

Supplementary Materials

Unexpected Seven-Membered Ring Formation for Muraymycin-Type Nucleoside-Peptide Antibiotics

Kristin Leyerer¹, Stefan Koppermann¹ and Christian Ducho^{1,*}

¹ Saarland University, Department of Pharmacy, Pharmaceutical and Medicinal Chemistry,
Campus C2 3, 66 123 Saarbrücken, Germany

Corresponding author *E-mail: christian.ducho@uni-saarland.de

Table of Contents

Measured data from MraY assays.....	S2
¹ H, ¹³ C and ¹⁹ F NMR spectra of synthesized compounds.....	S3
IR spectra of synthesized compounds.....	S8

Measured data from MraY assays

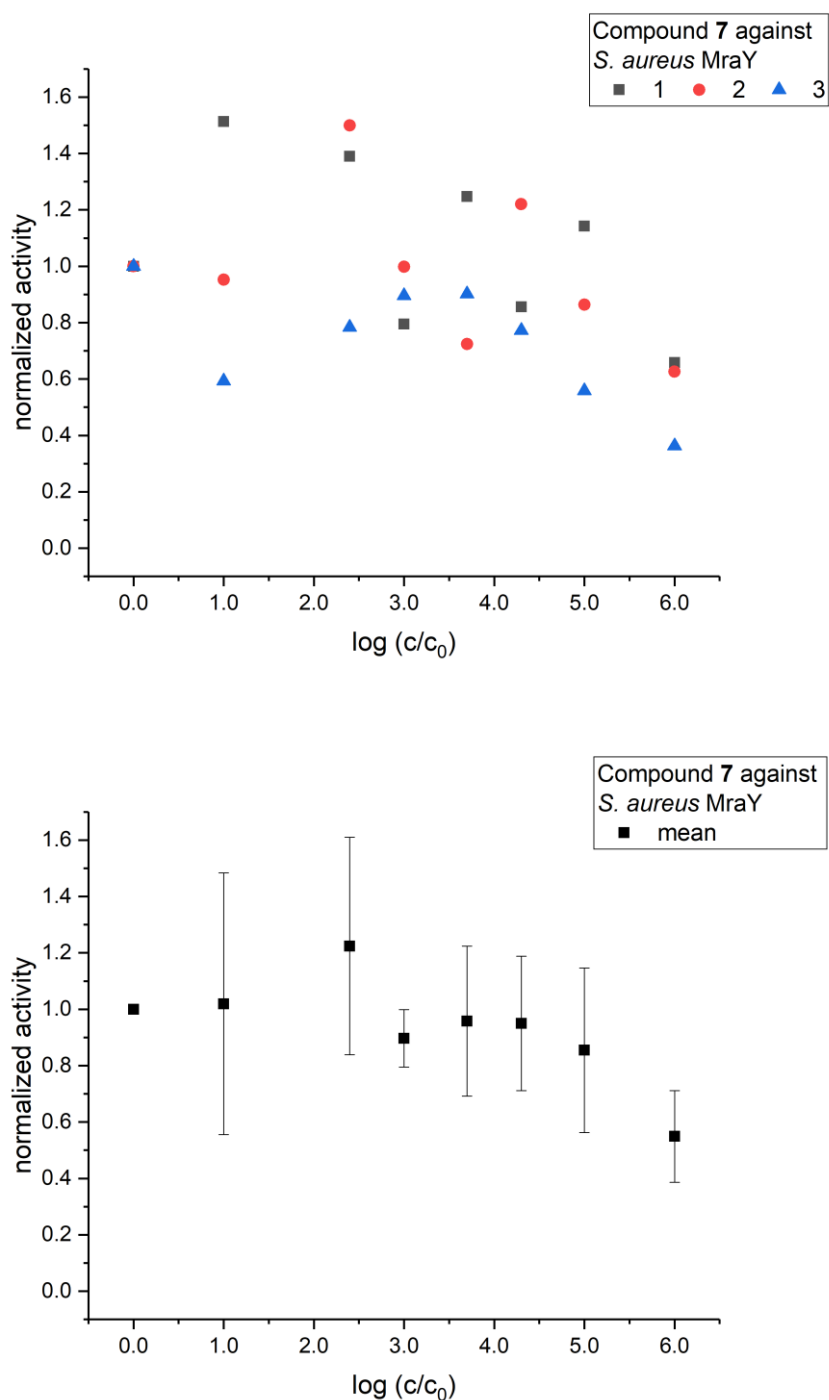
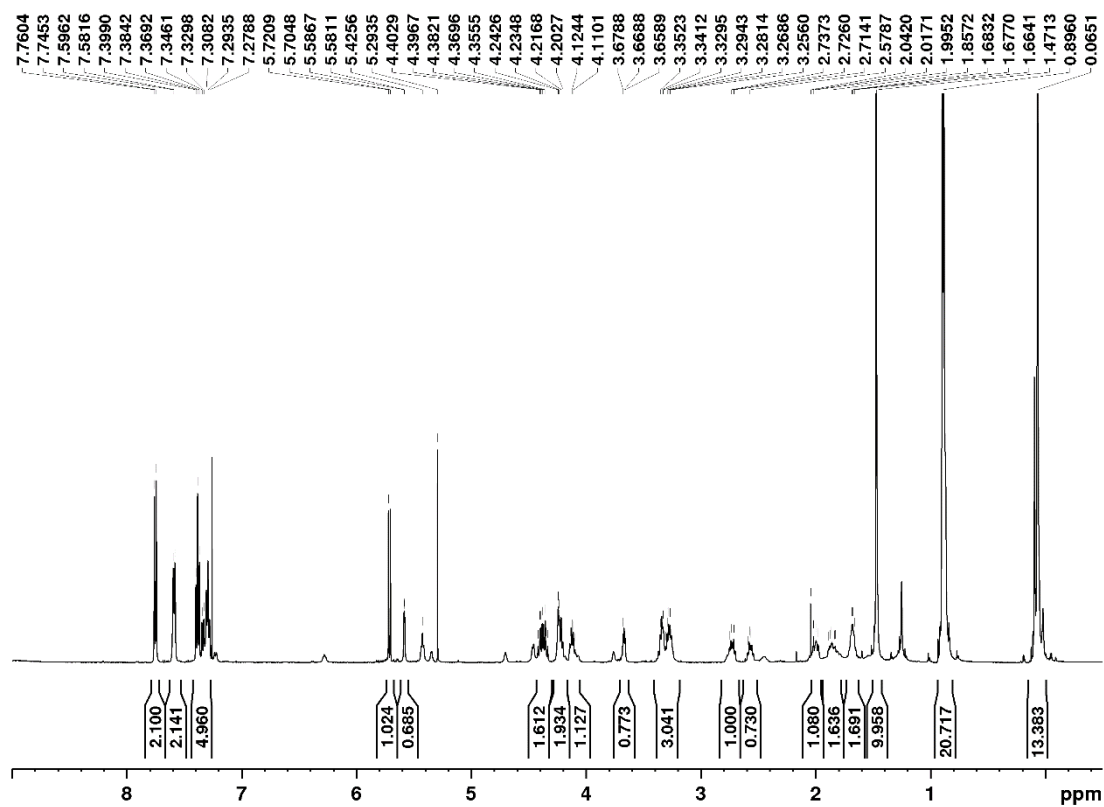
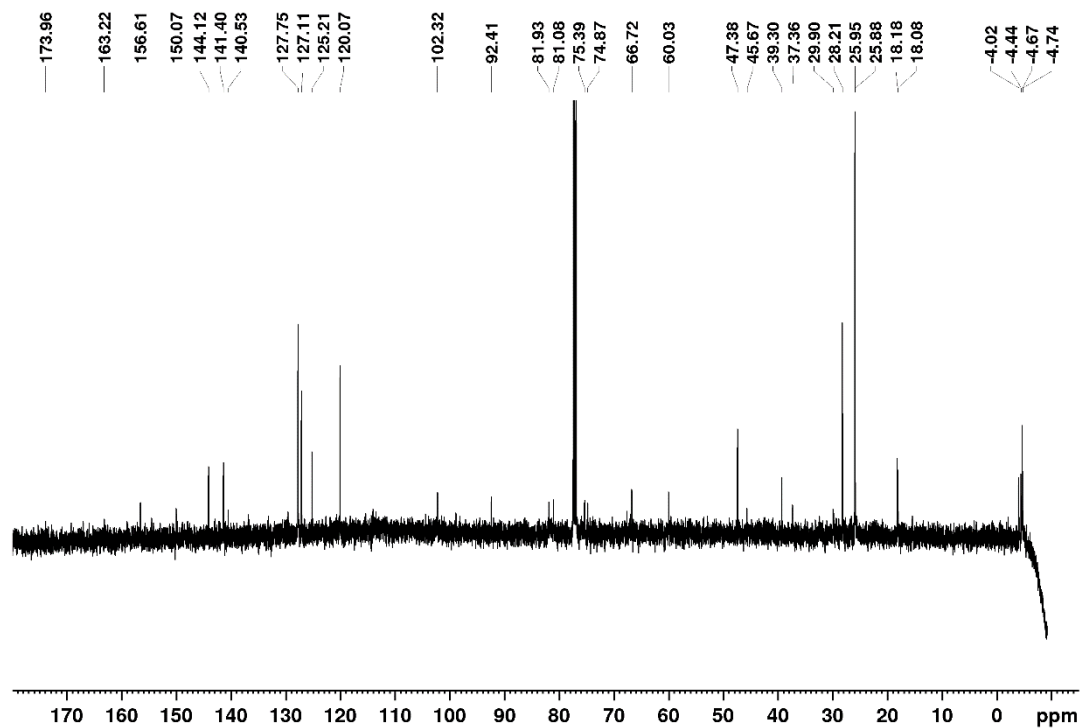


Figure S1. MraY assay with MraY from *S. aureus* (crude membranes) and compound **7** as potential inhibitor (top: original data with data points shown as individual series of measurements; bottom: values displayed as mean values and standard deviations).

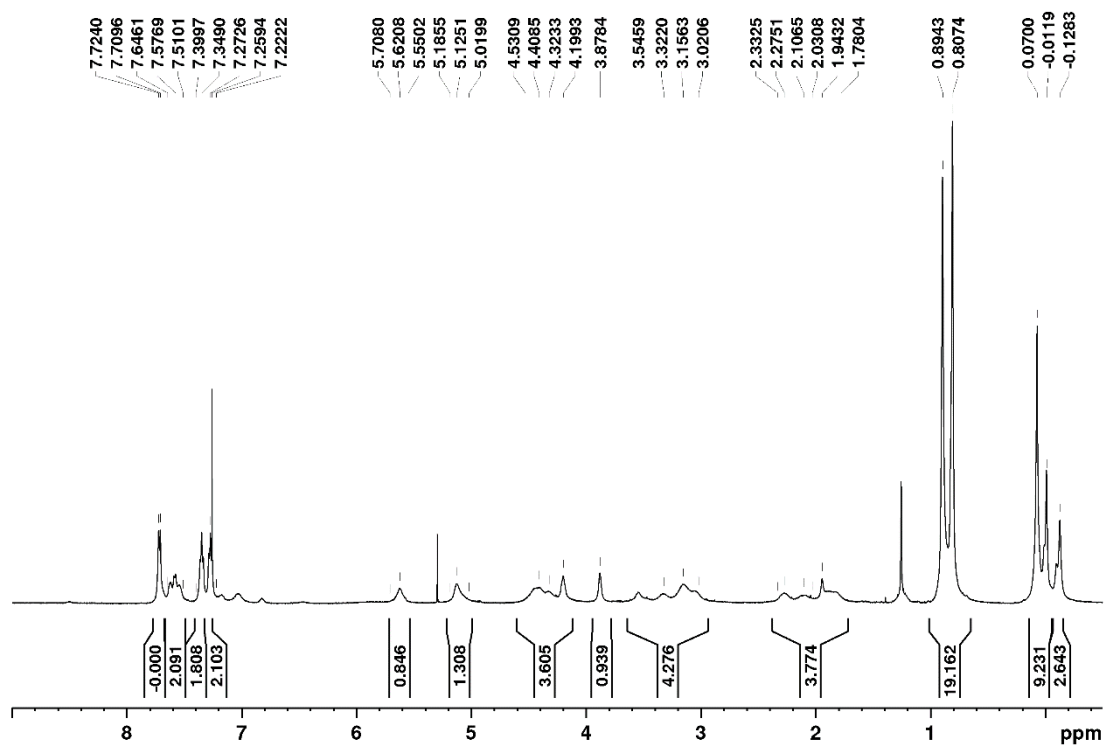
^1H , ^{13}C and ^{19}F NMR spectra of synthesized compounds



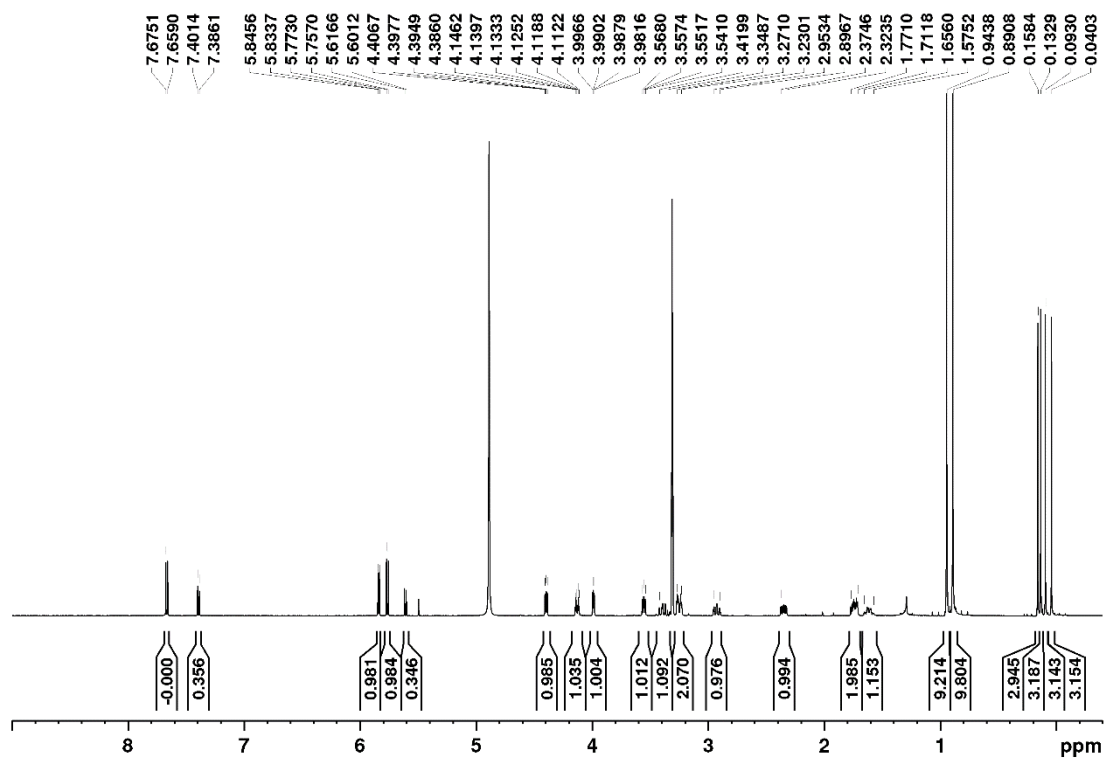
^1H NMR spectrum of **4** (500 MHz, CDCl_3)



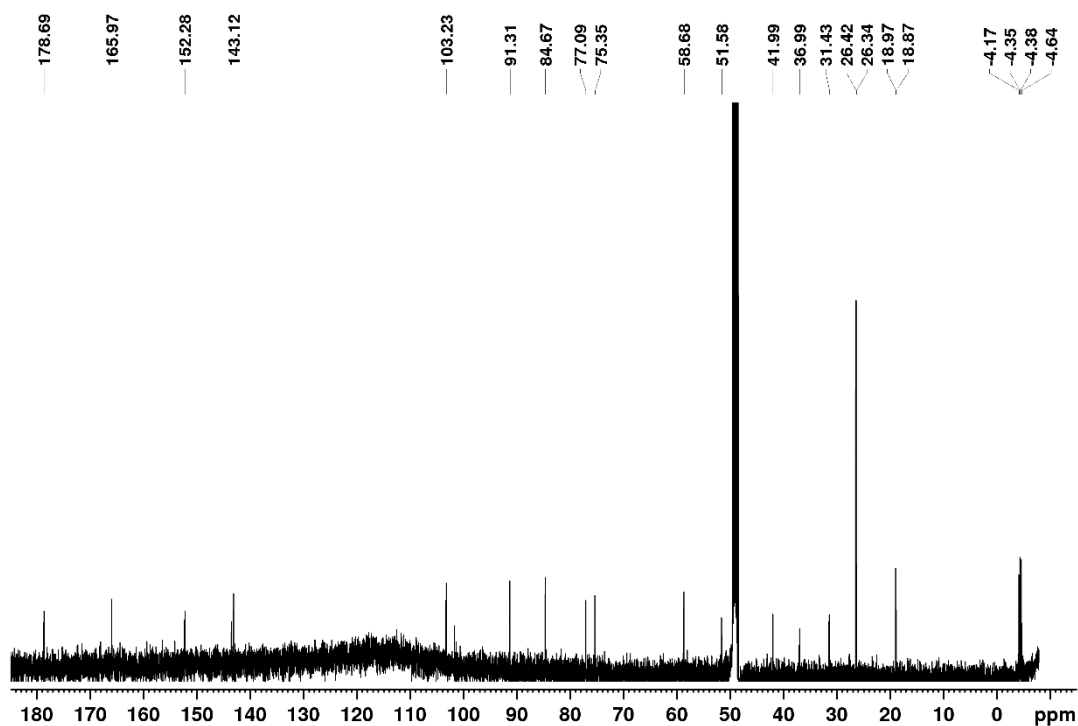
^{13}C NMR spectrum of **4** (126 MHz, CDCl_3)



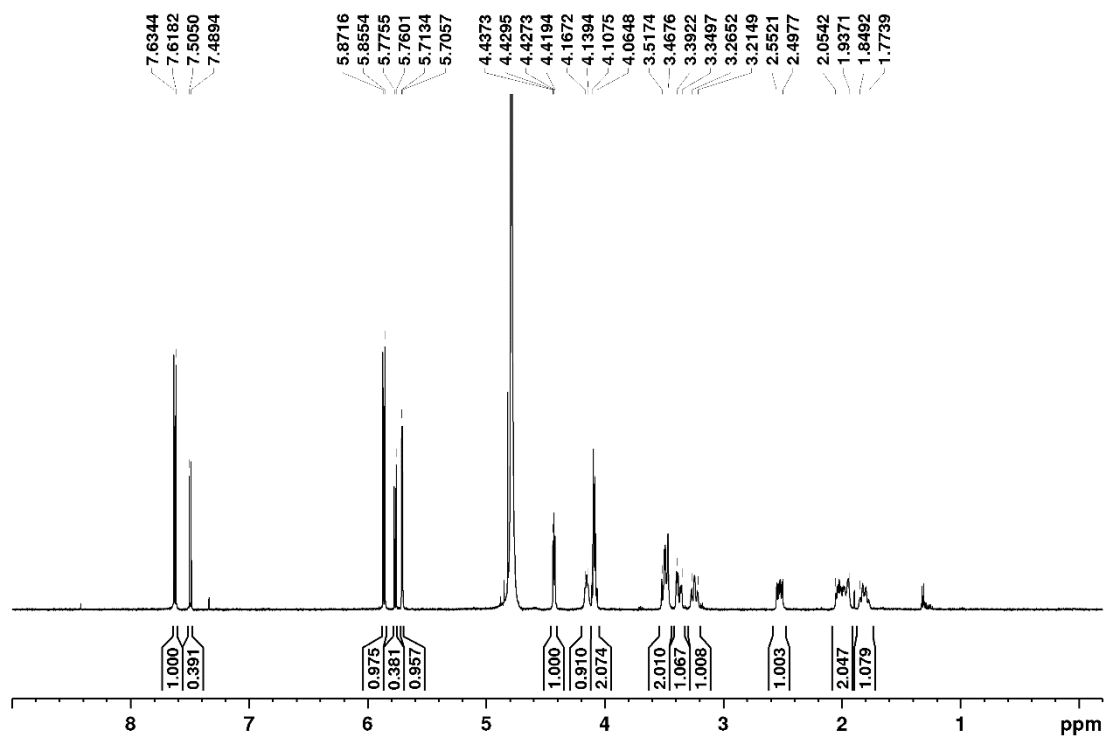
^1H NMR spectrum of **5** (500 MHz, CDCl_3)



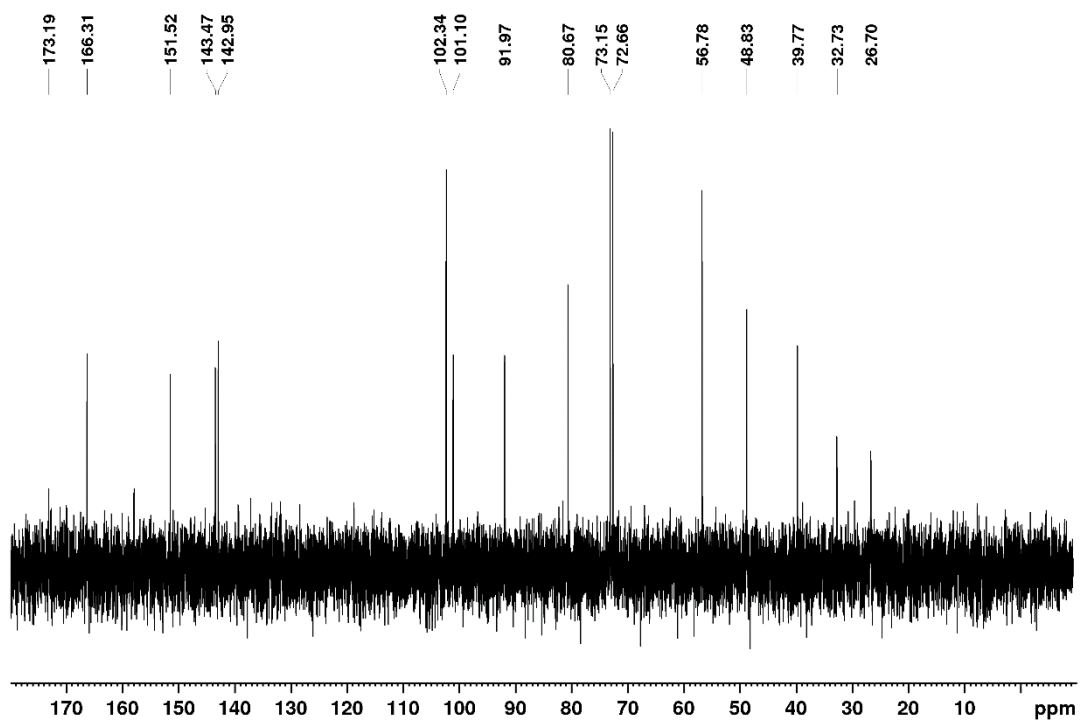
^1H NMR spectrum of **6** (500 MHz, CD_3OD)



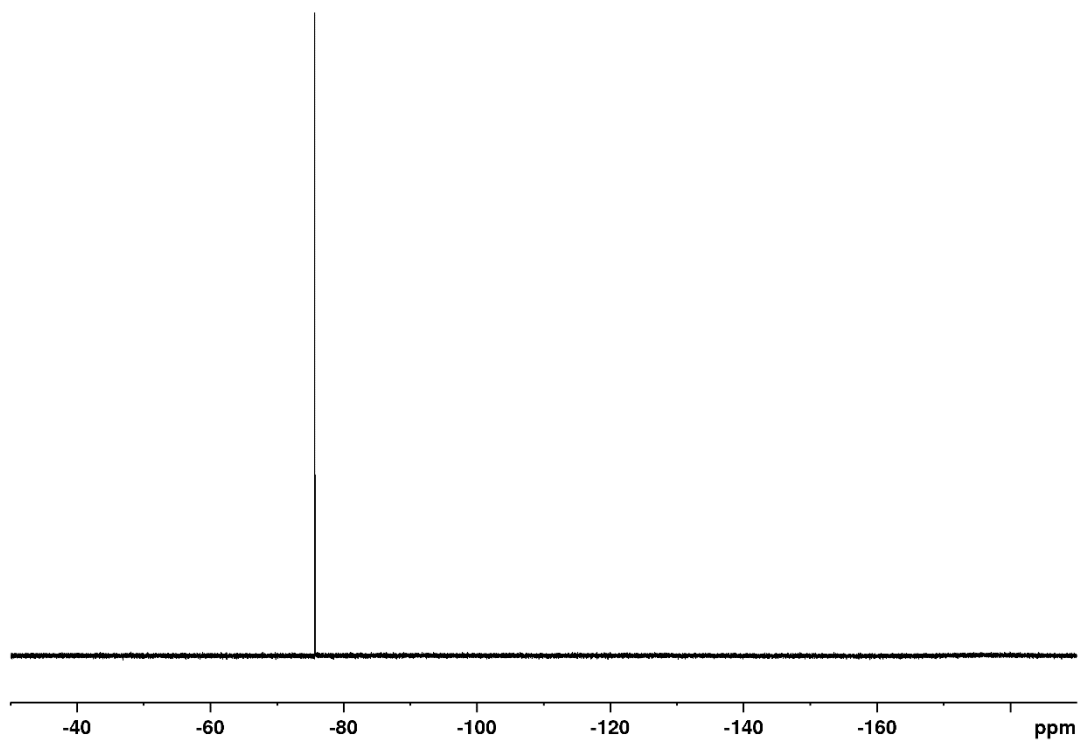
^{13}C NMR spectrum of **6** (126 MHz, CD_3OD)



^1H NMR spectrum of **7** (500 MHz, D_2O)

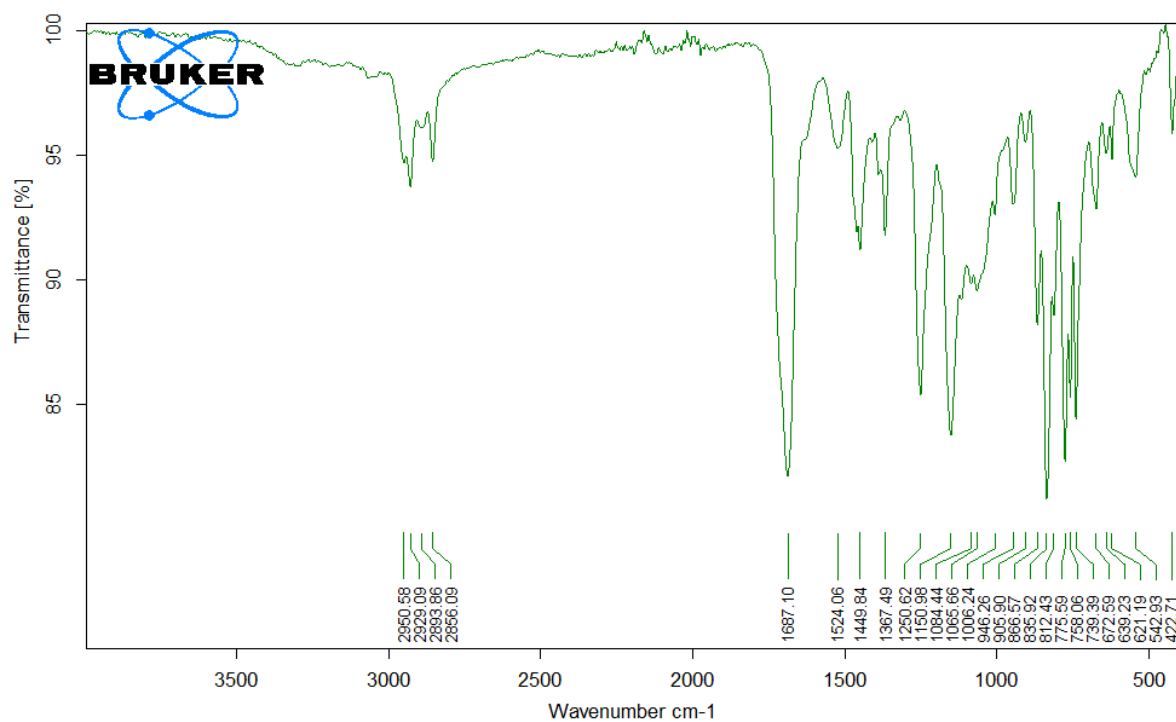


^{13}C NMR spectrum of **7** (126 MHz, D_2O)

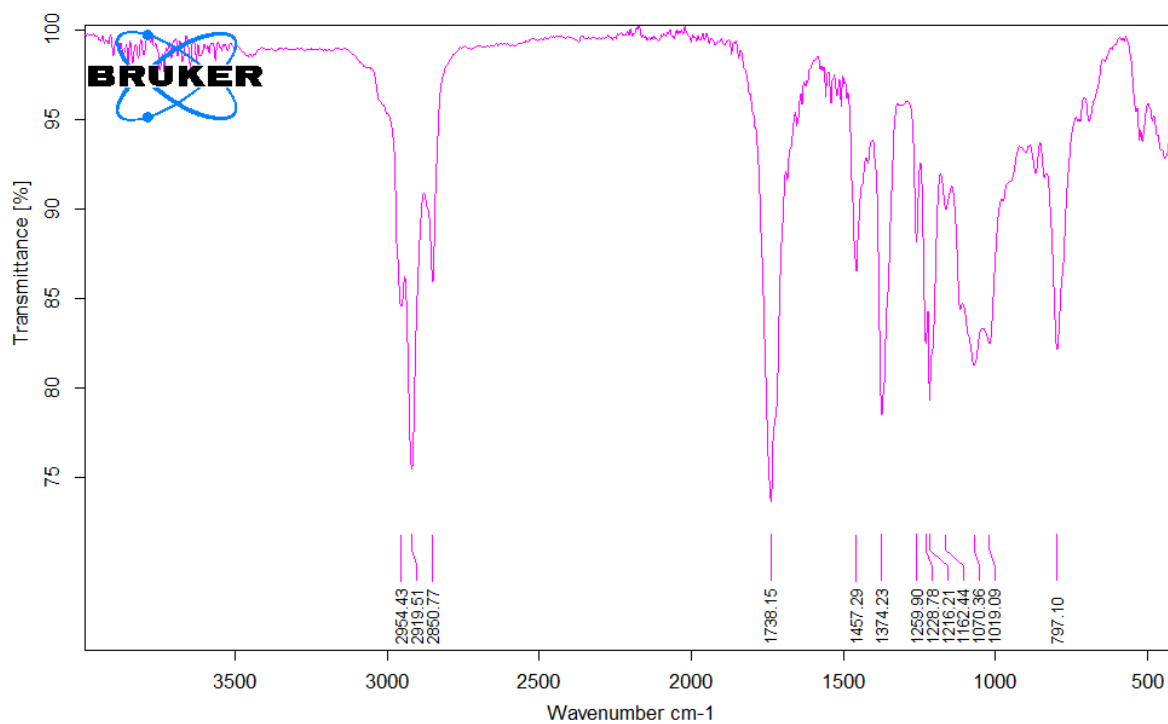


^{19}F NMR spectrum of **7** (376 MHz, D_2O)

IR spectra of synthesized compounds



IR spectrum of 4



IR spectrum of 5