

Electronic Supplementary Information

Preparation and in vitro bioactivity evaluation of N-heterocyclic linked dihomooxacalix[4]arene derivatives

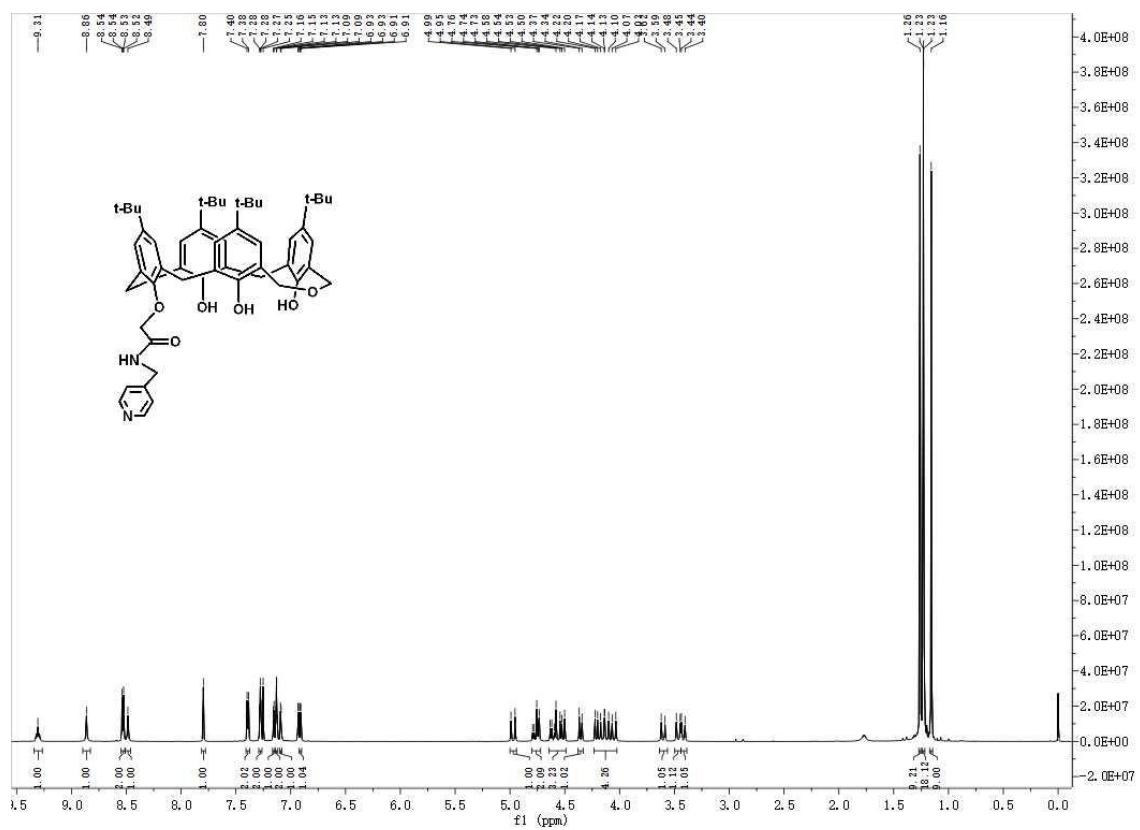
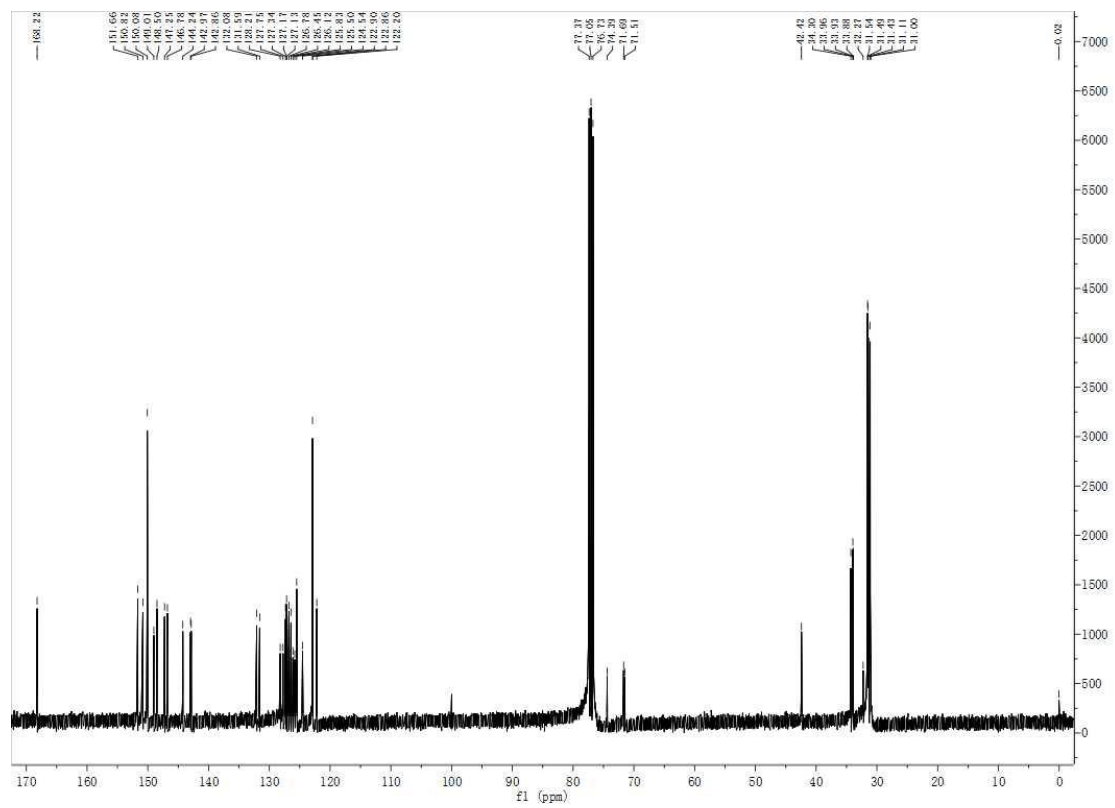
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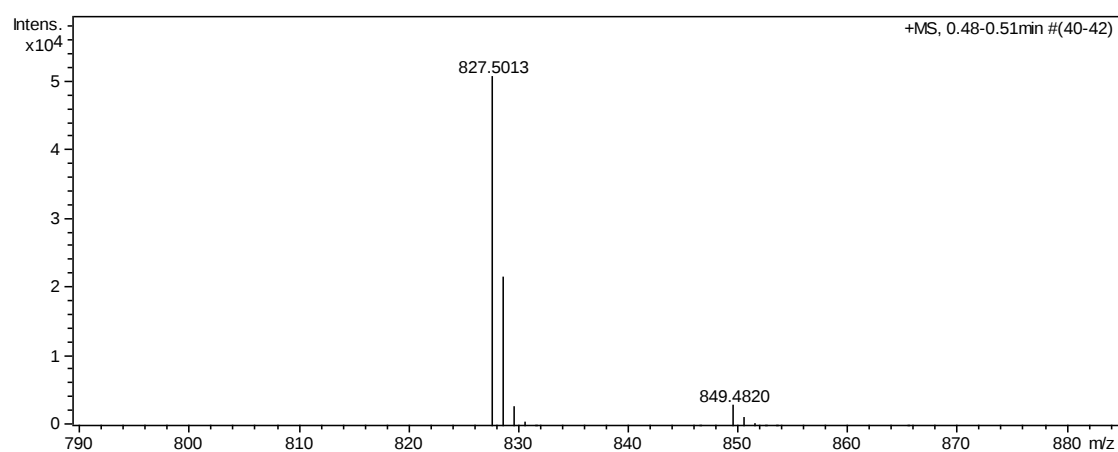
b. Jiangsu Key Laboratory of New Drug Research and Clinical Pharmacy, Xuzhou Medical University, Xuzhou 221004, P. R. China

The supporting information provides the ¹H NMR, ¹³C NMR and HRMS spectra of compounds **4a-4n**. All compounds were dissolved in CDCl₃ or DMSO-*d*₆ and the ¹H and ¹³C NMR spectra were recorded at 400 MHz on a Bruker AV-400 spectrometer. HRMS data were obtained using a (UHR-TOF) maXis 4G instrument.

¹H NMR of 4a

 ^{13}C NMR of **4a**

HRMS of **4a**

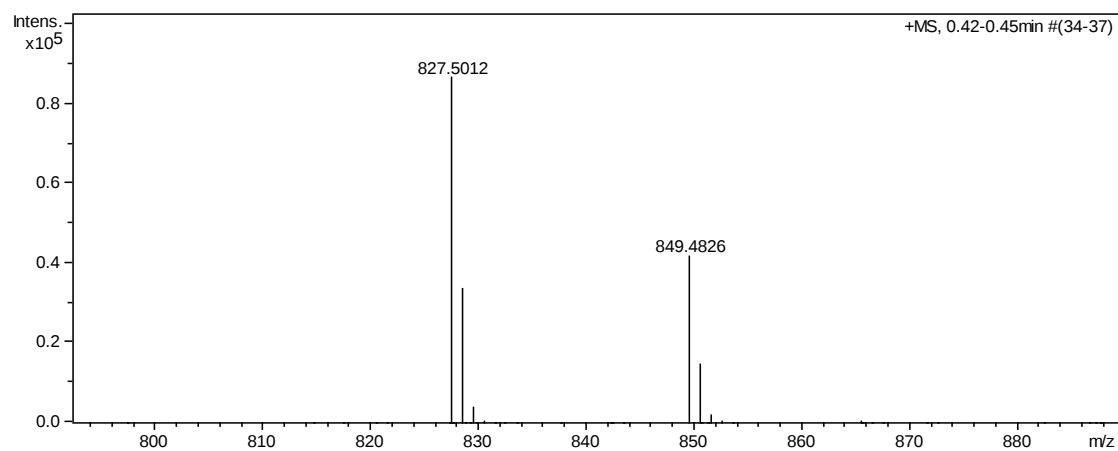


Chemical structure of compound 10 is shown in the top left. The ¹H NMR spectrum (CDCl₃) is displayed below the structure. The x-axis represents the chemical shift in ppm (f1), ranging from 0.0 to 9.5. The y-axis represents the intensity, ranging from 0.0E+00 to 6.0E+08. Integration values are provided below the baseline, and peak lists with chemical shifts are on the right.

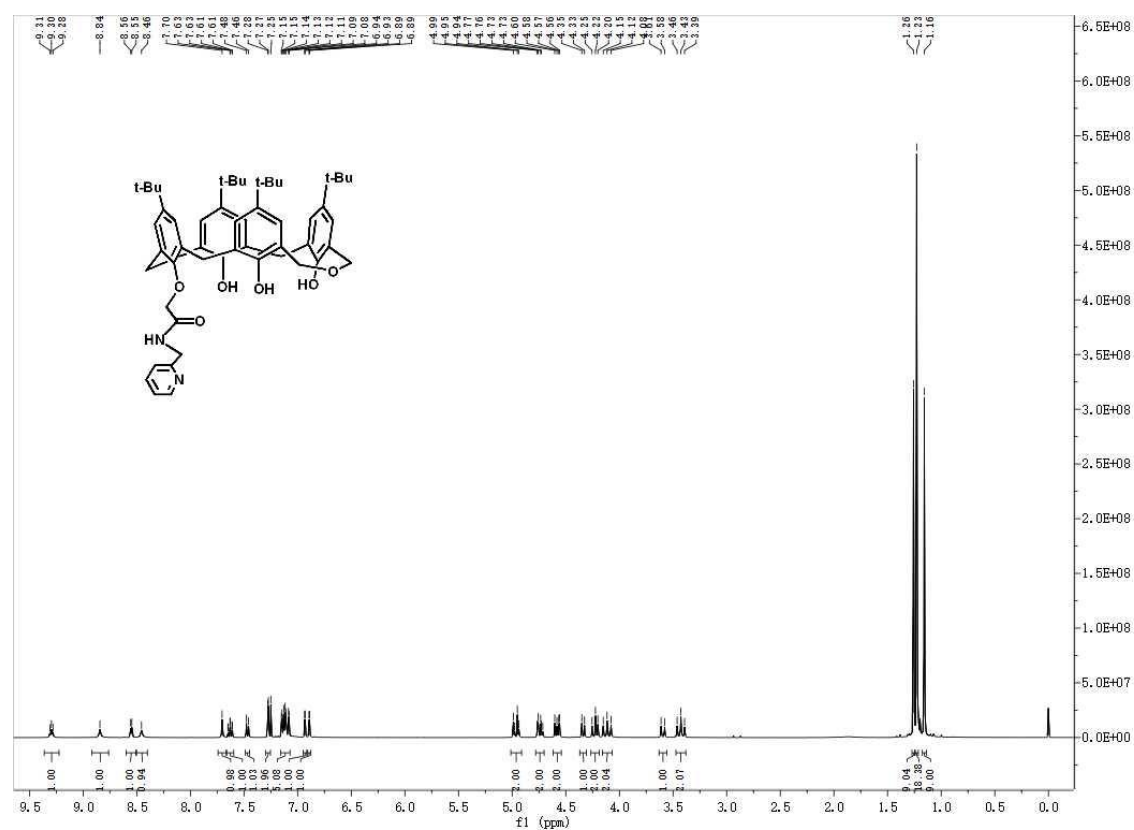
Chemical shift values (ppm) labeled on the spectrum:

- 163.99
- 151.69
- 150.89
- 149.84
- 148.82
- 148.30
- 148.49
- 147.20
- 142.90
- 142.71
- 138.51
- 133.51
- 132.10
- 131.62
- 127.70
- 127.30
- 127.10
- 126.76
- 126.38
- 125.72
- 125.56
- 125.44
- 124.44
- 123.63
- 122.91
- 122.84
- 77.37
- 77.05
- 76.34
- 71.74
- 71.49
- 40.98
- 37.53
- 33.93
- 33.88
- 31.55
- 31.51
- 31.11
- 30.93

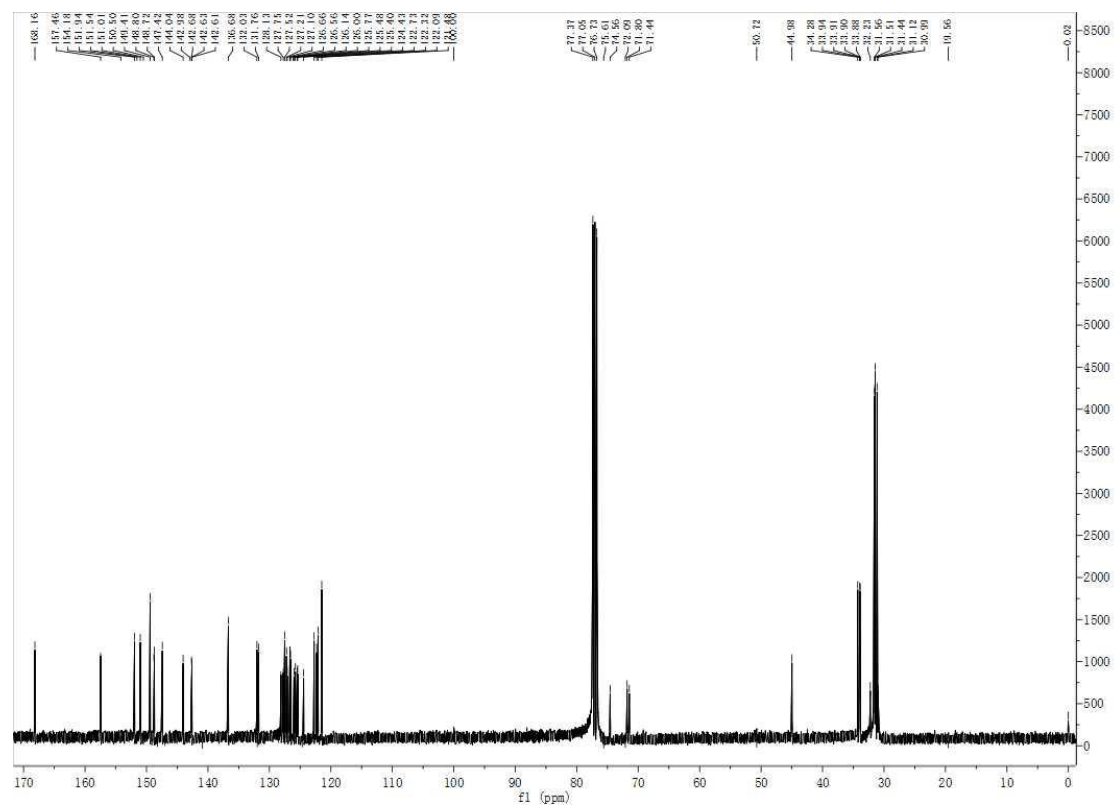
HRMS of **4b**



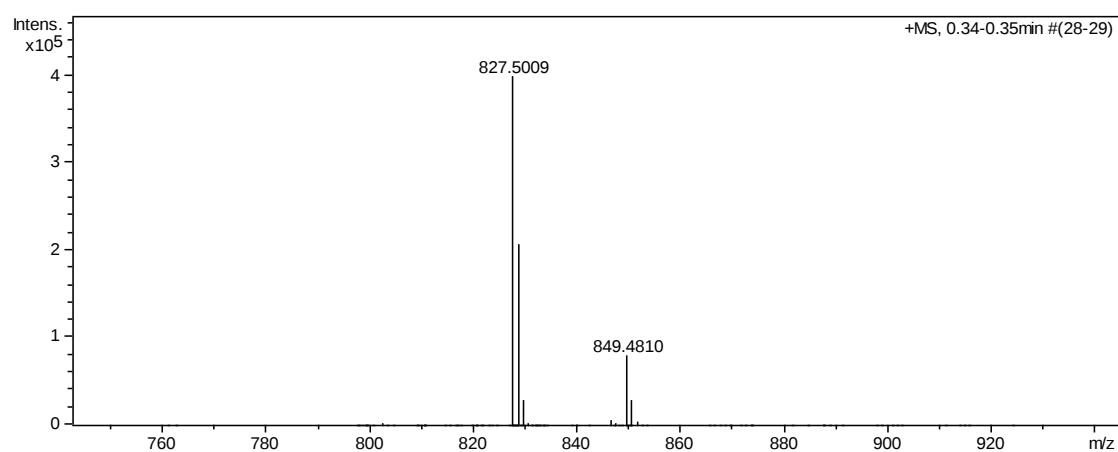
¹H NMR of 4c



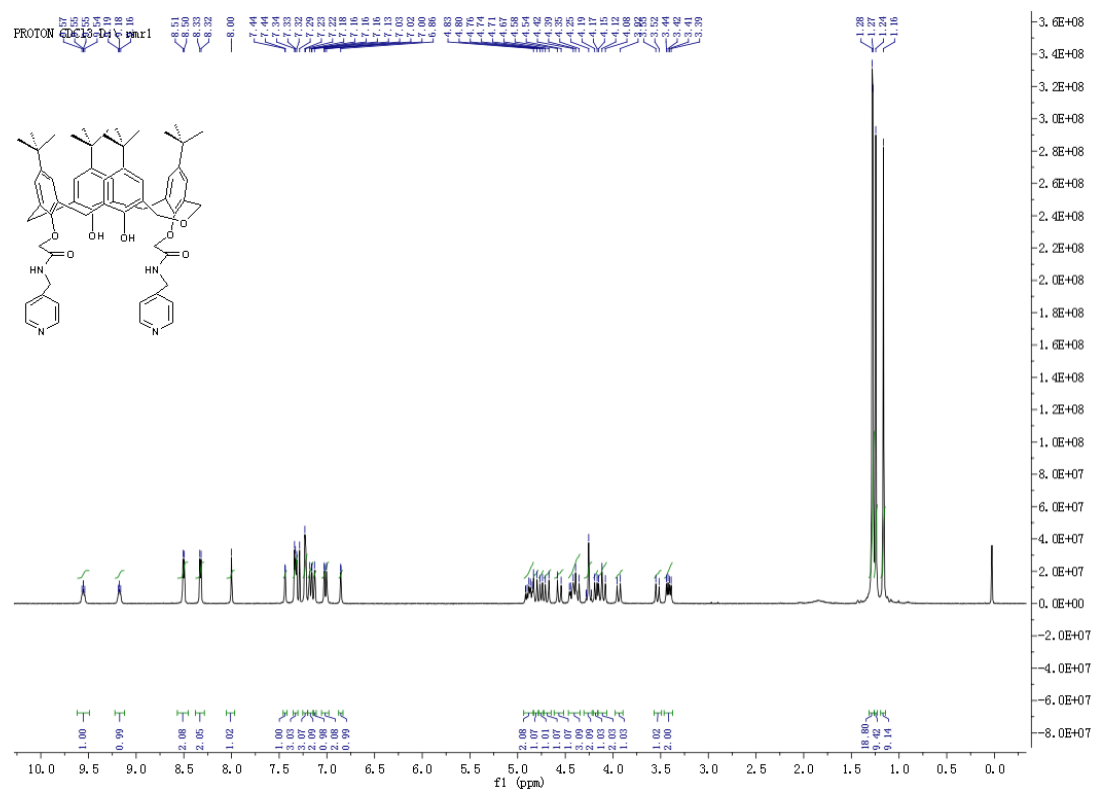
¹³C NMR of 4c



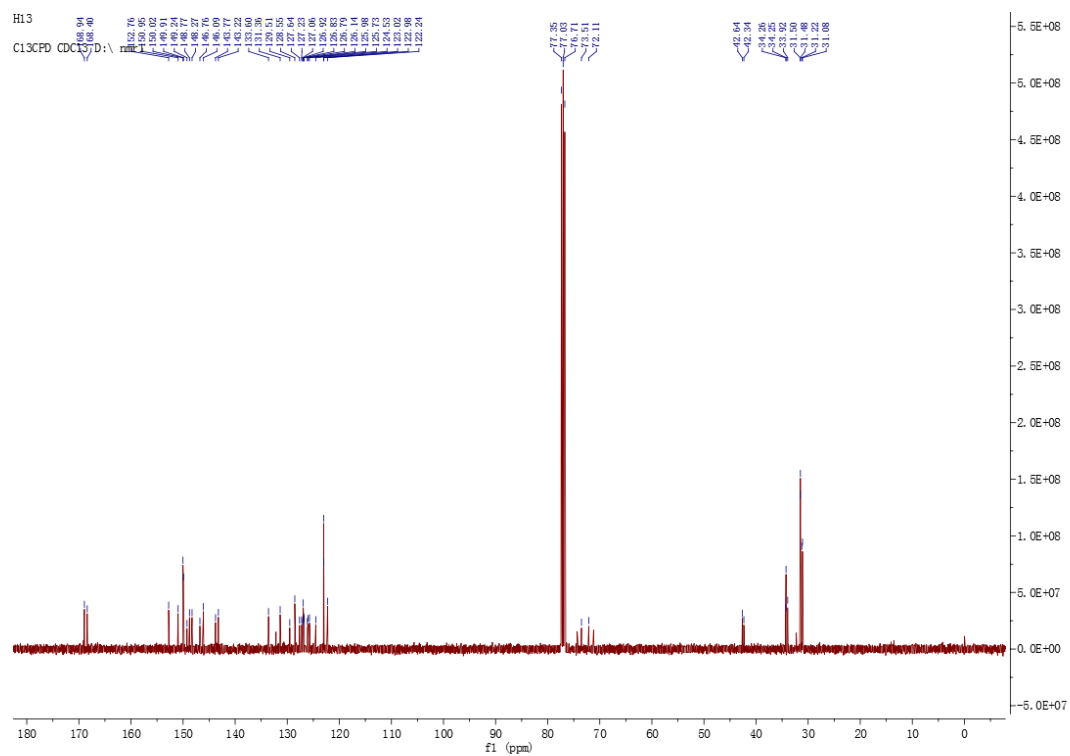
HRMS of 4c



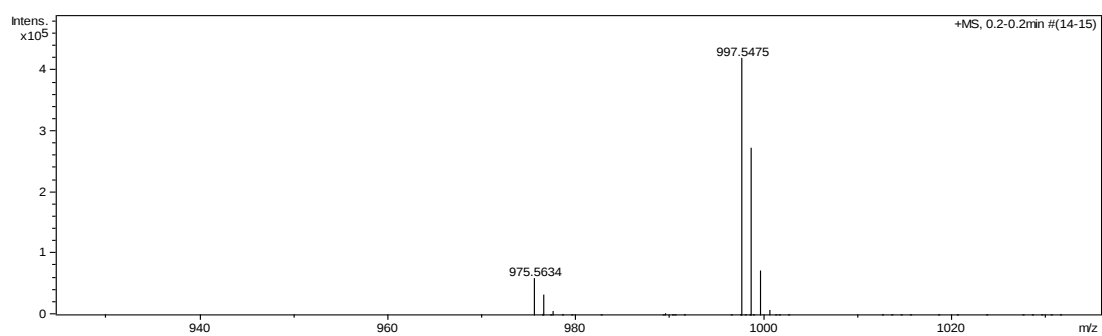
¹H NMR of 4d



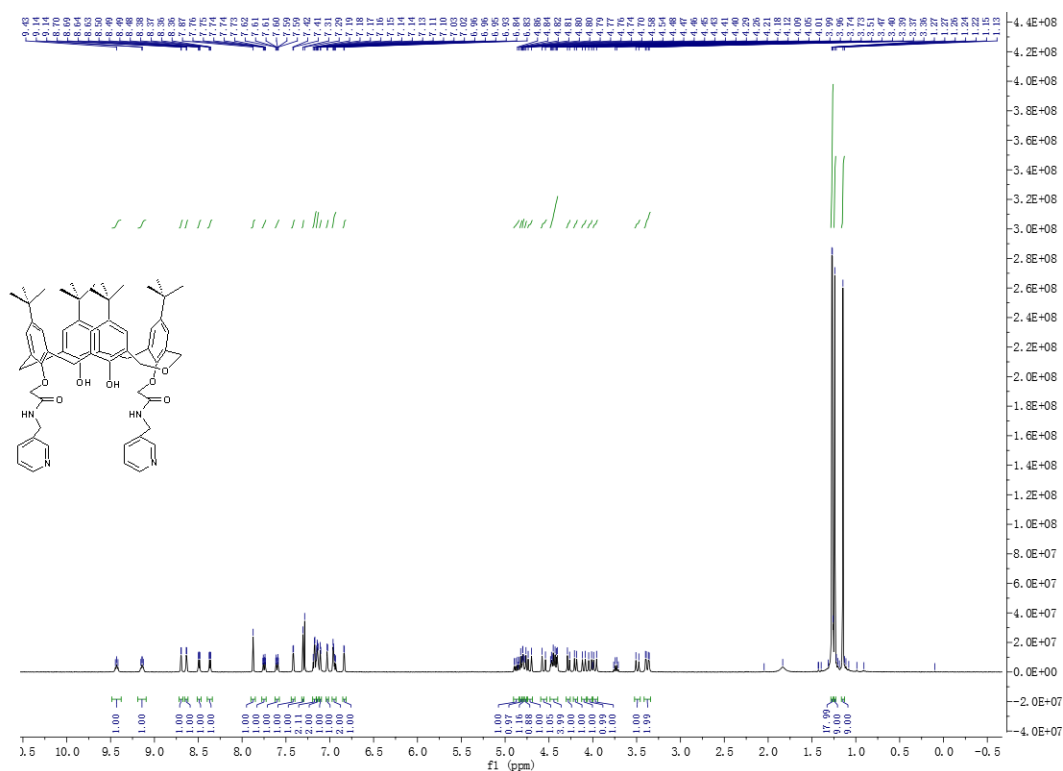
¹³C NMR of 4d



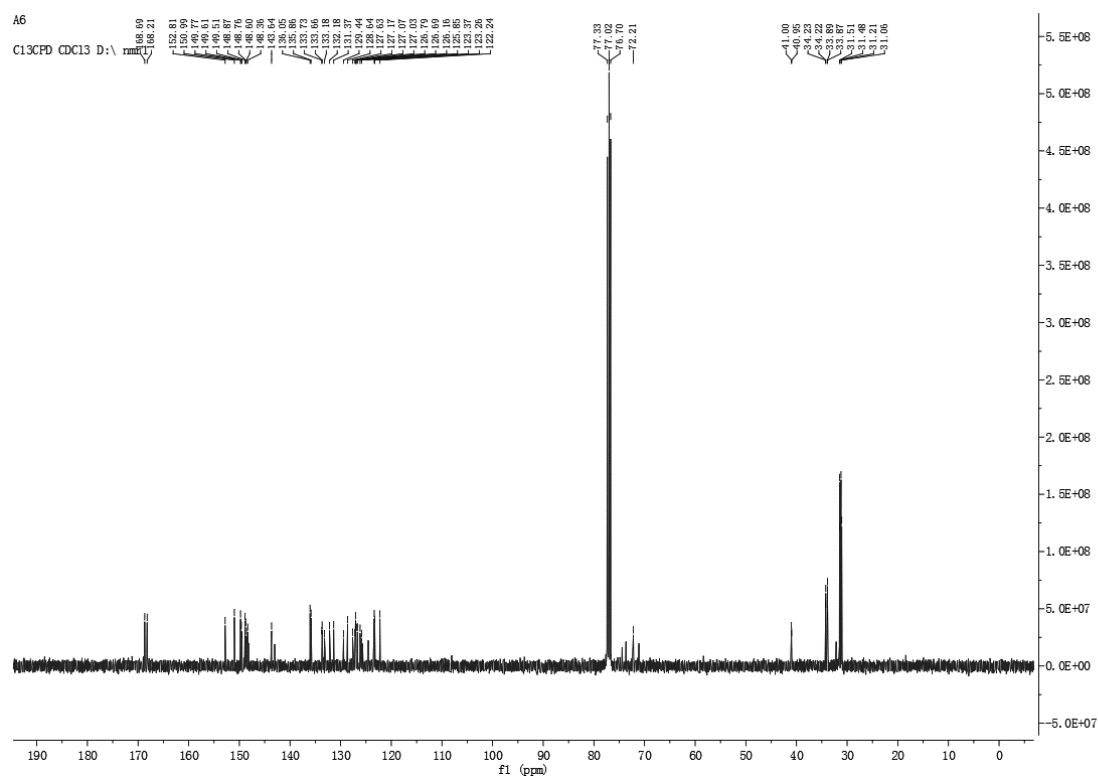
HRMS of **4d**



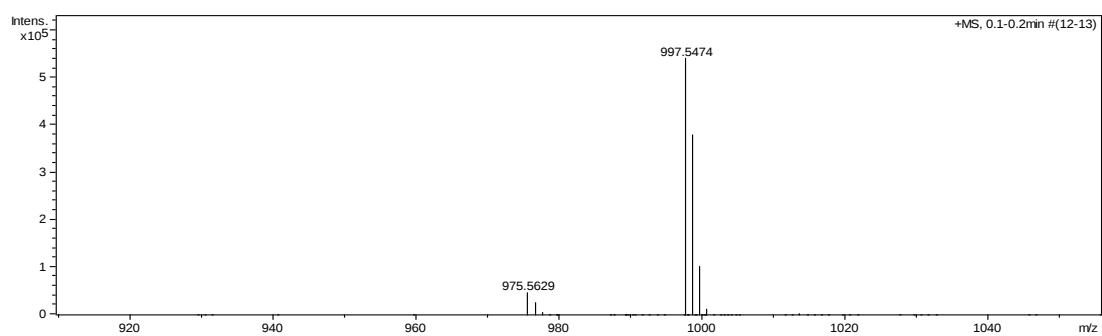
¹H NMR of 4e



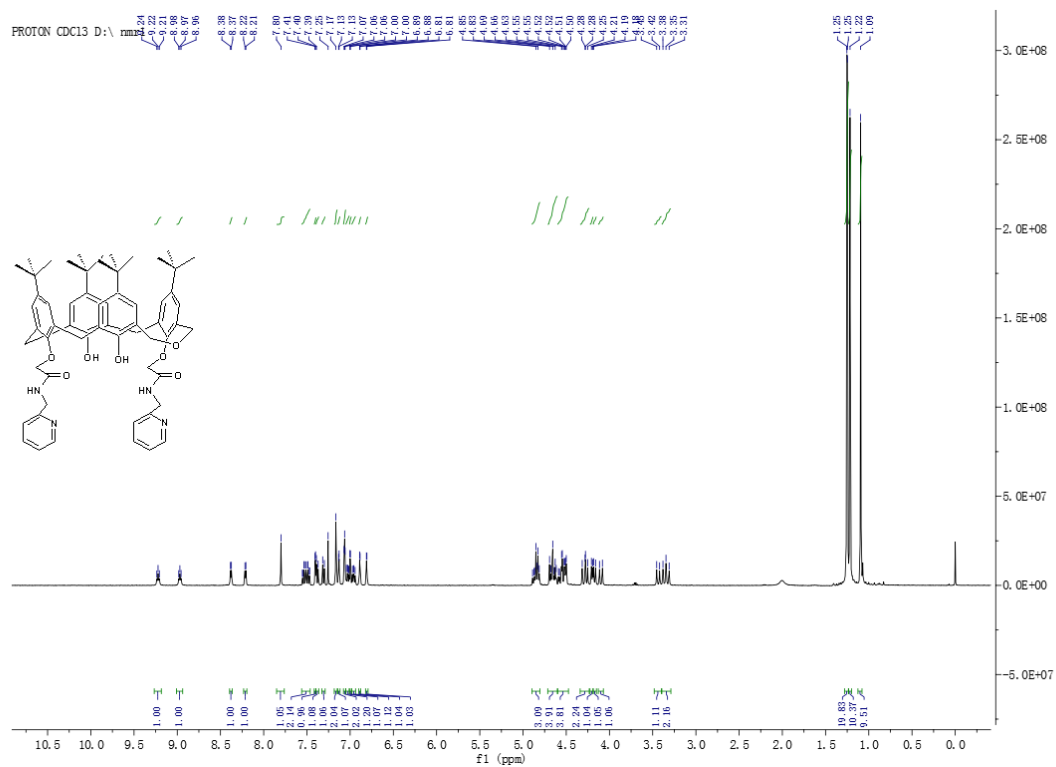
¹³C NMR of 4e



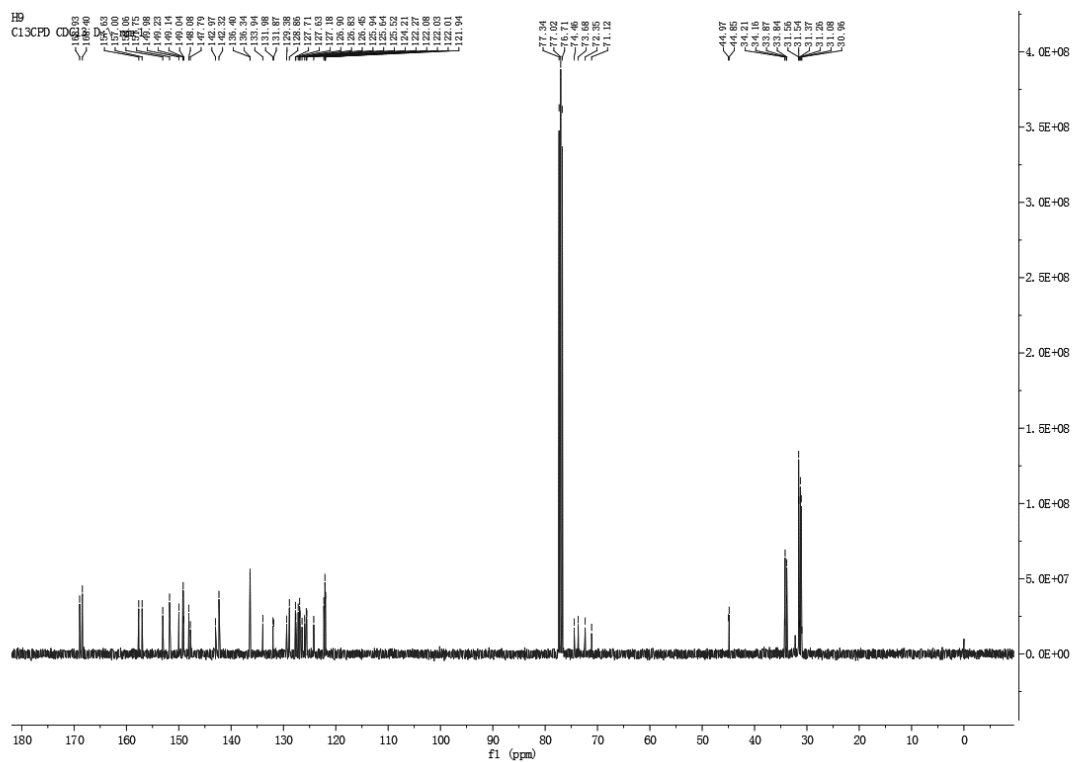
HRMS of 4e



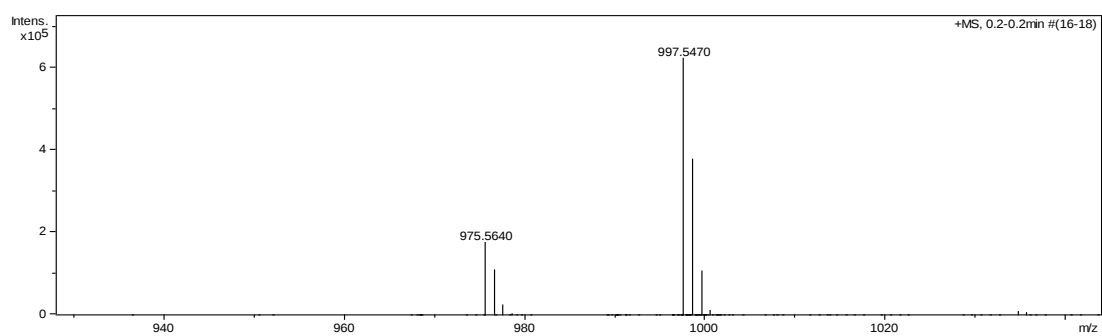
¹H NMR of 4f

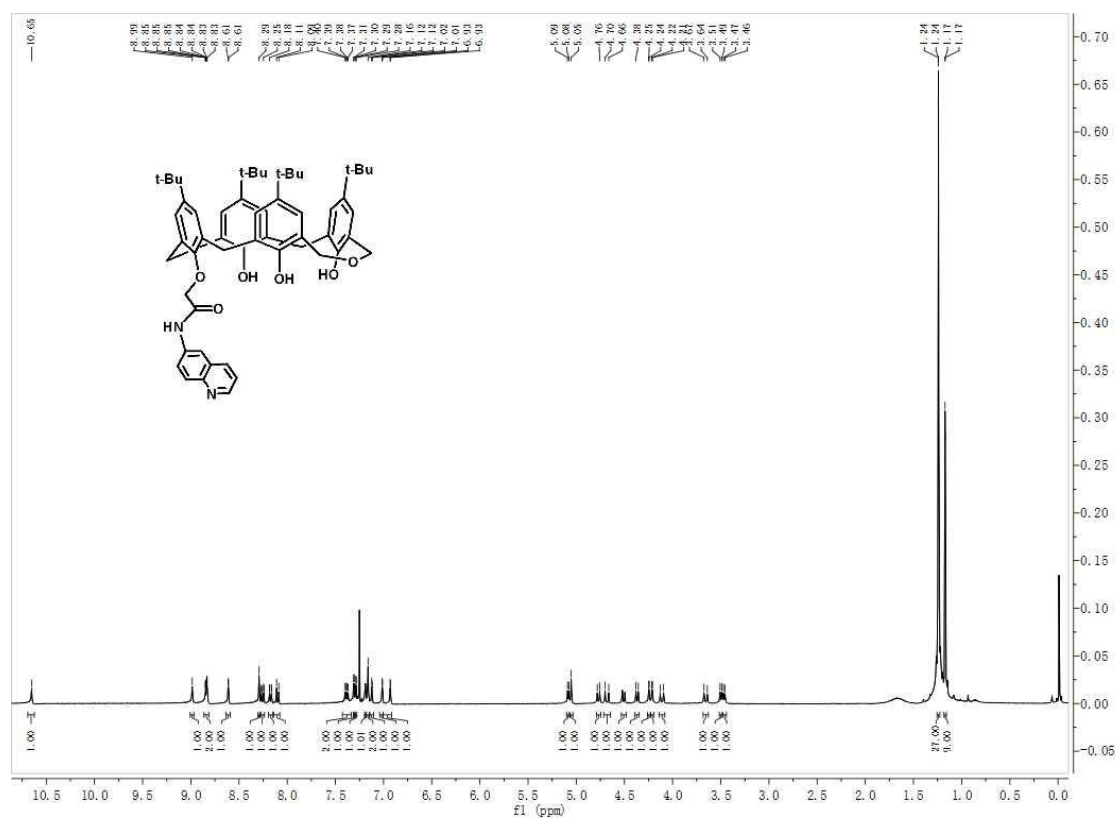
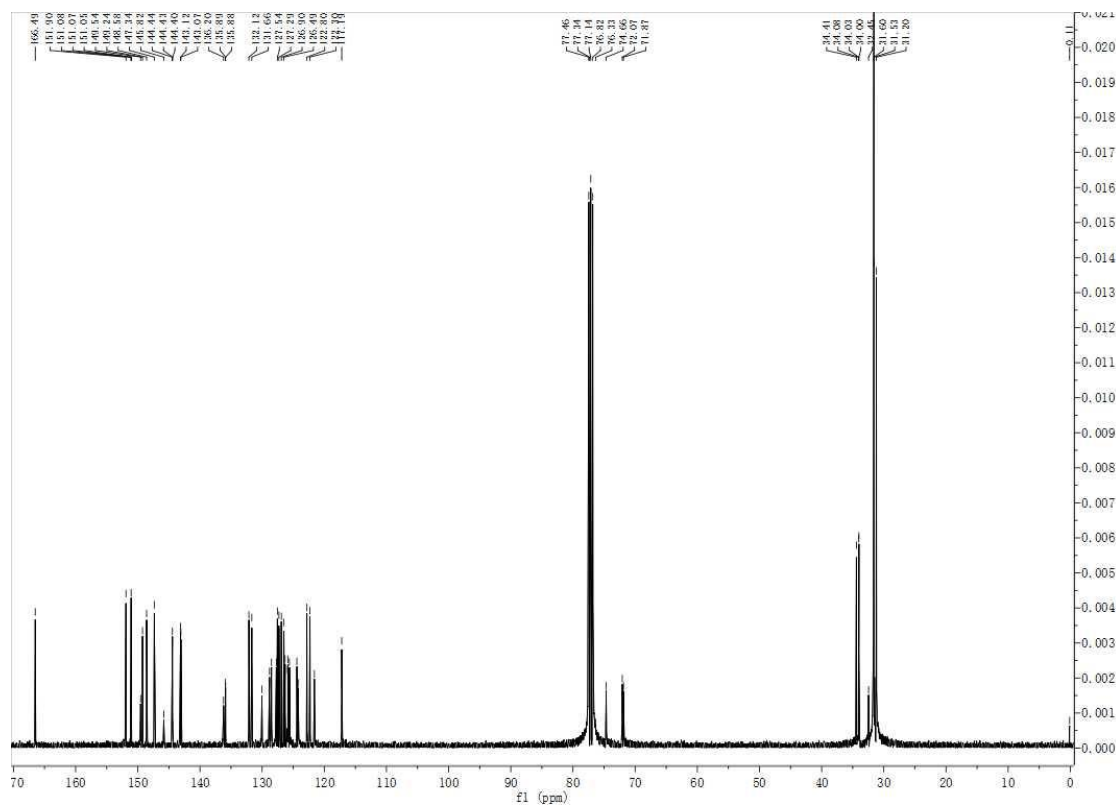


¹³C NMR of 4f

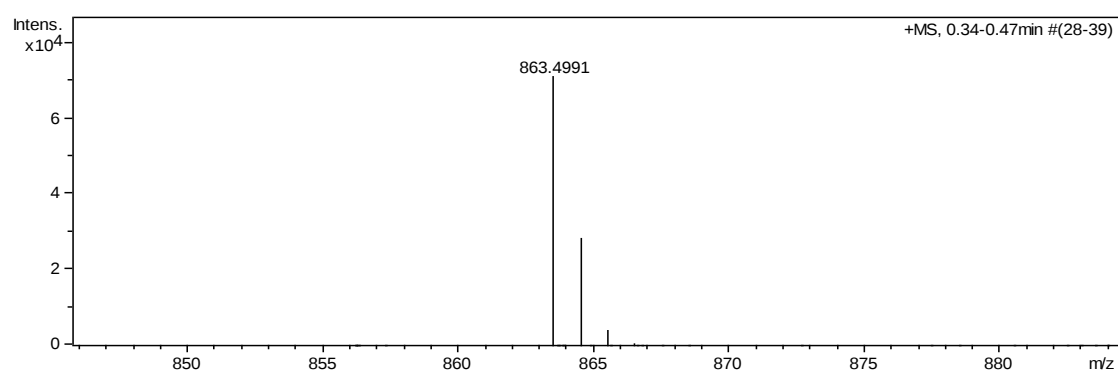


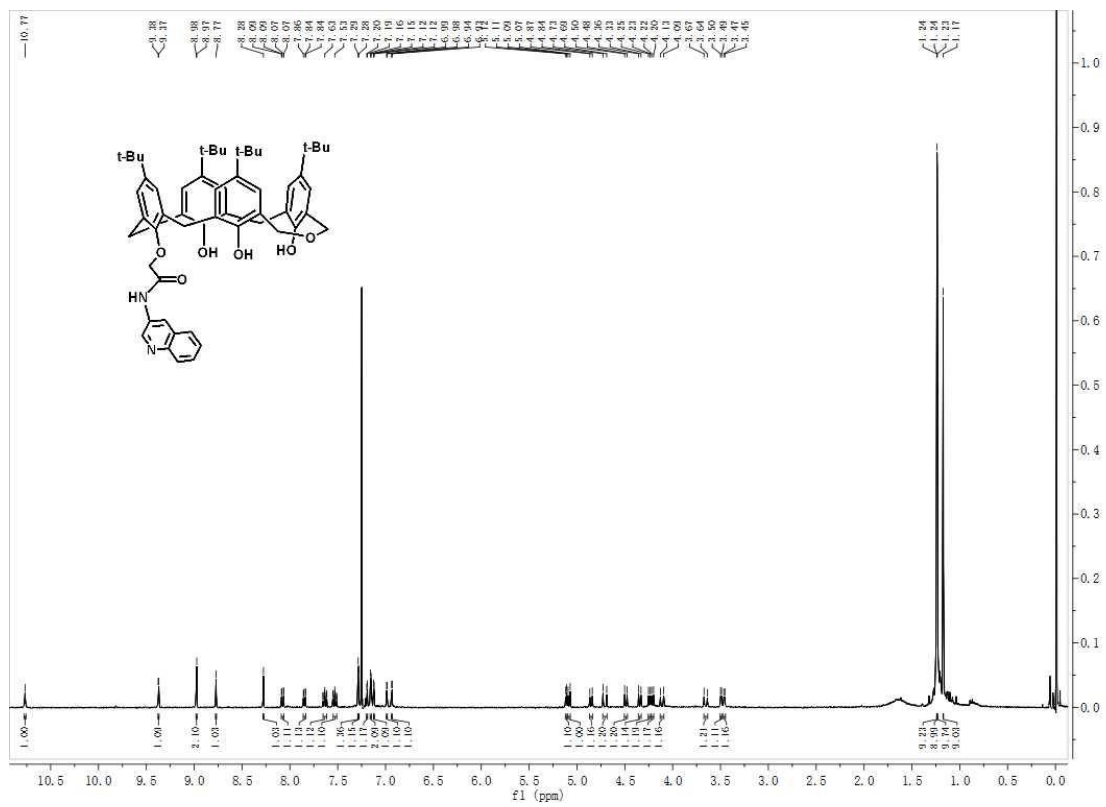
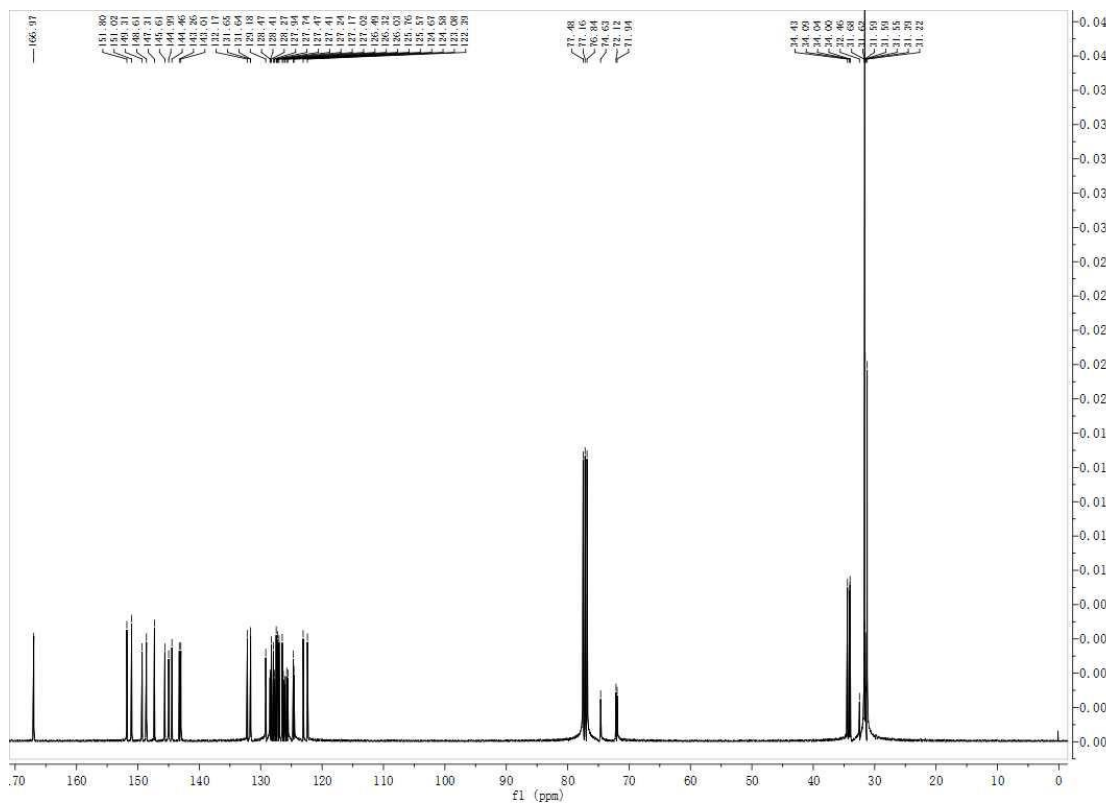
HRMS of **4f**



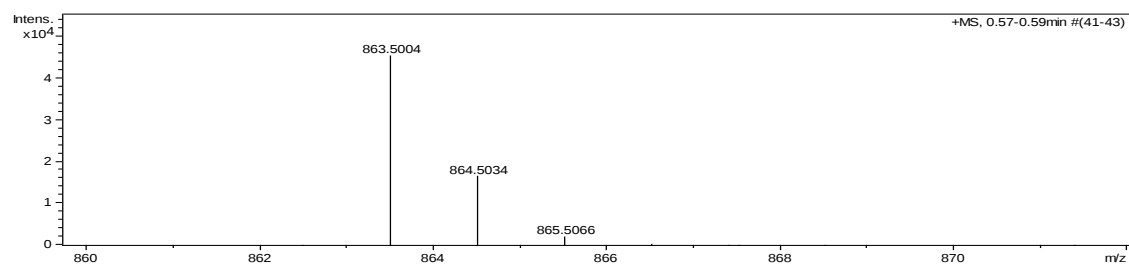
¹H NMR of **4g** ^{13}C NMR of **4g**

HRMS of 4g

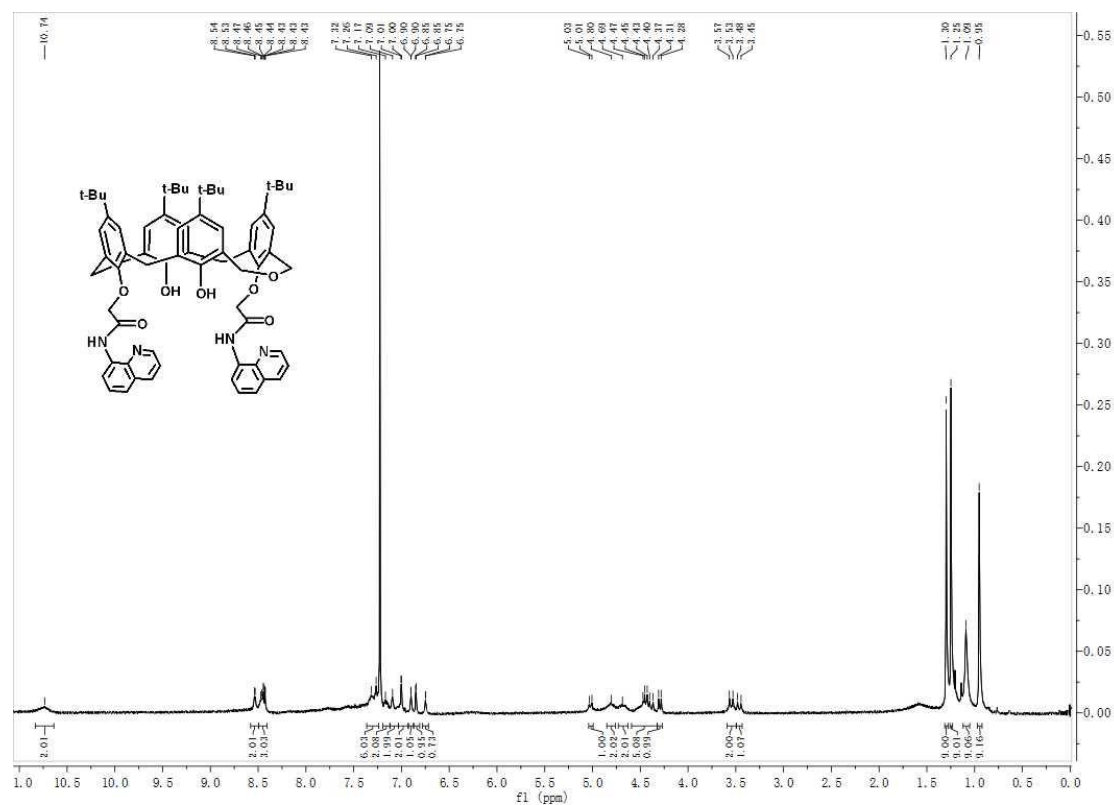


¹H NMR of **4h** ^{13}C NMR of **4h**

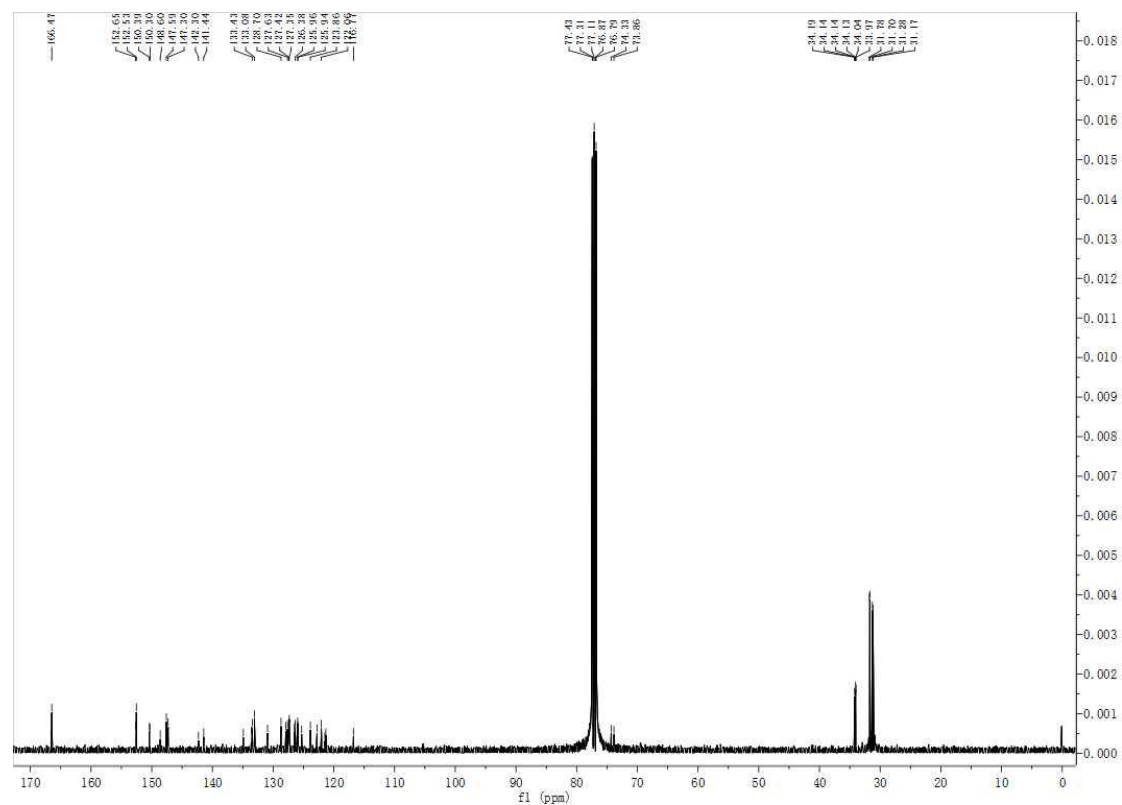
HRMS of **4h**



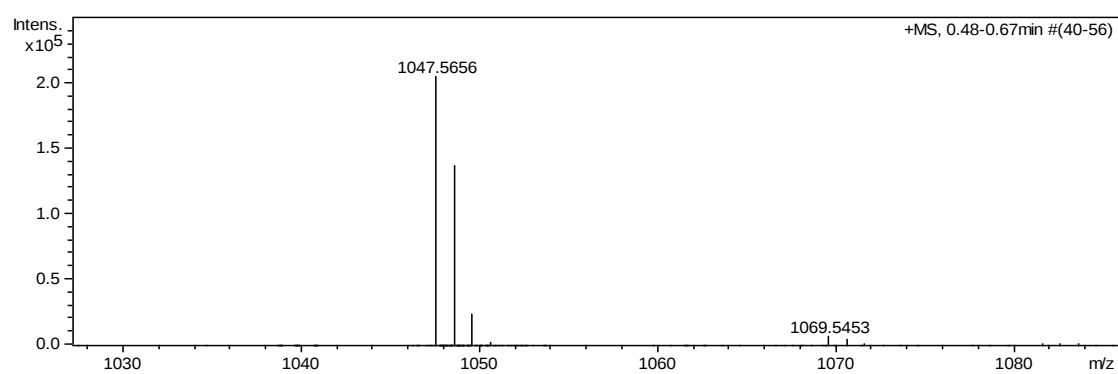
¹H NMR of 4i

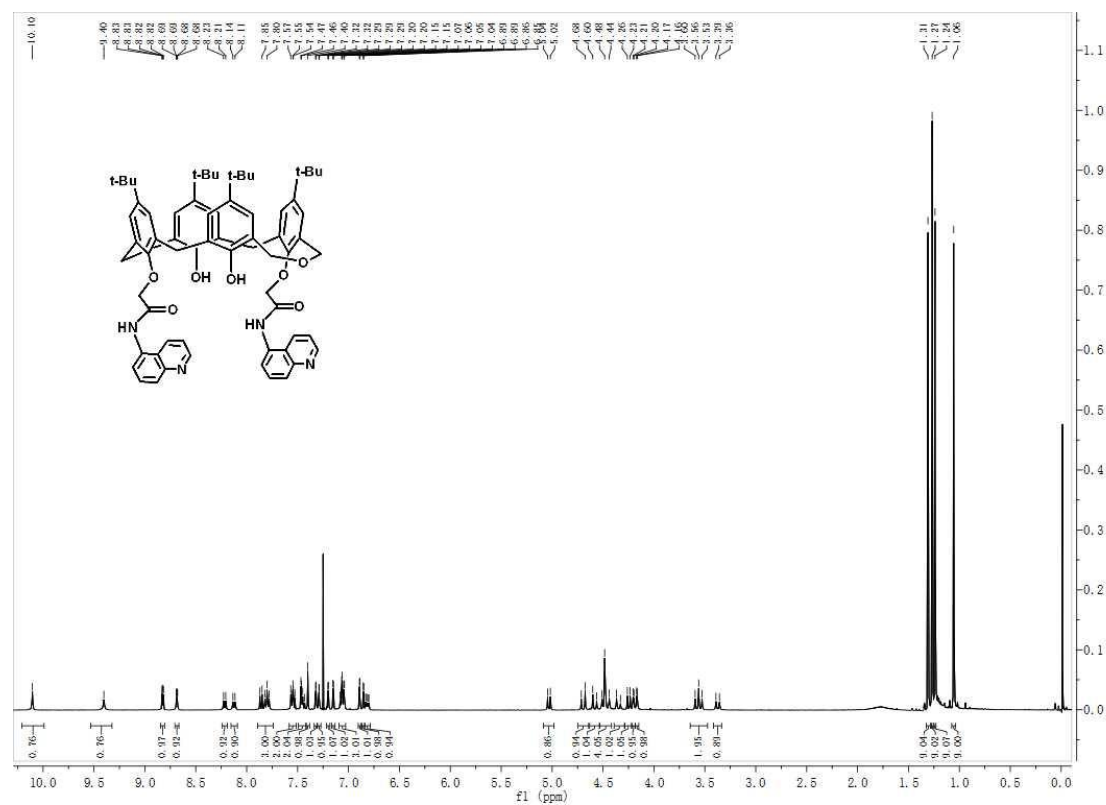
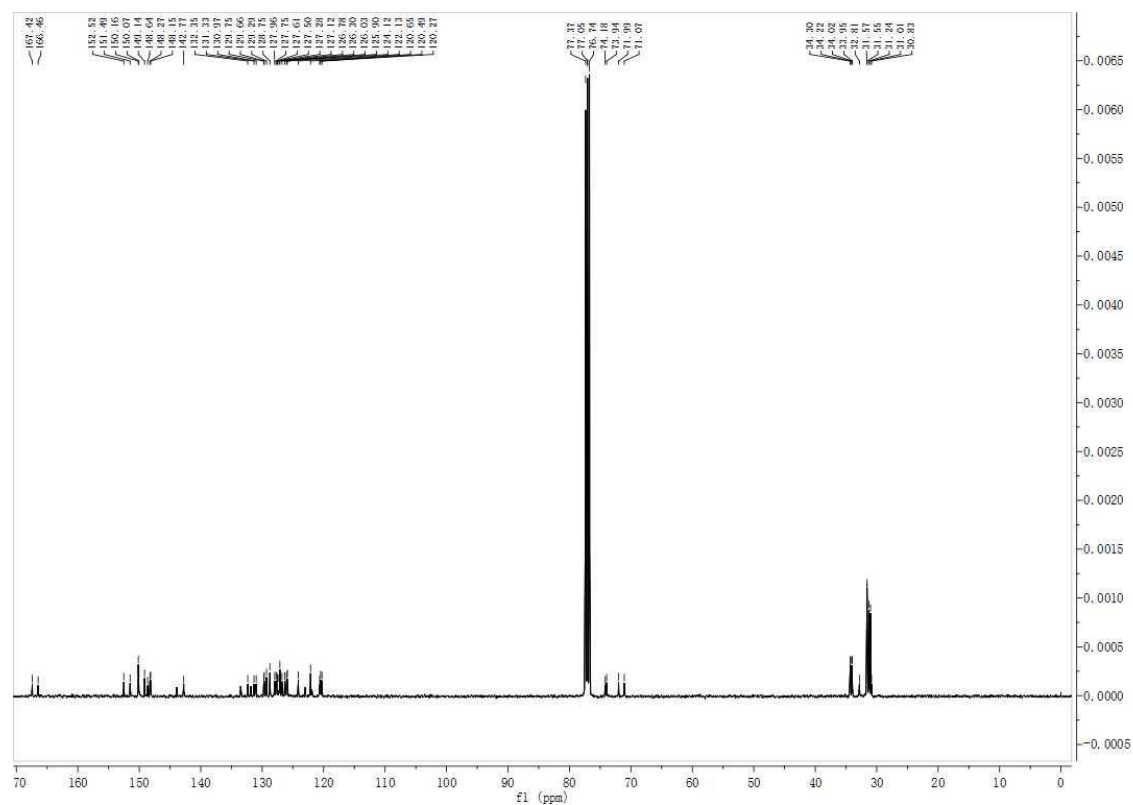


¹³C NMR of 4i

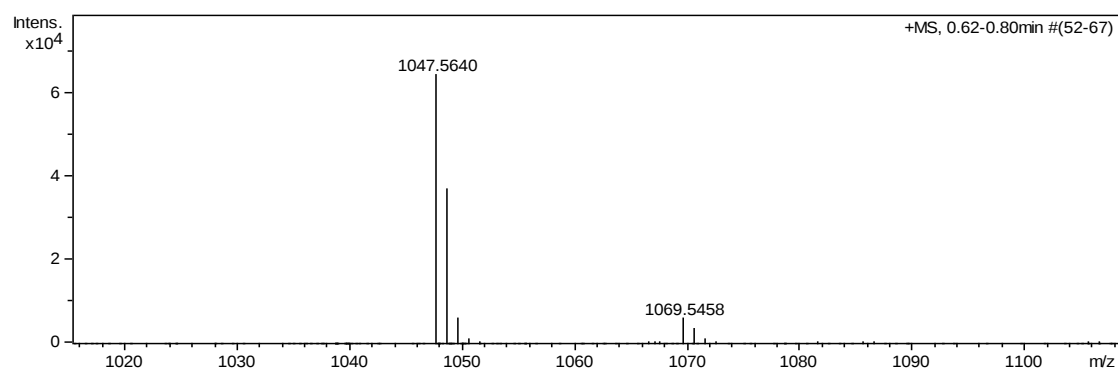


HRMS of **4i**

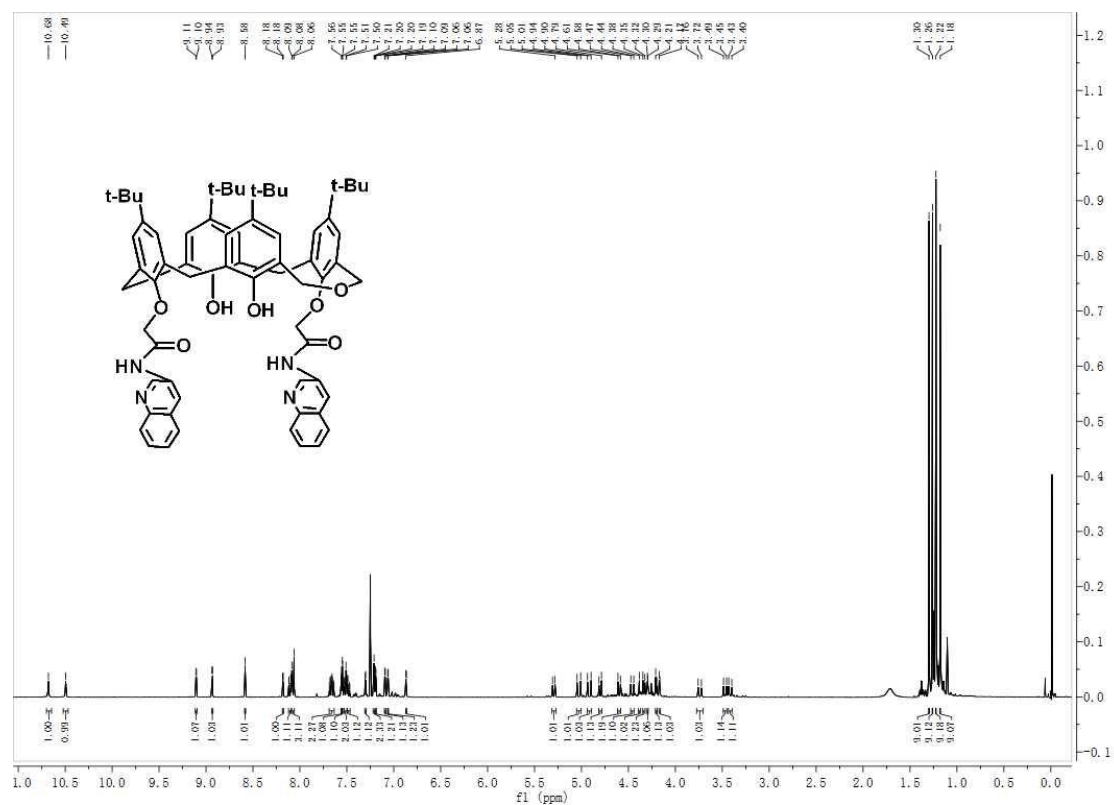


¹H NMR of **4j** ^{13}C NMR of **4j**

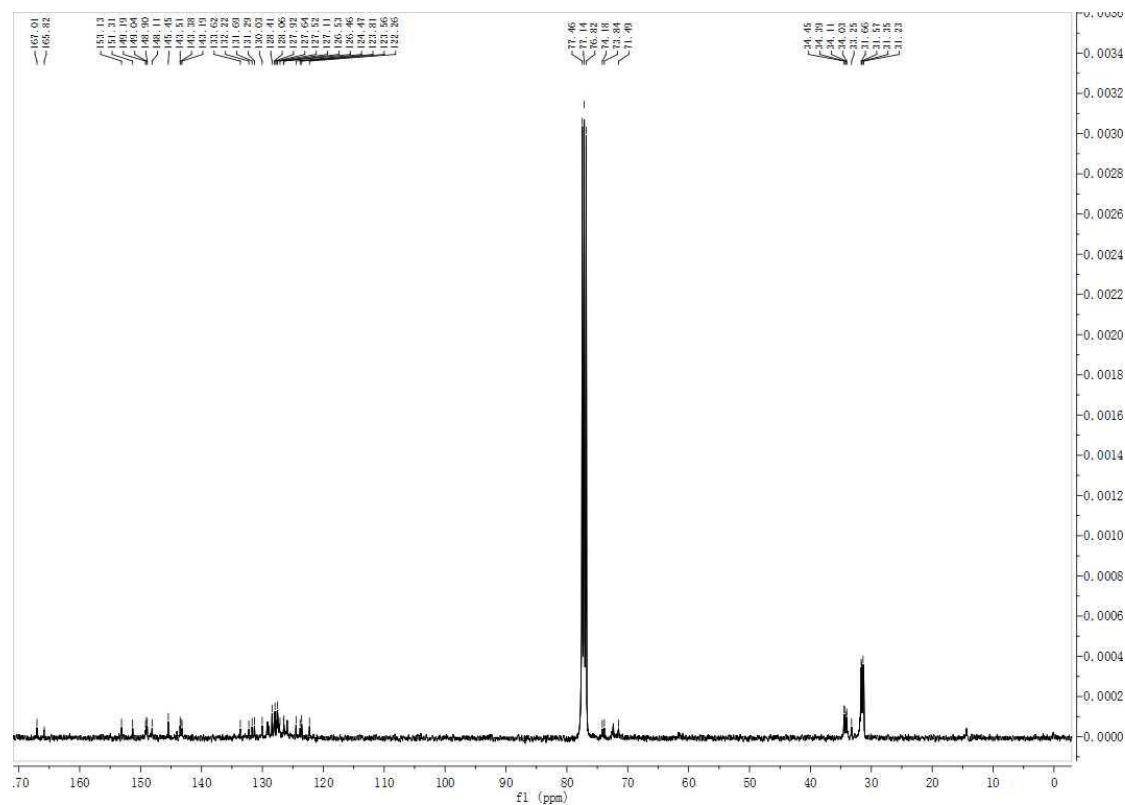
HRMS of 4j



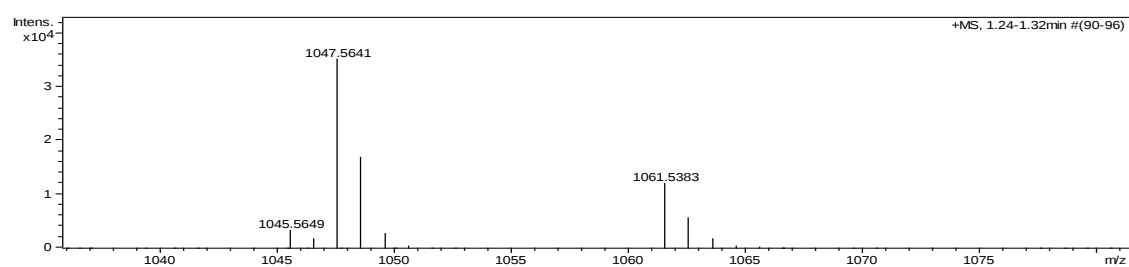
¹H NMR of **4k**



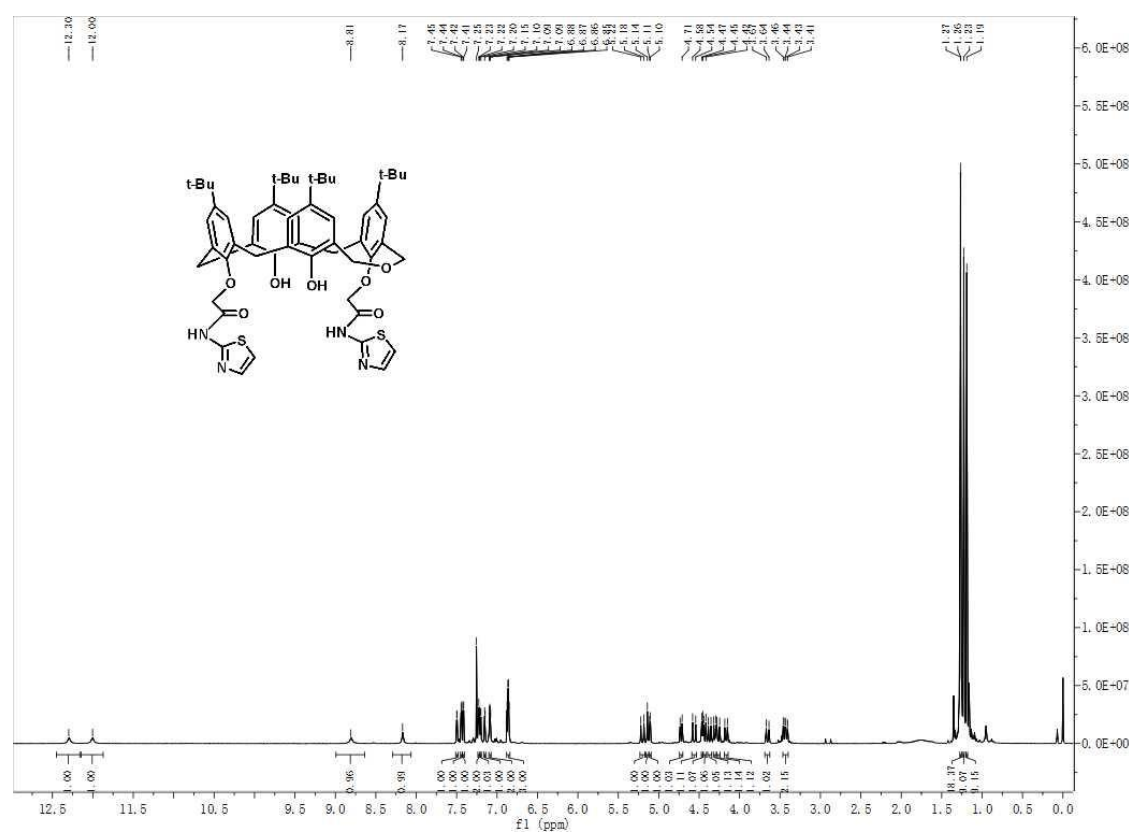
¹³C NMR of **4k**



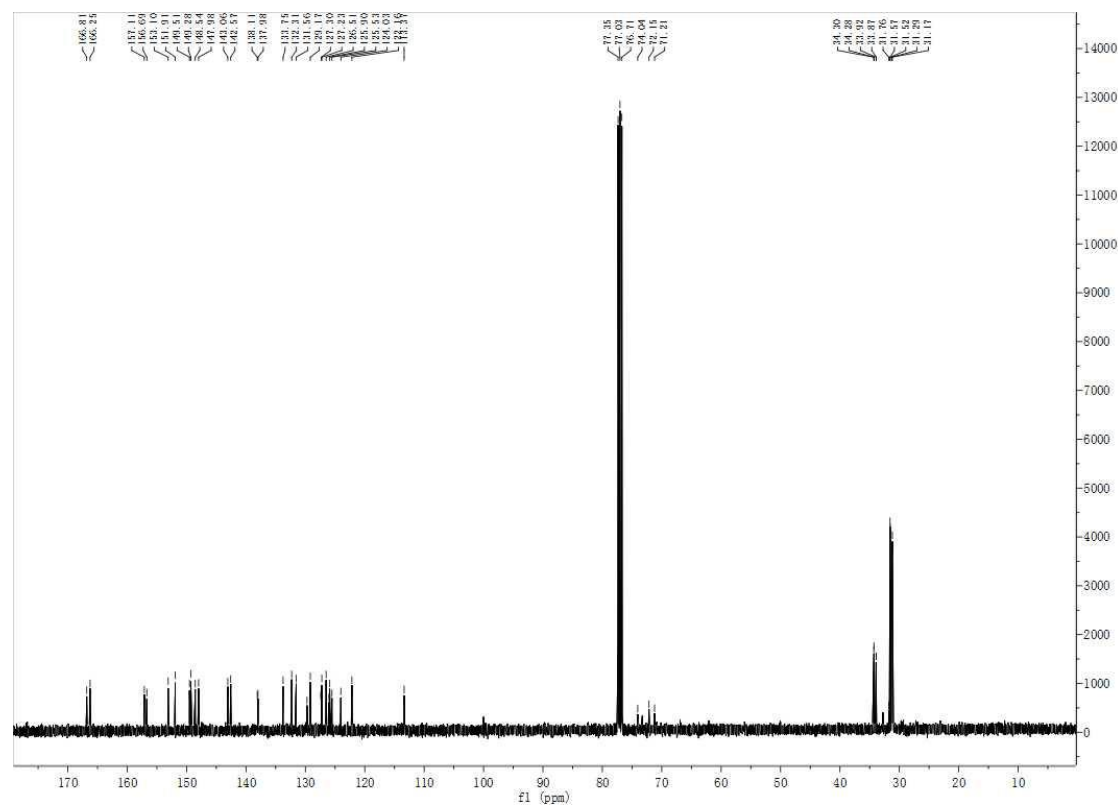
HRMS of **4k**



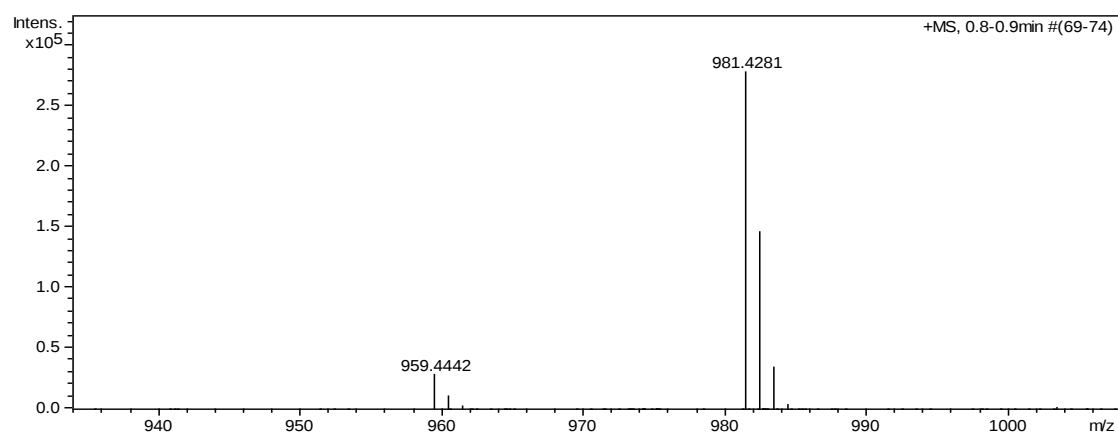
¹H NMR of 4l

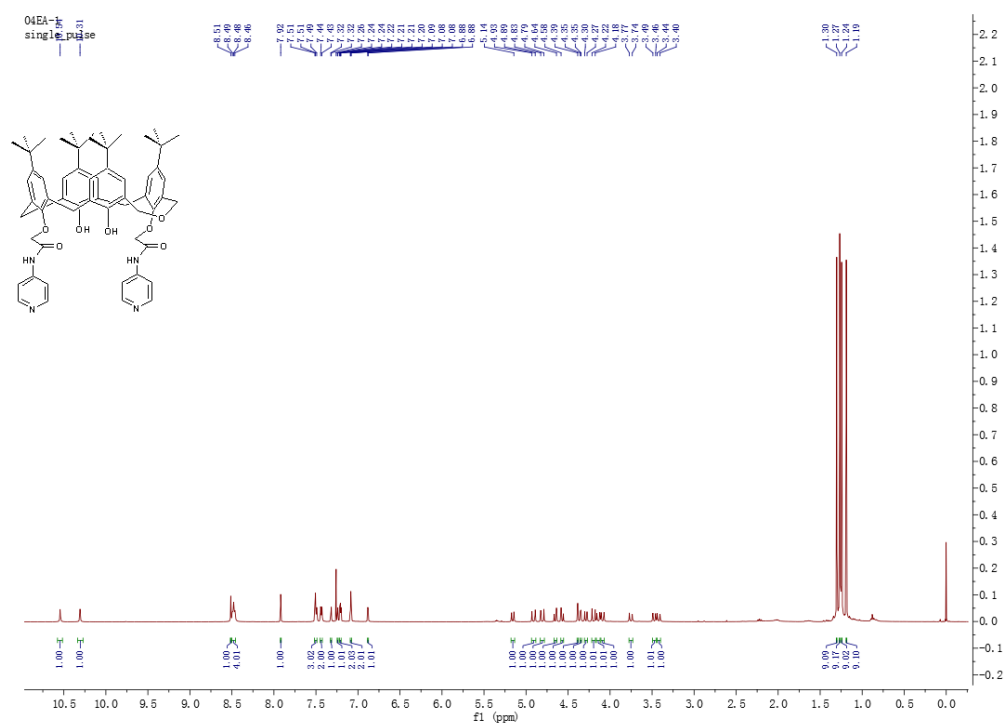
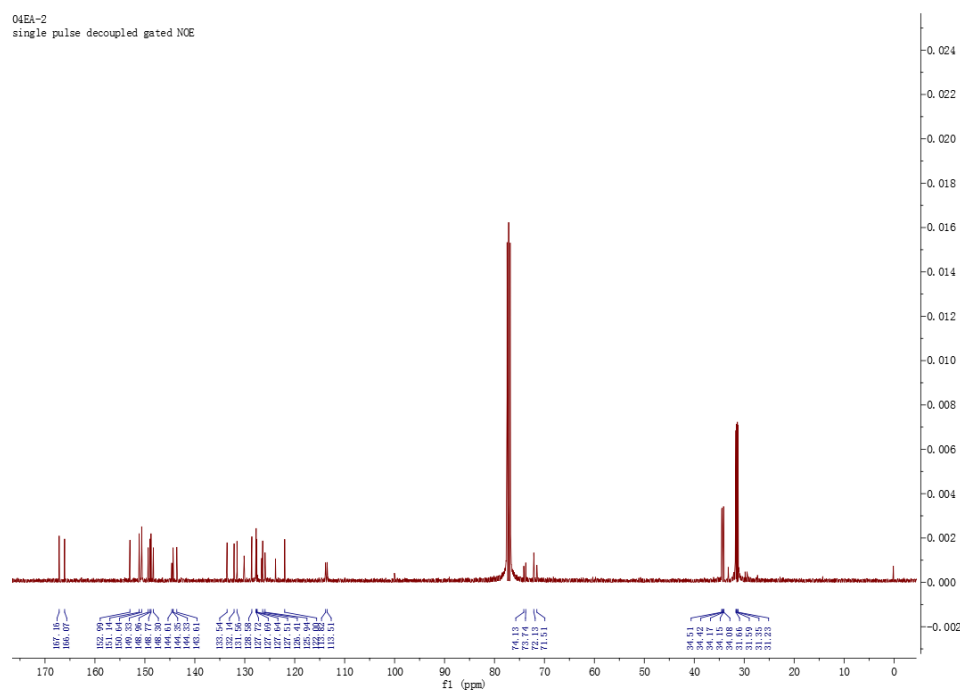


¹³C NMR of 4l

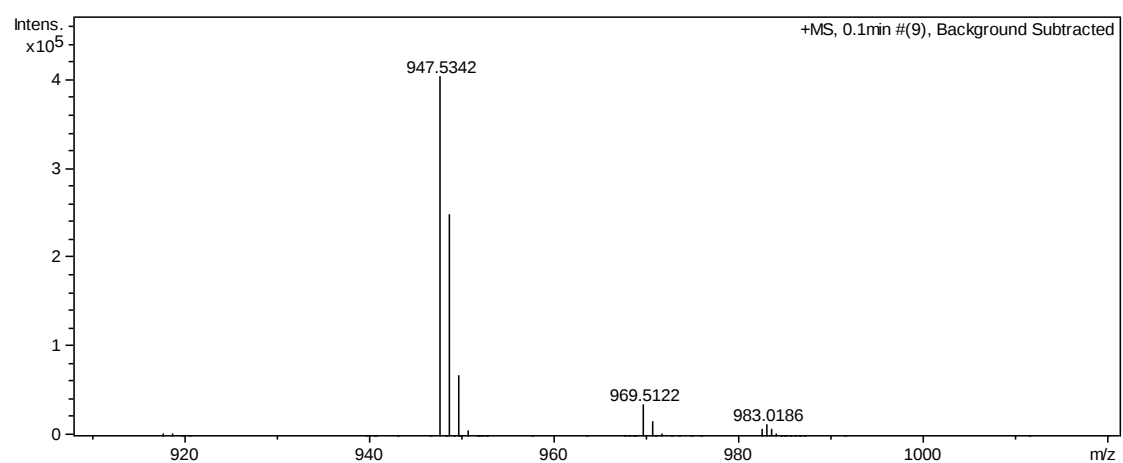


HRMS of 4l

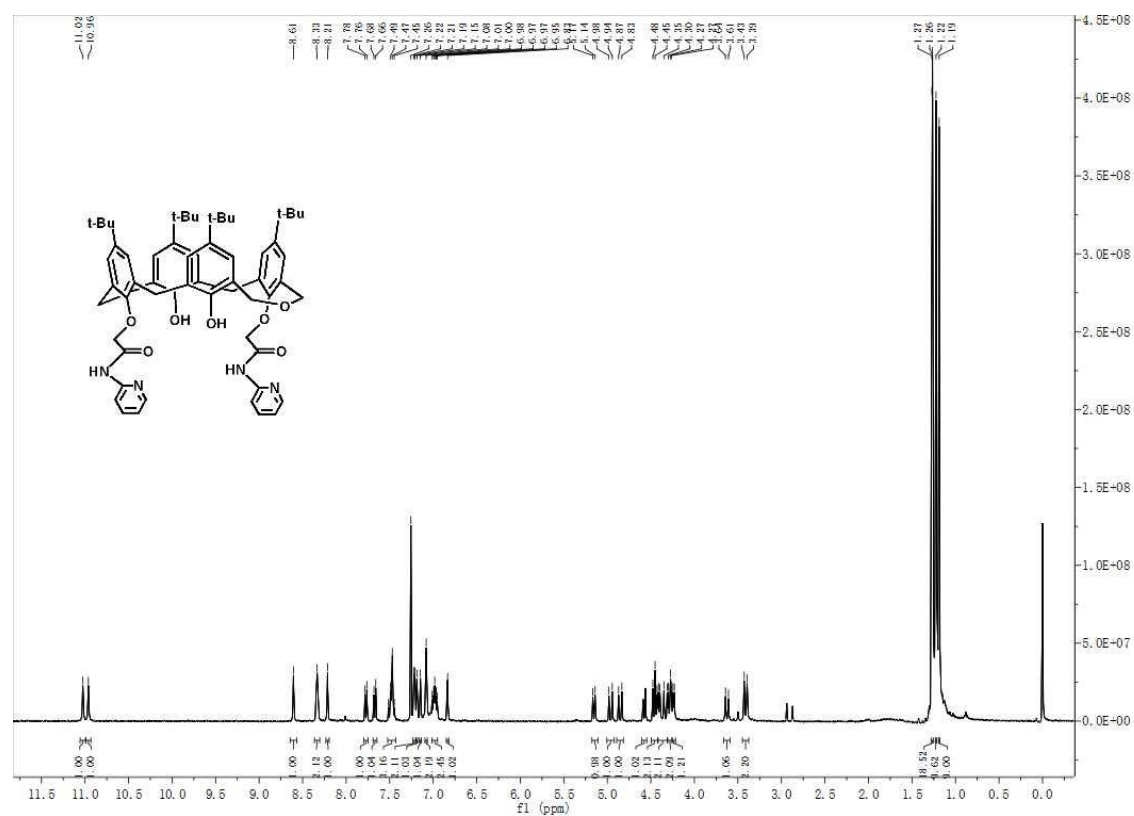


^1H NMR of **4m** ^{13}C NMR of **4m**

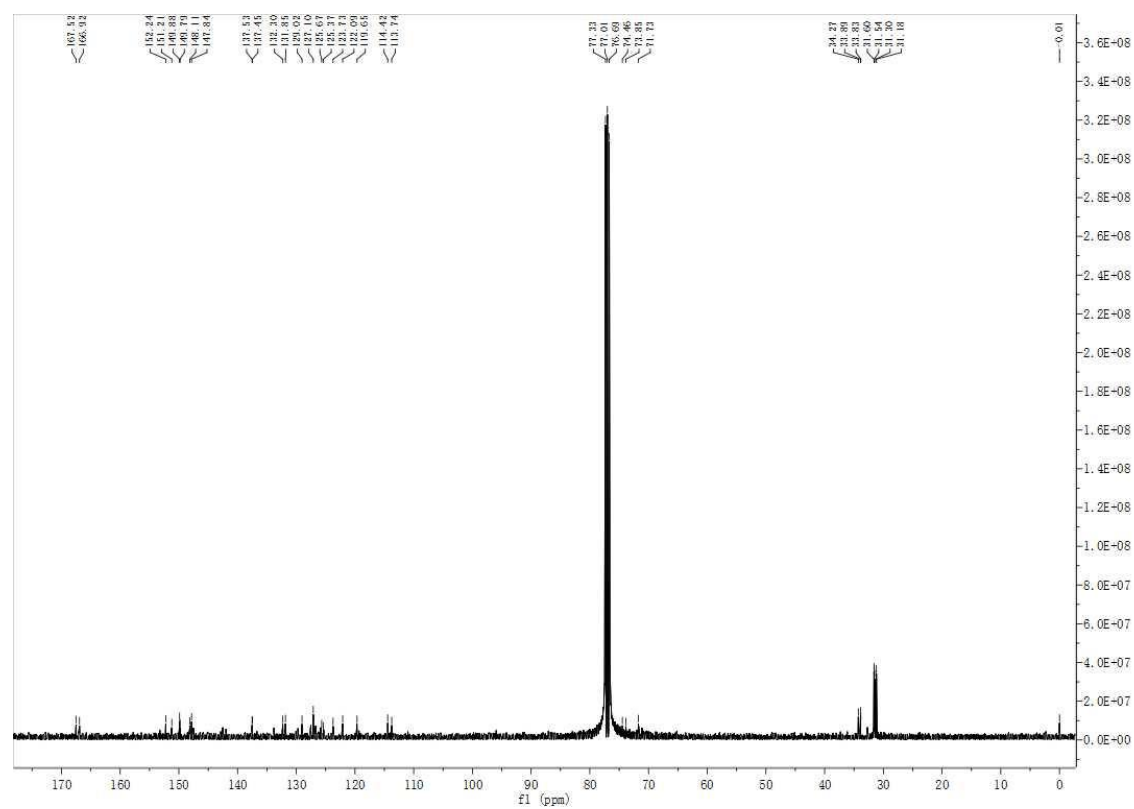
HRMS of **4m**



^1H NMR of **4n**



^{13}C NMR of **4n**



HRMS of **4n**

