Supporting Information for:

Porphyrin Architectures Tailored for Studies of Molecular Information Storage

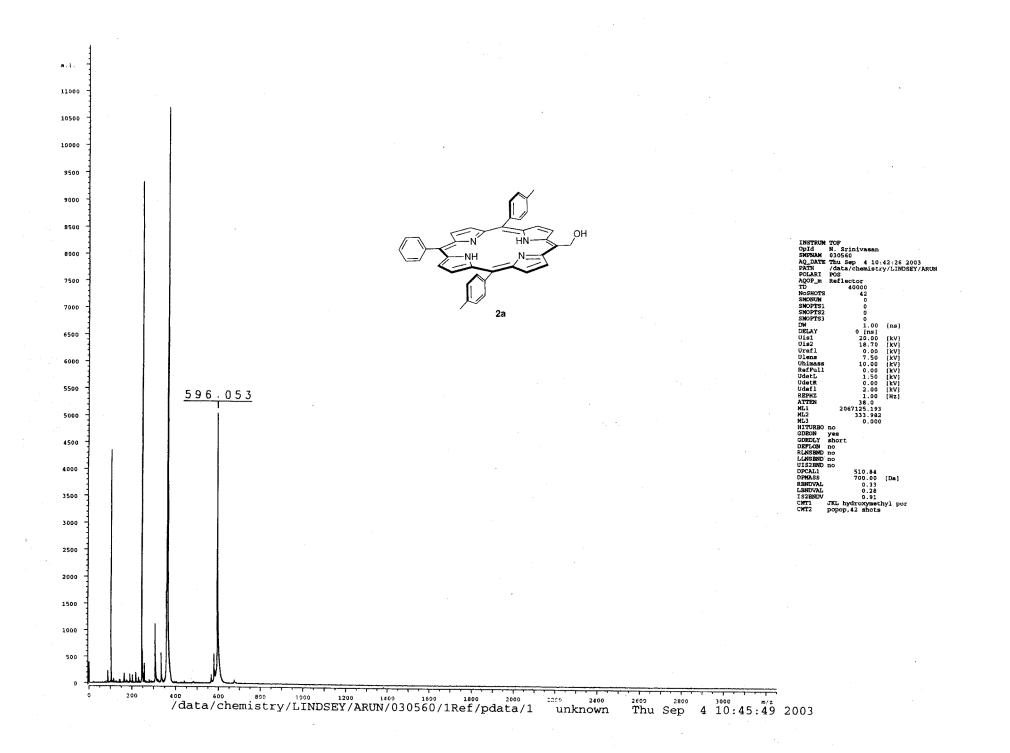
Carole M. Carcel, Joydev K. Laha, Robert S. Loewe, Patchanita Thamyongkit, Karl-Heinz Schweikart, Veena Misra, David F. Bocian, and Jonathan S. Lindsey

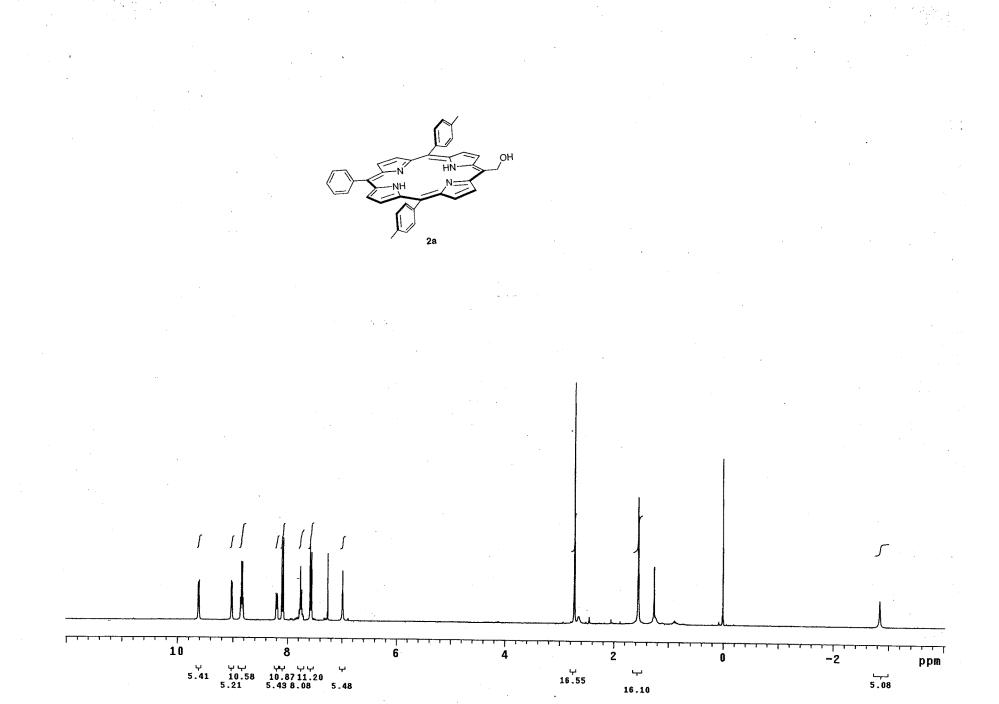
Table of Contents:

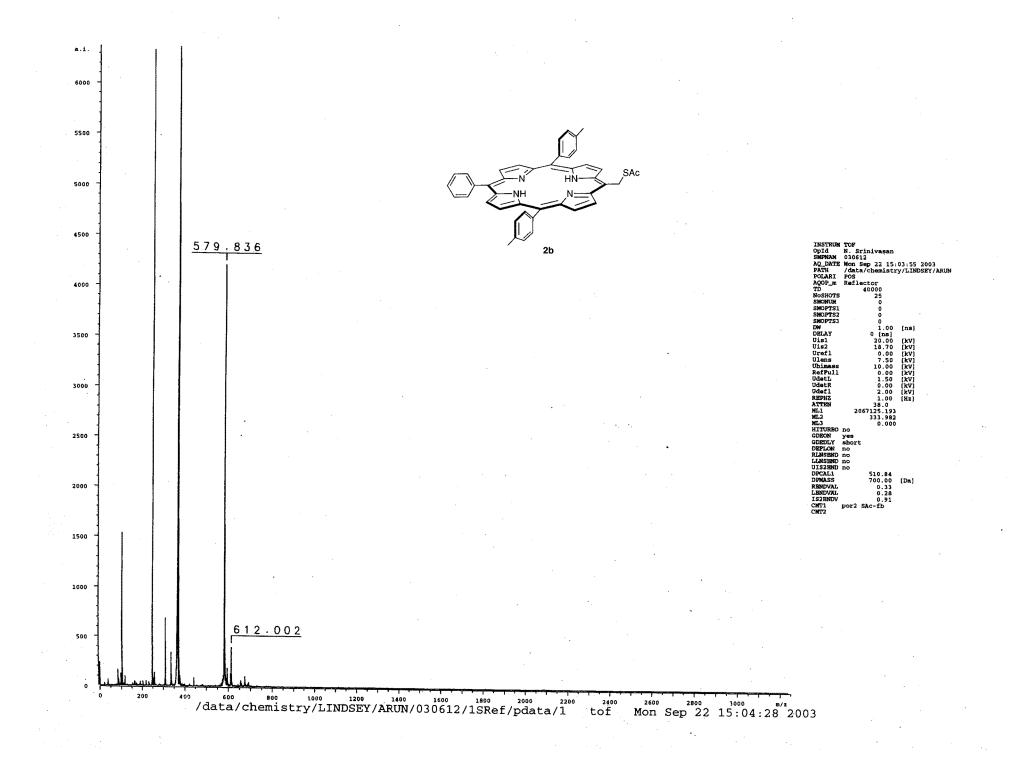
Experimental Section	S1 - S1
Characterization Data	S2 - S62

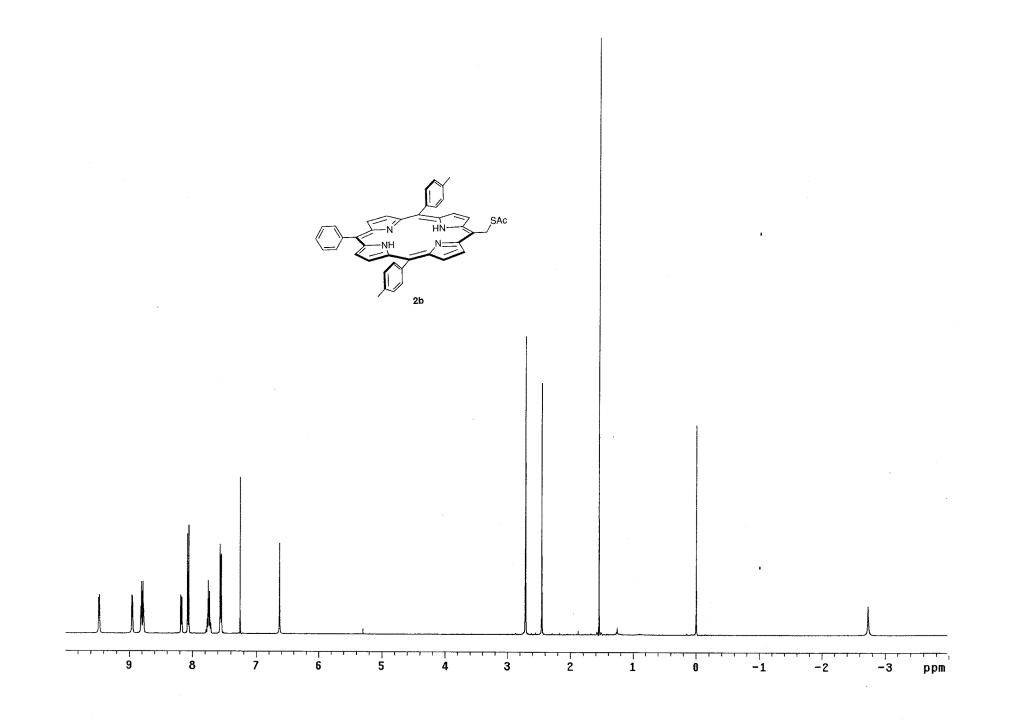
Experimental Section

General. All ¹H NMR spectra (300 or 400 MHz) and ¹³C NMR (75 MHz) were collected in CDCl₃ unless noted otherwise. Absorption and fluorescence spectra were collected in toluene at room temperature. Mass spectra of porphyrins were obtained via laser desorption mass spectrometry (LD-MS) without a matrix³² or by matrix-assisted laser desorption ionization mass spectrometry (MALDI-MS), and by high-resolution fast atom bombardment mass spectrometry (FAB-MS) using a matrix of nitrobenzyl alcohol and polyethylene glycol. Melting points are uncorrected. Kugelrohr distillation was performed by a standard-size Kugelrohr short path distillation apparatus. Silica gel (40 µm average particle size) was used for column chromatography. All GC chromatograms were collected using a phenyl methyl siloxane column (30.0 m x 32 µm x 0.5 µm), thermal programming (oven at 35 °C for 5 min; ramp to 325 °C at 10 °C/min; oven at 325 °C for 5 min), and a flame ionization detector.²⁹ THF was freshly distilled from sodium as required. Toluene was distilled from CaH₂. CHCl₃ was stabilized with 0.8% ethanol.

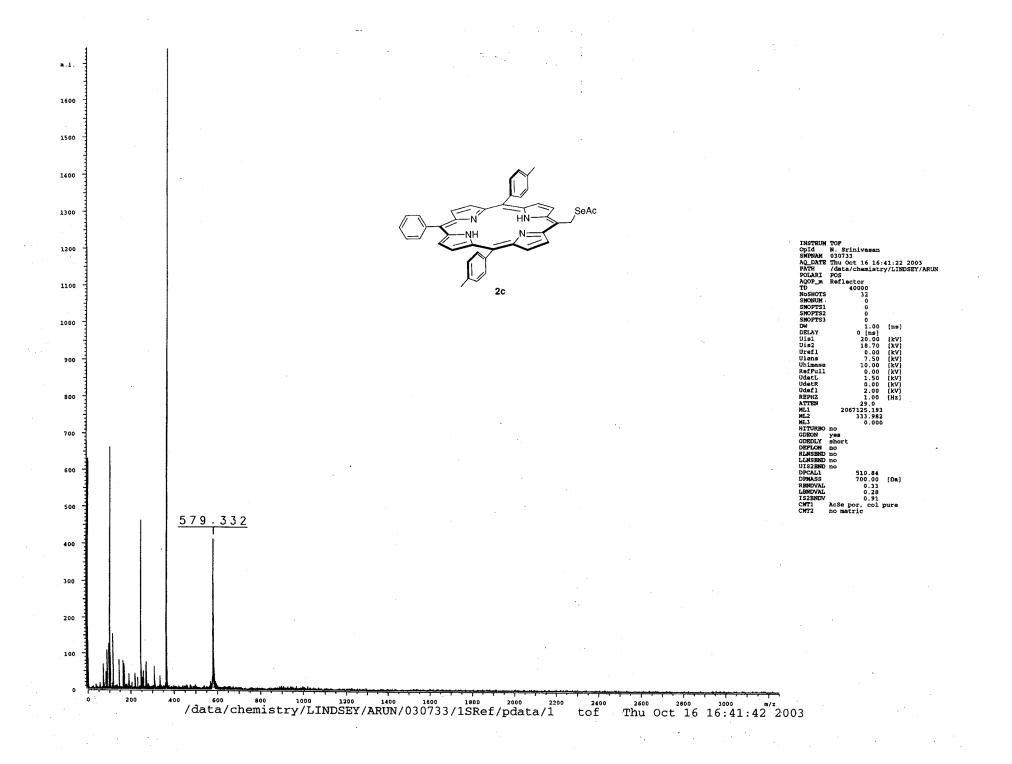


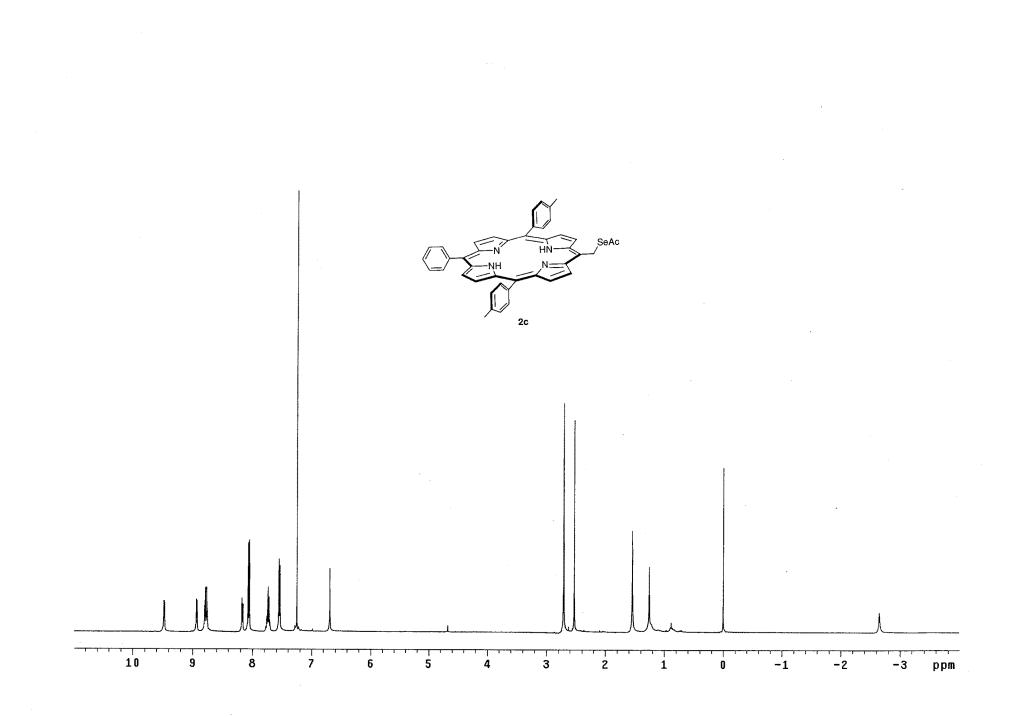


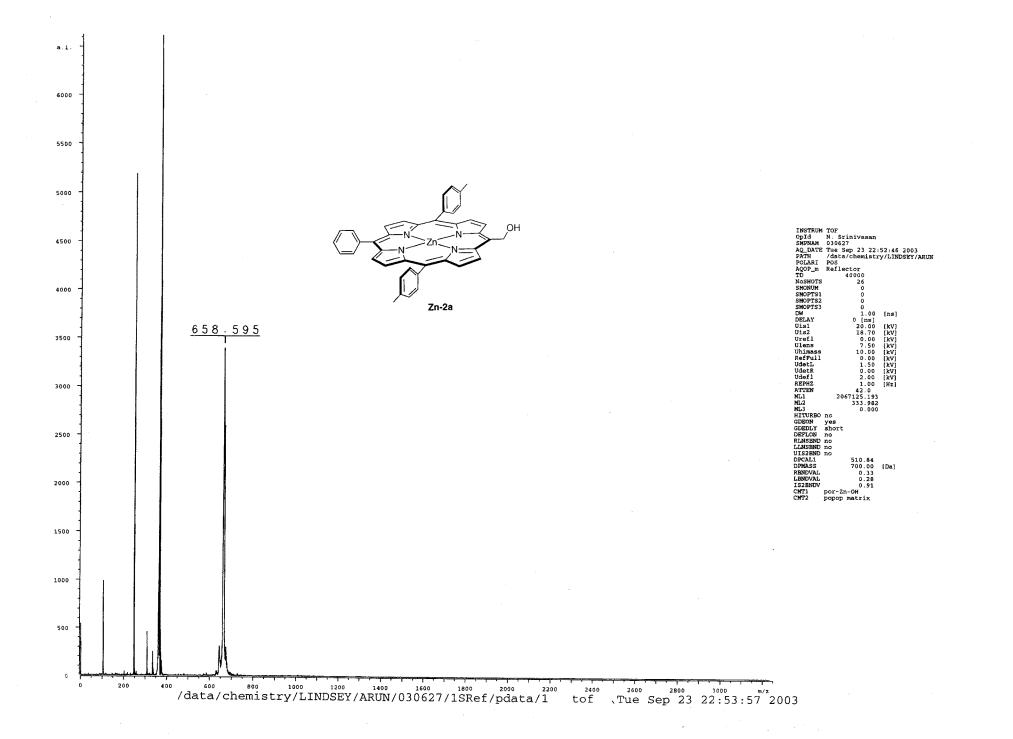


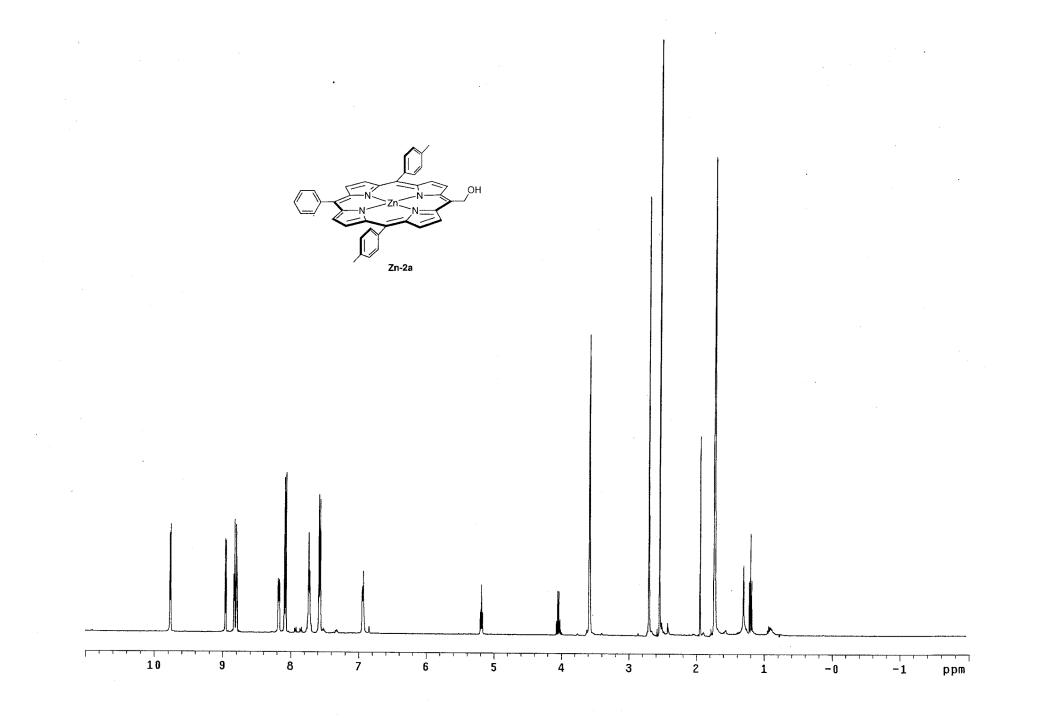


-

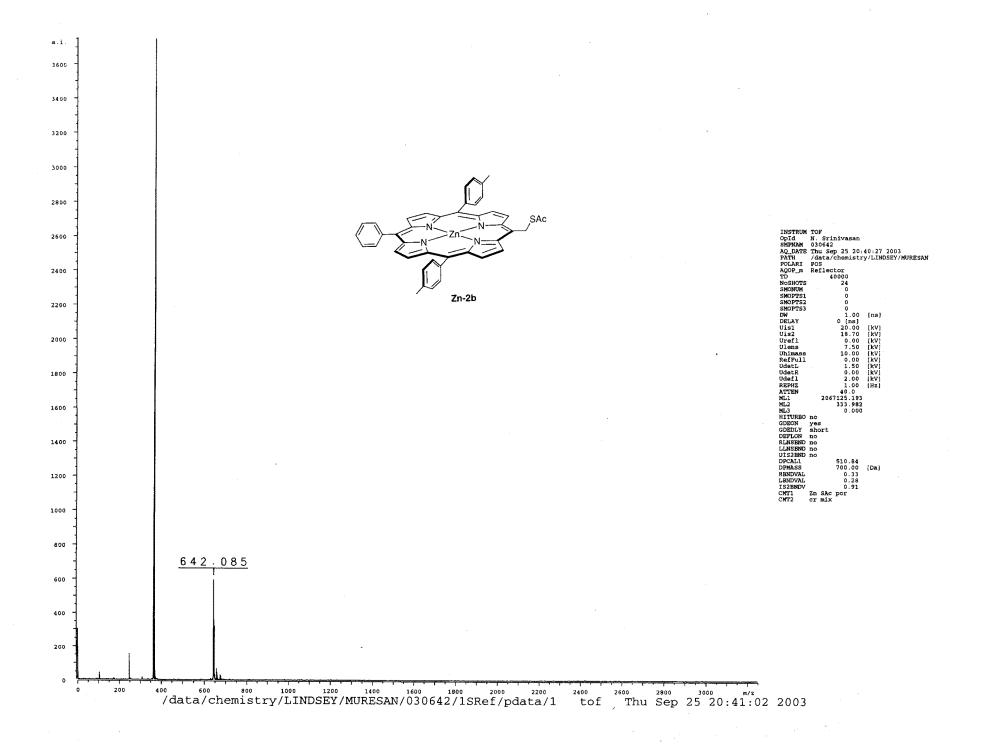


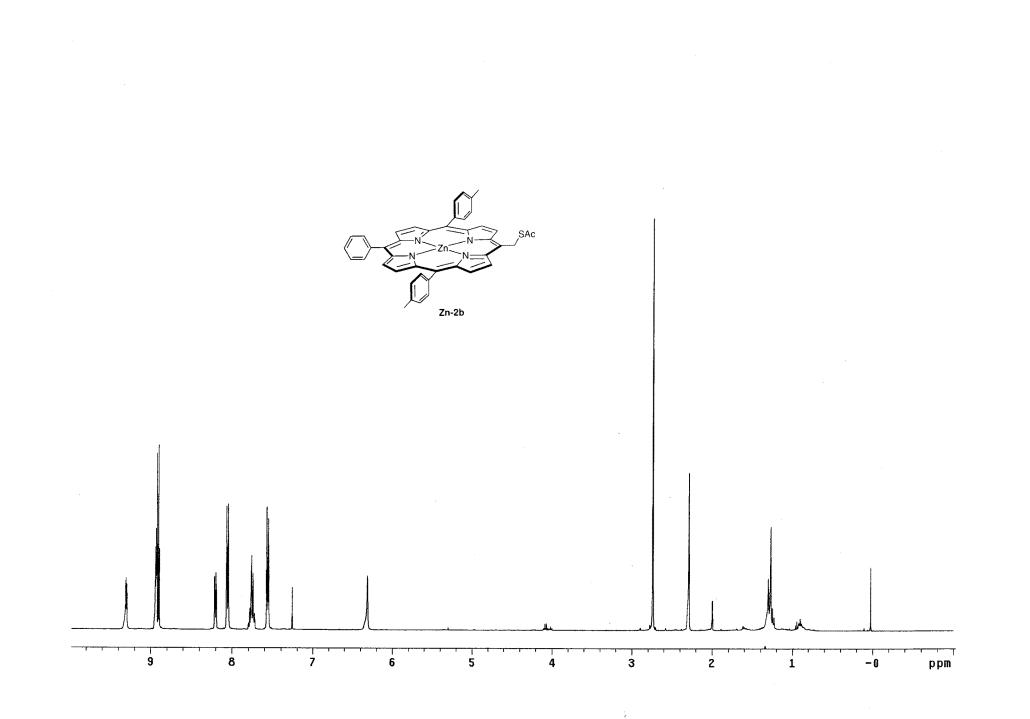


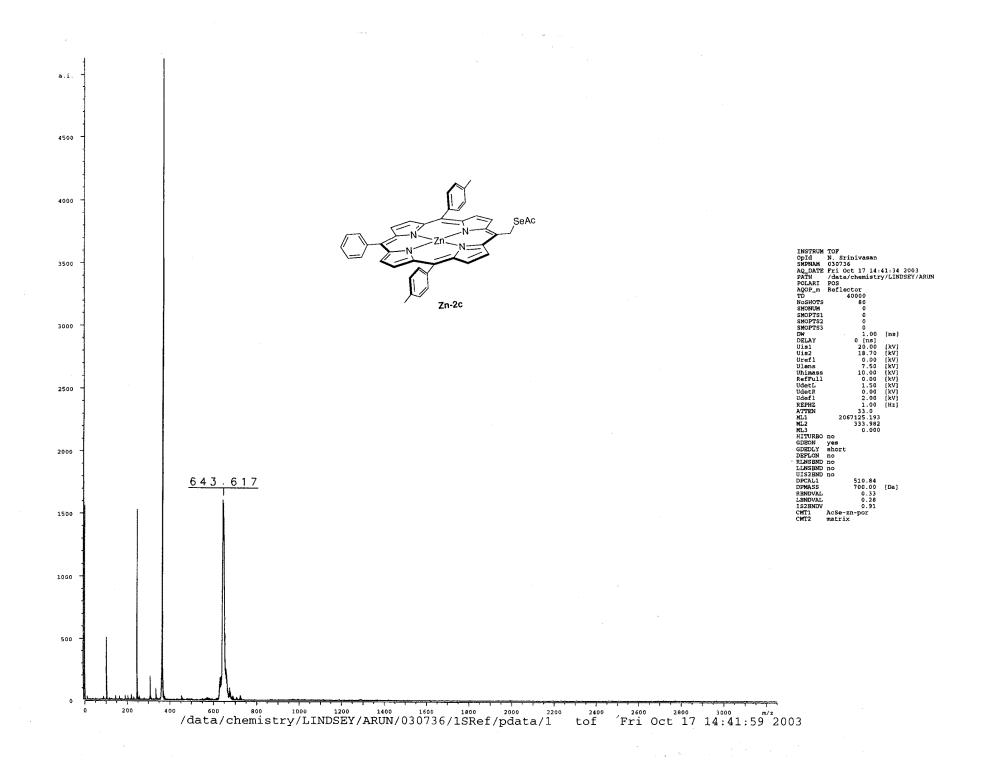


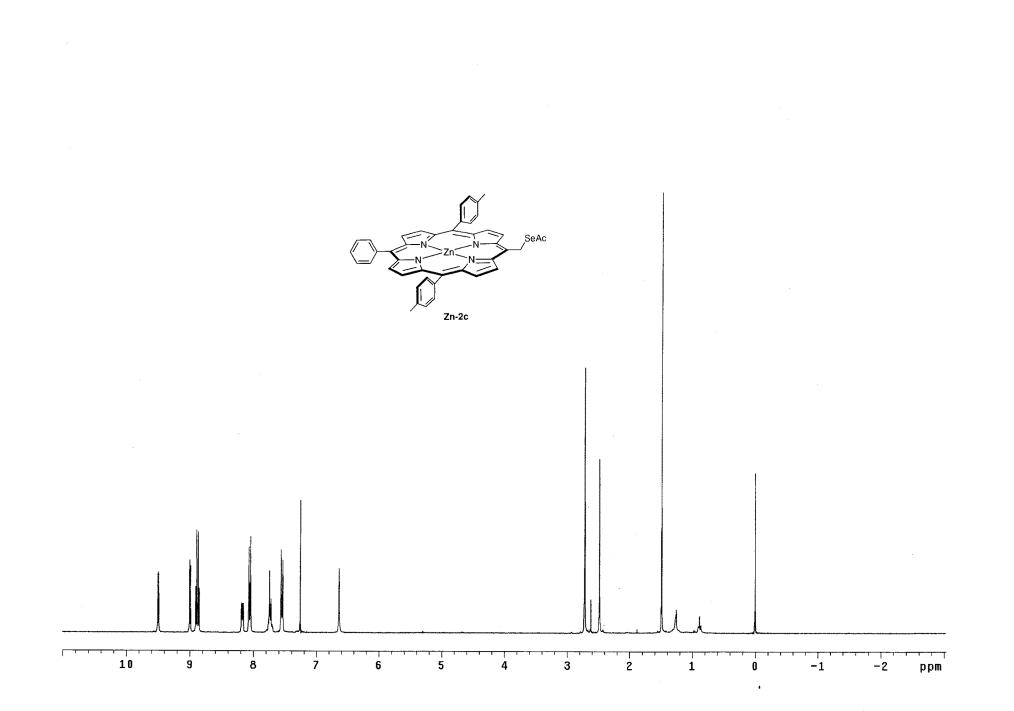


2

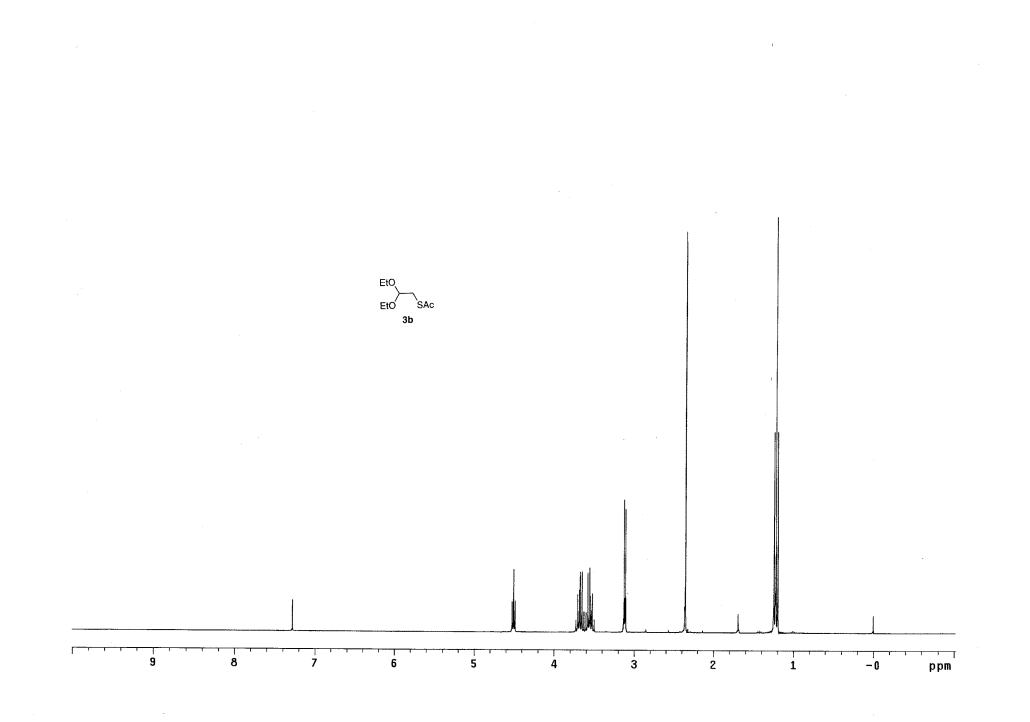


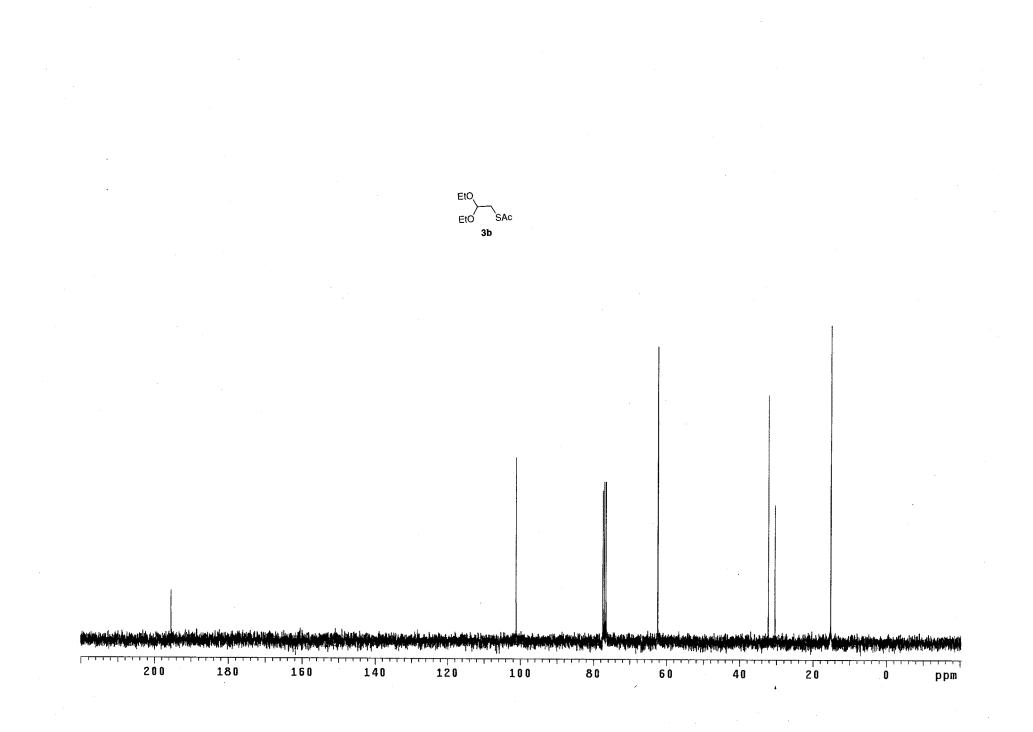


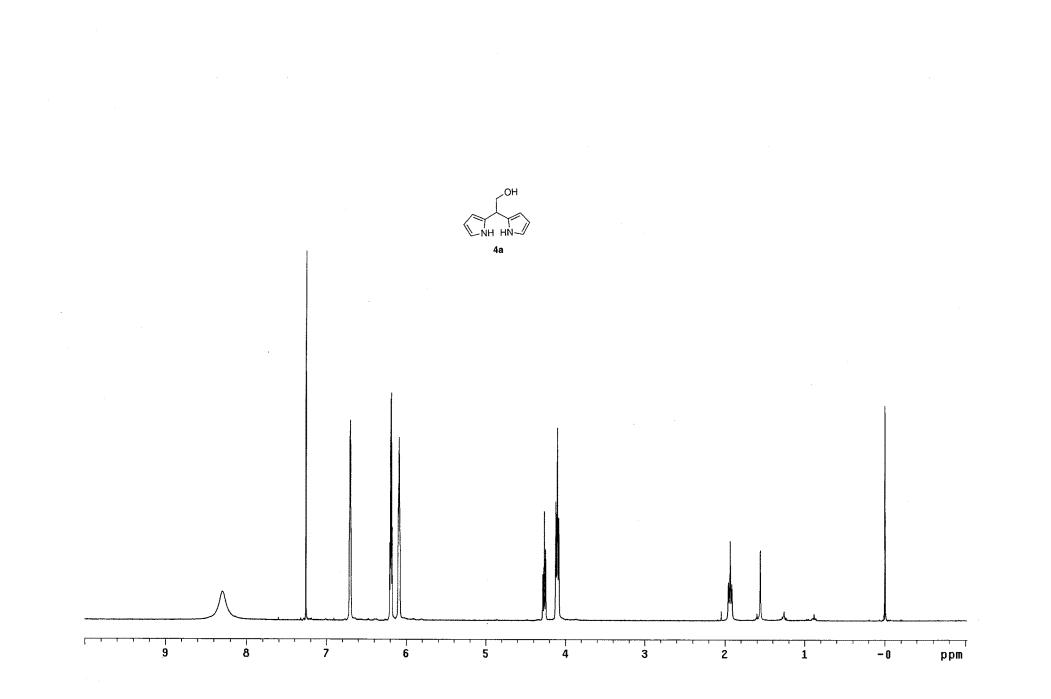


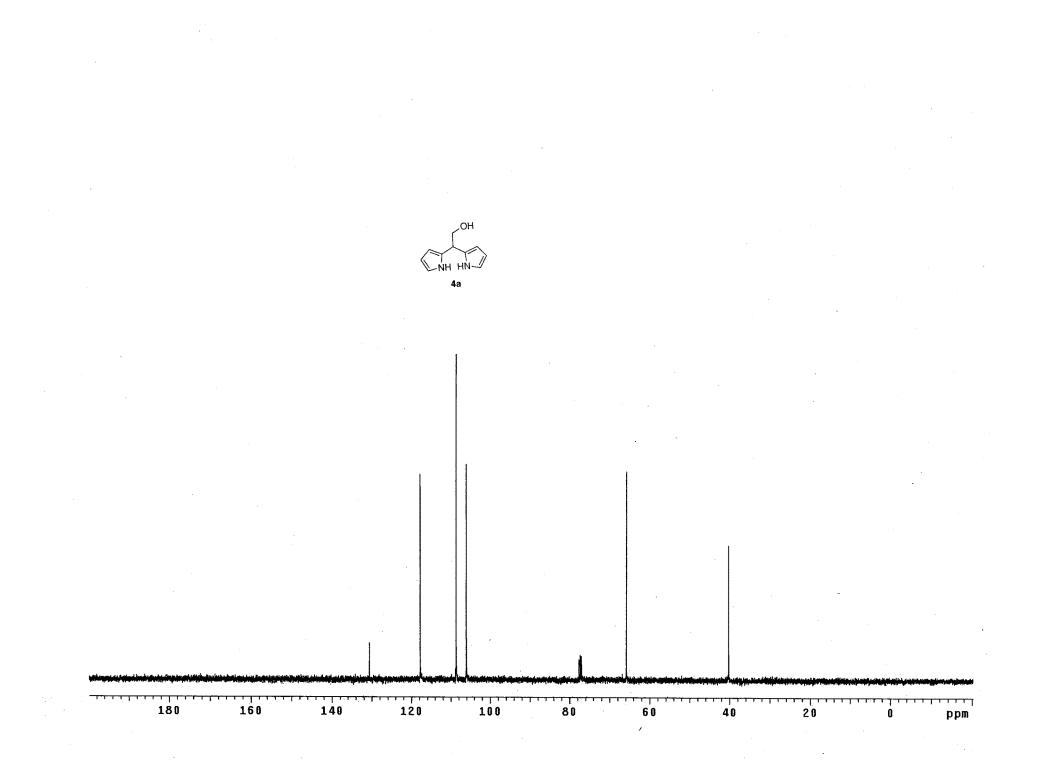


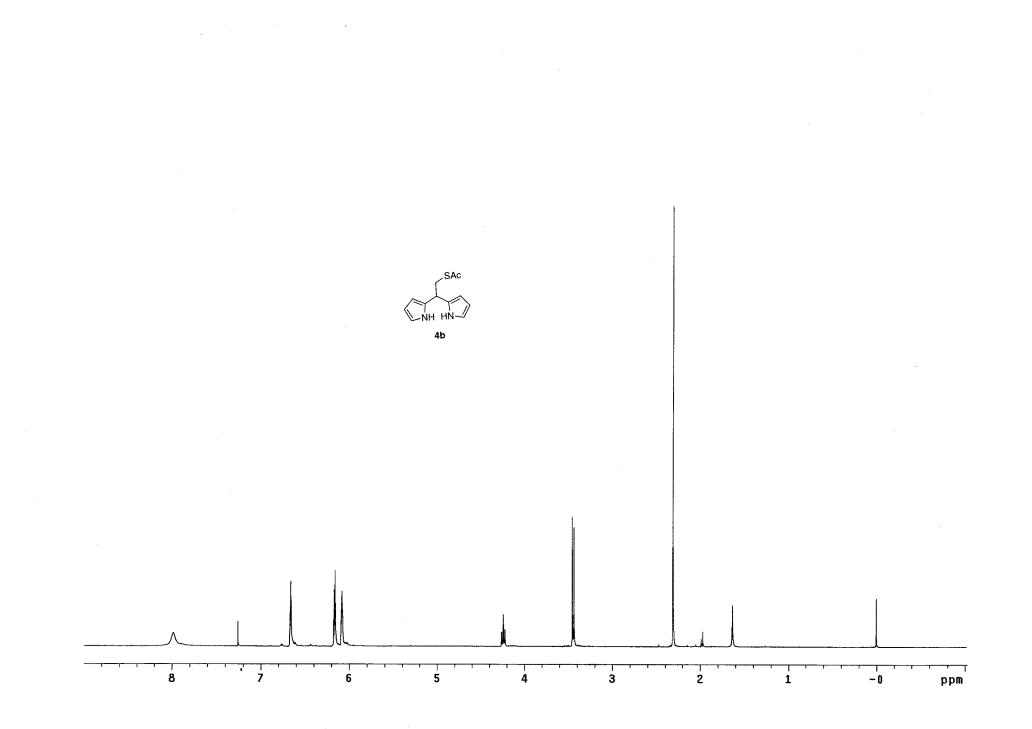
7

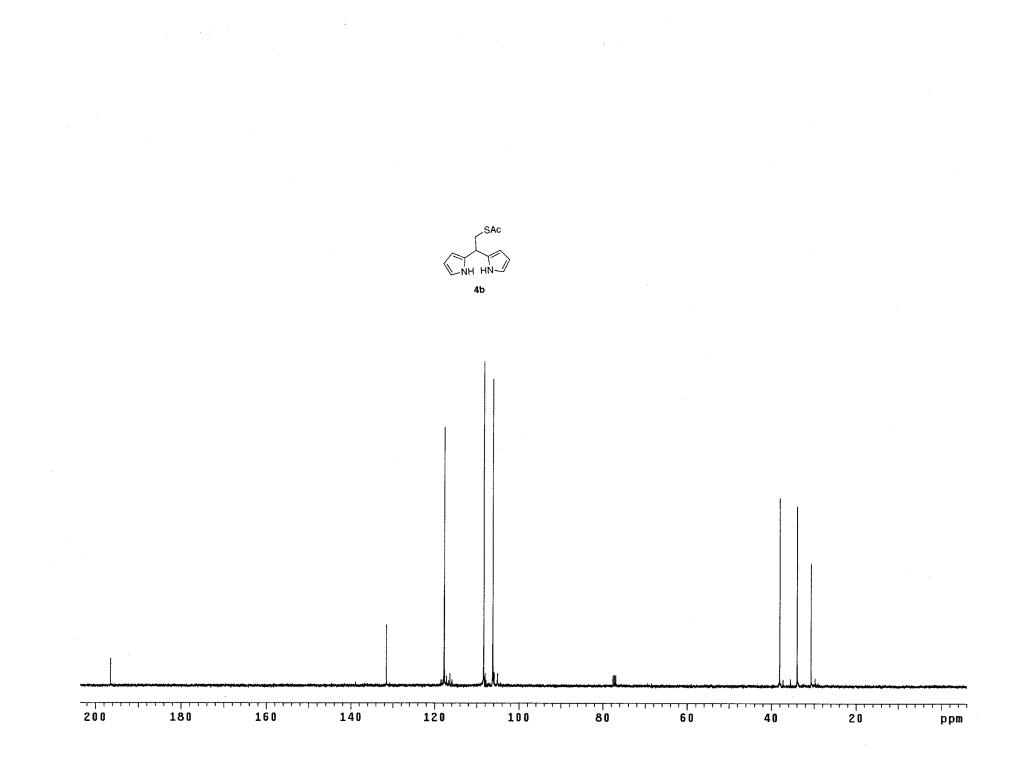


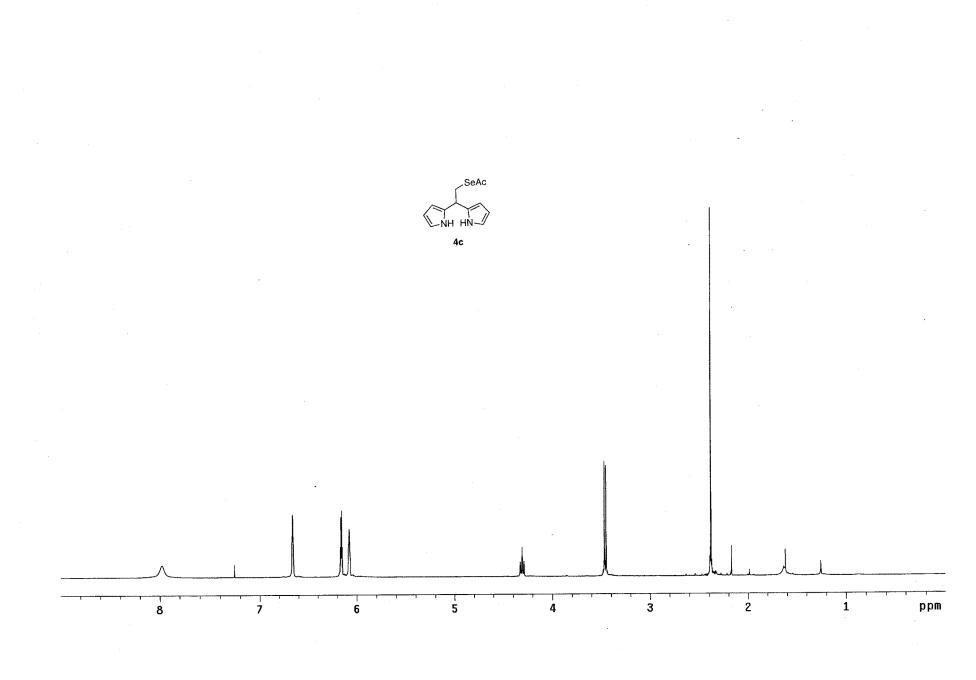


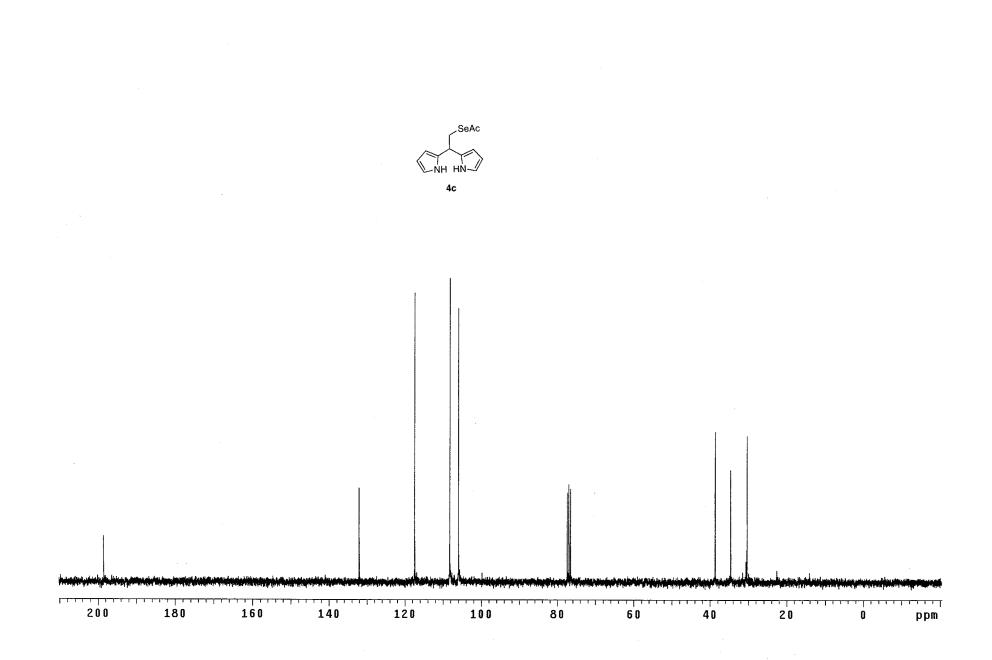


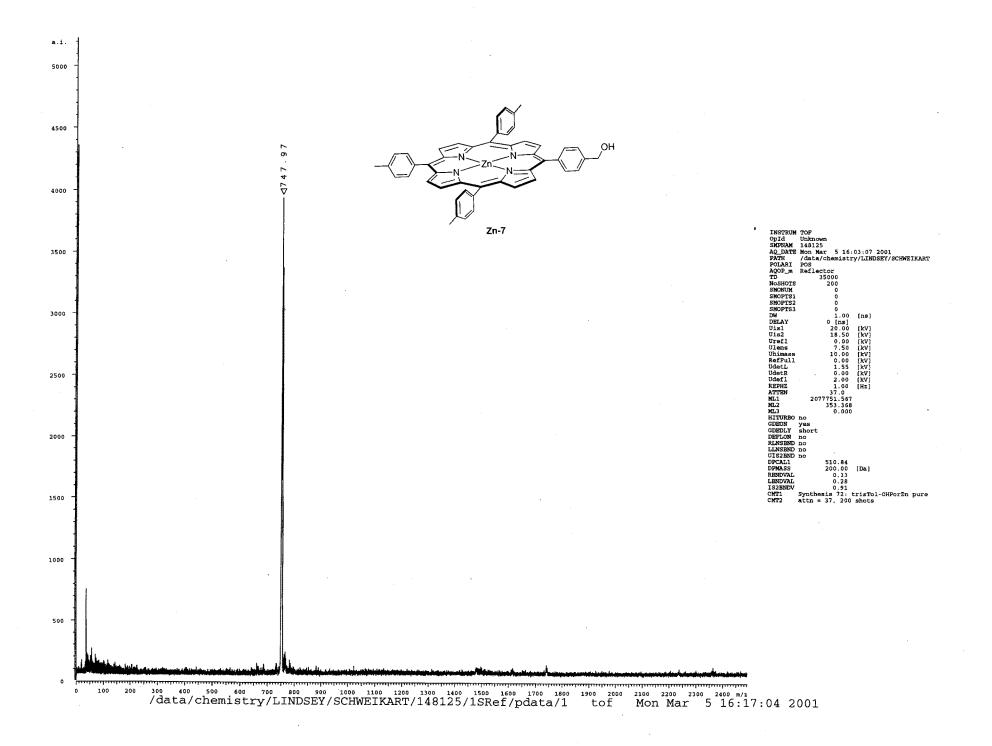


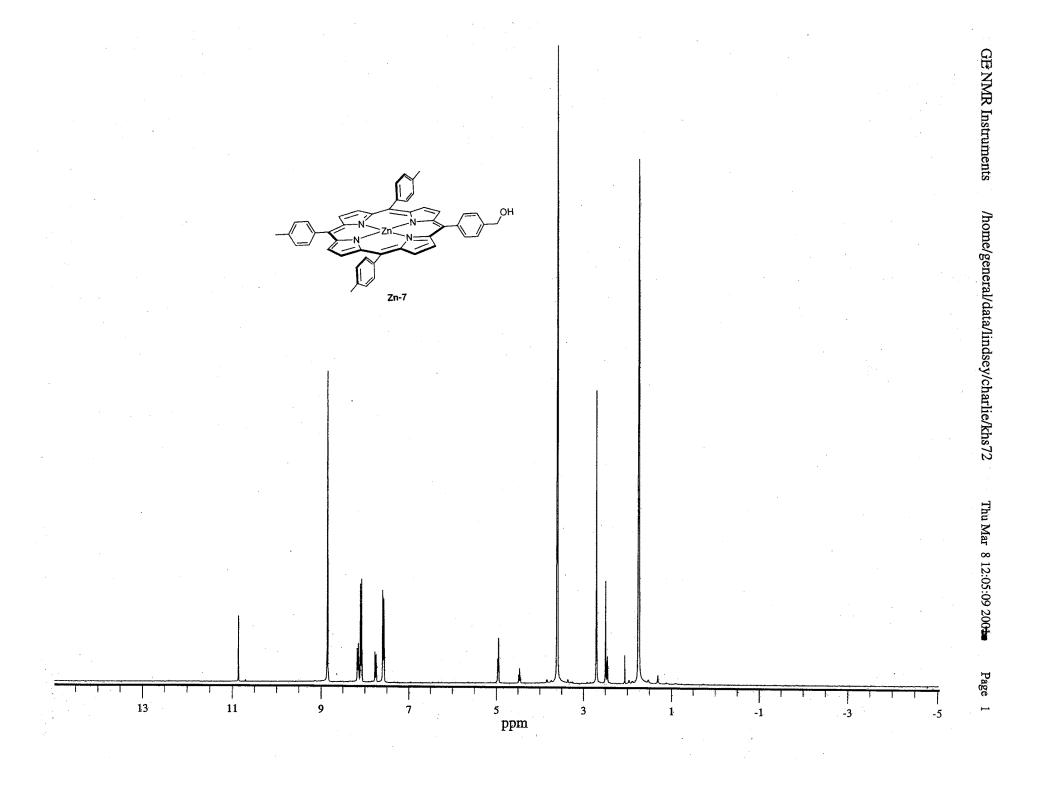


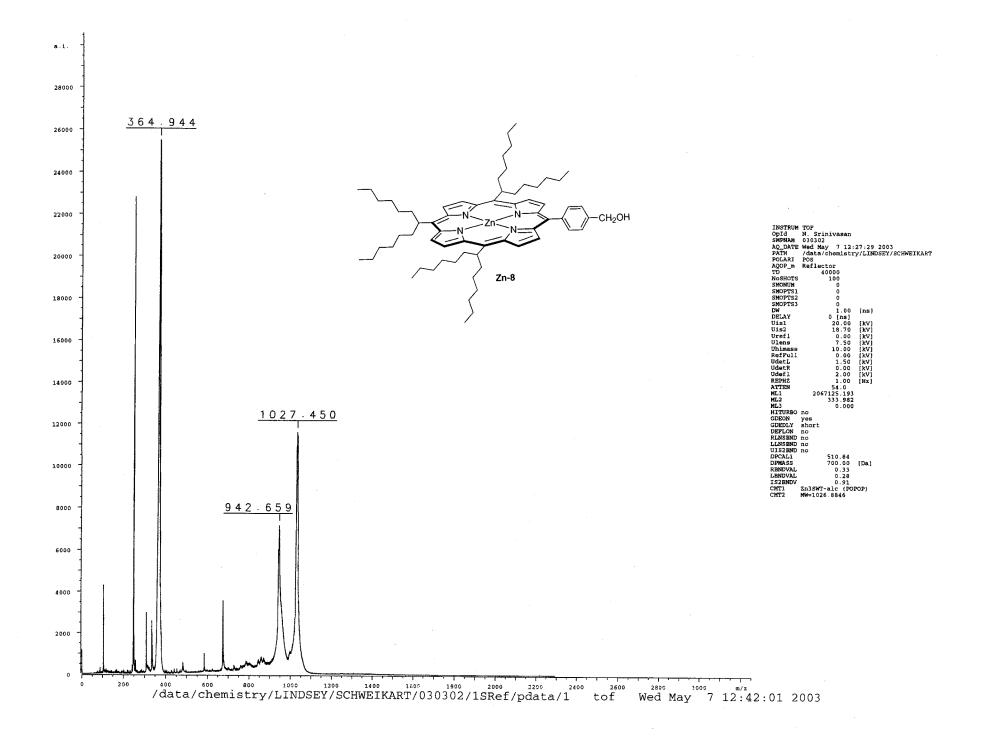


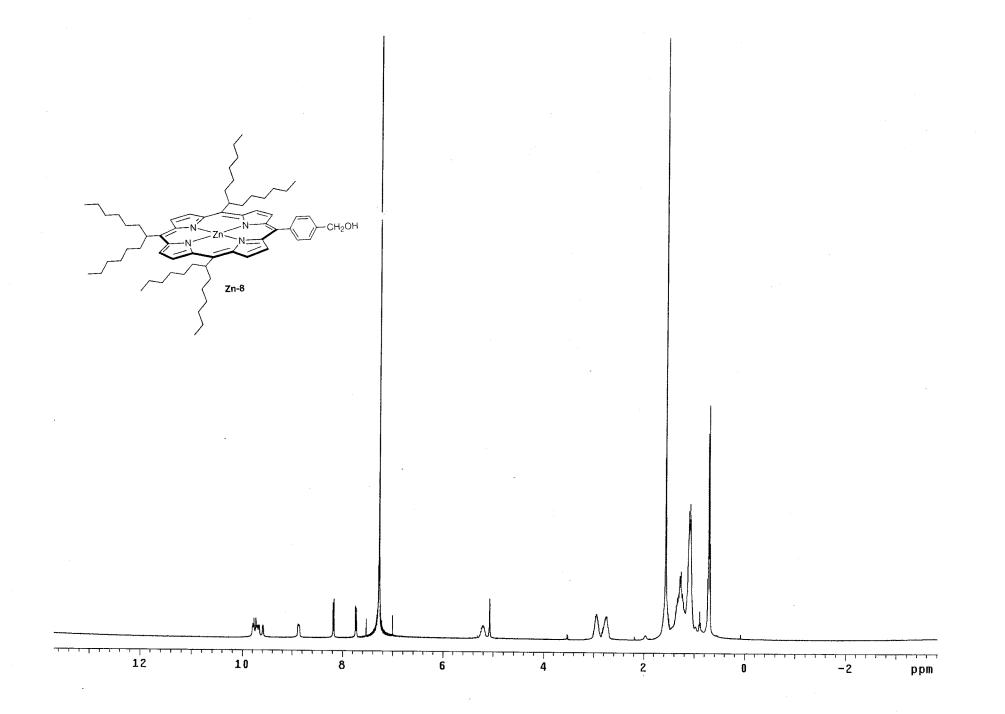


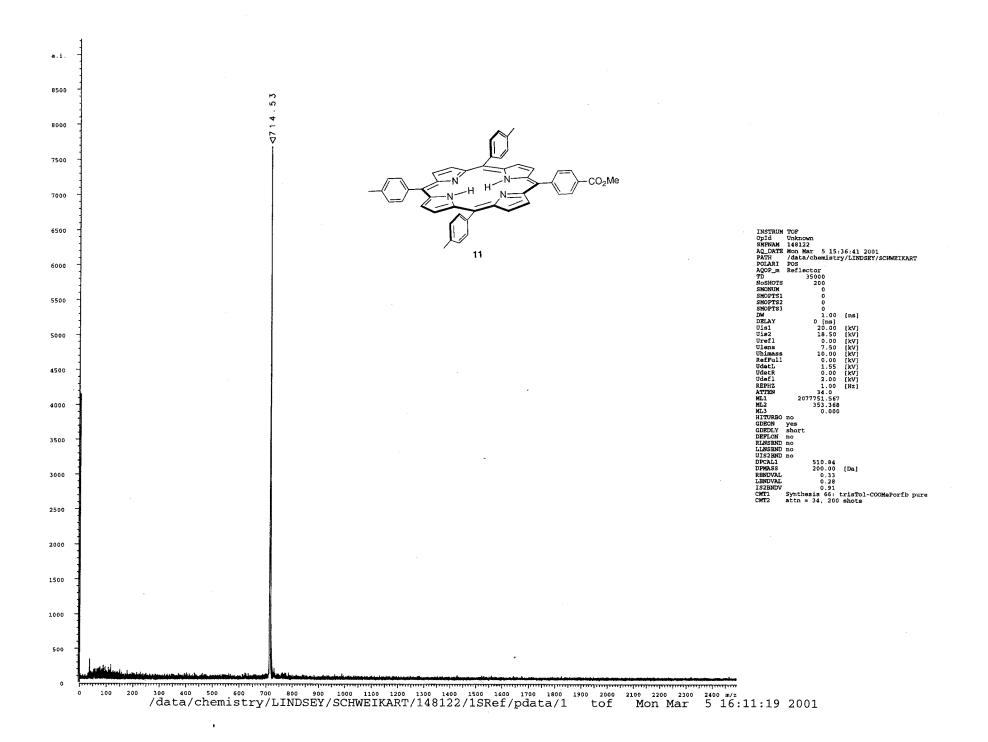


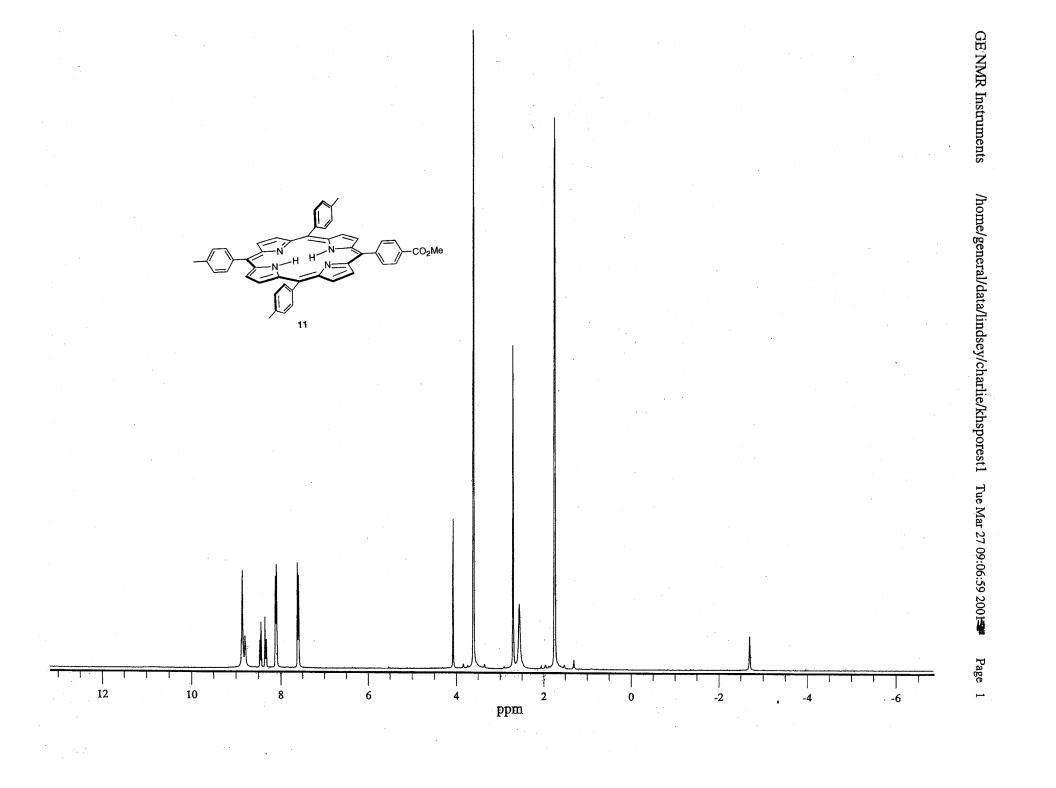


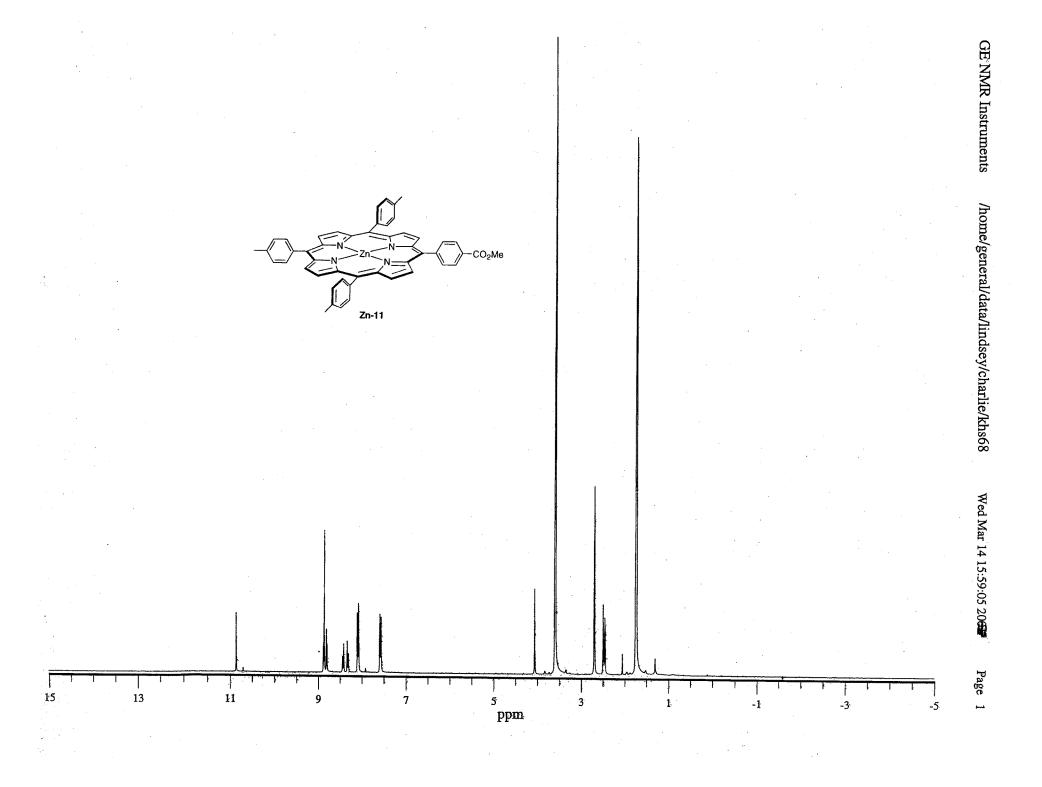


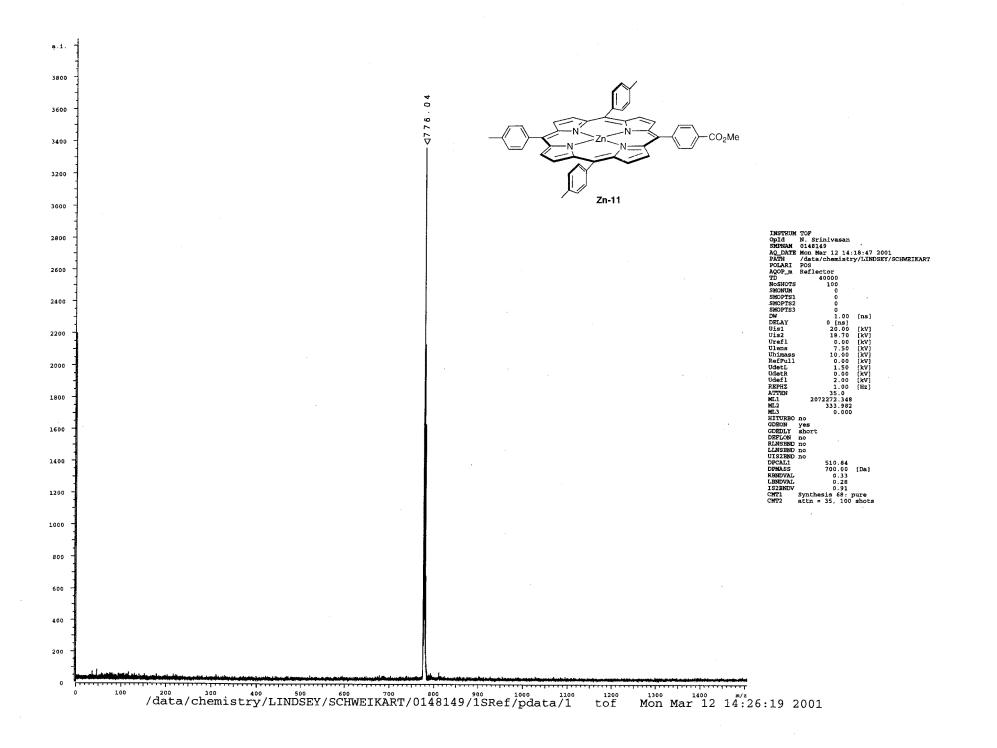


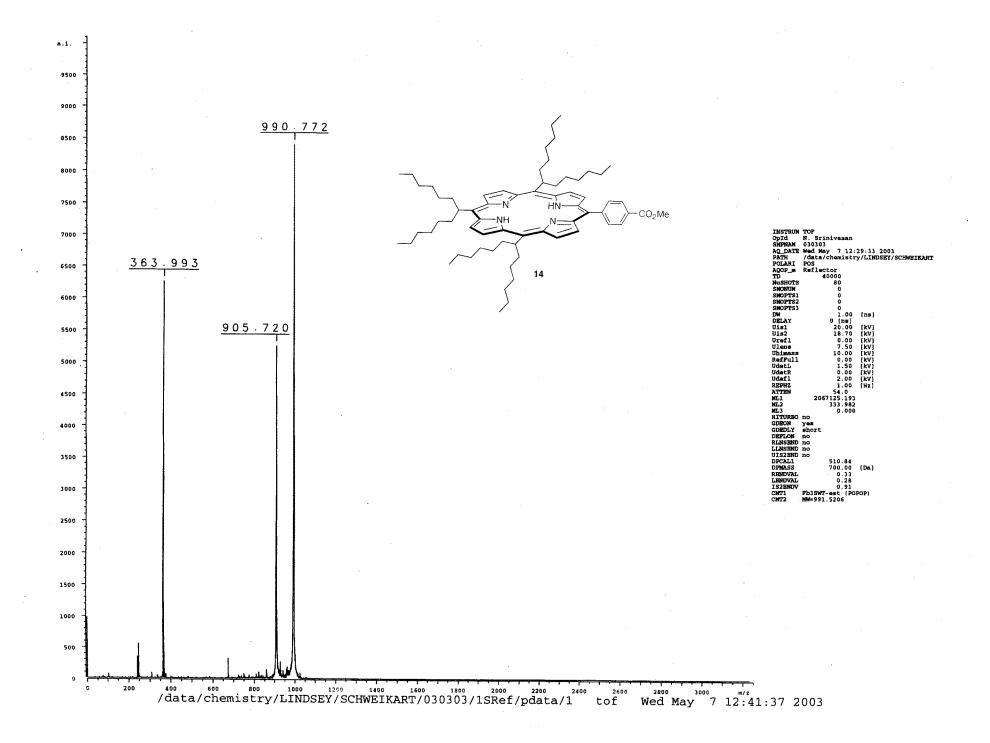


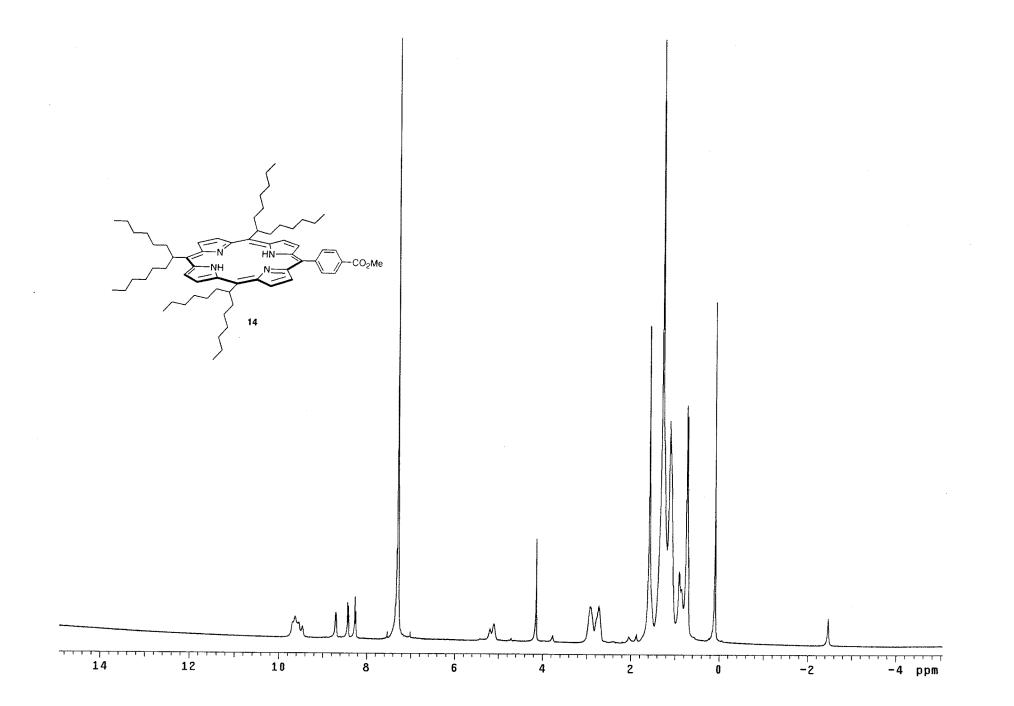


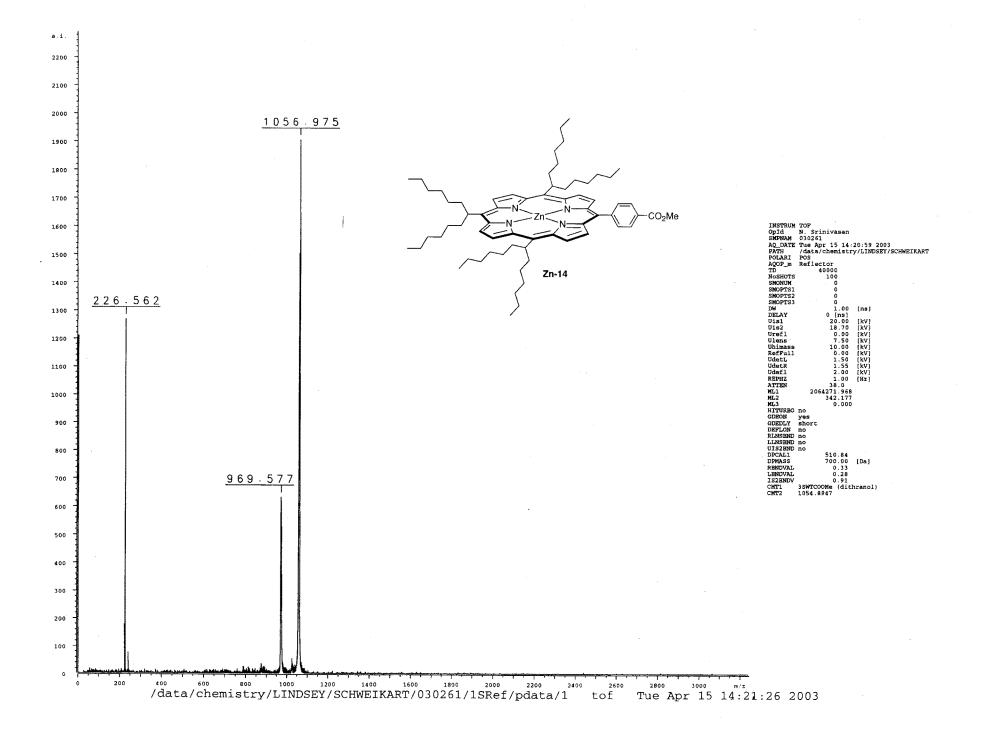


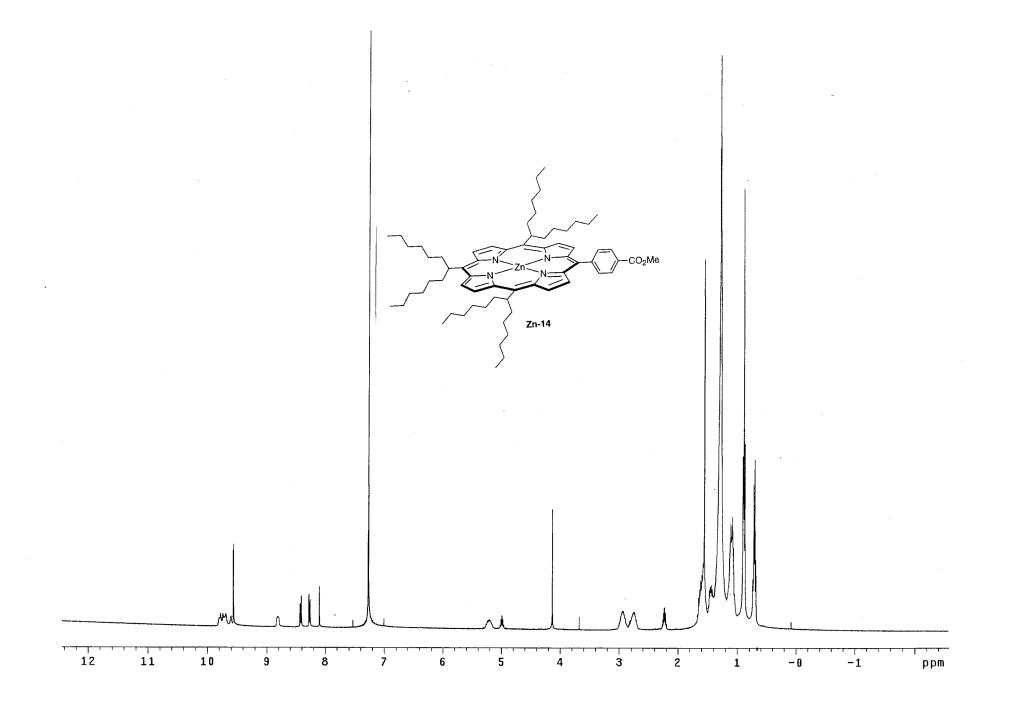


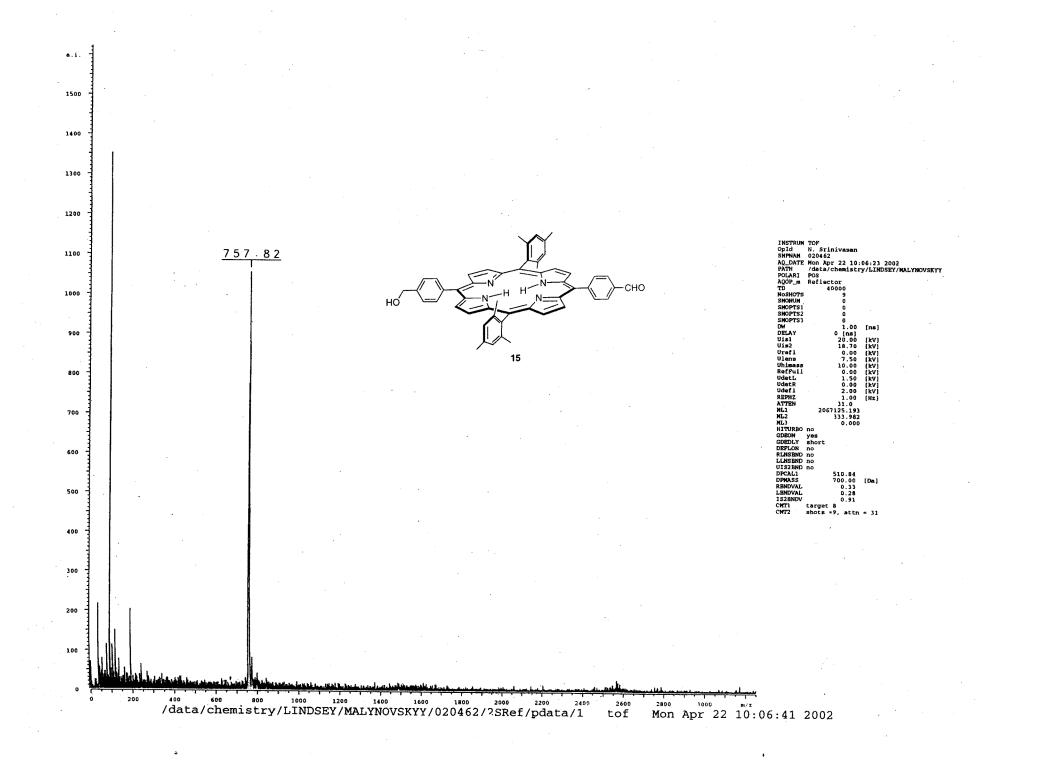


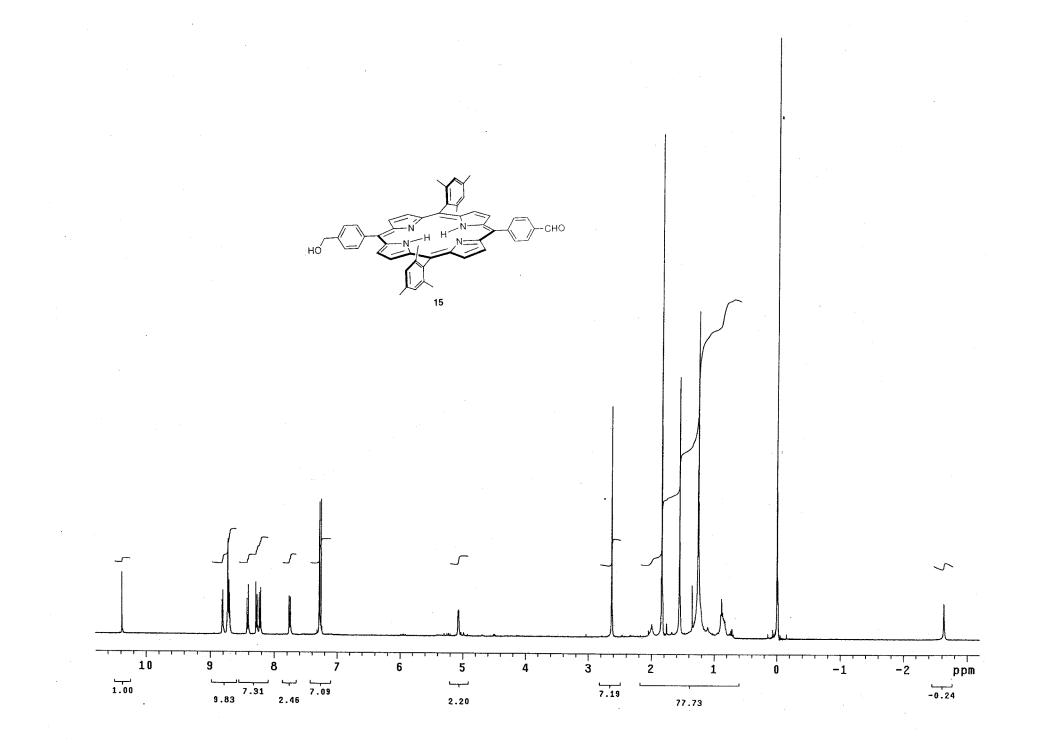


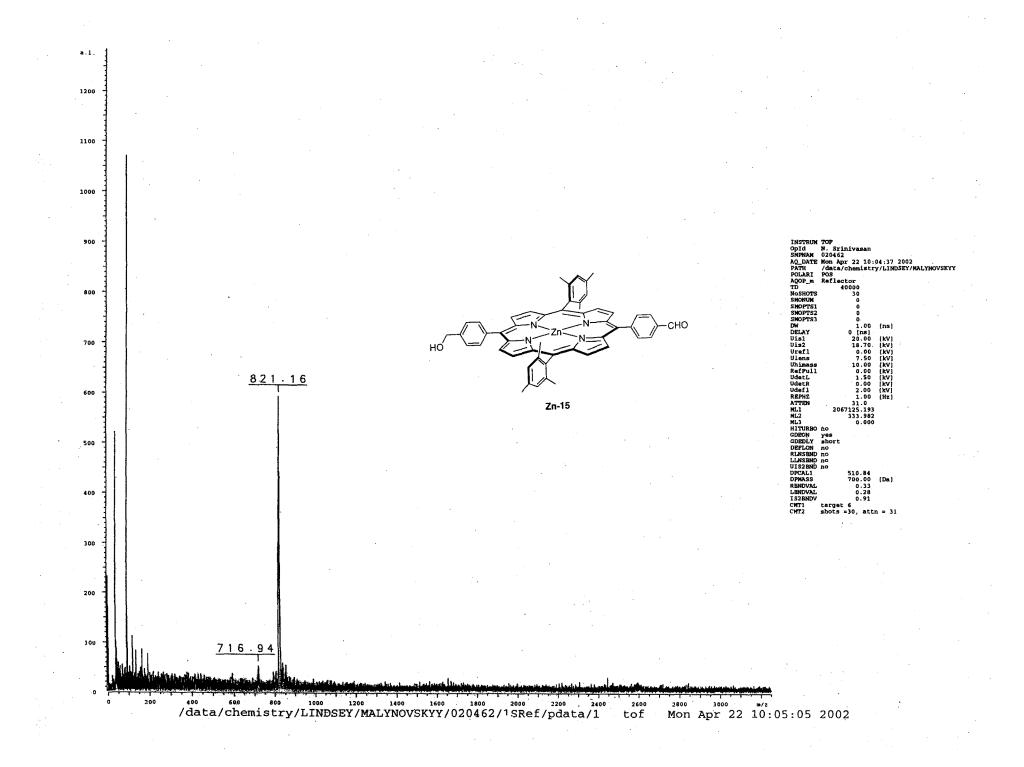


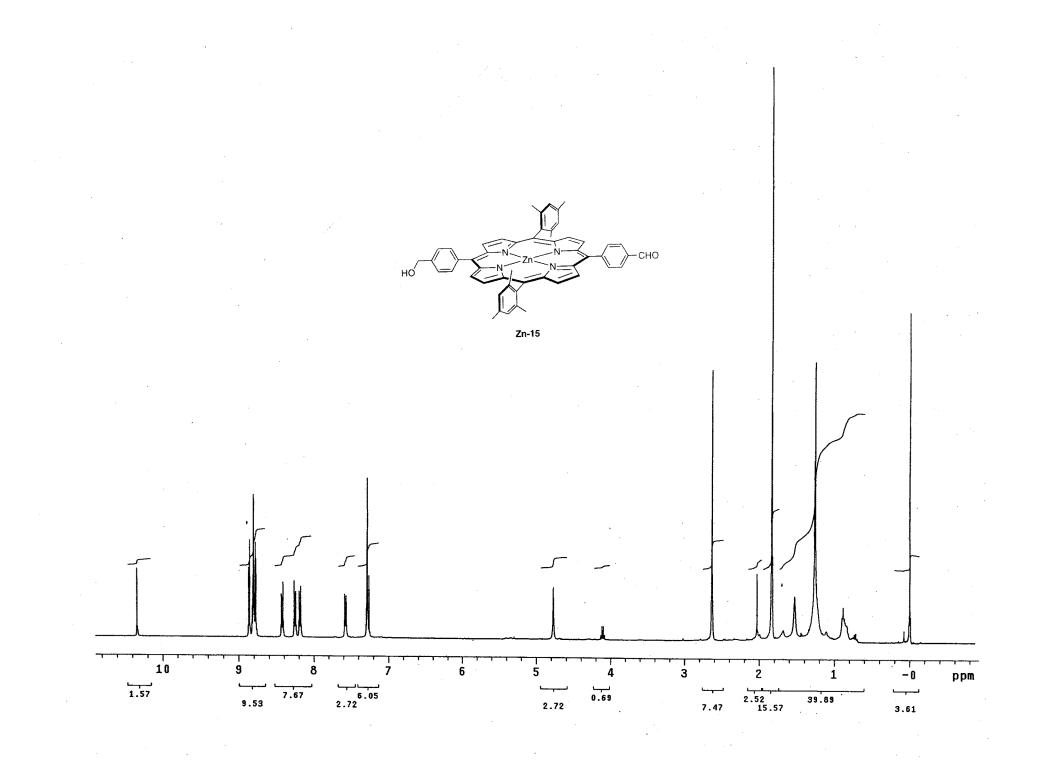


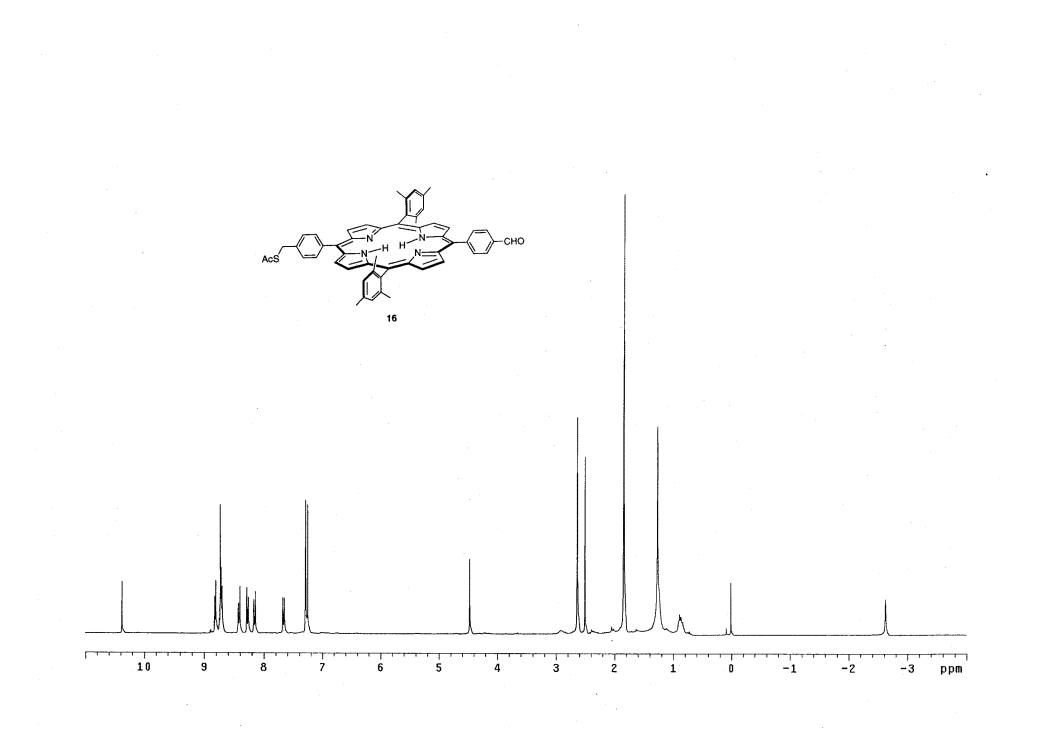


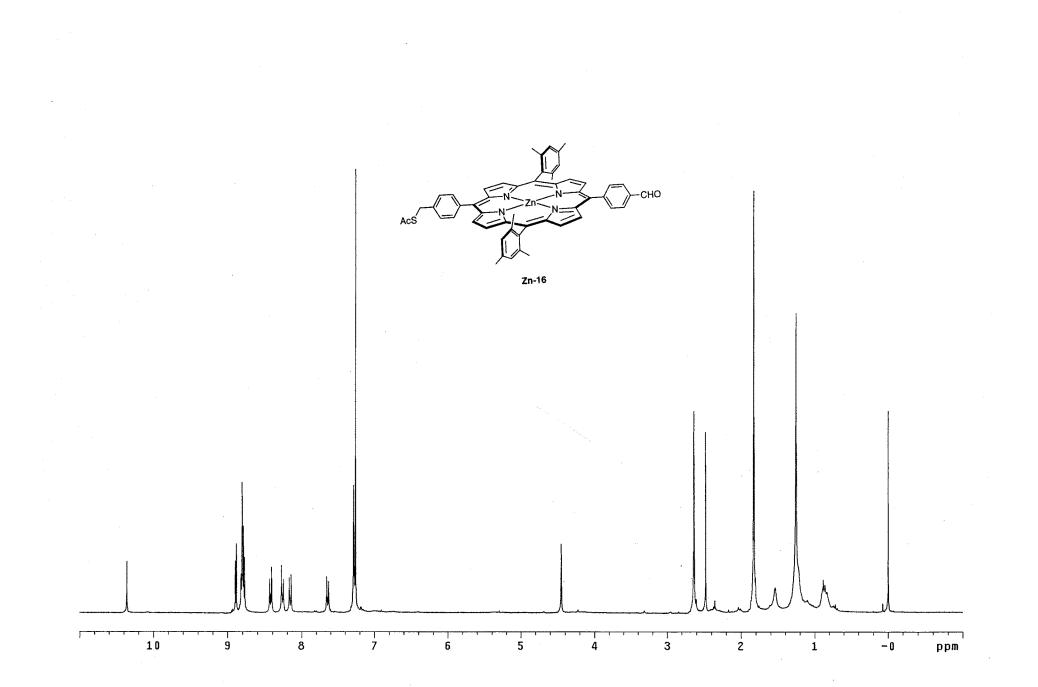


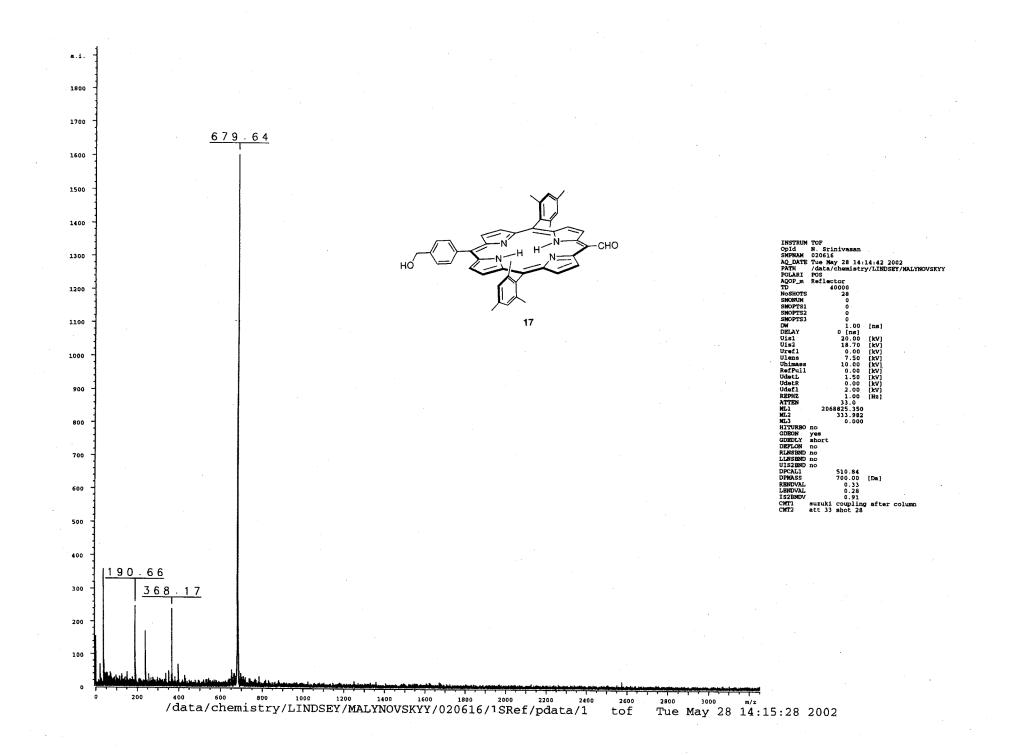


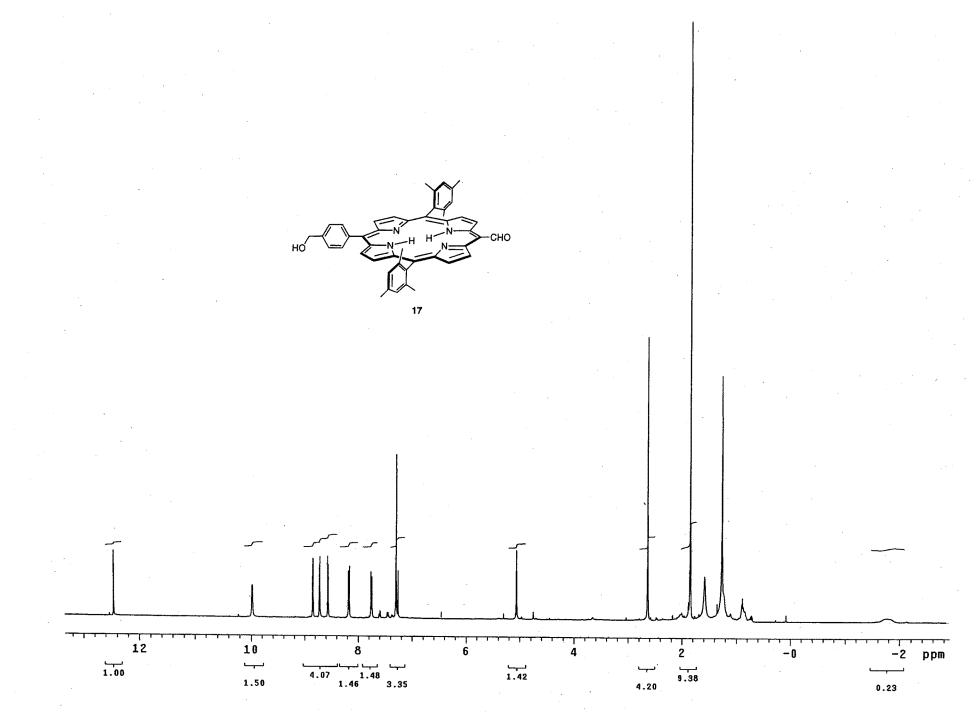


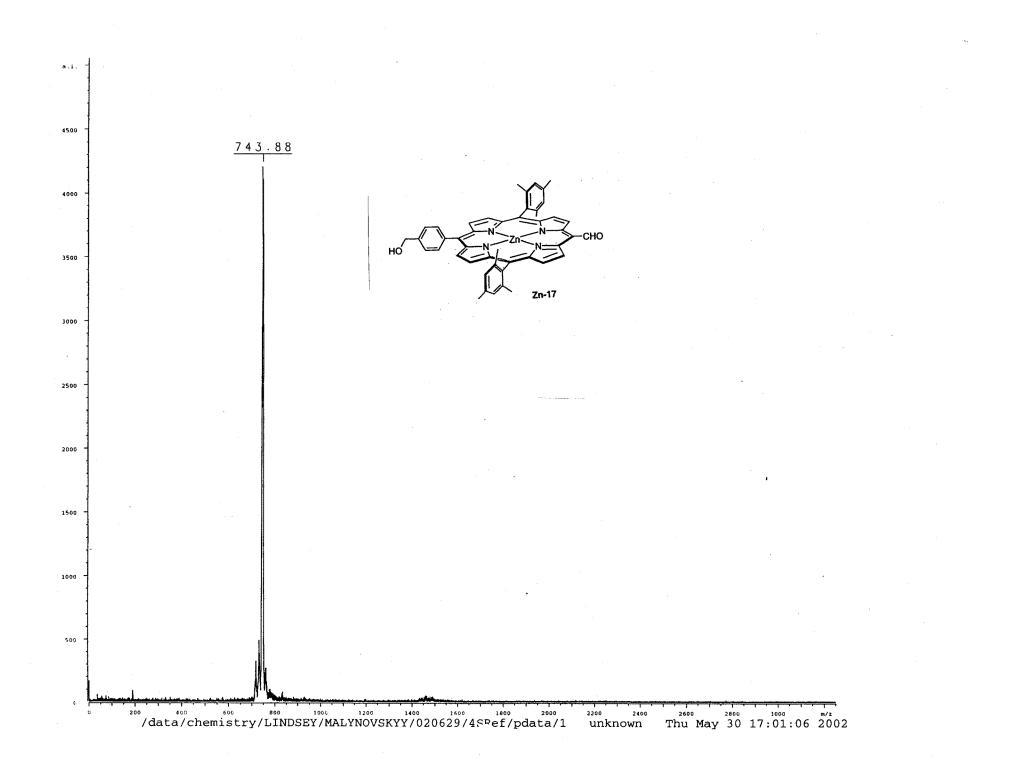


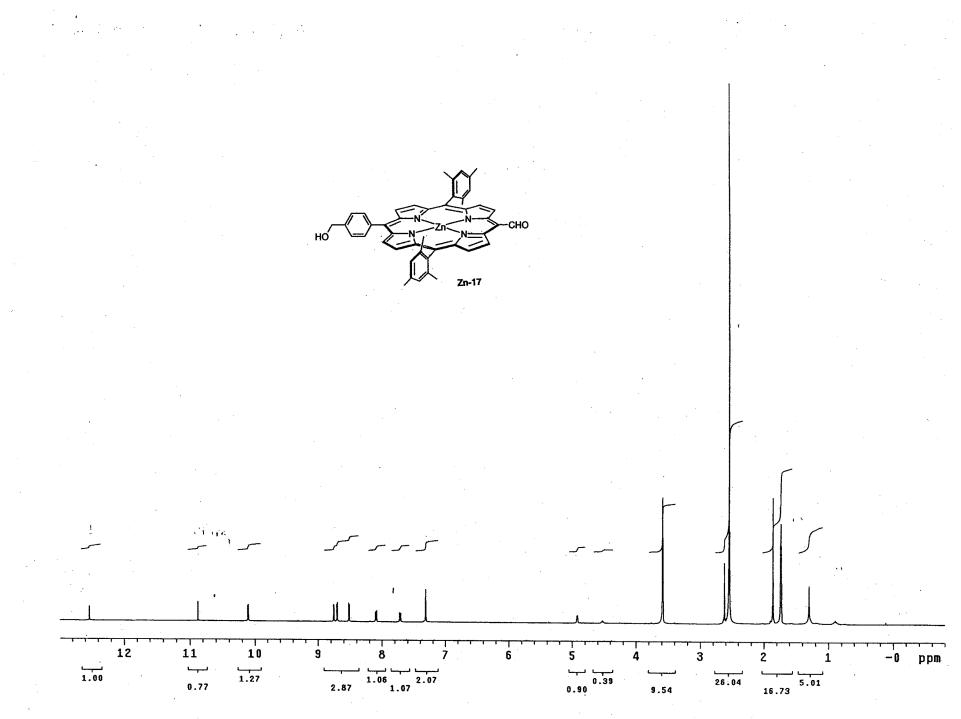


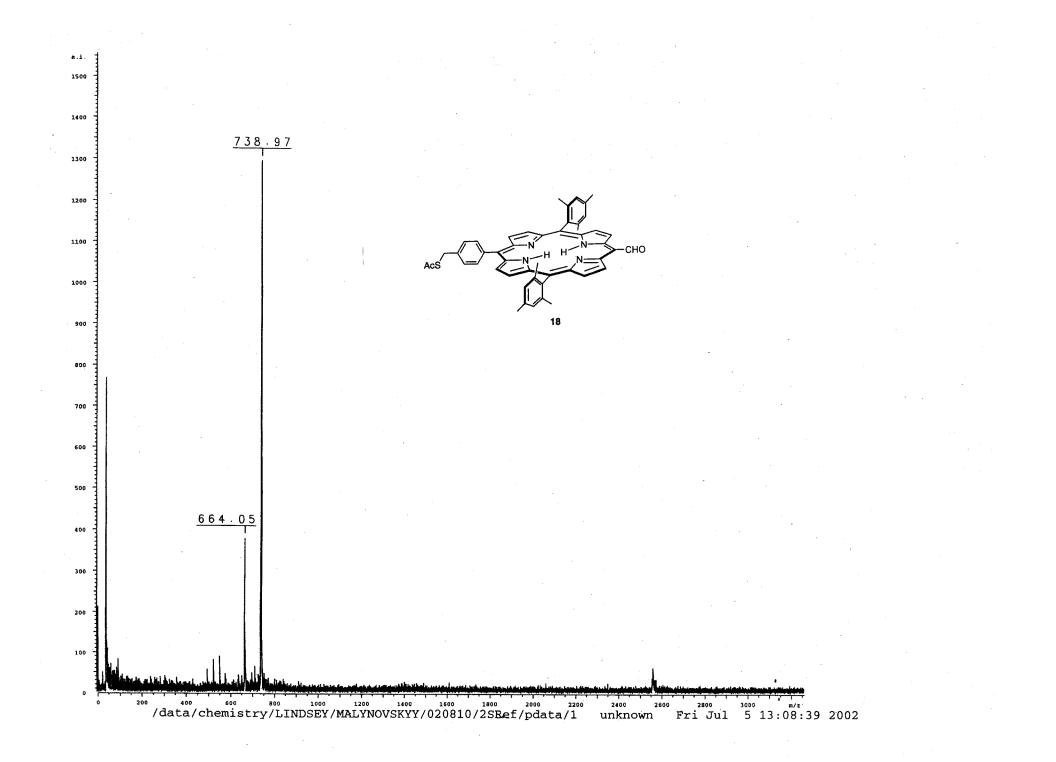


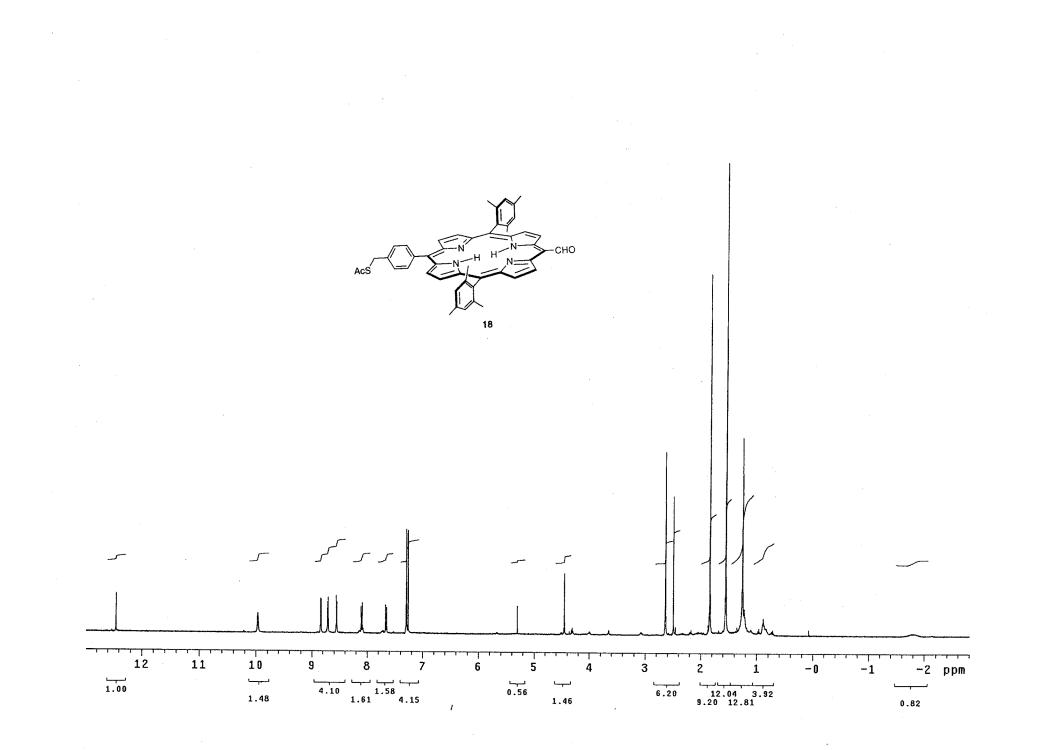


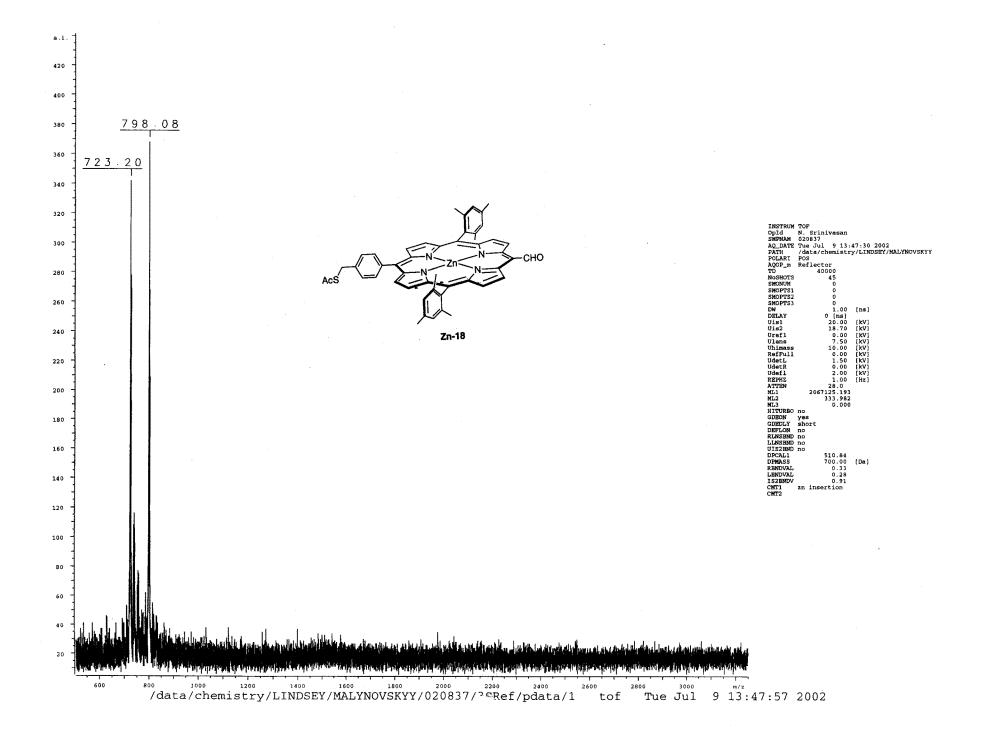


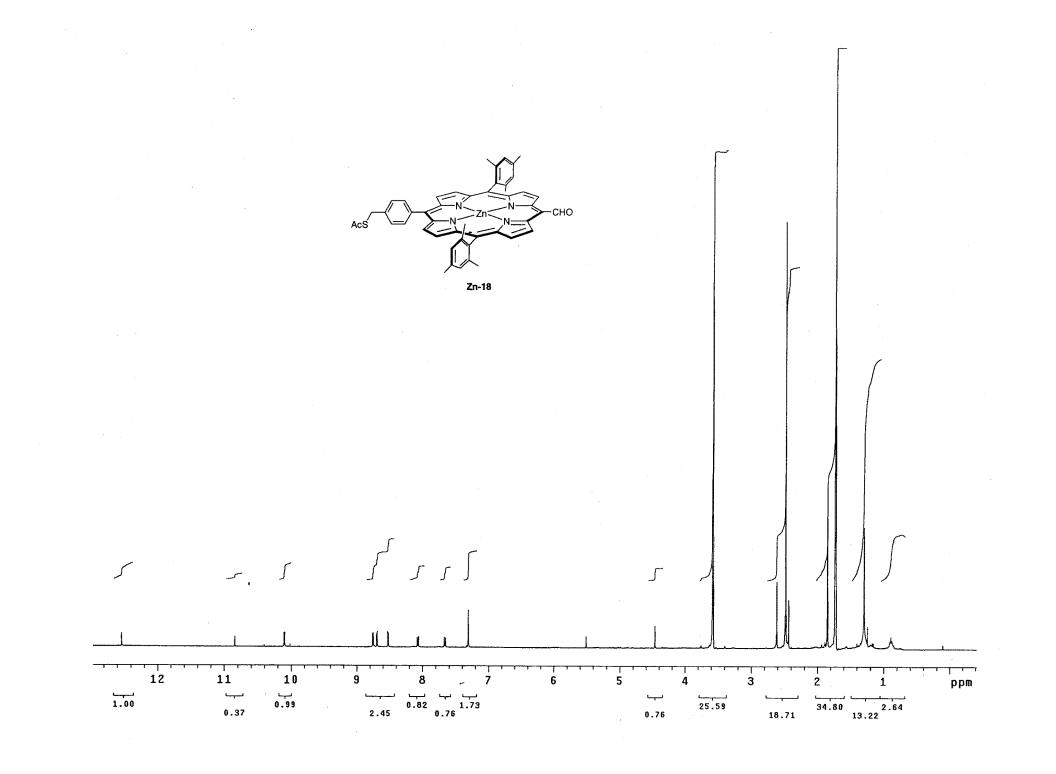


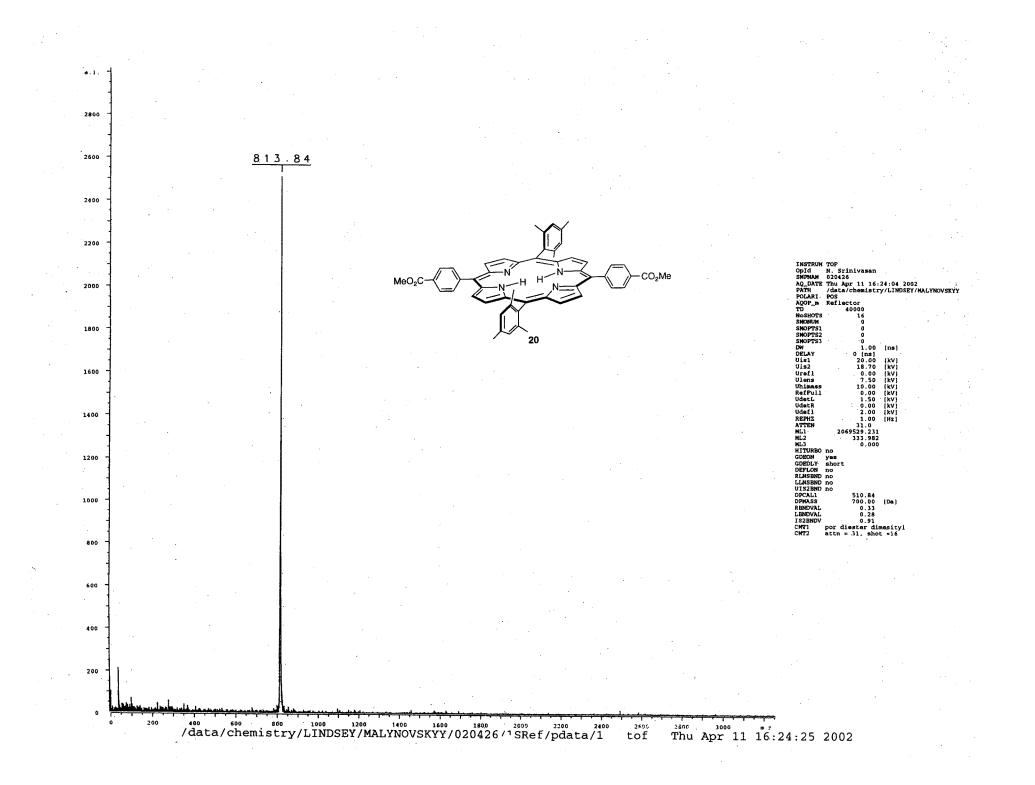


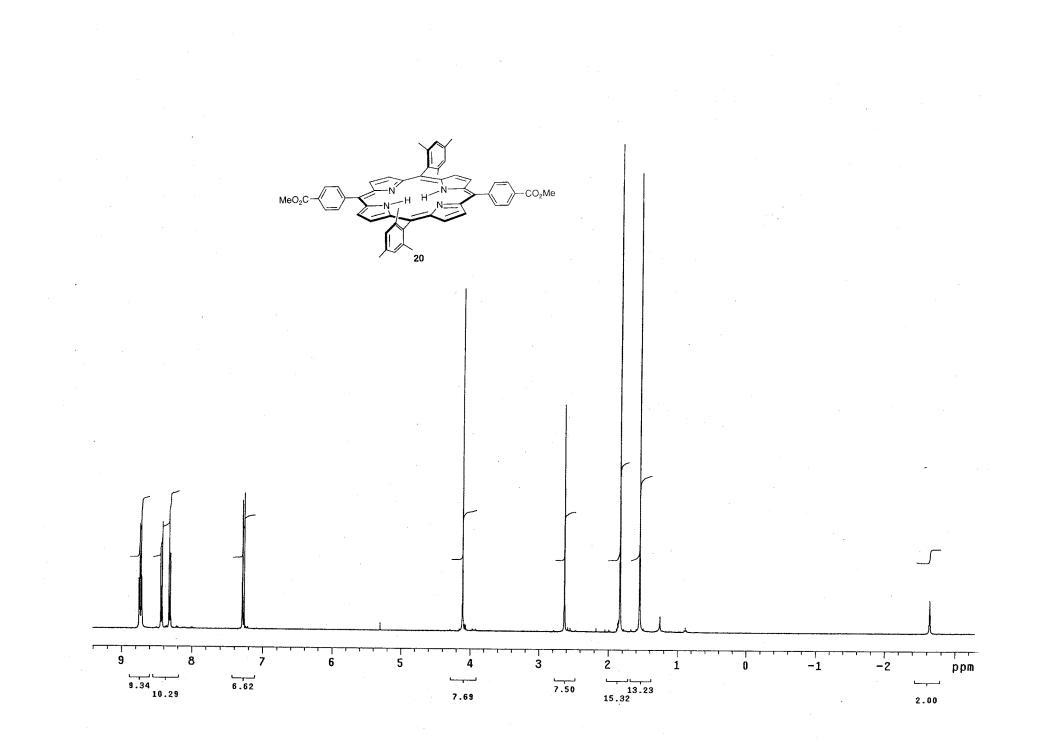


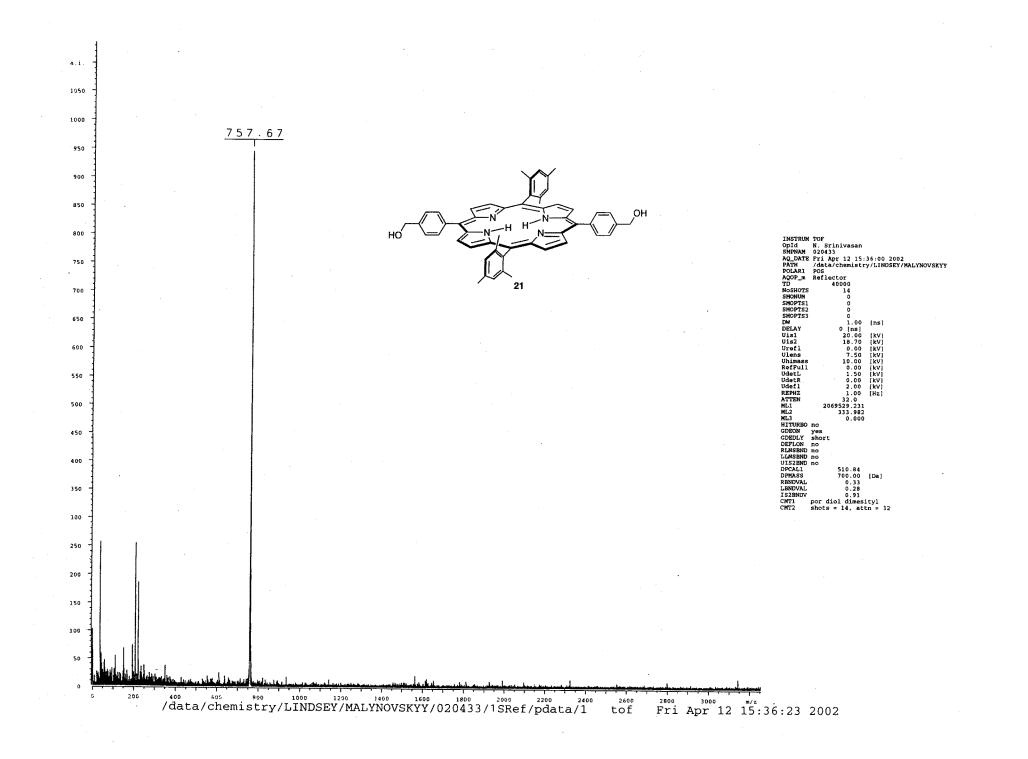


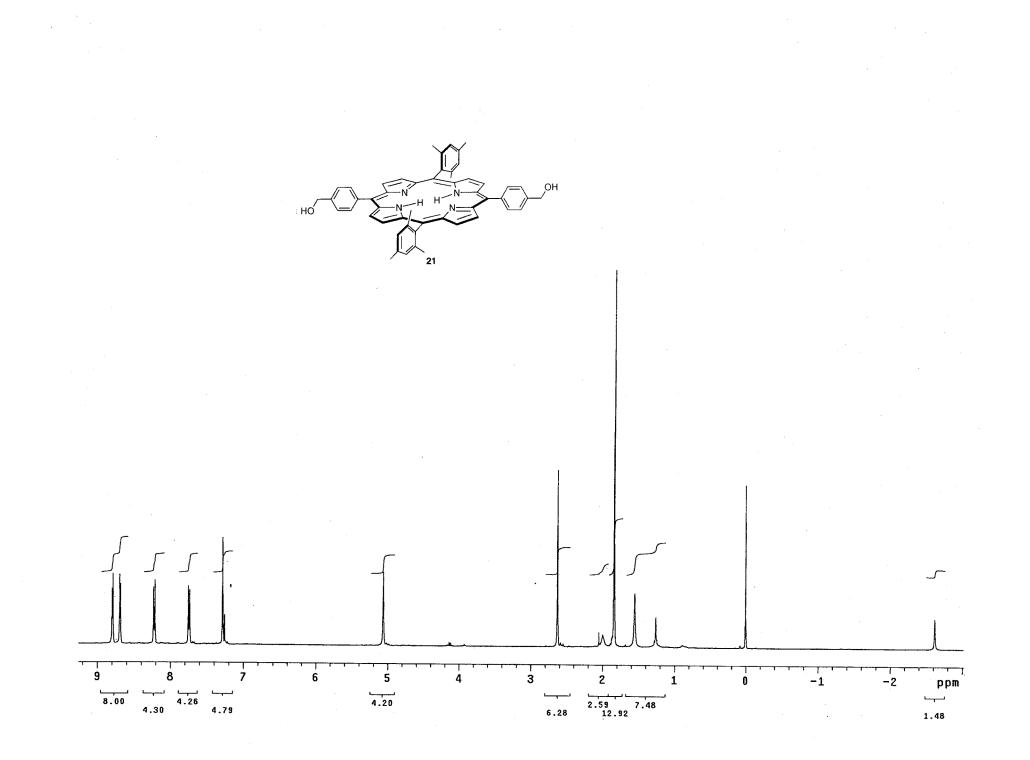


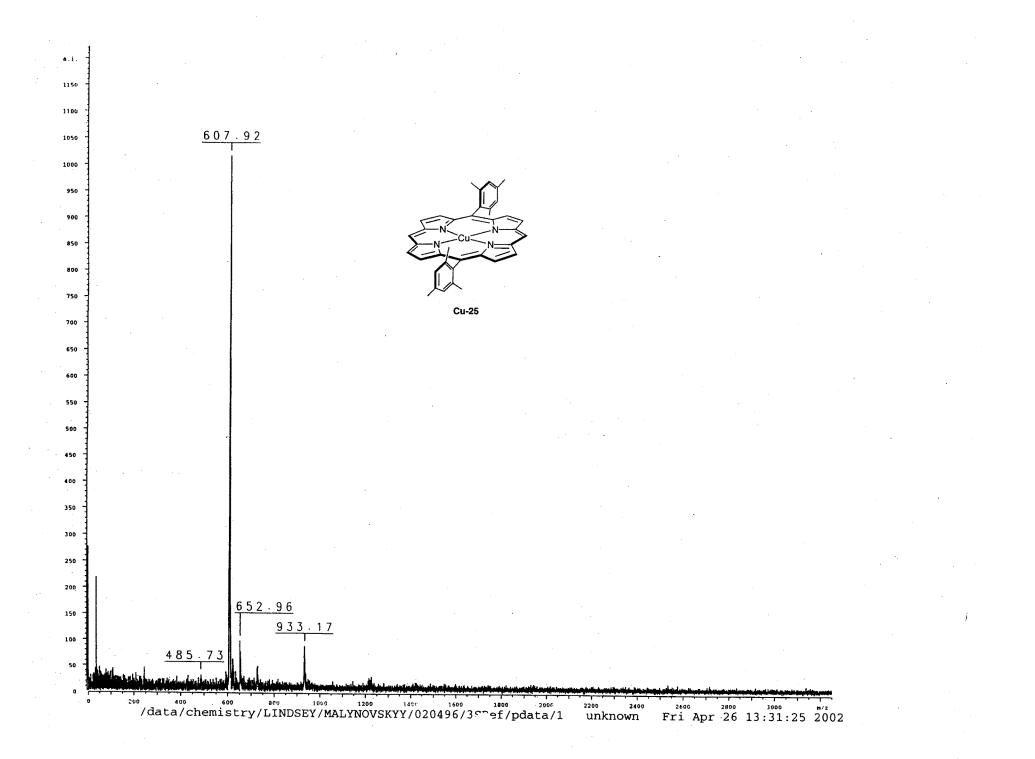


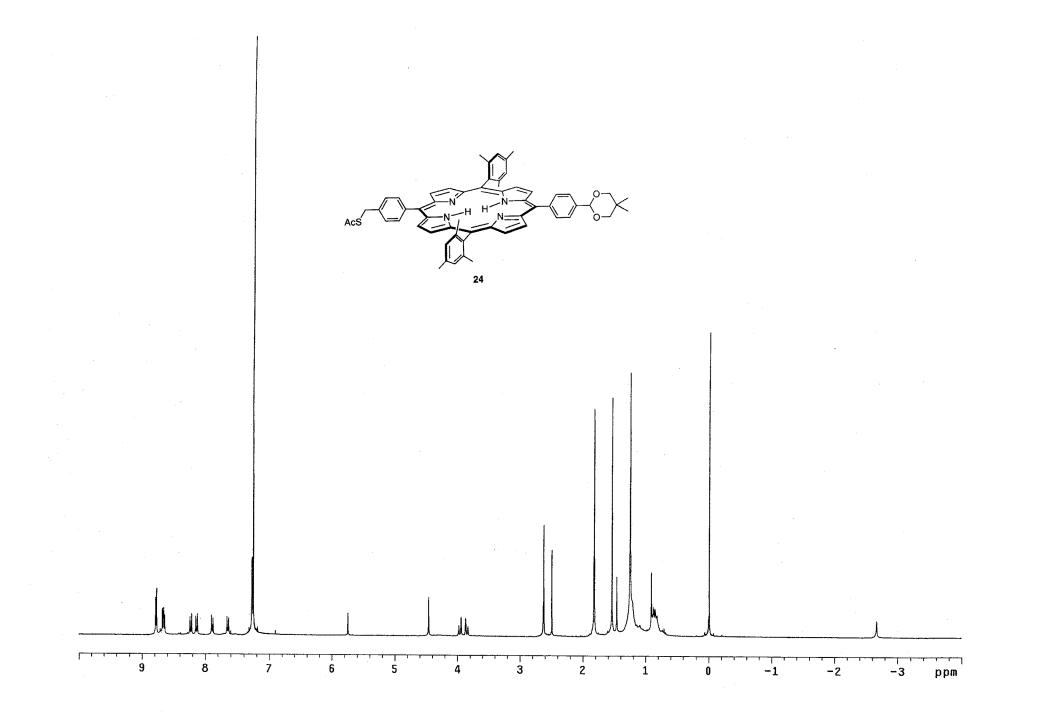


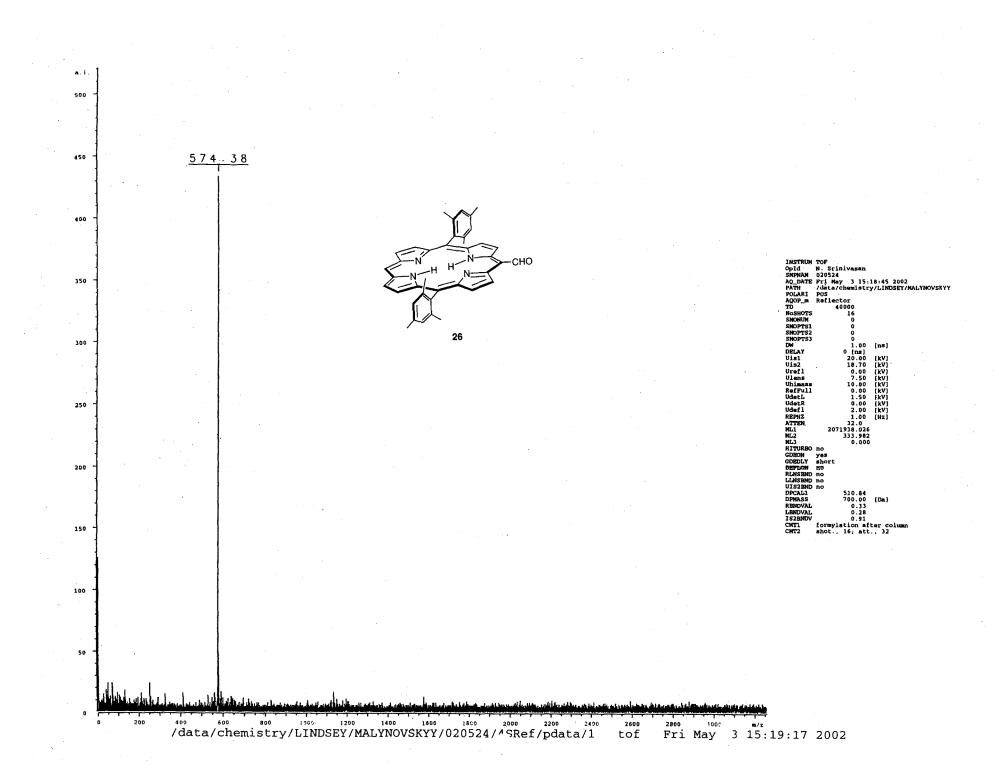


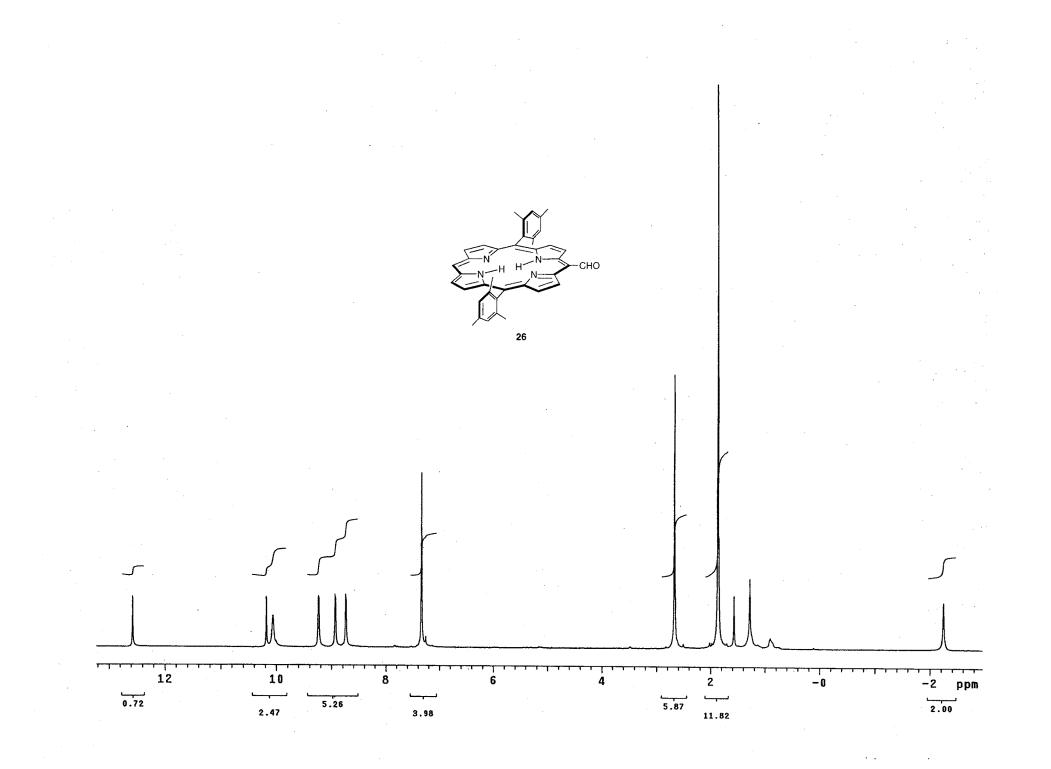


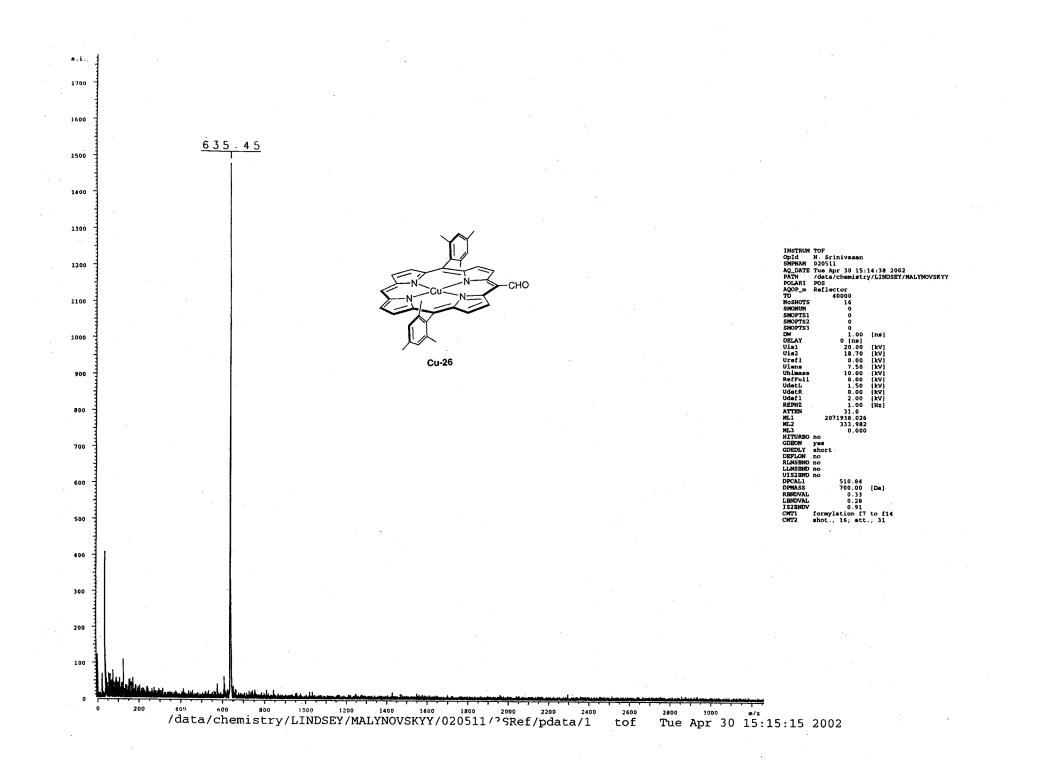


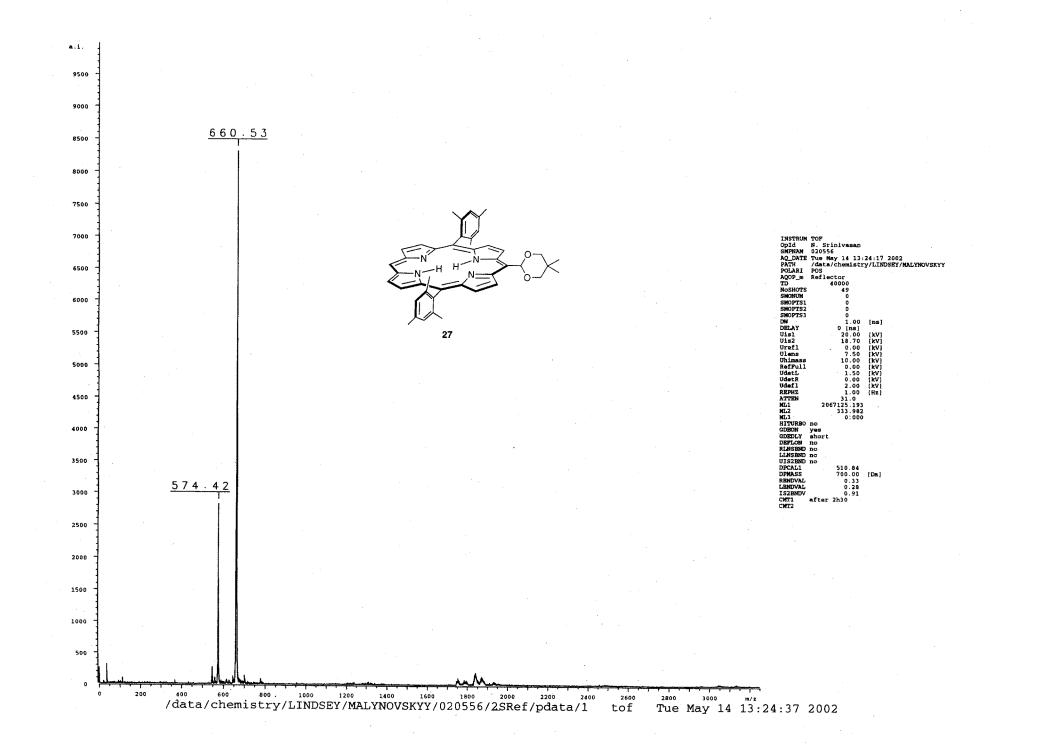


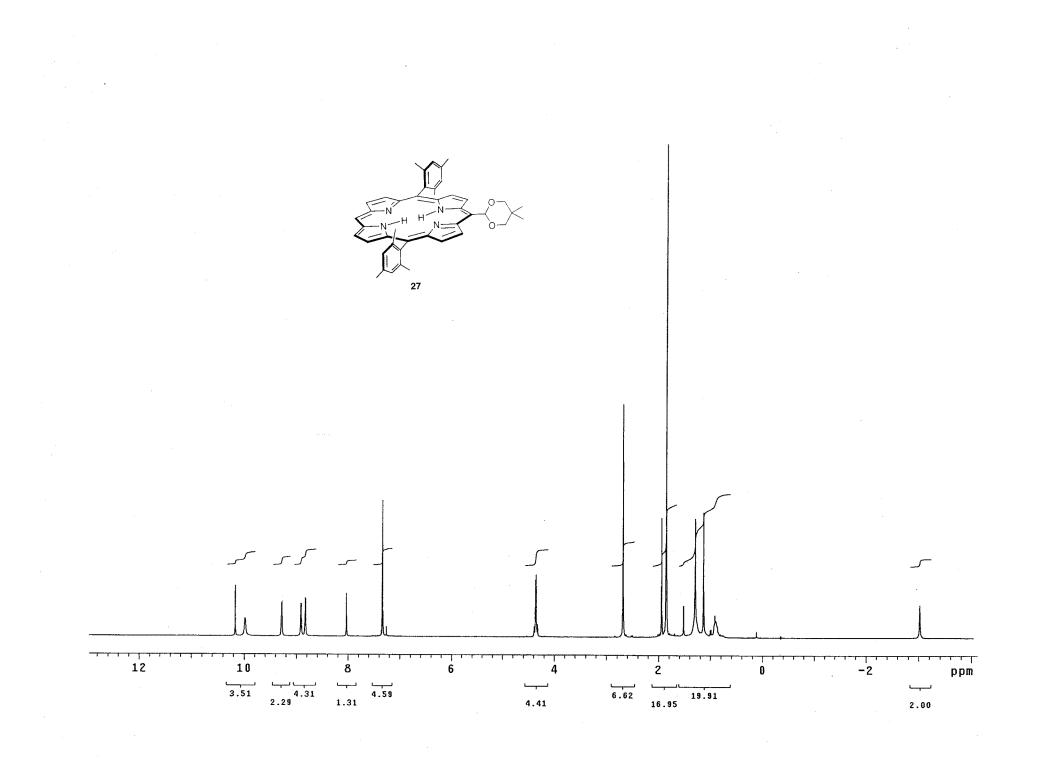


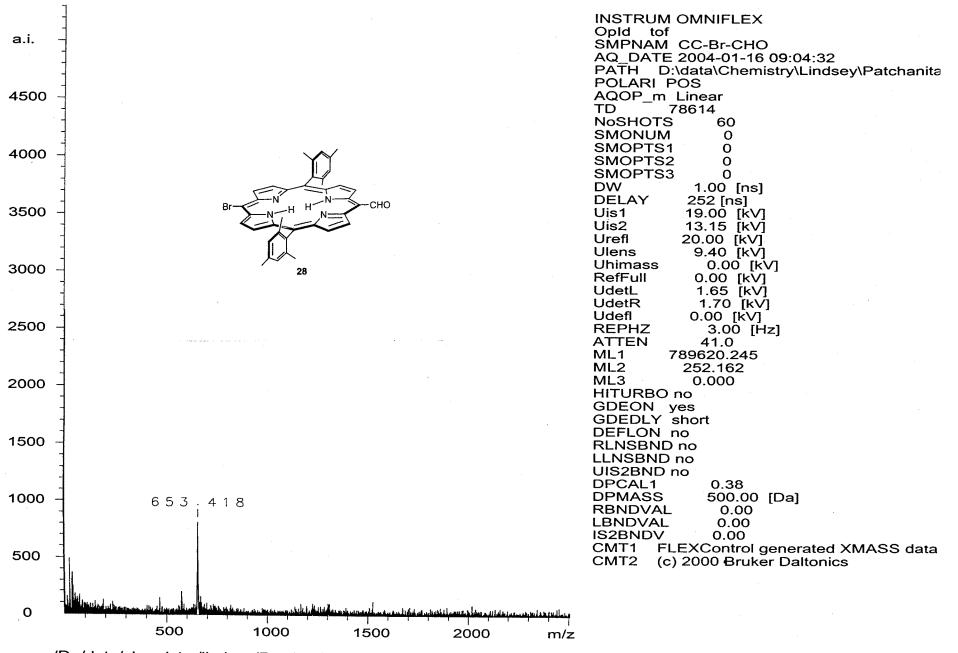




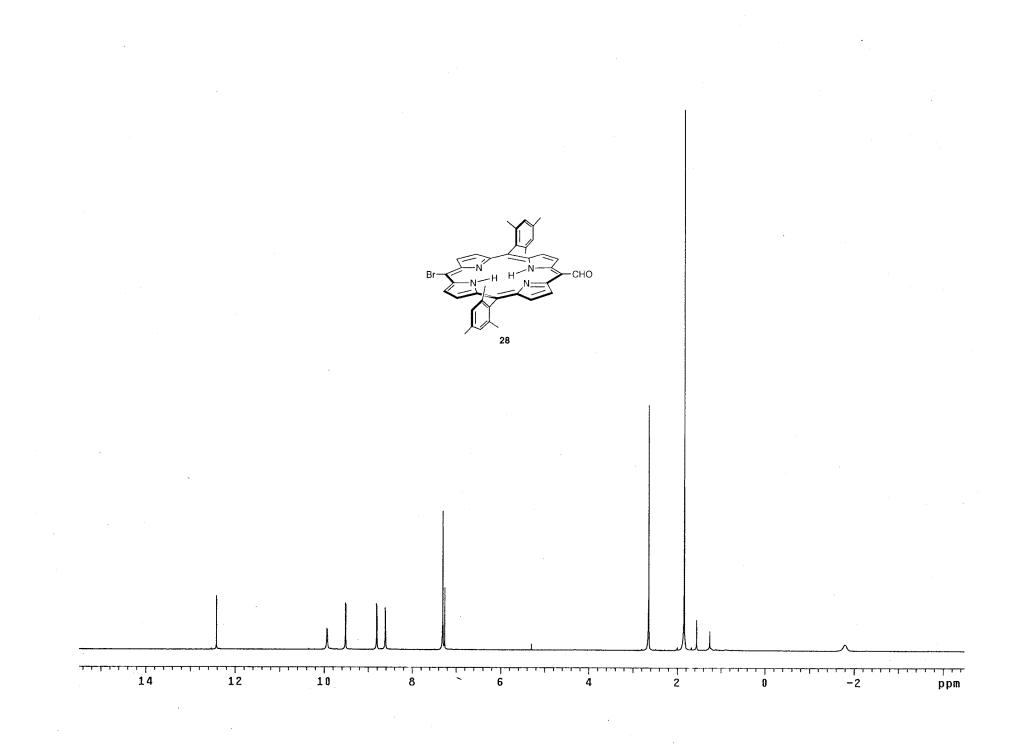


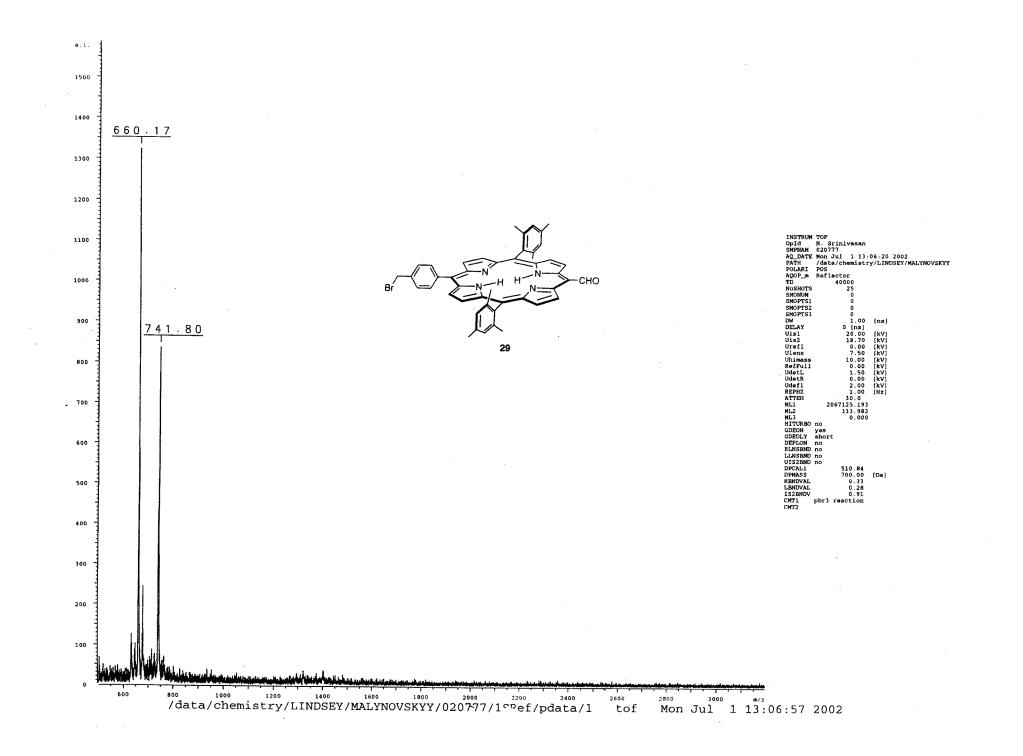






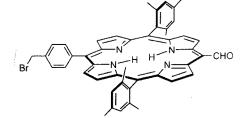
/D=/data/chemistry/lindsey/Patchanita/CC-Br-CHO/0_E5_1SRef/pdata/1 Administrator Fri Jan 16 09:05:48 2004











......

29

