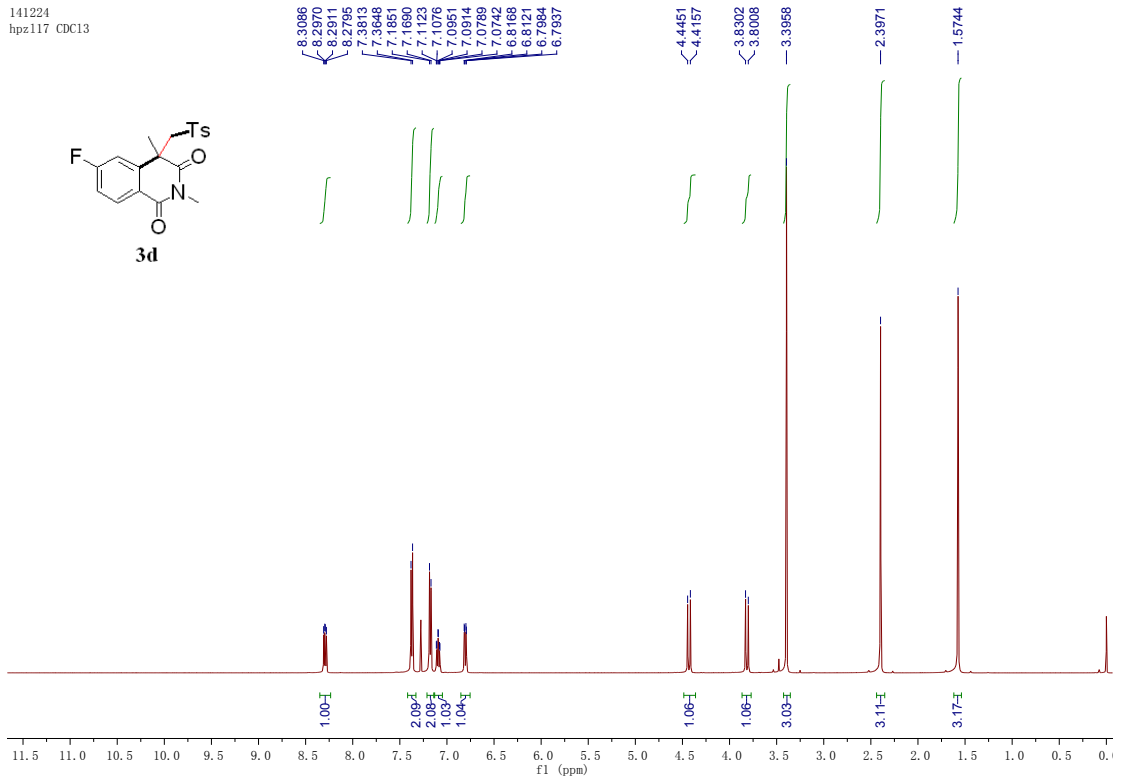
131205
HPZ05 CDC13



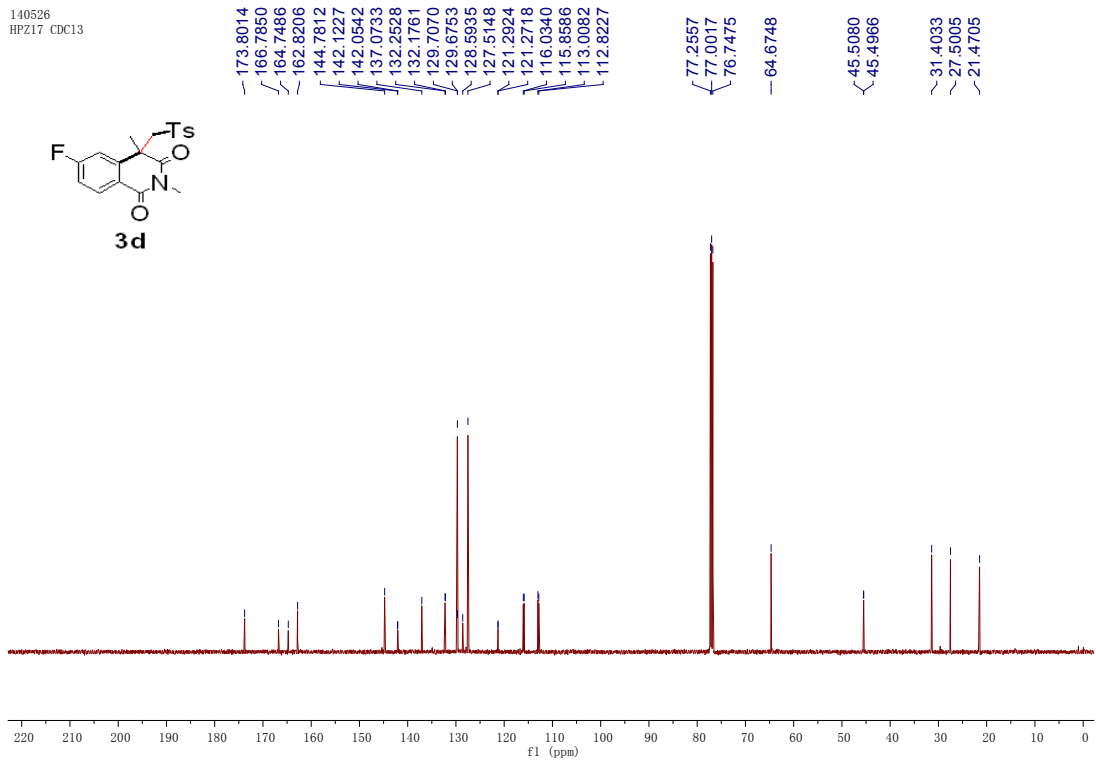
131205
HPZ05 CDC13



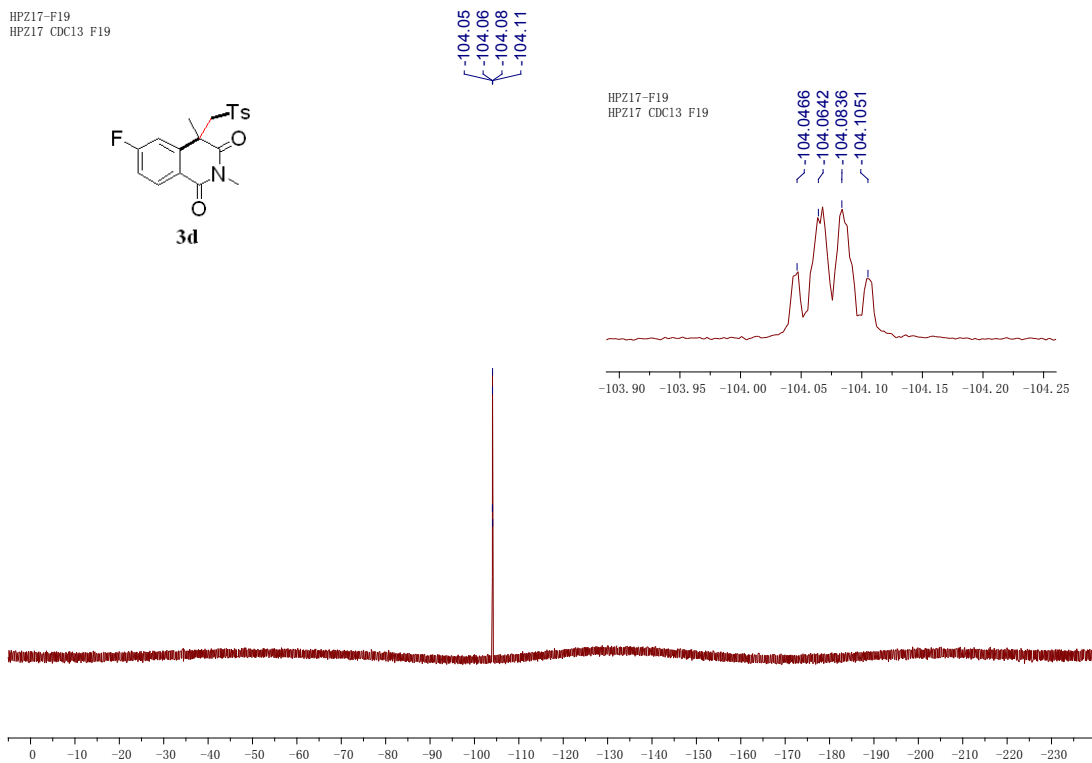
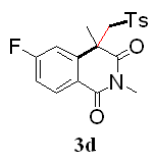
141224
hpz117 CDC13



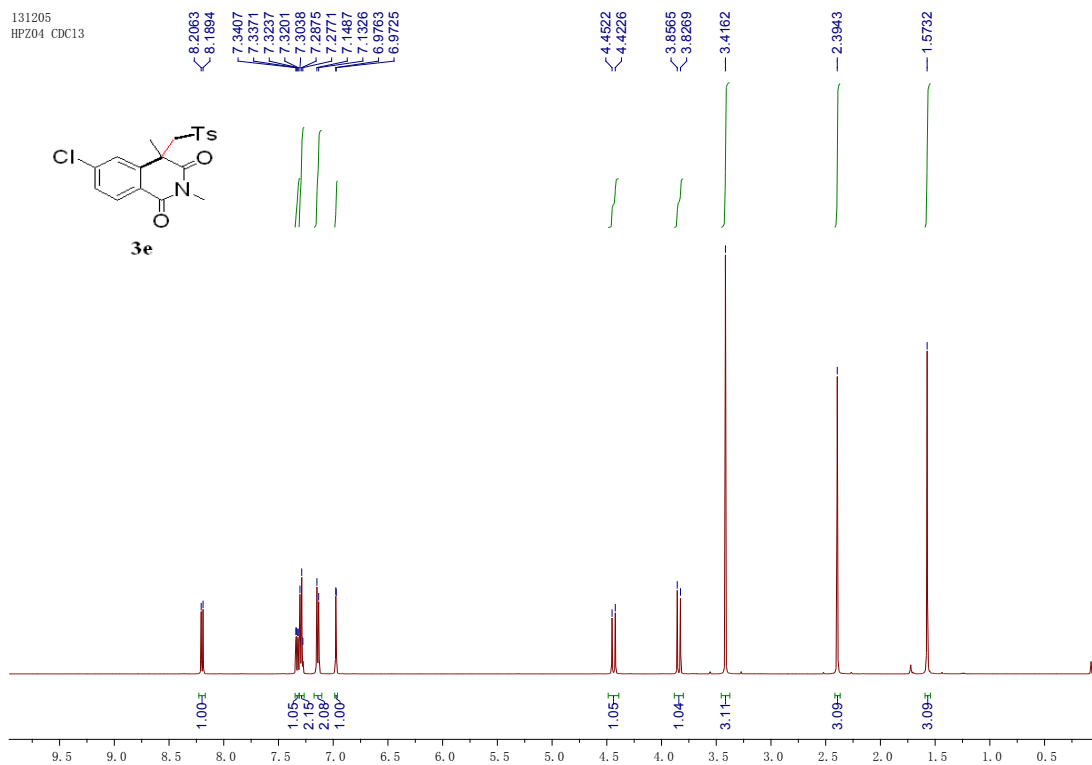
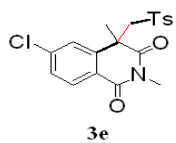
140526
HPZ17 CDC13



HPZ17-F19
HPZ17 CDC13 F19

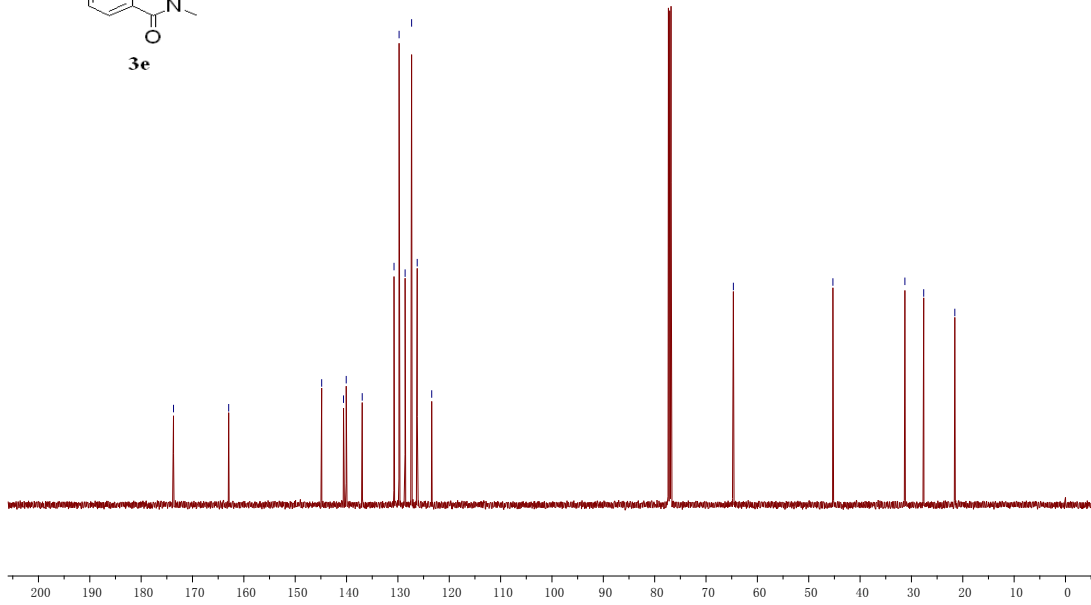
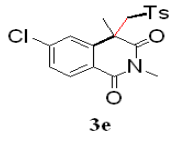


131205
HPZ04 CDC13



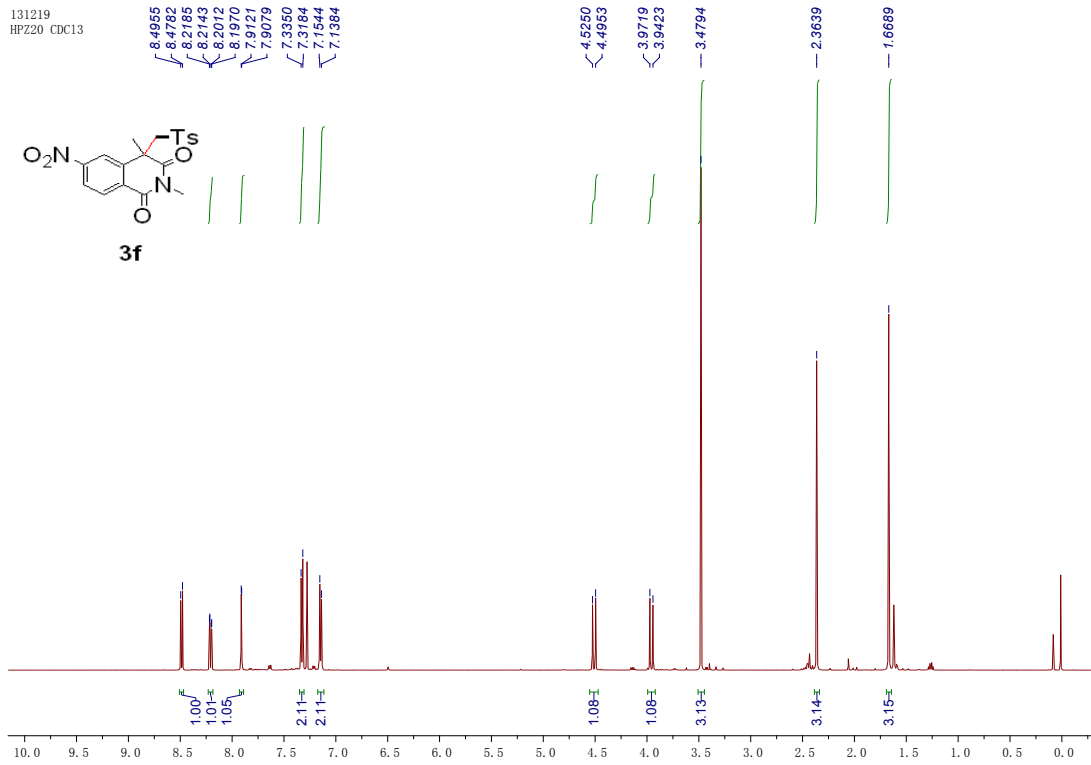
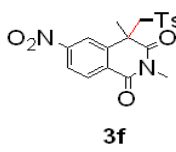
131205
HPZ04 CDC13

173.70
162.95
144.84
140.59
140.07
136.95
130.76
129.77
128.60
127.33
126.24
123.42

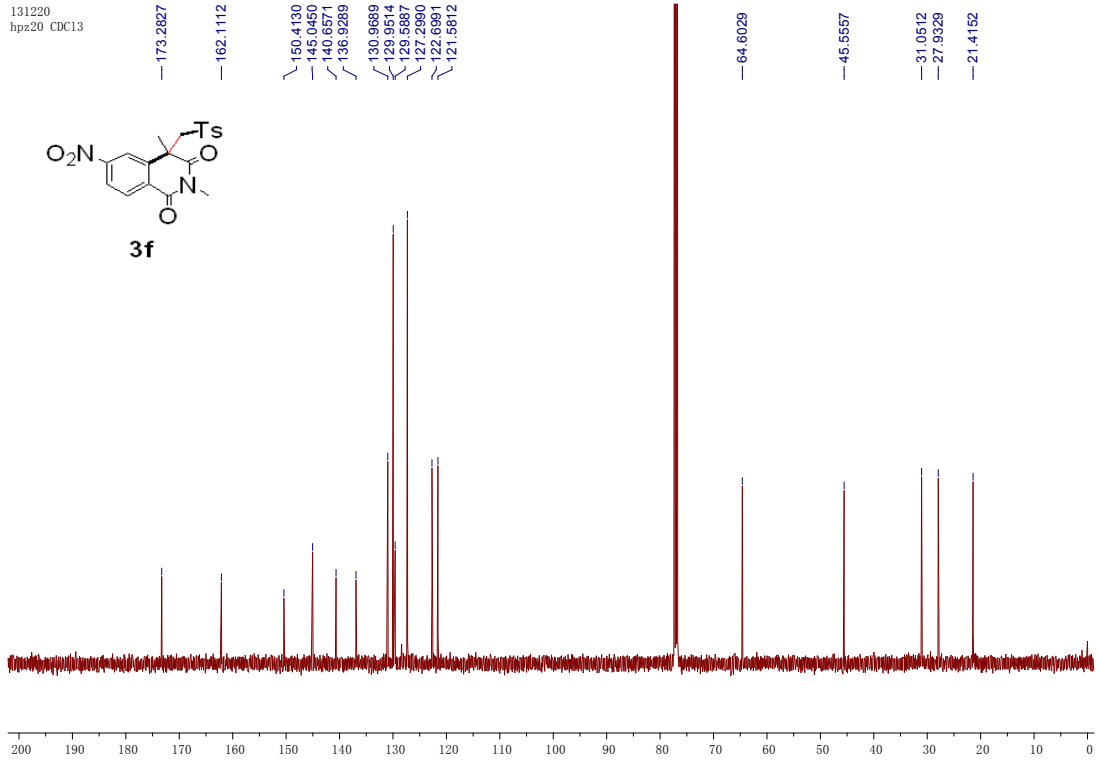


131219
HPZ20 CDC13

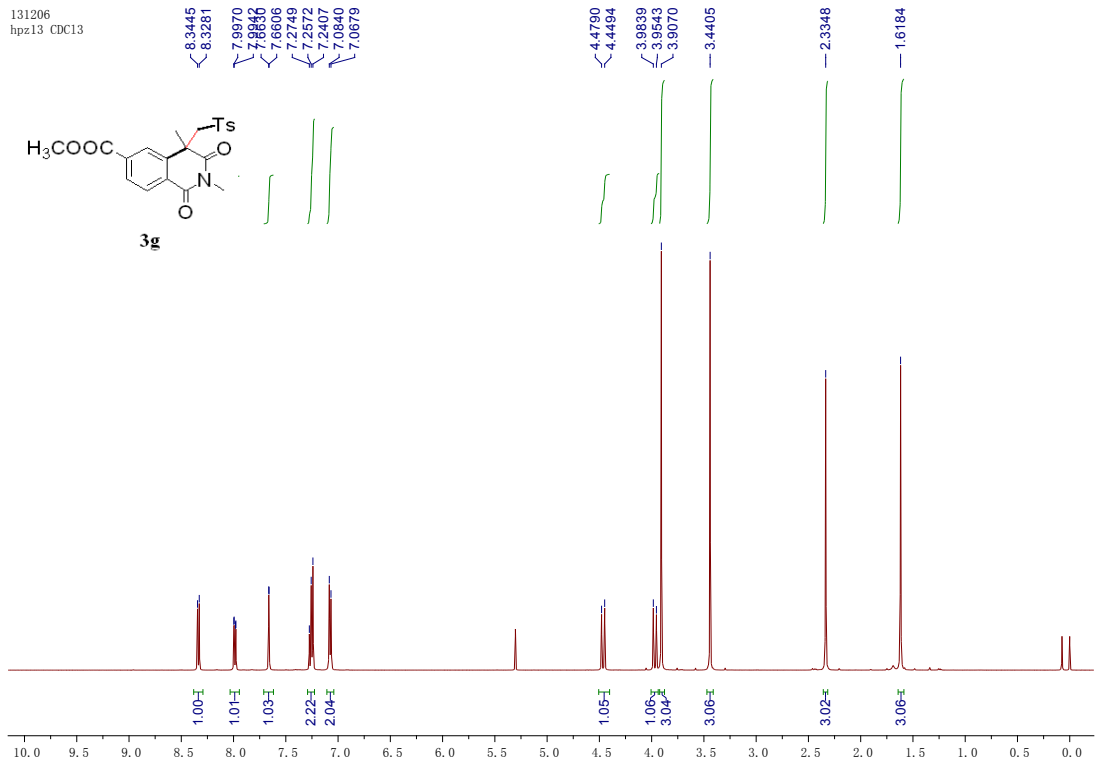
8.4955
8.4782
8.2185
8.2143
8.2012
8.1970
7.9121
7.9079
7.3350
7.3184
7.1544
7.1384



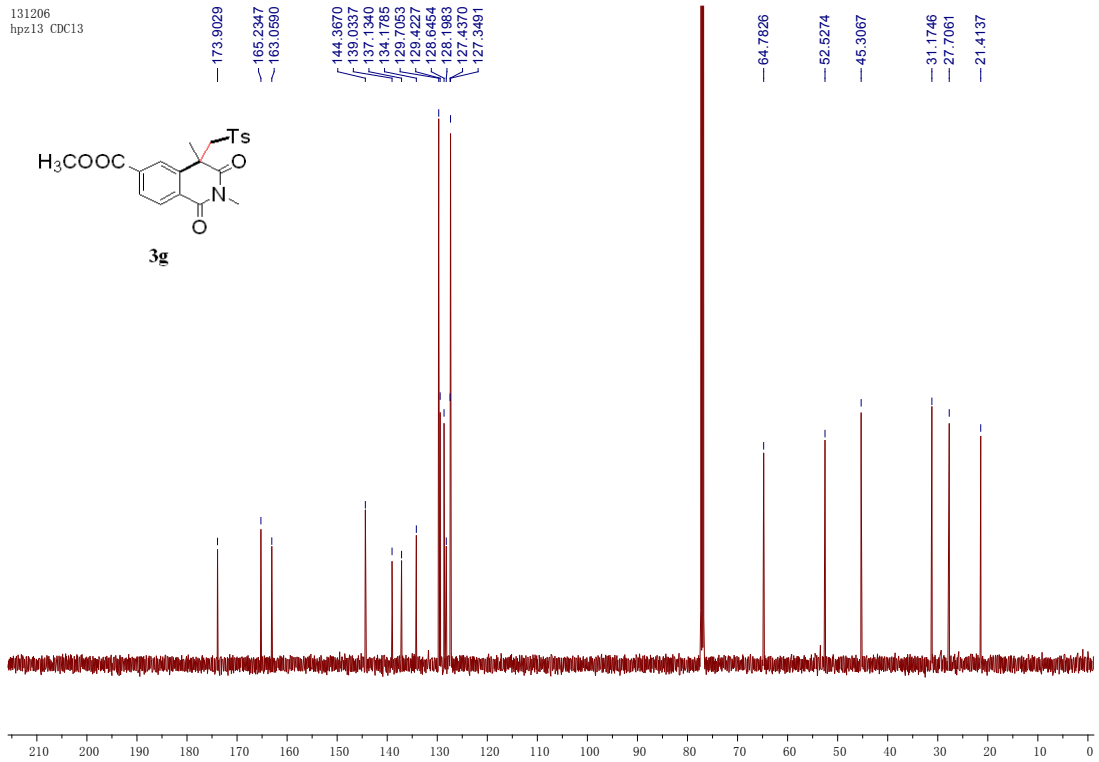
131220
hpz20 CDCl3



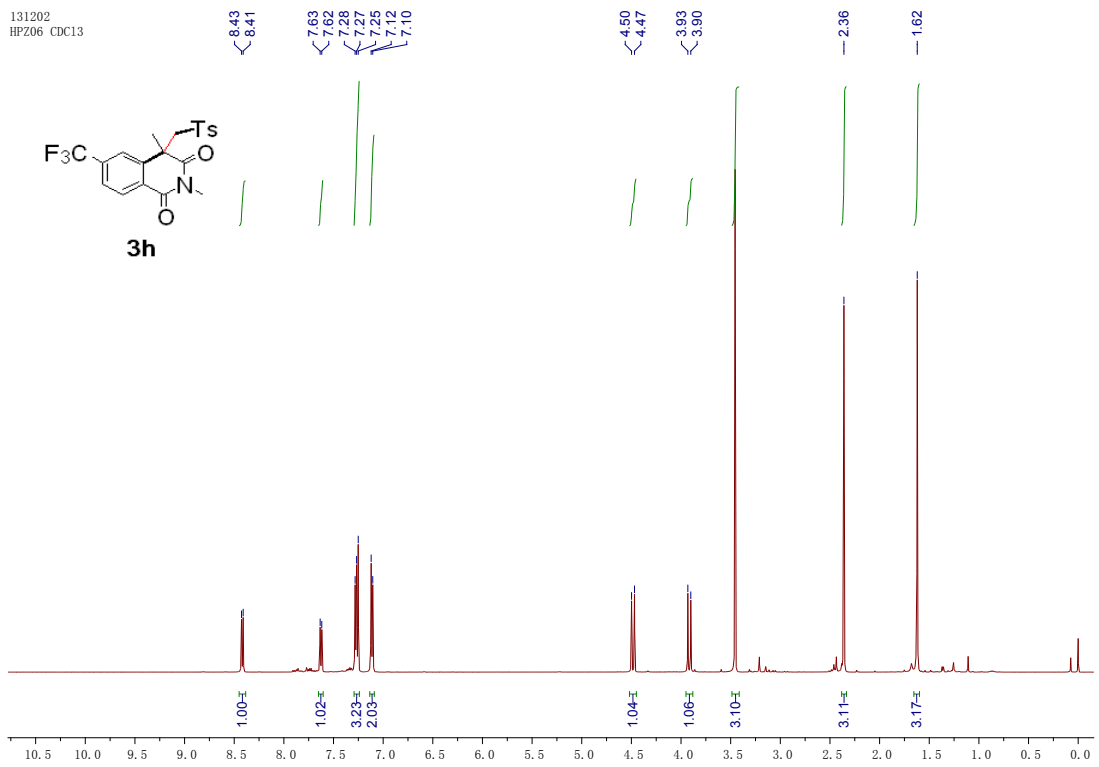
131206
hpz13 CDCl3



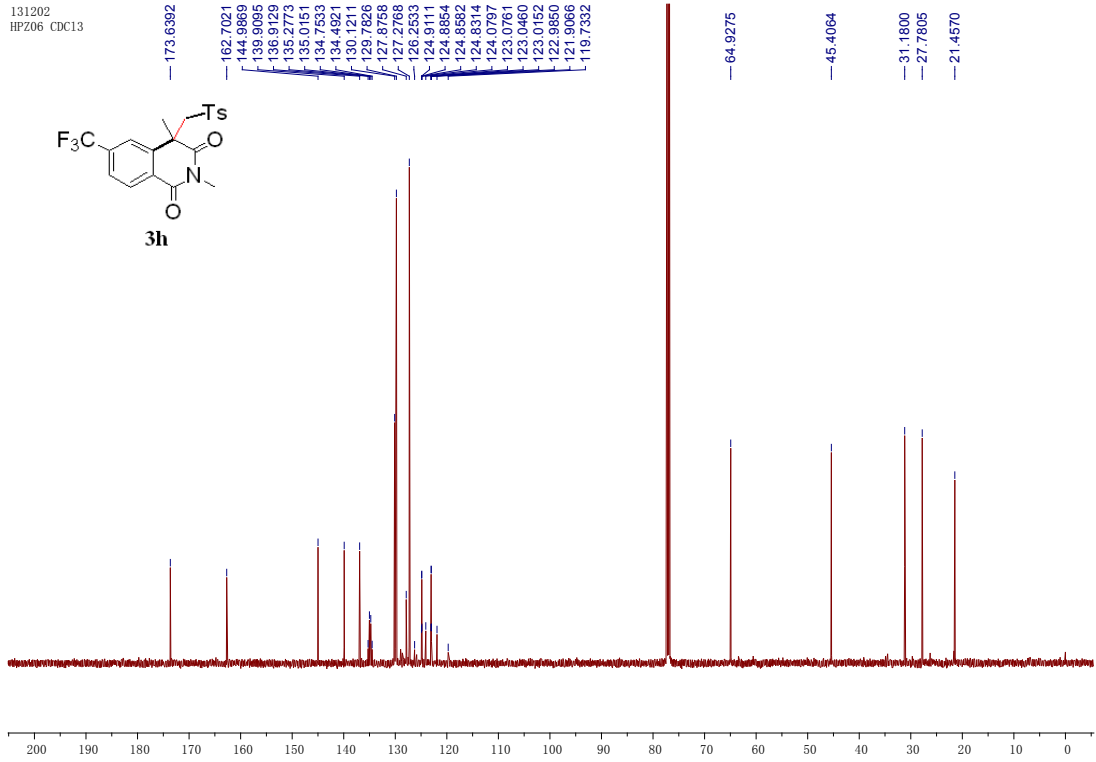
131206
hpz13 CDCl3



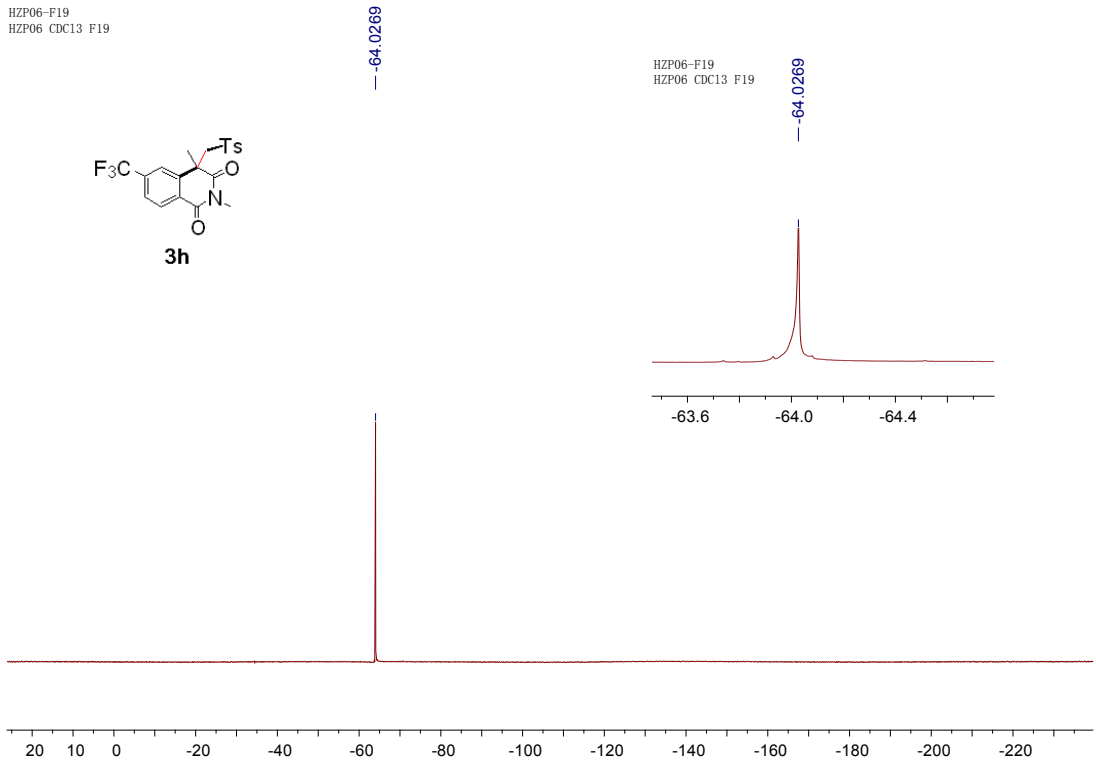
131202
HPZ06 CDCl3



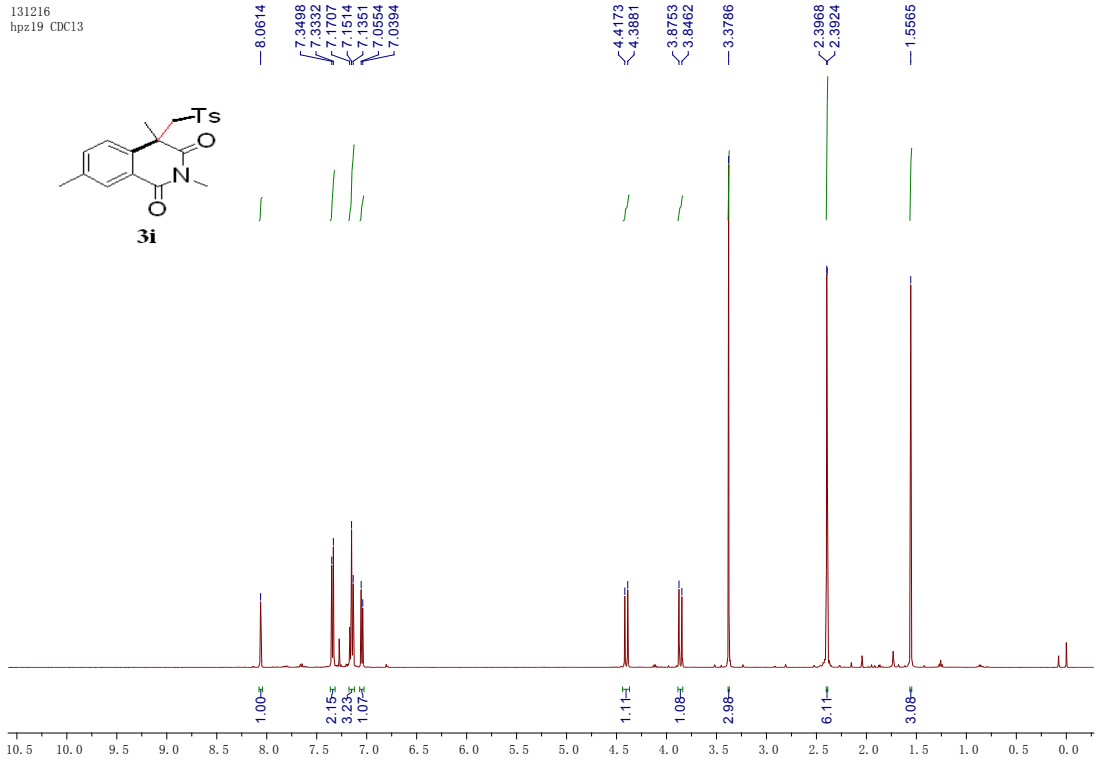
131202
HPZ06 CDC13



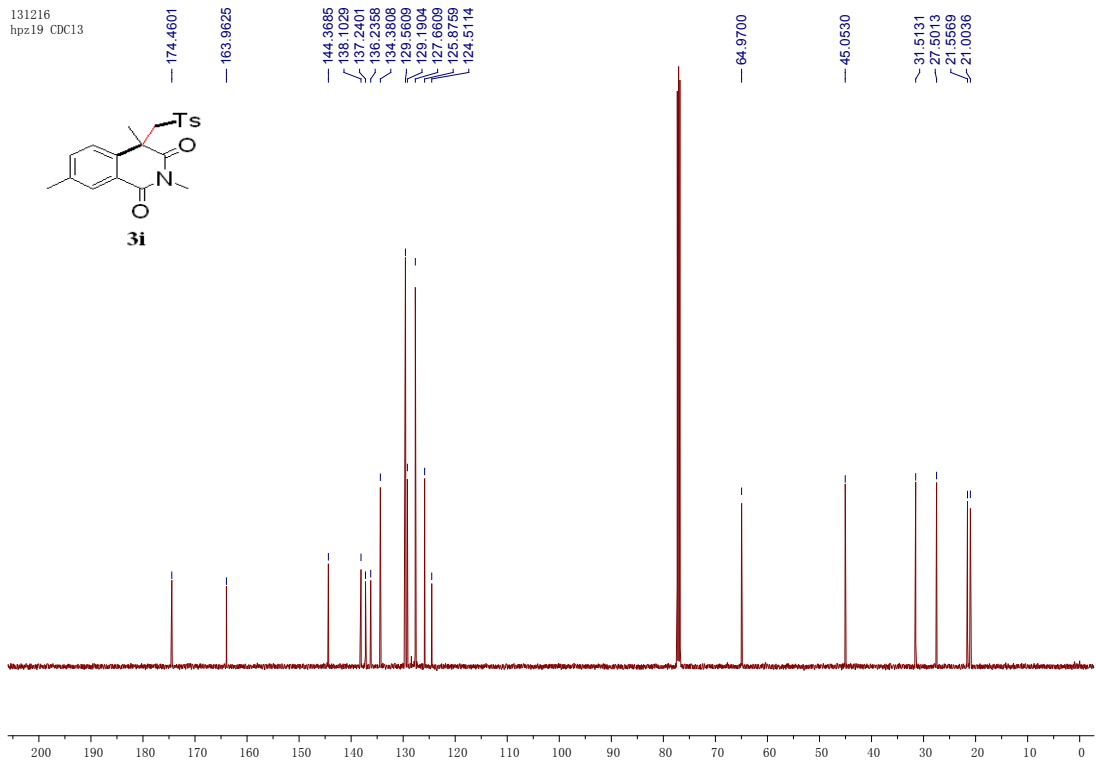
HZP06-F19
HZP06 CDC13 F19



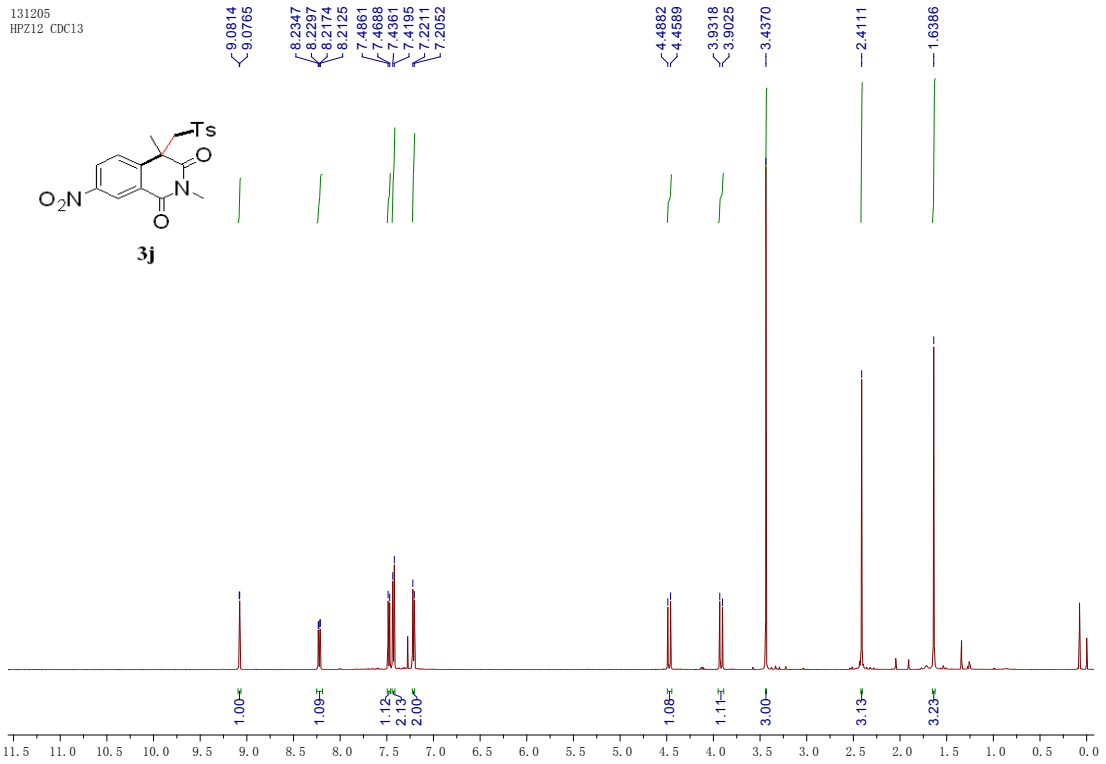
131216
hpz19 CDC13



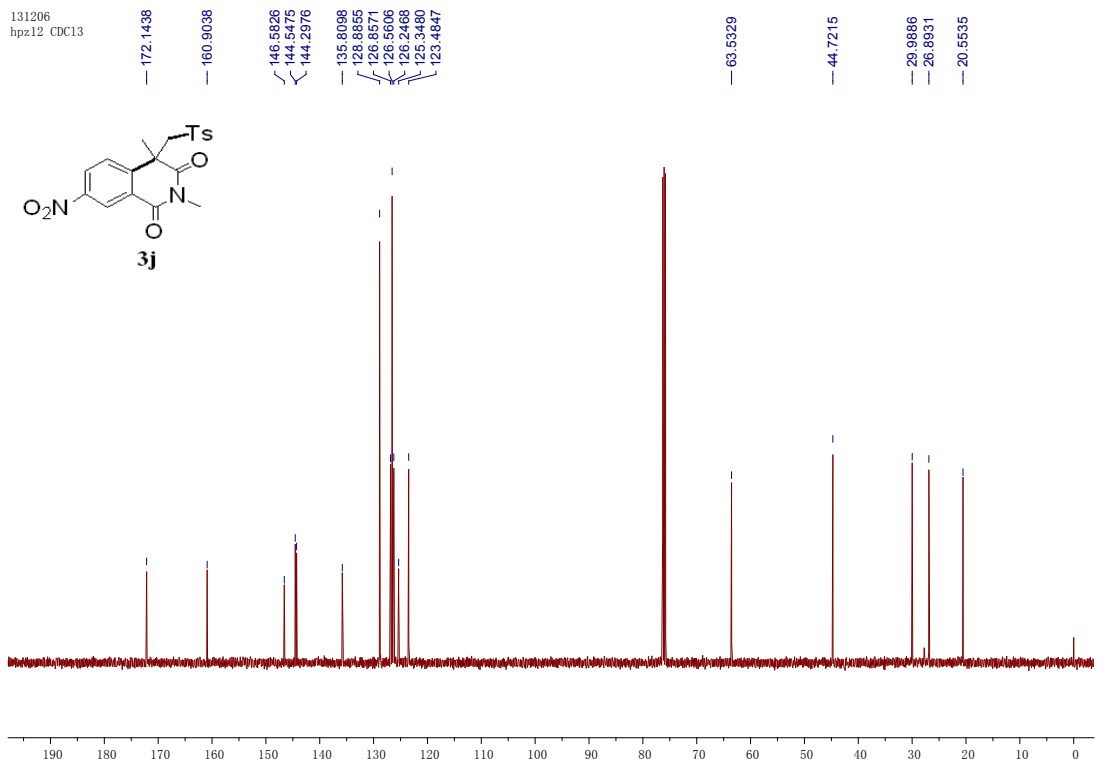
131216
hpz19 CDC13



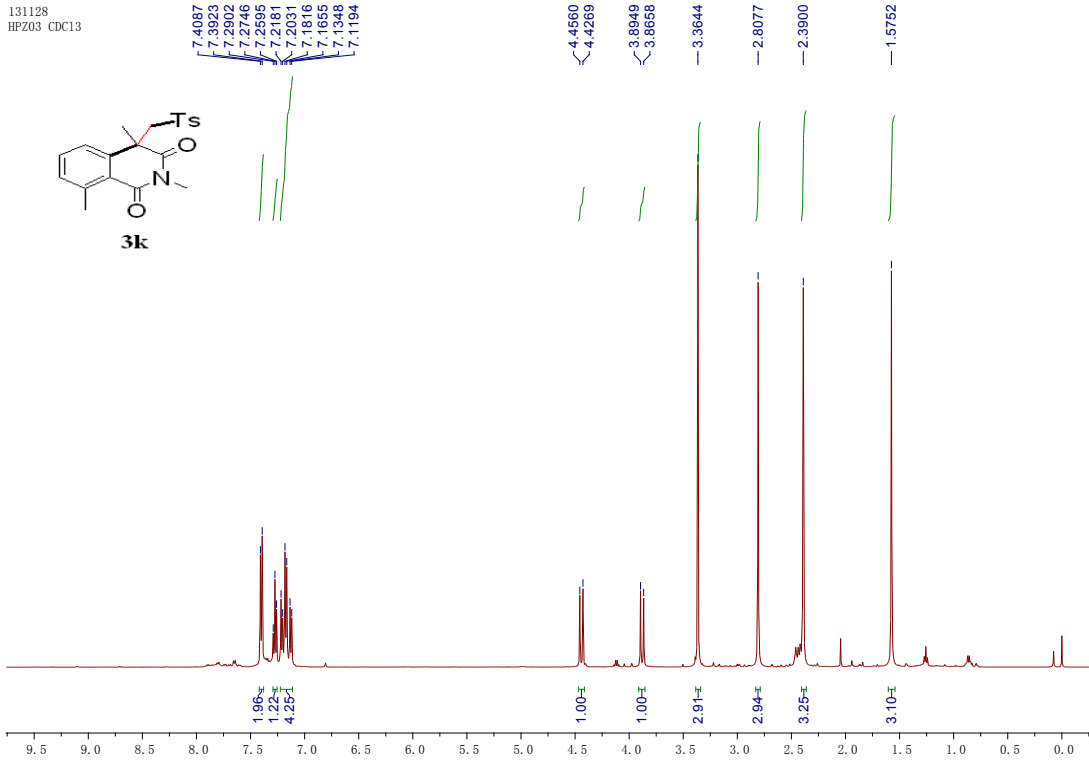
131205
HPZ12 CDC13



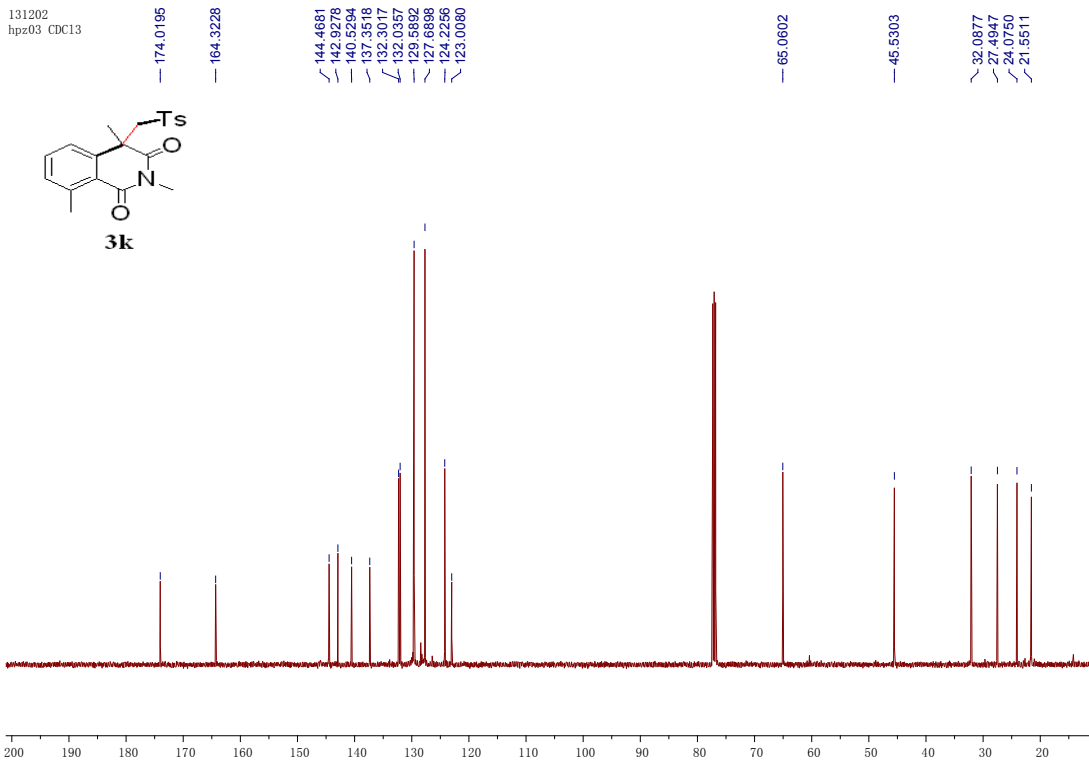
131206
hpz12 CDC13



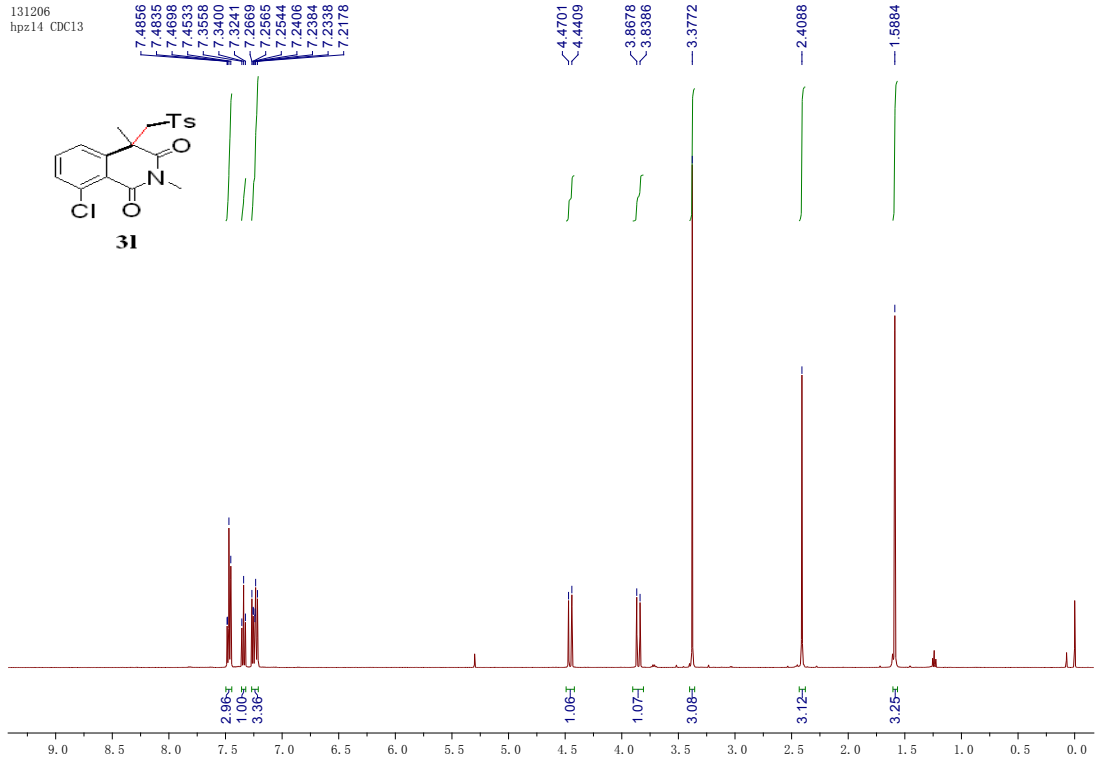
131128
HPZ03 CDC13



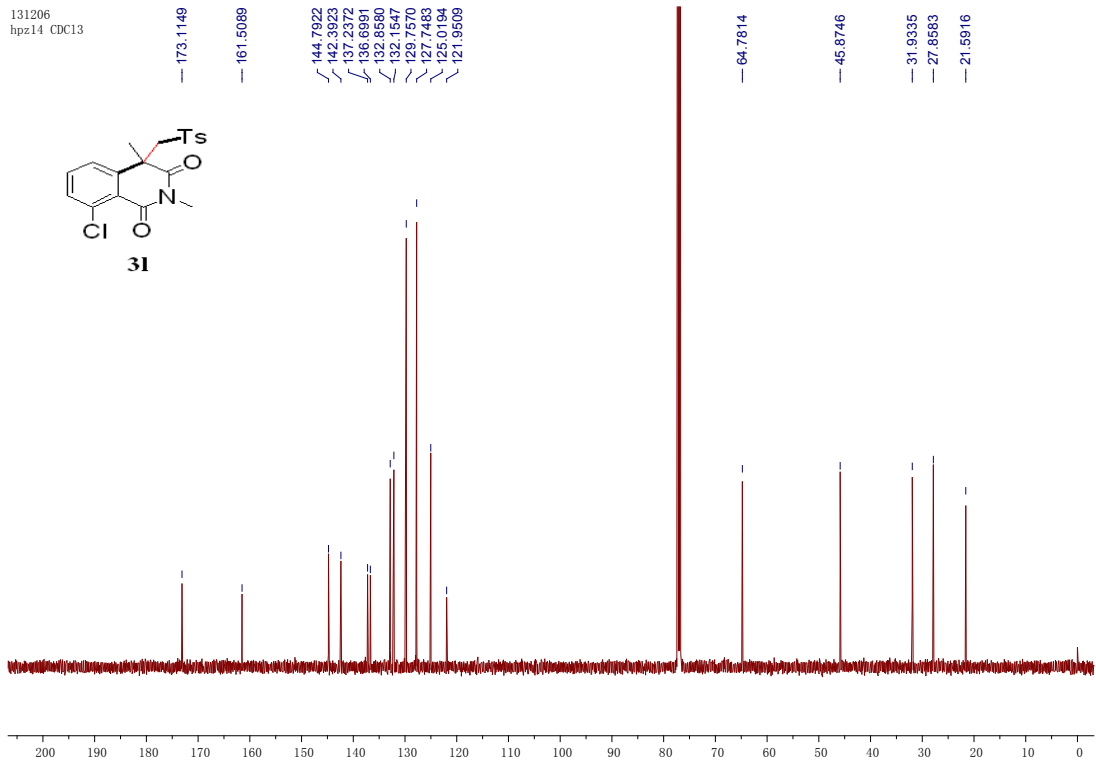
131202
hpz03 CDC13



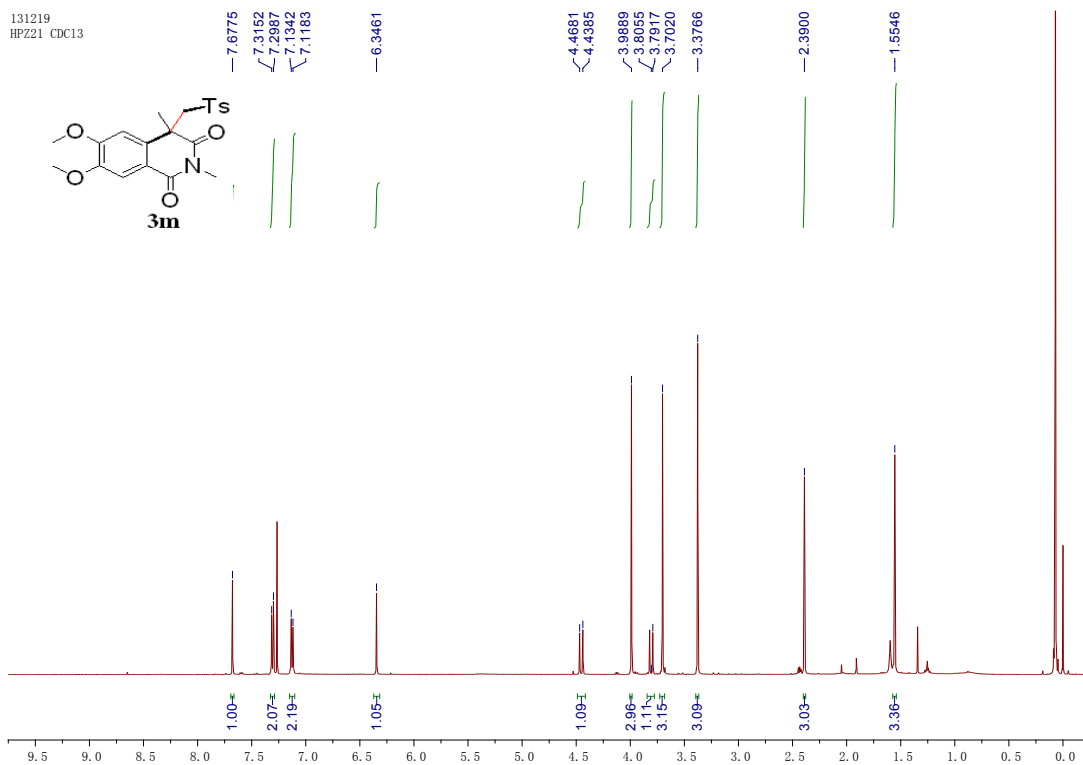
131206
hpz14 CDC13



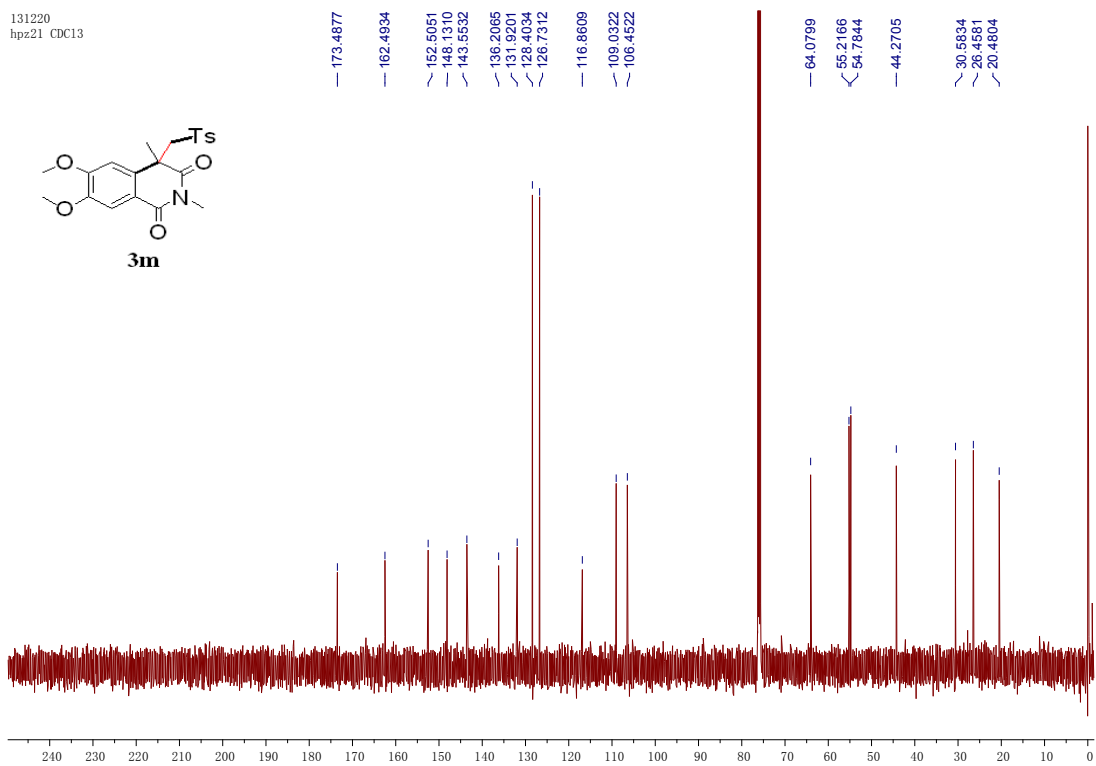
131206
hpz14 CDC13



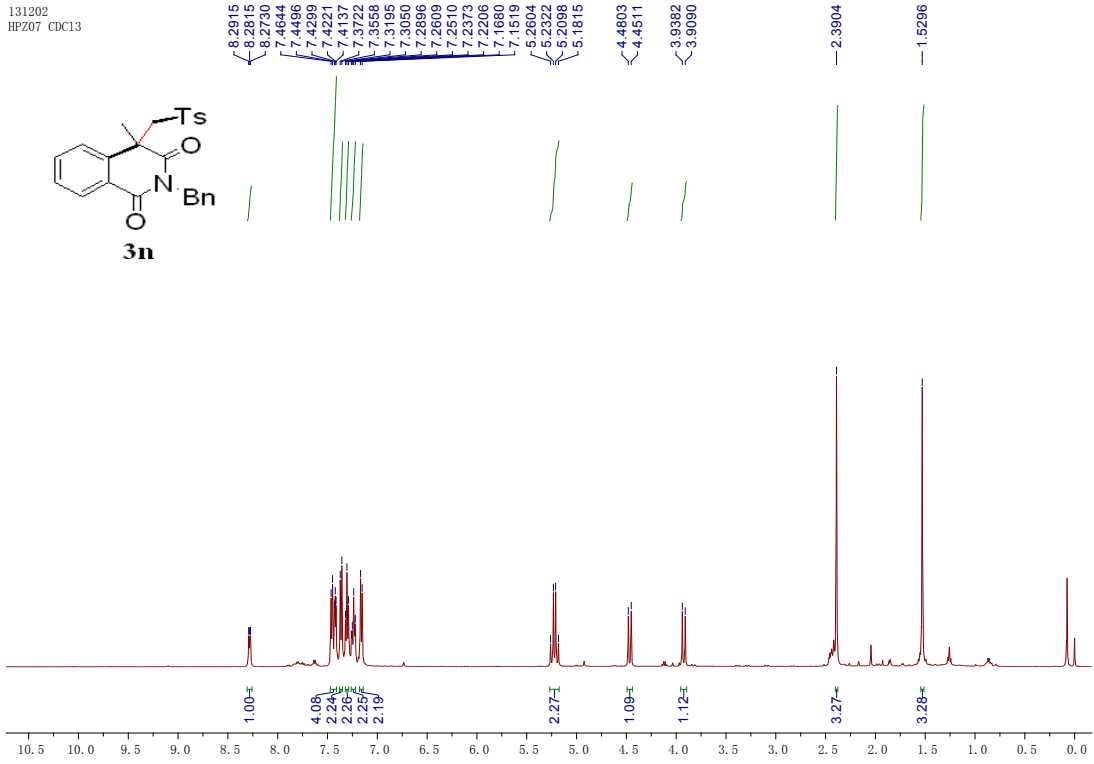
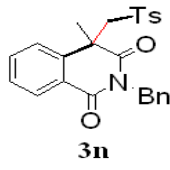
131219
HPZ21 CDCl3



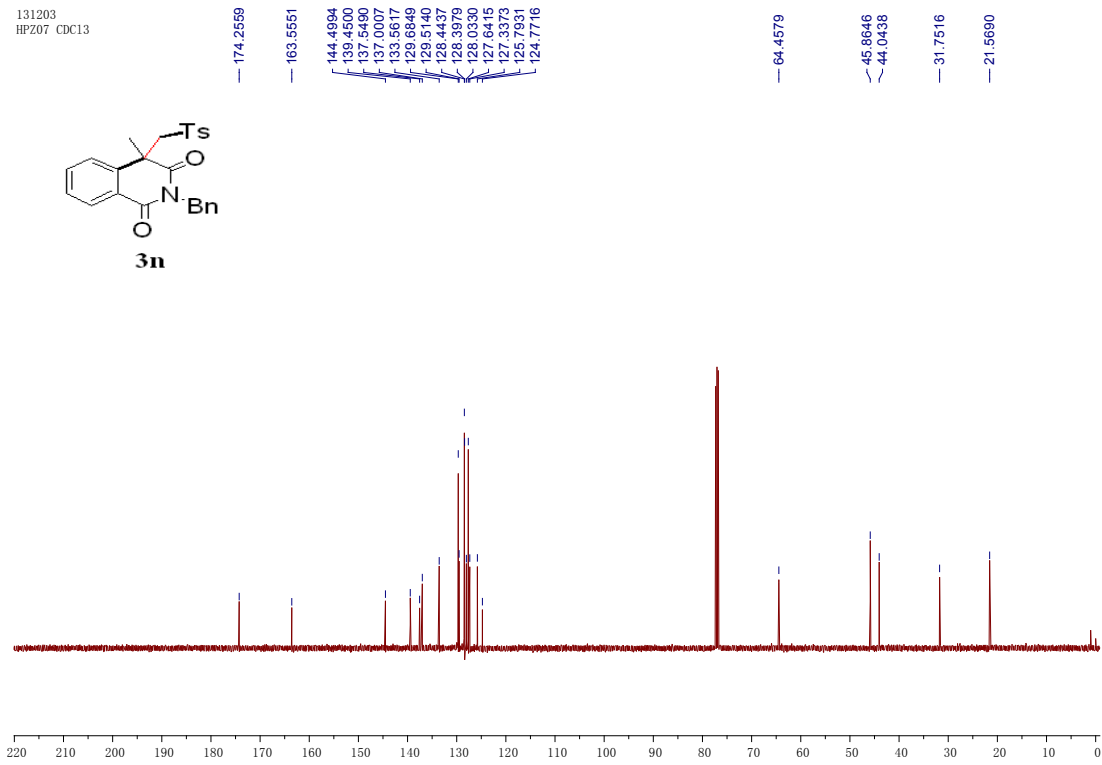
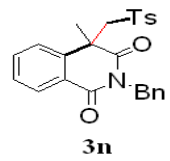
131220
hpz21 CDCl3



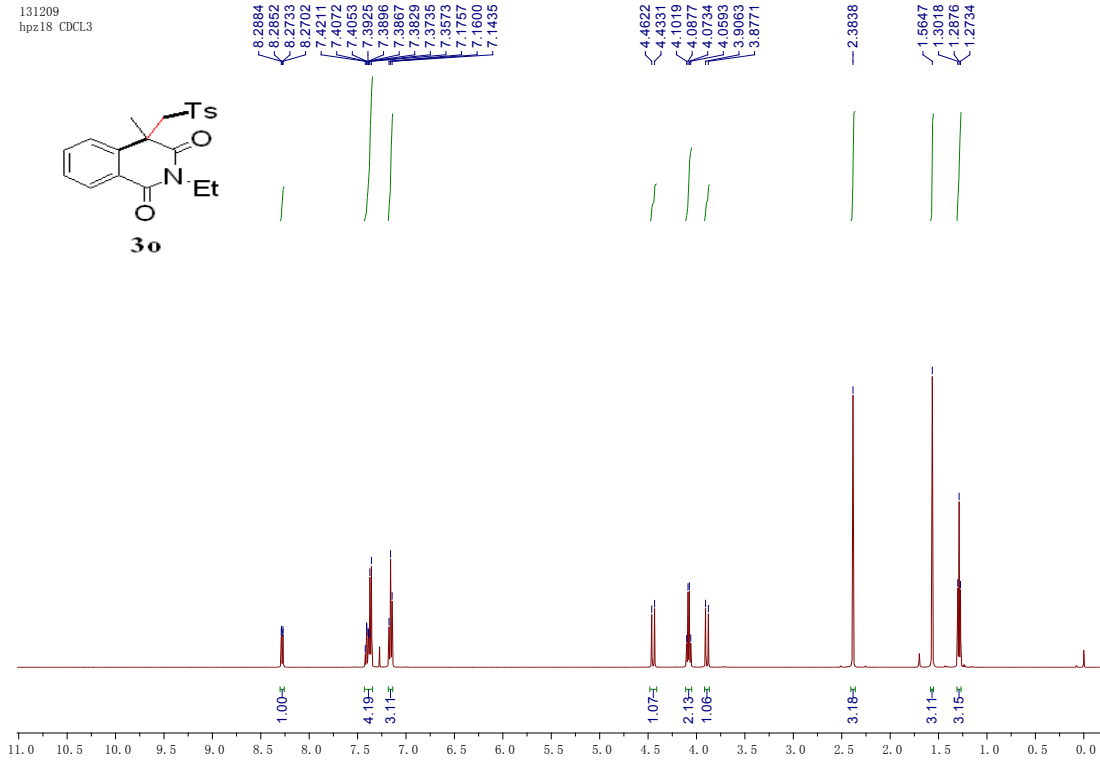
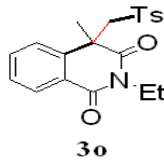
131202
HPZ07 CDC13



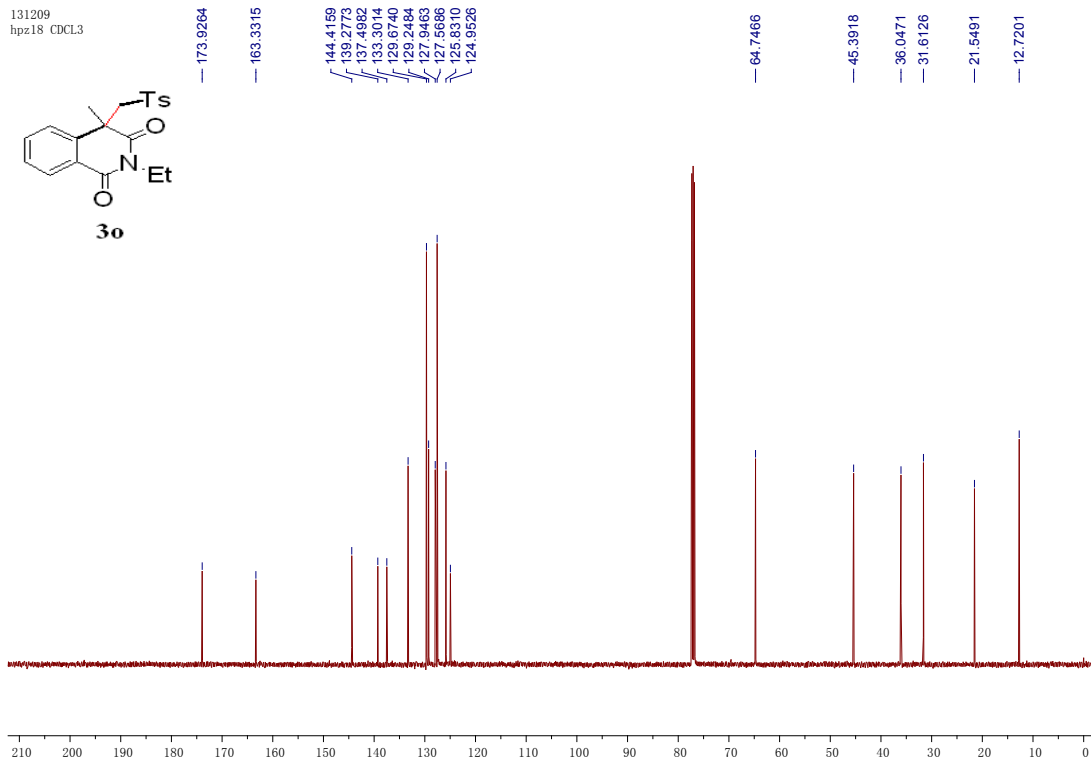
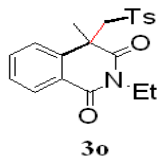
131203
HPZ07 CDC13



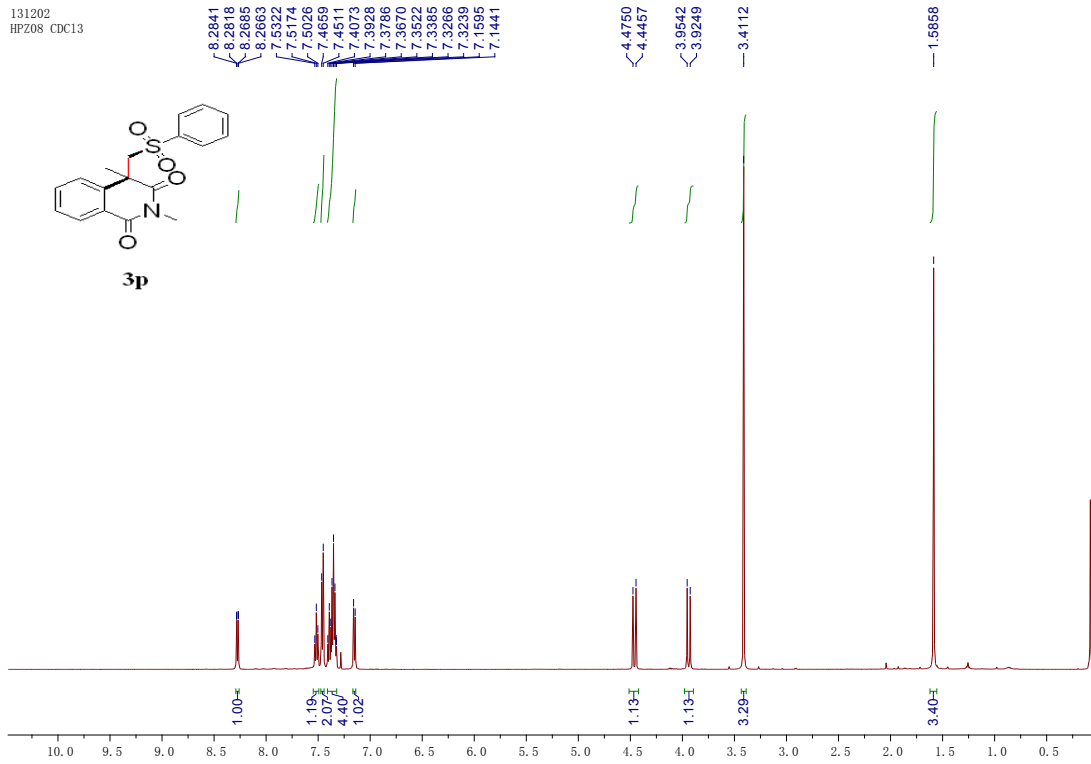
131209
hpz18 CDCL3



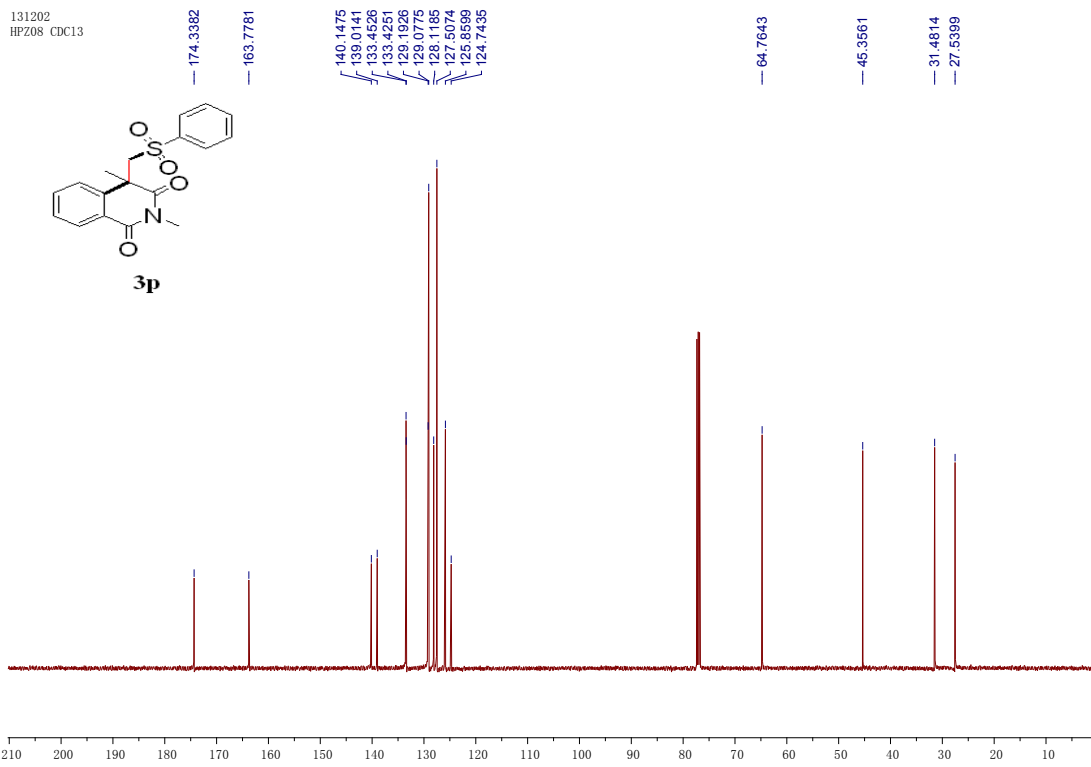
131209
hpz18 CDCL3



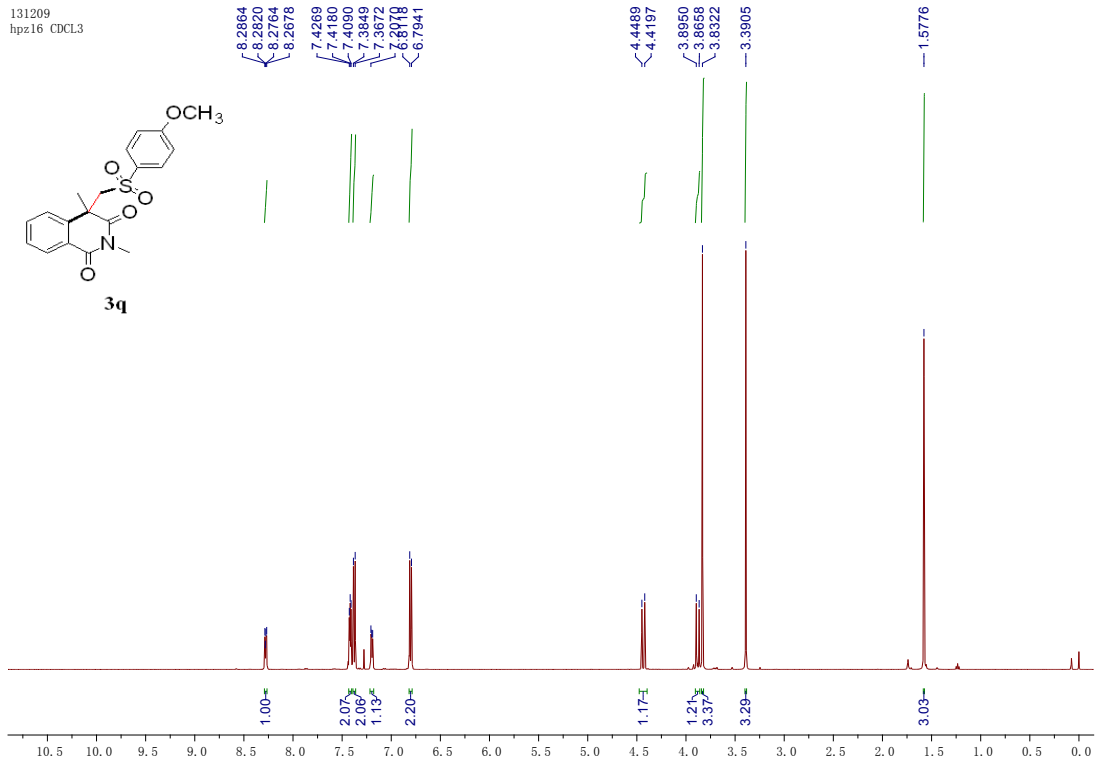
131202
HPZ08 CDC13



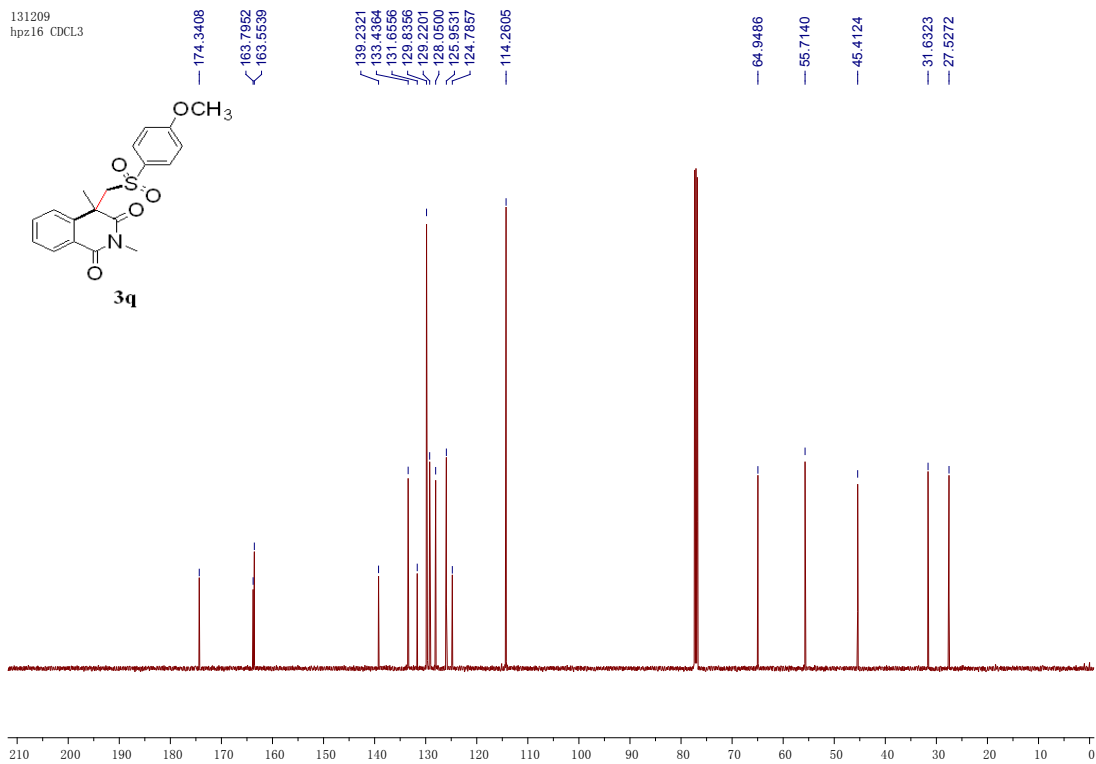
131202
HPZ08 CDC13



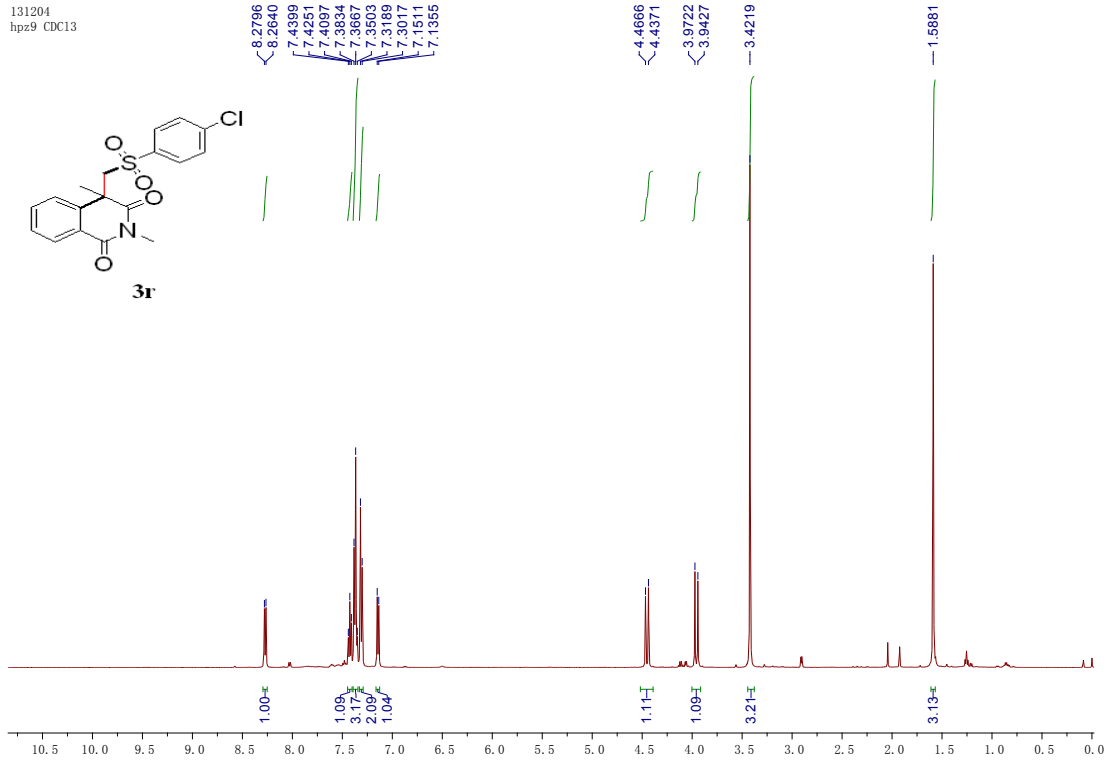
131209
hpz16 CDCL3



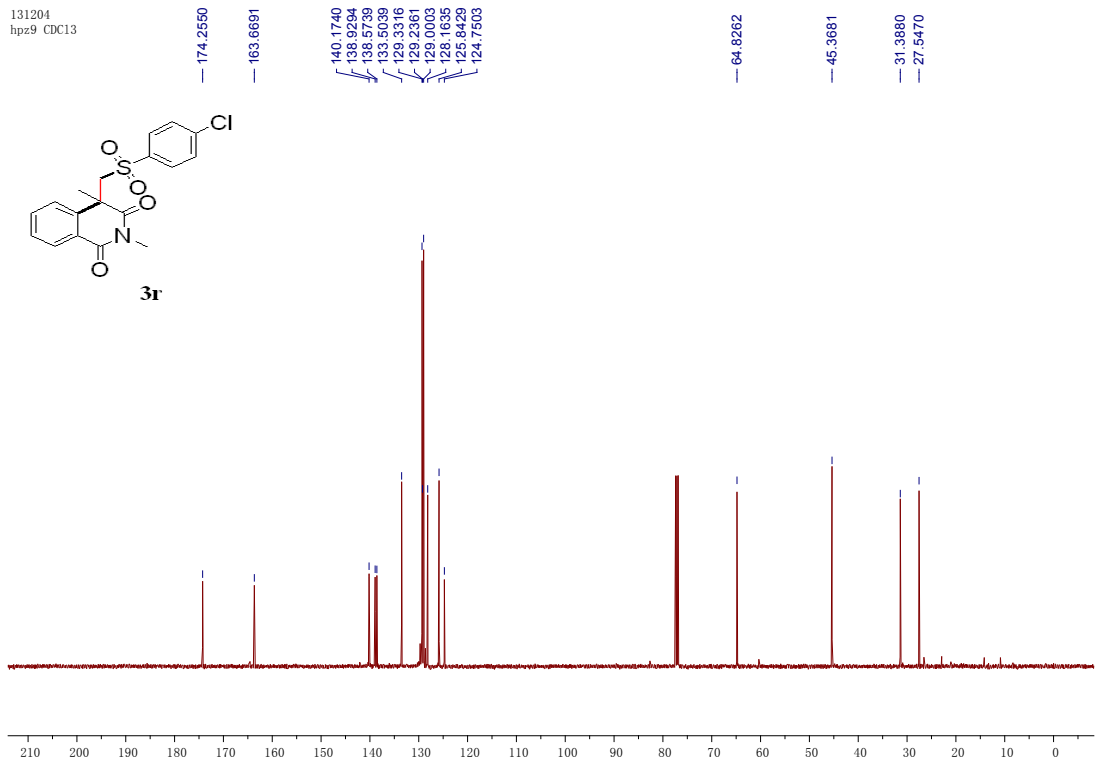
131209
hpz16 CDCL3



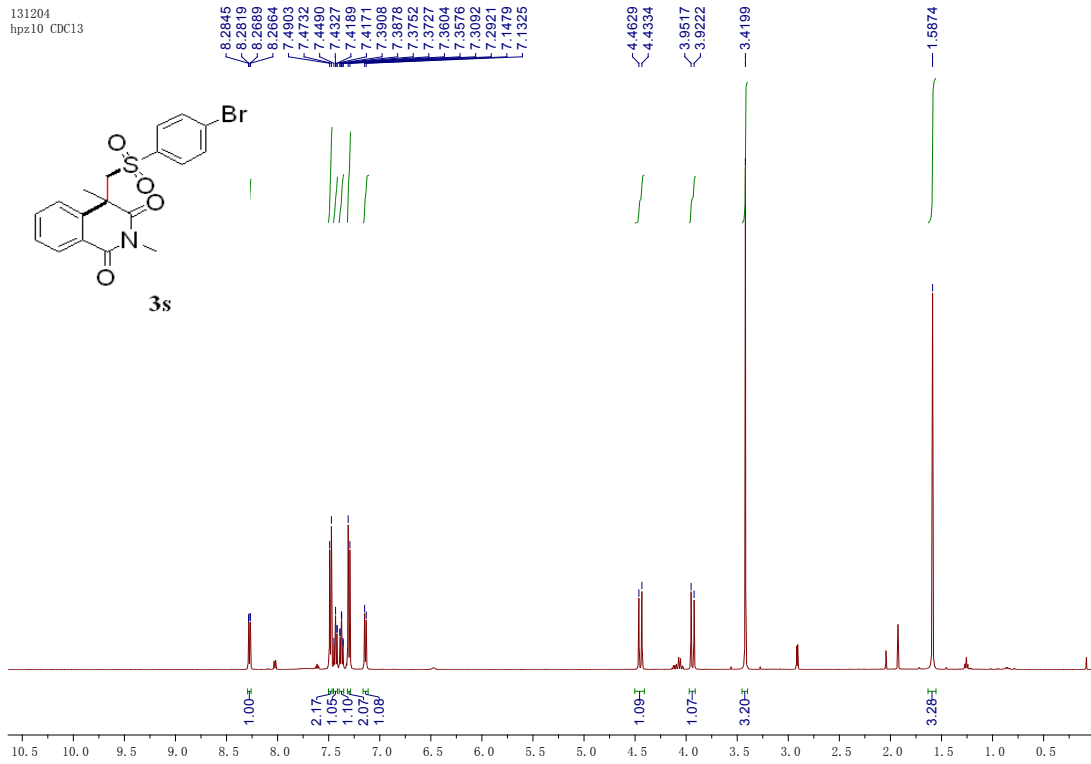
131204
hpz9 CDC13



131204
hpz9 CDC13



131204
hpz10 CDC13



131204
hpz10 CDC13

