

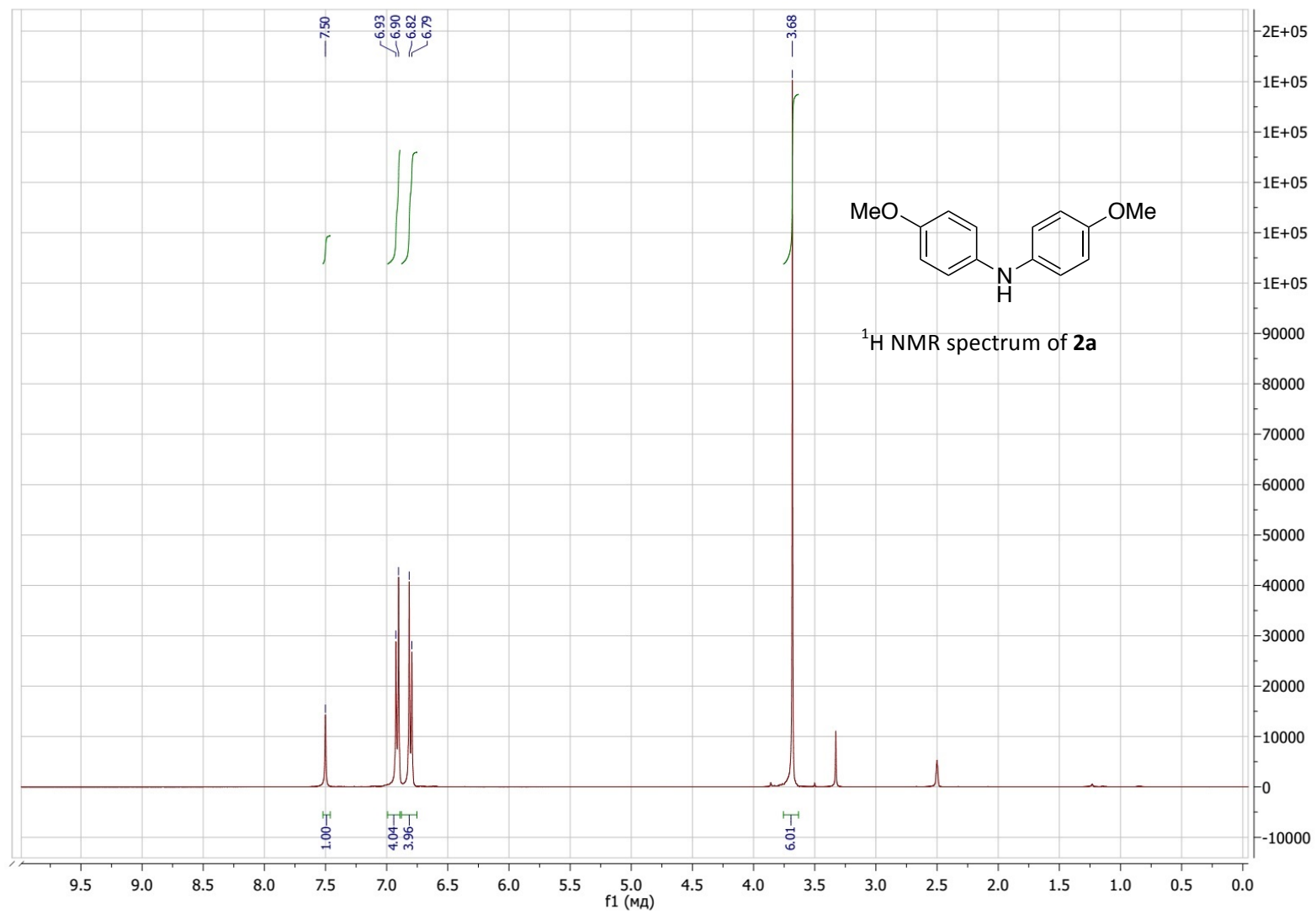
Direct metal-free synthesis of diarylamines from 2-nitropropane via the twofold C-H functionalization of arenes

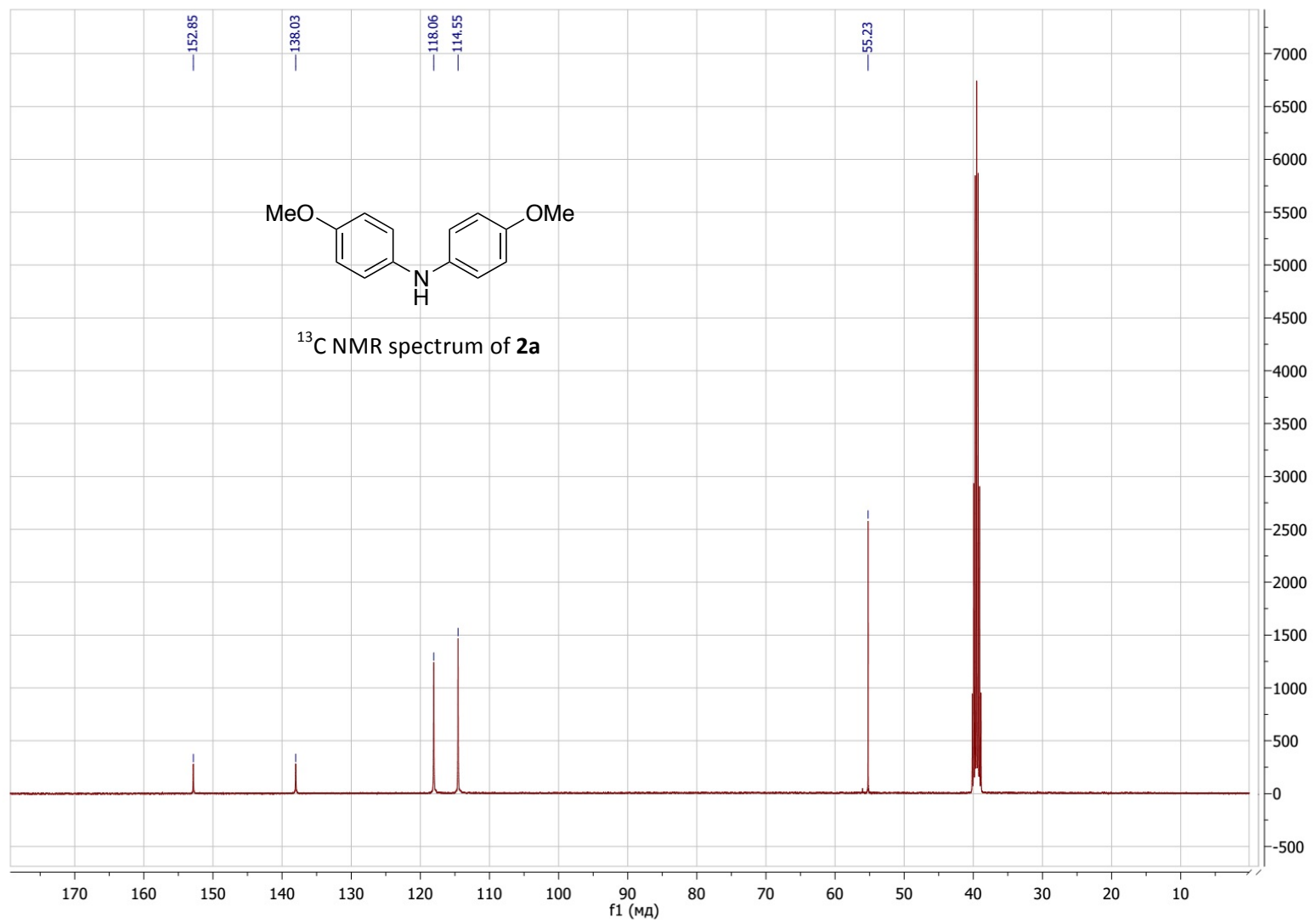
Alexander V. Aksenov,* Nicolai A. Aksenov, Naila A. Orazova, Dmitrii A. Aksenov, Maksim V. Dmitriev, and Michael Rubin*^{a,c}

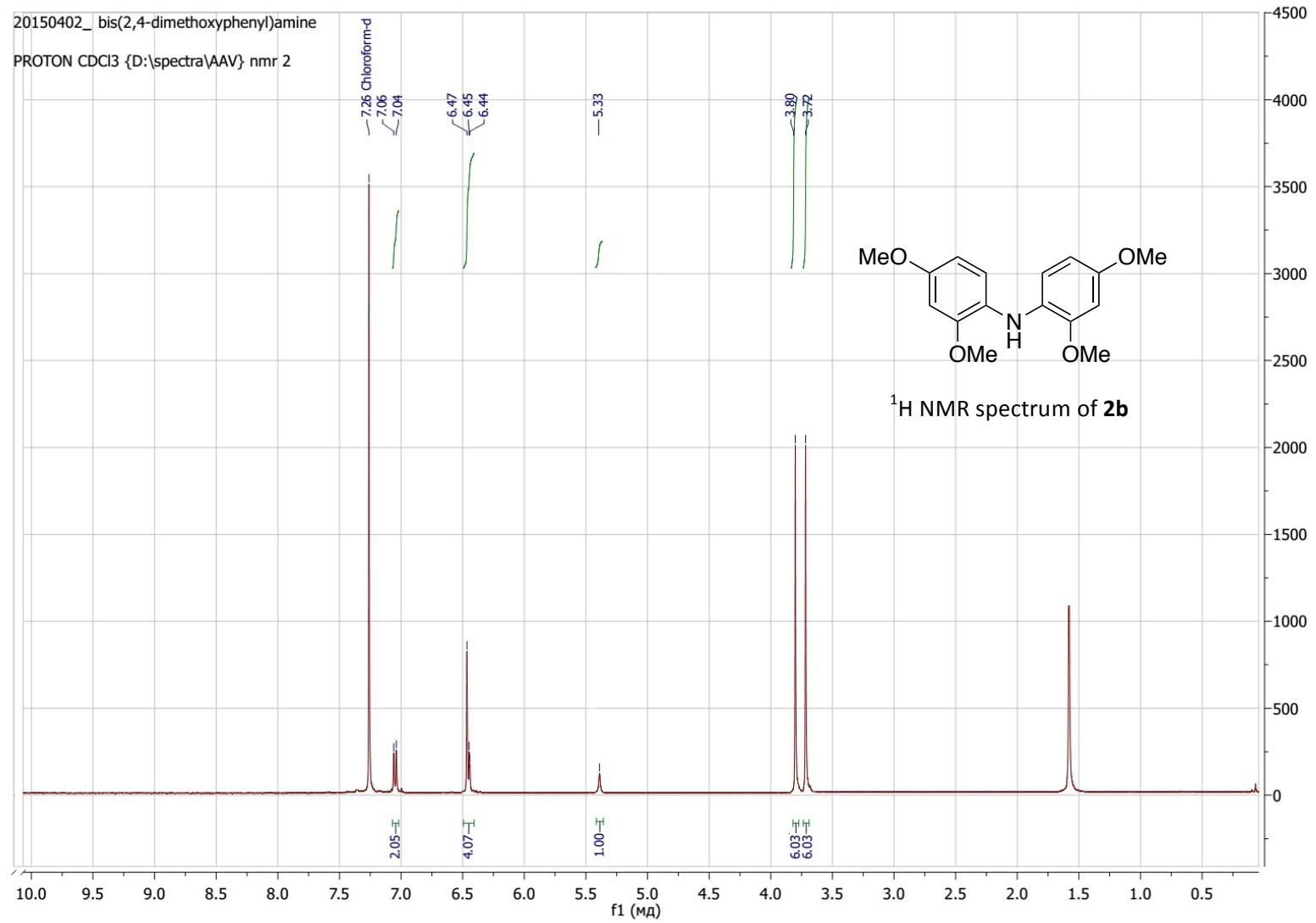
Supporting Information

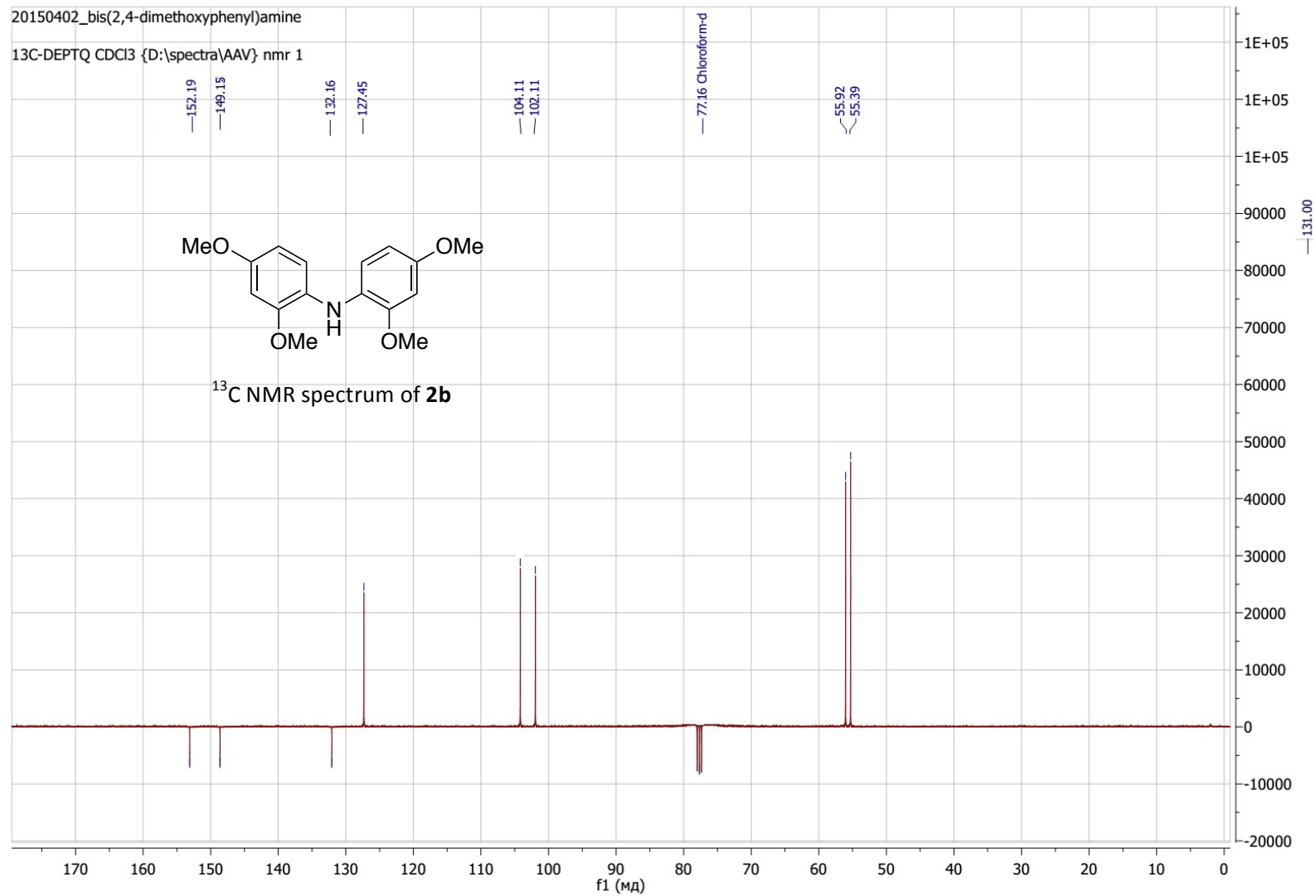
Table of Content

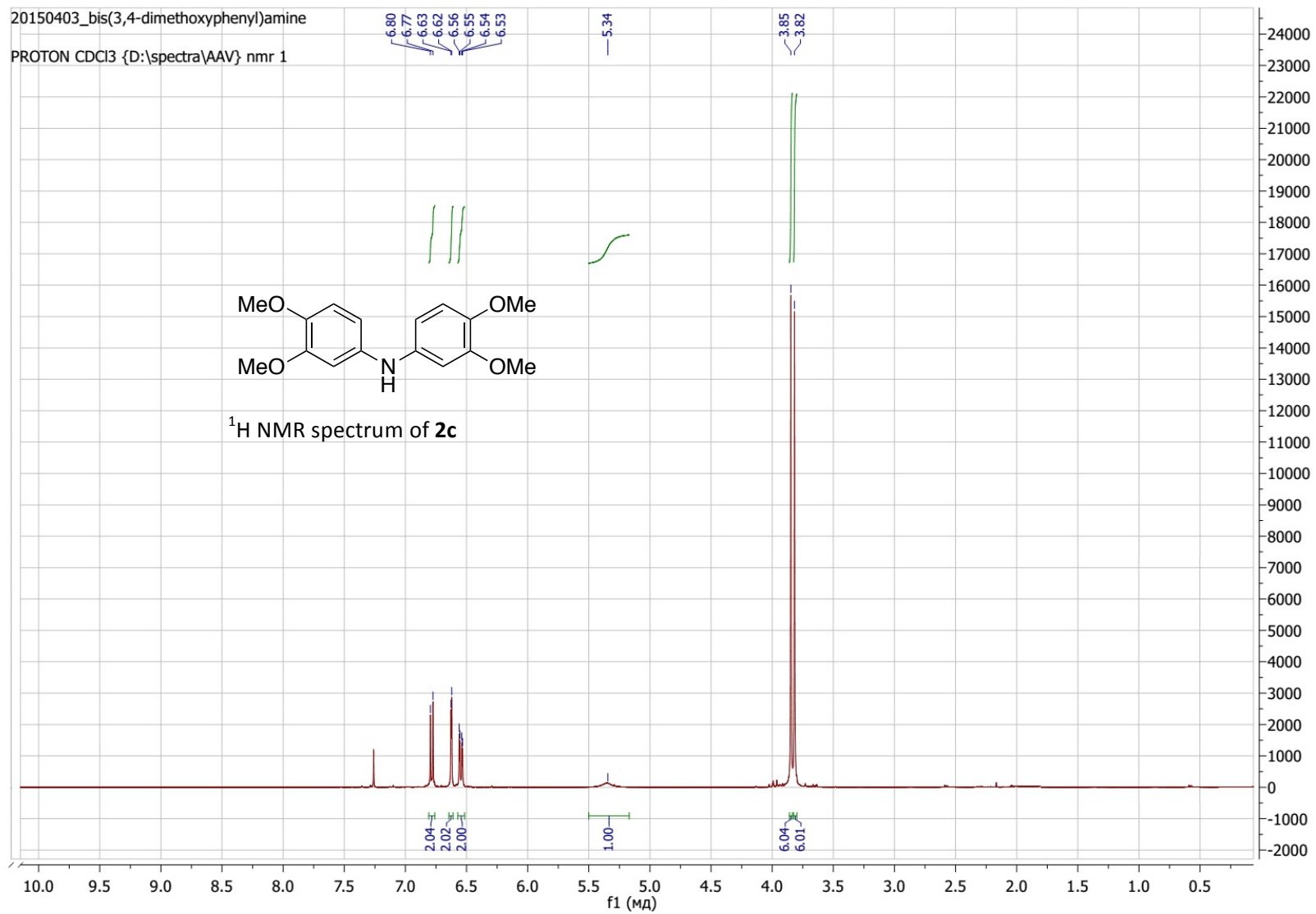
1H and 13C Spectral Charts	2
HRMS Spectral Charts	32
ORTEP Drawings for X-Ray Crystallography	38

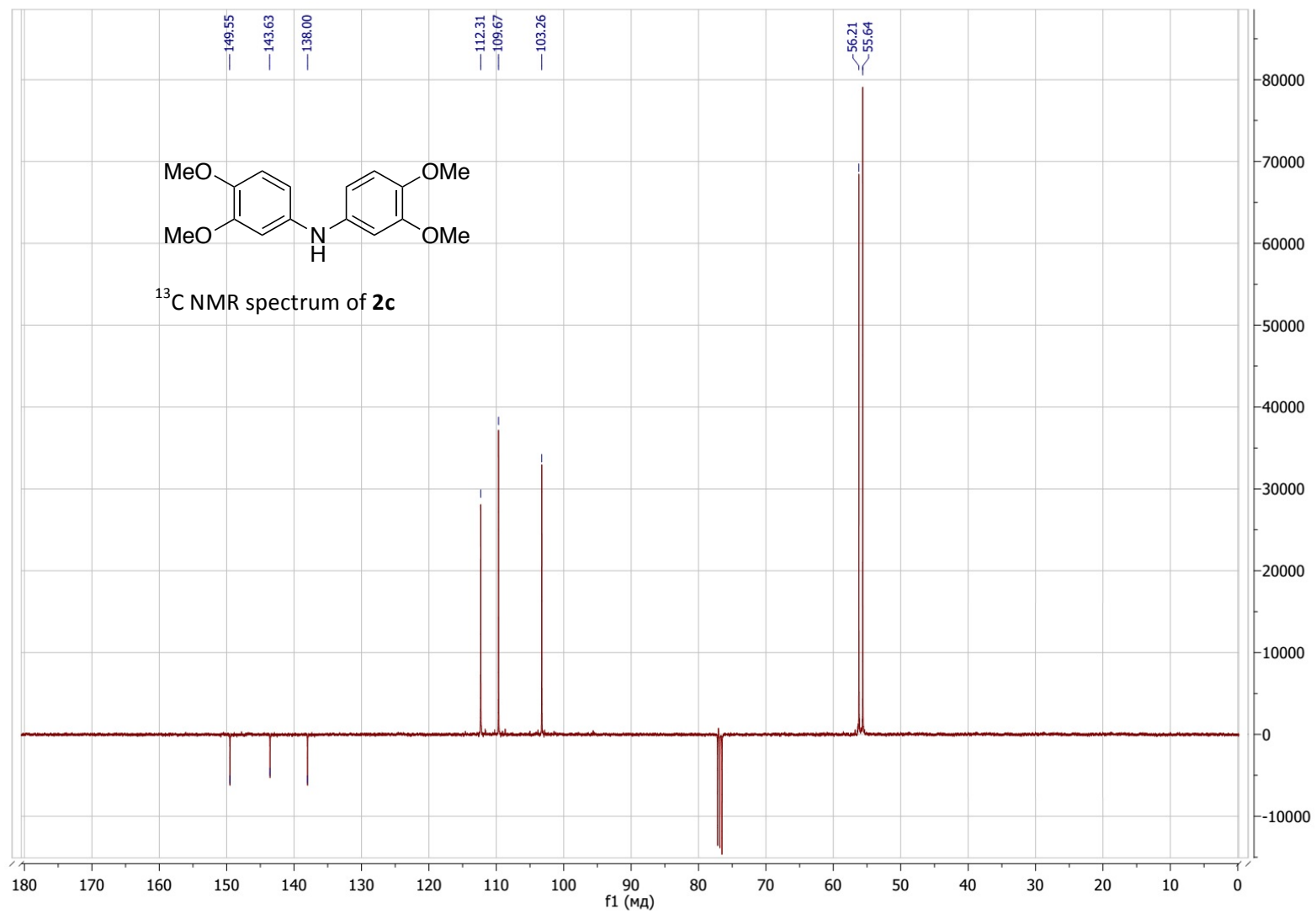


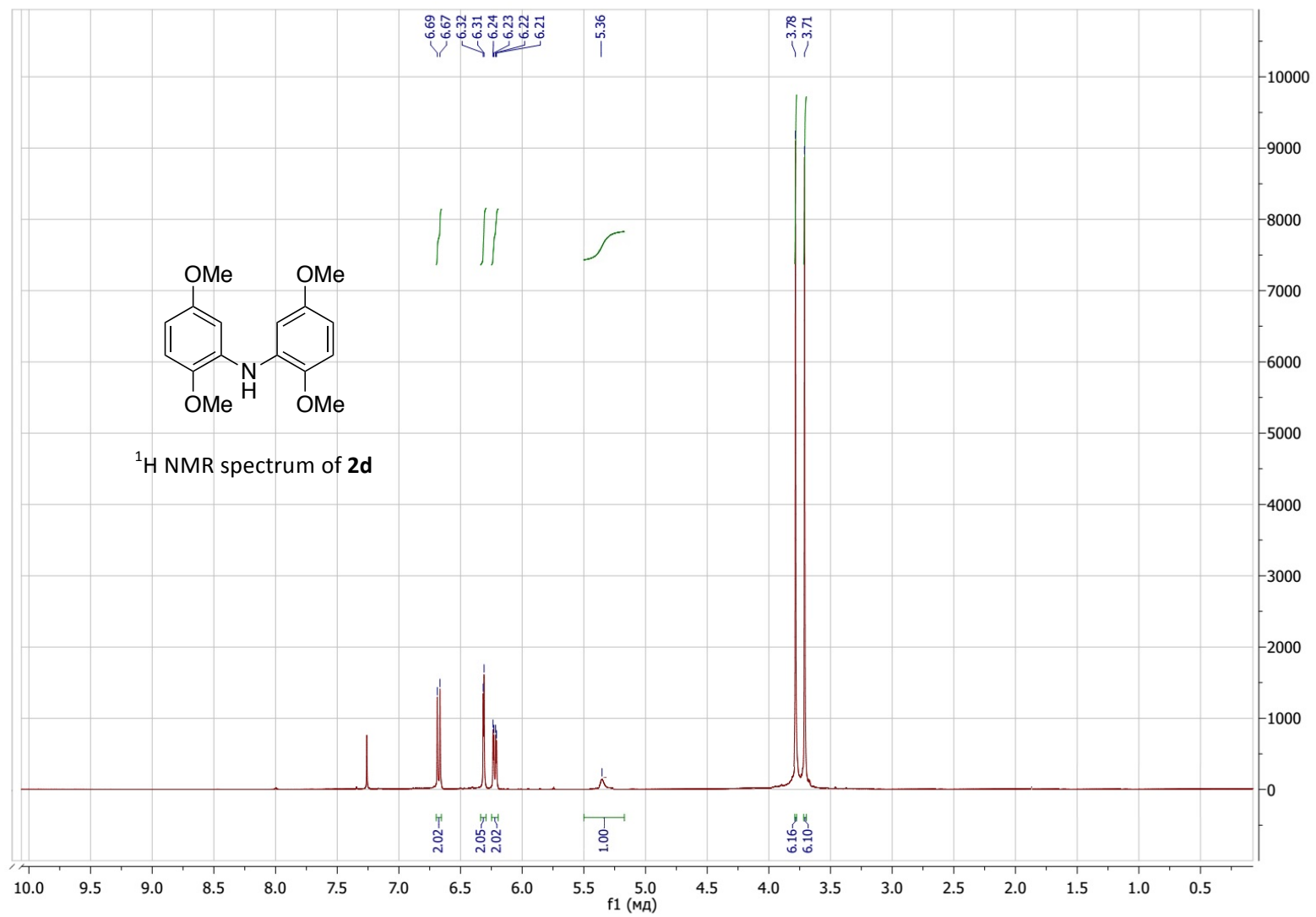


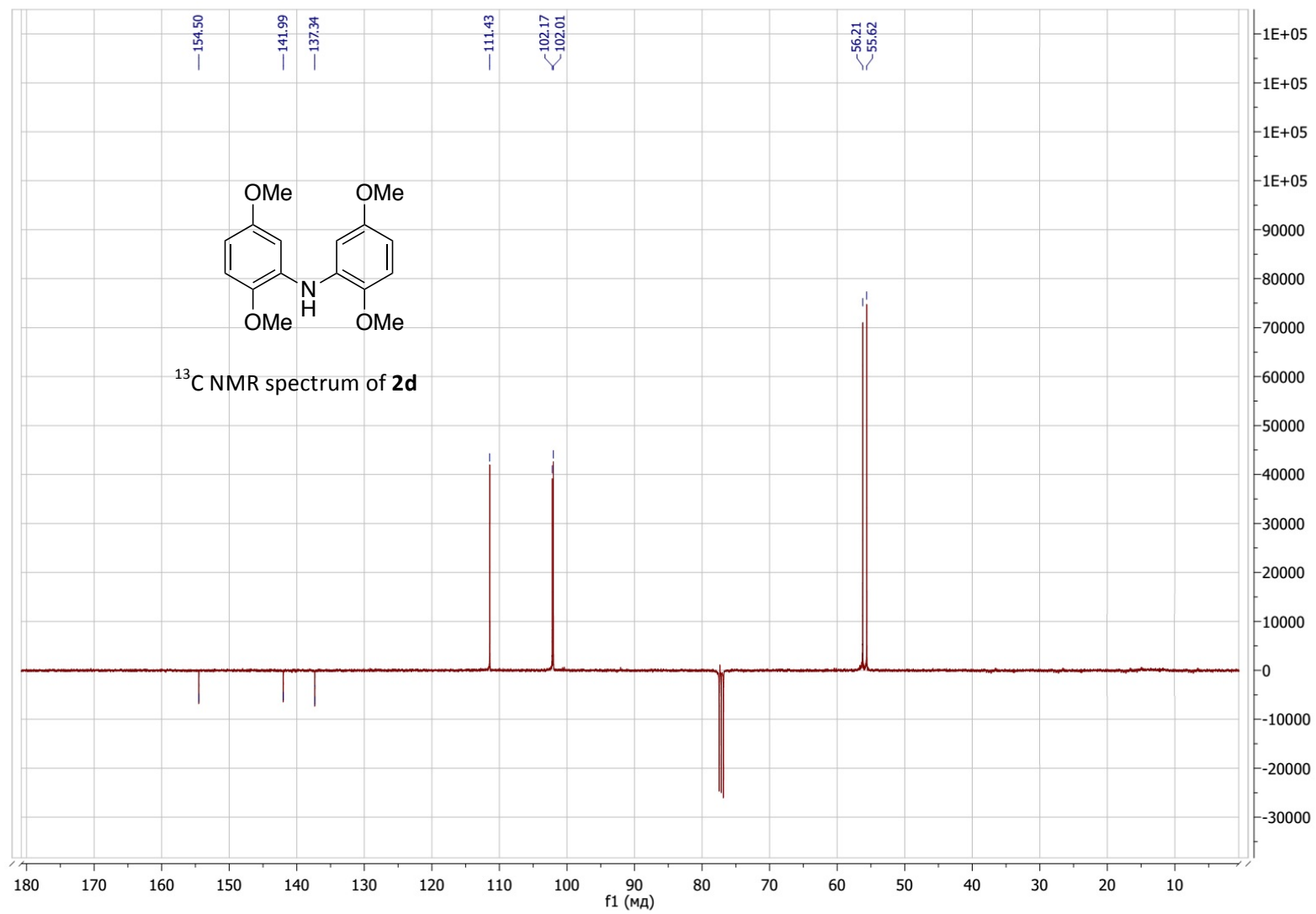


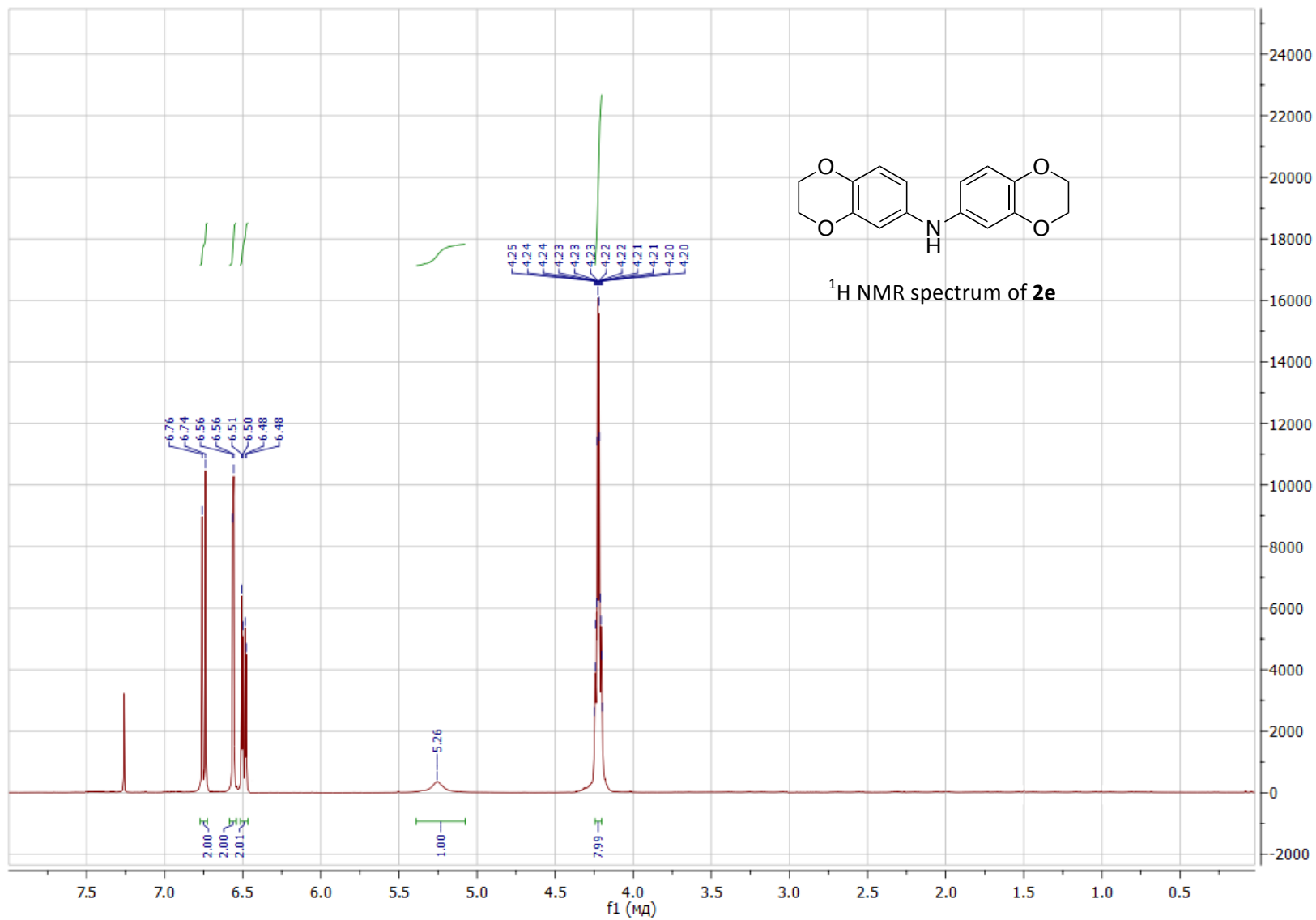


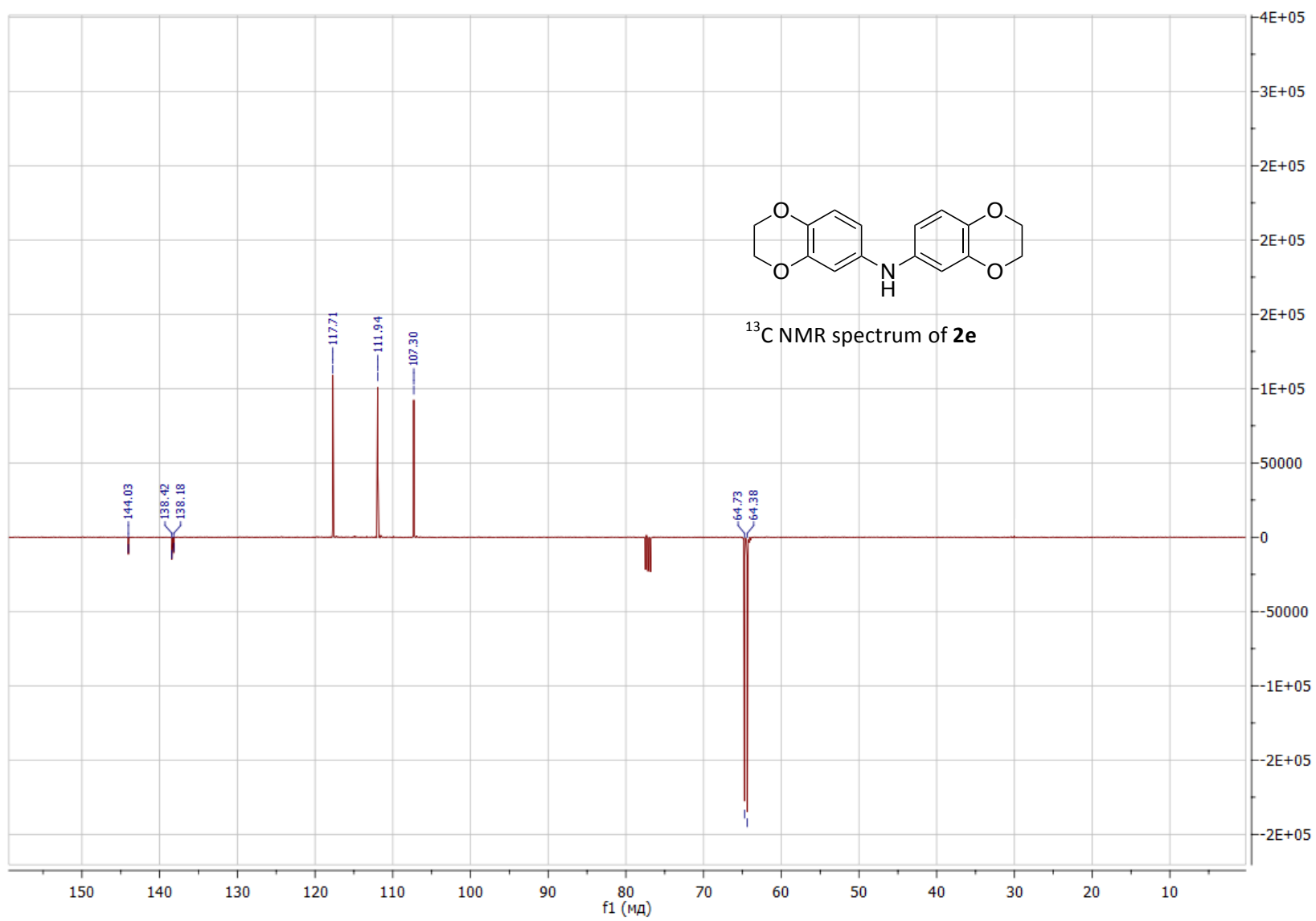


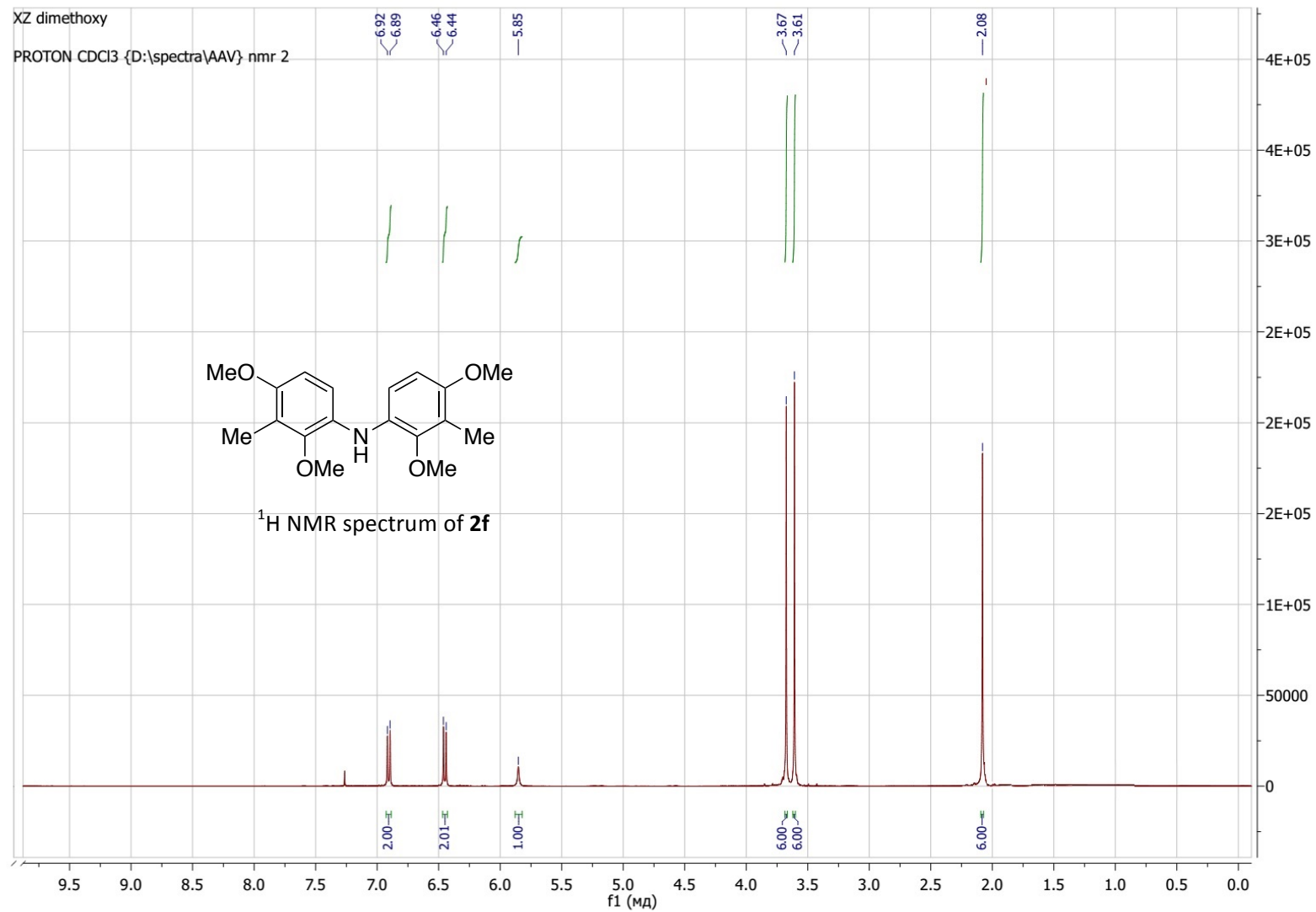


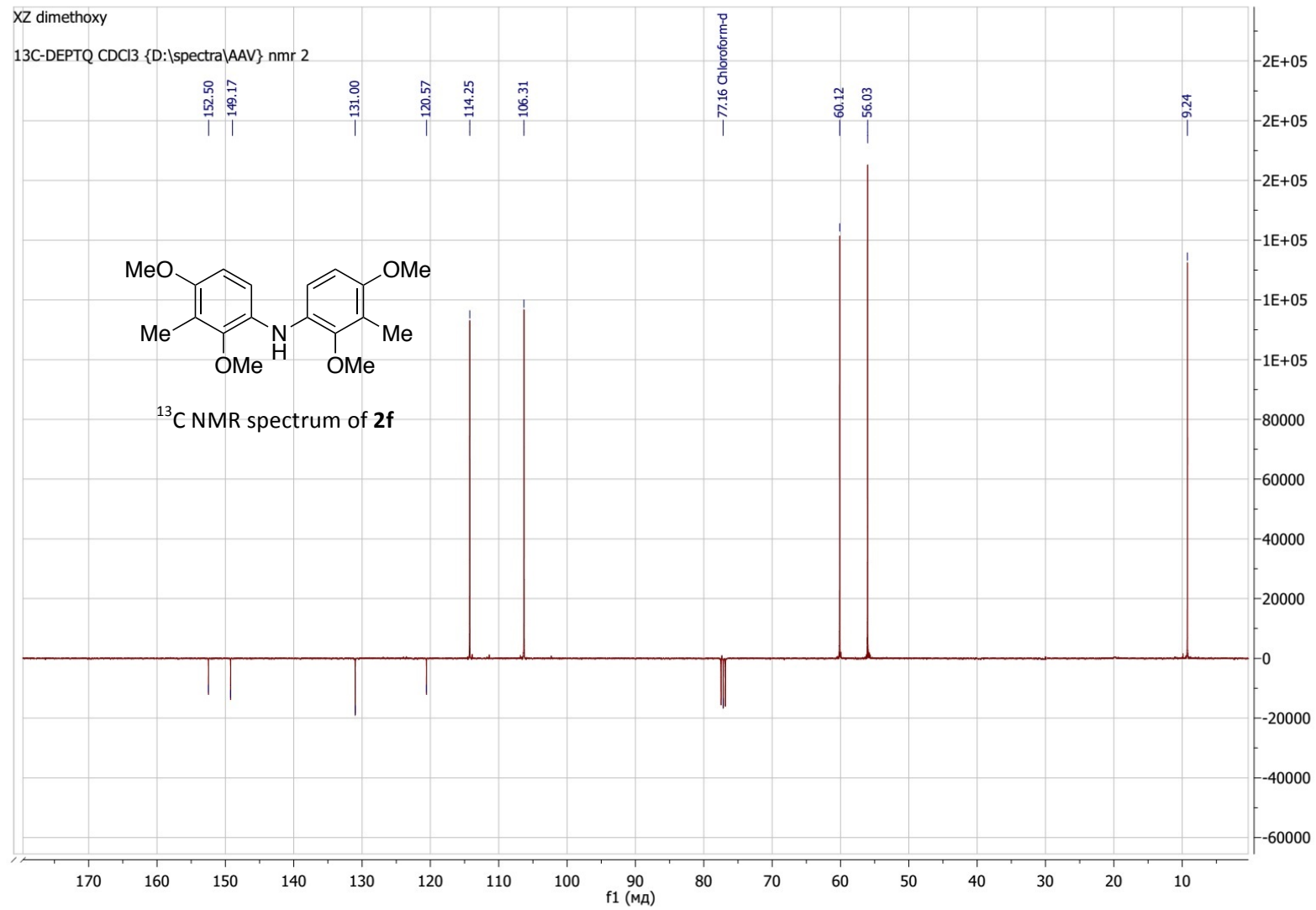


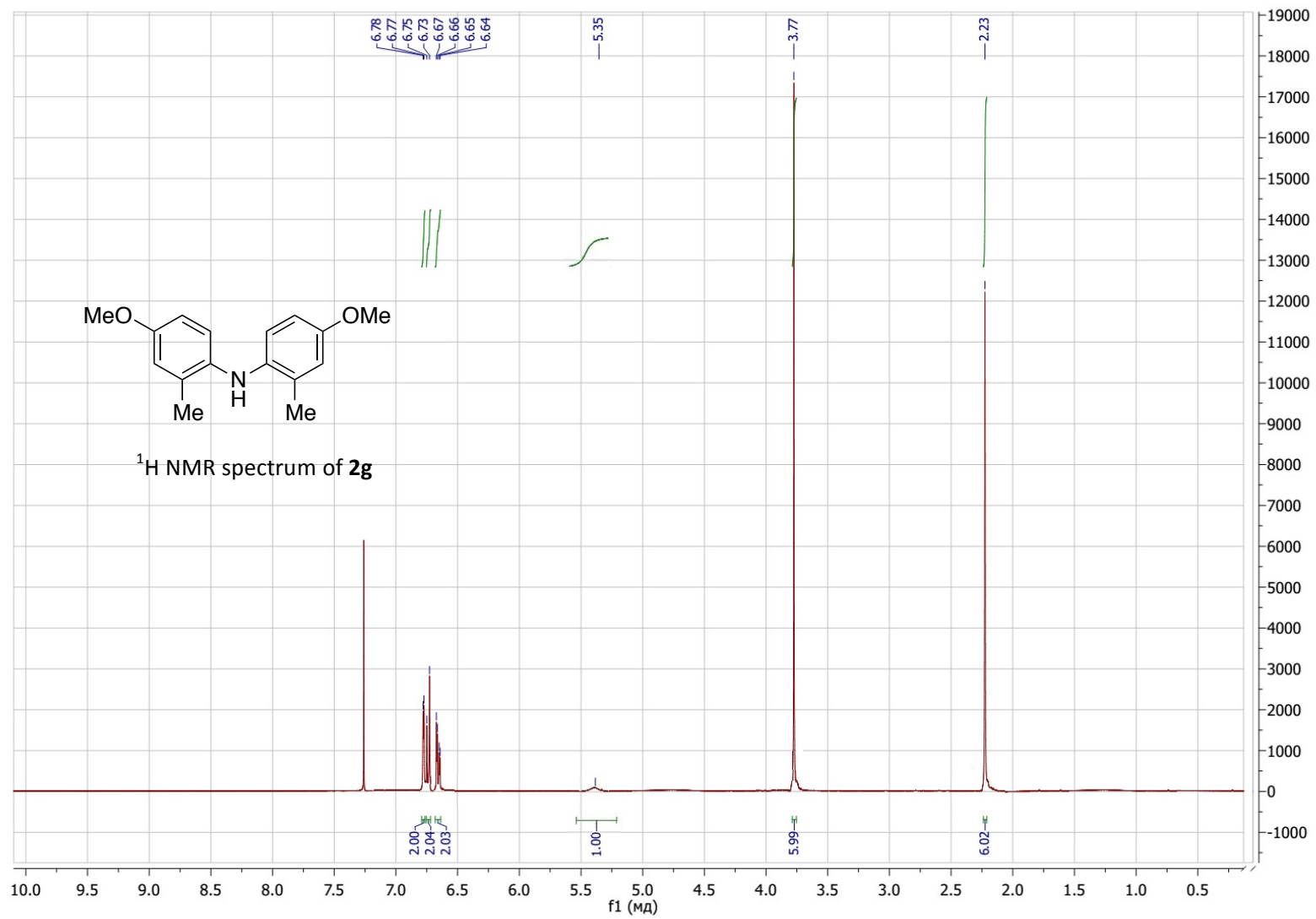


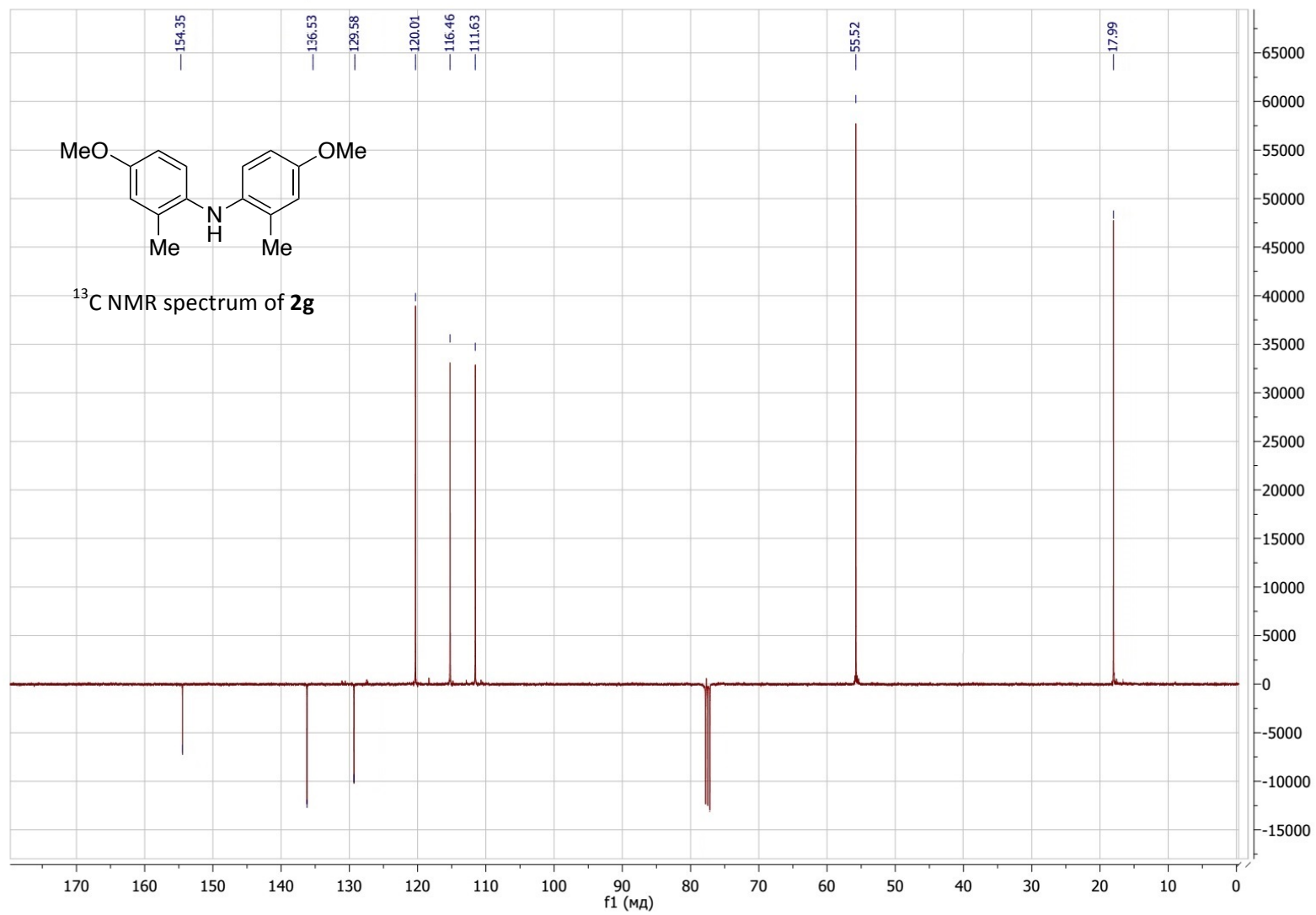


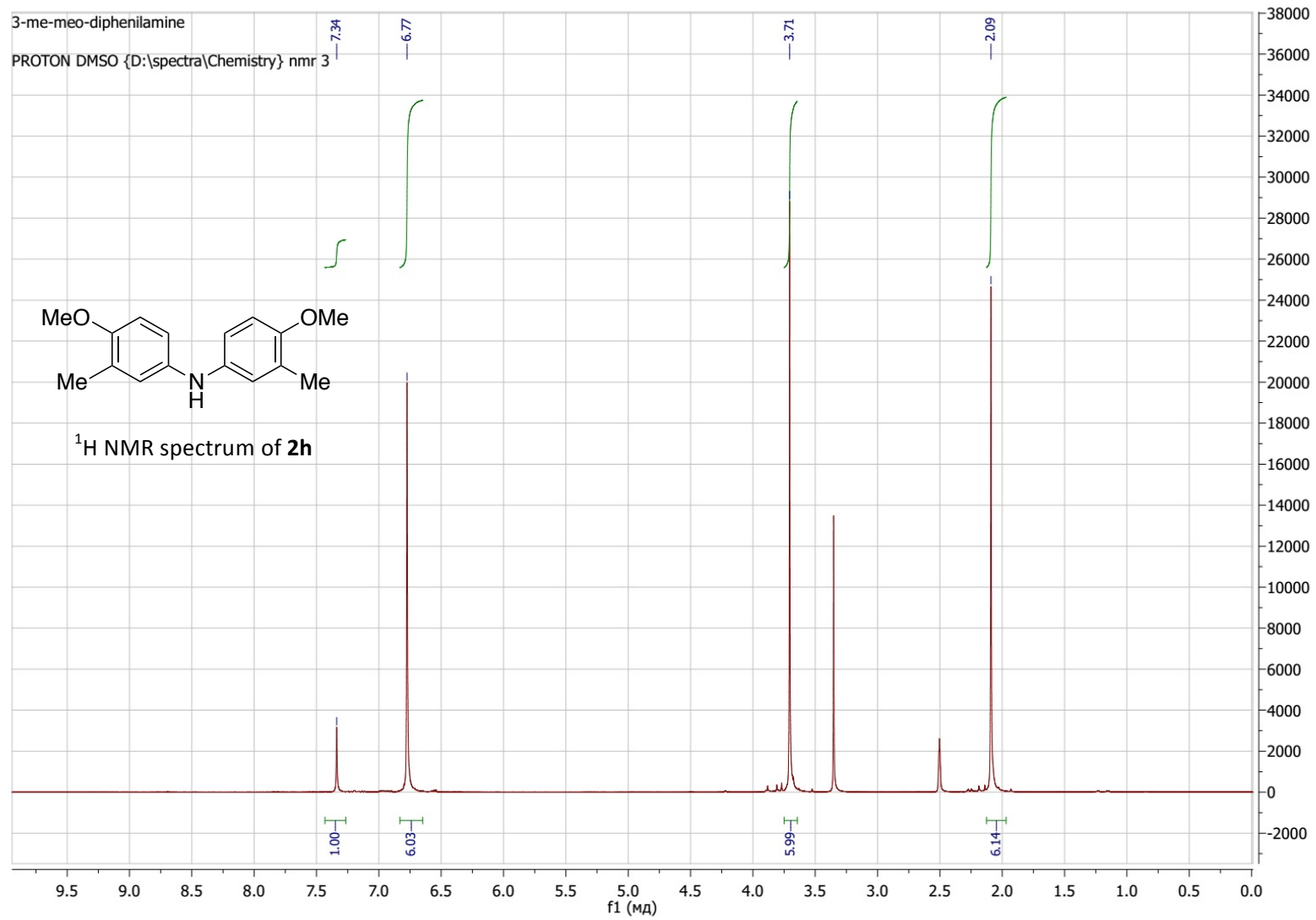


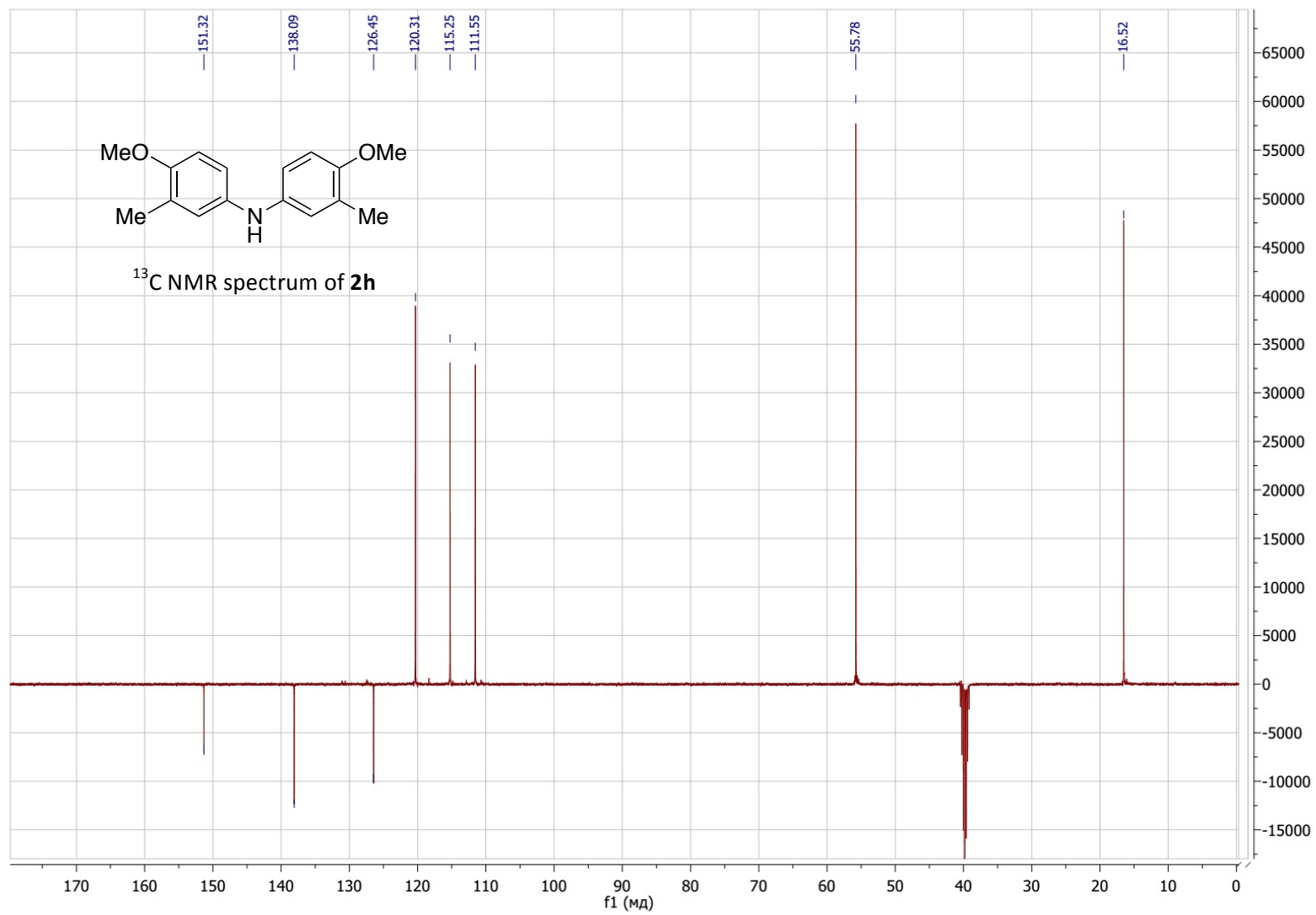


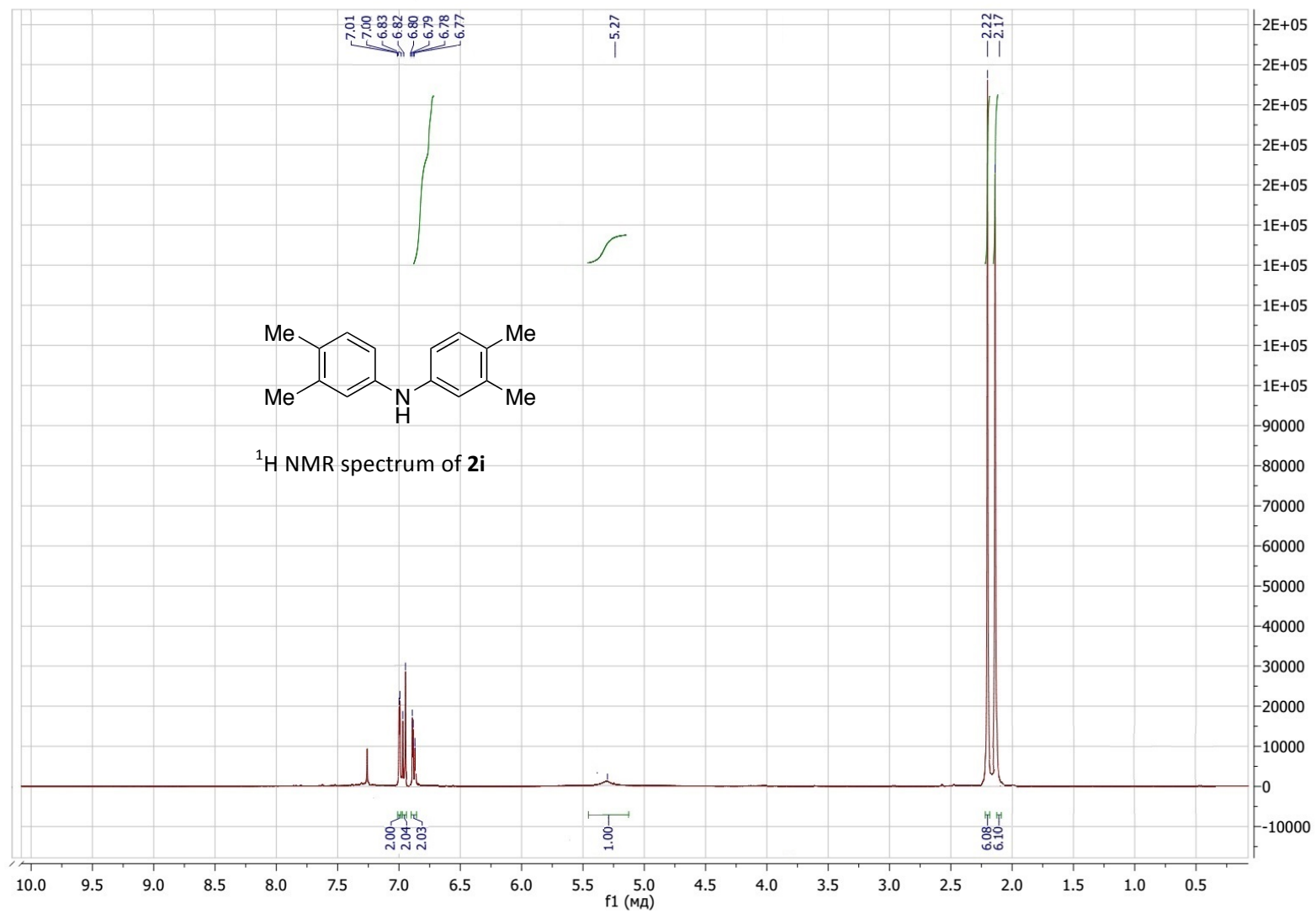


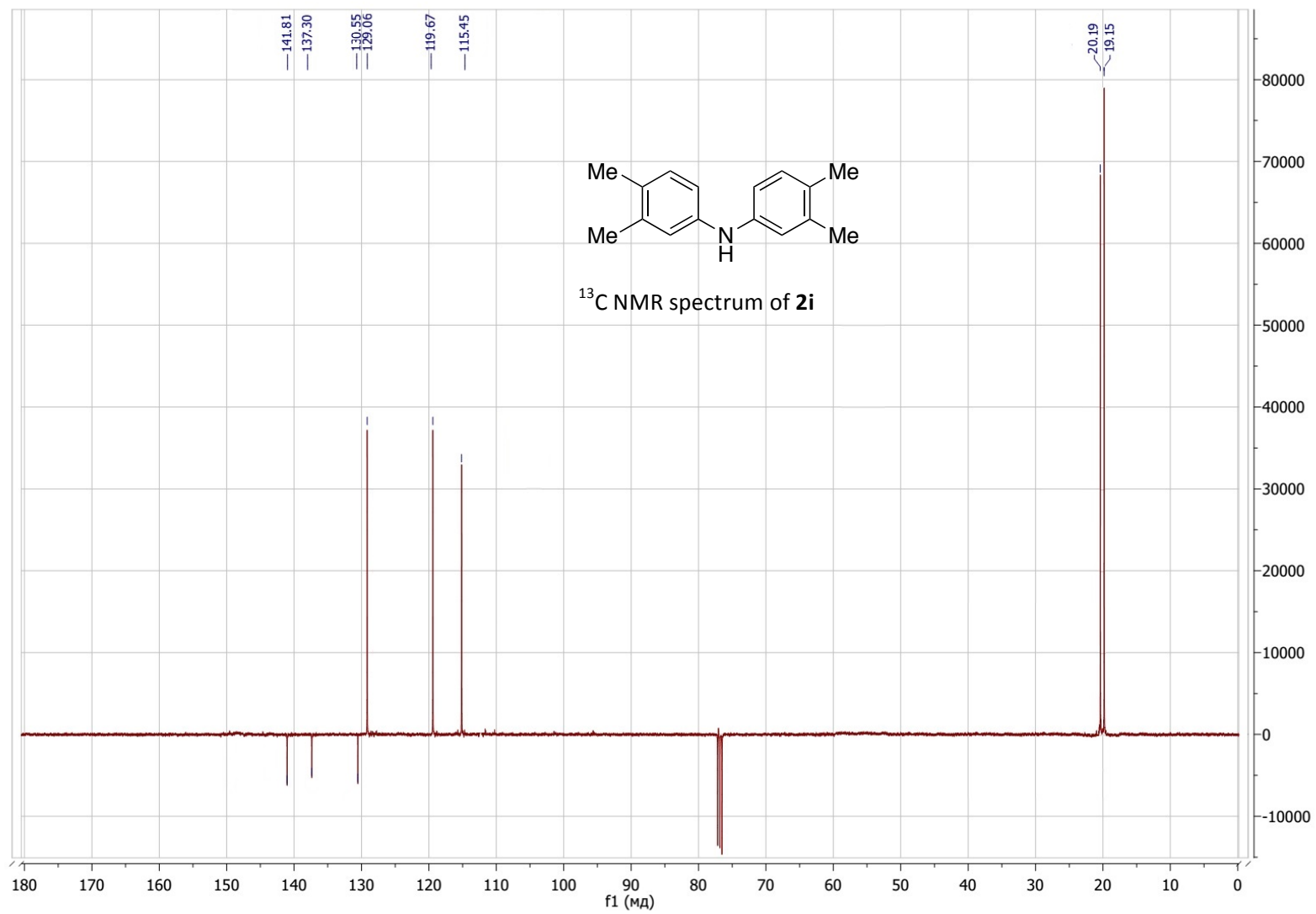


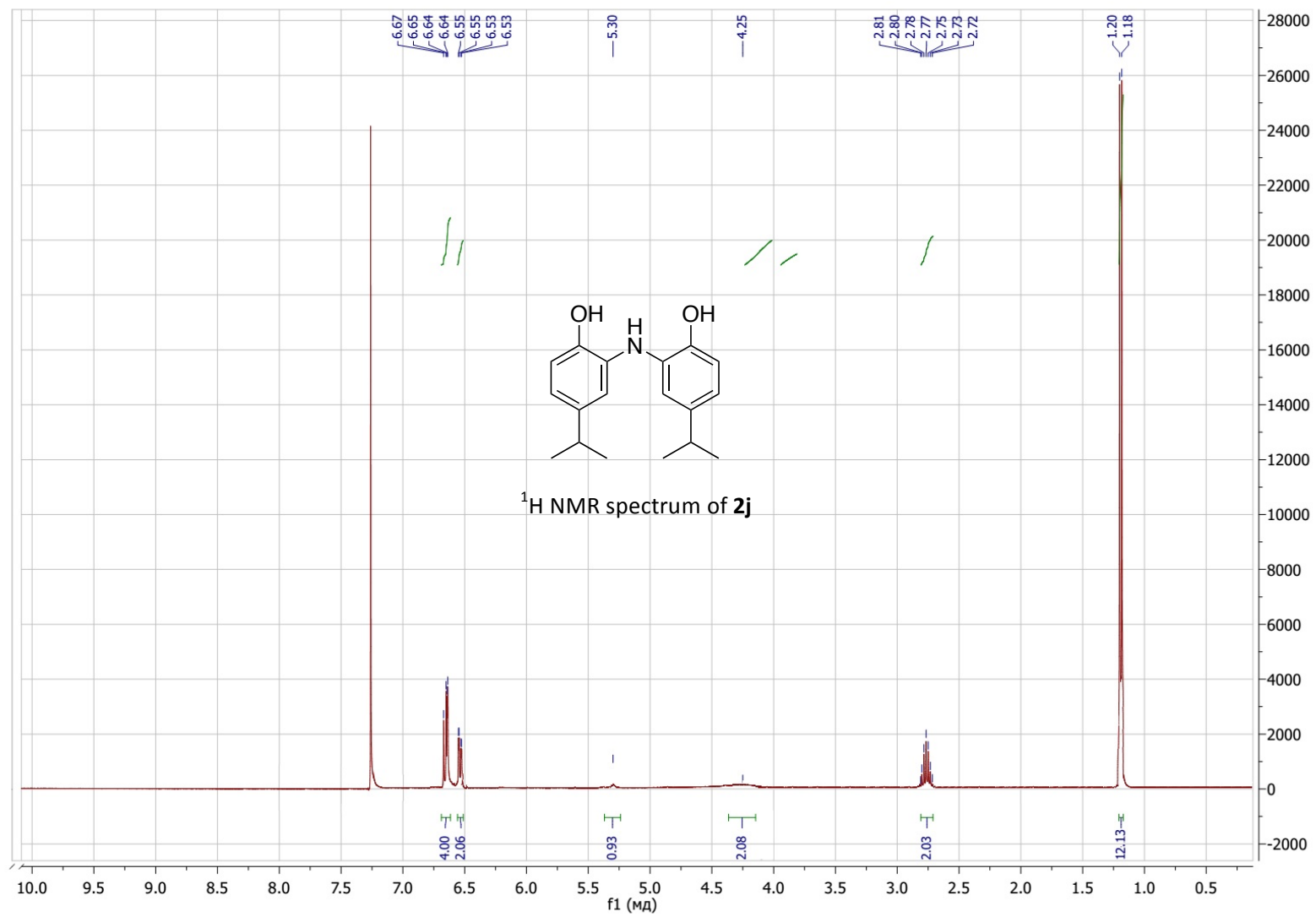


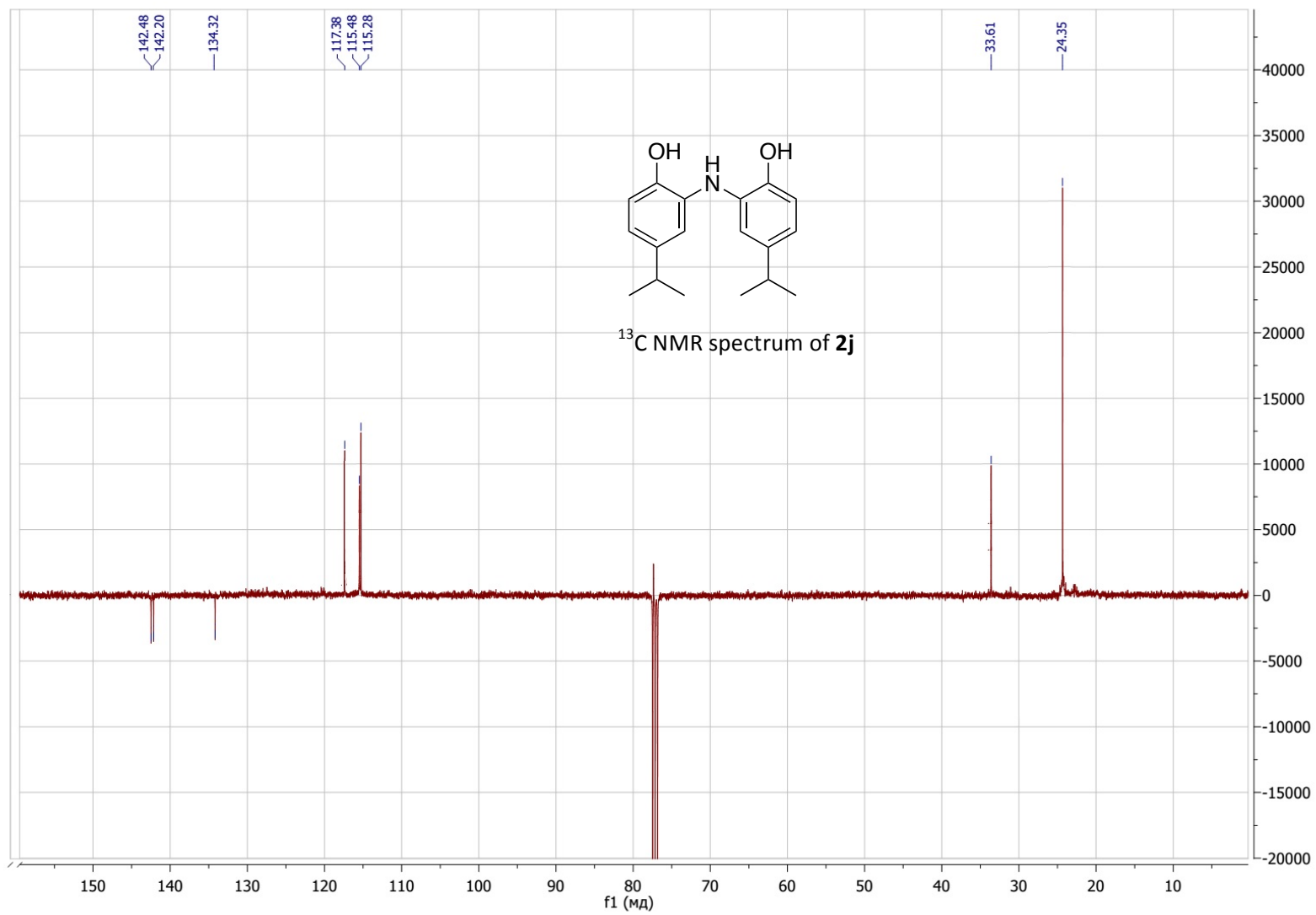


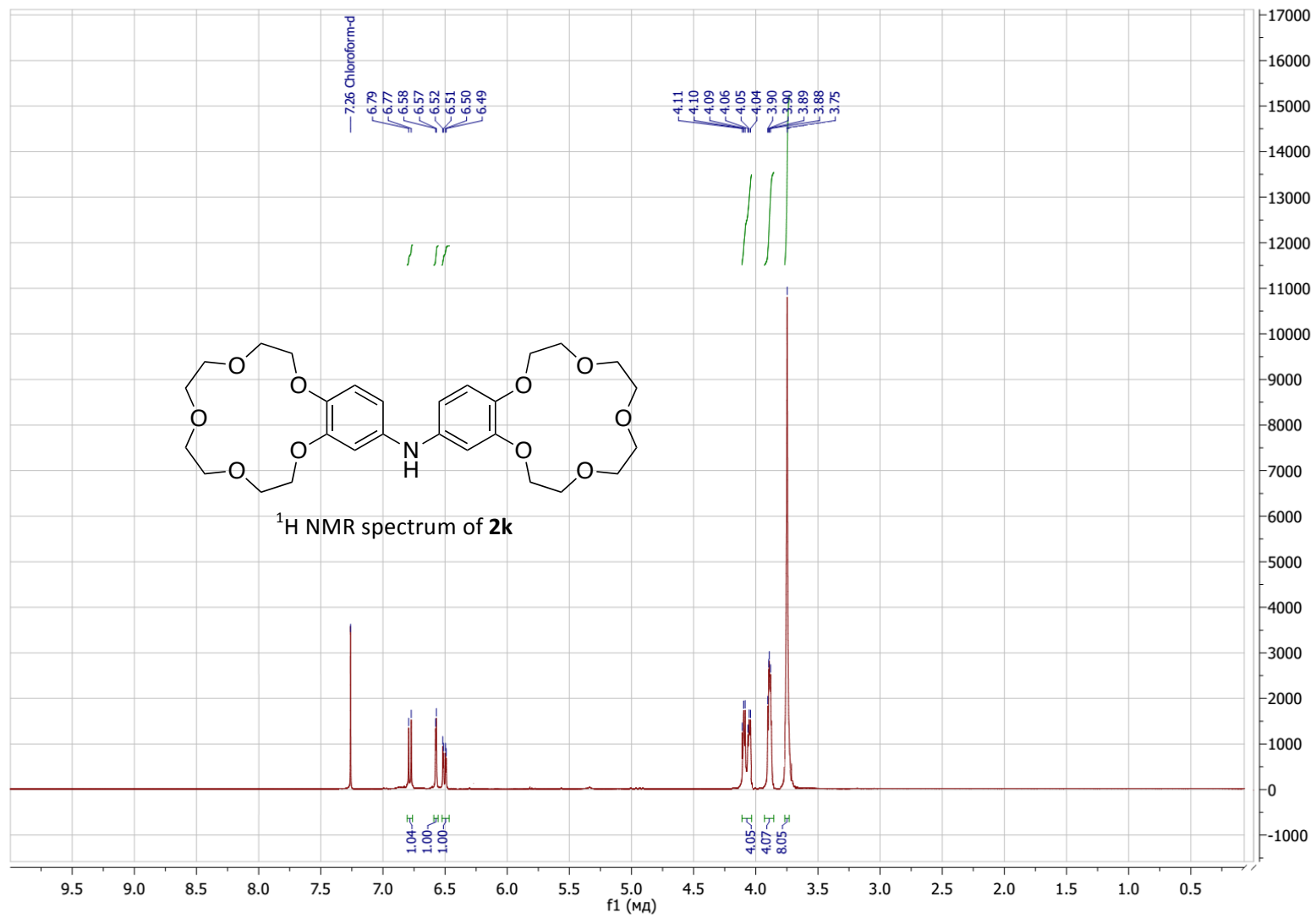


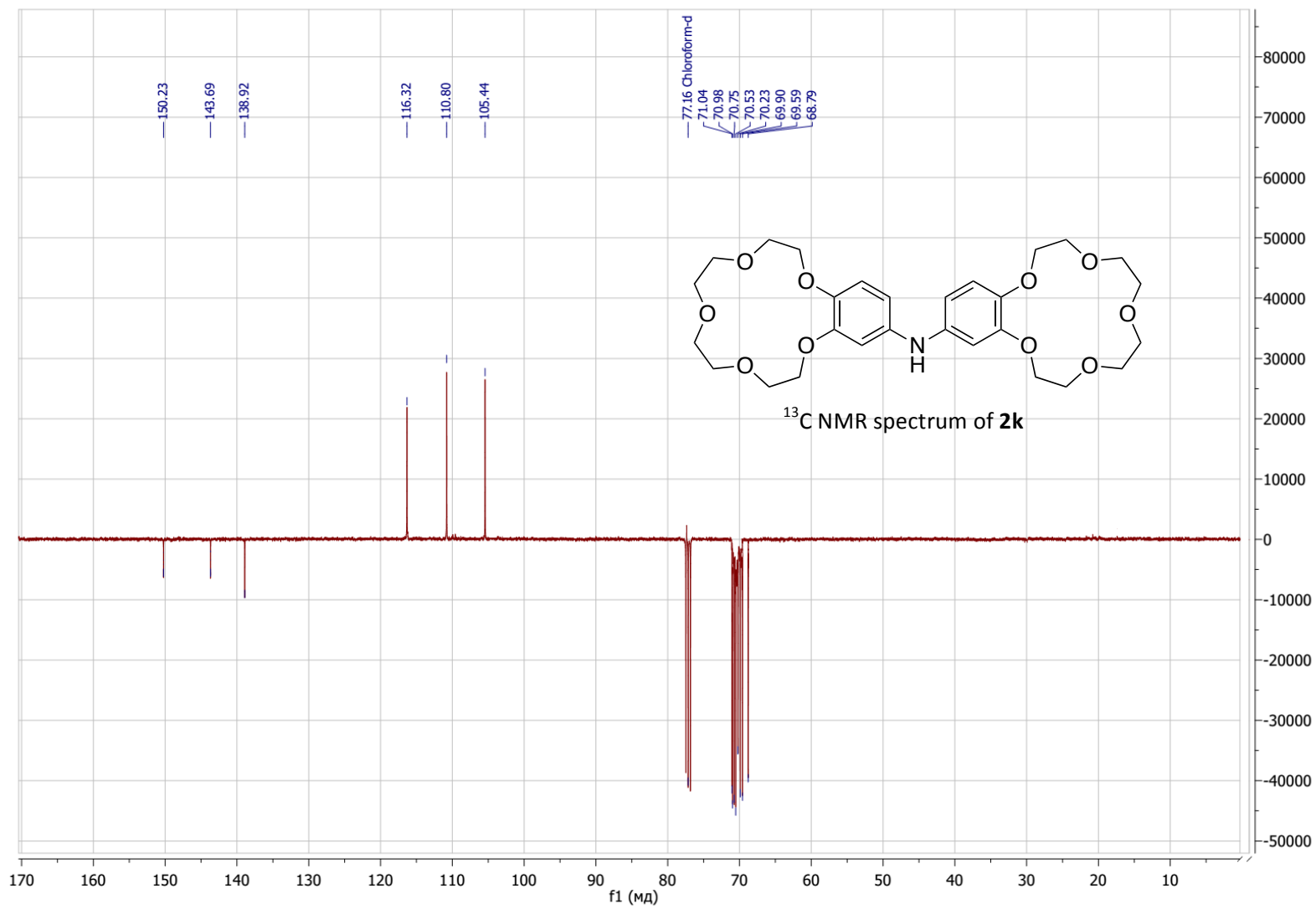


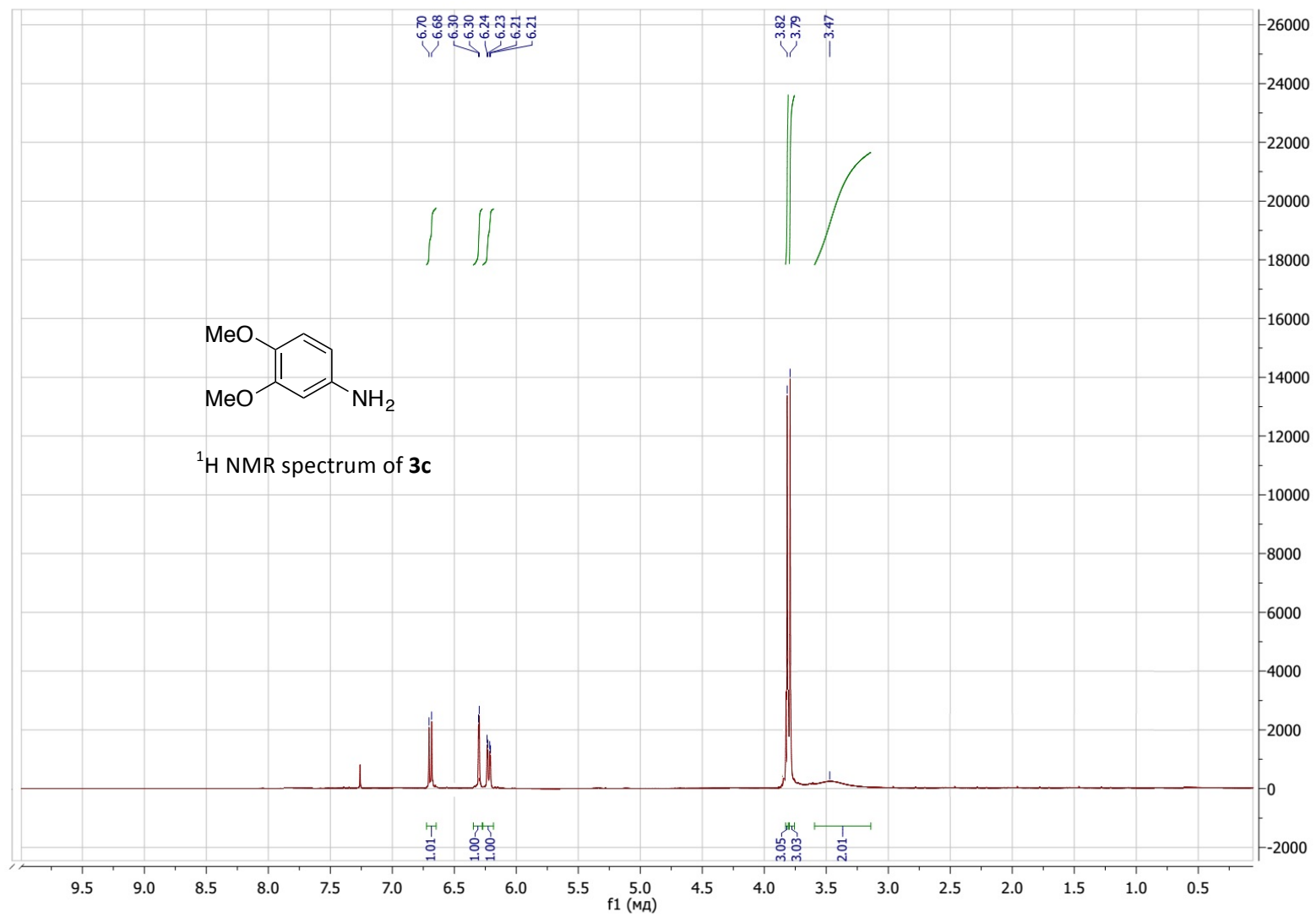


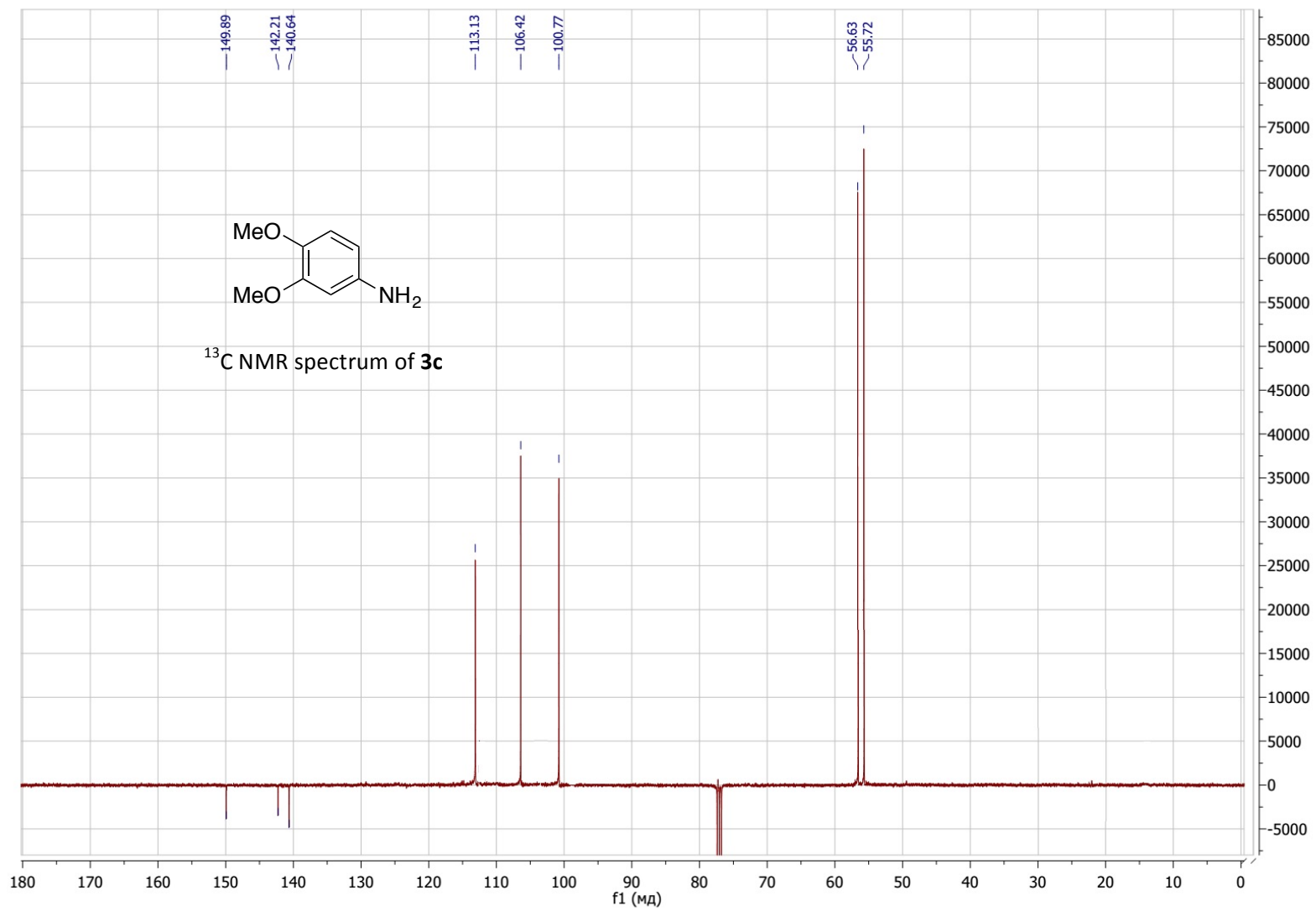


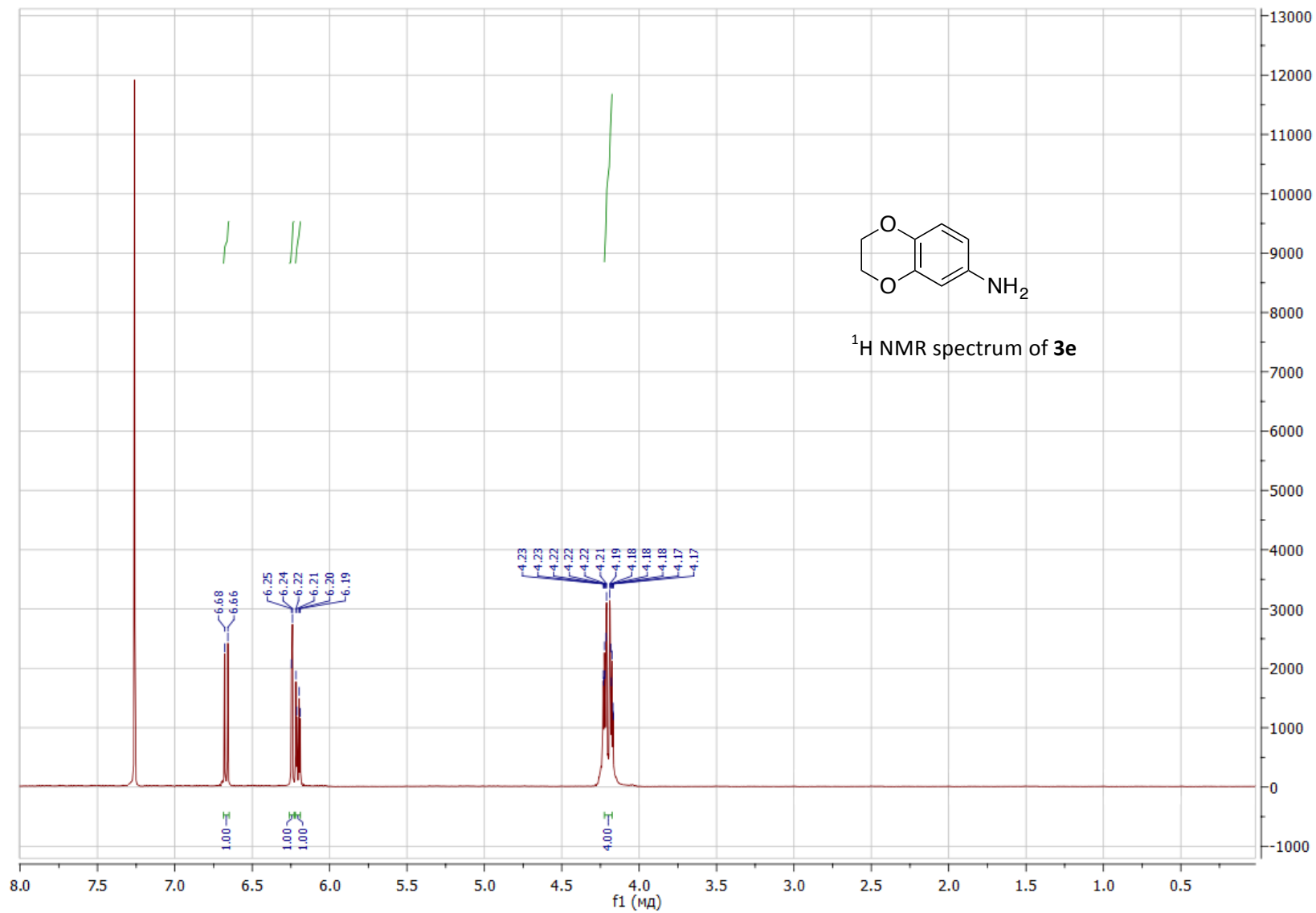


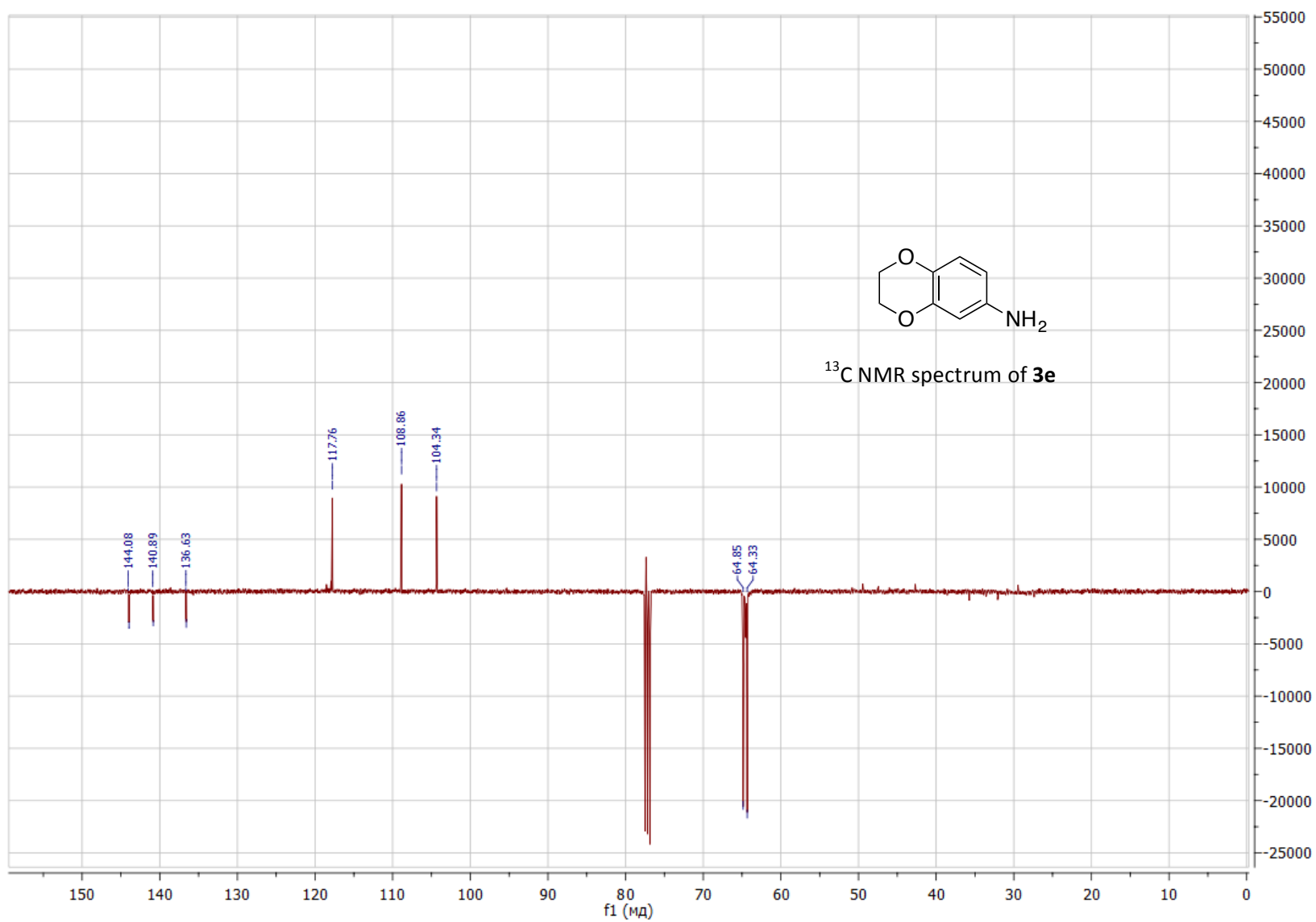


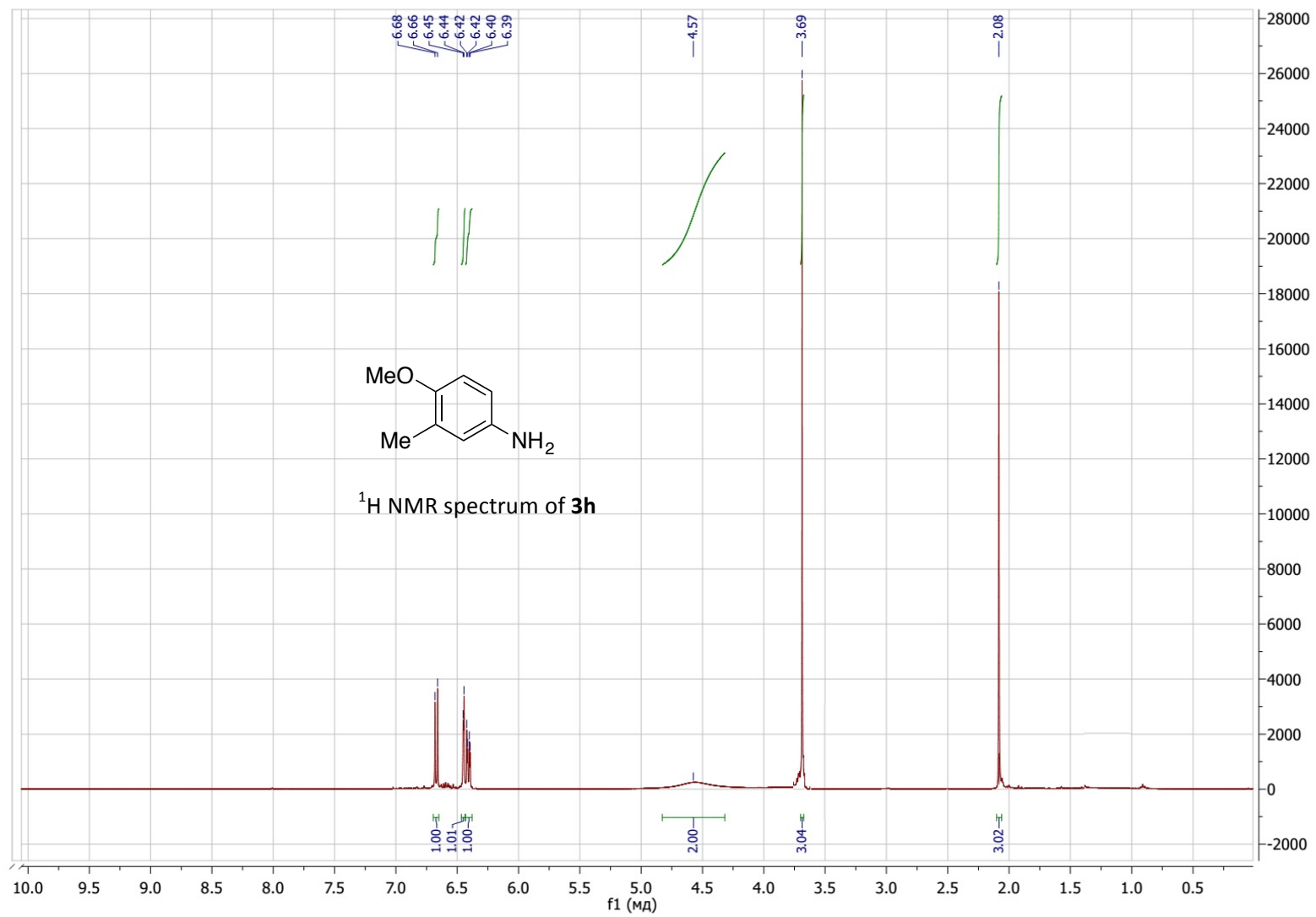


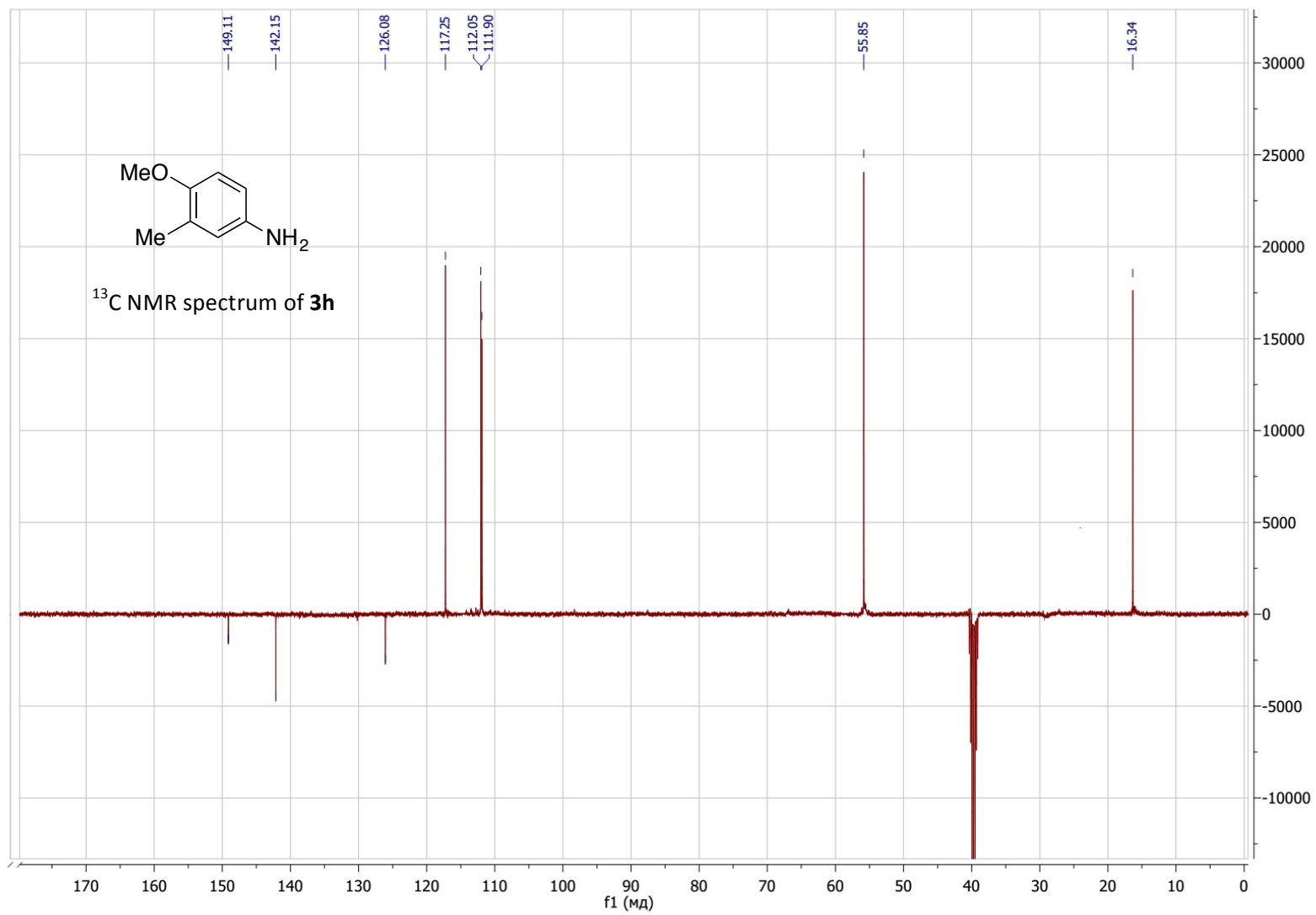


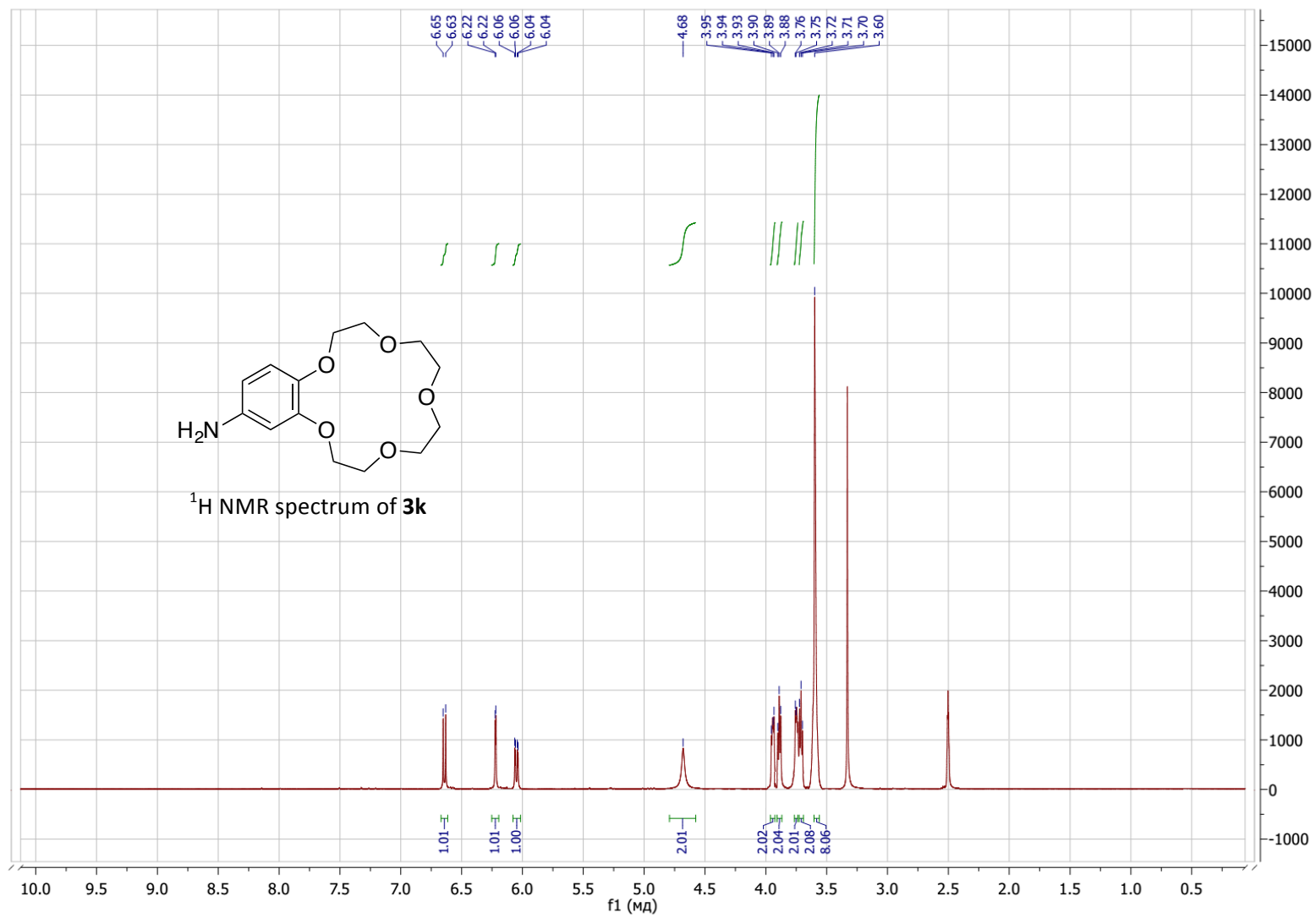


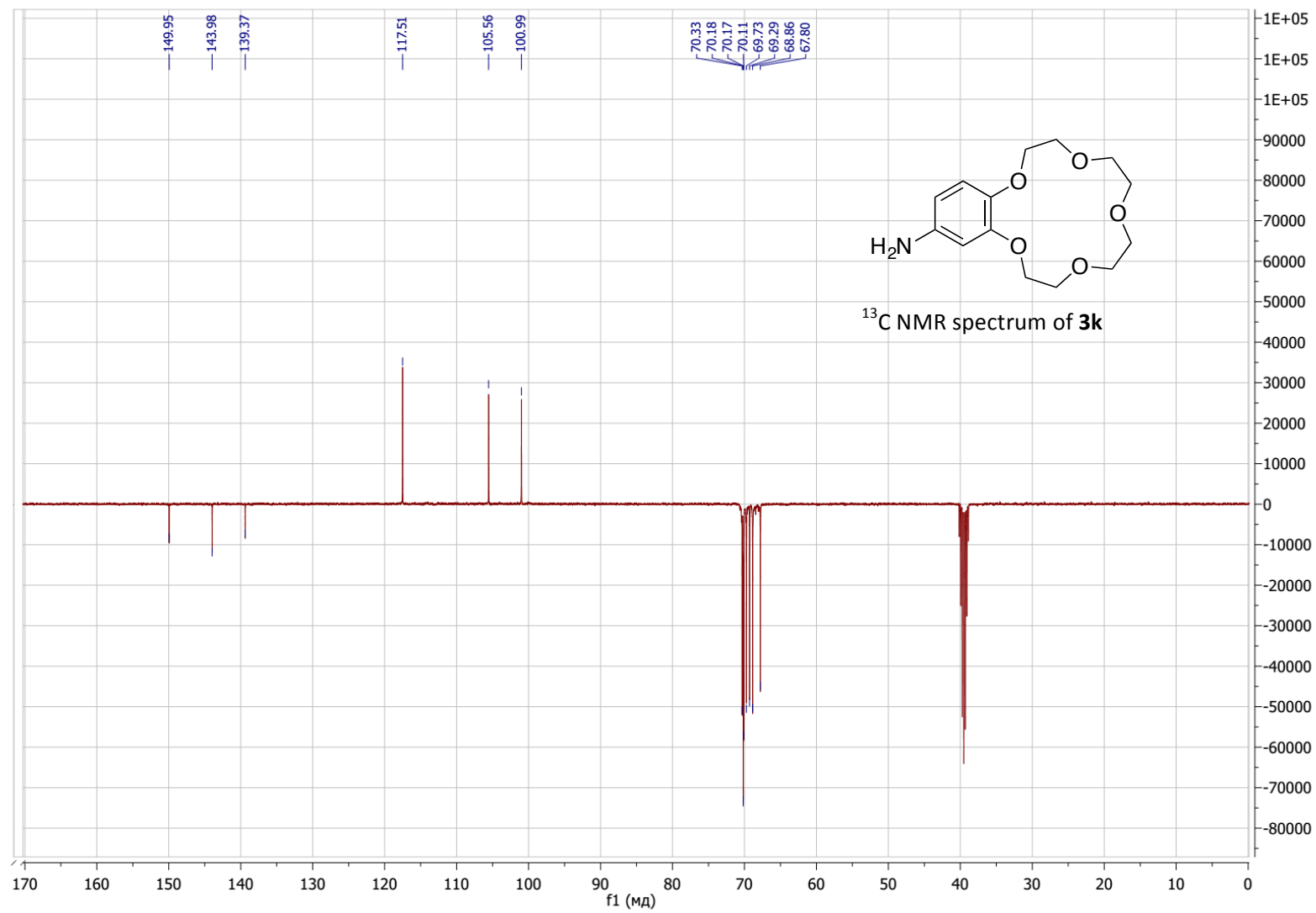




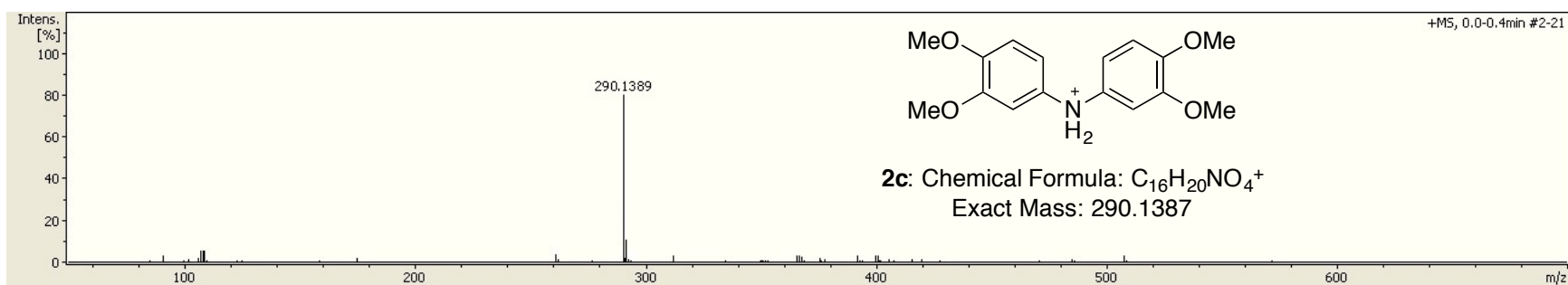
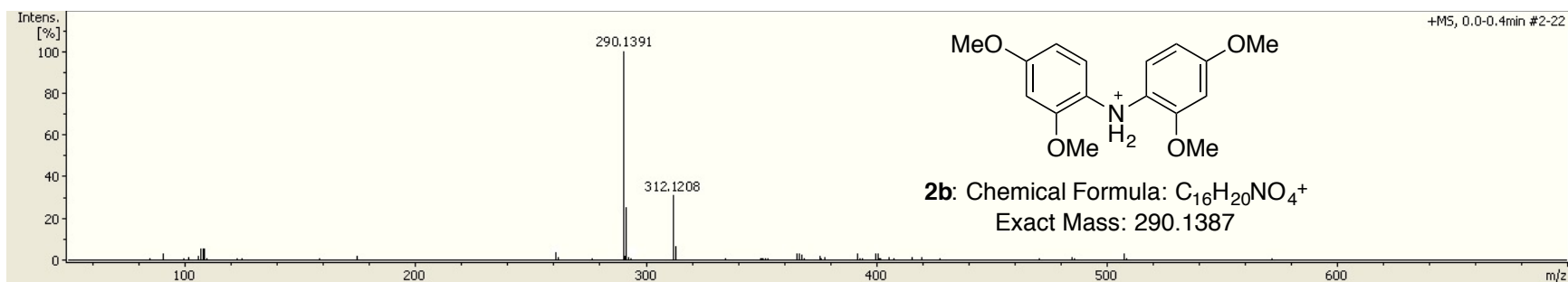
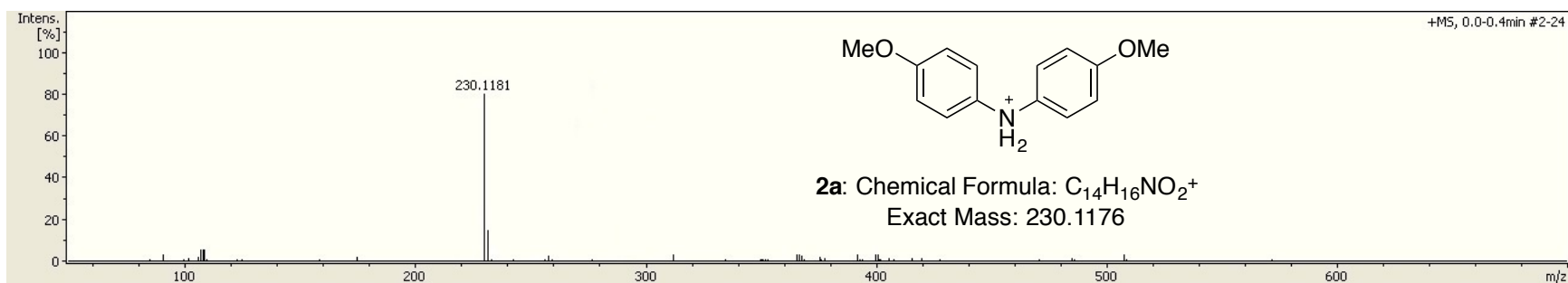


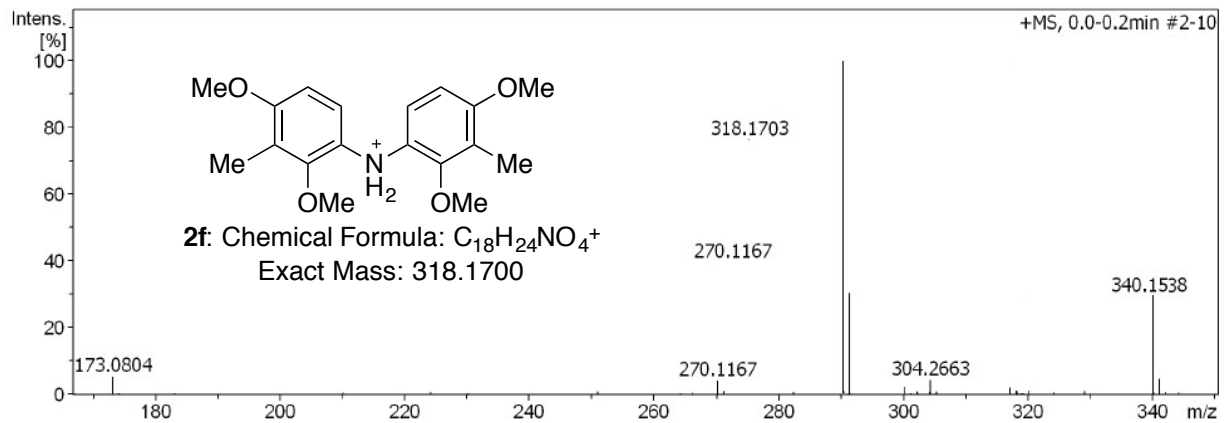
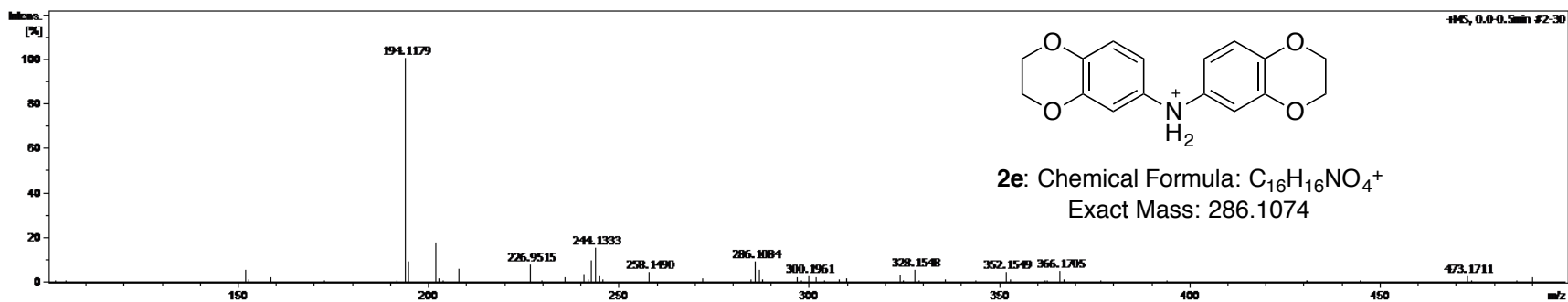
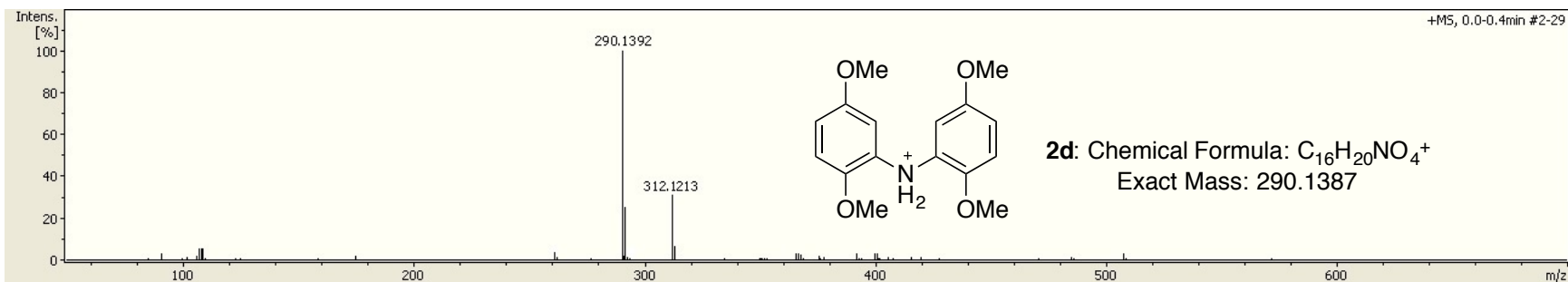


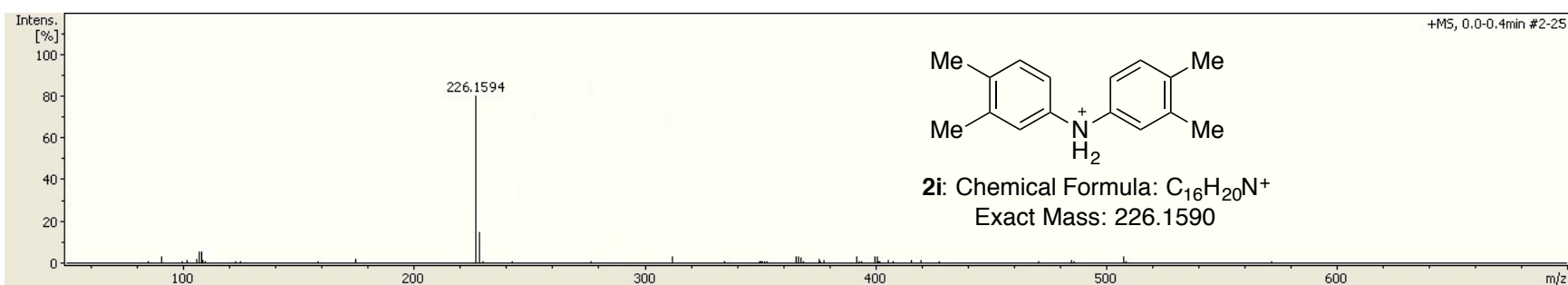
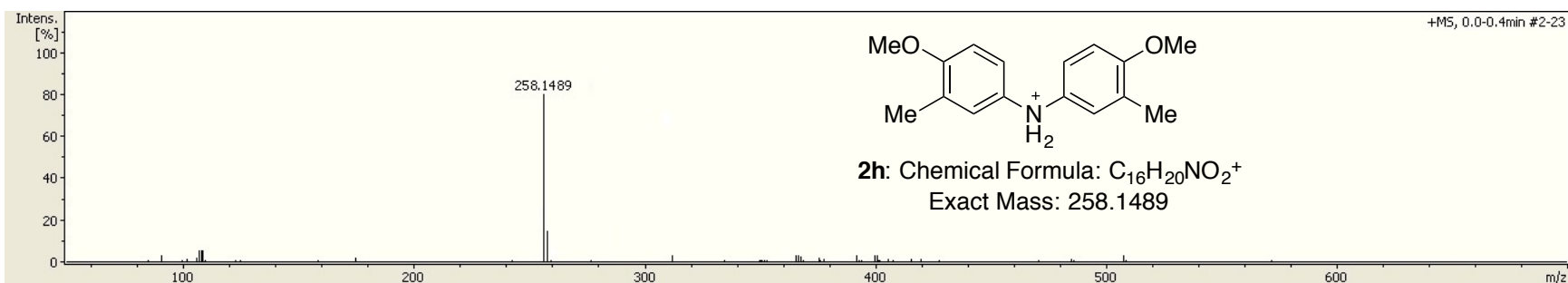
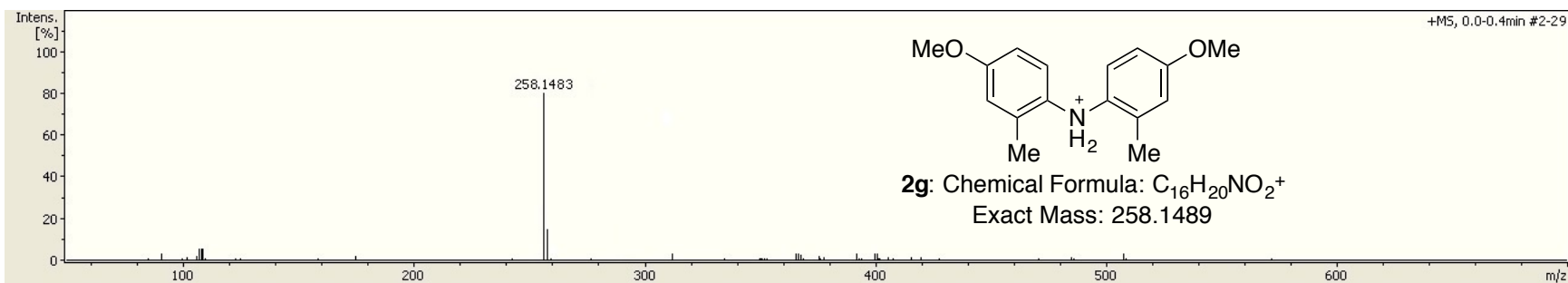


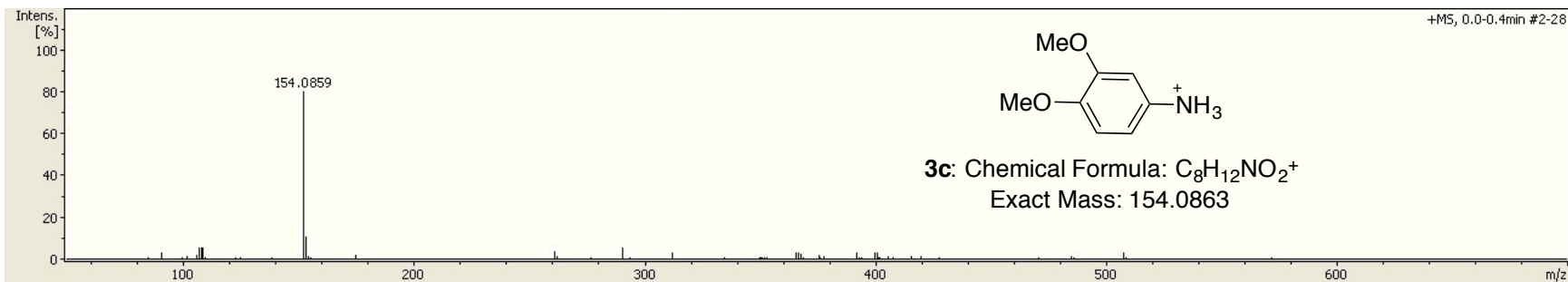
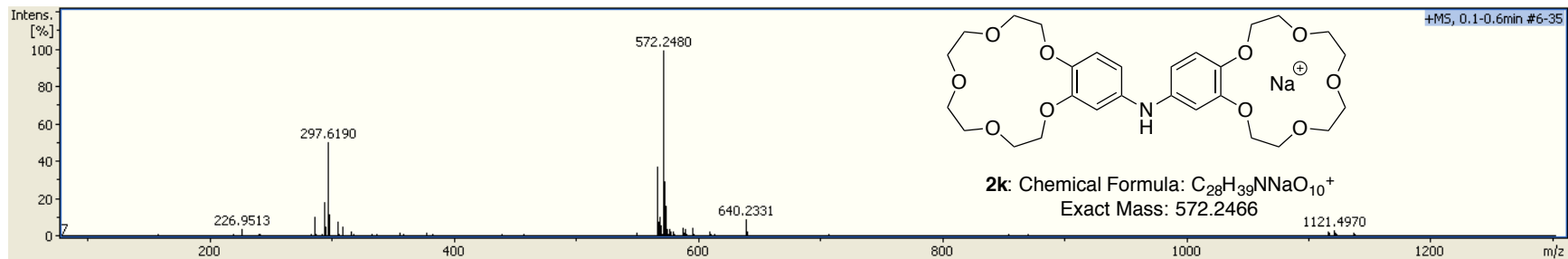
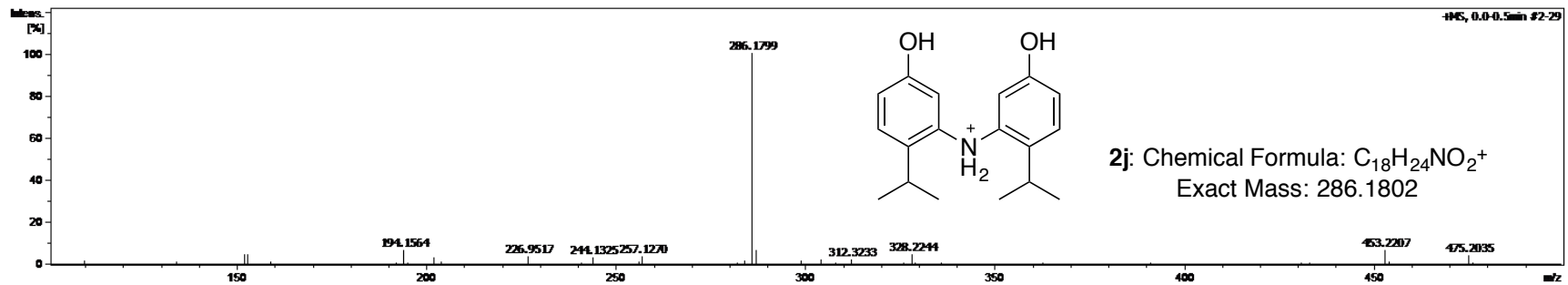


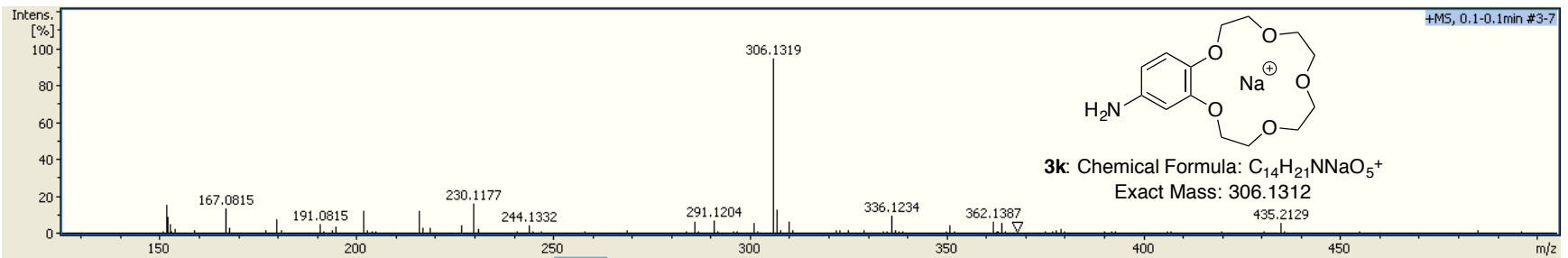
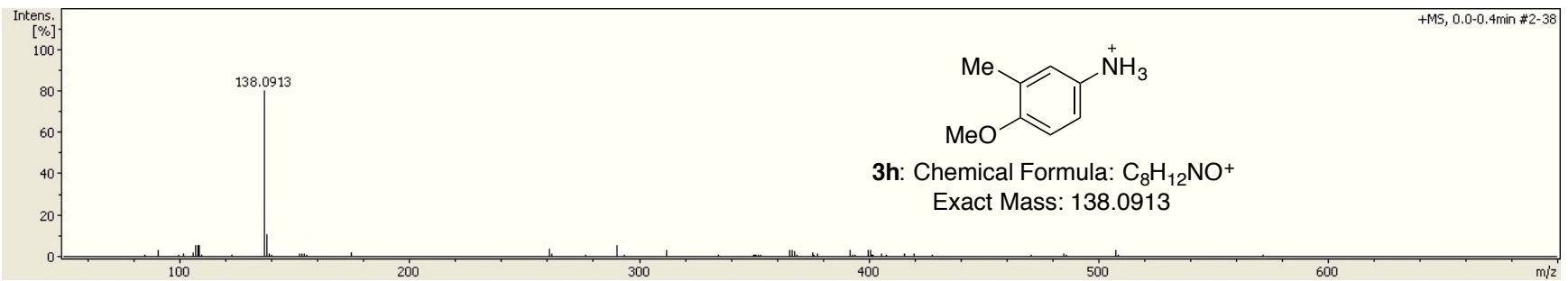
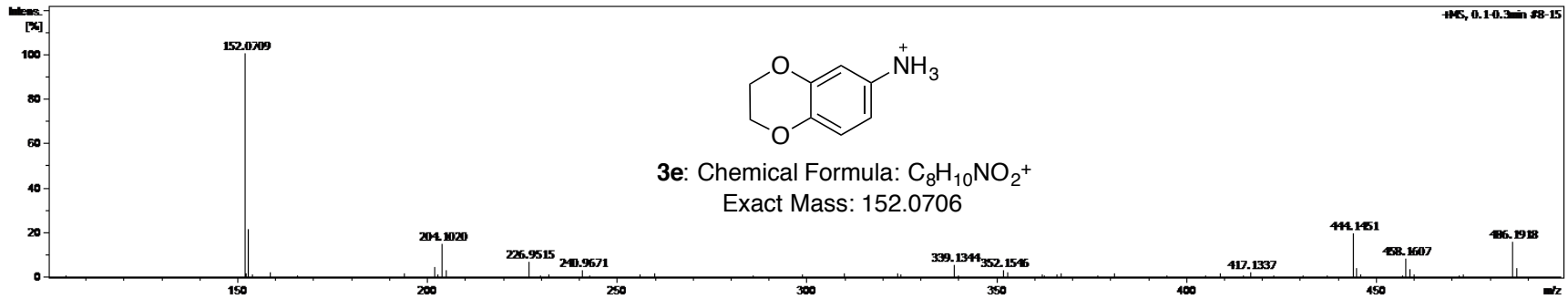
HRMS Spectral Charts

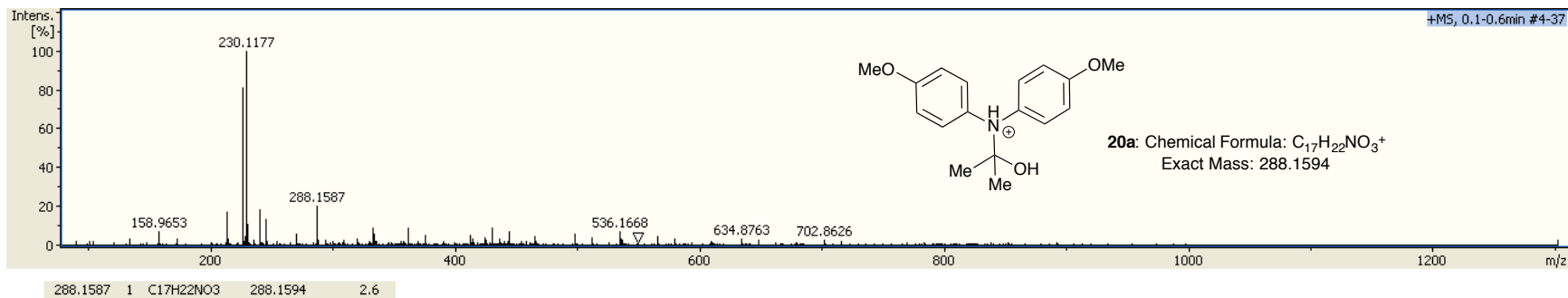












This HRMS spectrum is obtained for crude mixture at the late stages of reaction between anisole and 2-nitropropane. Signal at 288.1587 (2.4 ppm) corresponds to hemiaminal **20a**.

ORTEP Drawings for X-Ray Crystallography

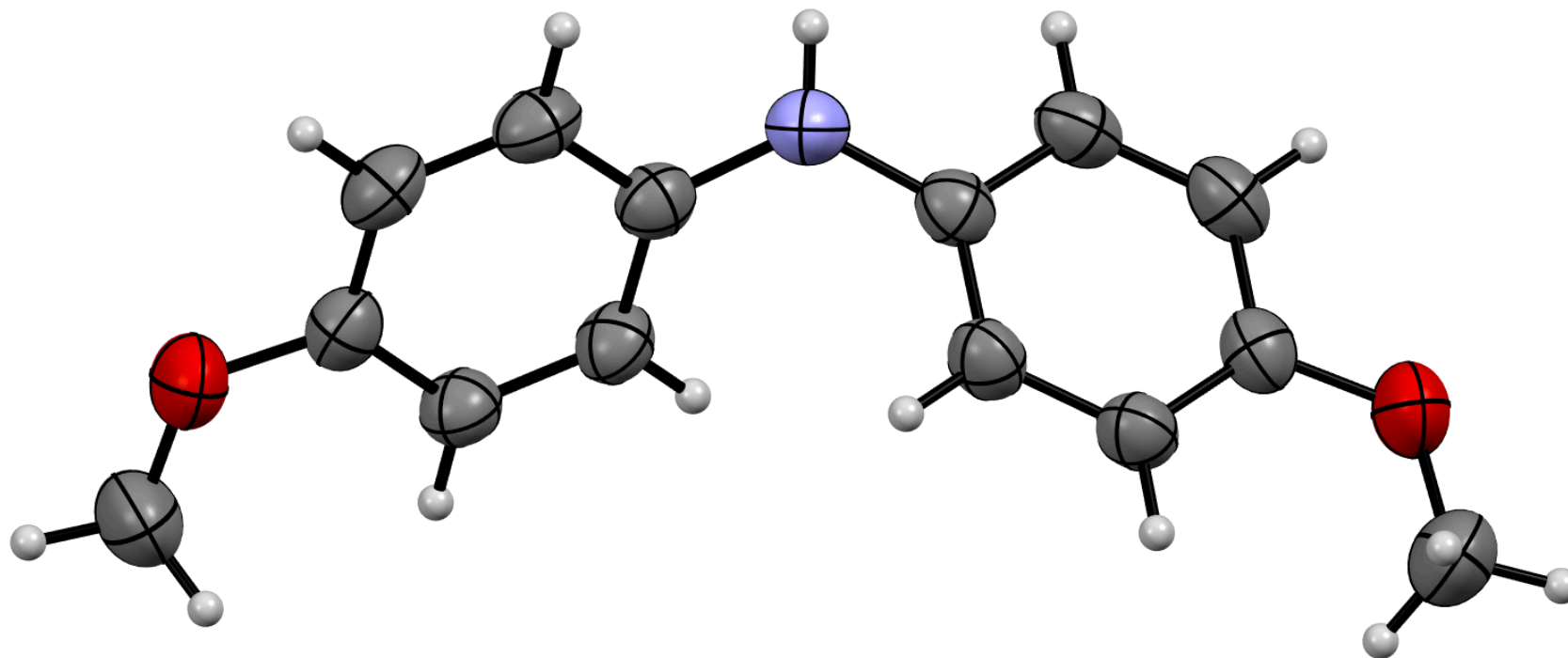


Figure 1. ORTEP drawing of bis(4-methoxyphenyl)amine (**2a**) (CCDC 1417939) showing 50% probability amplitude displacement ellipsoids.

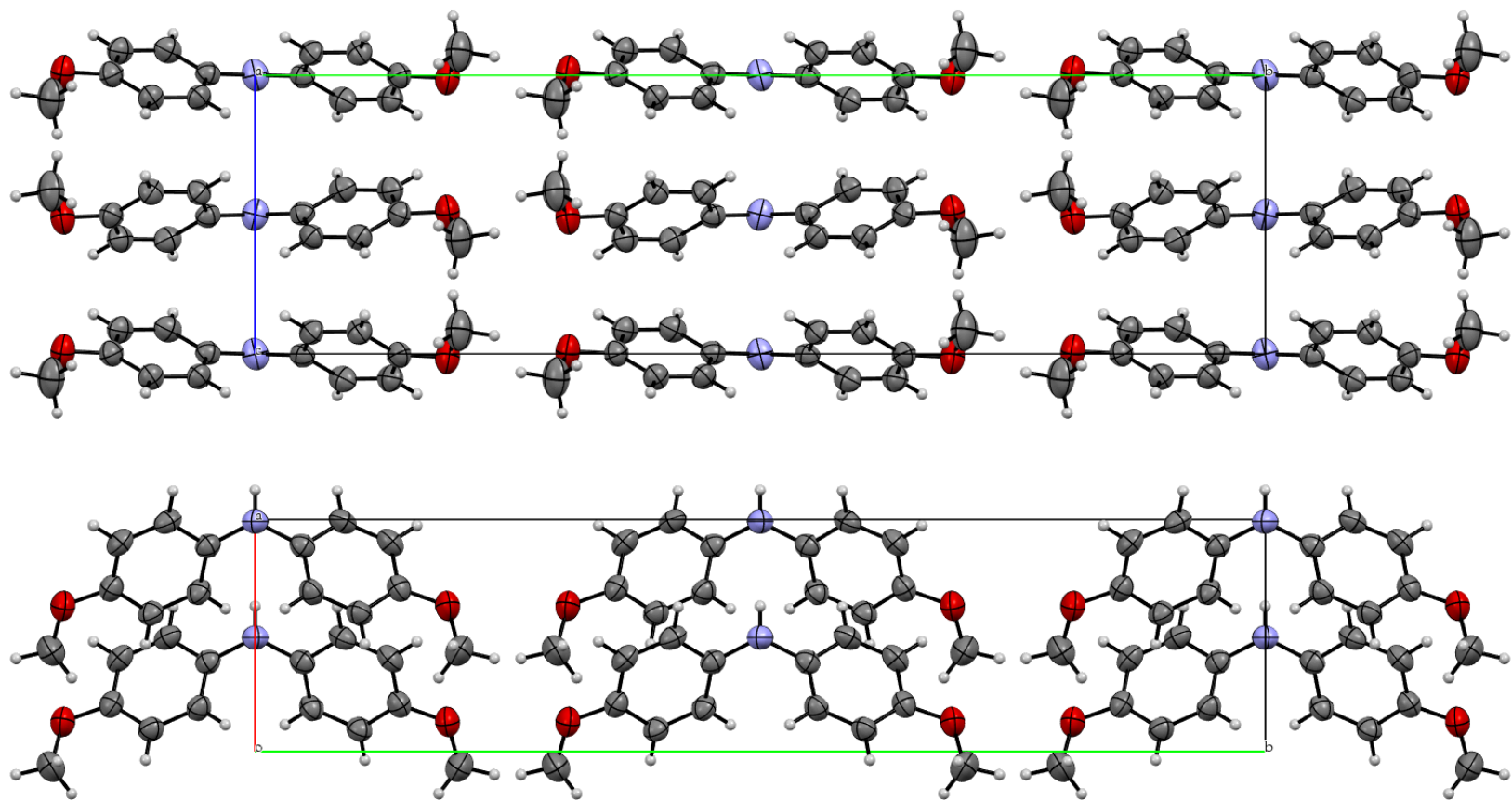


Figure 2. Packing of bis(4-methoxyphenyl)amine (**2a**) (CCDC 1417939) in crystalline lattice. Views along axes *a* (top) and *c* (bottom) are shown.