Supporting Information

for

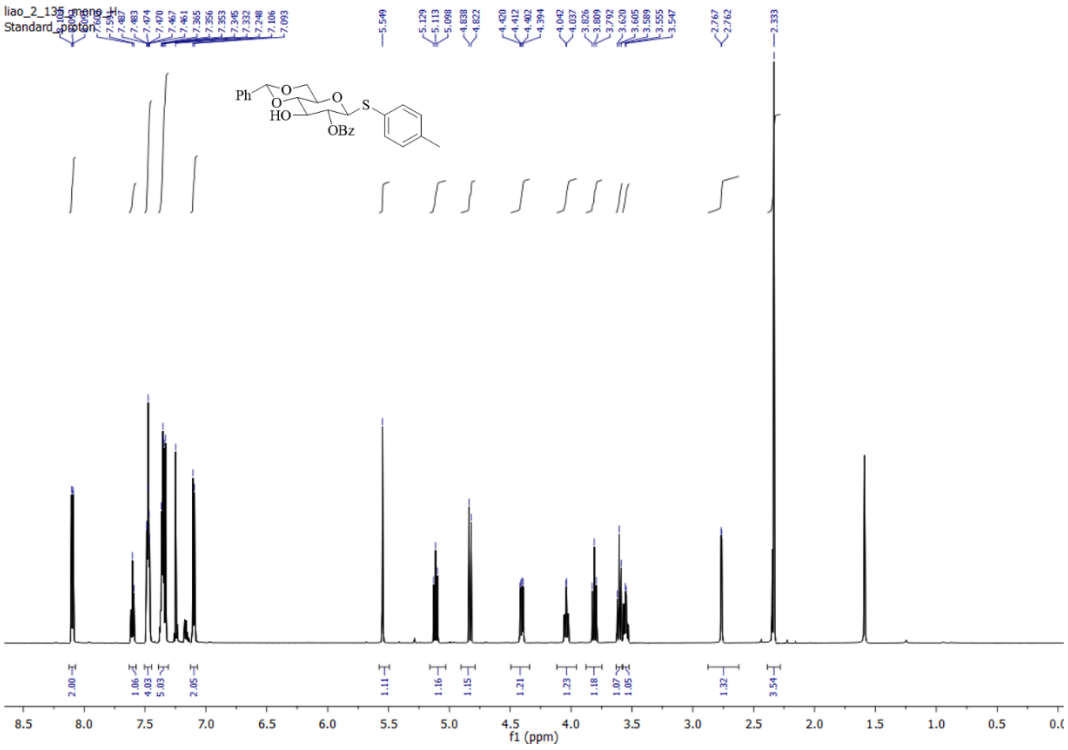
A Convergent Synthesis of 6-O-Branched β-Glucan Oligosaccharides

Guochao Liao, Srinivas Burgula, Zhifang Zhou, and Zhongwu Guo*

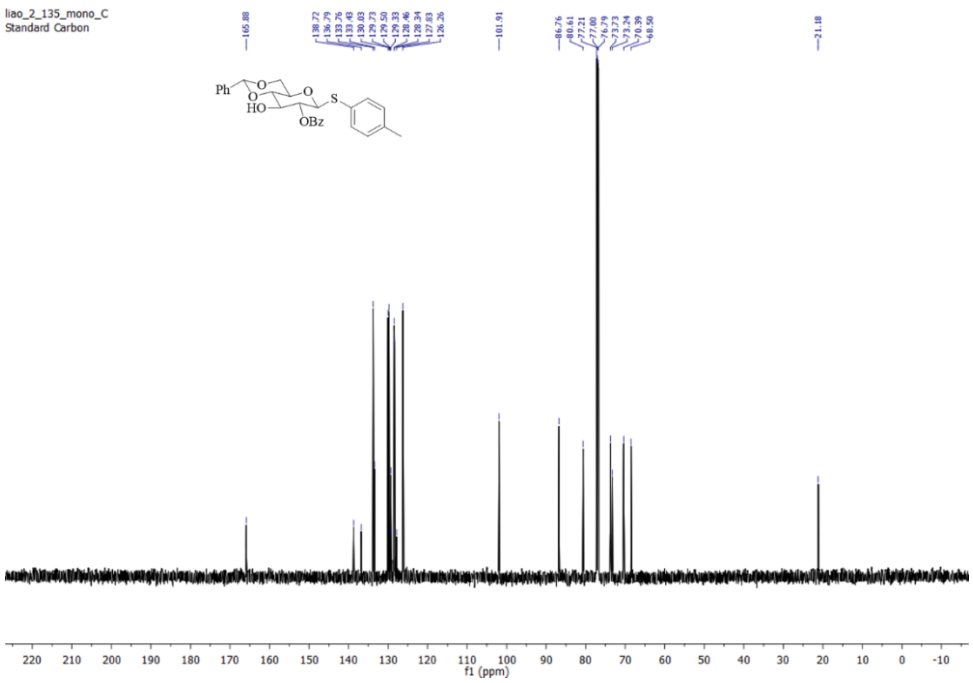
Department of Chemistry, Wayne State University, 5101 Cass Avenue, Detroit, MI, 48202, USA

*Corresponding author: E-mail: zwguo@chem.wayne.edu

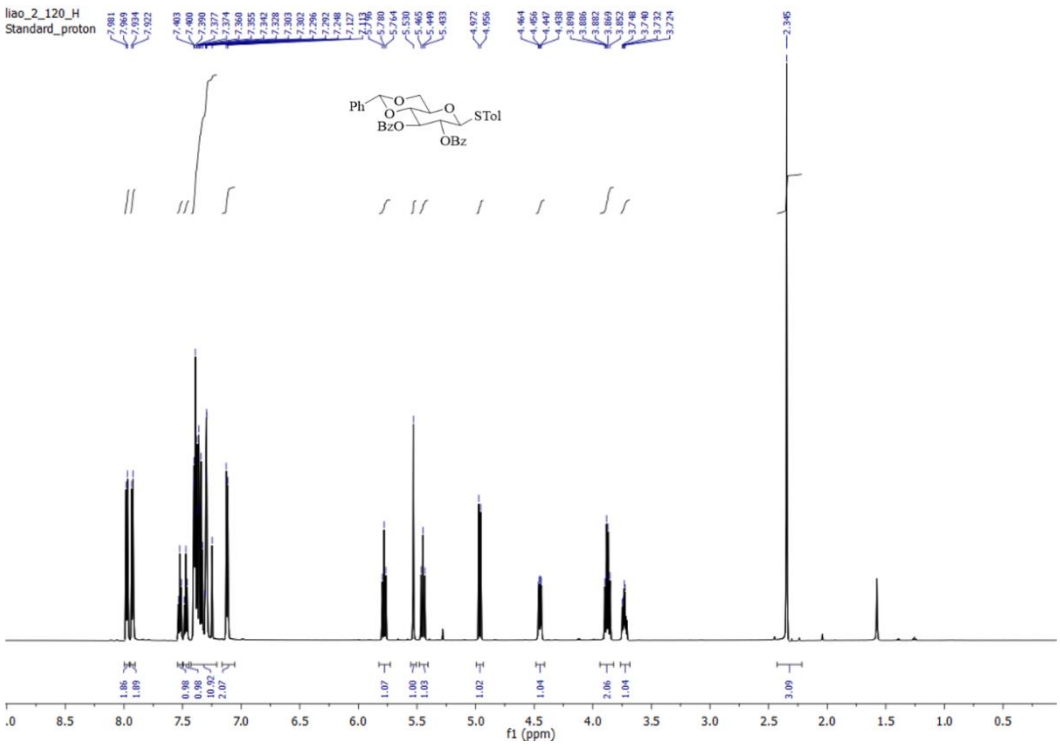
Table of Contents:



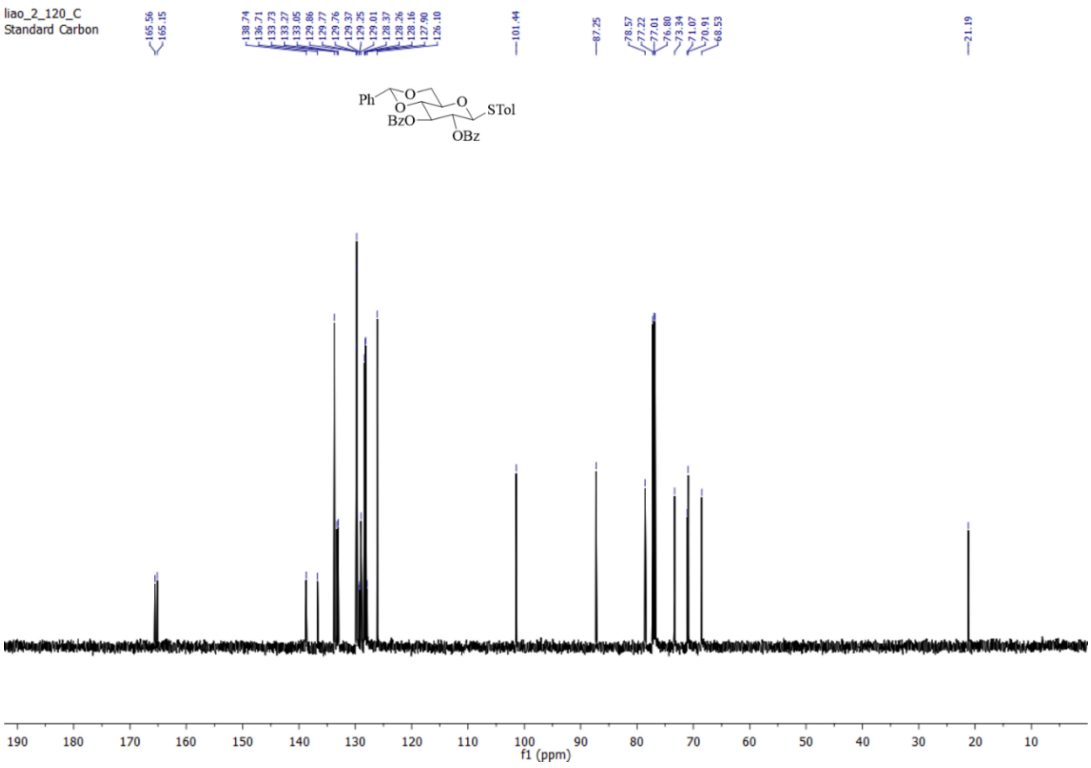
^{1}H NMR Spectrum of compound **10** ($CDCl_3$, 600 MHz)



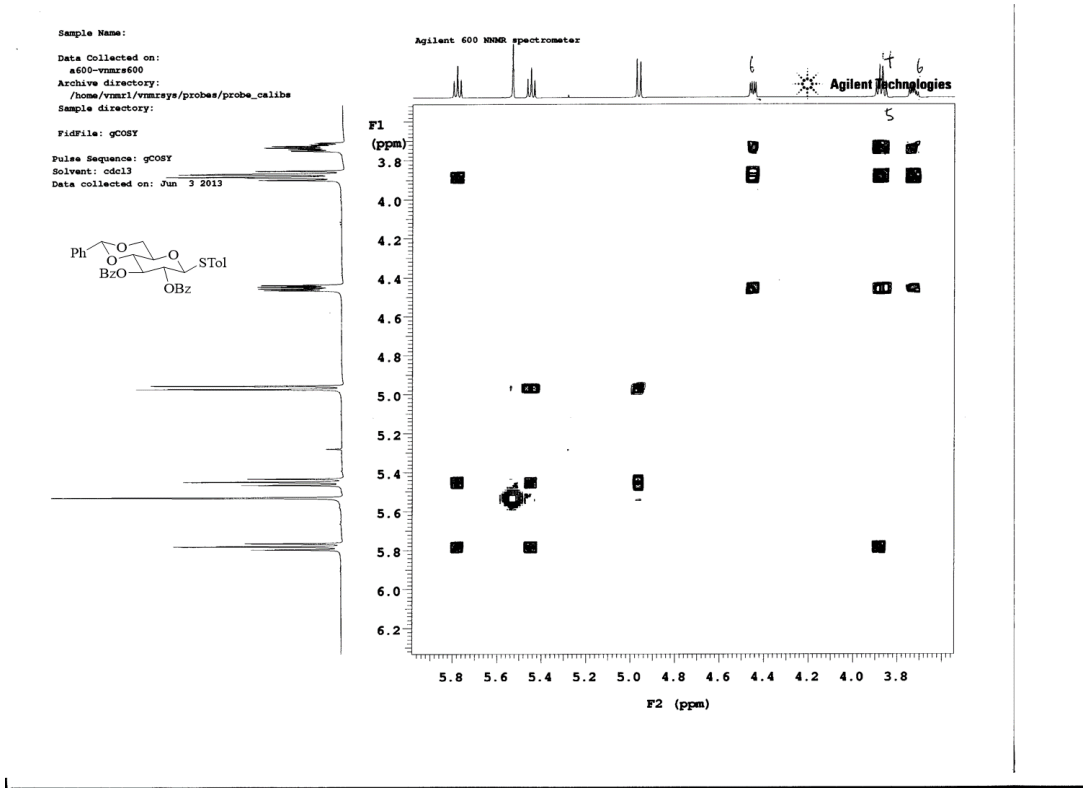
^{13}C NMR Spectrum of compound **10** ($CDCl_3$, 600 MHz)



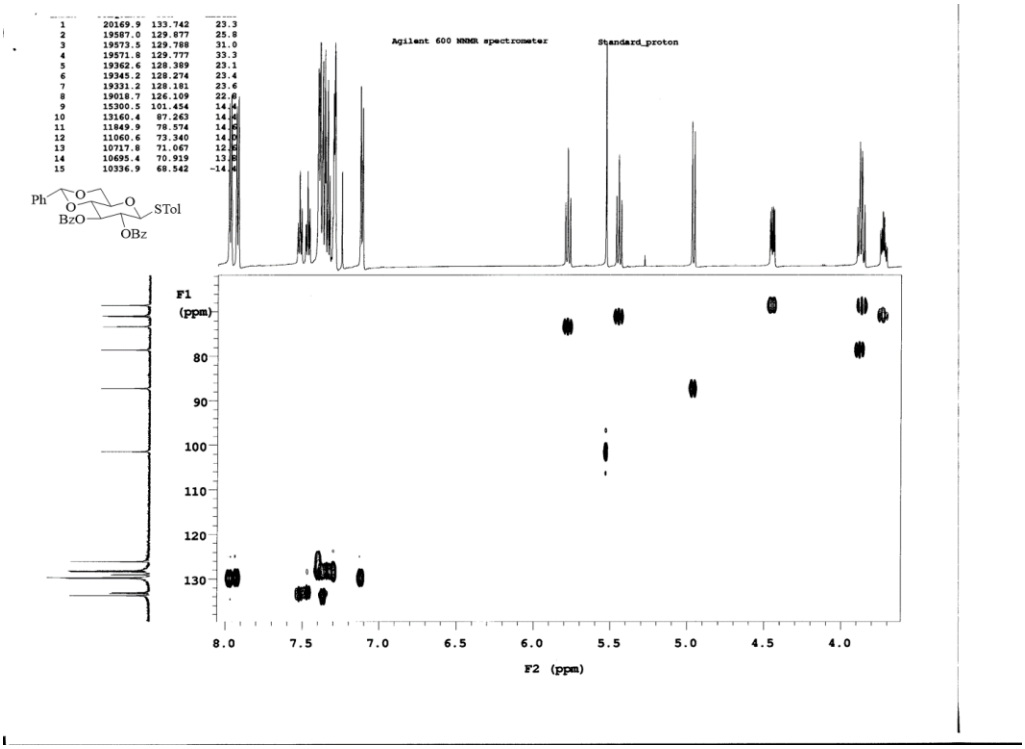
^{1}H NMR Spectrum of compound **8** ($CDCl_3$, 600 MHz)



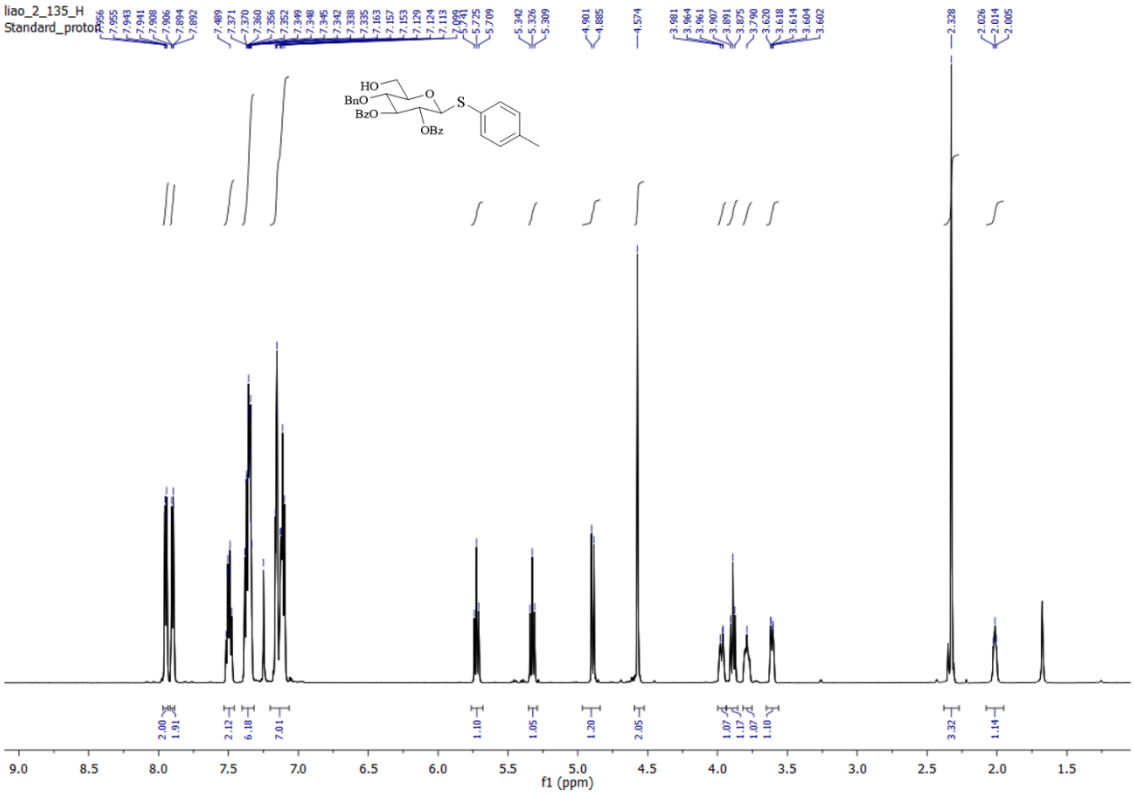
^{13}C NMR Spectrum of compound **8** ($CDCl_3$, 600 MHz)



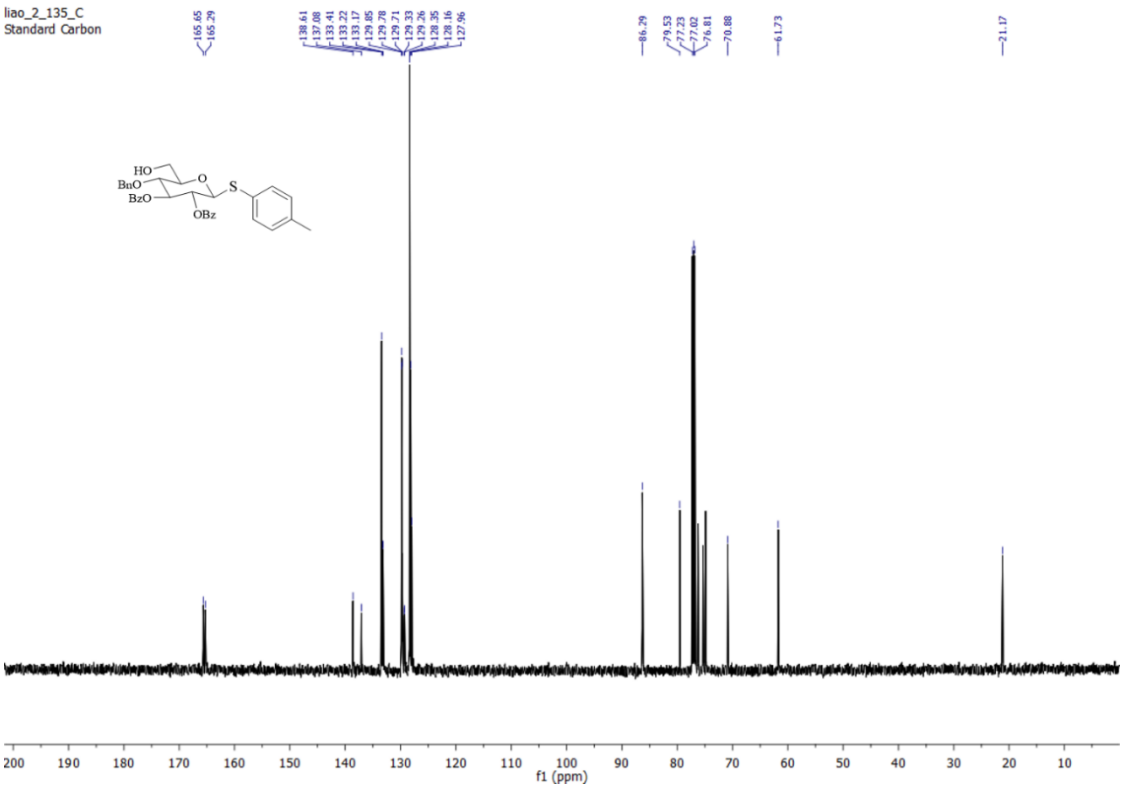
^{1}H-^{1}H COSY Spectrum of compound **8** ($CDCl_3$, 600 MHz)



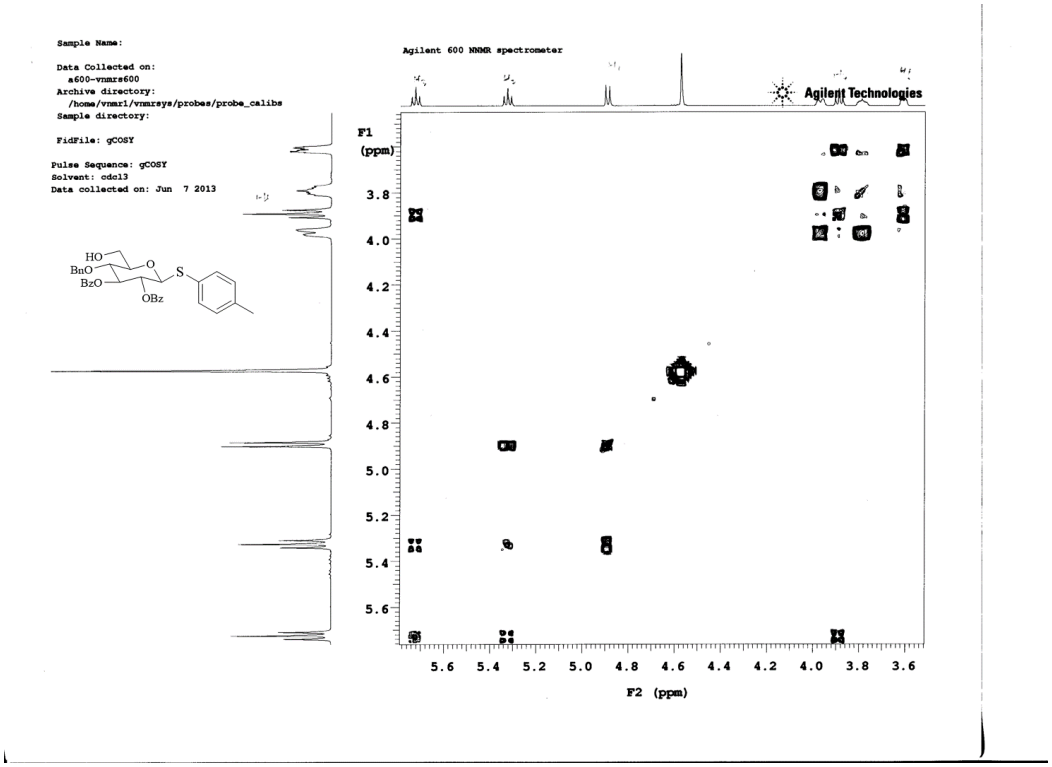
^{1}H-^{13}C HMQC Spectrum of compound **8** ($CDCl_3$, 600 MHz)



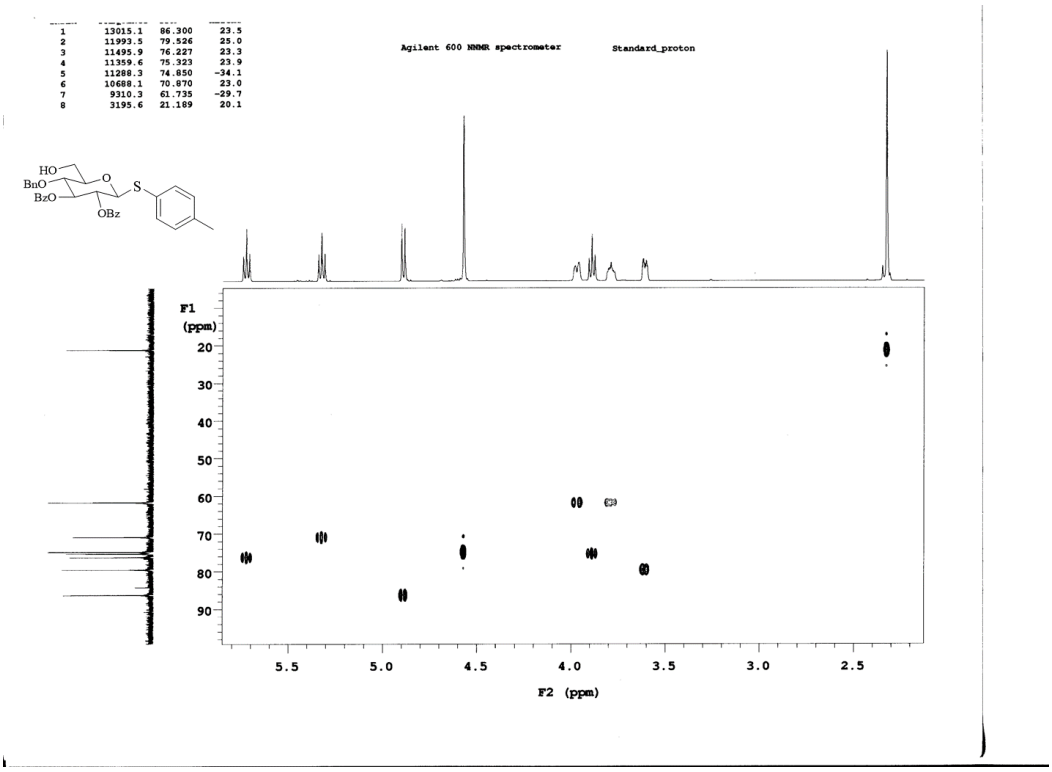
^{1}H NMR Spectrum of compound **9** ($CDCl_3$, 600 MHz)



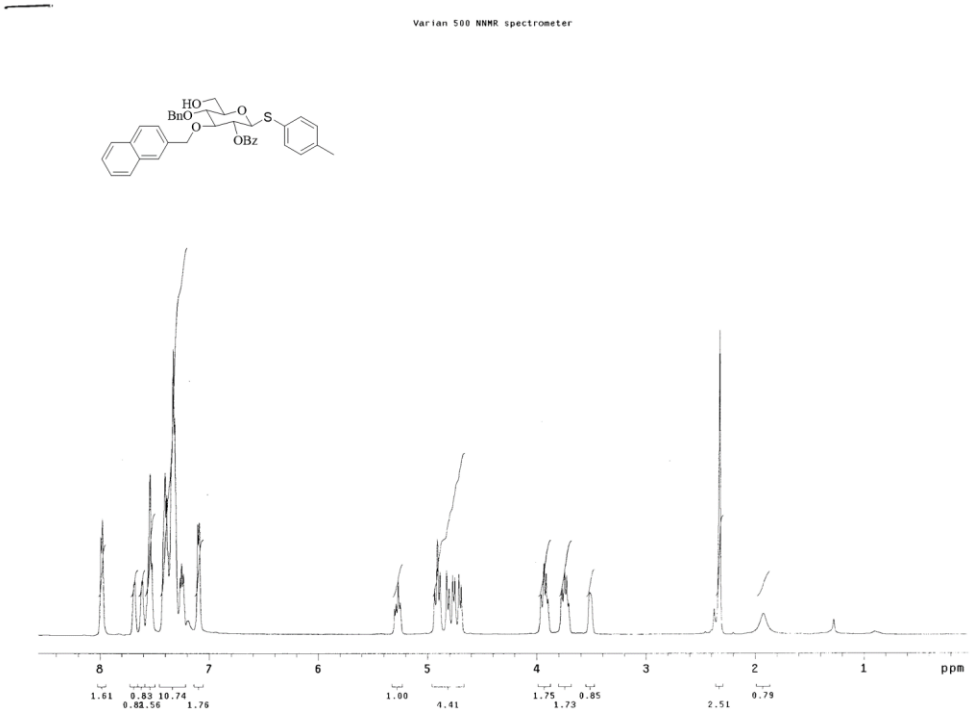
^{13}C NMR Spectrum of compound **9** ($CDCl_3$, 600 MHz)



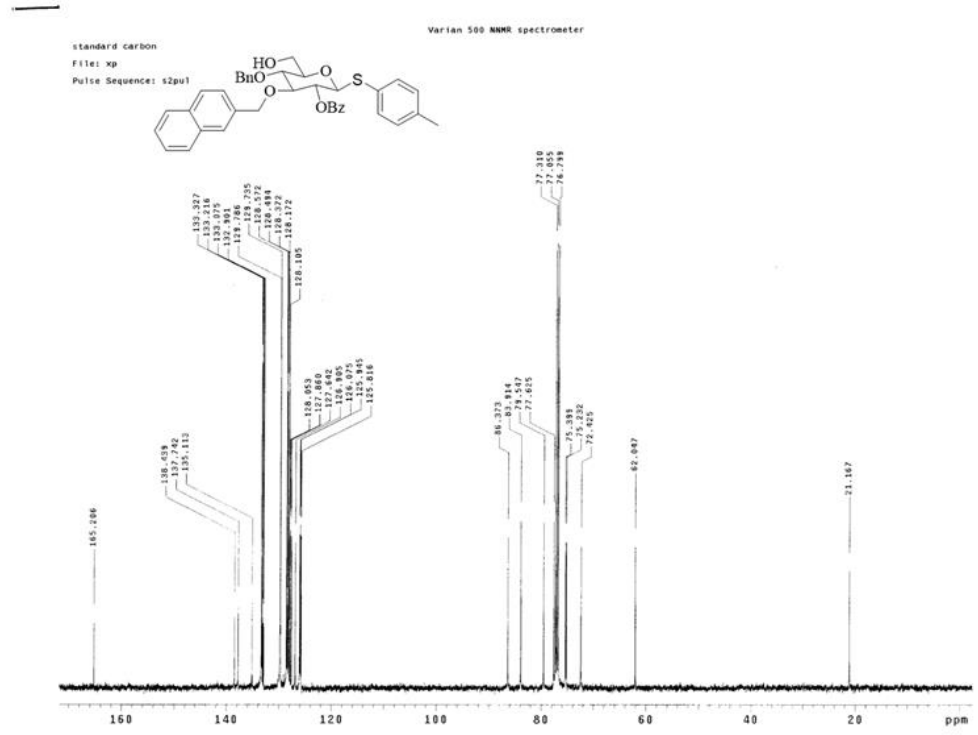
^{1}H-^{1}H COSY Spectrum of compound **9** ($CDCl_3$, 600 MHz)



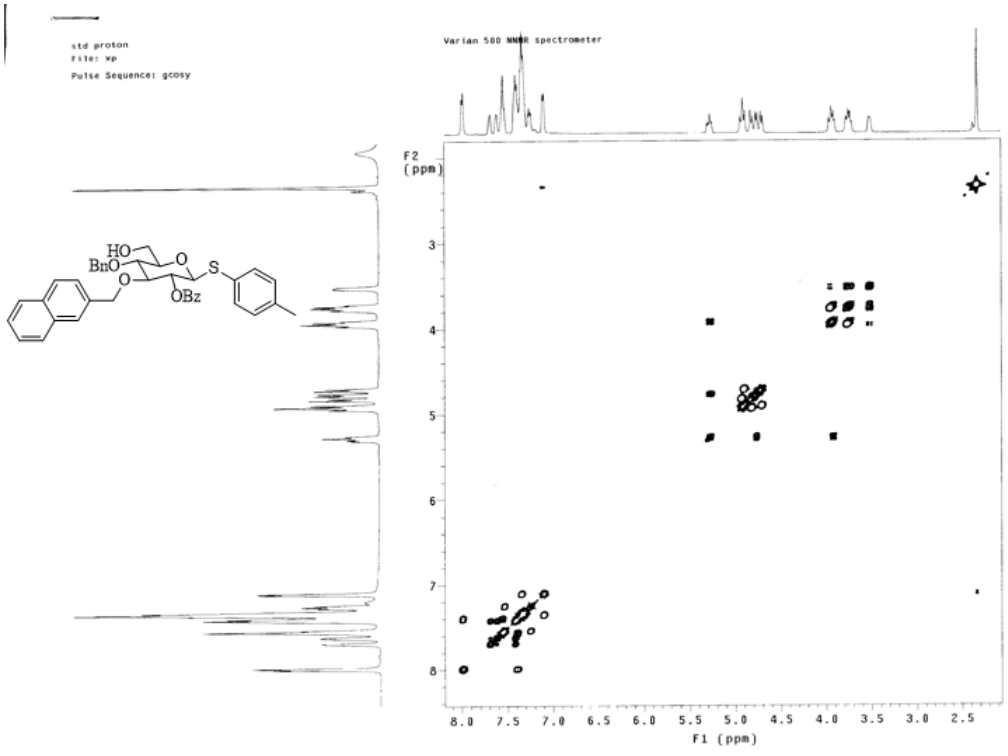
^{1}H-^{13}C HMQC Spectrum of compound **9** ($CDCl_3$, 600 MHz)



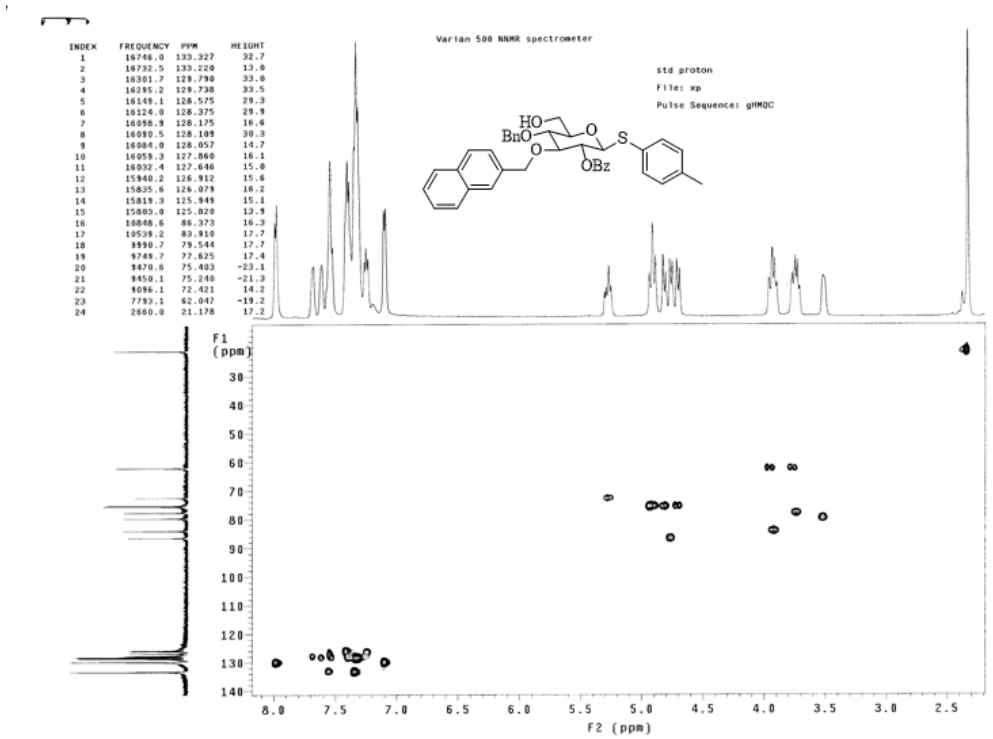
^{1}H NMR Spectrum of compound **14** ($CDCl_3$, 500 MHz)



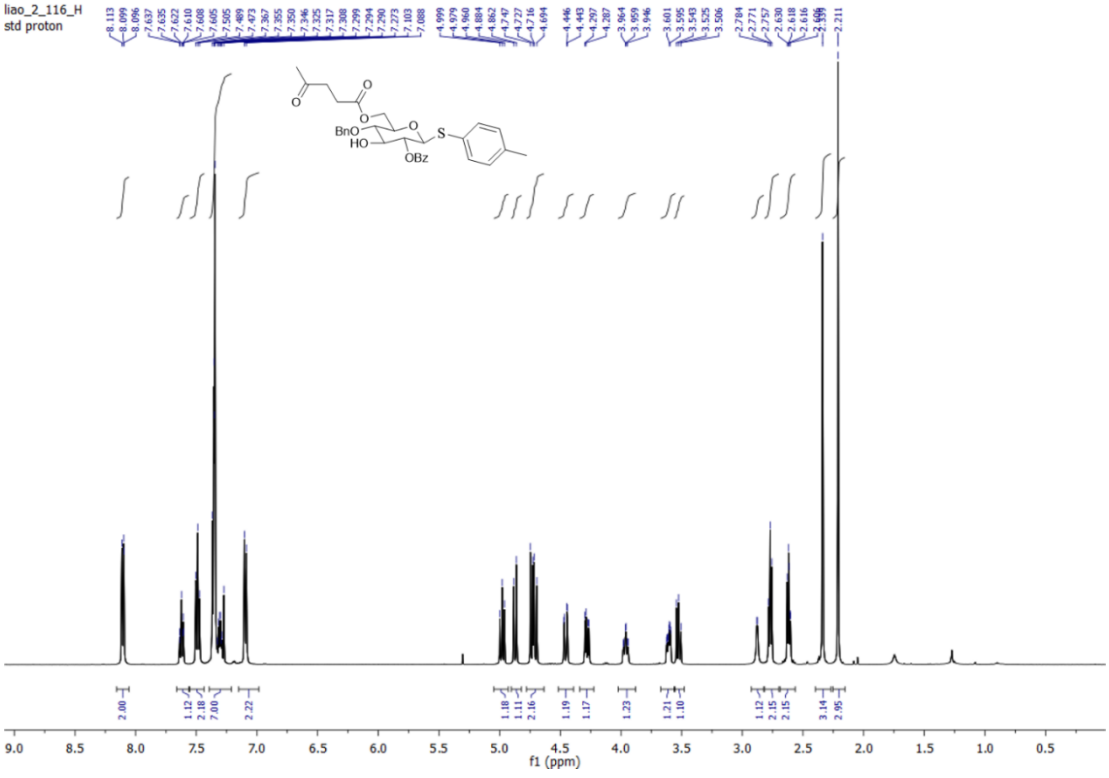
^{13}C NMR Spectrum of compound **14** ($CDCl_3$, 500 MHz)



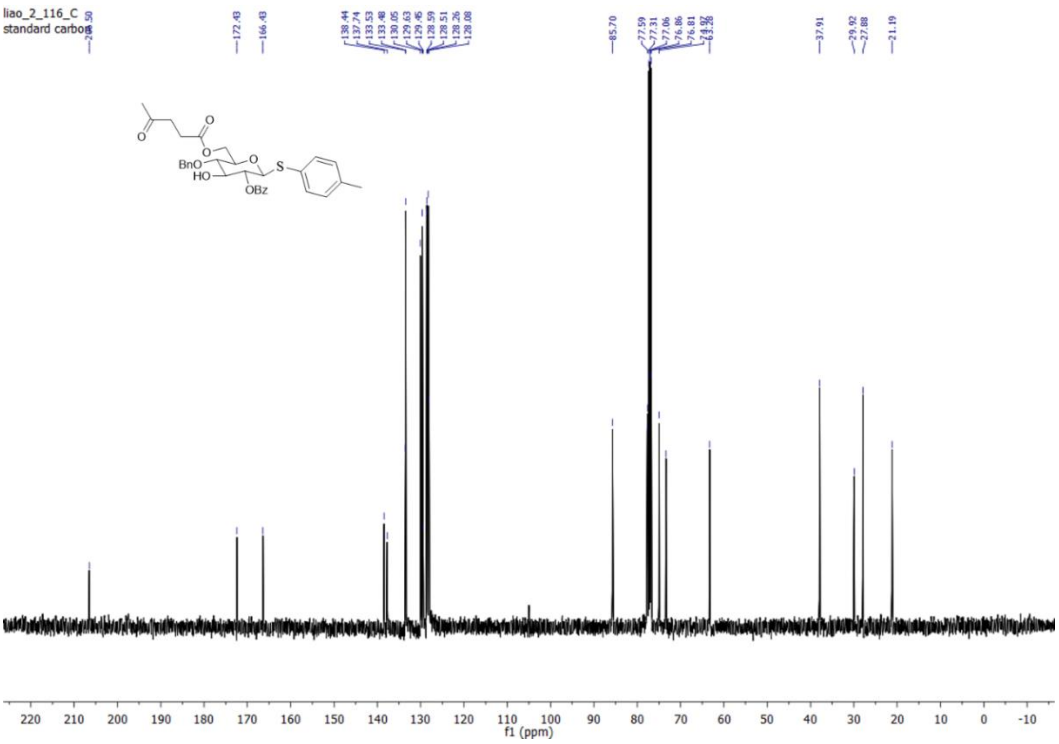
^{1}H-^{1}H COSY Spectrum of compound **14** ($CDCl_3$, 500 MHz)



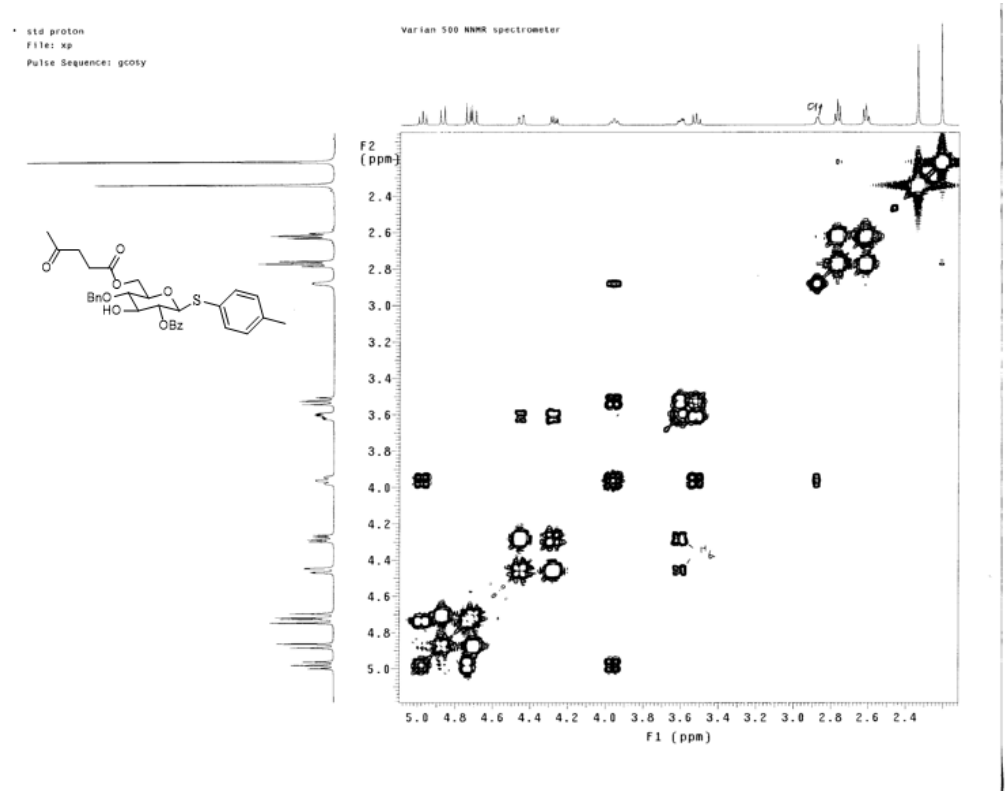
^{1}H-^{13}C HMQC Spectrum of compound **14** ($CDCl_3$, 500 MHz)



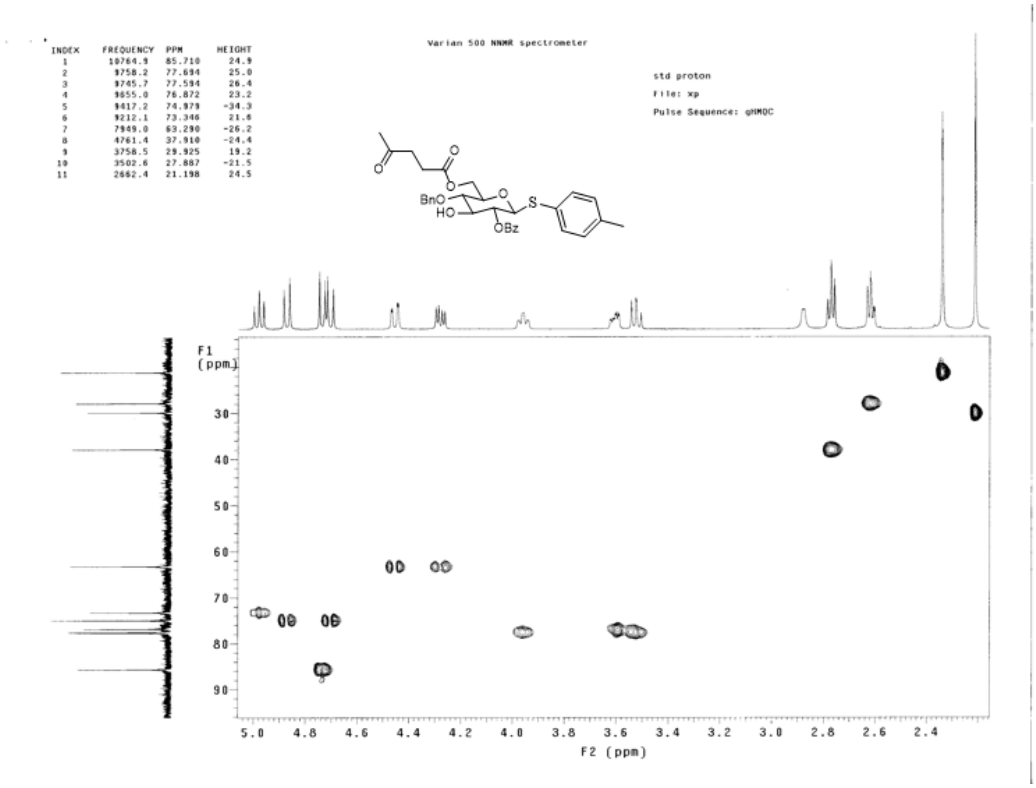
^{1}H NMR Spectrum of compound **11** ($CDCl_3$, 500 MHz)



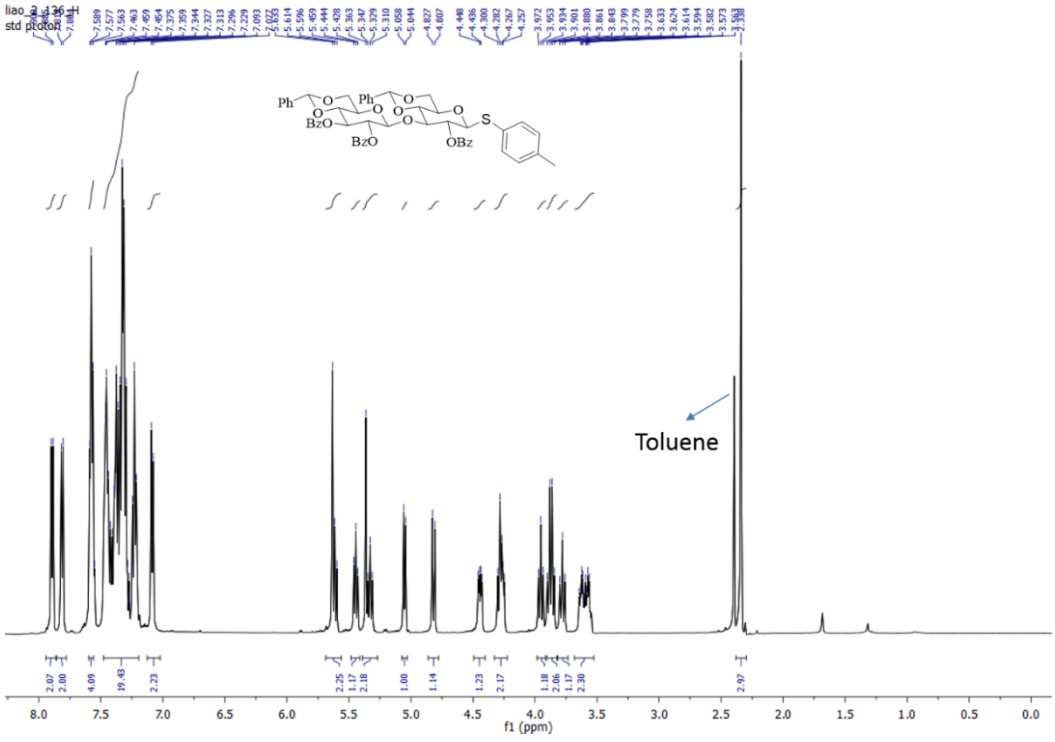
^{13}C NMR Spectrum of compound **11** ($CDCl_3$, 500 MHz)



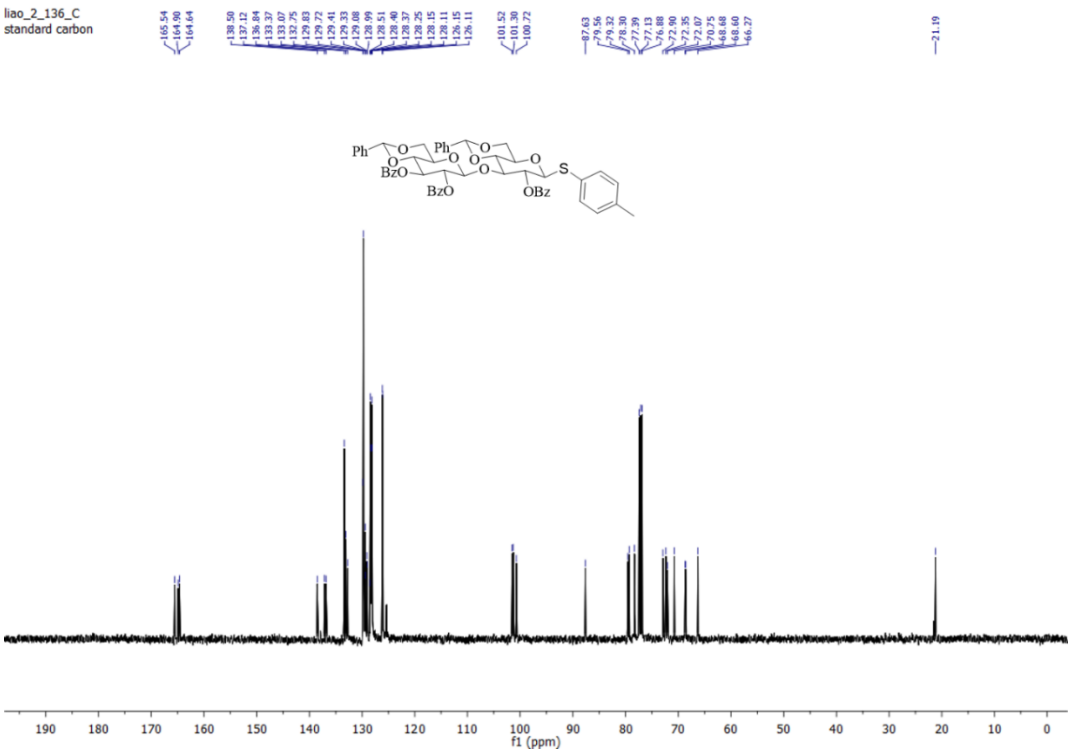
^{1}H-^{1}H COSY Spectrum of compound **11** ($CDCl_3$, 500 MHz)



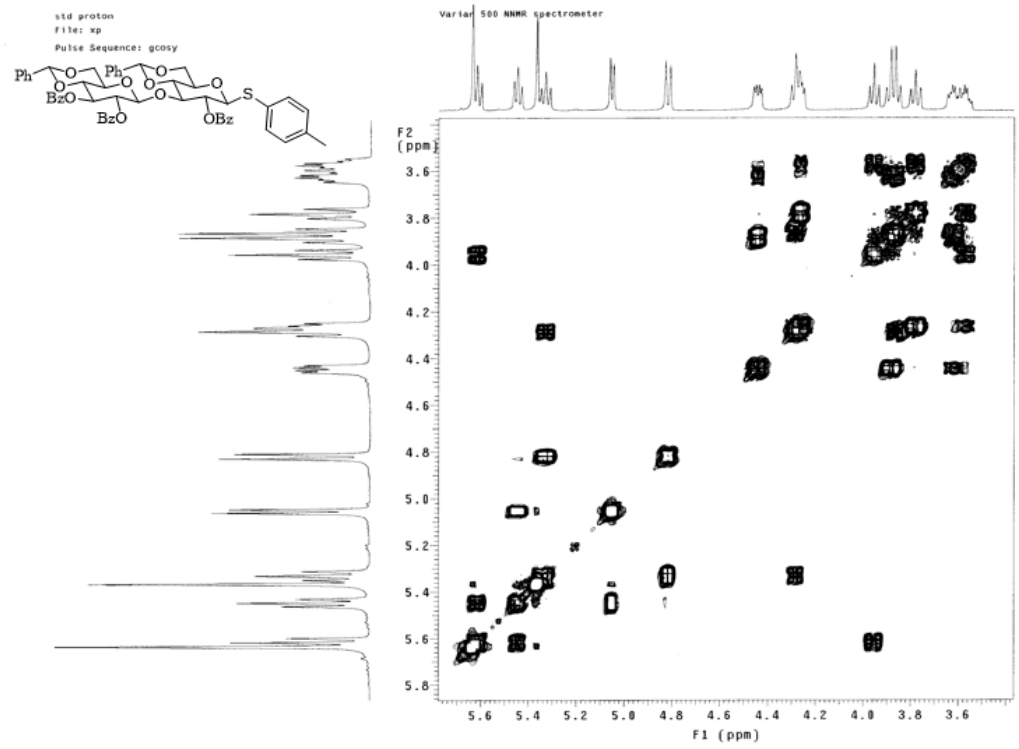
^{1}H-^{13}C HMQC Spectrum of compound **11** ($CDCl_3$, 500 MHz)



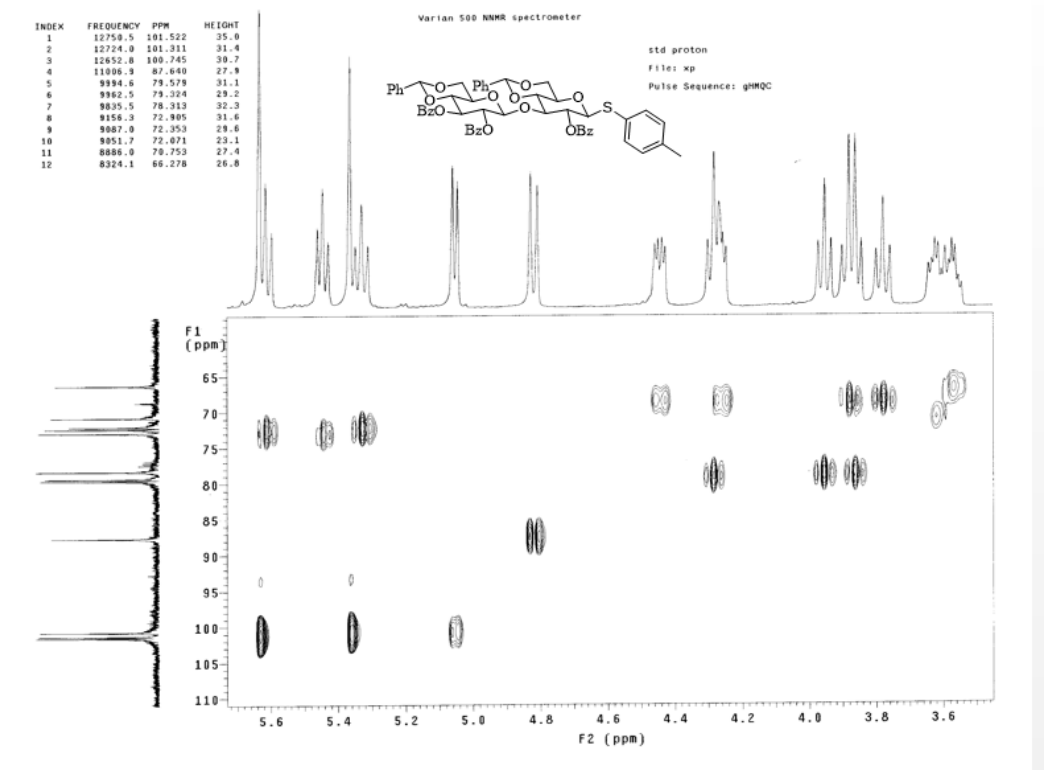
^{1}H NMR Spectrum of compound **5** ($CDCl_3$, 500 MHz)



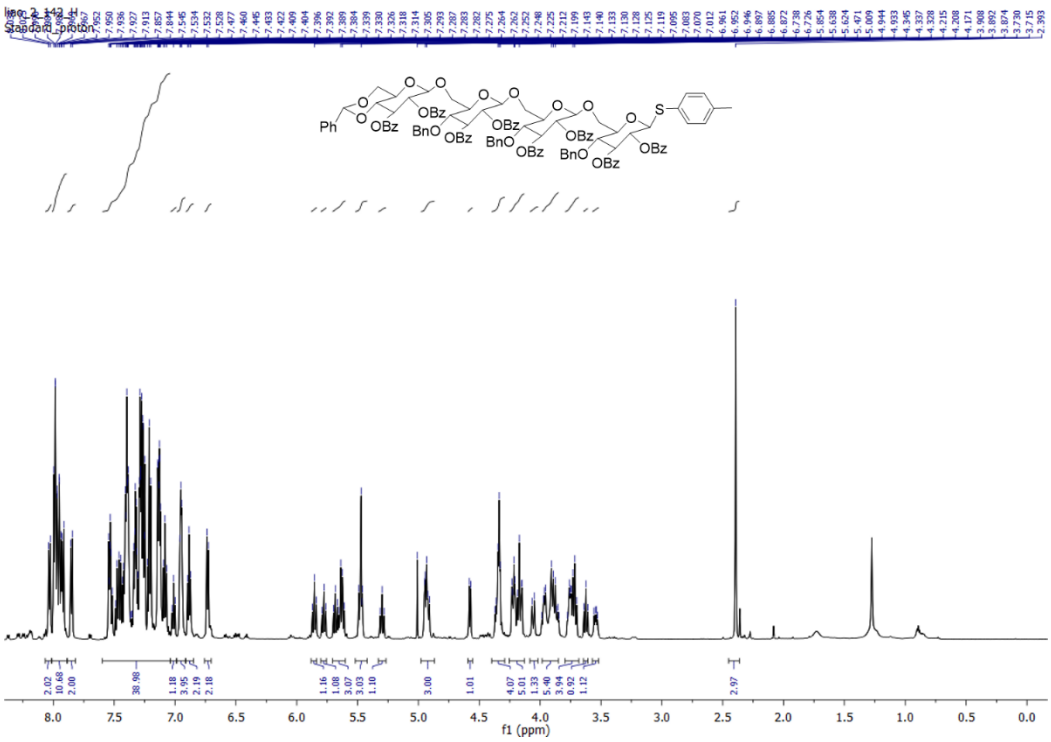
^{13}C NMR Spectrum of compound **5** ($CDCl_3$, 500 MHz)



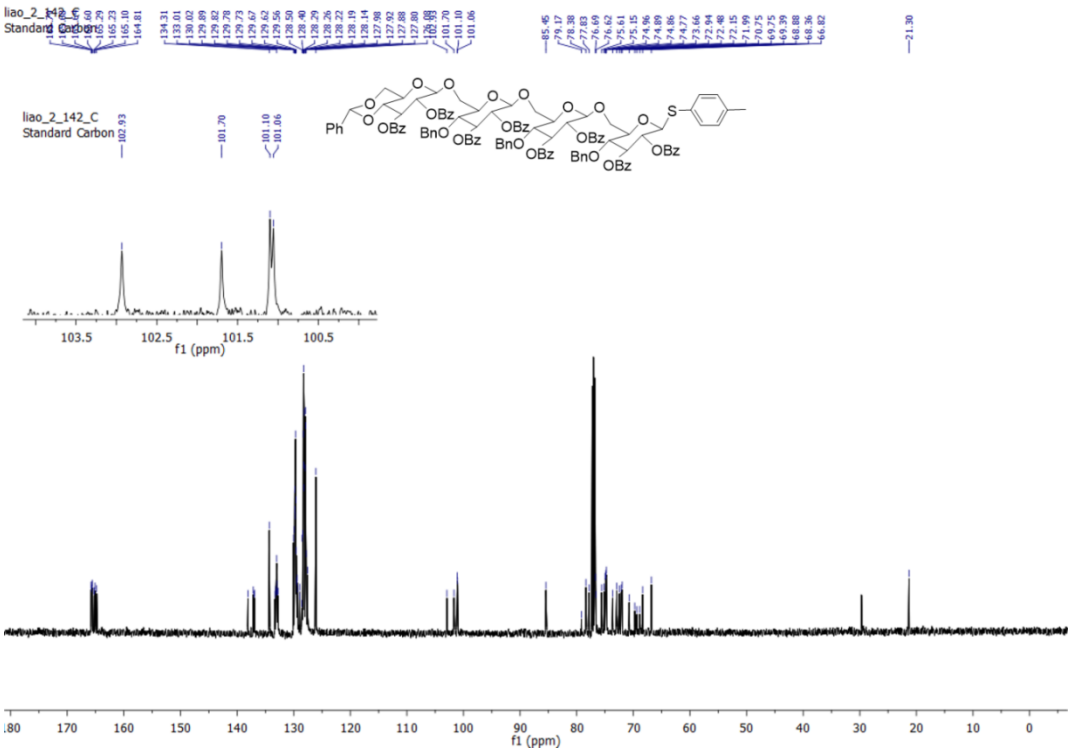
^{1}H-^{1}H COSY Spectrum of compound **5** ($CDCl_3$, 500 MHz)



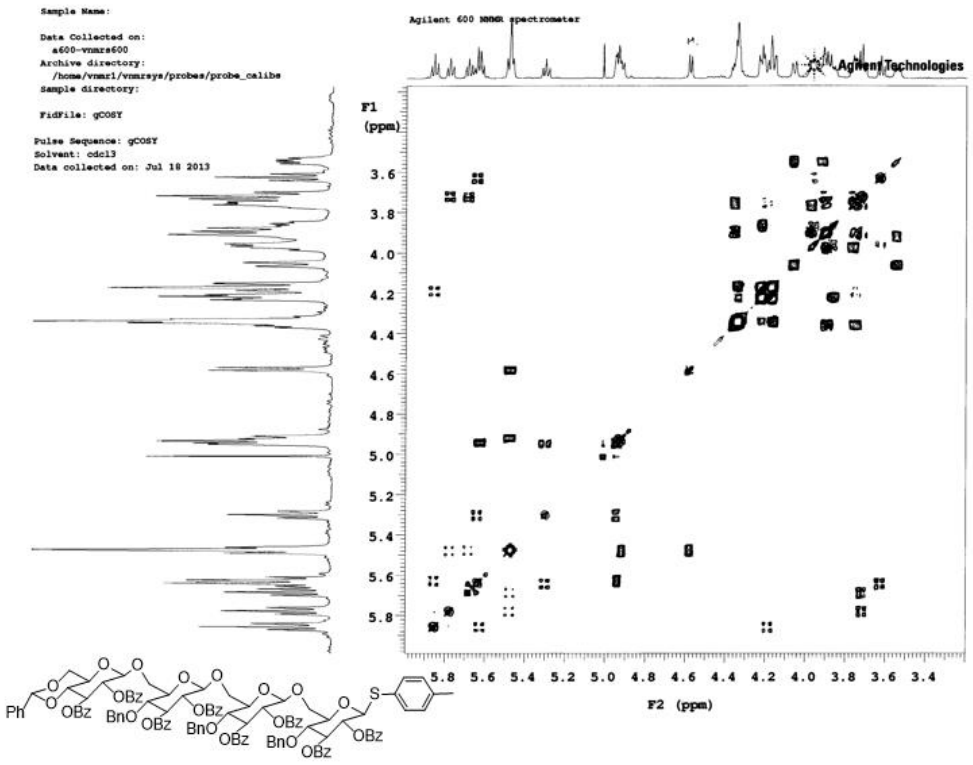
^{1}H-^{13}C HMQC Spectrum of compound **5** ($CDCl_3$, 500 MHz)



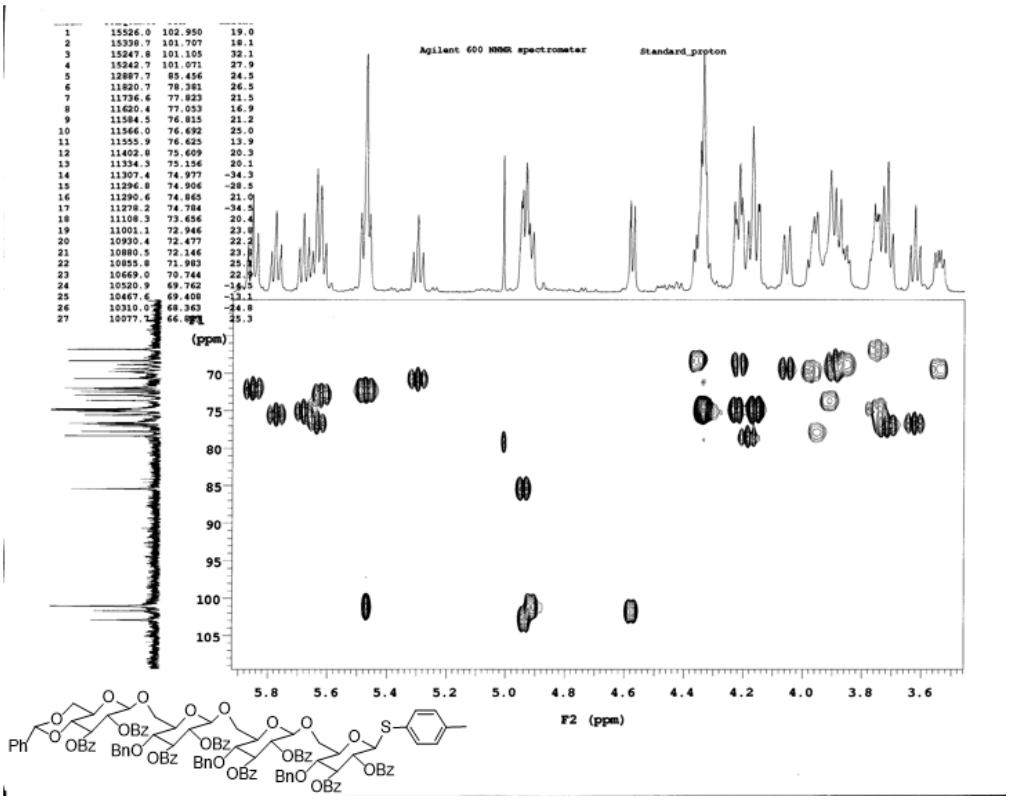
^{1}H NMR Spectrum of compound **4** ($CDCl_3$, 600 MHz)



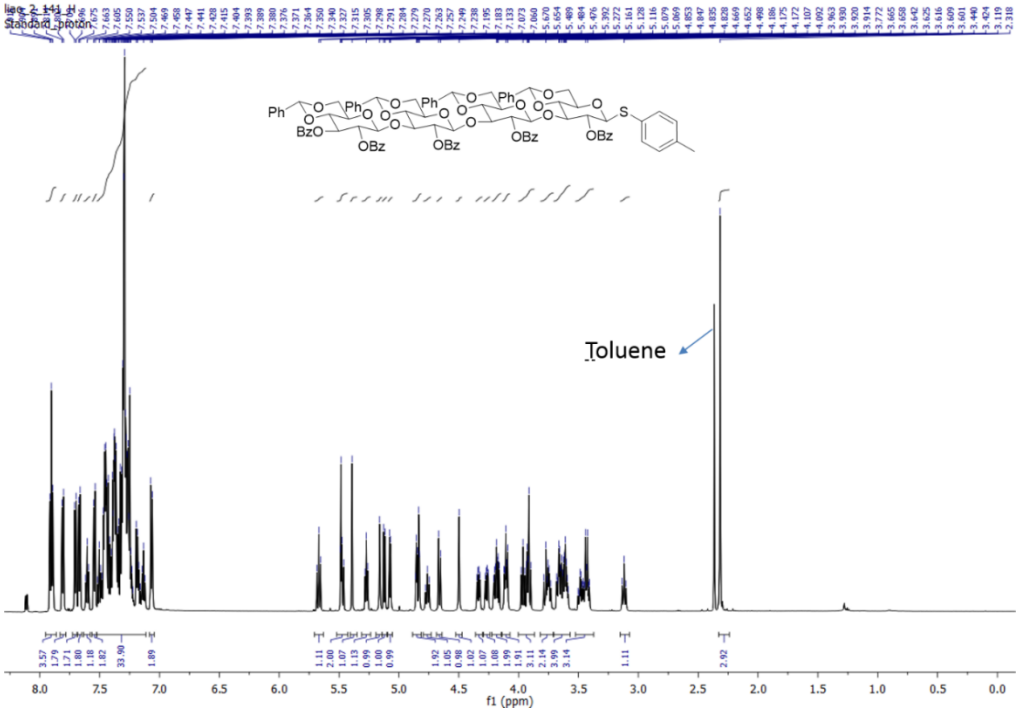
^{13}C NMR Spectrum of compound **4** ($CDCl_3$, 600 MHz)



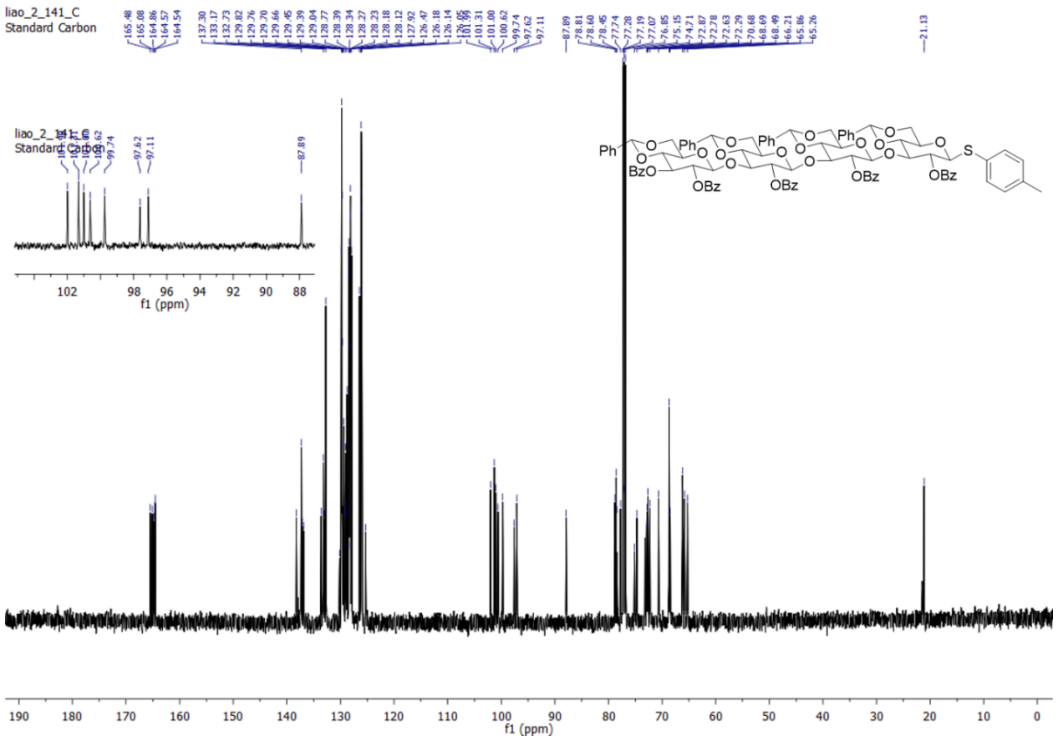
^{1}H-^{1}H COSY Spectrum of compound **4** ($CDCl_3$, 600 MHz)



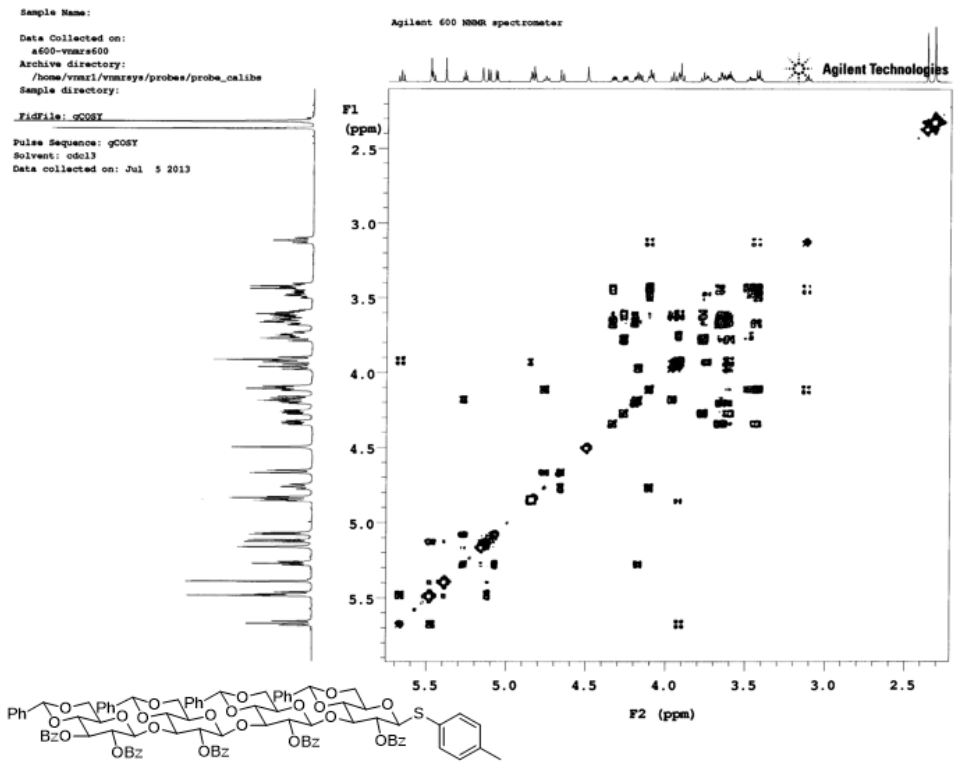
^{1}H-^{13}C HMQC Spectrum of compound **4** ($CDCl_3$, 600 MHz)



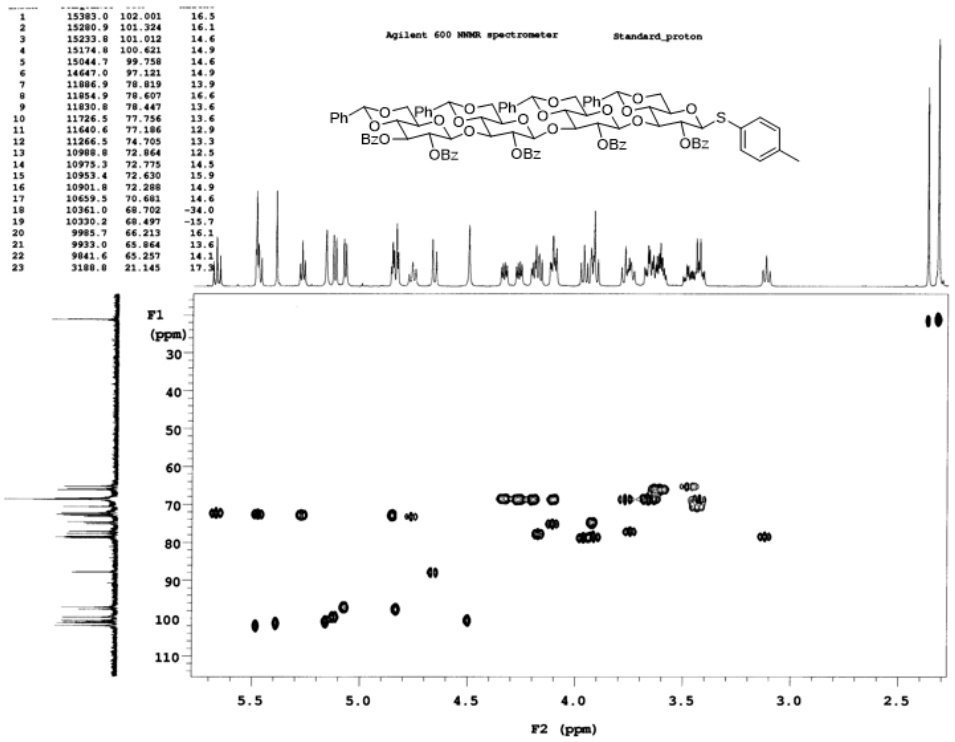
^{1}H NMR Spectrum of compound **6** ($CDCl_3$, 600 MHz)



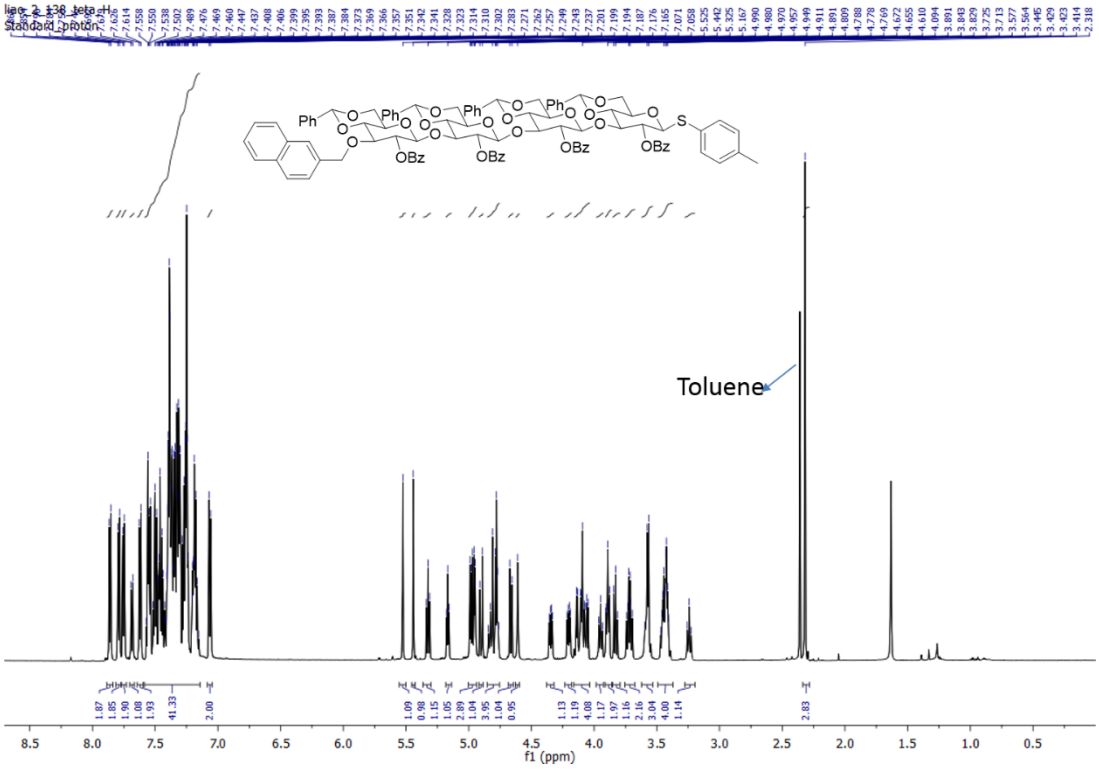
^{13}C NMR Spectrum of compound **6** ($CDCl_3$, 600 MHz)



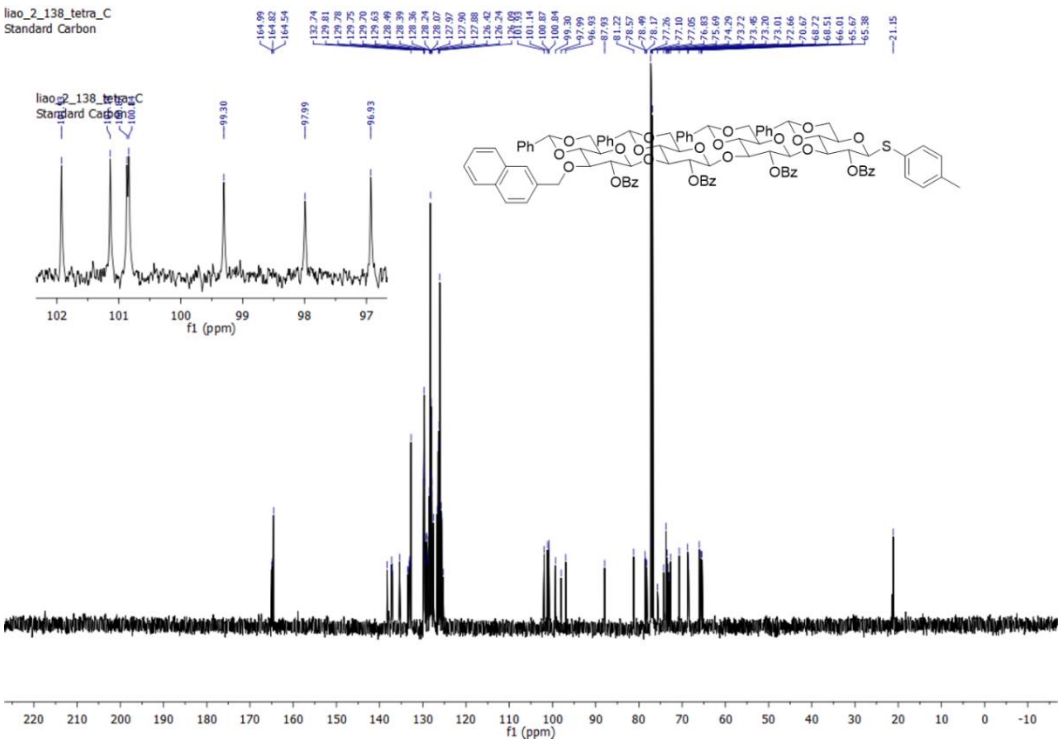
^{1}H-^{1}H COSY Spectrum of compound **6** ($CDCl_3$, 600 MHz)



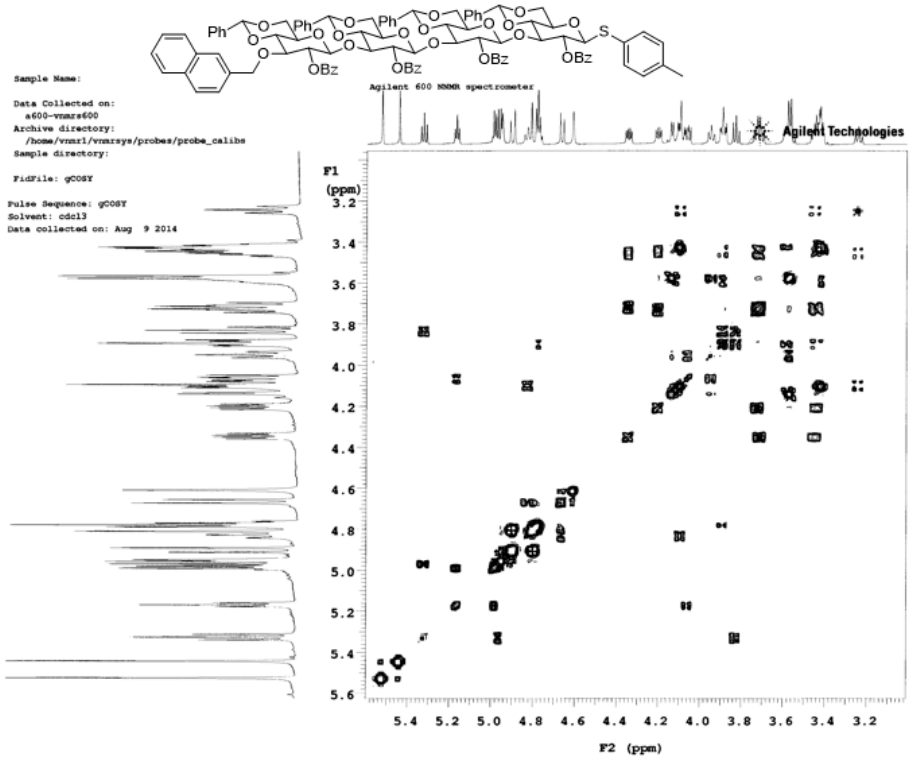
^{1}H-^{13}C HMQC Spectrum of compound **6** ($CDCl_3$, 600 MHz)



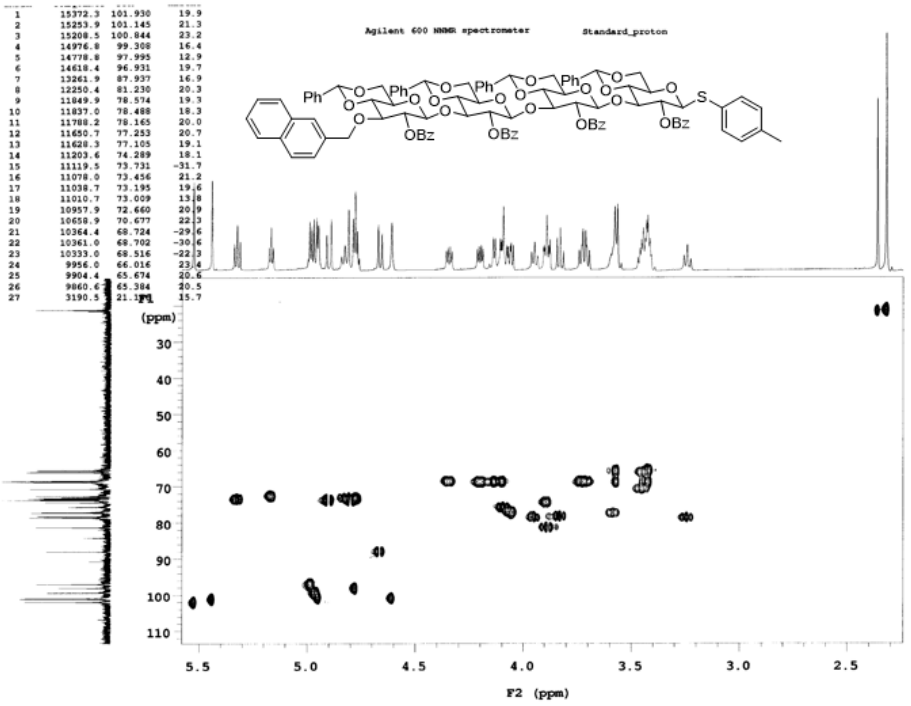
^{1}H NMR Spectrum of compound **15** ($CDCl_3$, 600 MHz)



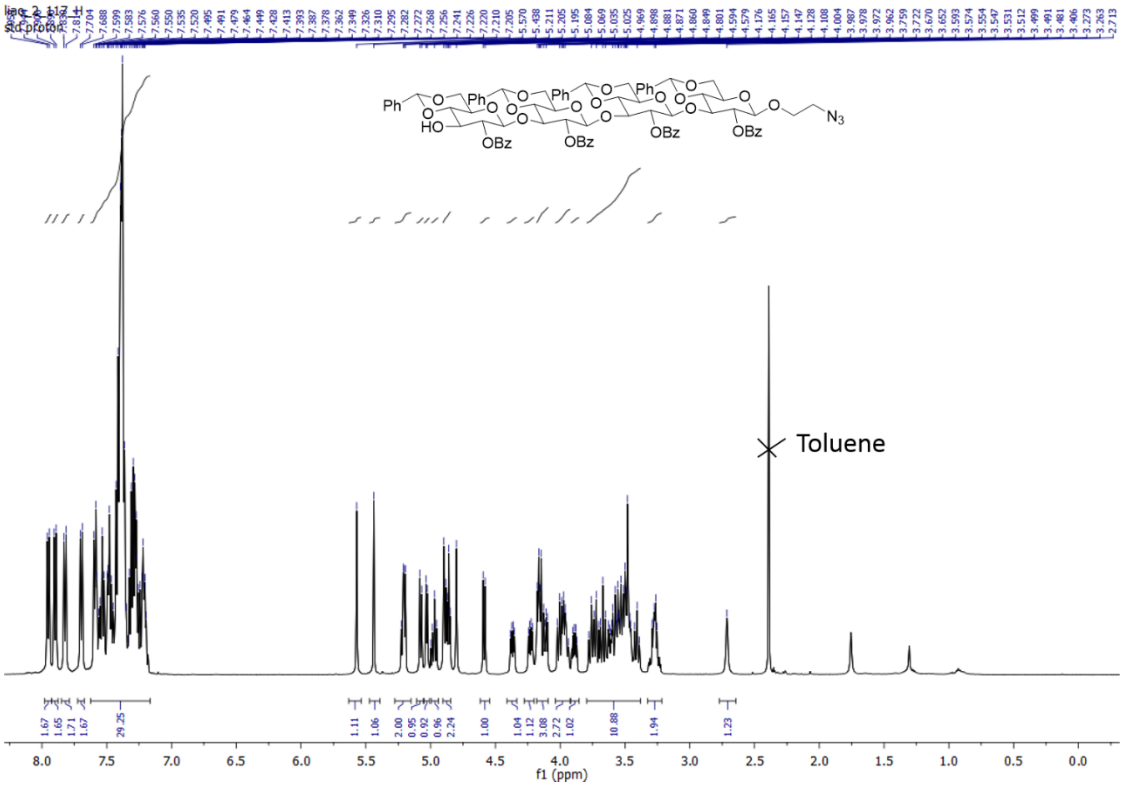
^{13}C NMR Spectrum of compound **15** ($CDCl_3$, 600 MHz)



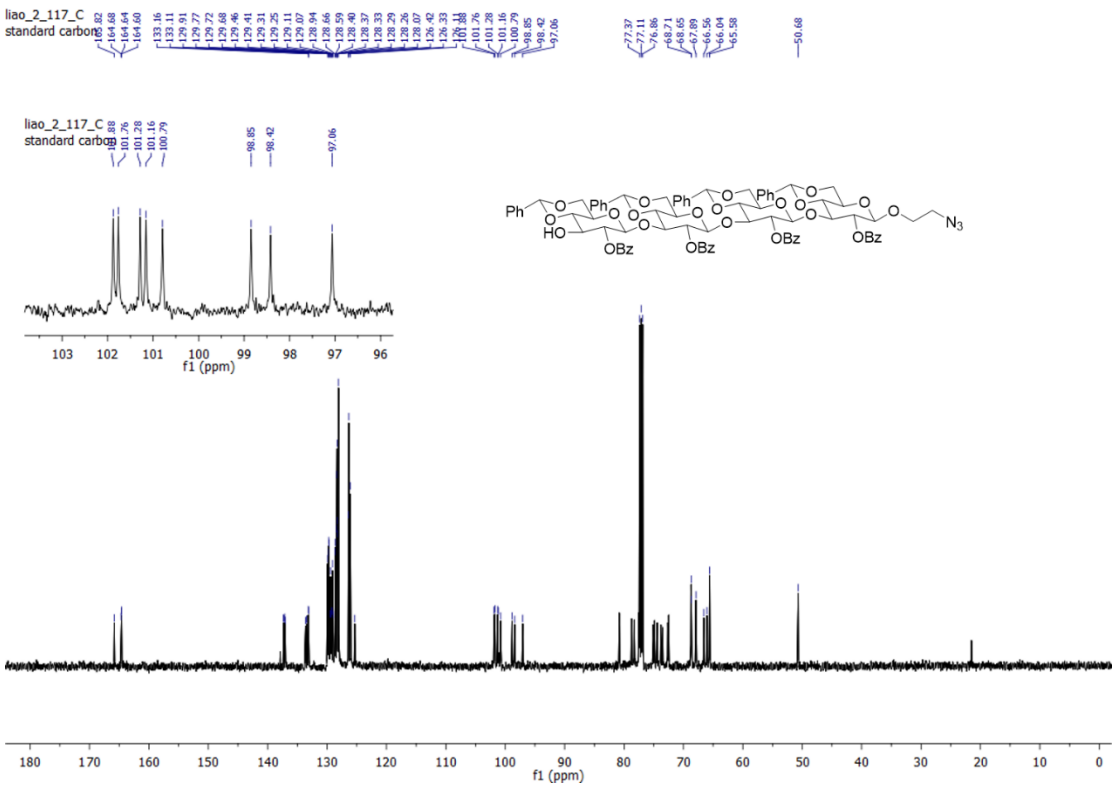
^{1}H-^{1}H COSY Spectrum of compound **15** ($CDCl_3$, 600 MHz)



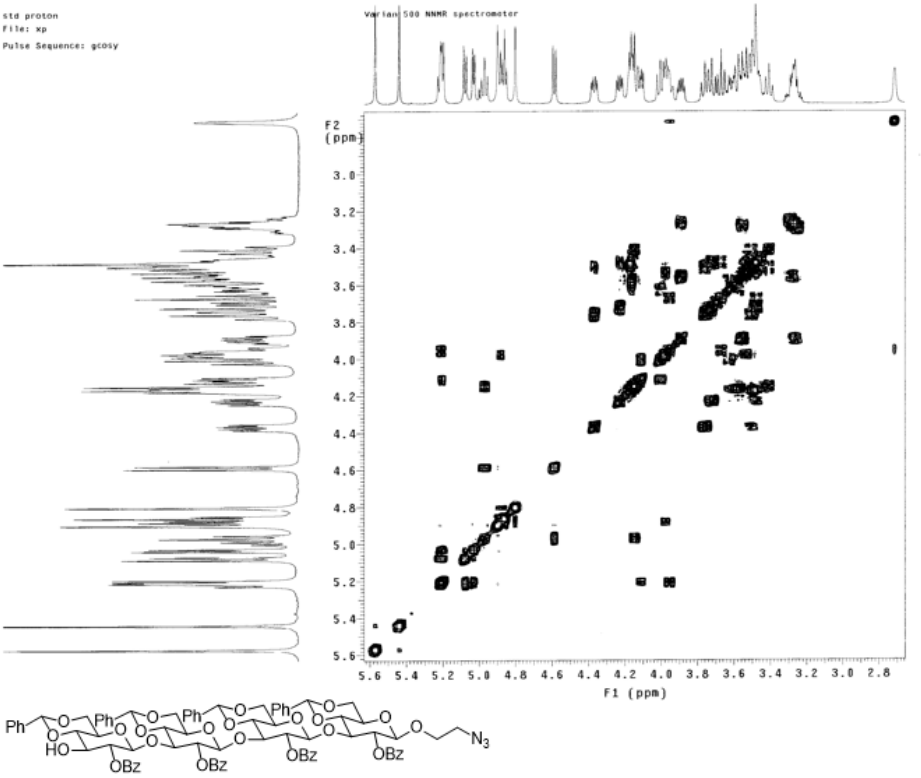
^{1}H-^{13}C HMQC Spectrum of compound **15** ($CDCl_3$, 600 MHz)



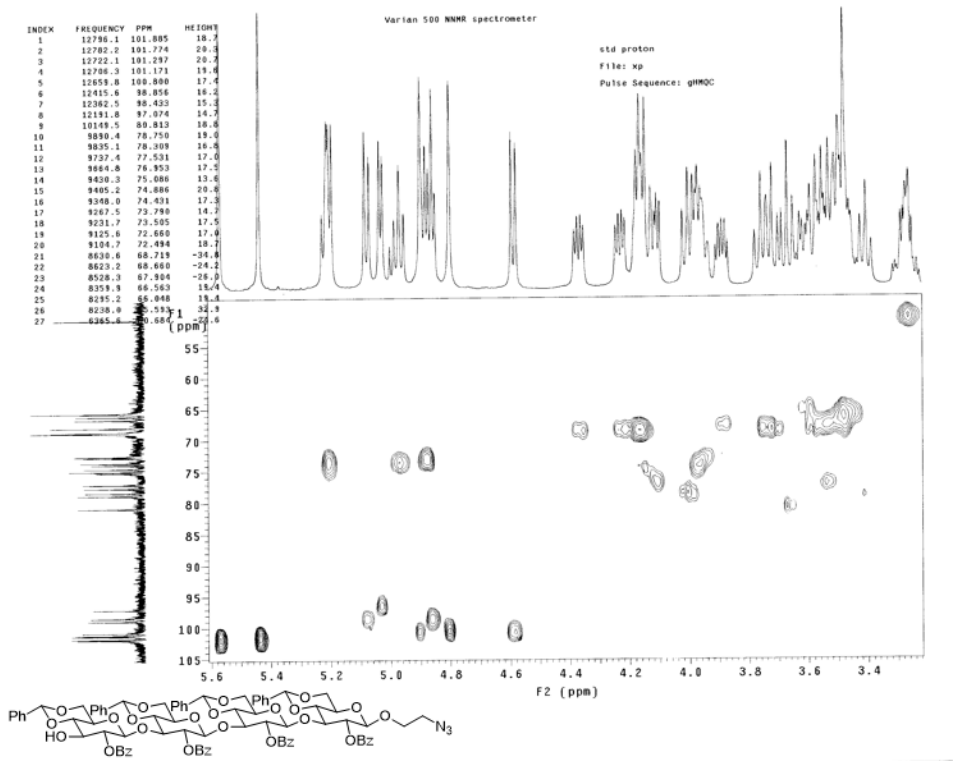
^{1}H NMR Spectrum of compound **12** ($CDCl_3$, 600 MHz)



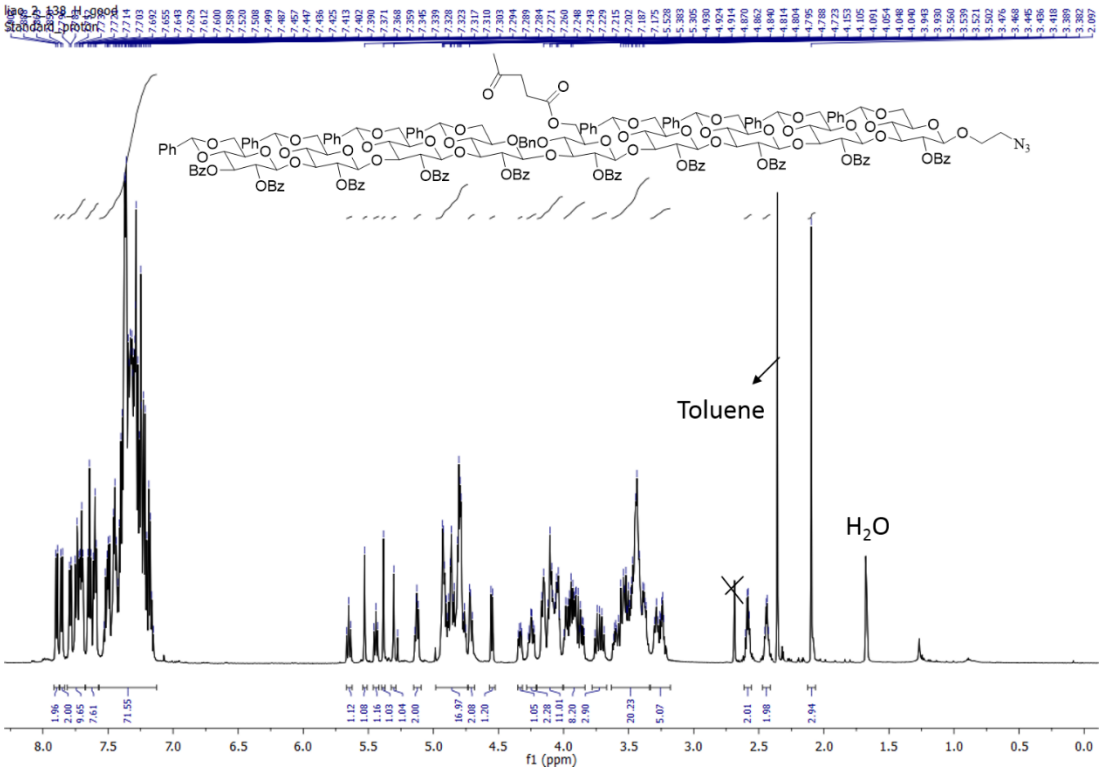
^{13}C NMR Spectrum of compound **12** ($CDCl_3$, 600 MHz)



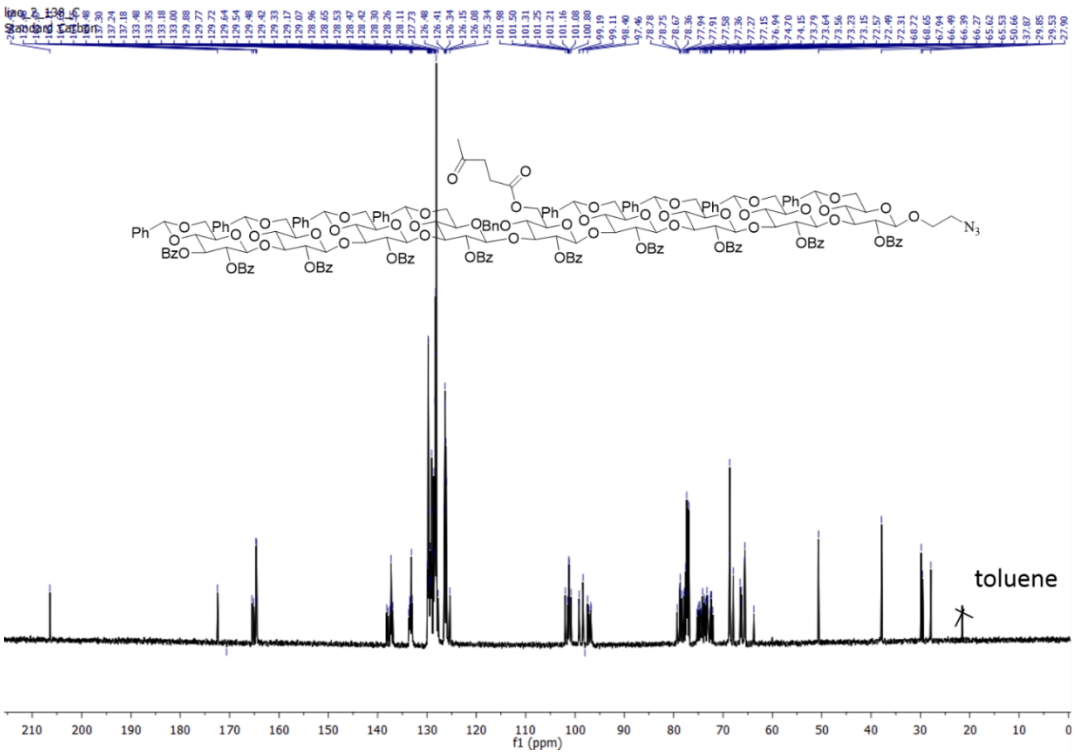
^{1}H-^{1}H COSY Spectrum of compound **12** ($CDCl_3$, 600 MHz)



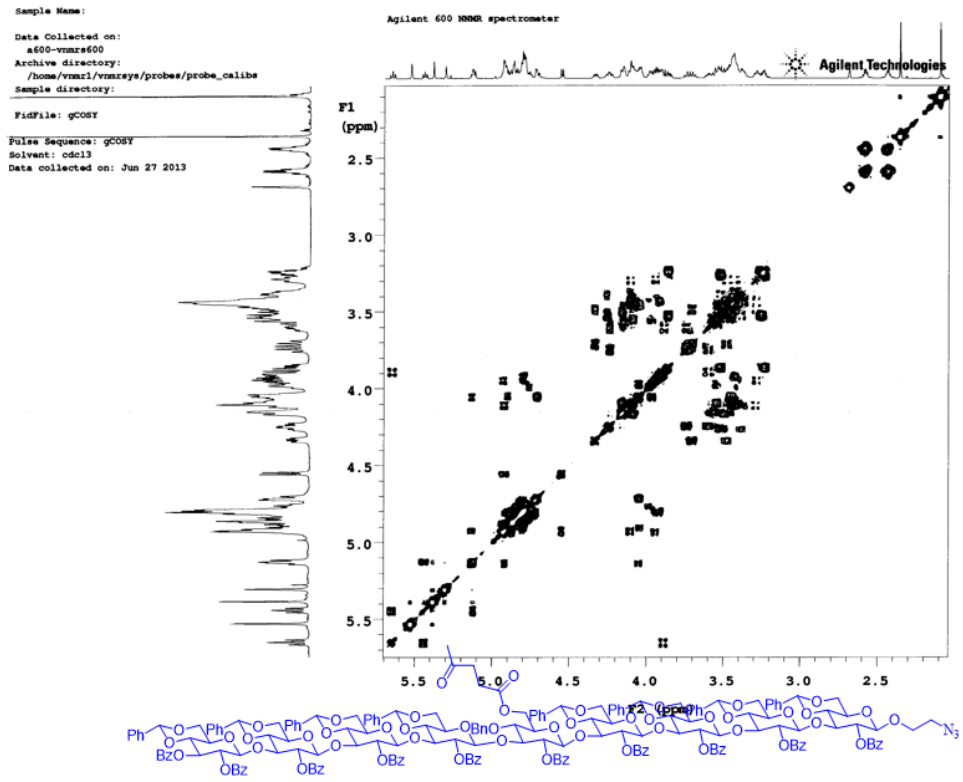
^{1}H-^{13}C HMQC Spectrum of compound **12** ($CDCl_3$, 600 MHz)



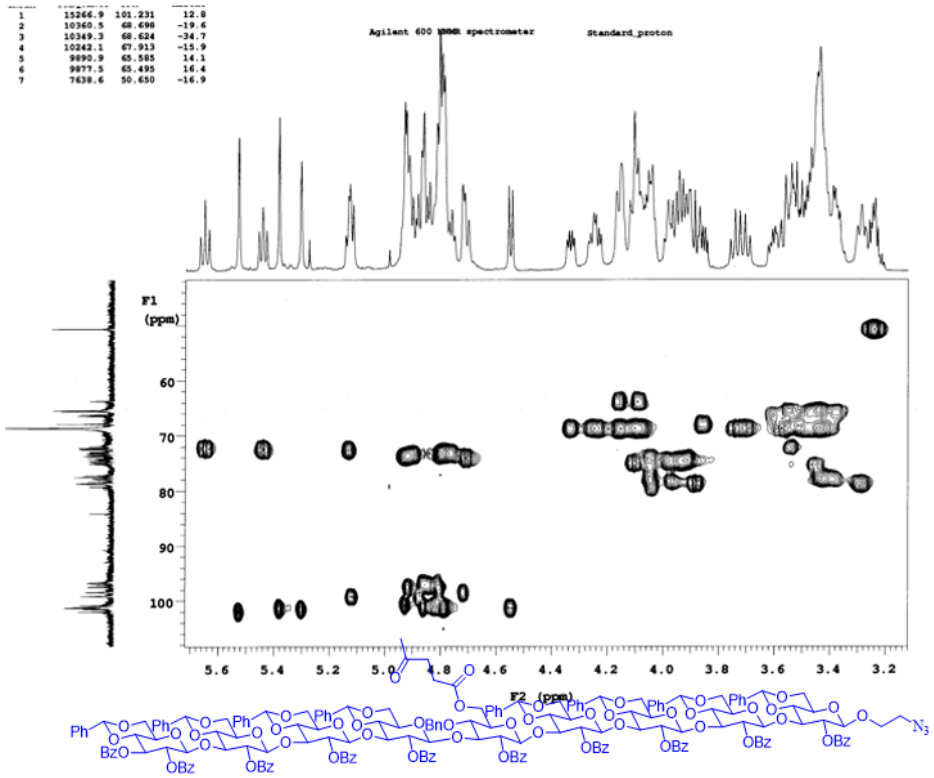
^{1}H NMR Spectrum of compound **16** ($CDCl_3$, 600 MHz)



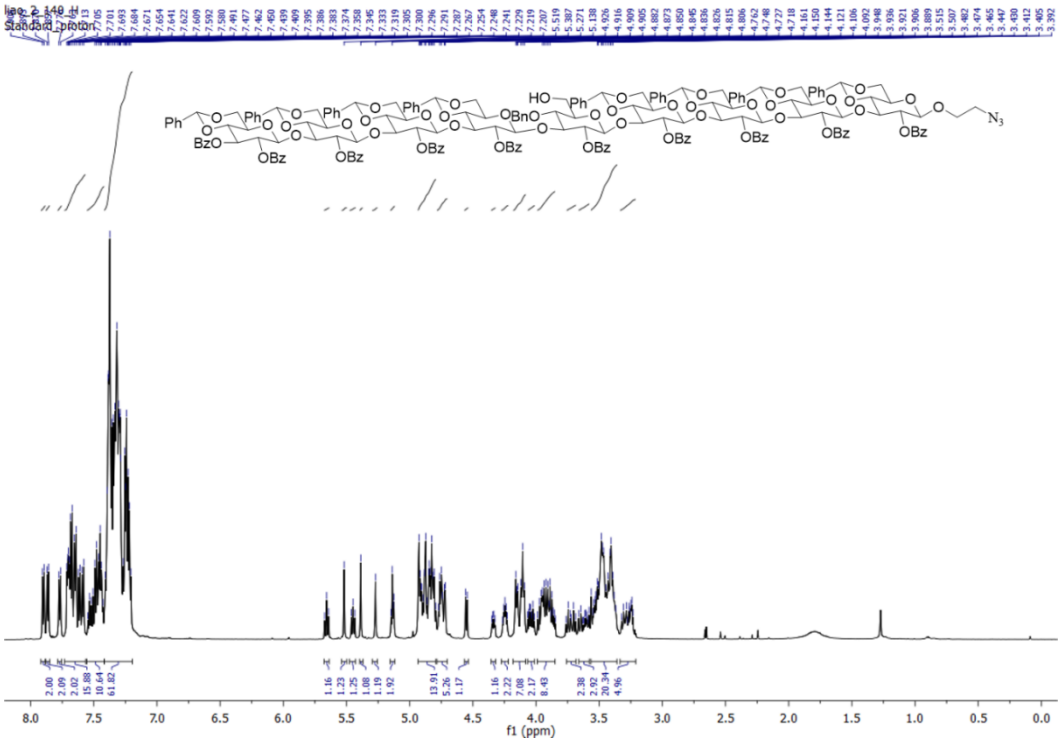
^{13}C NMR Spectrum of compound **16** ($CDCl_3$, 600 MHz)



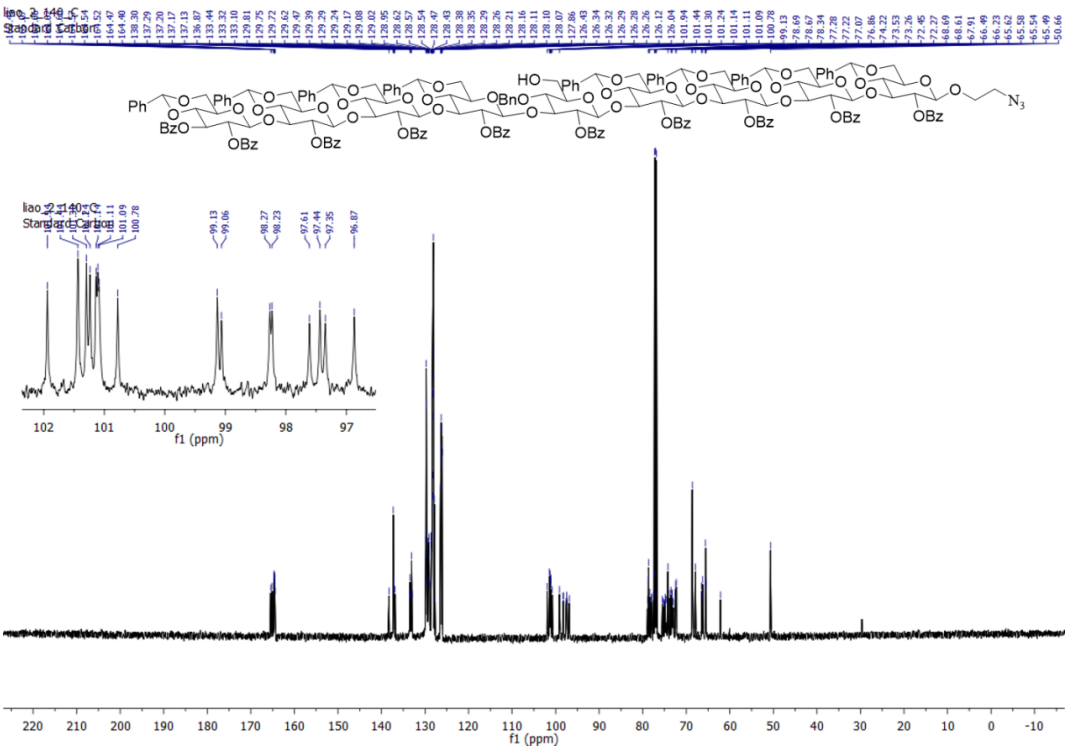
^{1}H-^{1}H COSY Spectrum of compound **16** ($CDCl_3$, 600 MHz)



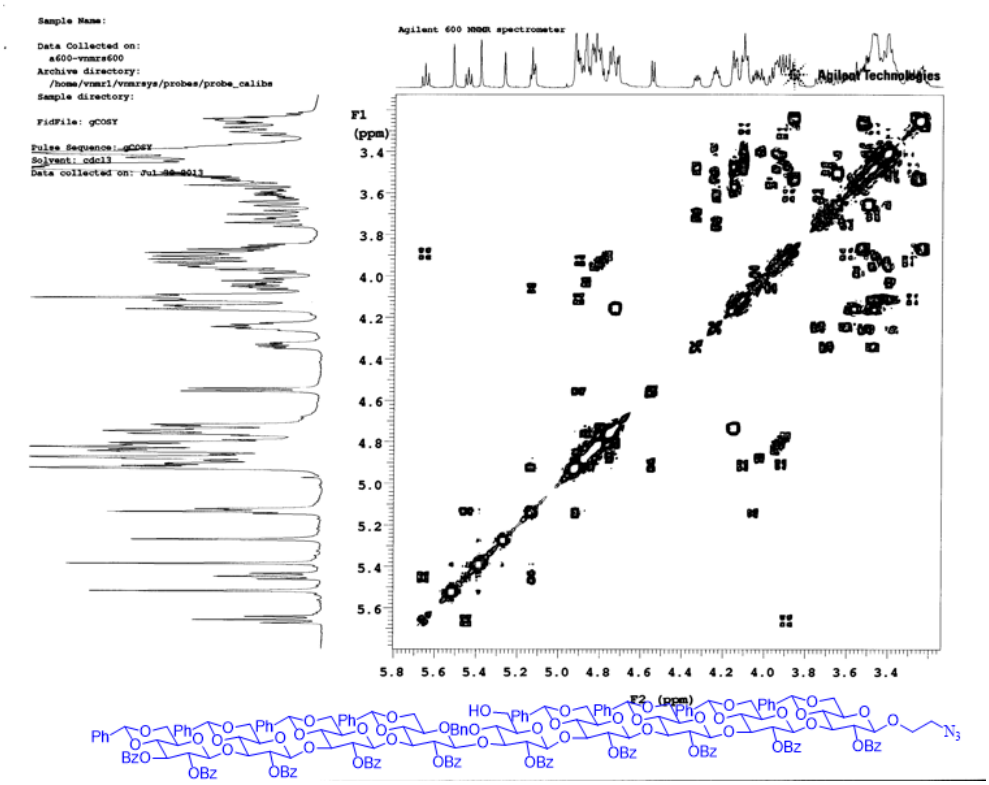
^{1}H-^{13}C HMQC Spectrum of compound **16** ($CDCl_3$, 600 MHz)



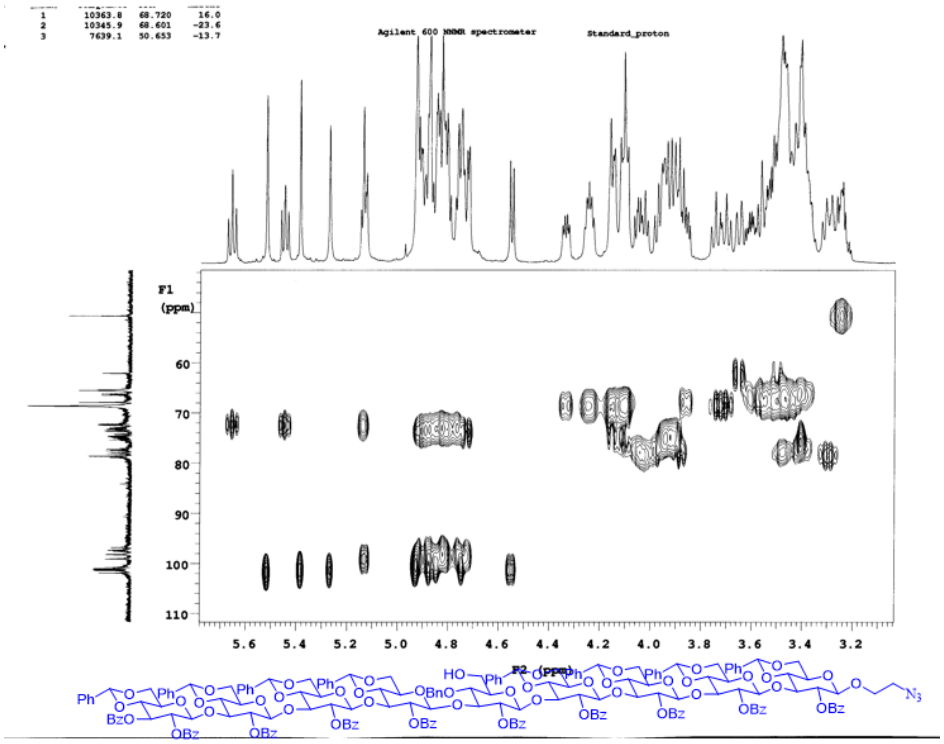
^{1}H NMR Spectrum of compound **7** ($CDCl_3$, 600 MHz)



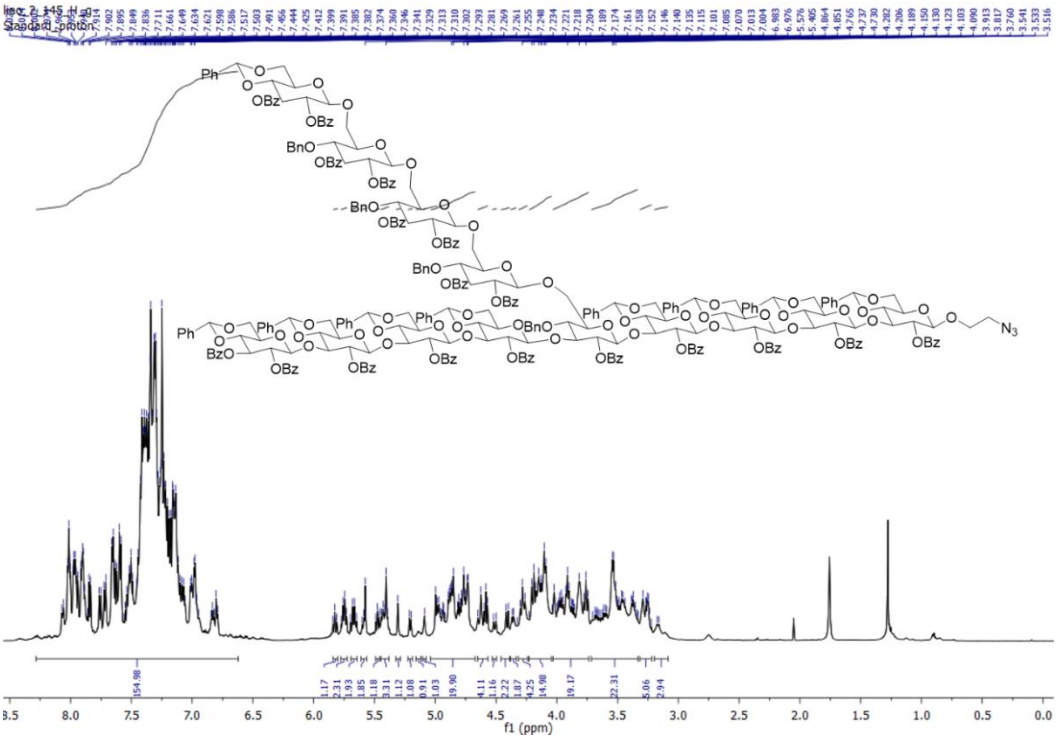
^{13}C NMR Spectrum of compound **7** ($CDCl_3$, 600 MHz)



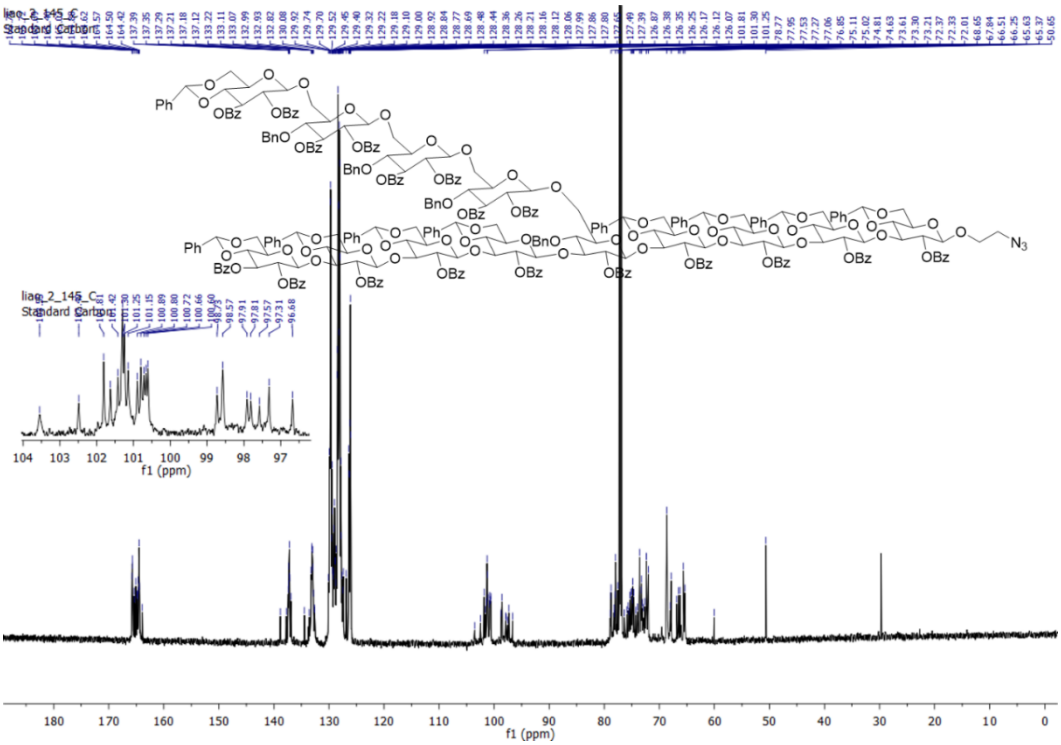
^{1}H-^{1}H COSY Spectrum of compound **7** ($CDCl_3$, 600 MHz)



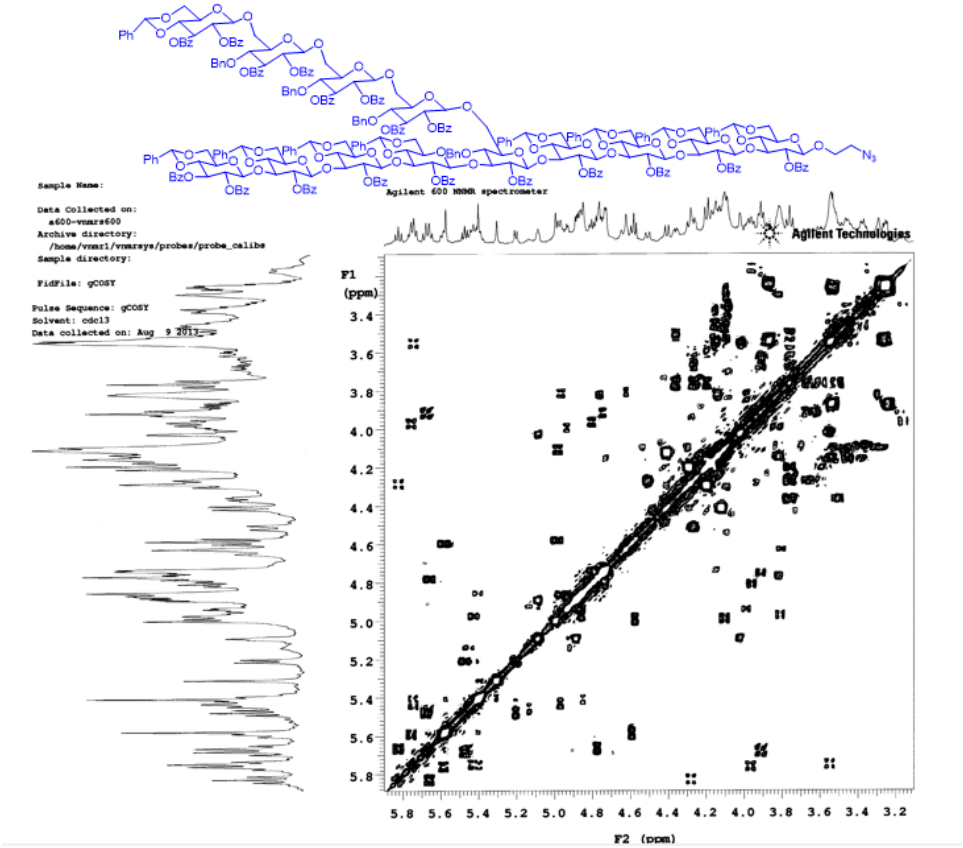
^{1}H-^{13}C HMQC Spectrum of compound **7** ($CDCl_3$, 600 MHz)



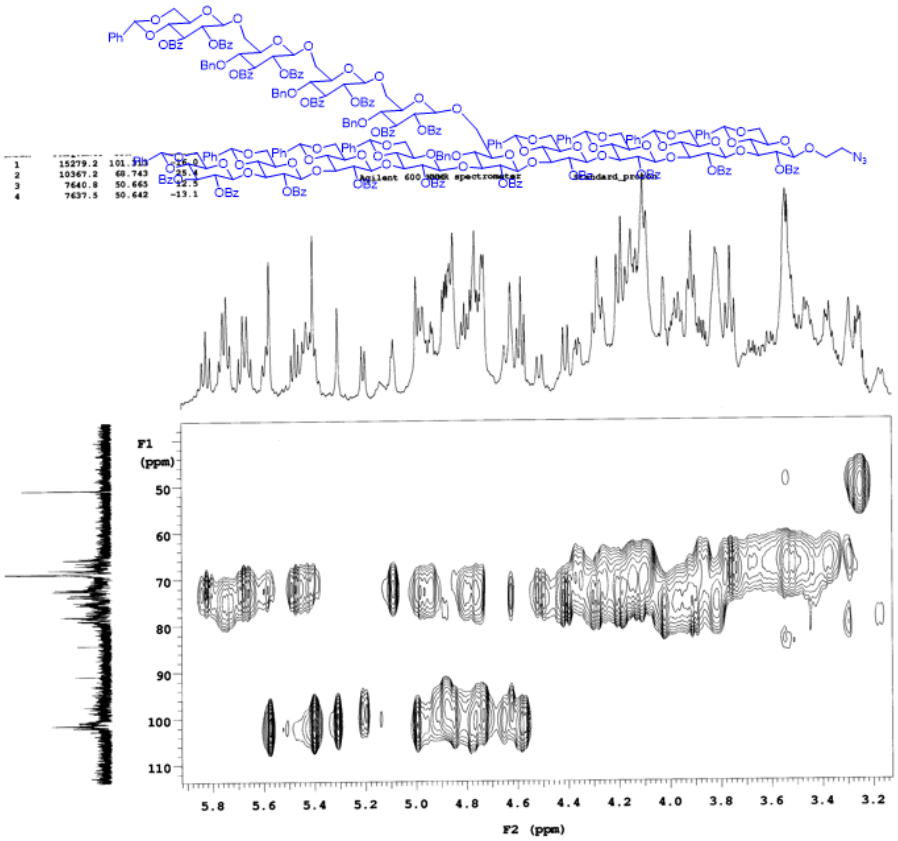
^{1}H NMR Spectrum of compound **17** ($CDCl_3$, 600 MHz)



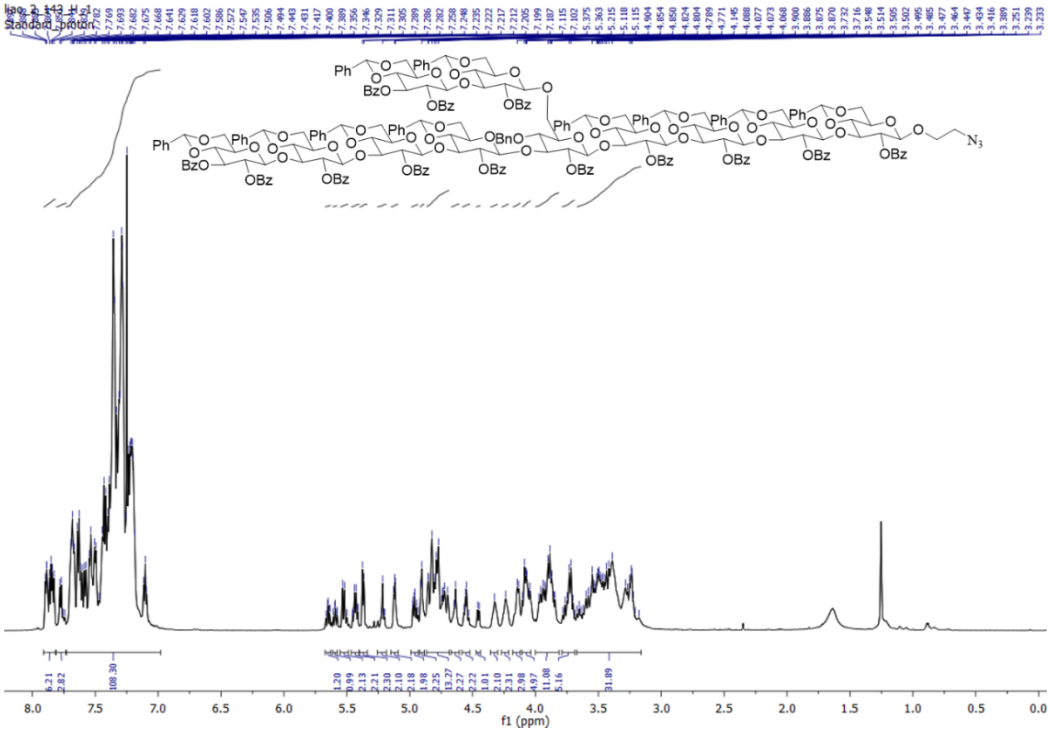
^{13}C NMR Spectrum of compound **17** ($CDCl_3$, 600 MHz)



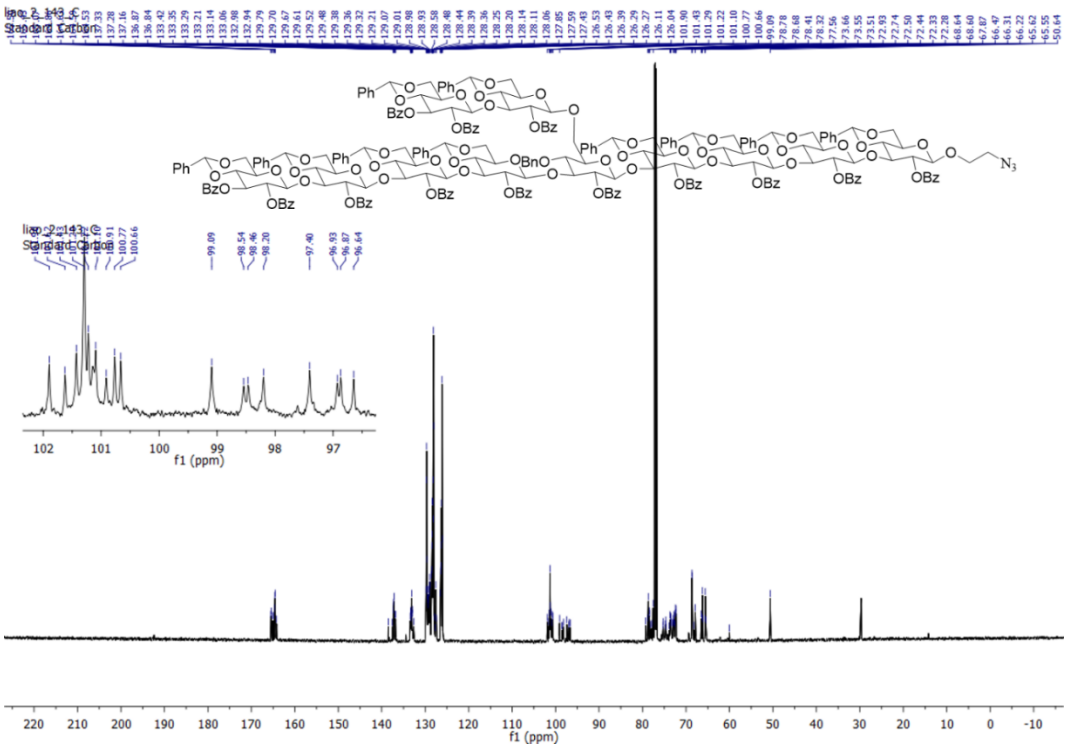
^{1}H-^{1}H COSY Spectrum of compound **17** ($CDCl_3$, 600 MHz)



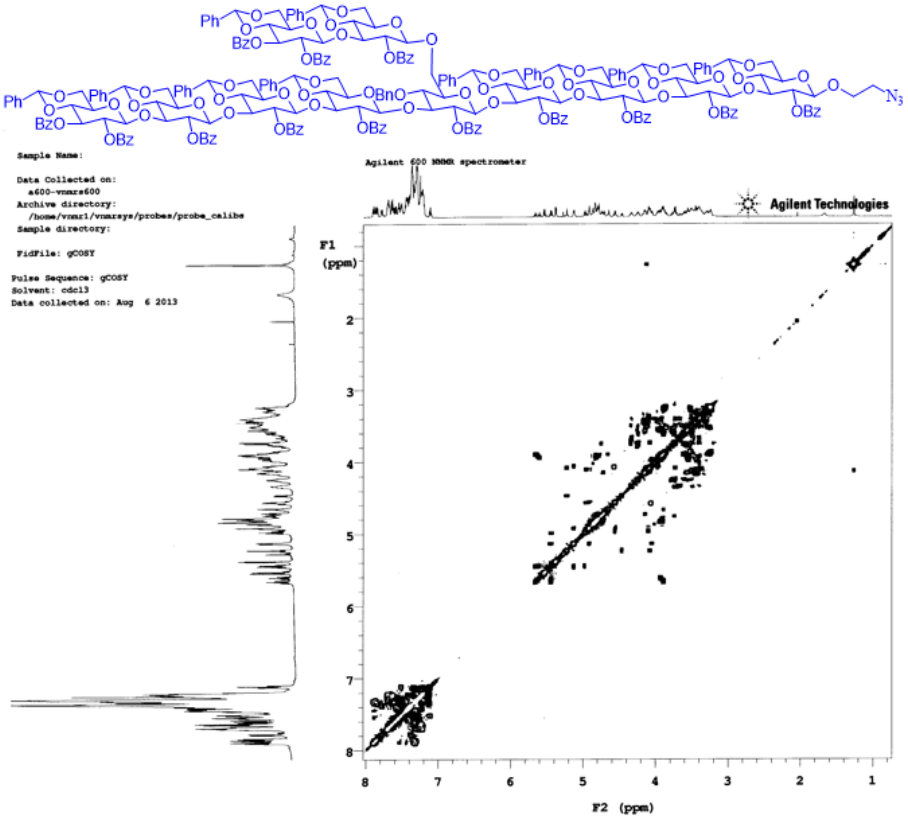
^{1}H-^{13}C HMQC Spectrum of compound **17** ($CDCl_3$, 600 MHz)



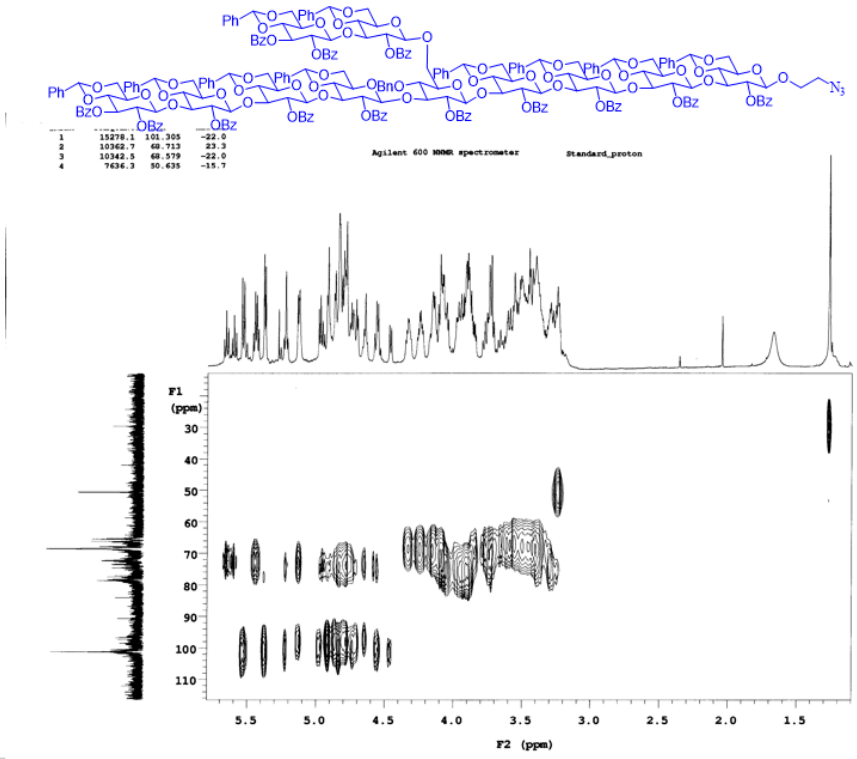
^{1}H NMR Spectrum of compound **18** ($CDCl_3$, 600 MHz)



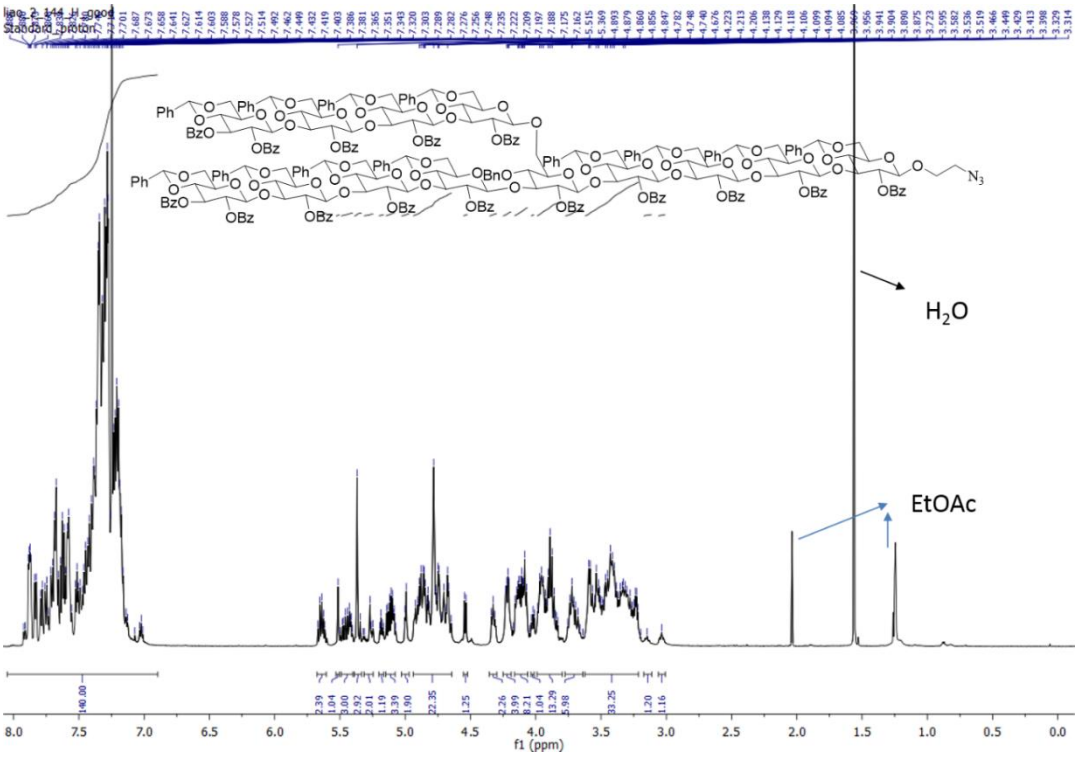
^{13}C NMR Spectrum of compound **18** ($CDCl_3$, 600 MHz)



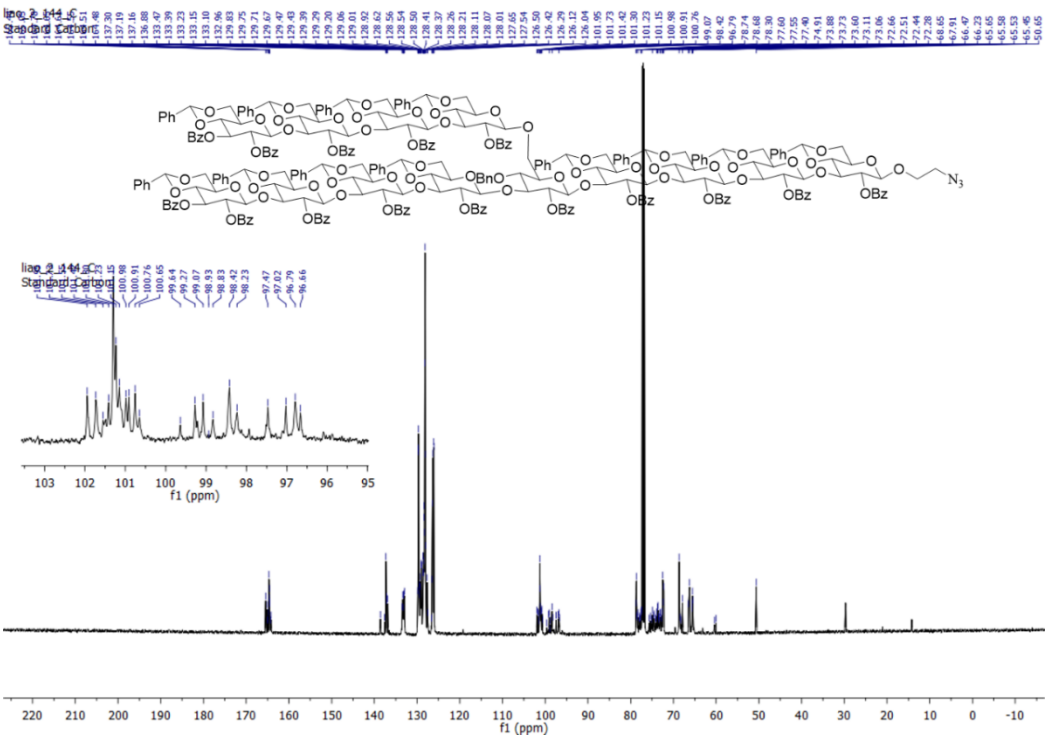
^{1}H-^{1}H COSY Spectrum of compound **18** ($CDCl_3$, 600 MHz)



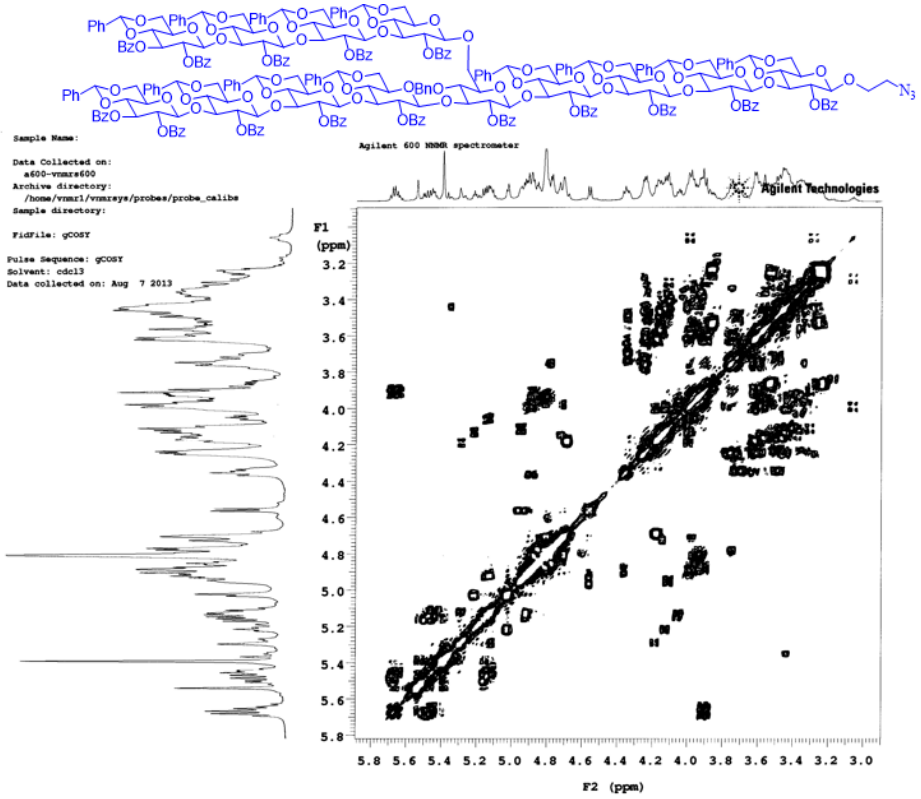
^{1}H-^{13}C HMQC Spectrum of compound **18** ($CDCl_3$, 600 MHz)



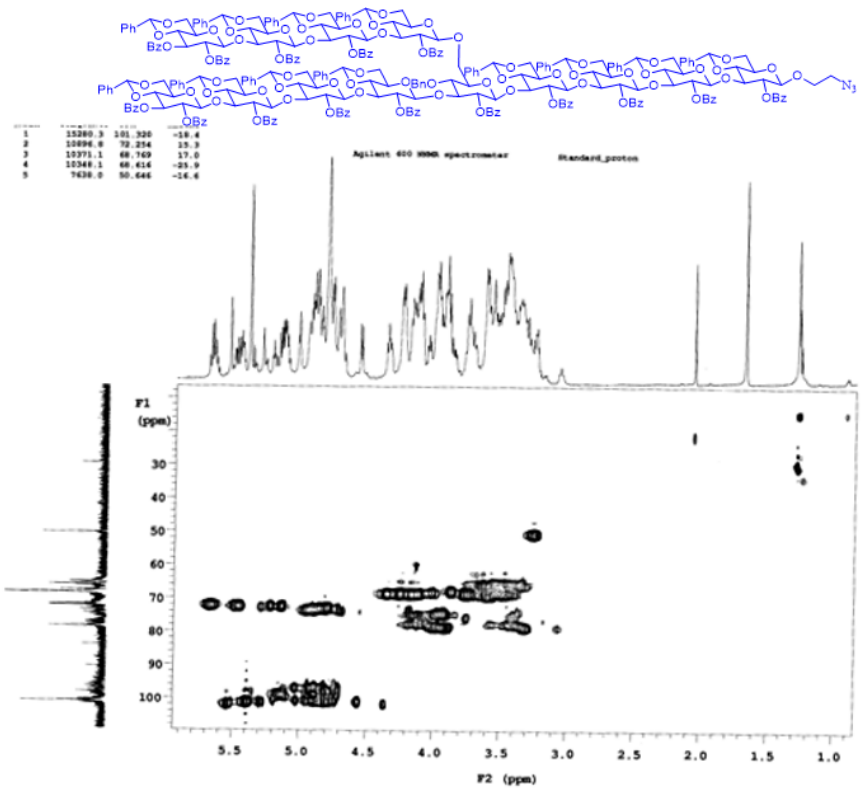
^{1}H NMR Spectrum of compound **19** ($CDCl_3$, 600 MHz)



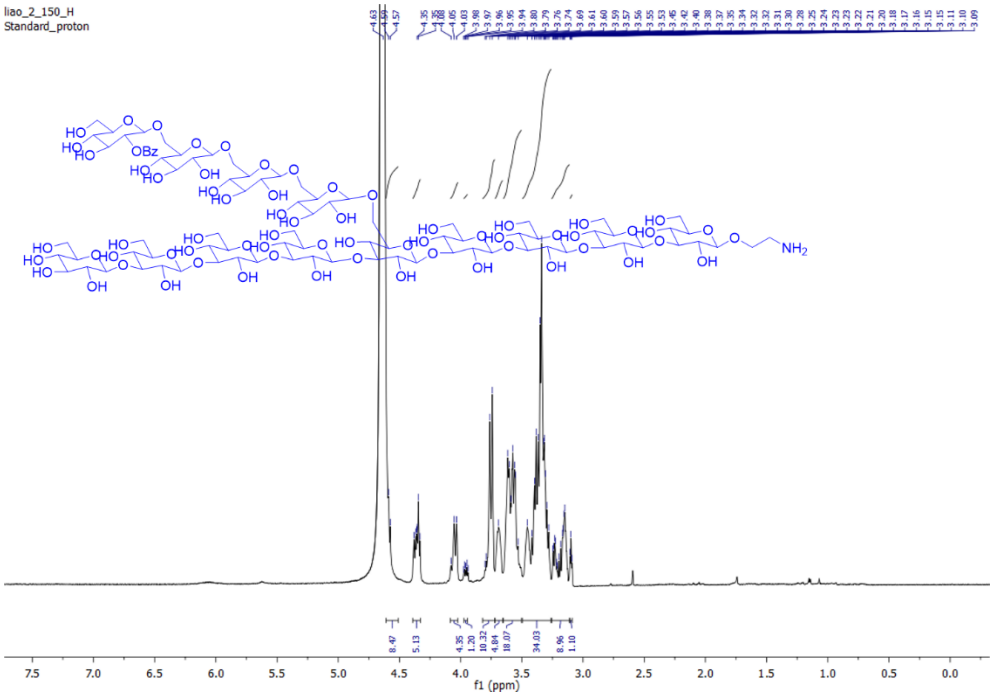
^{13}C NMR Spectrum of compound **19** ($CDCl_3$, 600 MHz)



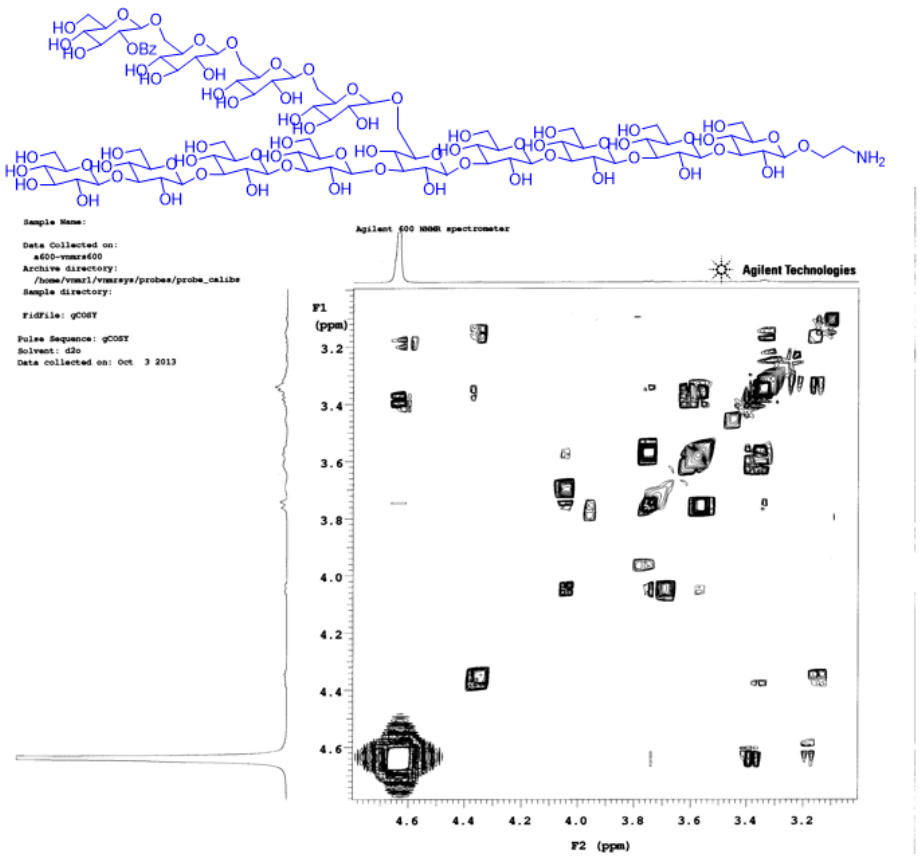
^{1}H-^{1}H COSY Spectrum of compound **19** ($CDCl_3$, 600 MHz)



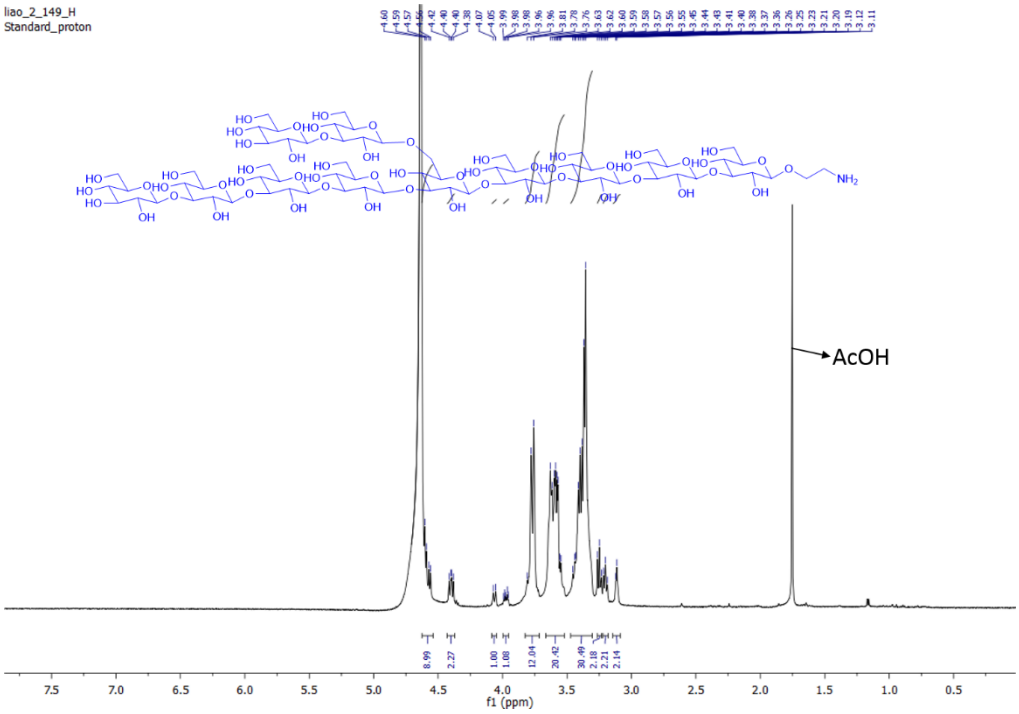
^{1}H-^{13}C HMQC Spectrum of compound **19** ($CDCl_3$, 600 MHz)



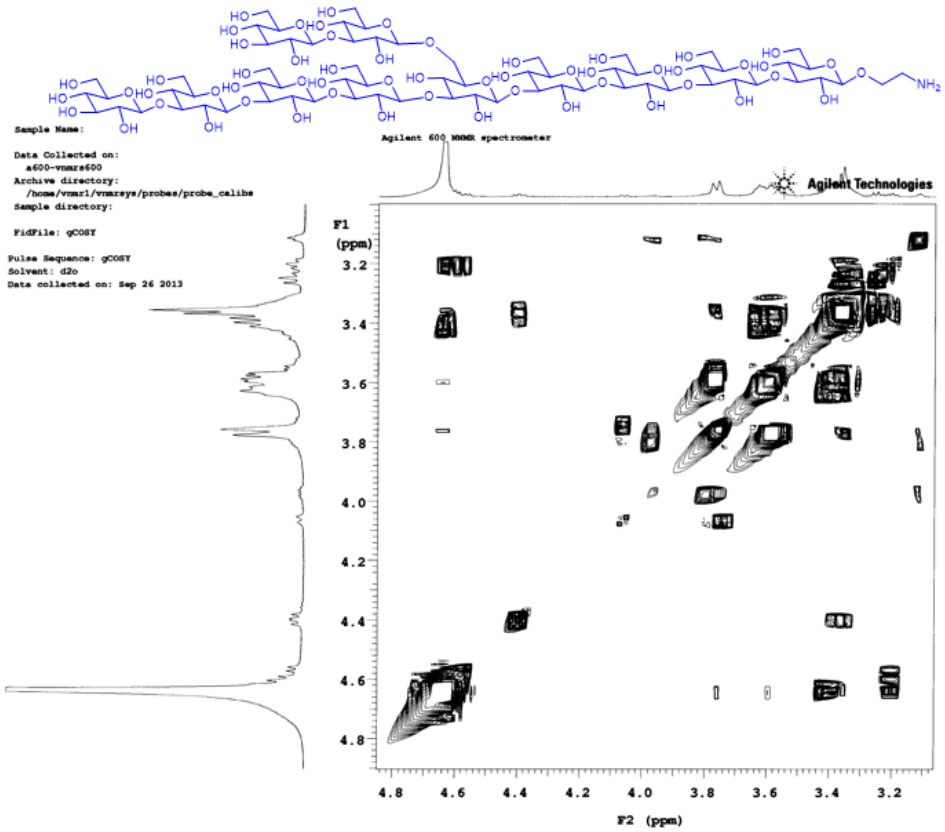
^{1}H NMR Spectrum of compound **1** (D_2O, 600 MHz)



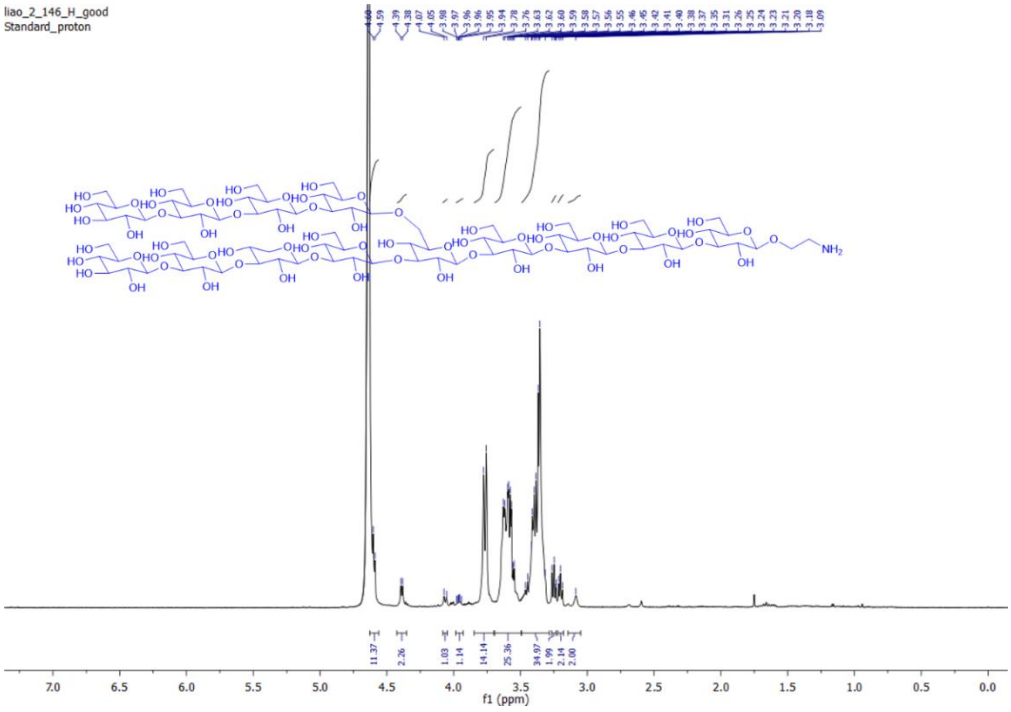
^{1}H-^{1}H COSY Spectrum of compound **1** (D_2O, 600 MHz)



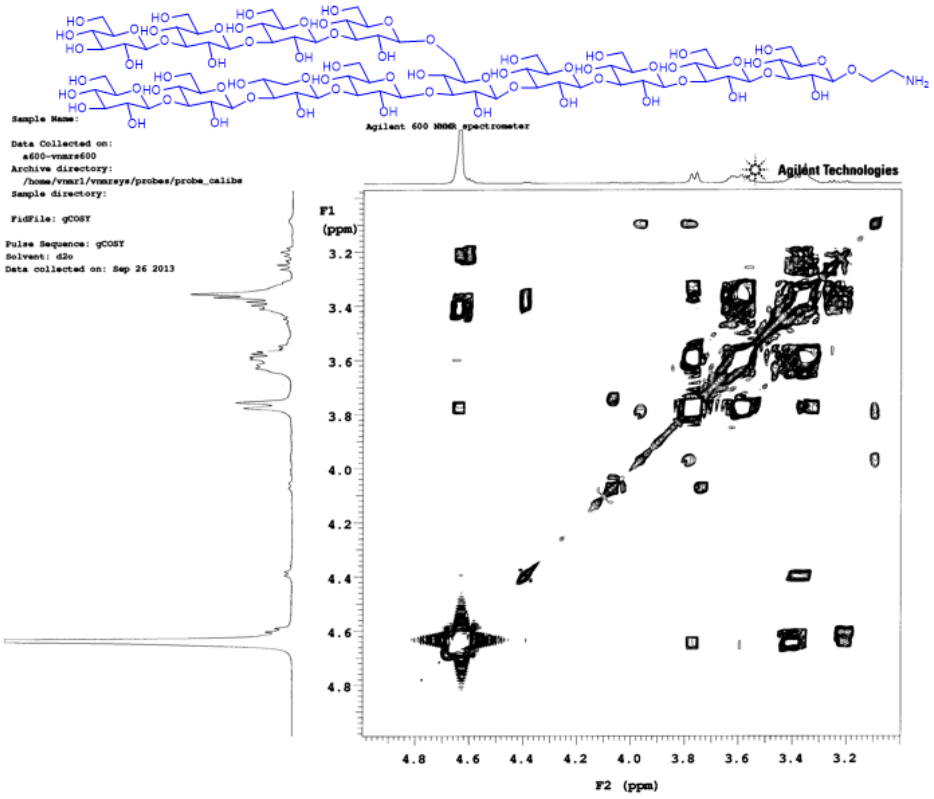
^{1}H NMR Spectrum of compound **2** (D_2O, 600 MHz)



^{1}H-^{1}H COSY Spectrum of compound **2** (D_2O, 600 MHz)



^{1}H NMR Spectrum of compound **3** (D_2O, 600 MHz)



^{1}H-^{1}H COSY Spectrum of compound **3** (D_2O, 600 MHz)