

Synthesis and transformations of a few 9-(pent-4-yn-1-yl)anthracene-type systems

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Perupparampil A. Unnikrishnan*

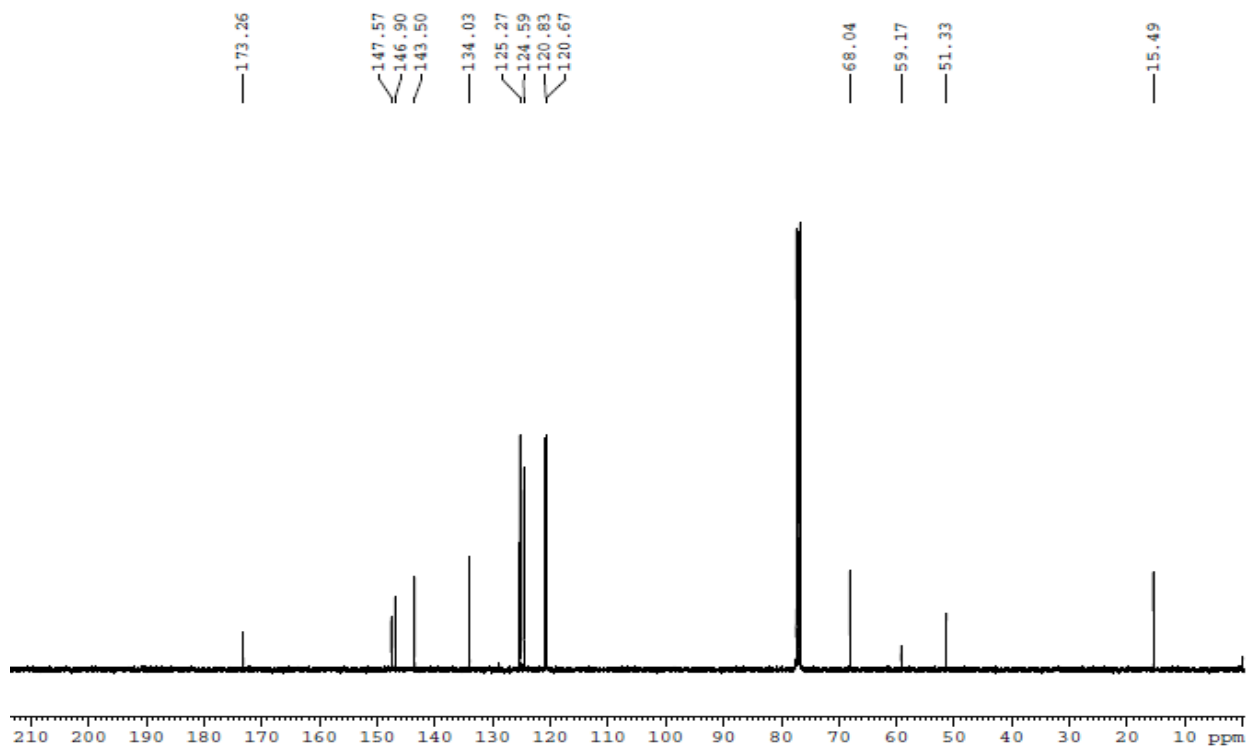
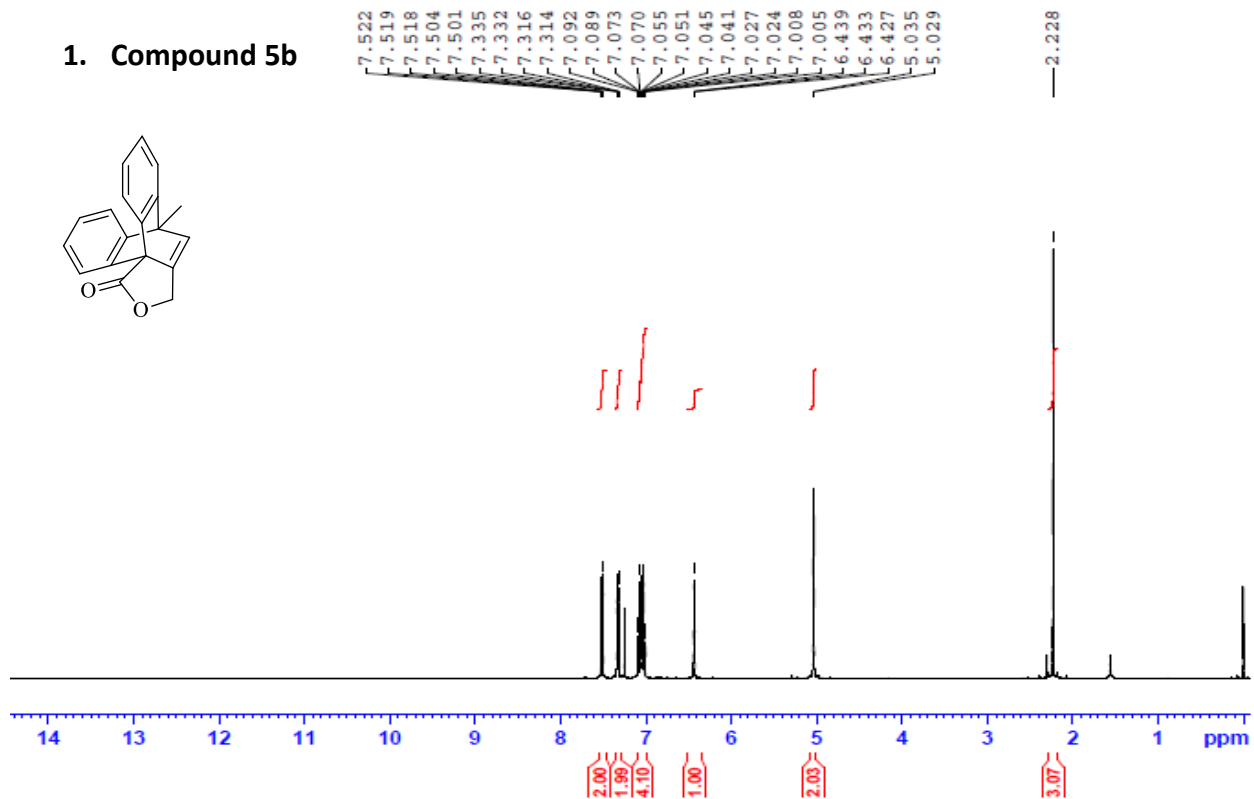
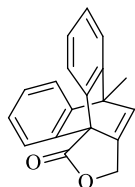
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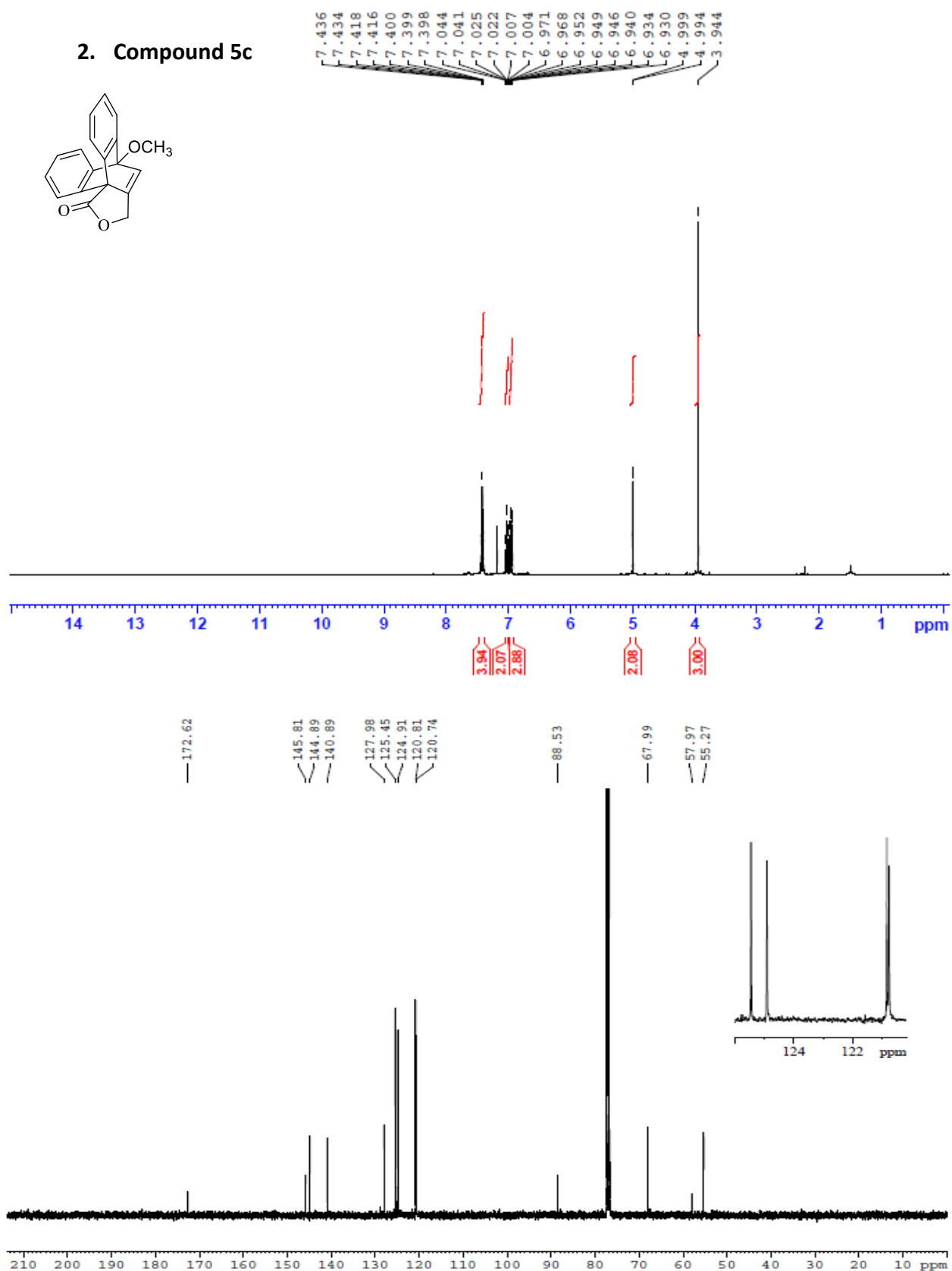
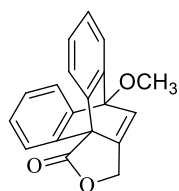
Content: ^1H and ^{13}C NMR spectra of novel compounds

Unless otherwise mentioned, all ^1H and ^{13}C NMR spectra were recorded on a 400 MHz Bruker Avance III FT-NMR spectrometer with tetramethylsilane (TMS) as internal standard. Chemical shifts (δ) are reported in parts per million (ppm) downfield of TMS.

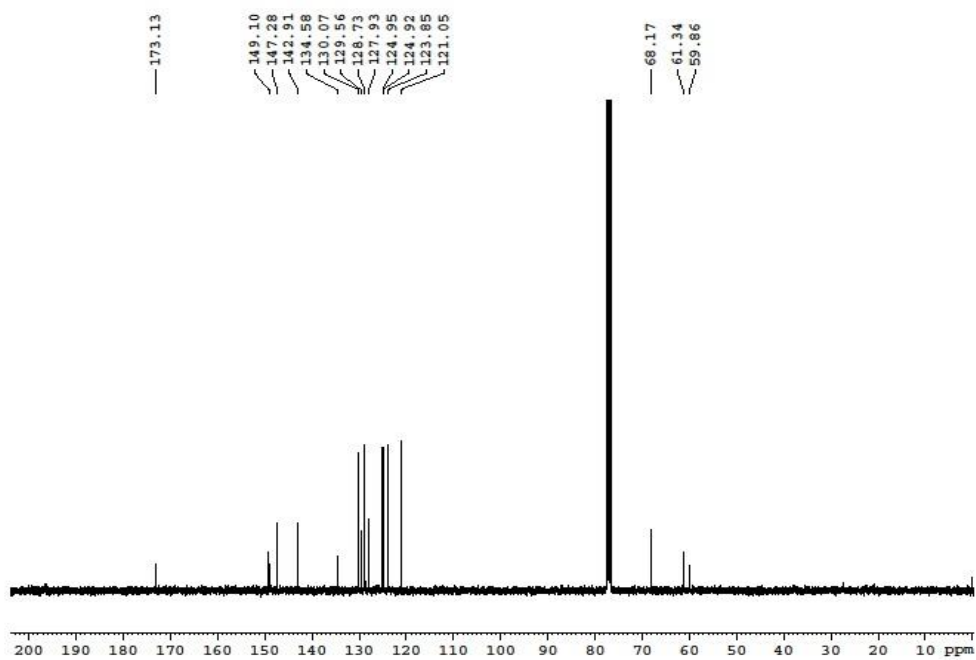
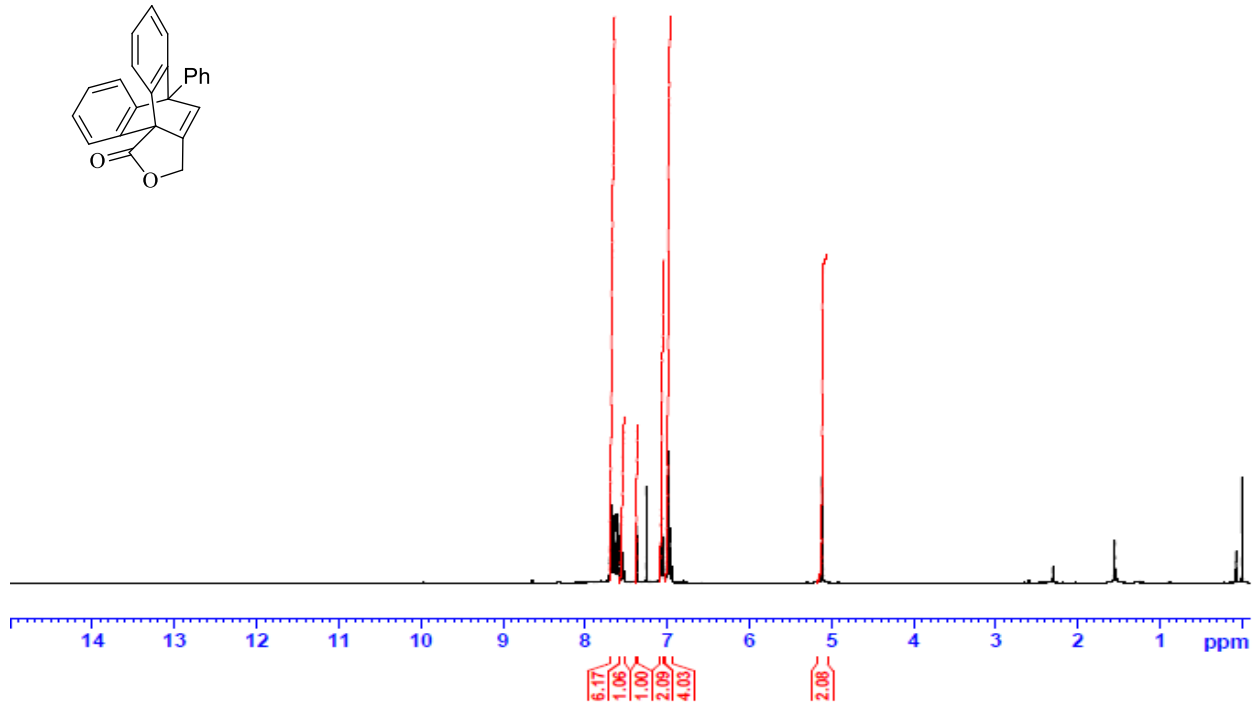
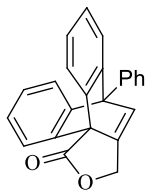
1. Compound 5b



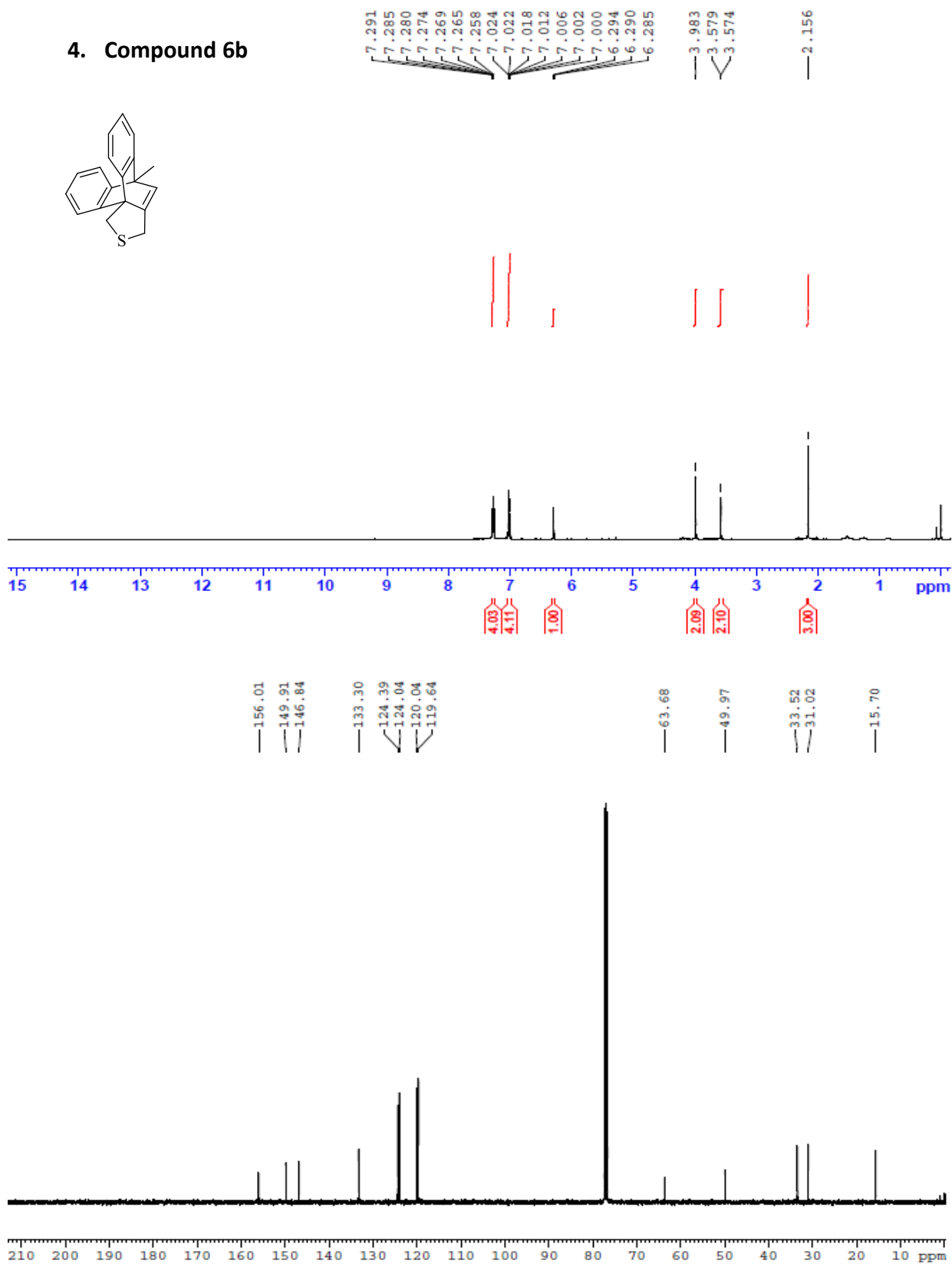
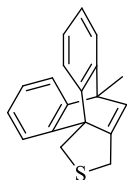
2. Compound 5c



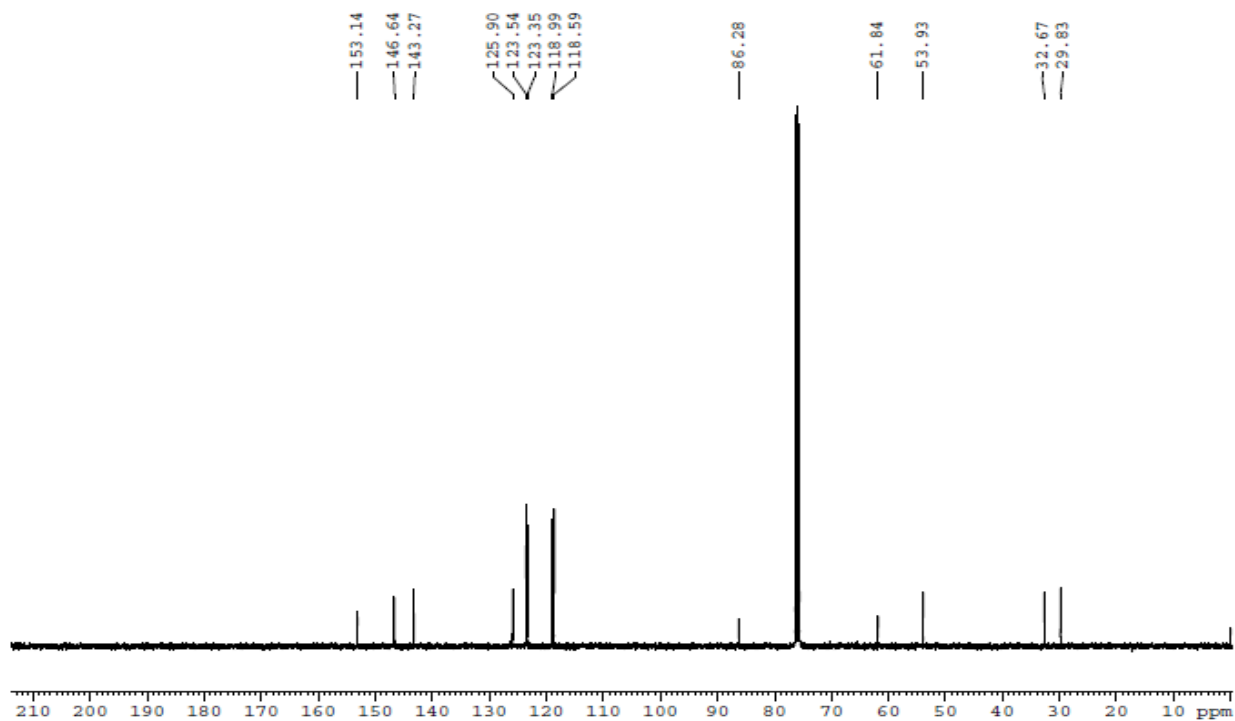
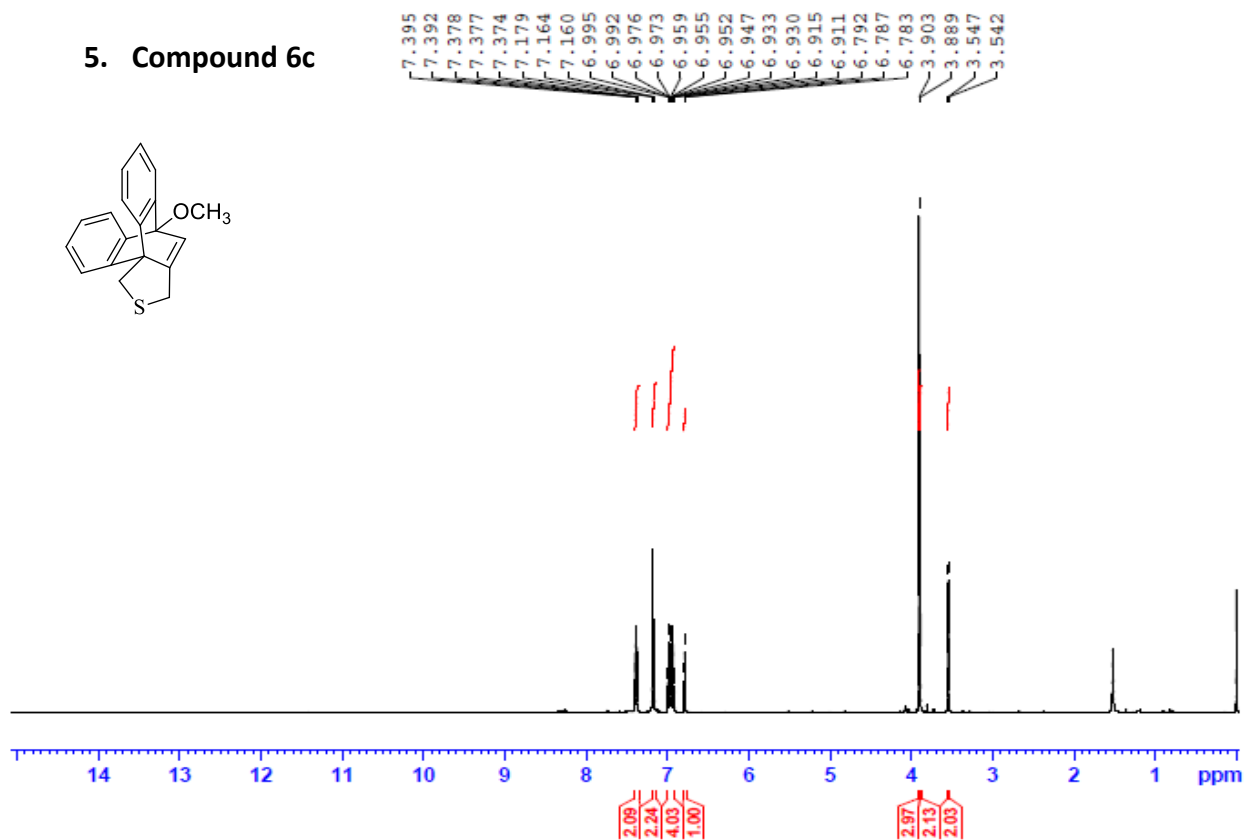
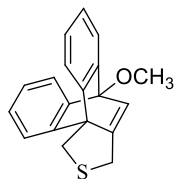
3. Compound 5d



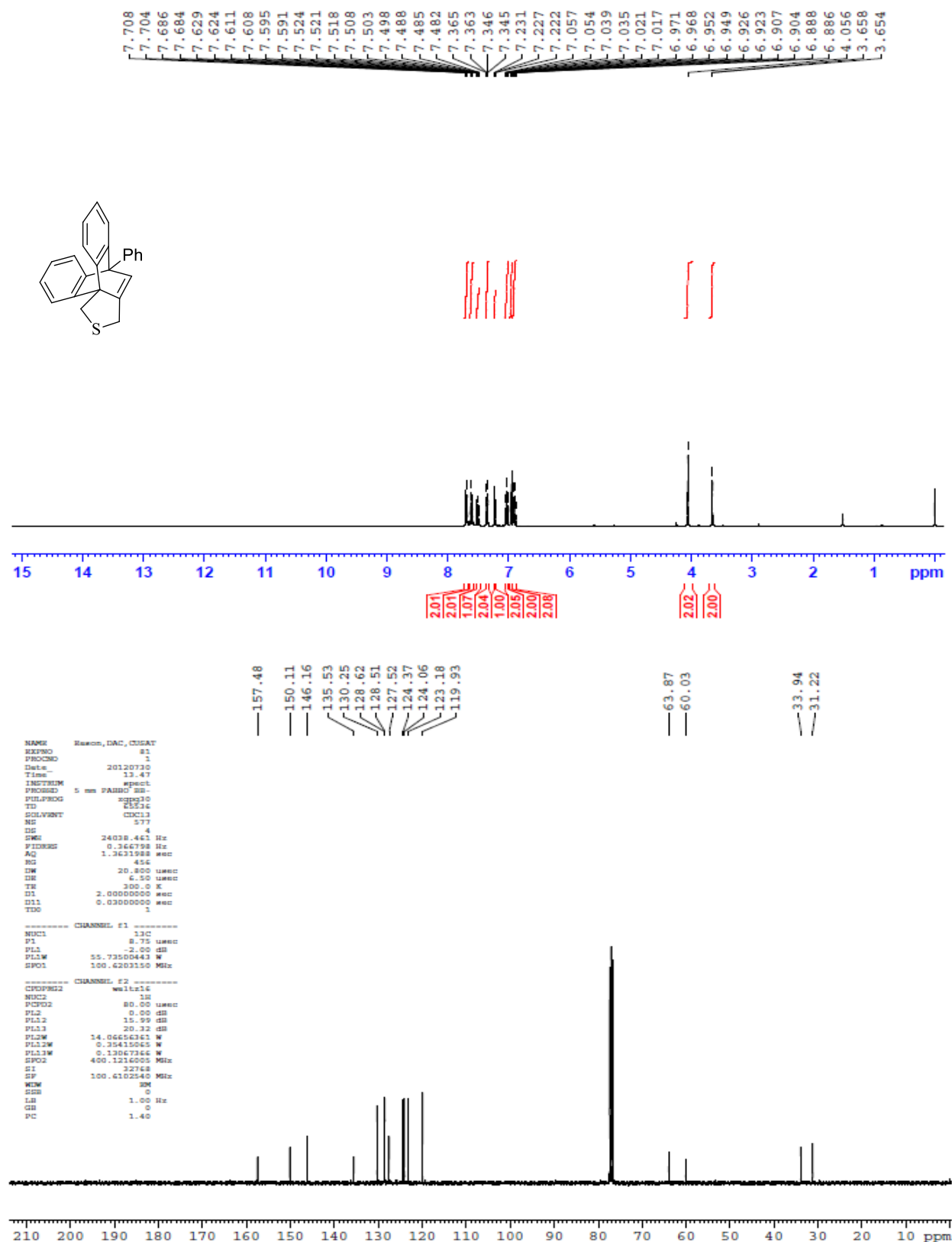
4. Compound 6b



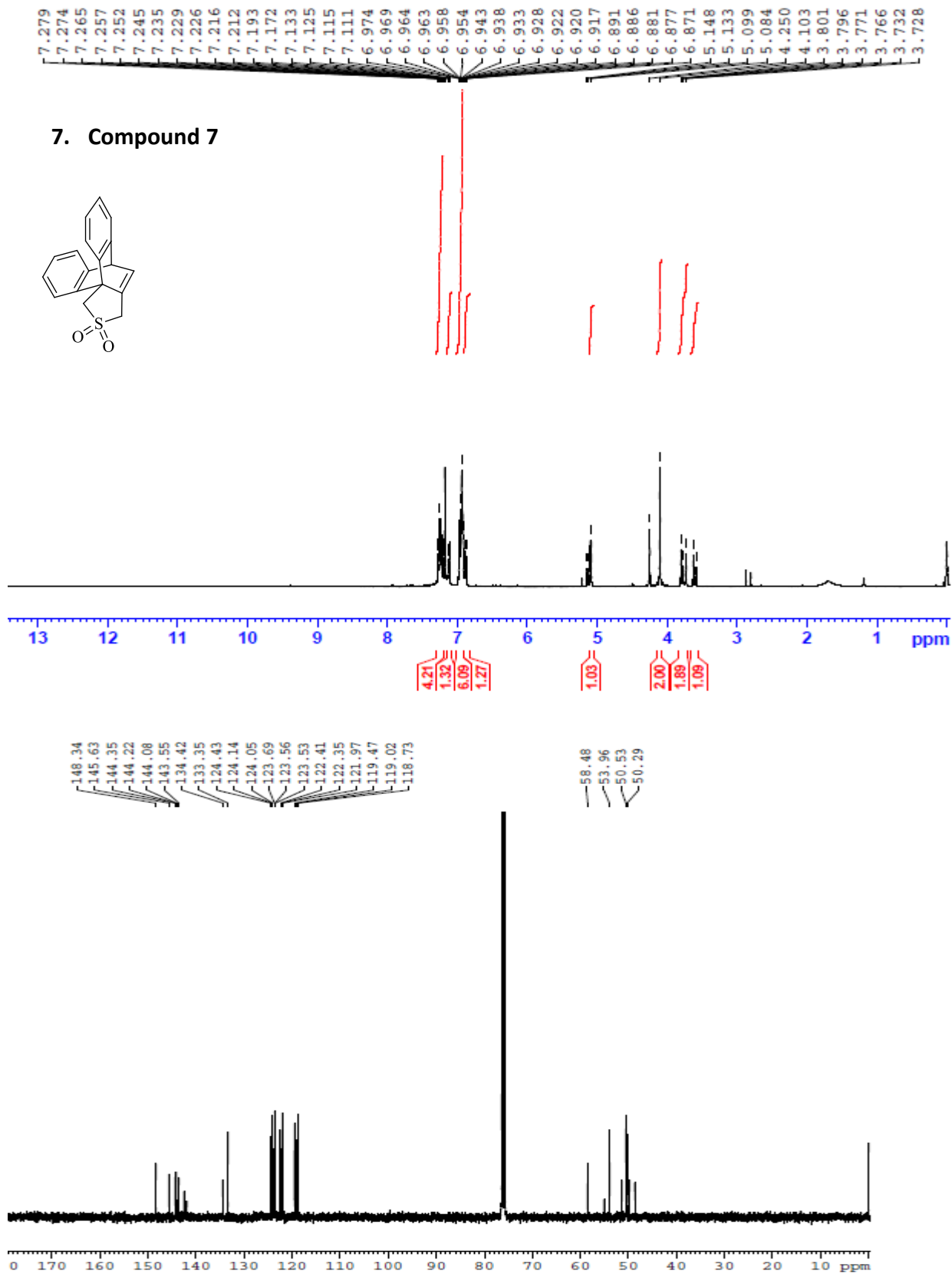
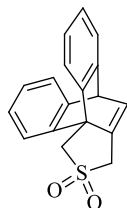
5. Compound 6c



6. Compound 6d

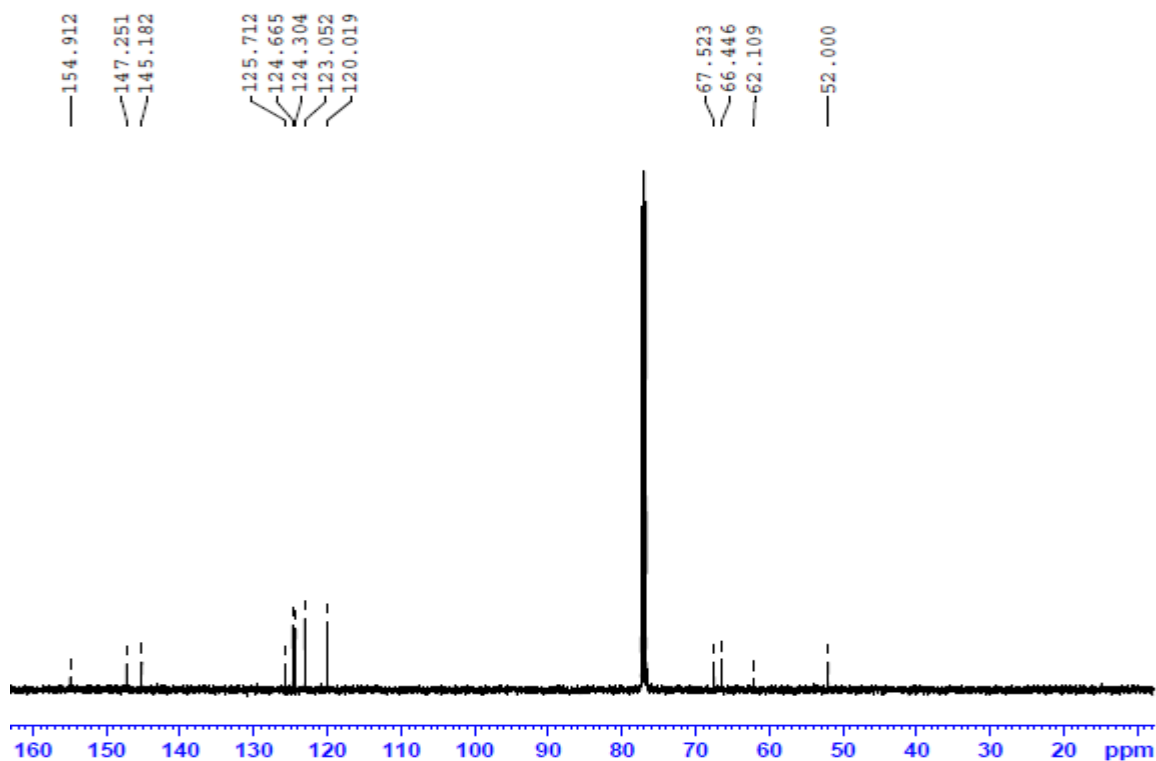
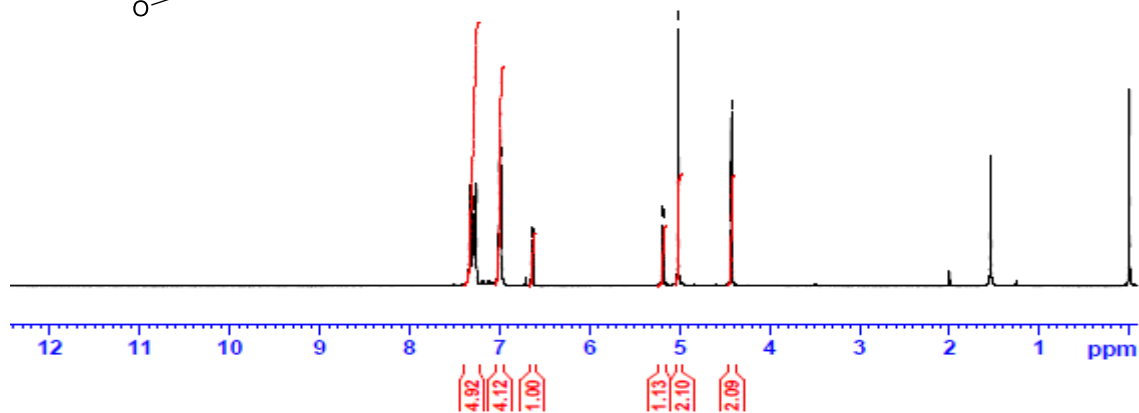
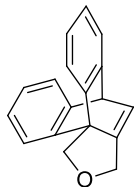


7. Compound 7

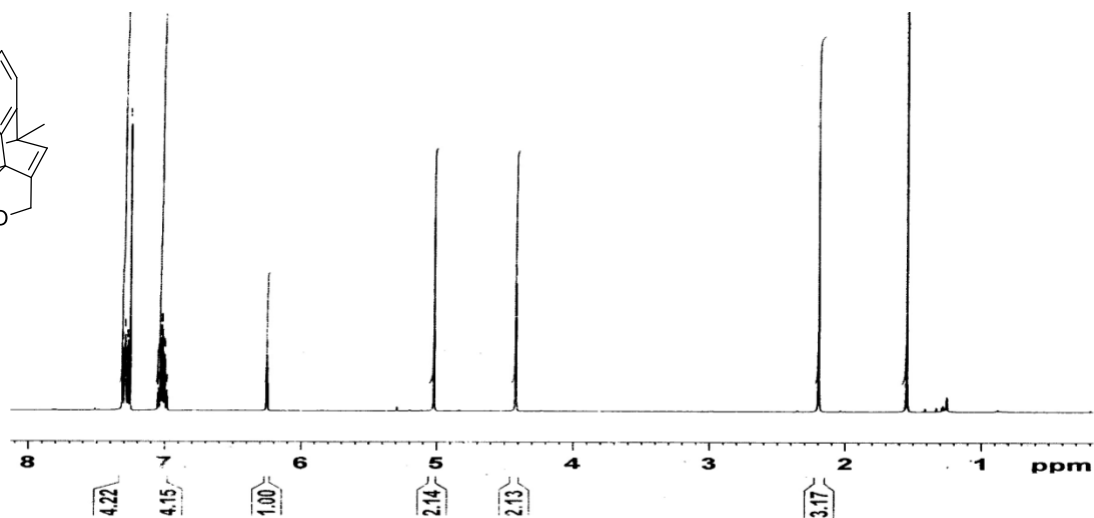
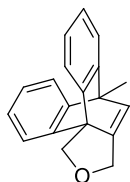


7.333
7.328
7.321
7.312
7.292
7.282
7.275
7.271
7.004
7.002
6.999
6.993
6.987
6.983
6.640
6.634
6.630
6.625
5.189
5.174
5.013
4.422
4.417

8. Compound 8a



9. Compound 8b

¹H NMR on a 500 M Hz instrument)

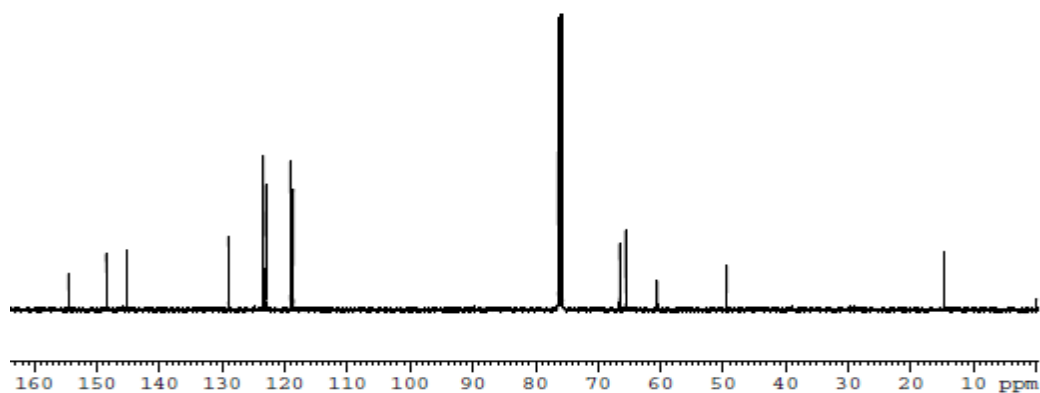
154.53
148.51
145.19

128.97
123.40
123.01
119.09
118.62

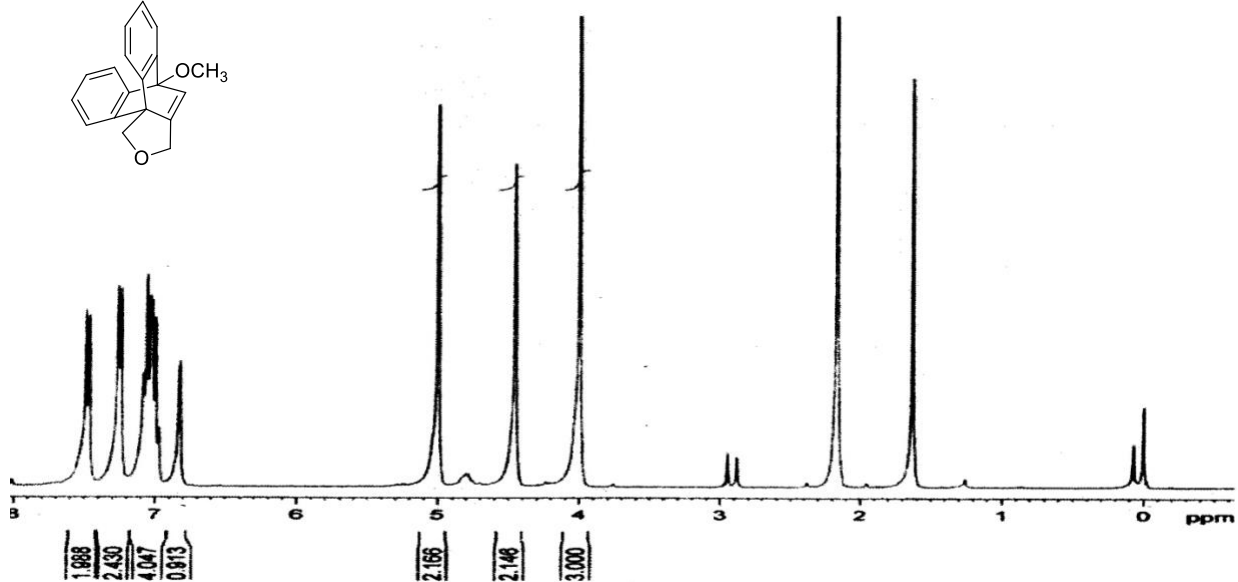
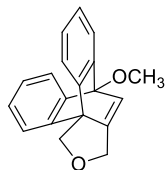
66.53
65.58
60.51

49.43

14.71



10. Compound 8c

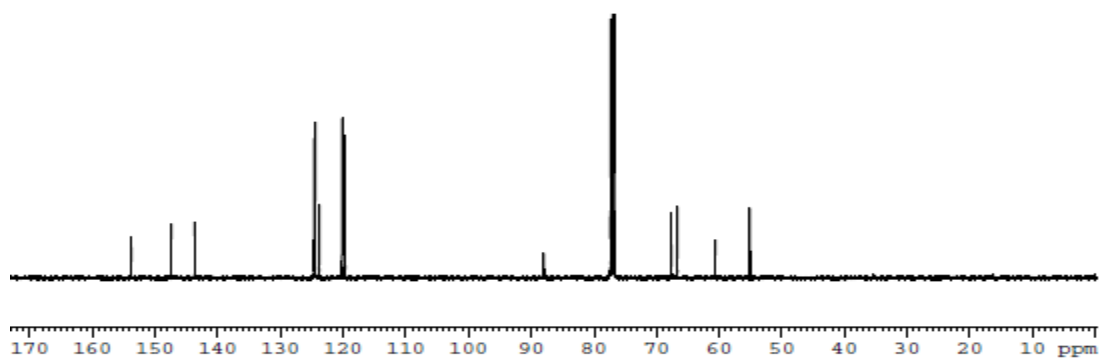
 $(^1\text{H NMR on a 500 M Hz instrument})$ 

— 153.78
— 147.35
— 143.66

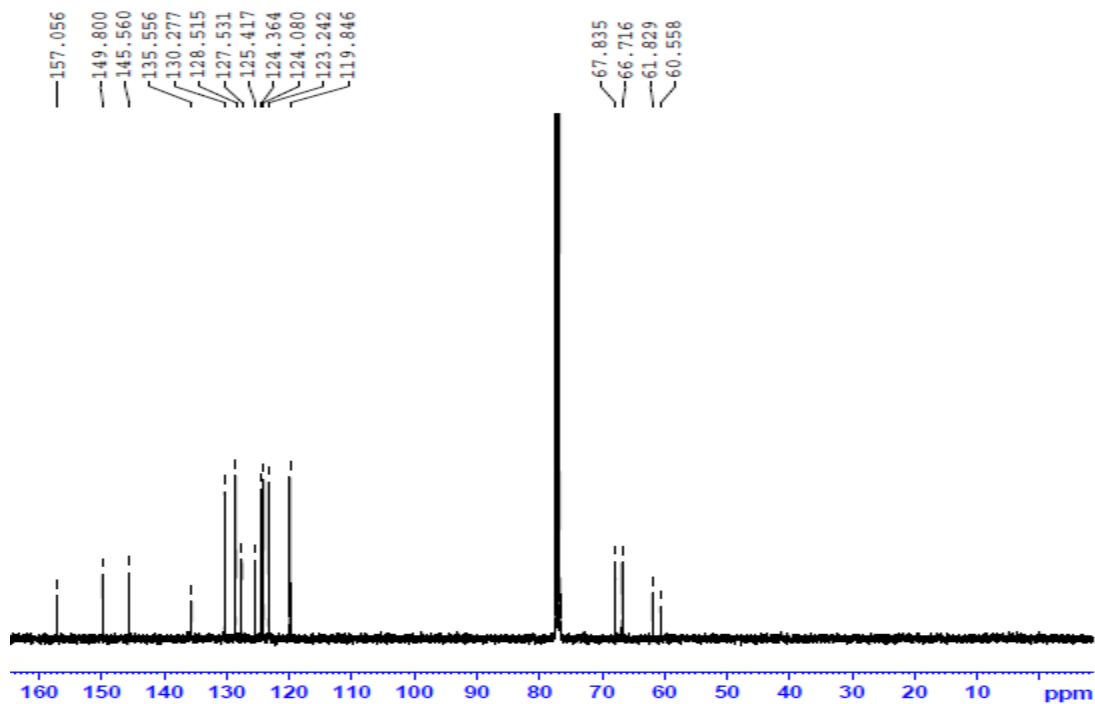
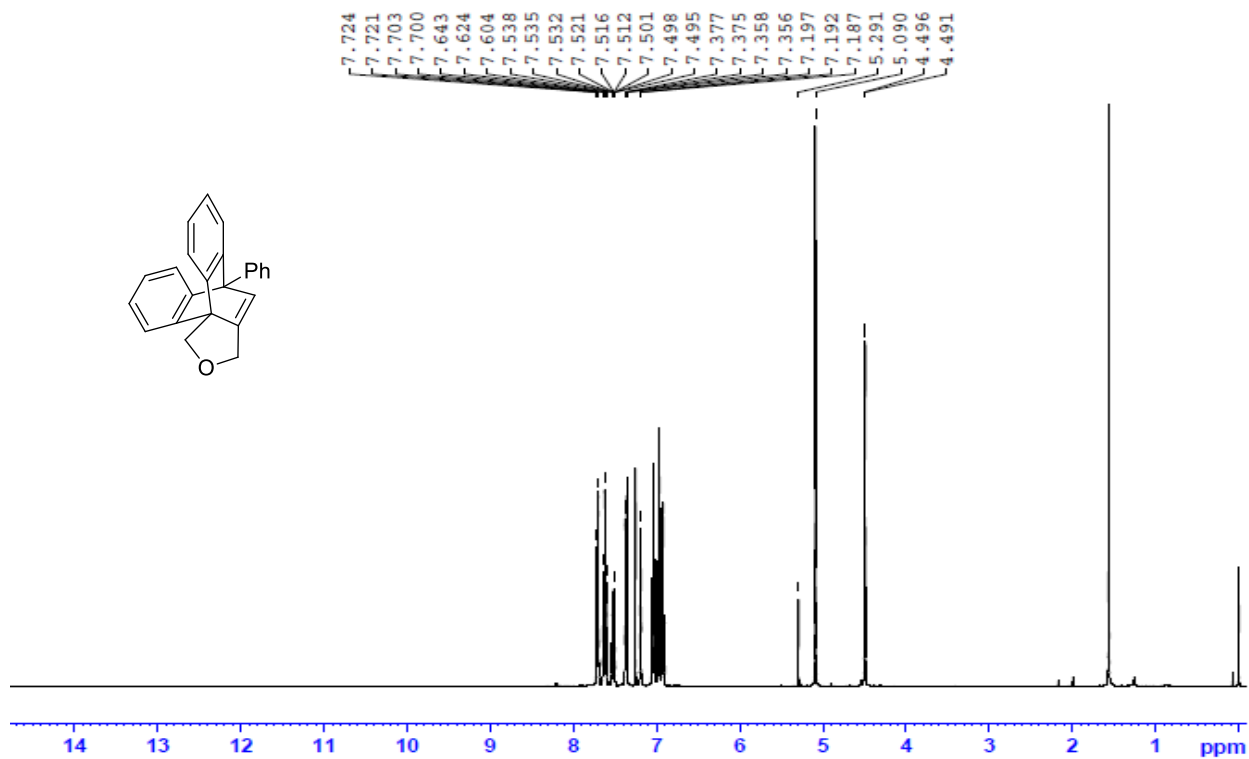
124.63
124.38
123.75
120.14
119.66

— 87.95

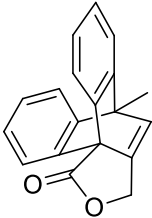
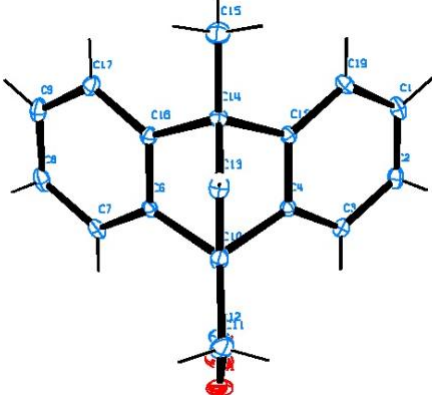
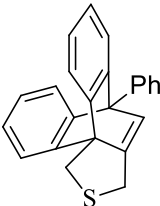
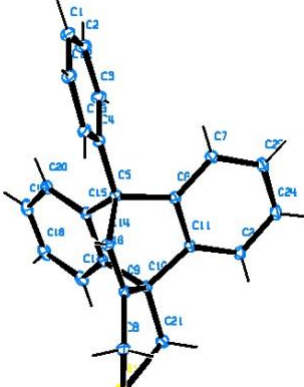
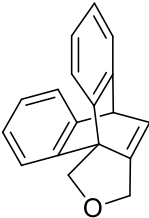
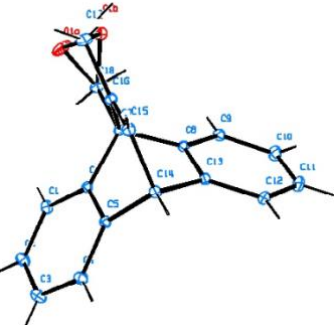
67.66
66.61
60.60
55.08



11. Compound 8d



Single Crystal XRD obtained for a few tethered barrelenes

<p>1. Compound 5b</p> 	
<p>2. Compound 6c</p> 	
<p>3. Compound 8a</p> 	
<p>4. Compound 8d</p> 