

SUPPORTING INFORMATION

for

[4+2] Cycloaddition of vinylphosphine oxides to α -oxy-*o*-xylylene as a route to phosphorylated naphthyl and biaryl scaffolds

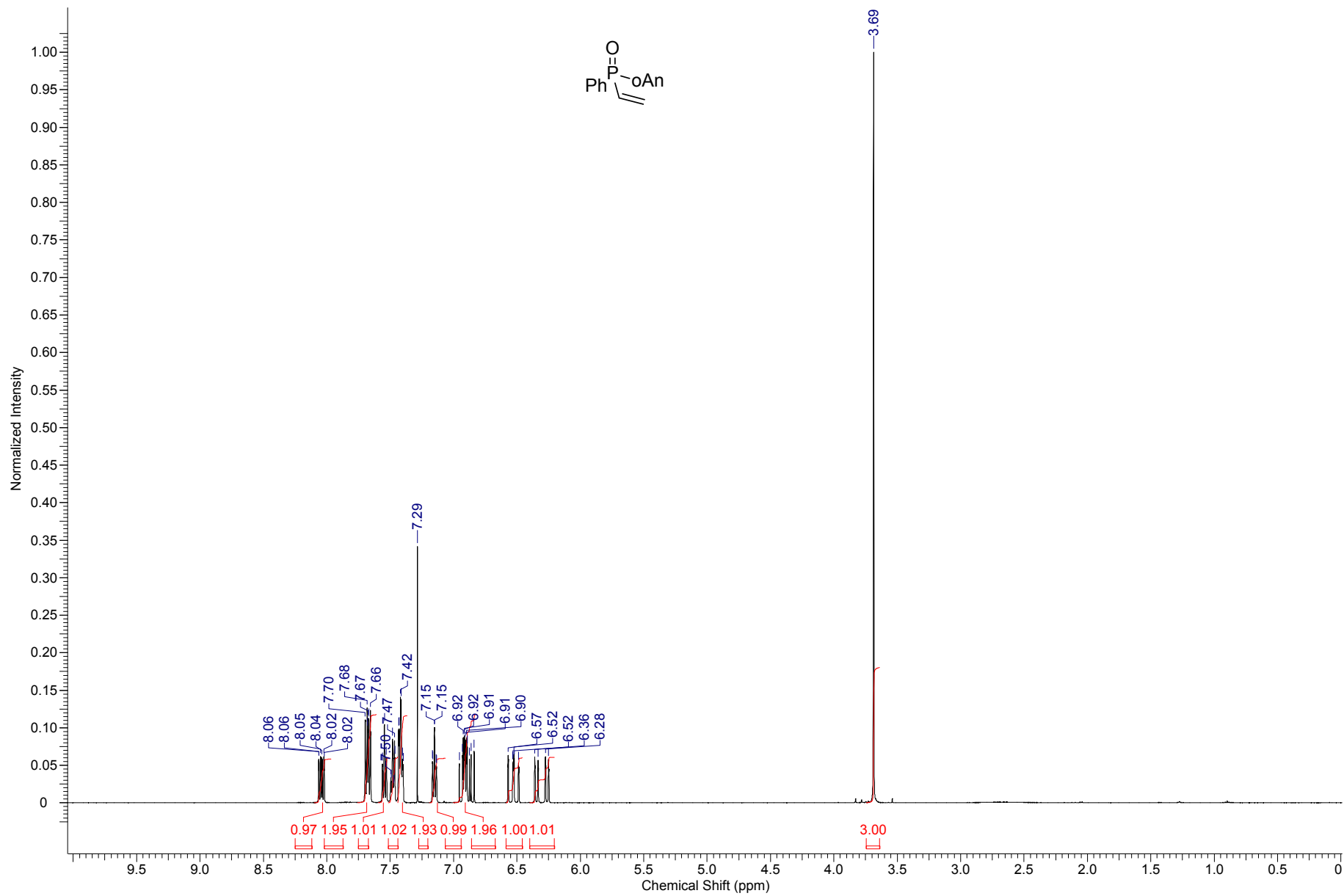
Sławomir Frynas, Elżbieta Łastawiecka, Anna E. Kozioł, Anna Flis, K. Michał Pietrusiewicz*

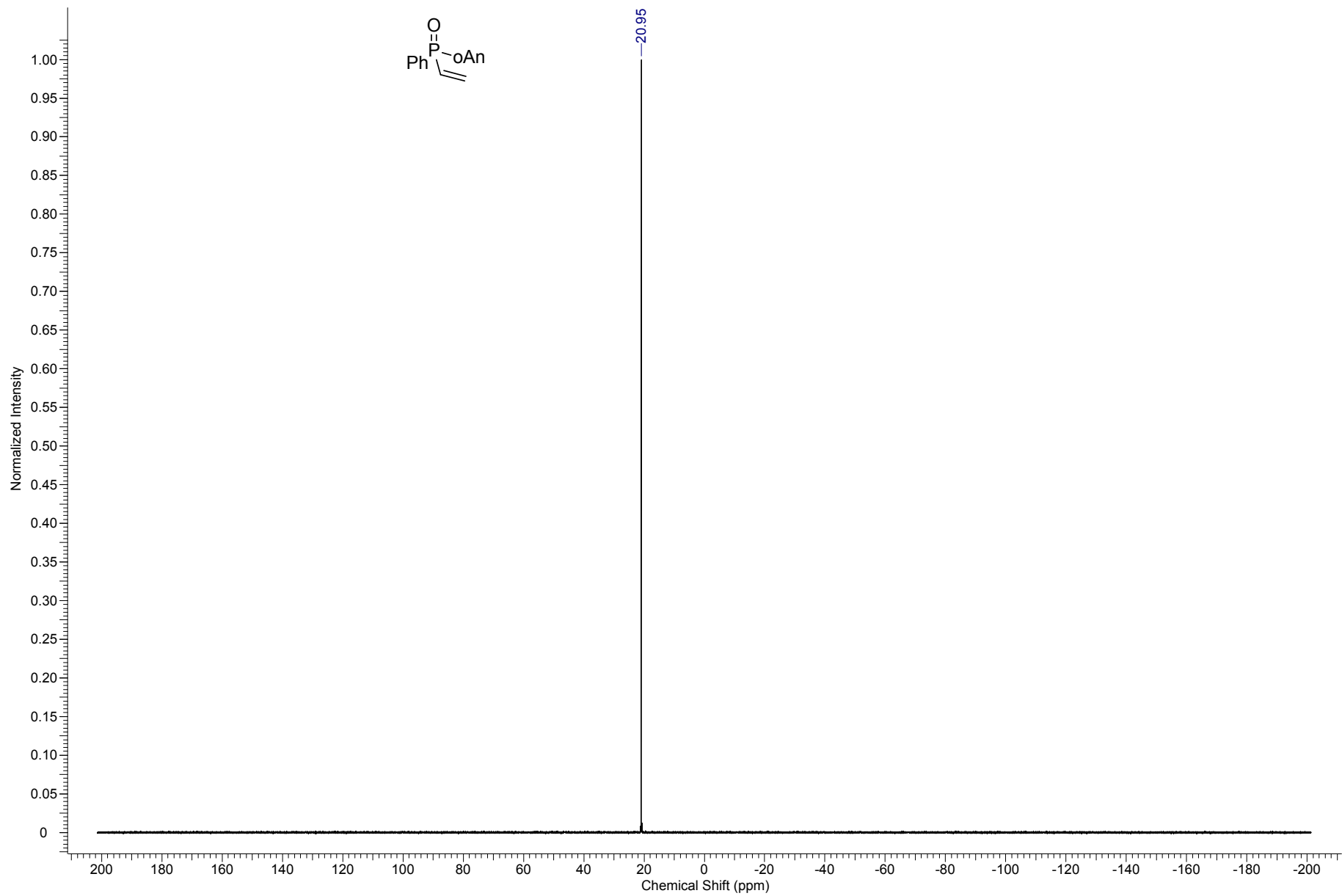
Department of Organic Chemistry, Faculty of Chemistry, Maria Curie-Skłodowska University, 33 Gliniana st., 20-614 Lublin, Poland

kazimierz.pietrusiewicz@poczta.umcs.lublin.pl

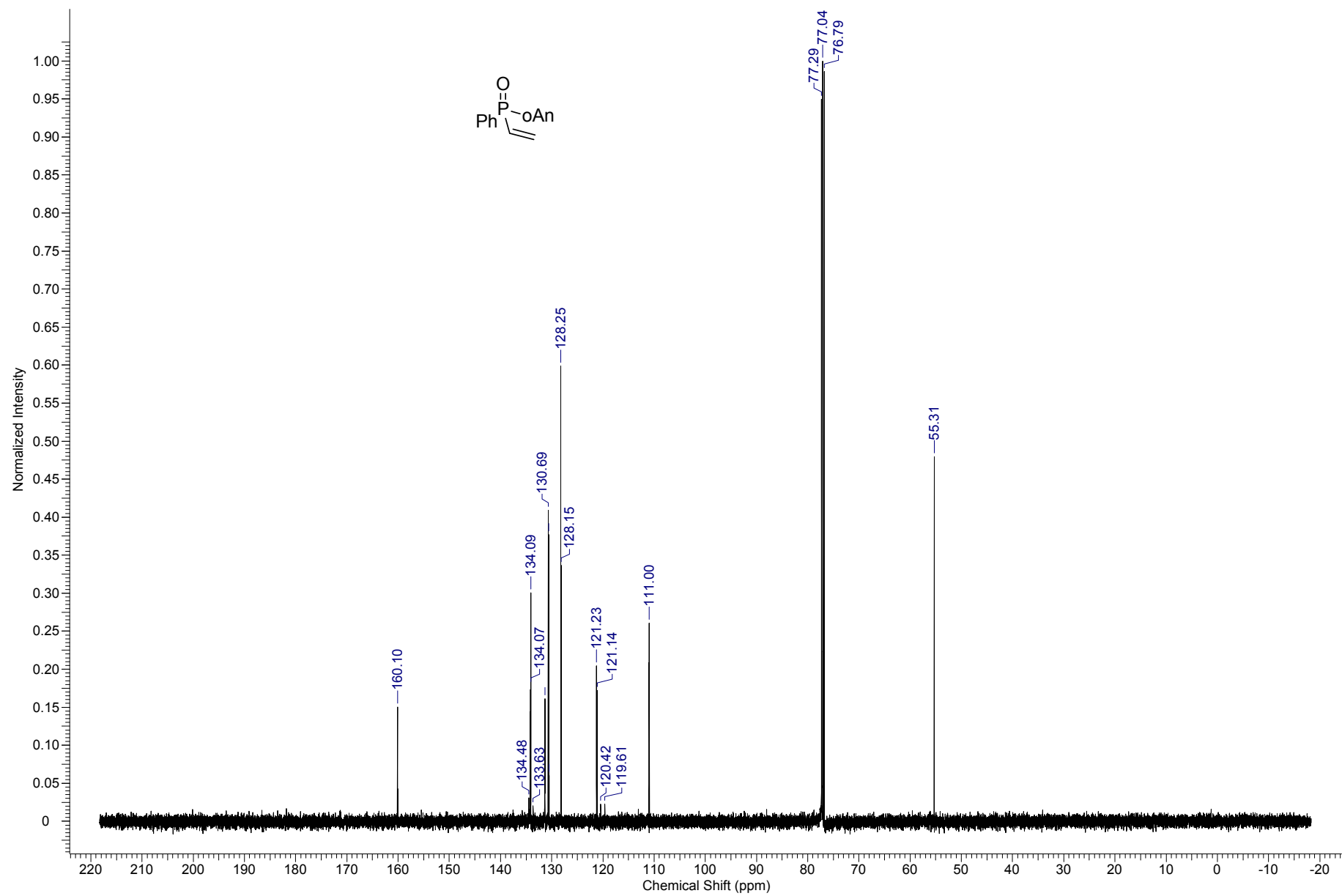
Table of Content

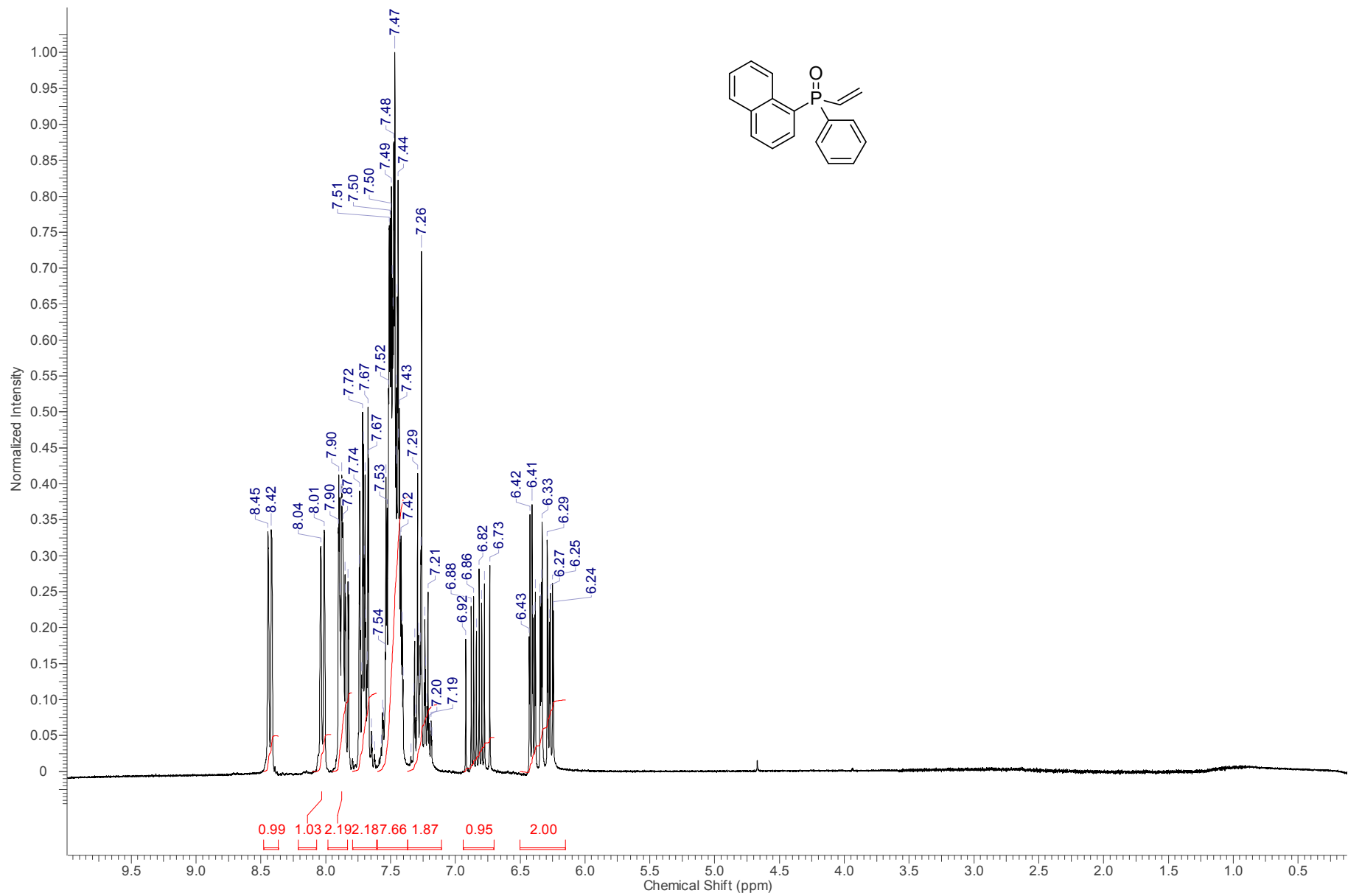
^1H , ^{13}C and ^{31}P NMR Spectra of All Compounds.....	S2-S87
ORTEP drawings of compounds 29c and 39b	S88-S89

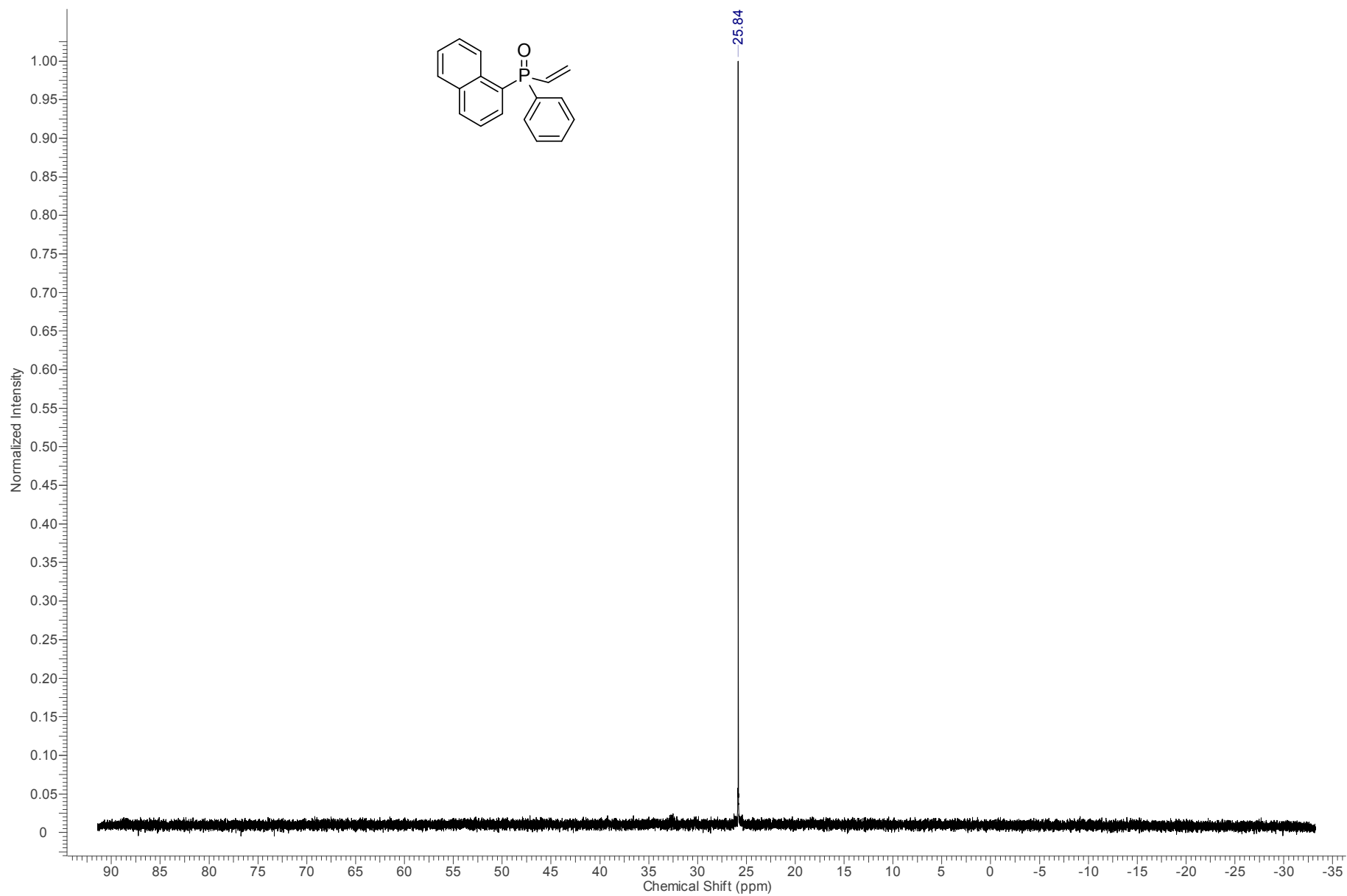


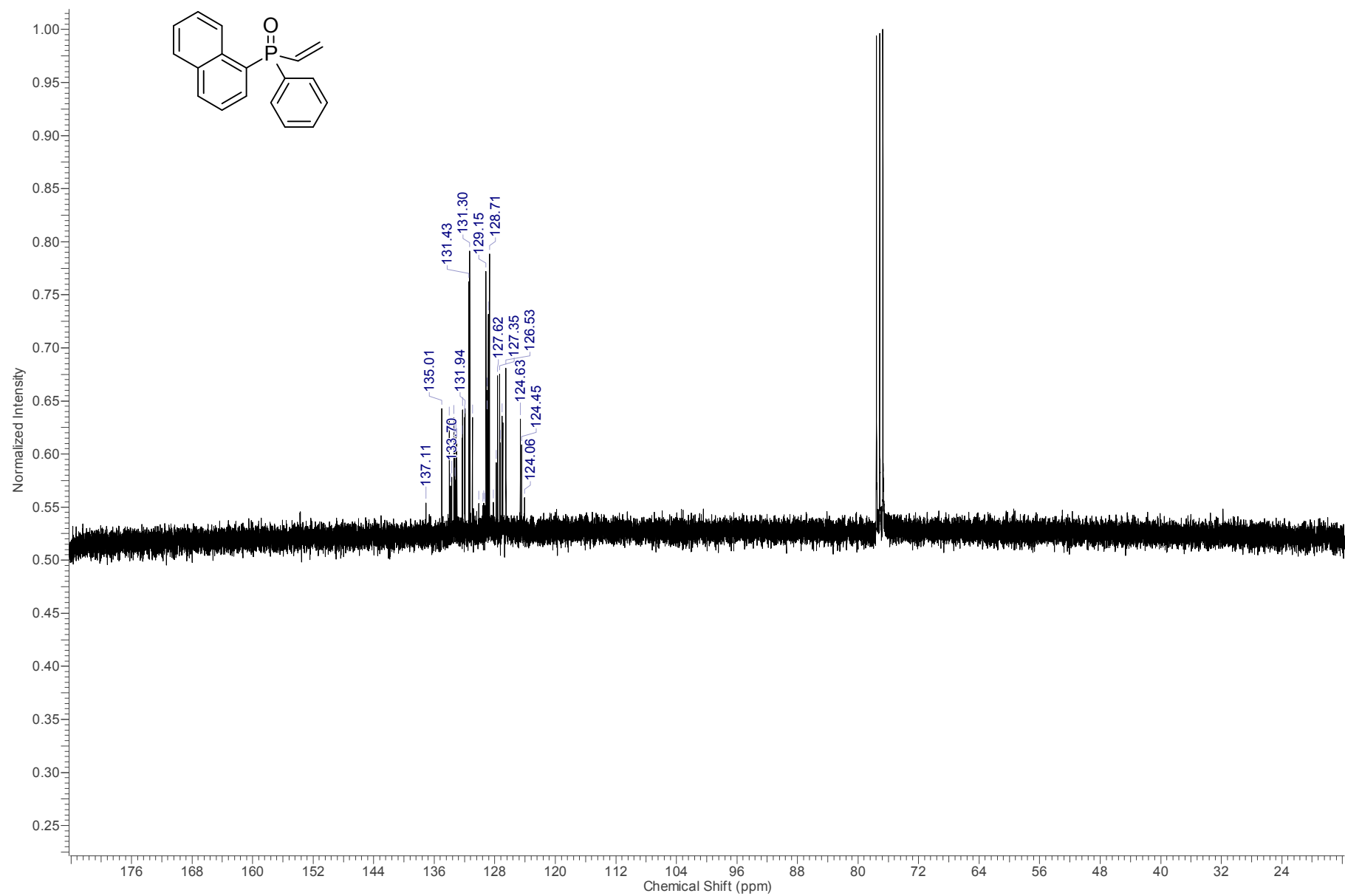


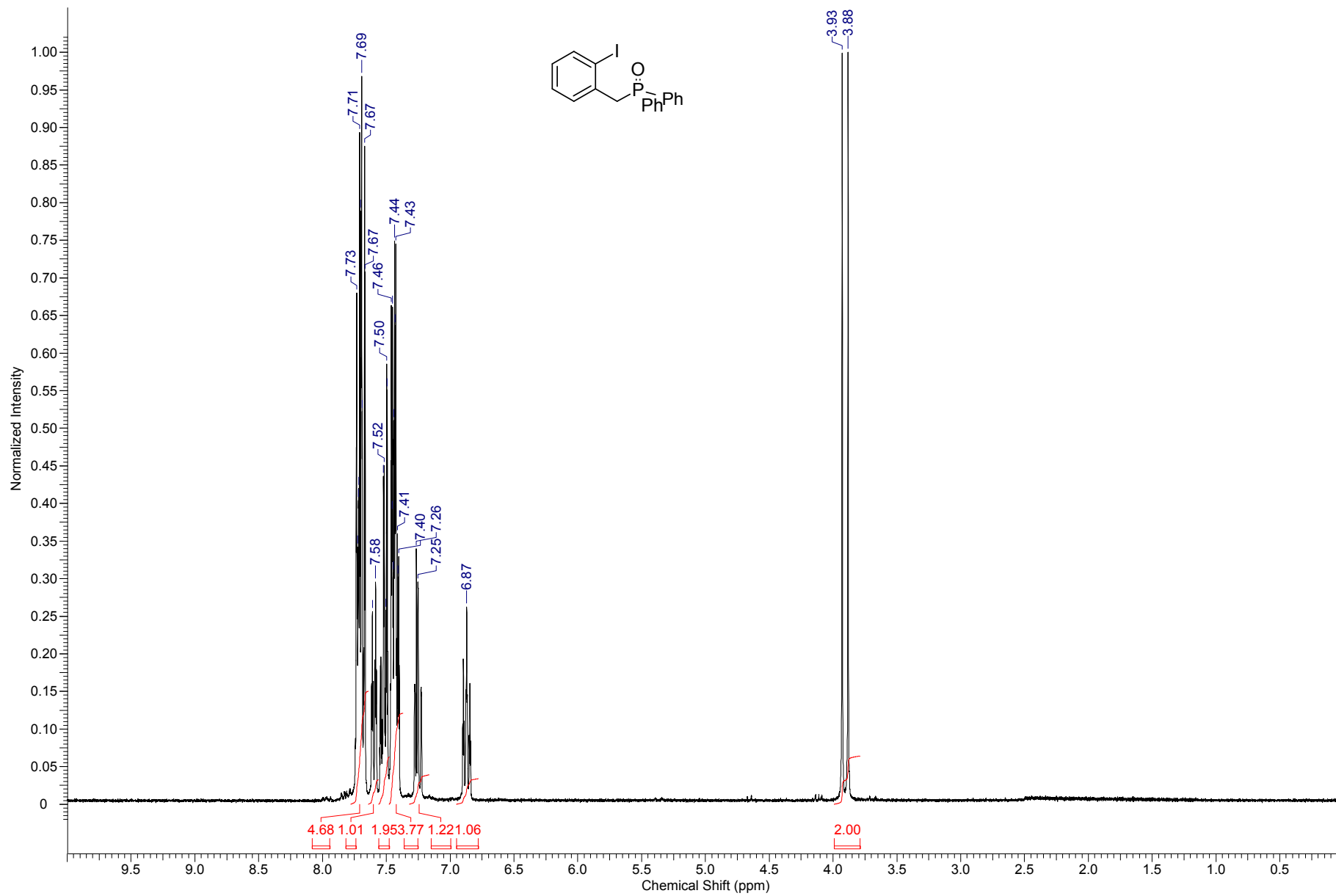
S3

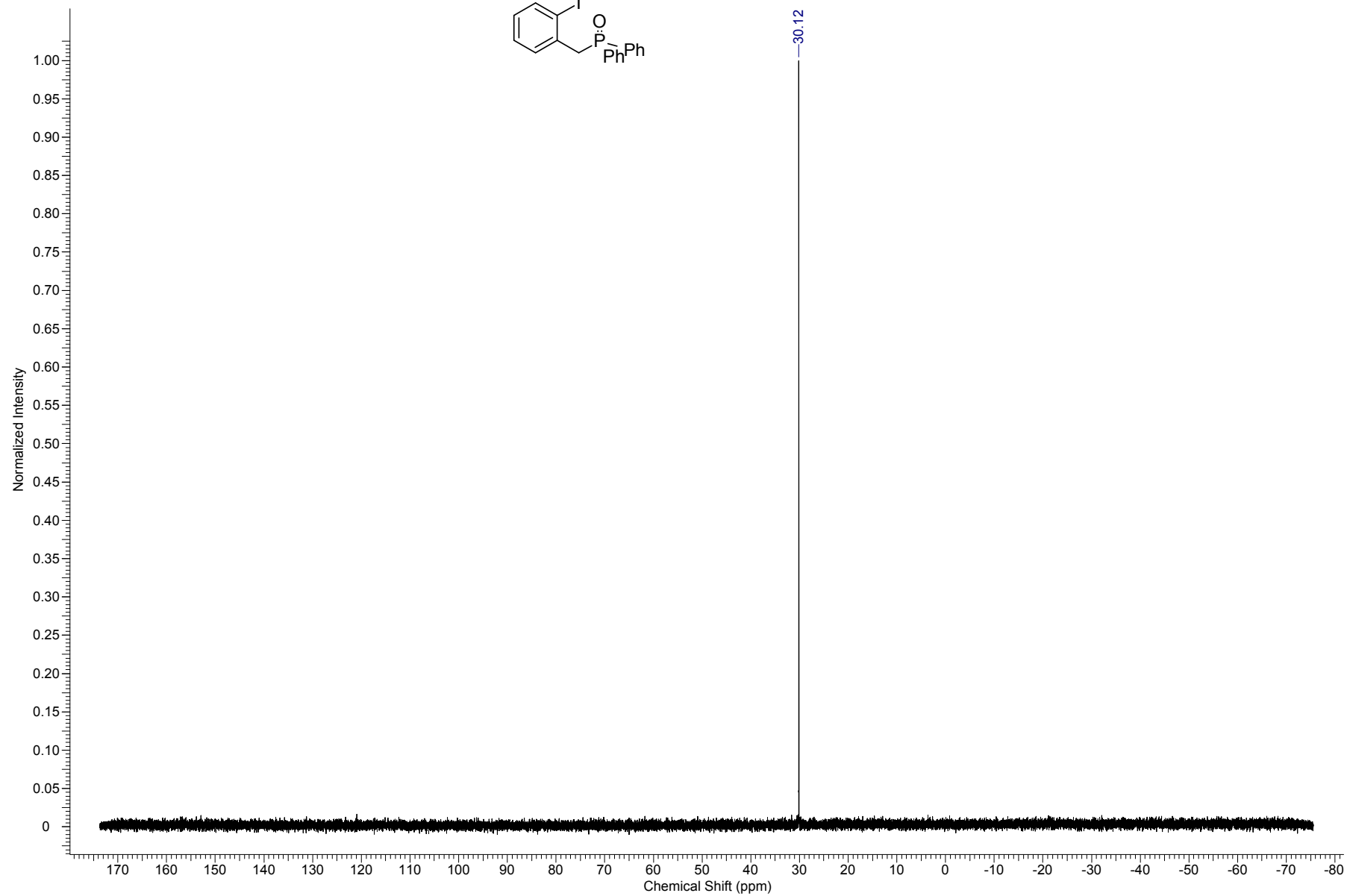
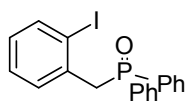


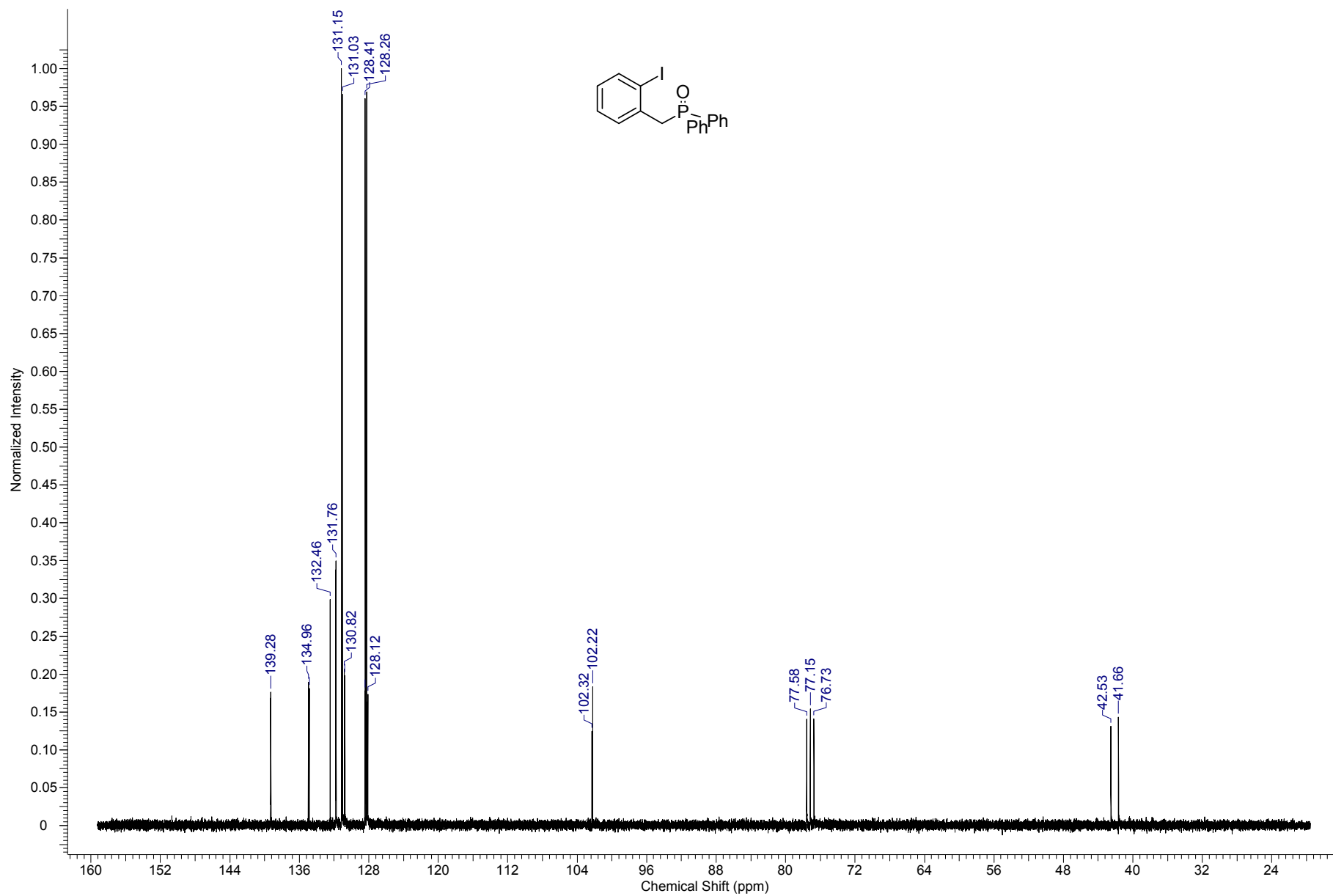


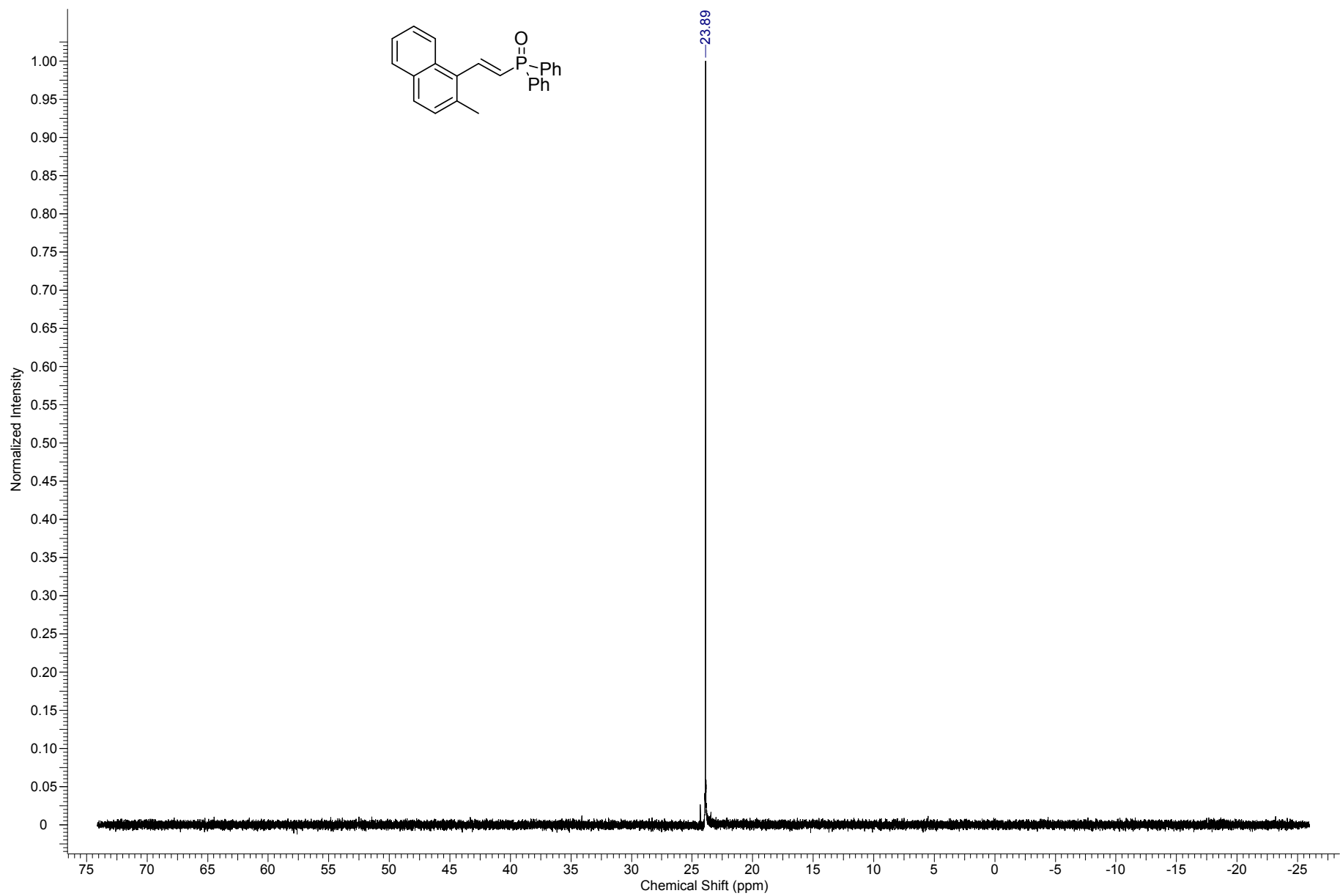




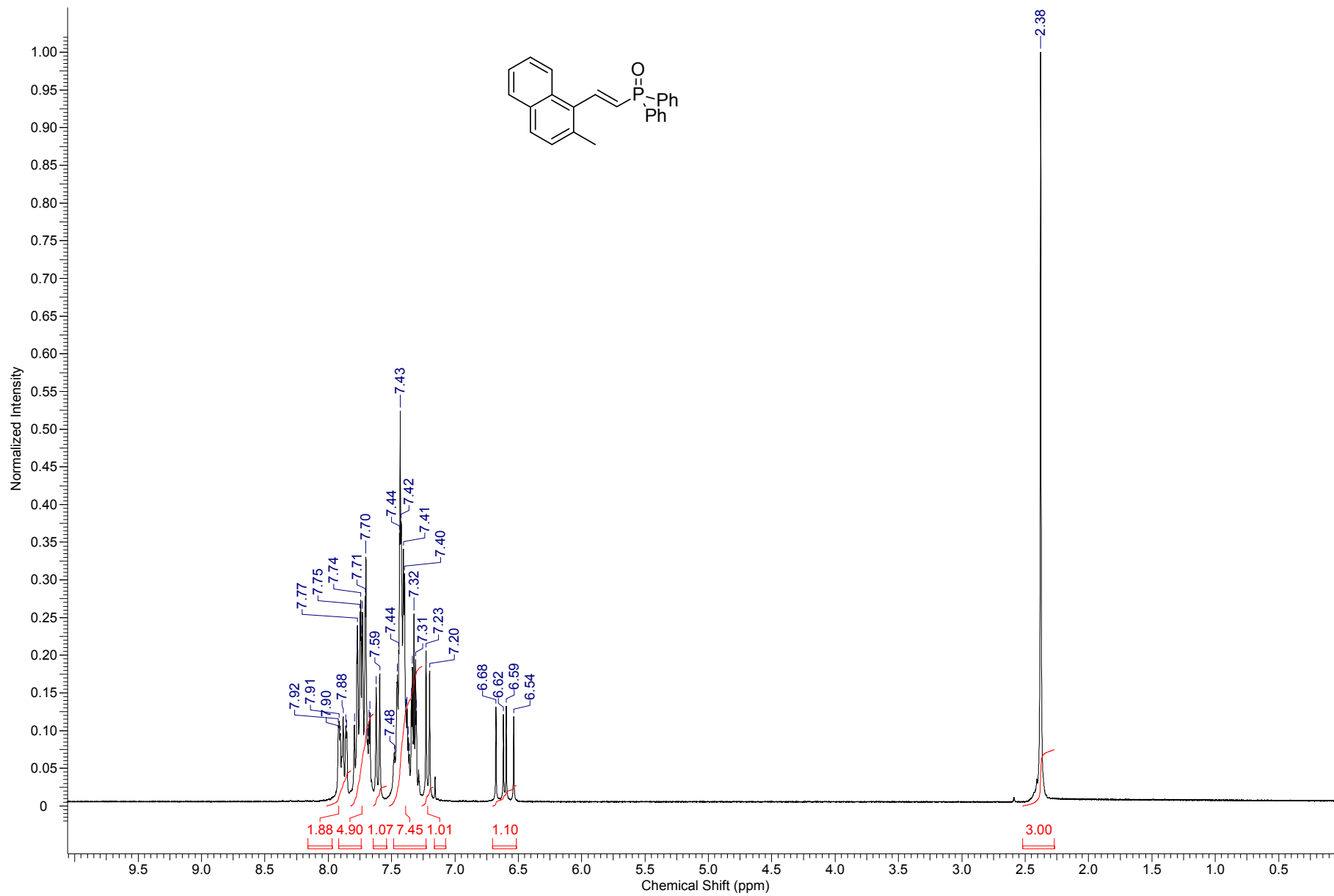


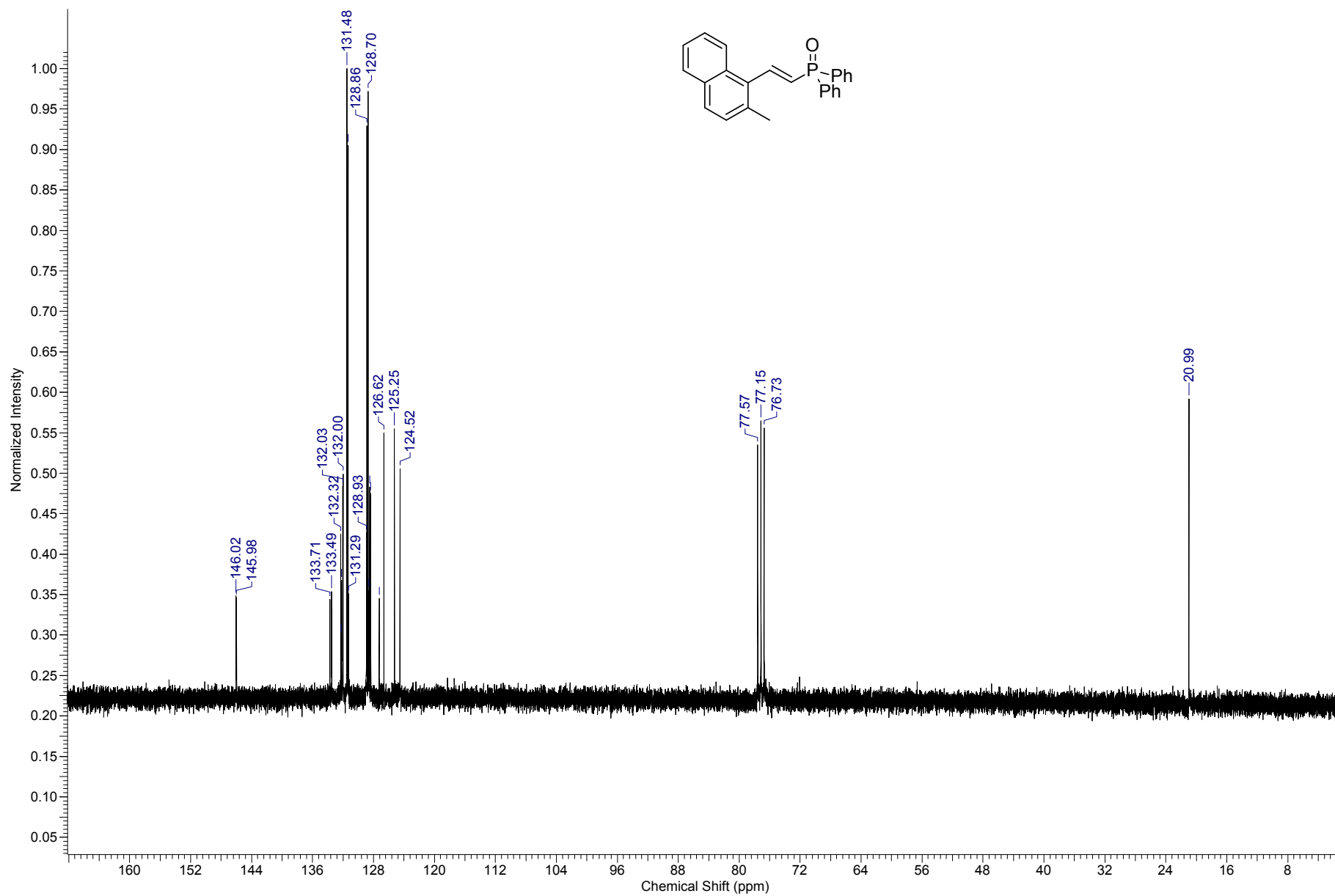


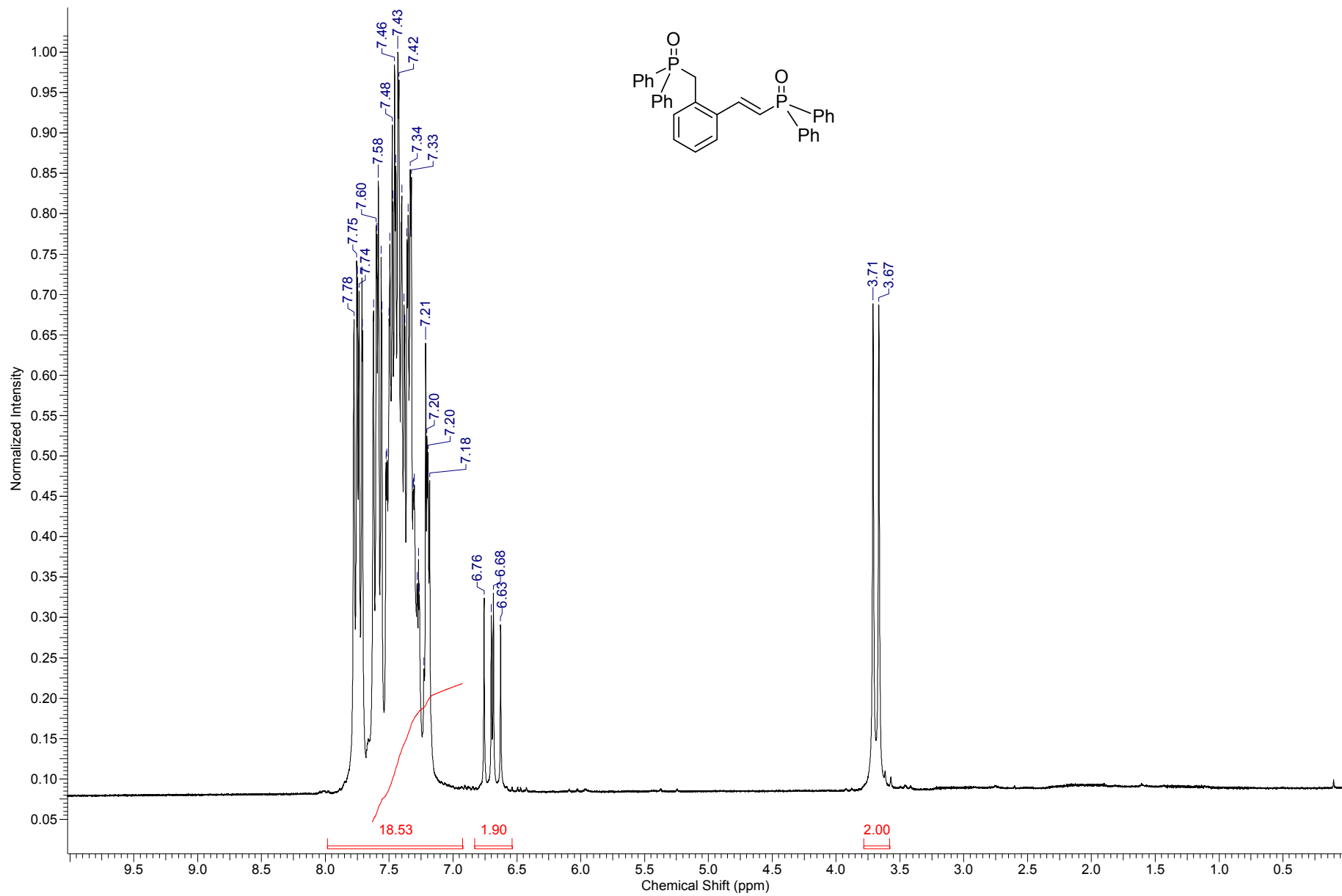


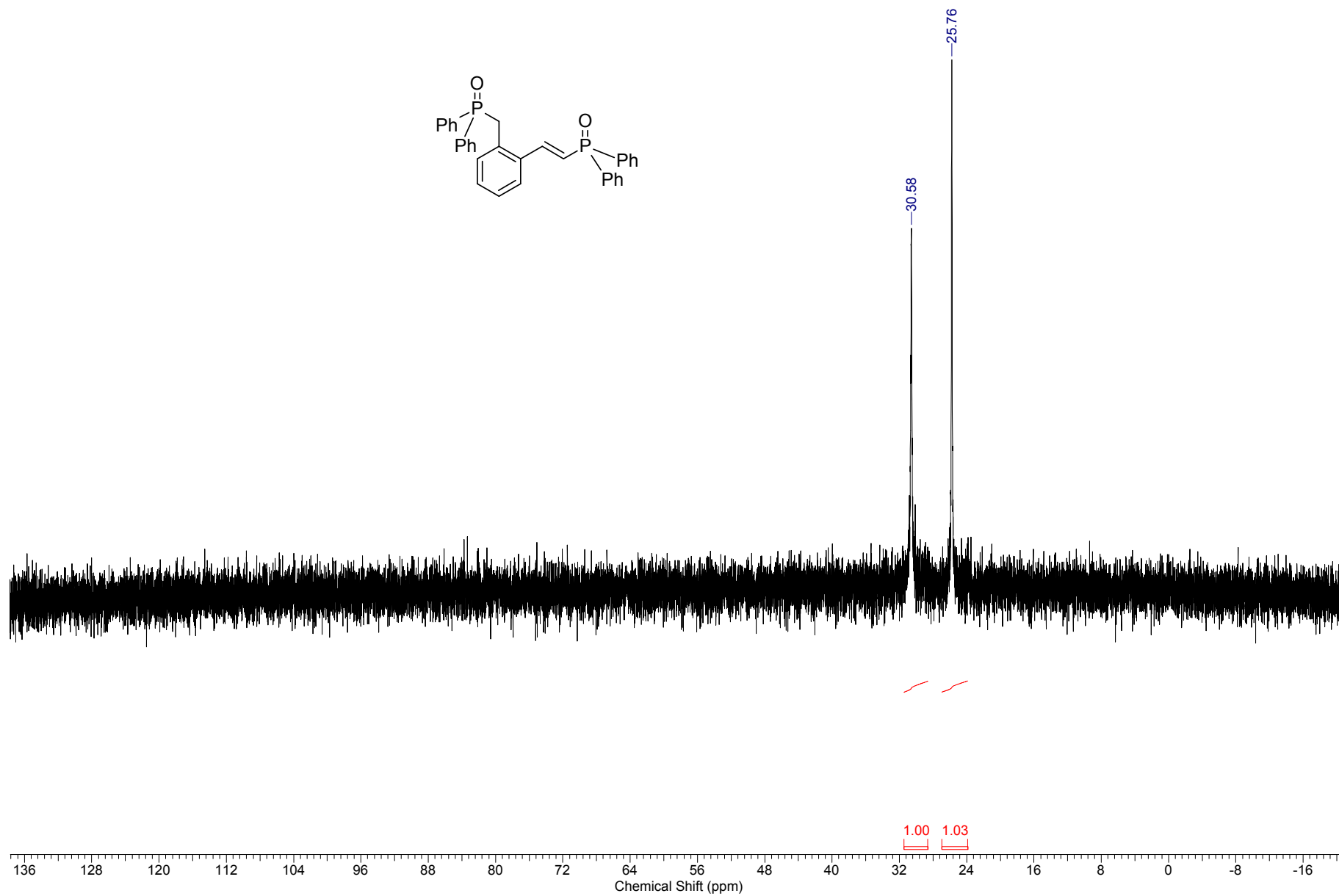
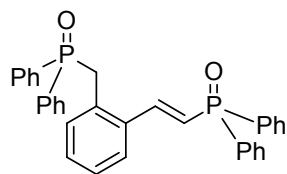


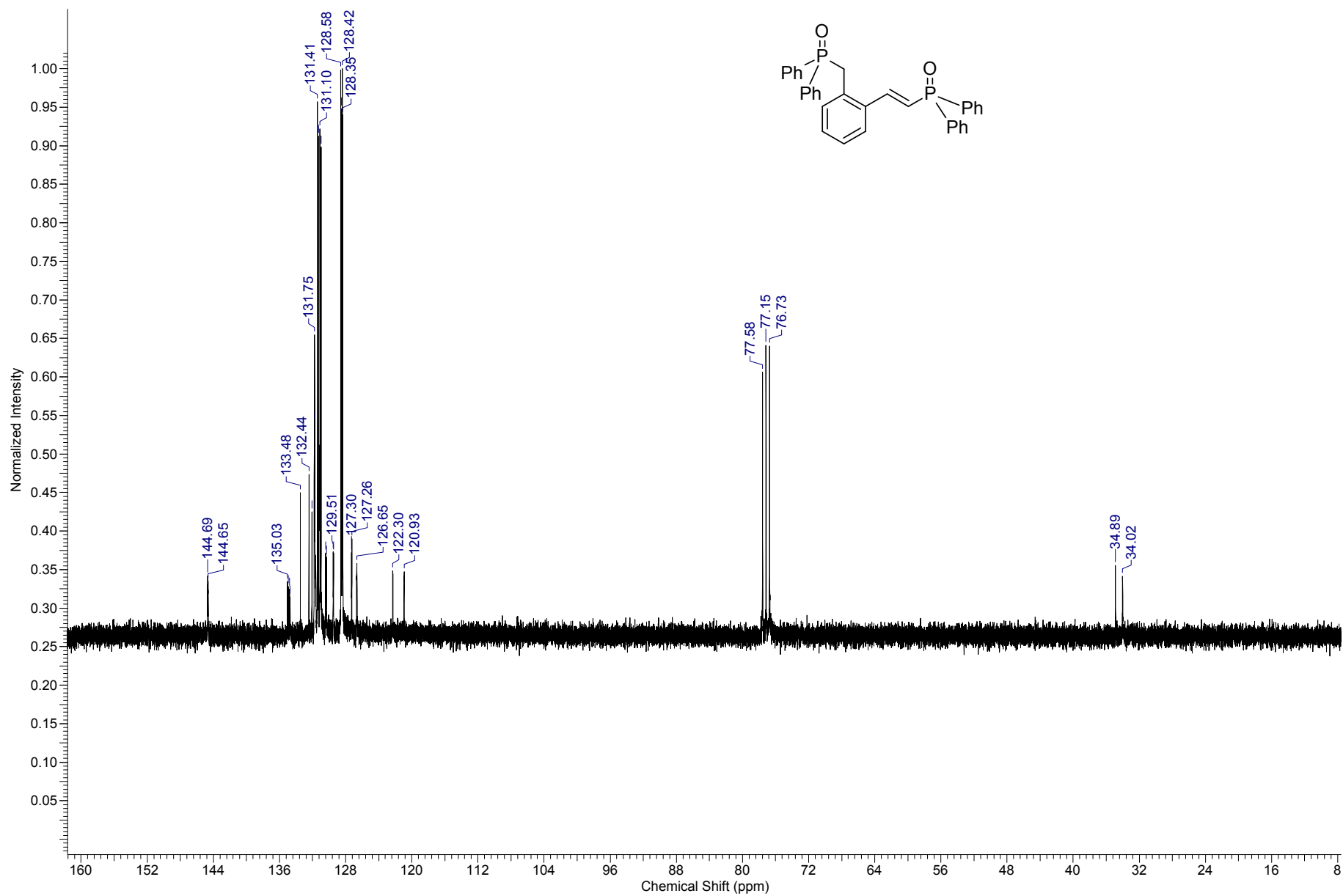
S11

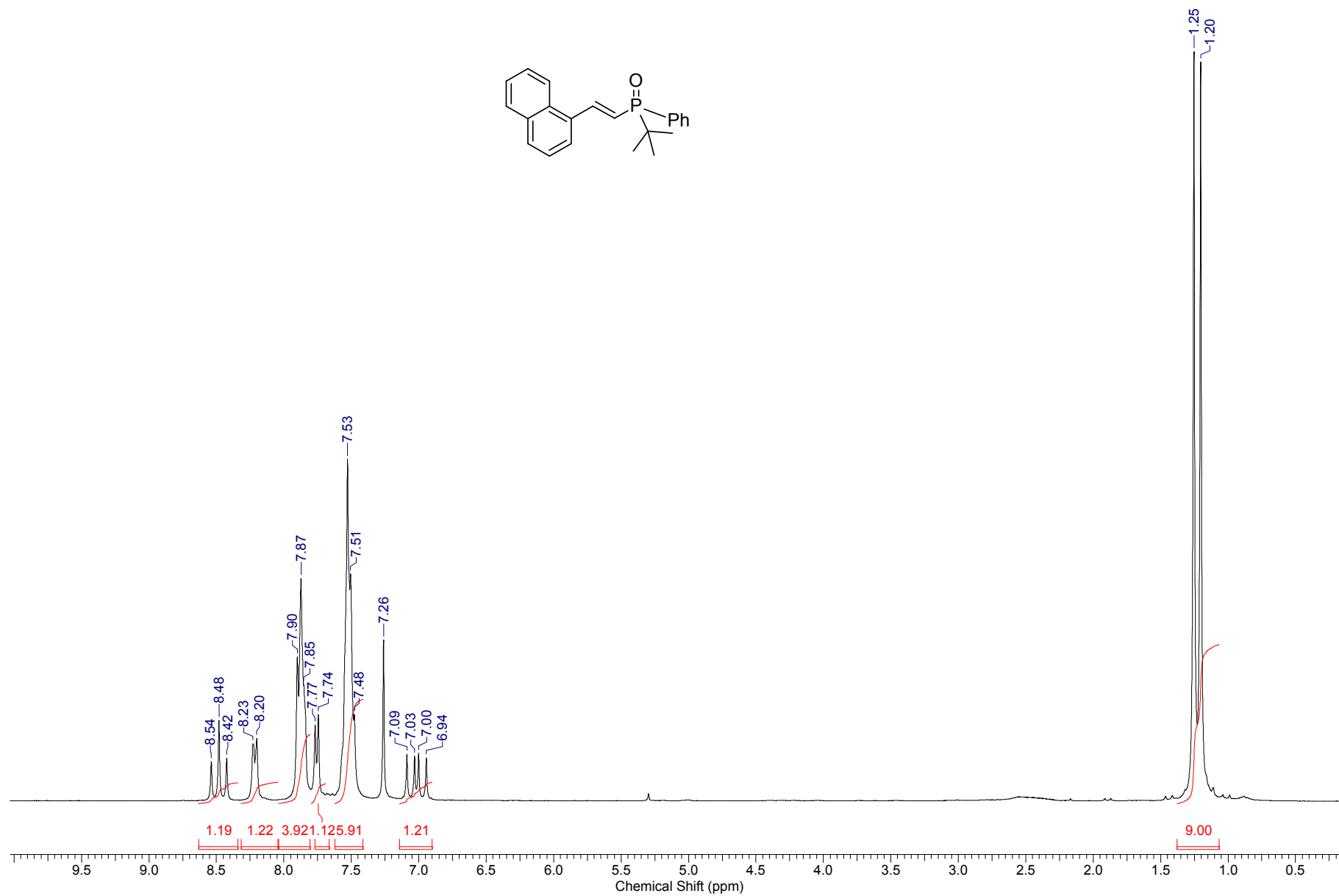
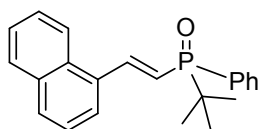


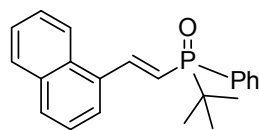




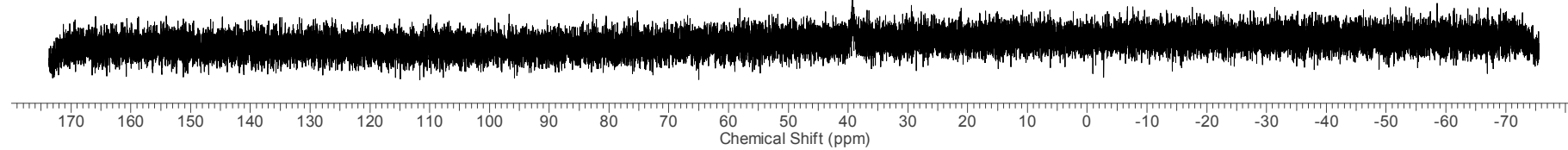




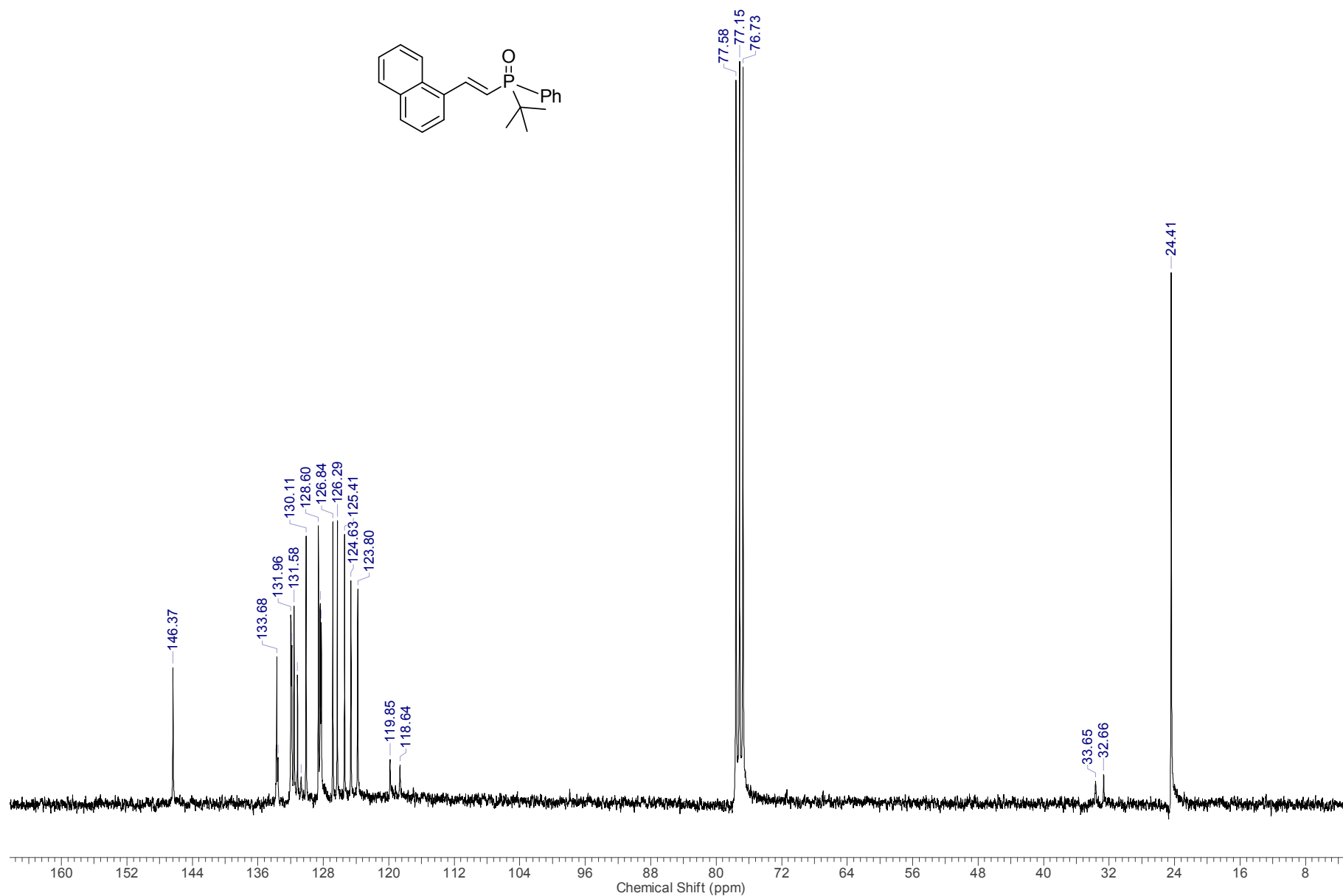
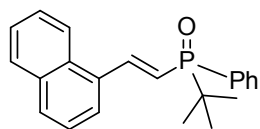


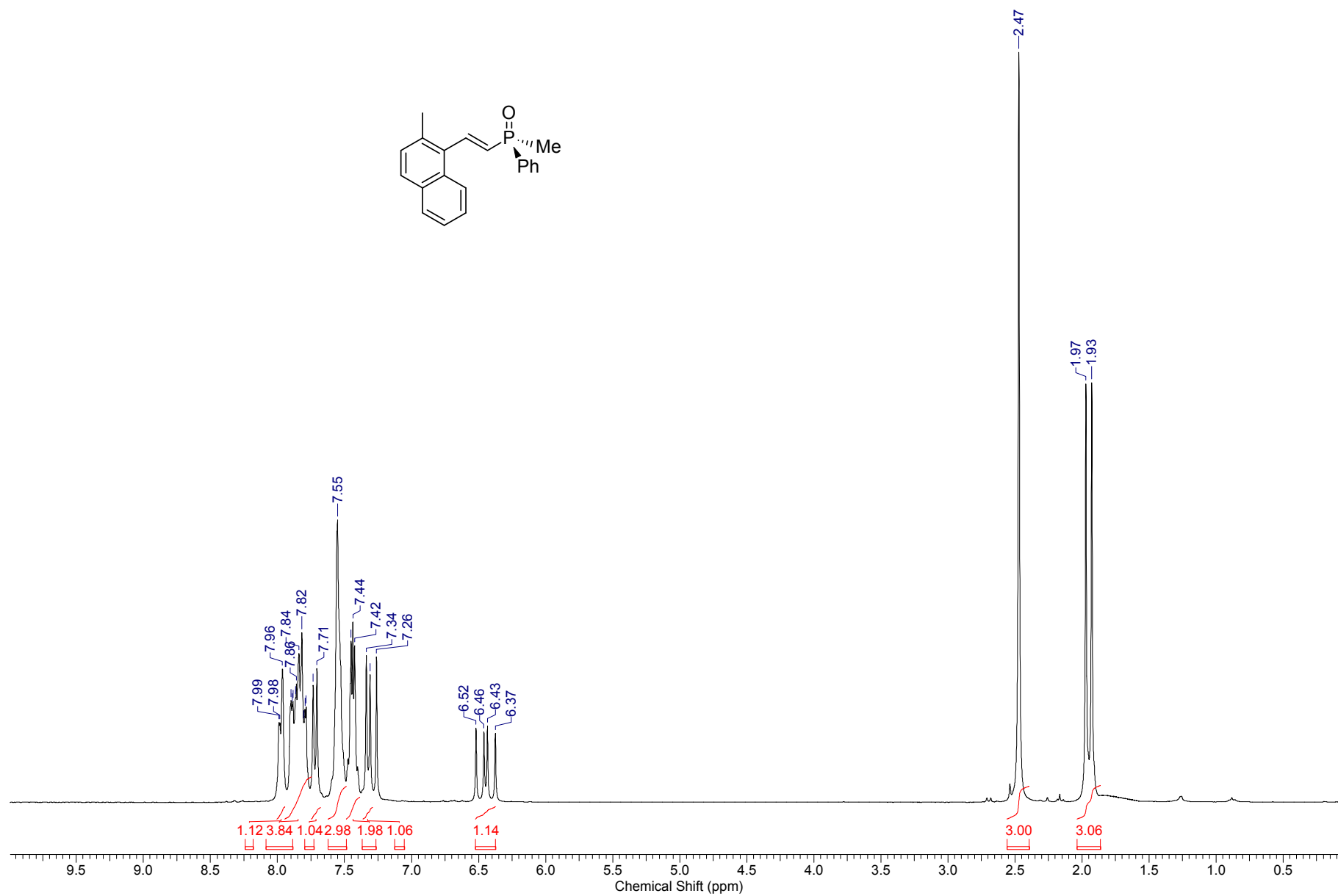
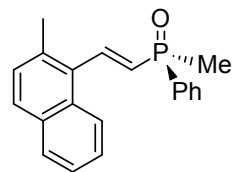


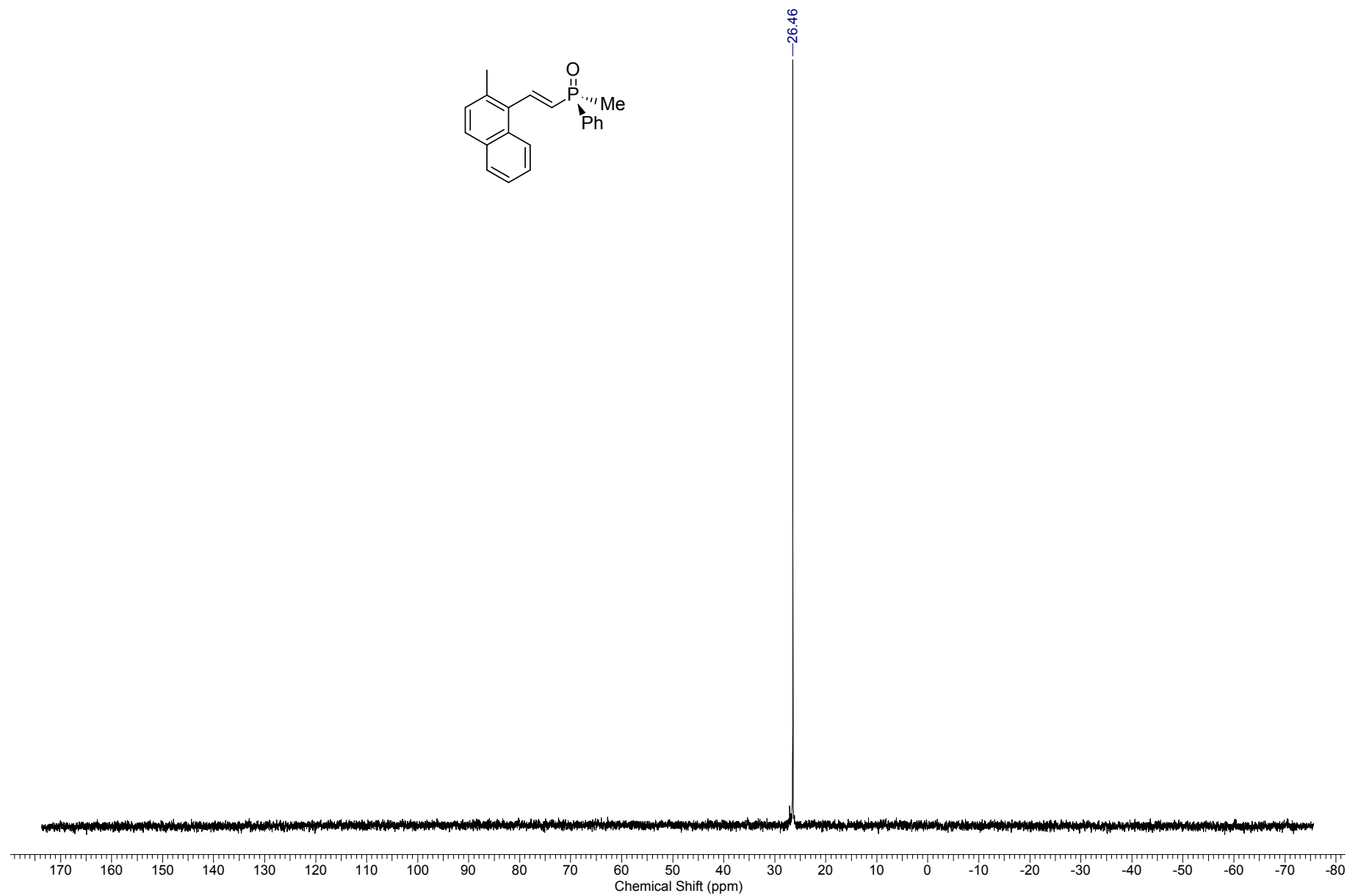
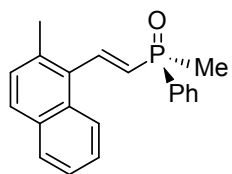
39.25



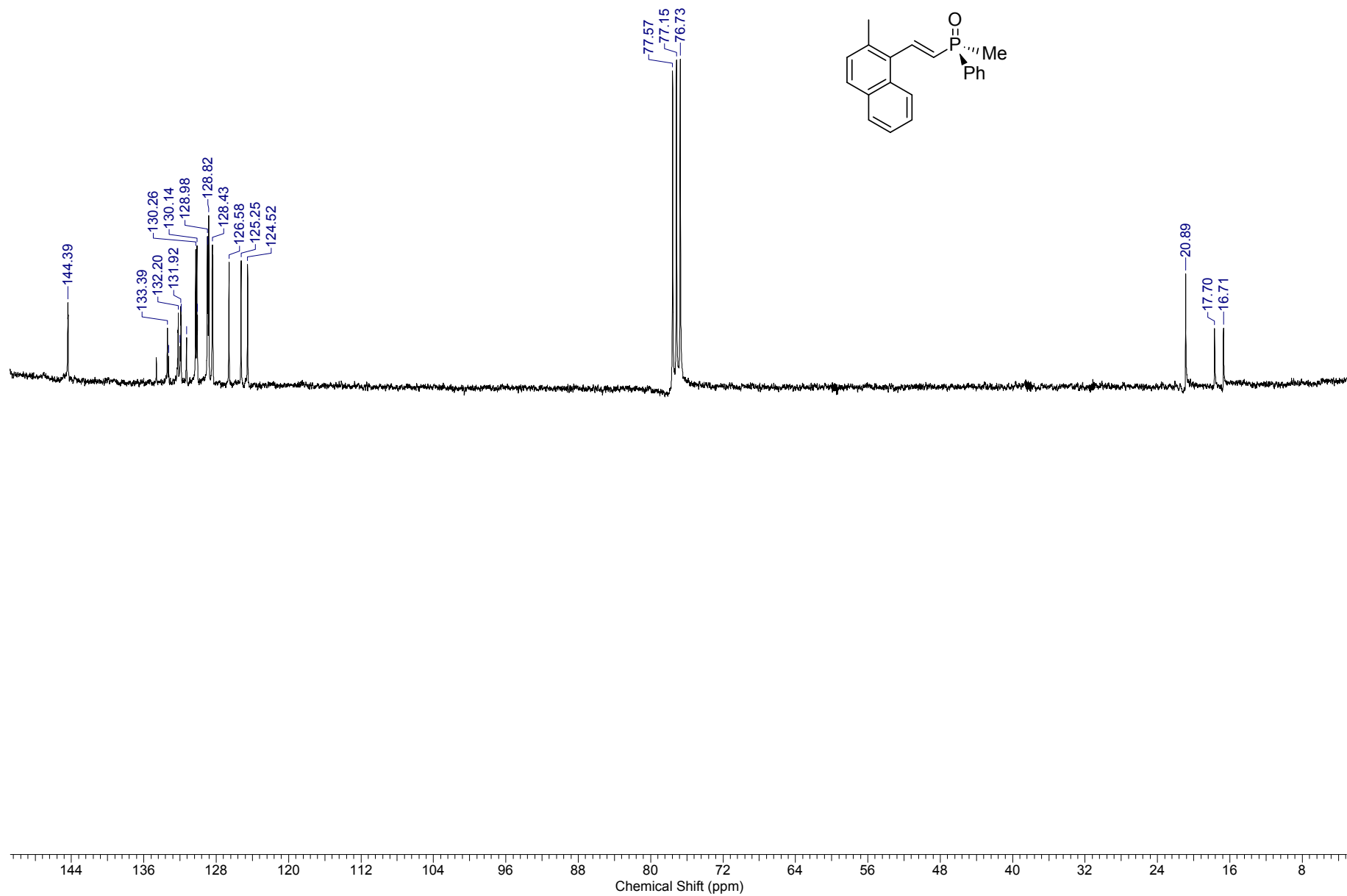
S18

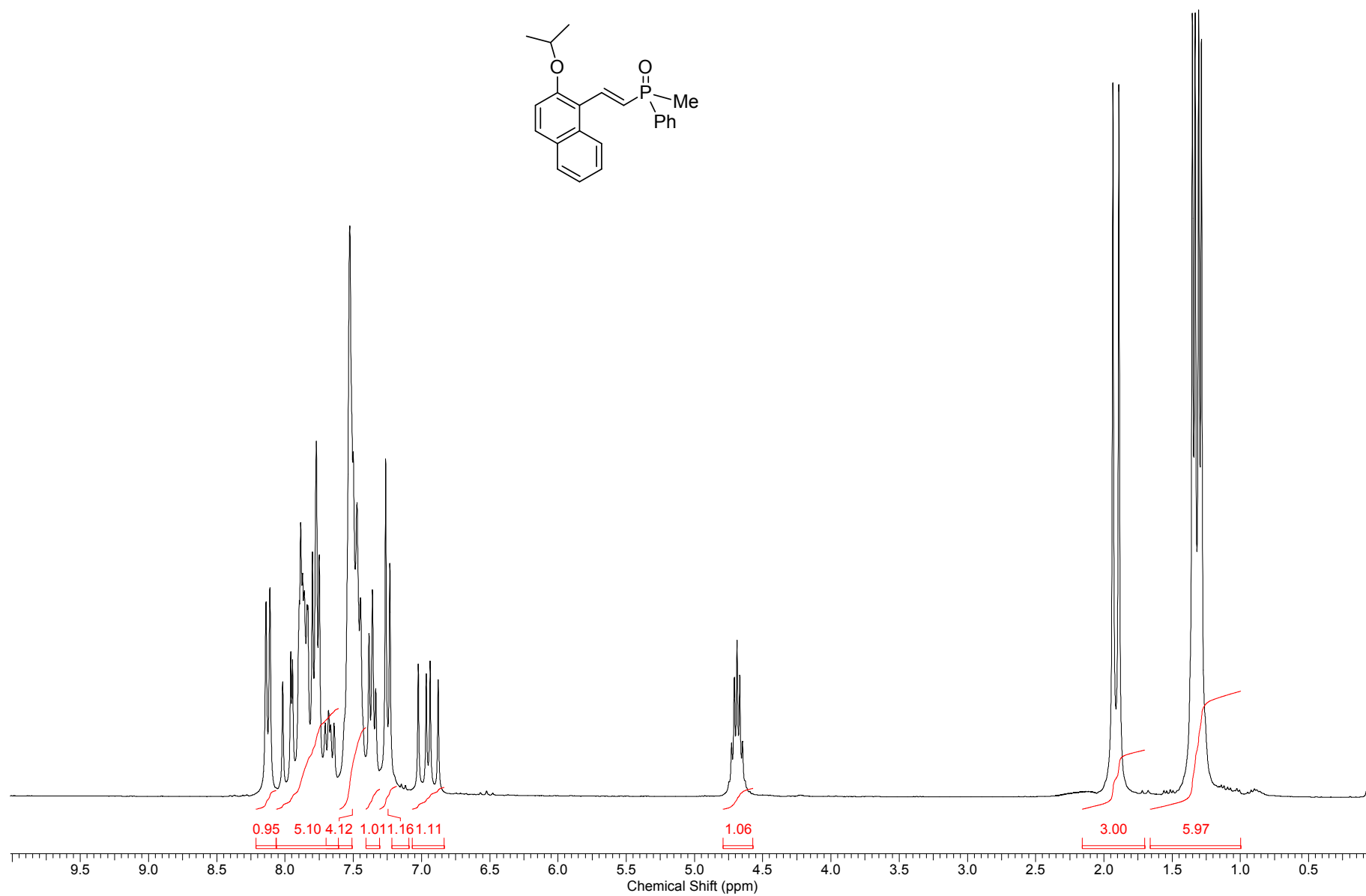
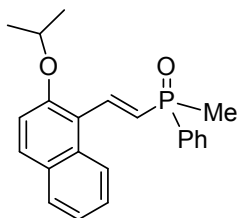


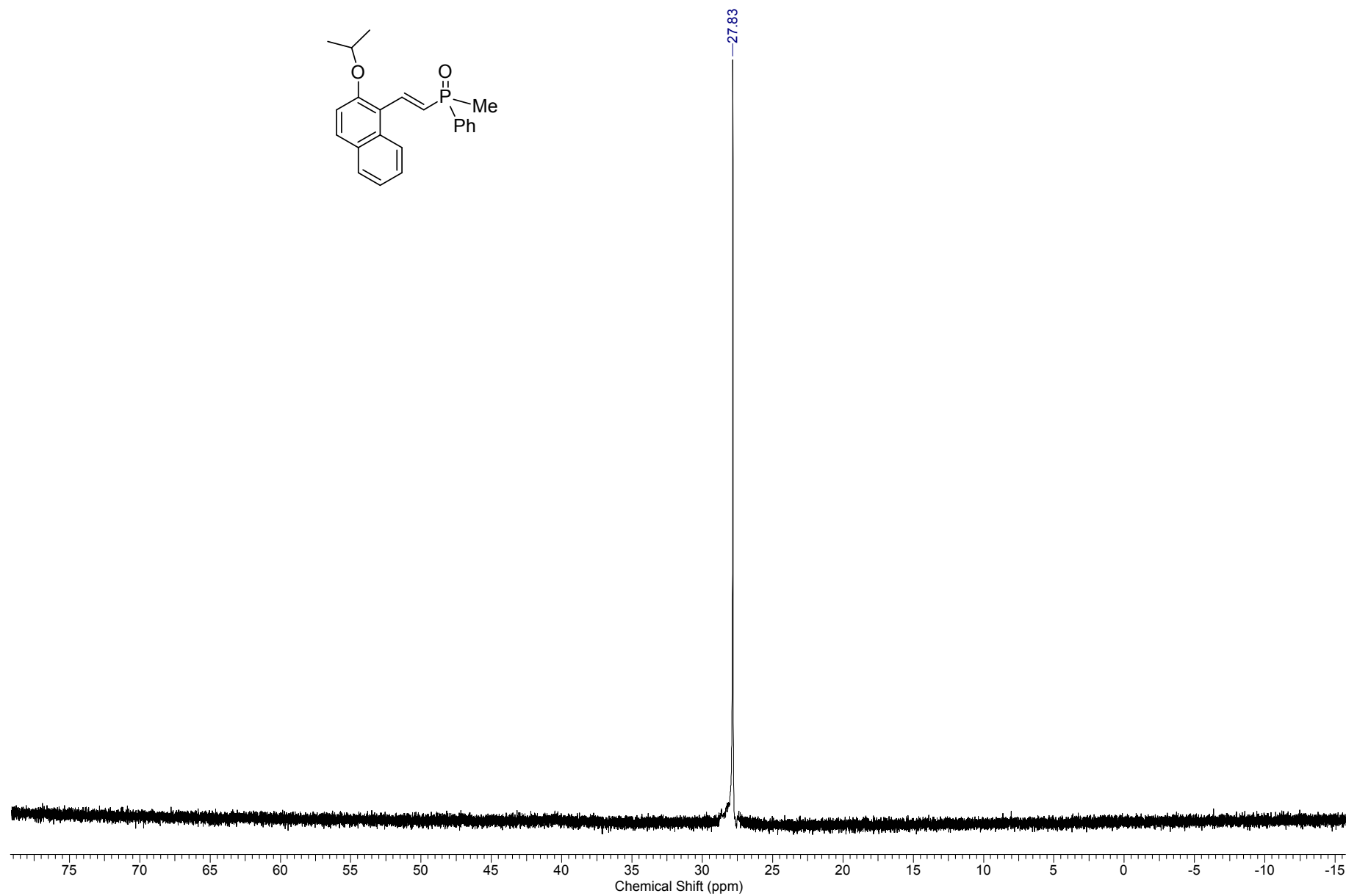
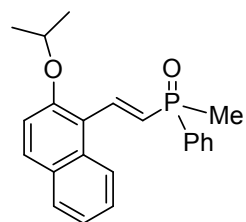




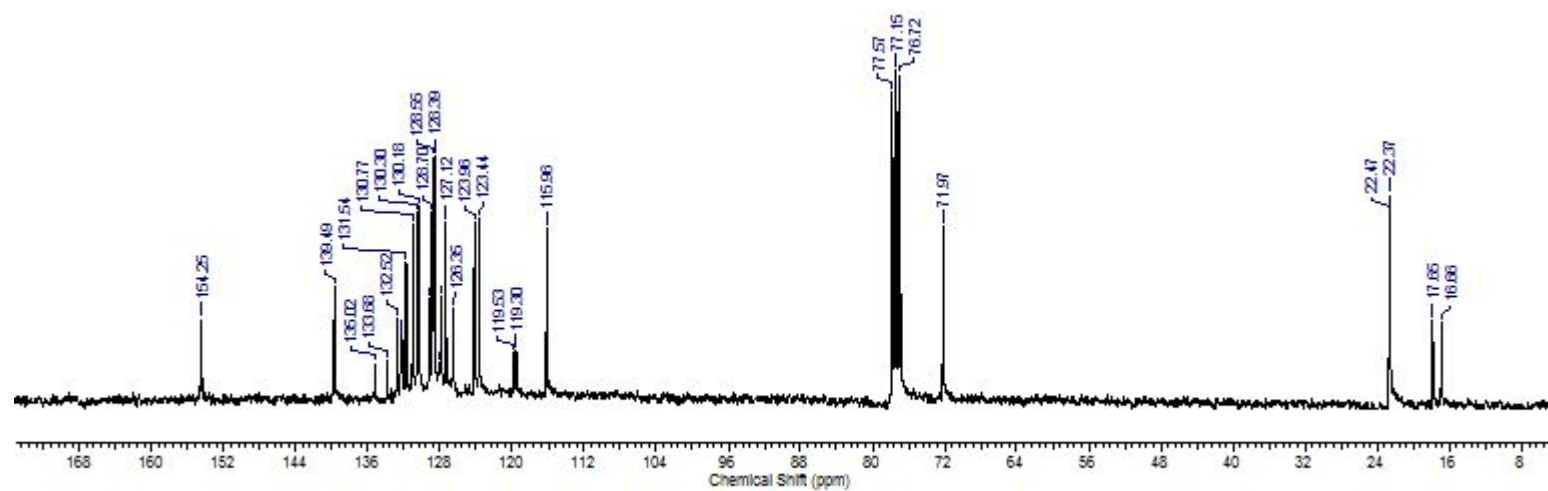
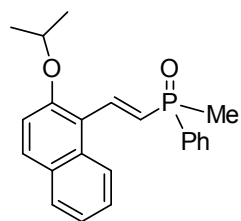
S21

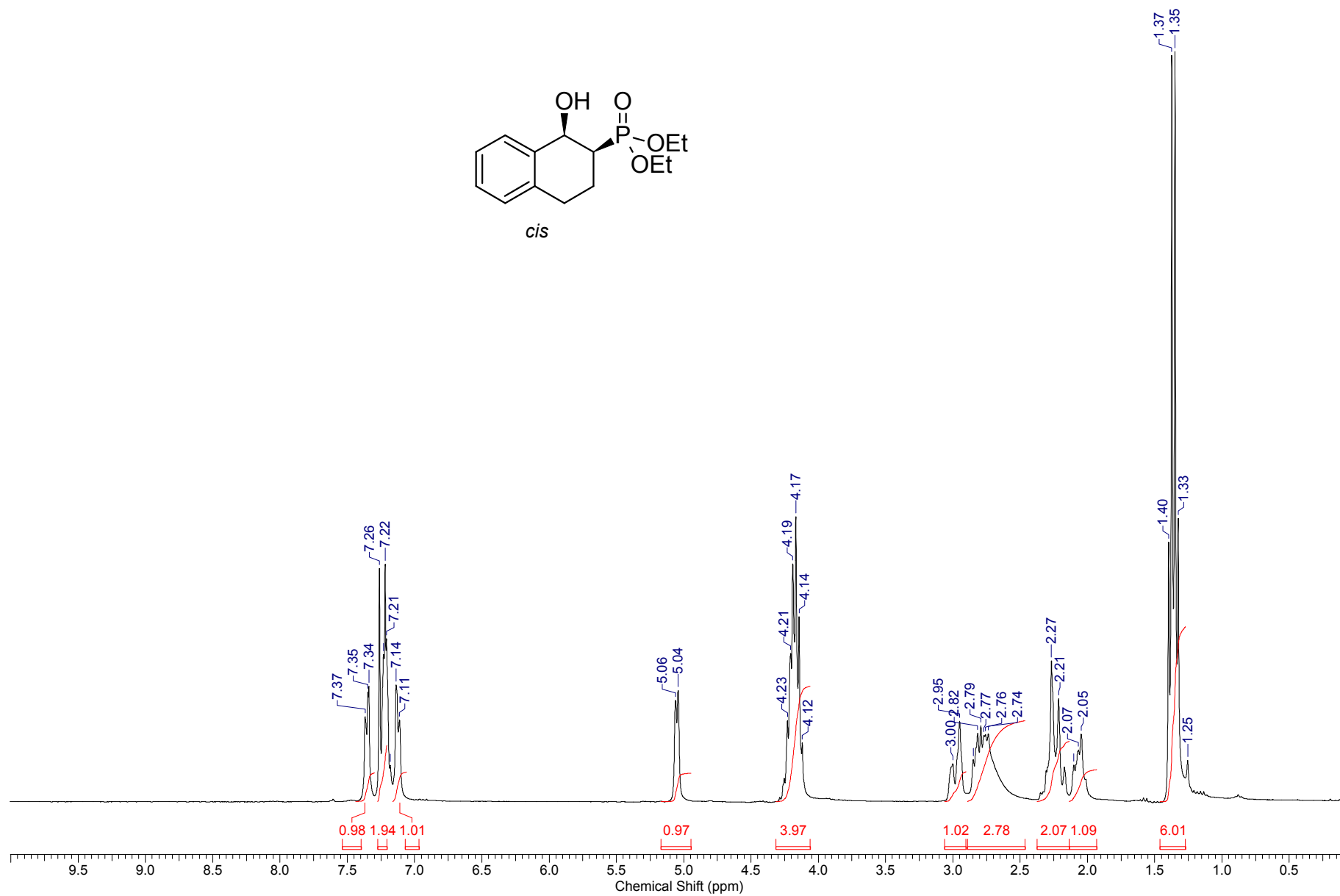
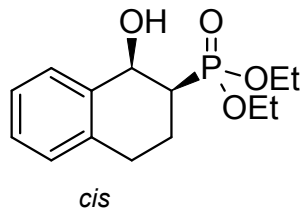


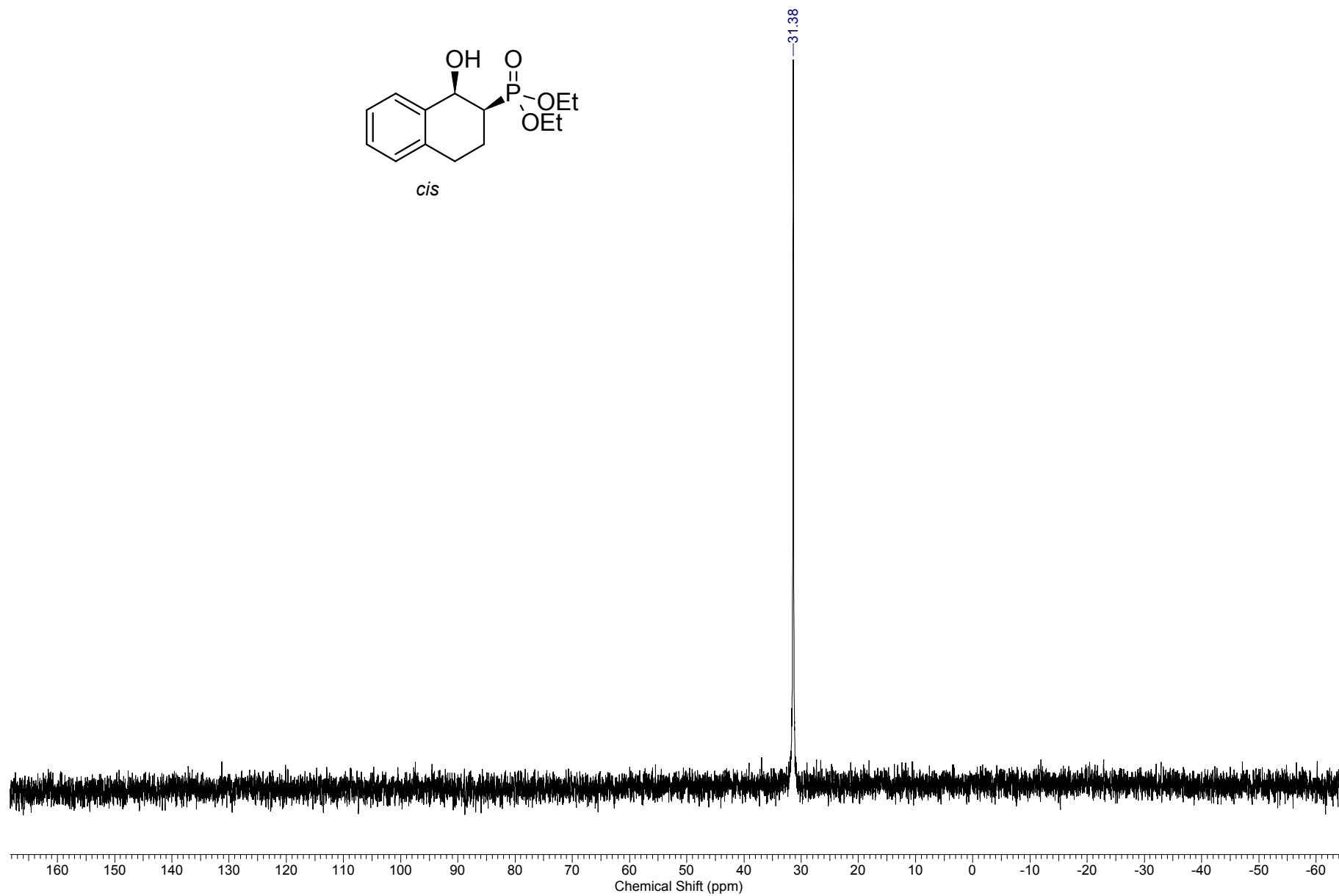
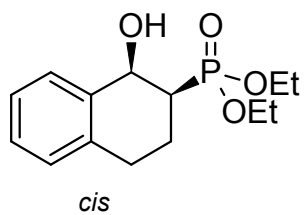


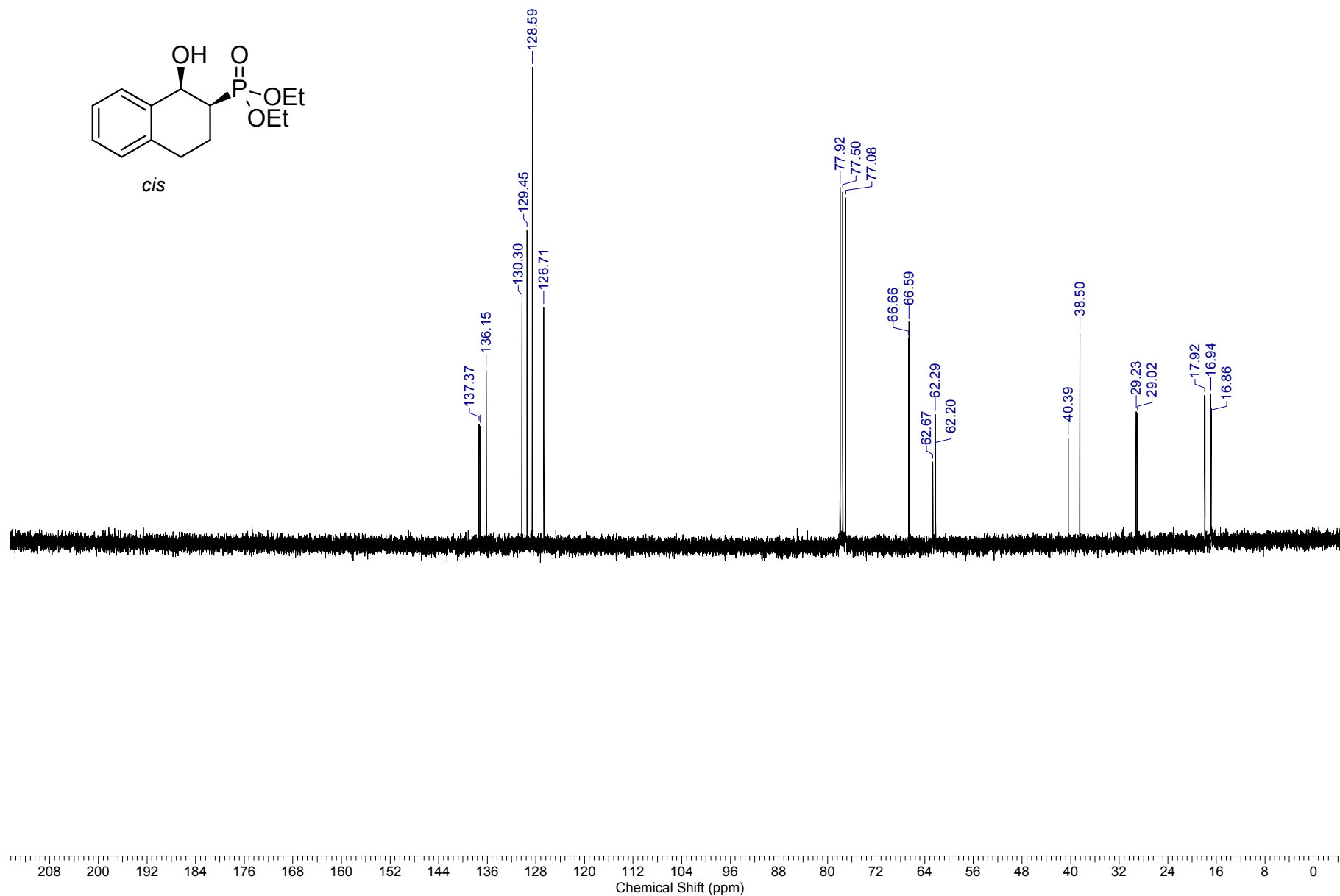
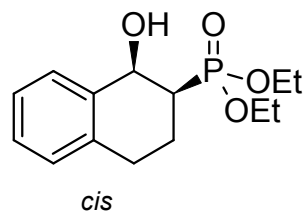


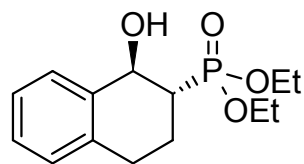
S24



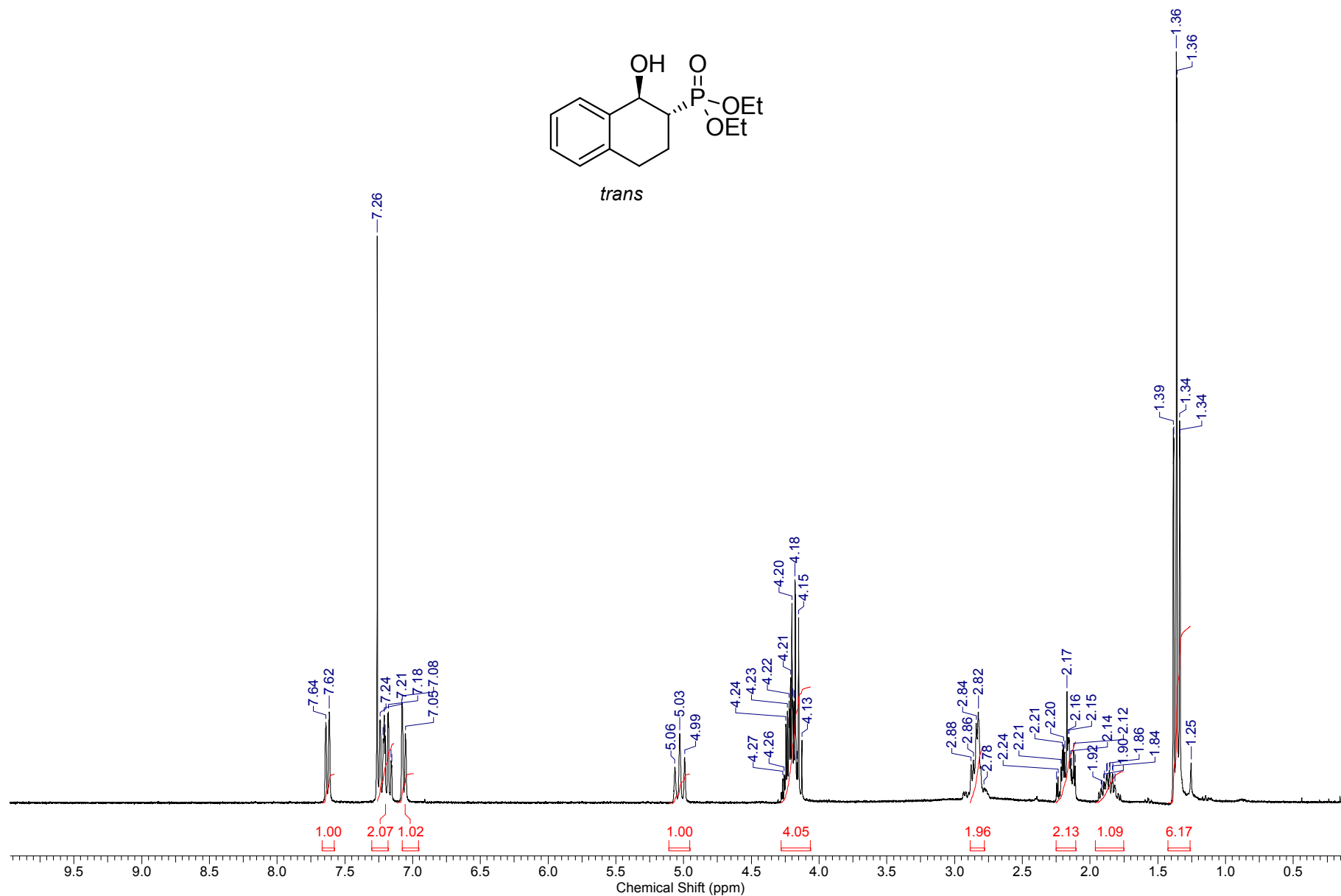


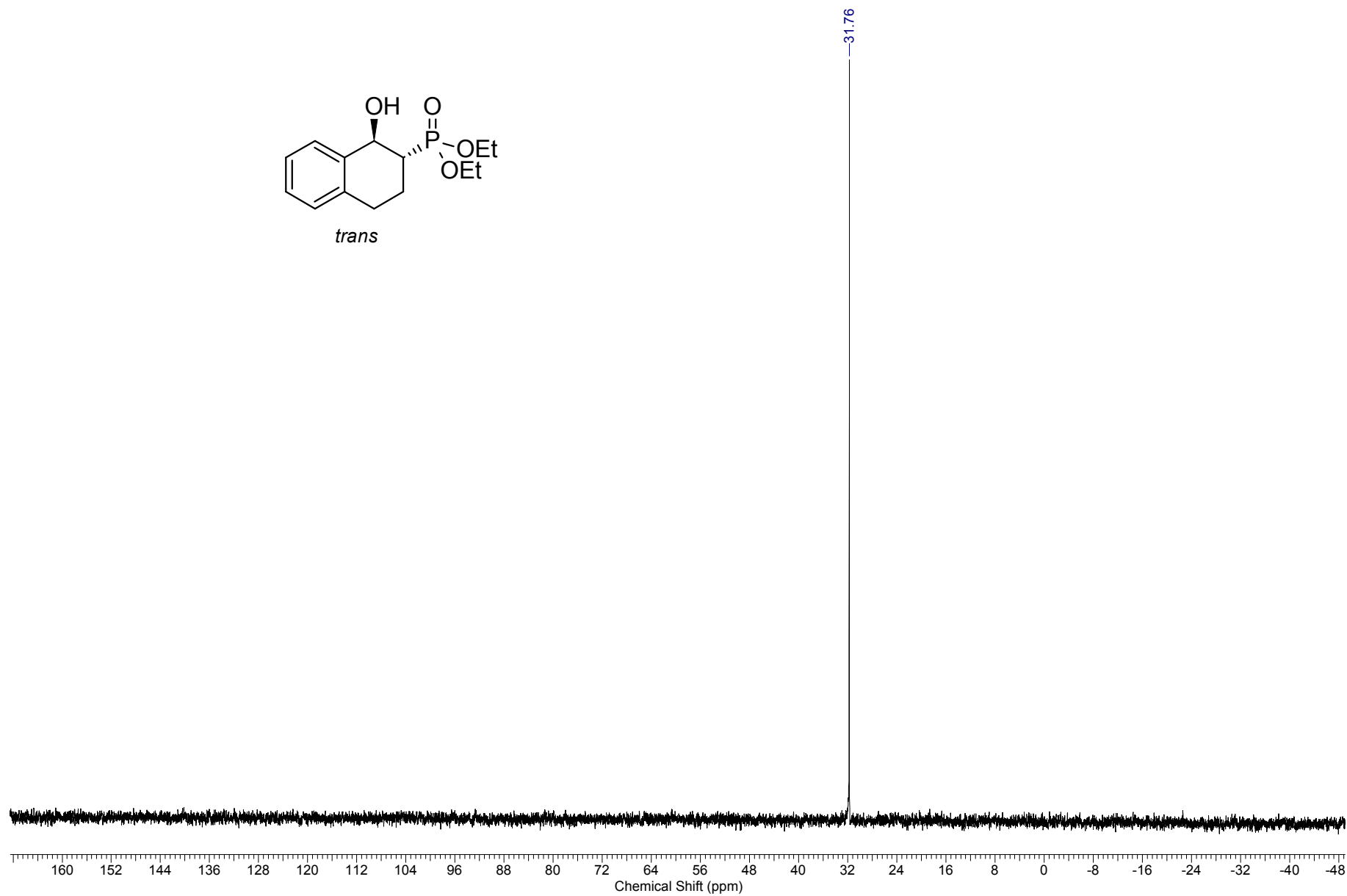
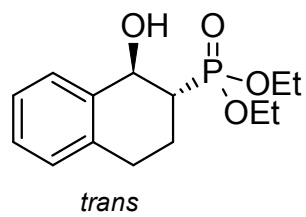




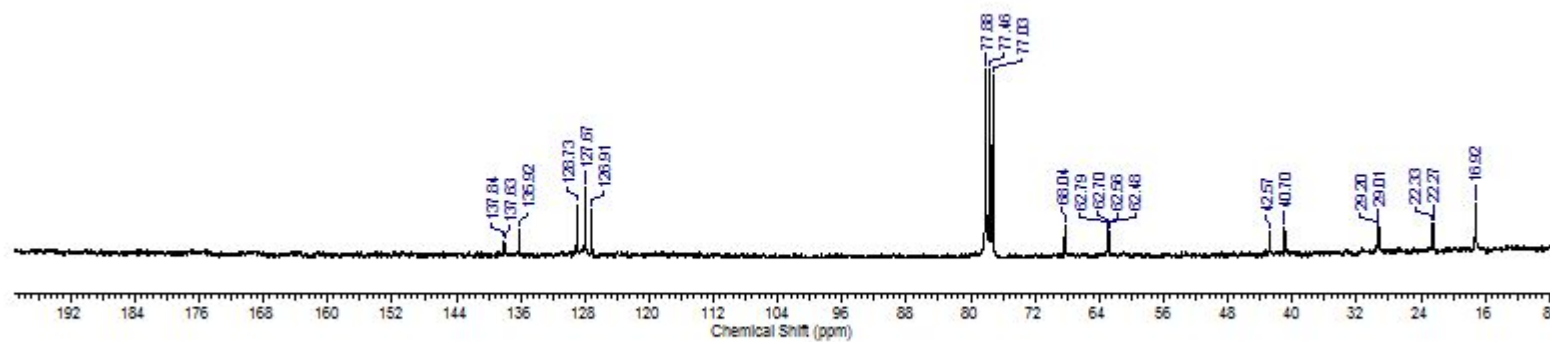
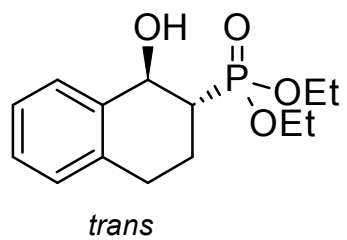


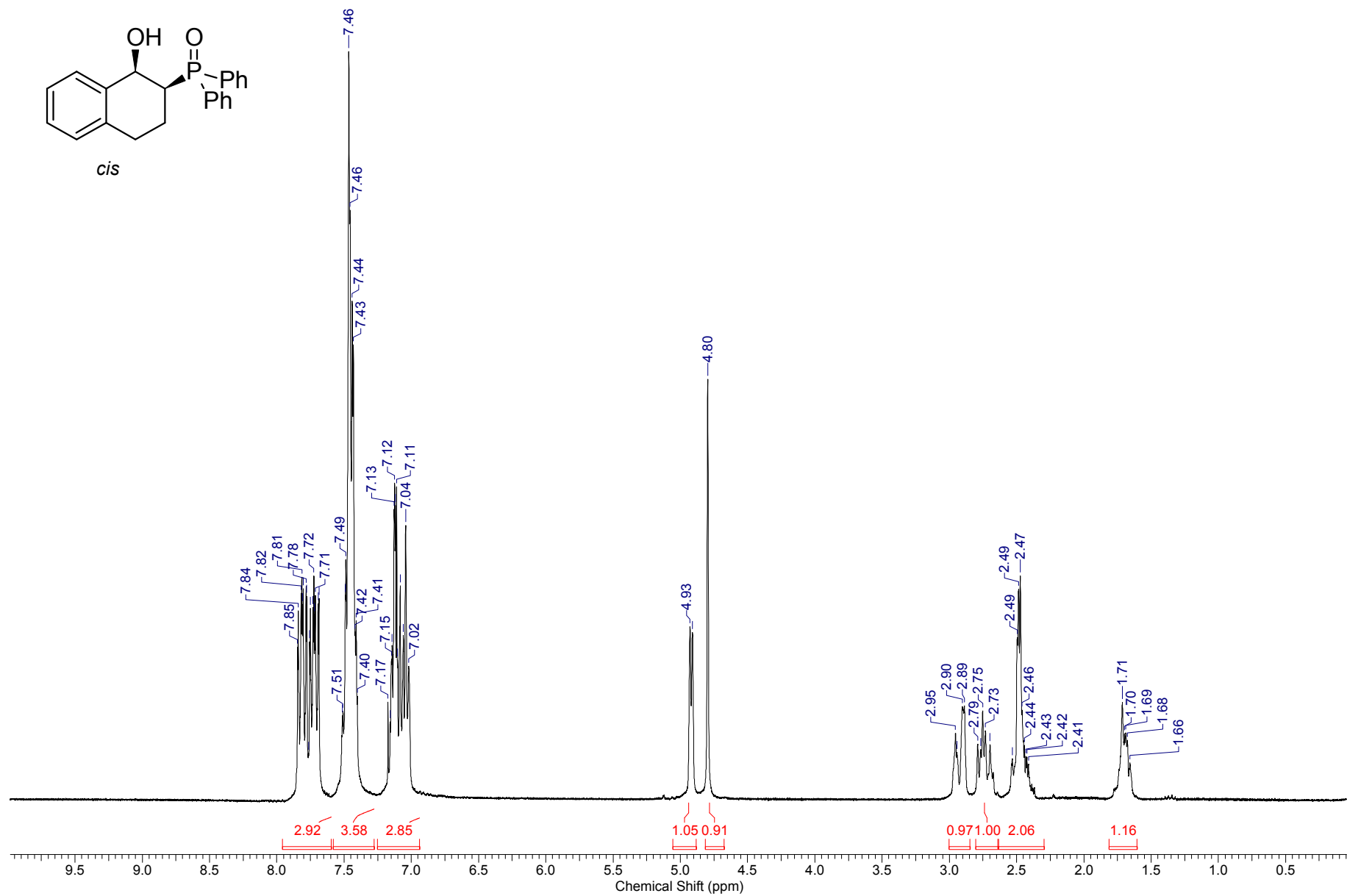
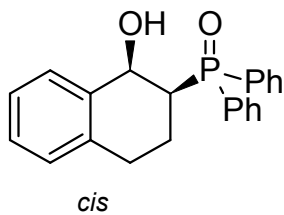
trans

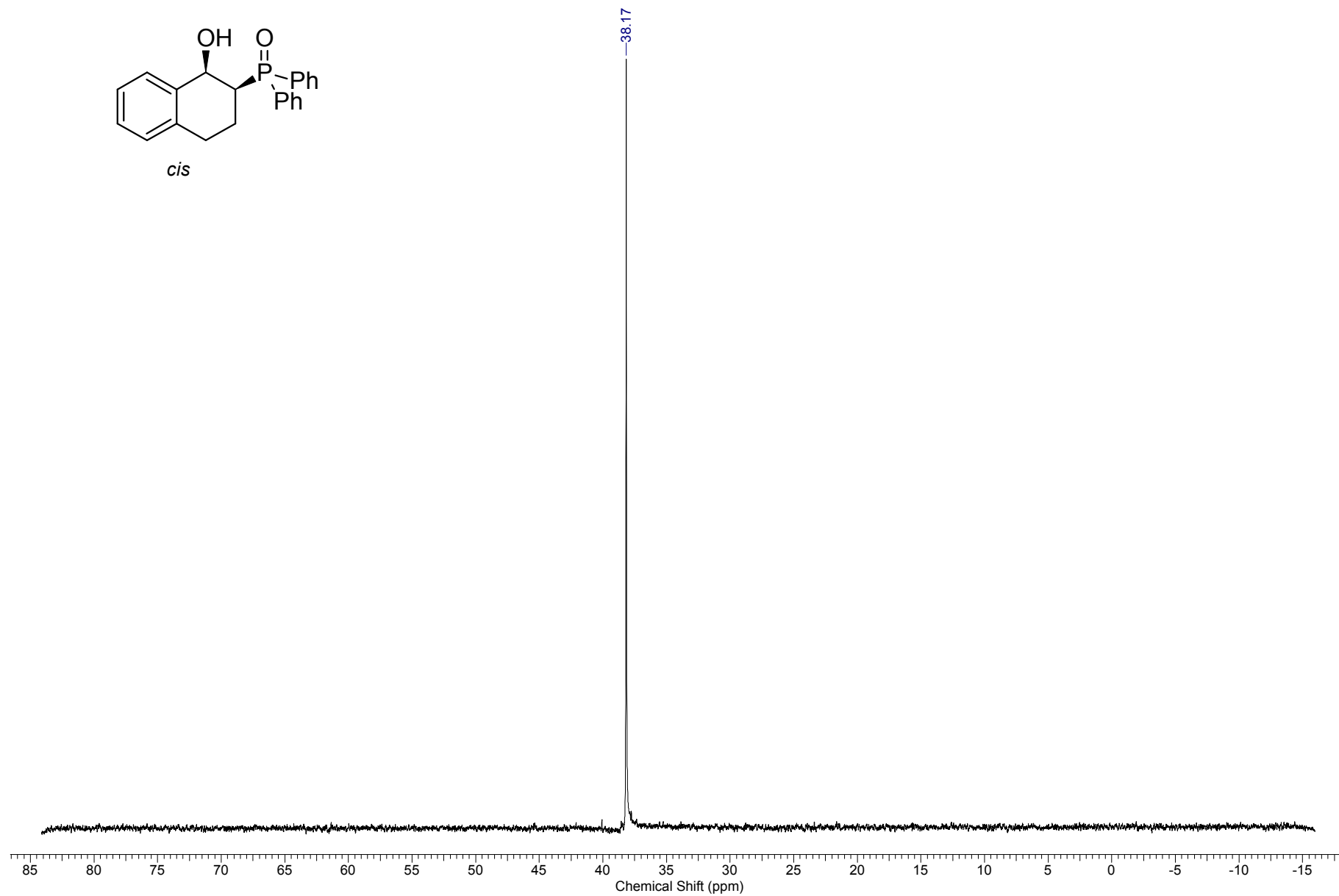
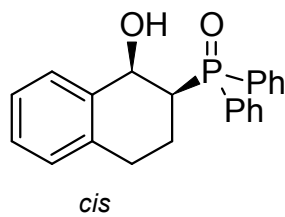


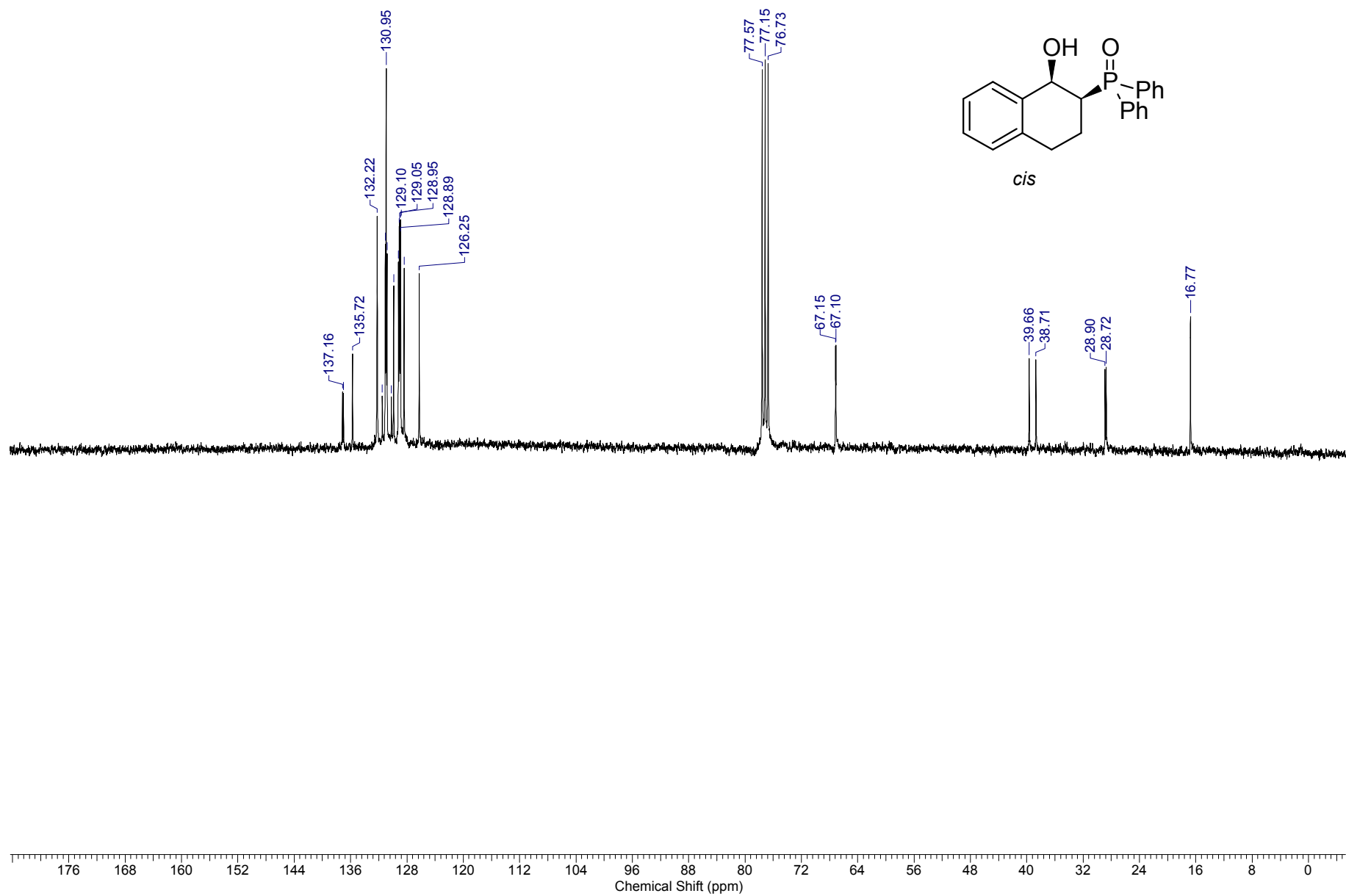


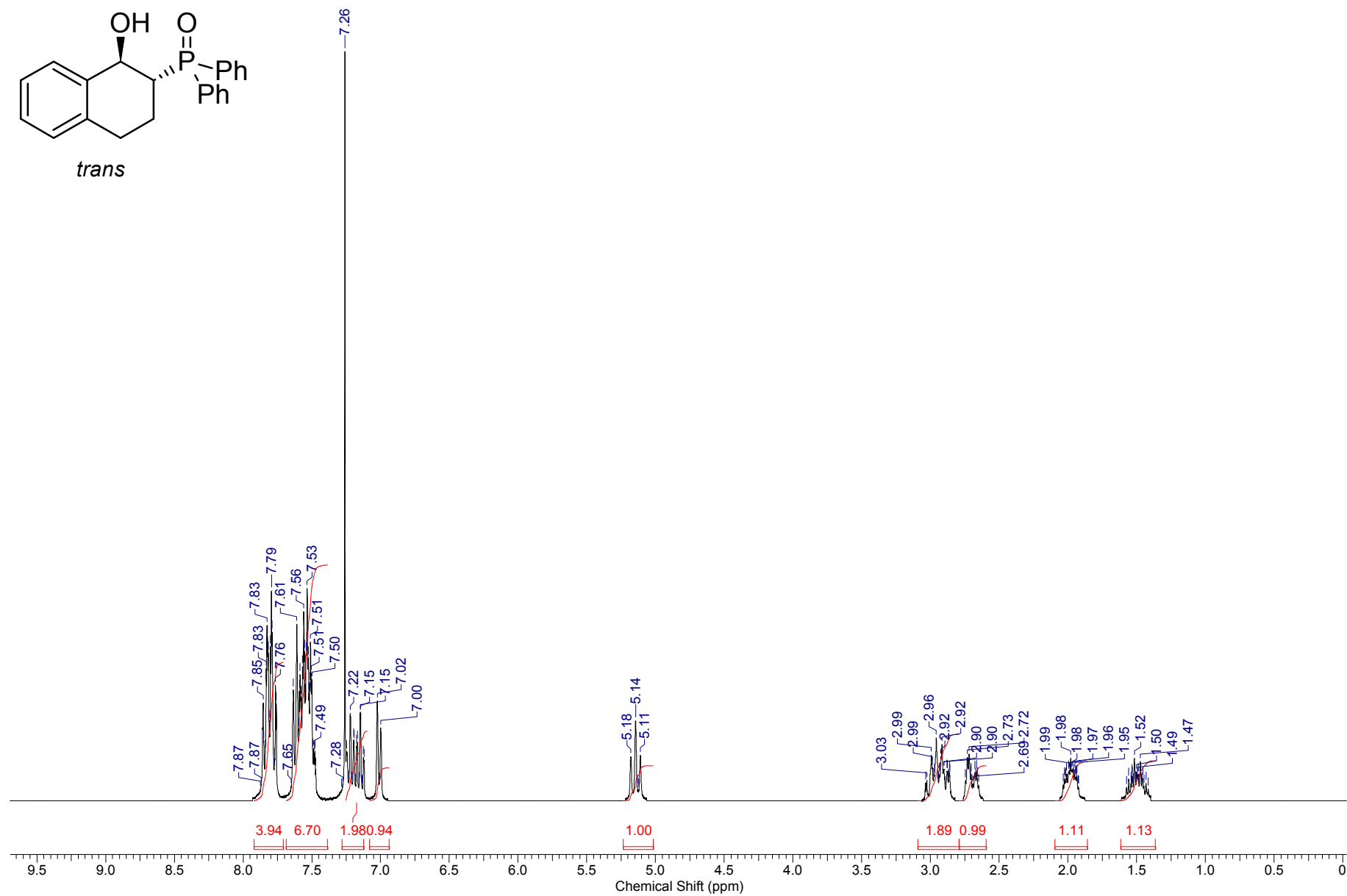
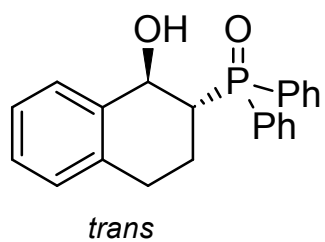
S30

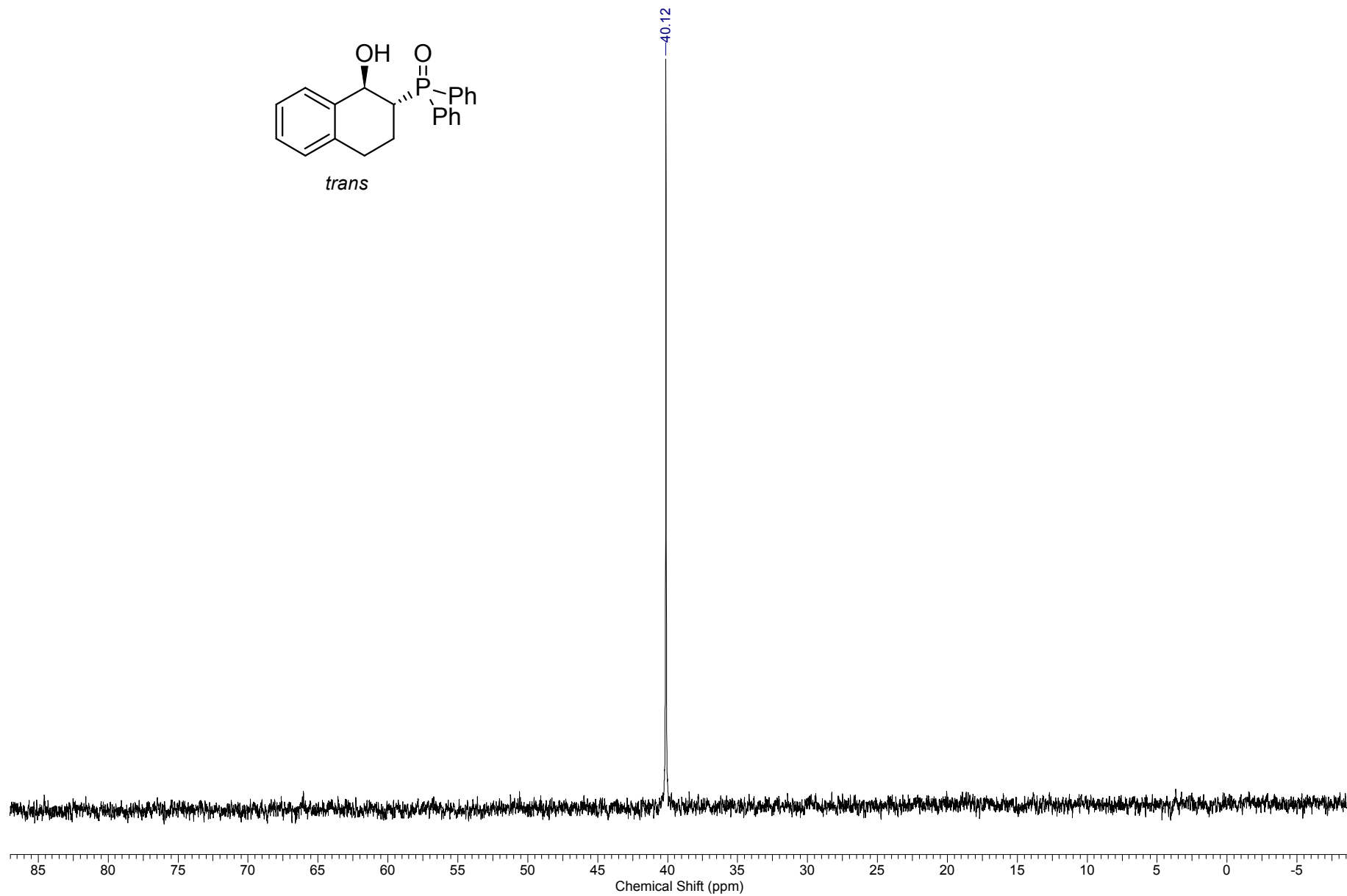
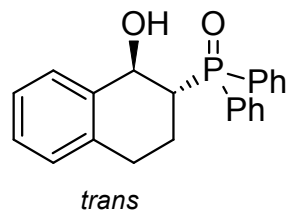




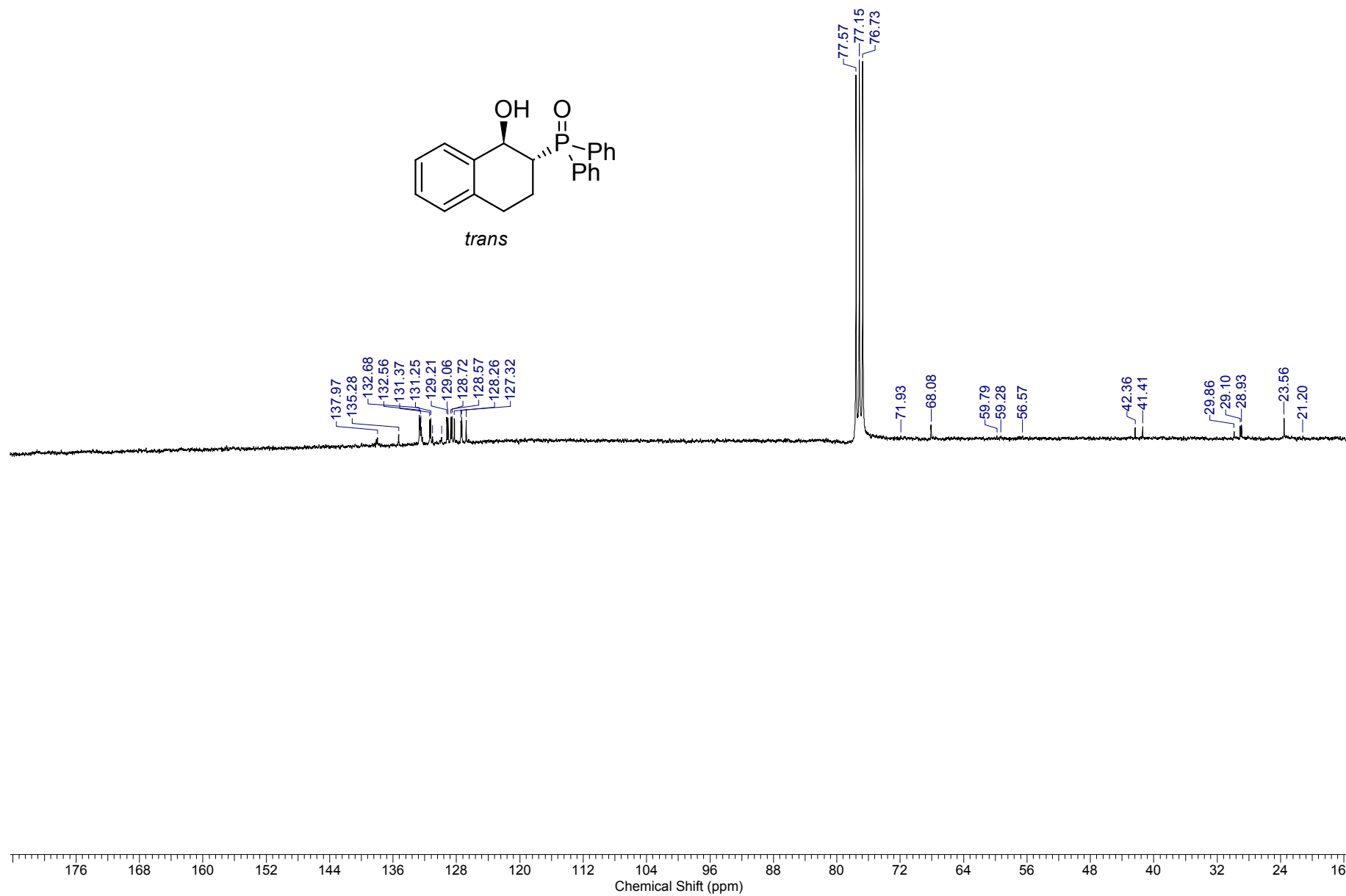
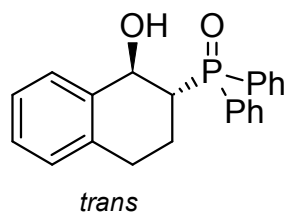


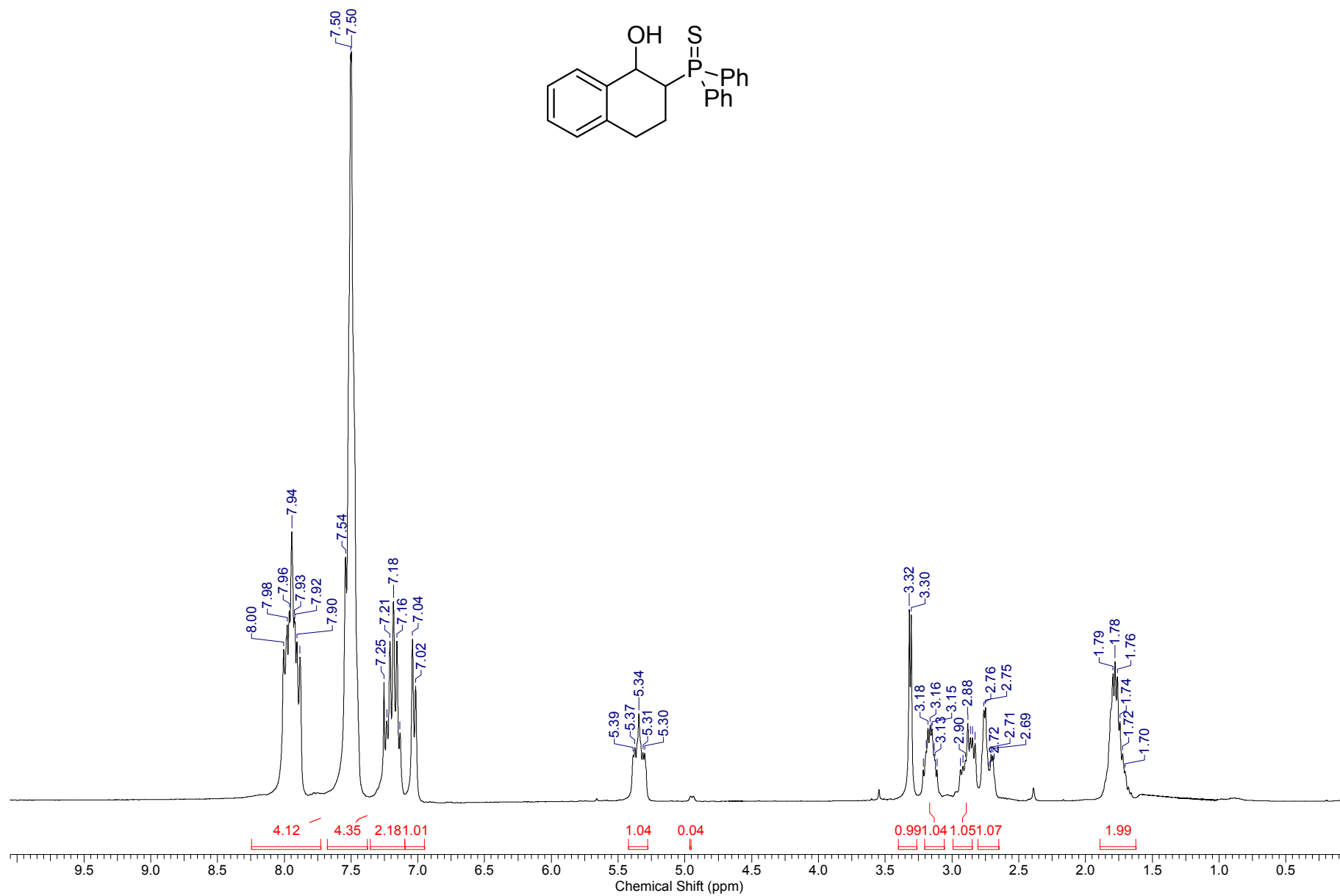
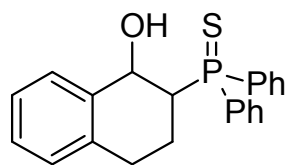


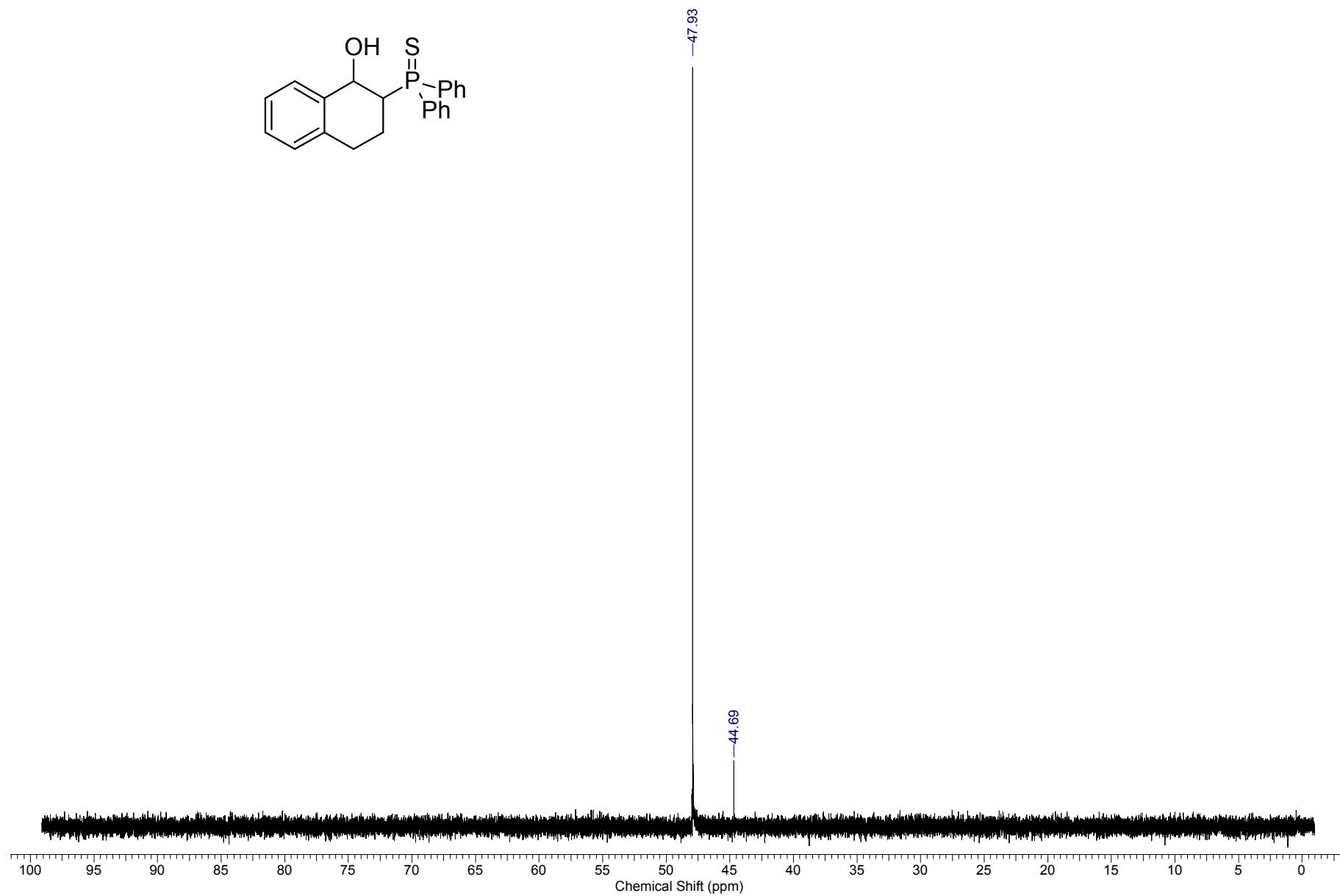
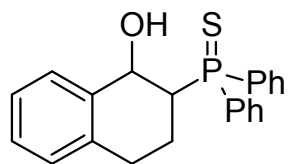




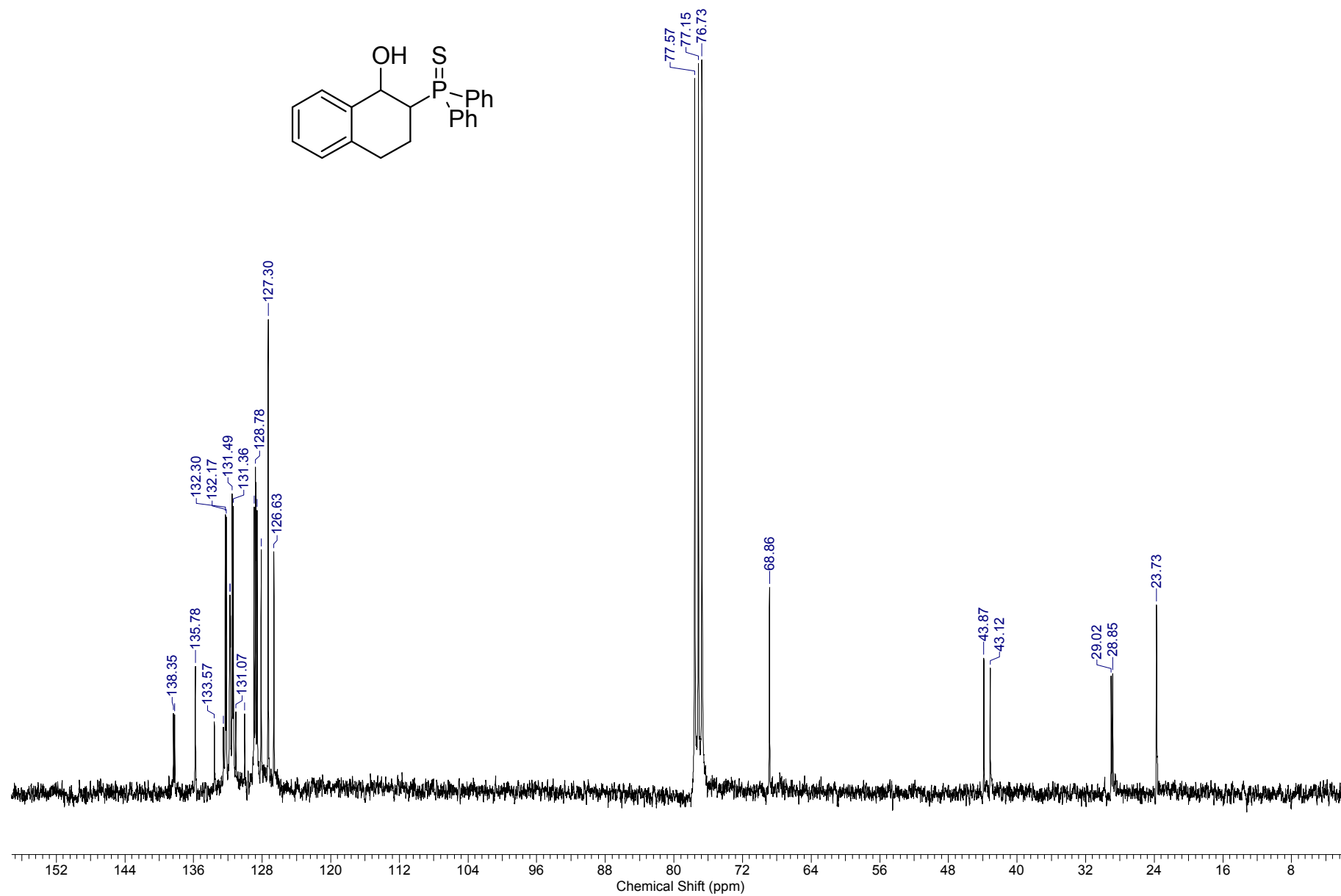
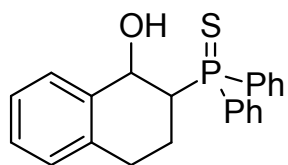
S36

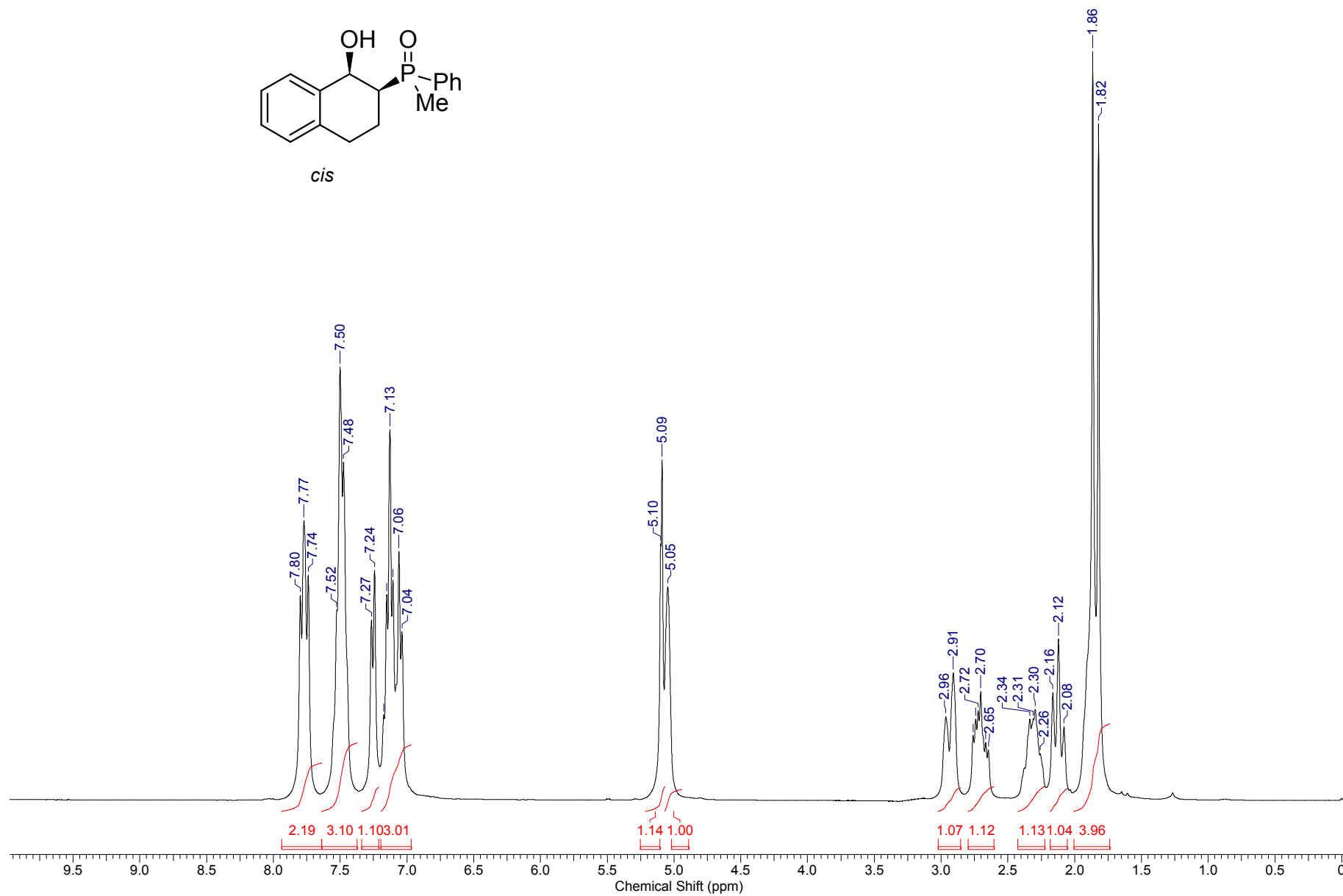
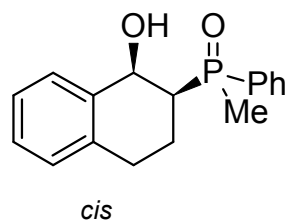


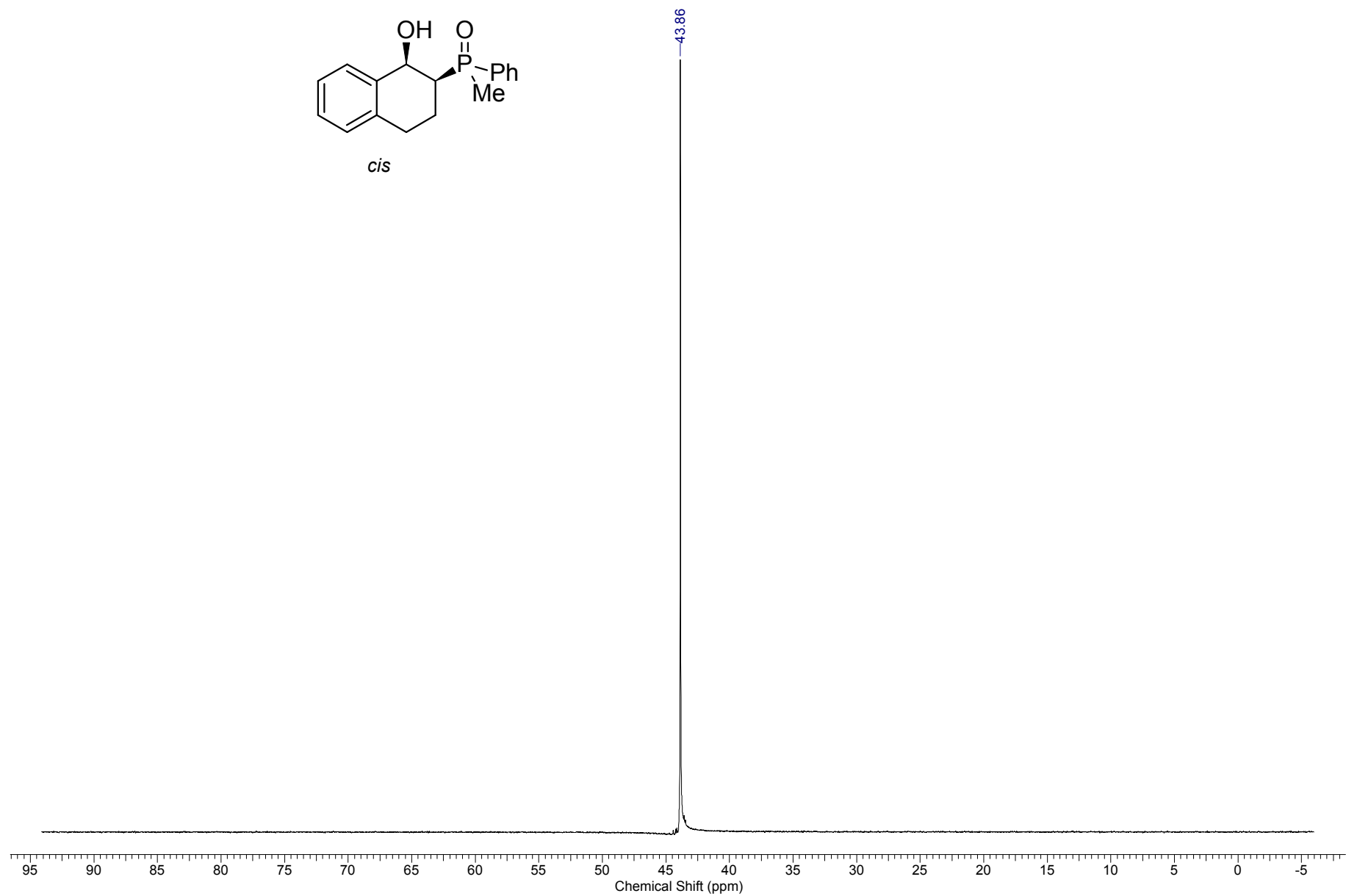
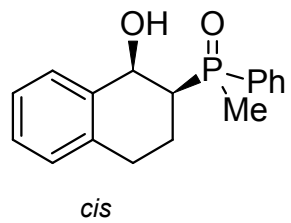




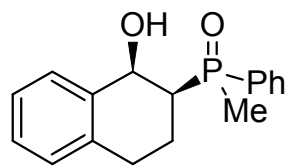
S39



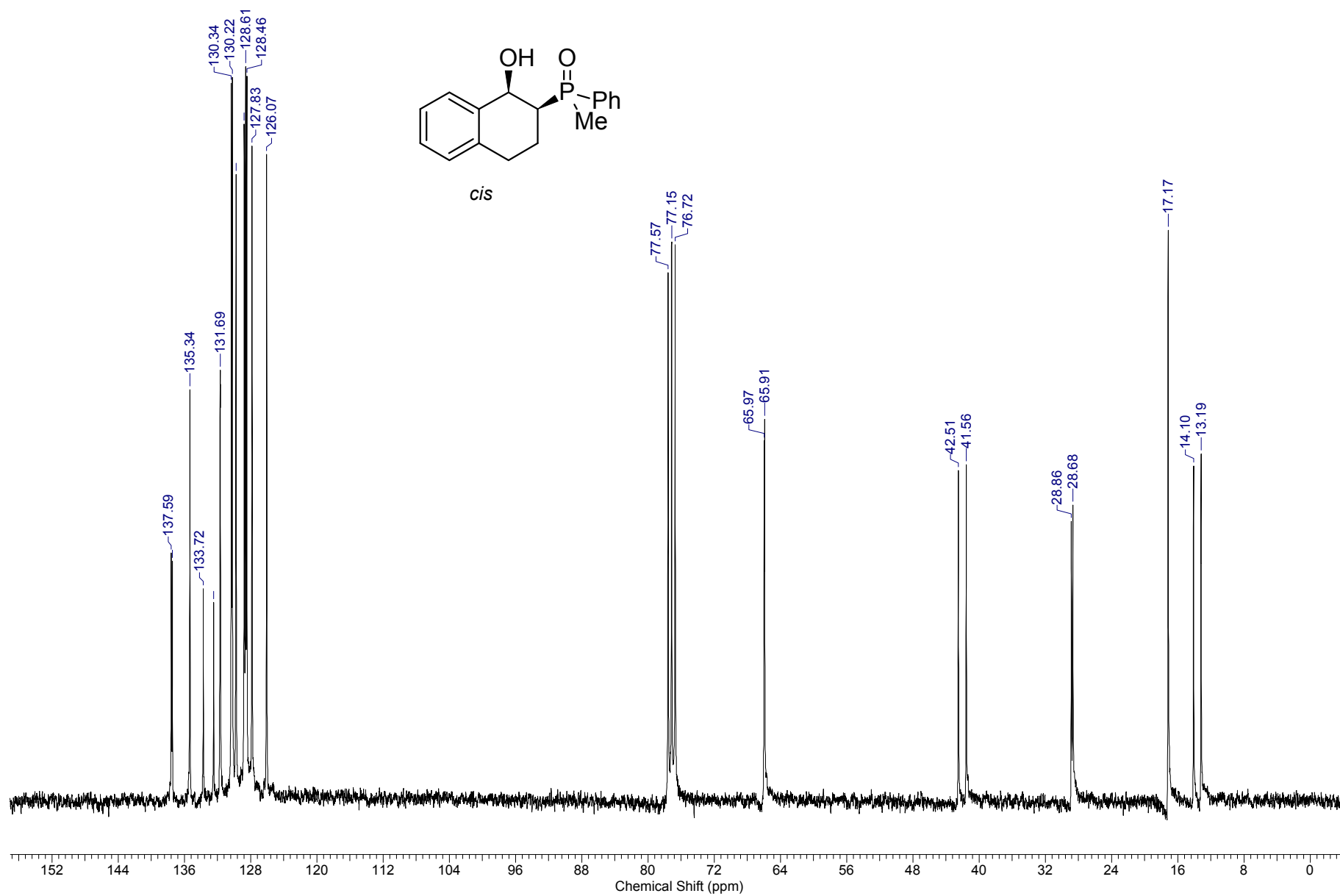


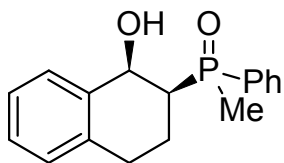


S42

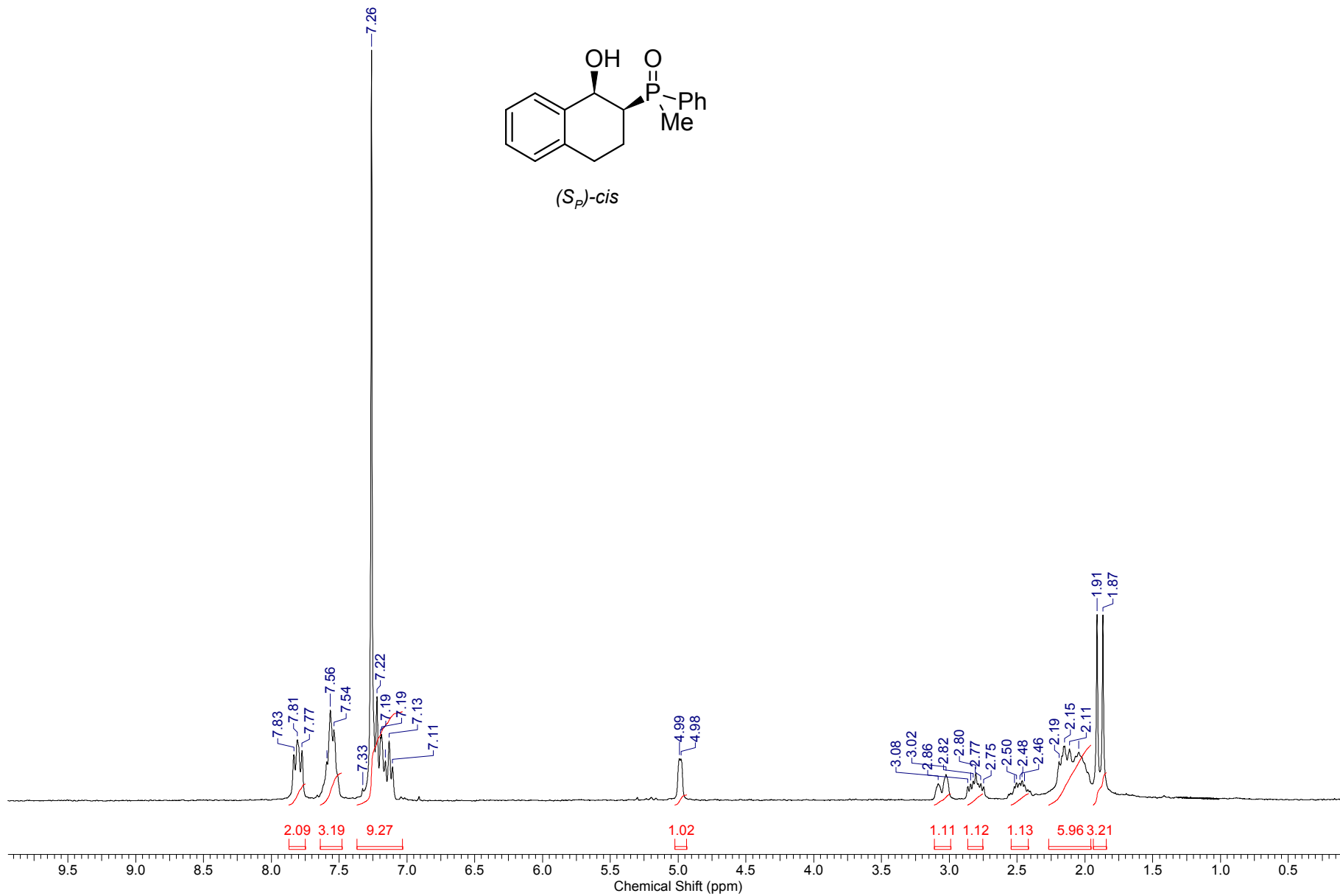


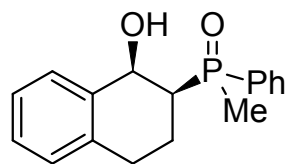
cis





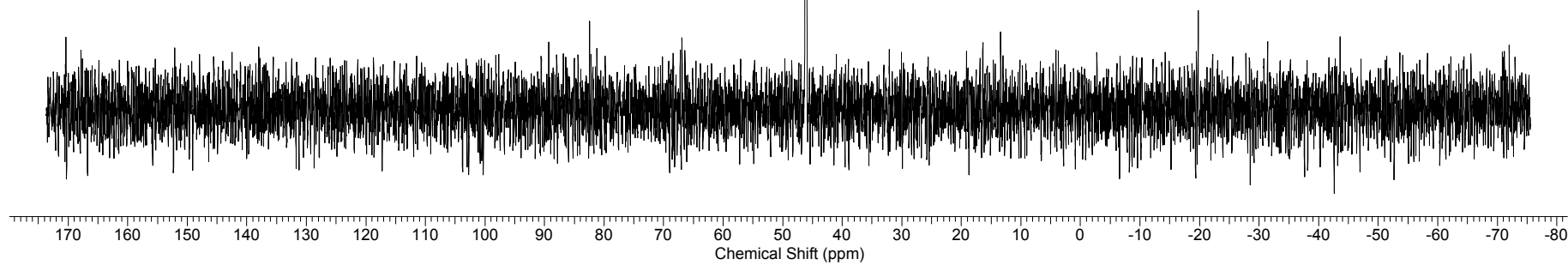
(S_P)-cis



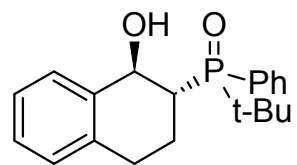


(S_P)-cis

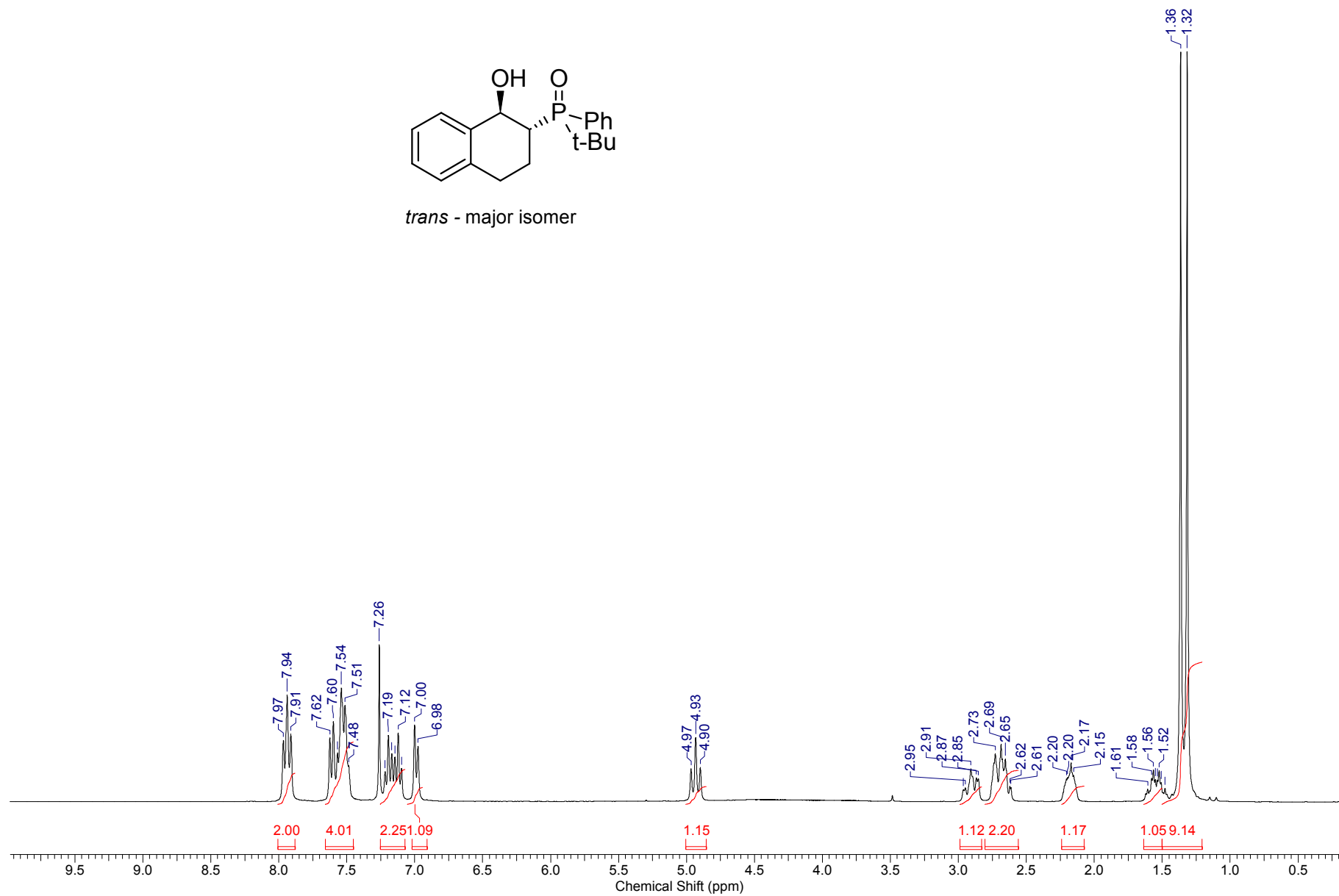
46.08

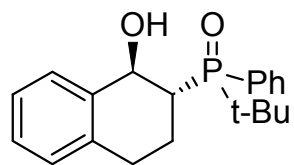


S45

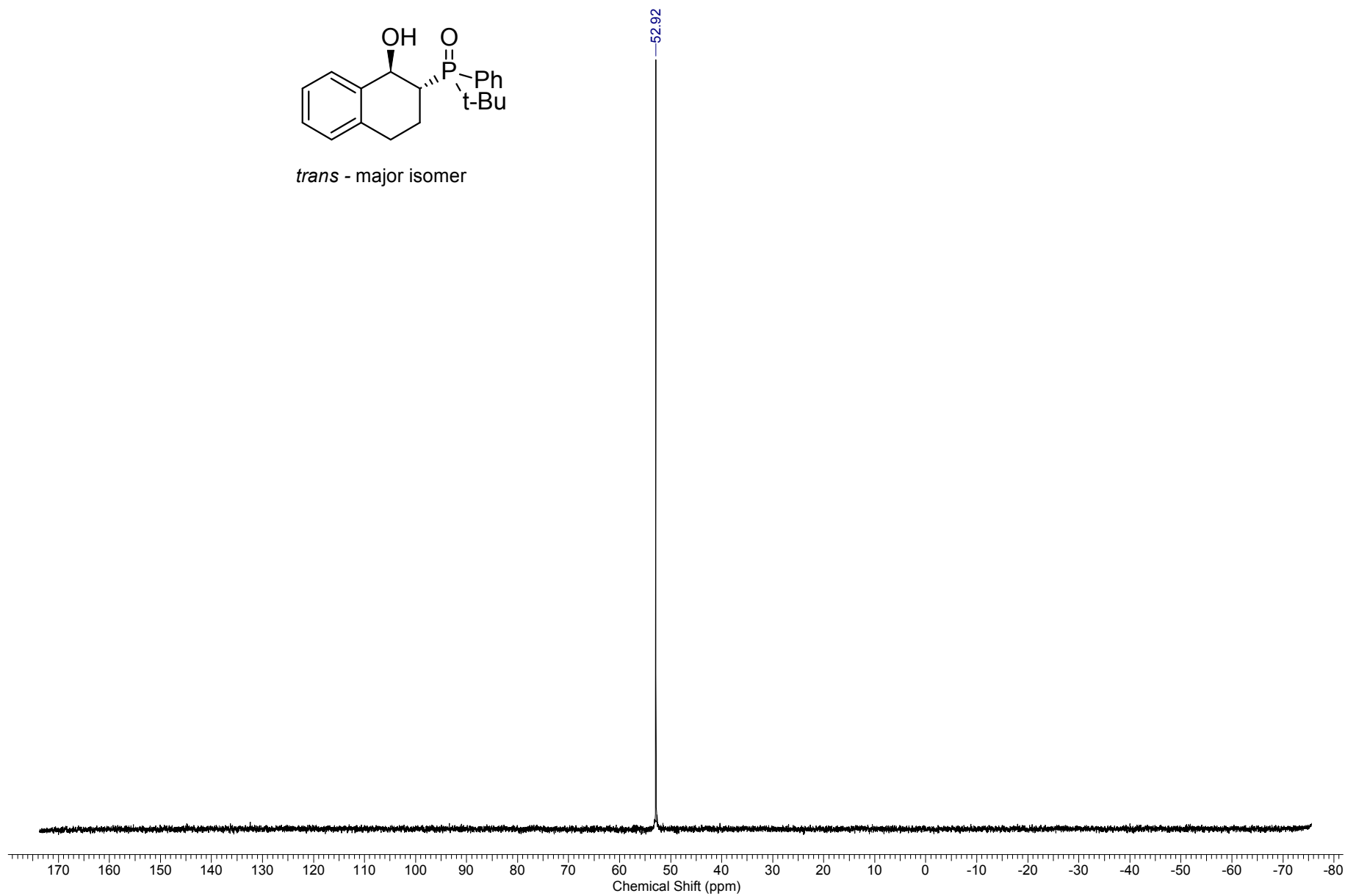


trans - major isomer

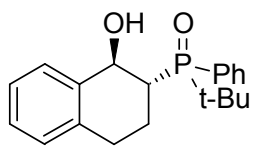




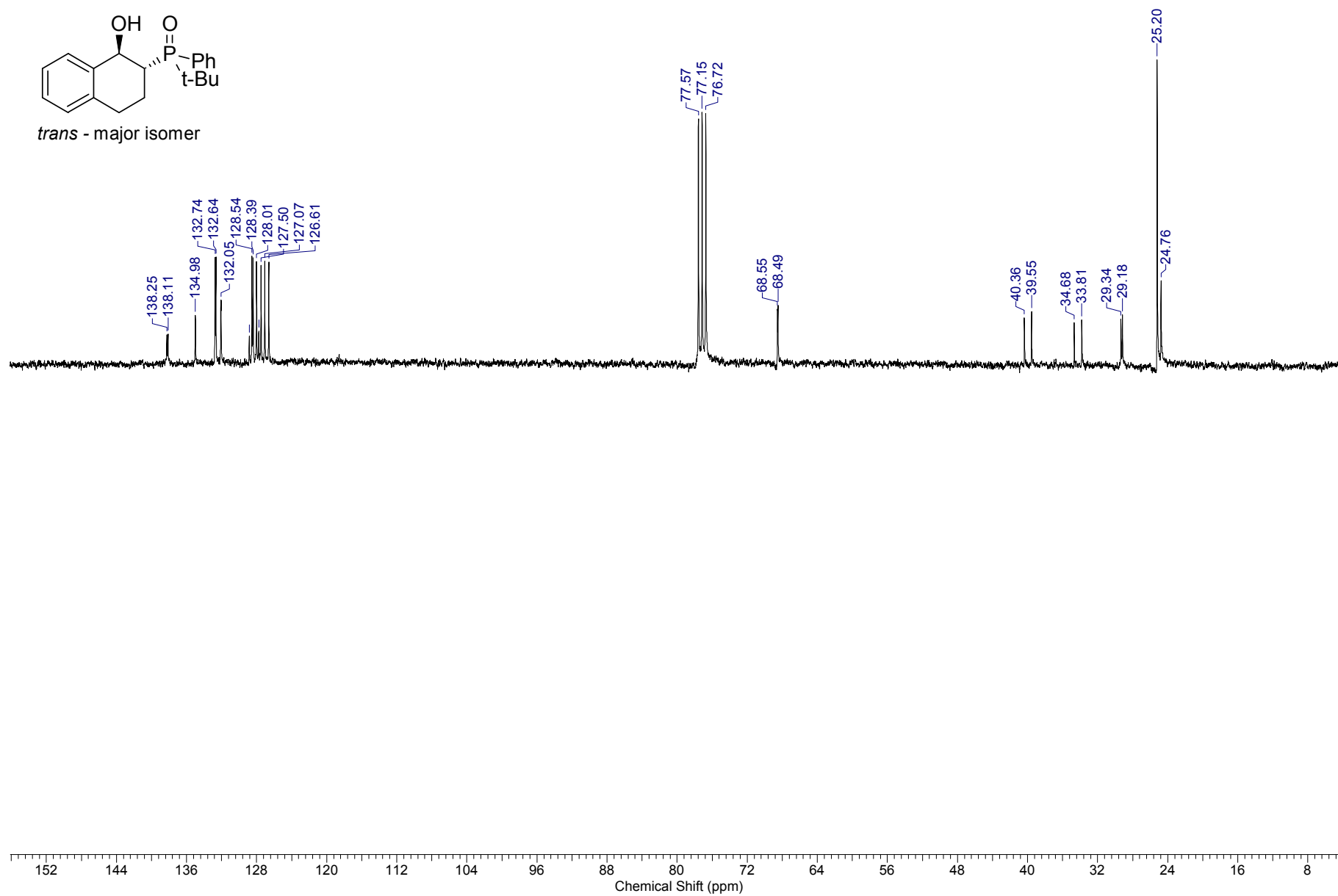
trans - major isomer

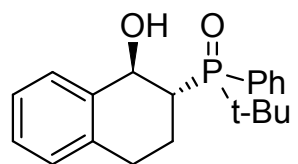


S47

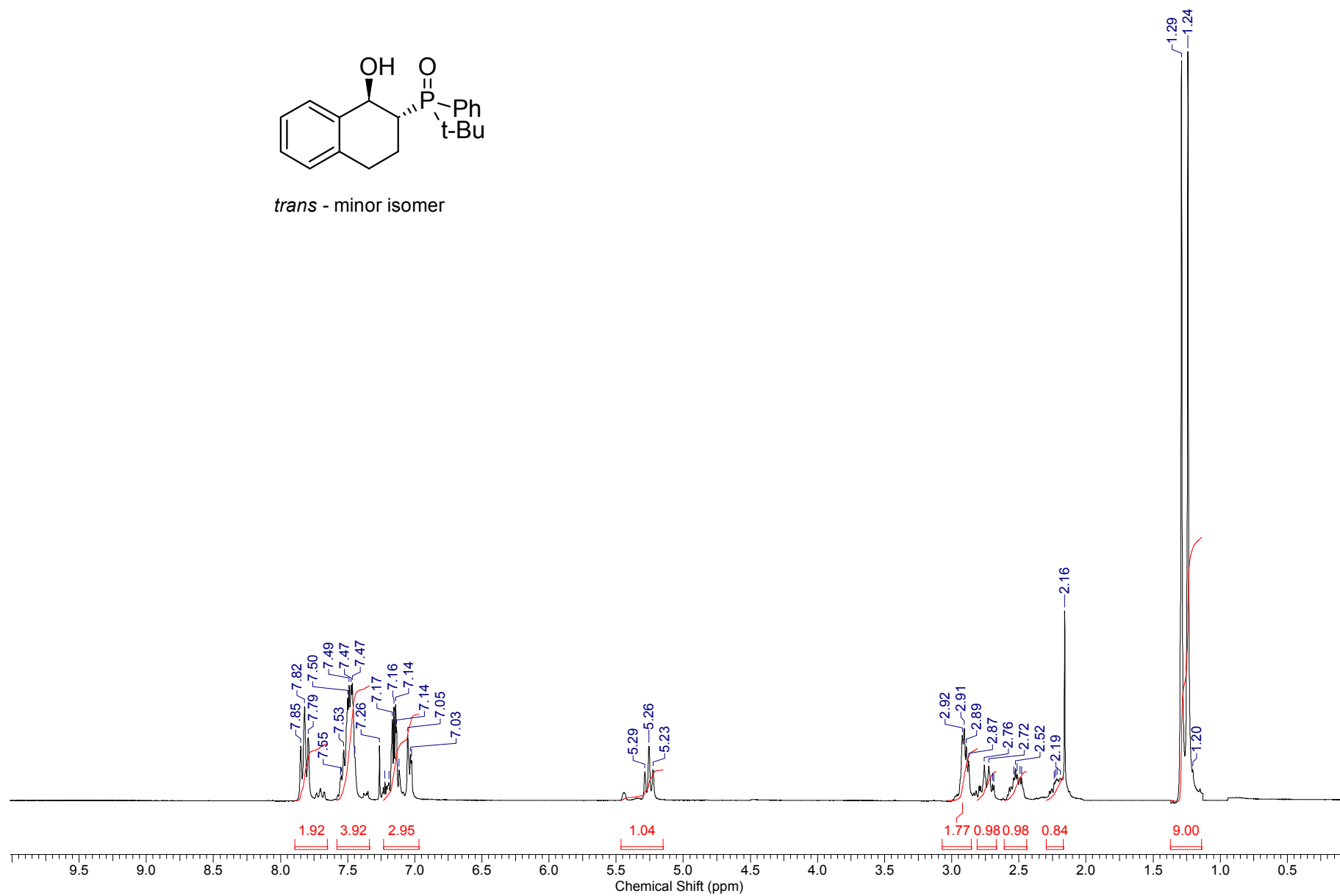


trans - major isomer

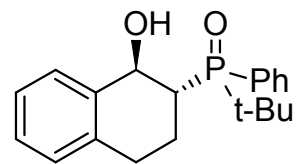




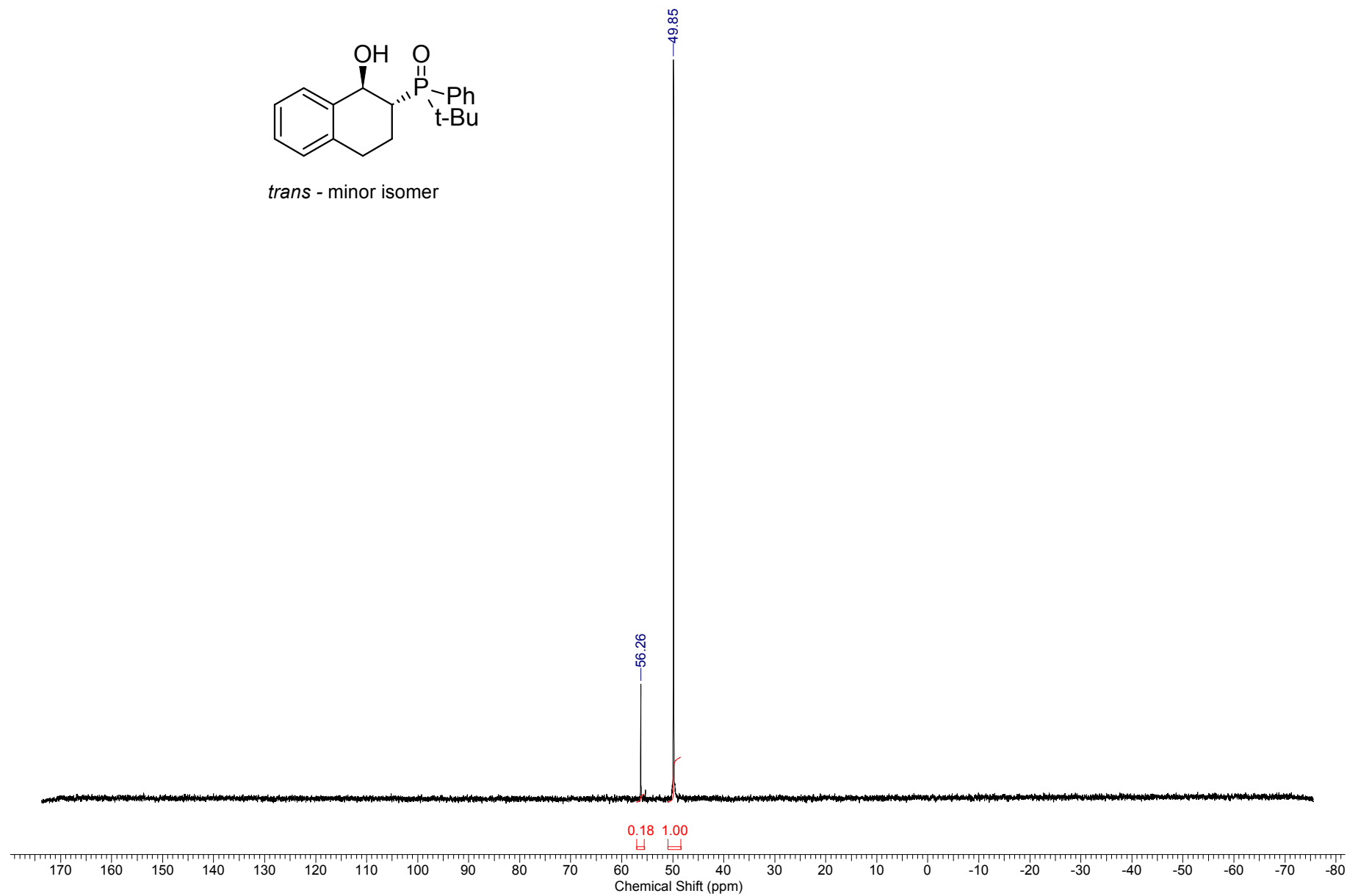
trans - minor isomer



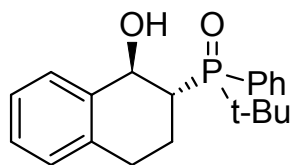
C



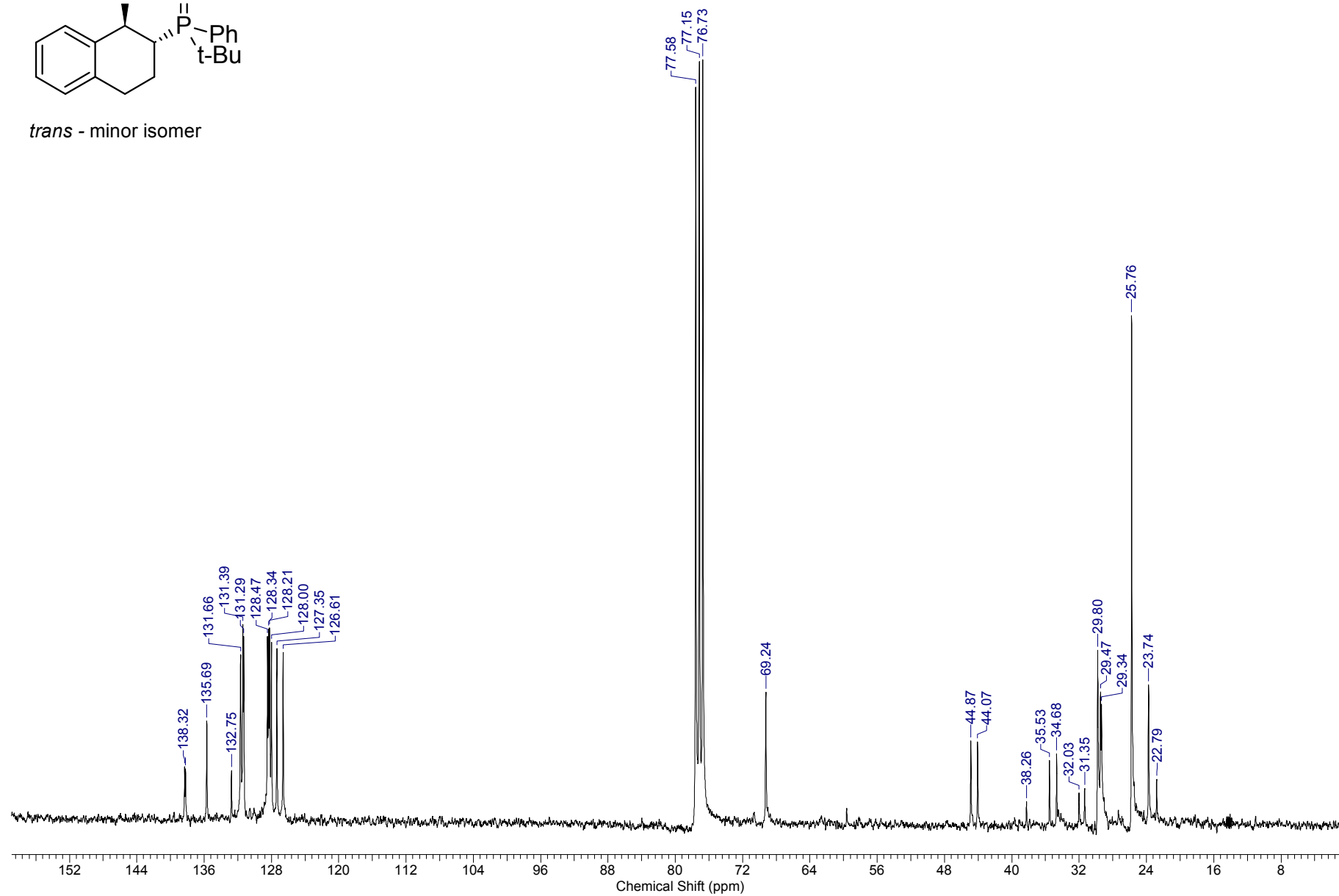
trans - minor isomer

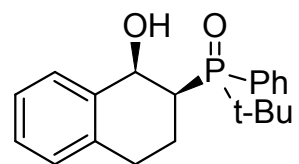


S50

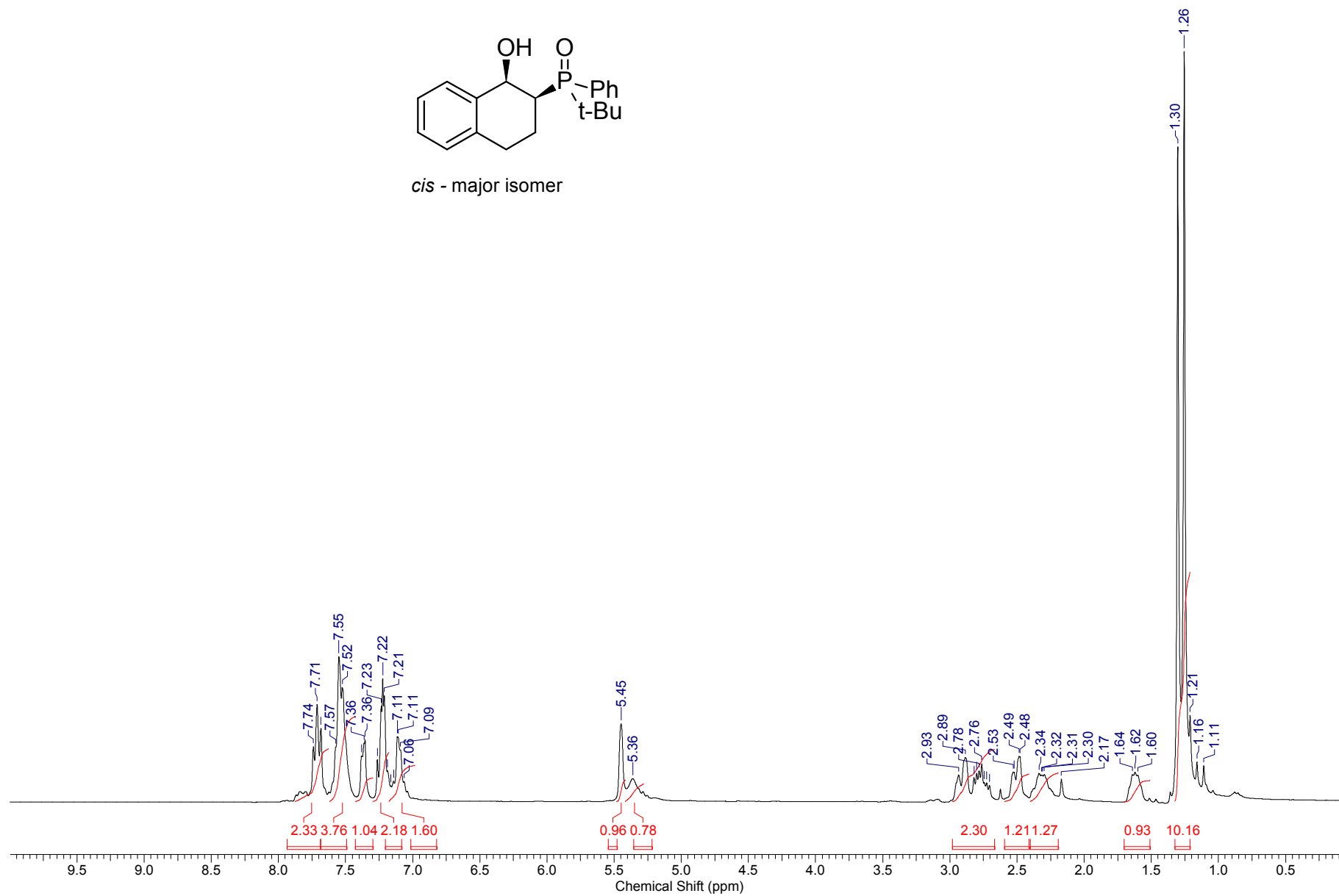


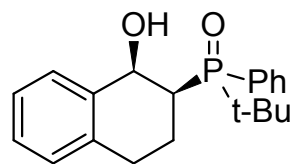
trans - minor isomer



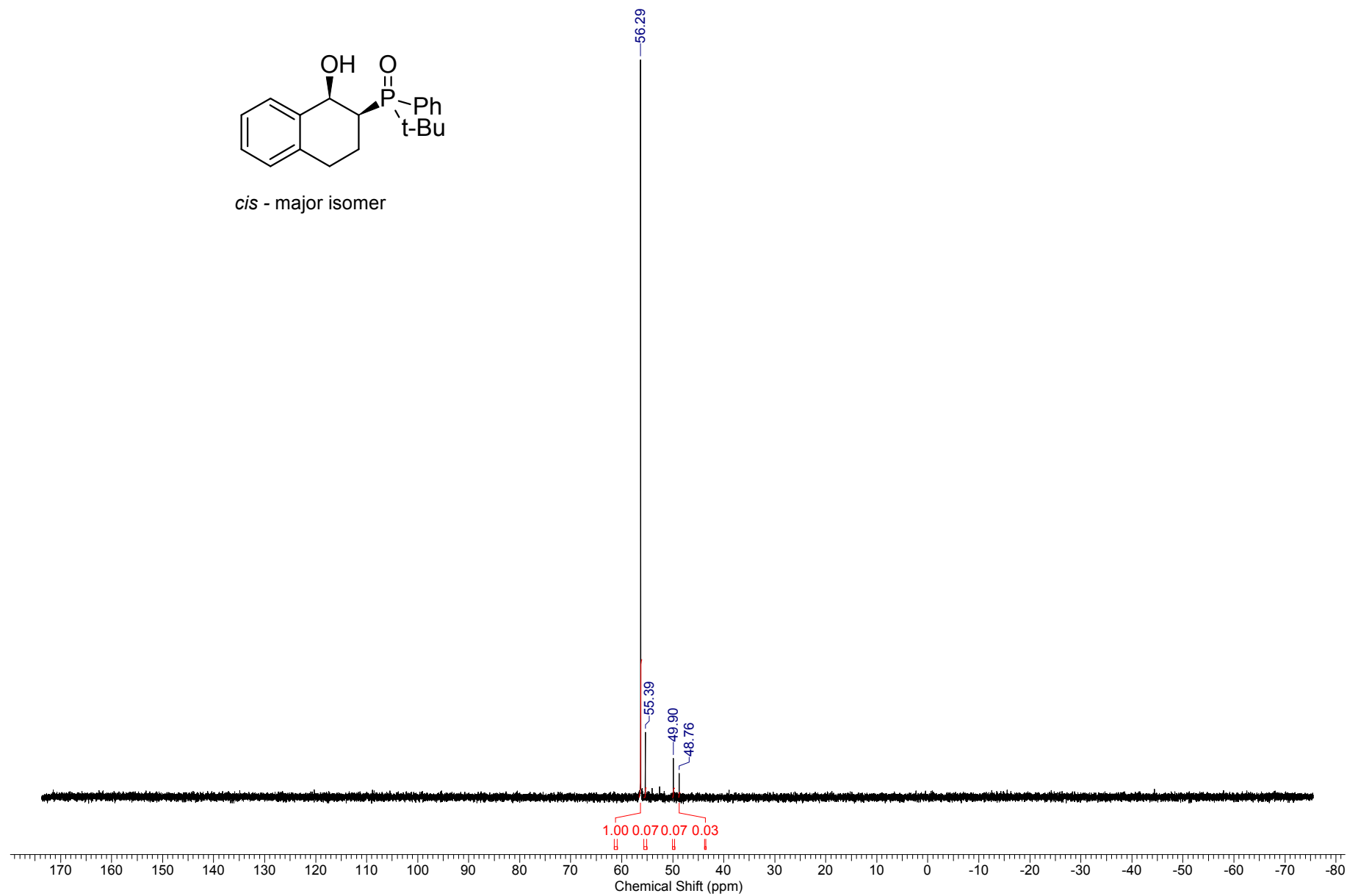


cis - major isomer

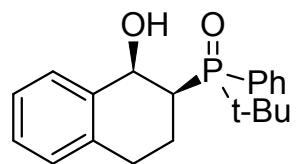




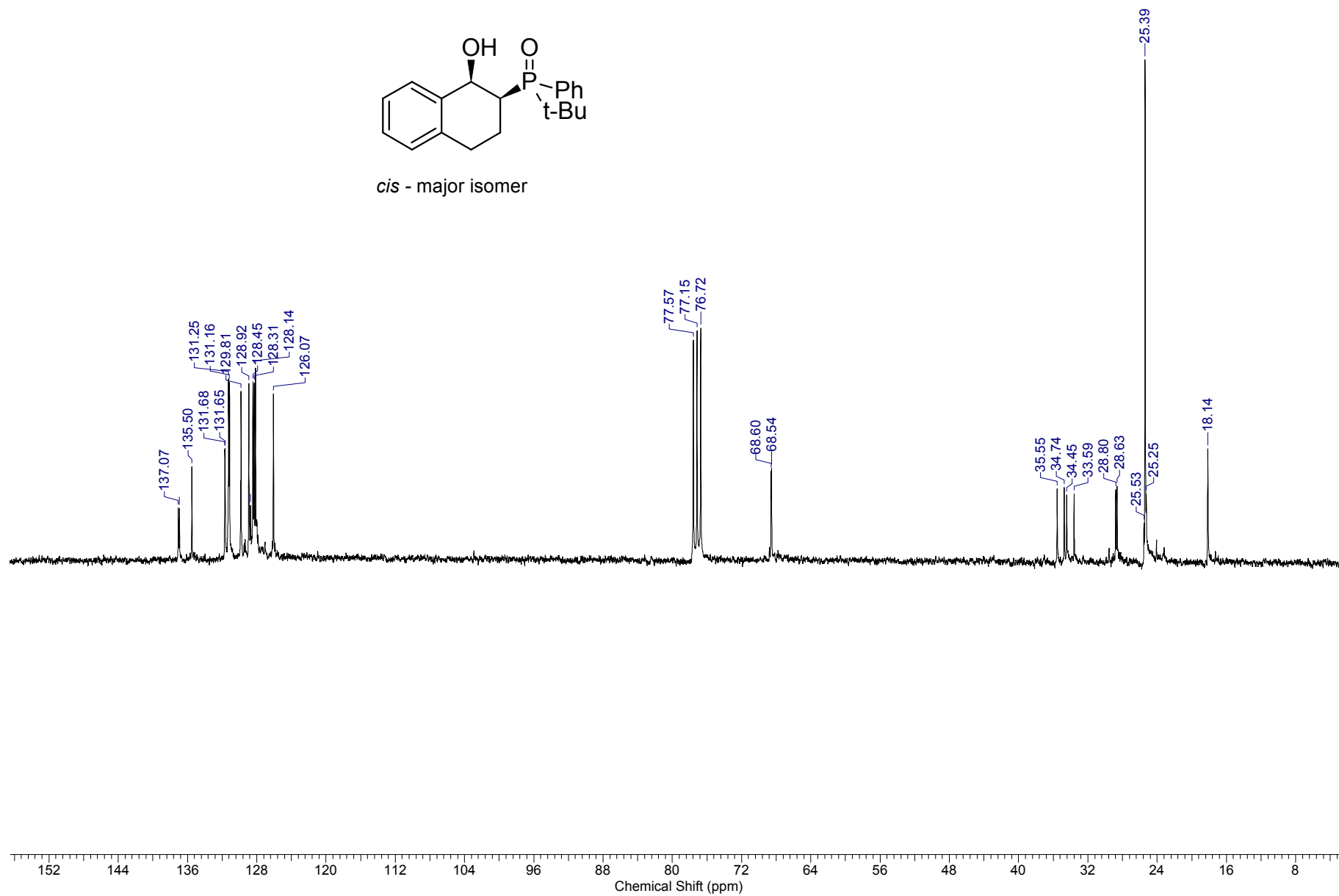
cis - major isomer

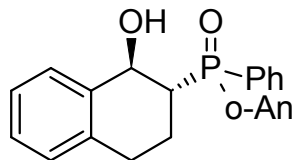


S53

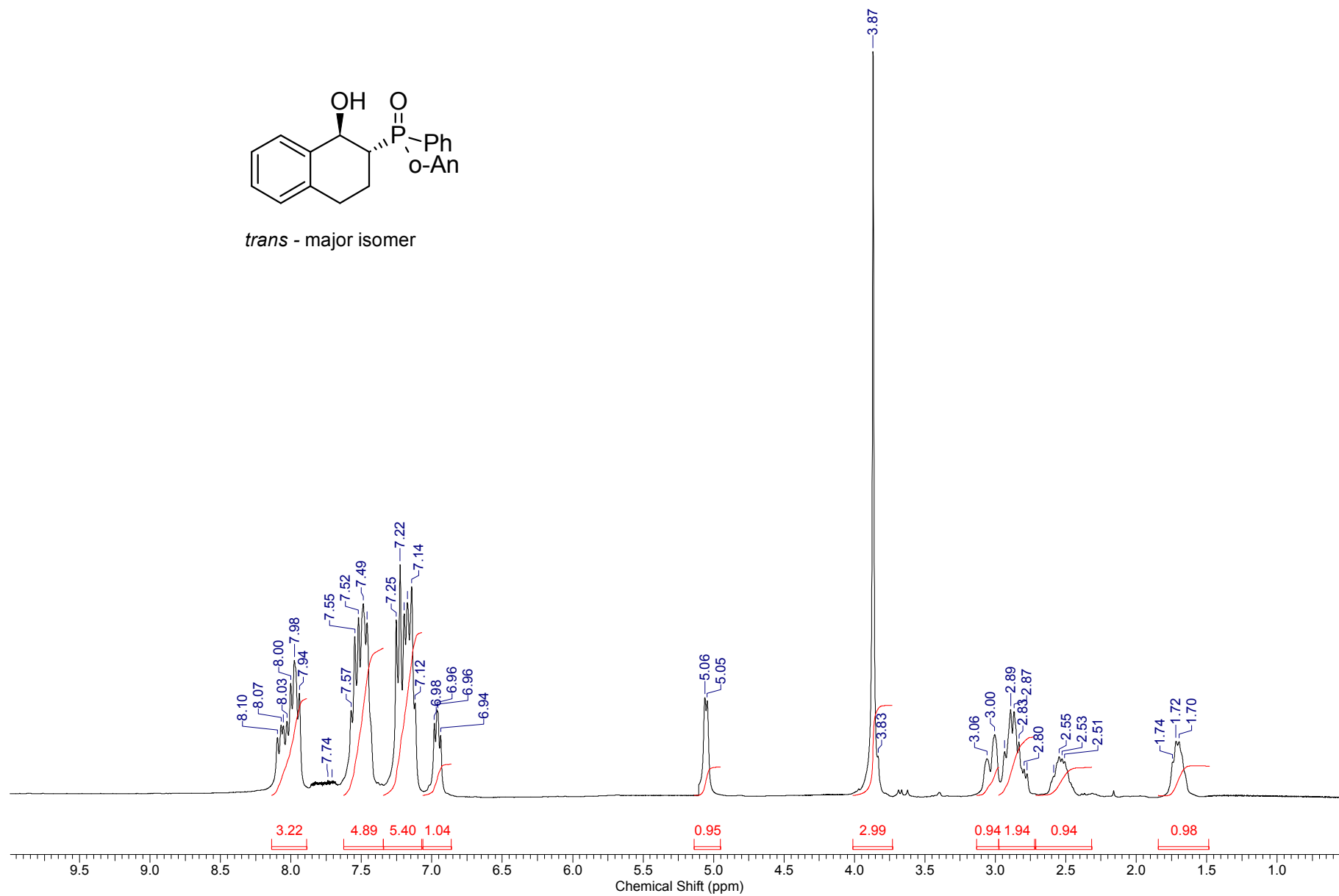


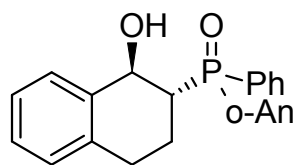
cis - major isomer



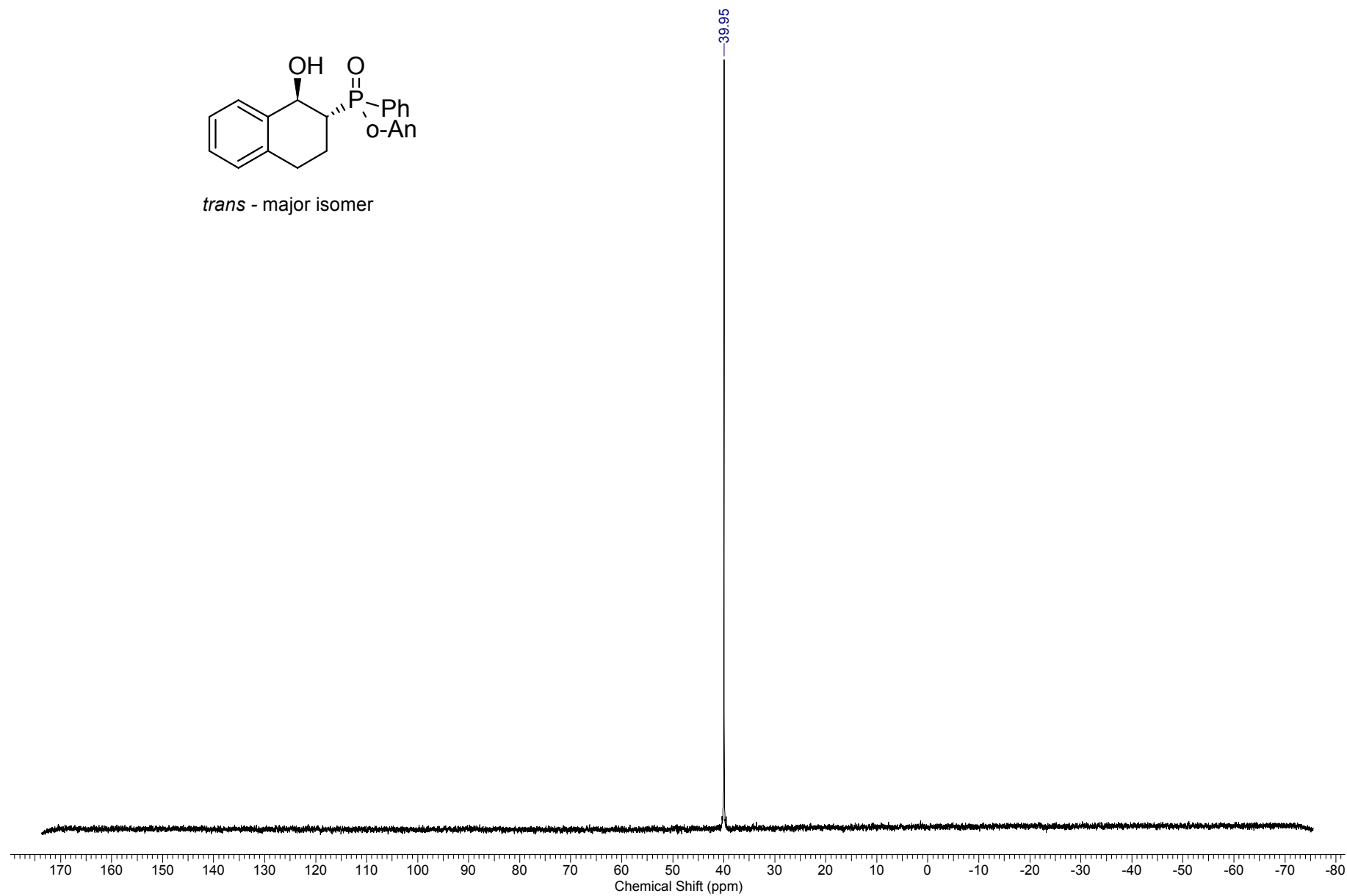


trans - major isomer

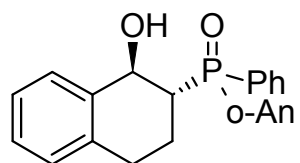




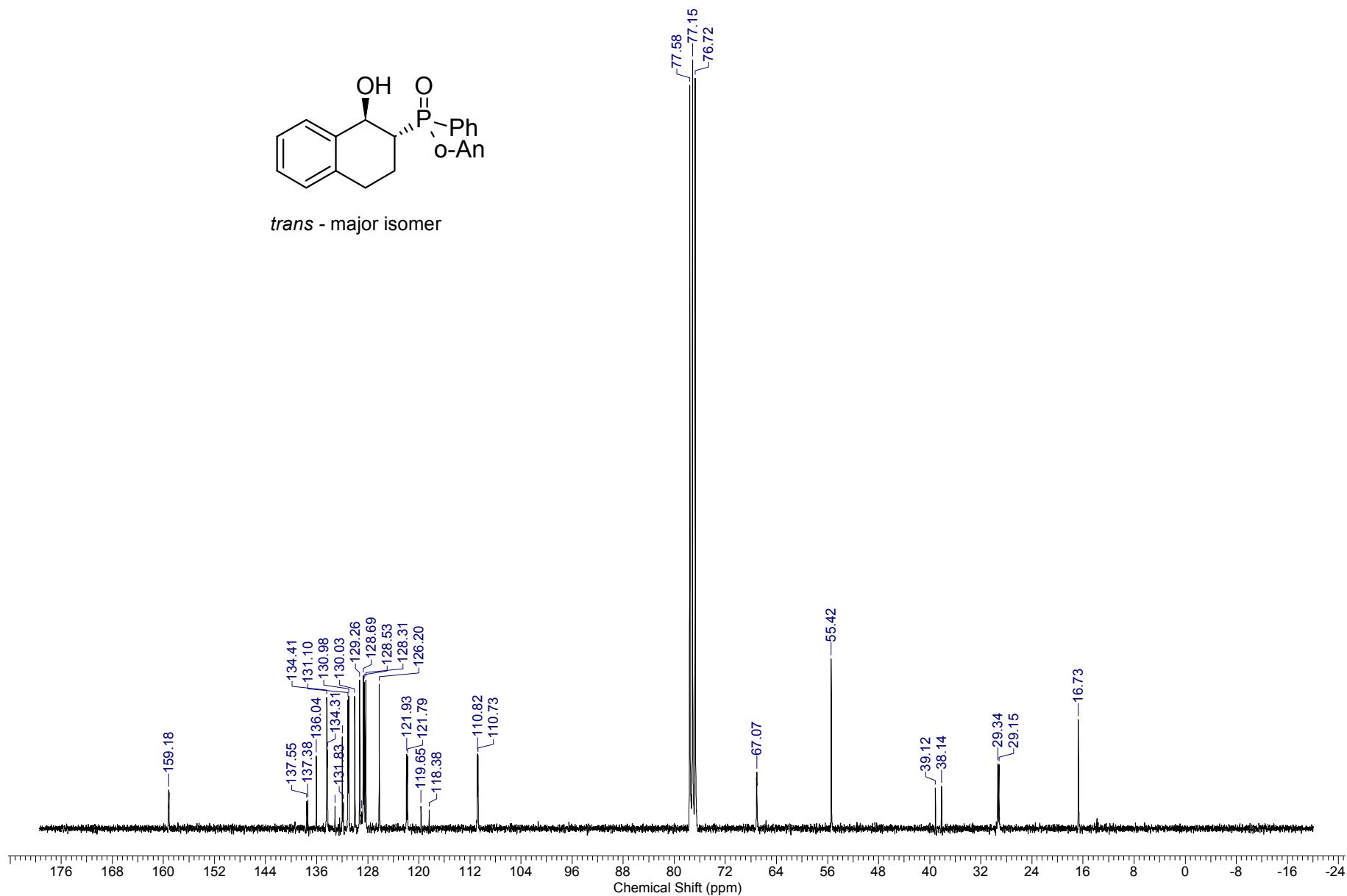
trans - major isomer

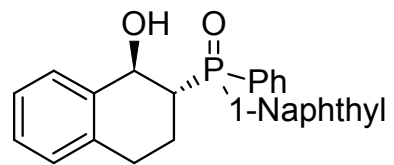


S56

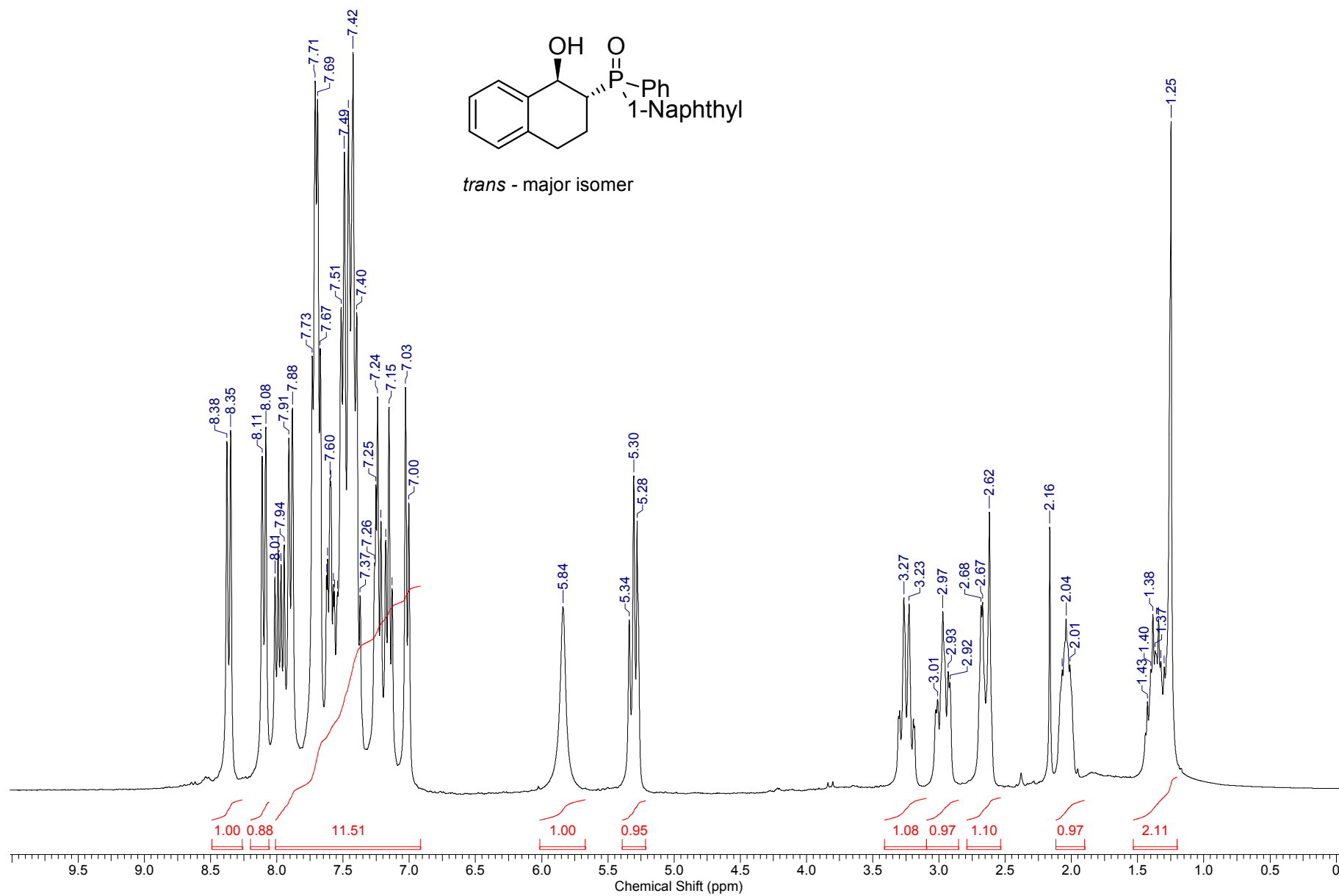


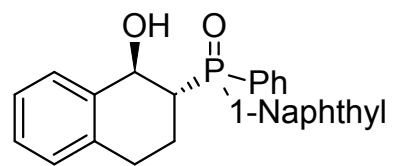
trans - major isomer



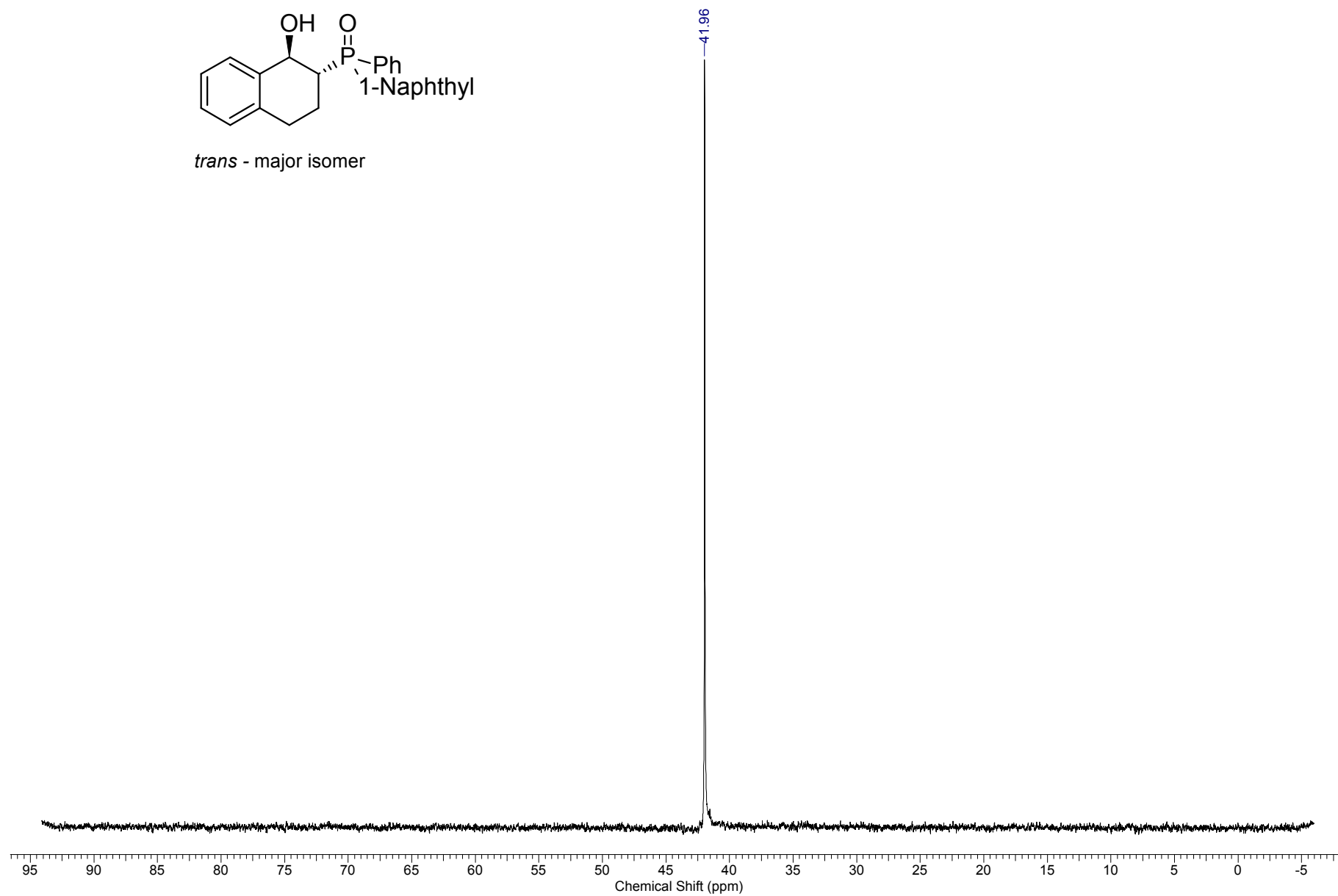


trans - major isomer

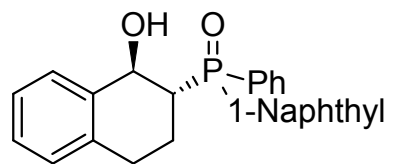




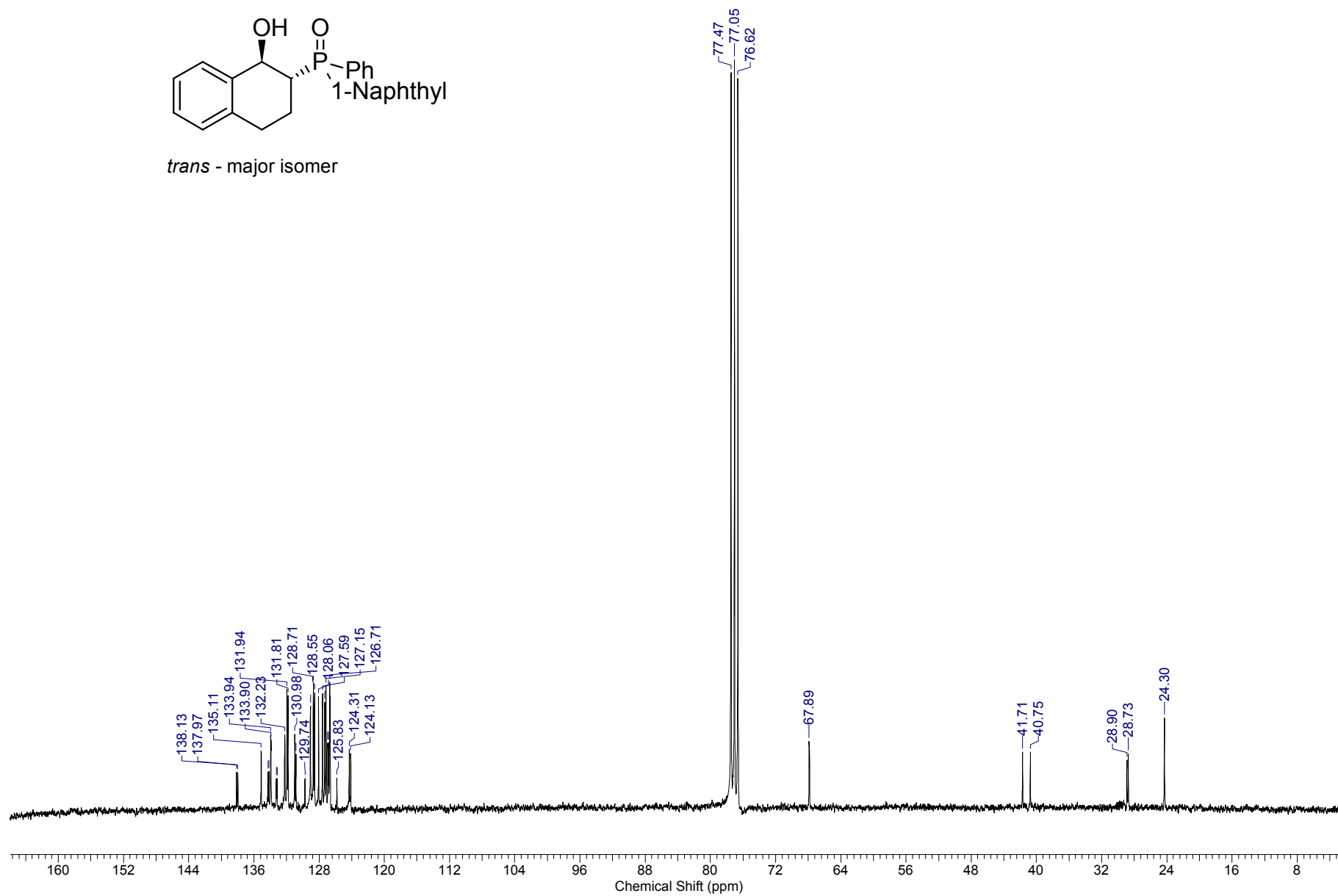
trans - major isomer

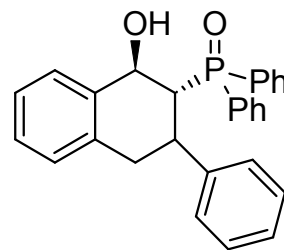


S59

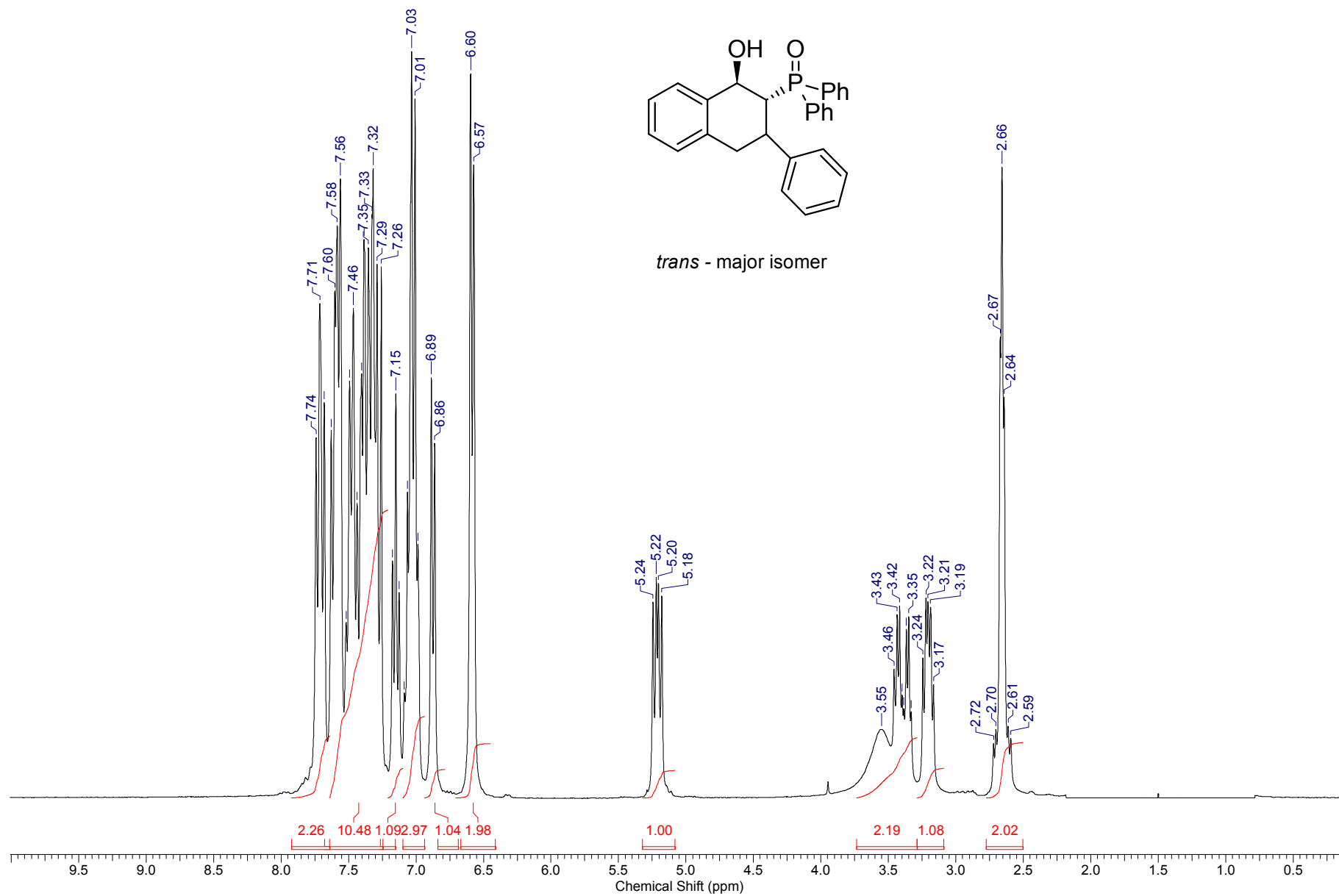


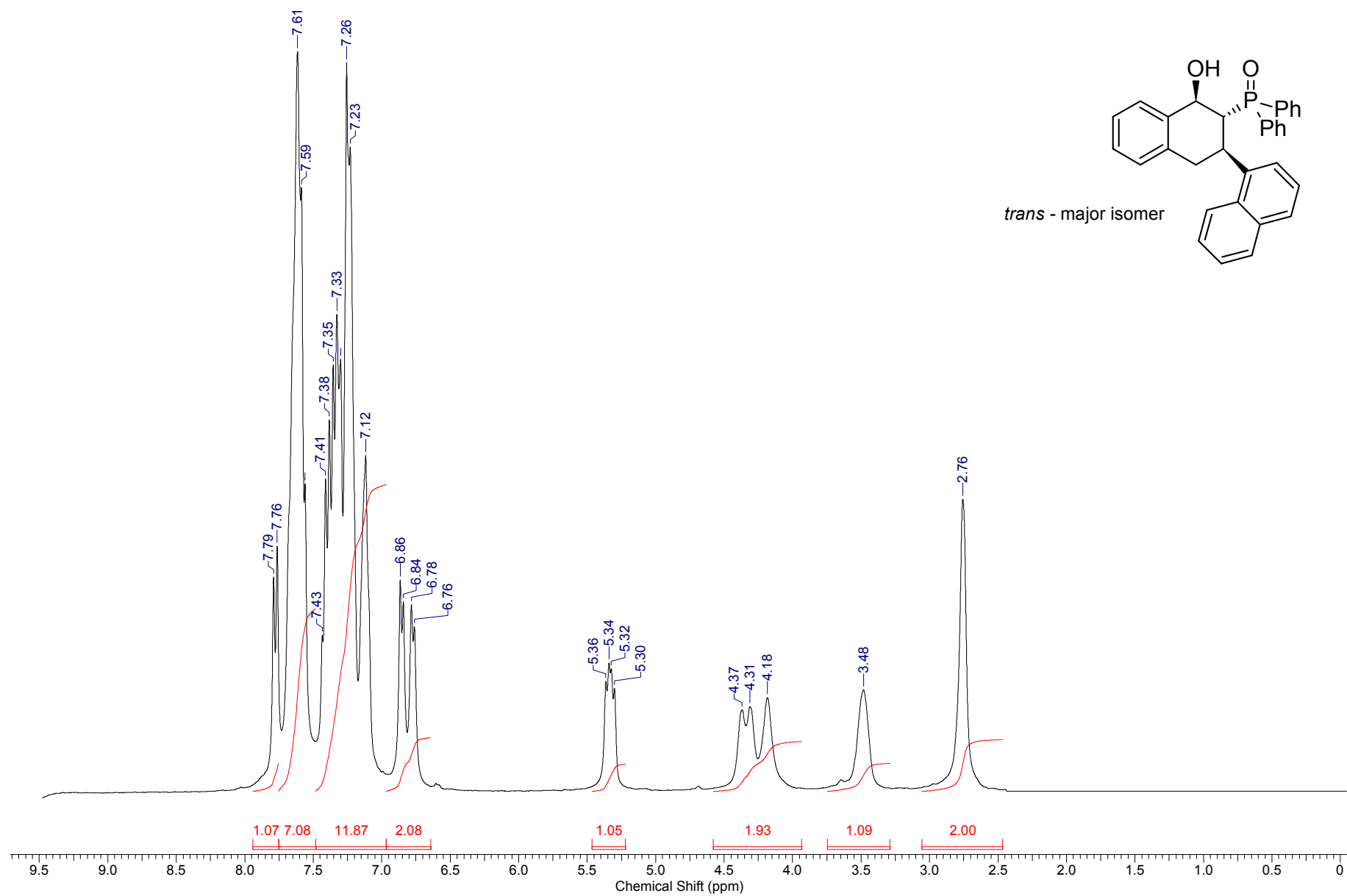
trans - major isomer

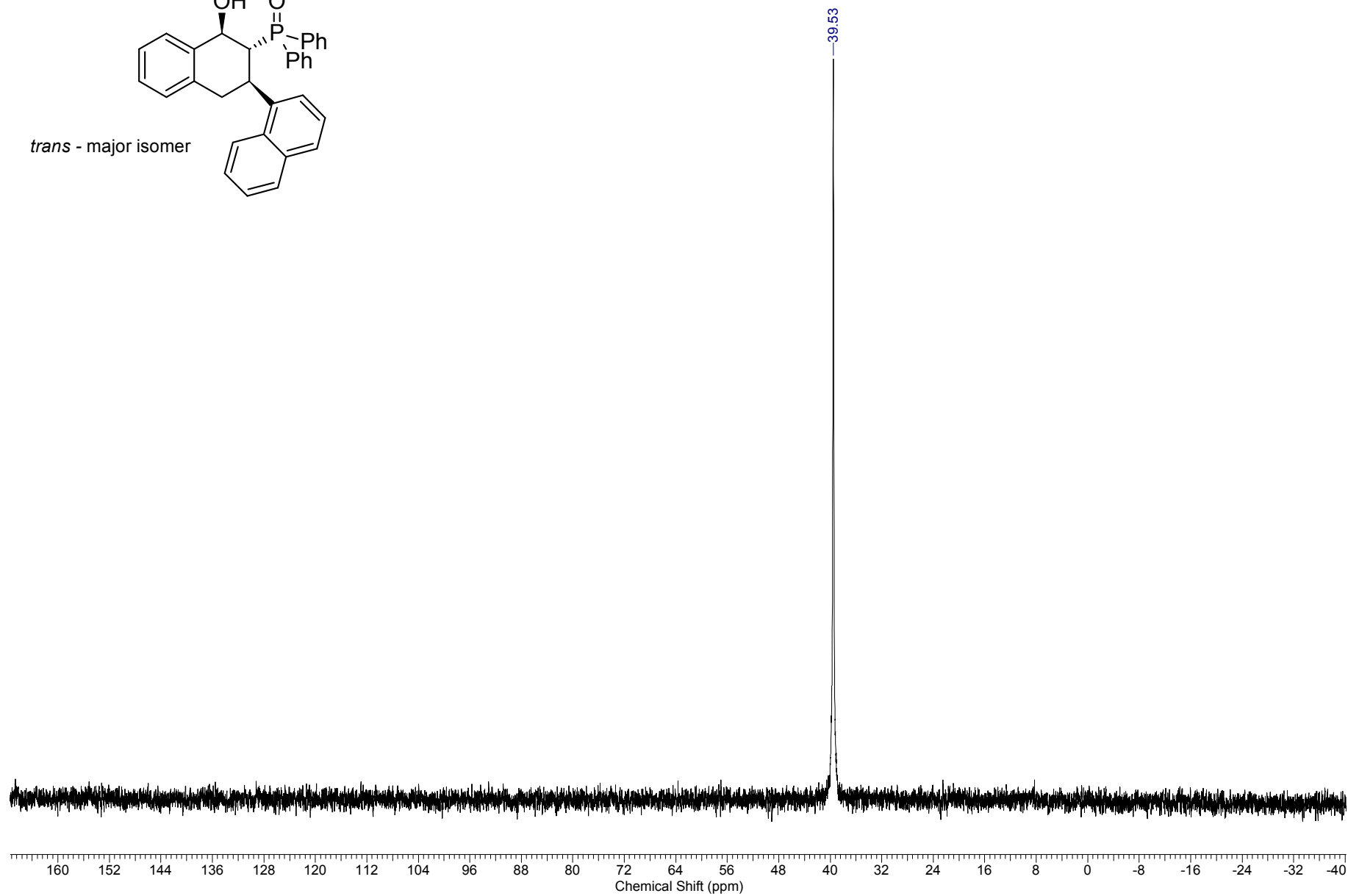
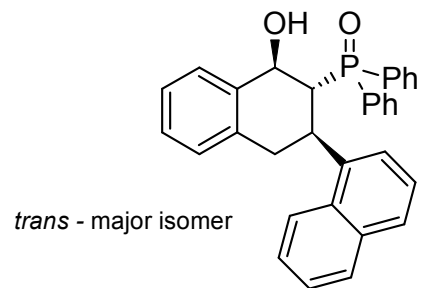




trans - major isomer

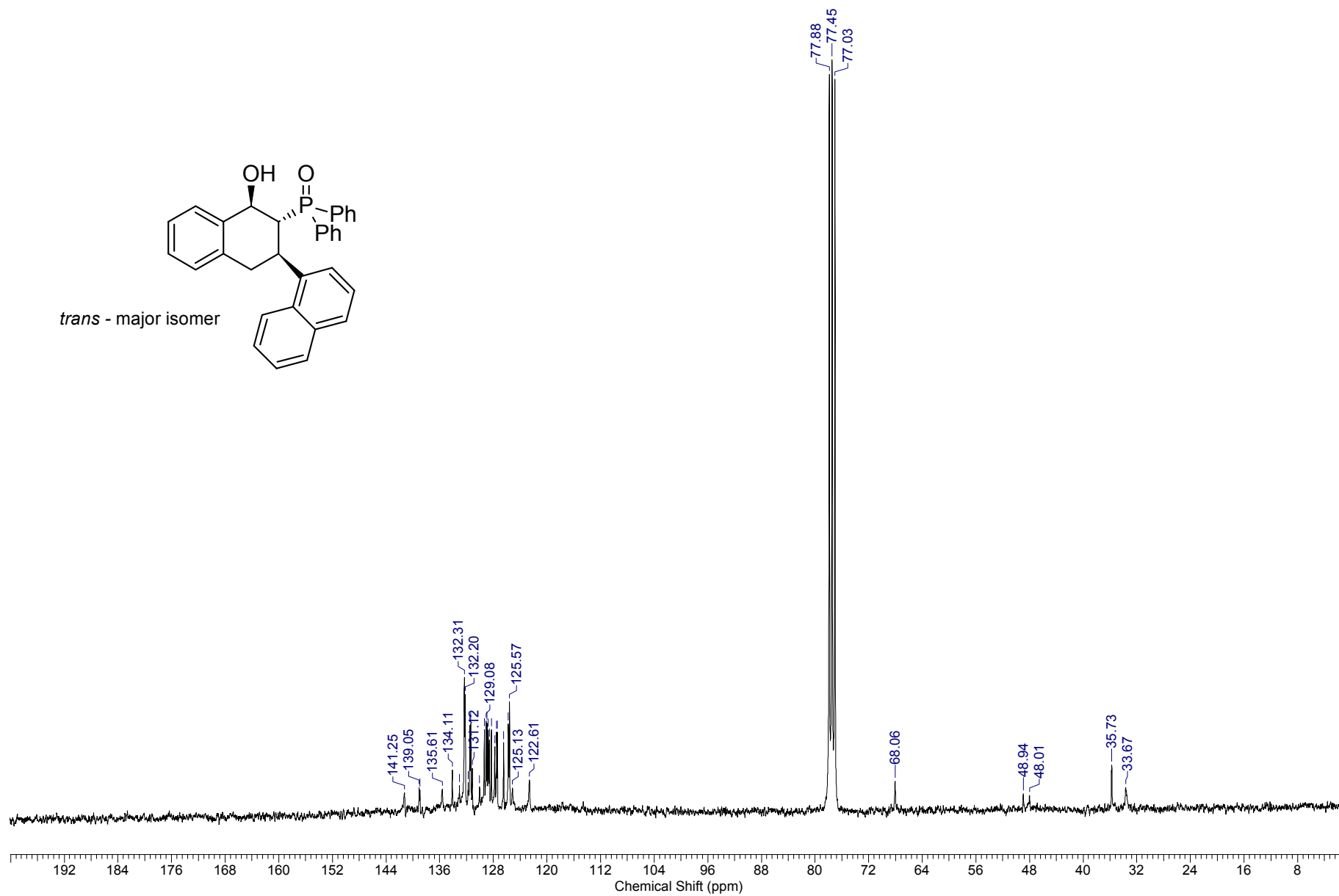
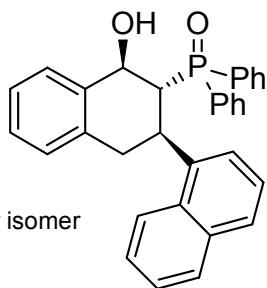


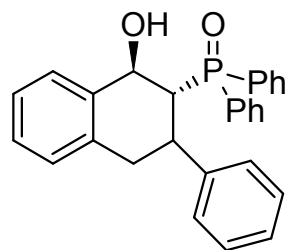




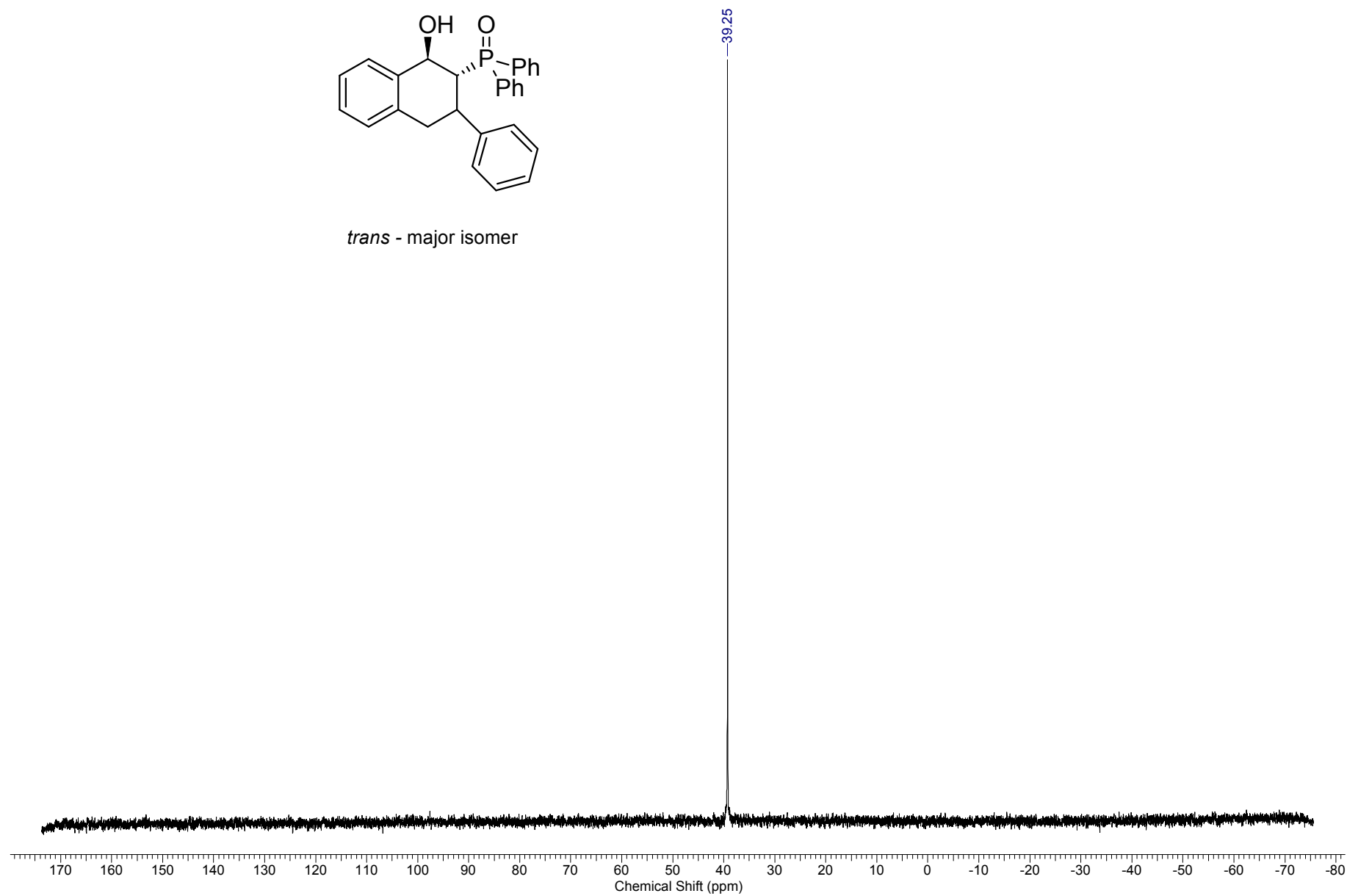
S63

trans - major isomer

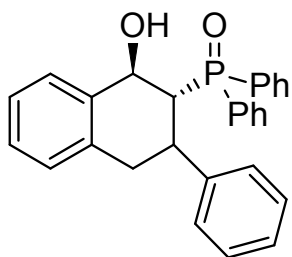




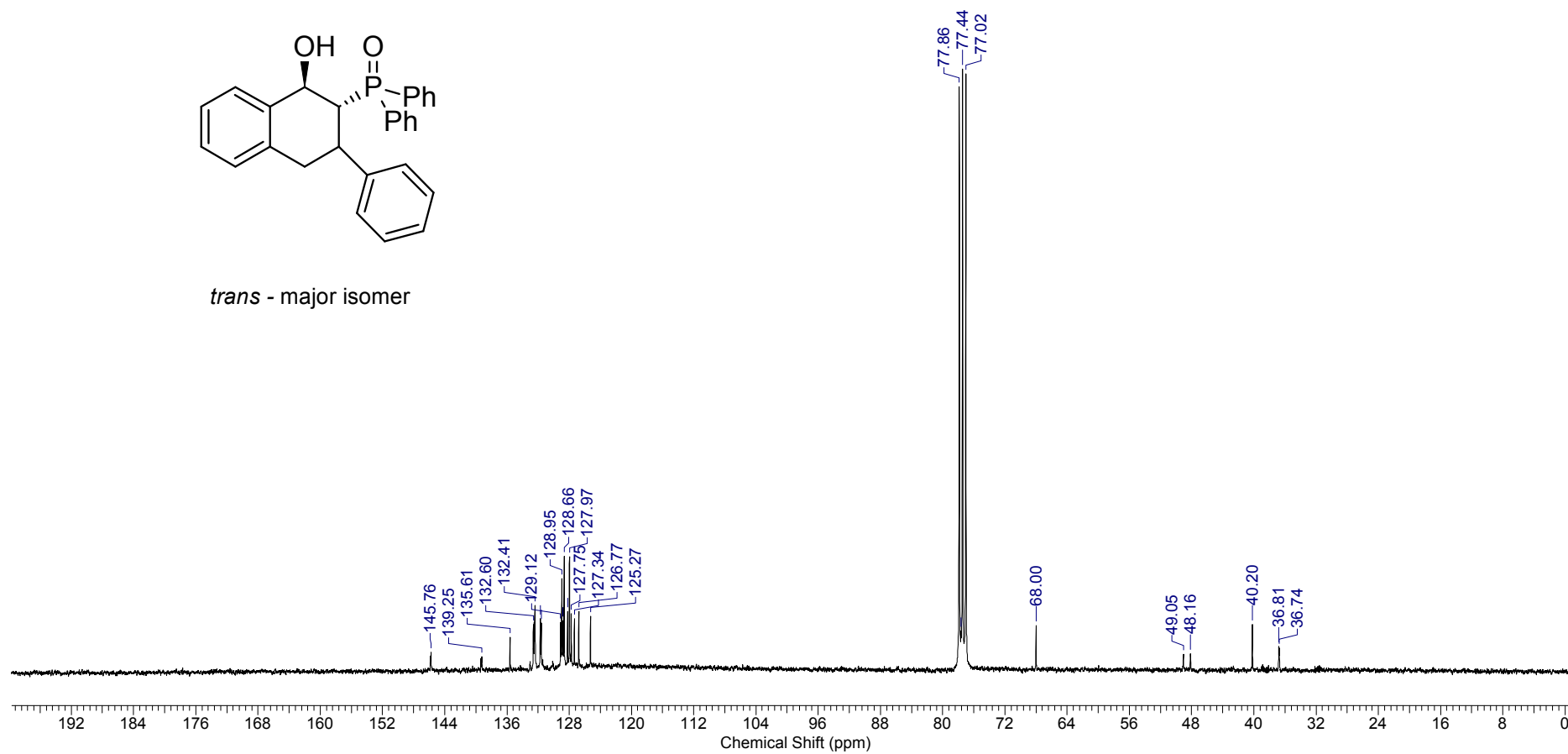
trans - major isomer

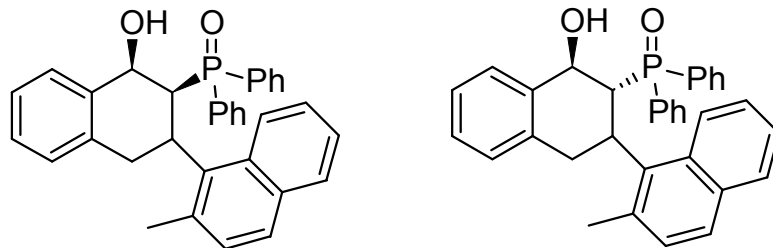


S65

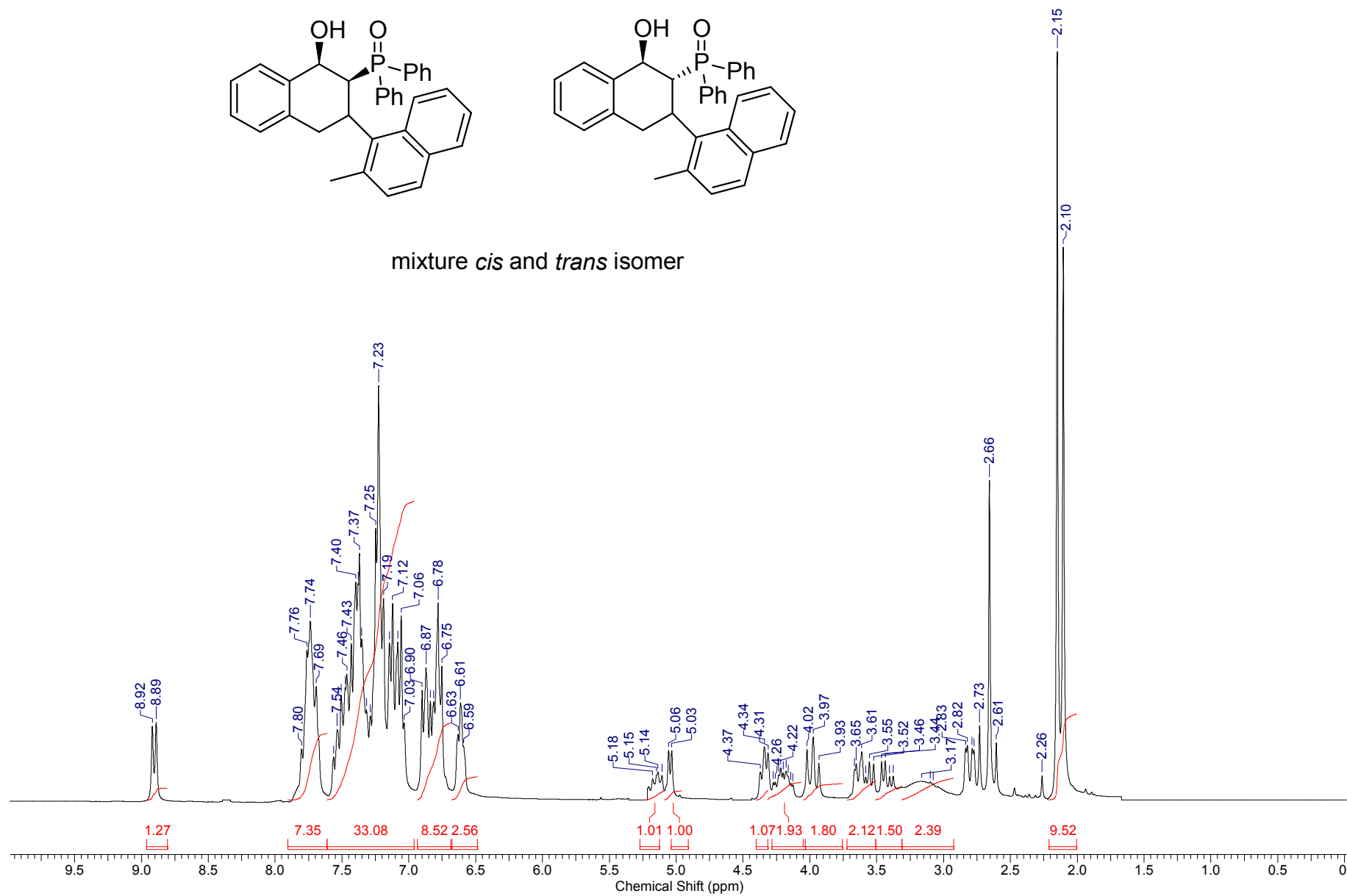


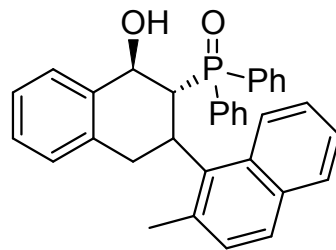
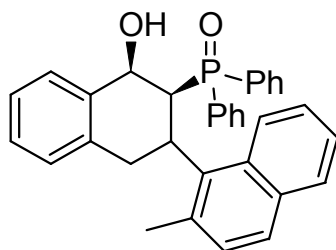
trans - major isomer



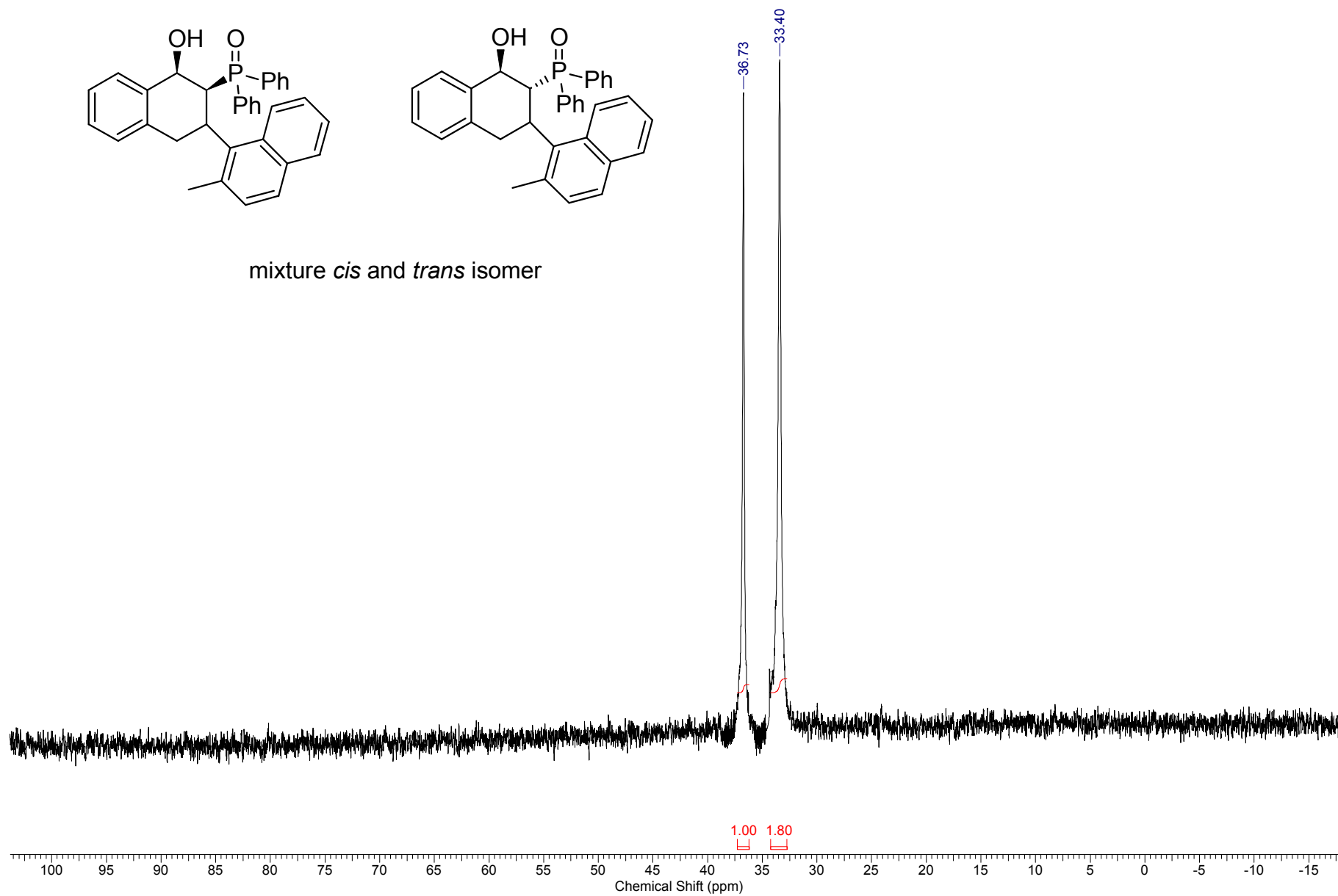


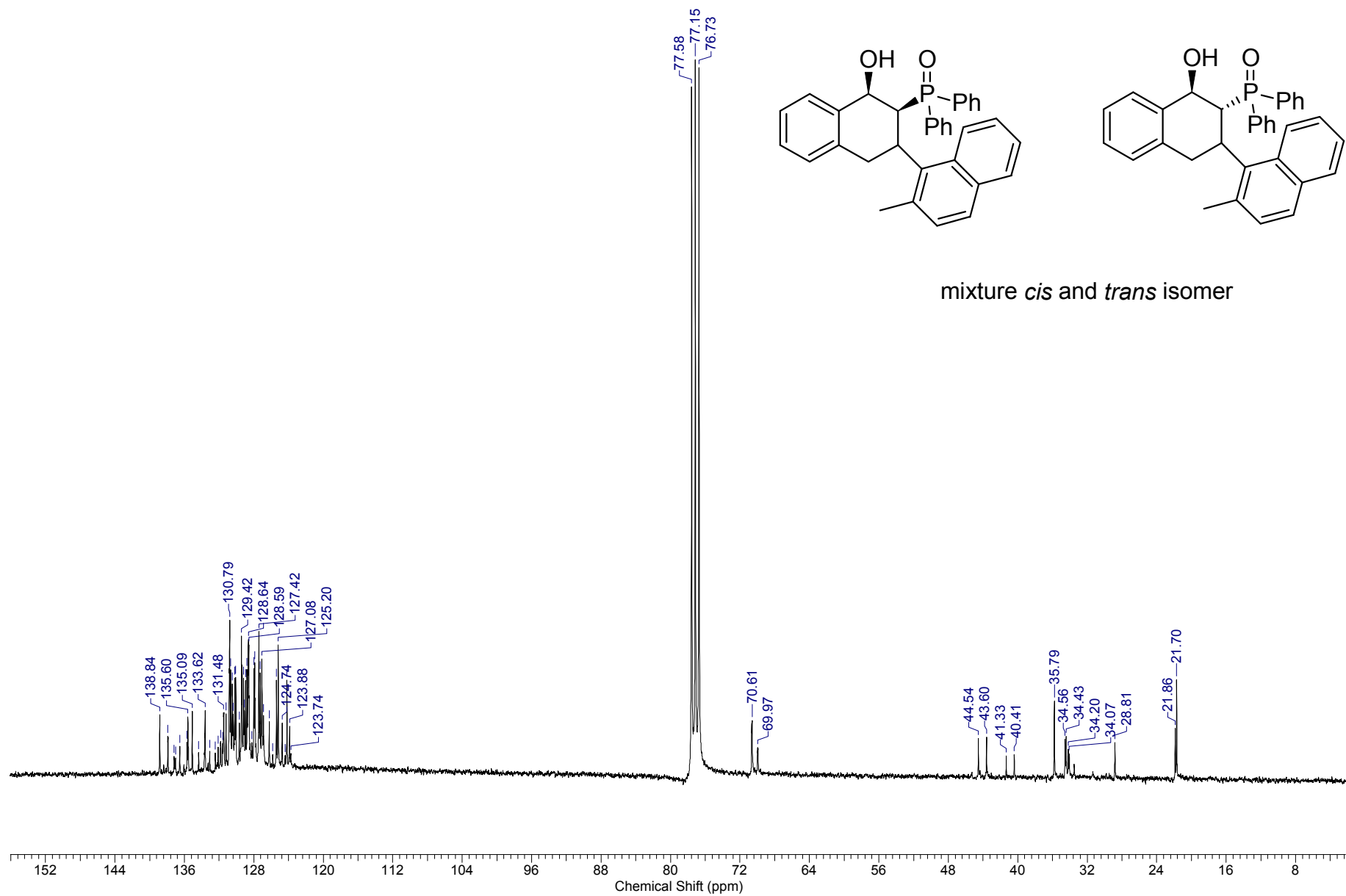
mixture *cis* and *trans* isomer

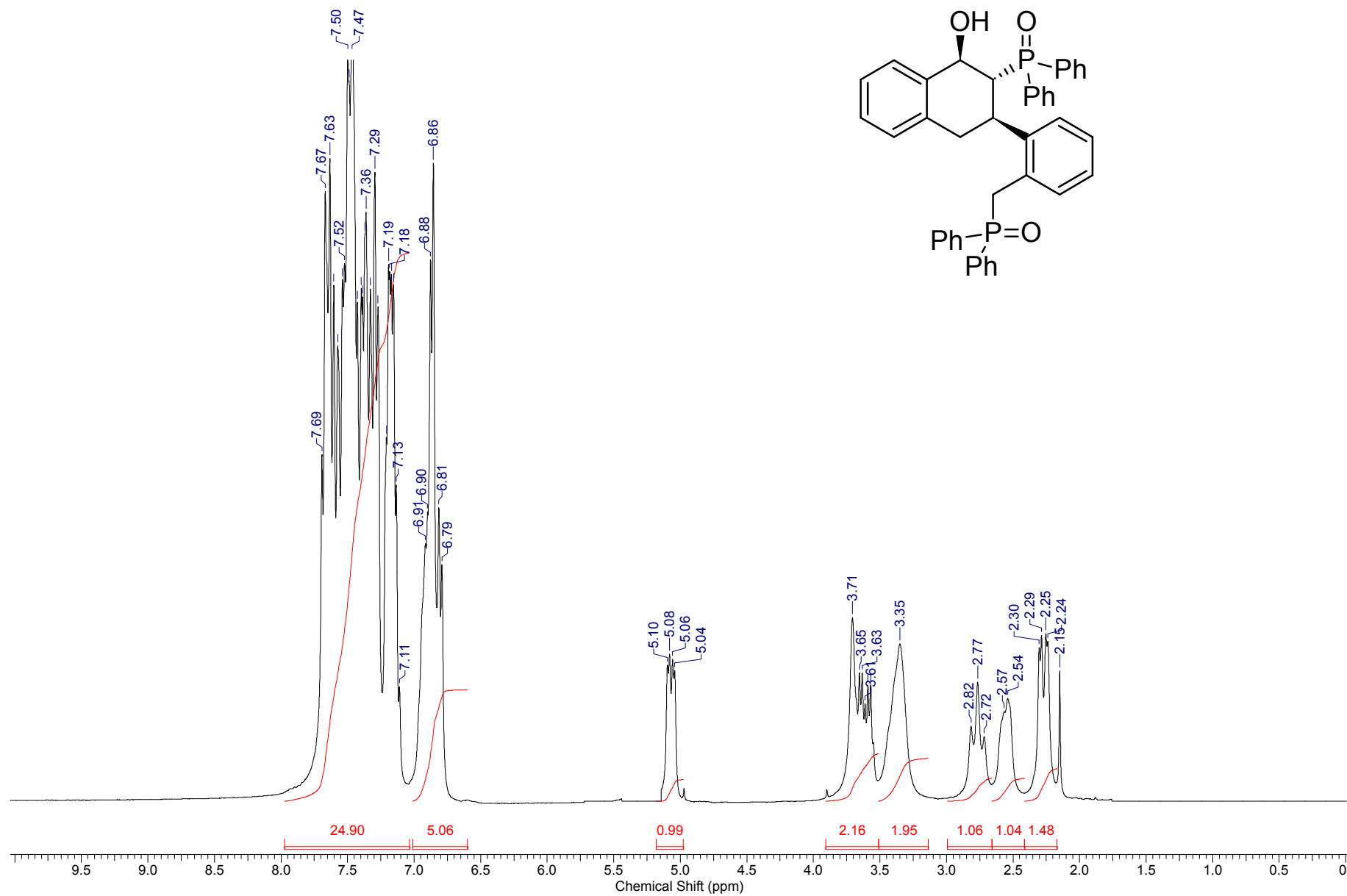


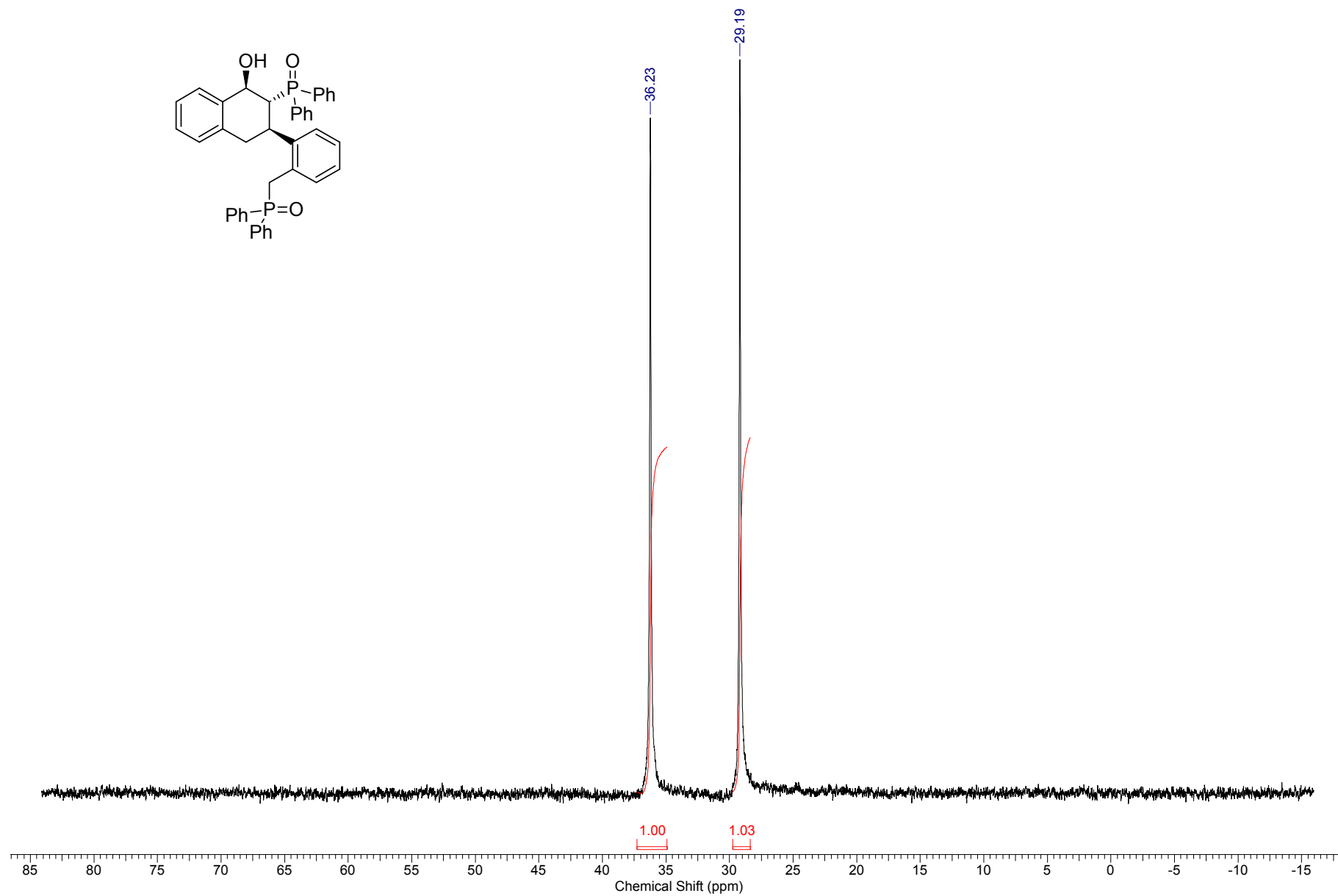
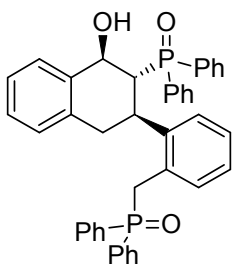


mixture *cis* and *trans* isomer

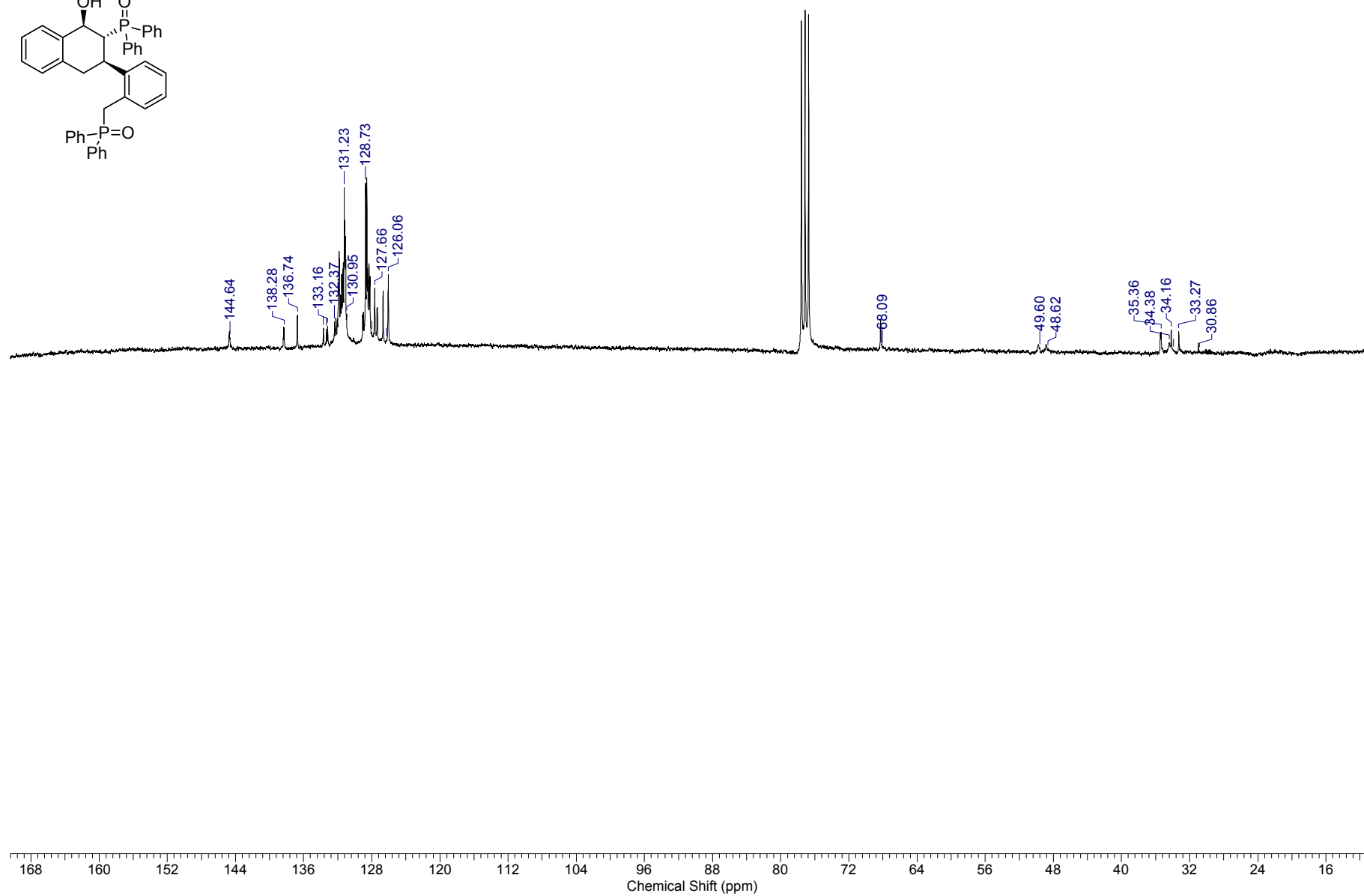
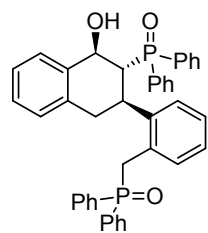


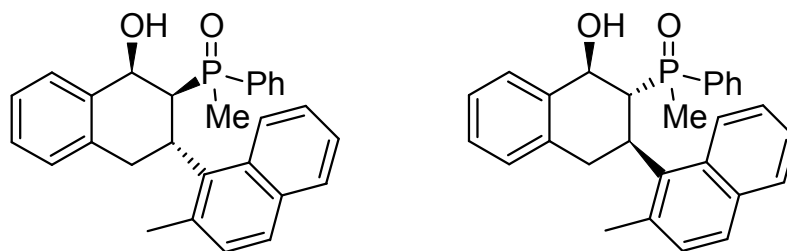




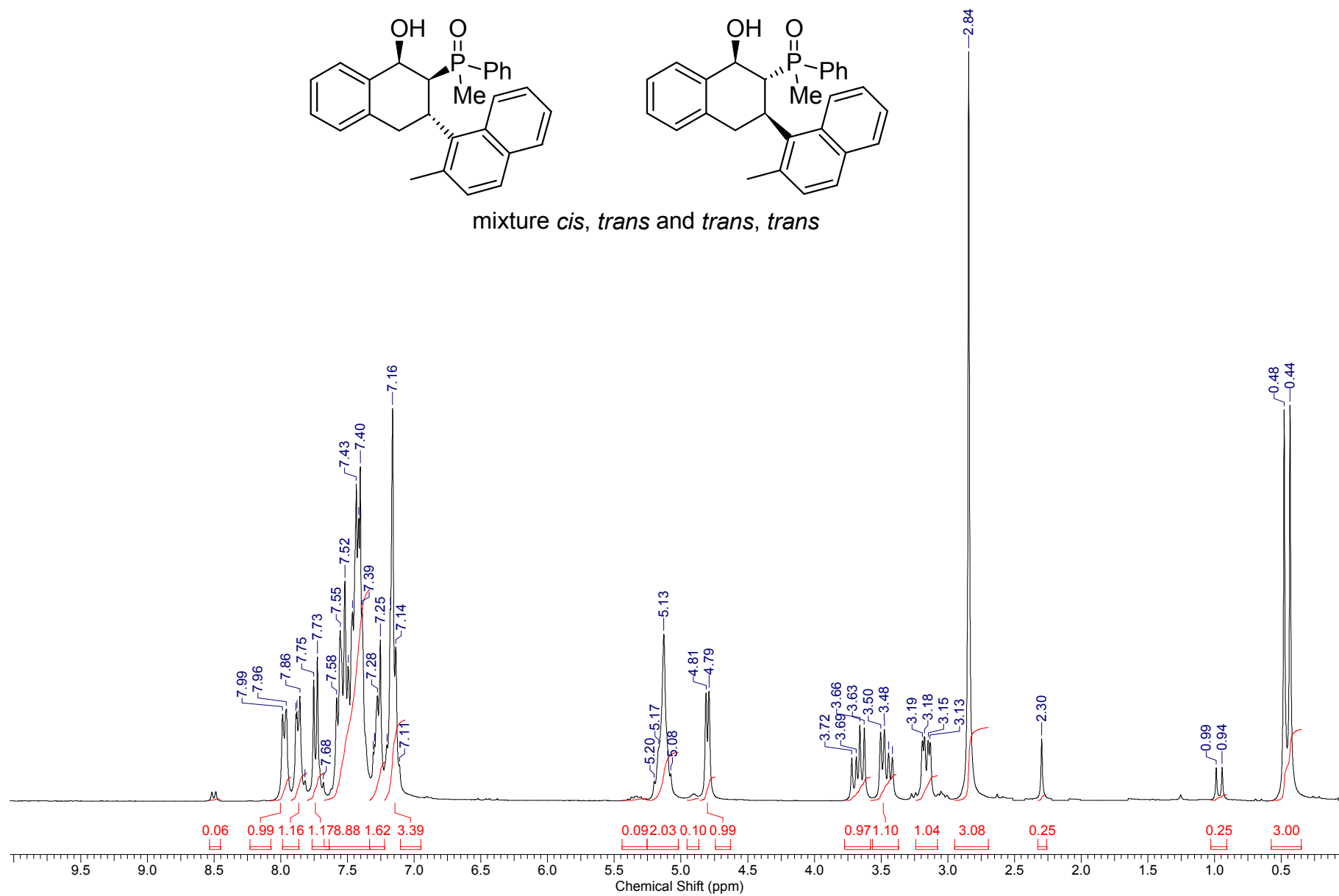


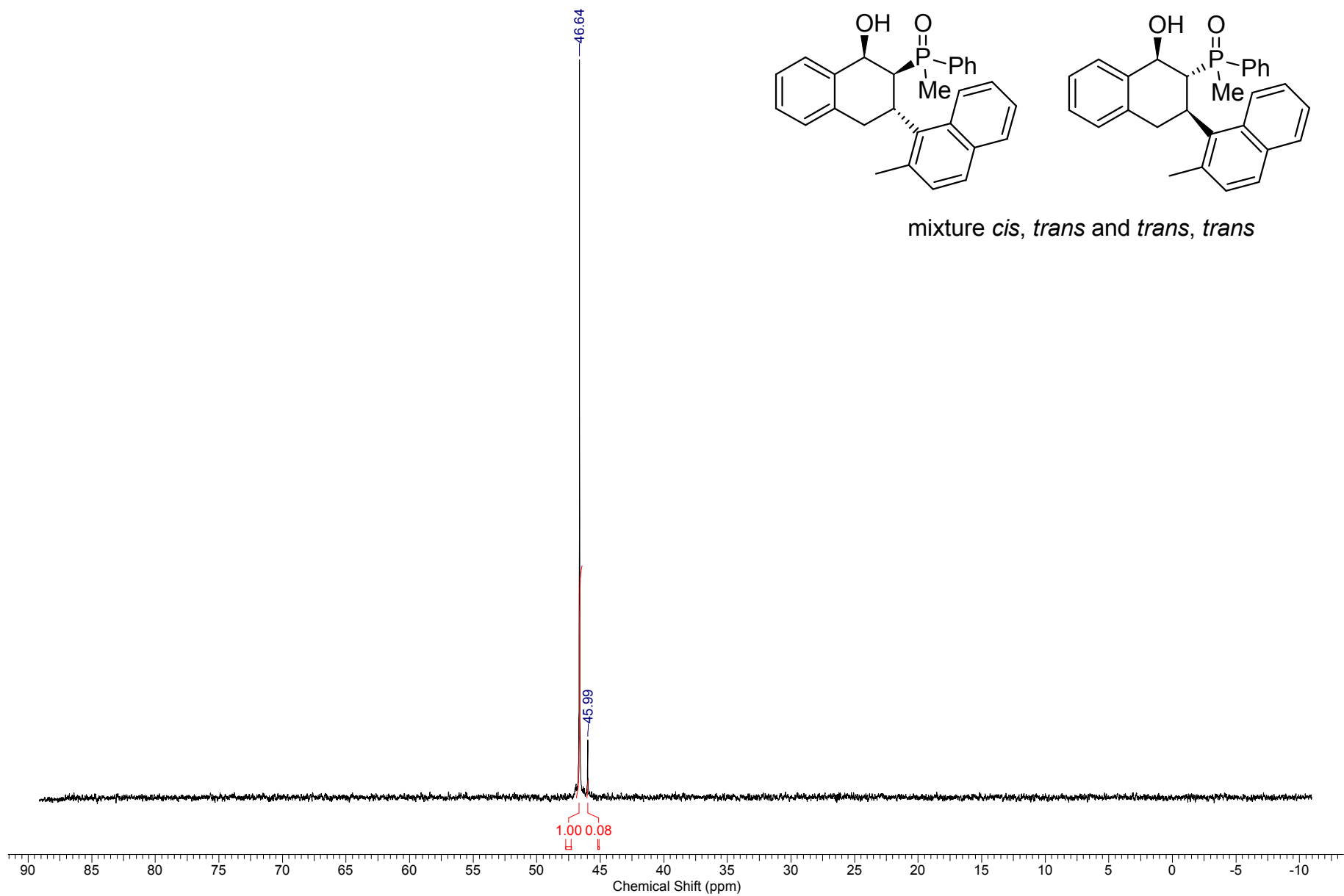
S71

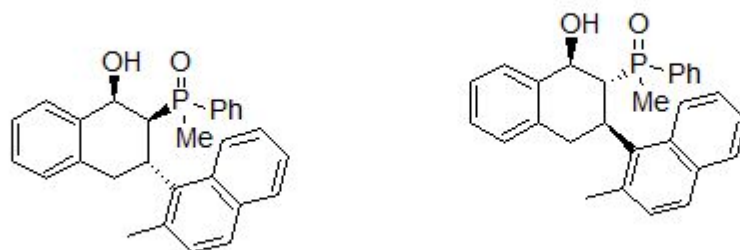




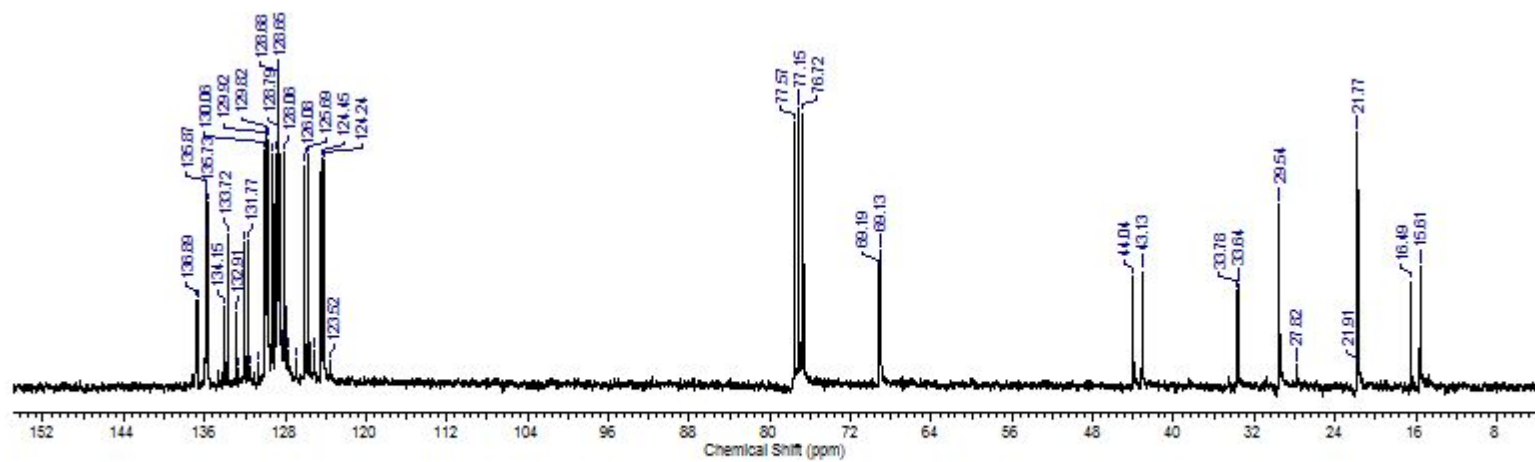
mixture *cis*, *trans* and *trans*, *trans*

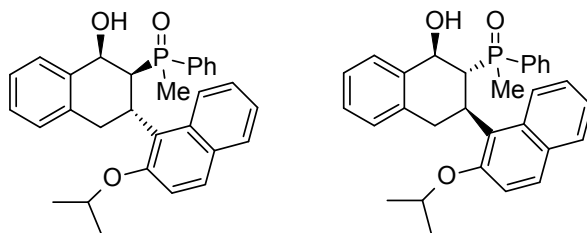




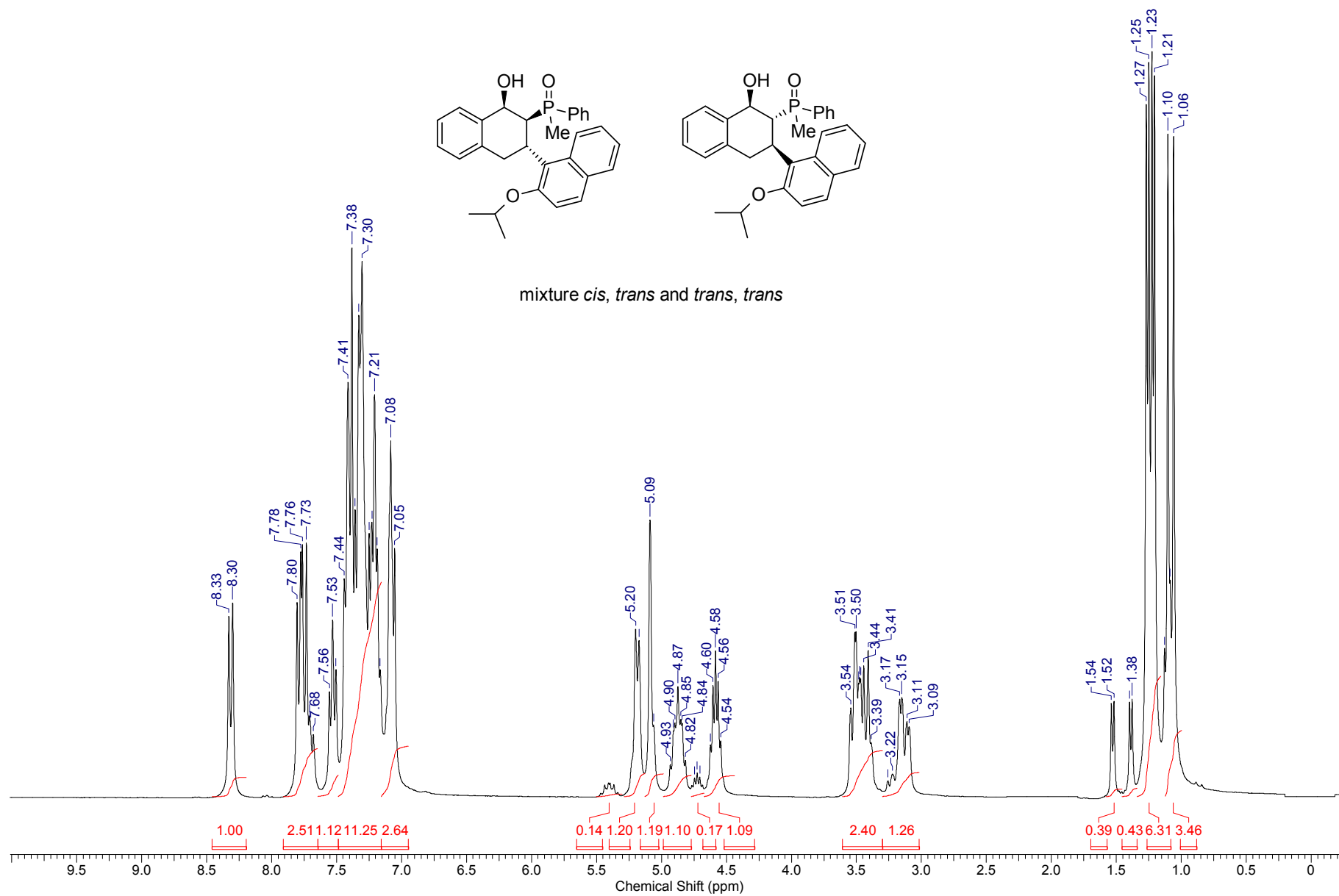


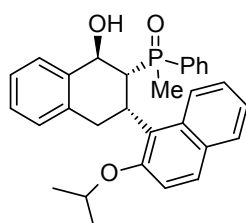
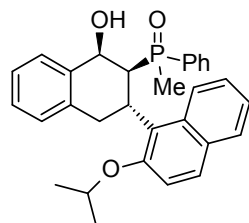
mixture *cis*, *trans* and *trans*, *trans*



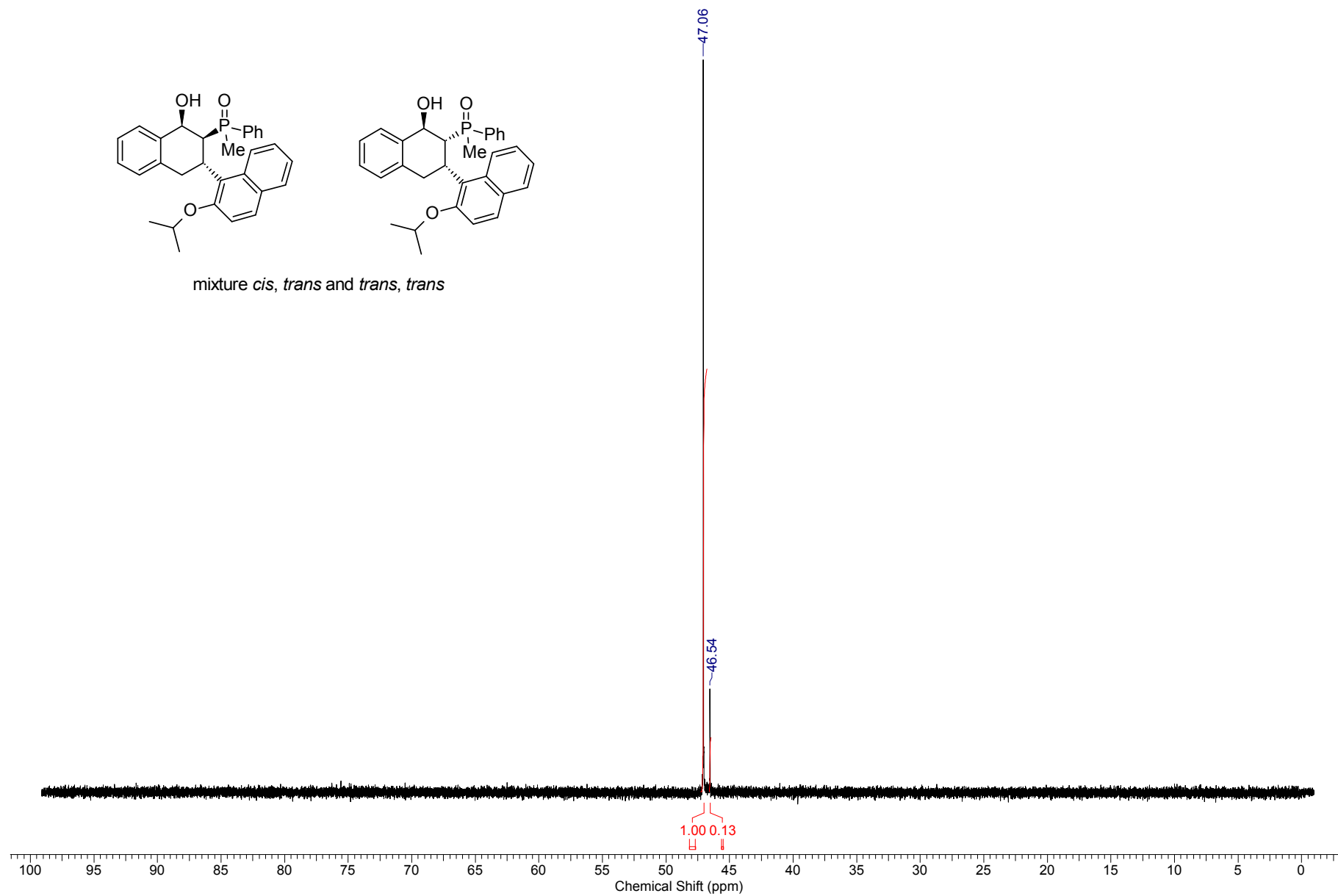


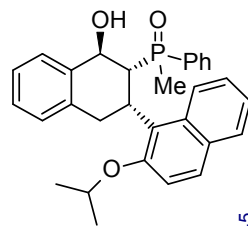
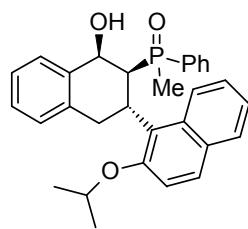
mixture *cis*, *trans* and *trans*, *trans*



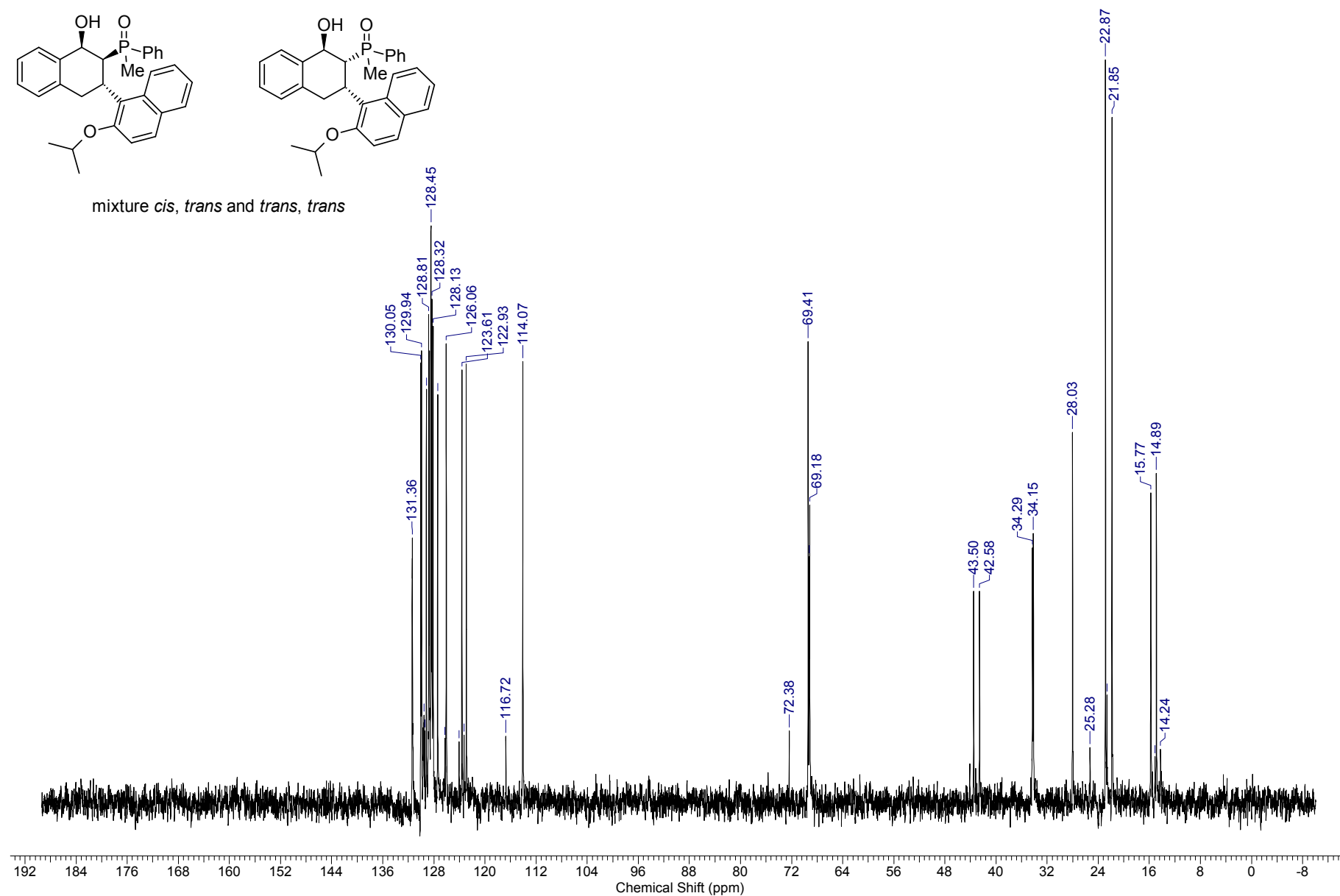


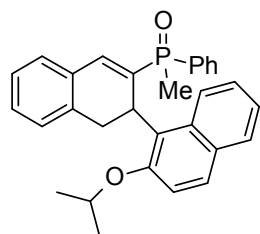
mixture *cis, trans* and *trans, trans*



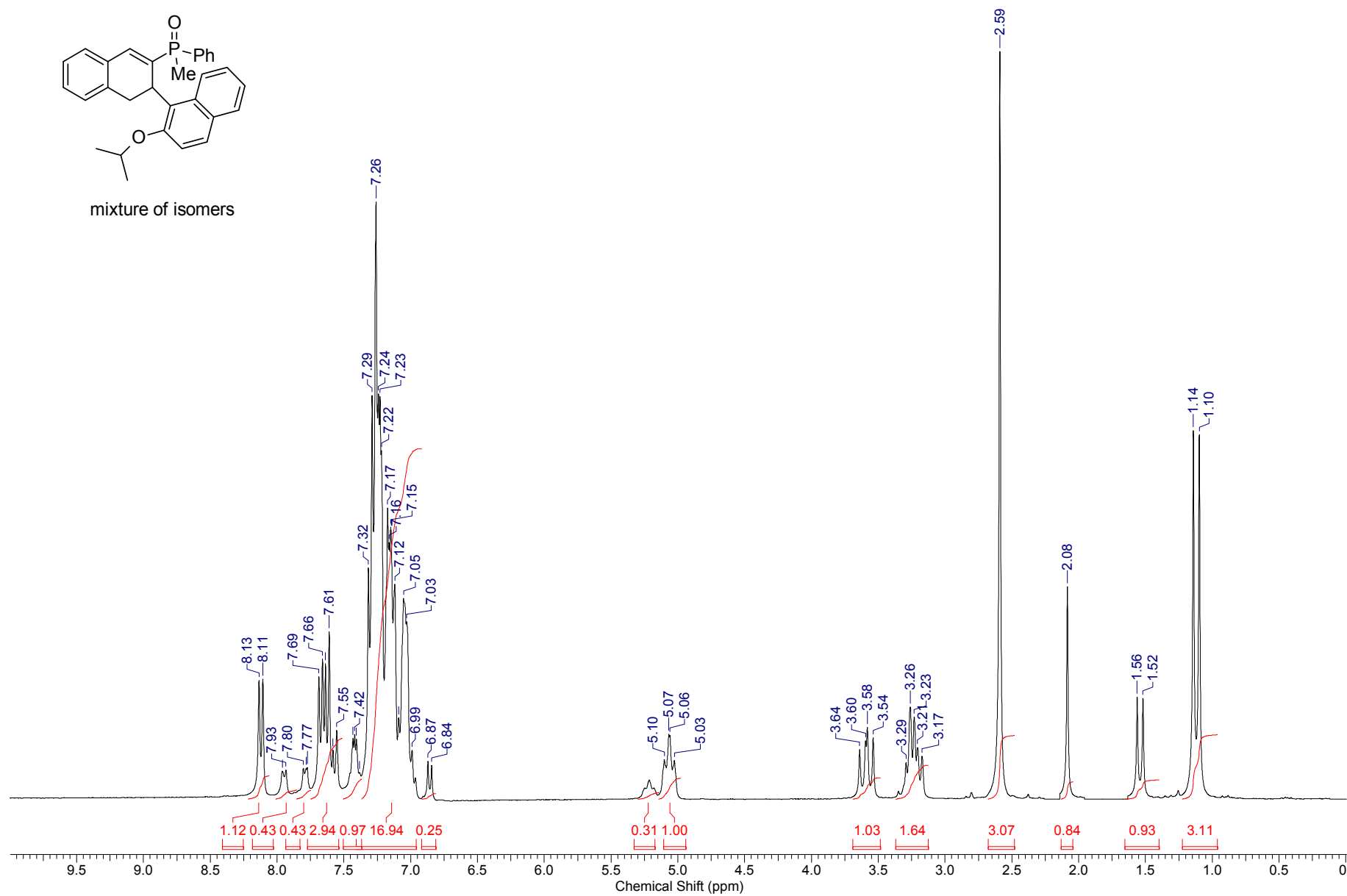


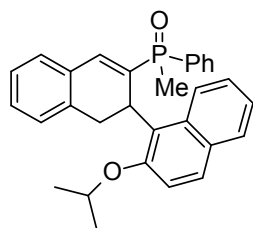
mixture *cis*, *trans* and *trans*, *trans*



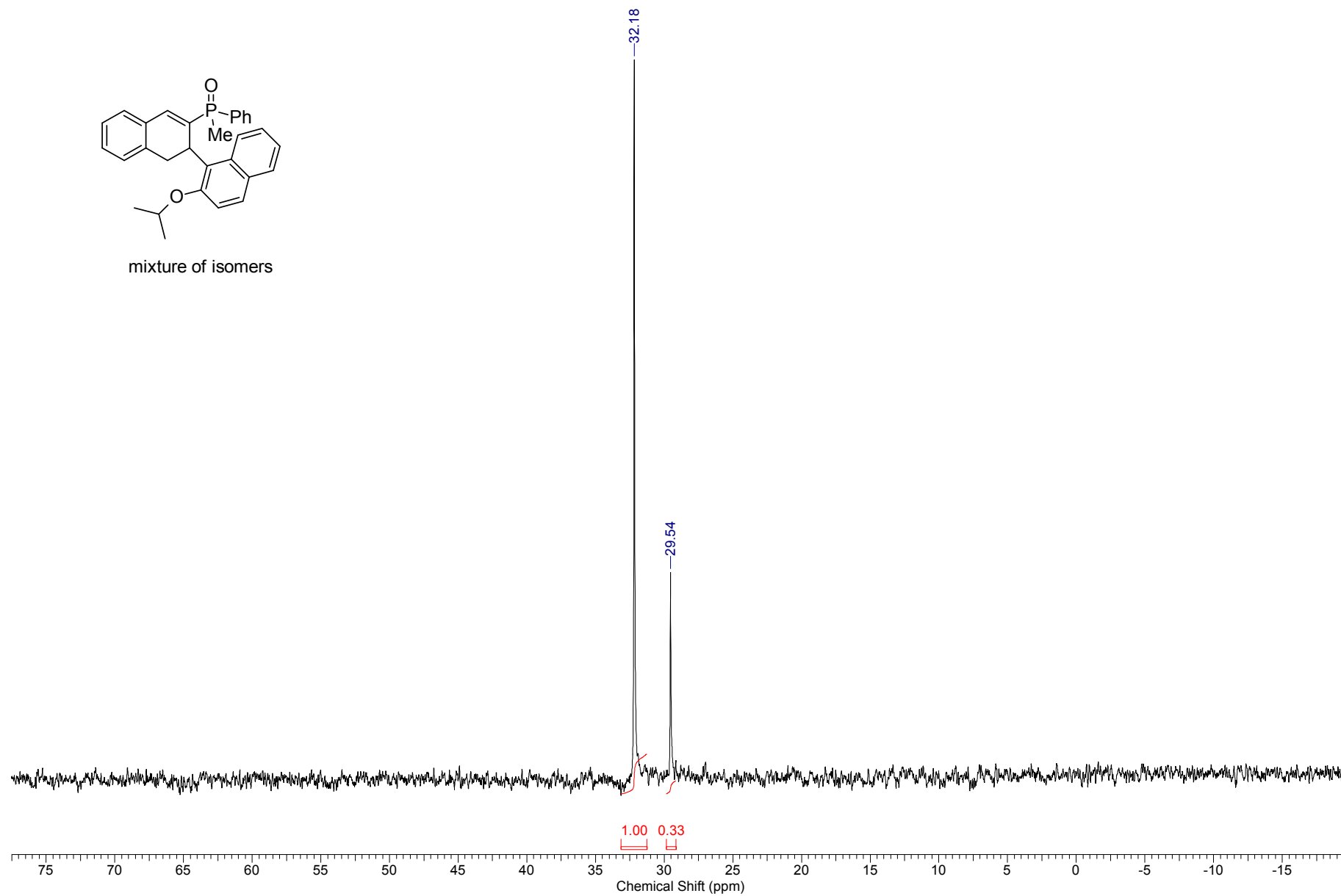


mixture of isomers

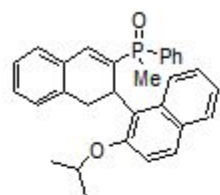




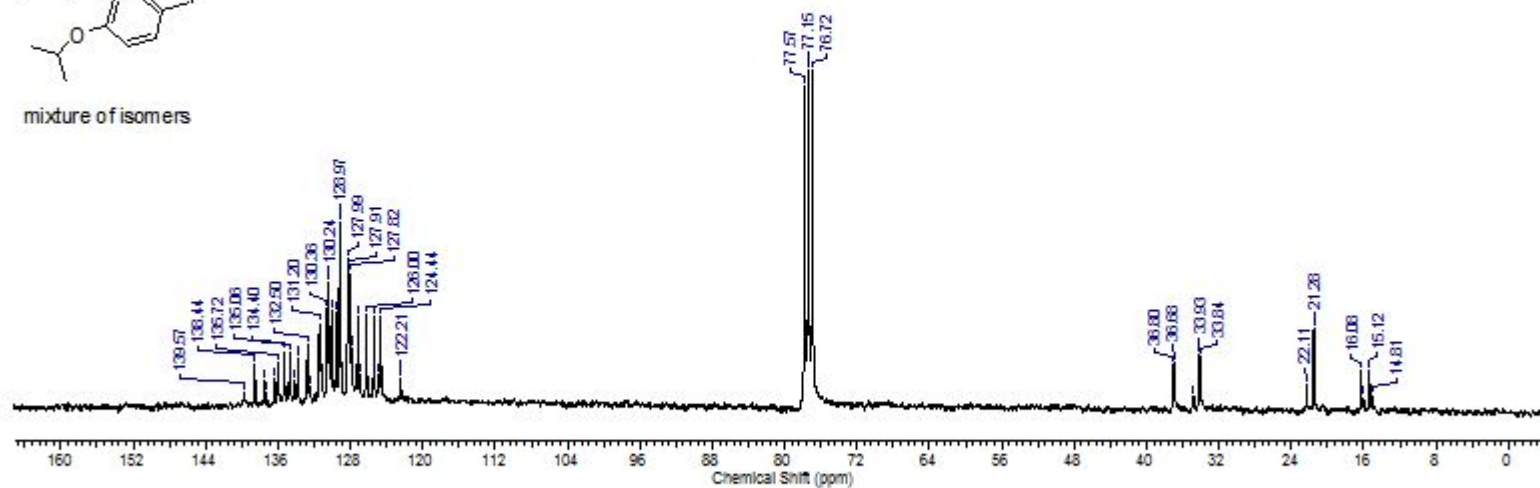
mixture of isomers

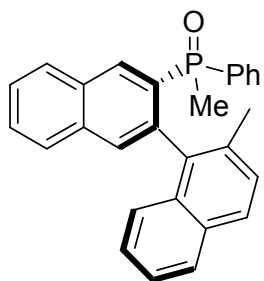


S80

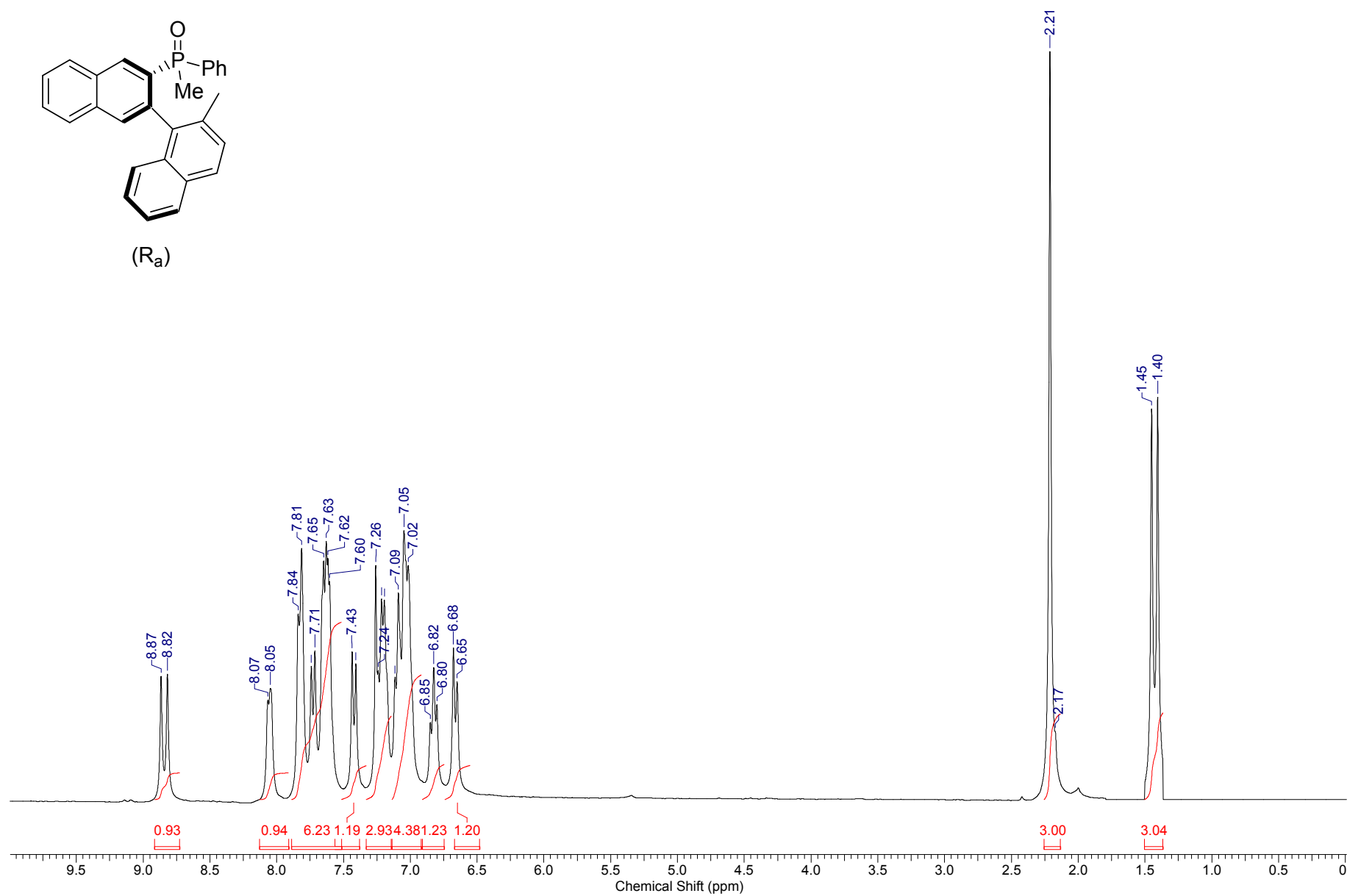


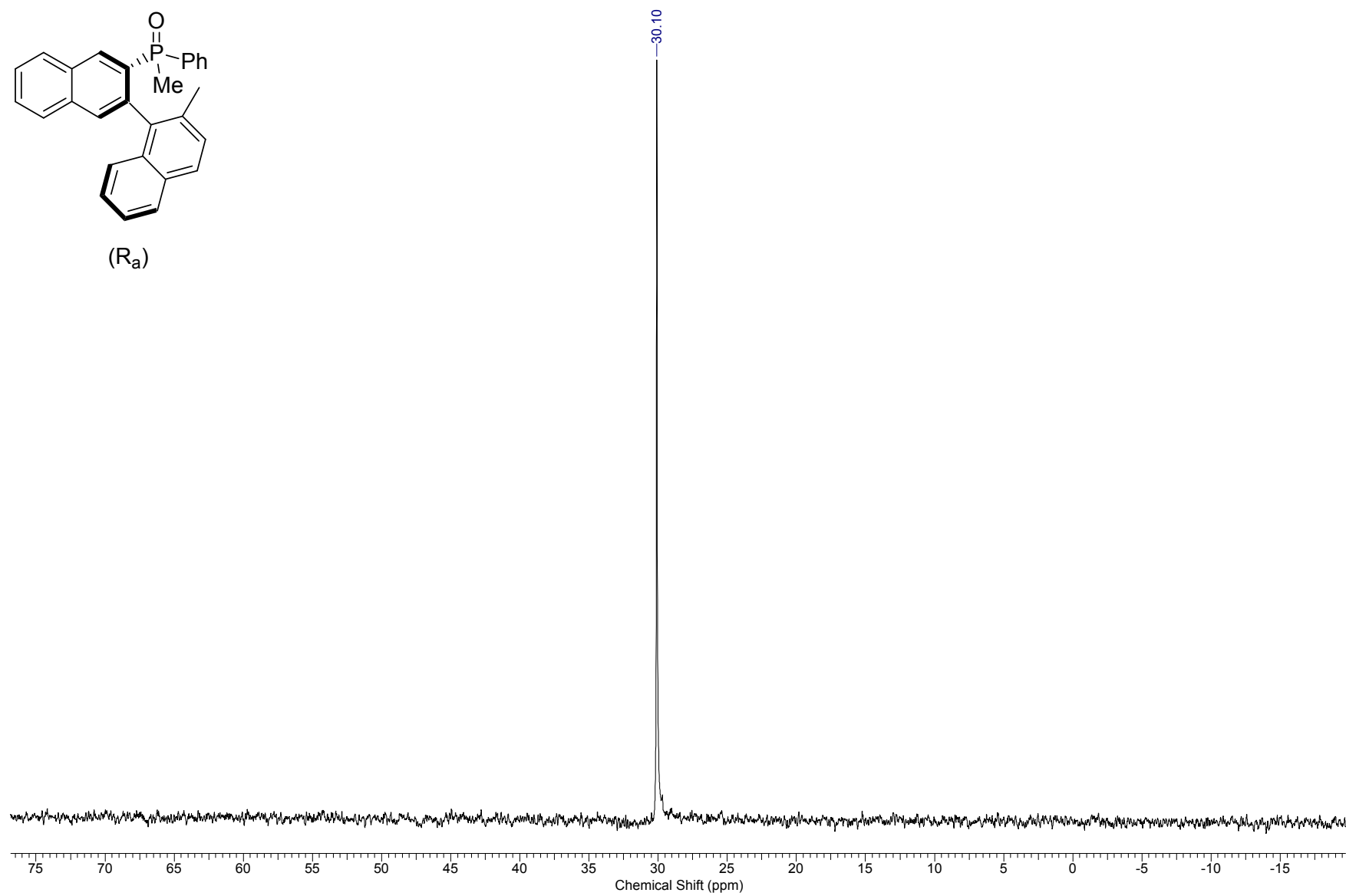
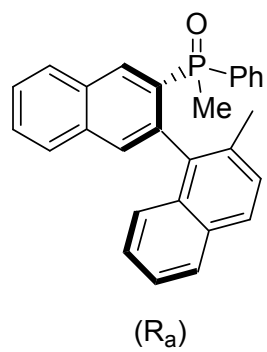
mixture of isomers

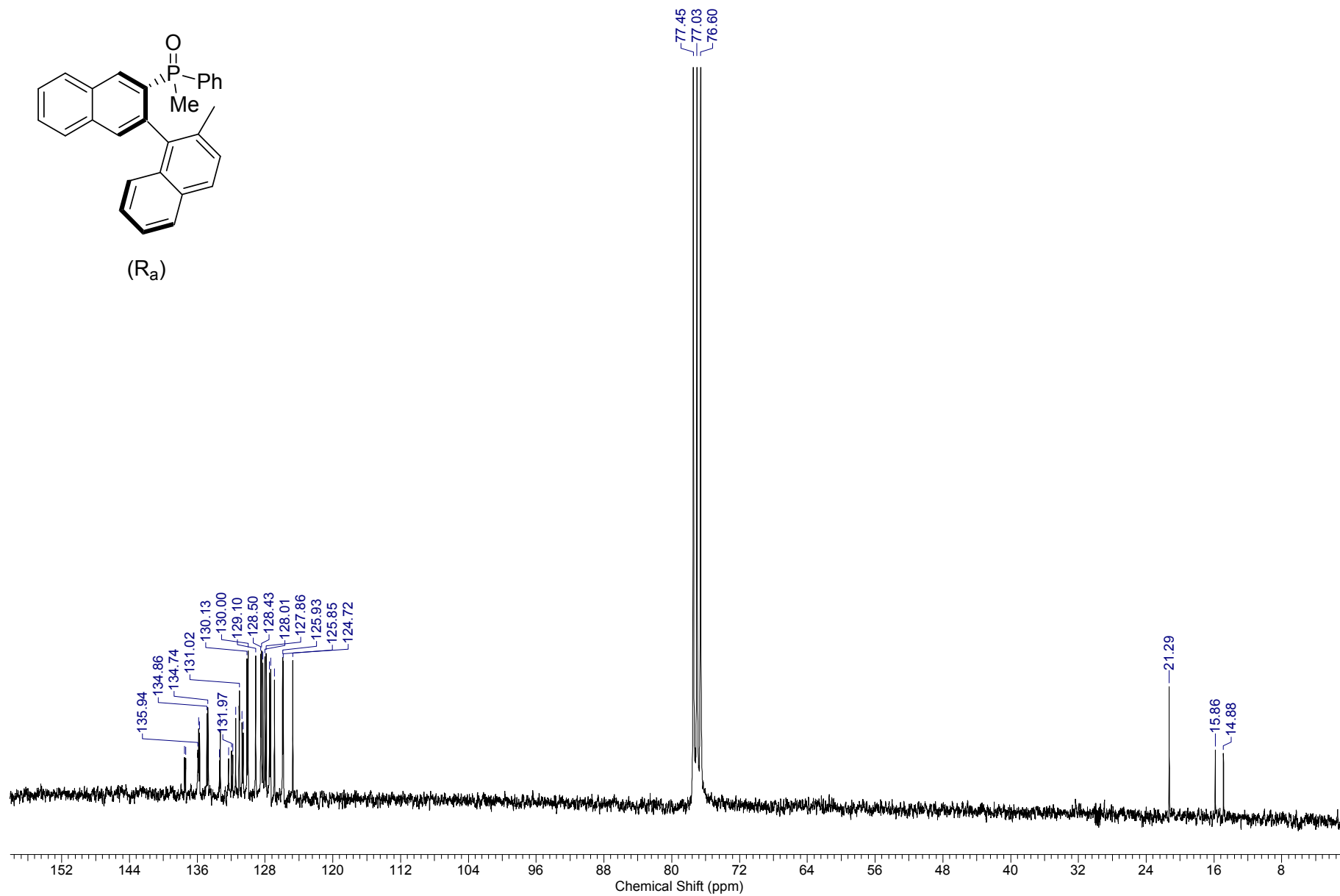
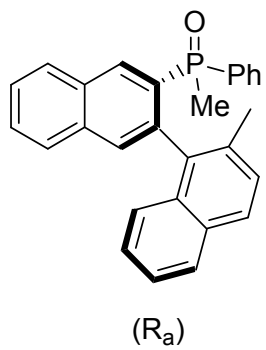


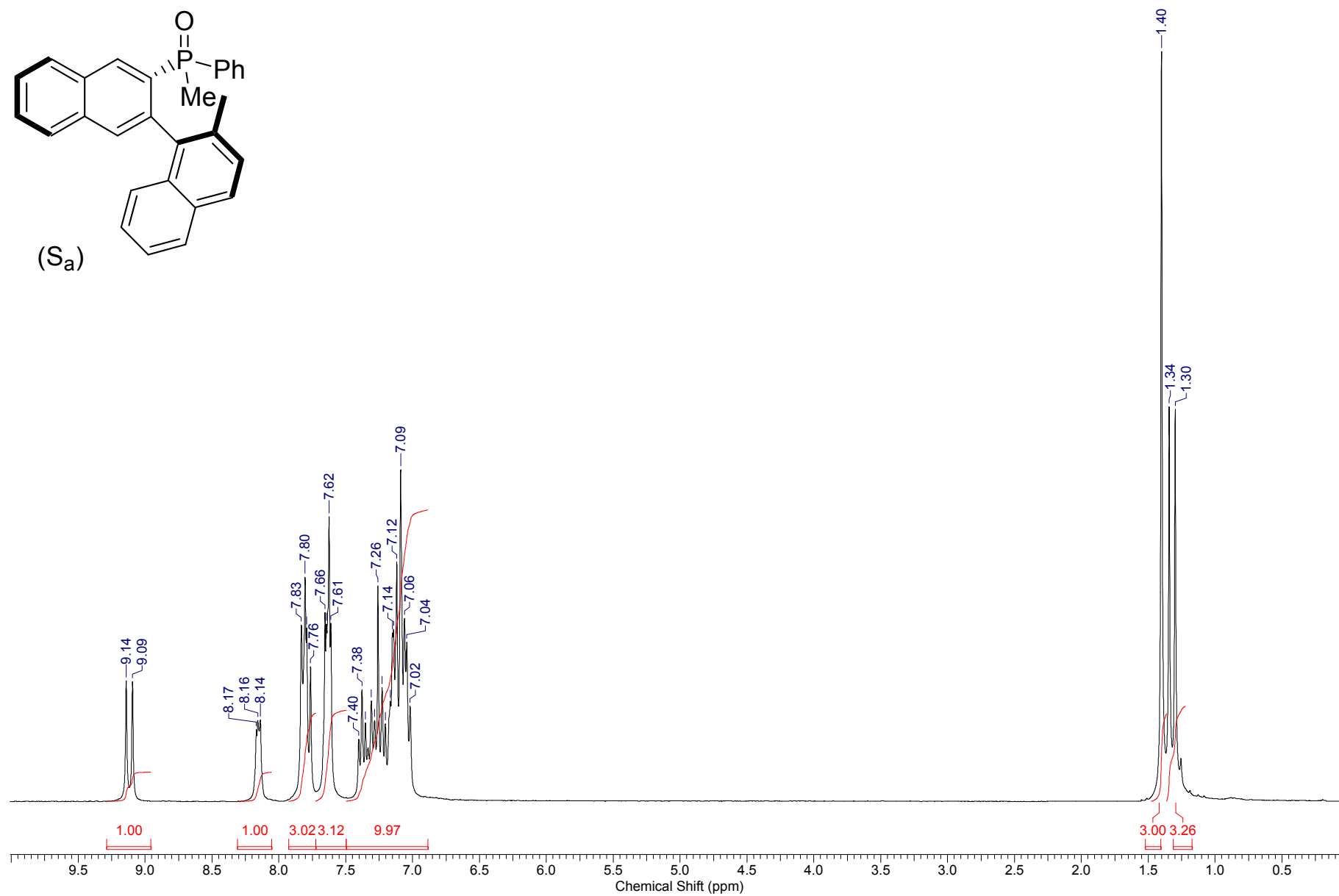
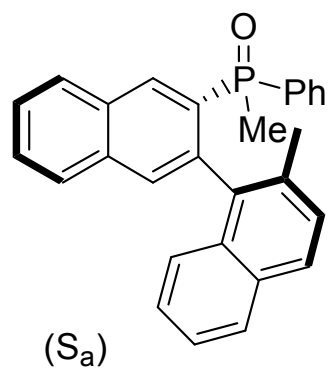


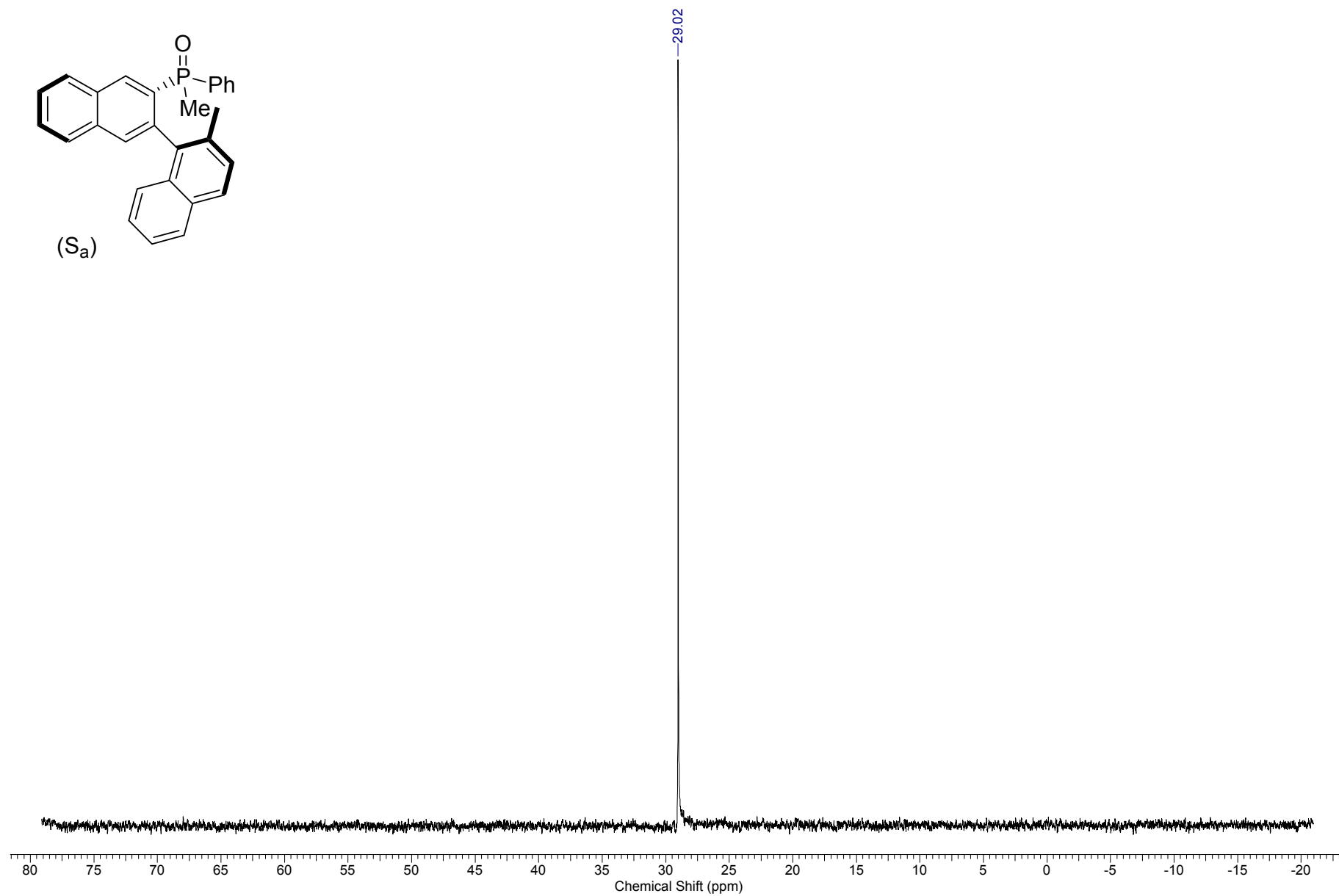
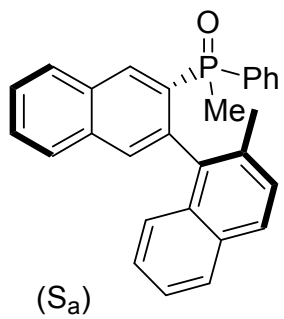
(R_a)



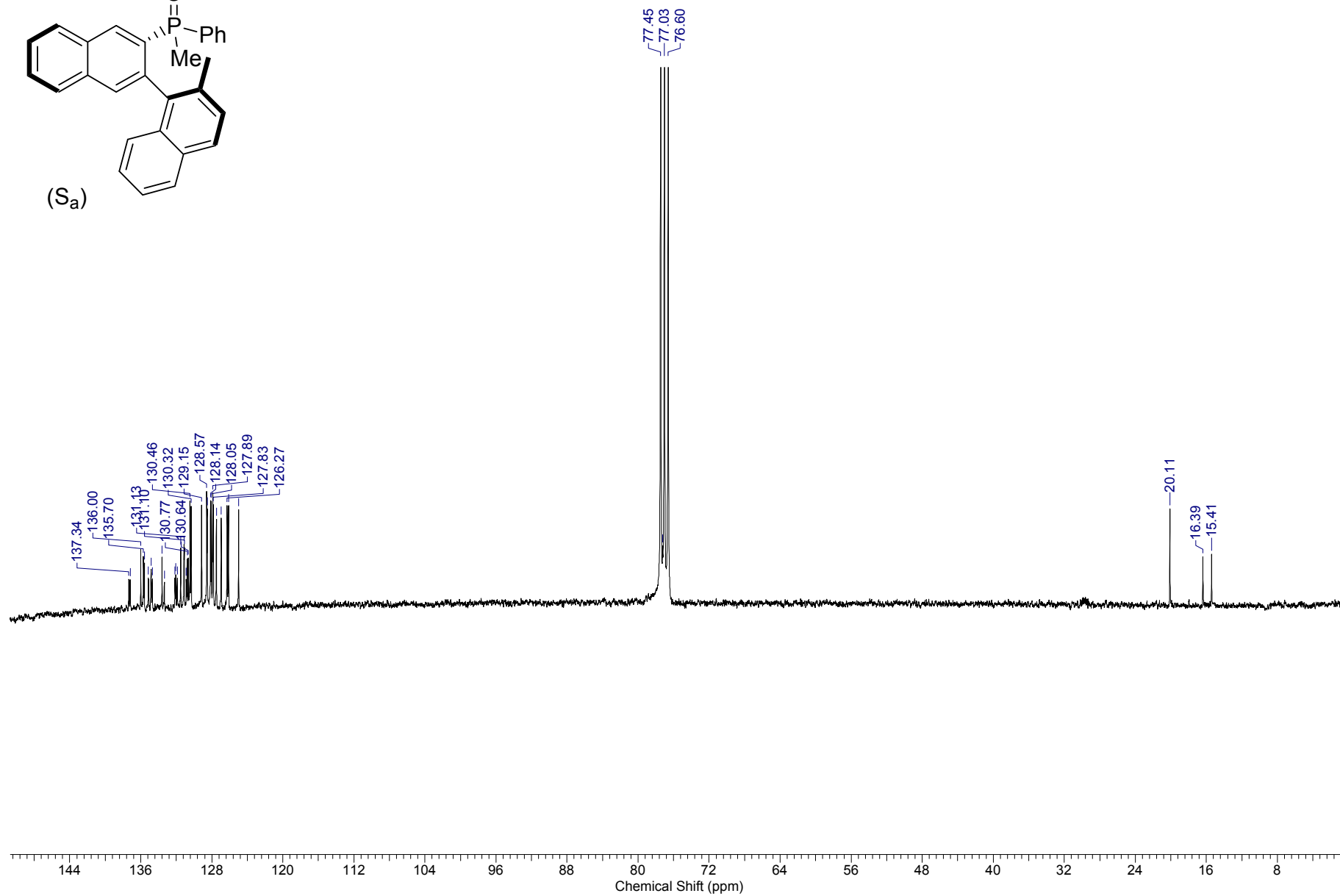
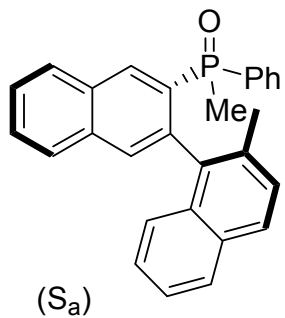


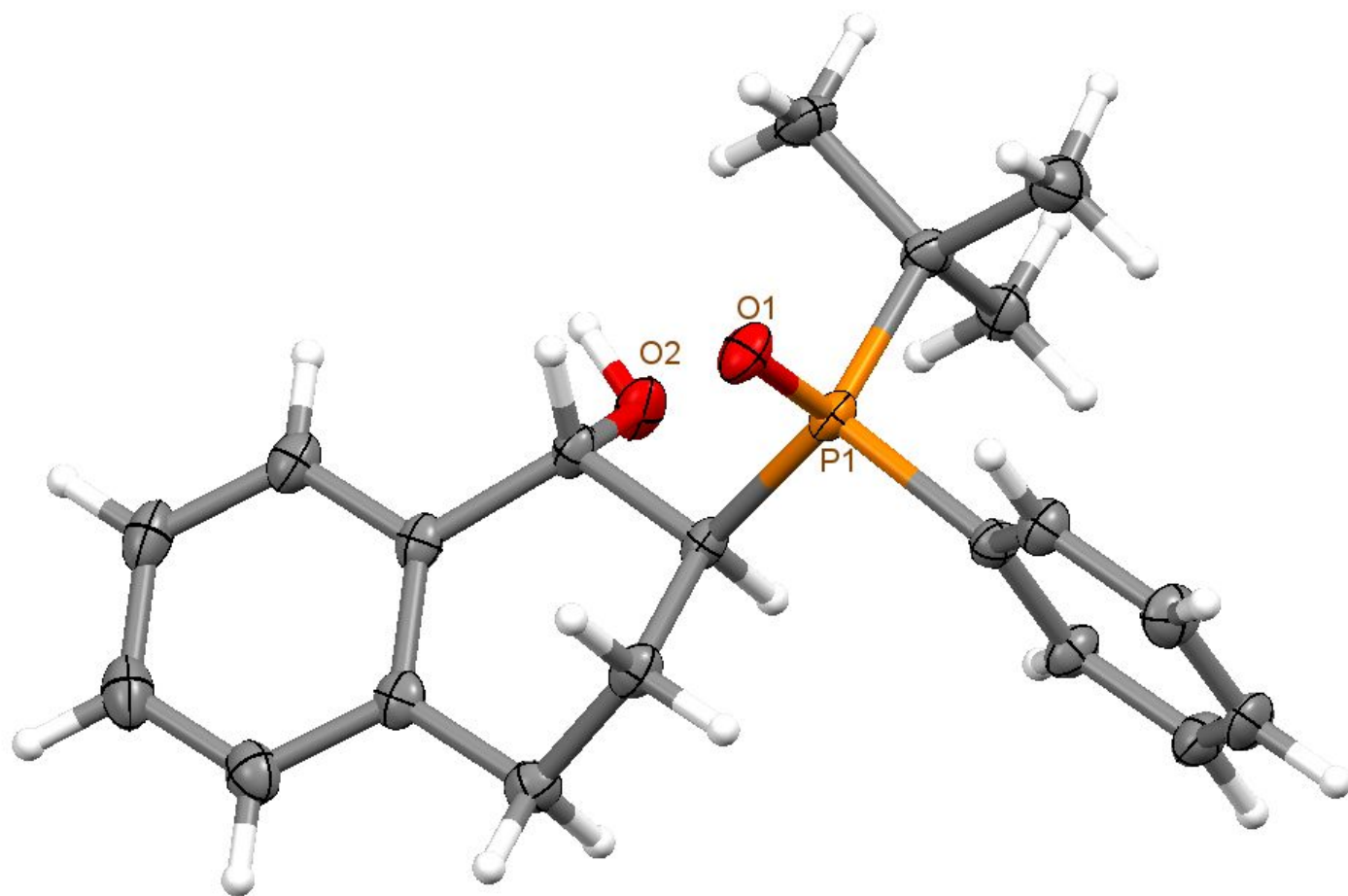




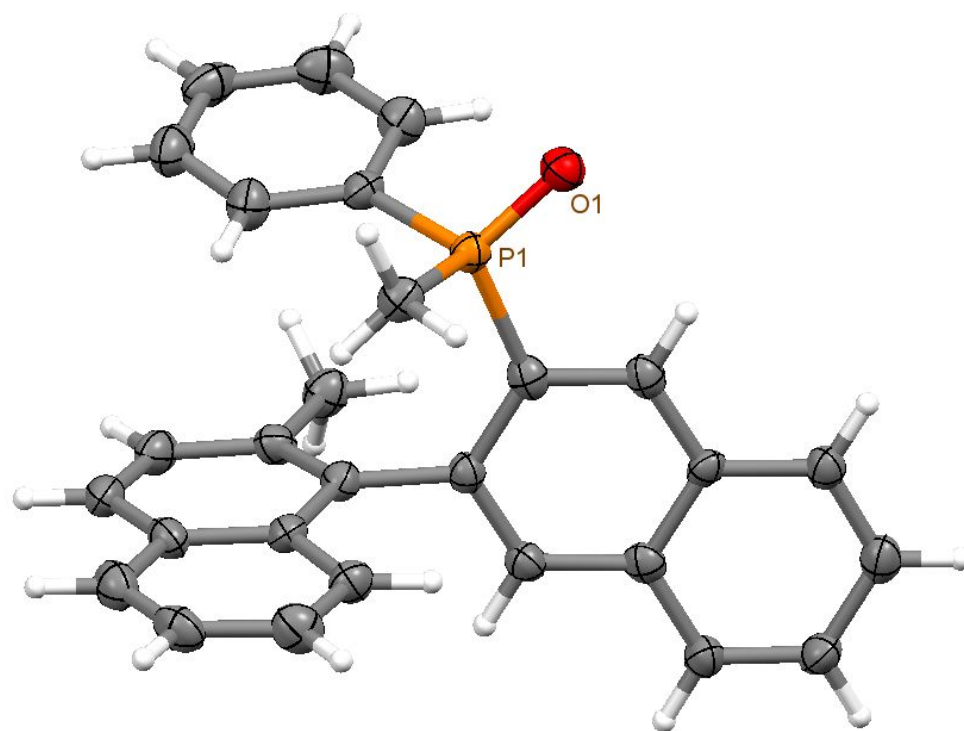


S86





ORTEP view of compound **29c** showing 50% probability displacement ellipsoids for non-H atoms.



ORTEP view of compound **39b** showing 50% probability displacement ellipsoids for non-H atoms.