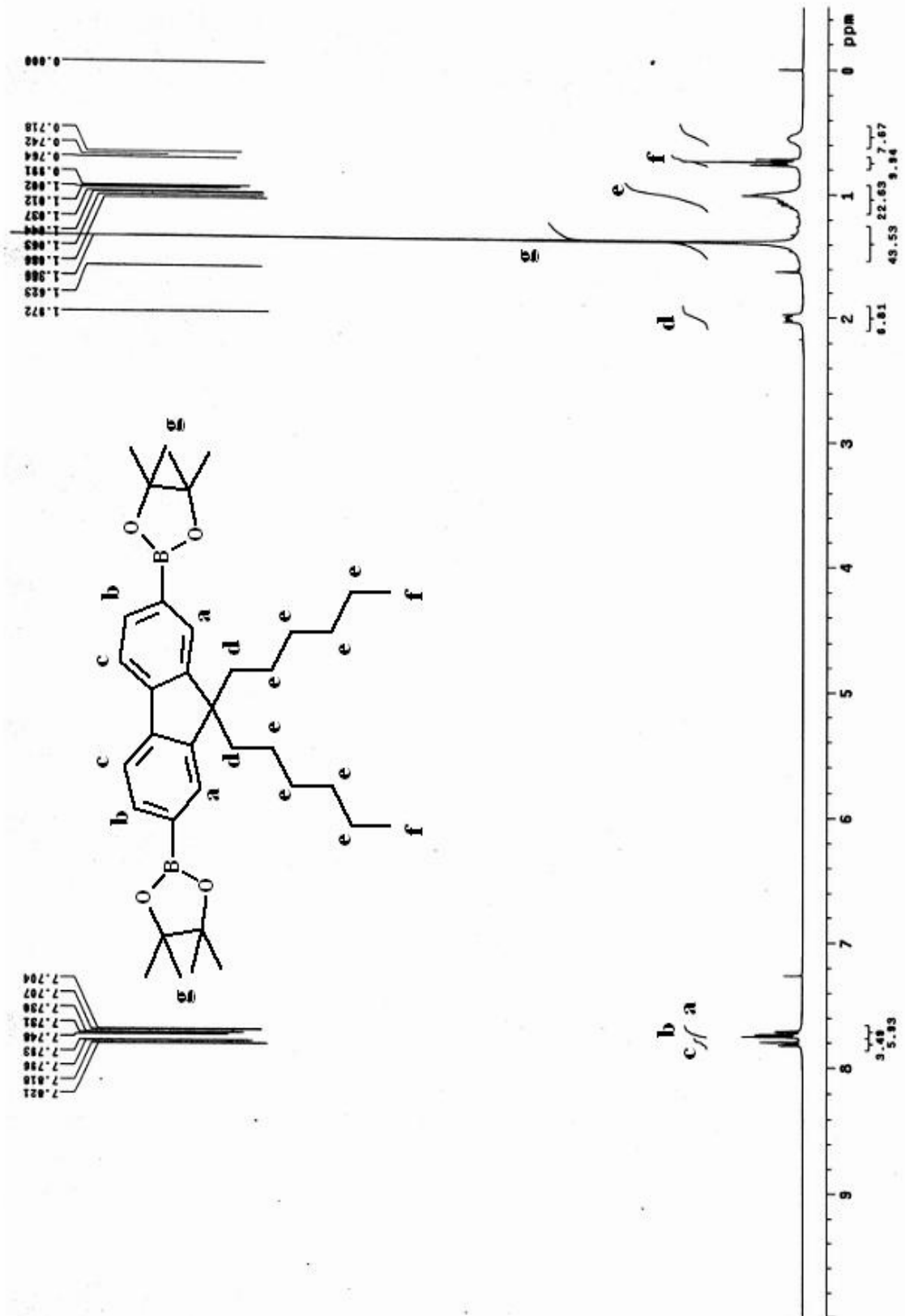
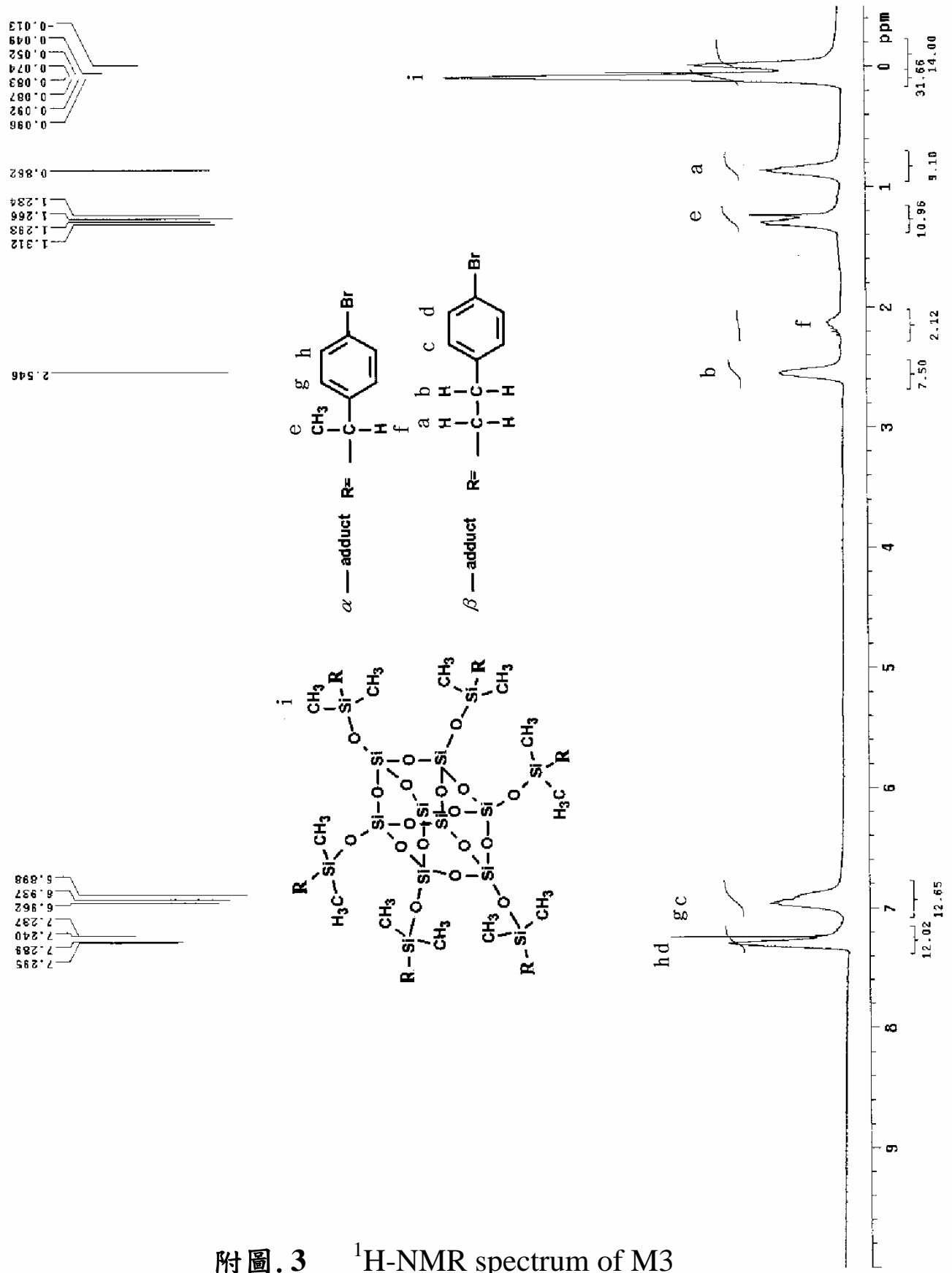


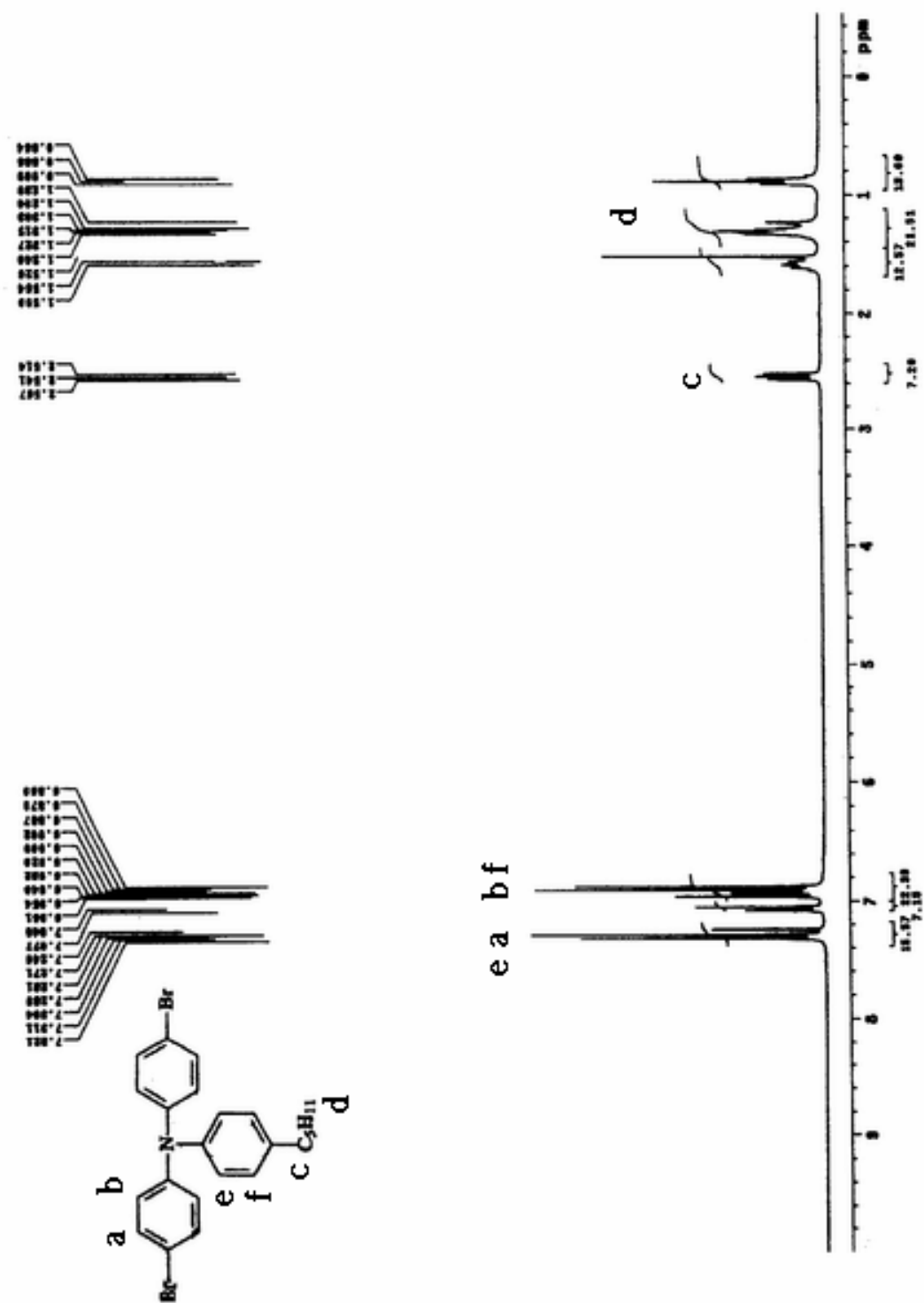
附圖. 1 $^1\text{H-NMR}$ spectrum of M1



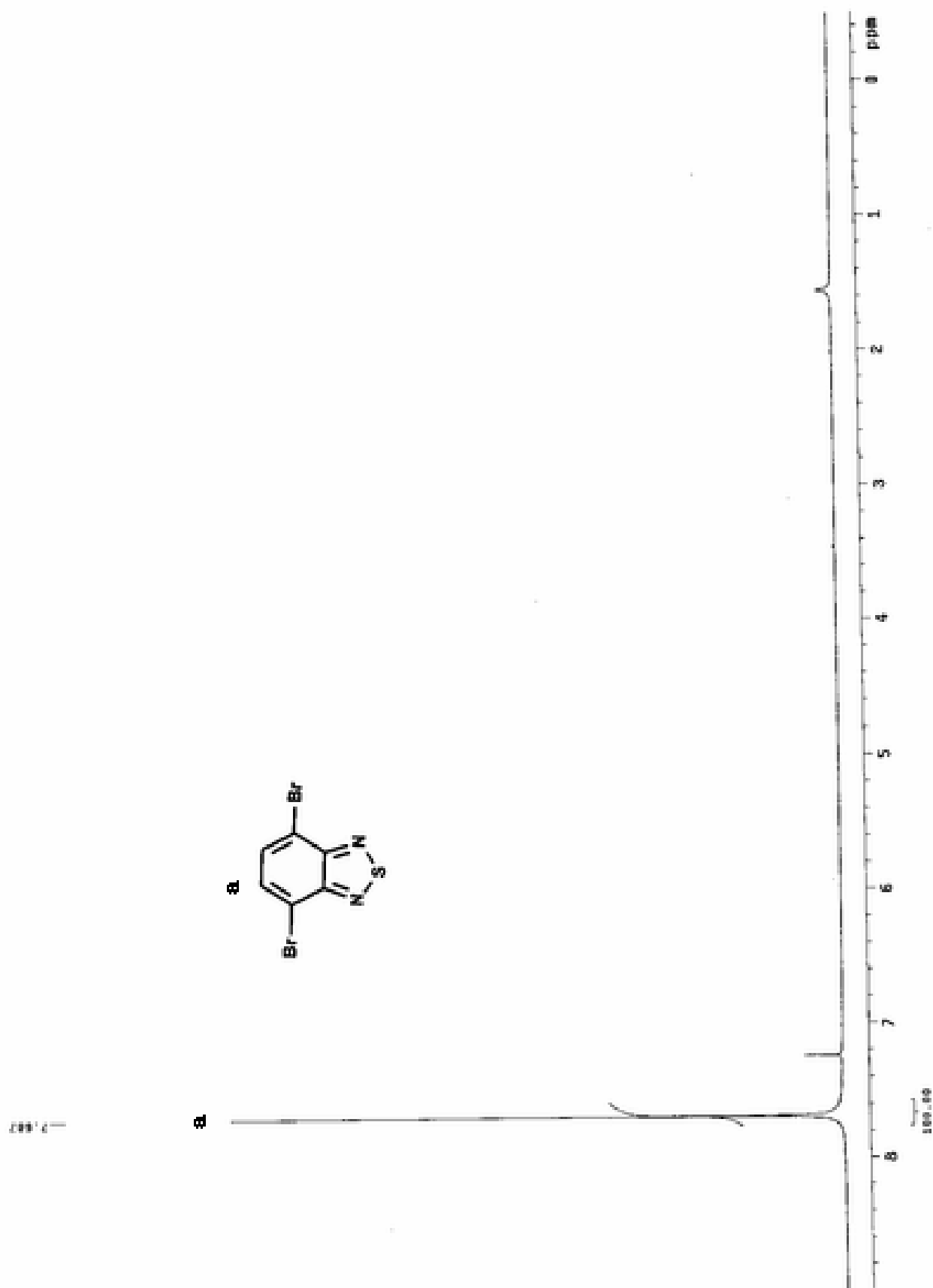
附圖. 2 $^1\text{H-NMR}$ spectrum of M2



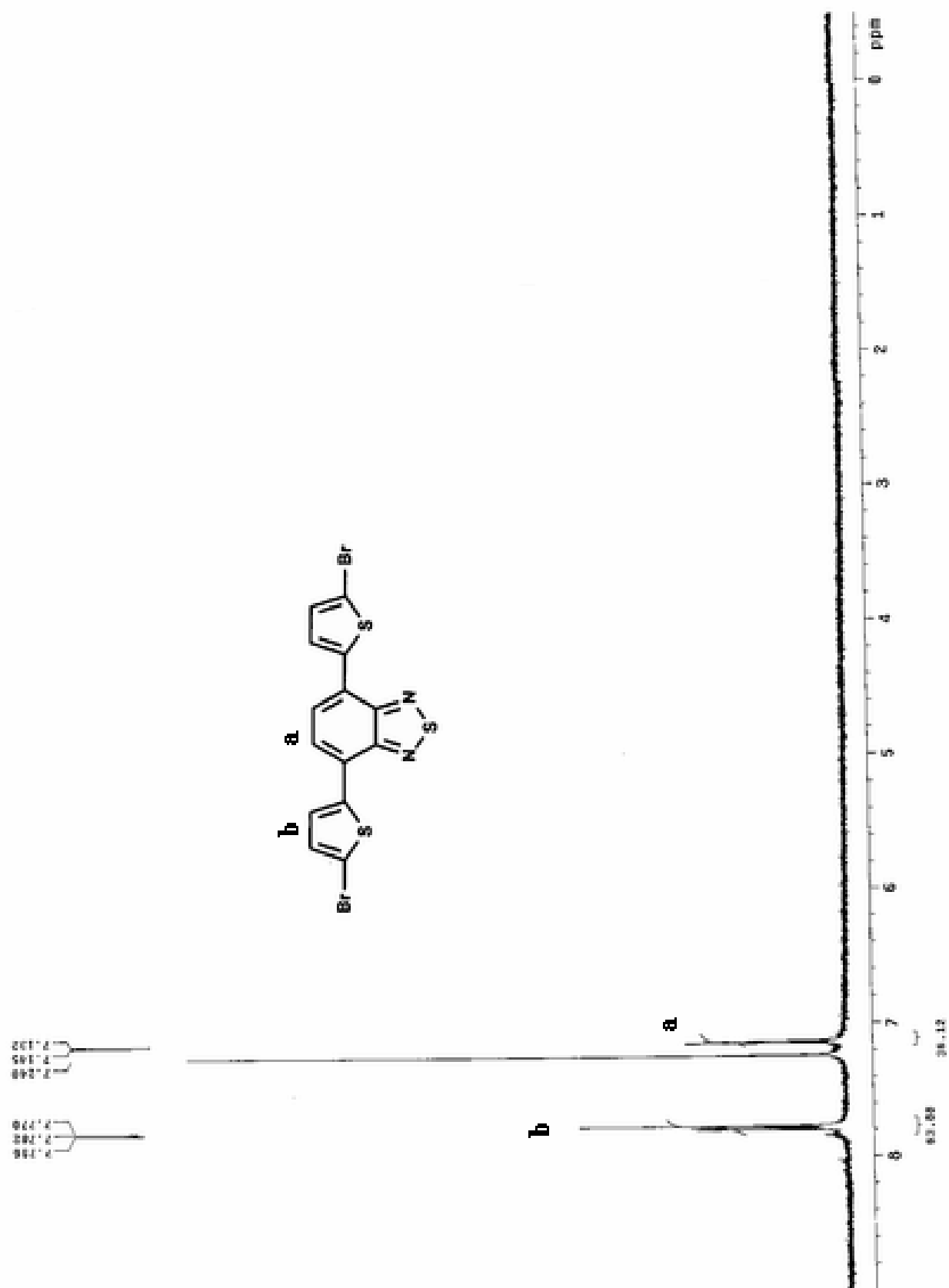
附圖.3 ¹H-NMR spectrum of M3



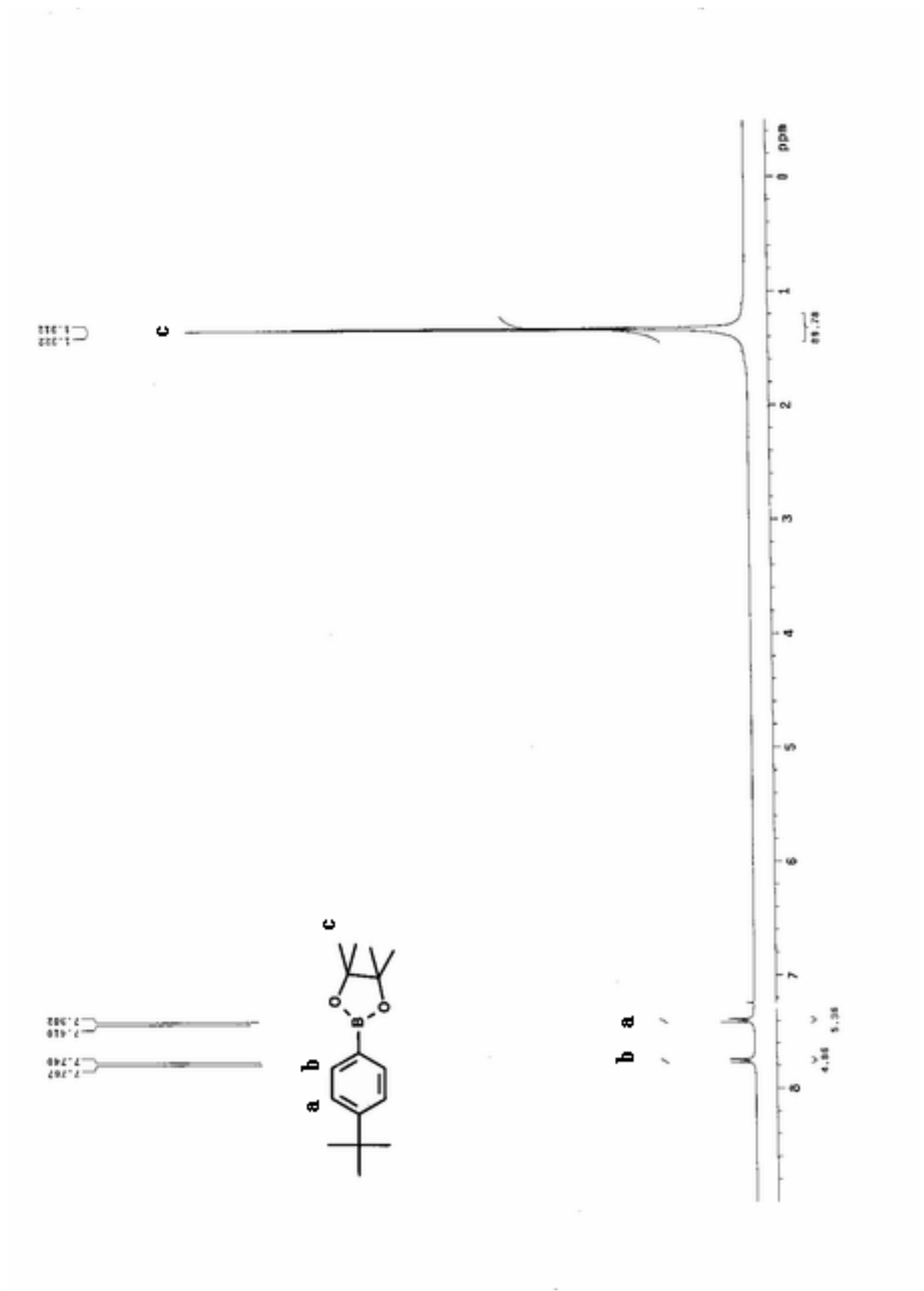
附圖. 4 $^1\text{H-NMR}$ spectrum of M4



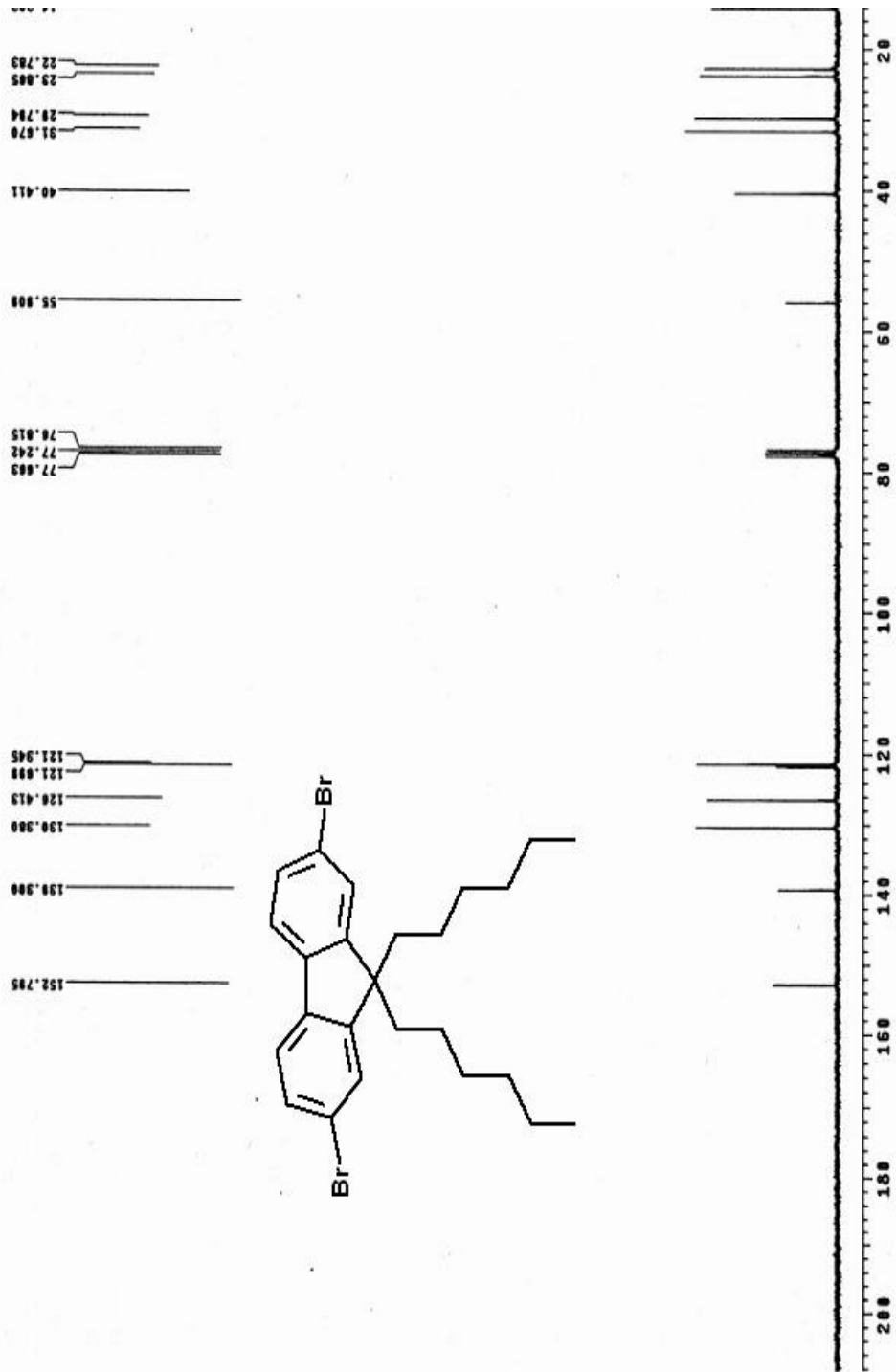
附圖.5 $^1\text{H-NMR}$ spectrum of M5



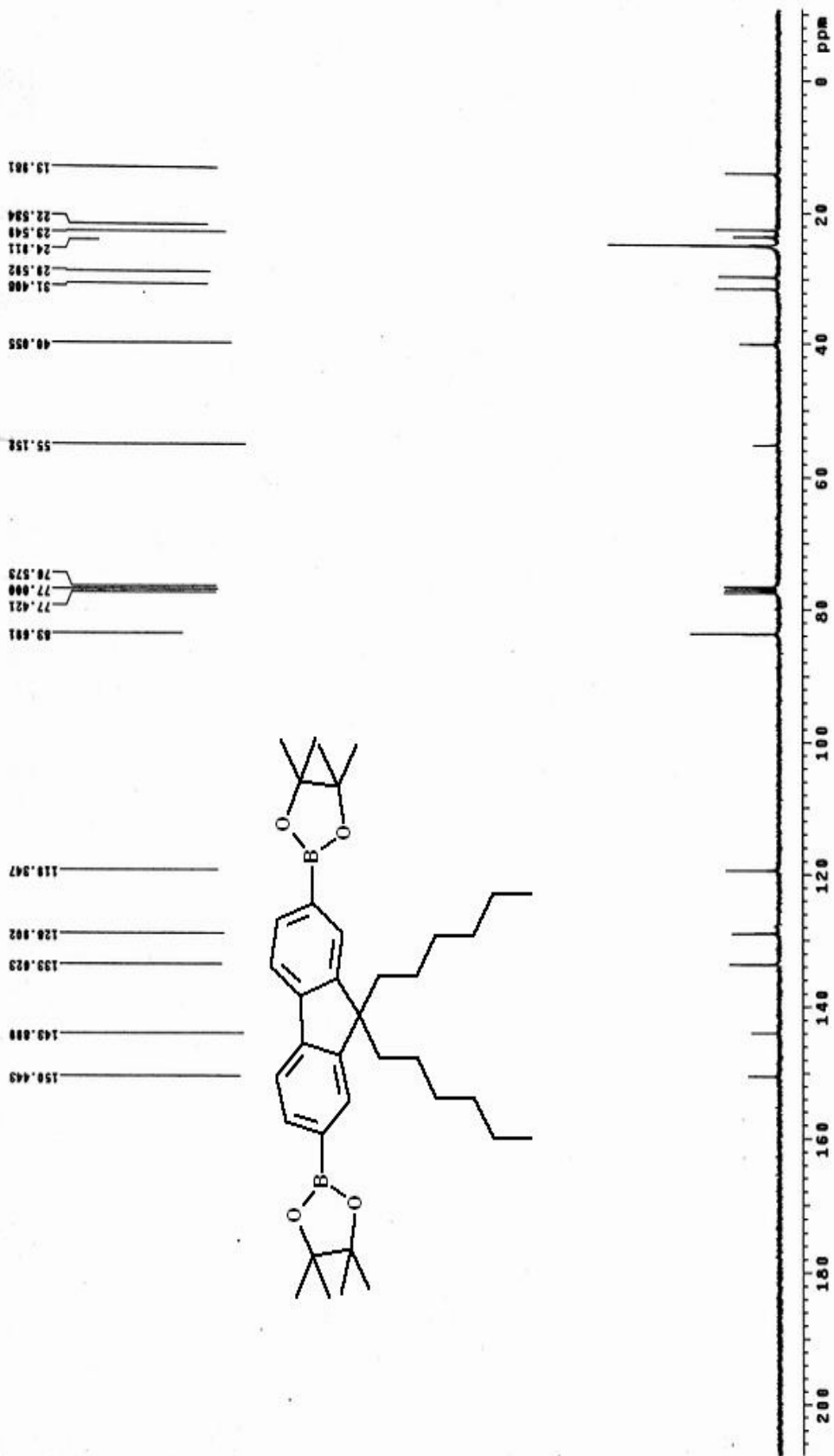
附圖. 6 $^1\text{H-NMR}$ spectrum of M6



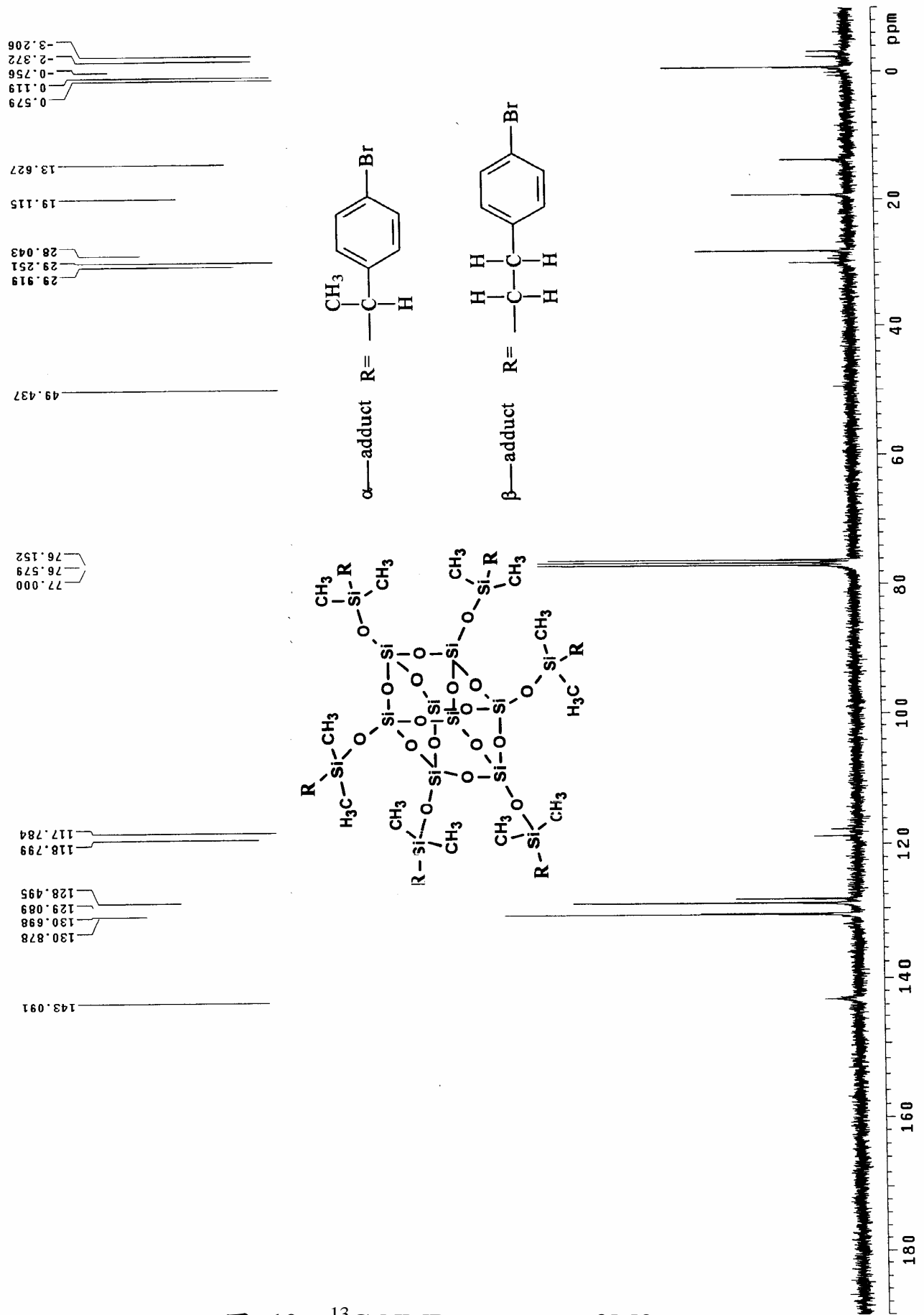
附圖.7 $^1\text{H-NMR}$ spectrum of M7



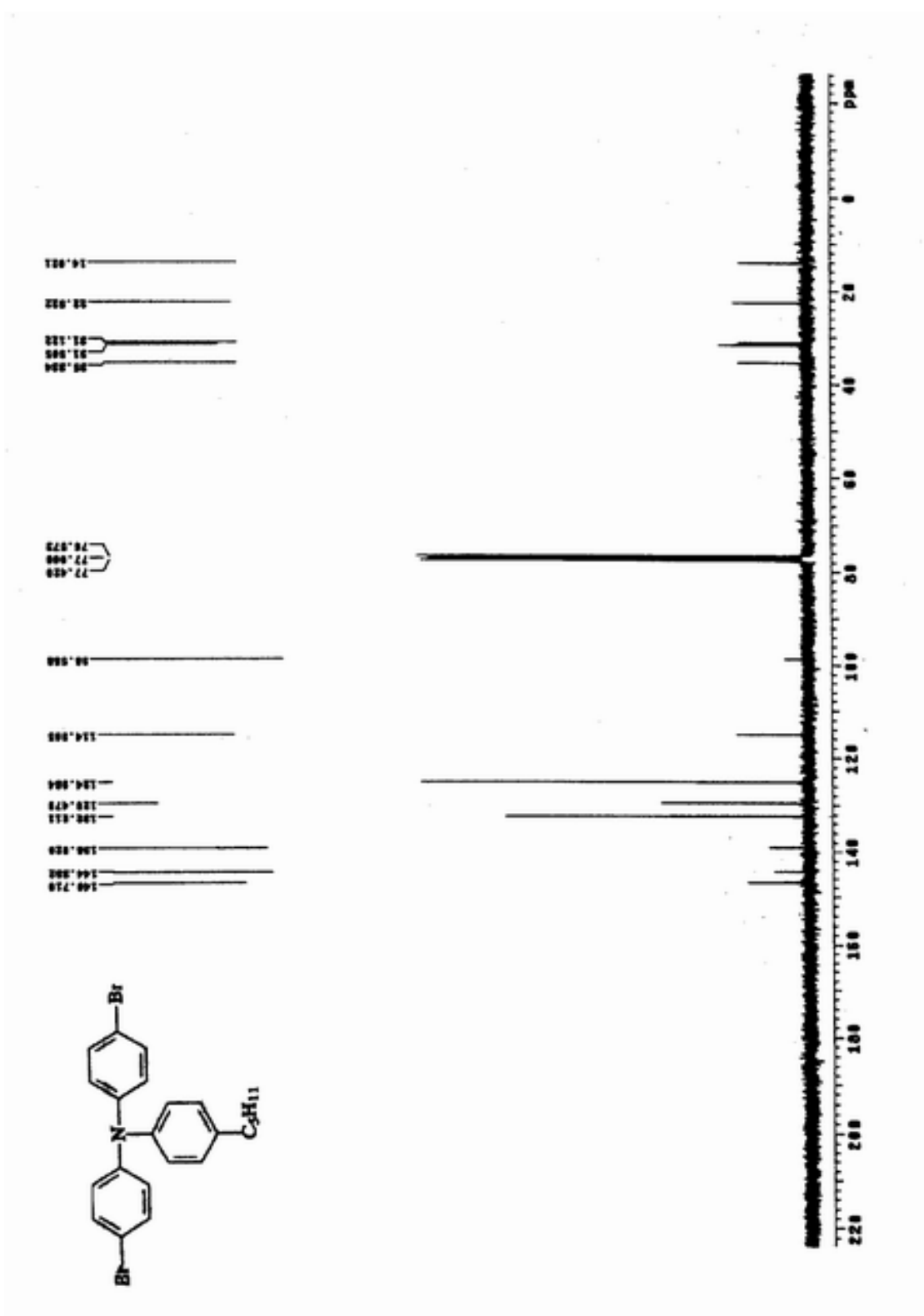
附圖. 8 ^{13}C -NMR spectrum of M1



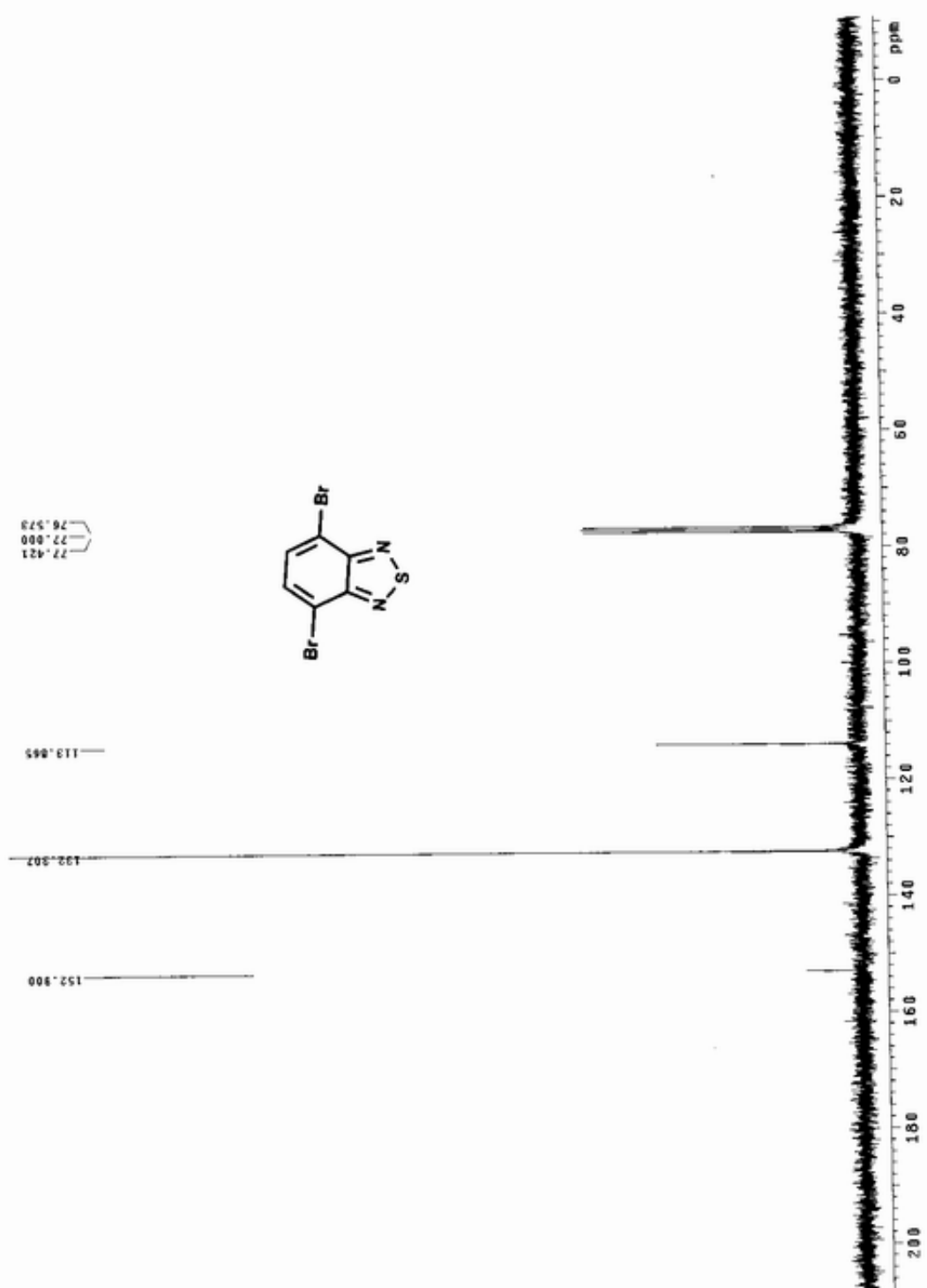
附圖. 9 $^{13}\text{C-NMR}$ spectrum of M2



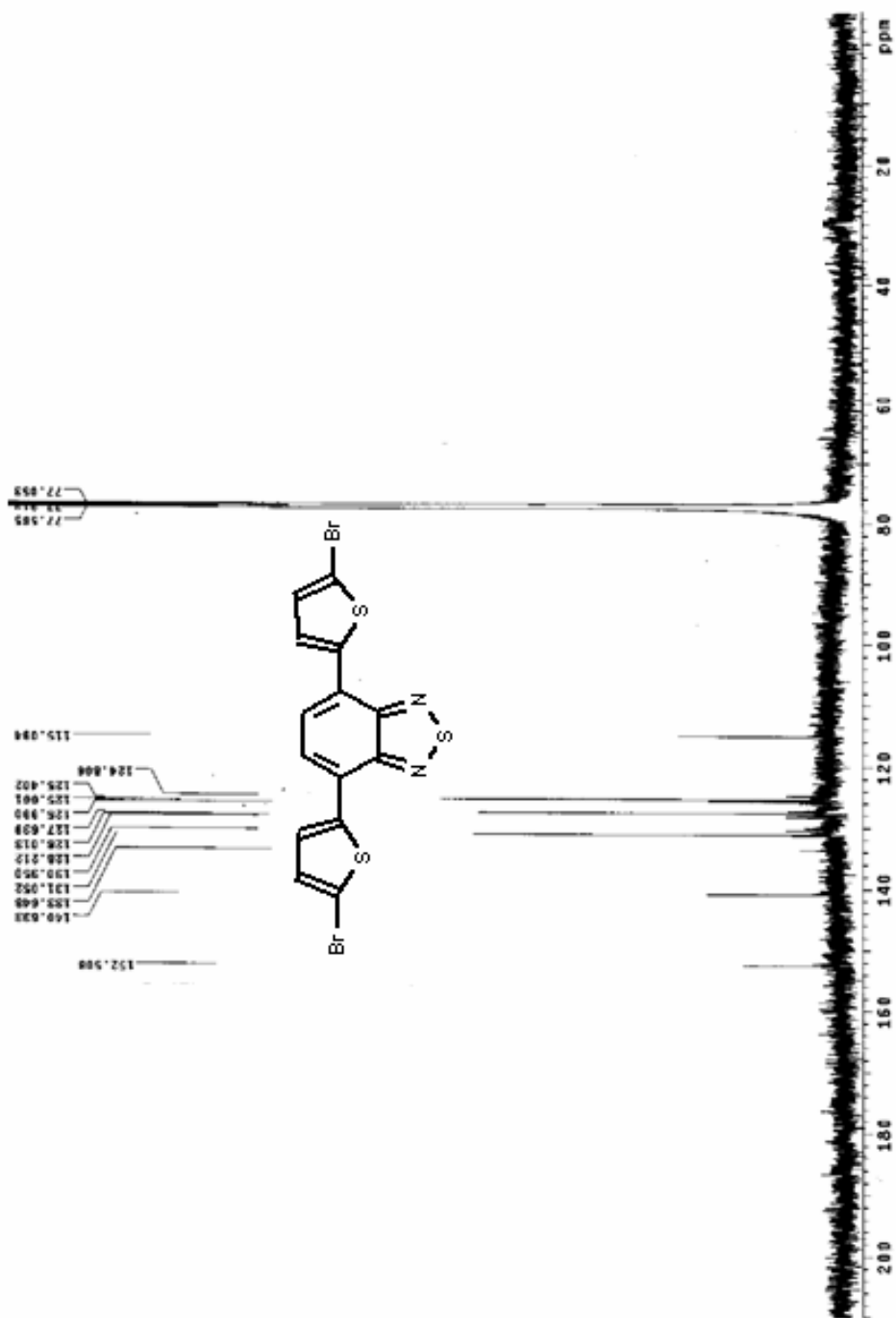
附圖. 10 ^{13}C -NMR spectrum of M3



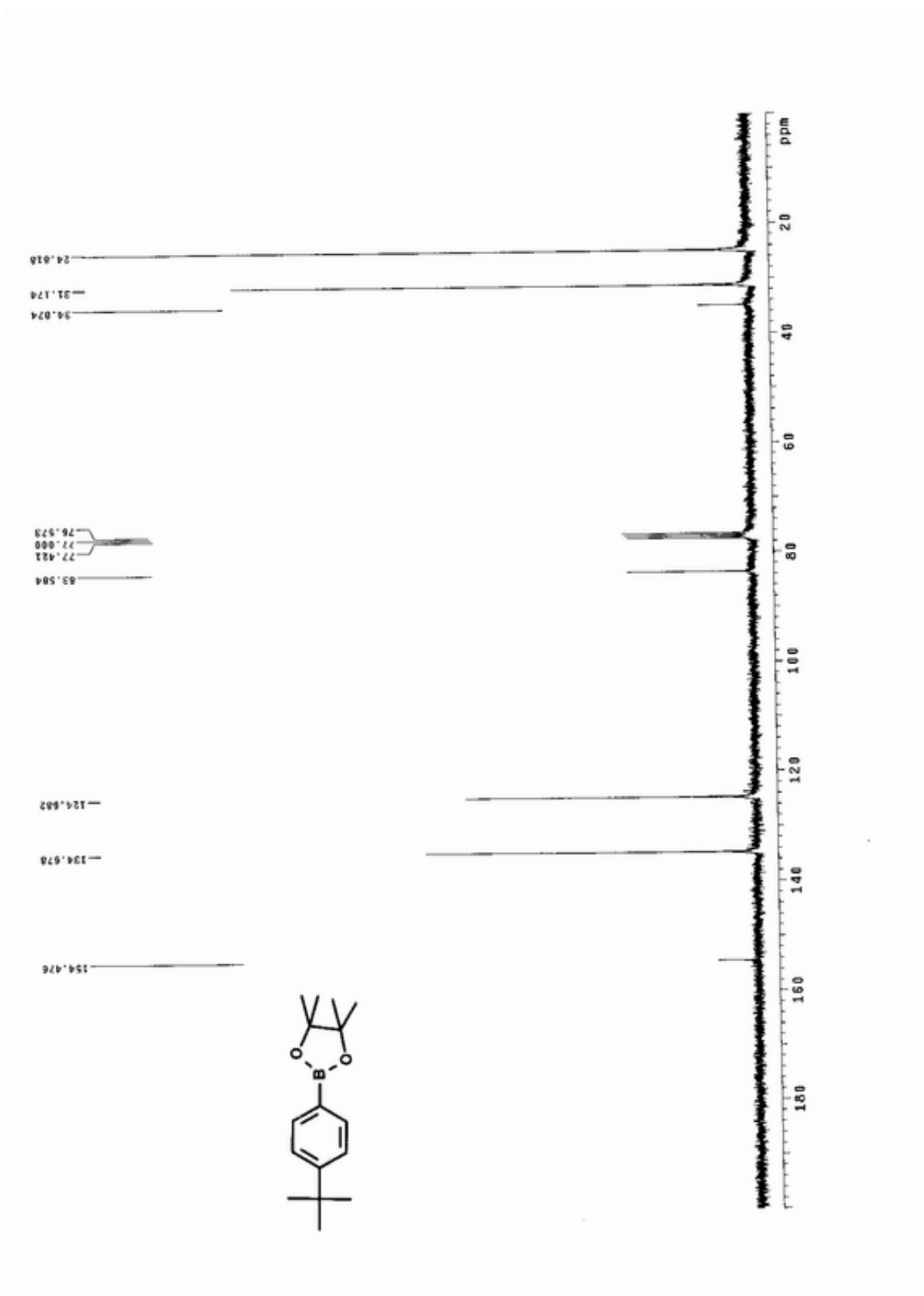
附圖. 11 ^{13}C -NMR spectrum of M4



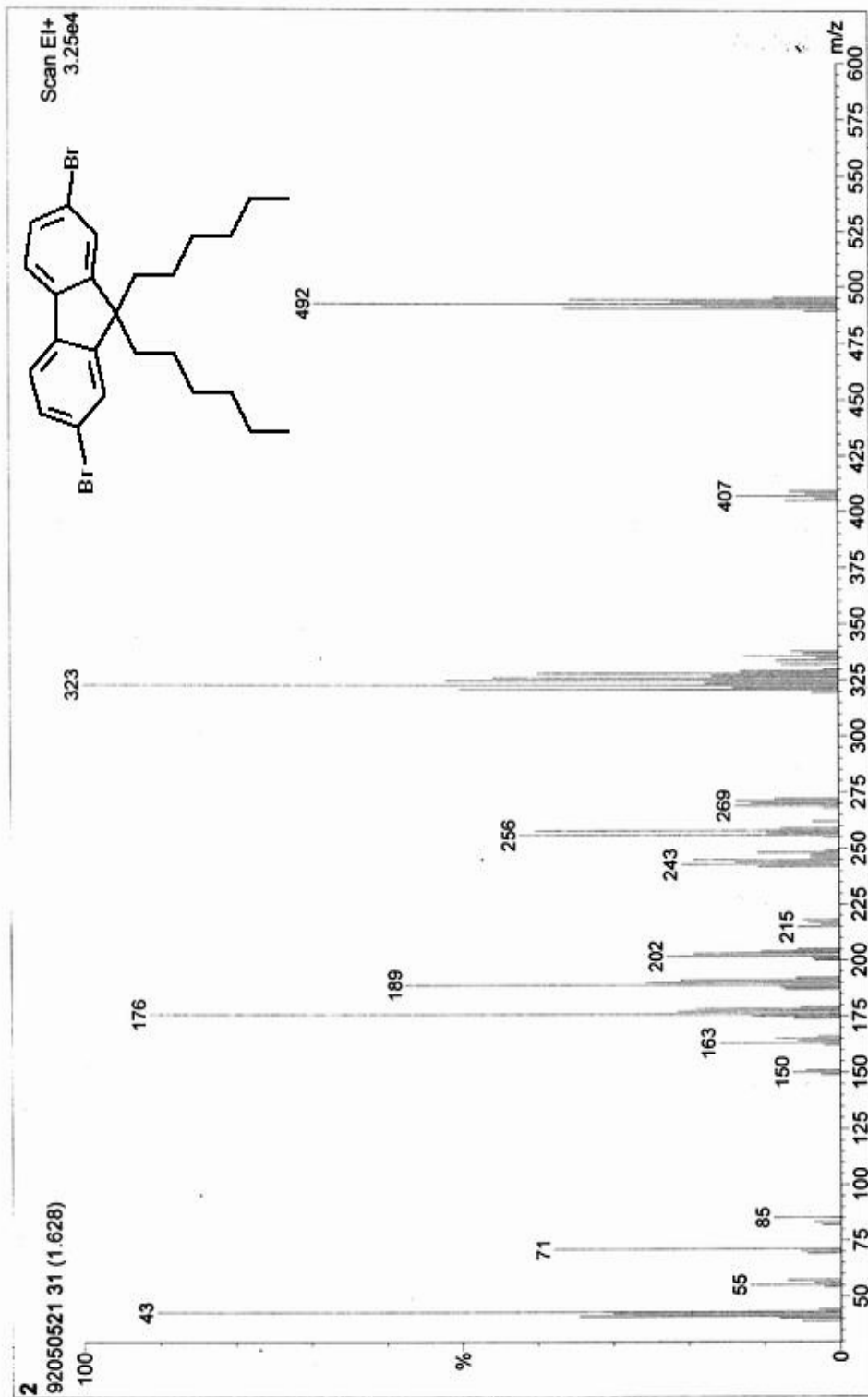
附圖. 12 ^{13}C -NMR spectrum of M5



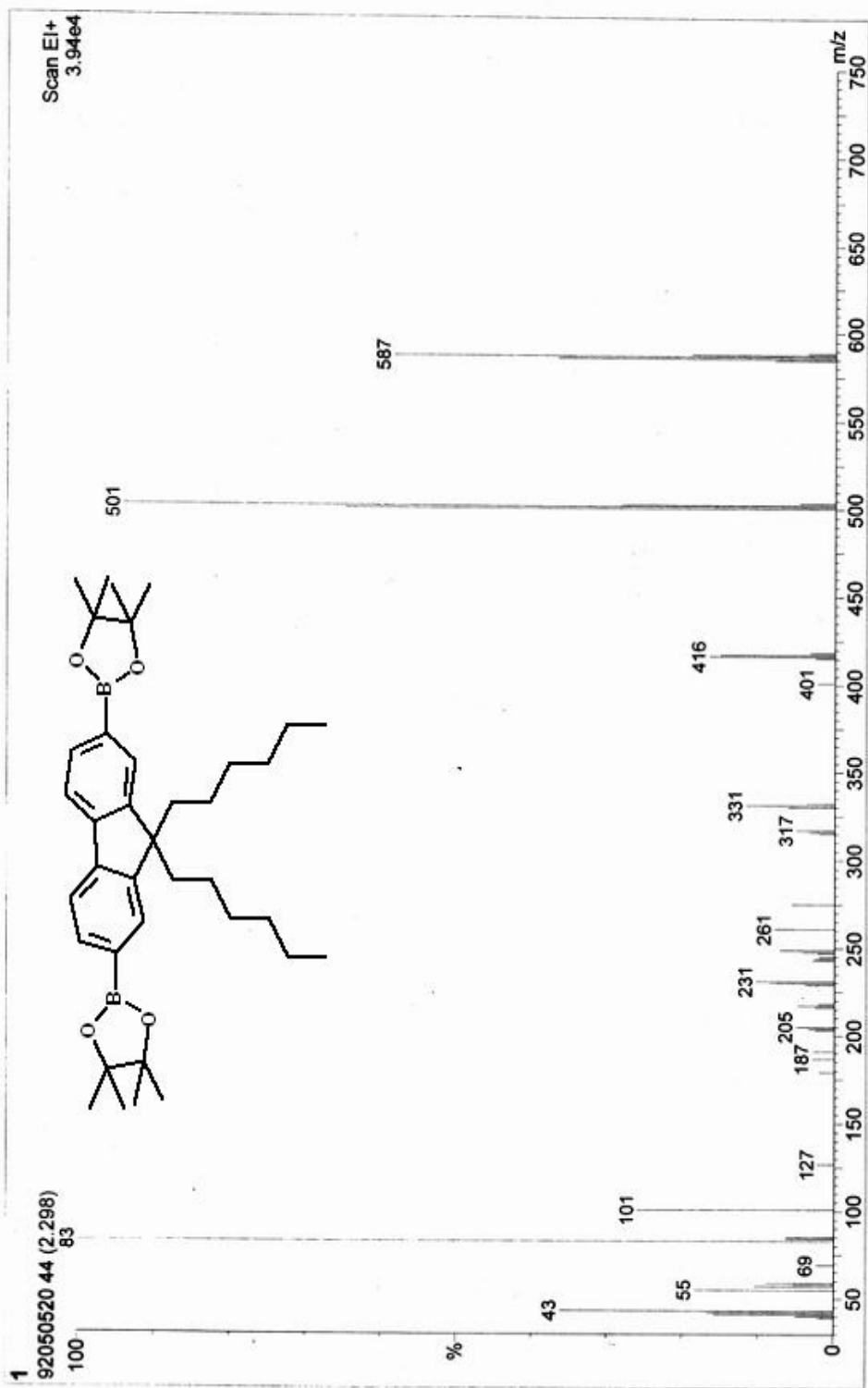
附圖. 13 ^{13}C -NMR spectrum of M6



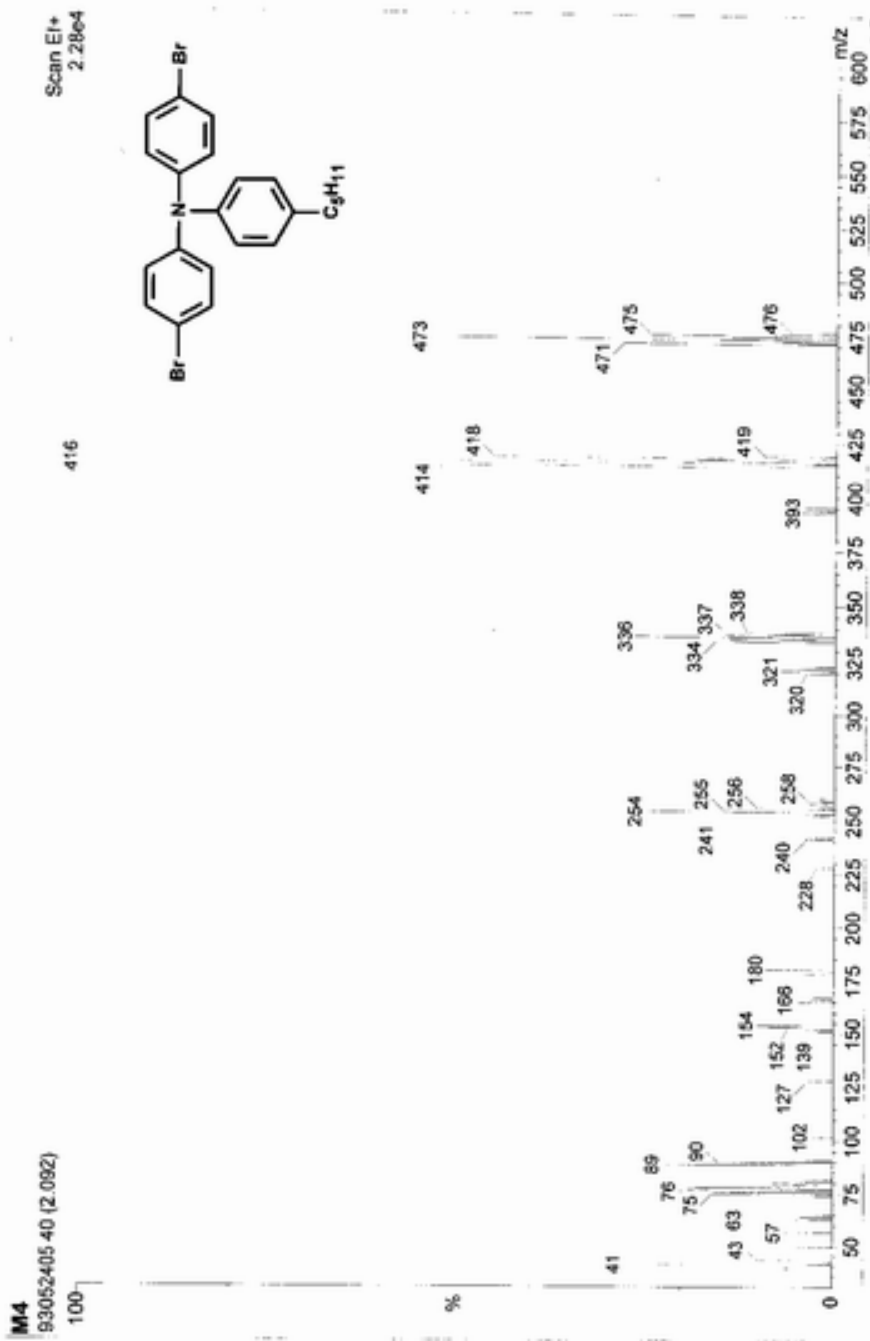
附圖. 14 ^{13}C -NMR spectrum of M7



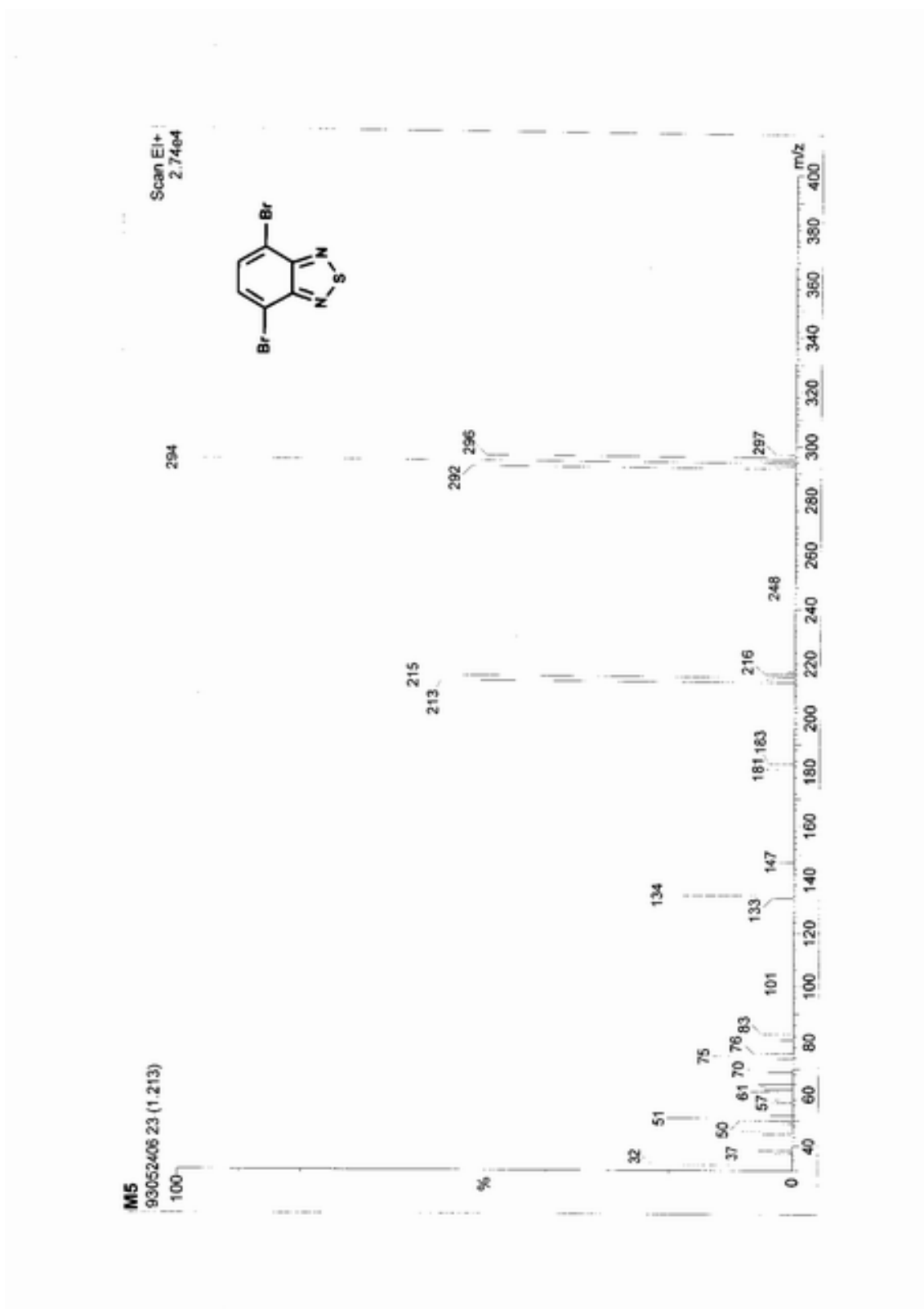
附圖. 15 Mass spectrum of M1



附圖. 16 Mass spectrum of M2



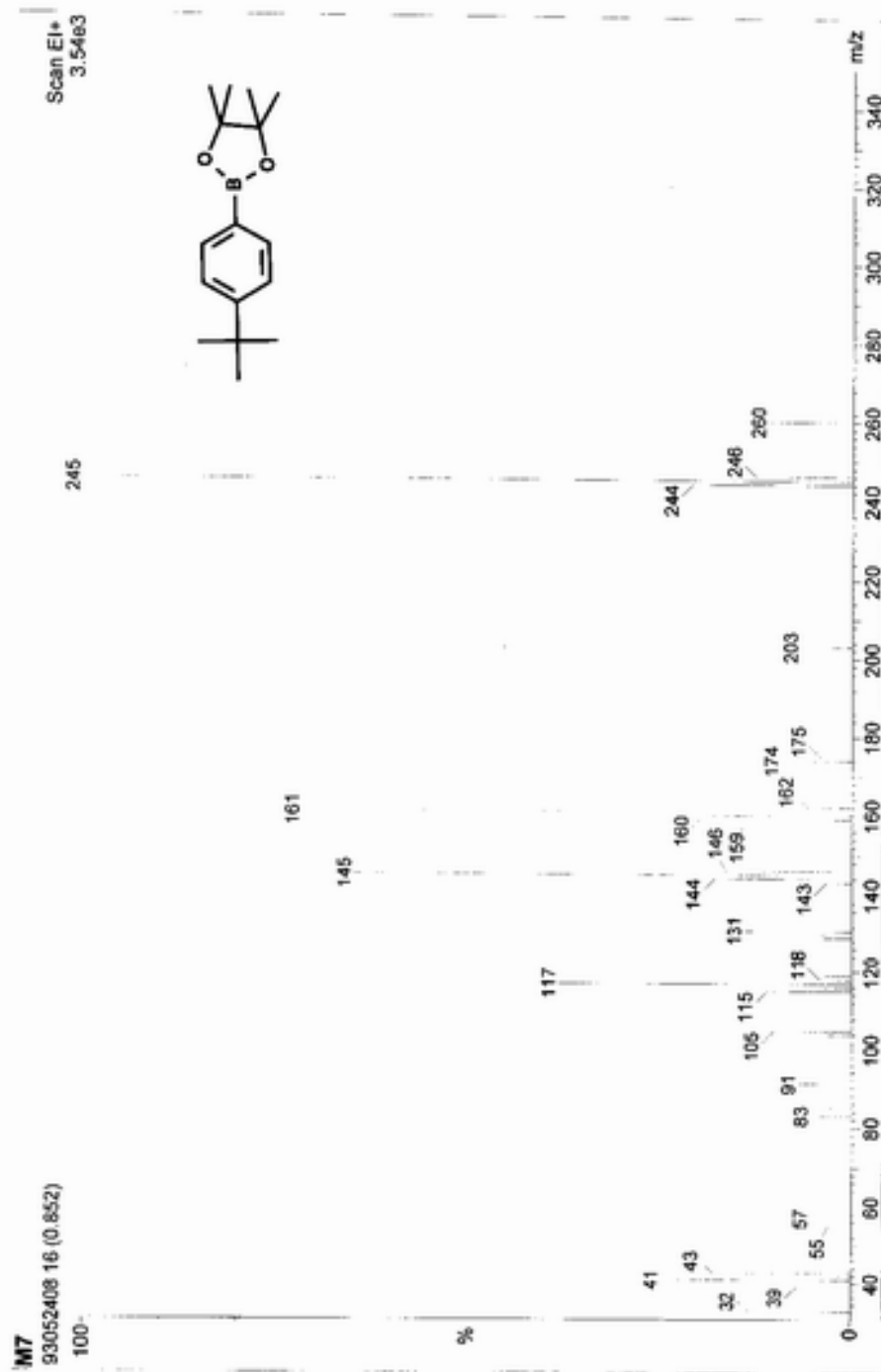
附圖. 17 Mass spectrum of M4



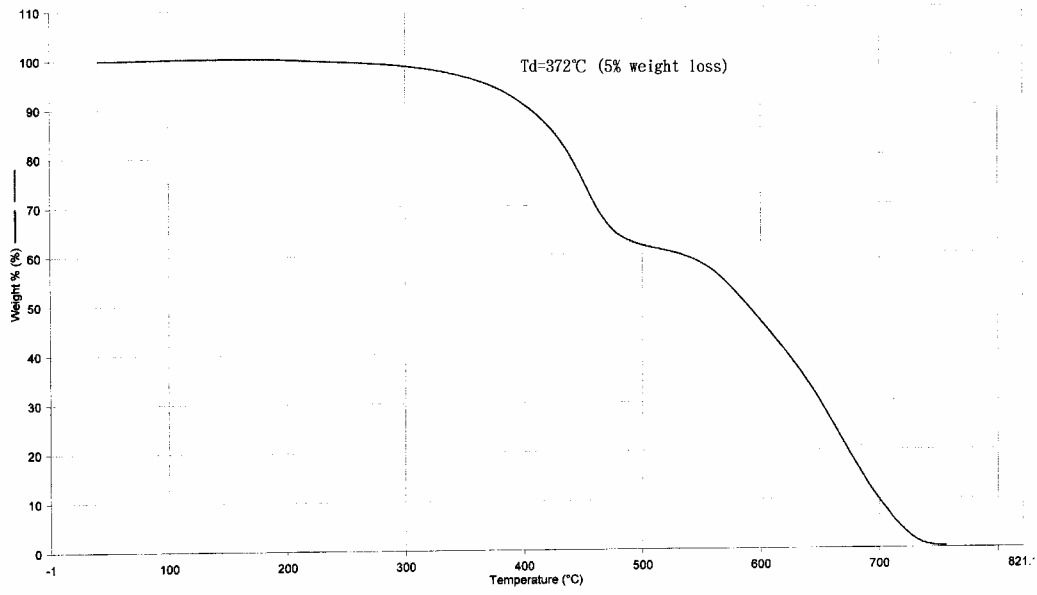
附圖. 18 Mass spectrum of M5



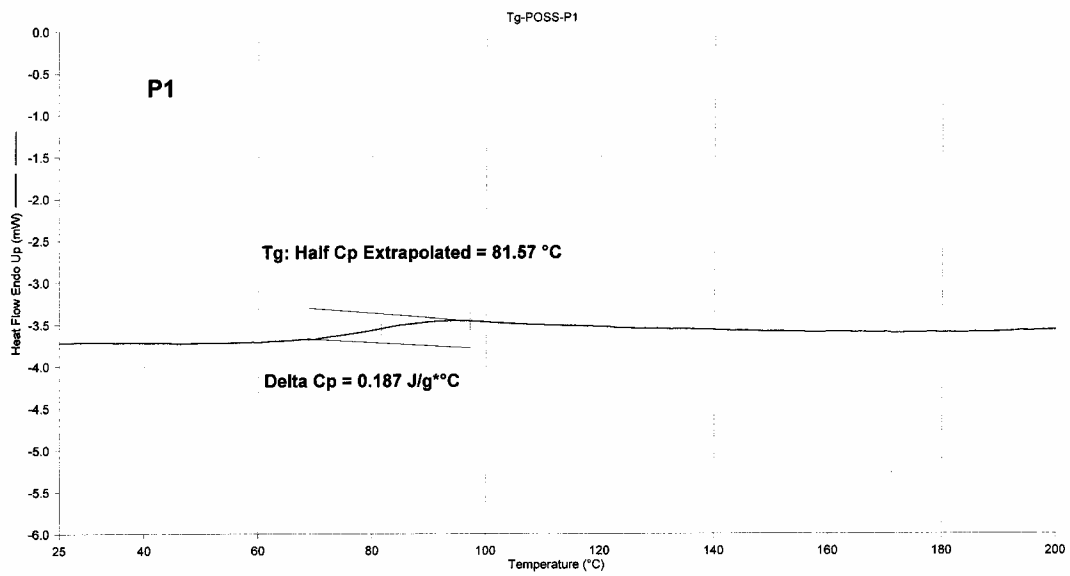
附圖. 19 Mass spectrum of M6



附圖. 20 Mass spectrum of M7

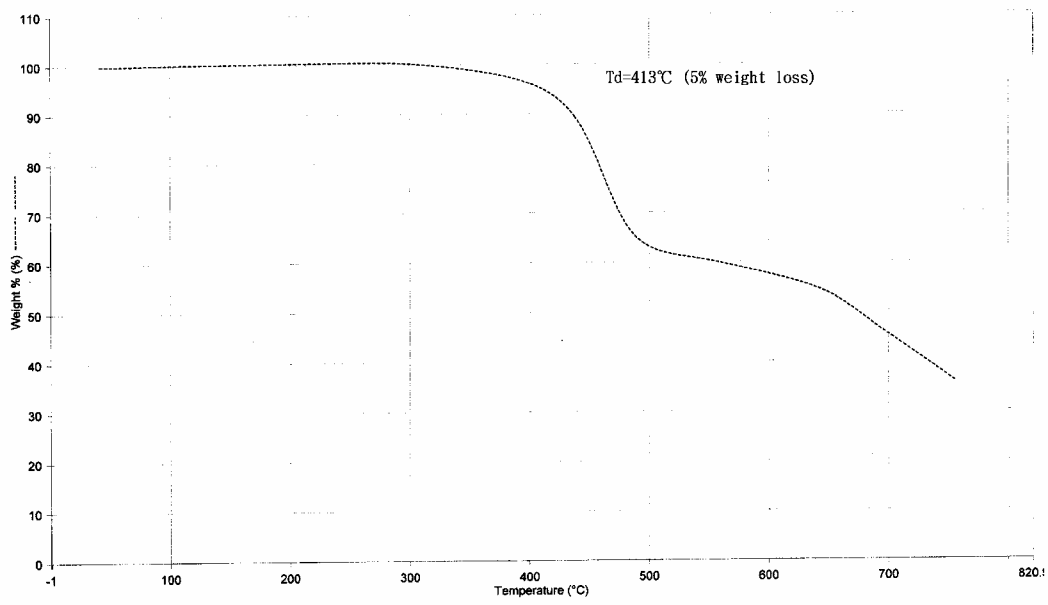


(a)

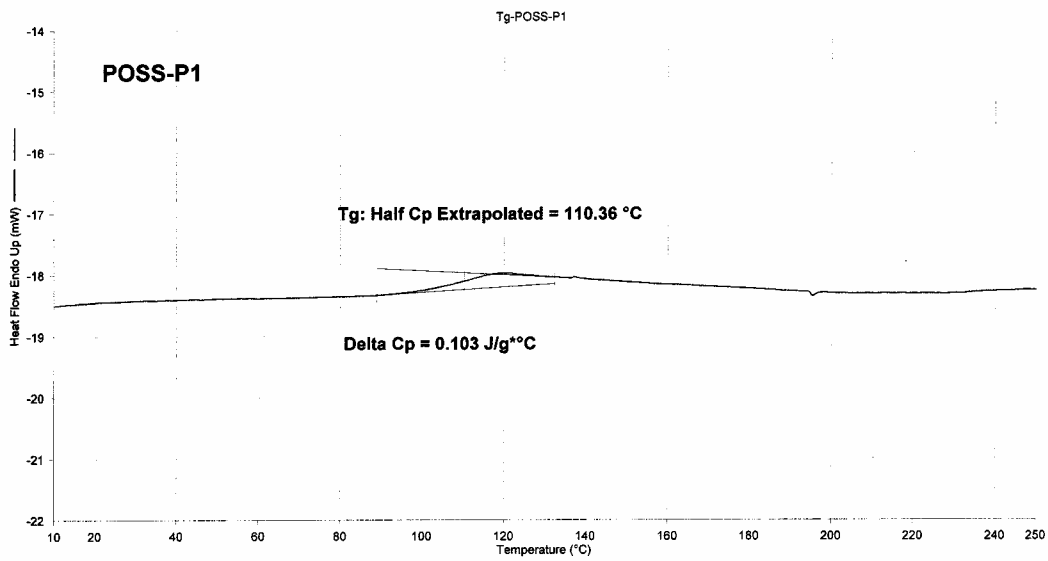


(b)

附圖.21 (a)TGA (b)DSC thermogram of P1

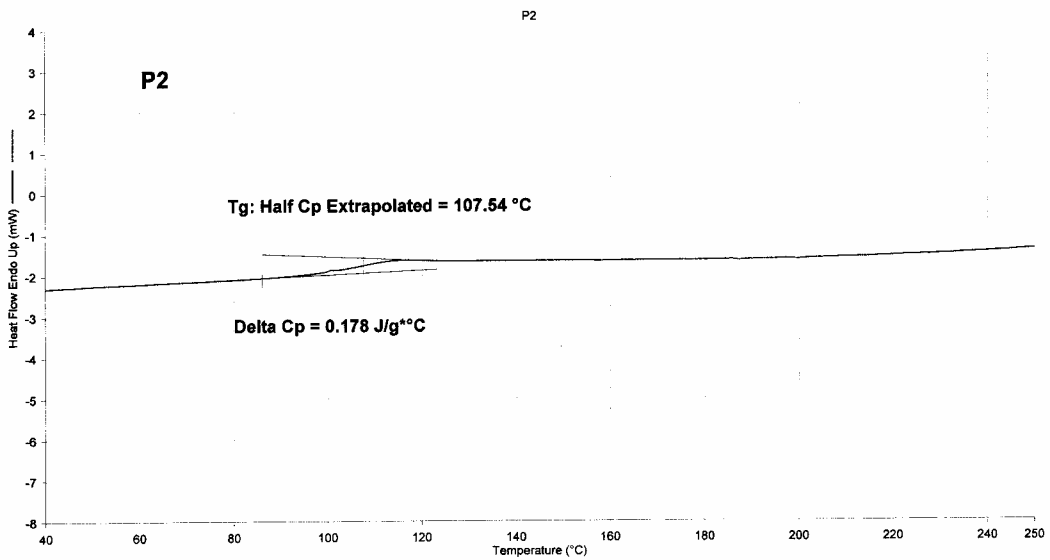
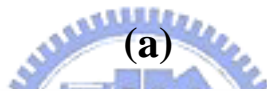
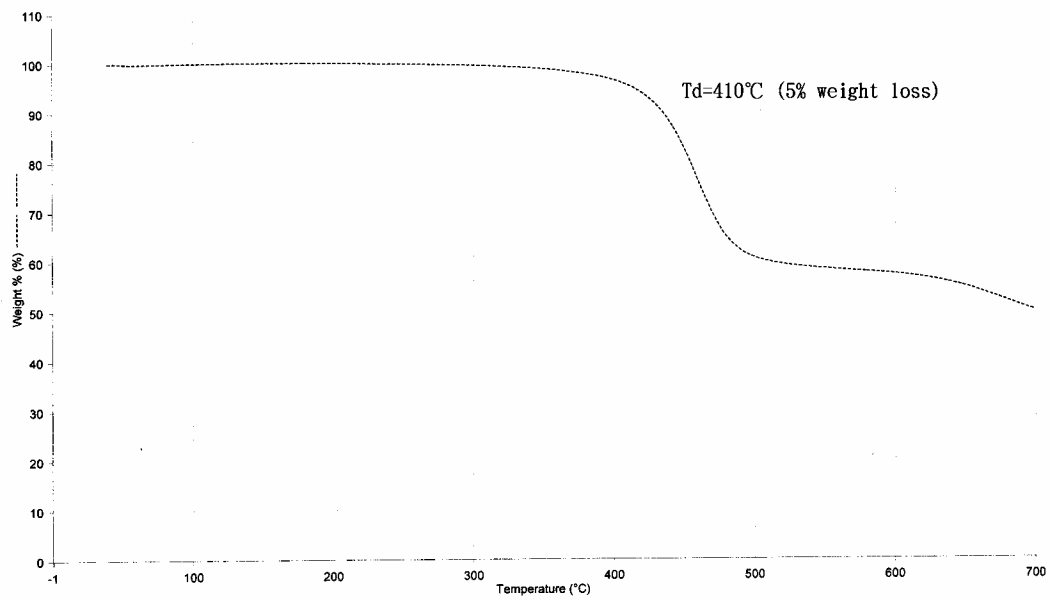


(a)



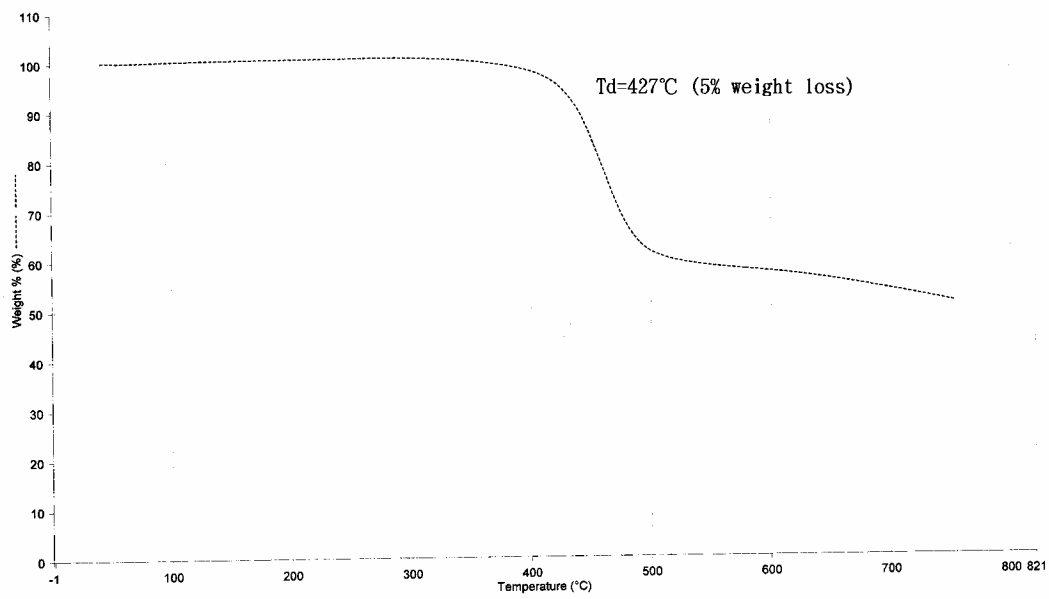
(b)

附圖.22 (a)TGA (b)DSC thermogram of POSS-P1

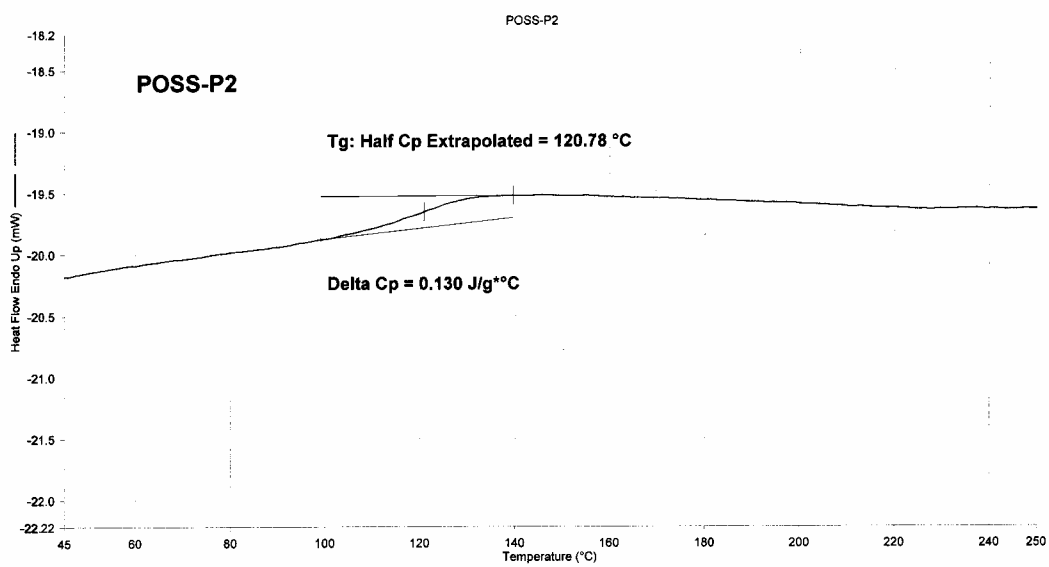


(b)

附圖.23 (a)TGA (b)DSC thermogram of P2

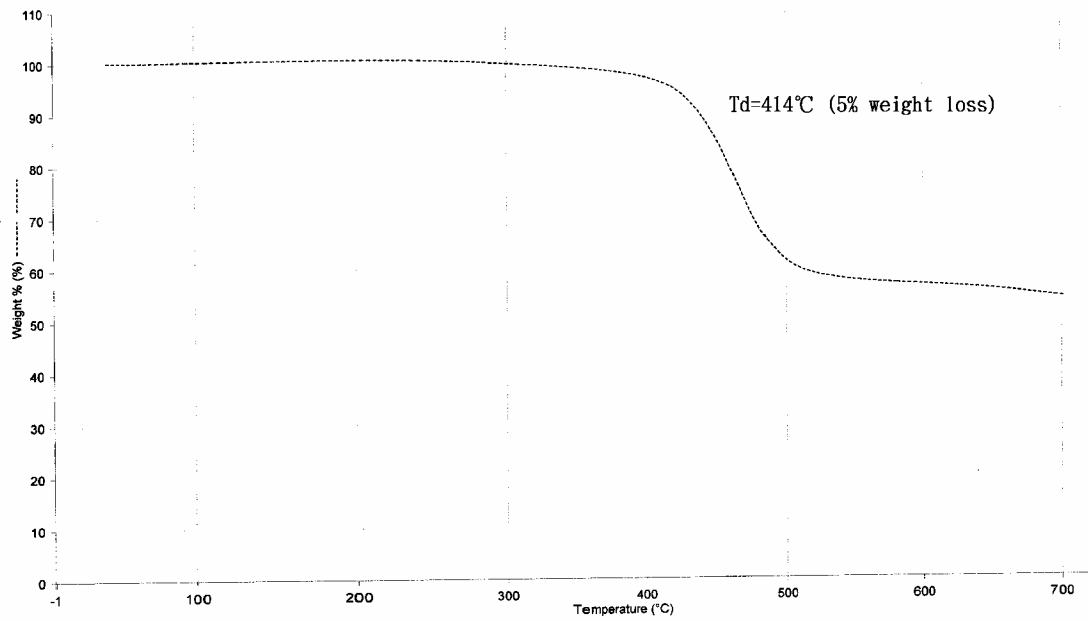


(a)

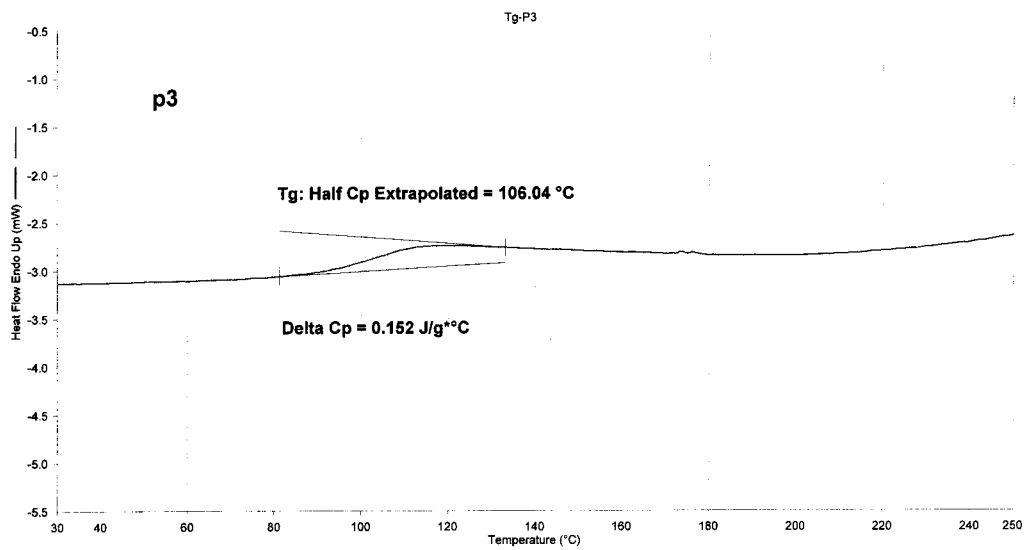


(b)

附圖.24 (a)TGA (b)DSC thermogram of POSS-P2

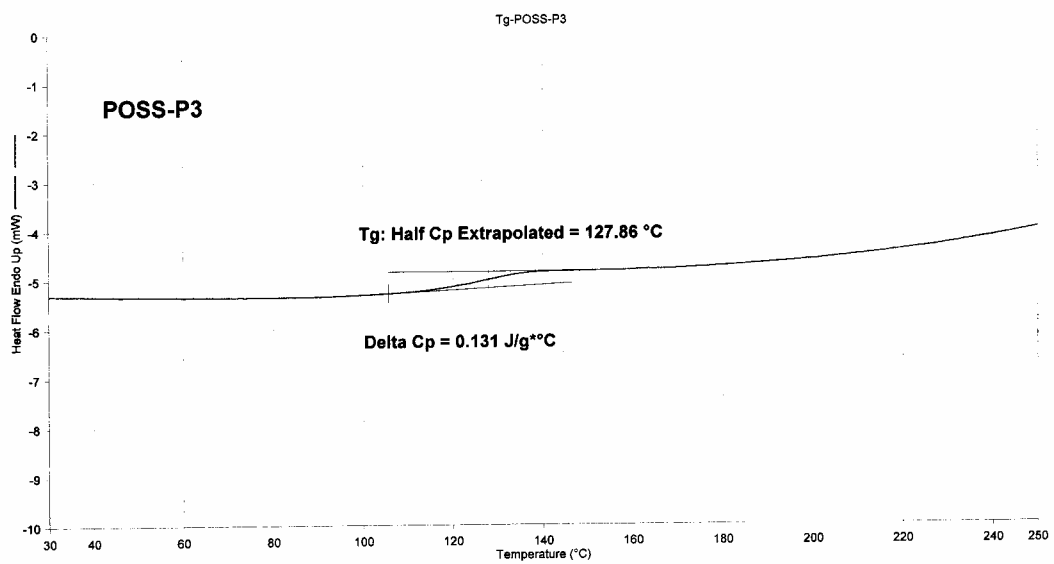
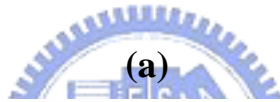
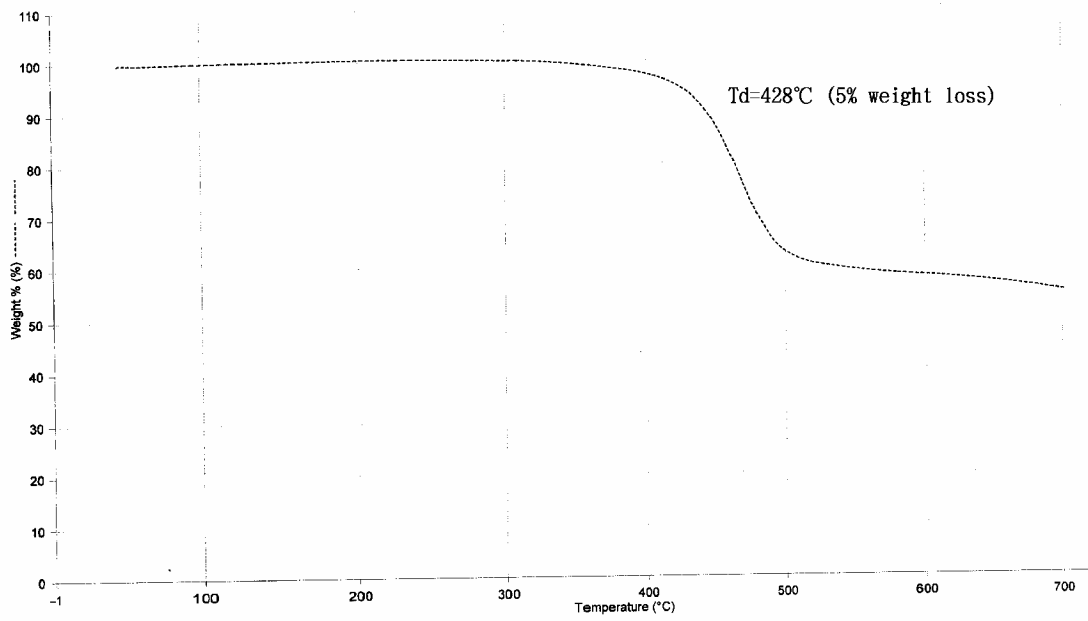


(a)



(b)

附圖.25 (a)TGA (b)DSC thermogram of P3



(b)

附圖.26 (a)TGA (b)DSC thermogram of POSS-P3