

Electronic Supporting Information

Fluorous-Tag Assisted Synthesis of Bile Acid-Bisphosphonate Conjugates via Orthogonal Click Reactions: An Access to Potential Anti-Resorption Bone Drugs

Chiara Massarenti,^a Olga Bortolini,^a Giancarlo Fantin,^a Dario Cristofaro,^a Daniele Ragno,^a Daniela Perrone,*^a Elena Marchesi,^a Gianluca Toniolo^b and Alessandro Massi*^a

[^a] *Dipartimento di Scienze Chimiche e Farmaceutiche, Università di Ferrara, Via Fossato di Mortara 17, I-44121 Ferrara (Italy)*

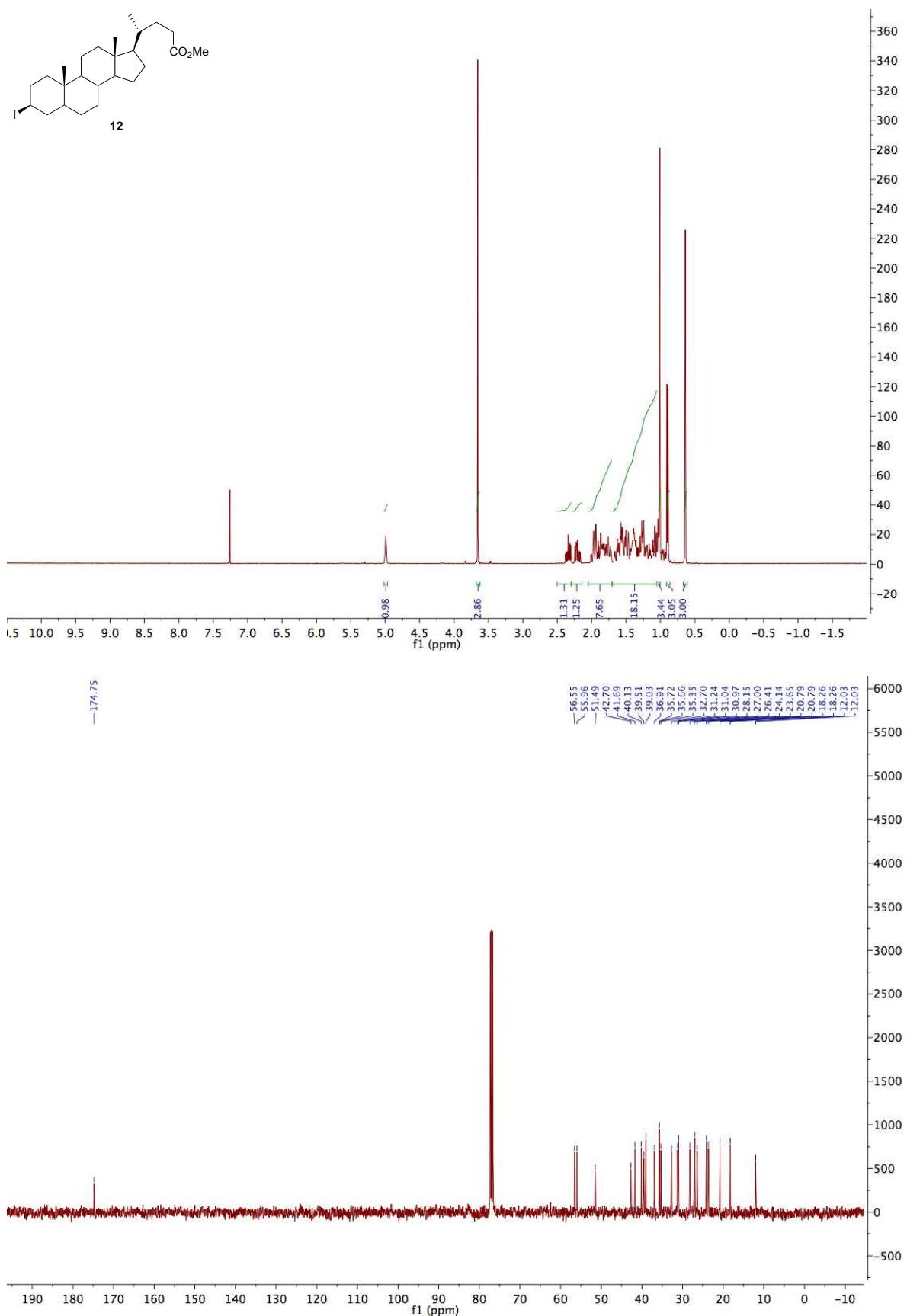
[^b] *Institute of Nanoscience and Nanotechnology NCSR “Demokritos” 153 10 Aghia Paraskevi, Attiki (Greece)*

alessandro.massi@unife.it; daniela.perrone@unife.it

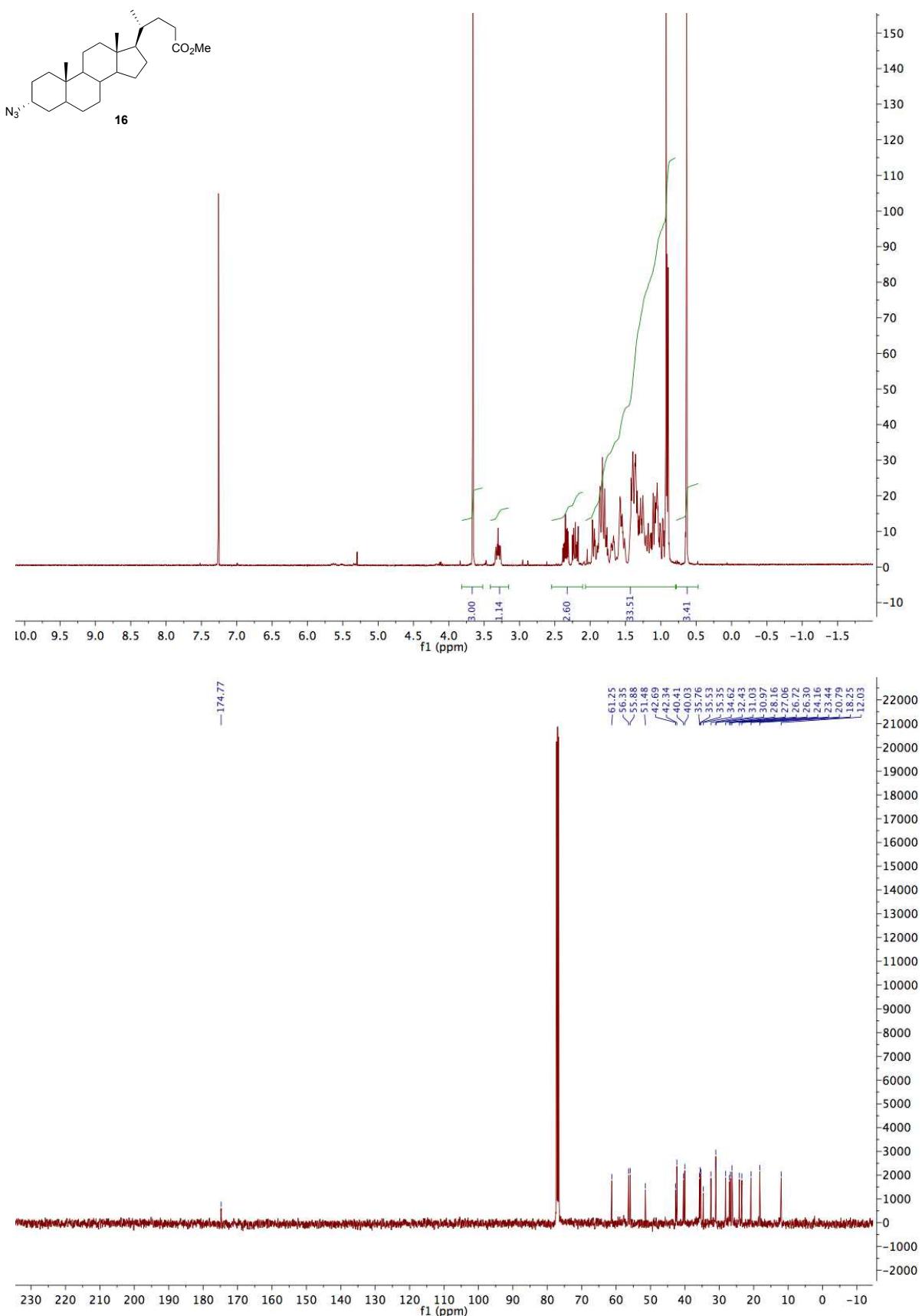
Table of Contents

NMR spectra	S2
-------------	----

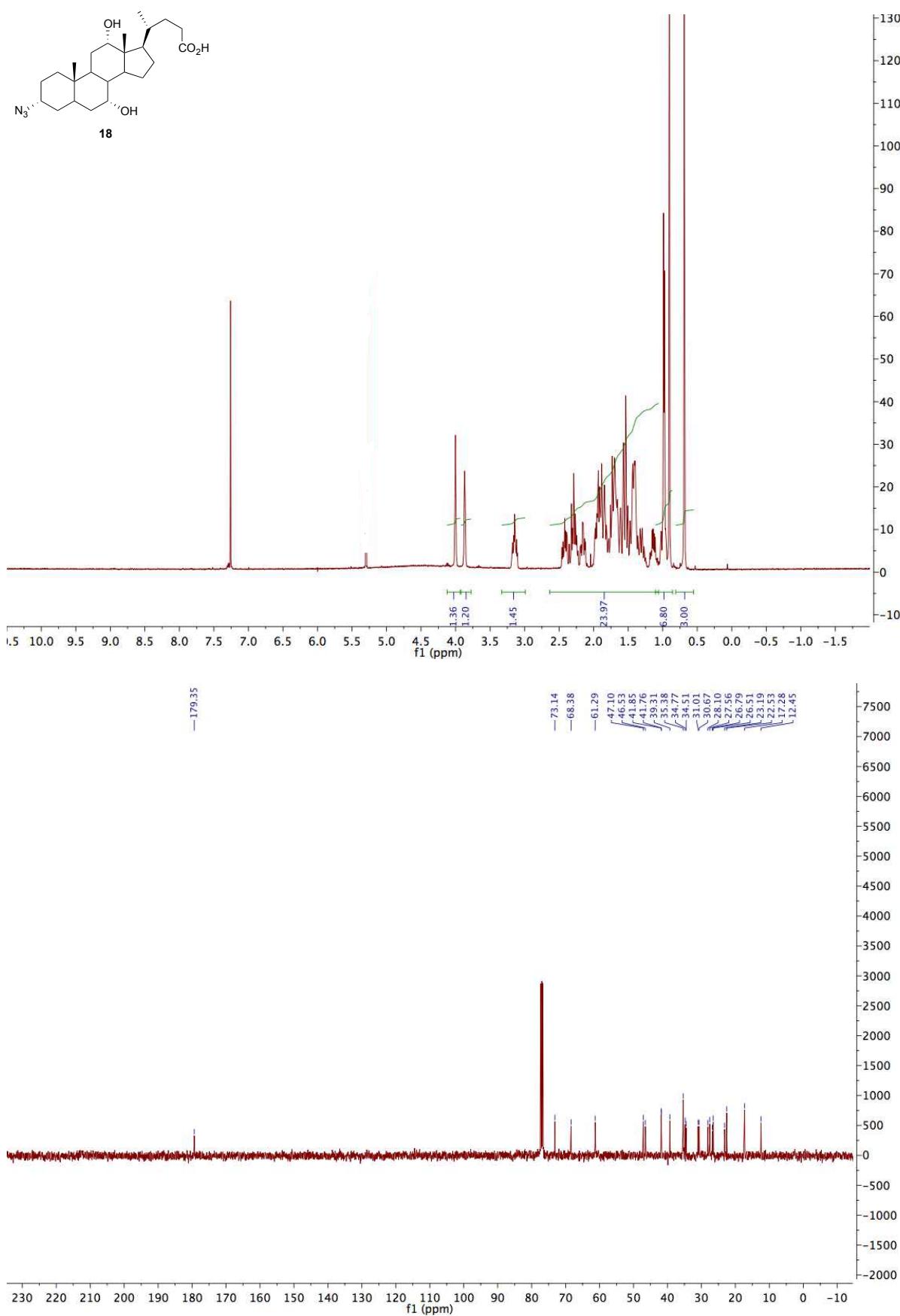
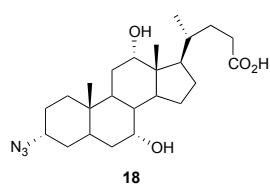
¹H (300 MHz) and ¹³C (75 MHz) spectra (CDCl₃) of 12



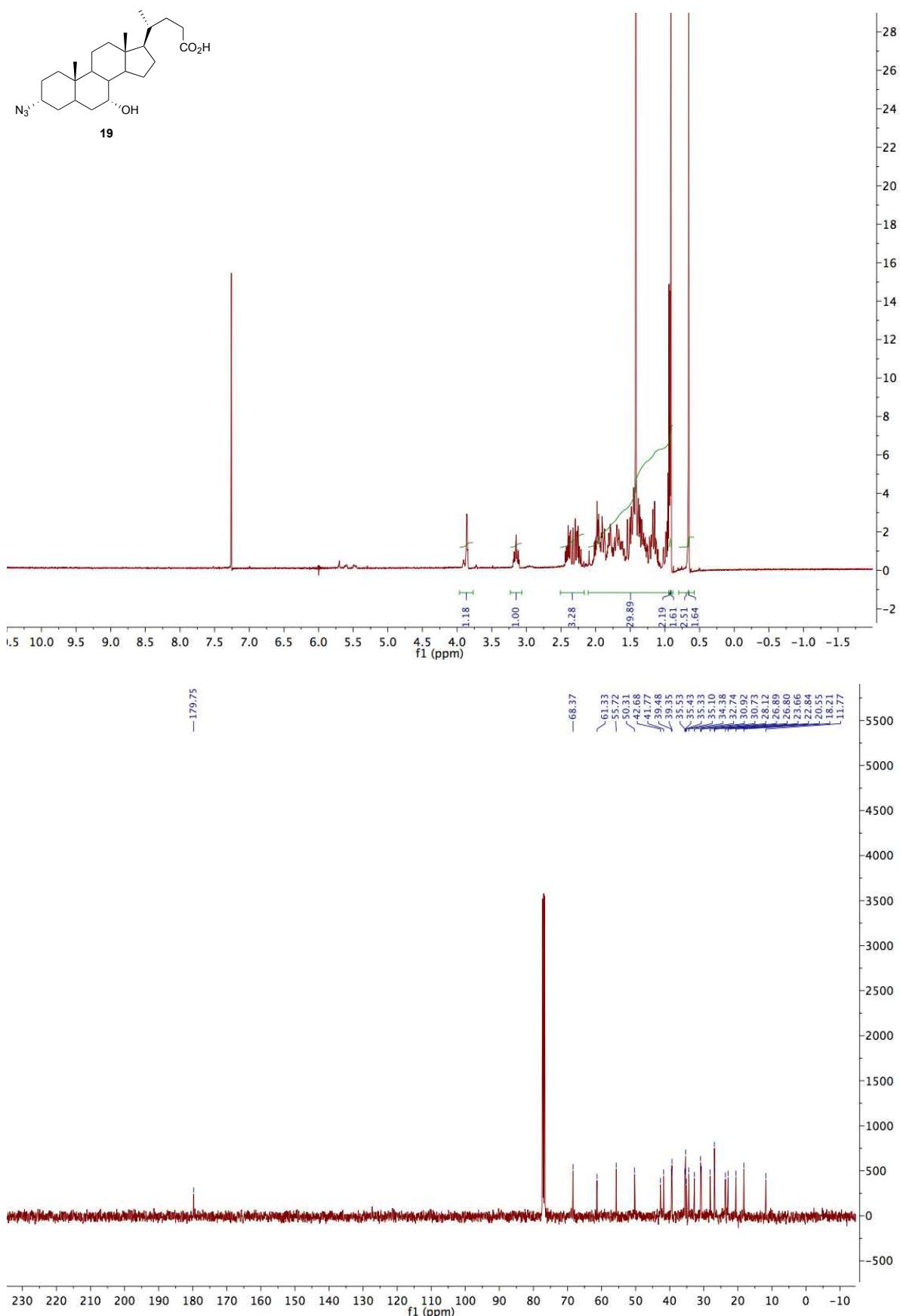
¹H (300 MHz) and ¹³C (75 MHz) spectra (CDCl₃) of 16



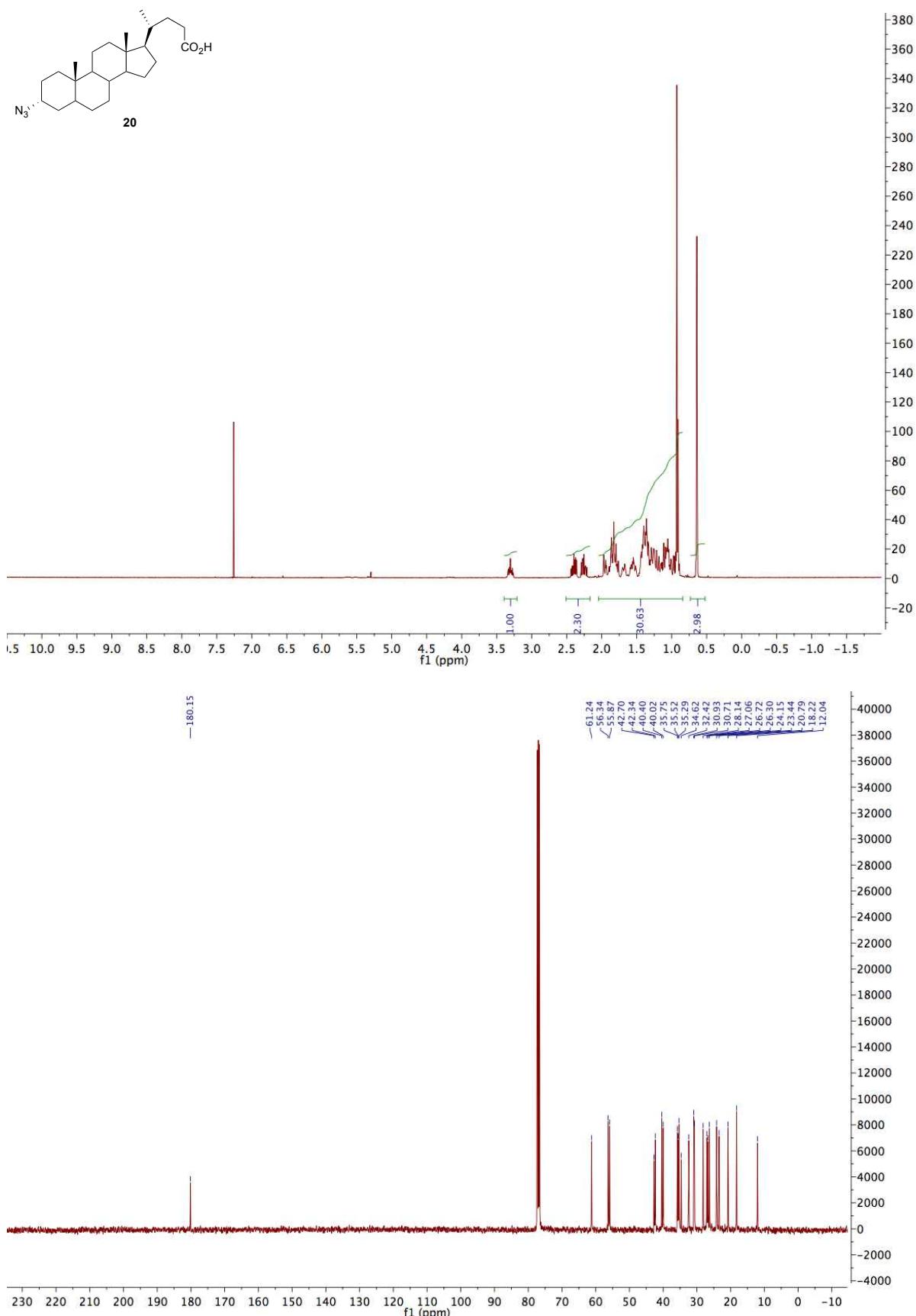
¹H (300 MHz) and ¹³C (75 MHz) spectra (CDCl₃) of 18



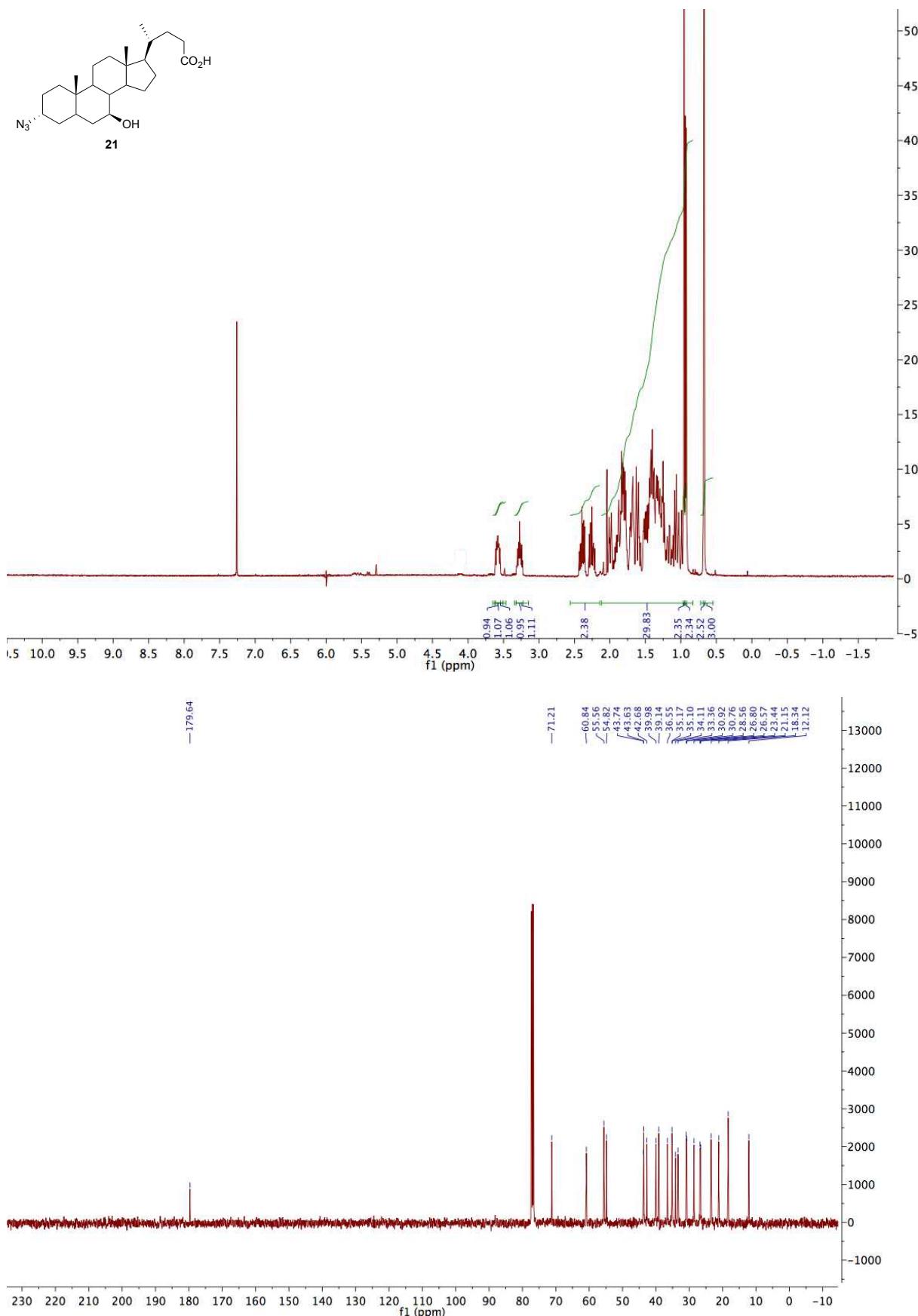
¹H (300 MHz) and ¹³C (75 MHz) spectra (CDCl₃) of 19



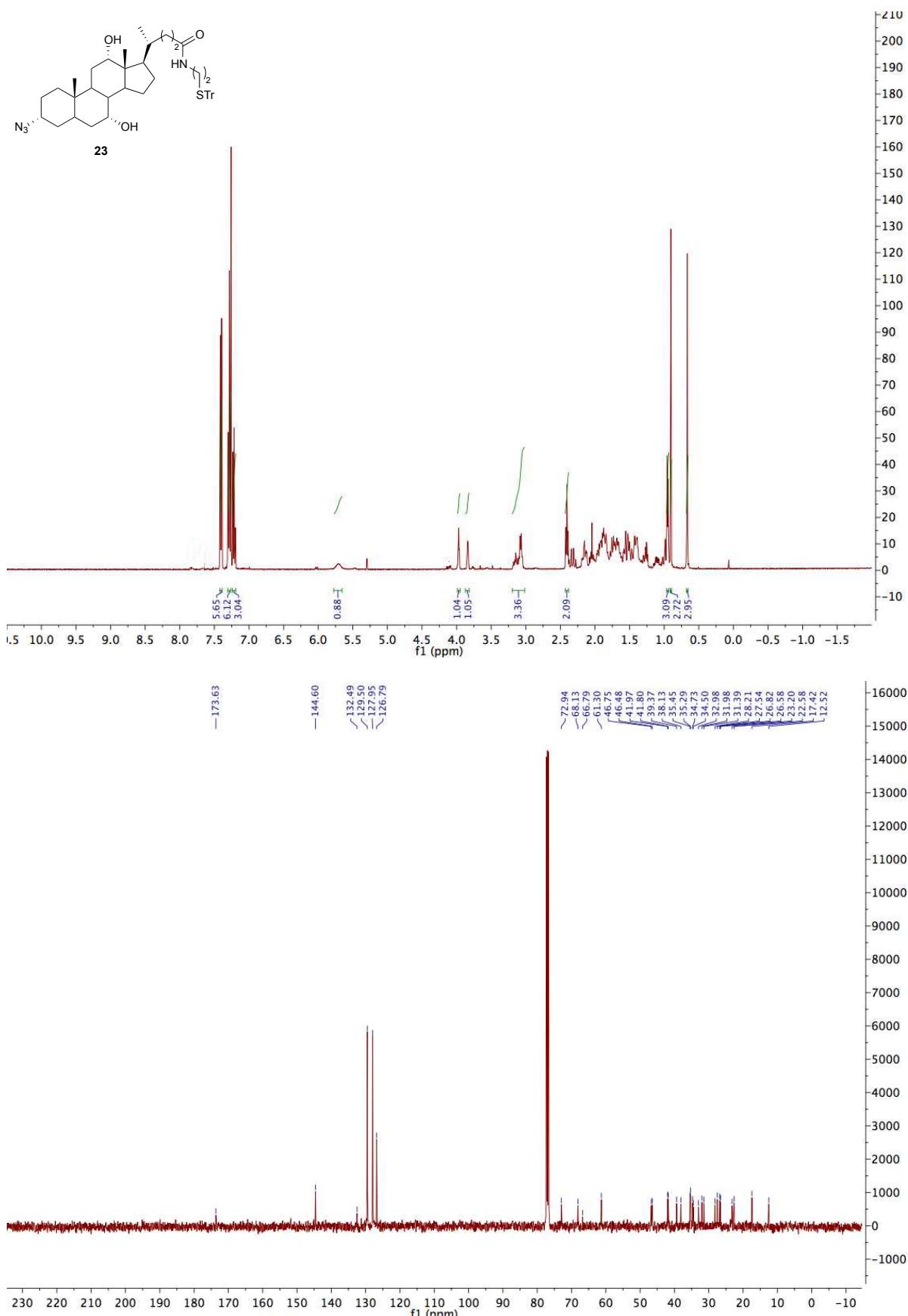
¹H (300 MHz) and ¹³C (75 MHz) spectra (CDCl₃) of 20



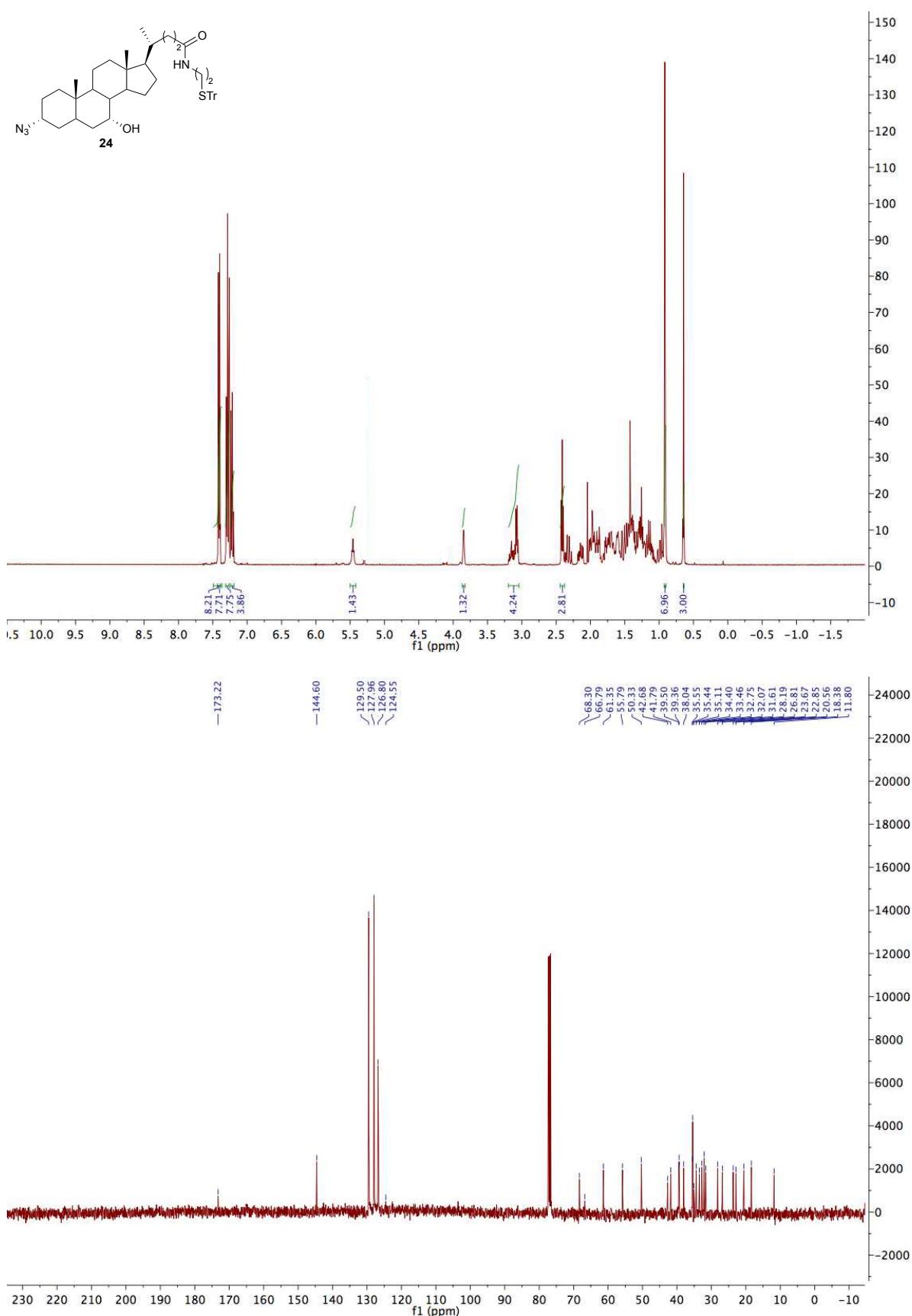
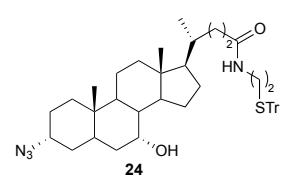
¹H (300 MHz) and ¹³C (75 MHz) spectra (CDCl₃) of 21



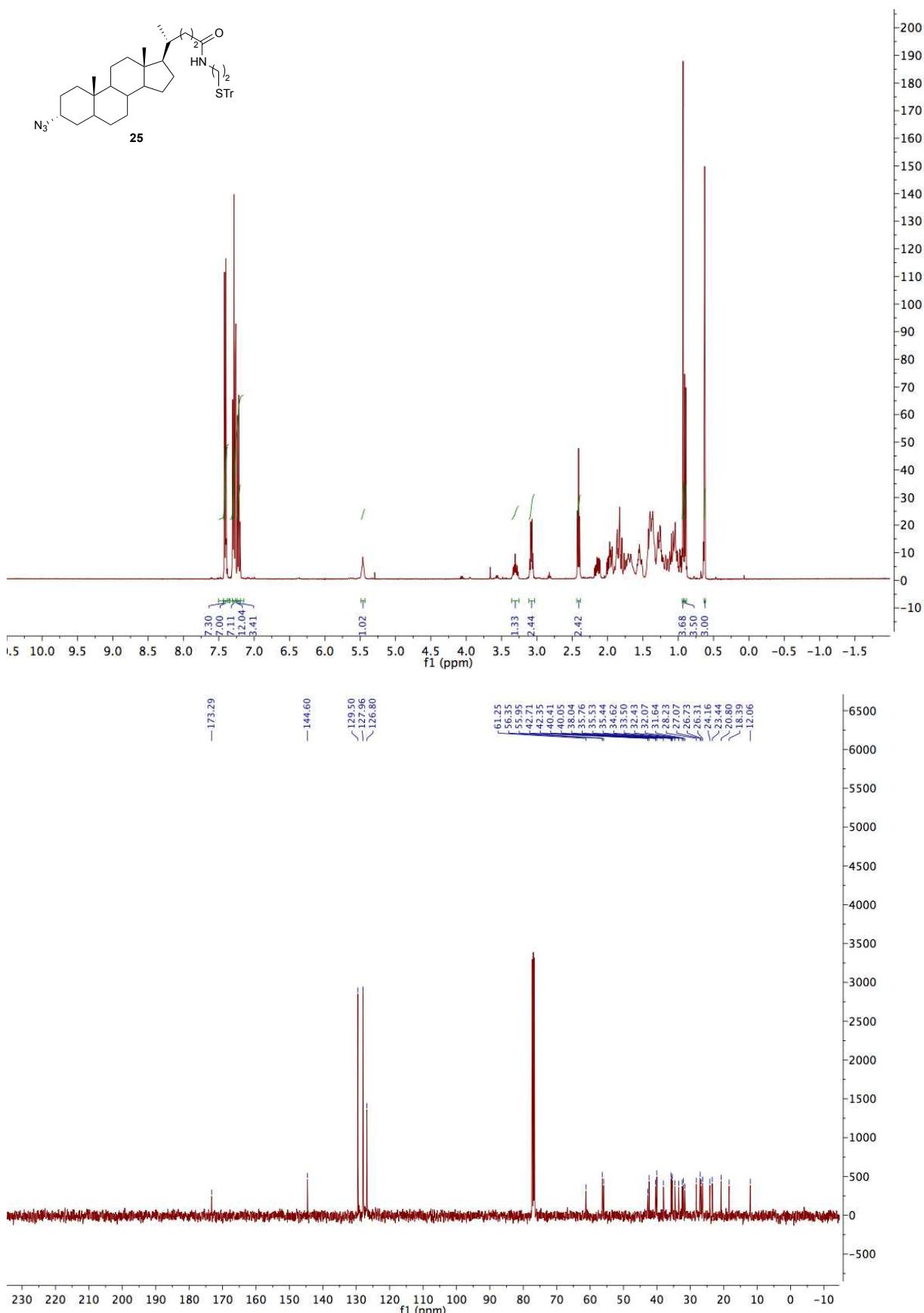
¹H (300 MHz) and ¹³C (75 MHz) spectra (CDCl₃) of 23



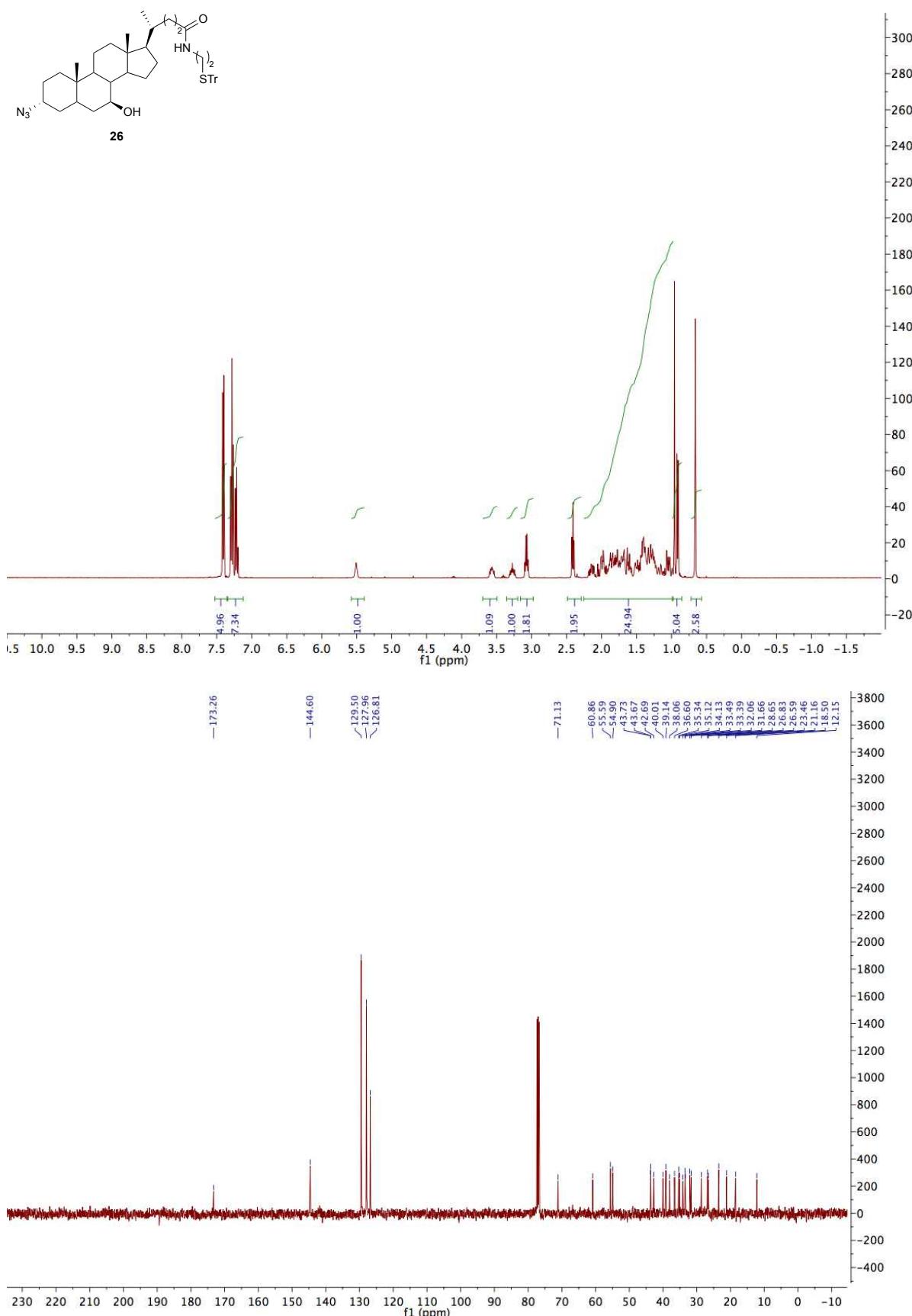
¹H (300 MHz) and ¹³C (75 MHz) spectra (CDCl₃) of 24



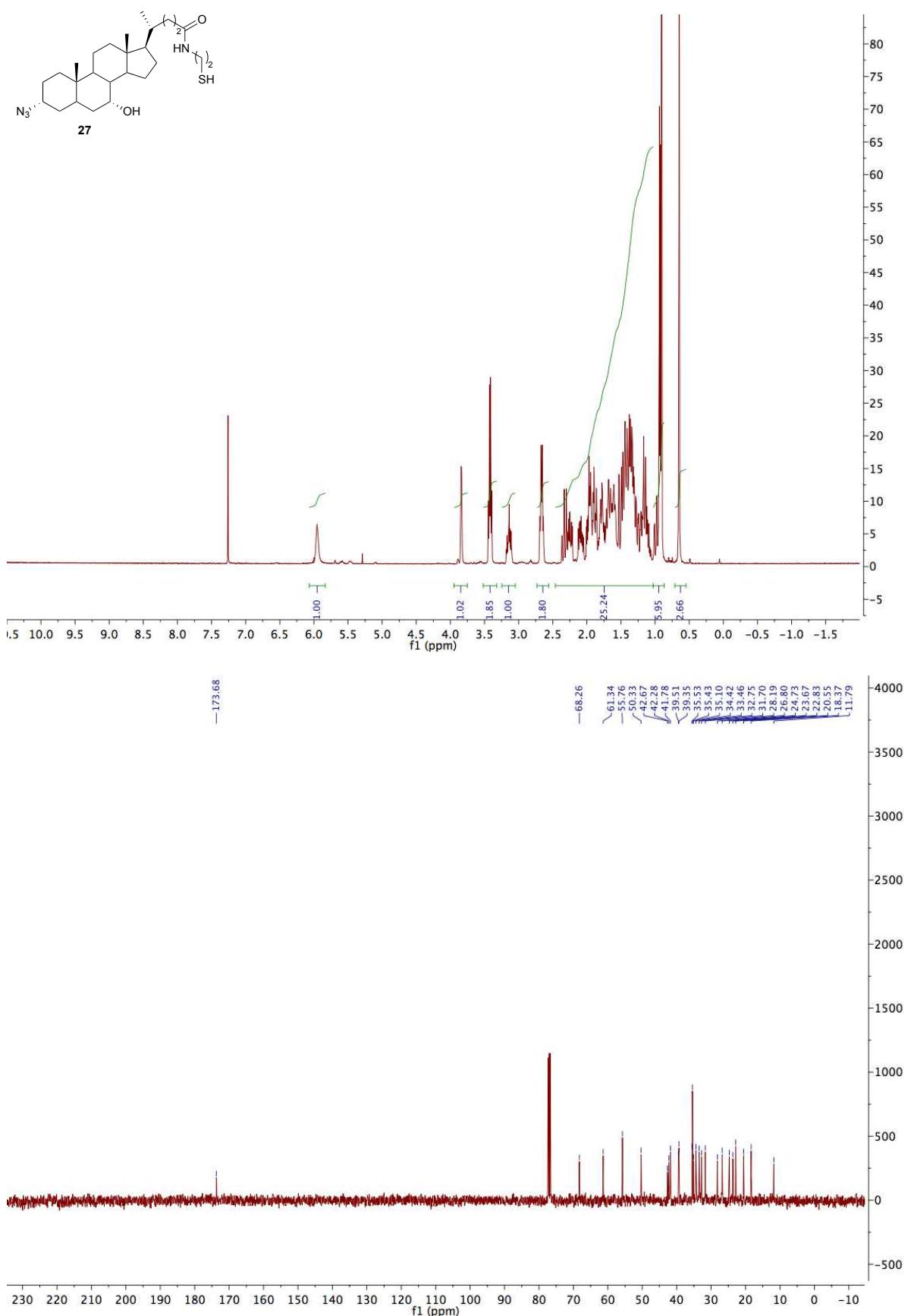
¹H (300 MHz) and ¹³C (75 MHz) spectra (CDCl₃) of 25



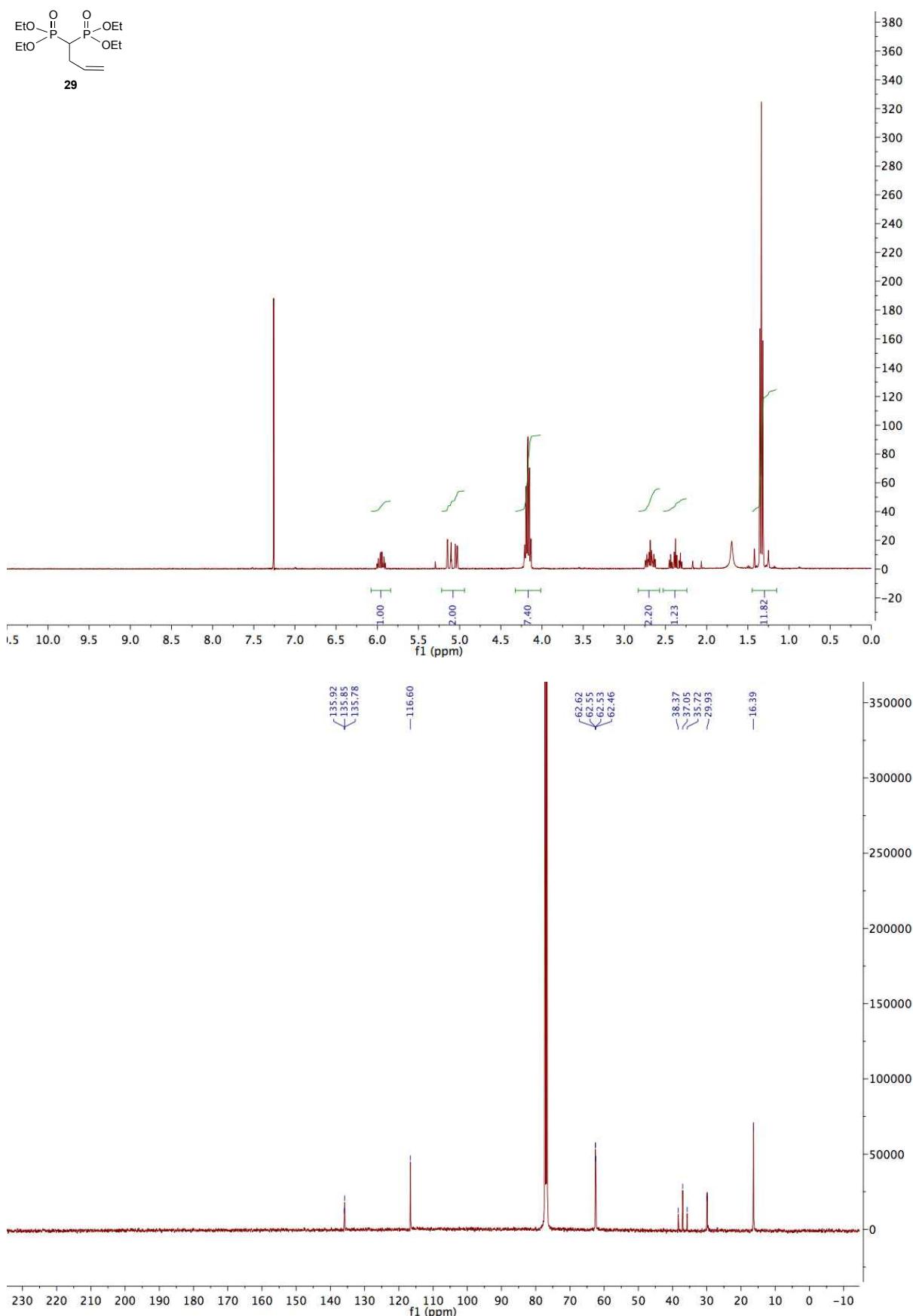
¹H (300 MHz) and ¹³C (75 MHz) spectra (CDCl₃) of 26

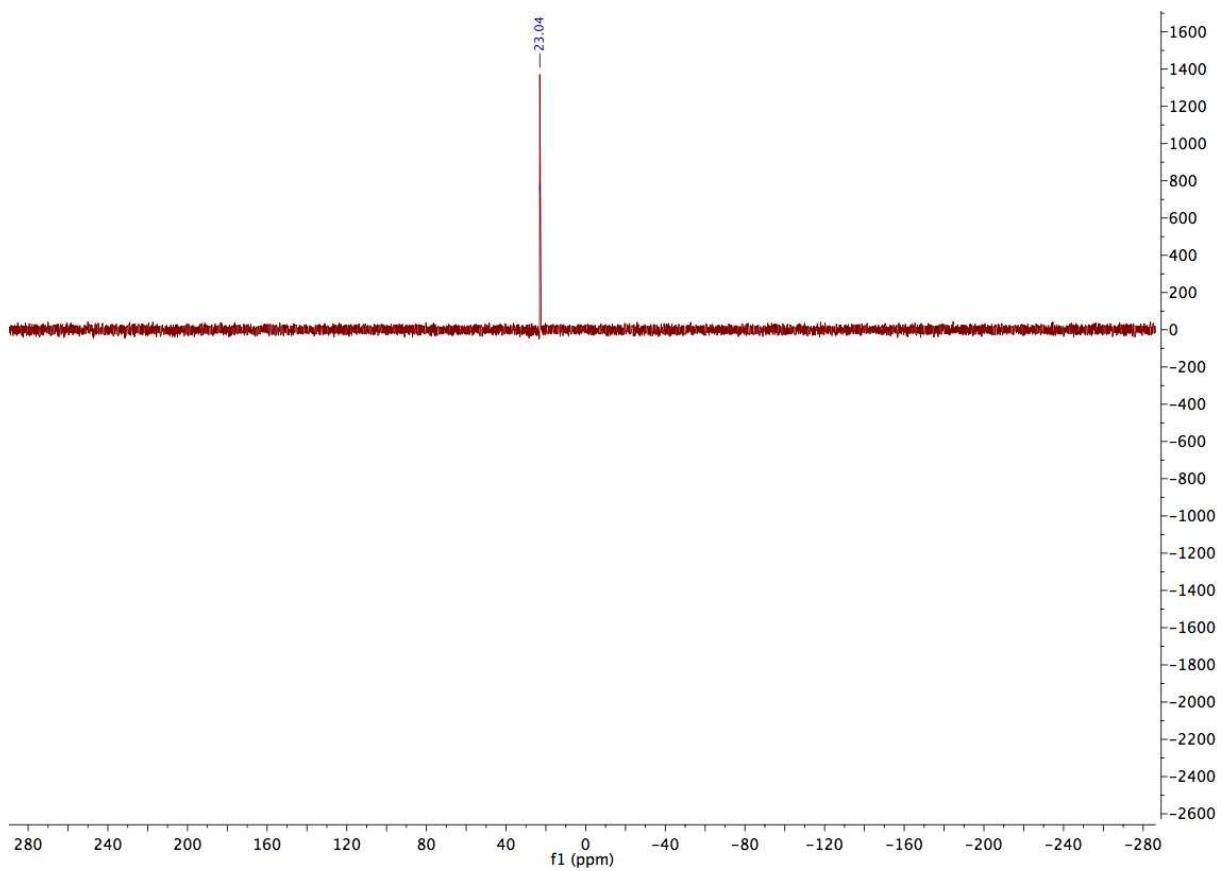


¹H (300 MHz) and ¹³C (75 MHz) spectra (CDCl₃) of 27

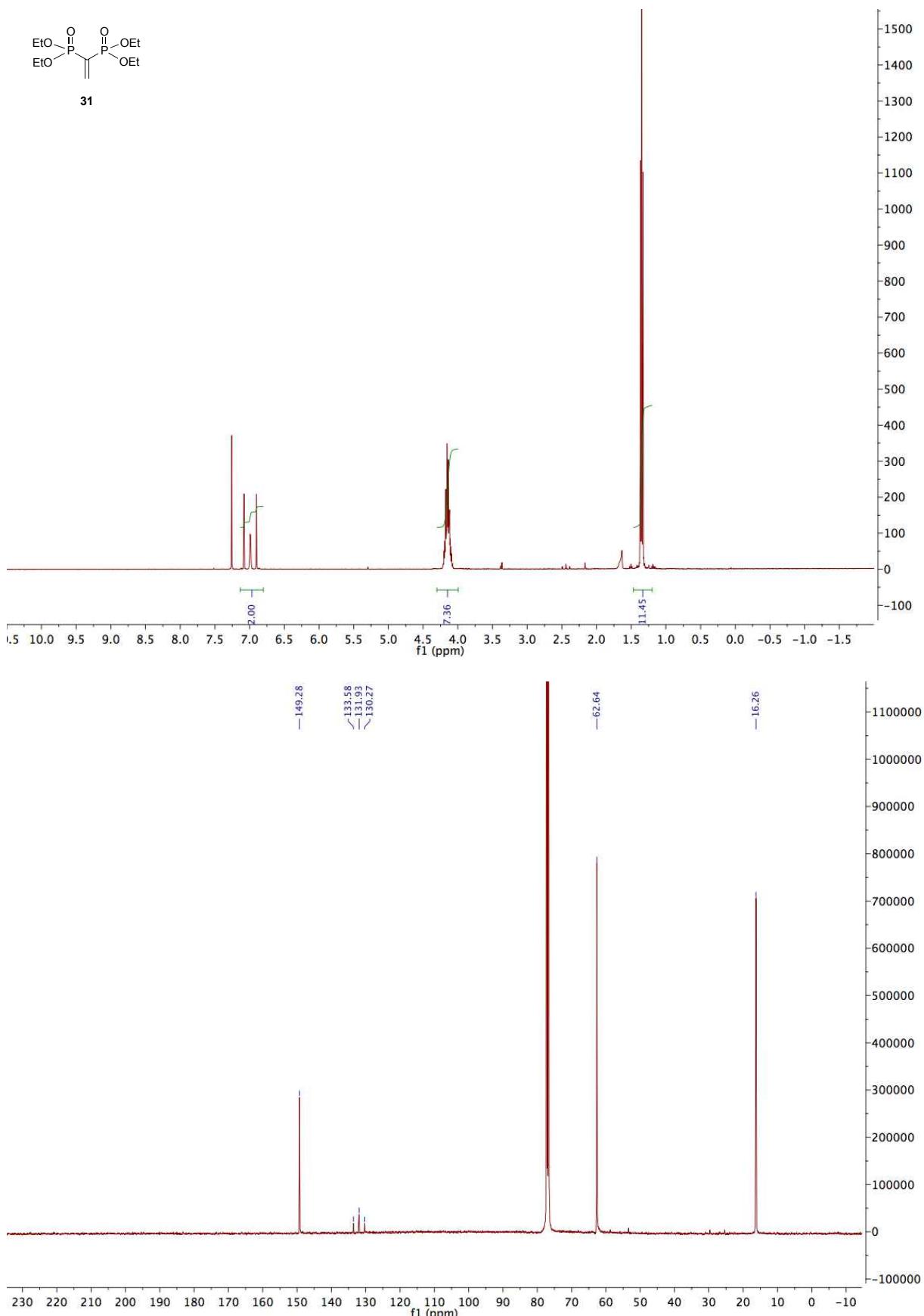


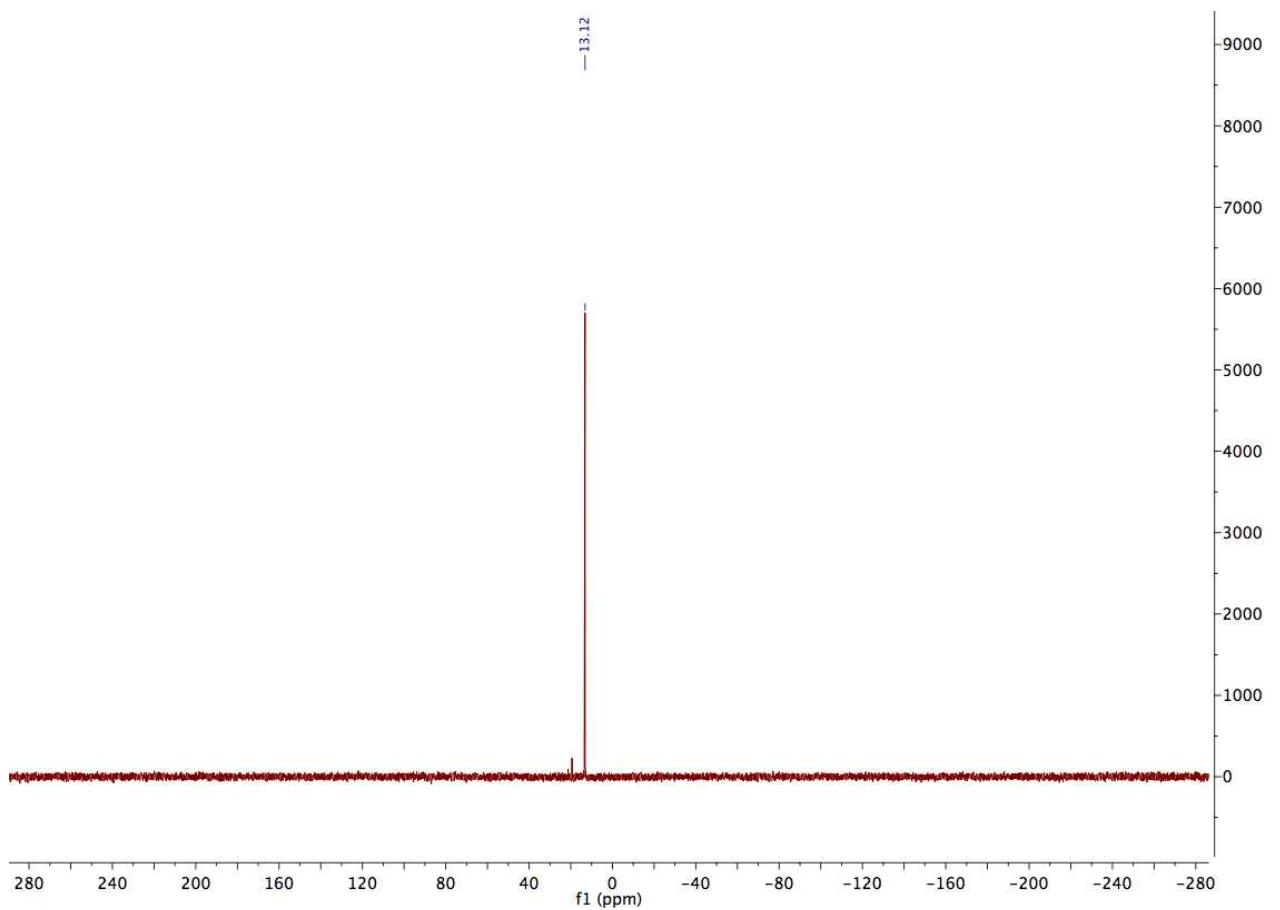
¹H (300 MHz), ¹³C (75 MHz), and ³¹P (121 MHz) spectra (CDCl₃) of 29



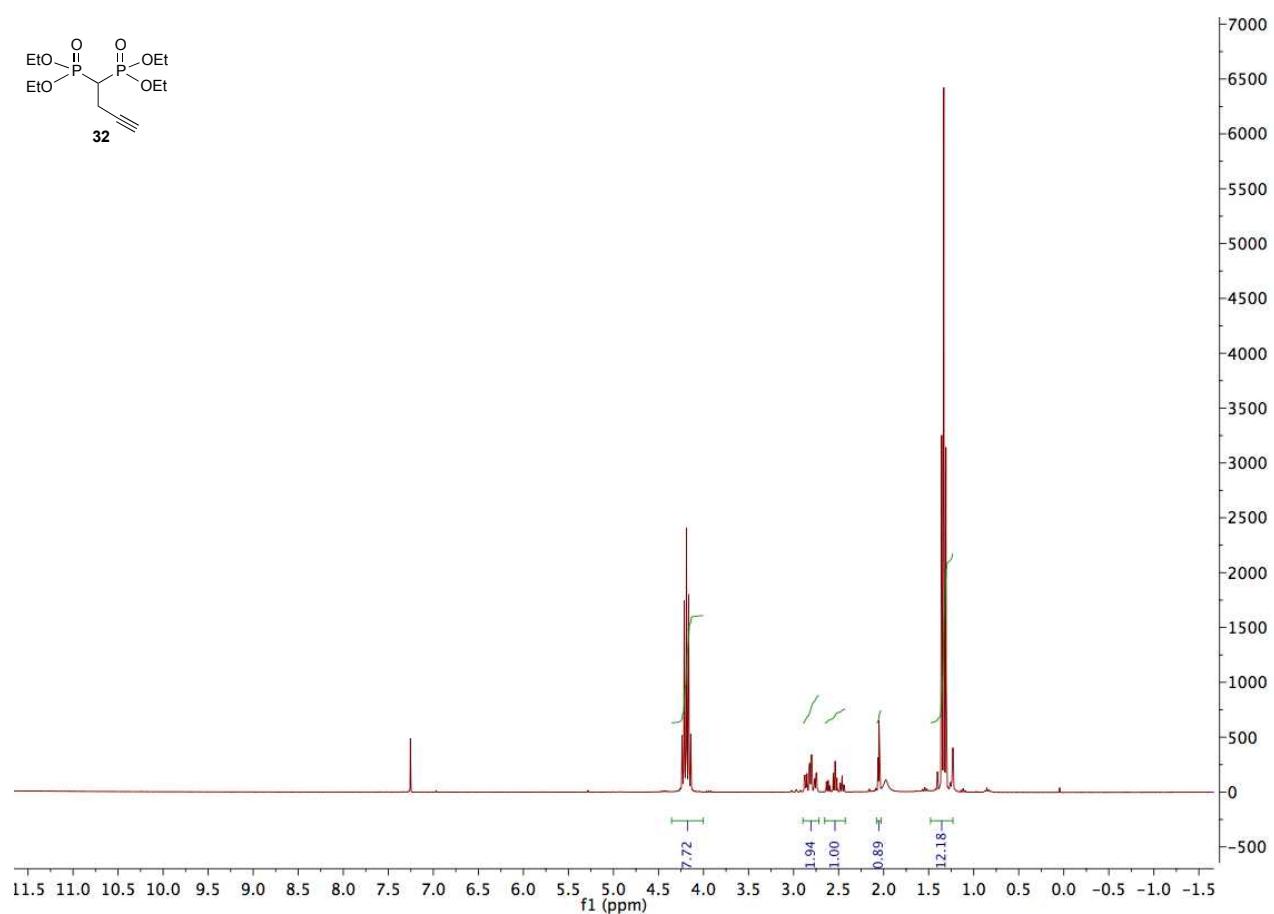


¹H (300 MHz), ¹³C (75 MHz), and ³¹P (121 MHz) spectra (CDCl₃) of 31

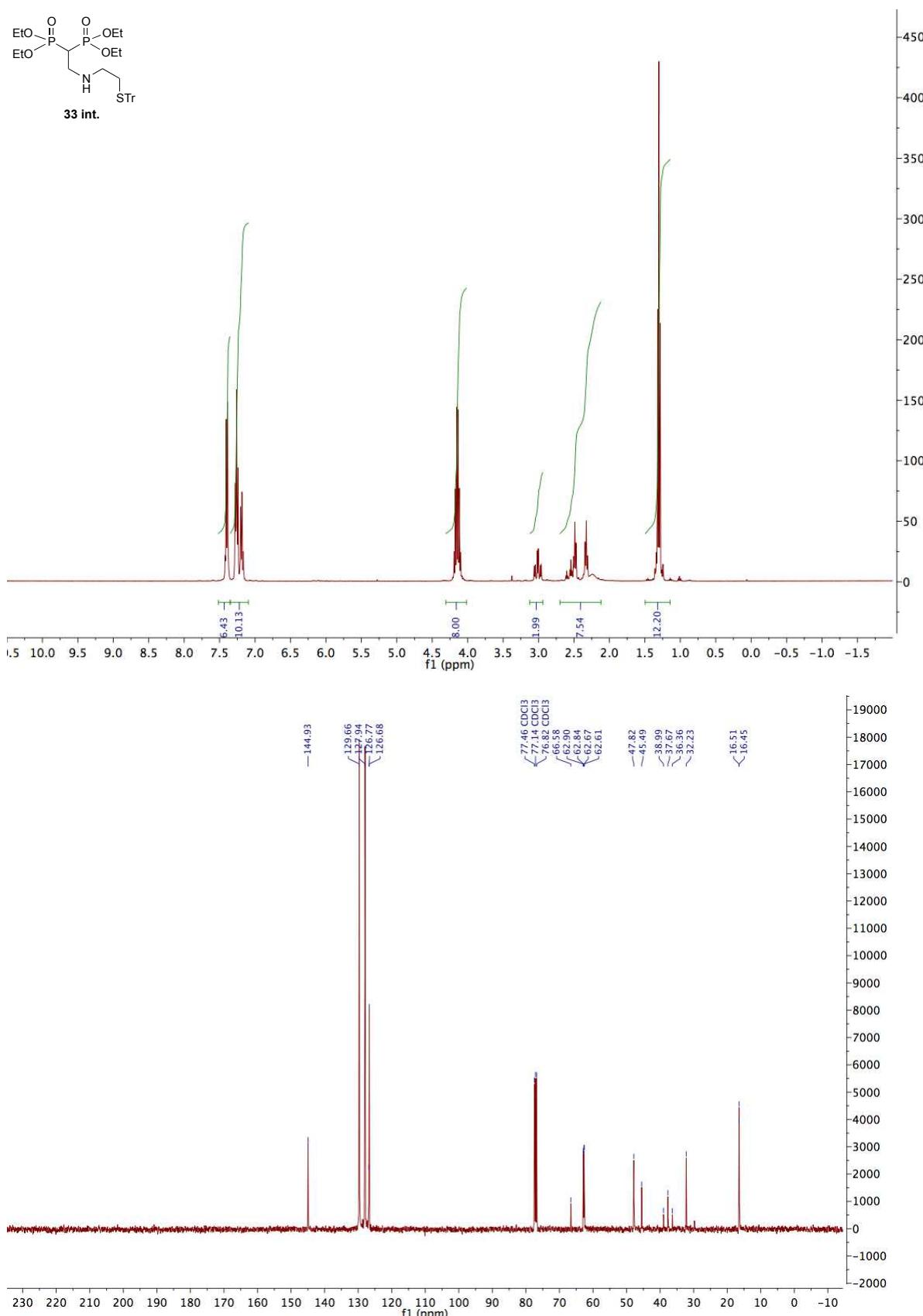


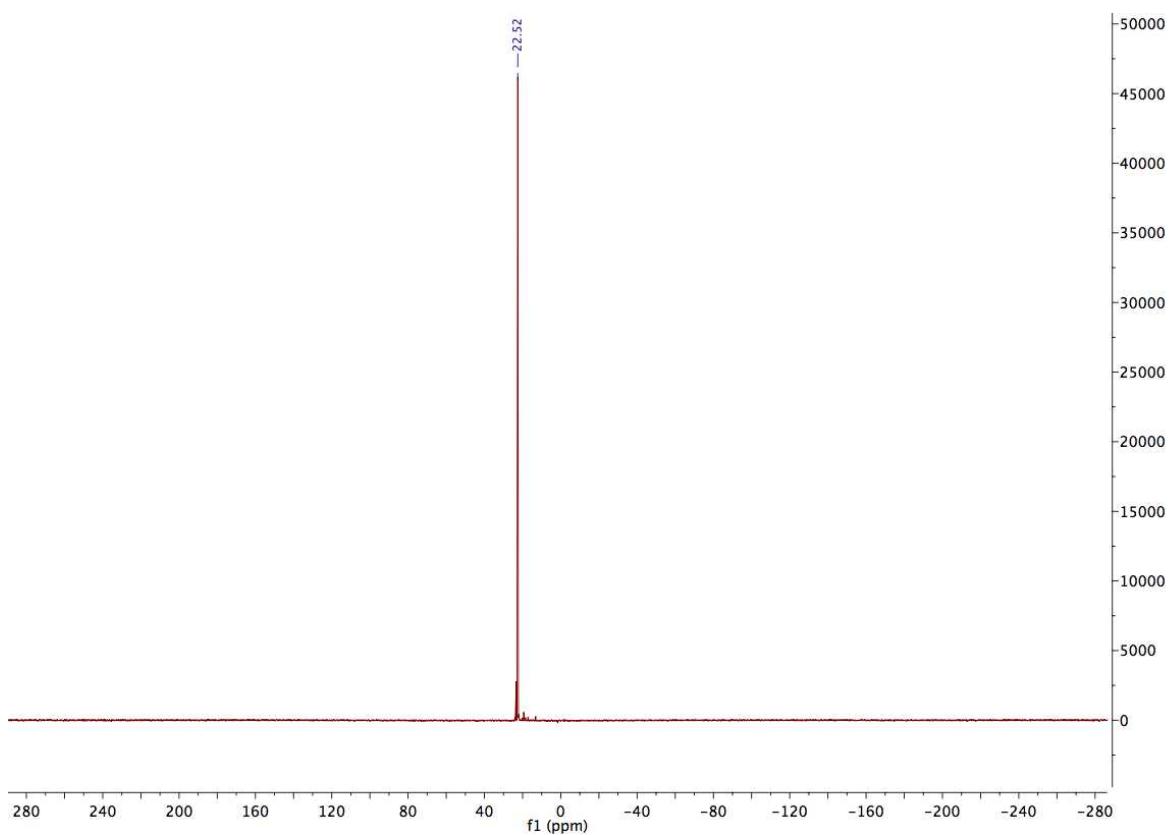


¹H (300 MHz) spectrum of 32

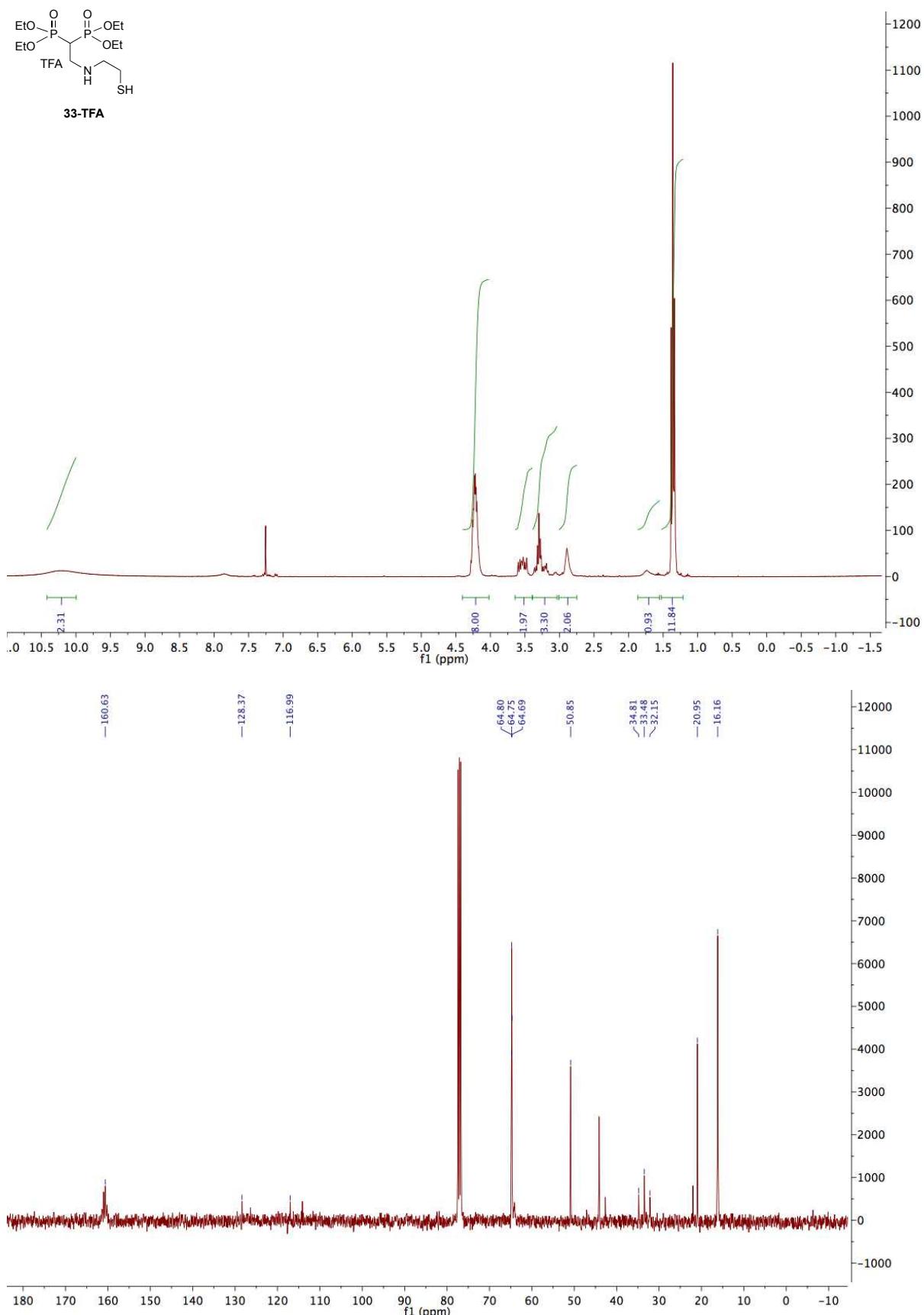


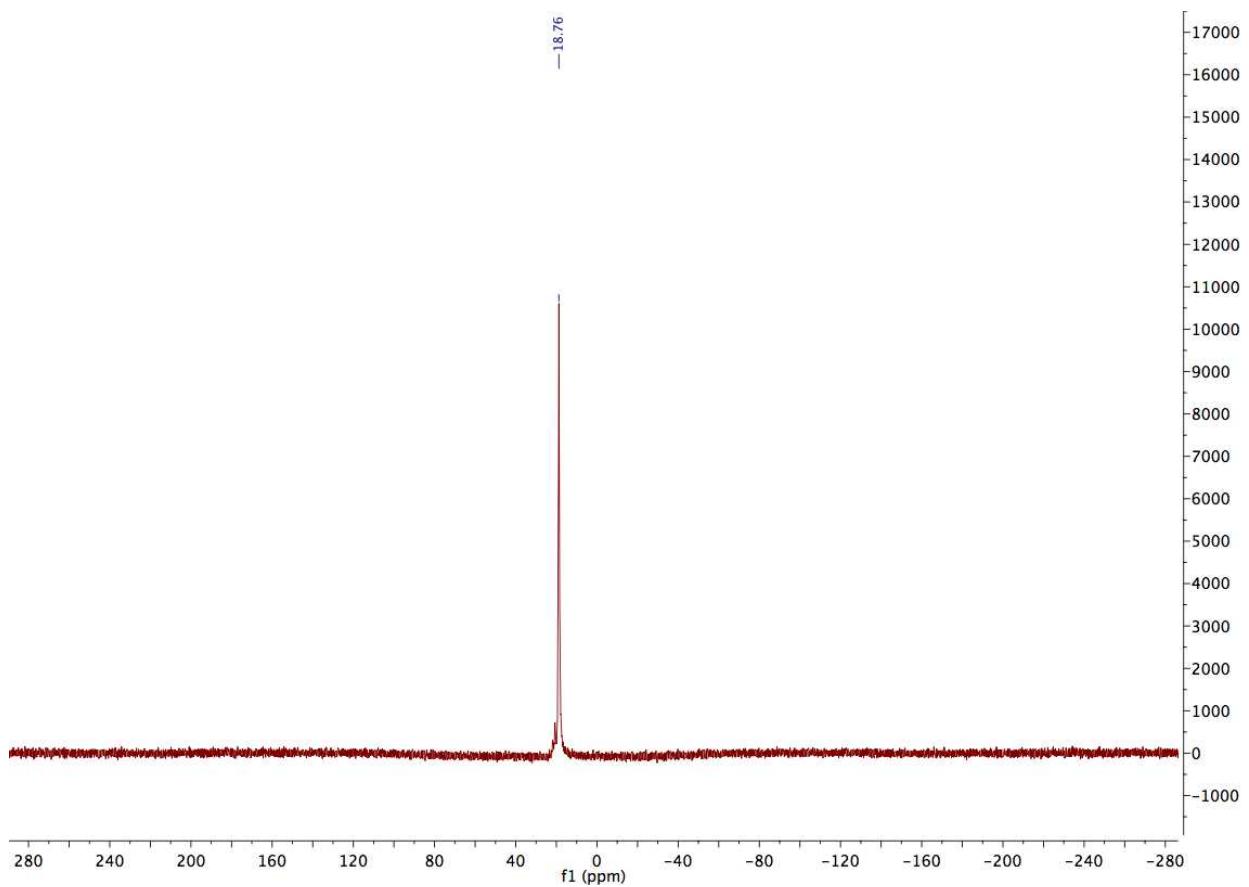
¹H (300 MHz), ¹³C (75 MHz), and ³¹P (121 MHz) spectra (CDCl₃) of the intermediate toward 33



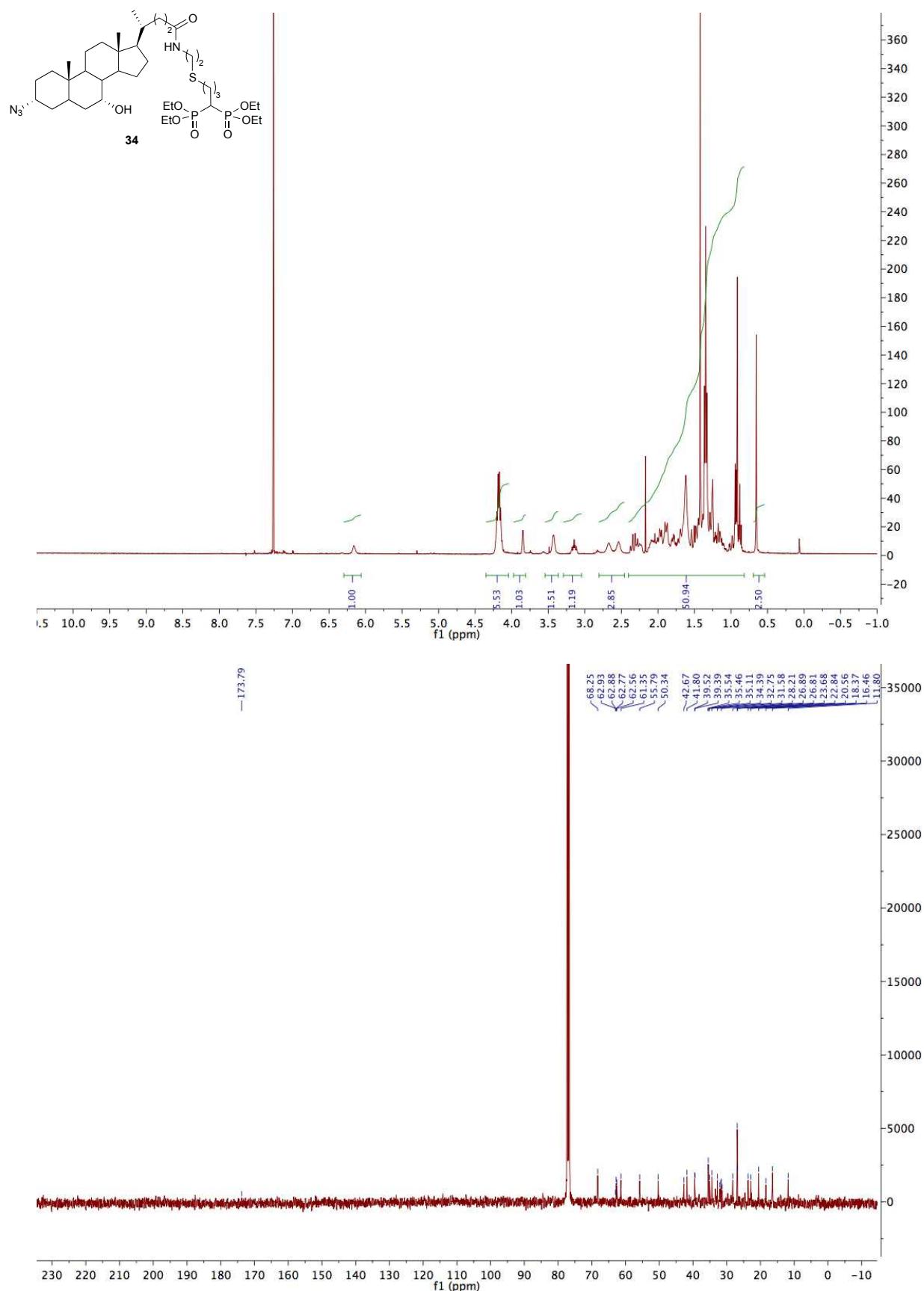


¹H (300 MHz), ¹³C (75 MHz), and ³¹P (121 MHz) spectra (CDCl₃) of 33-TFA

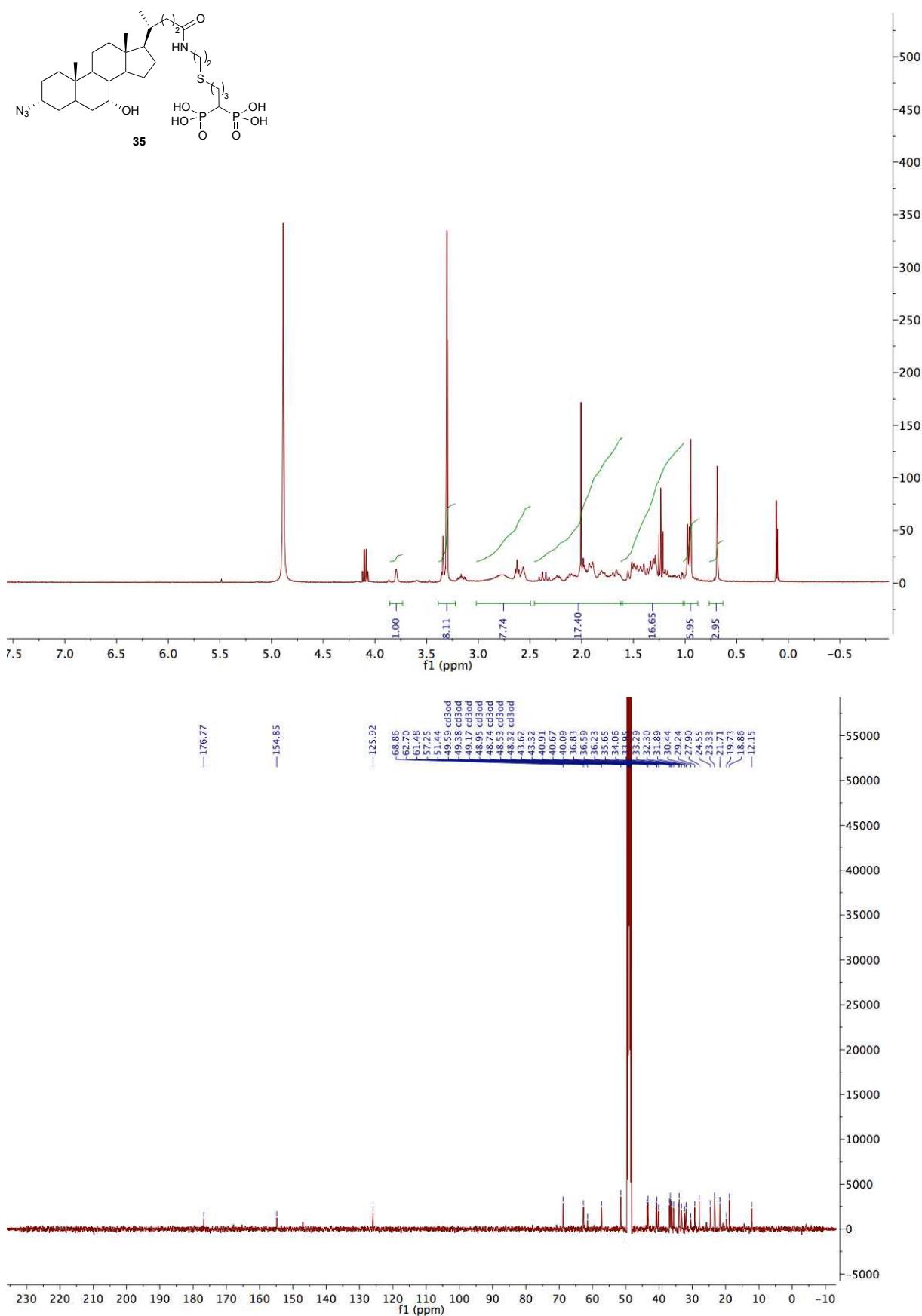
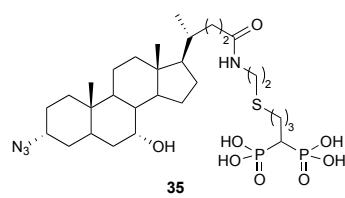


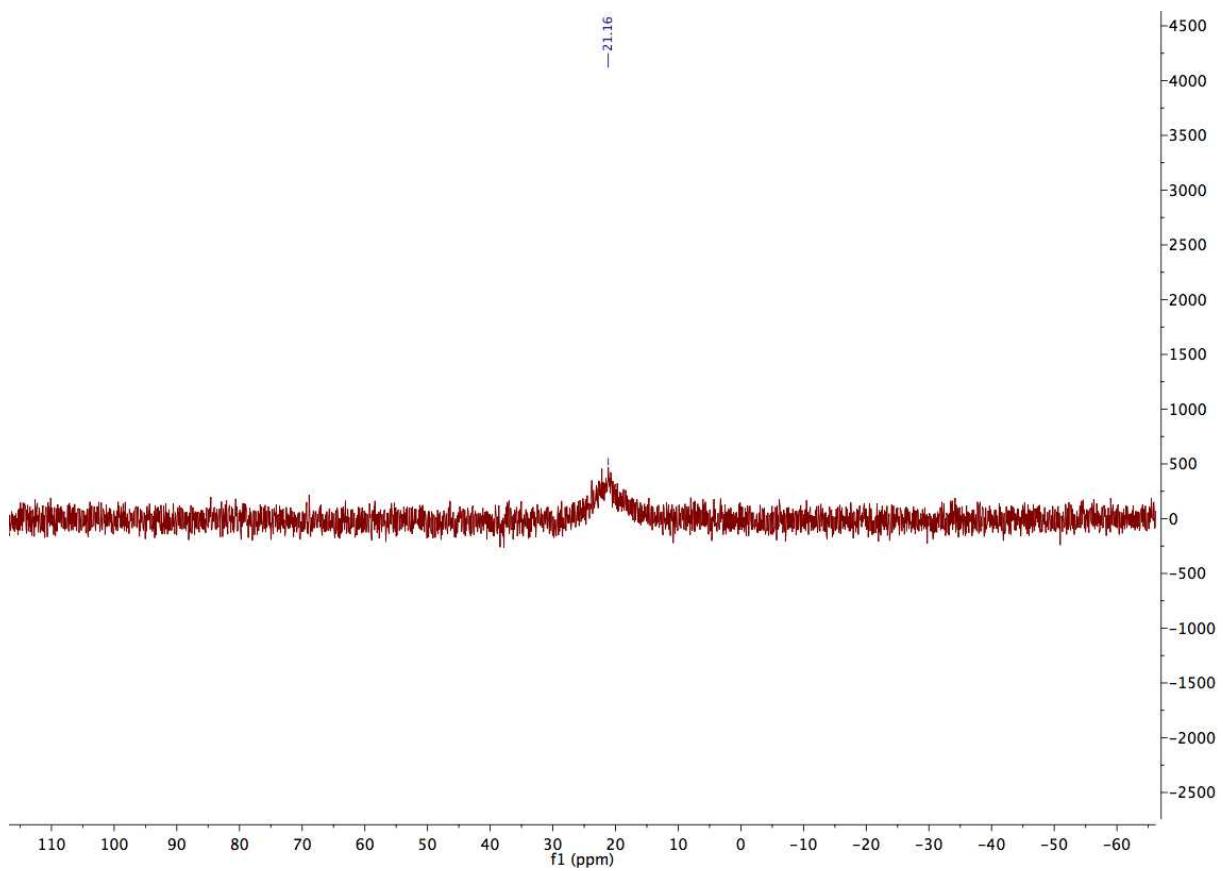


¹H (300 MHz) and ¹³C (75 MHz) spectra (CDCl₃) of 34

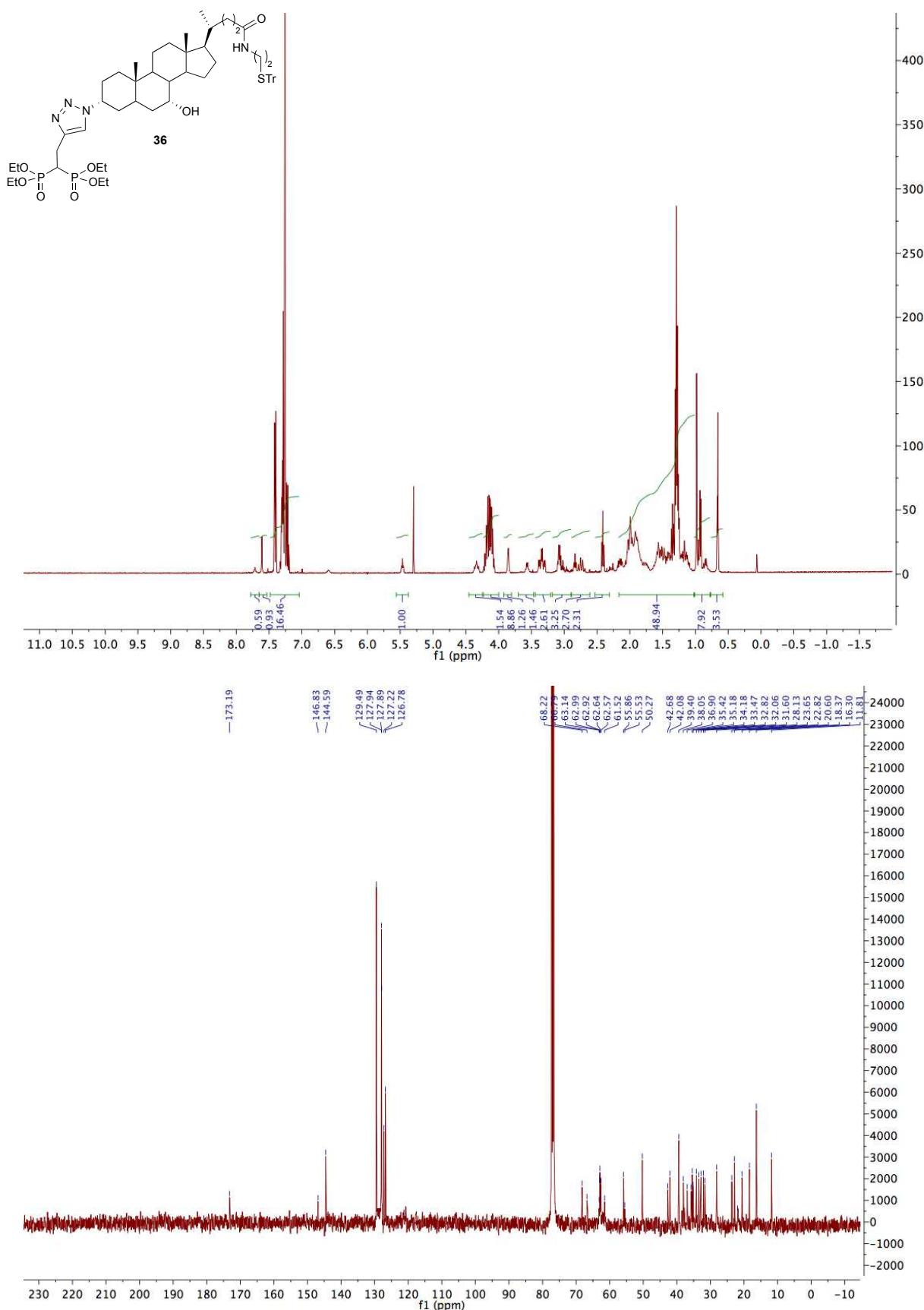


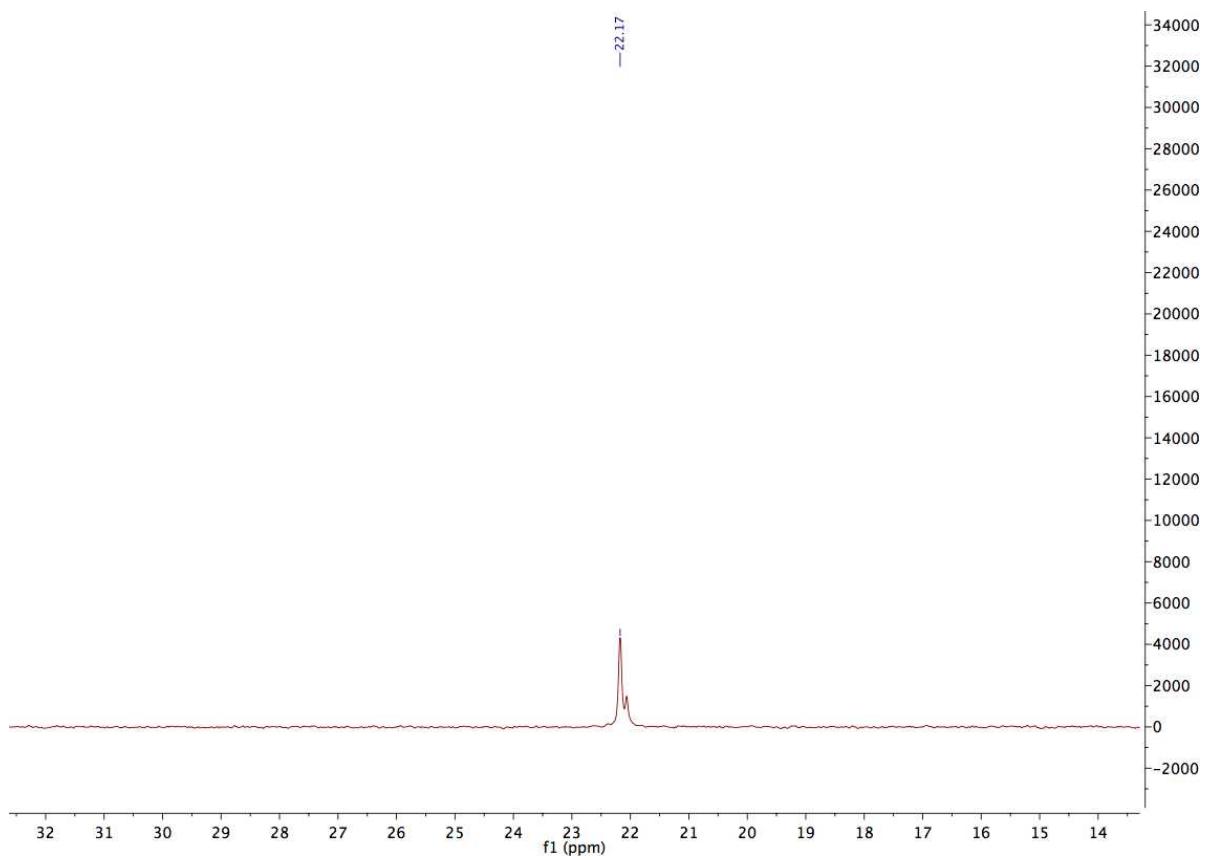
¹H (300 MHz), ¹³C (75 MHz), and ³¹P (121 MHz) spectra (CDCl₃) of 35



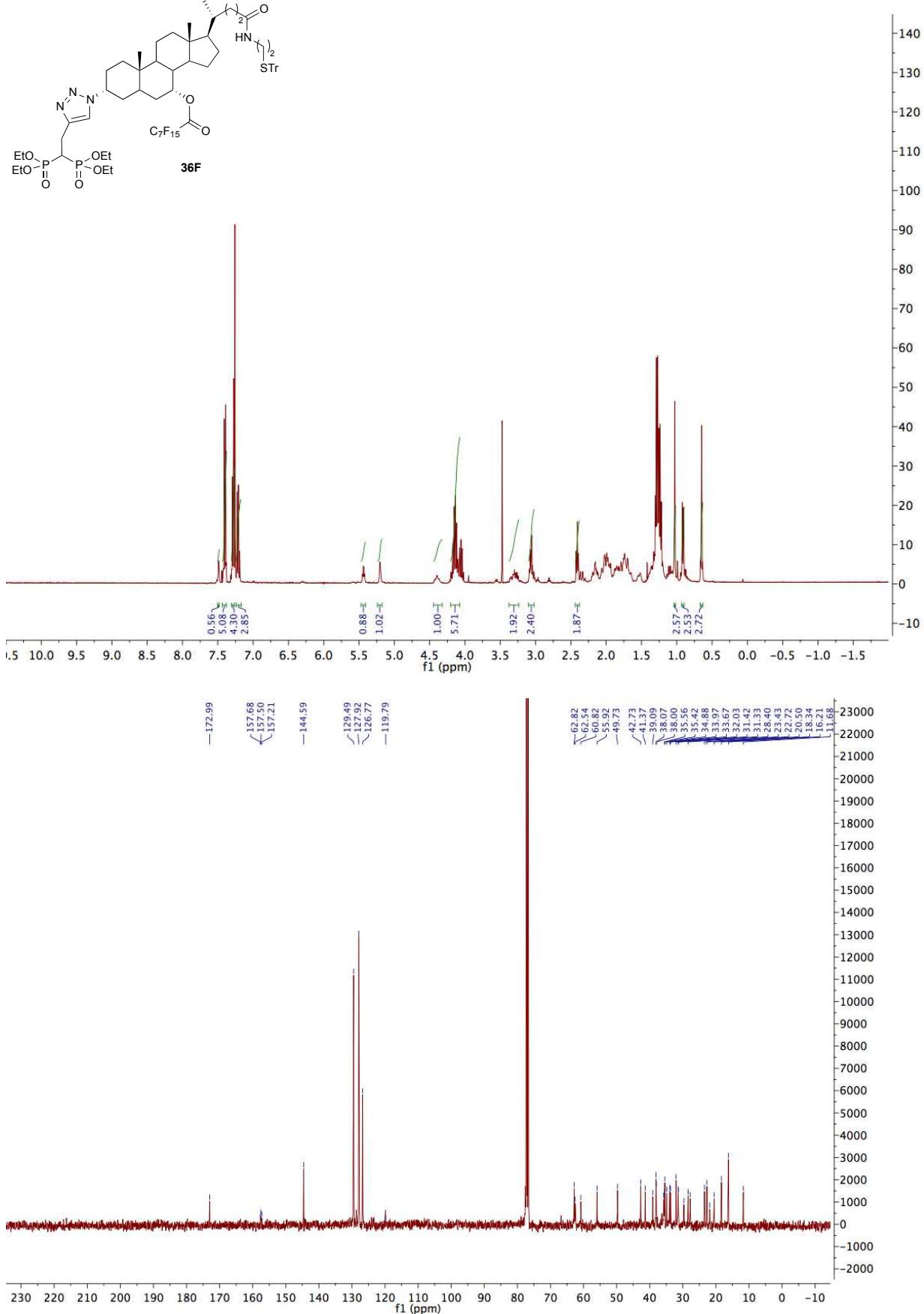
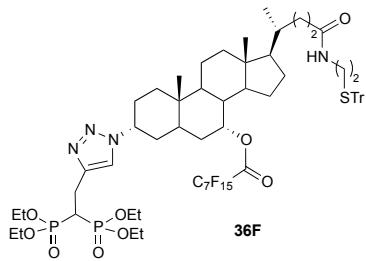


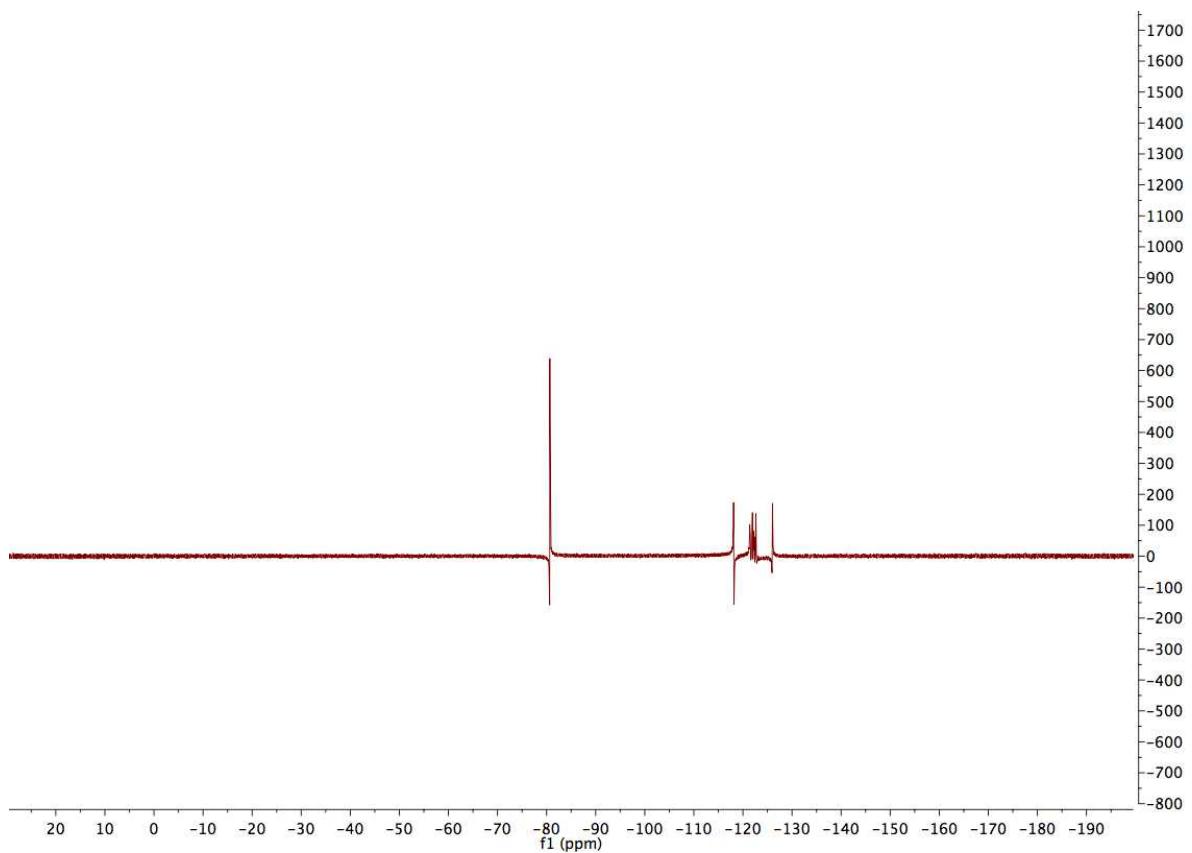
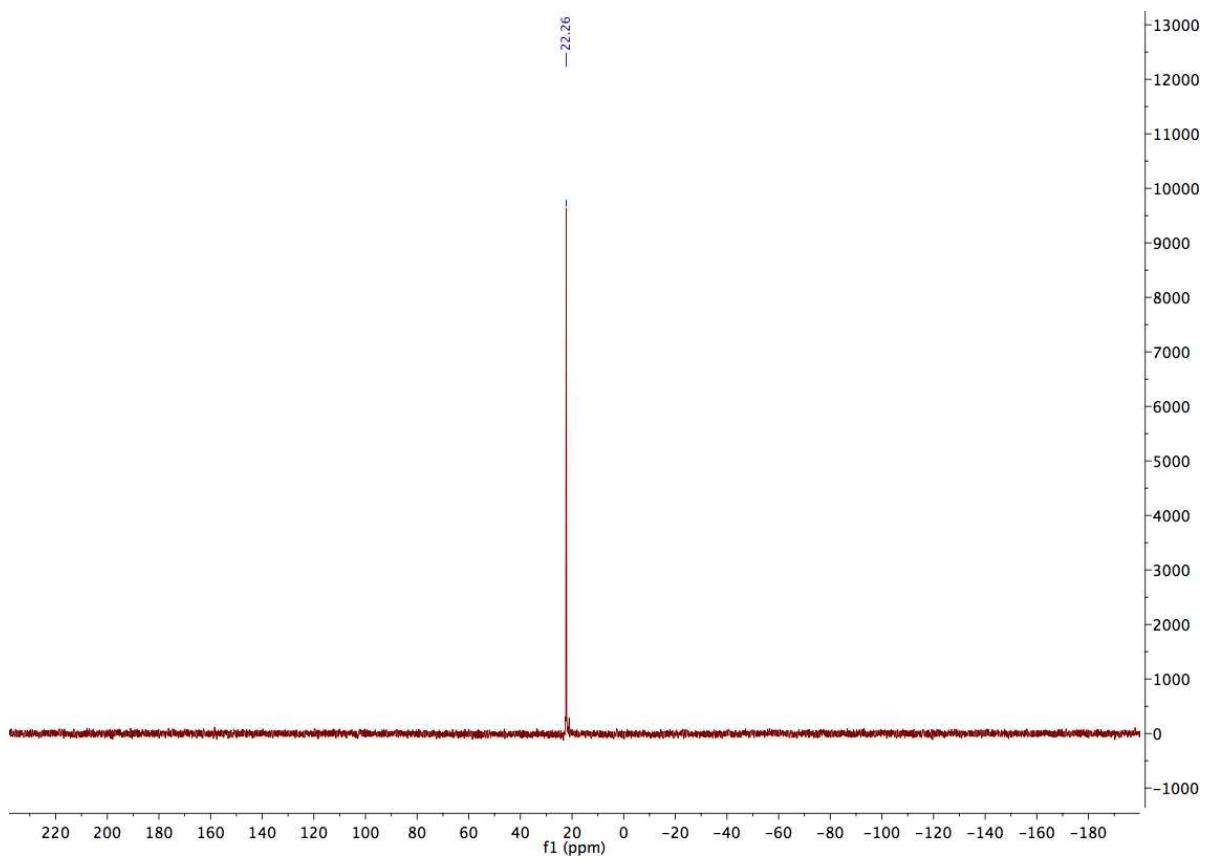
¹H (300 MHz), ¹³C (75 MHz), and ³¹P (121 MHz) spectra (CDCl₃) of 36



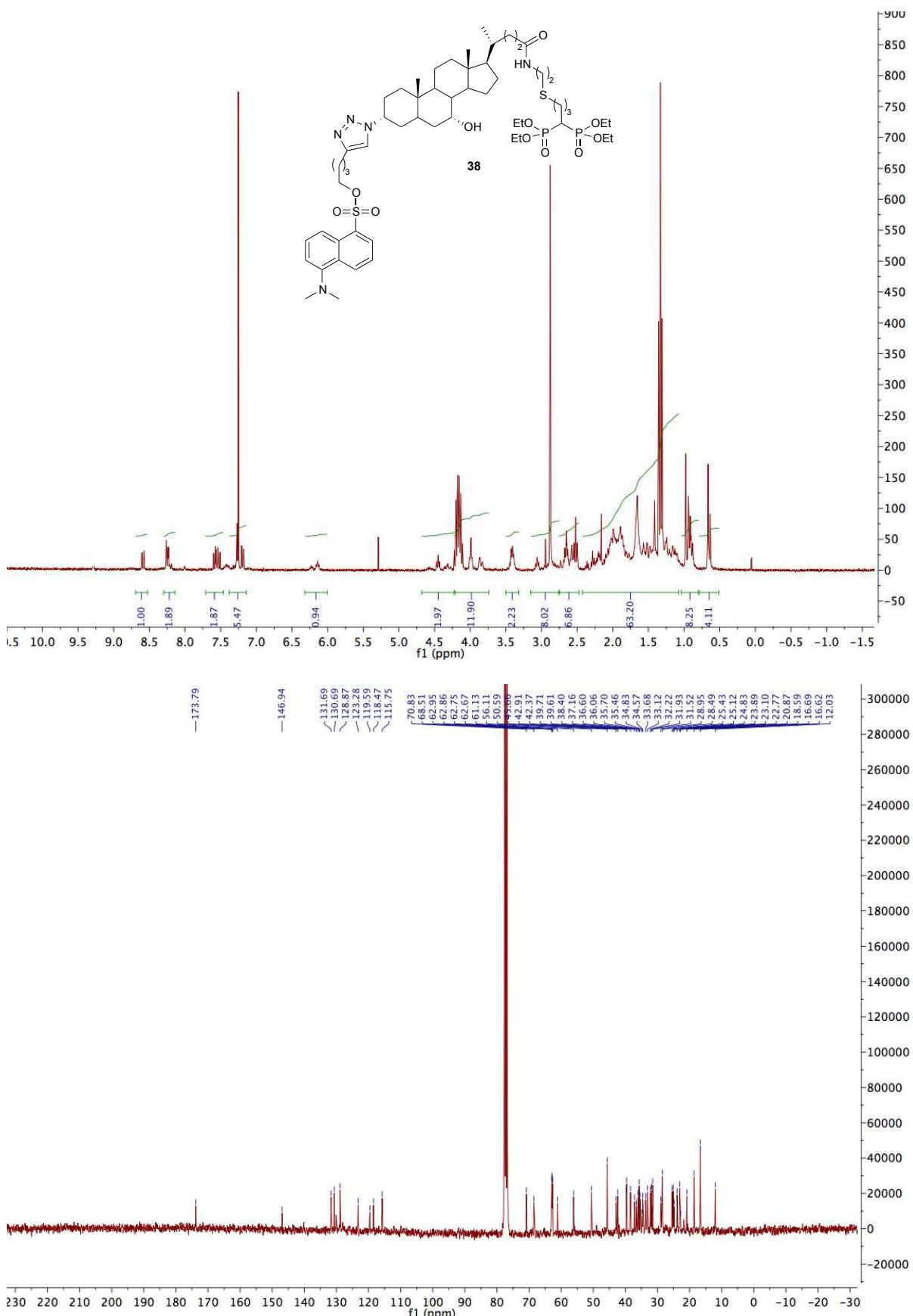


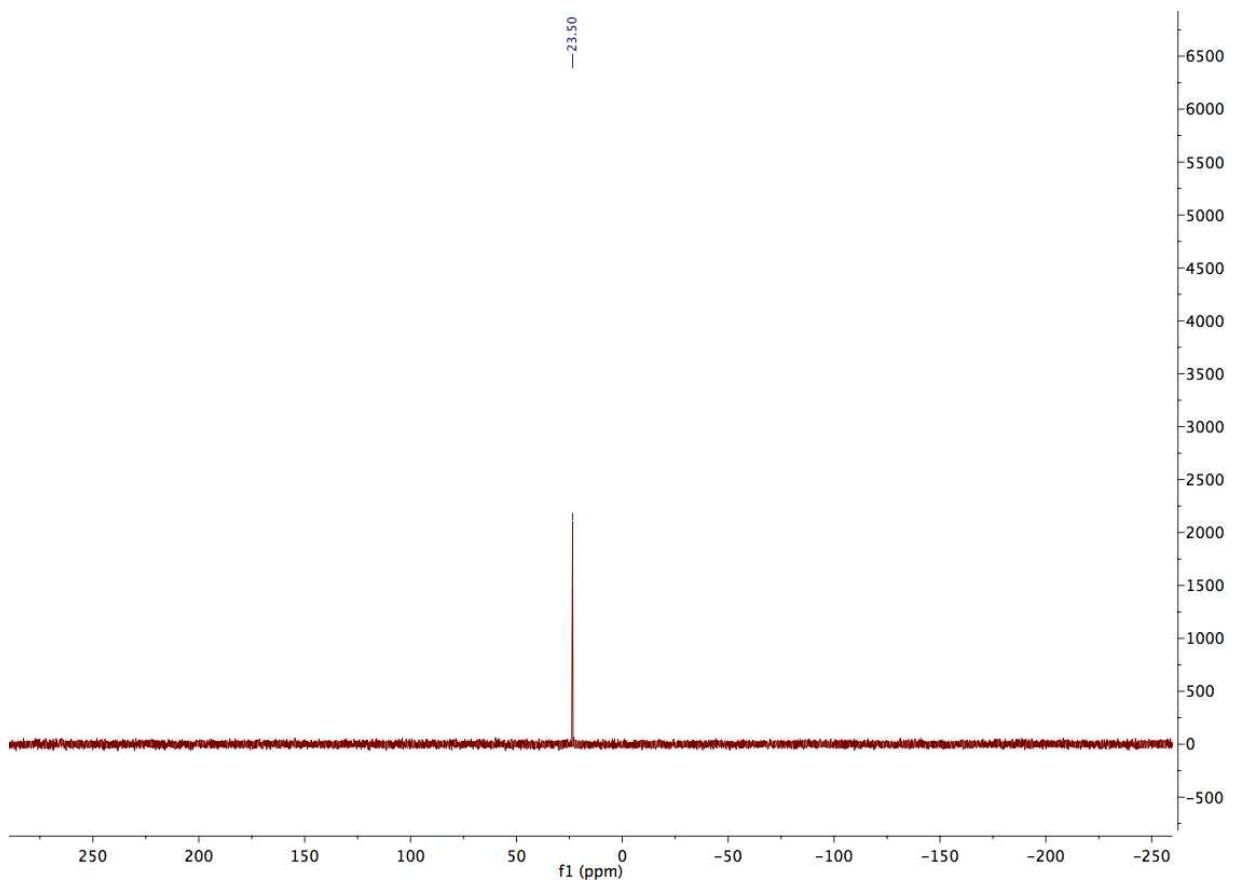
¹H (300 MHz), ¹³C (75 MHz), ³¹P (121 MHz), and ¹⁹F (282 MHz) spectra (CDCl_3) of 36F



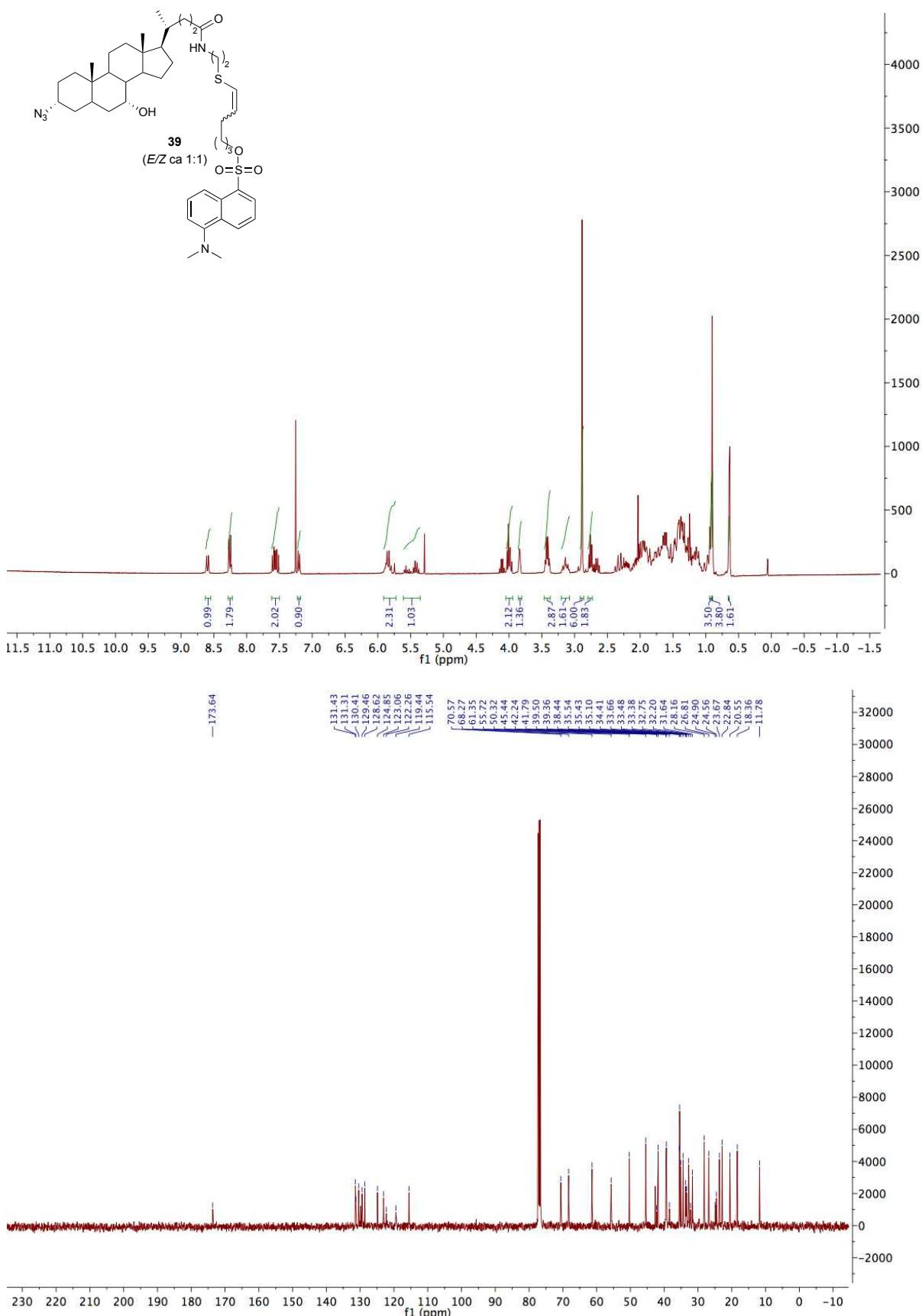


¹H (300 MHz), ¹³C (75 MHz), and ³¹P (121 MHz) spectra (CDCl₃) of 38

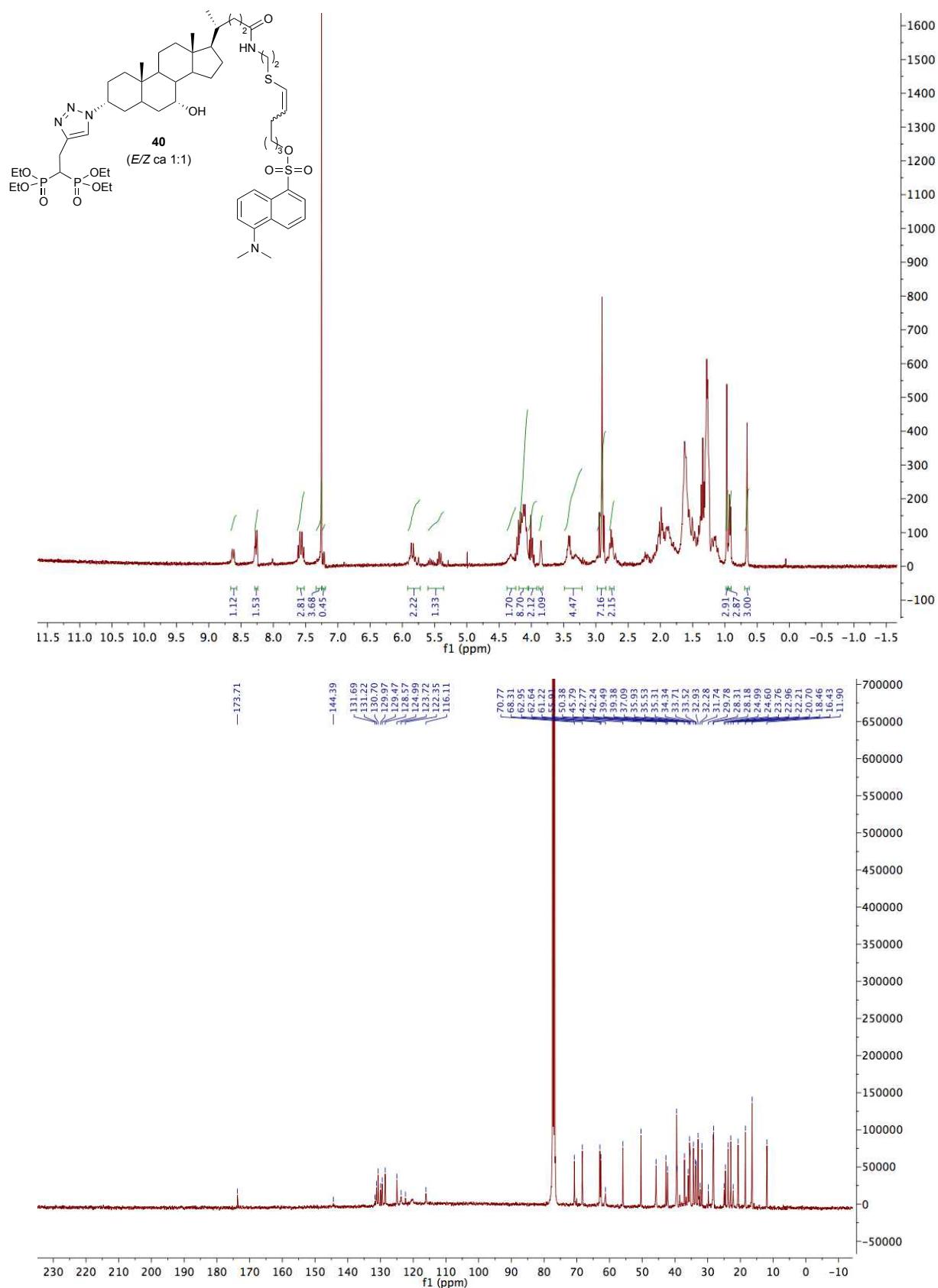


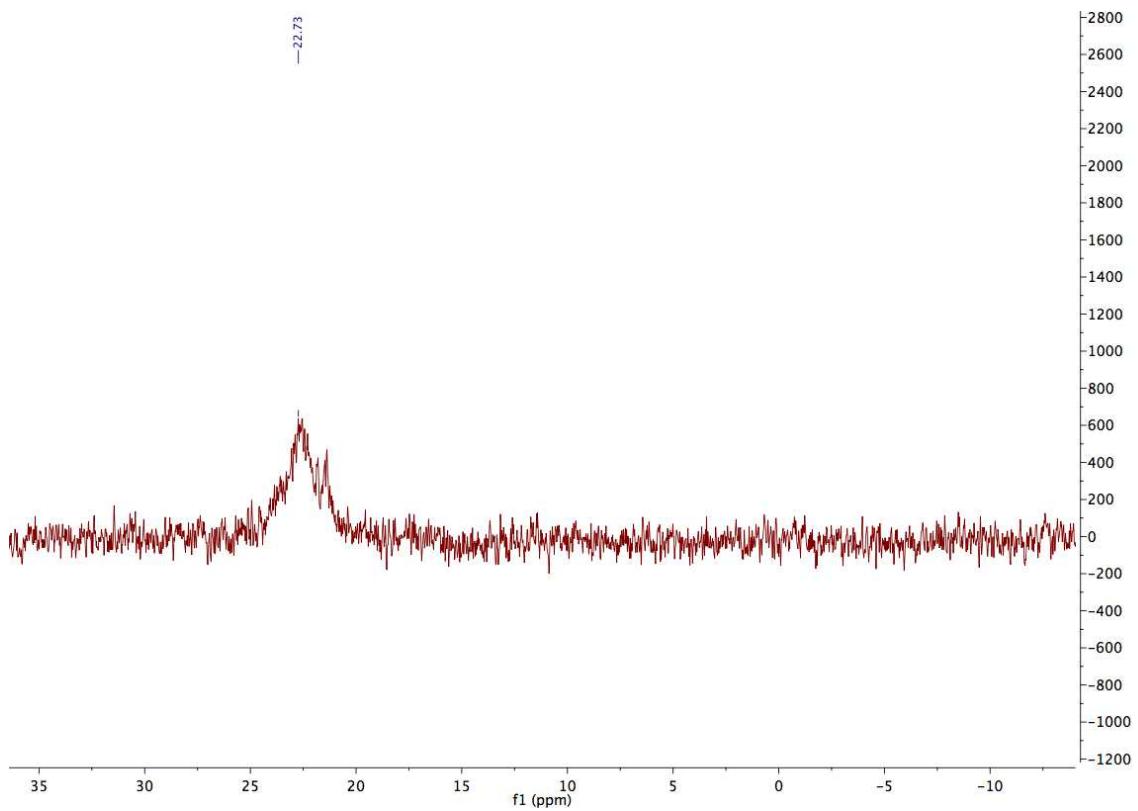


¹H (300 MHz) and ¹³C (75 MHz) spectra (CDCl₃) of 39



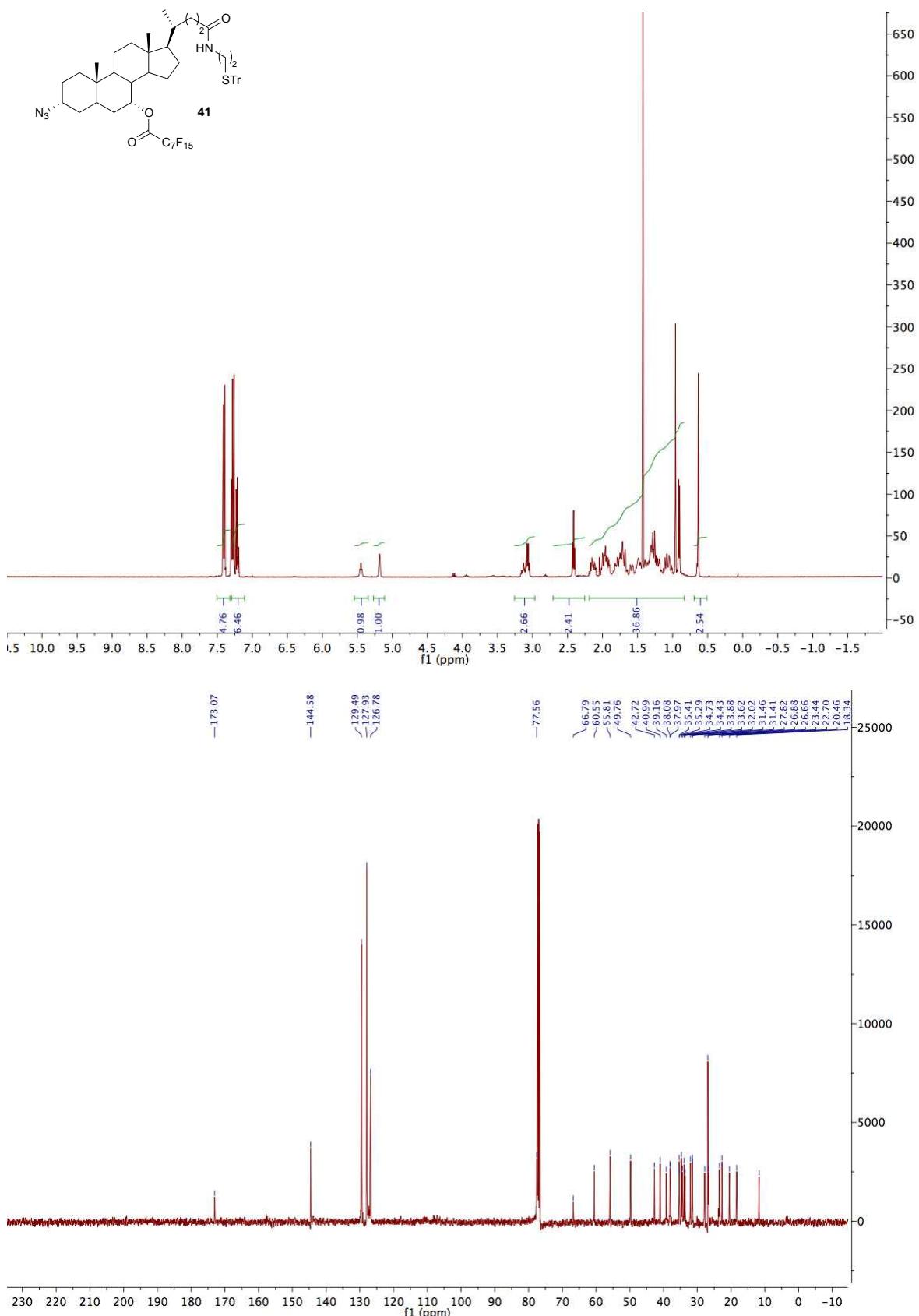
¹H (300 MHz), ¹³C (75 MHz), and ³¹P (121 MHz) spectra (CDCl₃) of 40

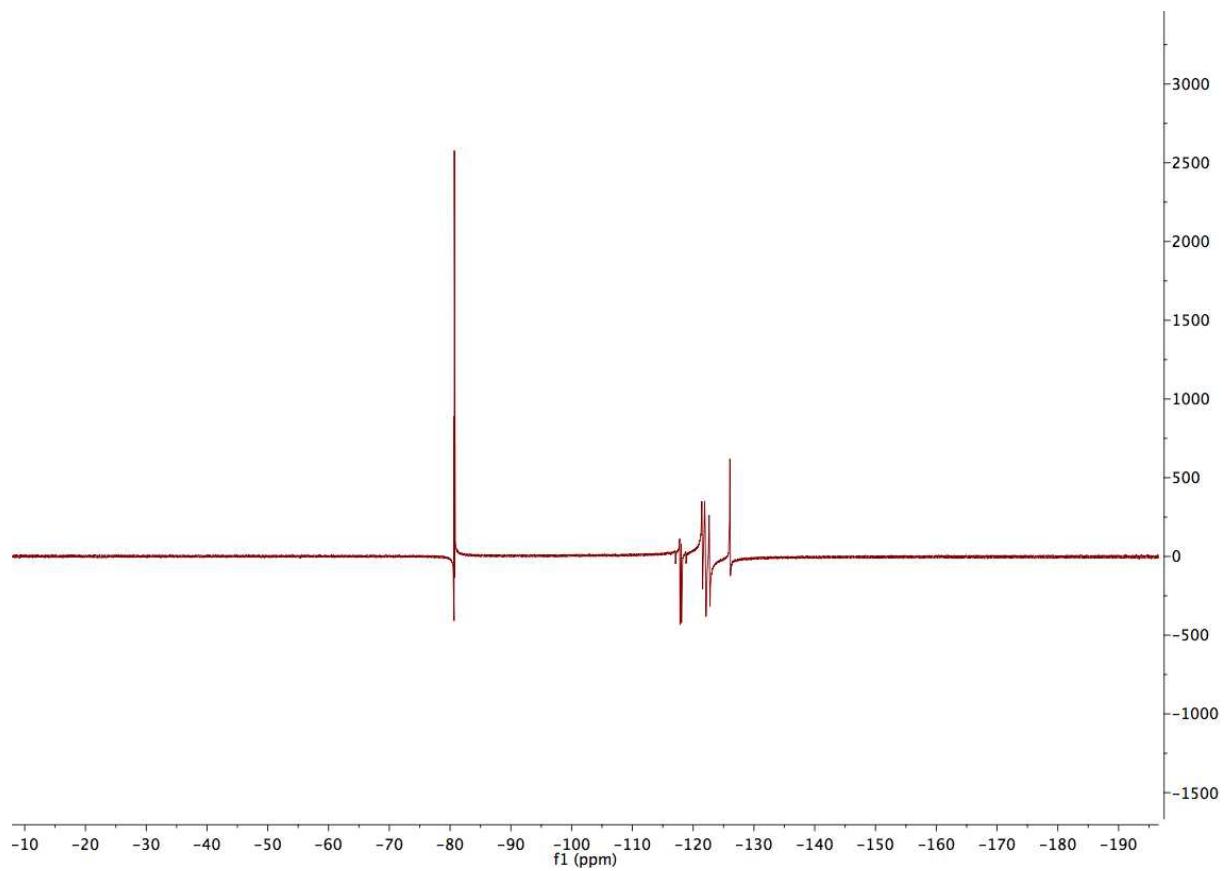




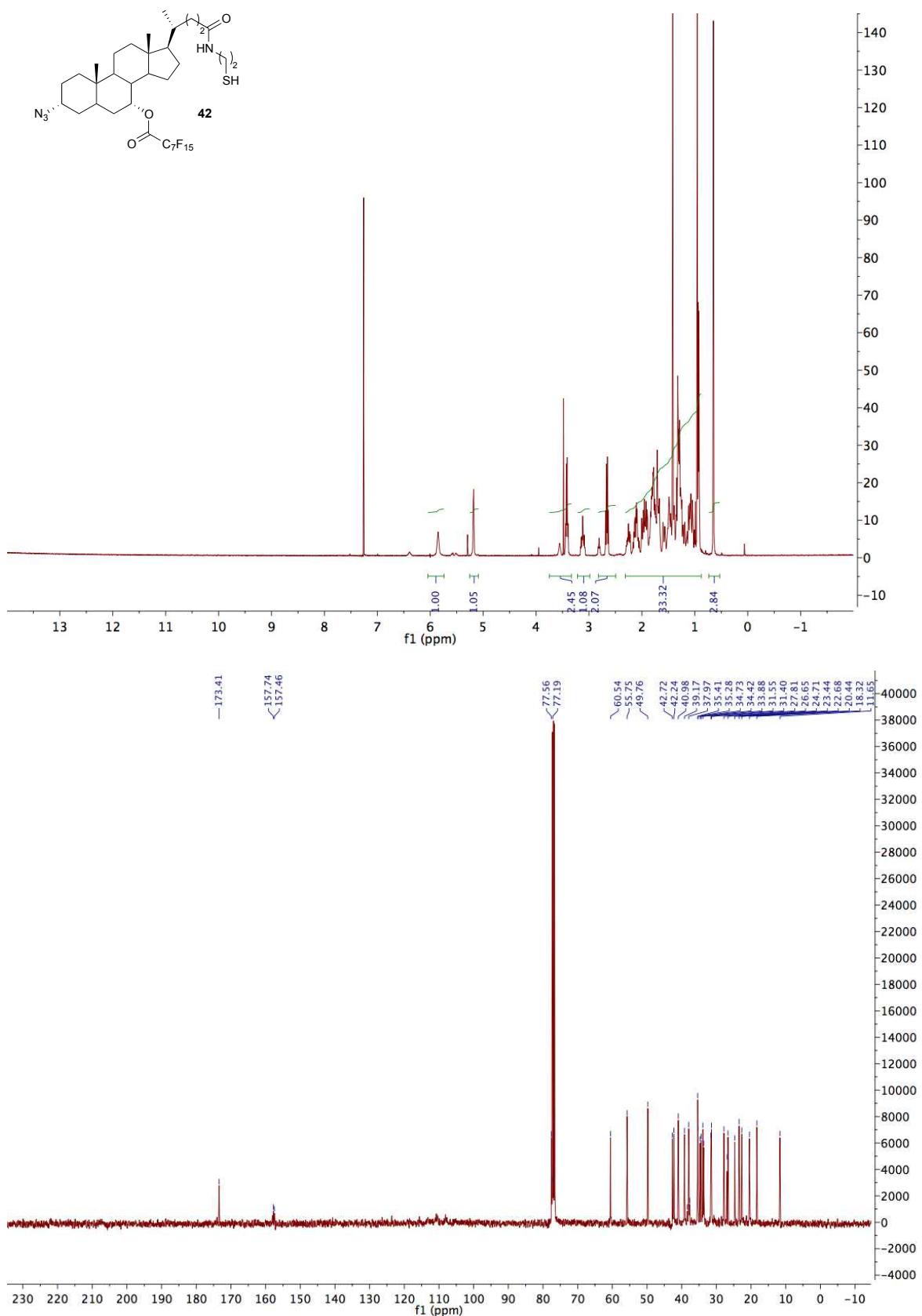
S33

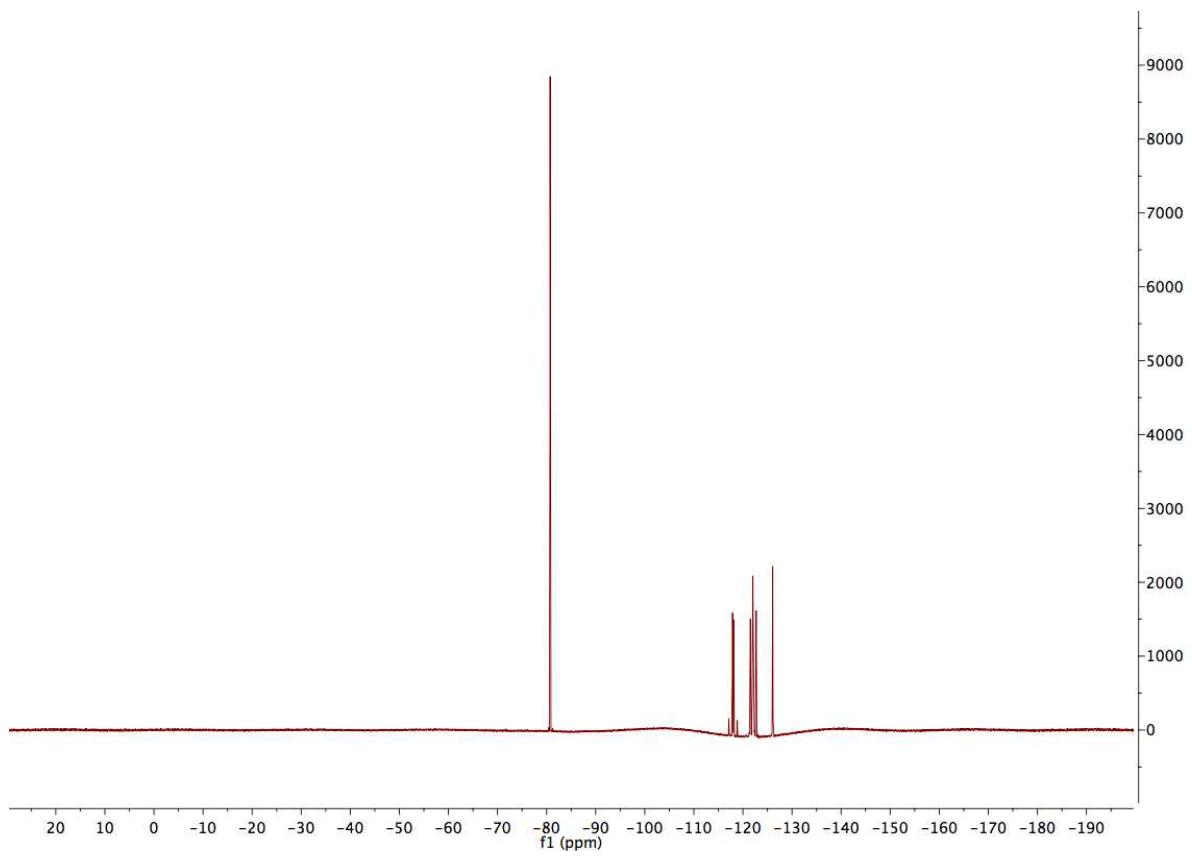
¹H (300 MHz), ¹³C (75 MHz), and ¹⁹F (282 MHz) spectra (CDCl₃) of 41



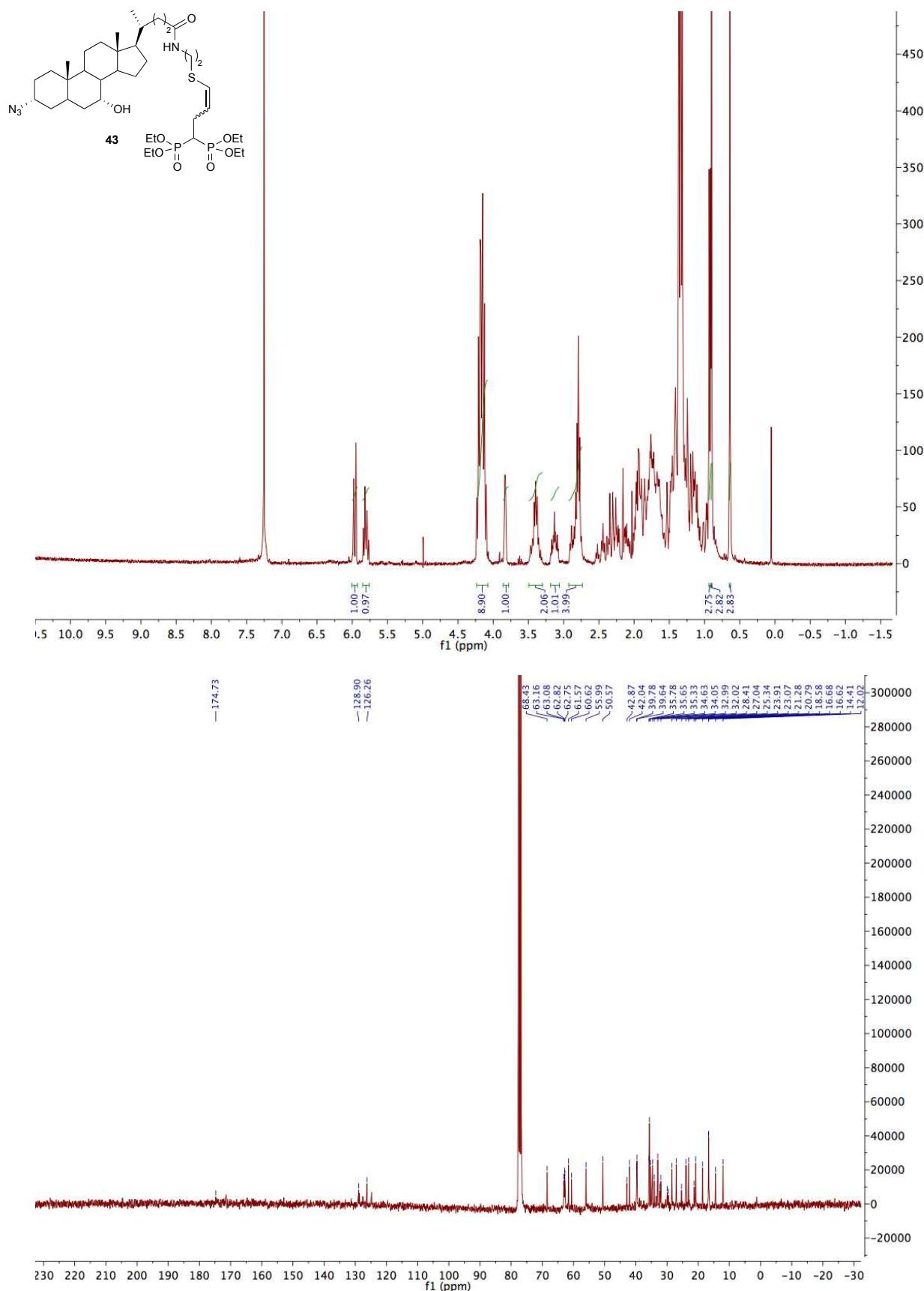


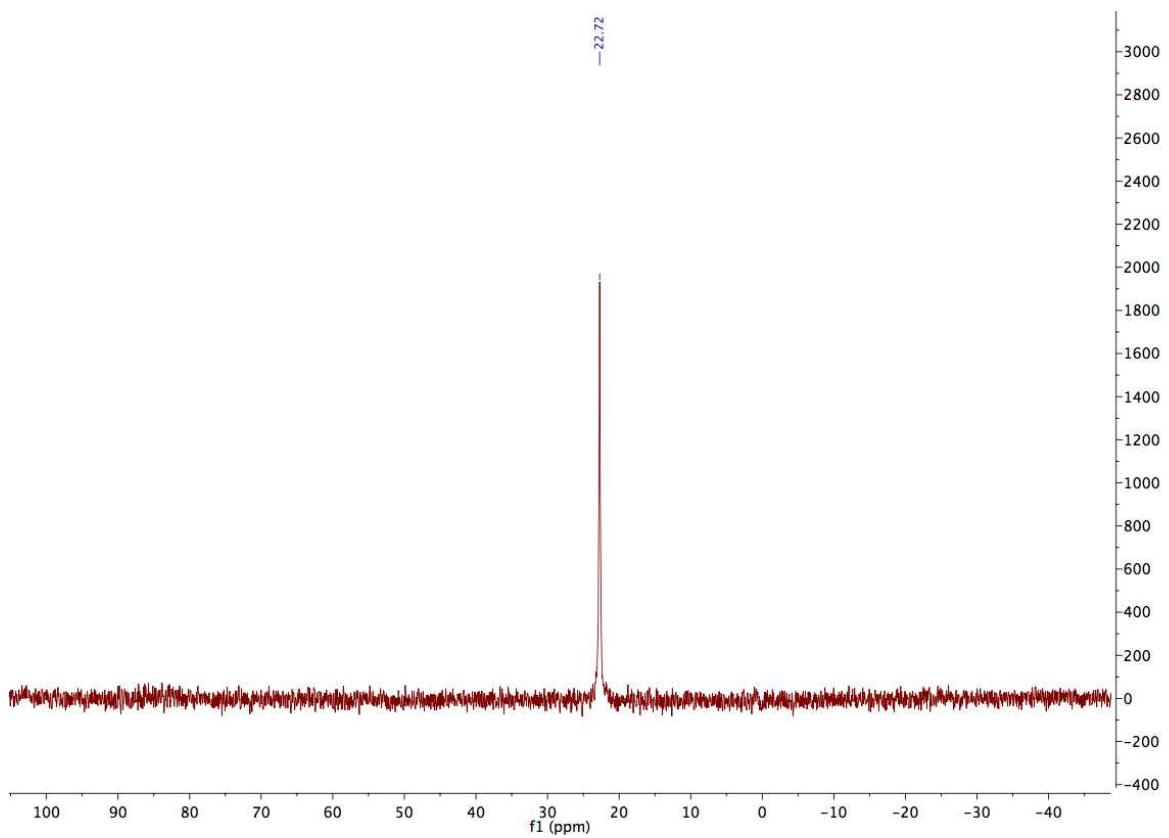
¹H (300 MHz), ¹³C (75 MHz), and ¹⁹F (282 MHz) spectra (CDCl₃) of 42



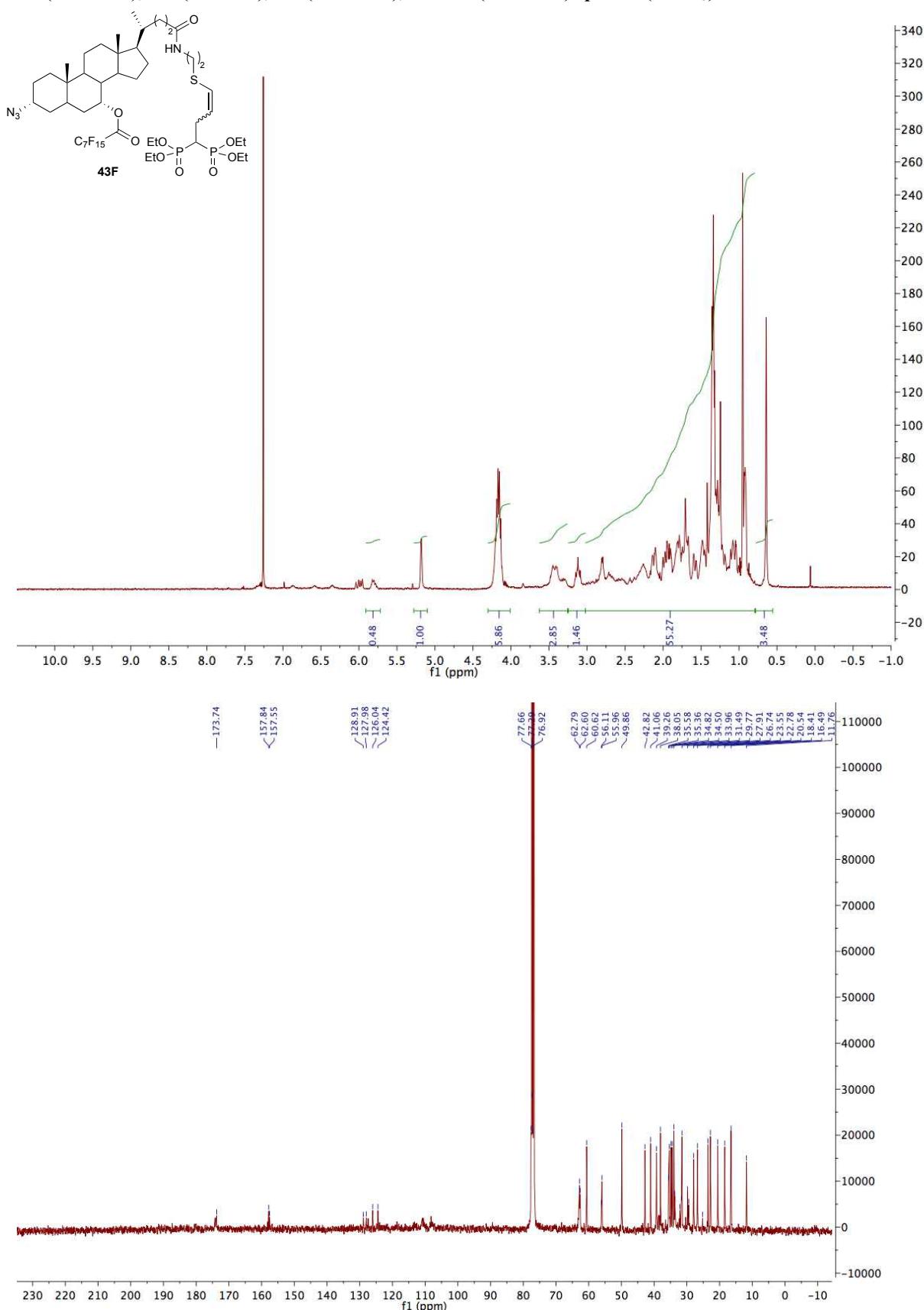


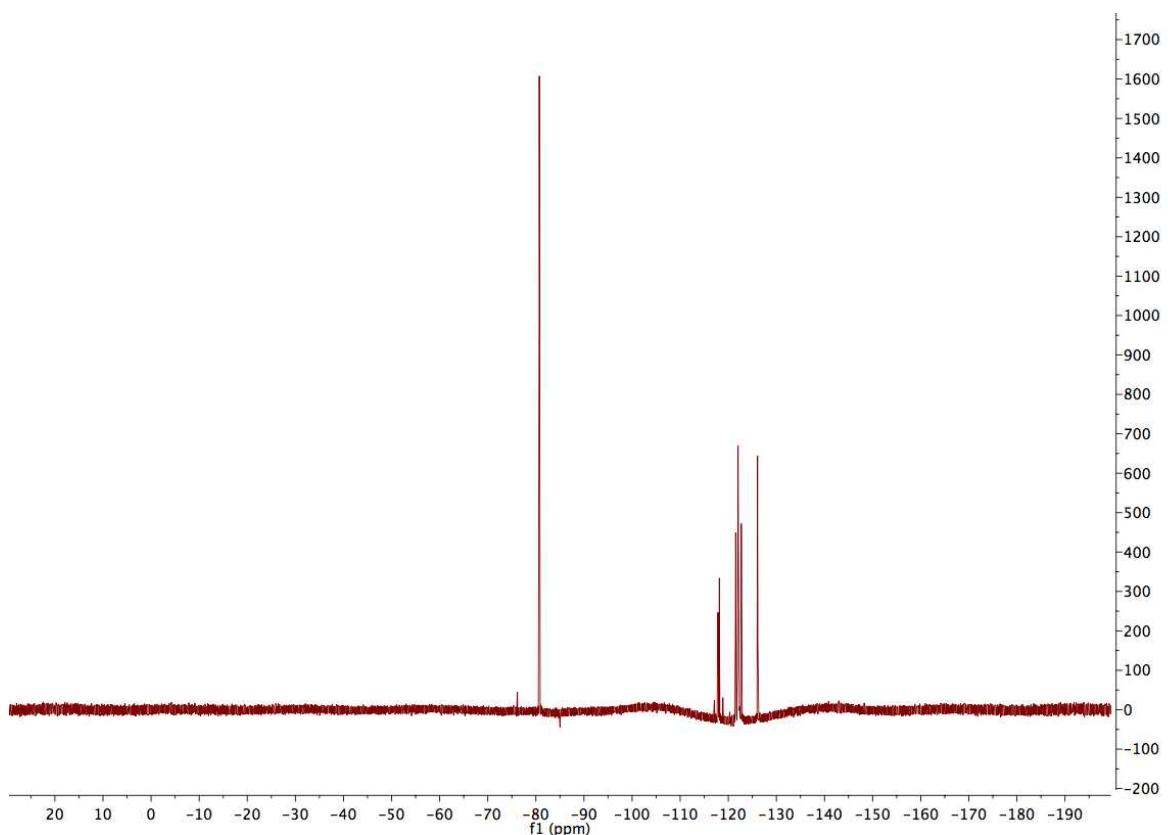
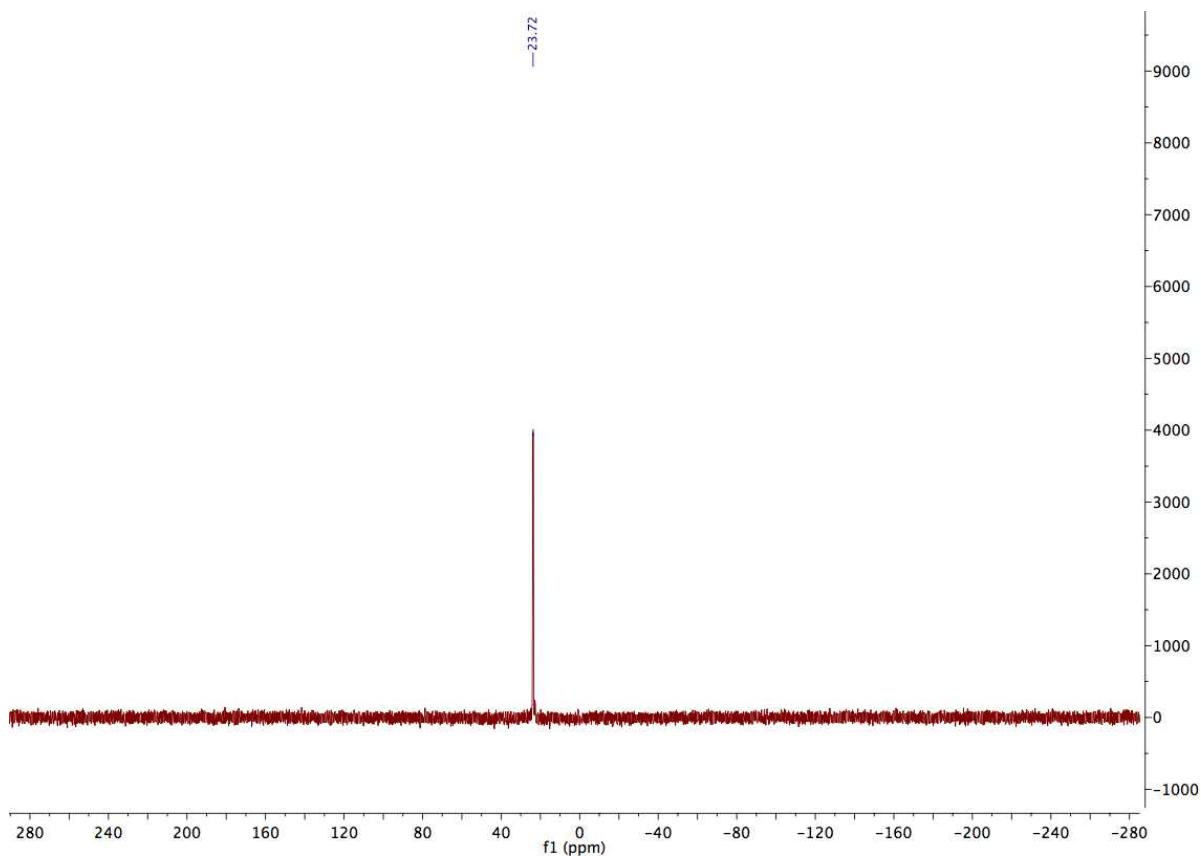
¹H (300 MHz), ¹³C (75 MHz), and ³¹P (121 MHz) spectra (CDCl₃) of 43



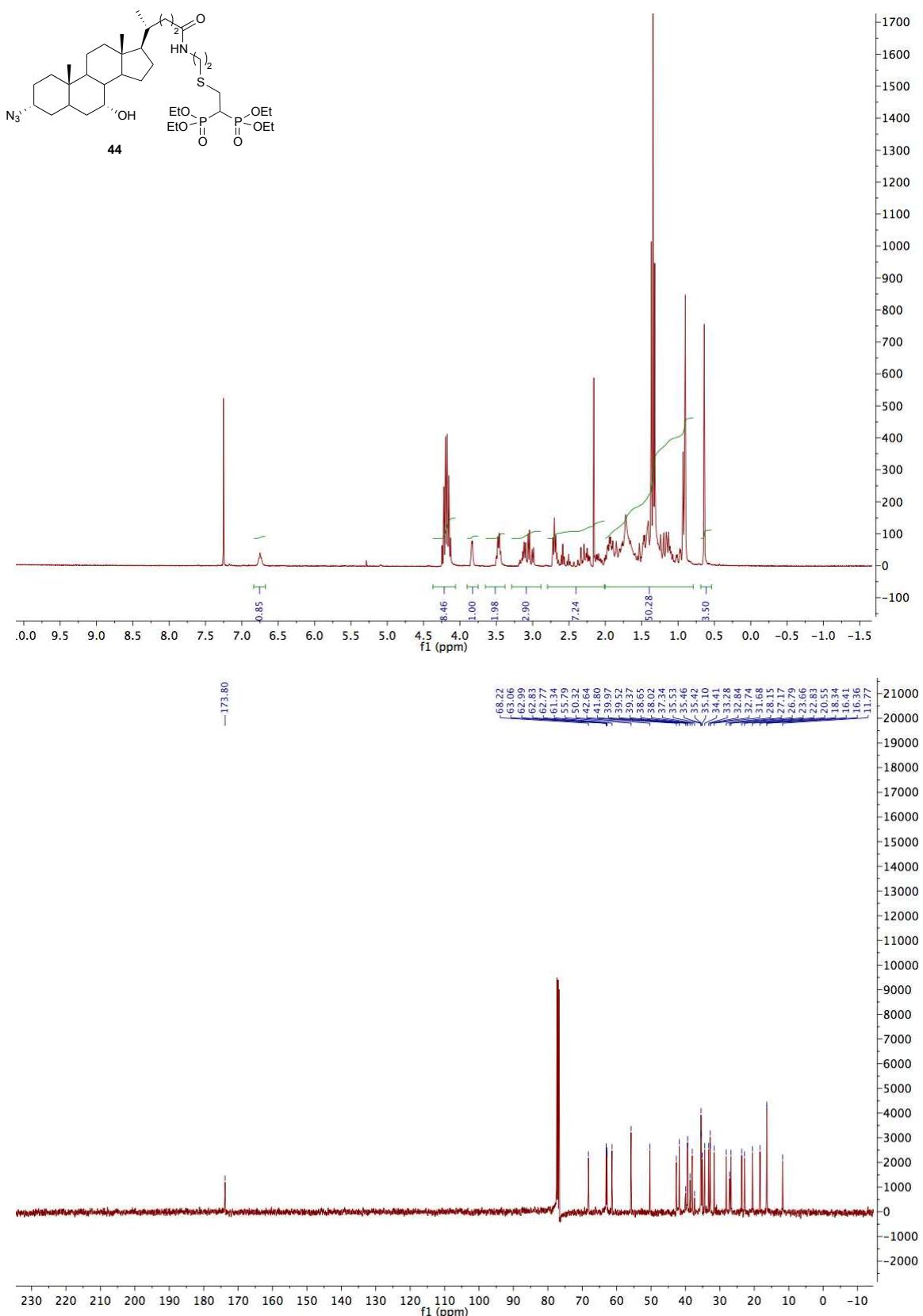


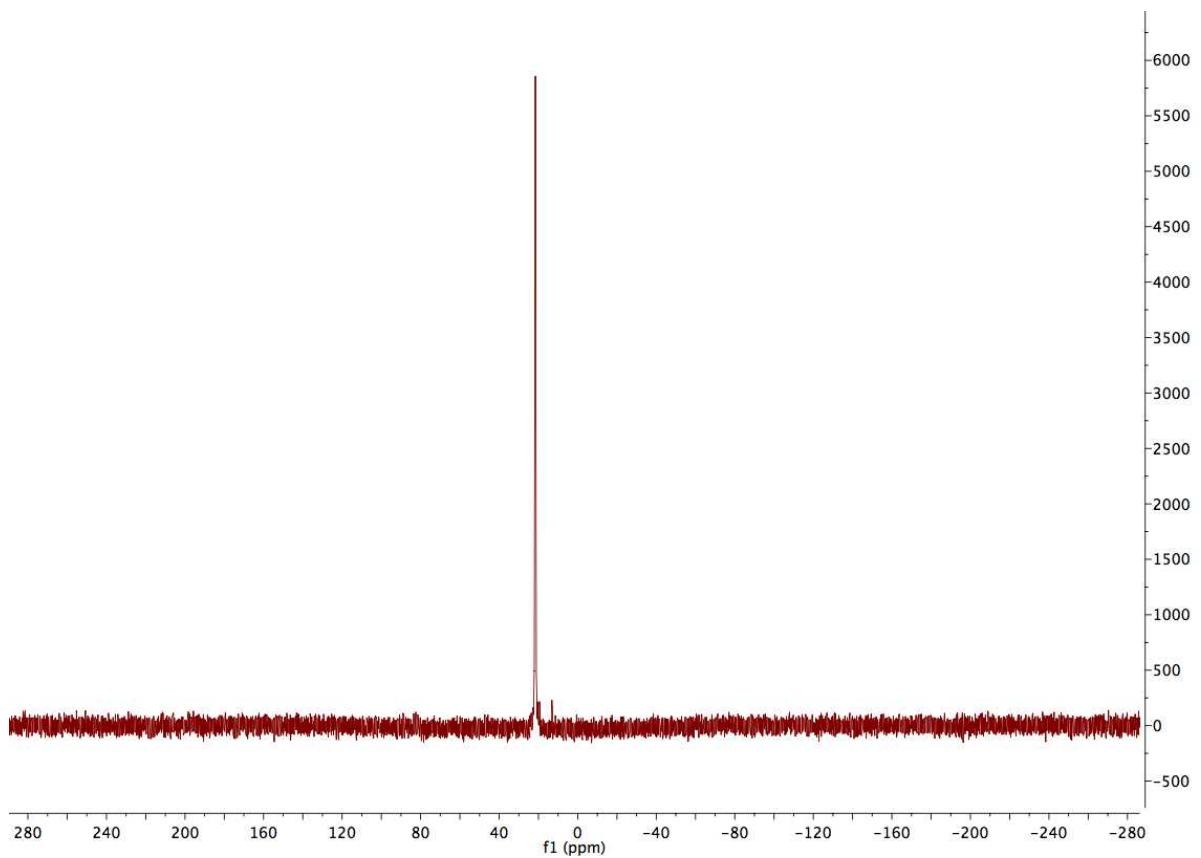
¹H (300 MHz), ¹³C (75 MHz), ³¹P (121 MHz), and ¹⁹F (282 MHz) spectra (CDCl₃) of 43F



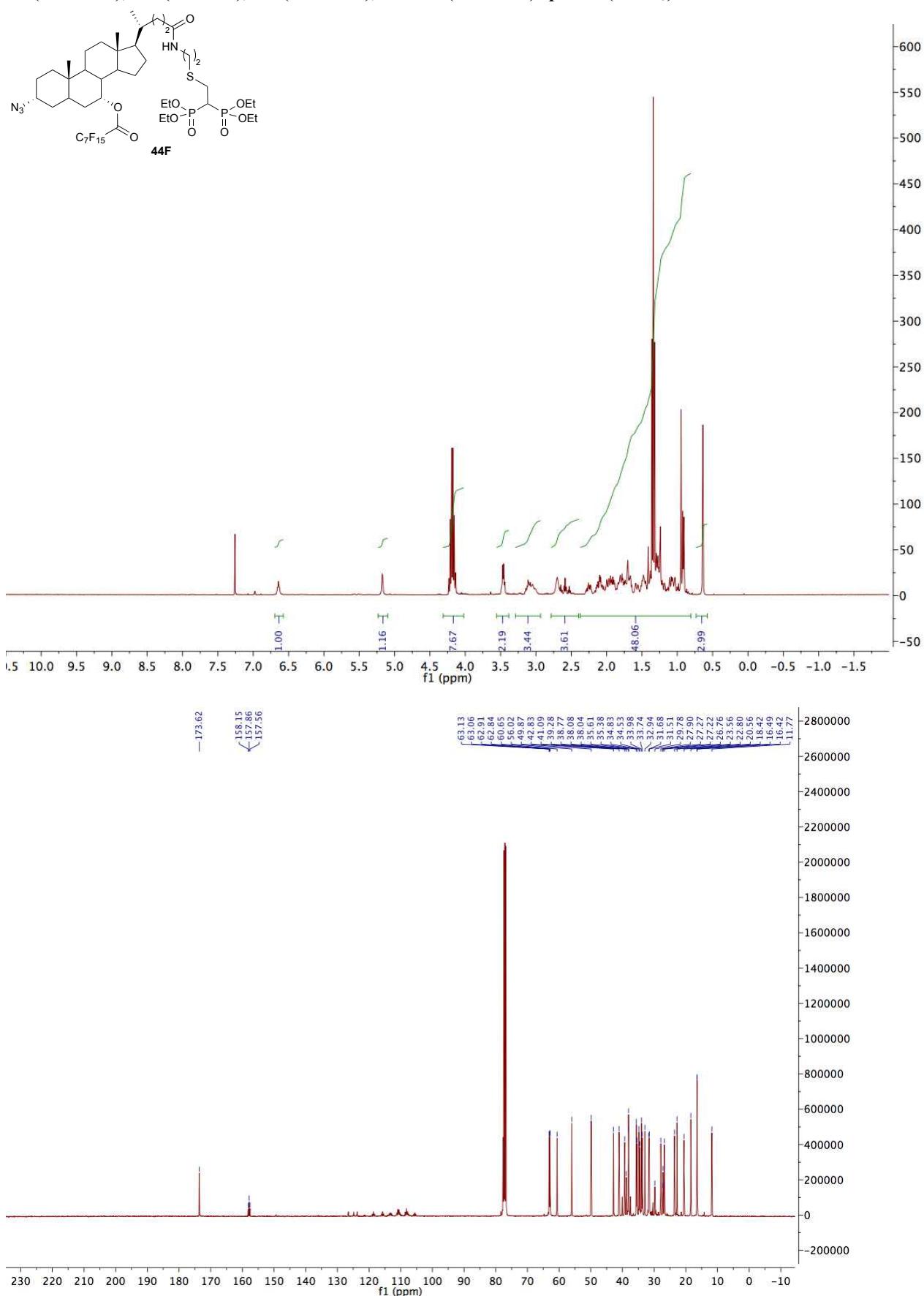


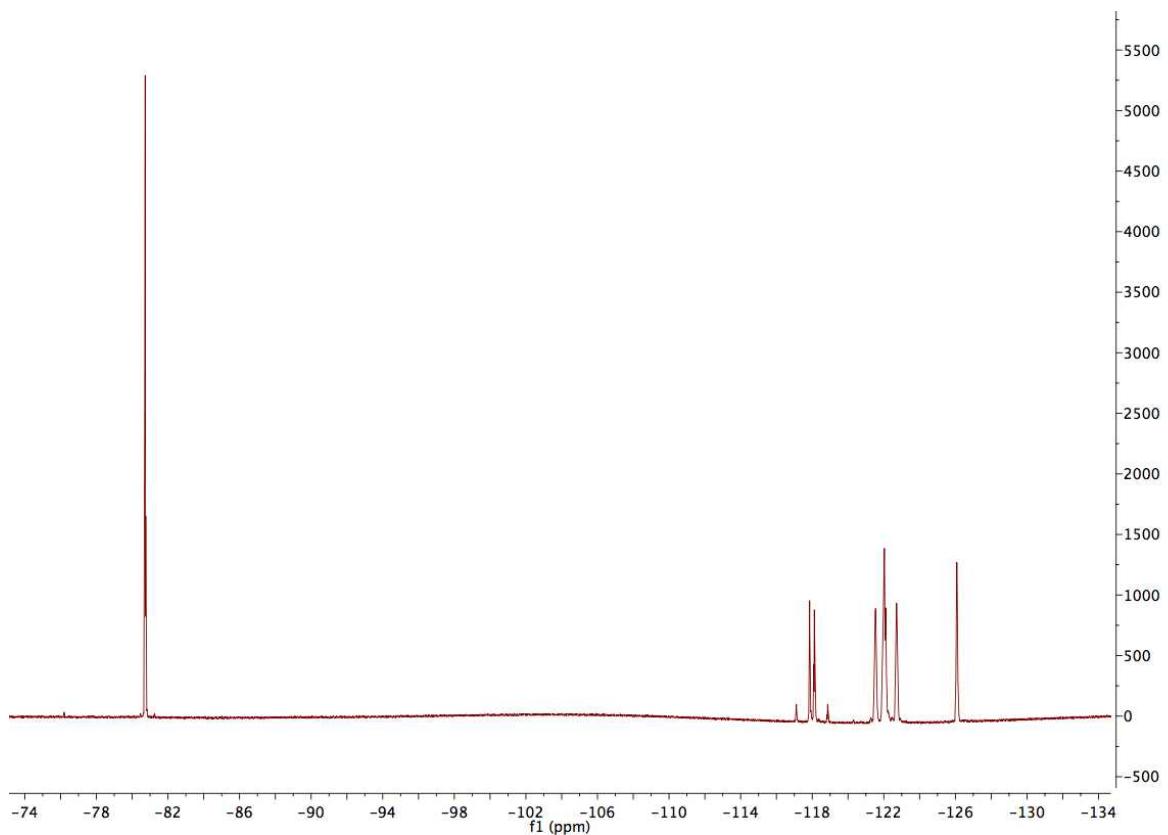
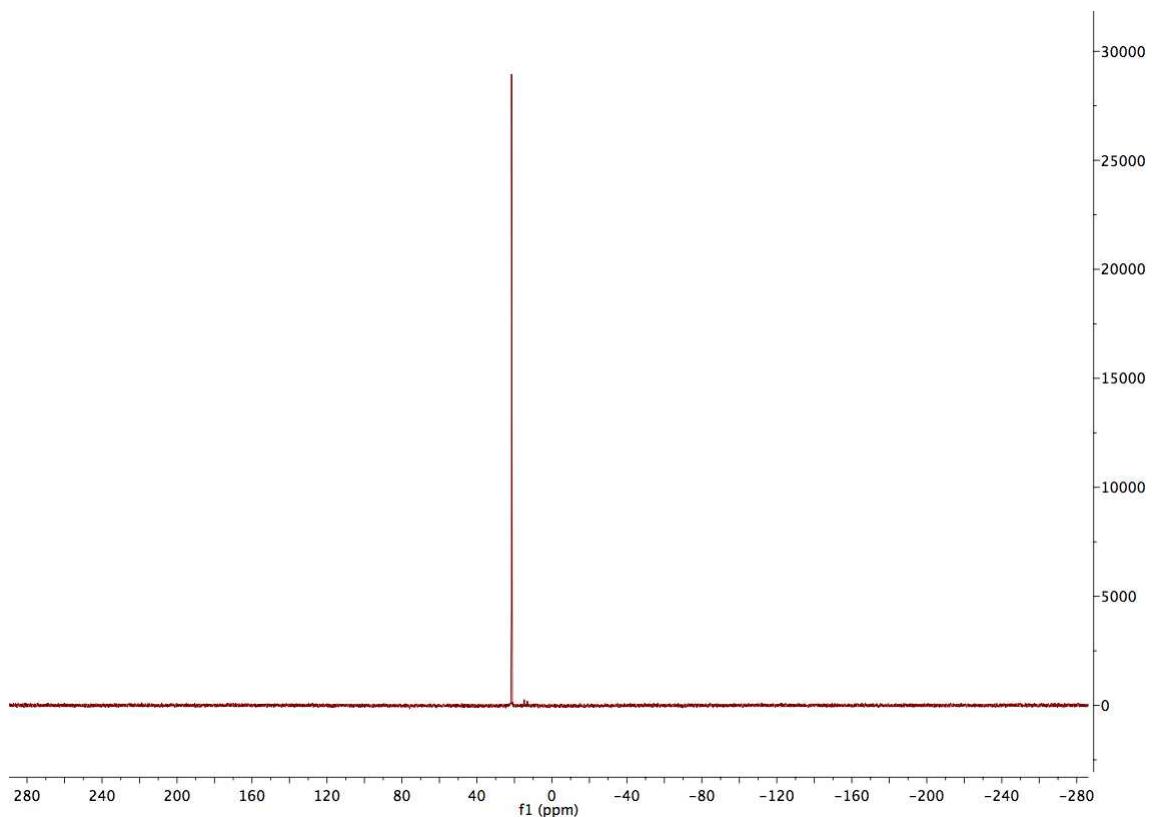
¹H (300 MHz), ¹³C (75 MHz), and ³¹P (121 MHz) spectra (CDCl₃) of 44



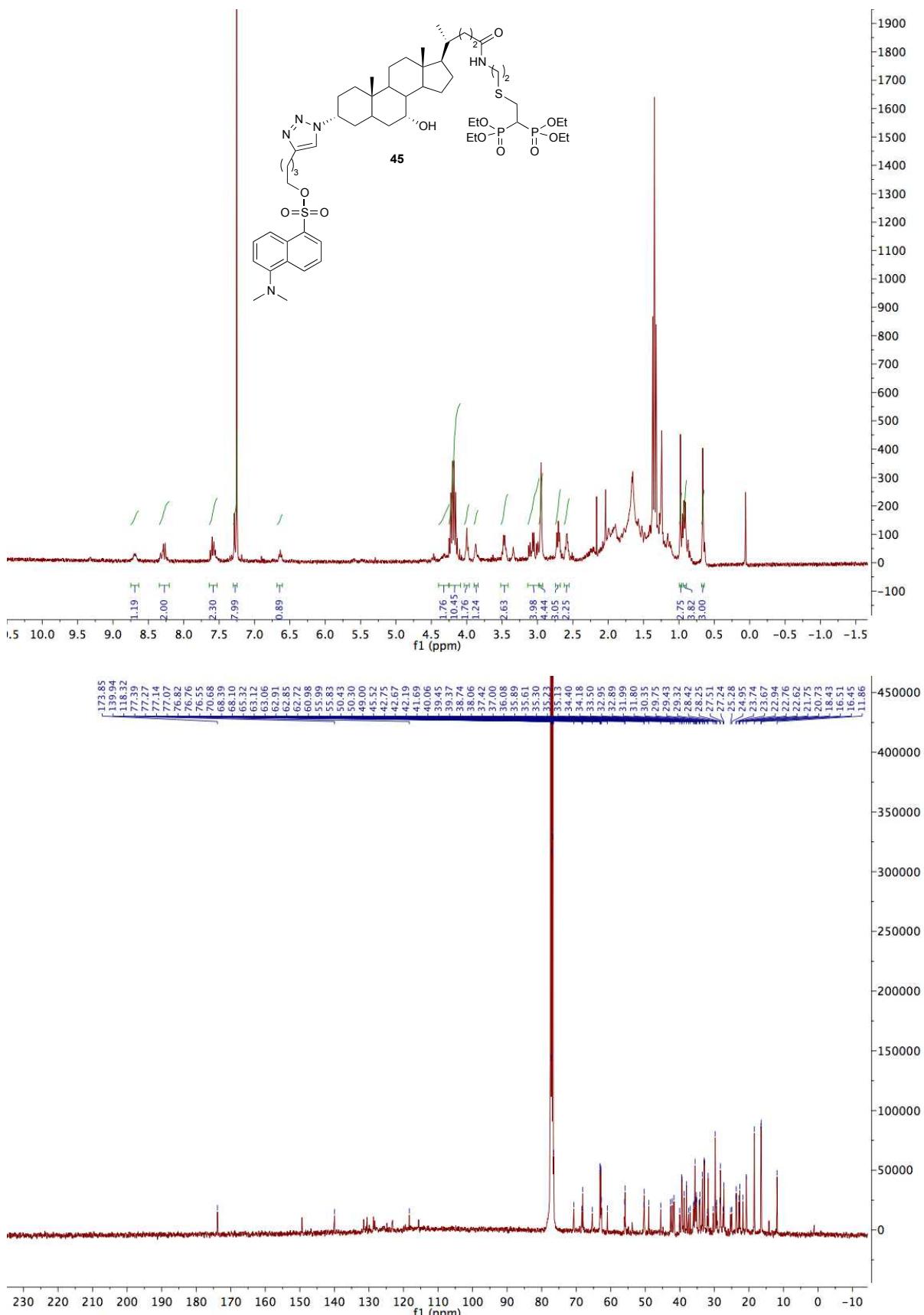


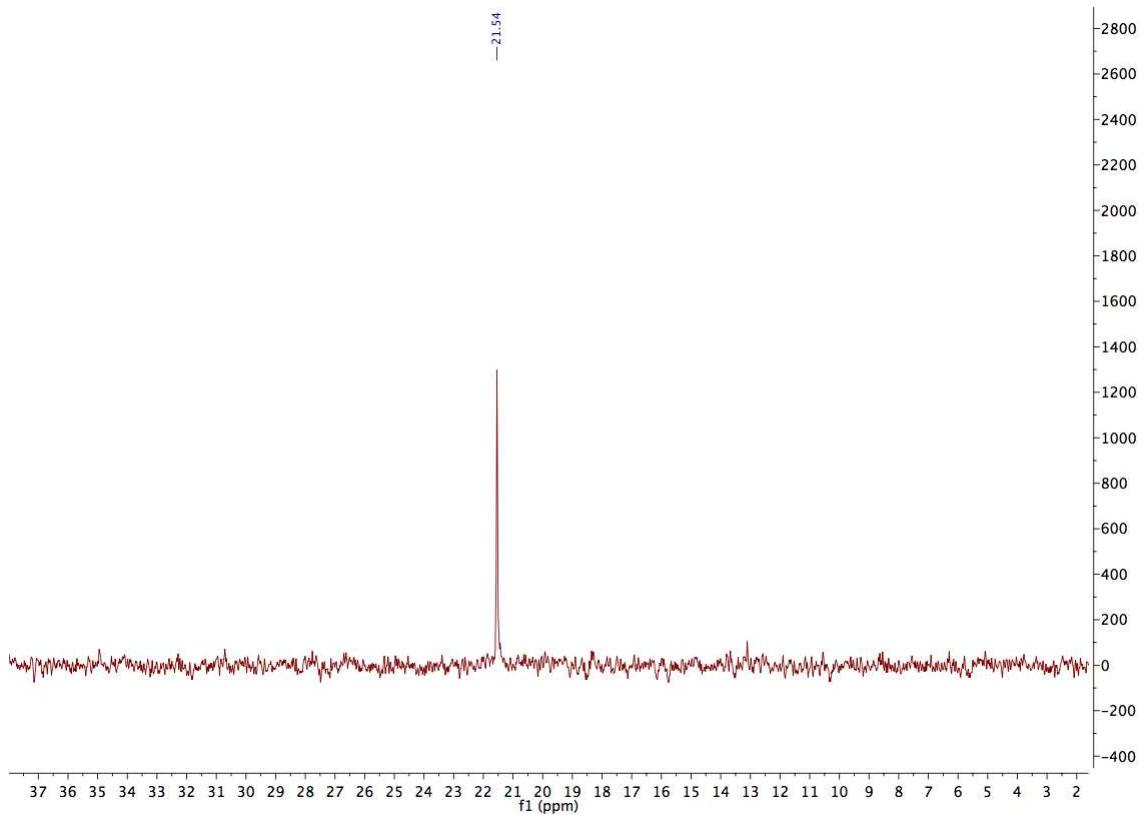
¹H (300 MHz), ¹³C (75 MHz), ³¹P (121 MHz), and ¹⁹F (282 MHz) spectra (CDCl₃) of 44F





¹H (300 MHz), ¹³C (75 MHz), and ³¹P (121 MHz) spectra (CDCl₃) of 45





¹H (300 MHz), ¹³C (75 MHz), and ³¹P (121 MHz) spectra (CDCl₃) of 46

