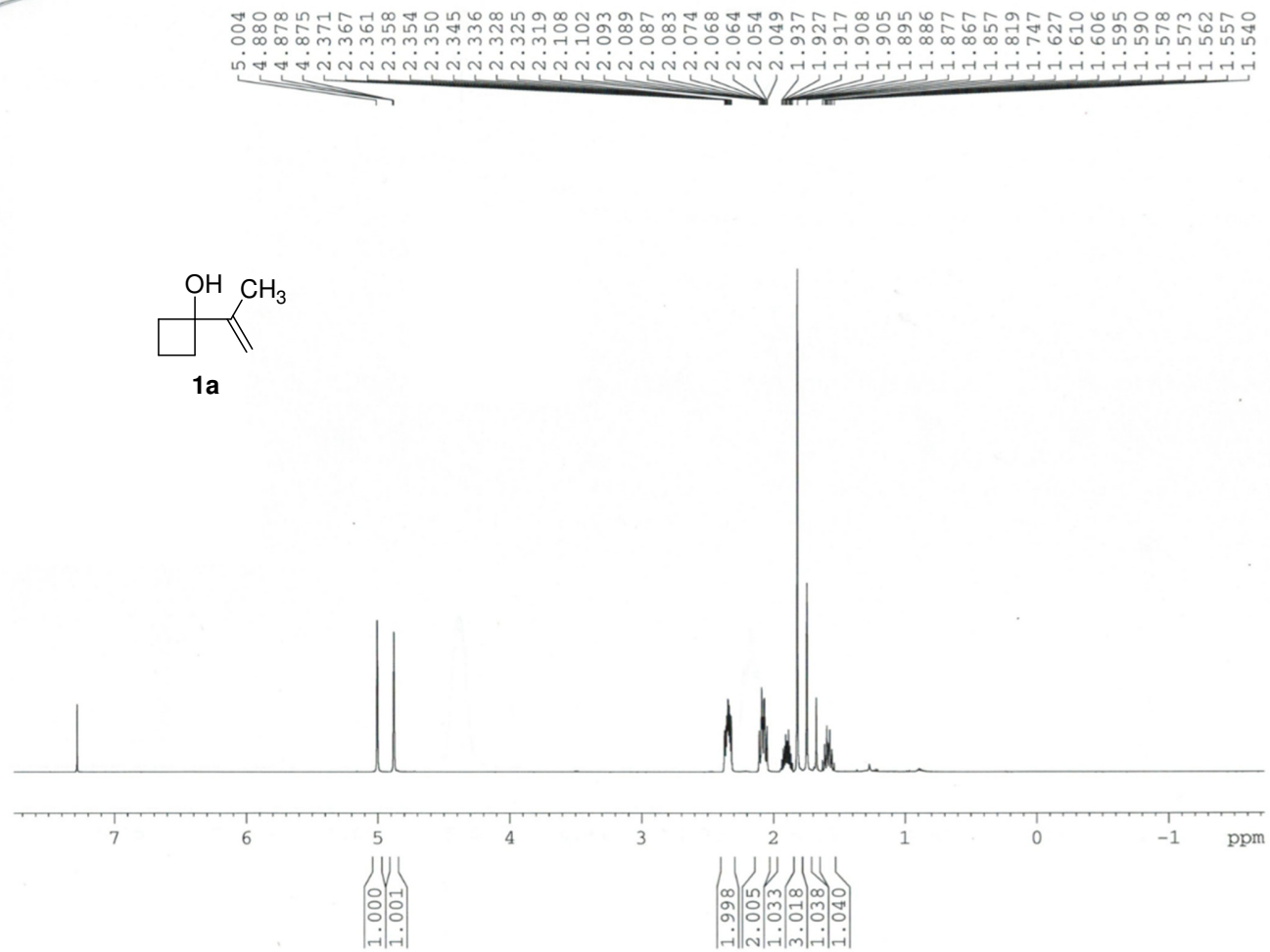
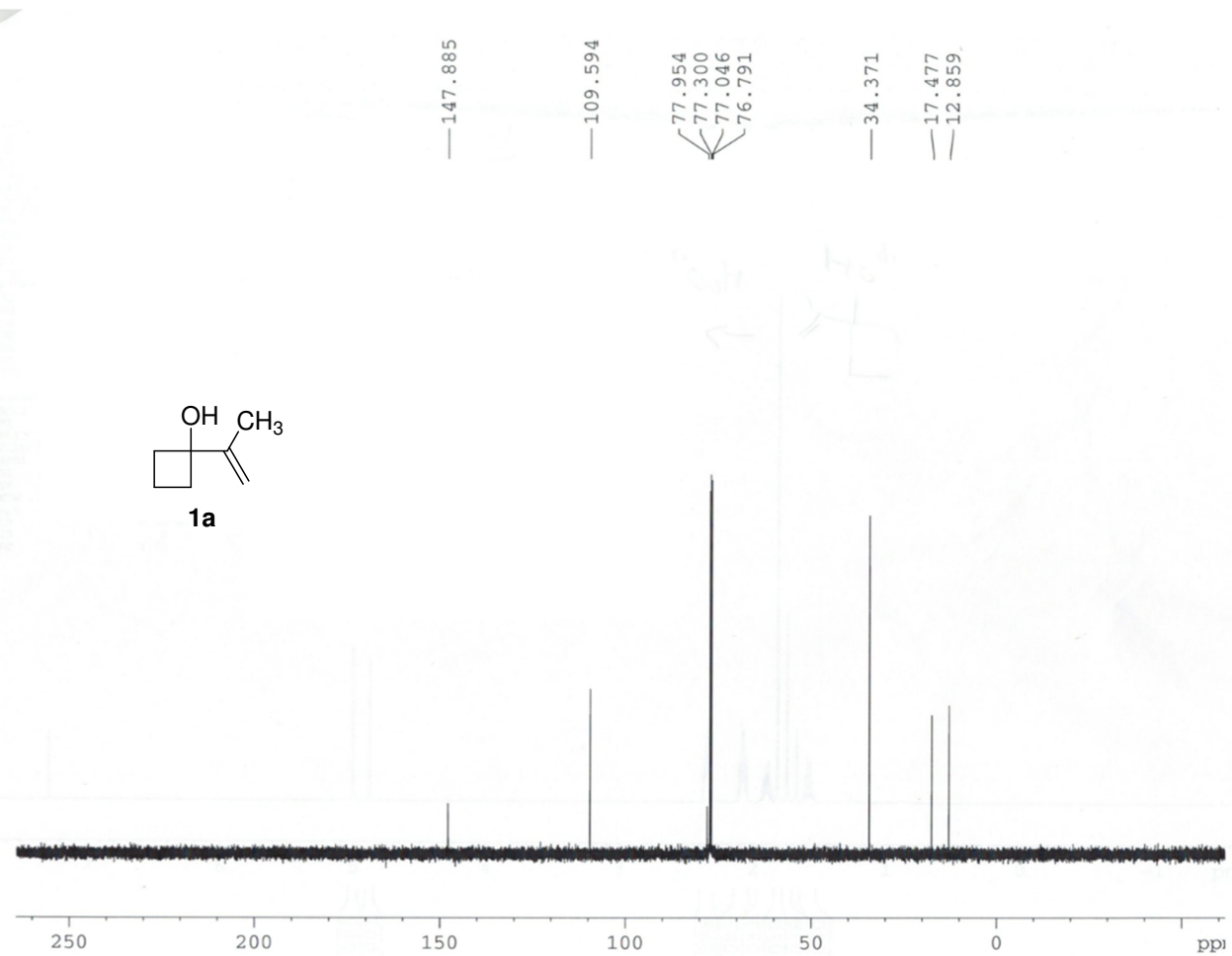


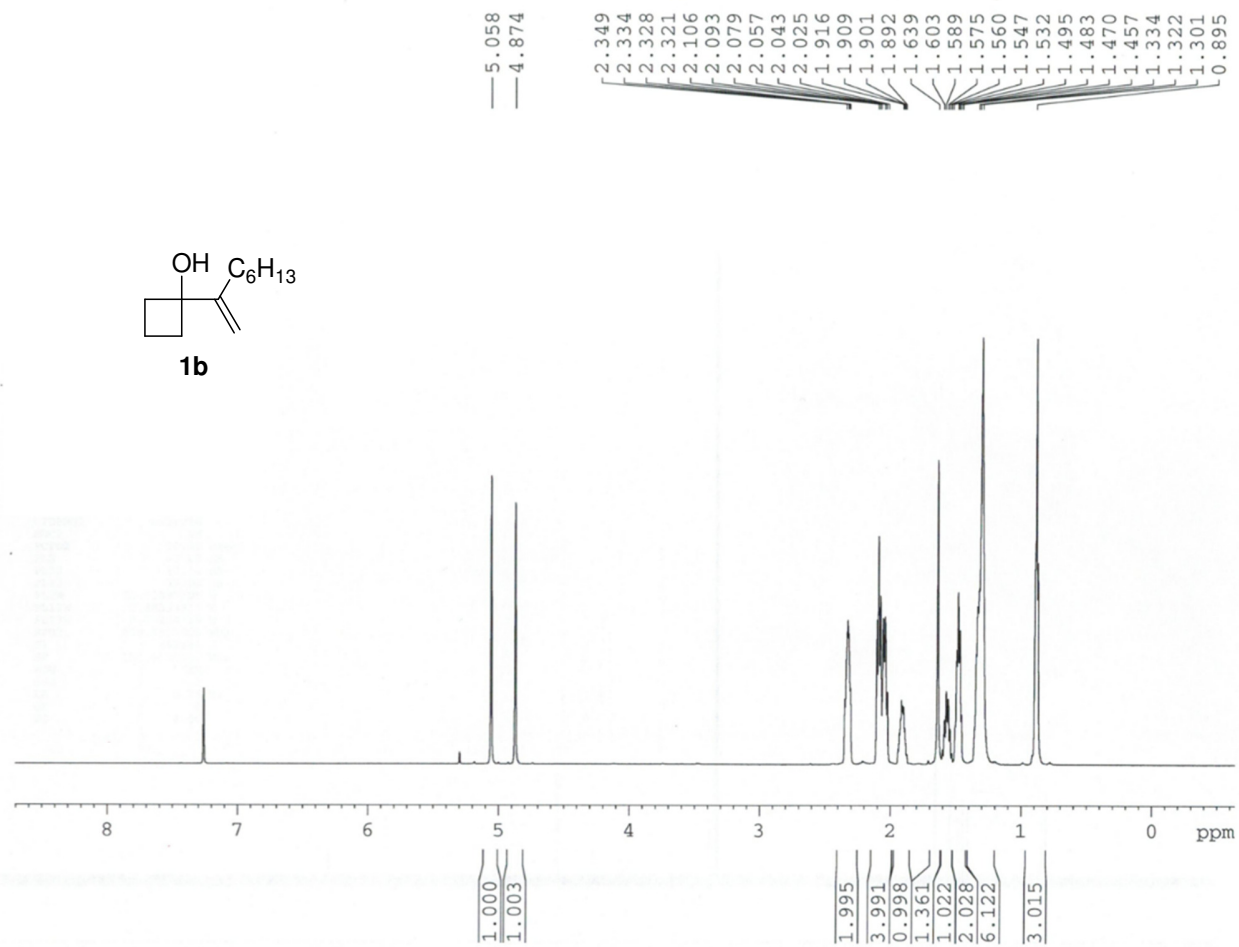
¹H NMR spectra of compound **1a**



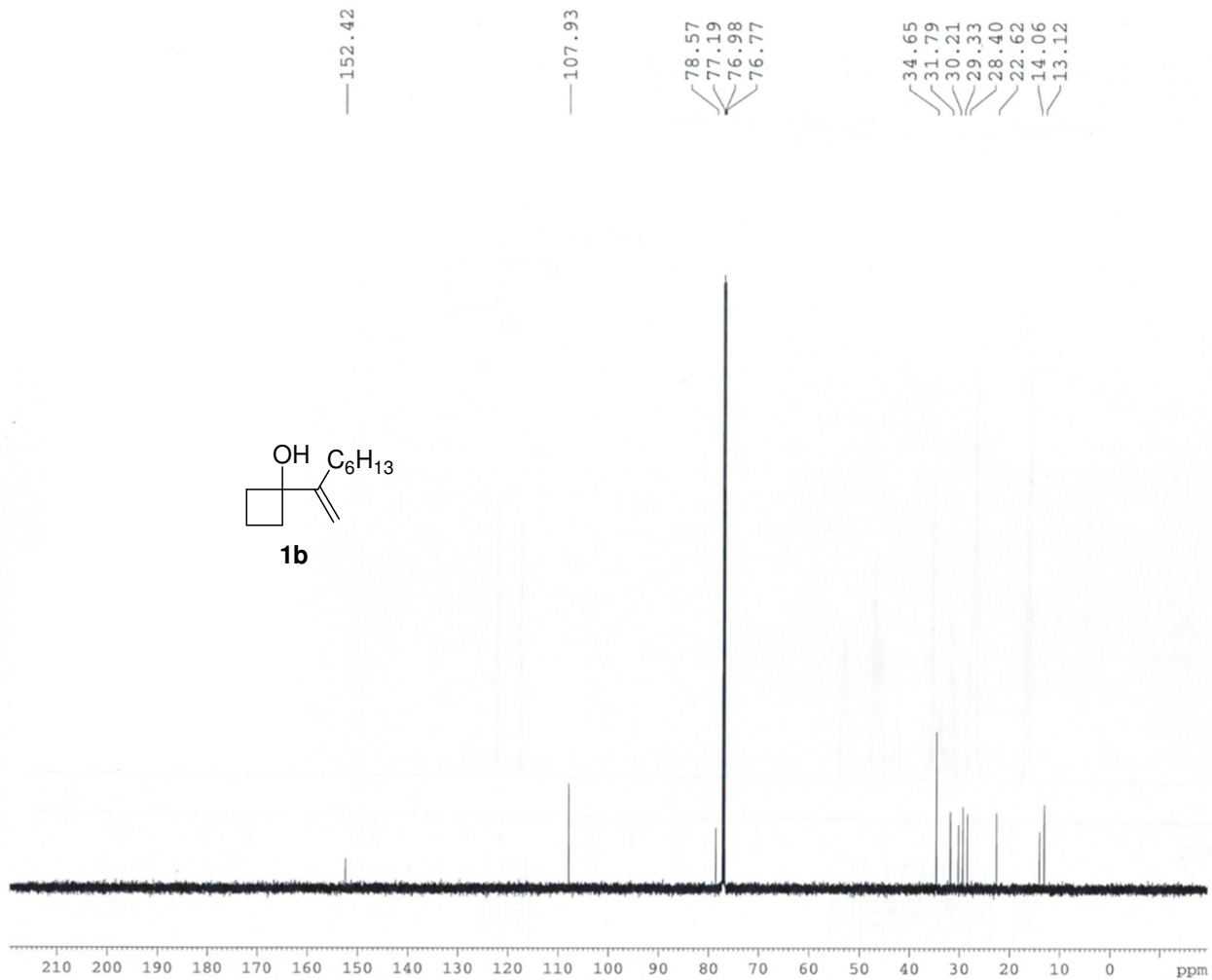
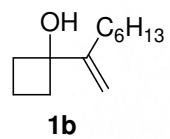
^{13}C NMR spectra of compound **1a**



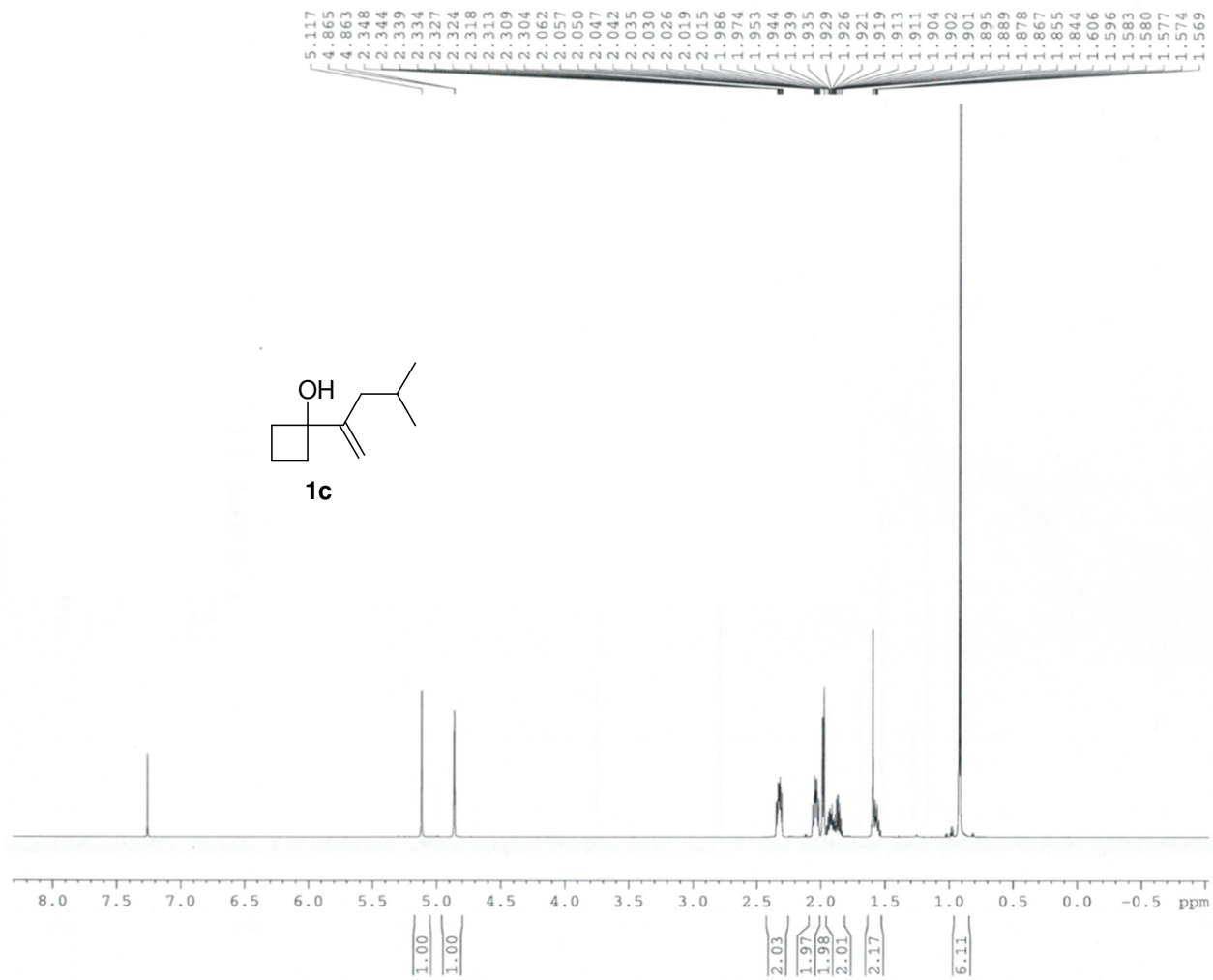
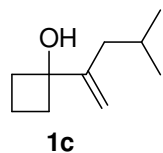
¹H NMR spectra of compound **1b**



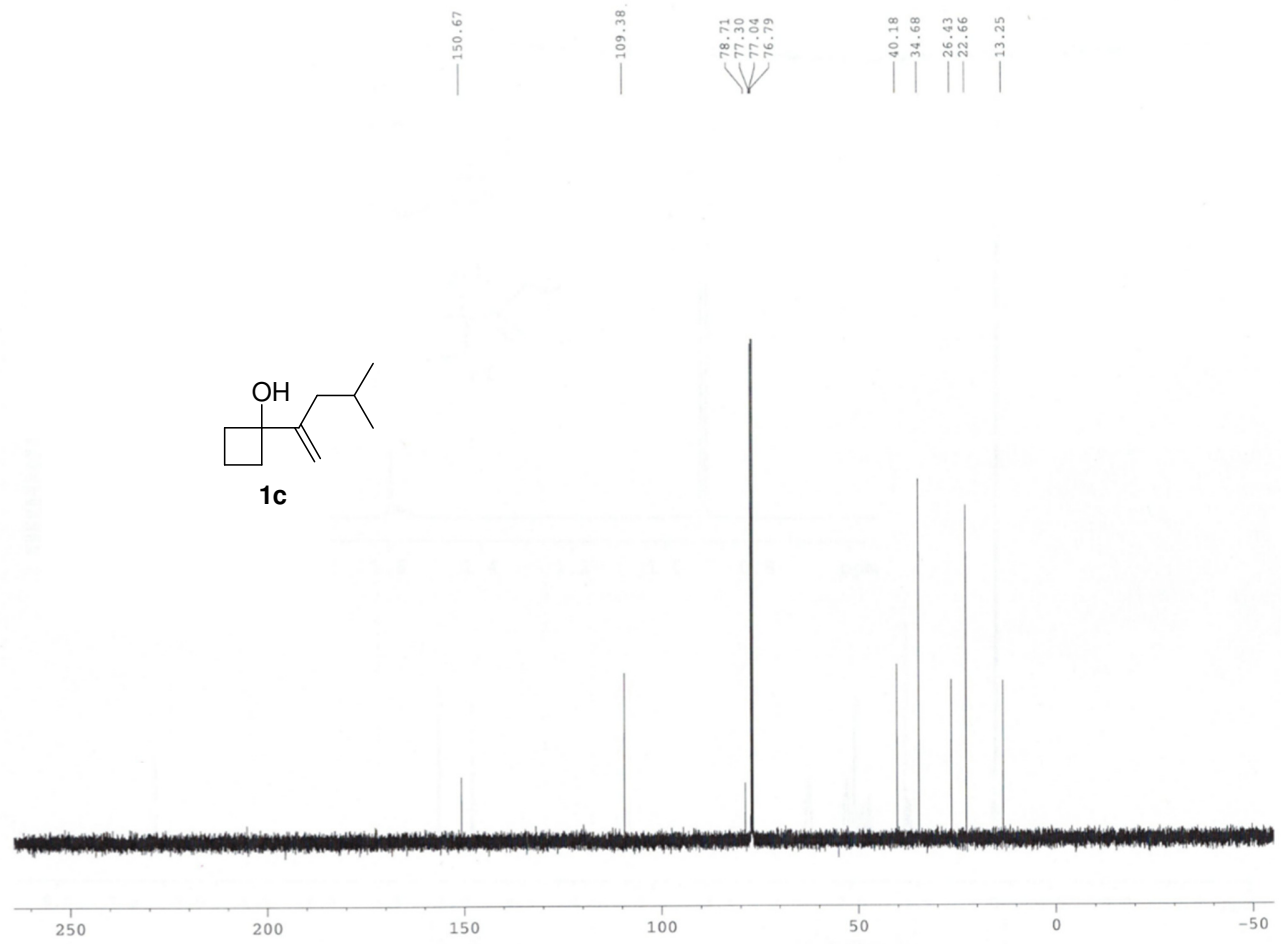
¹³C NMR spectra of compound **1b**



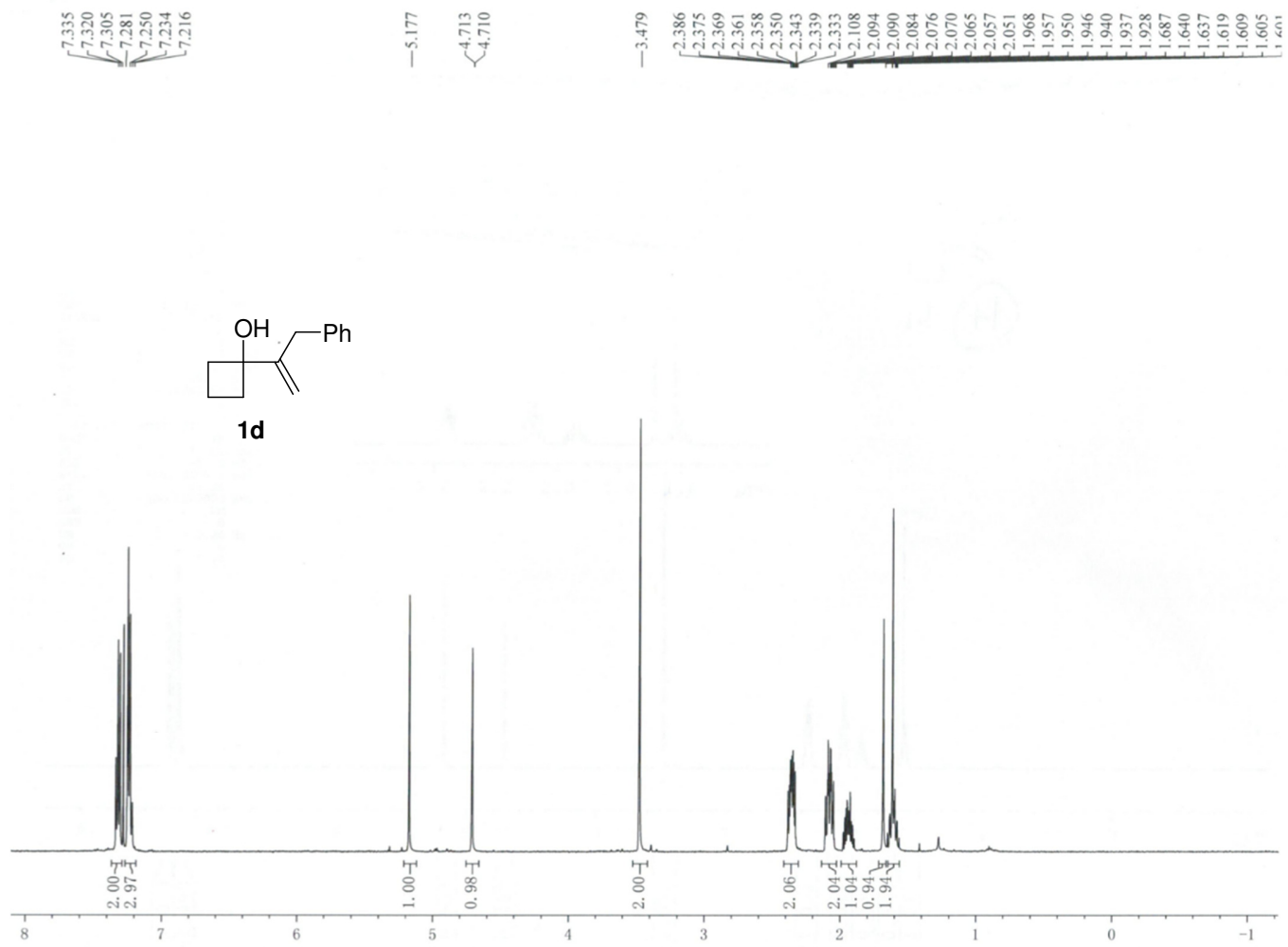
¹H NMR spectra of compound **1c**



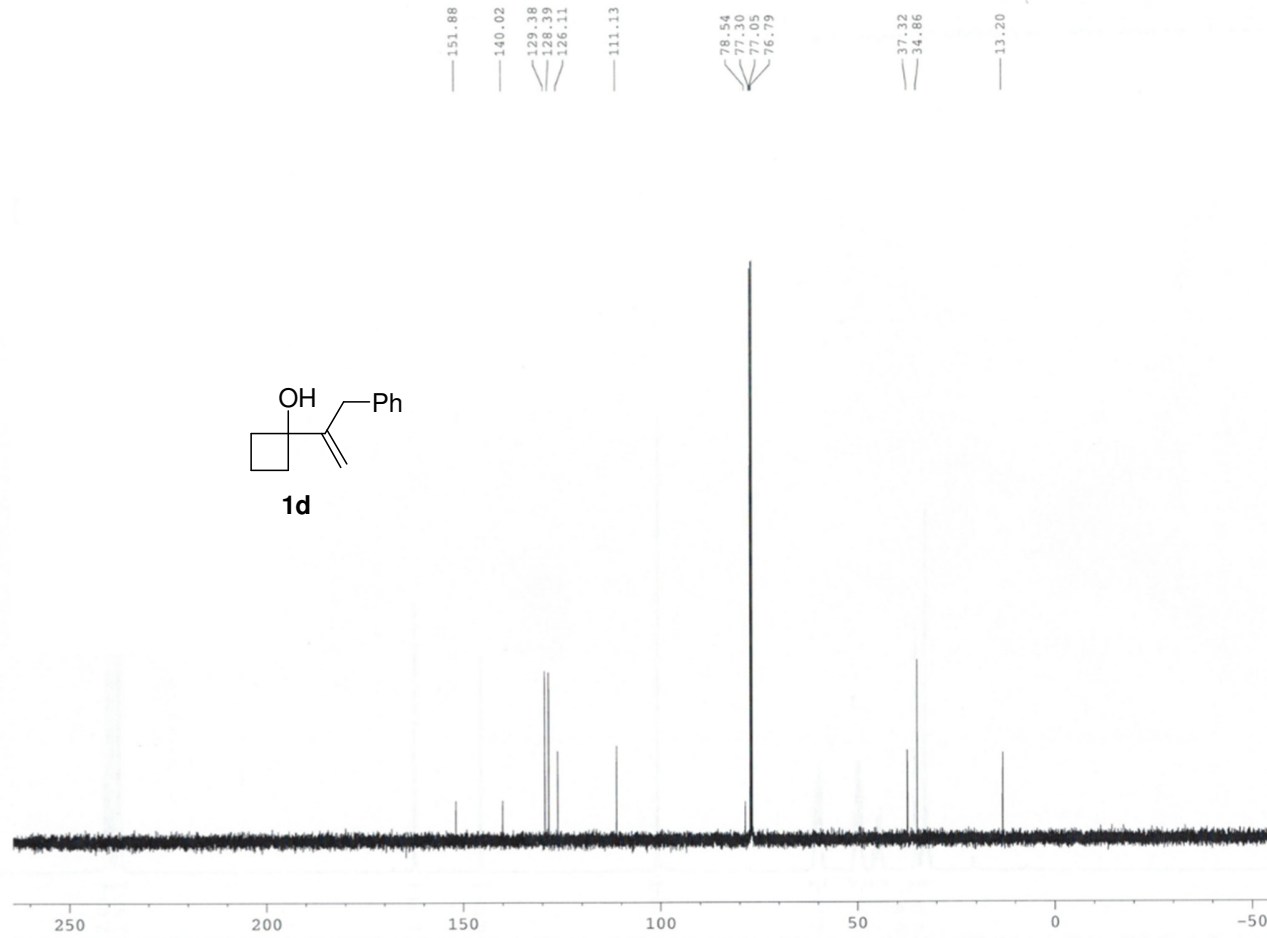
¹³C NMR spectra of compound **1c**



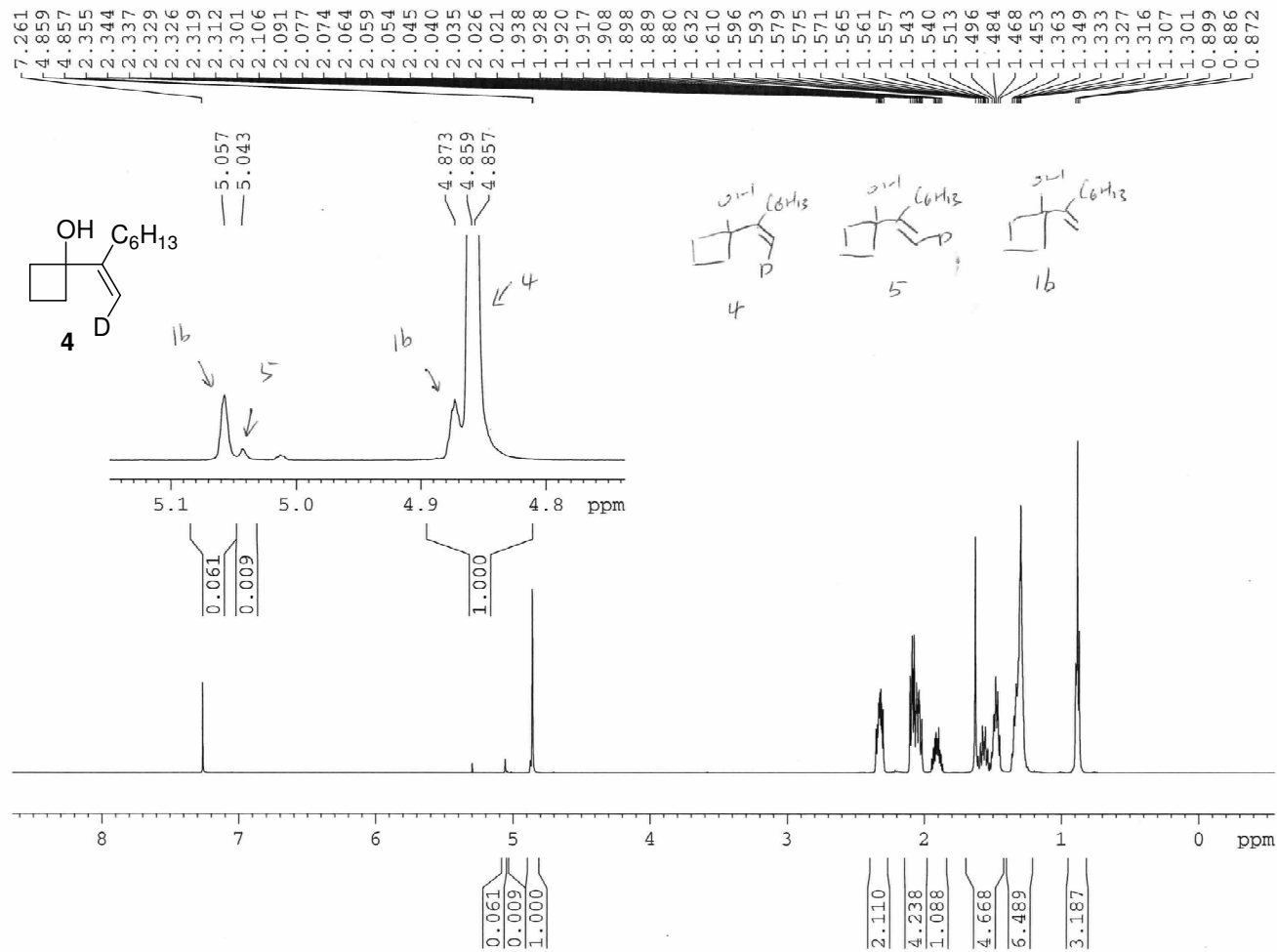
¹H NMR spectra of compound **1d**



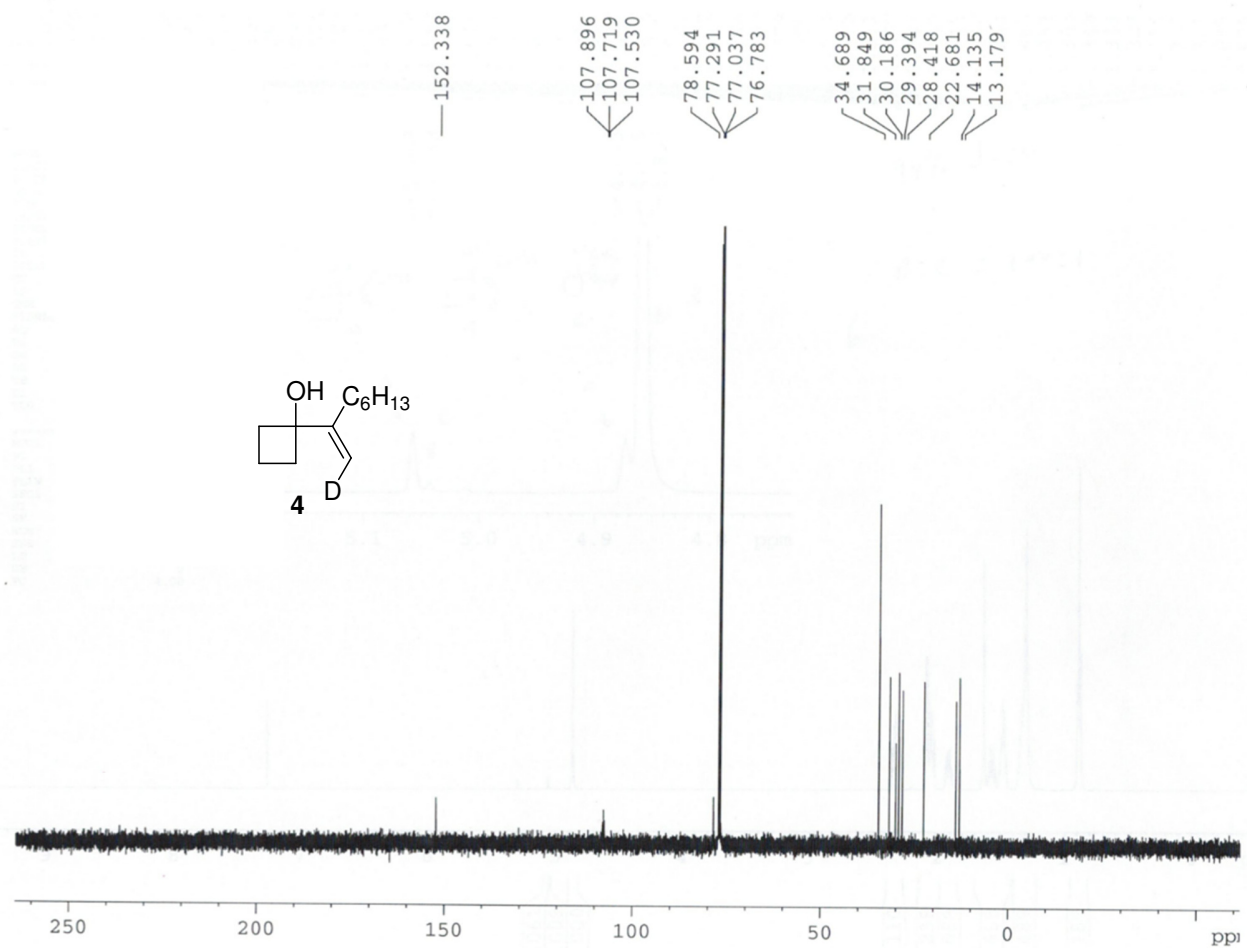
¹³C NMR spectra of compound **1d**



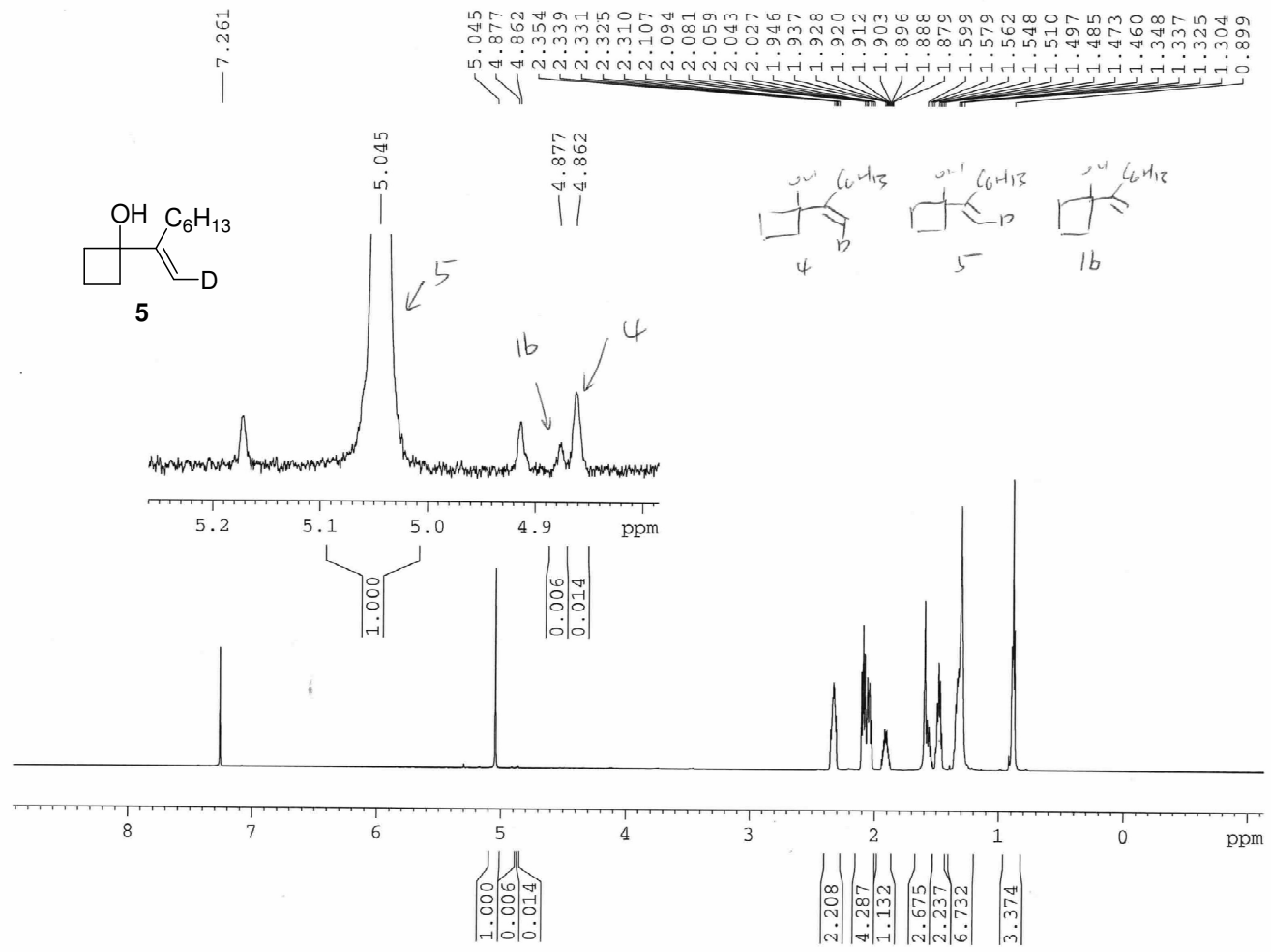
¹H NMR spectra of compound 4



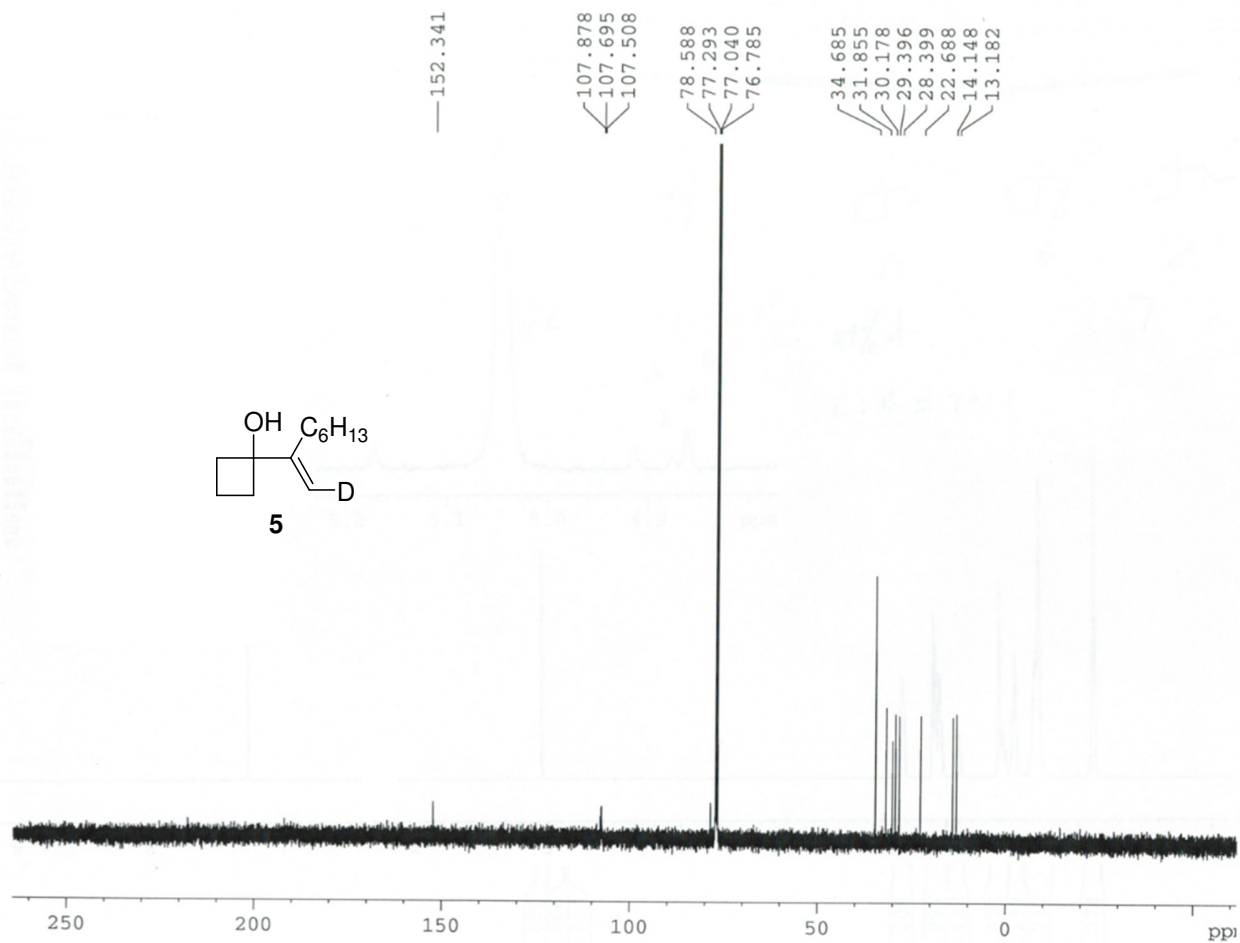
¹³C NMR spectra of compound **4**



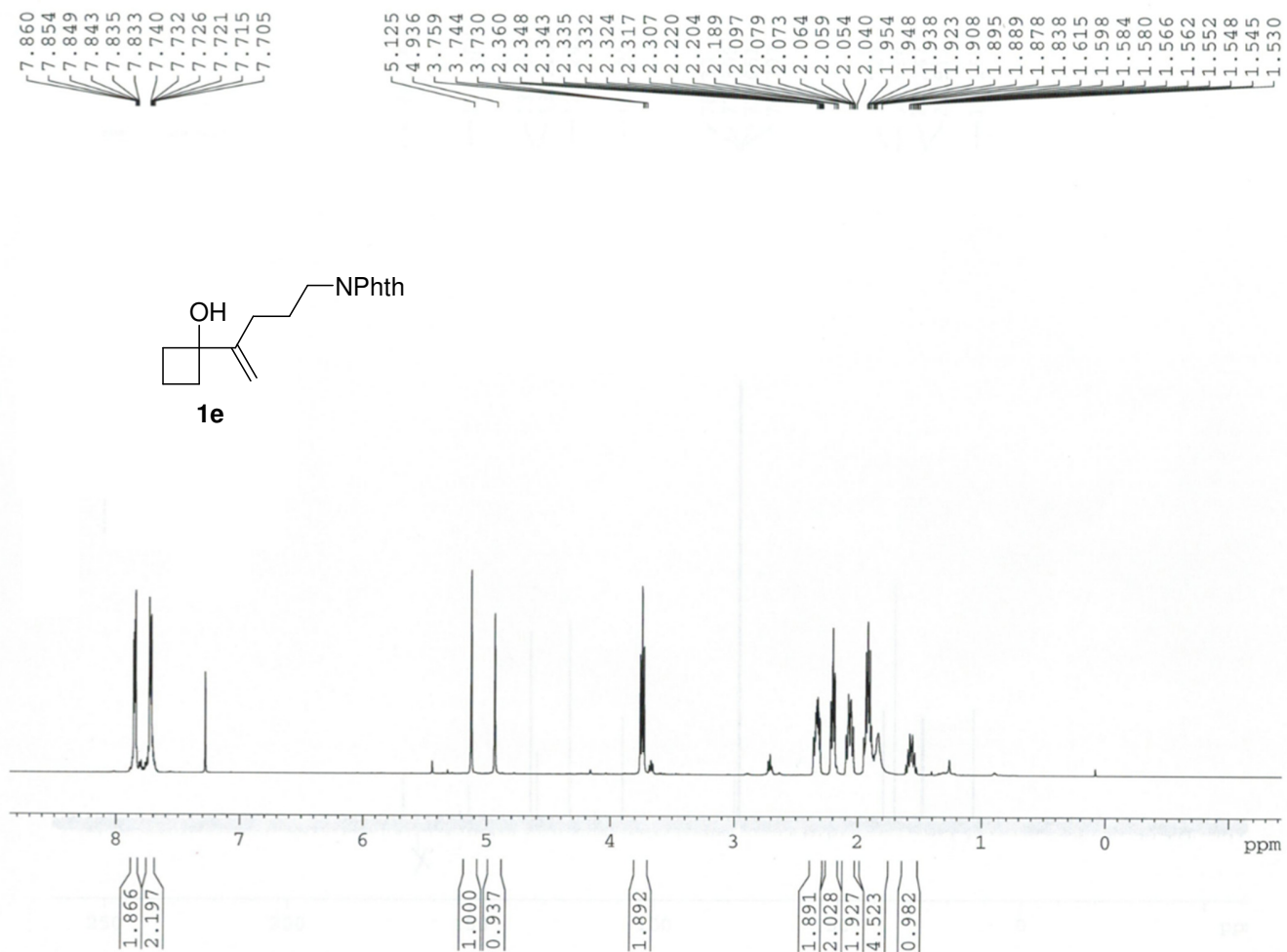
¹H NMR spectra of compound 5



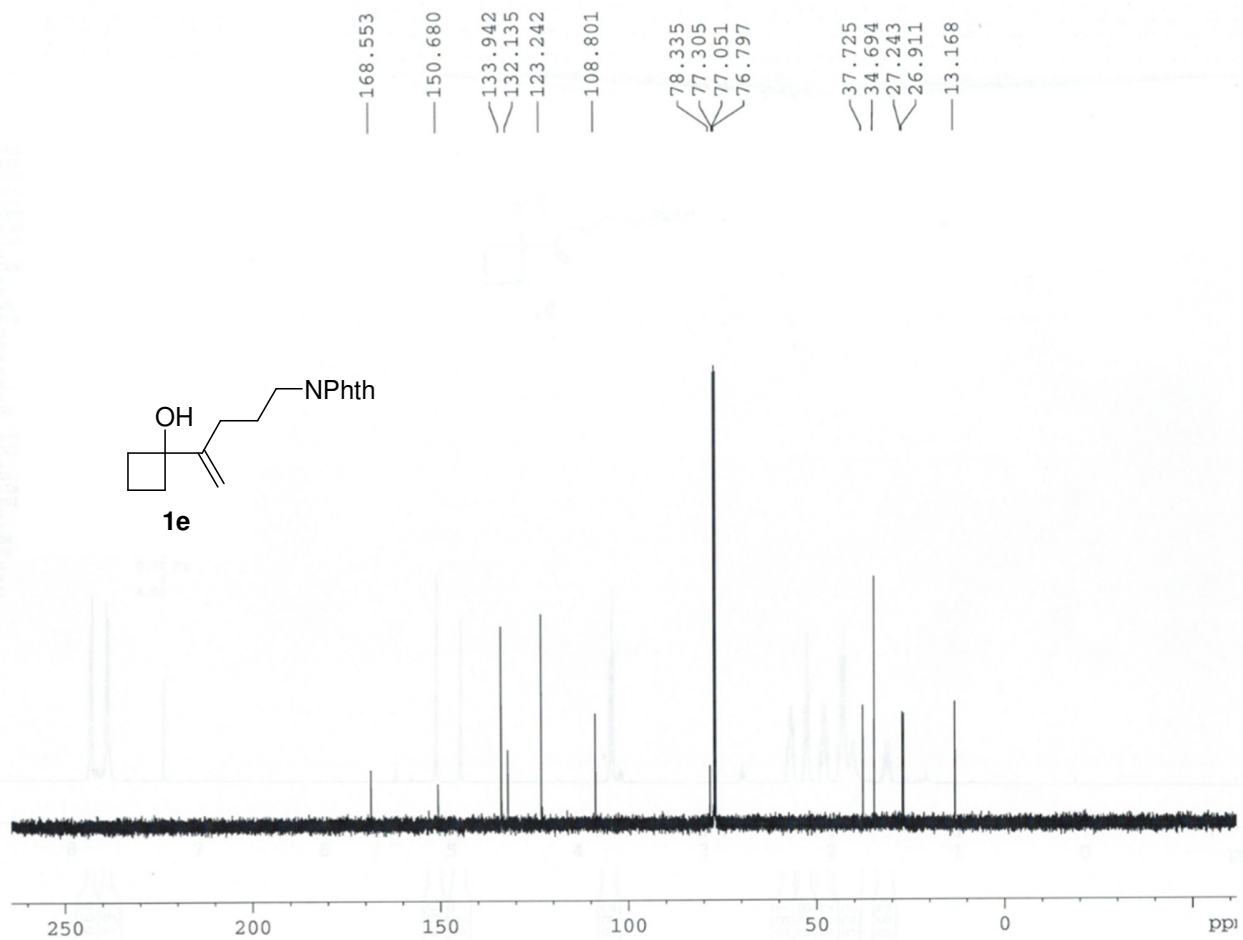
^{13}C NMR spectra of compound 5



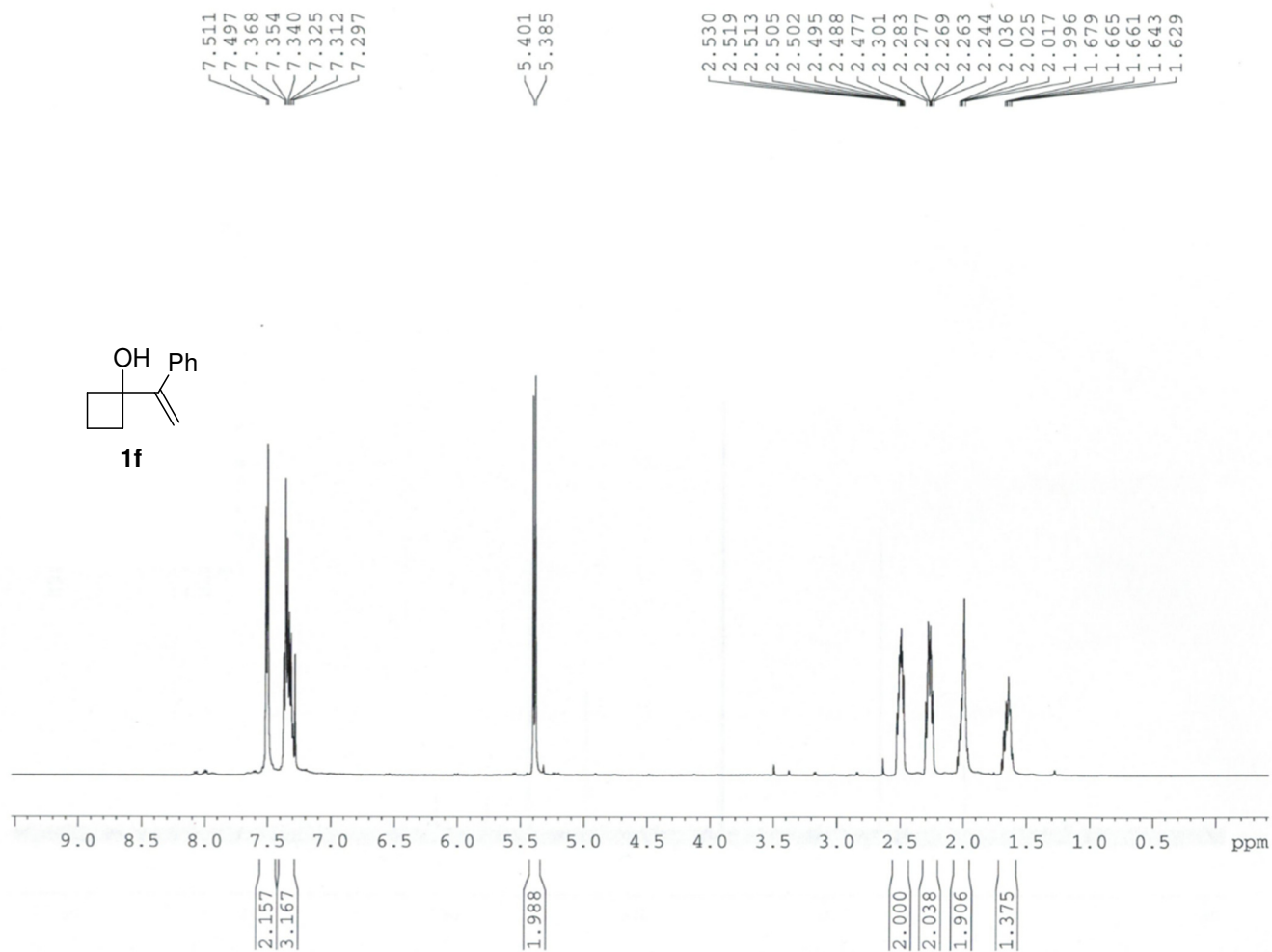
¹H NMR spectra of compound **1e**



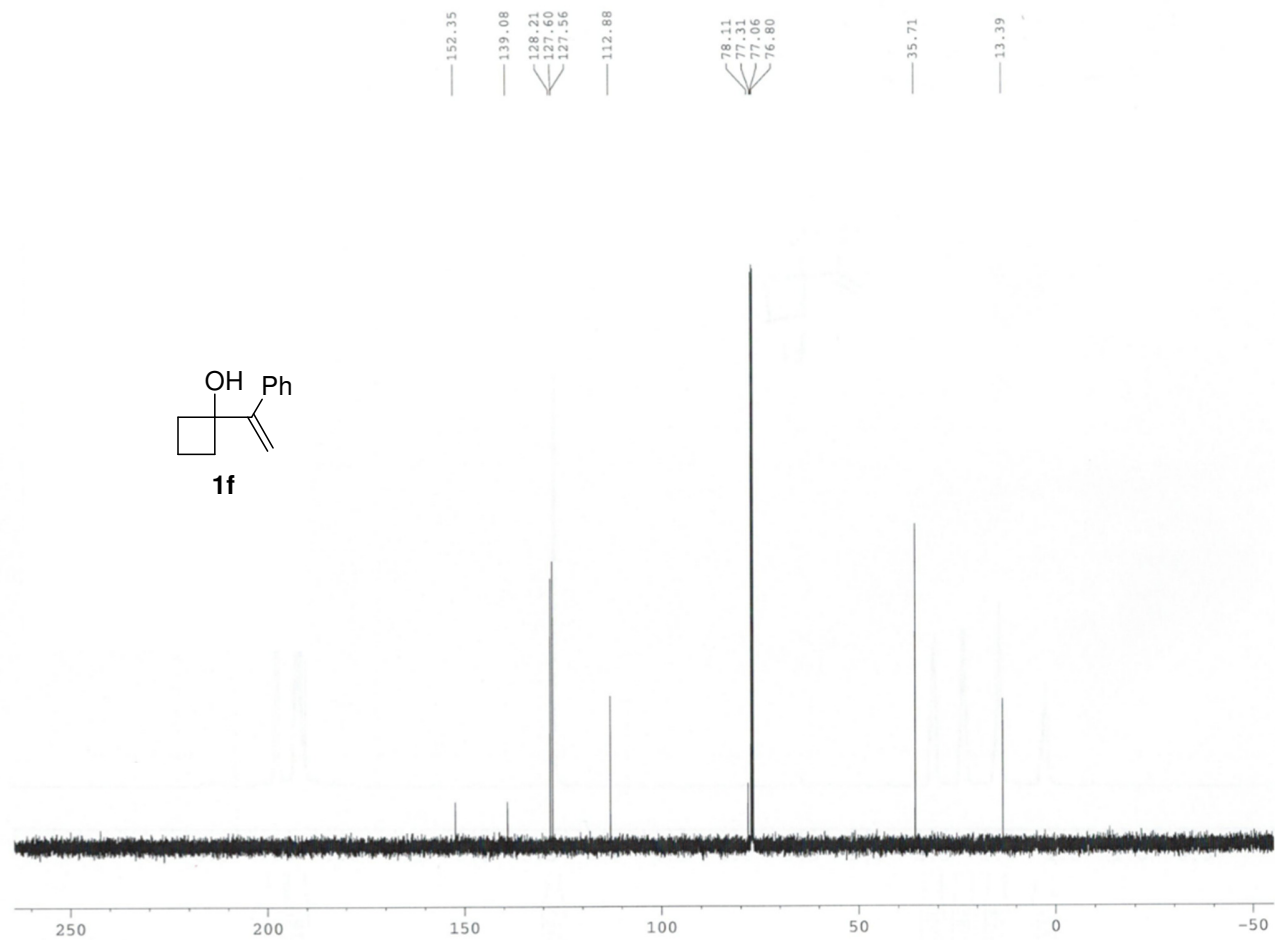
¹³C NMR spectra of compound **1e**



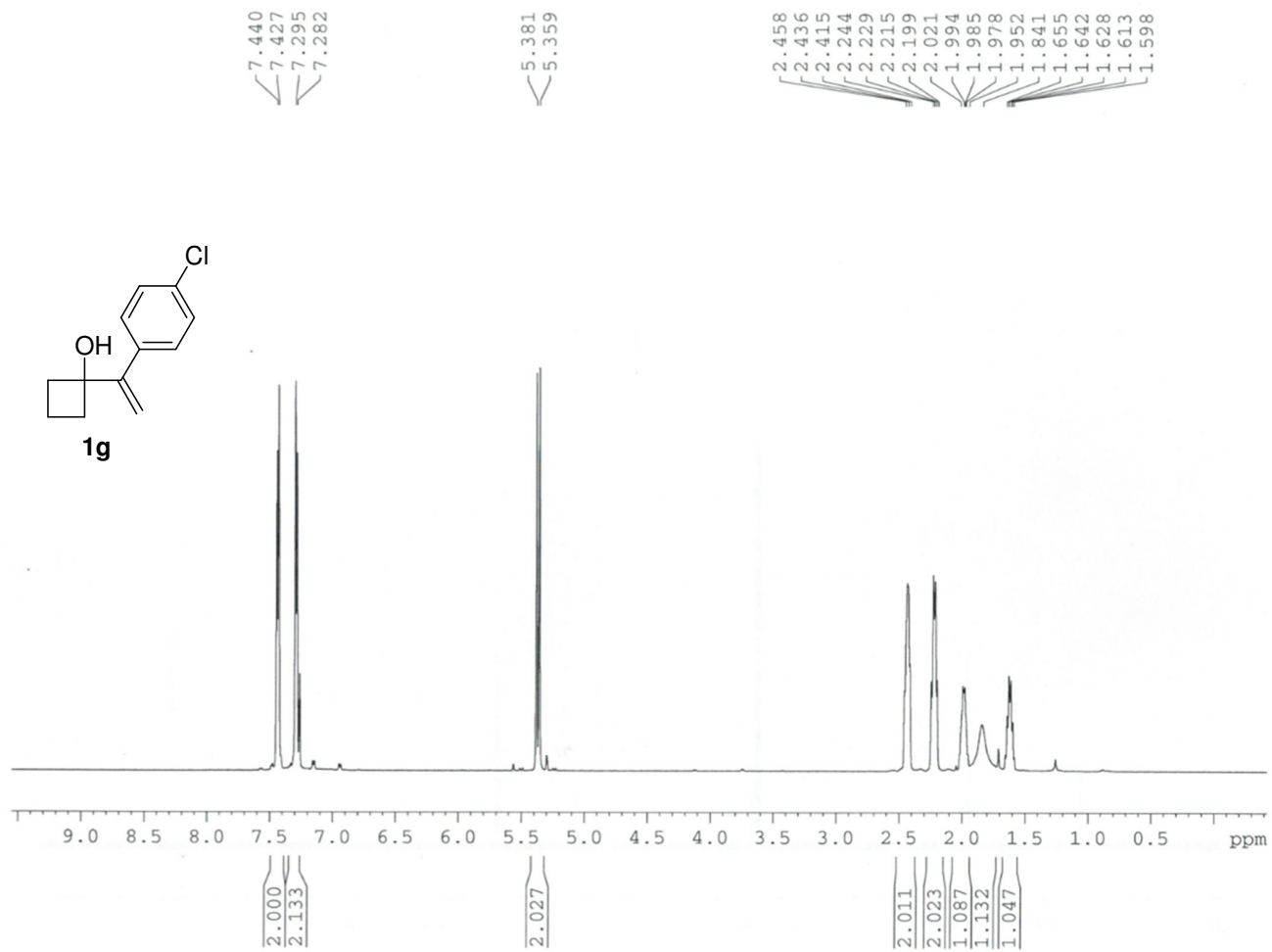
¹H NMR spectra of compound **1f**



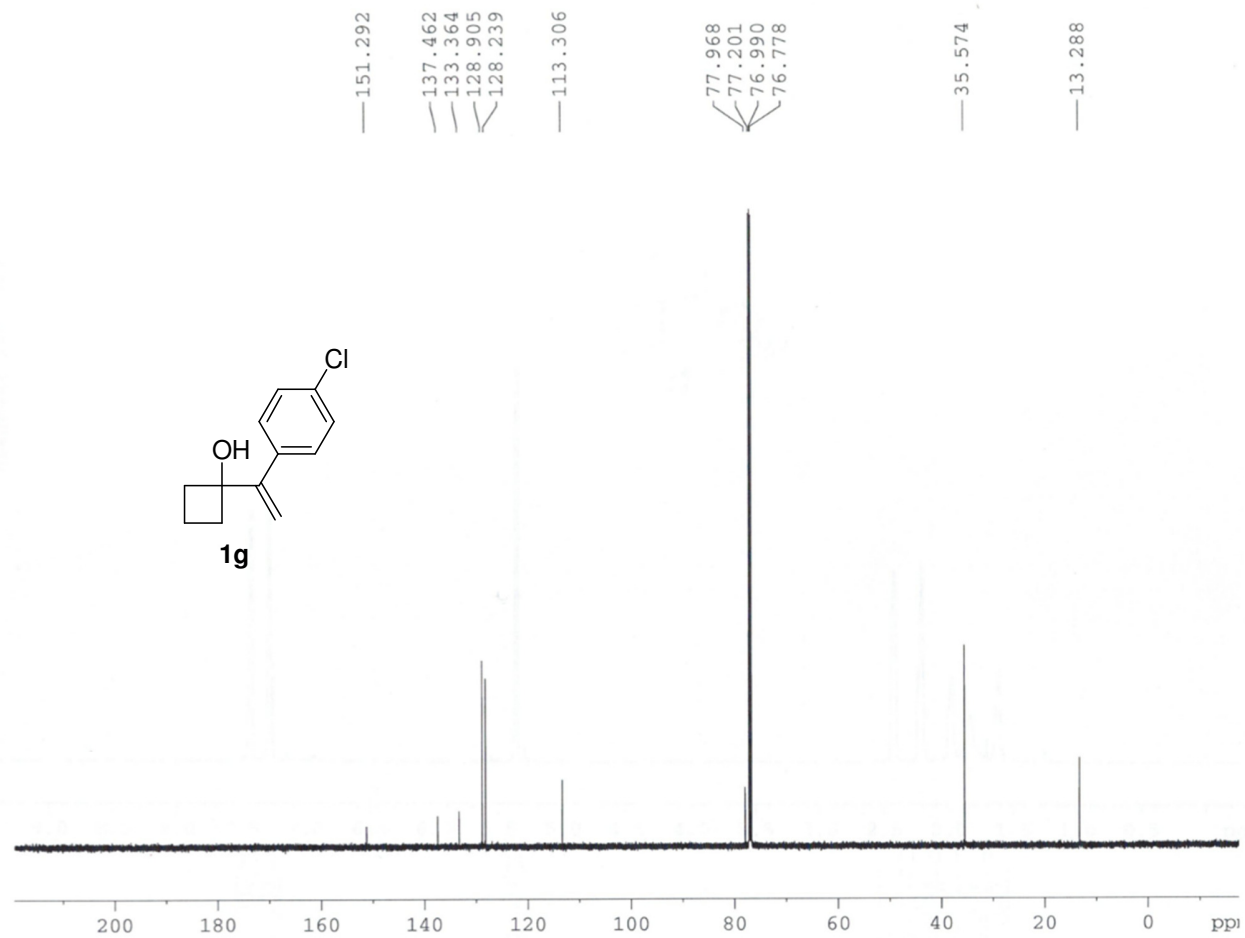
¹³C NMR spectra of compound **1f**



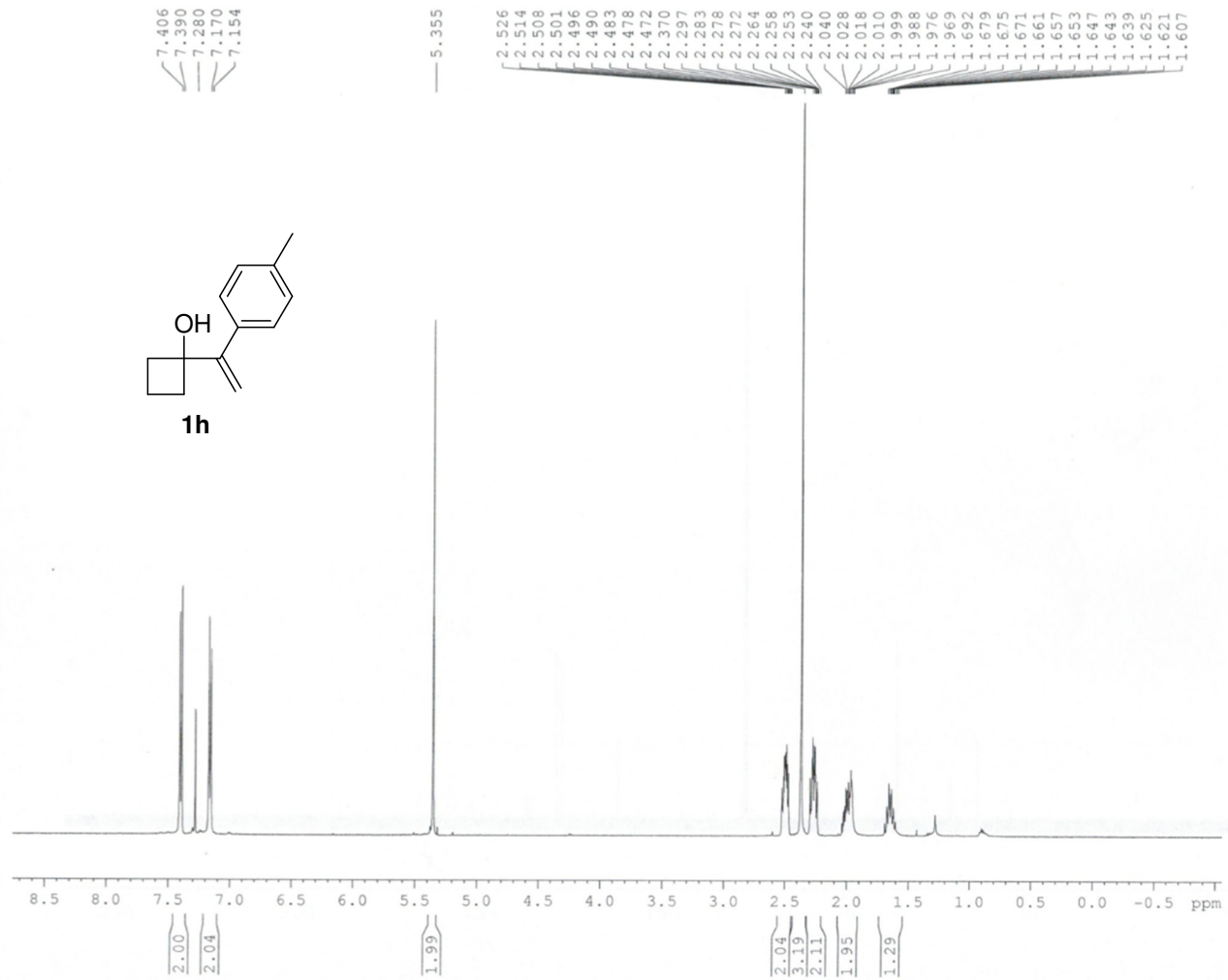
¹H NMR spectra of compound **1g**



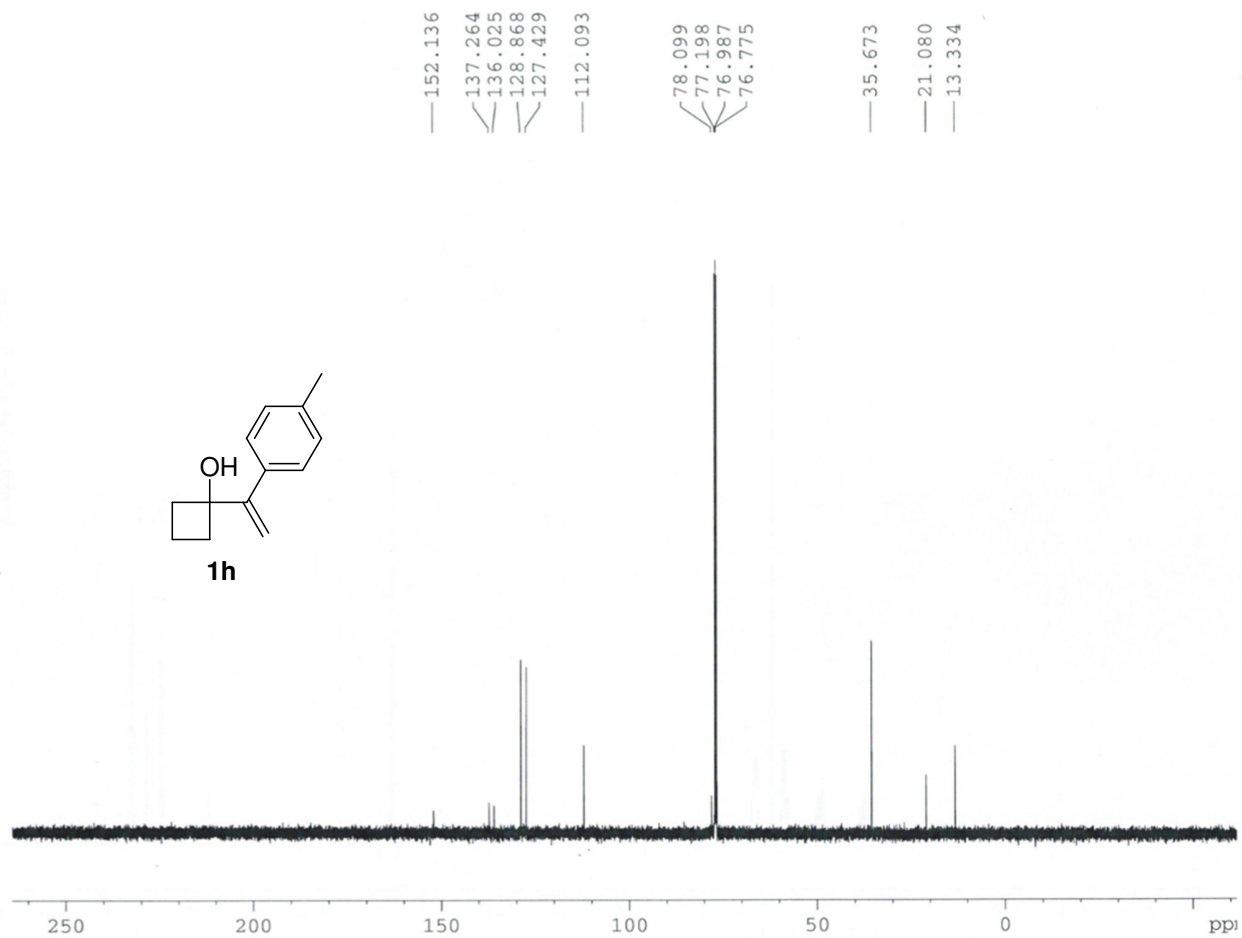
¹³C NMR spectra of compound **1g**



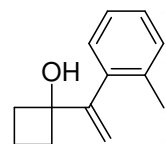
¹H NMR spectra of compound **1h**



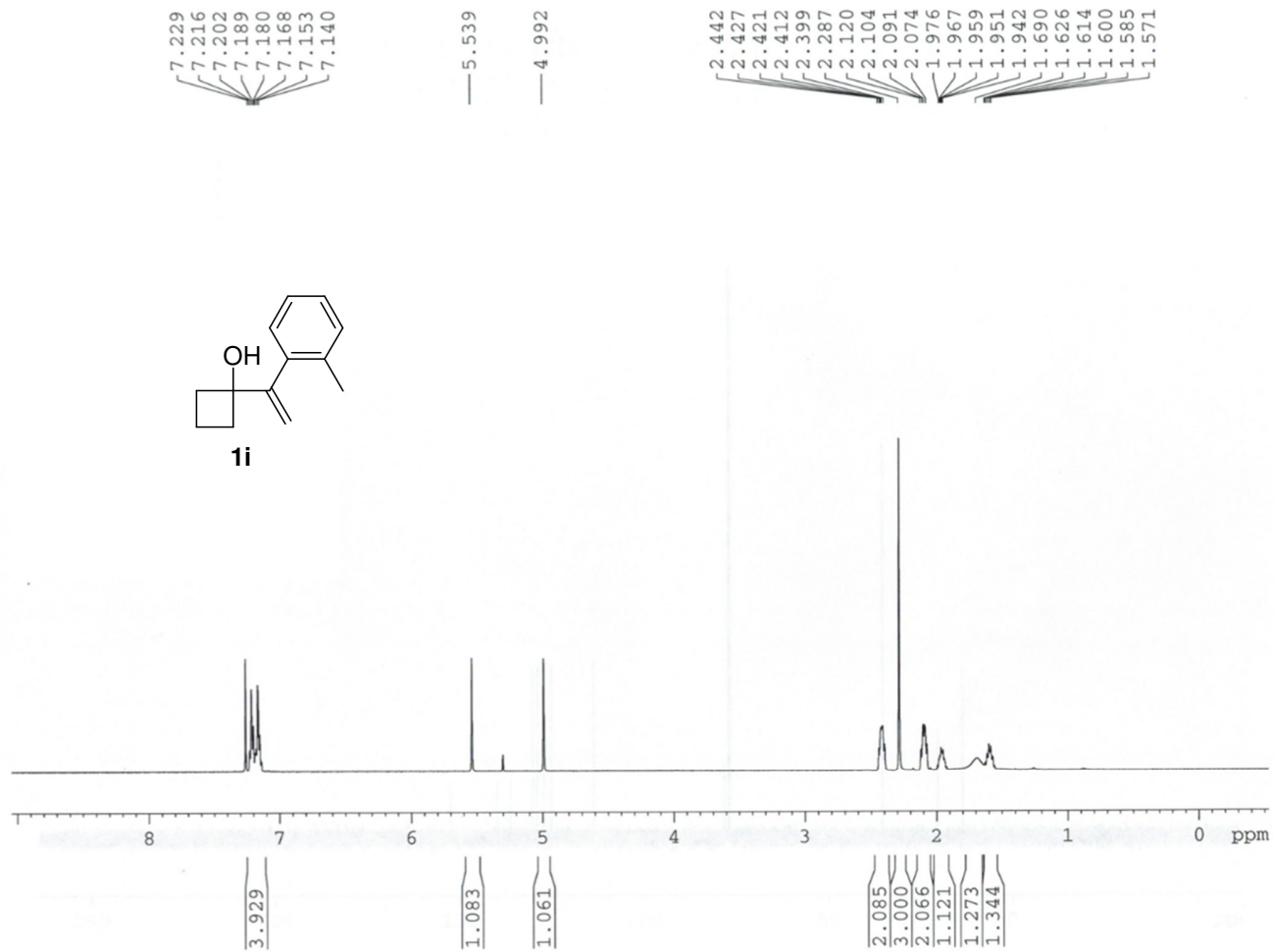
¹³C NMR spectra of compound **1h**



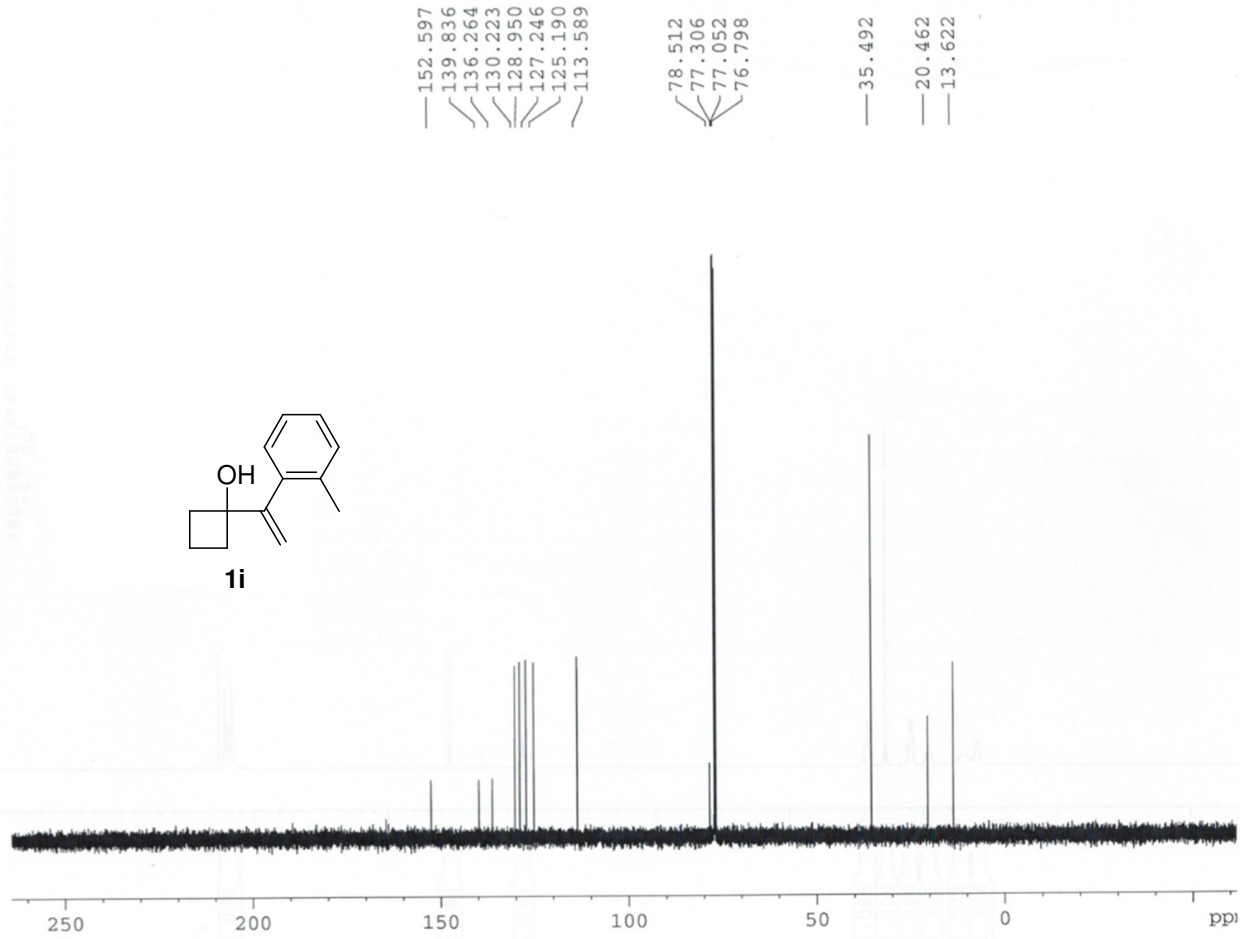
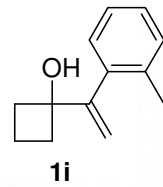
¹H NMR spectra of compound **1i**



1i



¹³C NMR spectra of compound **1i**



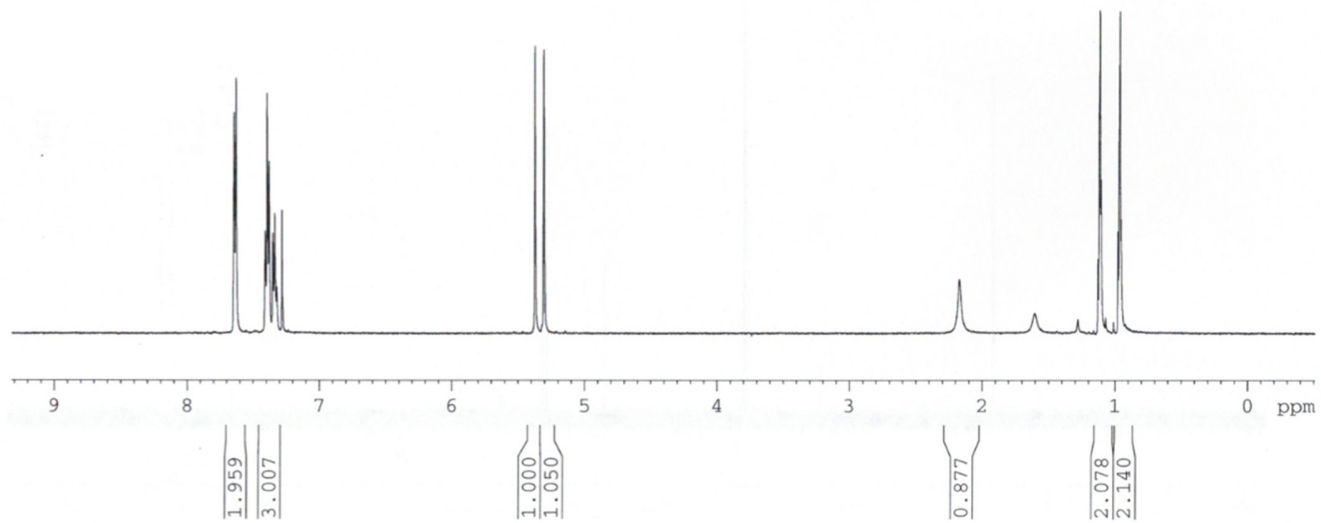
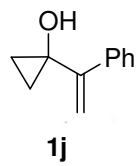
¹H NMR spectra of compound **1j**

7.64
7.62
7.40
7.39
7.37
7.35
7.33
7.32
7.28

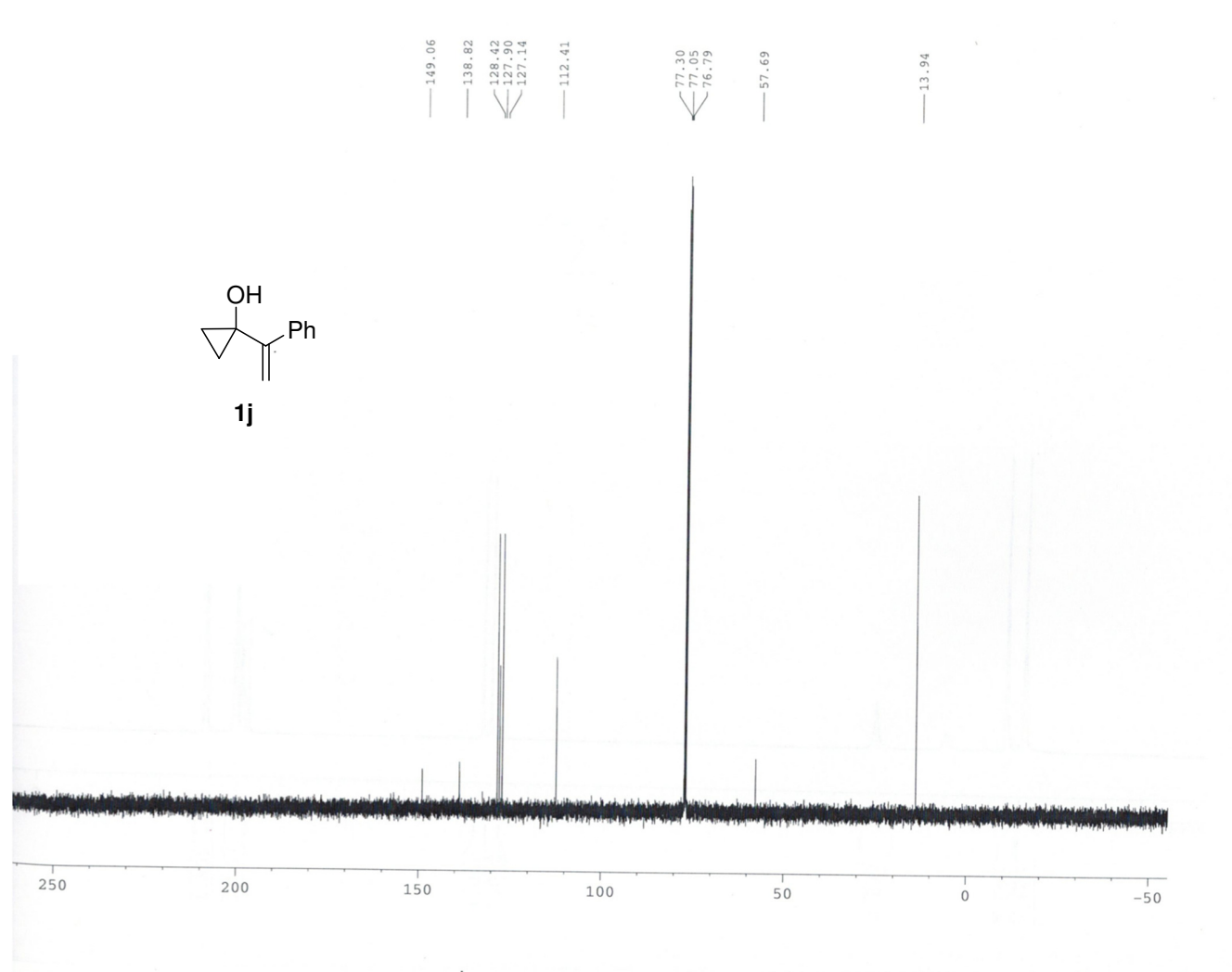
5.37
5.30

2.17

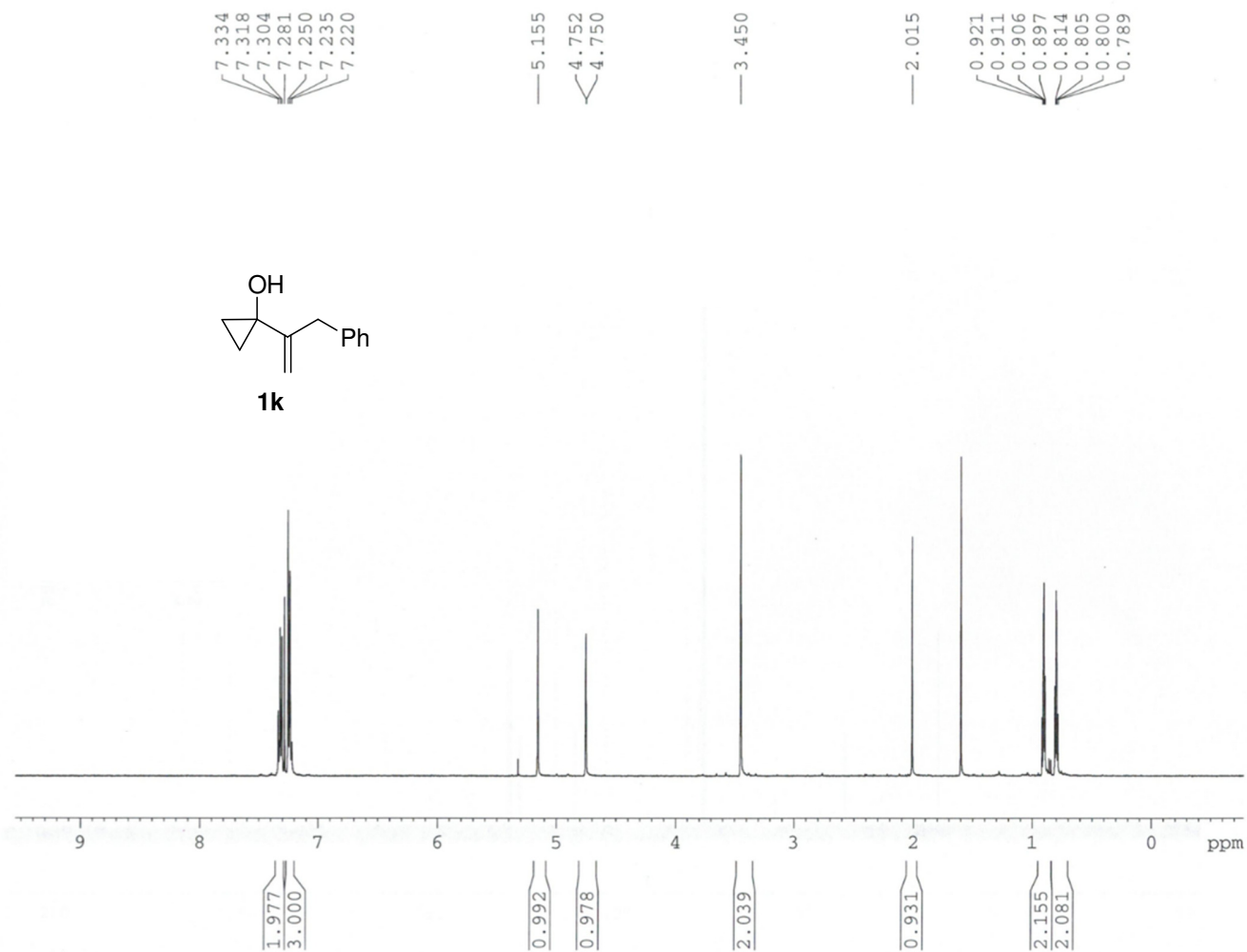
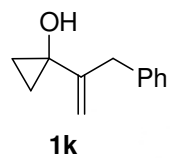
1.12
1.11
1.10
0.97
0.96
0.95



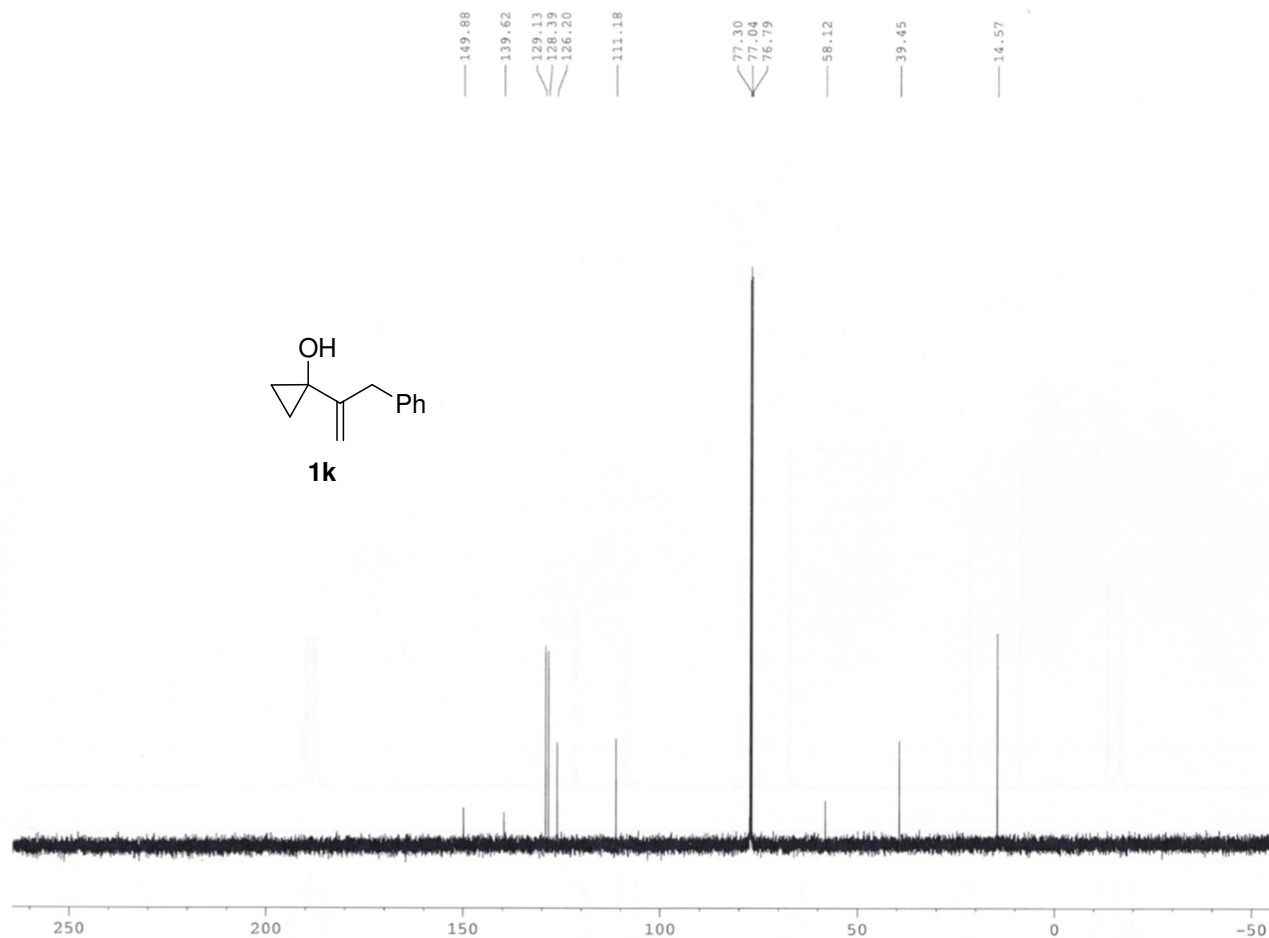
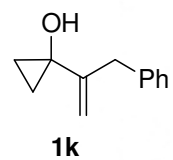
¹³C NMR spectra of compound **1j**



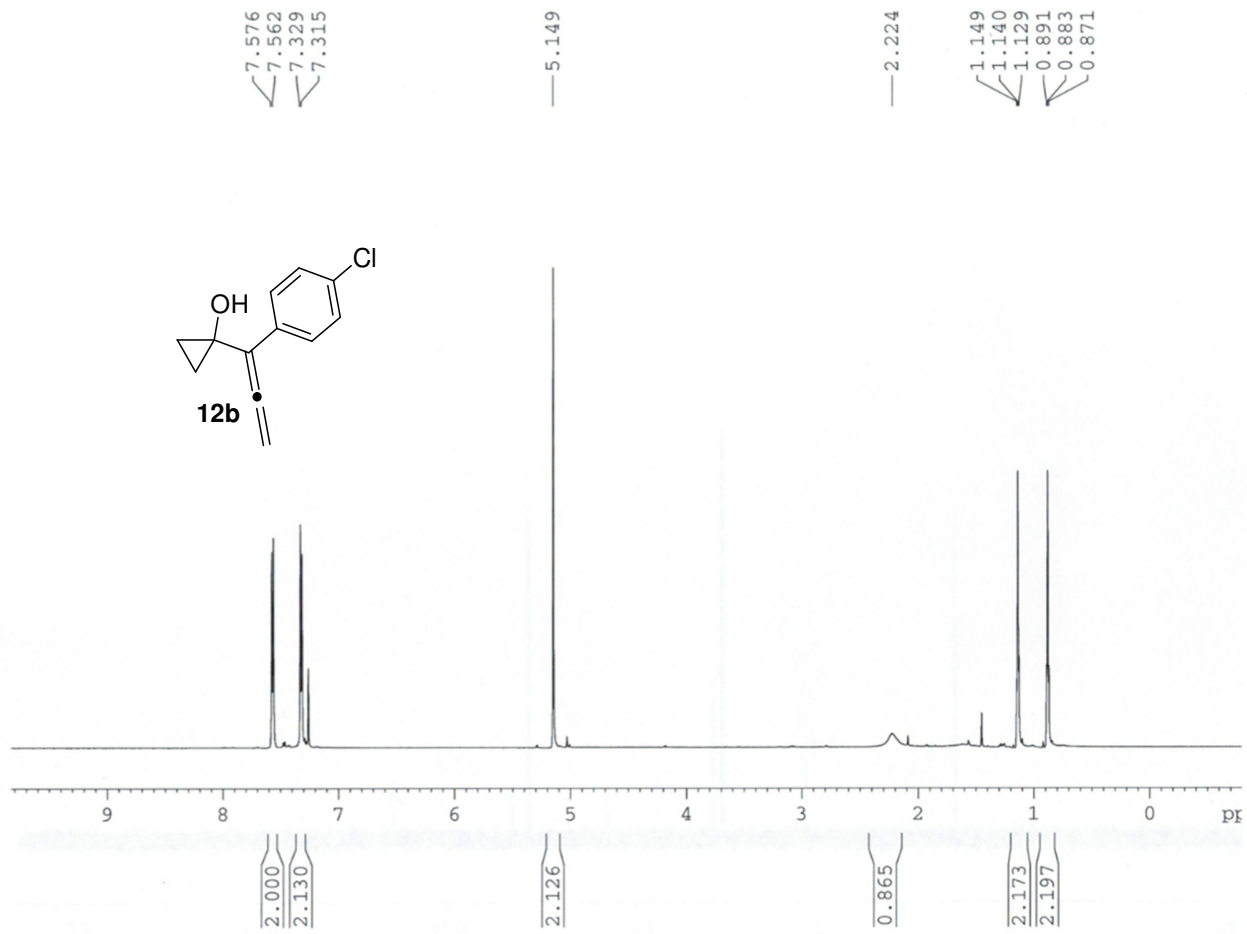
¹H NMR spectra of compound **1k**



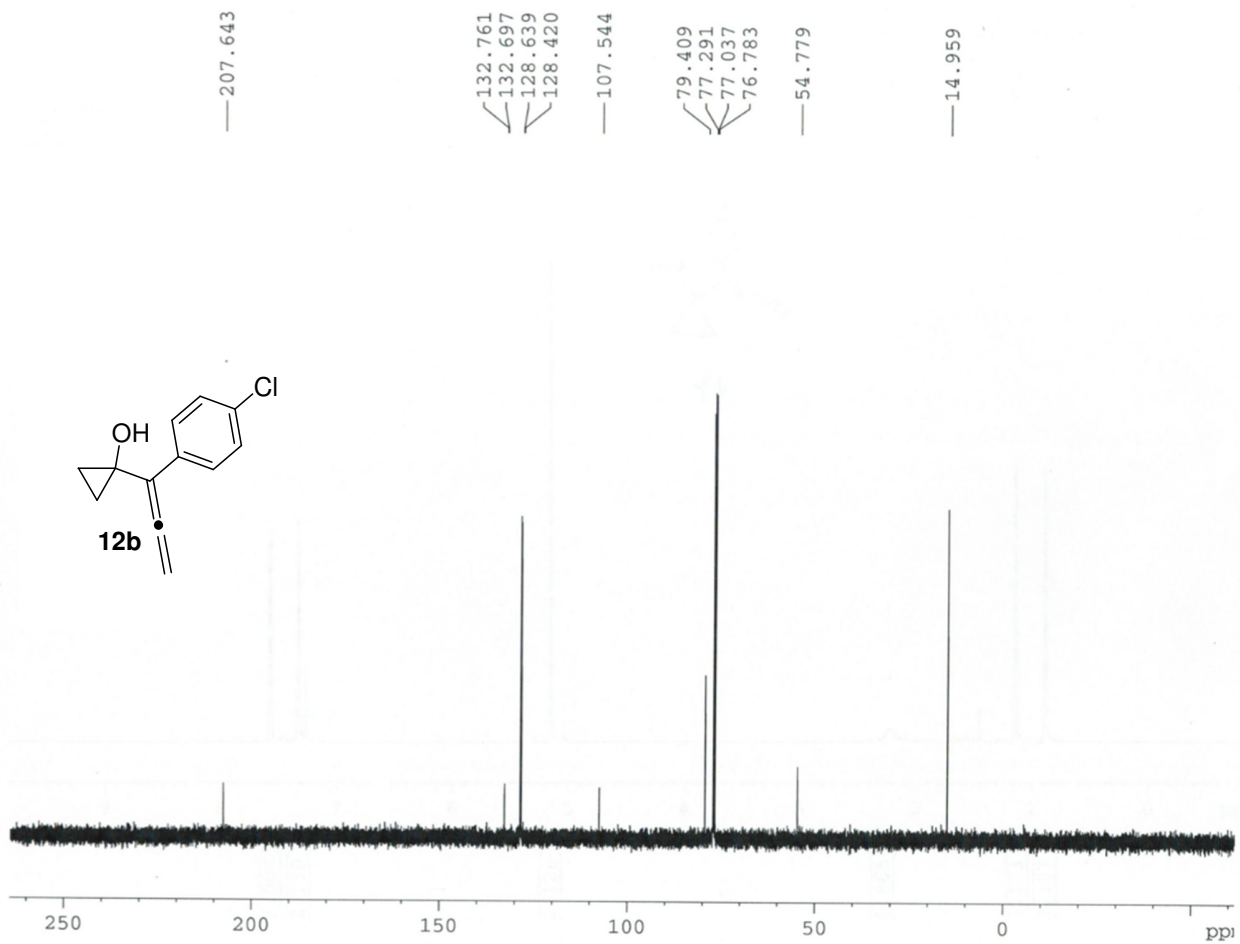
¹³C NMR spectra of compound **1k**



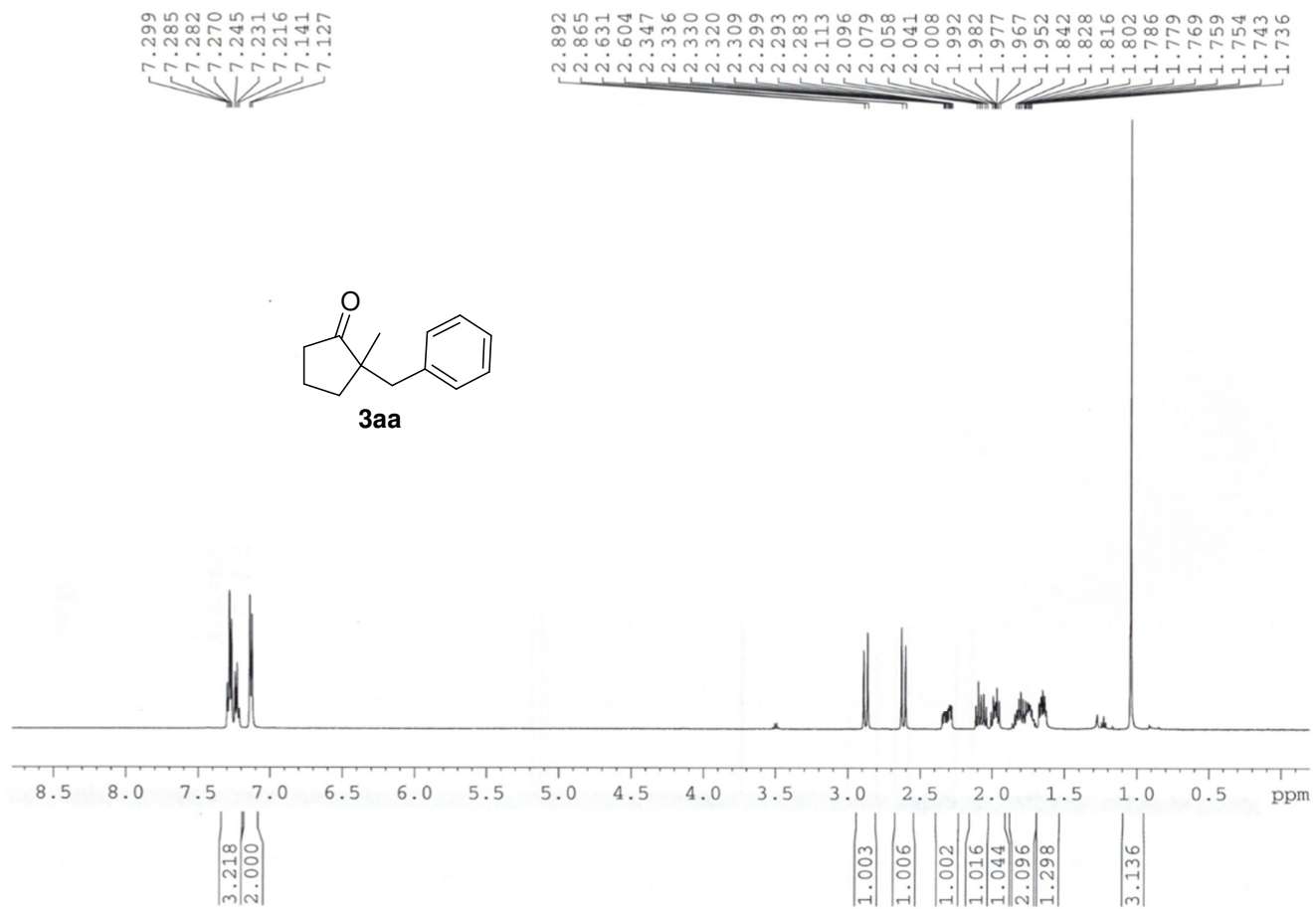
¹H NMR spectra of compound **12b**



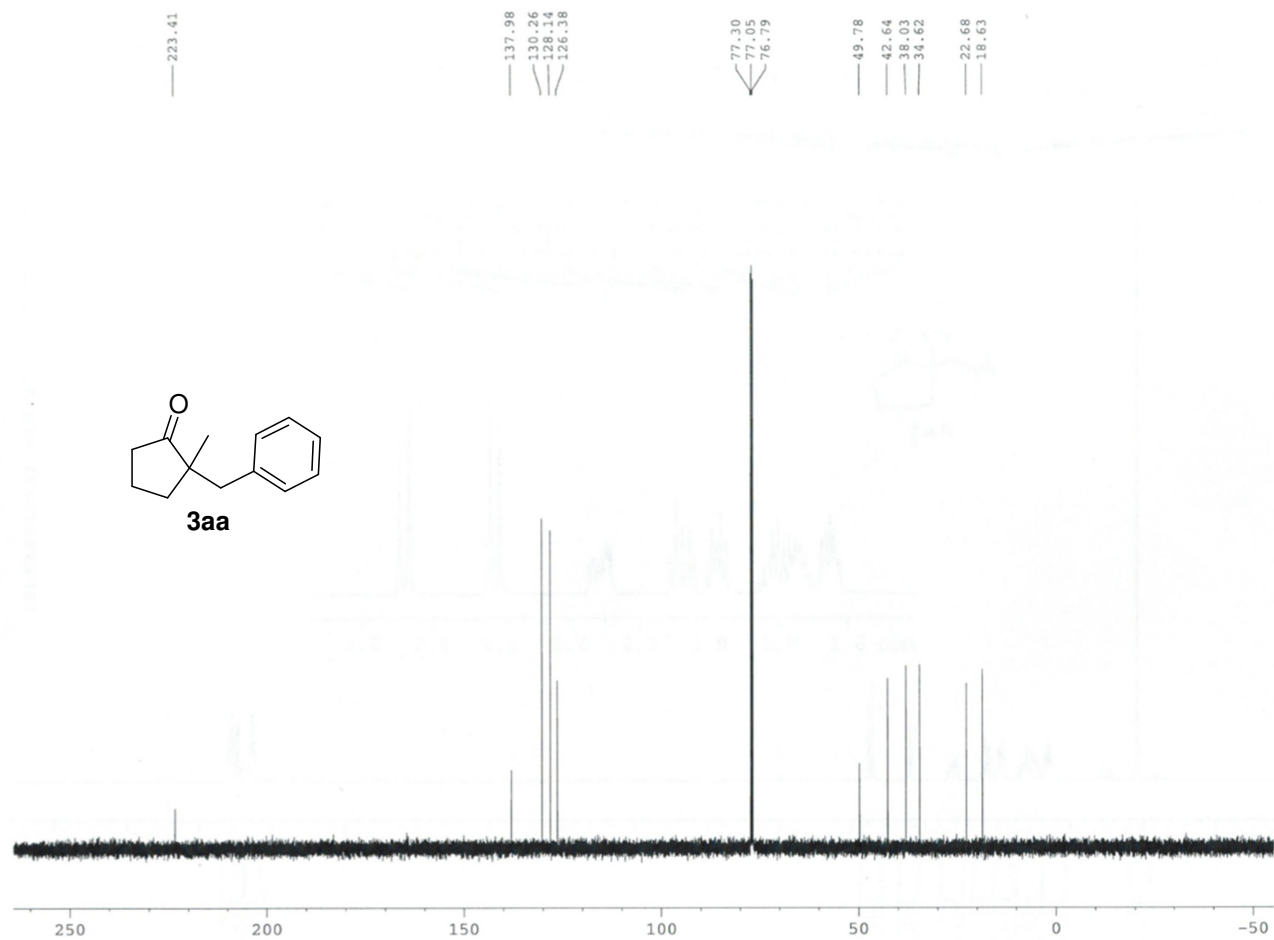
¹³C NMR spectra of compound **12b**



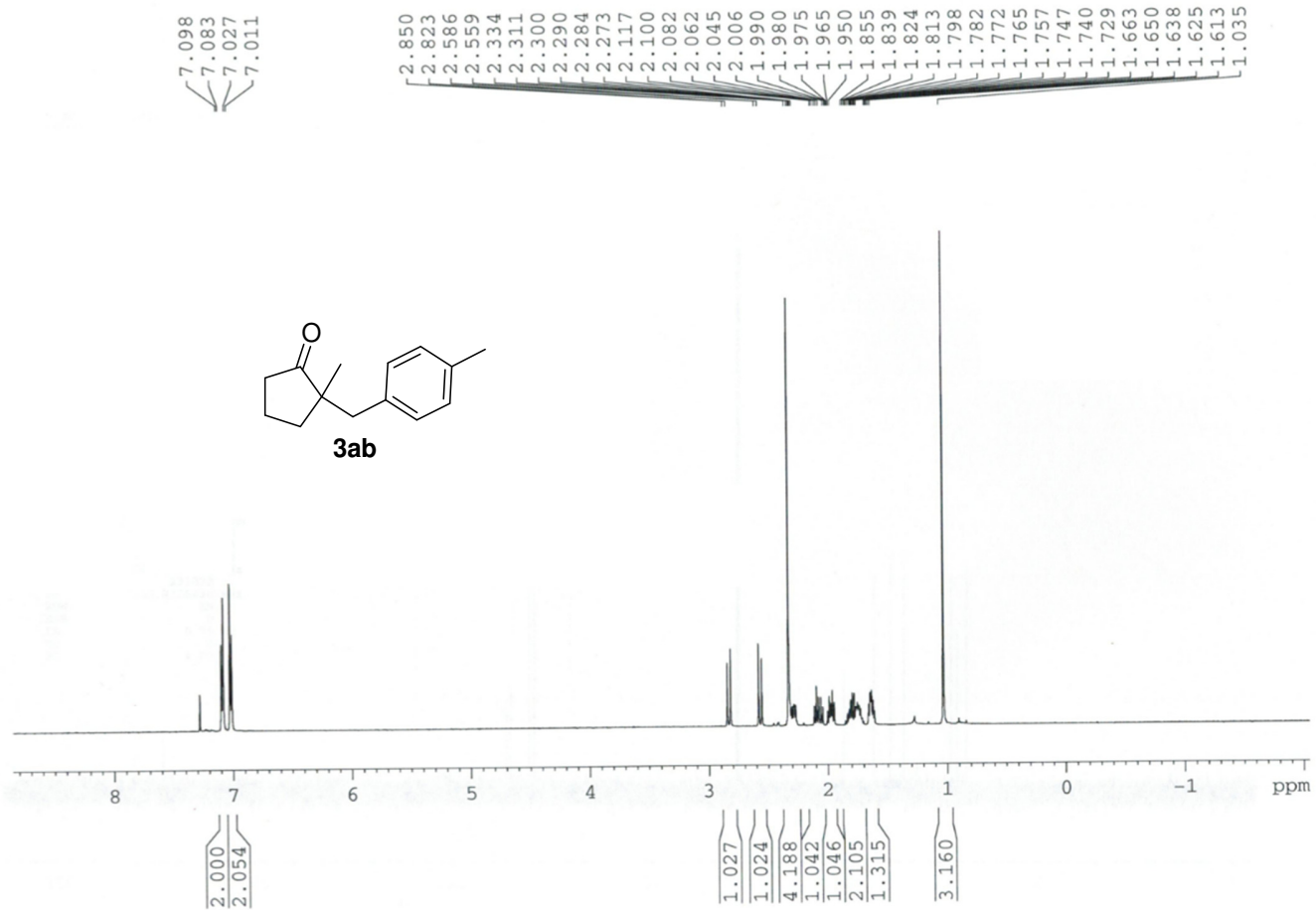
¹H NMR spectra of compound **3aa**



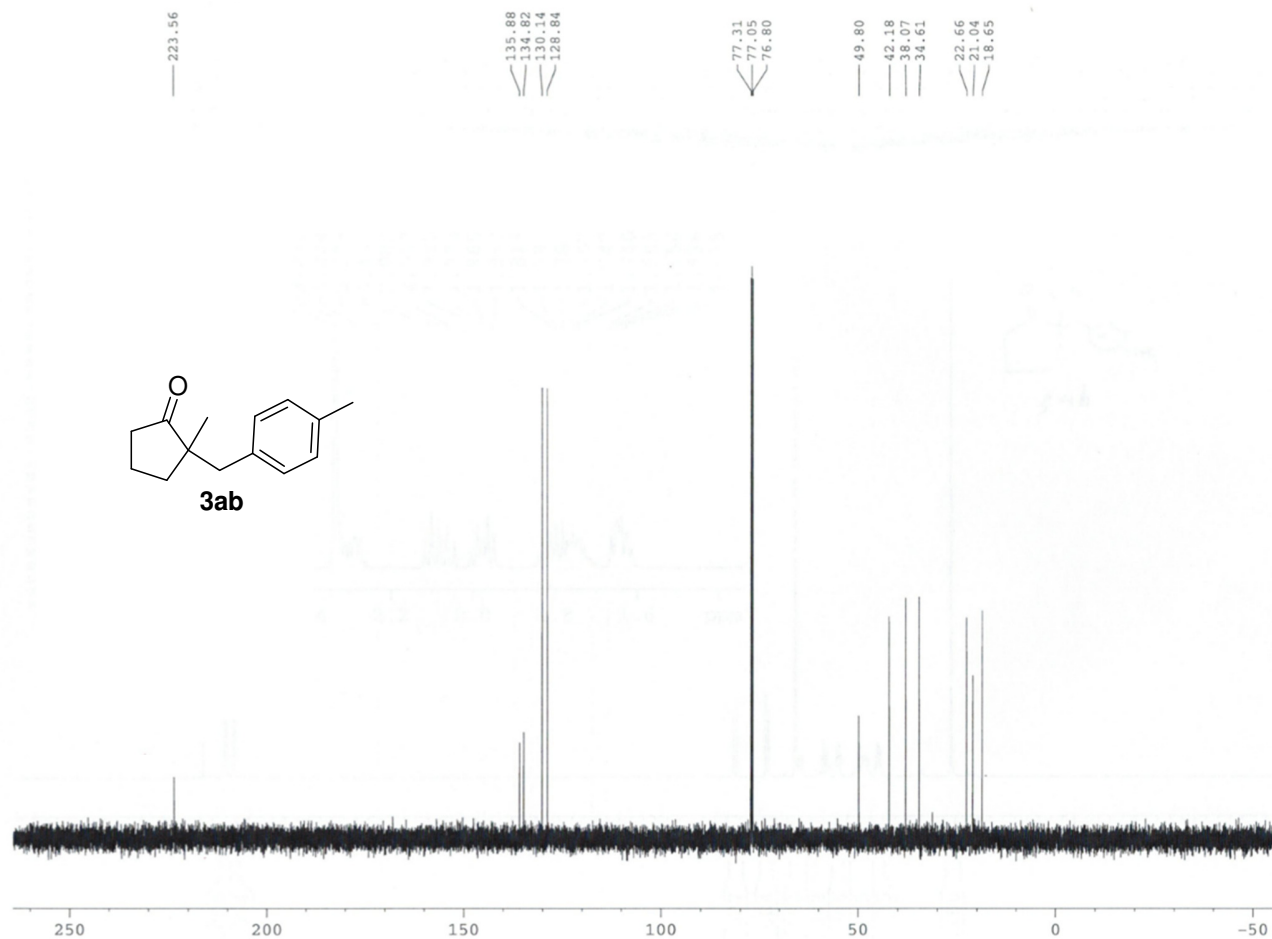
¹³C NMR spectra of compound **3aa**



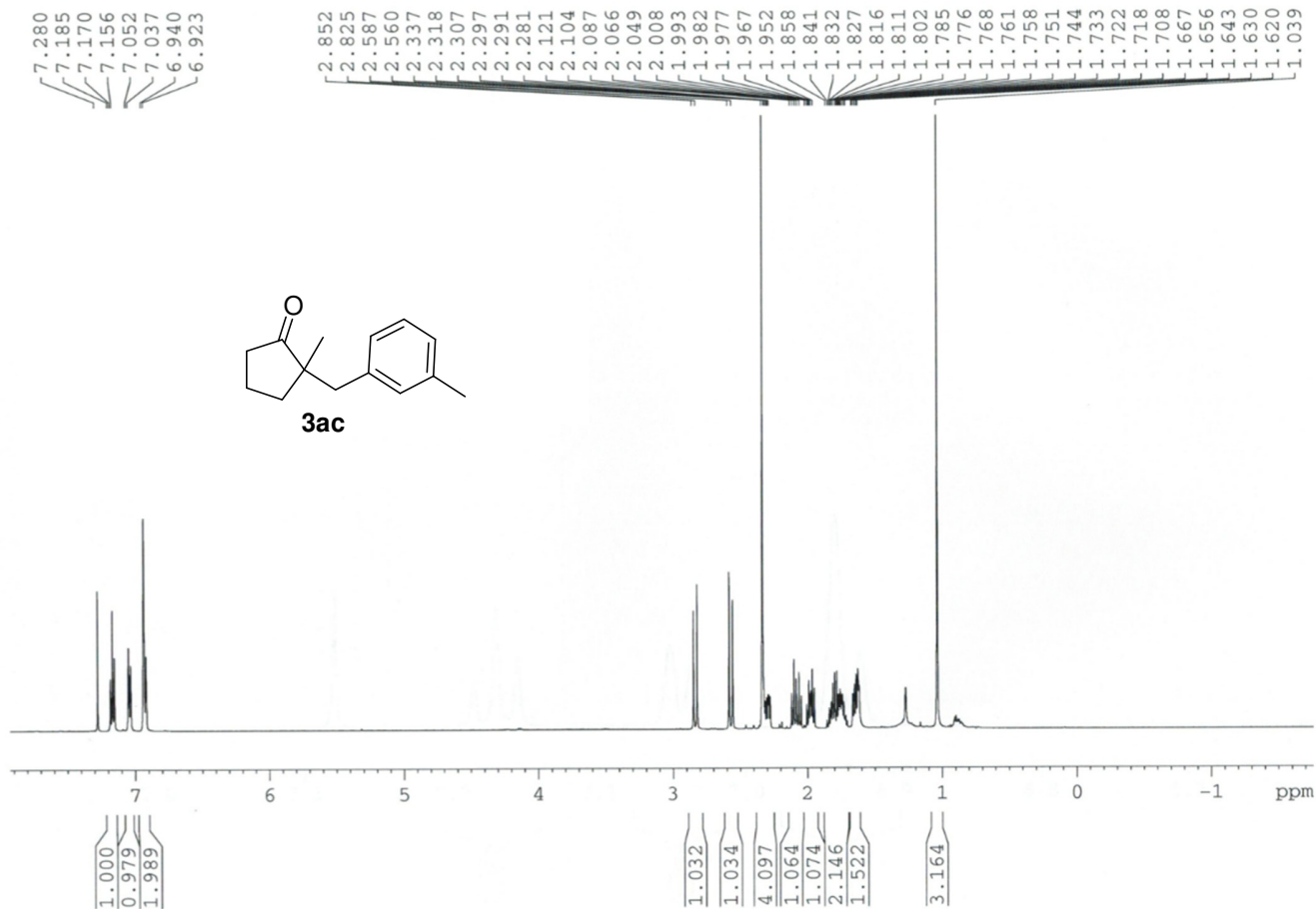
¹H NMR spectra of compound **3ab**



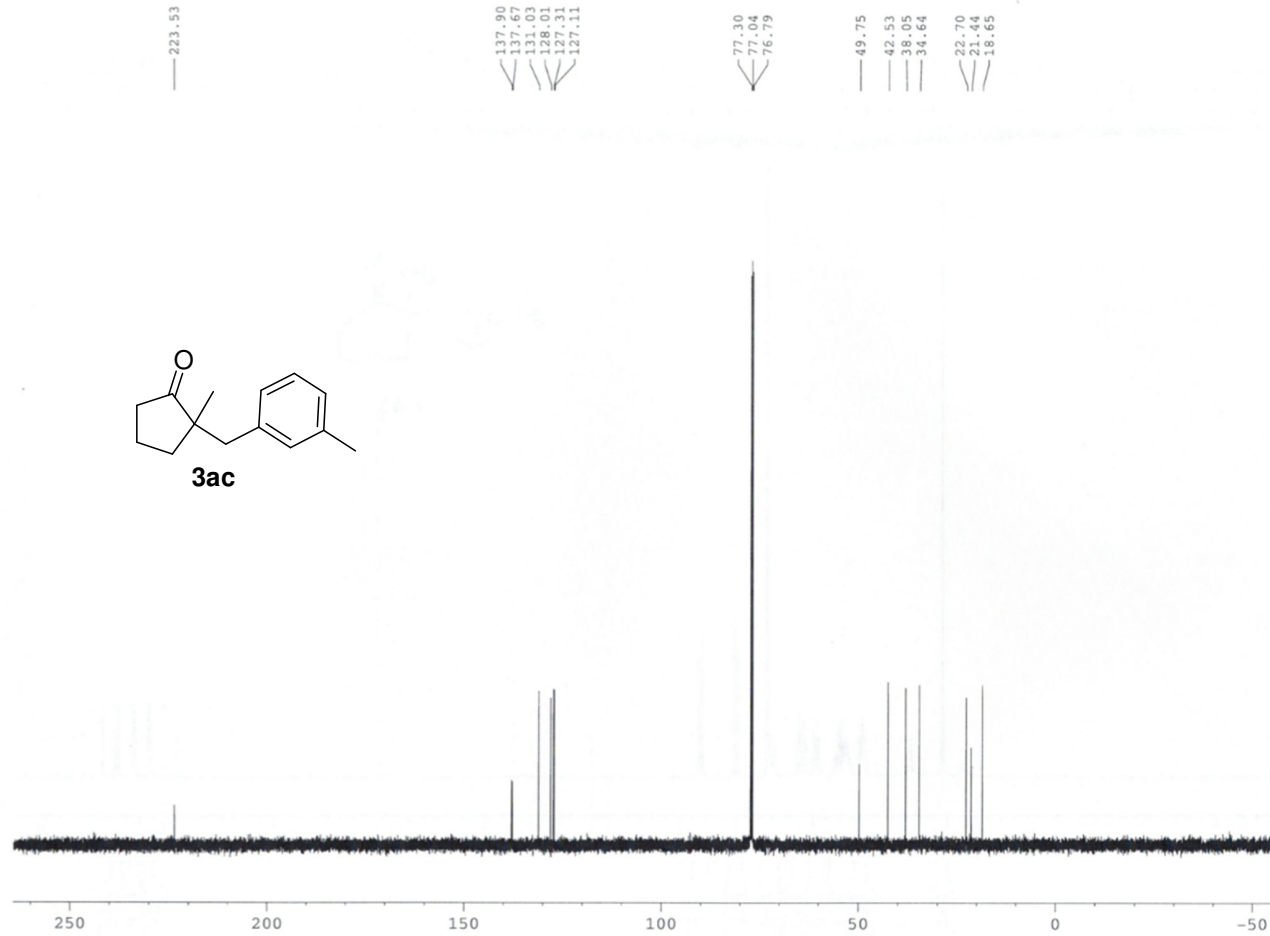
¹³C NMR spectra of compound **3ab**



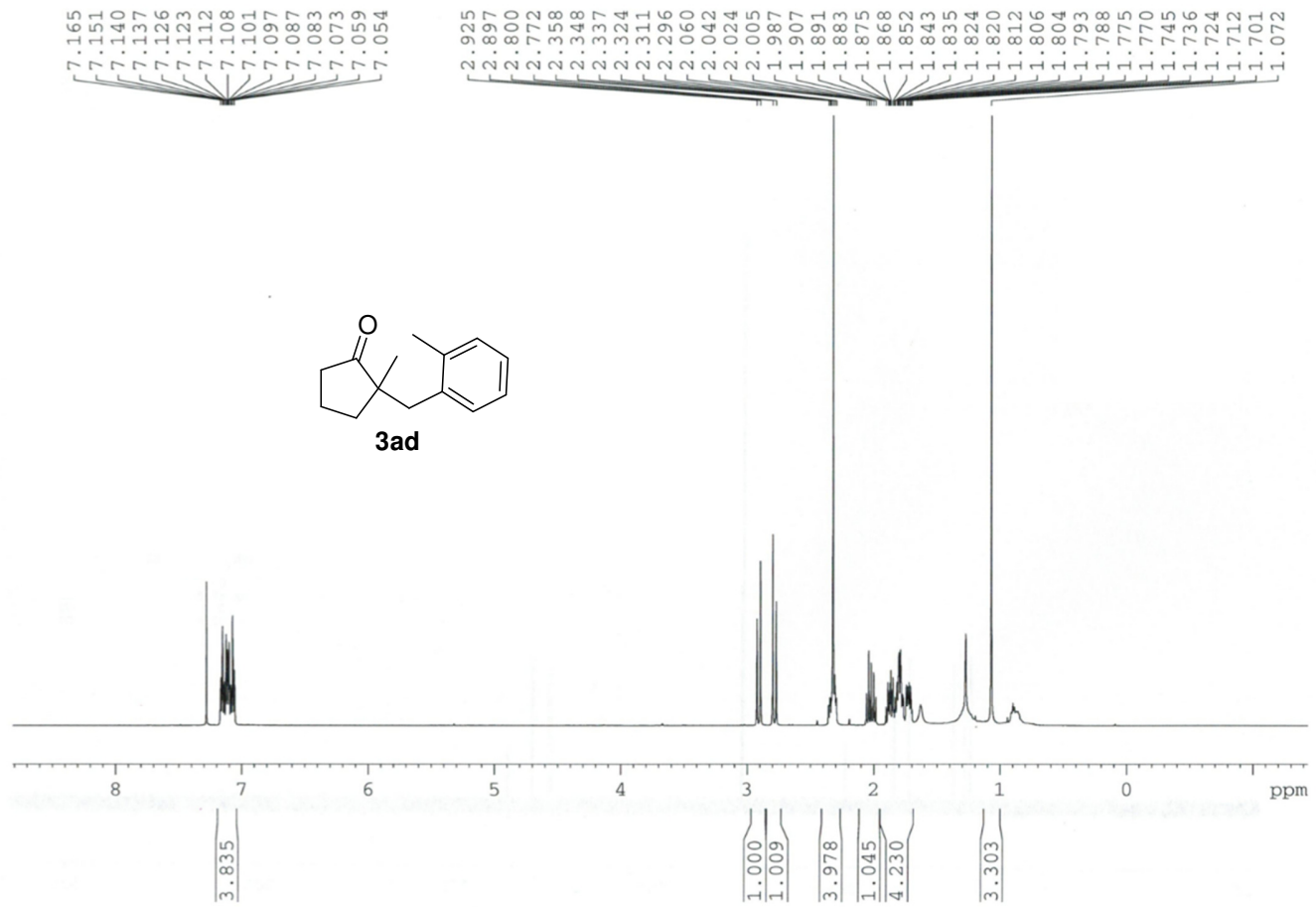
¹H NMR spectra of compound **3ac**



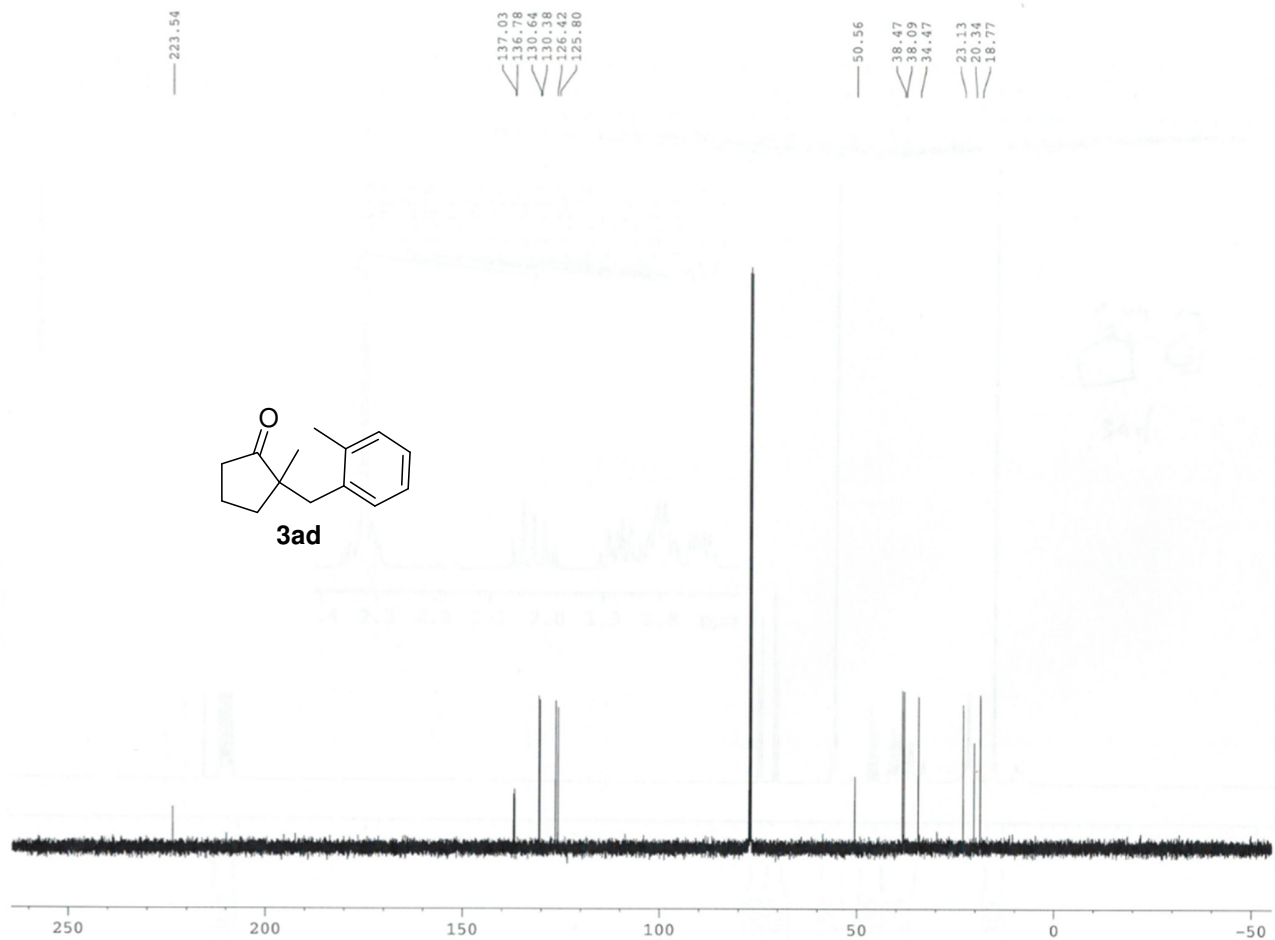
^{13}C NMR spectra of compound **3ac**



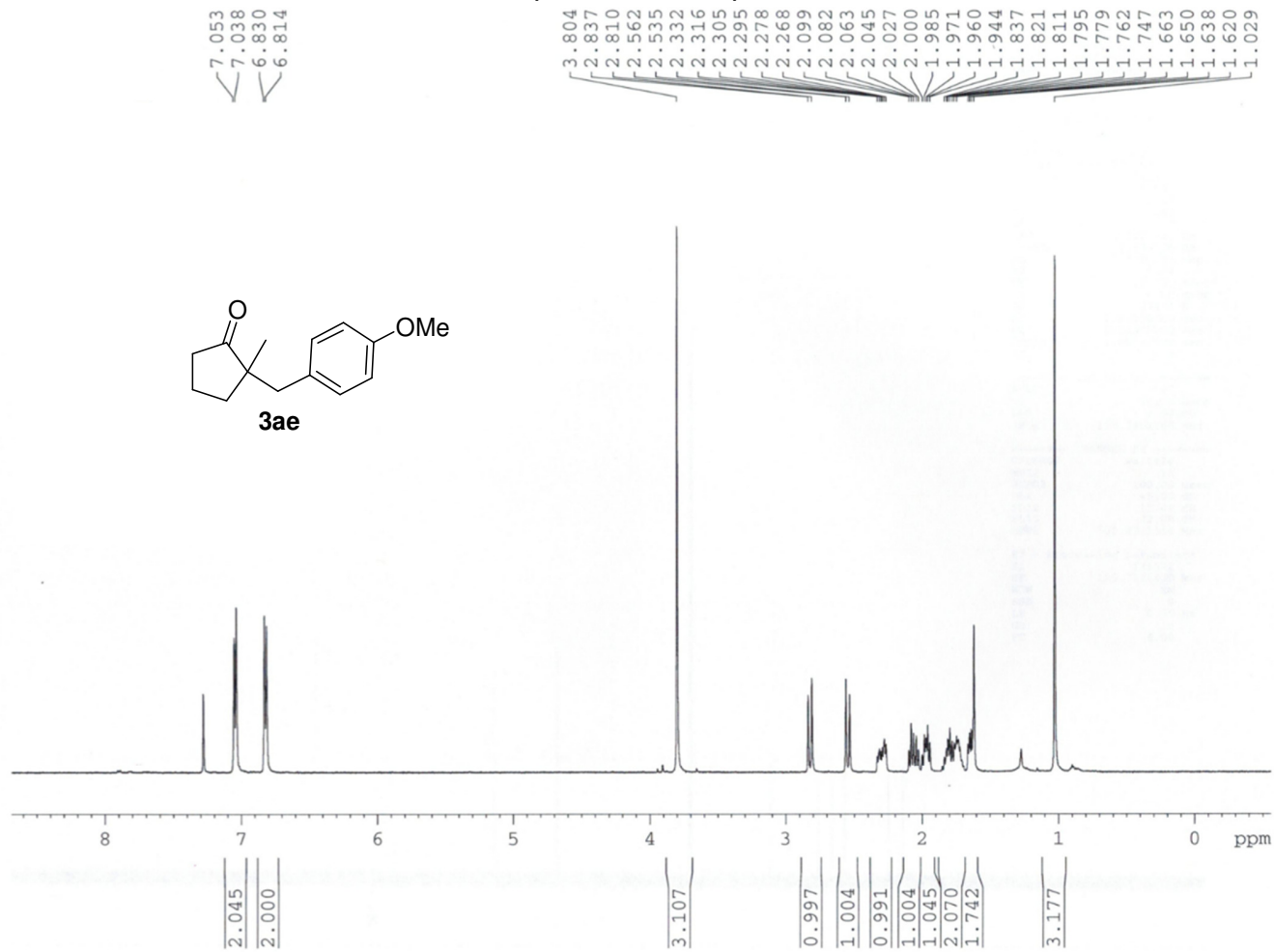
¹H NMR spectra of compound **3ad**



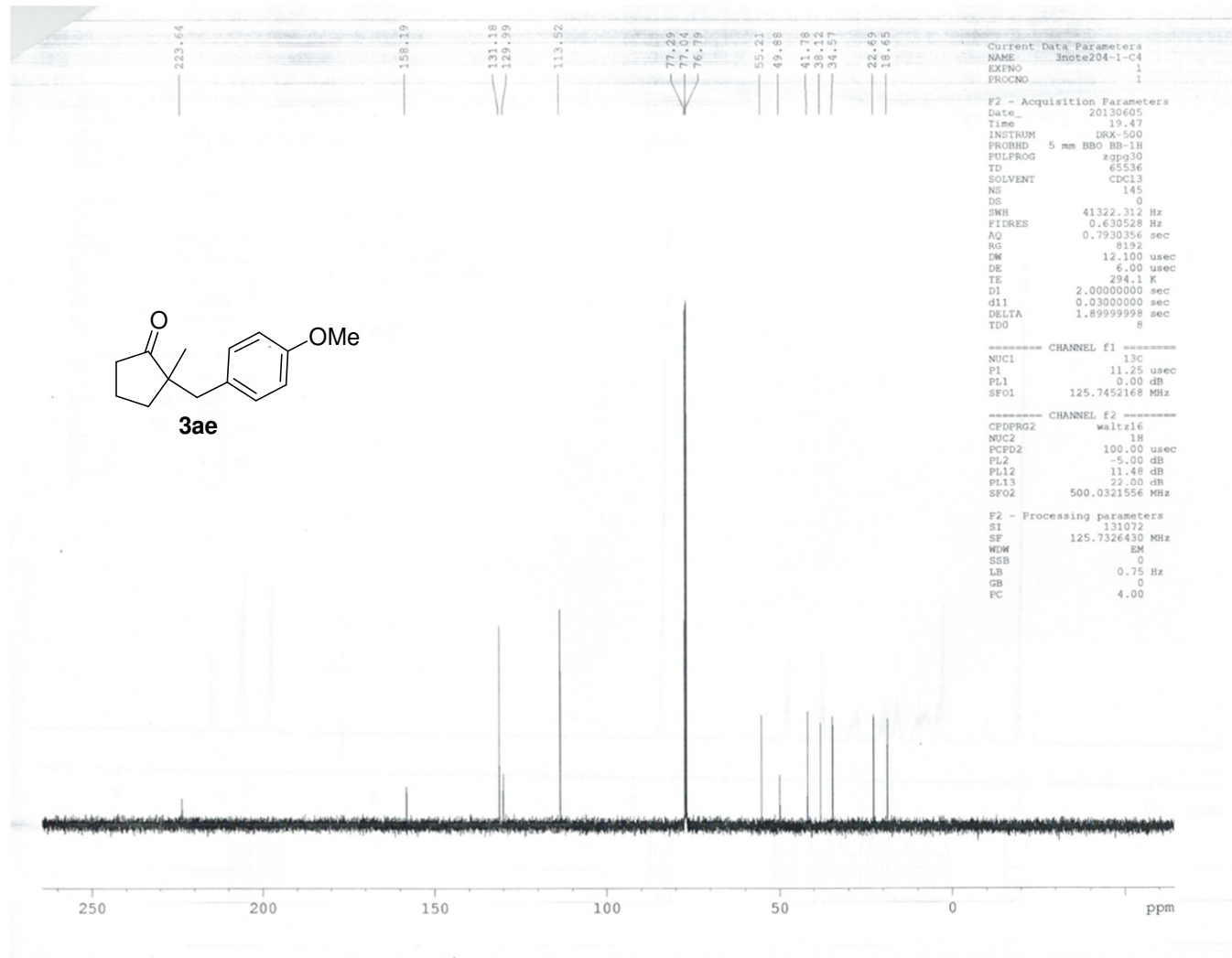
¹³C NMR spectra of compound **3ad**



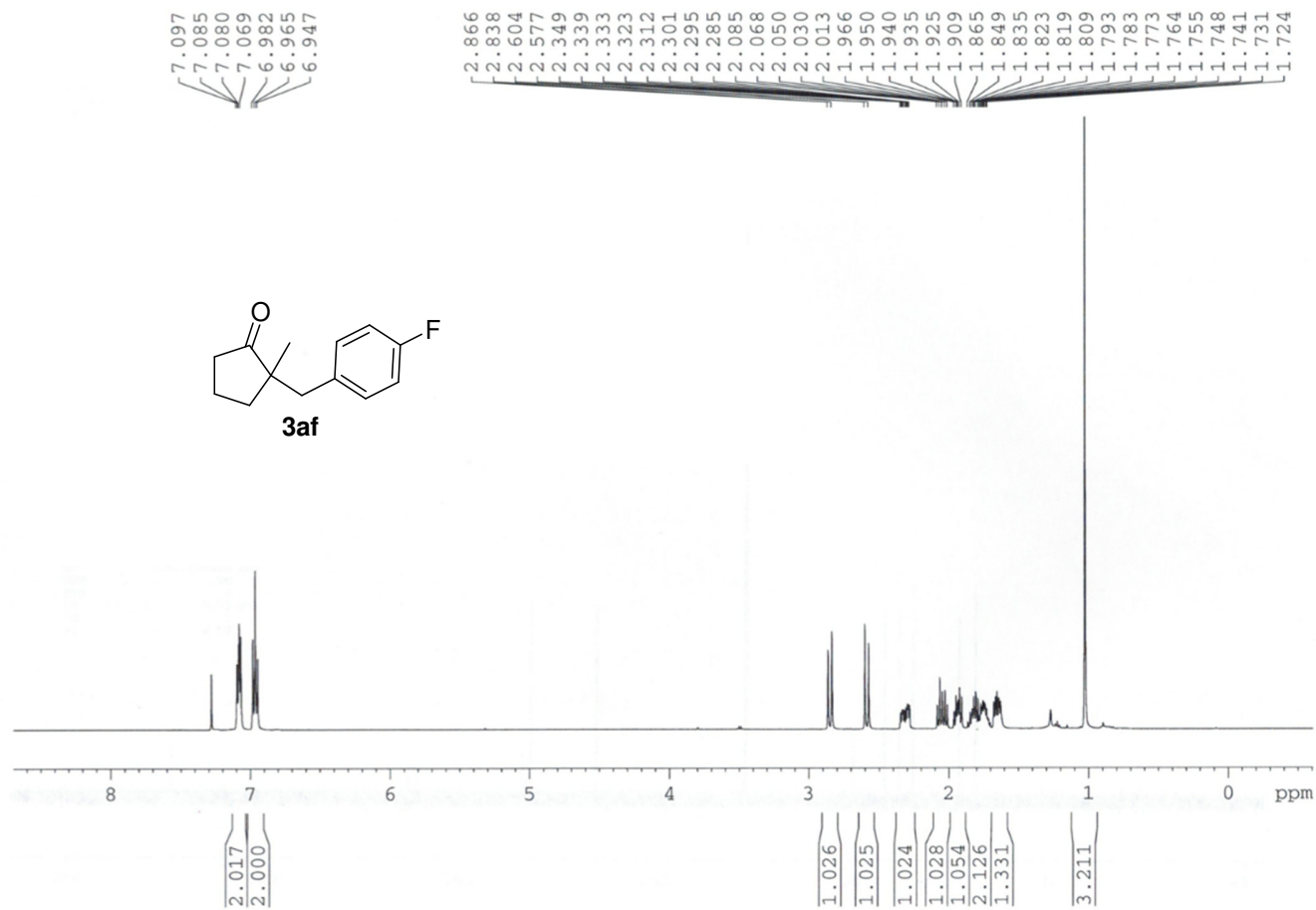
¹H NMR spectra of compound **3ae**



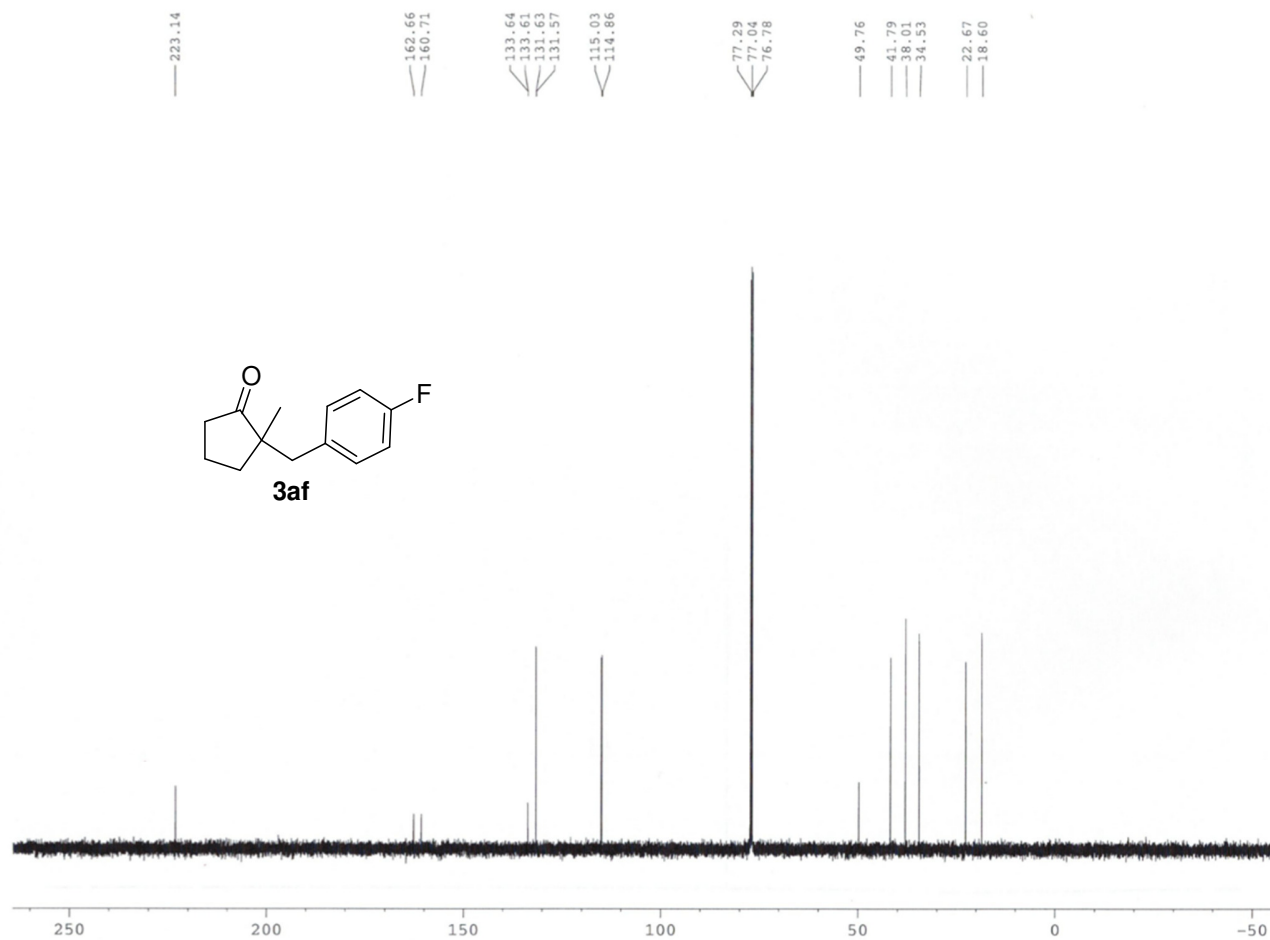
¹³C NMR spectra of compound 3ae



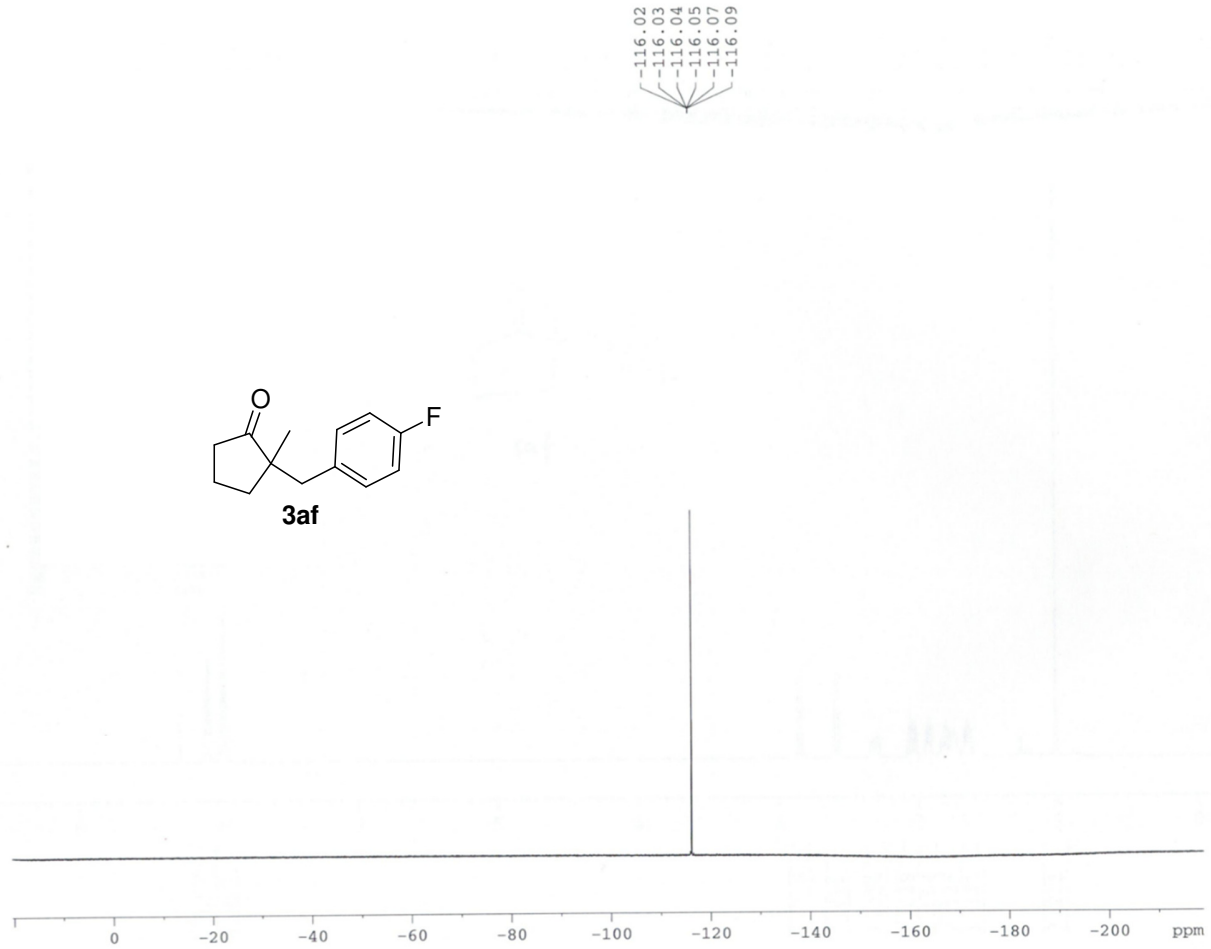
¹H NMR spectra of compound **3af**



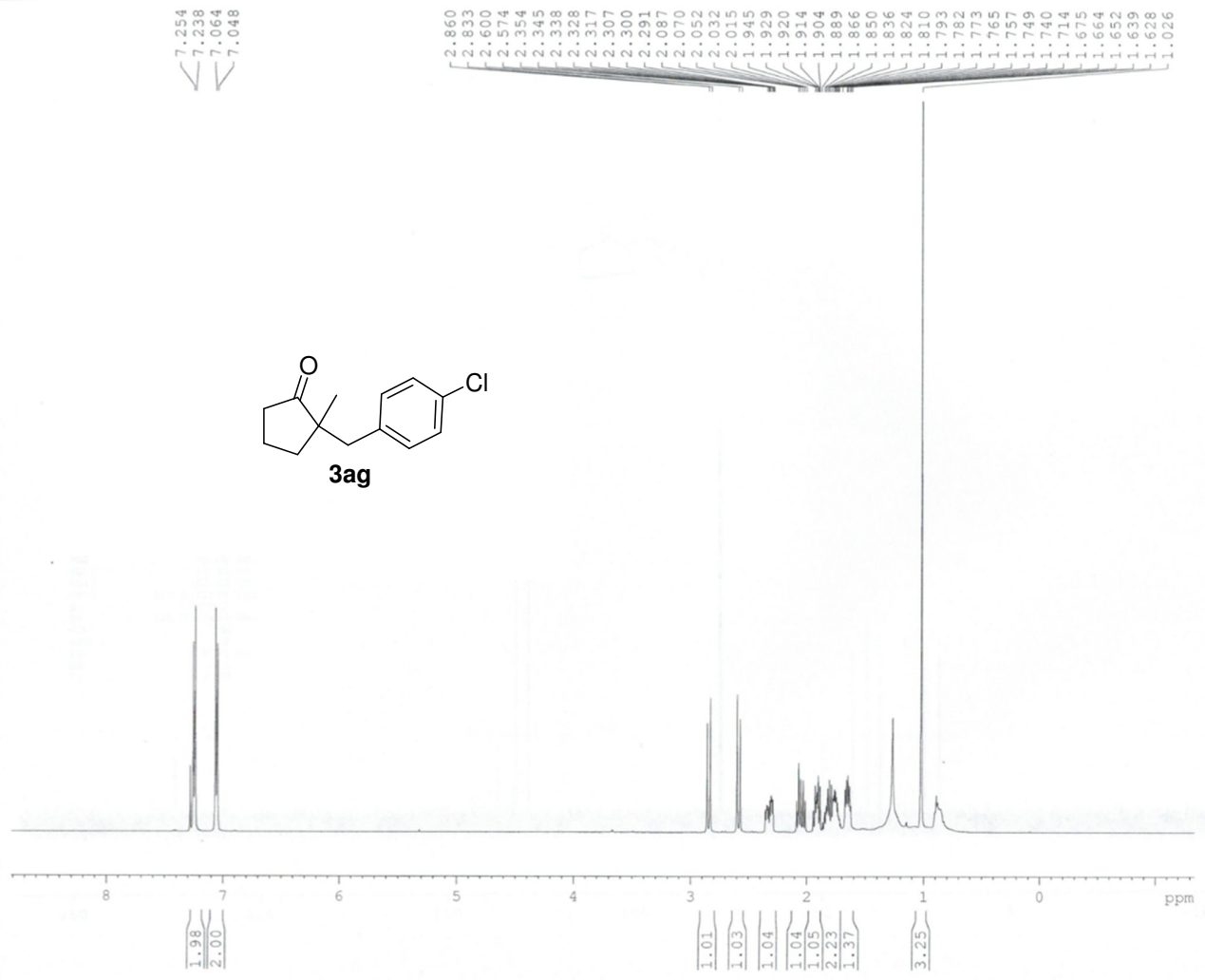
¹³C NMR spectra of compound **3af**



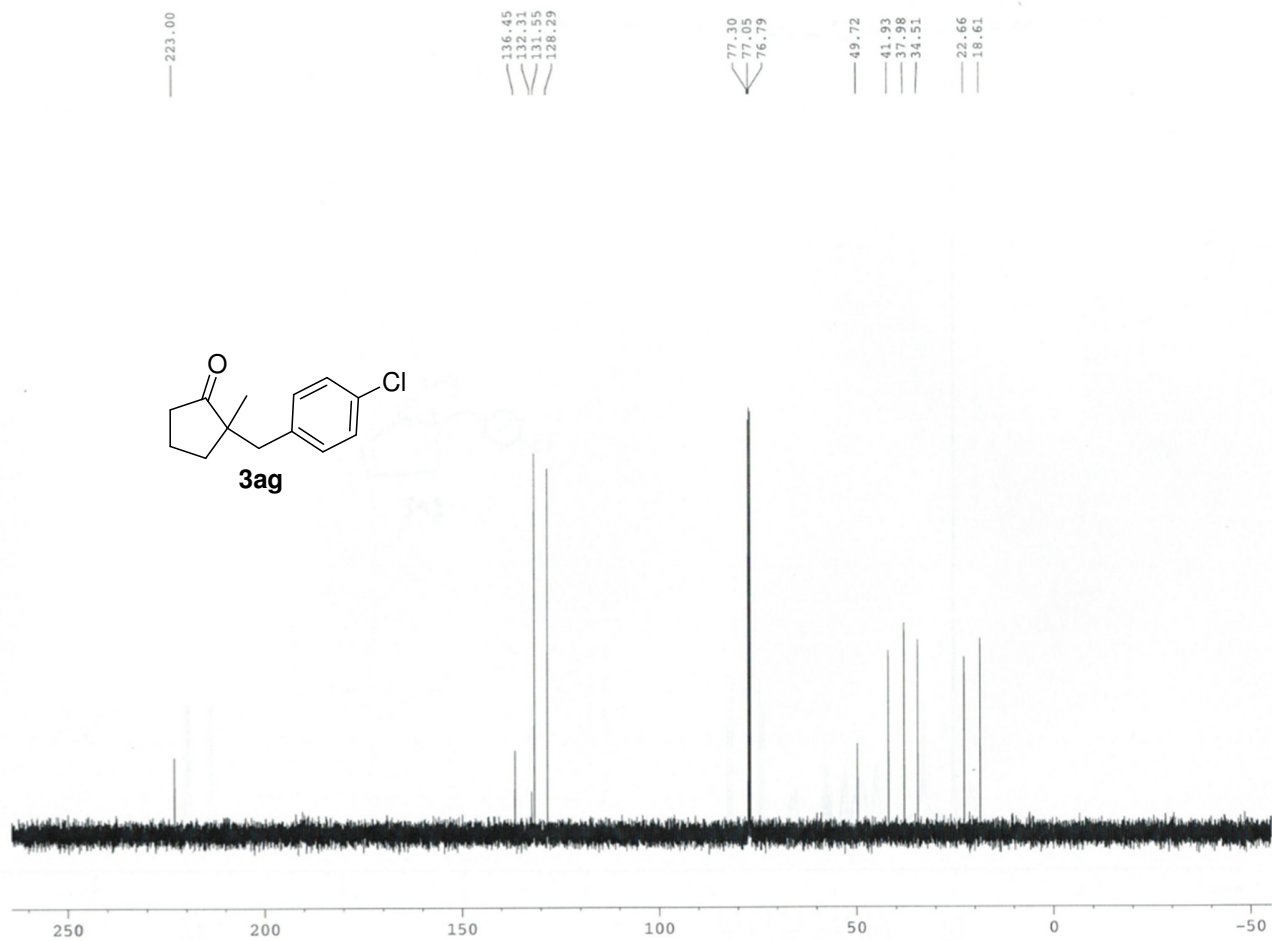
^{19}F NMR spectra of compound **3af**



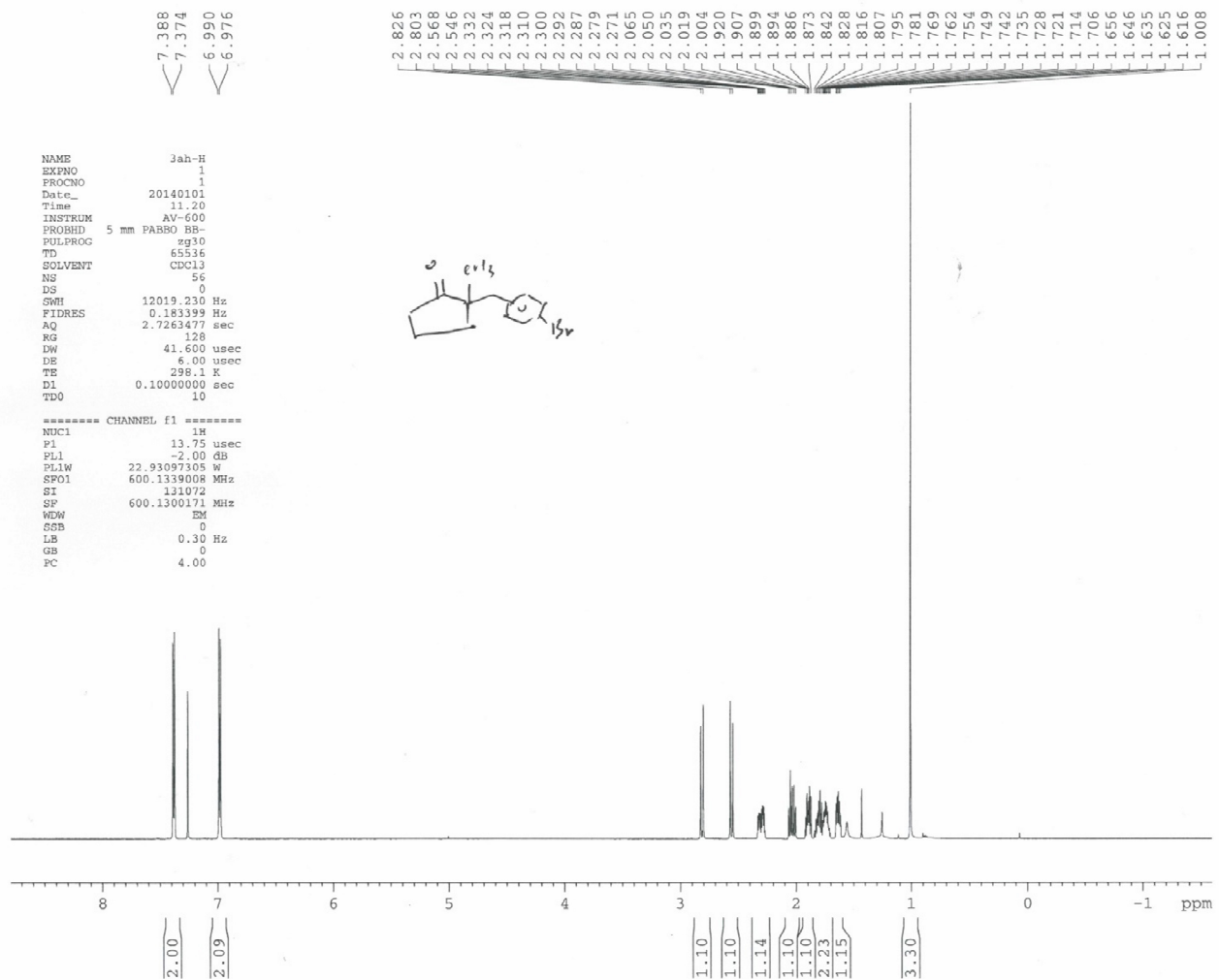
¹H NMR spectra of compound **3ag**



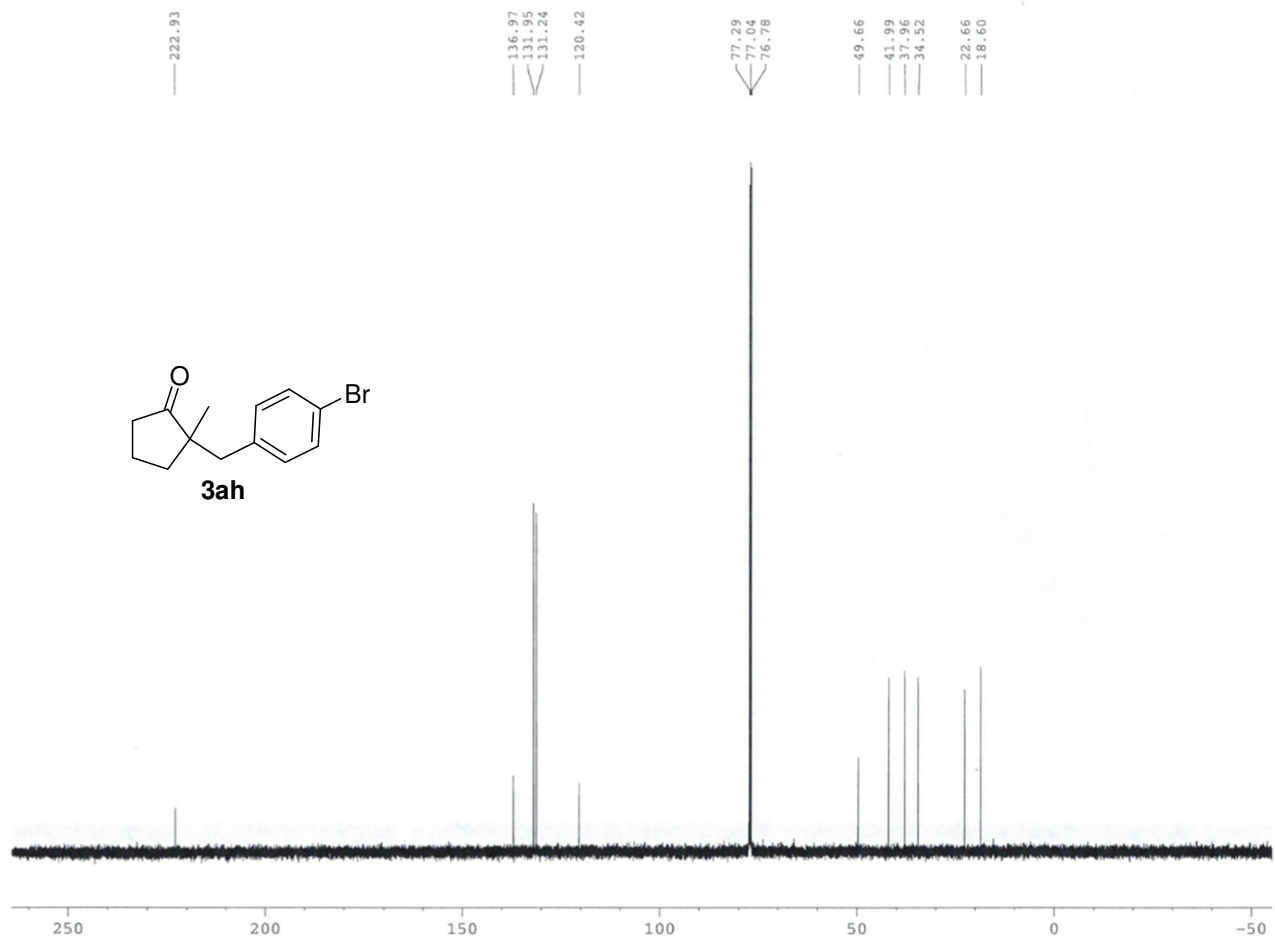
¹³C NMR spectra of compound **3ag**



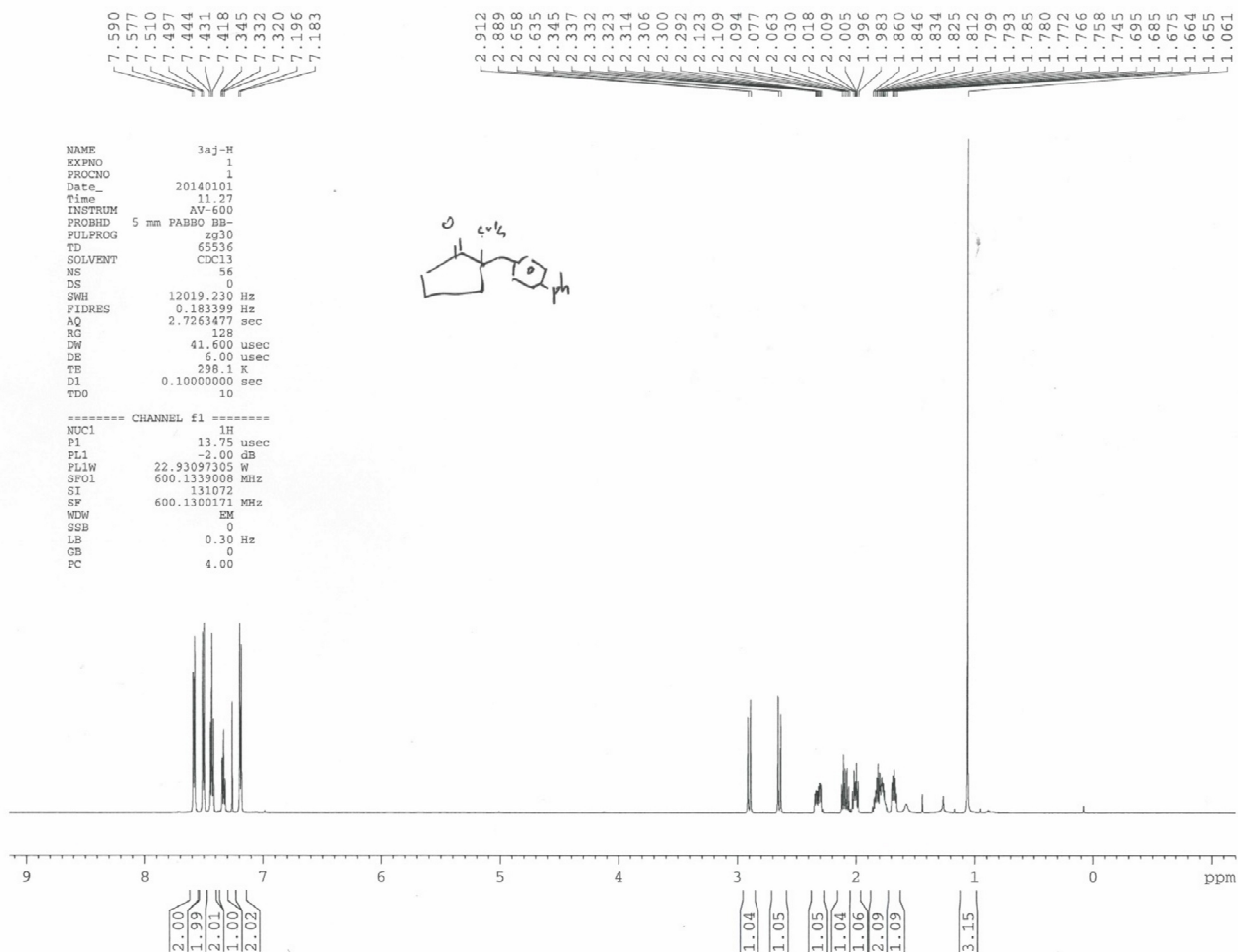
¹H NMR spectra of compound 3ah



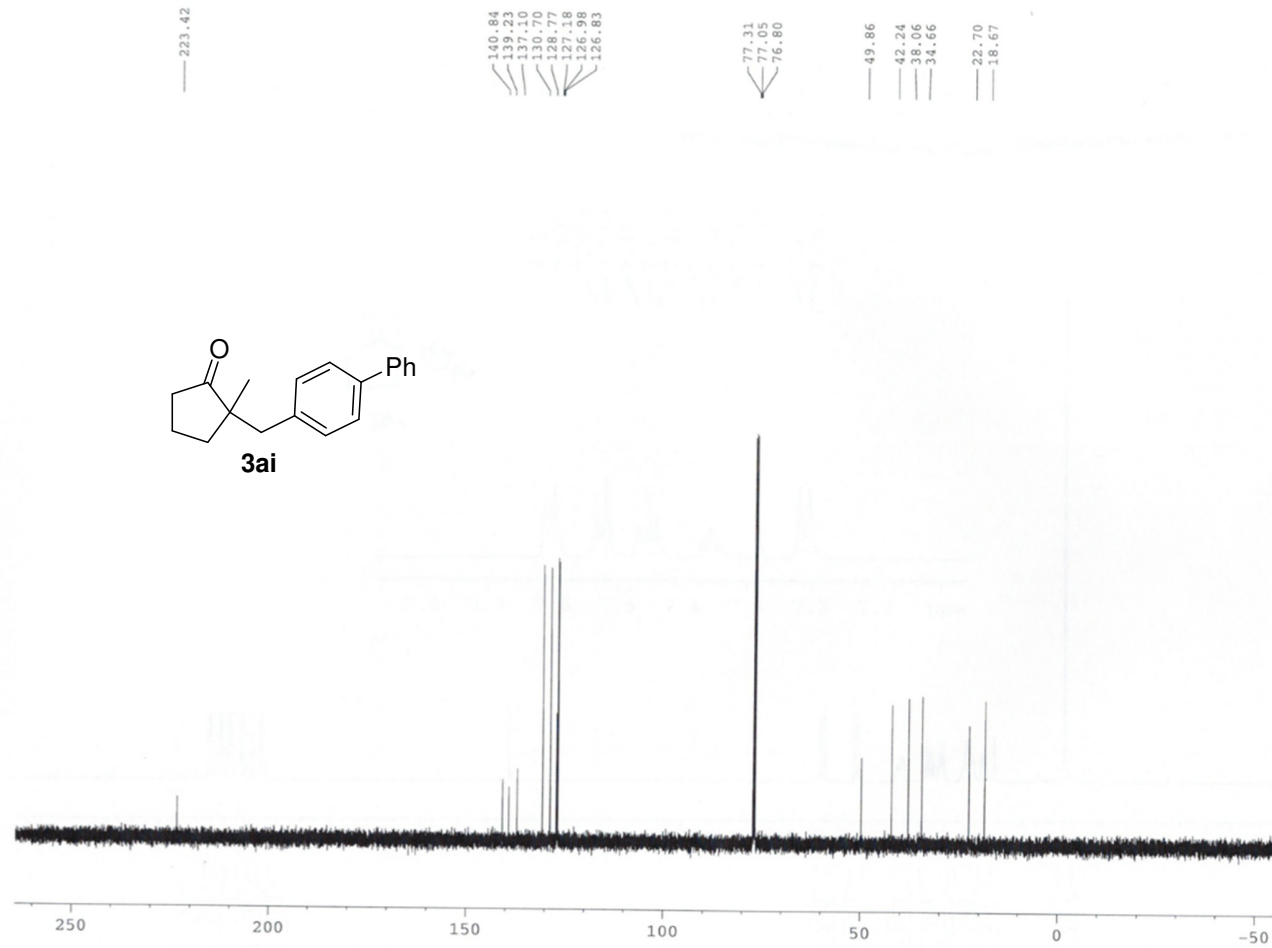
^{13}C NMR spectra of compound **3ah**



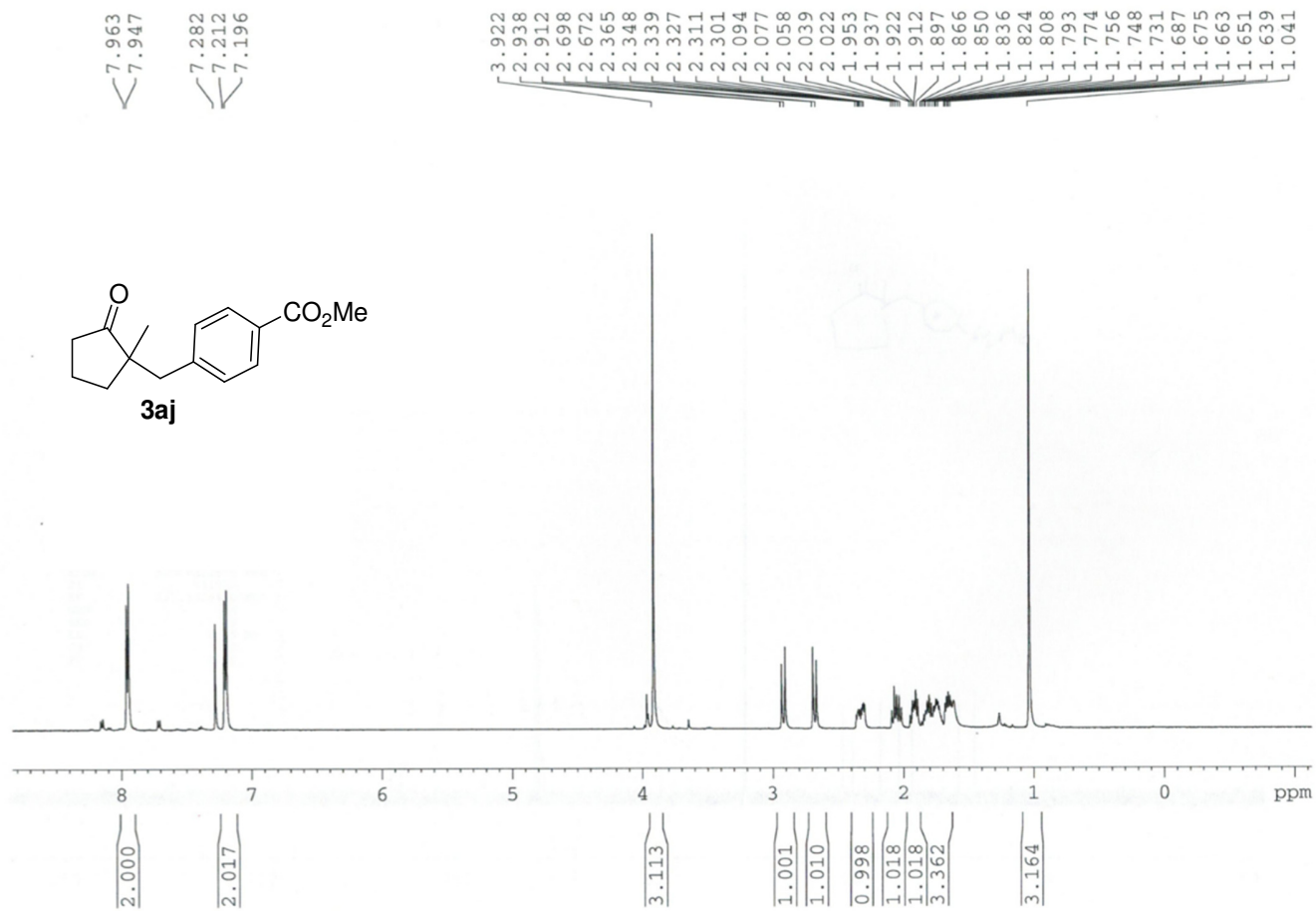
¹H NMR spectra of compound 3ai



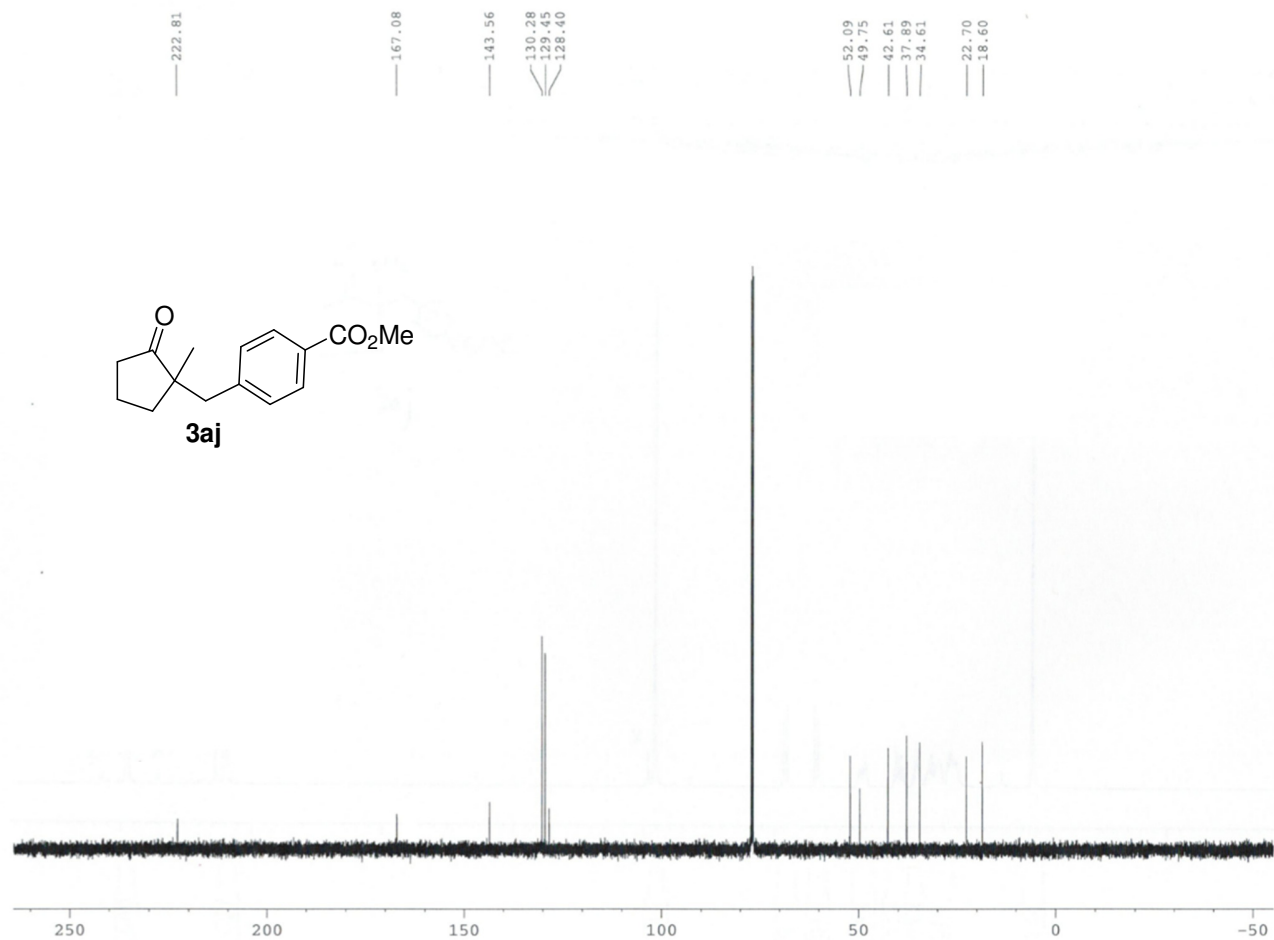
¹³C NMR spectra of compound **3ai**



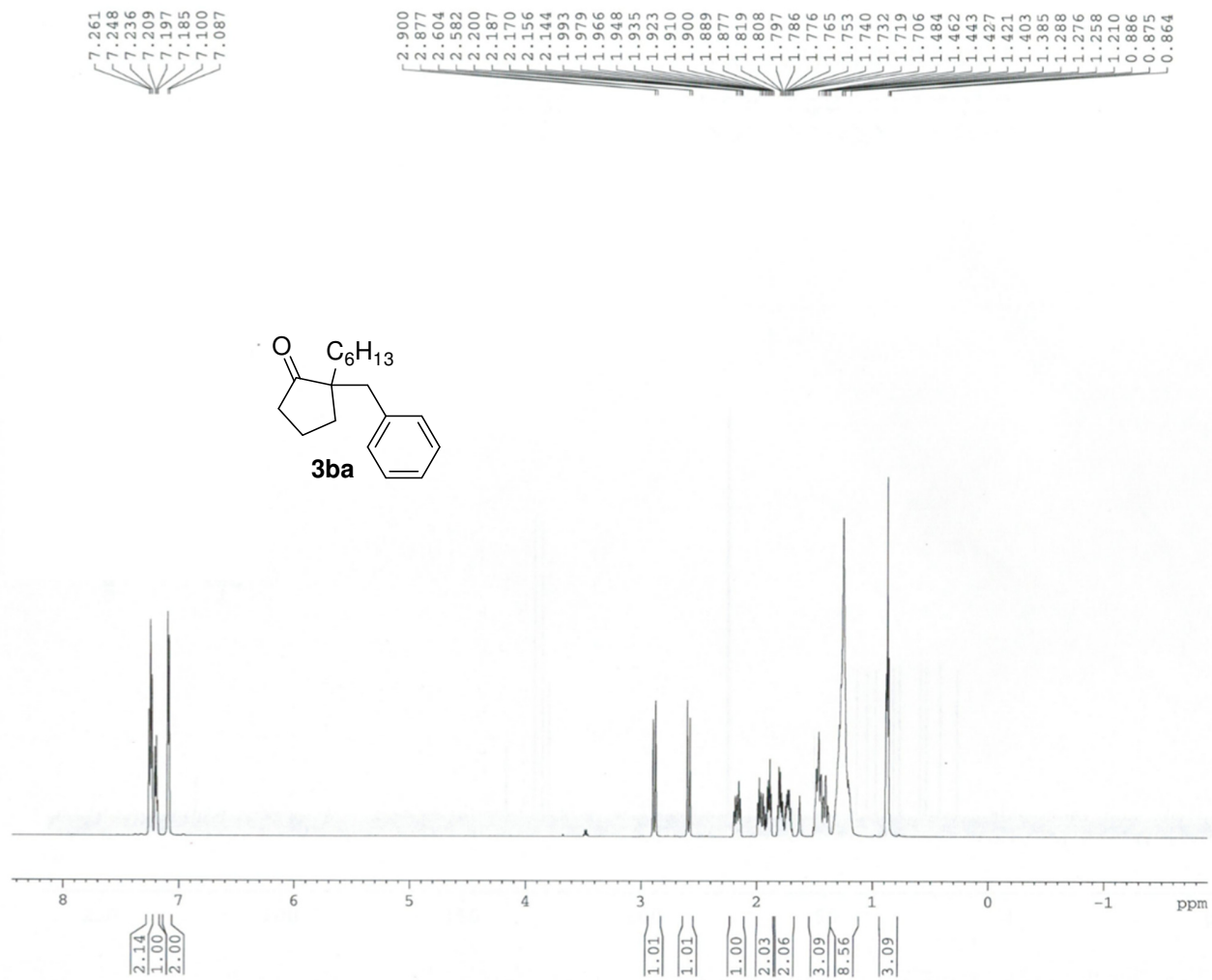
¹H NMR spectra of compound **3aj**



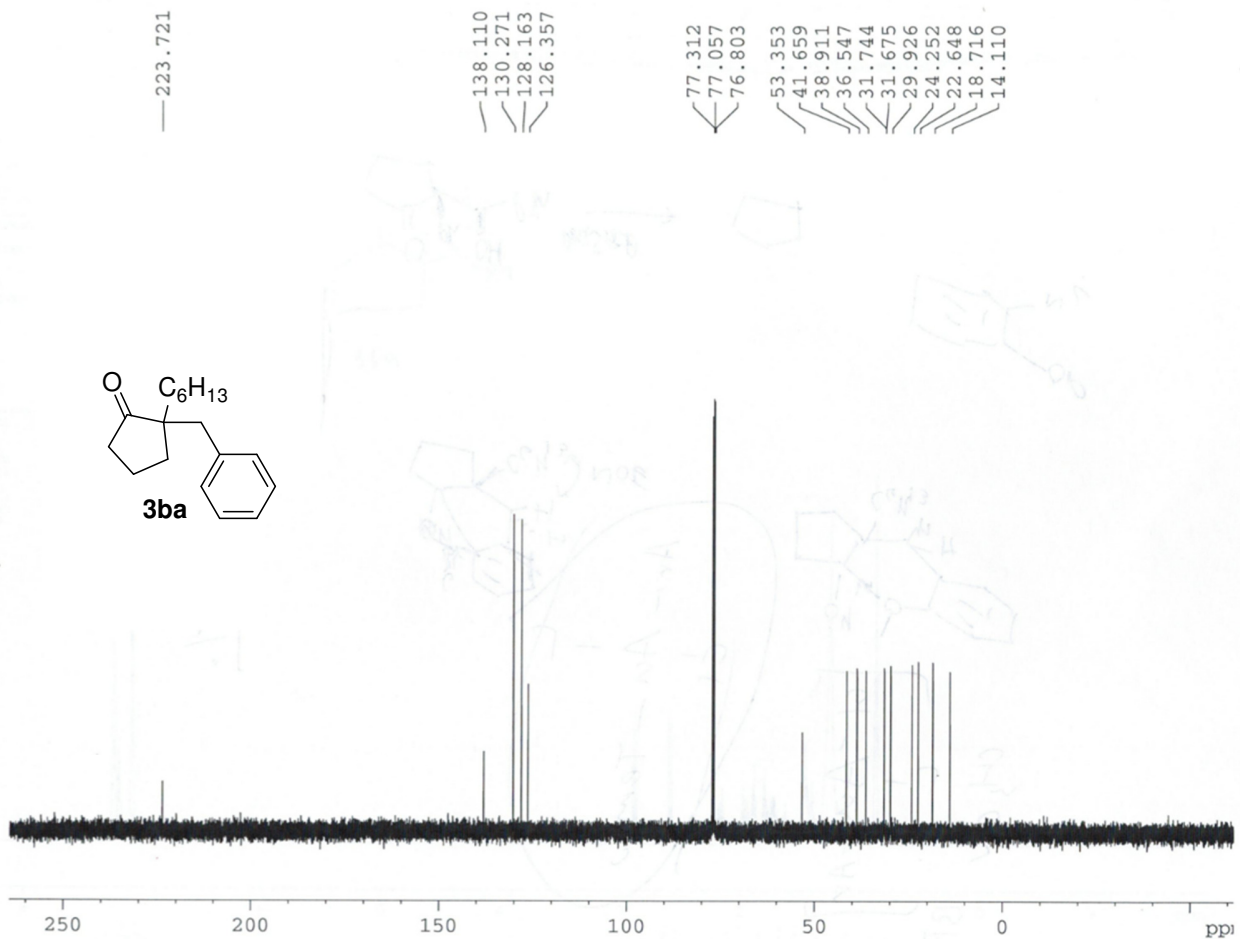
¹³C NMR spectra of compound **3aj**



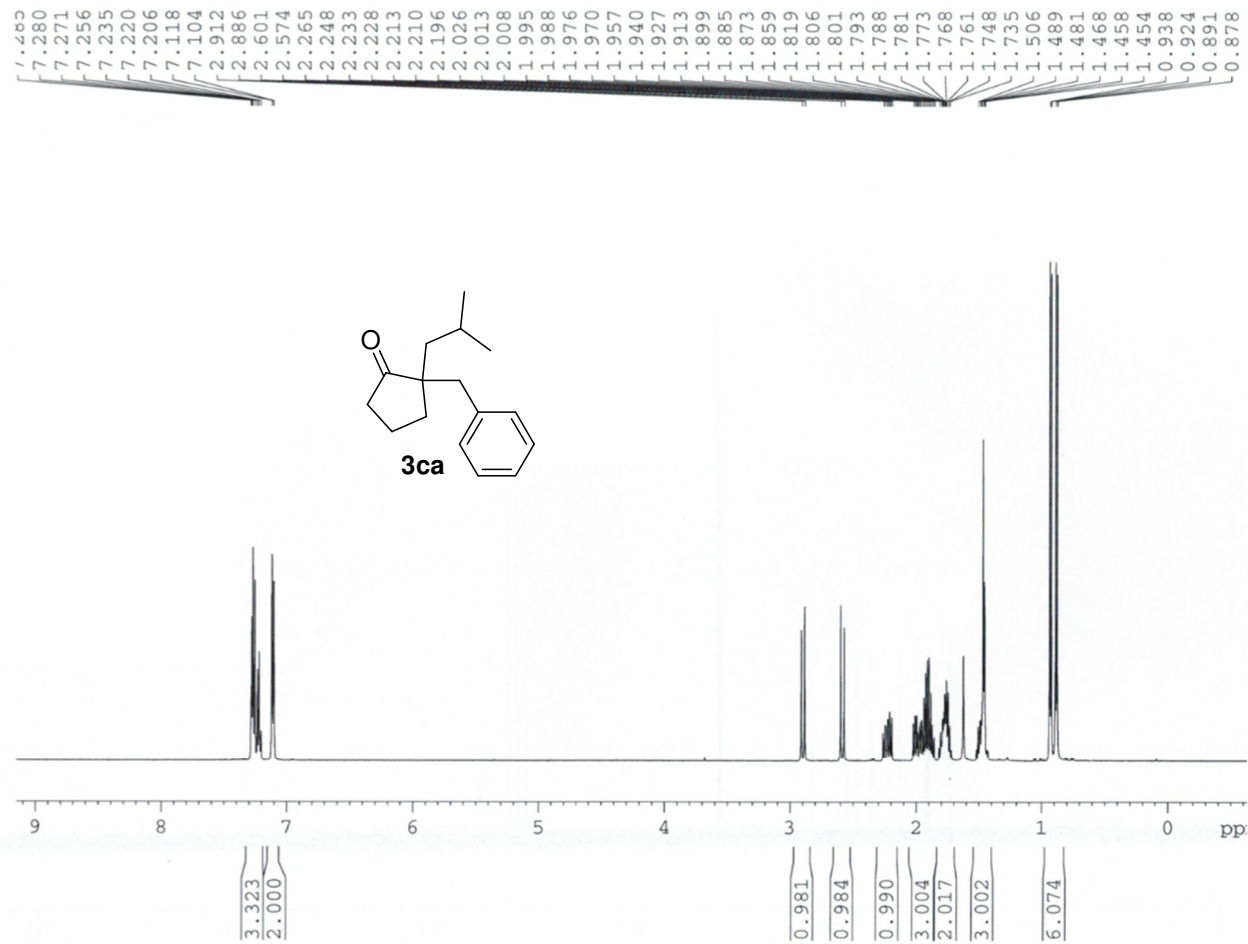
¹H NMR spectra of compound **3ba**



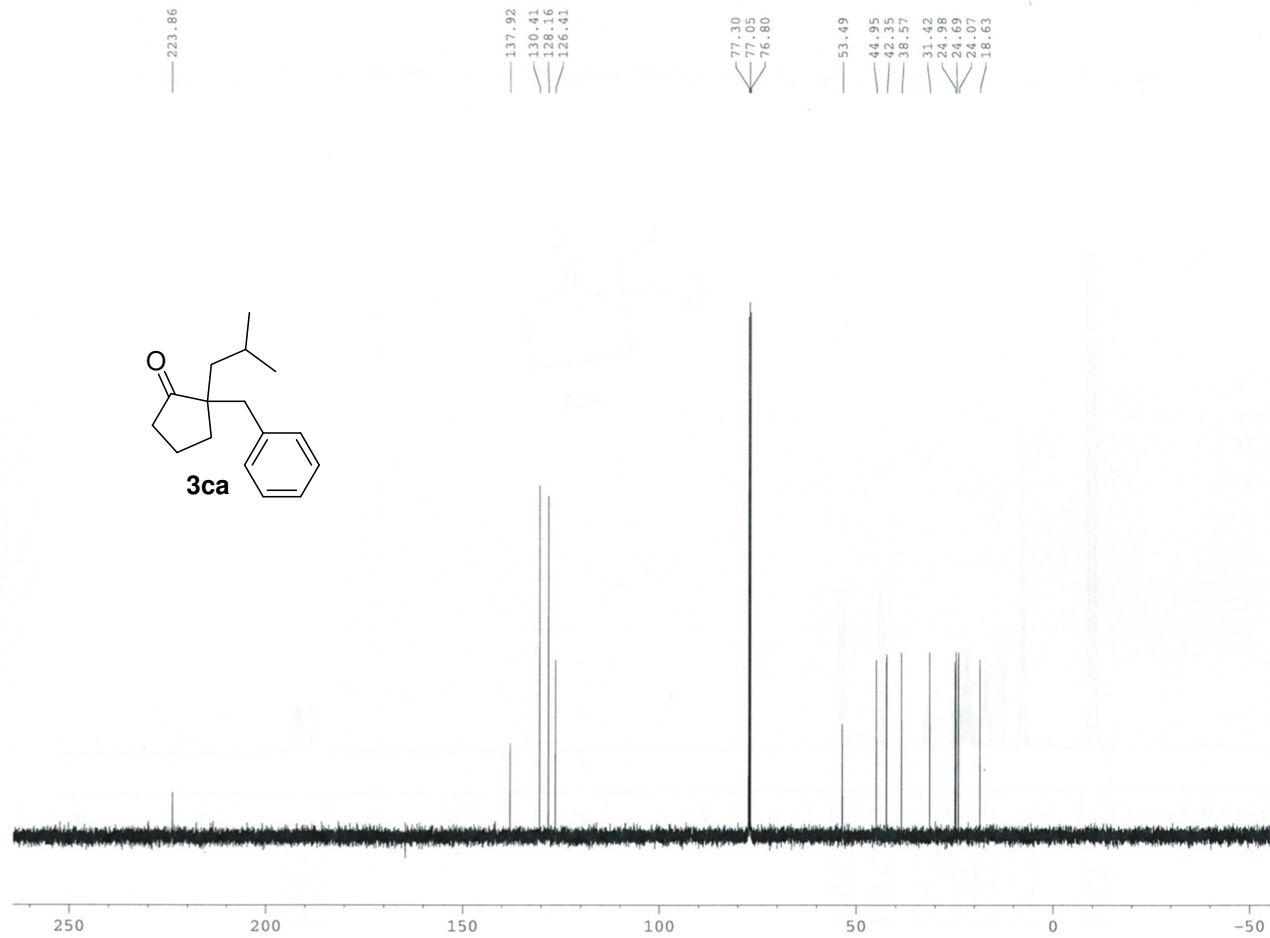
¹³C NMR spectra of compound **3ba**



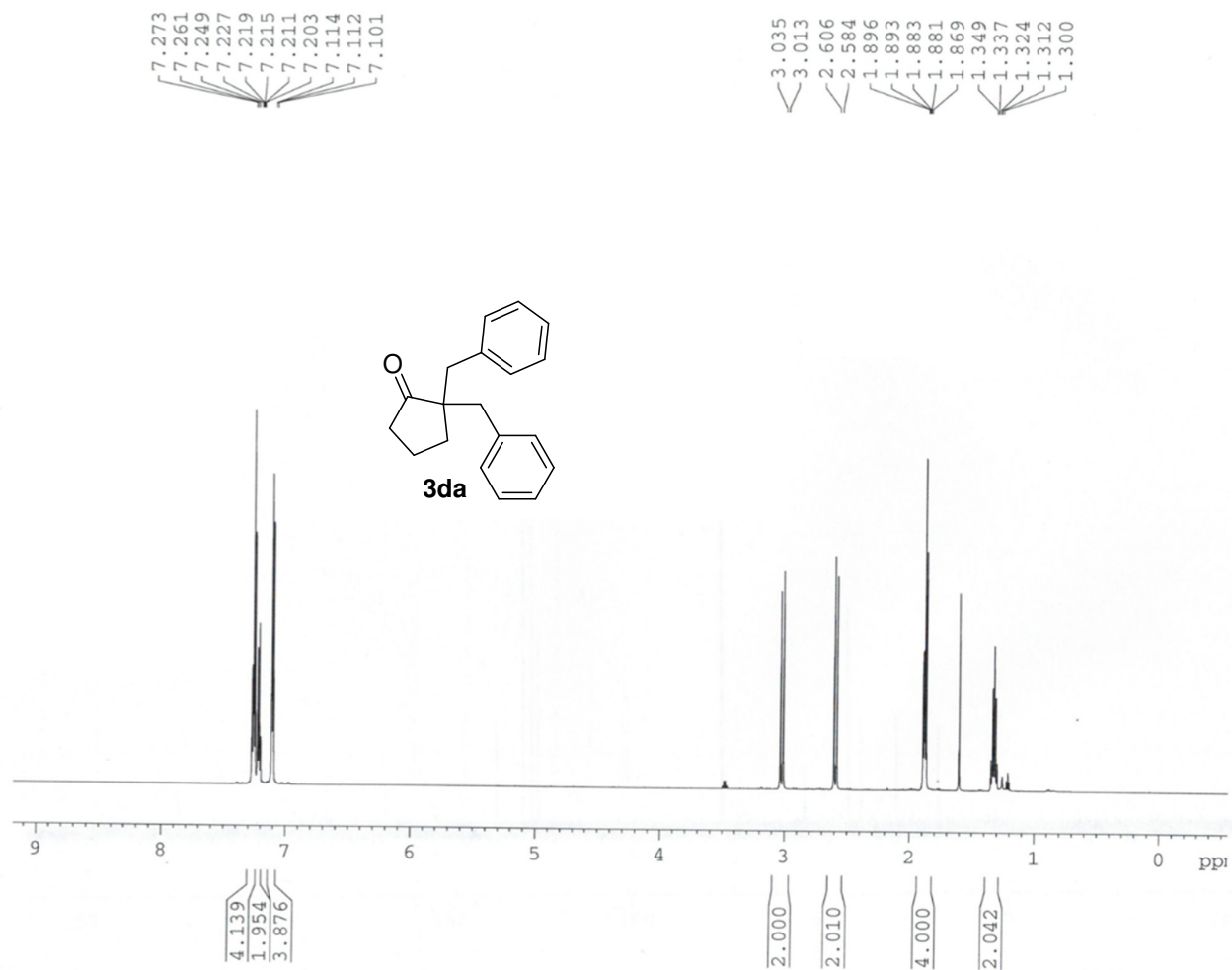
¹H NMR spectra of compound **3ca**



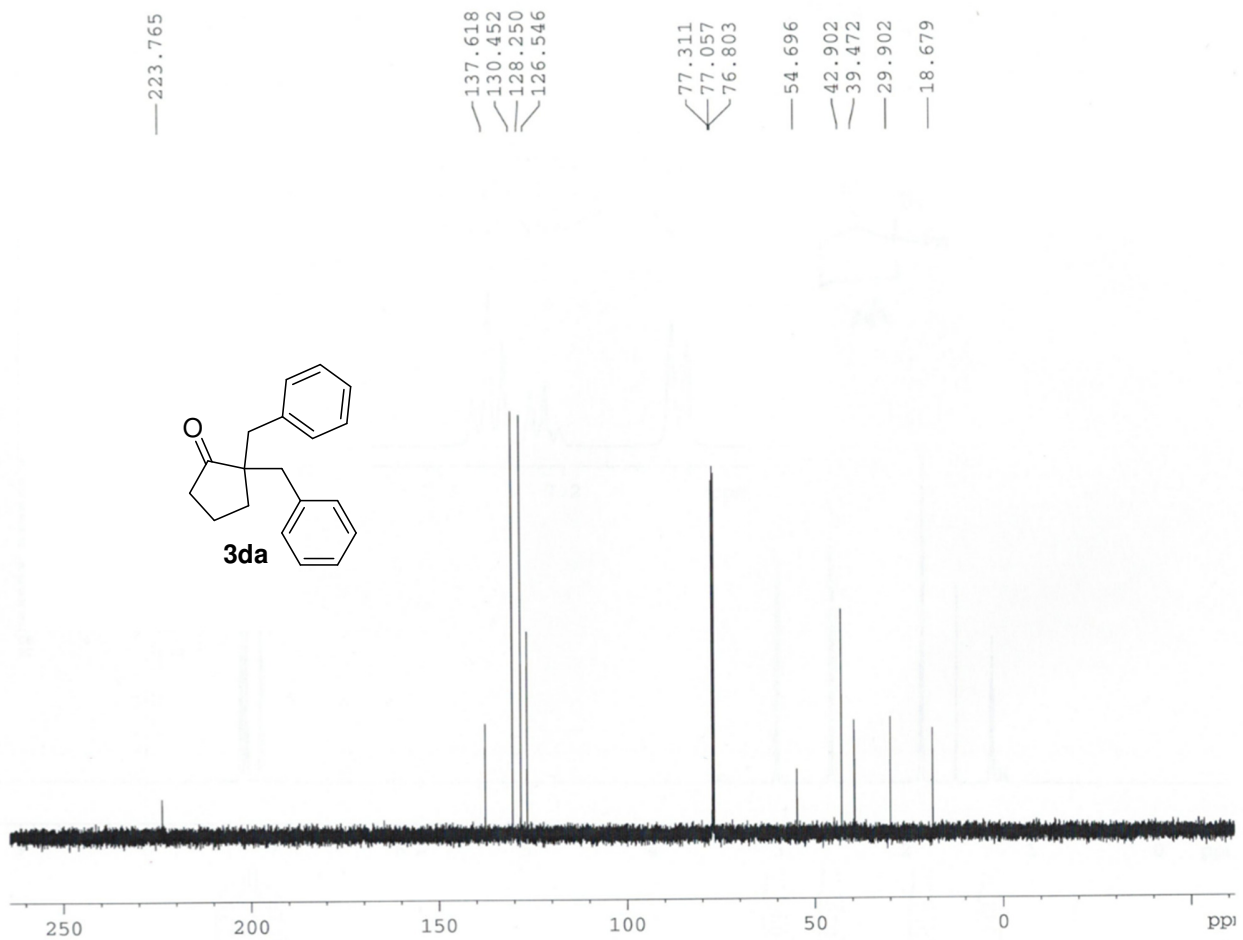
^{13}C NMR spectra of compound **3ca**



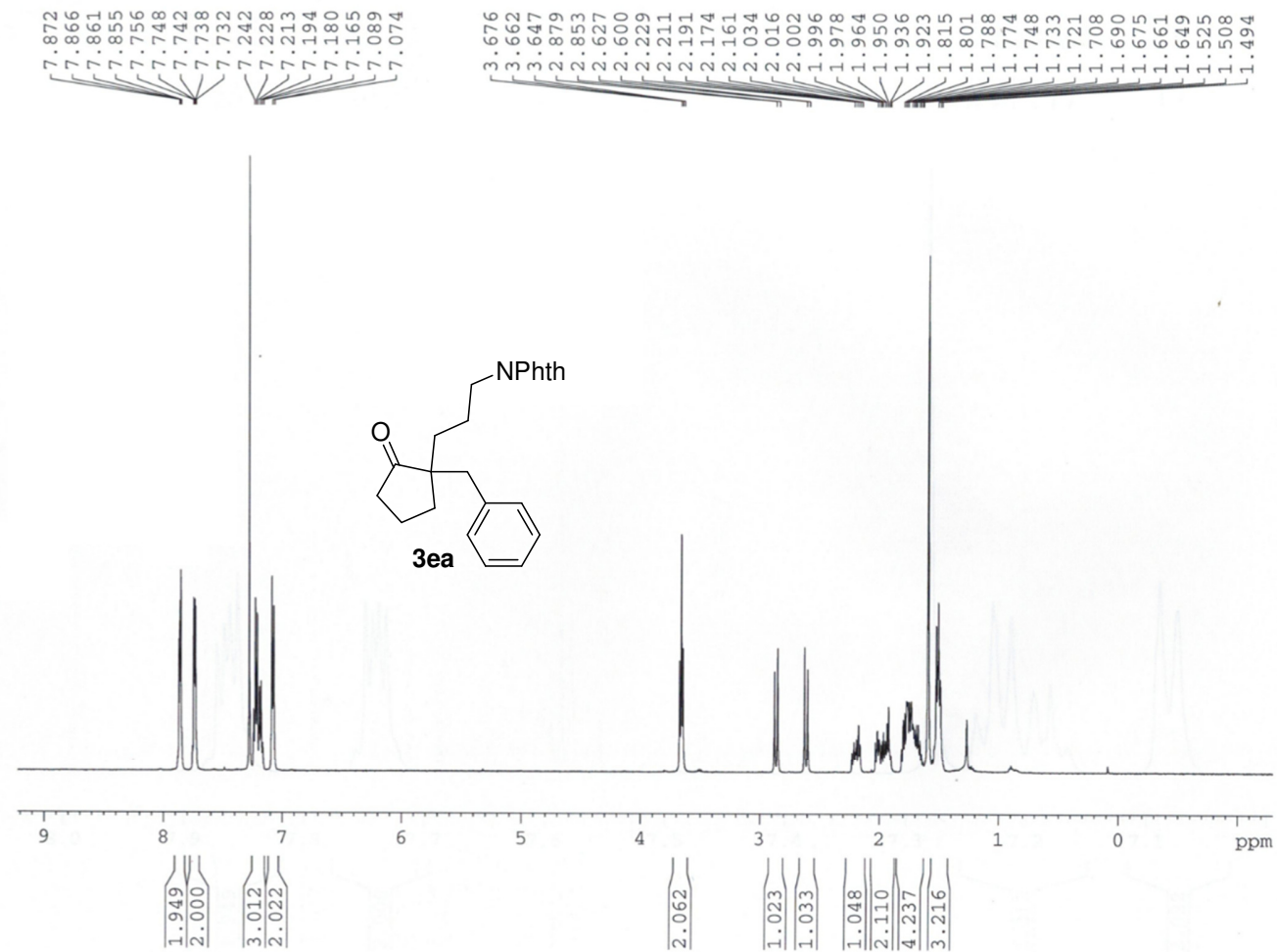
¹H NMR spectra of compound **3da**



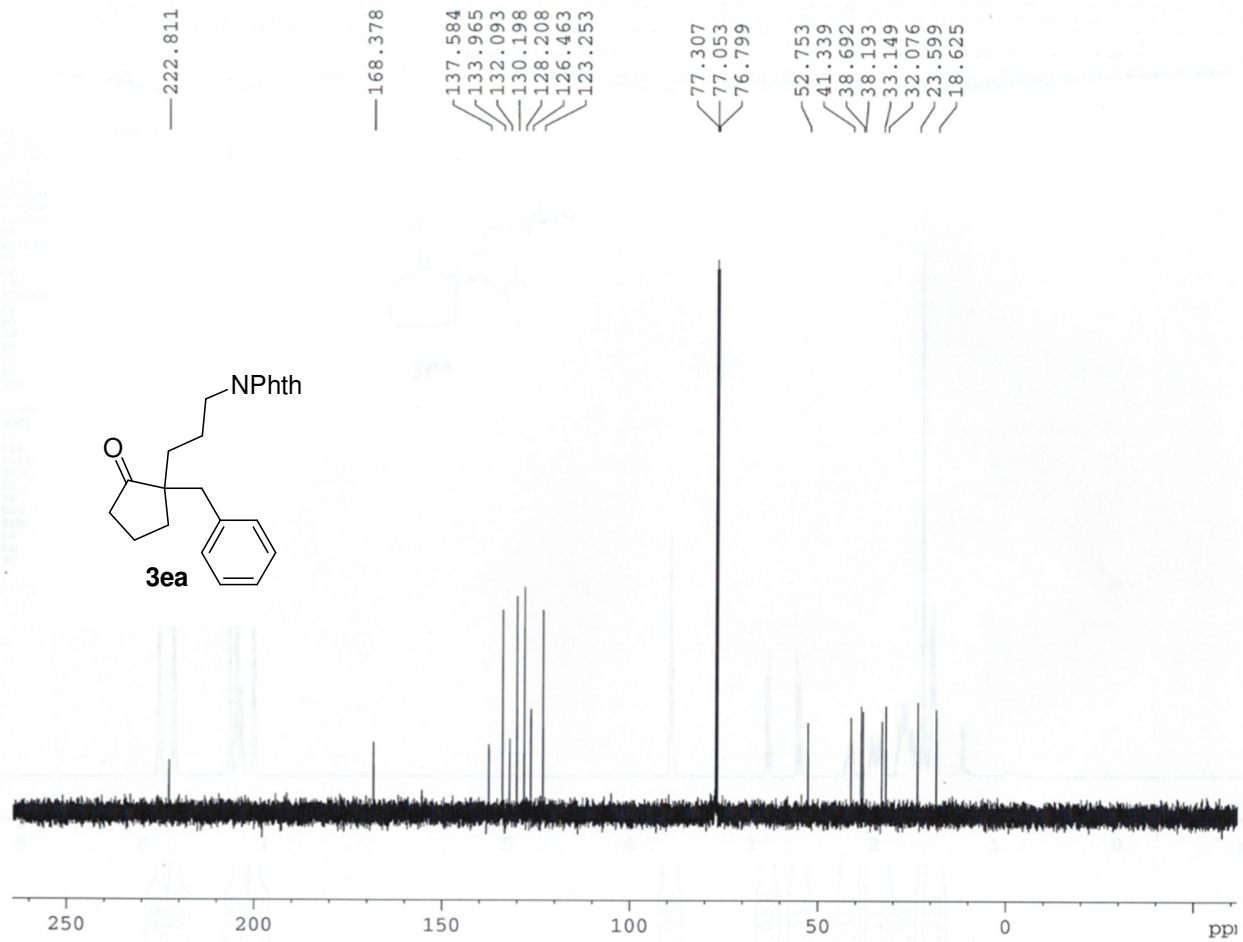
¹³C NMR spectra of compound **3da**



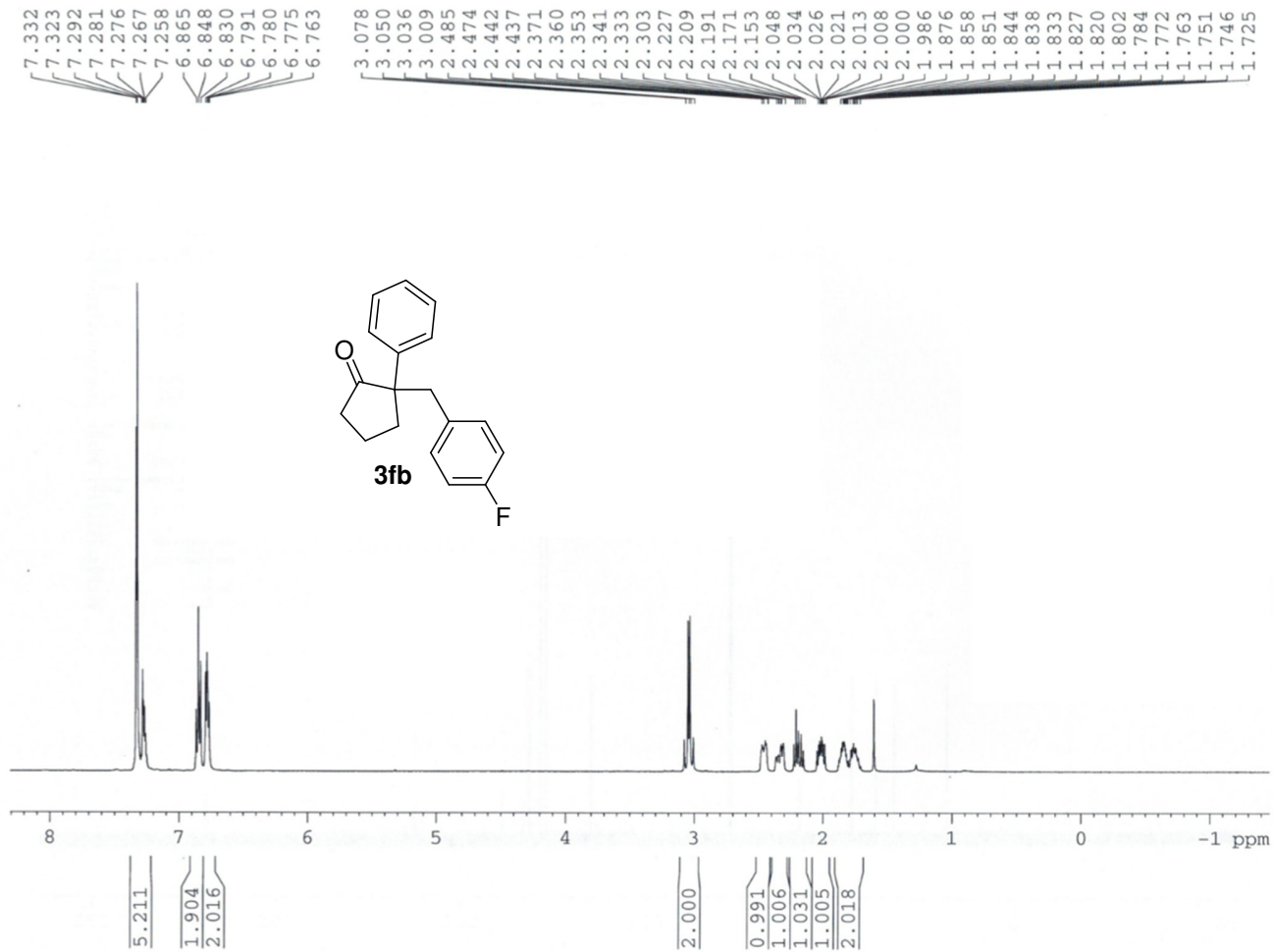
¹H NMR spectra of compound **3ea**



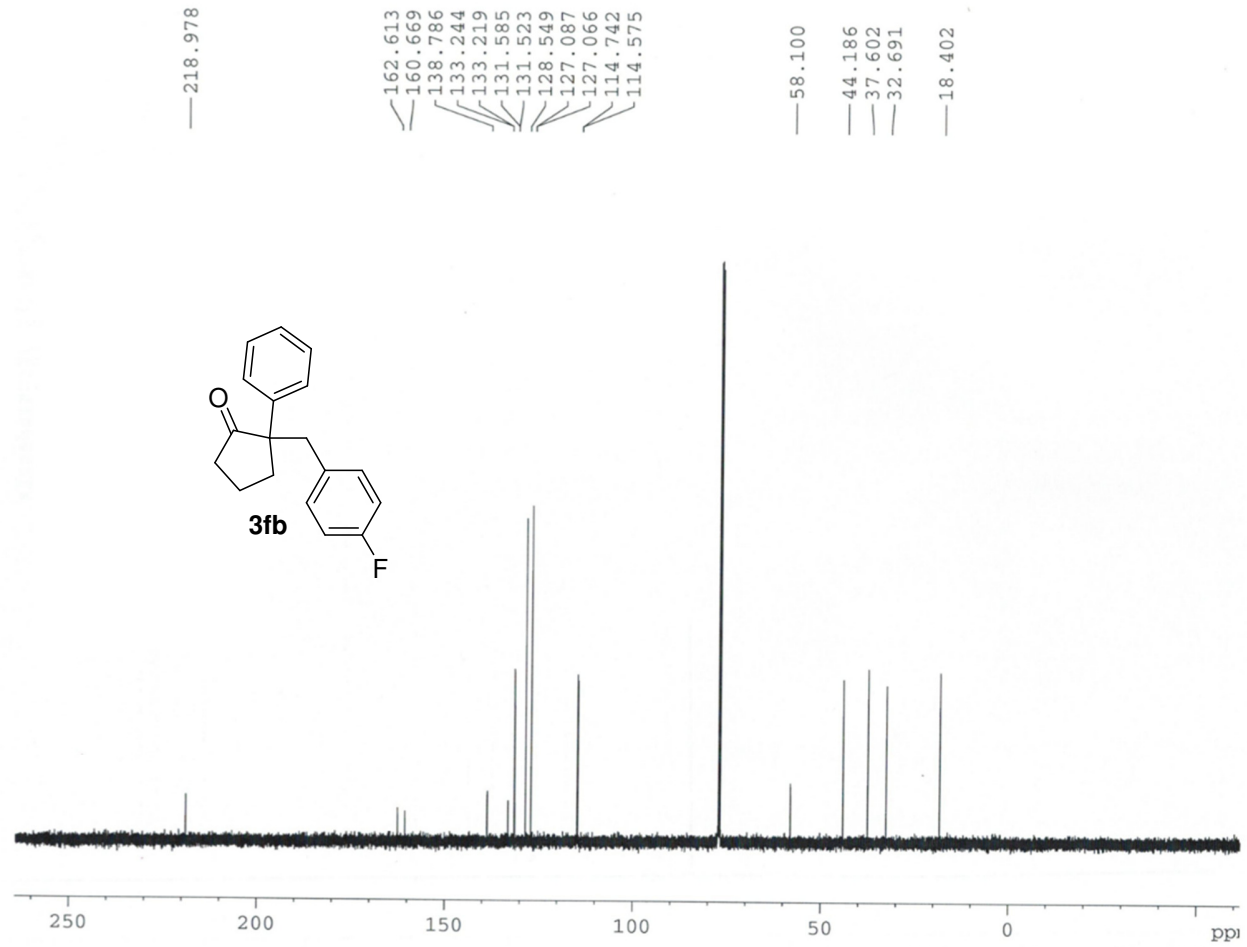
¹³C NMR spectra of compound **3ea**



¹H NMR spectra of compound **3fb**

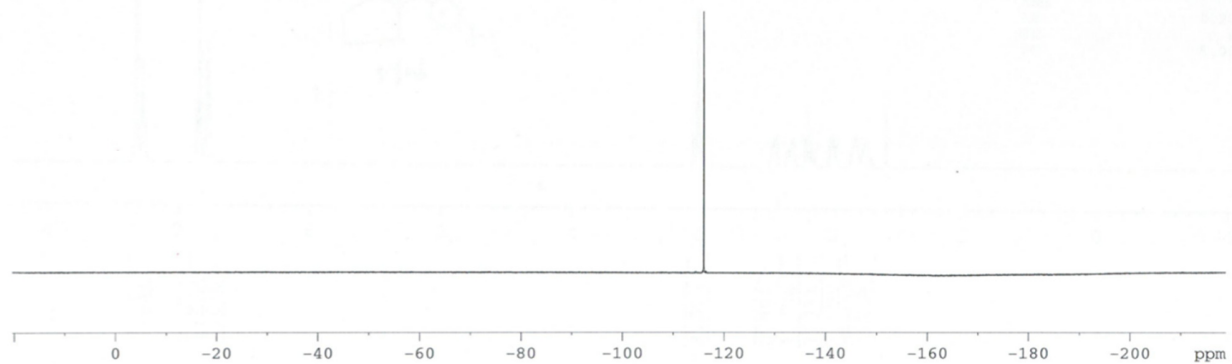
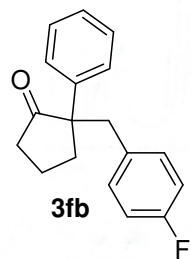


¹³C NMR spectra of compound **3fb**

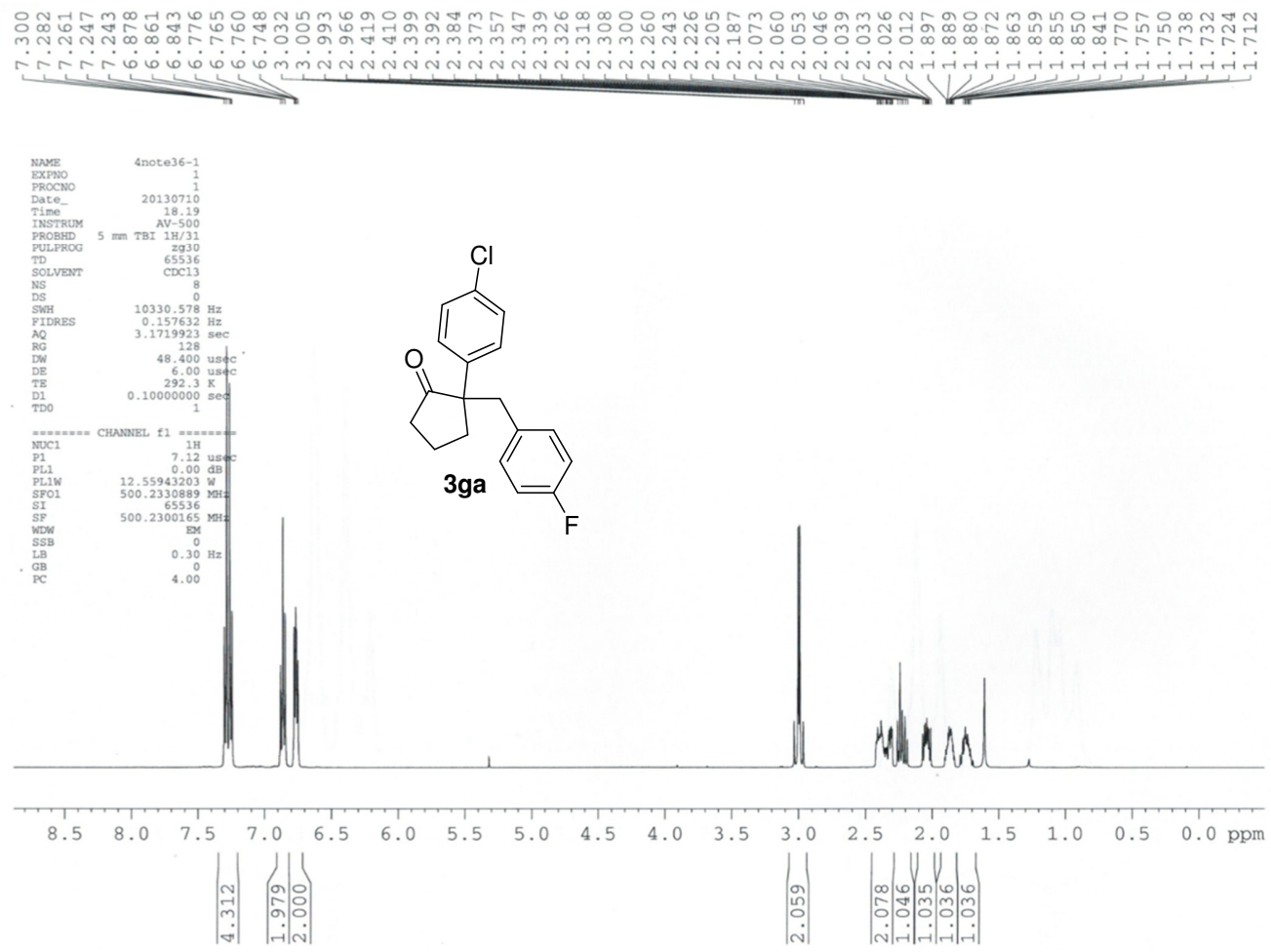


^{19}F NMR spectra of compound **3fb**

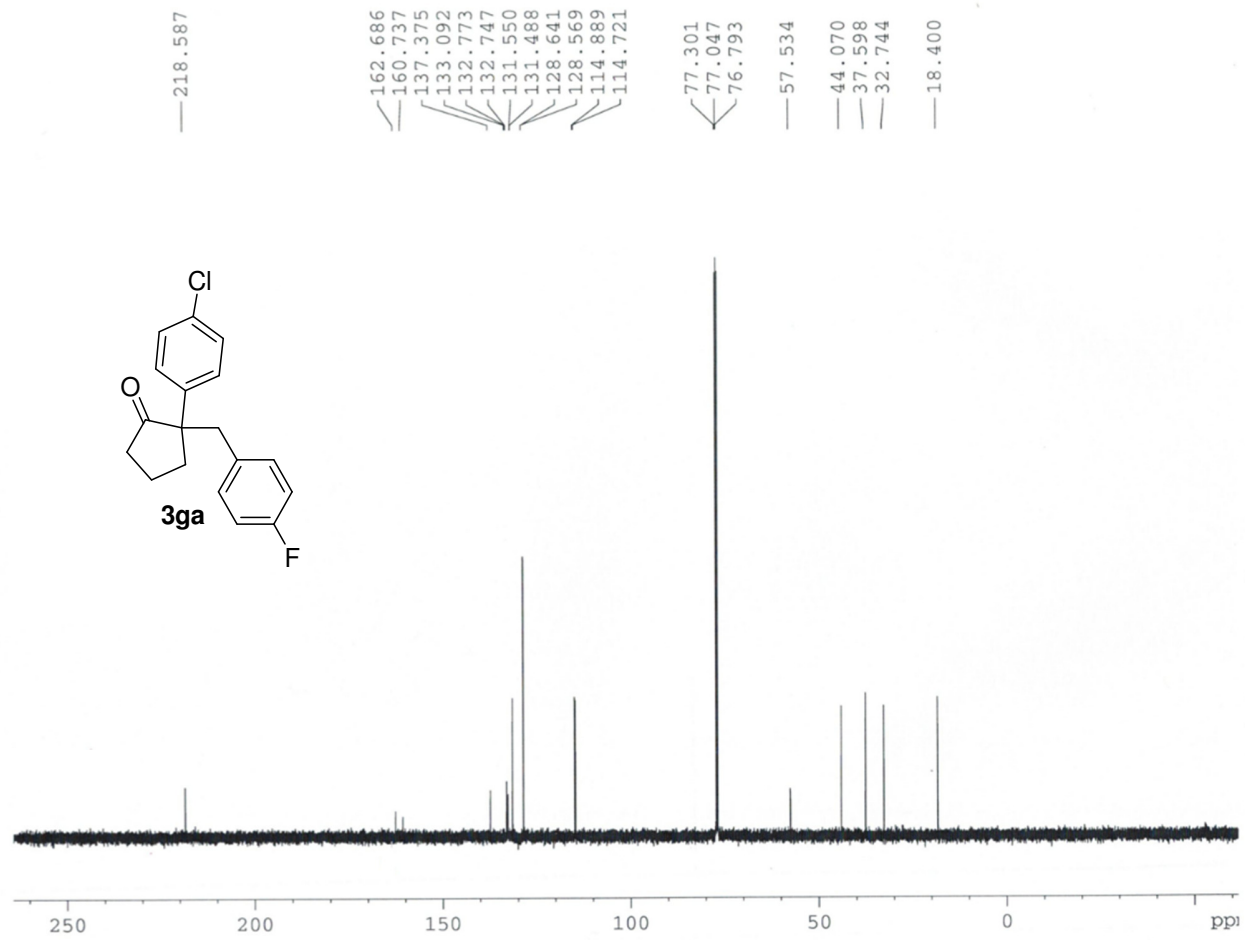
-115.98
-116.00
-116.01
-116.03
-116.04
-116.05



¹H NMR spectra of compound 3ga

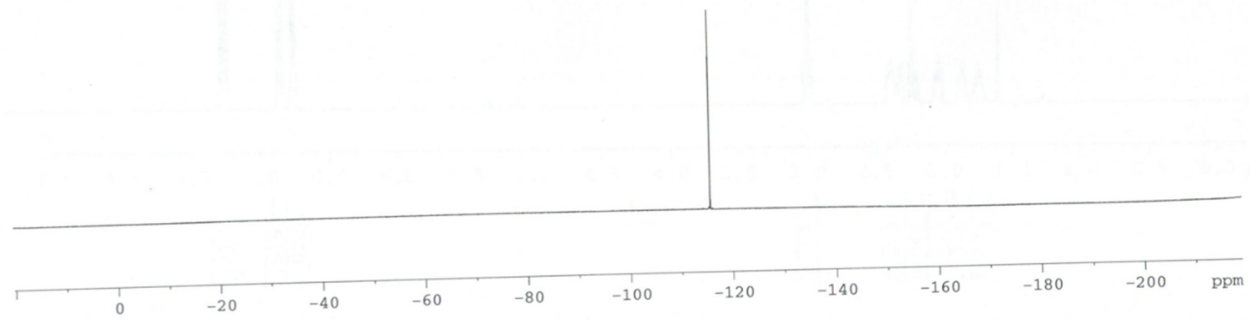
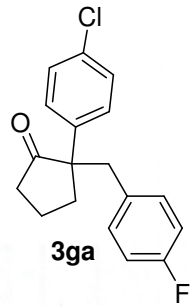


¹³C NMR spectra of compound **3ga**

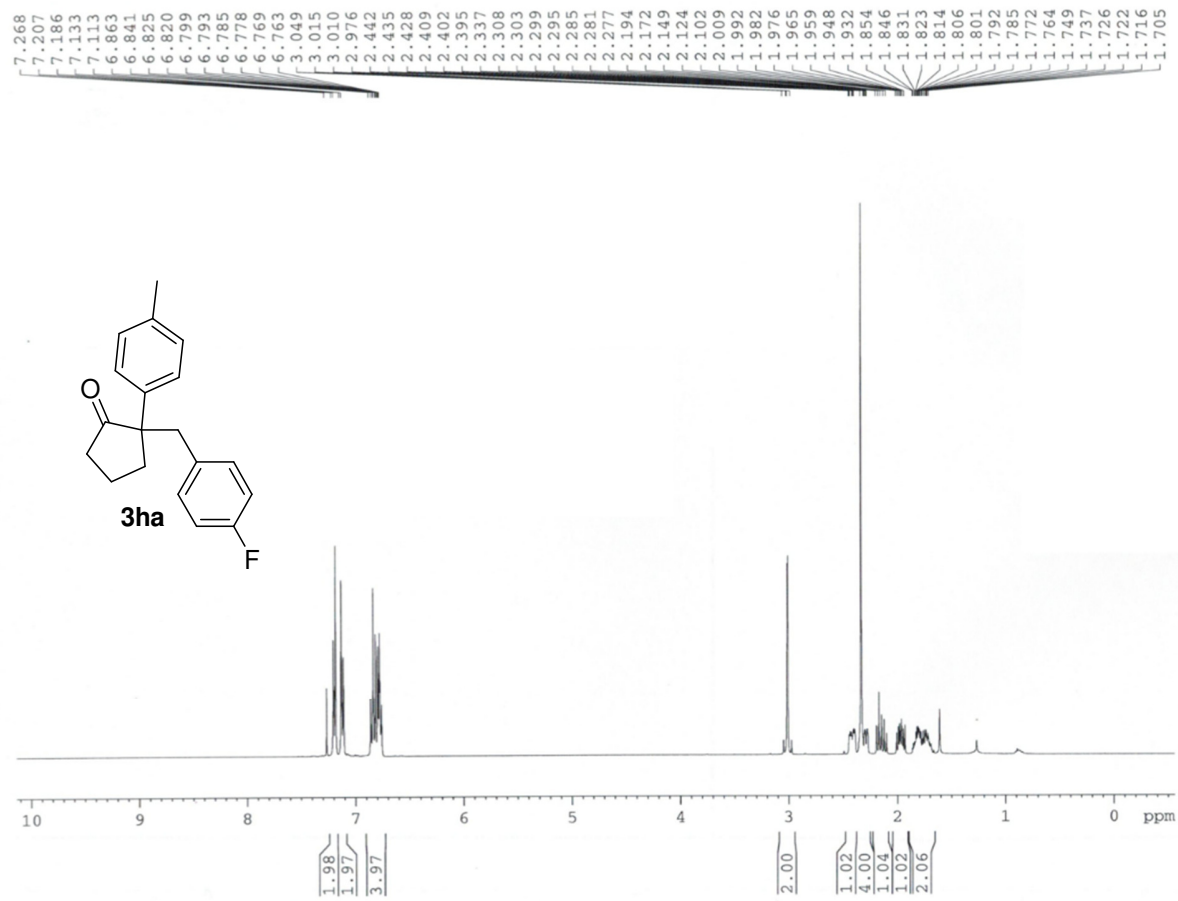


¹⁹F NMR spectra of compound **3ga**

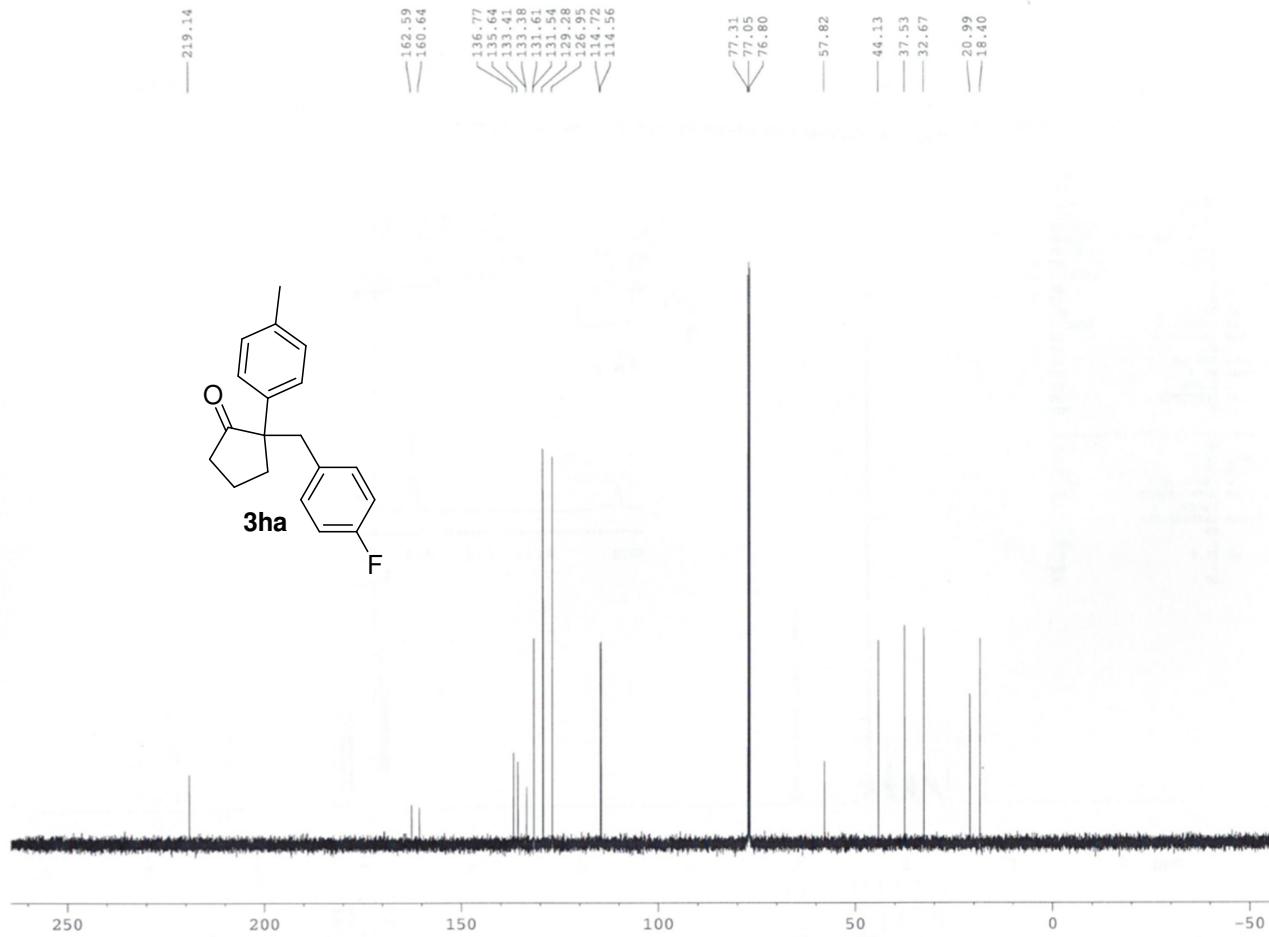
-115.60
-115.63
-115.64
-115.66
-115.66
-115.68



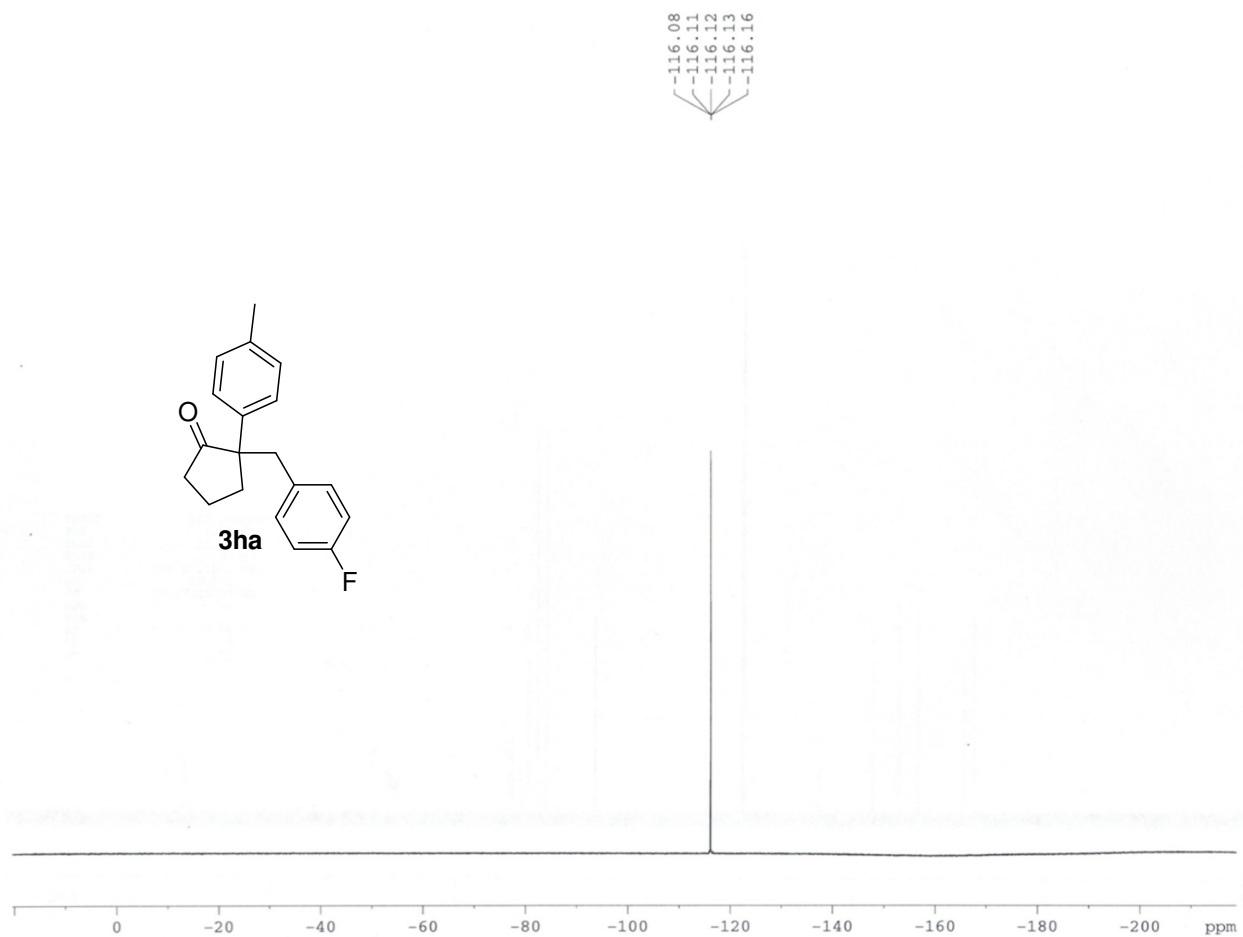
¹H NMR spectra of compound **3ha**



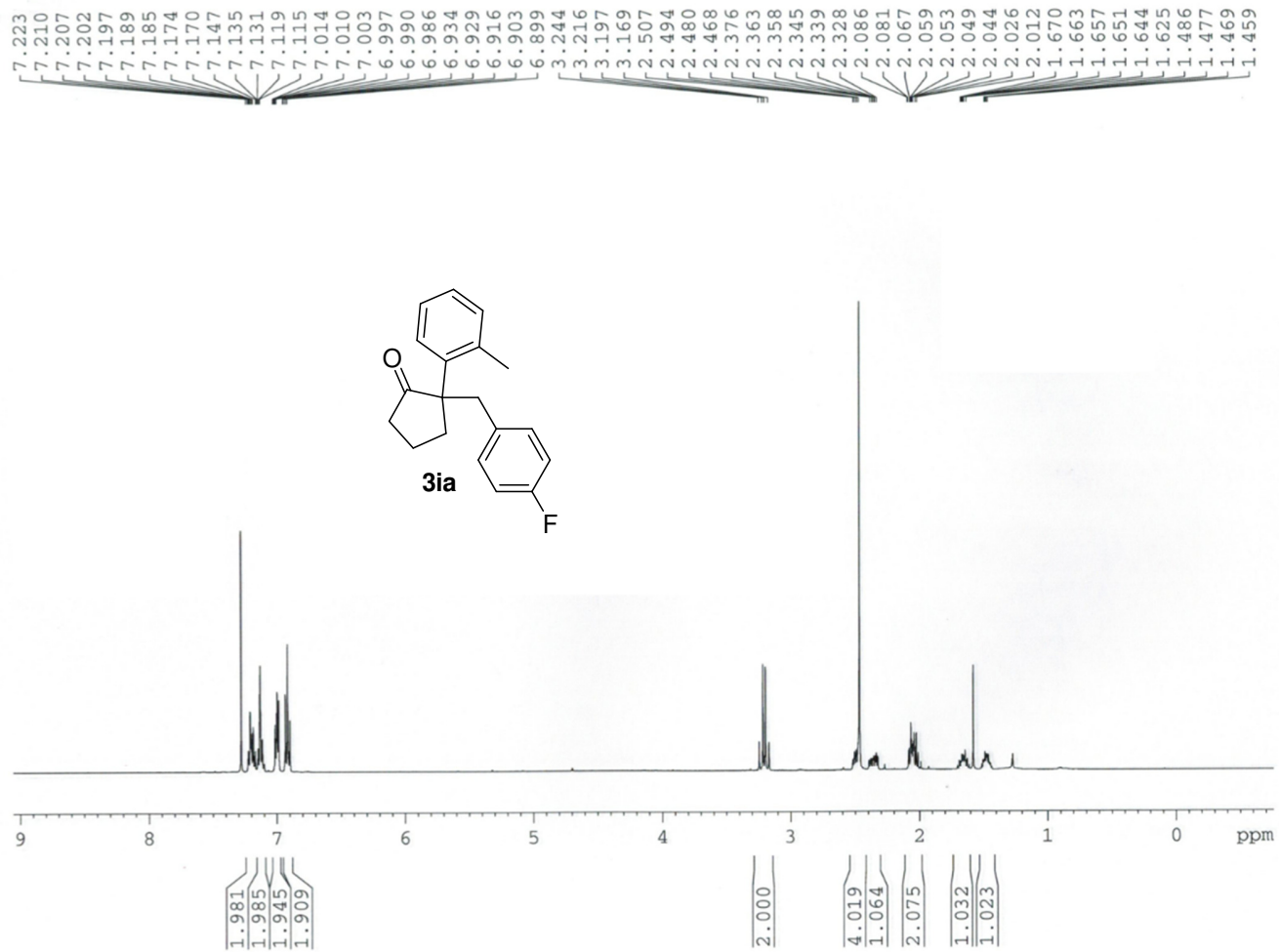
¹³C NMR spectra of compound **3ha**



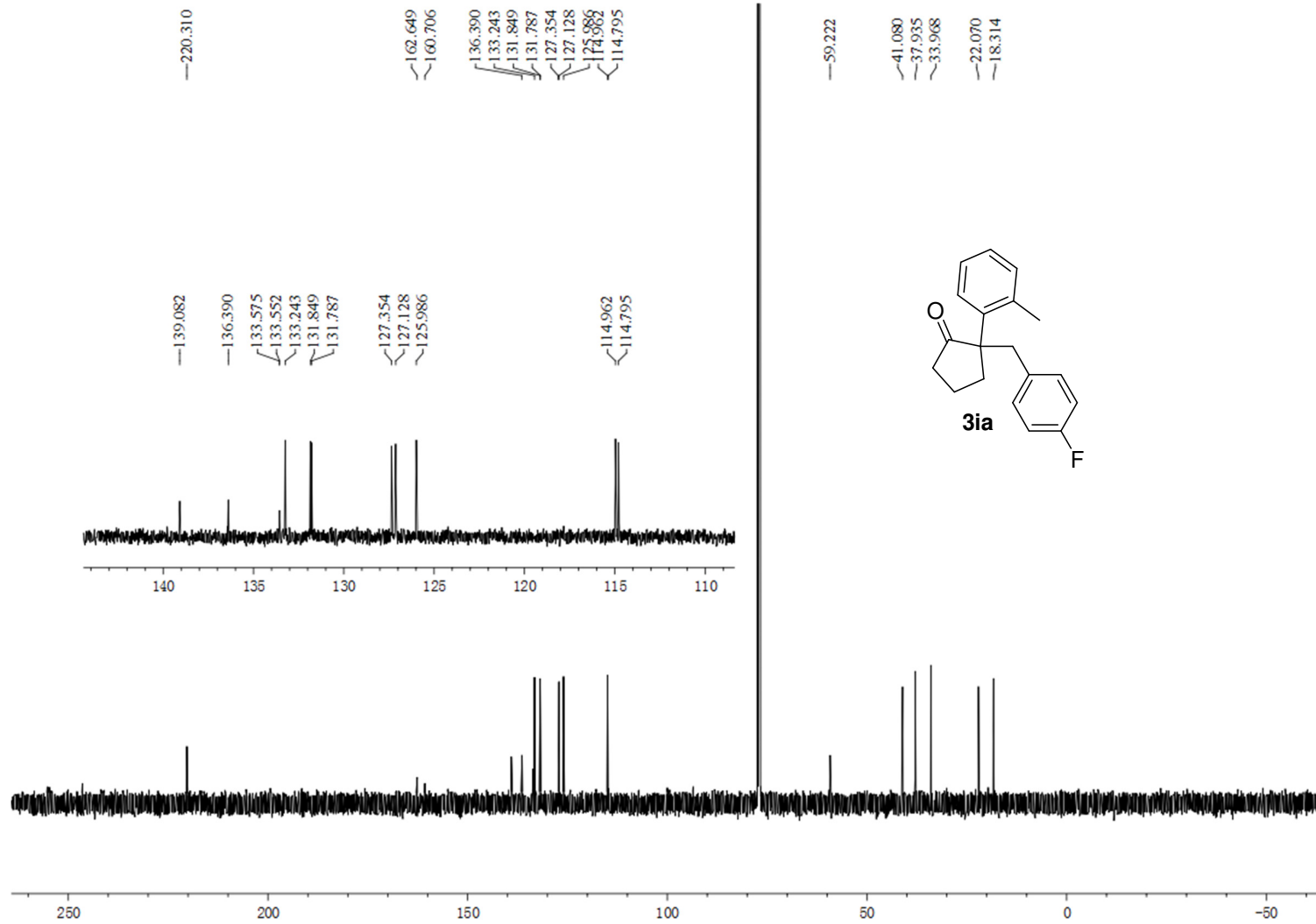
¹⁹F NMR spectra of compound **3ha**



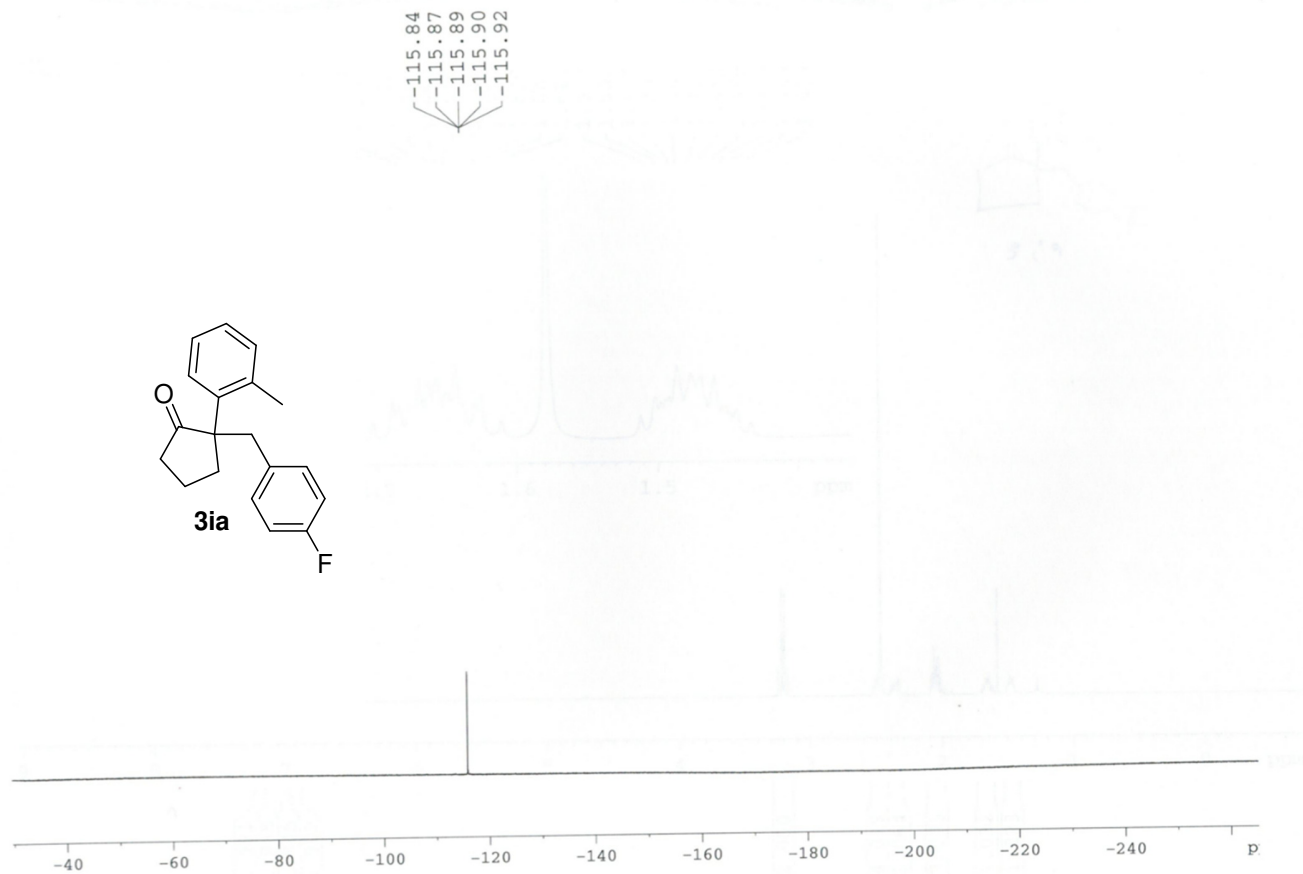
¹H NMR spectra of compound **3ia**



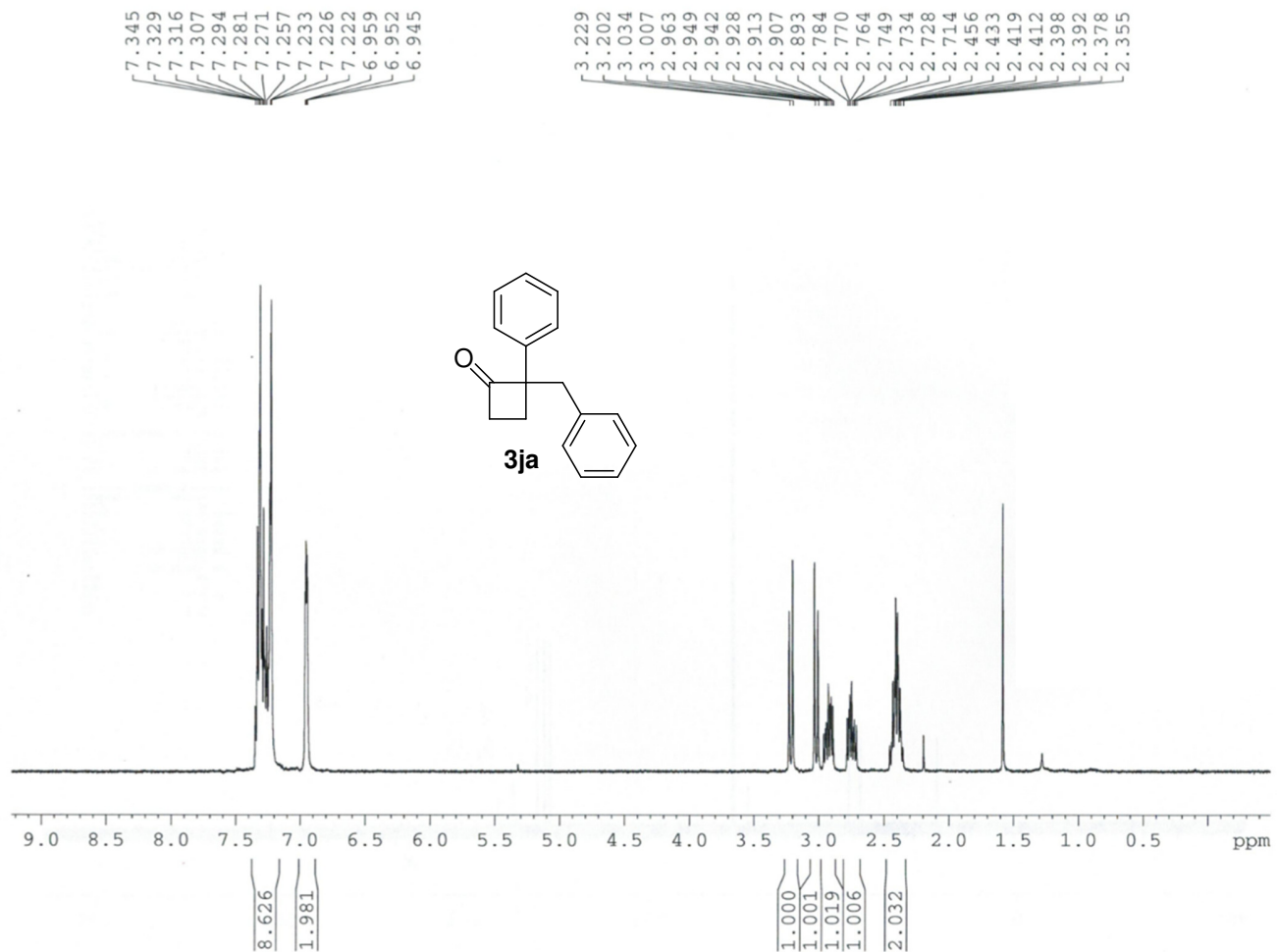
¹³C NMR spectra of compound **3ia**



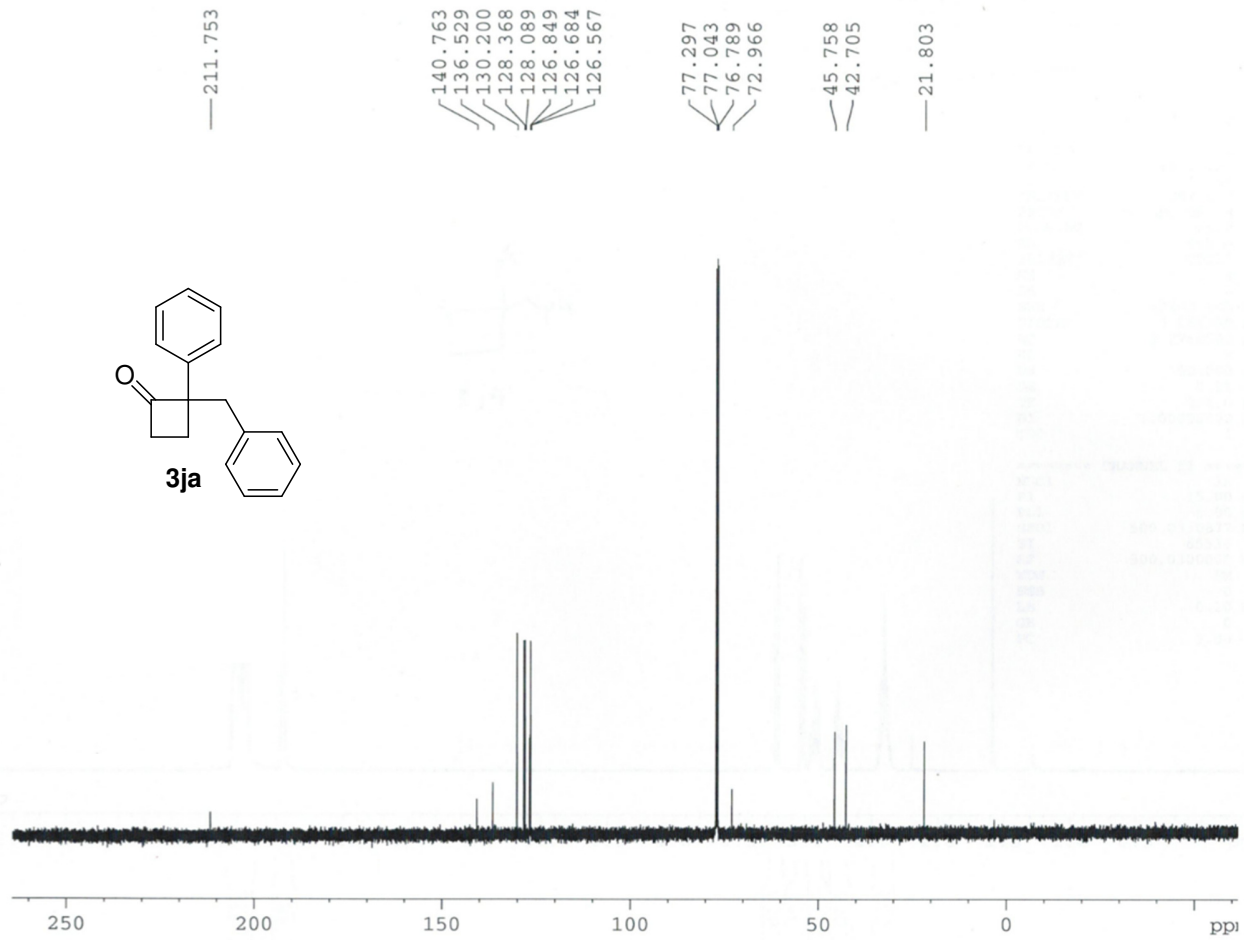
¹⁹F NMR spectra of compound **3ia**



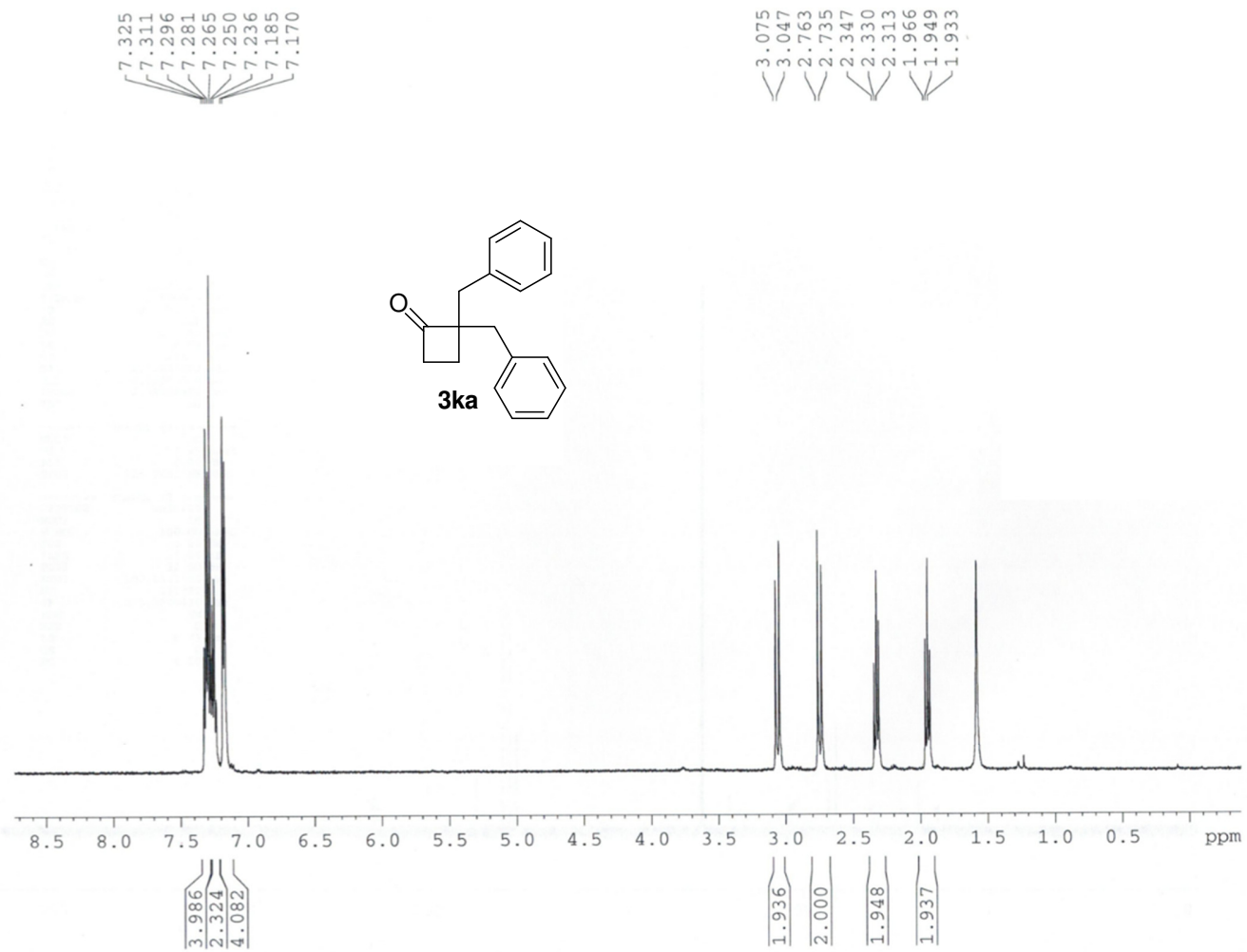
¹H NMR spectra of compound **3ja**



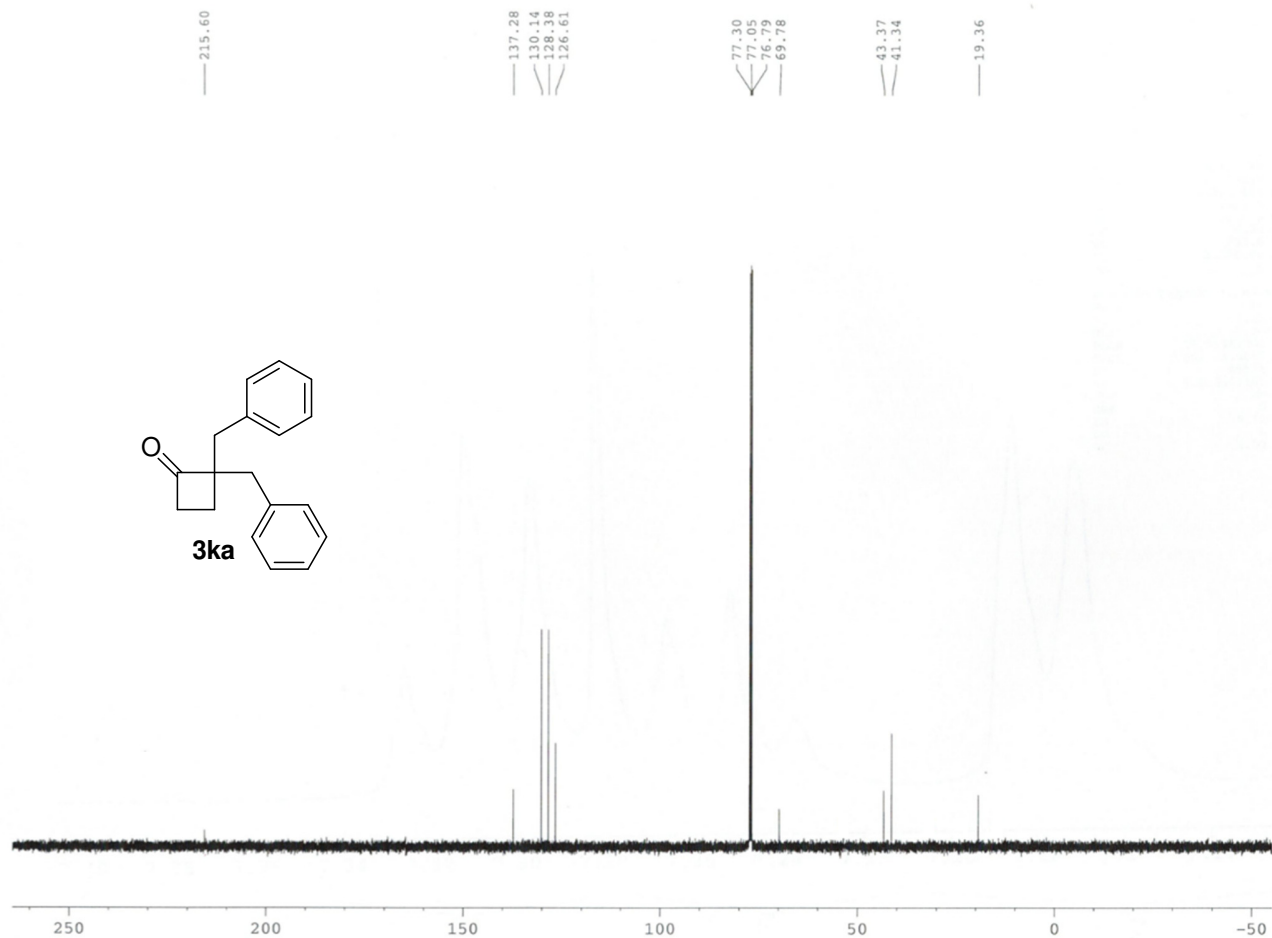
¹³C NMR spectra of compound **3ja**



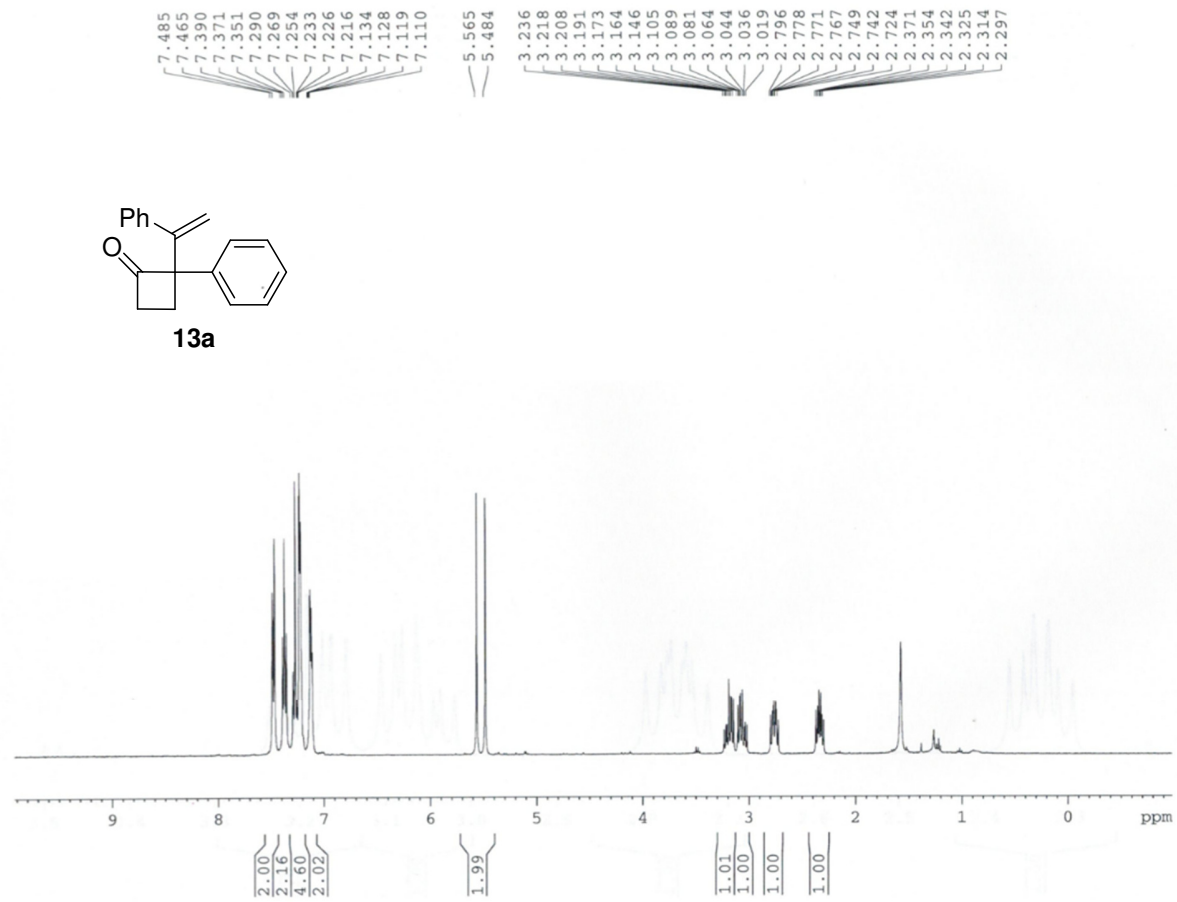
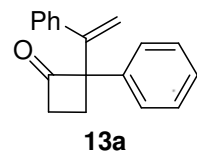
¹H NMR spectra of compound **3ka**



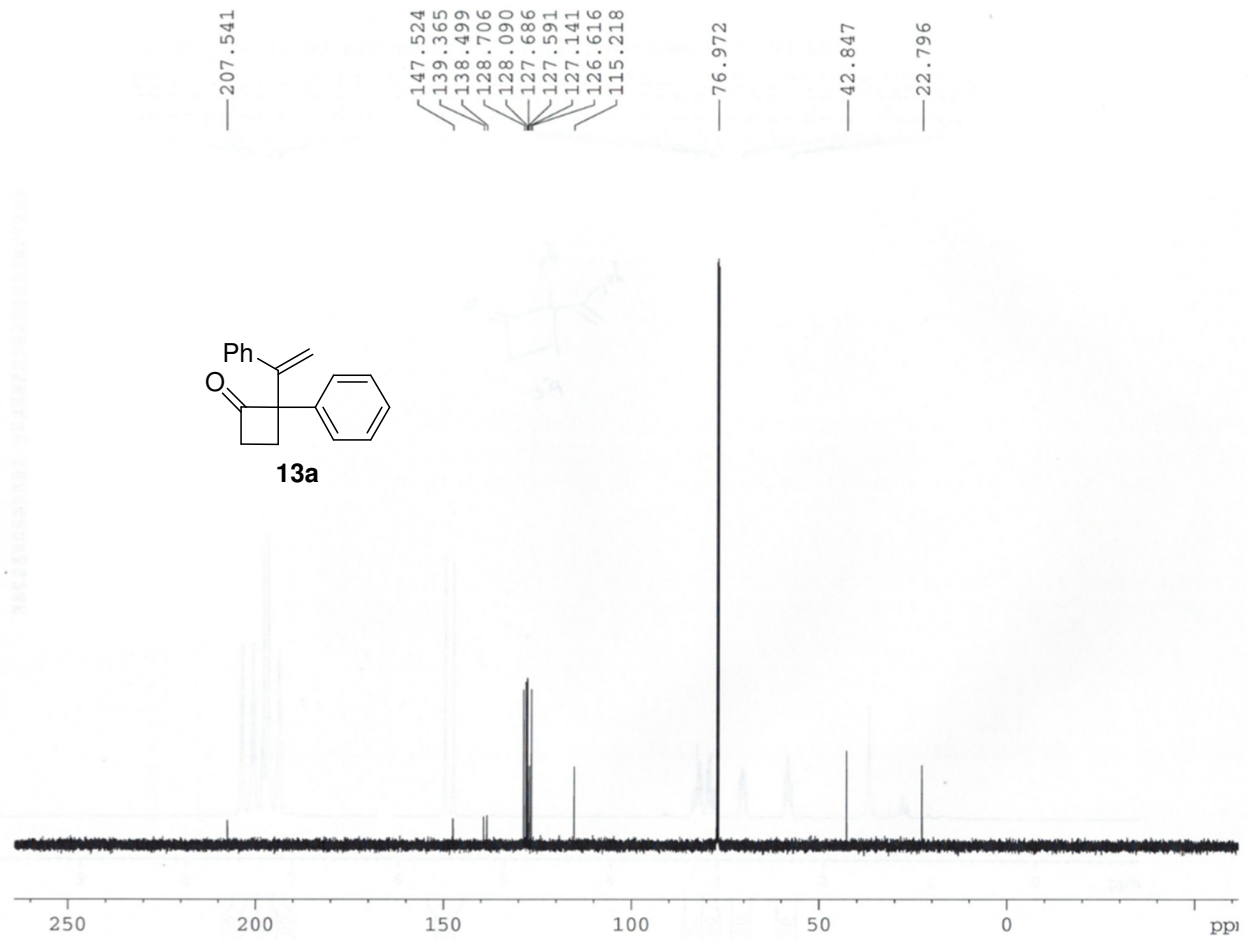
^{13}C NMR spectra of compound **3ka**



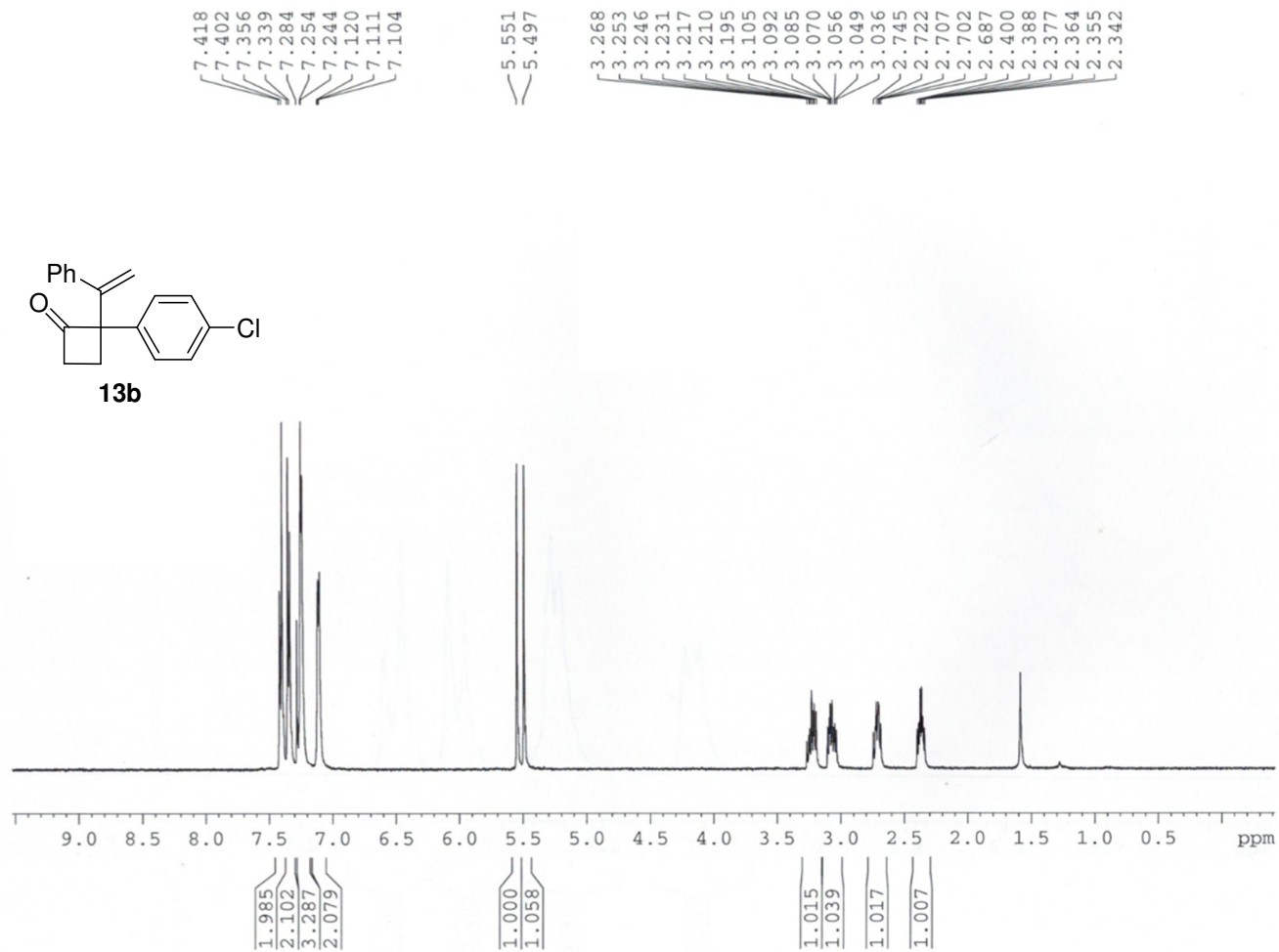
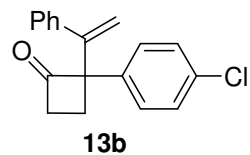
¹H NMR spectra of compound **13a**



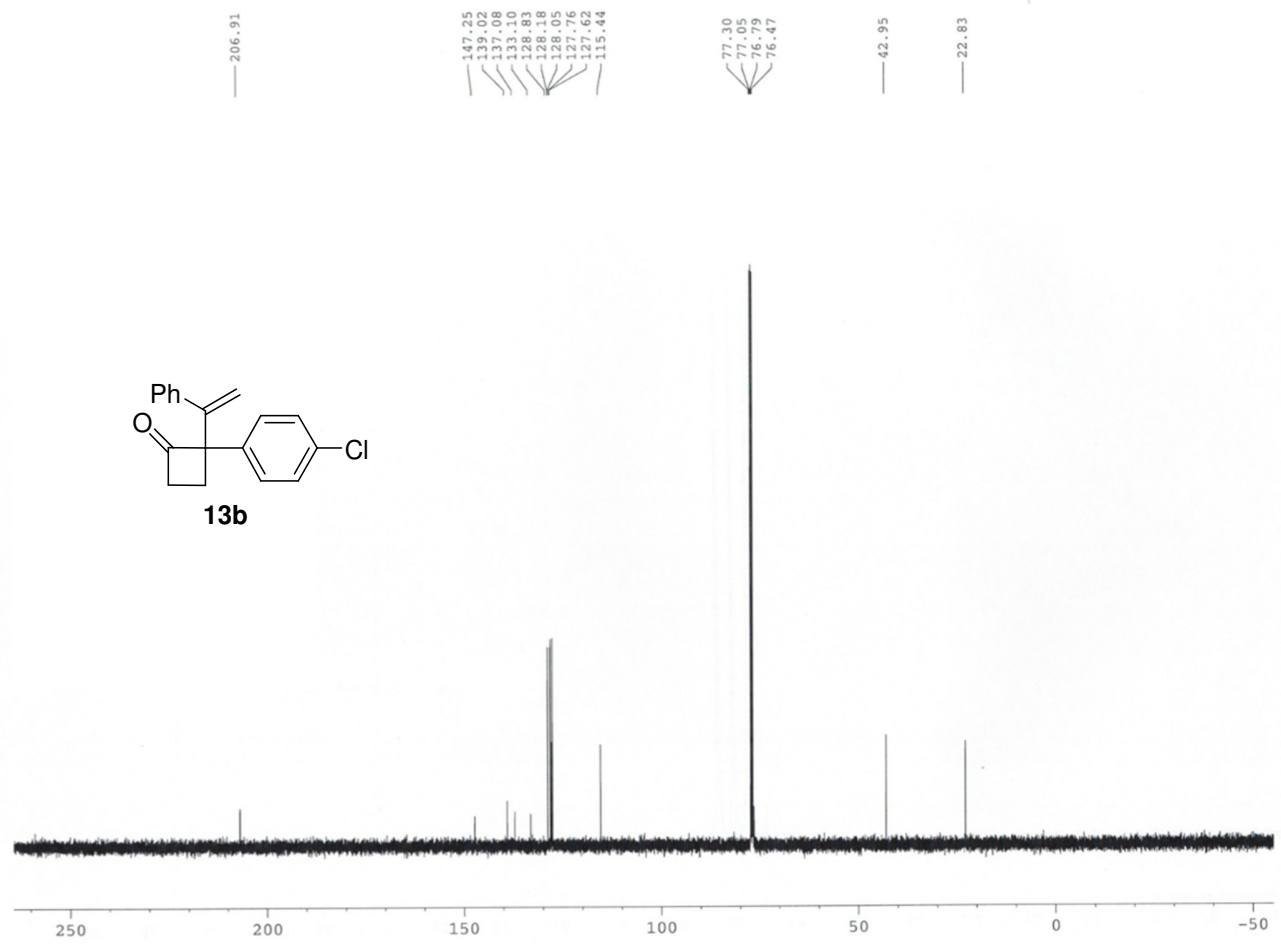
¹³C NMR spectra of compound **13a**



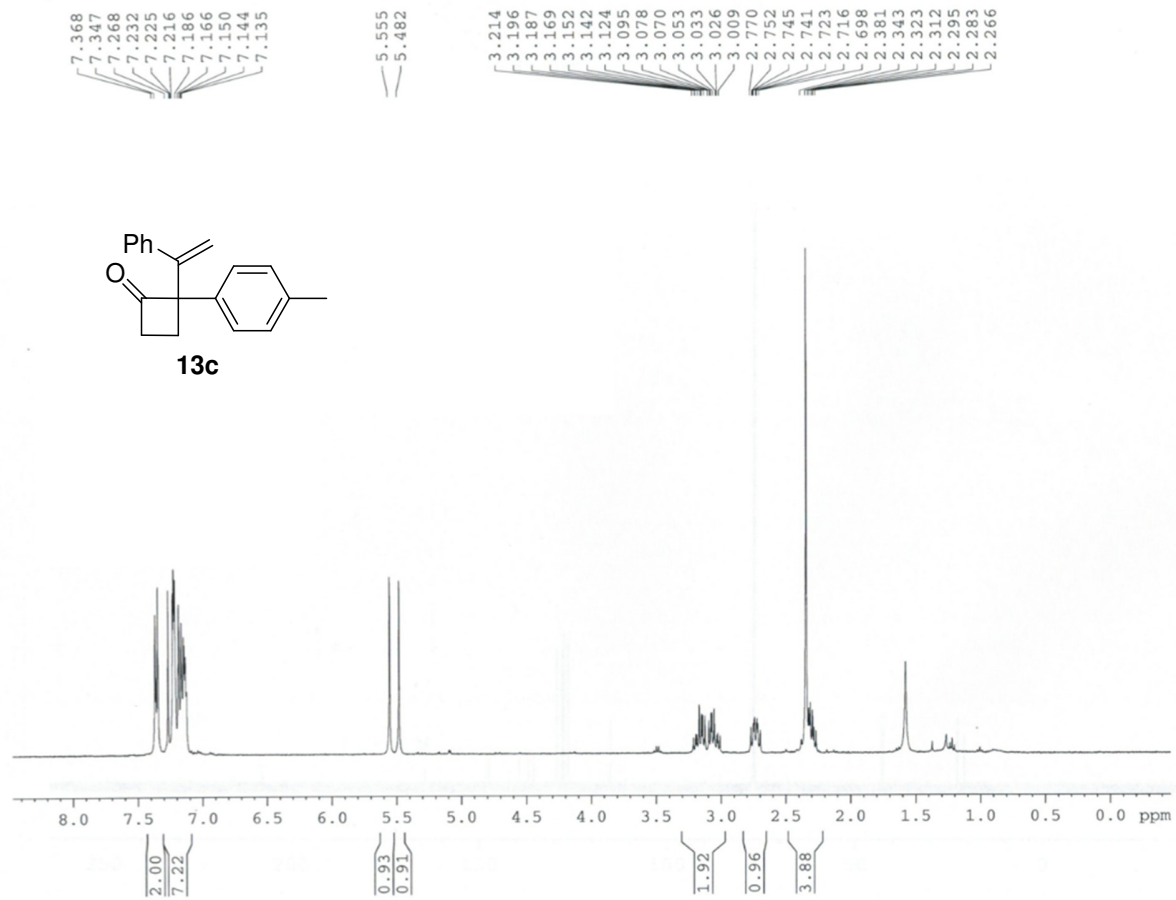
¹H NMR spectra of compound **13b**



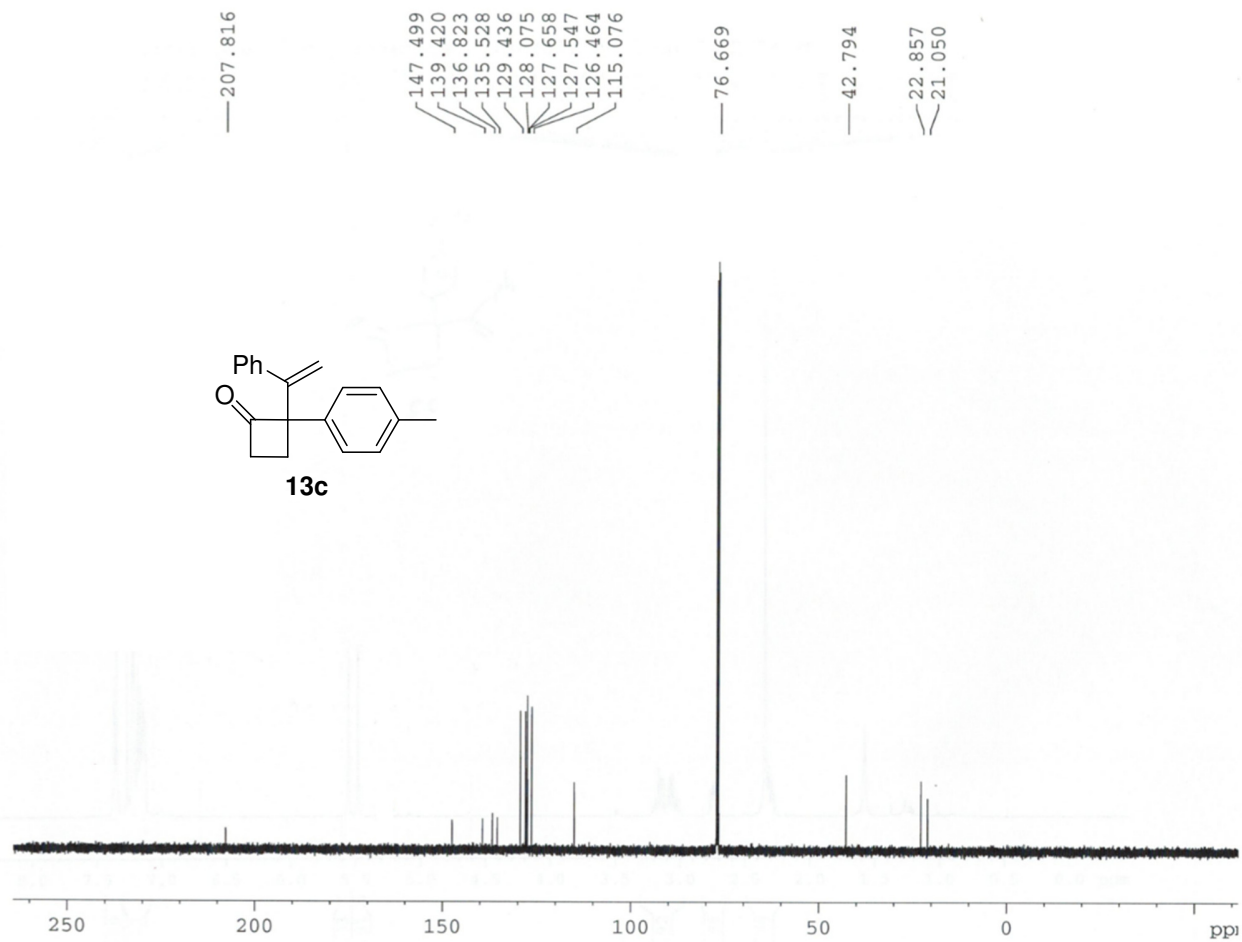
^{13}C NMR spectra of compound **13b**



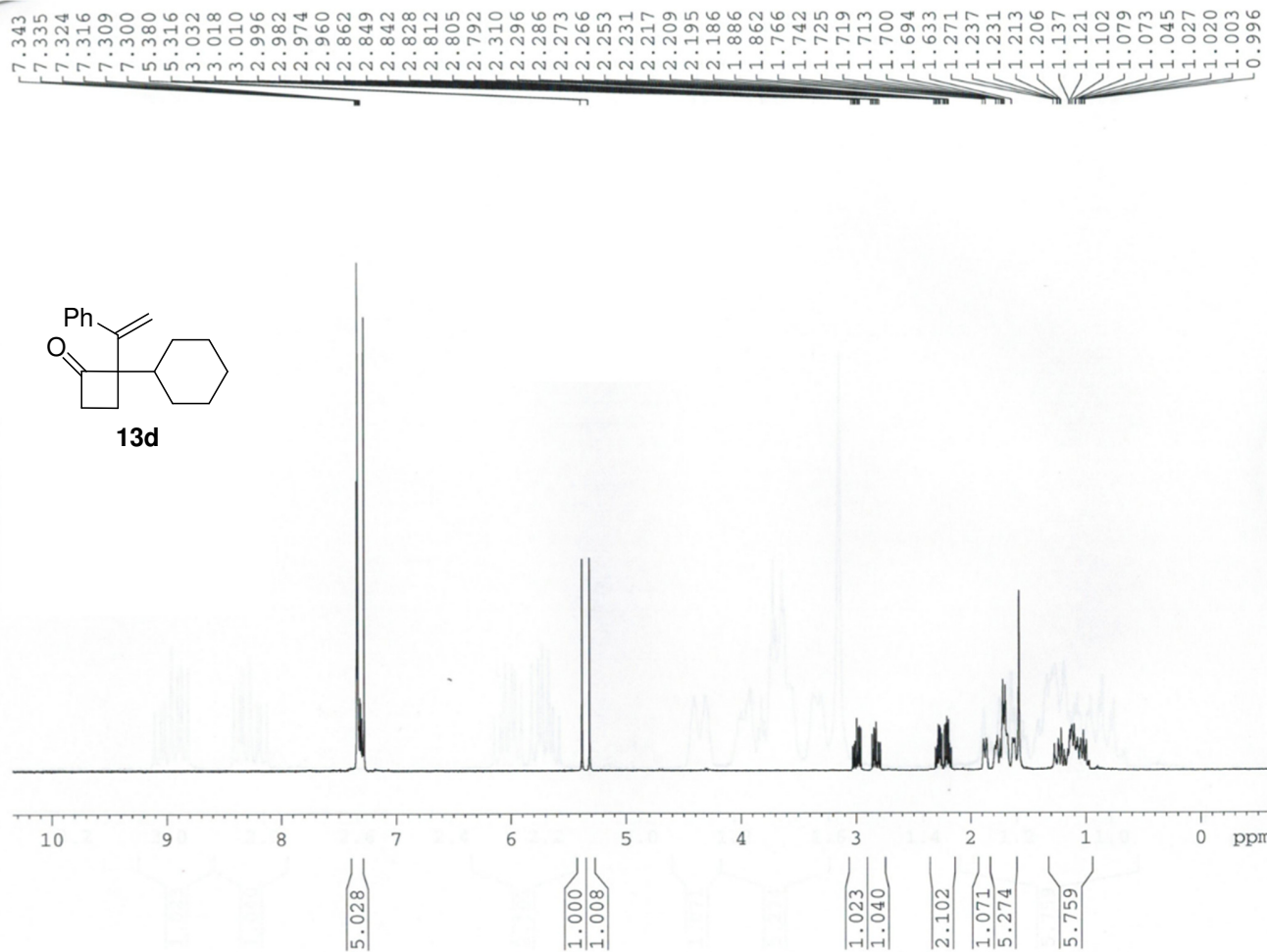
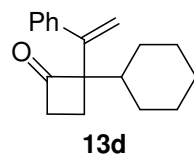
¹H NMR spectra of compound **13c**



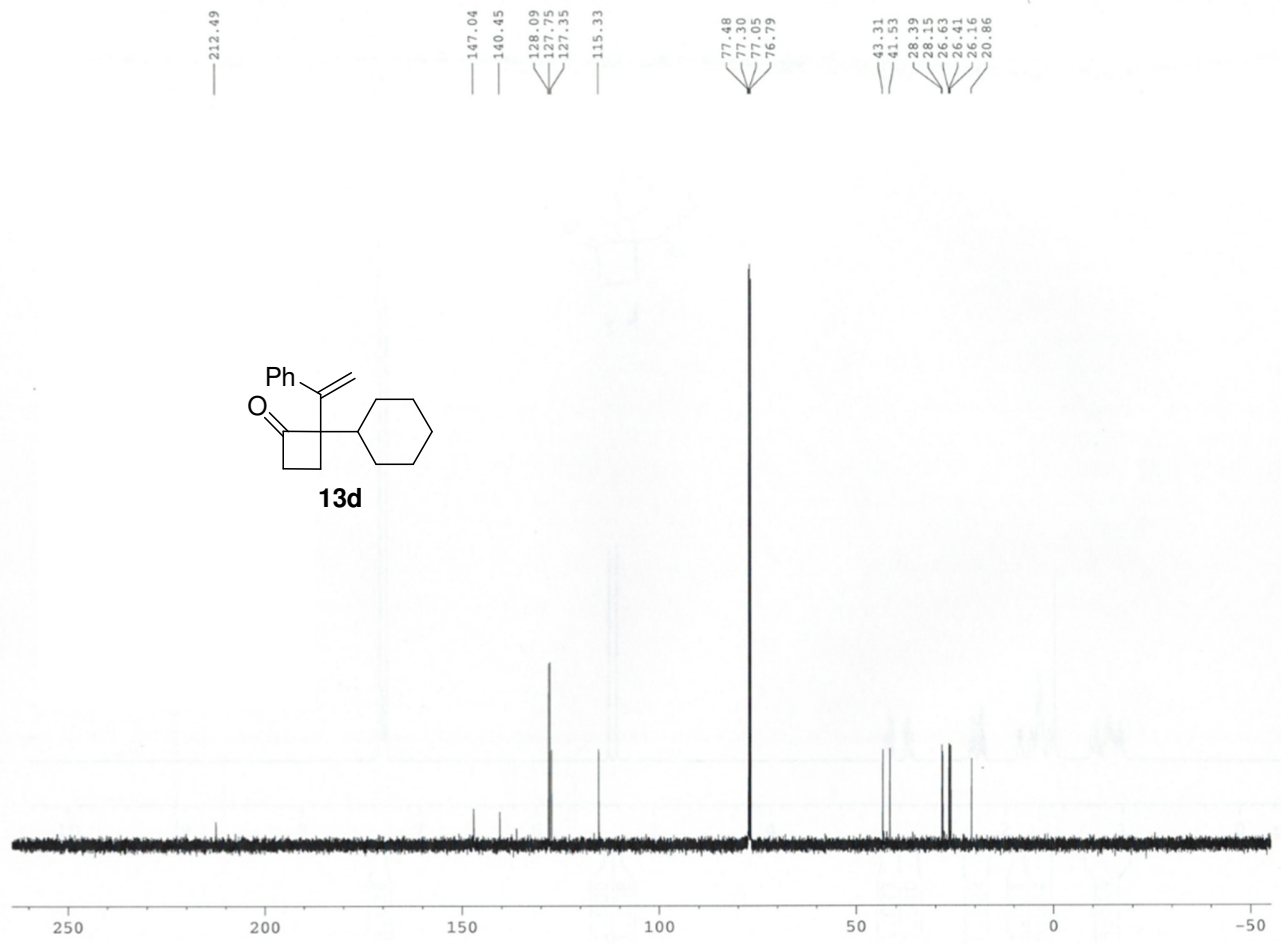
¹³C NMR spectra of compound **13c**



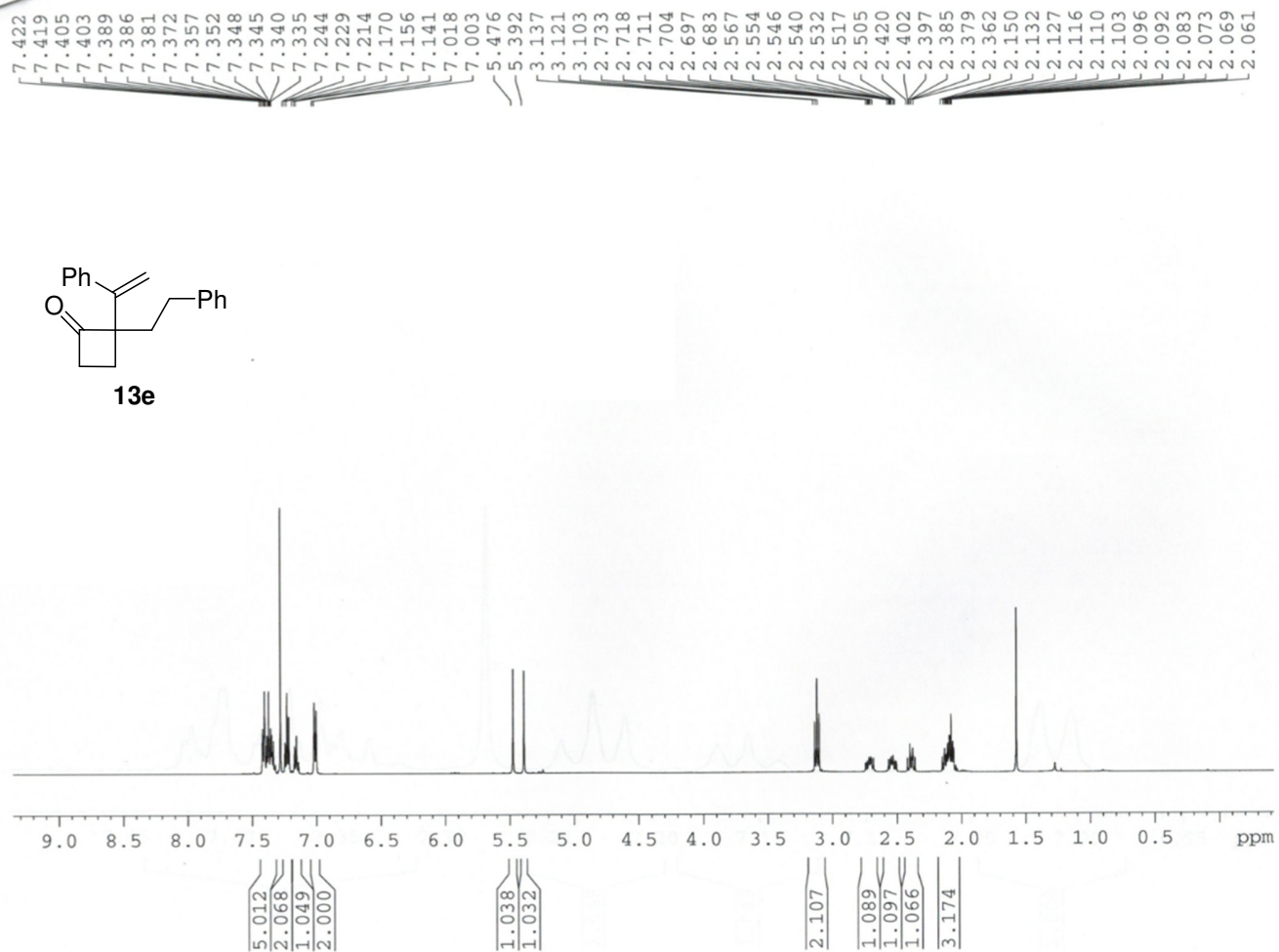
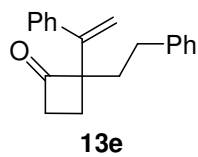
¹H NMR spectra of compound **13d**



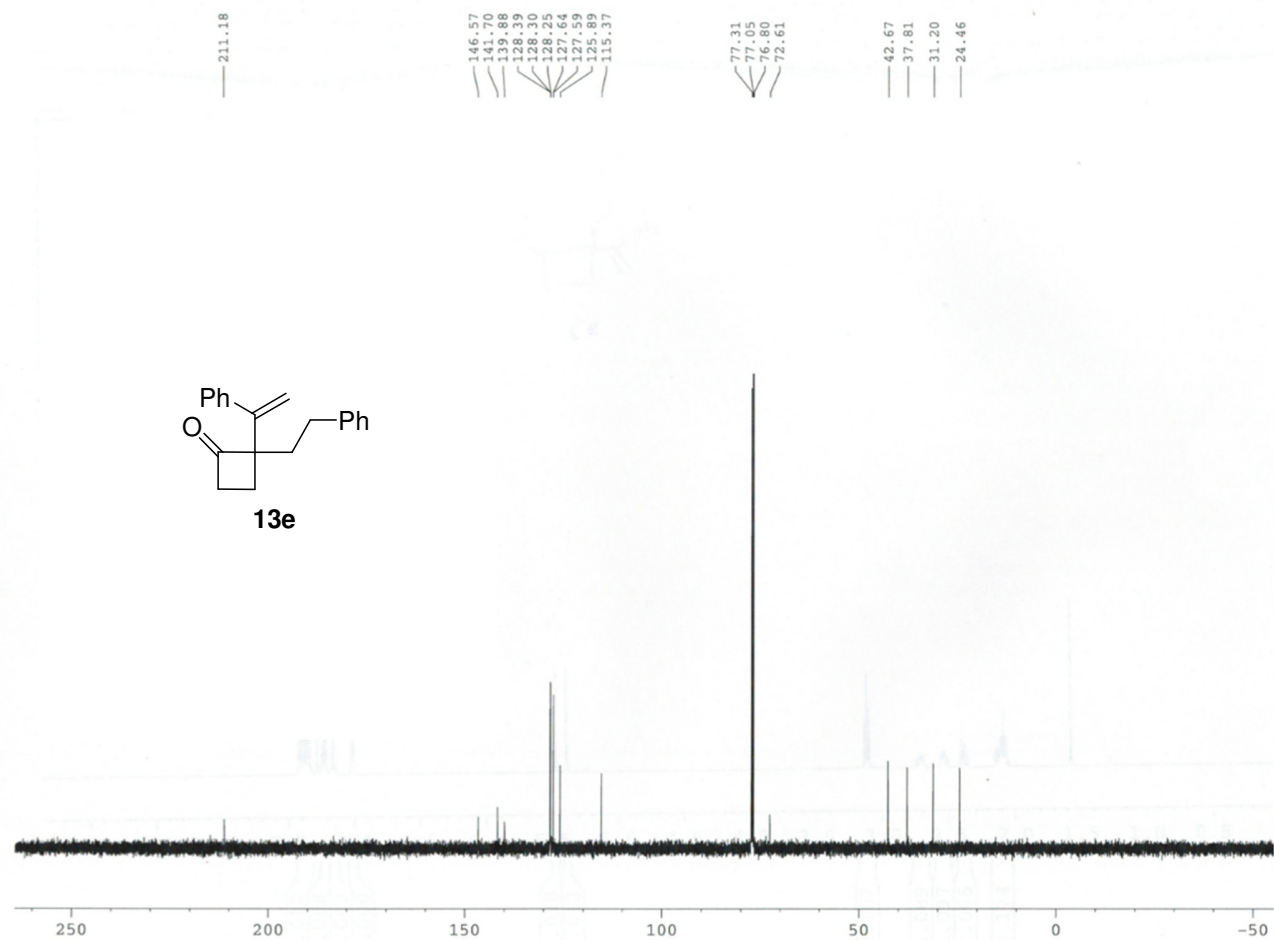
¹³C NMR spectra of compound **13d**



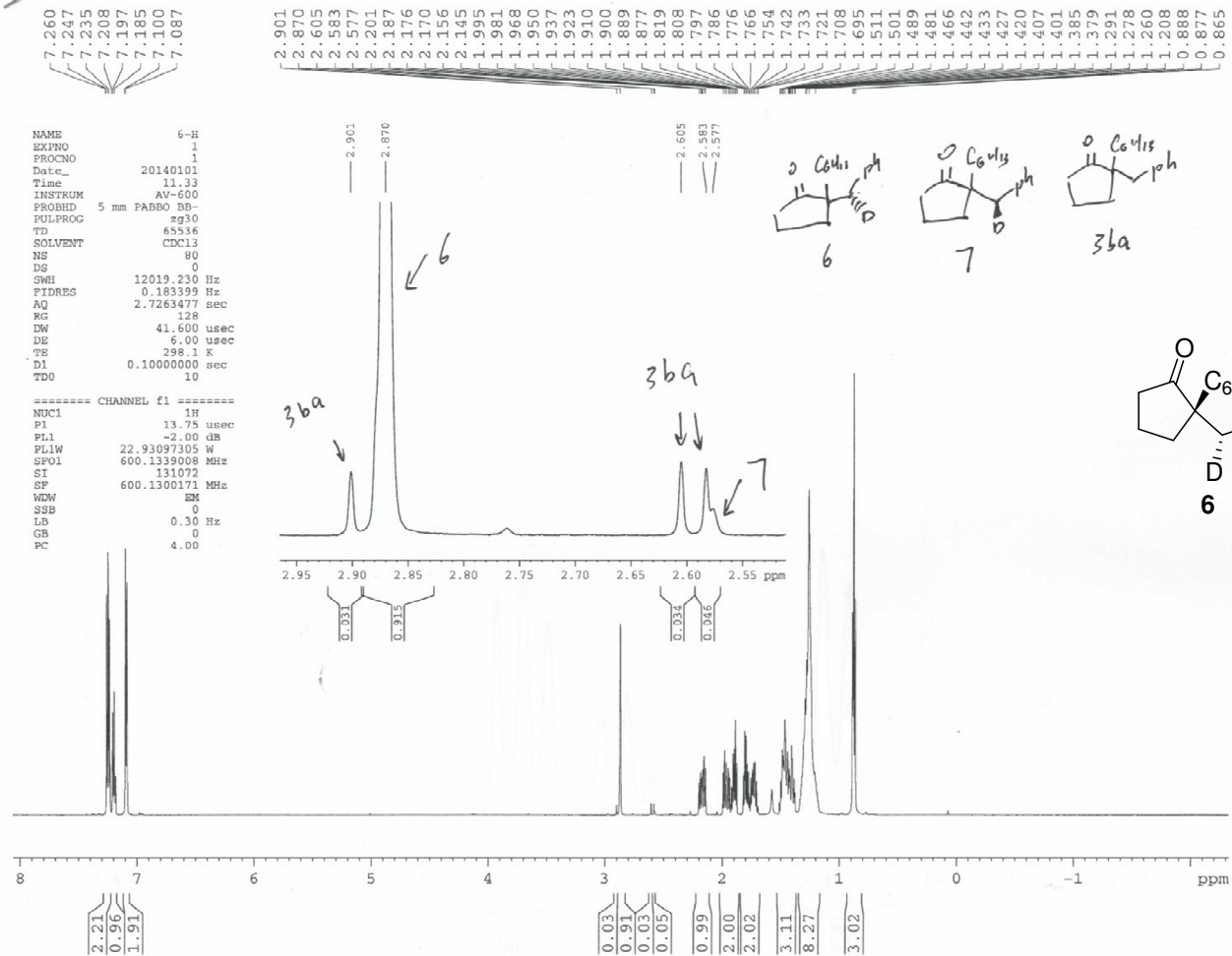
¹H NMR spectra of compound **13e**



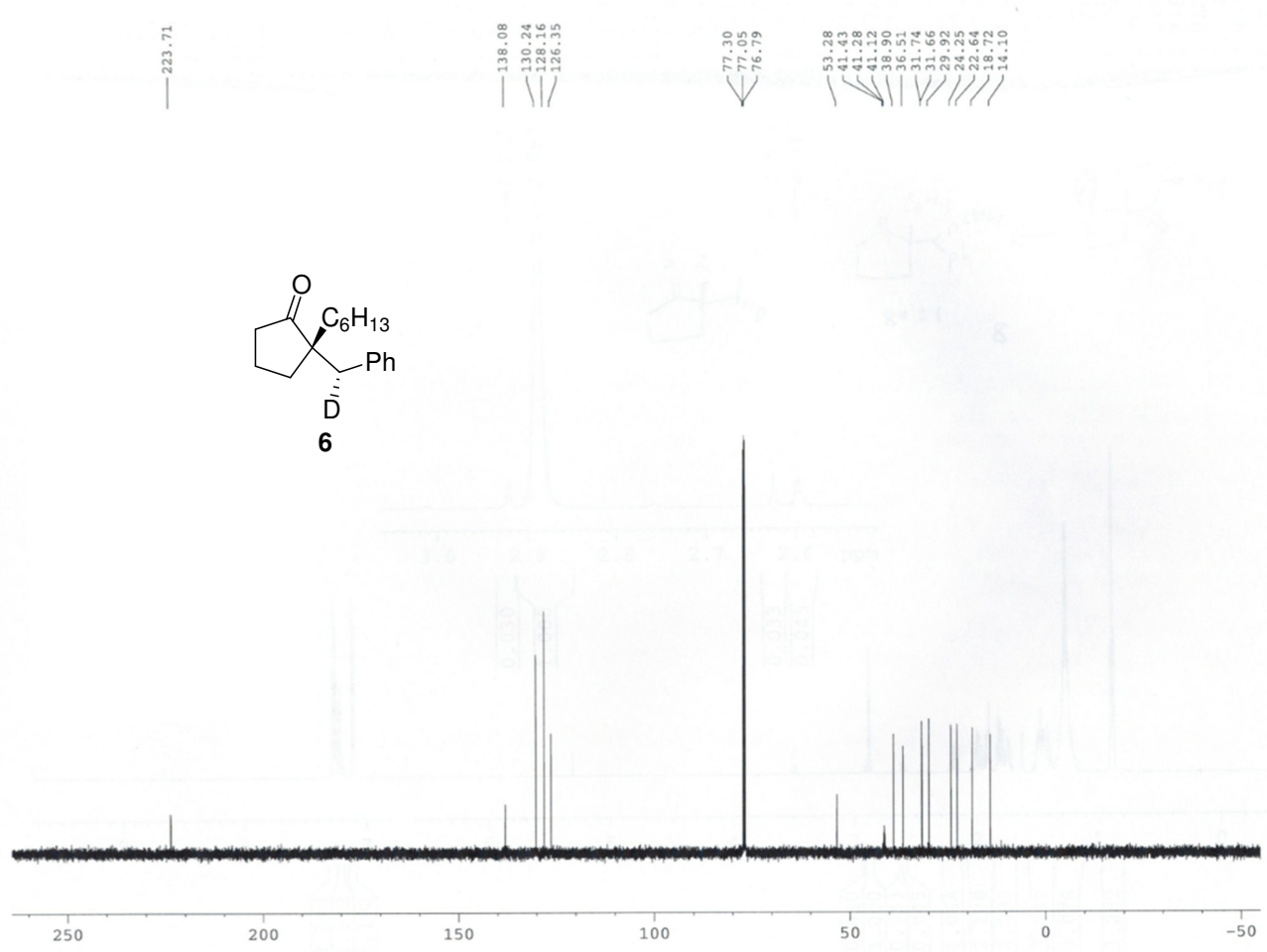
^{13}C NMR spectra of compound **13e**



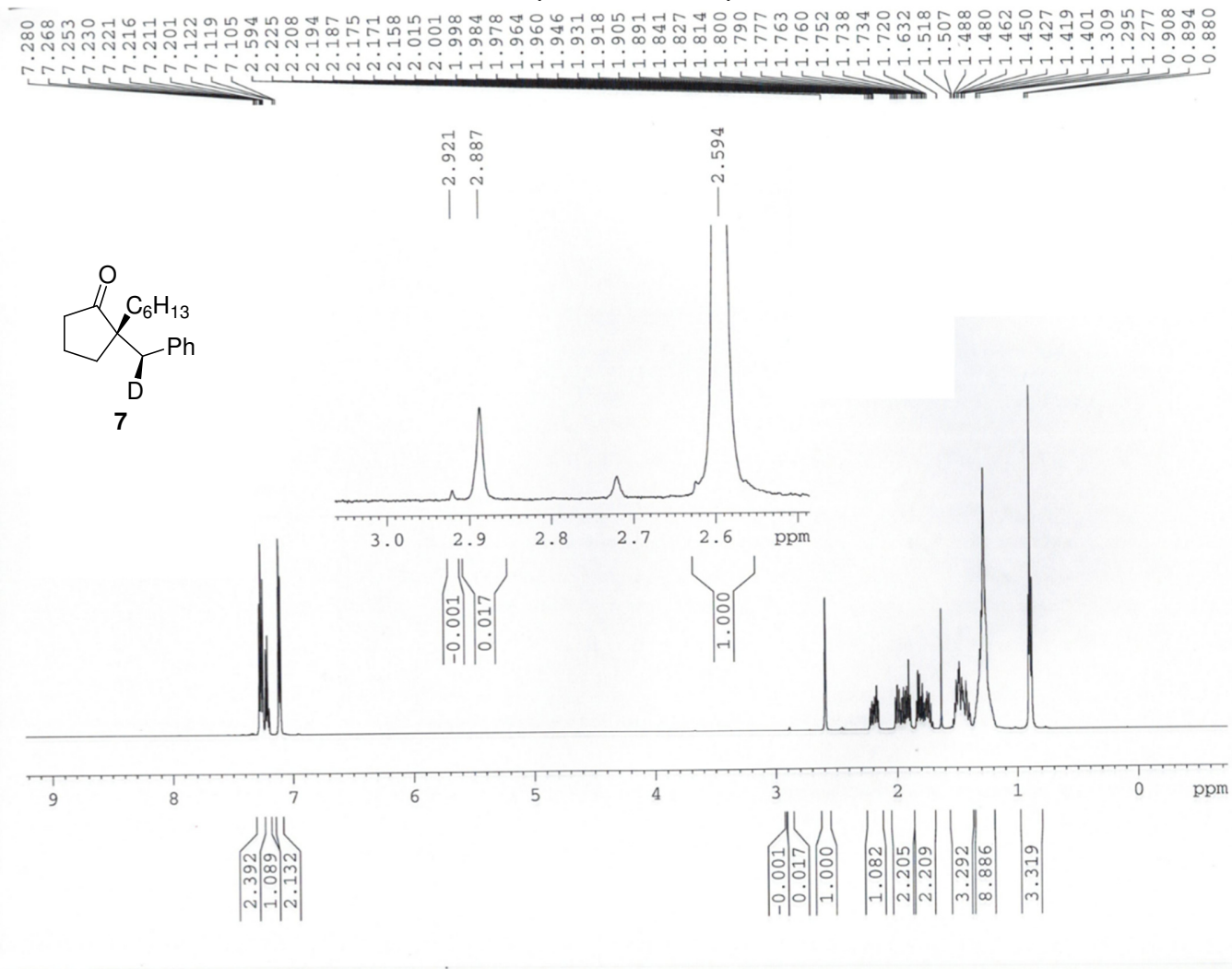
¹H NMR spectra of compound 6



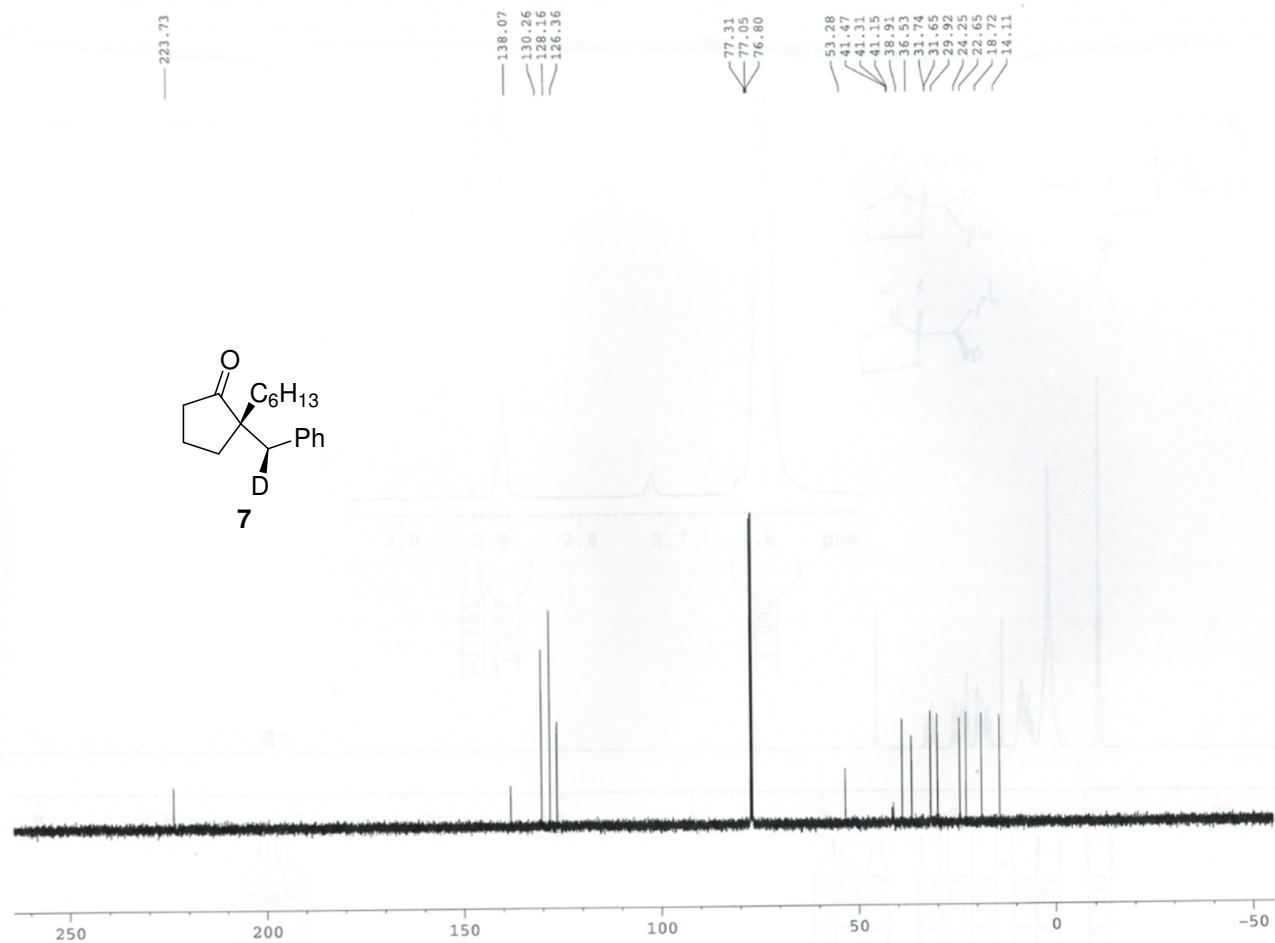
¹³C NMR spectra of compound 6



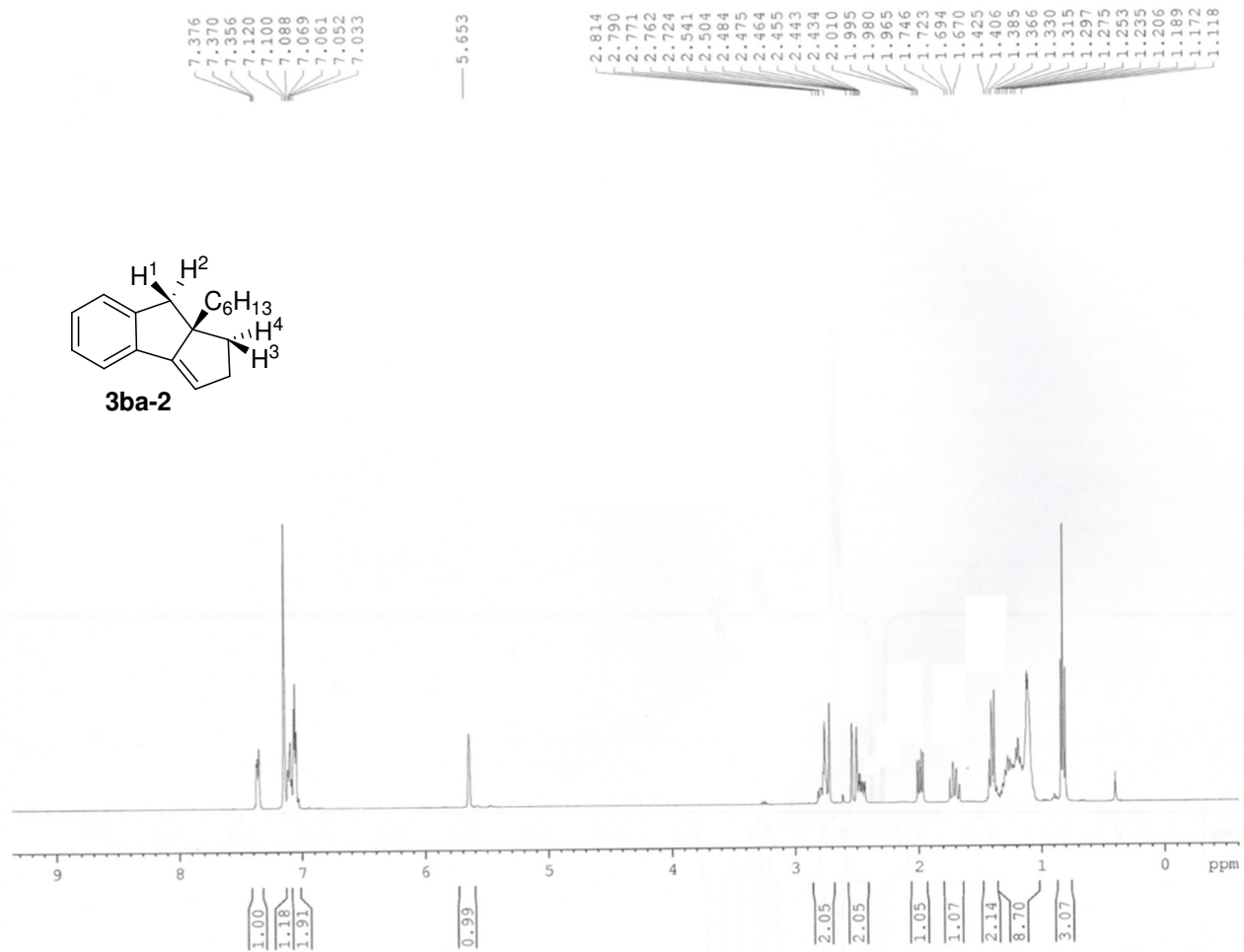
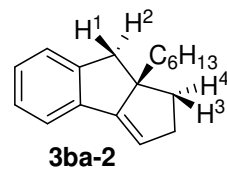
¹H NMR spectra of compound **7**



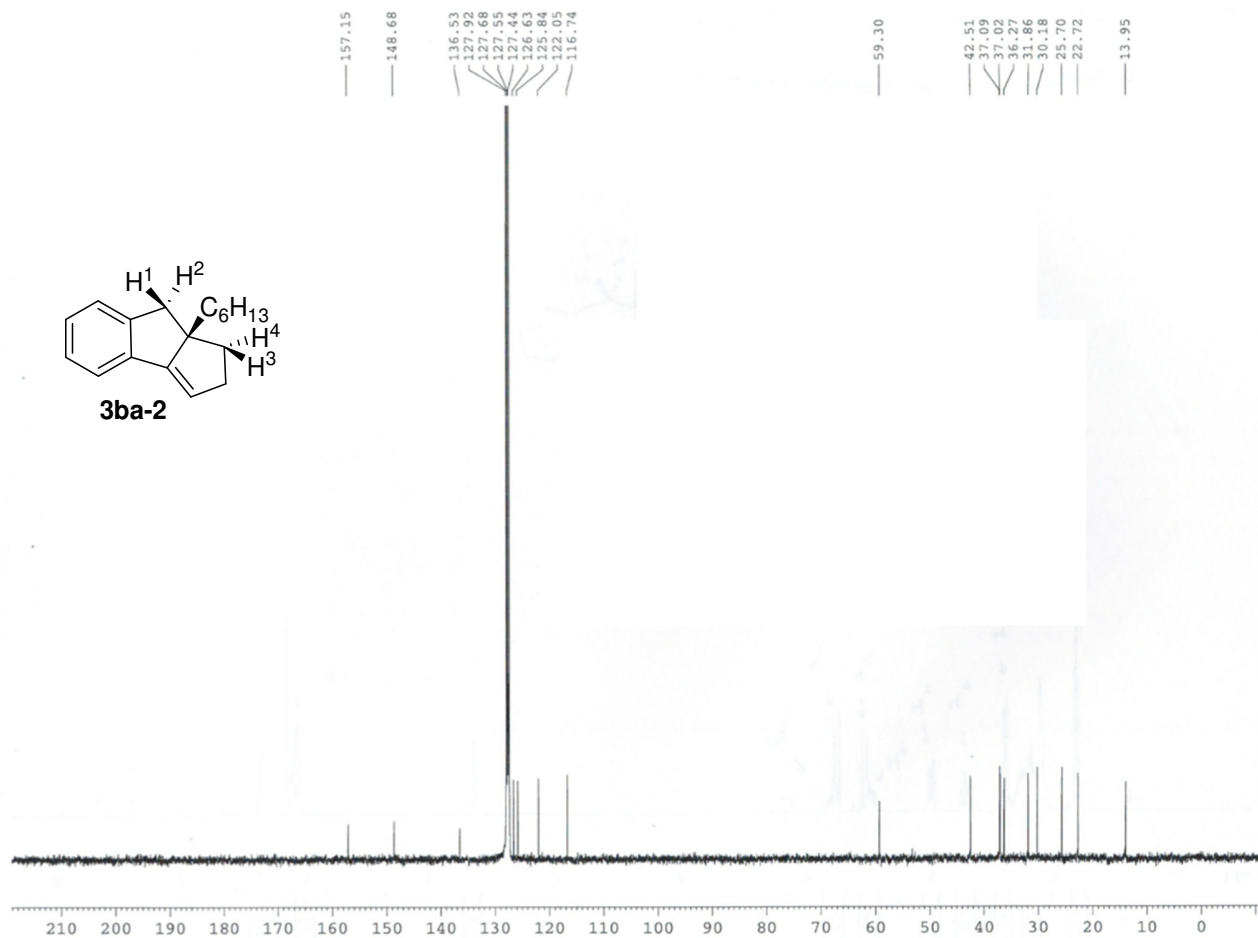
¹³C NMR spectra of compound **7**



¹H NMR spectra of compound **3ba-2**



¹³C NMR spectra of compound **3ba-2**

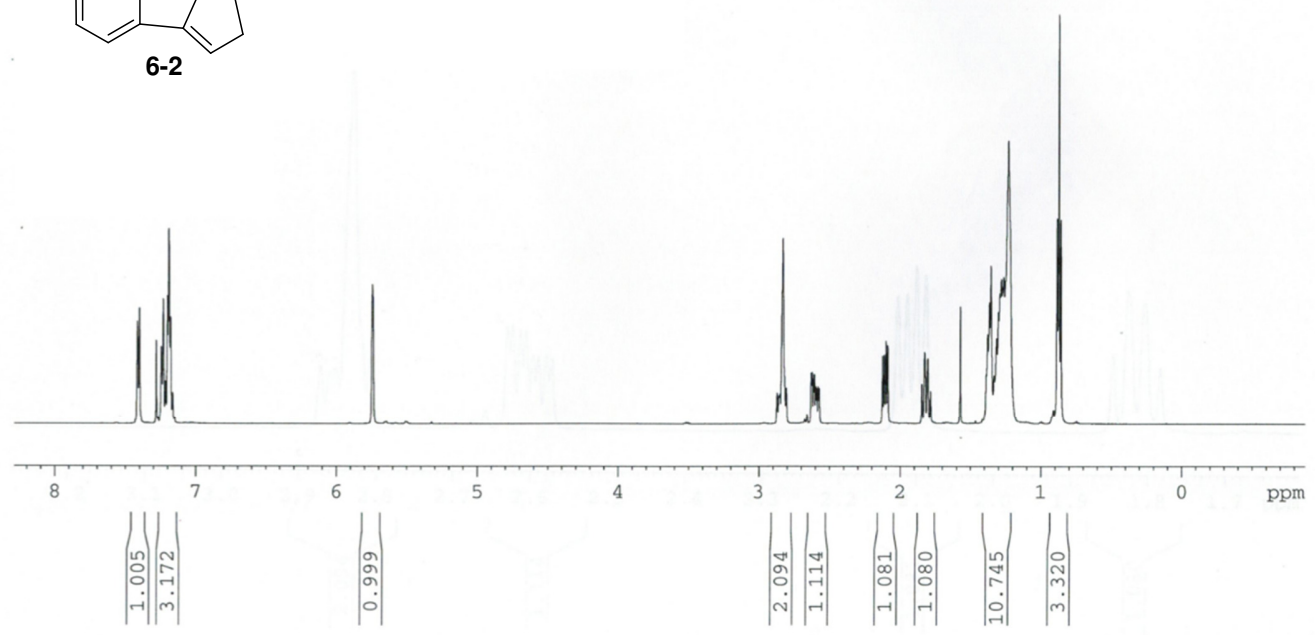
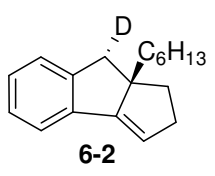


¹H NMR spectra of compound **6-2**

7.414
7.400
7.245
7.231
7.216
7.201
7.190
7.178
7.164

5.744

2.872
2.852
2.831
2.807
2.630
2.623
2.613
2.606
2.597
2.590
2.580
2.573
2.573
2.125
2.112
2.101
2.089
1.846
1.827
1.804
1.784
1.377
1.365
1.354
1.332
1.314
1.302
1.290
1.280
1.264
1.232
1.086
0.872
0.859



¹³C NMR spectra of compound **6-2**

