

Synthesis of Azo Carbonates Monomers and Biocompatibility Study of Poly(Azo-Carbonate-Urethane)s.

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Supplementary Material

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1. NMR

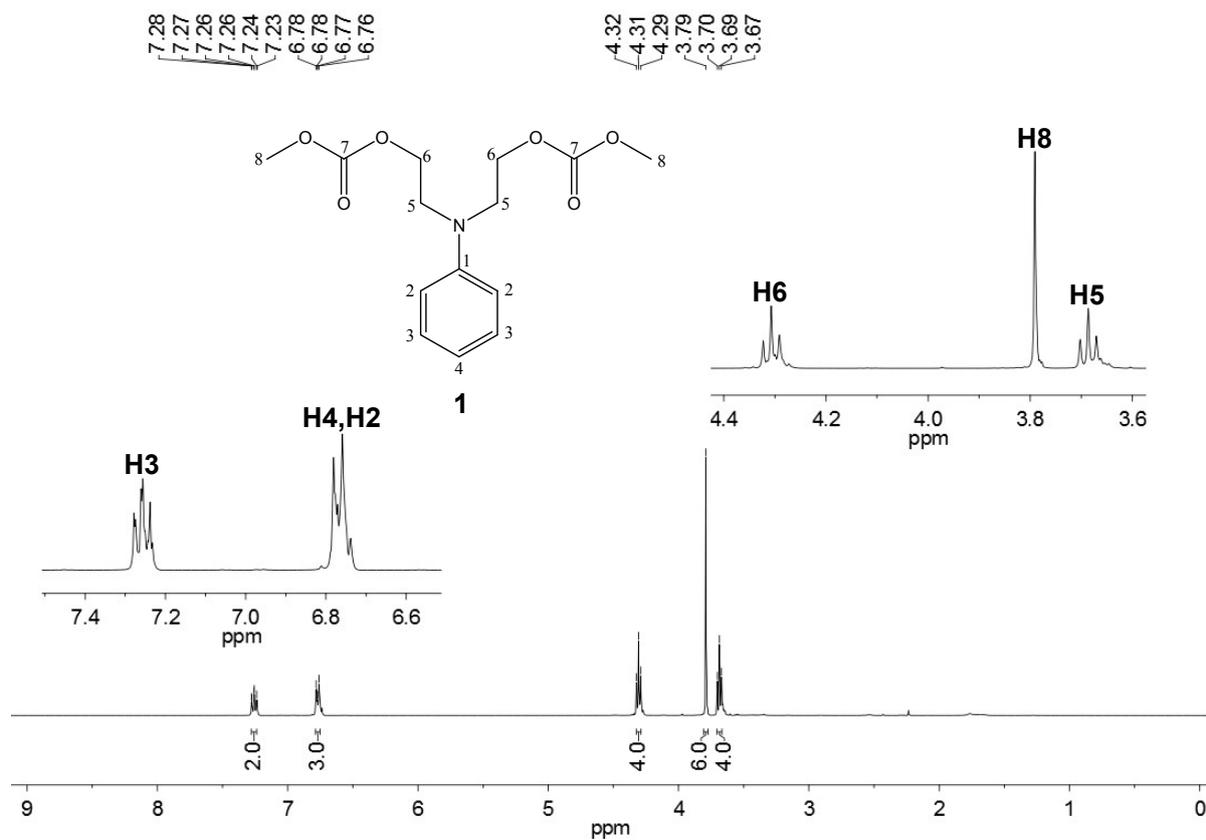
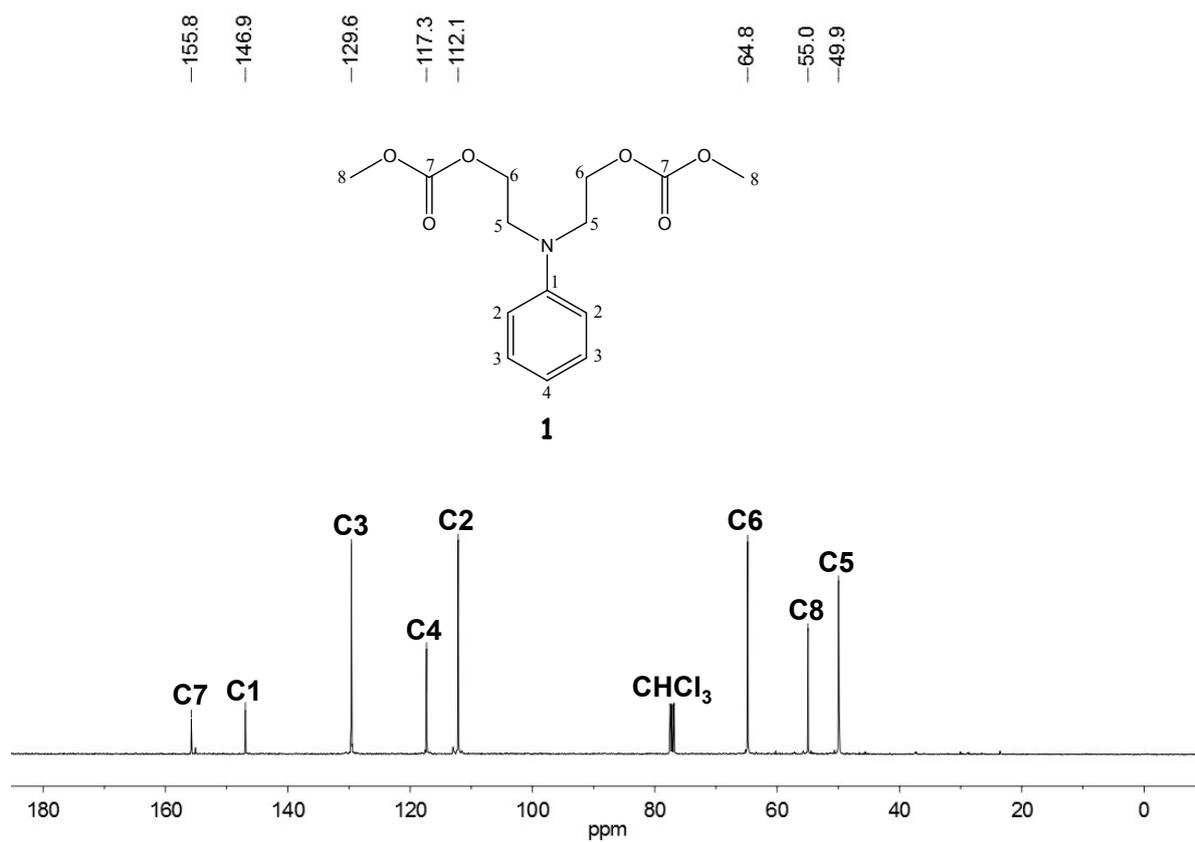
Figure 1. ^1H NMR spectrum of compound 1.Figure 2. ^{13}C NMR spectrum of compound 1.

Figure 3. ^1H - ^{13}C HSQC spectrum of compound 1.

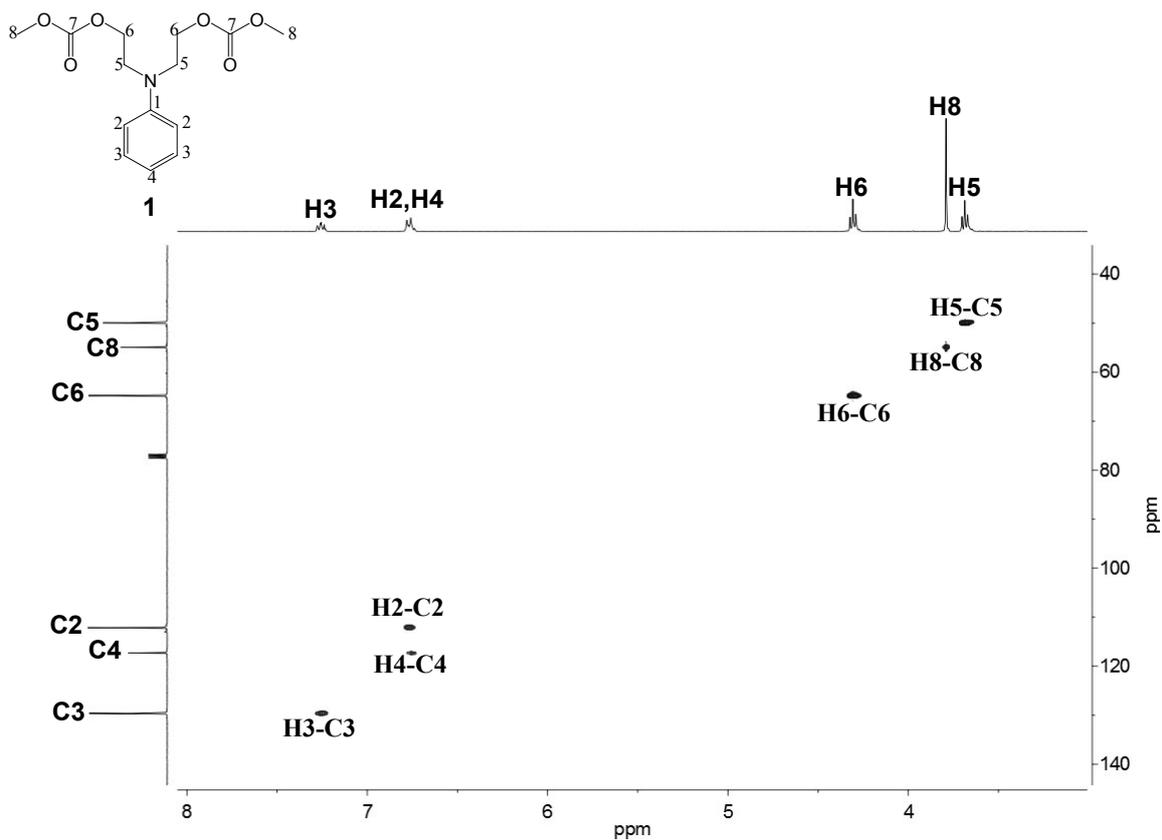


Figure 4. ^1H - ^{13}C HMBC spectrum of compound 1.

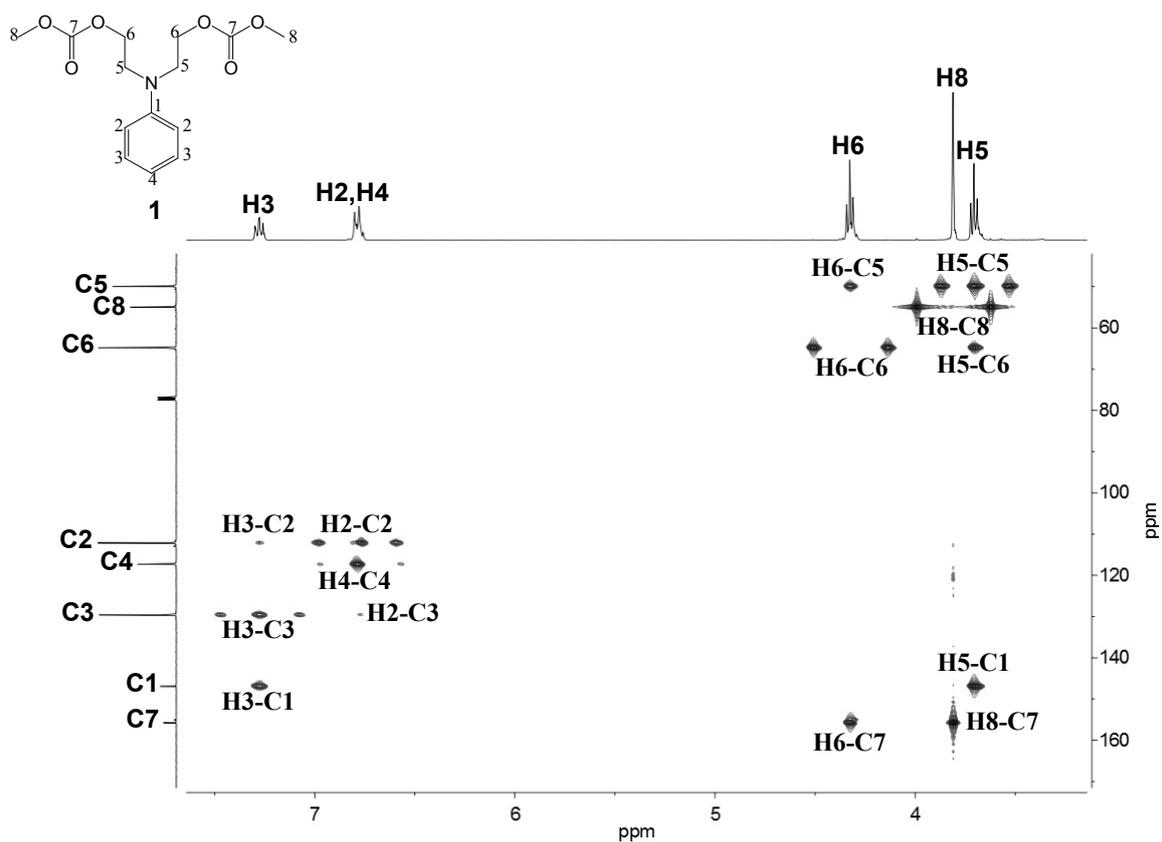


Figure 5. ^1H NMR spectrum of compound 2.

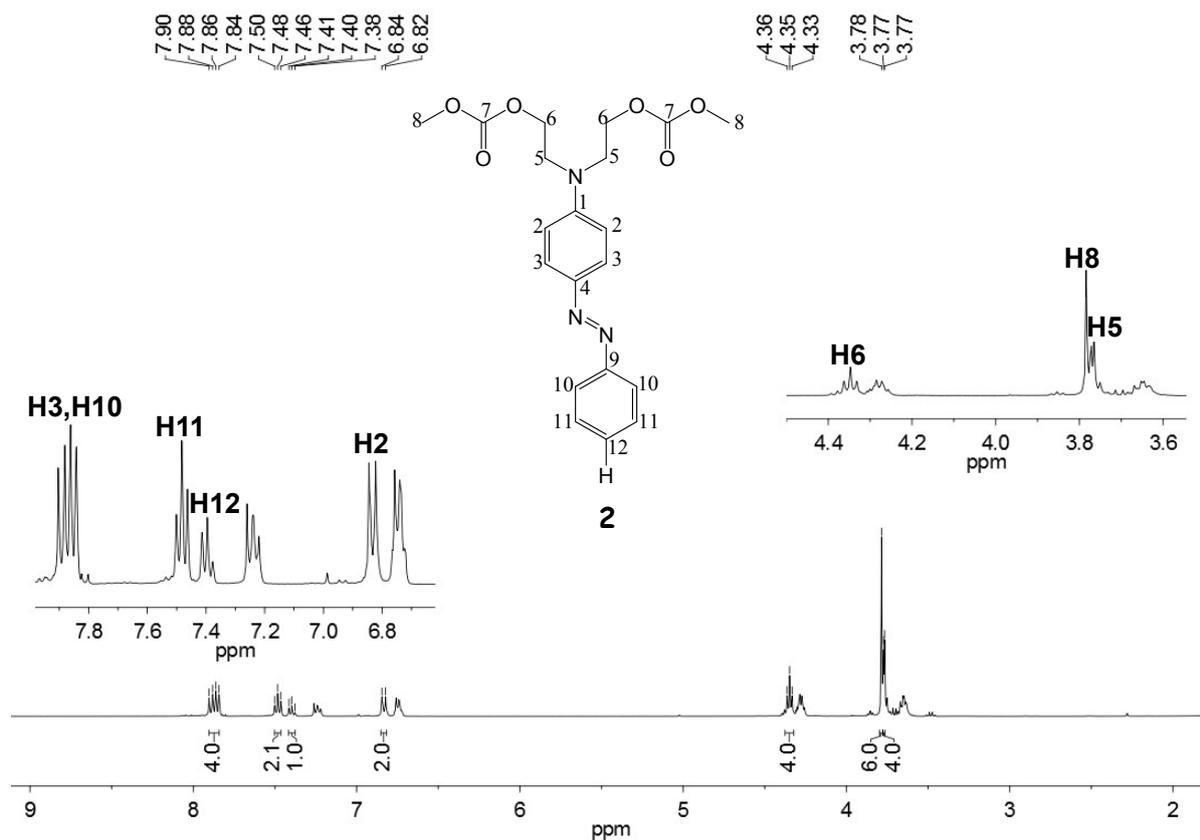


Figure 6. ^{13}C NMR spectrum of compound 2.

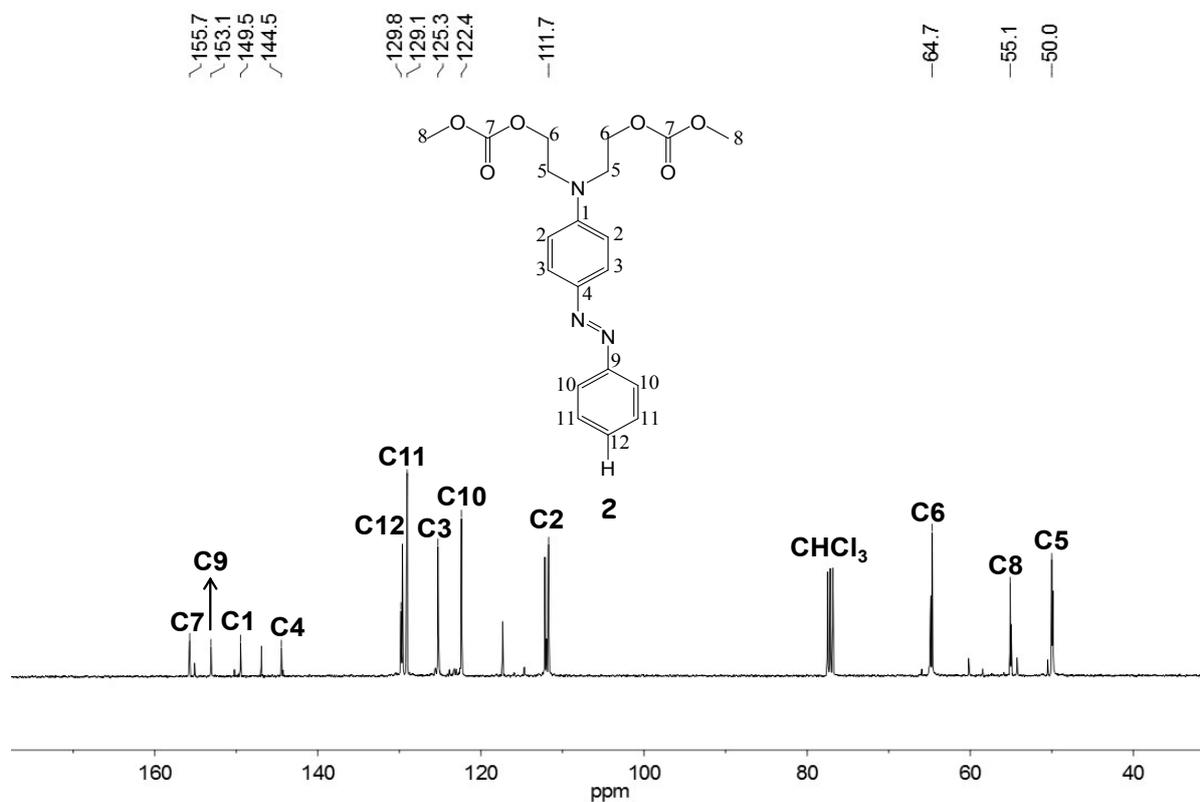


Figure 7. ^1H - ^{13}C HSQC spectrum of compound 2.

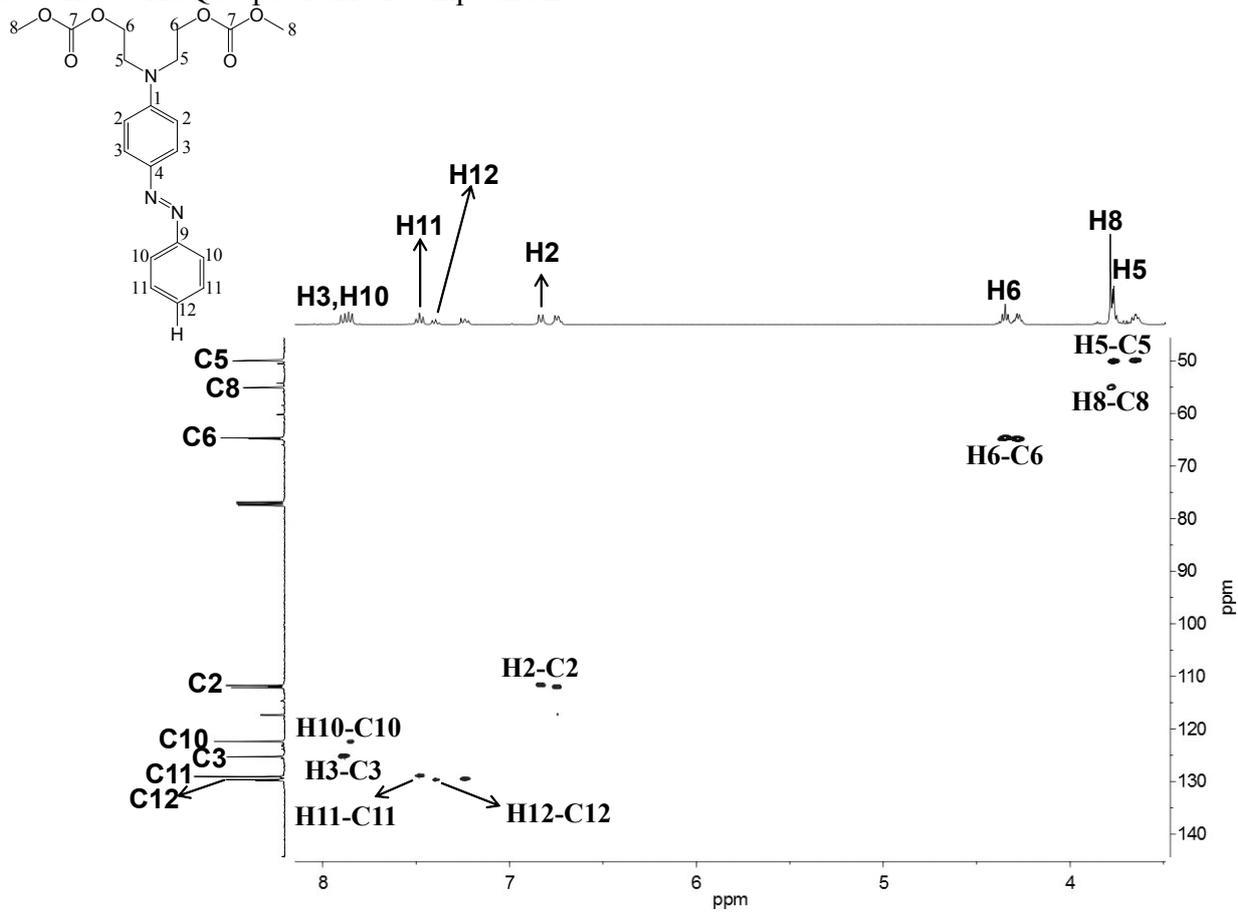


Figure 8. ^1H - ^{13}C HMBC spectrum of compound 2.

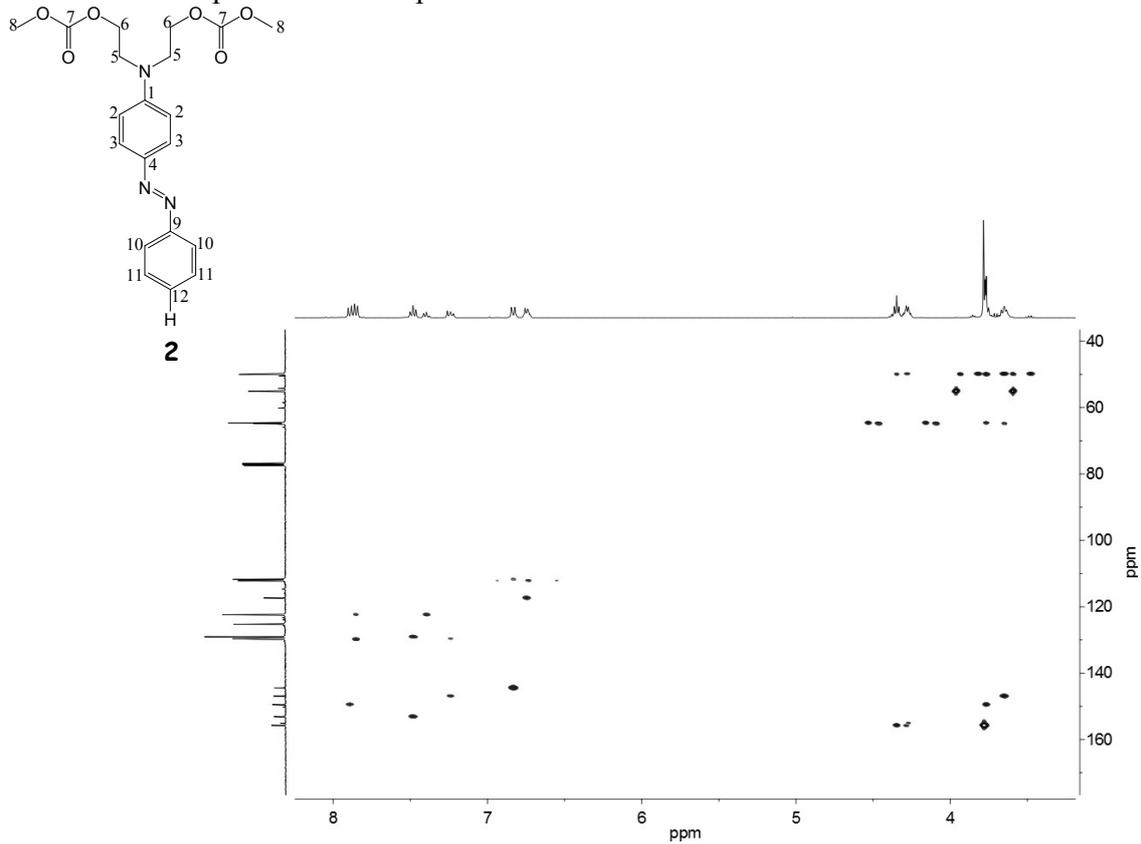


Figure 9. ^1H - ^{13}C HMBC spectrum of compound 2 (zoom of aliphatic region).

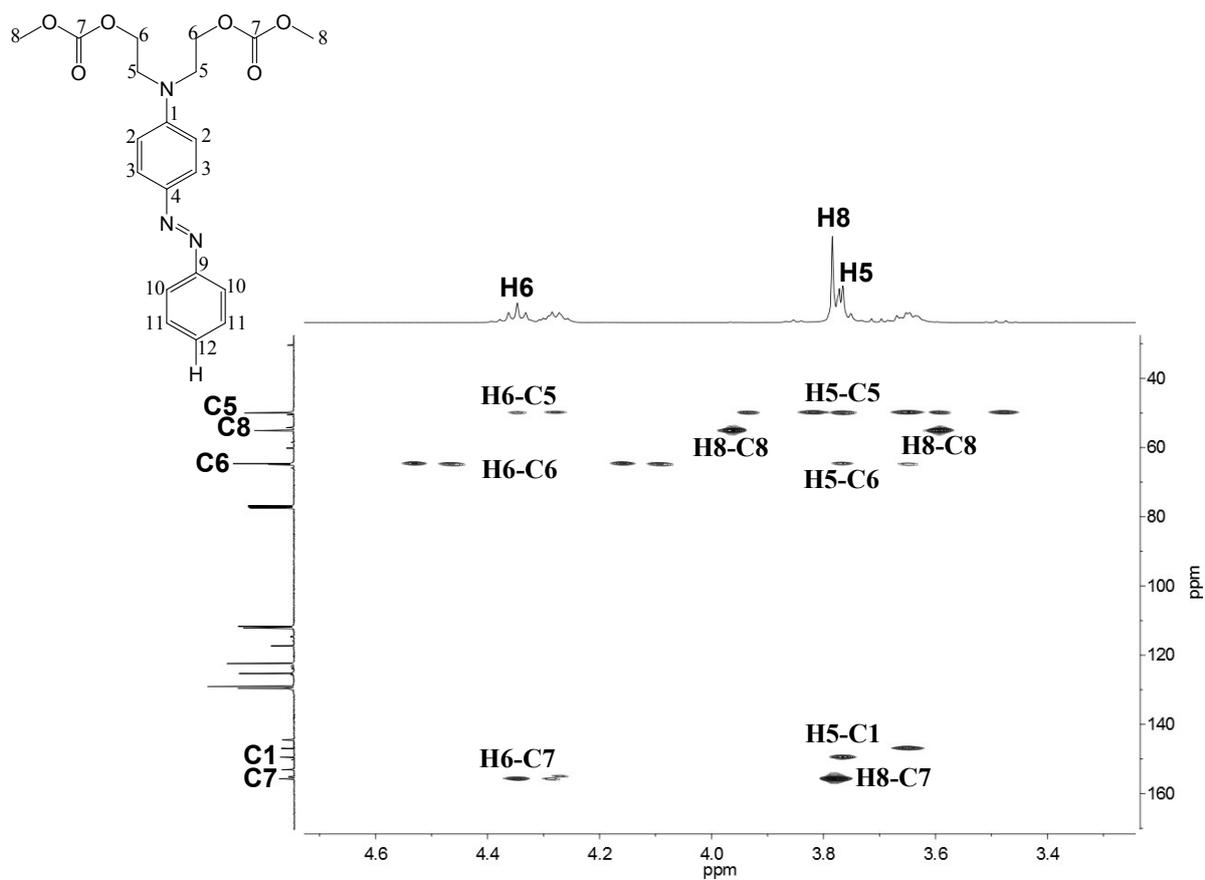


Figure 10. ^1H - ^{13}C HMBC spectrum of compound 2 (zoom of aromatic region).

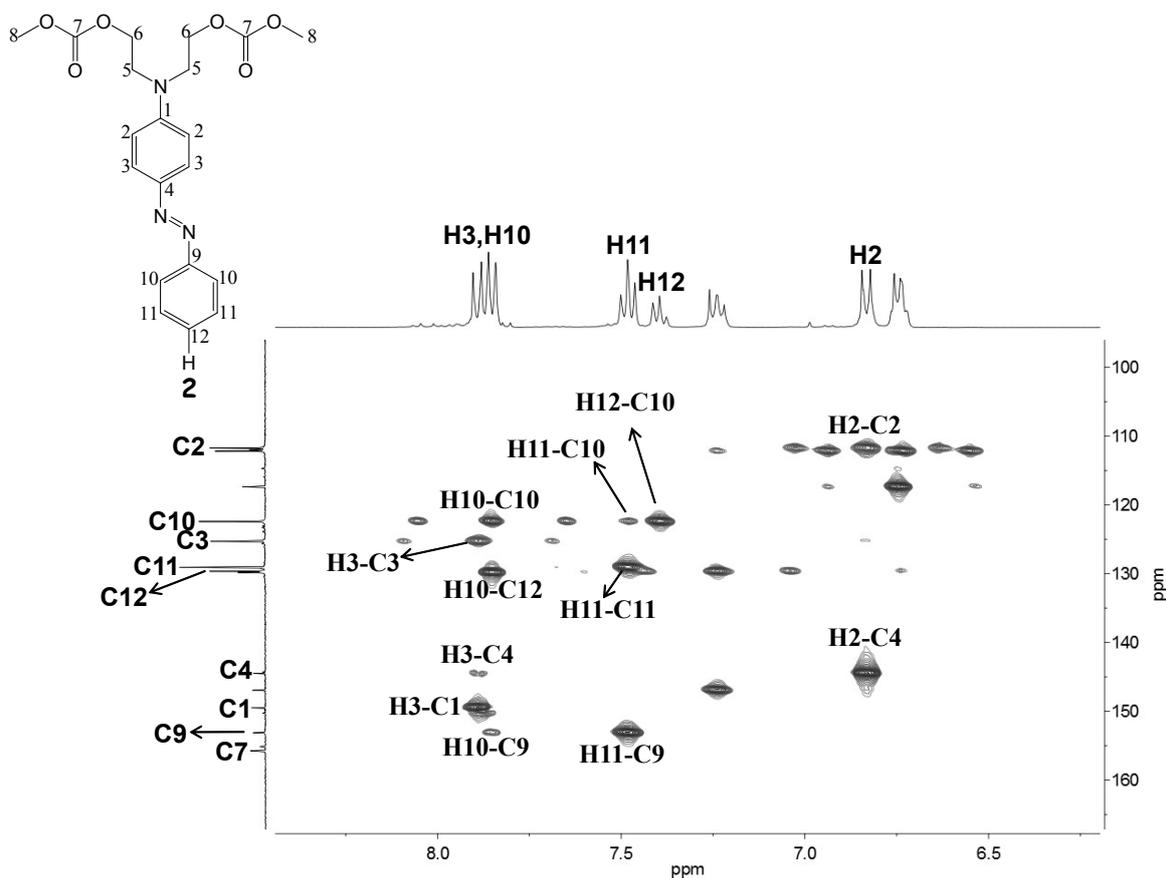


Figure 11. ^1H NMR spectrum of compound 3.

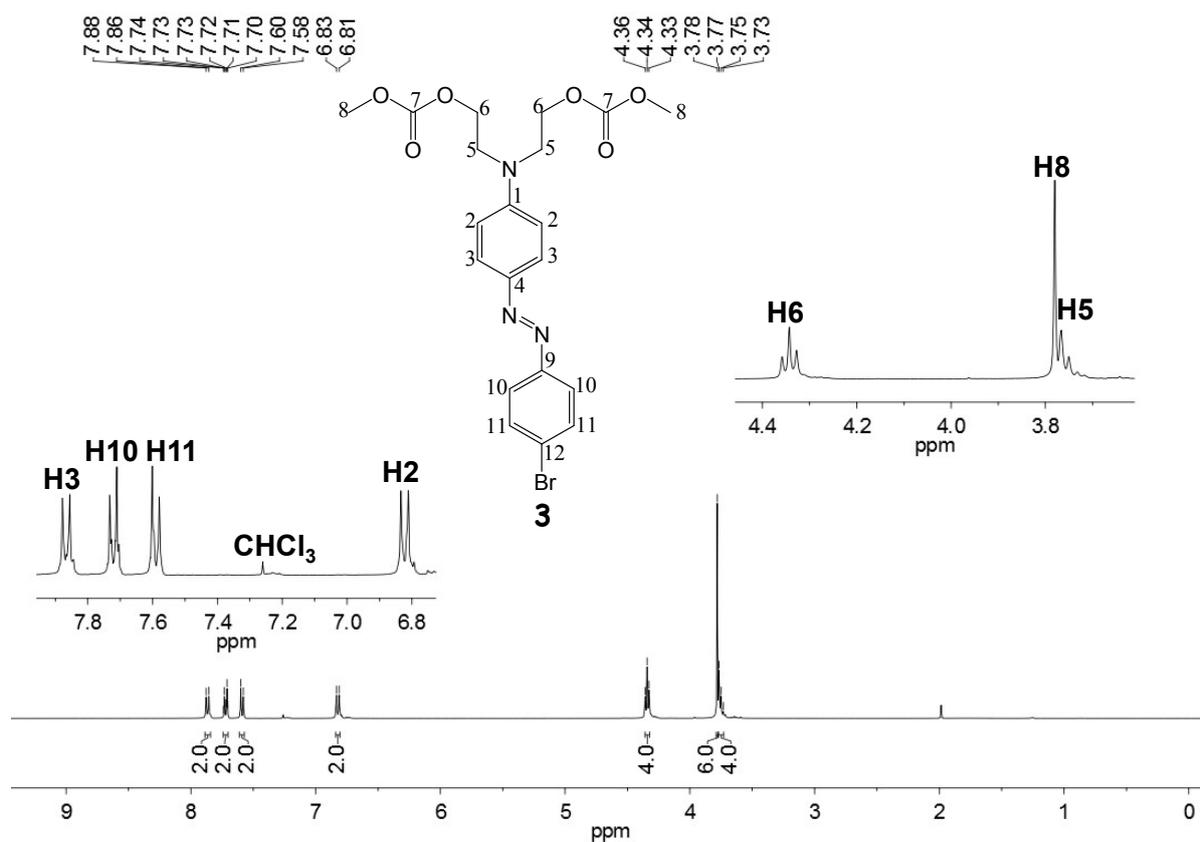


Figure 12. ^{13}C NMR spectrum of compound 3.

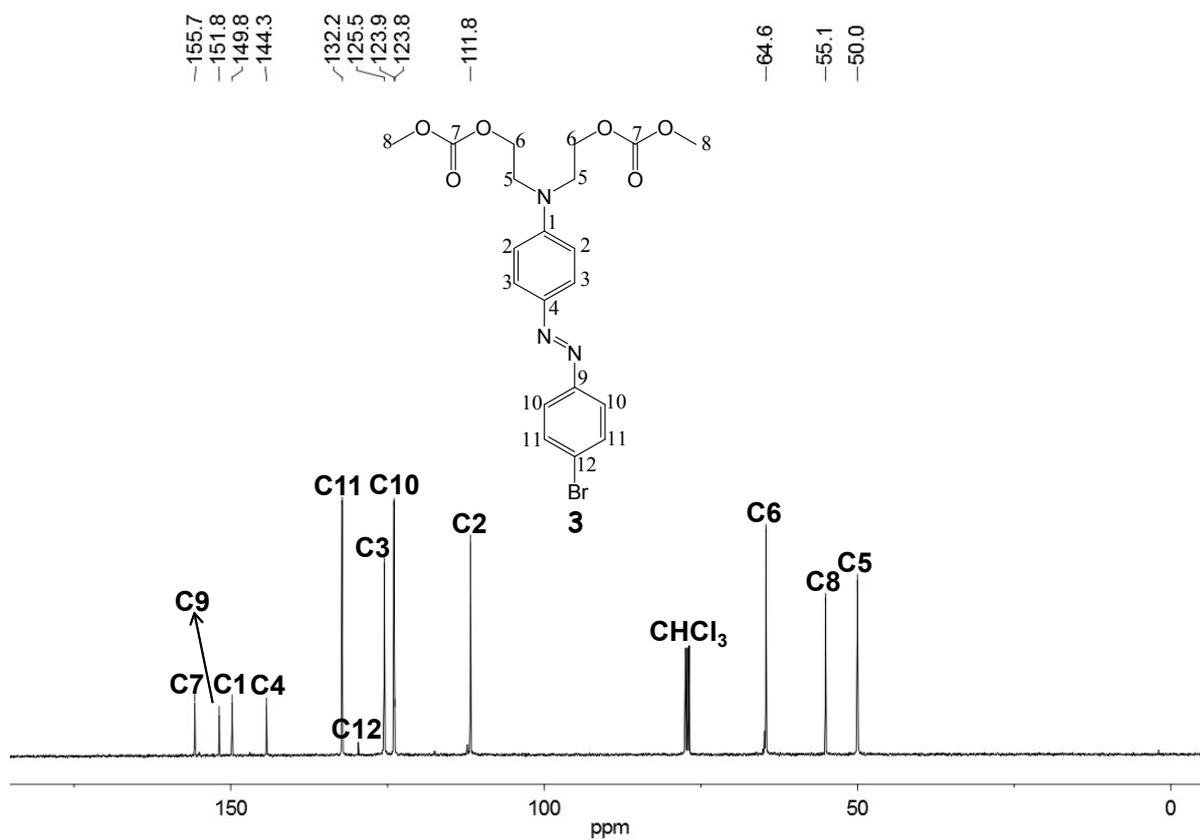


Figure 13. ^1H - ^{13}C HSQC spectrum of compound 3.

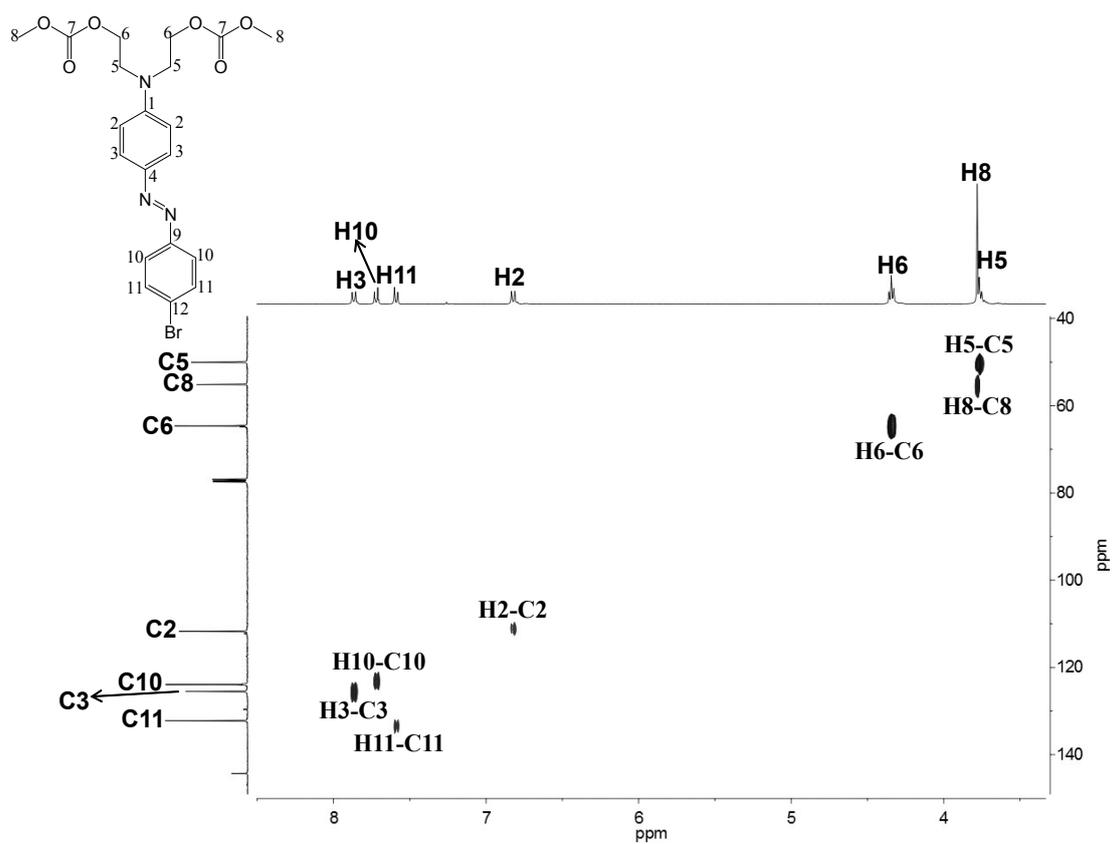


Figure 14. ^1H - ^{13}C HMBC spectrum of compound 3.

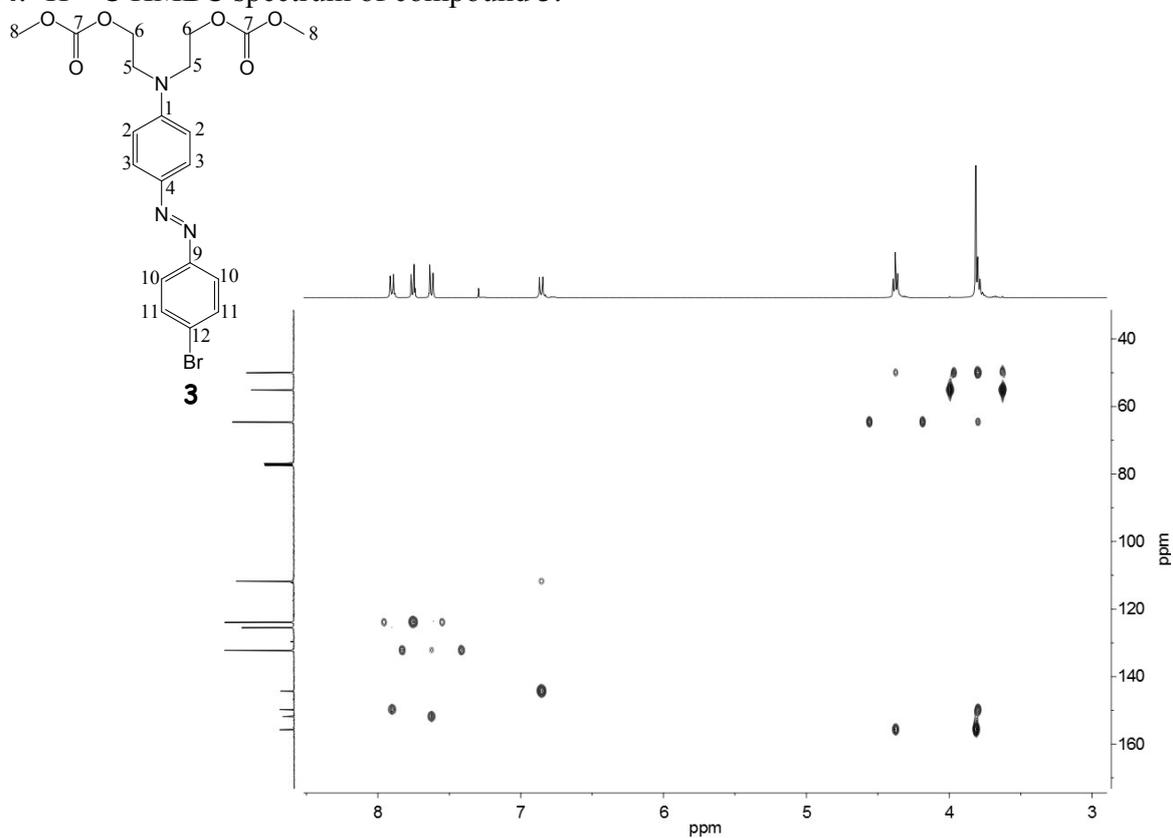


Figure 15. ^1H - ^{13}C HMBC spectrum of compound 3 (zoom of aliphatic region).

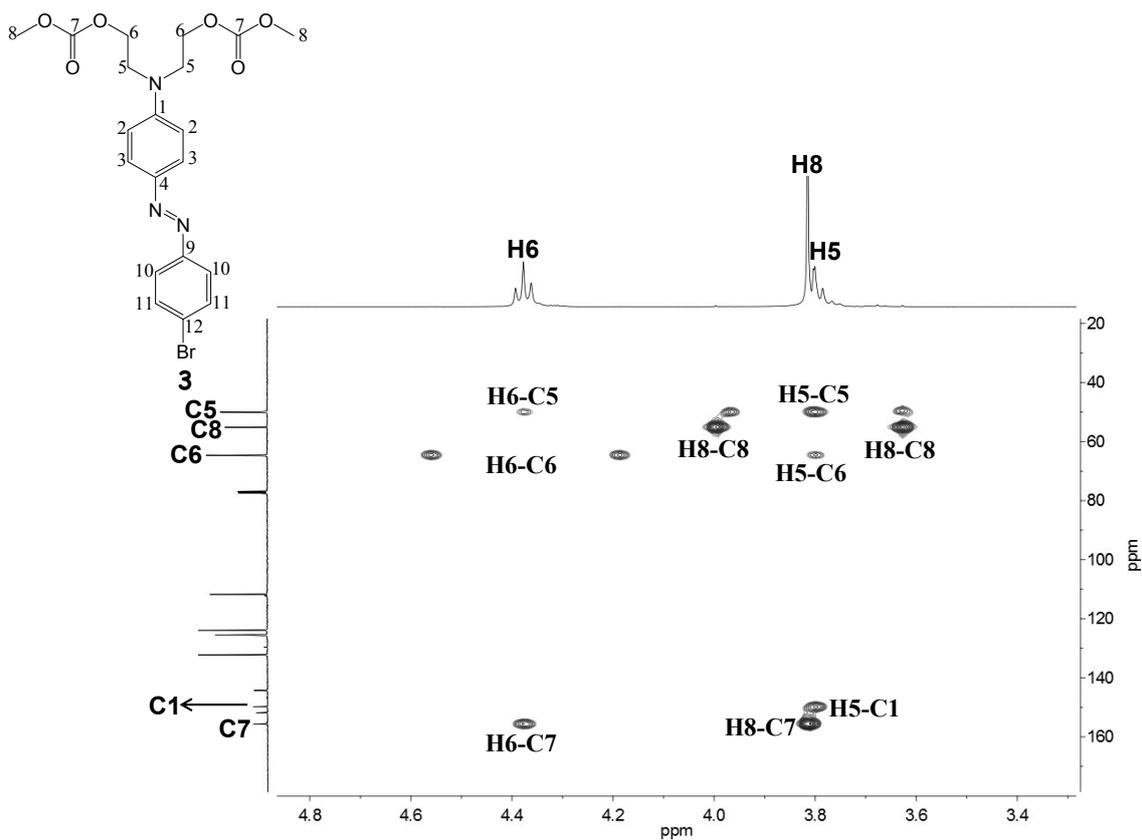


Figure 16. ^1H - ^{13}C HMBC spectrum of compound 3 (zoom of aromatic region).

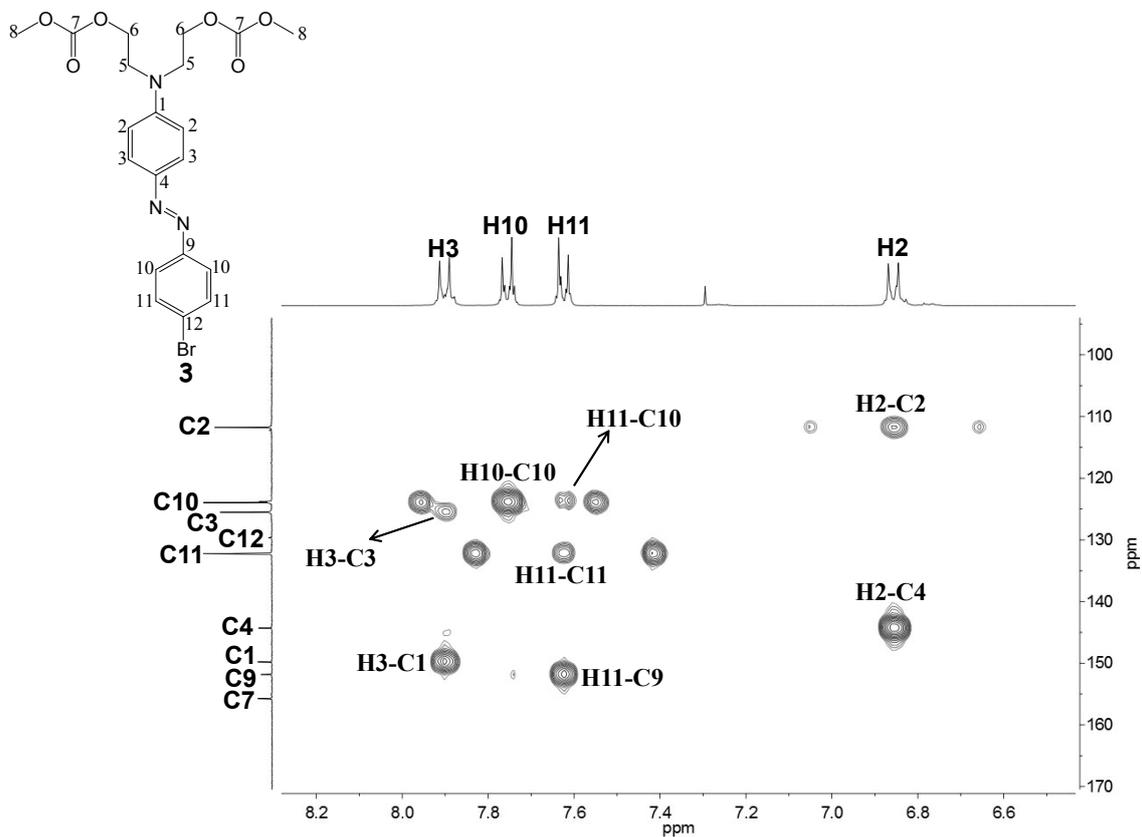


Figure 17. ^1H NMR spectrum of compound 4.

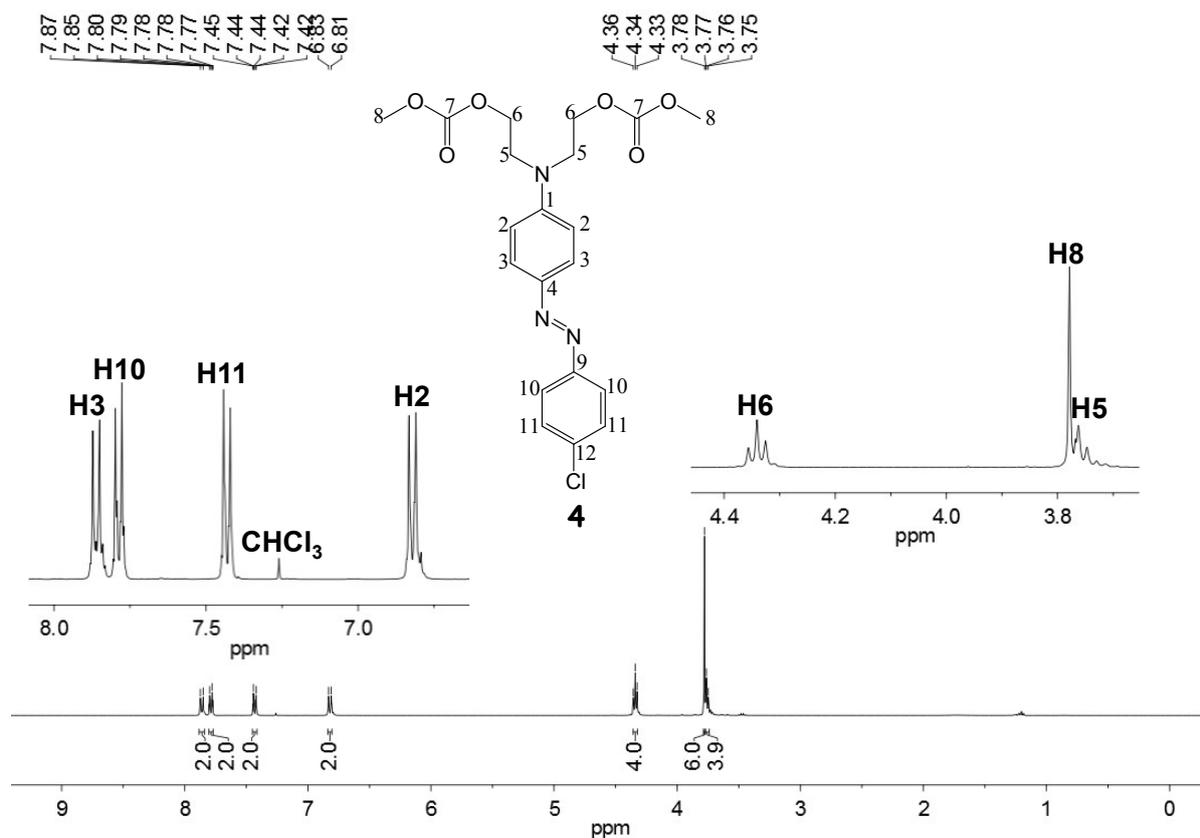


Figure 18. ^{13}C NMR spectrum of compound 4.

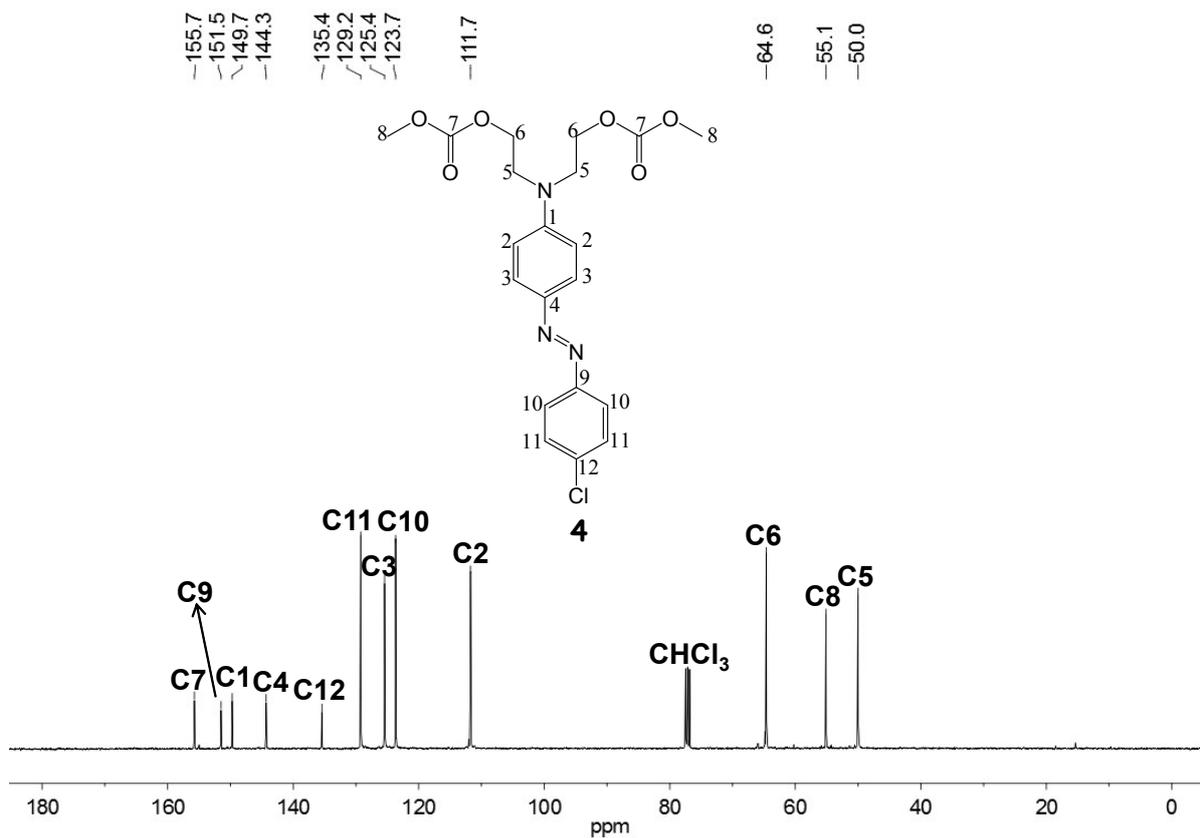


Figure 19. ^1H - ^{13}C HSQC spectrum of compound 4.

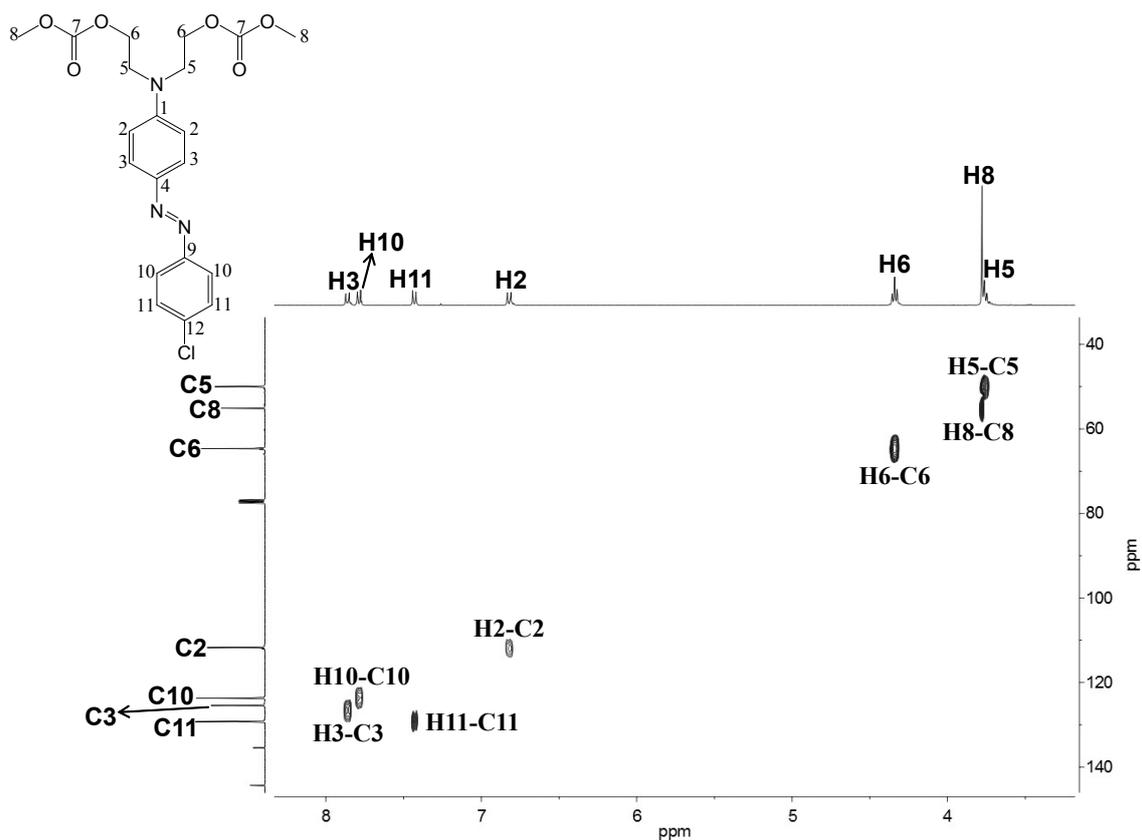


Figure 20. ^1H - ^{13}C HMBC spectrum of compound 4.

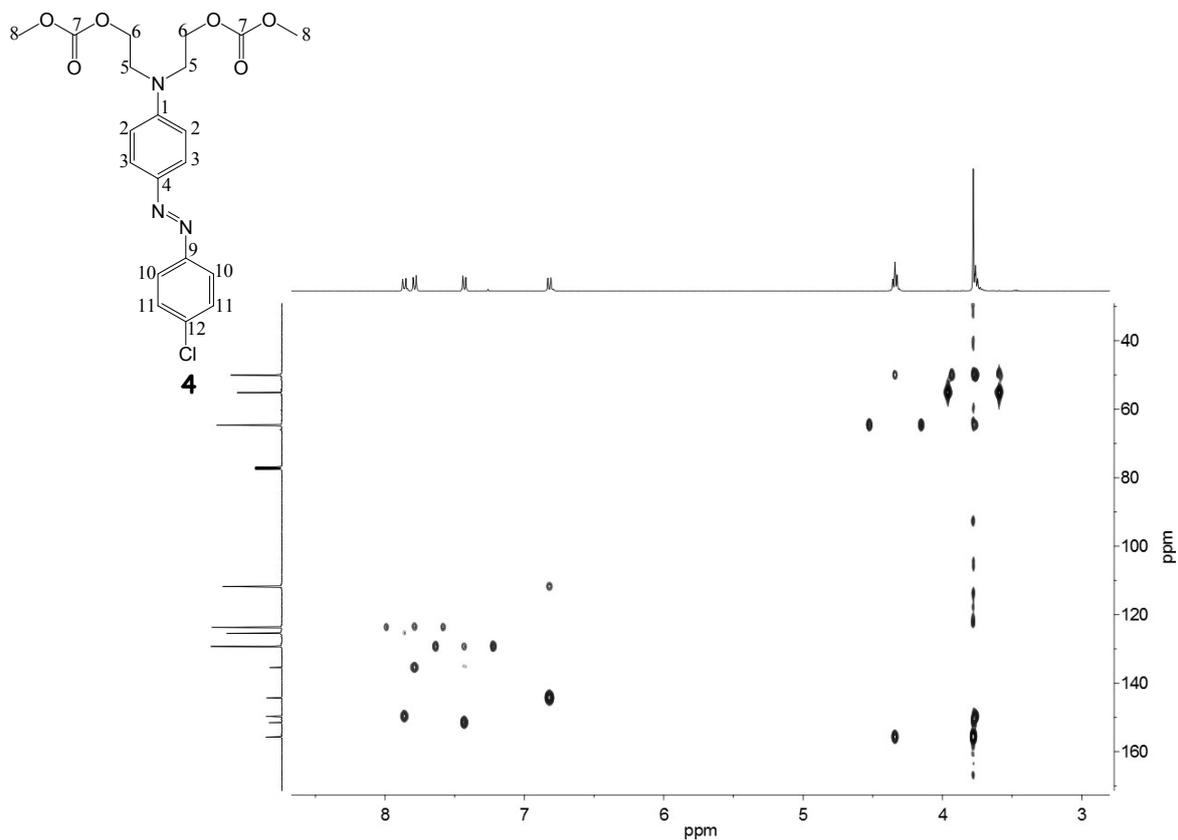


Figure 21. ^1H - ^{13}C HMBC spectrum of compound 4 (zoom of aliphatic region).

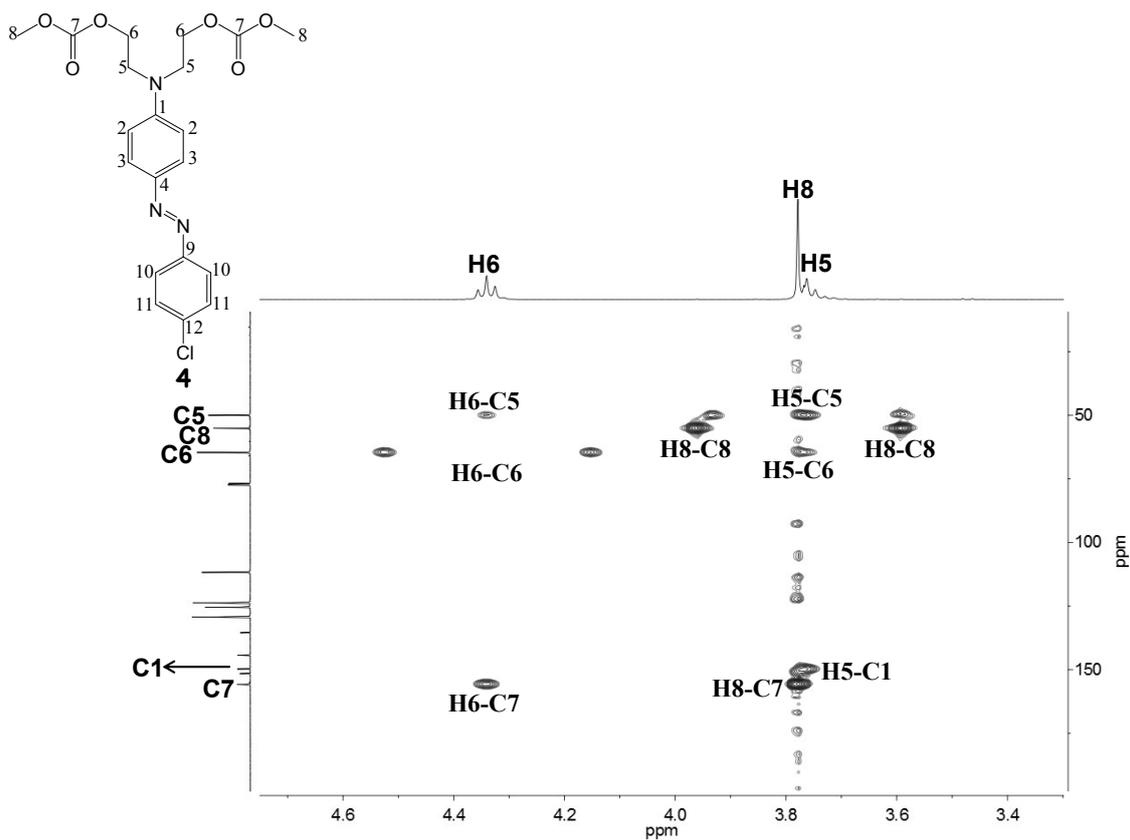


Figure 22. ^1H - ^{13}C HMBC spectrum of compound 4 (zoom of aromatic region).

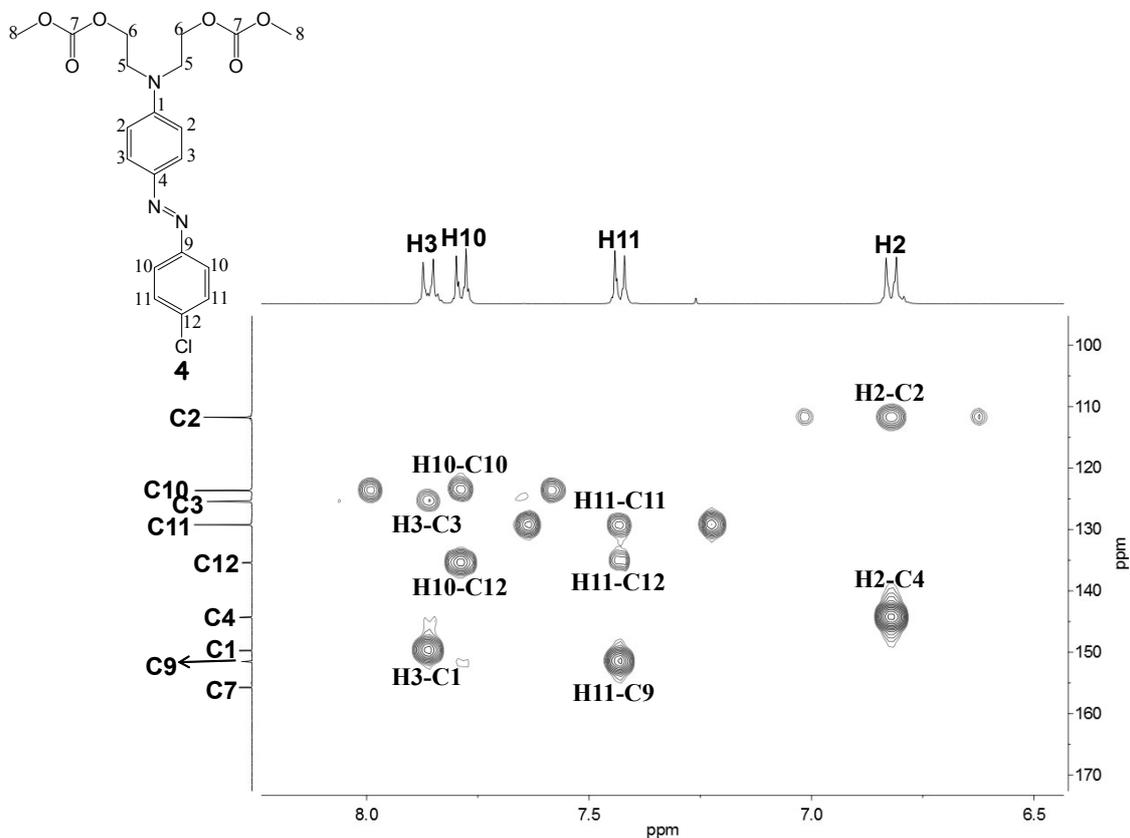


Figure 23. ^1H NMR spectrum of compound 5.

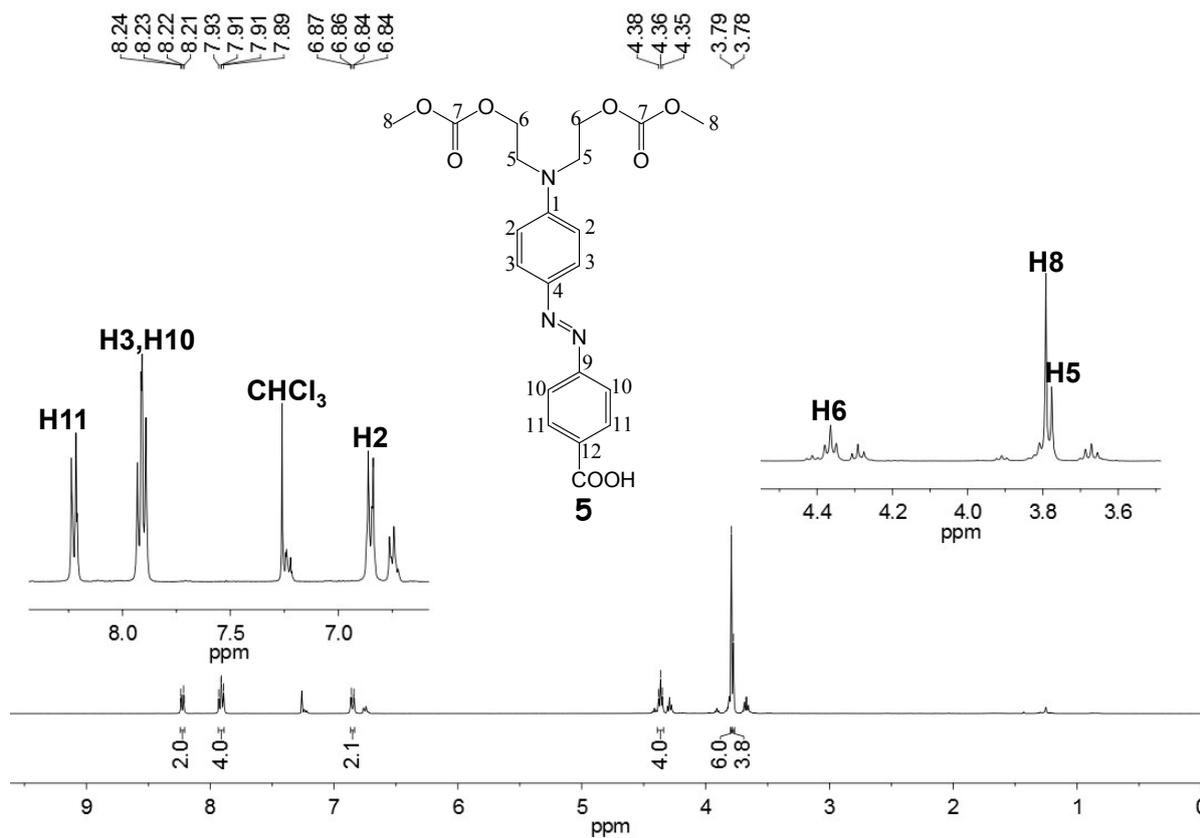


Figure 24. ^{13}C NMR spectrum of compound 5.

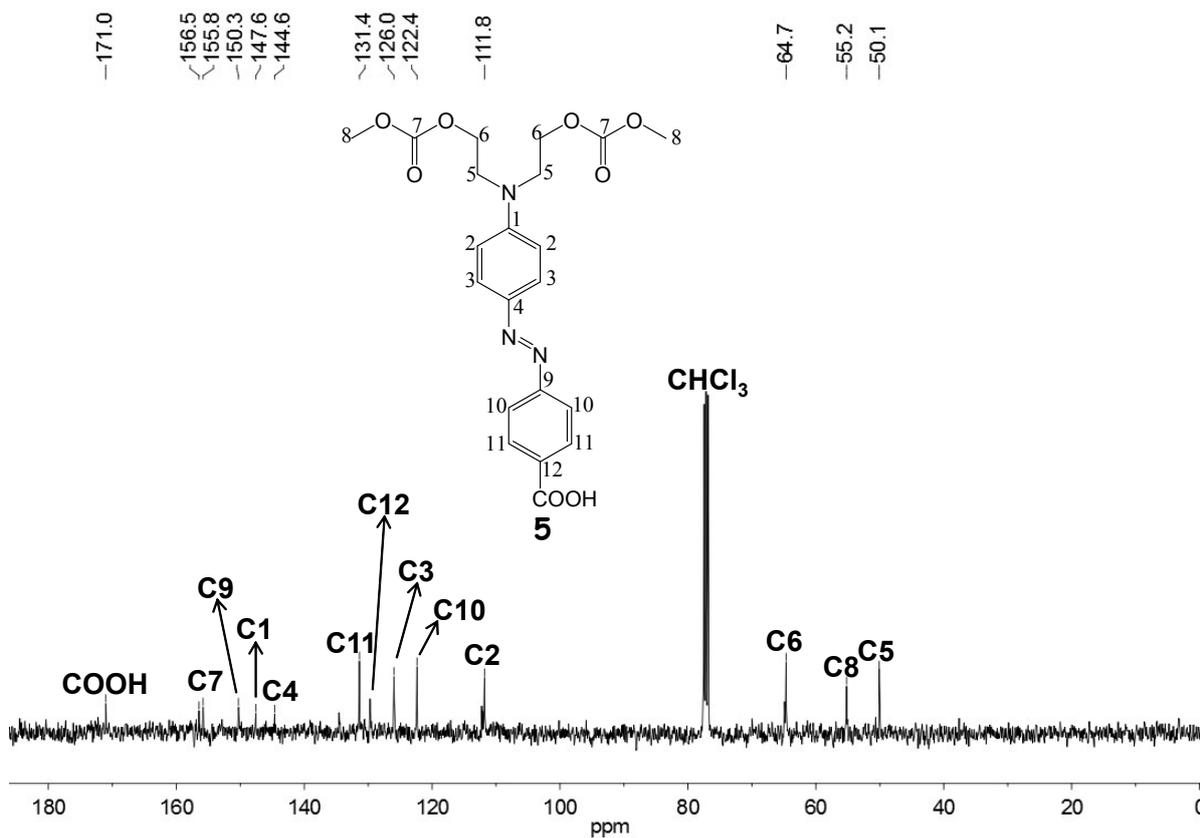


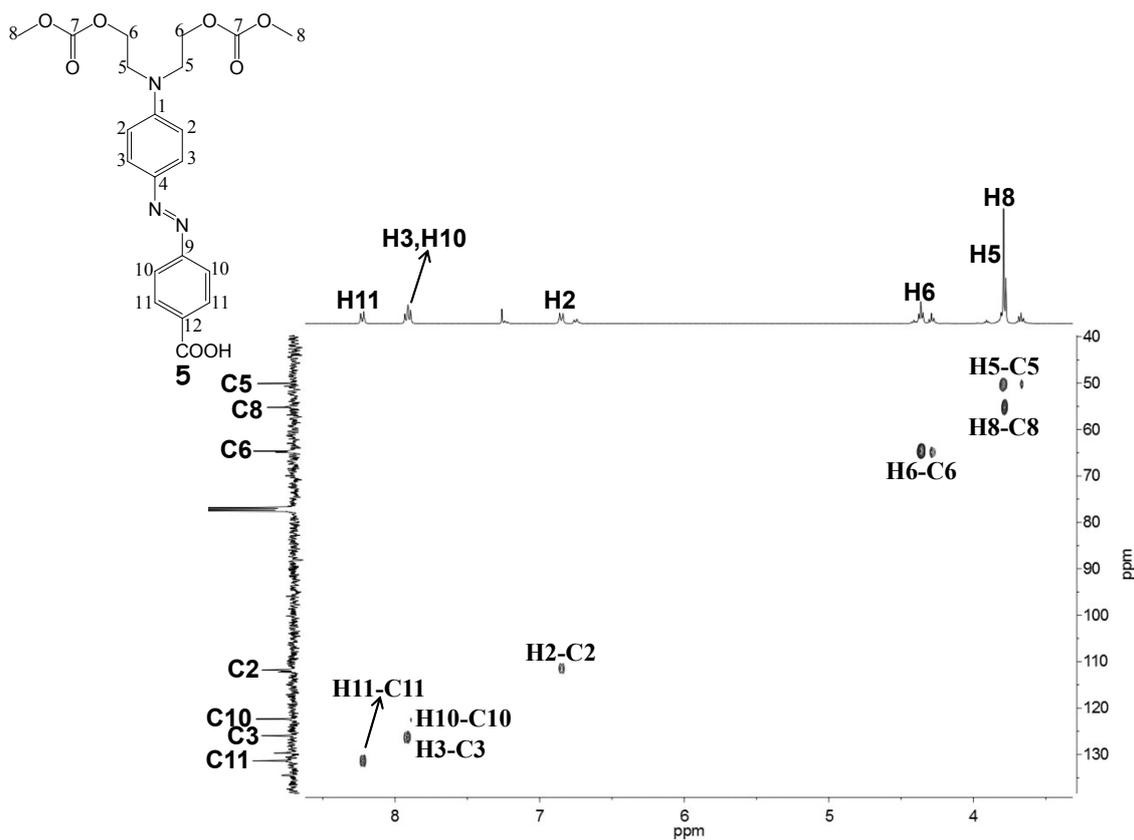
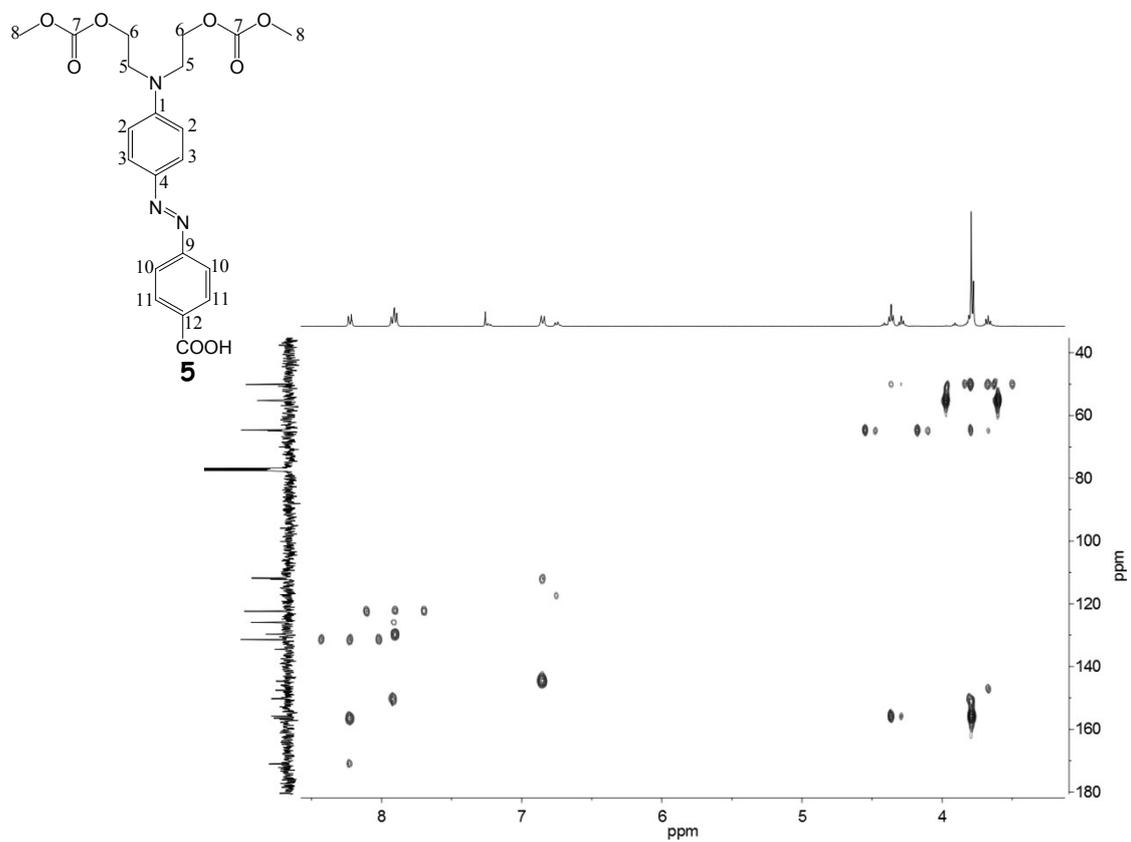
Figure 25. ^1H - ^{13}C HSQC spectrum of compound 5.**Figure 26.** ^1H - ^{13}C HMBC spectrum of compound 5.

Figure 27. ^1H - ^{13}C HMBC spectrum of compound 5 (zoom of aliphatic region).

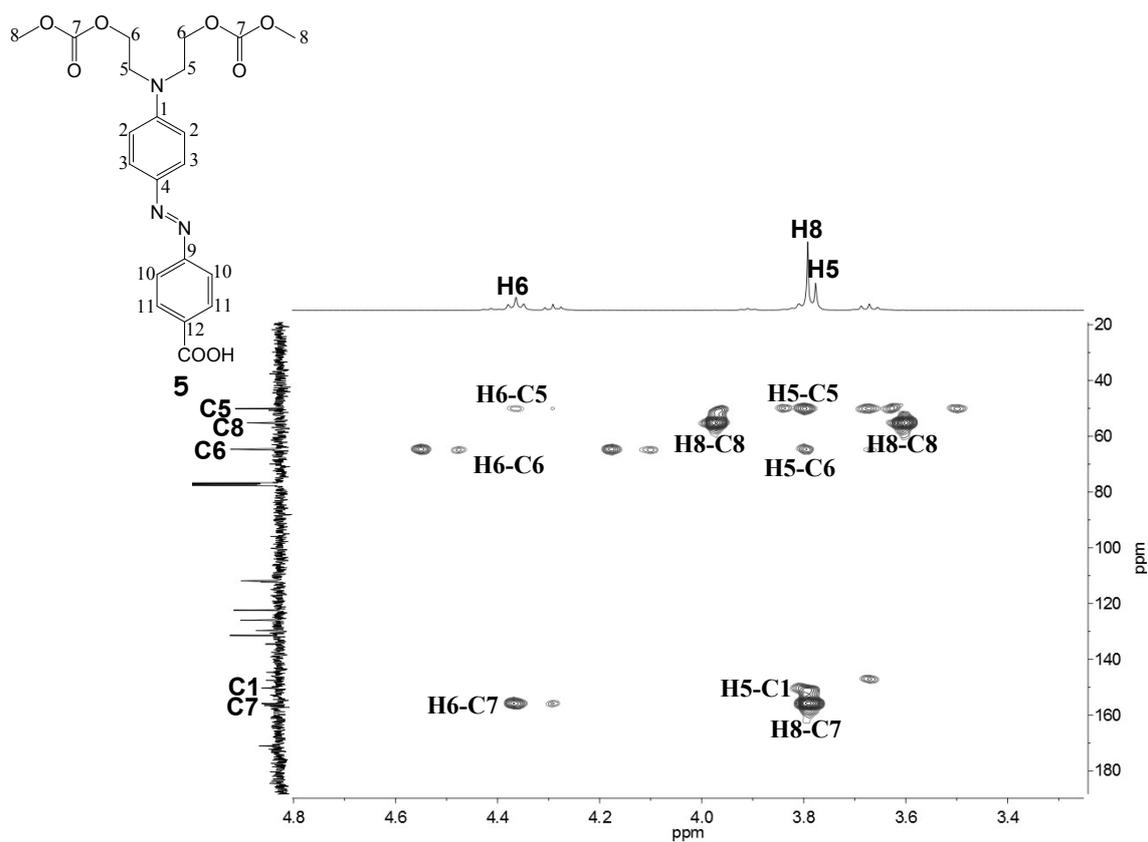


Figure 28. ^1H - ^{13}C HMBC spectrum of compound 5 (zoom of aromatic region).

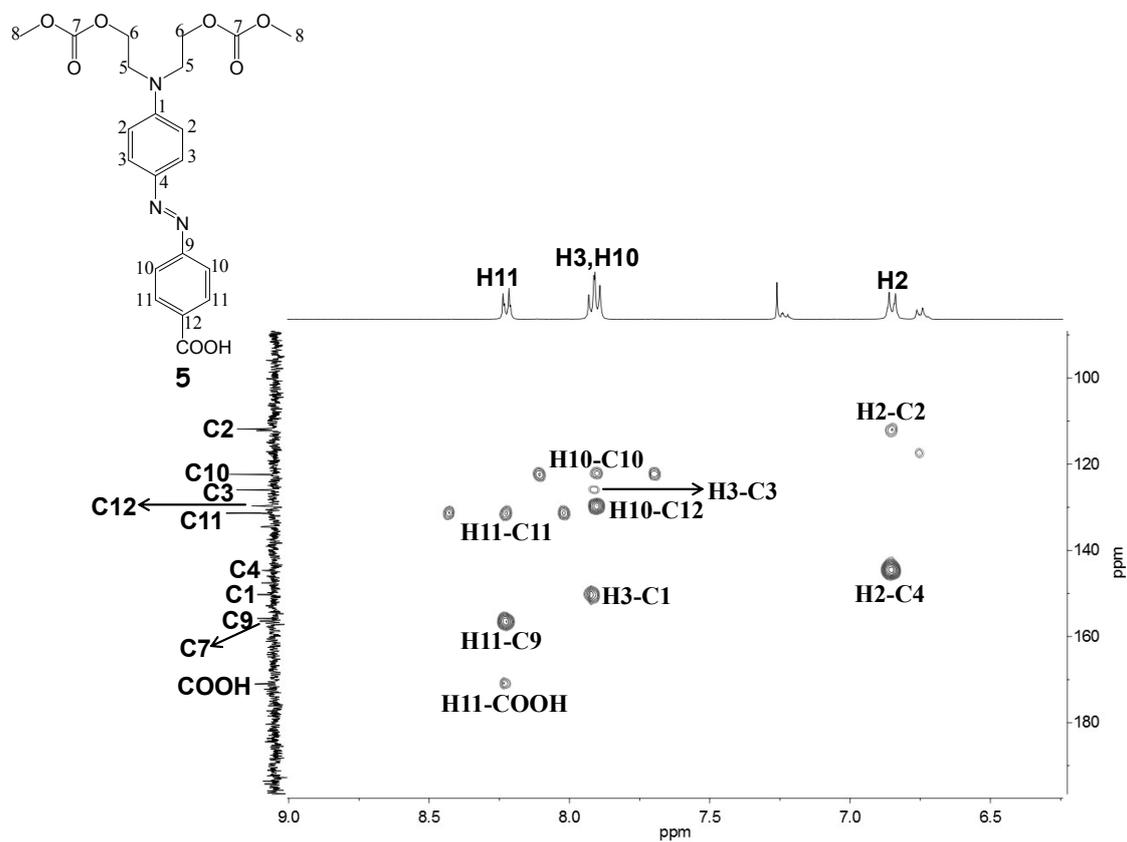


Figure 29. ^1H NMR spectrum of compound 6.

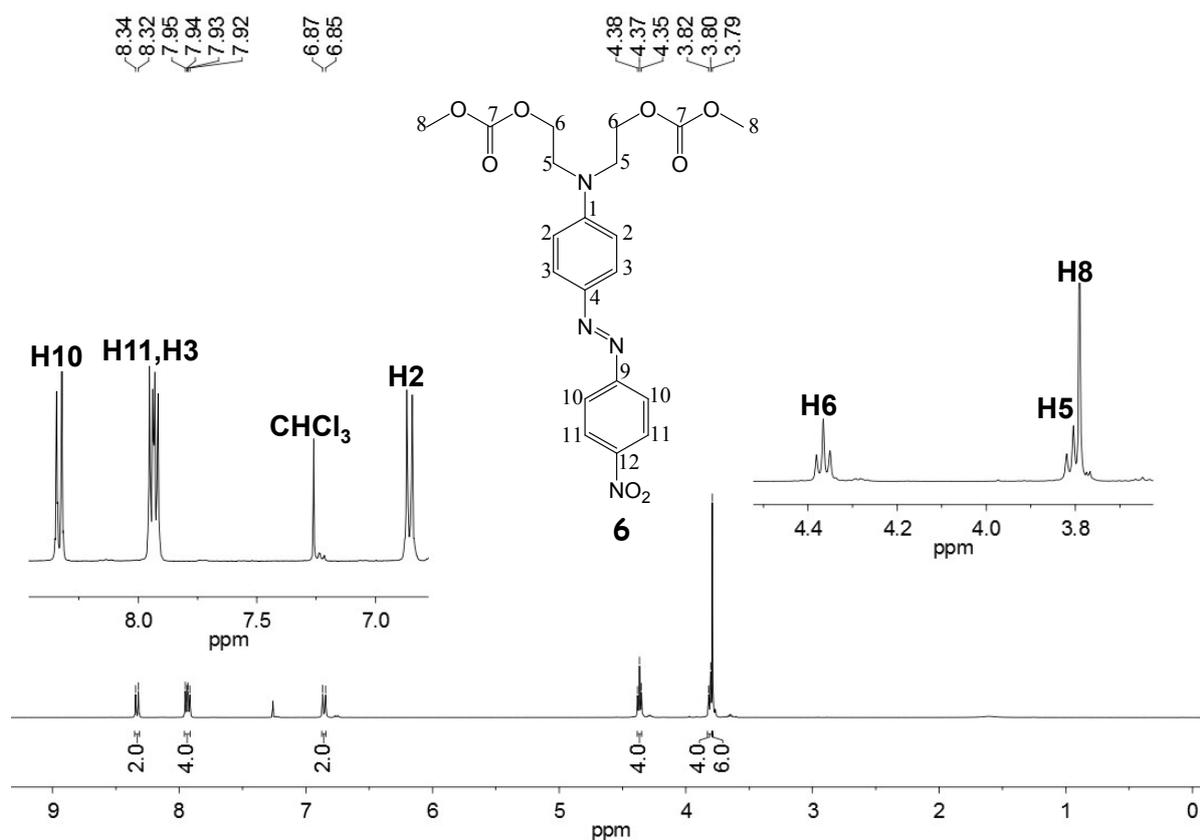


Figure 30. ^{13}C NMR spectrum of compound 6.

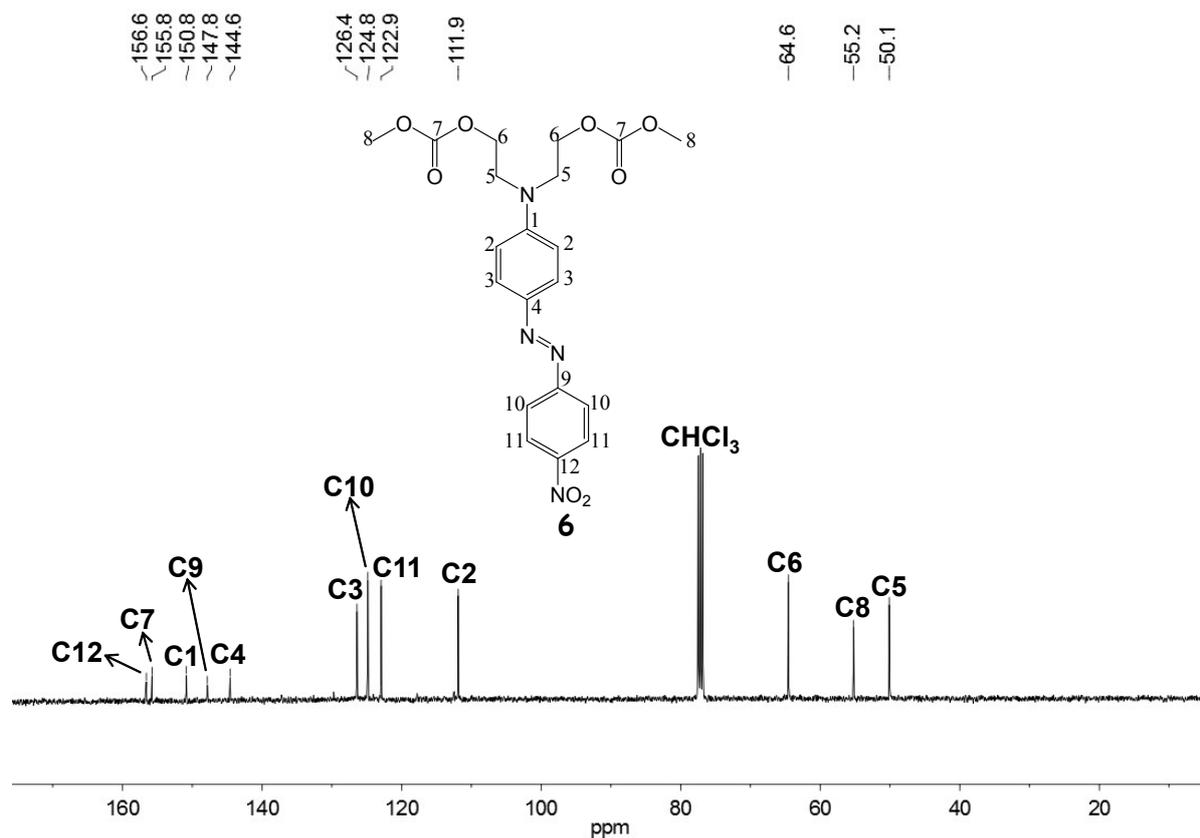


Figure 31. ^1H - ^{13}C HSQC spectrum of compound 6.

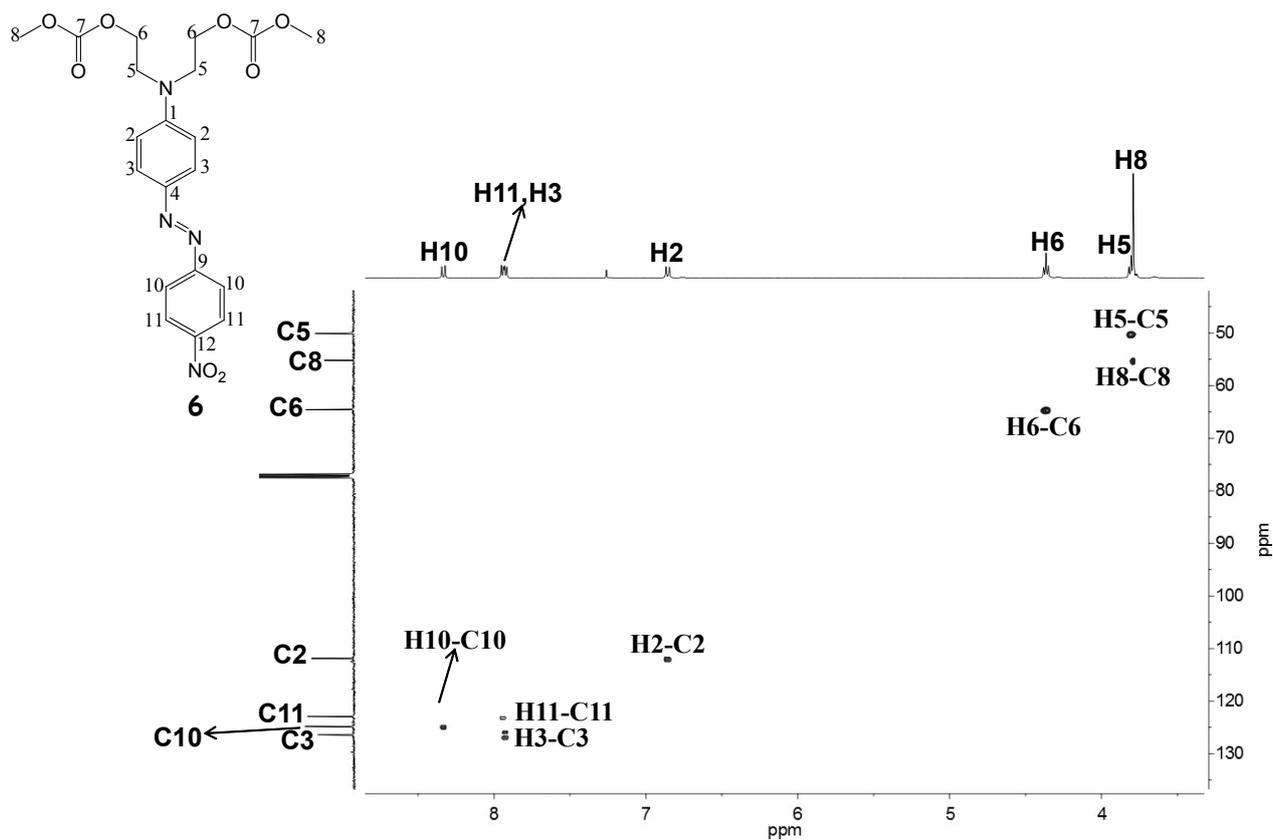


Figure 32. ^1H - ^{13}C HMBC spectrum of compound 6.

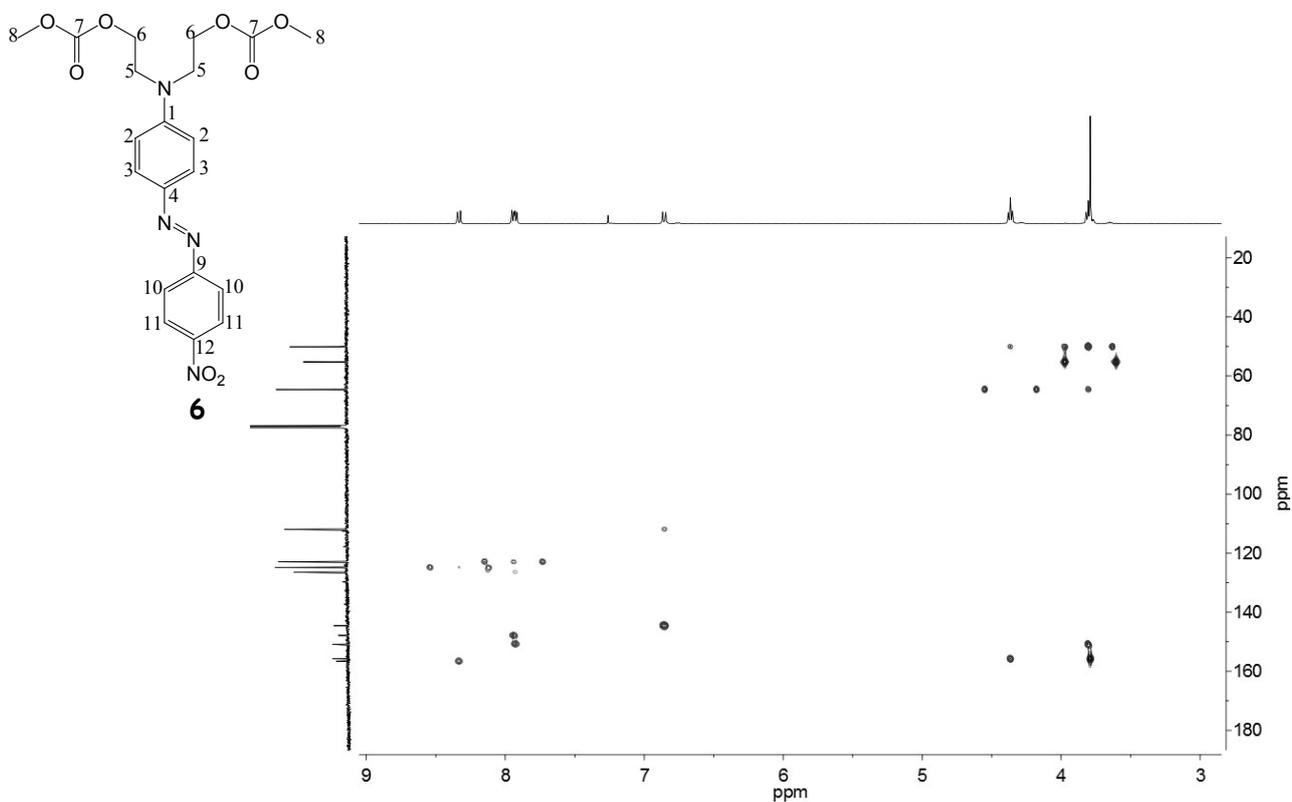


Figure 33. ^1H - ^{13}C HMBC spectrum of compound 6 (zoom of aliphatic region).

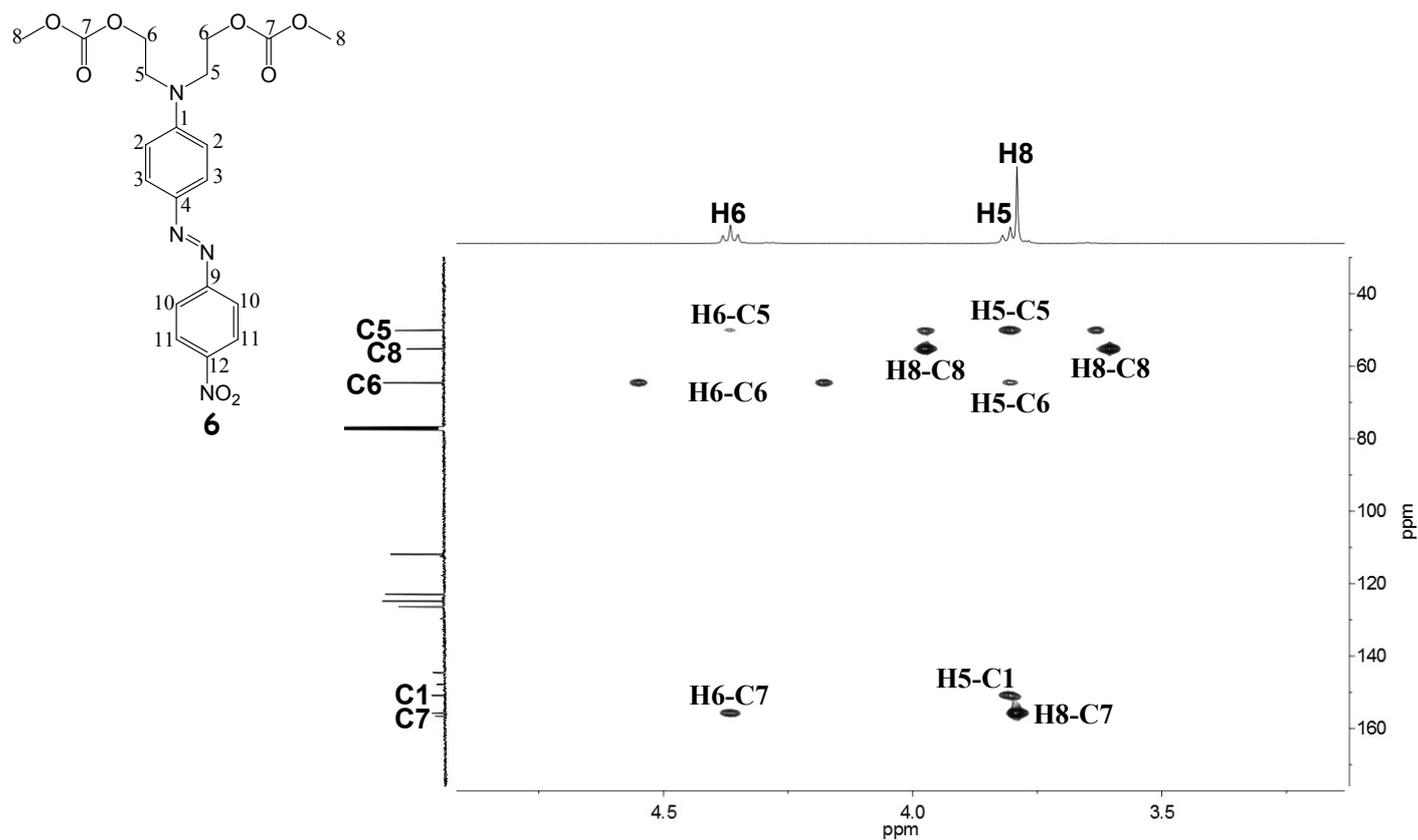


Figure 34. ^1H - ^{13}C HMBC spectrum of compound 6 (zoom of aromatic region).

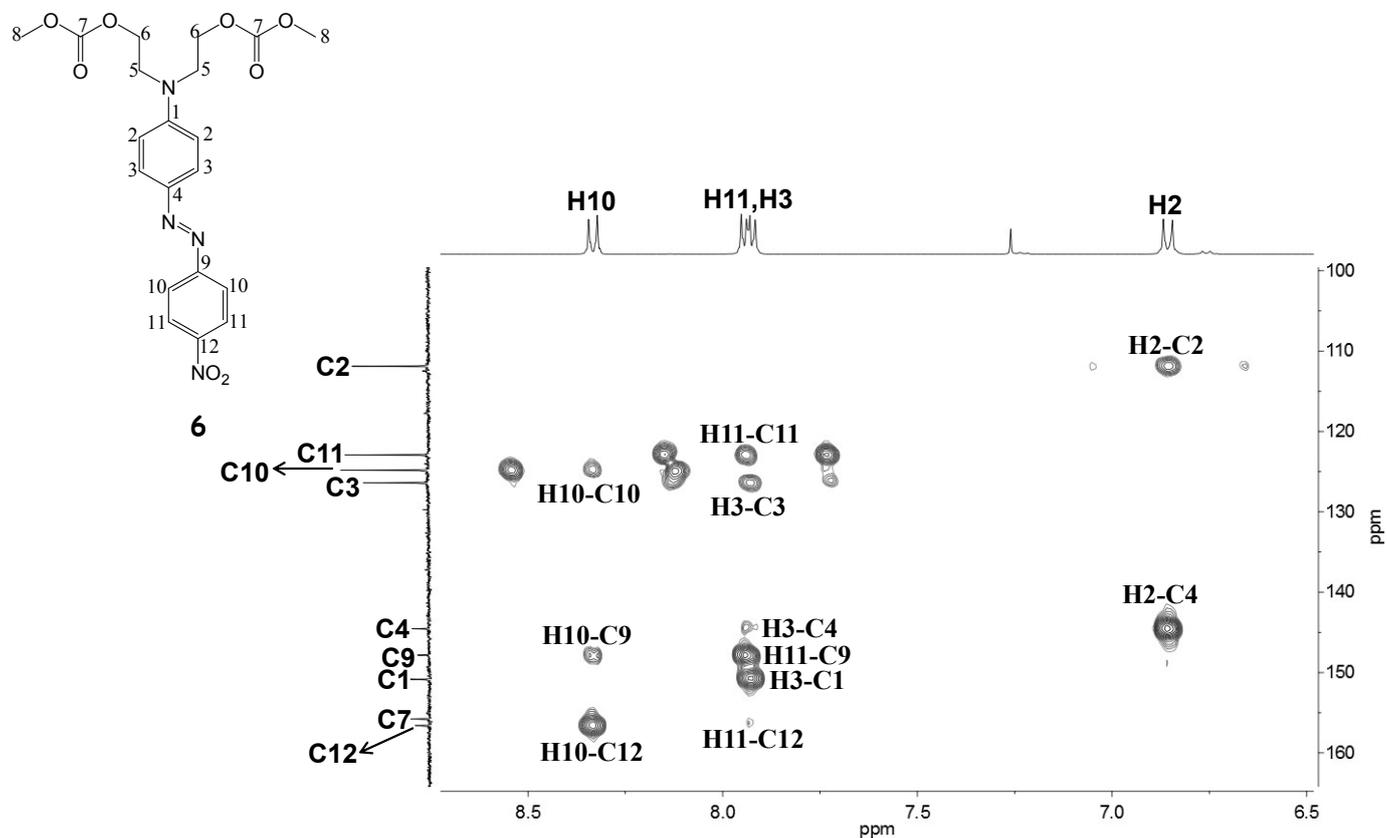


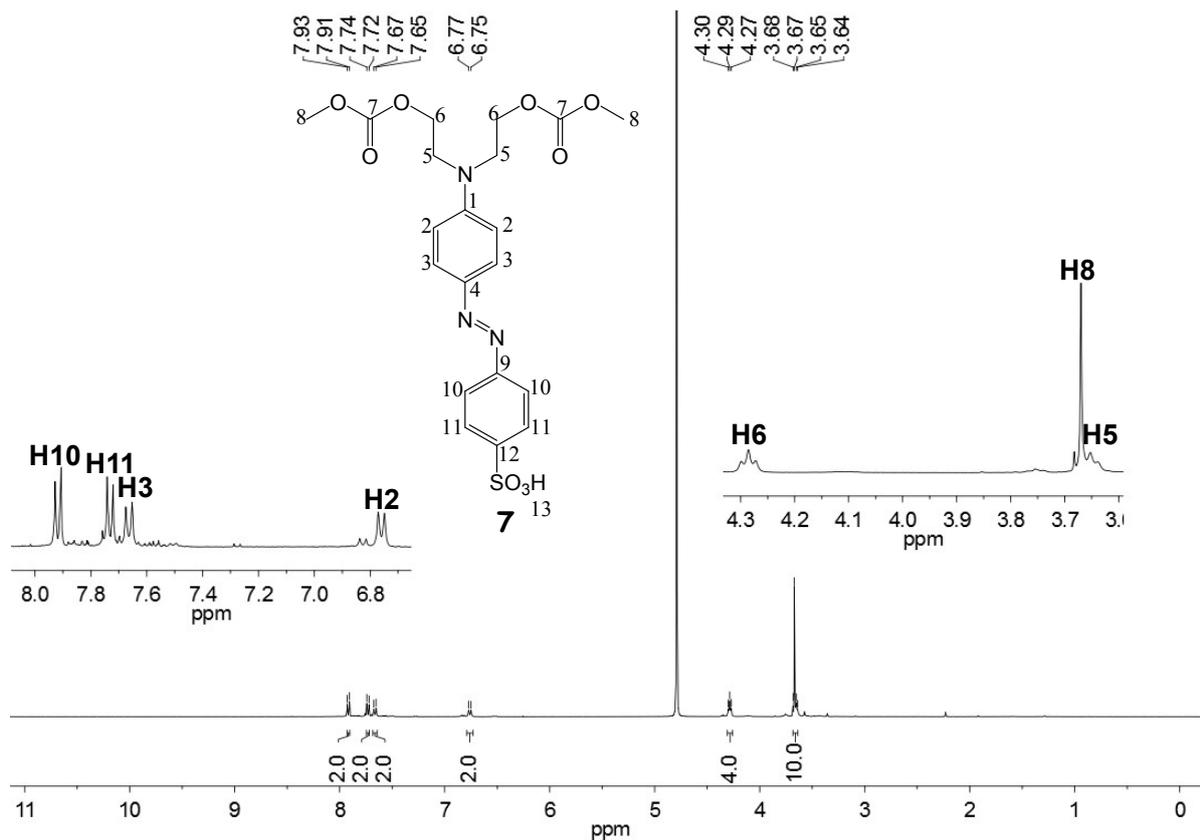
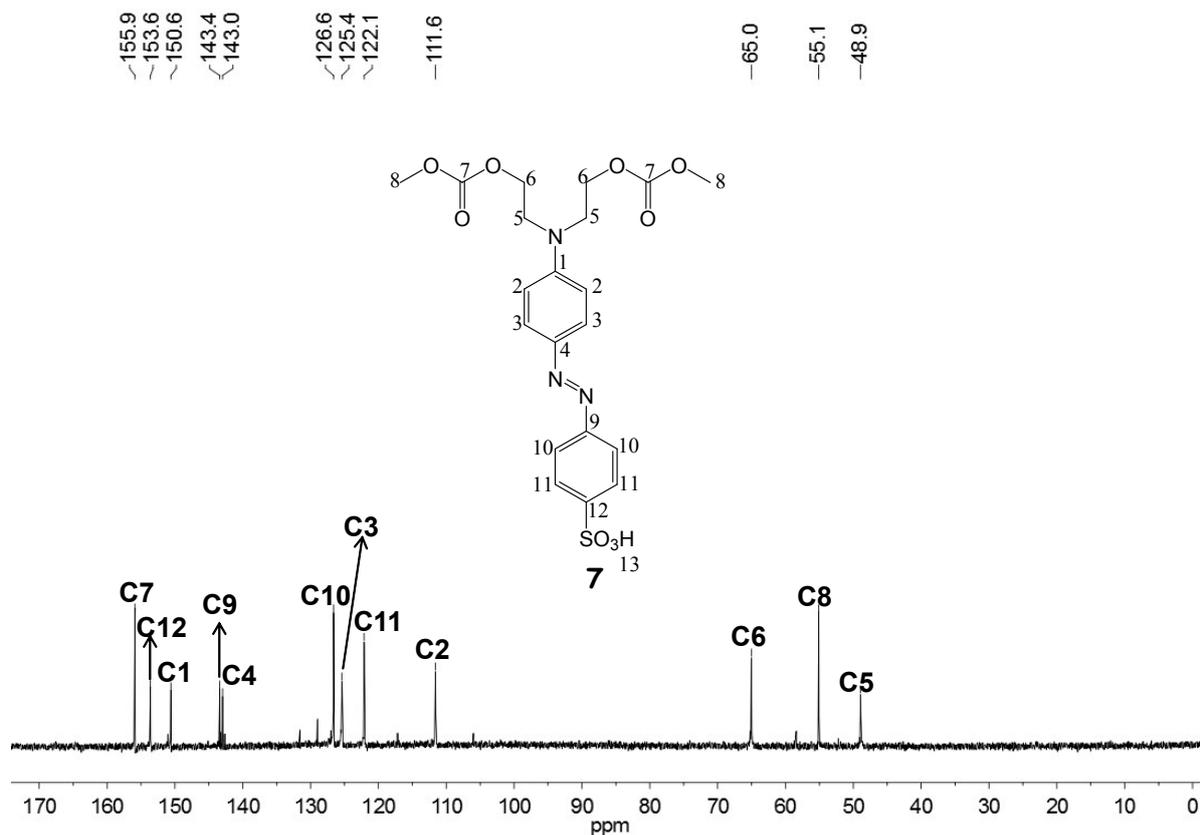
Figure 35. ^1H NMR spectrum of compound 7.Figure 36. ^{13}C NMR spectrum of compound 7.

Figure 37. ^1H - ^{13}C HSQC spectrum of compound 7.

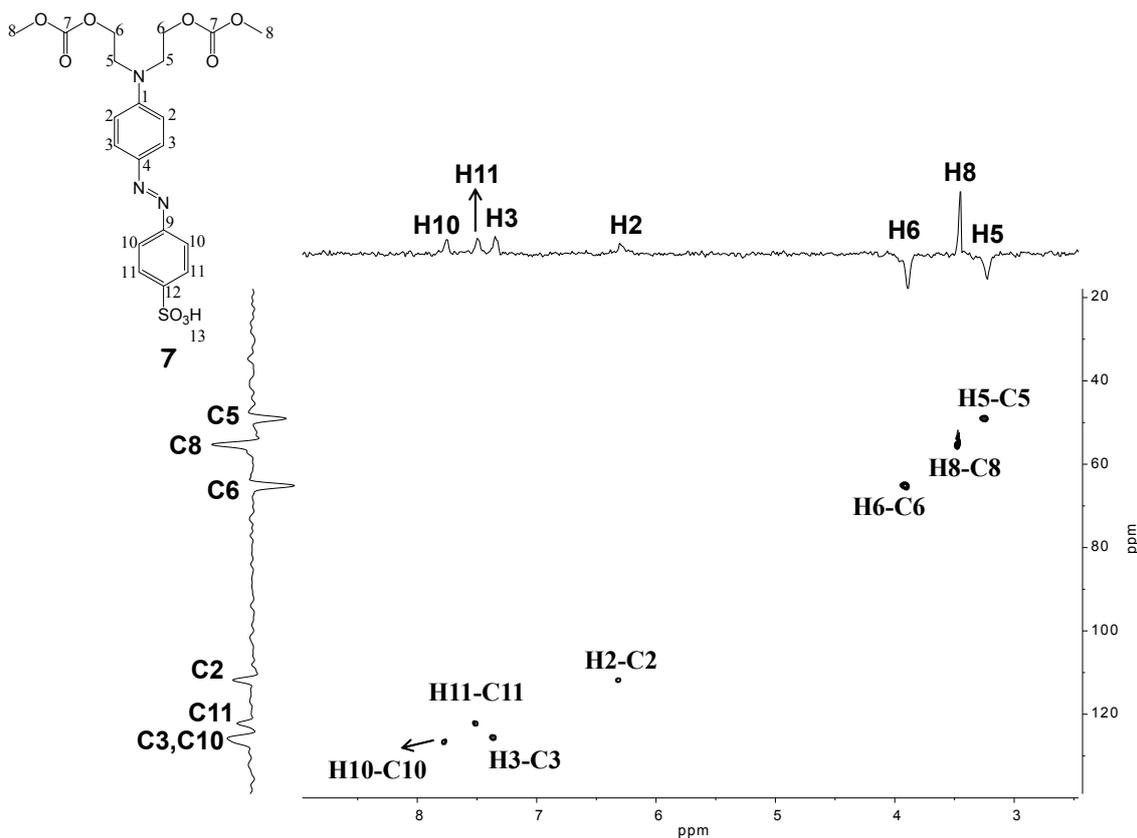


Figure 38. ^1H - ^{13}C HMBC spectrum of compound 7.

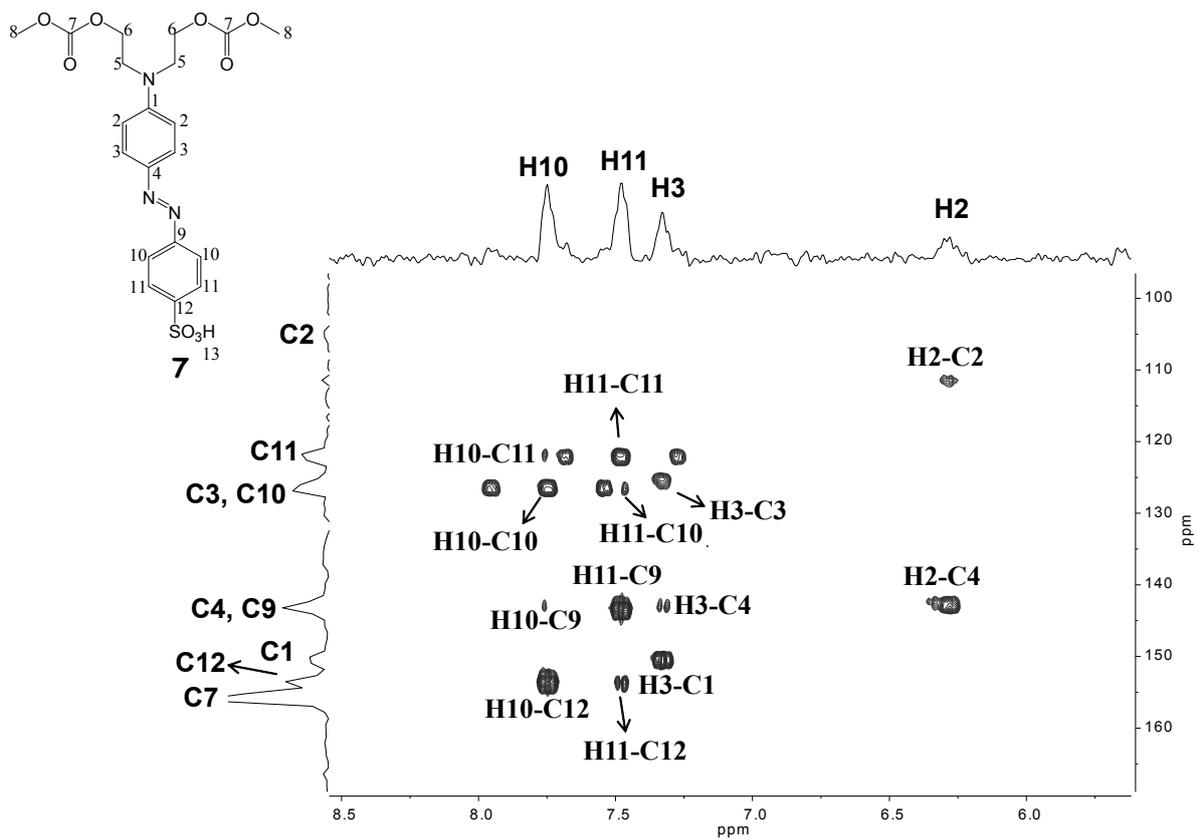


Figure 39. ^1H NMR spectrum of compound 8.

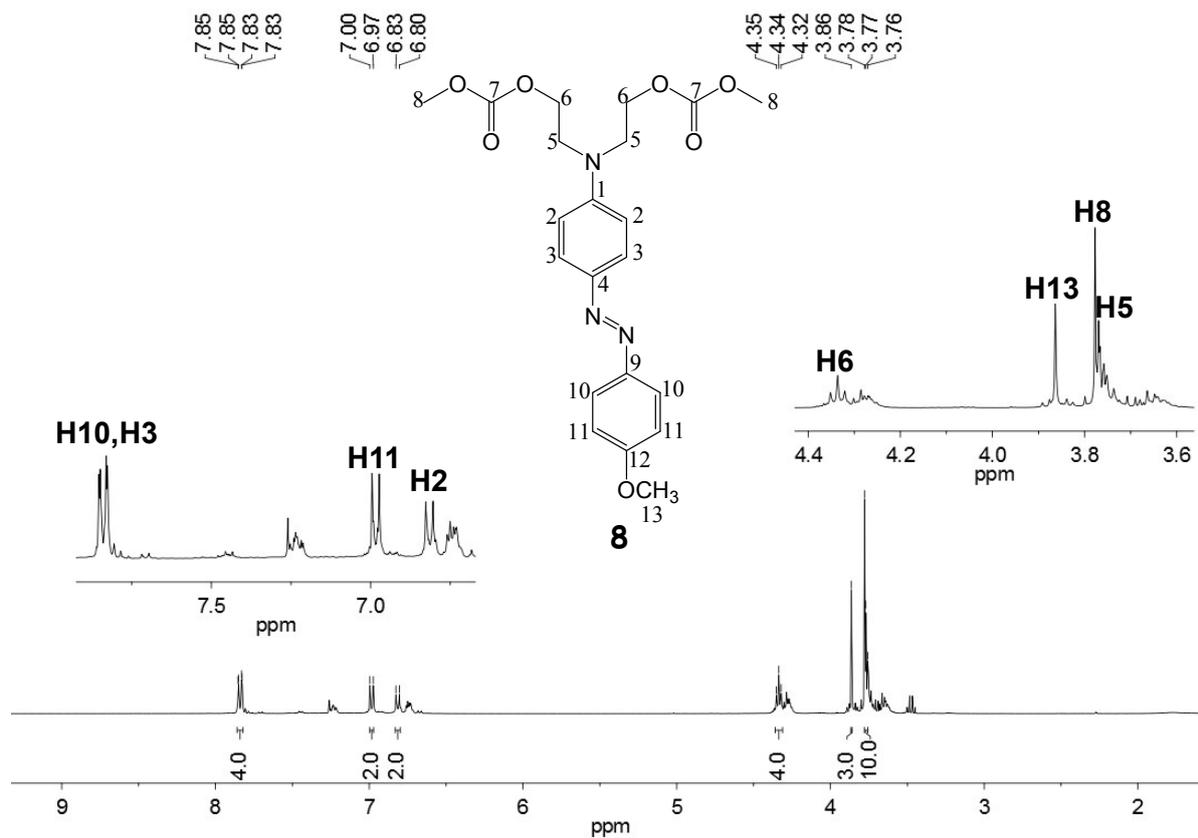


Figure 40. ^{13}C NMR spectrum of compound 8.

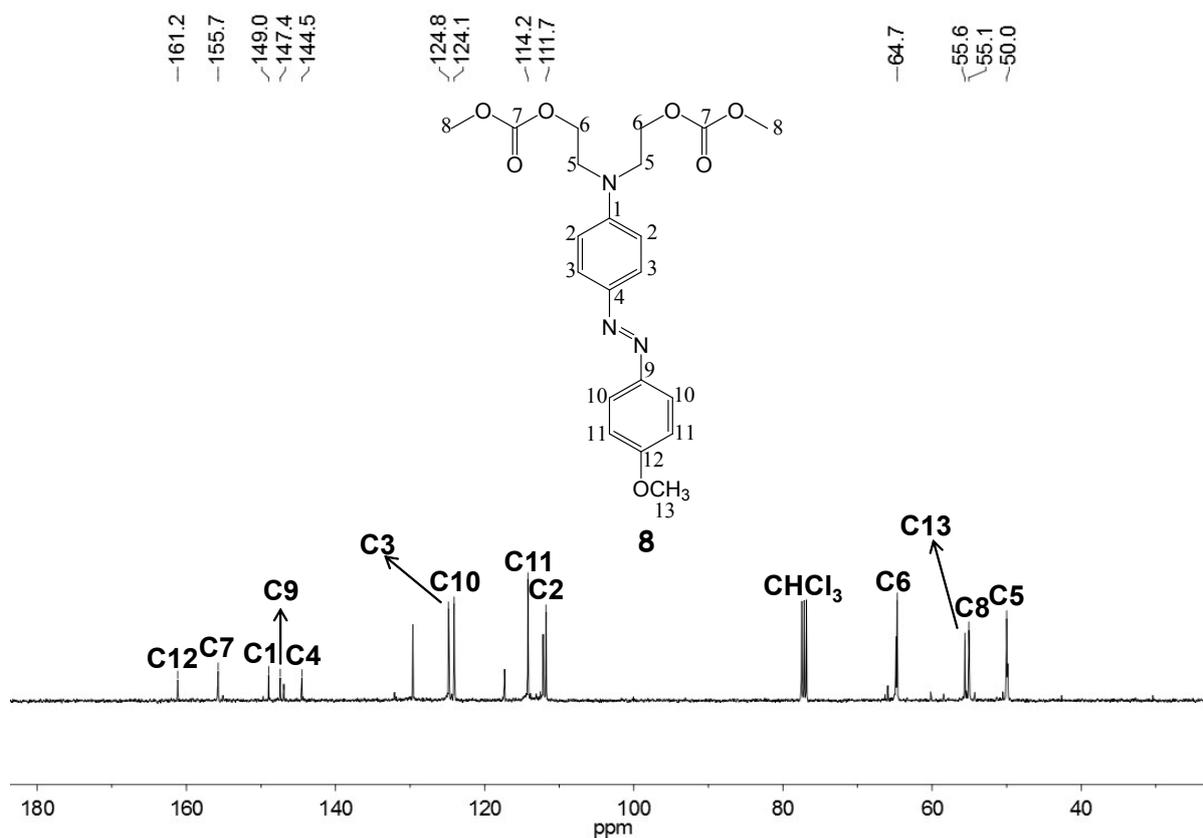


Figure 41. ^1H - ^{13}C HSQC spectrum of compound 8.

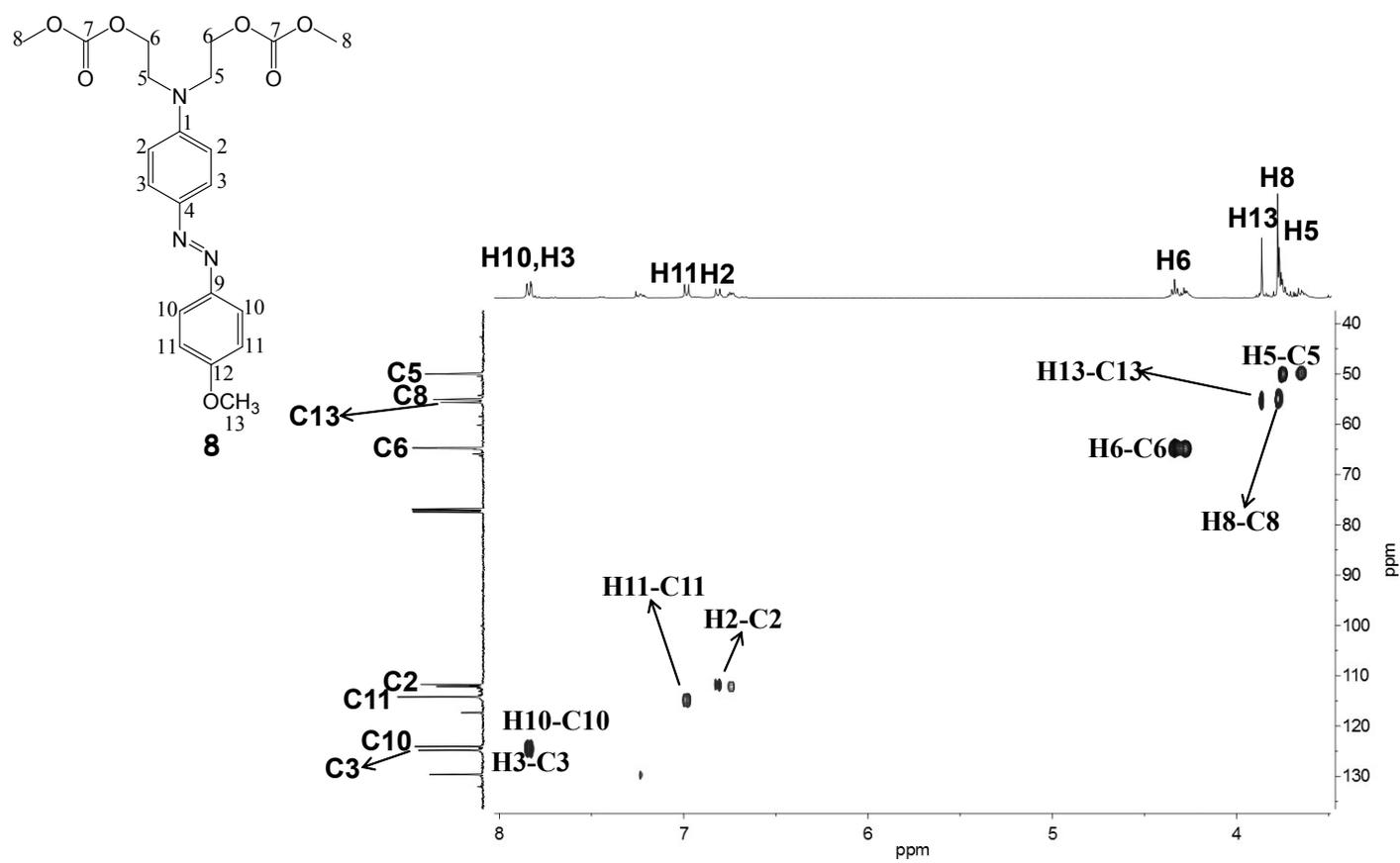


Figure 42. ^1H - ^{13}C HMBC spectrum of compound 8.

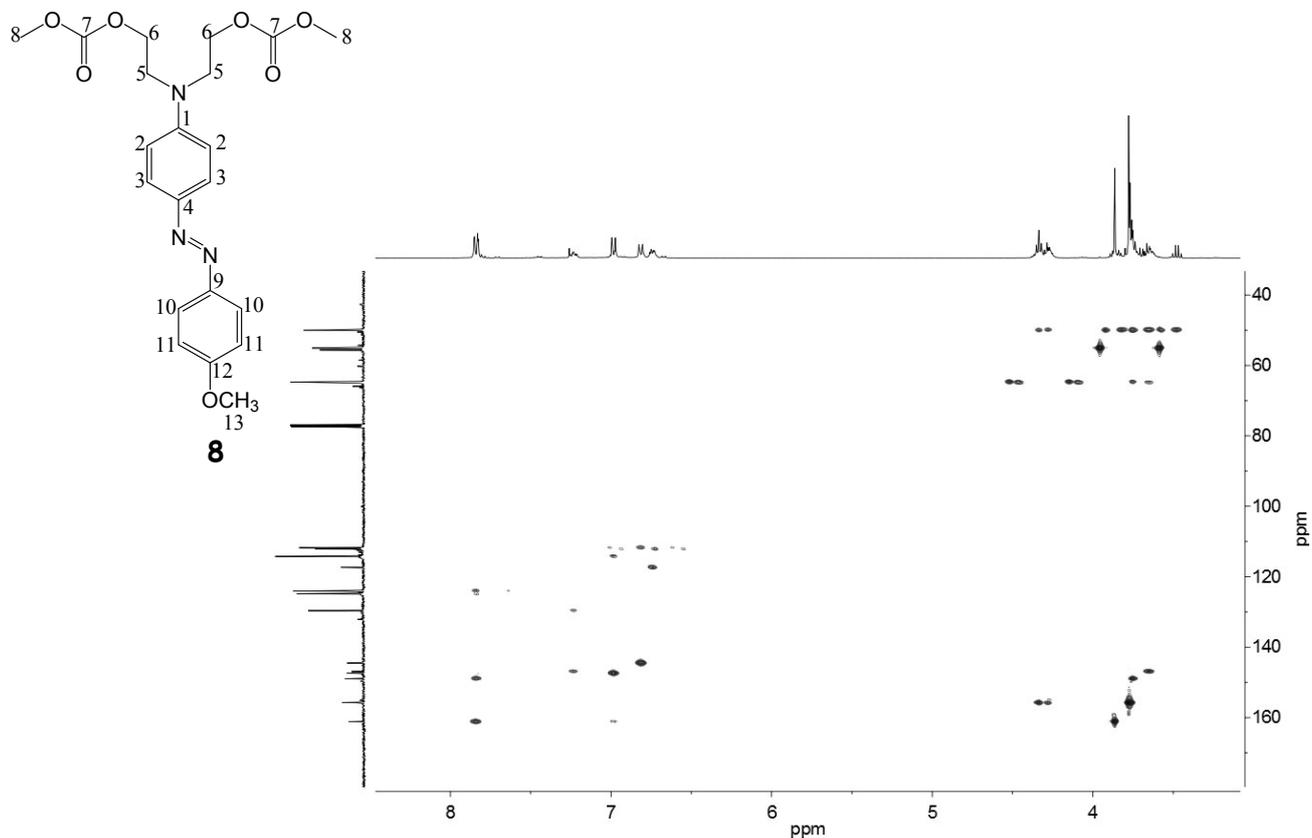


Figure 43. ^1H - ^{13}C HMBC spectrum of compound 8 (zoom of aliphatic region).

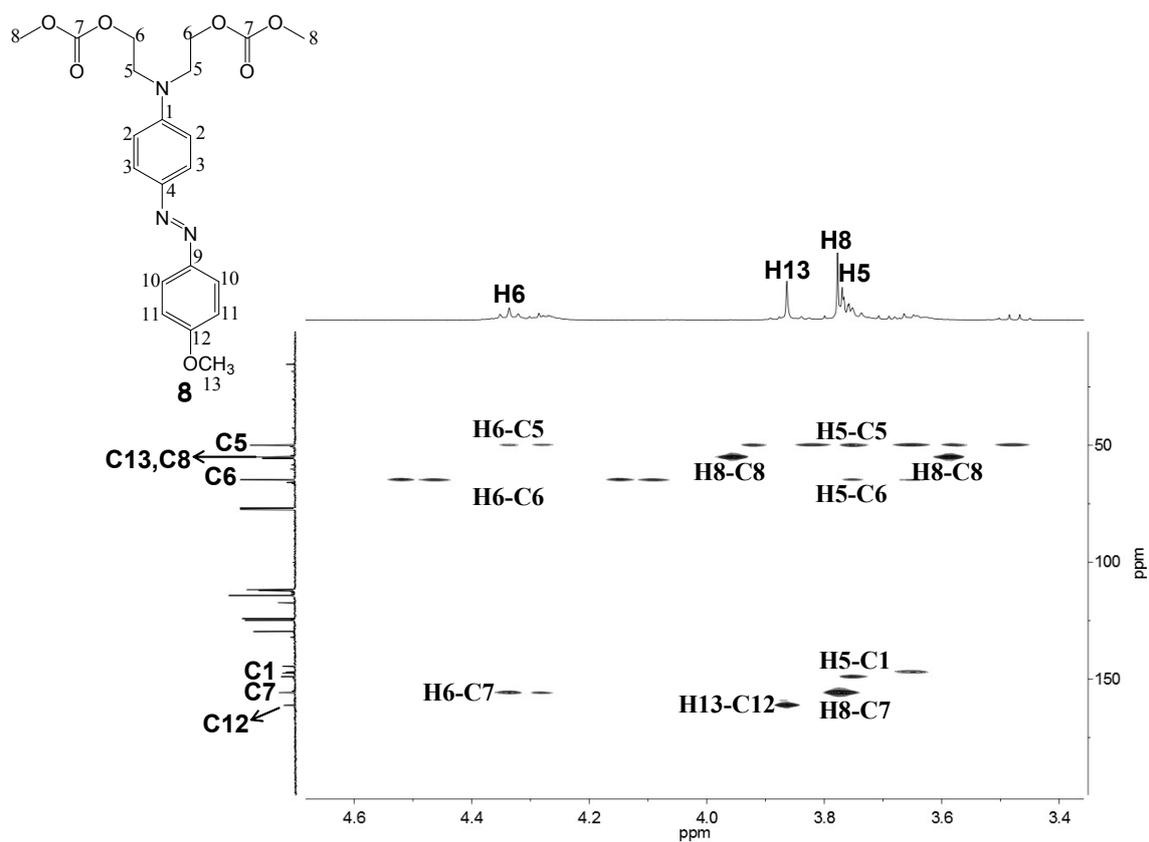


Figure 44. ^1H - ^{13}C HMBC spectrum of compound 8 (zoom of aromatic region).

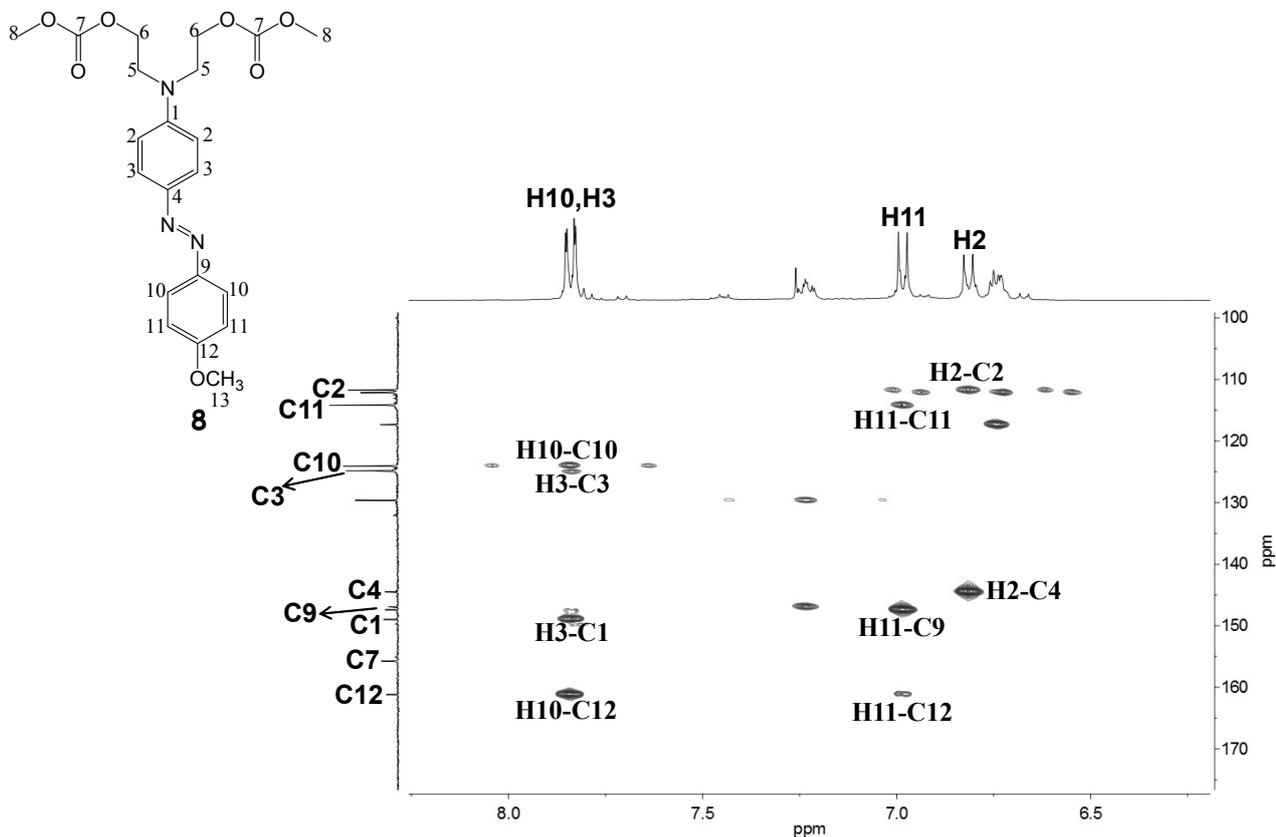


Figure 45. ^{13}C NMR spectrum of compound PCU 1.

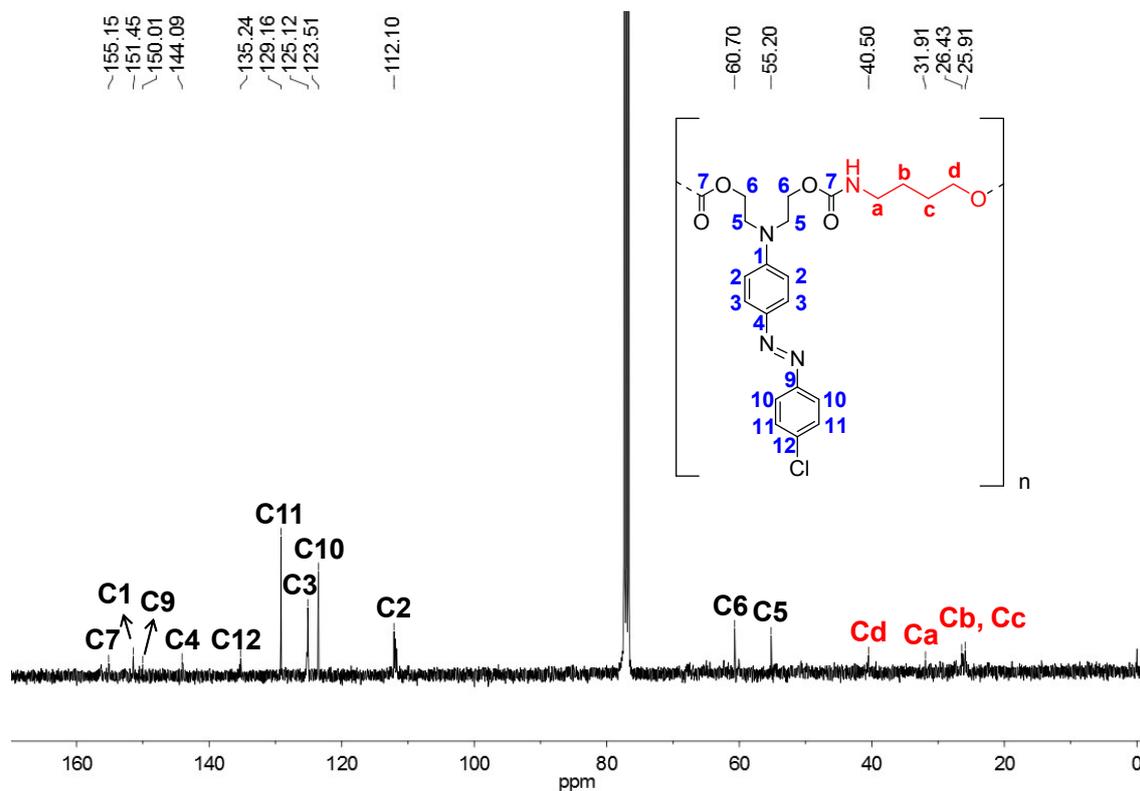
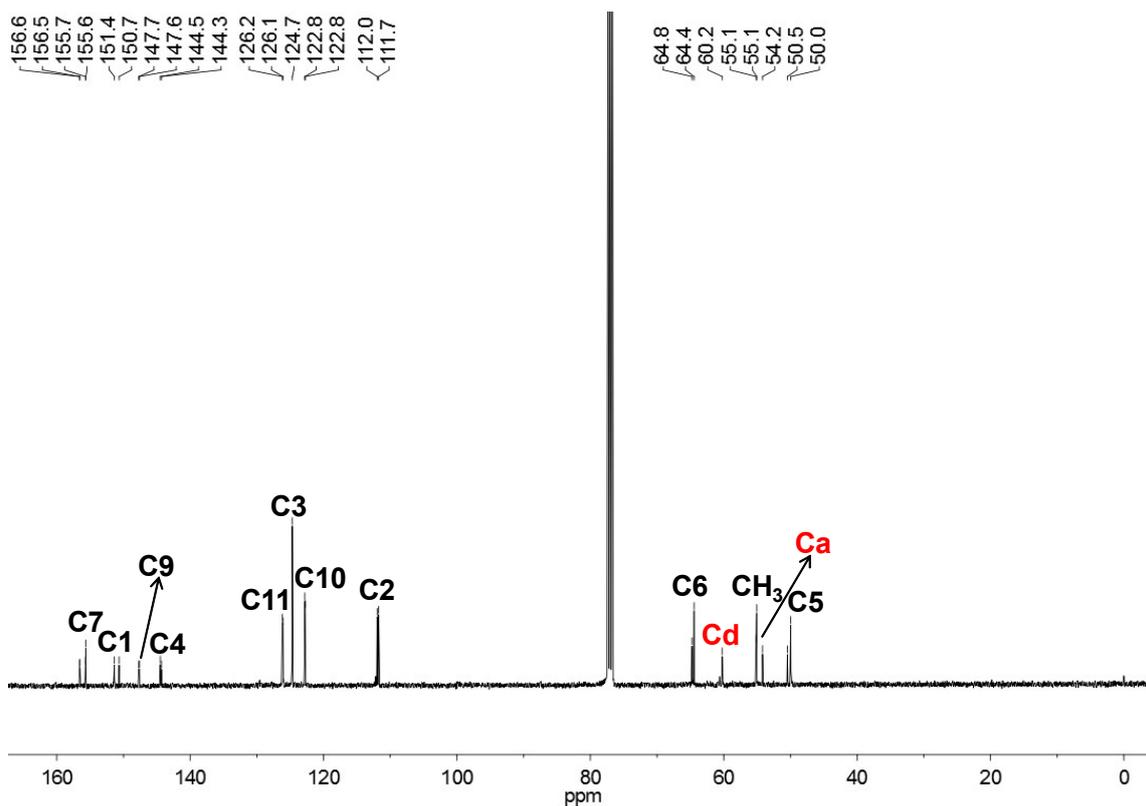


Figure 46. ^{13}C NMR spectrum of compound PCU 2.



2. EI-MS

Figure 47. EI-MS spectrum of compound 1.

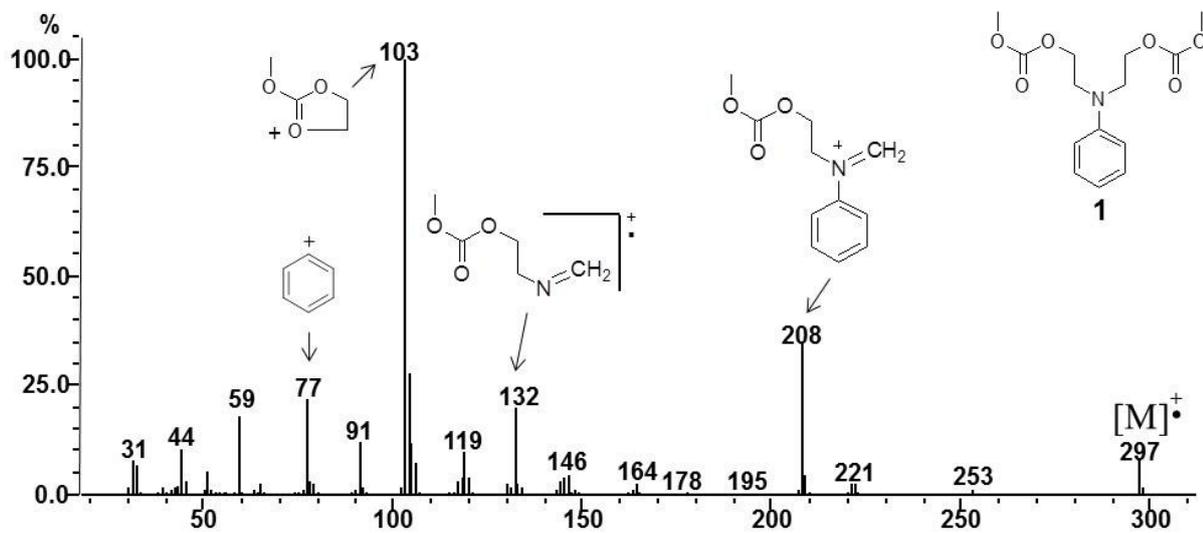


Figure 48. EI-MS spectrum of compound 2.

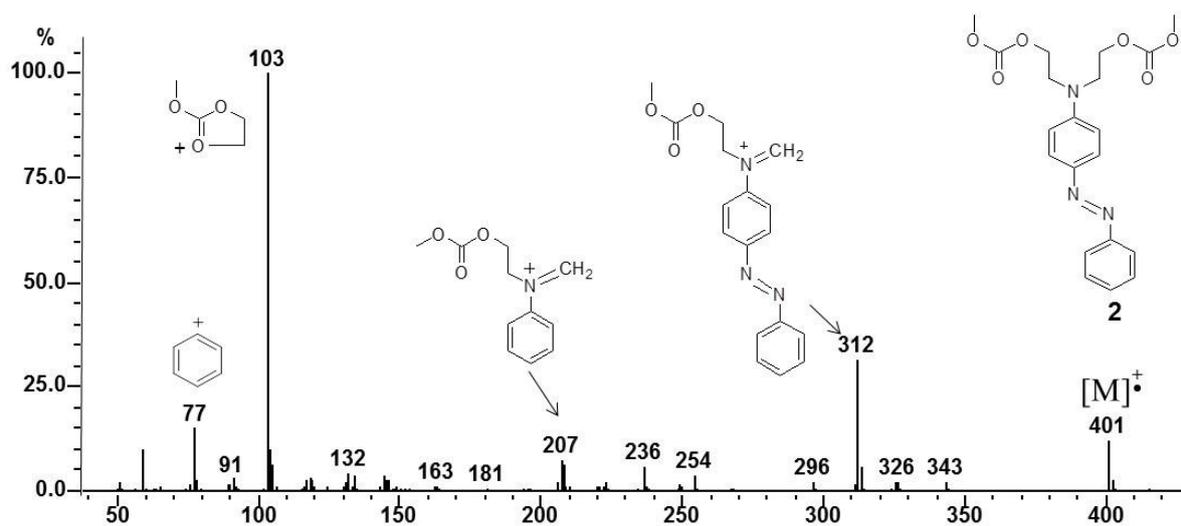


Figure 49. EI-MS spectrum of compound 3.

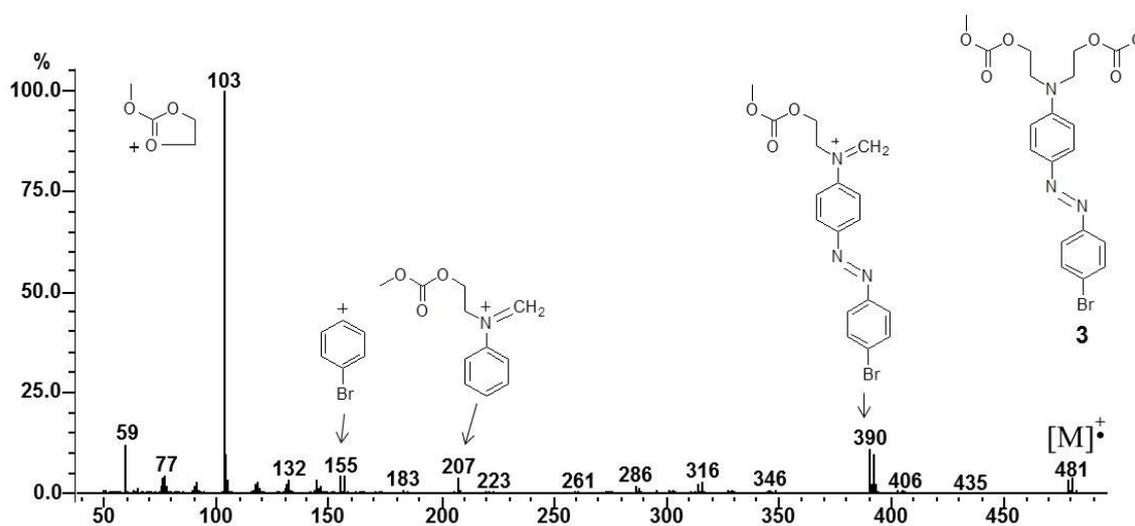


Figure 50. EI-MS spectrum of compound 4.

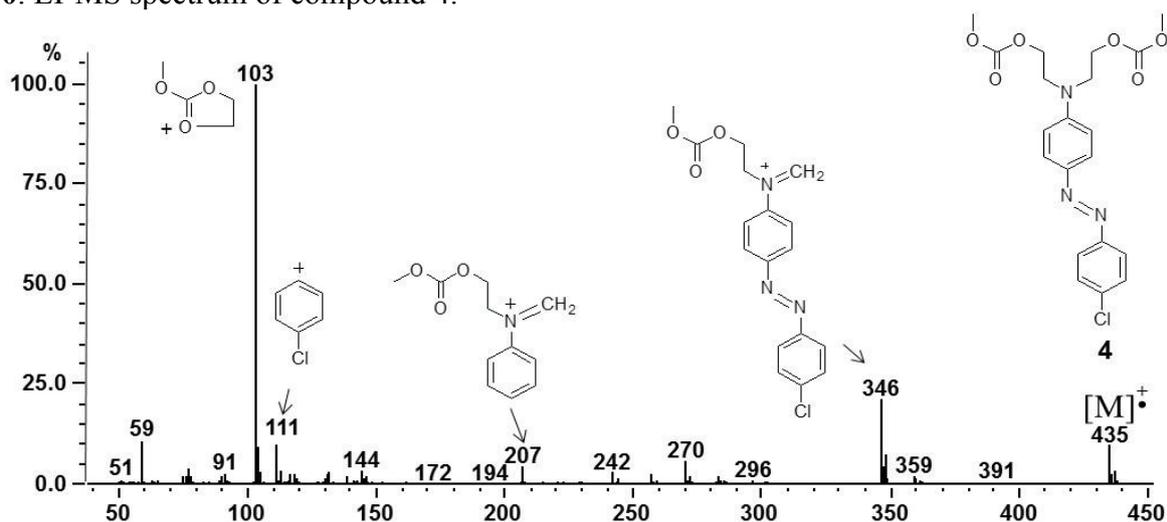


Figure 51. EI-MS spectrum of compound 5.

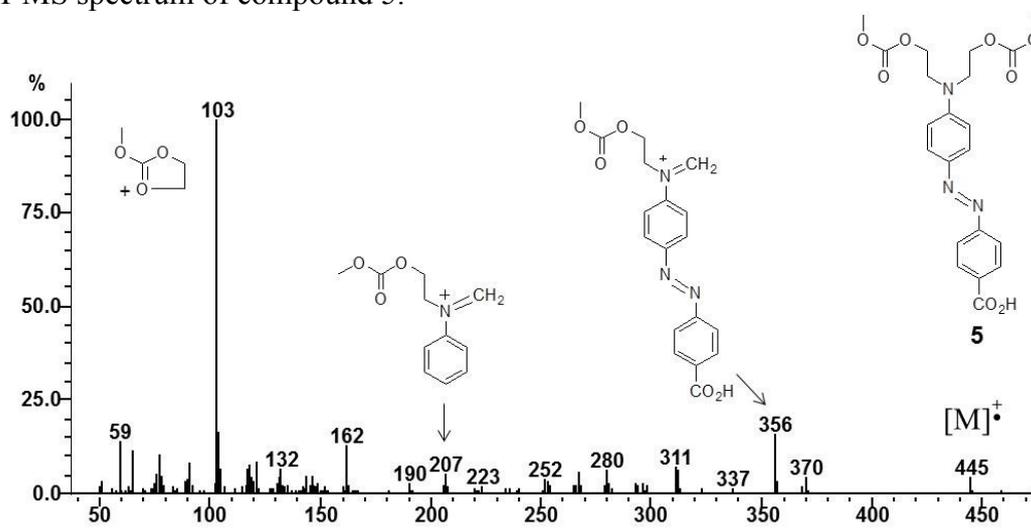
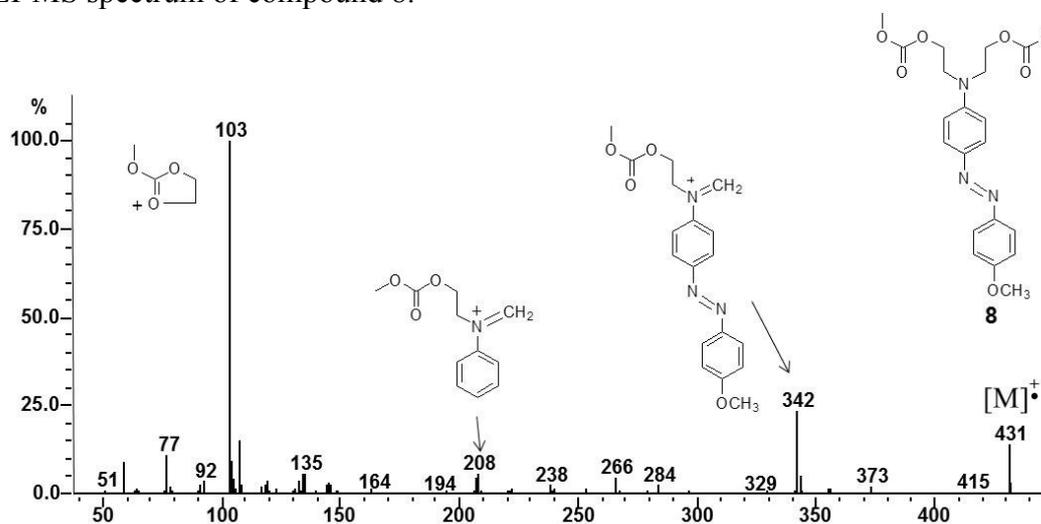


Figure 52. EI-MS spectrum of compound 8.



3. FT-IR

Figure 53. FT-IR spectrum of compound 1 in KBr pellet.

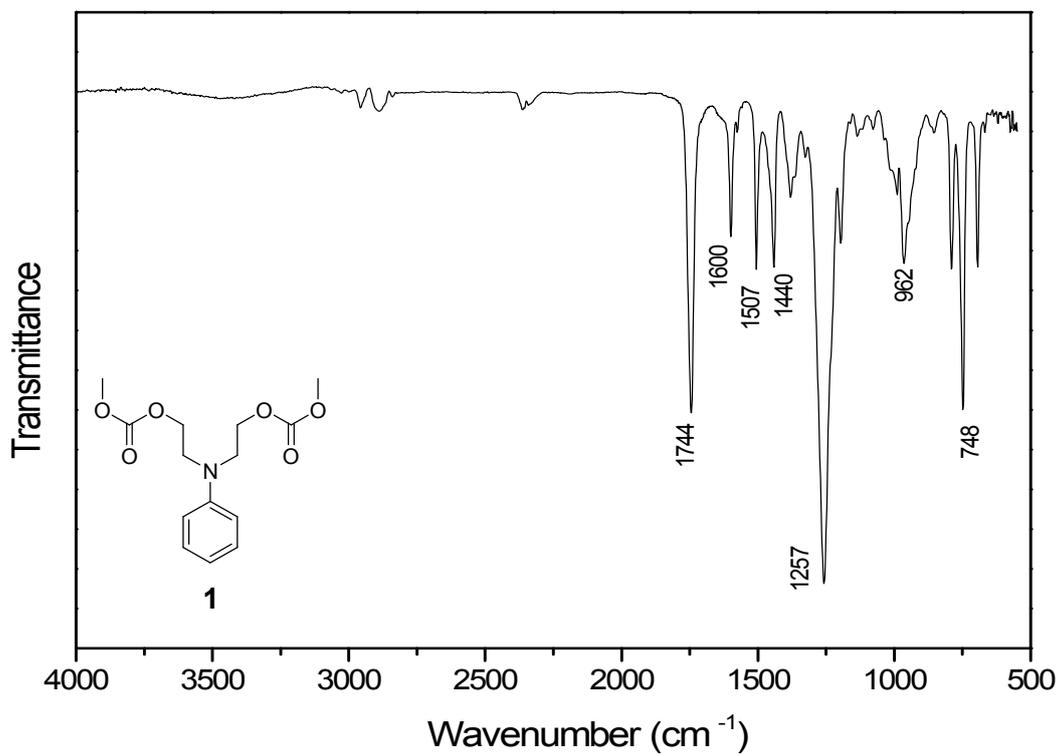


Figure 54. FT-IR spectrum of compound 2 in KBr pellet.

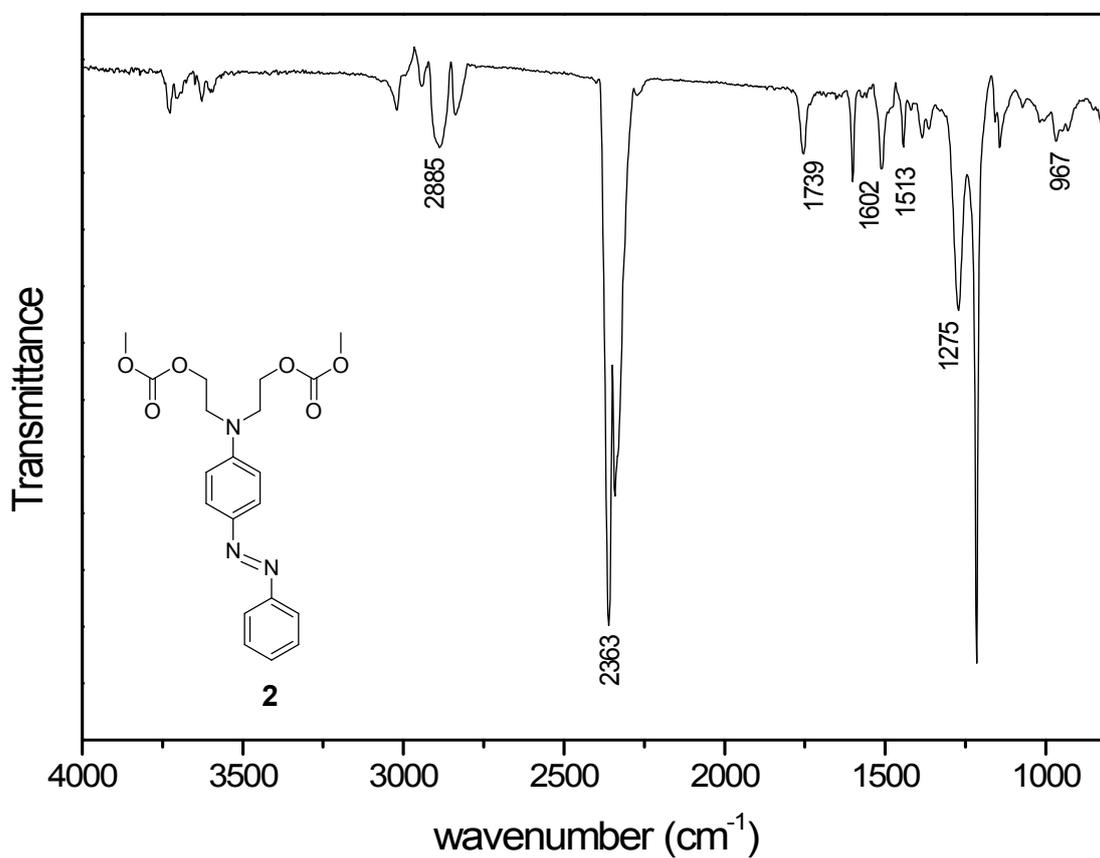


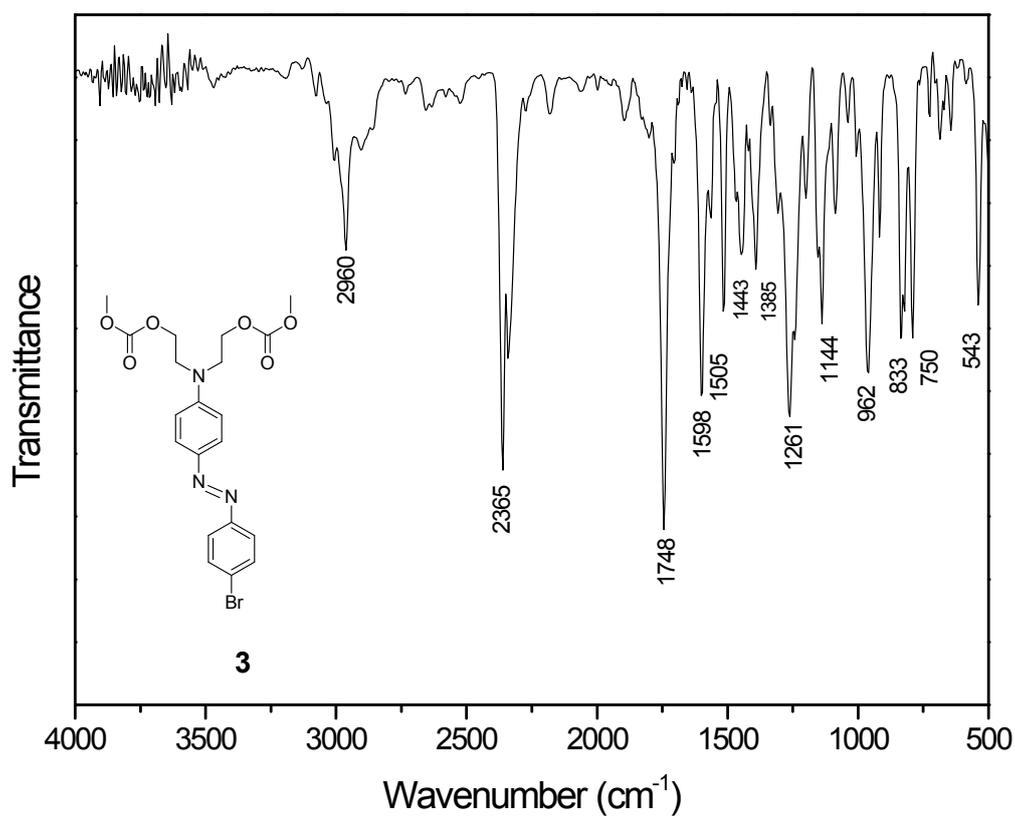
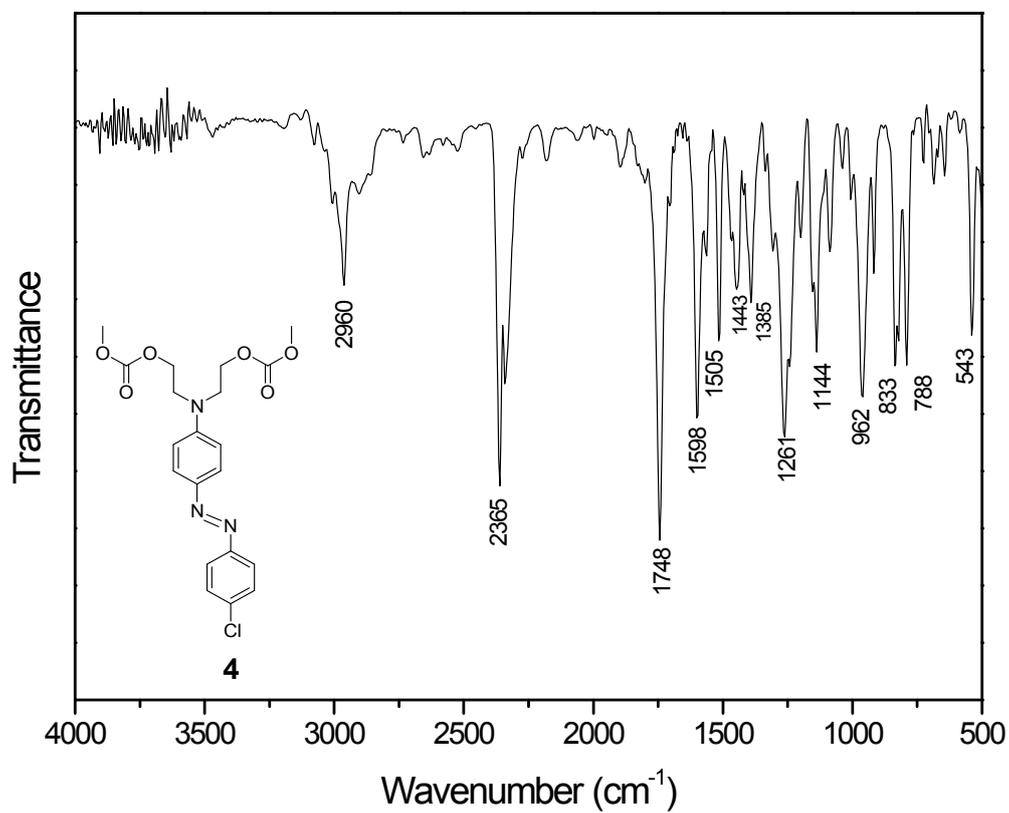
Figure 55. FT-IR spectrum of compound 3 in KBr pellet.**Figure 56.** FT-IR spectrum of compound 4 in KBr pellet.

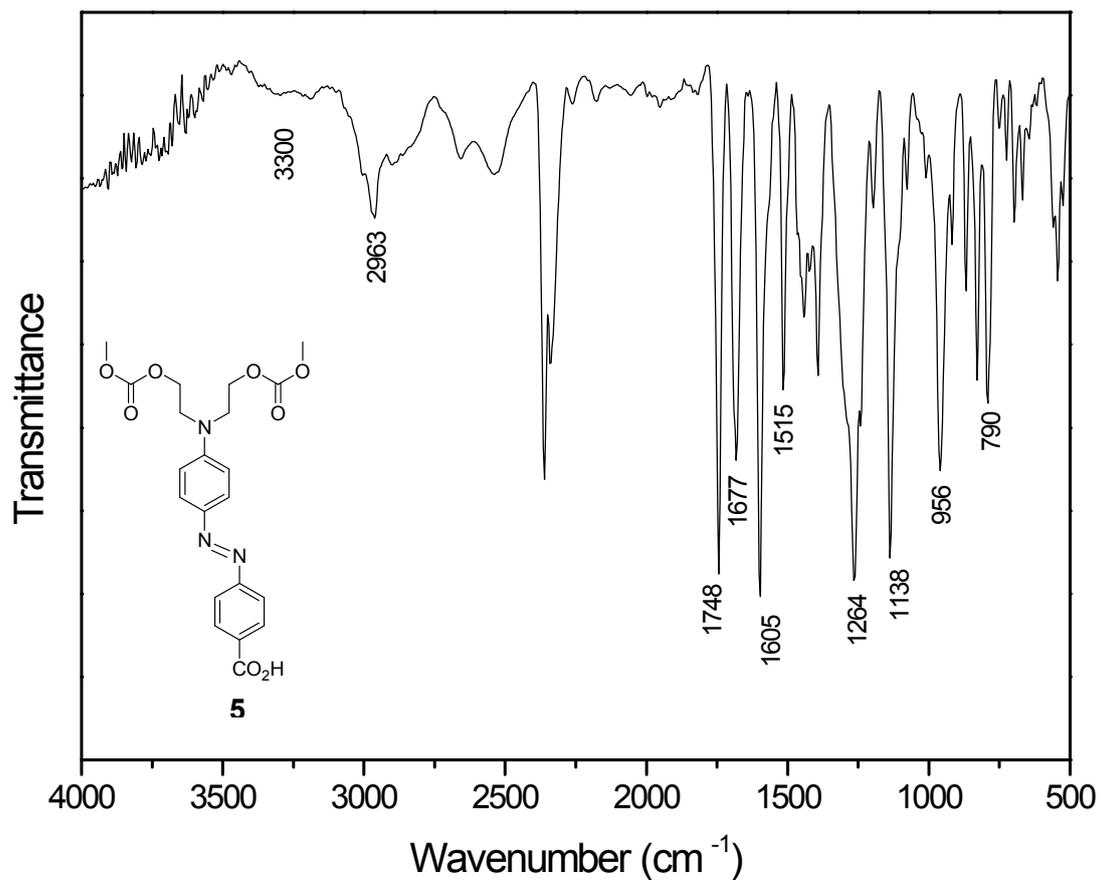
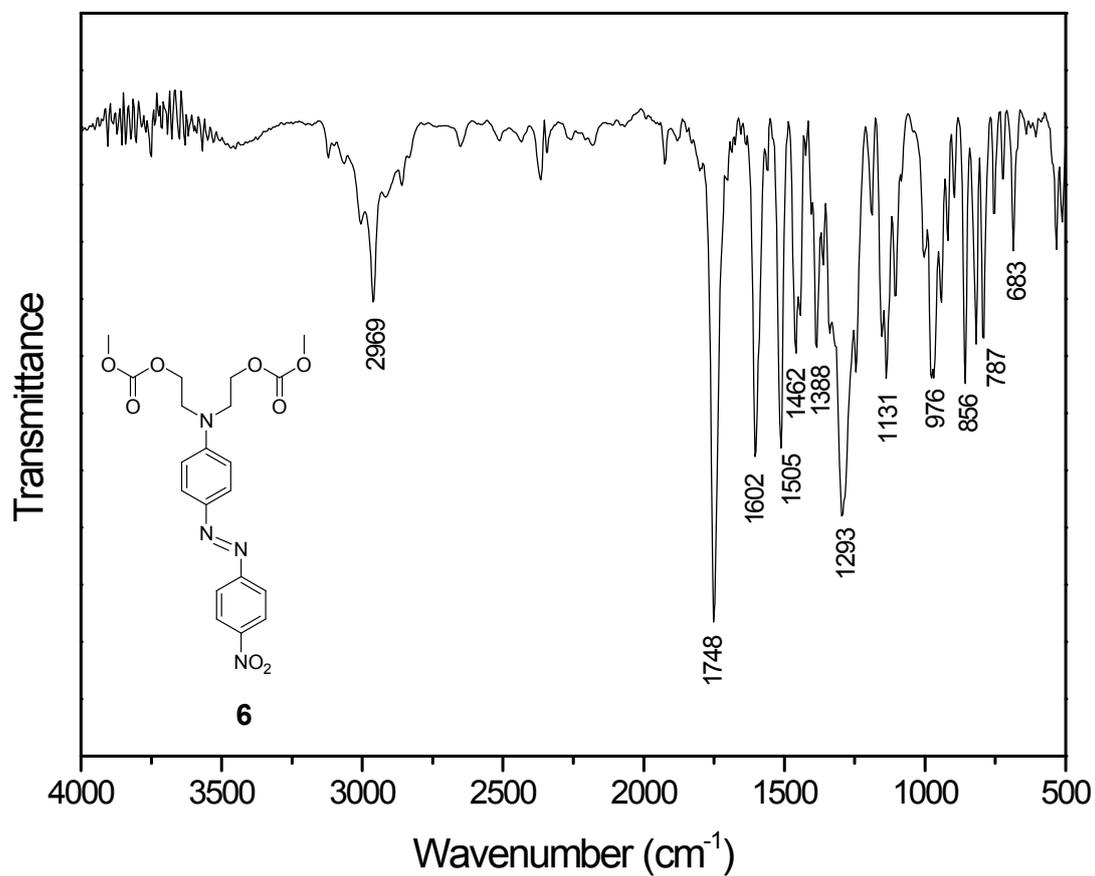
Figure 57. FT-IR spectrum of compound 5 in KBr pellet.**Figure 58.** FT-IR spectrum of compound 6 in KBr pellet.

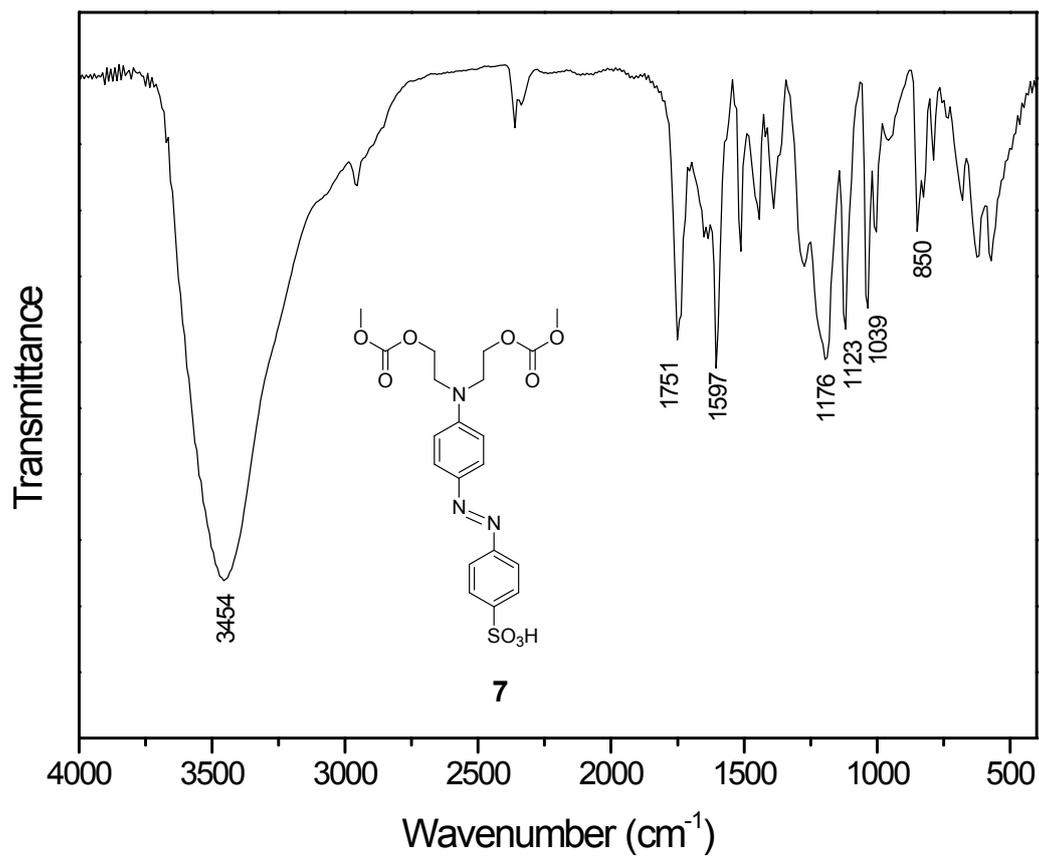
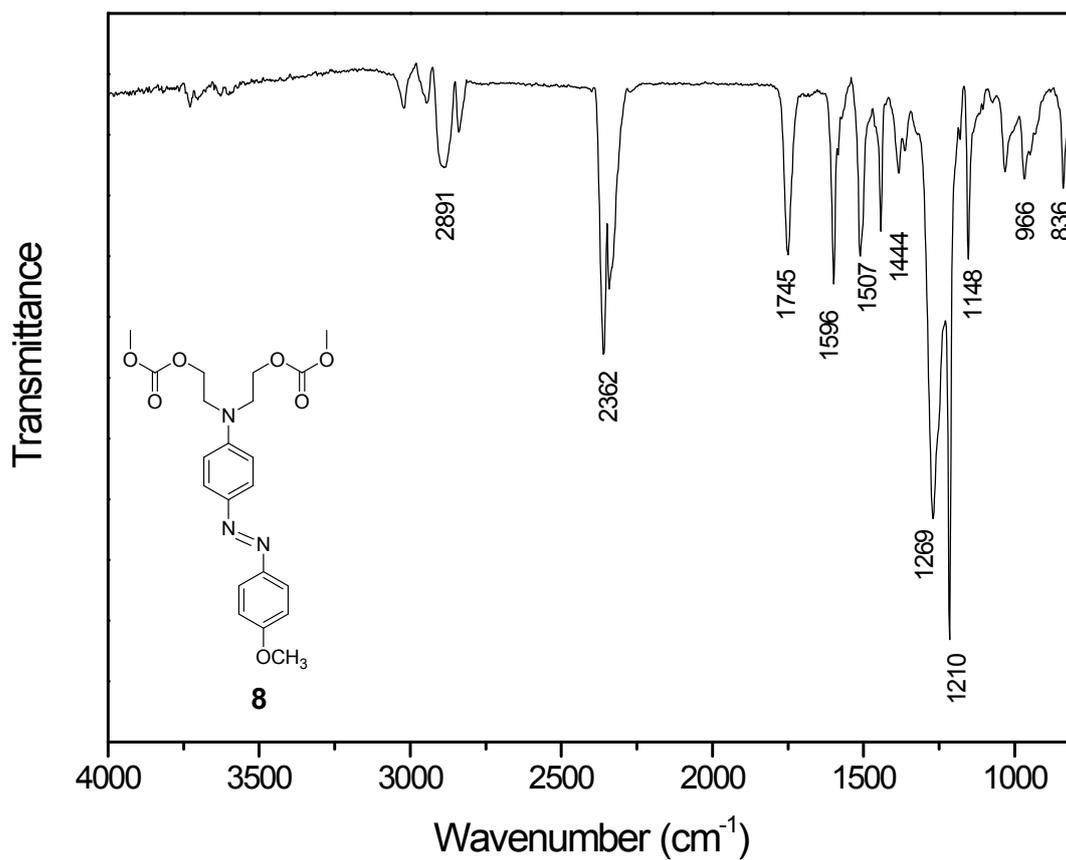
Figure 59. FT-IR spectrum of compound 7 in KBr pellet.**Figure 60.** FT-IR spectrum of compound 8 in KBr pellet.

Figure 61. FT-IR spectrum of PCU 1 in KBr pellet.

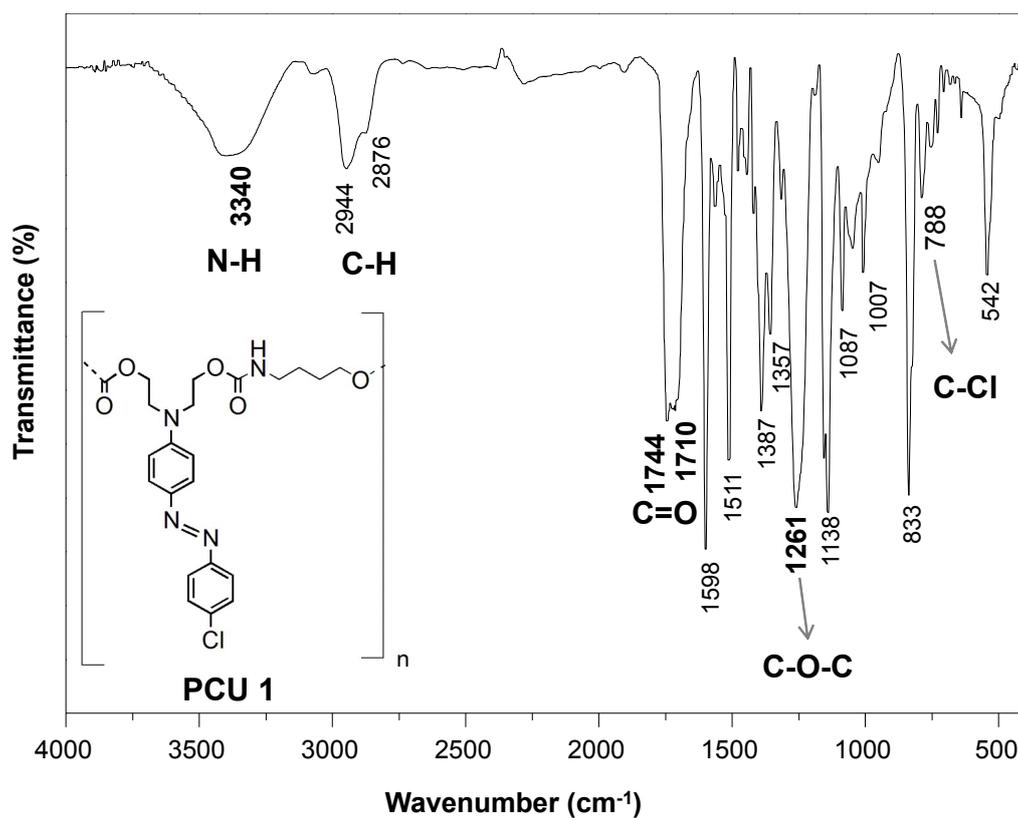
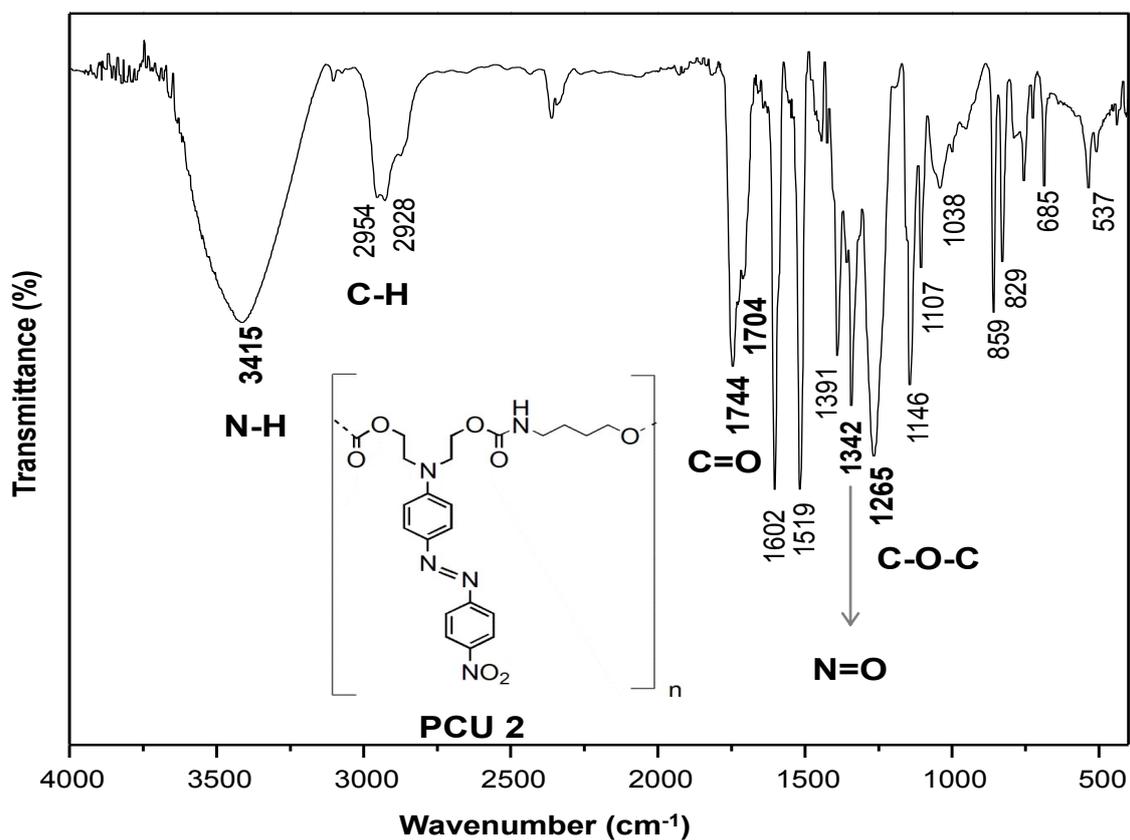


Figure 62. FT-IR spectrum of PCU 2 in KBr pellet.



4. UV-Vis

Figure 63. UV-Vis spectrum of compound 1 in DMSO.

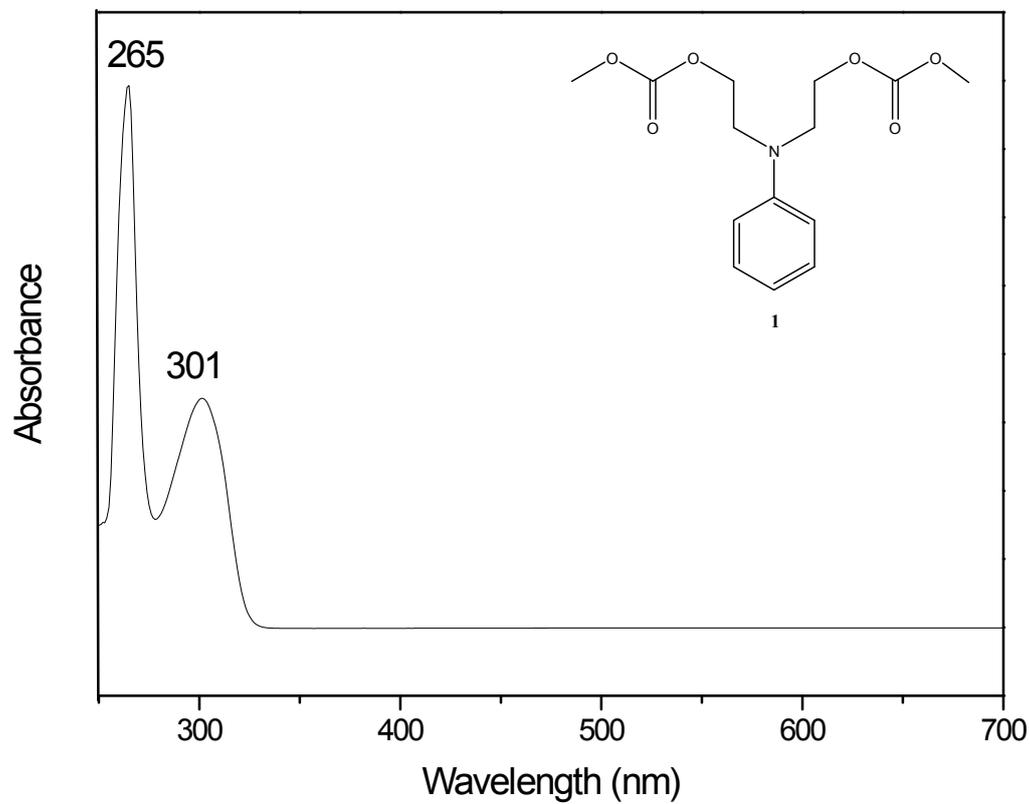


Figure 64. UV-Vis spectrum of compound 2 in DMSO.

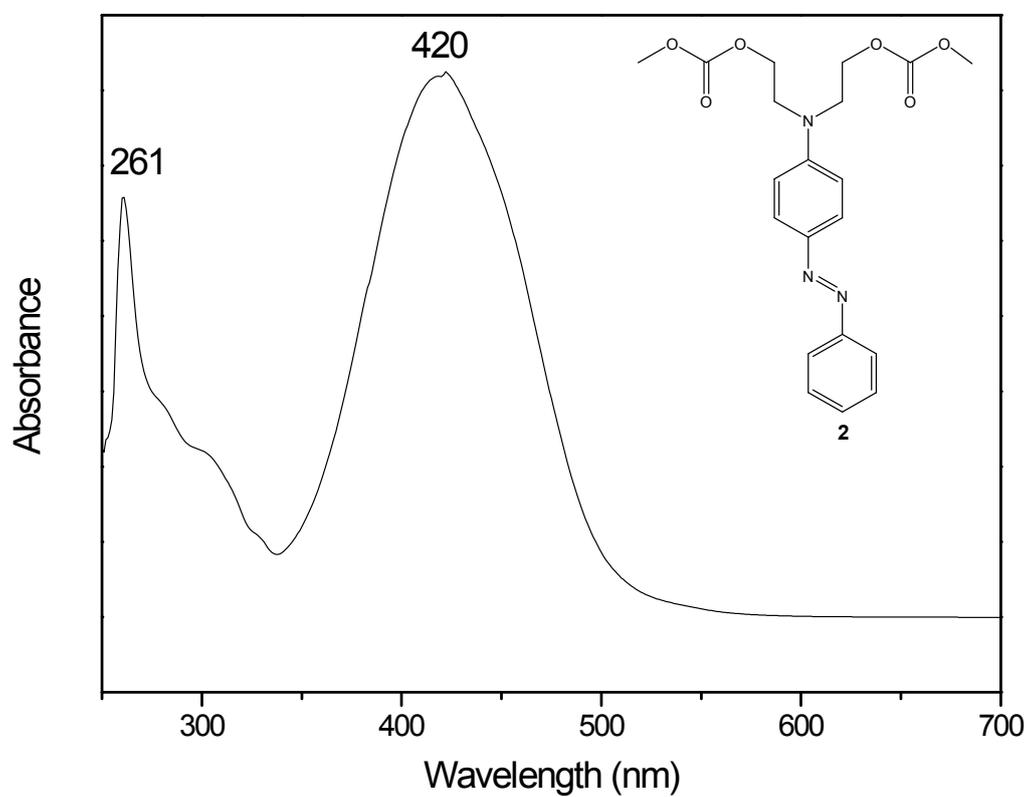


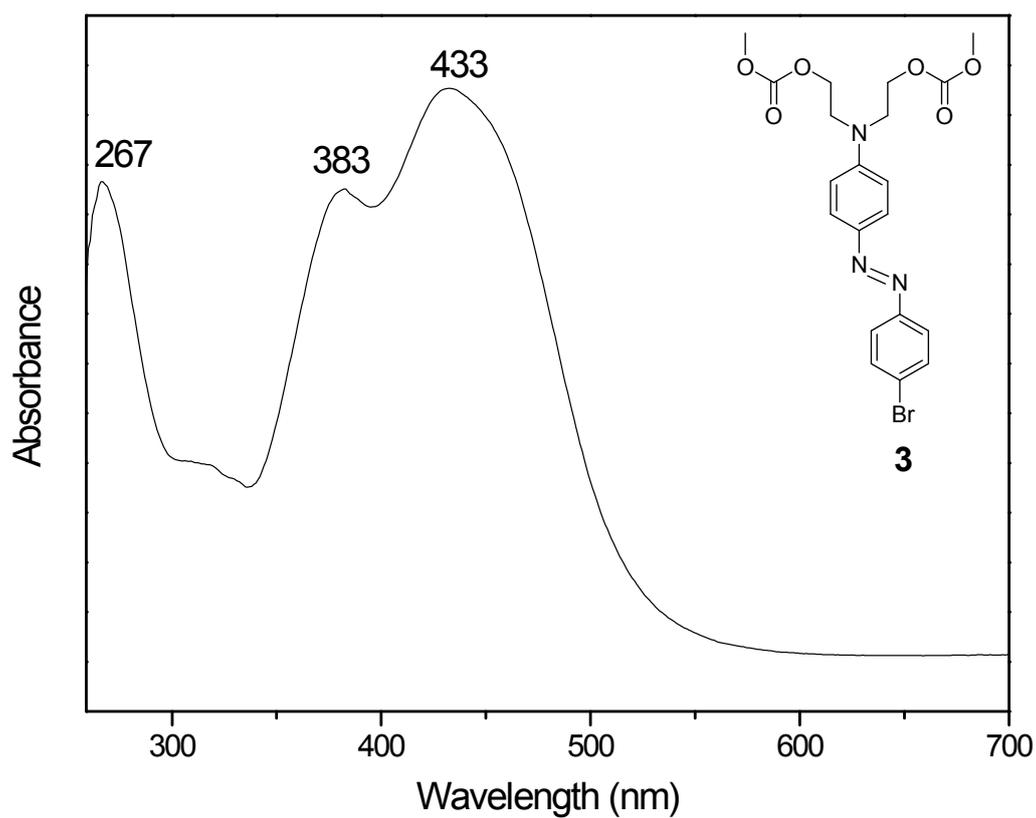
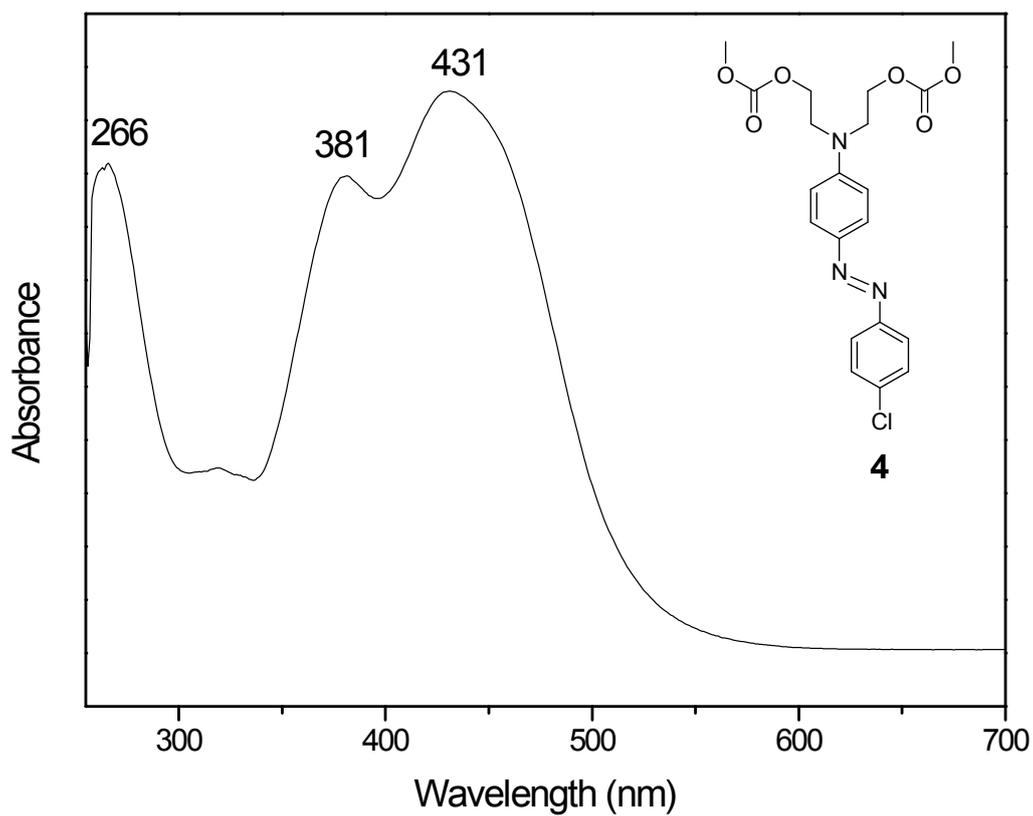
Figure 65. UV-Vis spectrum of compound **3** in DMSO.**Figure 66.** UV-Vis spectrum of compound **4** in DMSO.

Figure 67. UV-Vis spectrum of compound 5 in DMSO.

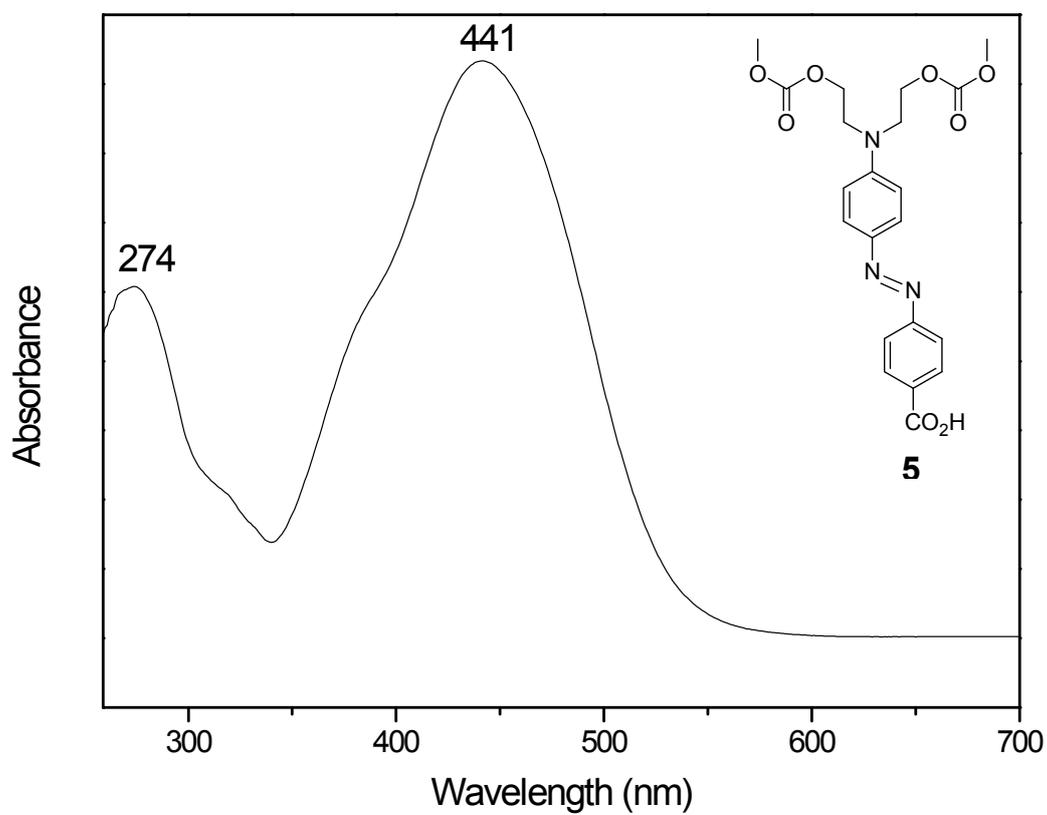


Figure 68. UV-Vis spectrum of compound 6 in DMSO.

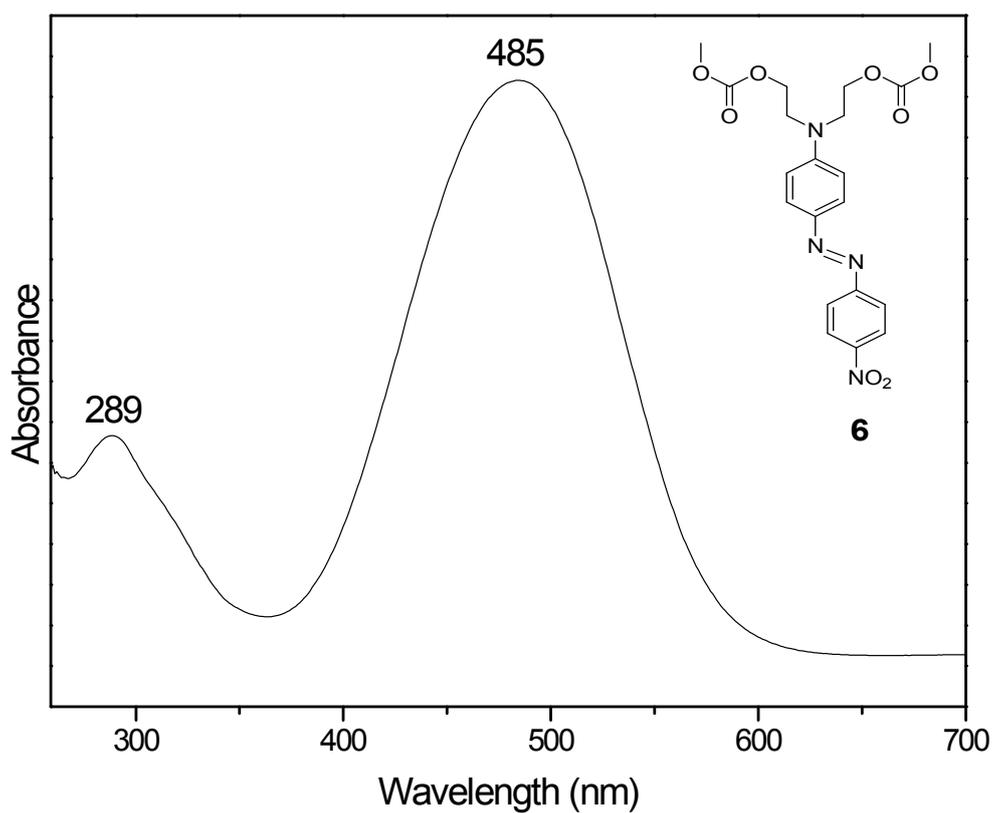


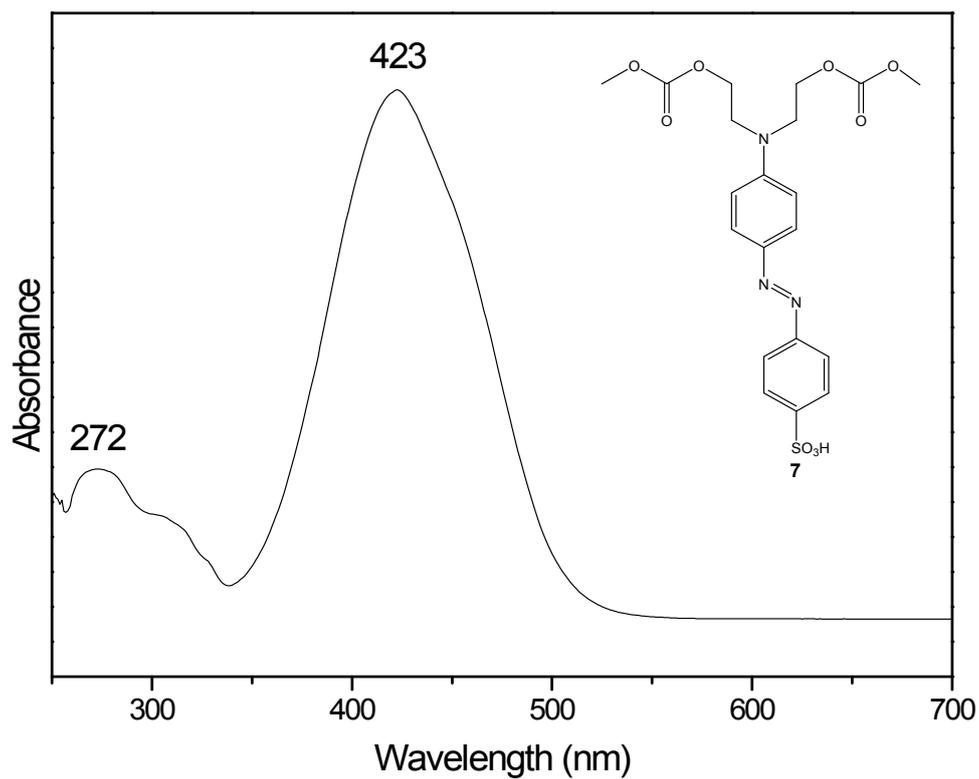
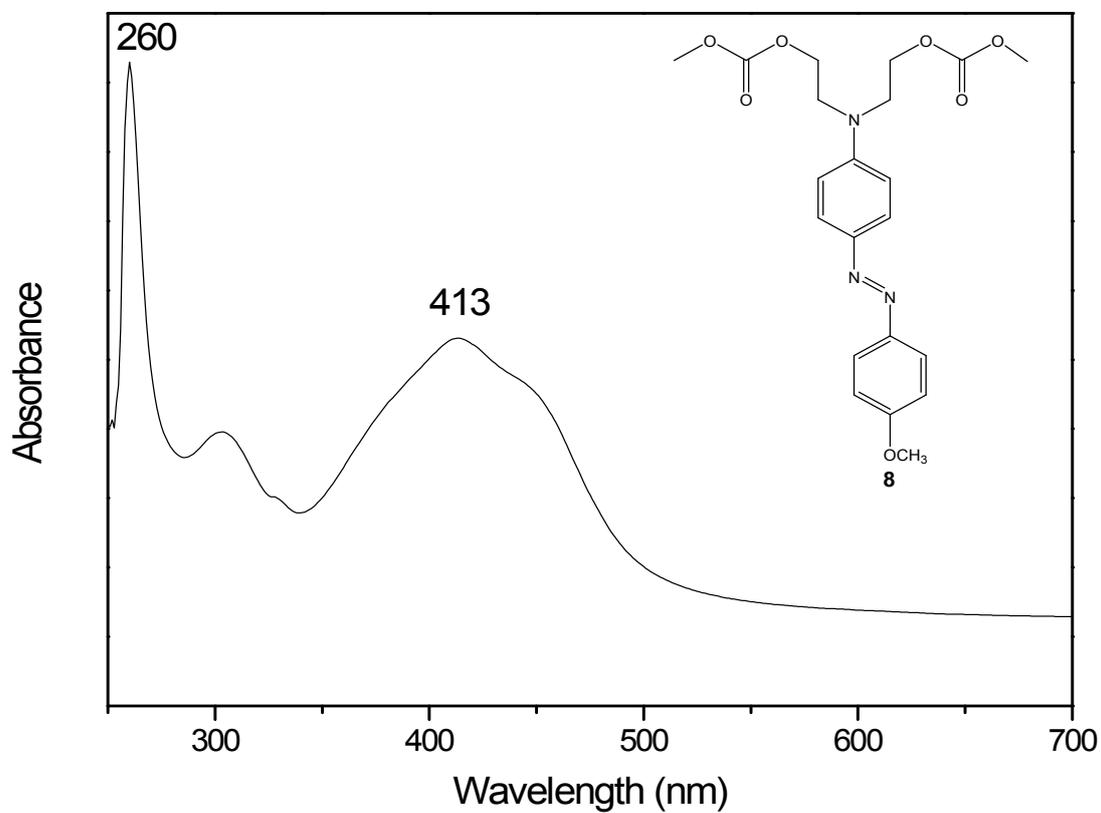
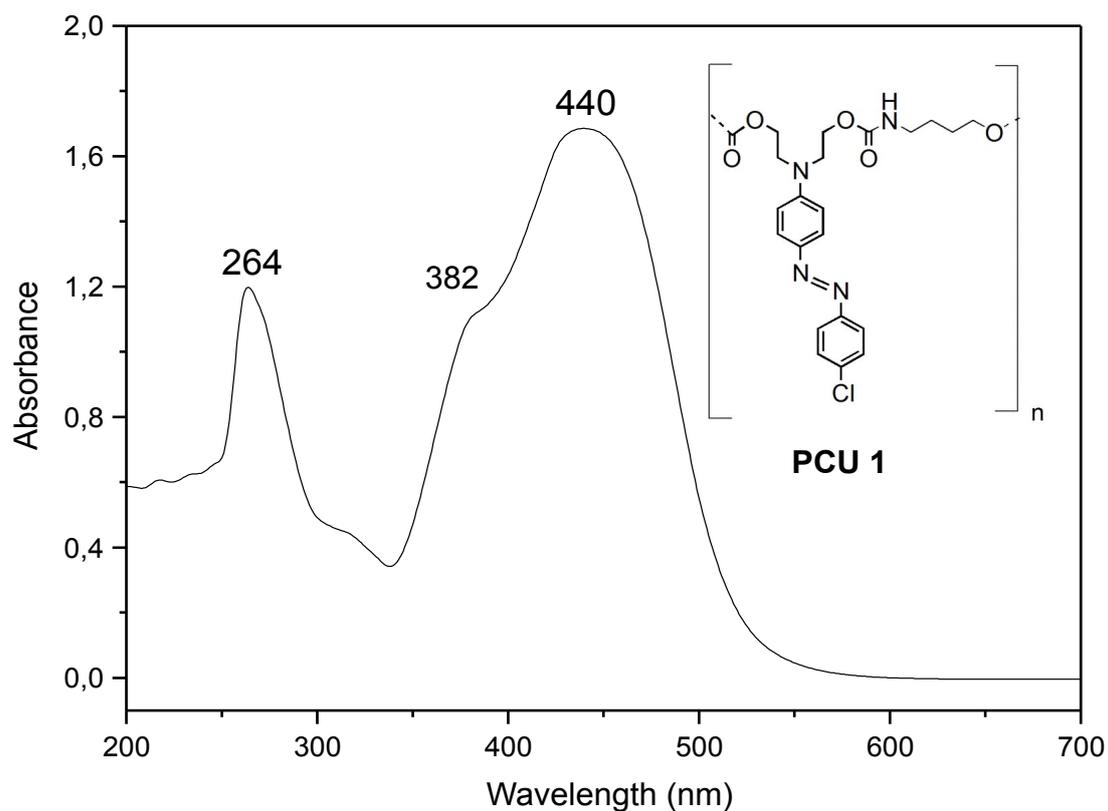
Figure 69. UV-Vis spectrum of compound 7 in DMSO.**Figure 70.** UV-Vis spectrum of compound 8 in DMSO.

Figure 71. UV-Vis spectrum of PCU 1 in DMSO.**Figure 72.** UV-Vis spectrum of PCU 2 in DMSO.