

Supporting Materials to

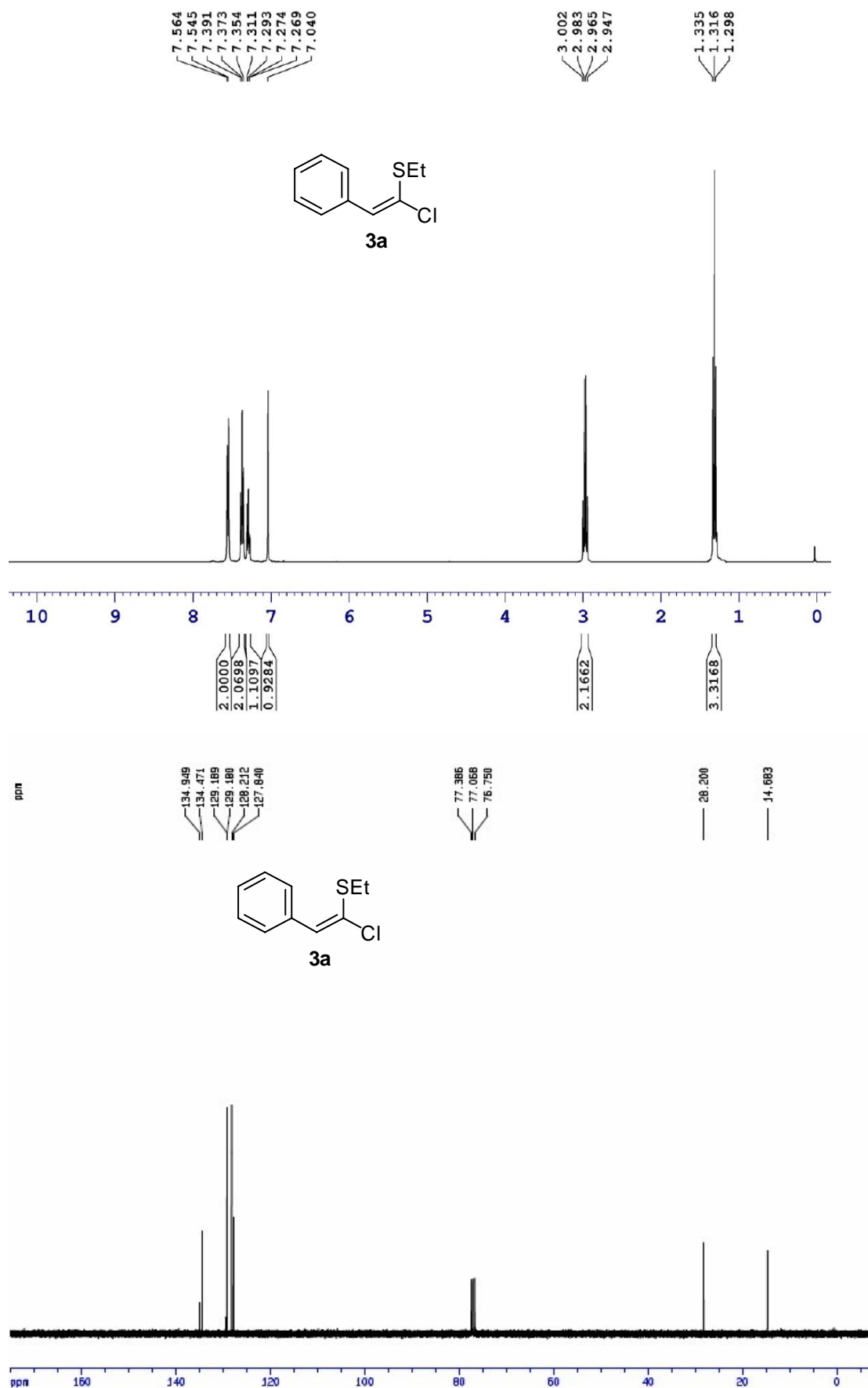
An operationally simple approach to (*E*)- α -halo vinyl sulfides and their
applications for accessing stereodefined trisubstituted alkenes

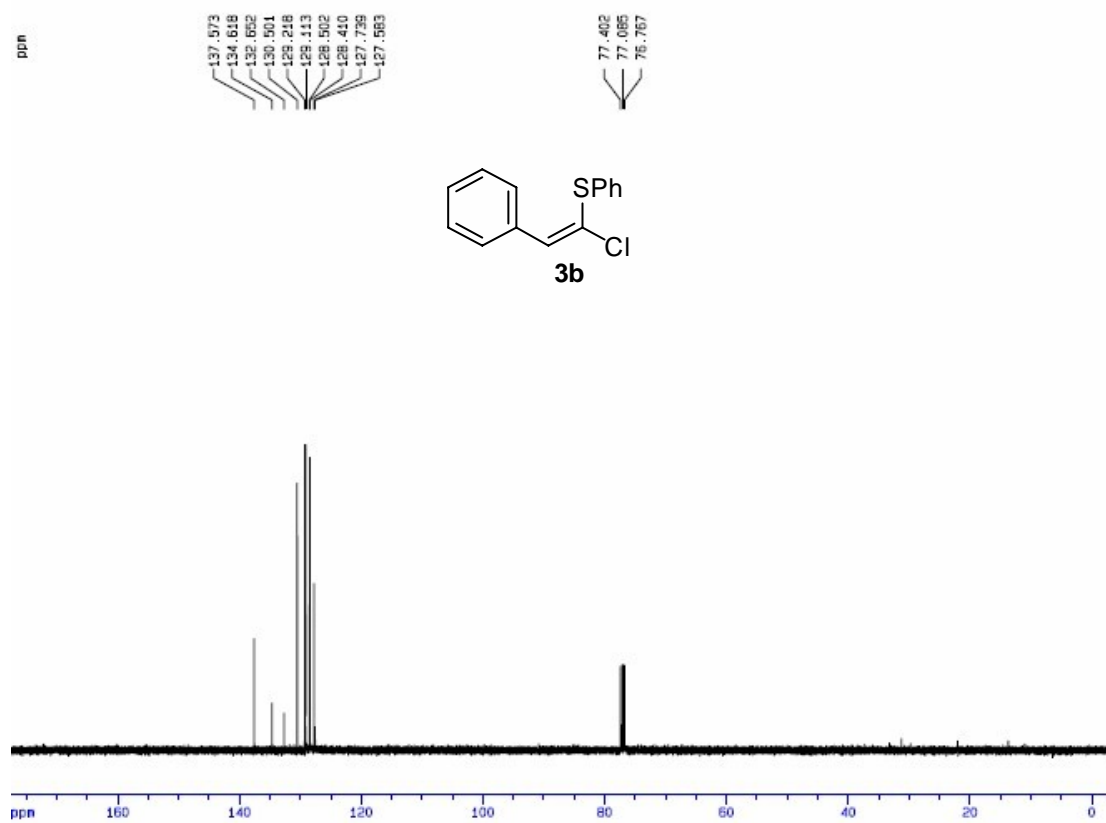
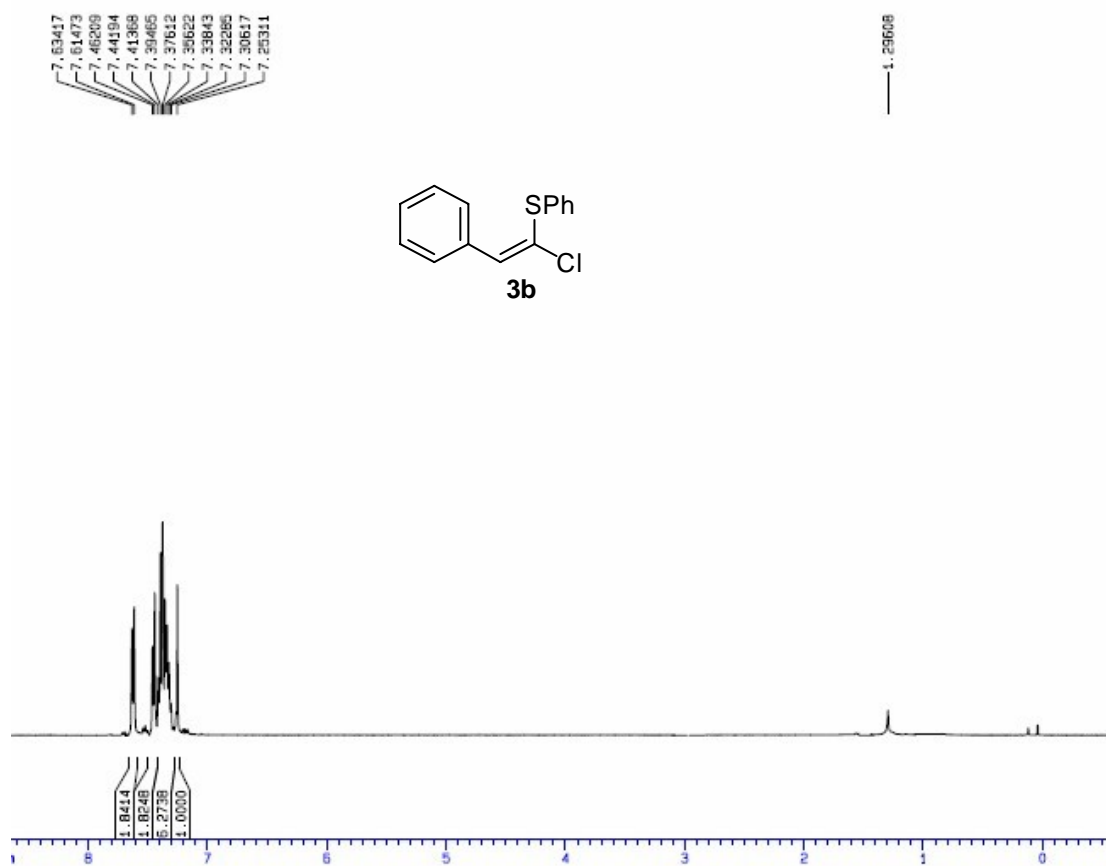
Zhaozhen Yang, Xiaoyi Chen, Wei Kong, Siyuan Xia, Renwei Zheng, Fang Luo, and
Ganguo Zhu*

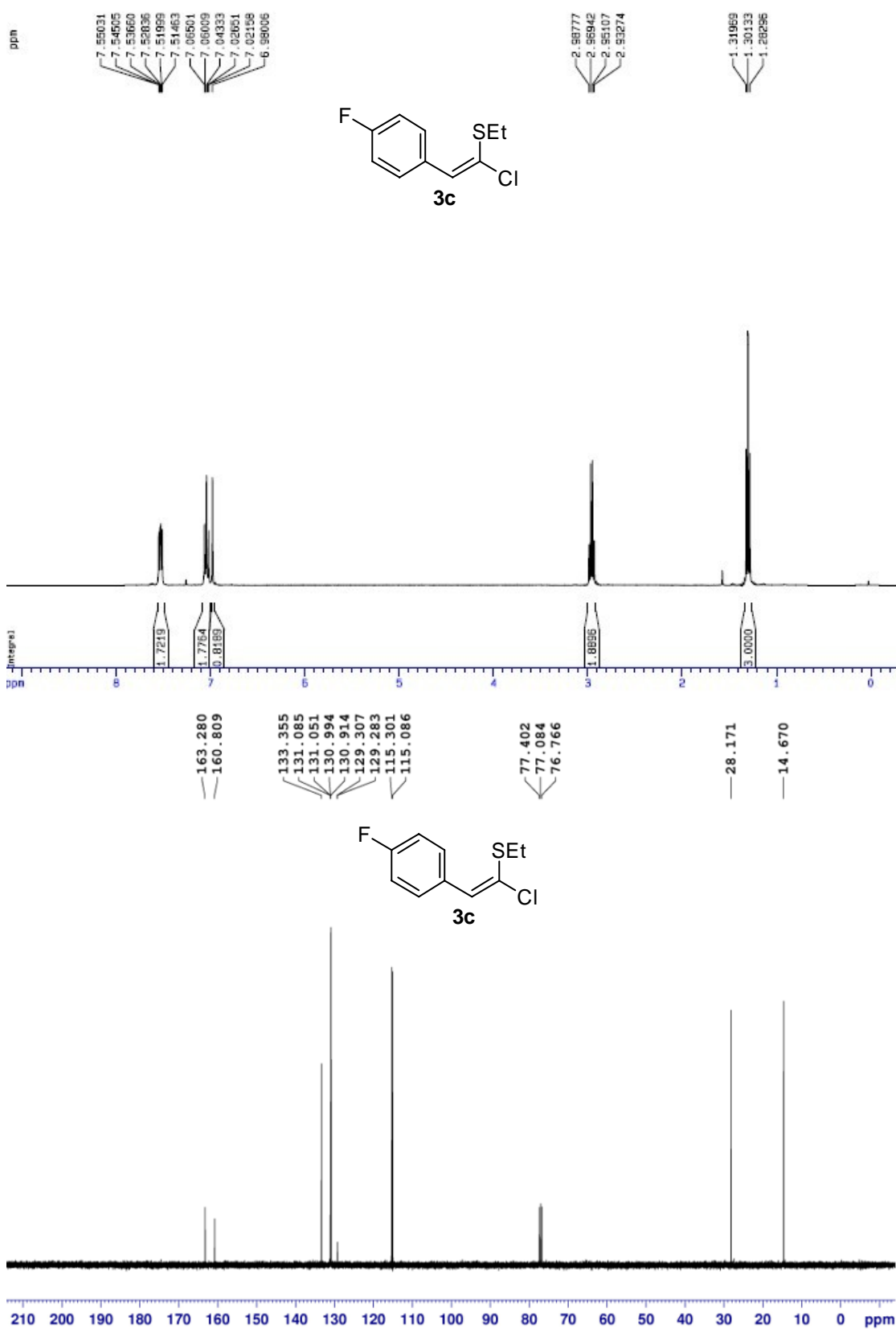
*Department of Chemistry, Zhejiang Normal University, 688 Yingbin Road, Jinhua
321004, PR China*

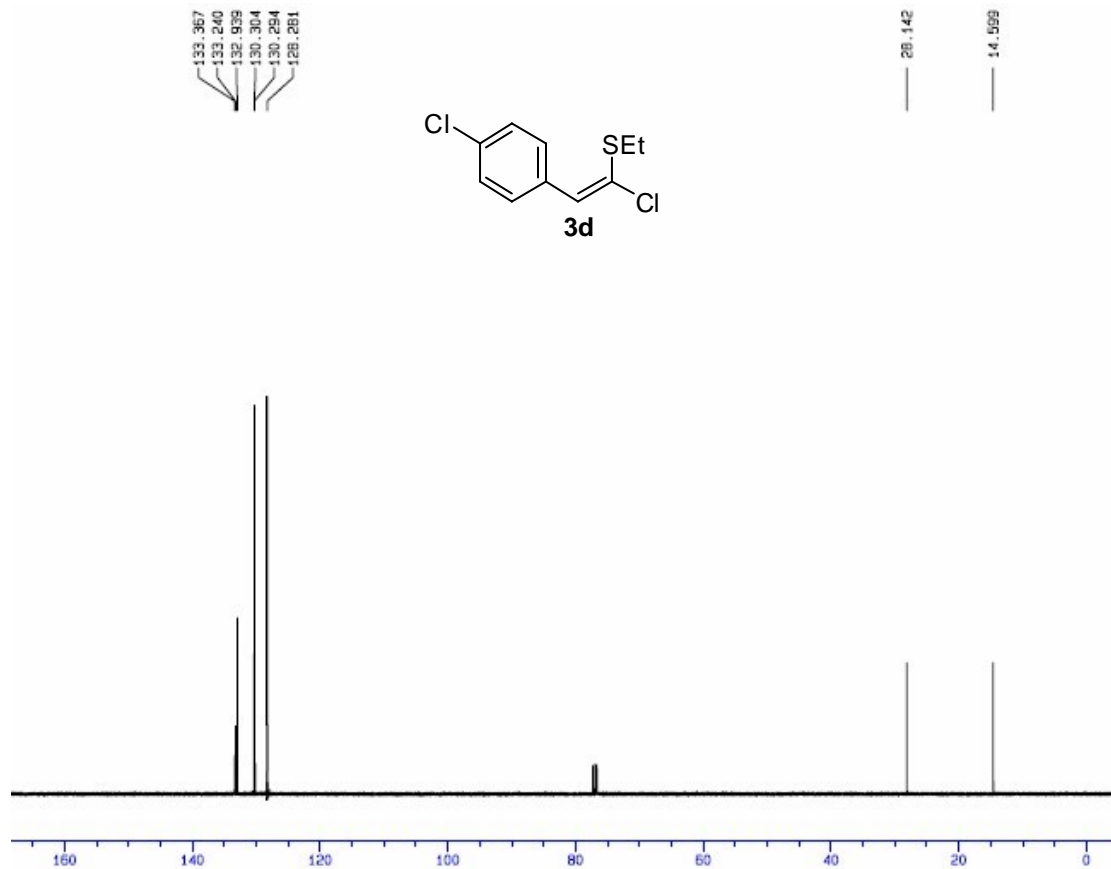
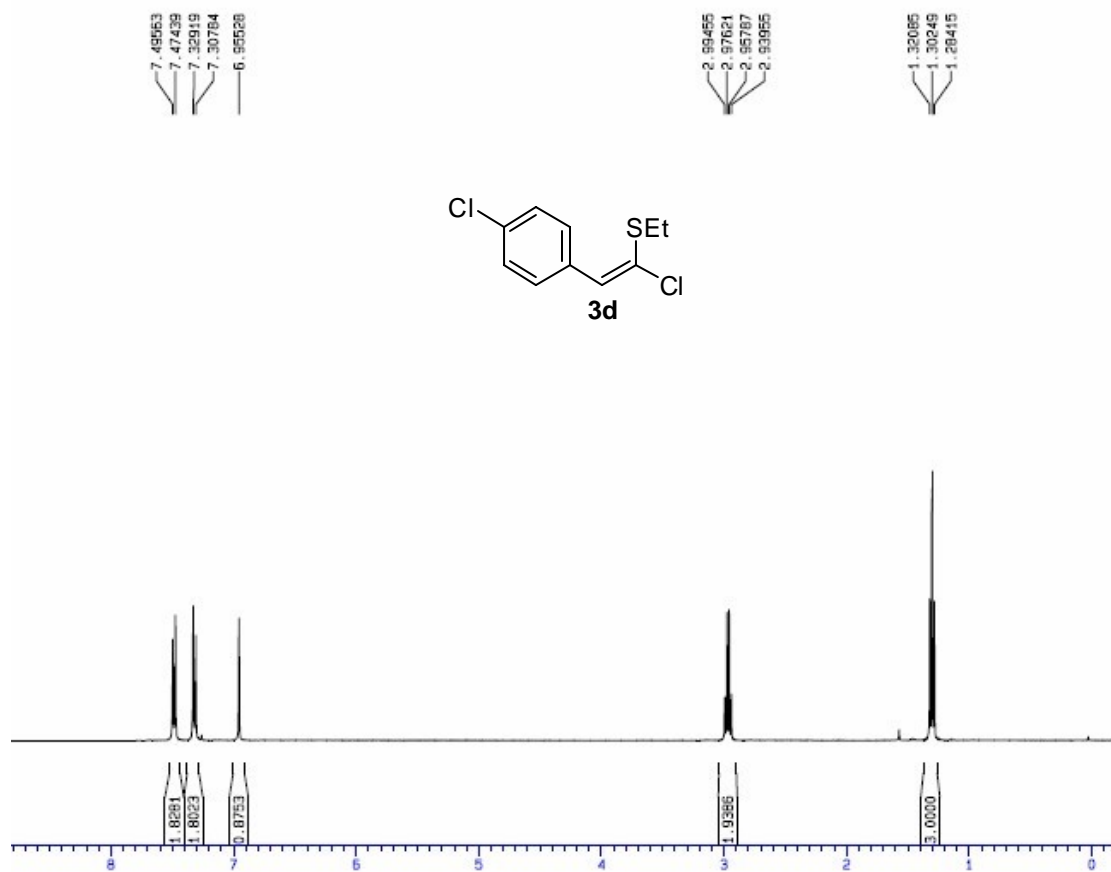
Table of Contents

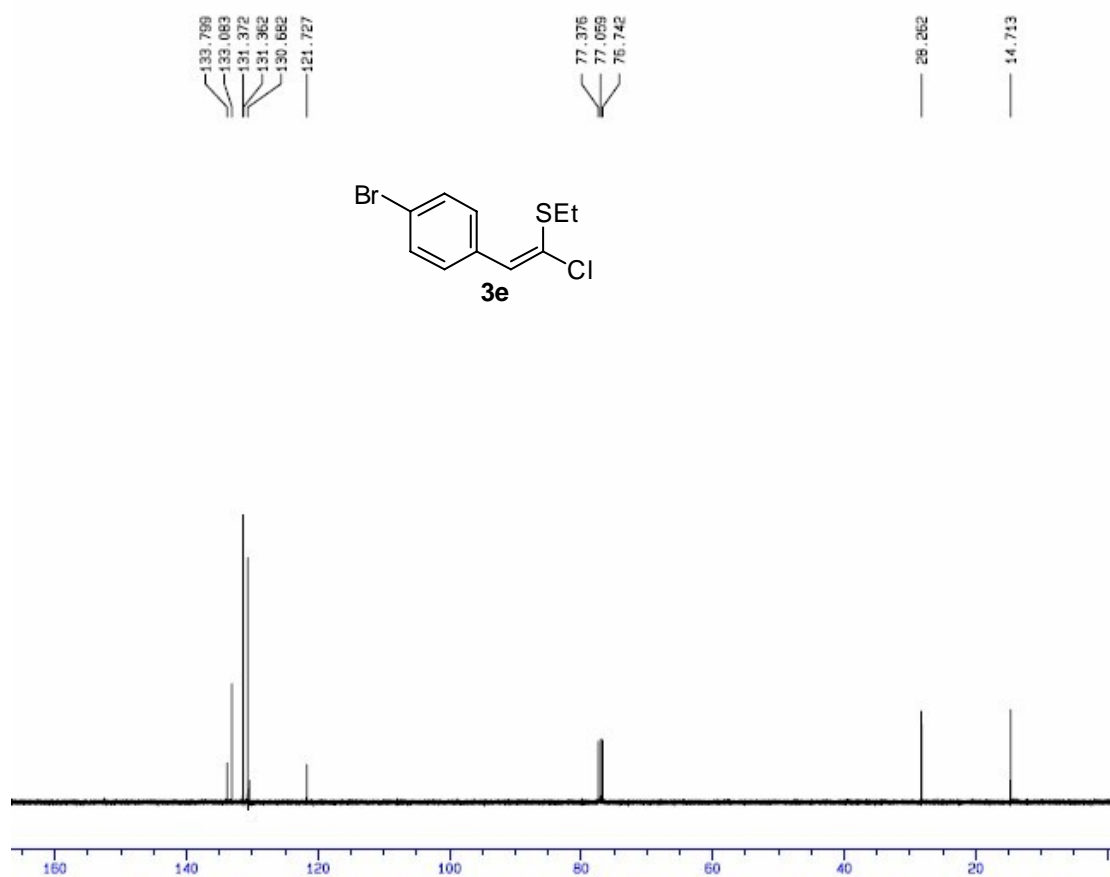
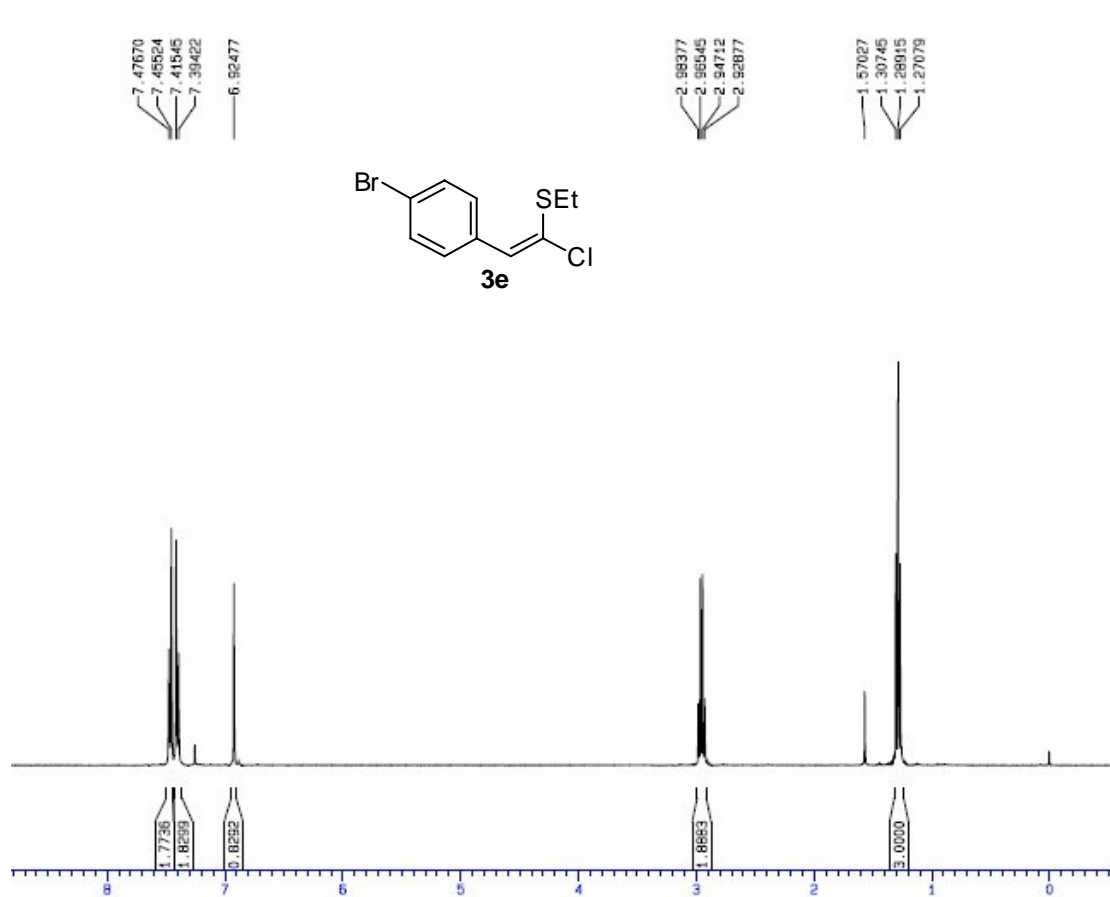
NMR spectra.....	S2-S68
Studies on stereochemistry of 5d , 5l , 5w , 7h and 7n	S69-S71
X-Ray data of 3s	S72-S74

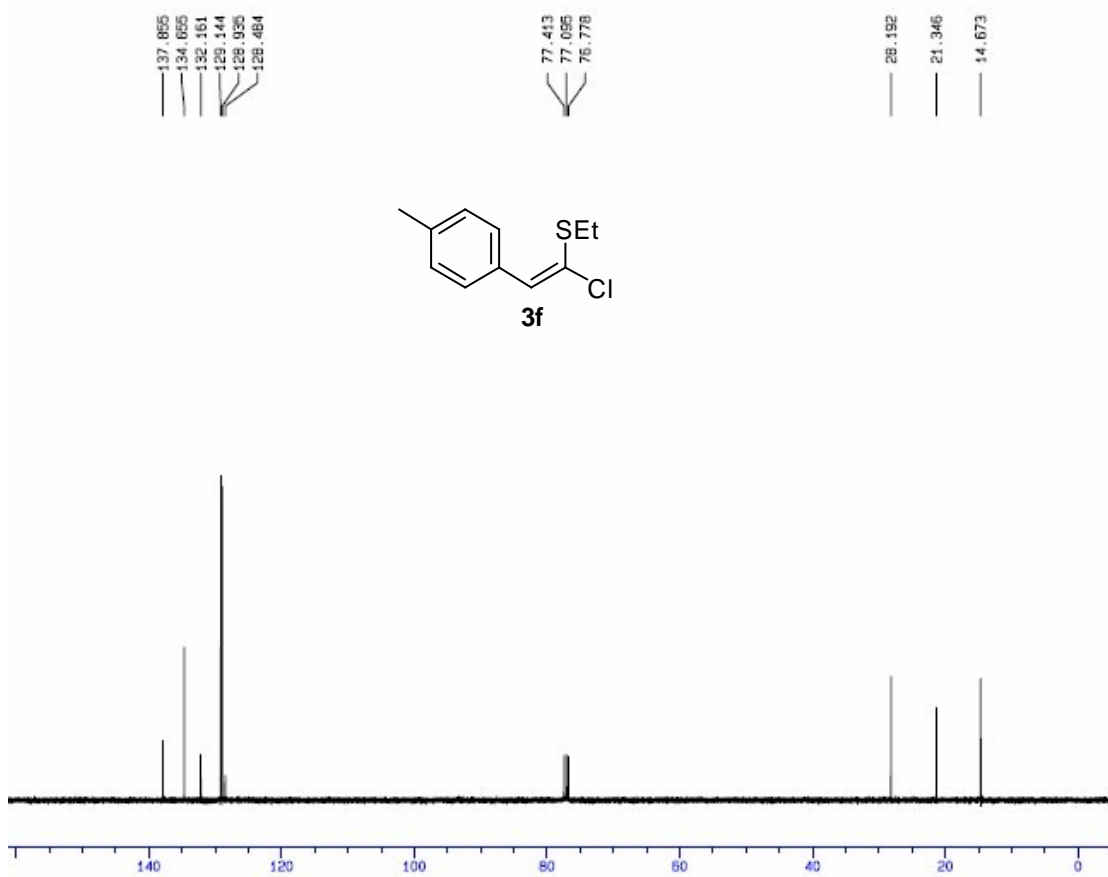
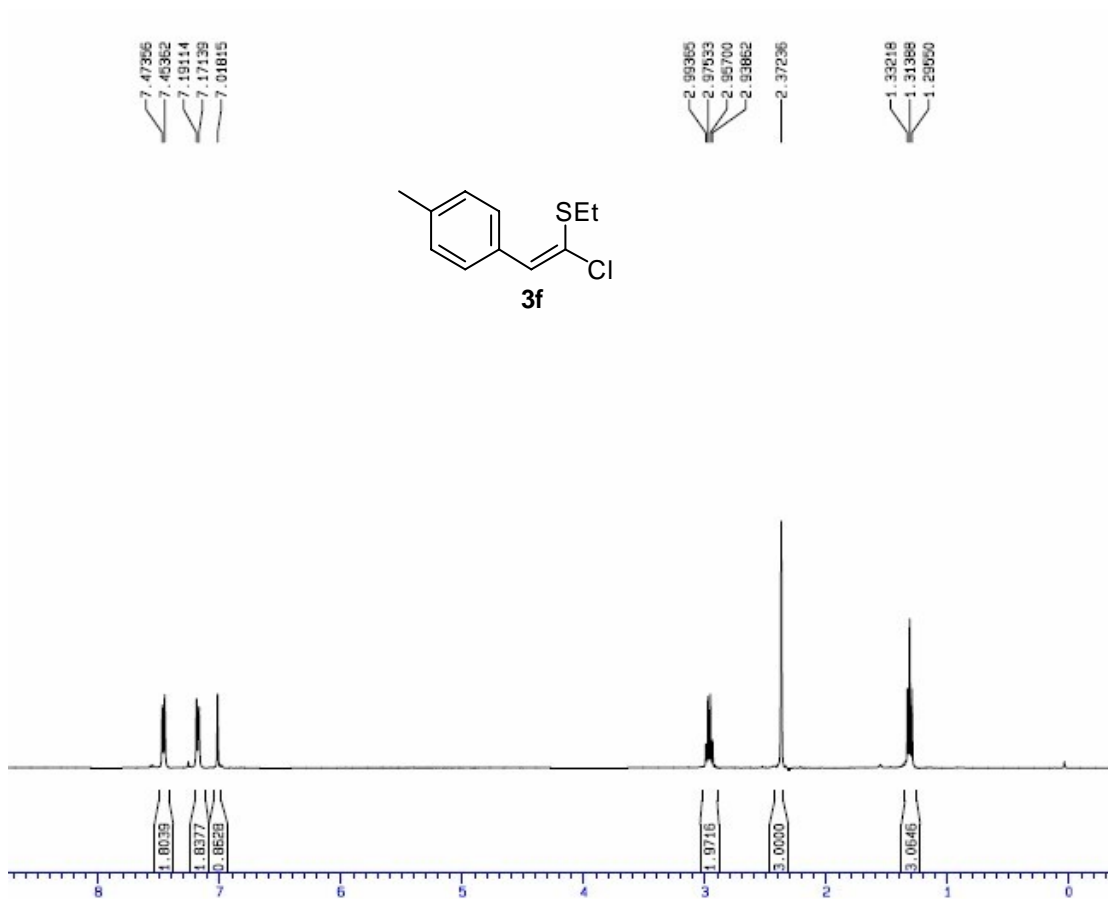


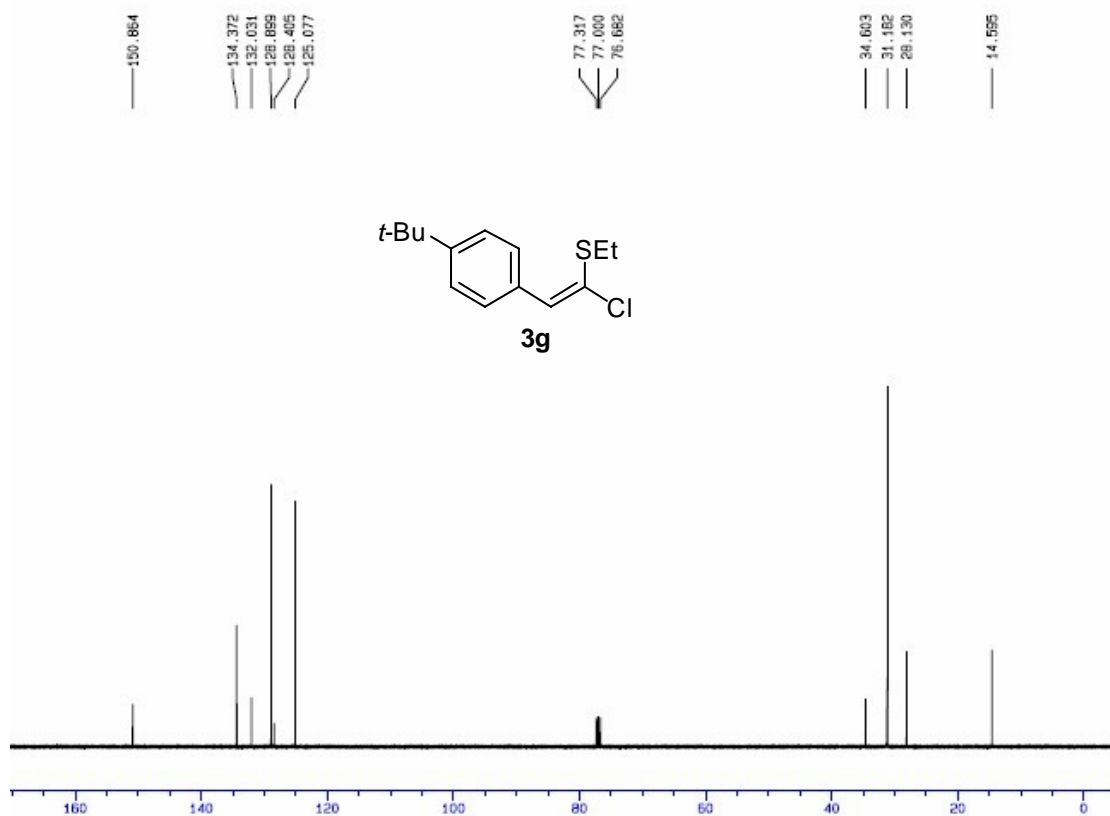
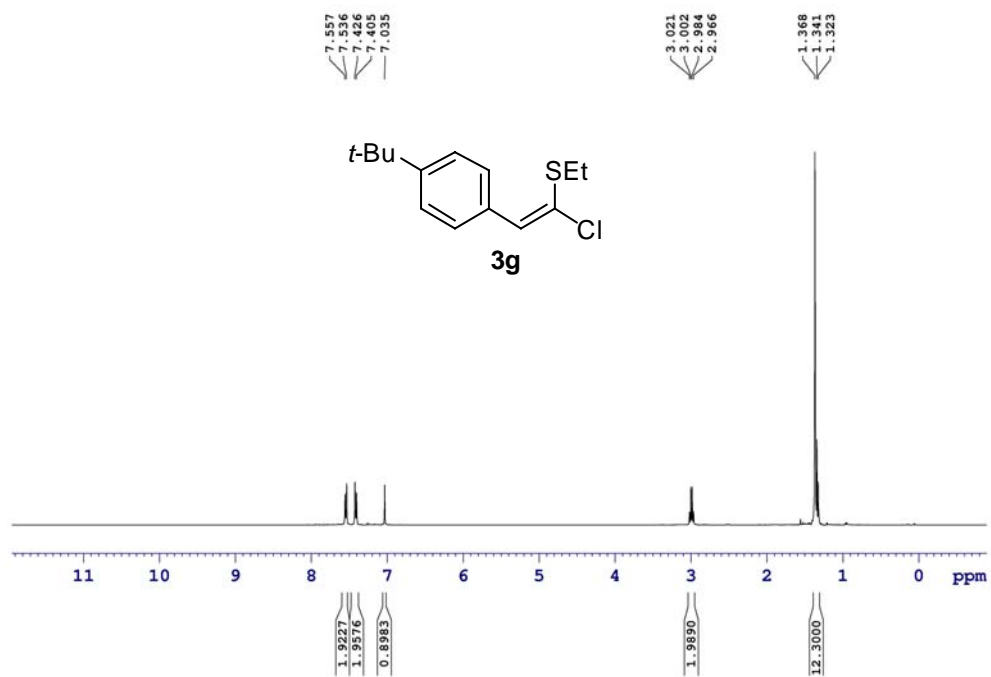


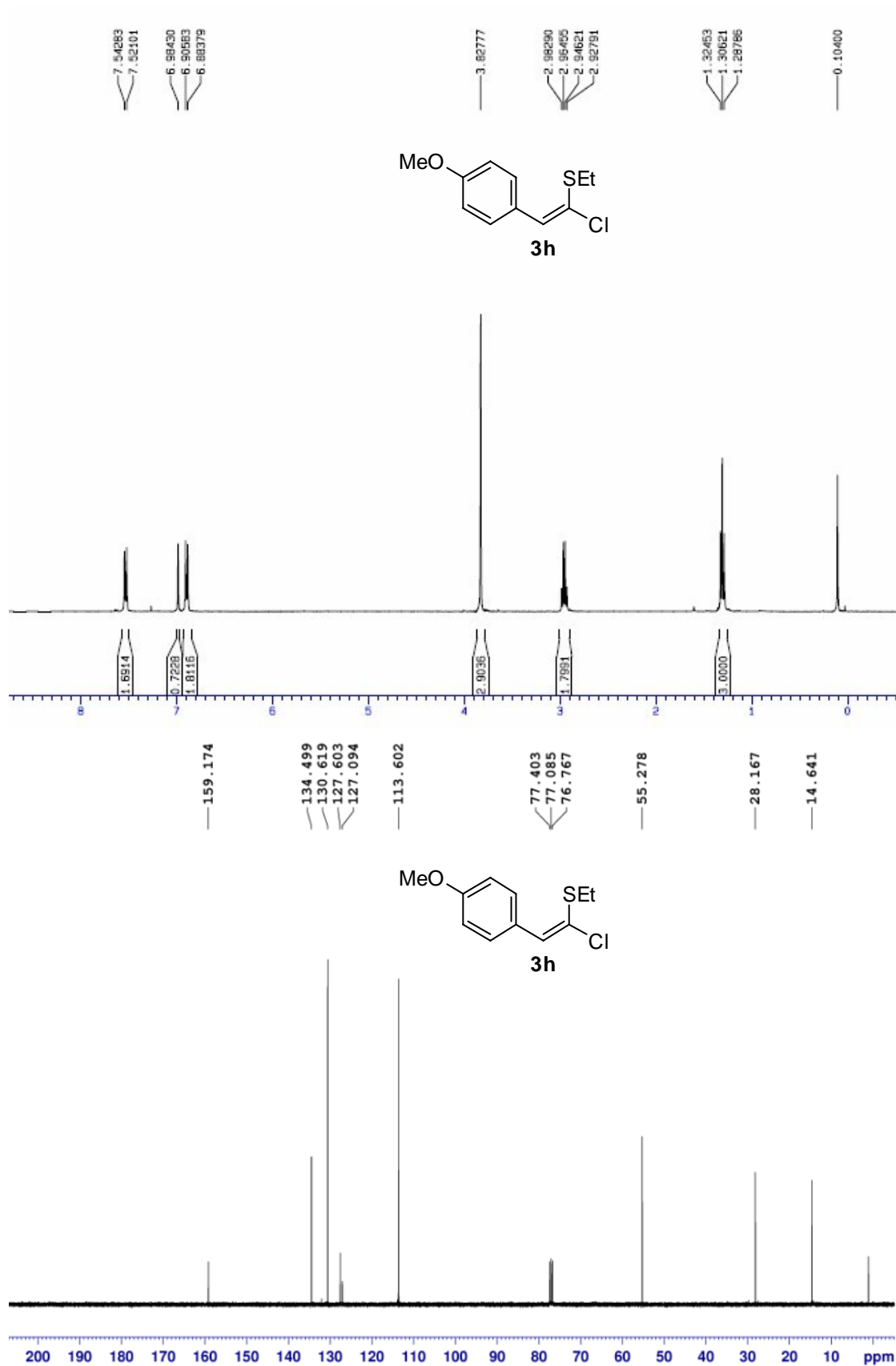


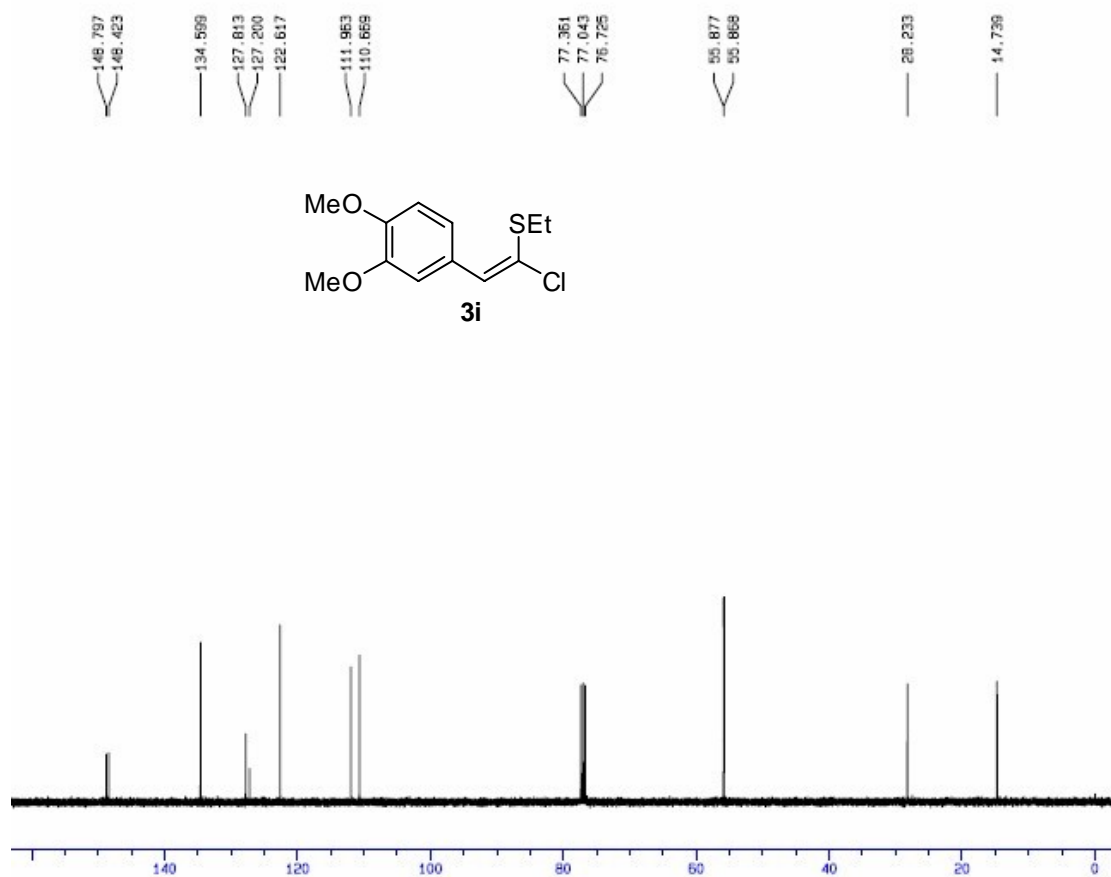
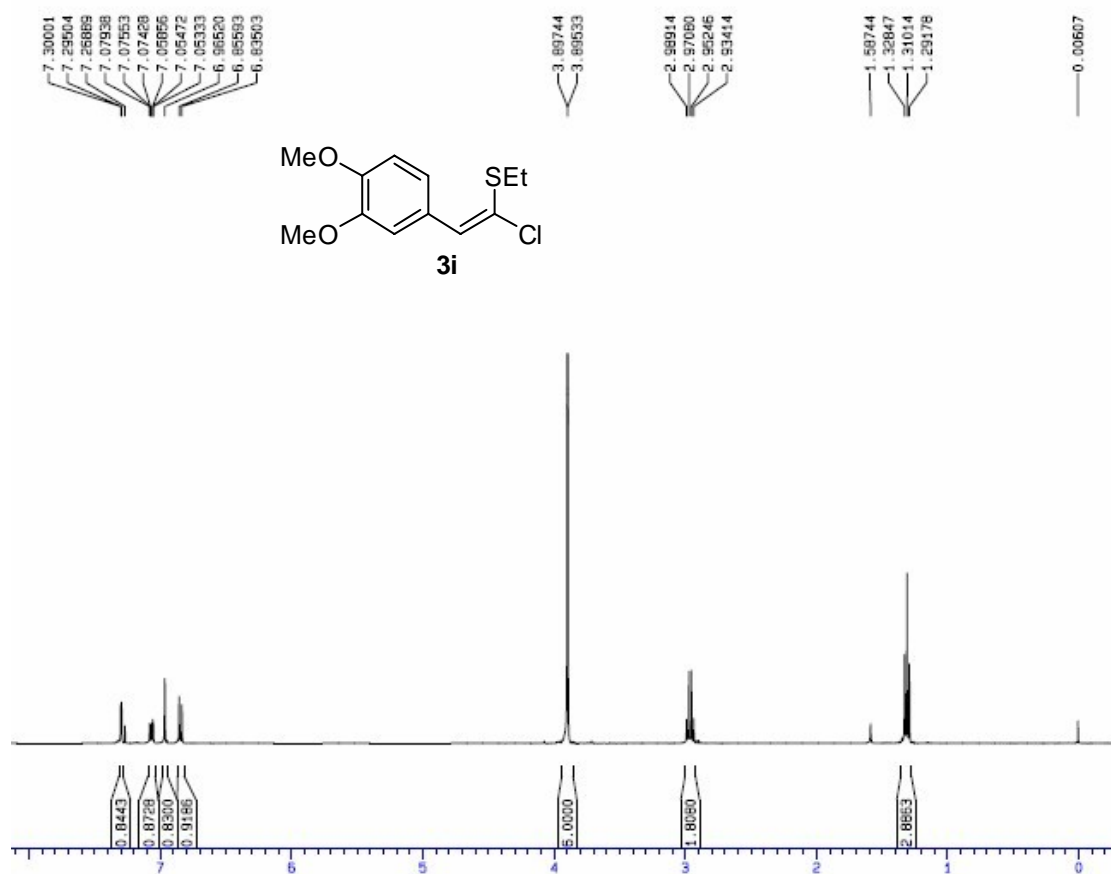


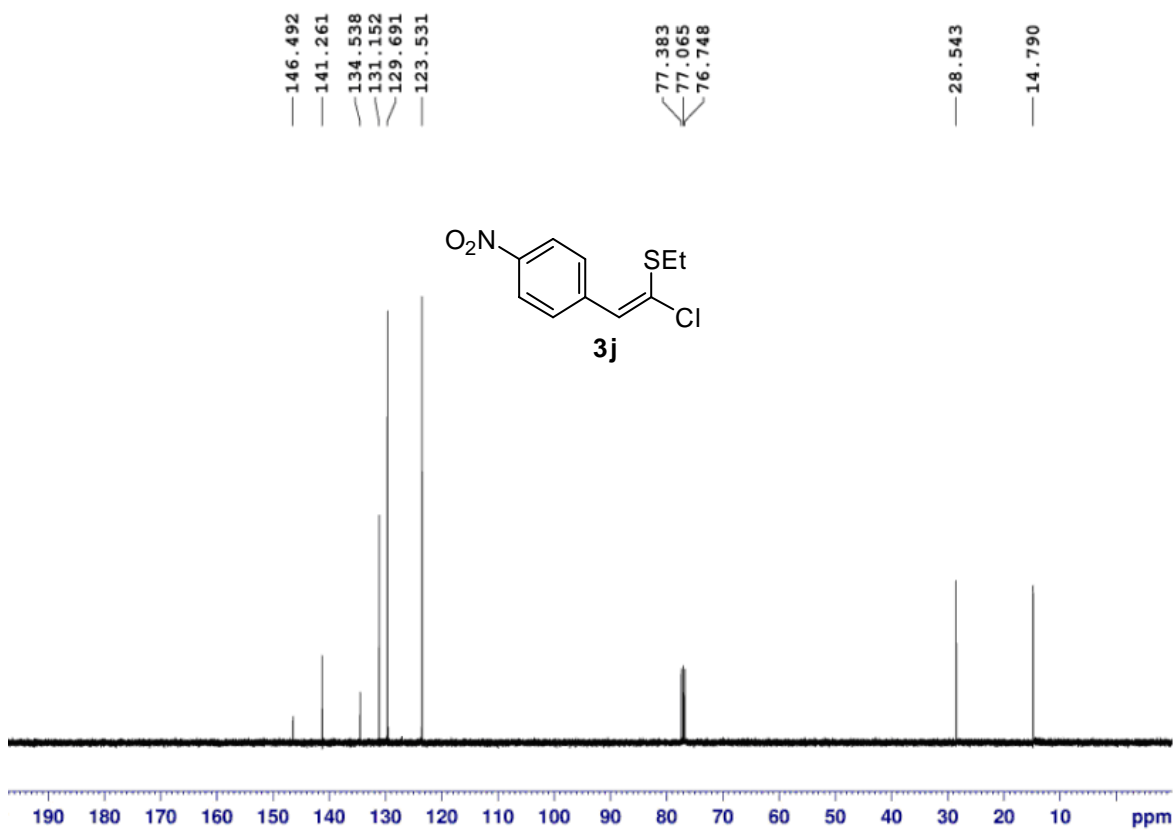
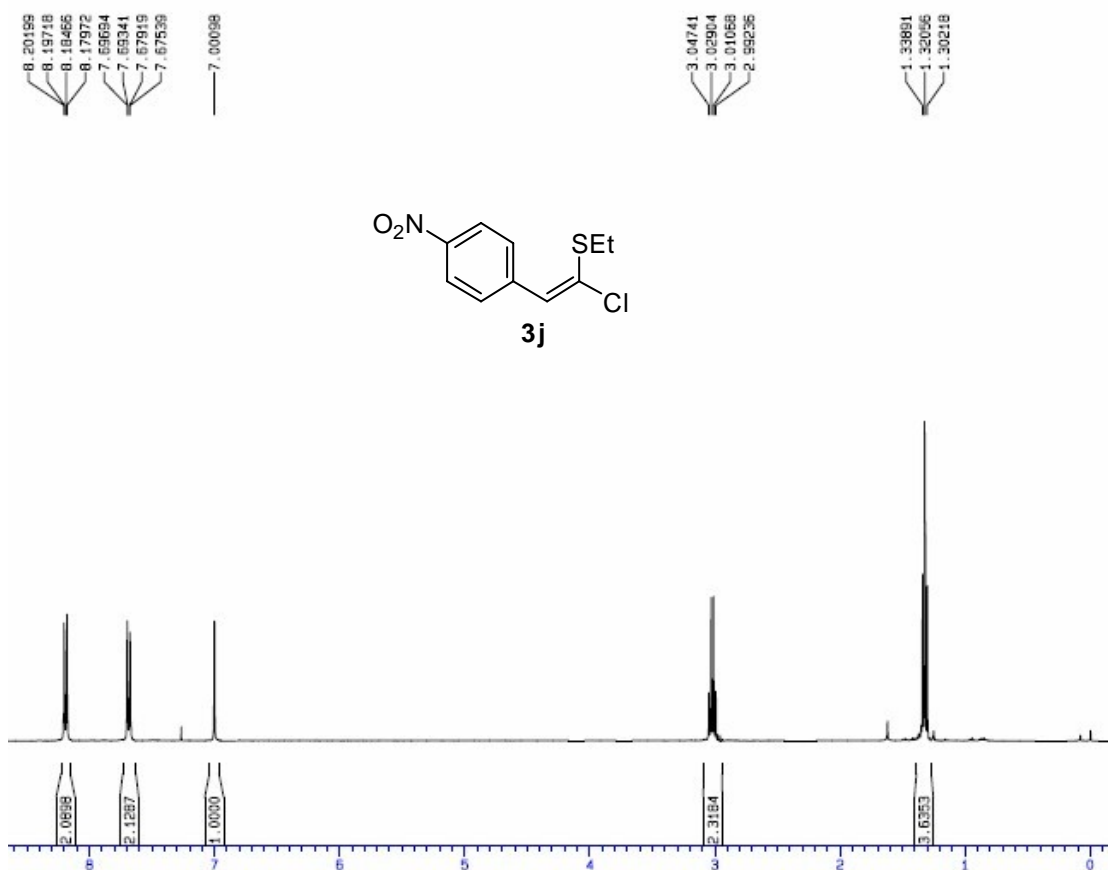


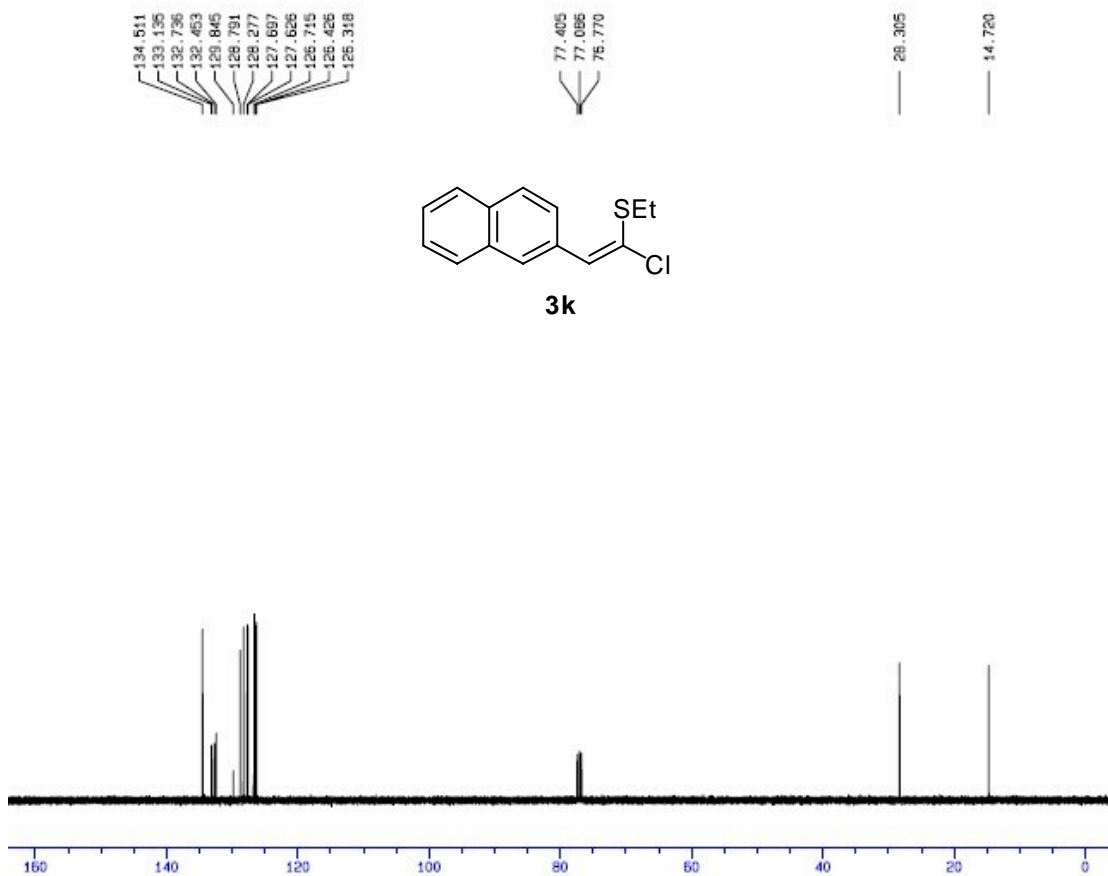
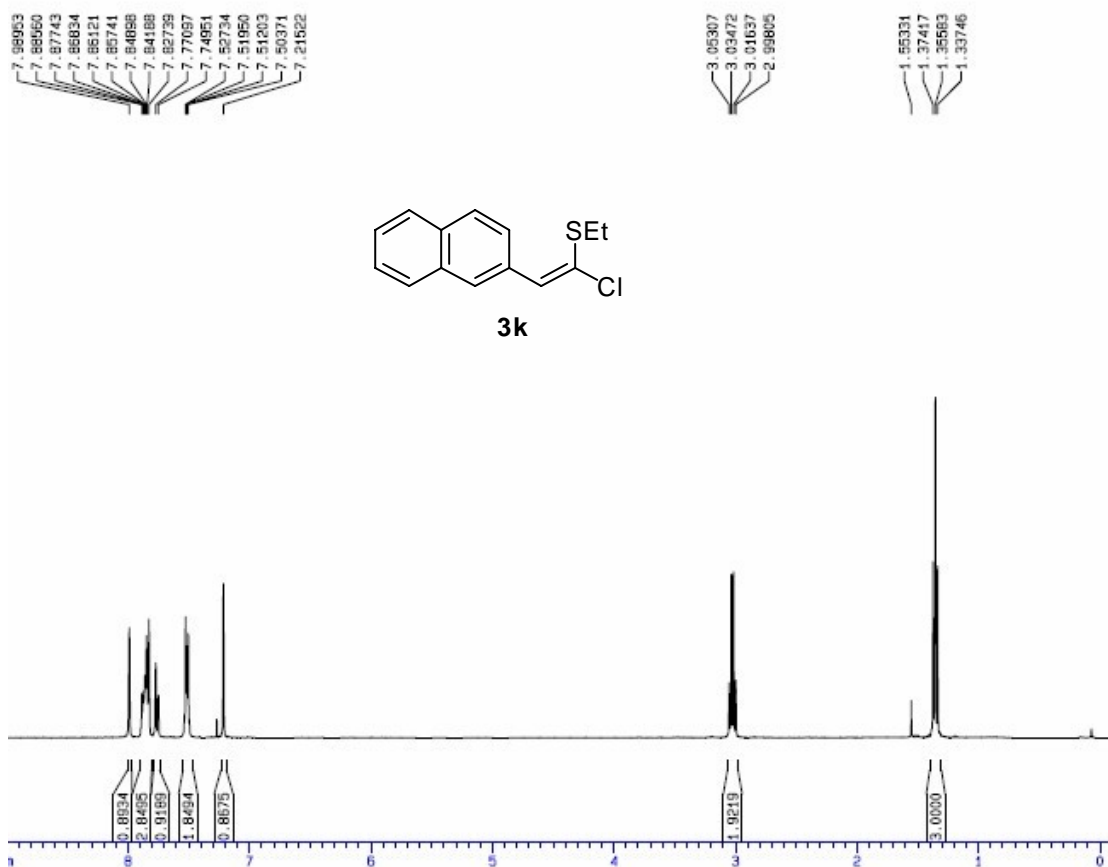


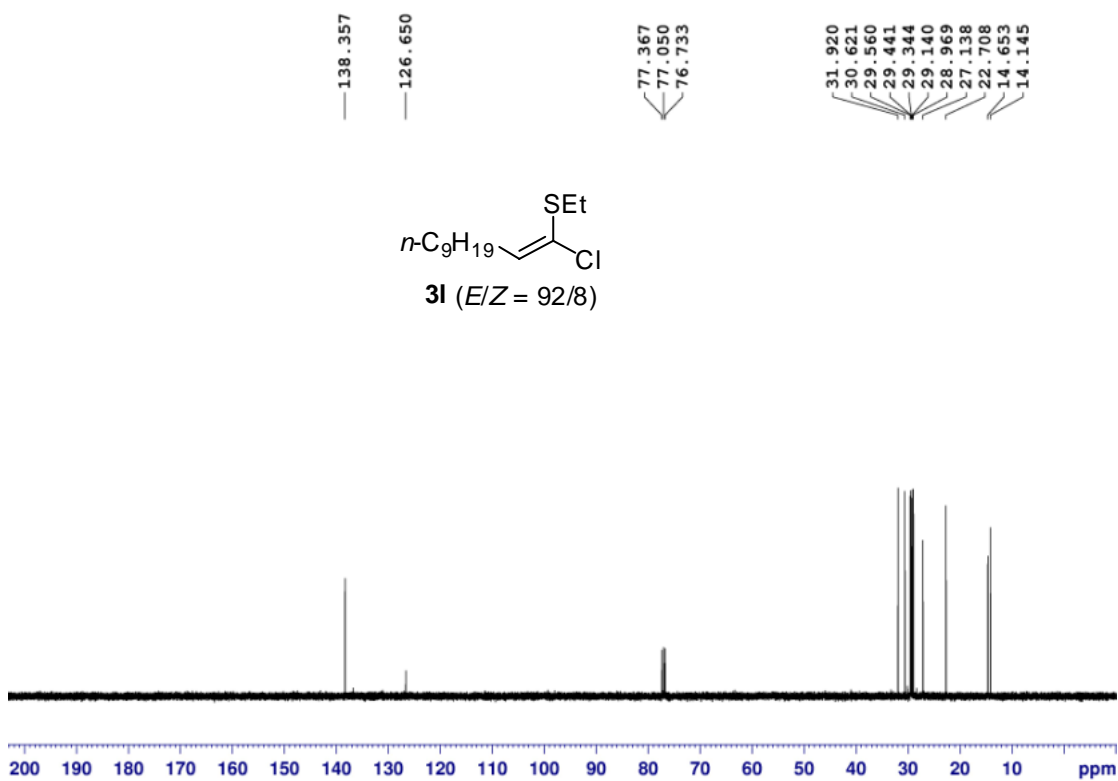
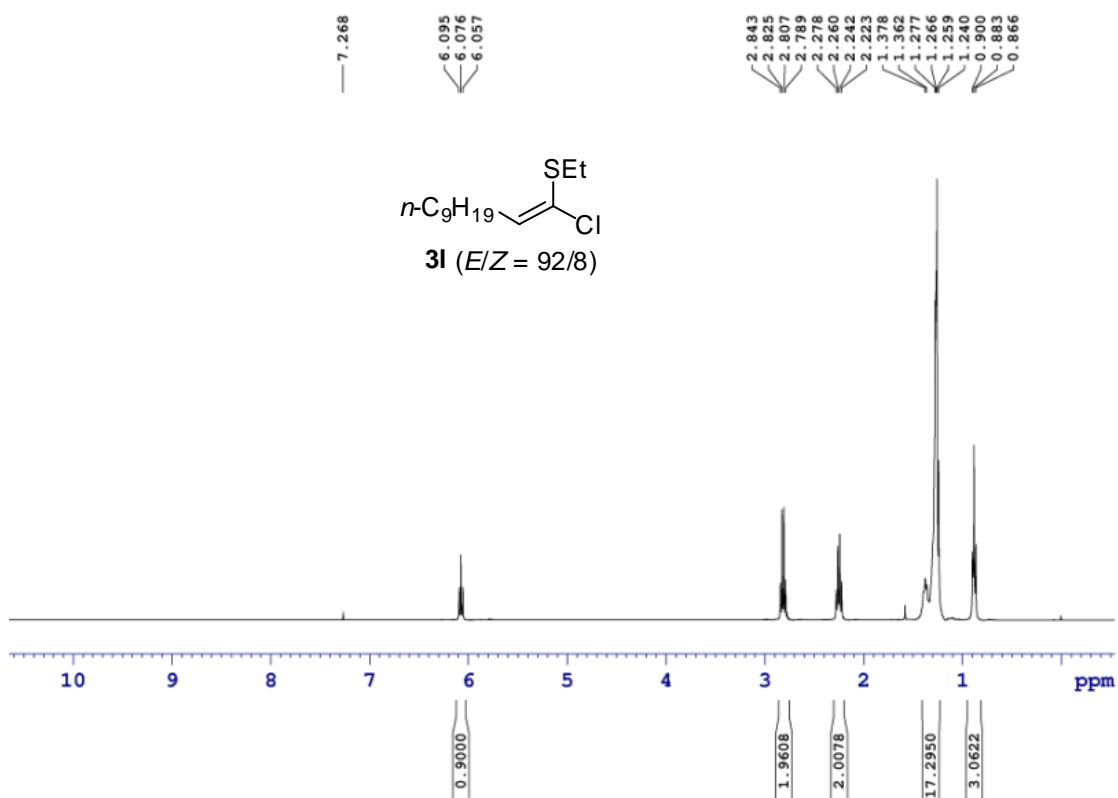


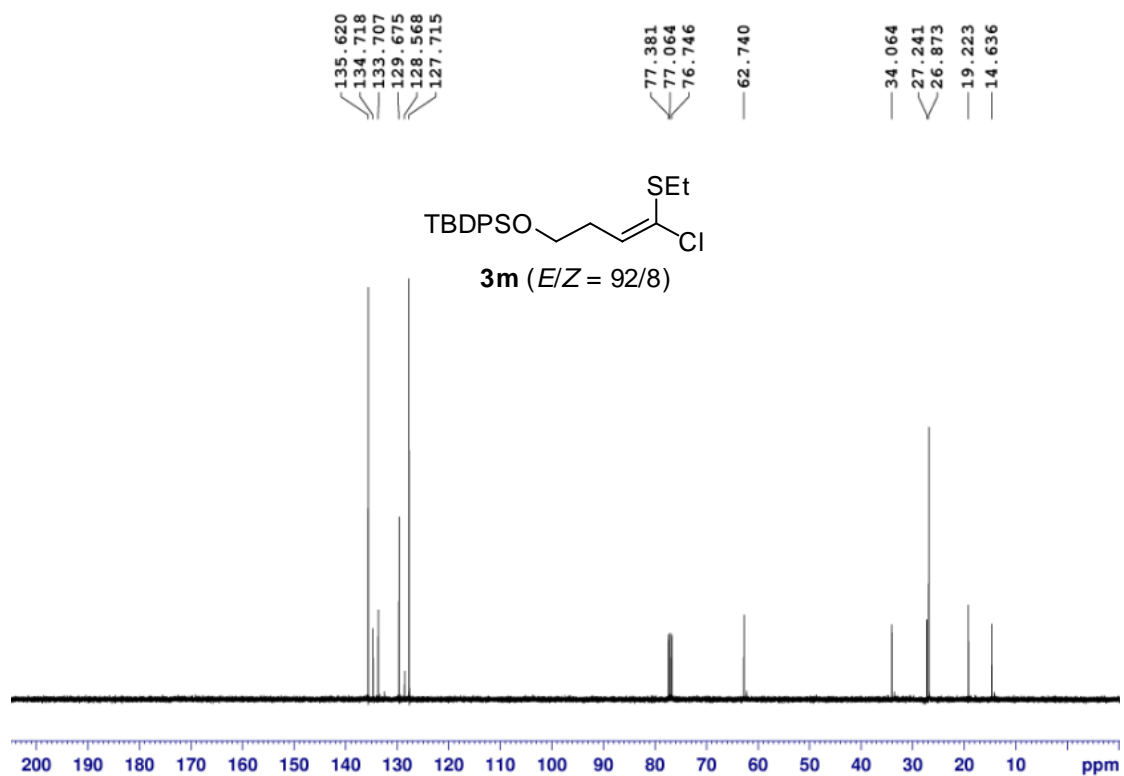
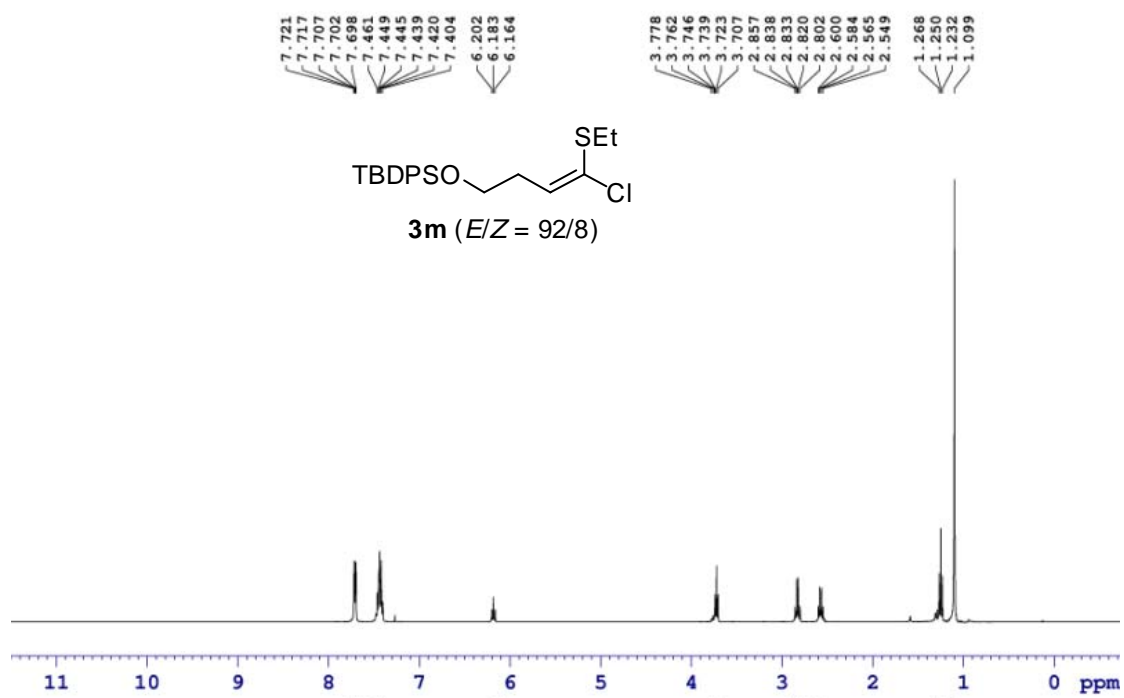


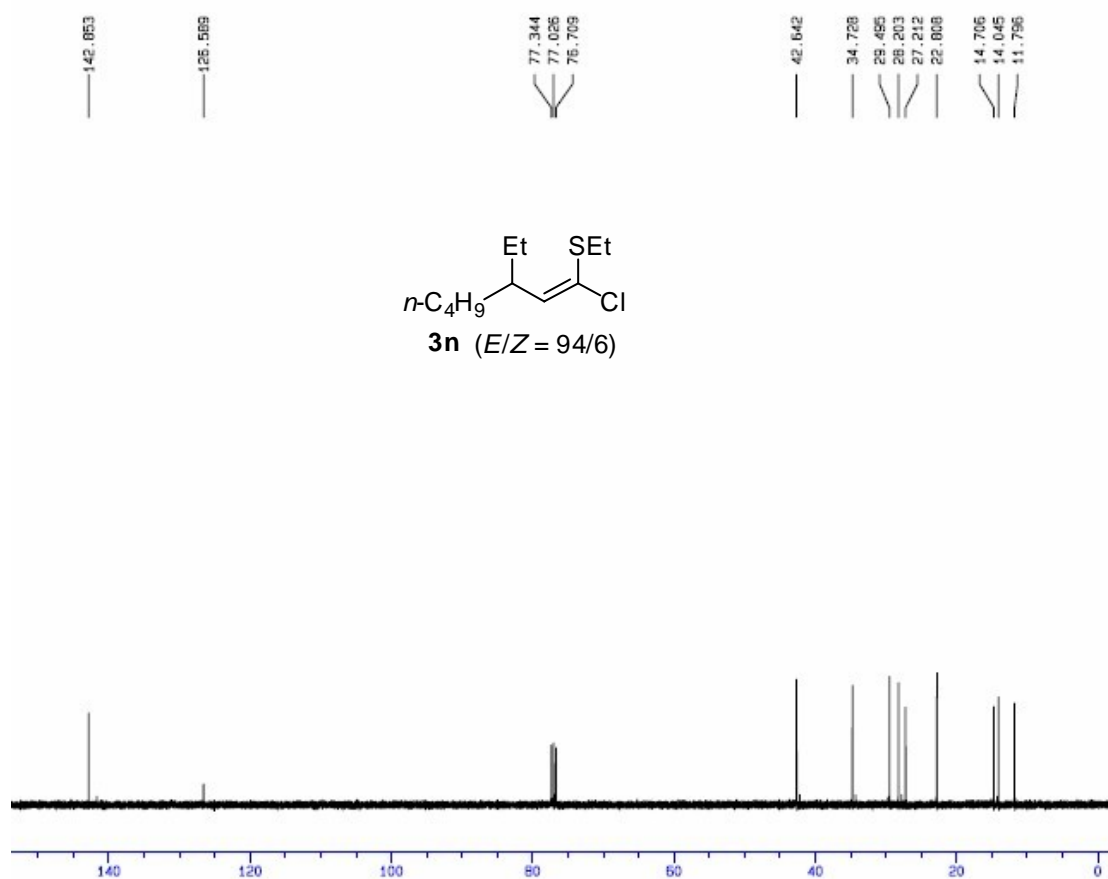
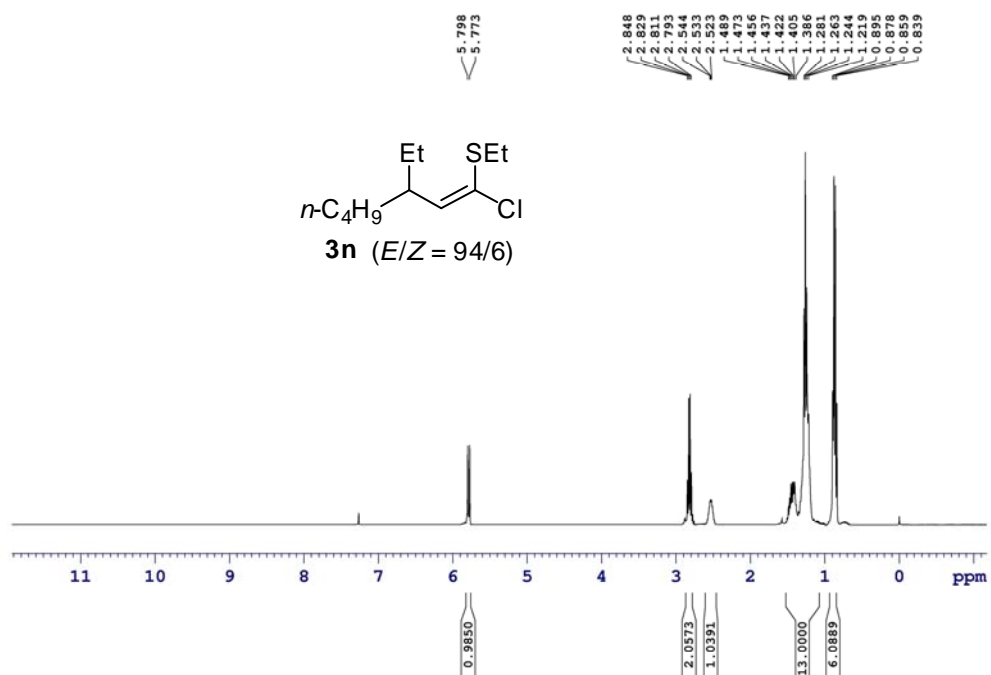


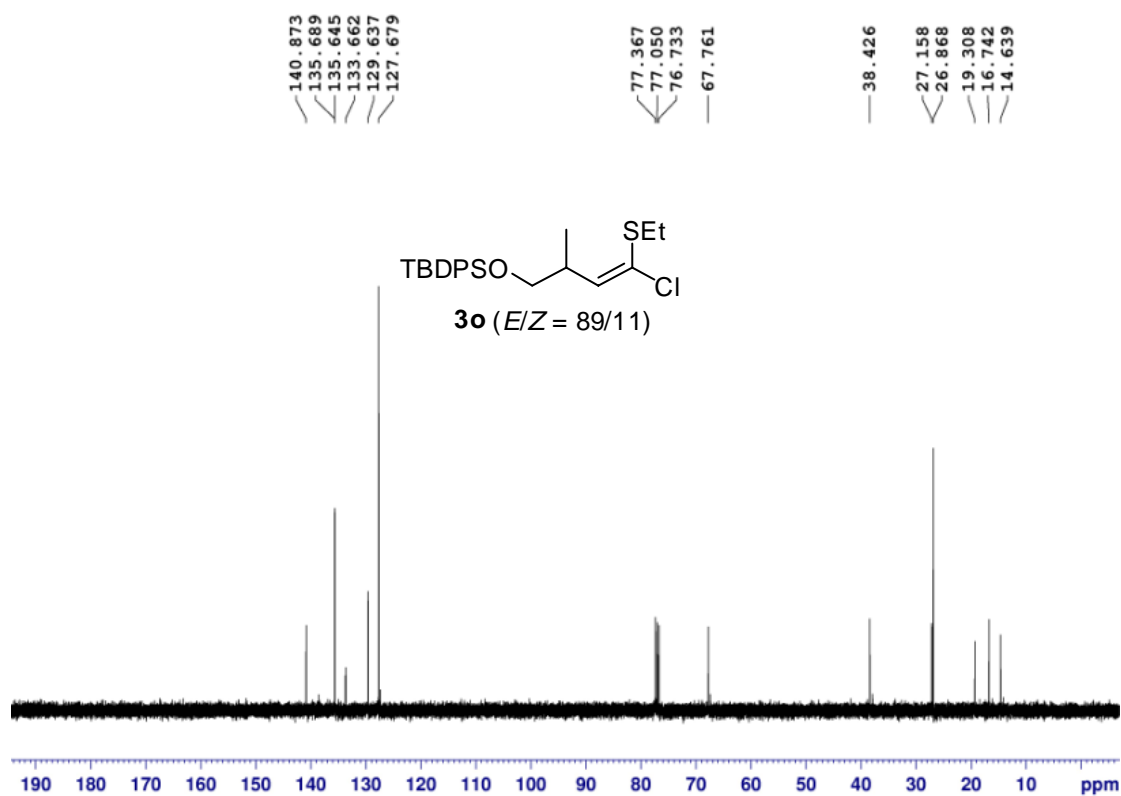
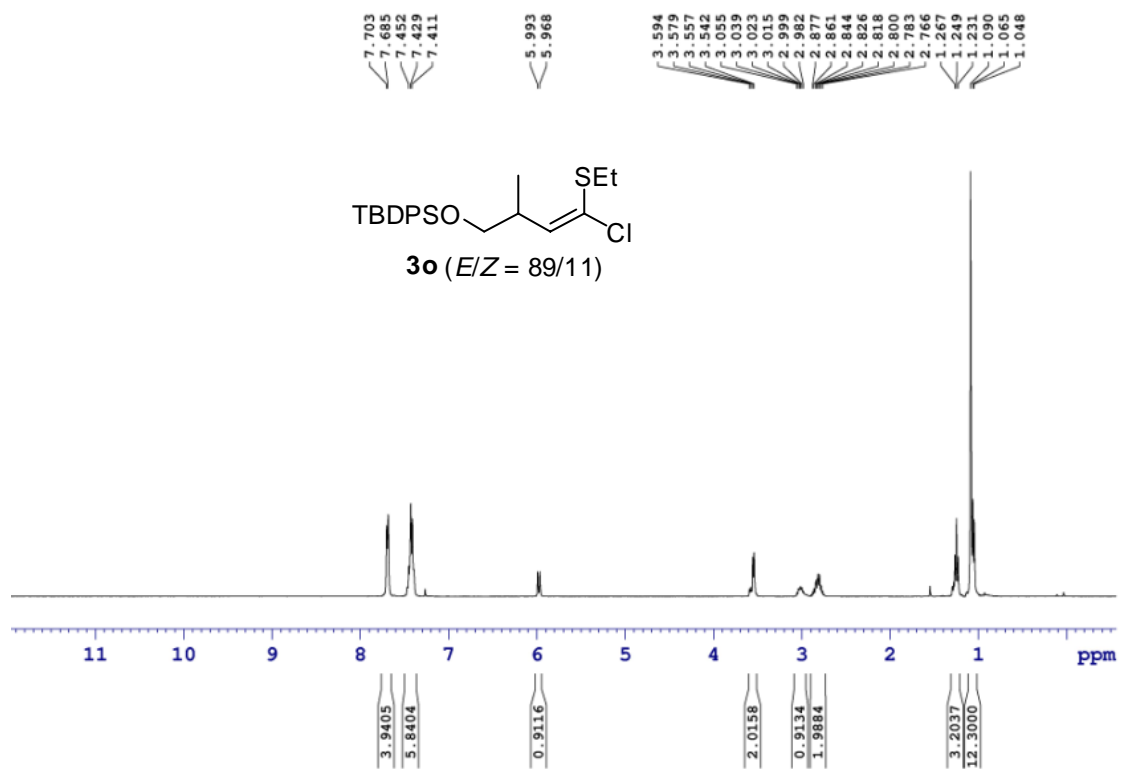


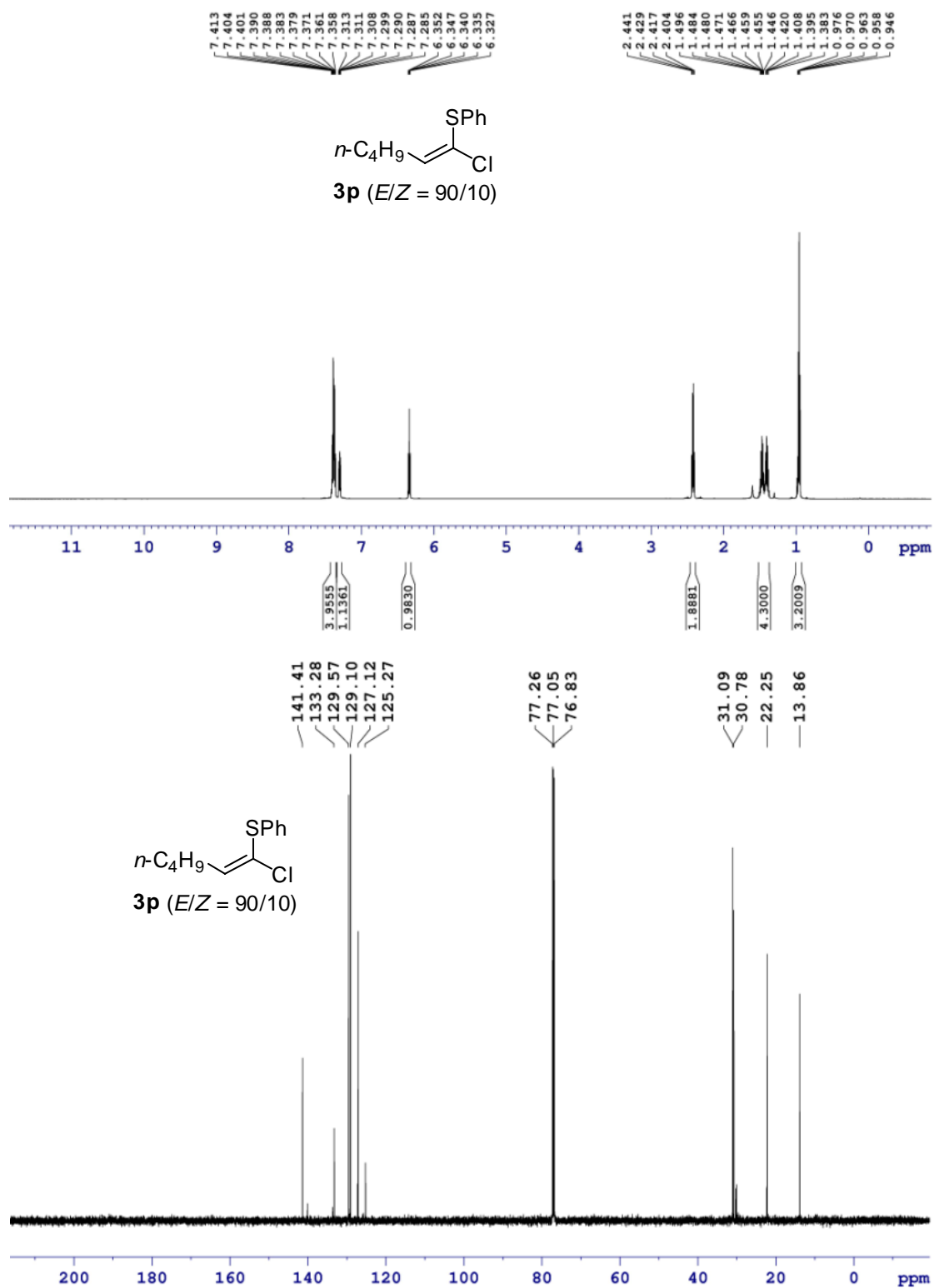


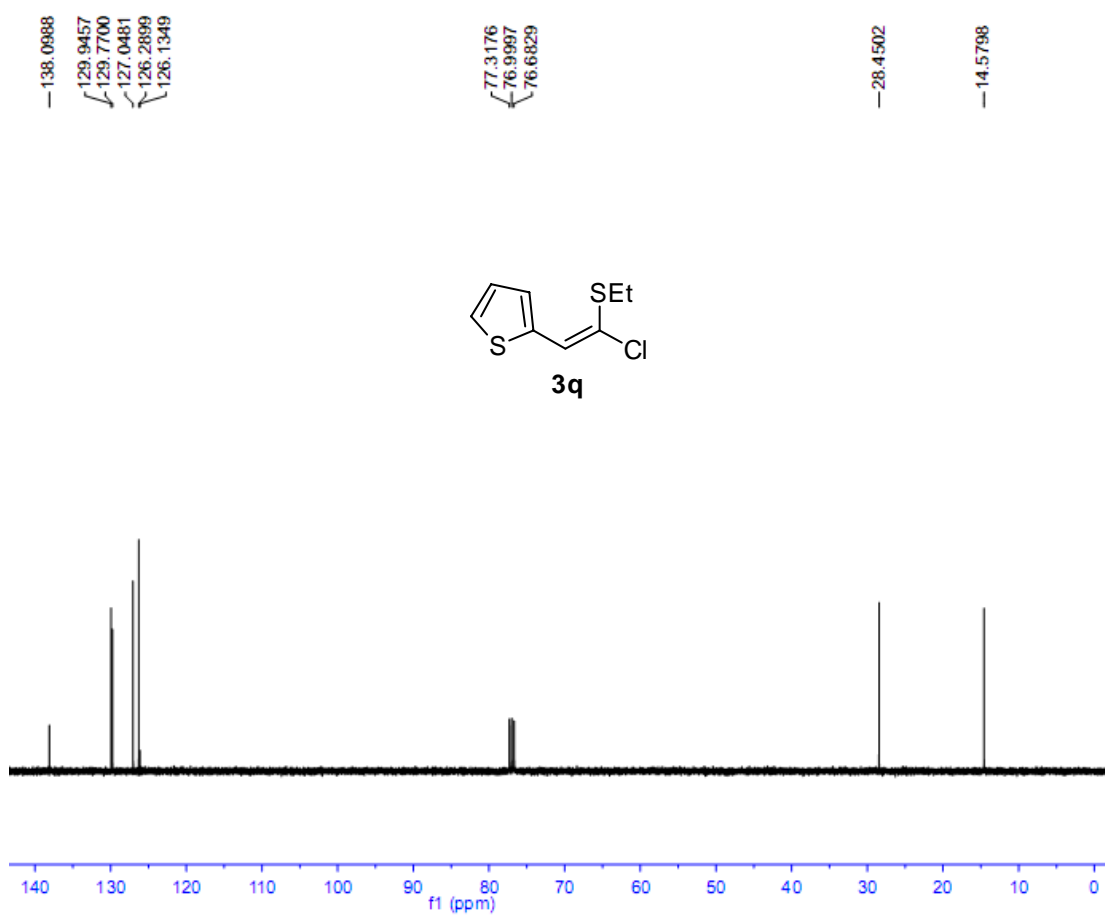
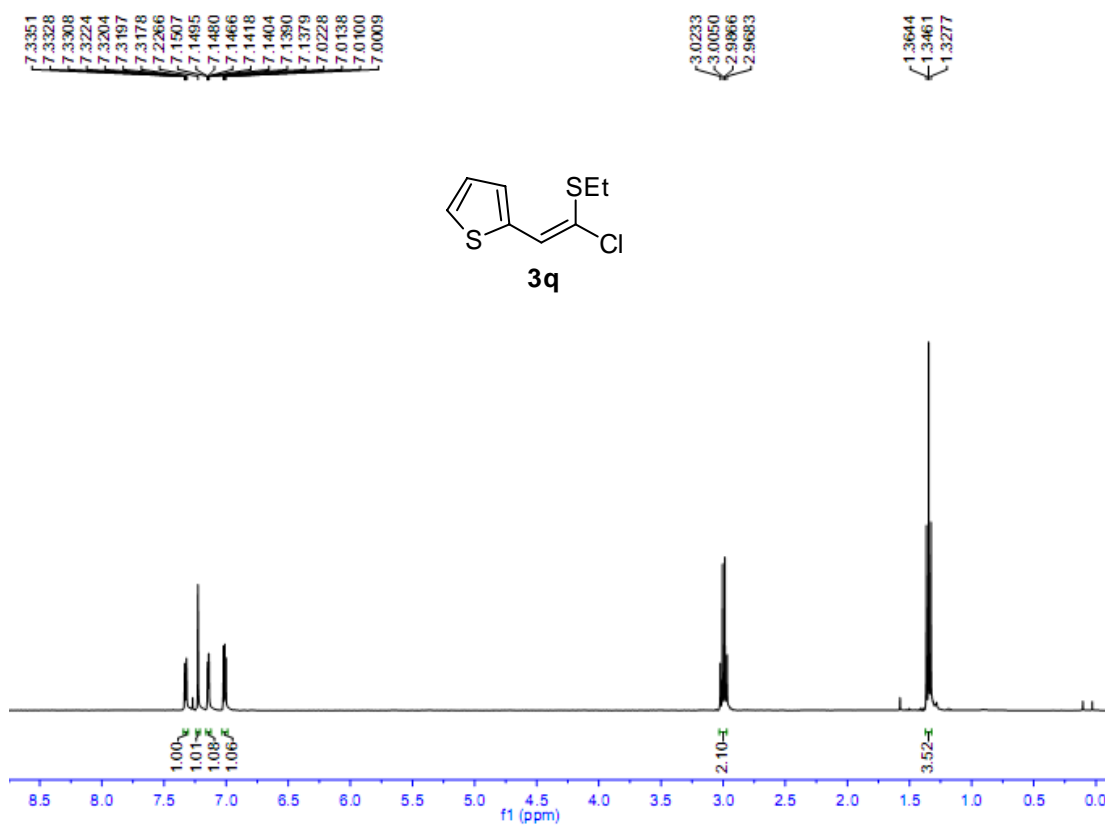


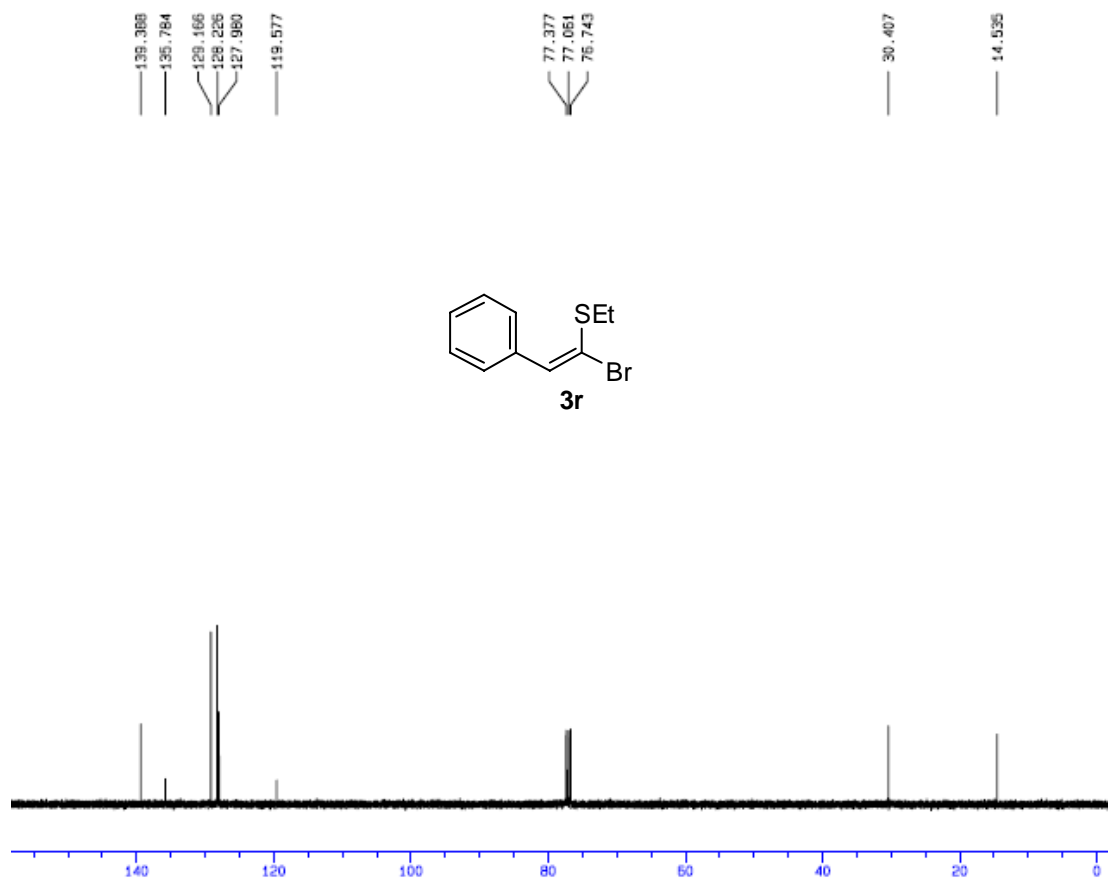
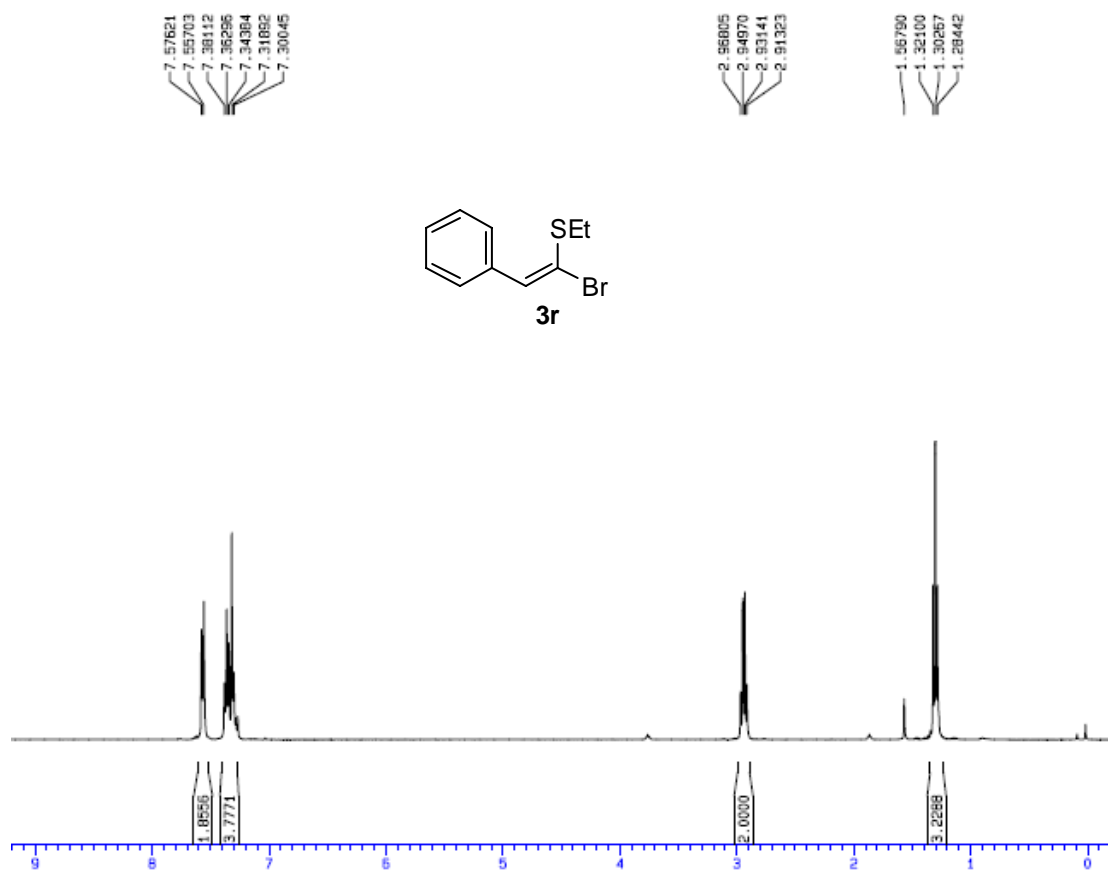


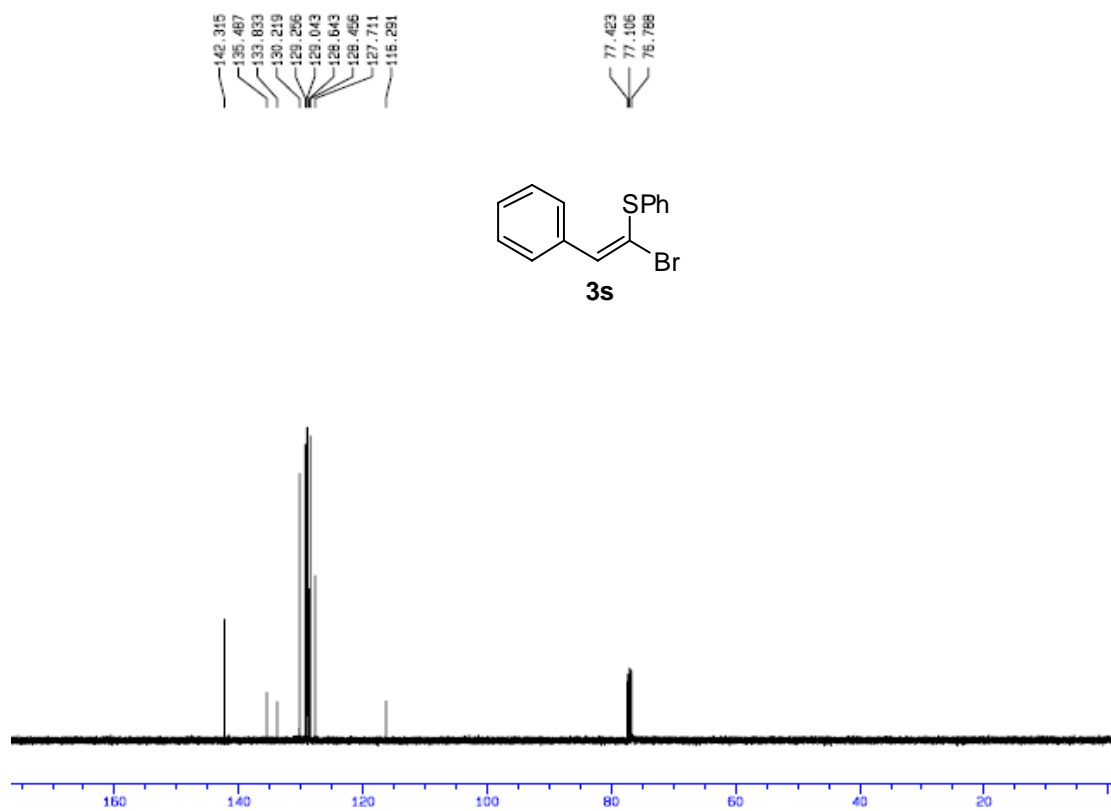
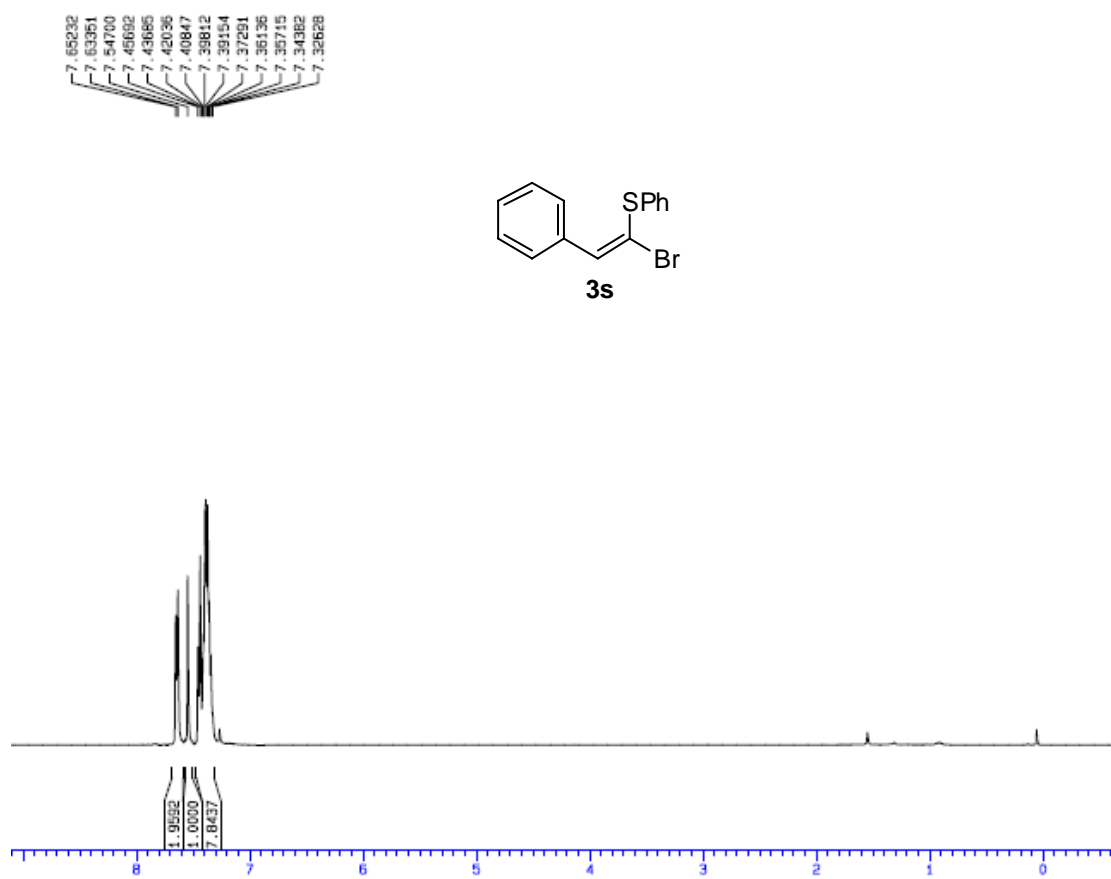


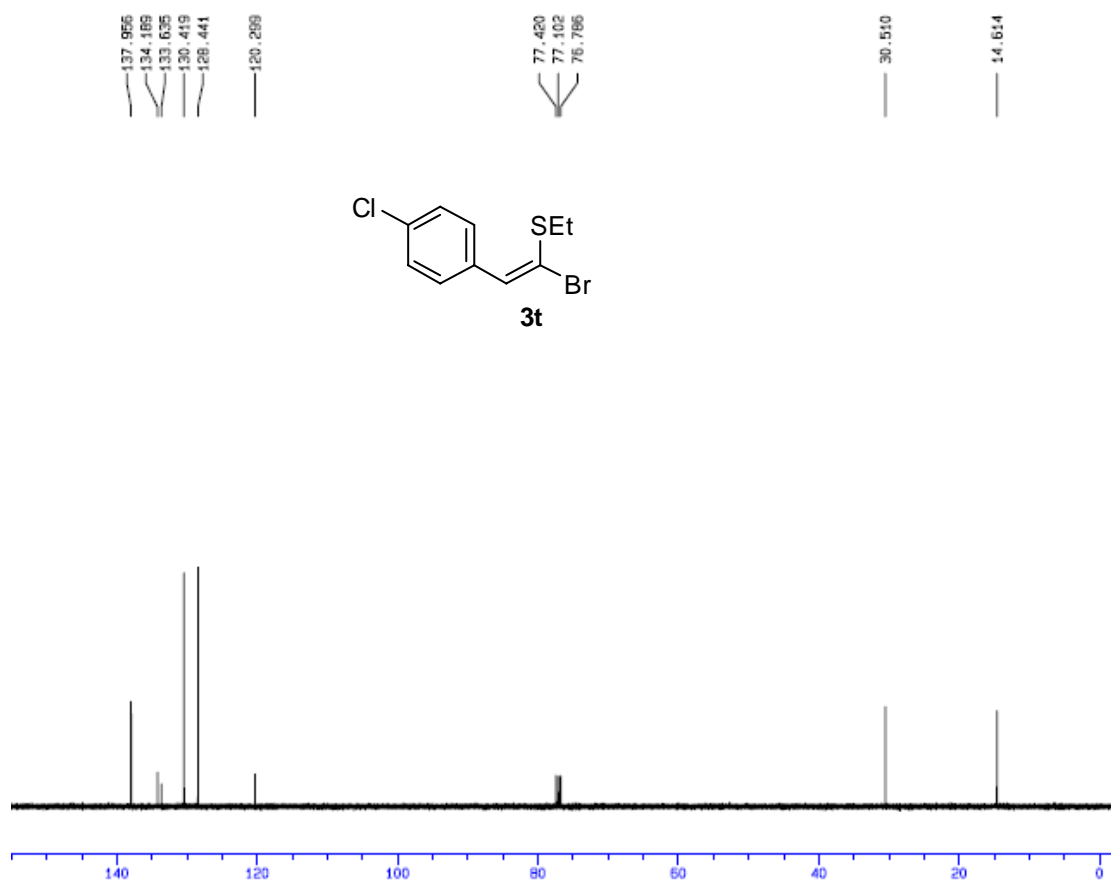
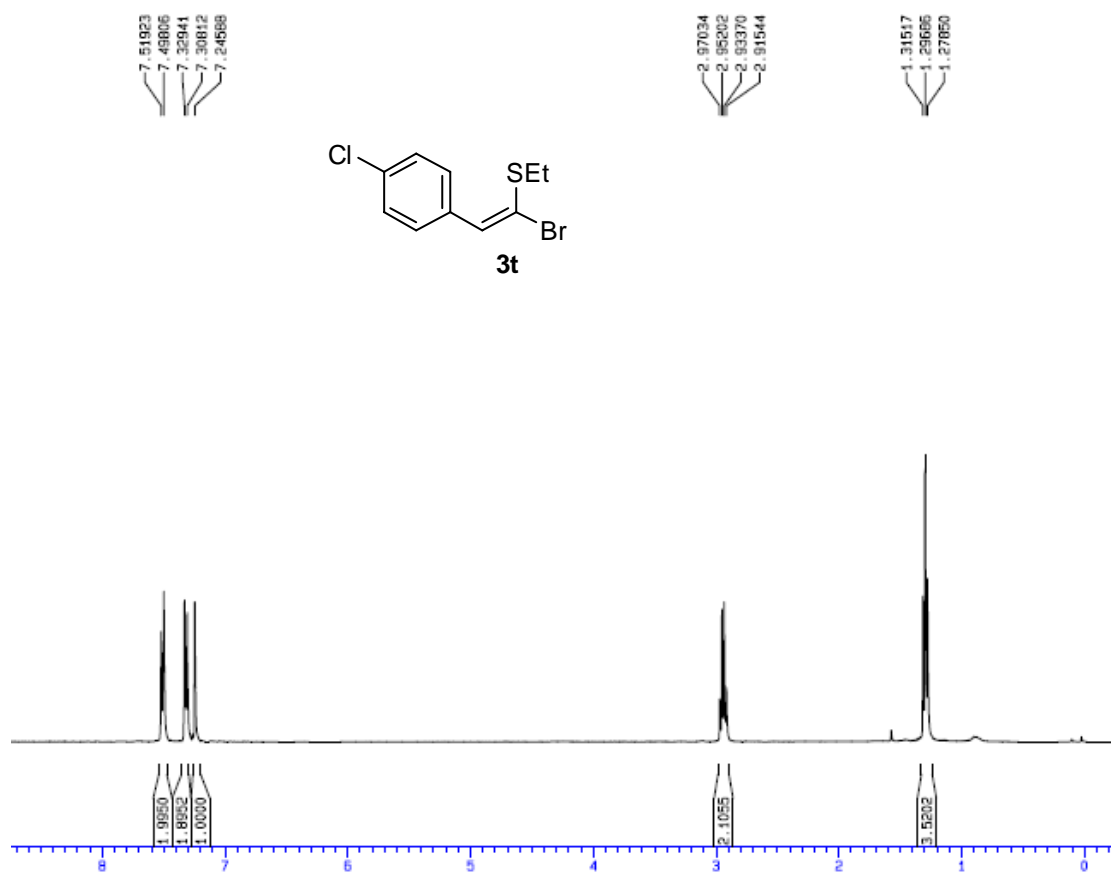


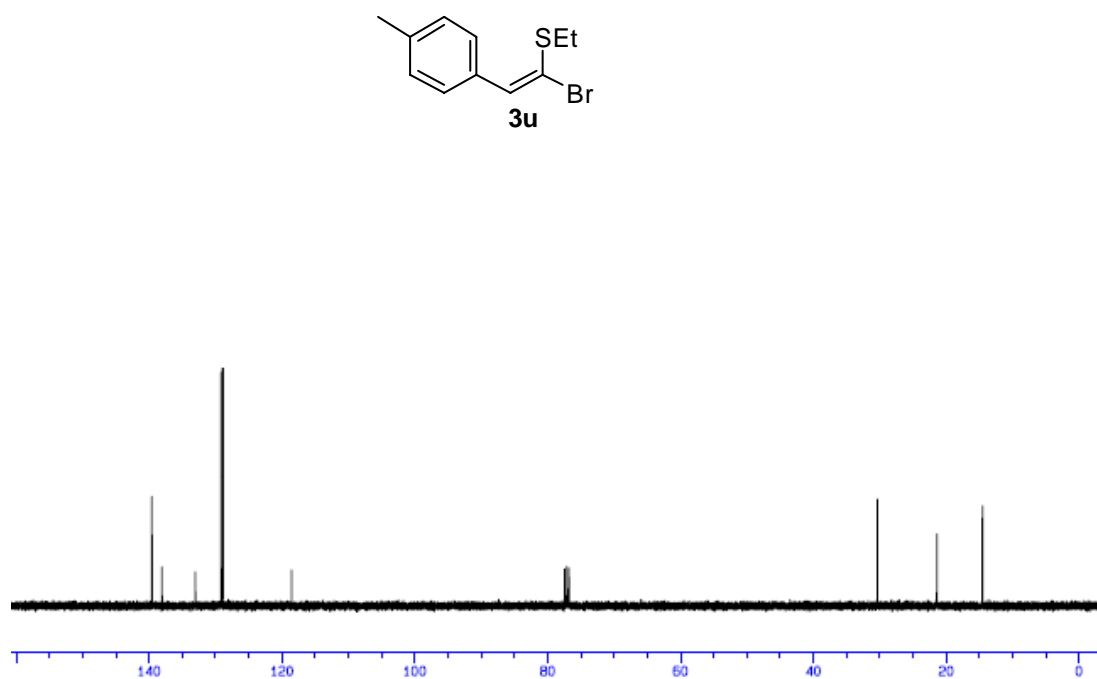
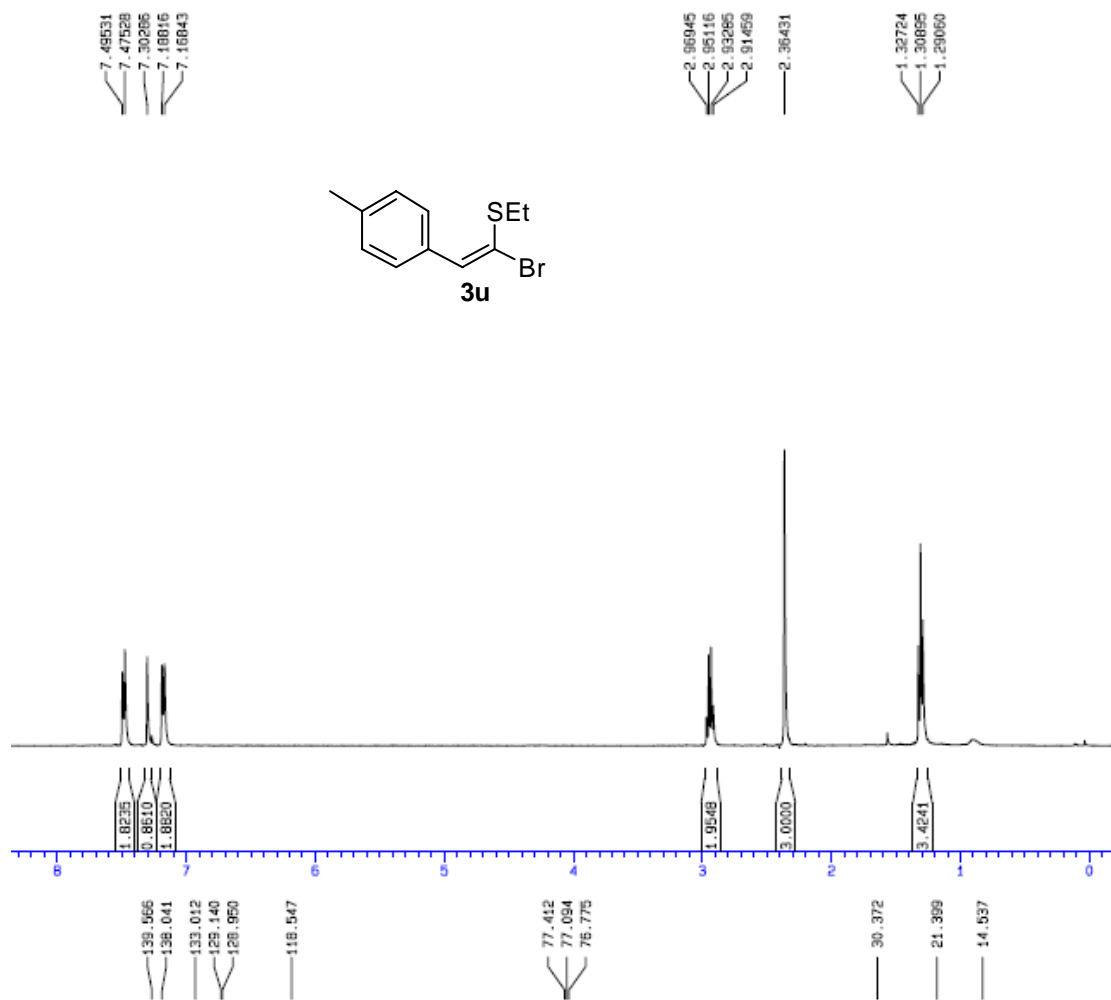


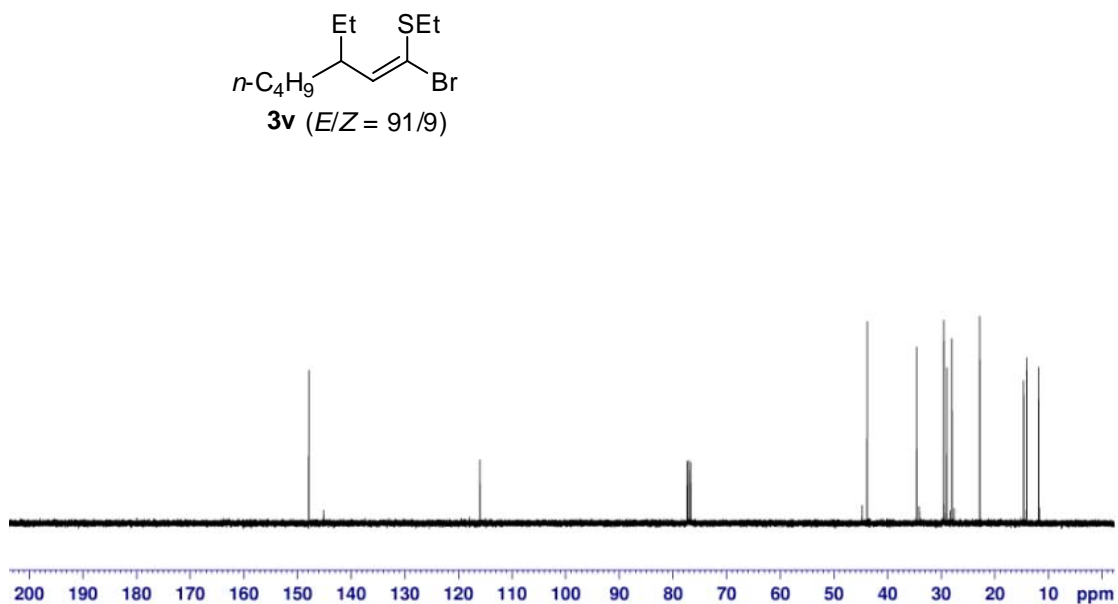
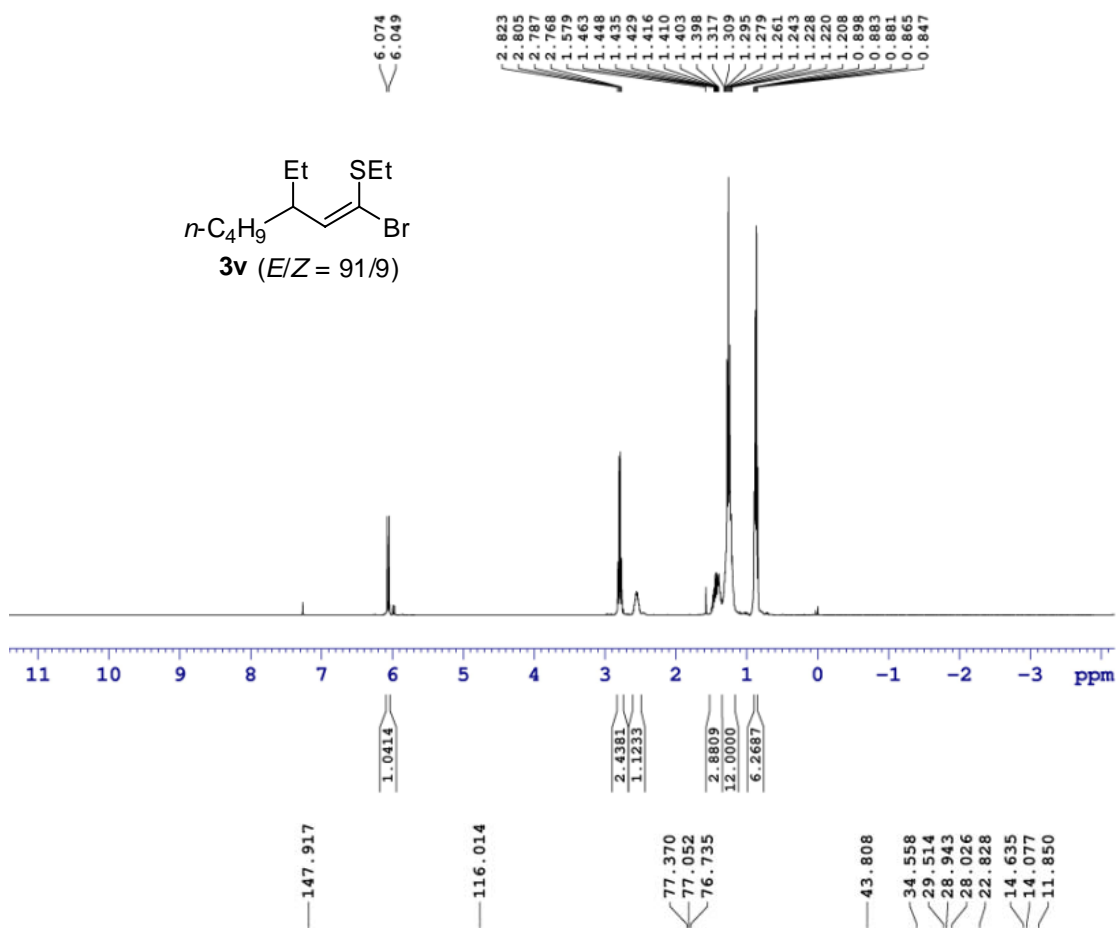


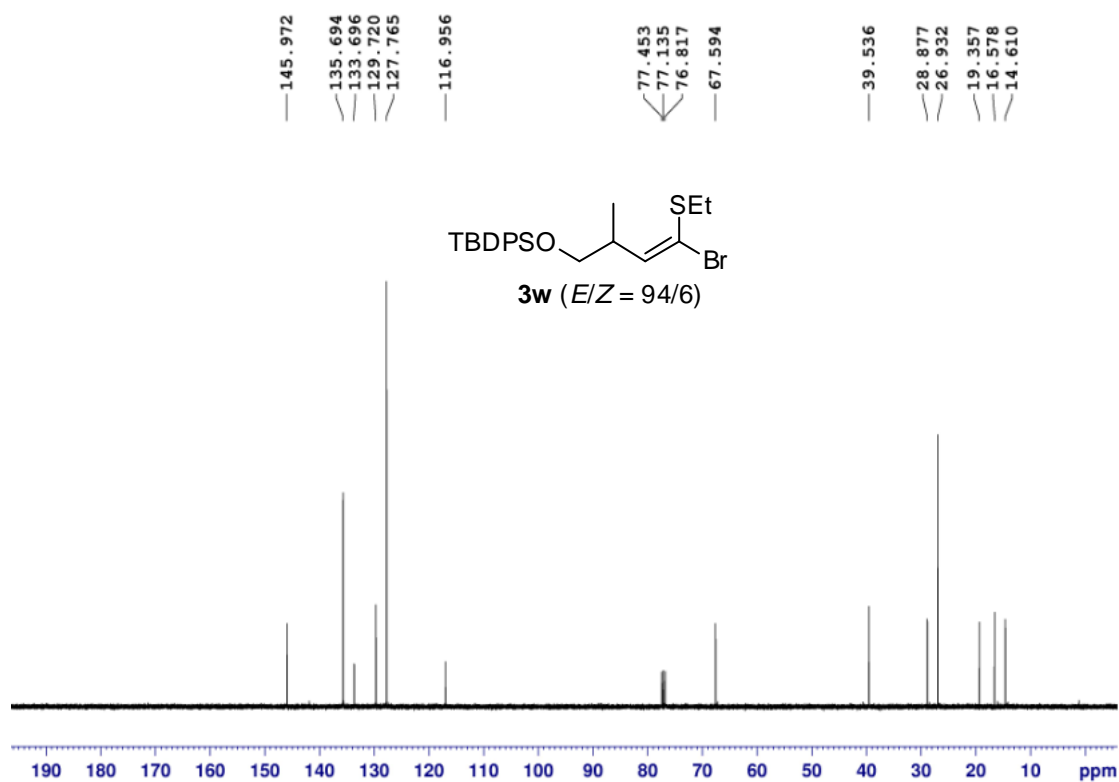
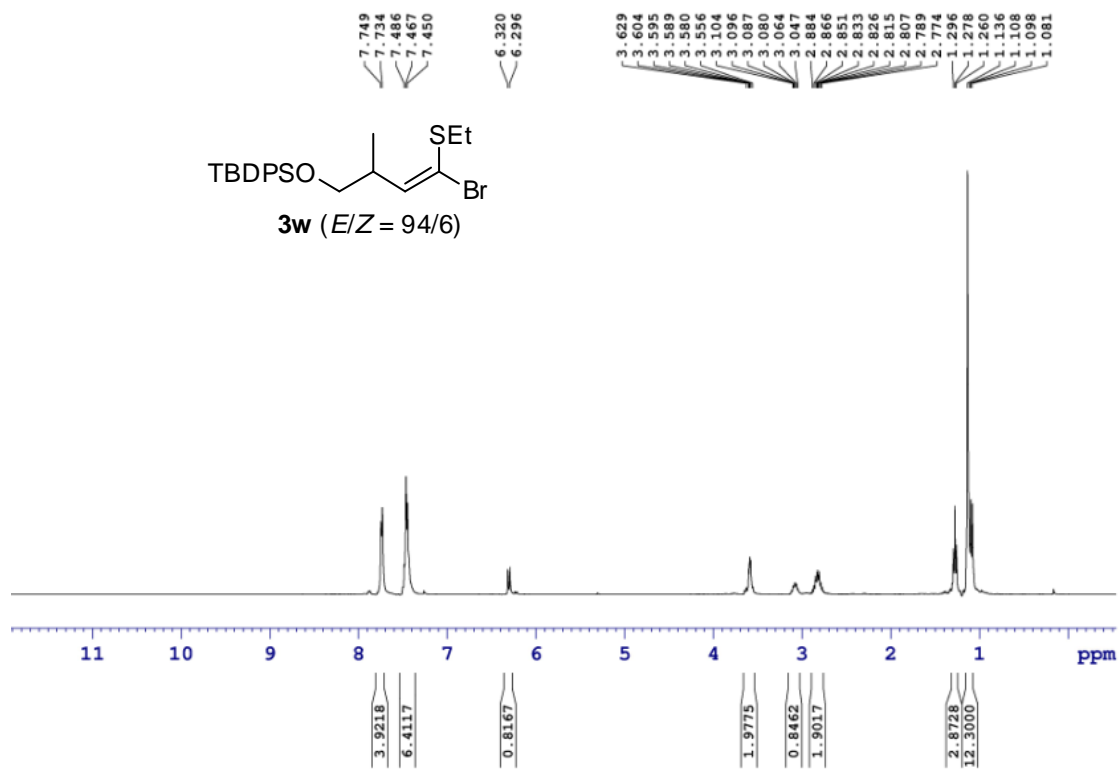


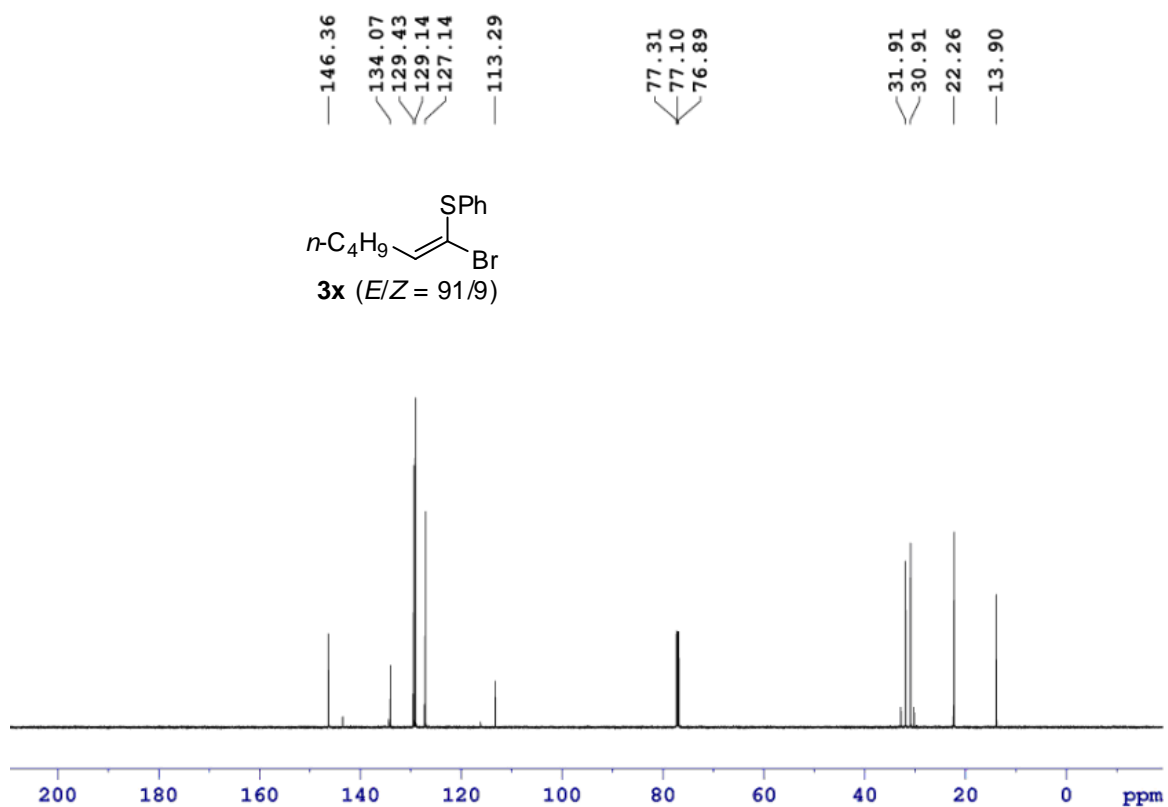
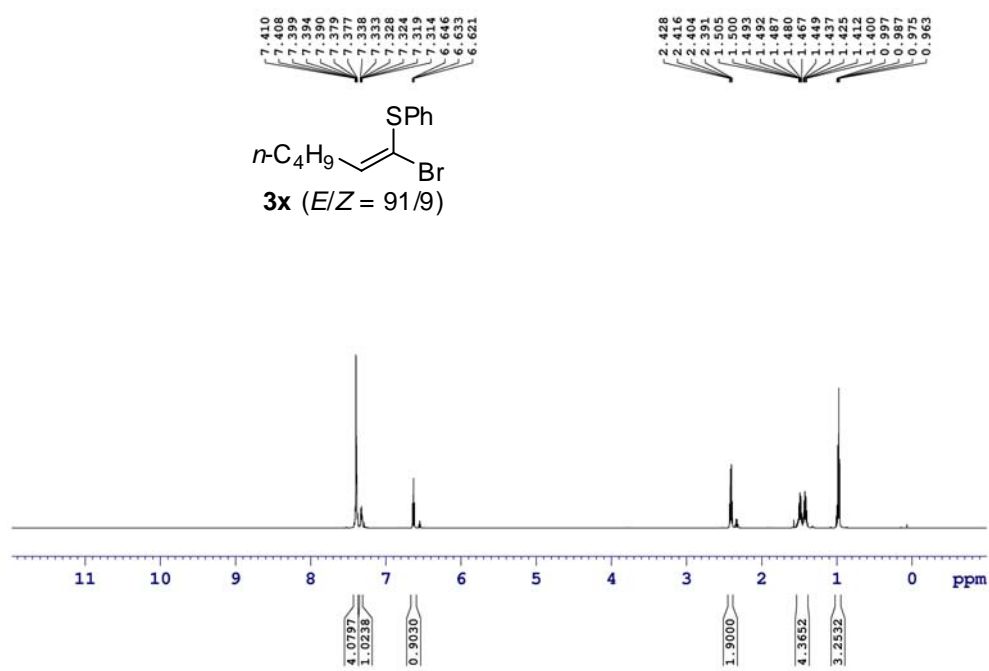


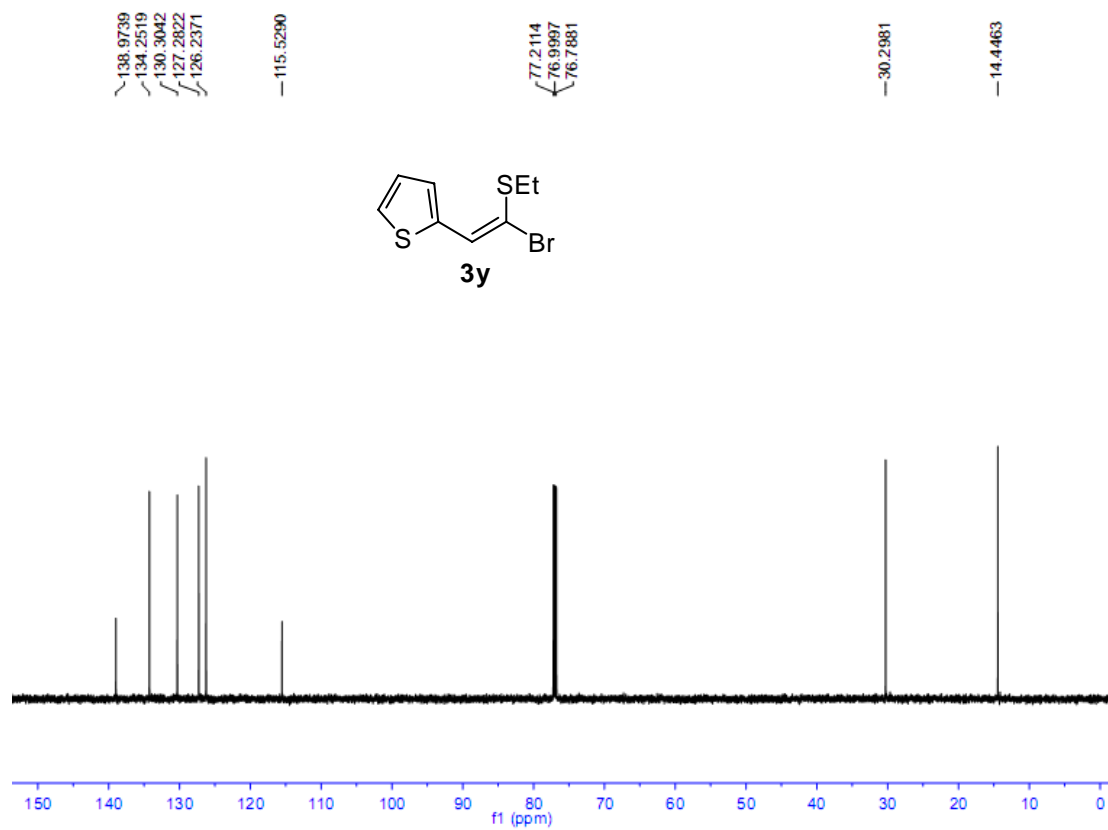
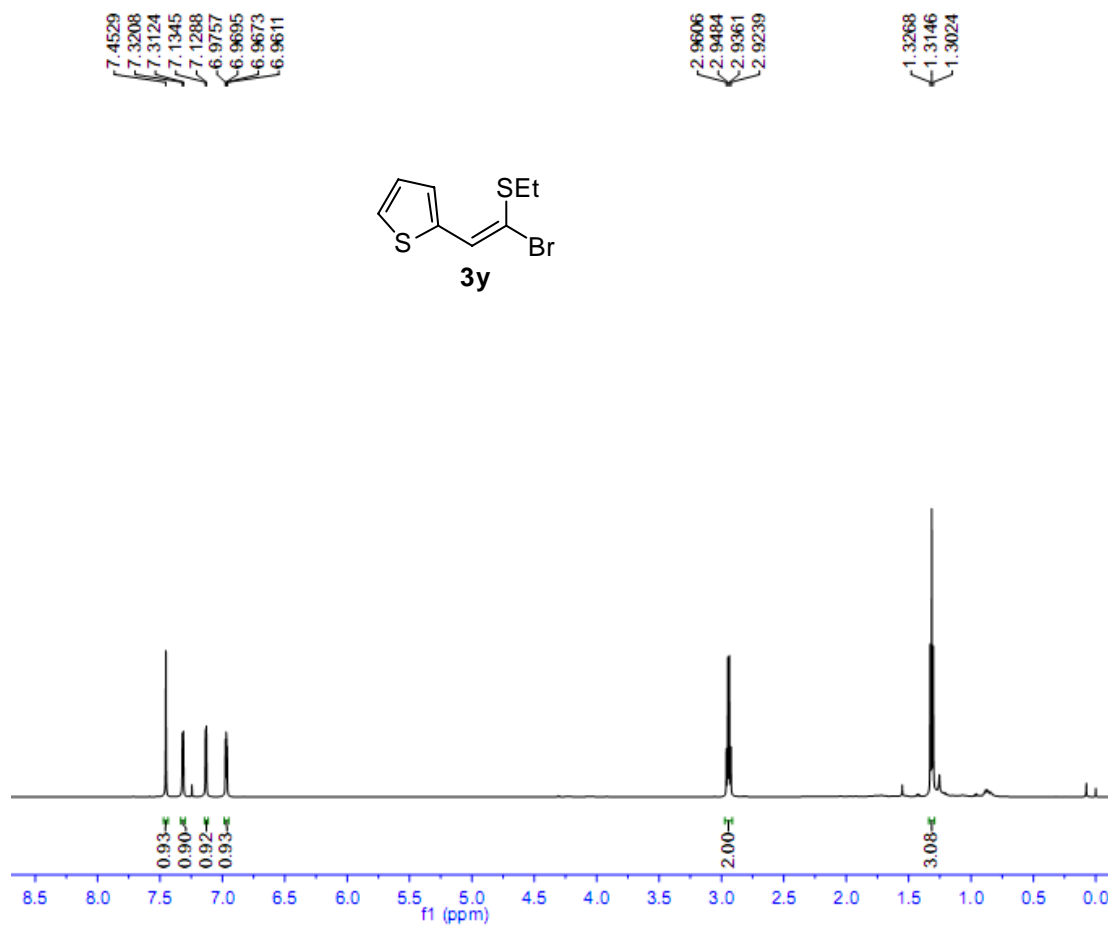


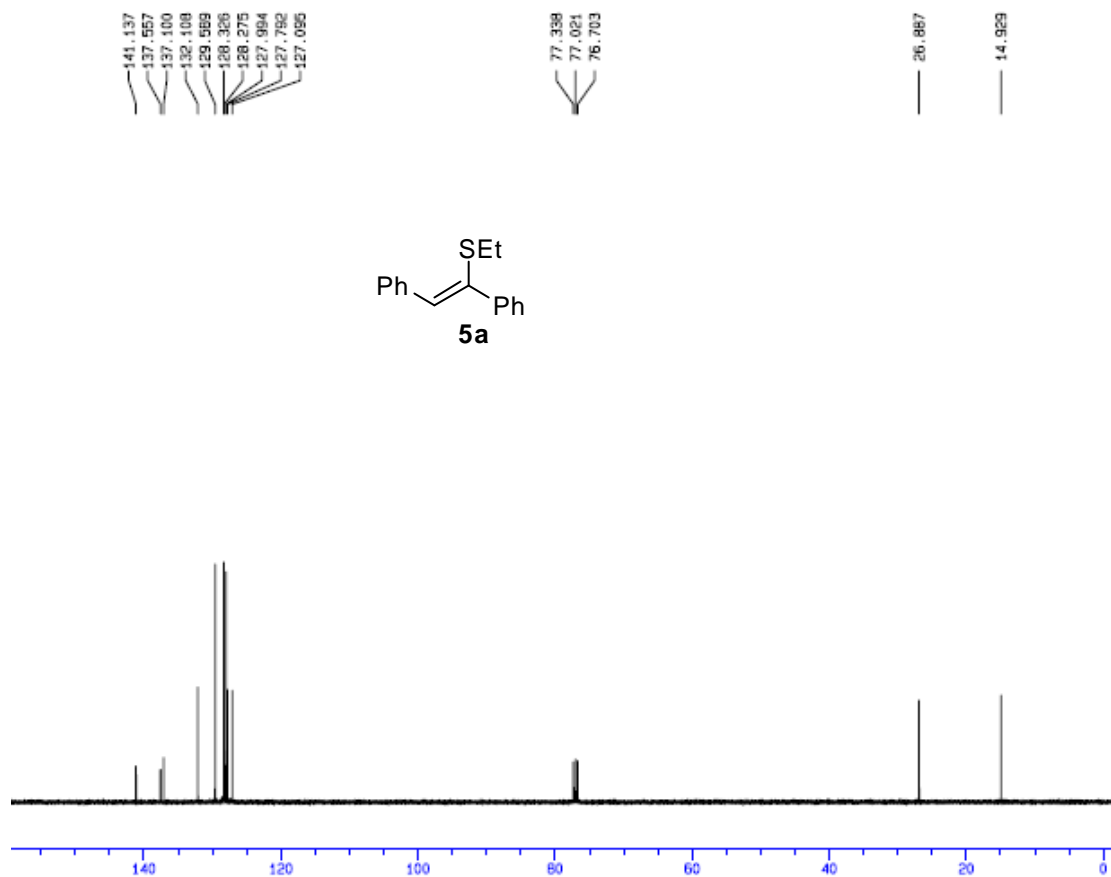
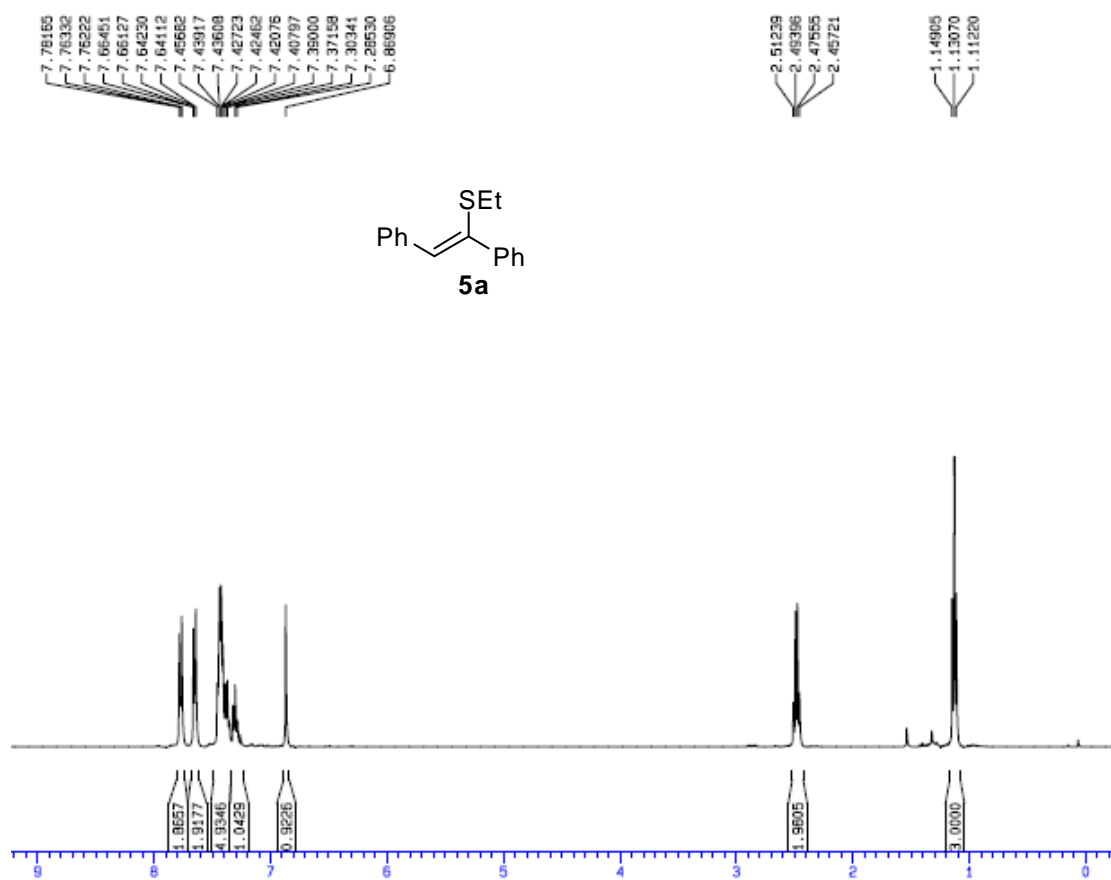


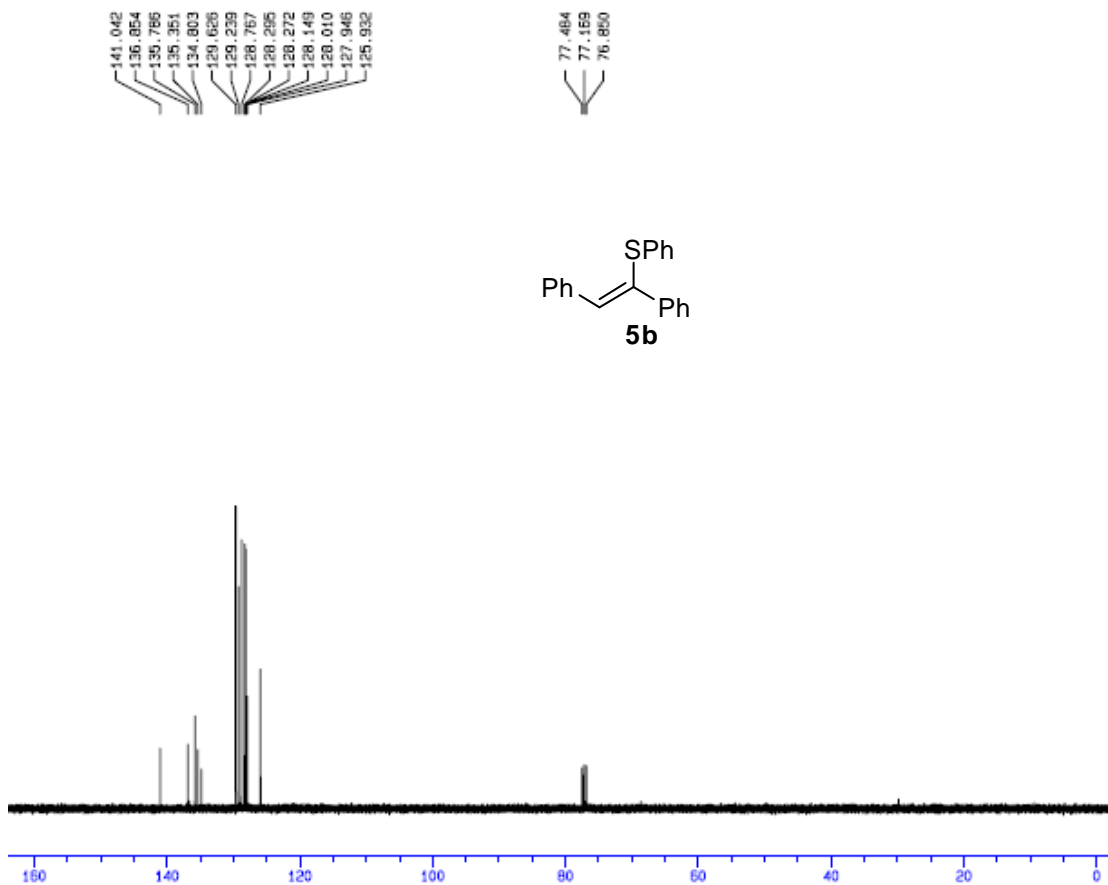
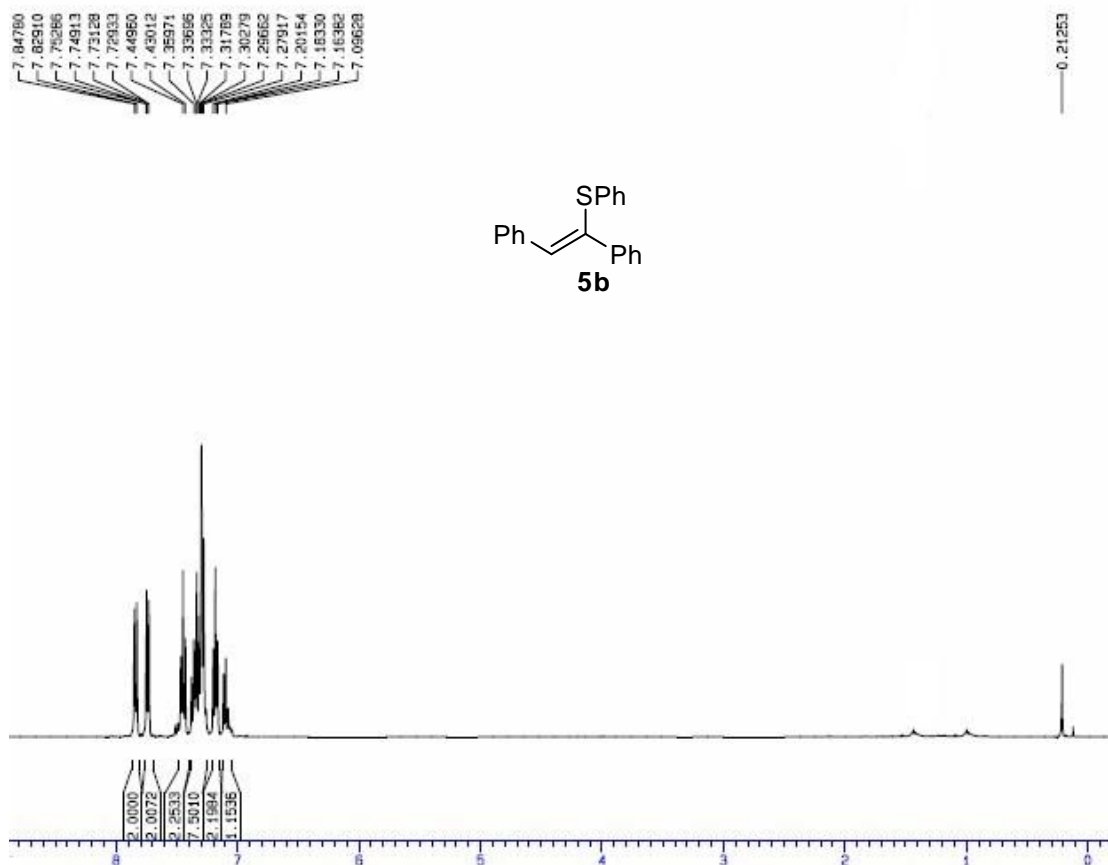


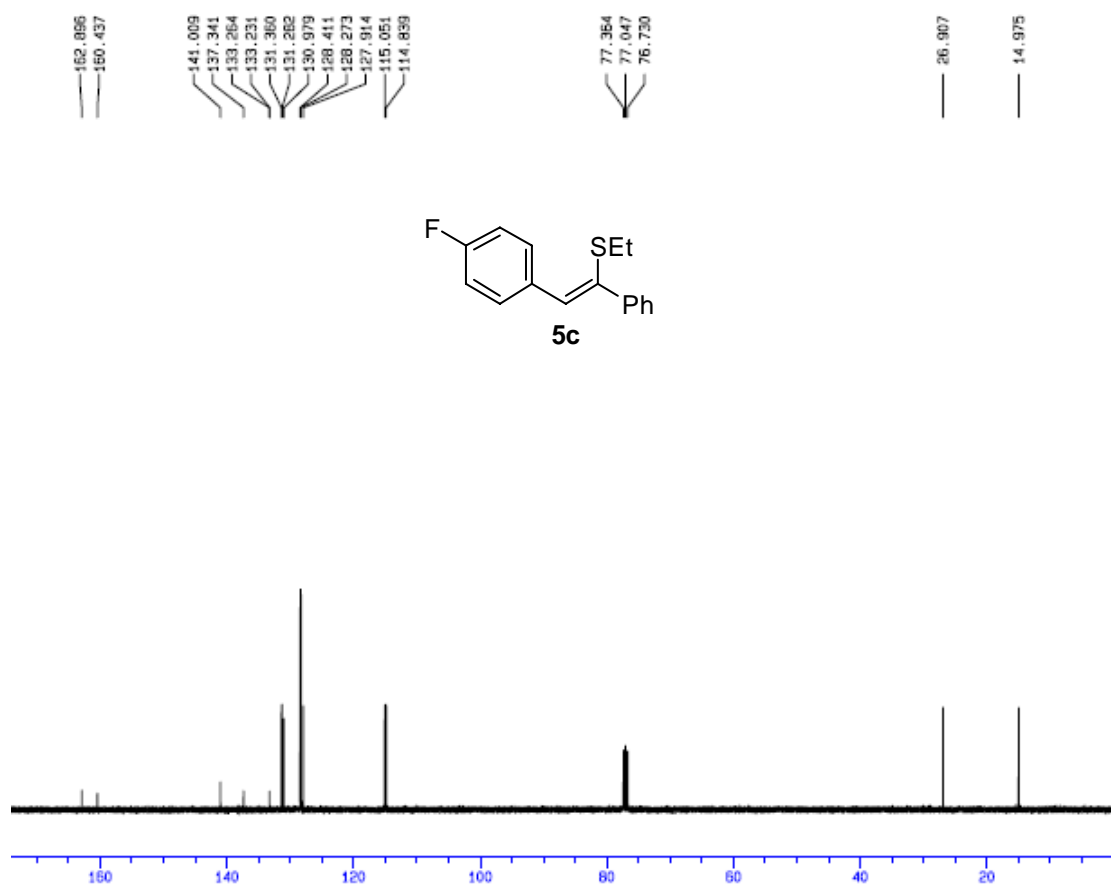
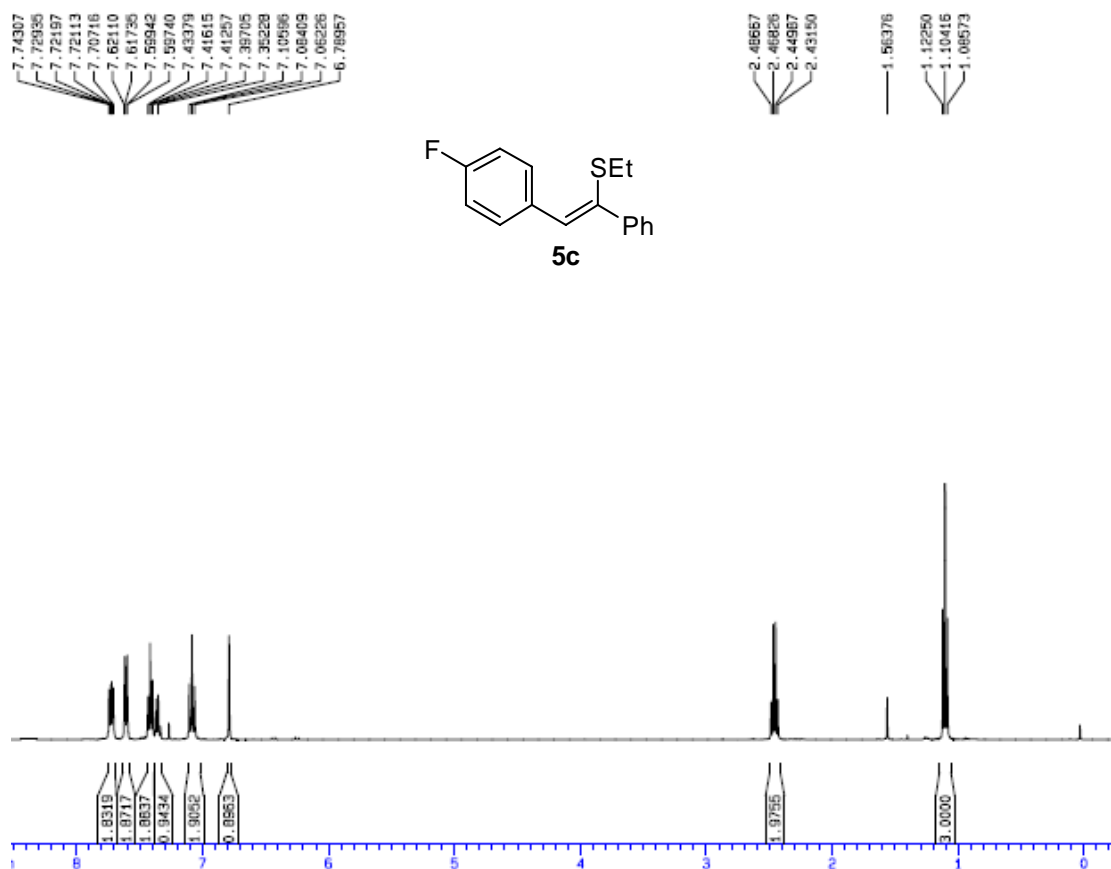


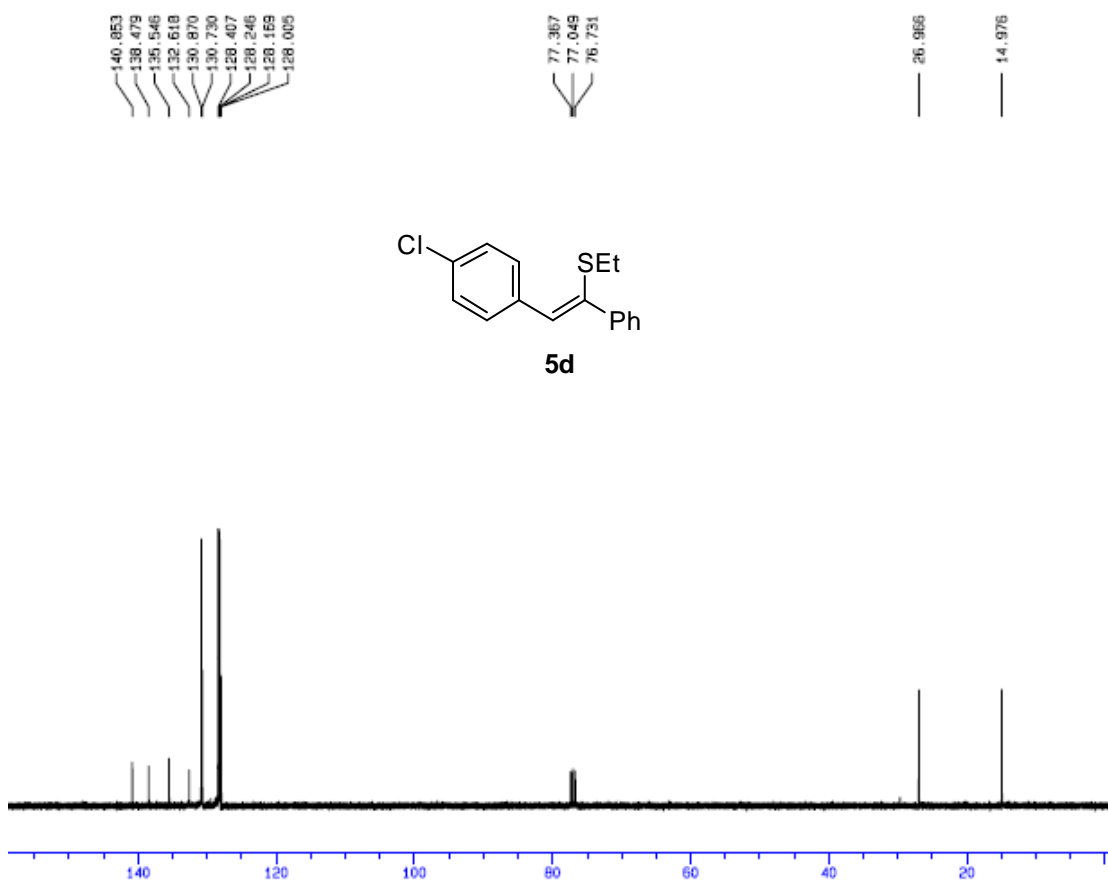
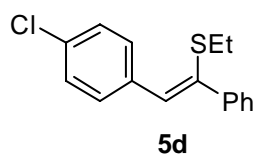
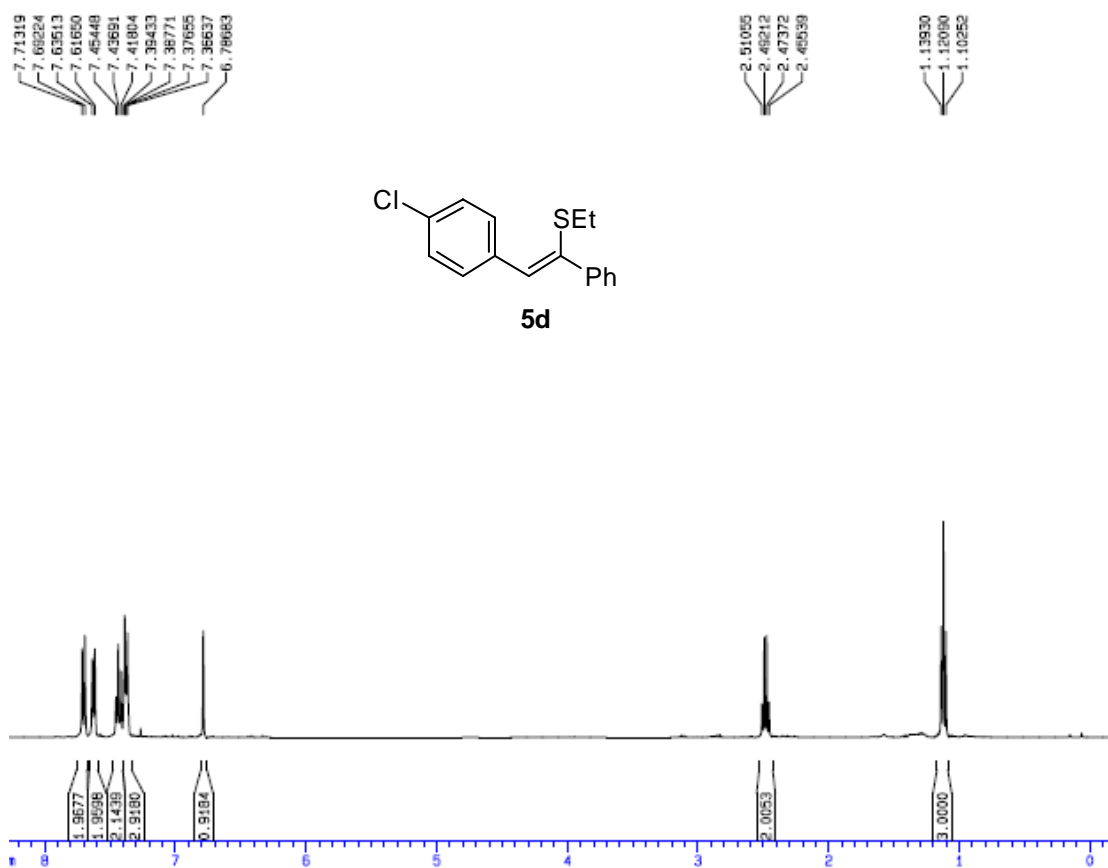


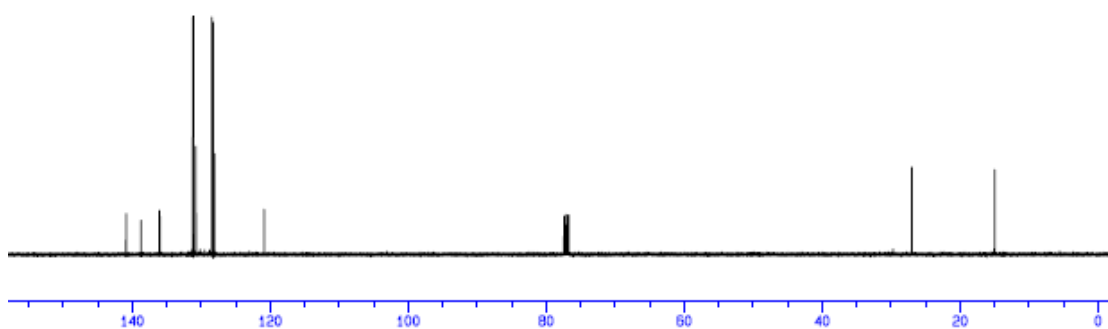
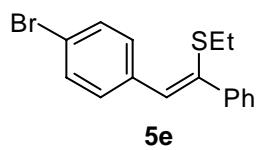
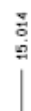
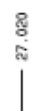
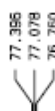
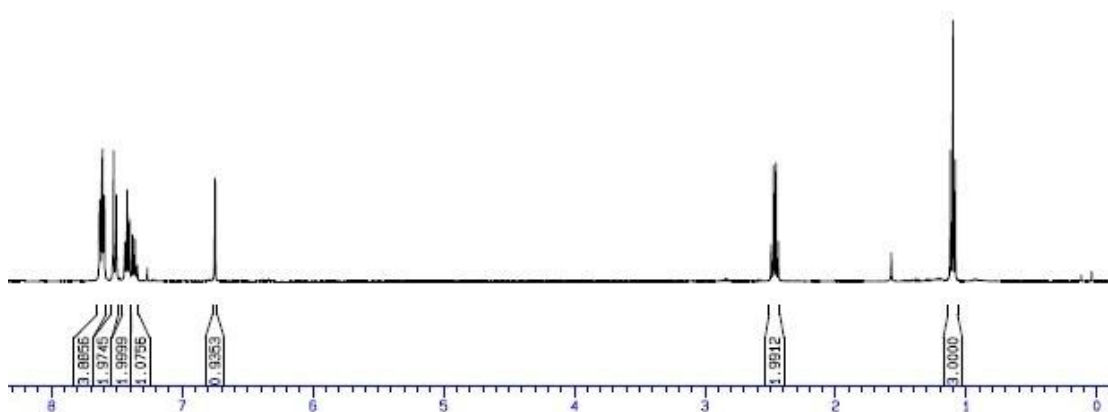
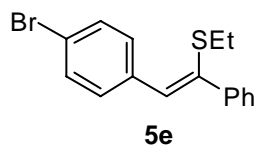
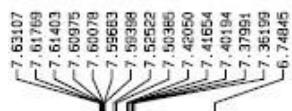


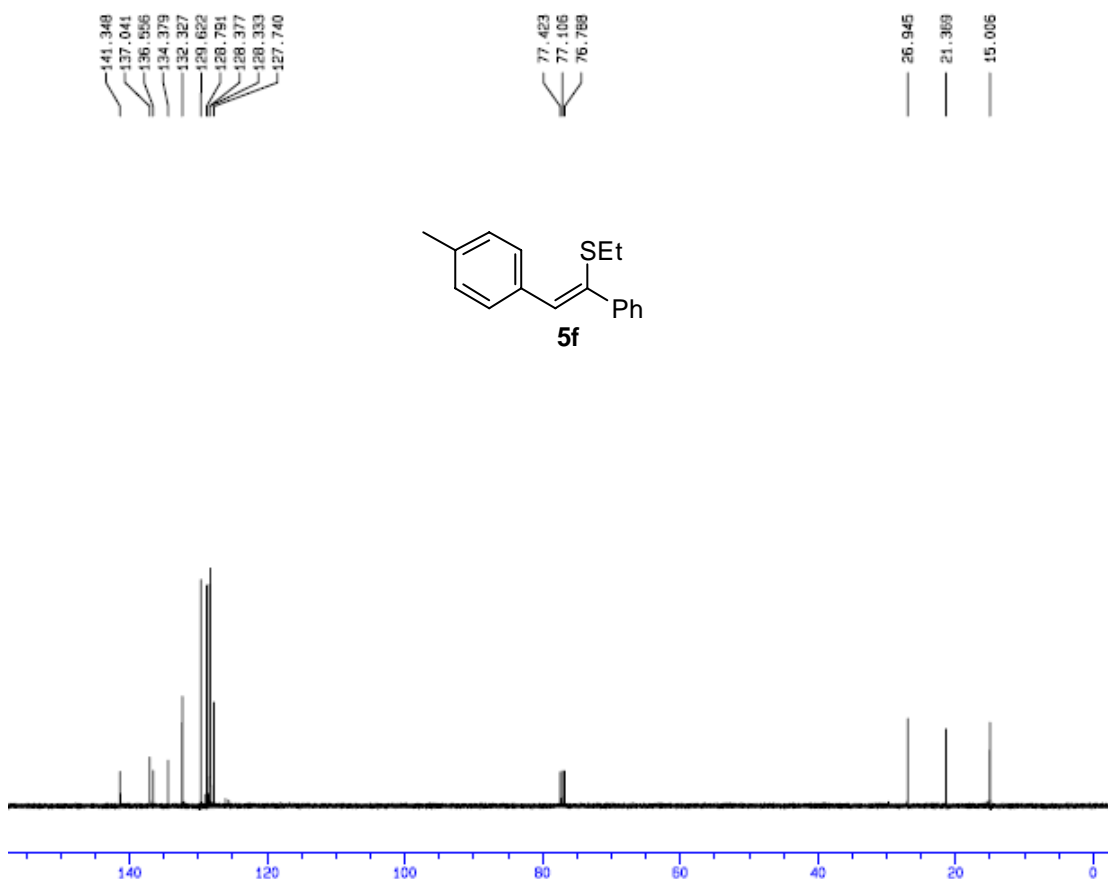
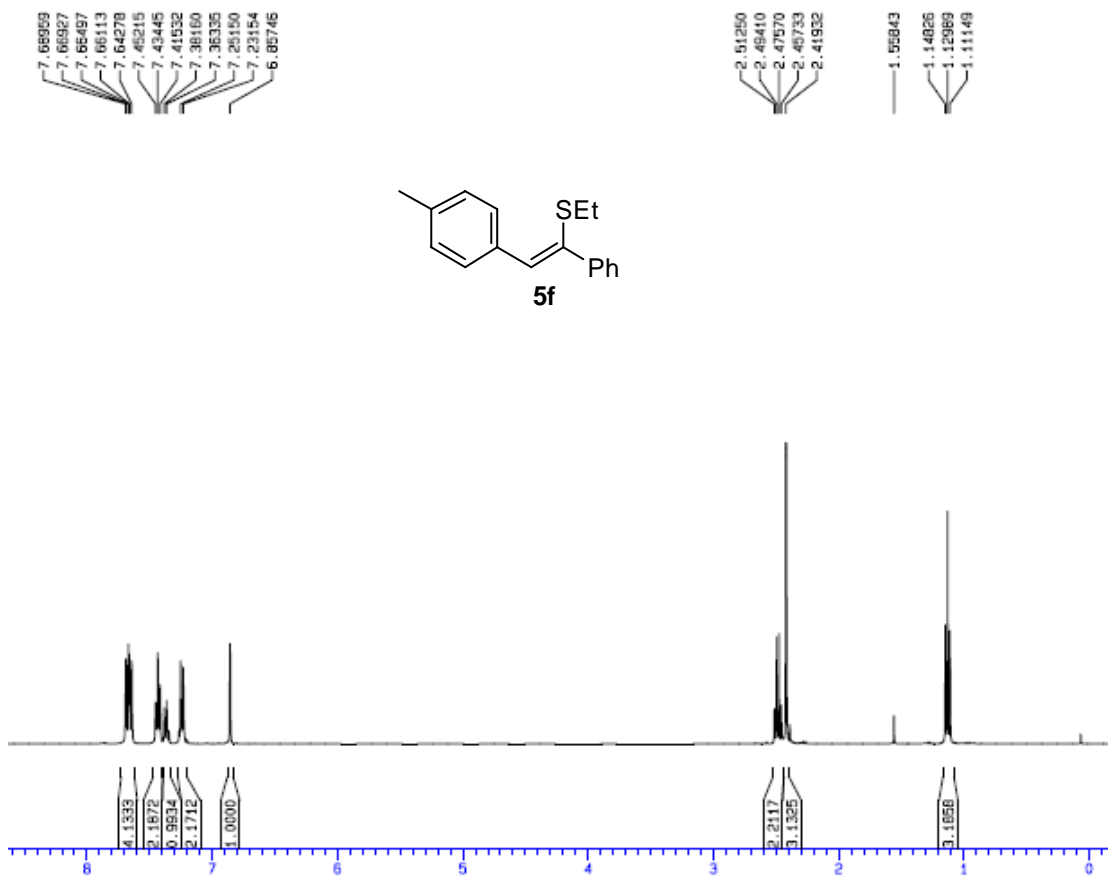


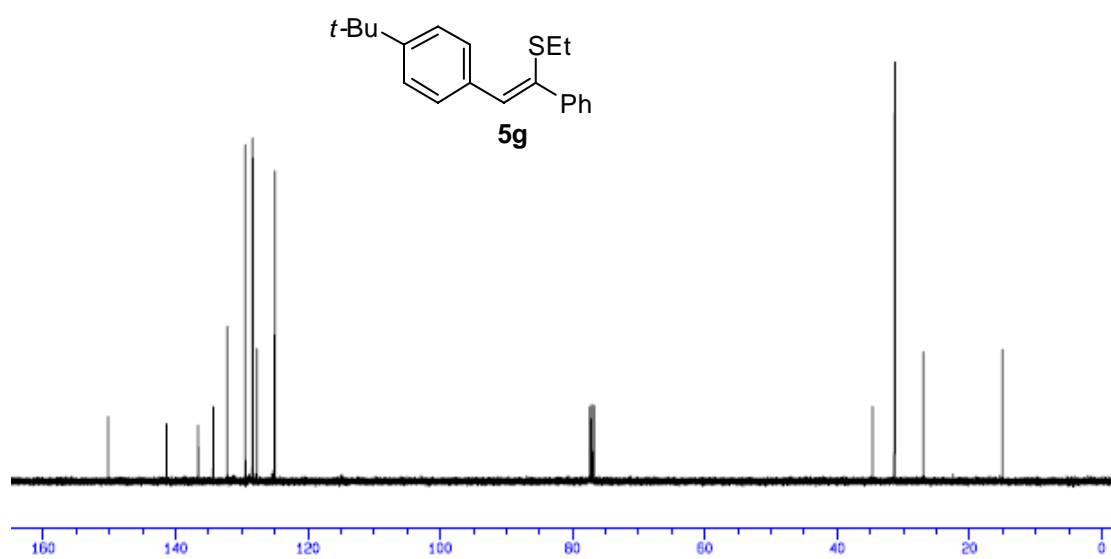
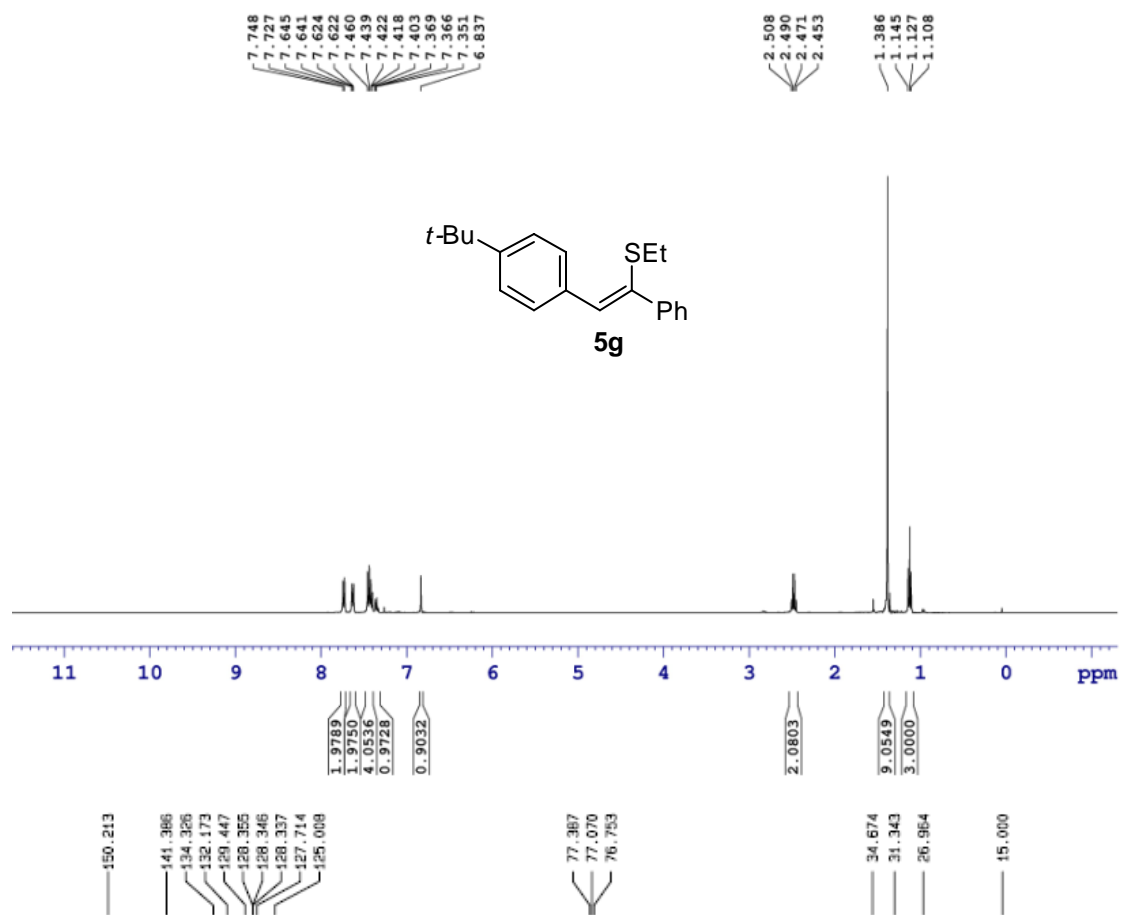


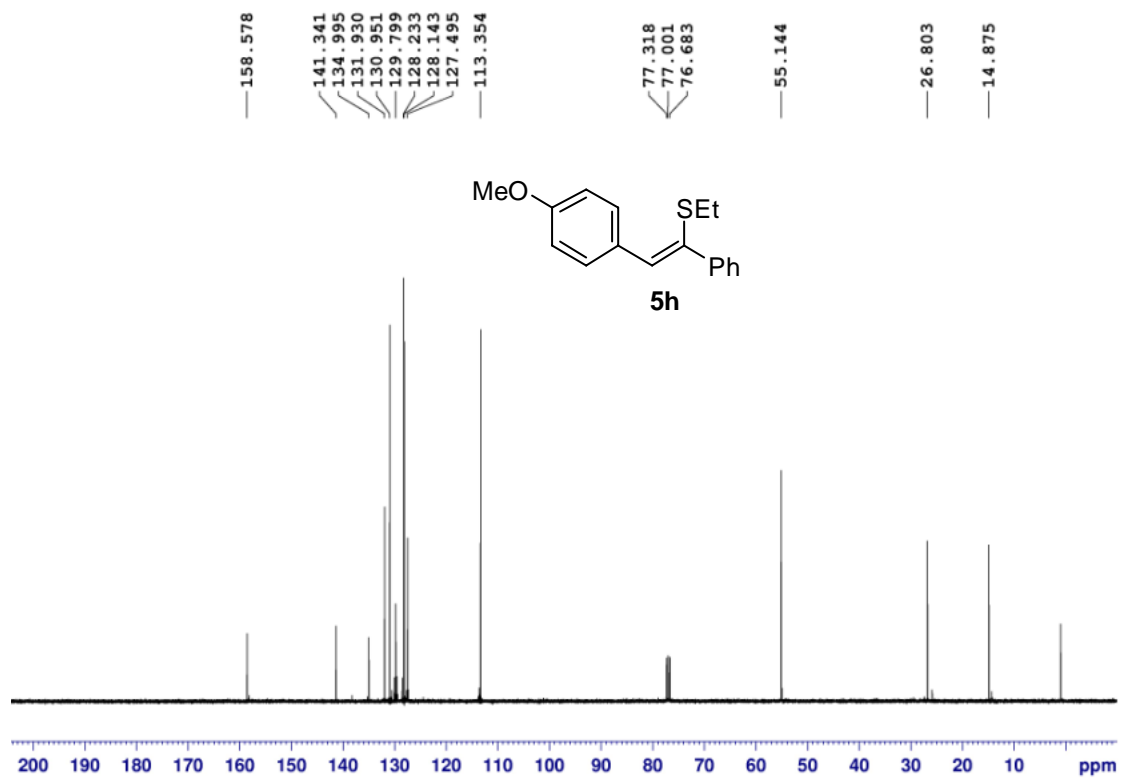
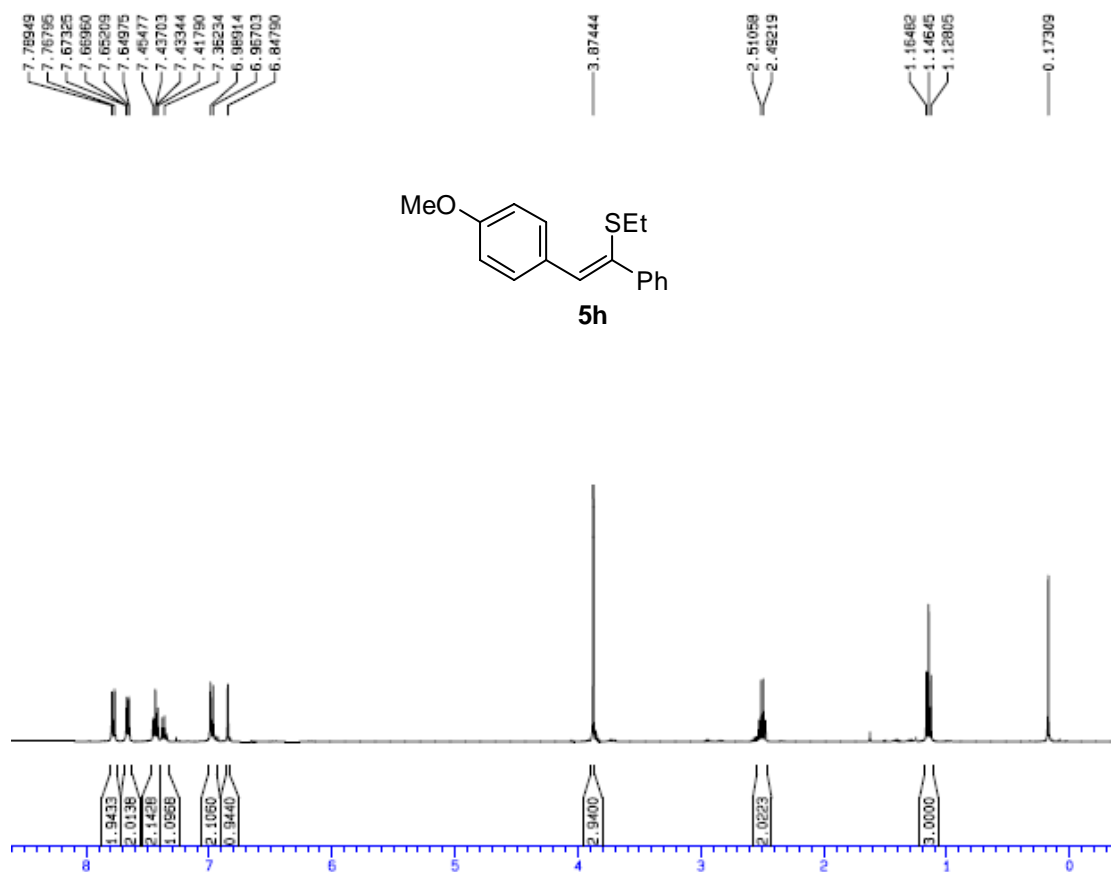


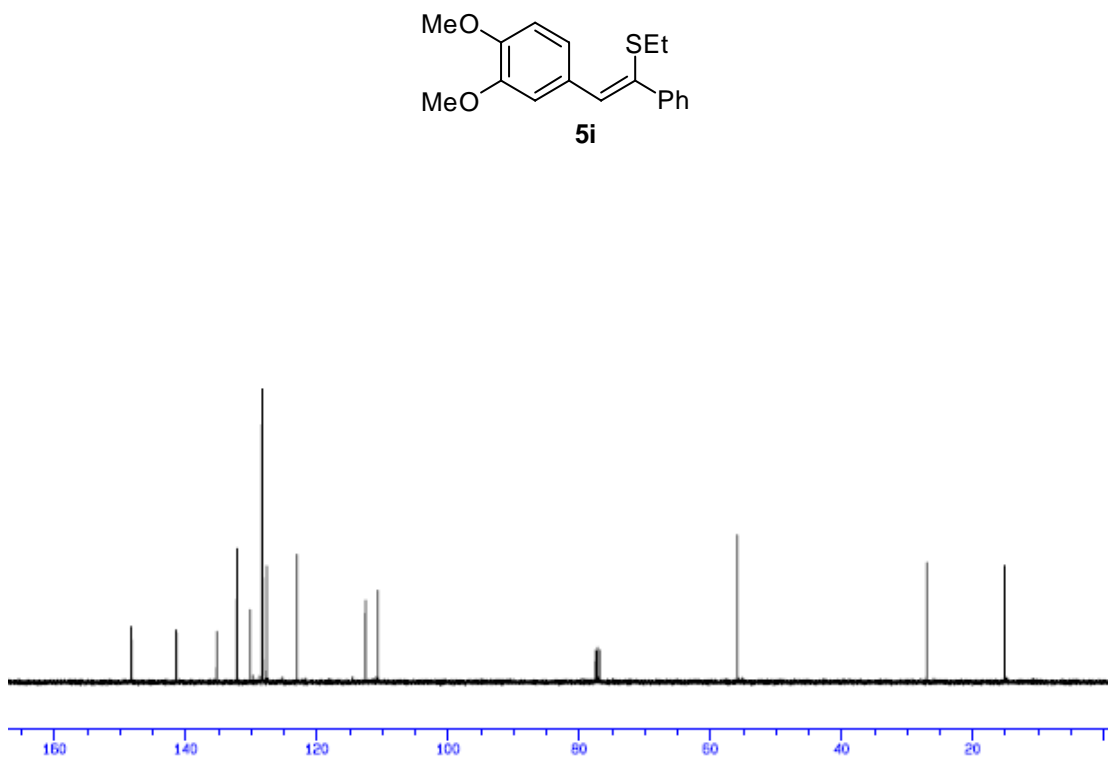
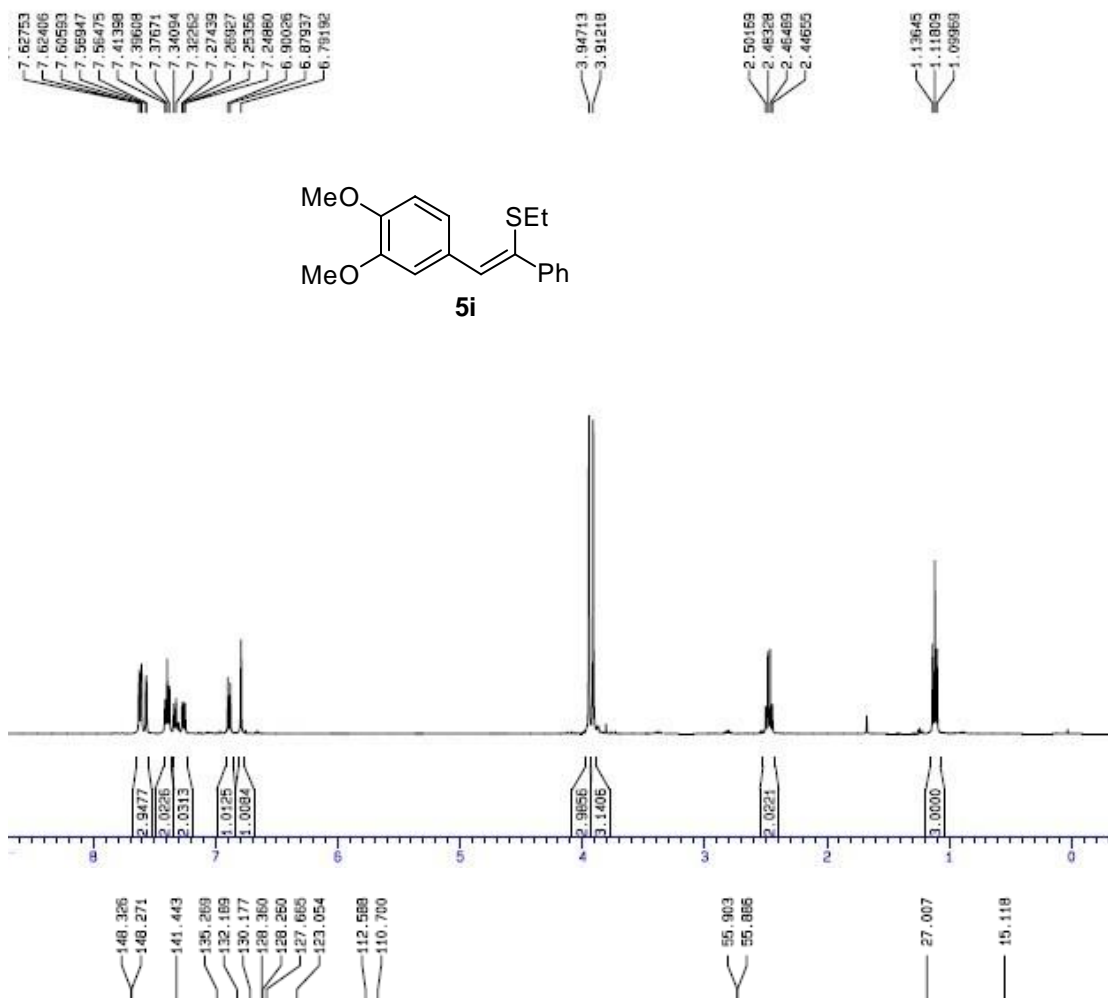


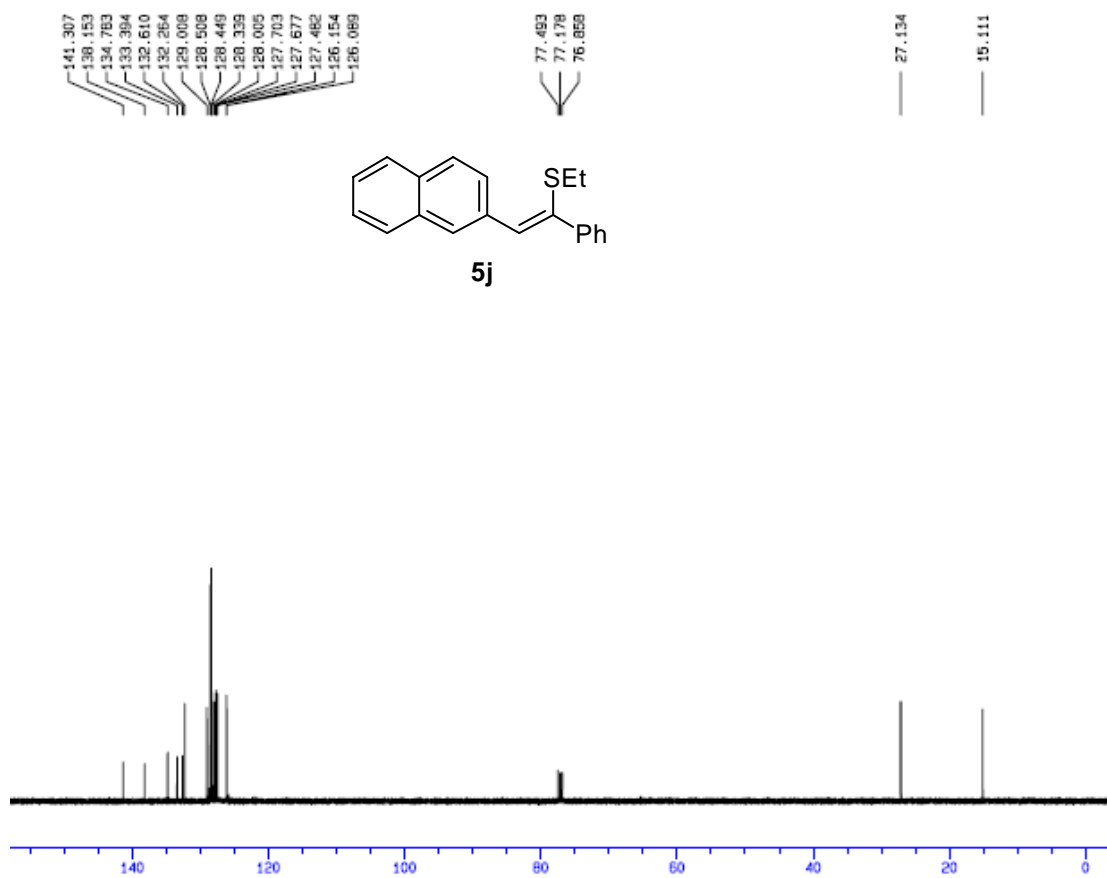
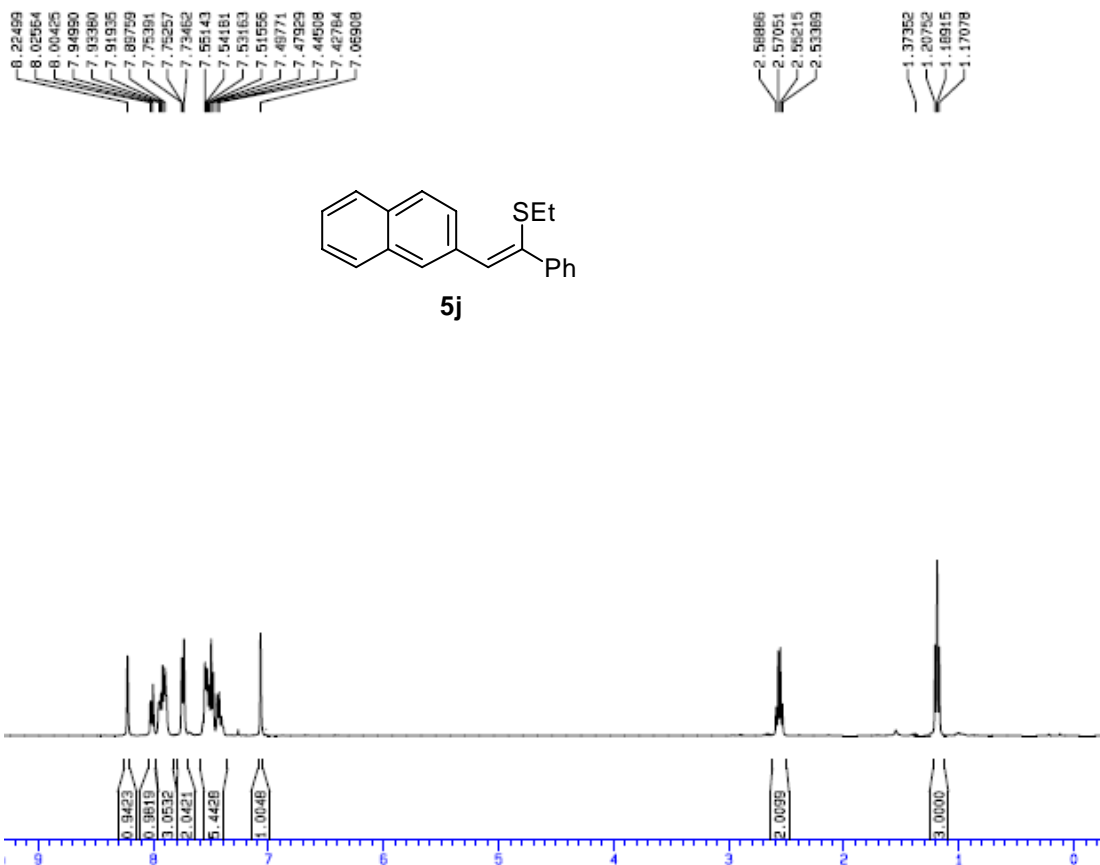


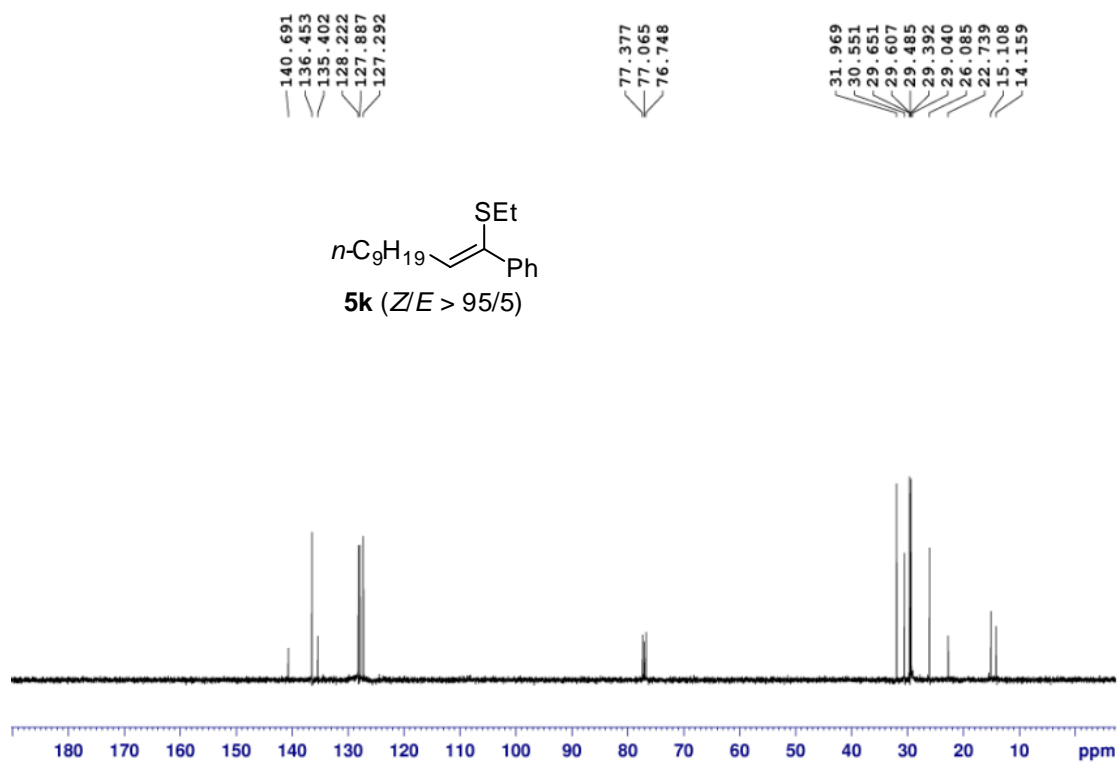
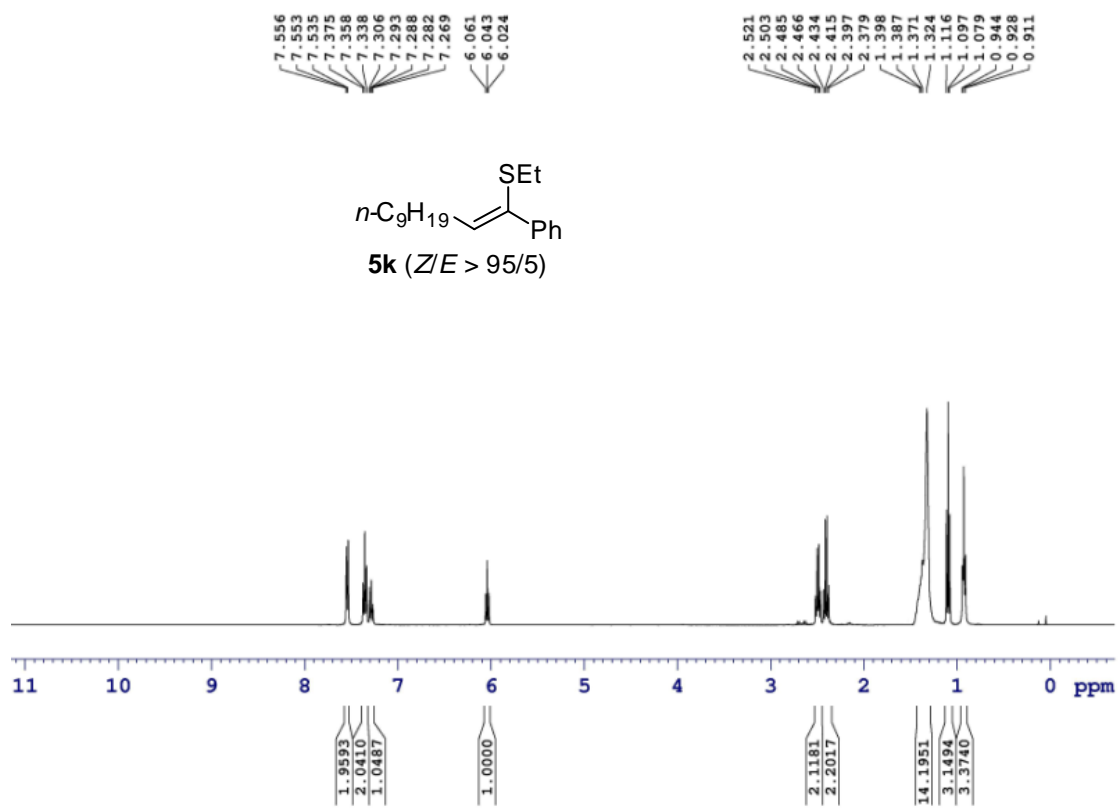


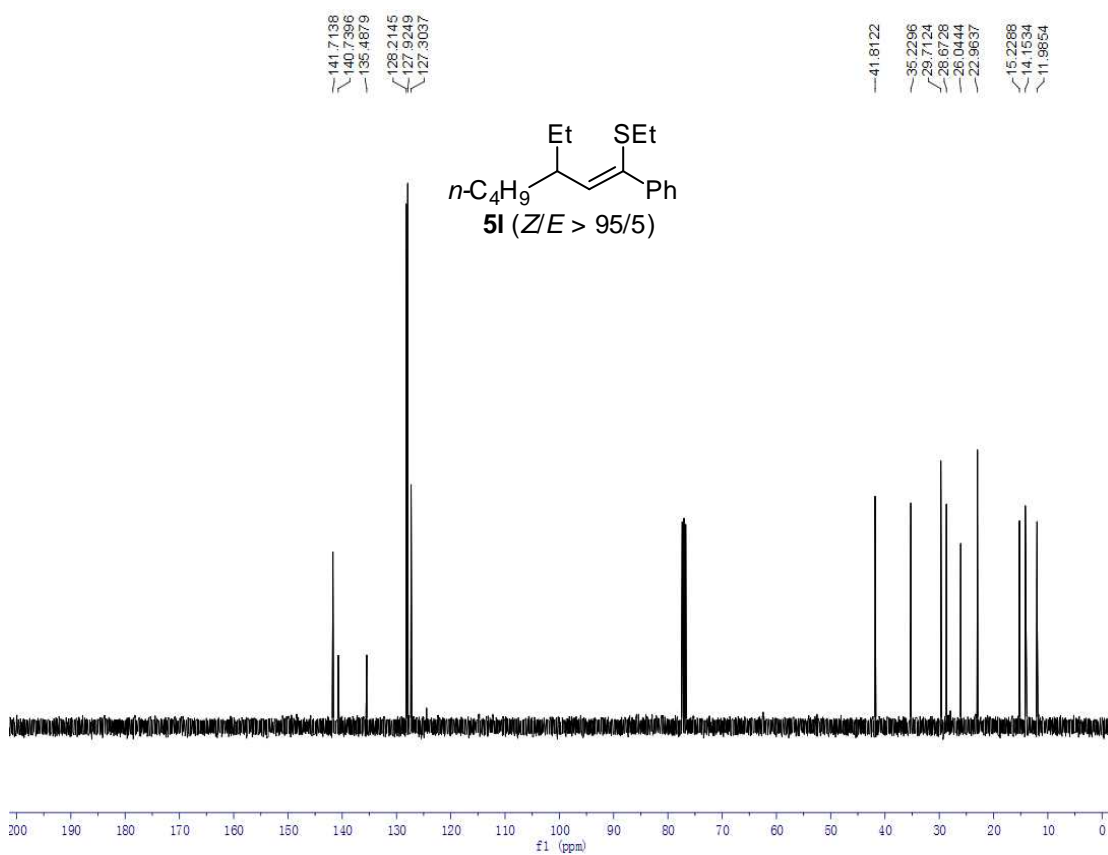
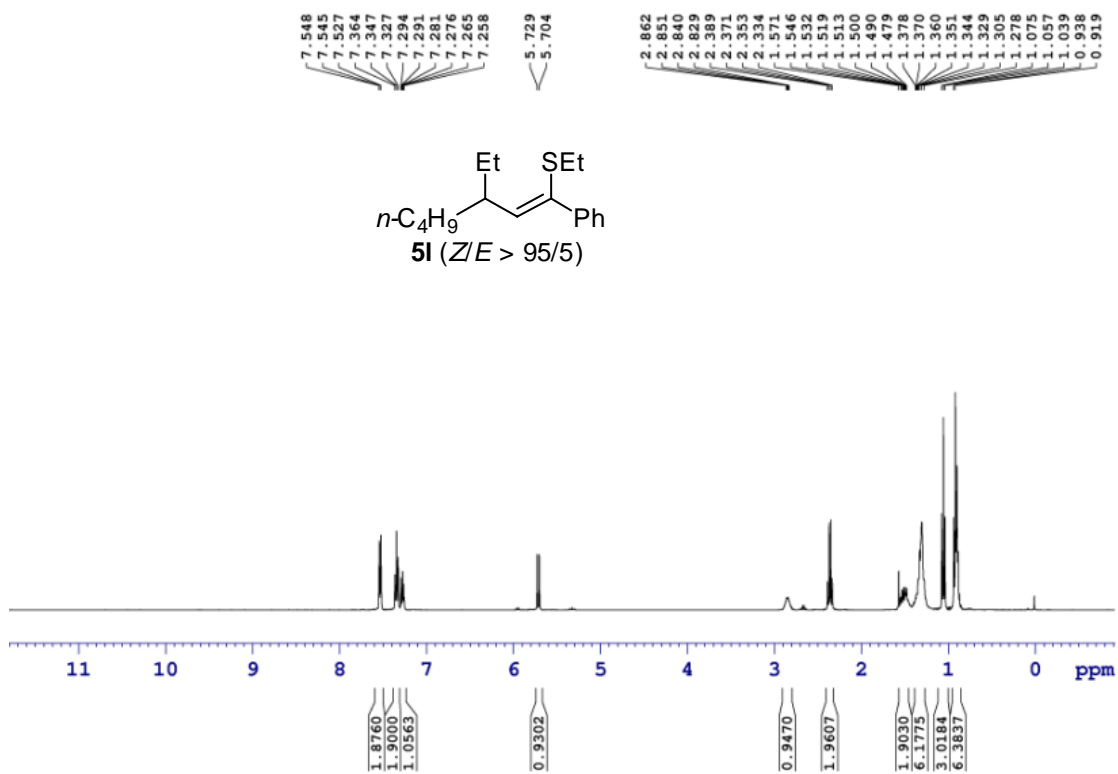


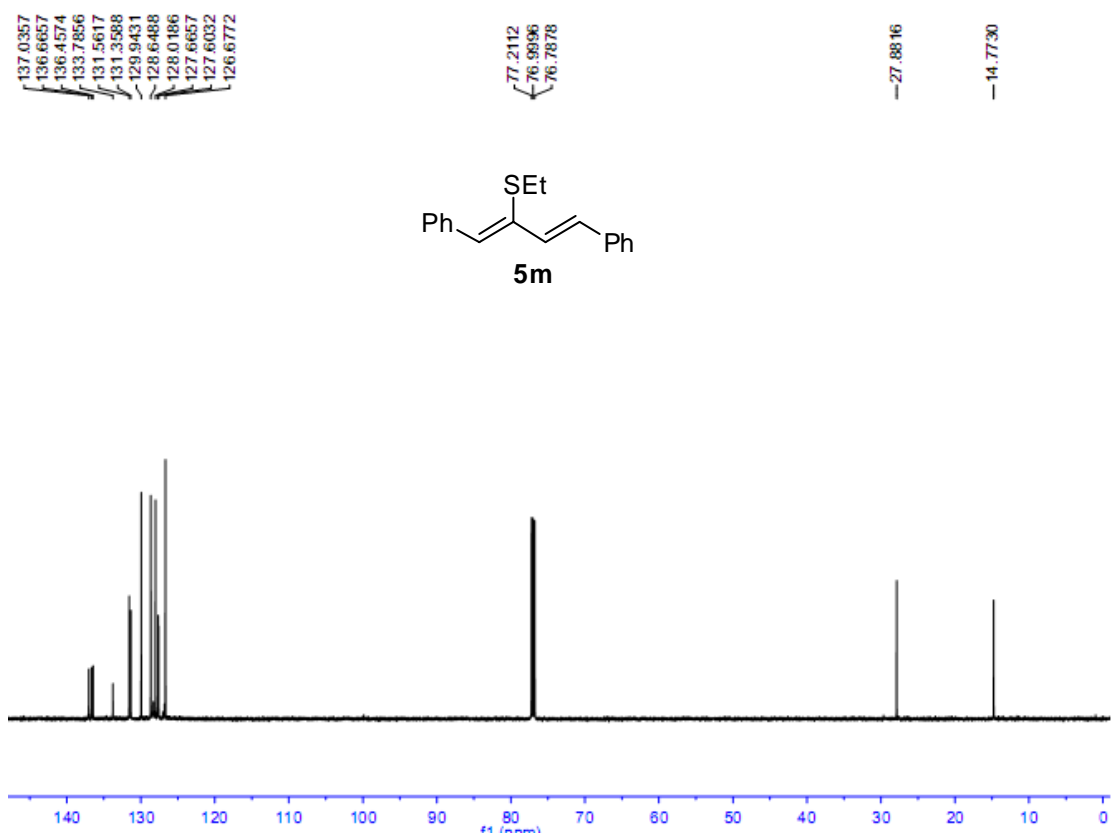
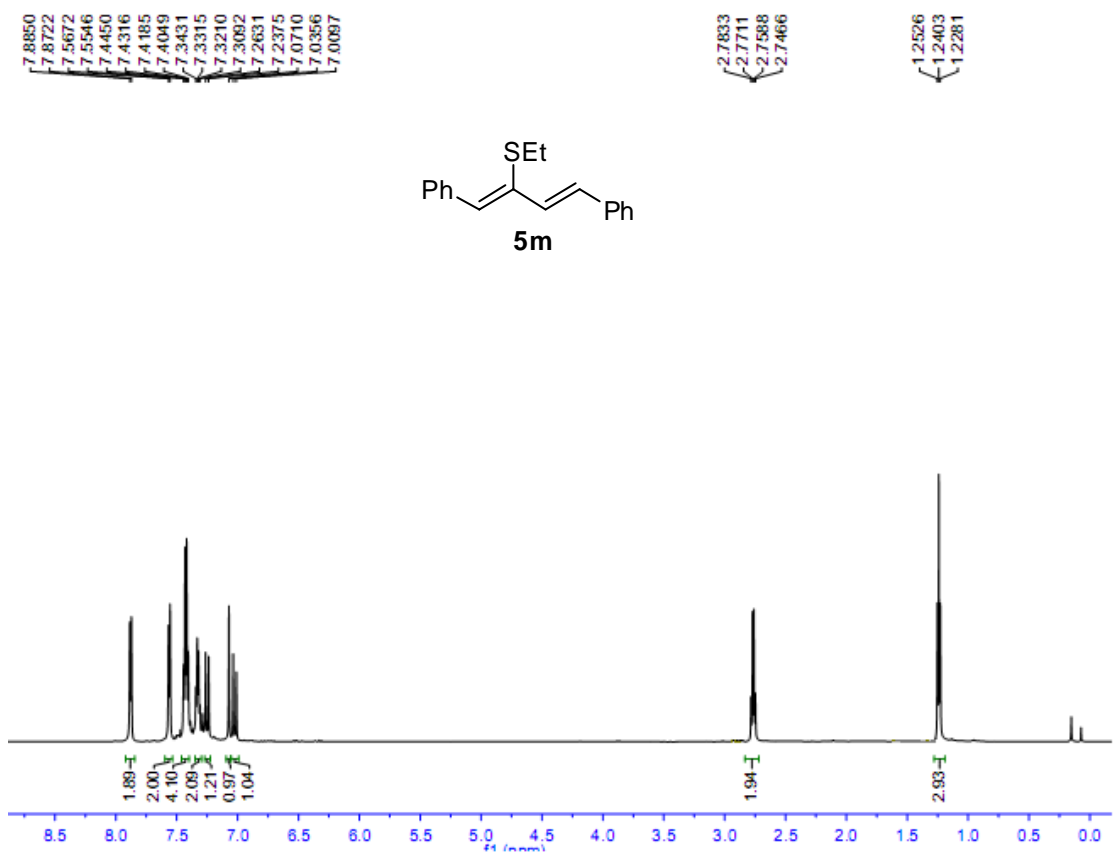


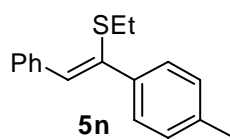
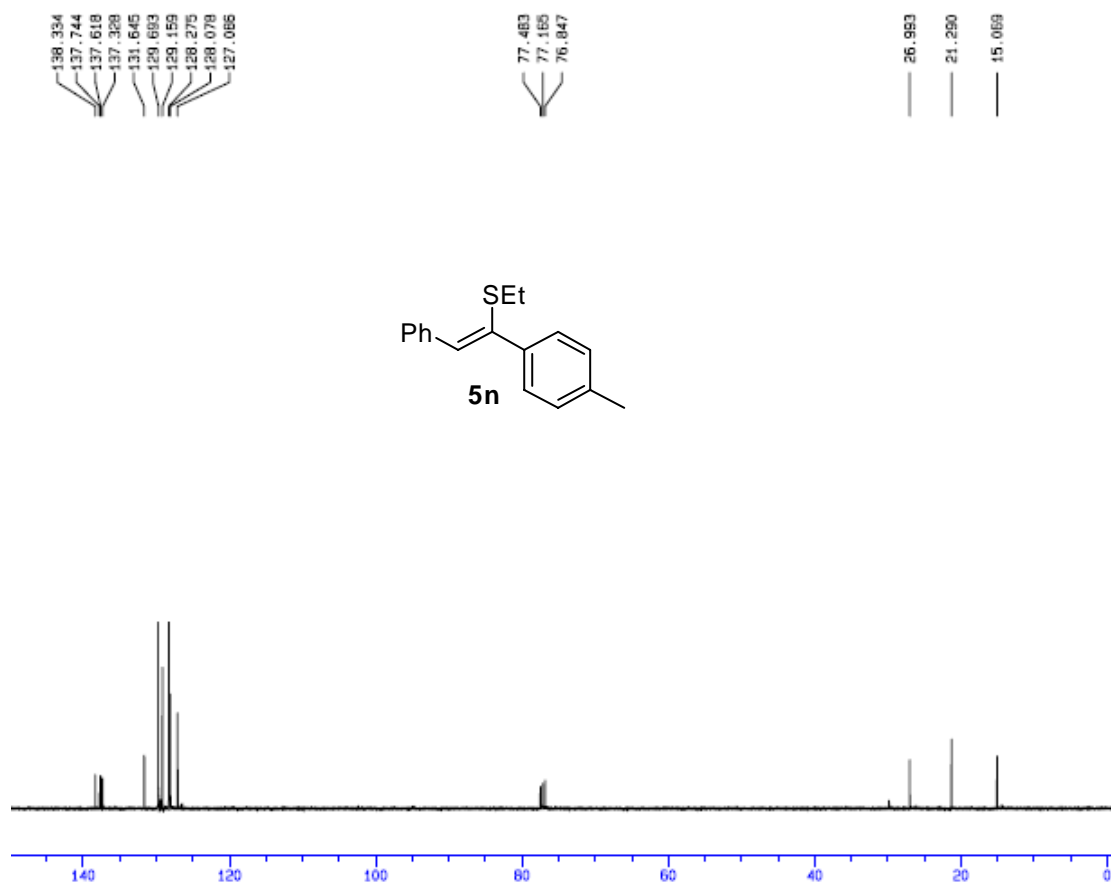
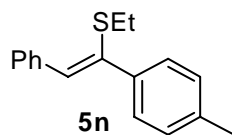
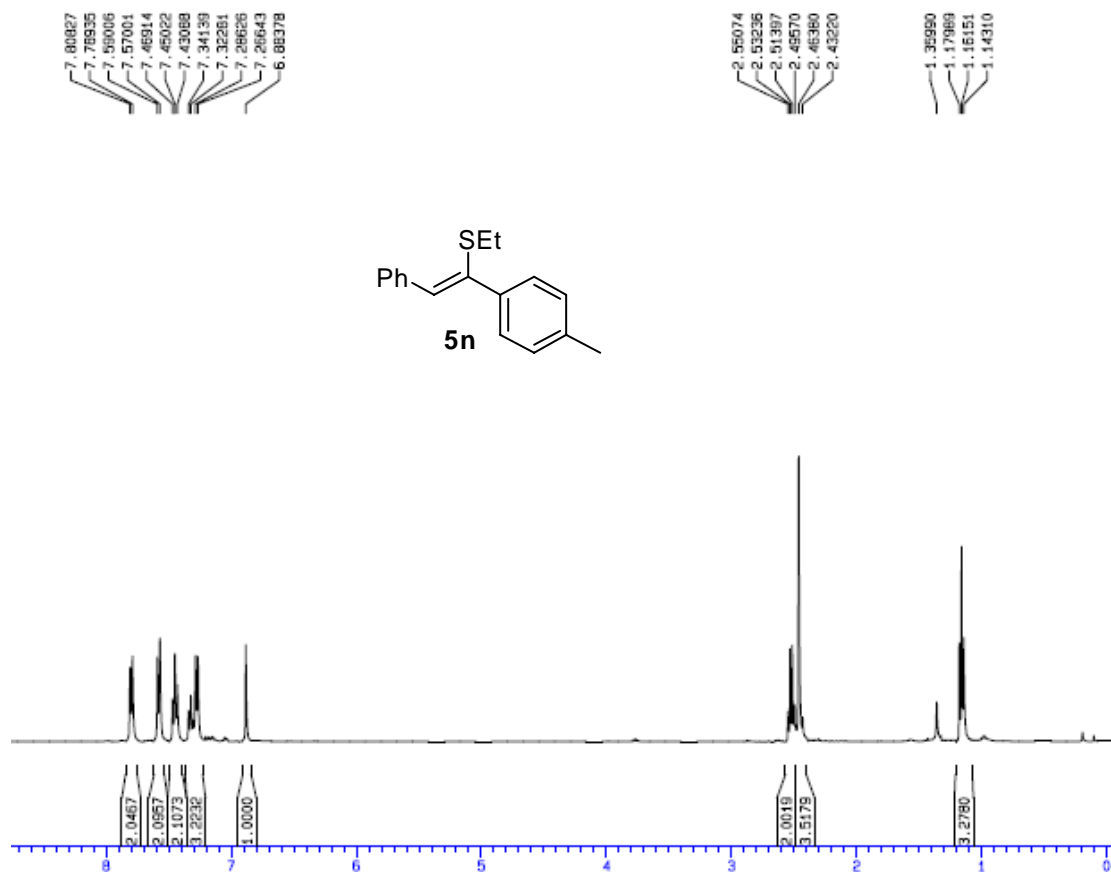


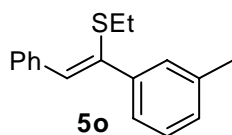
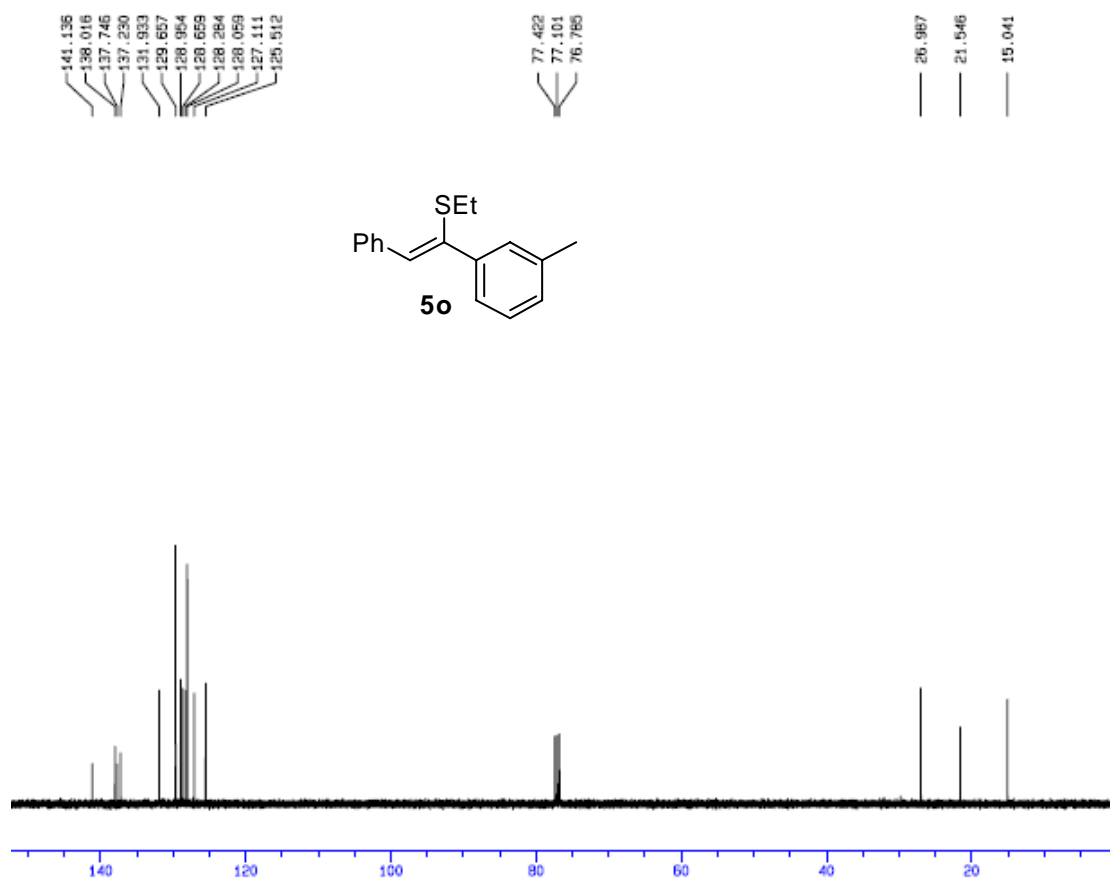
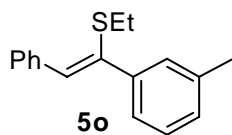
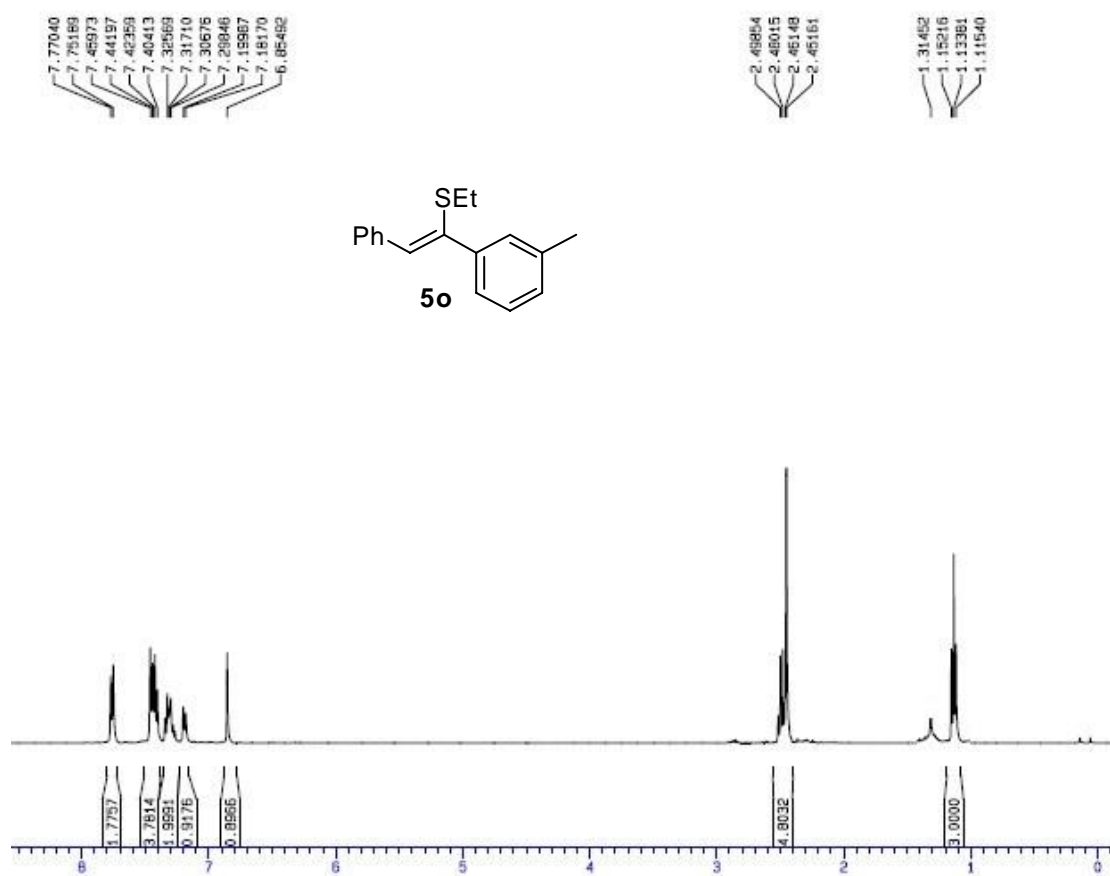


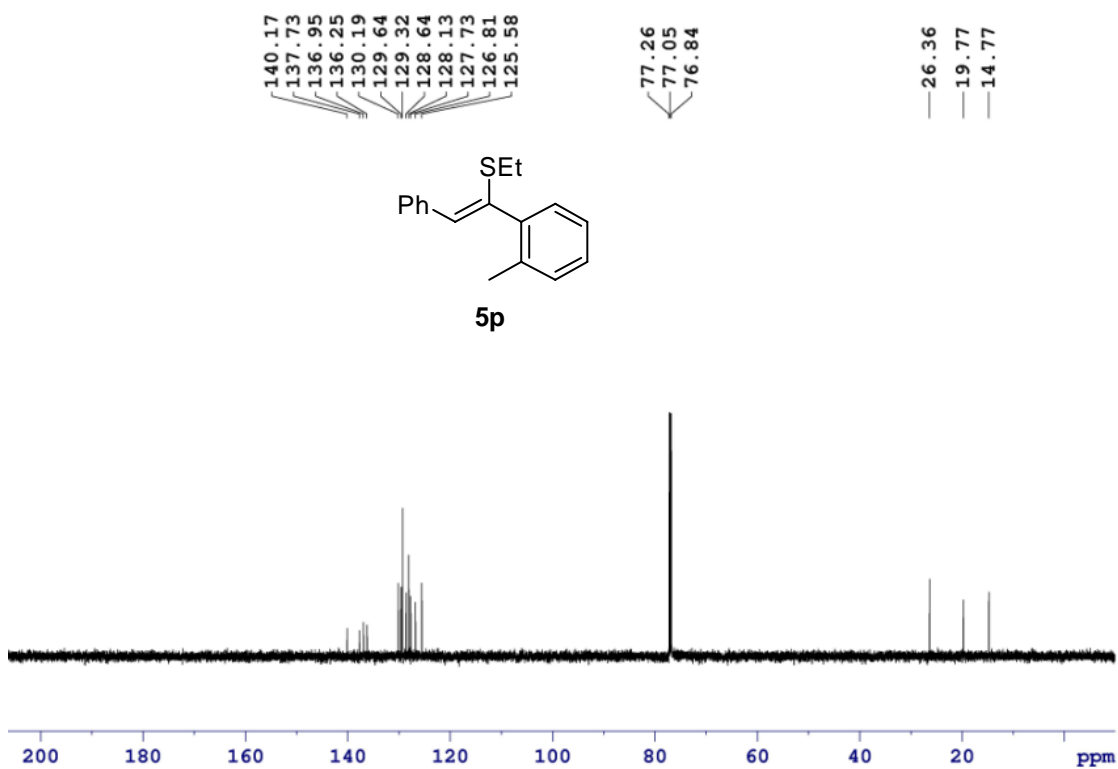
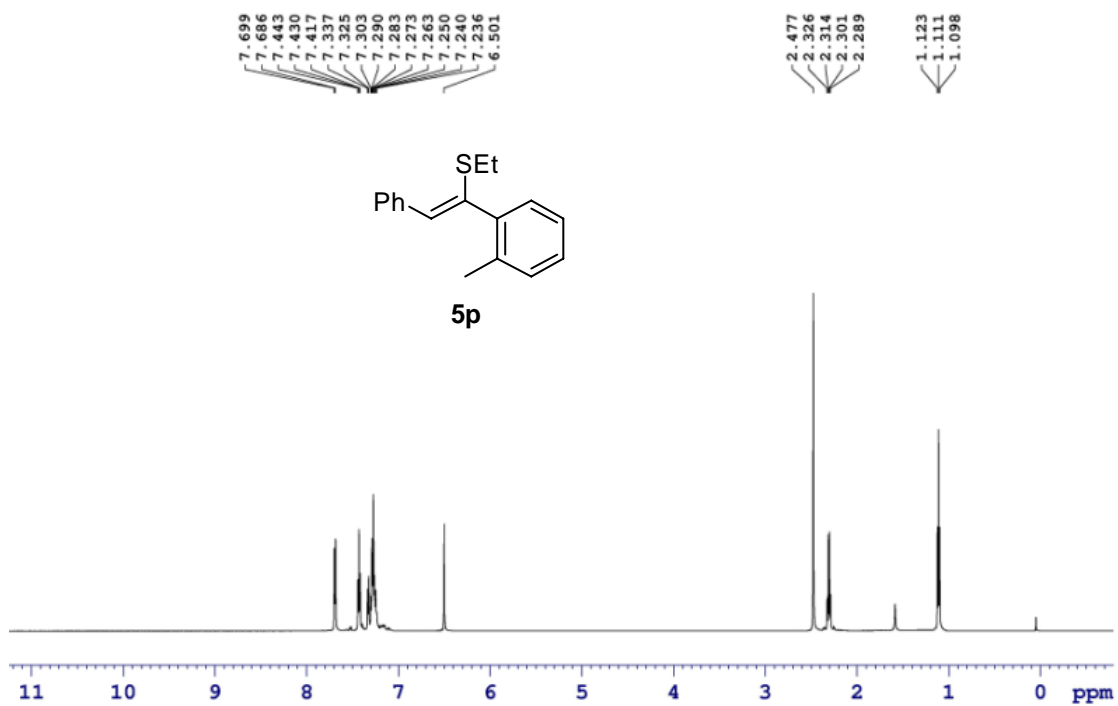


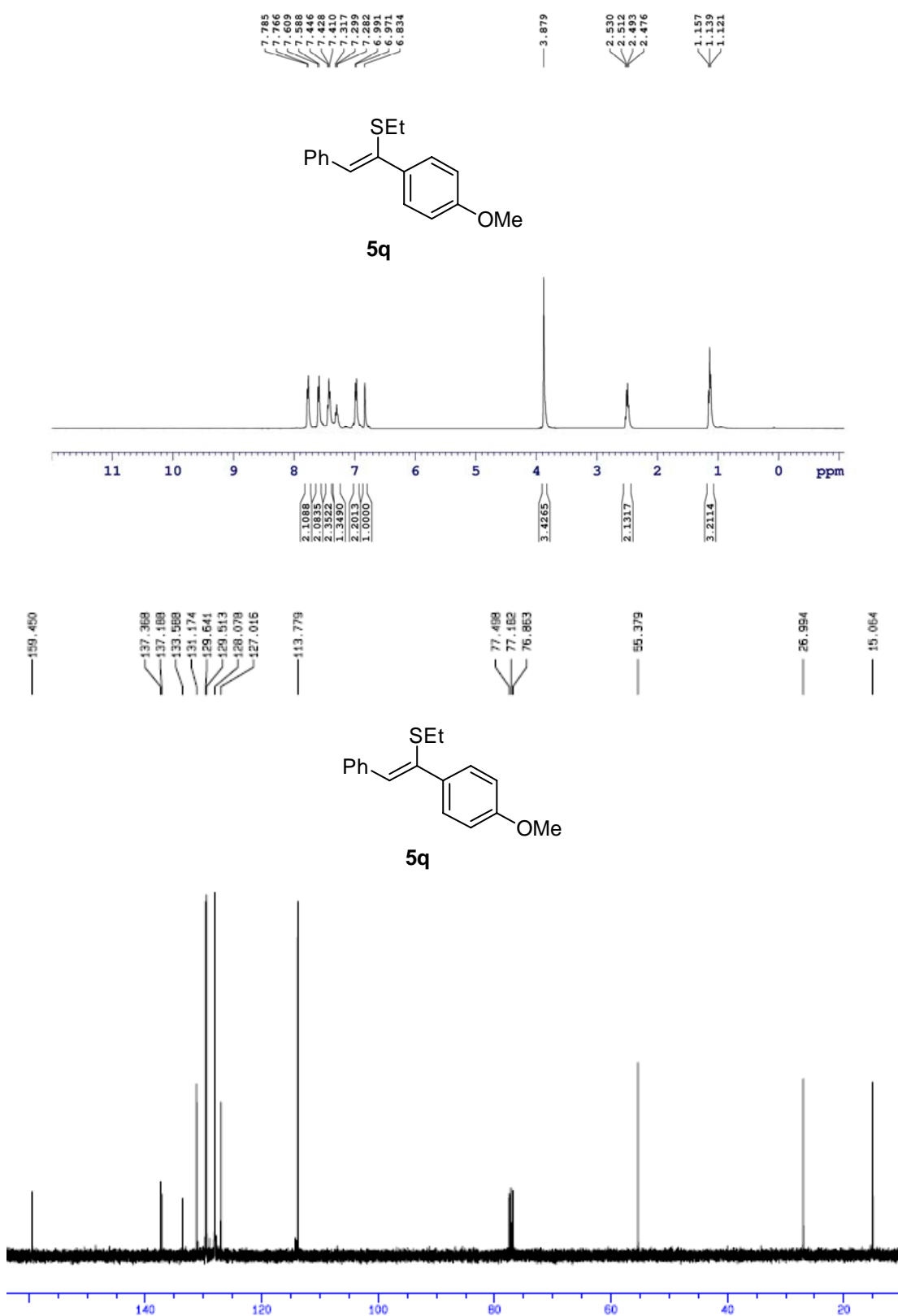


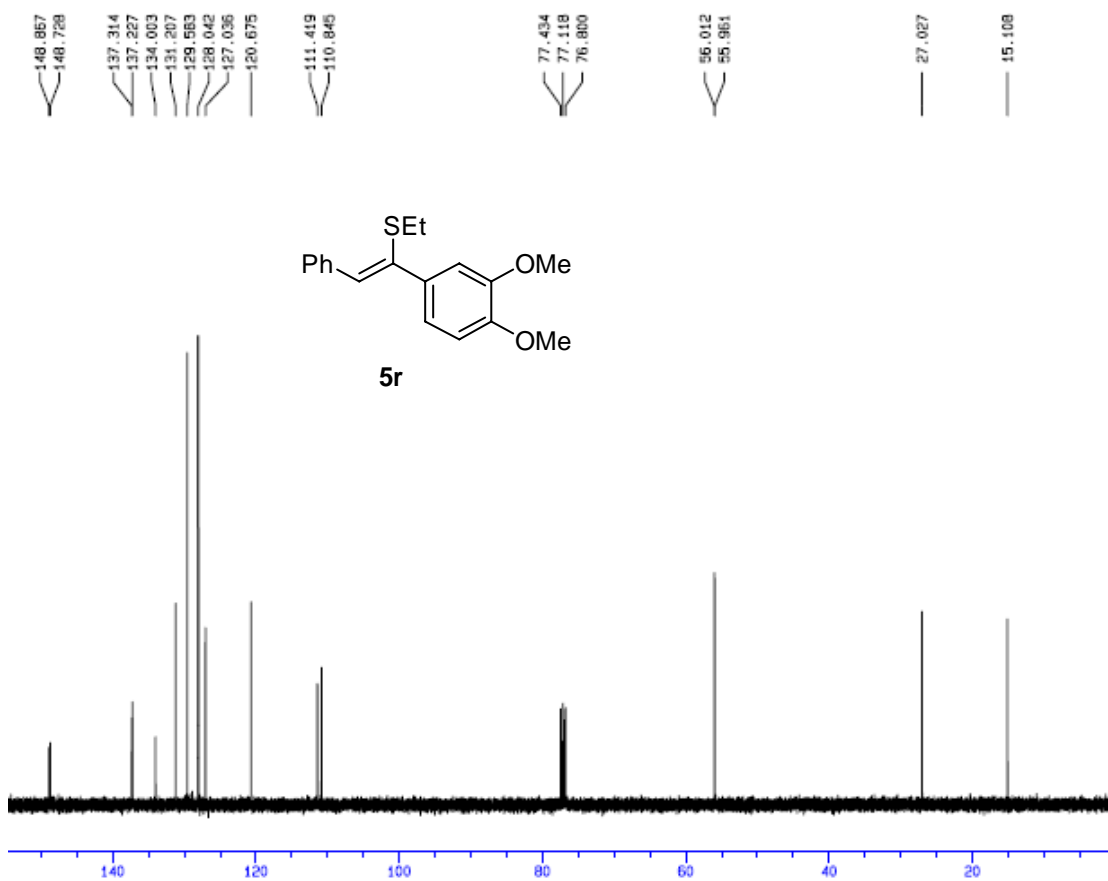
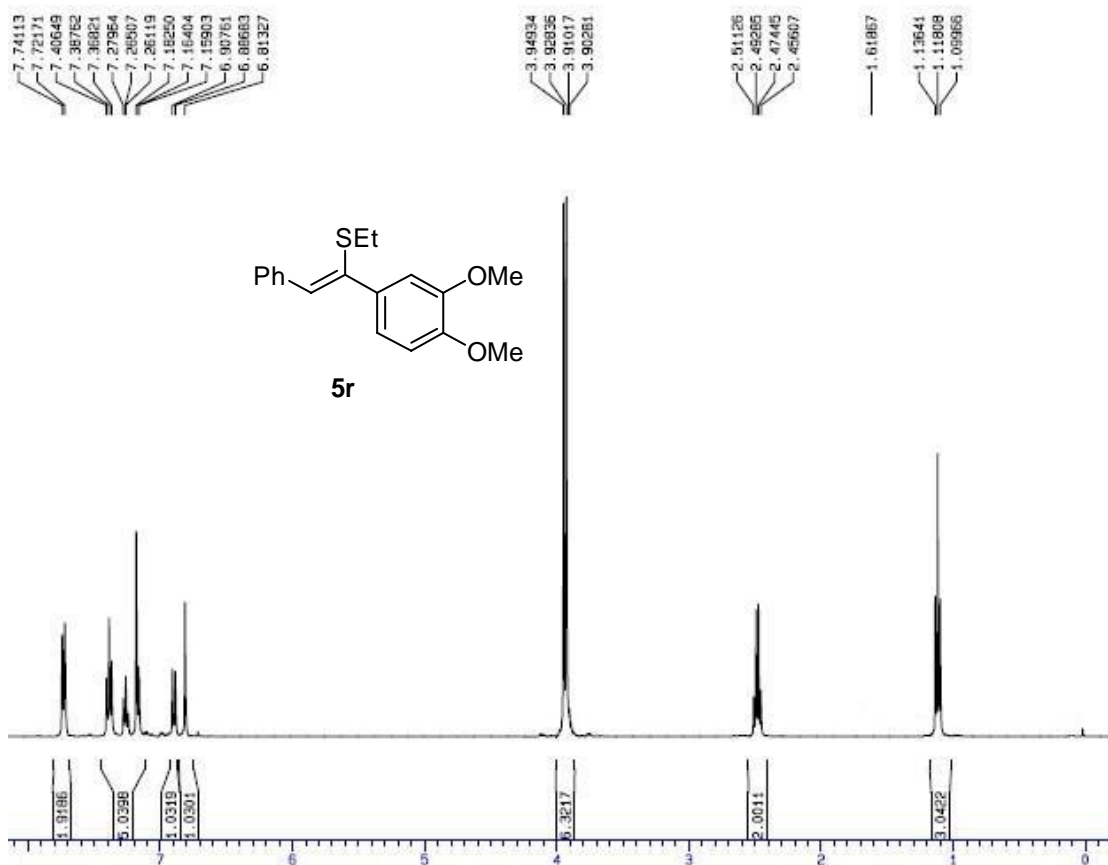


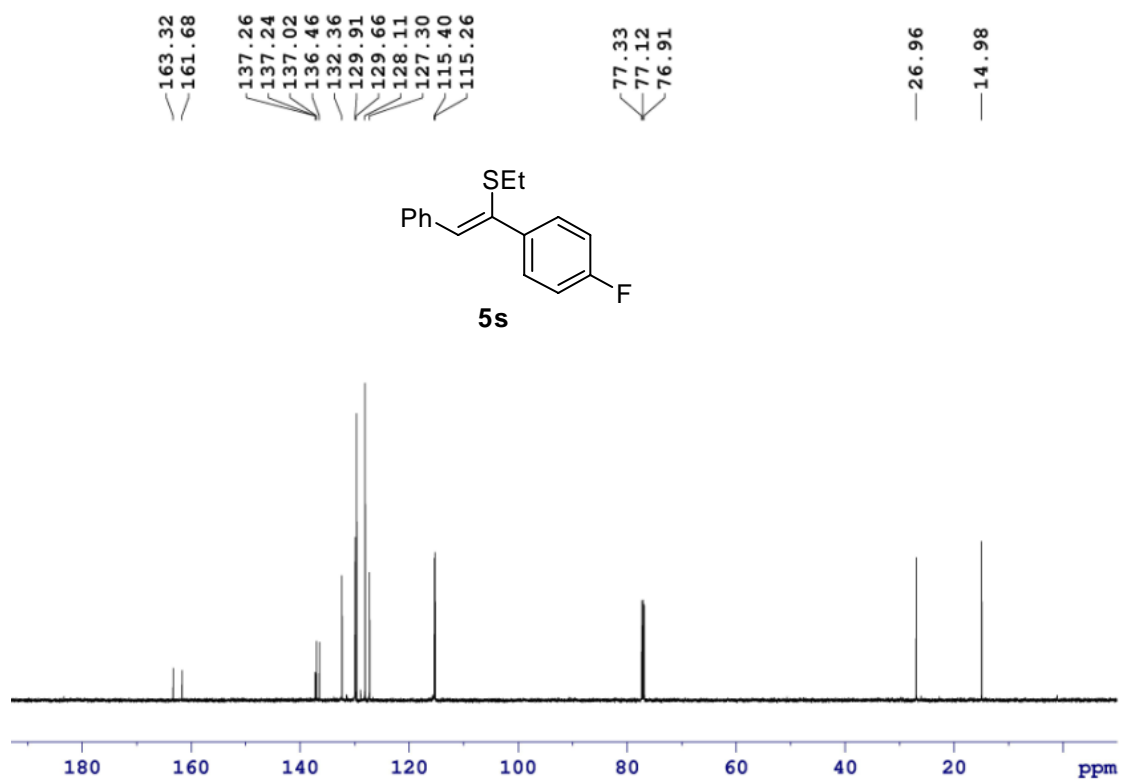
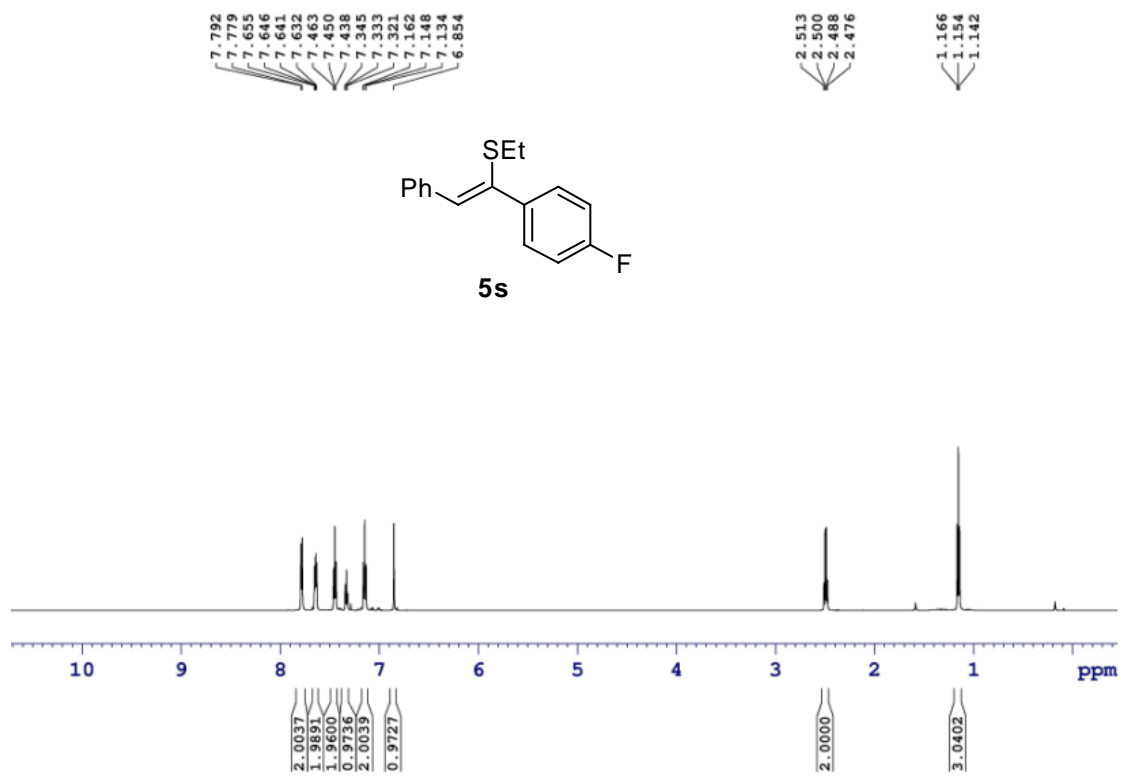


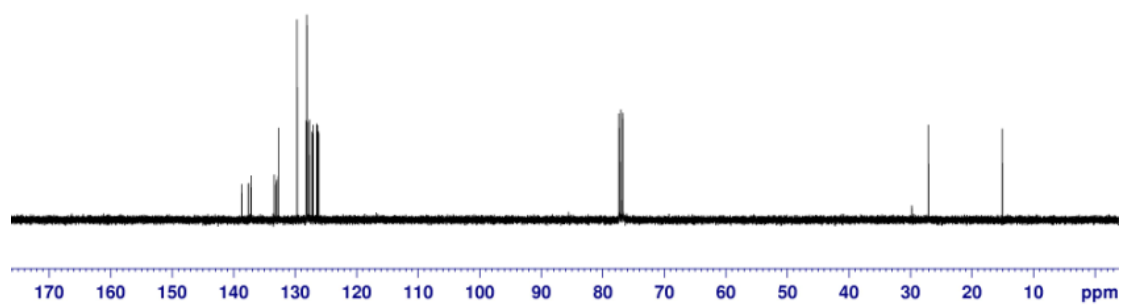
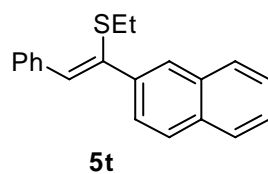
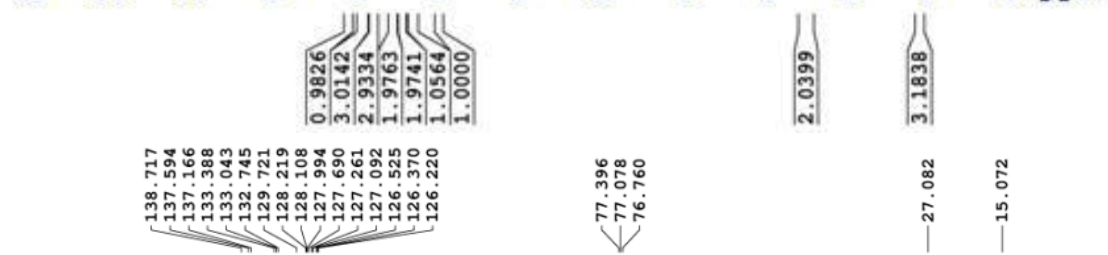
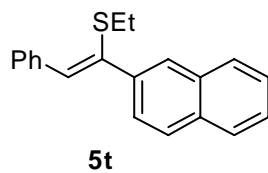
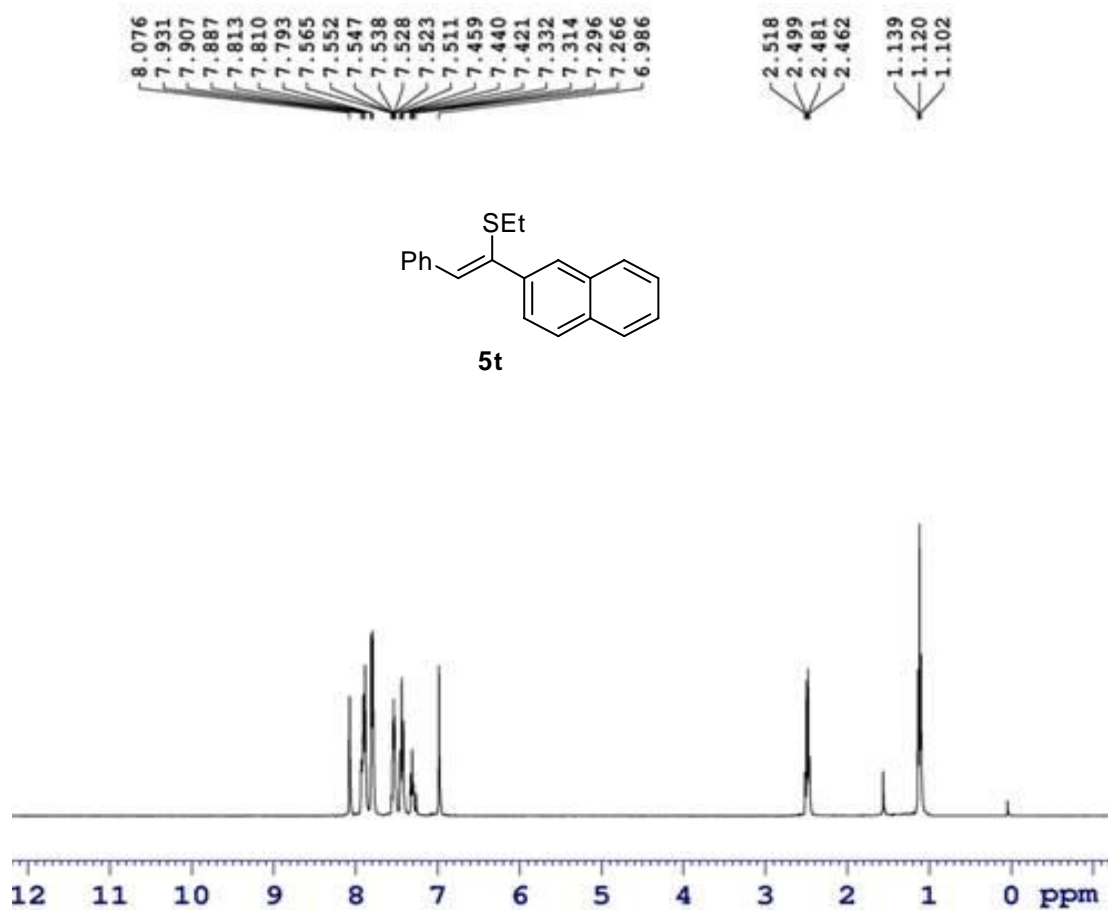


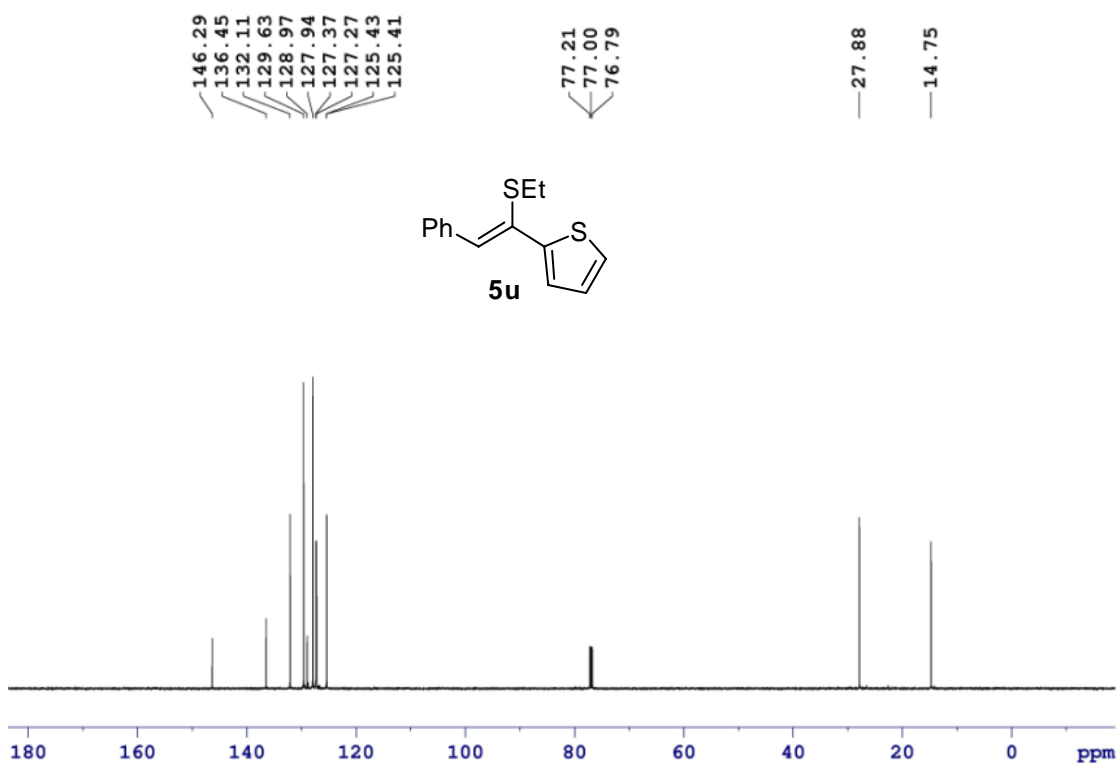
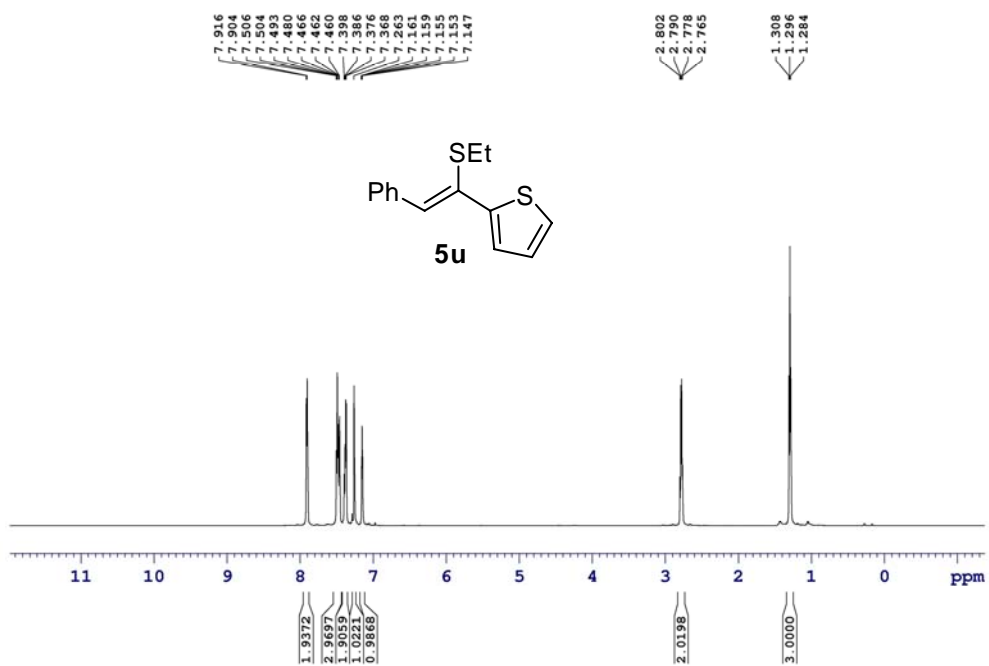


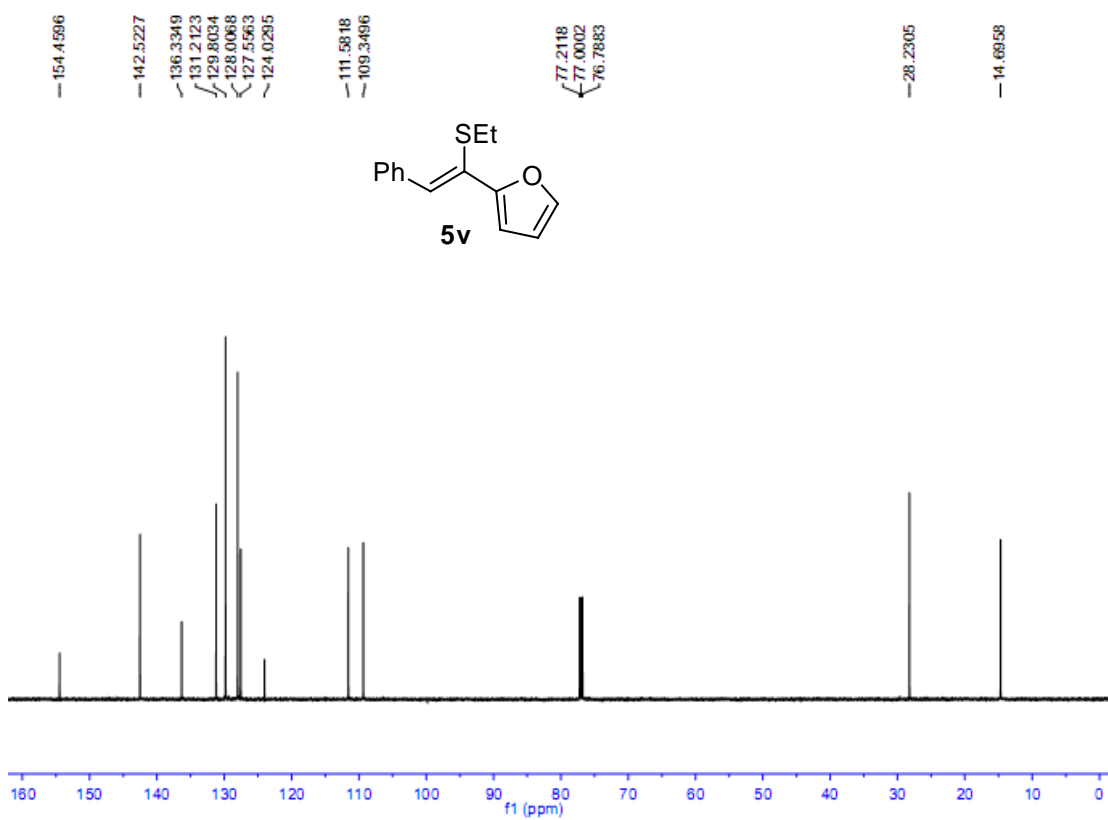
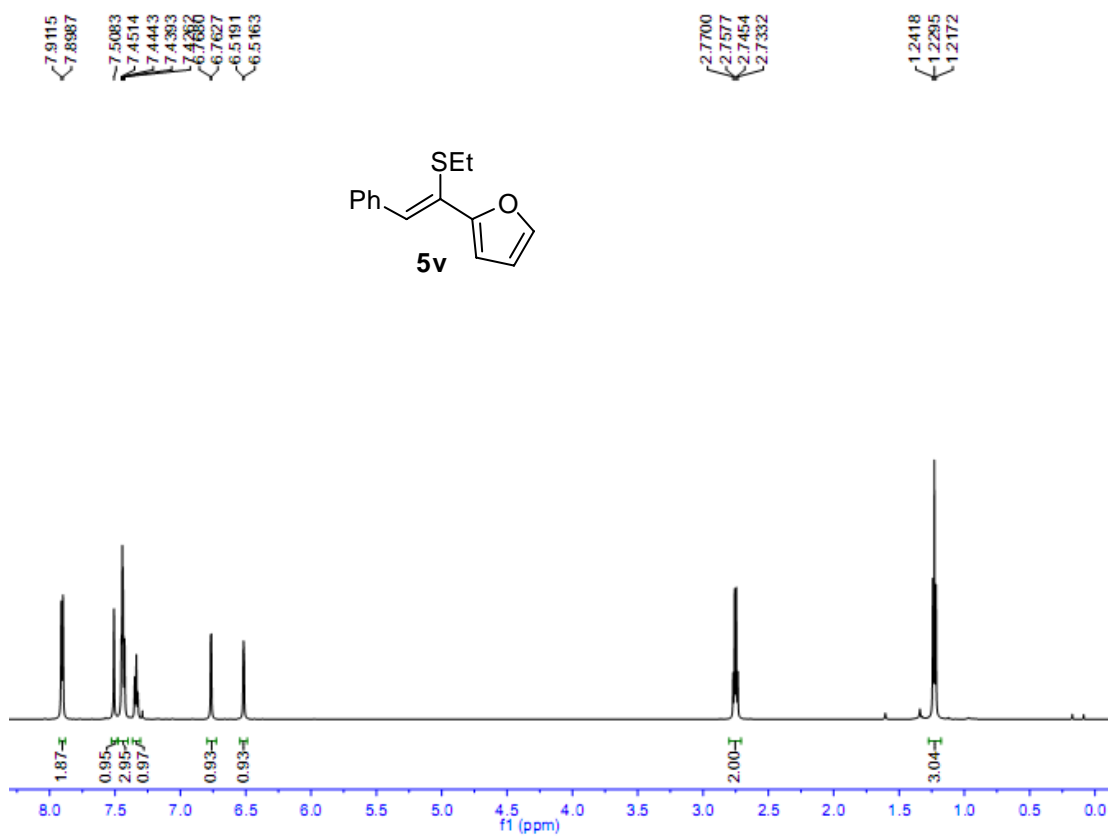


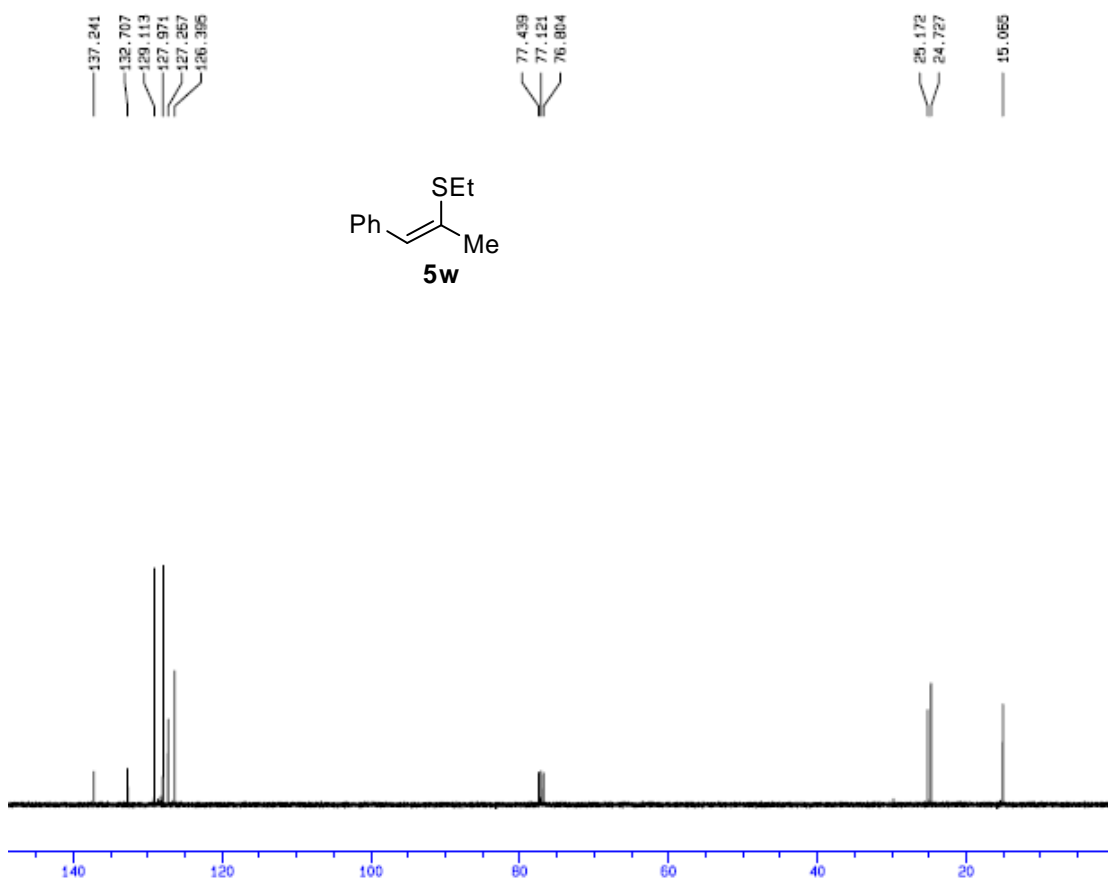
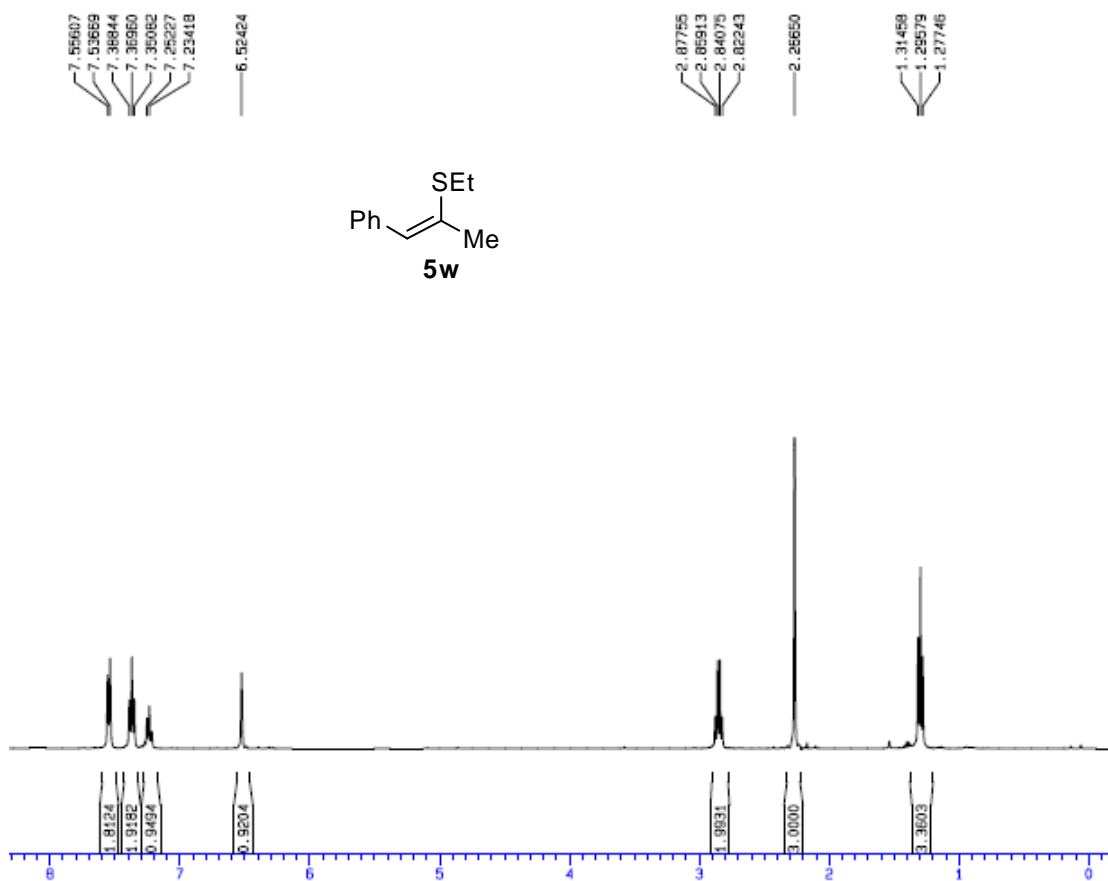


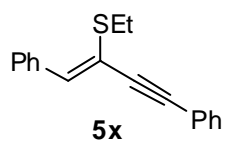
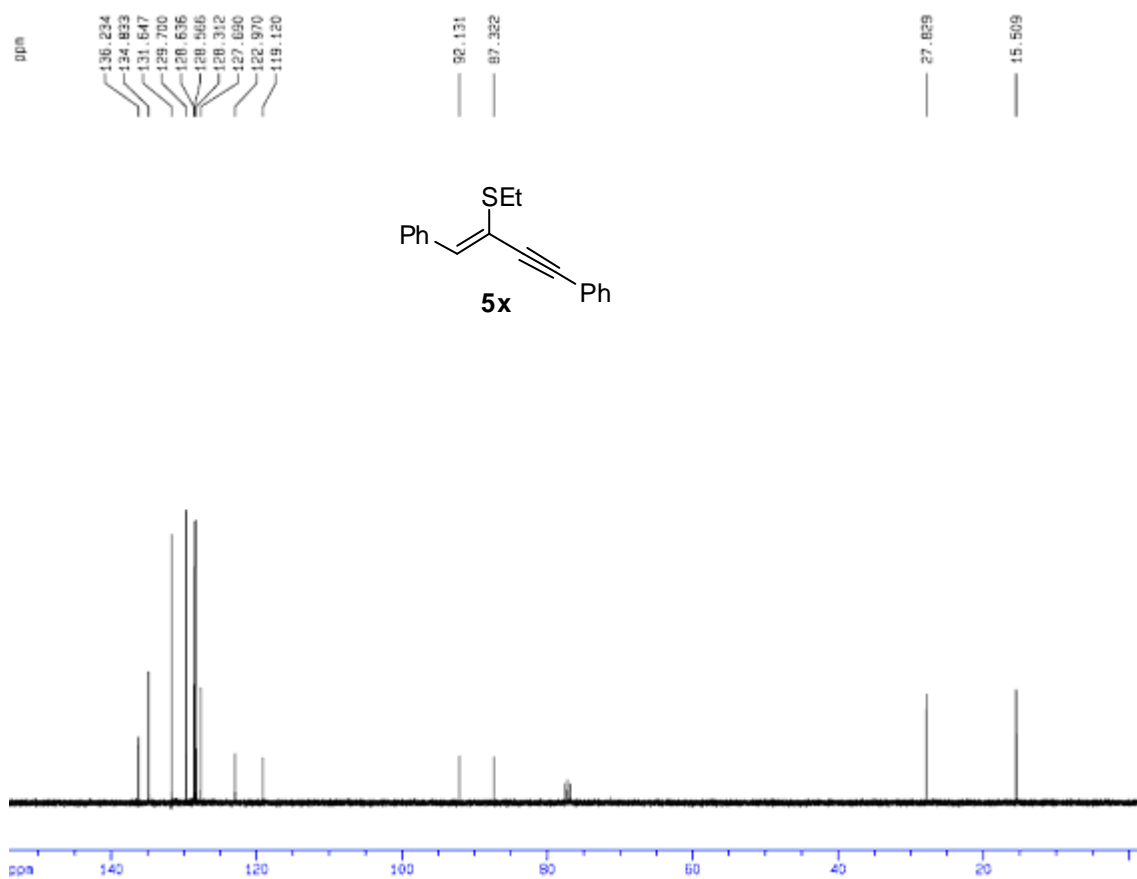
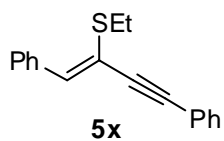
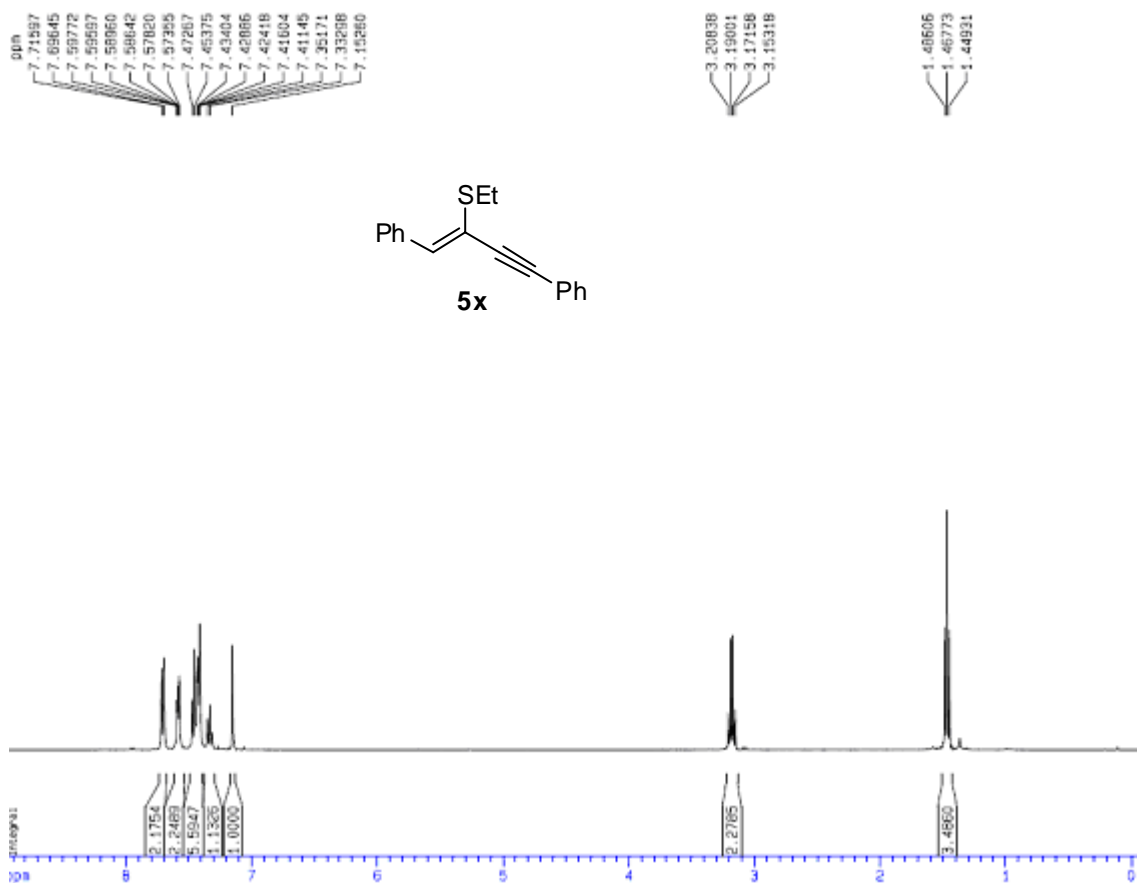


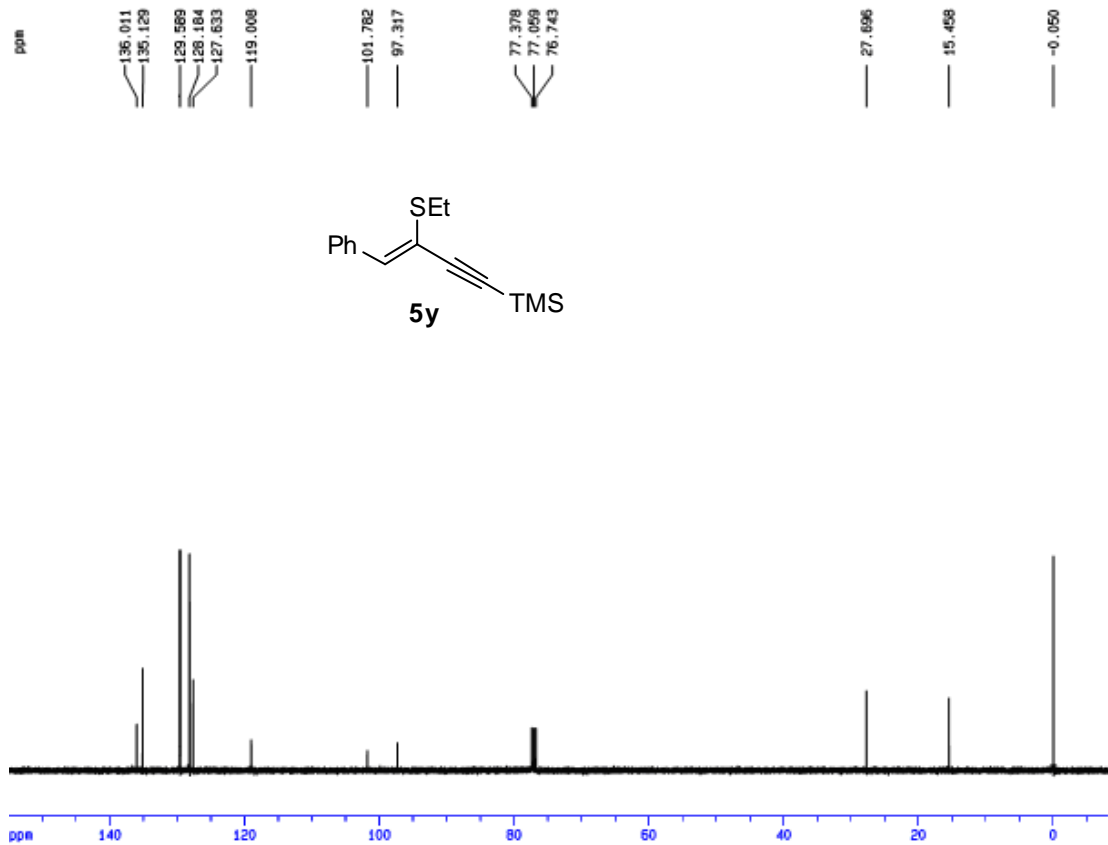
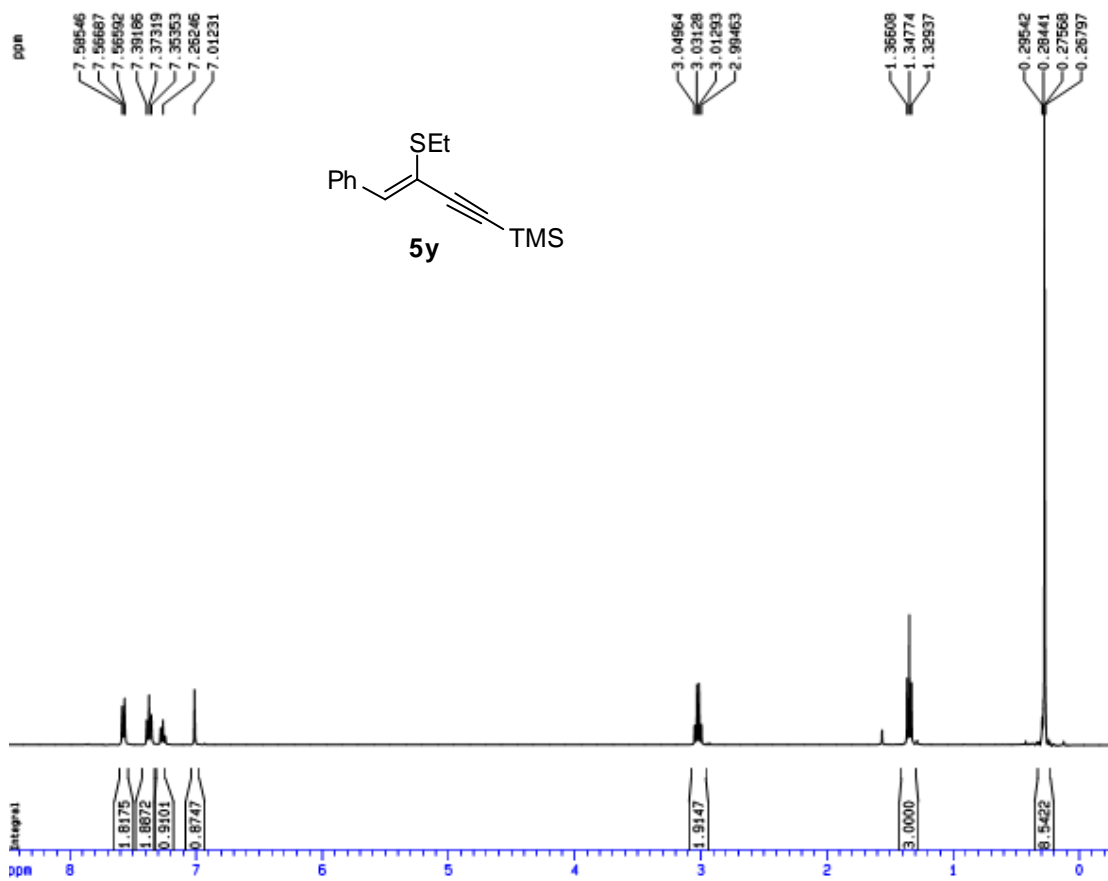


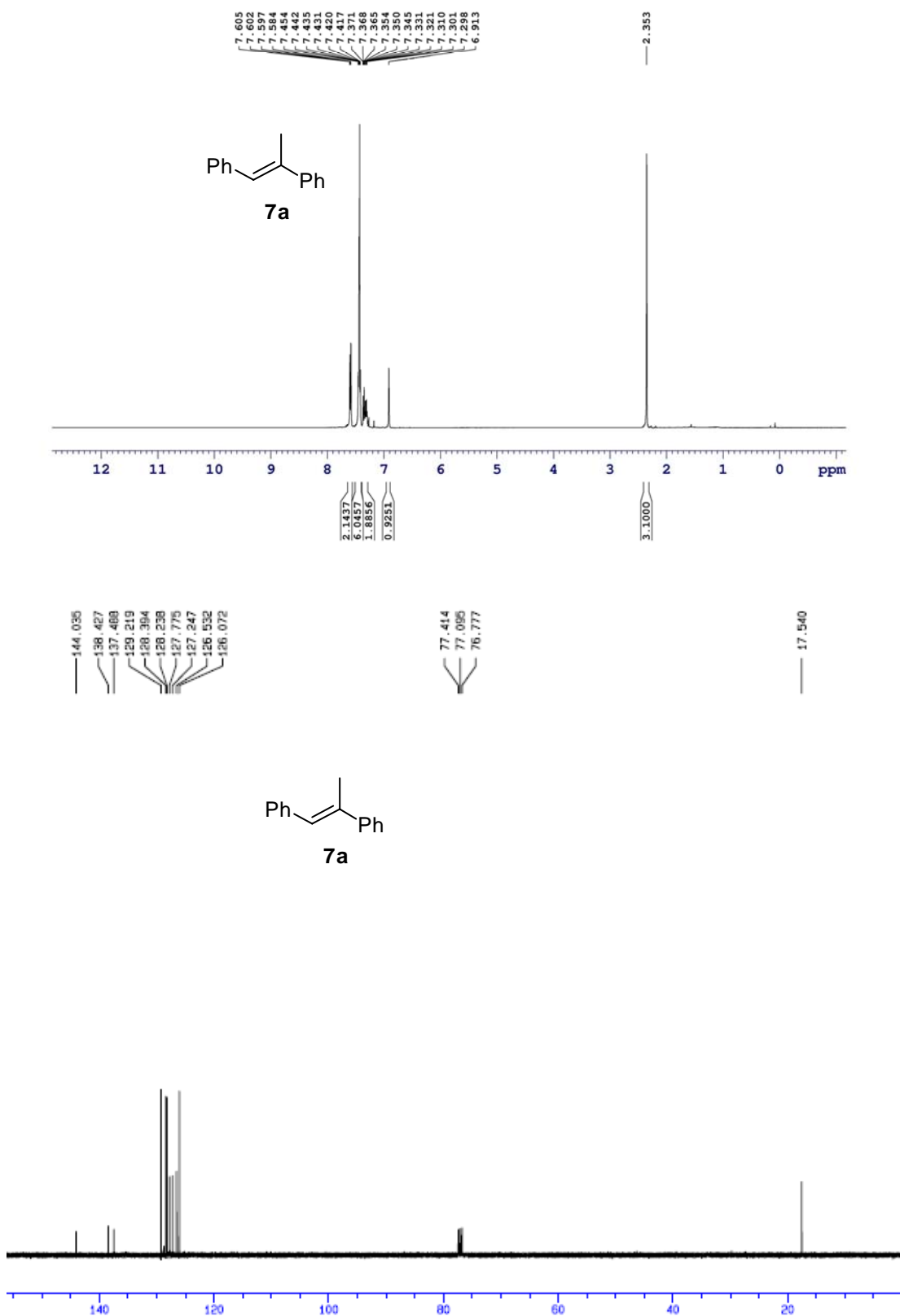


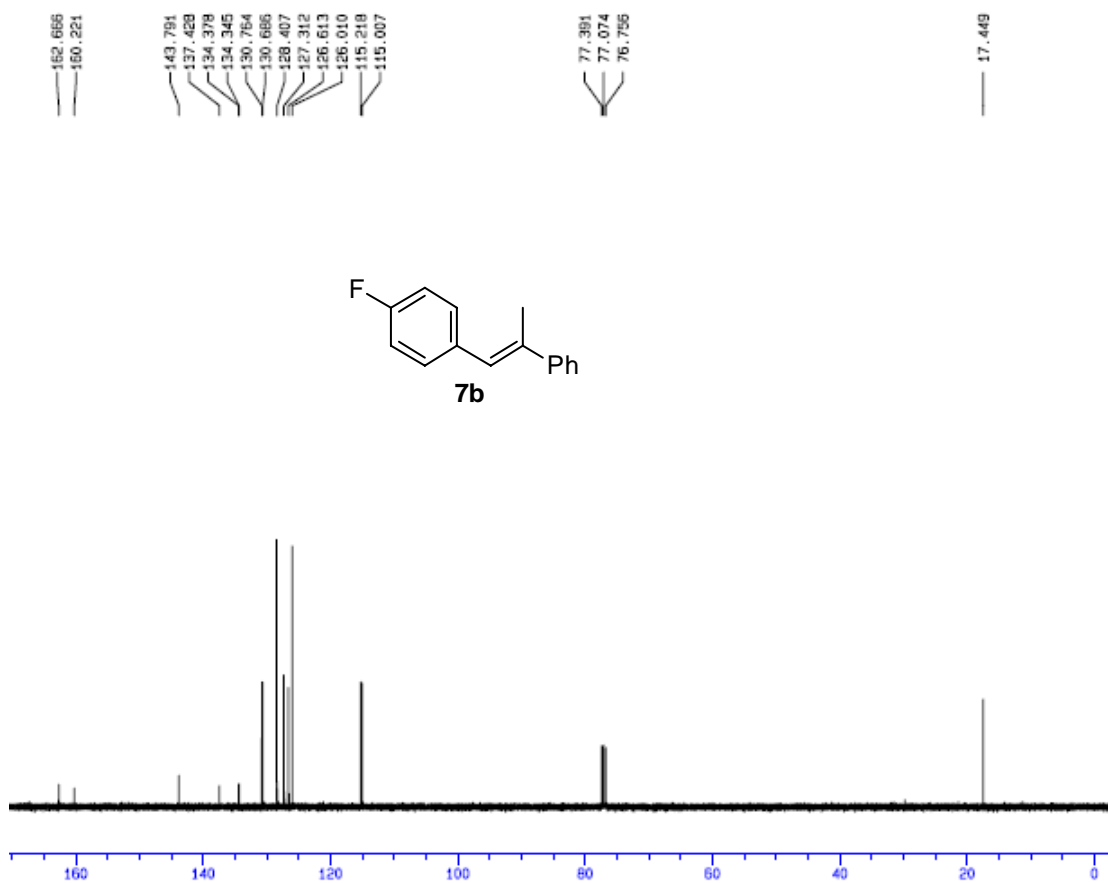
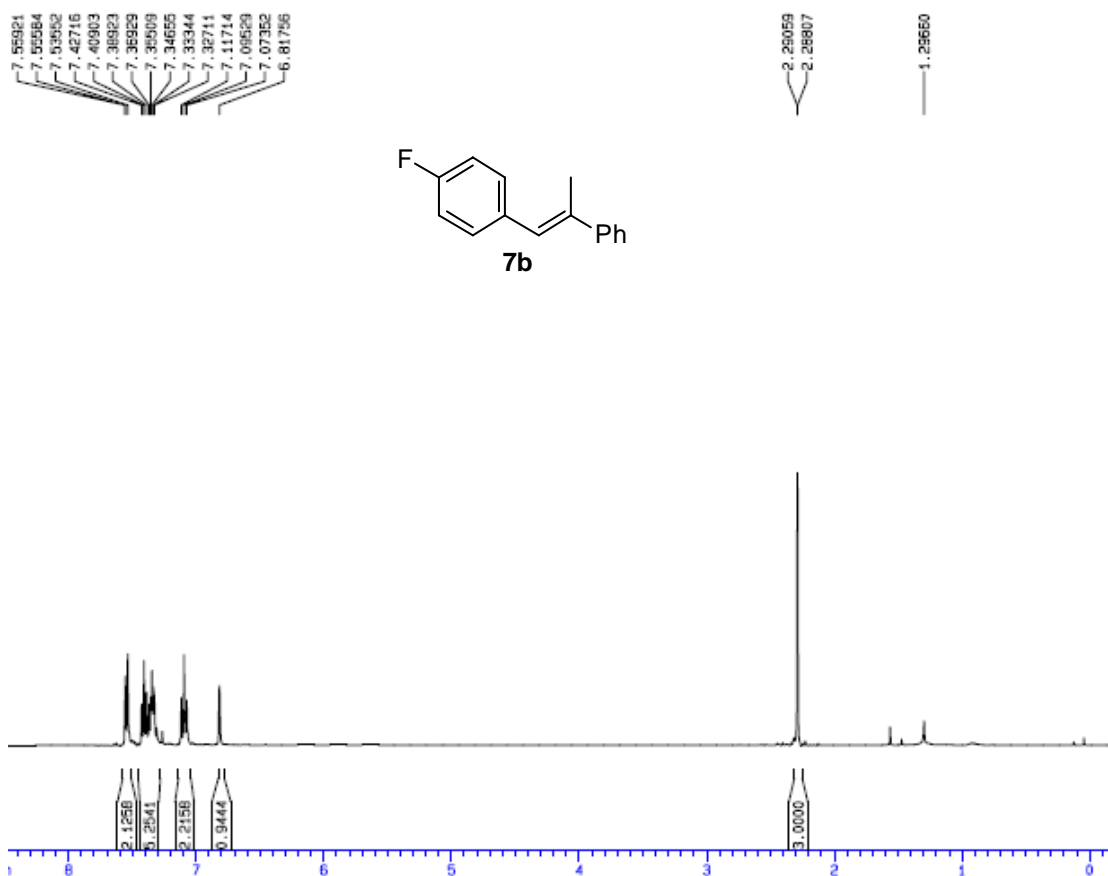


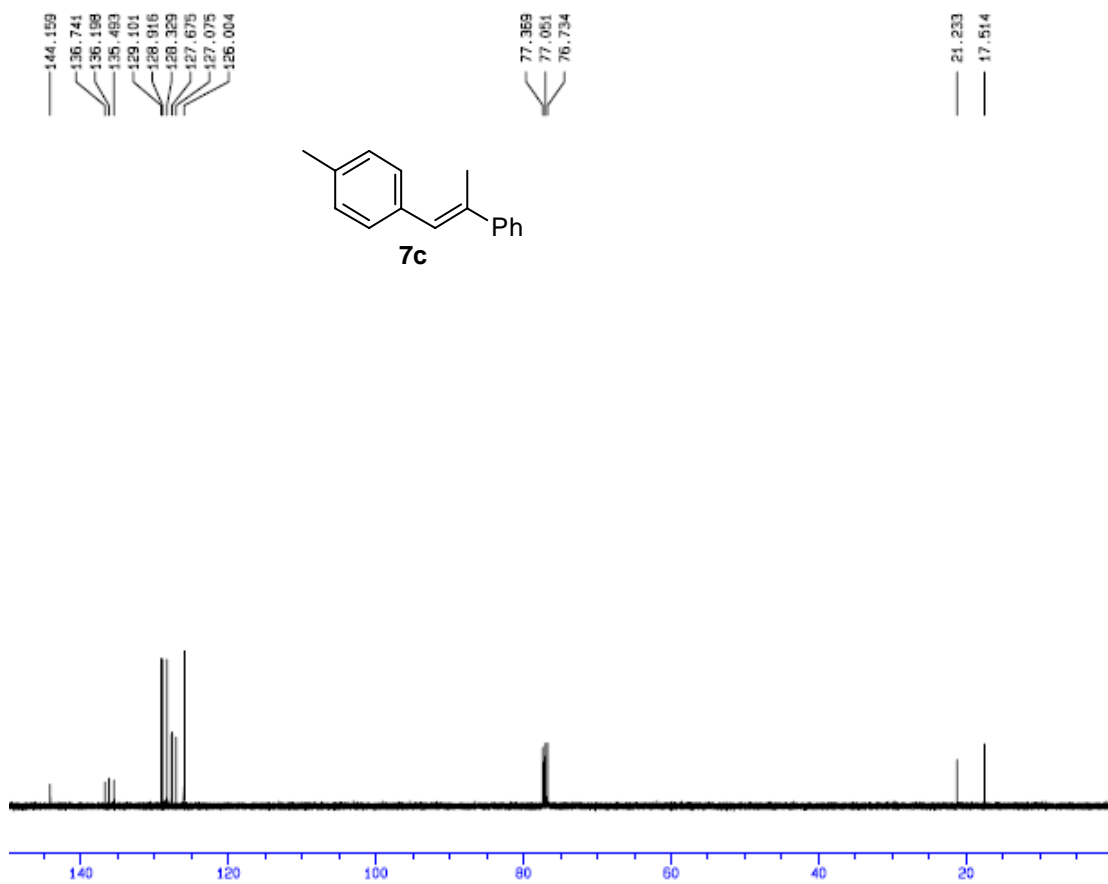
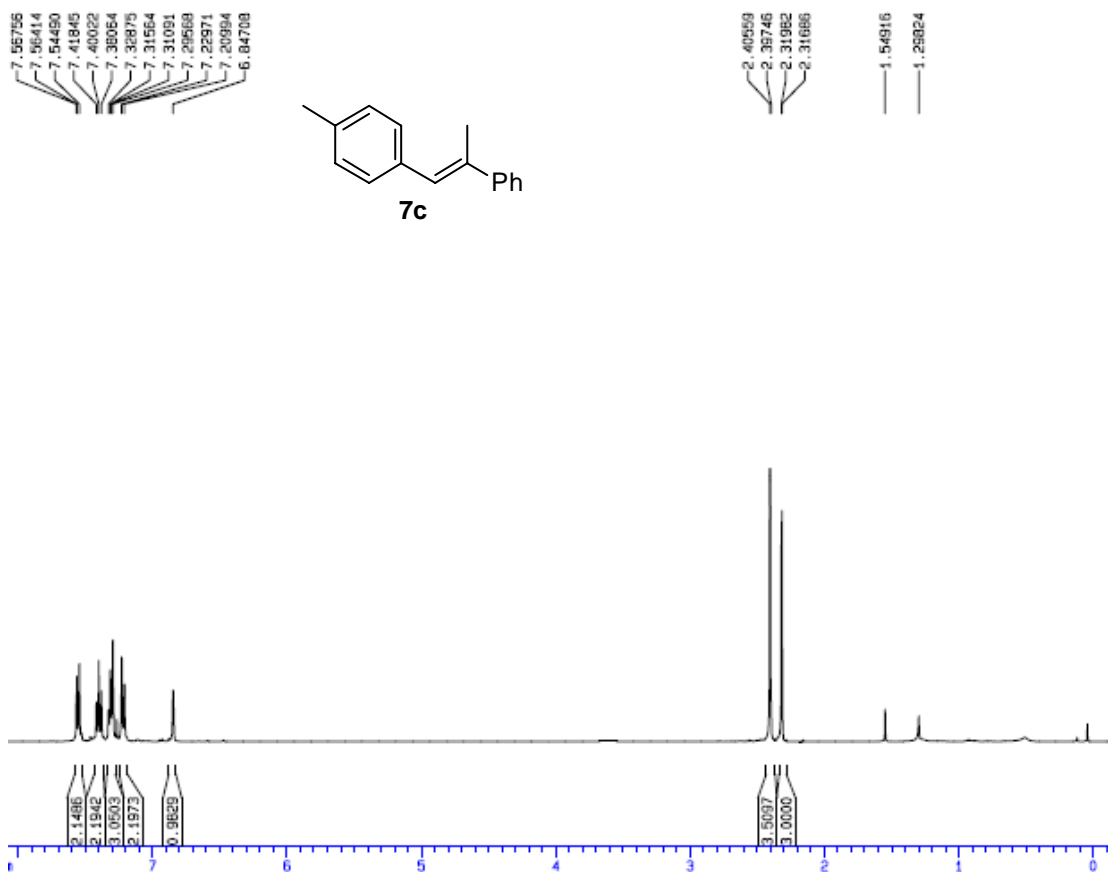


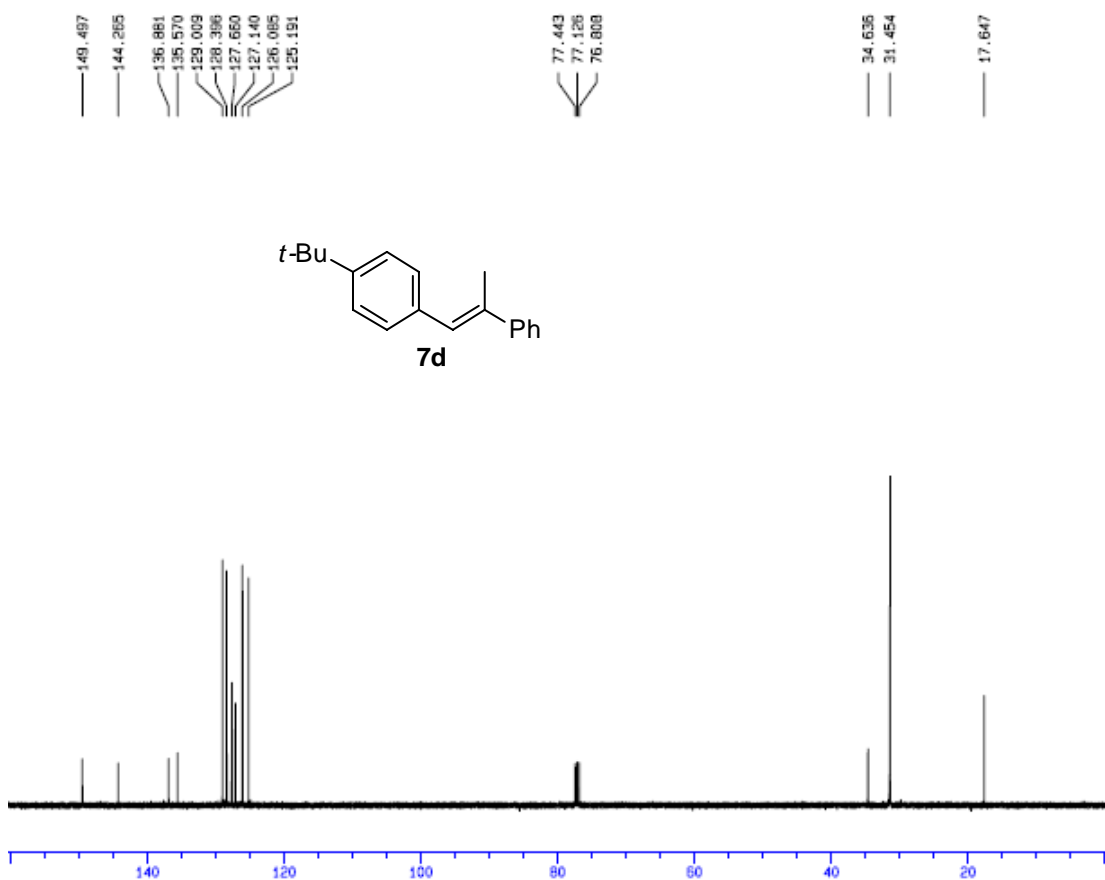
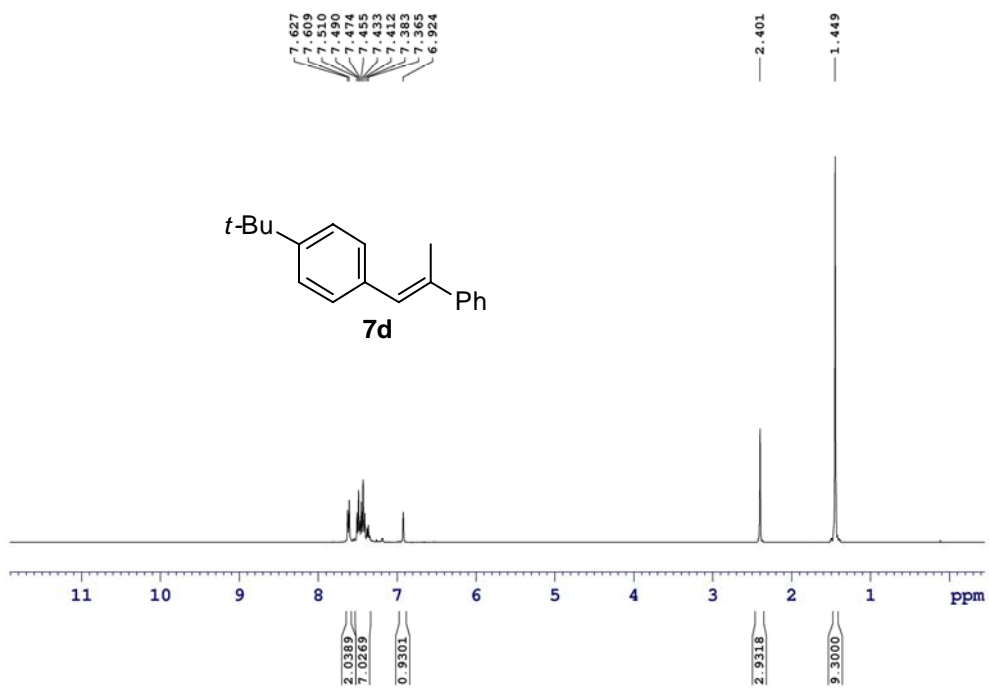


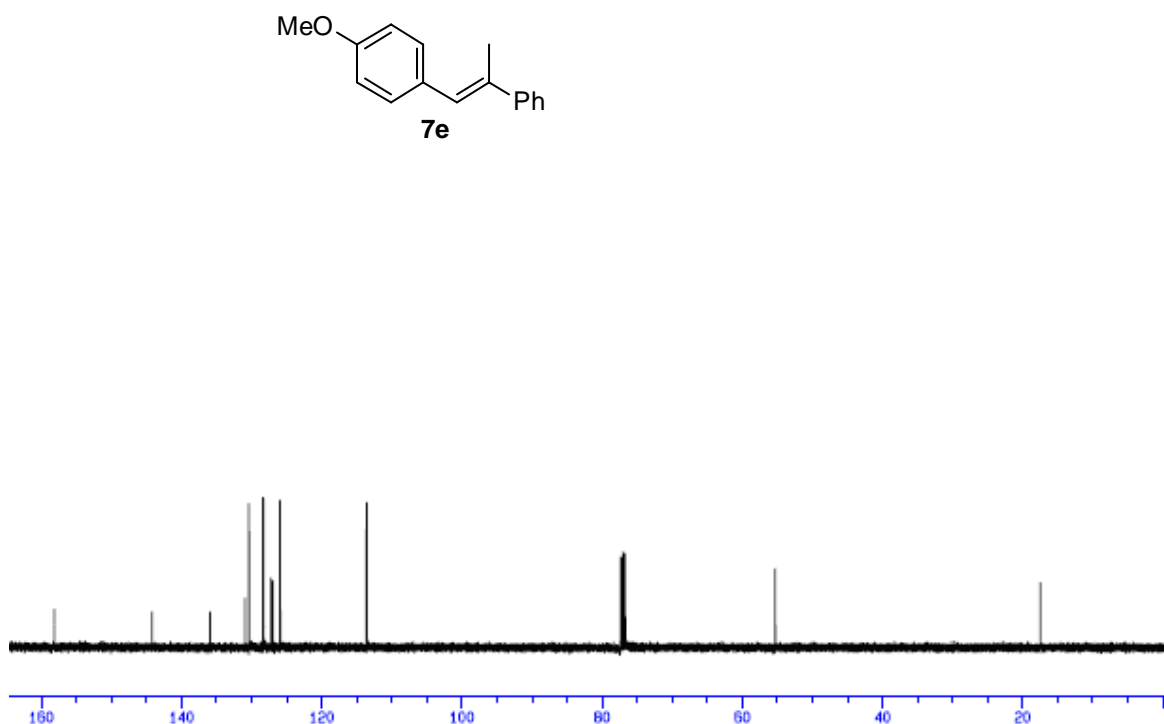
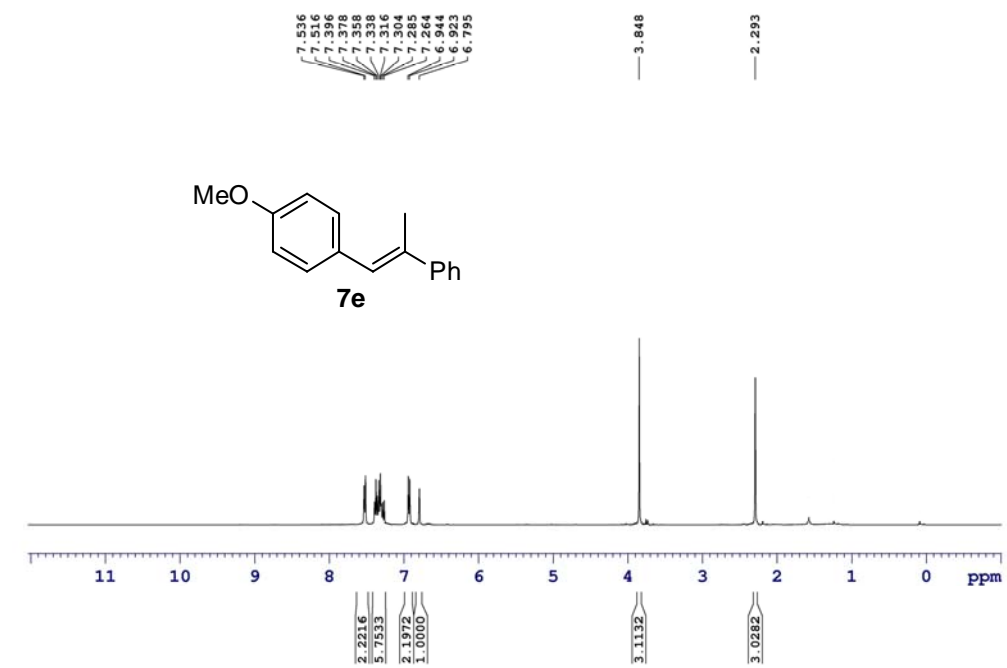


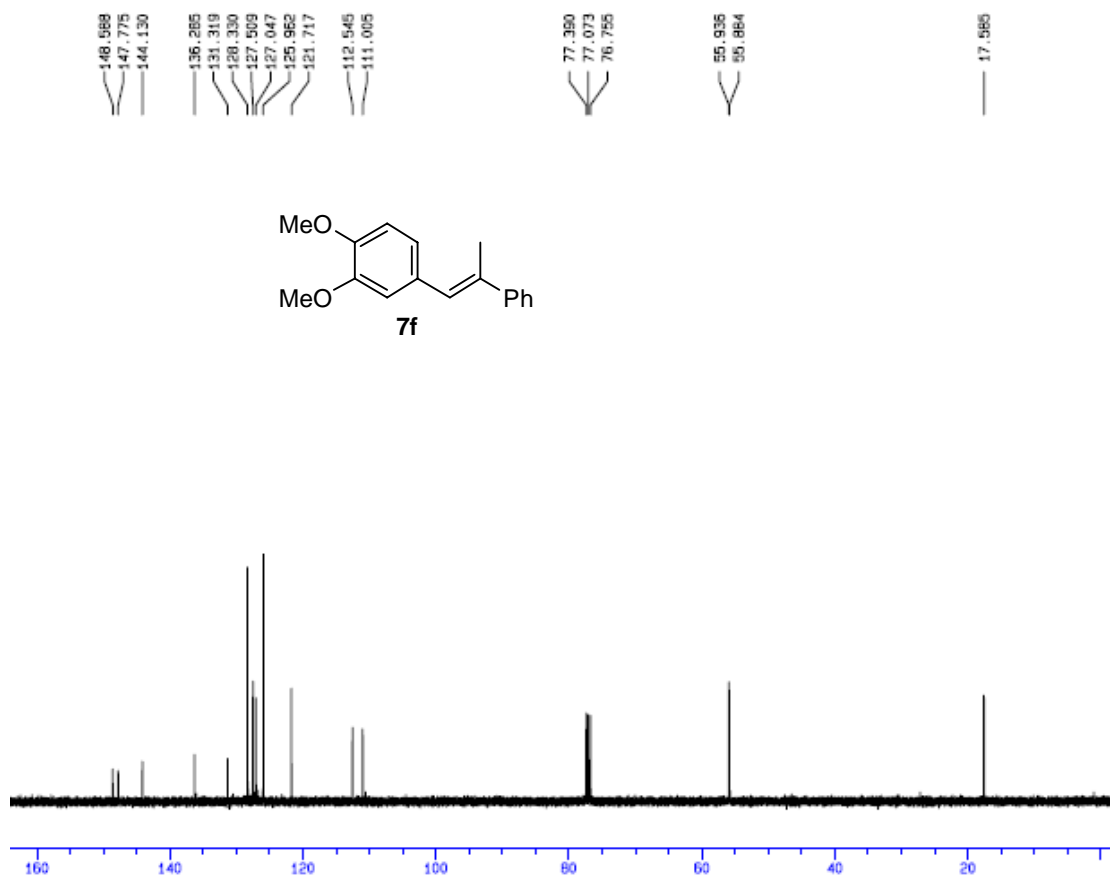
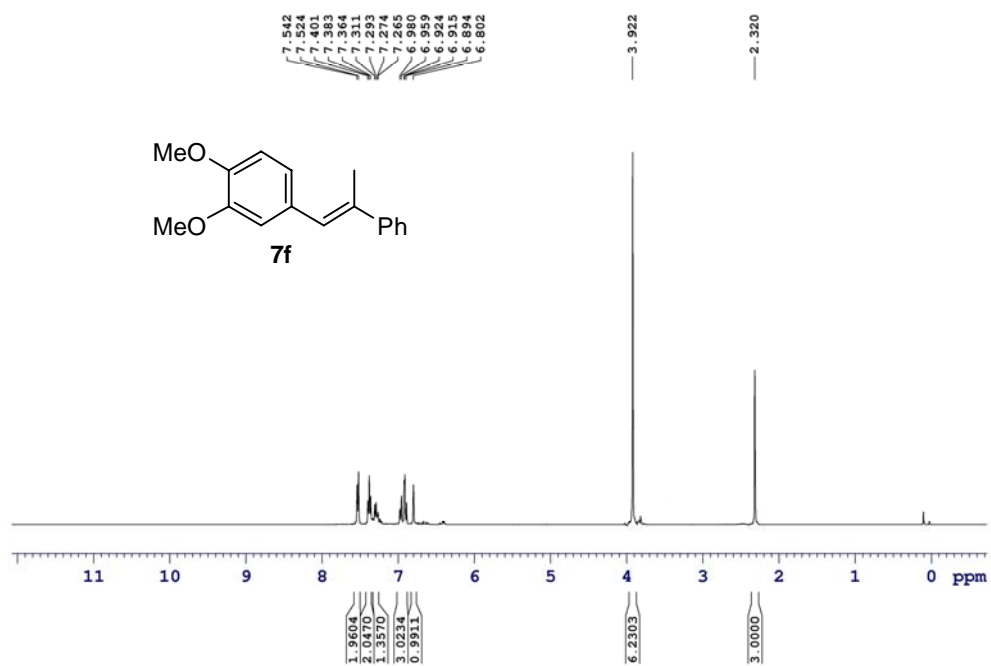


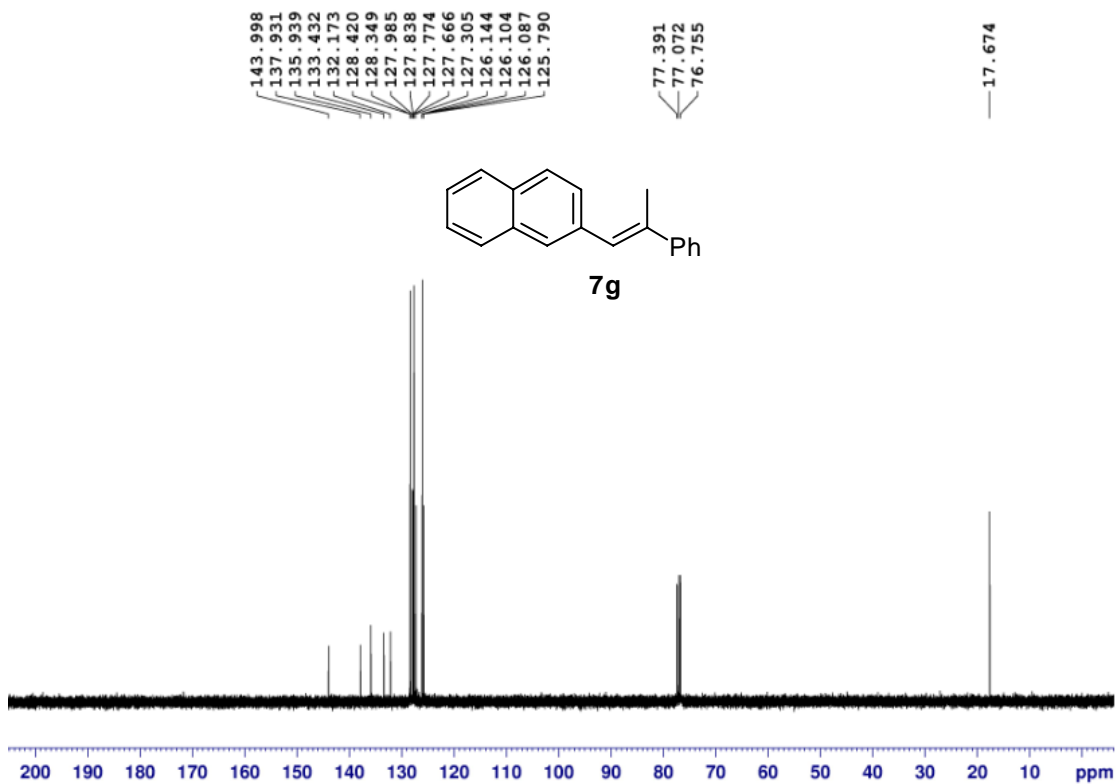
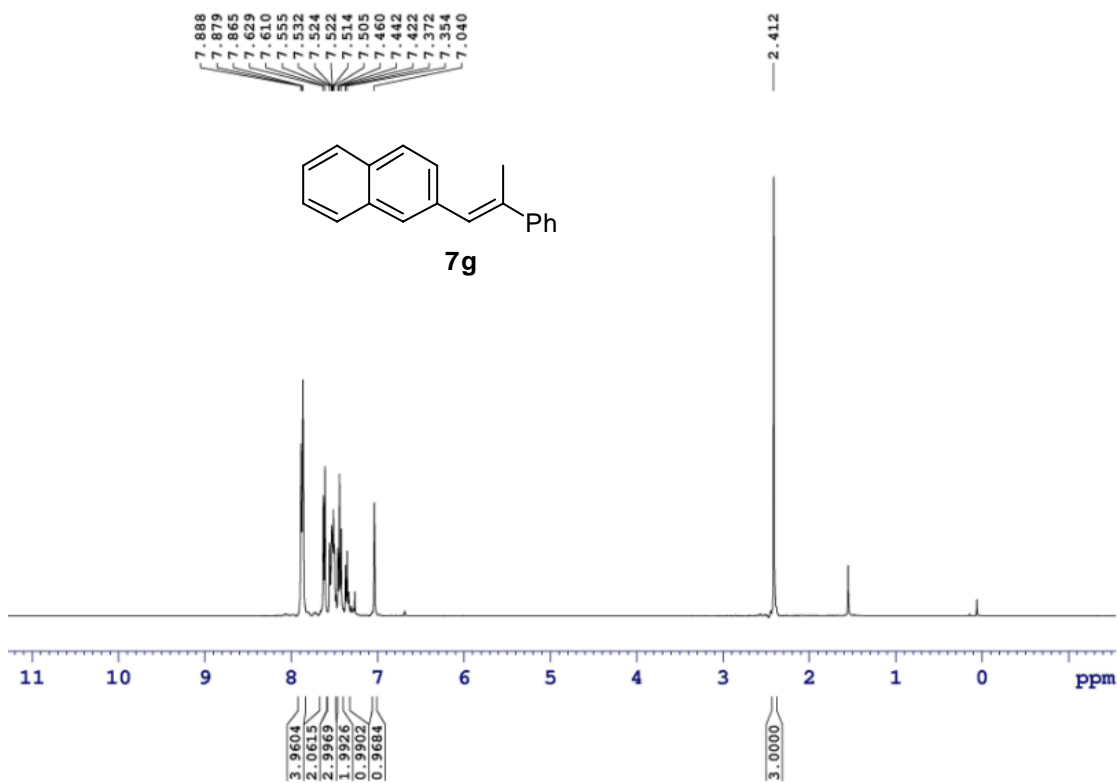


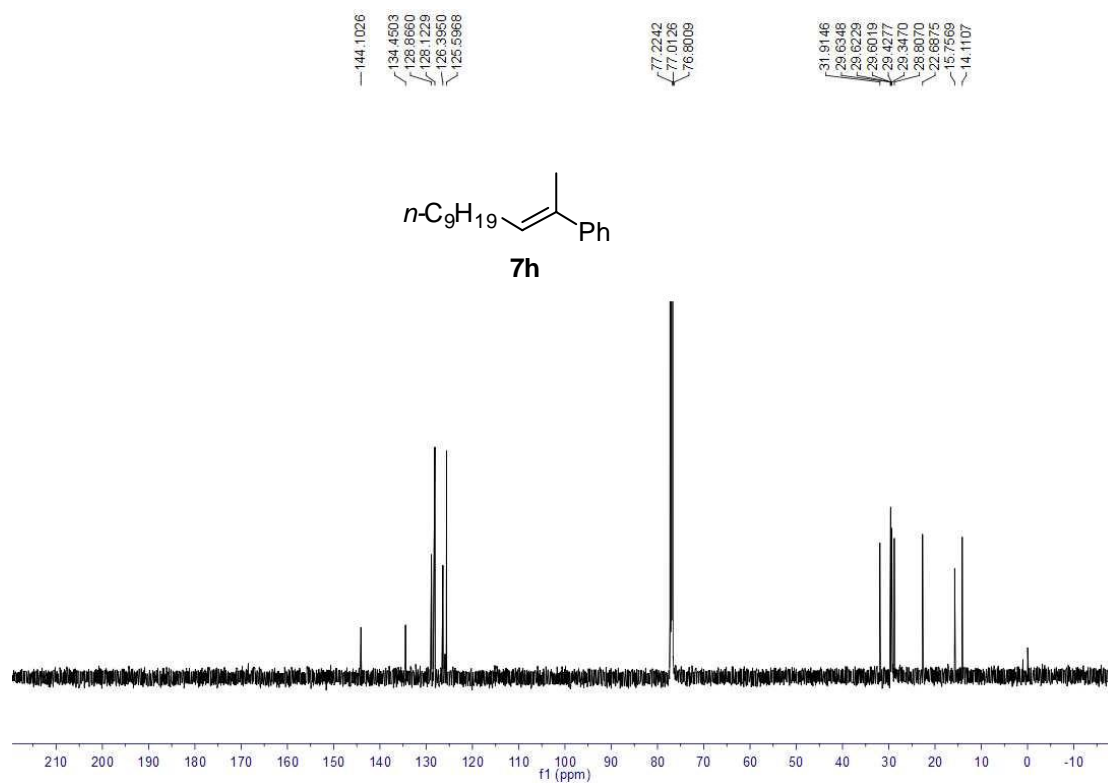
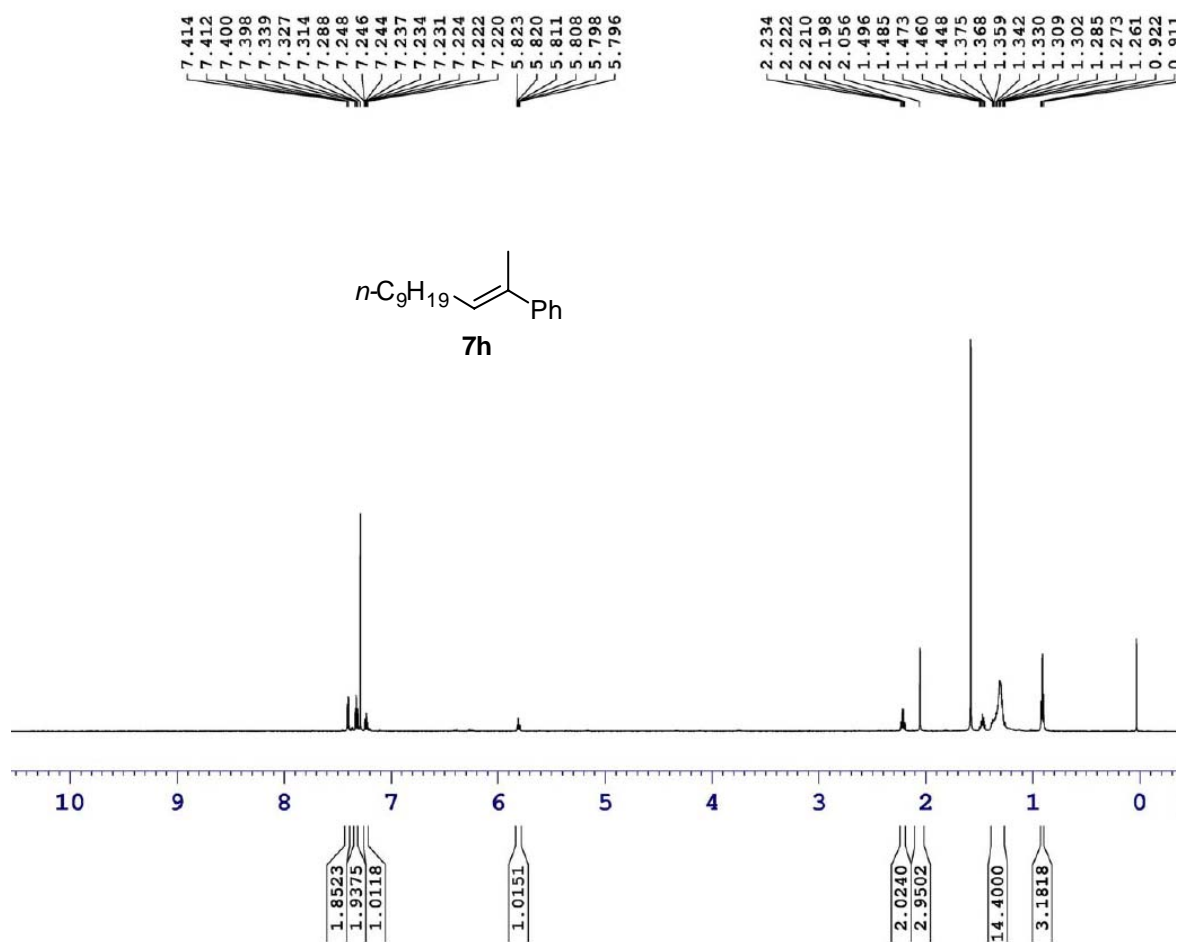


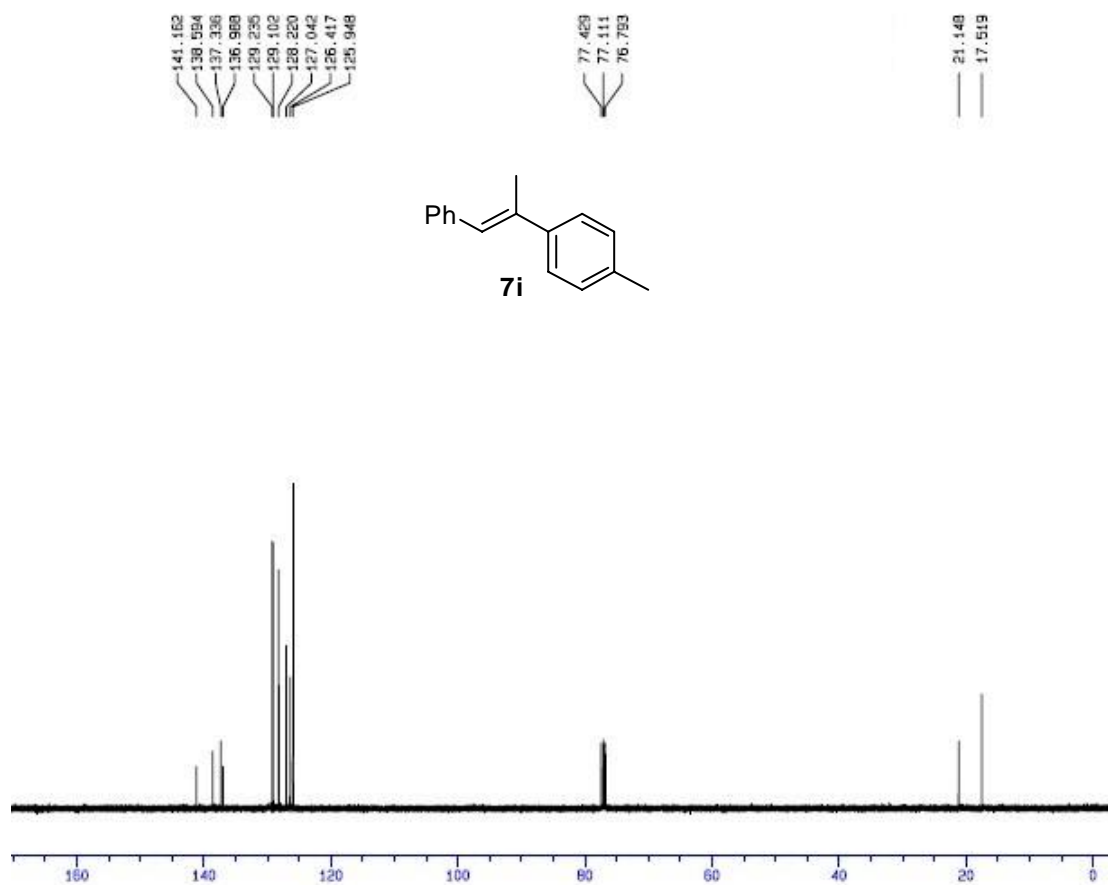
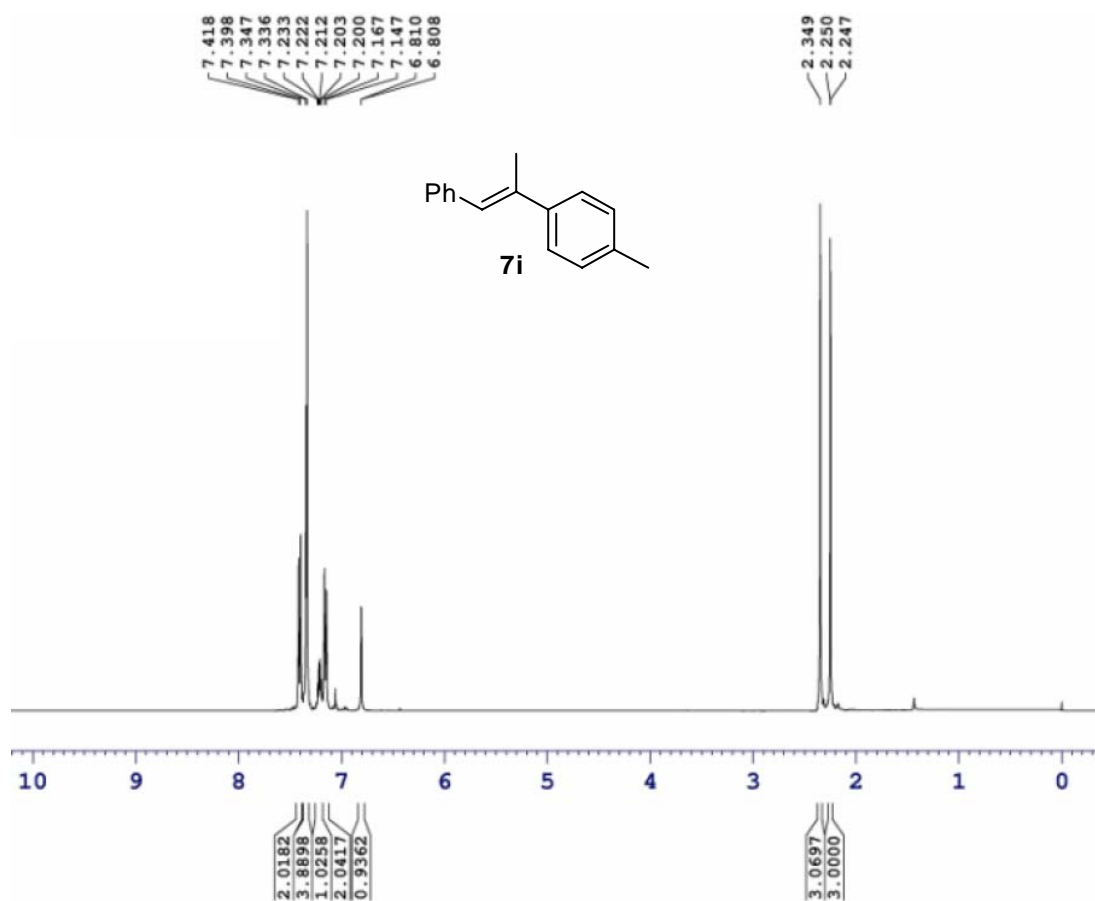


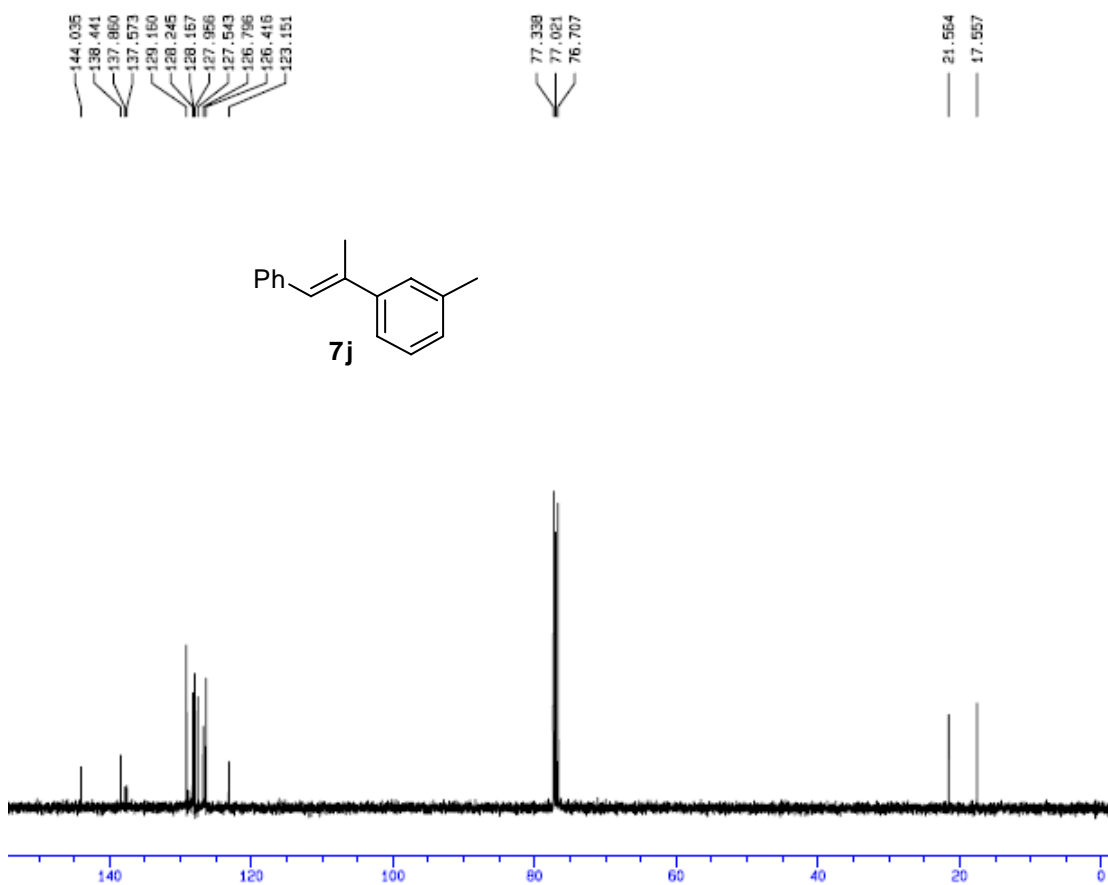
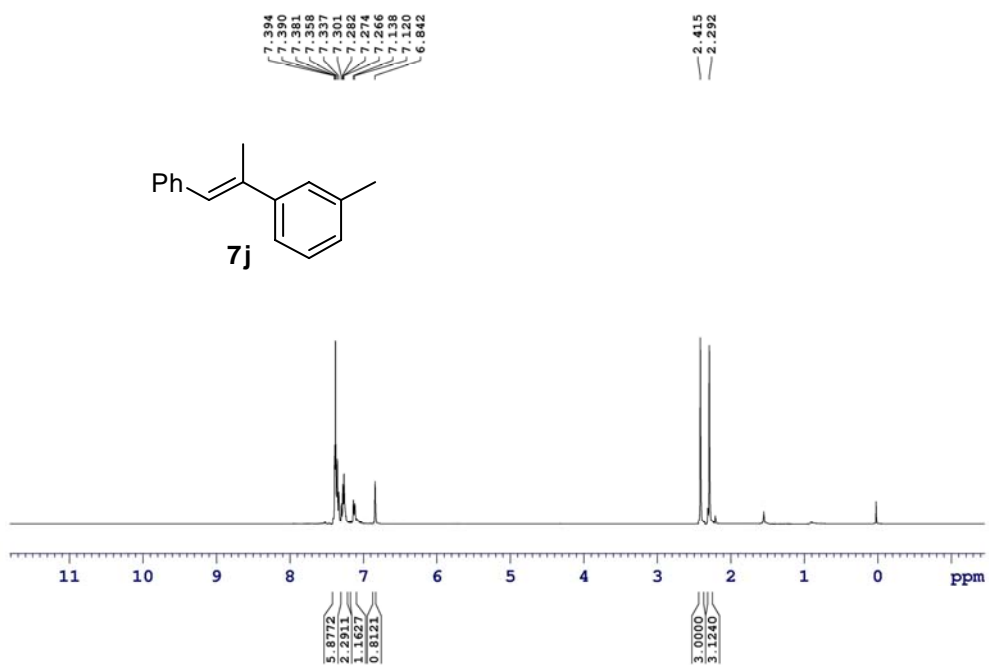


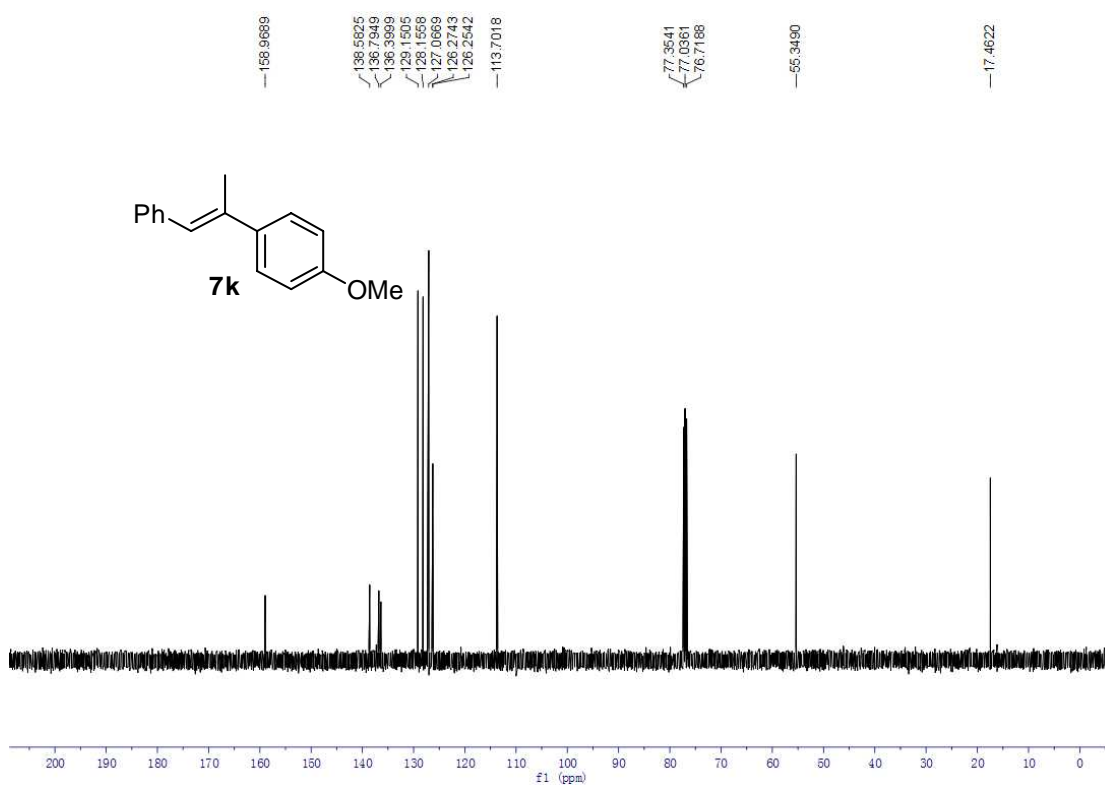
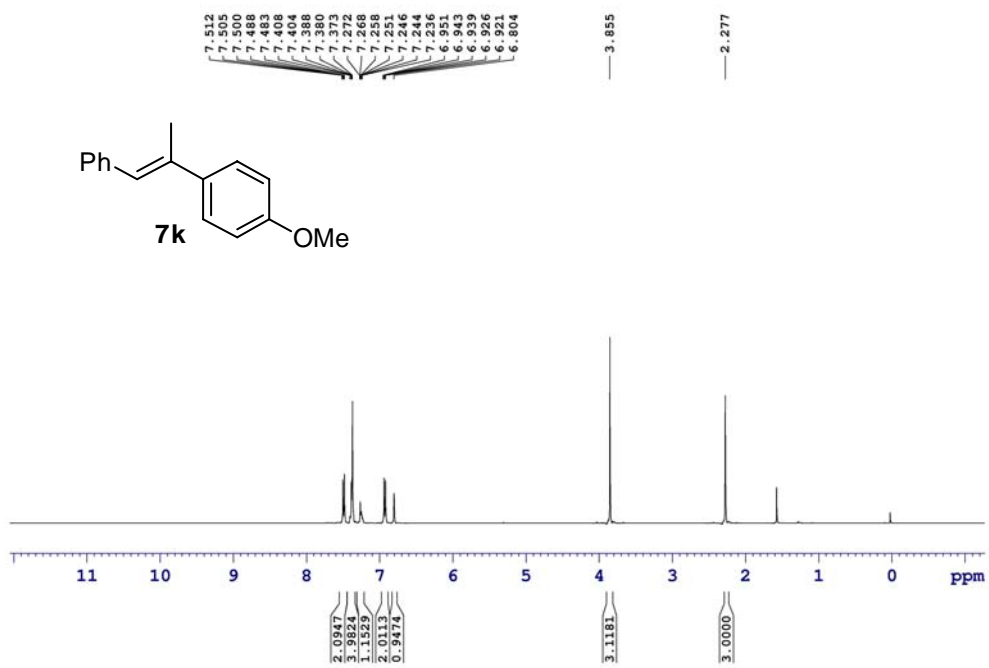


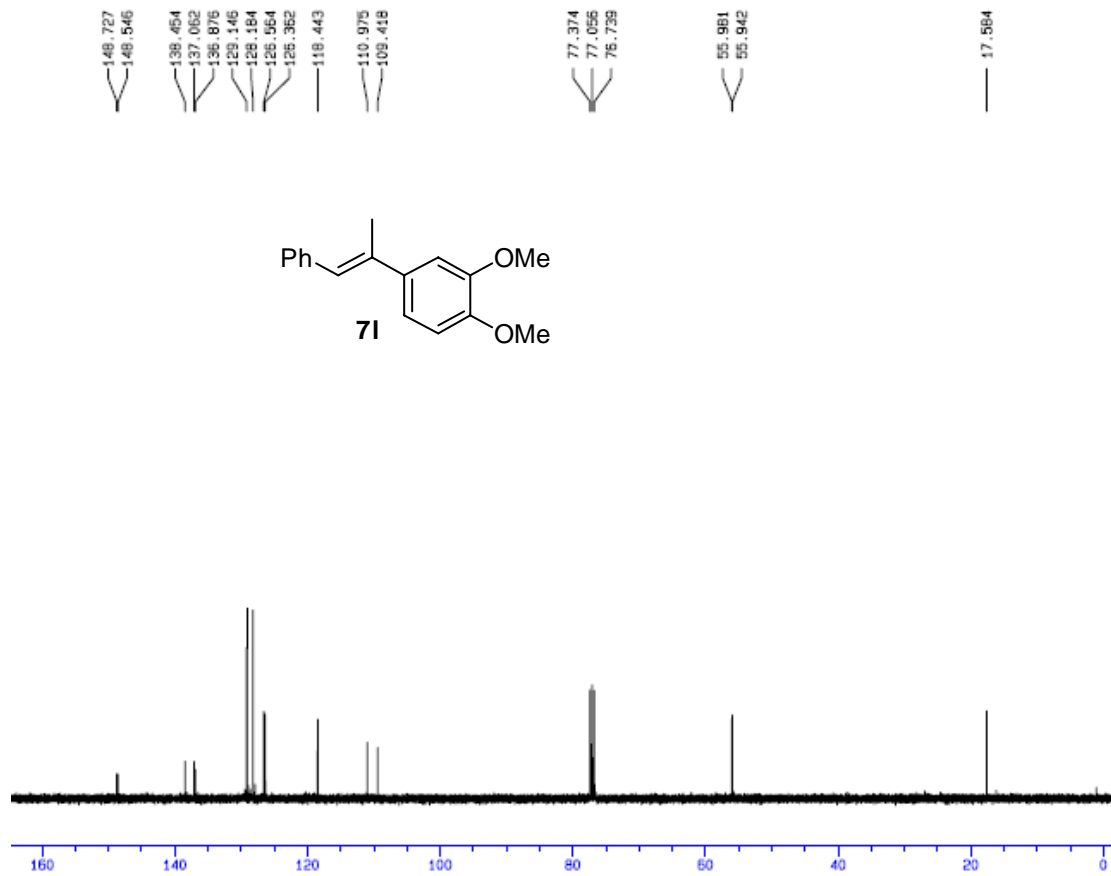
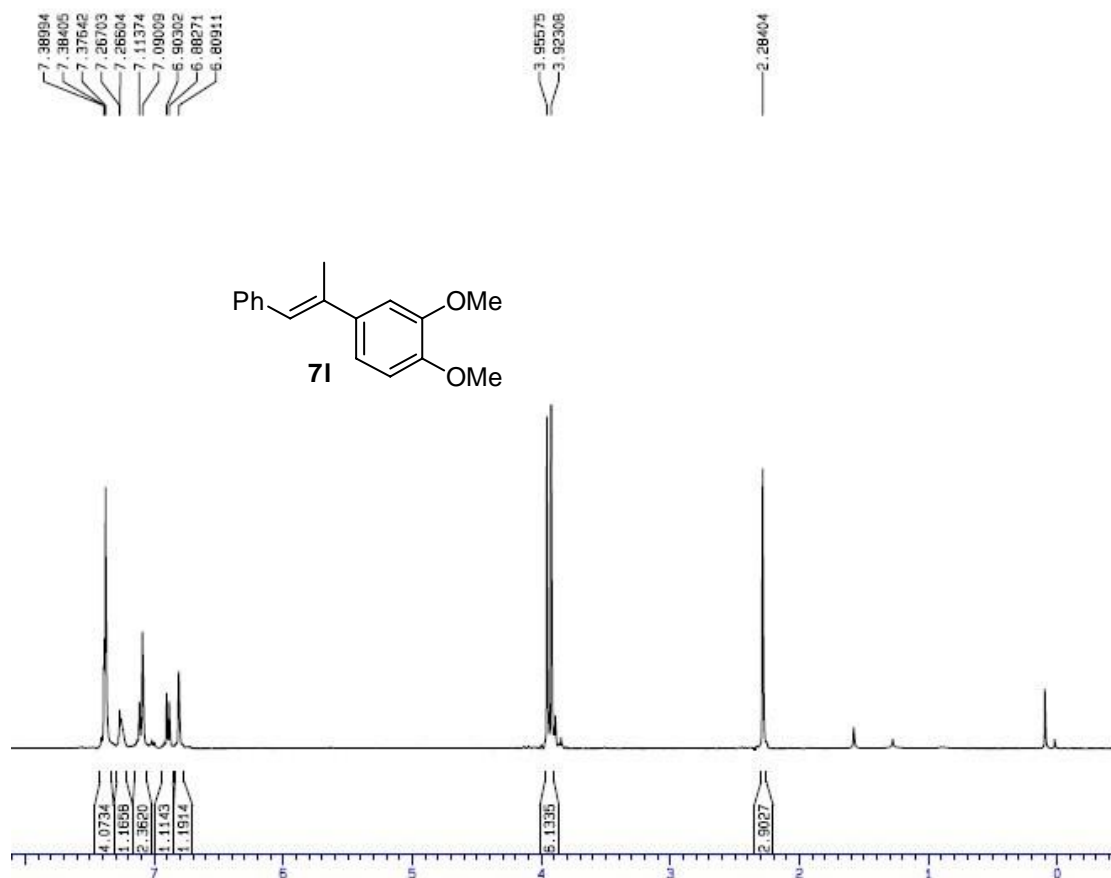


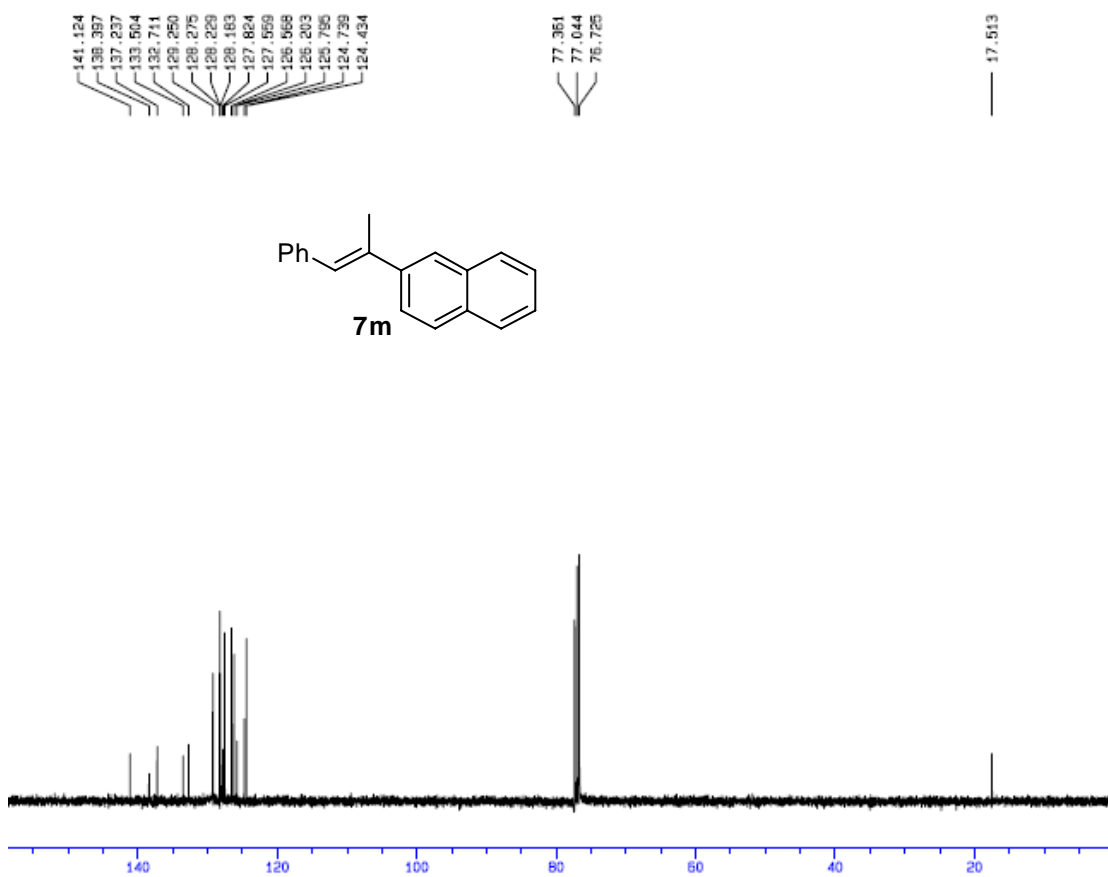
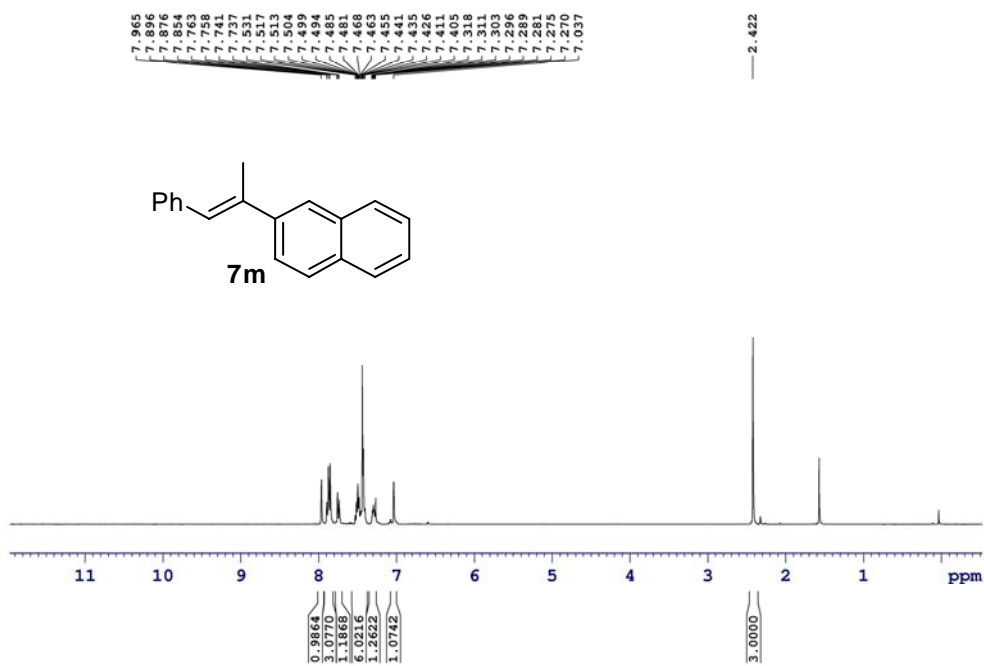


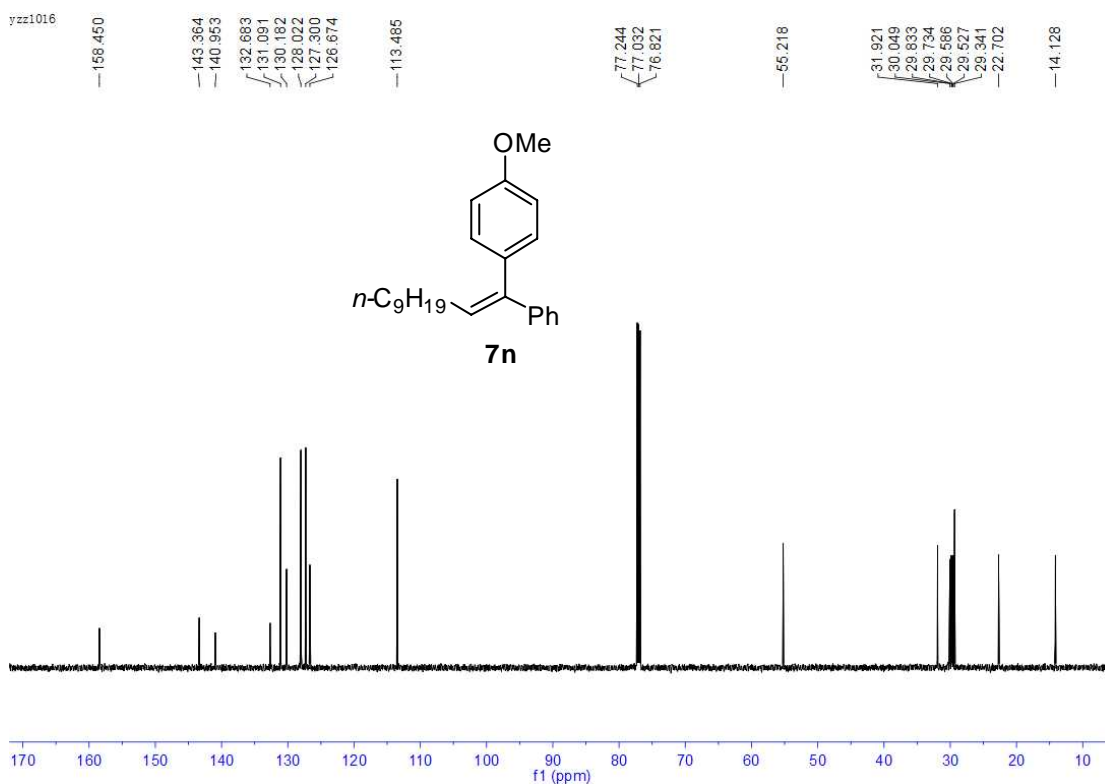
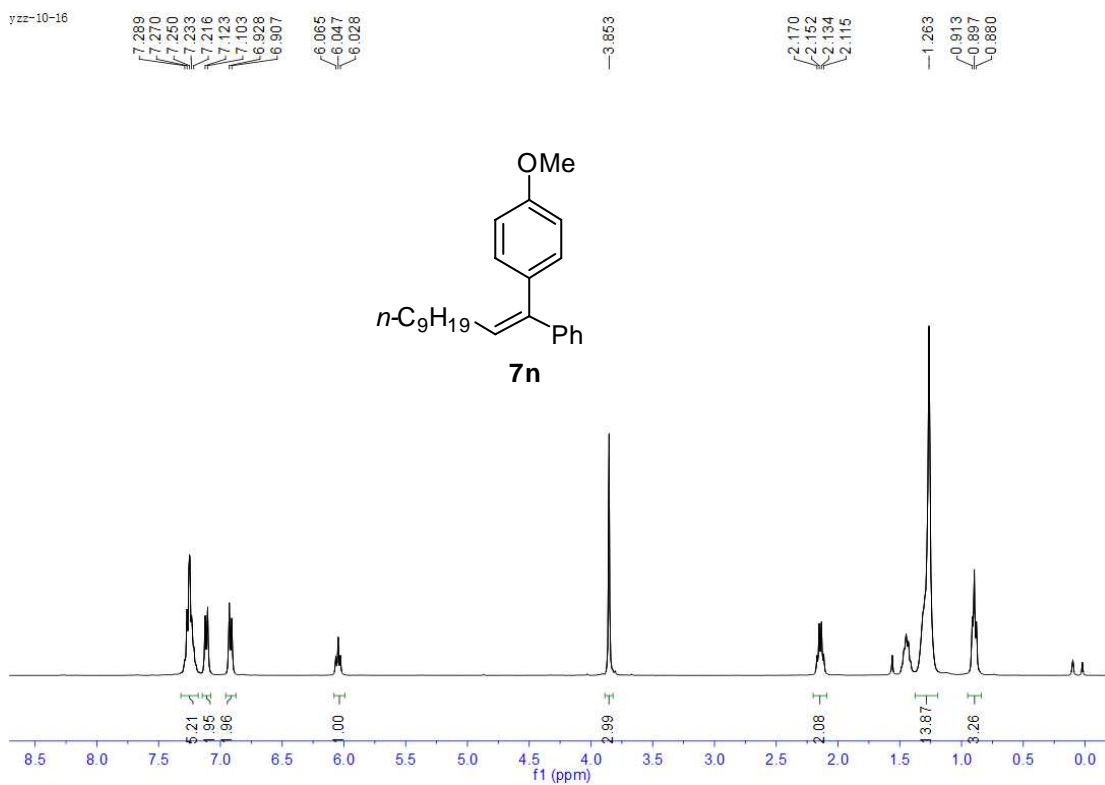


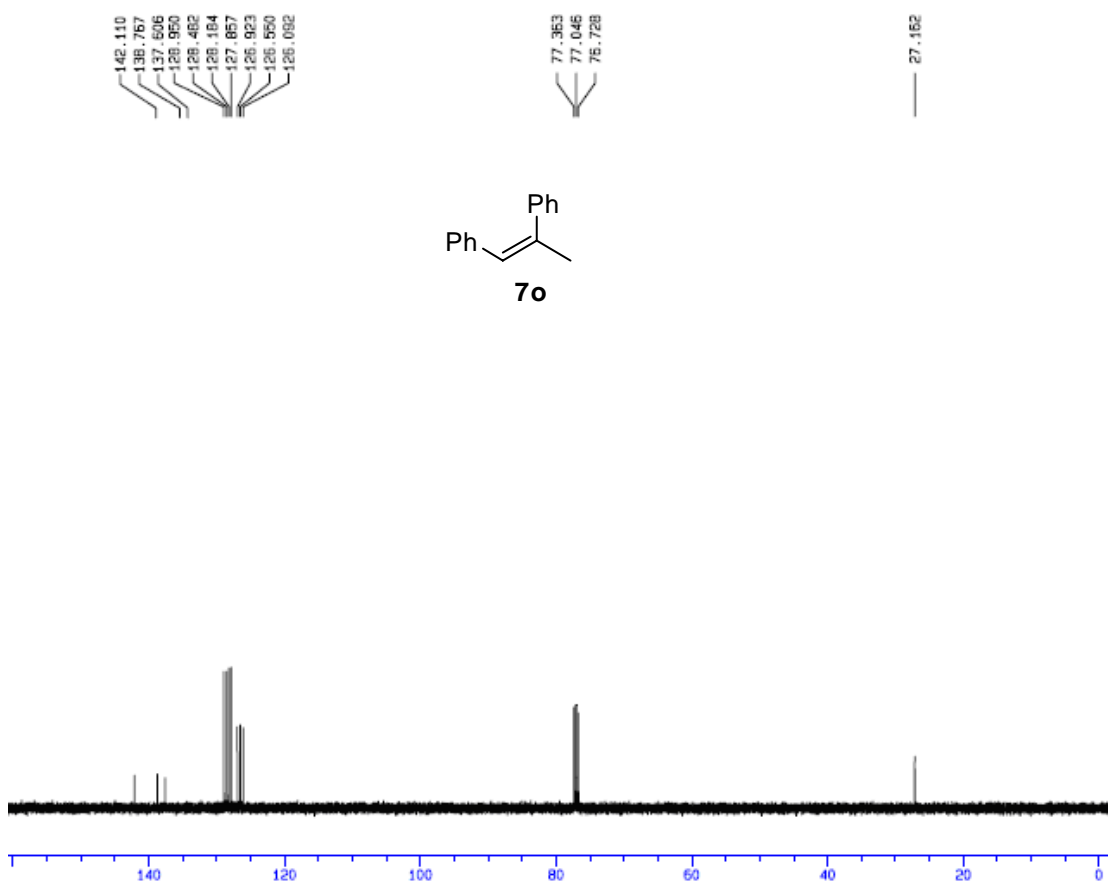
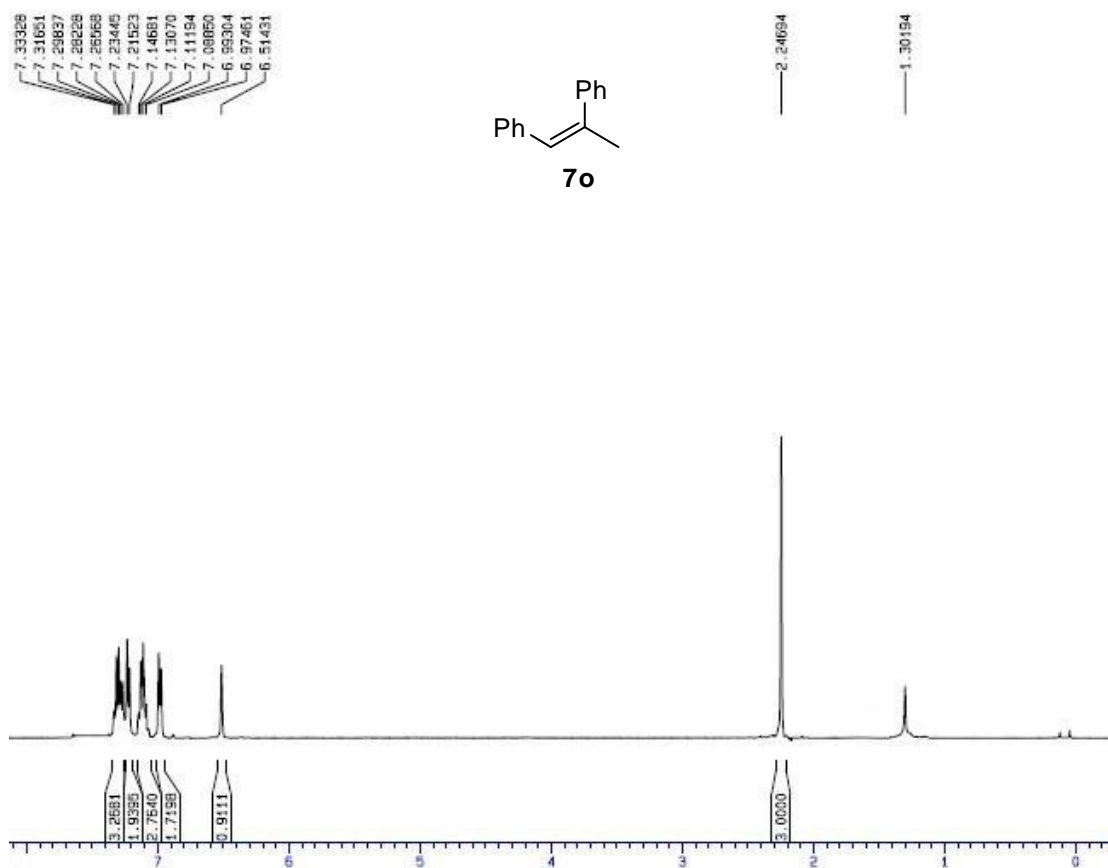


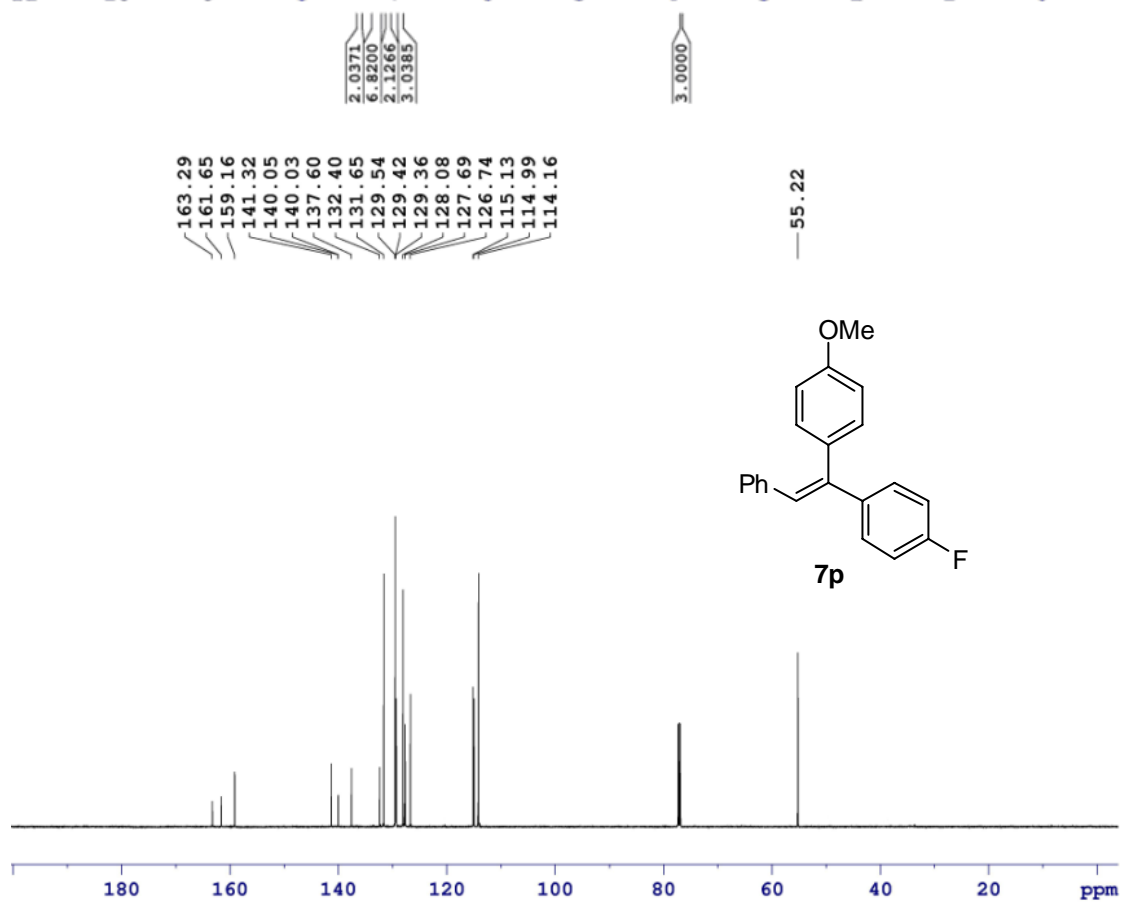
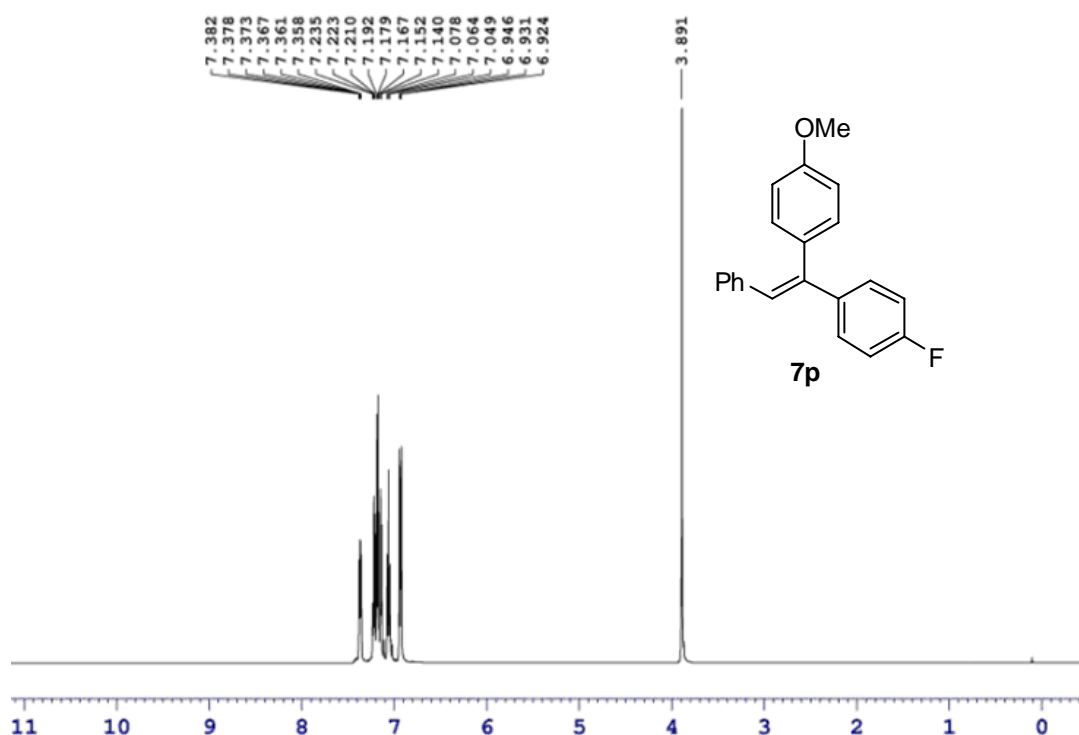


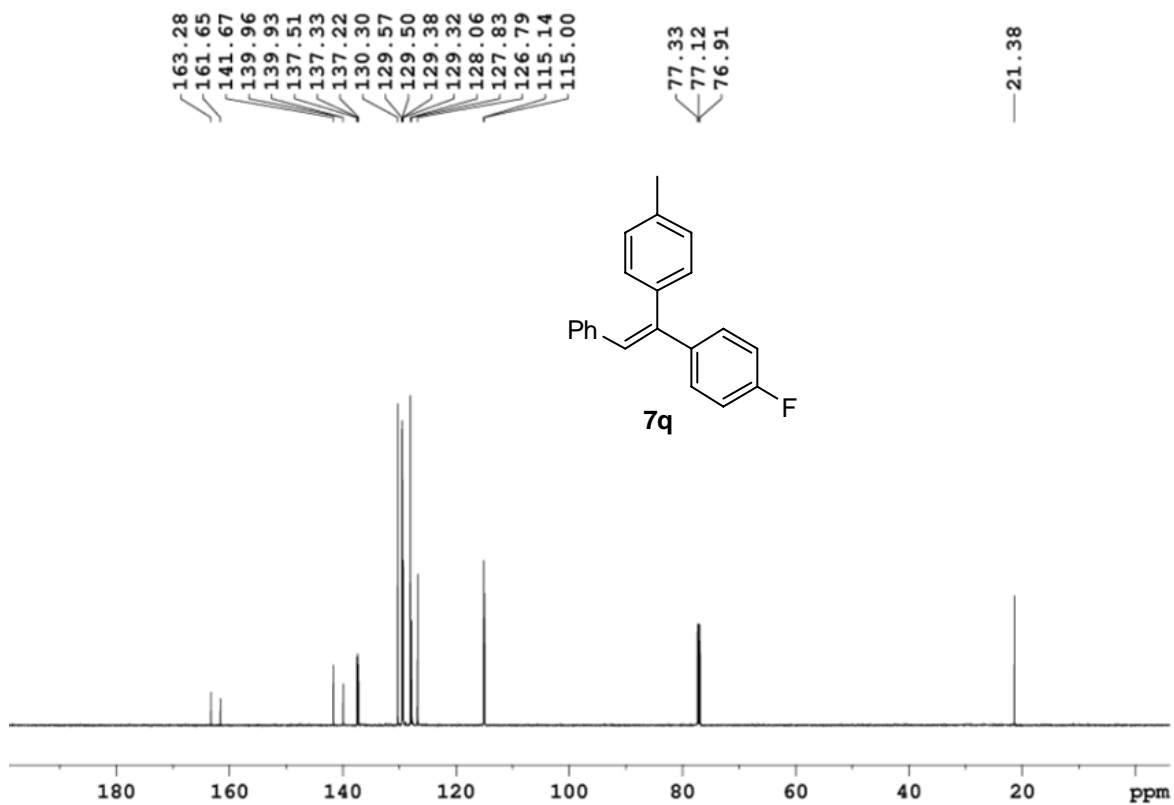
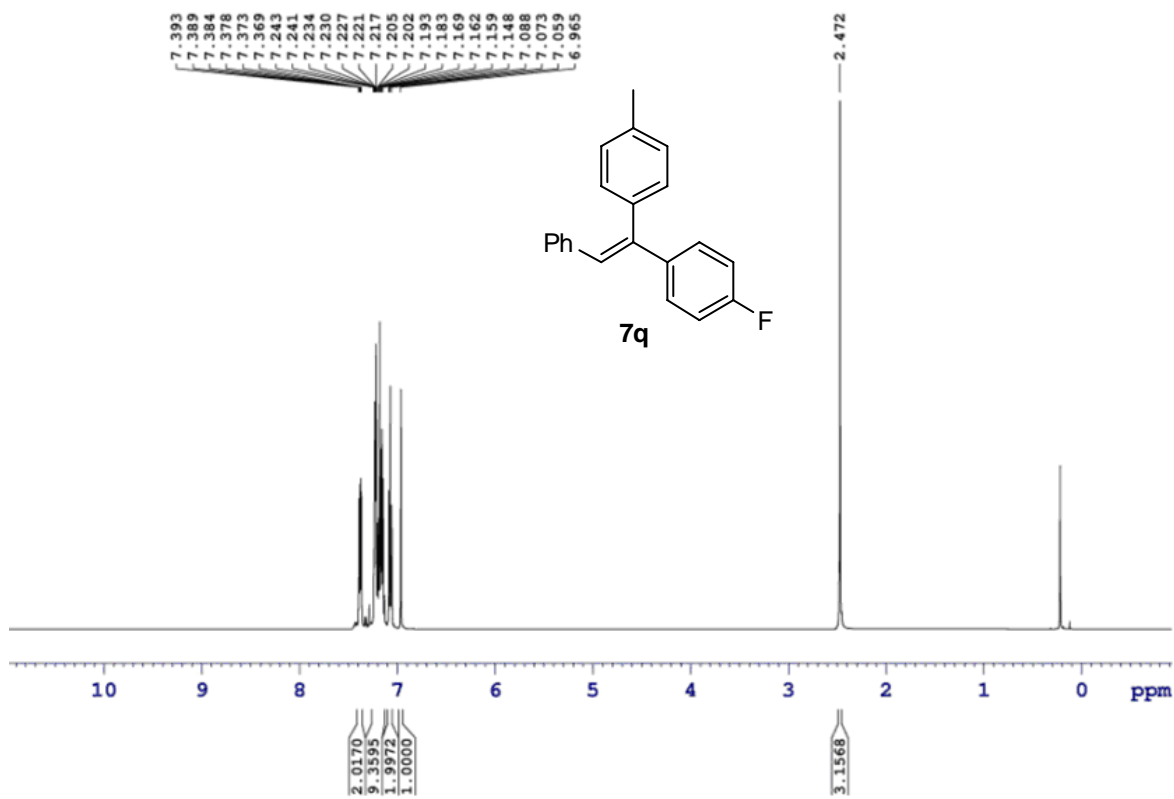


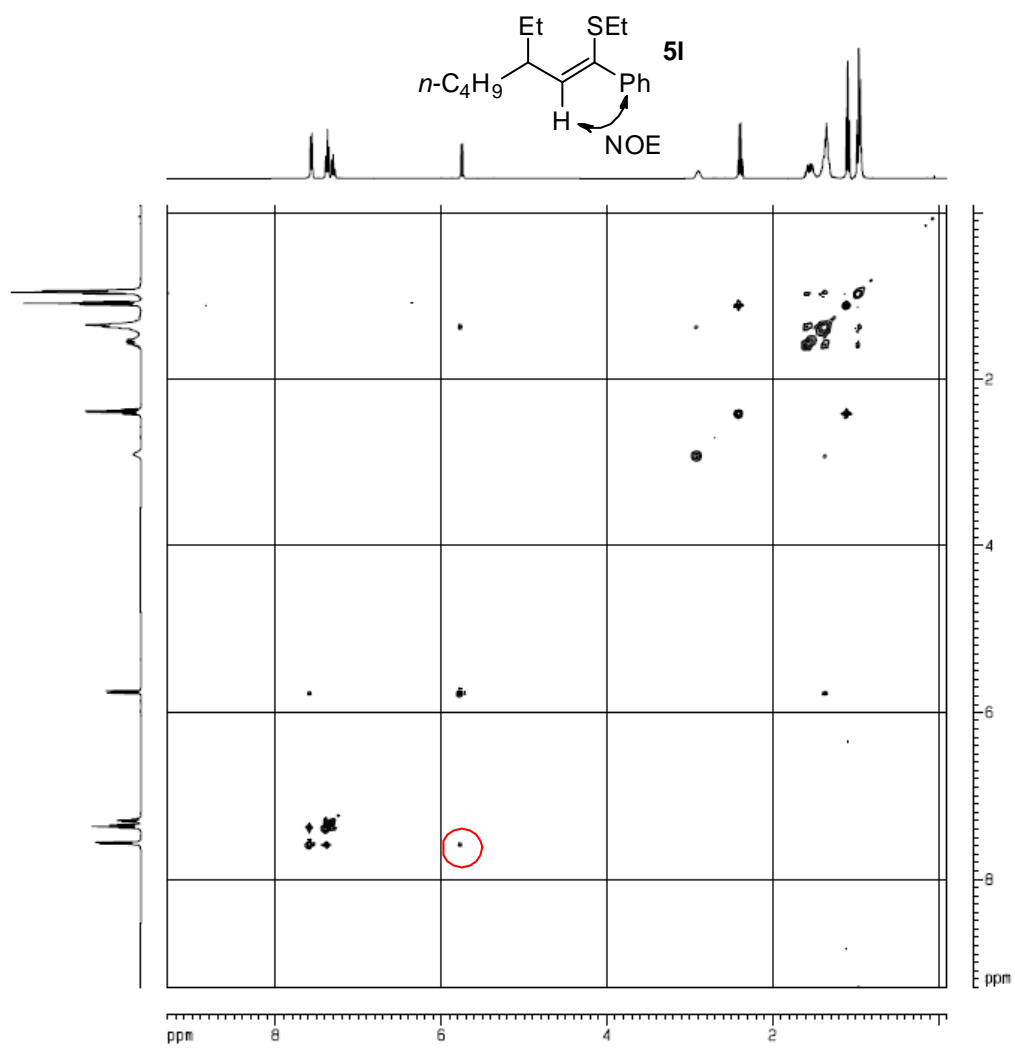
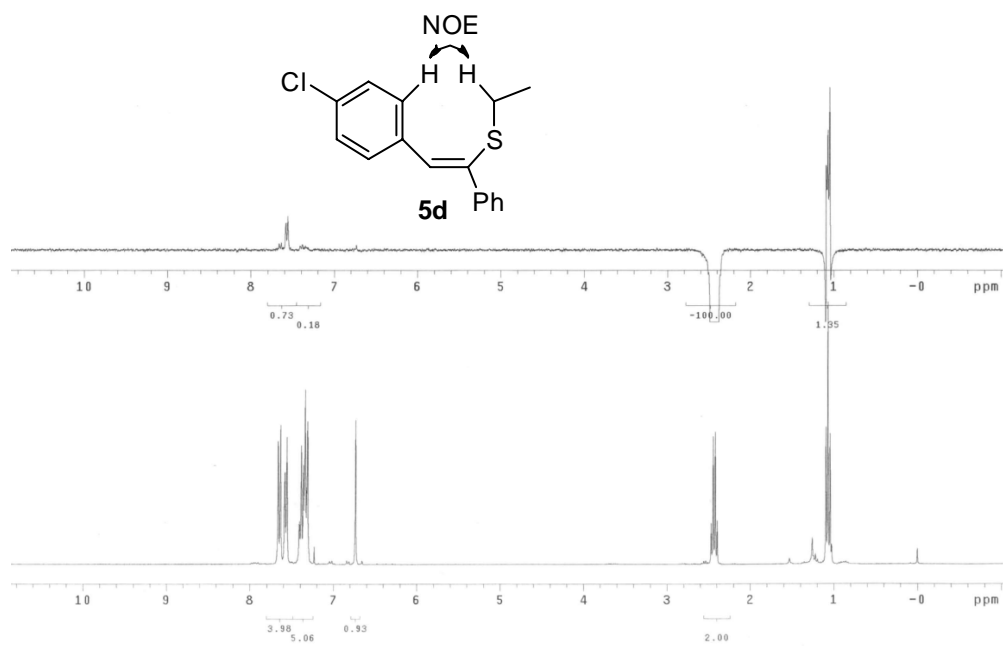


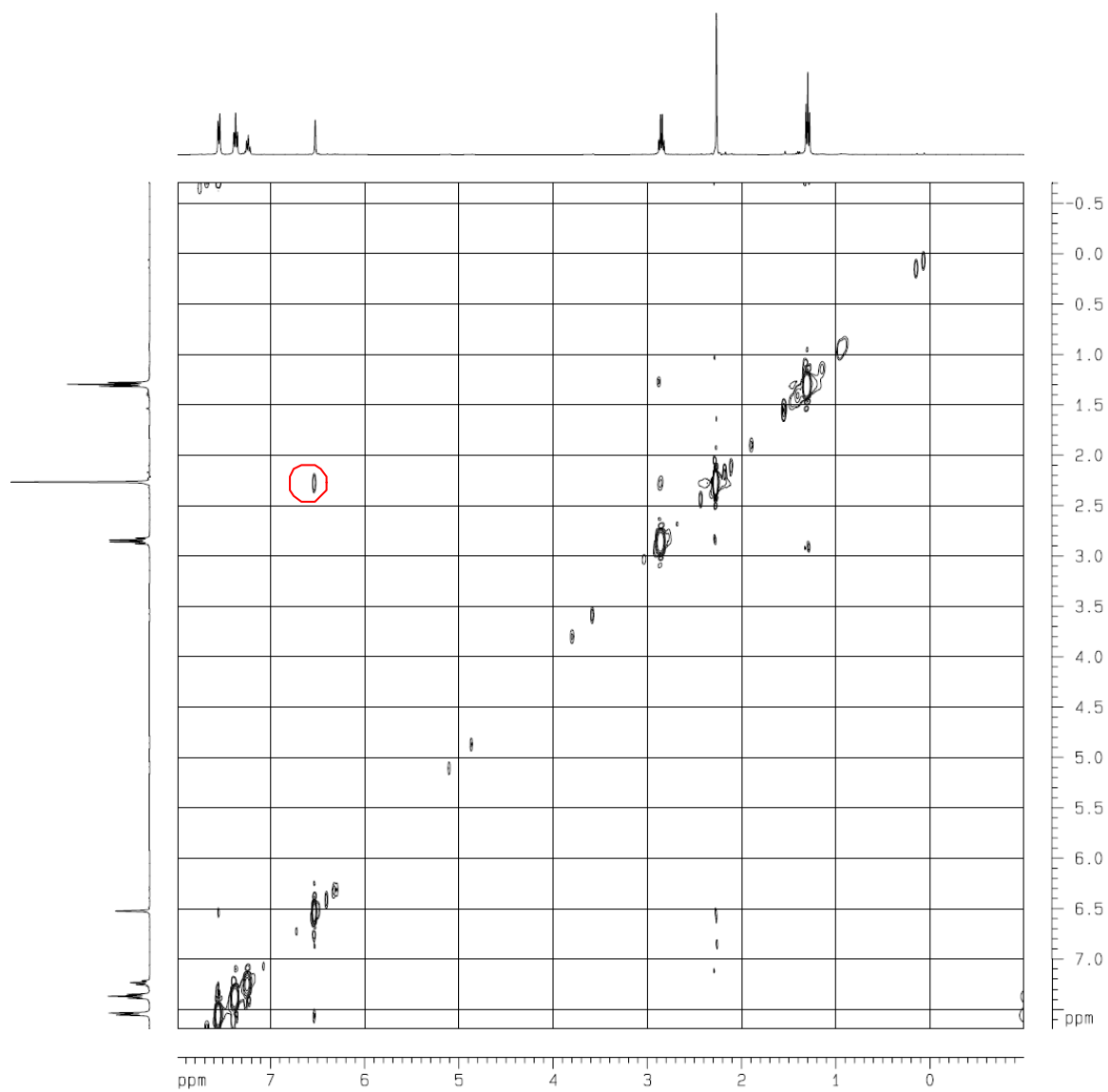
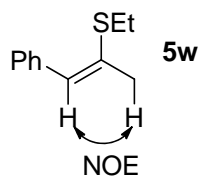


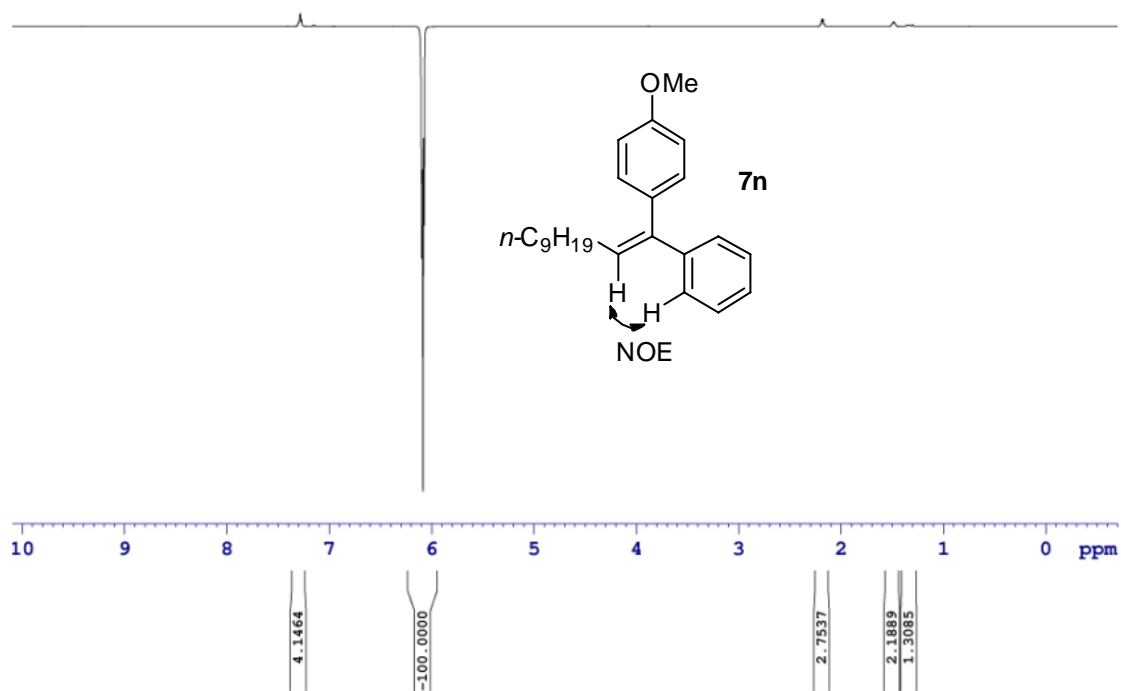
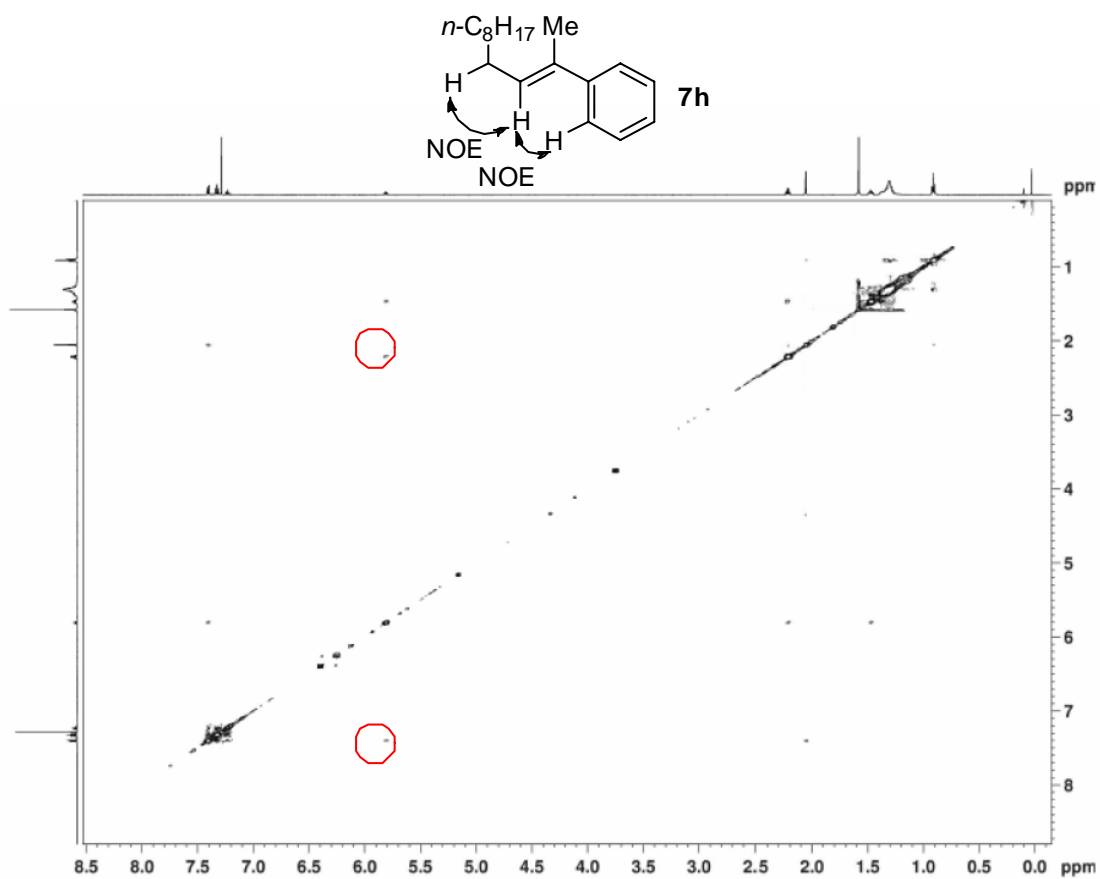


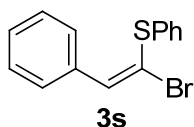












Crystal data for **3s** (C₁₄H₁₁BrS, 291.20) orthorhombic, space group *P2(1)2(1)2(1)*, *a* = 6.0206(4) Å, *b* = 10.2488(7) Å, *c* = 20.3688(13) Å, volume = 1256.83(14) Å³, *Z* = 4, specimen 0.403 × 0.204 × 0.057 mm³, *T* = 296(2) K, SIEMENS P4 diffractometer, absorption coefficient 3.405 mm⁻¹, reflections collected 8909, independent reflections 2206 [R(int) = 0.0350], refinement by full-matrix least-squares on *F*², data/restraints/parameters 2206/0/145, goodness-of-fit on *F*² = 1.059, final *R* indices [*I* > 2σ(*I*)] R1 = 0.0353, wR2 = 0.0740, *R* indices (all data) R1 = 0.0682, wR2 = 0.0815, largest diff peak and hole 0.573 and -0.371 eÅ⁻³. CCDC 902936 (**3s**) contains the supplementary crystallographic data for this paper. These data can be obtained free of charge from the Cambridge Crystallographic Data Centre via www.ccdc.cam.ac.uk/data_request/cif.

checkCIF/PLATON report

You have not supplied any structure factors. As a result the full set of tests cannot be run.

No syntax errors found. CIF dictionary Interpreting this report

Datablock: a

Bond precision: C-C = 0.0072 Å Wavelength=0.71073
Cell: a=6.0206(4) b=10.2488(7) c=20.3688(13)
 alpha=90 beta=90 gamma=90
Temperature: 296 K

	Calculated	Reported
Volume	1256.84(14)	1256.83(14)
Space group	P 21 21 21	P 21 21 21
Hall group	P 2ac 2ab	P 2ac 2ab
Moiety formula	C14 H11 Br S	C14 H11 Br S
Sum formula	C14 H11 Br S	C14 H11 Br S
Mr	291.20	291.20
Dx, g cm ⁻³	1.539	1.539
Z	4	4
Mu (mm ⁻¹)	3.405	3.405
F000	584.0	584.0
F000'	583.54	
h,k,lmax	7,12,24	7,12,24
Nref	1312 [2206]	2206
Tmin,Tmax	0.439,0.824	0.924,0.970
Tmin'	0.251	

Correction method= EMPIRICAL

Data completeness= 1.68/1.00 Theta(max)= 24.980

R(reflections)= 0.0353(1546) wR2(reflections)= 0.0815(2206)

S = 1.059 Npar= 145

The following ALERTS were generated. Each ALERT has the format

test-name_ALERT_alert-type_alert-level.

Click on the hyperlinks for more details of the test.

Alert level C

PLAT241_ALERT_2_C	Check High	Ueq as Compared to Neighbors for	S2
PLAT242_ALERT_2_C	Check Low	Ueq as Compared to Neighbors for	C9
PLAT341_ALERT_3_C	Low Bond Precision on	C-C Bonds	0.0072 Ang

Datablock a - ellipsoid plot

