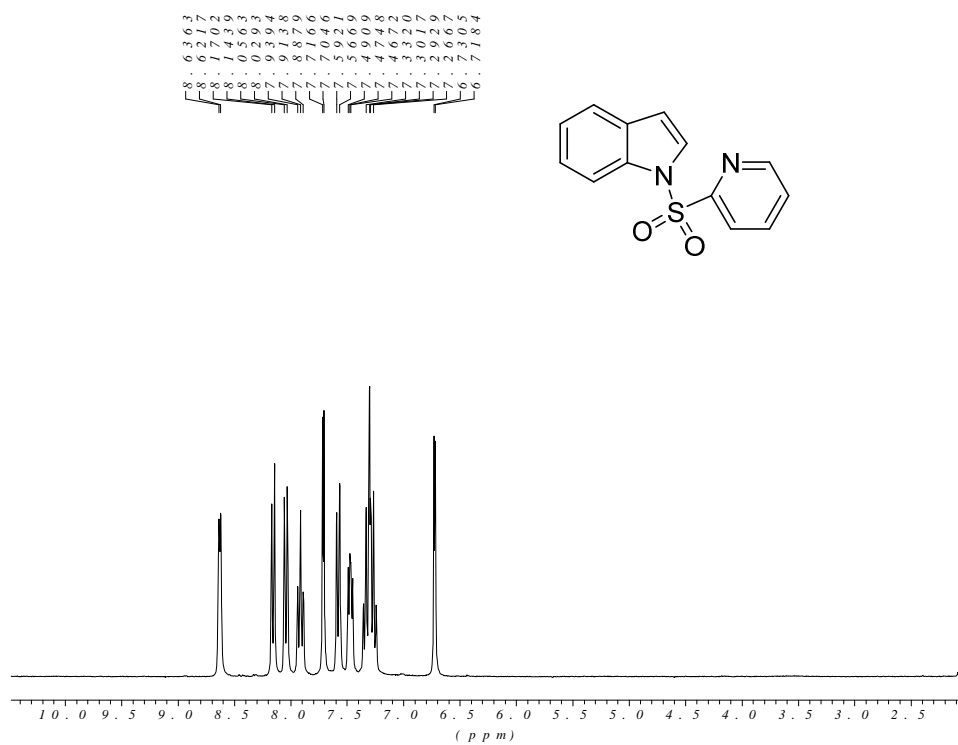

Appendix II-A:

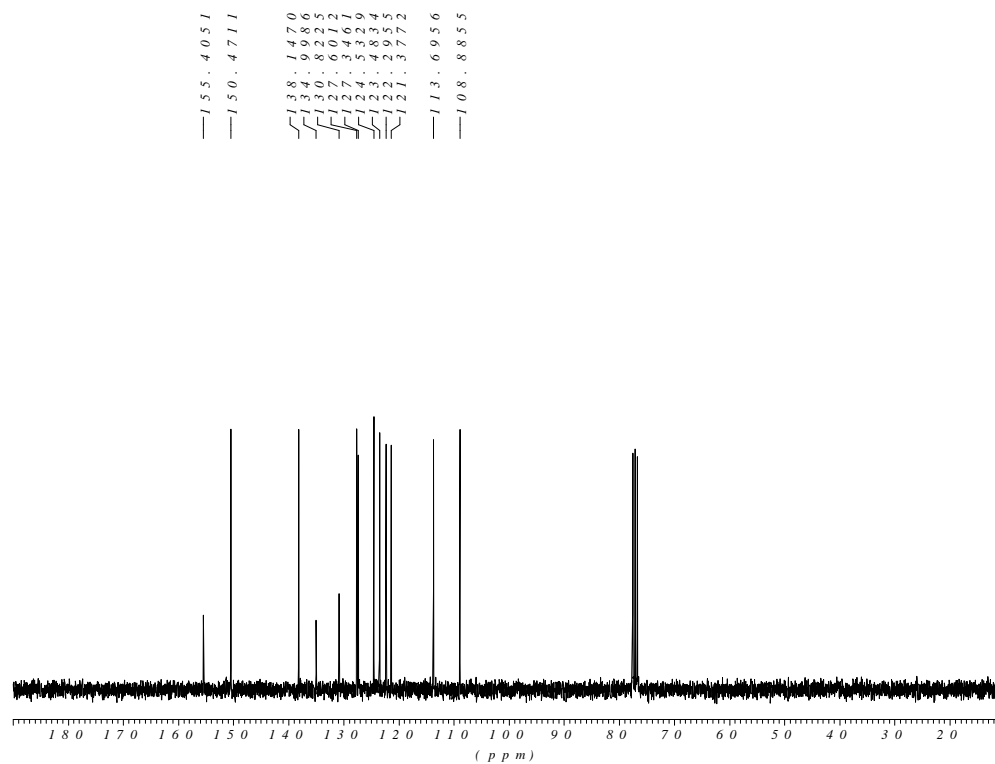
NMR spectra chapter 2

N-(2-pyridylsulfonyl)indole (1)

^1H NMR (CDCl_3 , 300 MHz)

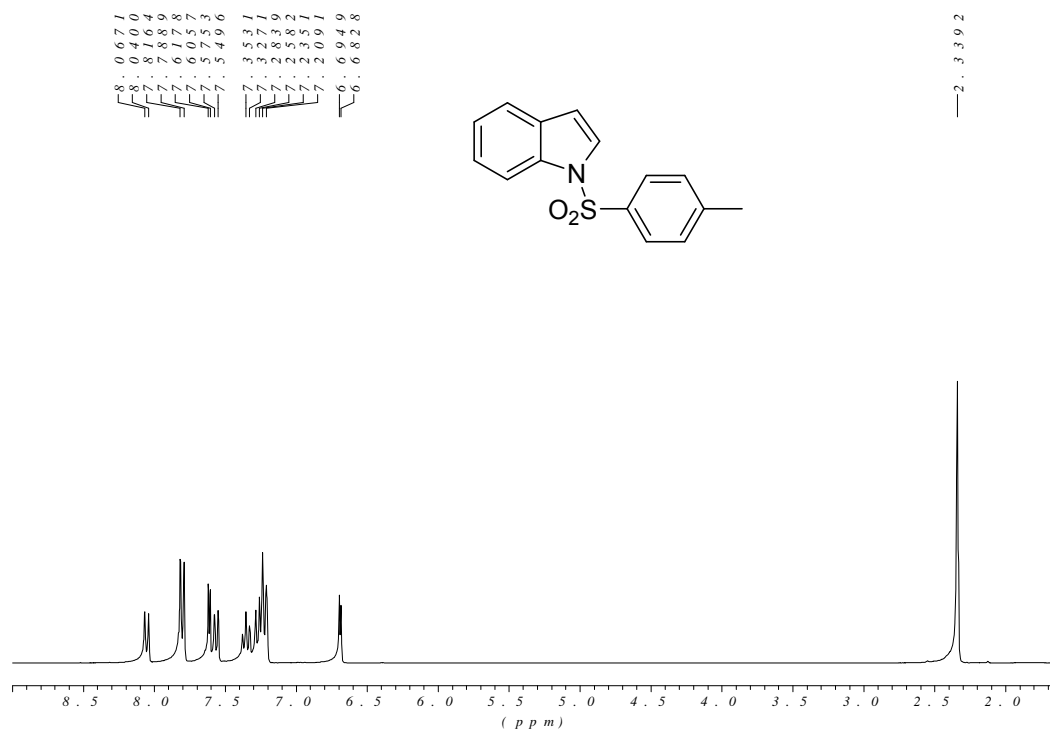


^{13}C NMR (CDCl_3 , 75 MHz)

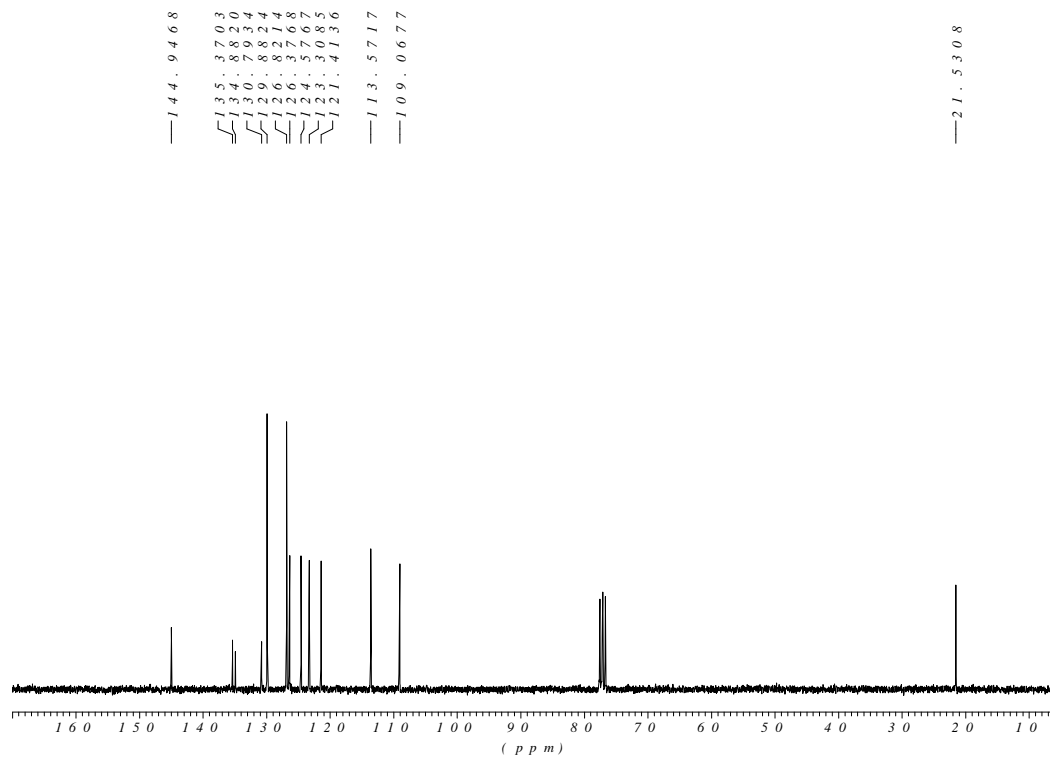


***N*-(4-Toluensulfonyl)indole (5)**

¹H NMR (CDCl₃, 300 MHz)

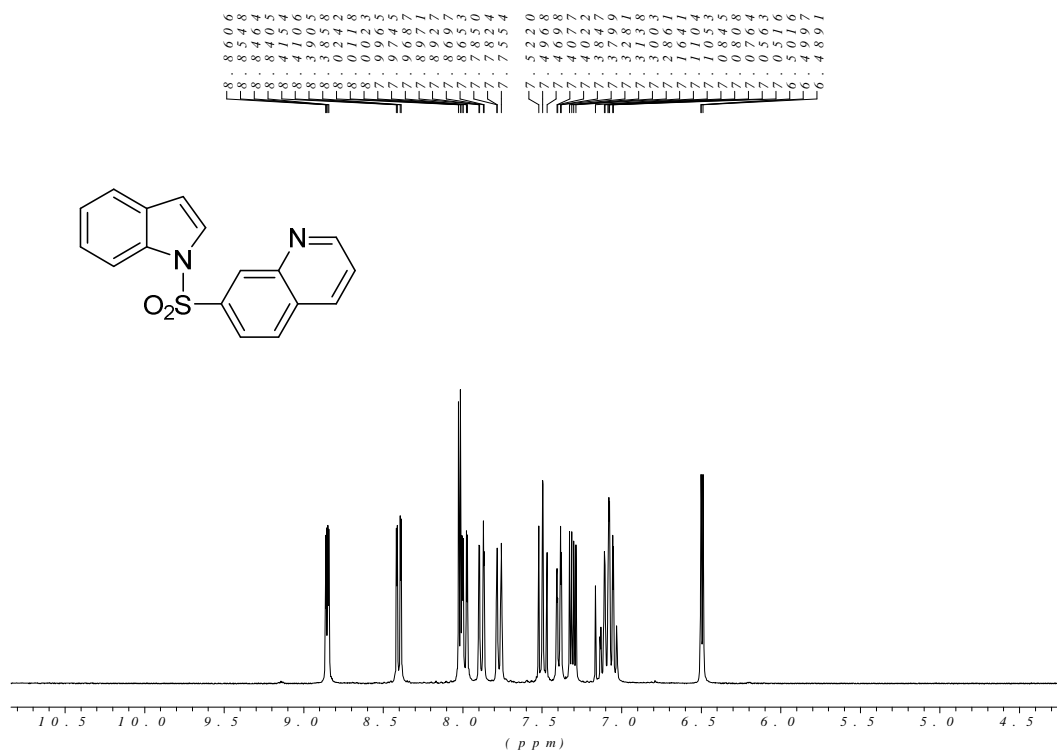


¹³C NMR (CDCl₃, 75 MHz)

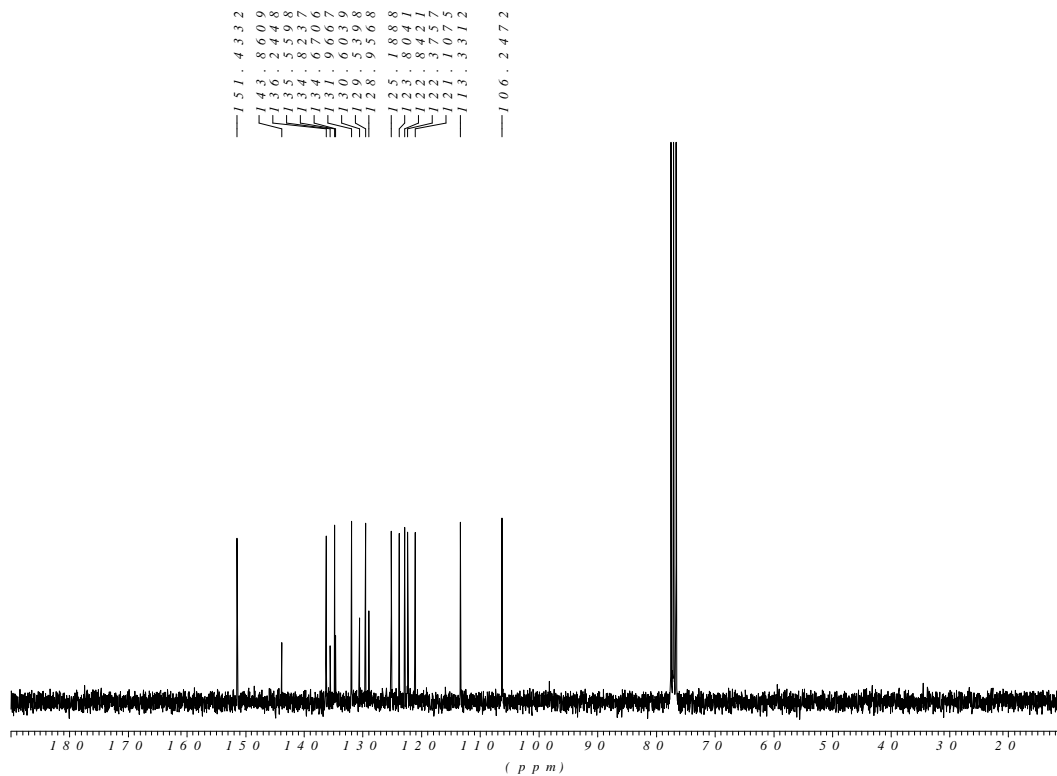


***N*-(8-Quinolylsulfonyl)indole (7)**

¹H NMR (CDCl₃, 300 MHz)

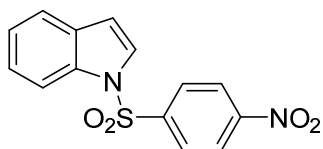
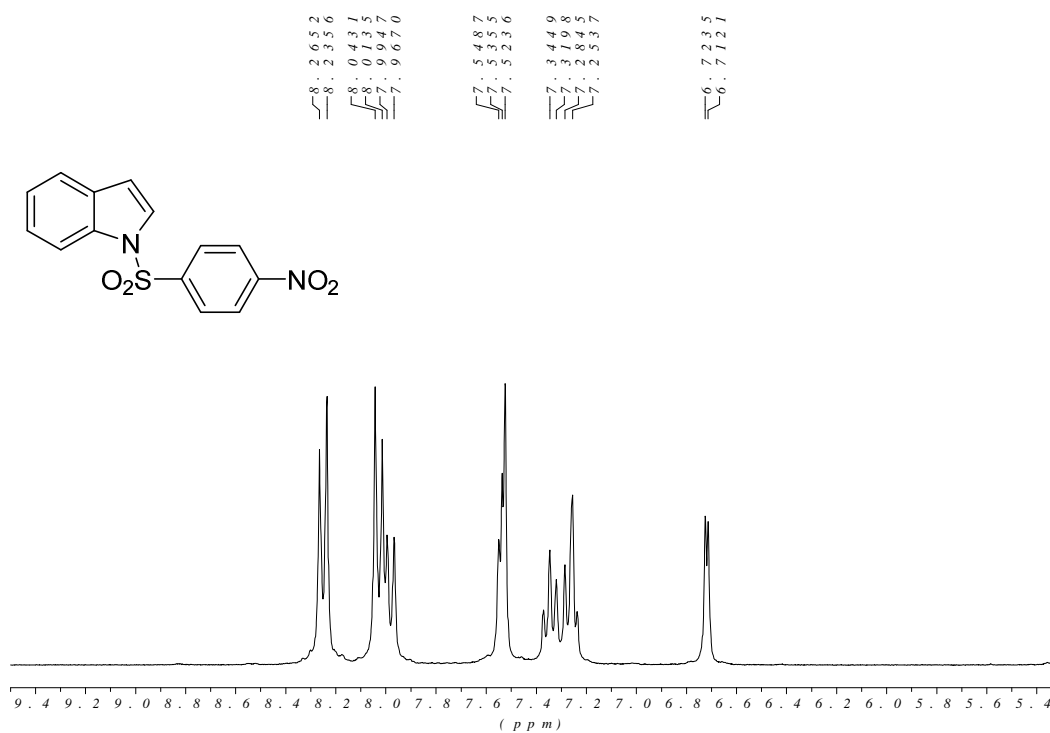


¹³C NMR (CDCl₃, 75 MHz)

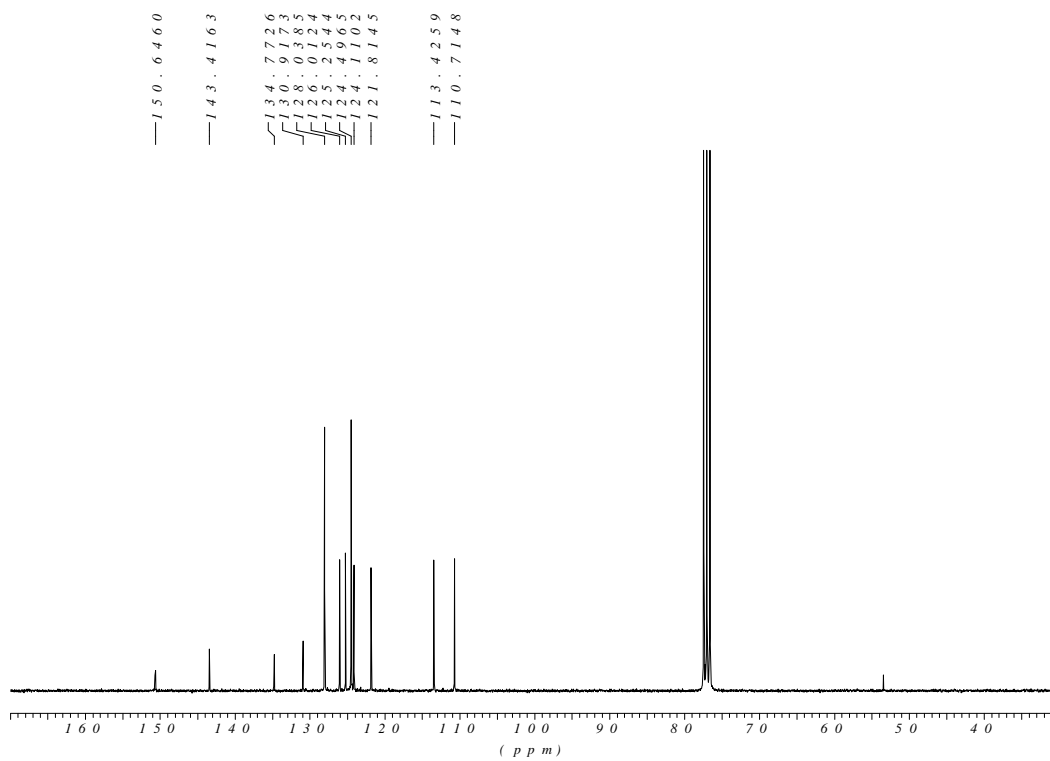


***N*-(4-Nitrophenylsulfonyl)indole (8)**

¹H NMR (CDCl₃, 300 MHz)

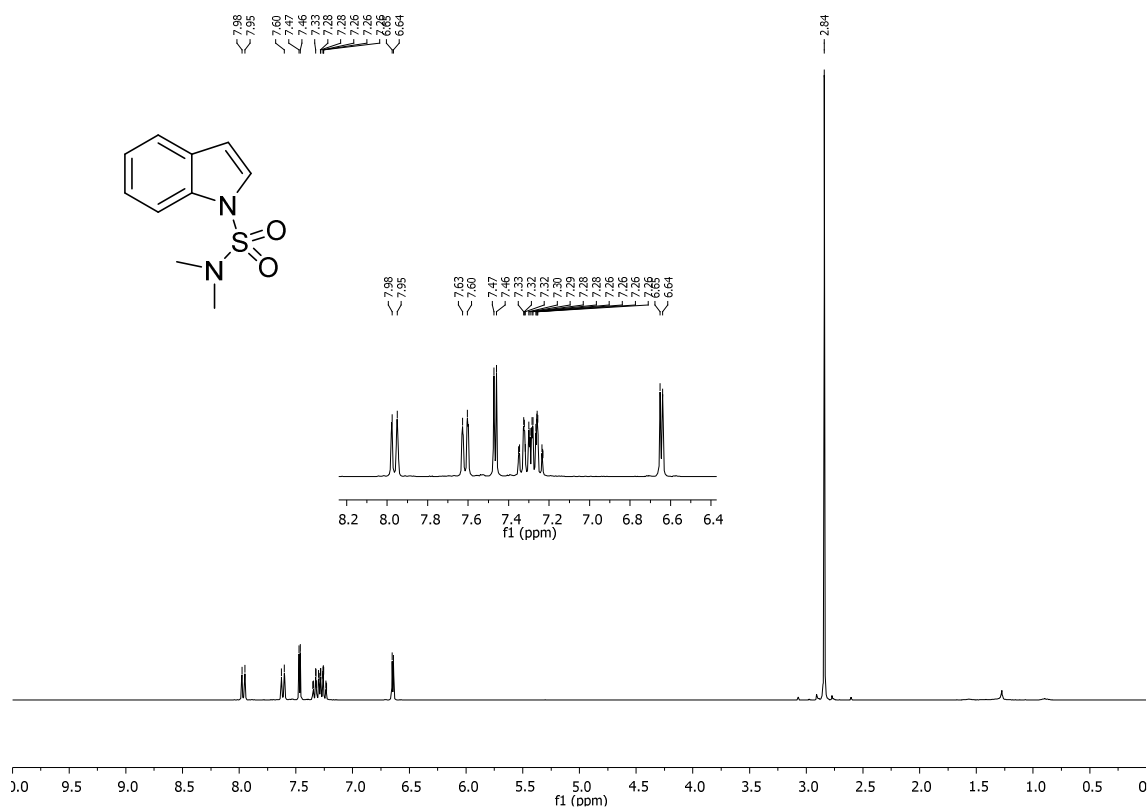


¹³C NMR (CDCl₃, 75 MHz)

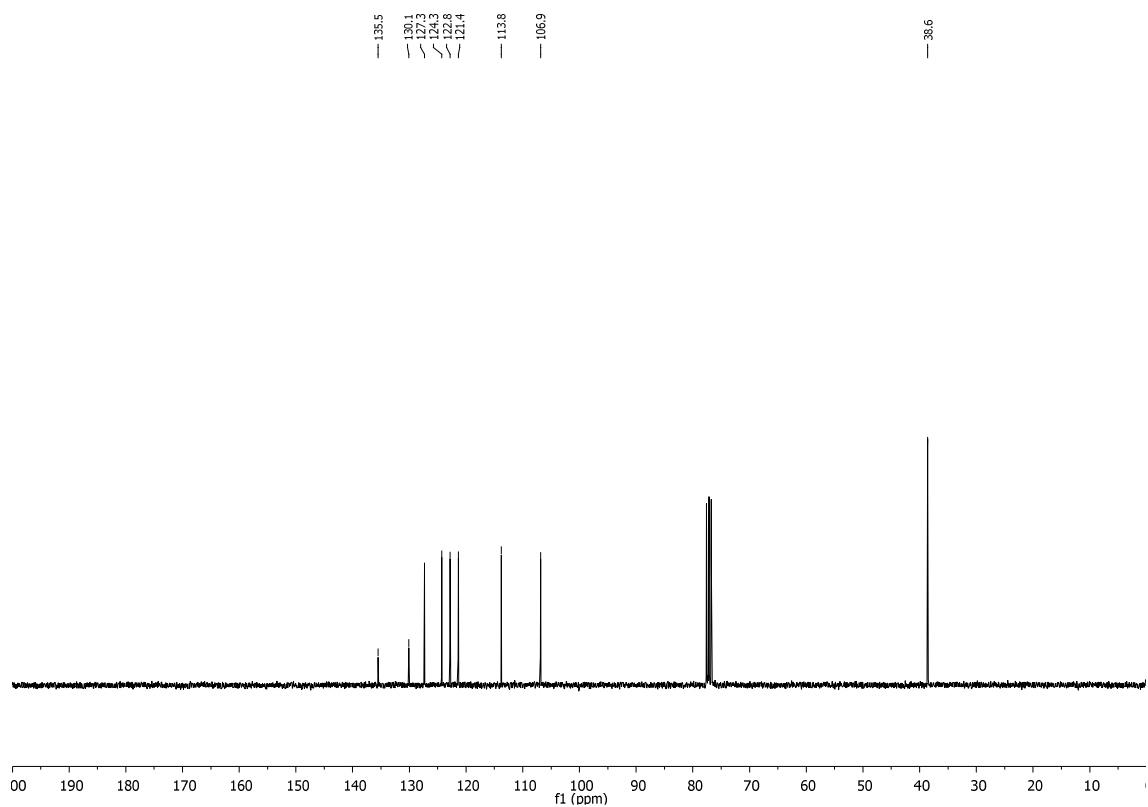


N-(*N,N'*-Dimethylsulfonyl)indole (9)

¹H NMR (CDCl₃, 300 MHz)

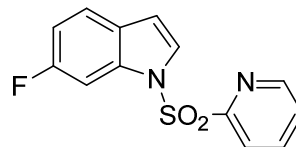
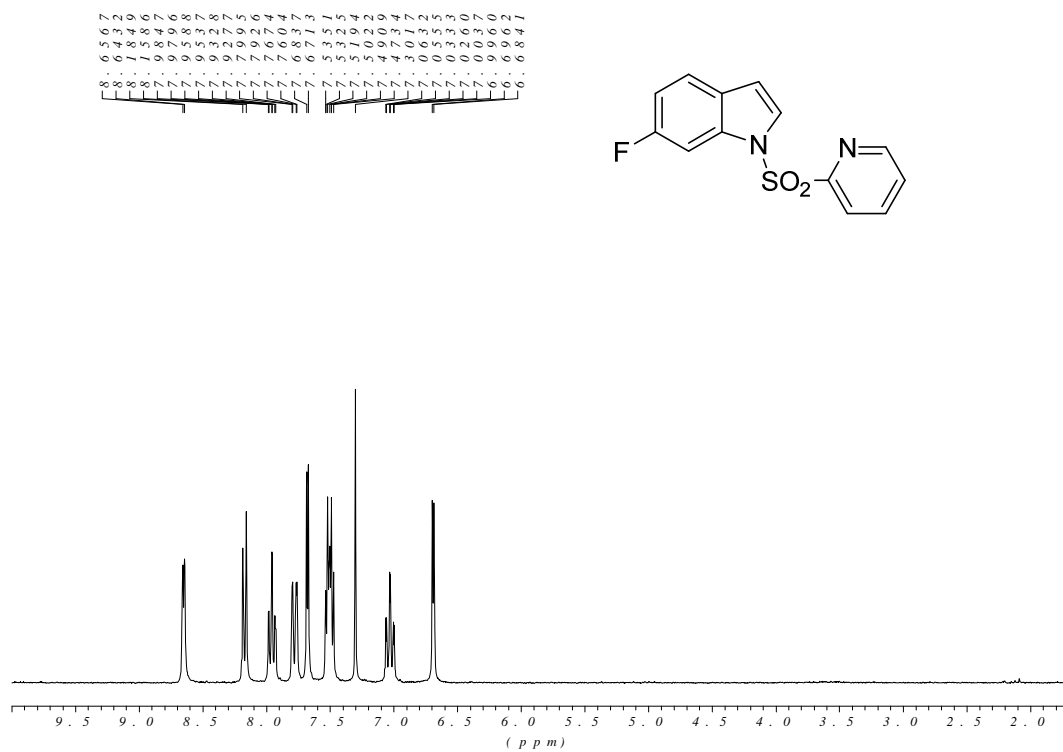


¹³C NMR (CDCl₃, 75 MHz)

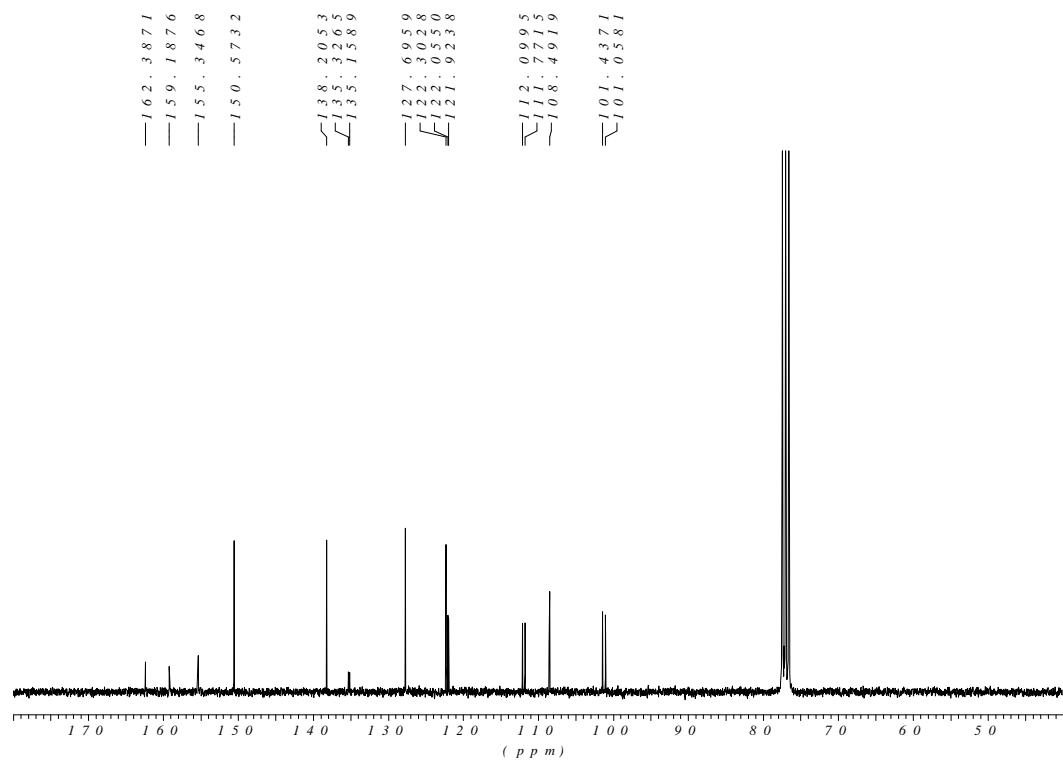


N-(2-Pyridylsulfonyl)-6-fluoroindole (27)

¹H NMR (CDCl₃, 300 MHz)

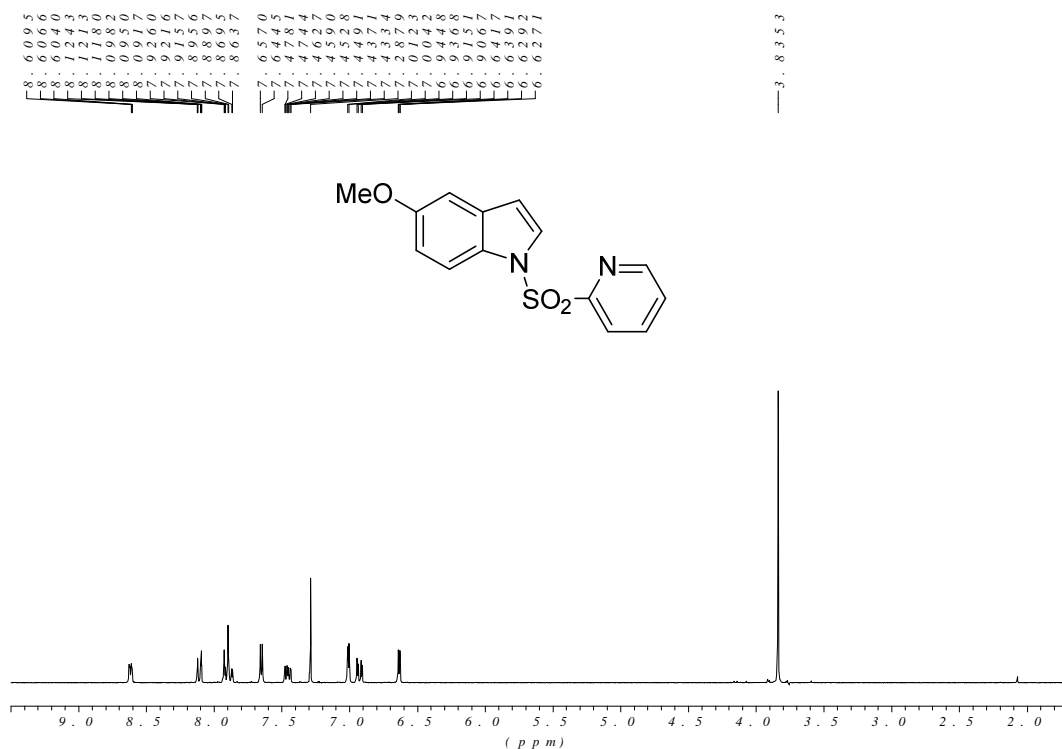


¹³C NMR (CDCl₃, 75 MHz)

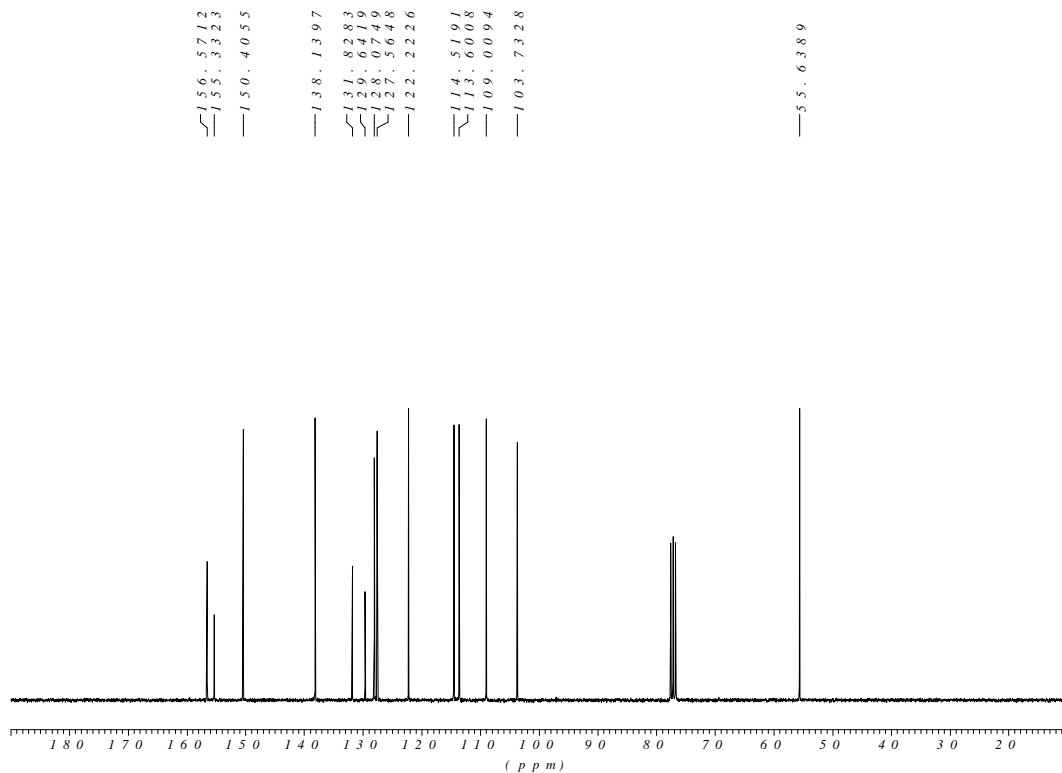


N-(2-Pyridylsulfonyl)-5-methoxyindole (28)

^1H NMR (CDCl_3 , 300 MHz)

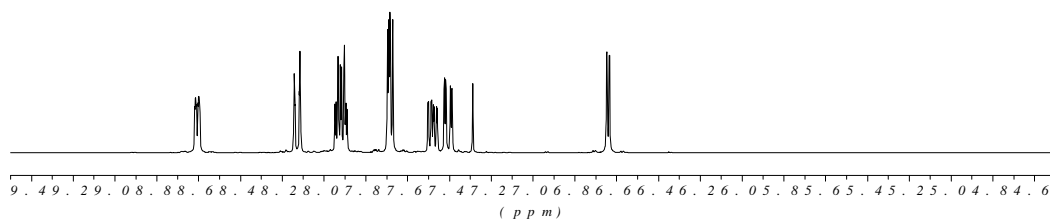
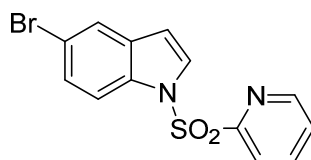
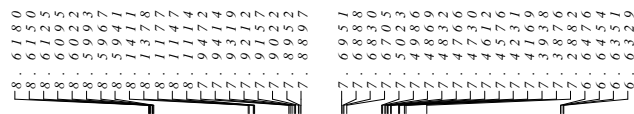


^{13}C NMR (CDCl_3 , 75 MHz)

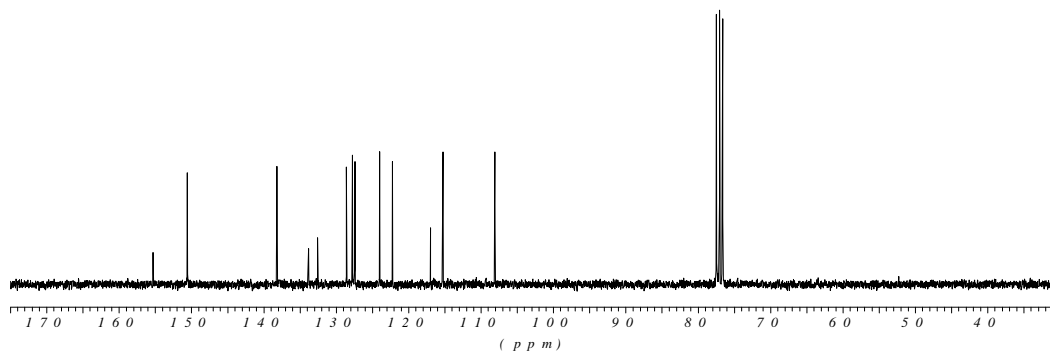
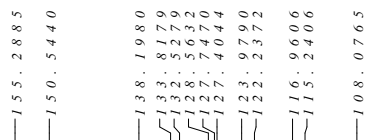


***N*-(2-Pyridylsulfonyl)-5-bromoindole (29)**

¹H NMR (CDCl₃, 300 MHz)

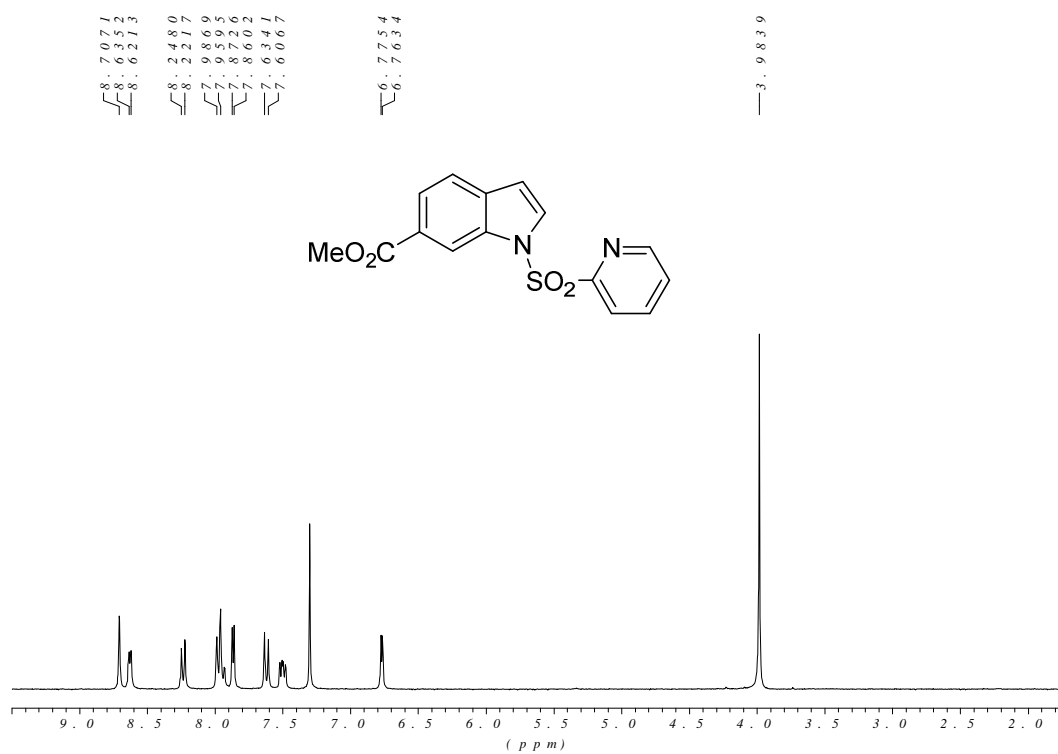


¹³C NMR (CDCl₃, 75 MHz)

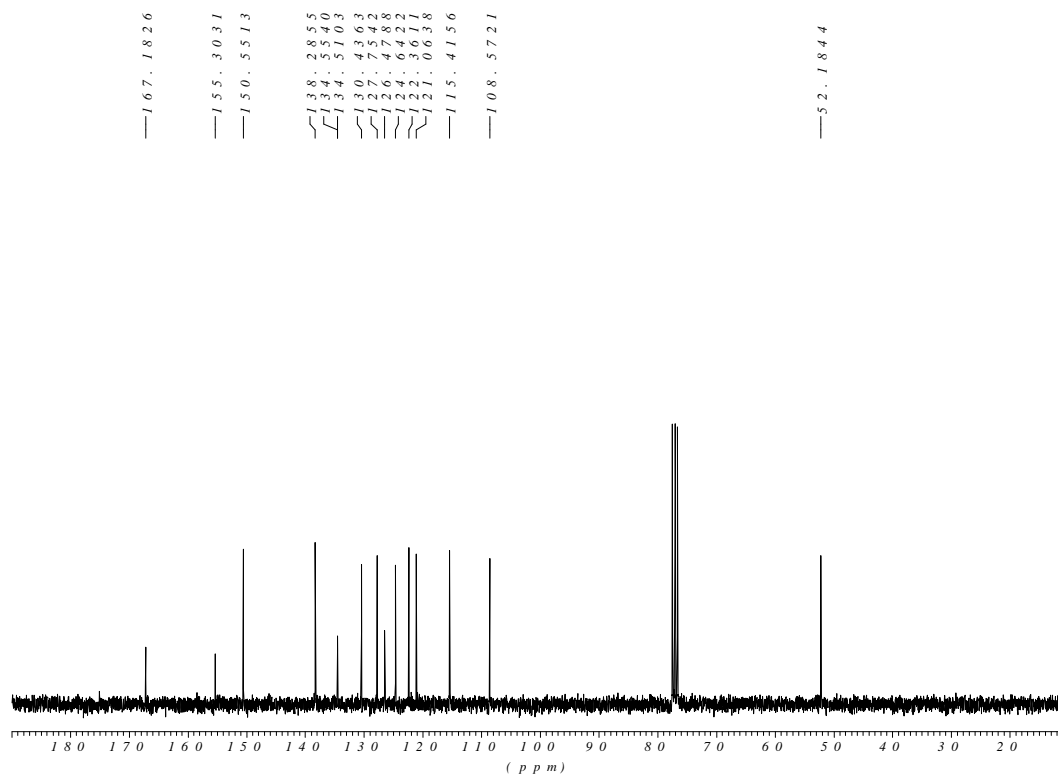


***N*-(2-Pyridylsulfonyl)-6-methoxycarbonylindole (30)**

¹H NMR (CDCl₃, 300 MHz)

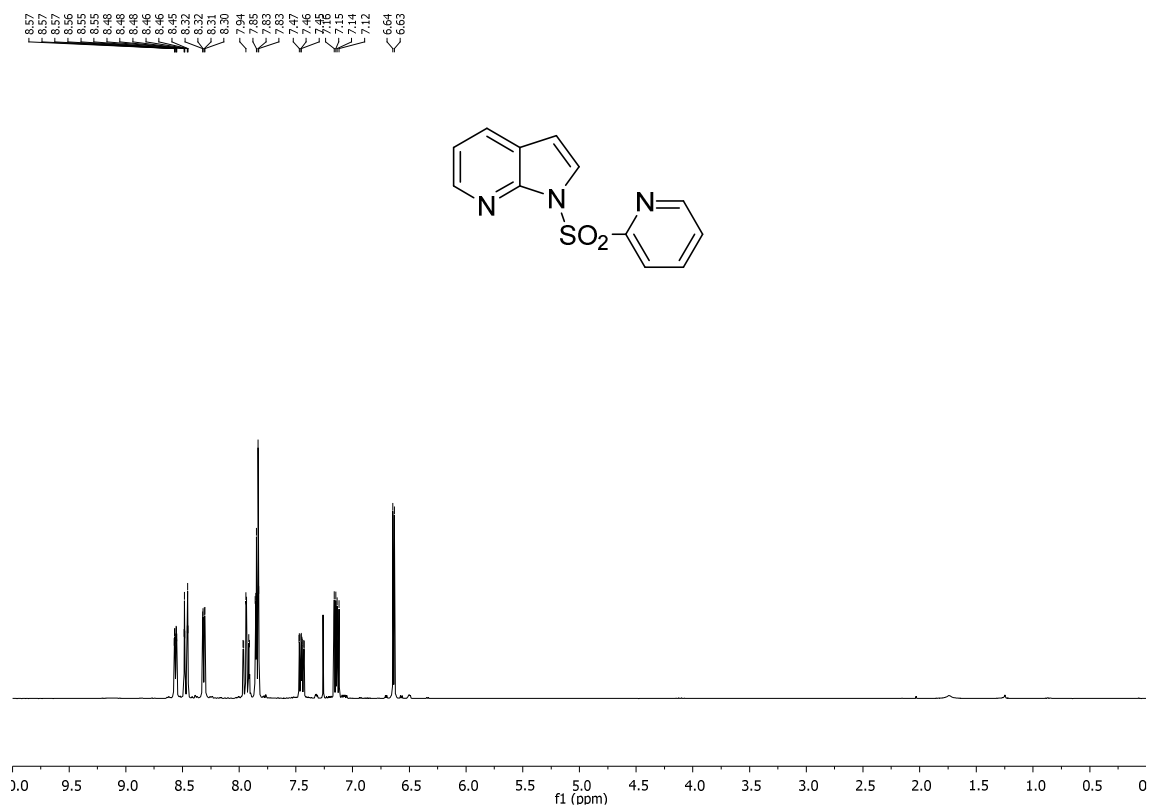


¹³C NMR (CDCl₃, 75 MHz)

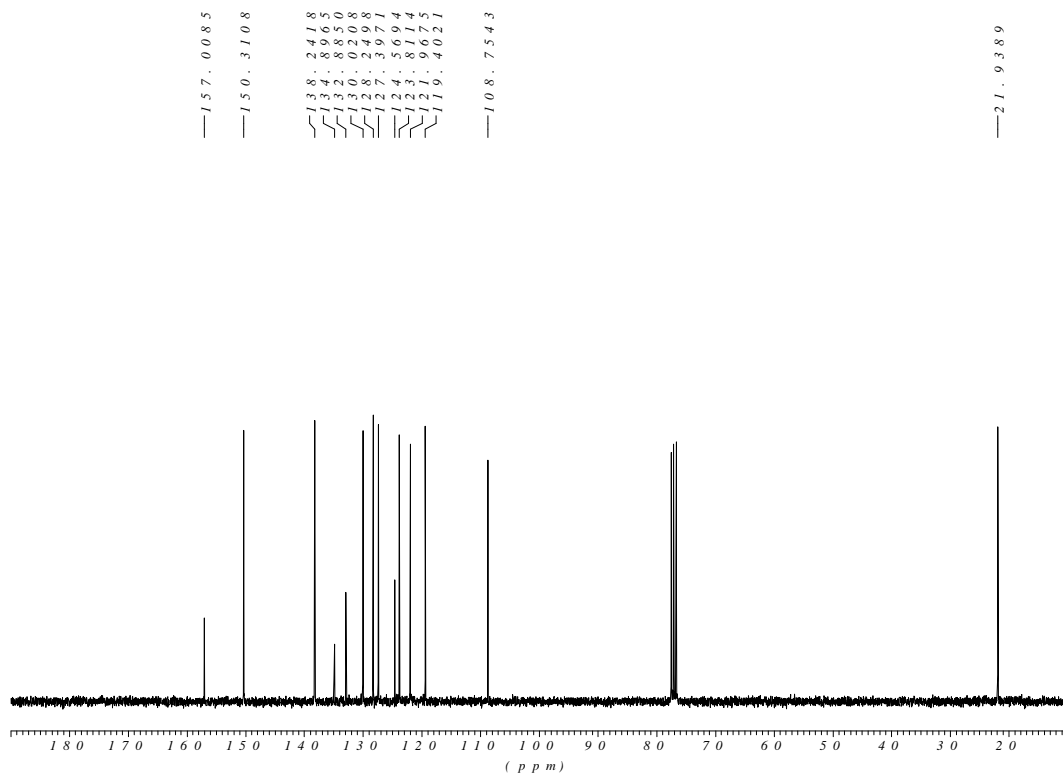


7-Aza-N-(2-pyridylsulfonyl)indole (31)

^1H NMR (CDCl_3 , 300 MHz)



^{13}C NMR (CDCl_3 , 75 MHz)

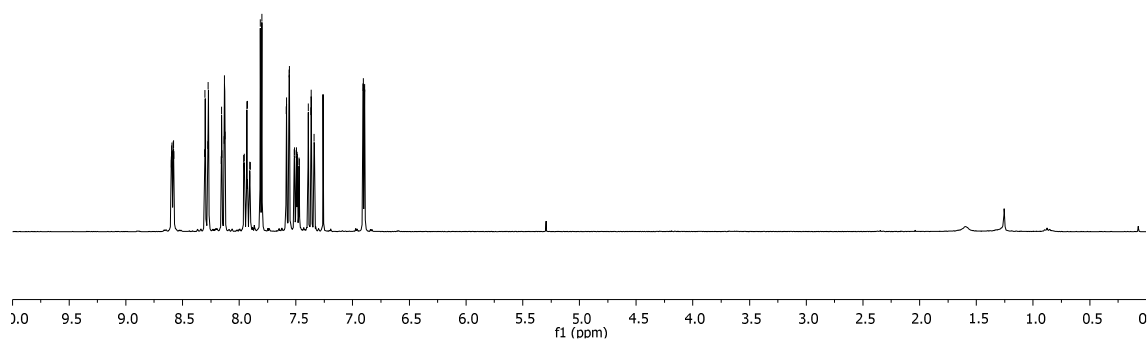
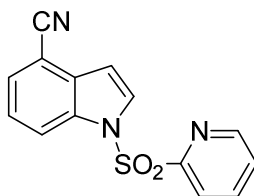


N-(2-Pyridylsulfonyl)-7-methylindole (32)

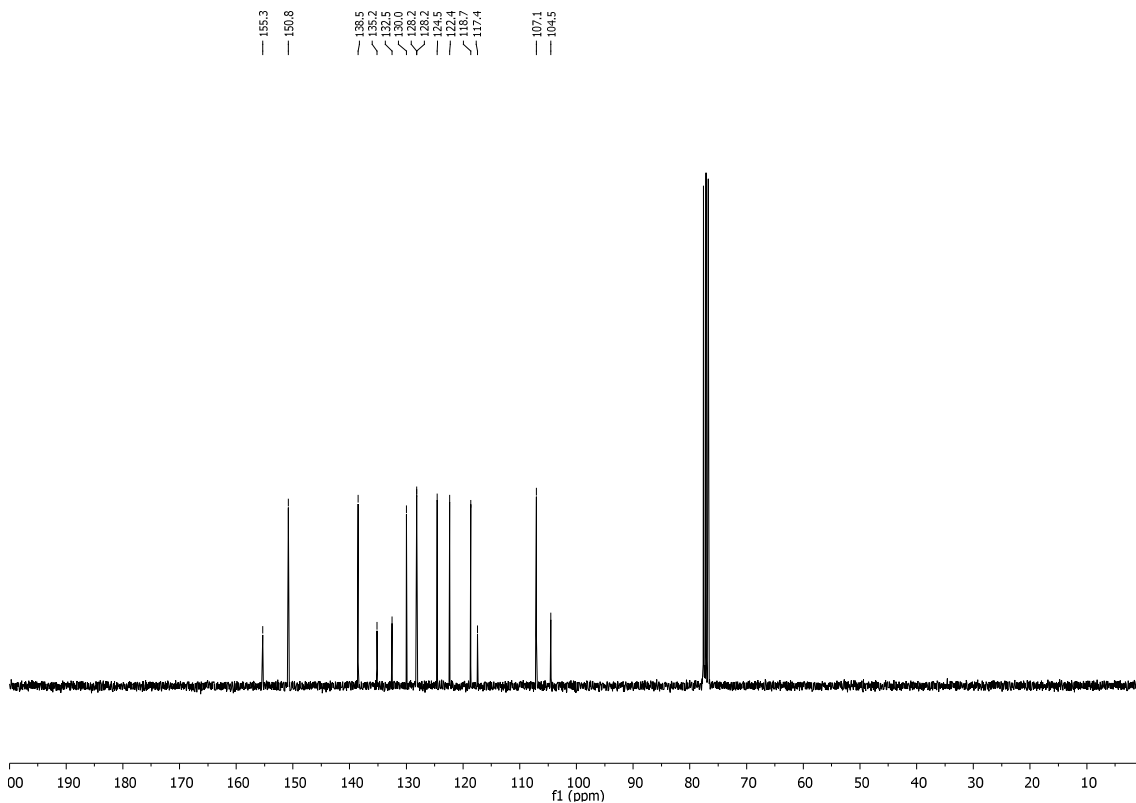
^1H NMR (CDCl_3 , 300 MHz)

Chemical shifts (ppm):

- 8.660
- 8.660
- 8.559
- 8.558
- 8.558
- 8.558
- 8.390
- 8.277
- 8.113
- 7.933
- 7.803
- 7.800
- 7.756
- 7.756
- 7.696
- 7.691
- 7.691
- 6.889

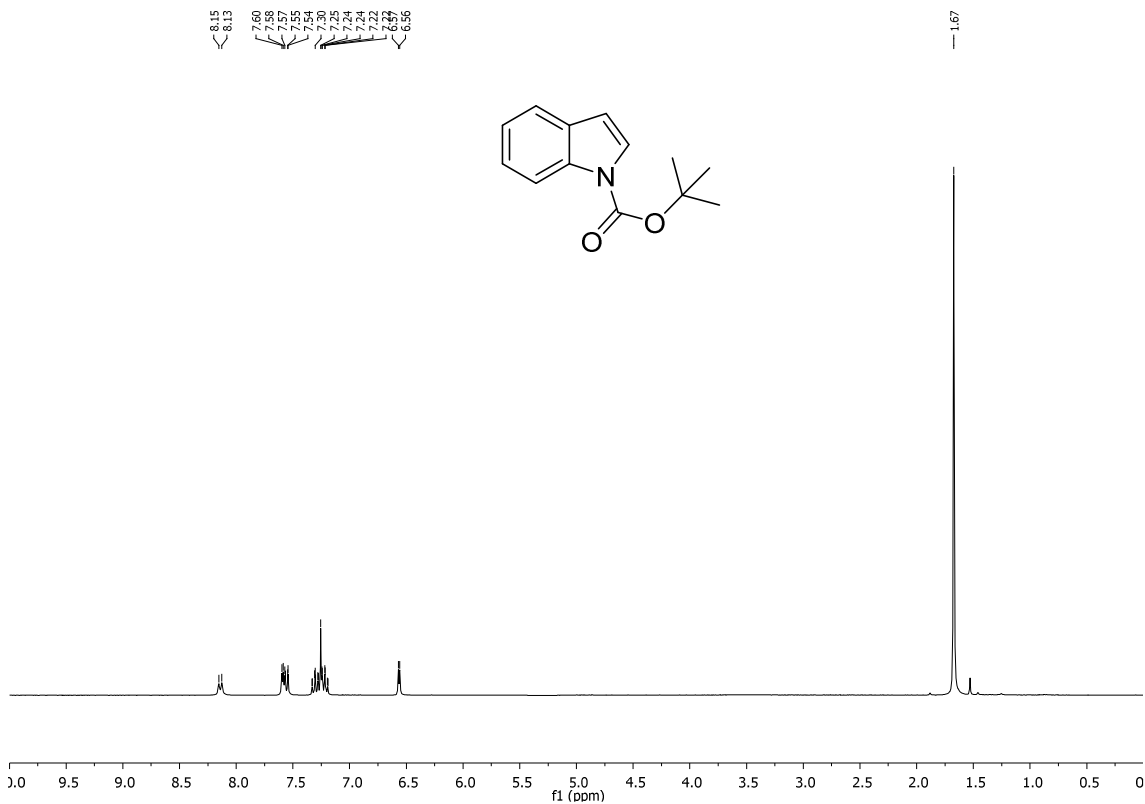


^{13}C NMR (CDCl_3 , 75 MHz)

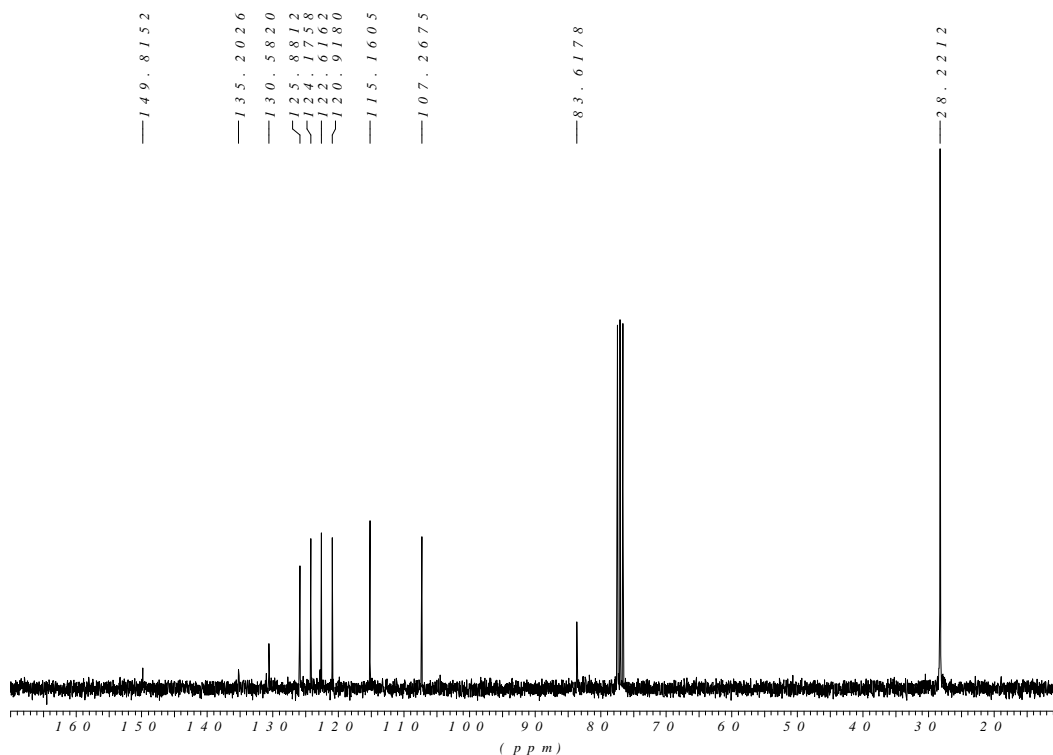


tert-Butyl-1-indole carboxylate (10)

¹H NMR (CDCl₃, 300 MHz)



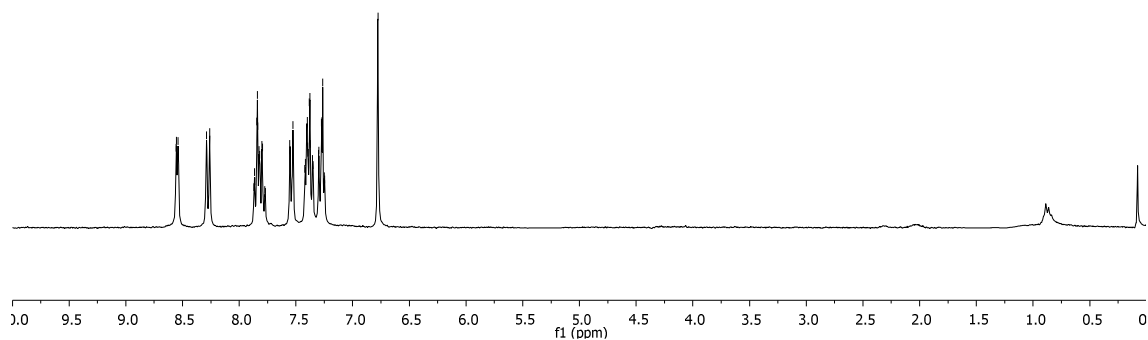
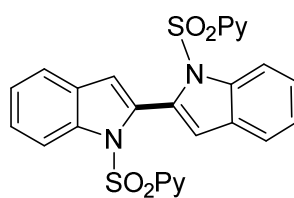
¹³C NMR (CDCl₃, 75 MHz)



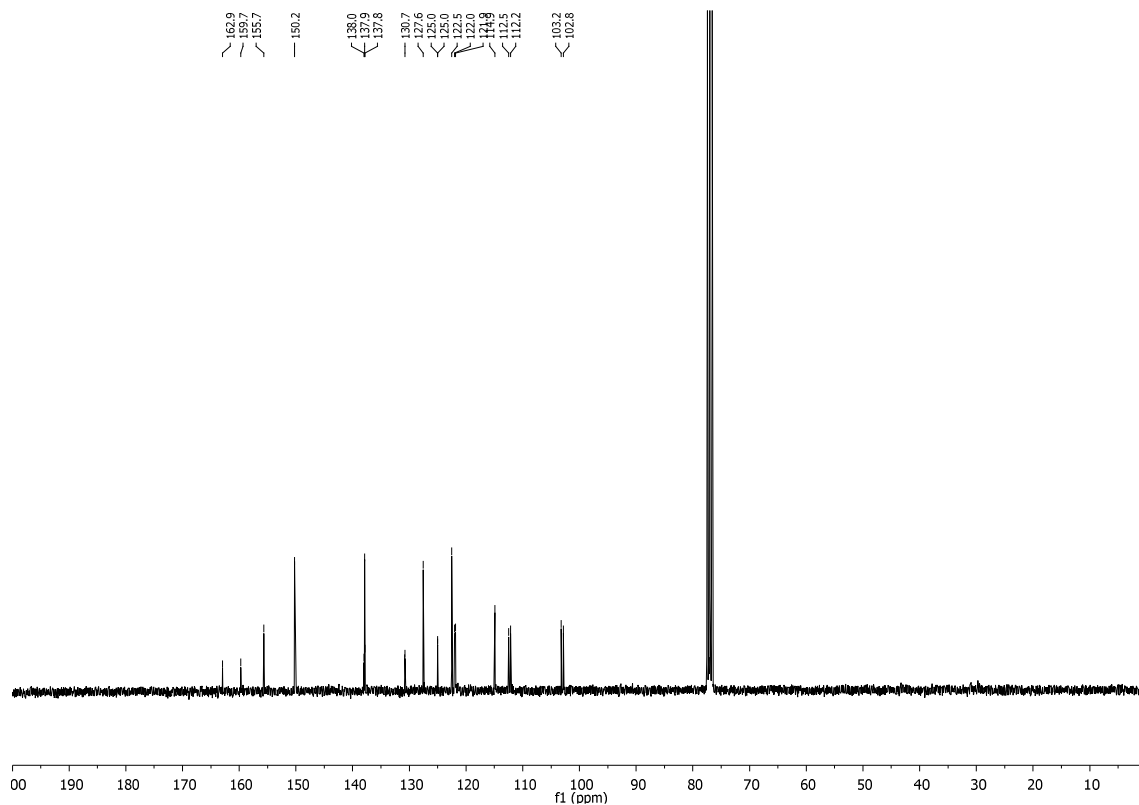
***N,N'*-Bis(2-pyridylsulfonyl)-2,2'-biindole (2)**

¹H NMR (CDCl₃, 300 MHz)

8.55
8.54
8.54
8.29
8.26
7.84
7.84
7.53
7.46
7.38
7.38
7.27
7.27
6.78

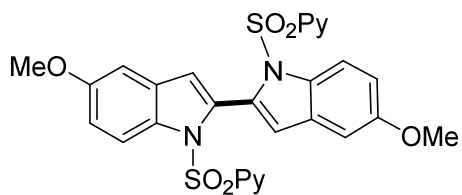
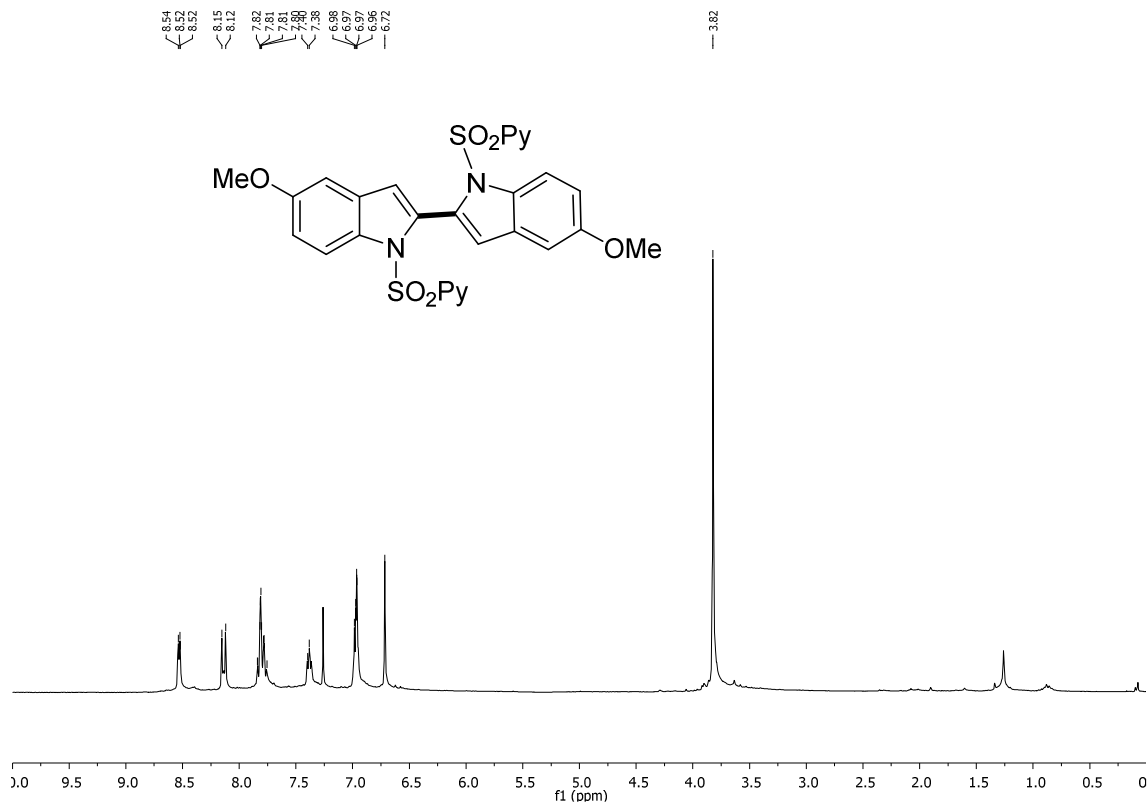


¹³C NMR (CDCl₃, 75 MHz)

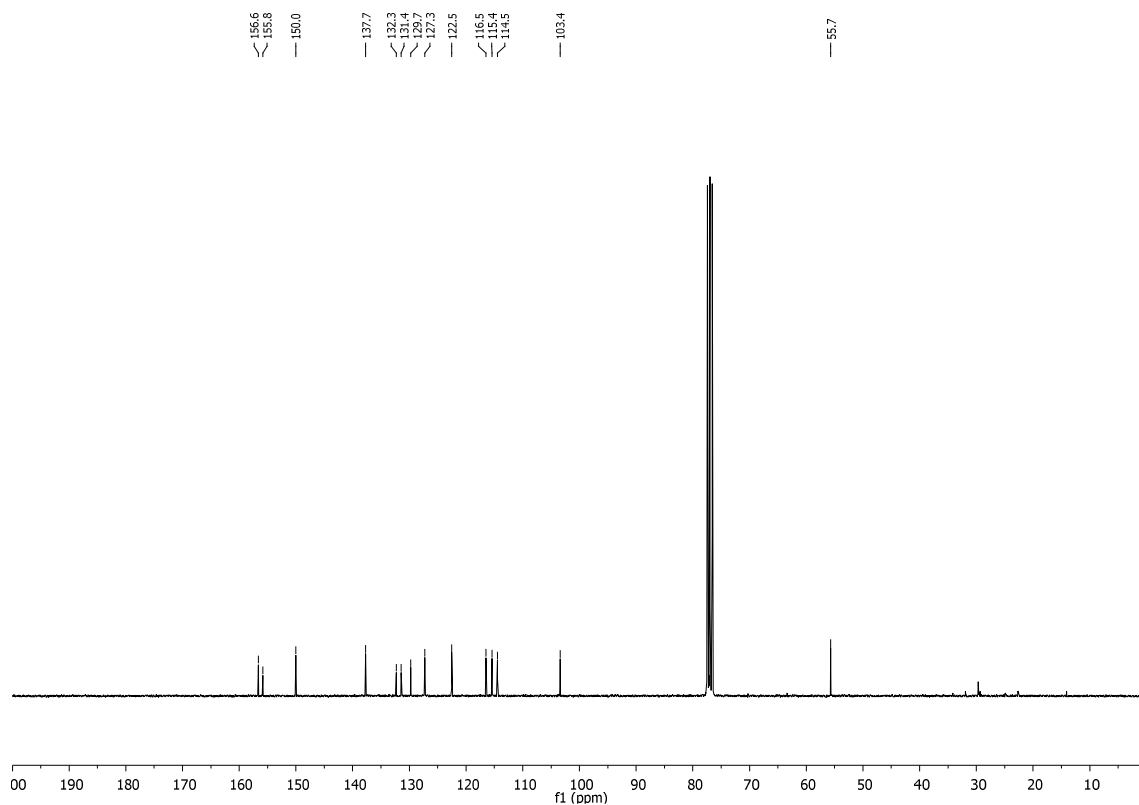


5,5'-Dimethoxy-*N,N'*-bis(2-pyridylsulfonyl)-2,2'-biindole (35)

¹H NMR (CDCl₃, 300 MHz)



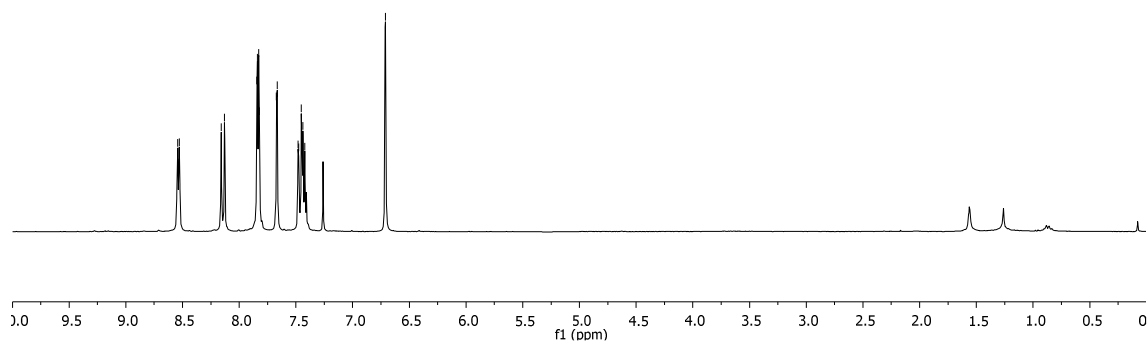
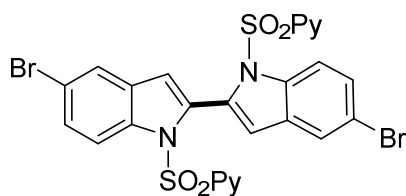
¹³C NMR (CDCl₃, 75 MHz)



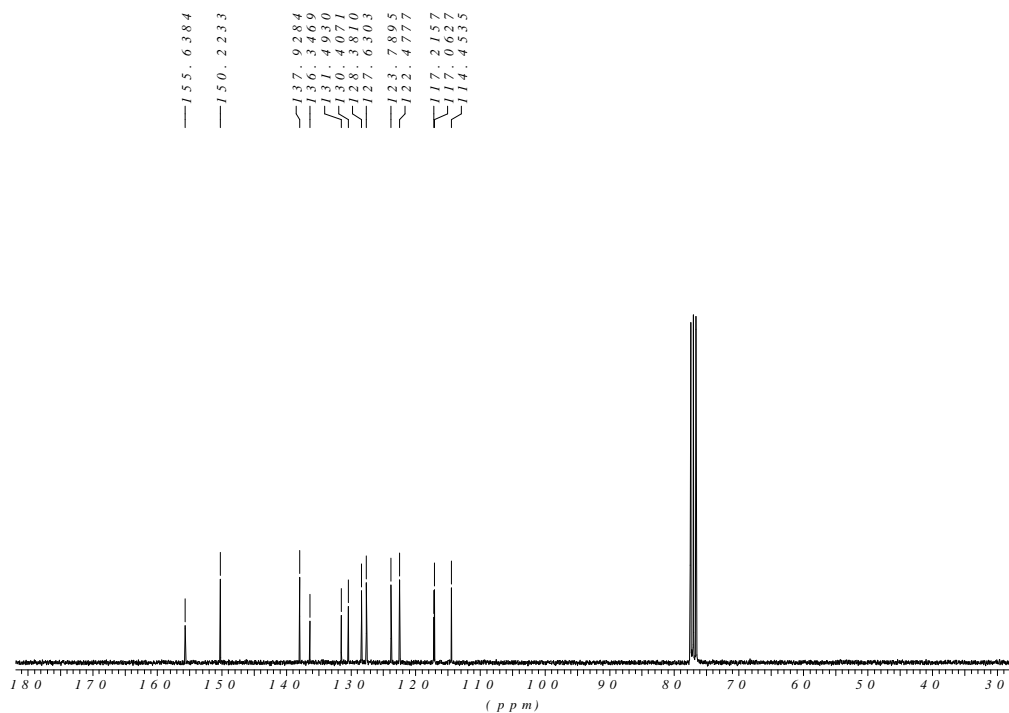
5,5'-Dibromo-*N,N'*-bis(2-pyridylsulfonyl)-2,2'-biindole (38)

^1H NMR (CDCl_3 , 300 MHz)

8.54
8.53
8.53
8.16
8.13
7.84
7.84
7.83
7.83
7.67
7.45
7.45
6.44

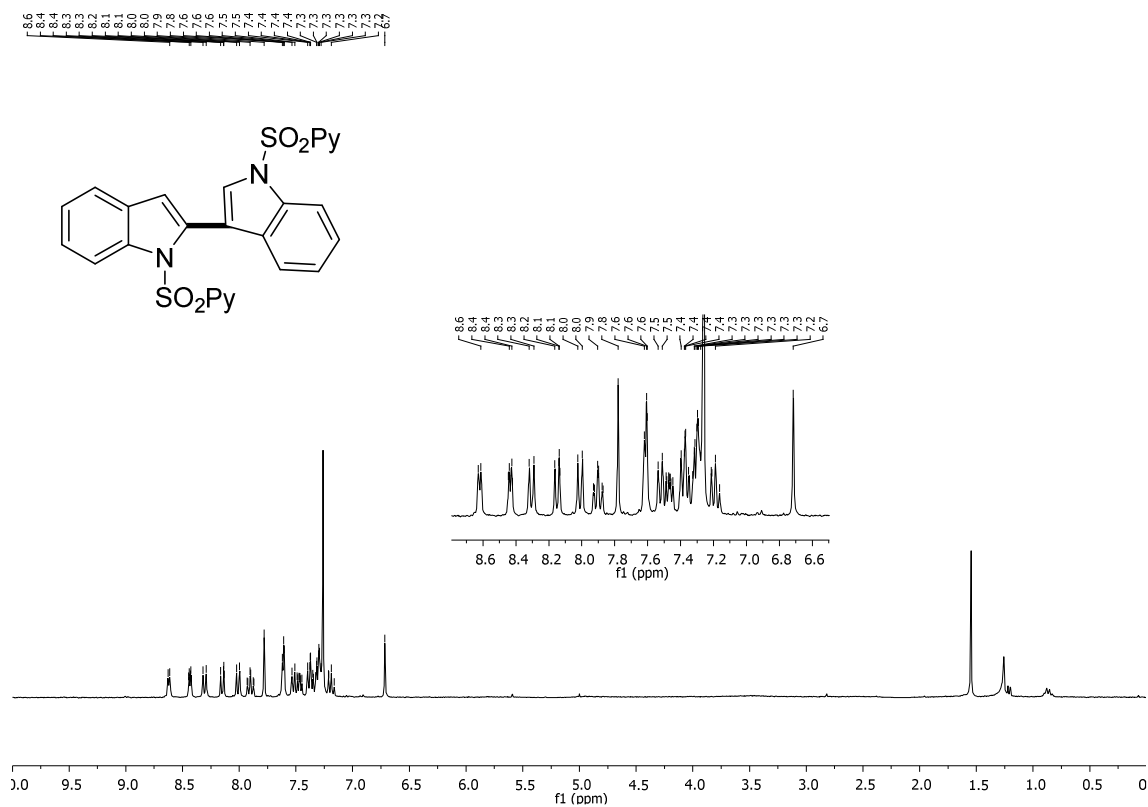


^{13}C NMR (CDCl_3 , 75 MHz)

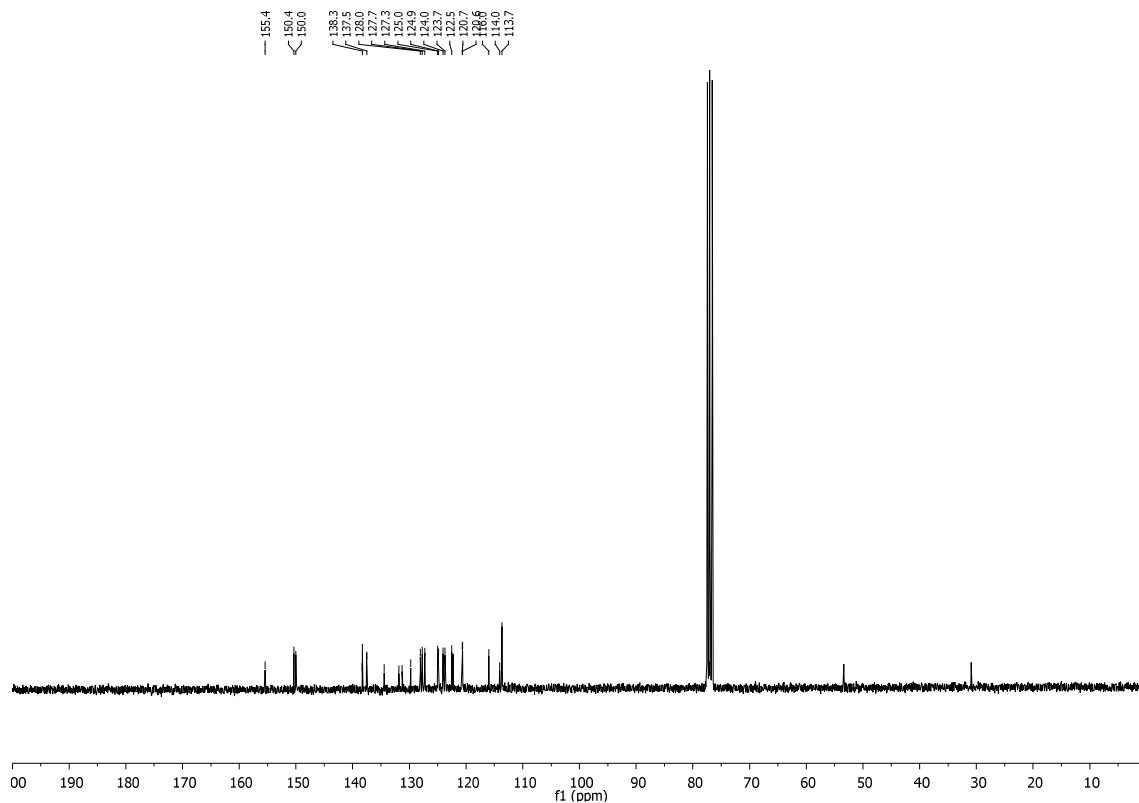


***N,N'*-Bis(2-pyridylsulfonyl)-2,3'-biindole (3)**

^1H NMR (CDCl_3 , 300 MHz)

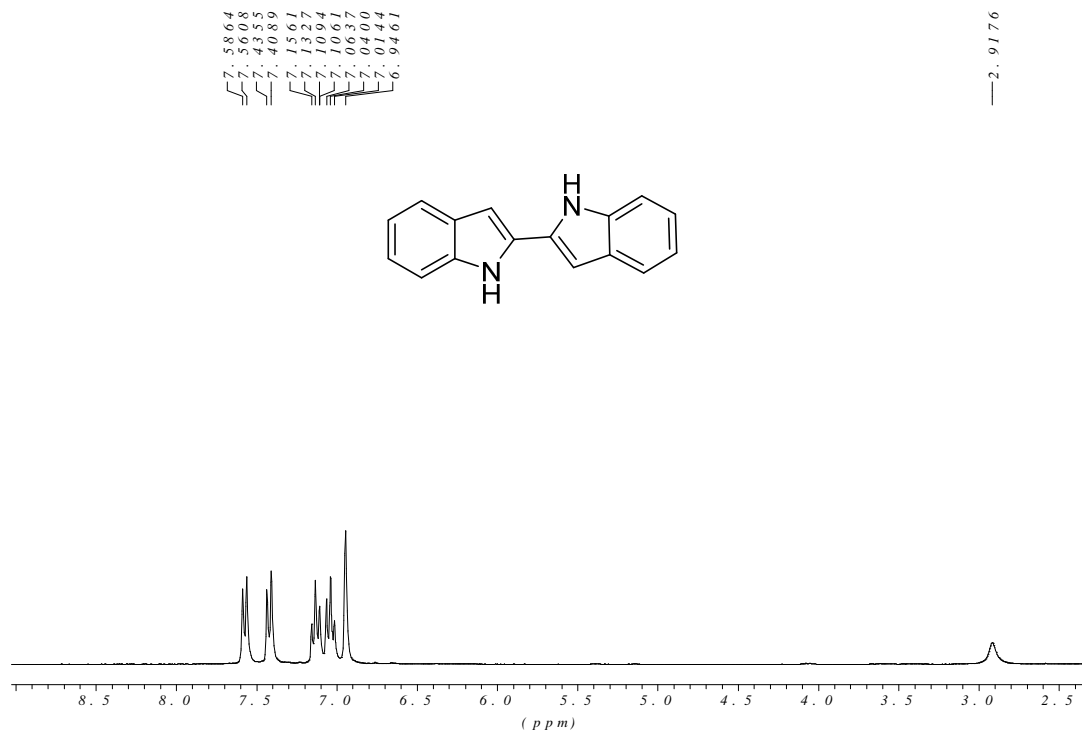


^{13}C NMR (CDCl_3 , 75 MHz)

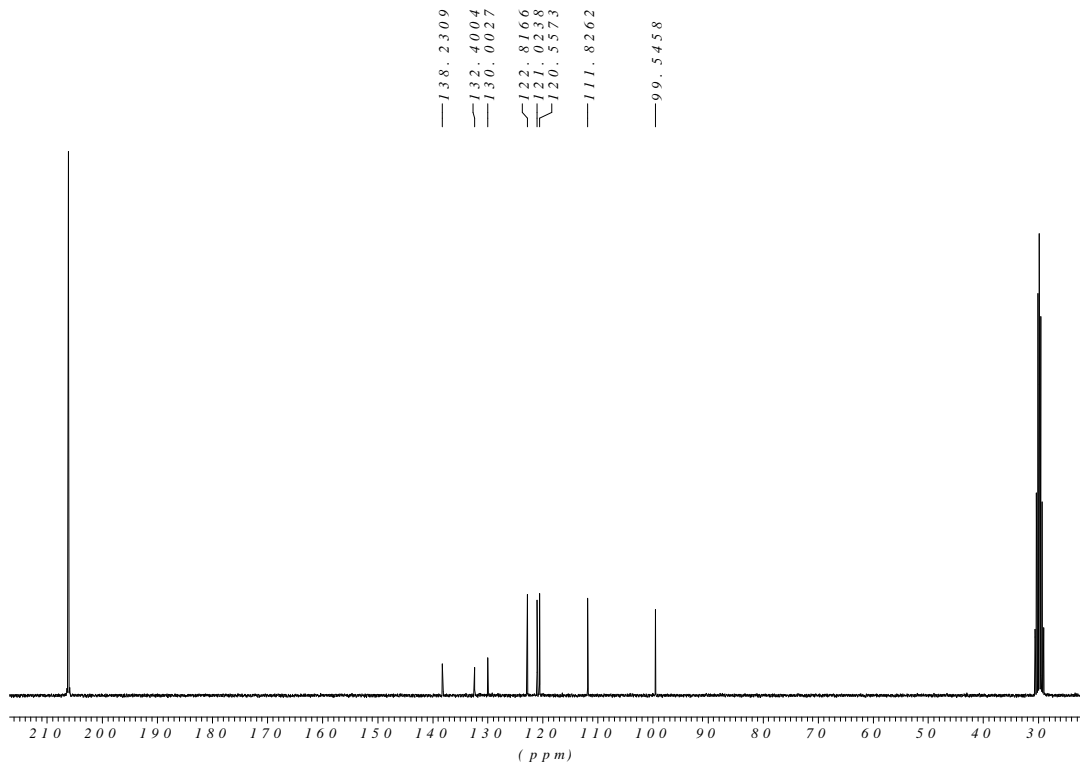


NH-2,2'-biindole (41)

¹H NMR (acetone-d₆, 300 MHz)



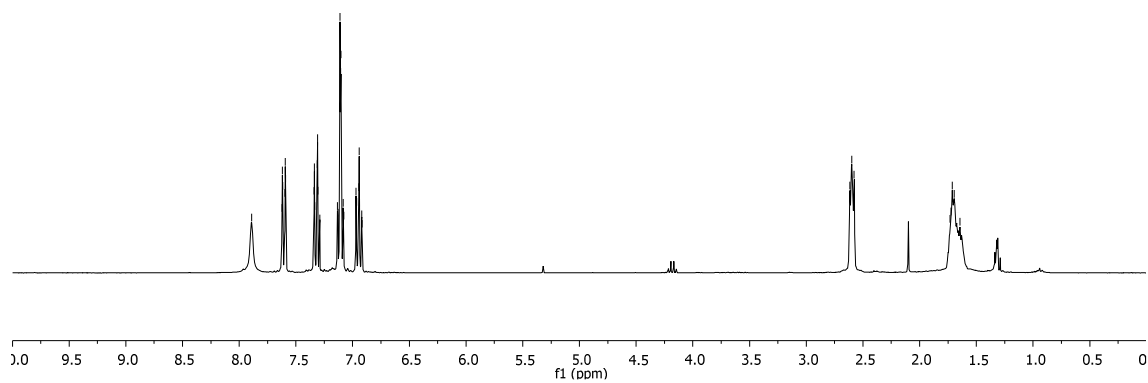
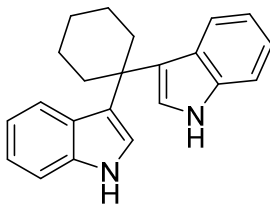
¹³C NMR (acetone-d₆, 75 MHz)



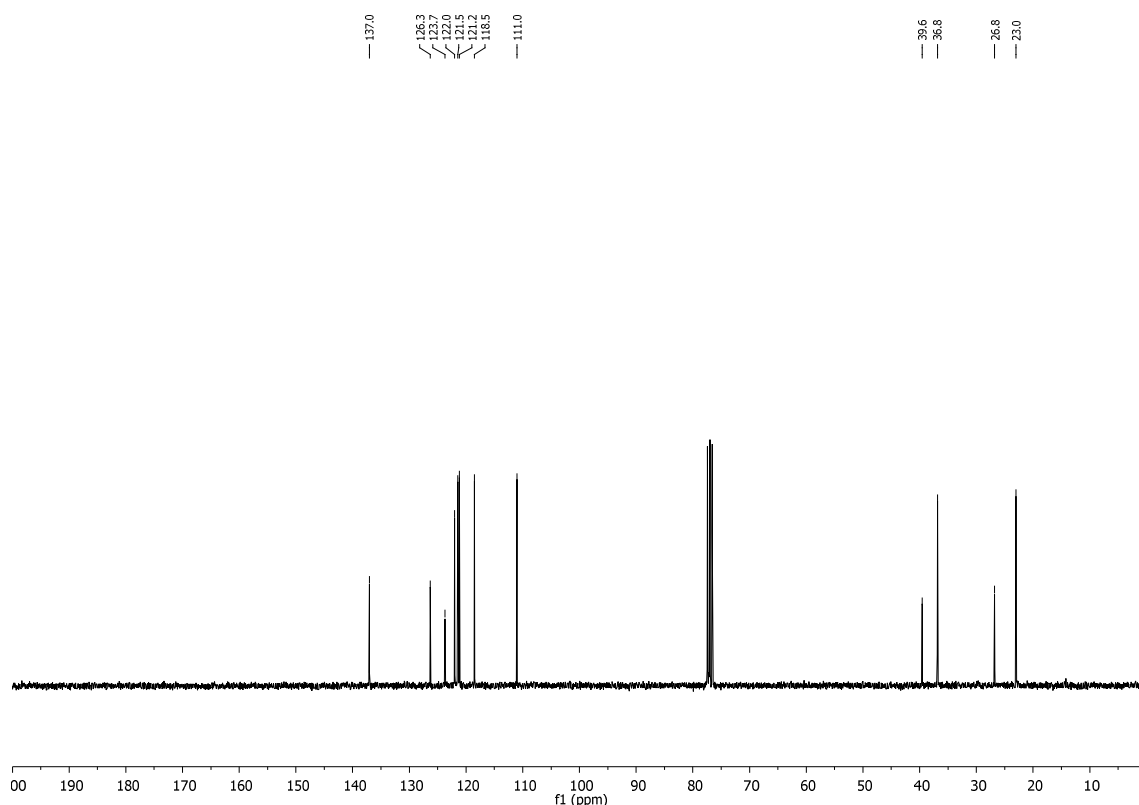
3,3'-(cyclohexane-1,1-diyl)bis(1H-indole) (42).

¹H NMR (CDCl₃, 300 MHz)

7.89, 7.62, 7.59, 7.58, 7.54, 7.33, 7.31, 7.31, 7.29, 7.29, 7.13, 7.11, 7.11, 7.10, 7.10, 7.08, 7.08, 6.97, 6.97, 6.94, 6.94, 6.92, 6.92, 2.62, 2.60, 2.58, 1.73, 1.72, 1.71, 1.70, 1.65

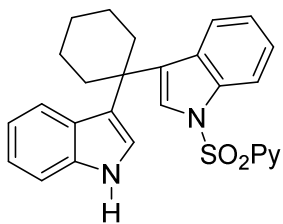
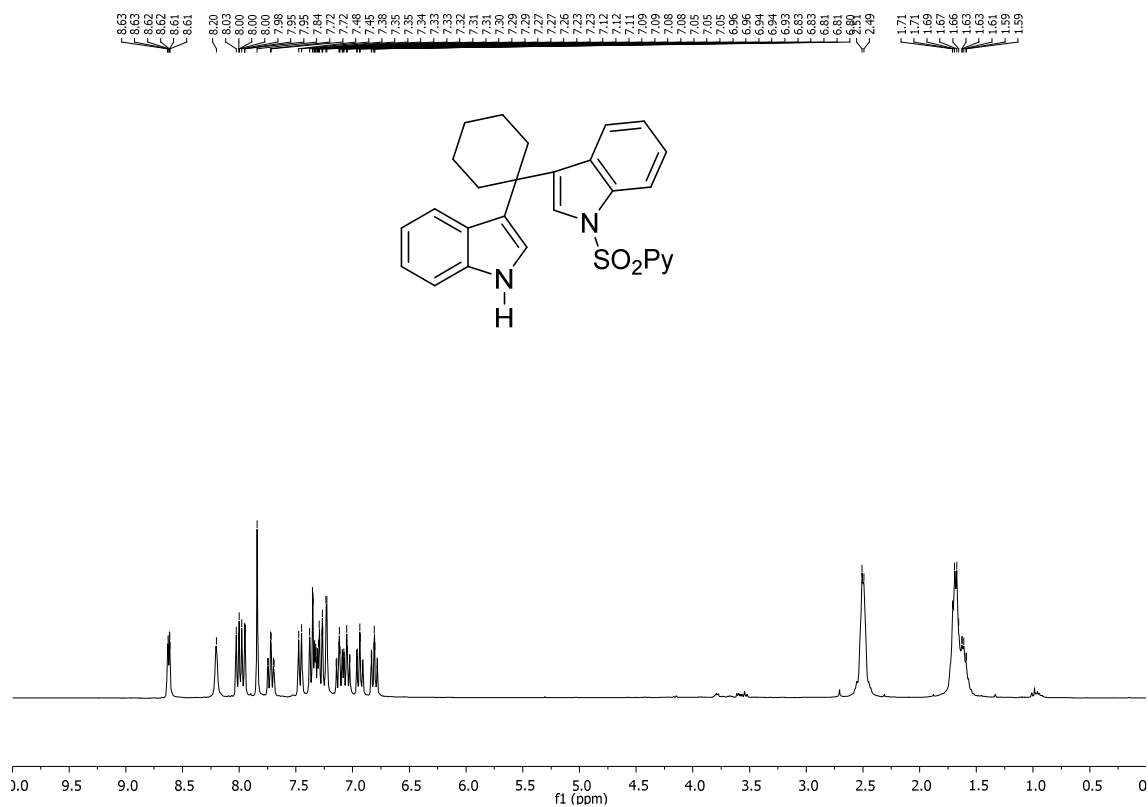


^{13}C NMR (CDCl_3 , 75 MHz)

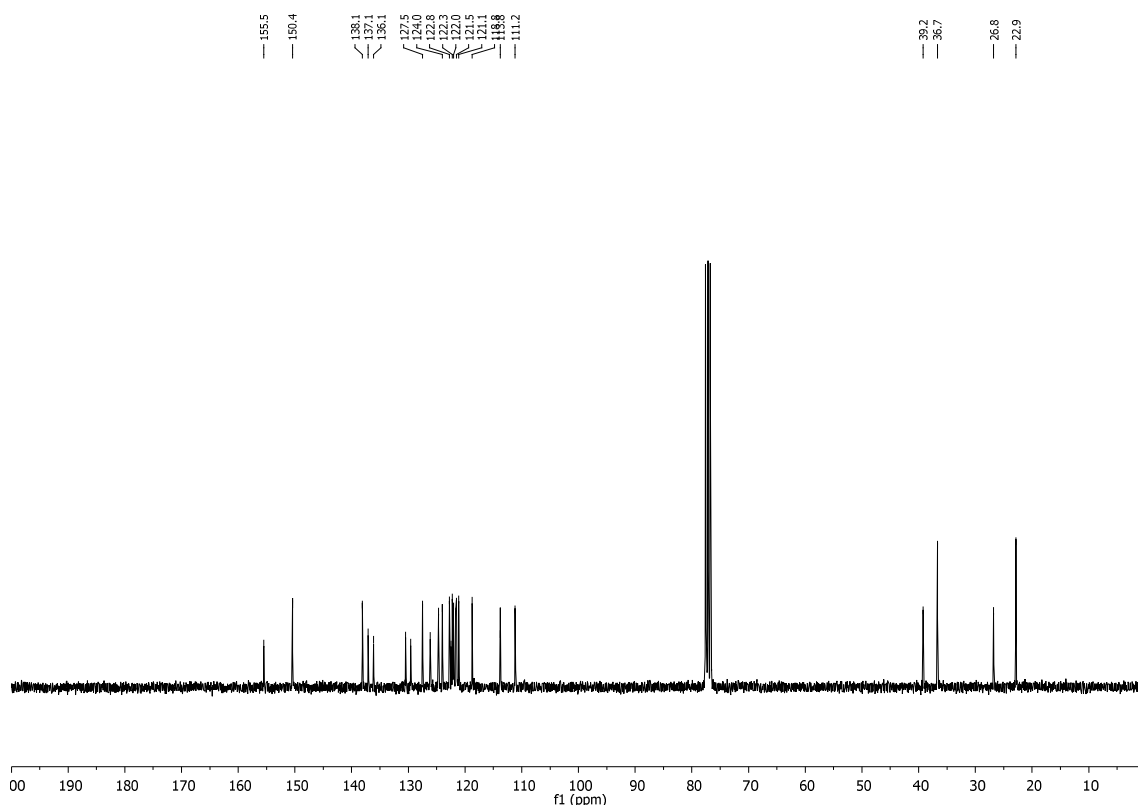


1-(1*H*-Indol-3-yl)-1-(*N*-(2-pyridyl)sulfonyl-1*H*-indole-3-yl)cyclohexane (44)

^1H NMR (CDCl_3 , 300 MHz)

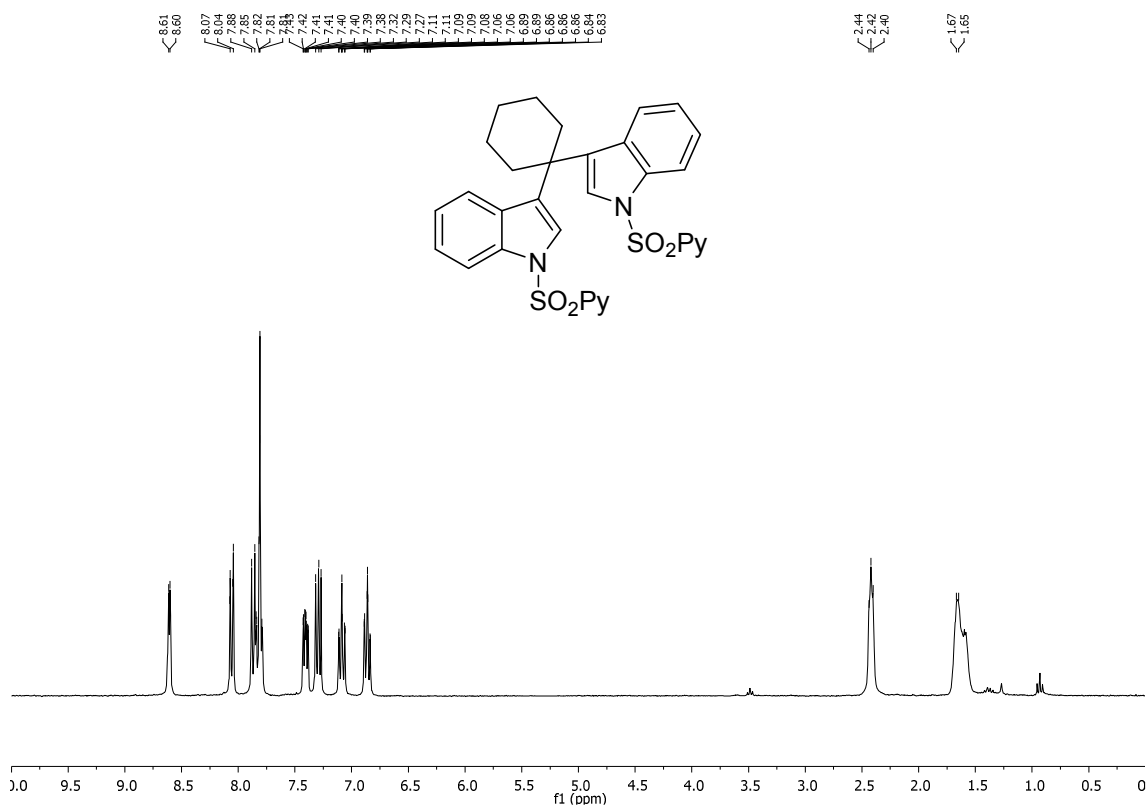


^{13}C NMR (CDCl_3 , 75 MHz)

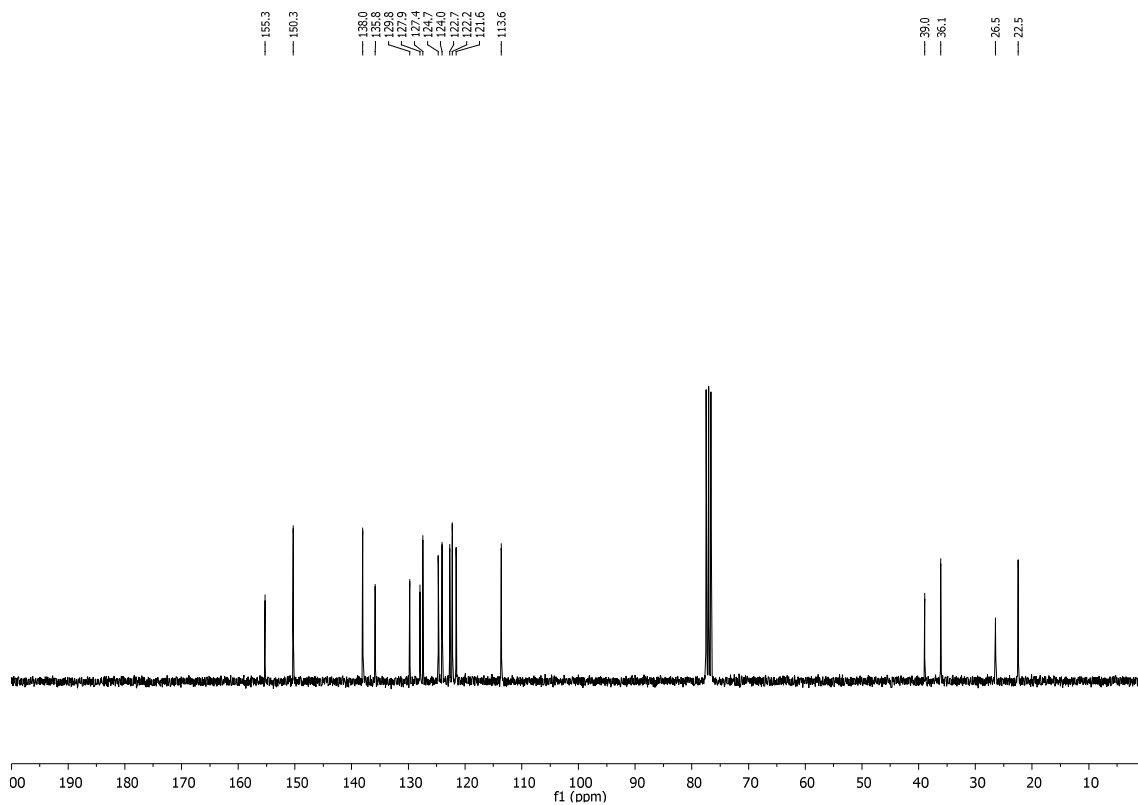


Bis[*N*-(2-pyridyl)sulfonyl-1*H*-indole-3-yl]cyclohexane (43)

^1H NMR (CDCl_3 , 300 MHz)

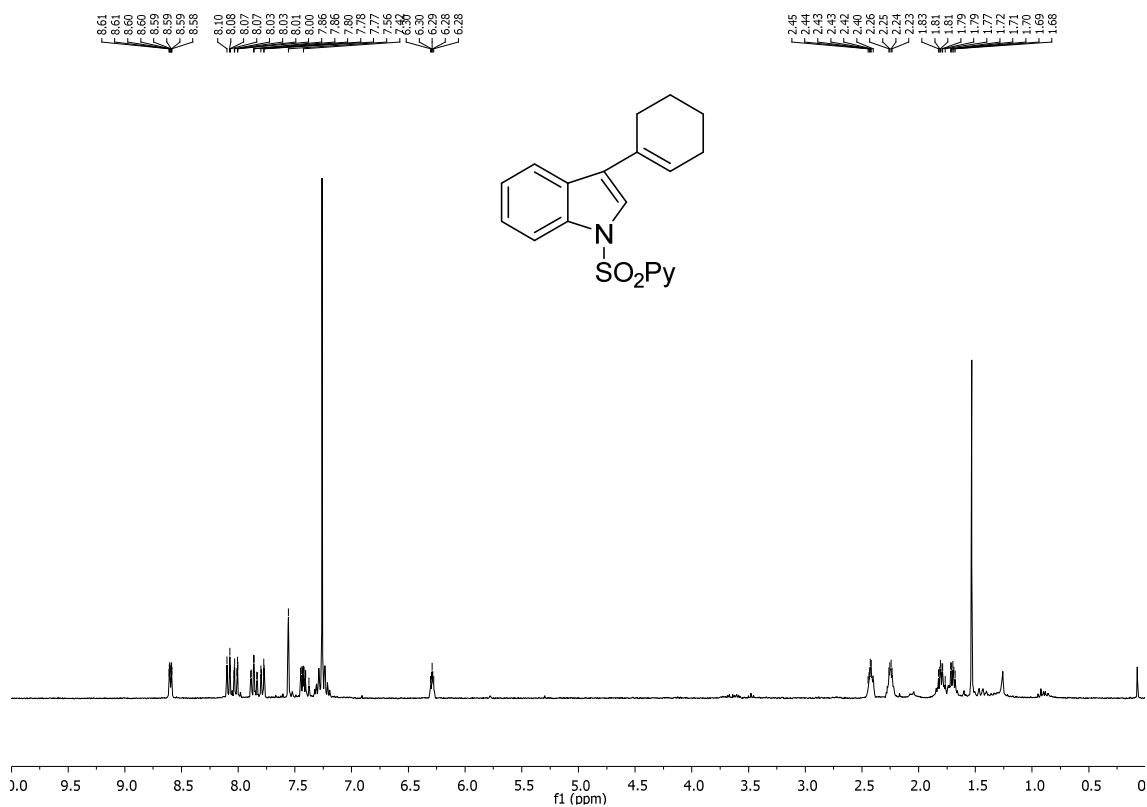


^{13}C NMR (CDCl_3 , 75 MHz)



3-(Cyclohex-1-enyl)-N-(2-pyridylsulfonyl)indole (46)

^1H NMR (CDCl_3 , 300 MHz)



3-phenyl-*N*-(2-pyridylsulfonyl)indole (47)

¹H NMR (CDCl₃, 300 MHz)

