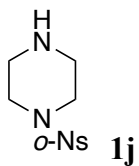


Supporting Information
for DOI: 10.1055/a-1468-8275

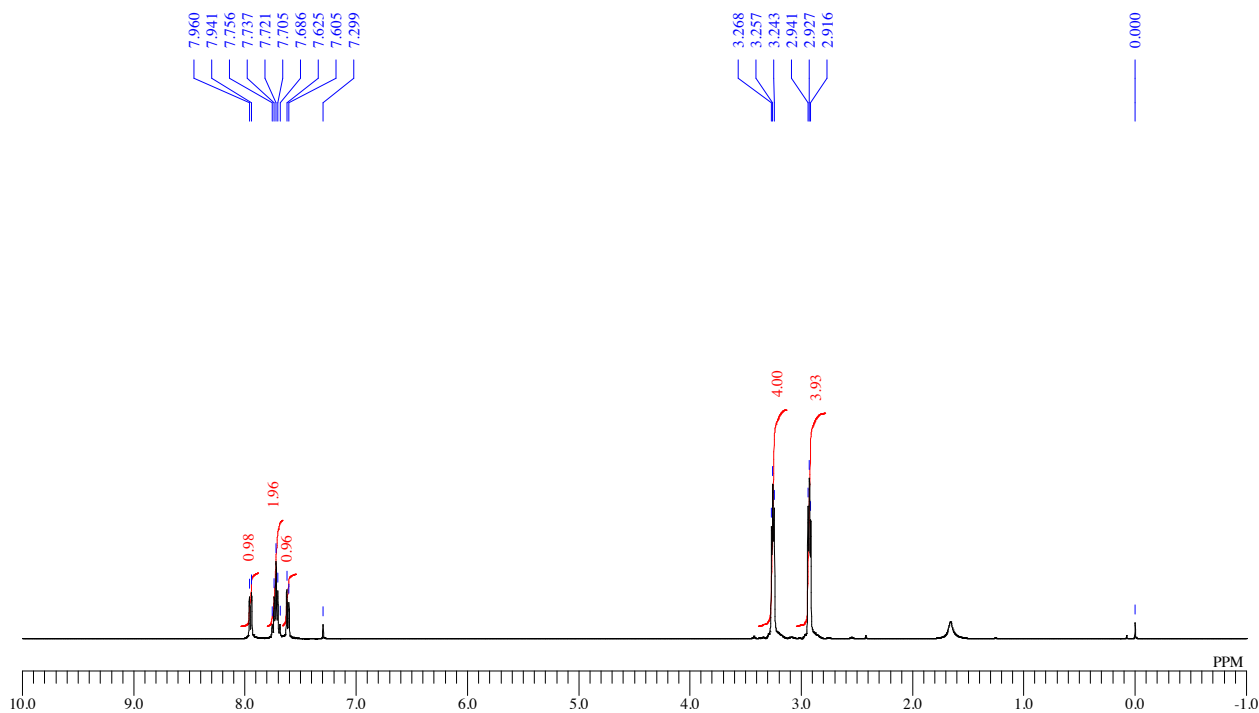
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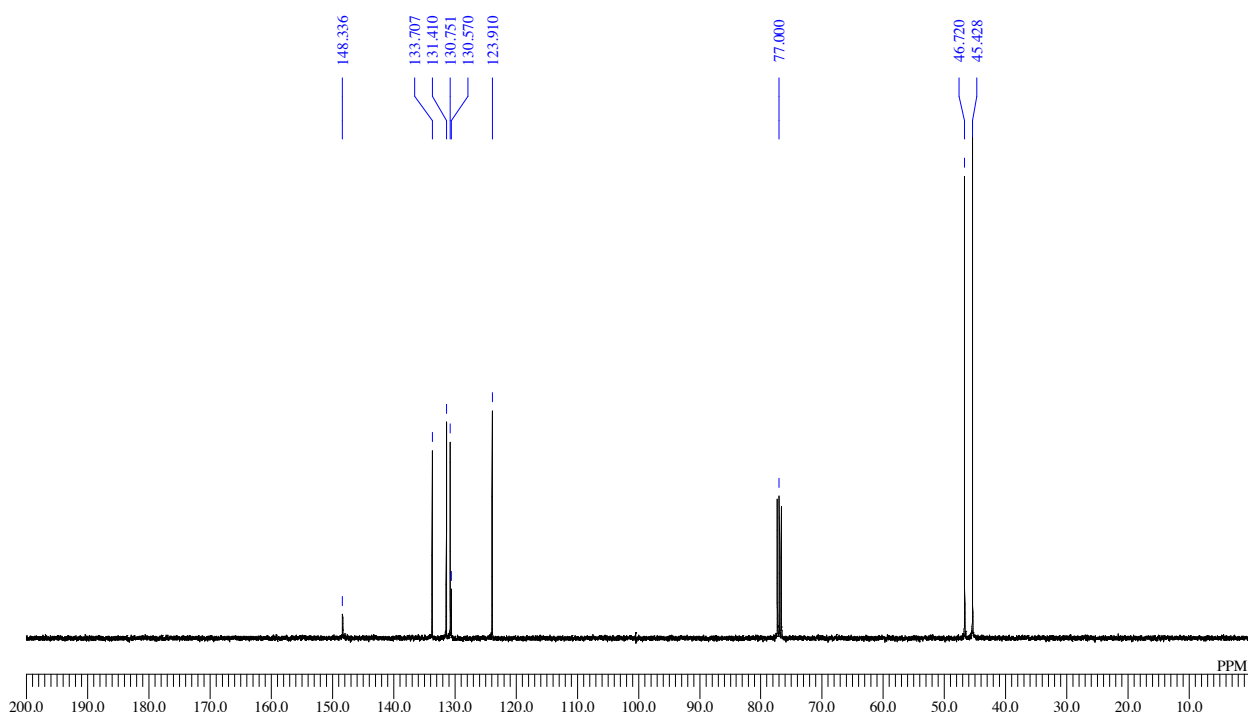
NMR spectra

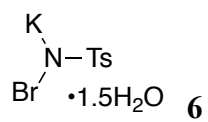


¹H NMR: (400 MHz, CDCl₃)

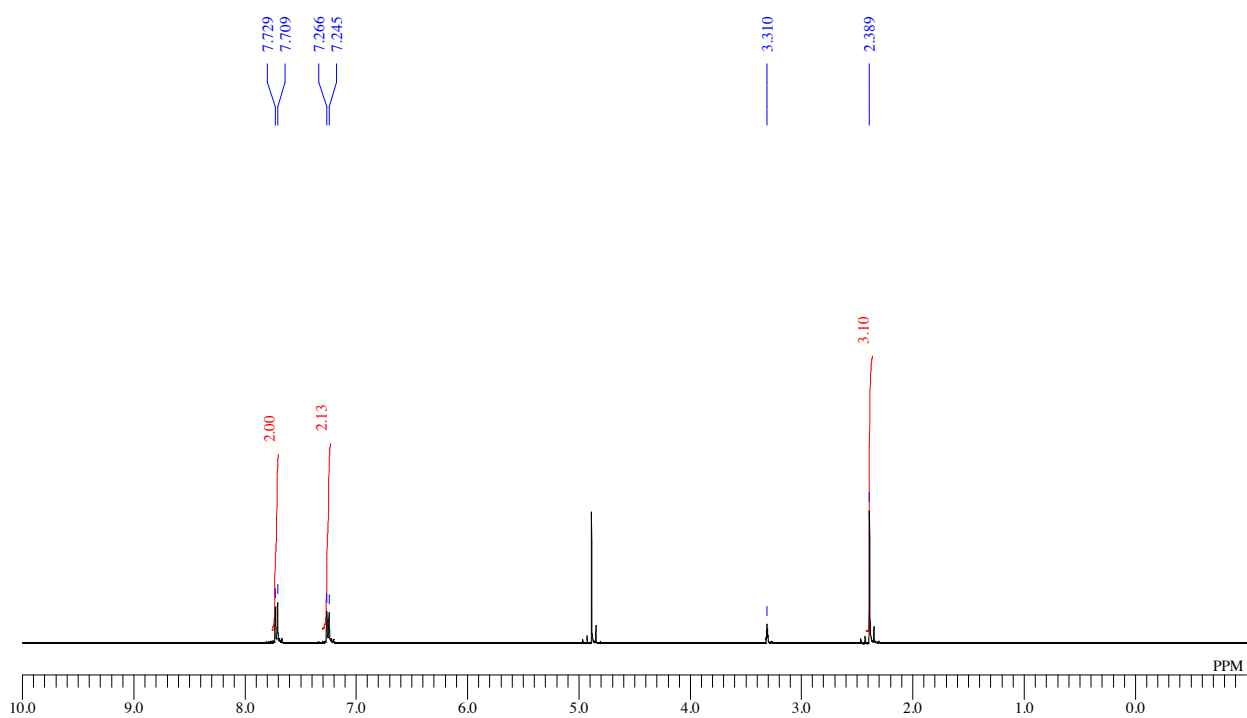


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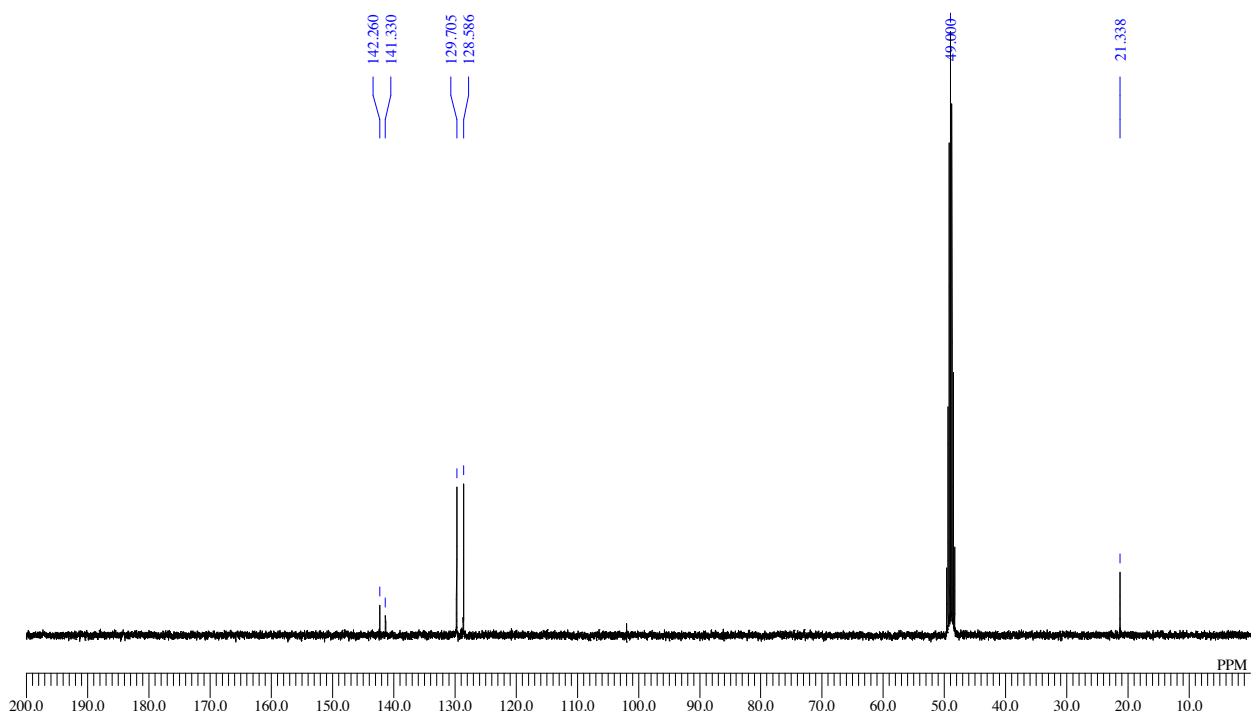


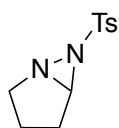
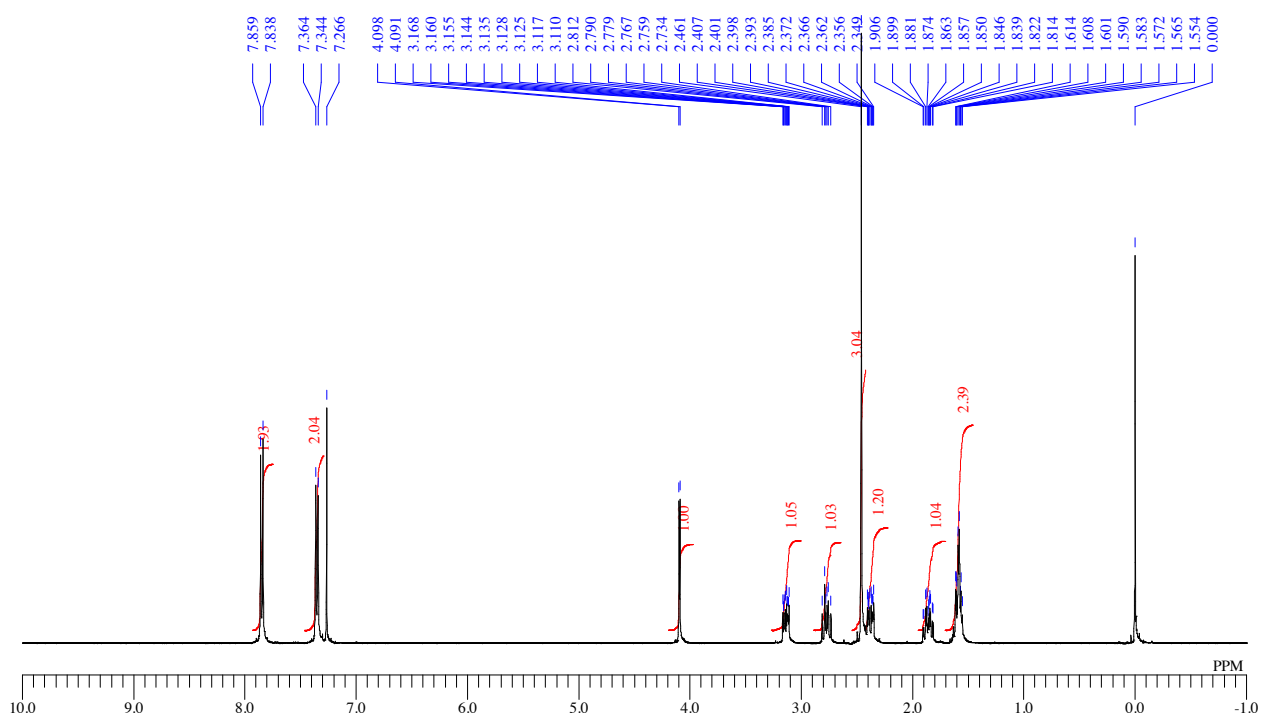
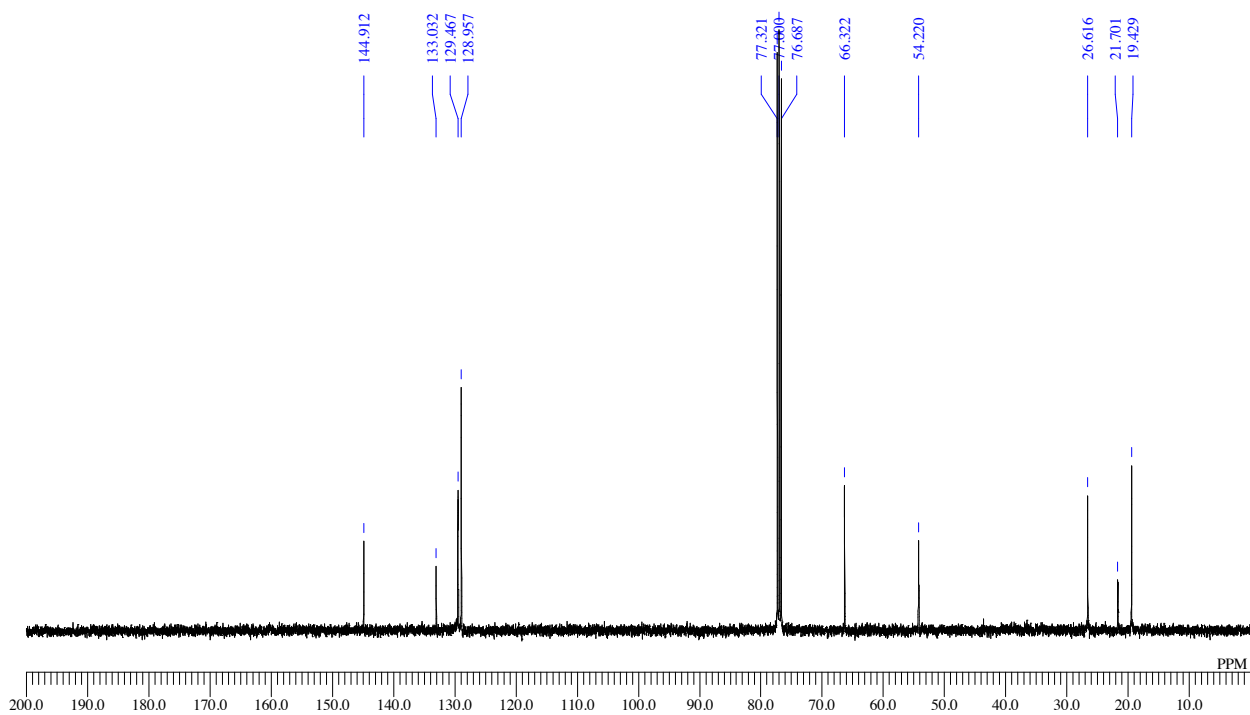


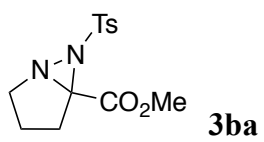
^1H NMR: (400 MHz, CD_3OD)



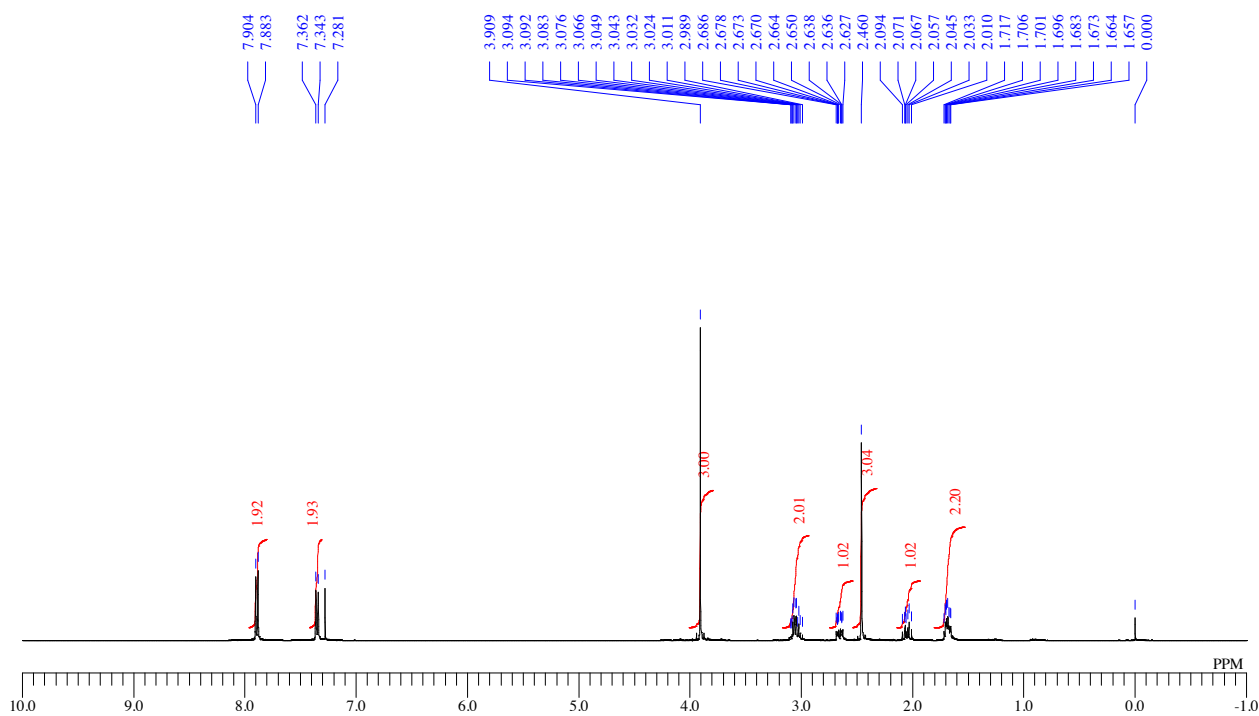
^{13}C NMR: (100 MHz, CD_3OD)



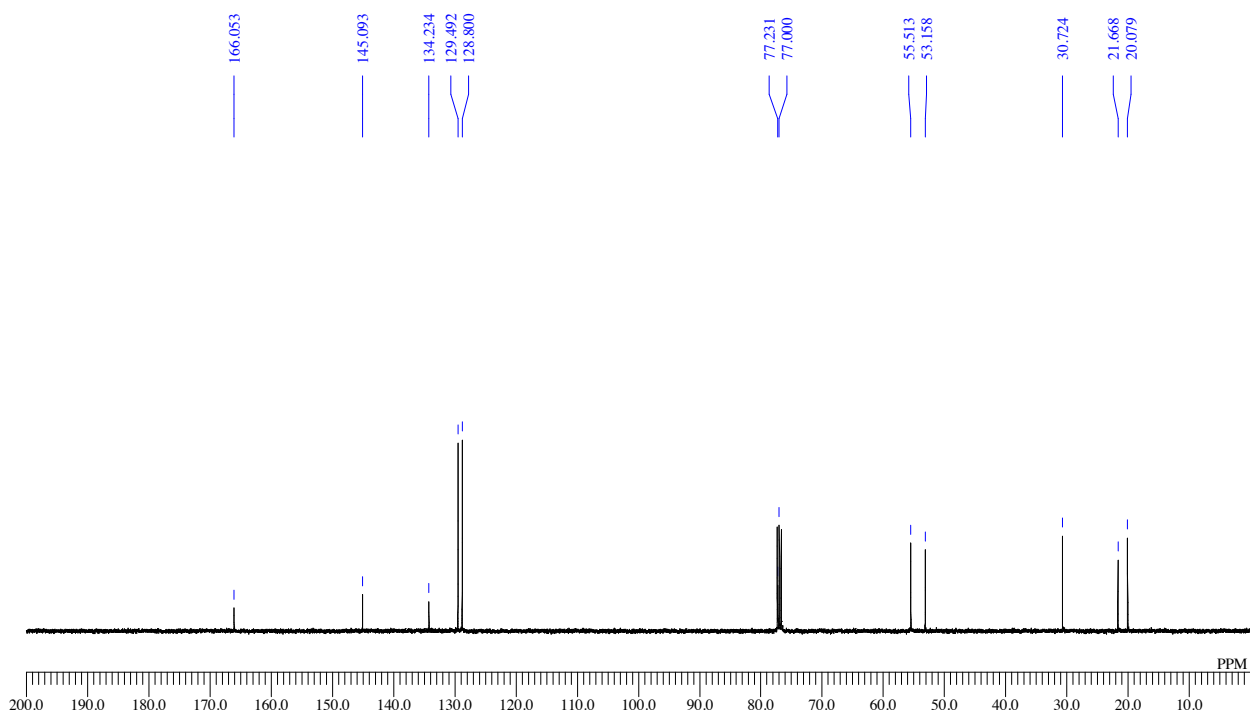
**3aa**¹H NMR: (400 MHz, CDCl₃)¹³C NMR: (100 MHz, CDCl₃)

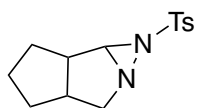


¹H NMR: (400 MHz, CDCl₃)



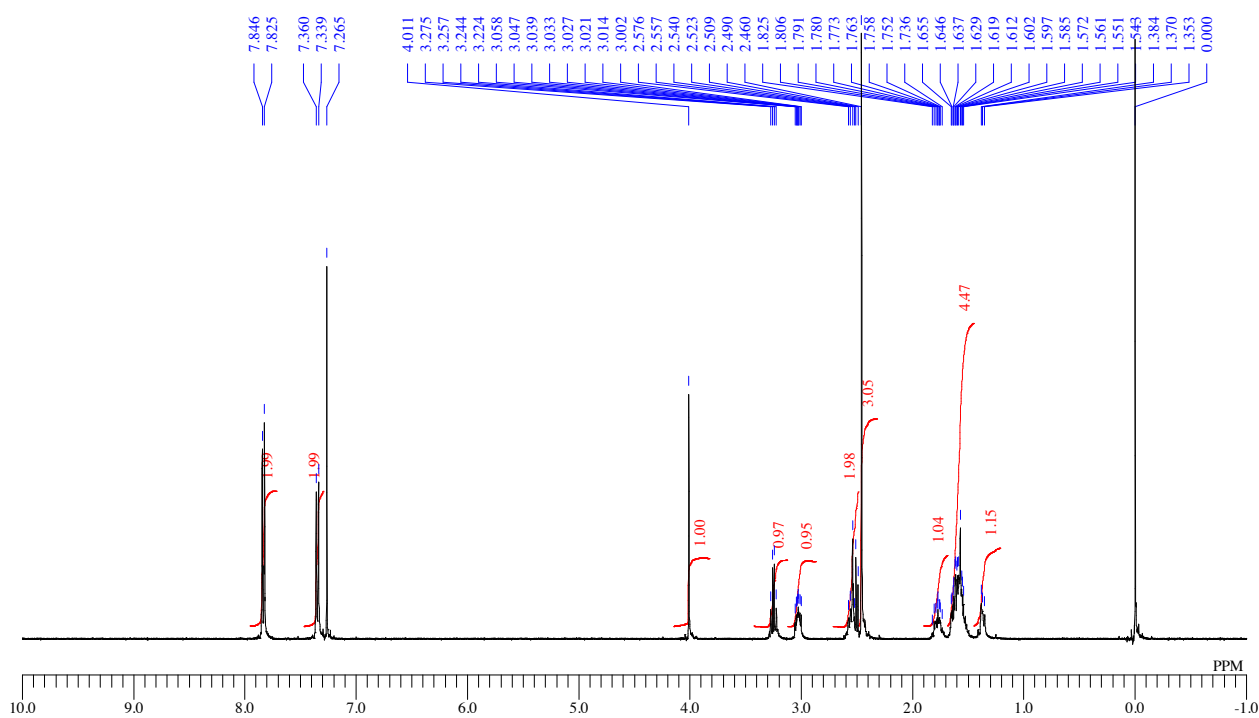
¹³C NMR: (100 MHz, CDCl₃)



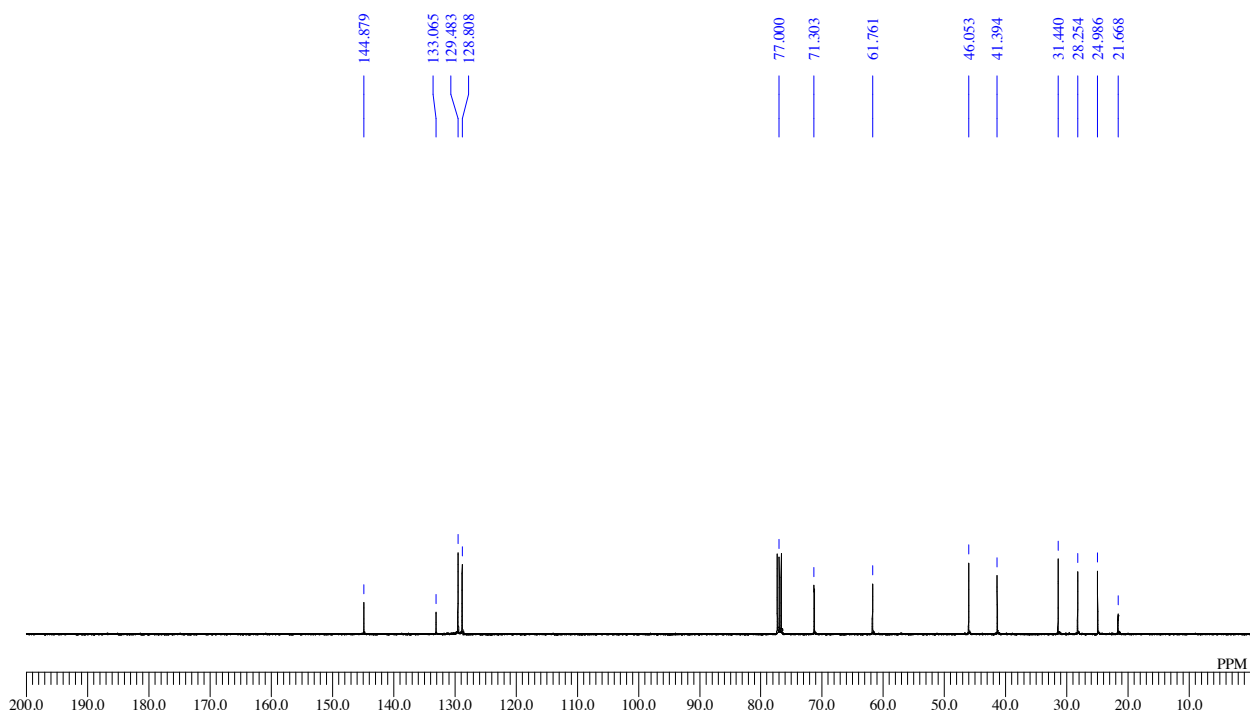


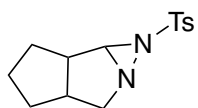
3ca (major isomer)

$^1\text{H NMR}$: (400 MHz, CDCl_3)



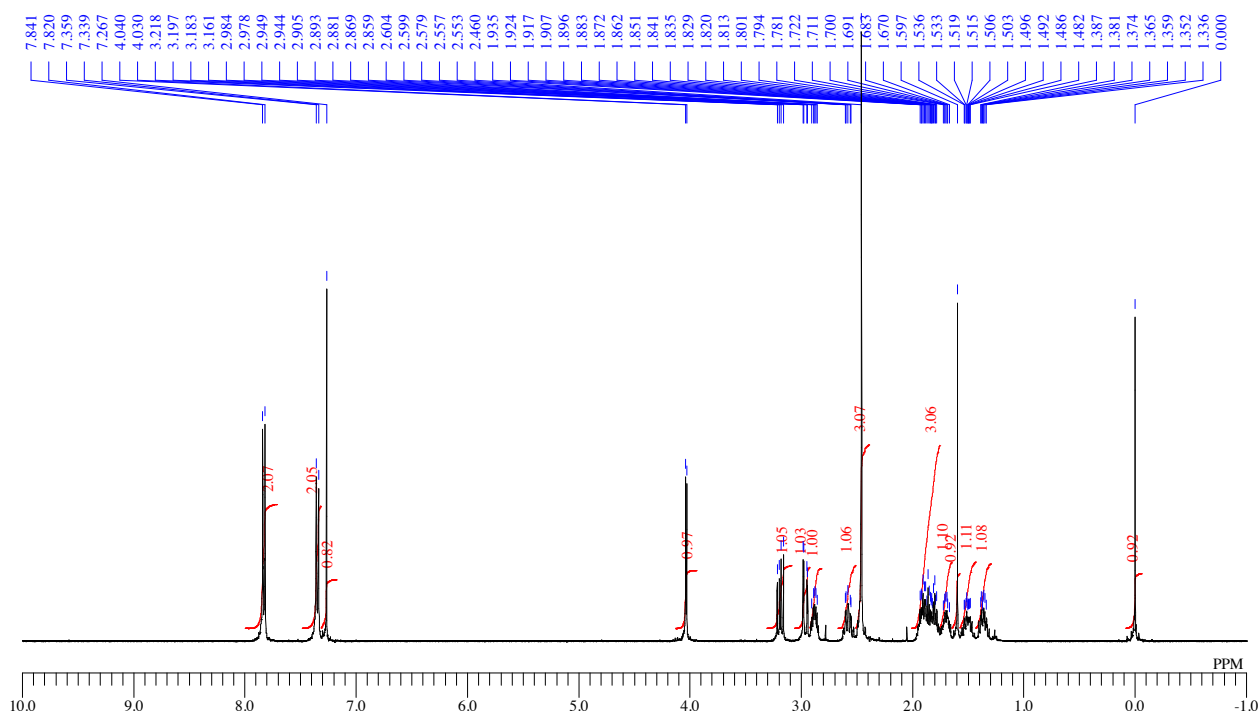
$^{13}\text{C NMR}$: (100 MHz, CDCl_3)



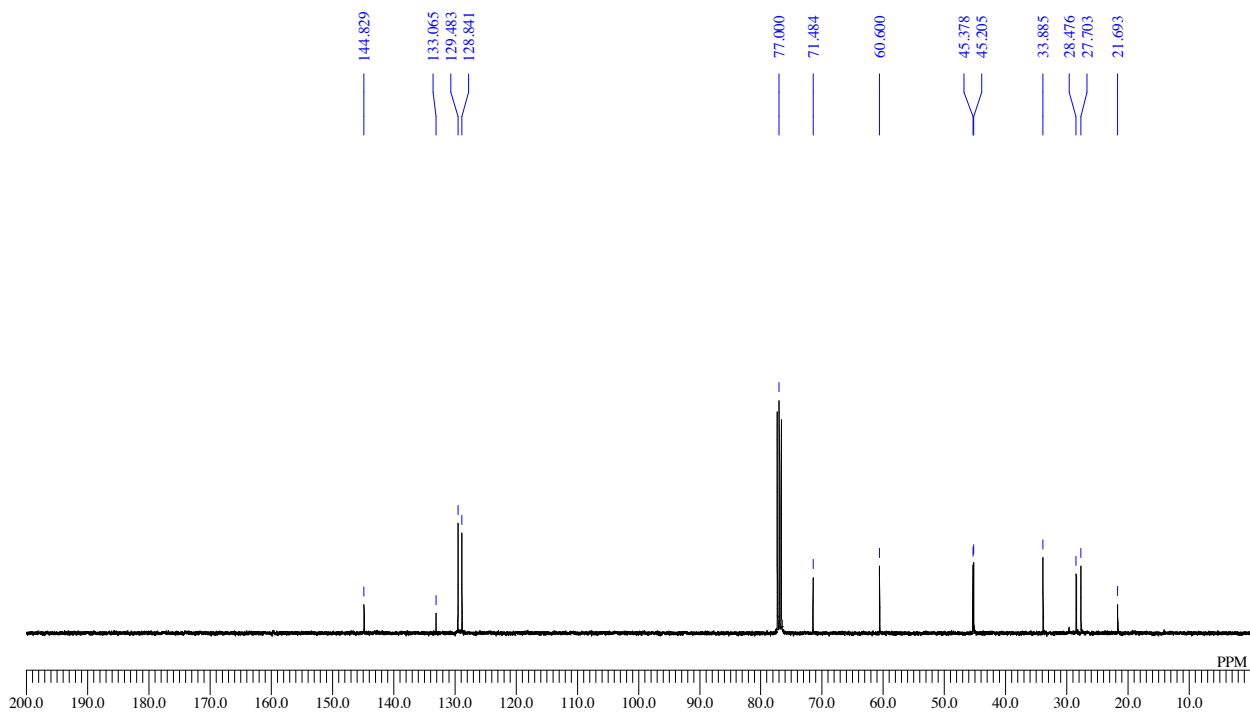


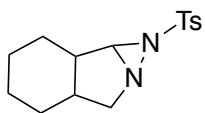
3ca (minor isomer)

$^1\text{H NMR}$: (400 MHz, CDCl_3)



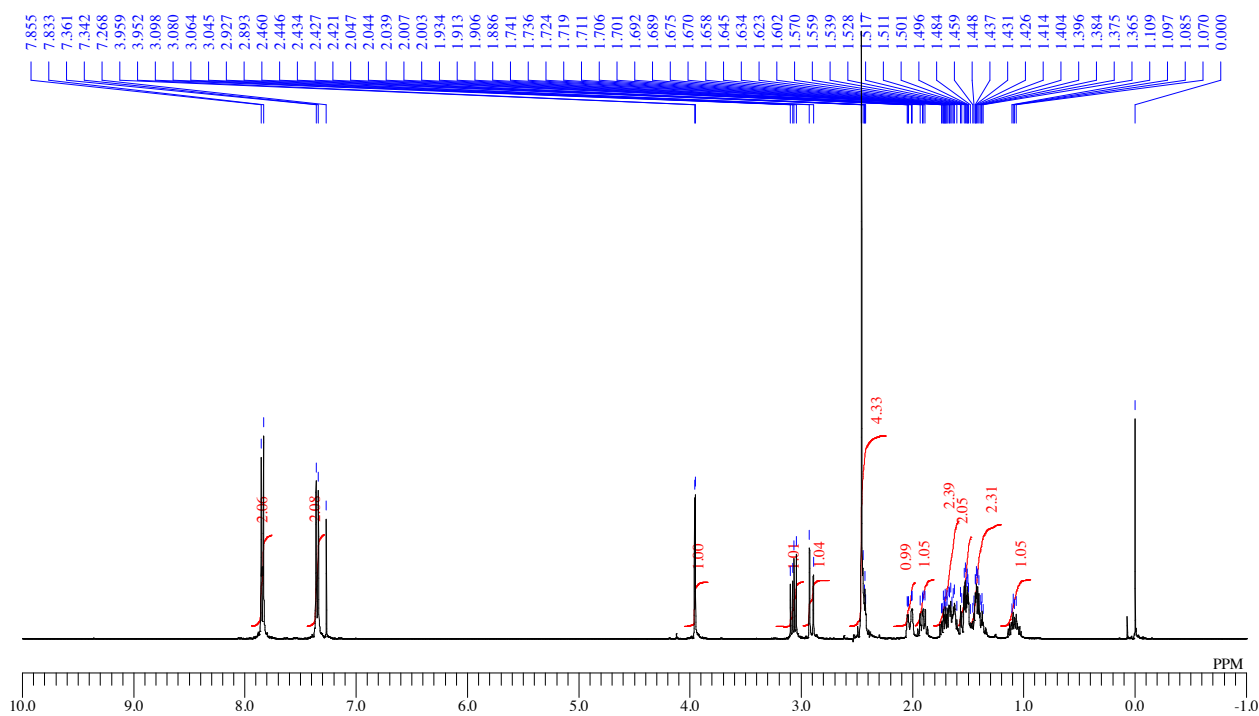
$^{13}\text{C NMR}$: (100 MHz, CDCl_3)



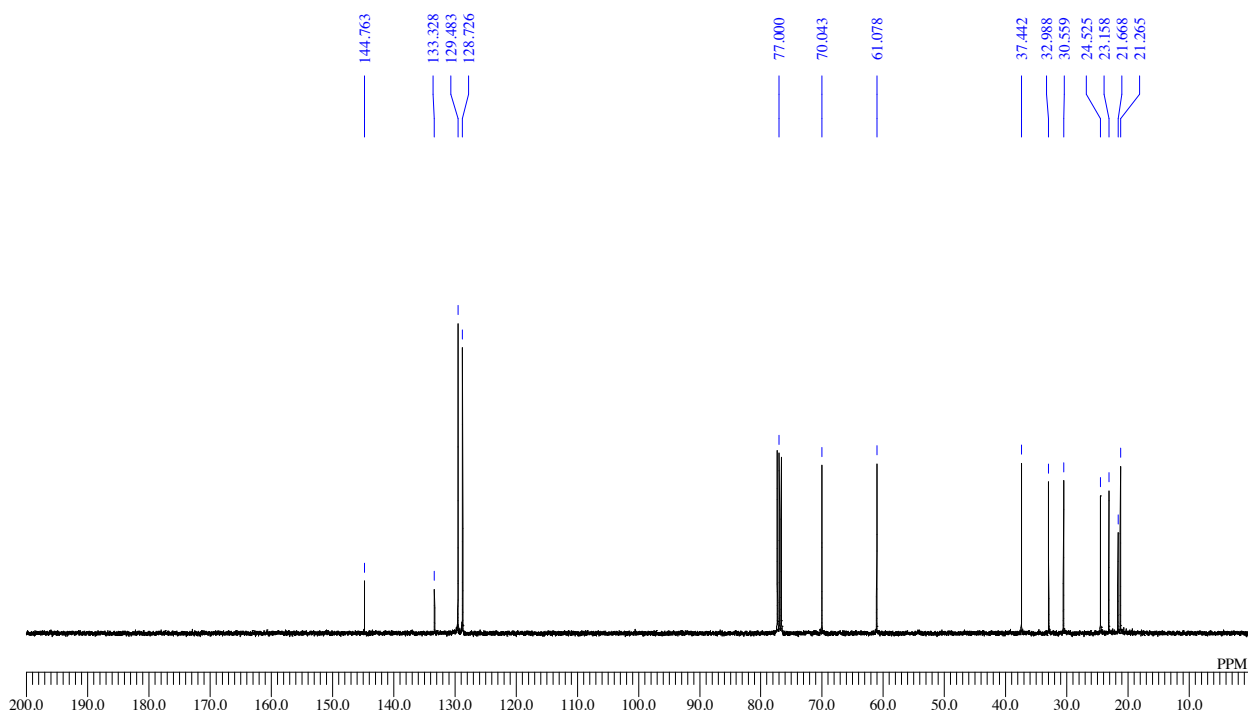


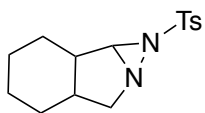
3da (major isomer)

$^1\text{H NMR}$: (400 MHz, CDCl_3)



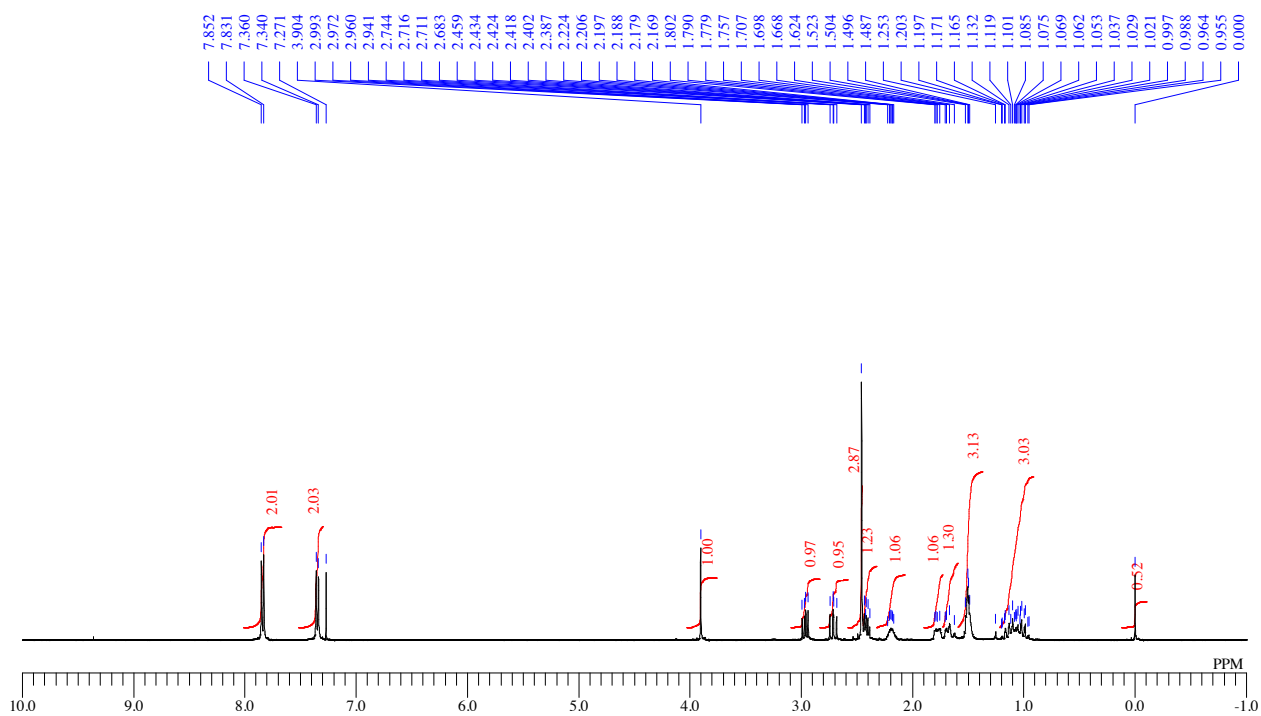
$^{13}\text{C NMR}$: (100 MHz, CDCl_3)



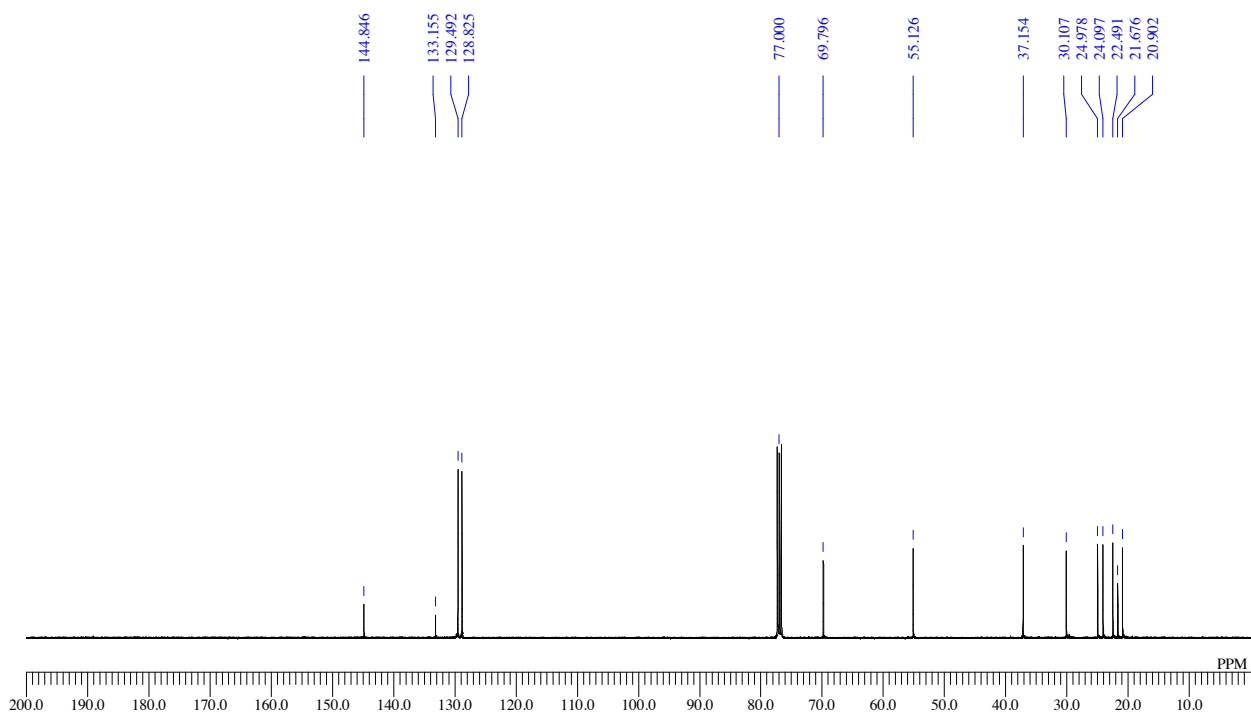


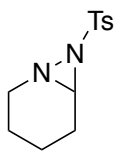
3da (minor isomer)

^1H NMR: (400 MHz, CDCl_3)



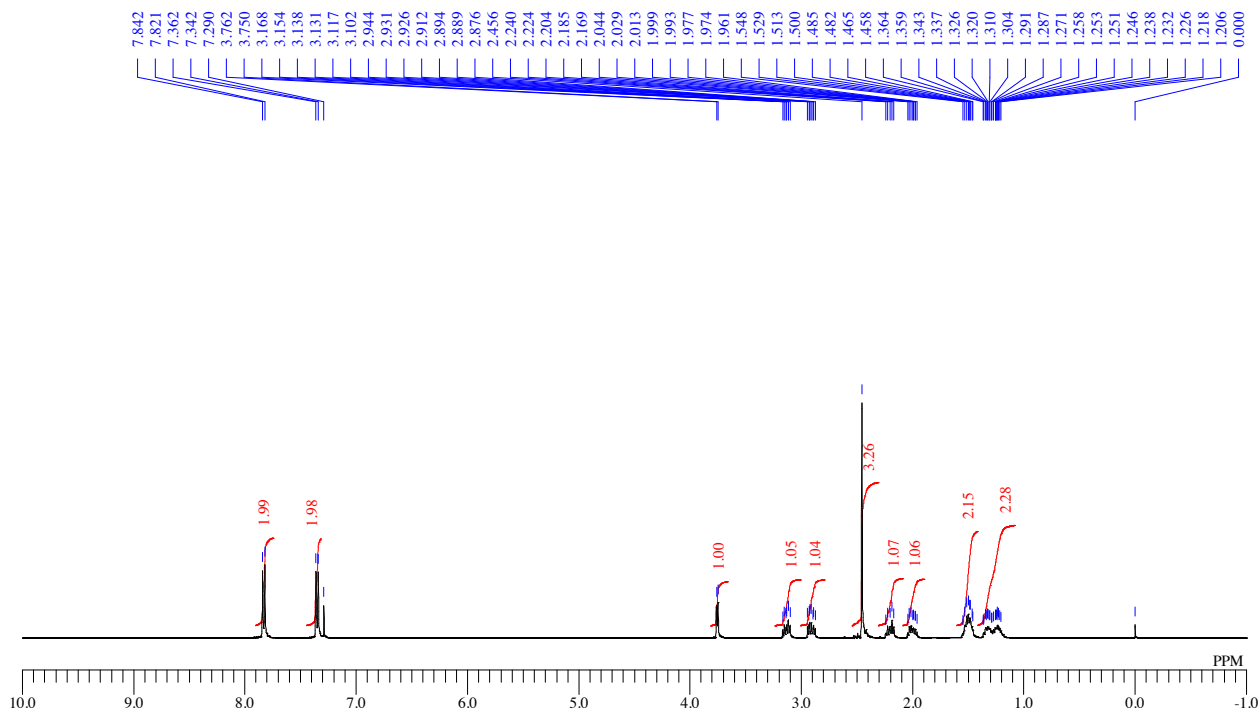
^{13}C NMR: (100 MHz, CDCl_3)



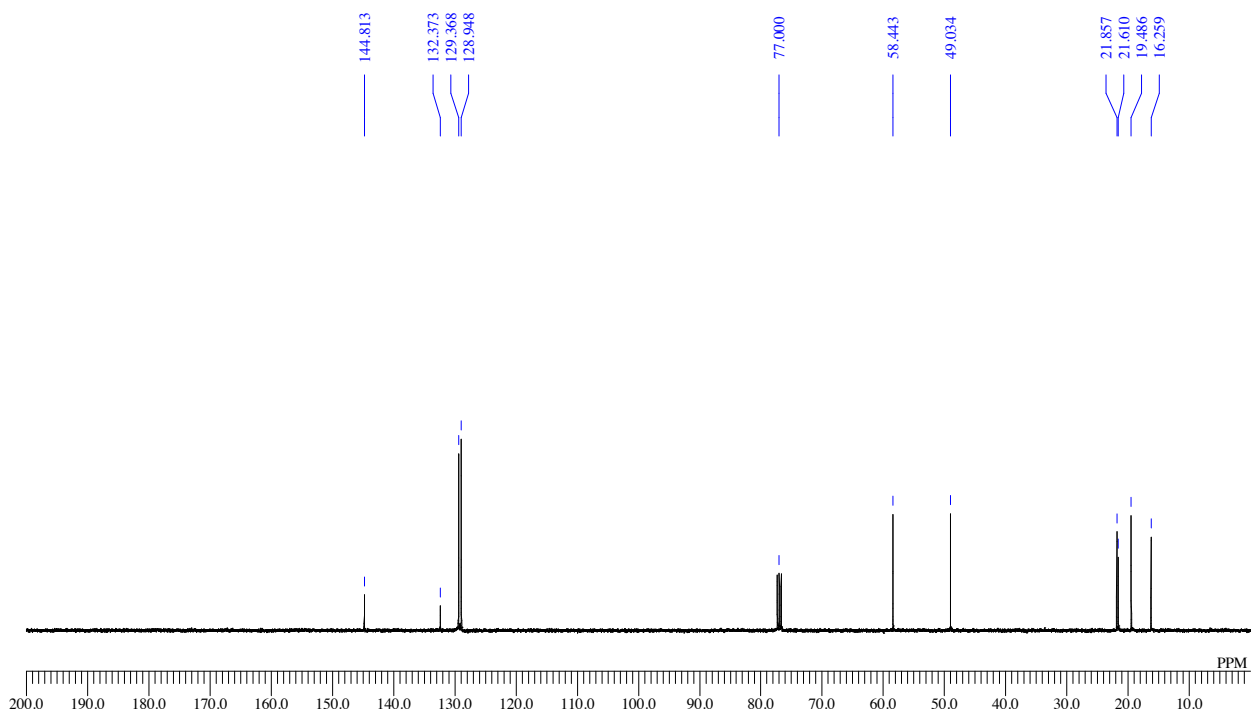


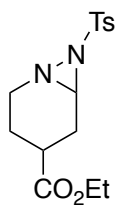
3ea

^1H NMR: (400 MHz, CDCl_3)



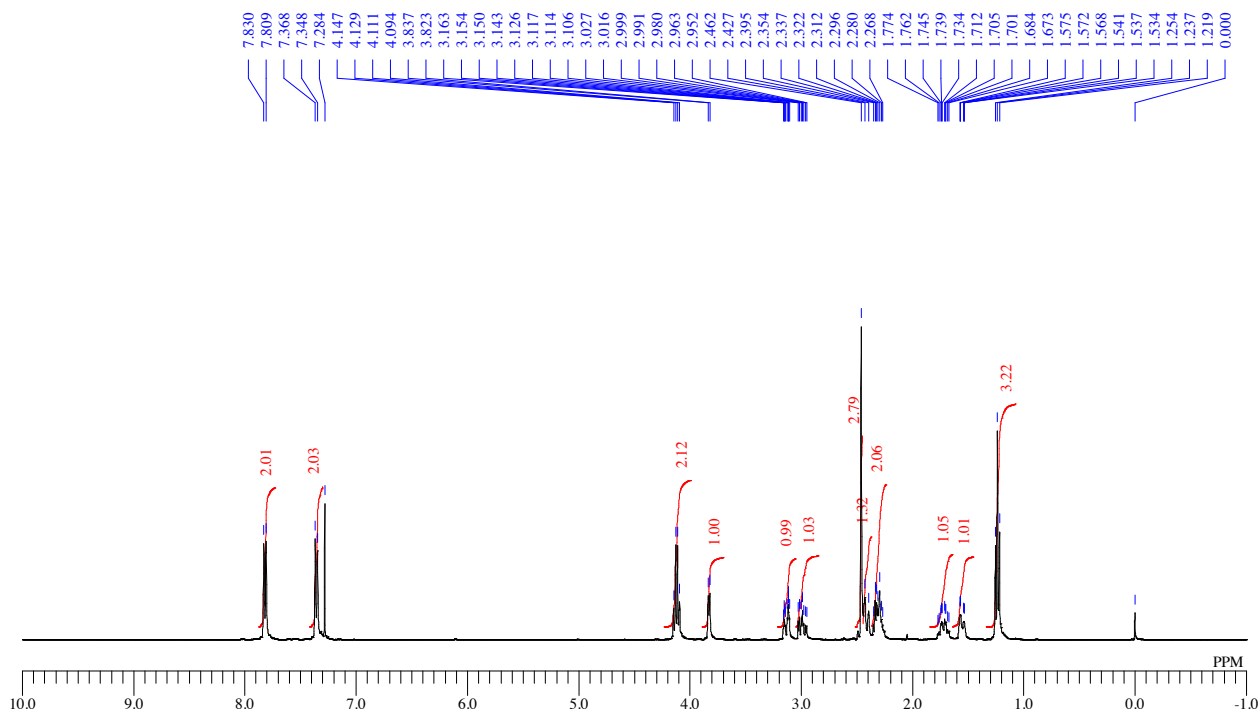
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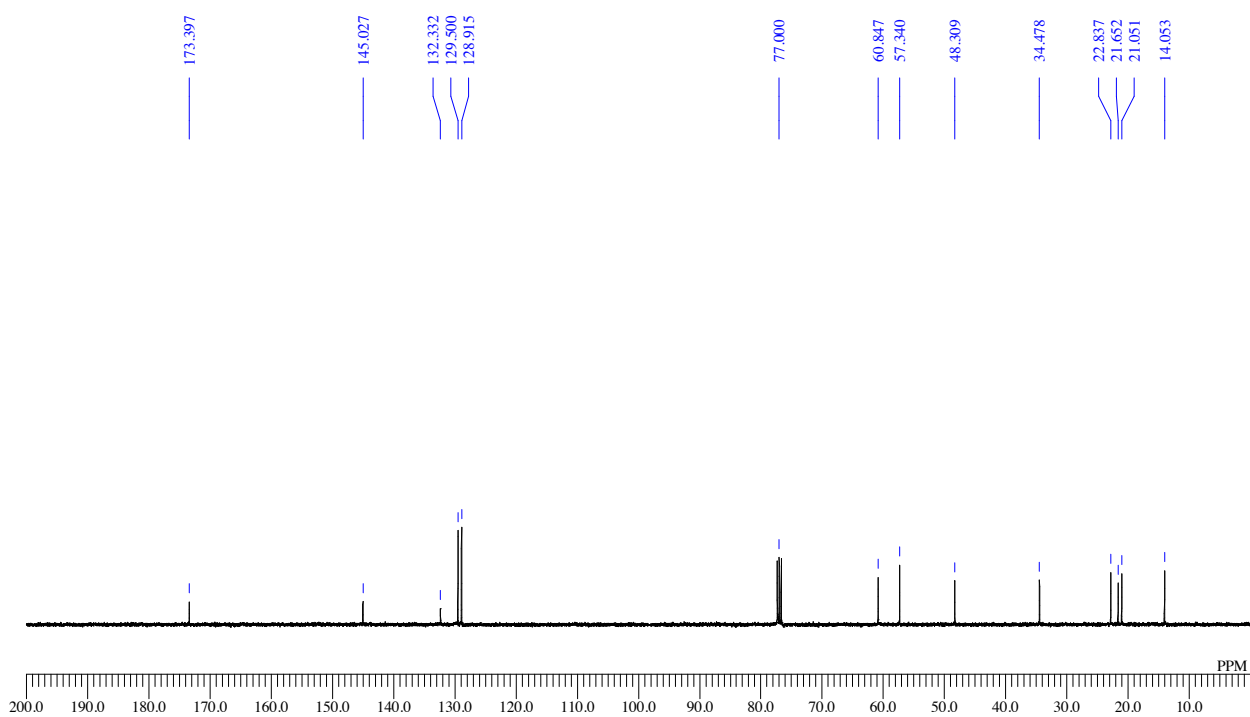


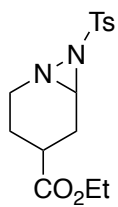
3fa (major isomer)

$^1\text{H NMR}$: (400 MHz, CDCl_3)



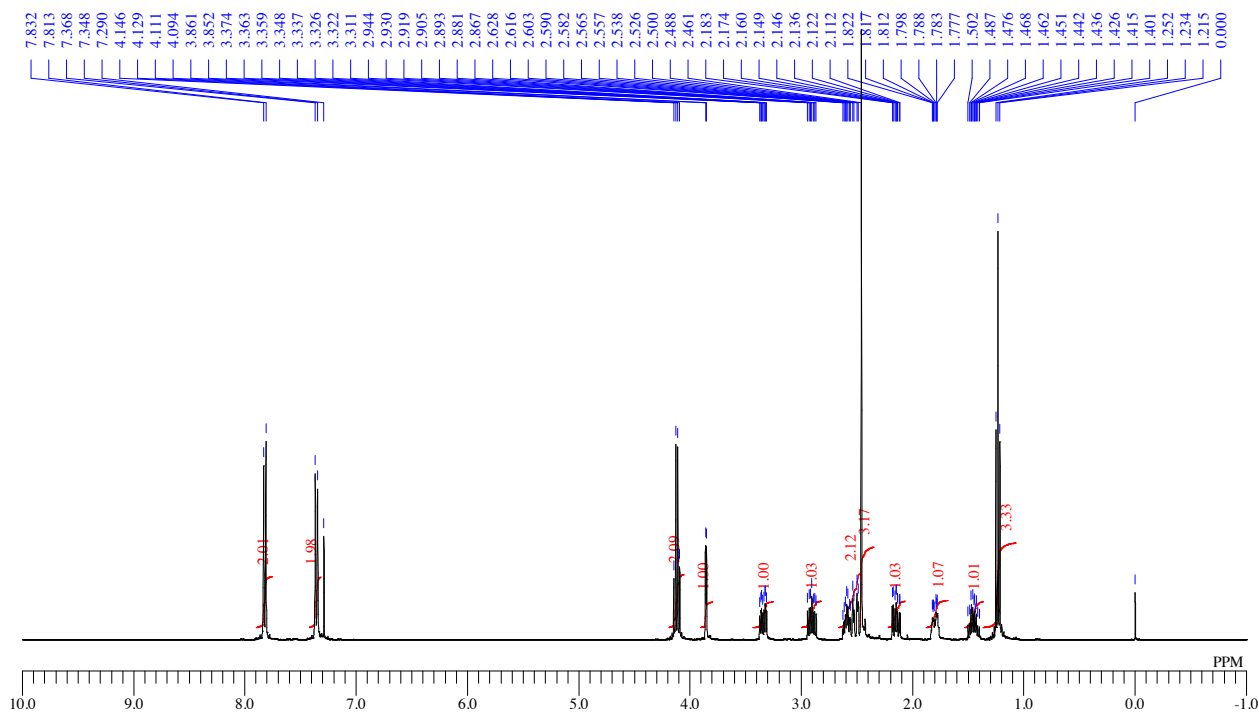
$^{13}\text{C NMR}$: (100 MHz, CDCl_3)



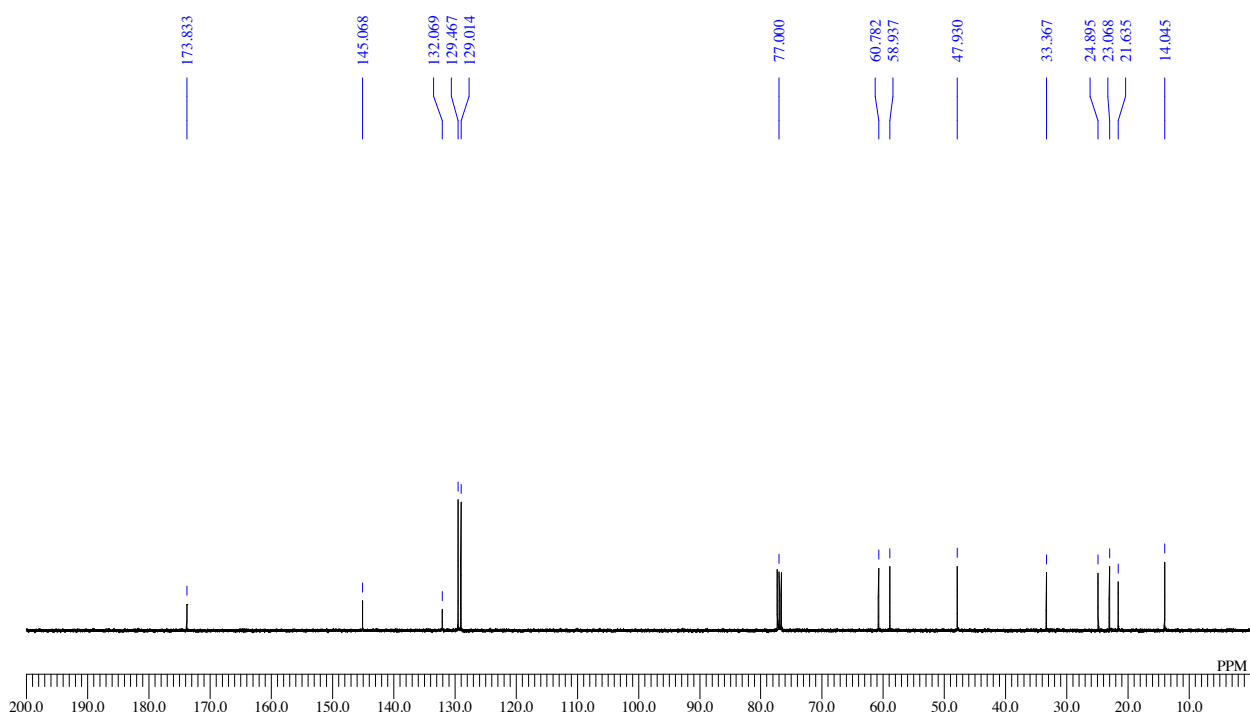


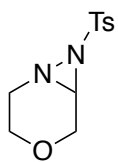
3fa (minor isomer)

$^1\text{H NMR}$: (400 MHz, CDCl_3)



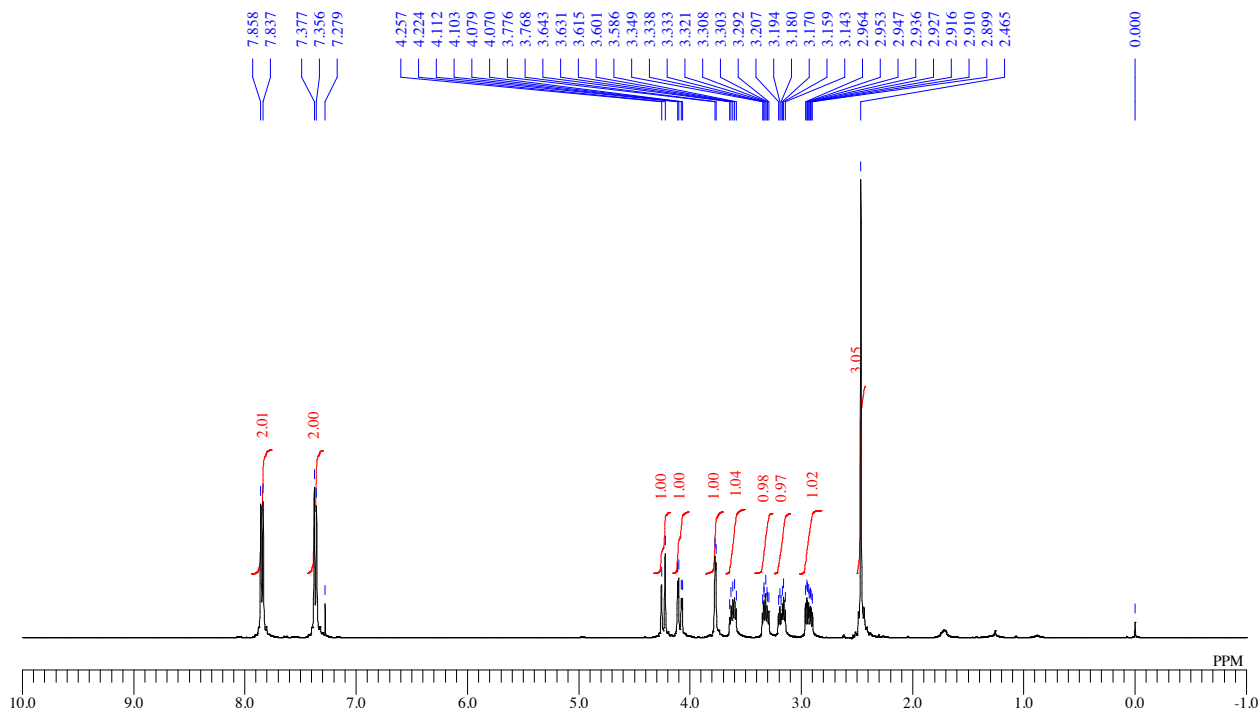
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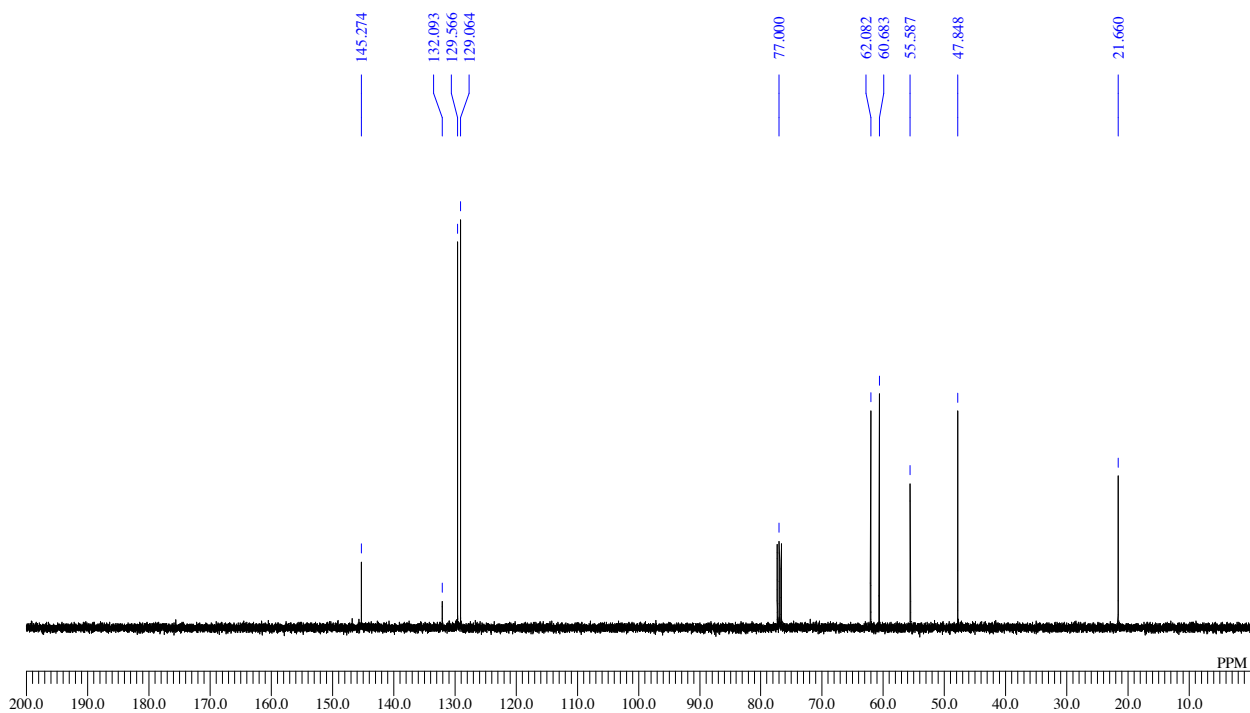


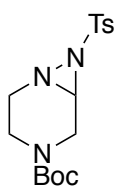
3ga

^1H NMR: (400 MHz, CDCl_3)



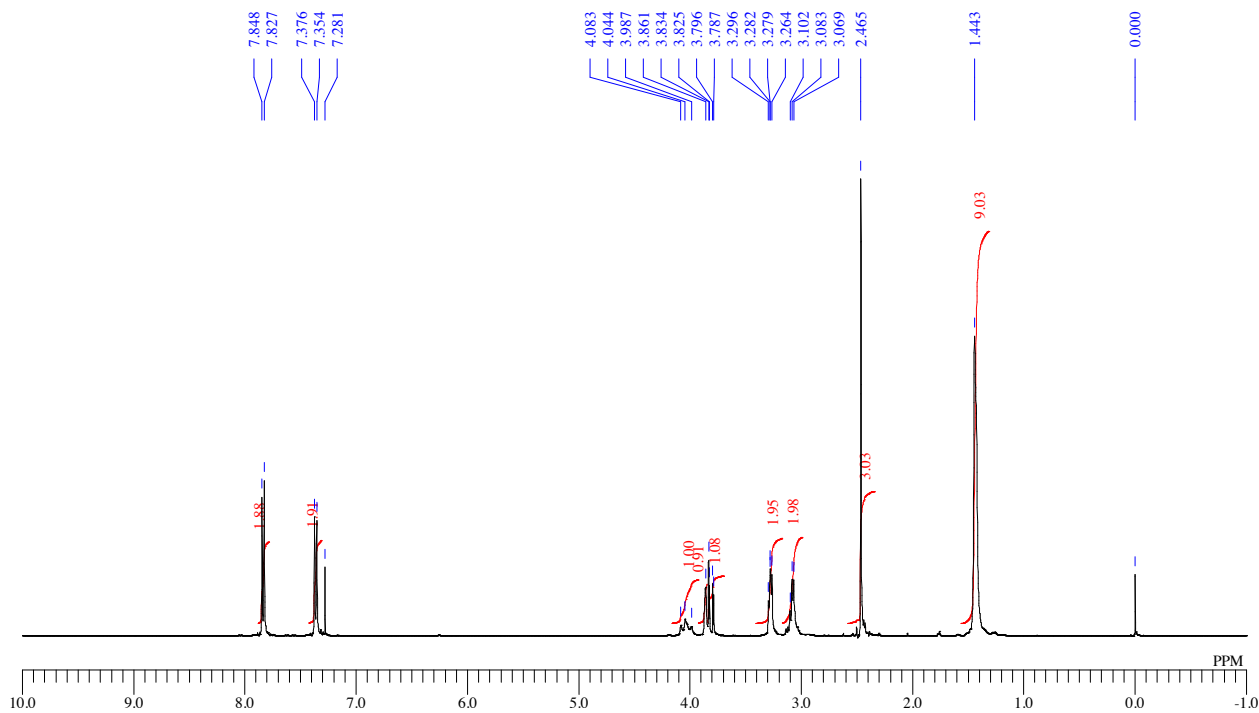
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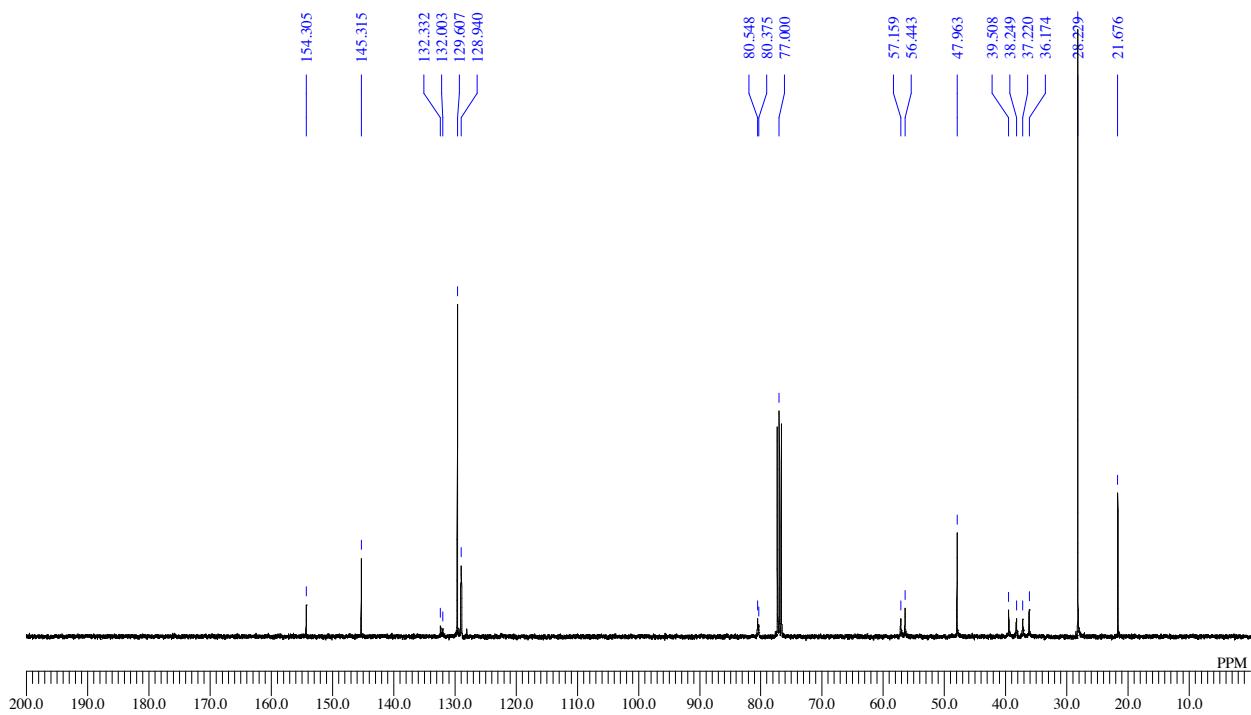


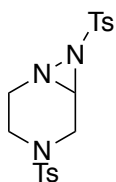
3ha

$^1\text{H NMR}$: (400 MHz, CDCl_3)



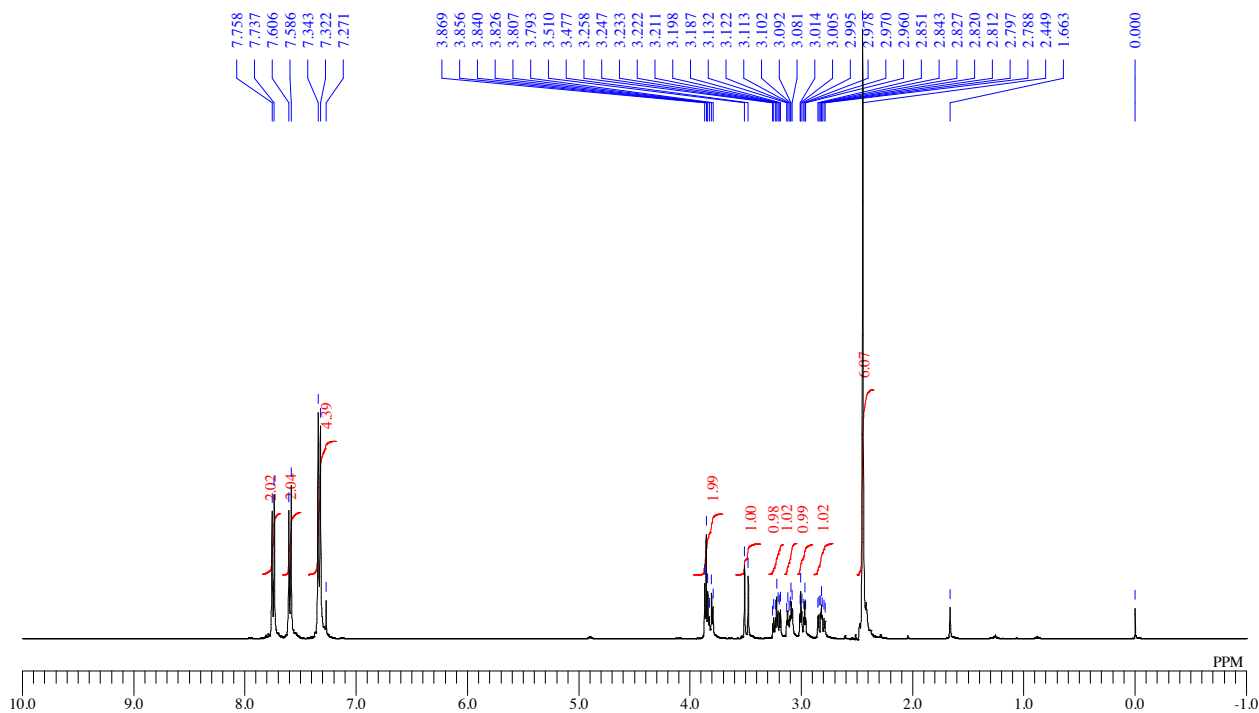
$^{13}\text{C NMR}$: (100 MHz, CDCl_3)



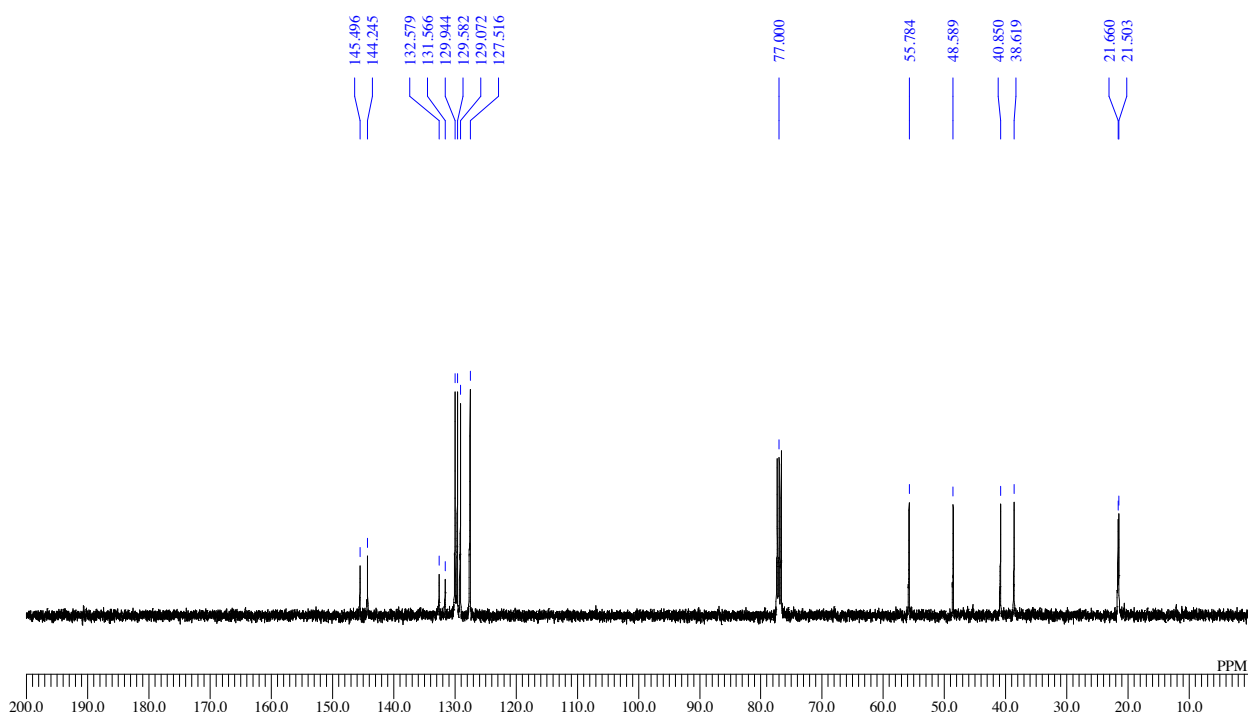


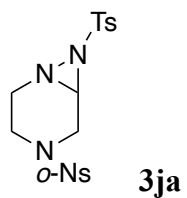
3ia

^1H NMR: (400 MHz, CDCl_3)

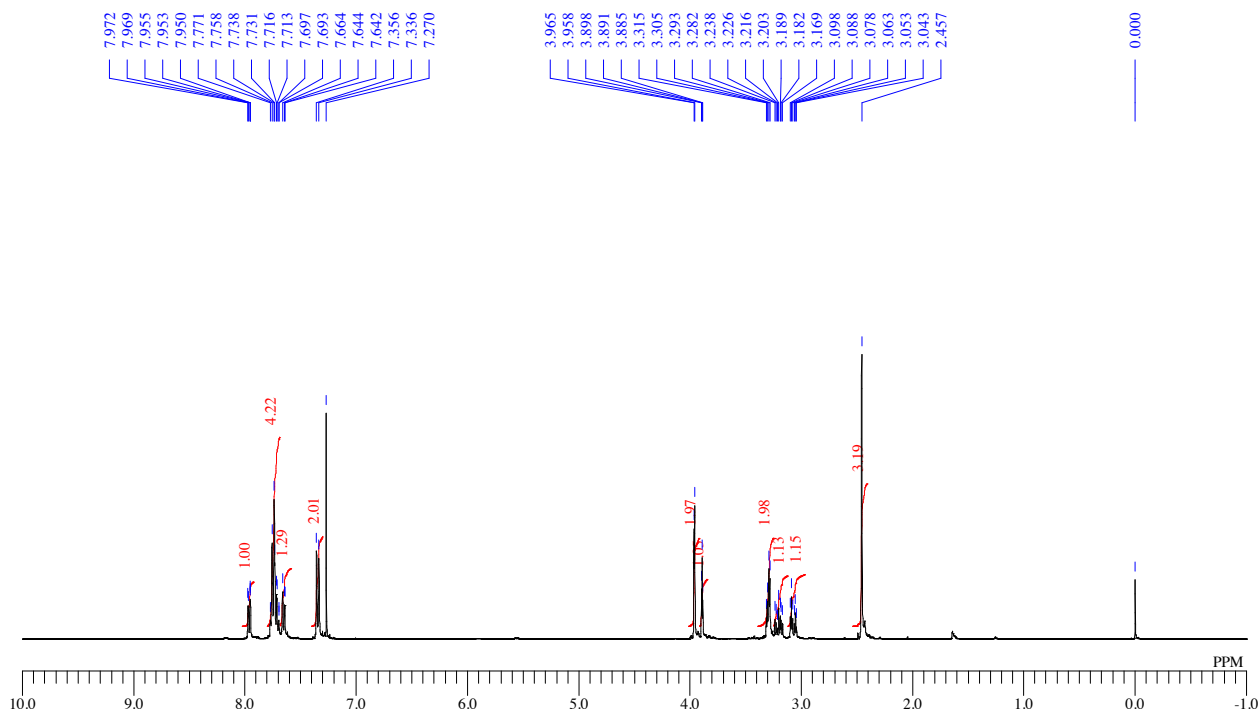


^{13}C NMR: (100 MHz, CDCl_3)

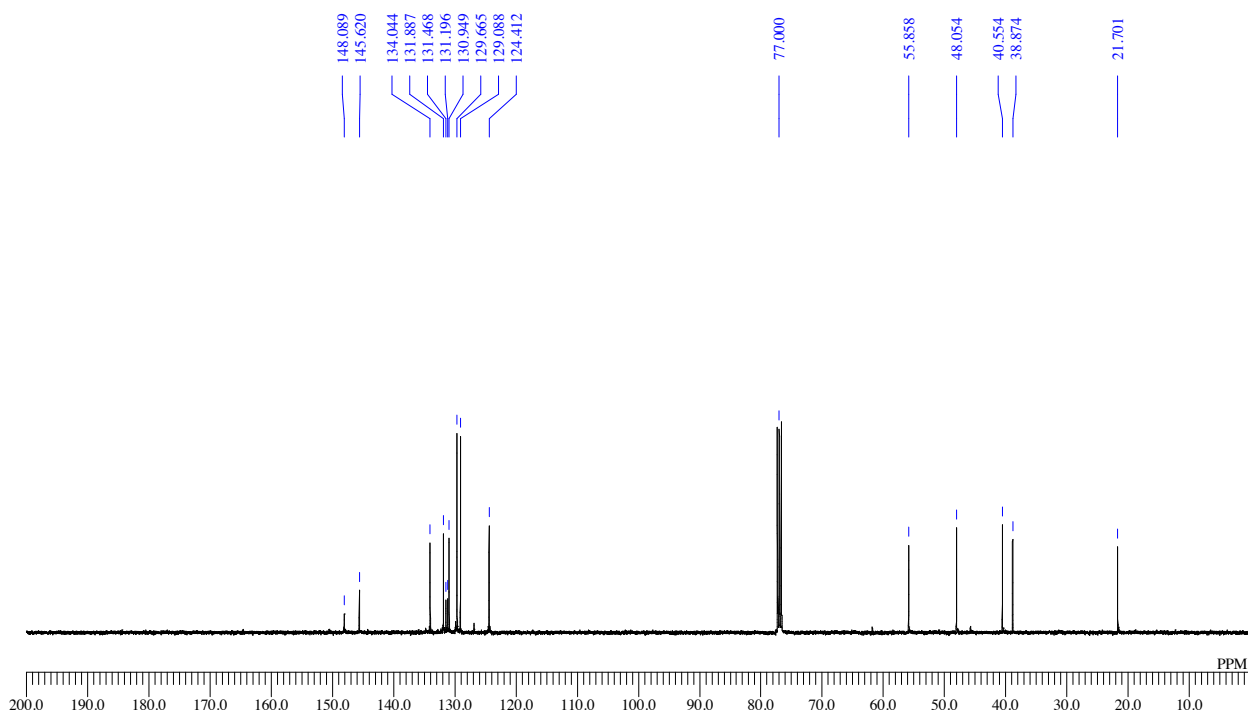


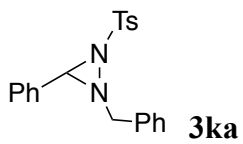


¹H NMR: (400 MHz, CDCl₃)

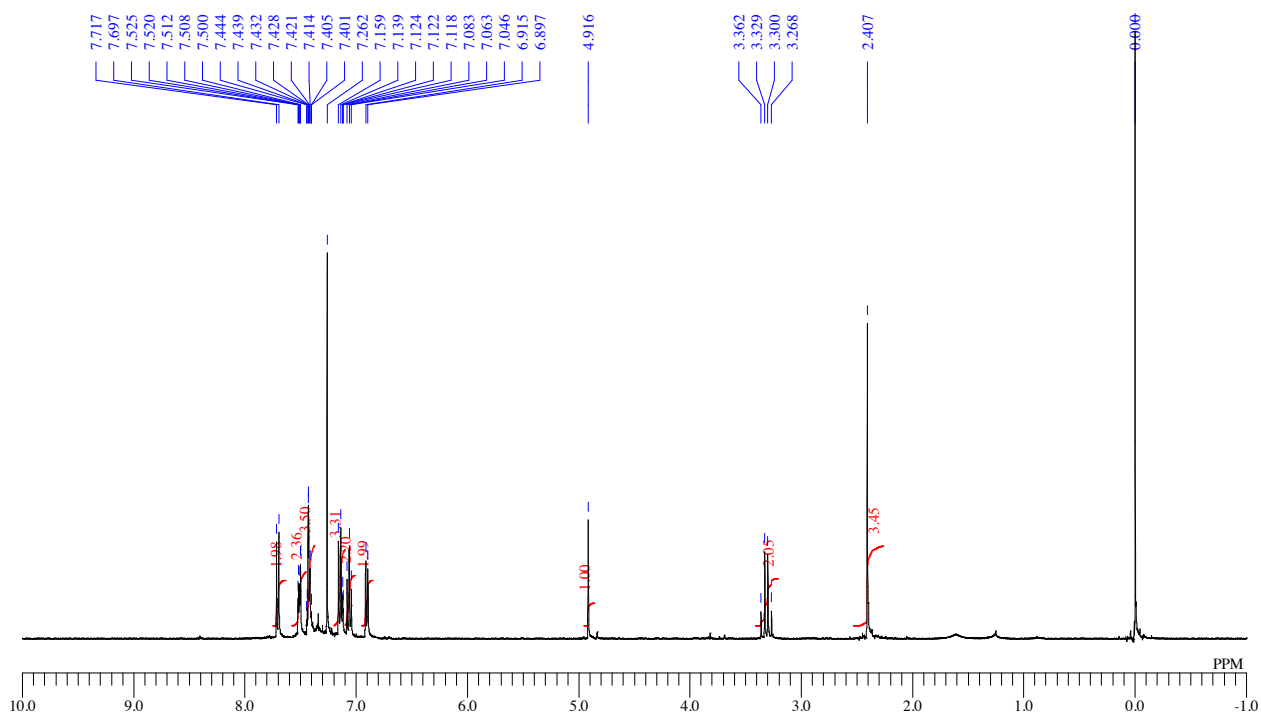


¹³C NMR: (100 MHz, CDCl₃)

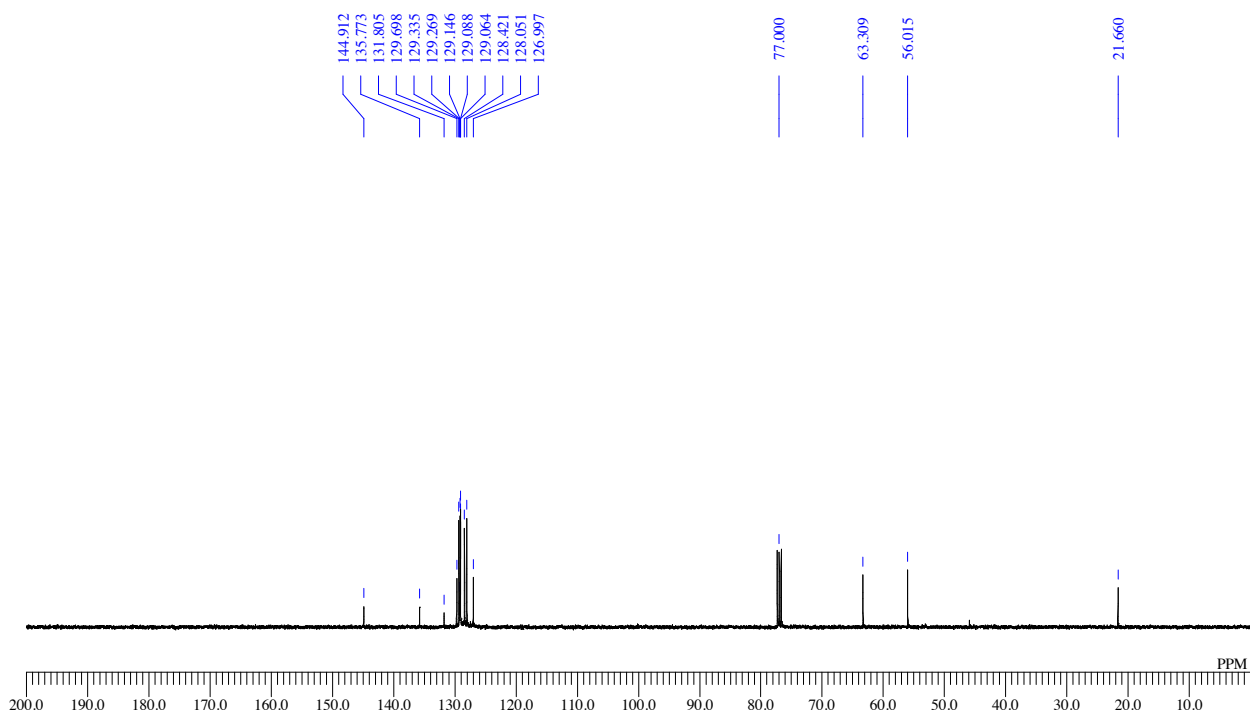


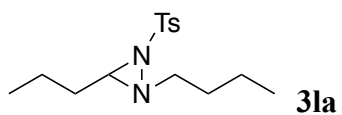


^1H NMR: (400 MHz, CDCl_3)

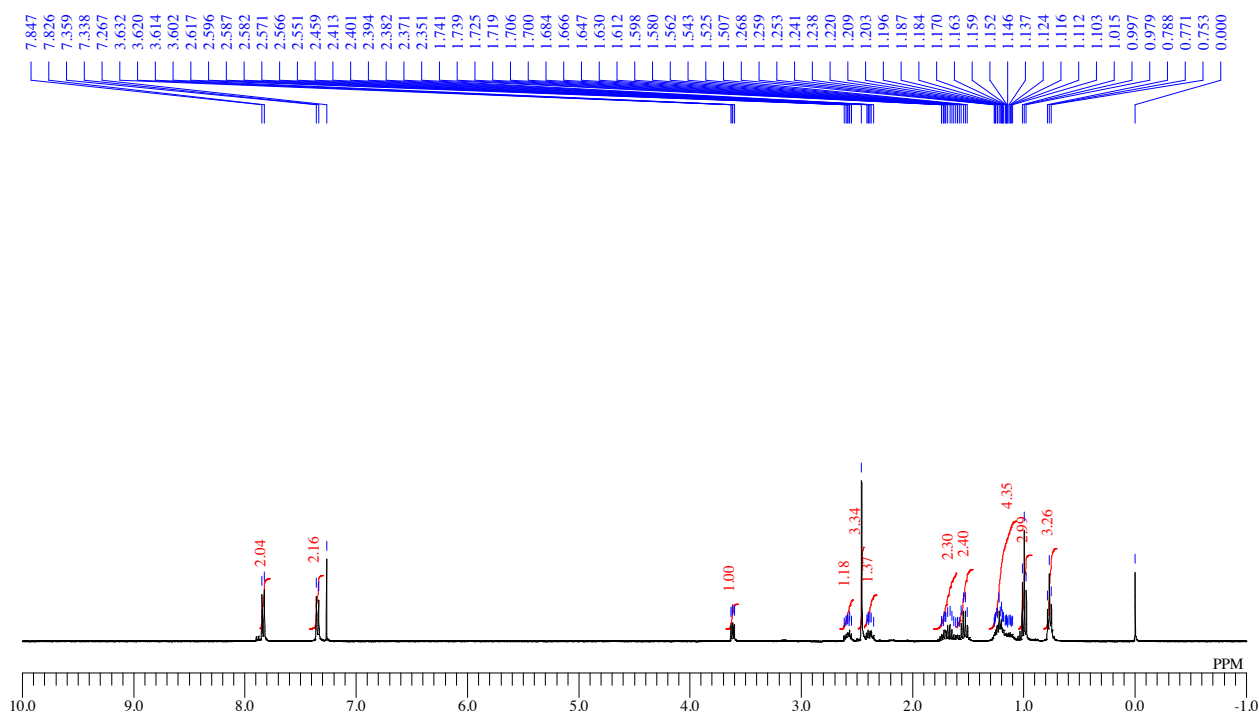


^{13}C NMR: (100 MHz, CDCl_3)

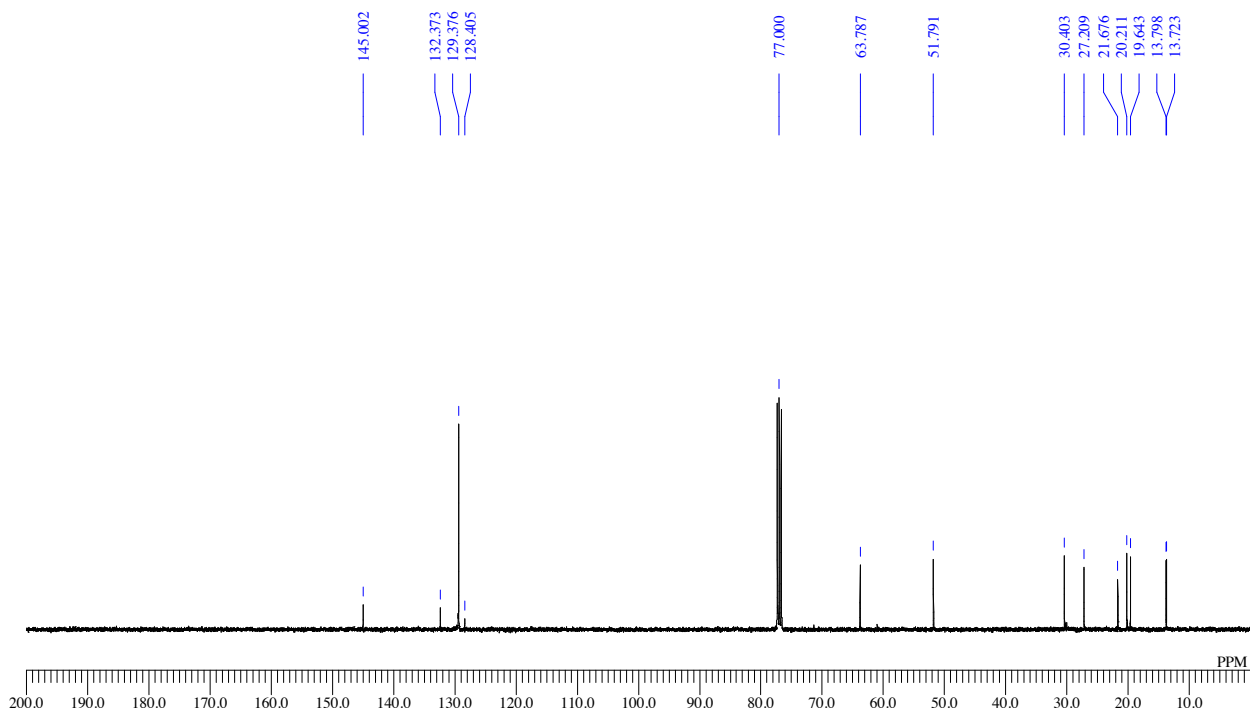


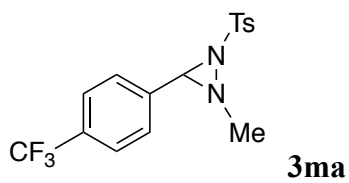


$^1\text{H NMR}$: (400 MHz, CDCl_3)

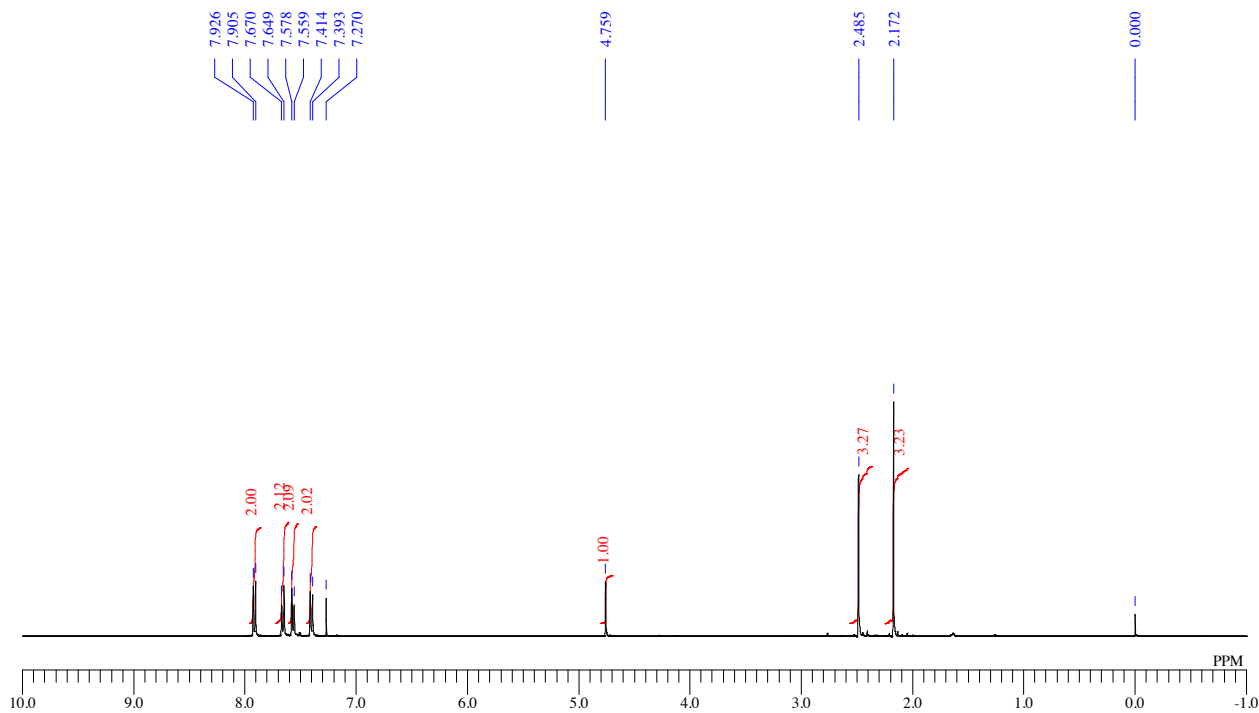


$^{13}\text{C NMR}$: (100 MHz, CDCl_3)

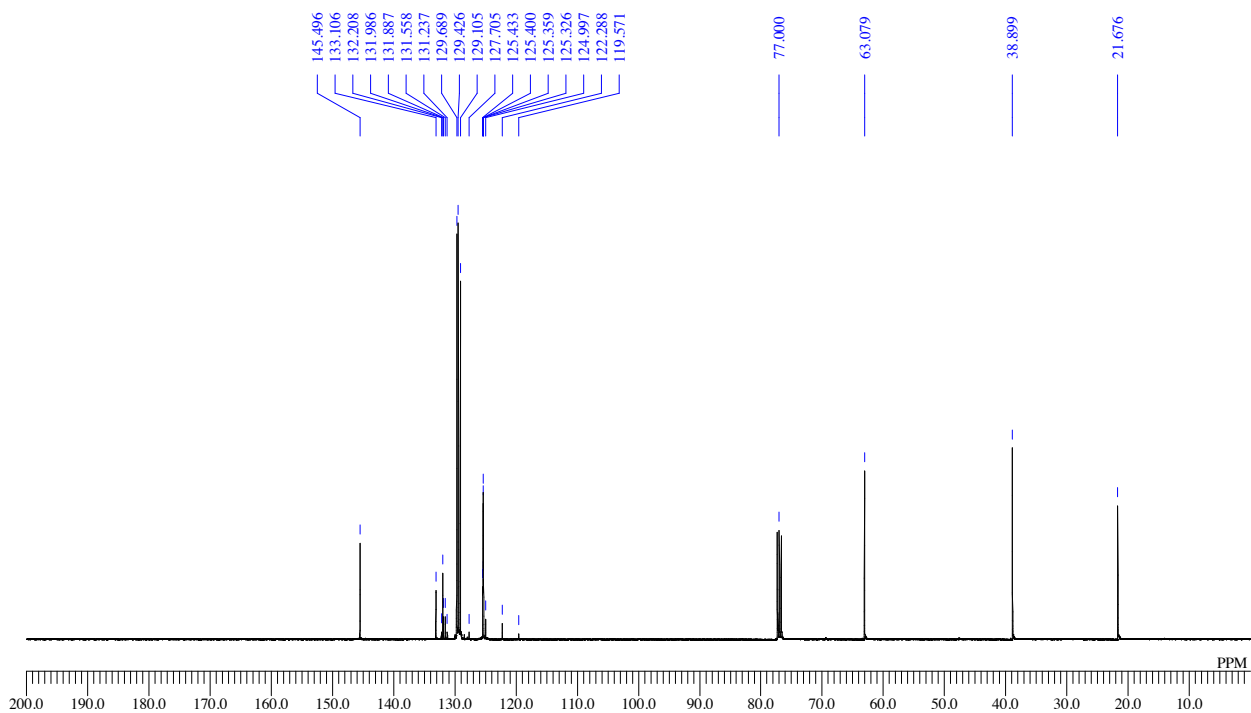




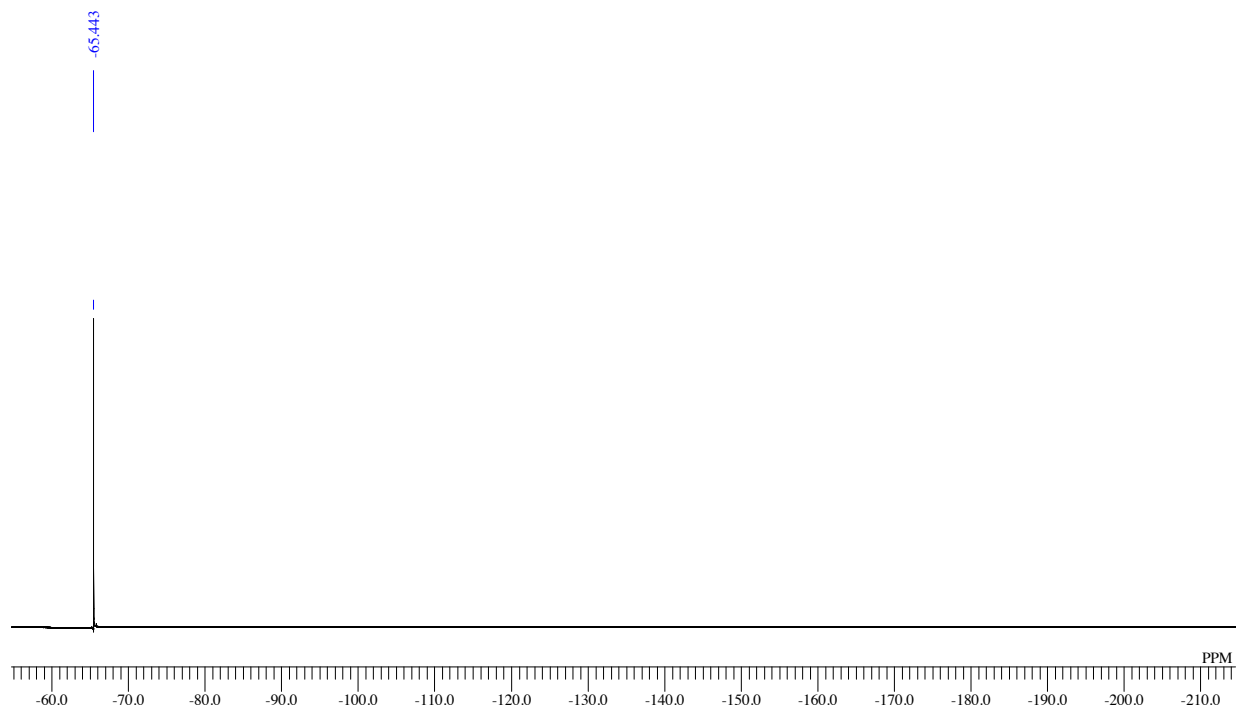
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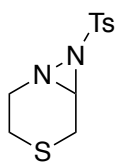


$^{13}\text{C NMR}$: (100 MHz, CDCl_3)



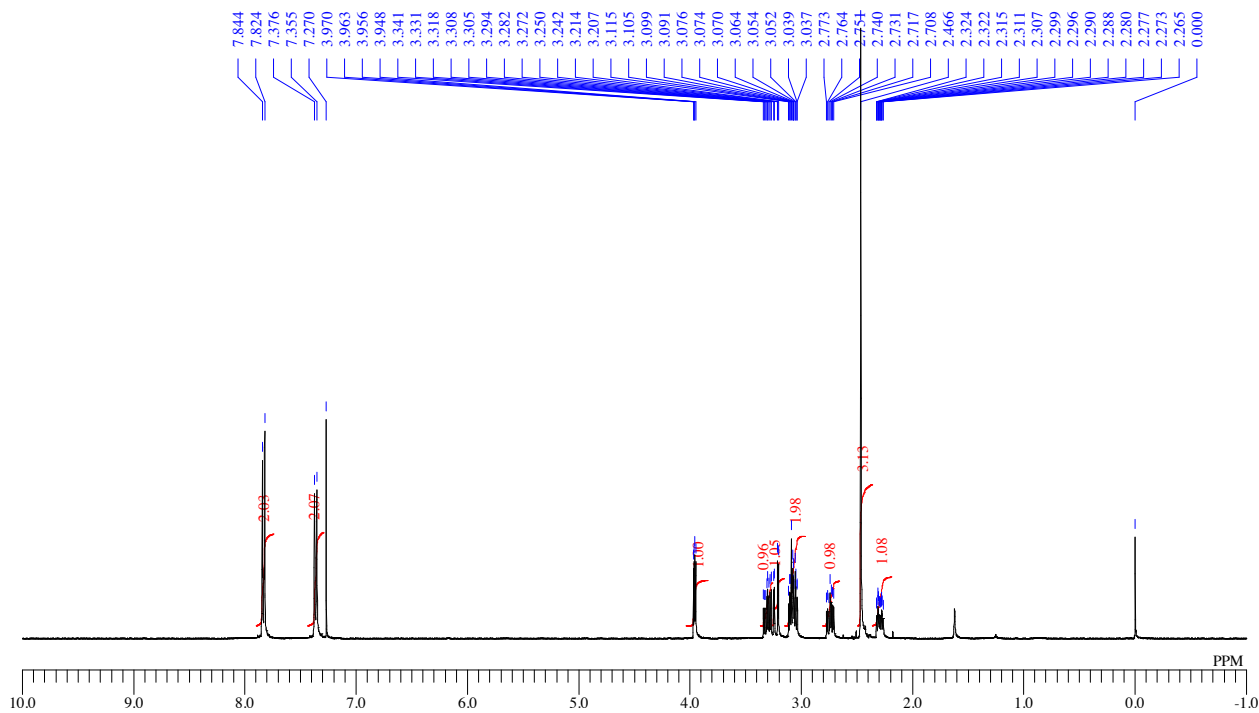
^{19}F NMR (377 MHz, CDCl_3)



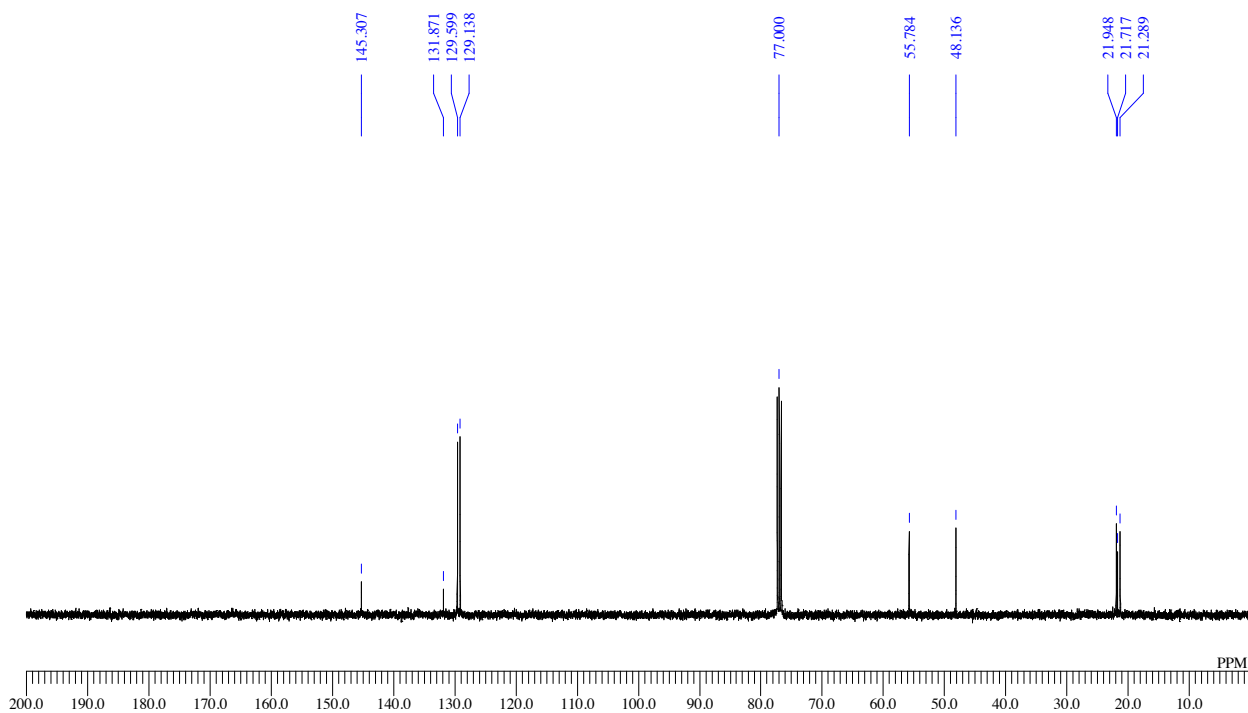


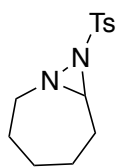
3a

^1H NMR: (400 MHz, CDCl_3)



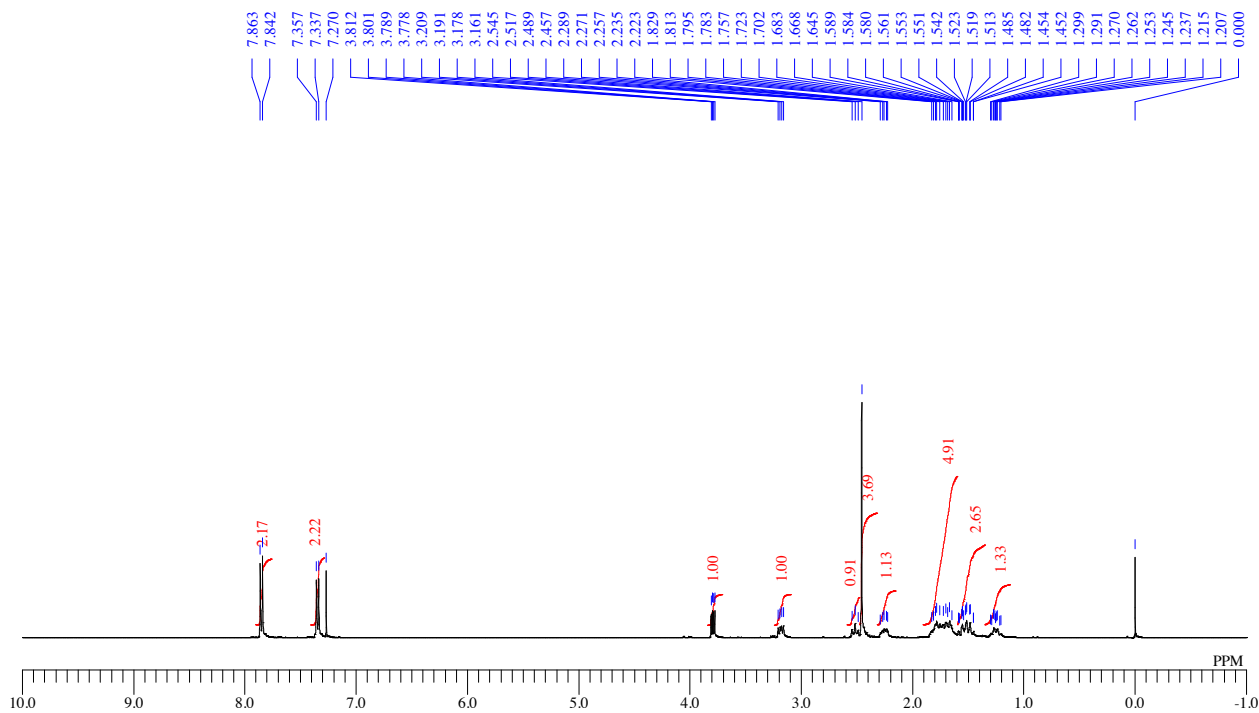
^{13}C NMR: (100 MHz, CDCl_3)



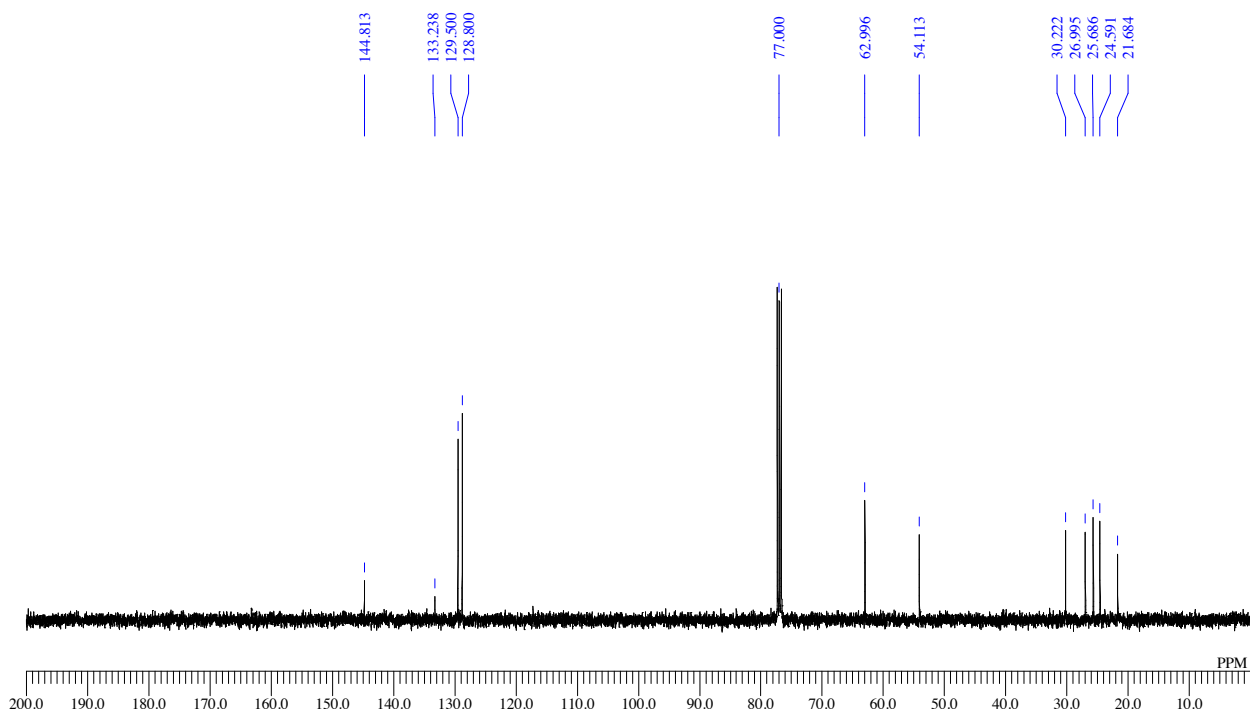


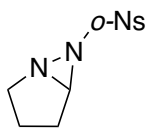
3pa

^1H NMR: (400 MHz, CDCl_3)



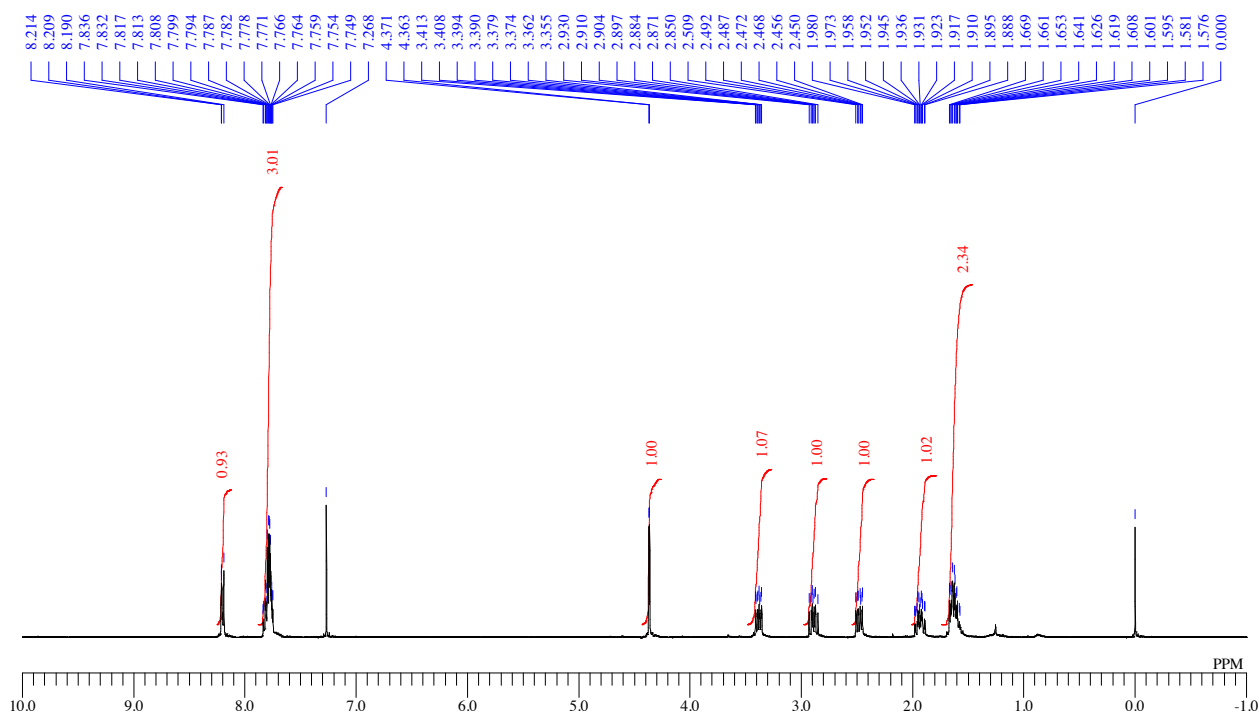
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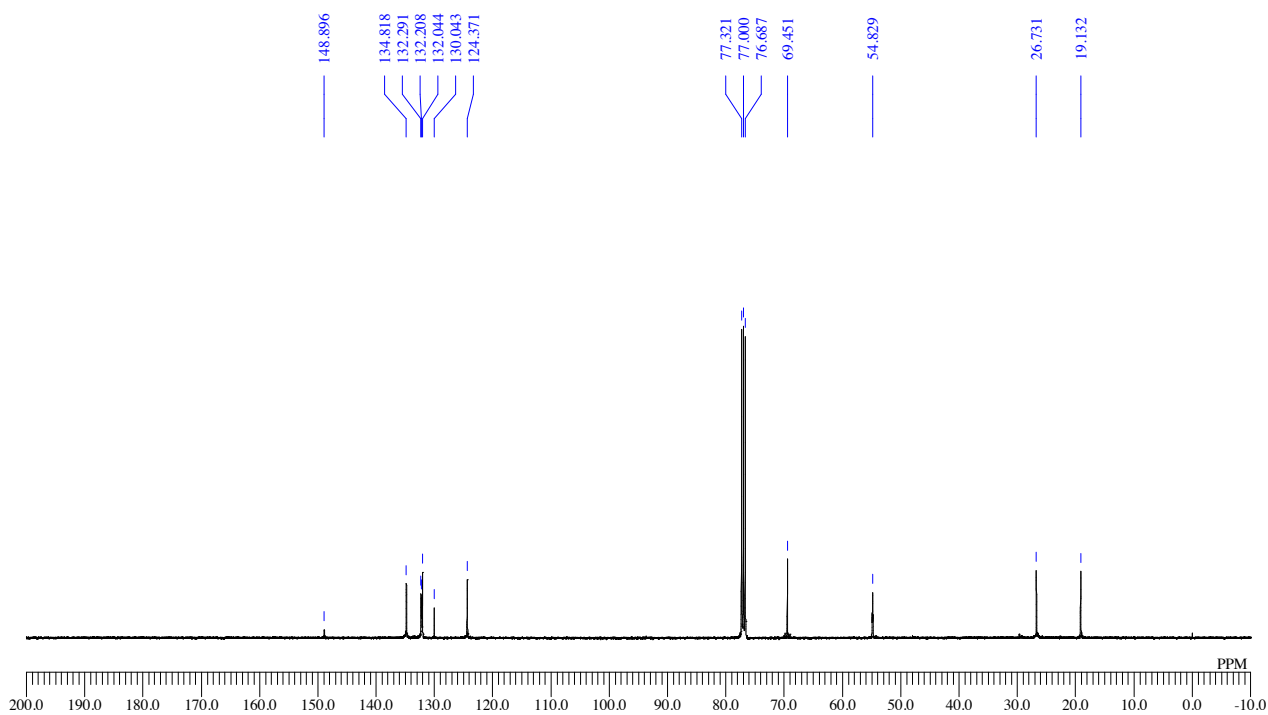


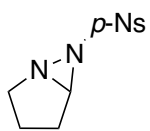
3ab

$^1\text{H NMR}$: (400 MHz, CDCl_3)



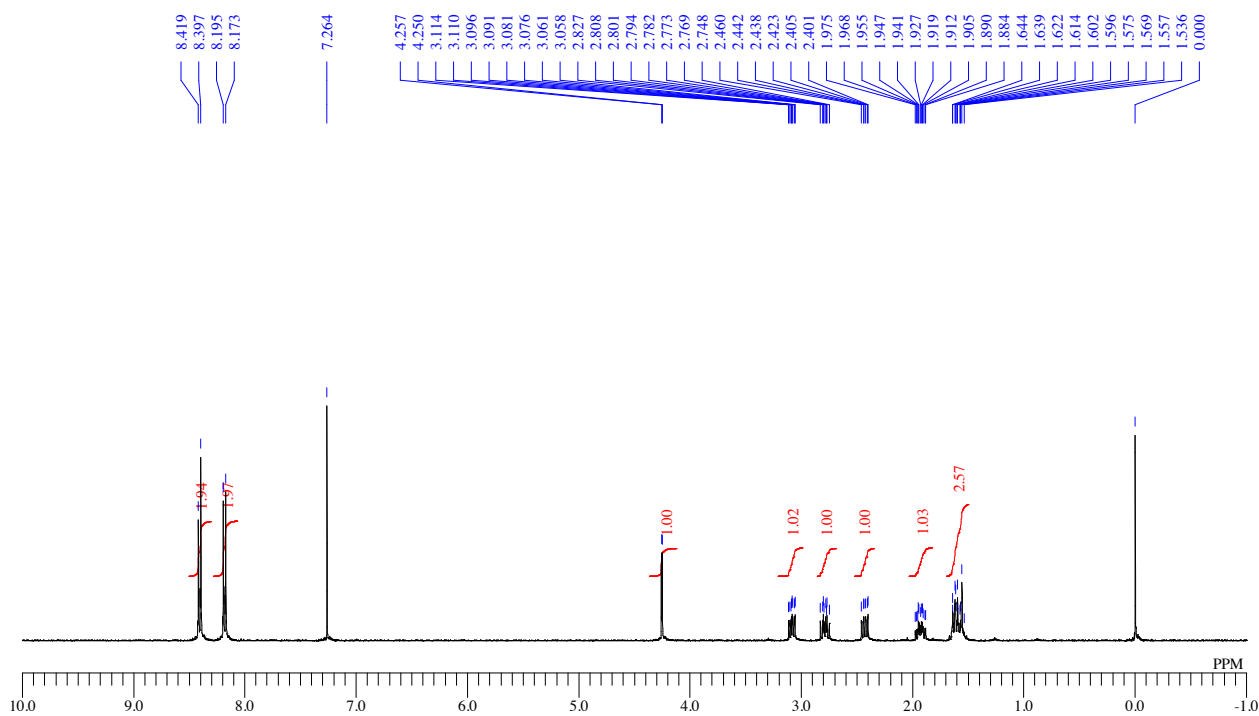
$^{13}\text{C NMR}$: (100 MHz, CDCl_3)



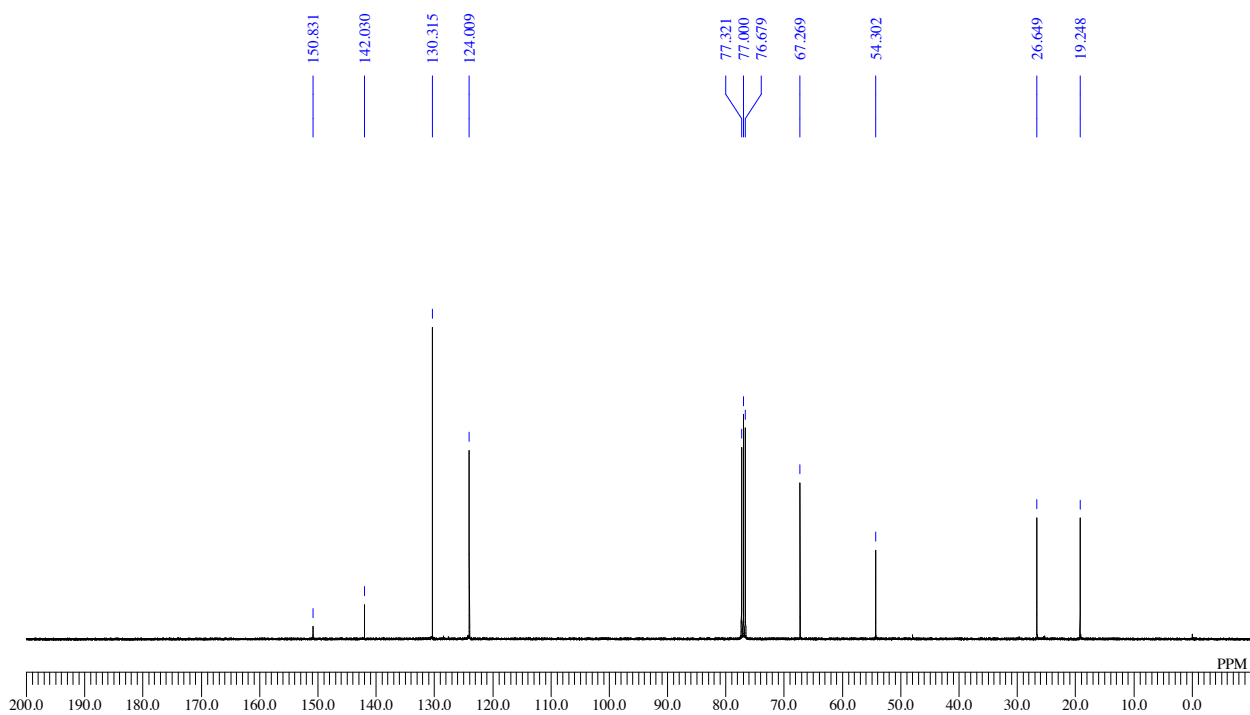


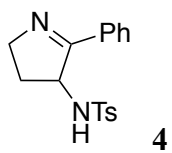
3ae

^1H NMR: (400 MHz, CDCl_3)

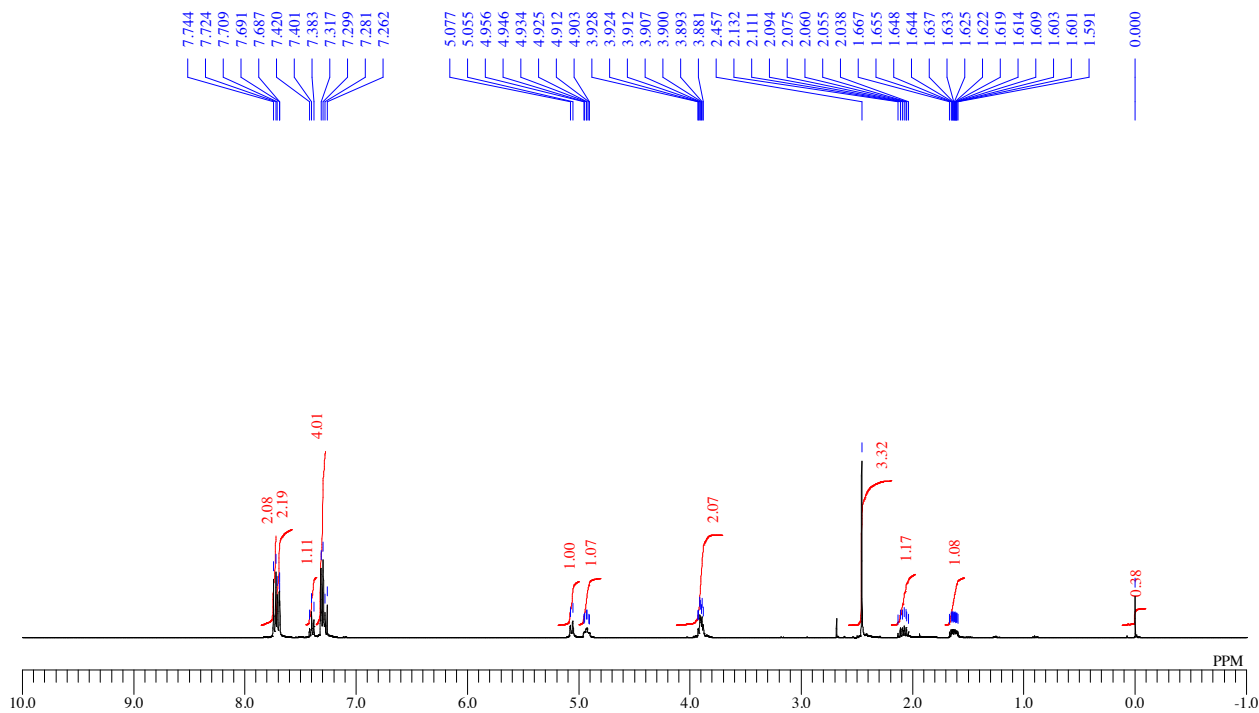


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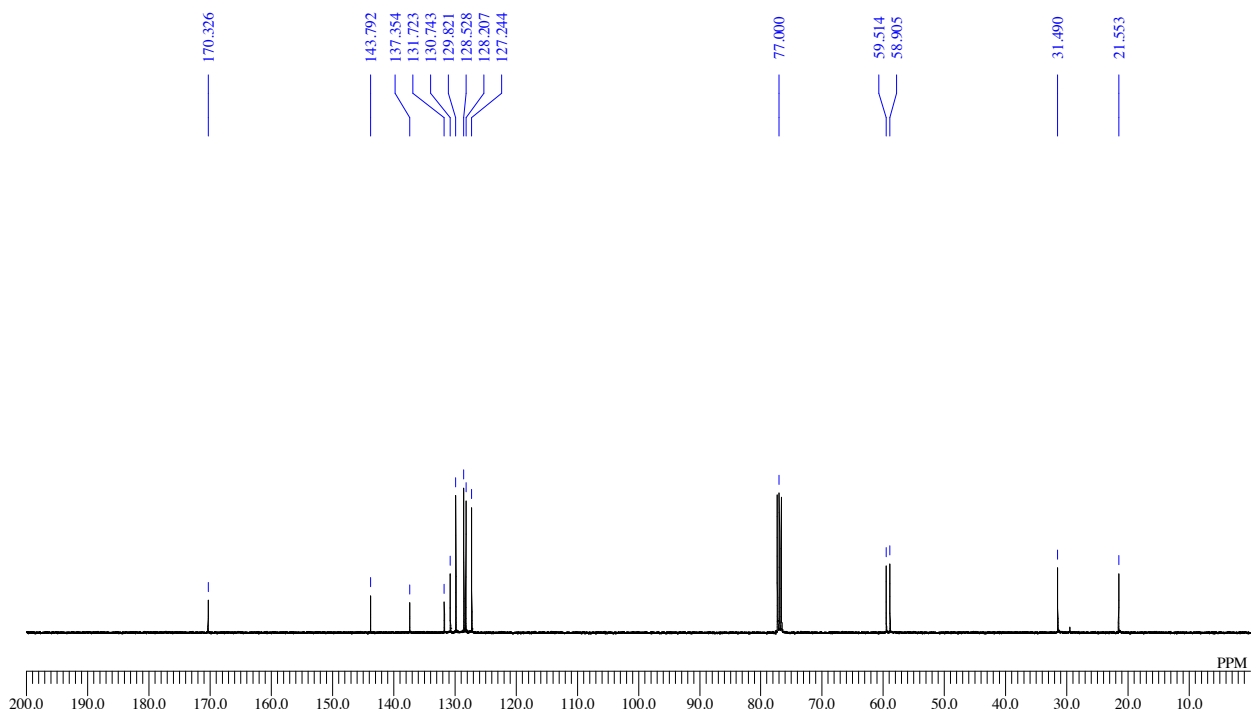


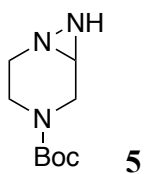


^1H NMR: (400 MHz, CDCl_3)

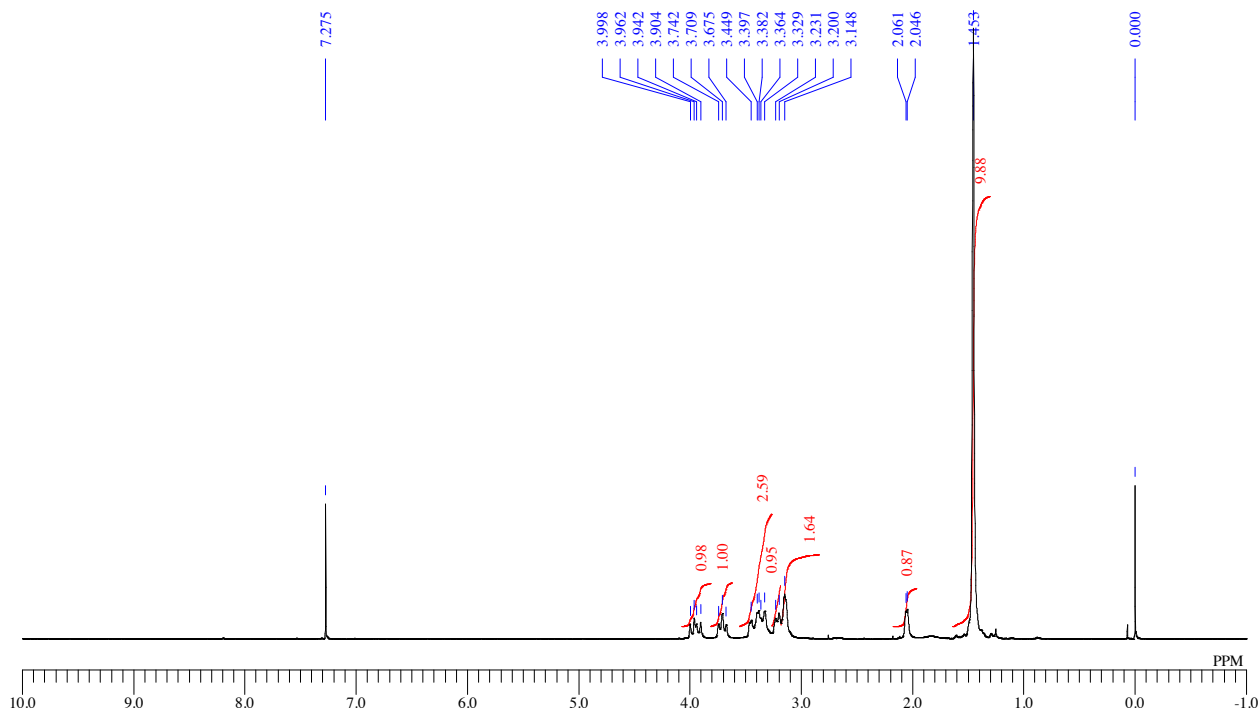


^{13}C NMR: (100 MHz, CDCl_3)





^1H NMR: (400 MHz, CDCl_3)



^{13}C NMR: (100 MHz, CDCl_3)

