

Supplementary Material

Catalytic and non-catalytic selective aryl transfer from (mesityl)iodonium(III) salts to diarylsulfide compounds

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^b*College of Pharmaceutical Sciences, Ritsumeikan University, 1-1-1 Nojihigashi, Kusatsu, Shiga, 525-8577, Japan*

^c*Department of Chemistry, J.C. Bose University of Science & Technology, YMCA Faridabad, NH-2, Sector-6, Mathura Road, Faridabad, Haryana, 121006, India*

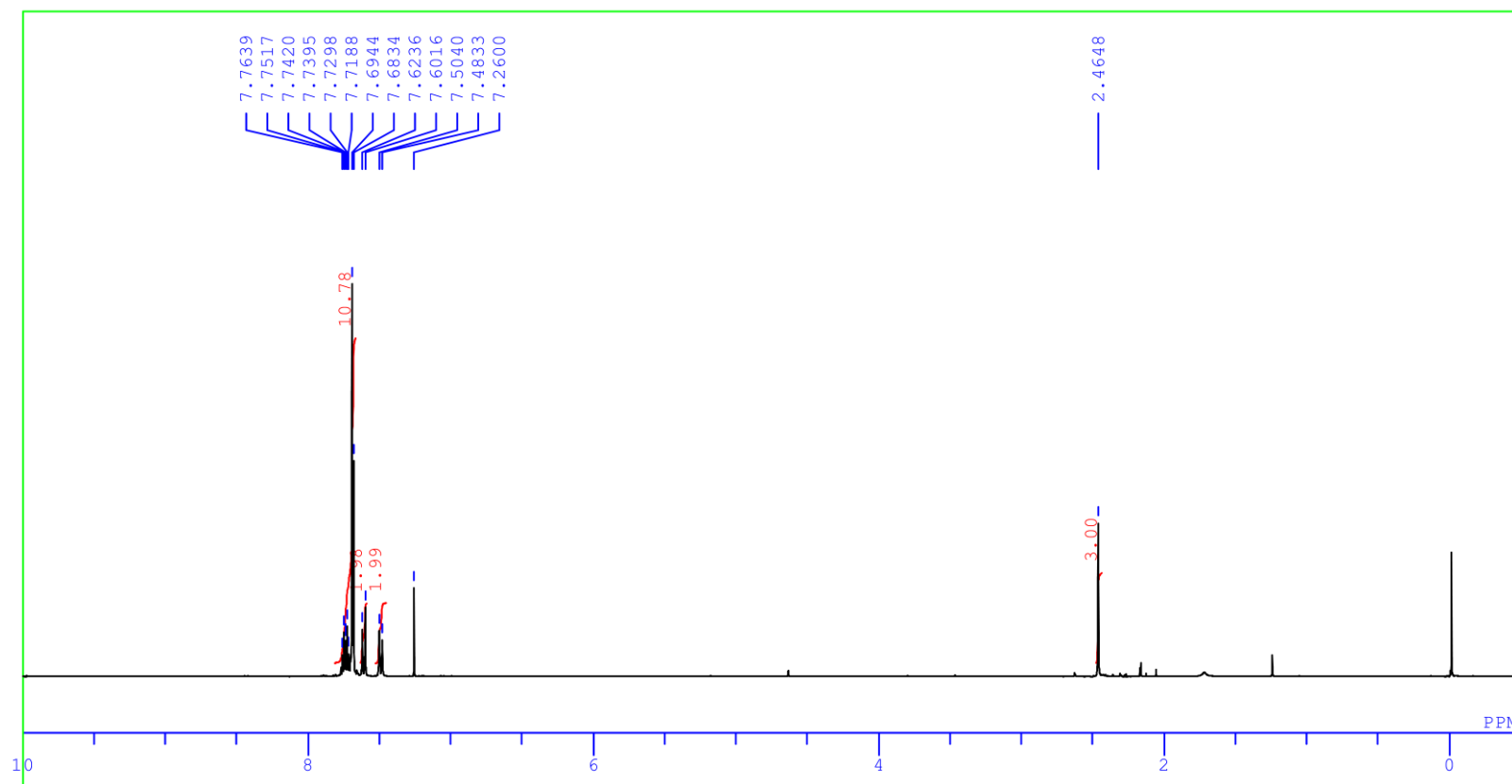
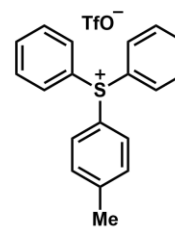
Email: ntakenag@meijo-u.ac.jp, ravi.dhamija@rediffmail.com,
td1203@ph.ritsumei.ac.jp

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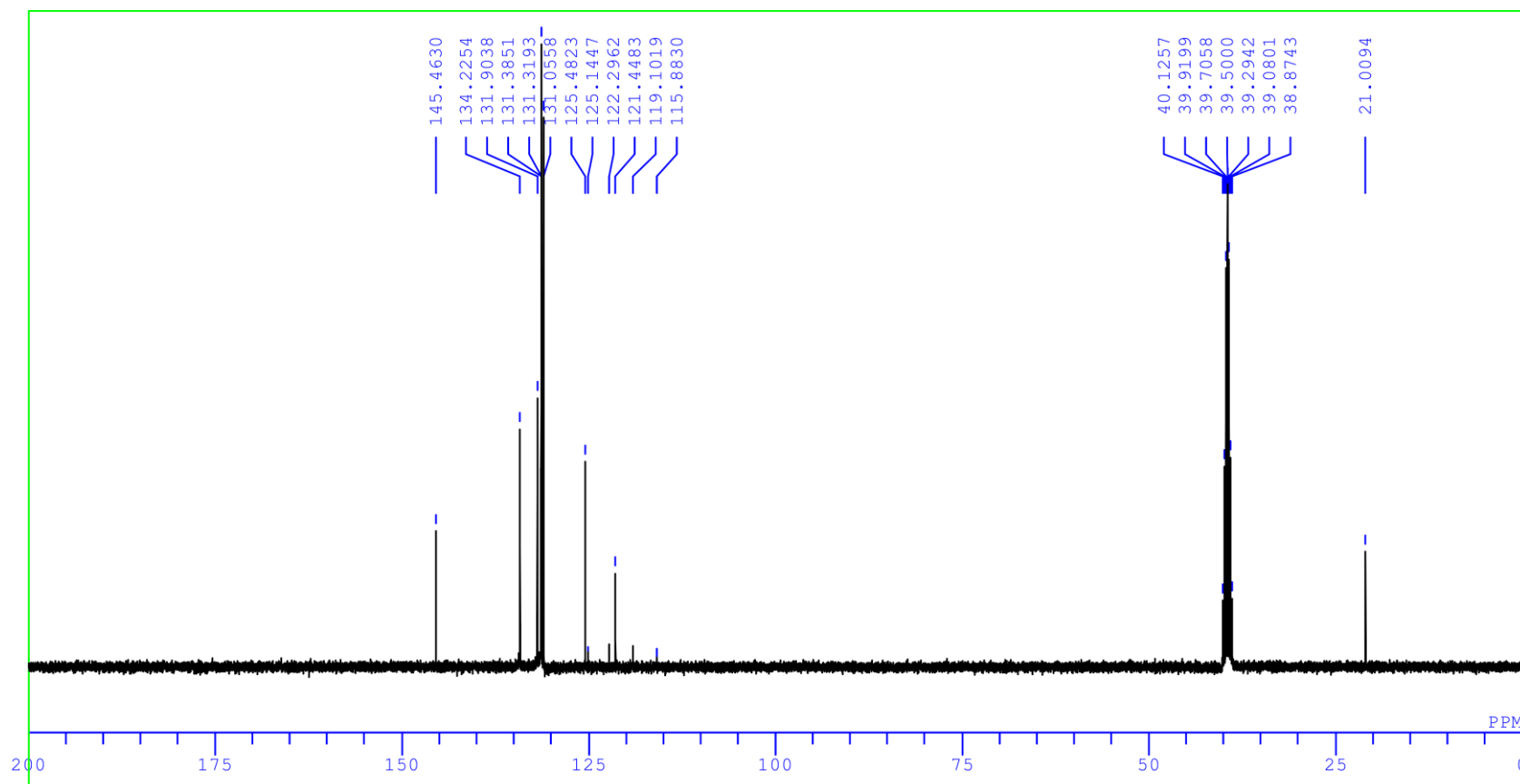
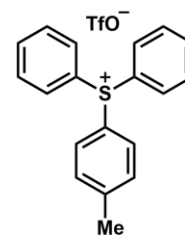
1. ¹ H-NMR and ¹³ C-NMR Charts	S2
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1. ^1H -NMR and ^{13}C -NMR Spectra

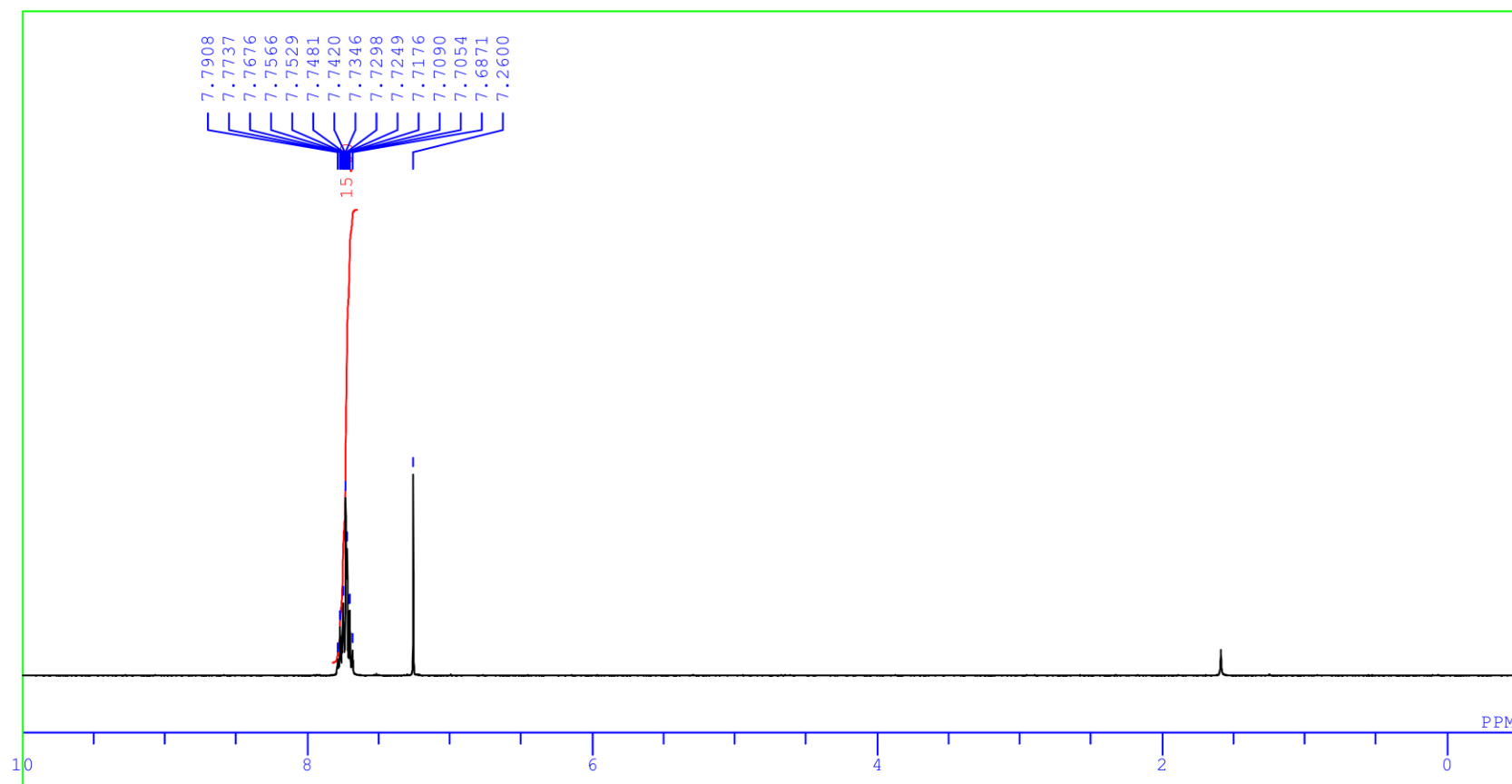
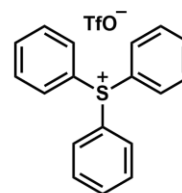
(4-Methylphenyl)diphenylsulfonium triflate (3aa)

 ^1H NMR (400 MHz, CDCl_3)

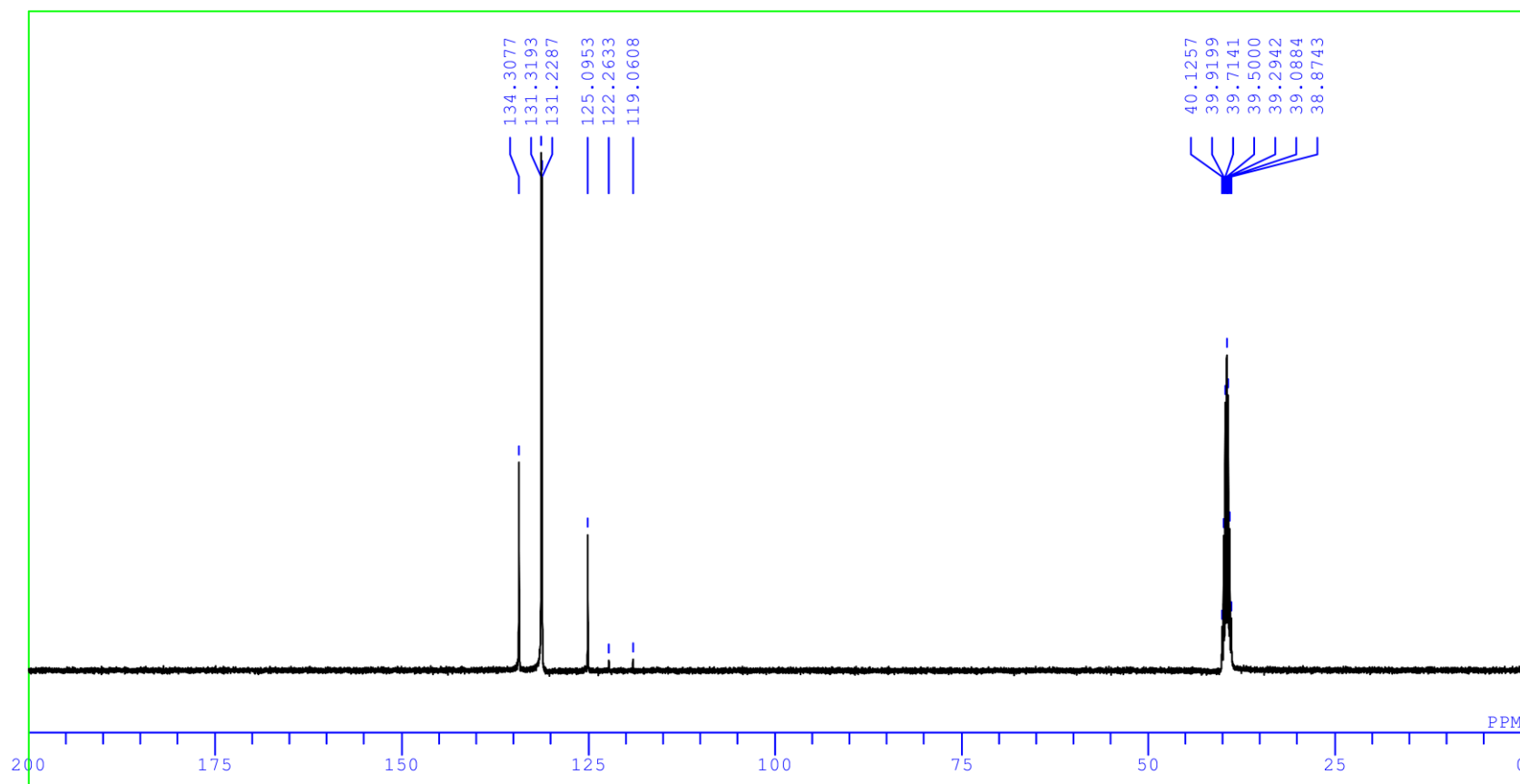
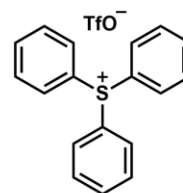
(4-Methylphenyl)diphenylsulfonium triflate (3aa)
 ^{13}C NMR (100 MHz, $\text{DMSO}-d_6$)



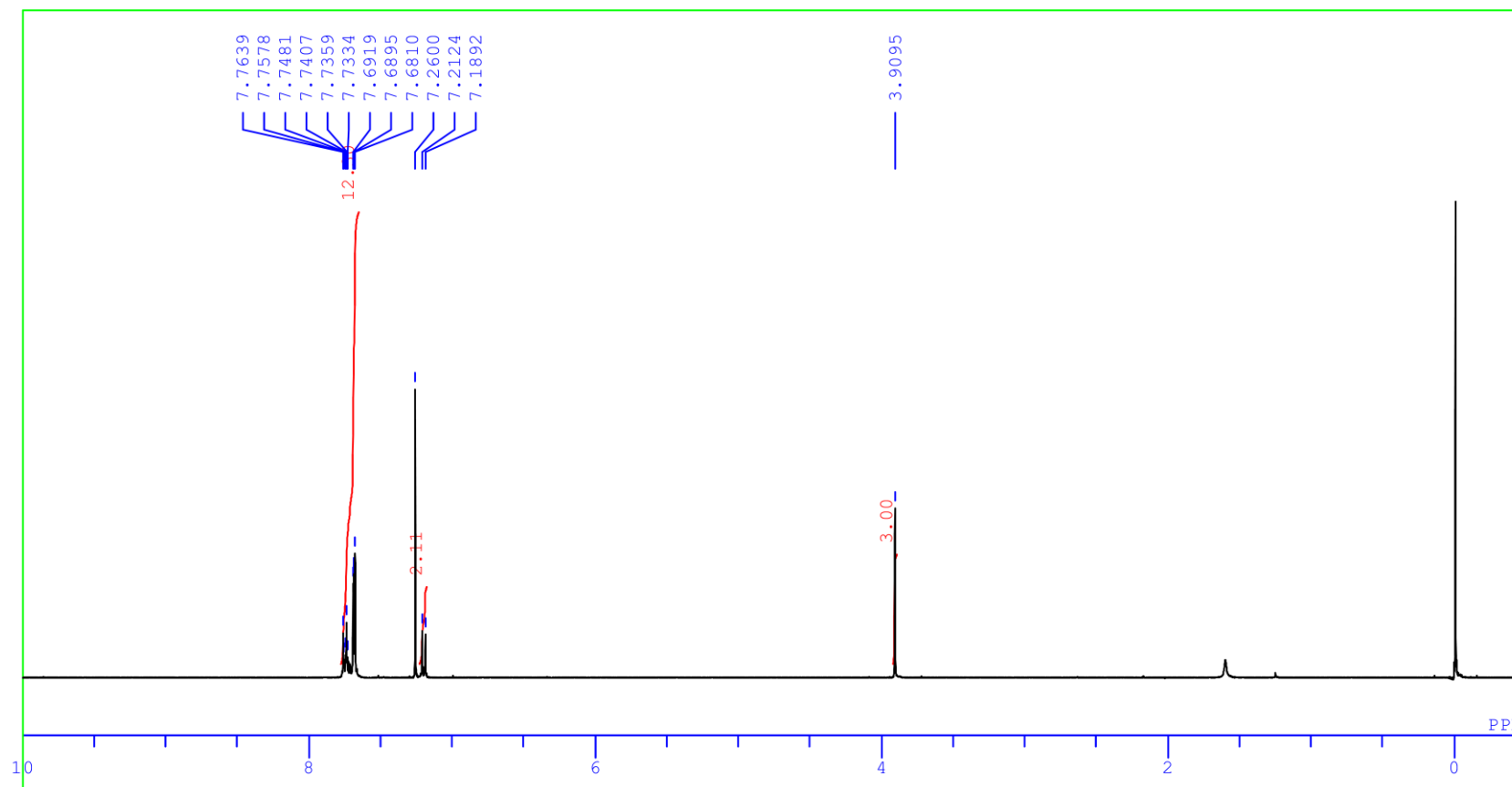
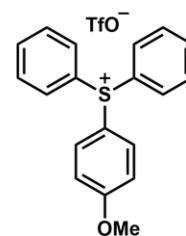
Triphenylsulfonium triflate (3ab)
 ^1H NMR (400 MHz, CDCl_3)



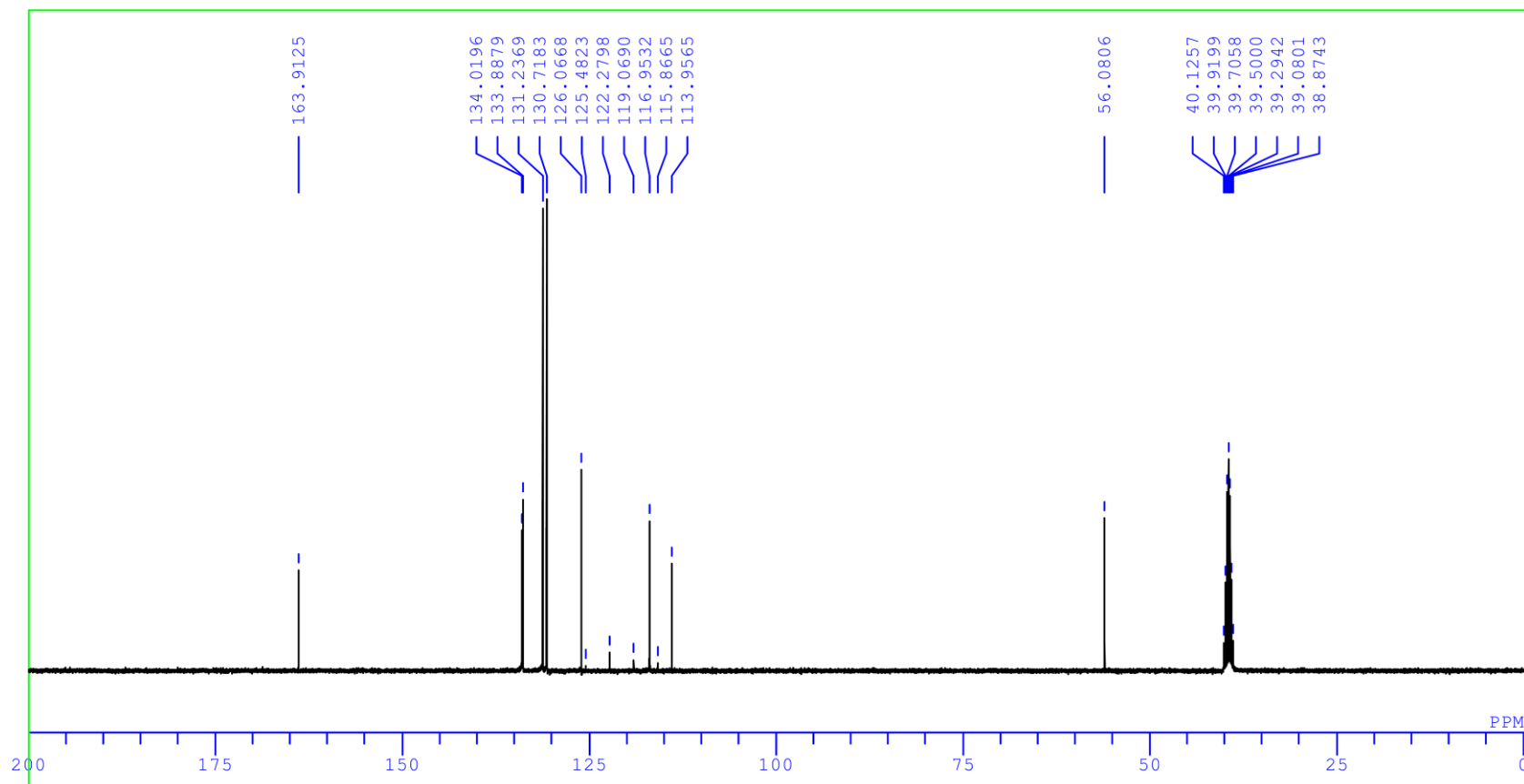
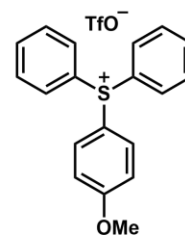
Triphenylsulfonium triflate (3ab)
 ^{13}C NMR (100 MHz, $\text{DMSO}-d_6$)



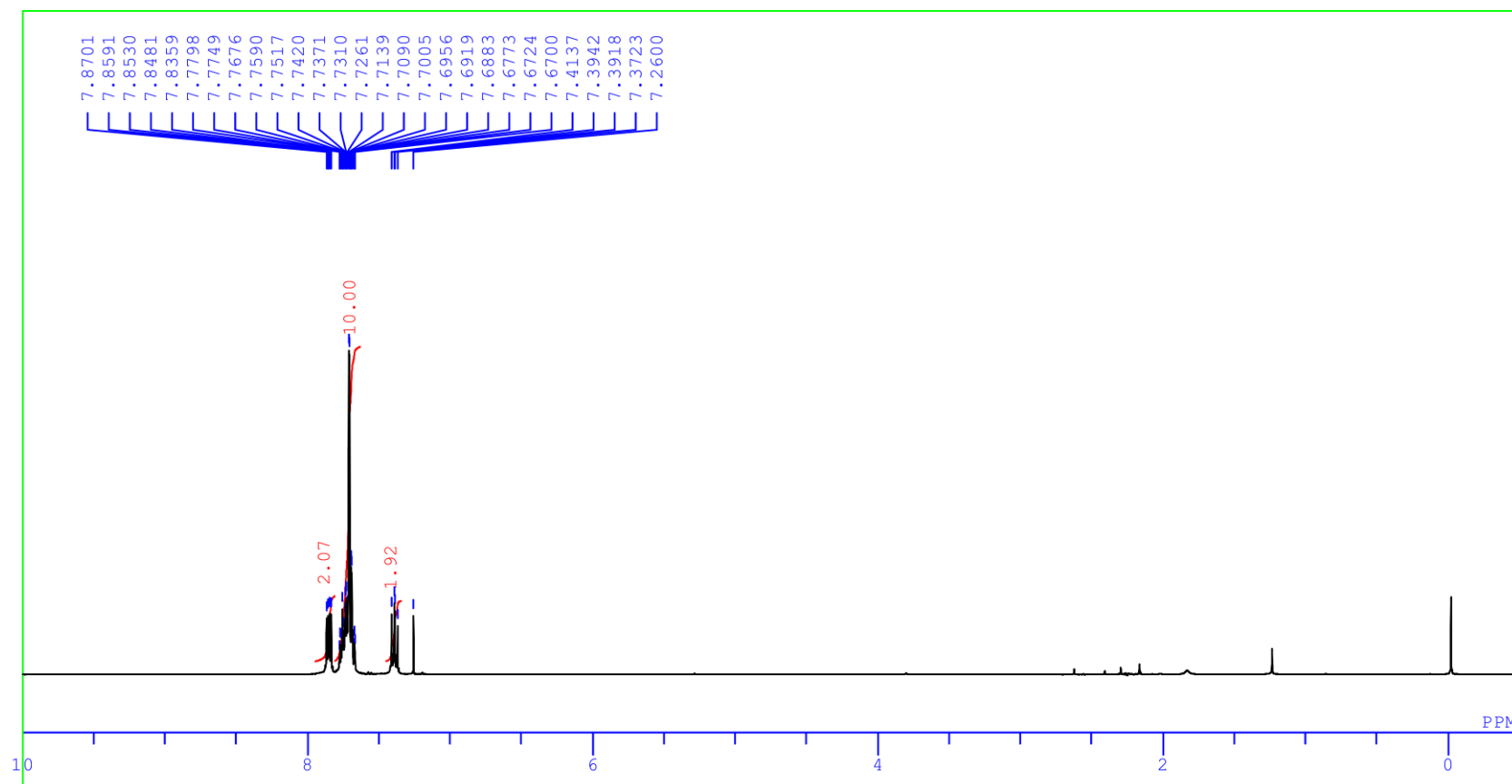
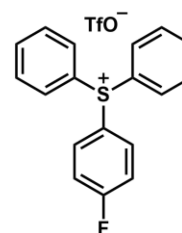
(4-Methoxyphenyl)diphenylsulfonium triflate (3ac)
 ^1H NMR (400 MHz, CDCl_3)



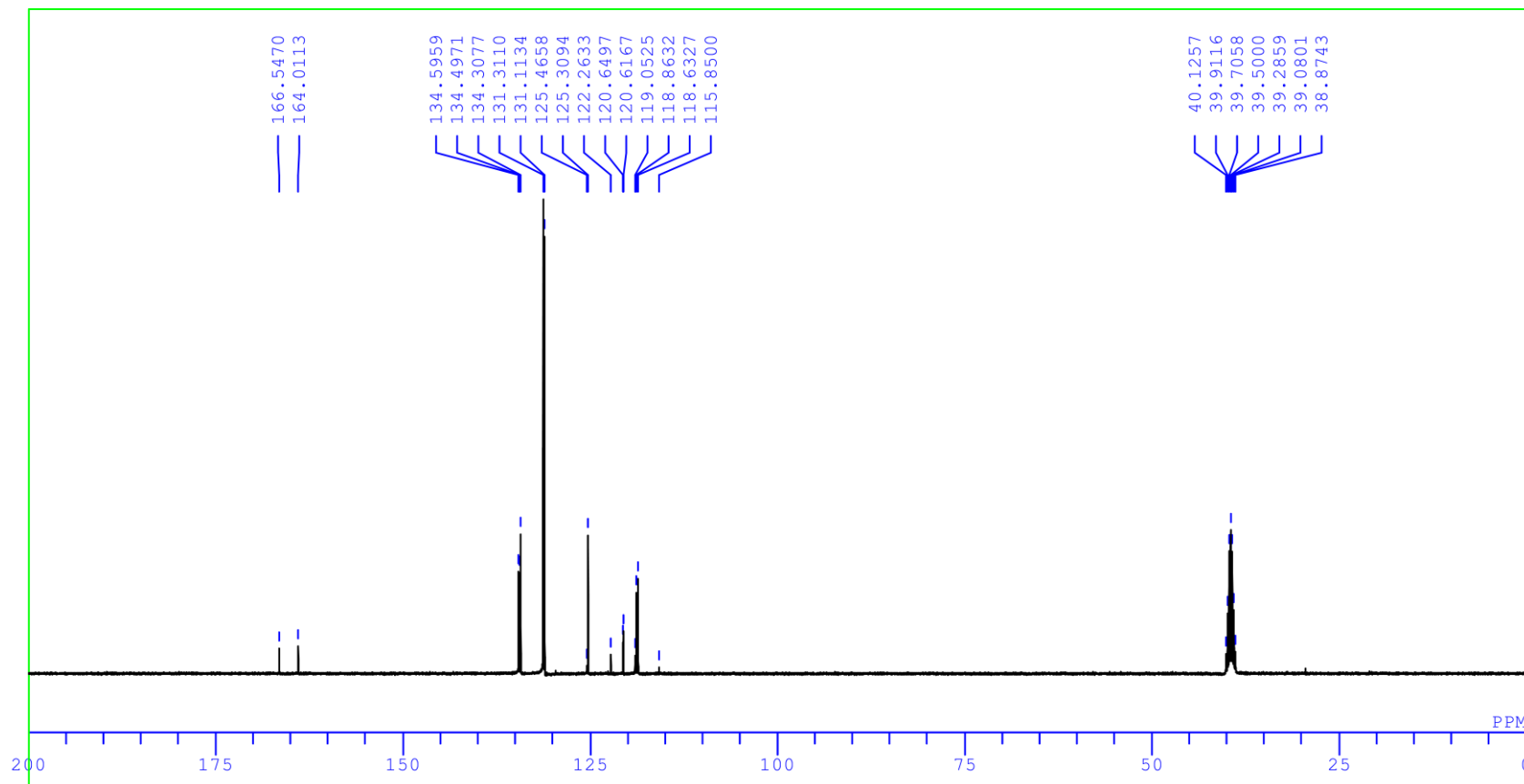
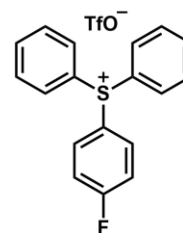
(4-Methoxyphenyl)diphenylsulfonium triflate (3ac)
 ^{13}C NMR (100 MHz, $\text{DMSO}-d_6$)



(4-Fluorophenyl)diphenylsulfonium triflate (3ad)
 ^1H NMR (400 MHz, CDCl_3)

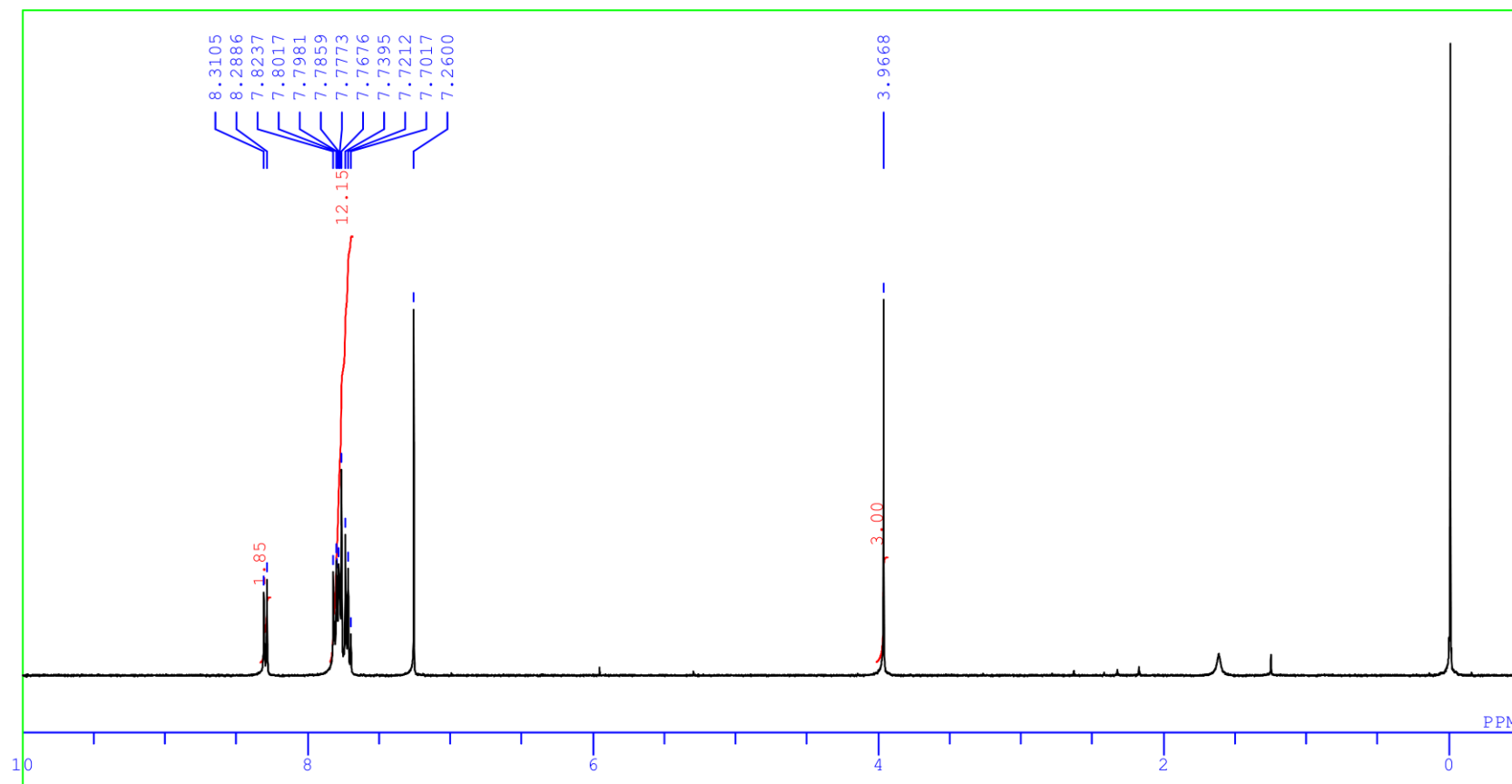
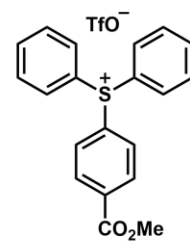


(4-Fluorophenyl)diphenylsulfonium triflate (3ad)
 ^{13}C NMR (100 MHz, $\text{DMSO}-d_6$)



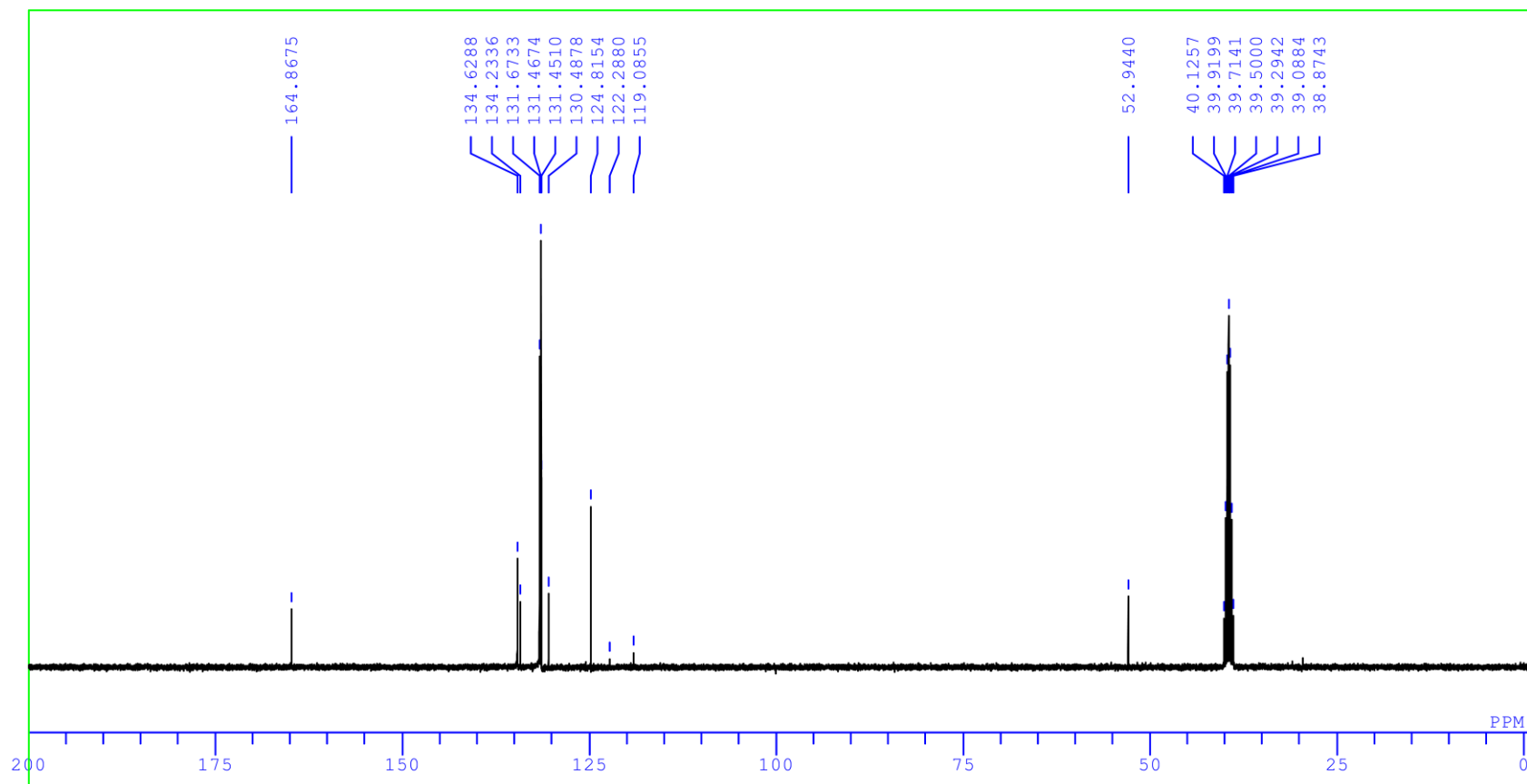
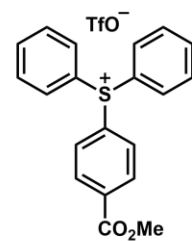
[4- (Methoxycarbonyl)phenyl]diphenylsulfonium
triflate (3ae)

^1H NMR (400 MHz, CDCl_3)

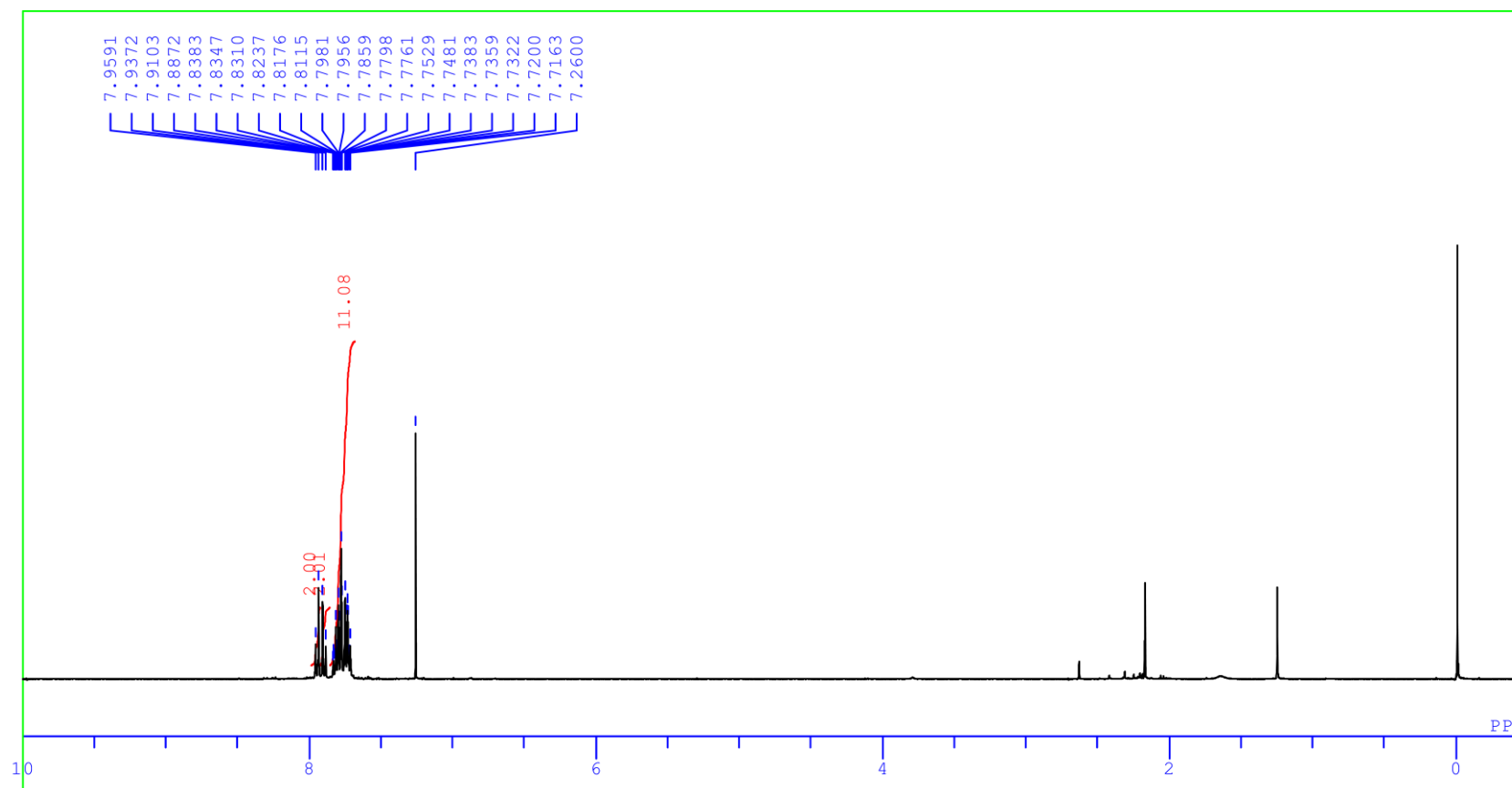
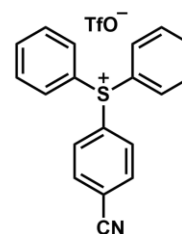


[4- (Methoxycarbonyl)phenyl]diphenylsulfonium
triflate (3ae)

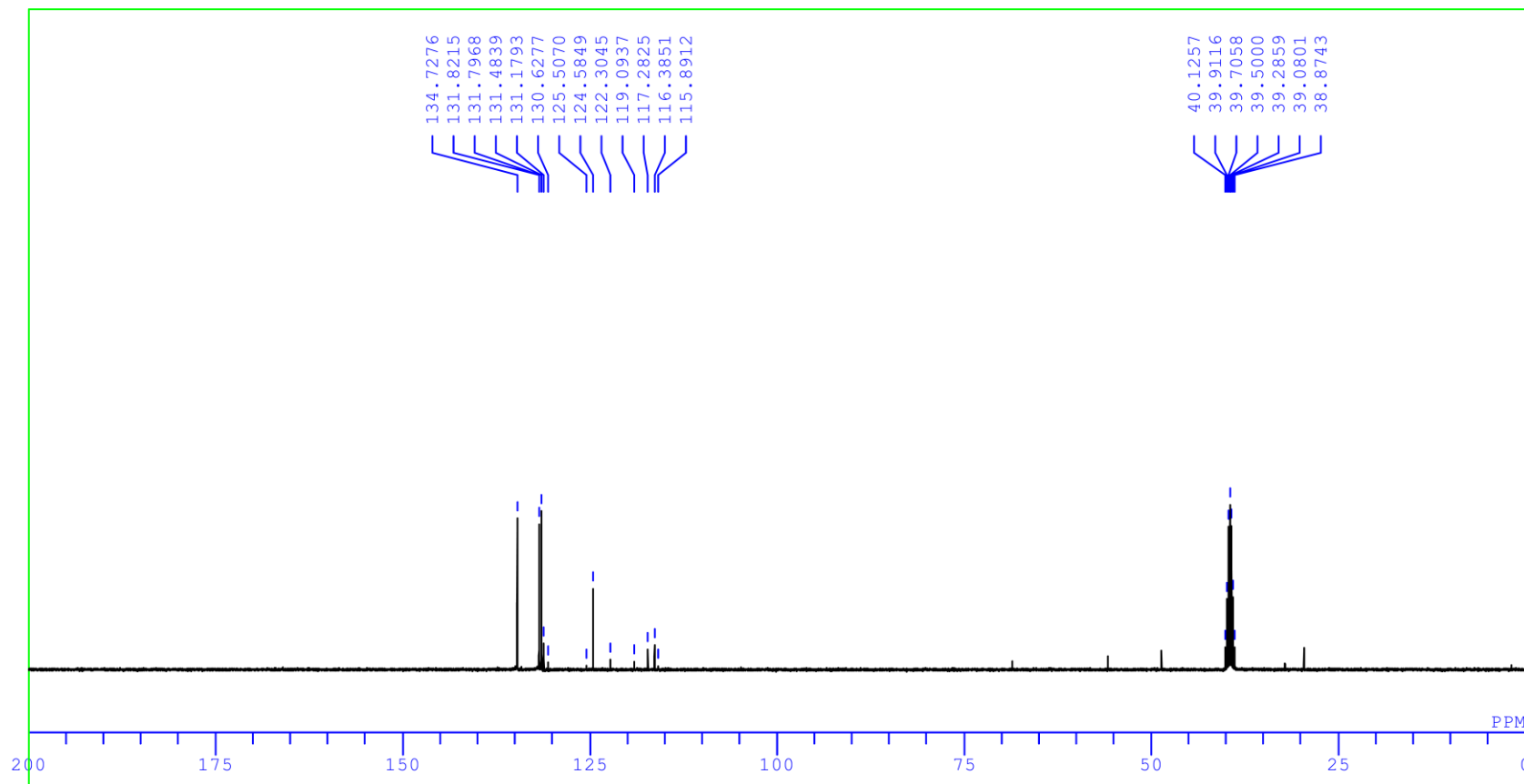
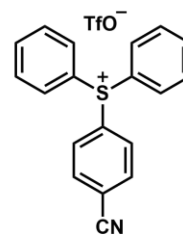
^{13}C NMR (100 MHz, $\text{DMSO}-d_6$)



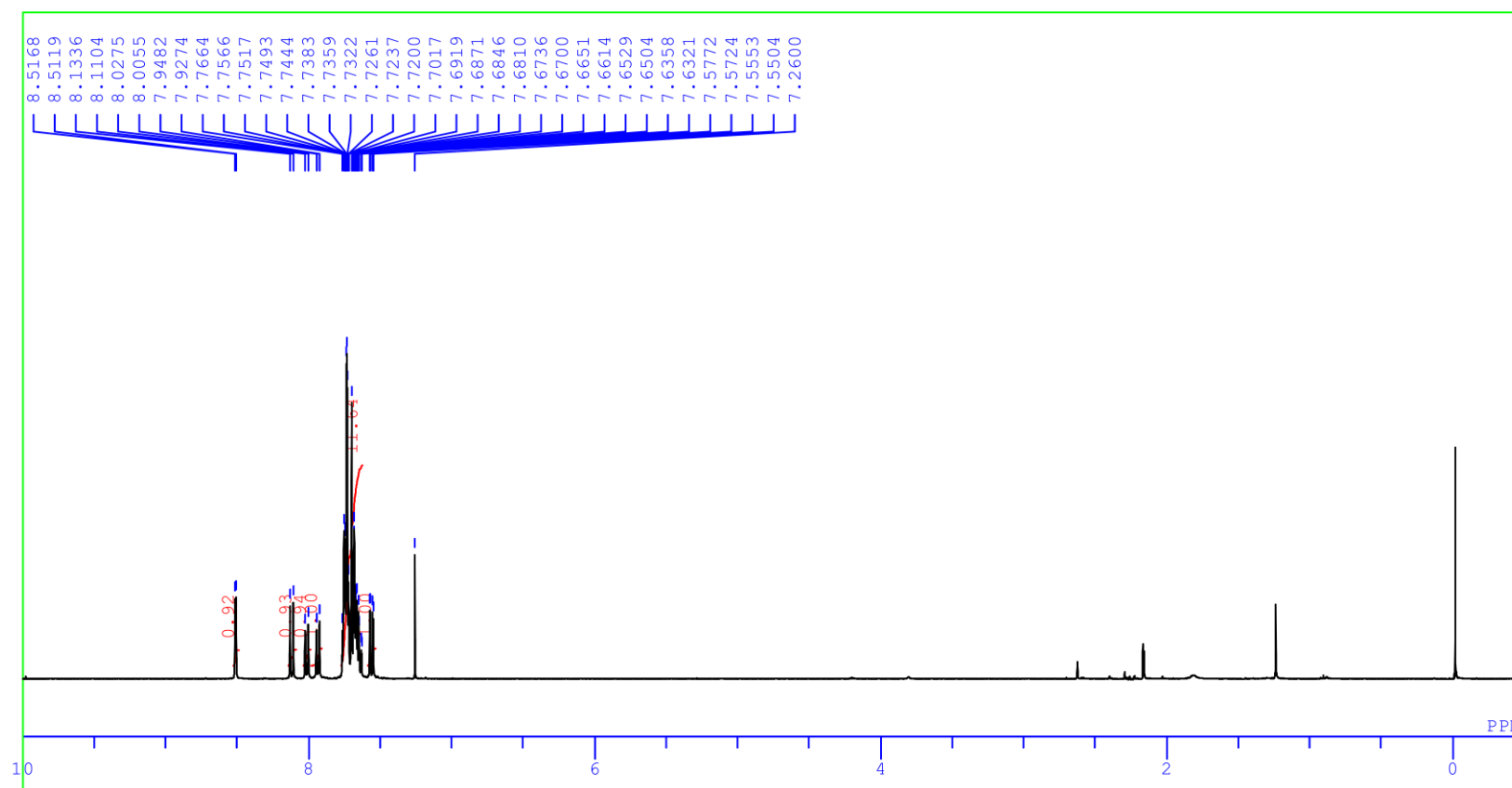
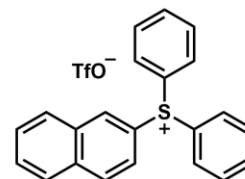
(4-Cyanophenyl)diphenylsulfonium triflate (3af)
 ^1H NMR (400 MHz, CDCl_3)



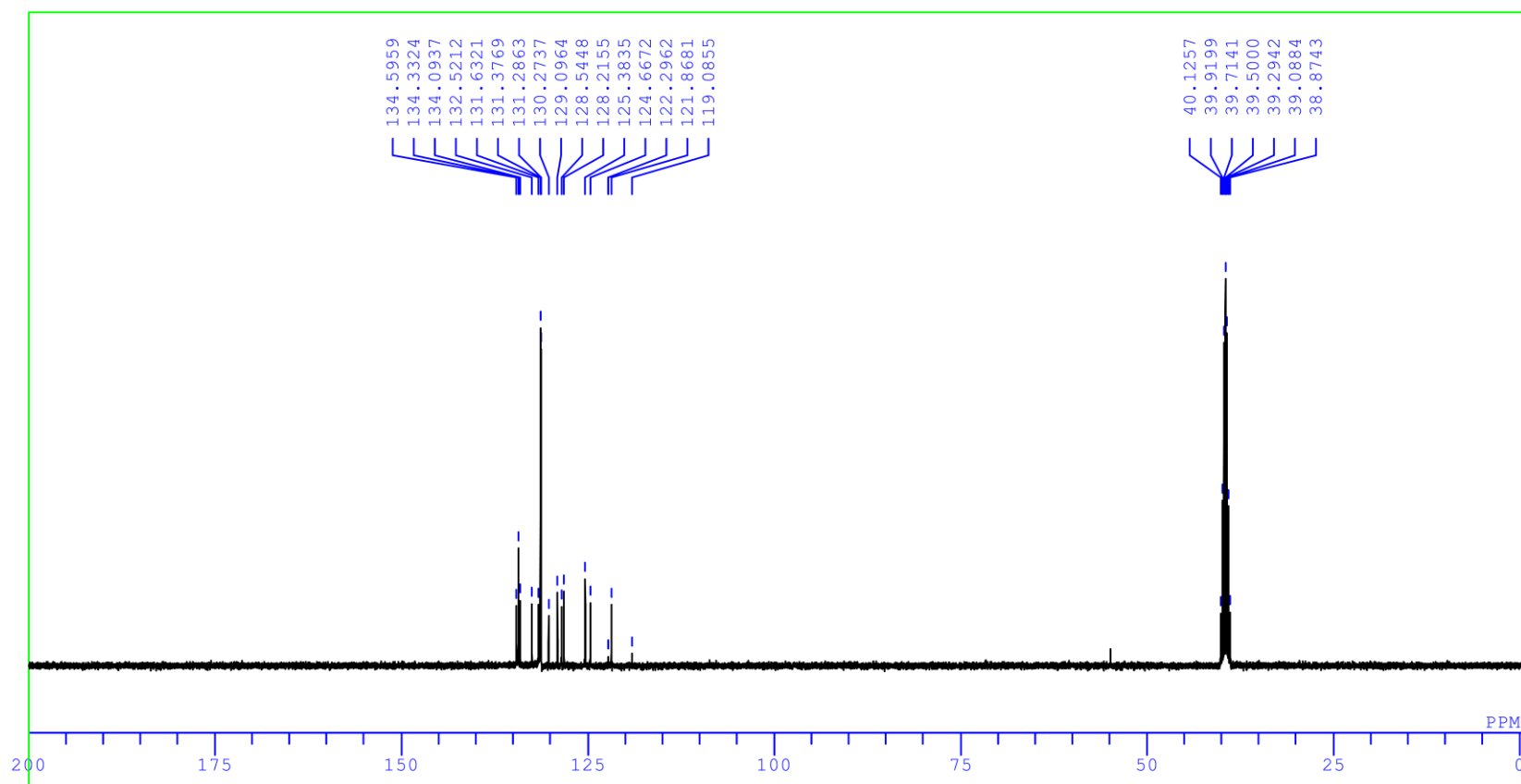
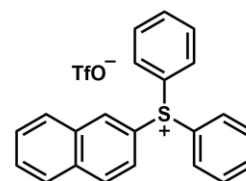
(4-Cyanophenyl)diphenylsulfonium triflate (3af)
 ^{13}C NMR (100 MHz, DMSO- d_6)



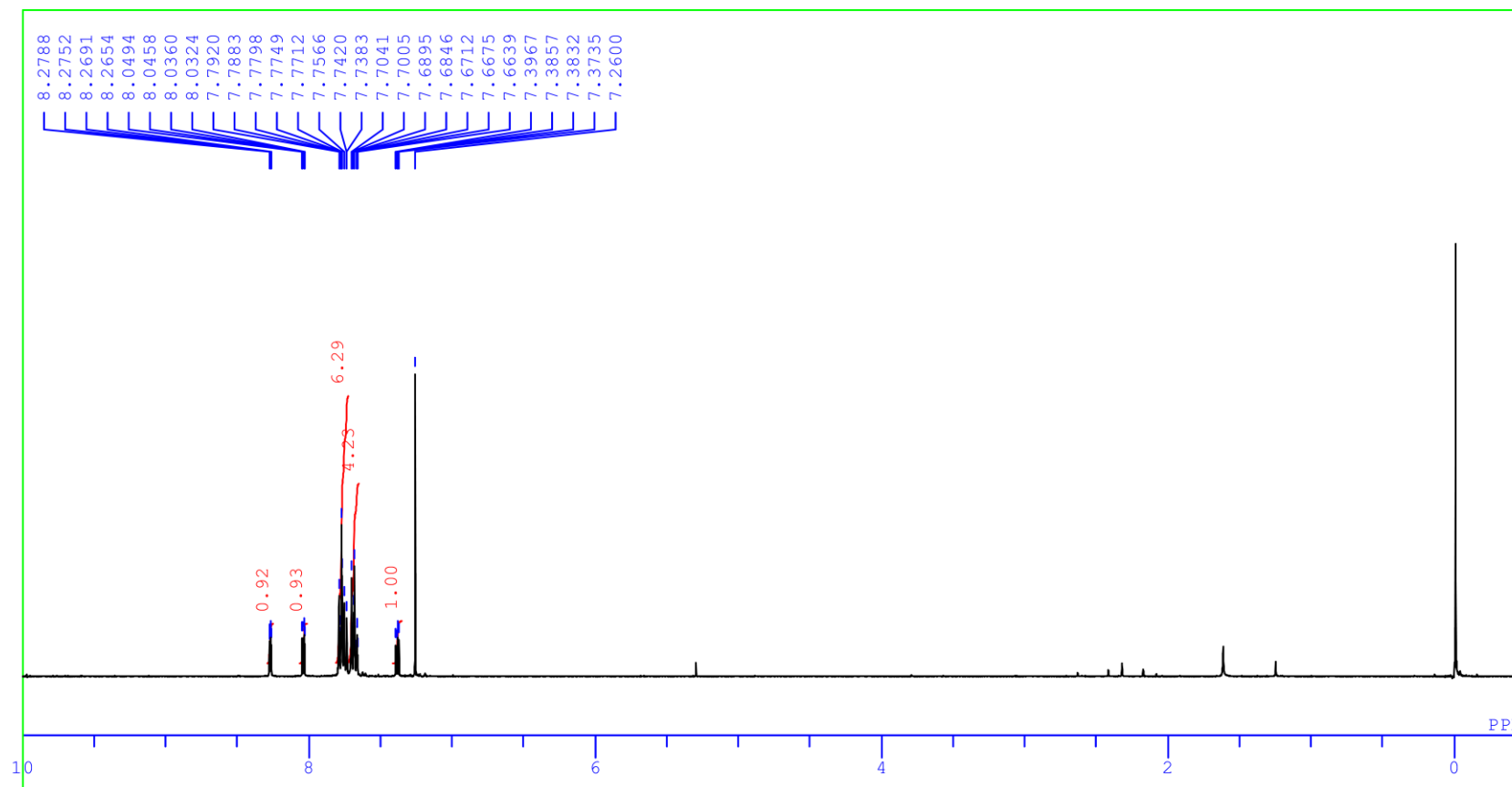
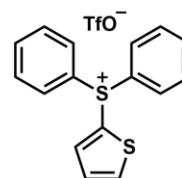
2-Naphthalenyldiphenylsulfonium triflate (3ag)

 ^1H NMR (400 MHz, CDCl_3)

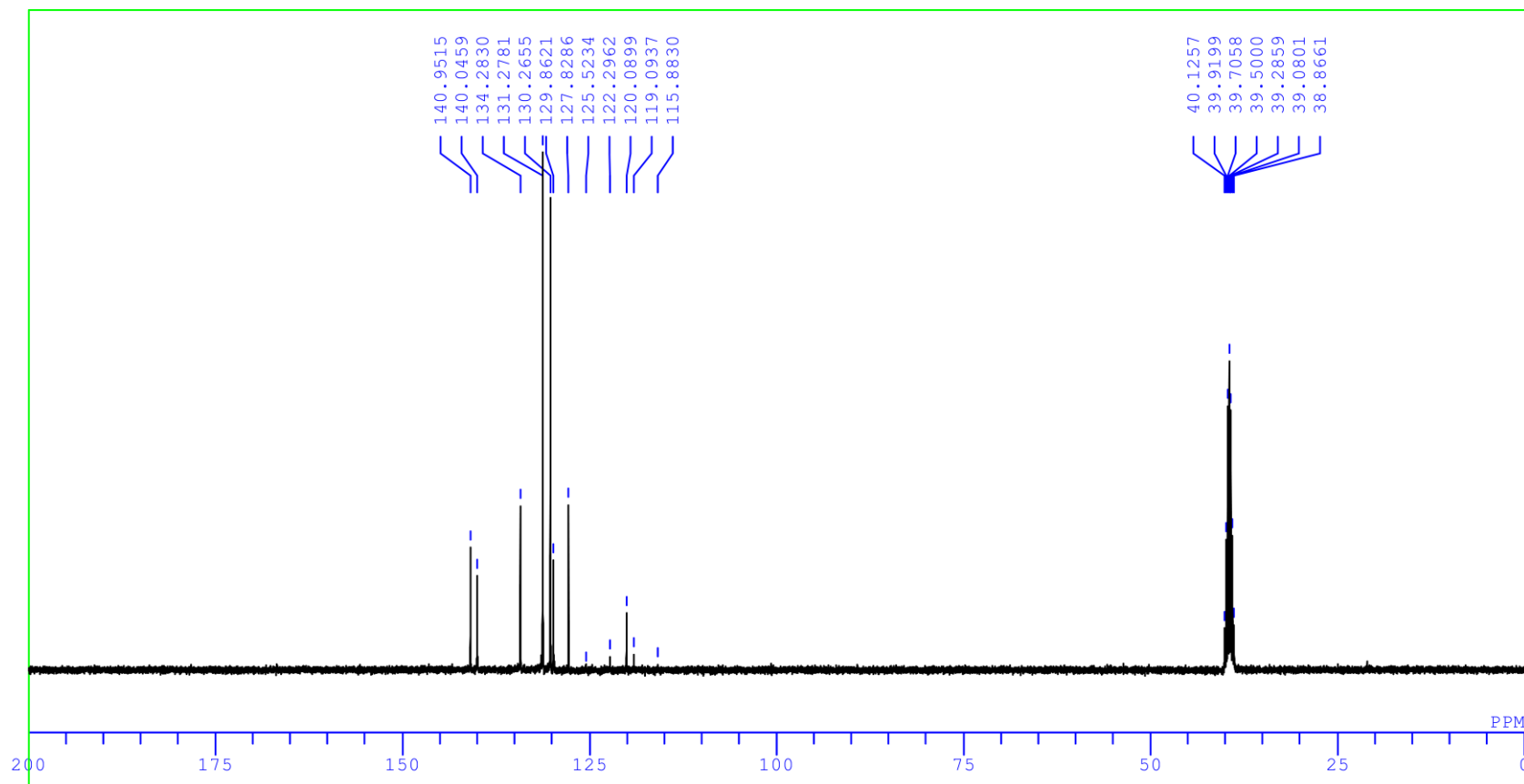
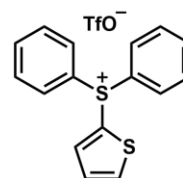
2-Naphthalenyldiphenylsulfonium triflate (3ag)

 ^{13}C NMR (100 MHz, $\text{DMSO}-d_6$)

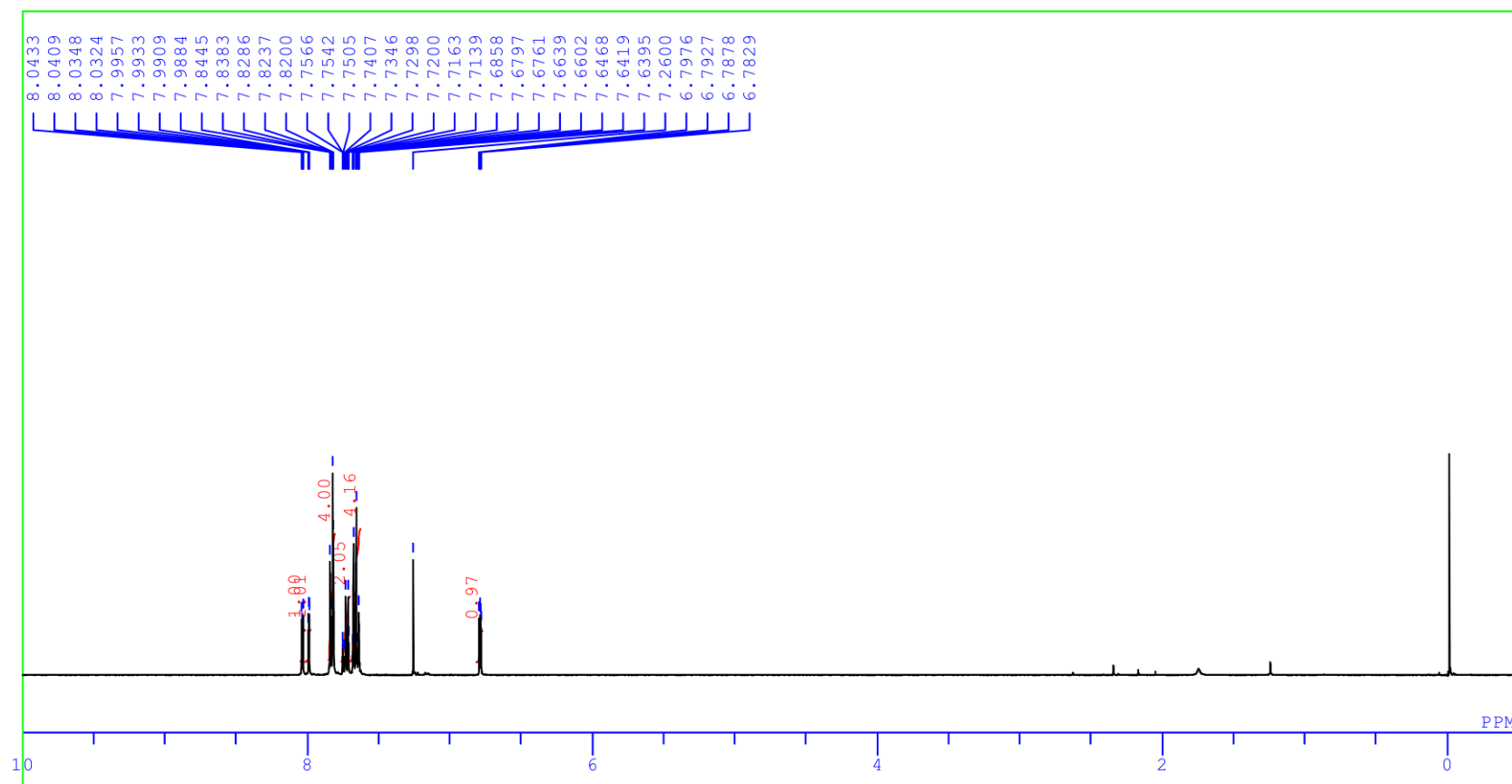
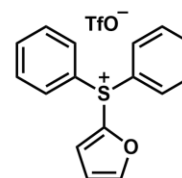
Diphenyl-2-thienylsulfonium triflate (3ai)
 ^1H NMR (400 MHz, CDCl_3)



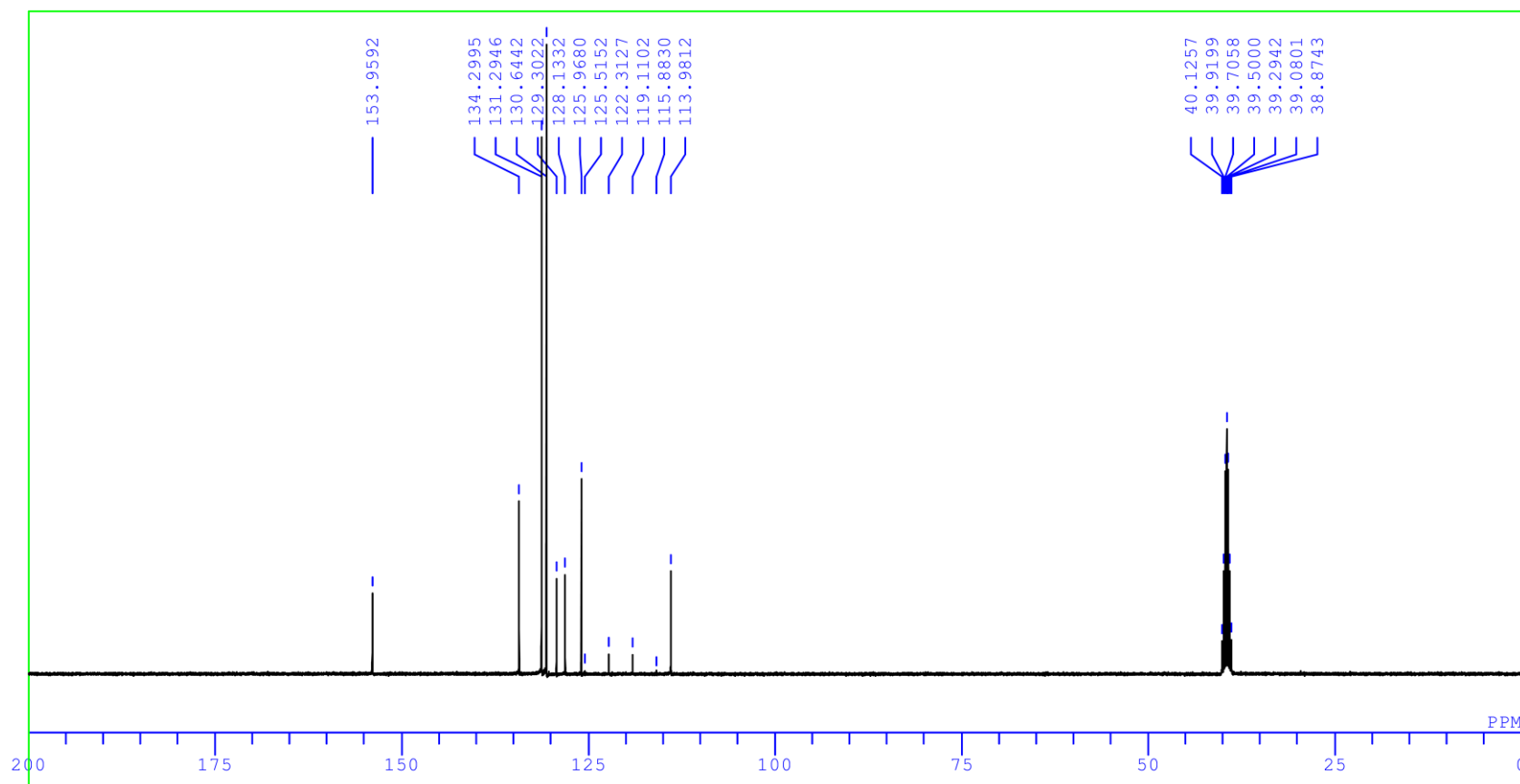
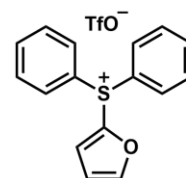
Diphenyl-2-thienylsulfonium triflate (3ai)
 ^{13}C NMR (100 MHz, $\text{DMSO}-d_6$)



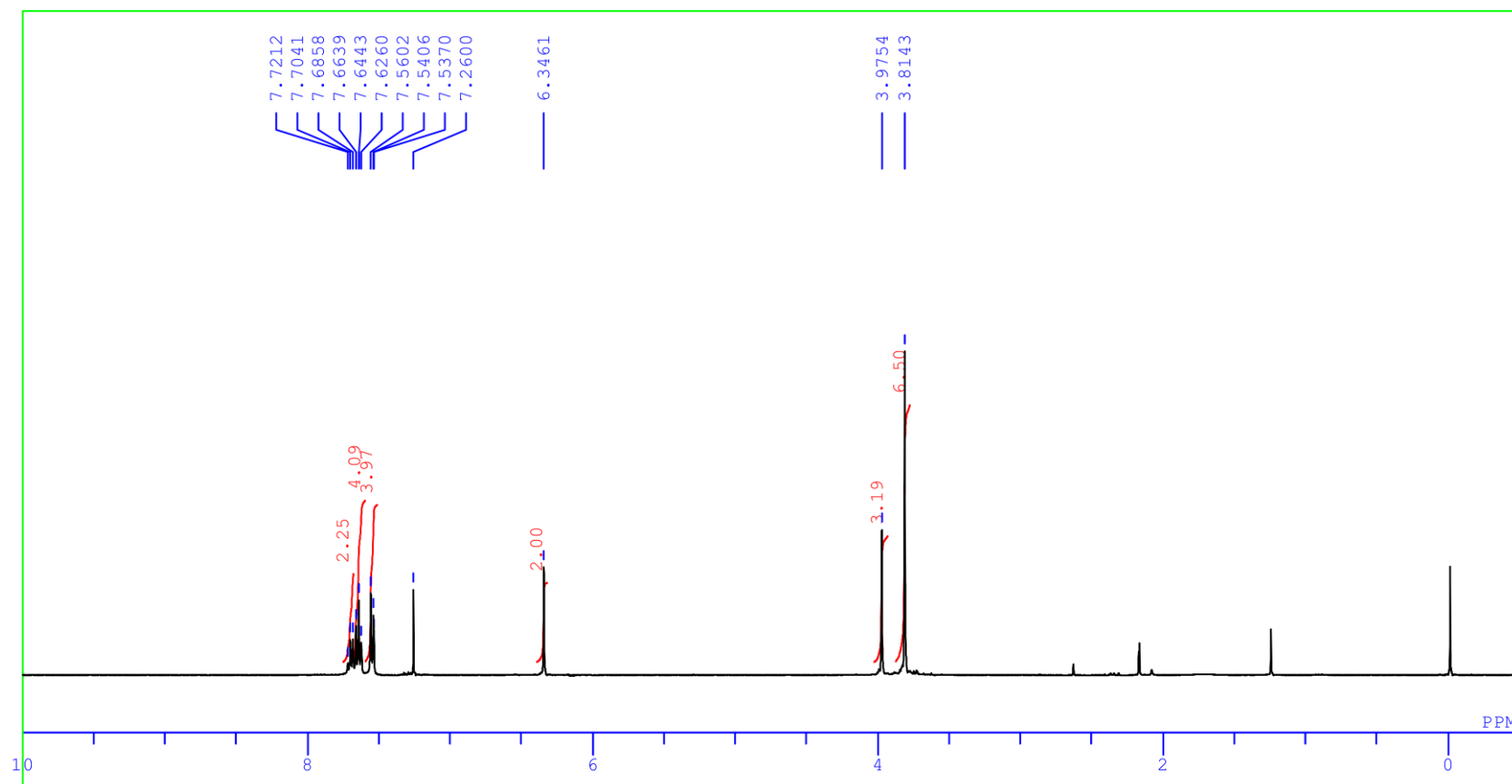
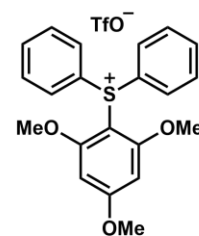
(2-Furyl)diphenylsulfonium triflate (3ah)
 ^1H NMR (400 MHz, CDCl_3)



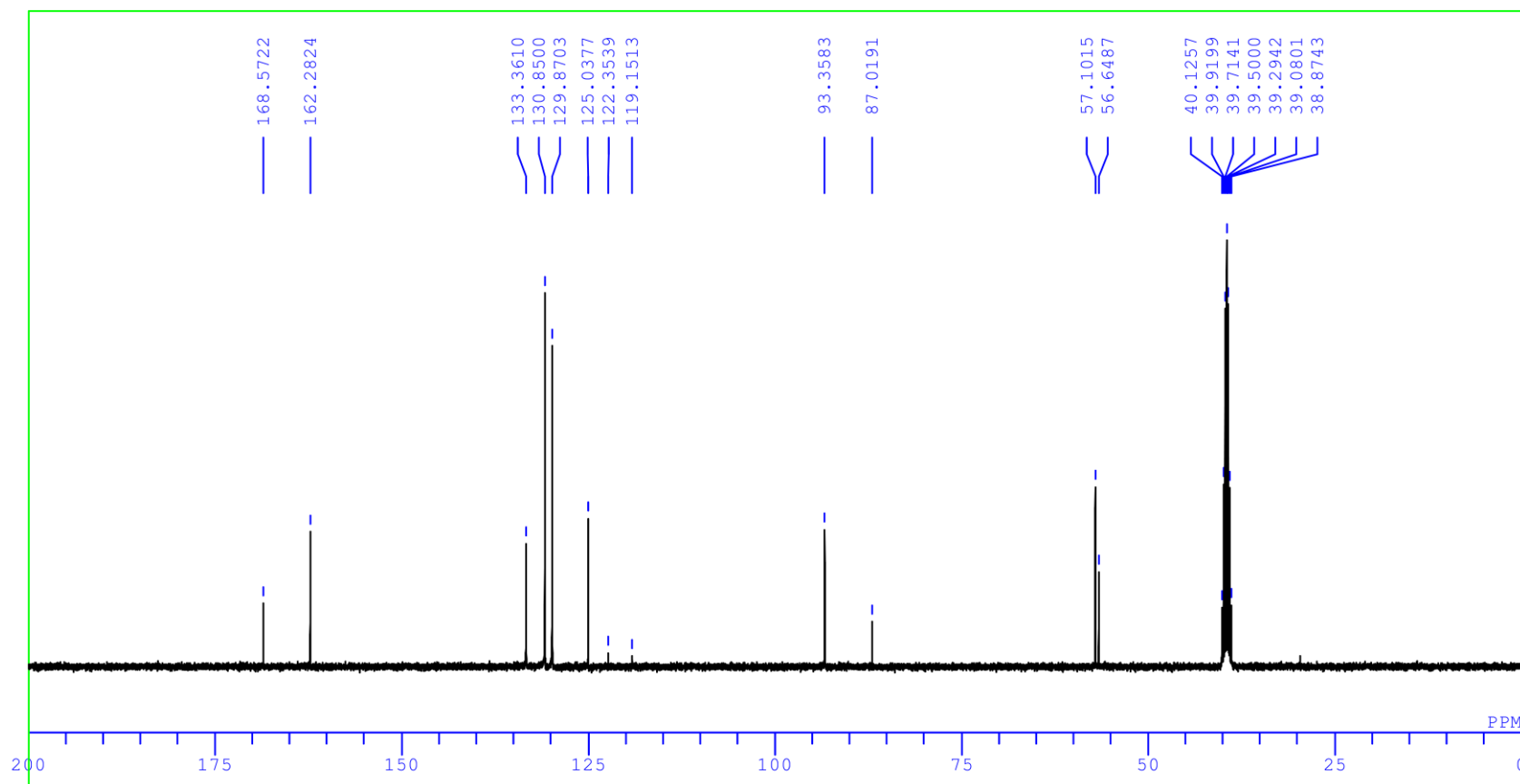
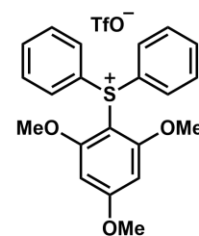
(2-Furyl)diphenylsulfonium triflate (3ah)
 ^{13}C NMR (100 MHz, $\text{DMSO}-d_6$)



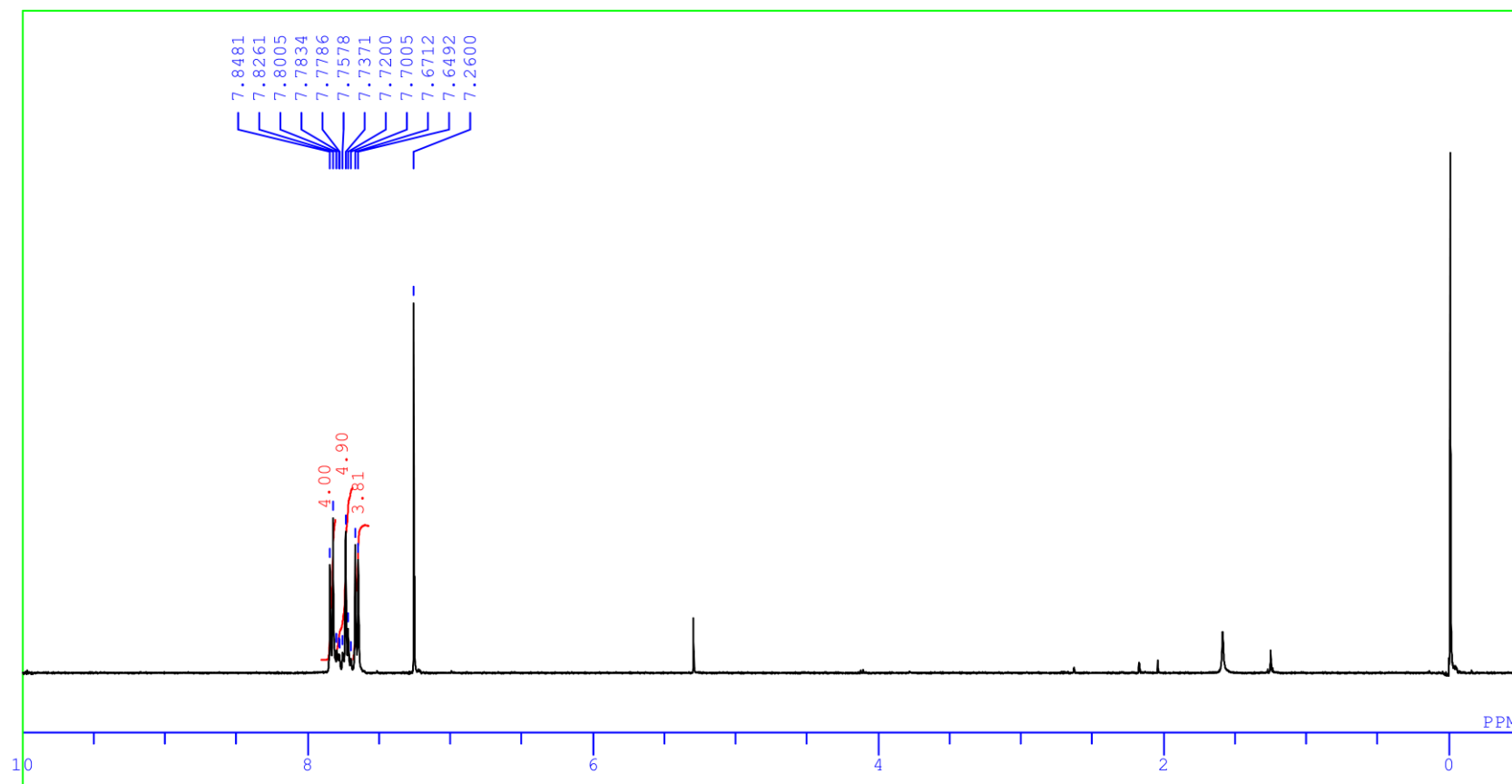
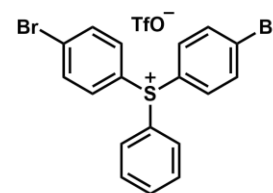
Diphenyl(2,4,6-trimethoxyphenyl)sulfonium
triflate (3aj, 3ib)
 ^1H NMR (400 MHz, CDCl_3)



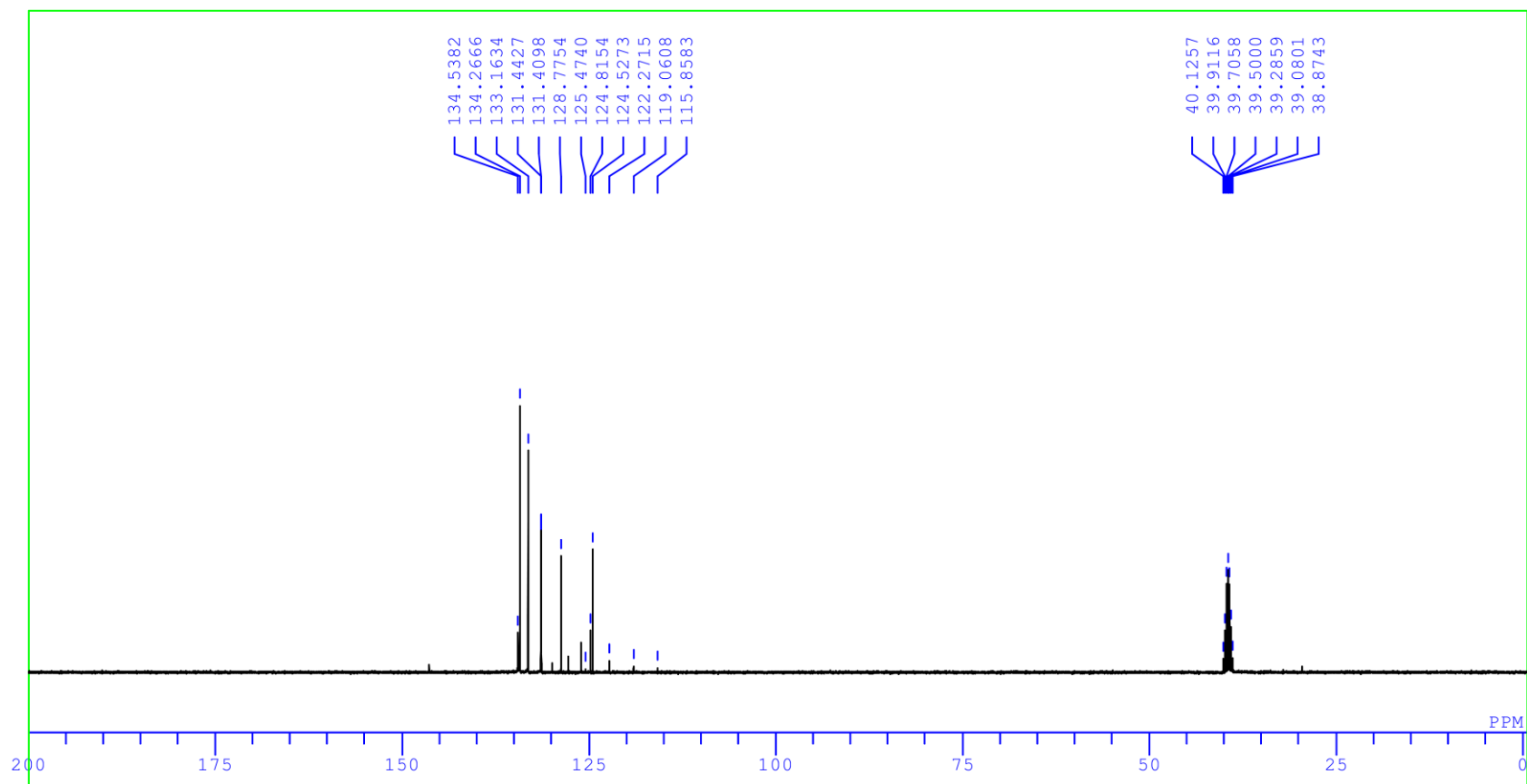
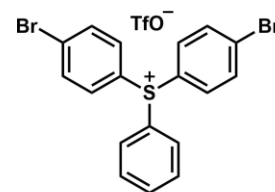
Diphenyl (2,4,6-trimethoxyphenyl) sulfonium
triflate (3aj, 3ib)
 ^{13}C NMR (100 MHz, $\text{DMSO}-d_6$)

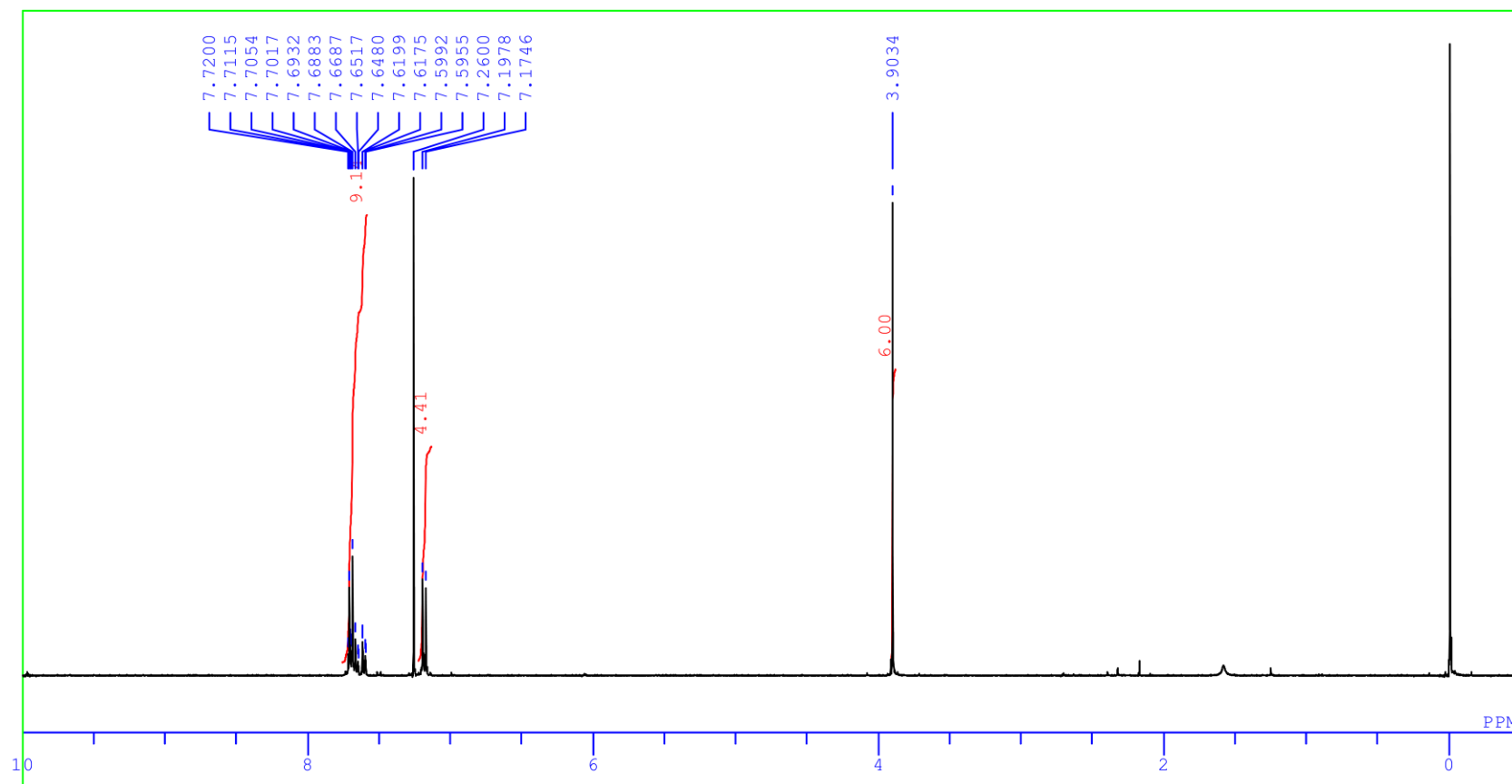
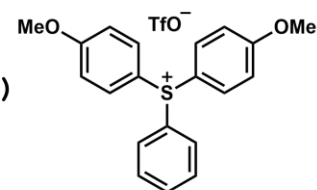


Bis(4-bromophenyl)phenylsulfonium triflate (3bb)
 ^1H NMR (400 MHz, CDCl_3)

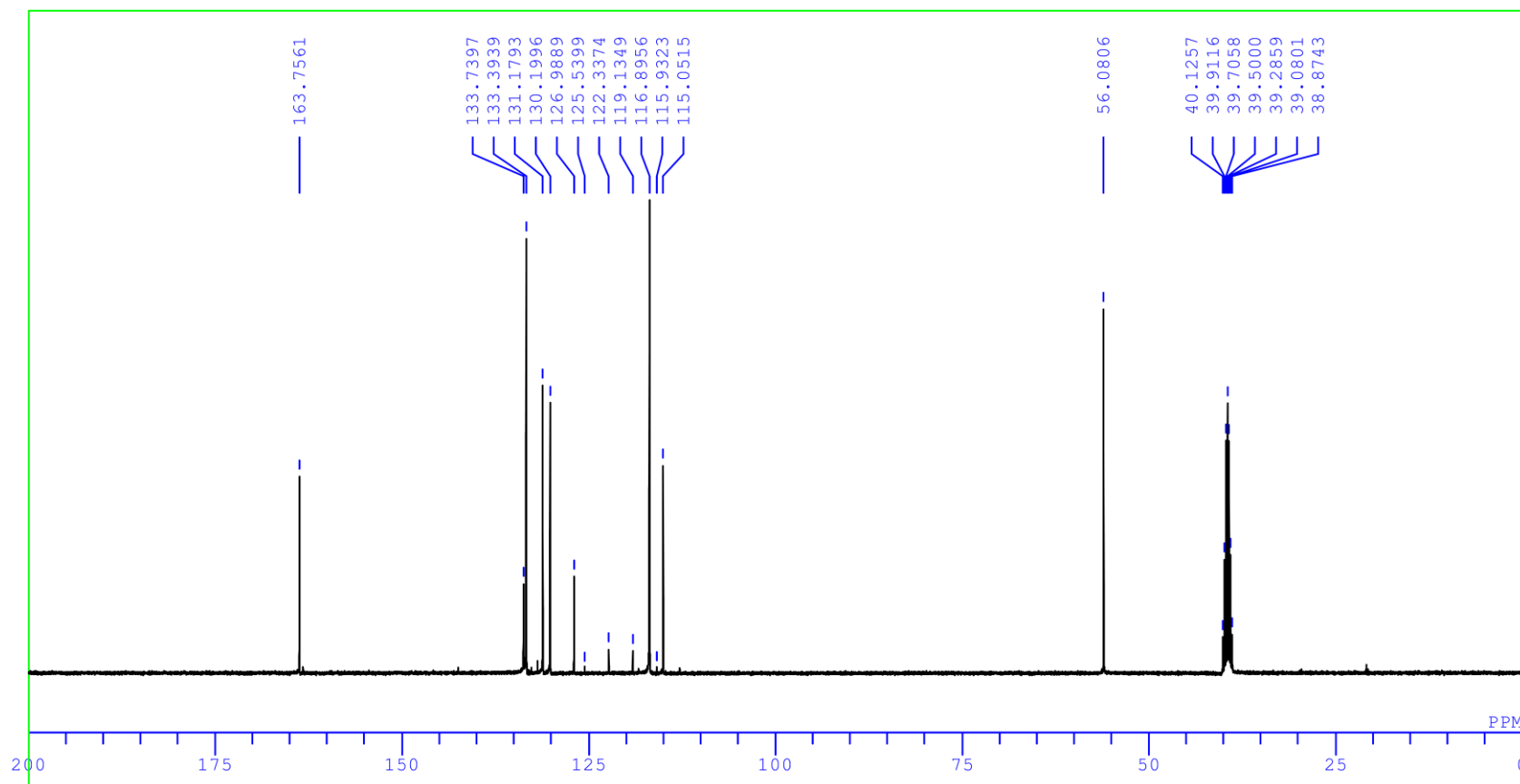
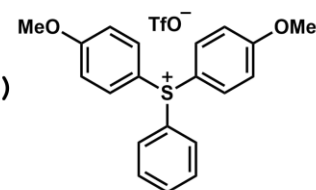


Bis(4-bromophenyl)phenylsulfonium triflate (3bb)
 ^{13}C NMR (100 MHz, $\text{DMSO}-d_6$)

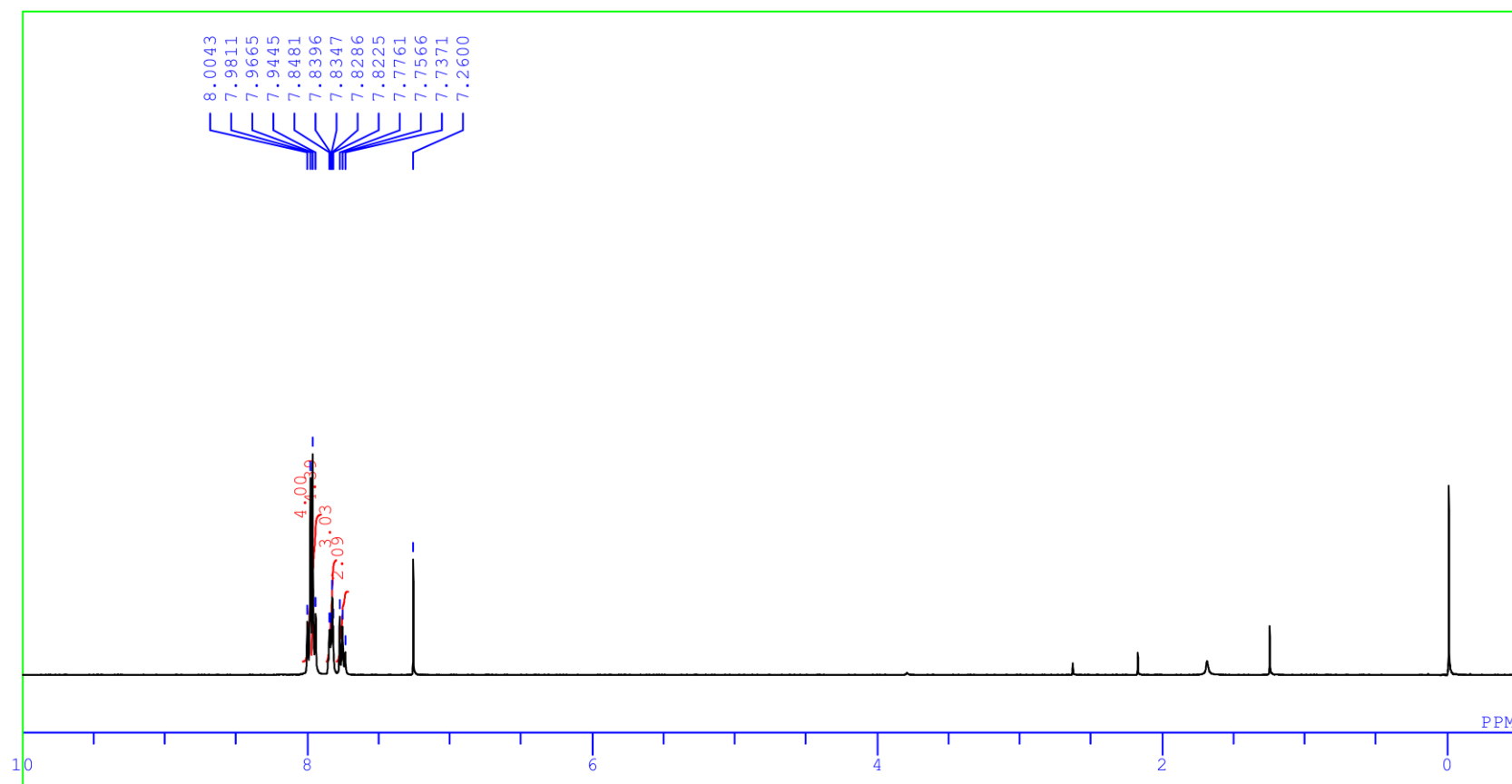
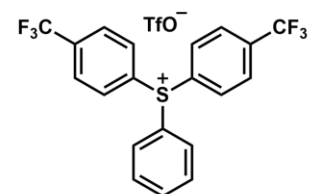


Bis(4-methoxyphenyl)phenylsulfonium triflate (3cb)¹H NMR (400 MHz, CDCl₃)

Bis(4-methoxyphenyl)phenylsulfonium triflate (3cb)
 ^{13}C NMR (100 MHz, $\text{DMSO}-d_6$)

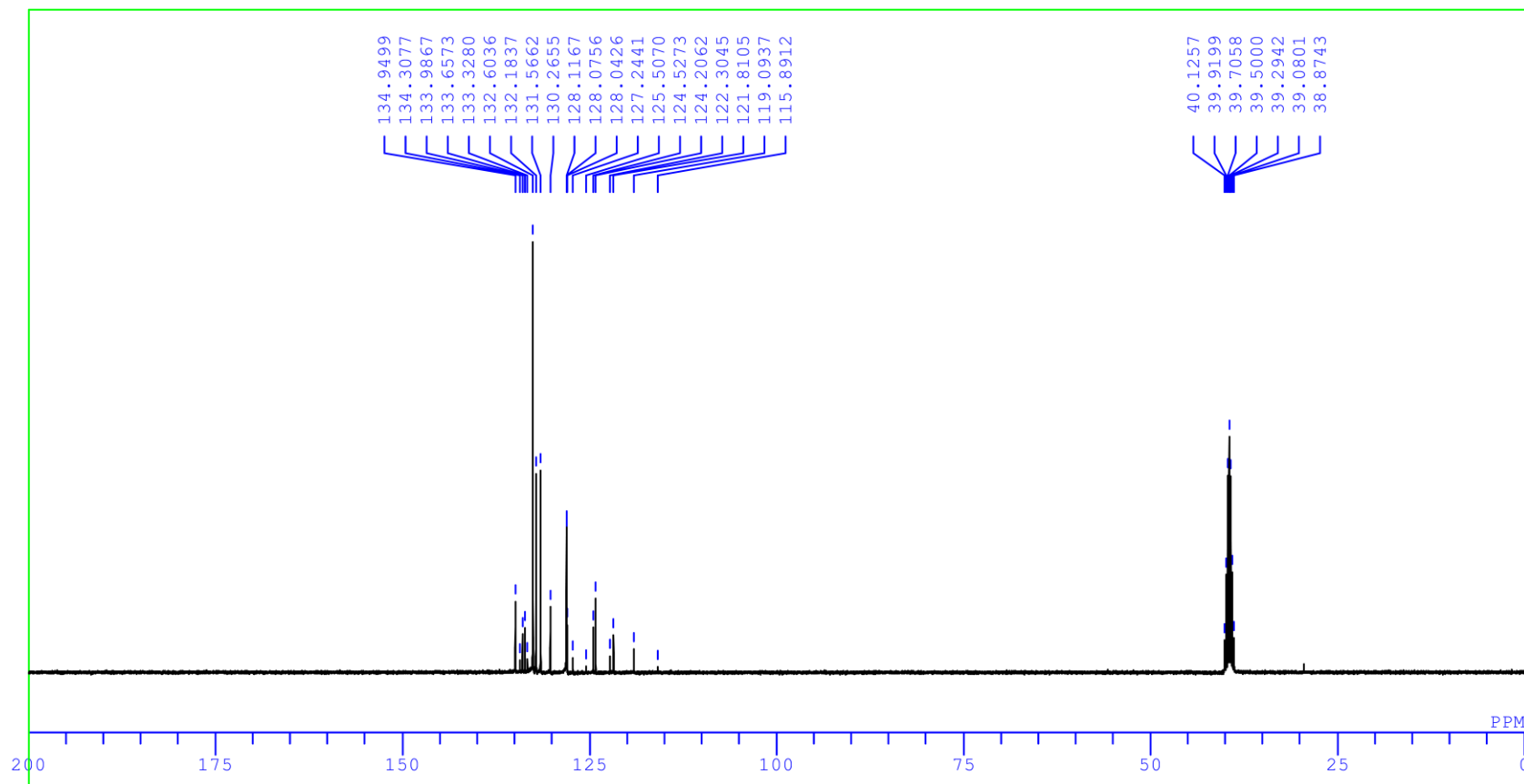
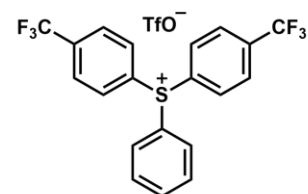


Bis(4-trifluoromethylphenyl)phenylsulfonium
triflate (3db)
 ^1H NMR (400 MHz, CDCl_3)

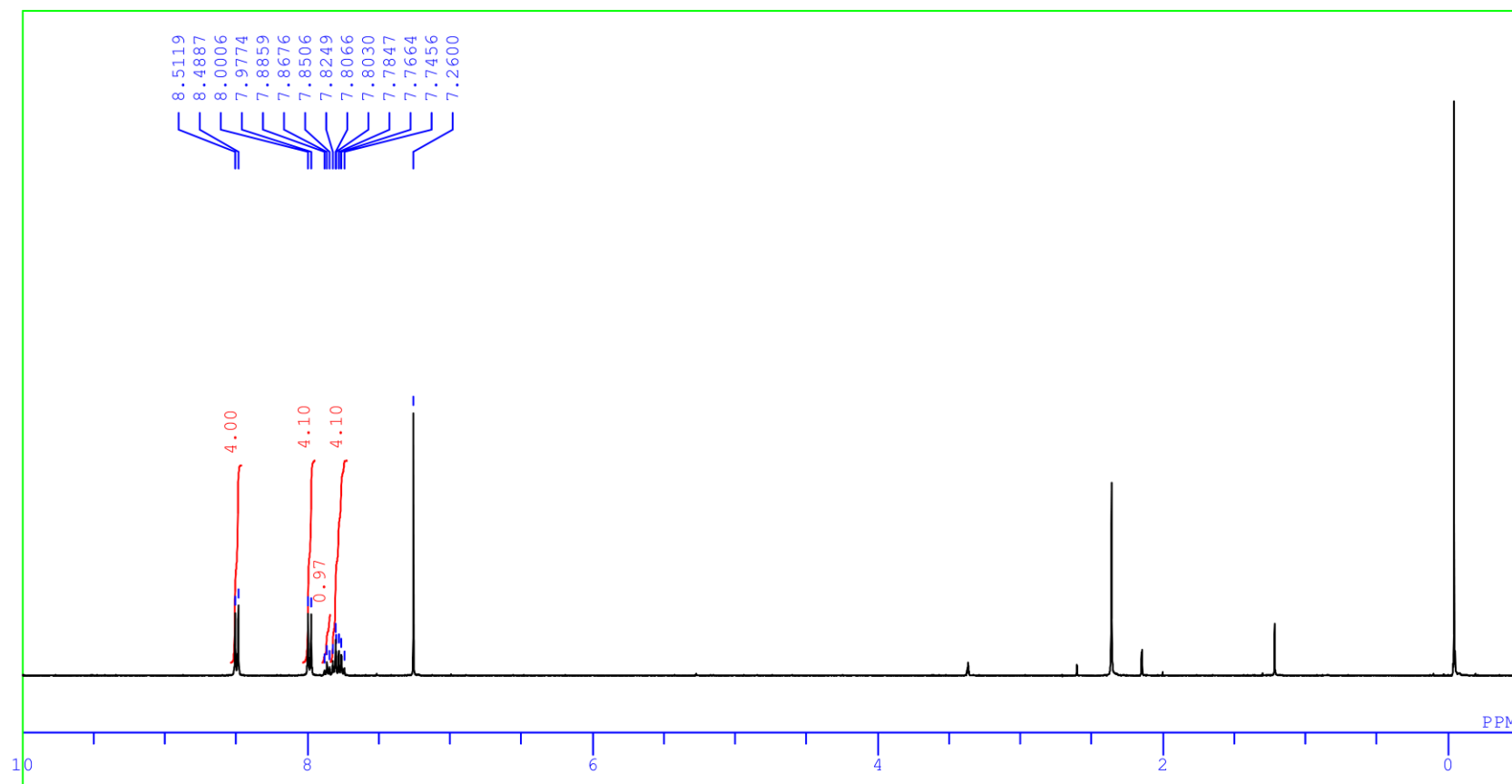
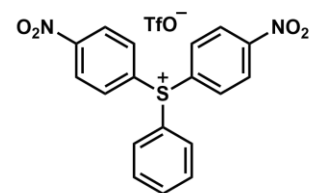


Bis(4-trifluoromethylphenyl)phenylsulfonium
triflate (3db)

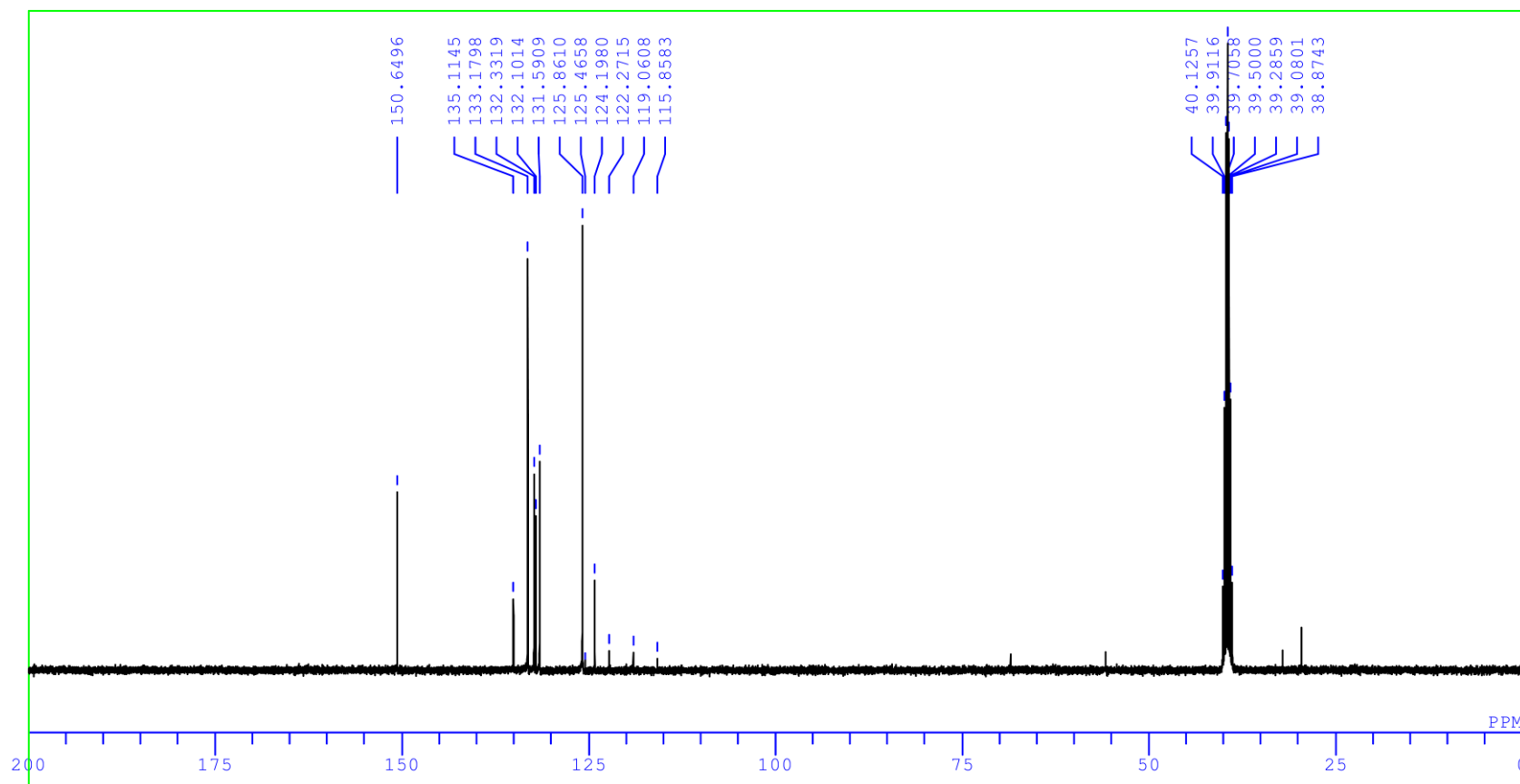
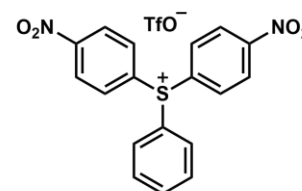
^{13}C NMR (100 MHz, $\text{DMSO}-d_6$)



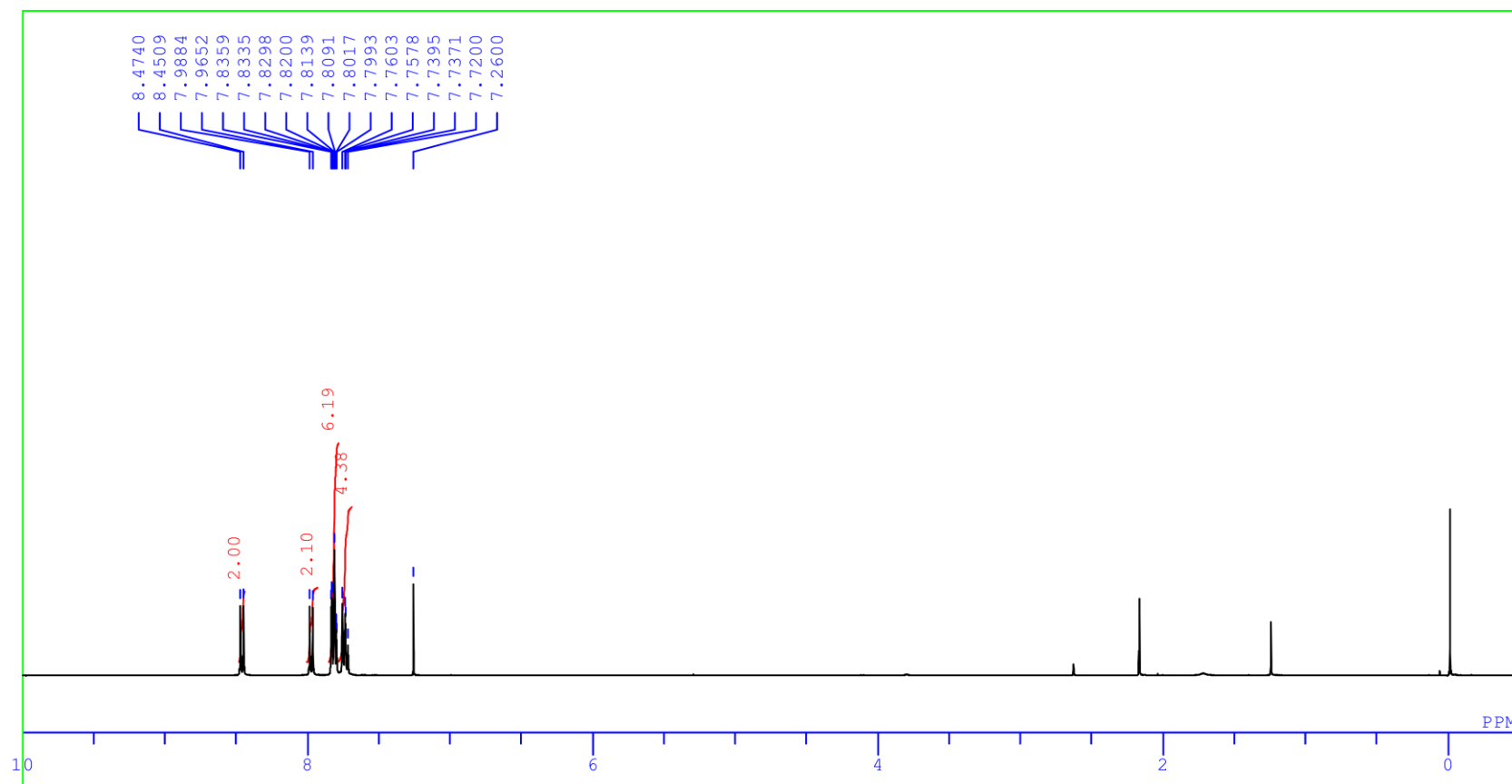
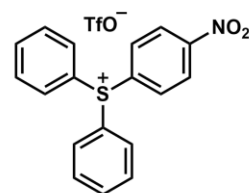
Bis(4-nitrophenyl)phenylsulfonium triflate (3eb)
 ^1H NMR (400 MHz, CDCl_3)



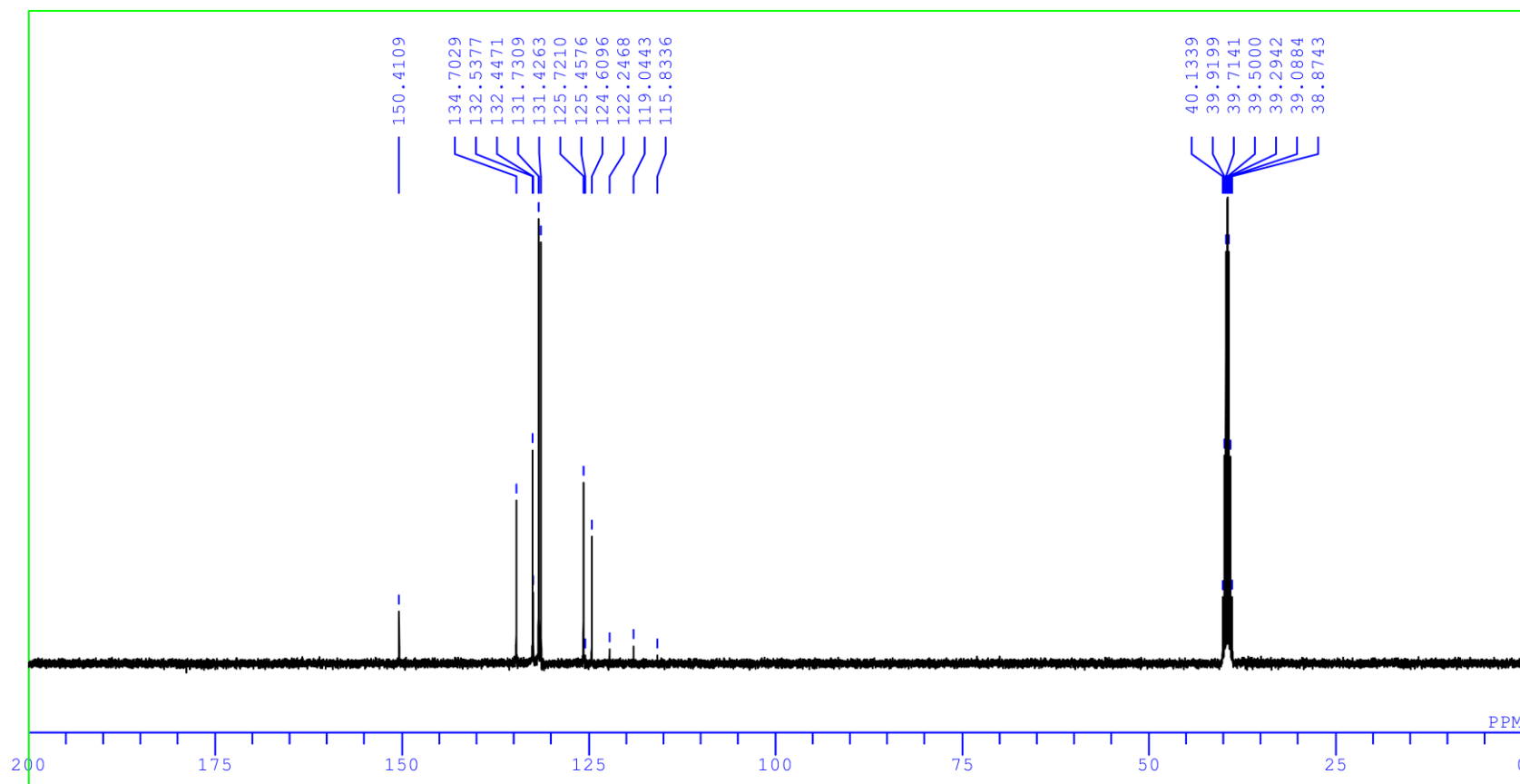
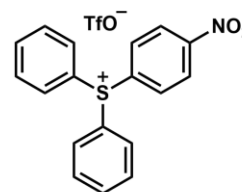
Bis(4-nitrophenyl)phenylsulfonium triflate (3eb)
 ^{13}C NMR (100 MHz, $\text{DMSO}-d_6$)



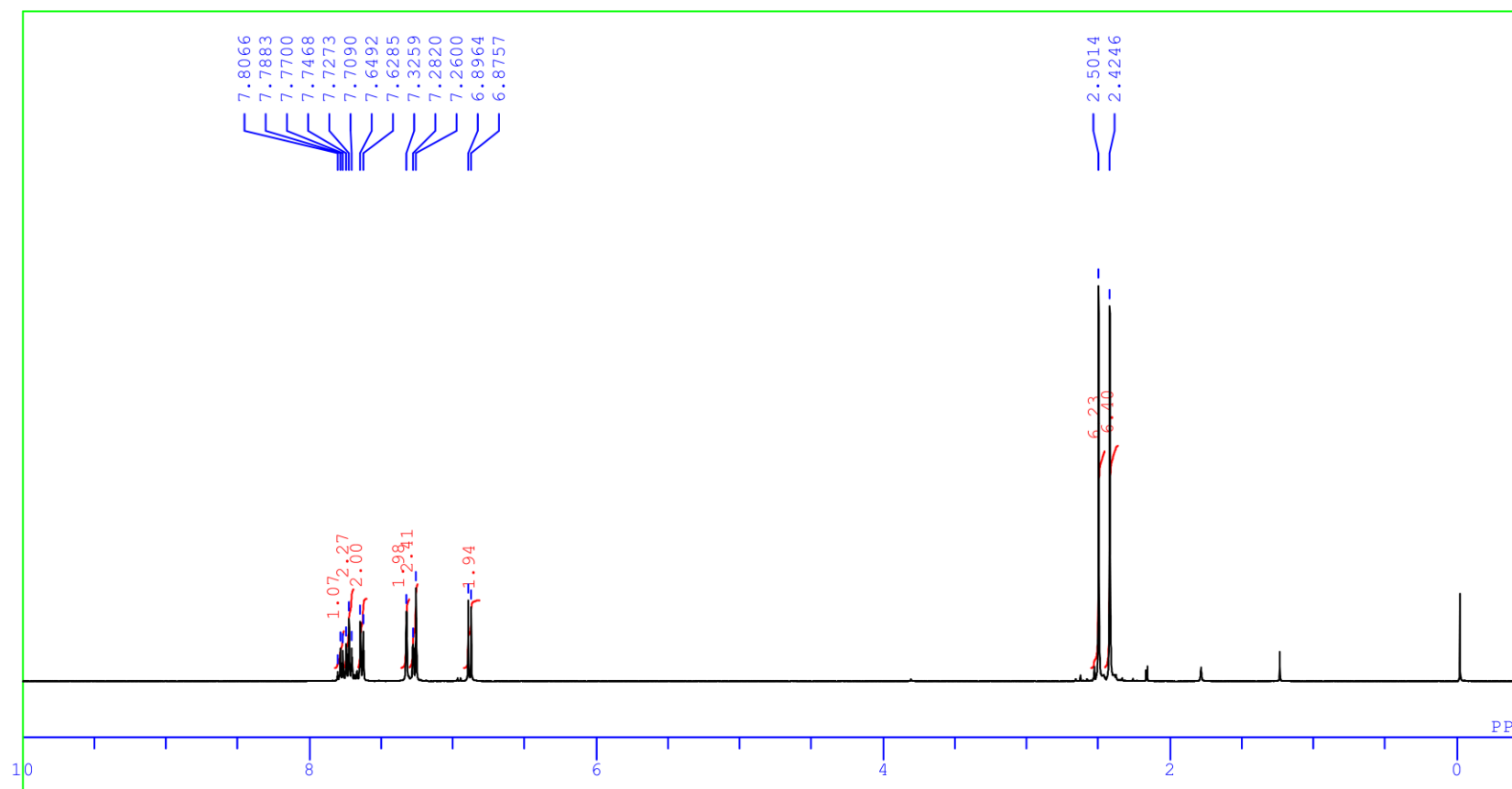
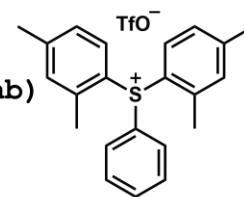
(4-Nitrophenyl)diphenylsulfonium triflate (3fb)
 ^1H NMR (400 MHz, CDCl_3)



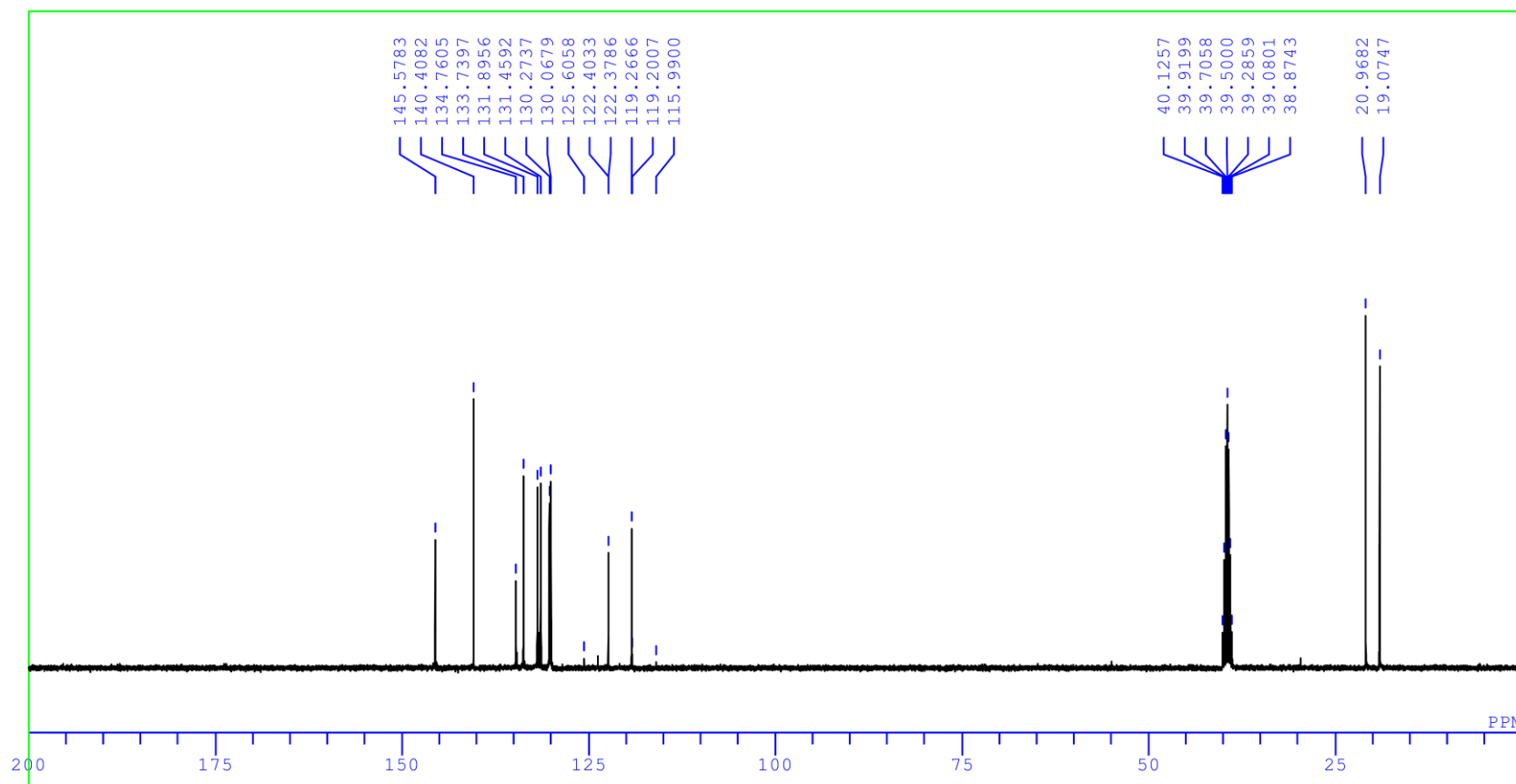
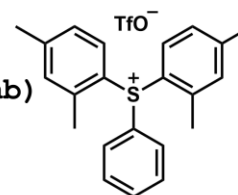
(4-Nitrophenyl)diphenylsulfonium triflate (3fb)
 ^{13}C NMR (100 MHz, $\text{DMSO}-d_6$)



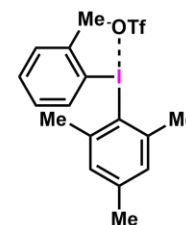
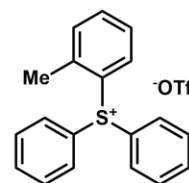
Bis(2,4-dimethylphenyl)phenylsulfonium triflate (3hb)

 ^1H NMR (400 MHz, CDCl_3)

Bis(2,4-dimethylphenyl)phenylsulfonium triflate (3hb)
 ^{13}C NMR (100 MHz, $\text{DMSO}-d_6$)



Diphenyl(*o*-tolyl)sulfonium triflate (3ak)
 ^1H NMR (400 MHz, CDCl_3)



2k

