

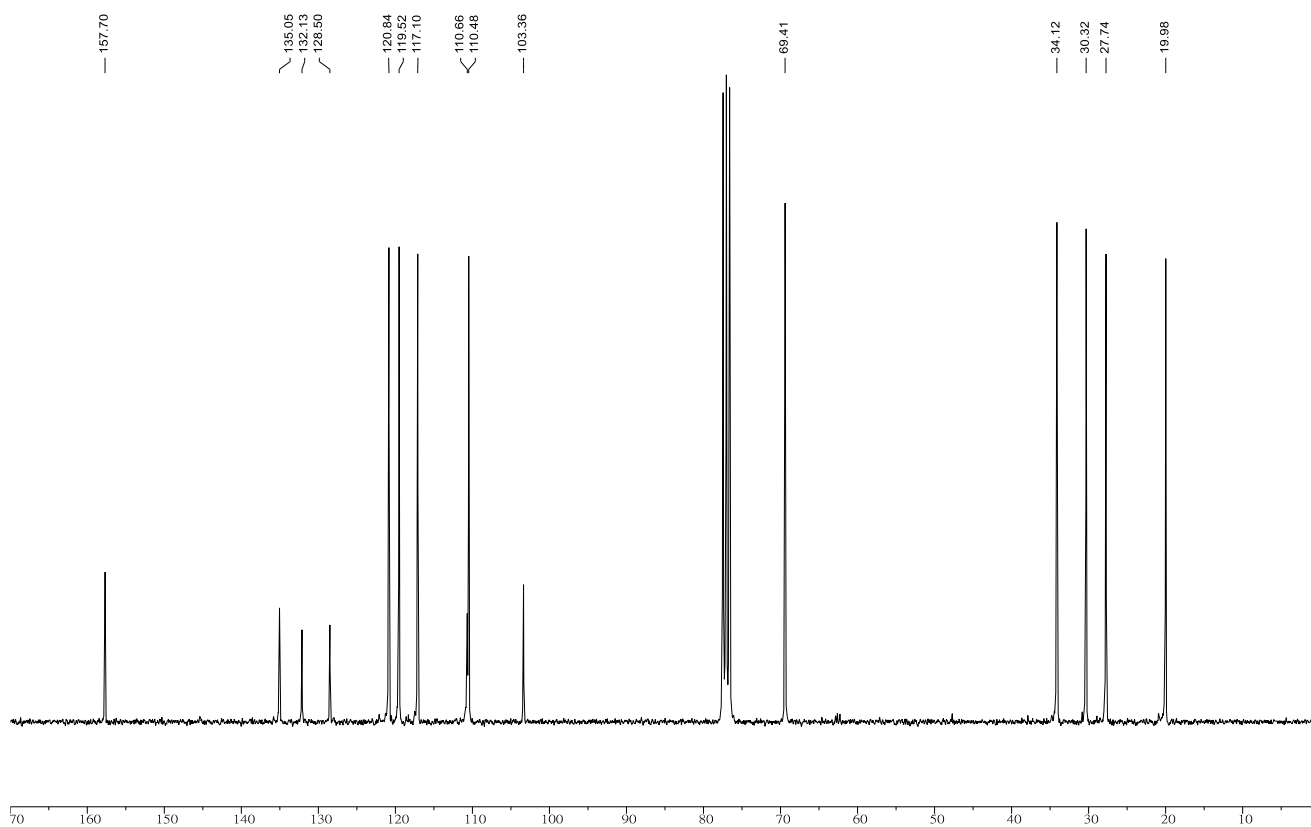
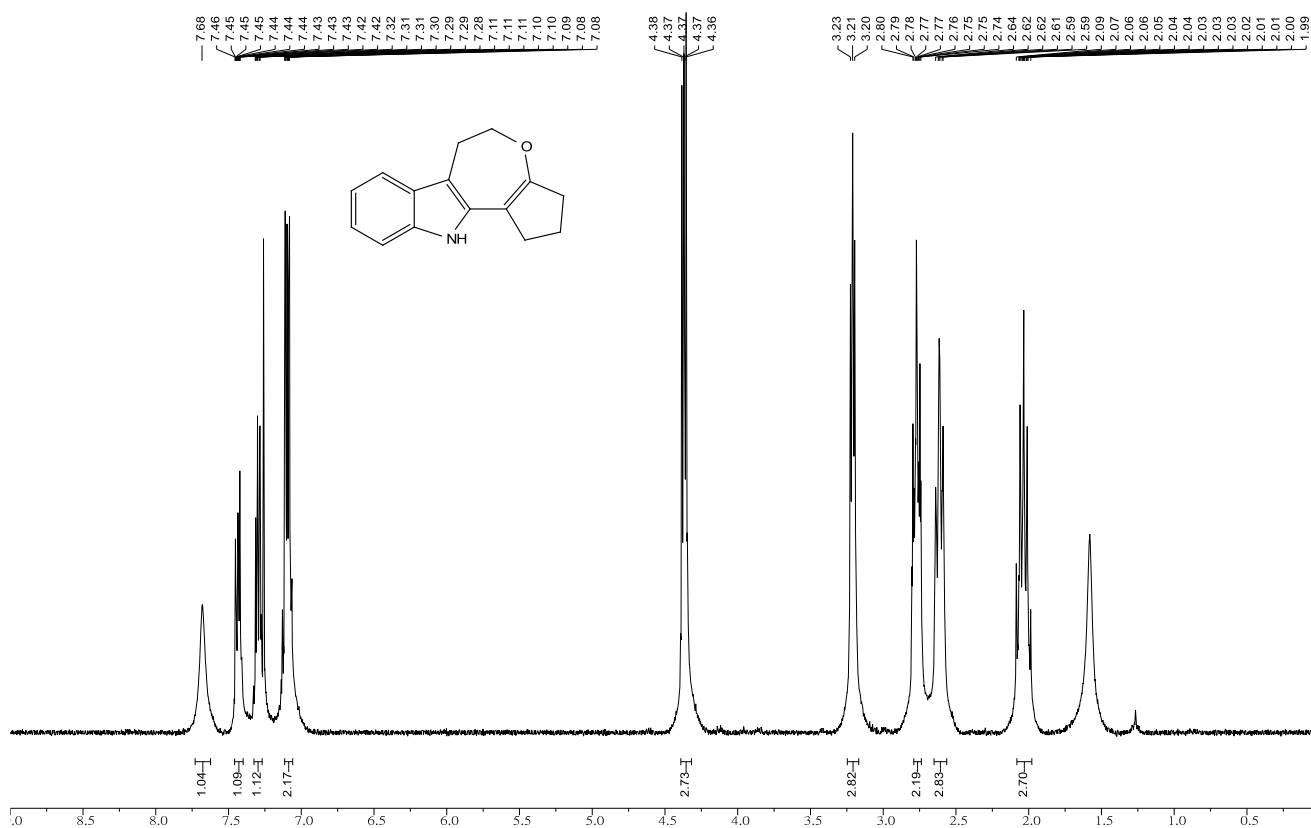
^1H and ^{13}C NMR Spectra of the Synthesized Compounds

9, 10, 13, 11, and 6a–e

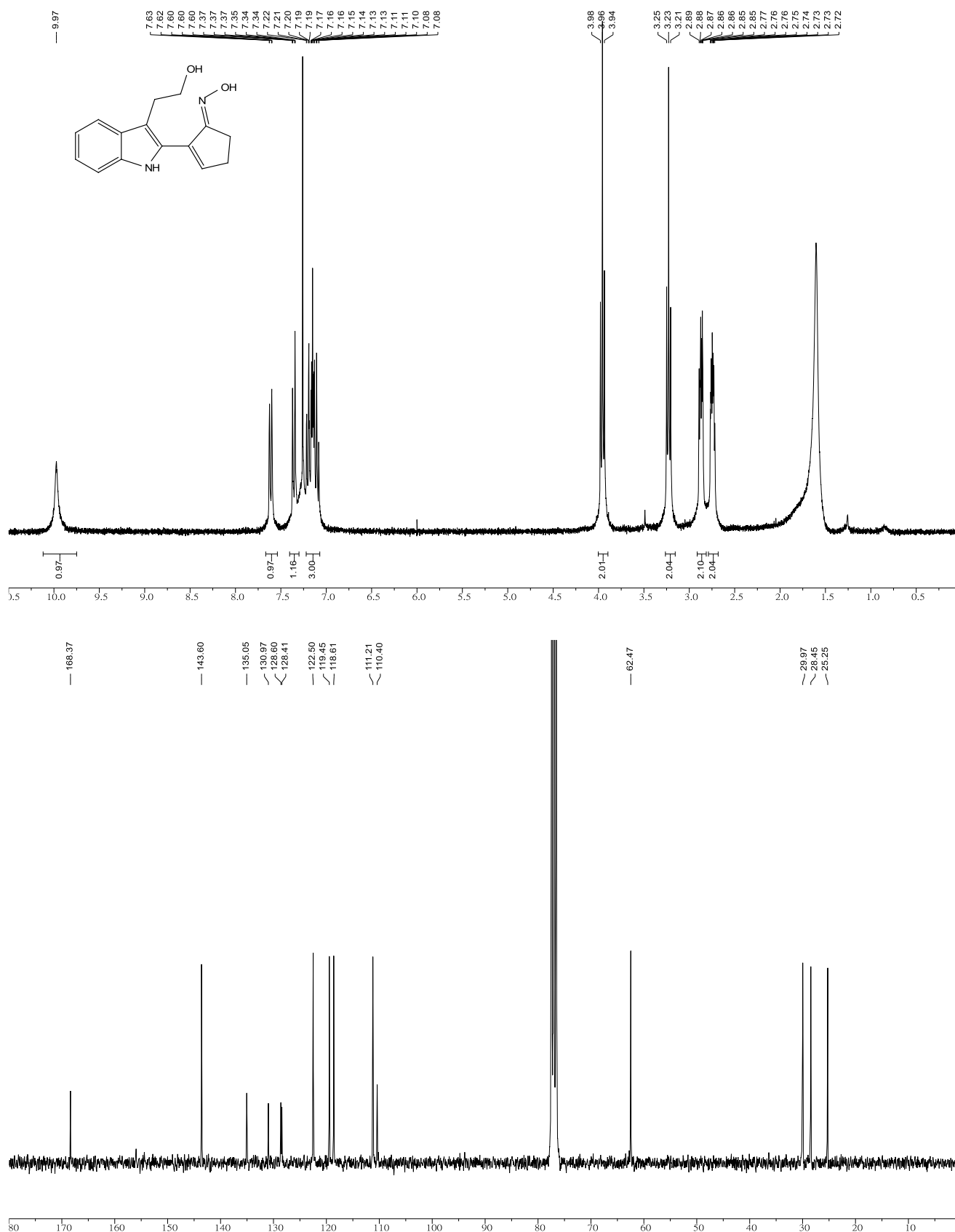
Instrumental section

Proton (300 MHz) and carbon-13 (75 MHz) NMR spectra were recorded on a Varian Mercury-300 spectrometer at room temperature using CDCl_3 as the solvent. Proton chemical shifts are referenced to the residual CHCl_3 (δ 7.26 ppm) in CDCl_3 . Carbon-13 chemical shifts are referenced to the center of the CDCl_3 triplet (δ 77.0 ppm). Multiplicities are abbreviated as follows: s, singlet; d, doublet; t, triplet; q, quartet; m, multiplet; J , coupling constant (hertz).

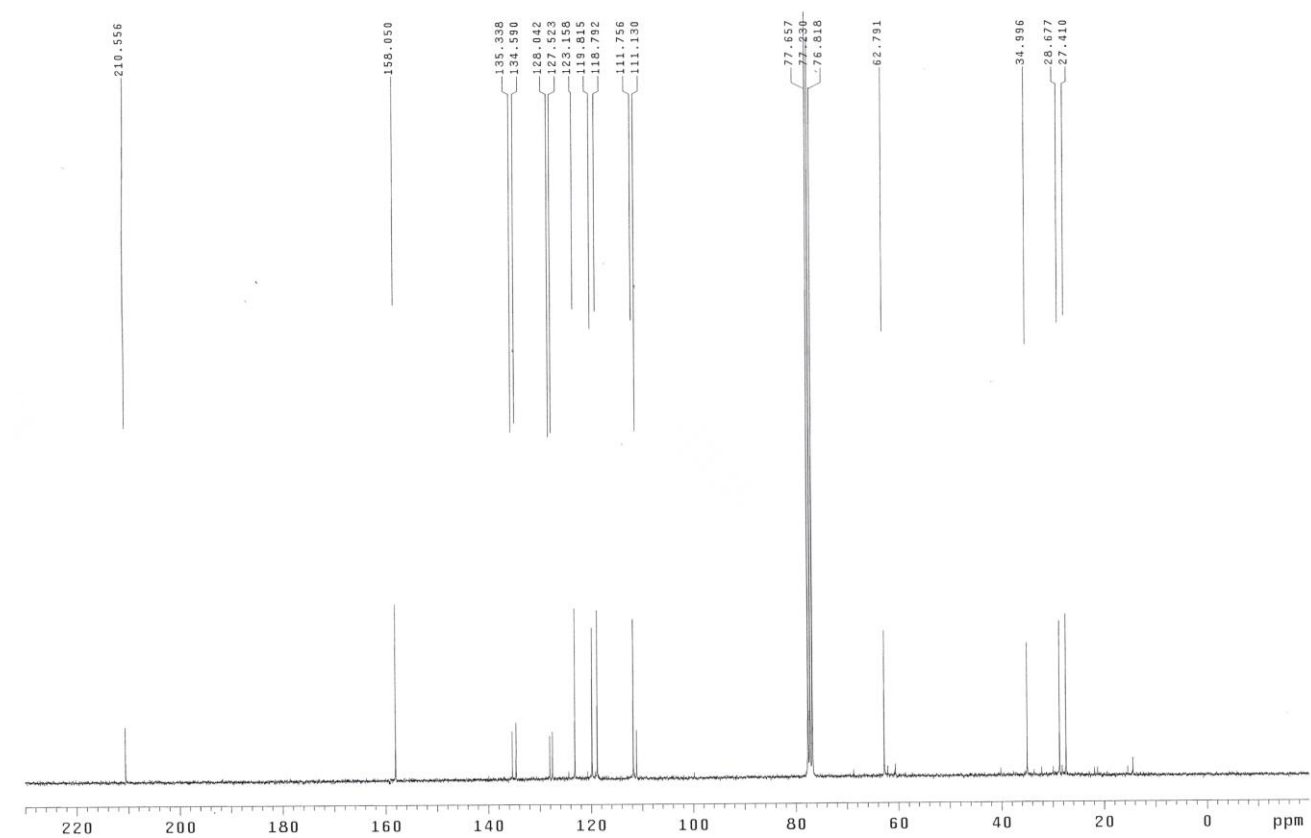
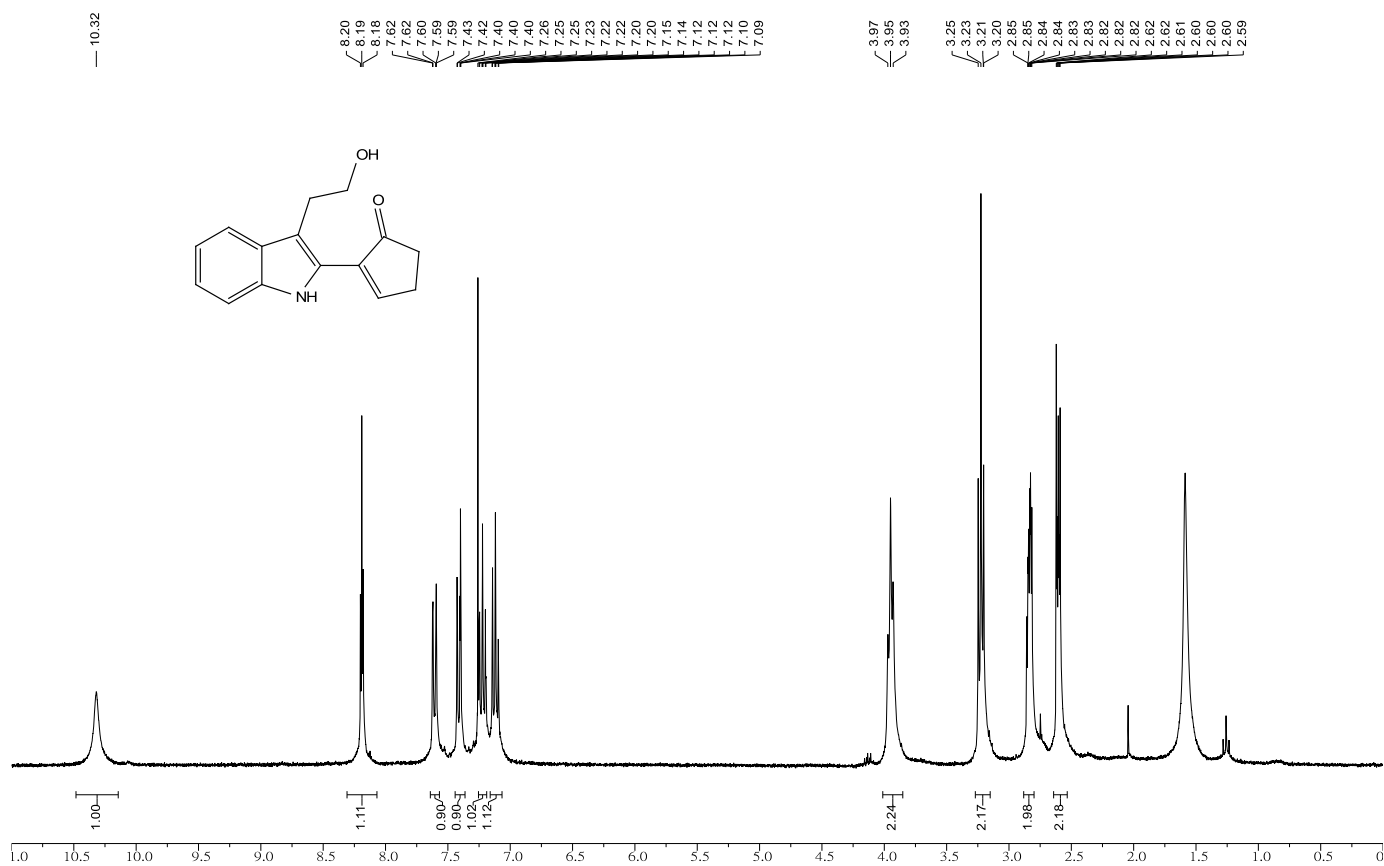
1,2,3,5,6,11-Hexahydrocyclopenta[2,3]oxepino[4,5-*b*]indole (9)



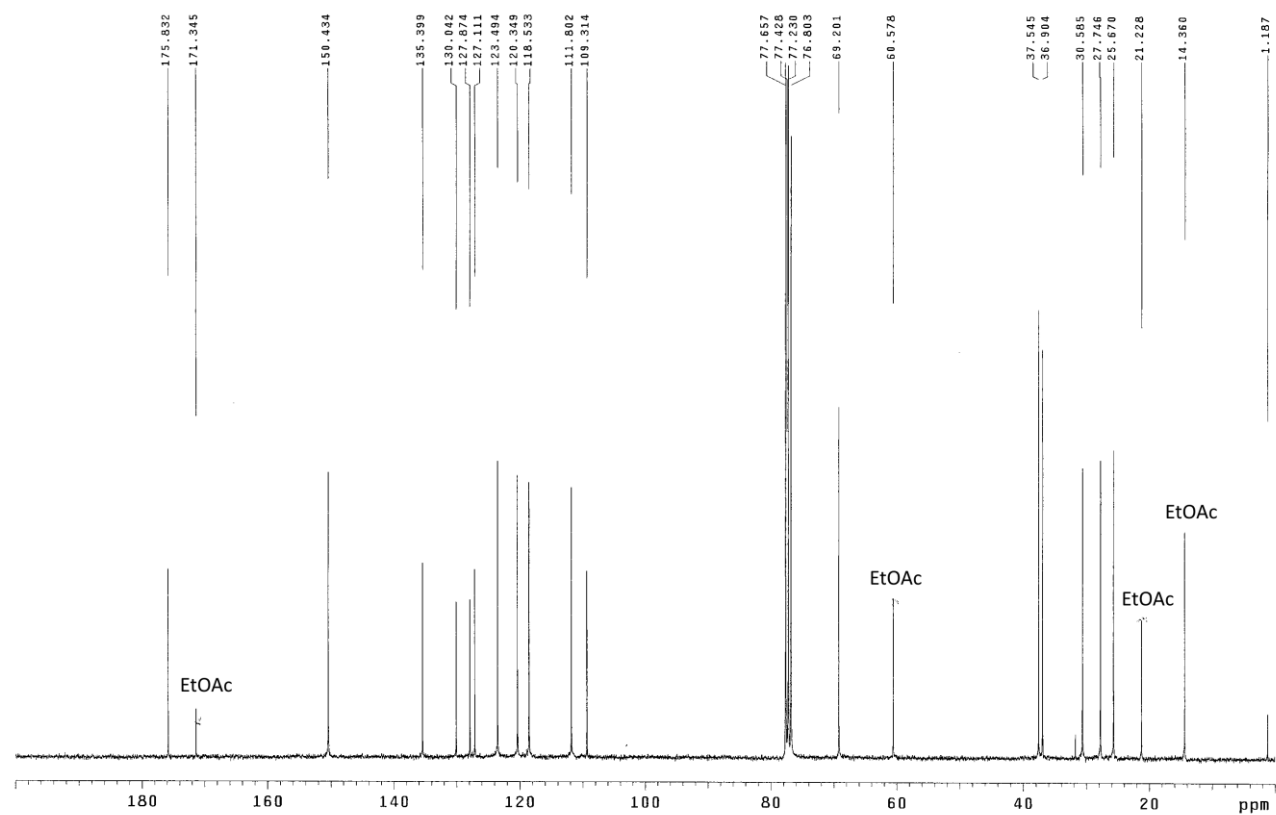
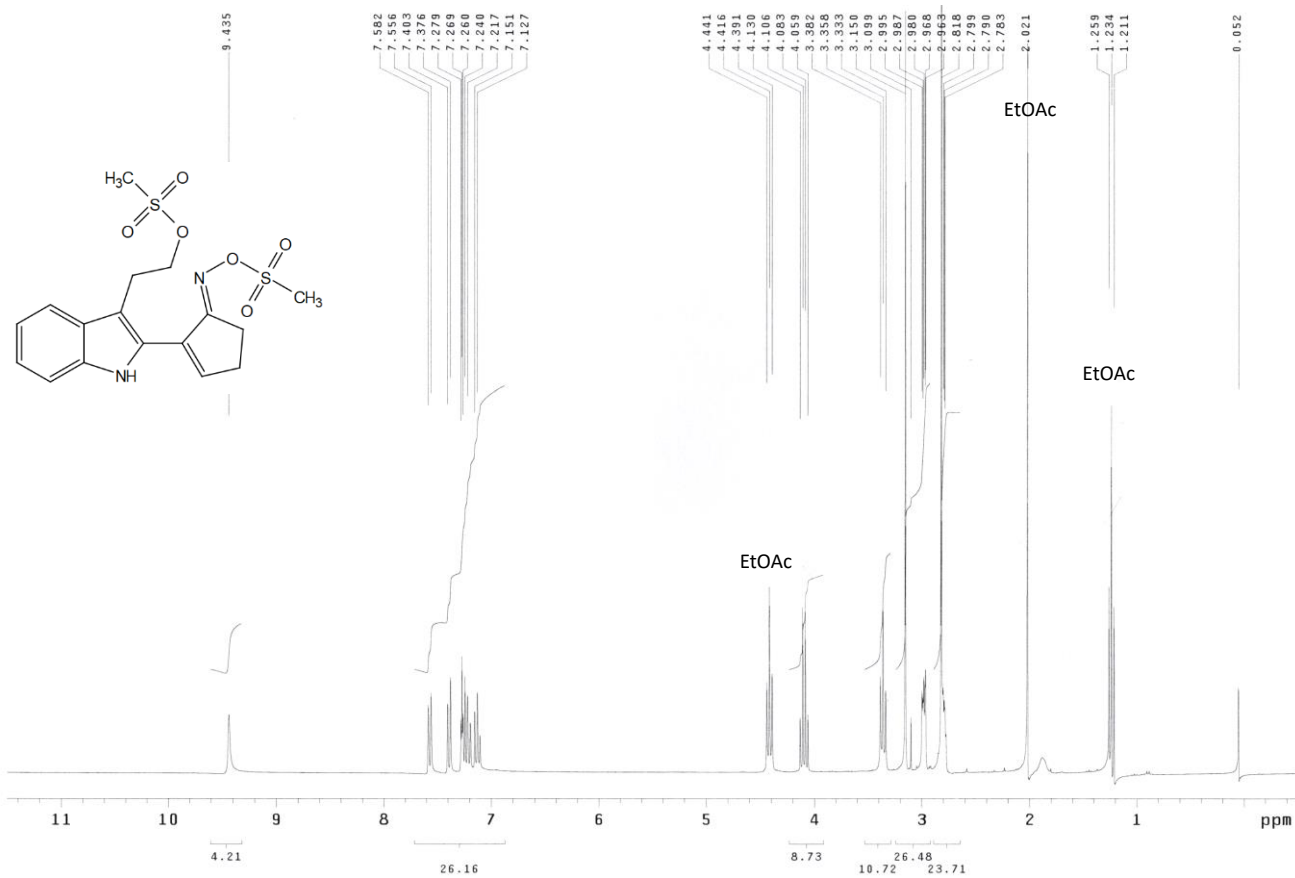
(E)-2-[3-(2-Hydroxyethyl)-1*H*-indol-2-yl]cyclopent-2-en-1-one Oxime (10)



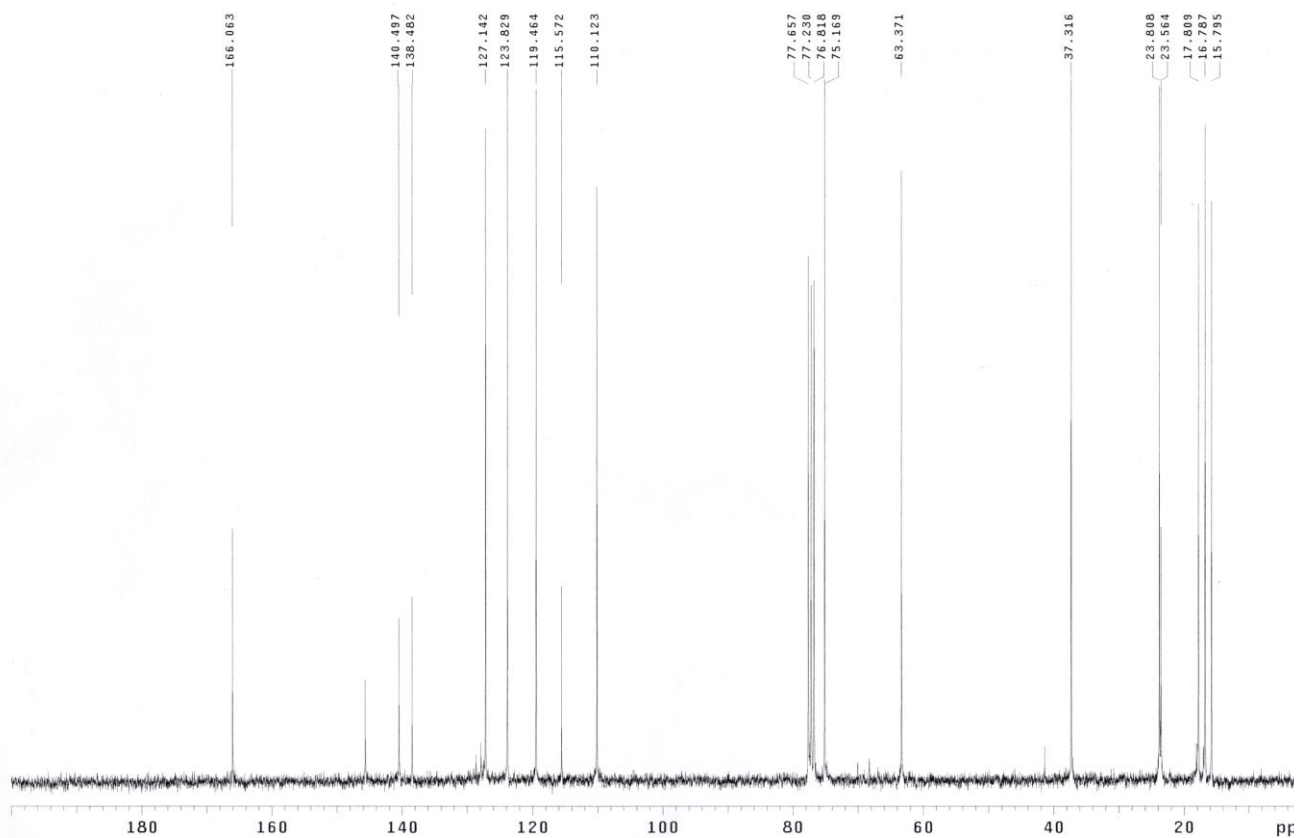
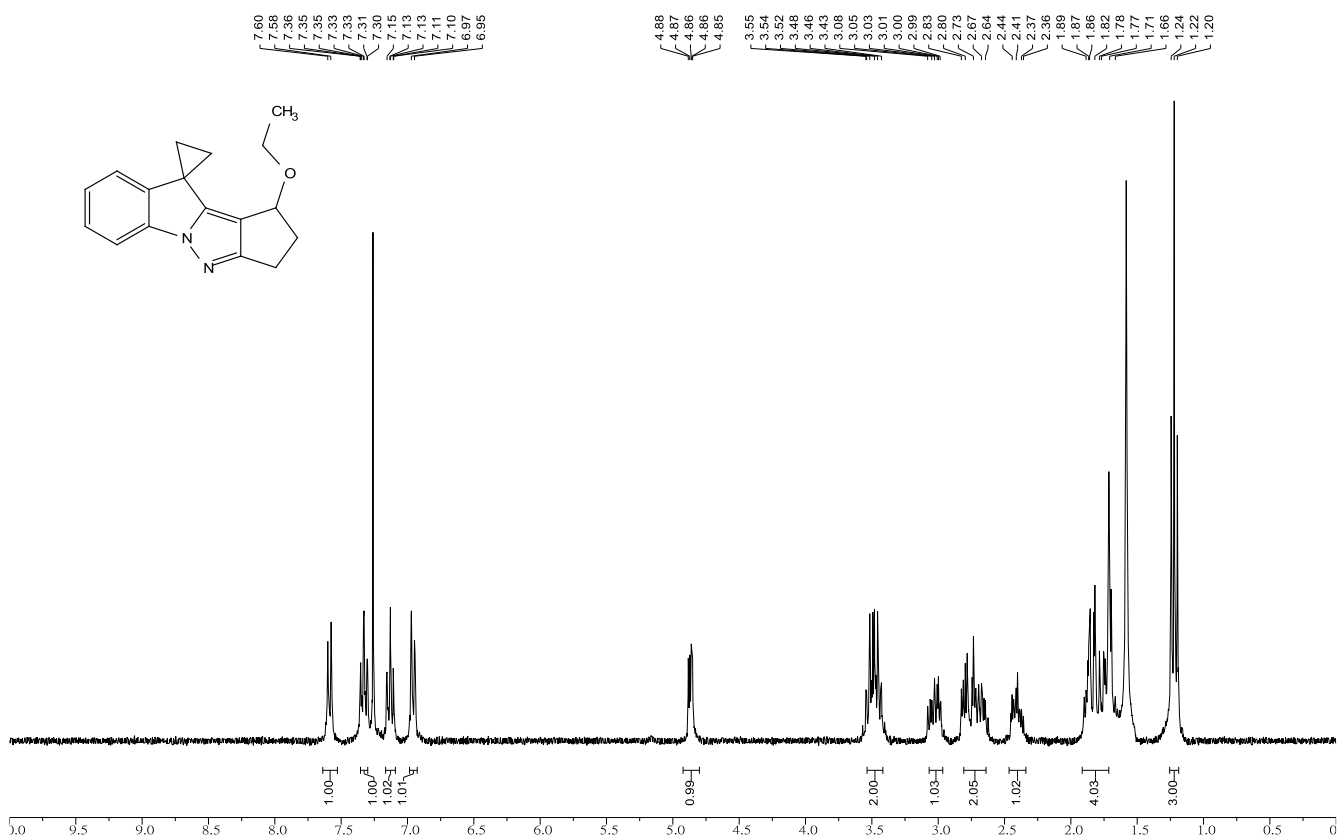
2-[3-(2-Hydroxyethyl)-1H-indol-2-yl]cyclopent-2-en-1-one (13)



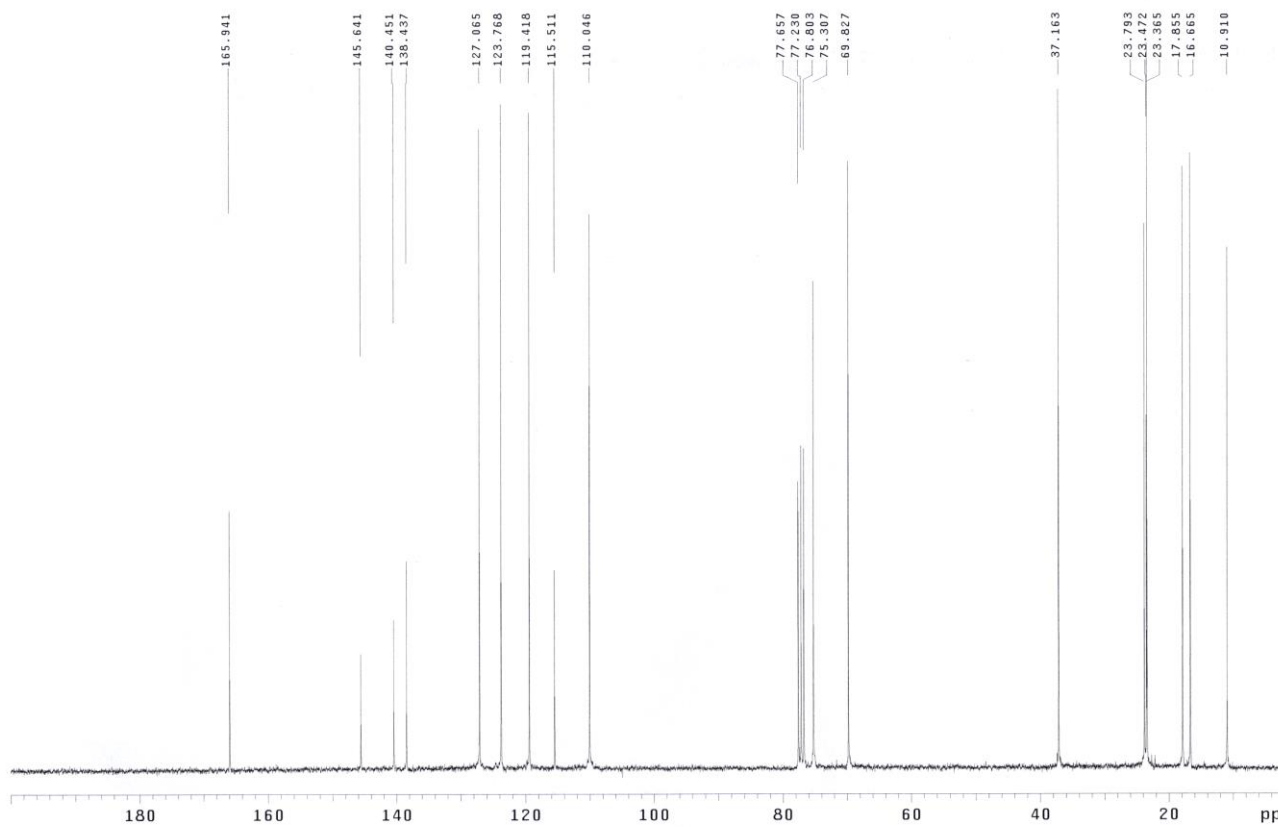
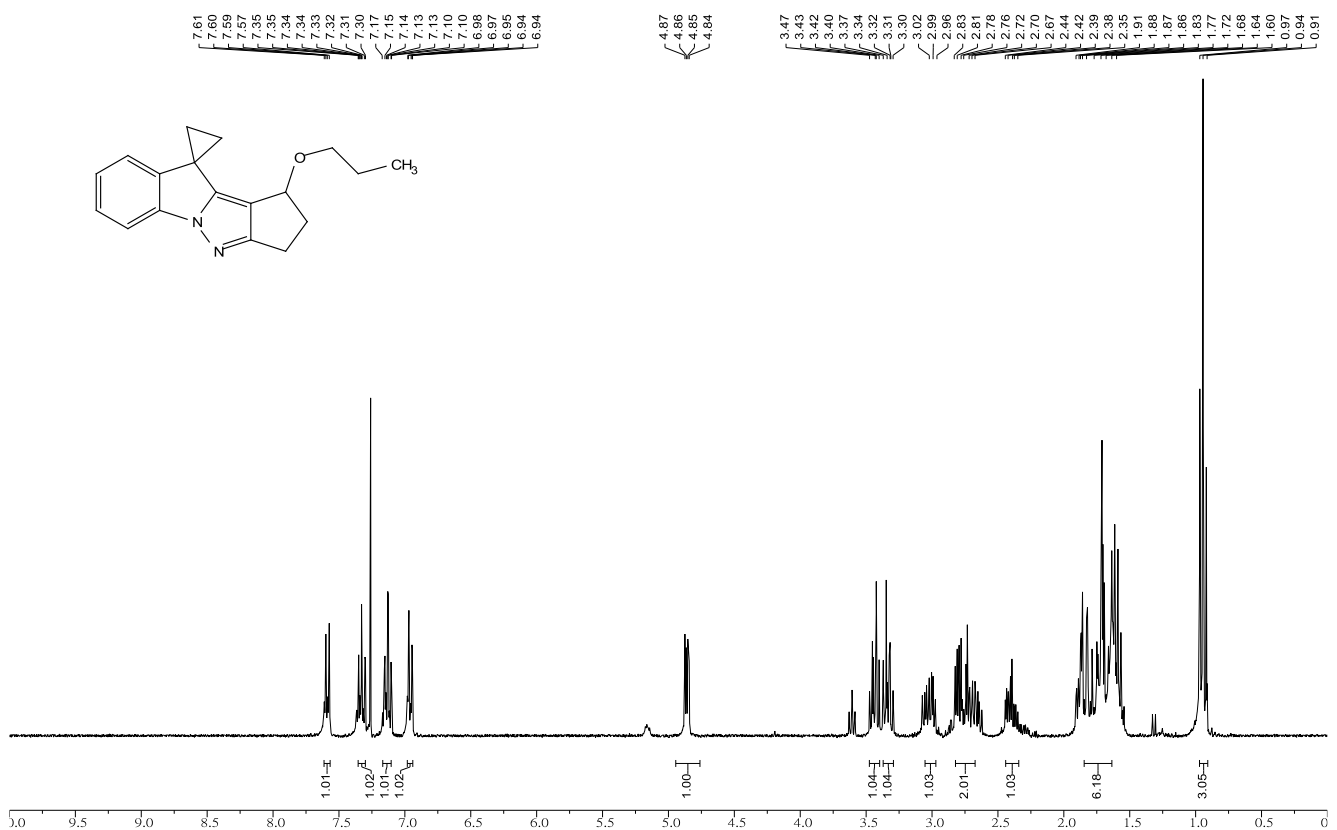
(E)-2-[2-(5-[(Methylsulfonyl)oxy]imino)cyclopent-1-en-1-yl]-1H-indol-3-yl]ethyl Methanesulfonate (11)



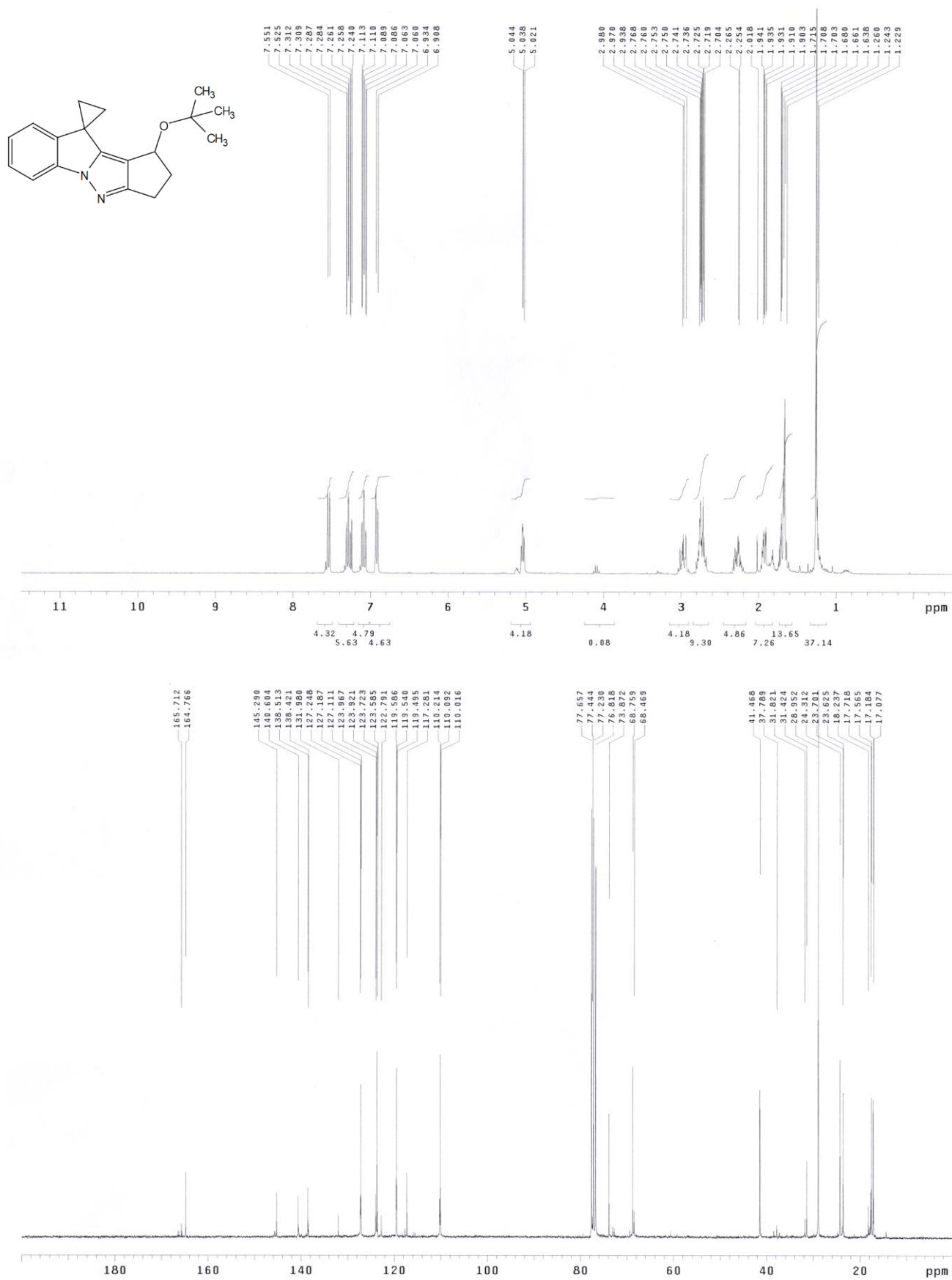
1-Ethoxy-2,3-dihydro-1*H*-spiro[cyclopenta[3,4]pyrazolo[1,5-*a*]indole-10,1'-cyclopropane] (6a)



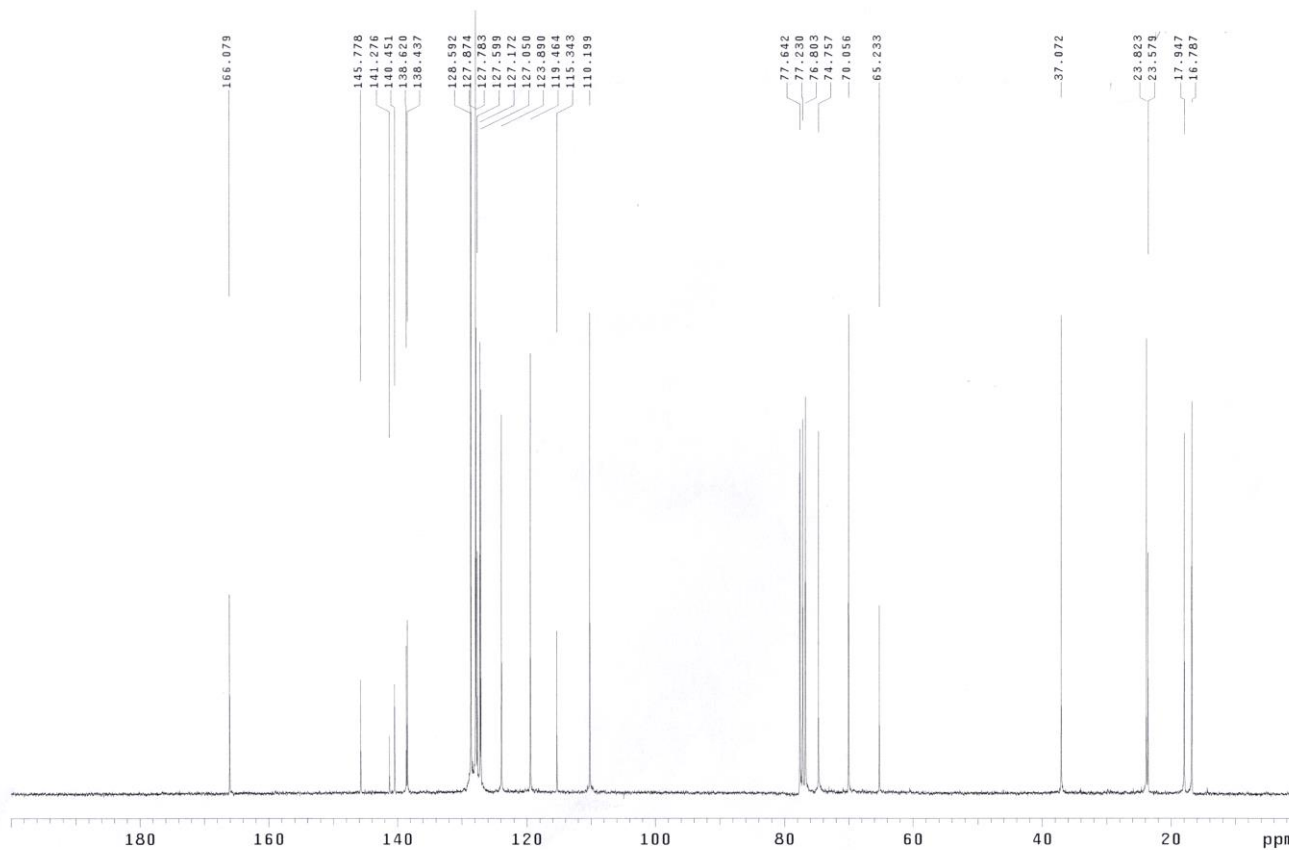
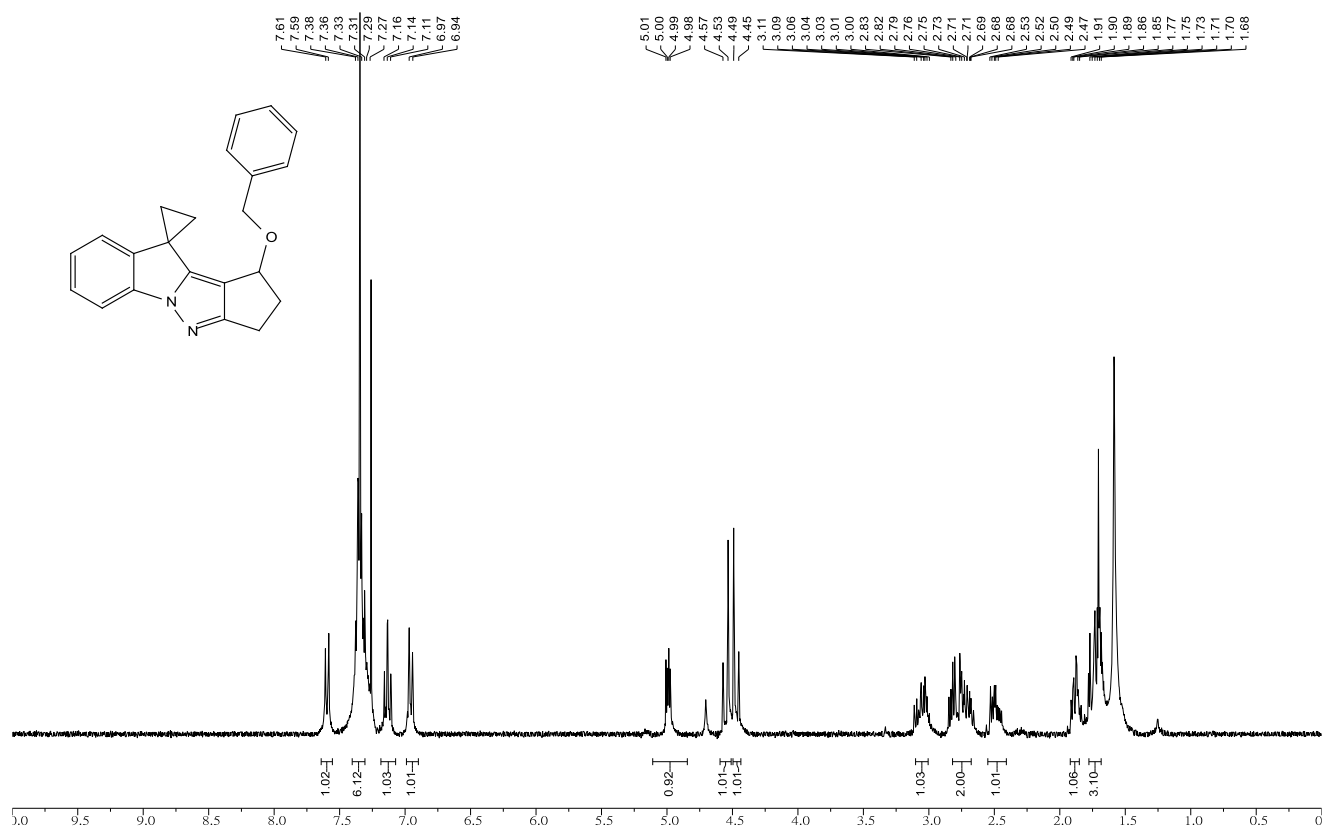
1-Propoxy-2,3-dihydro-1*H*-spiro[cyclopenta[3,4]pyrazolo[1,5-*a*]indole-10,1'-cyclopropane] (6b)



1-(*Tert*-butoxy)-2,3-dihydro-1*H*-spiro[cyclopenta[3,4]pyrazolo[1,5-*a*]indole-10,1'-cyclopropane] (6c)



1-(Benzyloxy)-2,3-dihydro-1*H*-spiro[cyclopenta[3,4]pyrazolo[1,5-*a*]indole-10,1'-cyclopropane] (6d)



7.547
7.292
7.288
7.266
7.240
7.237
7.219
7.186
7.164
7.039
7.036
6.805
6.880
5.687
5.684
5.577
5.554
5.536
5.533
5.528
5.576
5.573
5.556
5.552
5.548
5.548
5.533
5.528
5.501
5.498
4.845
4.834
4.823
4.817
3.854
3.838
3.834
3.820
3.818
3.003
2.891
2.864
2.842
2.826
2.756
2.744
2.741
2.727
2.715
2.712
2.674
2.663
2.644
2.621
2.619
2.599
2.590
2.570
2.570
2.400
2.393
2.380
2.365
2.351
2.336
2.320
2.320
2.255
1.841
1.838
1.834
1.826
1.823
1.813
1.793
1.788
1.746
1.711
1.686
1.673
1.649
1.630

expl stidh
SAMPLE
date Jun 29 2012 dfrq 300.055
solvent CDCl3 dn H1
file exp dpwr 30
ACQUISITION
sfrq 300.055 da nnn
tn H1 dnm c
at 2.668 dmf 200
np 25590
sw 4796.2 lb 0.10
fb 2600 wtfile
bs 4 proc ft
tpwr 60 fn not used
p1 9.2
d1 1.000 werr
tof 308.9 wexp wft
nt 32 wbs wft
ct 32 wnt
alock
gain not used
FLAGS
il n
in n
dp y
DISPLAY

DEC. & VT
H1
30
0
nnn
c
200
ft
not used
werr
wft
wft
not used
n
n
y

4.50 15.21 9.12 4.75 10.36 4.93 10.42 5.19 35.53

ppm

C=CCO[C@H]1CCc2nc3c(c1)C4C=CC=CC=C4N3C2