

Supplementary Material

1 Supplementary Figures

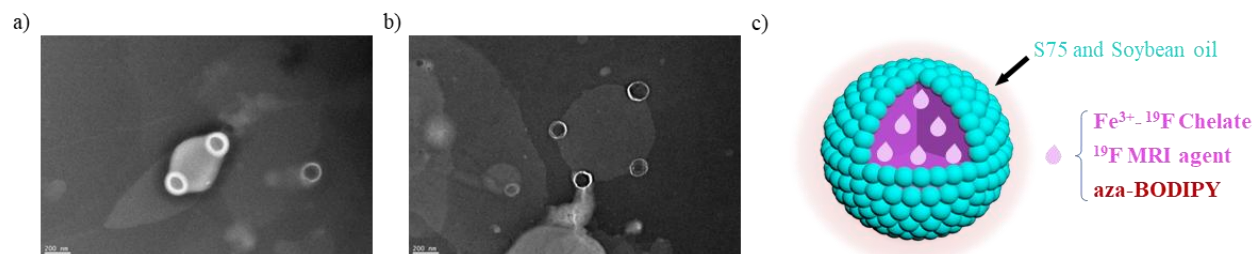


Figure S1. TEM images of nanoemulsions **E1** (a) and **E2** (b), and the structure of nanoemulsions (c).

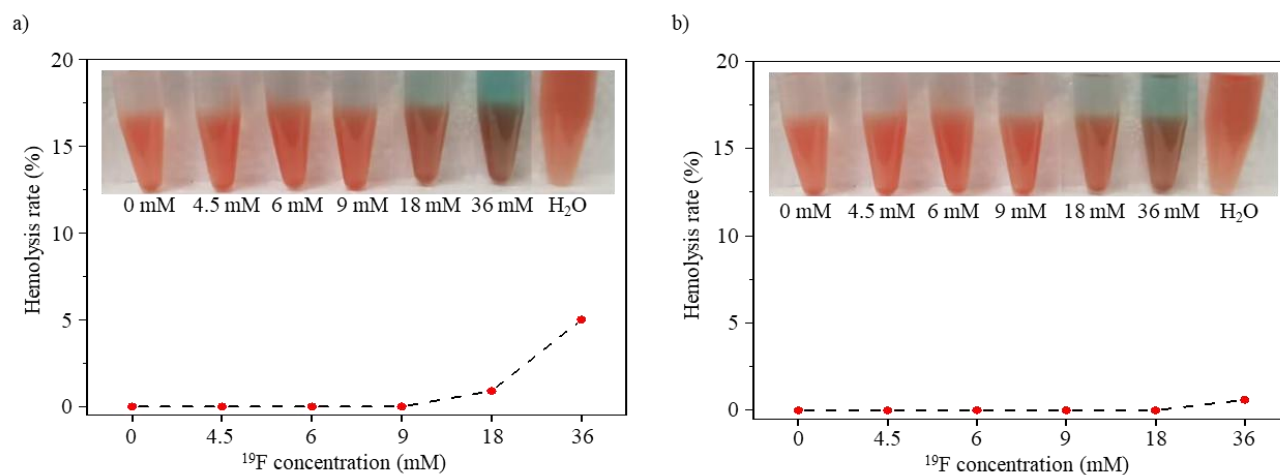


Figure S2. Hemocompatibility test of nanoemulsions **E1** (a) and **E2** (b), deionized water and PBS were used as positive and negative controls, respectively.

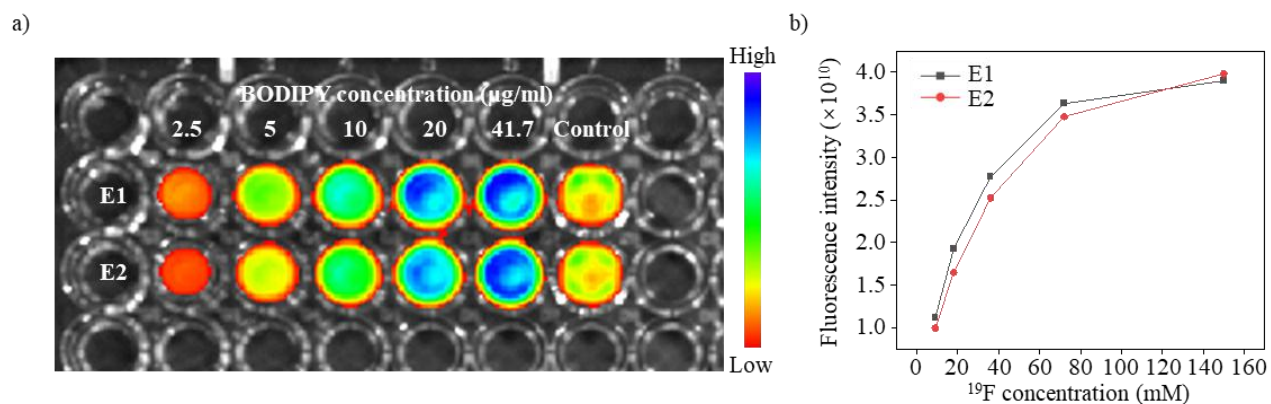


Figure S3. *In vitro* fluorescence images (a) and quantitative analysis of FL intensity (b) of nanoemulsions **E1** and **E2** at different concentrations. The concentration of aza-BODIPY in the control group is 2.5 $\mu\text{g/mL}$.

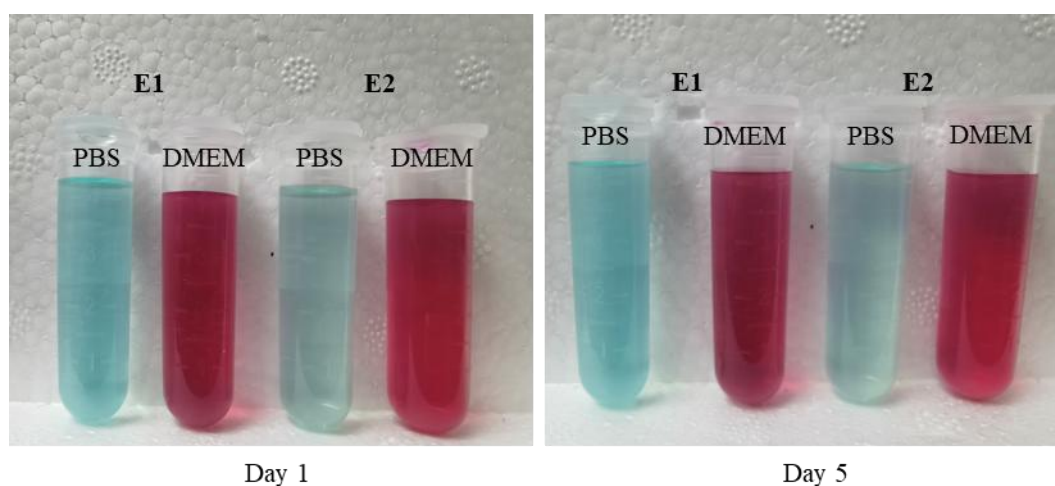
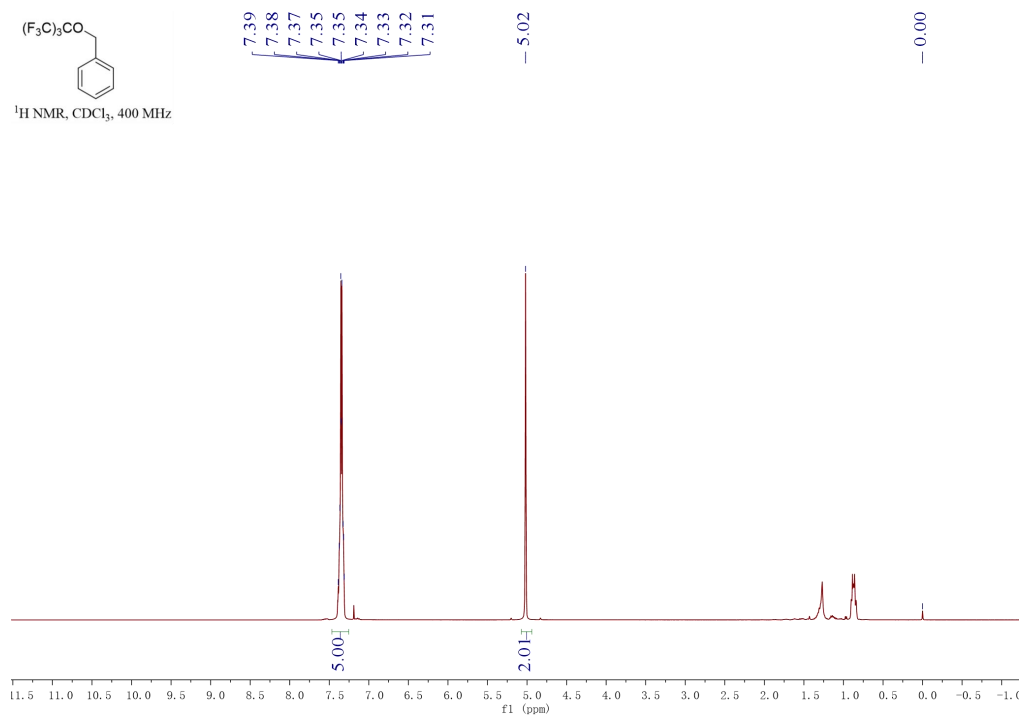


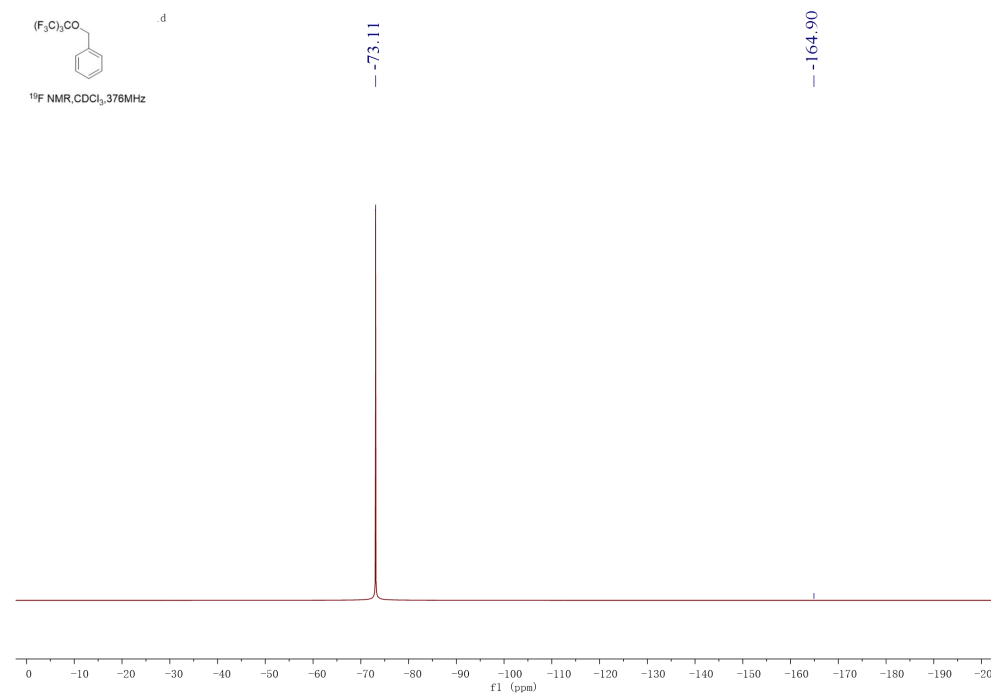
Figure S4. The digital photographs of nanoemulsions **E1** and **E2** in PBS and DMEM for 5 days.

2 Copies of $^1\text{H}/^{13}\text{C}/^{19}\text{F}$ NMR and HRMS Spectra of Compounds

^1H NMR of compound 1

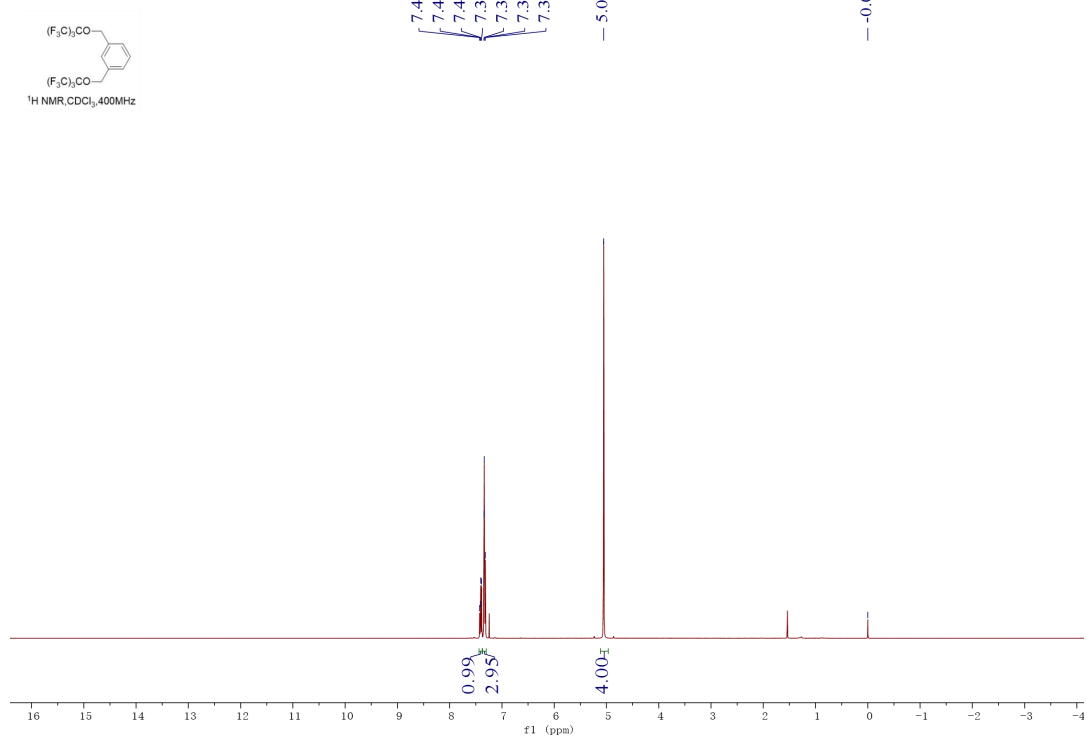


^{19}F NMR of compound 1

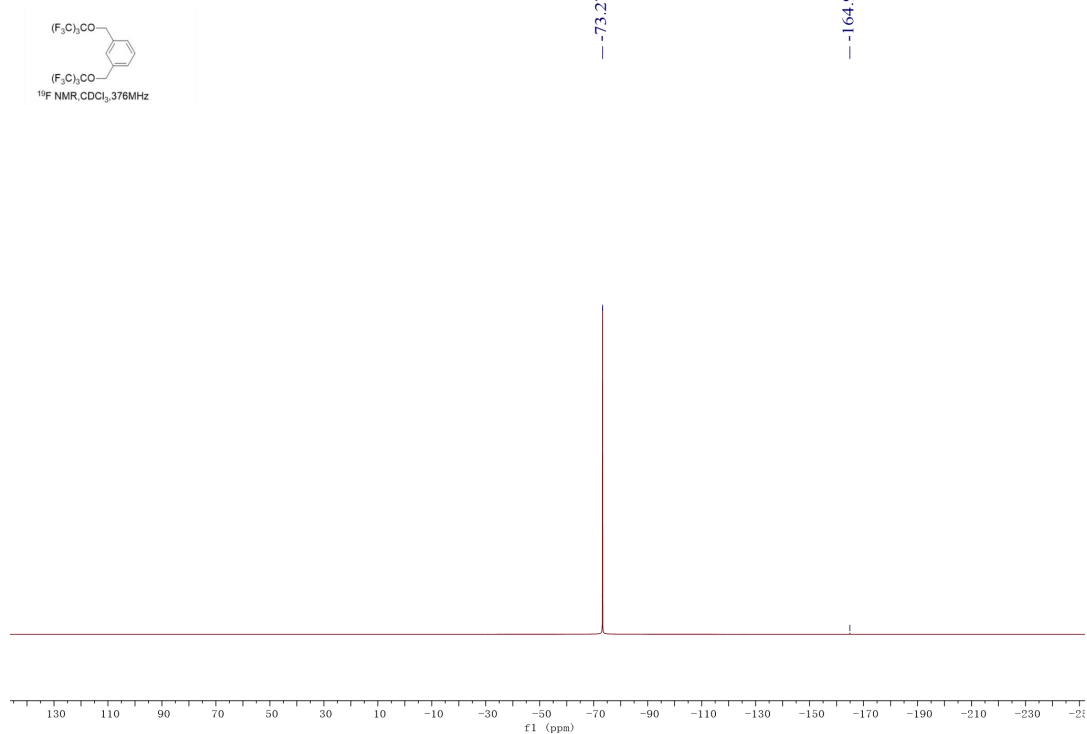


¹H NMR of compound **2**

20201212-jiangzx-15. 1. fid

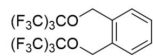
¹⁹F NMR of compound **2**

20201212-jiangzx-15. 2. fid

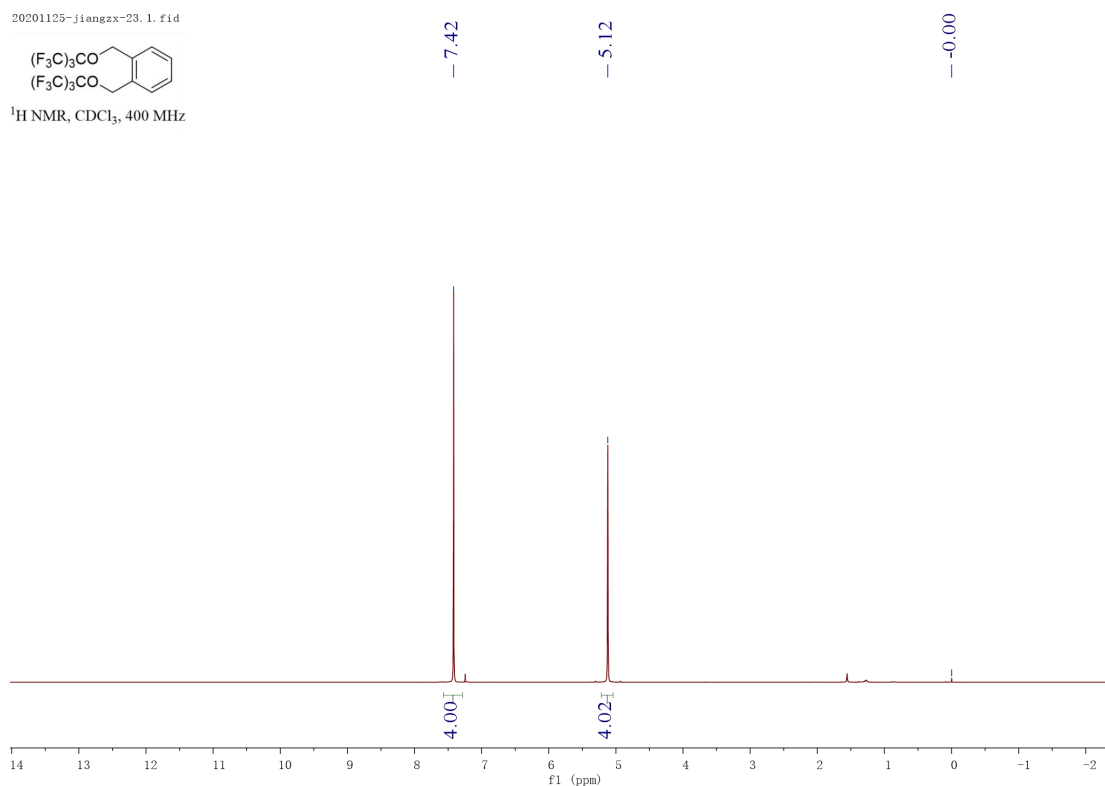


^1H NMR of compound **3**

20201125-jiangzx-23. 1. fid

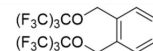


^1H NMR, CDCl_3 , 400 MHz

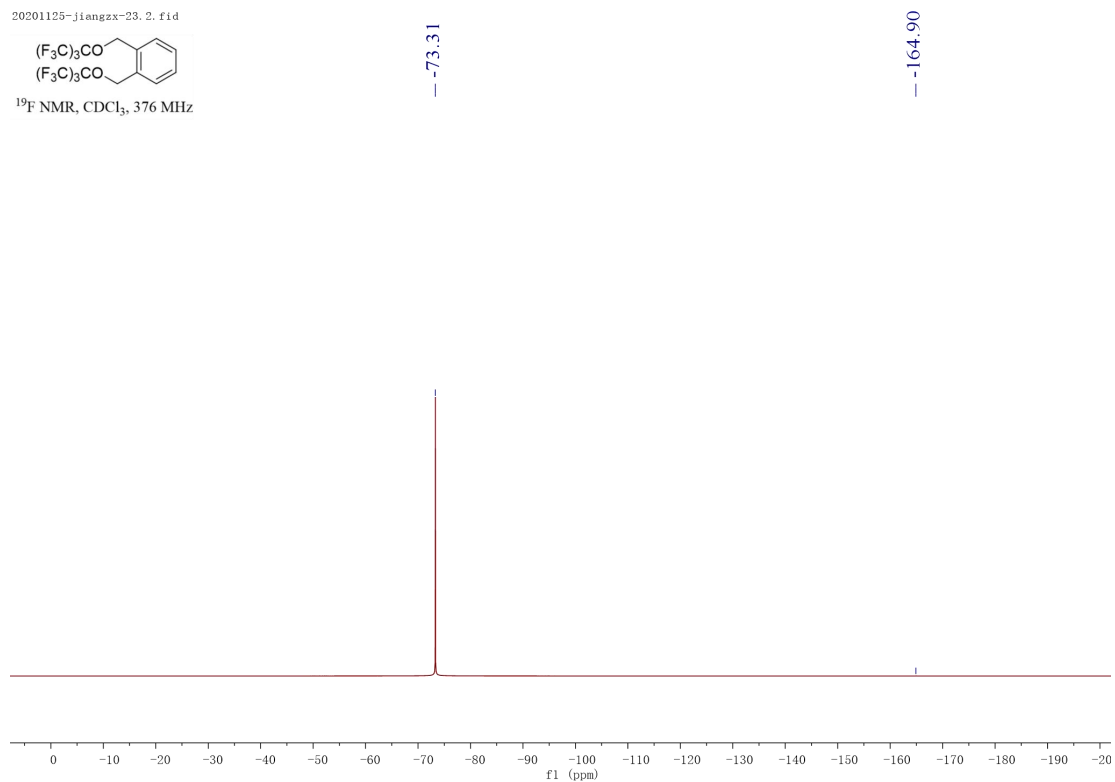


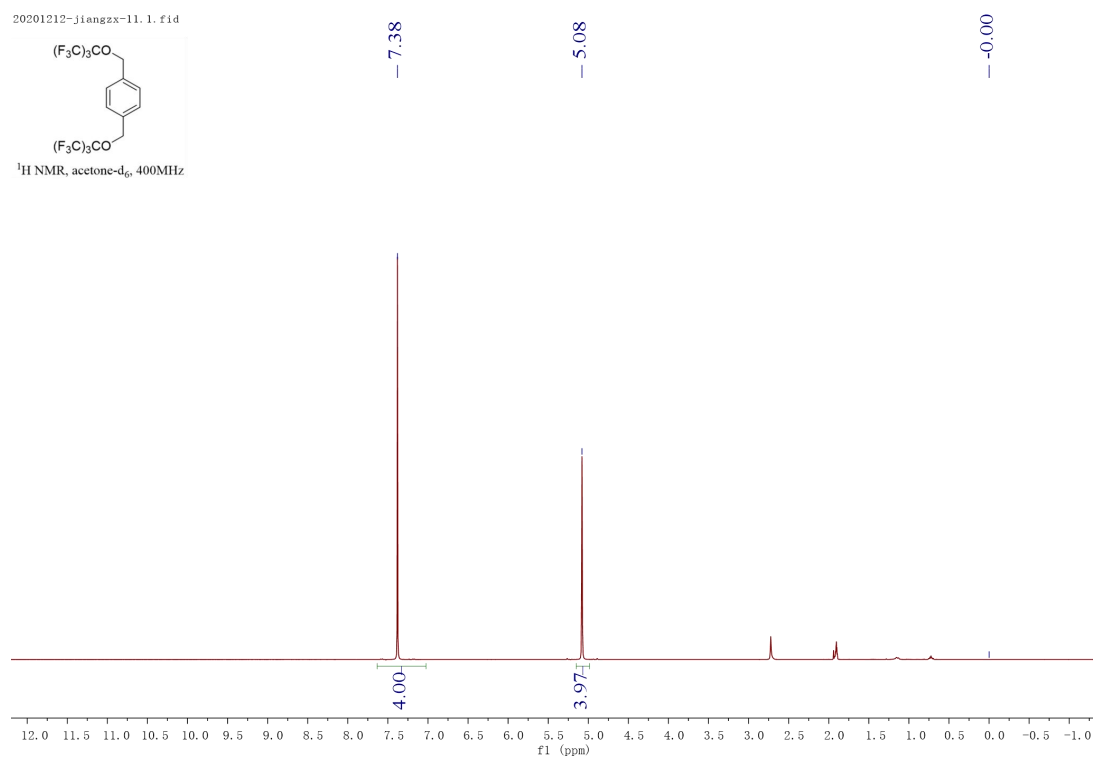
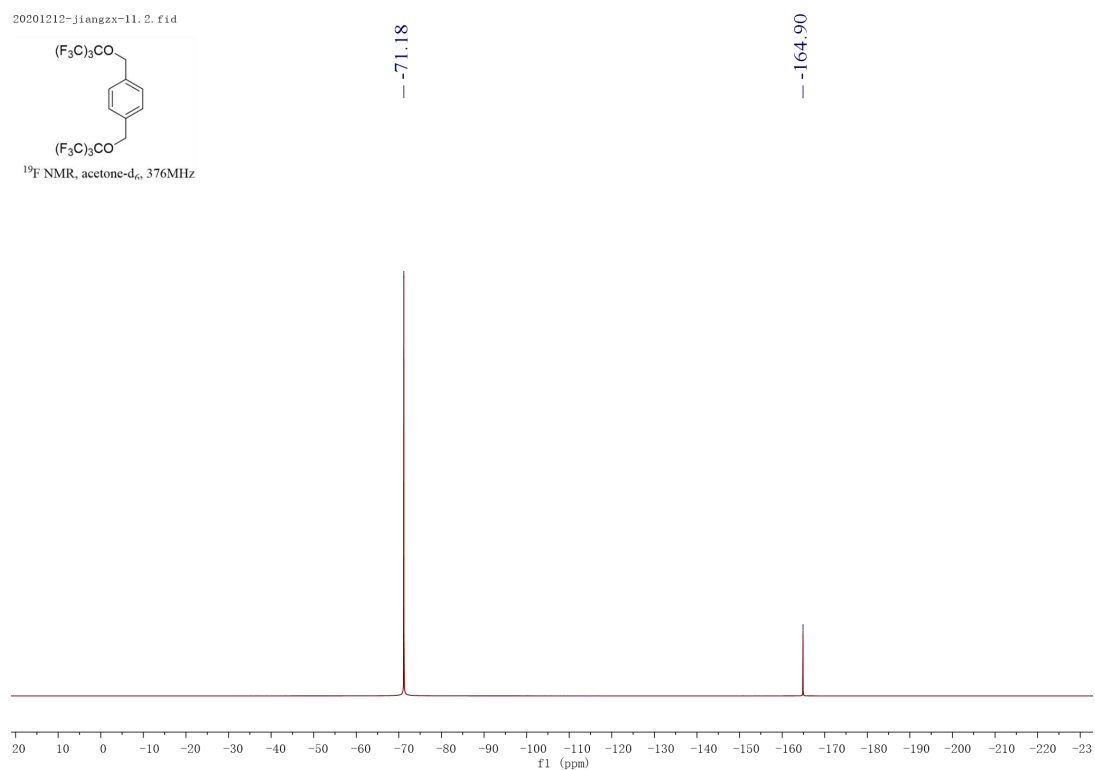
^{19}F NMR of compound **3**

20201125-jiangzx-23. 2. fid



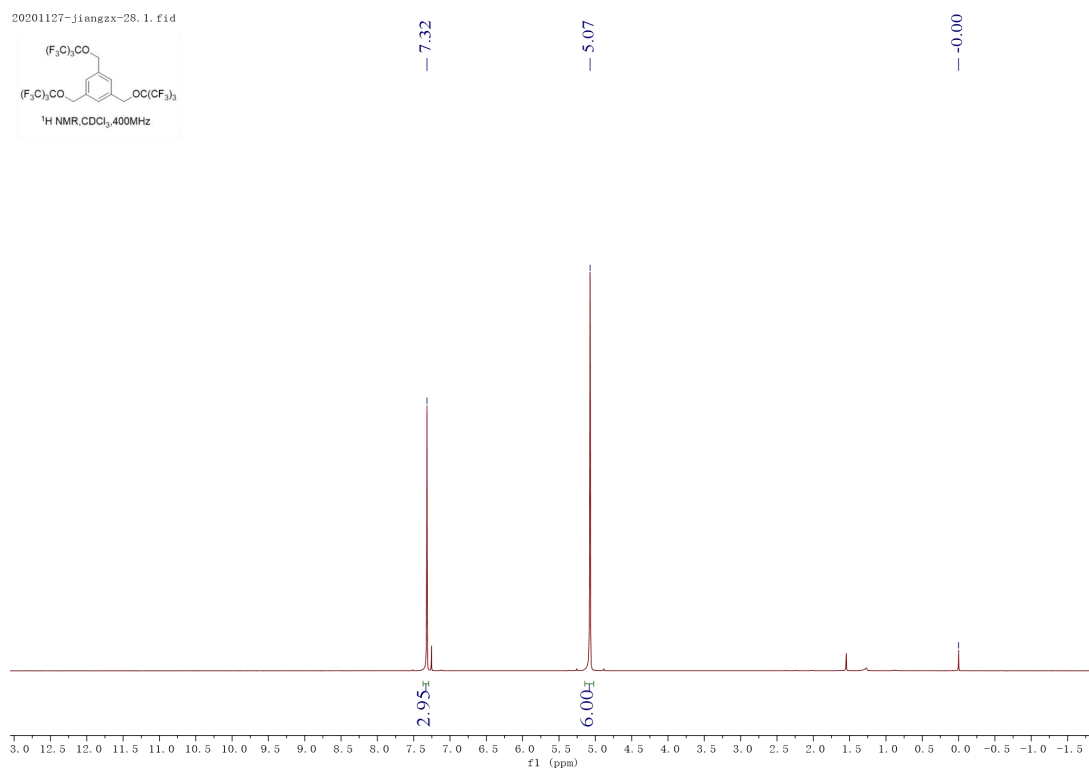
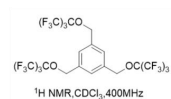
^{19}F NMR, CDCl_3 , 376 MHz



¹H NMR of compound 4¹⁹F NMR of compound 4

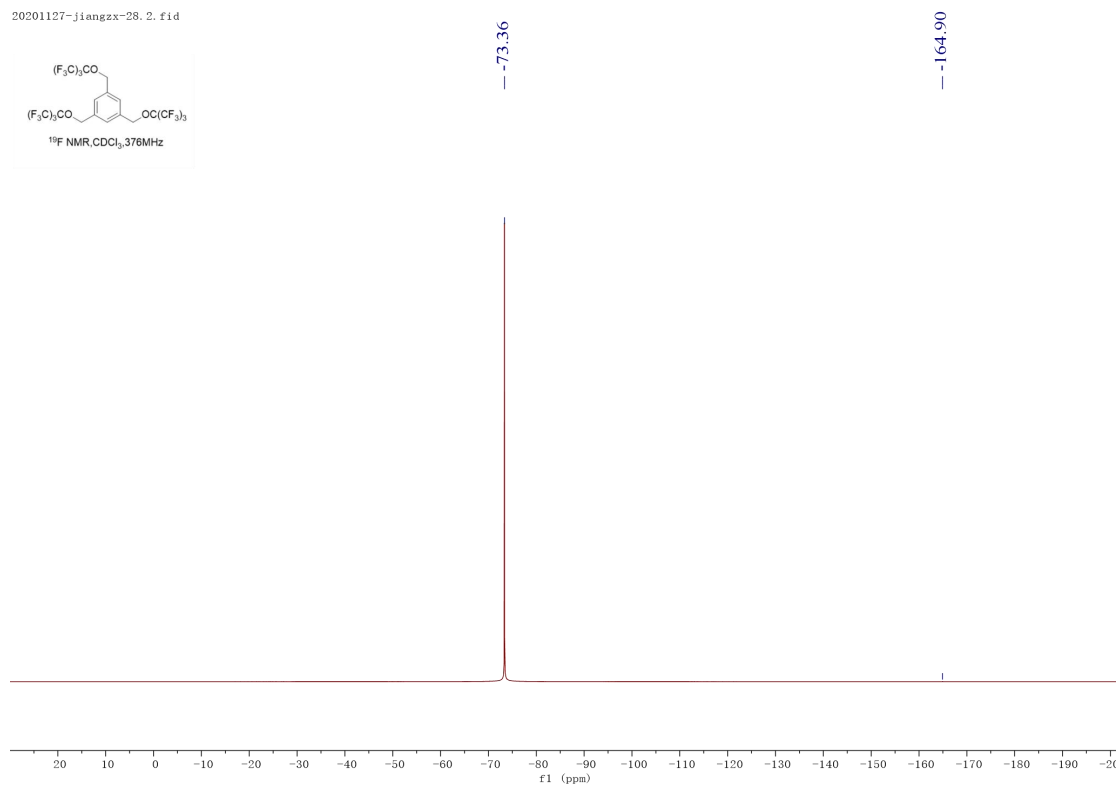
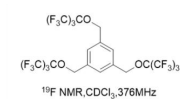
¹H NMR of compound **5**

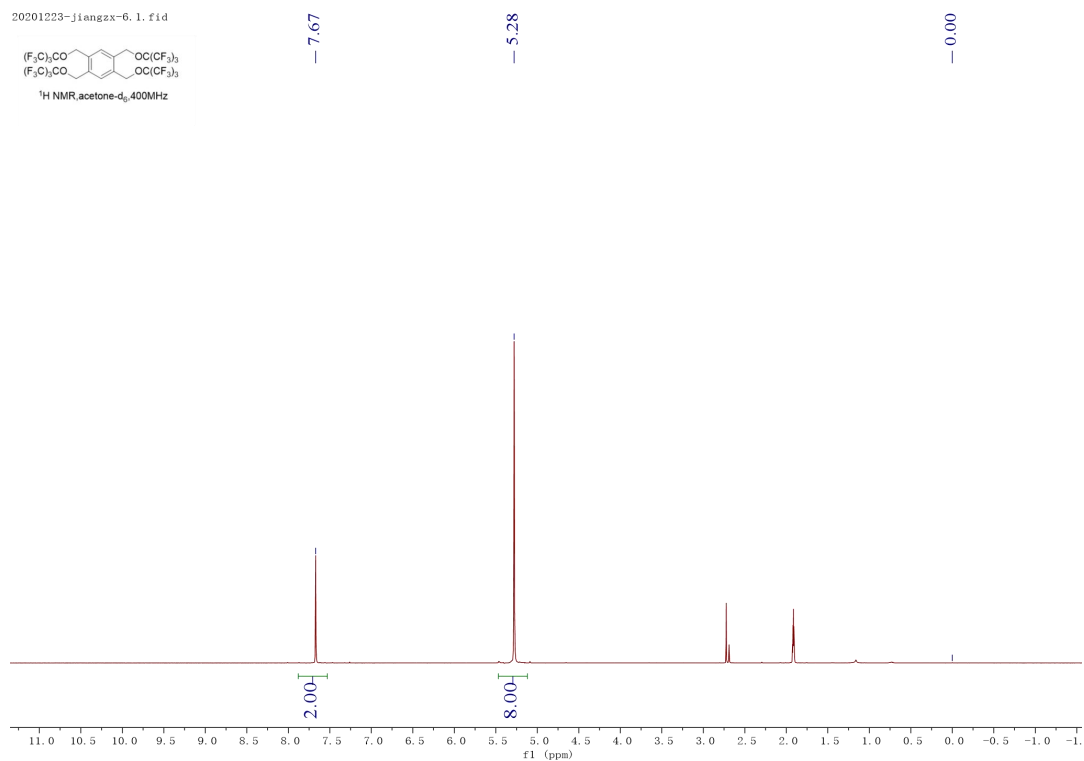
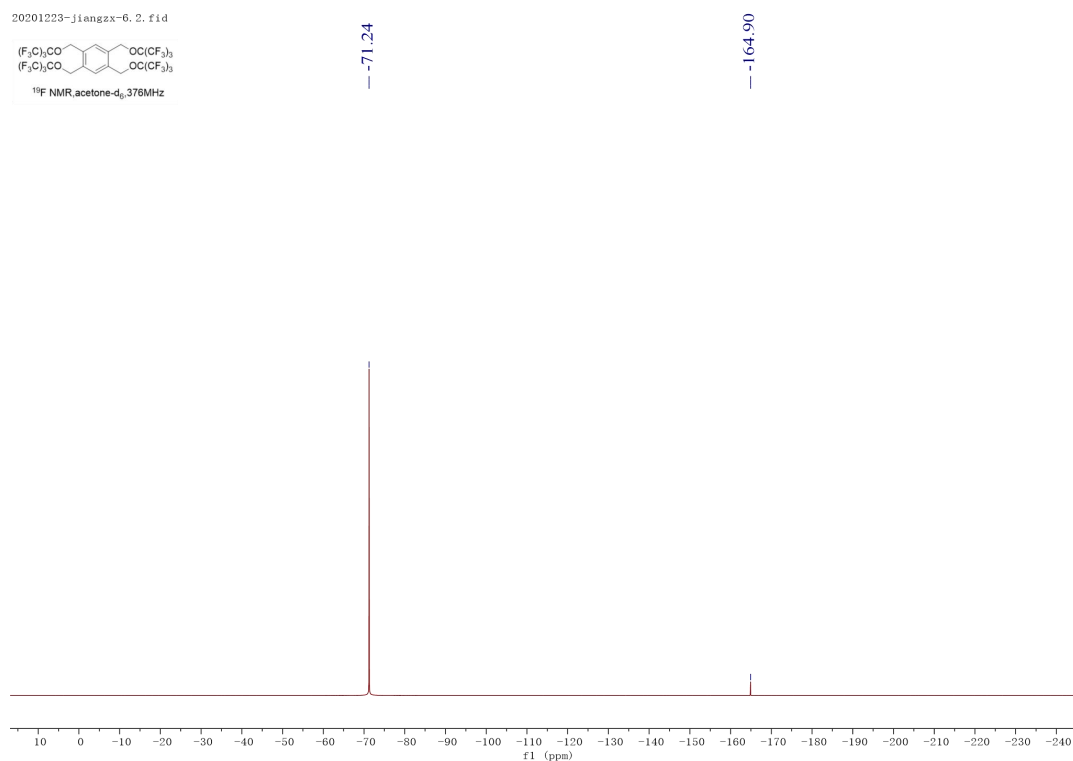
20201127-jiangzx-28. 1. f1d



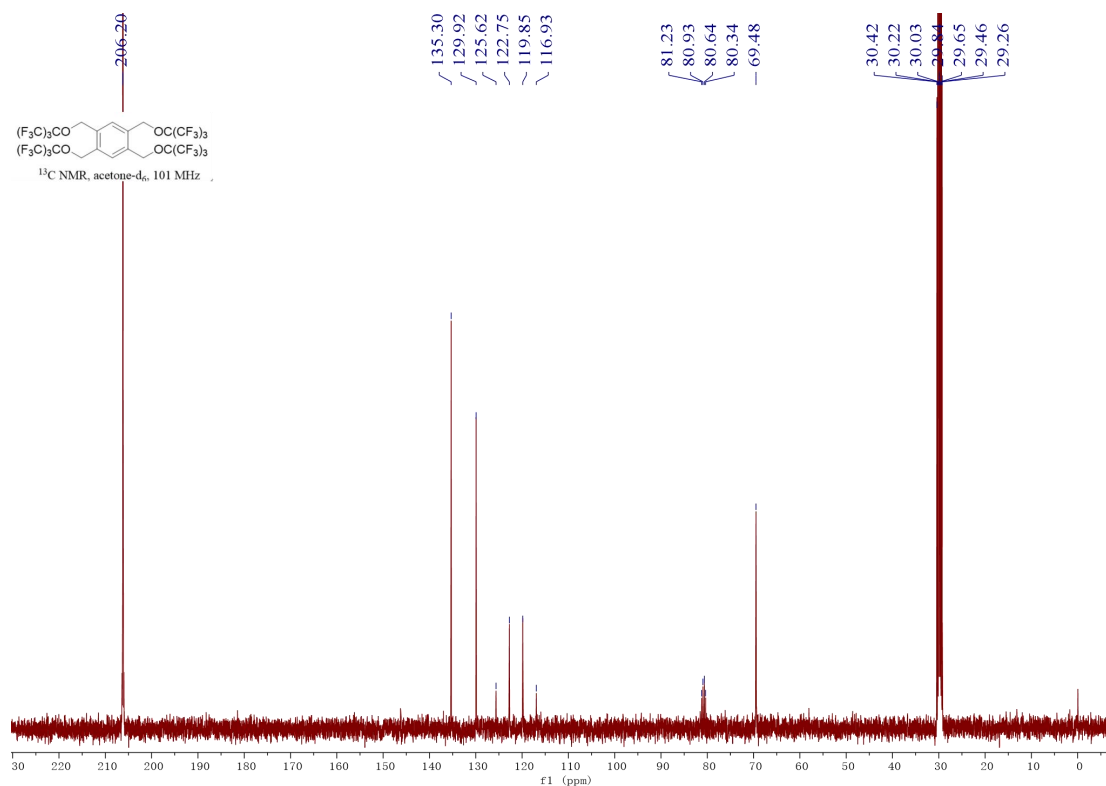
¹⁹F NMR of compound **5**

20201127-jiangzx-28. 2. f1d

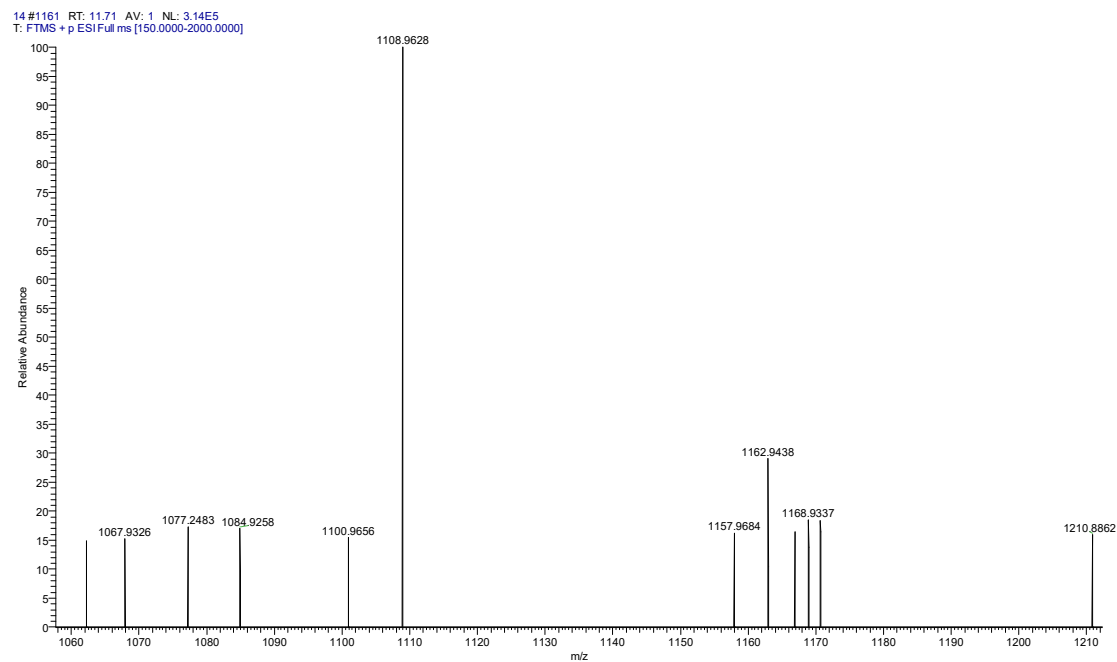


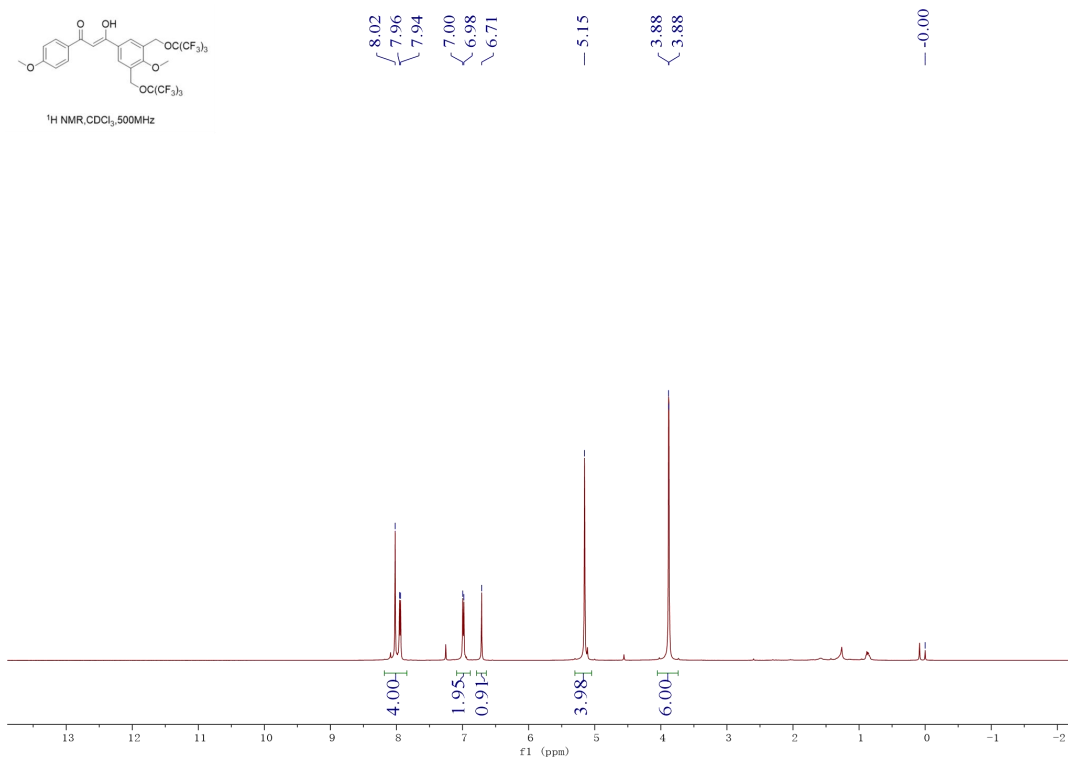
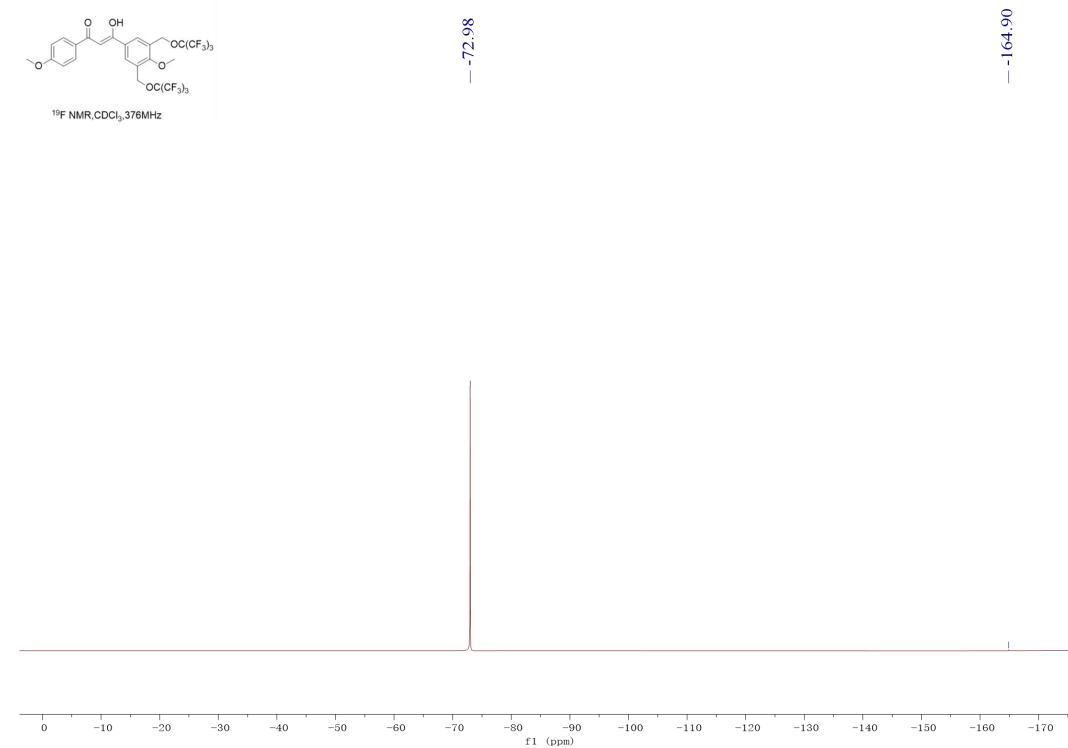
¹H NMR of compound **6**¹⁹F NMR of compound **6**

^{13}C NMR of compound 6

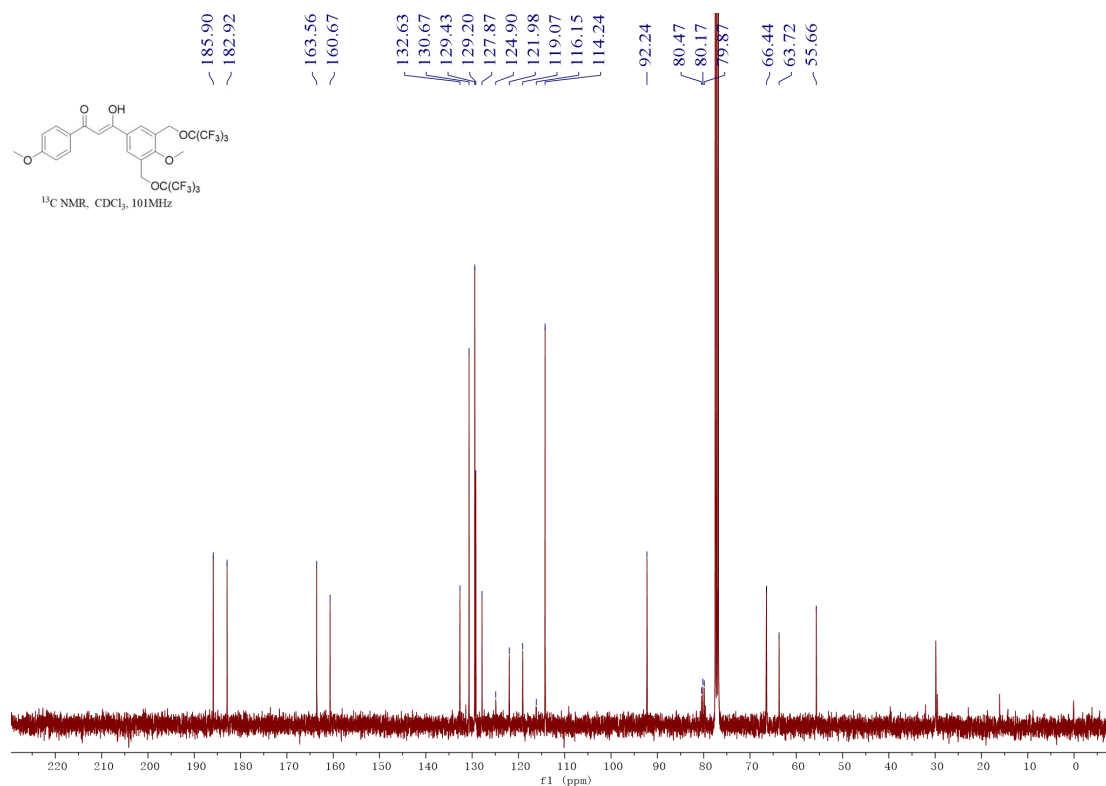


HRMS of compound 6

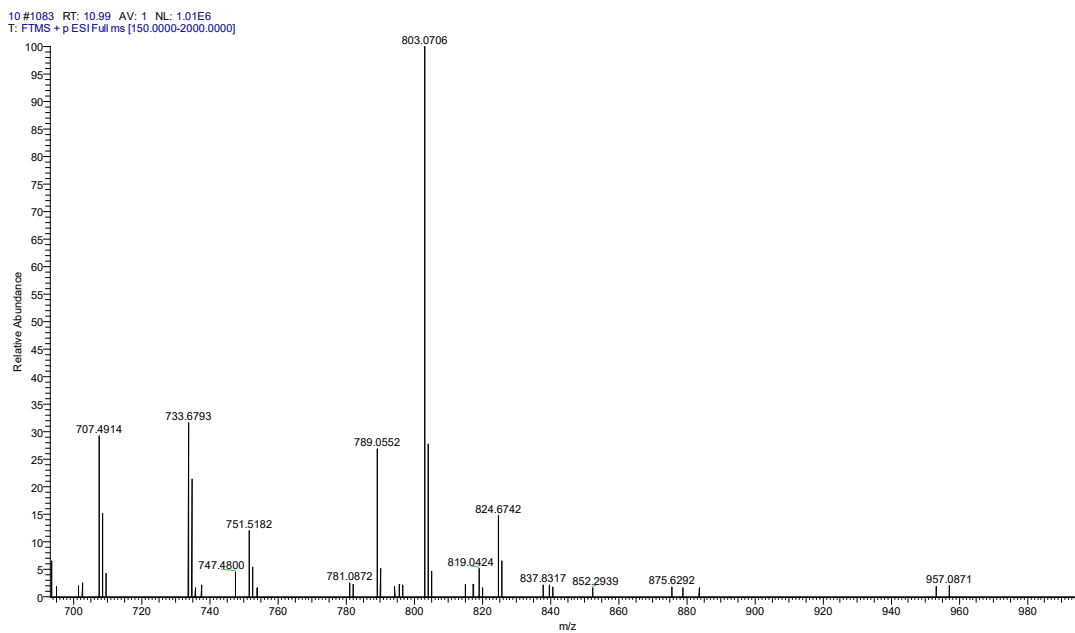


¹H NMR of compound **9**¹⁹F NMR of compound **9**

^{13}C NMR of compound **9**

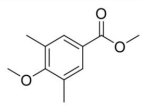
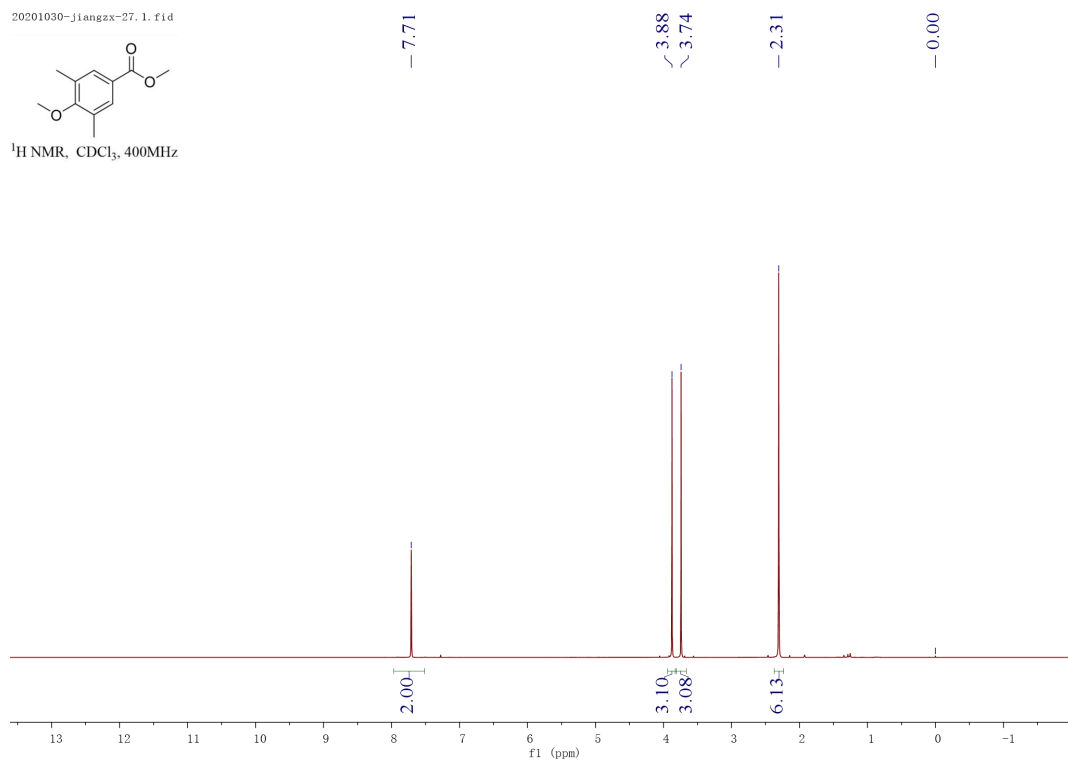


HRMS of compound **9**

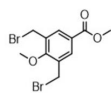
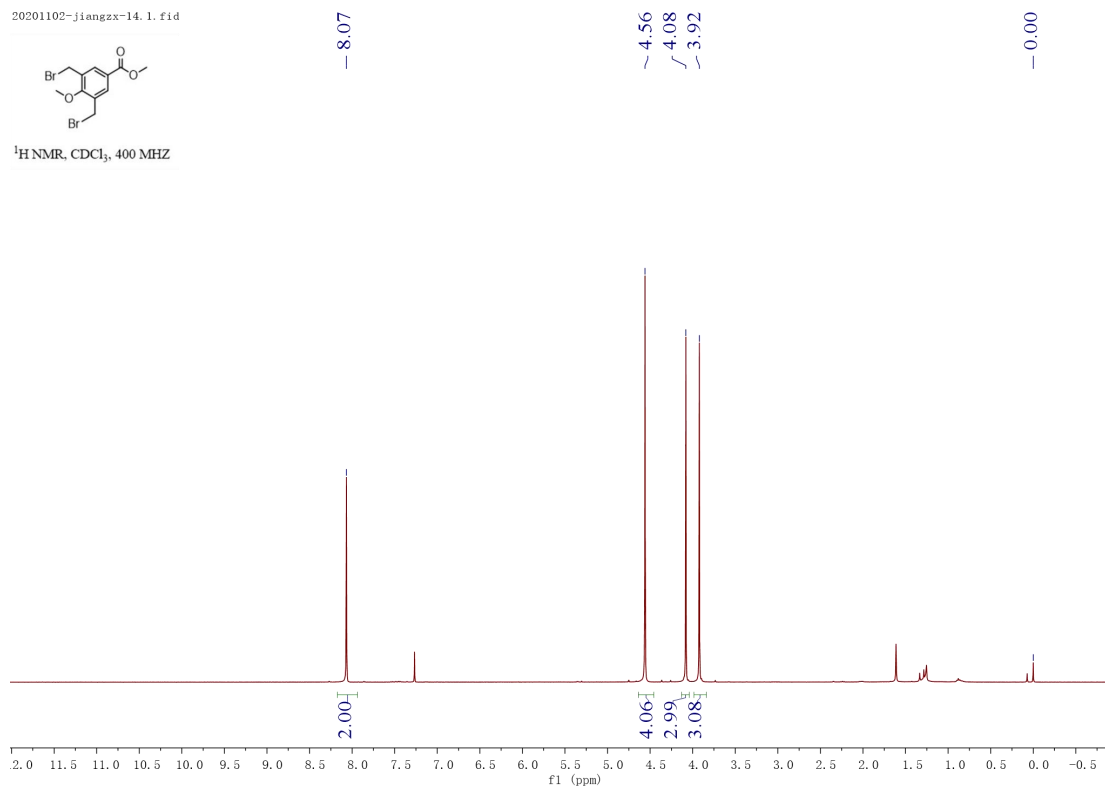


¹H NMR of compound 20

20201030-jiangzx-27. 1. f1d

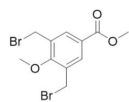
¹H NMR, CDCl₃, 400MHz**¹H NMR of compound 21**

20201102-jiangzx-14. 1. f1d

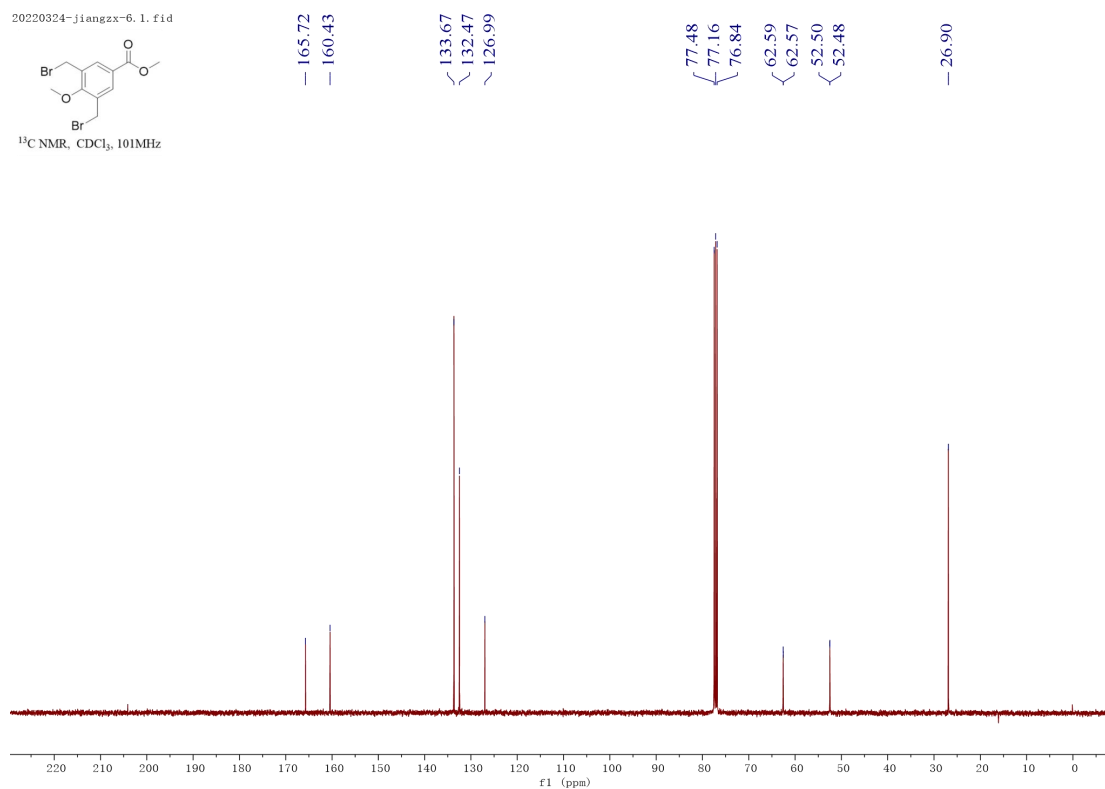
¹H NMR, CDCl₃, 400 MHz

^{13}C NMR of compound **21**

20220324-jiangzx-6.1.fid

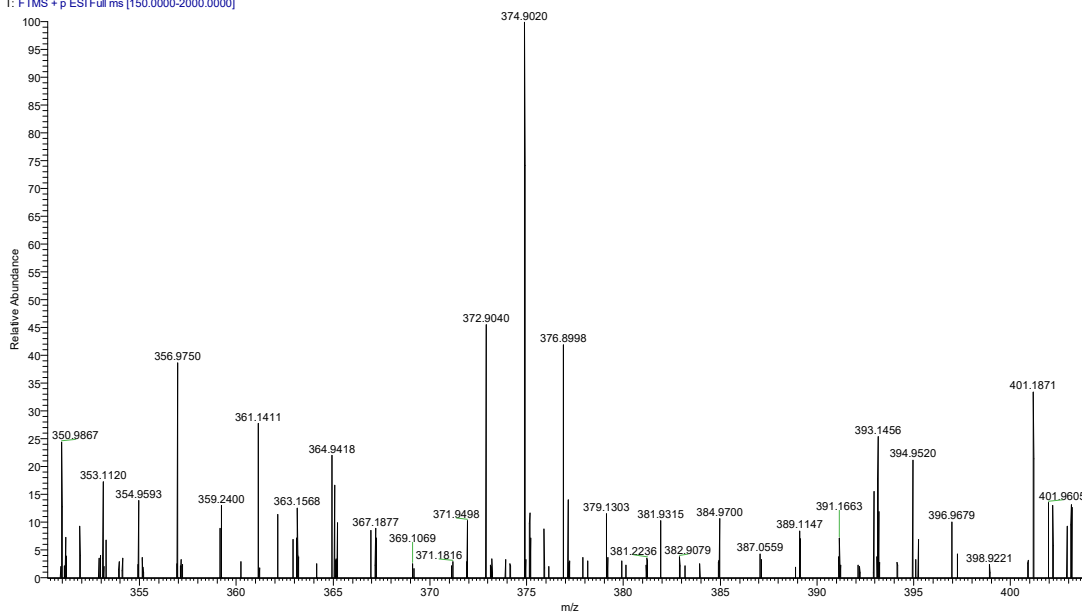


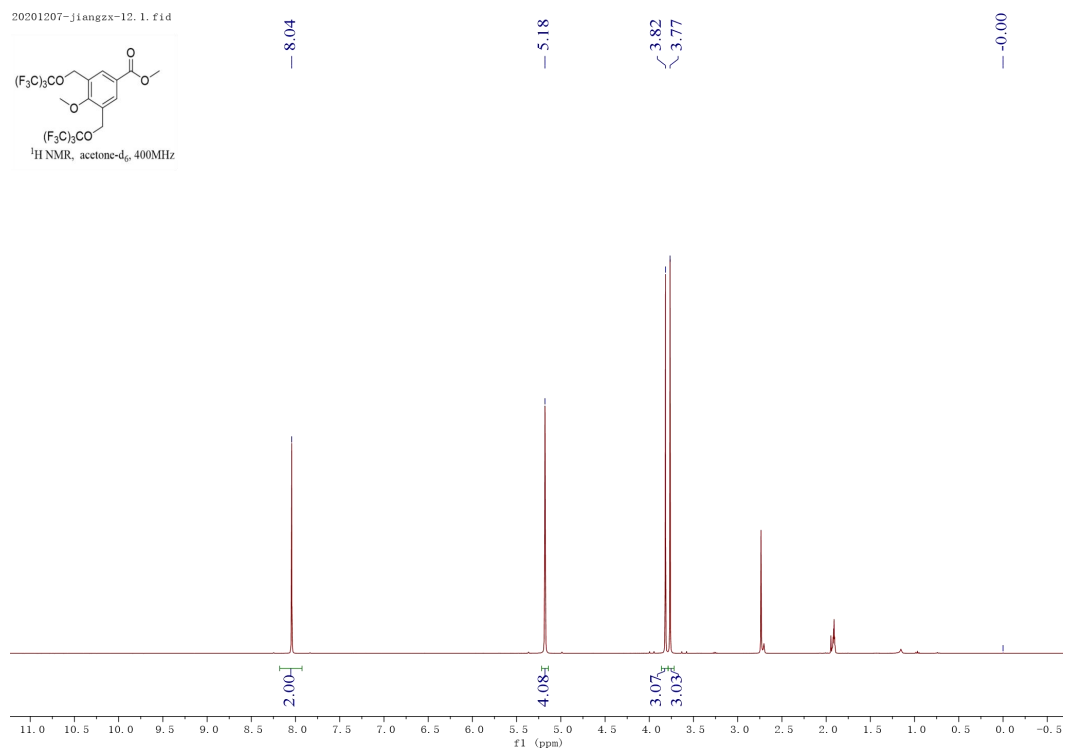
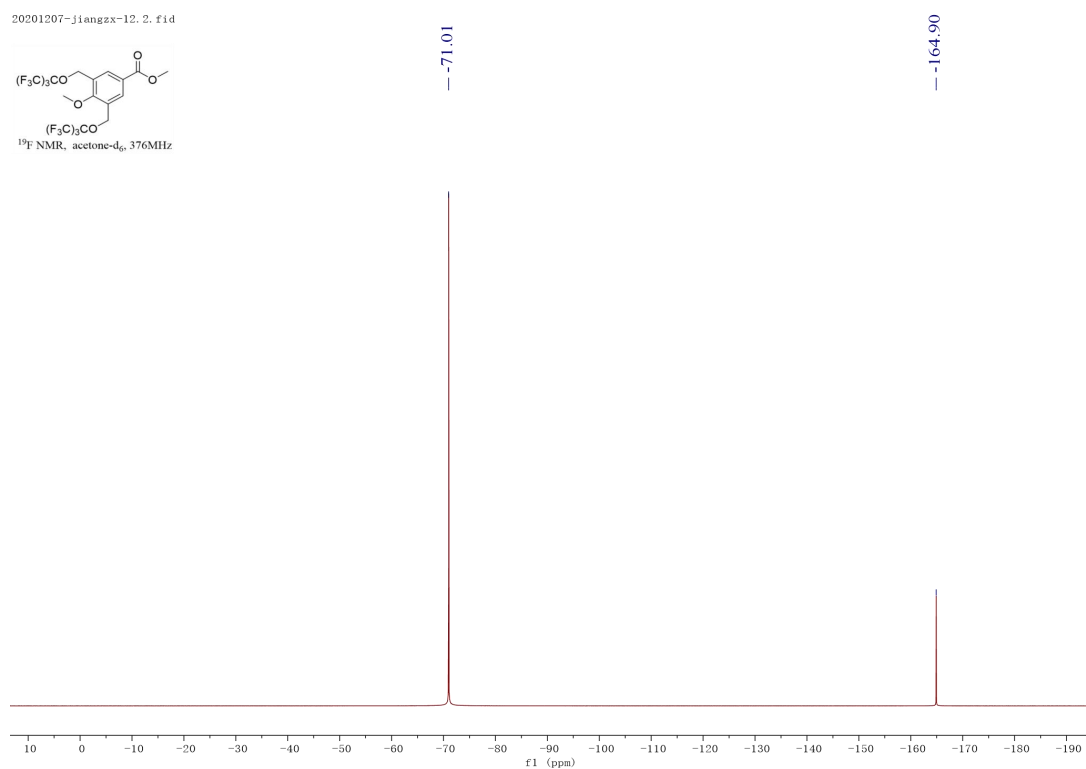
^{13}C NMR, CDCl_3 , 101MHz



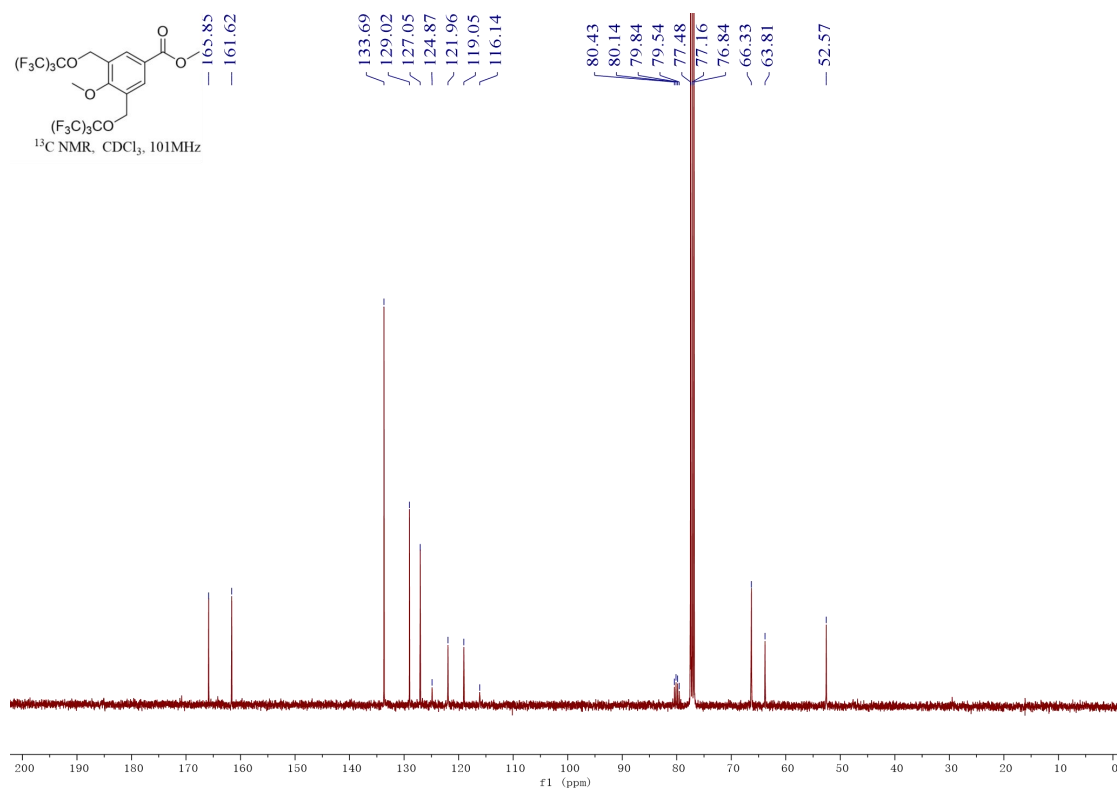
HRMS of compound **21**

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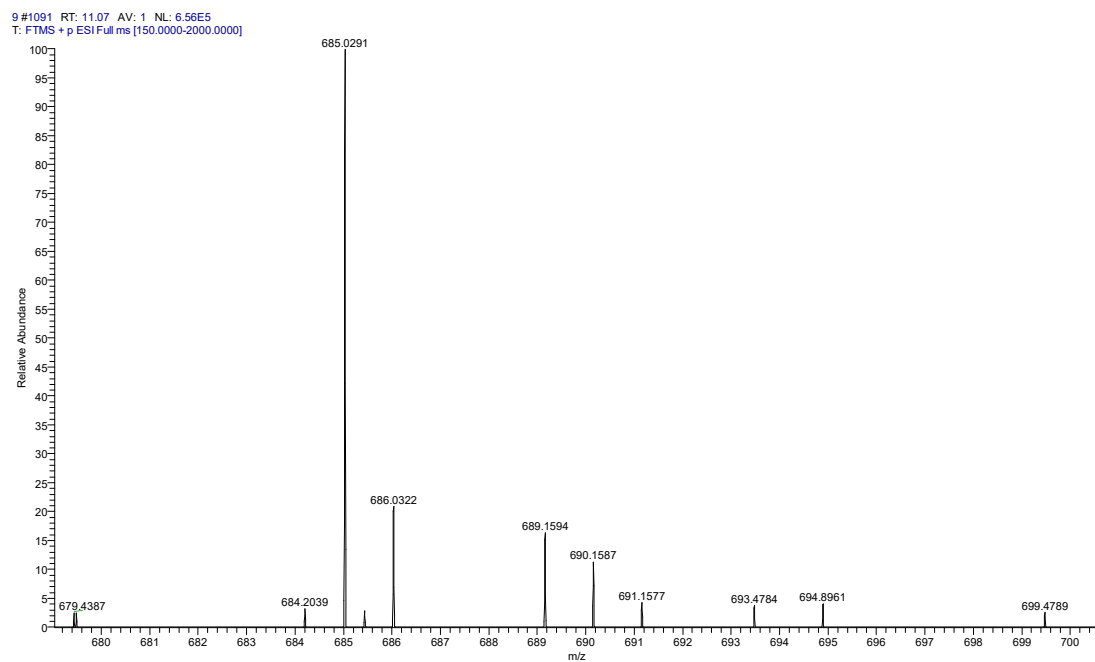


¹H NMR of compound **22**¹⁹F NMR of compound **22**

^{13}C NMR of compound **22**

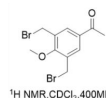
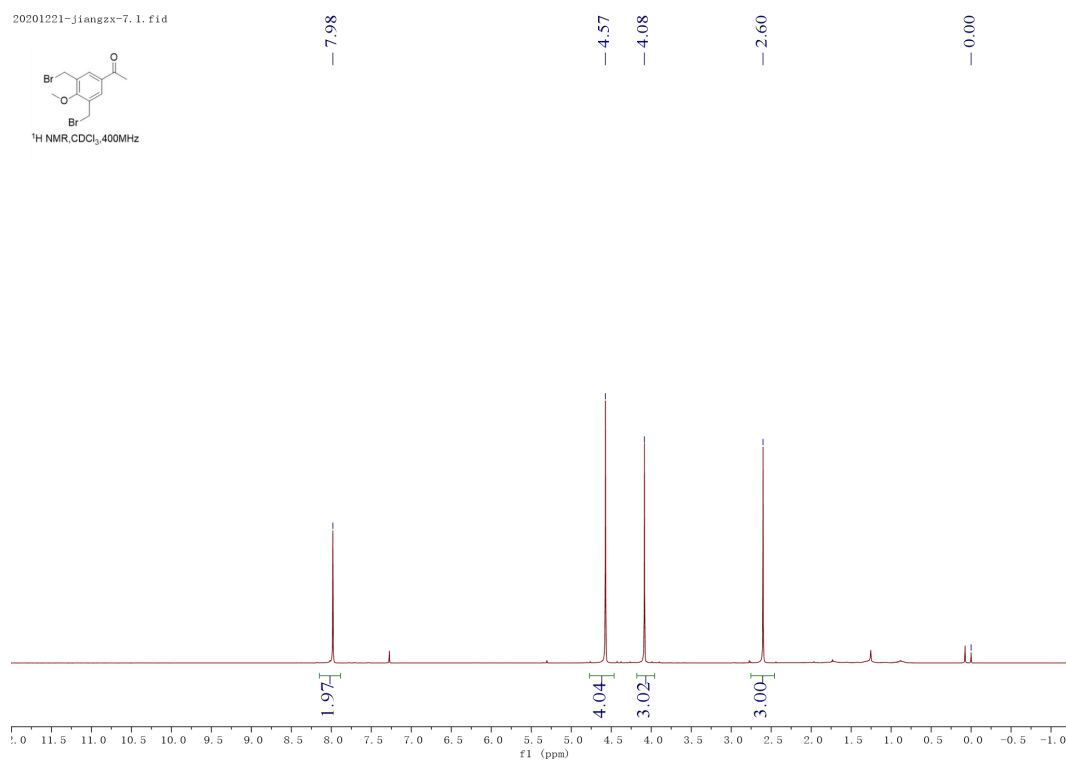
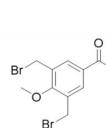
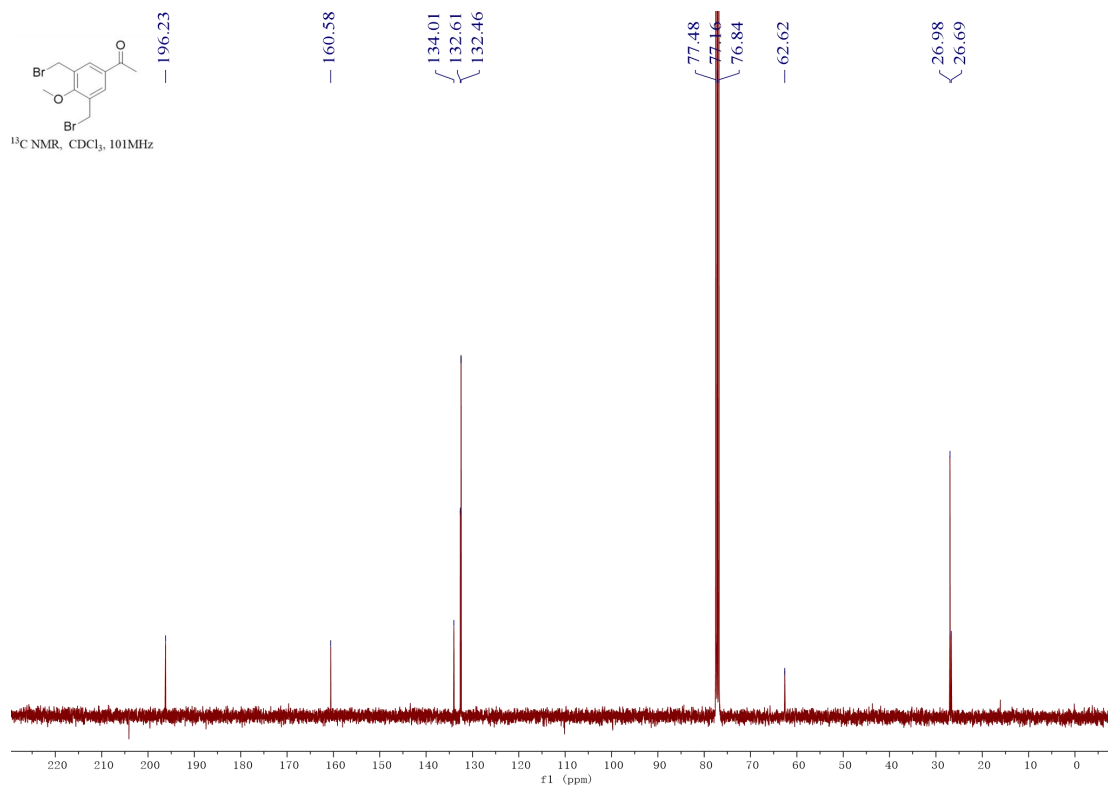


HRMS of compound **23**

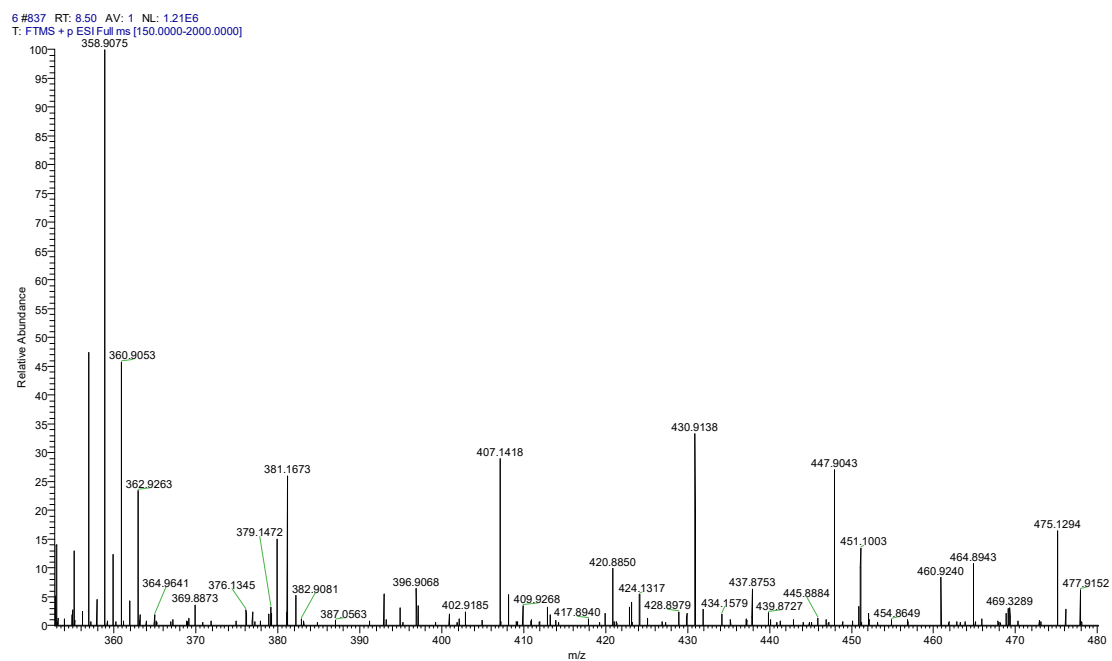


¹H NMR of compound **24**

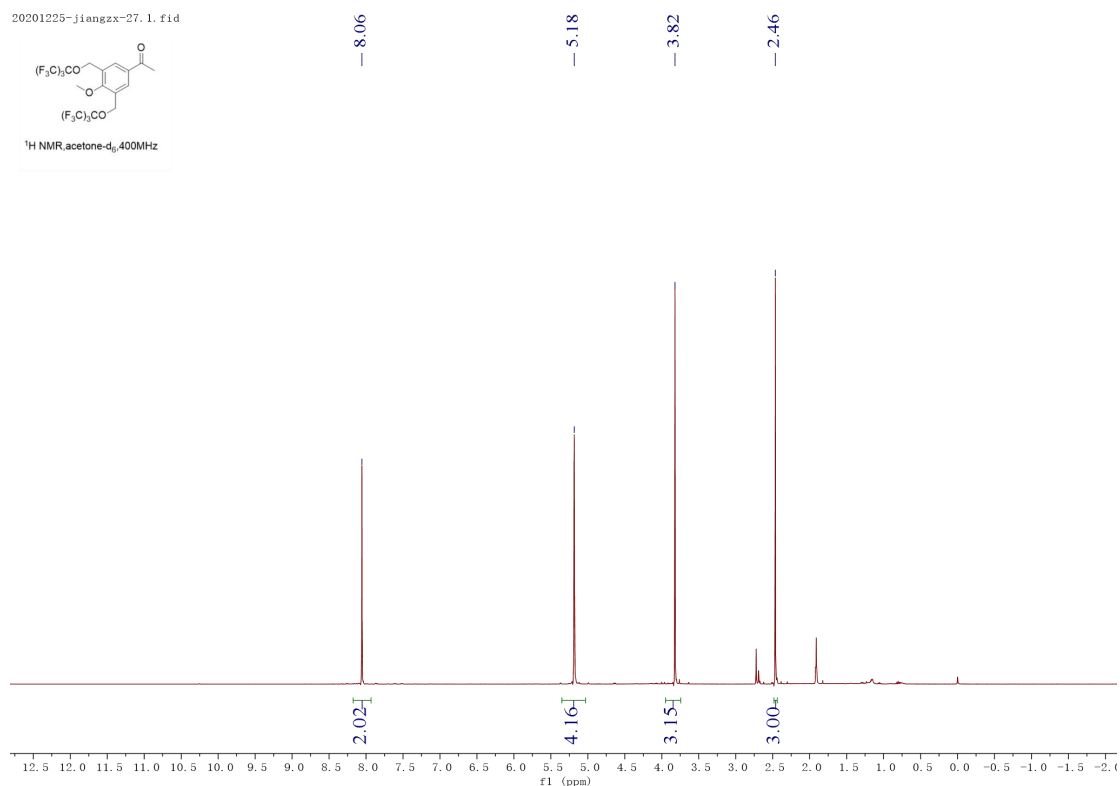
20201221-jiangzx-7. 1. f1d

¹H NMR, CDCl₃, 400MHz¹³C NMR of compound **24**¹³C NMR, CDCl₃, 101MHz

HRMS of compound **24**

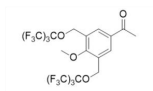
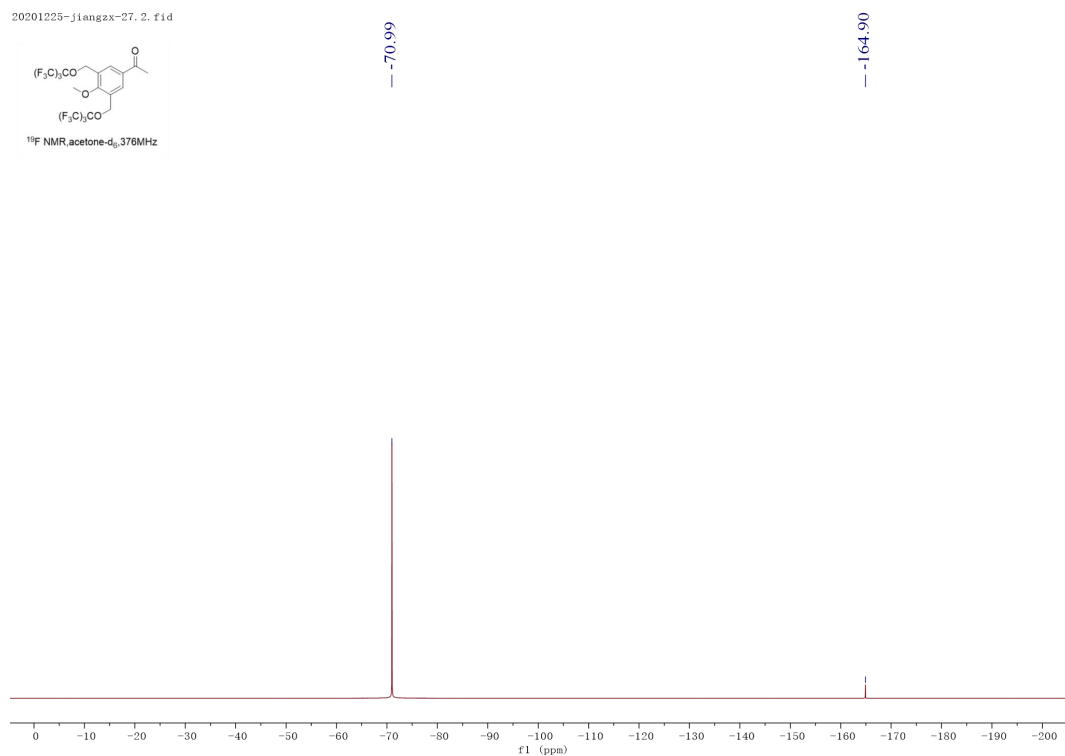
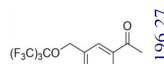
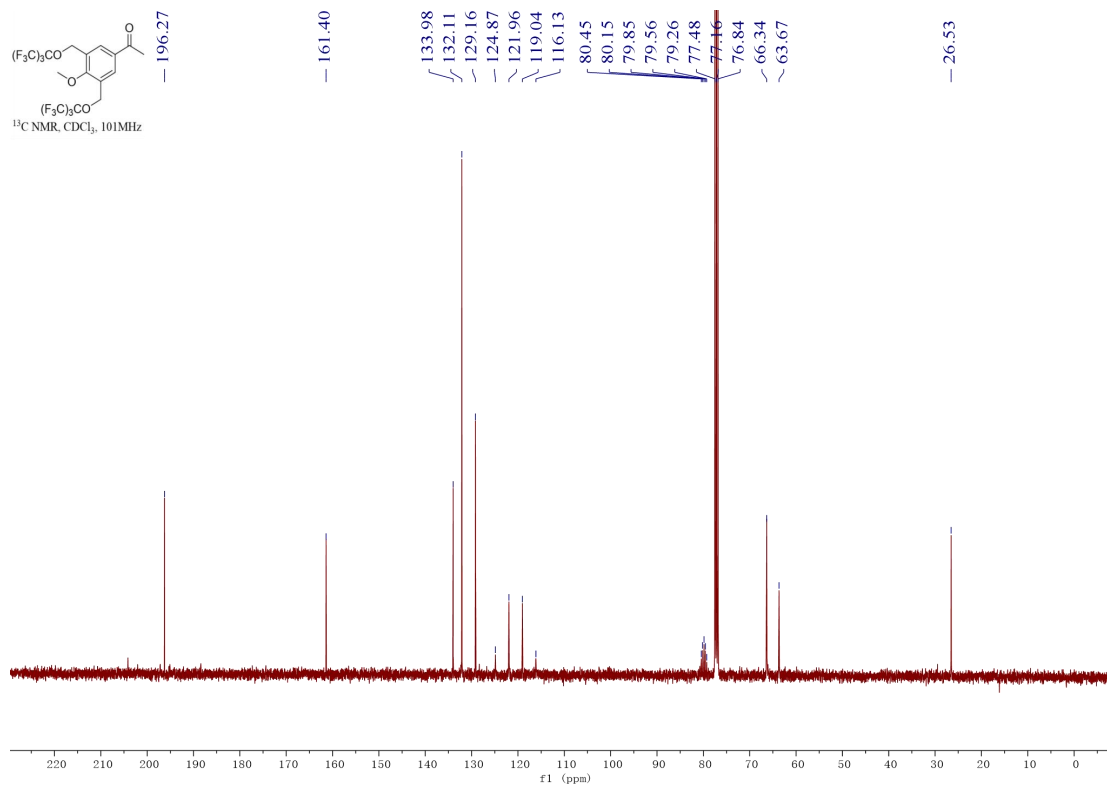


^1H NMR of compound **25**



^{19}F NMR of compound **25**

20201225-jiangzx-27. 2. fid

 ^{19}F NMR, acetone- d_6 , 376MHz **^{13}C NMR of compound **25**** ^{13}C NMR, CDCl_3 , 101MHz

HRMS of compound 25

8 #1069 RT: 10.84 AV: 1 NL: 9.17E5
T: FTMS + p ESI Full ms [150.0000-2000.0000]

