

# Supplementary Materials

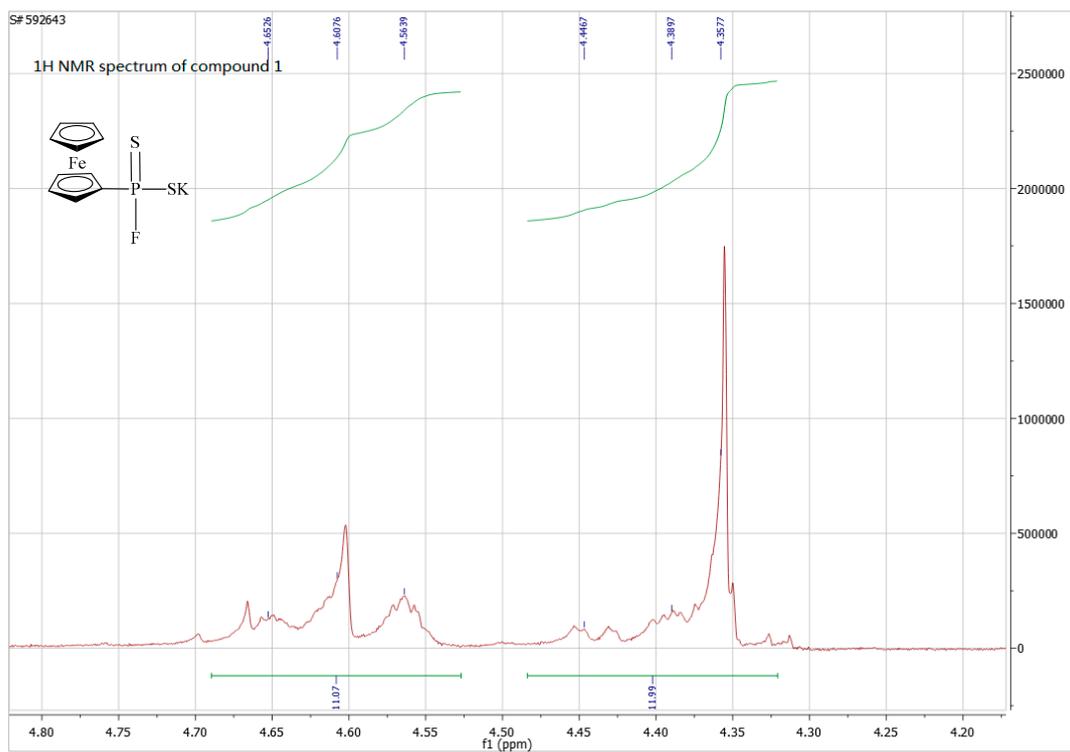


Figure S1. <sup>1</sup>H-NMR spectra of compound 1.

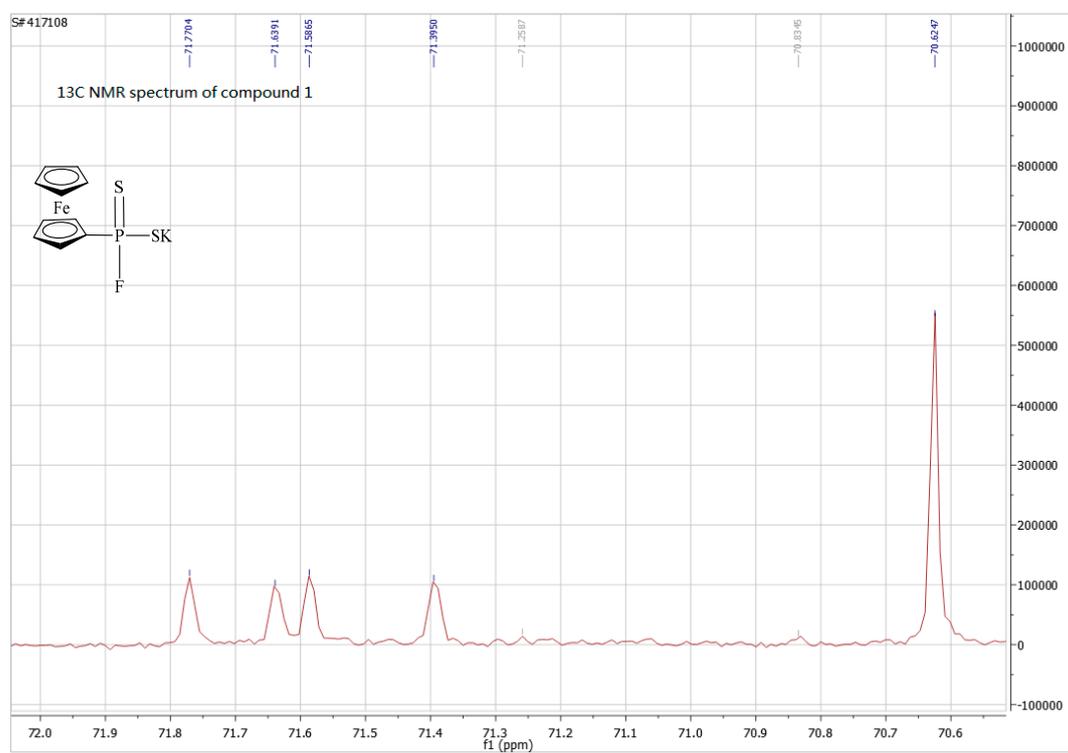


Figure S2. <sup>13</sup>C-NMR spectra of compound 1.

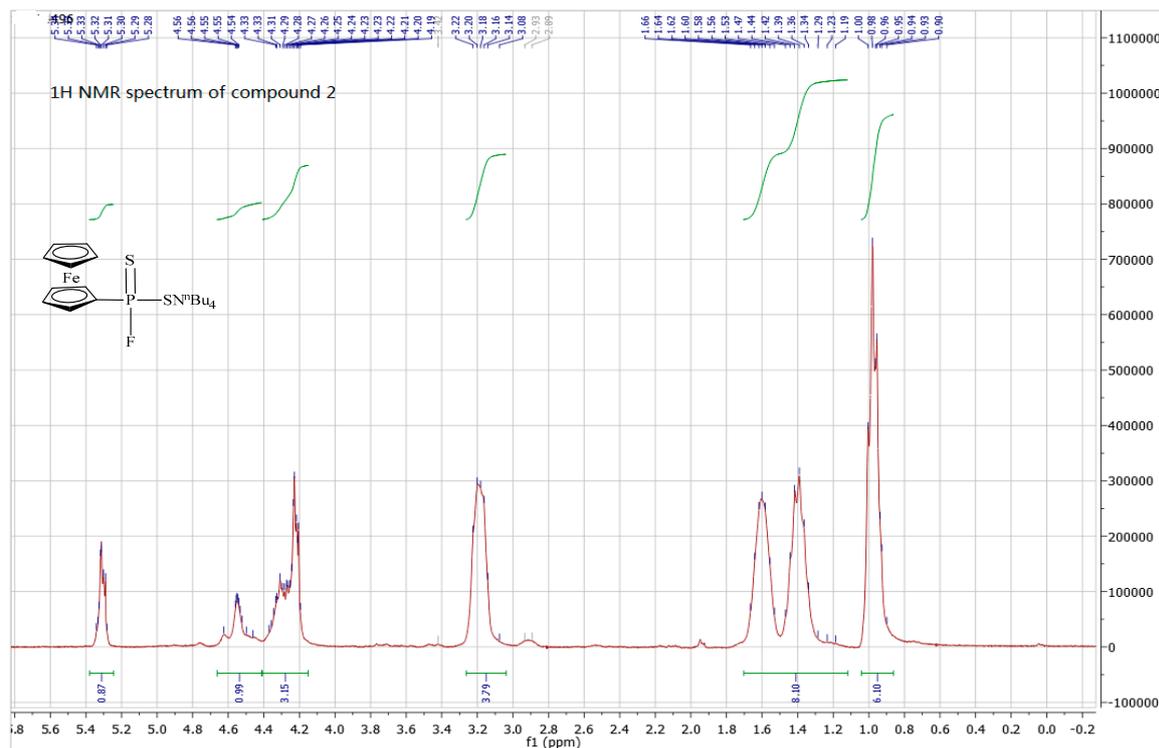


Figure S3. <sup>1</sup>H-NMR spectra of compound 2.

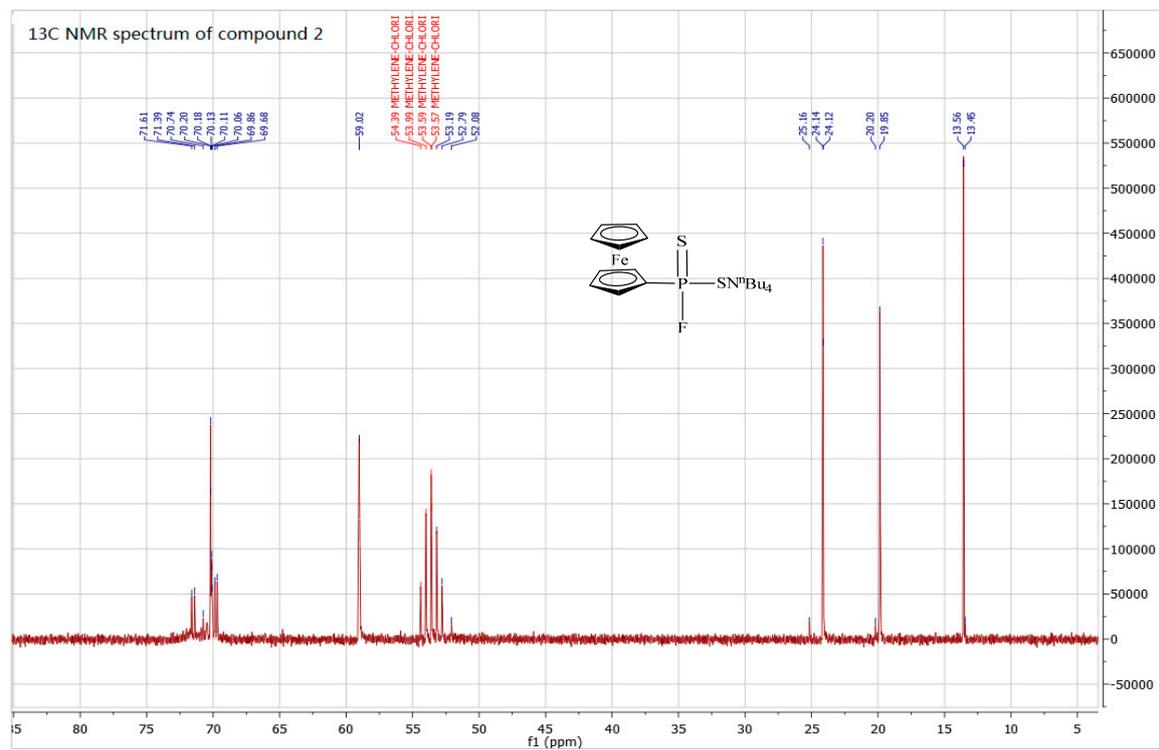


Figure S4. <sup>13</sup>C-NMR spectra of compound 2.

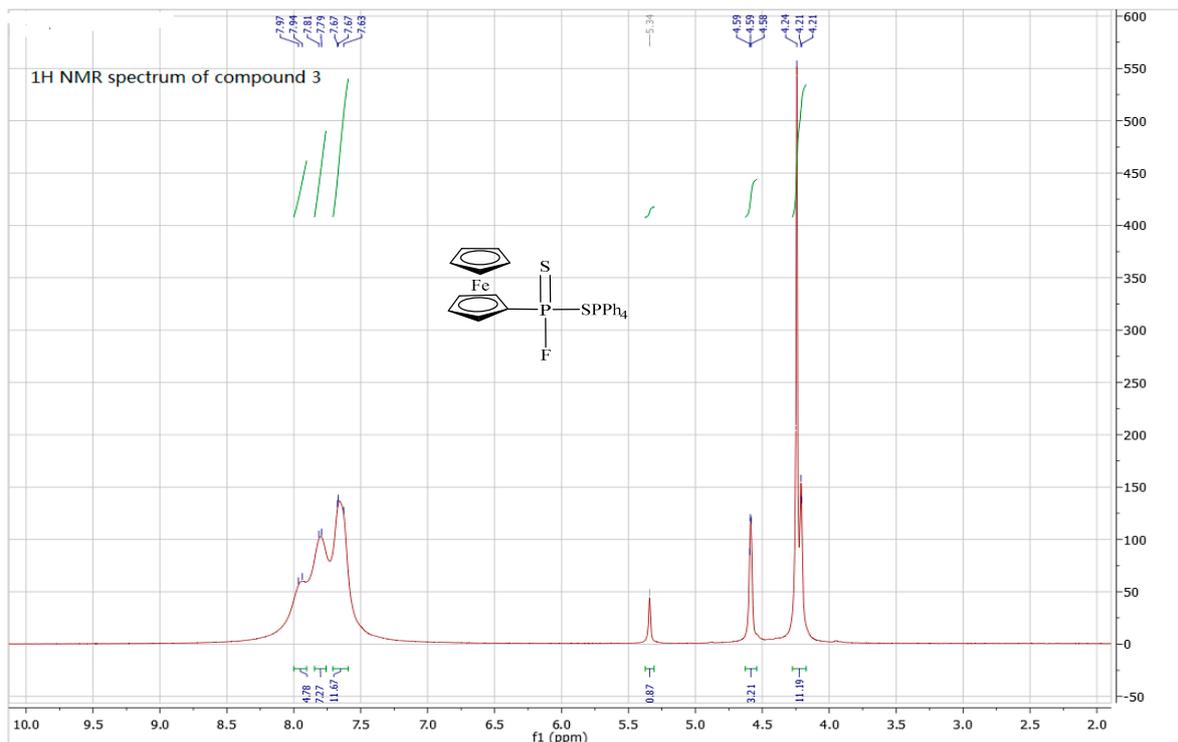


Figure S5.  $^1\text{H}$ -NMR spectra of compound 3.

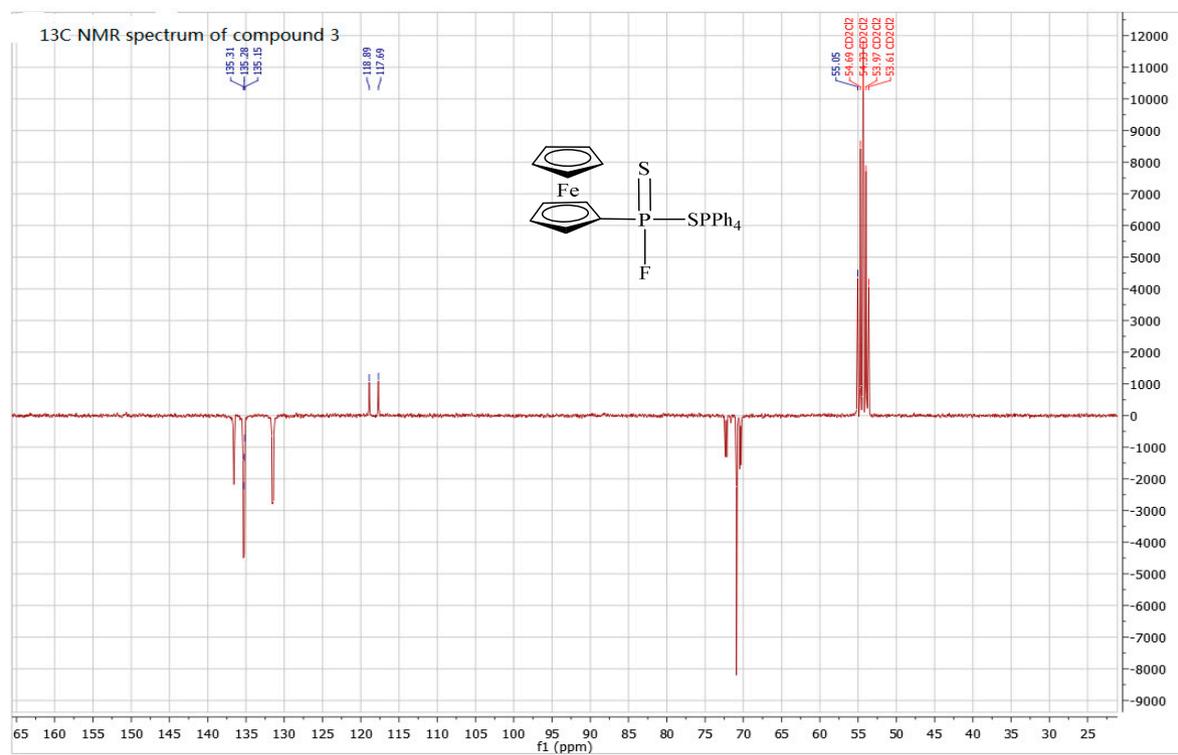


Figure S6.  $^{13}\text{C}$ -NMR spectra of compound 3.

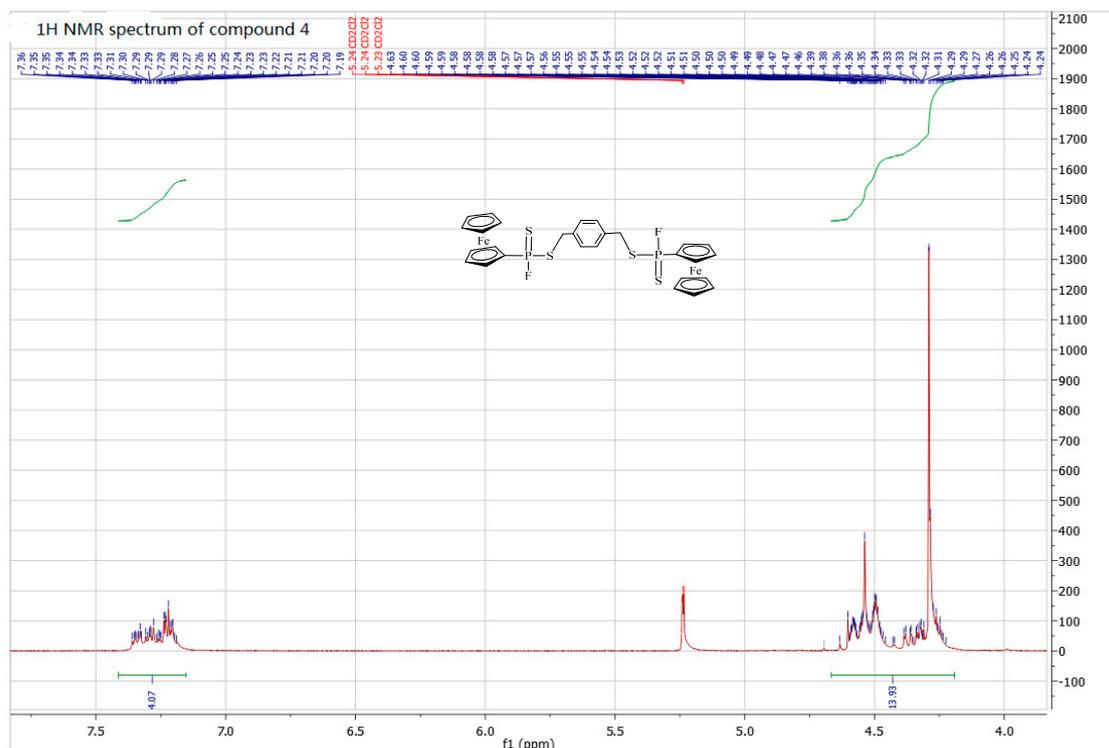


Figure S7.  $^1\text{H}$ -NMR spectra of compound 4.

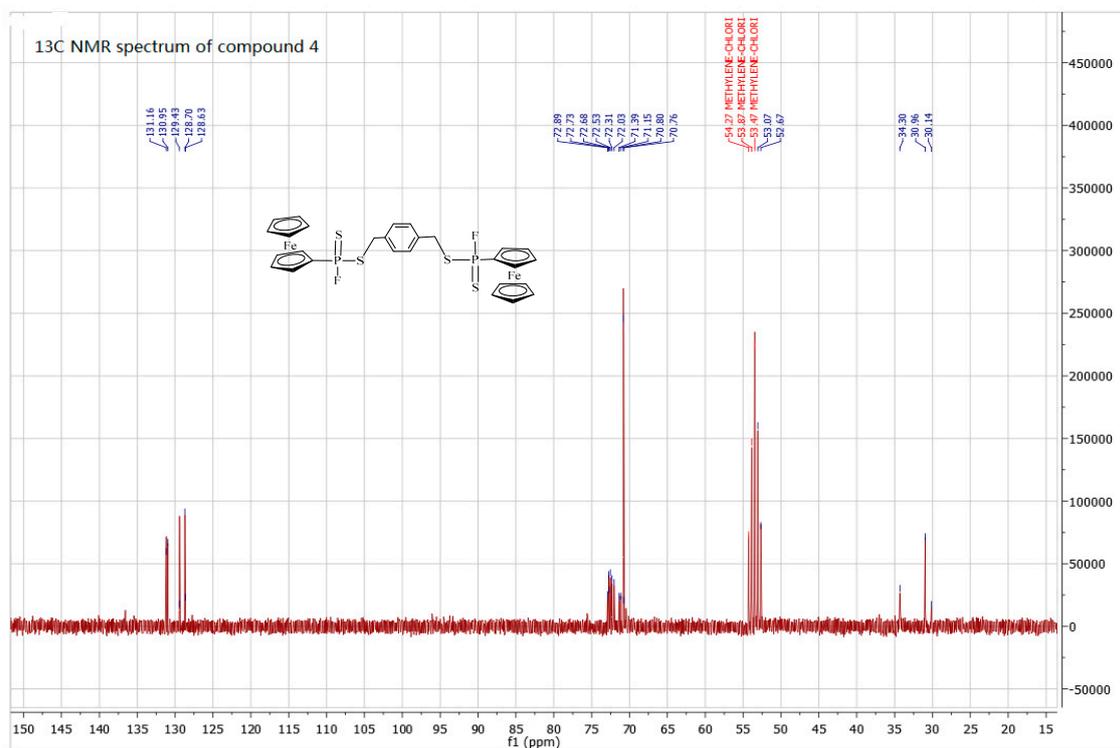


Figure S8.  $^{13}\text{C}$ -NMR spectra of compound 4.



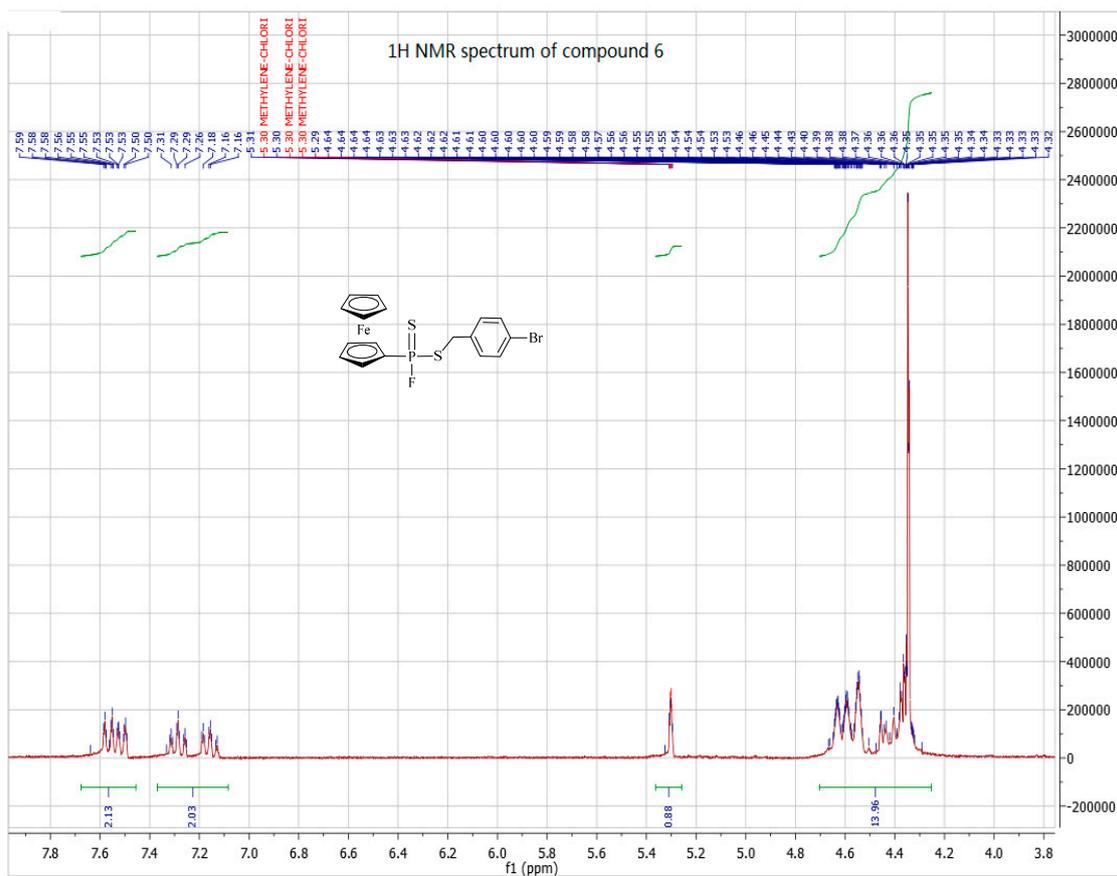


Figure S11. <sup>1</sup>H-NMR spectra of compound 6.

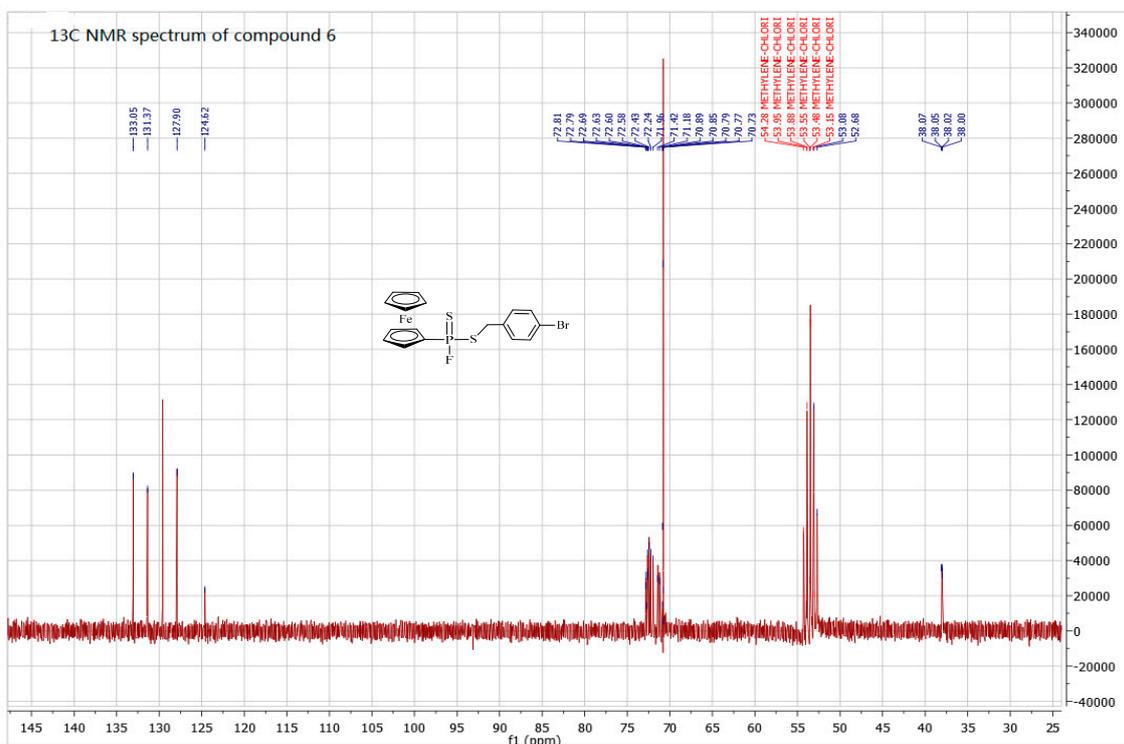
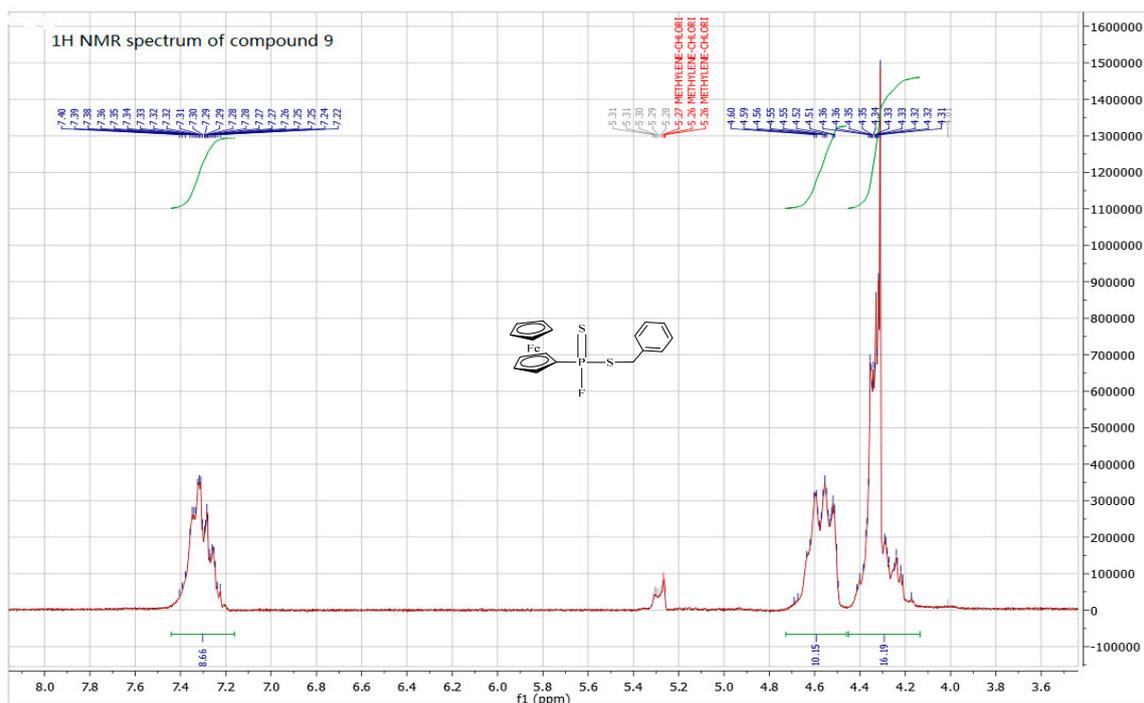


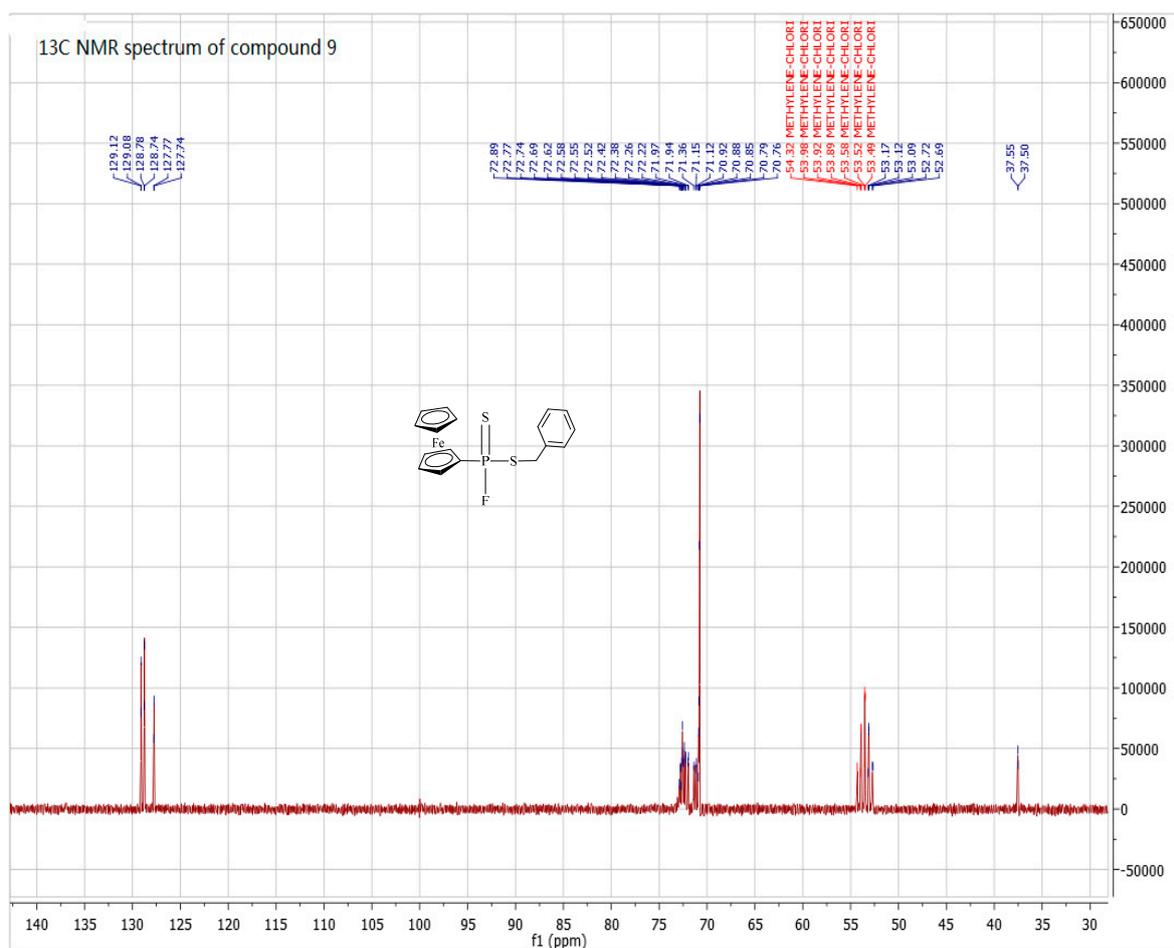
Figure S12. <sup>13</sup>C-NMR spectra of compound 6.







**Figure S17.** <sup>1</sup>H-NMR spectra of compound 9.



**Figure S18.** <sup>13</sup>C-NMR spectra of compound 9.

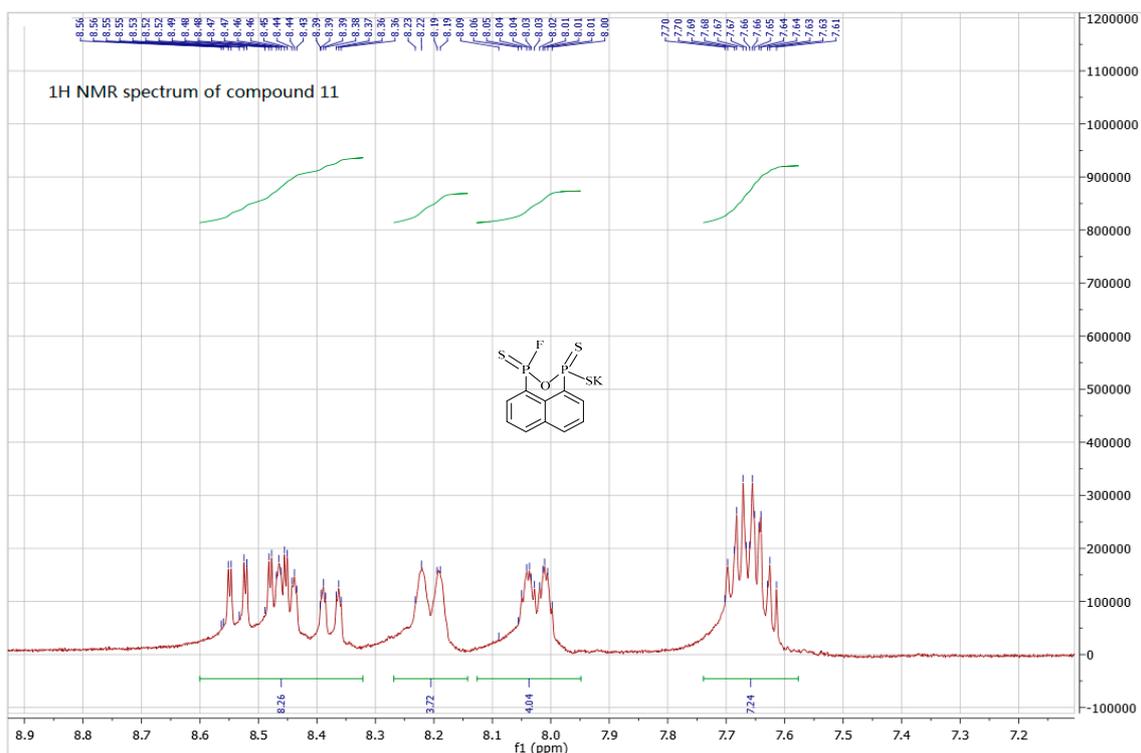


Figure S19. <sup>1</sup>H-NMR spectra of compound 11.

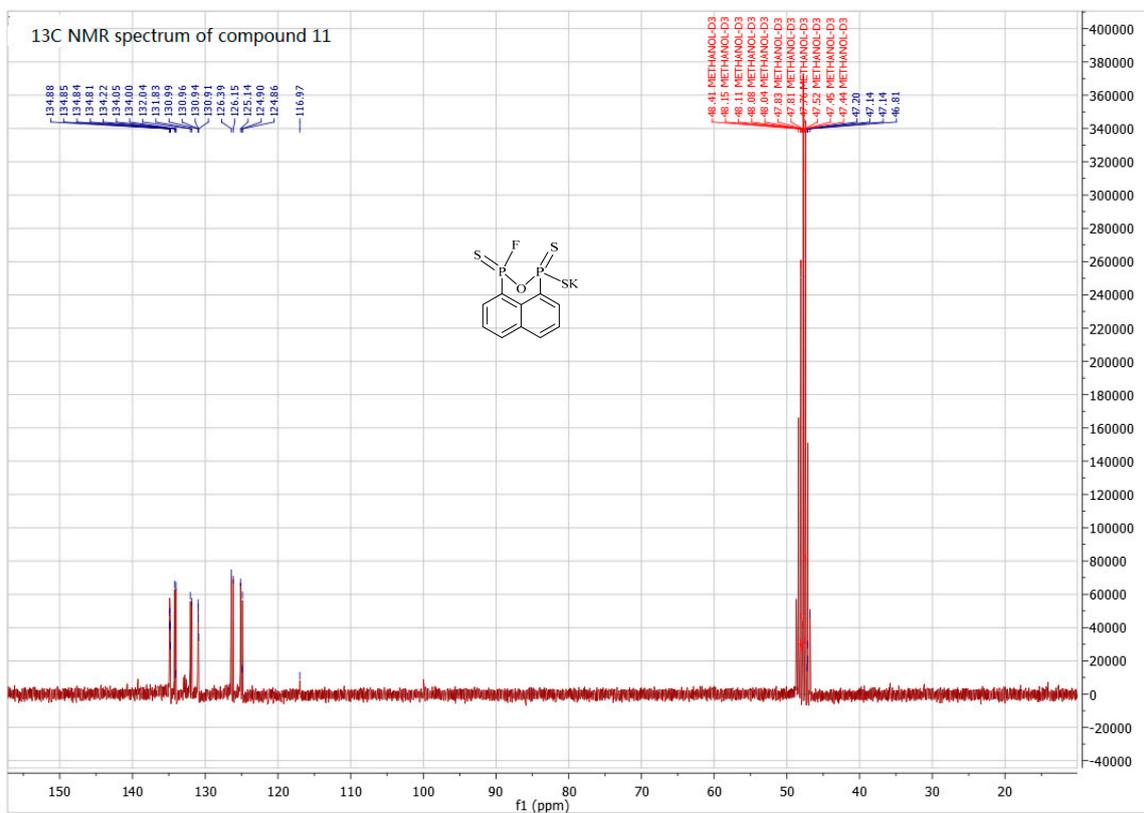
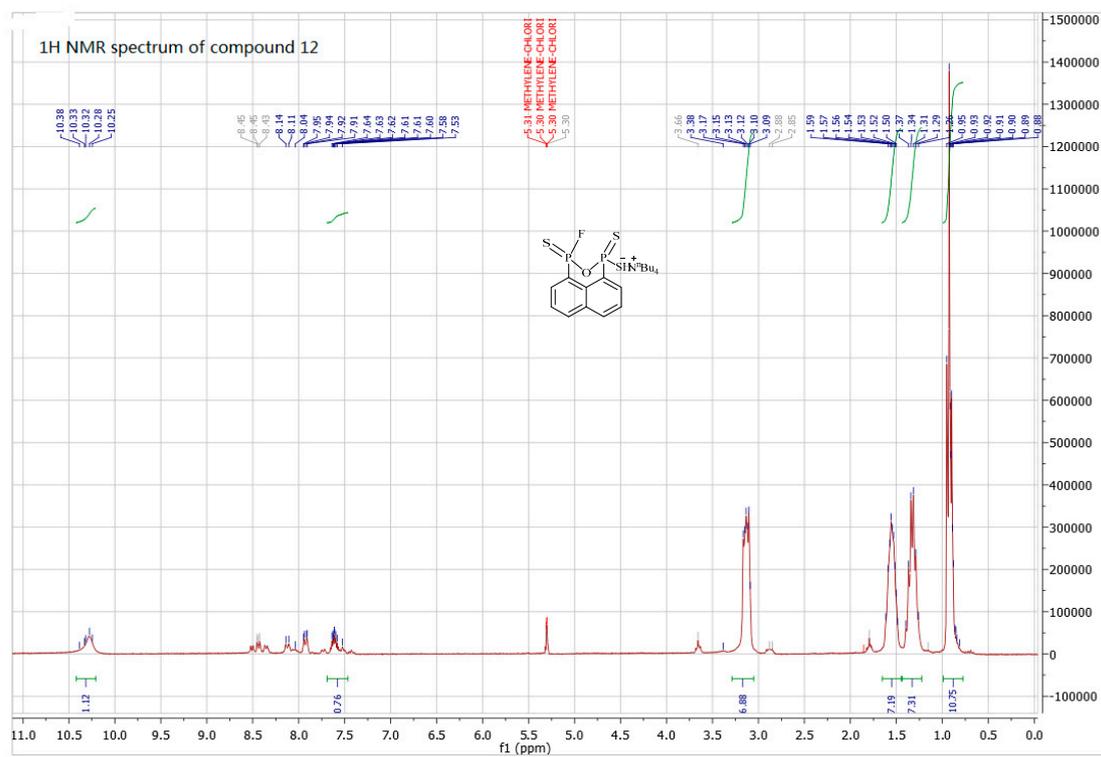
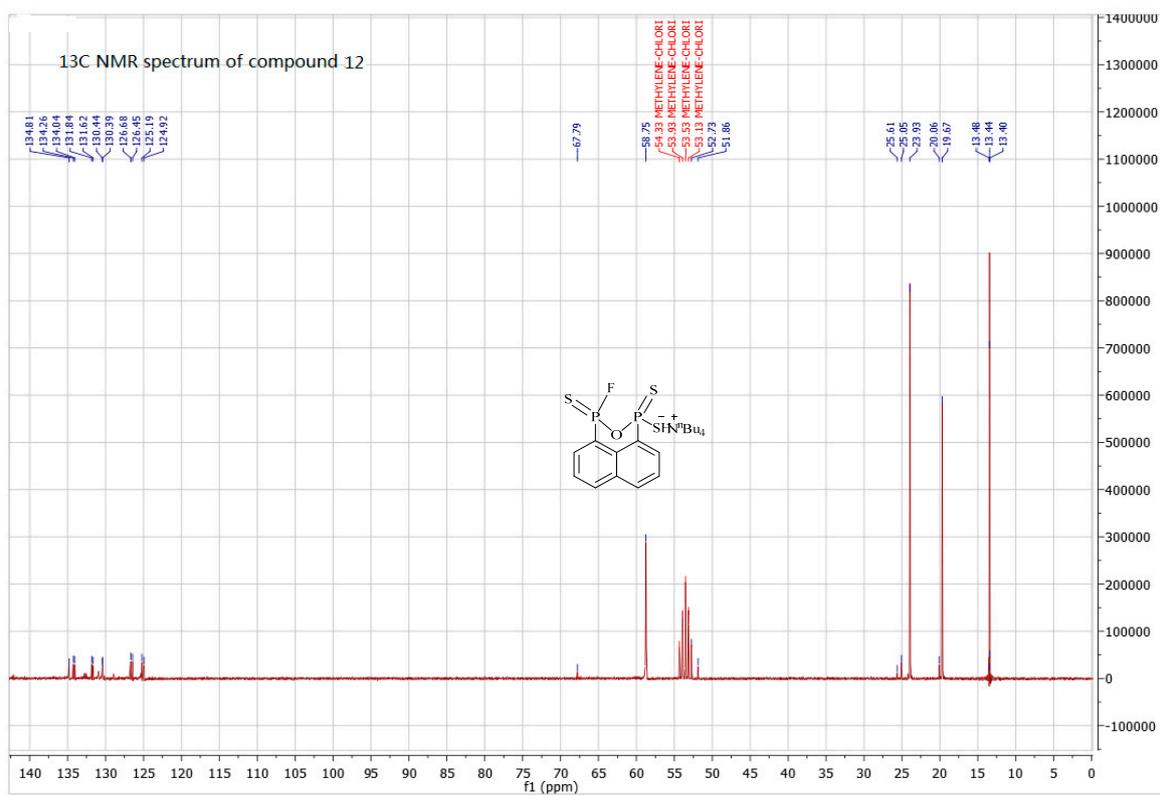


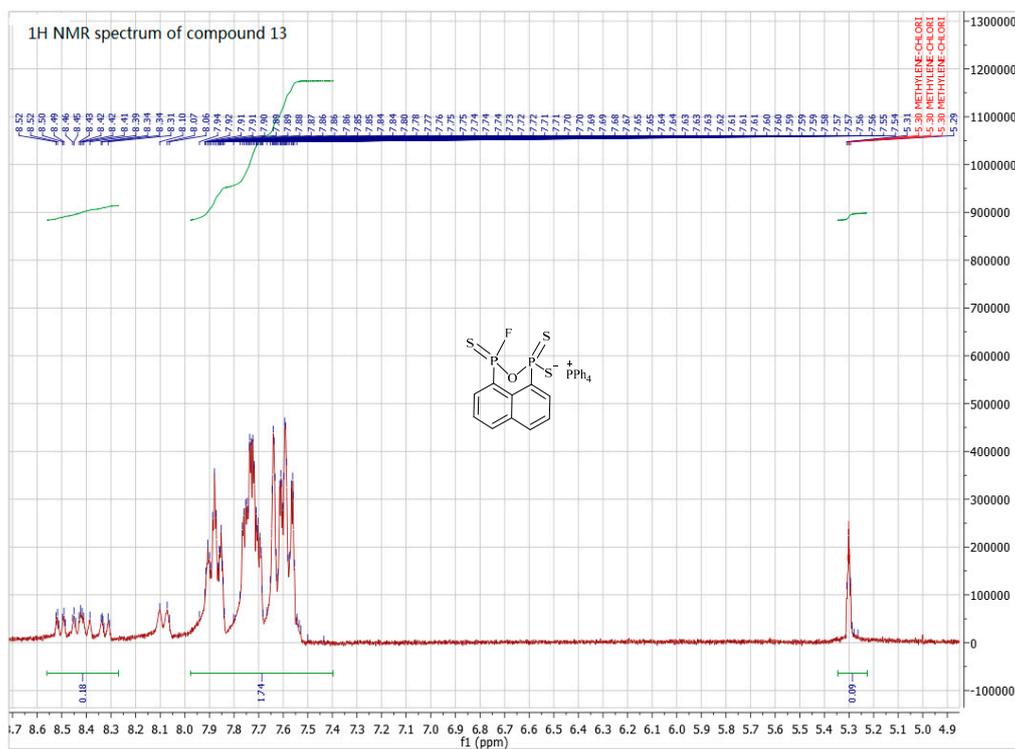
Figure S20. <sup>13</sup>C-NMR spectra of compound 11.



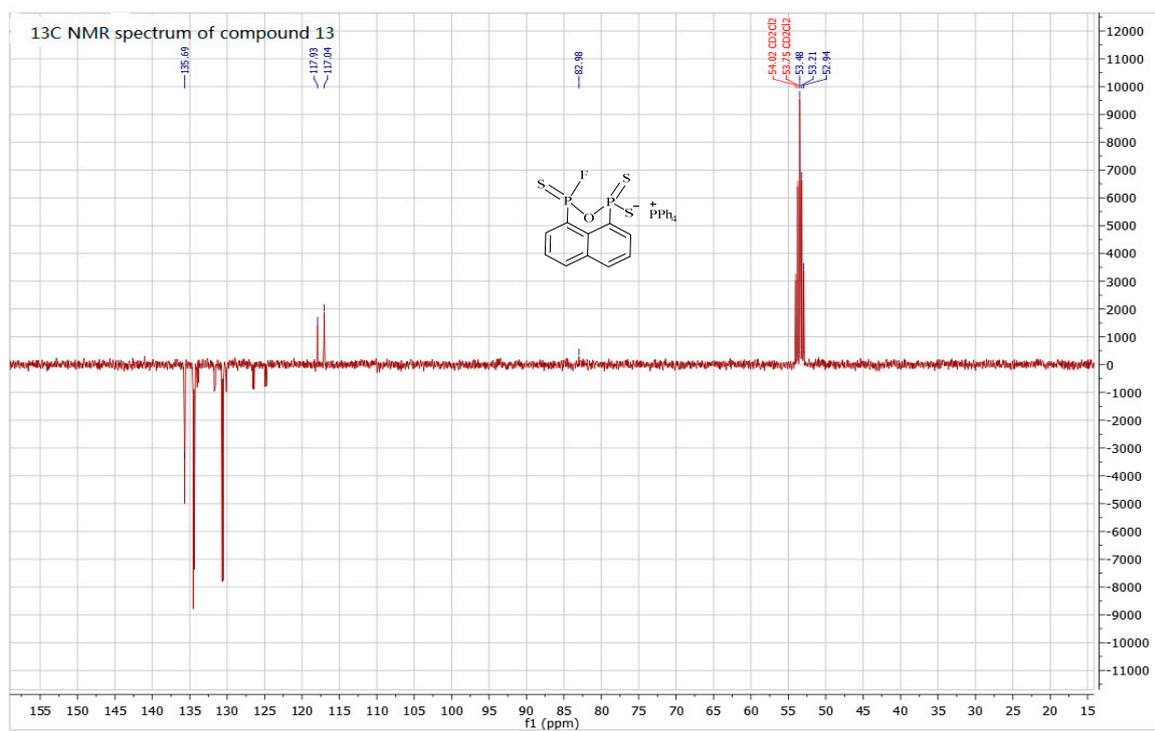
**Figure S21.** <sup>1</sup>H-NMR spectra of compound 12.



**Figure S22.** <sup>13</sup>C-NMR spectra of compound 12.

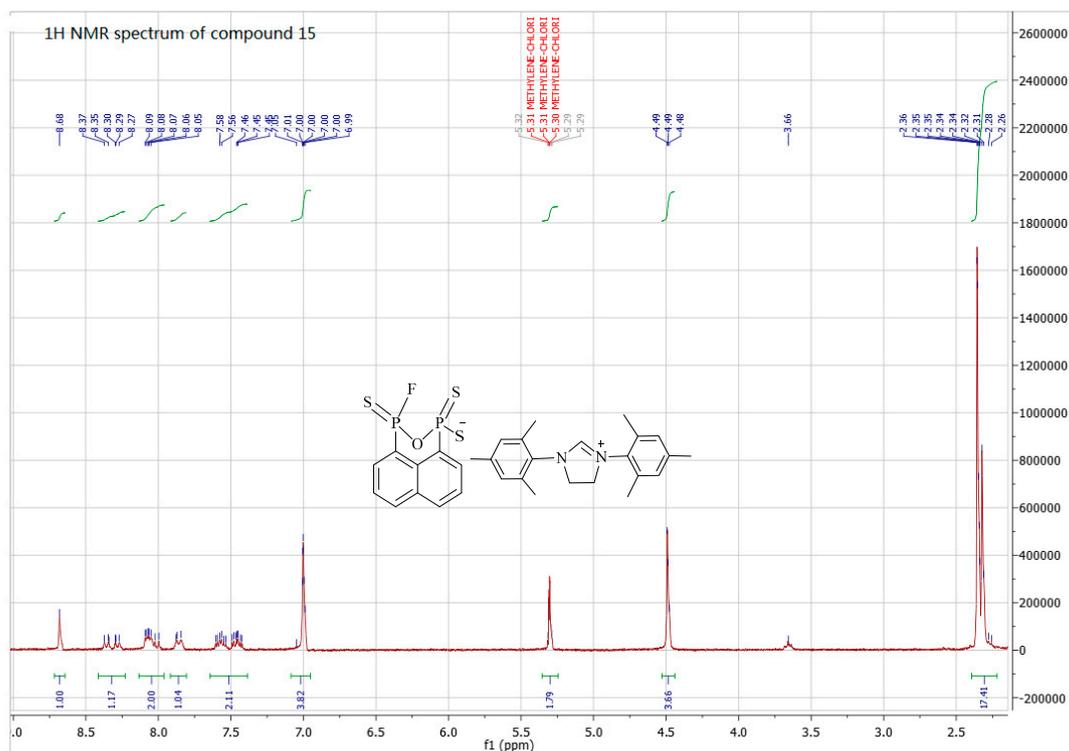


**Figure S23.** <sup>1</sup>H-NMR spectra of compound 13.

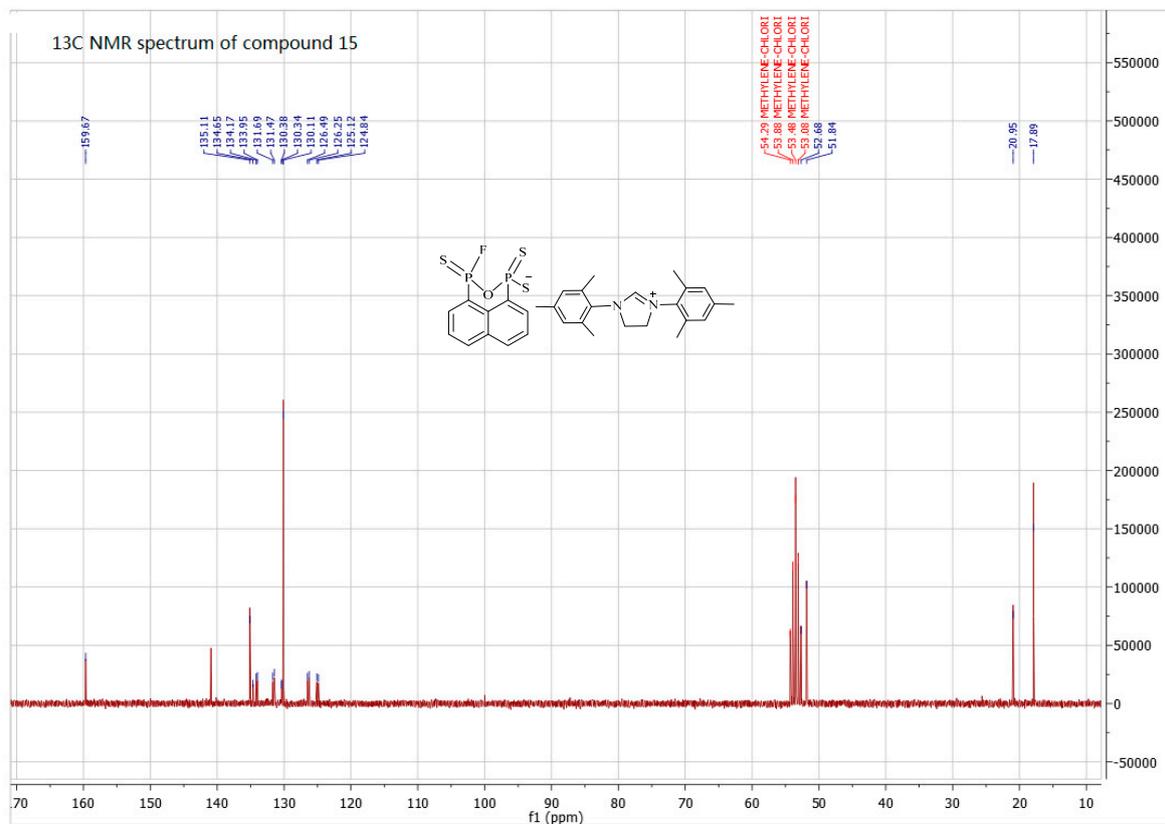


**Figure S24.** <sup>13</sup>C-NMR spectra of compound 13.





**Figure S27.** <sup>1</sup>H-NMR spectra of compound 15.



**Figure S28.** <sup>13</sup>C-NMR spectra of compound 15.

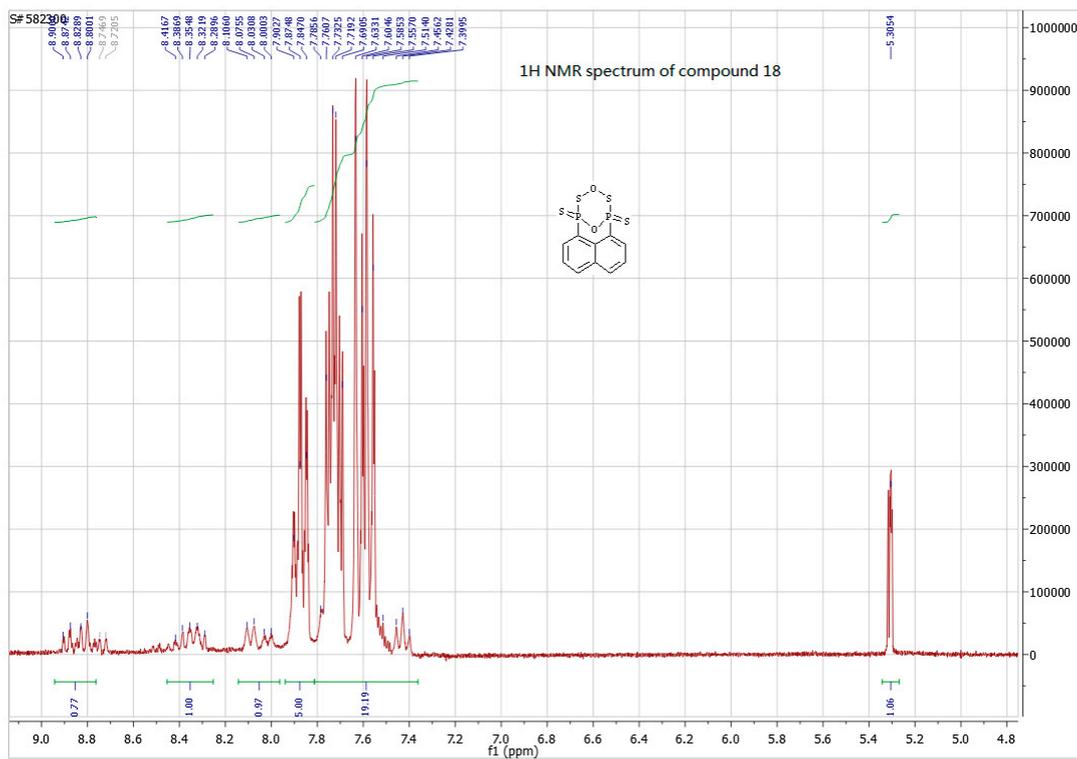


Figure S29.  $^1\text{H}$ -NMR spectra of compound 18.

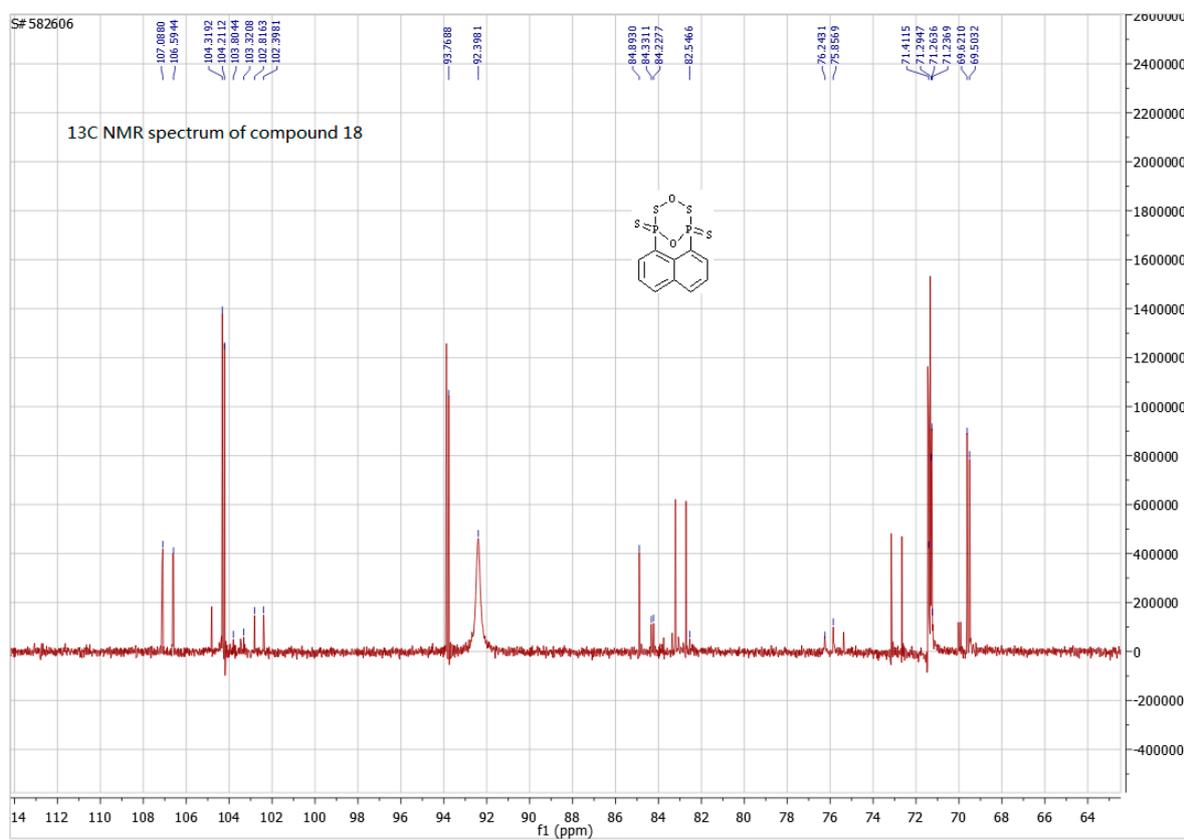
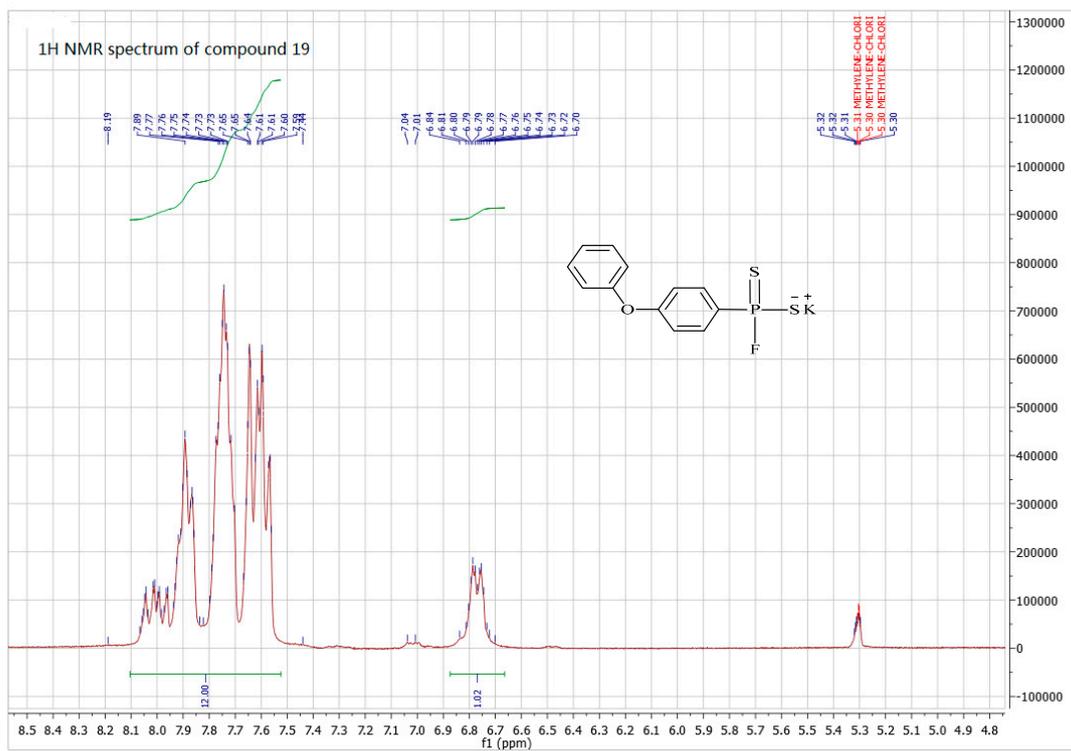
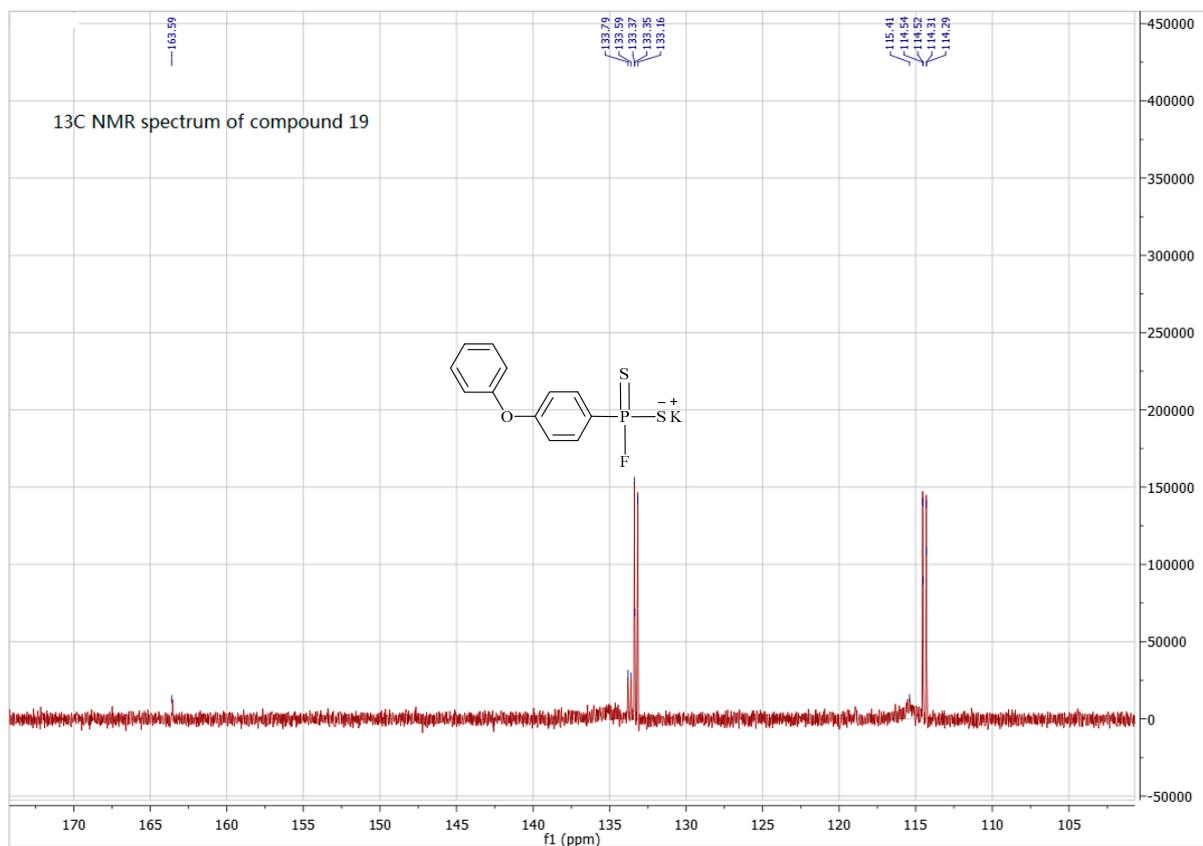


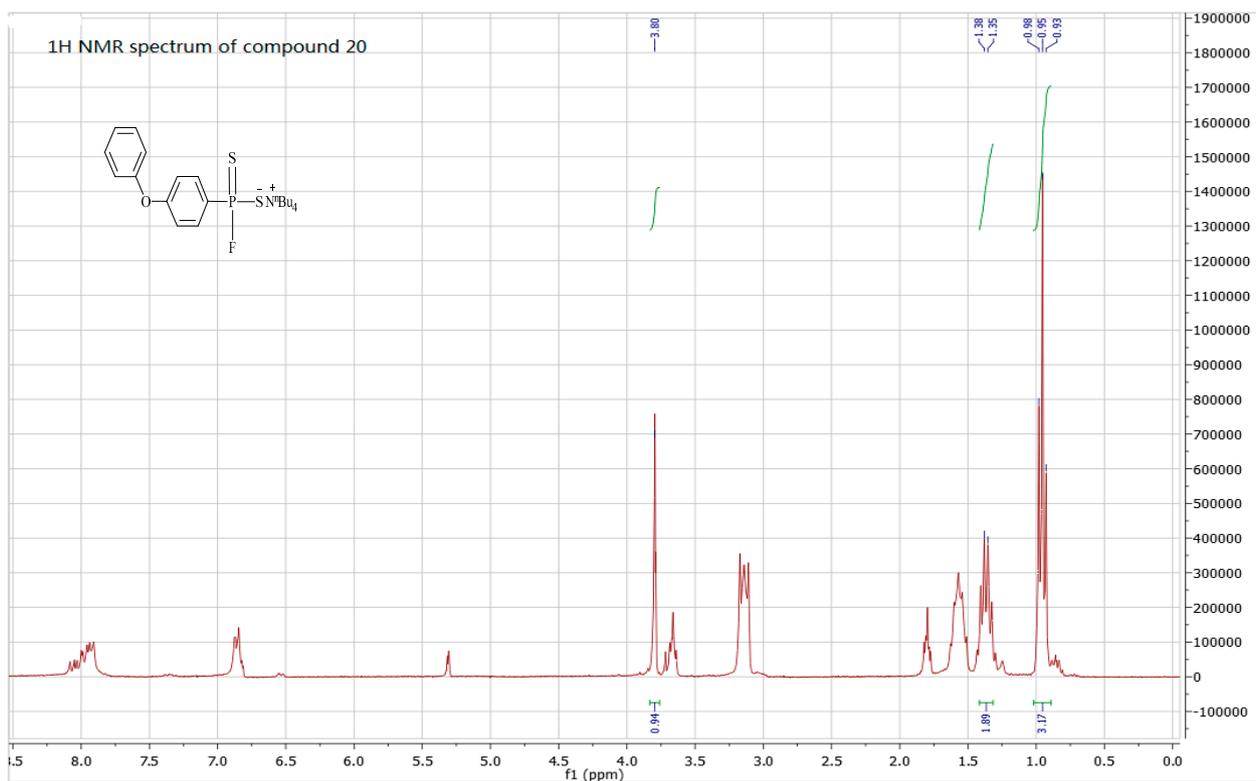
Figure S30.  $^{13}\text{C}$ -NMR spectra of compound 18.



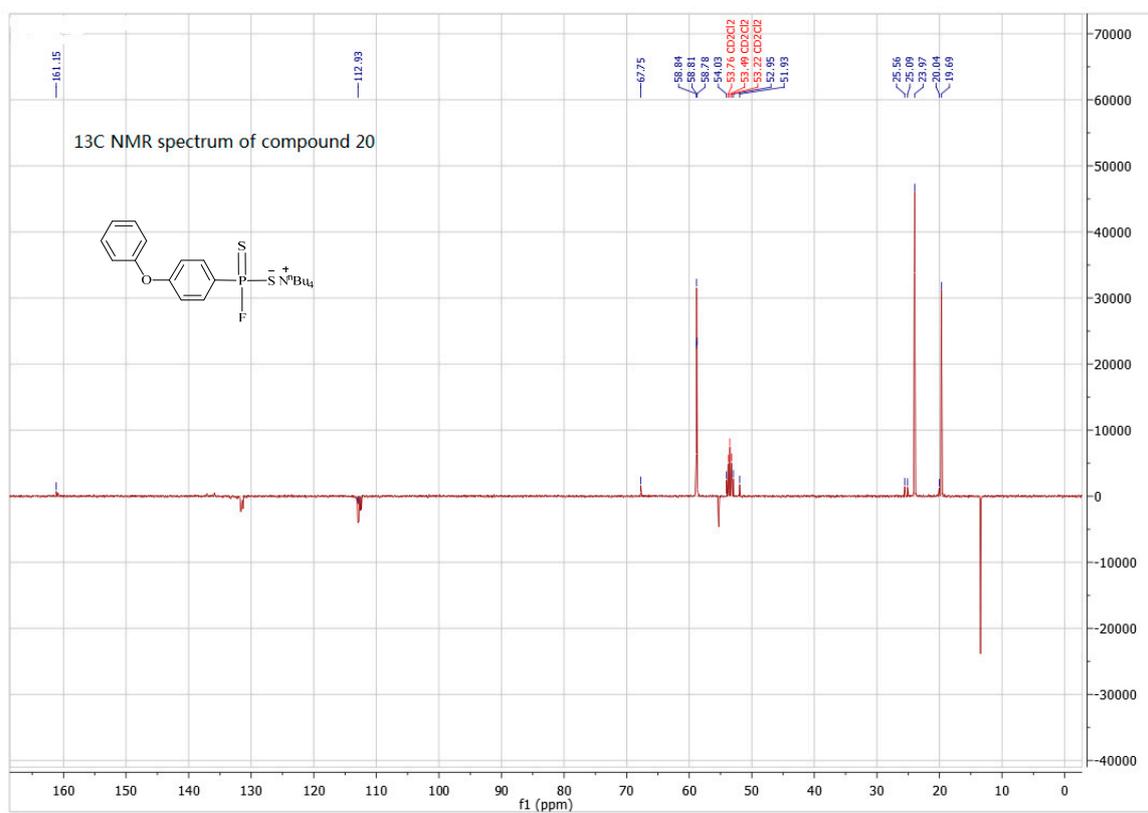
**Figure S31.** <sup>1</sup>H-NMR spectra of compound 19.



**Figure S32.** <sup>13</sup>C-NMR spectra of compound 19.



**Figure S33.** <sup>1</sup>H-NMR spectra of compound 20.



**Figure S34.** <sup>13</sup>C-NMR spectra of compound 20.

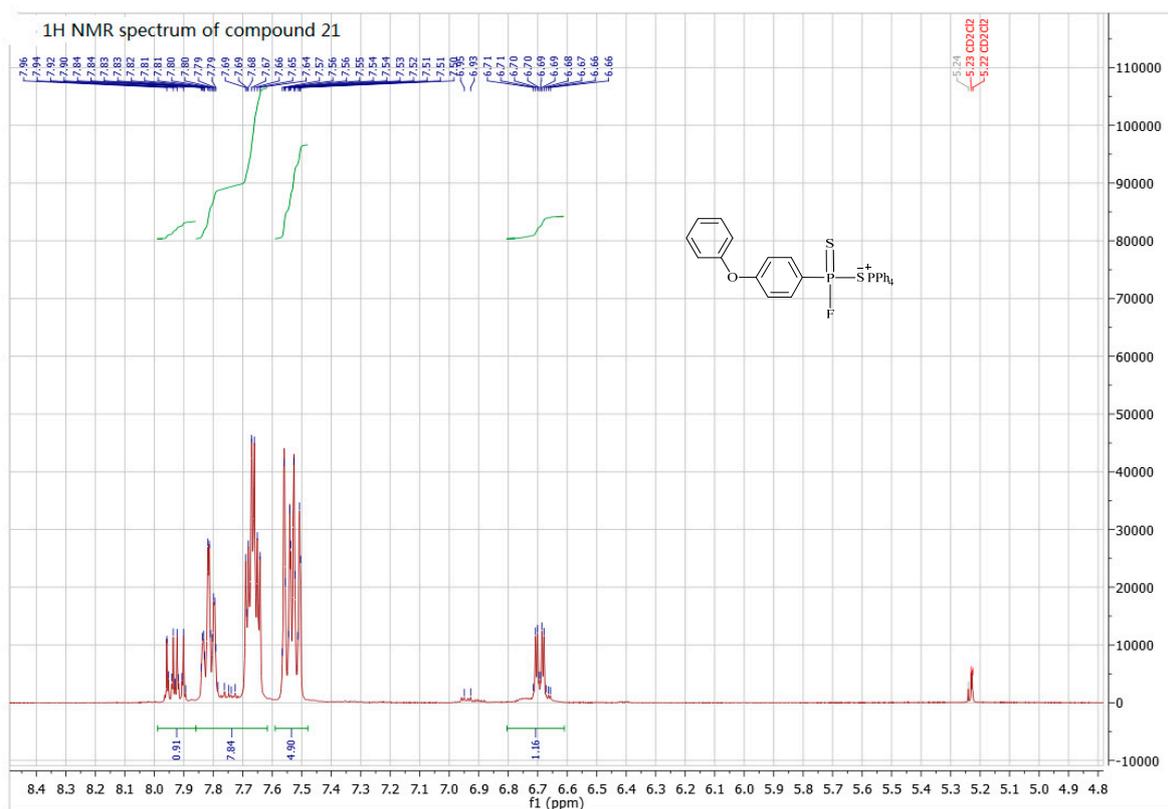


Figure S35. <sup>1</sup>H-NMR spectra of compound 21.

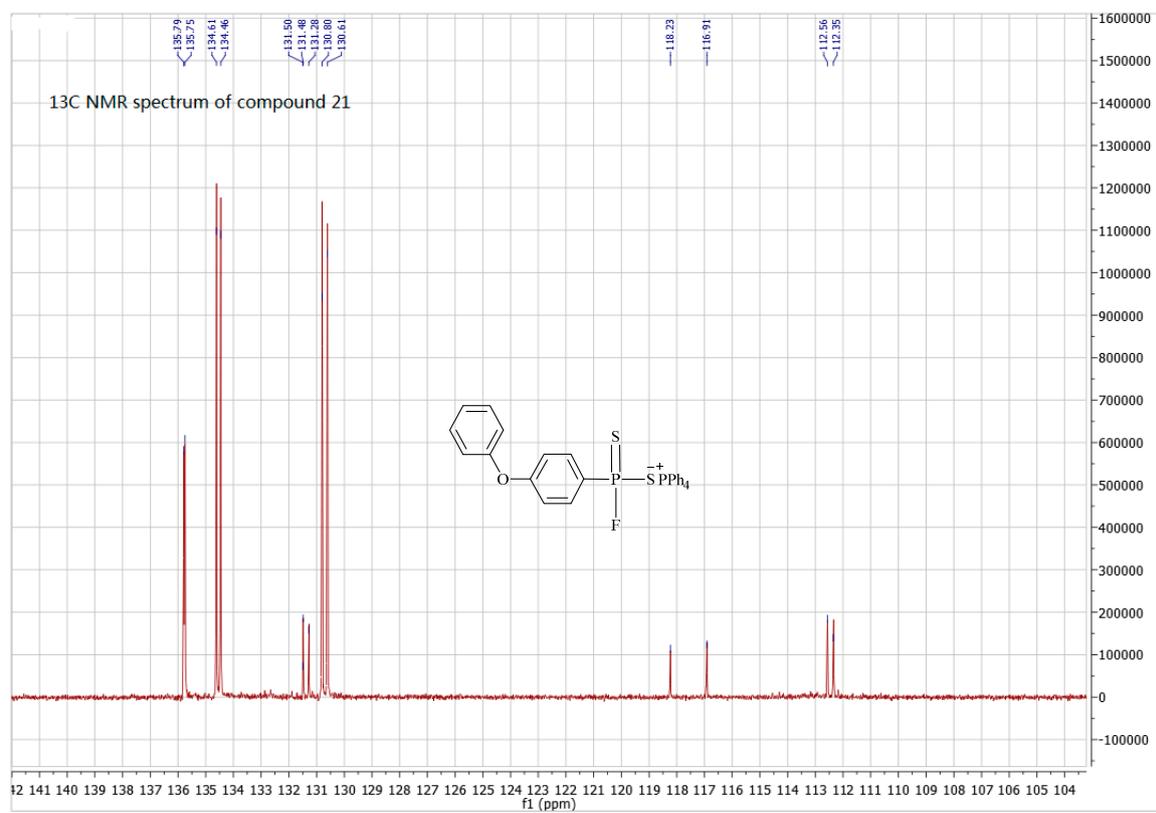


Figure S36. <sup>13</sup>C-NMR spectra of compound 21.