ACCESSORY PUBLICATION FOR:

## Synthesis of 2,3-Dihydro-4(1H)-quinolones and the Corresponding 4(1H)-Quinolones via Low-temperature Fries Rearrangement of N-Arylazetidin-2-ones\*

Jens Lange, A Alex C. Bissember, Martin G. Banwell, A,B and Ian A. Cade

<sup>A</sup>Research School of Chemistry, Institute of Advanced Studies, The Australian National University, Canberra, ACT 0200, Australia.

Contents

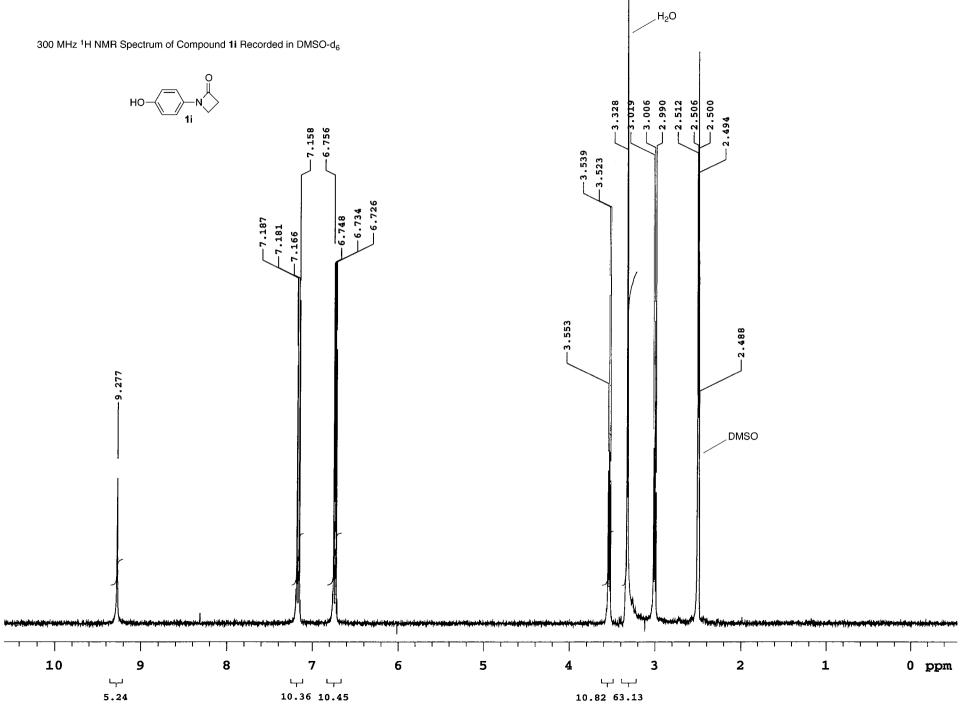
<sup>1</sup>H and <sup>13</sup>C NMR Spectra for Compounds 1i, 1o, 1s, 1t, 1u, 2o, 2p, 2q, 2r, 2s, 2t, 2u,
8a, 8b, 8d, 8e, 8f and 8g
S2–S37

2. ORTEPs for Compounds 1j, 1u, 2n(b) and 2q S38–S39

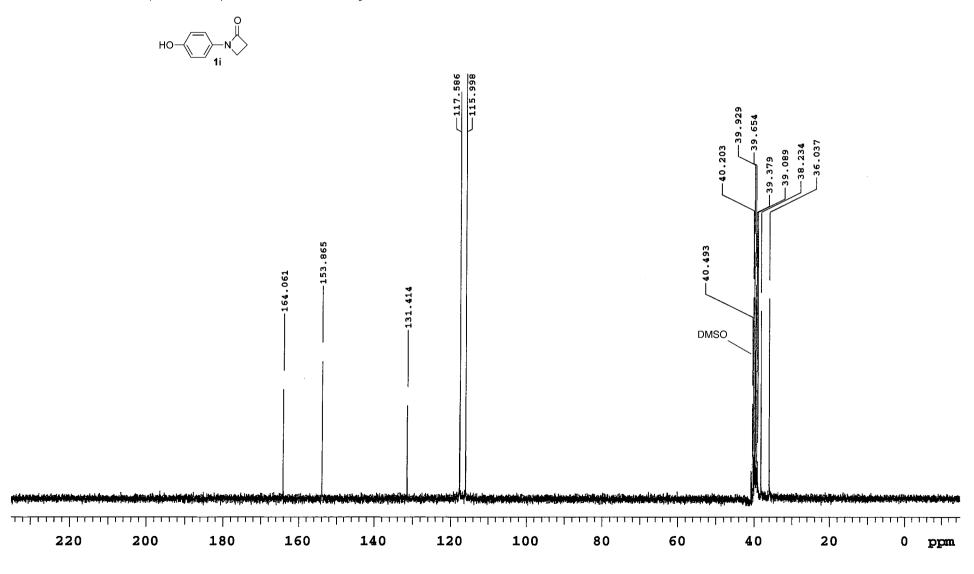
\_

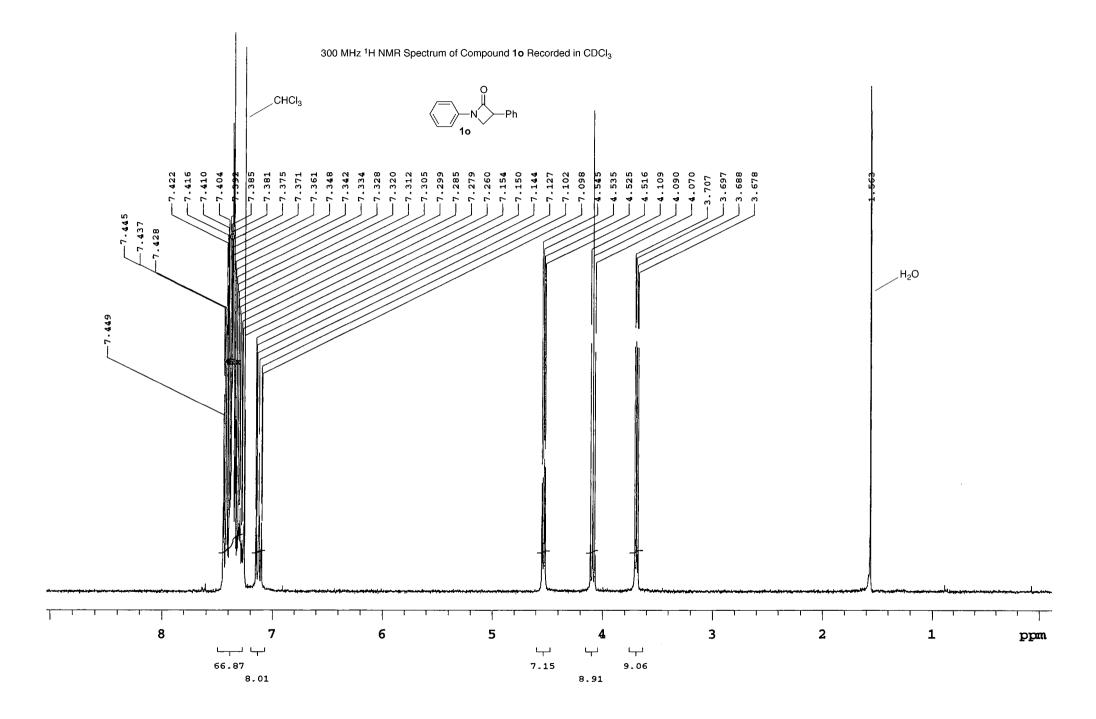
<sup>&</sup>lt;sup>B</sup>Corresponding author. Email: mgb@rsc.anu.edu.au

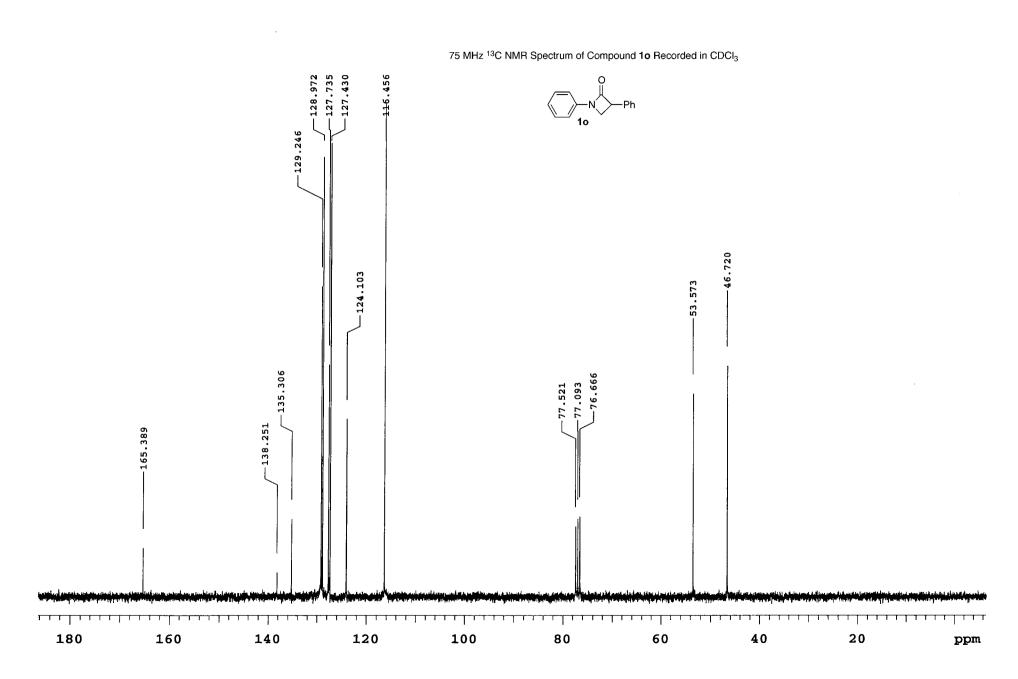
<sup>\*</sup> Dedicated to the memory of Athel L. J. Beckwith FAA, FRS, an inspirational chemist and a wonderful friend and colleague, who died tragically on May 15<sup>th</sup>, 2010.

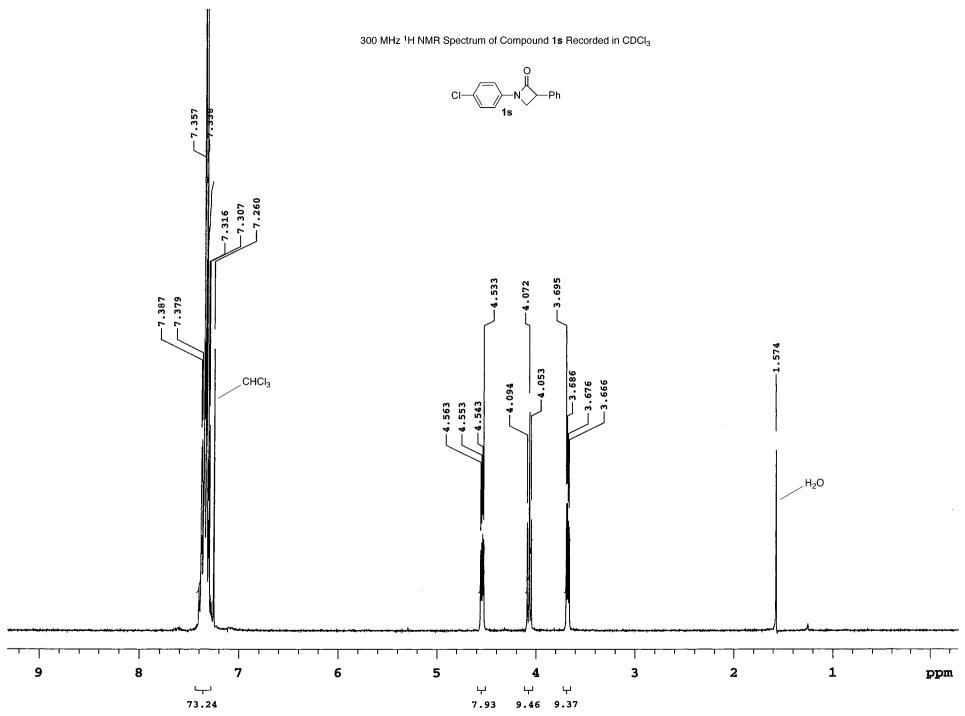


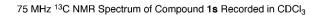


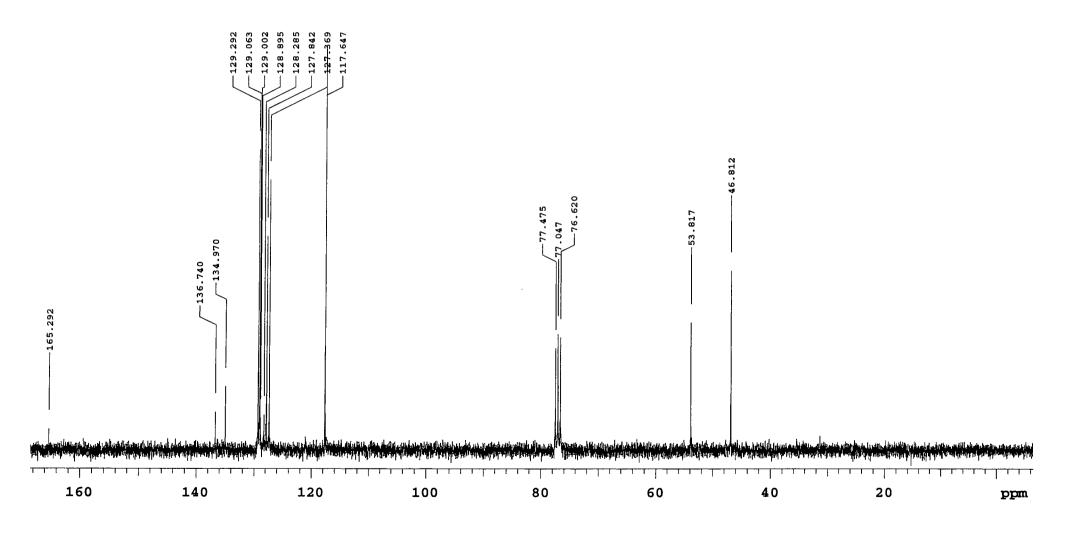


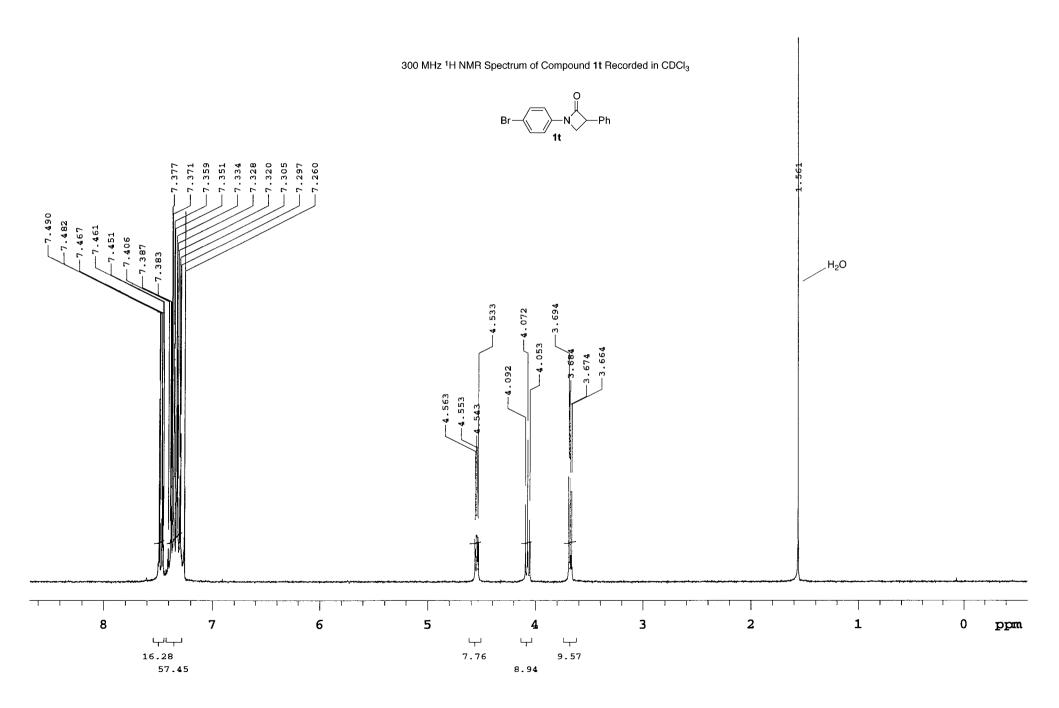




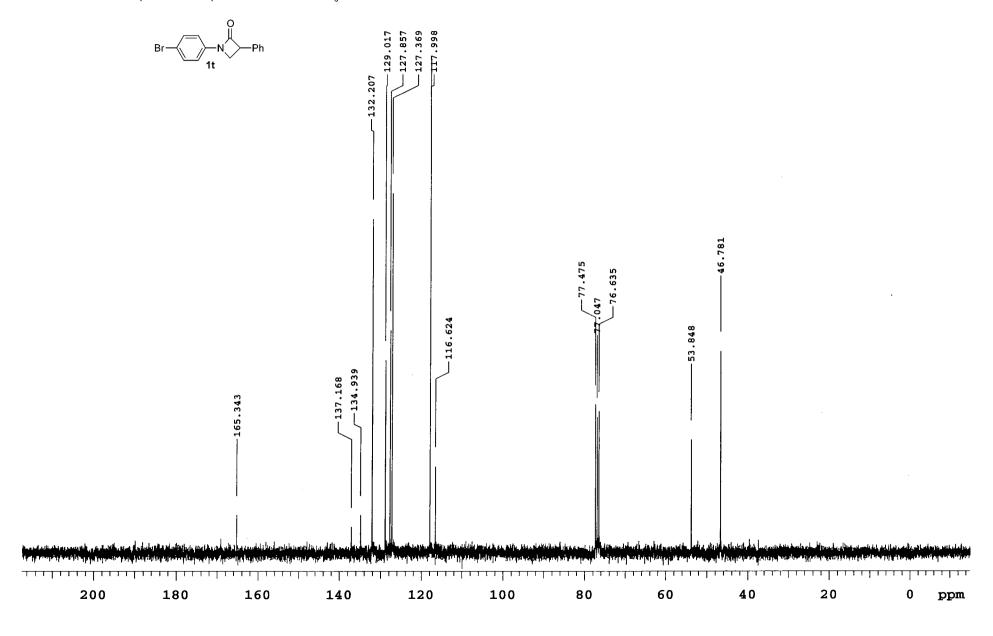


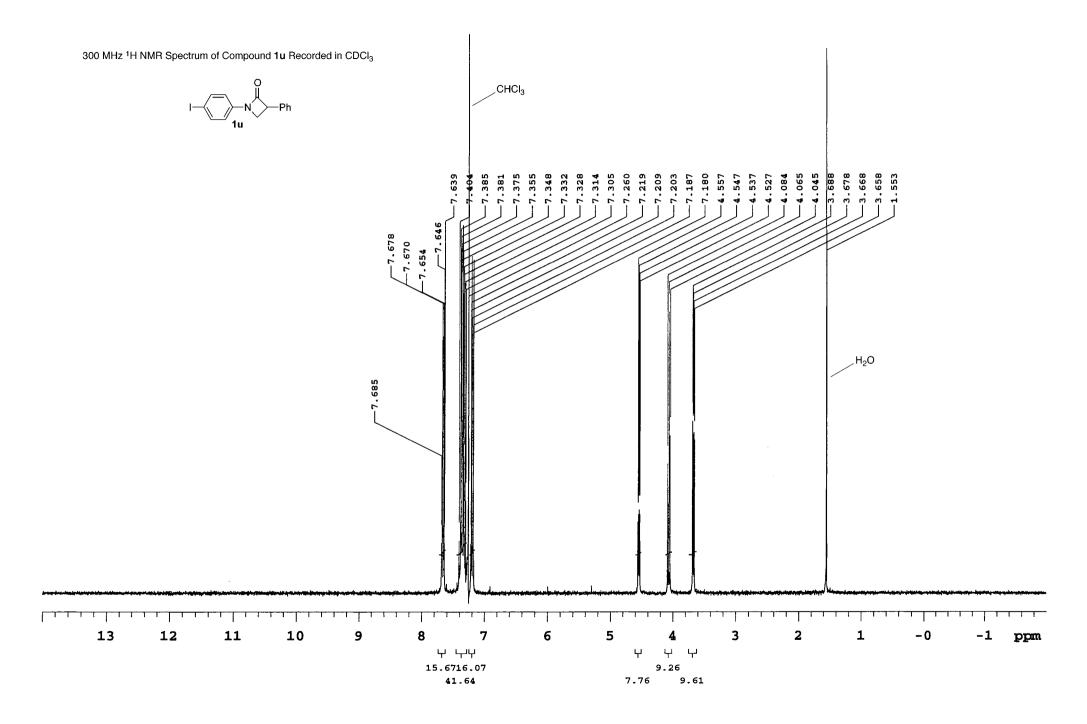




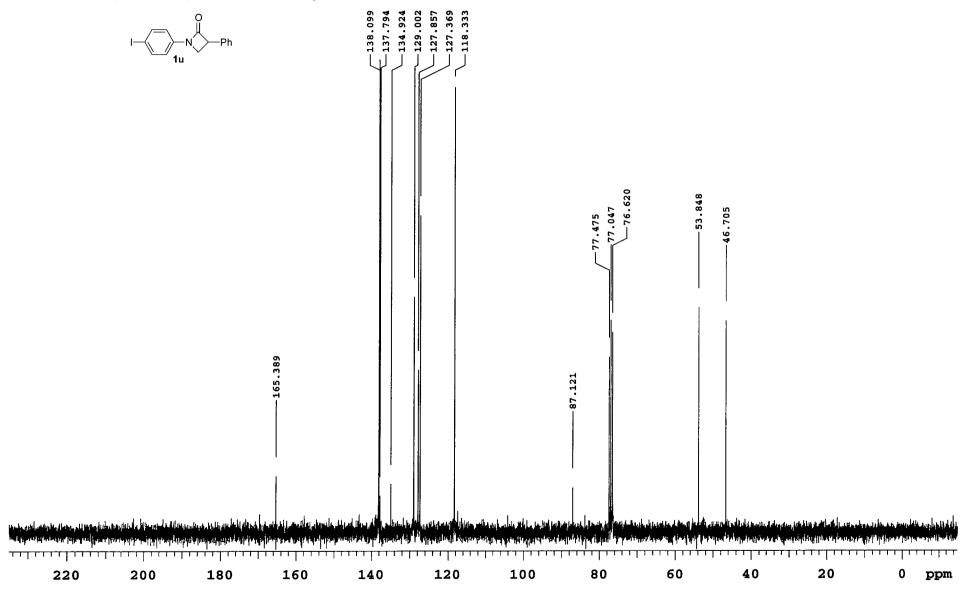


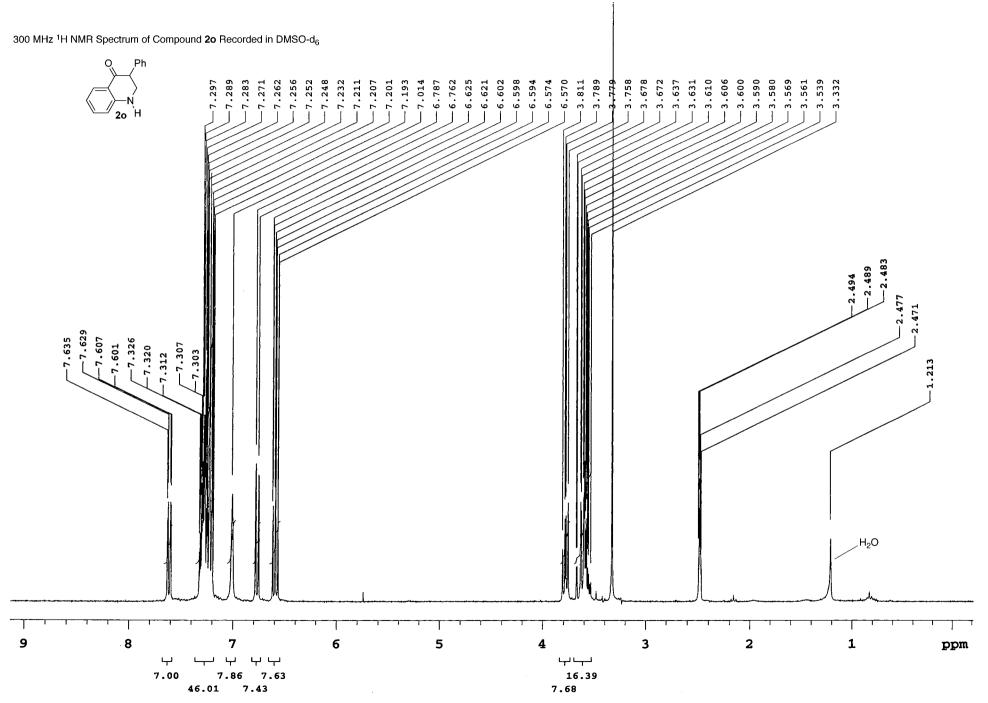
75 MHz <sup>13</sup>C NMR Spectrum of Compound 1t Recorded in CDCl<sub>3</sub>

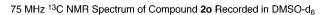


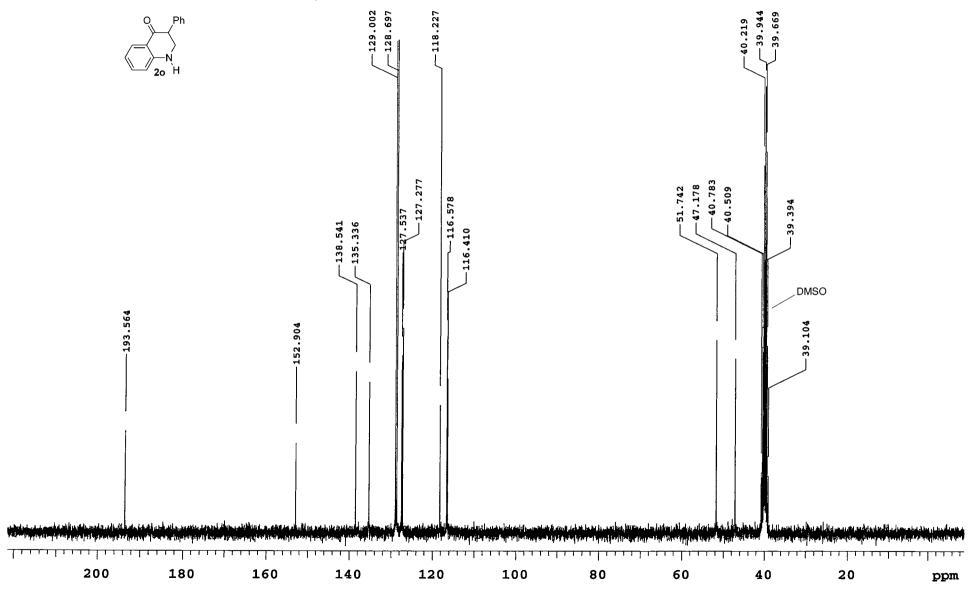


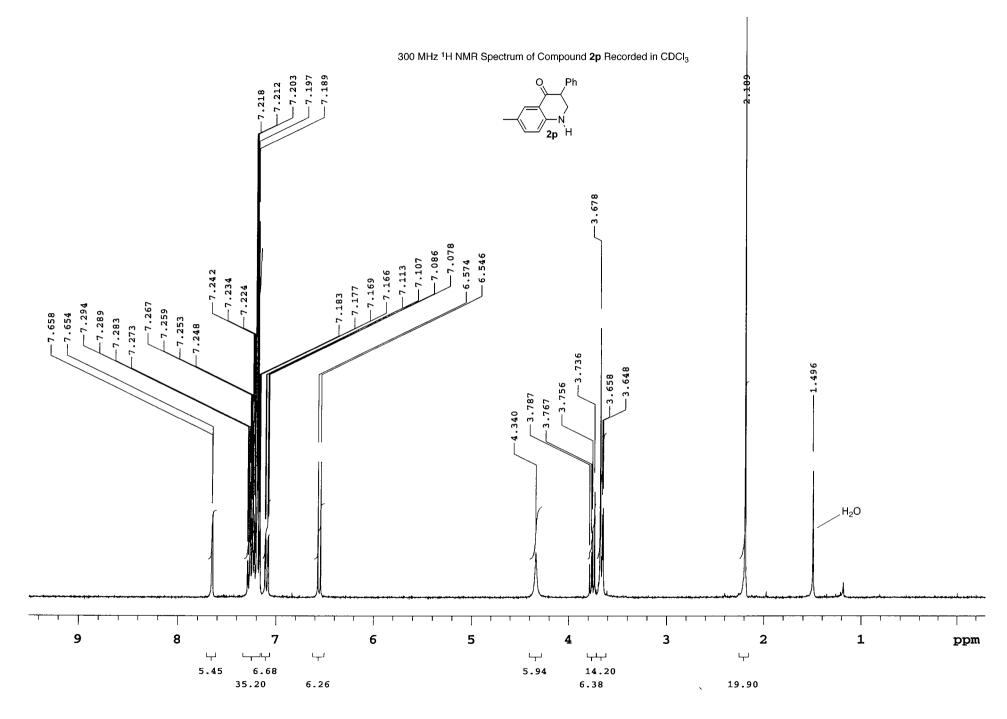


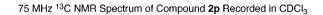




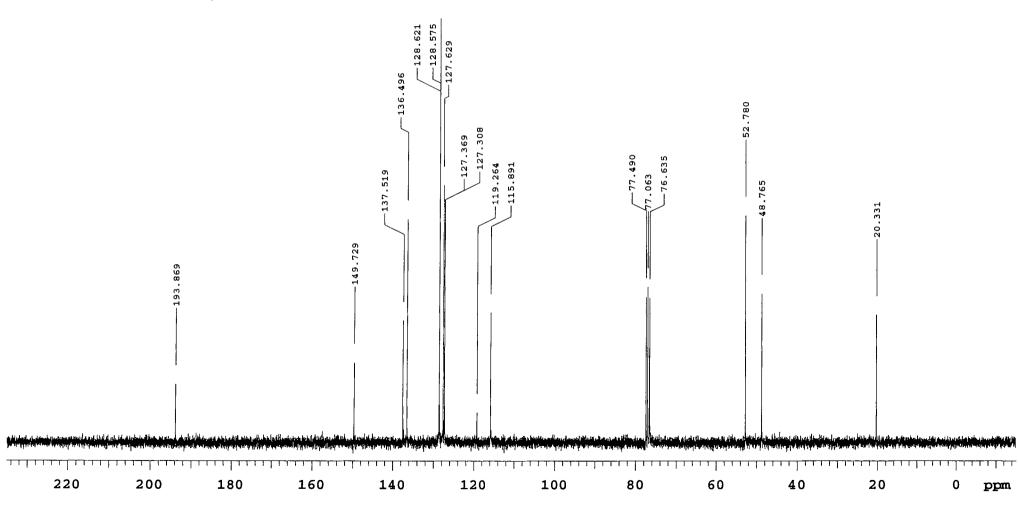


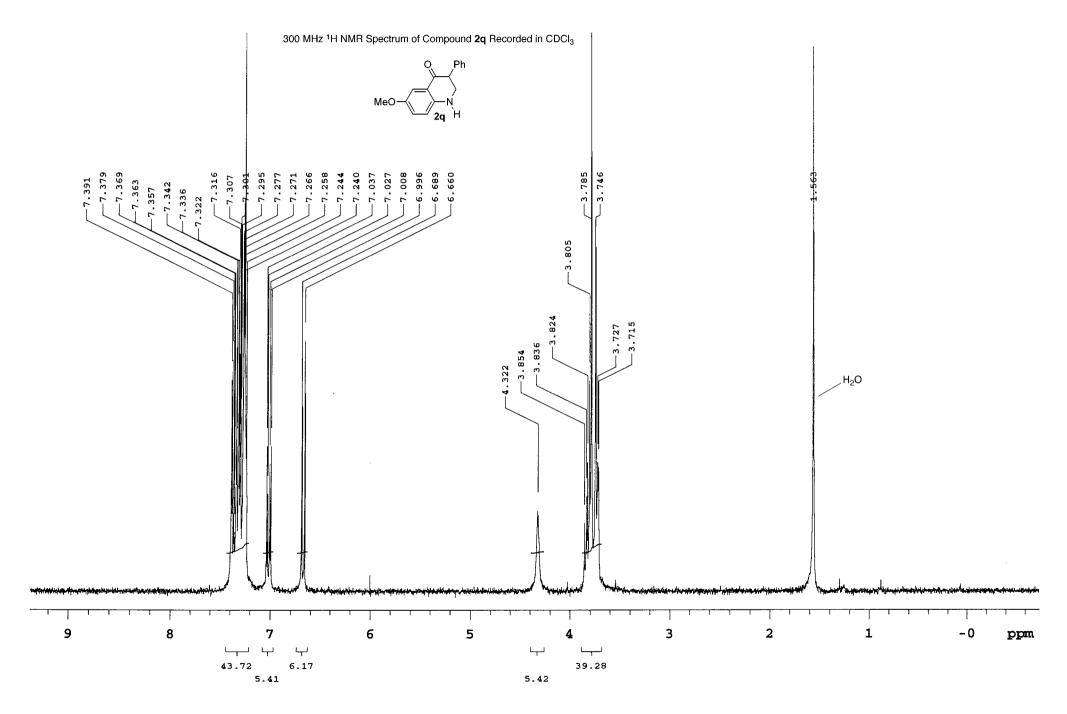


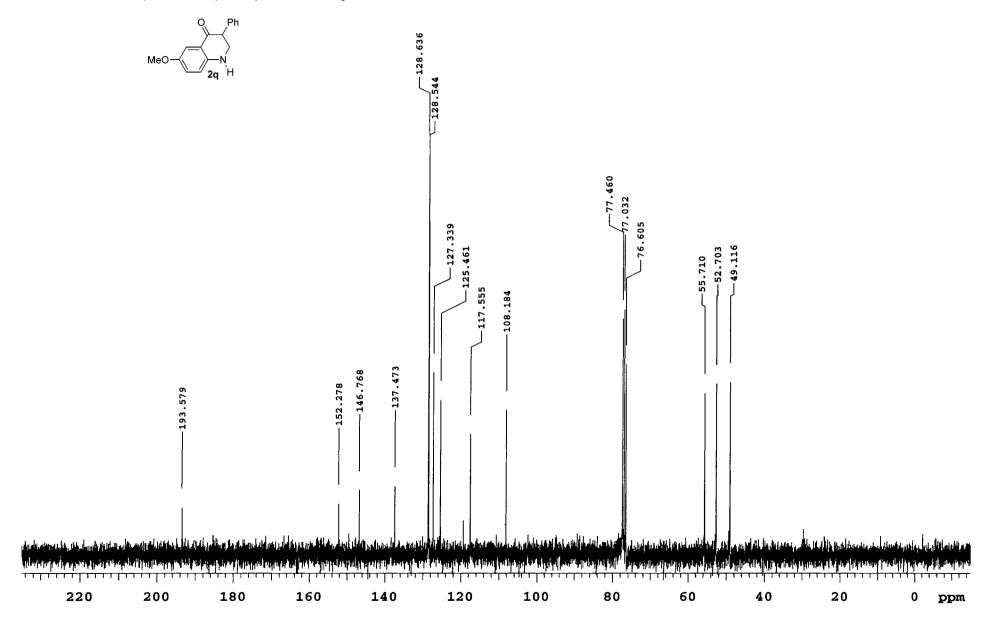


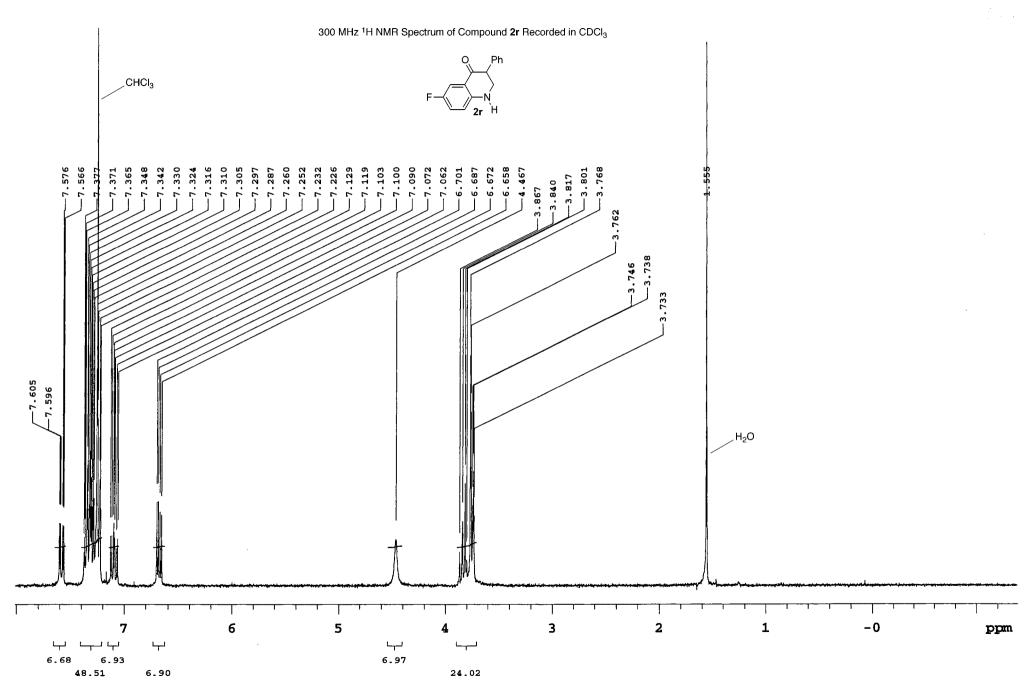


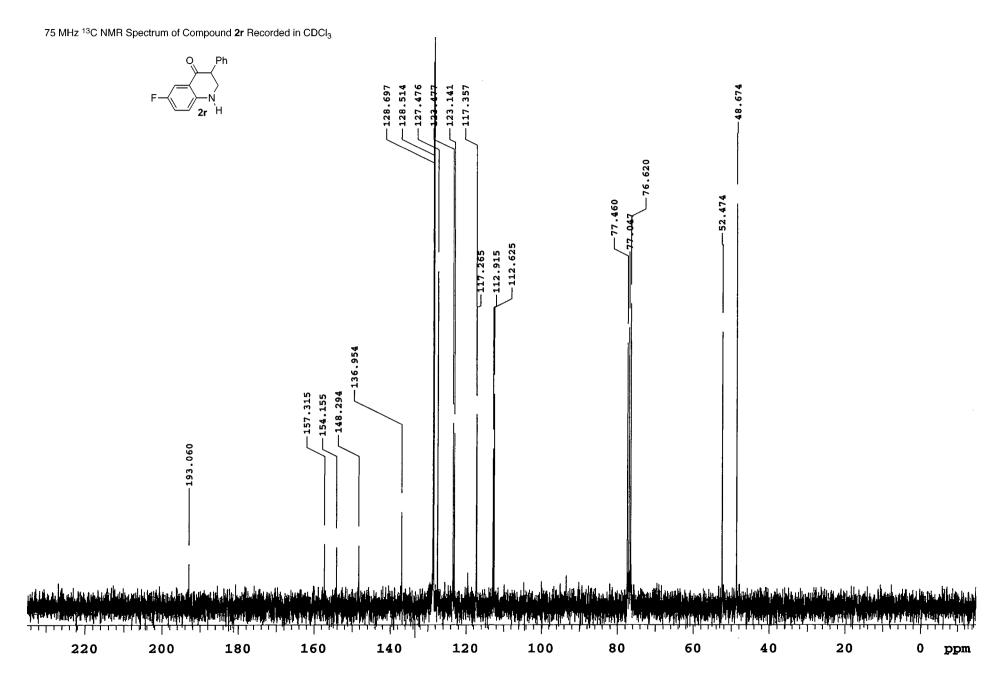


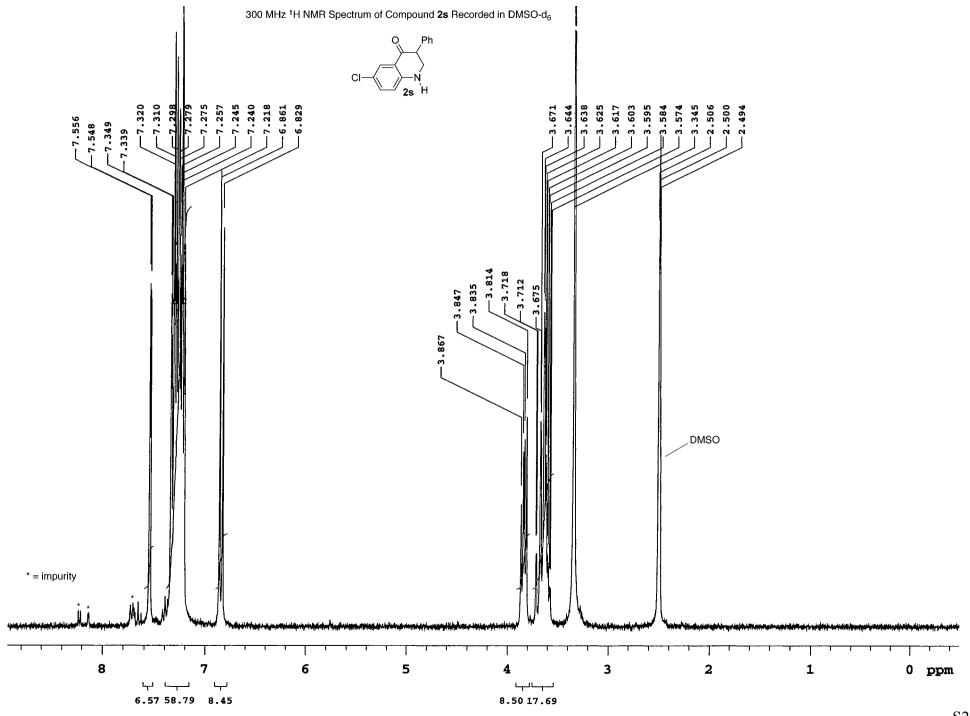


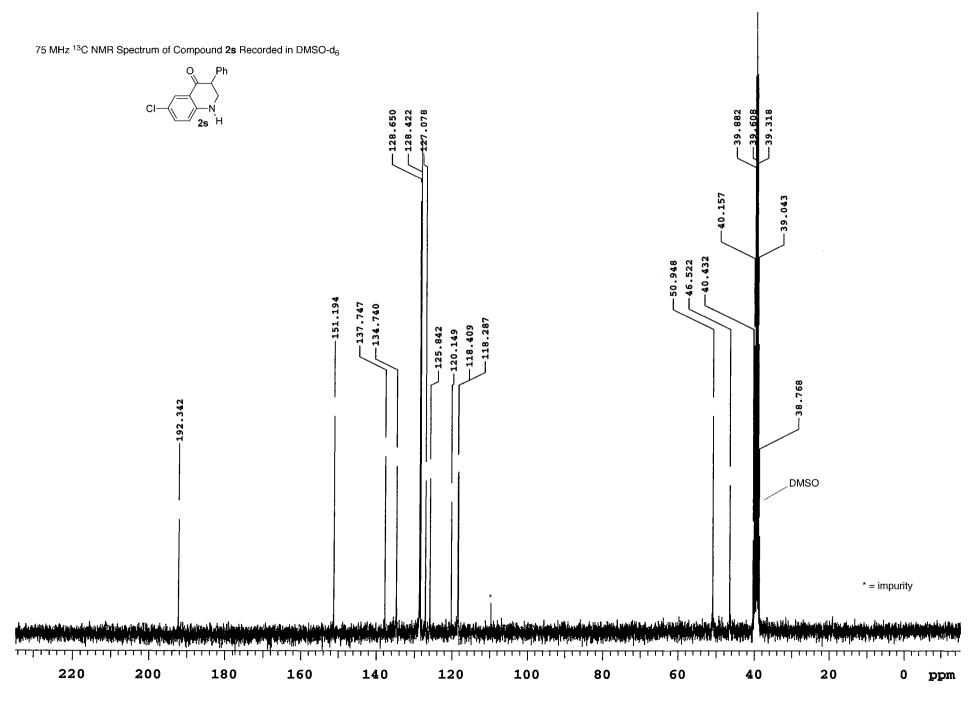


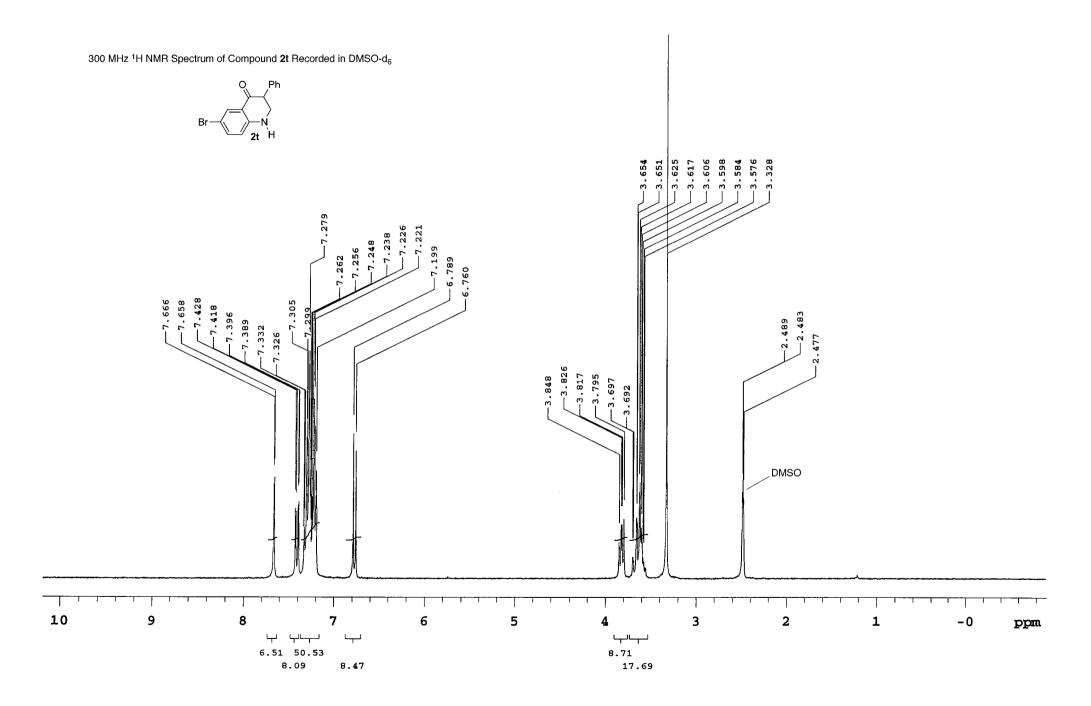




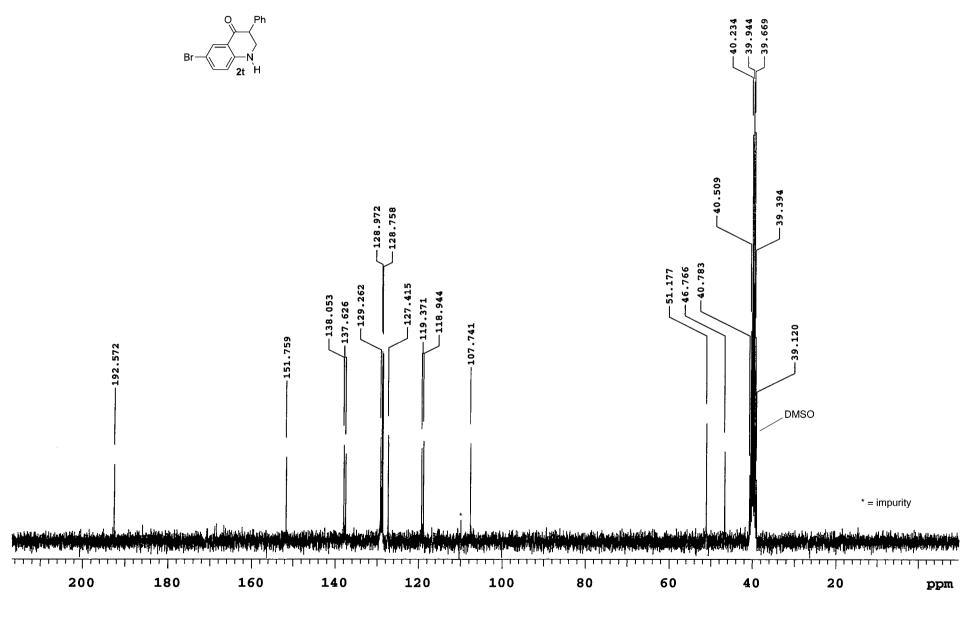


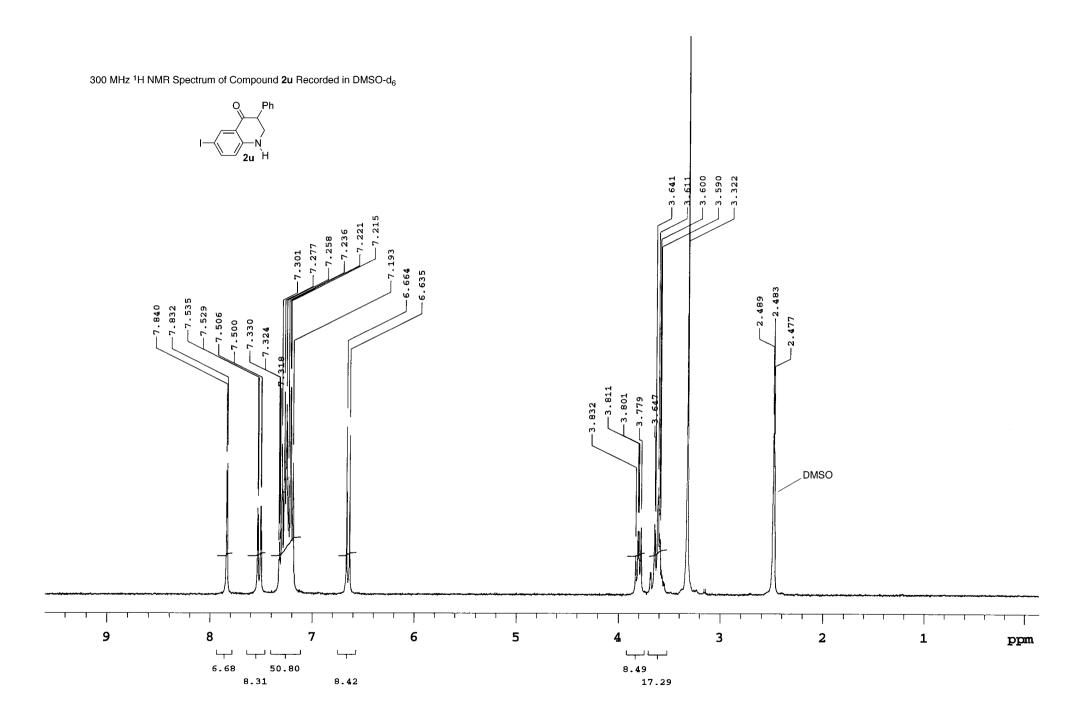


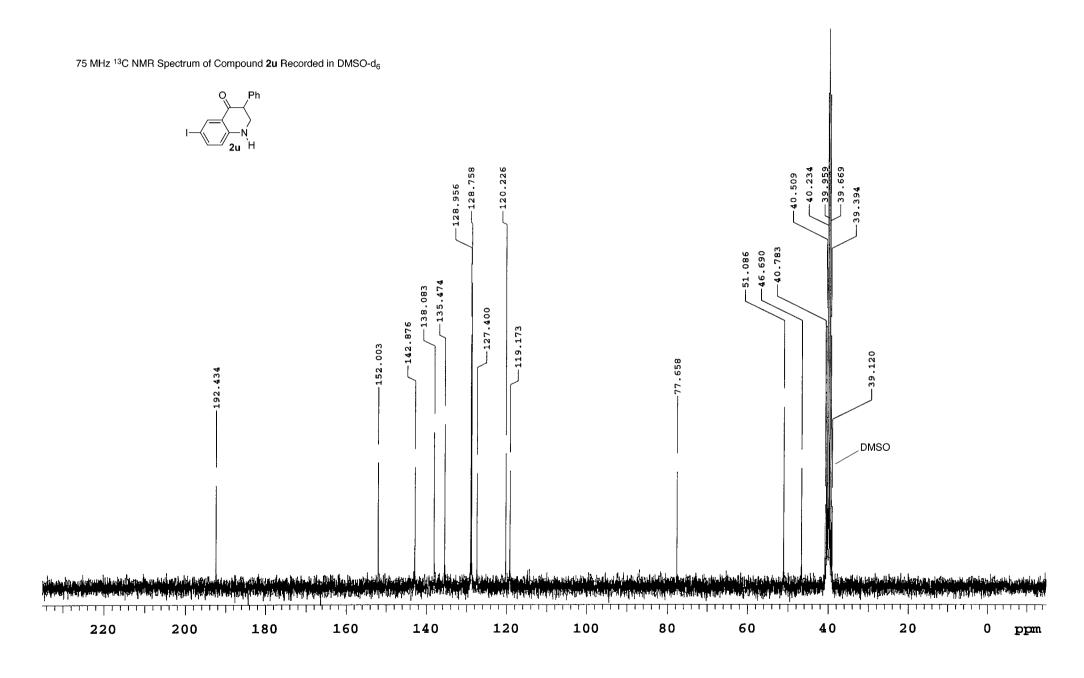


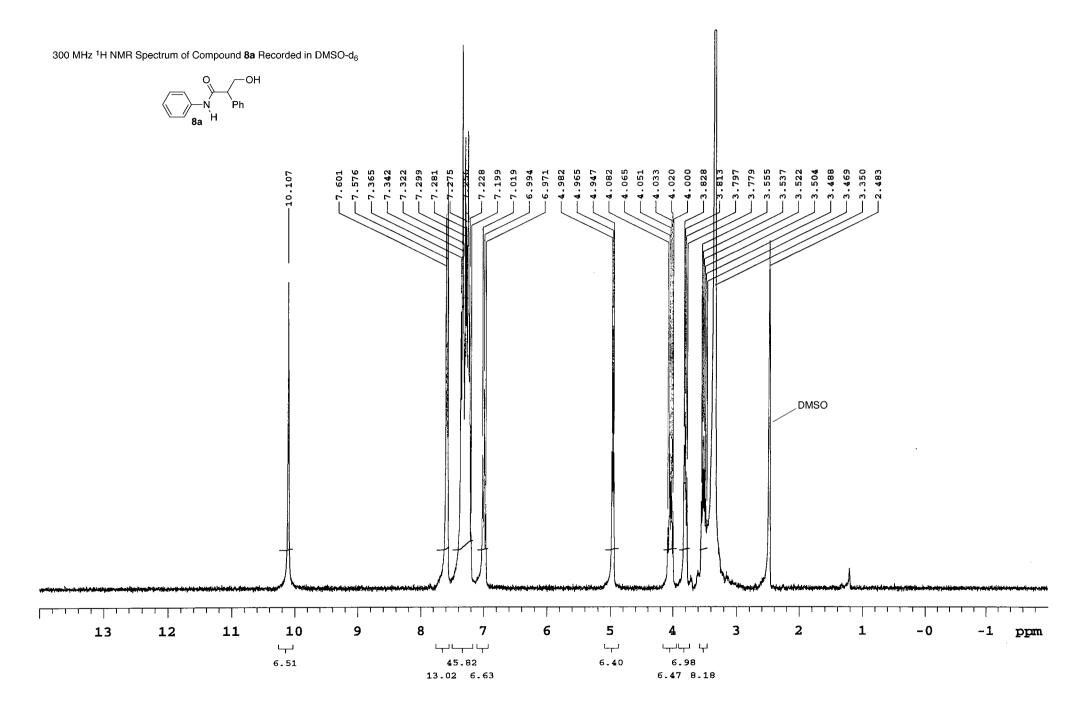




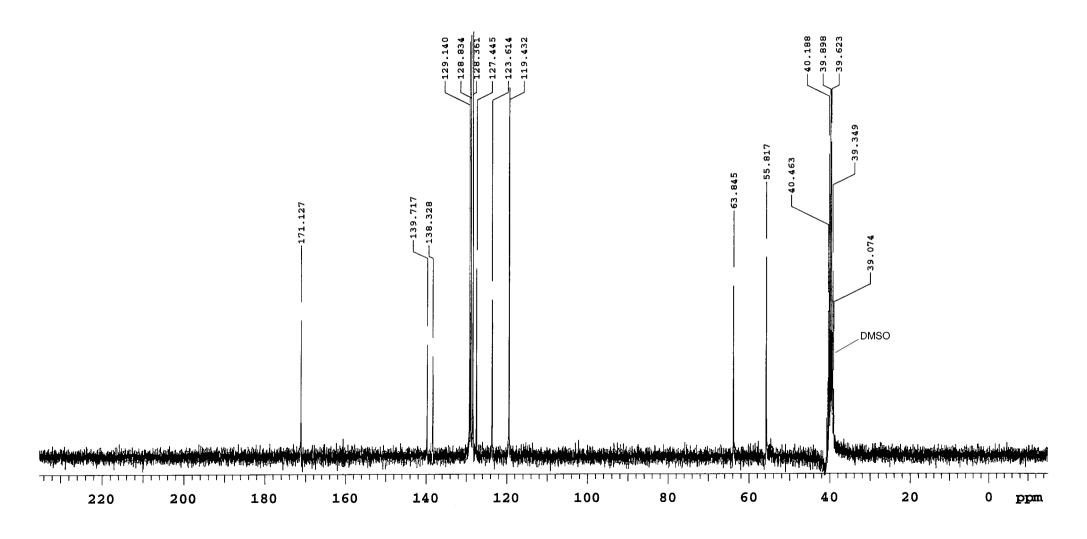


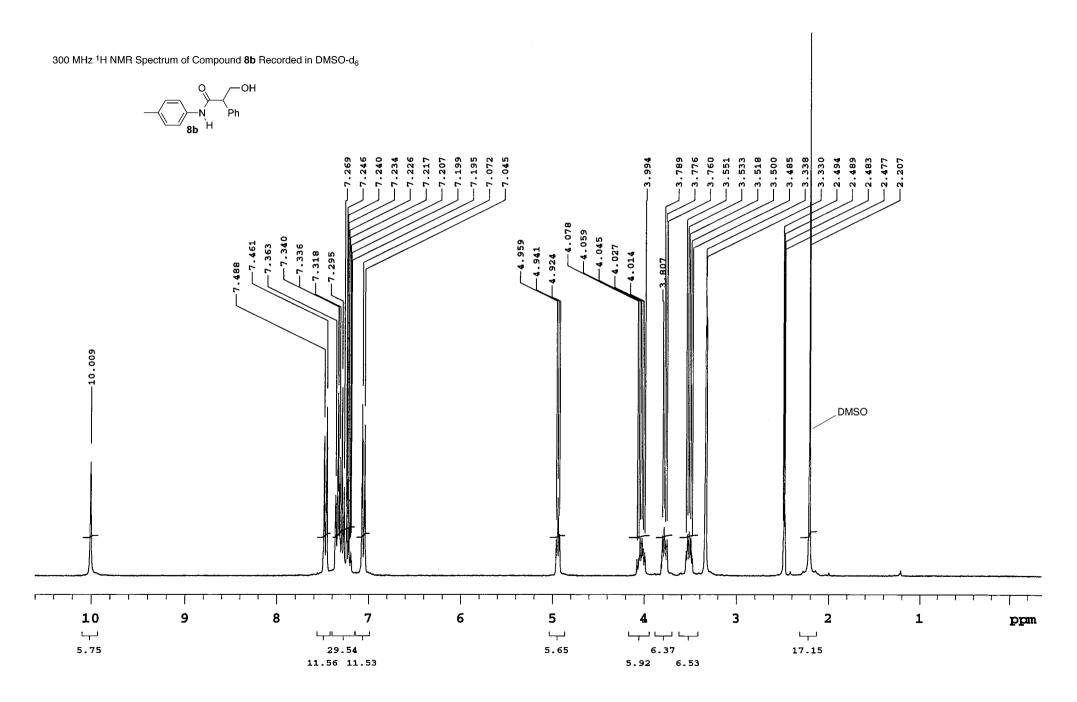


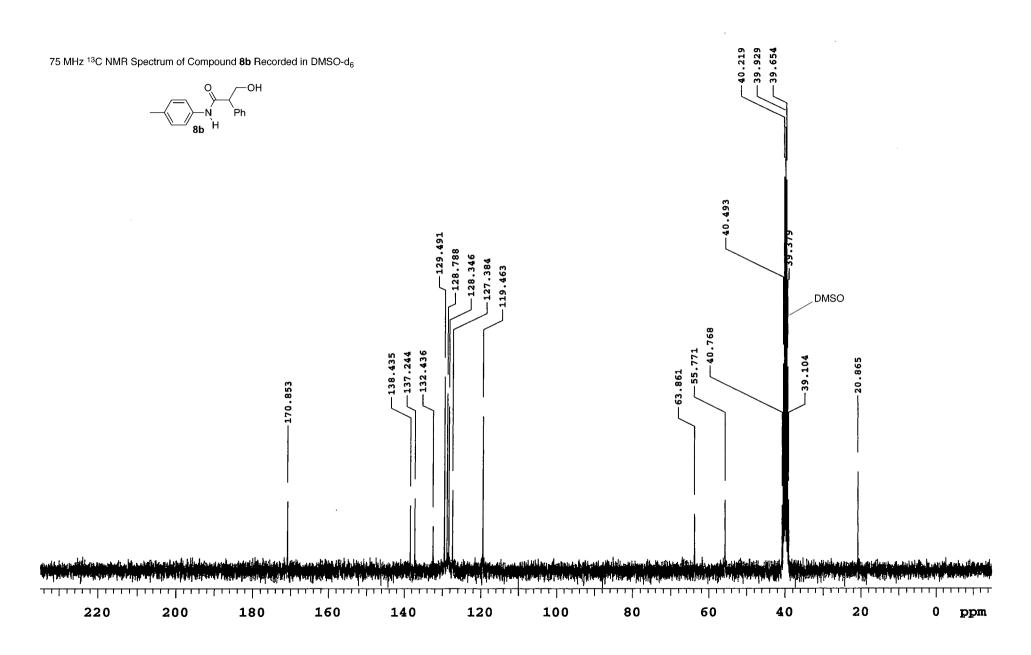


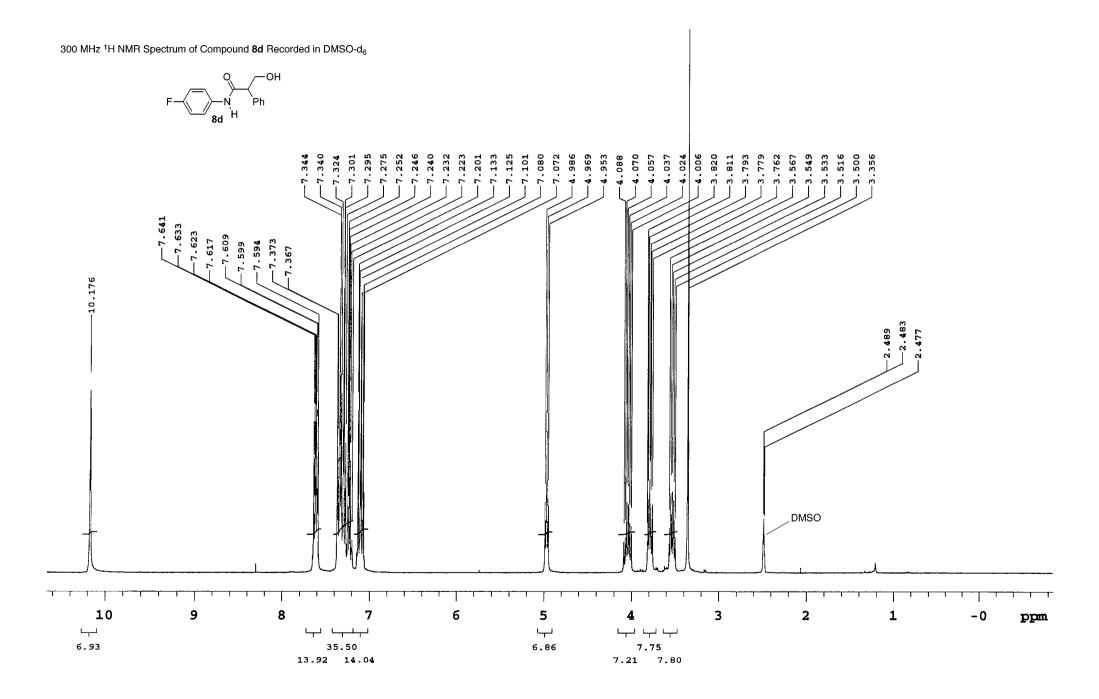


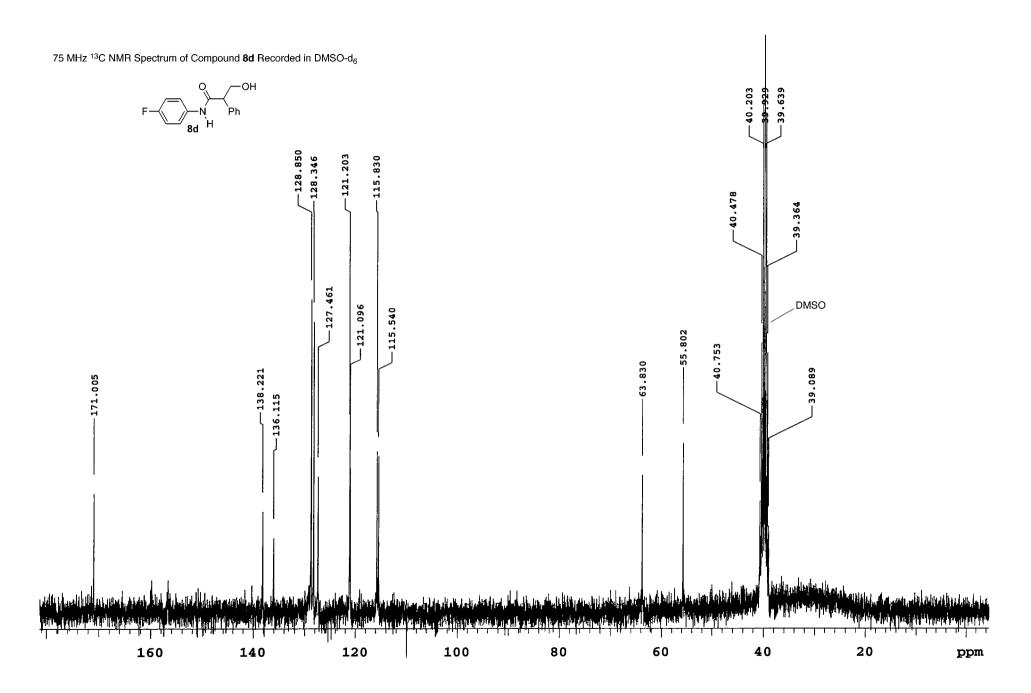
75 MHz <sup>13</sup>C NMR Spectrum of Compound 8a Recorded in DMSO-d<sub>6</sub>

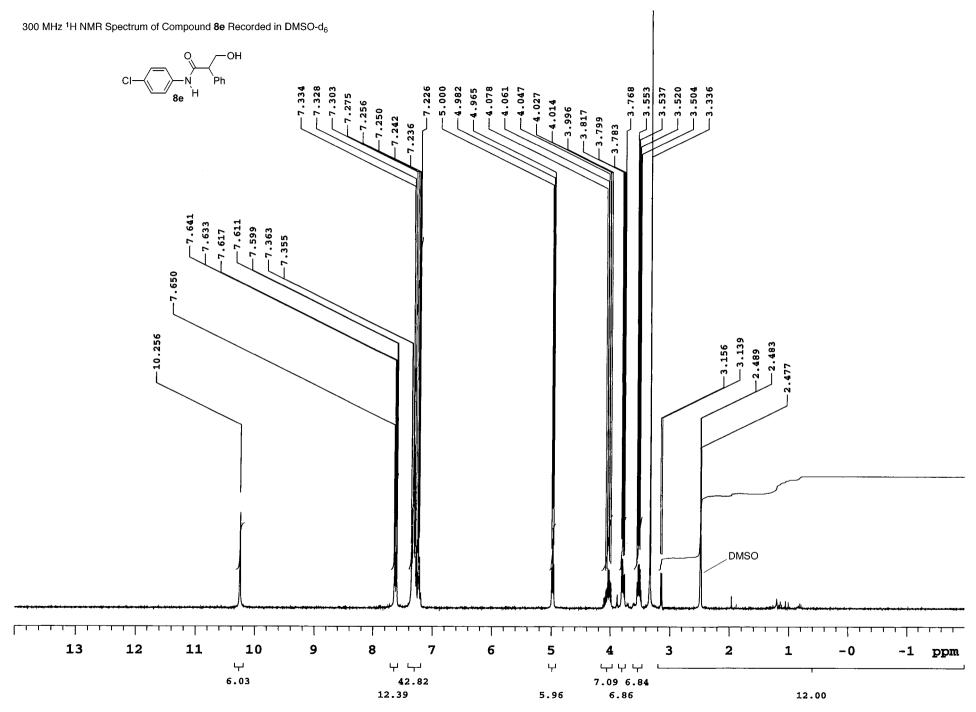




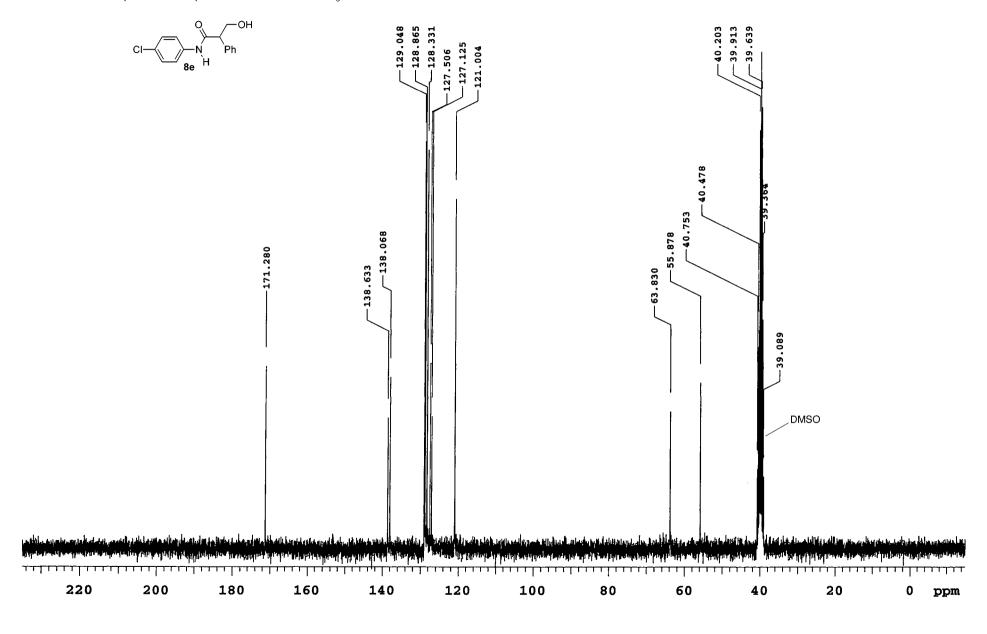


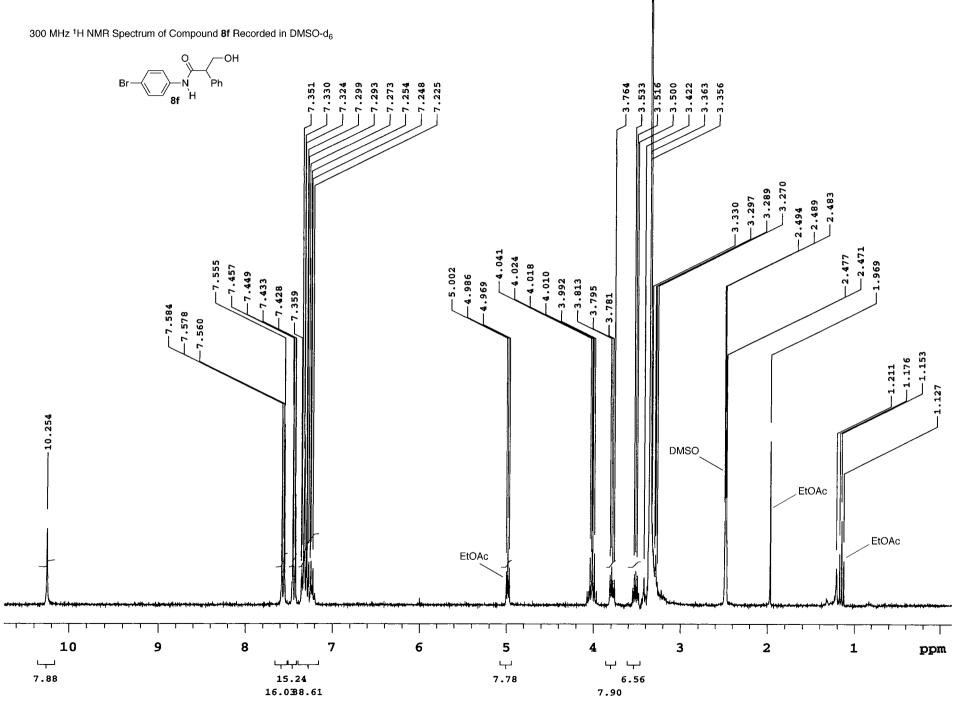


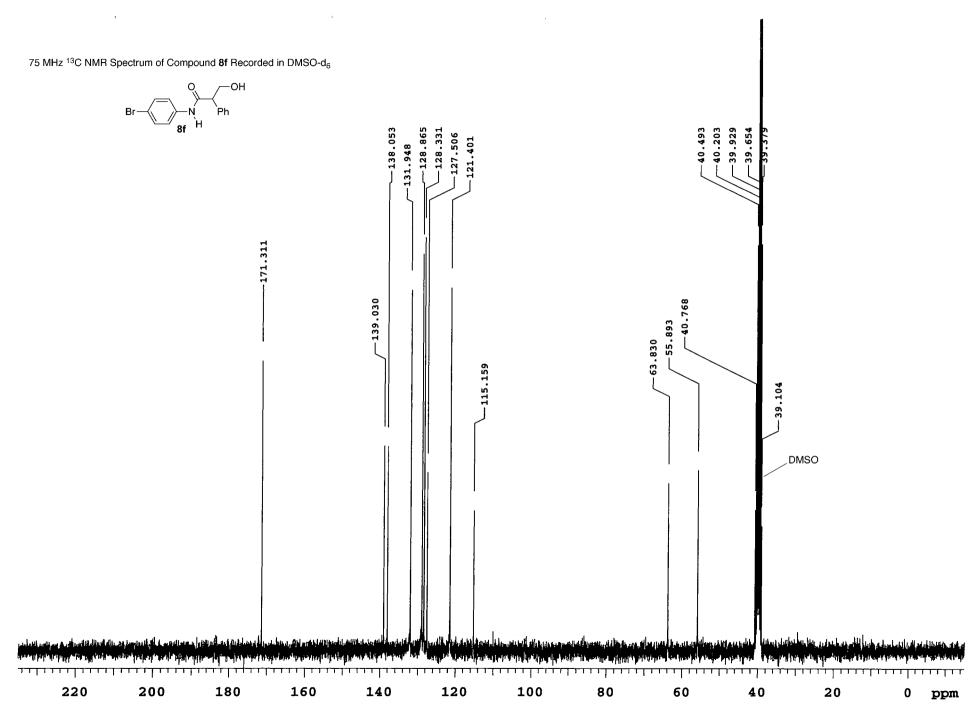


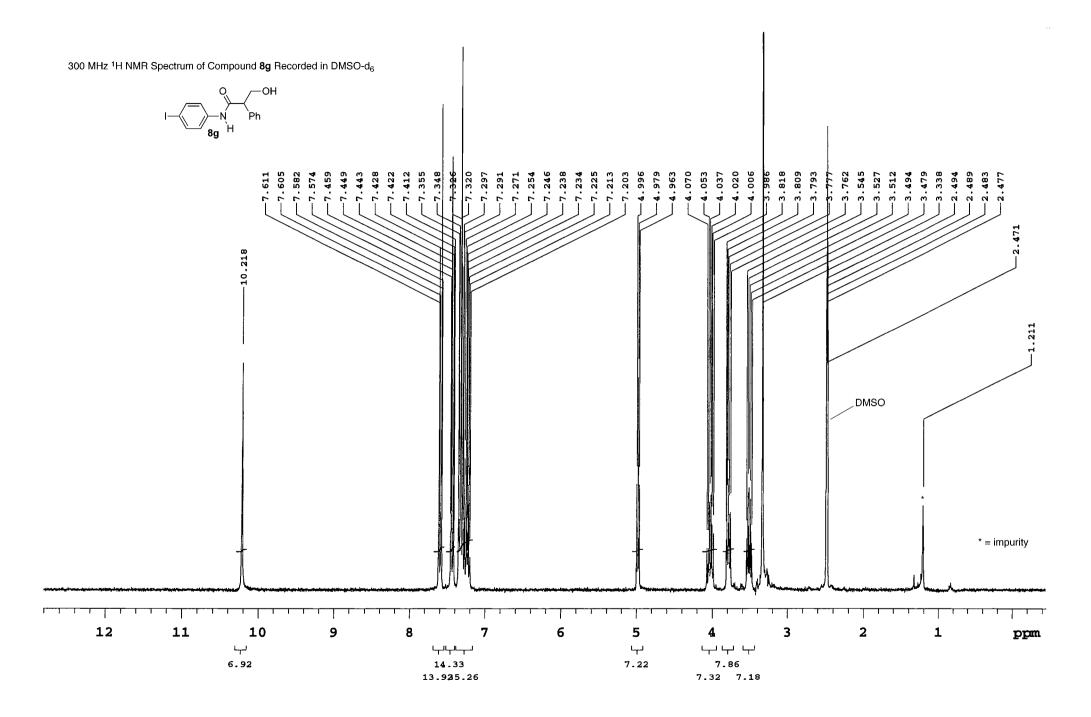


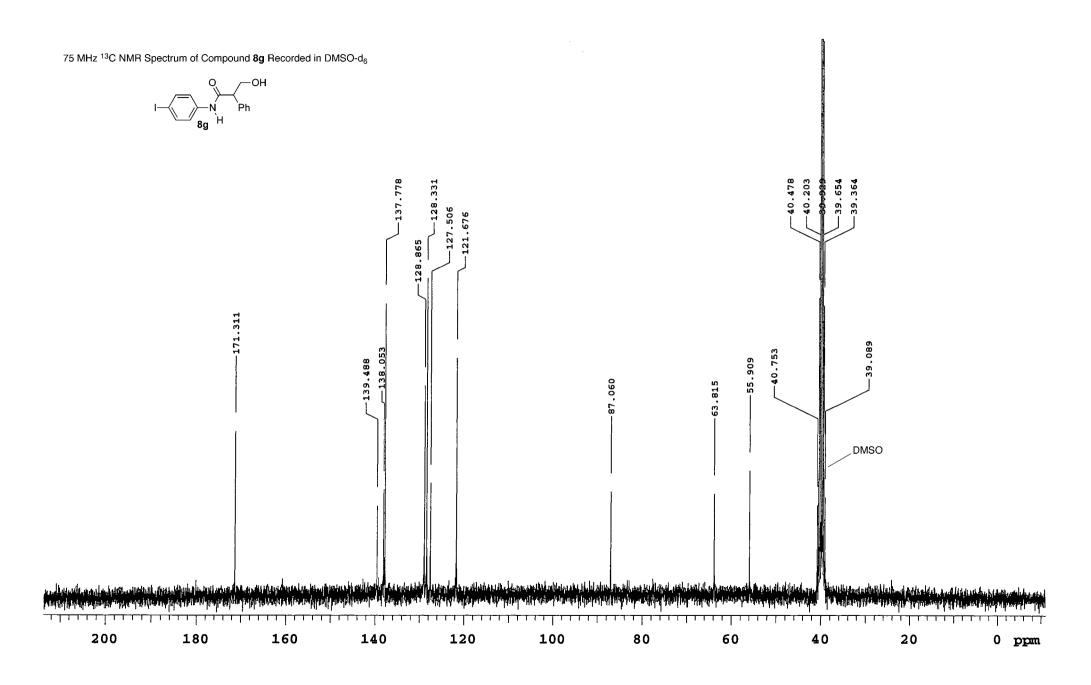
75 MHz <sup>13</sup>C NMR Spectrum of Compound **8e** Recorded in DMSO-d<sub>6</sub>

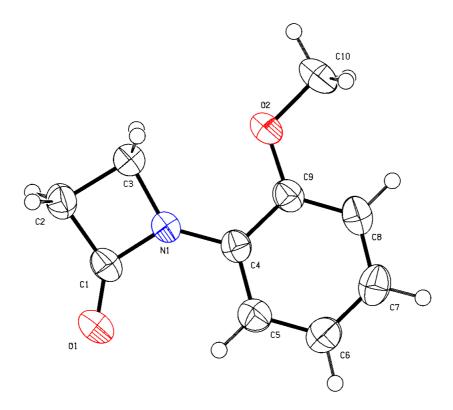




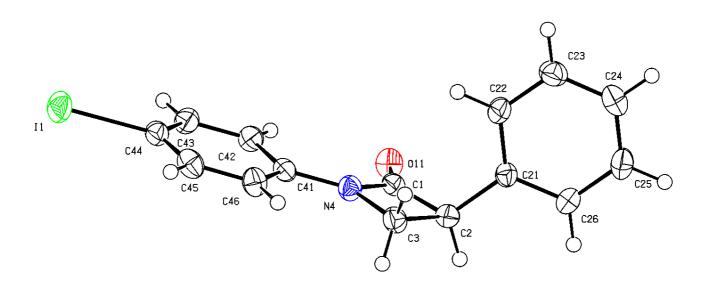




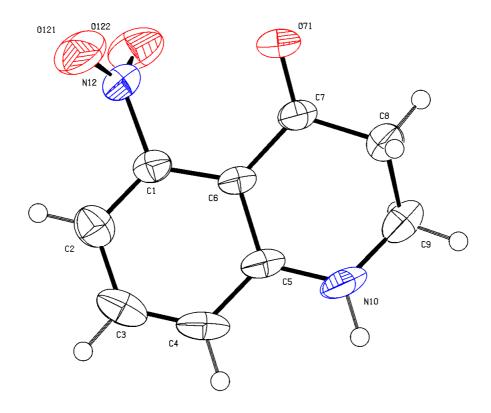




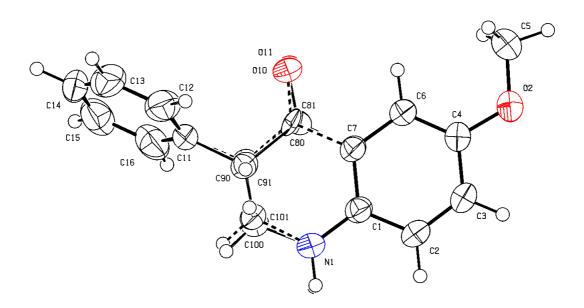
**Figure S1.** Compound **1j** (CCDC 801993) with displacement ellipsoids drawn at the 50% probability level. H atoms are shown as spheres of arbitrary radius.



**Figure S2.** Compound **1u** (CCDC 801994) with displacement ellipsoids drawn at the 50% probability level. H atoms are shown as spheres of arbitrary radius.



**Figure S3.** Compound **2n(b)** (CCDC 801995) with displacement ellipsoids drawn at the 50% probability level. H atoms are shown as spheres of arbitrary radius.



**Figure S4.** Compound **2q** (CCDC 801996) with displacement ellipsoids drawn at the 50% probability level. H atoms are shown as spheres of arbitrary radius.