

3-Arylisoxazolyl-5-Carboxylic Acid and 5-(Hydroxymethyl)-3-Aryl-2-Isoxazoline as Molecular Platforms for Liquid-crystalline Materials

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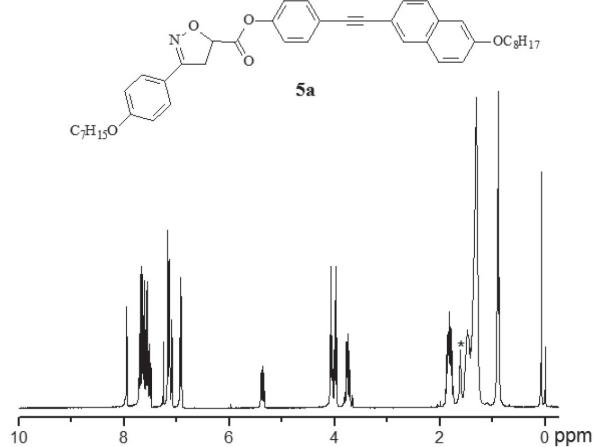


Figure S1. ¹H NMR spectrum of compound **5a** (CDCl₃, 300 MHz).
 *Solvent impurity.

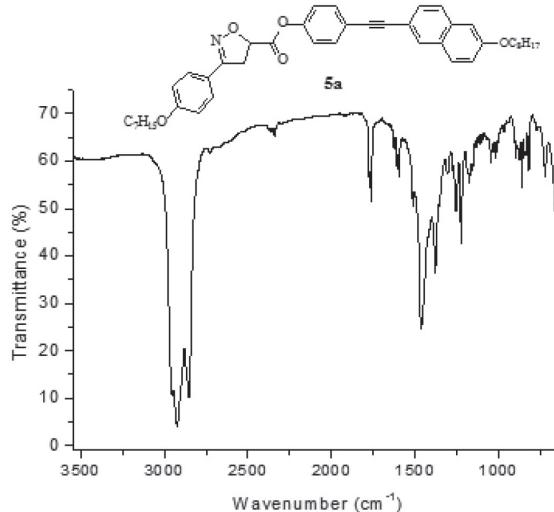


Figure S3. FT-IR spectrum of compound **5a** (nujol).

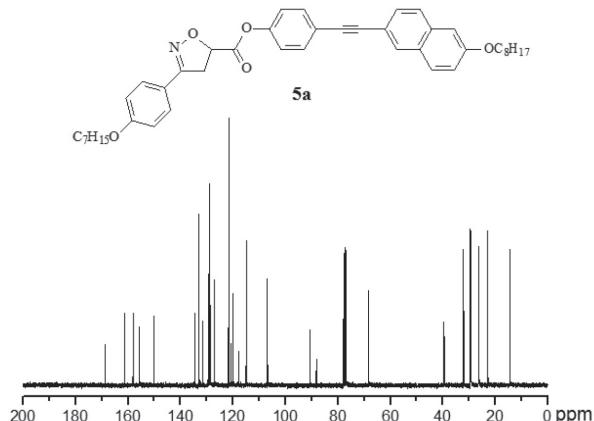


Figure S2. ¹³C NMR spectrum of compound **5a** (CDCl₃, 75 MHz).

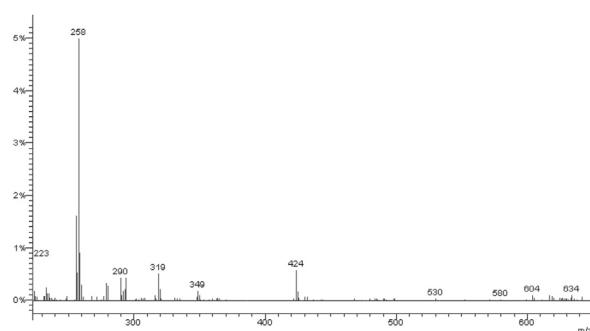


Figure S4. Mass spectra (EI-MS) of compound **5a**.

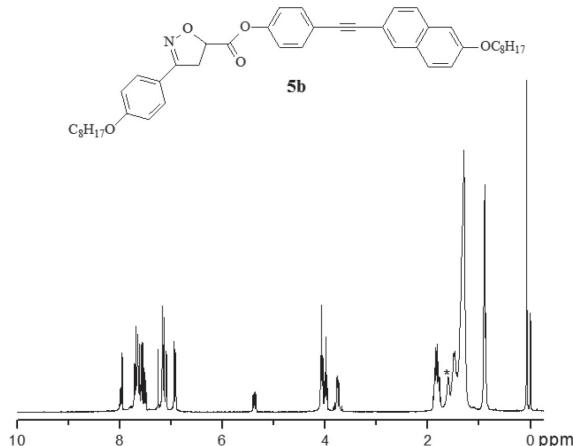


Figure S5. ¹H NMR spectrum of compound **5b** (CDCl_3 , 300 MHz).
*Solvent impurity.

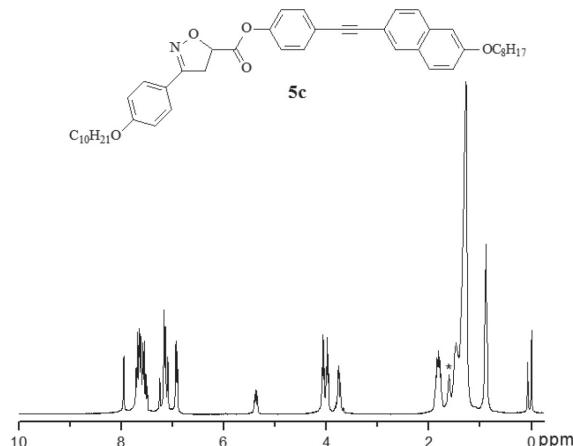


Figure S8. ¹H NMR spectrum of compound **5c** (CDCl_3 , 300 MHz).
*Solvent impurity.

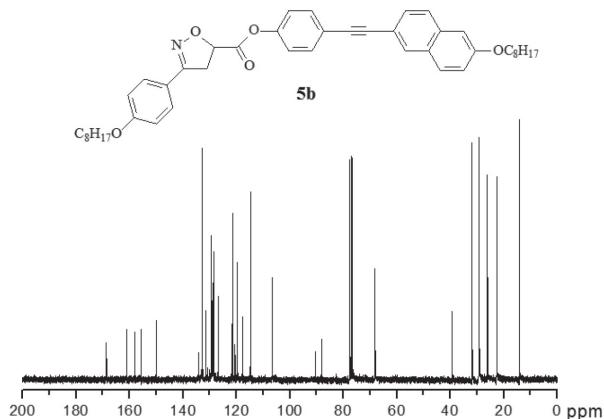


Figure S6. ¹³C NMR spectrum of compound **5b** (CDCl_3 , 75 MHz).

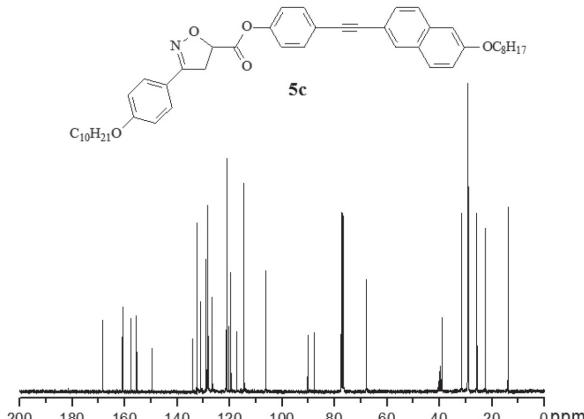


Figure S9. ¹³C NMR spectrum of compound **5c** ($\text{CDCl}_3/\text{DMSO-d}_6$, 75 MHz).

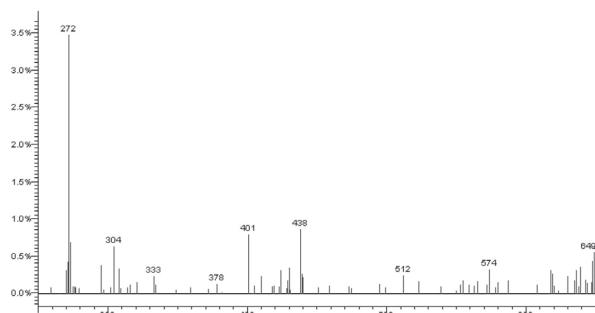


Figure S7. Mass spectra (EI-MS) of compound **5b**.

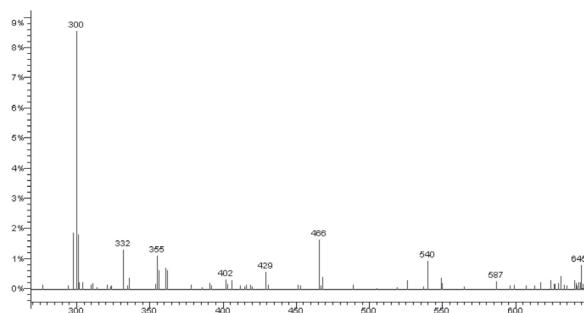


Figure S10. Mass spectra (EI-MS) of compound **5c**.

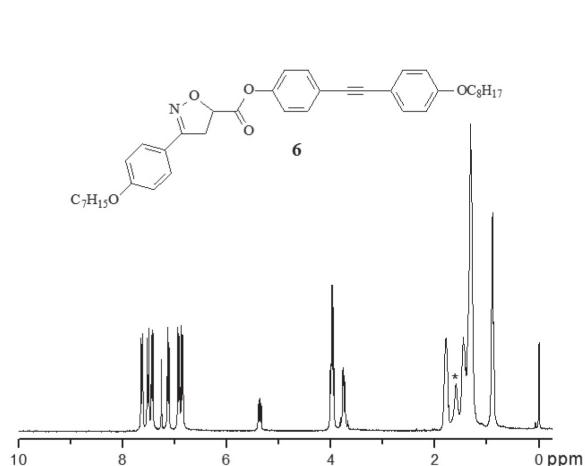


Figure S11. ^1H NMR spectrum of compound **6** (CDCl_3 , 300 MHz).
*Solvent impurity.

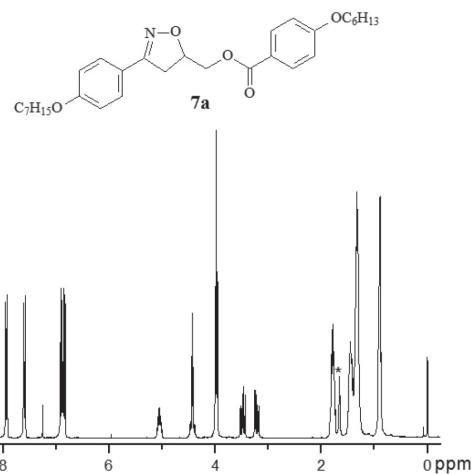


Figure S14. ^1H NMR spectrum of compound **7a** (CDCl_3 , 300 MHz).
*Solvent impurity

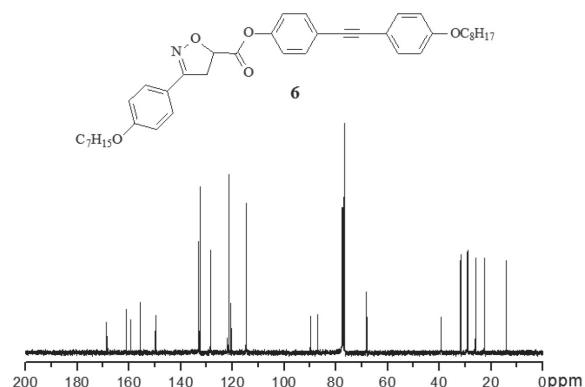


Figure S12. ^{13}C NMR spectrum of compound **6** (CDCl_3 , 75 MHz).

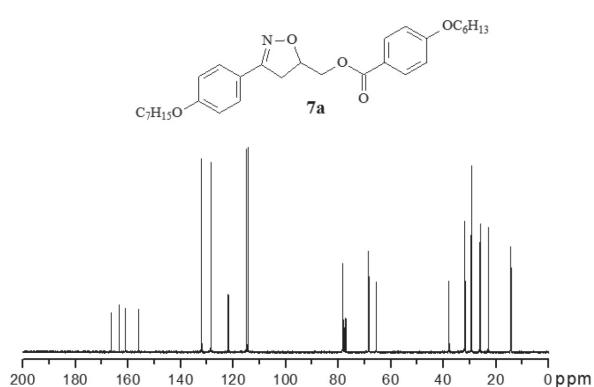


Figure S15. ^{13}C NMR spectrum of compound **7a** (CDCl_3 , 75 MHz).

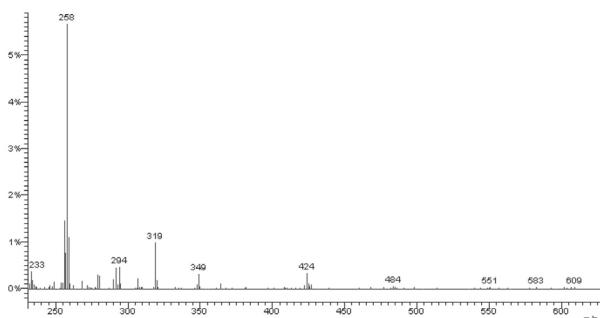


Figure S13. Mass spectra (EI-MS) of compound **6**.

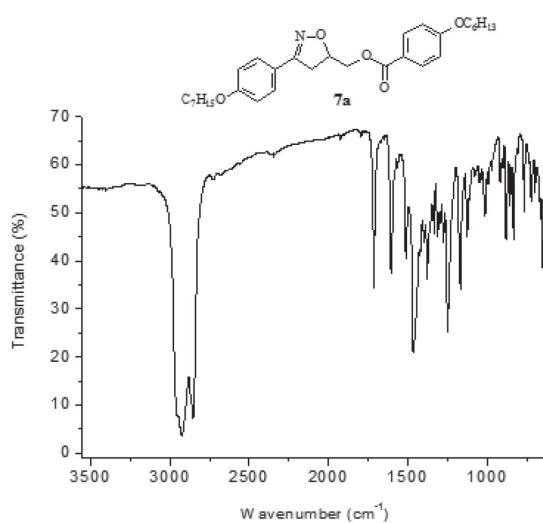


Figure S16. FT-IR spectrum of compound **7a** (nujol).

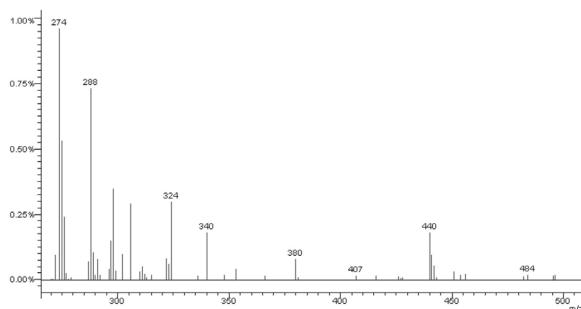


Figure S17. Mass spectra (EI-MS) of compound 7a.

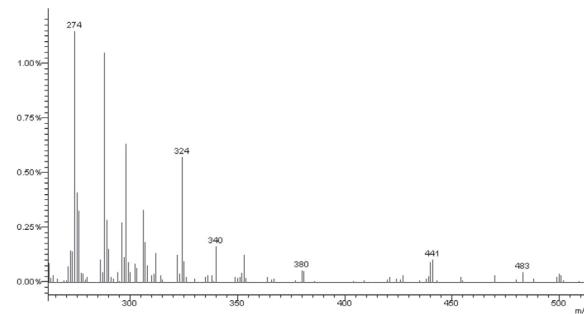


Figure S20. Mass spectra (EI-MS) of compound 7b.

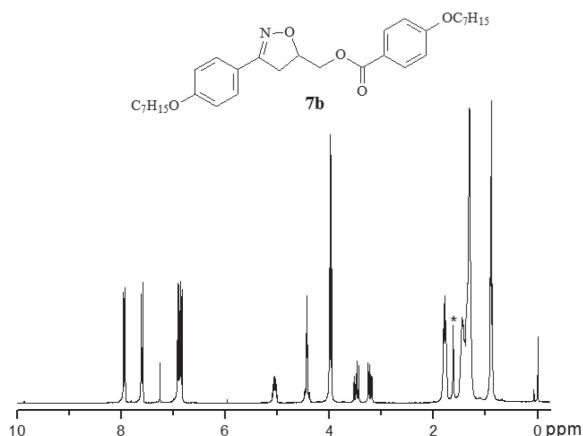


Figure S18. ^1H NMR spectrum of compound 7b (CDCl_3 , 300 MHz).
*Solvent impurity.

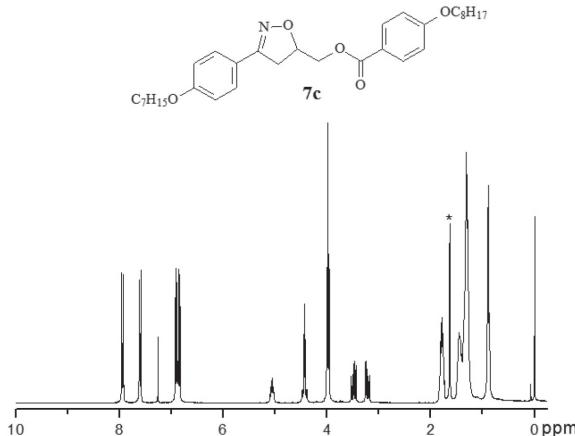


Figure S21. ^1H NMR spectrum of compound 7c (CDCl_3 , 300 MHz).
*Solvent impurity.

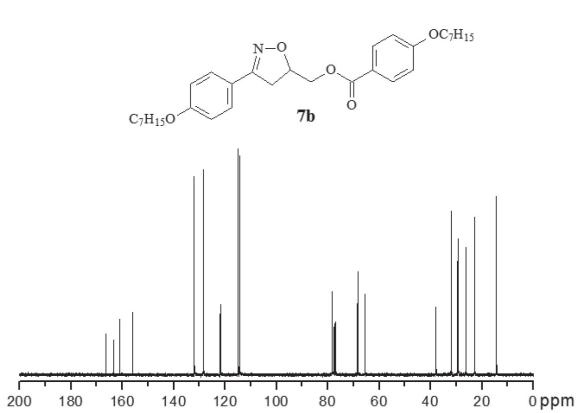


Figure S19. ^{13}C NMR spectrum of compound 7b (CDCl_3 , 75 MHz).

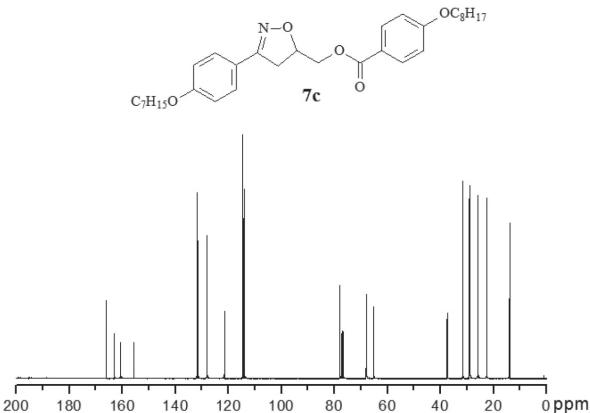
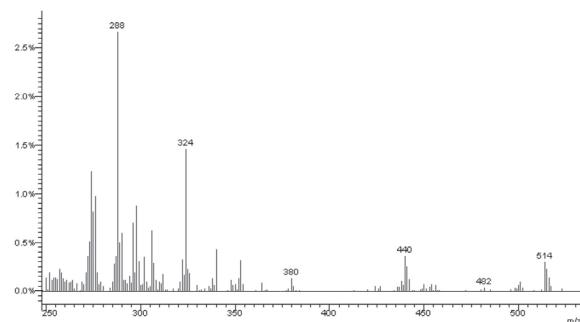
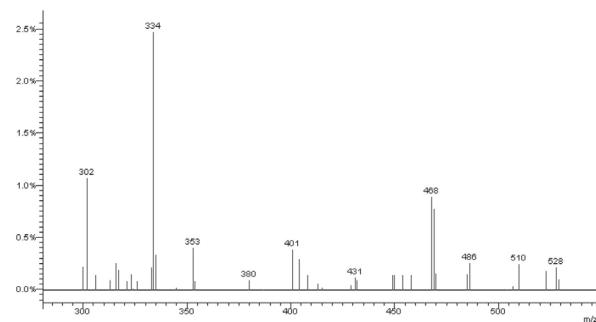
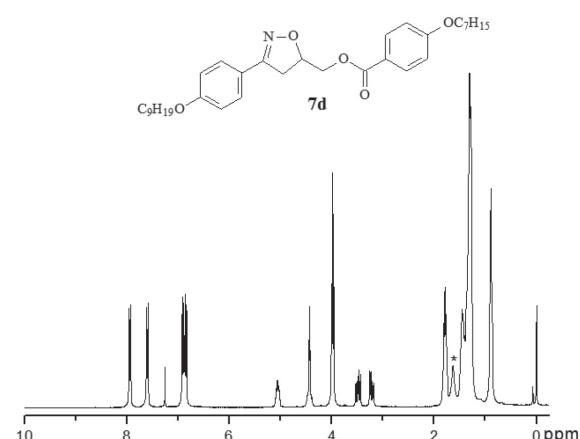
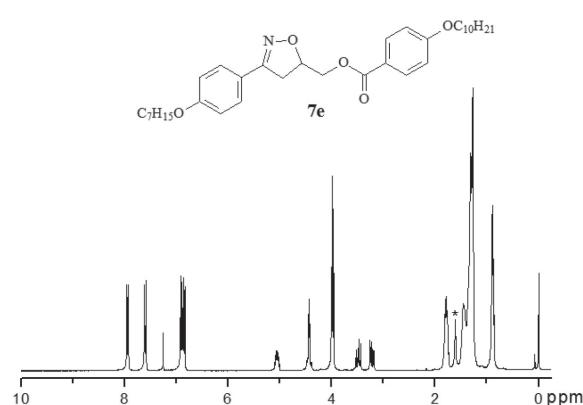
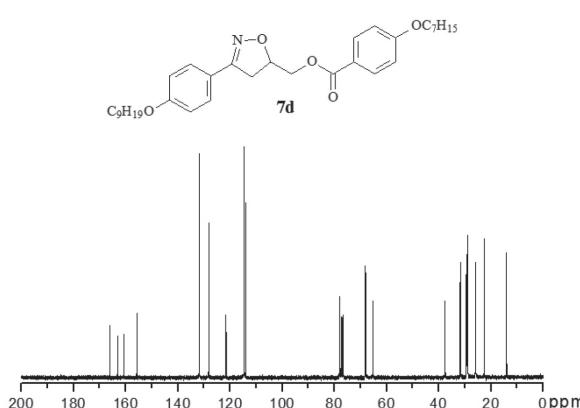
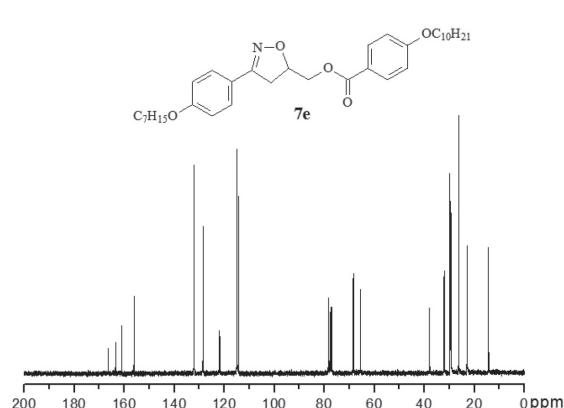


Figure S22. ^{13}C NMR spectrum of compound 7c (CDCl_3 , 75 MHz).

**Figure S23.** Mass spectra (EI-MS) of compound **7c**.**Figure S26.** Mass spectra (EI-MS) of compound **7d**.**Figure S24.** ^1H NMR spectrum of compound **7d** (CDCl_3 , 300 MHz).
*Solvent impurity.**Figure S27.** ^1H NMR spectrum of compound **7e** (CDCl_3 , 300 MHz).
*Solvent impurity.**Figure S25.** ^{13}C NMR spectrum of compound **7d** (CDCl_3 , 75 MHz).**Figure S28.** ^{13}C NMR spectrum of compound **7e** (CDCl_3 , 75 MHz).

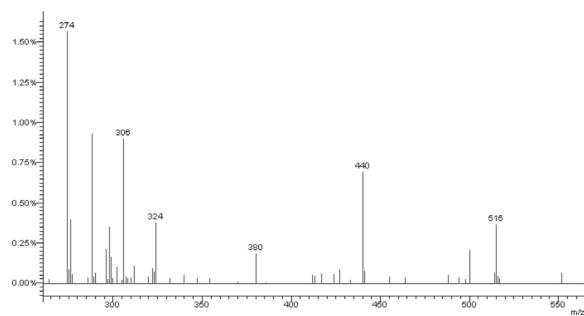


Figure S29. Mass spectra (EI-MS) of compound **7e**.

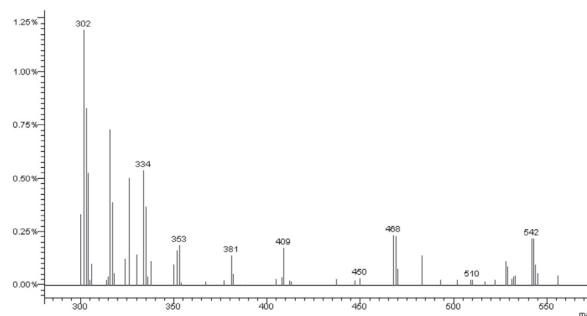


Figure S32. Mass spectra (EI-MS) of compound **7f**.

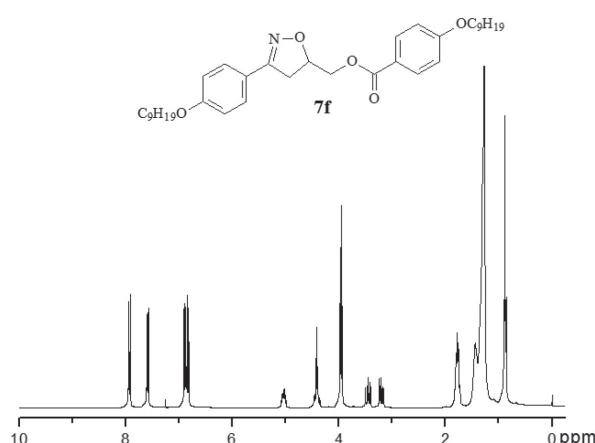


Figure S30. ^1H NMR spectrum of compound **7f** (CDCl_3 , 300 MHz).

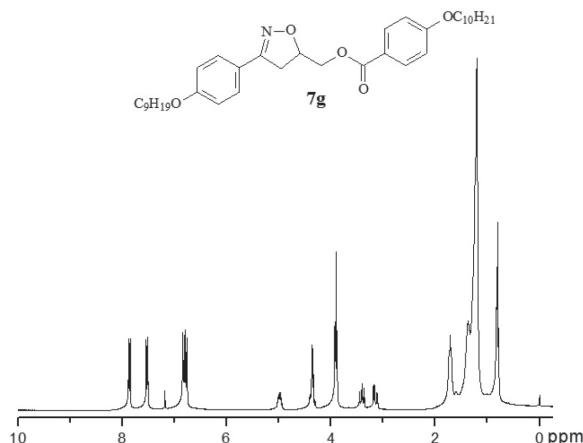


Figure S33. ^1H NMR spectrum of compound **7g** (CDCl_3 , 300 MHz).

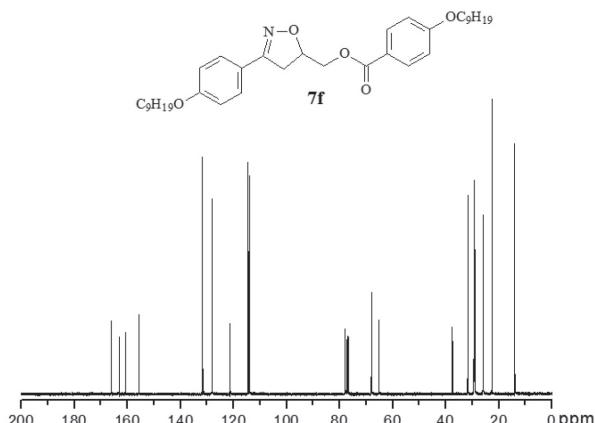


Figure S31. ^{13}C NMR spectrum of compound **7f** (CDCl_3 , 75 MHz).

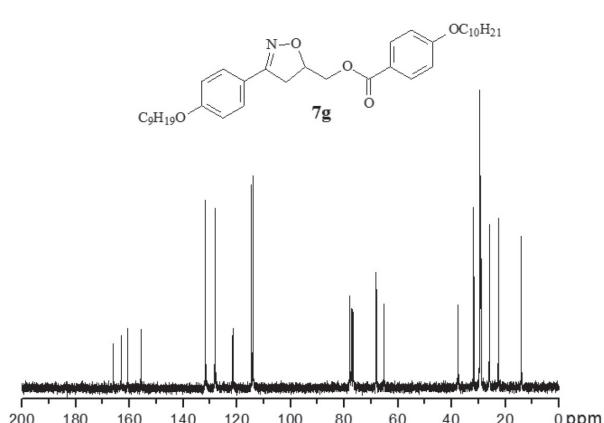
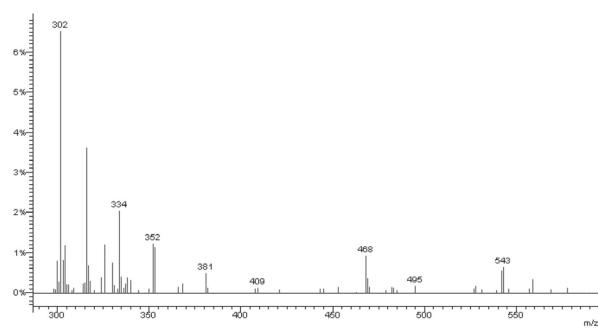
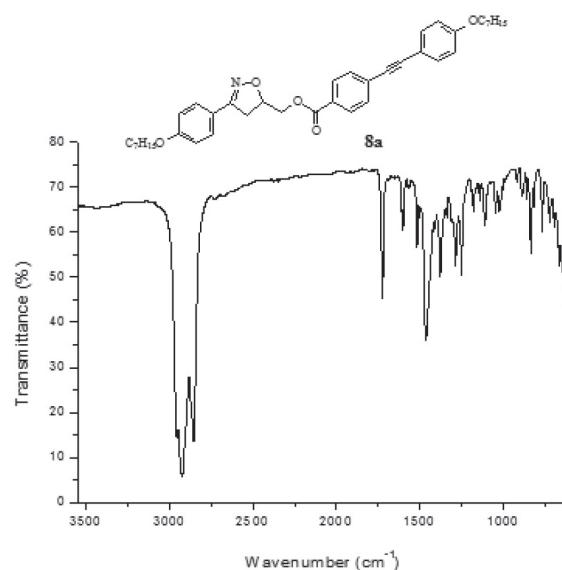
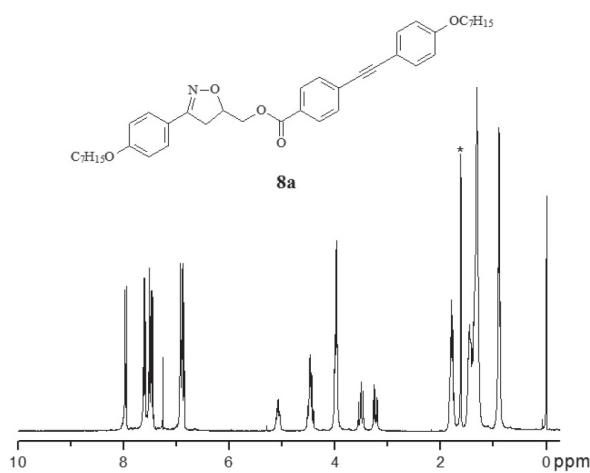
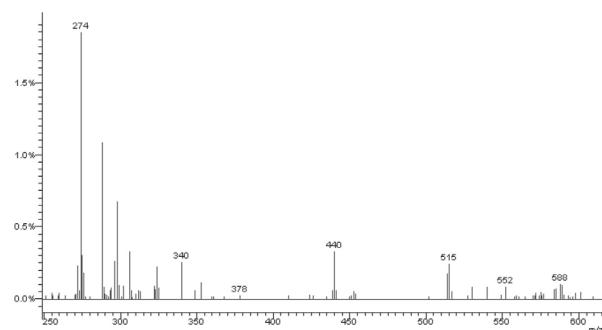
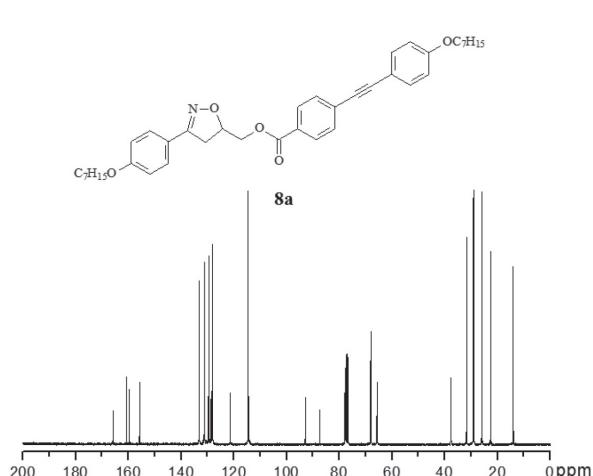
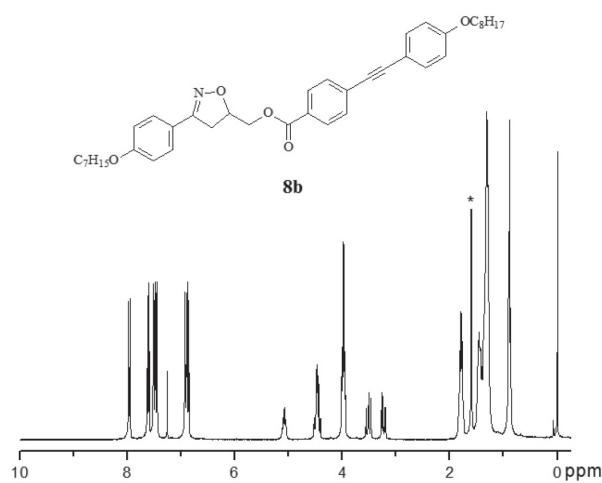


Figure S34. ^{13}C NMR spectrum of compound **7g** (CDCl_3 , 75 MHz).

**Figure S35.** Mass spectra (EI-MS) of compound **7g**.**Figure S38.** FT-IR spectrum of compound **8a** (nujol).**Figure S36.** ¹H NMR spectrum of compound **8a** (CDCl_3 , 300 MHz).
*Solvent impurity.**Figure S39.** Mass spectra (EI-MS) of compound **8a**.**Figure S37.** ¹³C NMR spectrum of compound **8a** (CDCl_3 , 75 MHz).**Figure S40.** ¹H NMR spectrum of compound **8b** (CDCl_3 , 300 MHz).
*Solvent impurity.

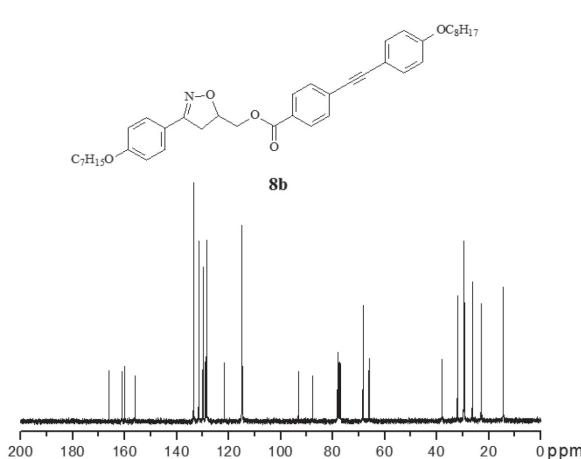


Figure S41. ¹³C NMR spectrum of compound **8b** (CDCl_3 , 75 MHz).

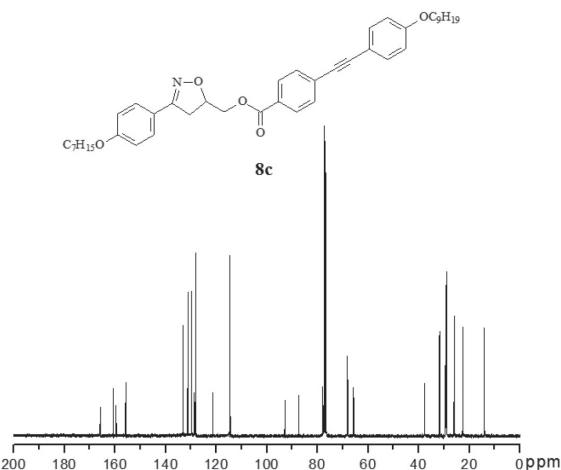


Figure S44. ¹³C NMR spectrum of compound **8c** (CDCl_3 , 75 MHz).

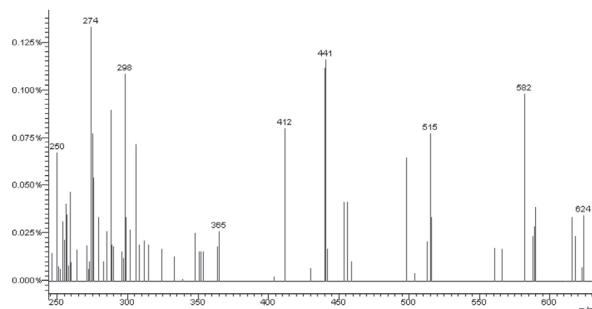


Figure S42. Mass spectra (EI-MS) of compound **8b**.

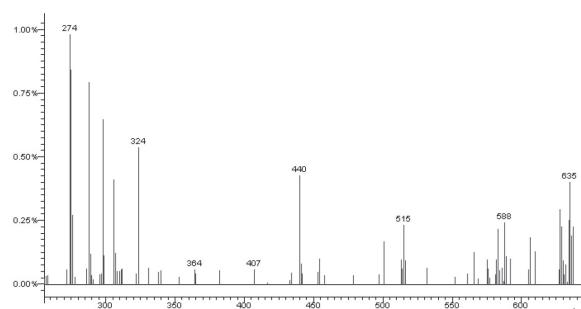


Figure S45. Mass spectra (EI-MS) of compound **8c**.

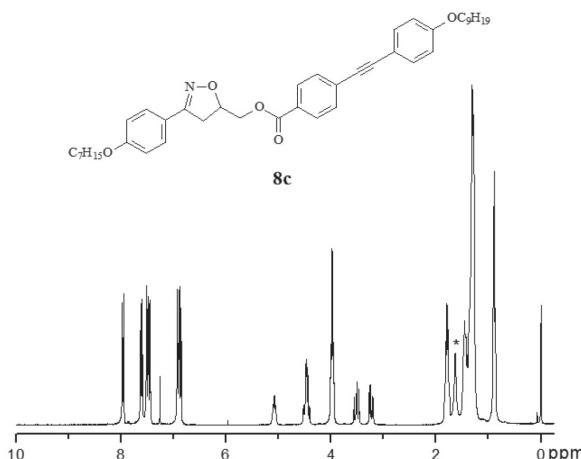


Figure S43. ¹H NMR spectrum of compound **8c** (CDCl_3 , 300 MHz).
*Solvent impurity.

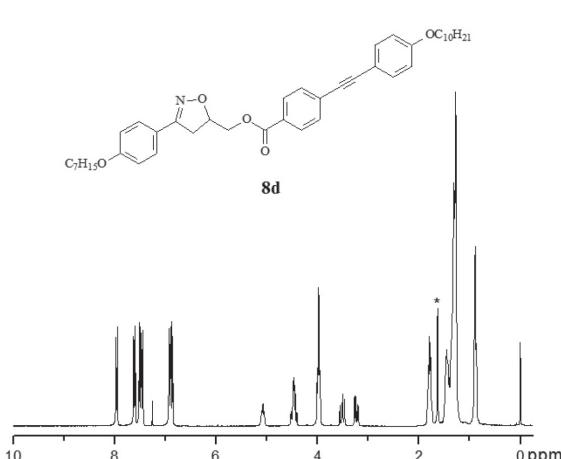


Figure S46. ¹H NMR spectrum of compound **8d** (CDCl_3 , 300 MHz).
*Solvent impurity.

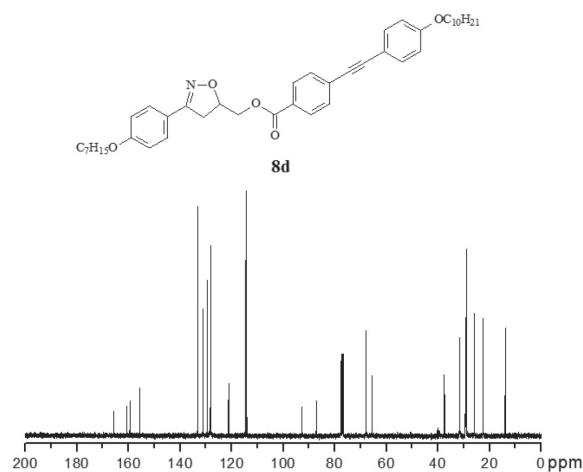


Figure S47. ^{13}C NMR spectrum of compound **8d** ($\text{CDCl}_3/\text{DMSO-d}_6$, 75 MHz).

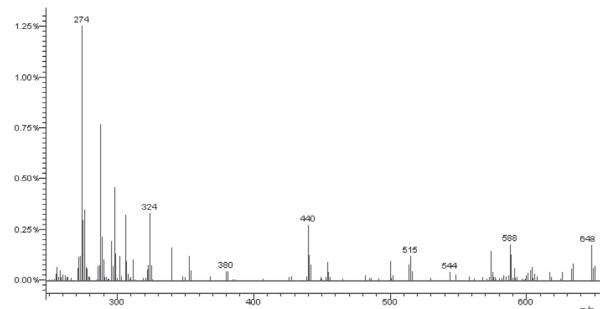


Figure S48. Mass spectra (EI-MS) of compound **8d**.