

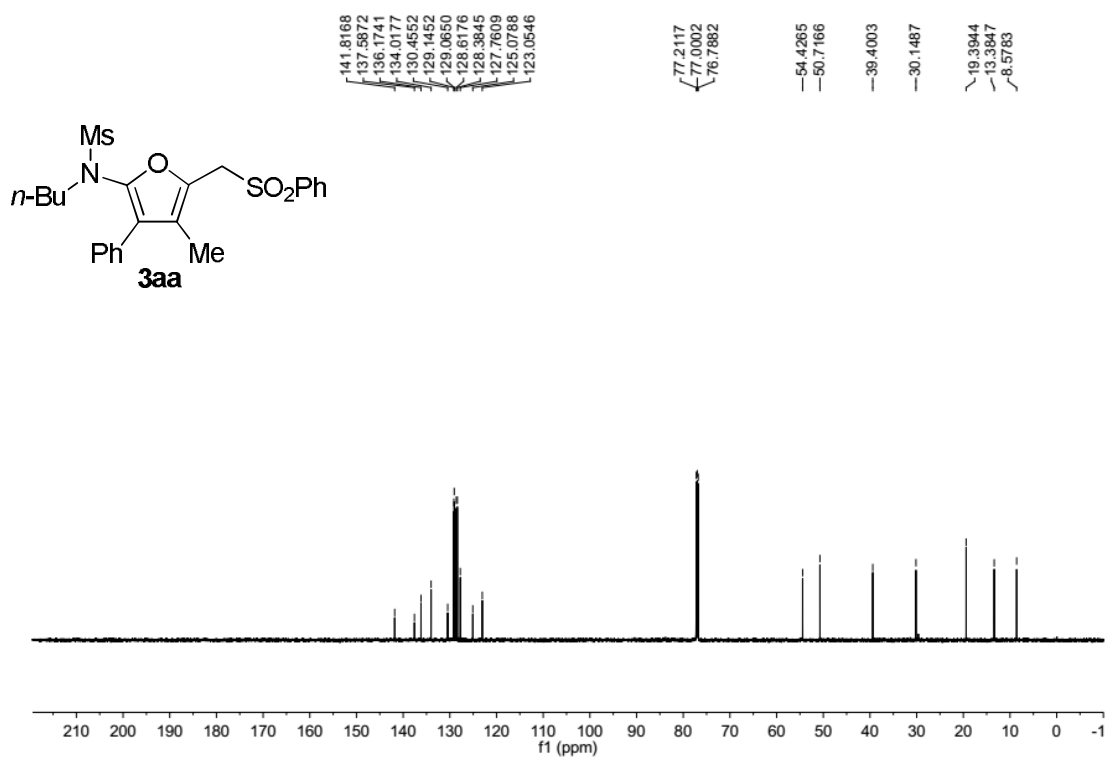
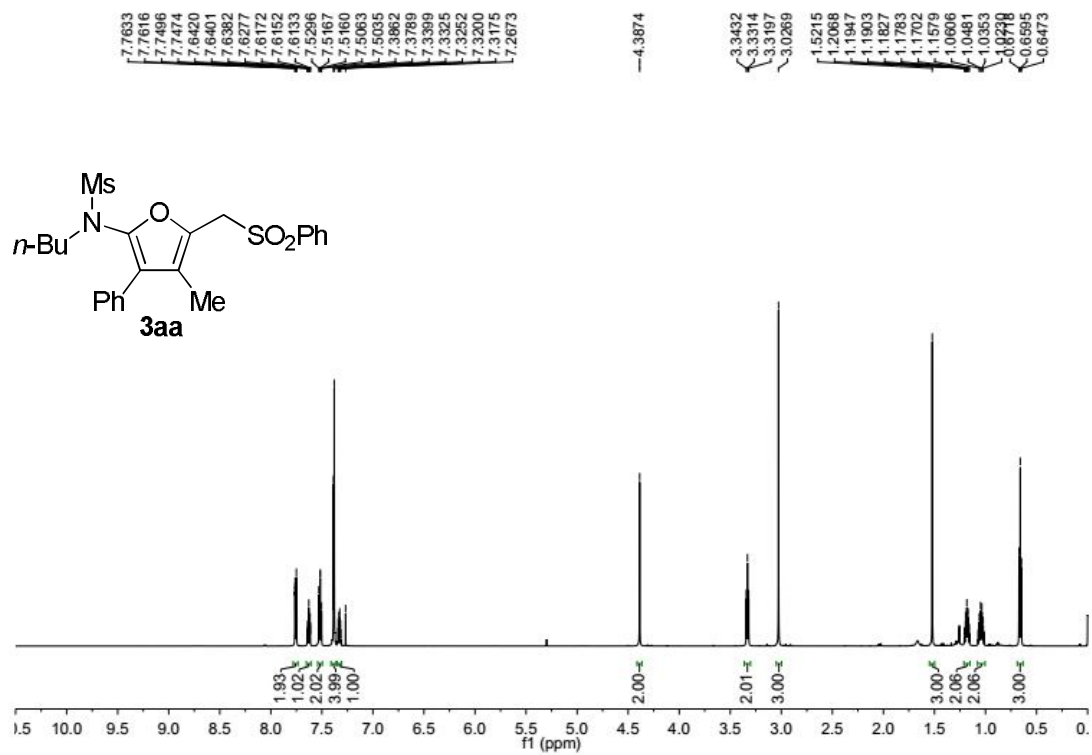
Supporting Information to

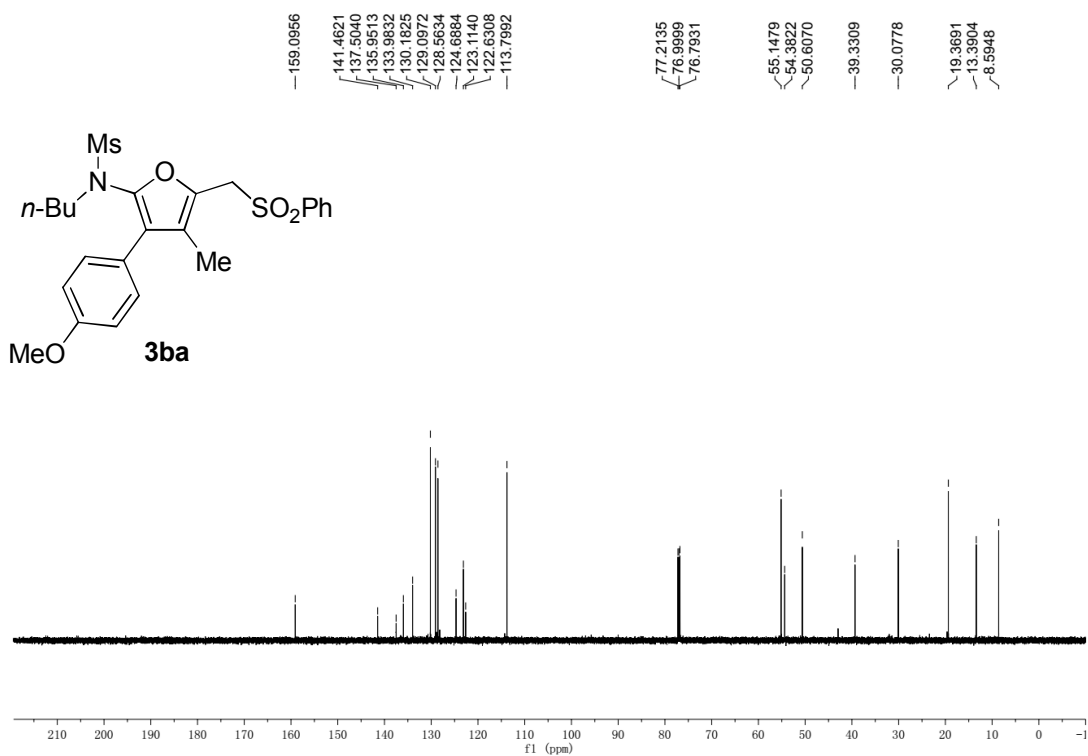
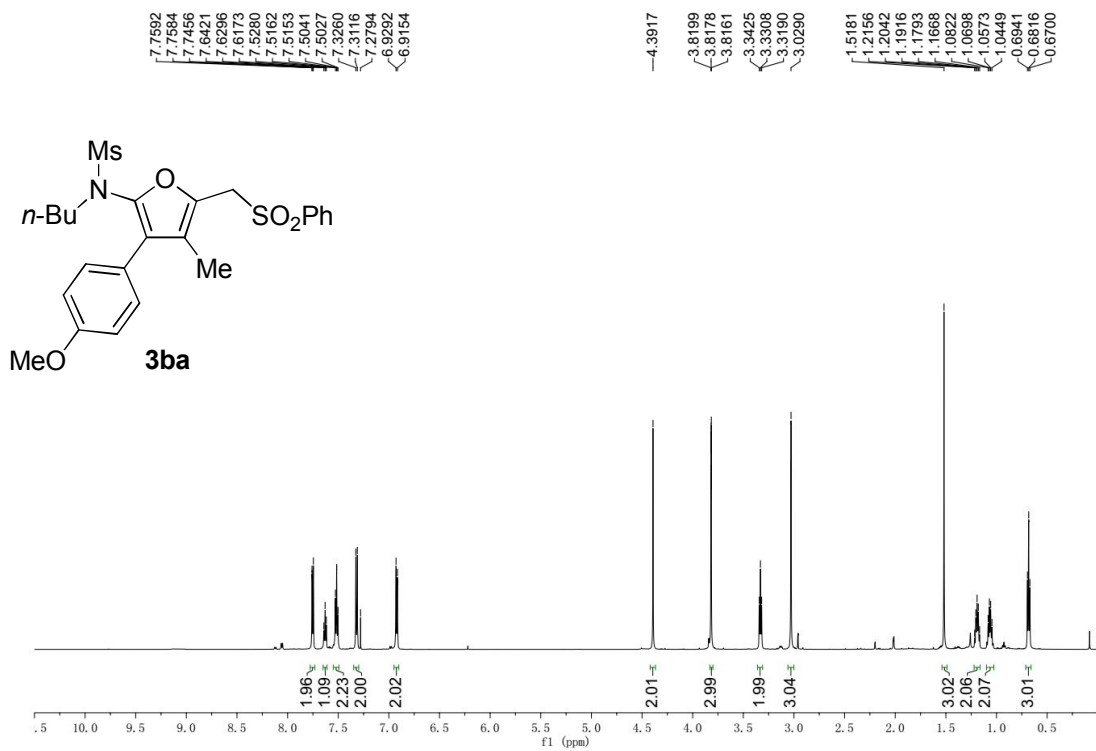
Palladium-catalyzed tandem cyclization/sulfonylation of homoallenyl amides
with sodium sulfinates

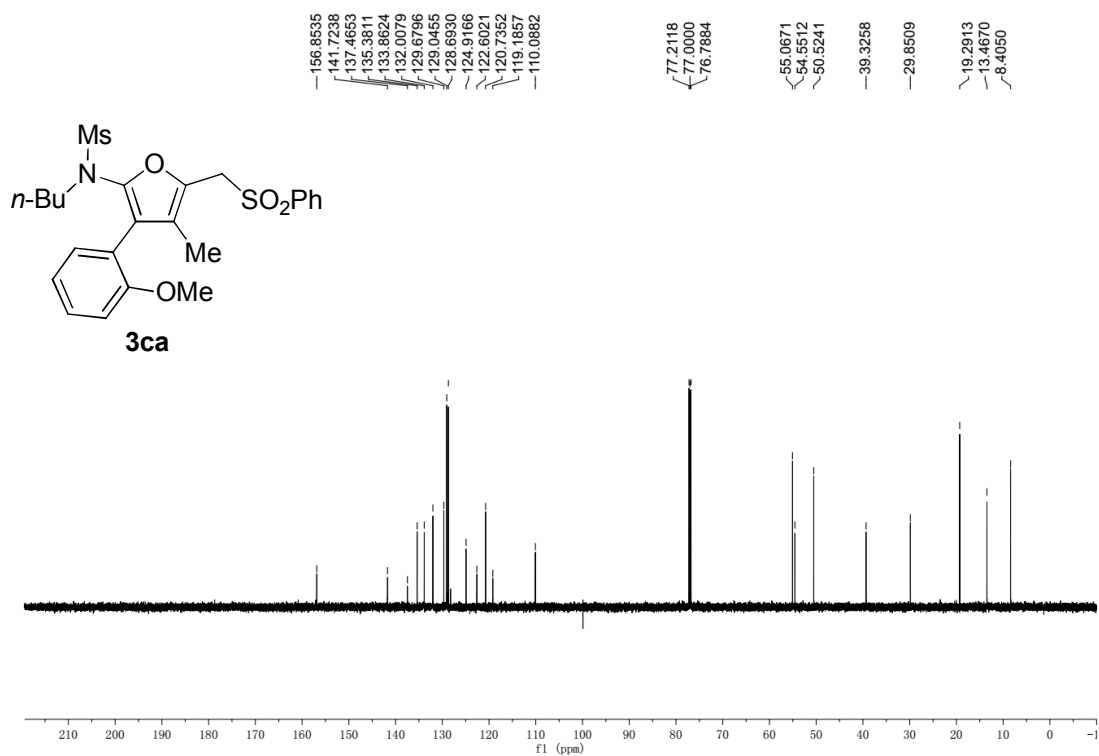
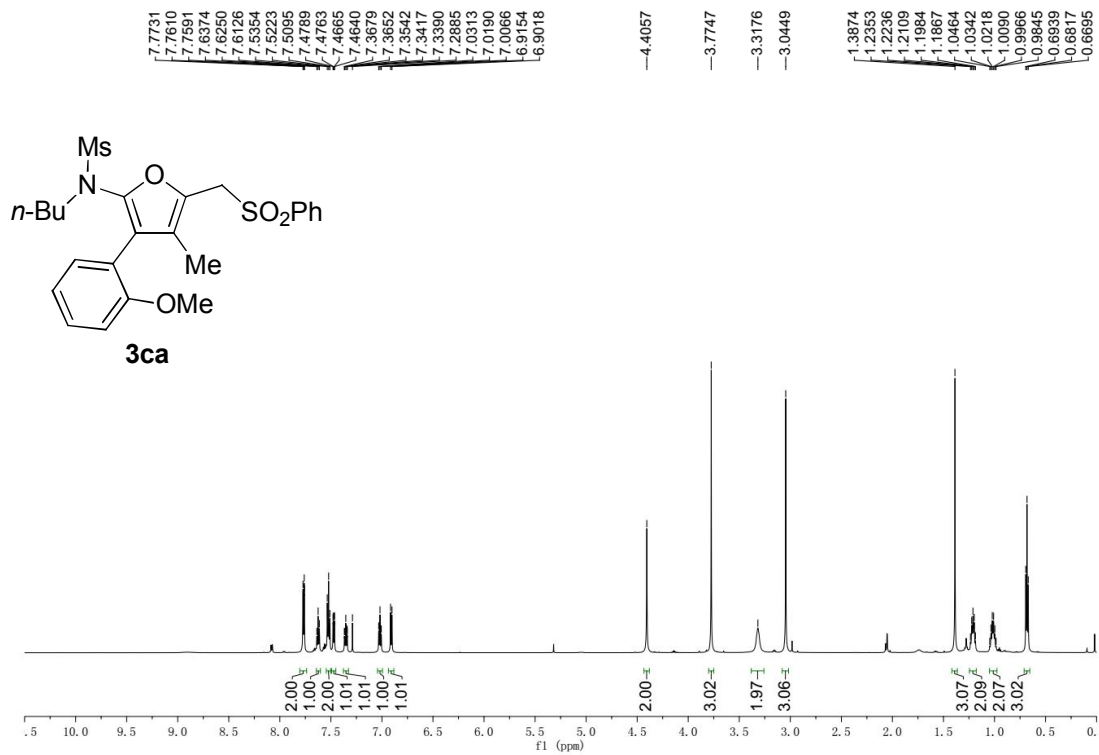
Yimei Wan, Jian Zhang, Yongtao Chen, Lichun Kong, Fang Luo* and Gangguo Zhu*

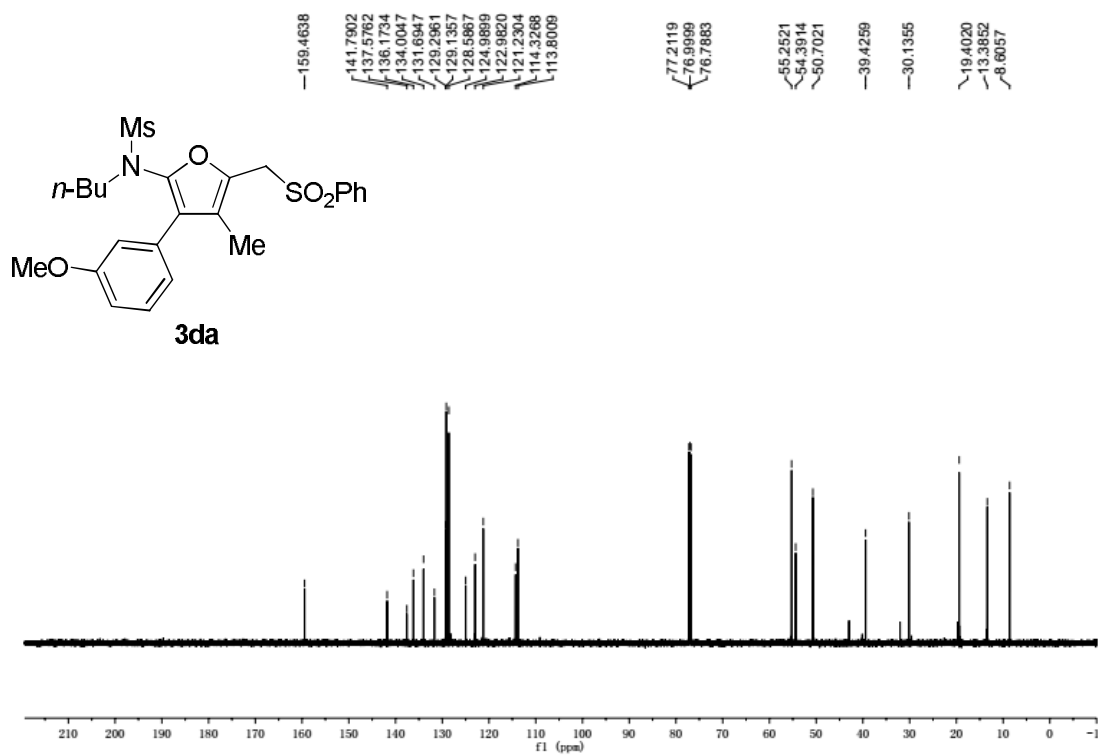
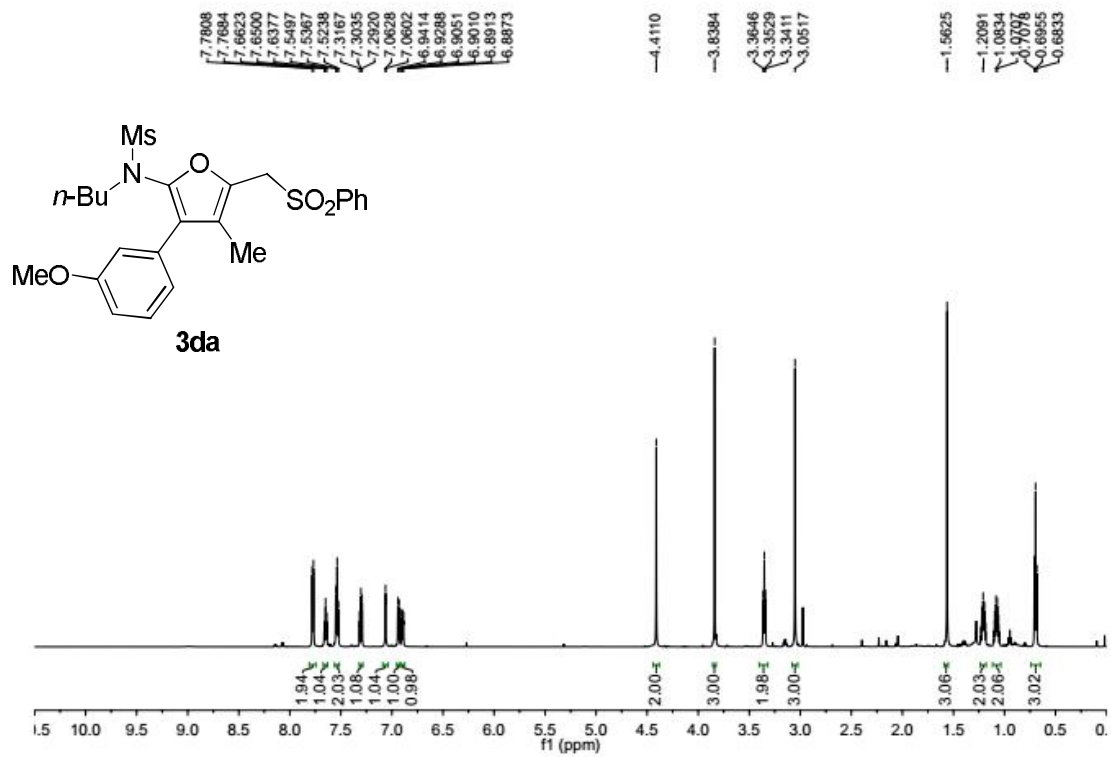
*Department of Chemistry, Zhejiang Normal University, 688 Yingbin Road, Jinhua 321004,
PR China. luofang19@zjnu.cn and gangguo@zjnu.cn*

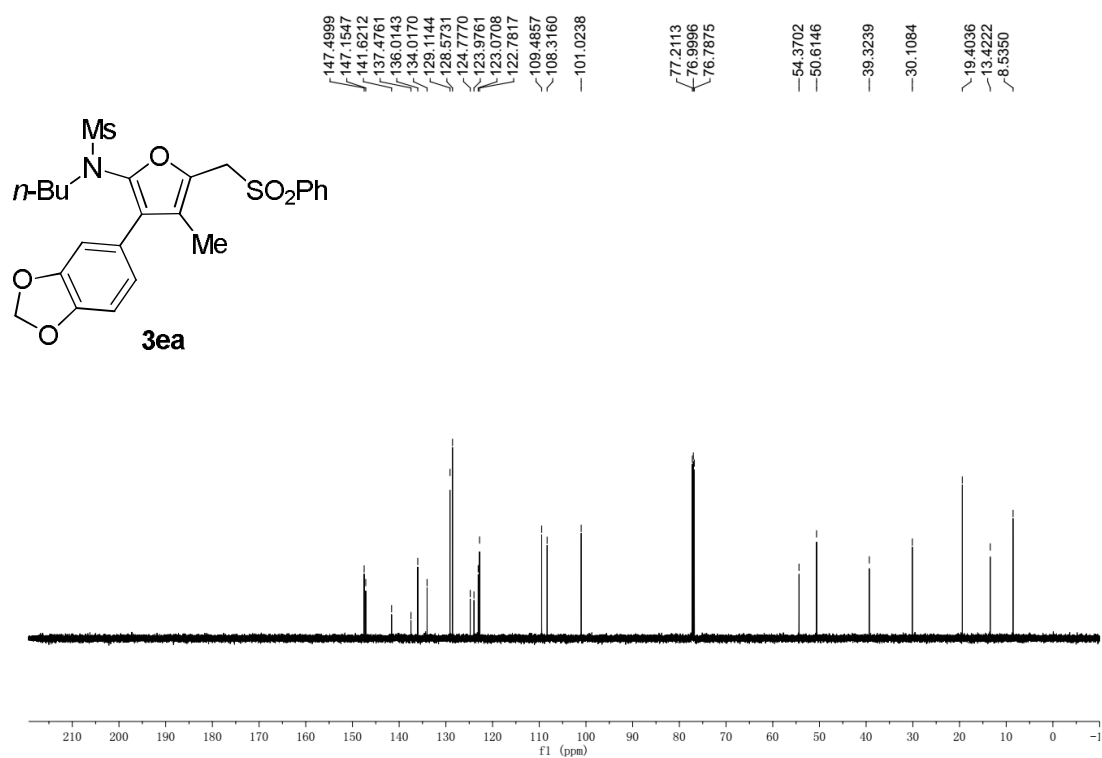
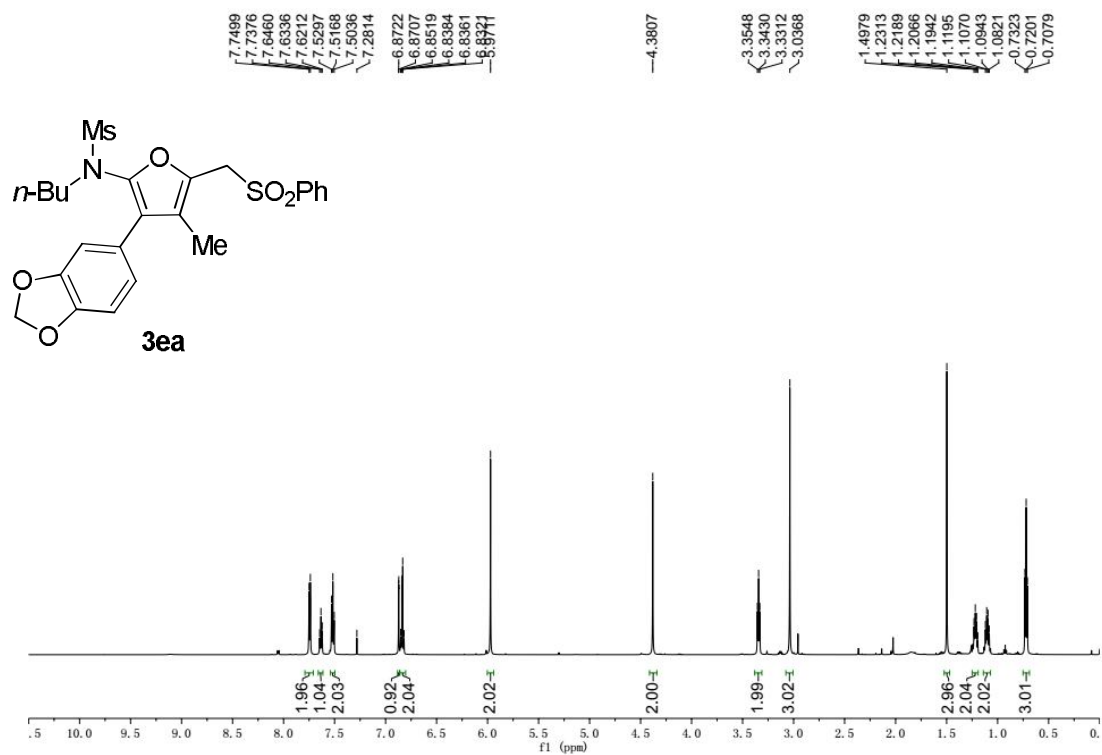
NMR spectra.....	S2-S33
X-Ray data of 3aa.....	S34-S37

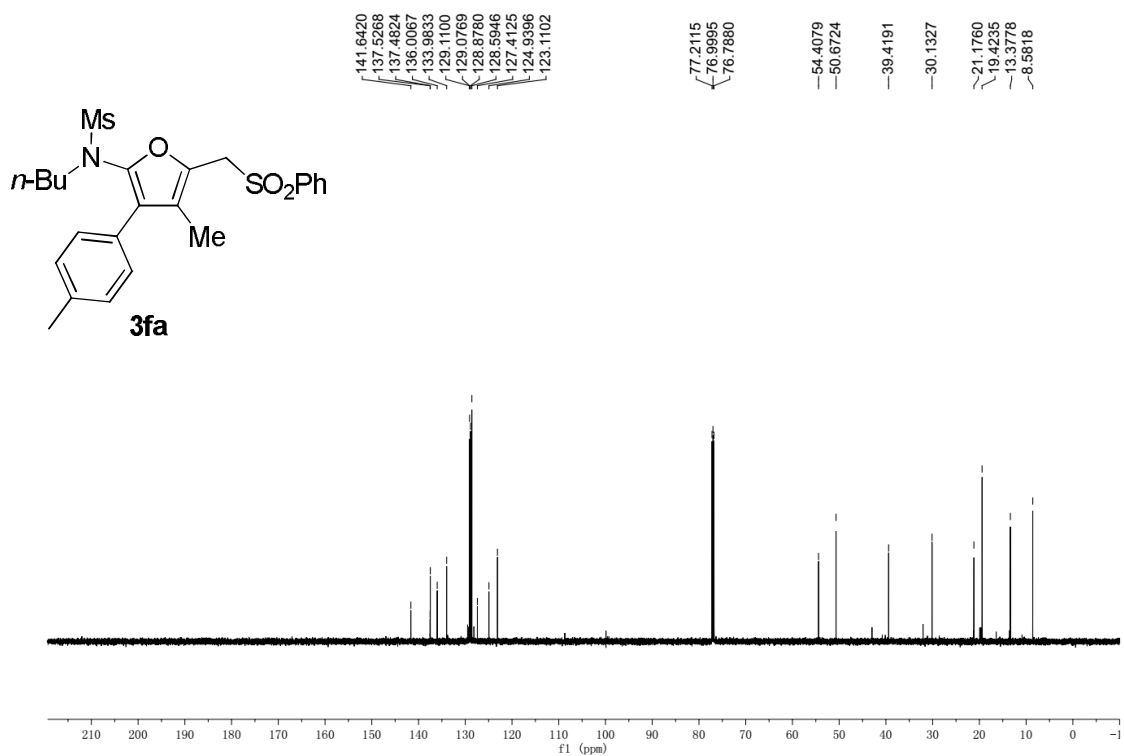
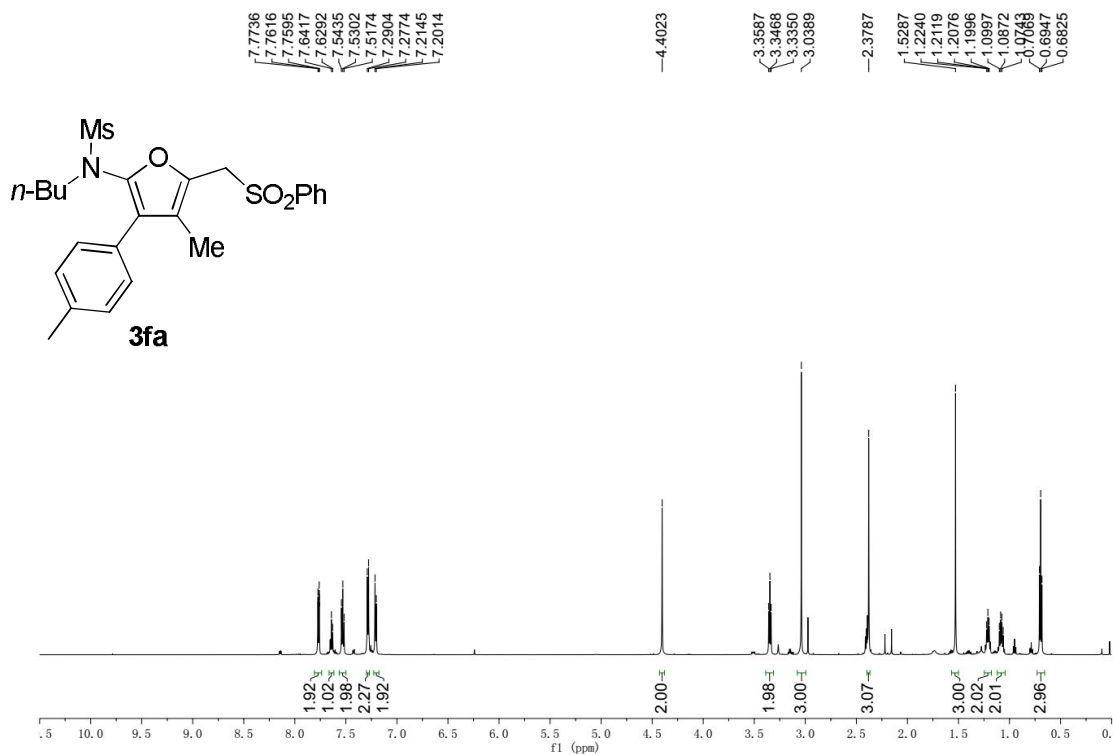


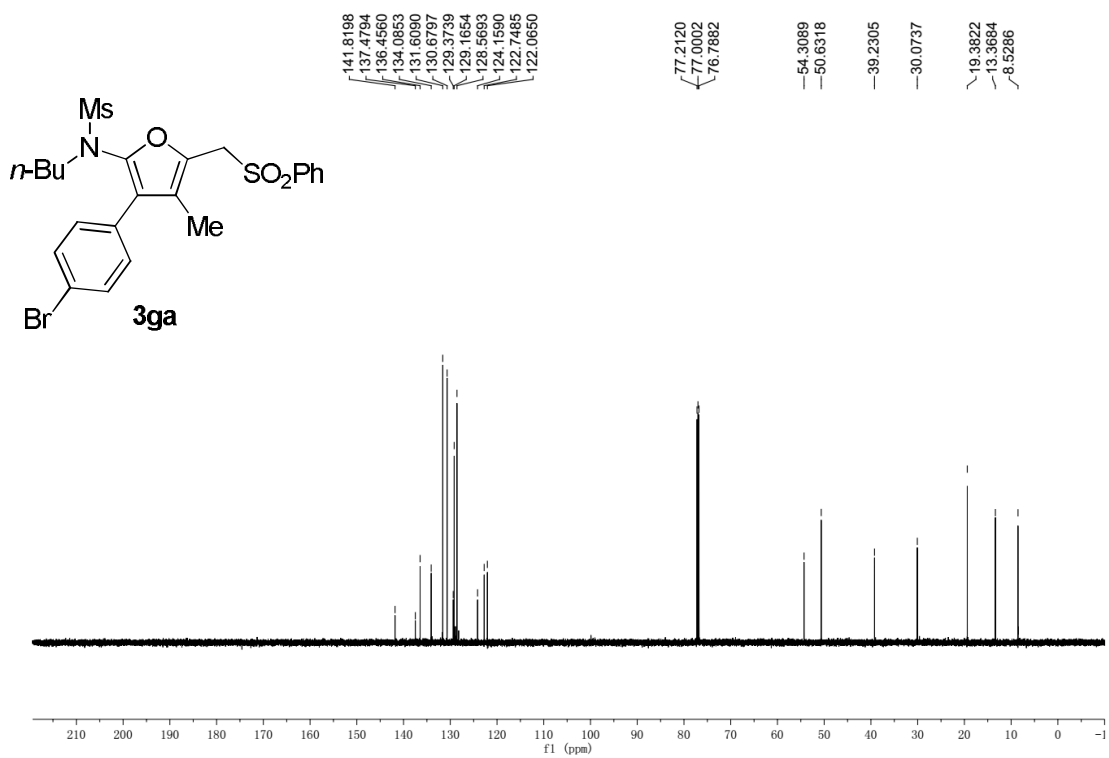
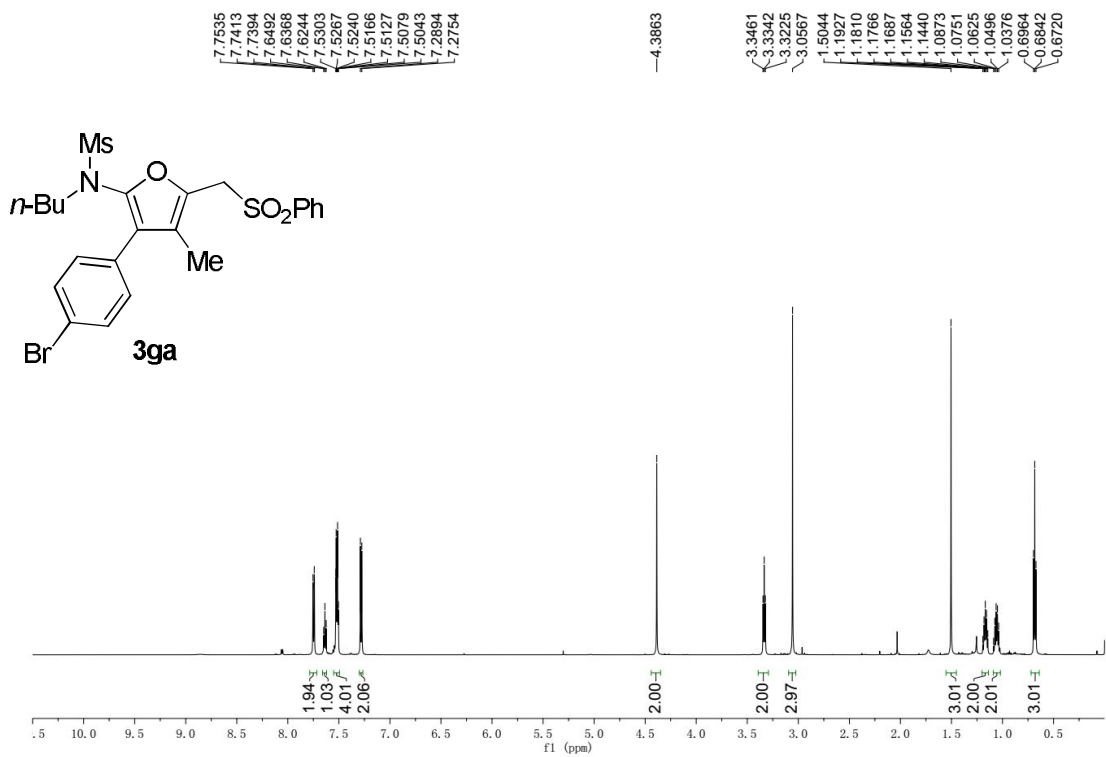


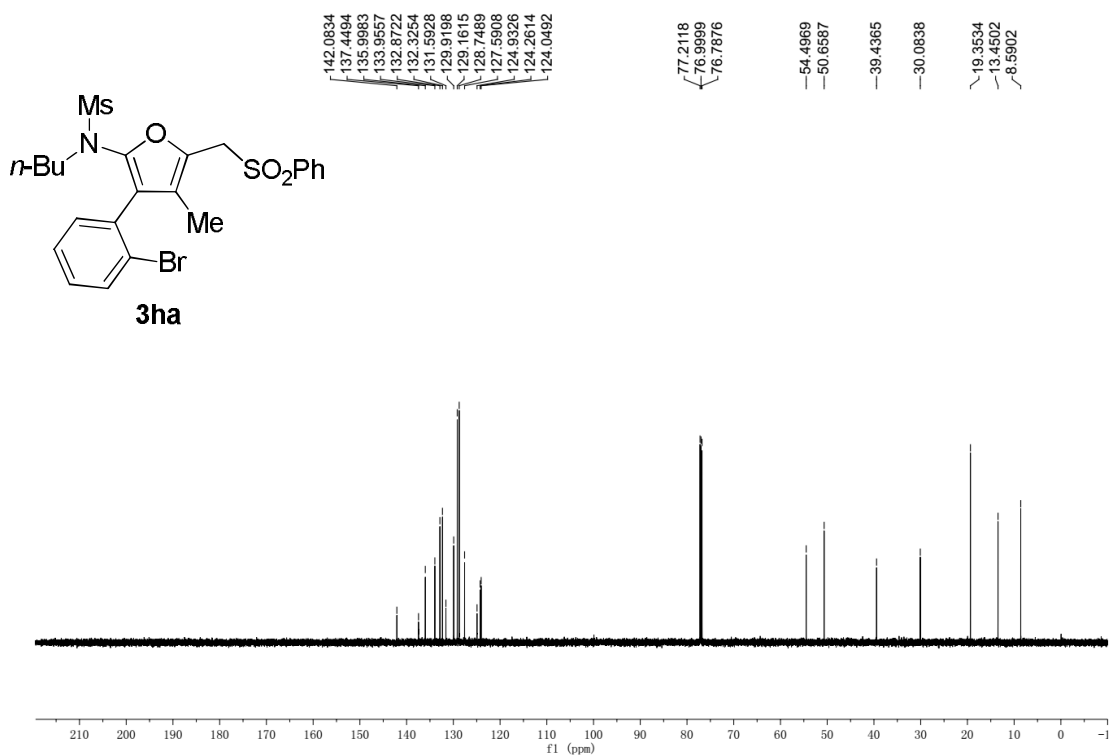
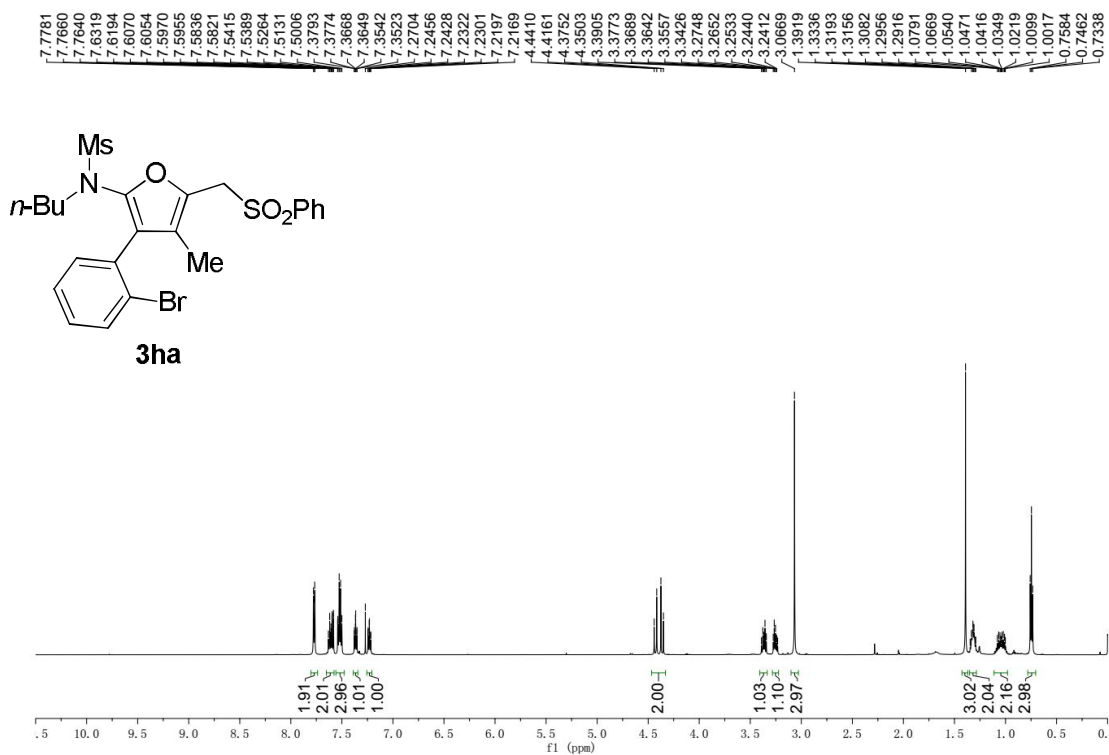


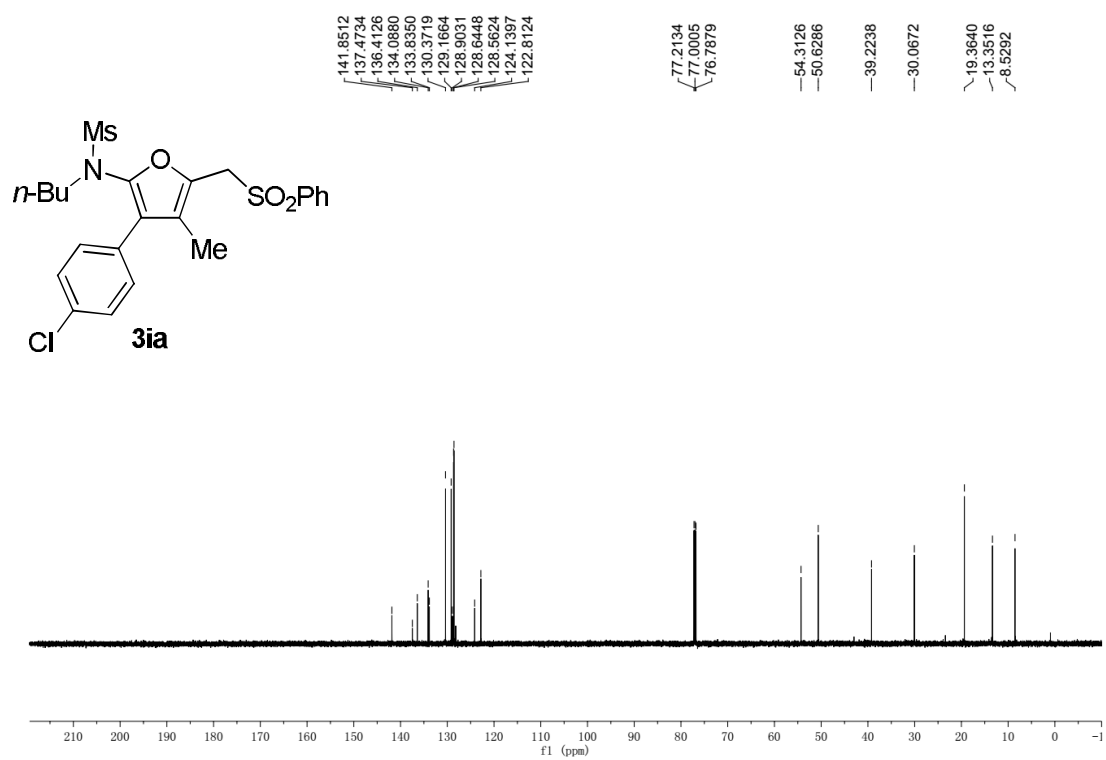
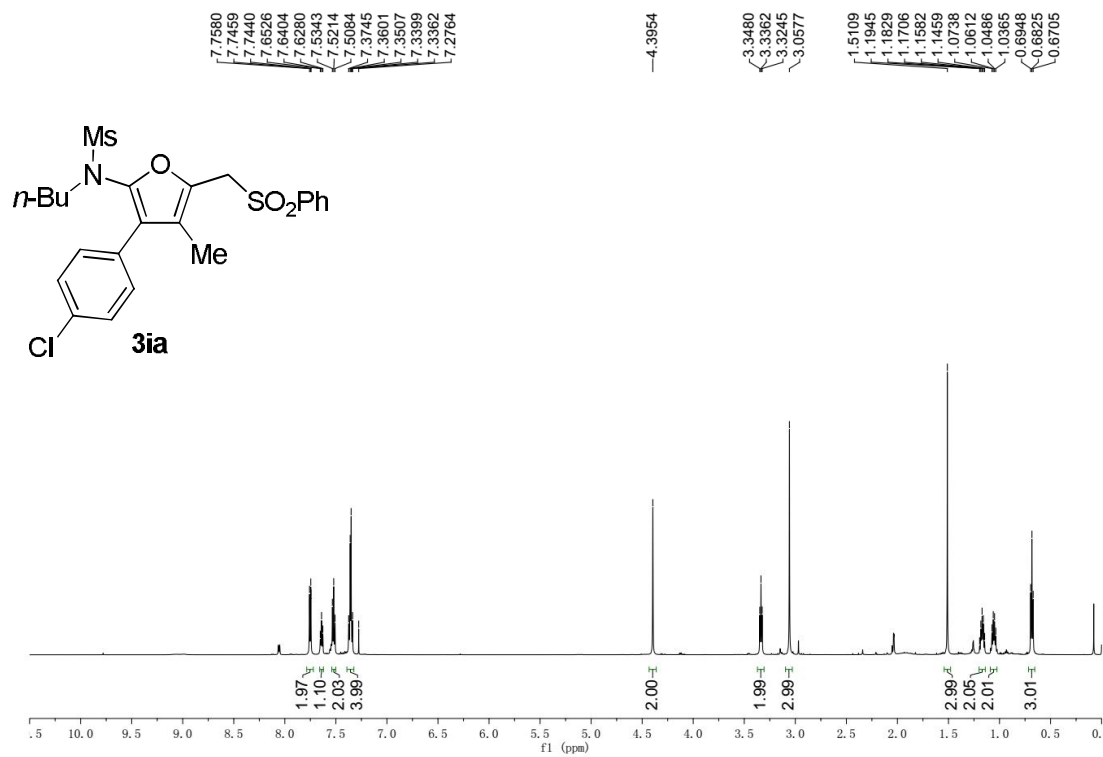


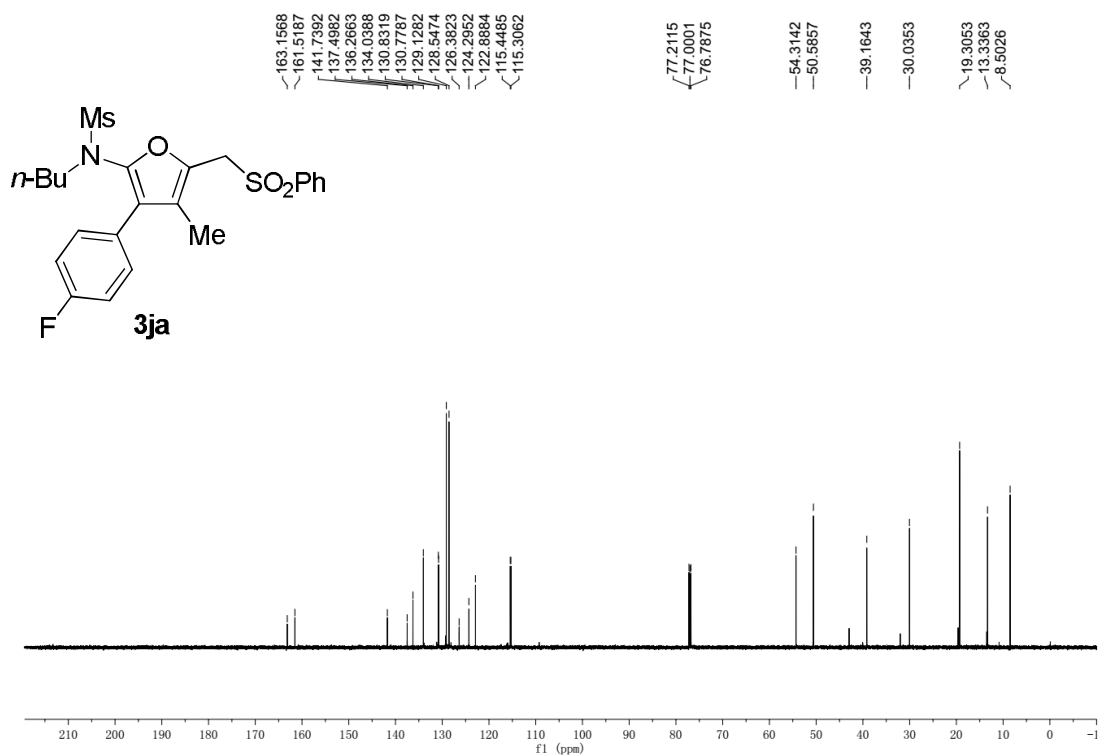
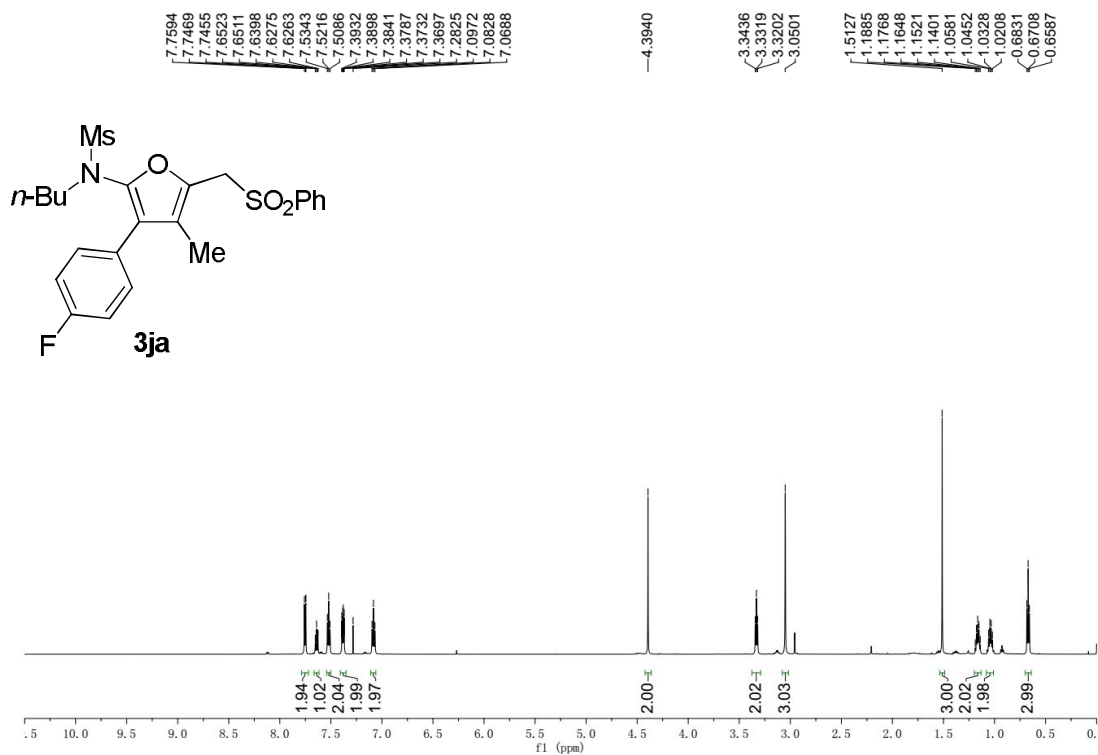


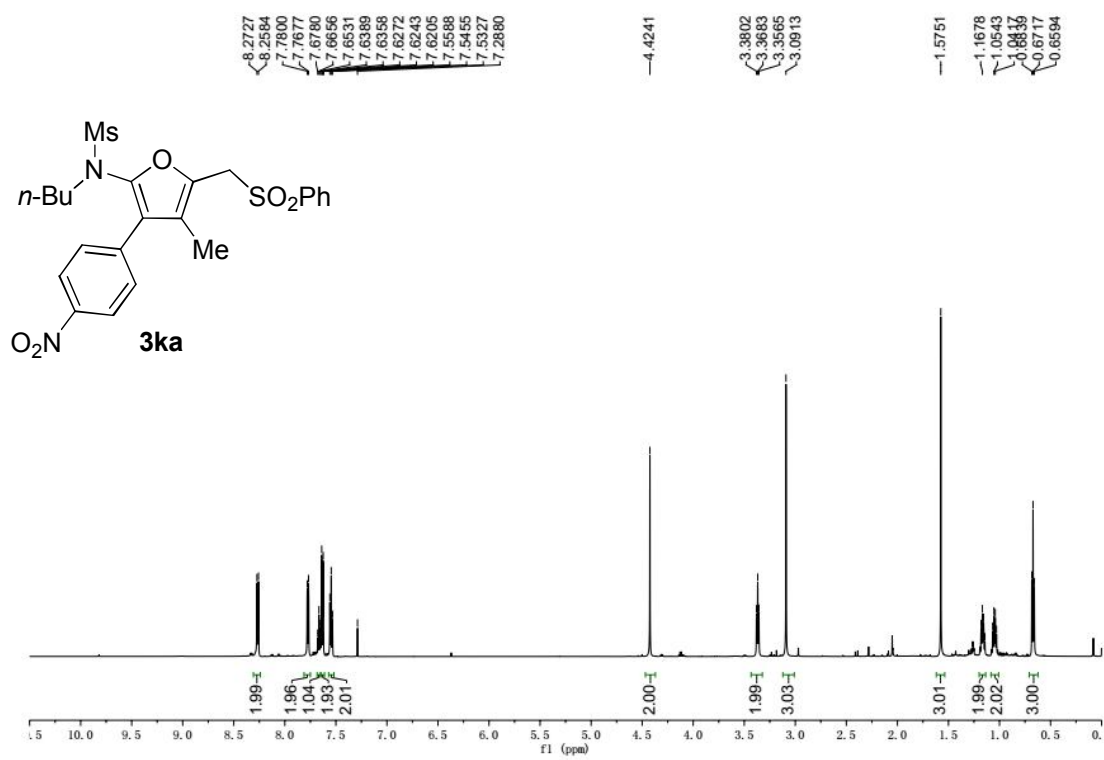
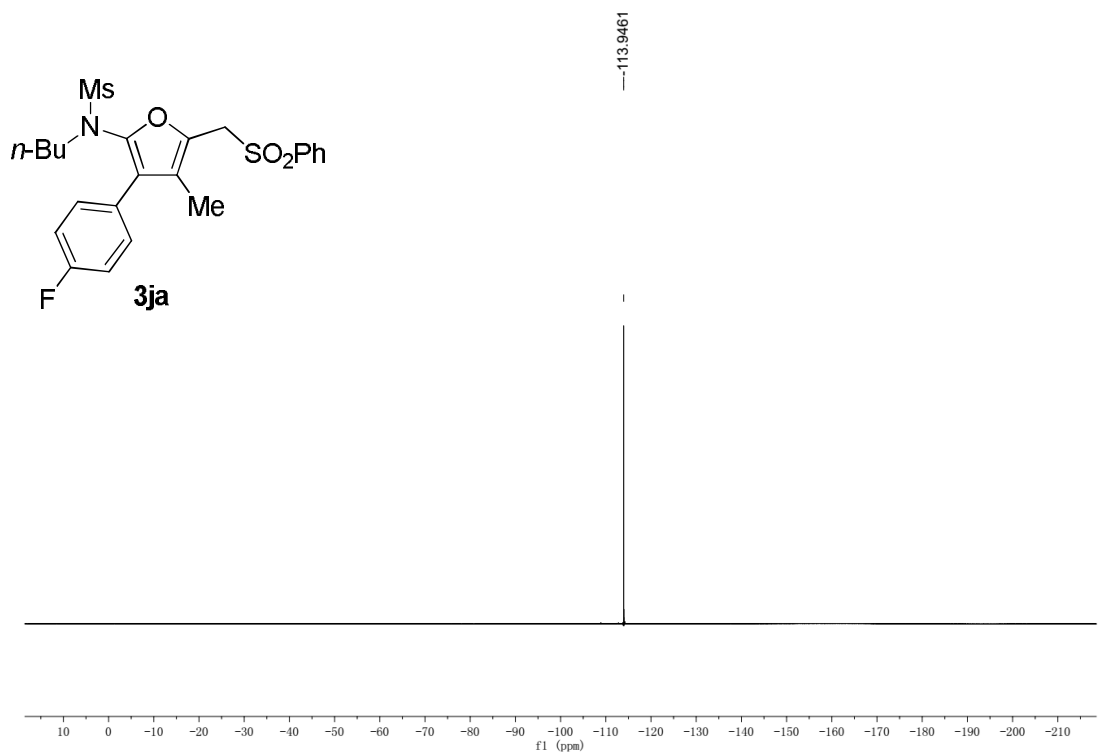


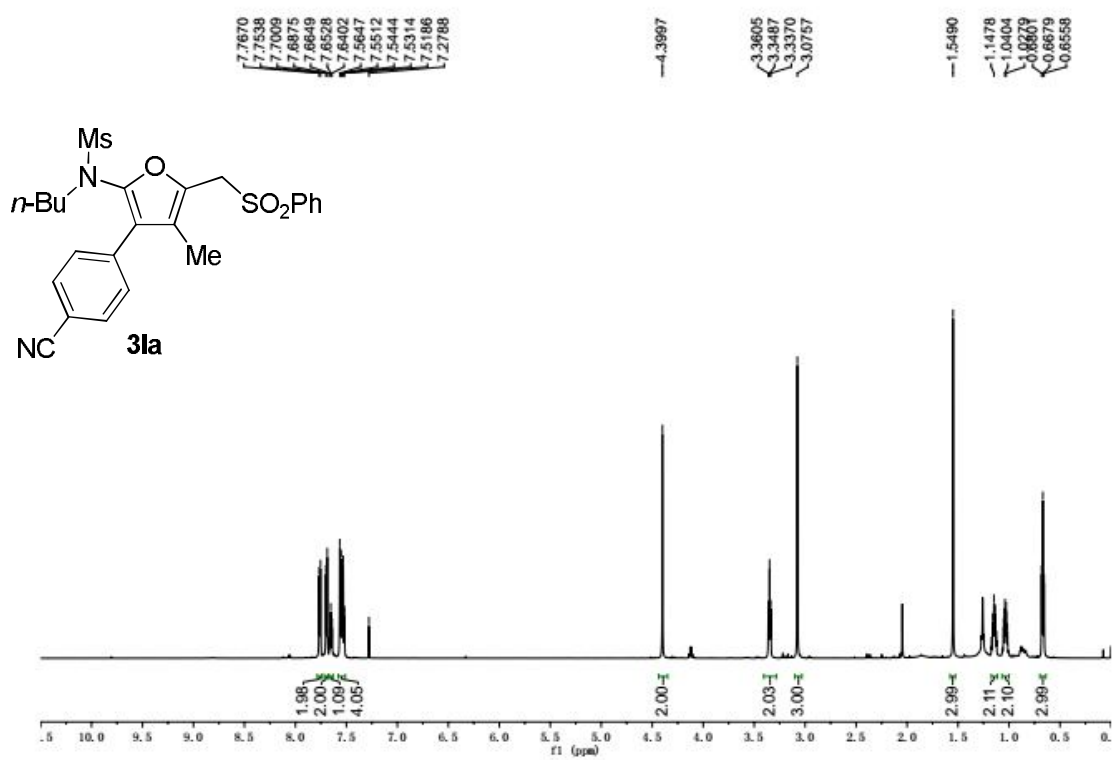
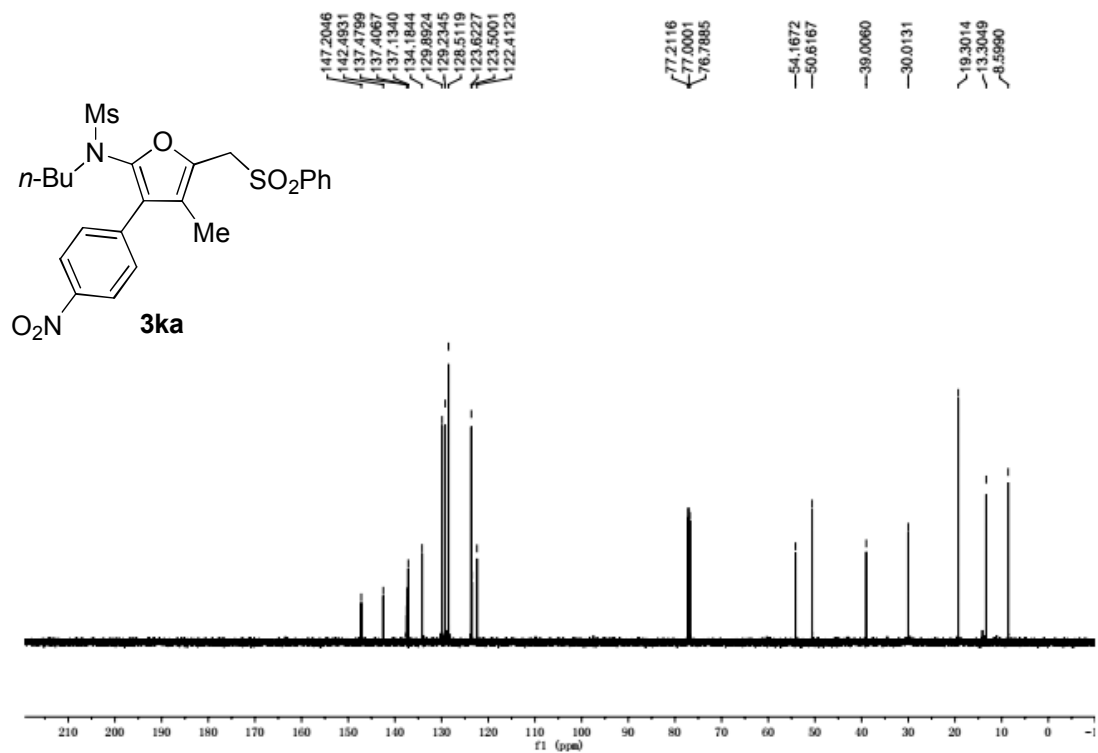


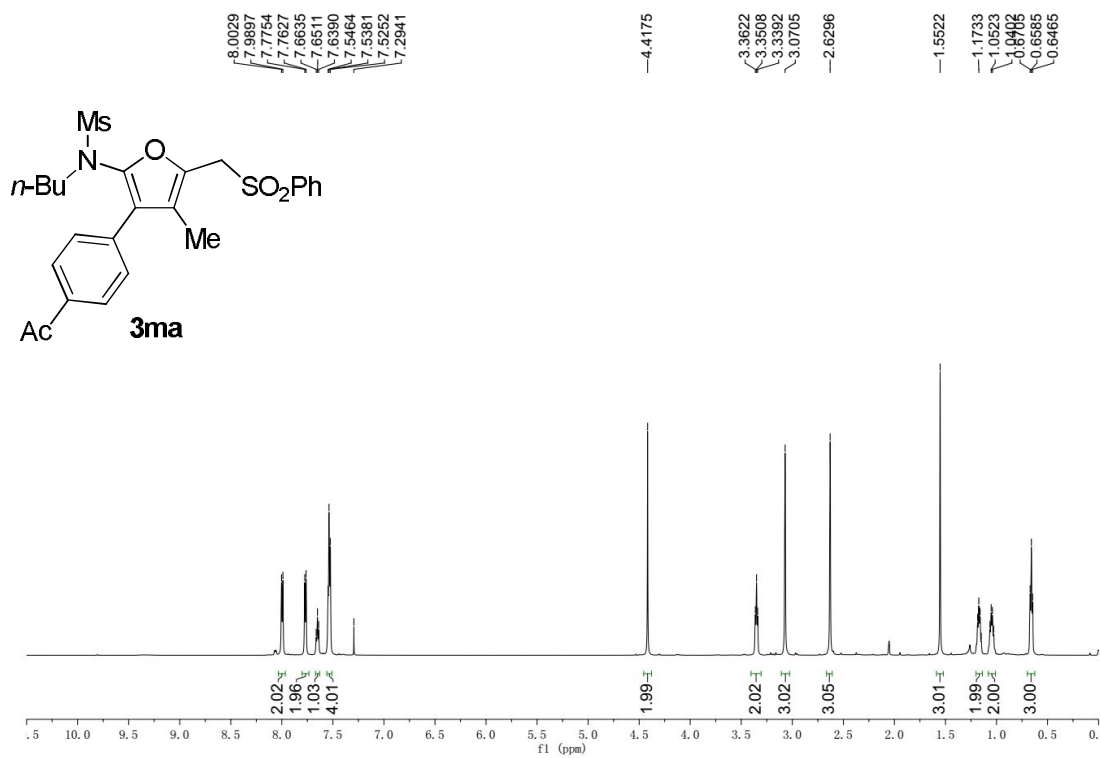
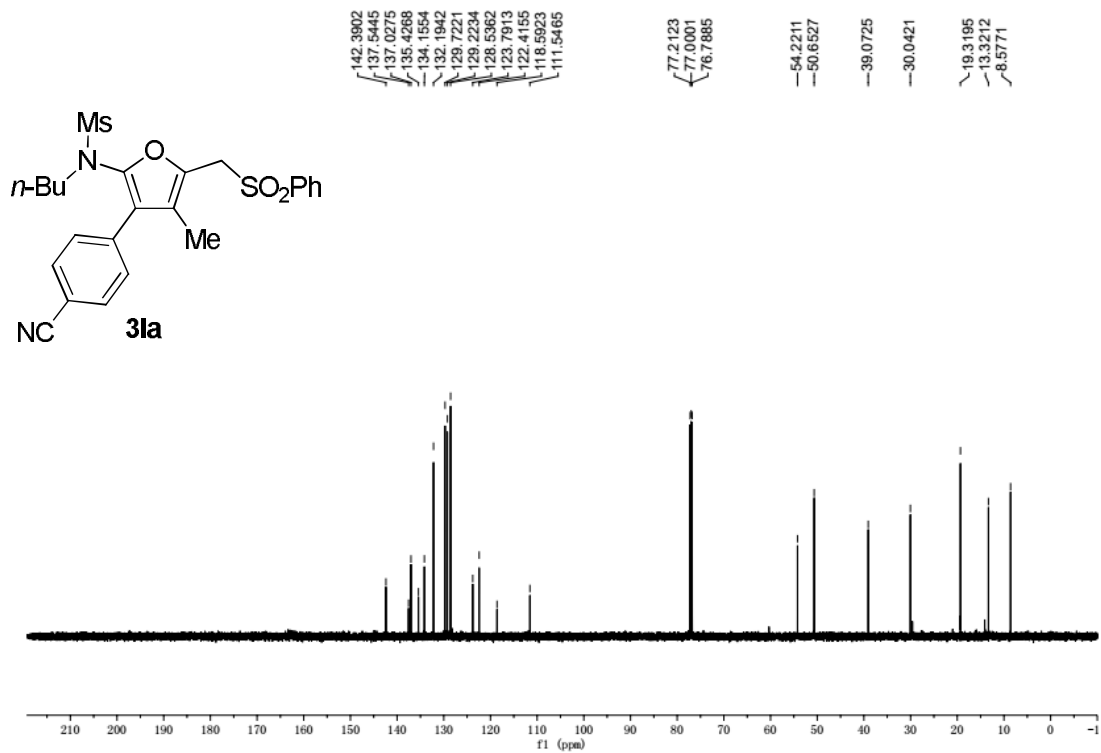


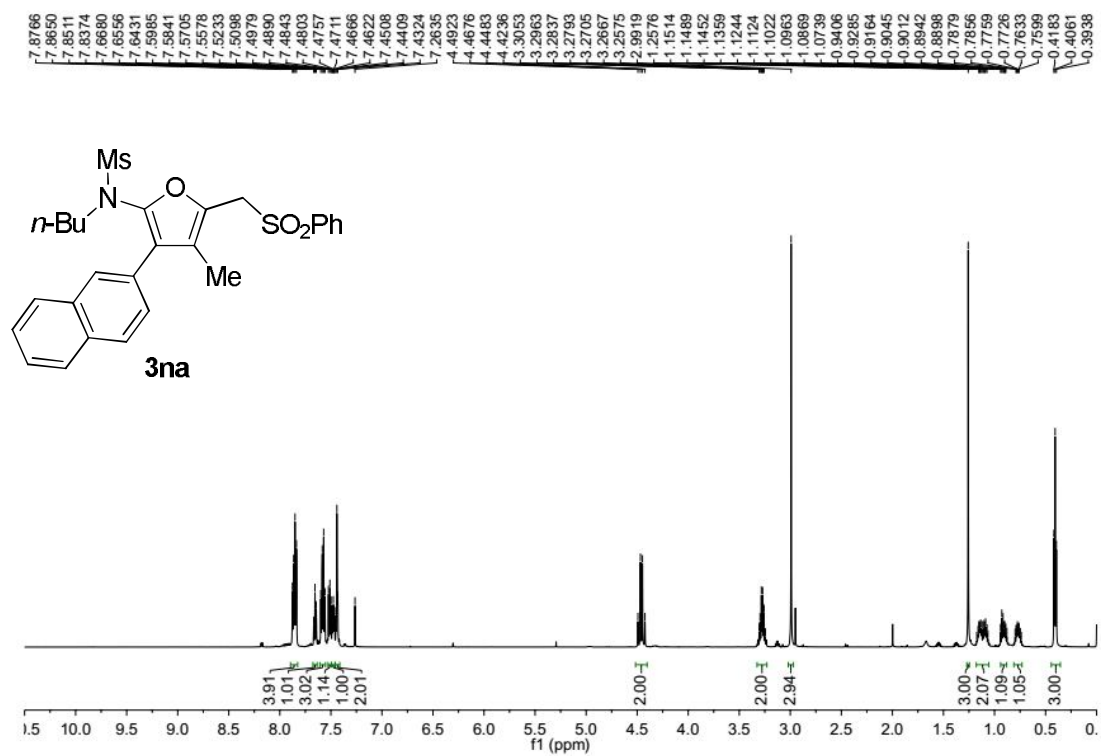
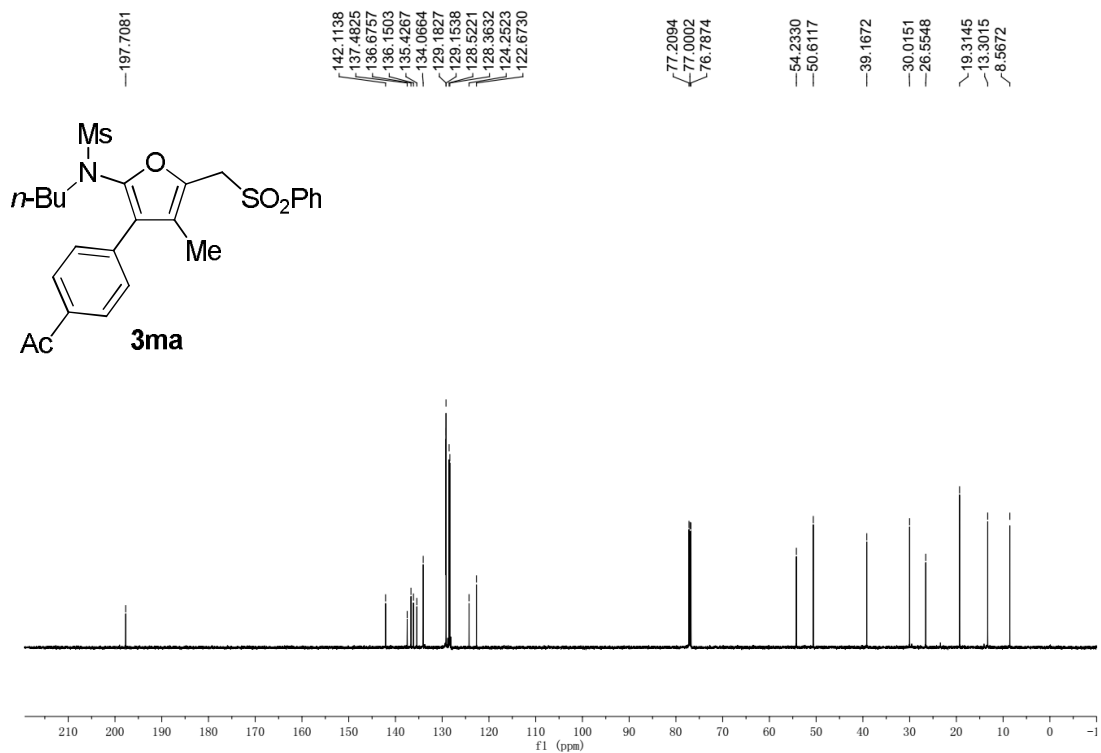


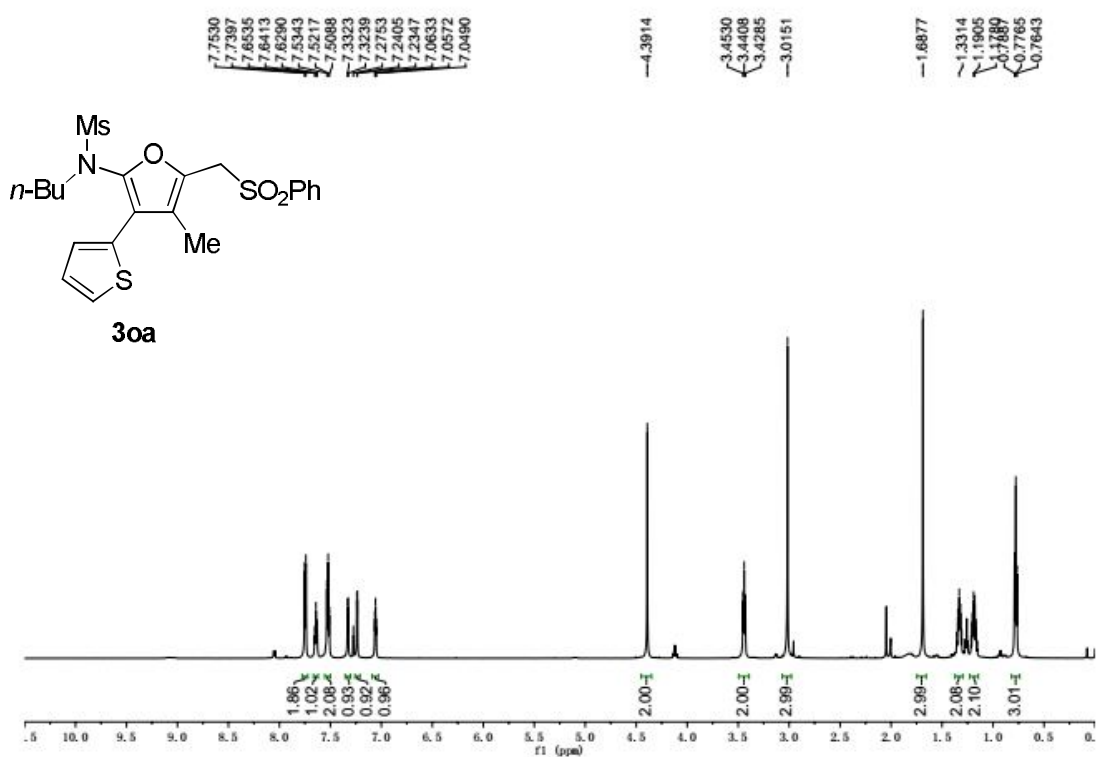
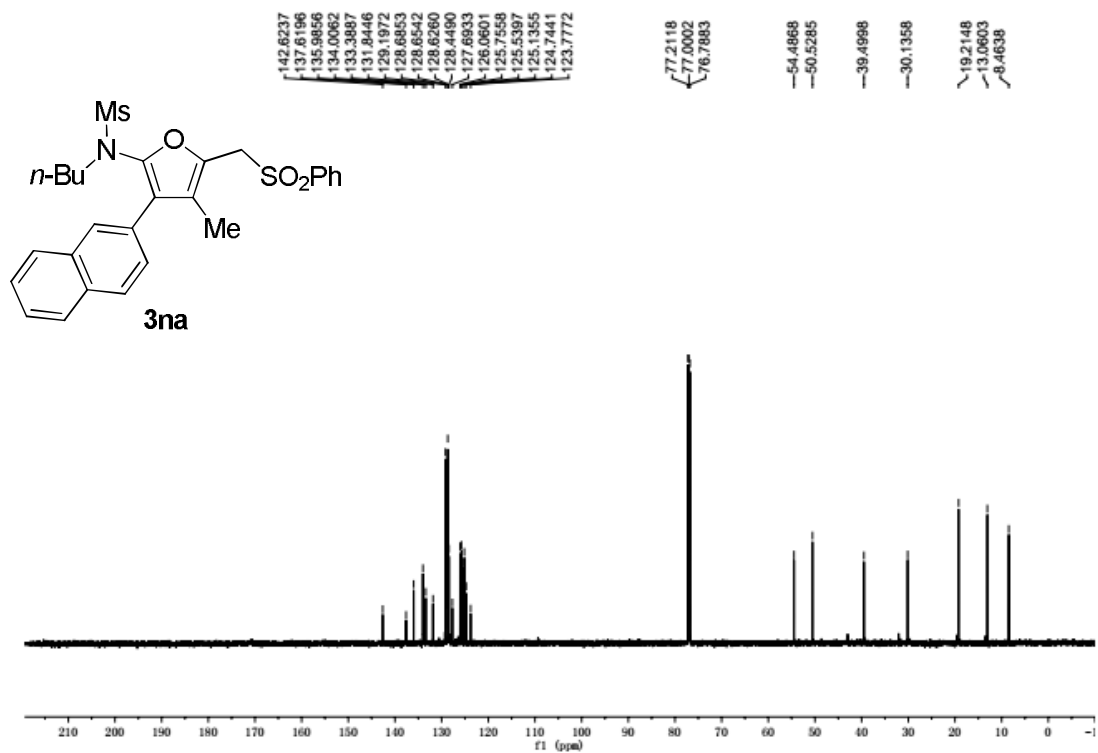


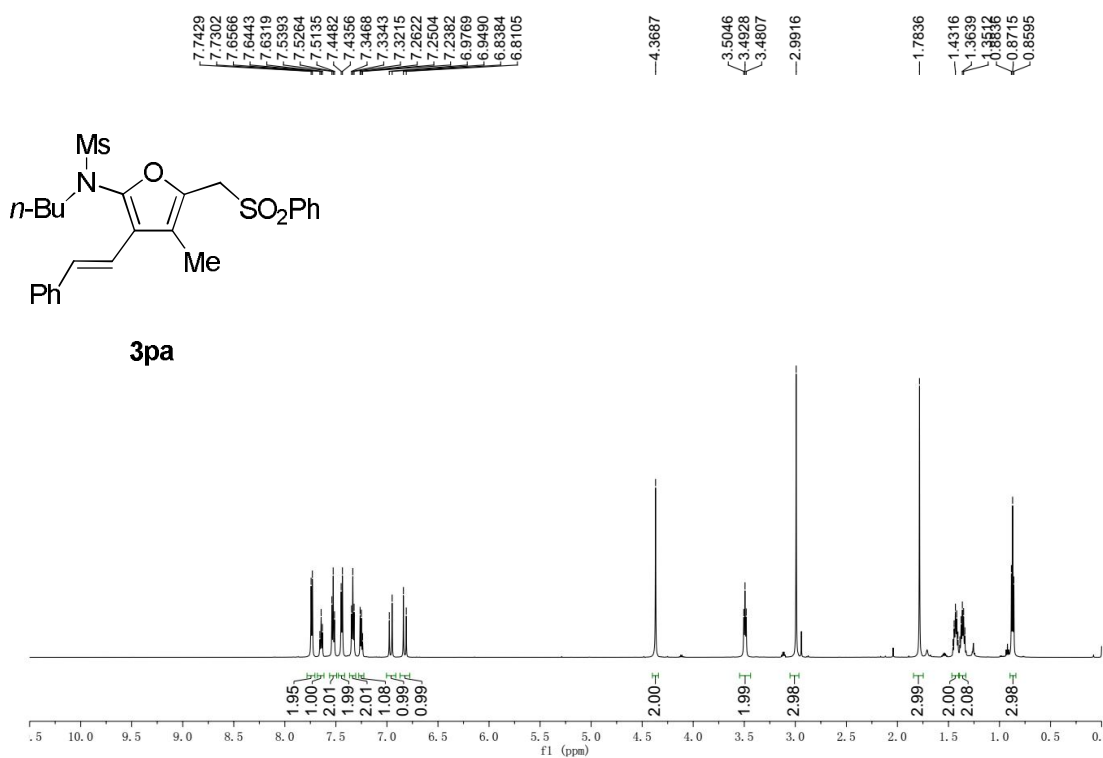
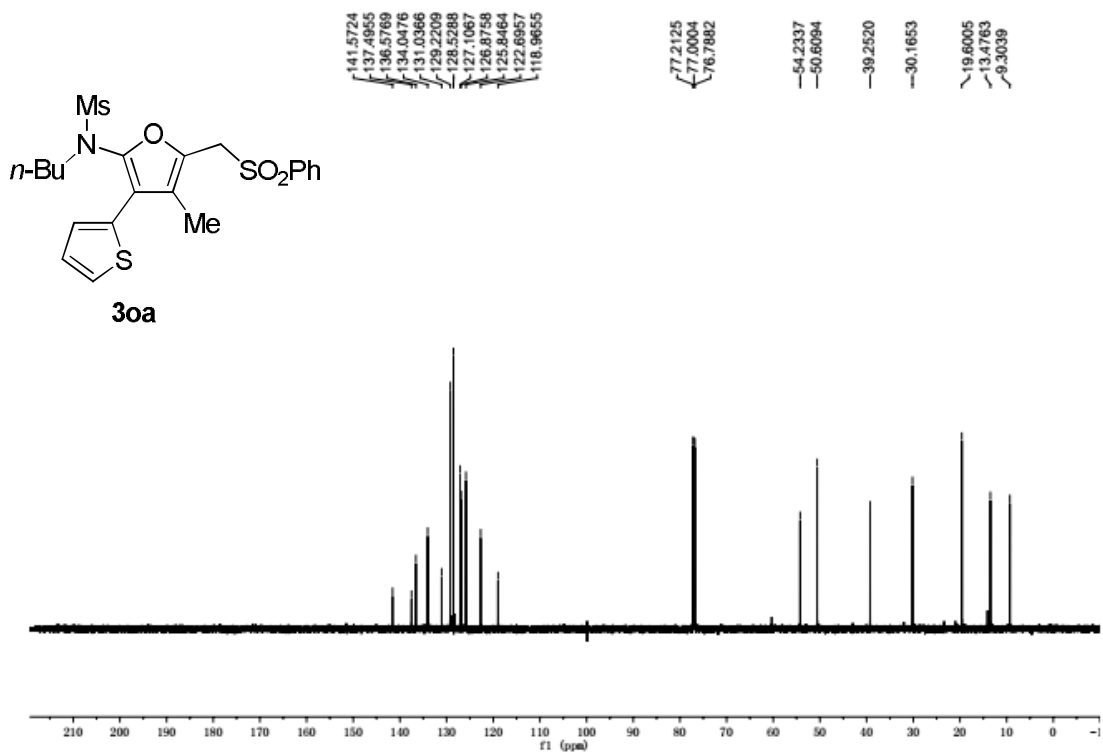


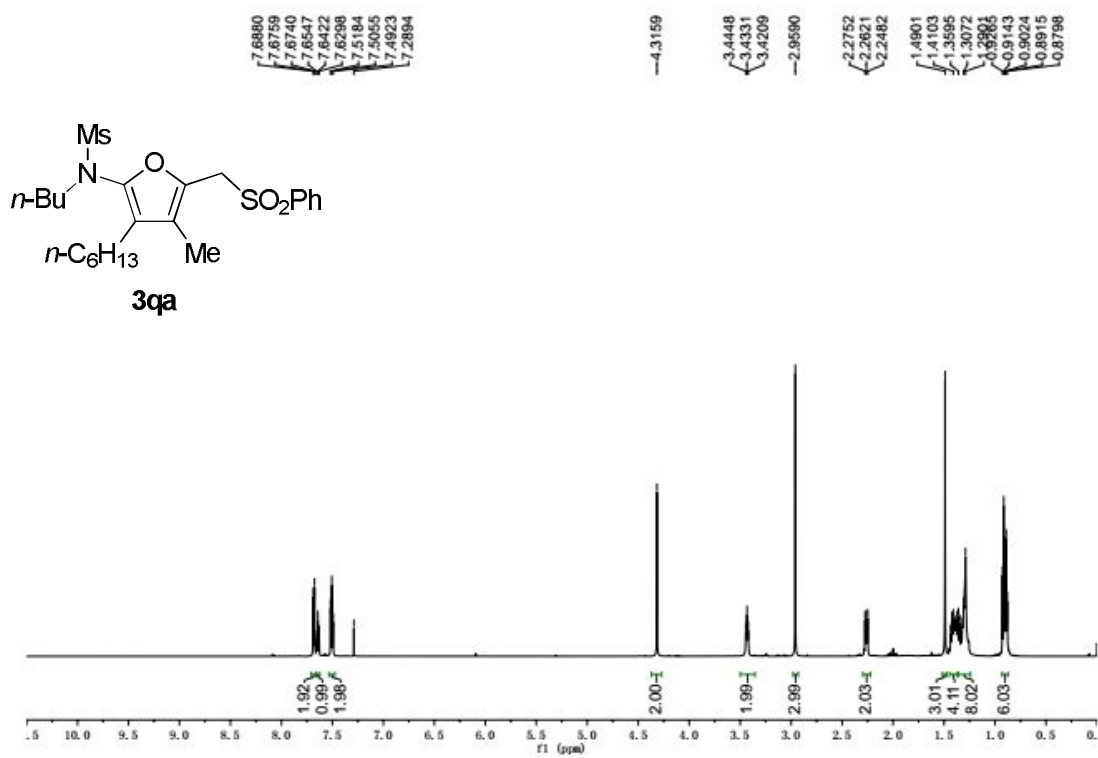
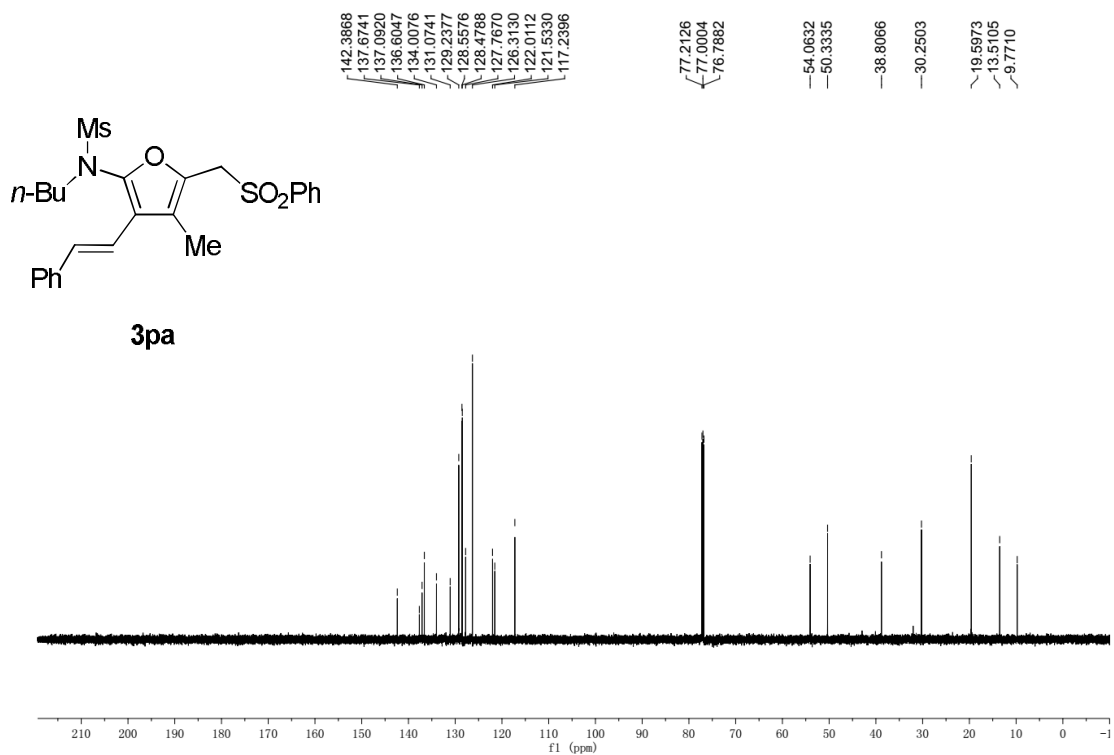


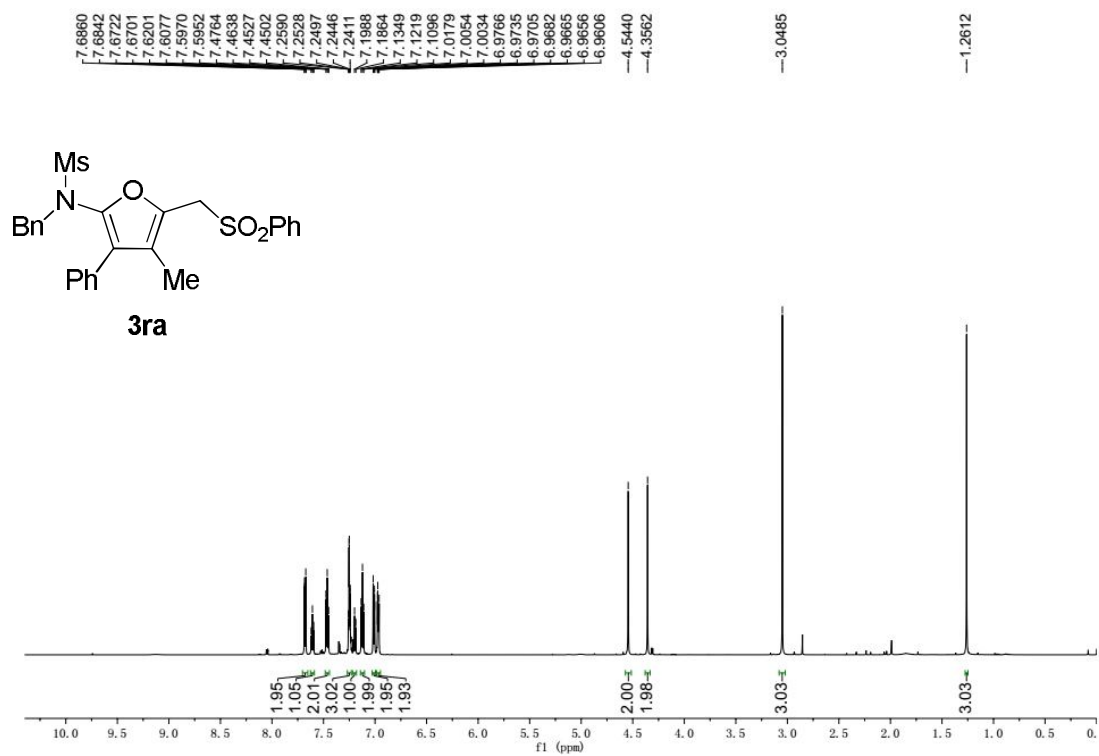
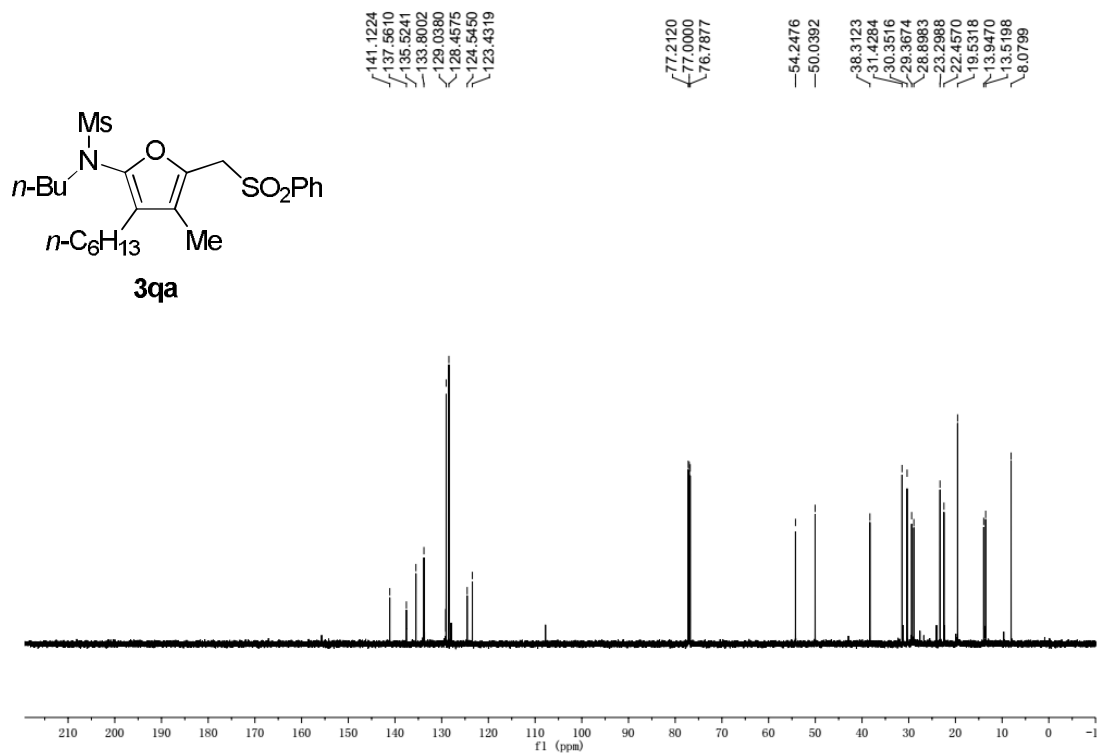


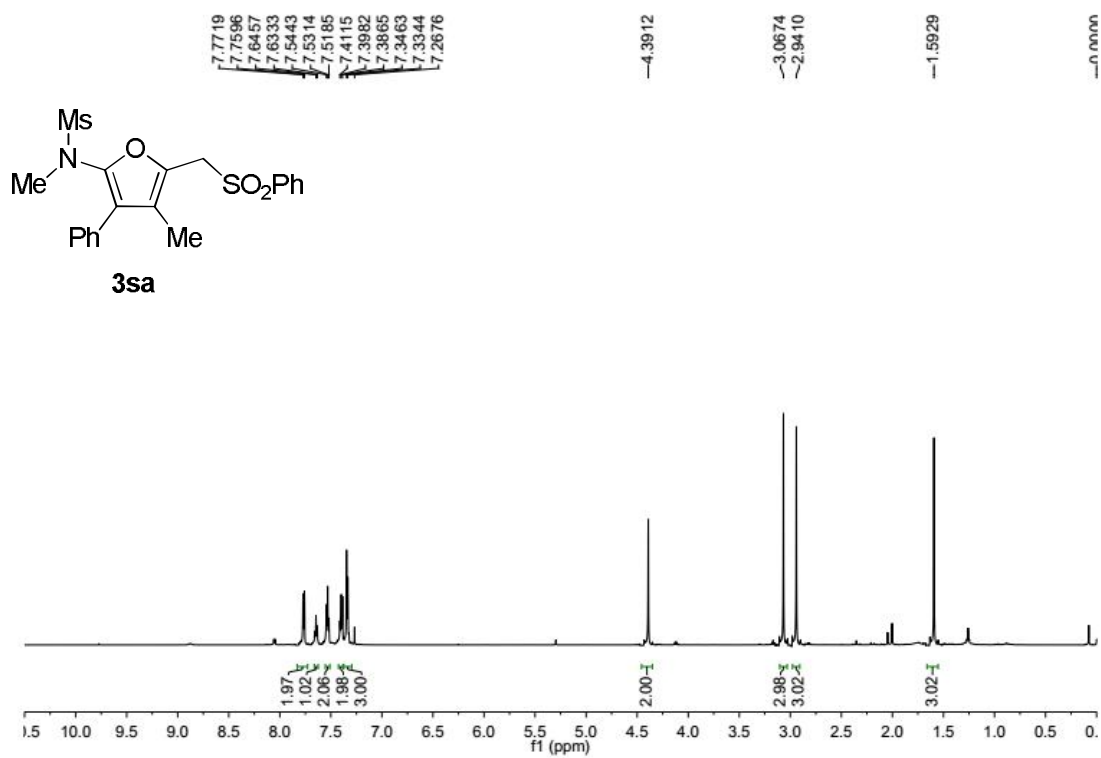
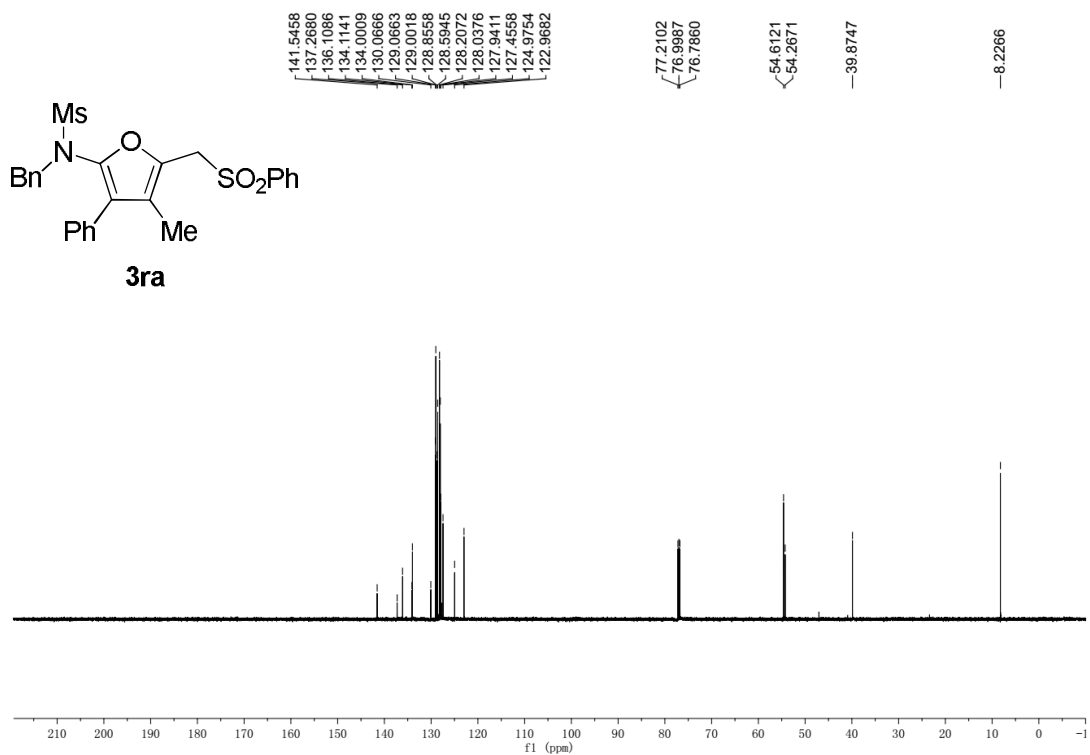


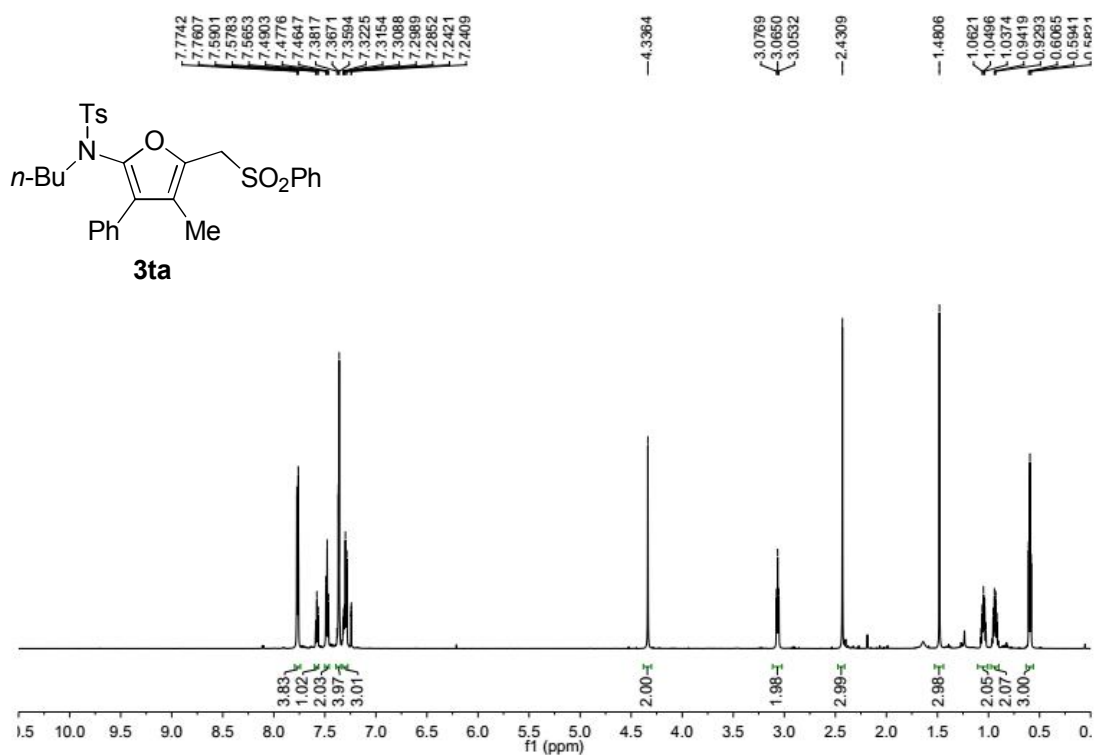
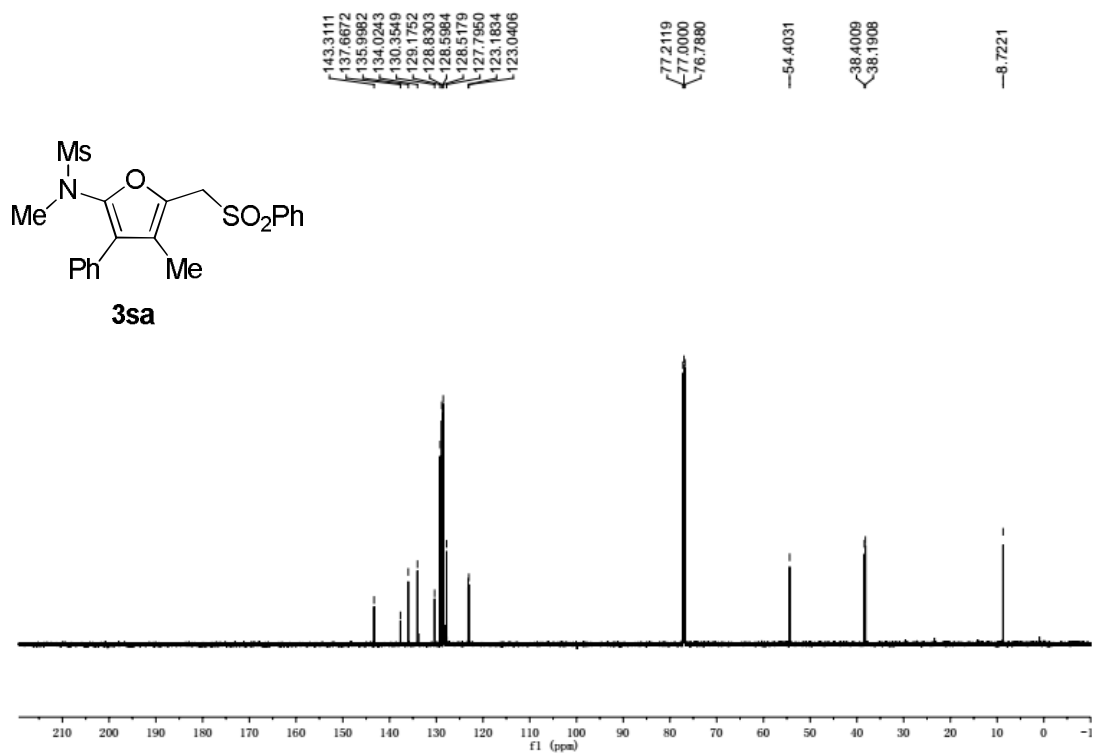


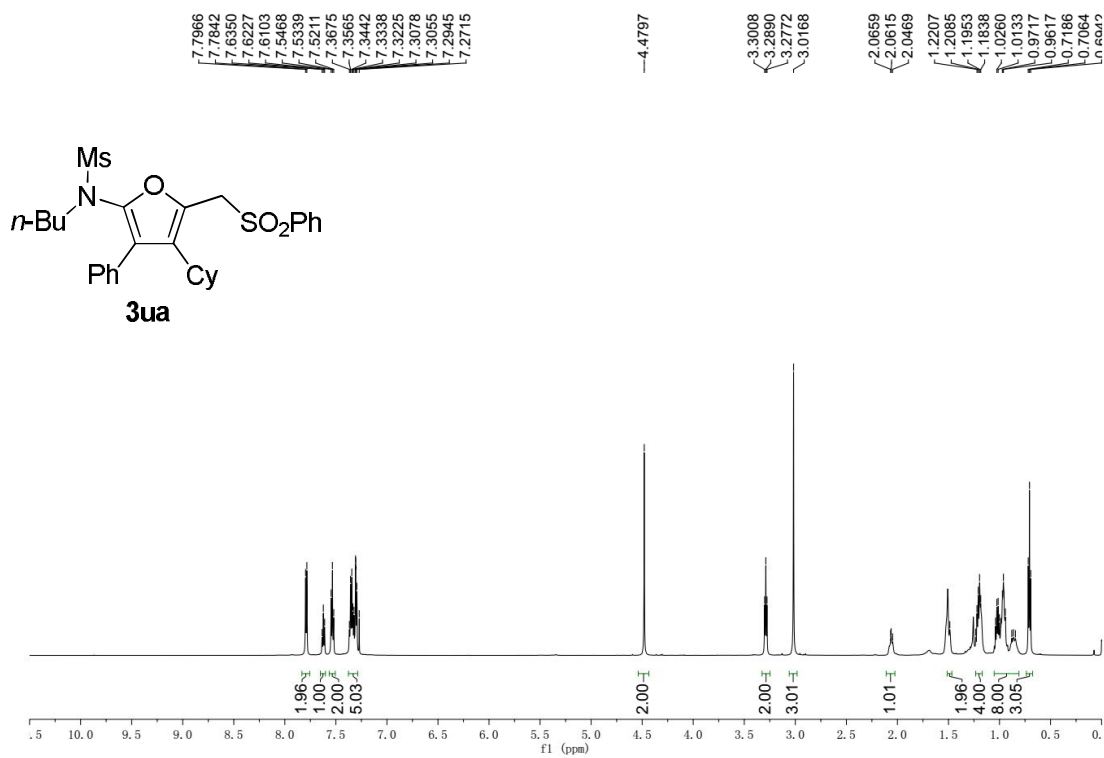
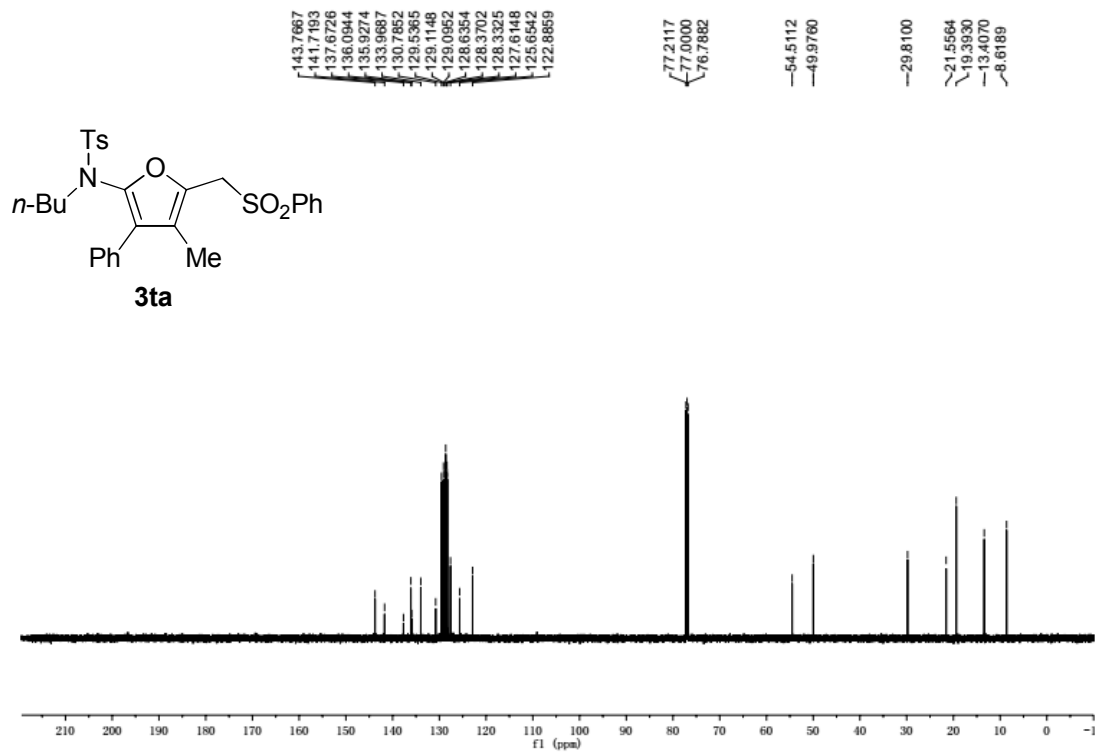


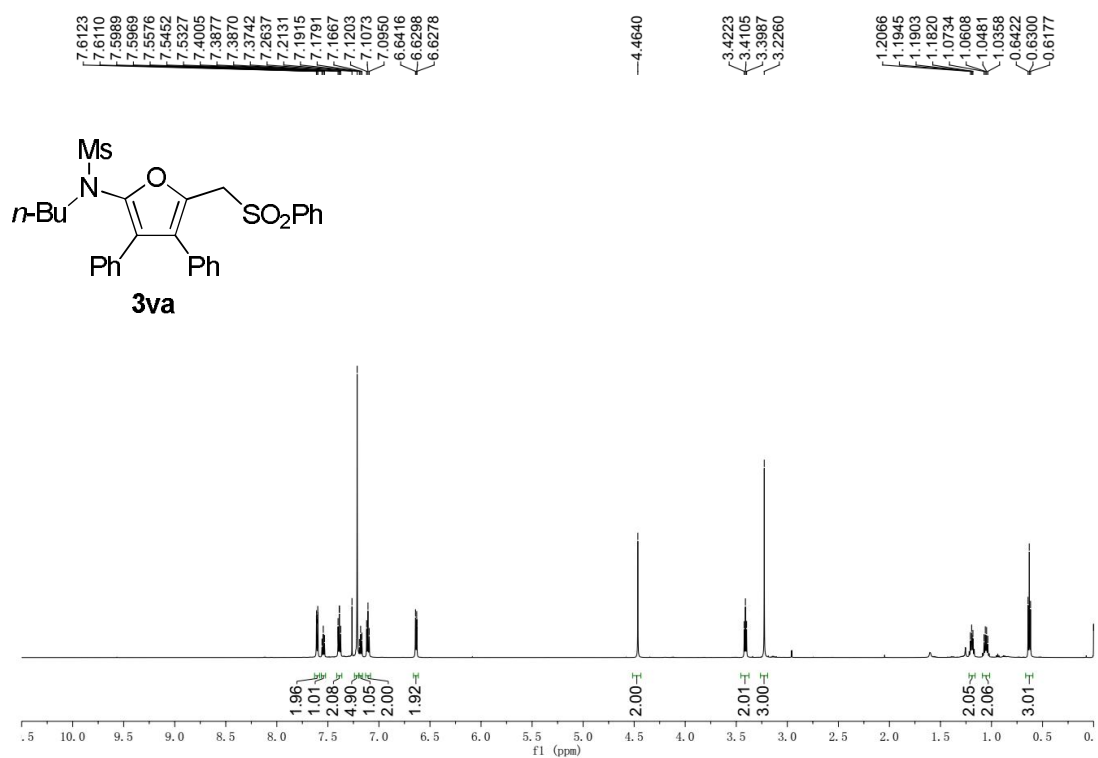
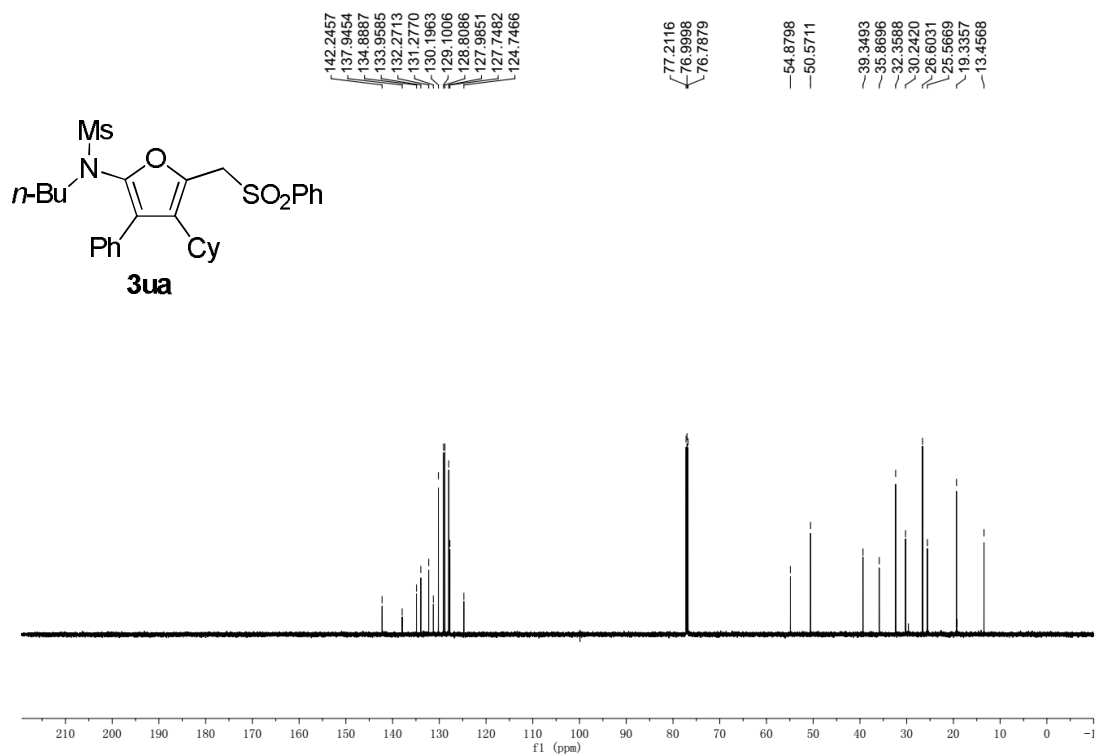


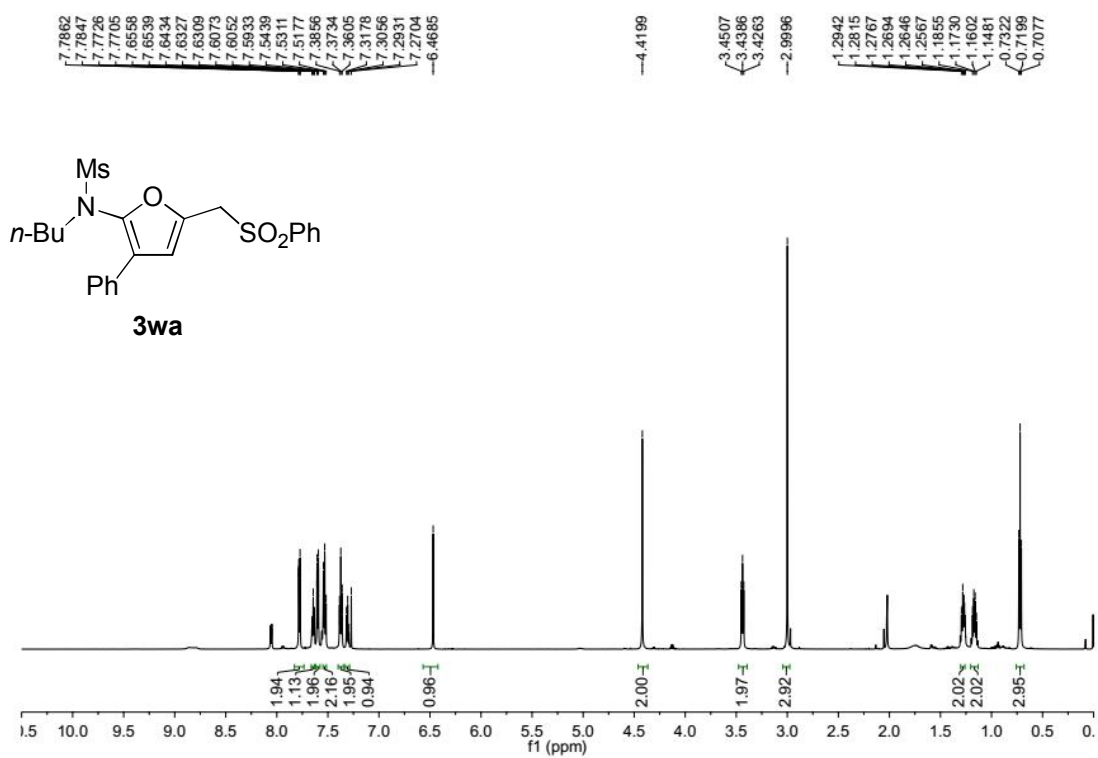
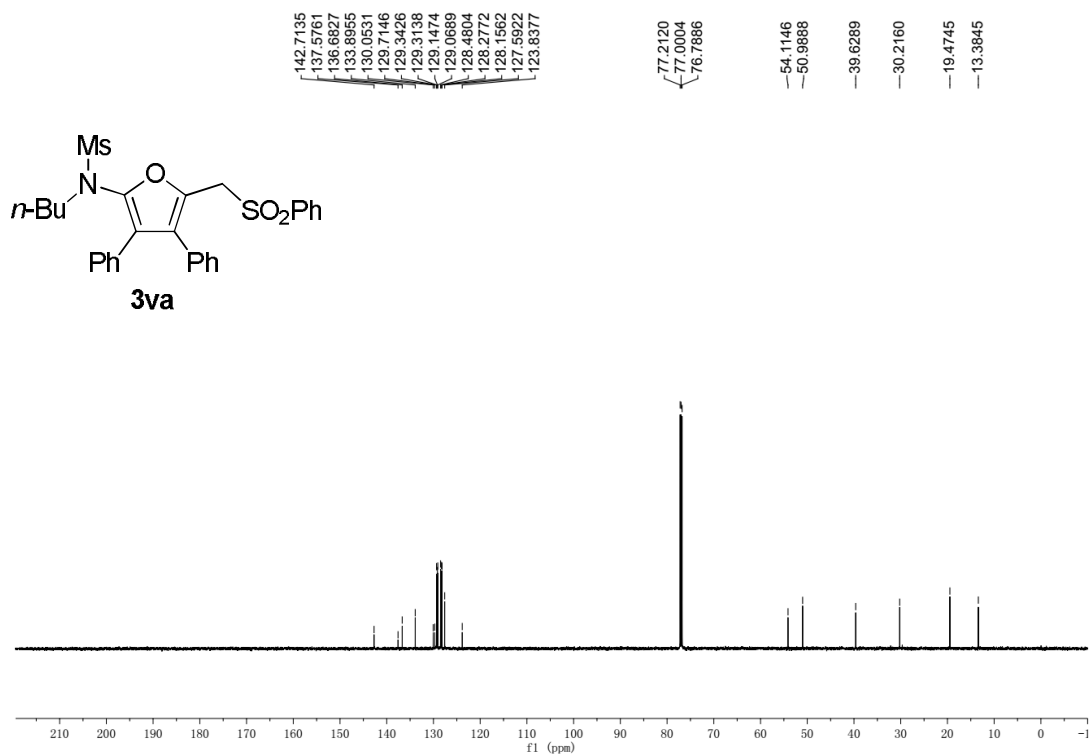


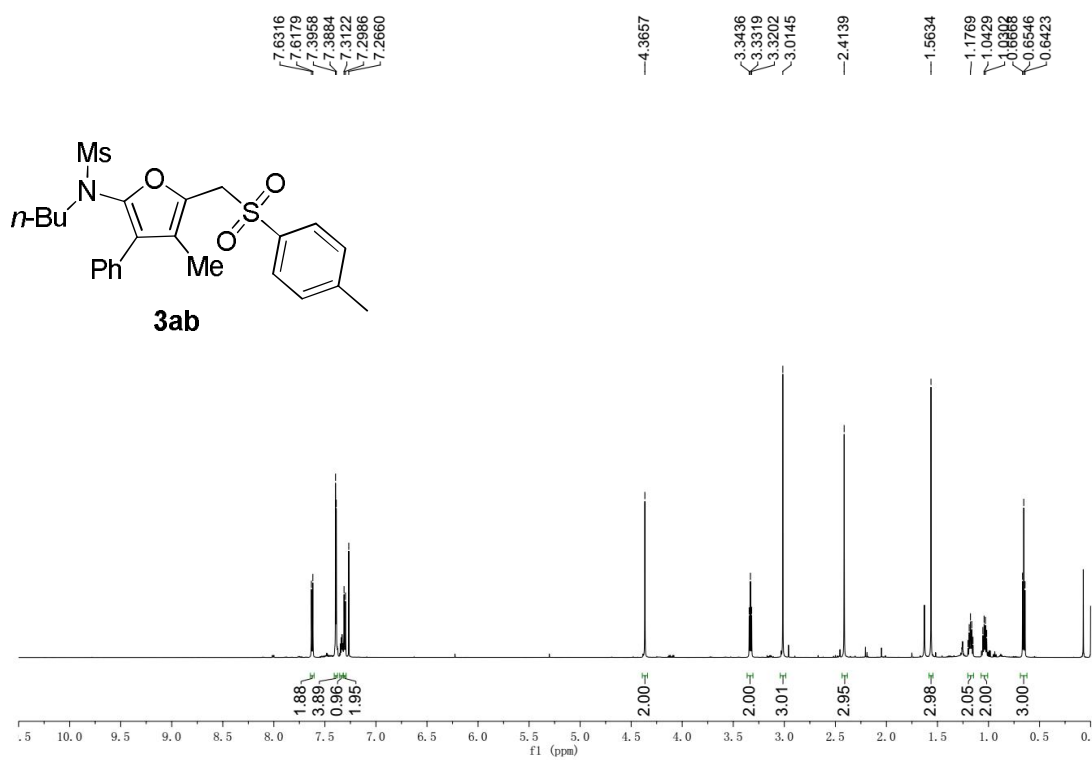
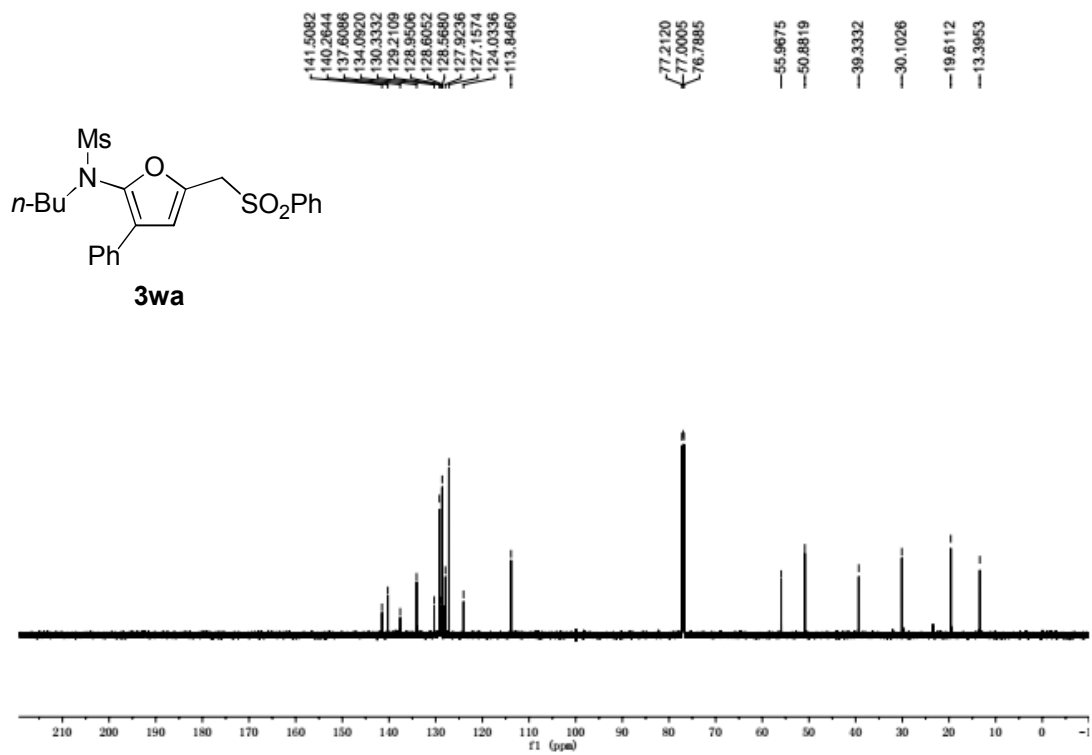


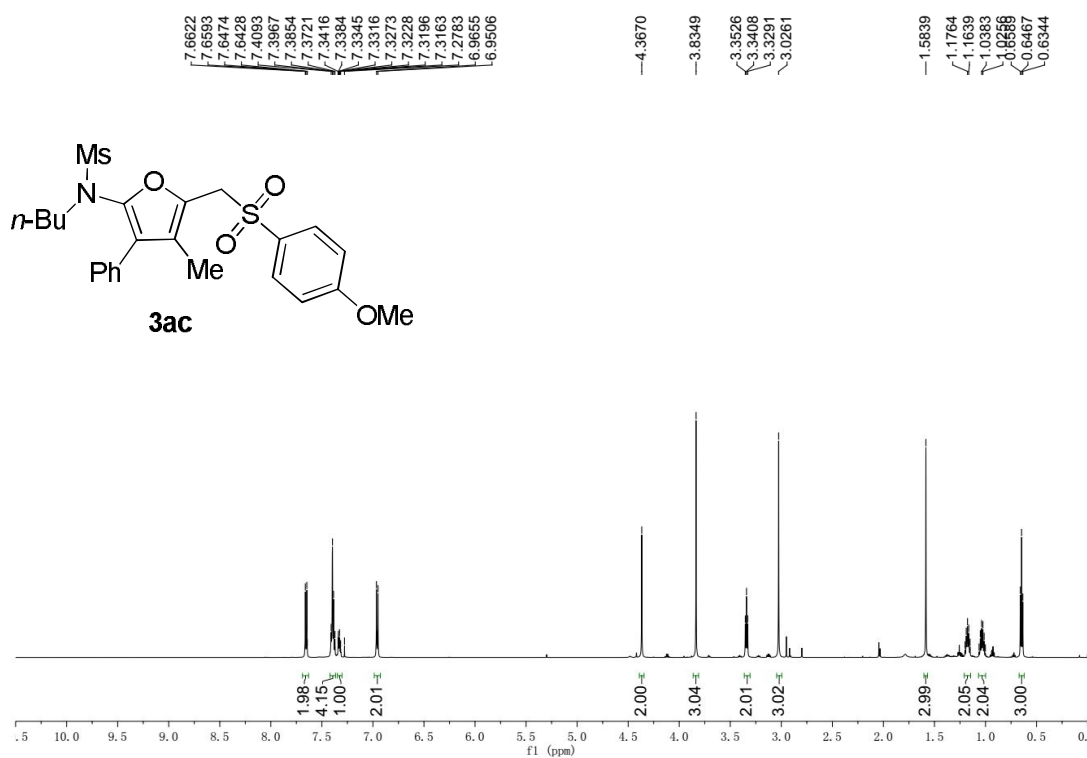
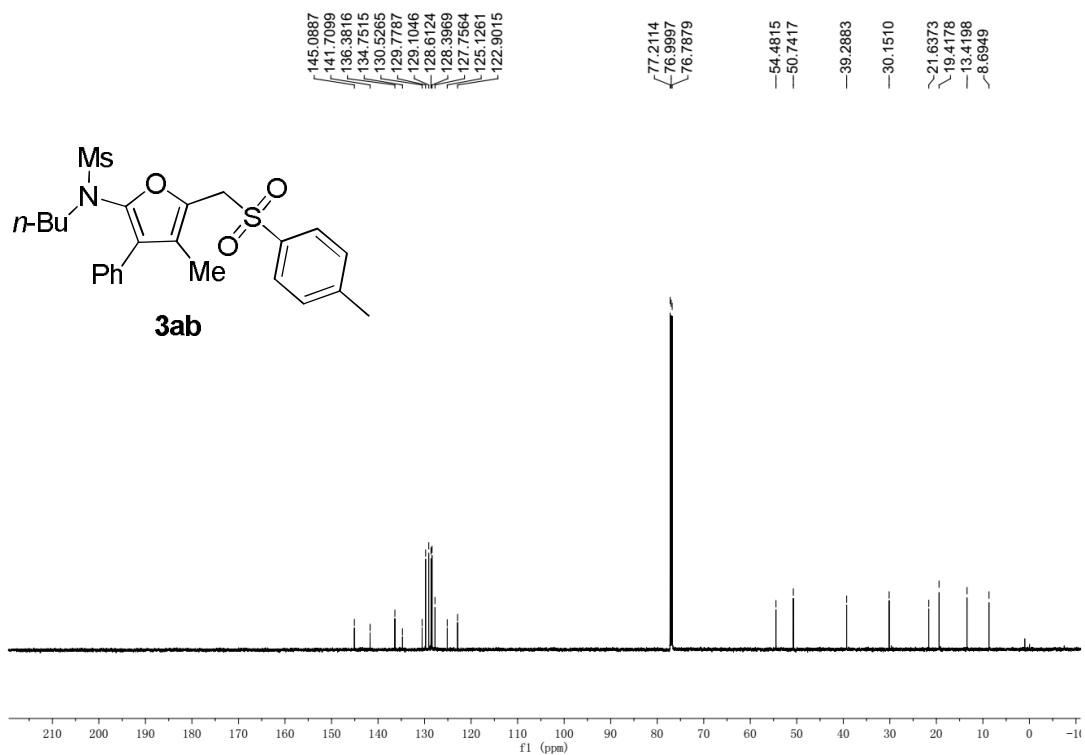


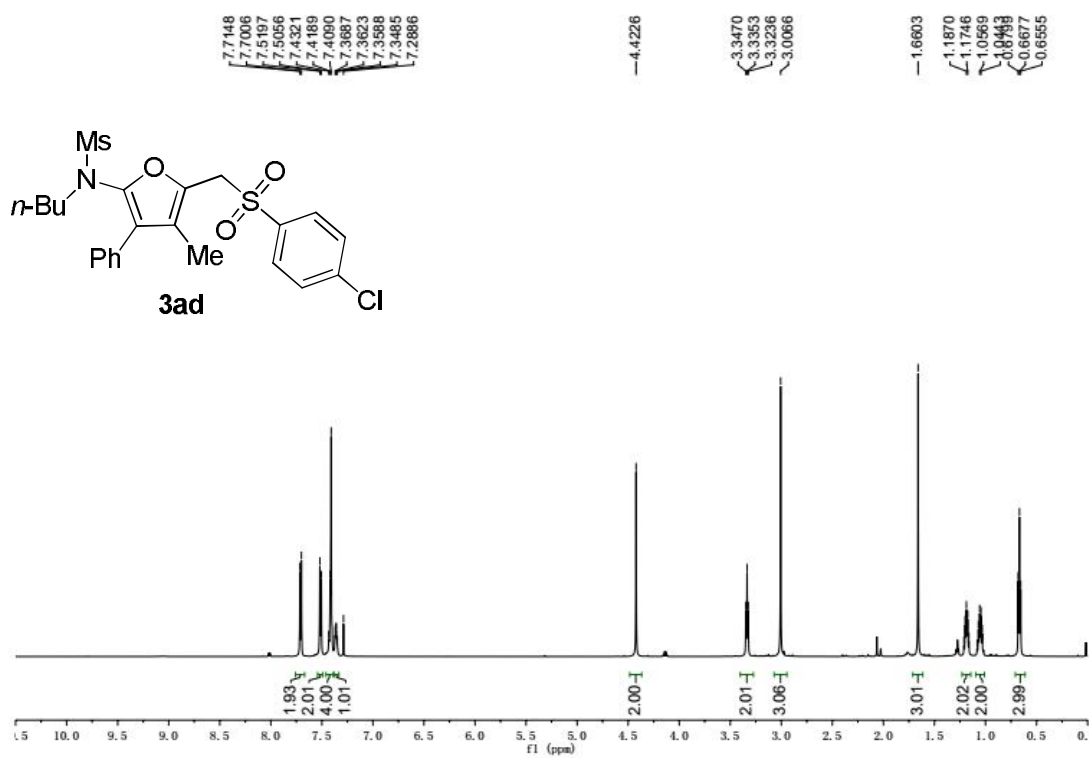
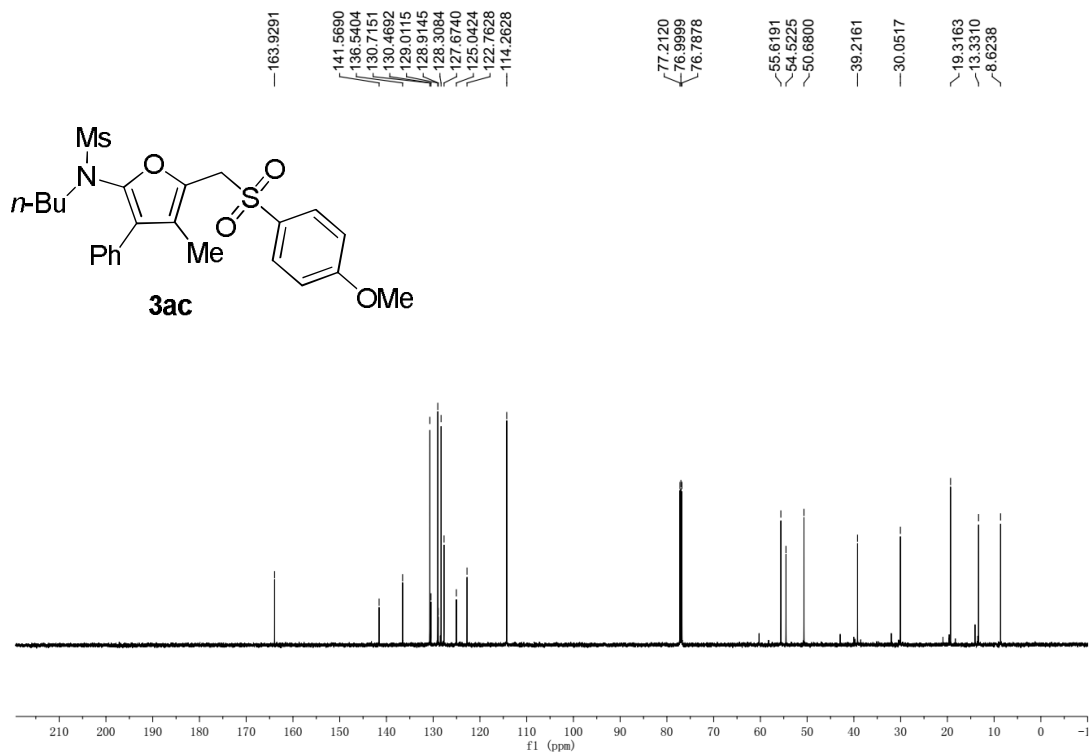


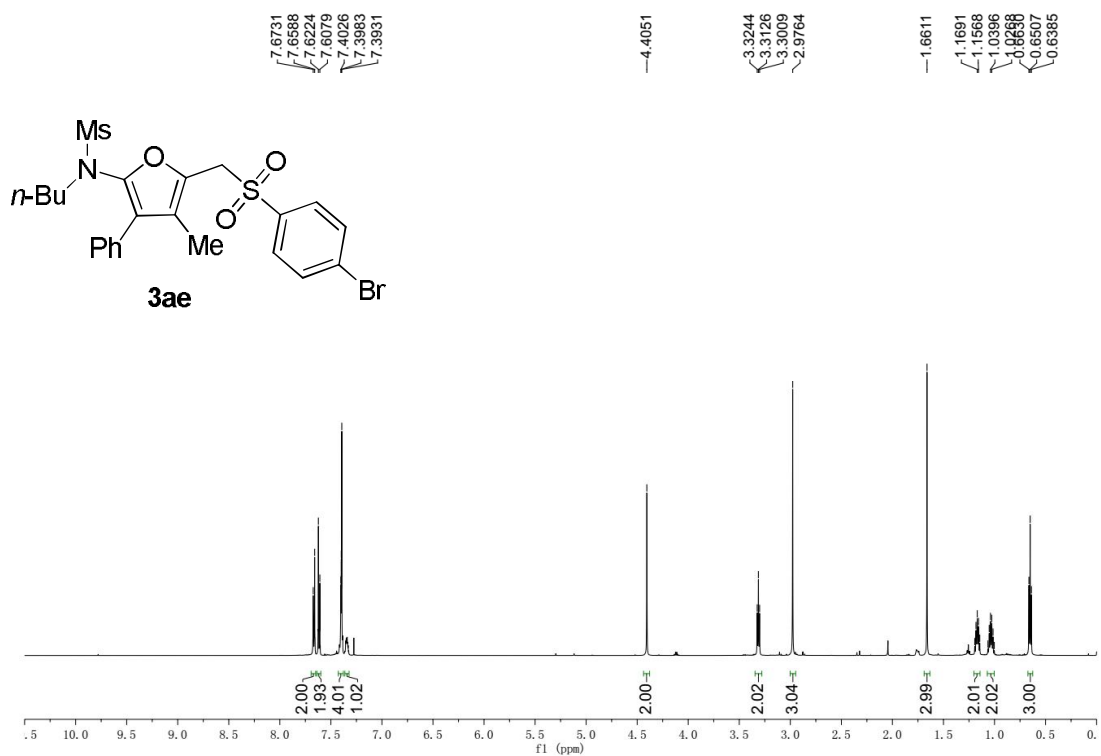
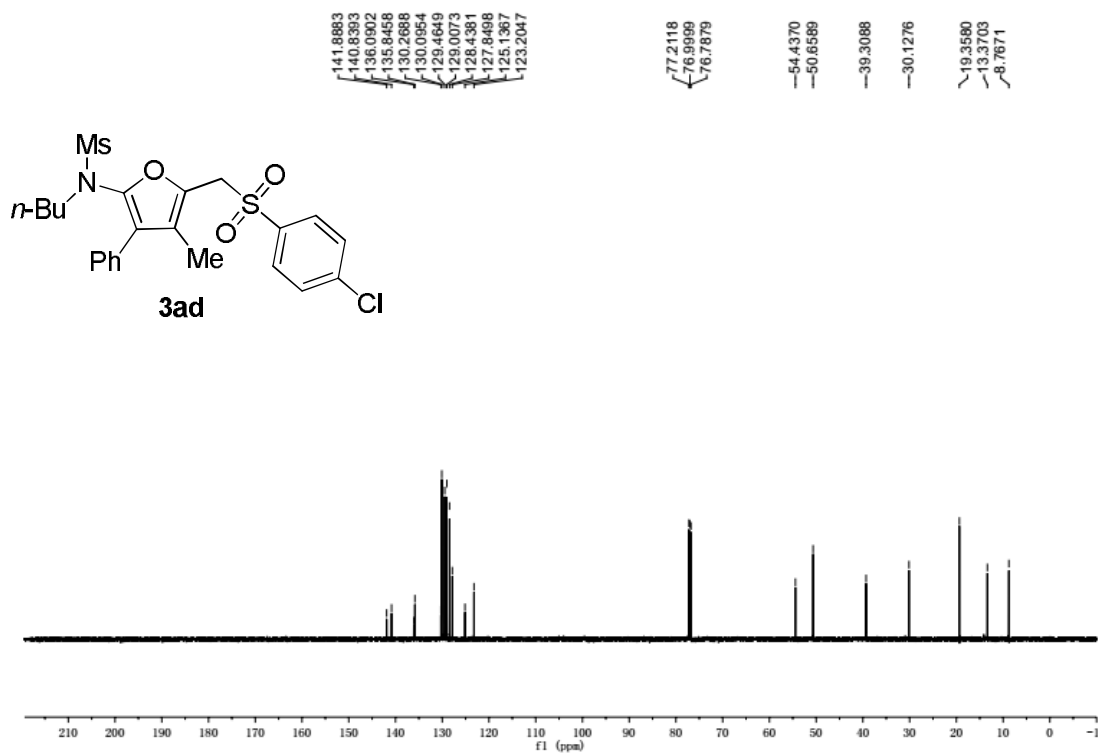


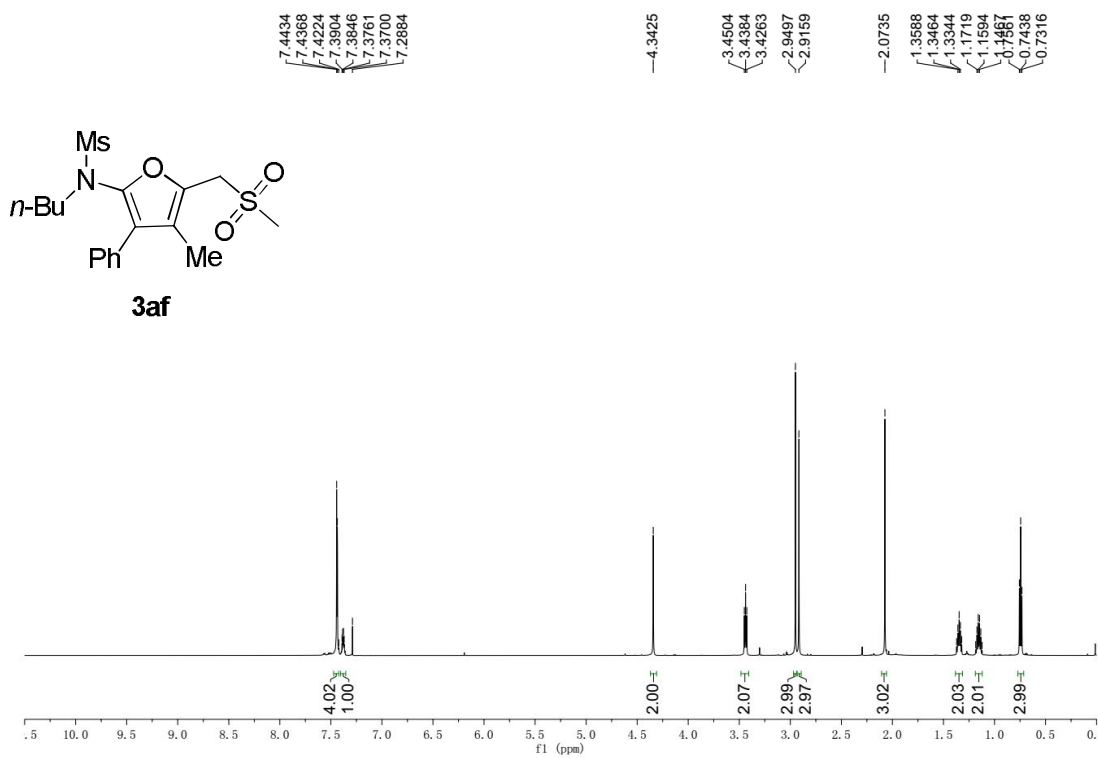
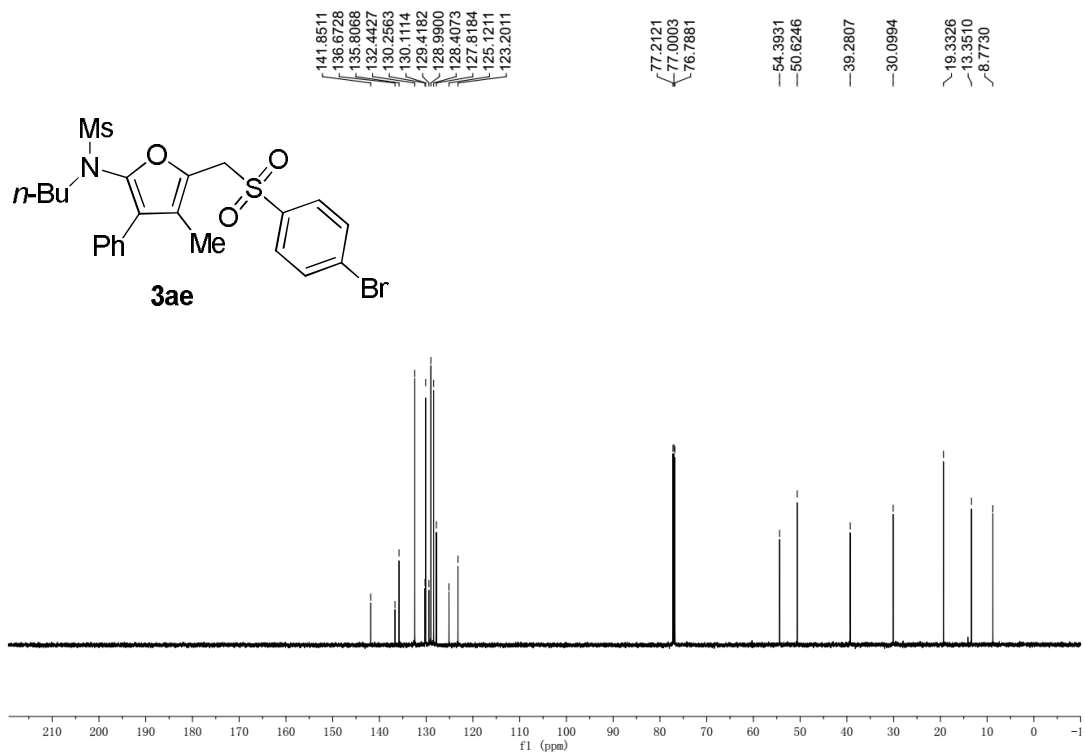


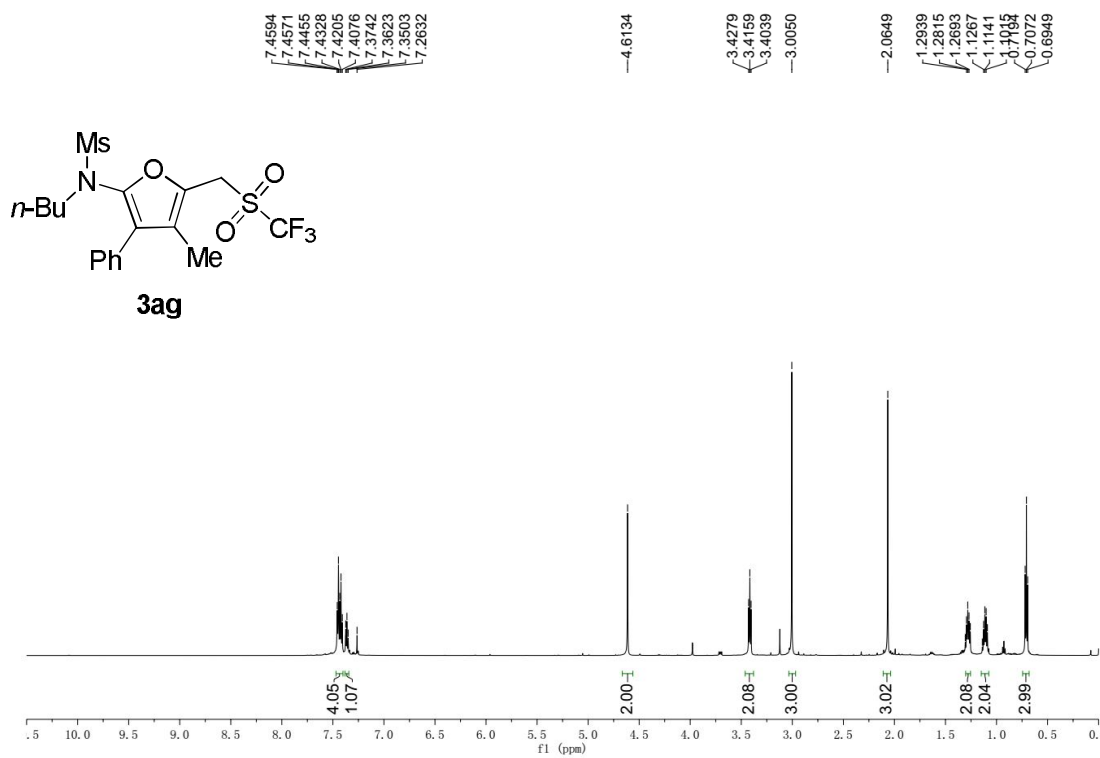
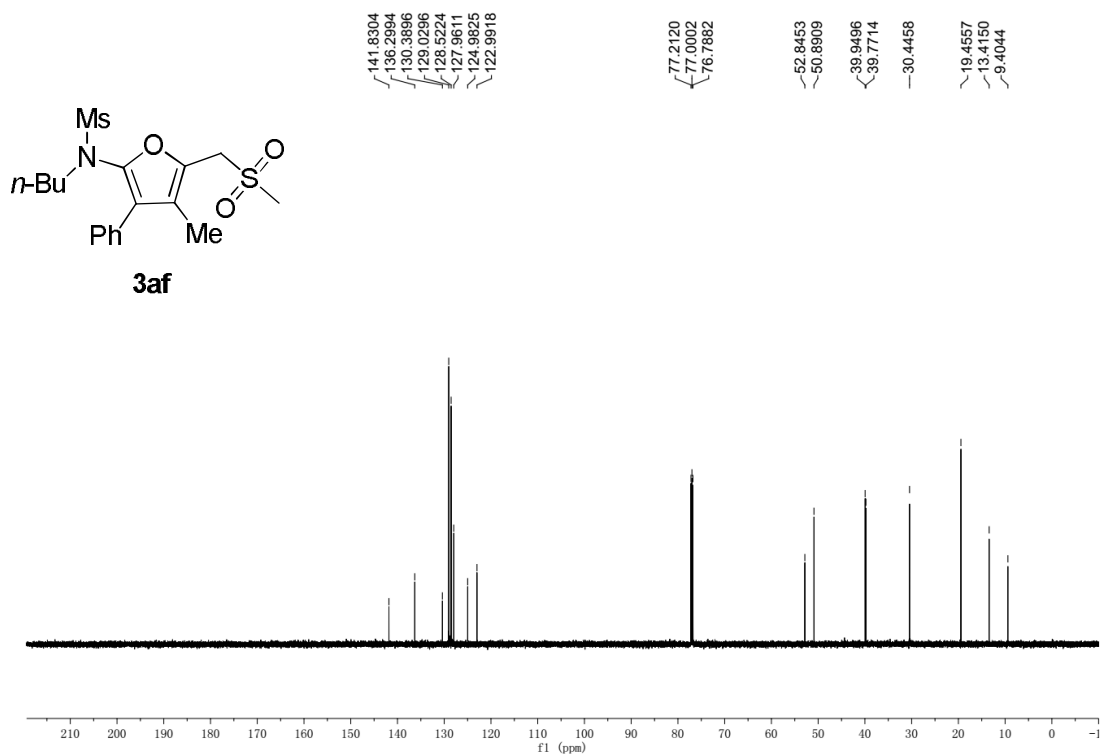


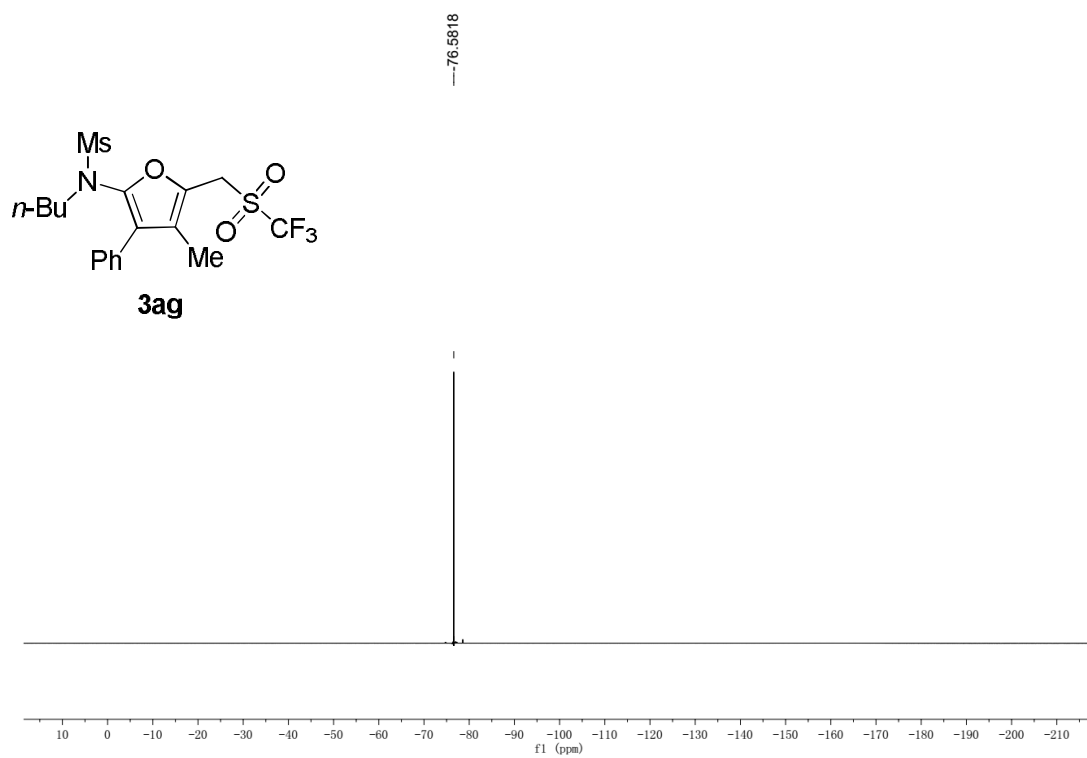
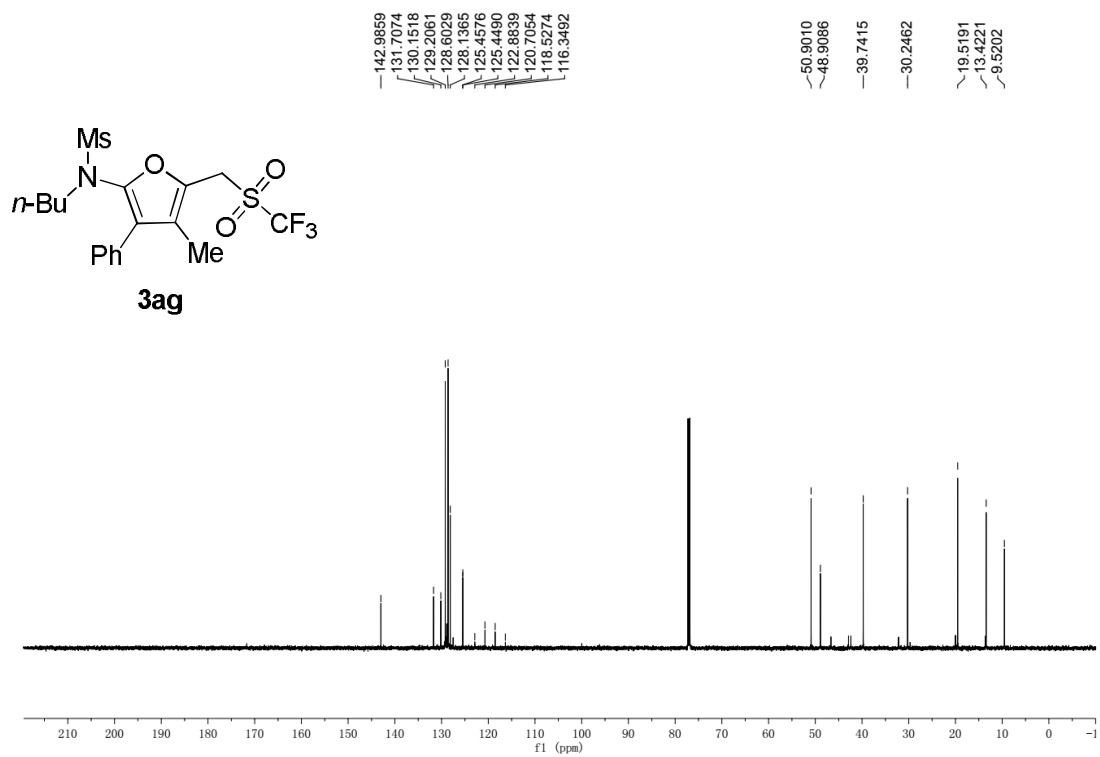


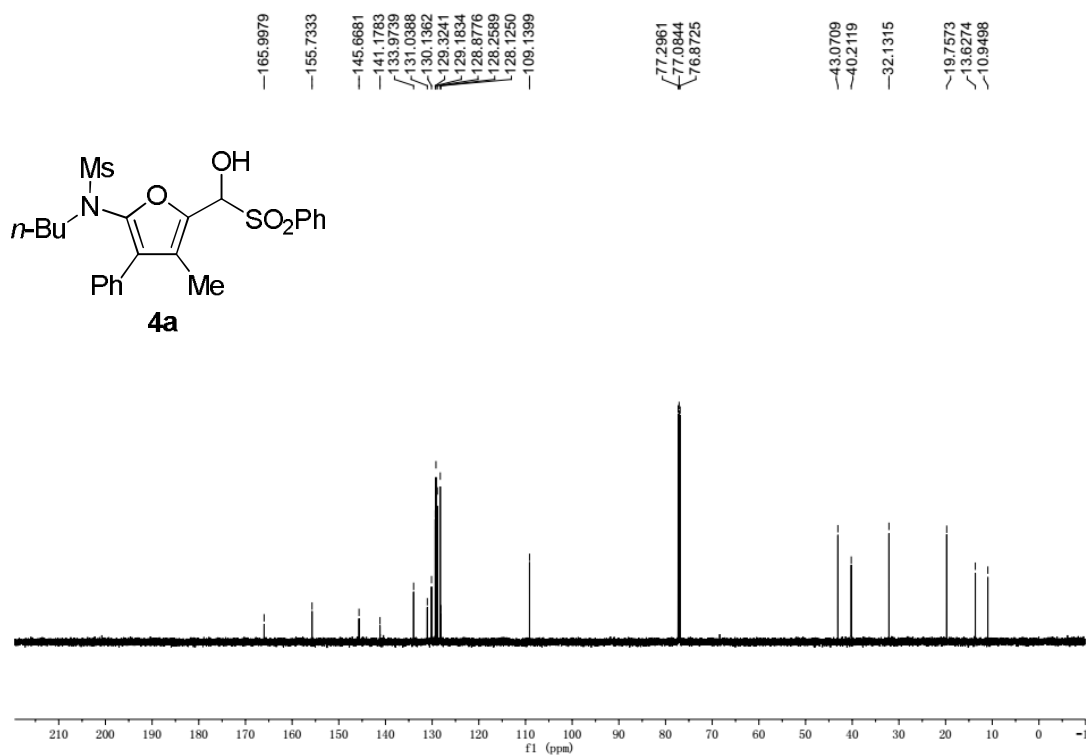
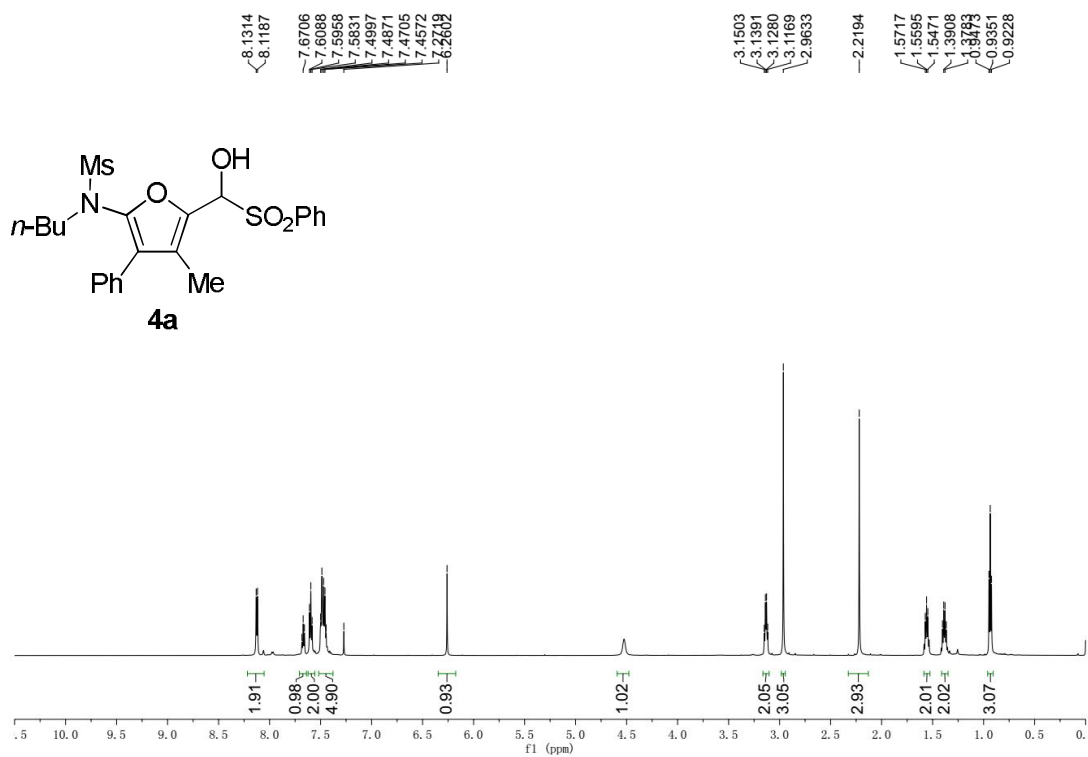












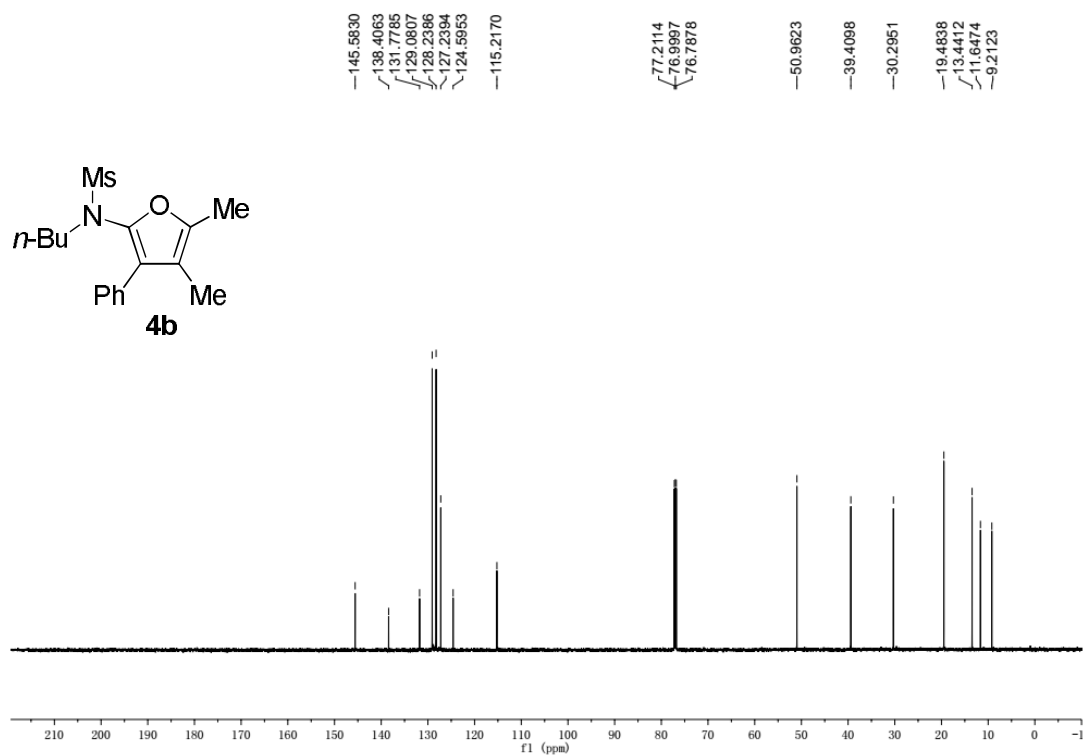
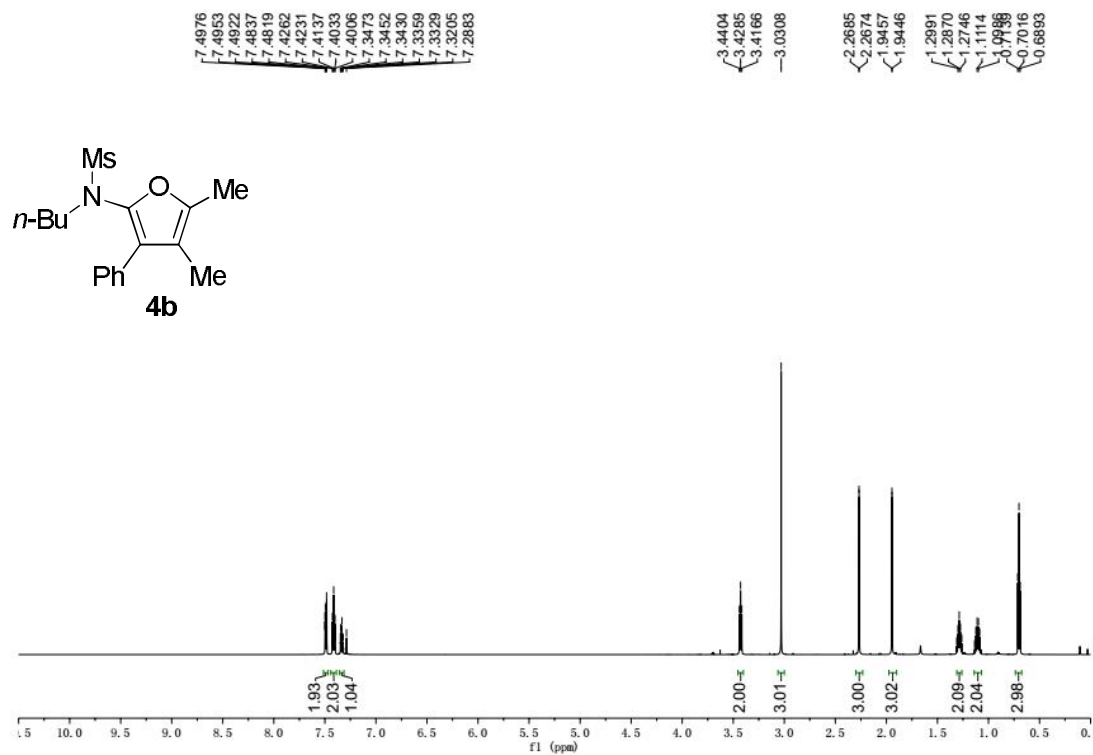
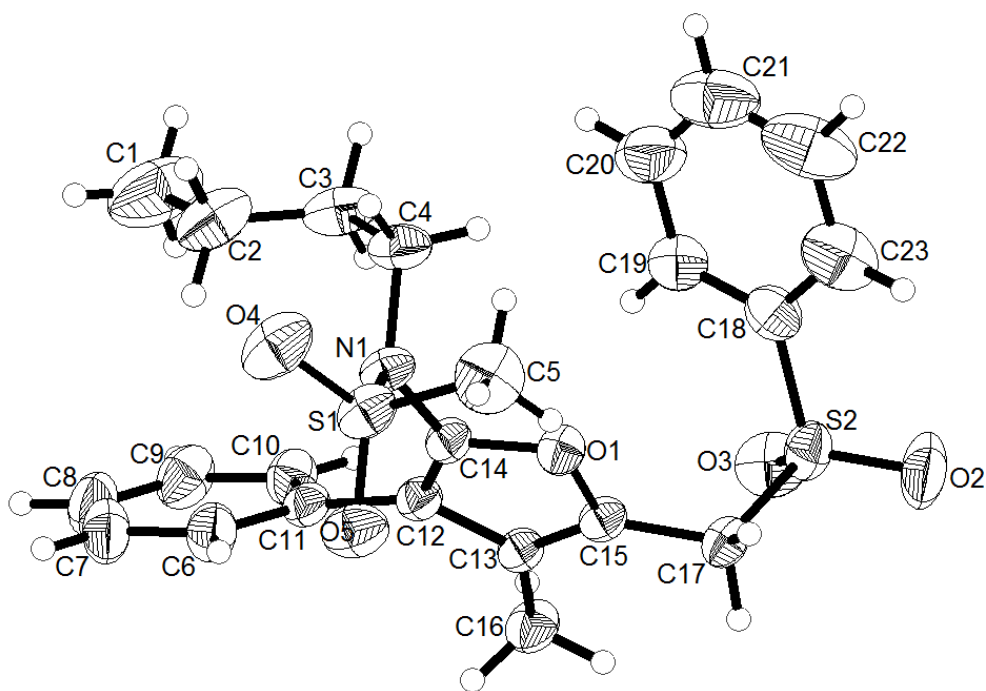
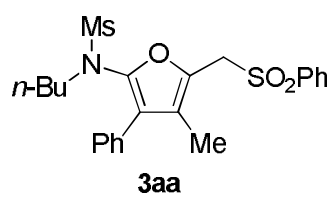


Figure S1. ORTEP drawing of 3aa showing the atom-labeling scheme and displacement ellipsoids drawn at the 50% probability level



Checkcif Report of 3aa

checkCIF/PLATON report

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

THIS REPORT IS FOR GUIDANCE ONLY. IF USED AS PART OF A REVIEW PROCEDURE FOR PUBLICATION, IT SHOULD NOT REPLACE THE EXPERTISE OF AN EXPERIENCED CRYSTALLOGRAPHIC REFEREE.

No syntax errors found.

[CIF dictionary](#)

[Interpreting this report](#)

Datablock: 1

Bond precision:	C-C = 0.0035 A	Wavelength=0.71073	
Cell:	a=11.6931 (6)	b=12.6204 (6)	c=16.4696 (8)
	alpha=90	beta=104.241 (3)	gamma=90
Temperature:	296 K		
	Calculated	Reported	
Volume	2355.8 (2)	2355.8 (2)	
Space group	P 21/c	P2 (1) /c	
Hall group	-P 2ybc	?	
Moiety formula	C23 H27 N O5 S2	?	
Sum formula	C23 H27 N O5 S2	C23 H27 N O5 S2	
Mr	461.58	461.58	
Dx, g cm-3	1.301	1.301	
Z	4	4	
Mu (mm-1)	0.259	0.259	
F000	976.0	976.0	
F000'	977.42		
h, k, lmax	15, 16, 21	15, 16, 21	
Nref	5517	5493	
Tmin, Tmax	0.940, 0.974	0.940, 0.974	
Tmin'	0.902		
Correction method=	# Reported T Limits: Tmin=0.940 Tmax=0.974		
AbsCorr =	EMPIRICAL		
Data completeness=	0.996	Theta (max)= 27.680	
R(reflections)=	0.0482 (3813)	wR2(reflections)= 0.1209 (5493)	
S =	1.020	Npar= 283	

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	
PLAT220 ALERT 2 C	Non-Solvent Resd 1 C Ueq(max)/Ueq(min) Range	3.3 Ratio
PLAT790 ALERT 4 C	Centre of Gravity not Within Unit Cell: Resd. #	1 Note
	C23 H27 N O5 S2	

	Alert level G	
PLAT005 ALERT 5 G	No Embedded Refinement Details found in the CIF	Please Do !
PLAT066 ALERT 1 G	Predicted and Reported Tmin&Tmax Range Identical	? Check
PLAT093 ALERT 1 G	No s.u.'s on H-positions, Refinement Reported as	mixed Check
PLAT398 ALERT 2 G	Deviating C-O-C Angle from 120 Deg for O1	105.5 Degree
PLAT899 ALERT 4 G	SHELXL97 is Deprecated and Succeeded by SHELXL	2014 Note

- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
0 **ALERT level B** = A potentially serious problem, consider carefully
2 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
5 **ALERT level G** = General information/check it is not something unexpected
- 2 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
2 ALERT type 2 Indicator that the structure model may be wrong or deficient
0 ALERT type 3 Indicator that the structure quality may be low
2 ALERT type 4 Improvement, methodology, query or suggestion
1 ALERT type 5 Informative message, check
-

It is advisable to attempt to resolve as many as possible of the alerts in all categories. Often the minor alerts point to easily fixed oversights, errors and omissions in your CIF or refinement strategy, so attention to these fine details can be worthwhile. In order to resolve some of the more serious problems it may be necessary to carry out additional measurements or structure refinements. However, the purpose of your study may justify the reported deviations and the more serious of these should normally be commented upon in the discussion or experimental section of a paper or in the "special_details" fields of the CIF. checkCIF was carefully designed to identify outliers and unusual parameters, but every test has its limitations and alerts that are not important in a particular case may appear. Conversely, the absence of alerts does not guarantee there are no aspects of the results needing attention. It is up to the individual to critically assess their own results and, if necessary, seek expert advice.

Publication of your CIF in IUCr journals

A basic structural check has been run on your CIF. These basic checks will be run on all CIFs submitted for publication in IUCr journals (*Acta Crystallographica*, *Journal of Applied Crystallography*, *Journal of Synchrotron Radiation*); however, if you intend to submit to *Acta Crystallographica Section C* or *E* or *IUCrData*, you should make sure that **full publication checks** are run on the final version of your CIF prior to submission.

Publication of your CIF in other journals

Please refer to the *Notes for Authors* of the relevant journal for any special instructions relating to CIF submission.

PLATON version of 27/03/2017; check.def file version of 24/03/2017

Datablock 1 - ellipsoid plot

