

Proton Assisted Switching of Reaction Pathways of Stilbene Analogues Brought by Direct Irradiation

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Supporting information:

Figure 1: ¹H-NMR for 4-(2-naphthyl)but-3-en-2-one (**2a**).

Figure 2: ¹³C-NMR for 4-(2-naphthyl)but-3-en-2-one (**2a**).

Figure 3: ¹H-NMR for 4-(2-phenathryl)but-3-en-2-one (**2b**).

Figure 4: ¹³C-NMR for 4-(2-phenathryl)but-3-en-2-one (**2b**).

Figure 5: ¹H-NMR for 4-benzo[b]thiophen-5-ylbut-3-en-2-one (**2c**).

Figure 6: ¹³C-NMR for 4-benzo[b]thiophen-5-ylbut-3-en-2-one (**2c**).

Figure 7: ¹H-NMR for 4-oxainden-5-ylbut-3-en-2-one (**2d**).

Figure 8: ¹³C-NMR for 4-oxainden-5-ylbut-3-en-2-one (**2d**).

Figure 9: ¹H-NMR for 1,2,4-trihydrophenanthren-3-one (**3a**).

Figure 10: ¹³C-NMR for 1,2,4-trihydrophenanthren-3-one (**3a**).

Figure 11: ¹H-NMR for tetracyclo[8.8.0.0^{2,7}.0^{13,18}]octadeca-1(10),2(7),8,11,13(18),14,16-heptaen-4-one (**3b**).

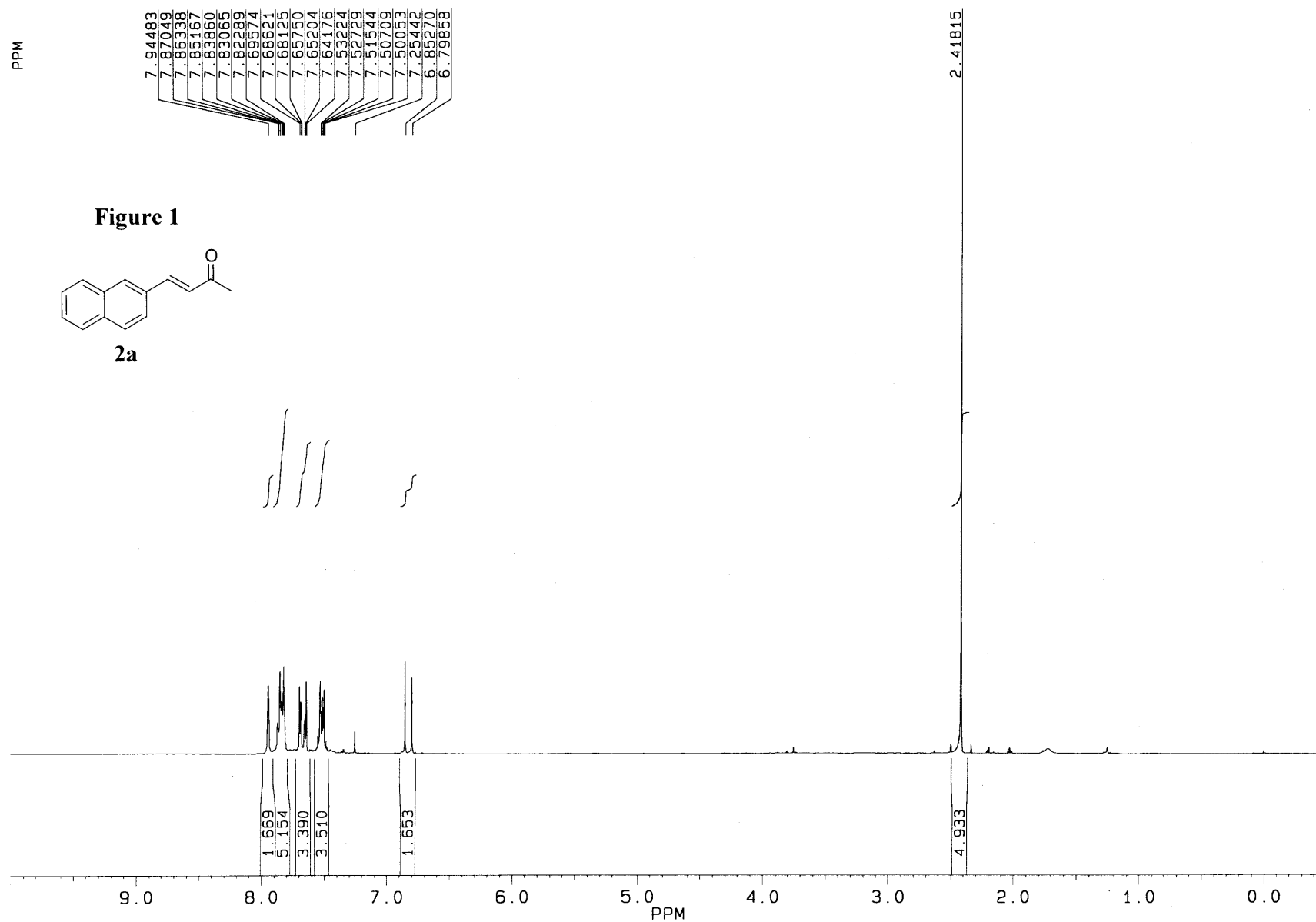
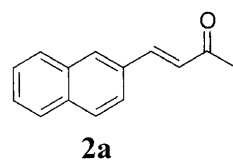
Figure 12: ¹³C-NMR for tetracyclo[8.8.0.0^{2,7}.0^{13,18}]octadeca-1(10),2(7),8,11,13(18),14,16-heptaen-4-one (**3b**).

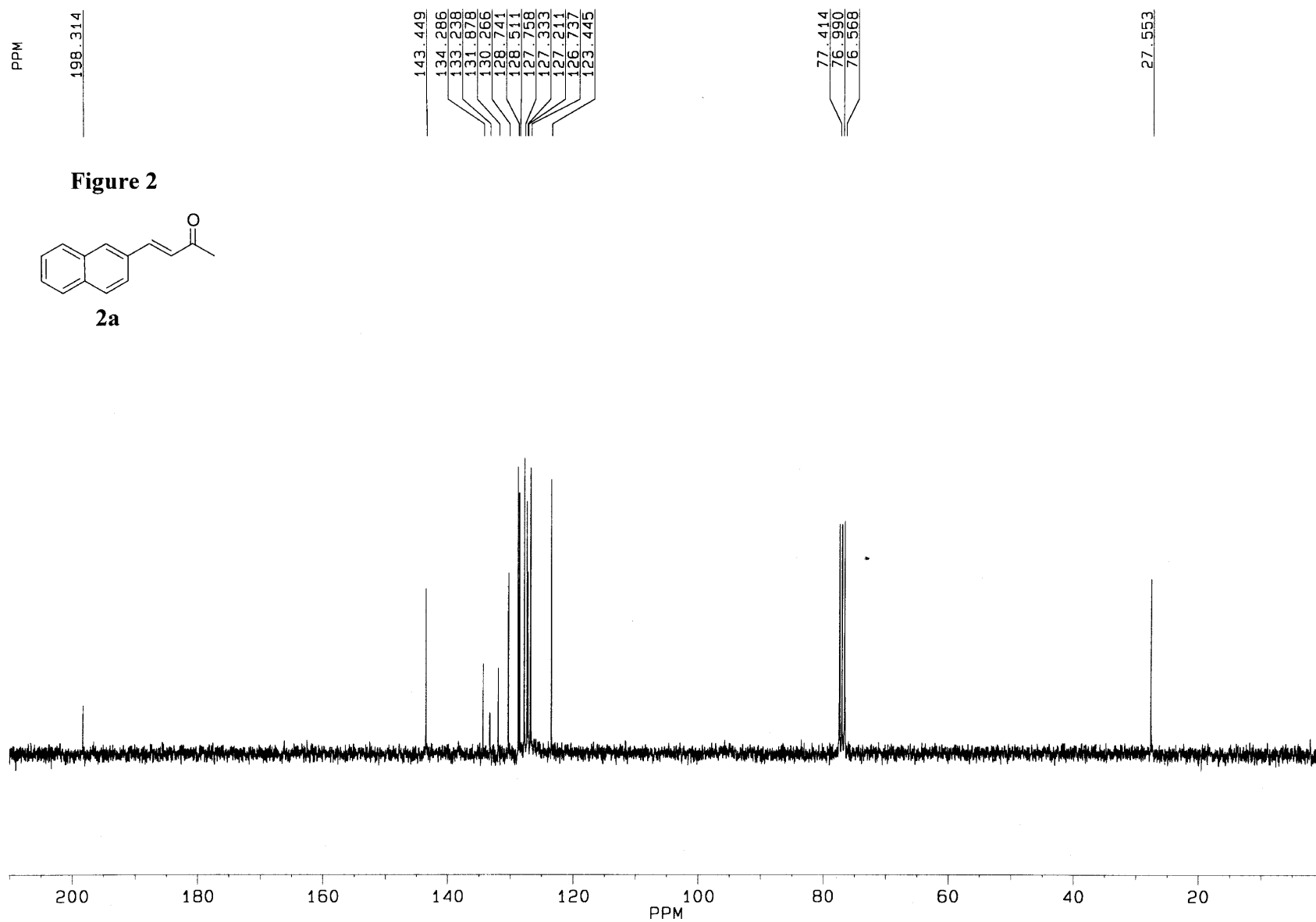
Figure 13: ¹H-NMR for 5-thiatricyclo[7.4.0.0^{2,6}]trideca-1(2),3,6(7),8-tetraen-12-one (**3c**).

Figure 14: ¹³C-NMR for 5-thiatricyclo[7.4.0.0^{2,6}]trideca-1(2),3,6(7),8-tetraen-12-one (**3c**).

Figure 15: ¹H-NMR for 5-oxatricyclo[7.4.0.0^{2,6}]trideca-1(2),3,6(7),8-tetraen-12-one (**3d**).

Figure 16: ¹³C-NMR for 5-oxatricyclo[7.4.0.0^{2,6}]trideca-1(2),3,6(7),8-tetraen-12-one (**3d**).





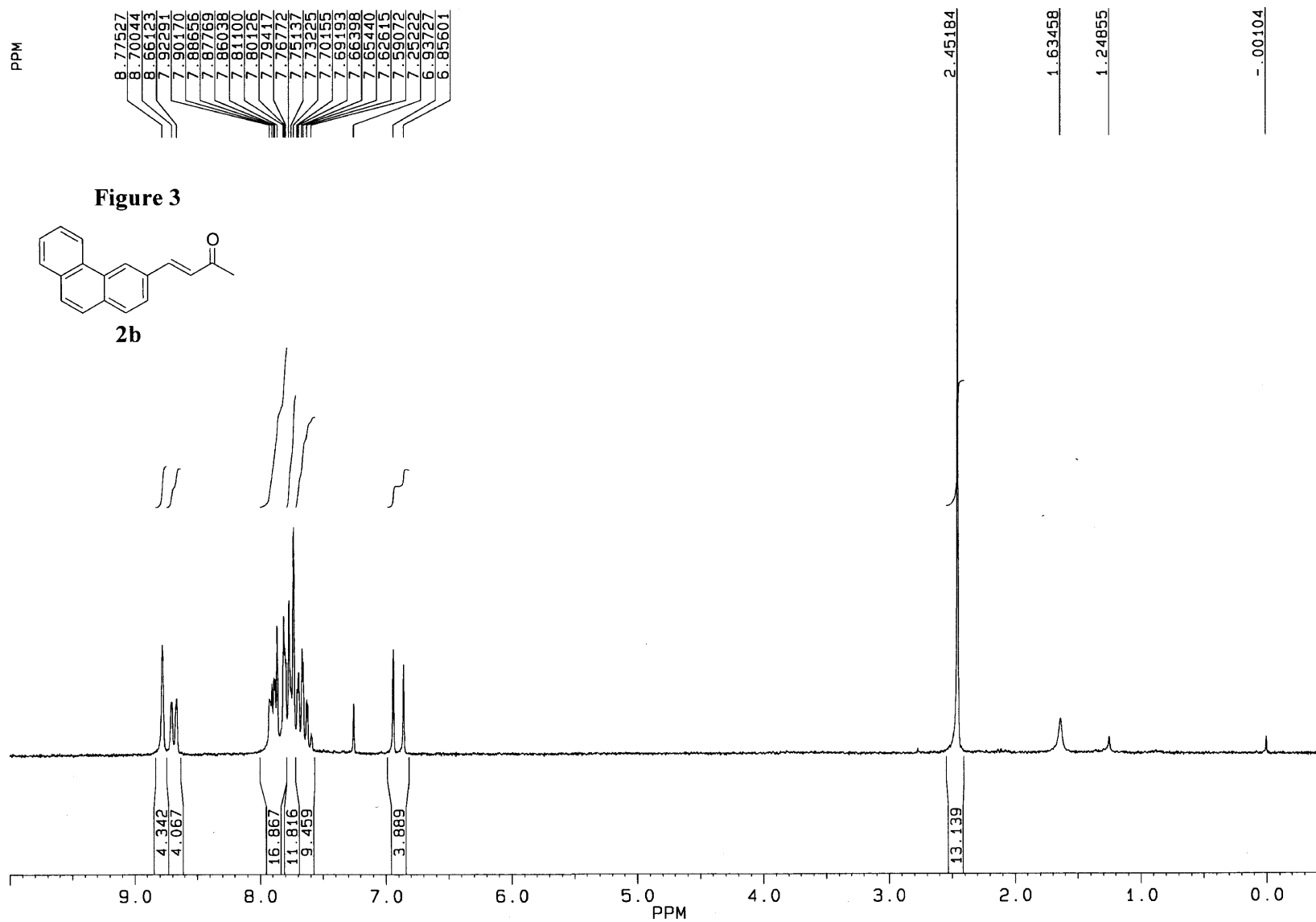
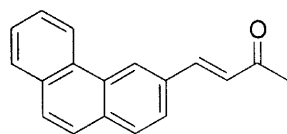
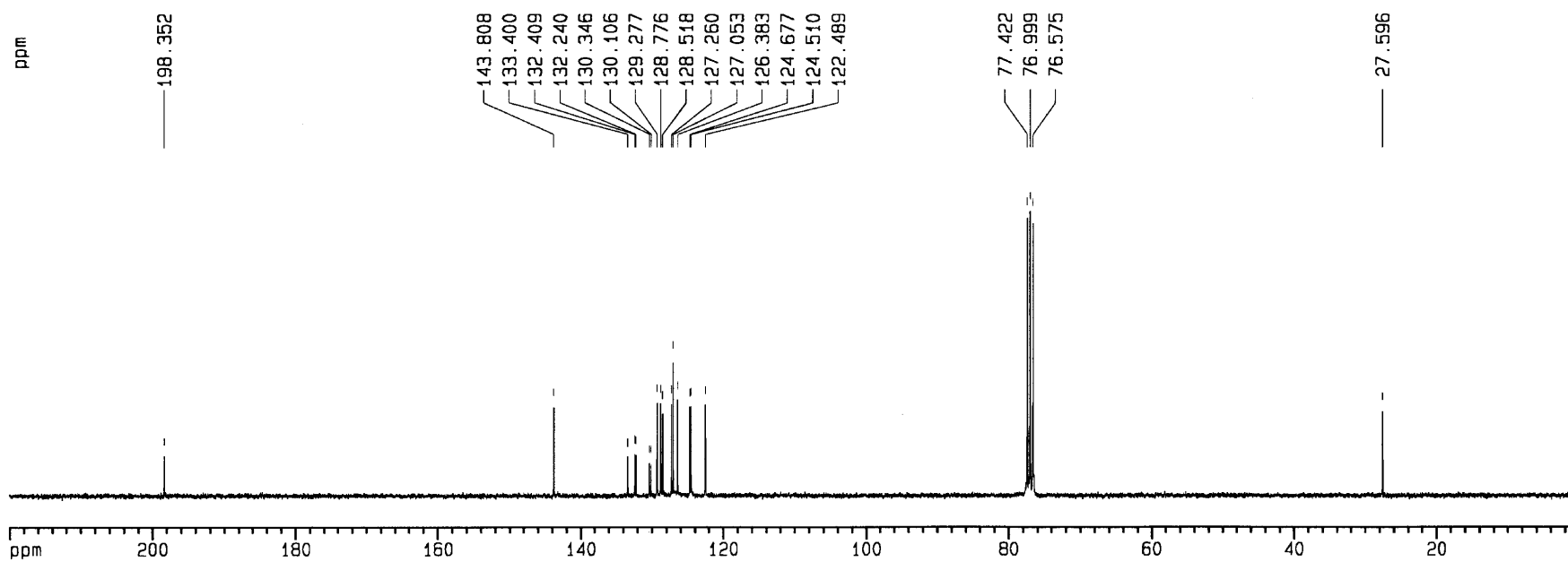


Figure 4



2b



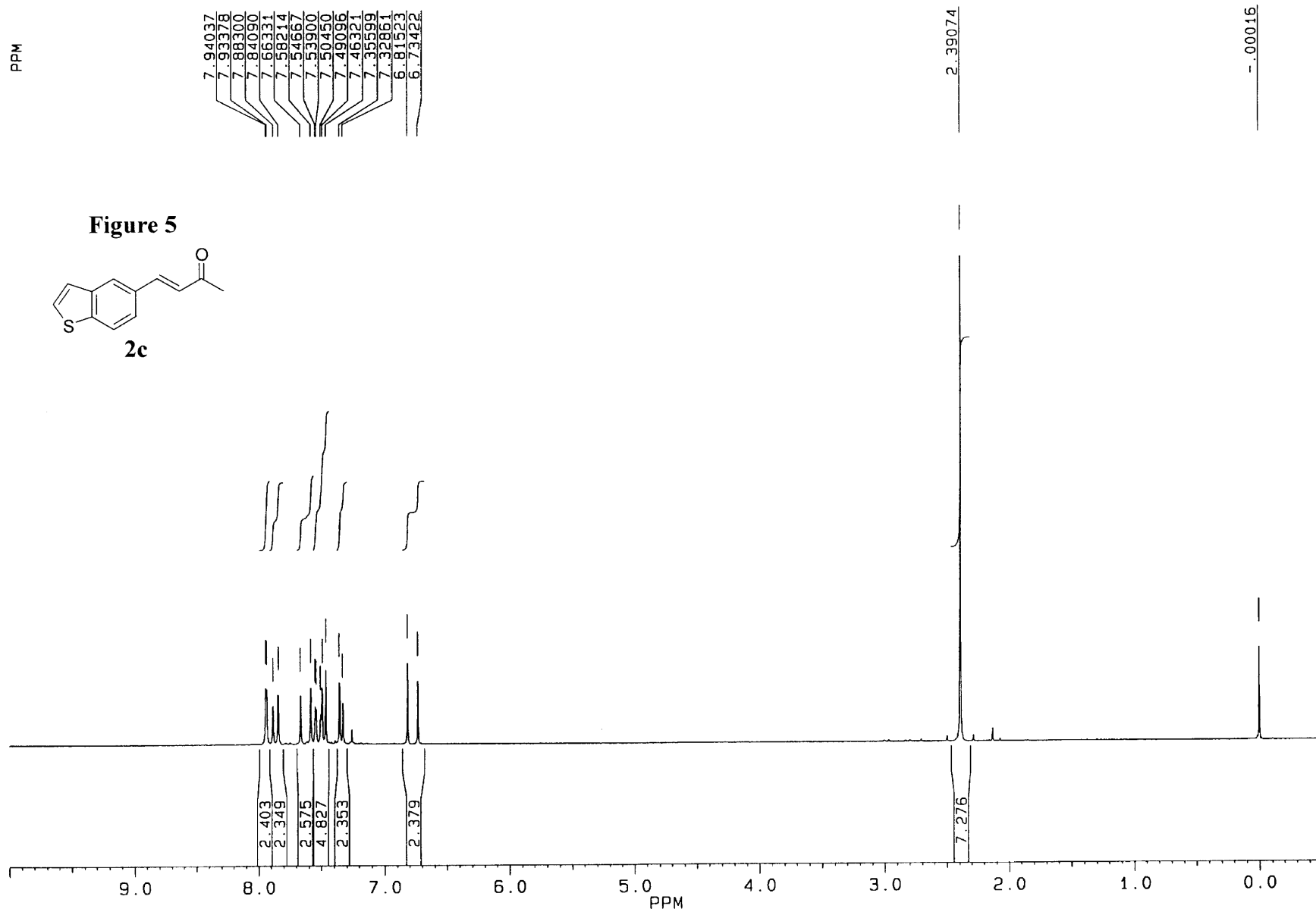
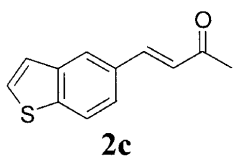
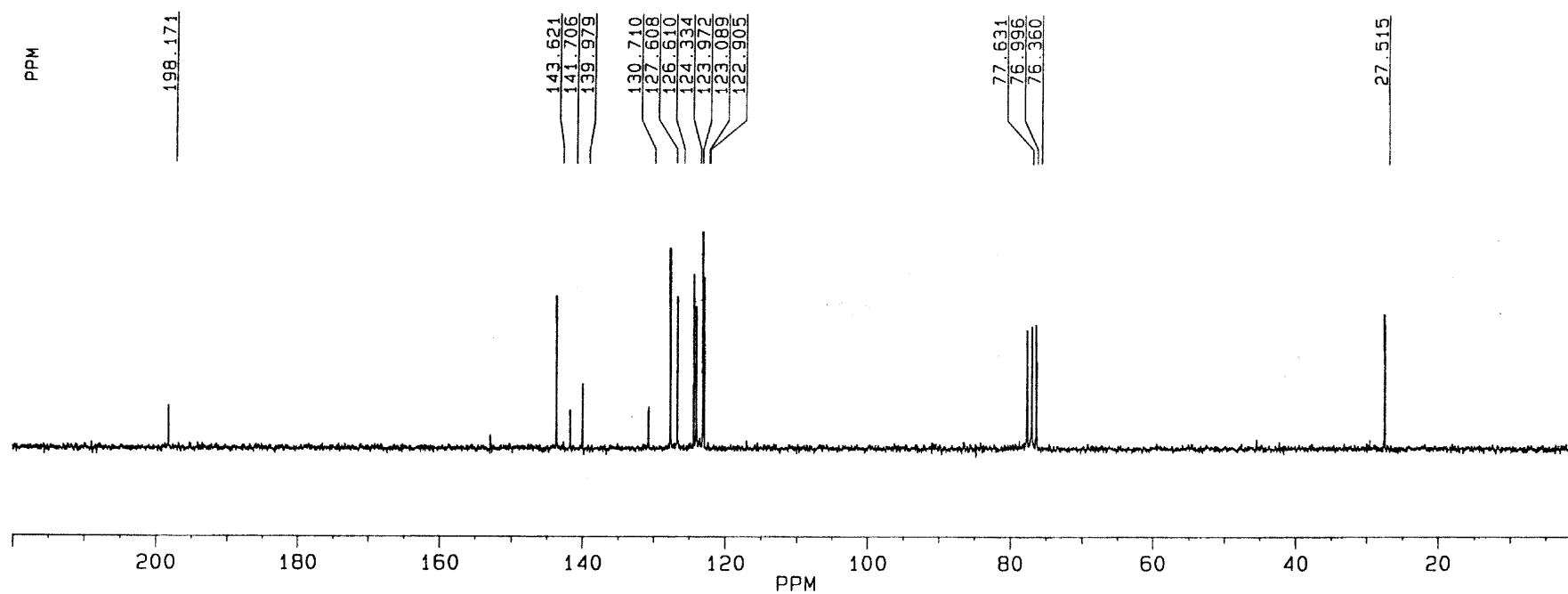
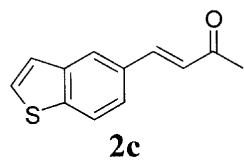


Figure 6



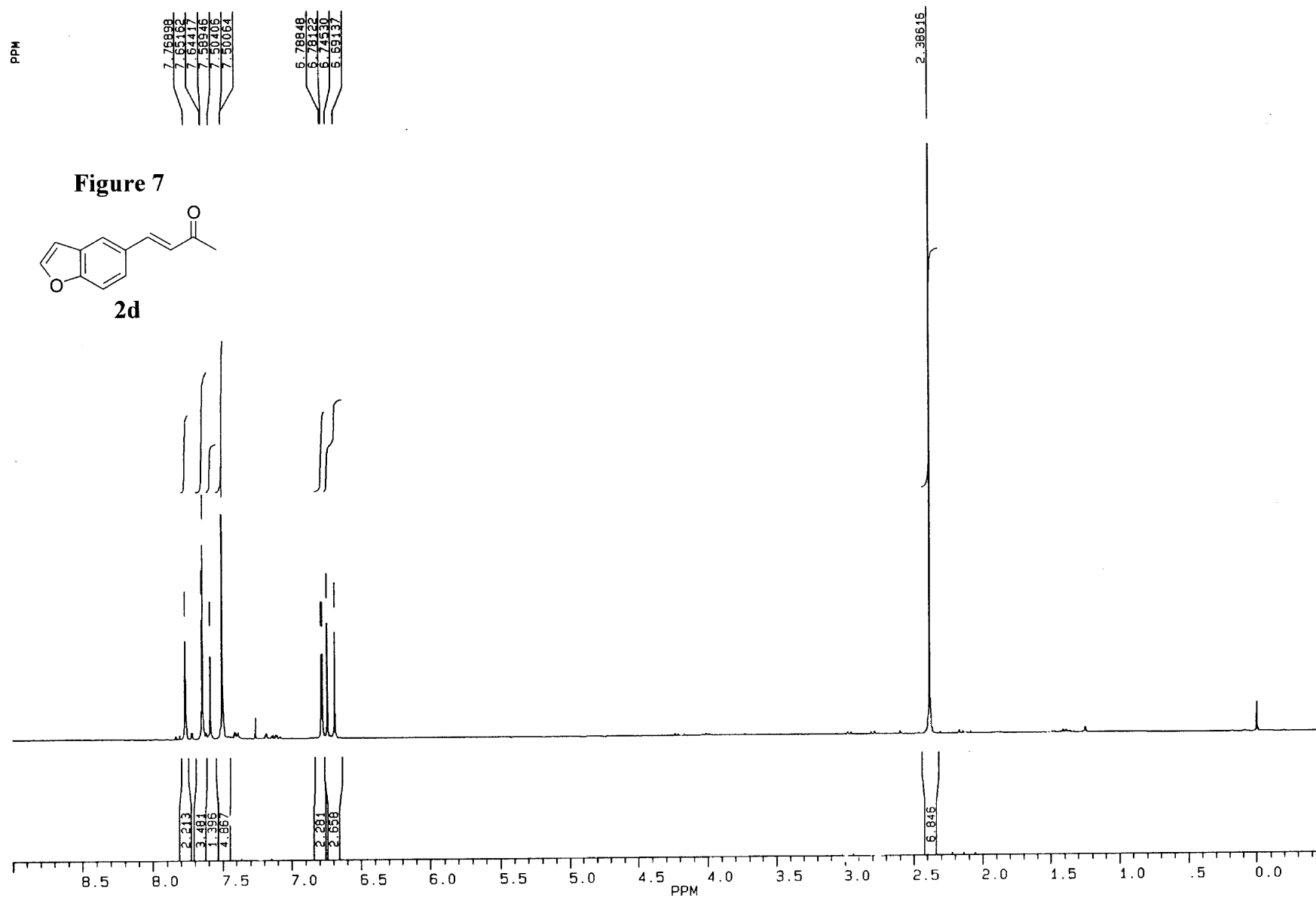
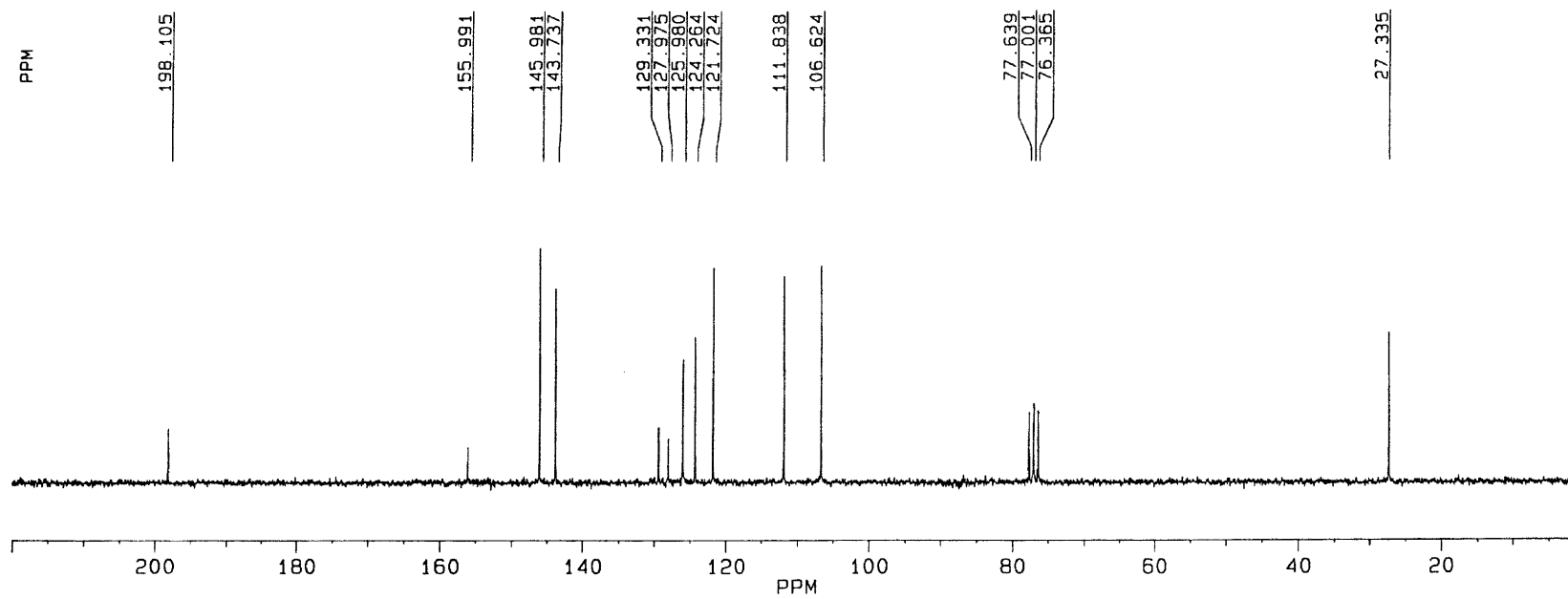
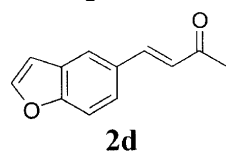
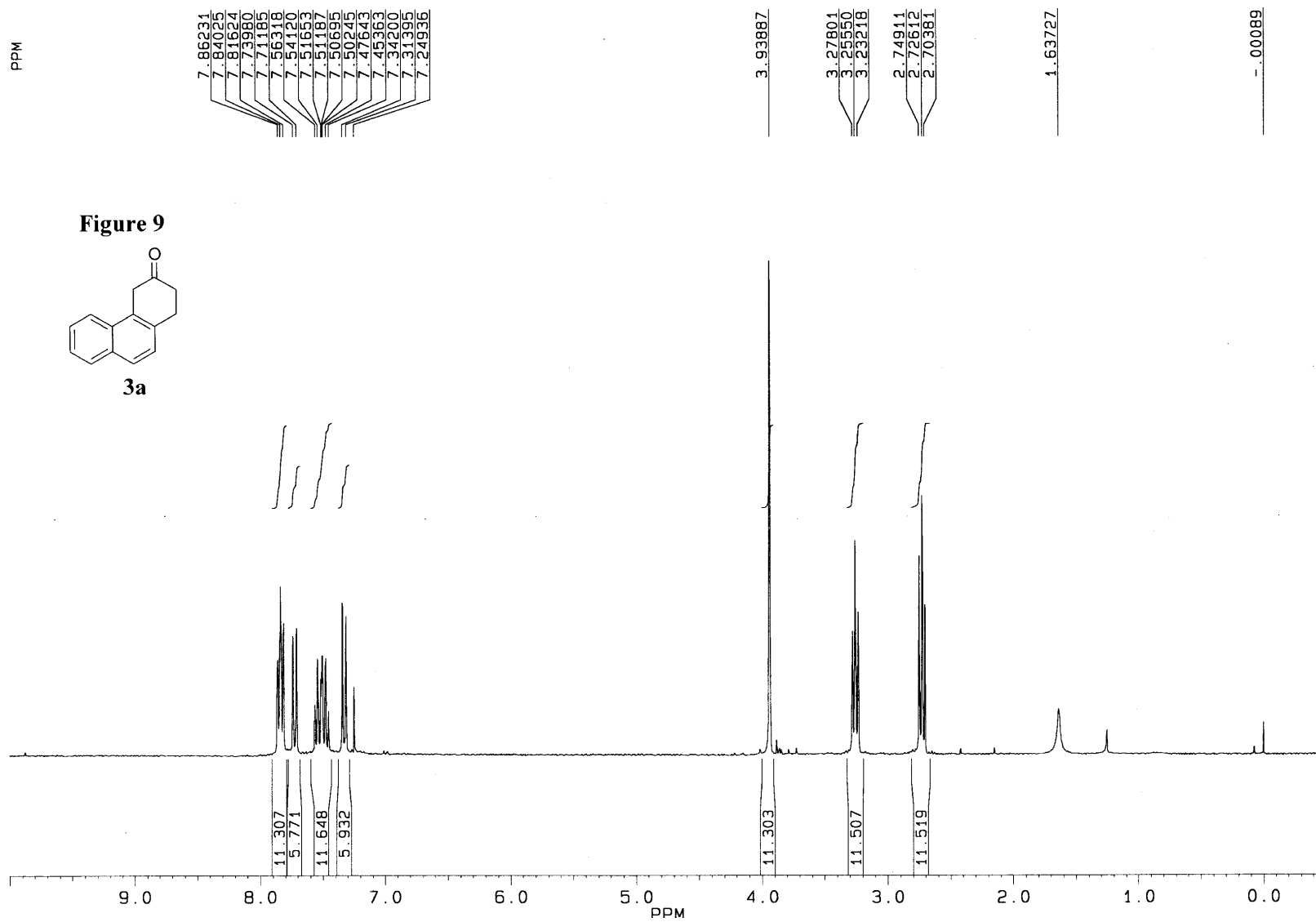
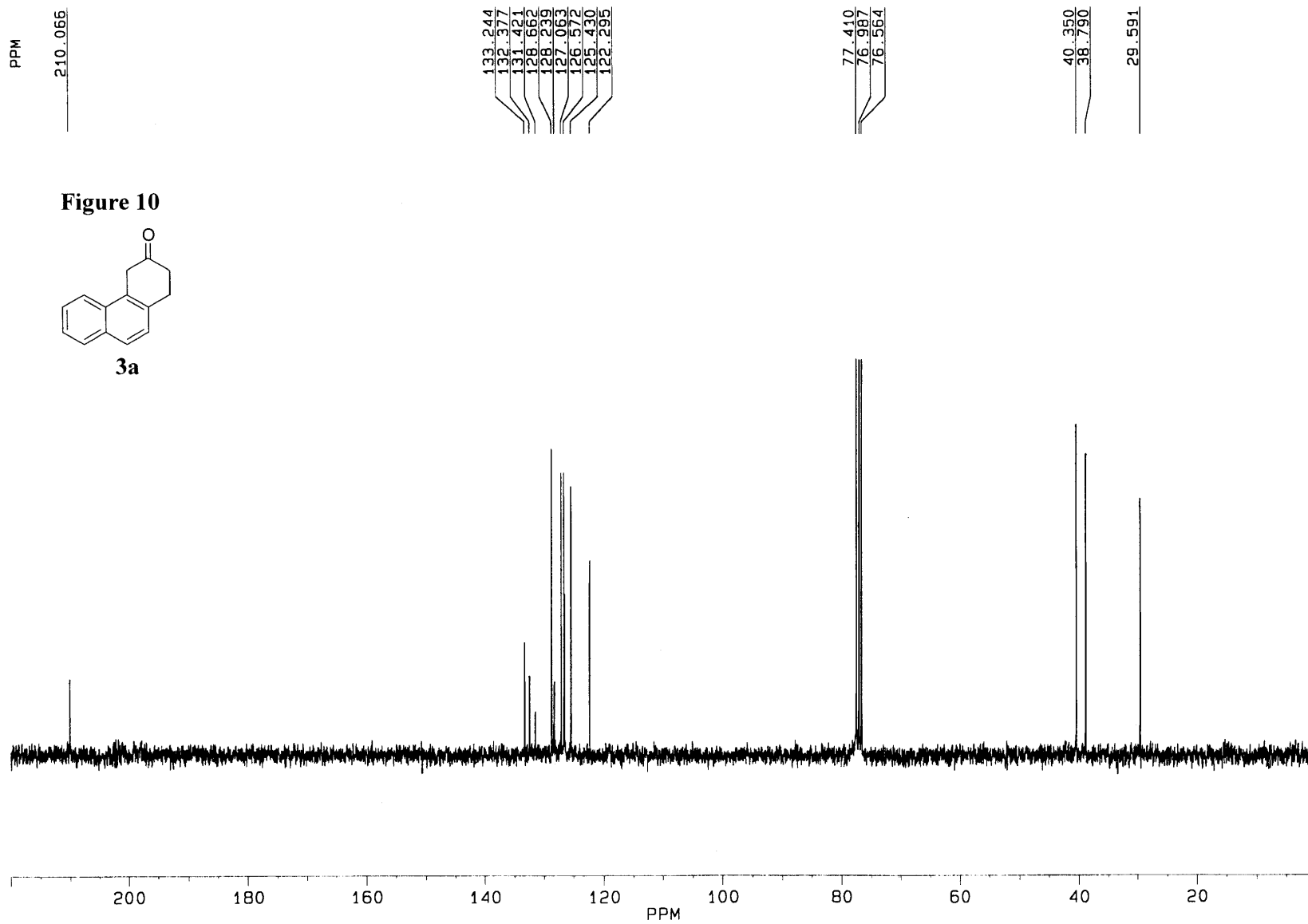


Figure 8







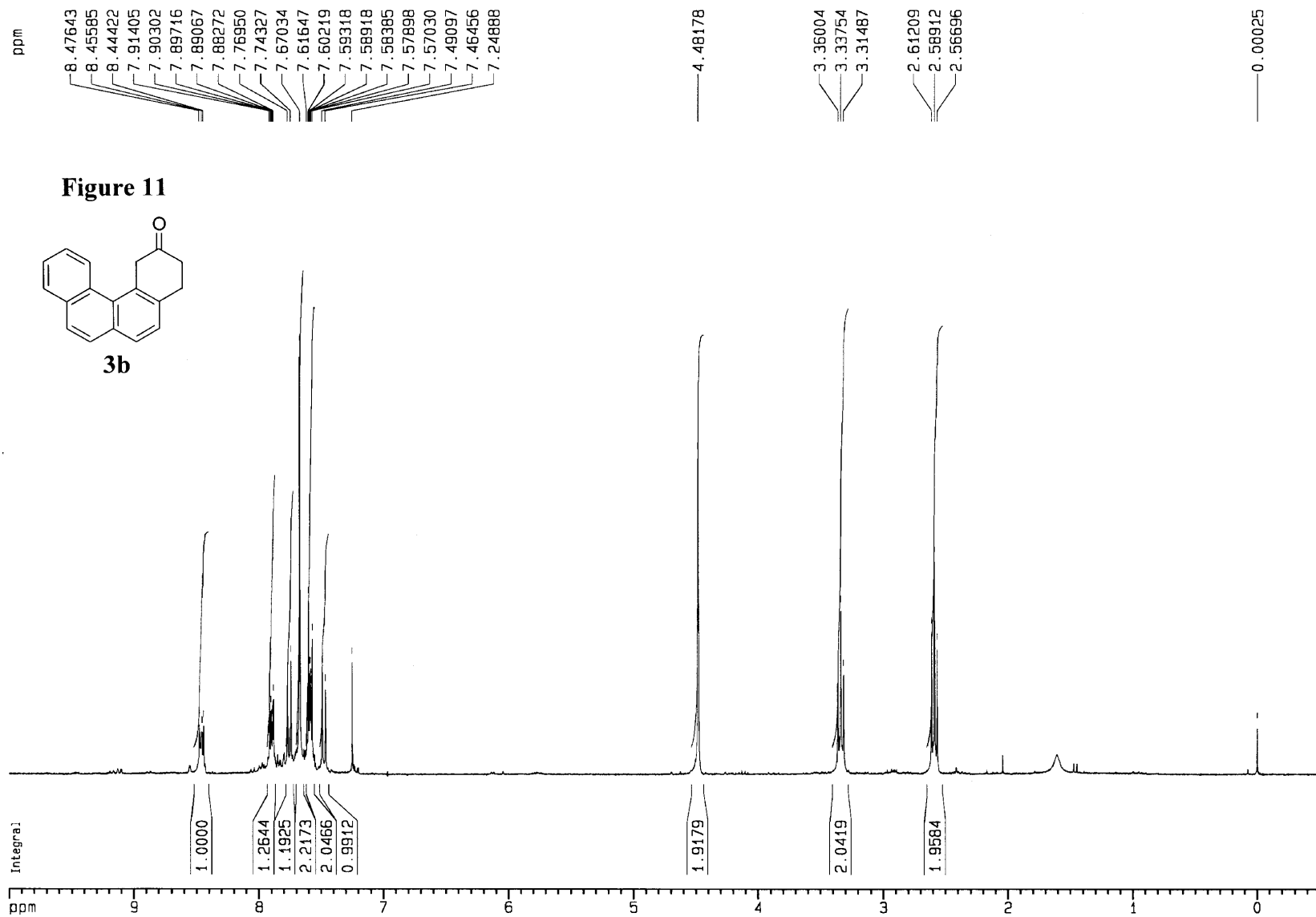
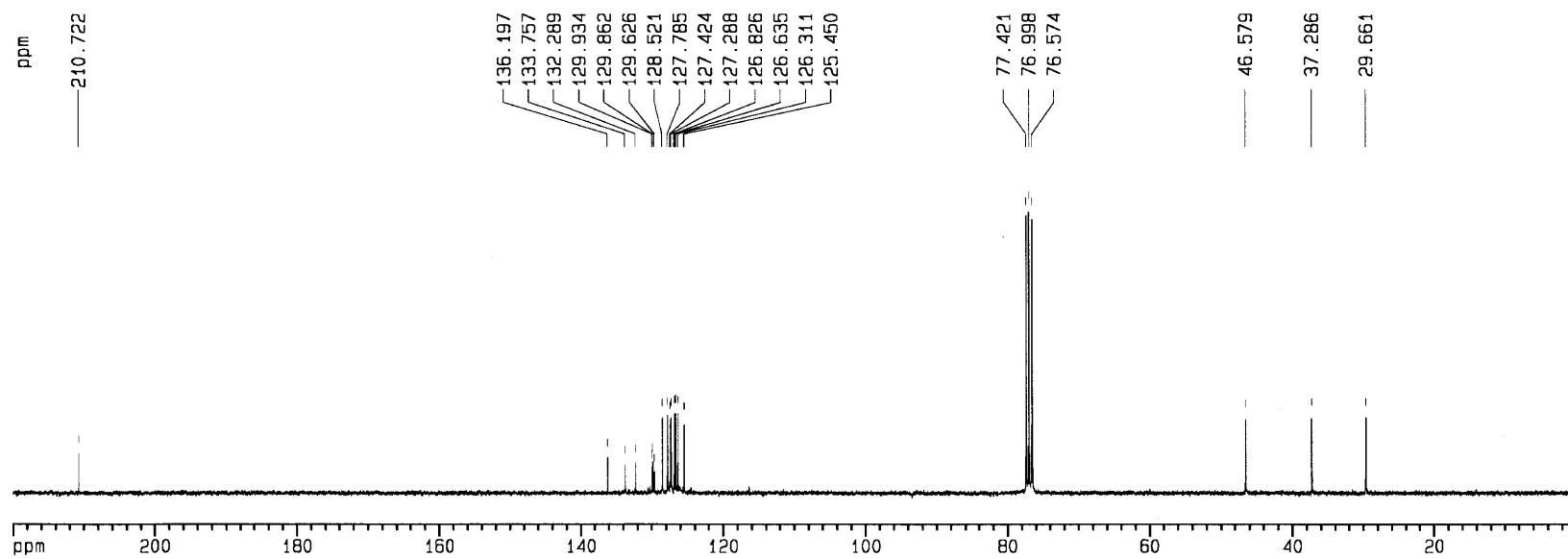
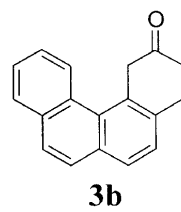


Figure 12



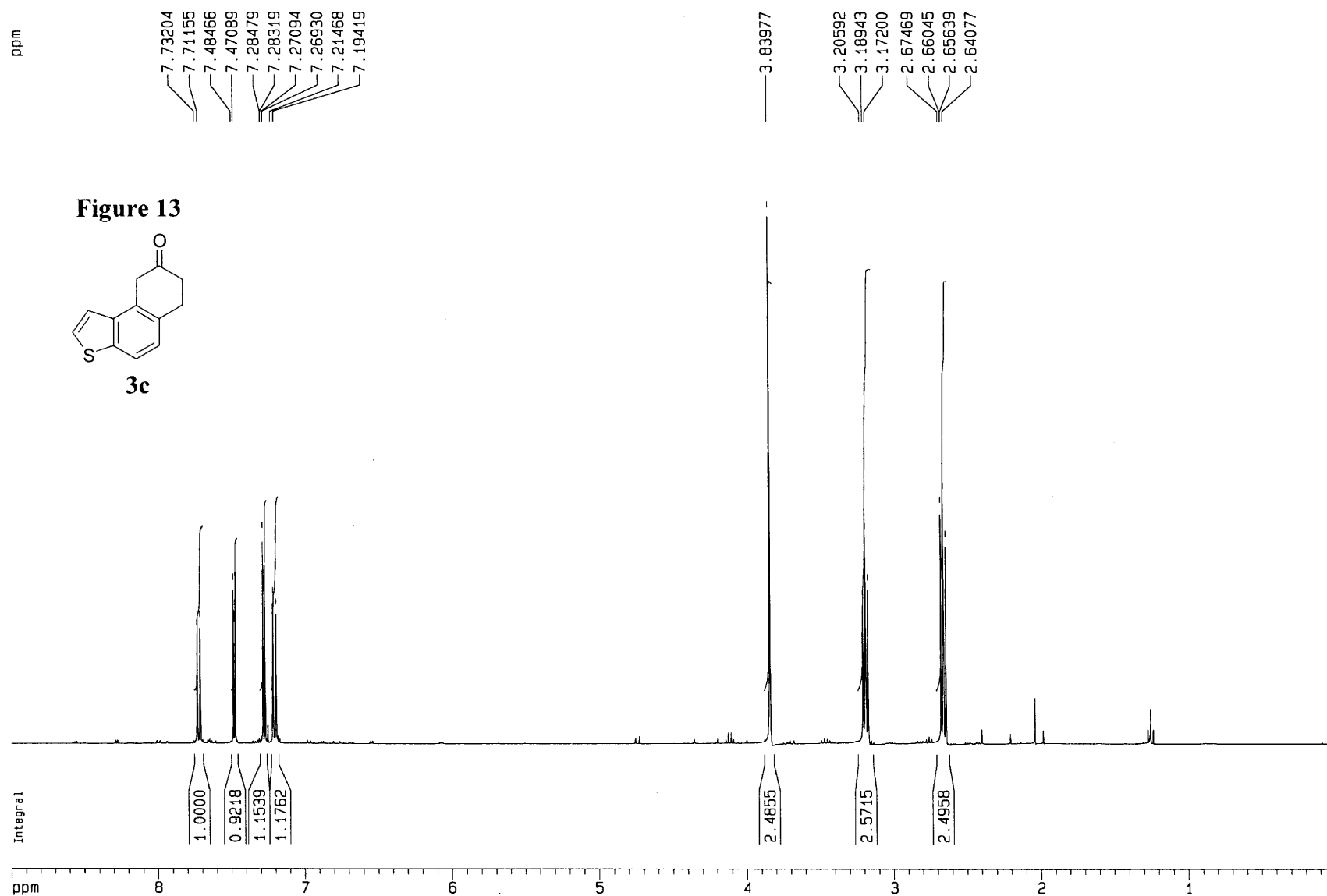


Figure 14

