

Supporting Information

for

Effects of anion complexation on the photoreactivity

of bisureido- and bithioureido-substituted

dibenzobarrelene derivatives

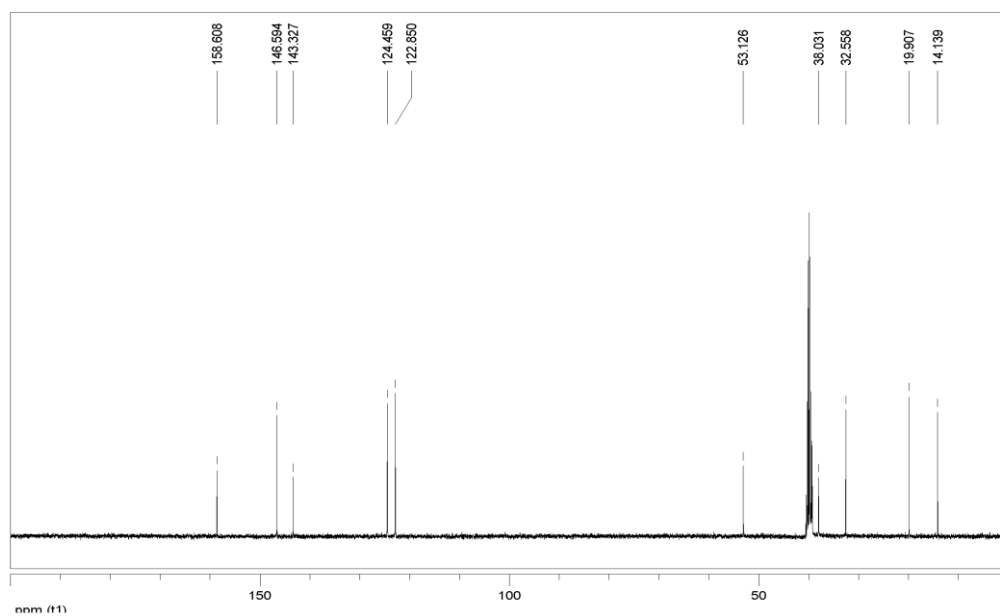
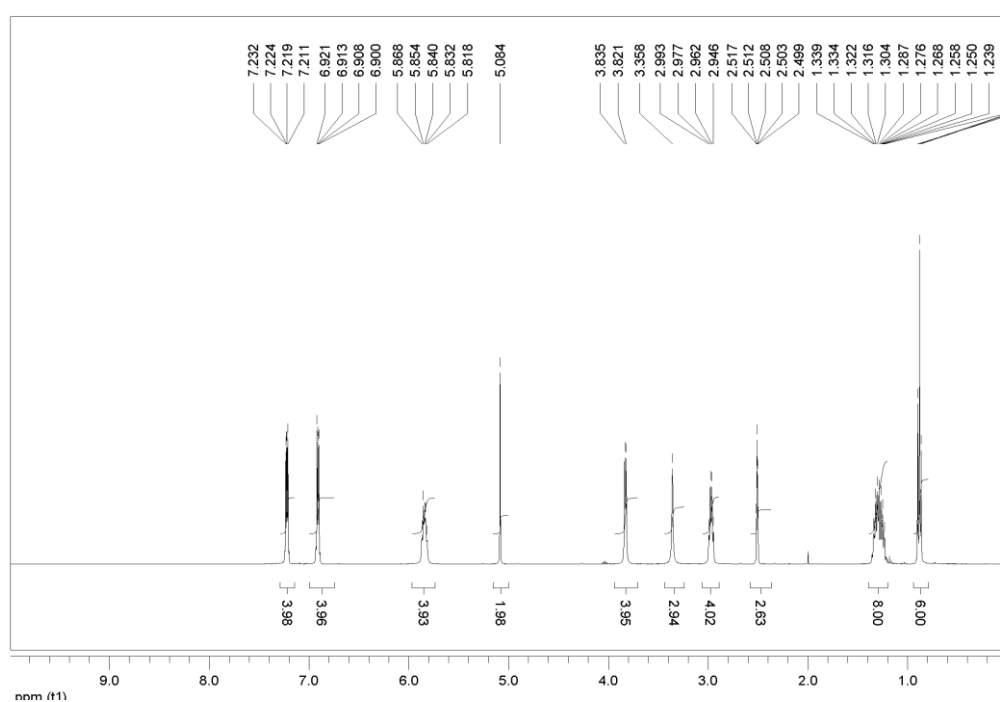
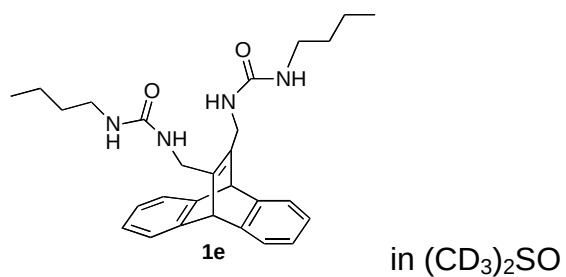
Heiko Ihmels* and Jia Luo

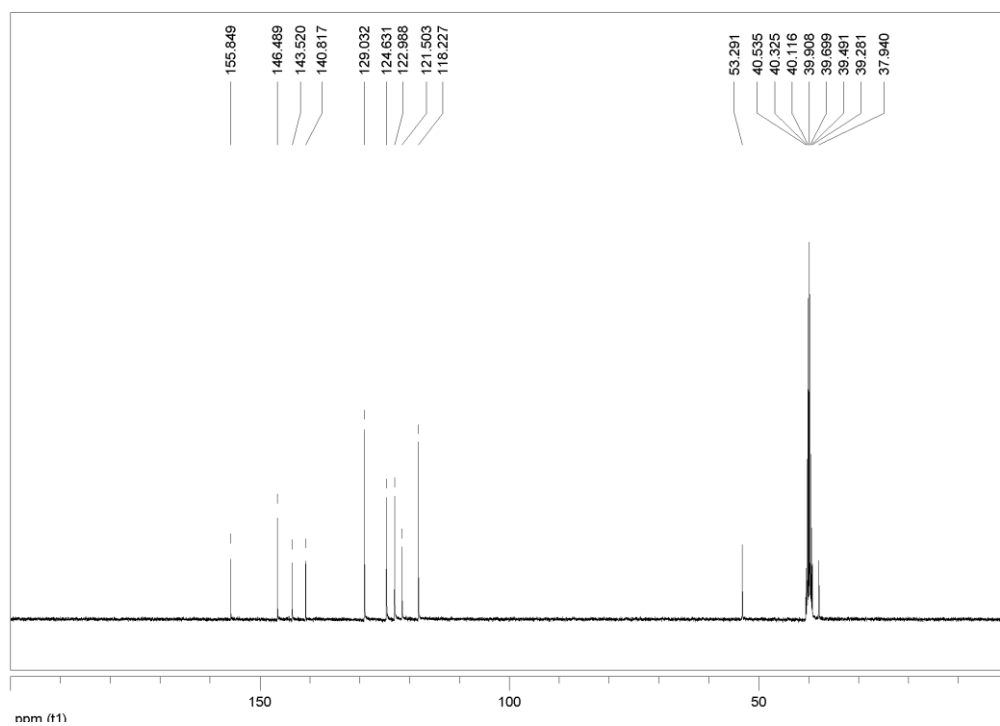
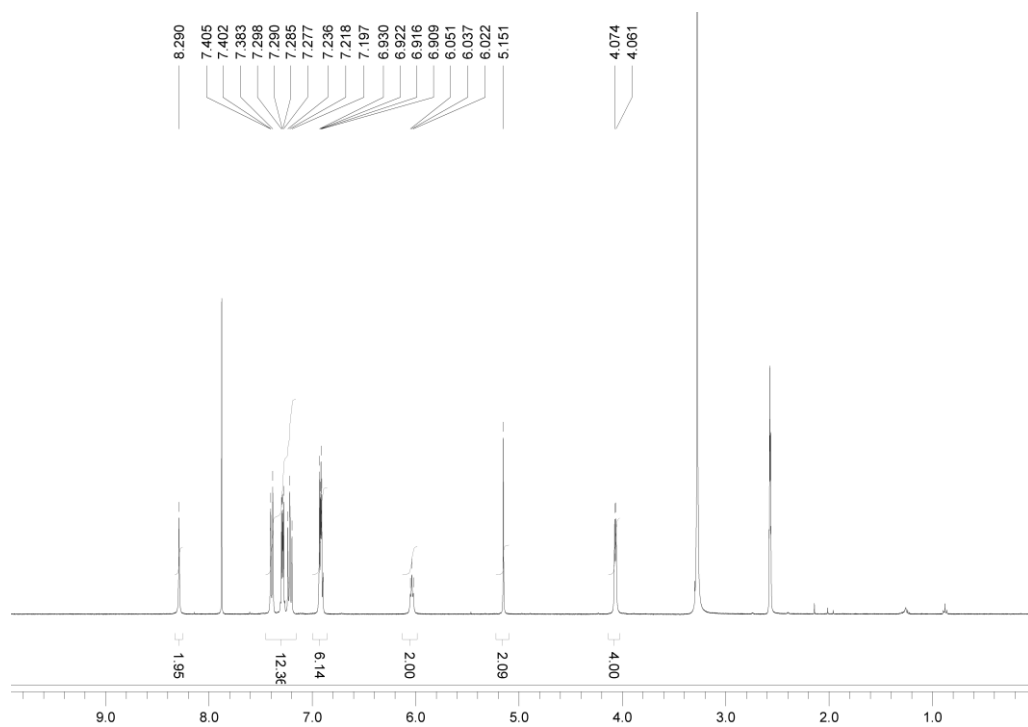
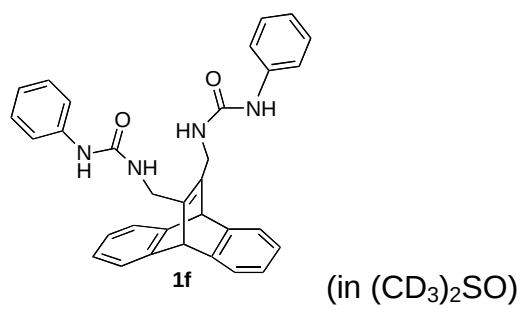
Address: Organic Chemistry II, University of Siegen, Adolf-Reichwein-Str. 2, D-57068
Siegen, Germany

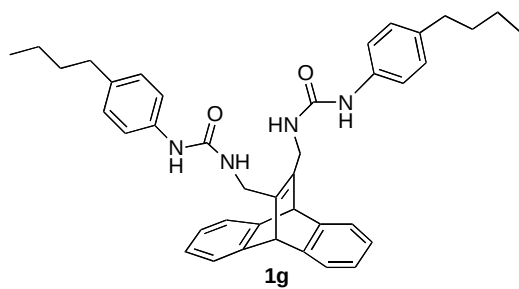
Email: Heiko Ihmels* - ihmels@chemie.uni-siegen.de

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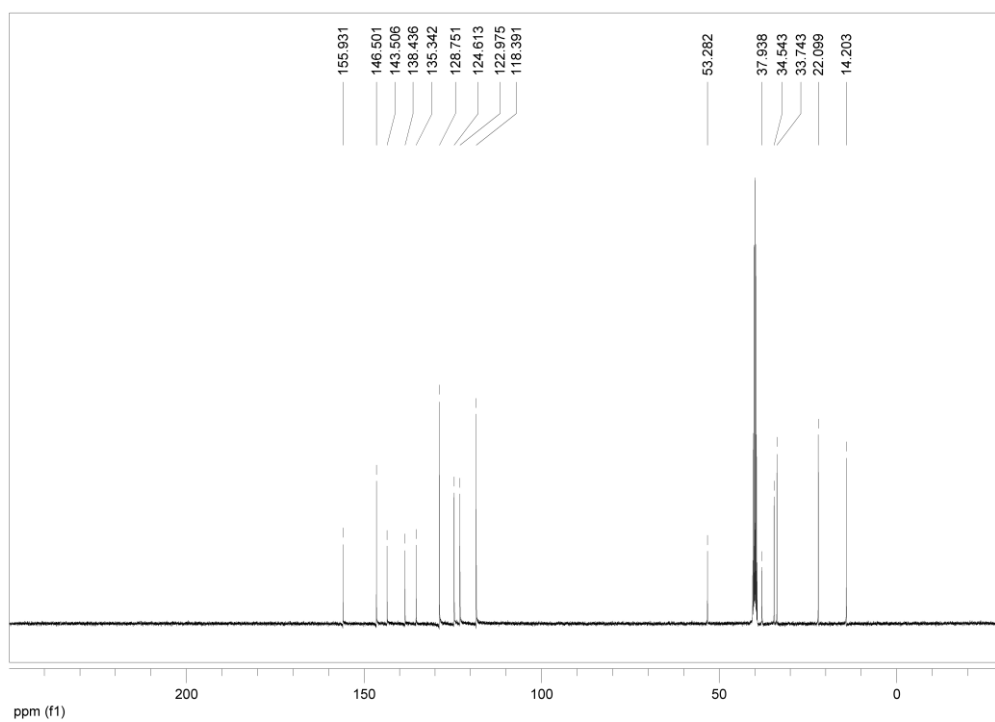
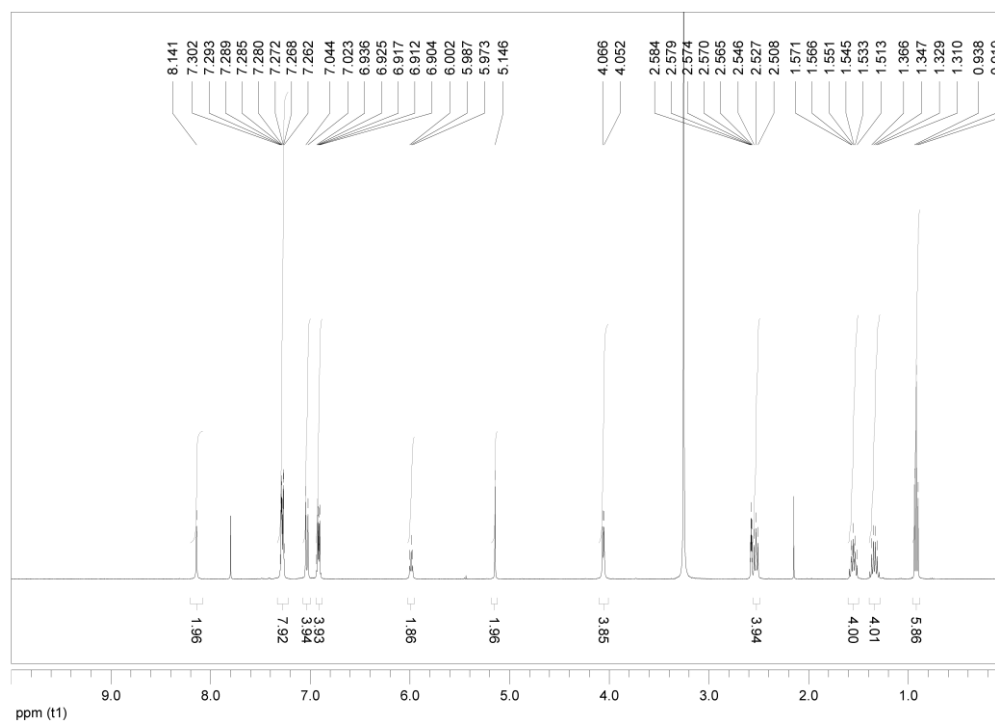
^1H NMR and ^{13}C NMR Spectra of Dibenzobarrelene and Semibullvalene Derivatives

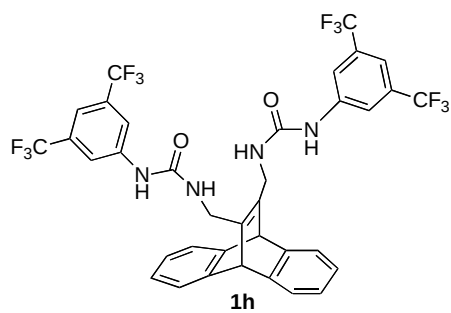




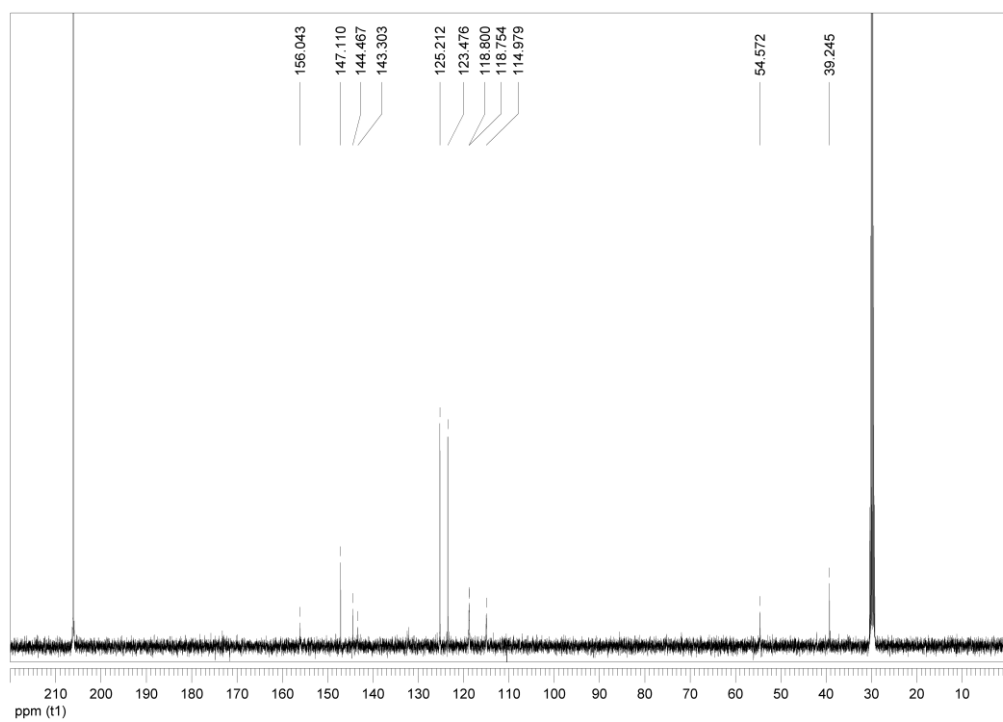
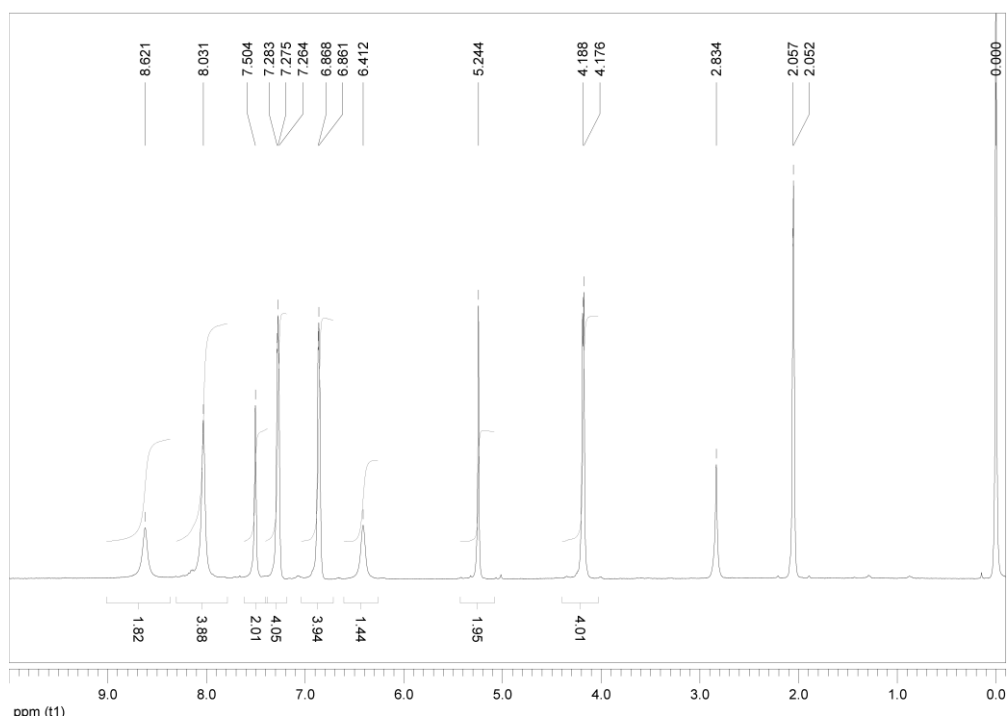


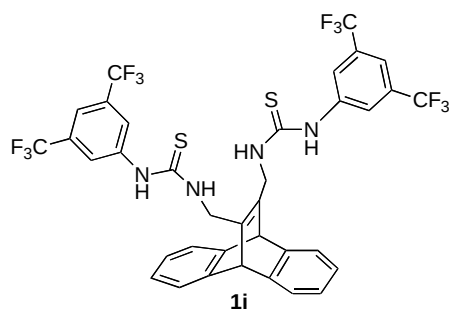
in (CD₃)₂SO



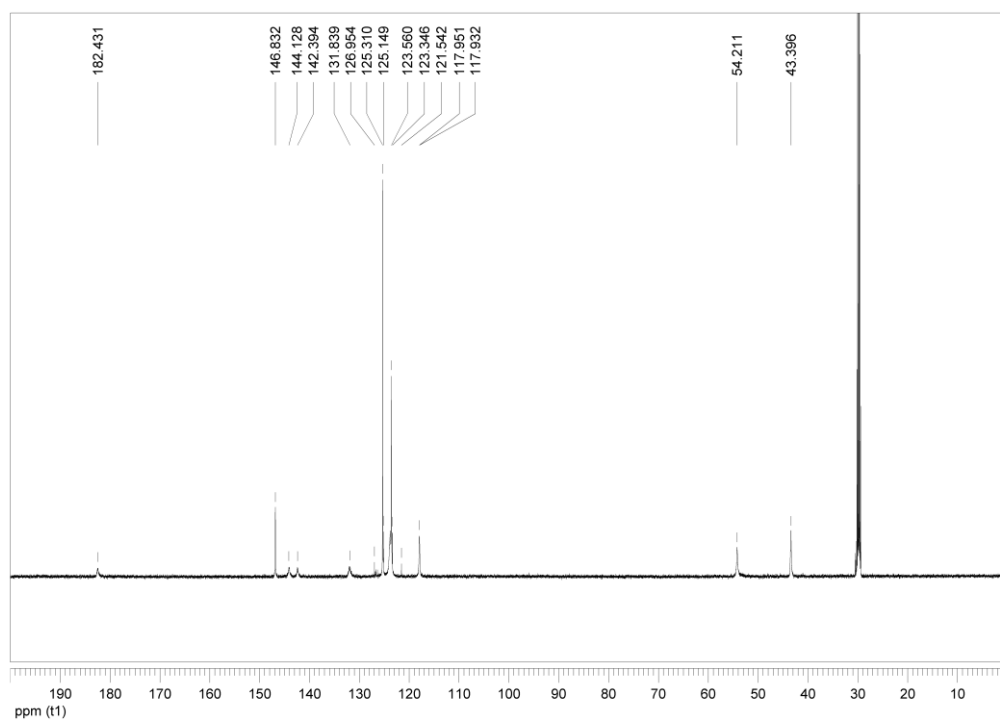
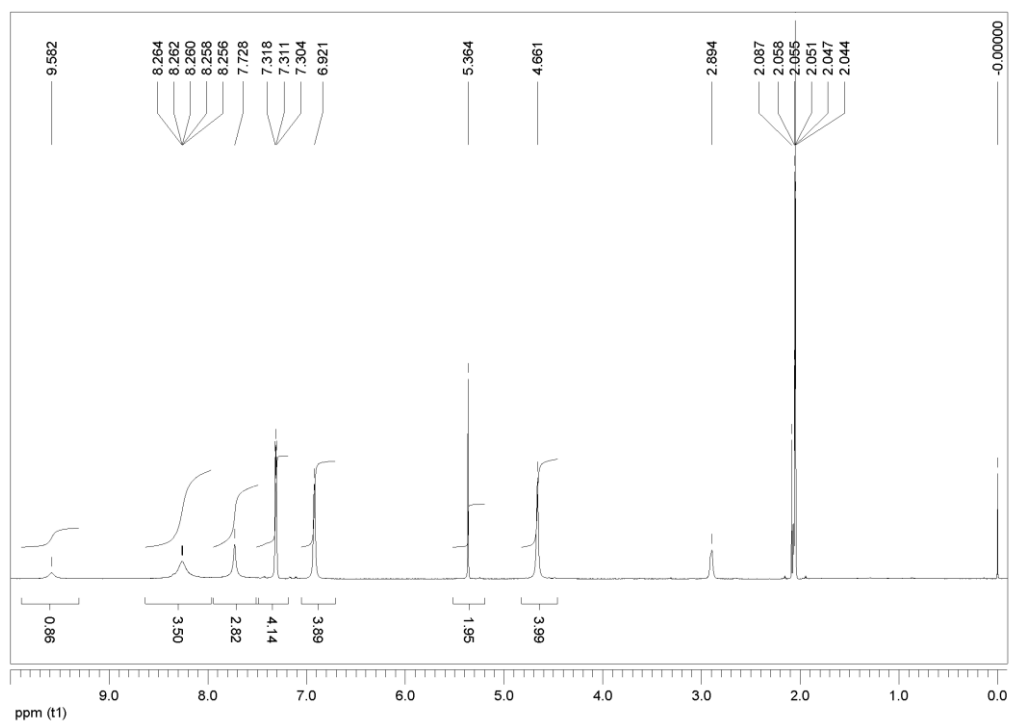


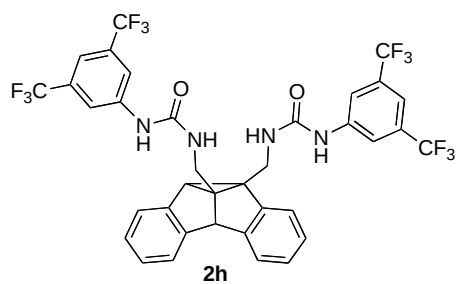
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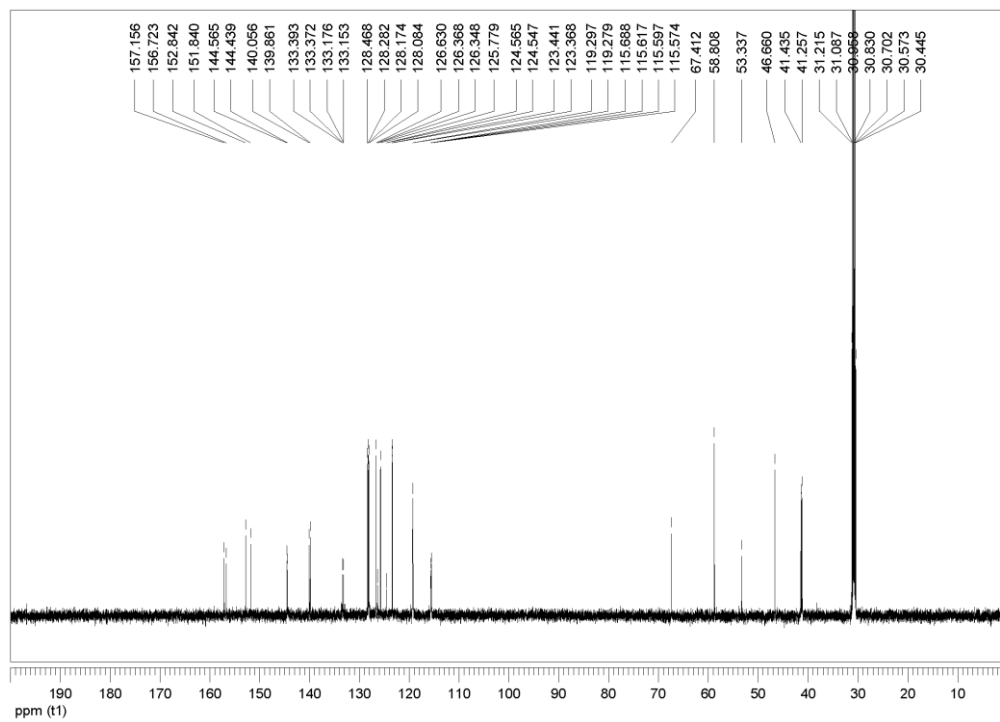
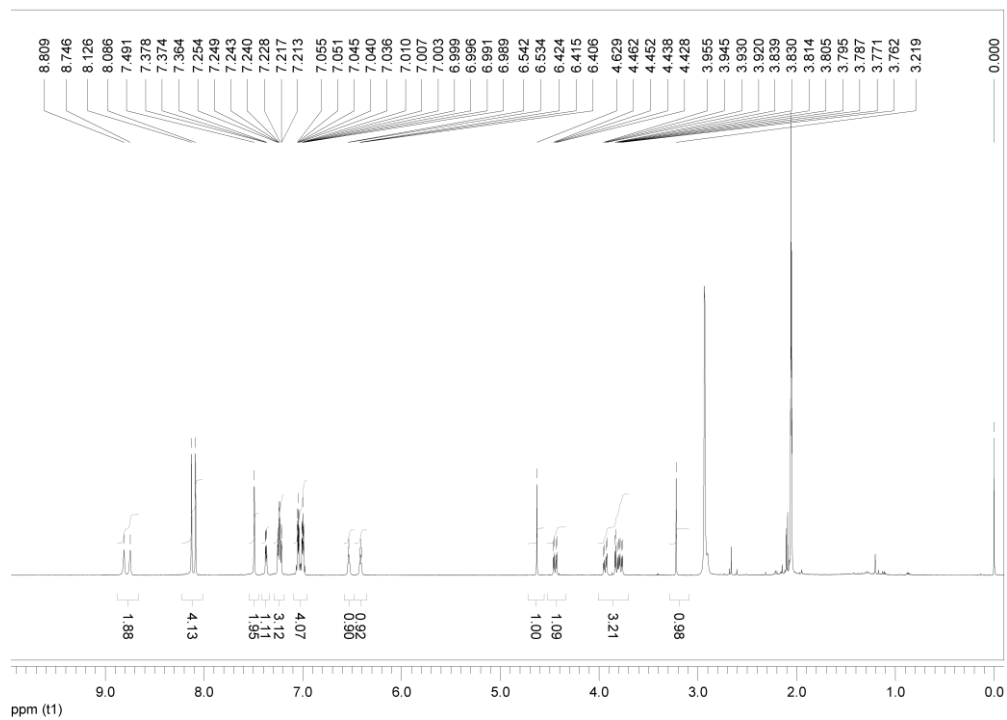


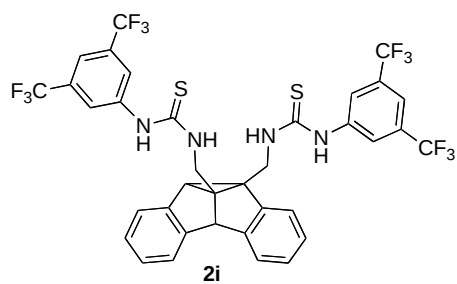
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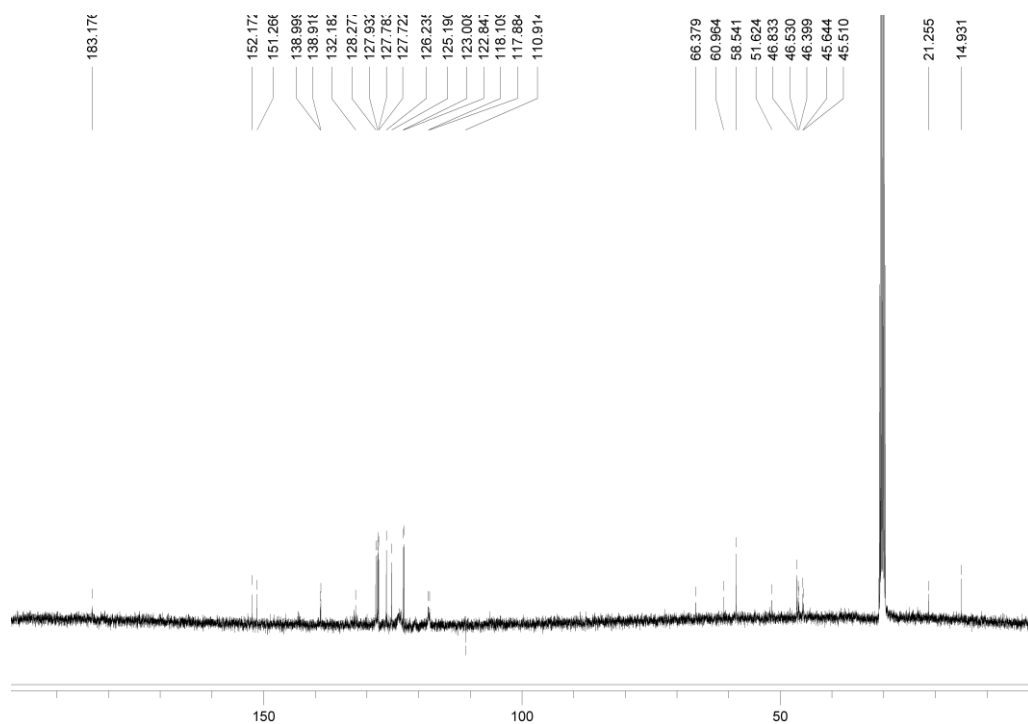
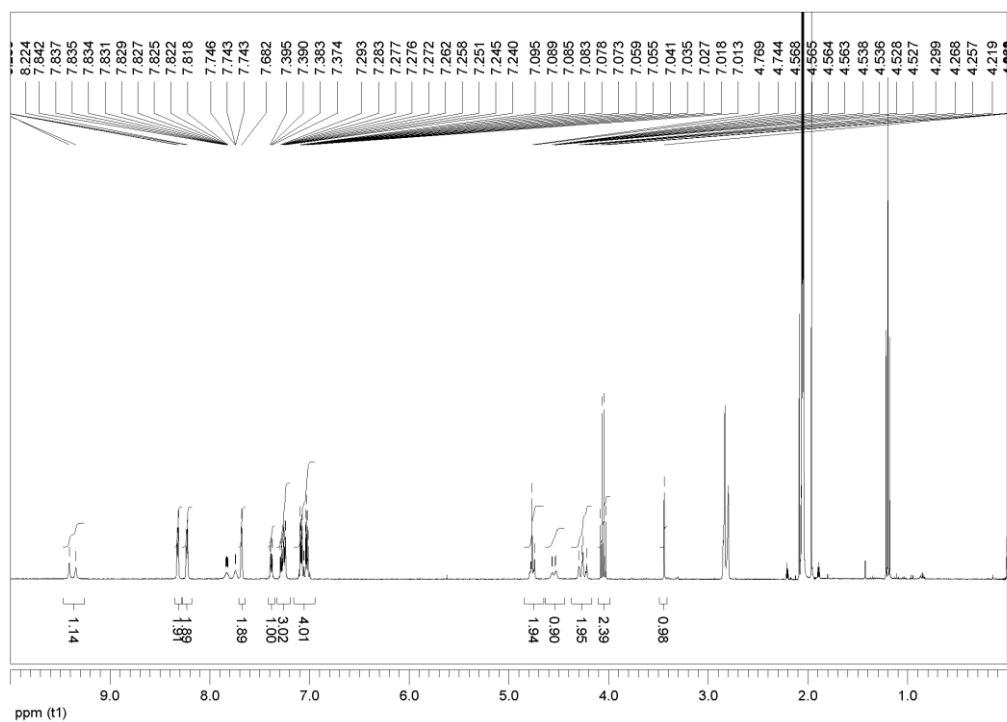


in $(\text{CD}_3)_2\text{CO}$





in (CD₃)₂CO



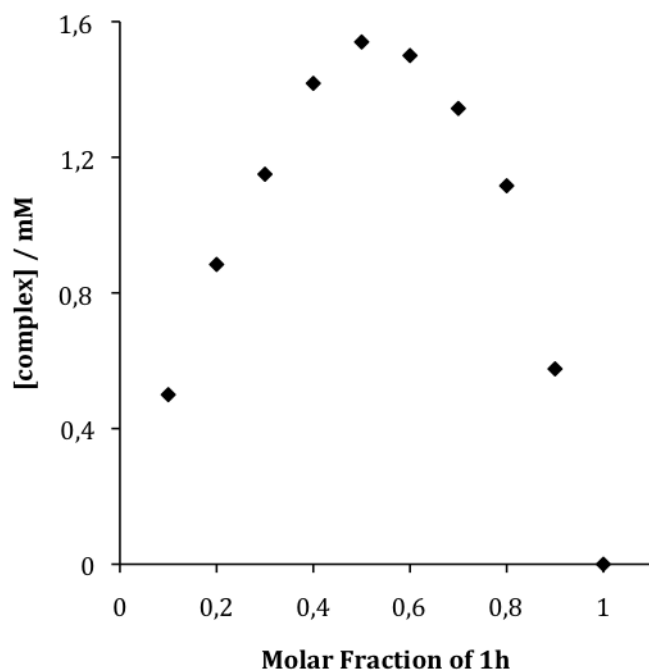
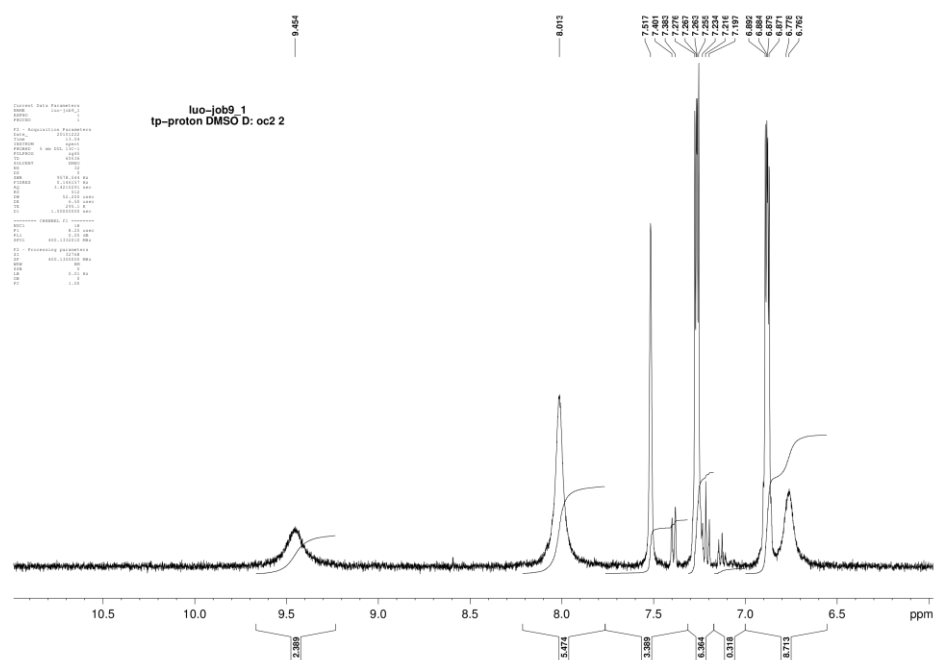
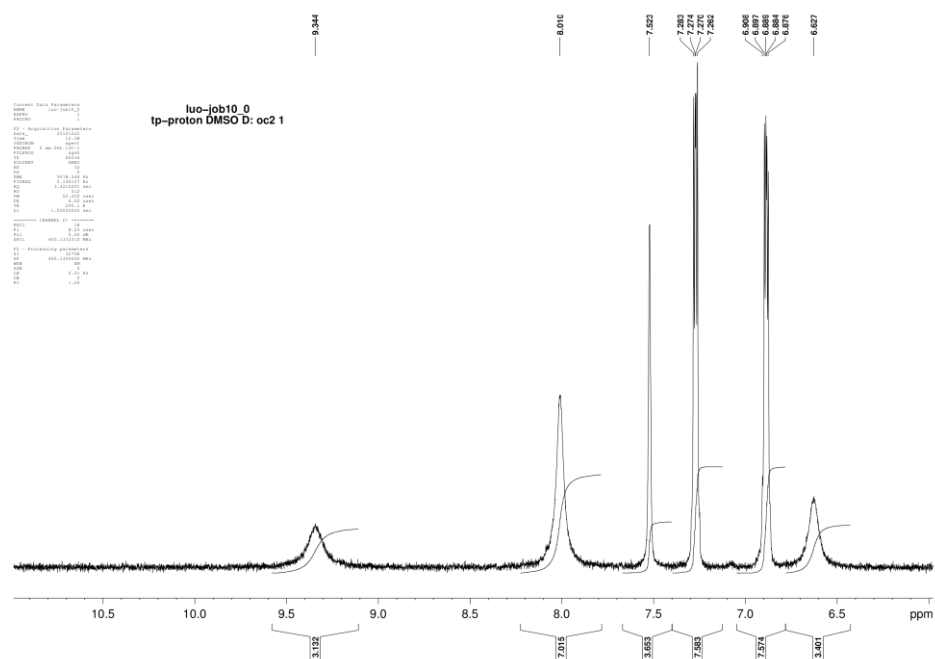
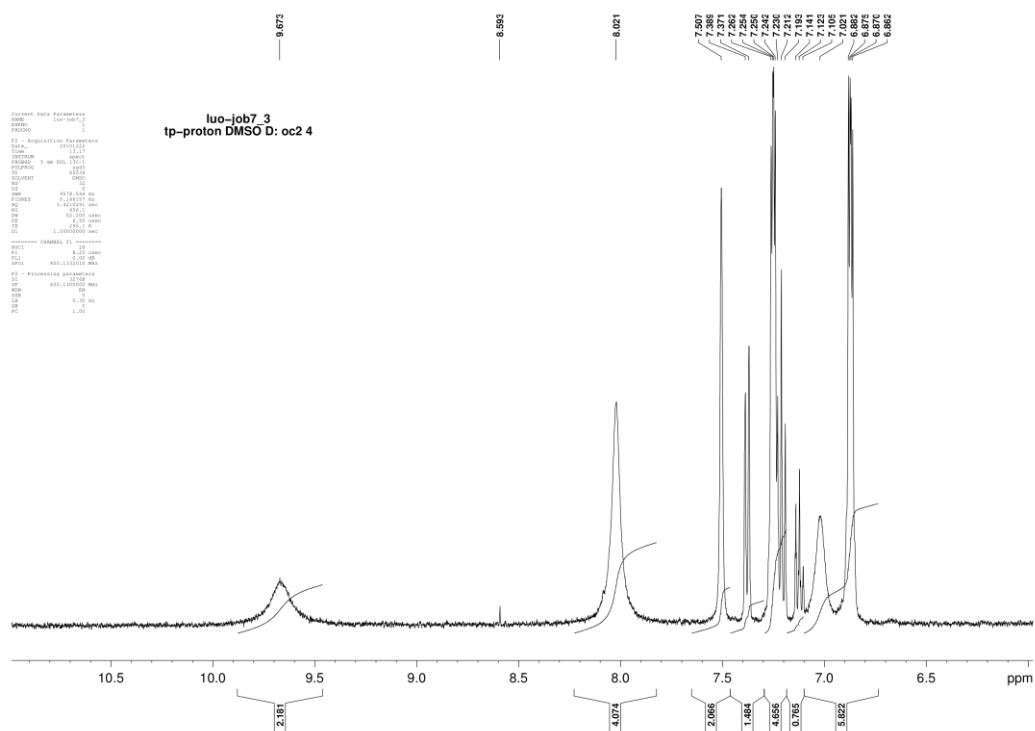
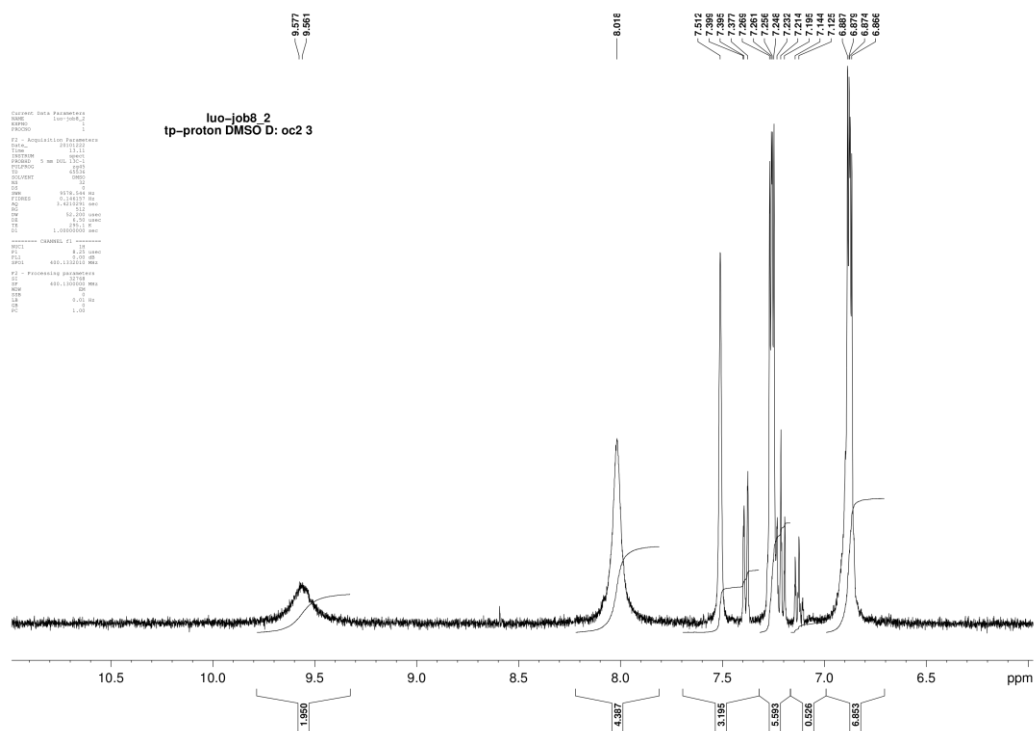
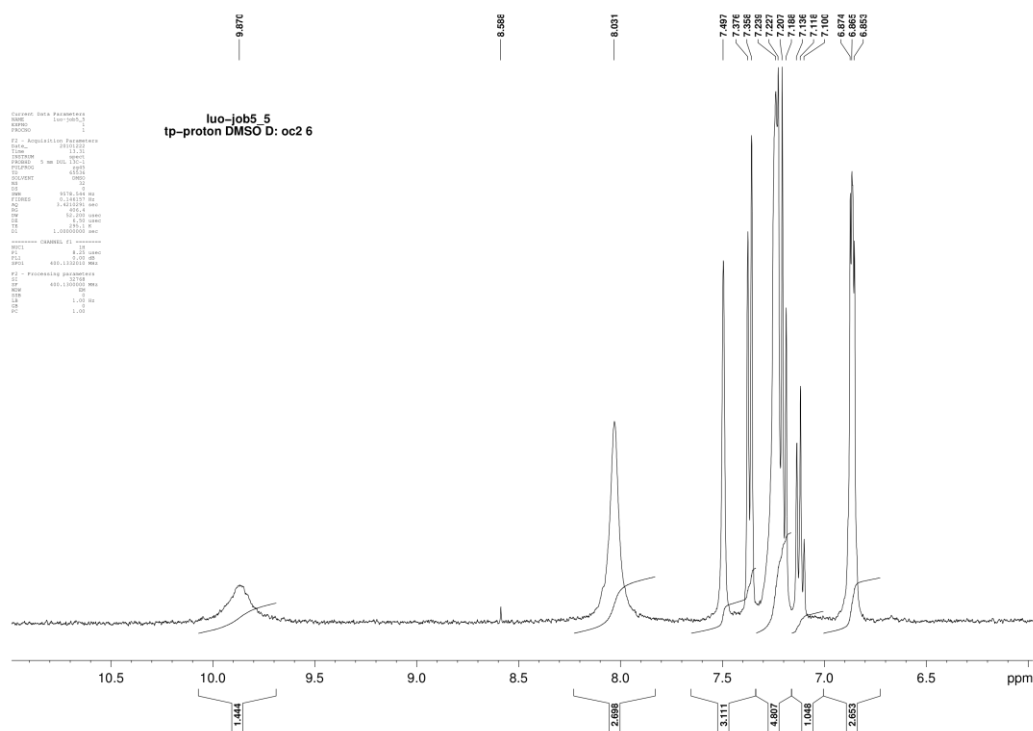
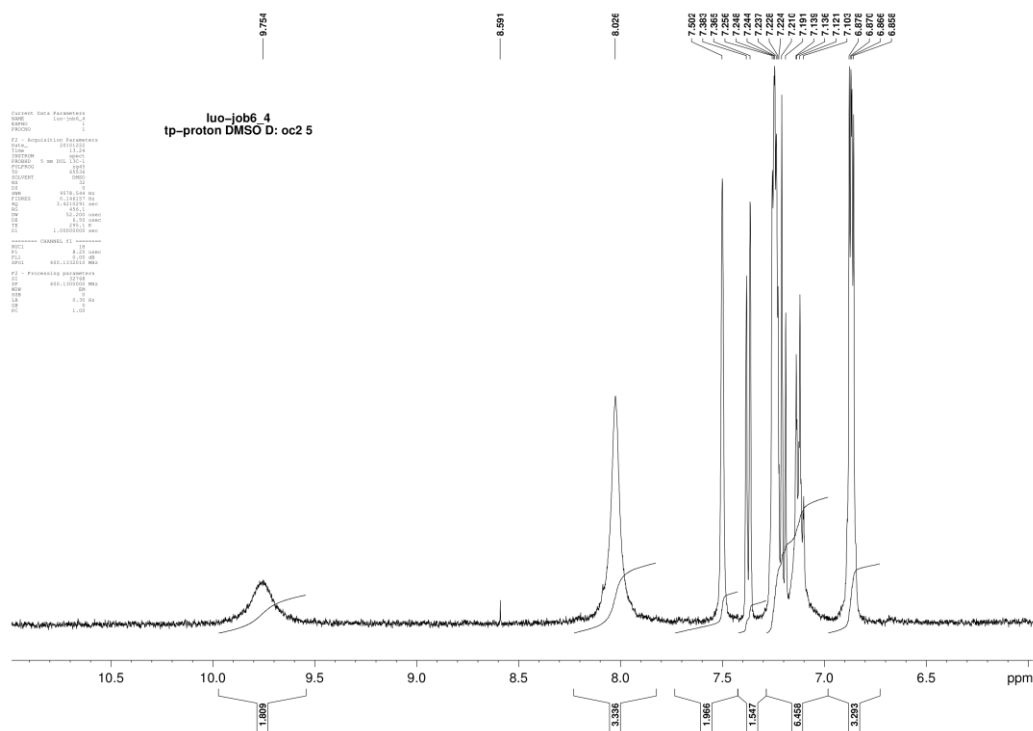


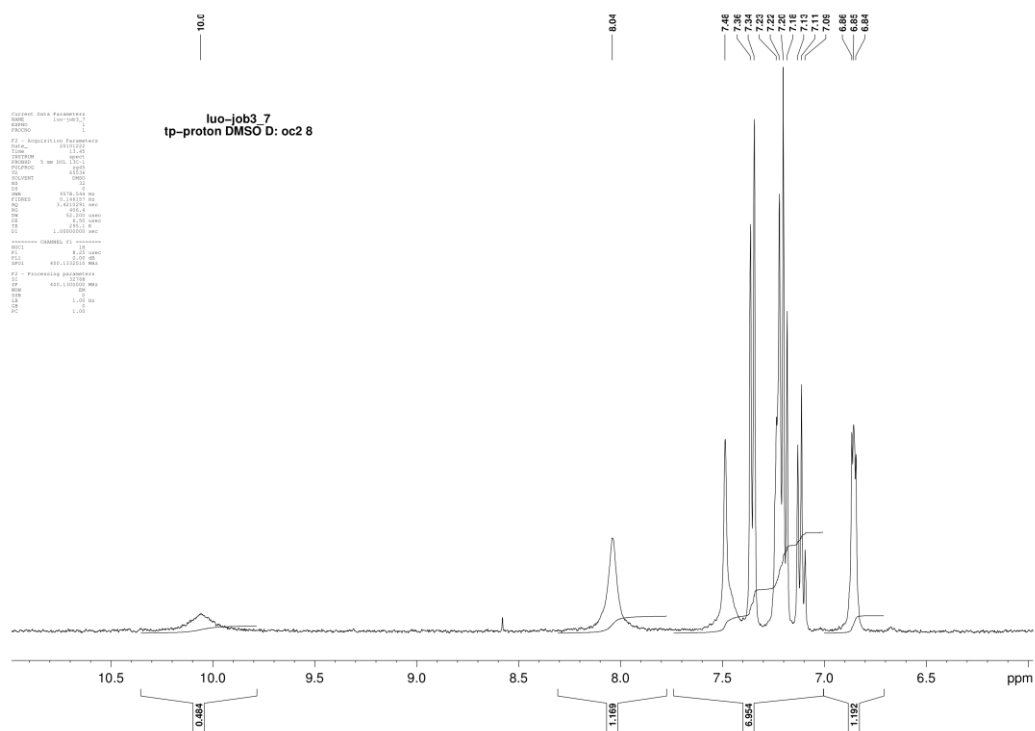
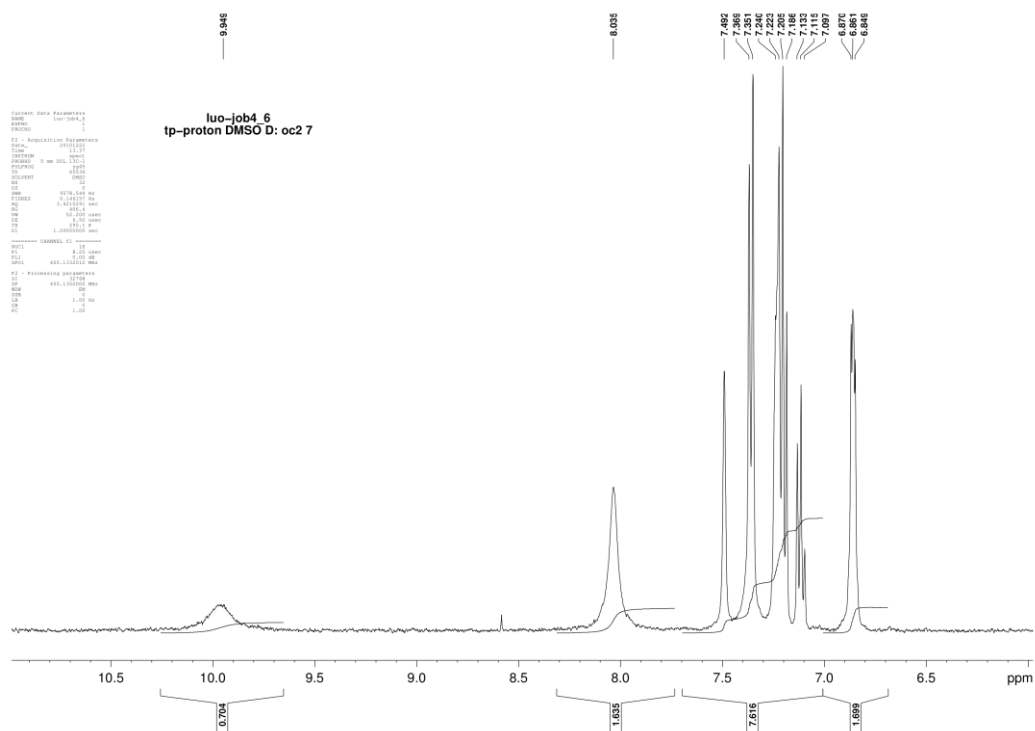
Figure S1: Job plot of **1h** with tetrabutylammonium (S)-mandelate (**SMD**) in $(\text{CD}_3)_2\text{SO}$, 400 MHz; determined from the ^1H NMR spectroscopic shift of the ar-NH proton at different molar fractions of **1h** (see following ^1H NMR spectra; overall concentration $[\mathbf{1h}] + [\mathbf{SMD}] = 5.0 \text{ mM}$).

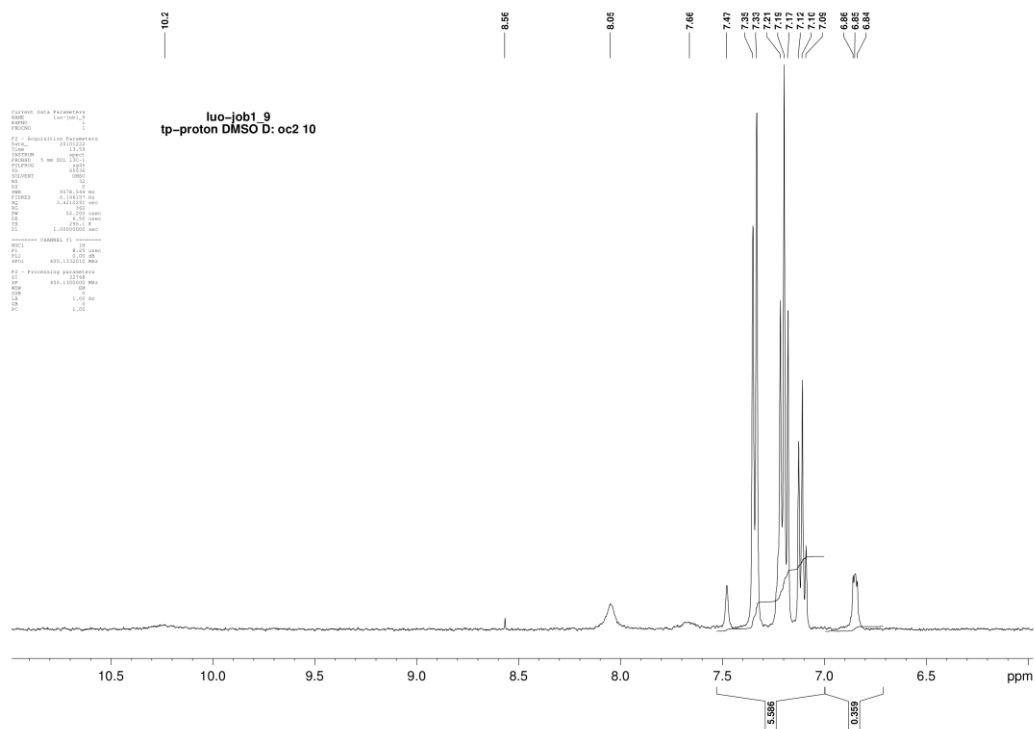
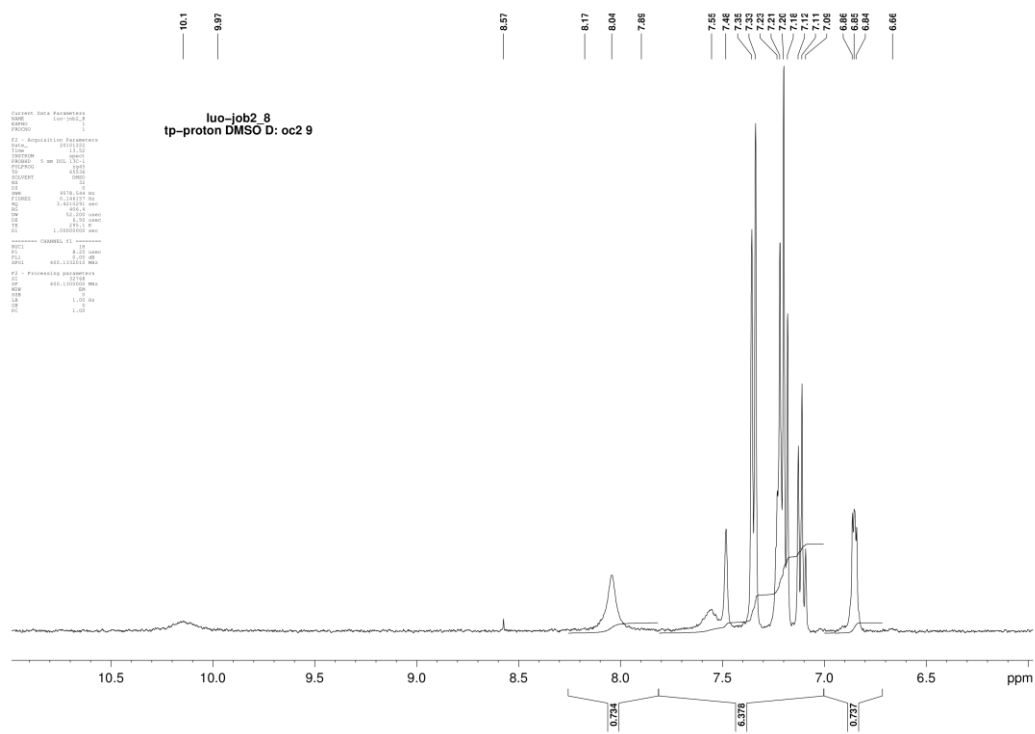
¹H NMR spectra of 1h with SMD at different molar ratio (1h:SMD from 10:0 to 1:9)











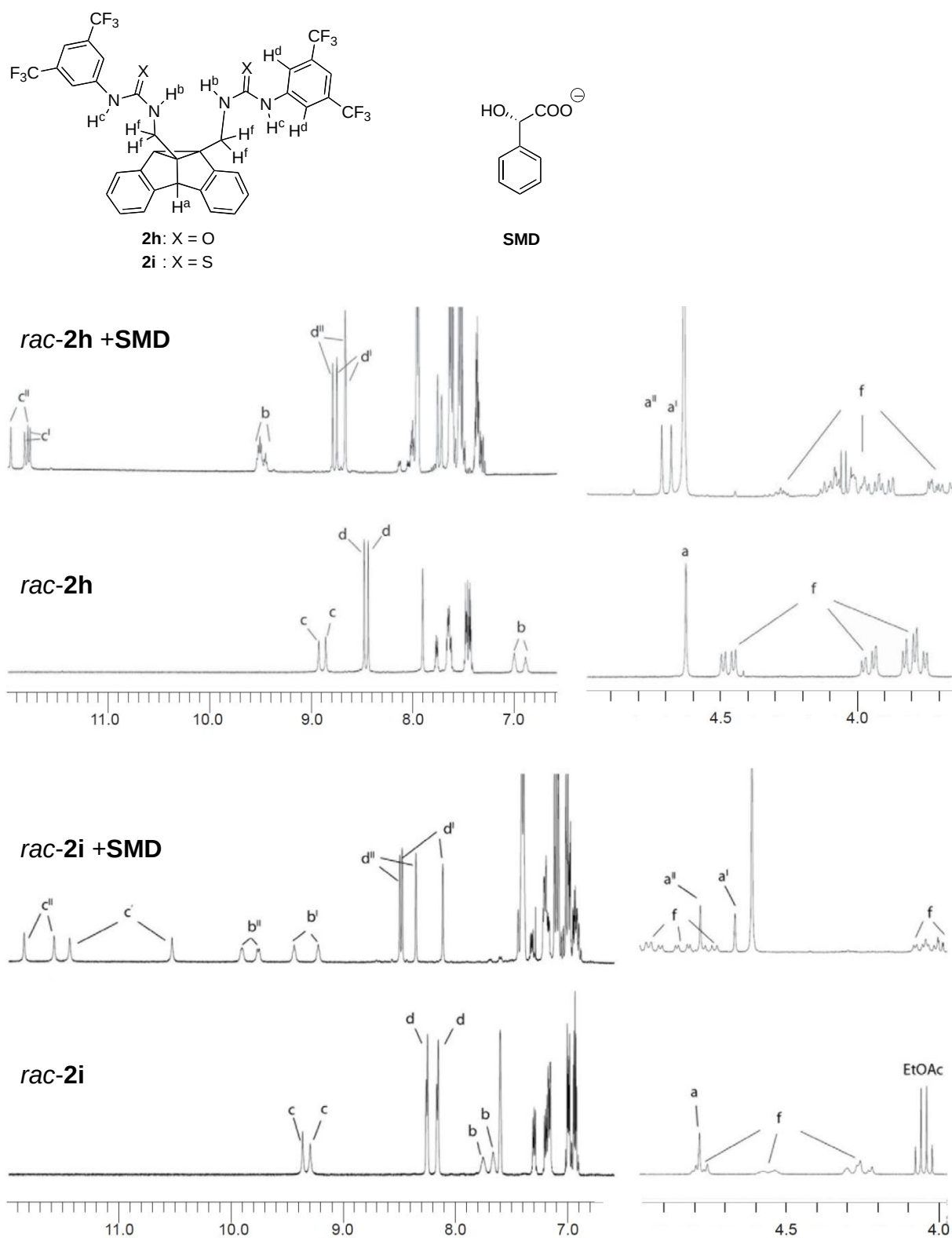


Figure S2: Tetrabutylammonium (S)-mandelate (**SMD**) as chiral shift reagent for the dibenzosemibullvalene derivatives **2h** and **2i**, in (CD₃)₂CO, 400 MHz.