

Supporting Information
for
Synthesis of a tricyclic lactam via Beckmann rearrangement
and ring-rearrangement metathesis as key steps

Sambasivarao Kotha*, Ongolu Ravikumar and Jadab Majhi

Address: Department of Chemistry, Indian Institute of Technology-Bombay, Powai, India,

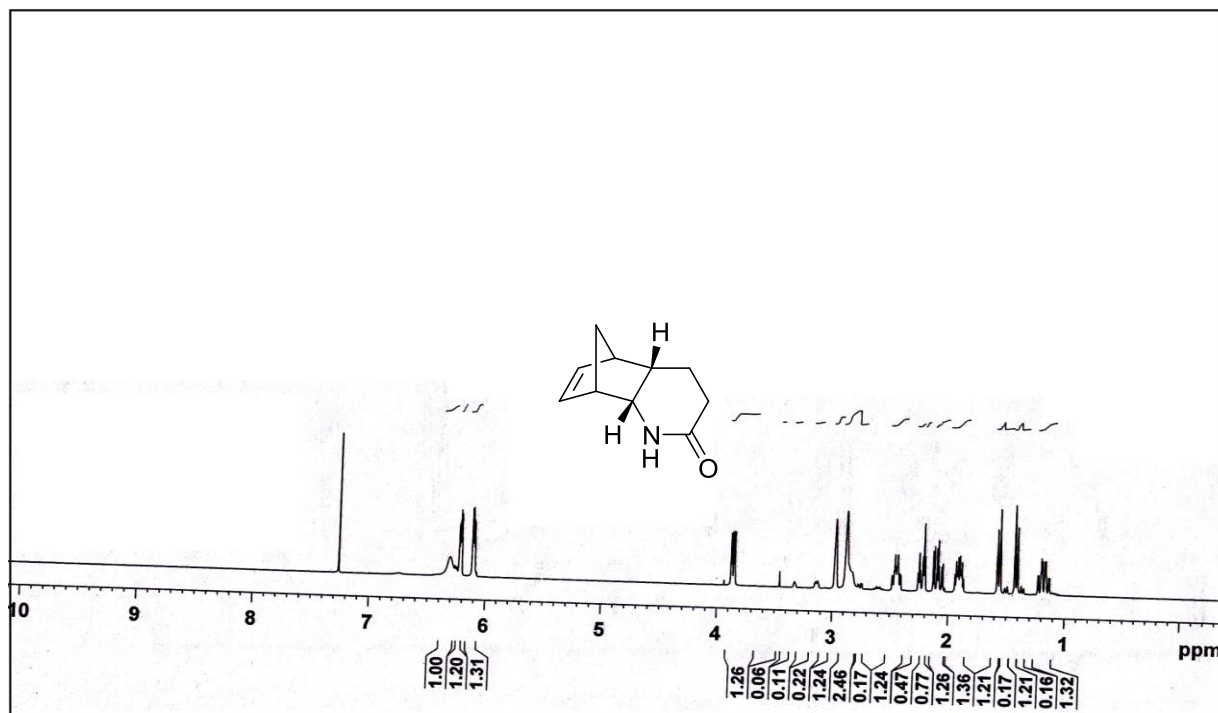
Fax: 022-25767152

Email: Sambasivarao Kotha - srk@chem.iitb.ac.in

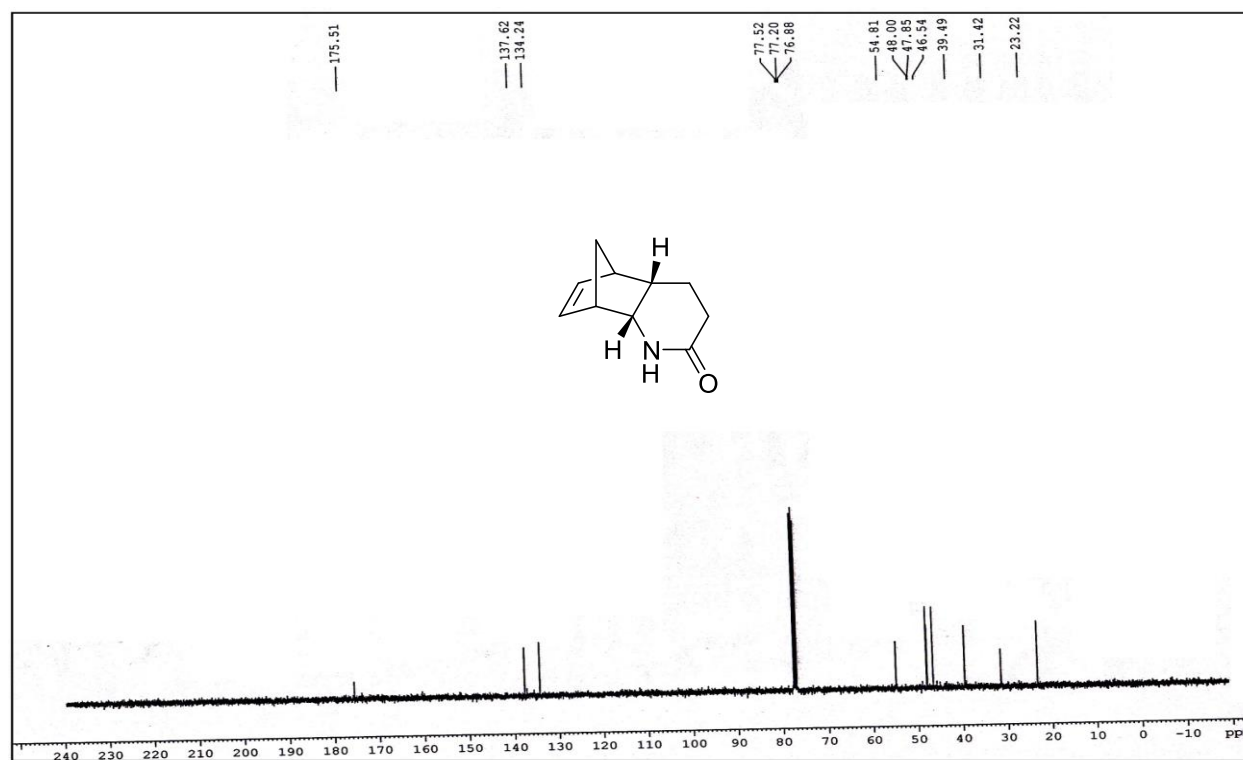
*Corresponding author

NMR spectra of synthesized compounds and X-ray data of compound 11b

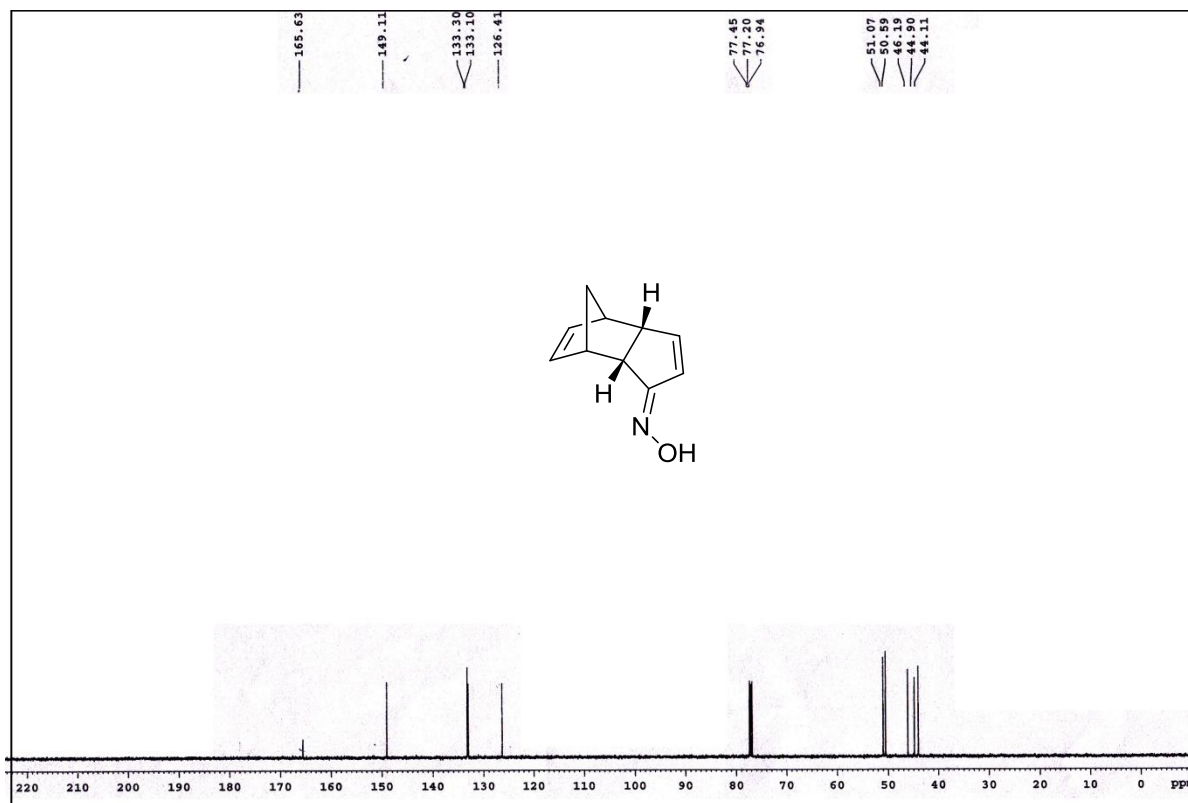
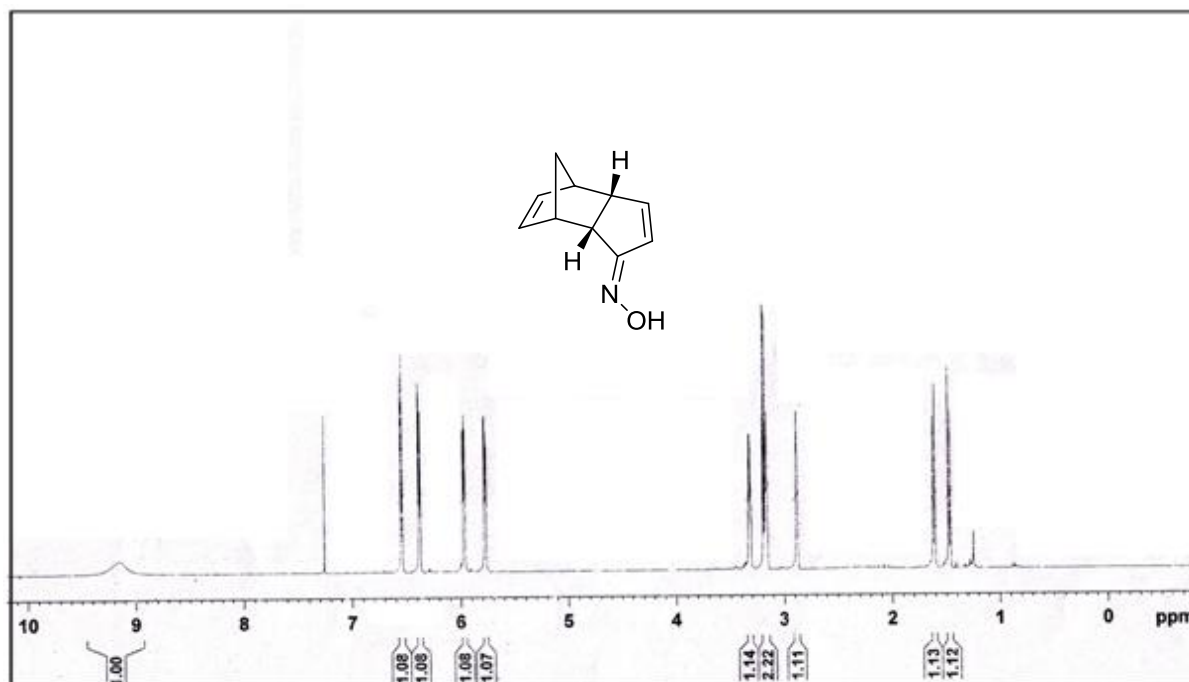
Compound 9a ^1H and ^{13}C NMR



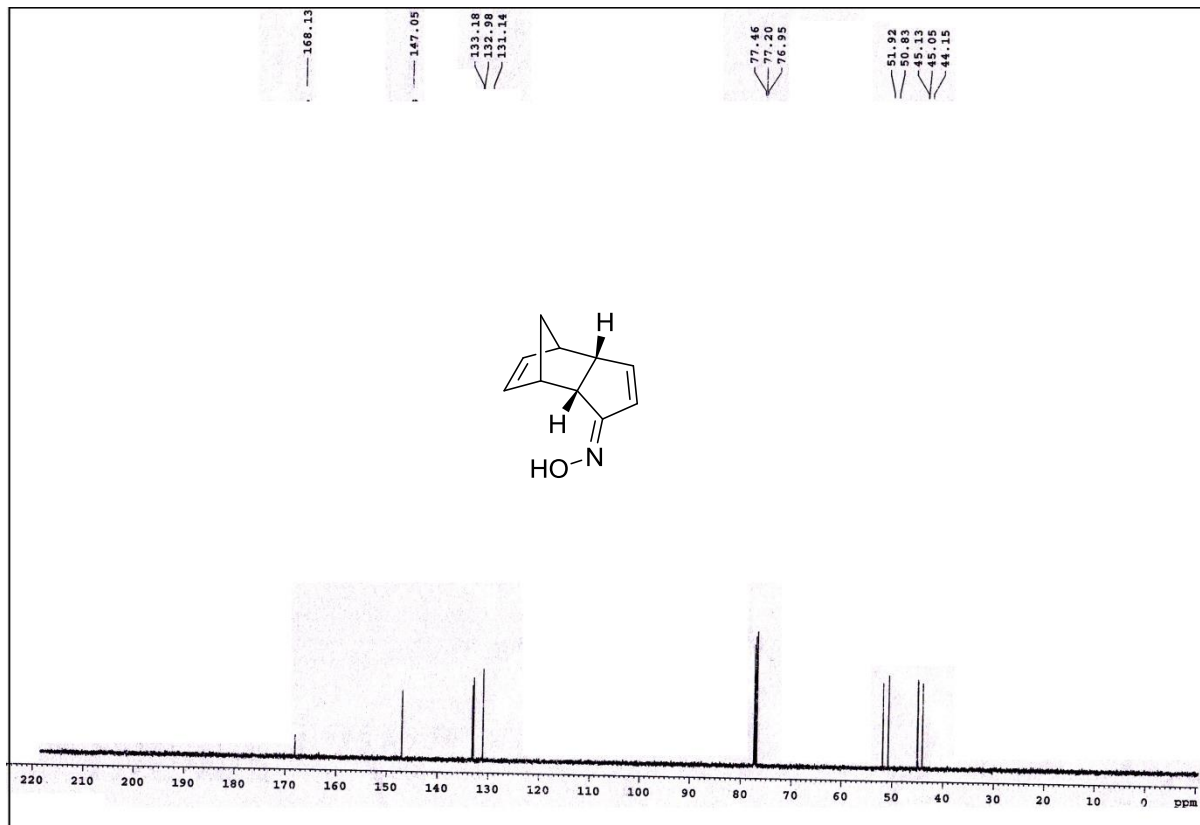
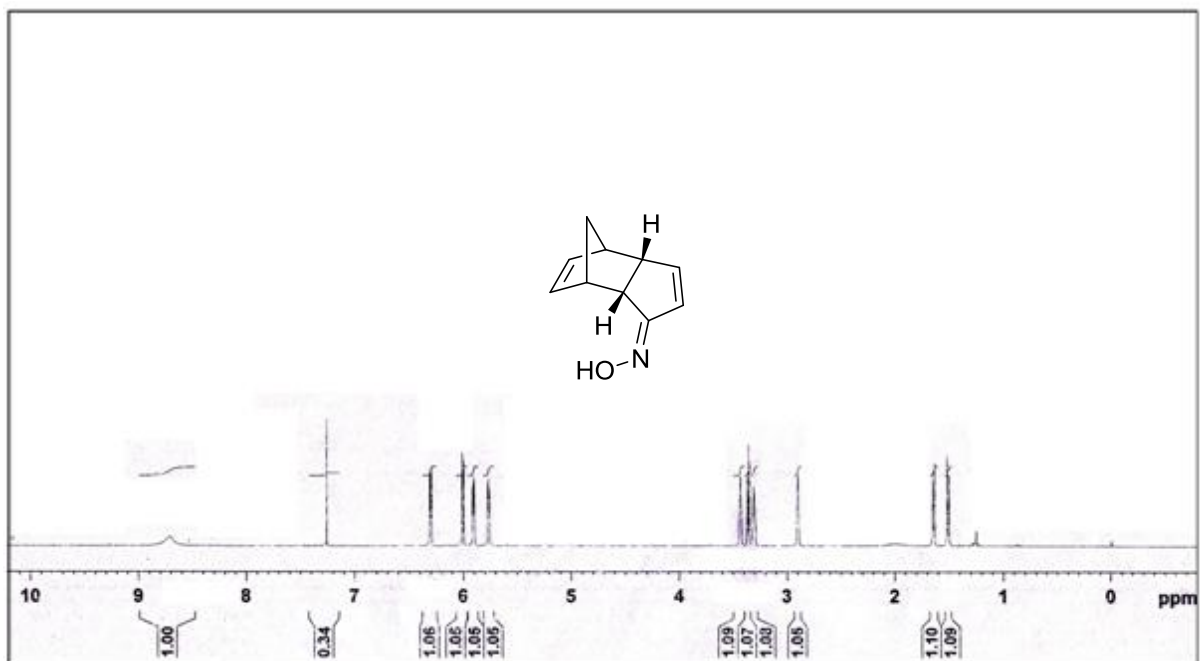
Compound 11a ^1H and ^{13}C NMR



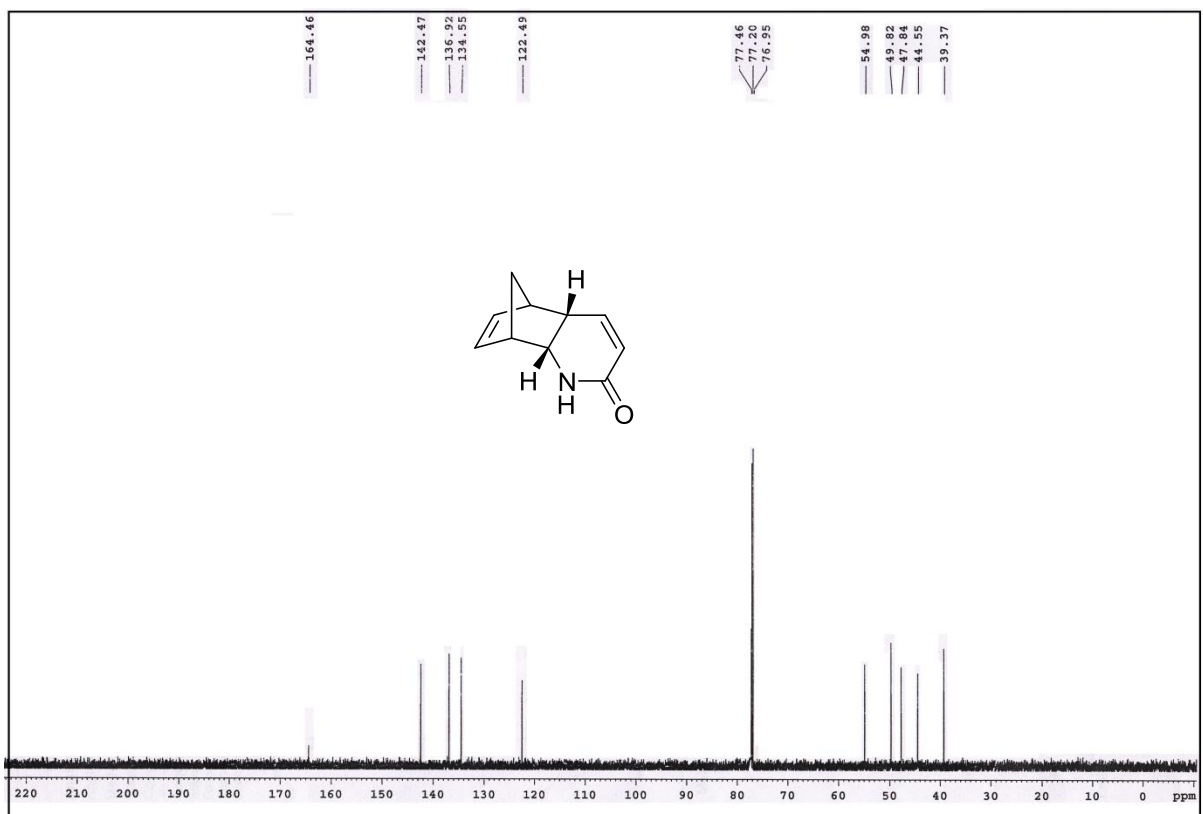
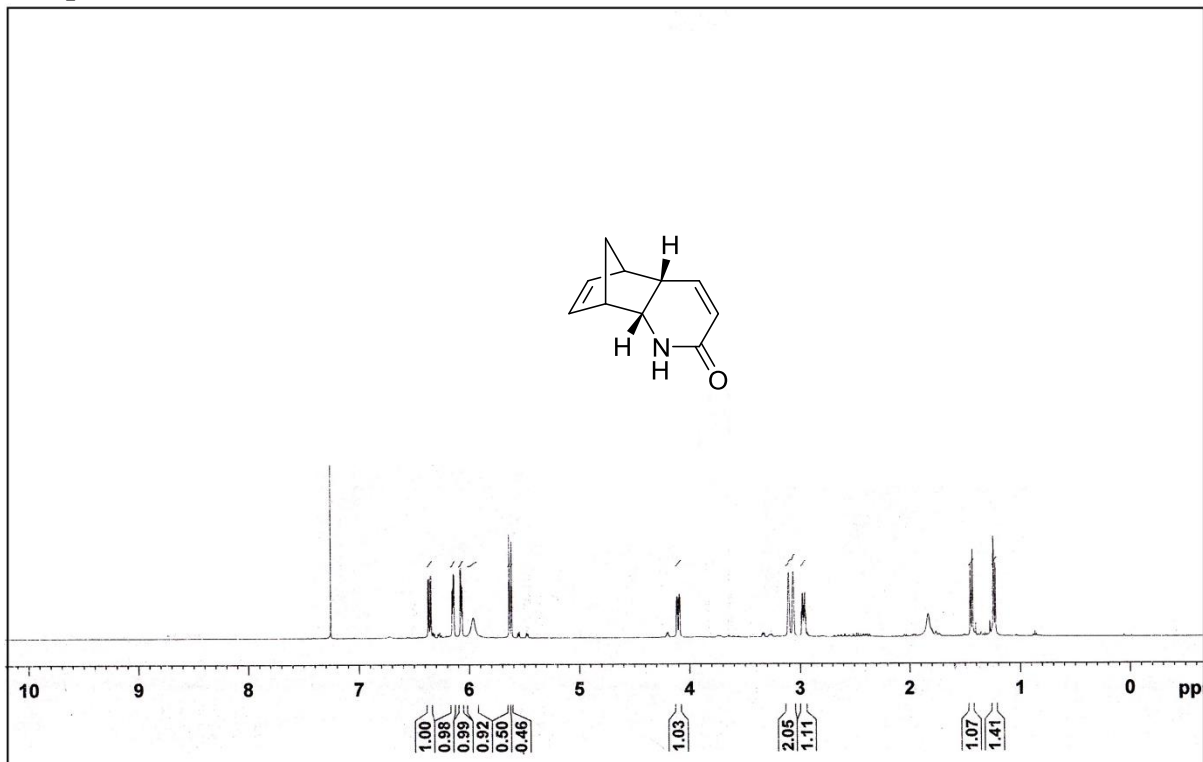
Compound 11a ^1H and ^{13}C NMR



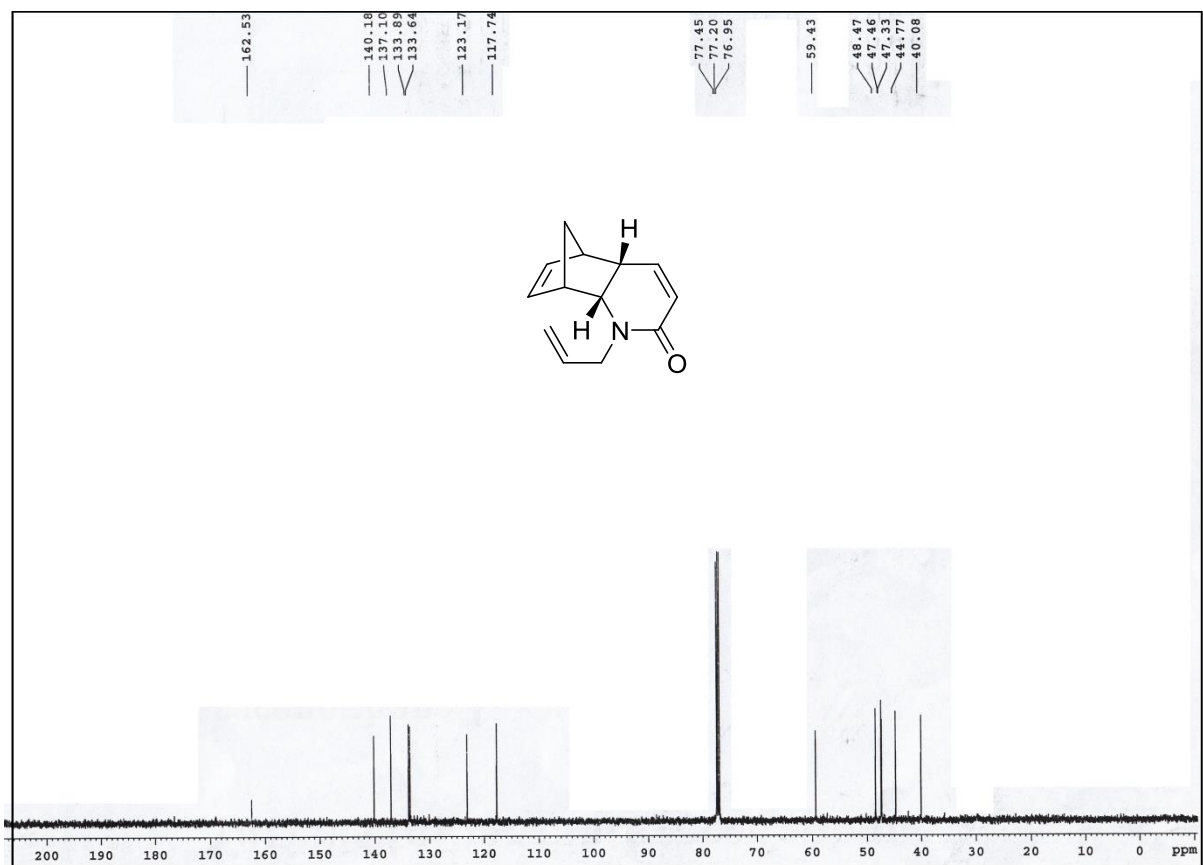
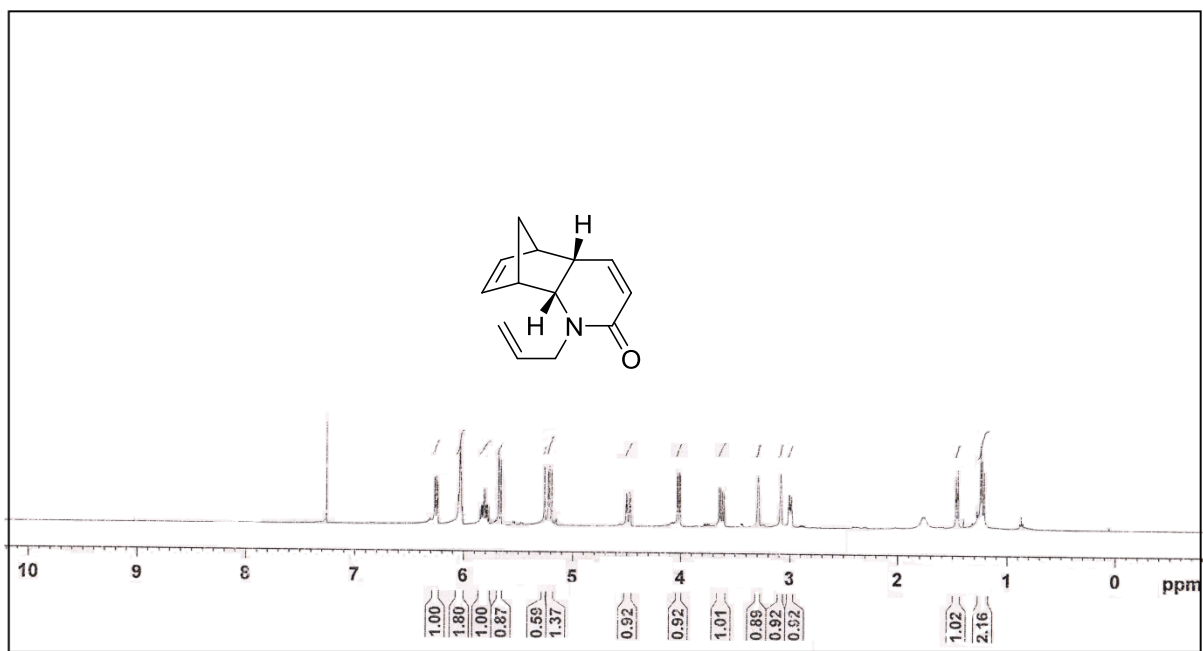
Compound 11b ^1H and ^{13}C NMR



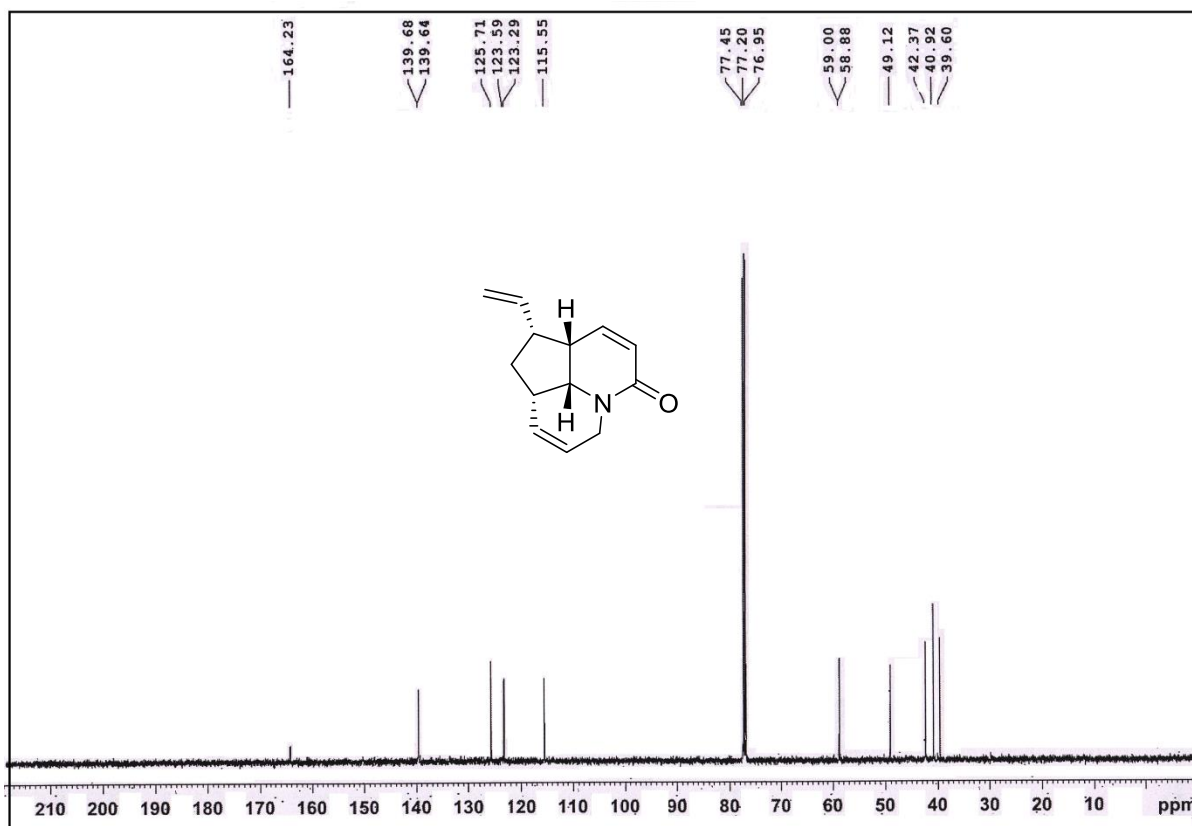
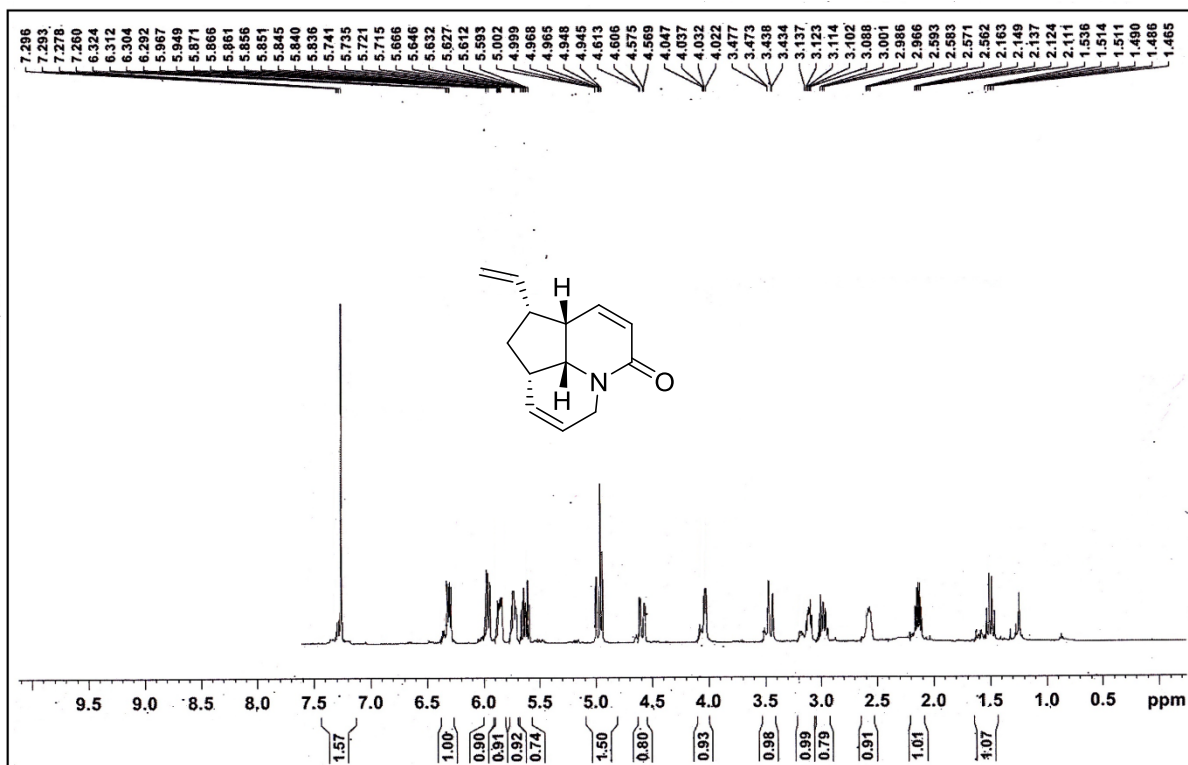
Compound 12 ^1H and ^{13}C NMR



Compound 2 ^1H and ^{13}C NMR



Compound 1 ¹H and ¹³C NMR



X-ray crystallographic data and refinement parameters for compound 11b (CCDC 1403298)

Bond precision: C-C = 0.0051 Å Wavelength=1.54190
 Cell: a = 6.081(2) b = 21.357(11) c = 19.131(8)
 $\alpha = 90$ $\beta = 92.969(7)$ $\gamma = 90$
 Temperature: 100 K

	Calculated	Reported
Volume	2481.2 (18)	2481.2 (19)
Space group	P 21/c	P 1 21/c 1
Hall group	-P 2ybc	-P 2ybc
Moiety formula	C ₁₀ H ₁₁ NO	C ₁₀ H ₁₁ NO
Sum formula	C ₁₀ H ₁₁ NO	C ₁₀ H ₁₁ NO
Mr	161.20	161.20
D _x , g cm ⁻³	1.295	1.294
Z	12	12
Mu (mm ⁻¹)	0.669	0.670
F000	1032.0	1032.0
F000'	1034.96	
h, k, lmax	7, 25, 23	7, 25, 23
Nref	4573	4514
Tmin, Tmax	0.892, 0.898	0.858, 0.898
Tmin'	0.892	

Correction method = Not given

Data completeness = 0.987 Theta (max) = 68.570
 R(reflections) = 0.0798(3563) wR2(reflections) = 0.2954(4514)
 S = 2.10 Npar = 325