

## Supporting Informations for

### Design and synthesis of conformationally constrained bicyclo[2.2.2] octane-based unusual $\alpha$ -amino acid derivatives via the Diels–Alder reaction

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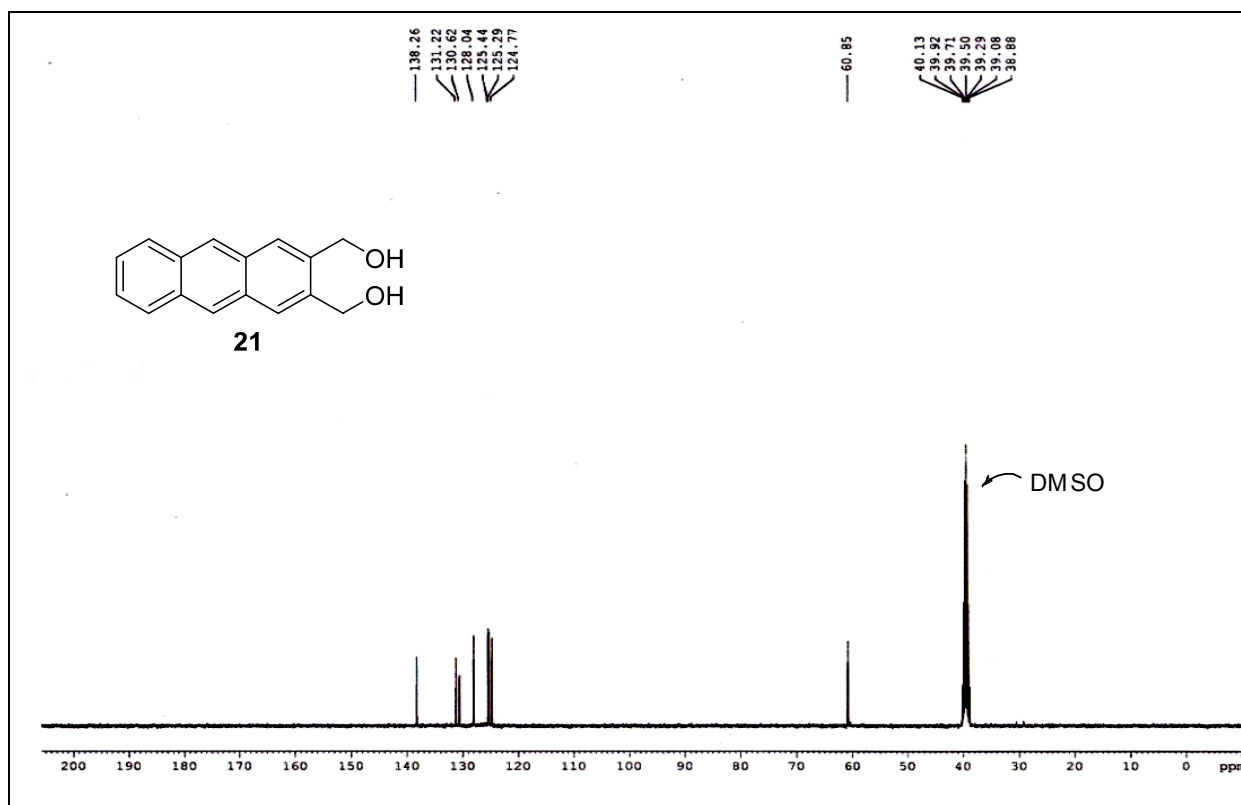
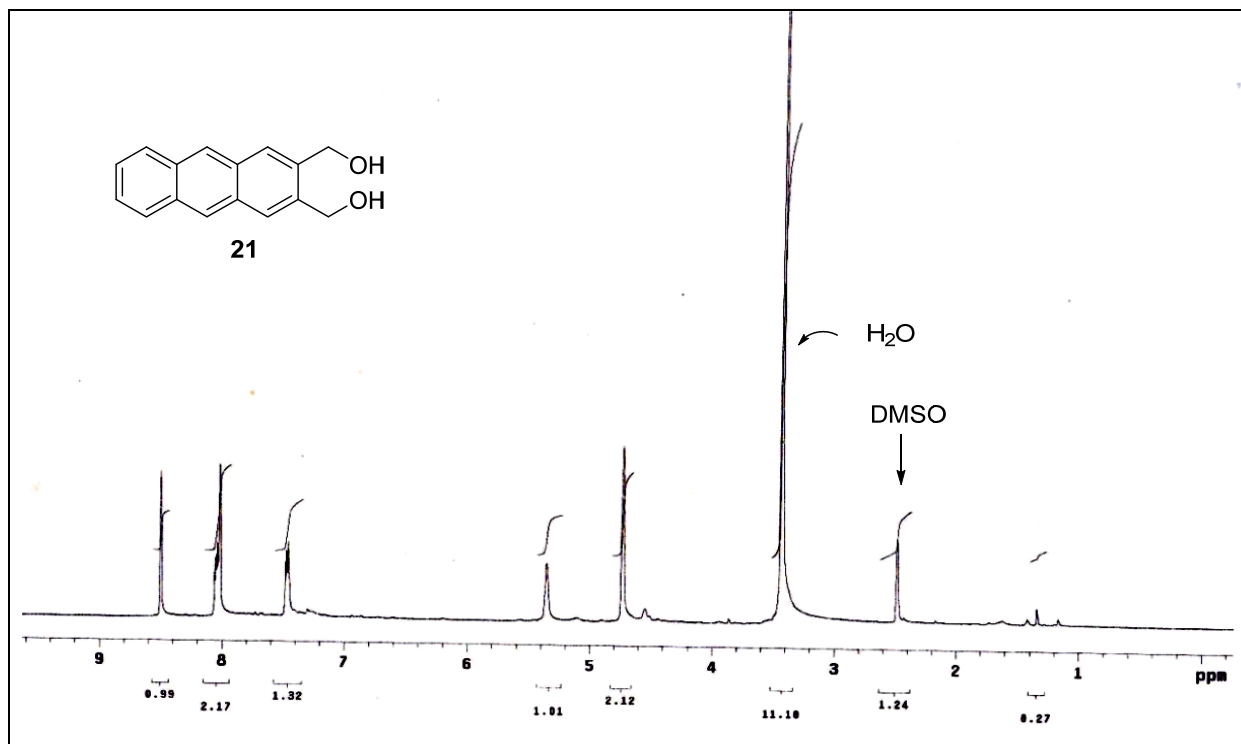
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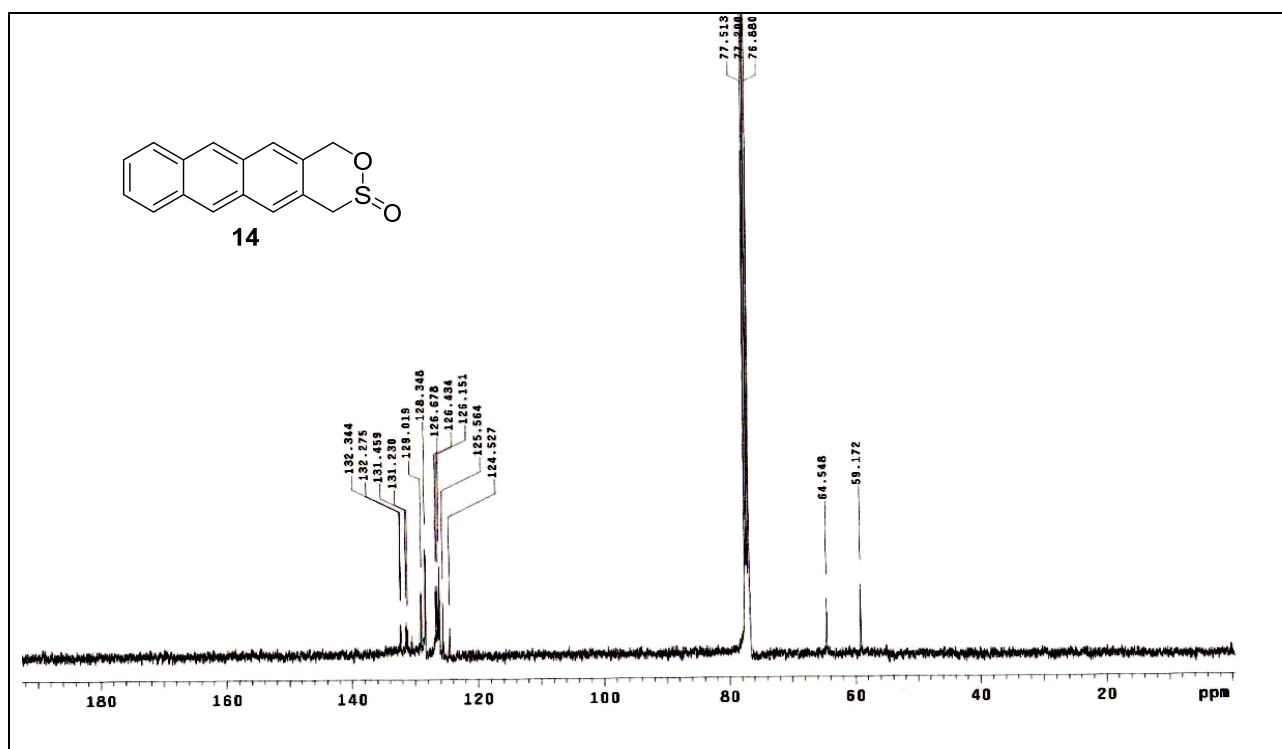
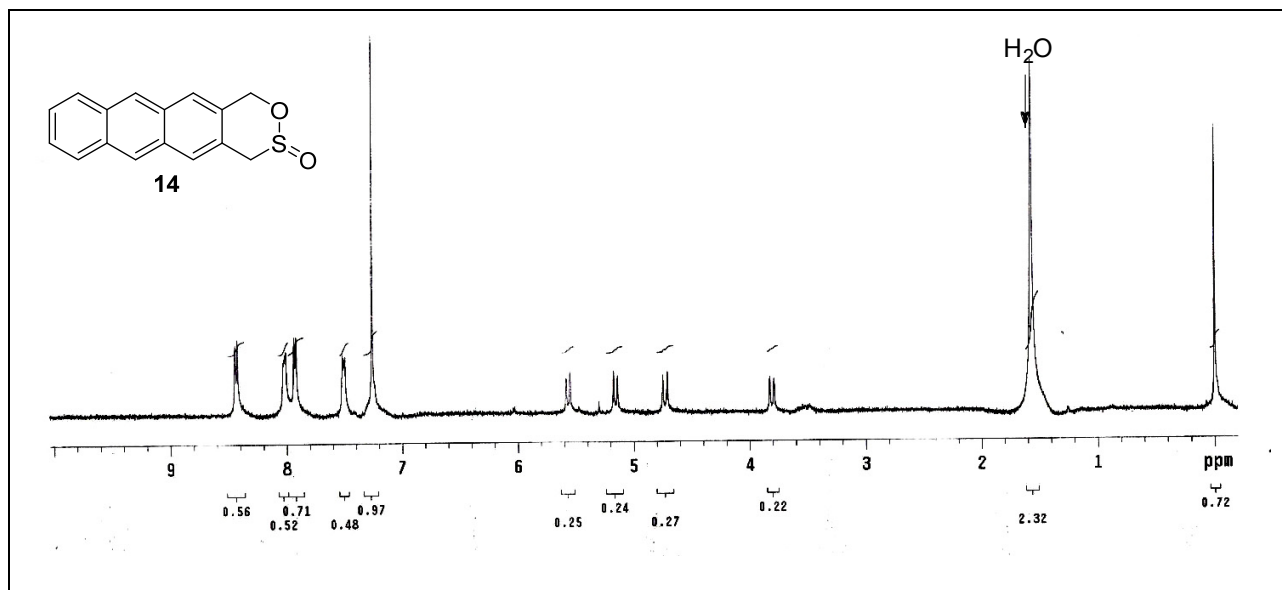
*E-mail: [srk@chem.iitb.ac.in](mailto:srk@chem.iitb.ac.in)*

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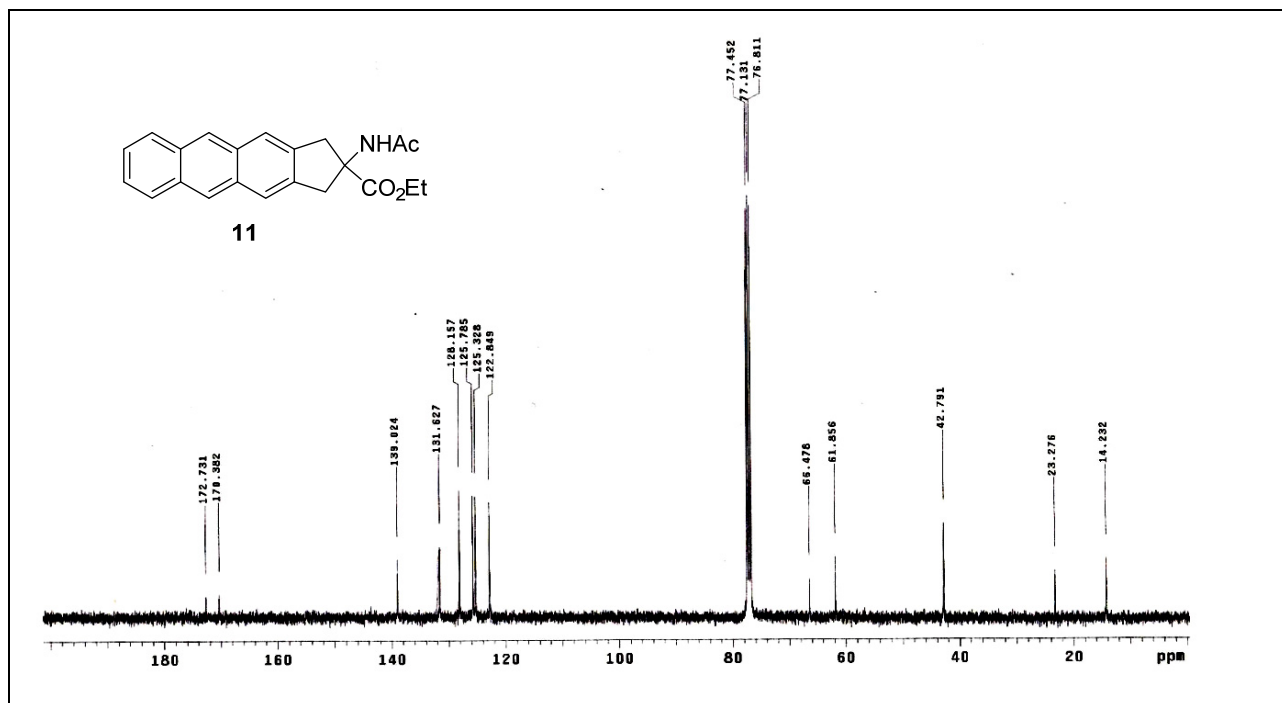
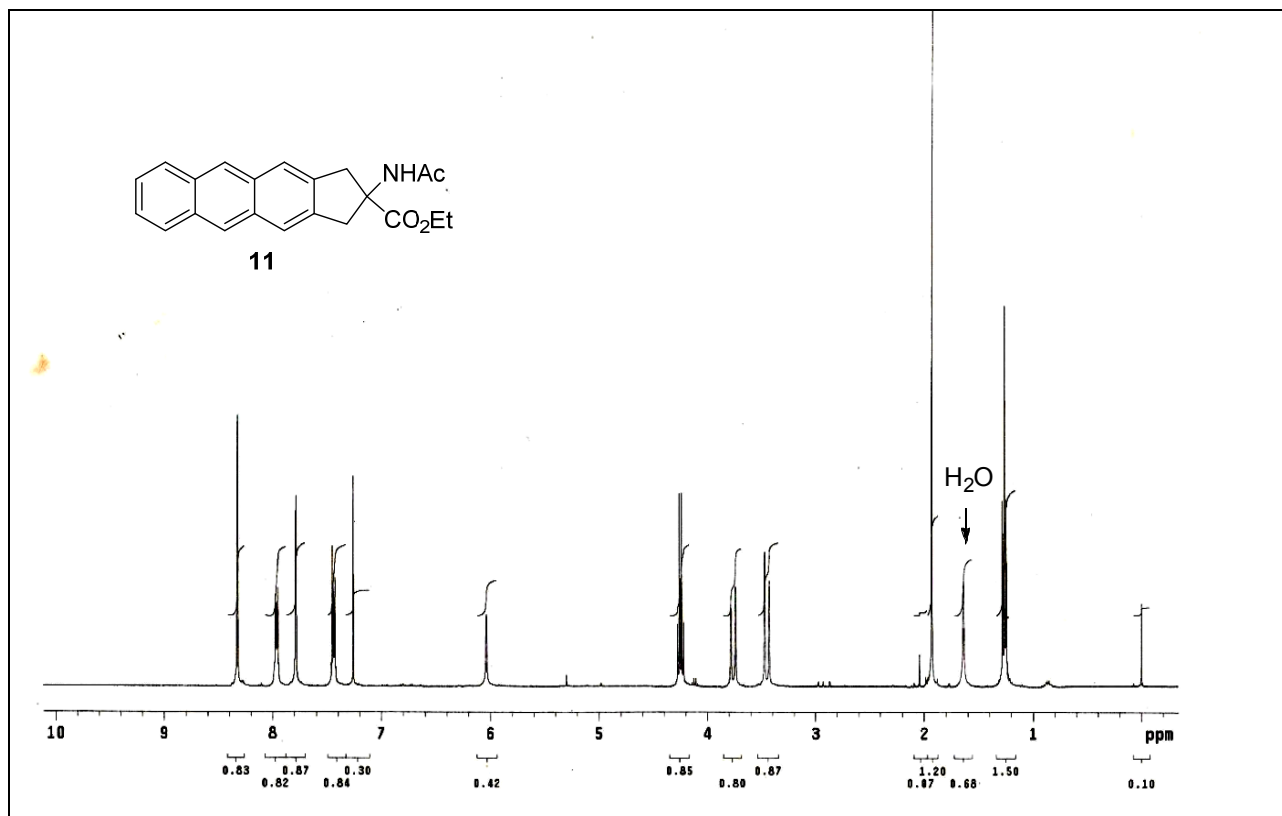
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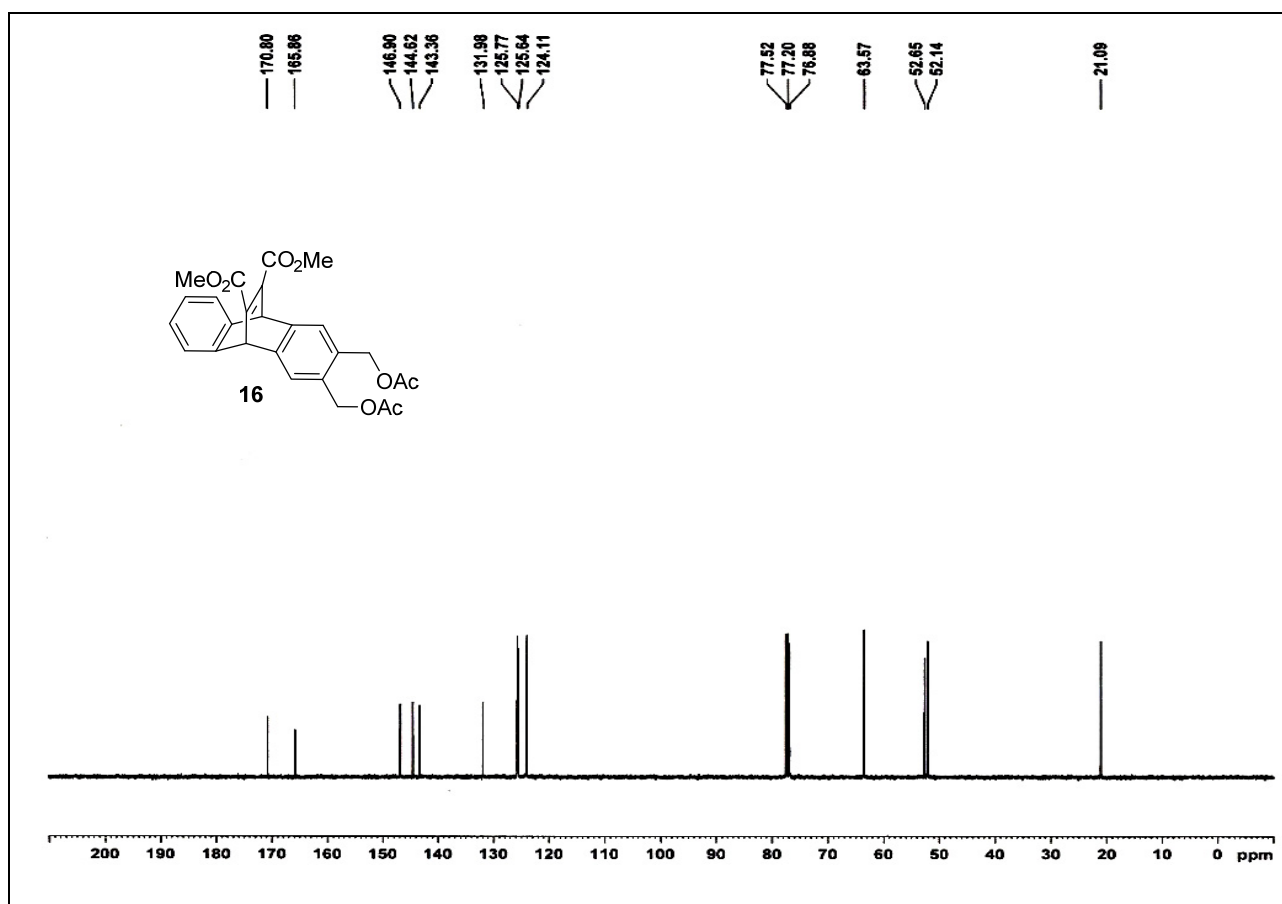
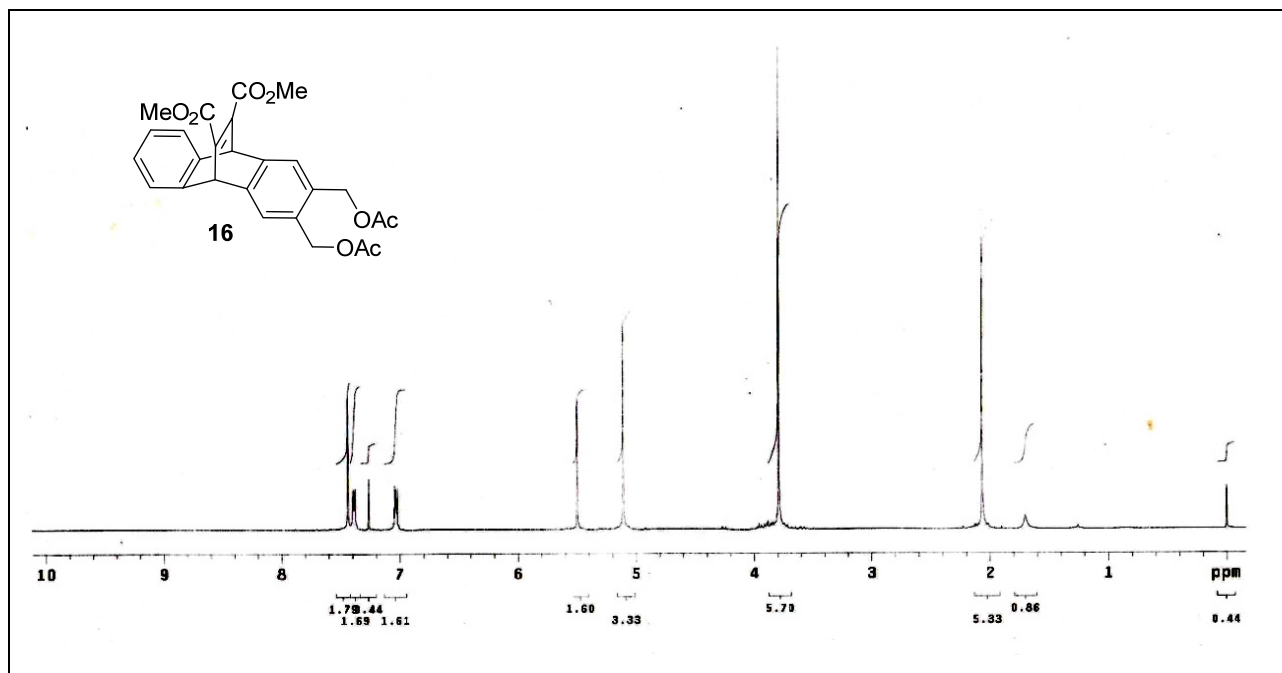
$^1\text{H}$  NMR (400 MHz, DMSO) and  $^{13}\text{C}$  NMR (100.6 MHz, DMSO) spectrum of compound **21**



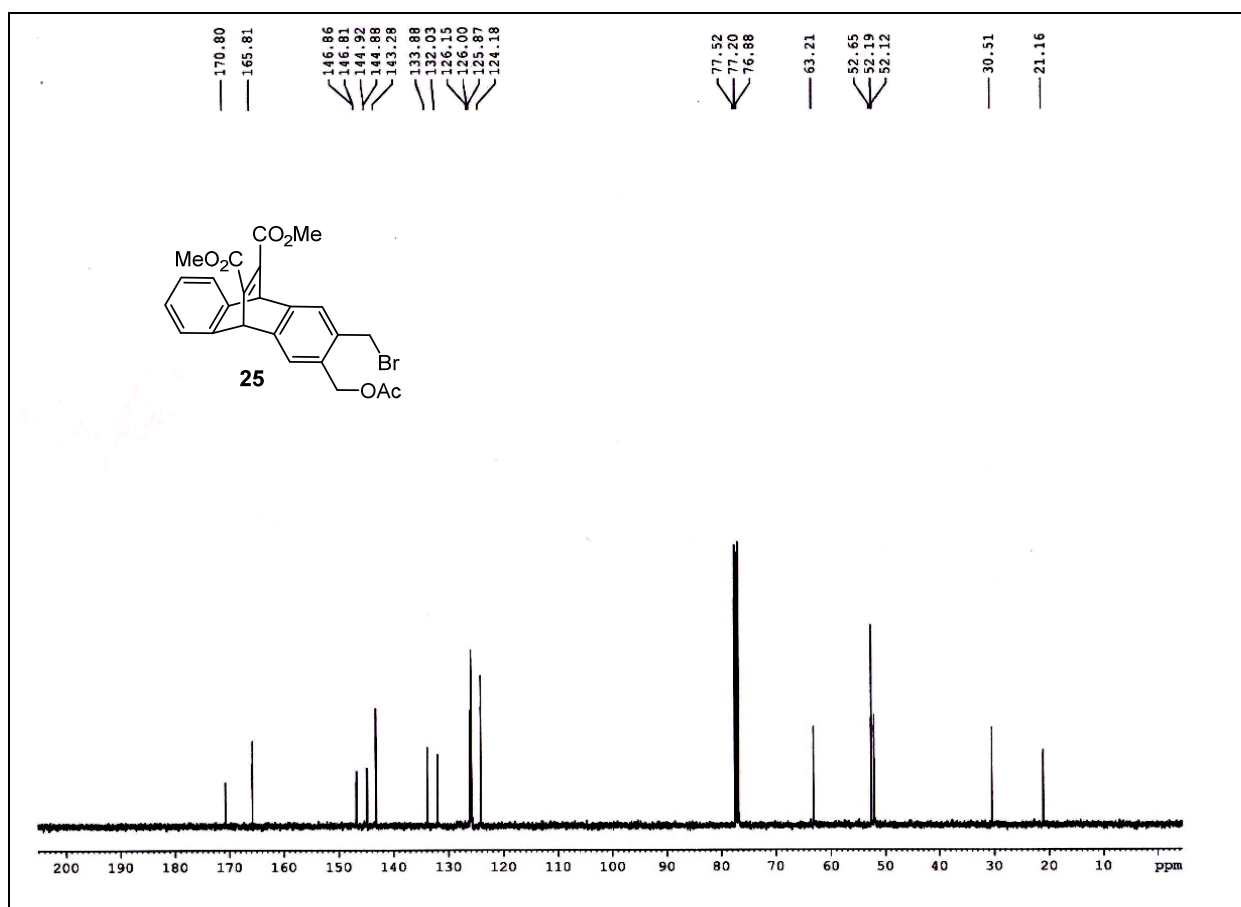
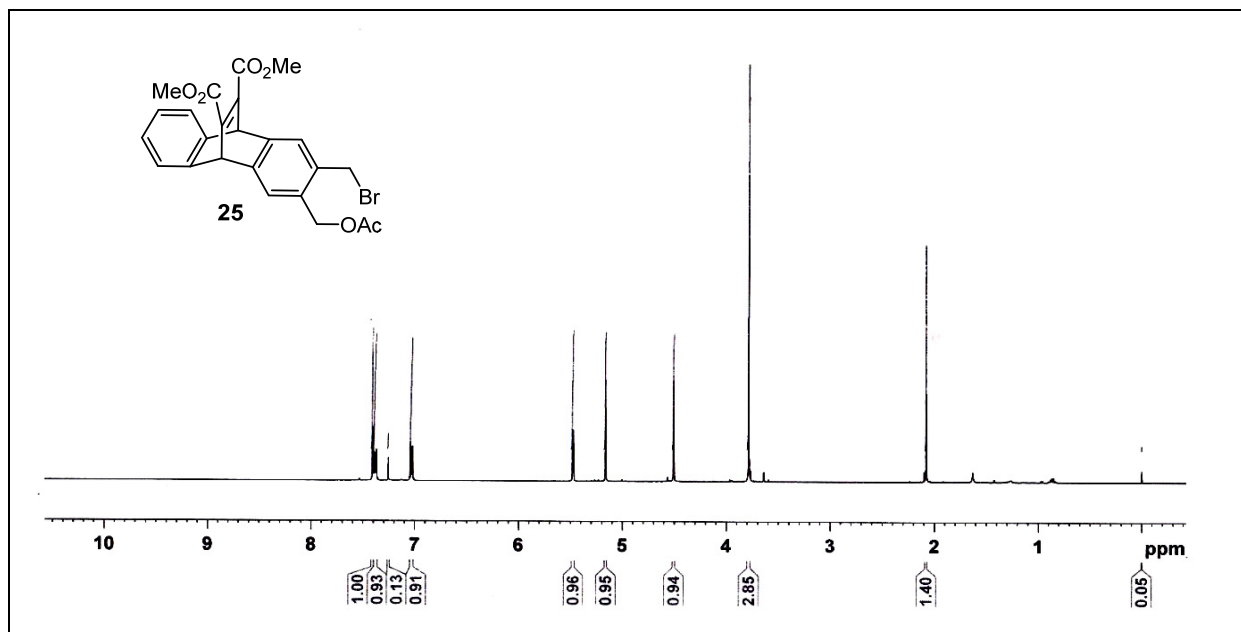
$^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ ) and  $^{13}\text{C}$  NMR (100.6 MHz,  $\text{CDCl}_3$ ) spectrum of compound **14**



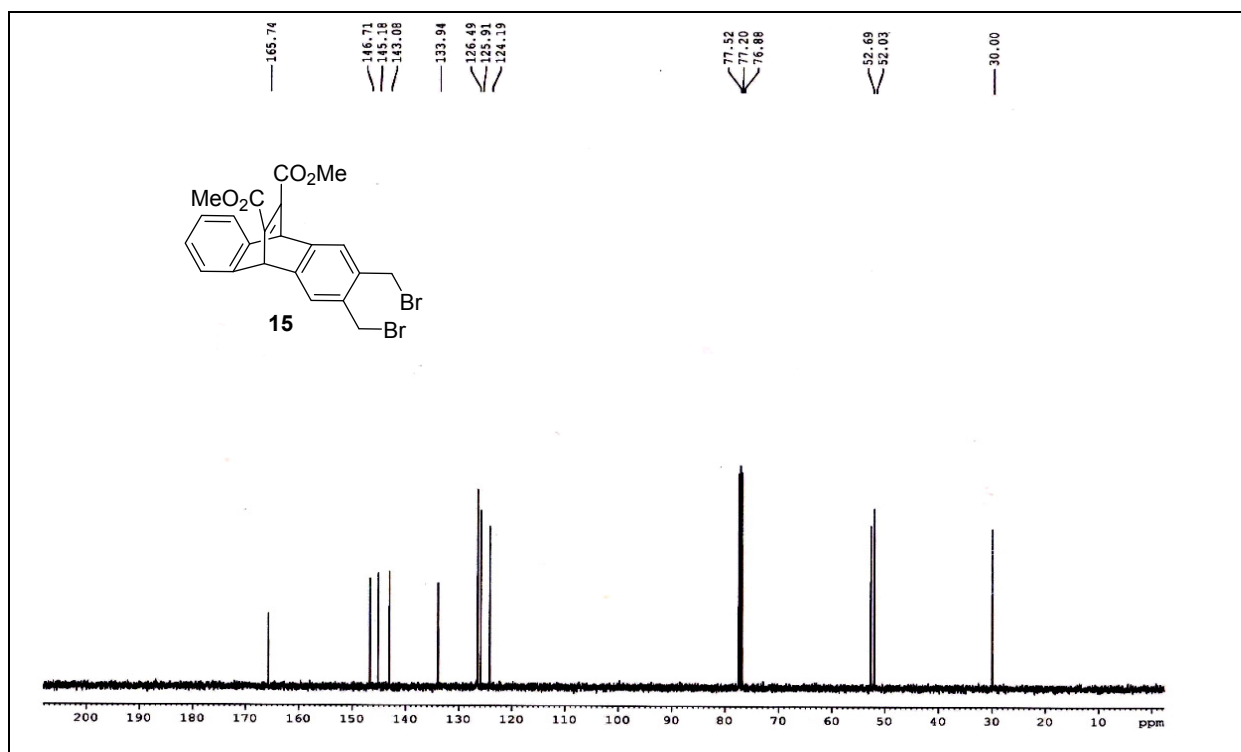
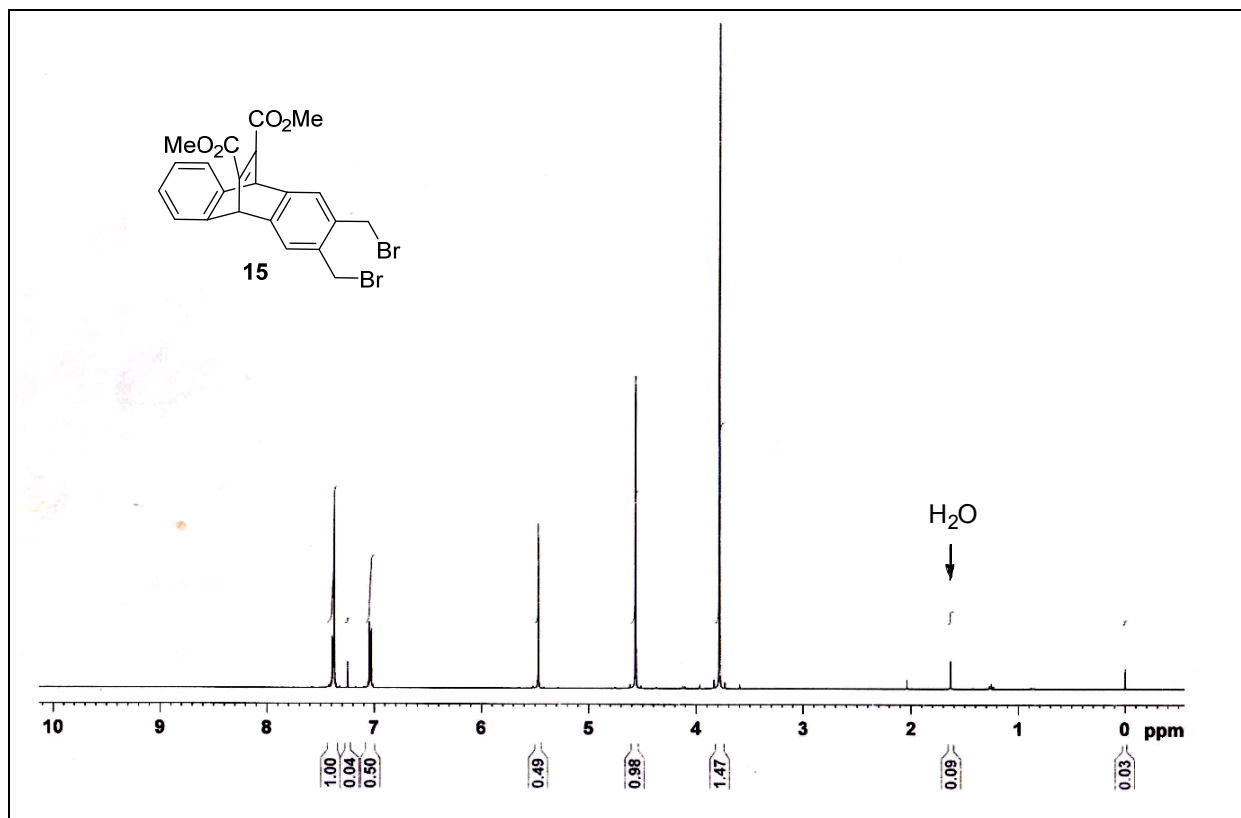
<sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>) and <sup>13</sup>C NMR (100.6 MHz, CDCl<sub>3</sub>) spectrum of compound **11**



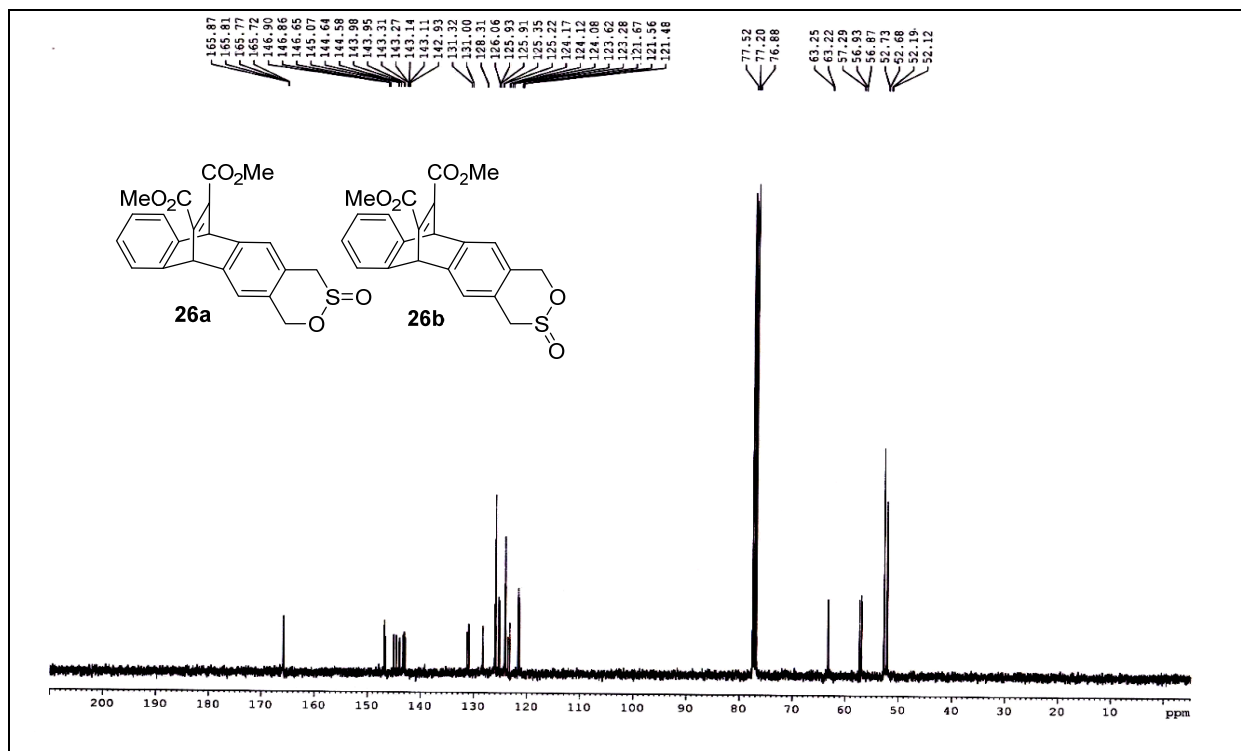
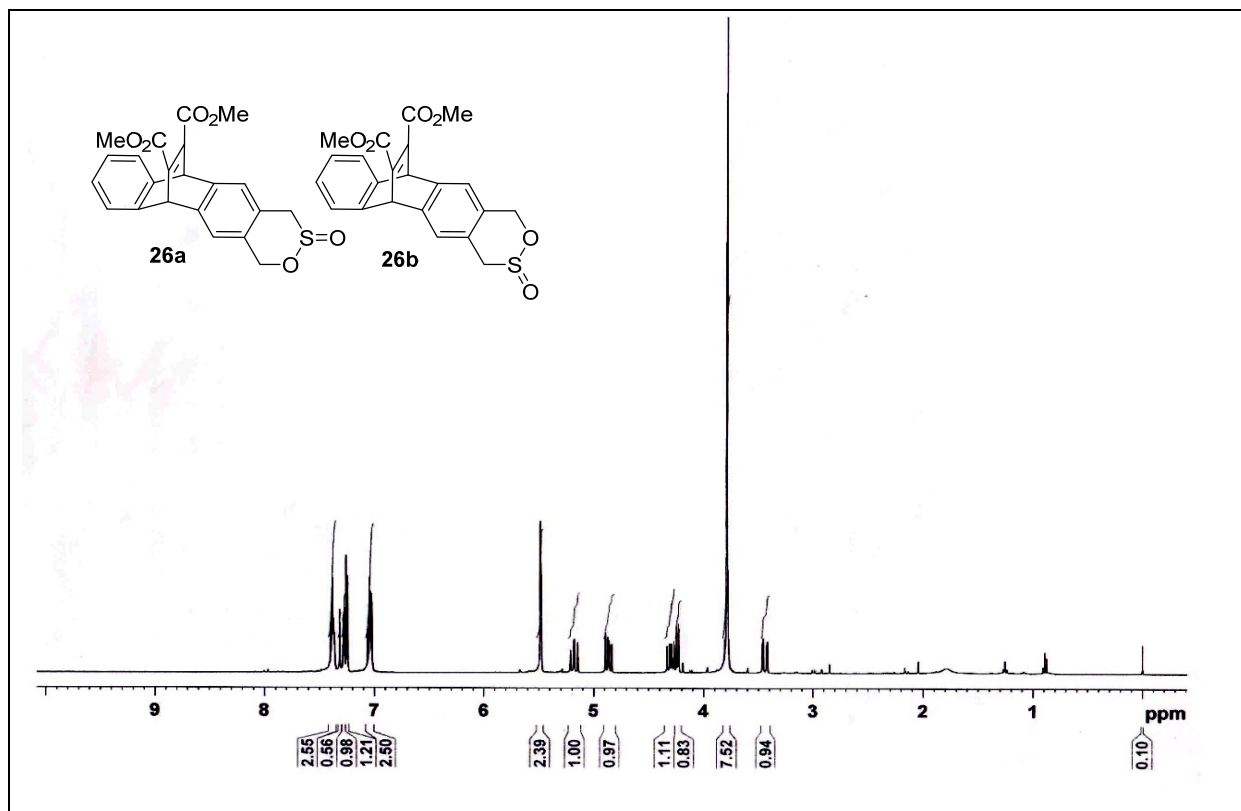
$^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ ) and  $^{13}\text{C}$  NMR (100.6 MHz,  $\text{CDCl}_3$ ) spectrum of compound **16**



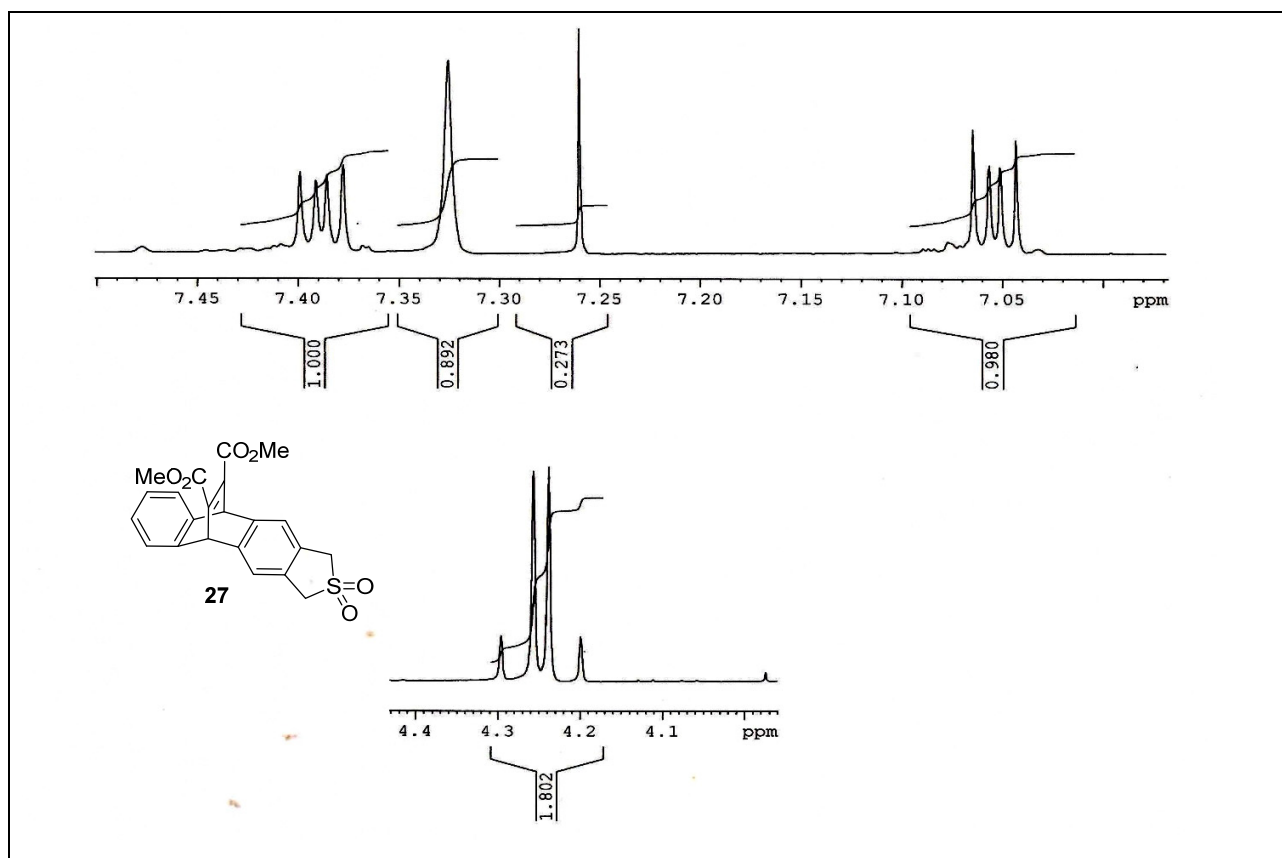
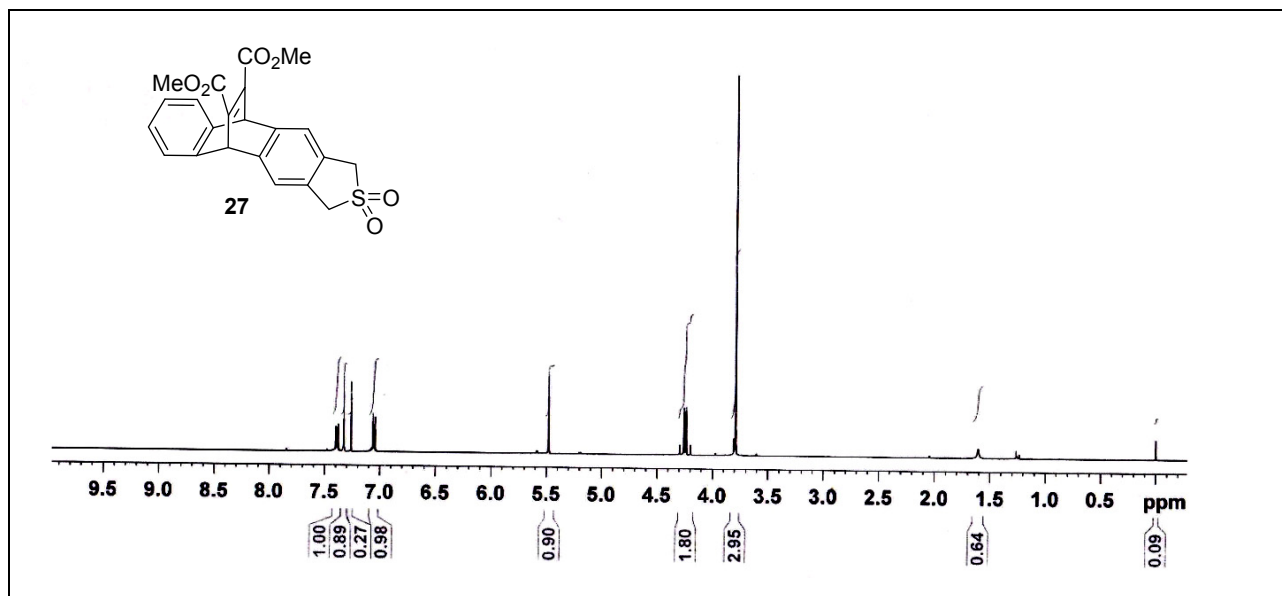
$^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ ) and  $^{13}\text{C}$  NMR (100.6 MHz,  $\text{CDCl}_3$ ) spectrum of compound **25**



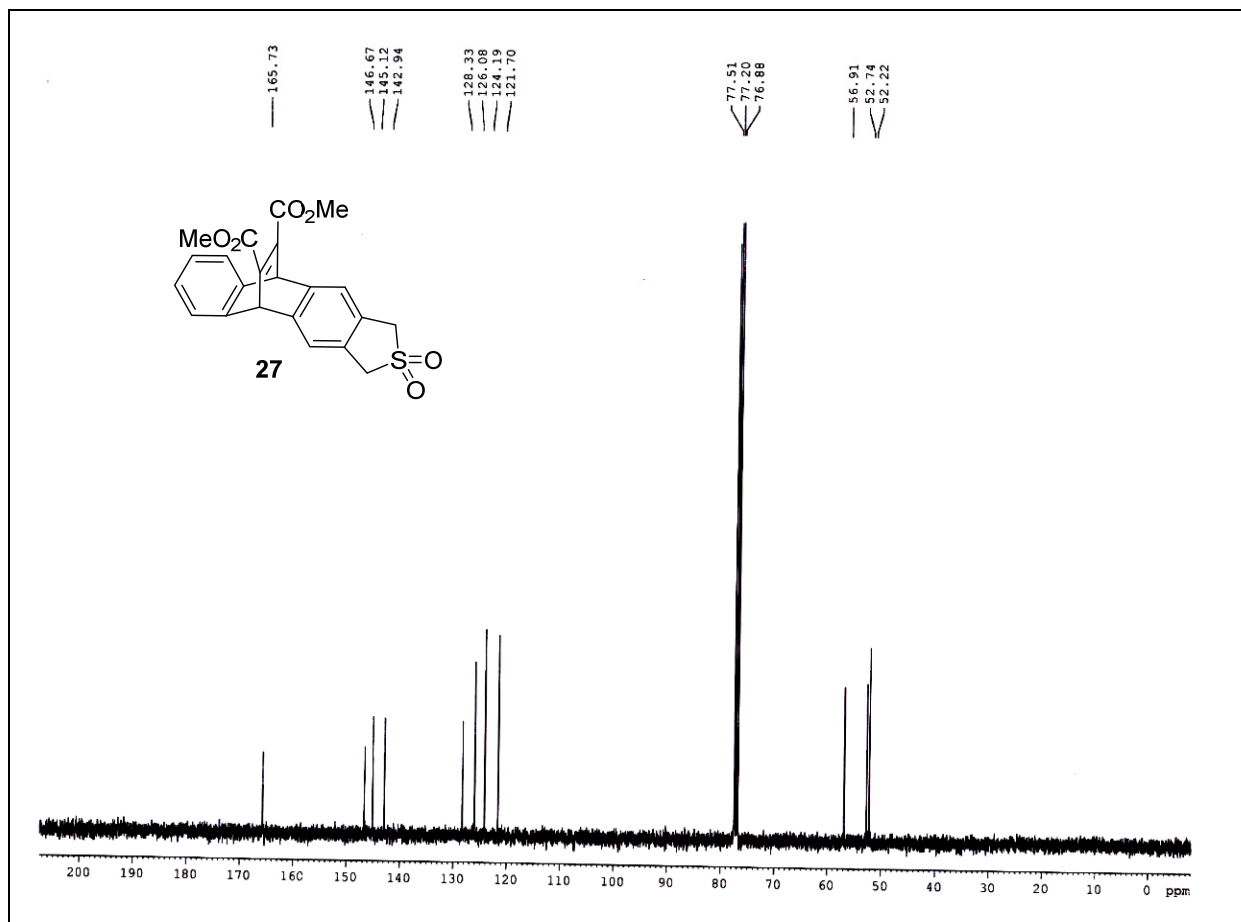
<sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>) and <sup>13</sup>C NMR (100.6 MHz, CDCl<sub>3</sub>) spectrum of compound **15**



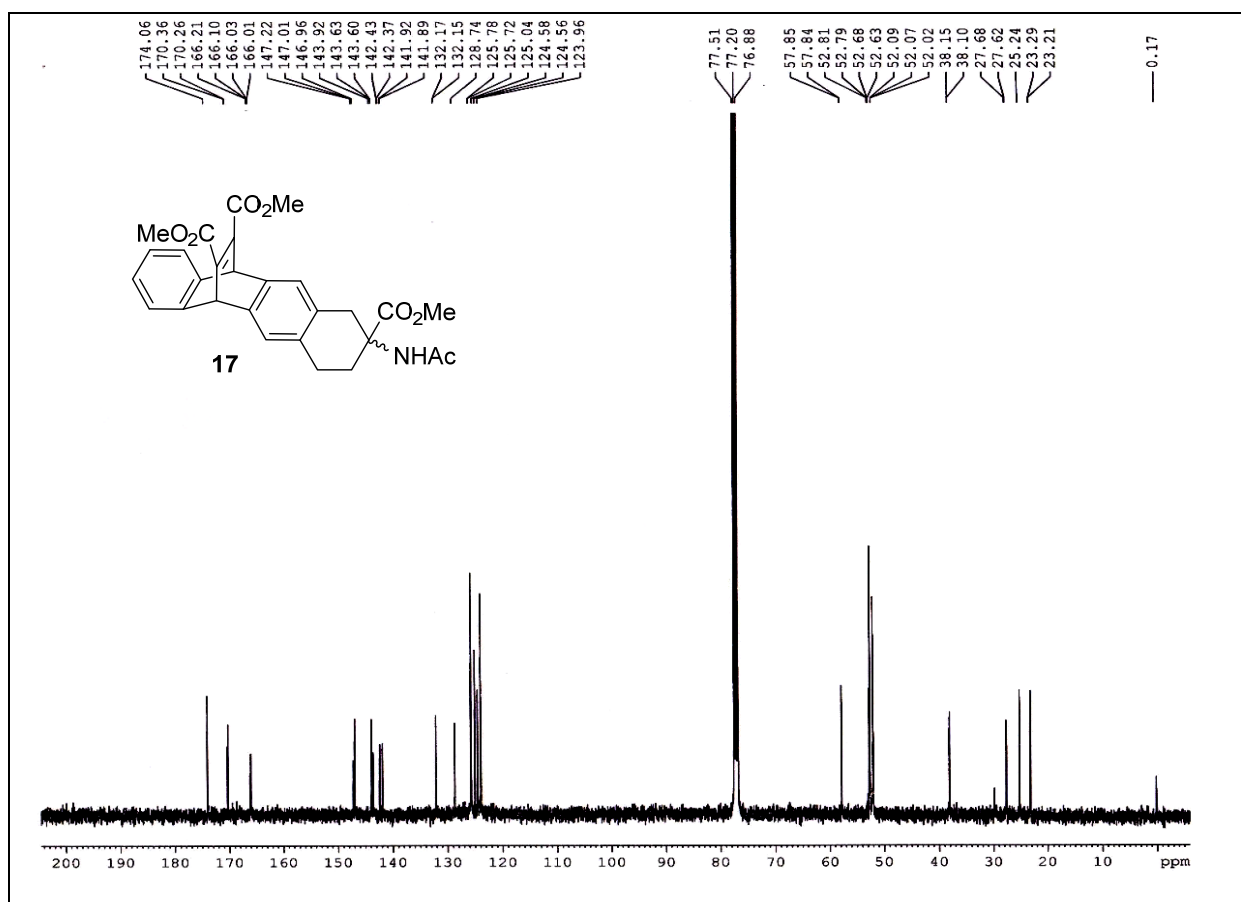
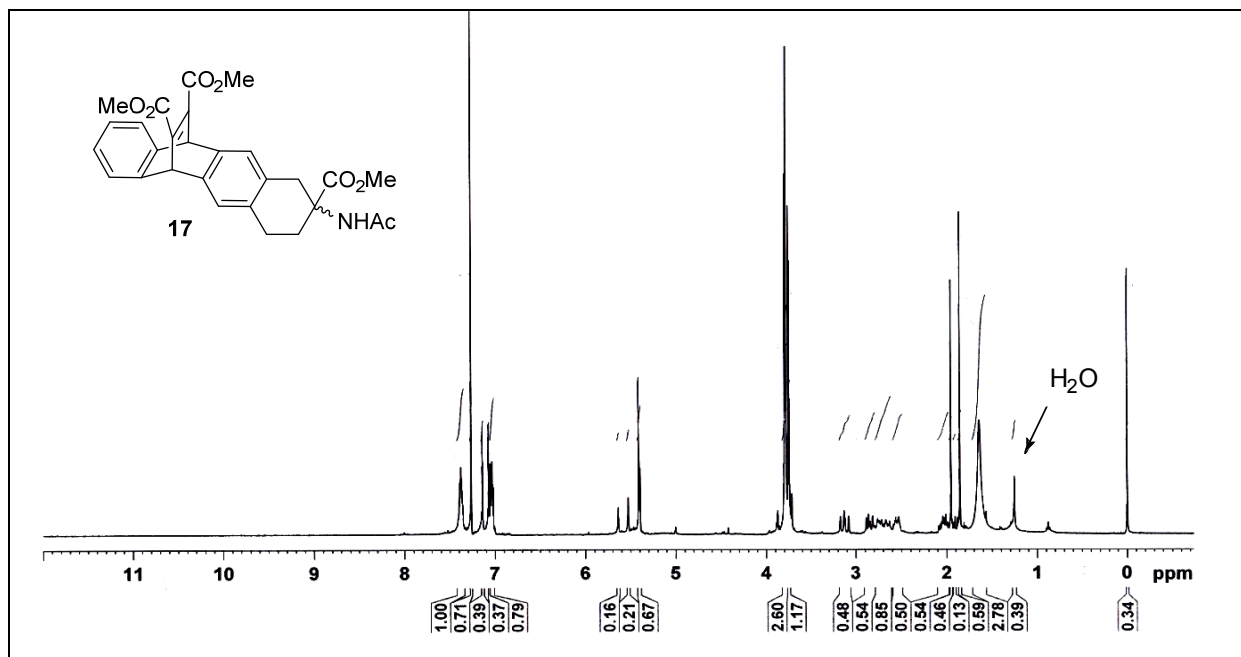
<sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>) and <sup>13</sup>C NMR (100.6 MHz, CDCl<sub>3</sub>) spectrum of compound **26**



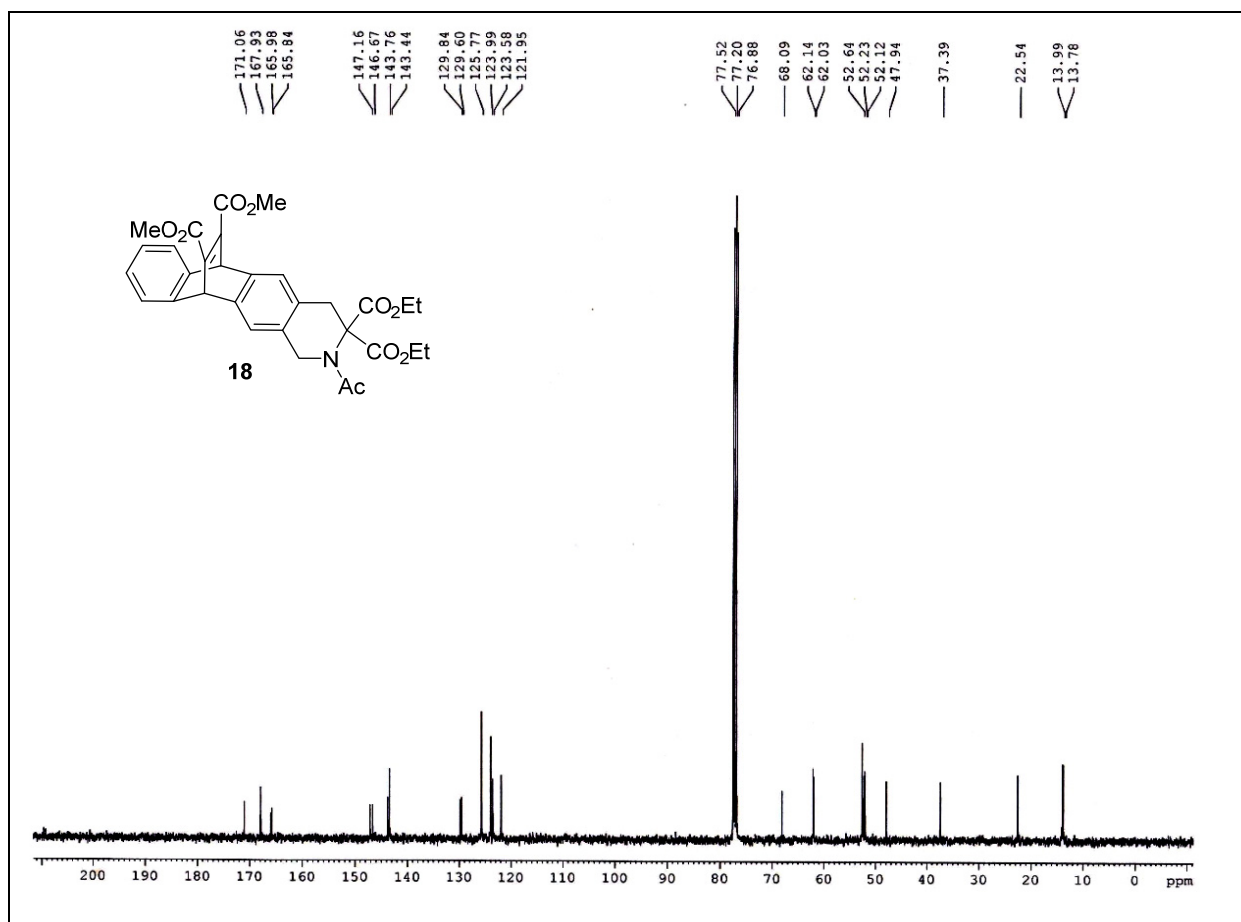
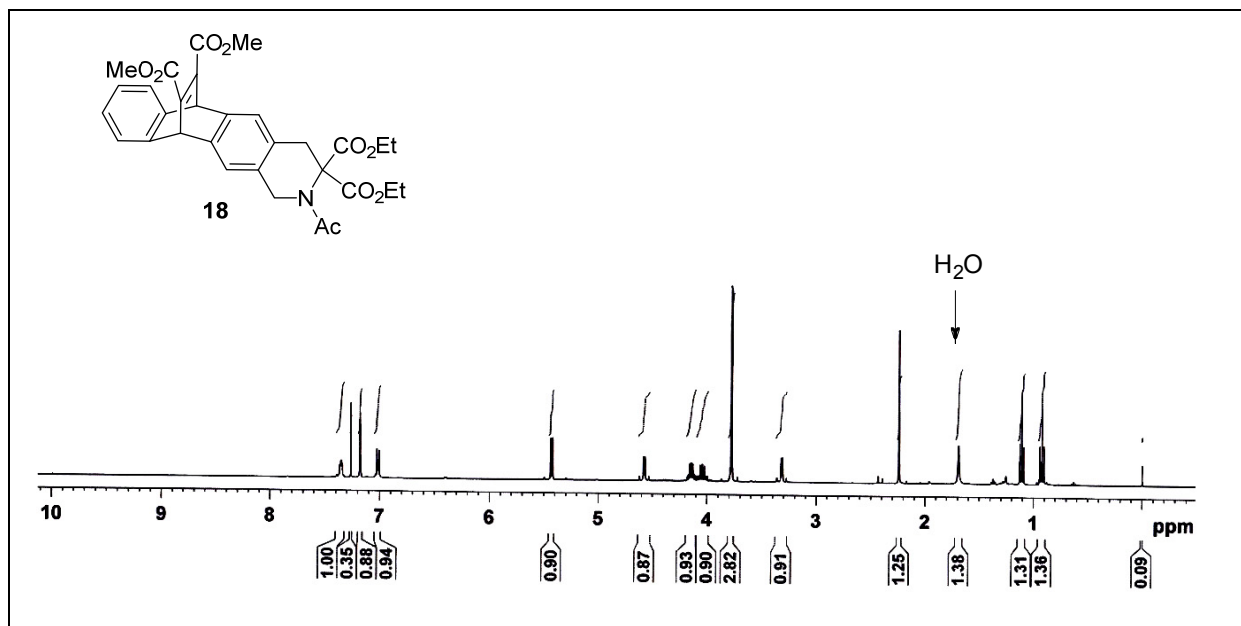
<sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>) NMR (100.6 MHz, CDCl<sub>3</sub>) spectrum of compound 27



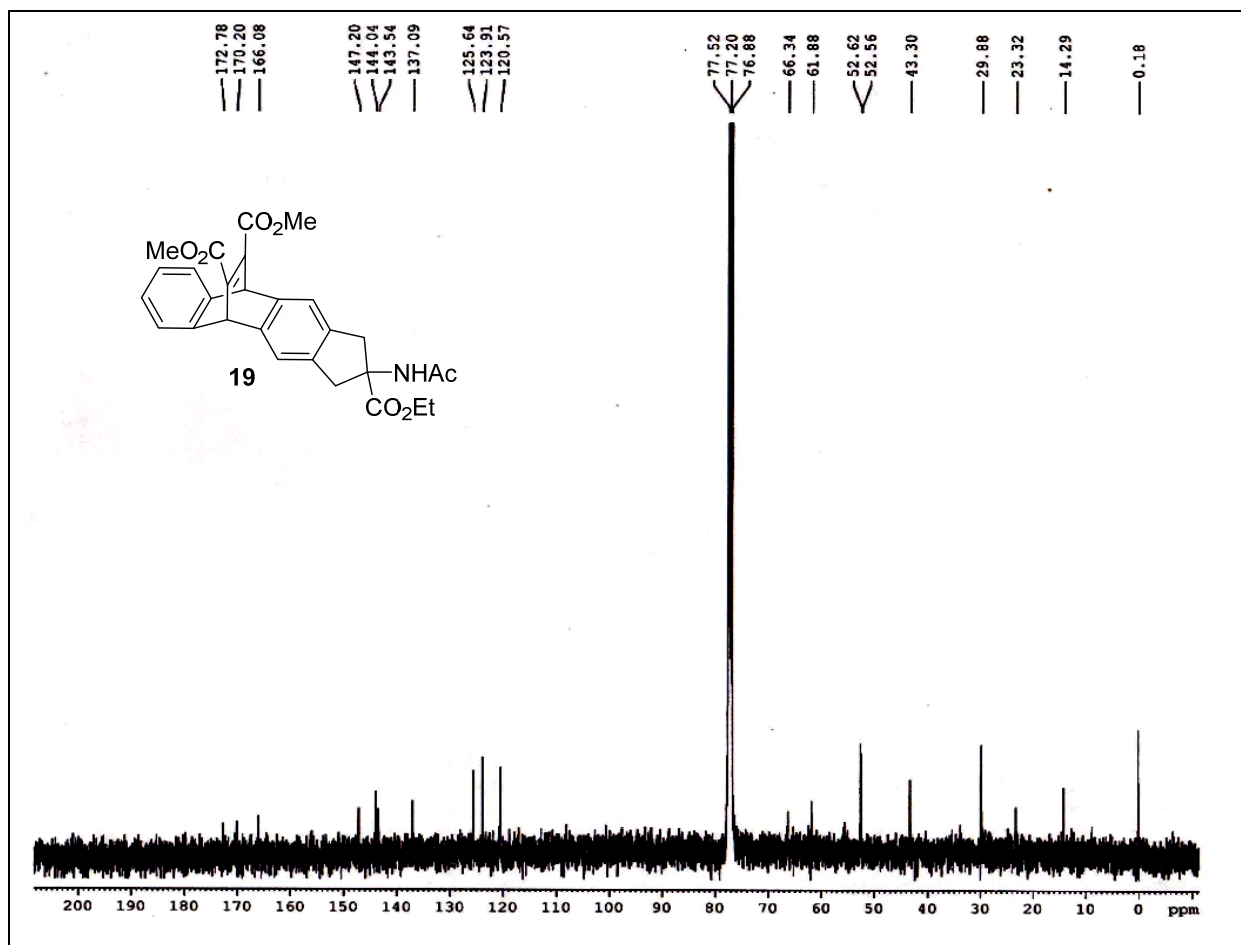
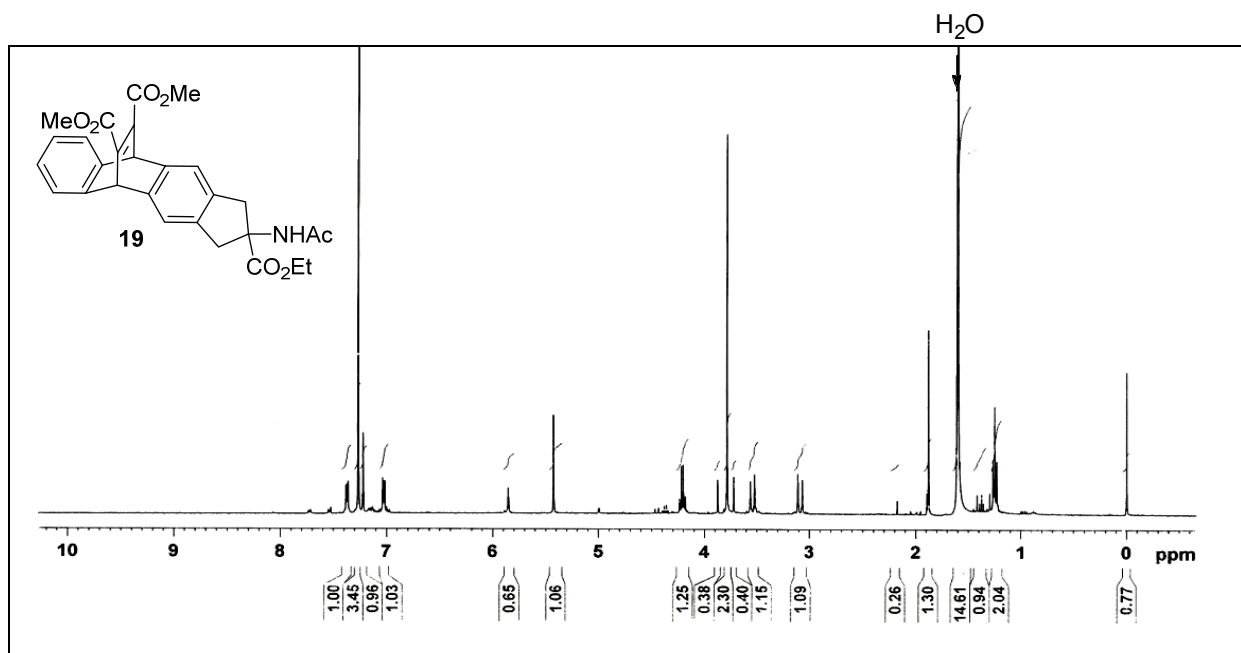
<sup>13</sup>C NMR (100.6 MHz, CDCl<sub>3</sub>) spectrum of compound **27**



<sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>) and <sup>13</sup>C NMR (100.6 MHz, CDCl<sub>3</sub>) spectrum of compound 17



$^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ ) and  $^{13}\text{C}$  NMR (100.6 MHz,  $\text{CDCl}_3$ ) spectrum of compound **18**



<sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>) and <sup>13</sup>C NMR (100.6 MHz, CDCl<sub>3</sub>) spectrum of compound 19