**Supporting Information**


**Synthesis and pharmacological evaluation of thiophene bioisosteres of**

**potent GluN2B ligands with a benzo[7]annulene-scaffold**

Sören Baumeister,[a] Dirk Schepmann,[a] Bernhard Wünsch[a,b]


[a] Institut für Pharmazeutische und Medizinische Chemie der Universität Münster,
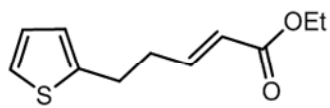
Corrensstraße 48, D-48149 Münster, Germany.

Tel.: +49-251-83-33311; Fax: +49-251-83-32144; wuensch@uni-muenster.de

[b] Cells-in-Motion Cluster of Excellence (EXC 1003 – CiM), Westfälische Wilhelms-
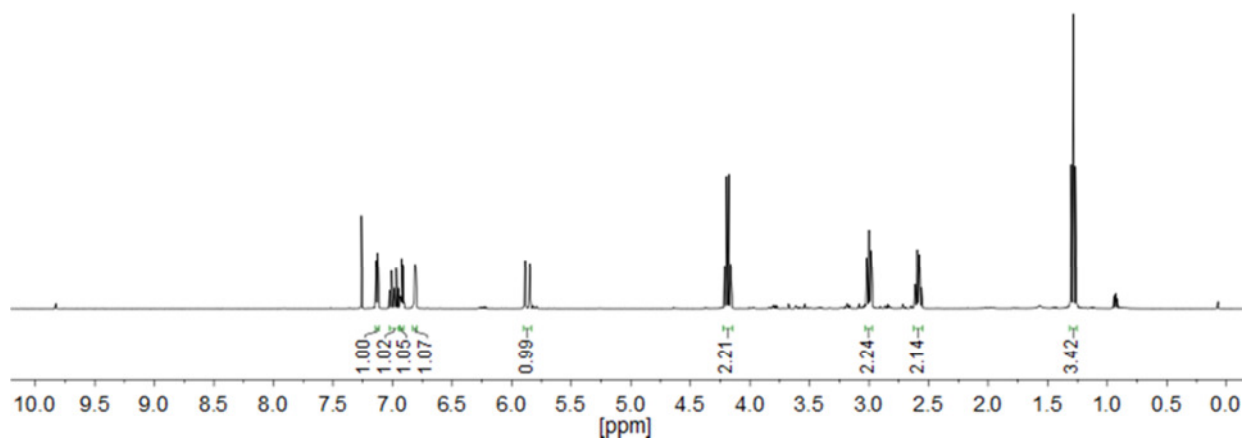
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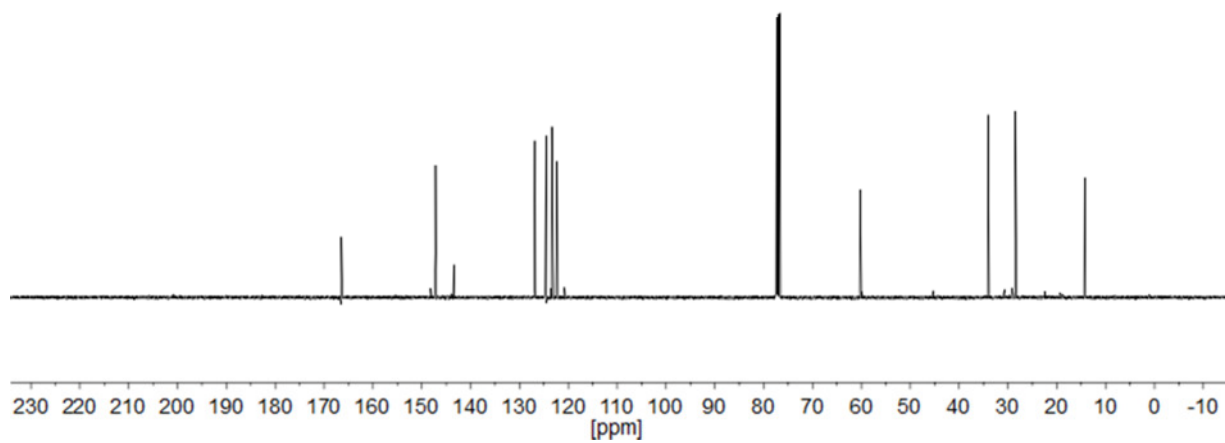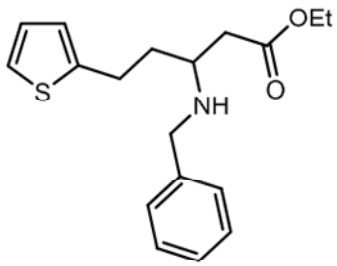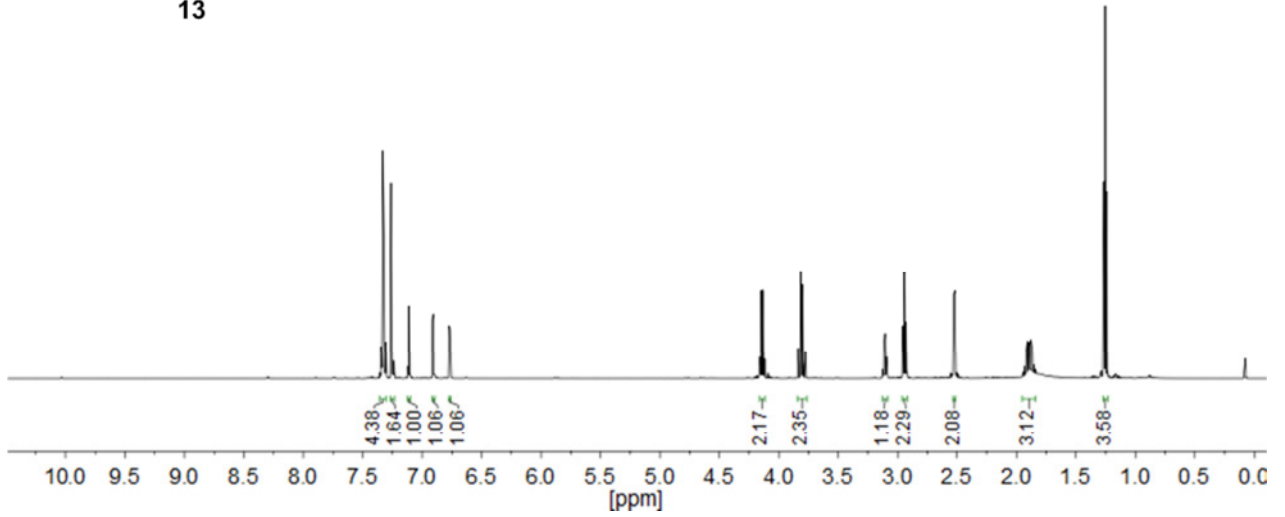
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**NMR spectra of prepared compounds**

$^1$H NMR-Spectrum (CDCl$_3$) of **10**.



$^{13}$C NMR-Spectrum (CDCl$_3$) of **10**.
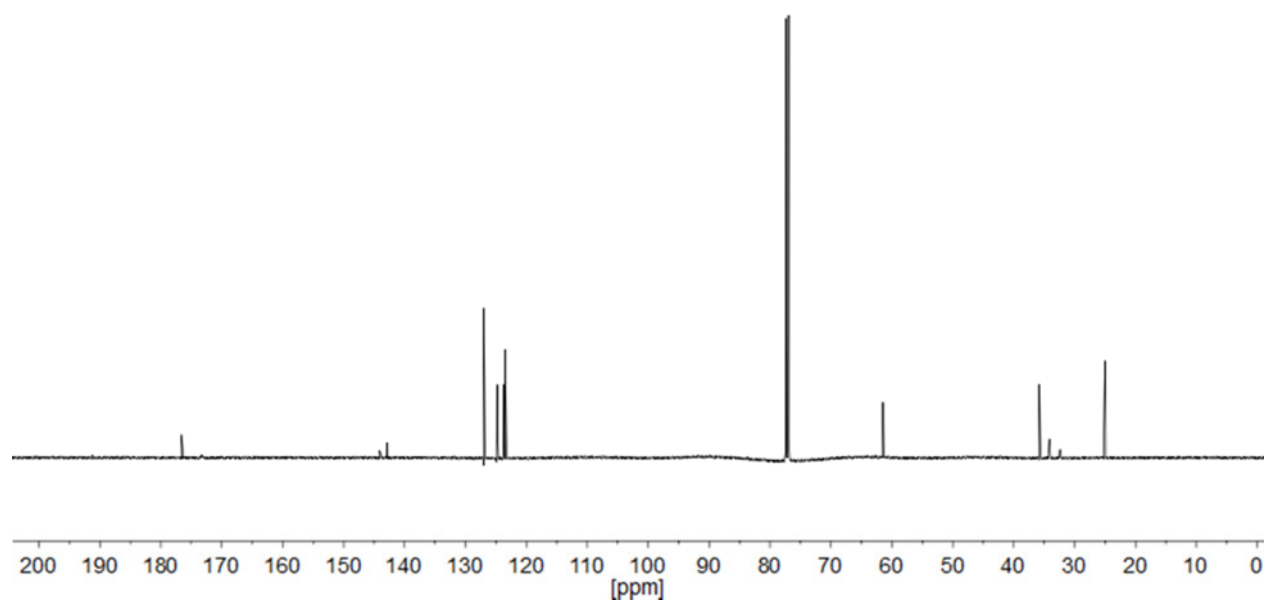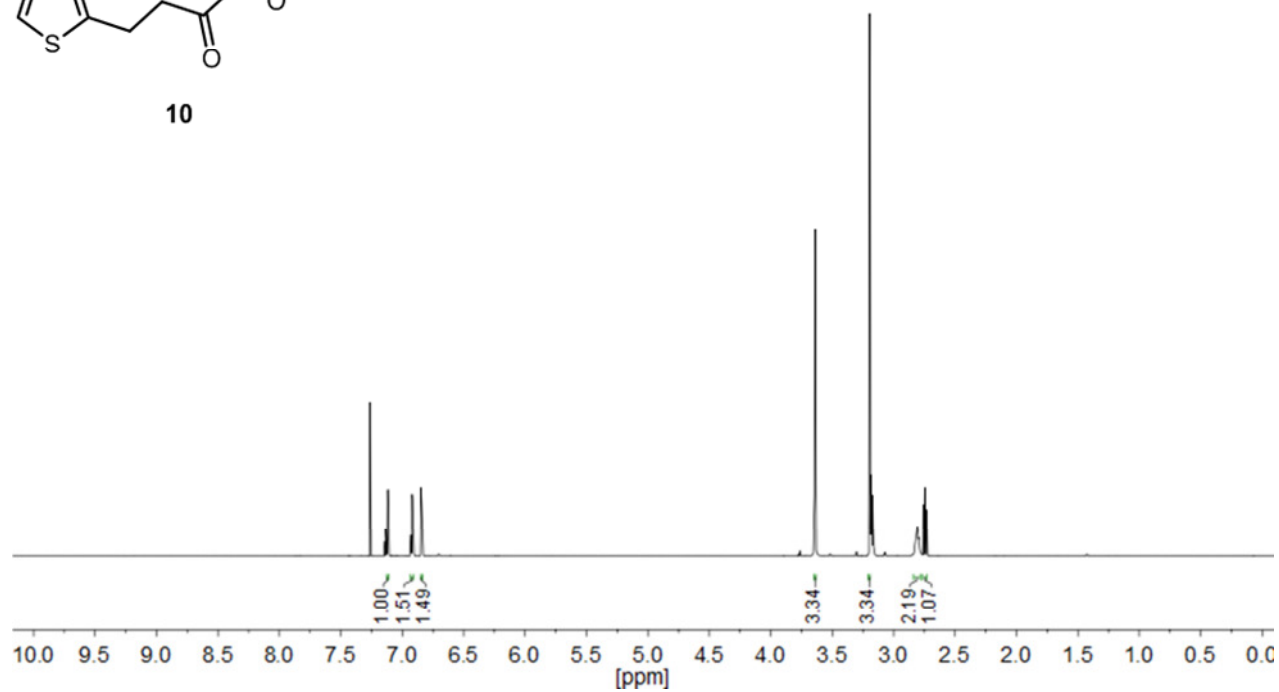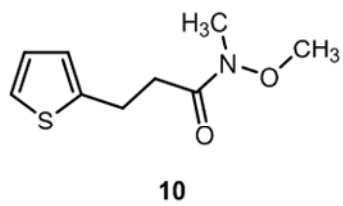
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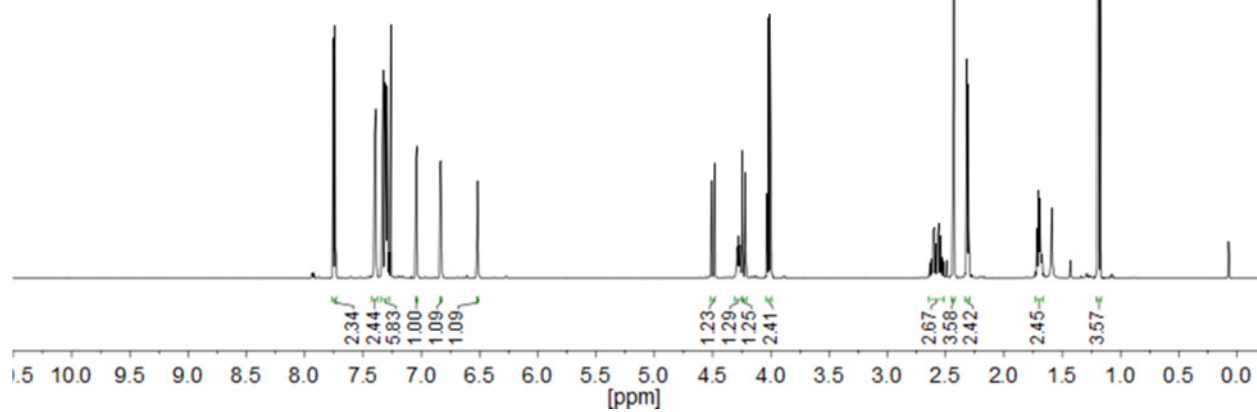

$^1$H NMR-Spectrum (CDCl$_3$) of **12**.



$^{13}$C NMR-Spectrum (CDCl$_3$) of **12**.

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$^1$H NMR-Spectrum (CDCl$_3$) of **13**.
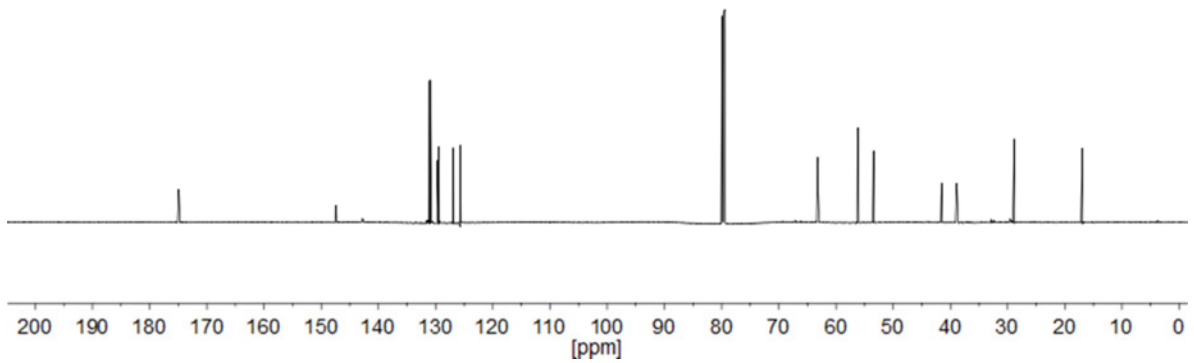


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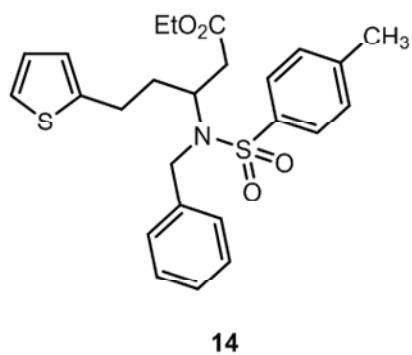
$^1$H NMR-Spectrum (CDCl$_3$) of **14**.



$^{13}$C NMR-Spectrum (CDCl$_3$) of **14**.

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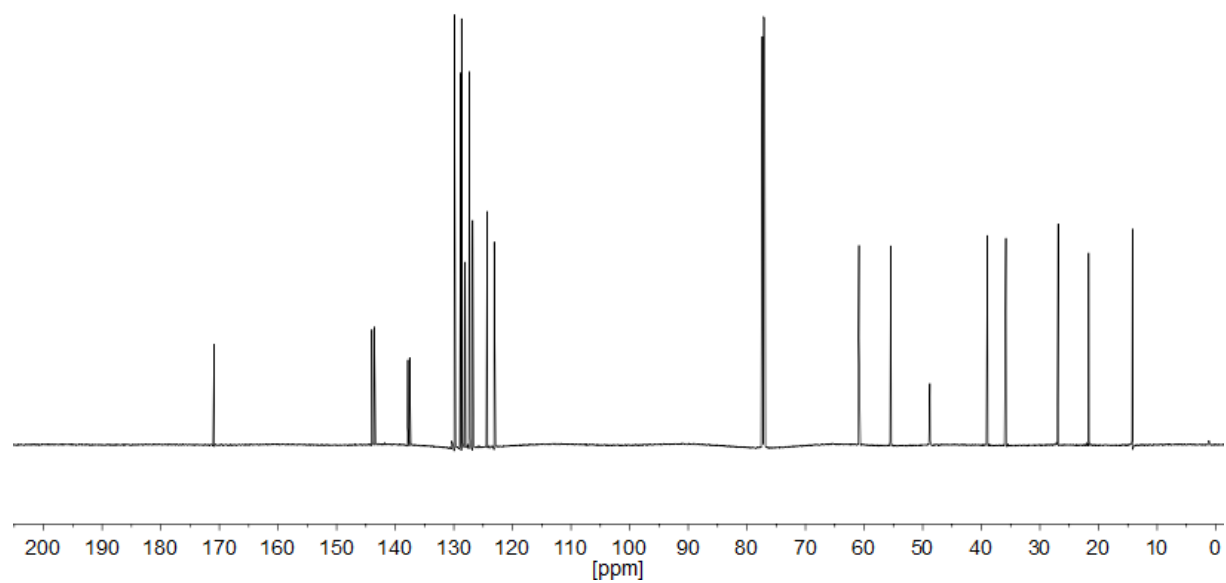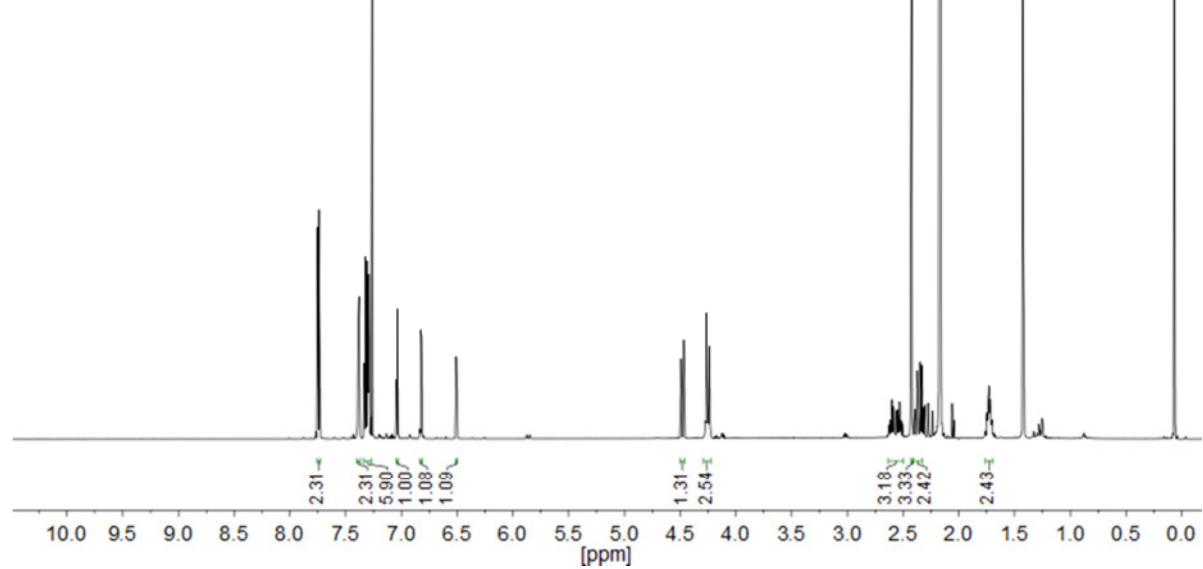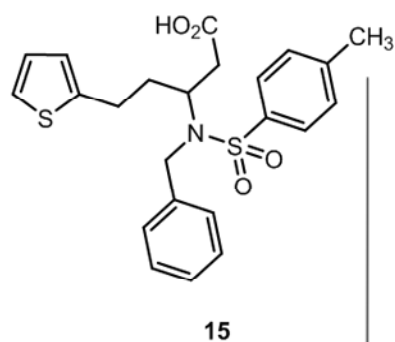
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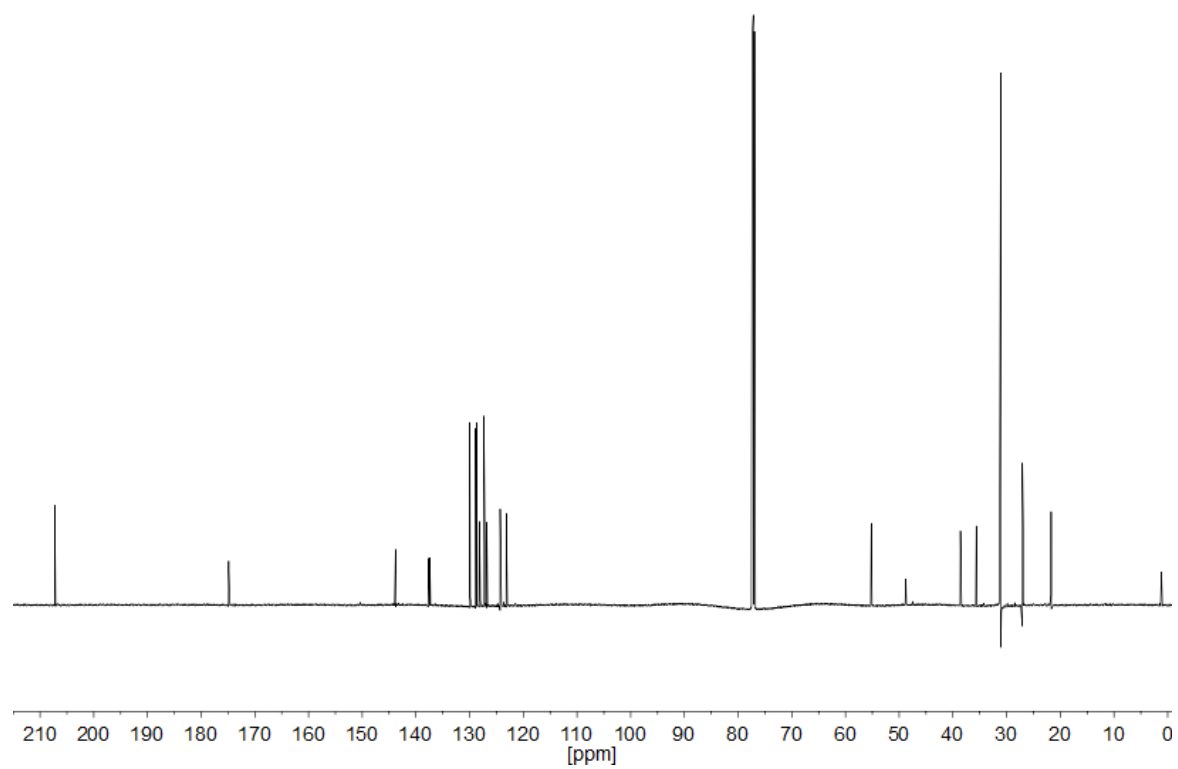


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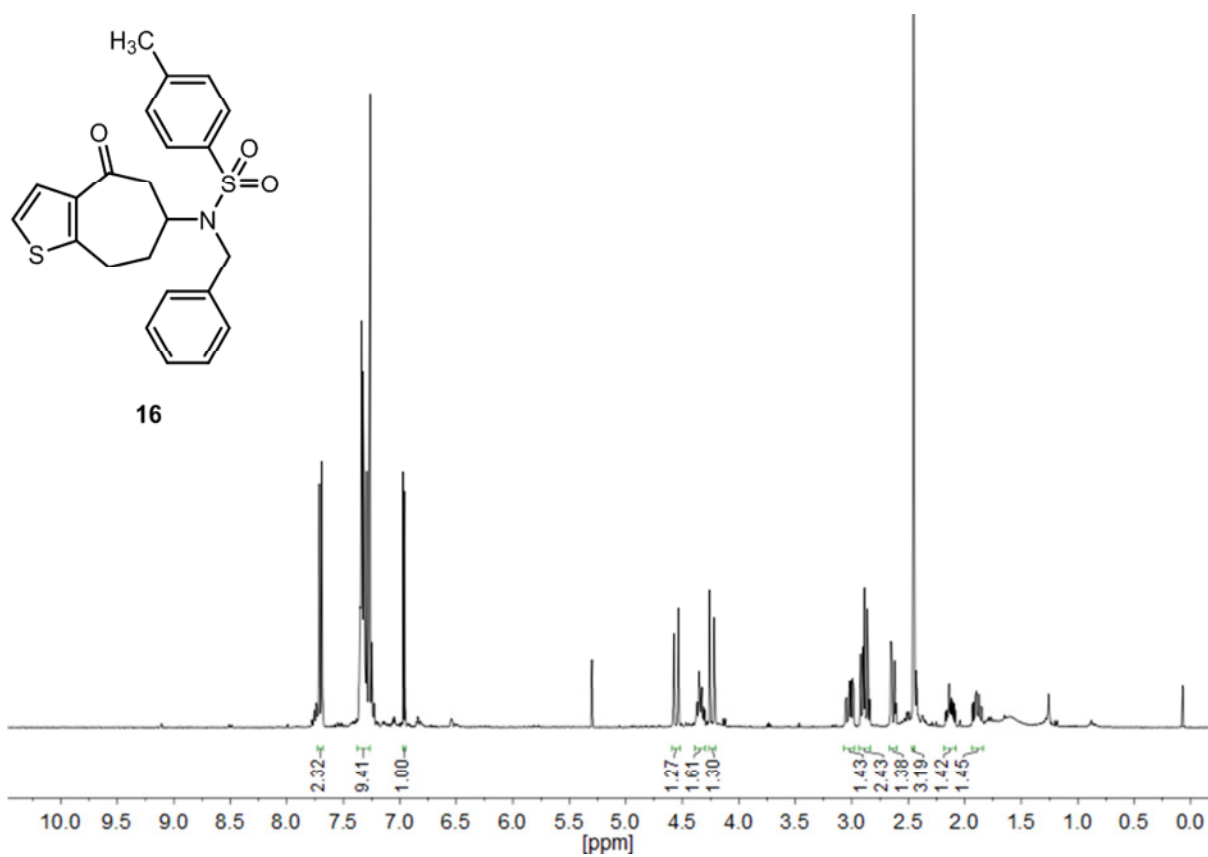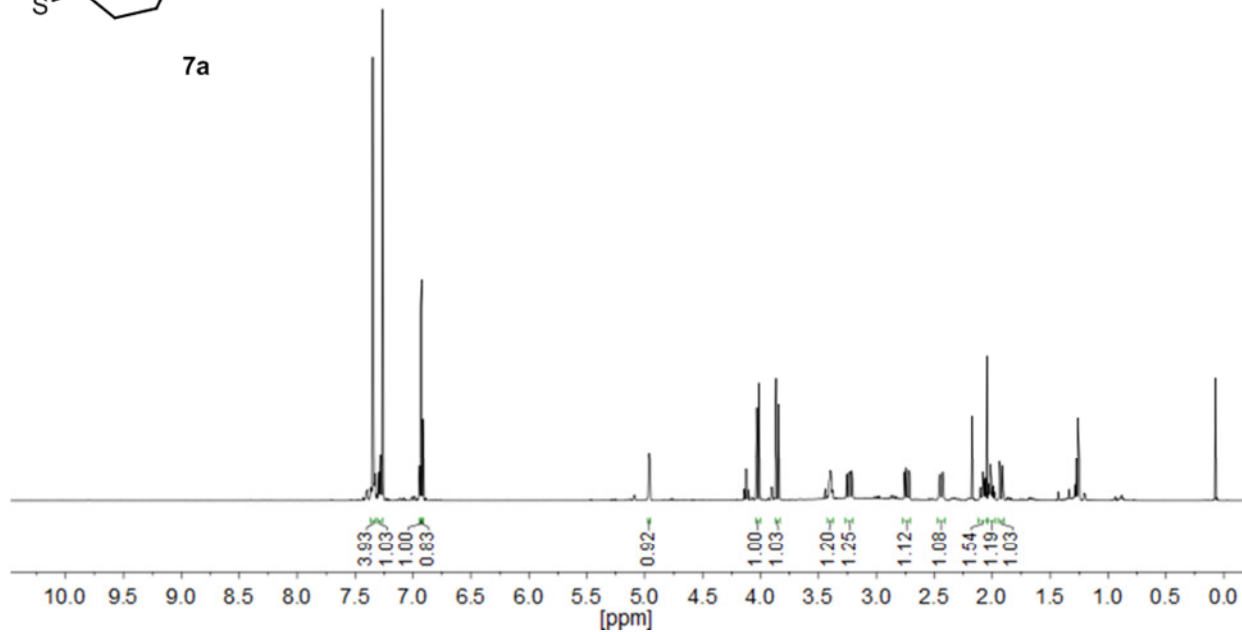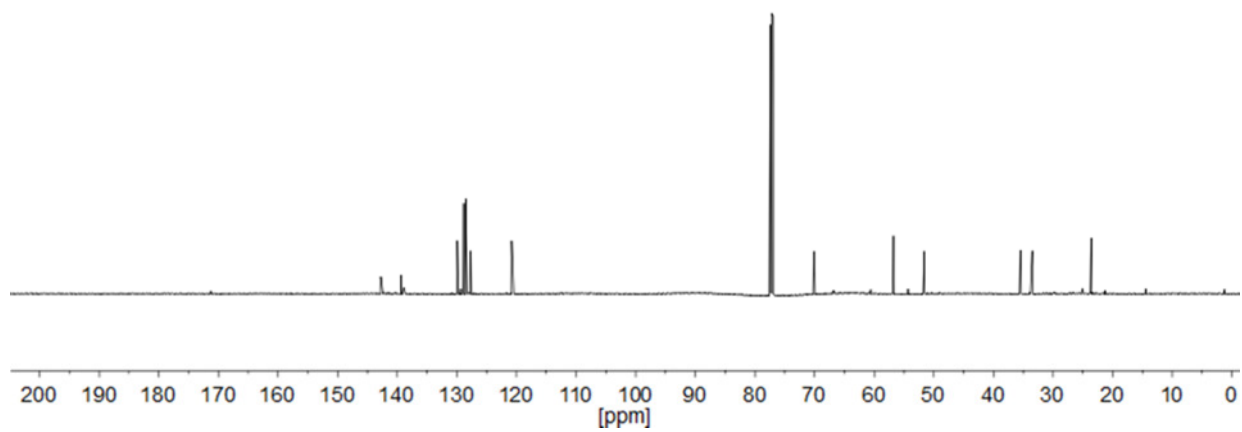
$^1$H NMR-Spectrum (CDCl$_3$) of **16**.
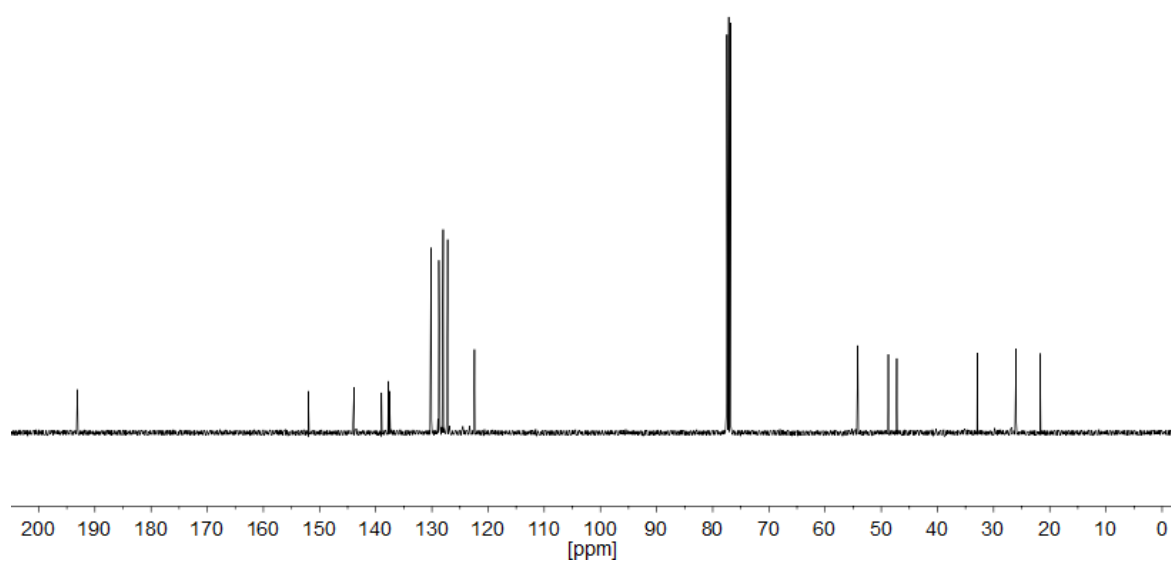


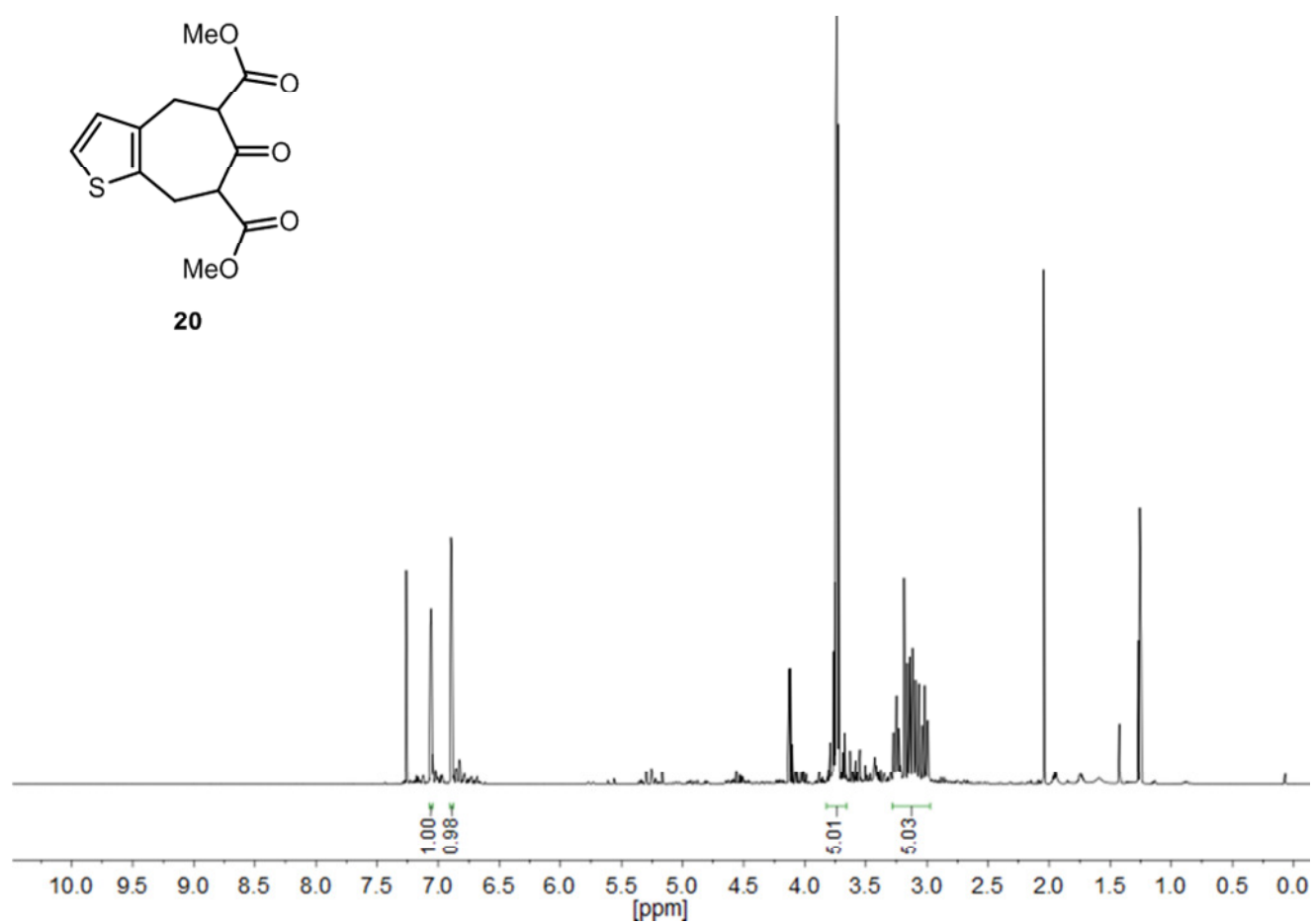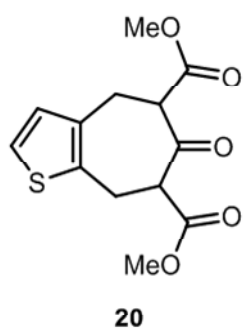$^{13}$C NMR-Spectrum (CDCl$_3$) of **16**.
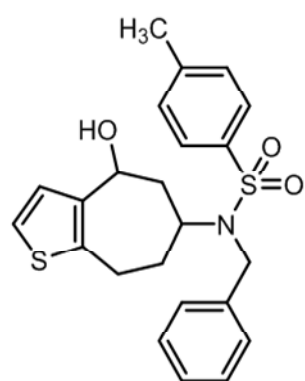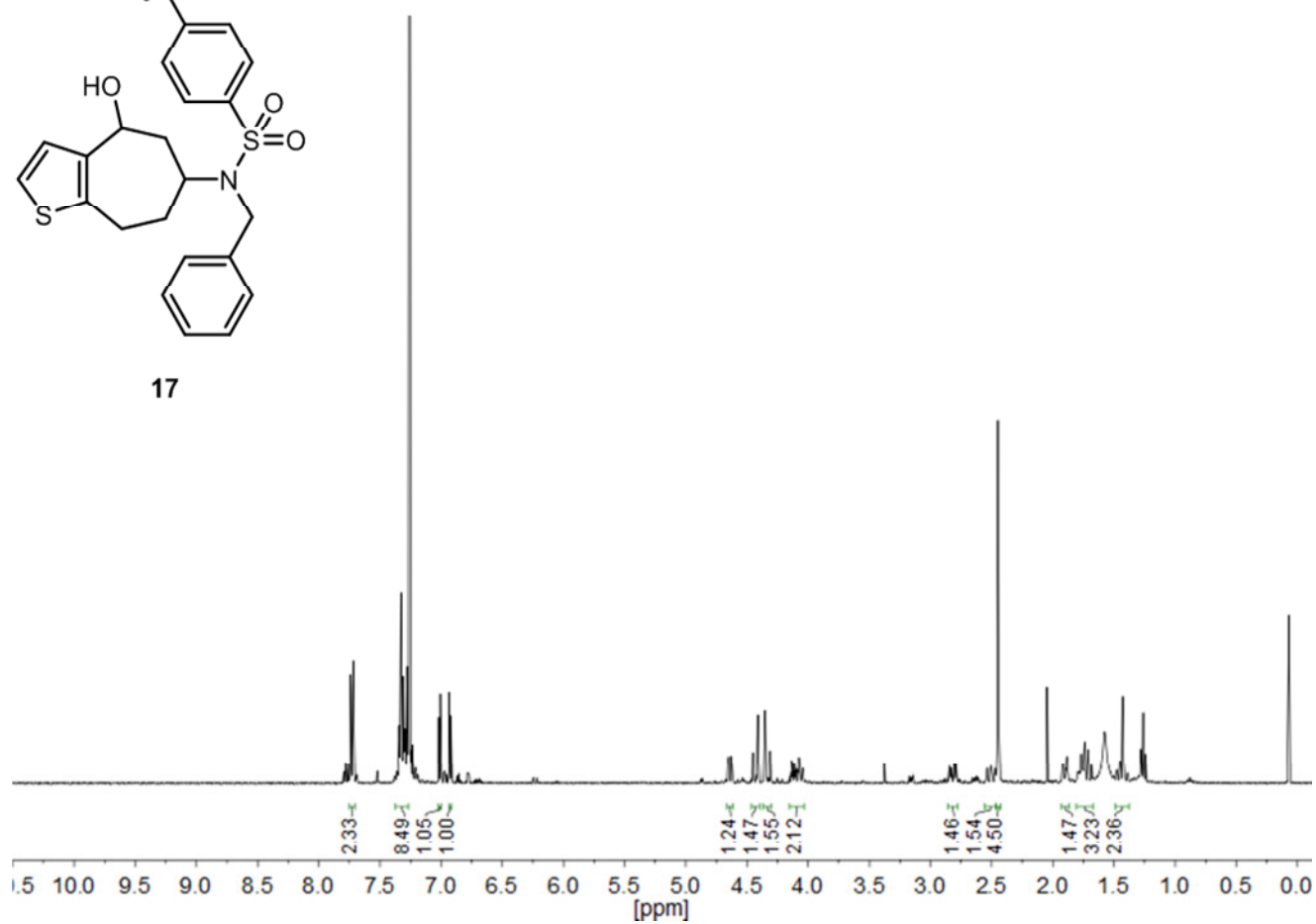
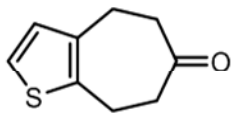$^1$H NMR-Spectrum (CDCl$_3$) of **17**.
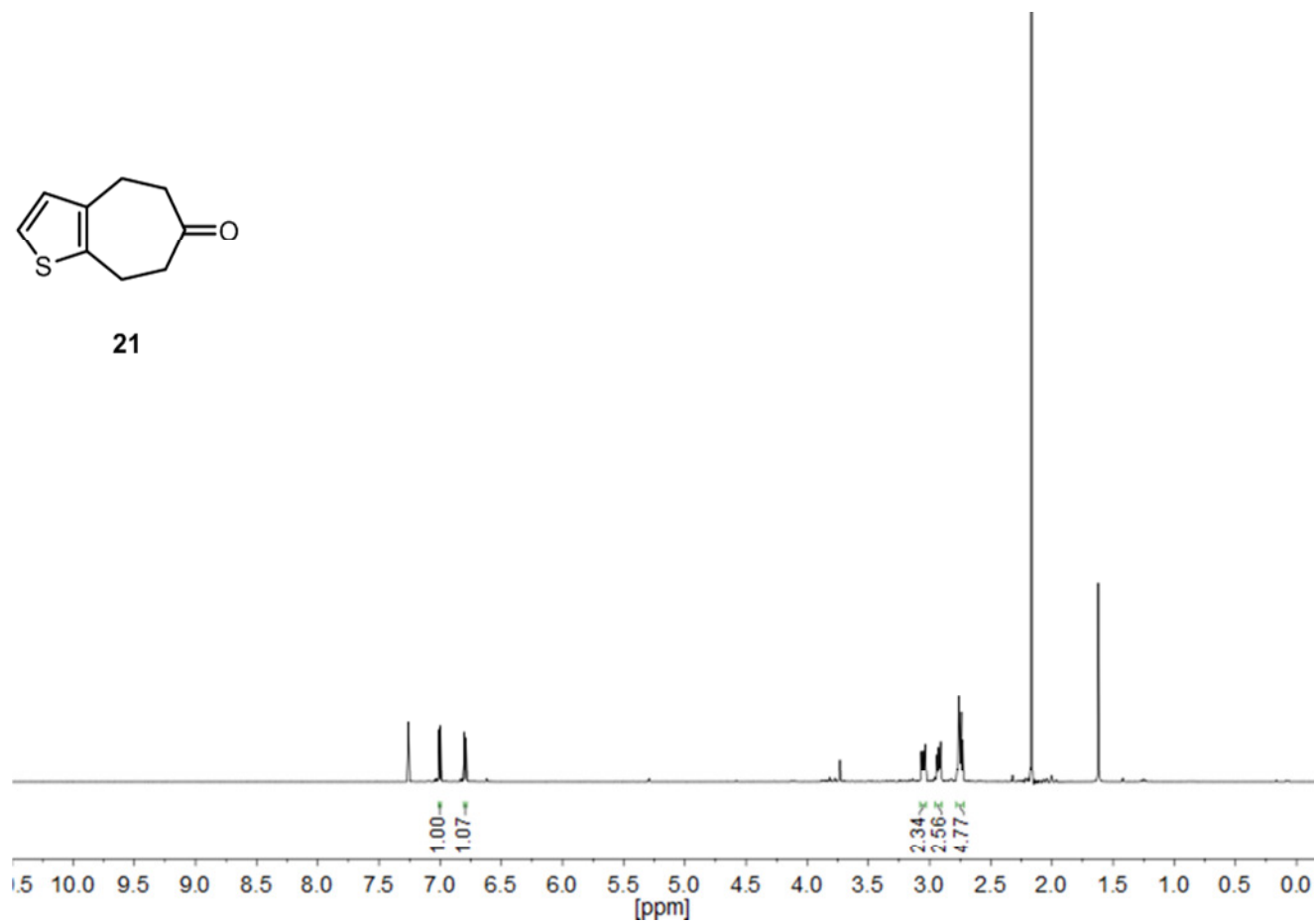
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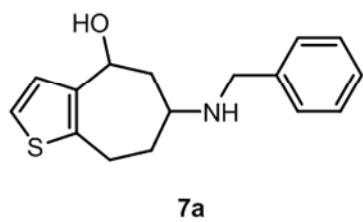
$^1$H NMR-Spectrum (CDCl$_3$) of **7a**.



$^{13}$C NMR-Spectrum (CDCl$_3$) of **7a**.

$^1$H NMR-Spectrum (CDCl$_3$) of **20**.

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$^1$H NMR-Spectrum (CDCl$_3$) of **21**.
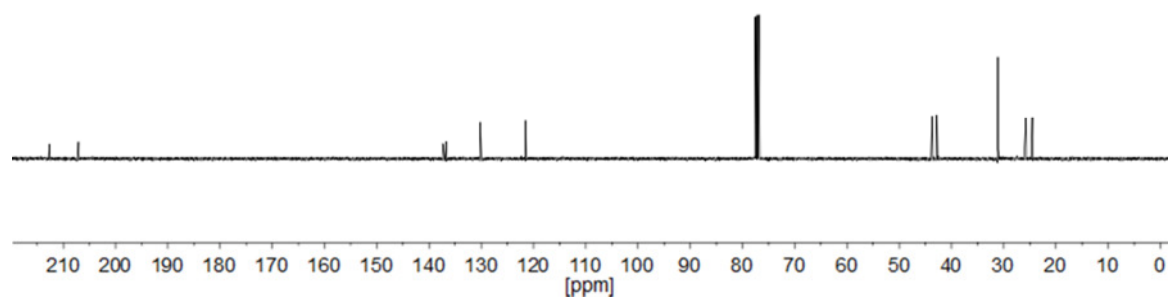


$^{13}$C NMR-Spectrum (CDCl$_3$) of **21**.
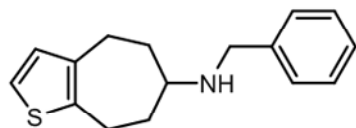
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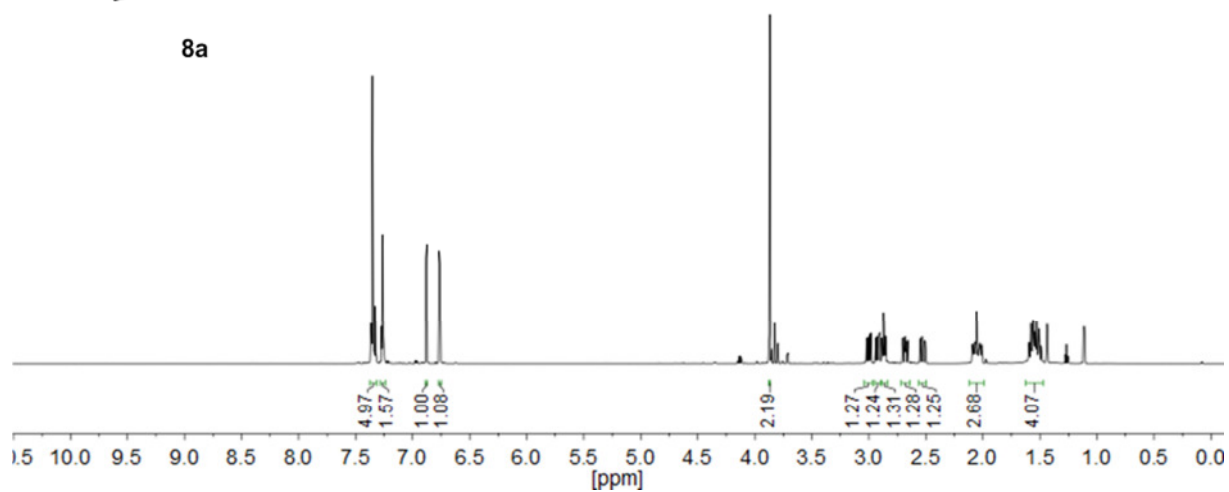
$^1$H NMR-Spectrum (CDCl$_3$) of **8a**.



$^{13}$C NMR-Spectrum (CDCl$_3$) of **8a**.