

Supporting Information for
Nickel-Catalyzed Cyanation of Phenol Derivatives with Zn(CN)₂ Involving C-O Bond
Cleavage

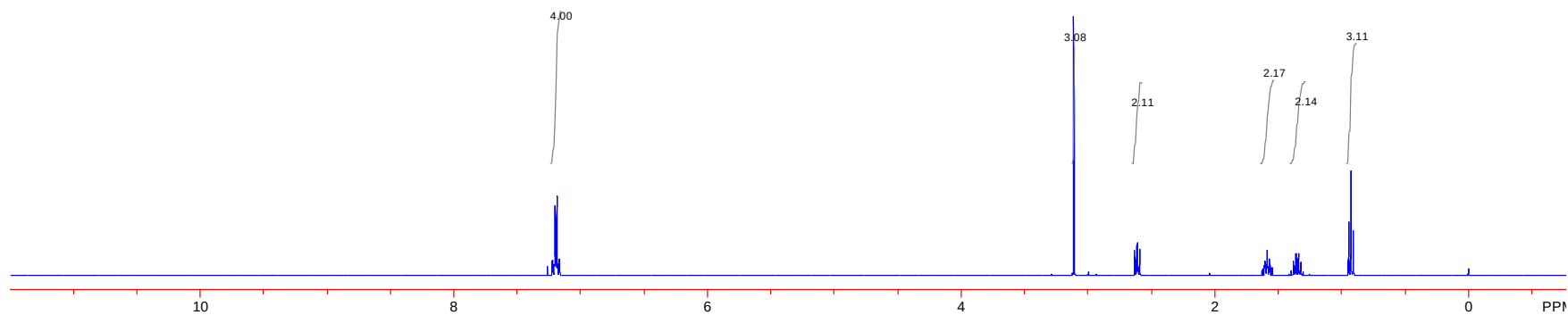
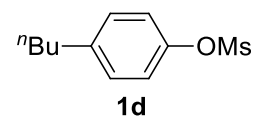
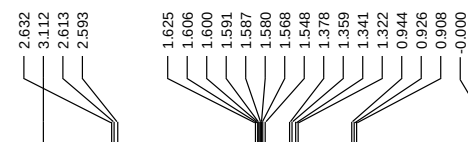
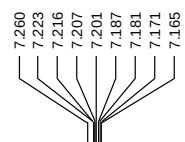
Yi Gan, Gaonan Wang, Xin Xie and Yuanhong Liu*

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Synthesis, Shanghai Institute of Organic Chemistry, University of Chinese Academy of
Sciences, Chinese Academy of Sciences, 345 Lingling Lu, Shanghai 200032, People's
Republic of China*

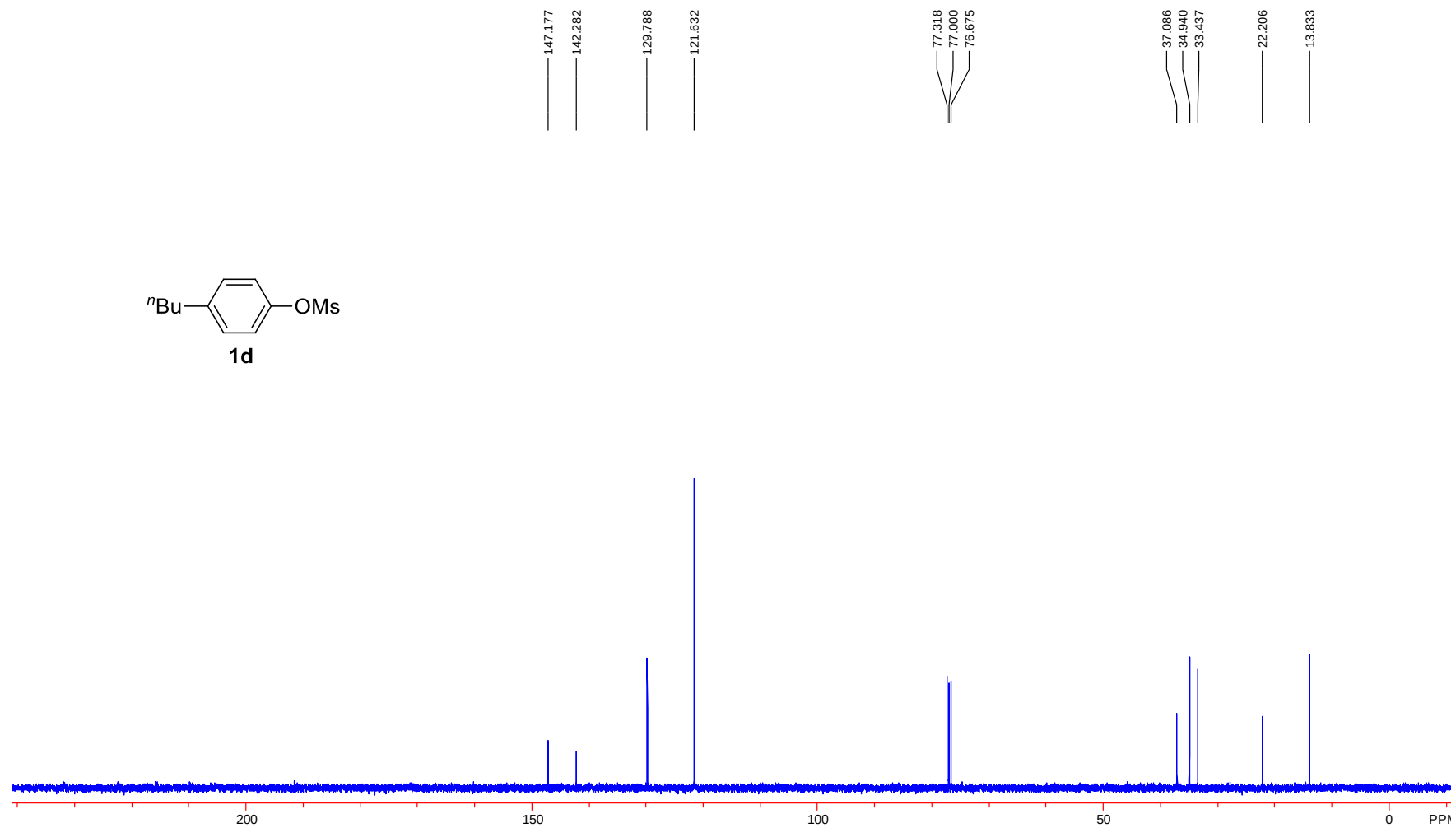
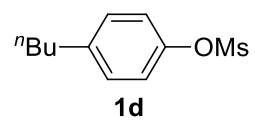
Fax: (+86) 021-64166128, E-mail: yhliu@sioc.ac.cn

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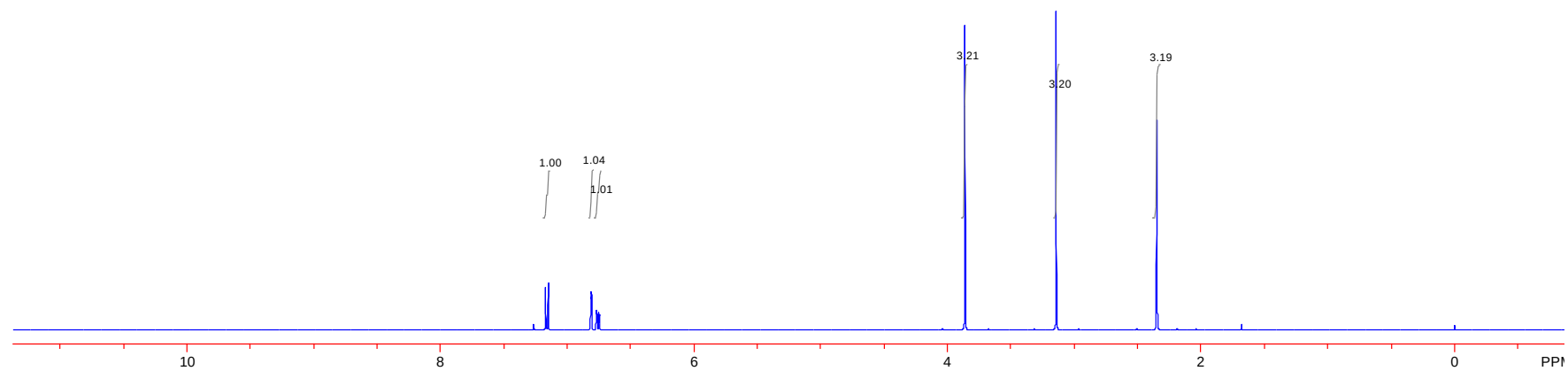
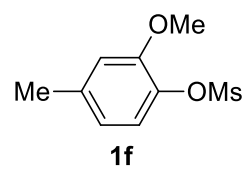
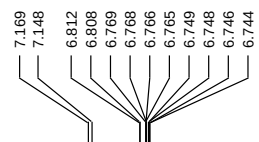
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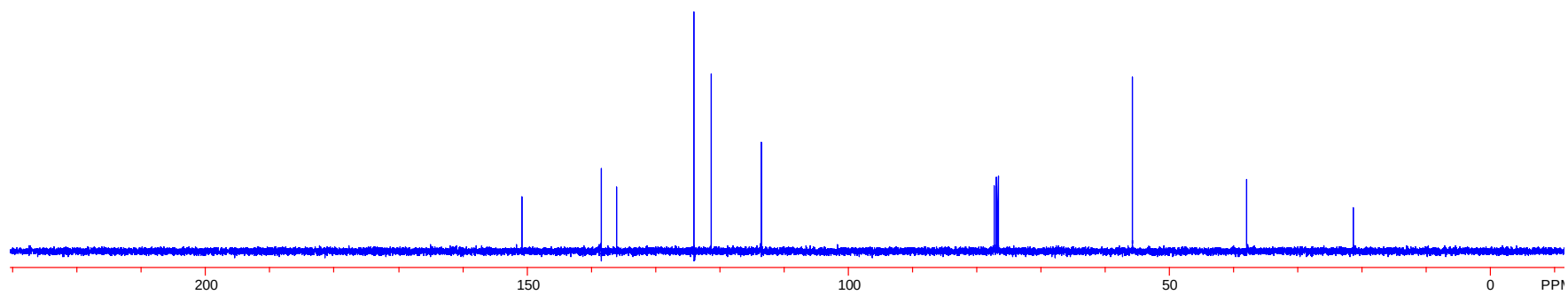
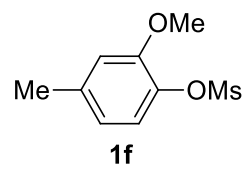
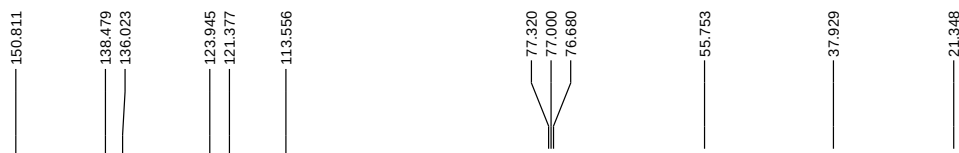
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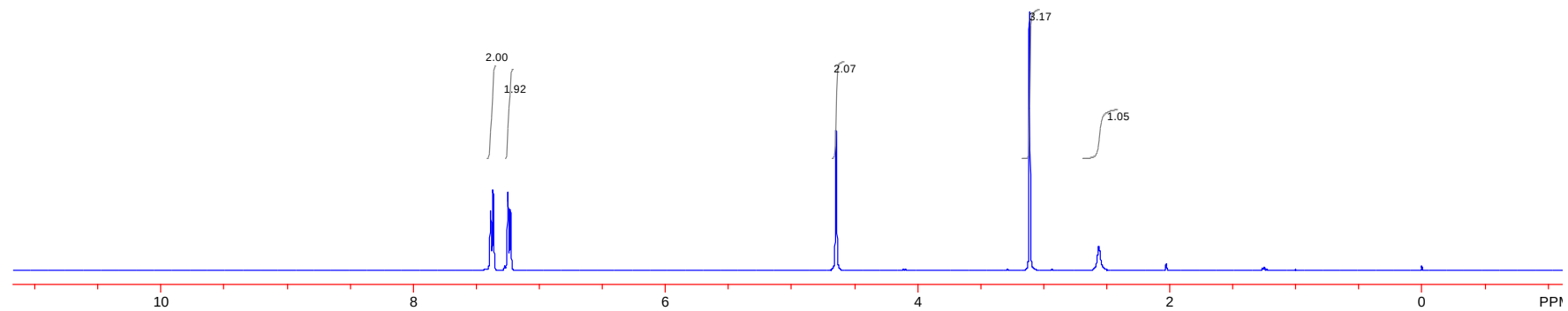
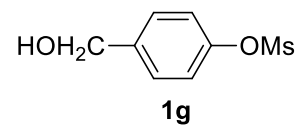
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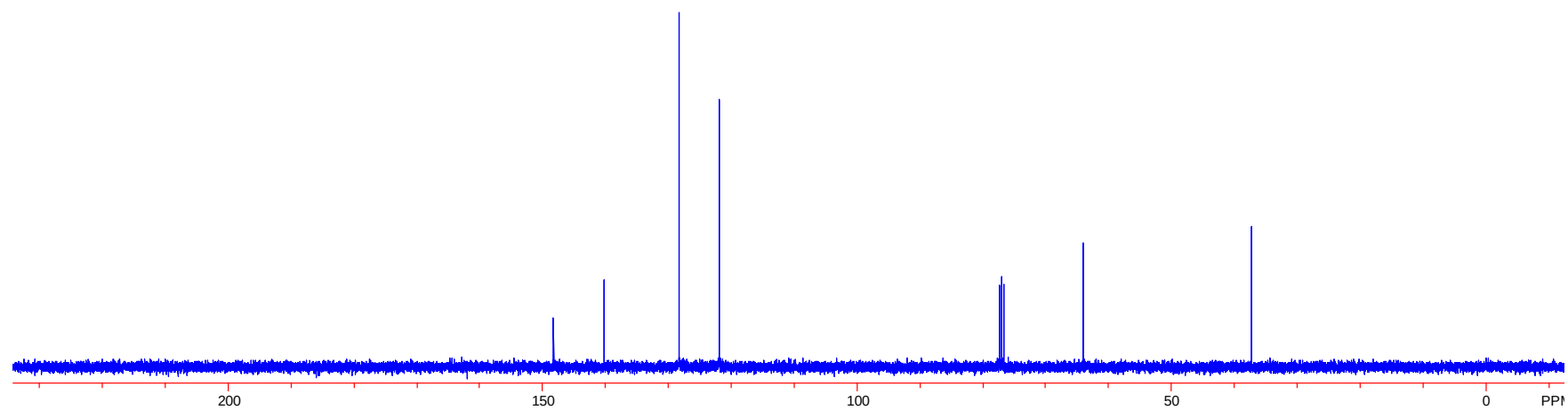
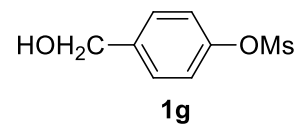
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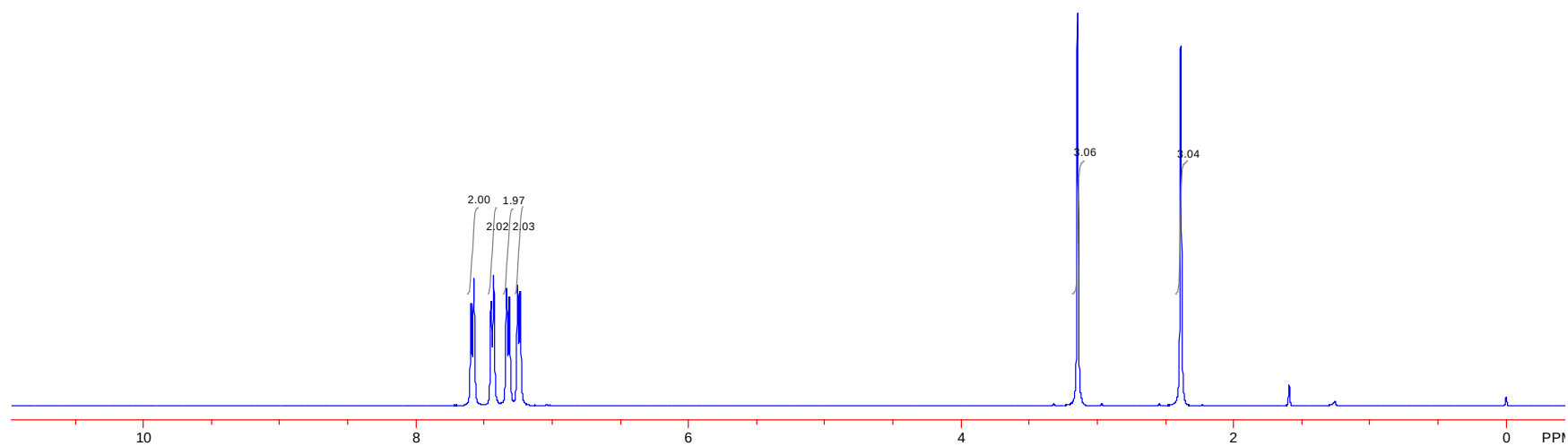
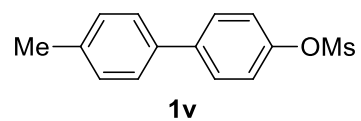
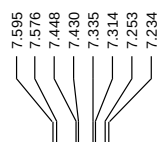
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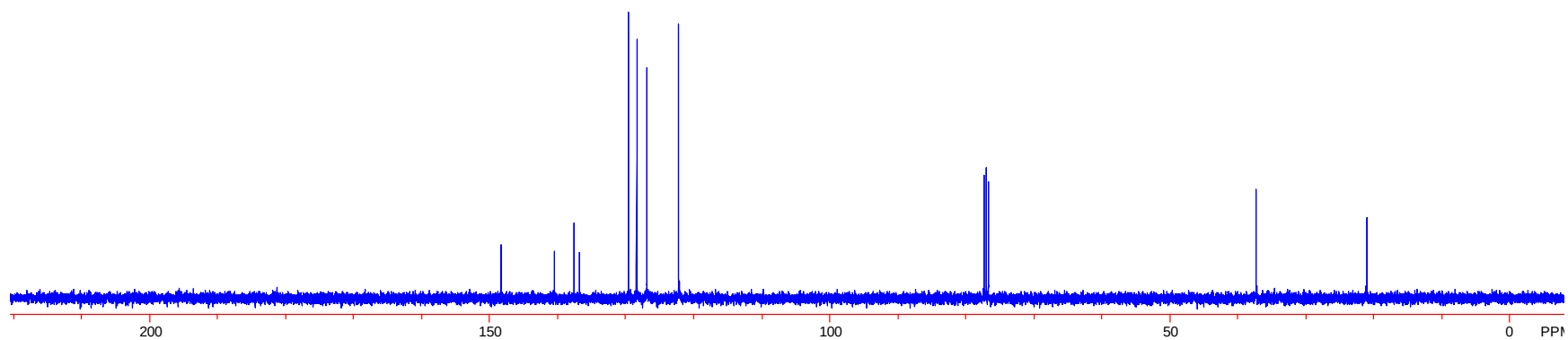
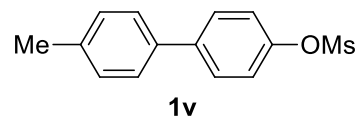
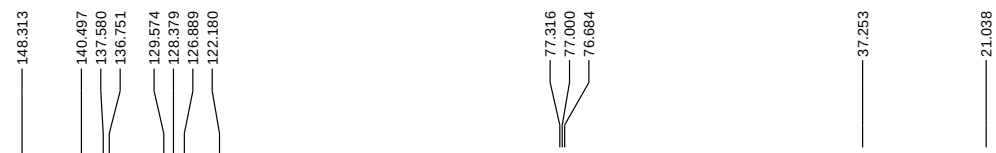
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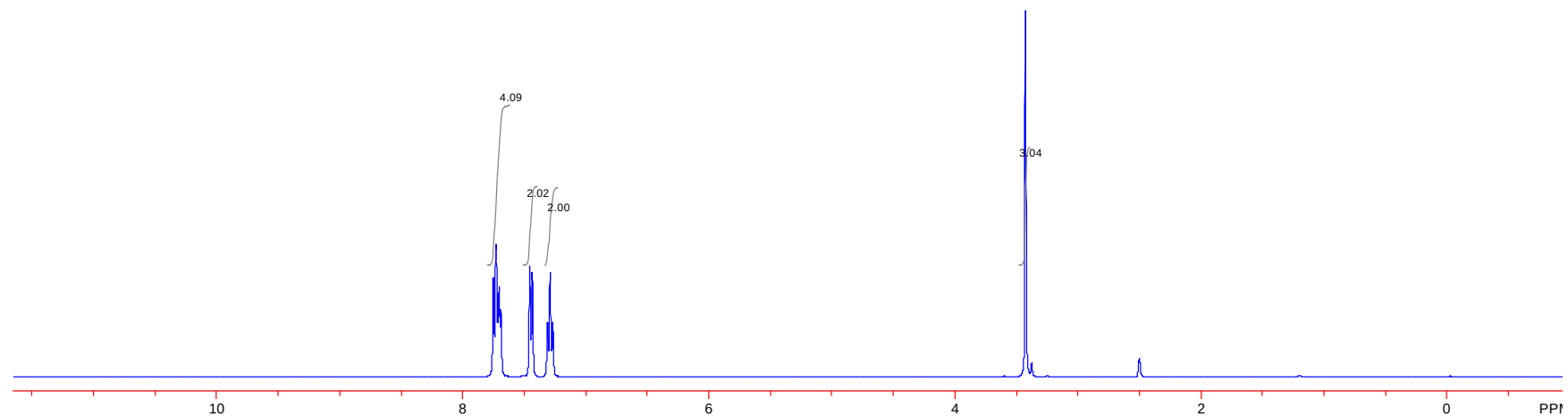
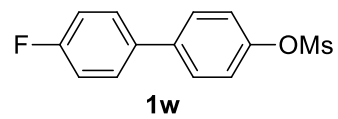
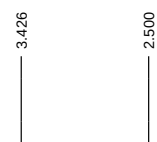
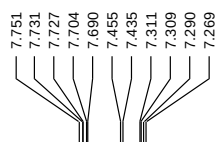
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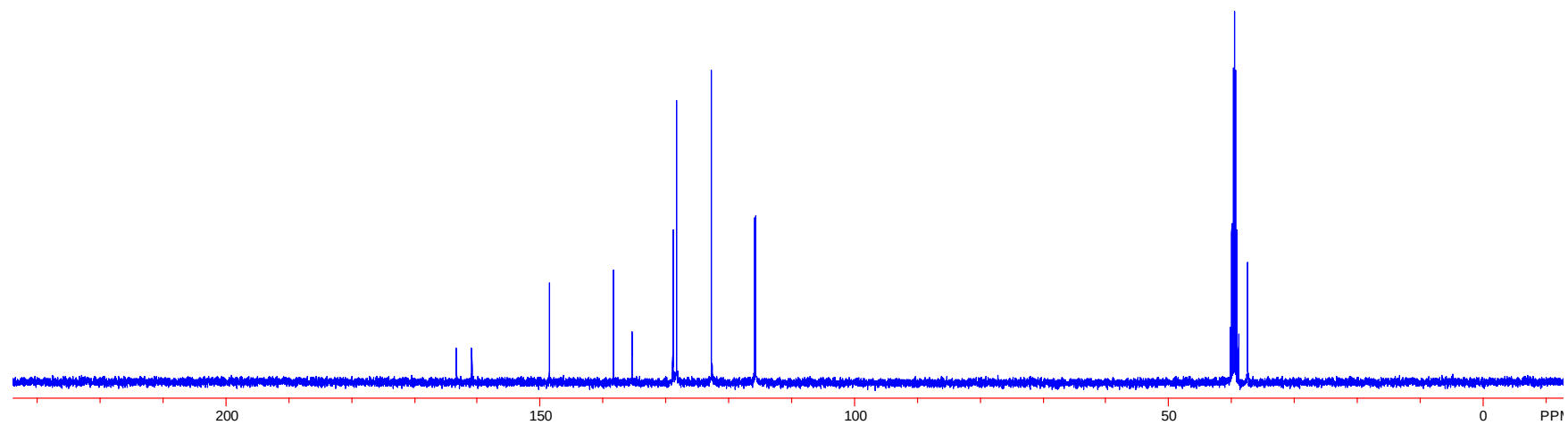
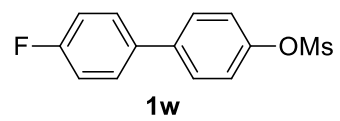
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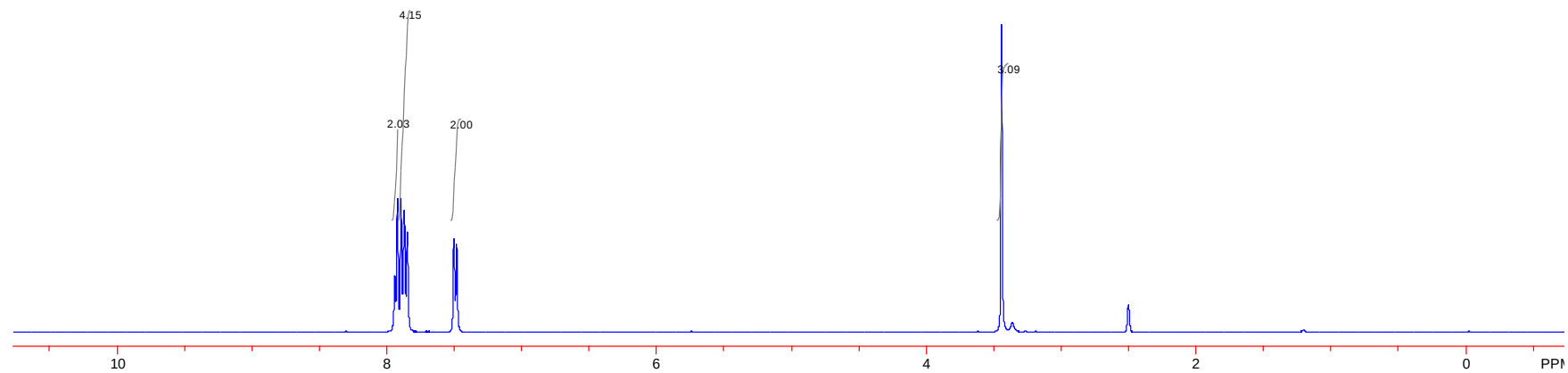
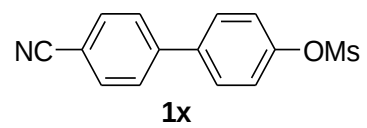
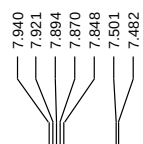
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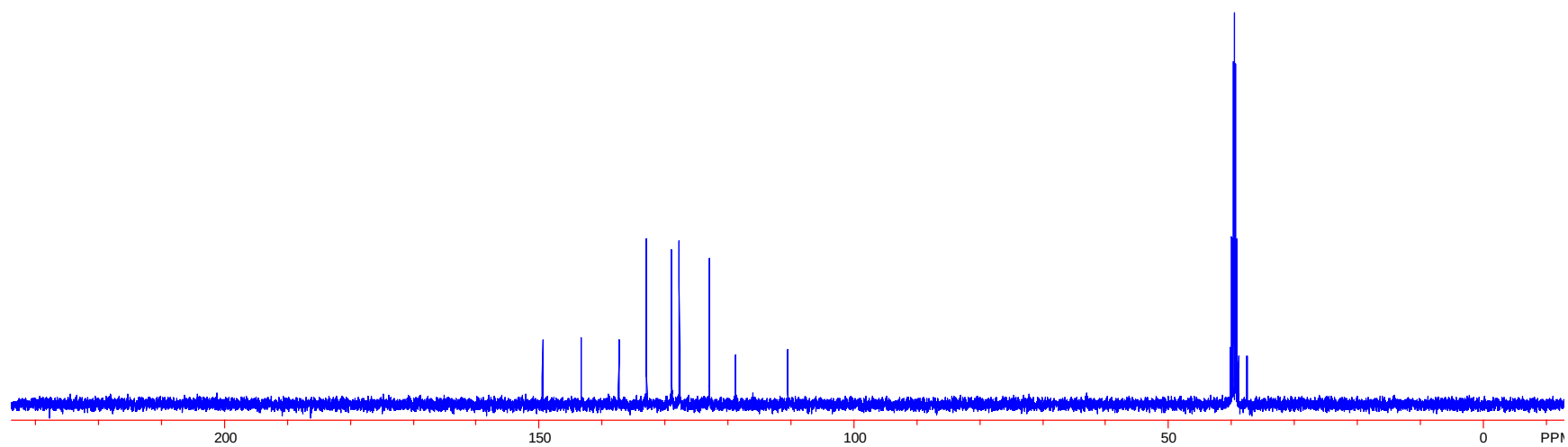
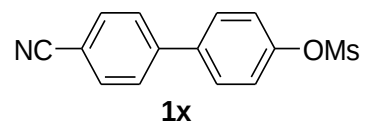
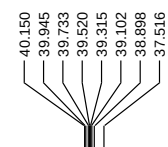
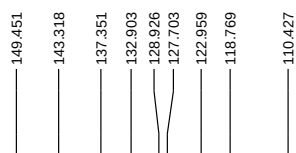
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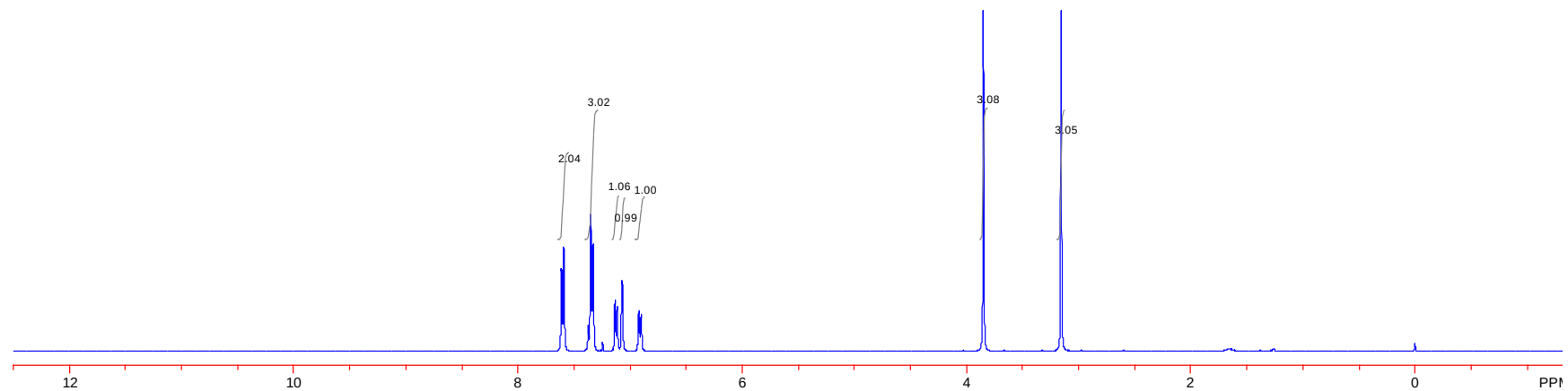
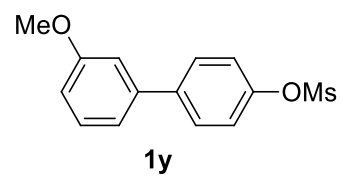
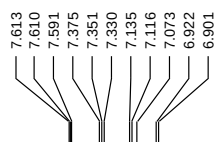
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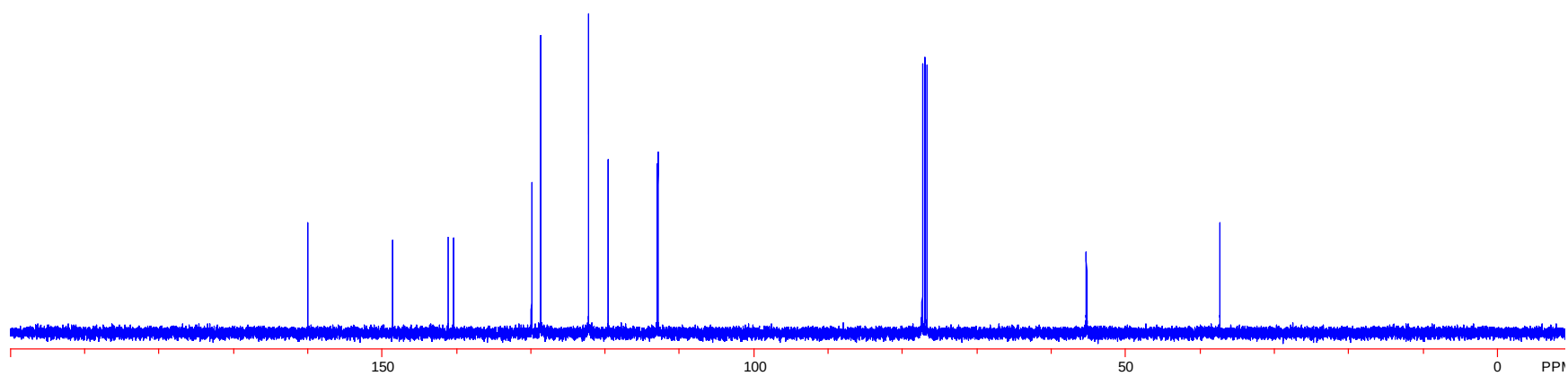
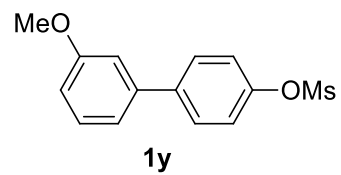
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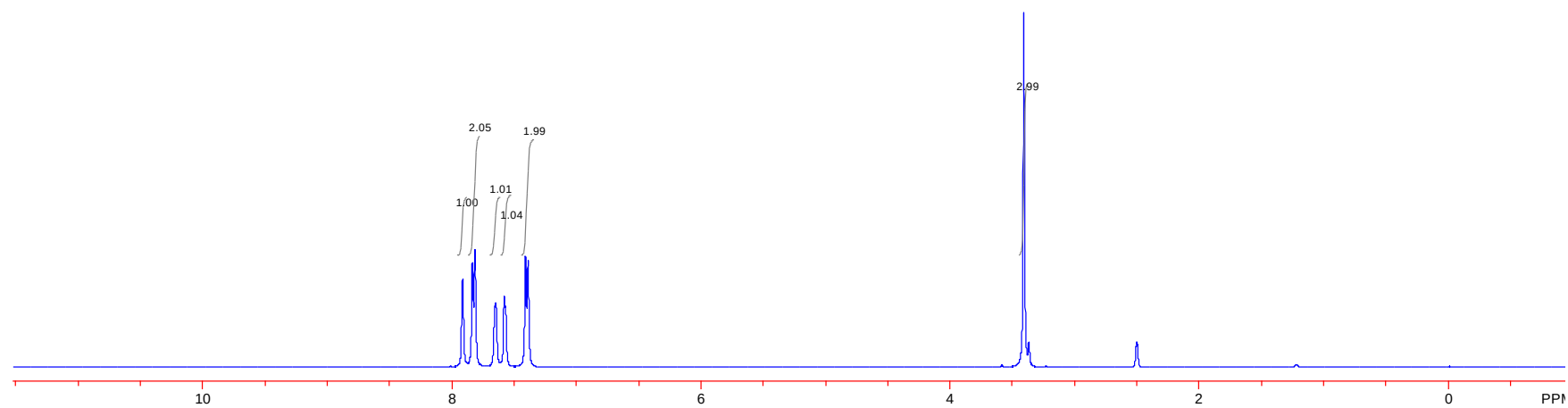
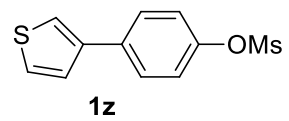
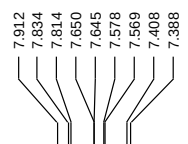
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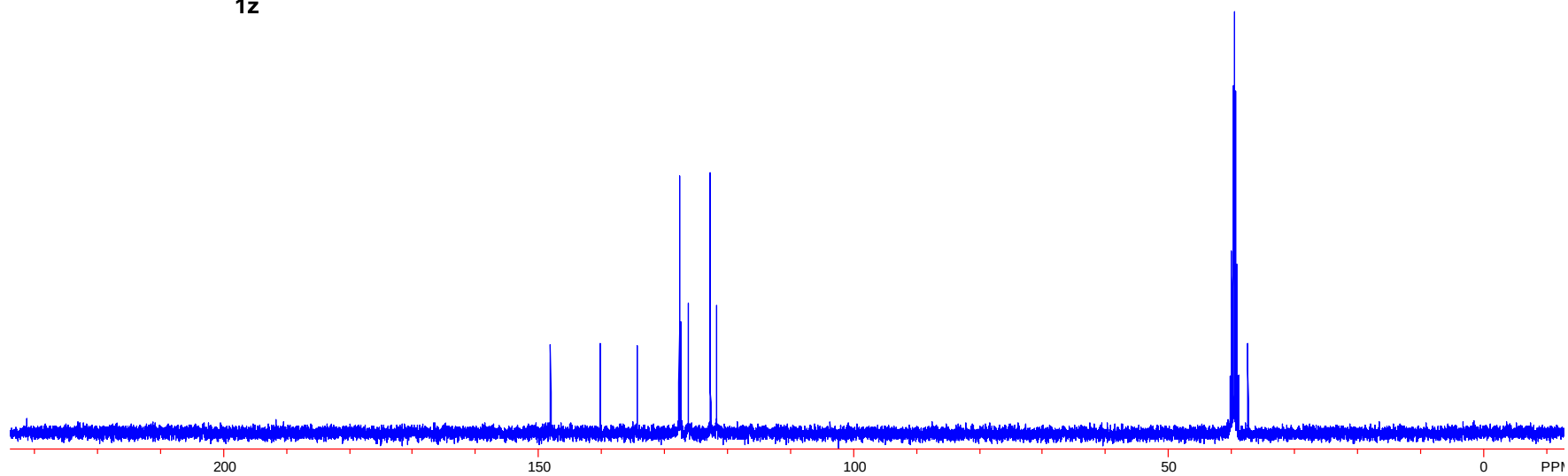
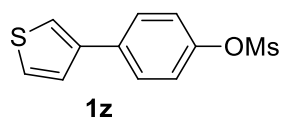
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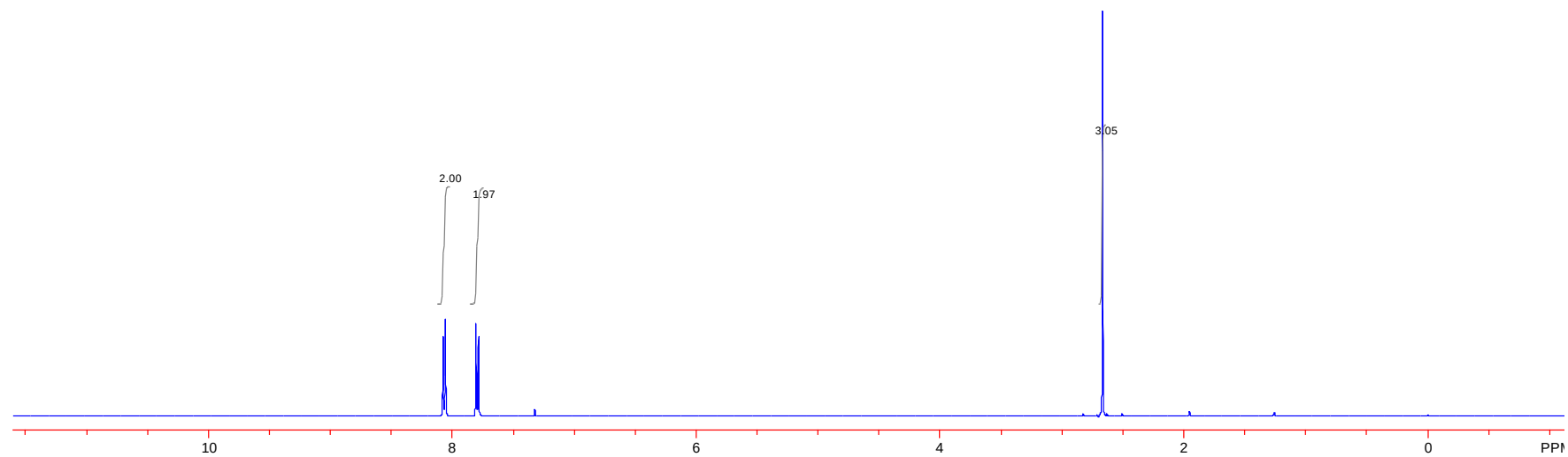
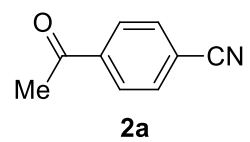
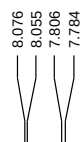
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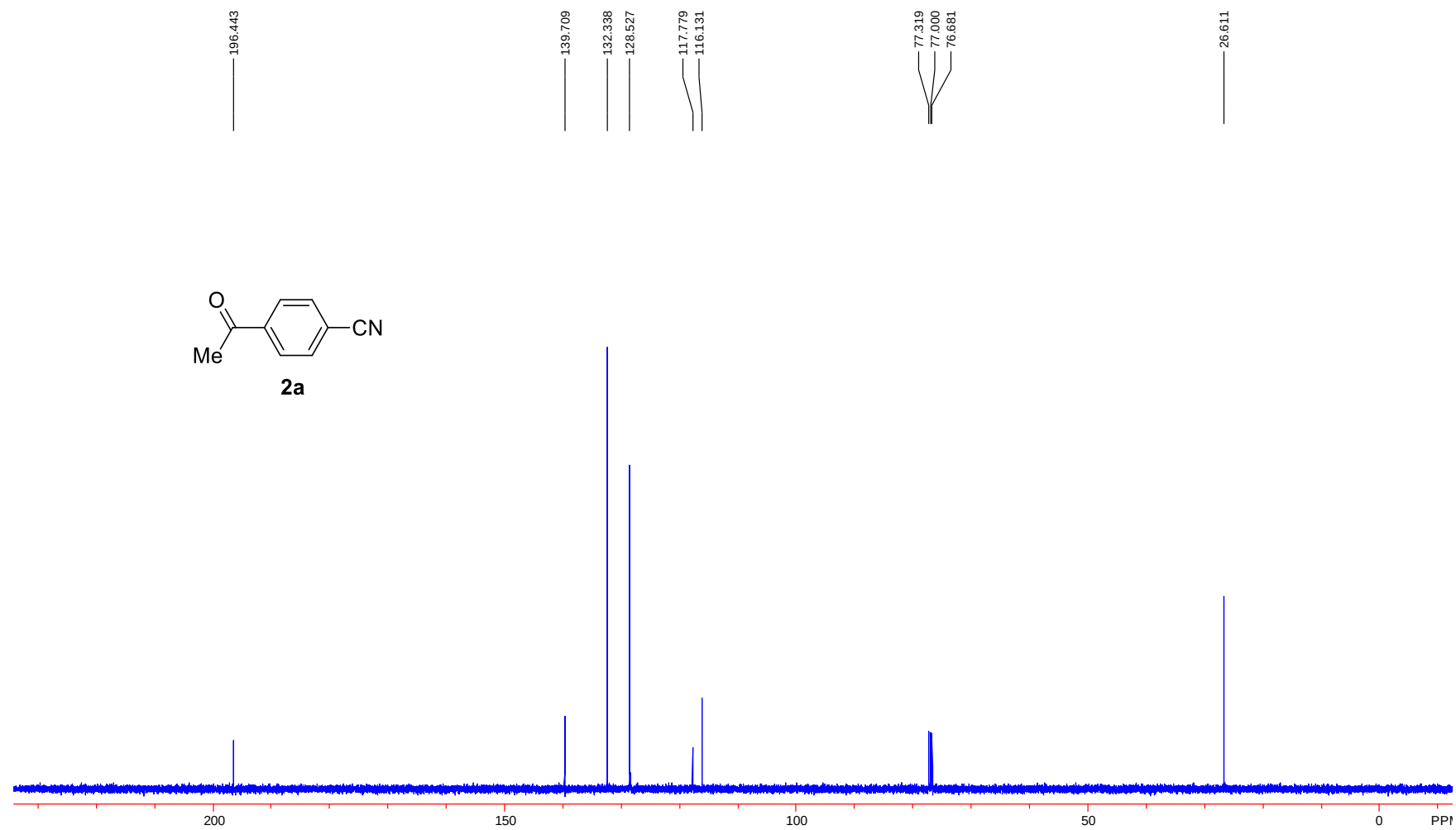
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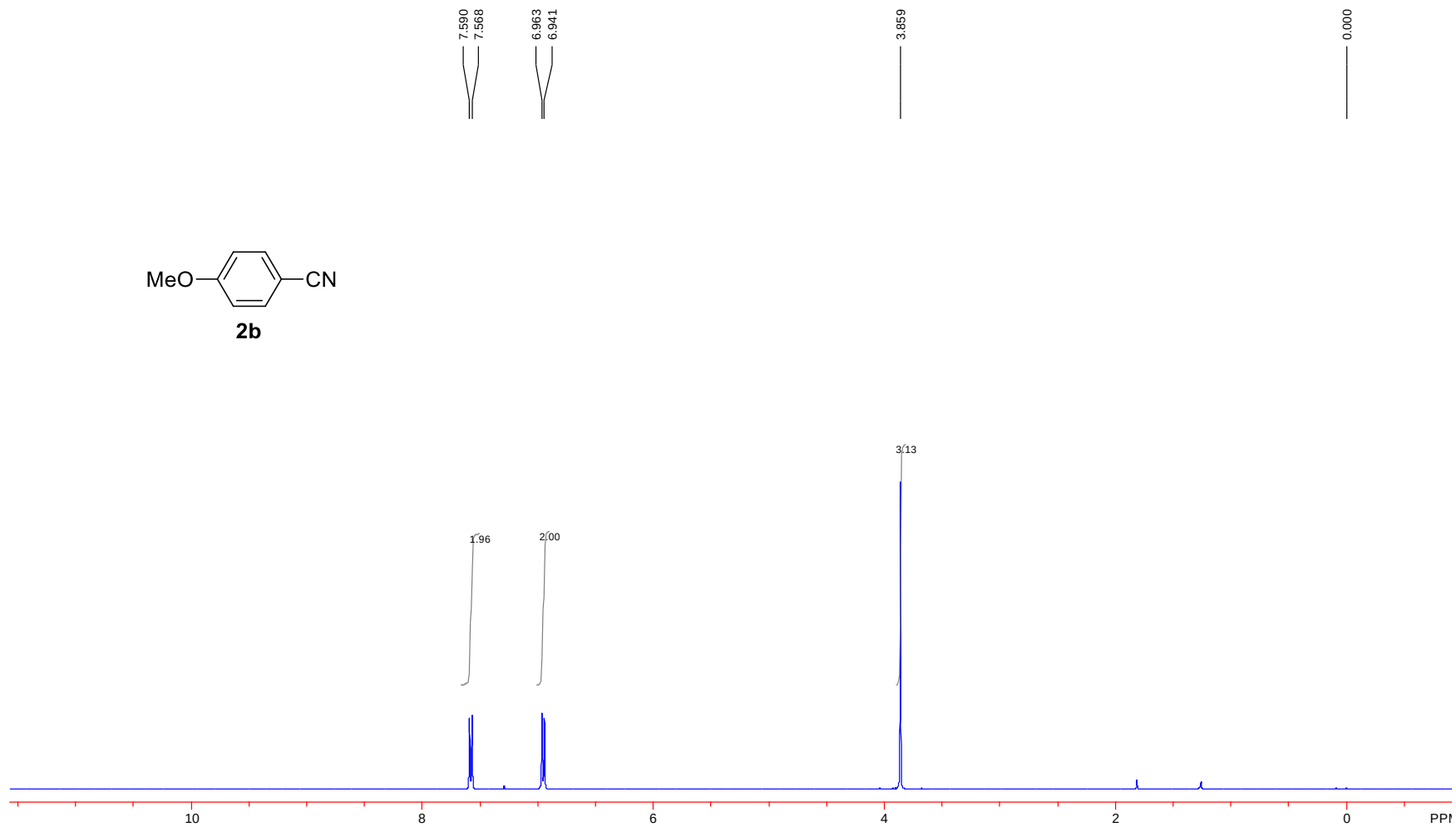
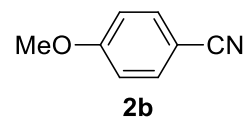
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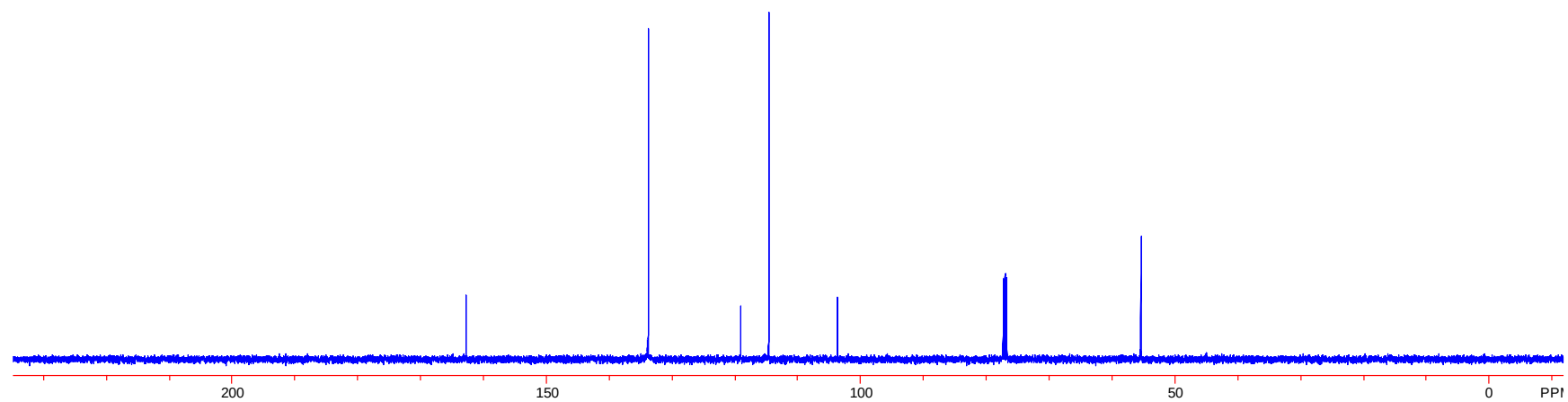
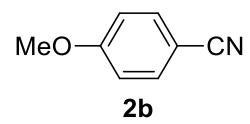
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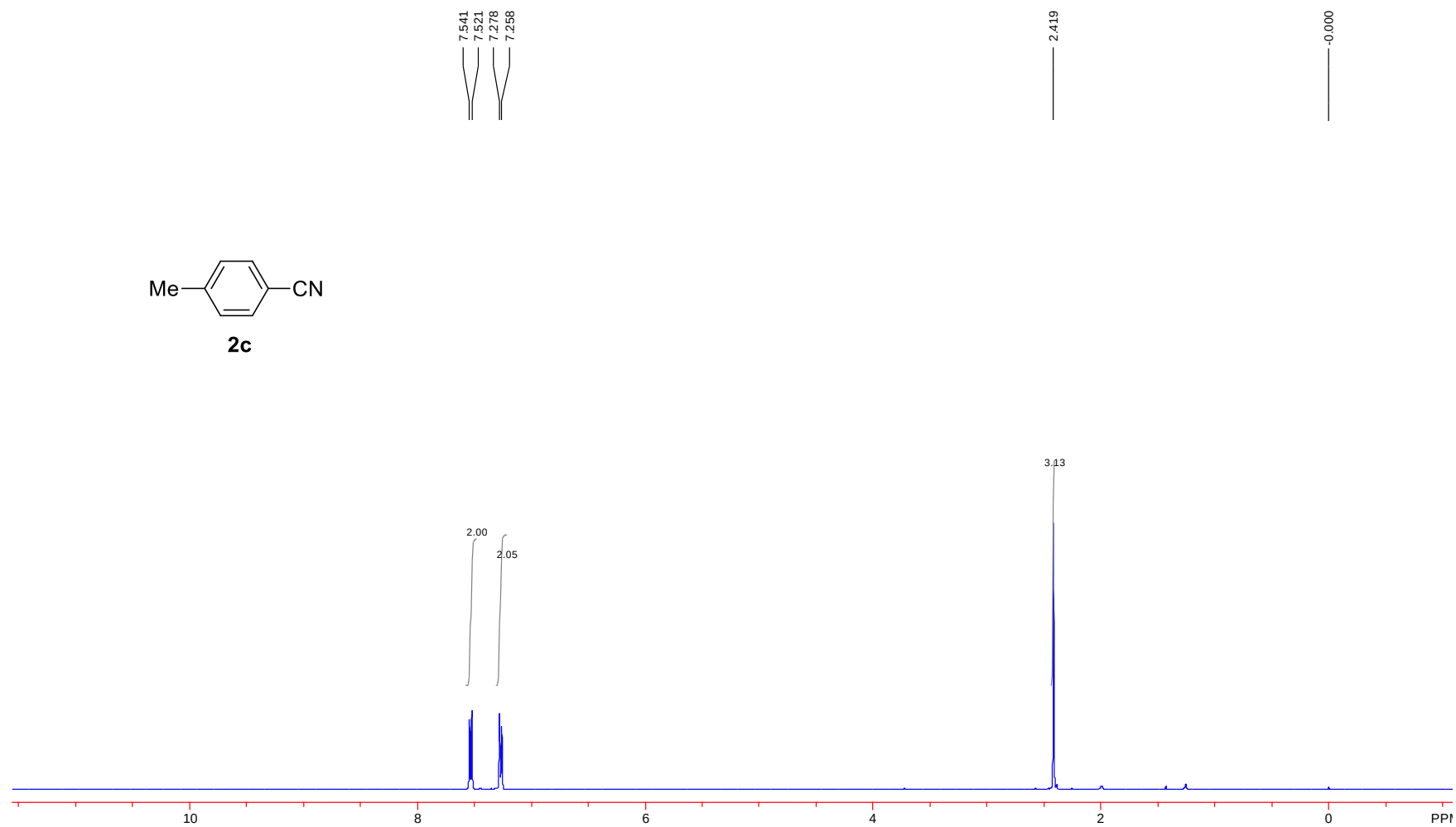
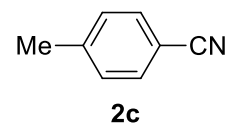
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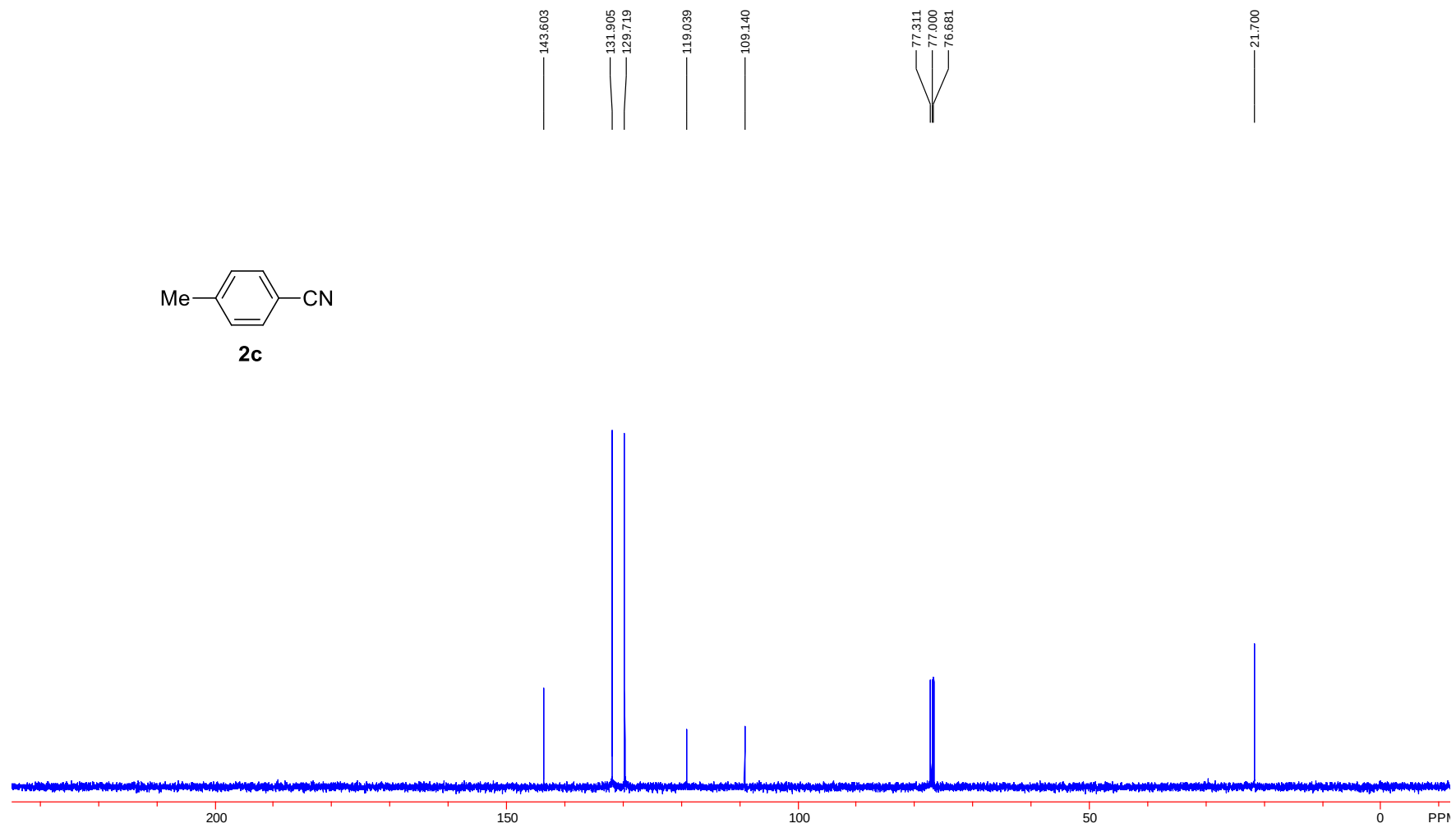
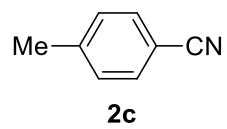
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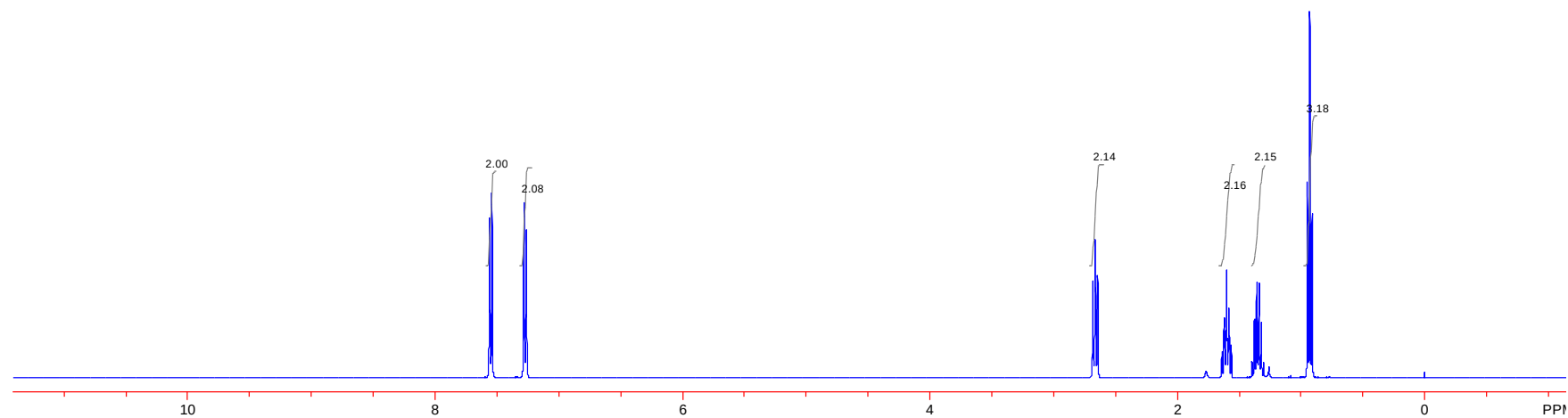
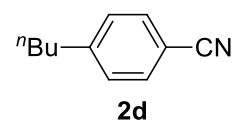
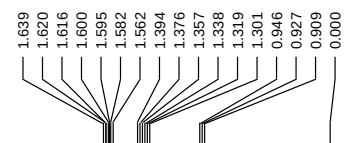
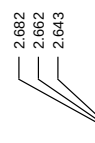
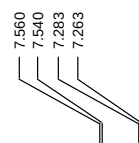
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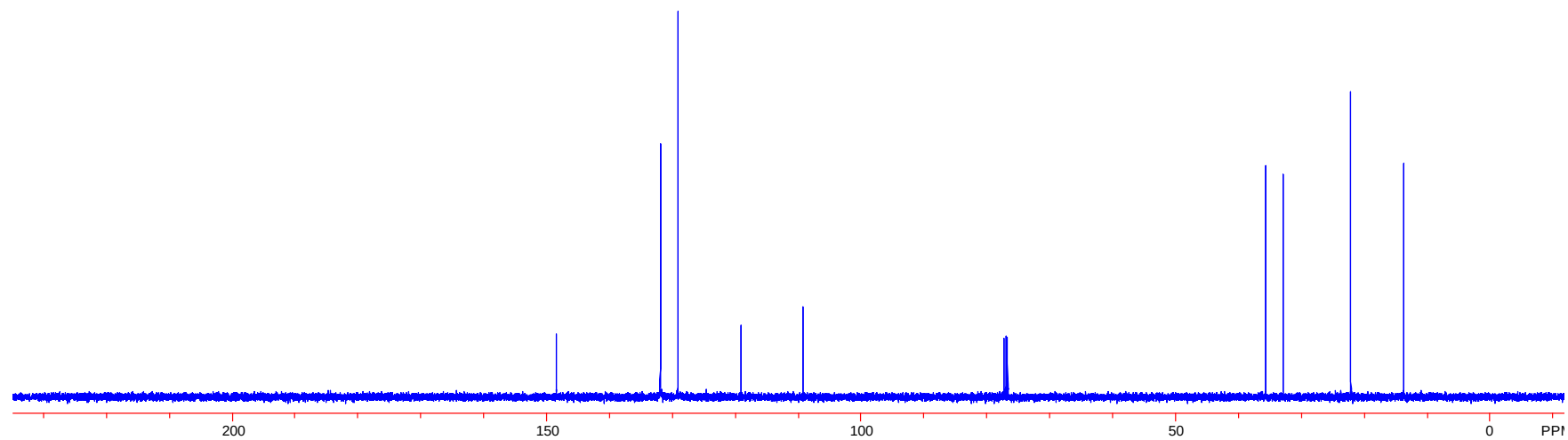
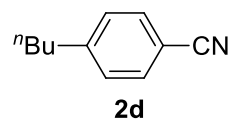
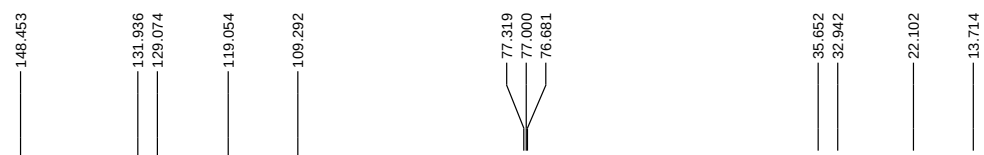
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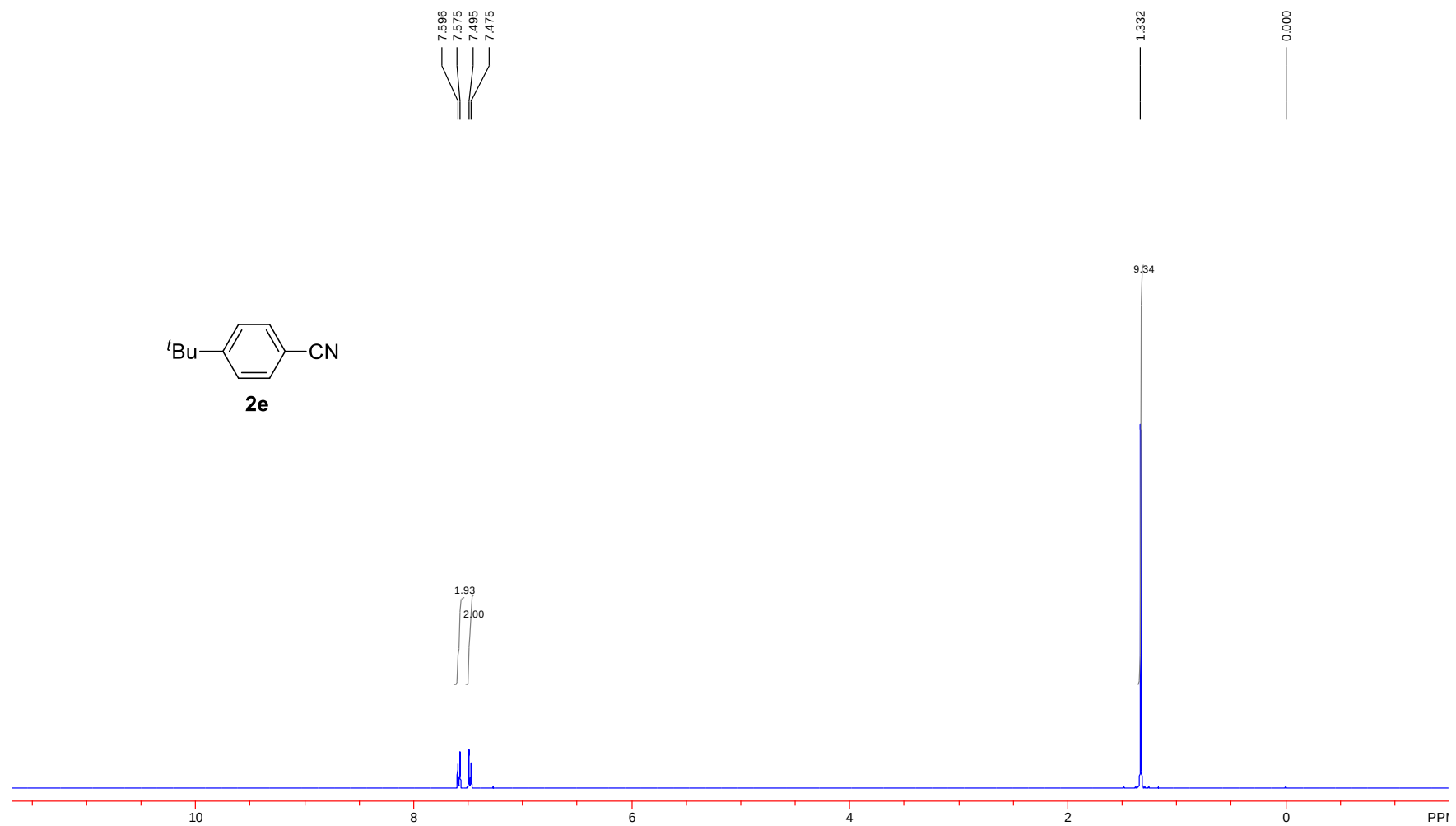
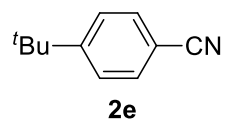
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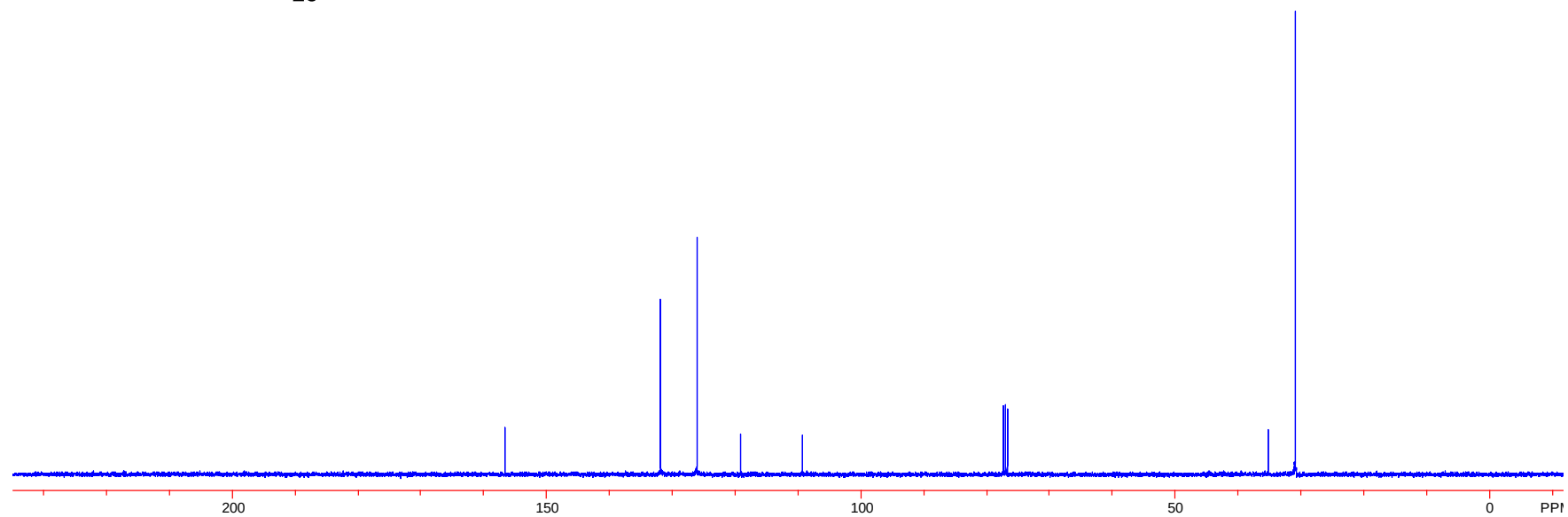
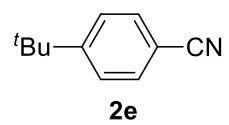
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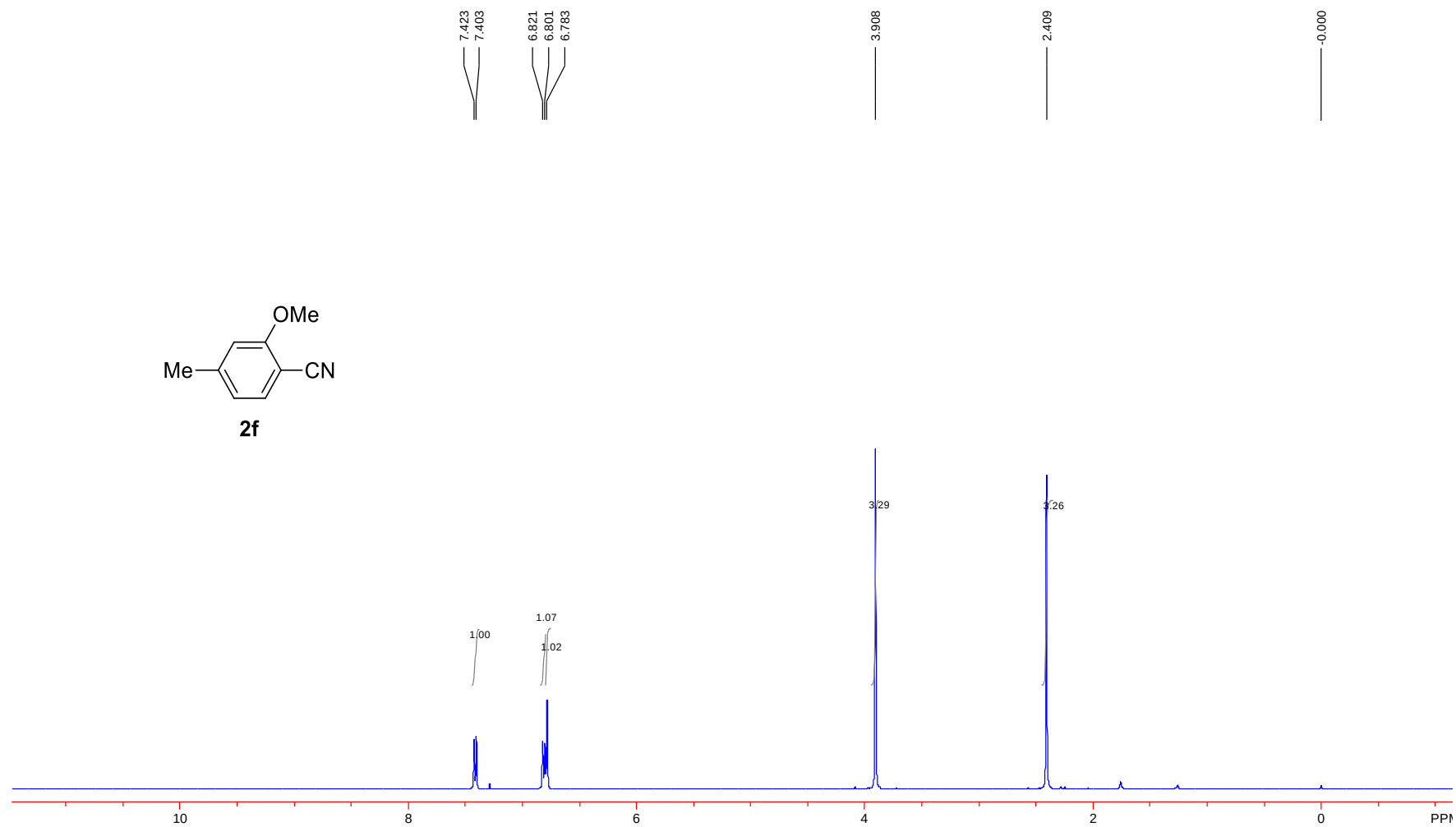
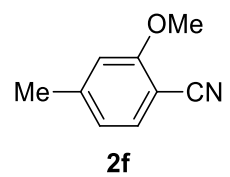
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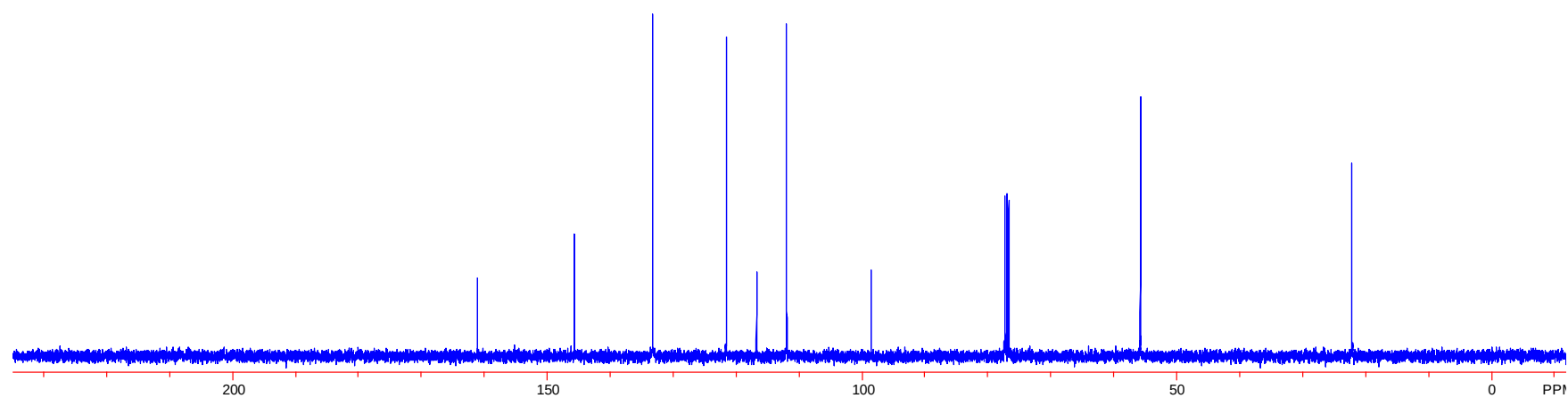
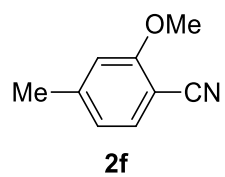
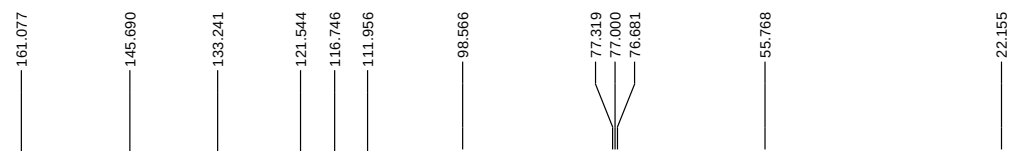
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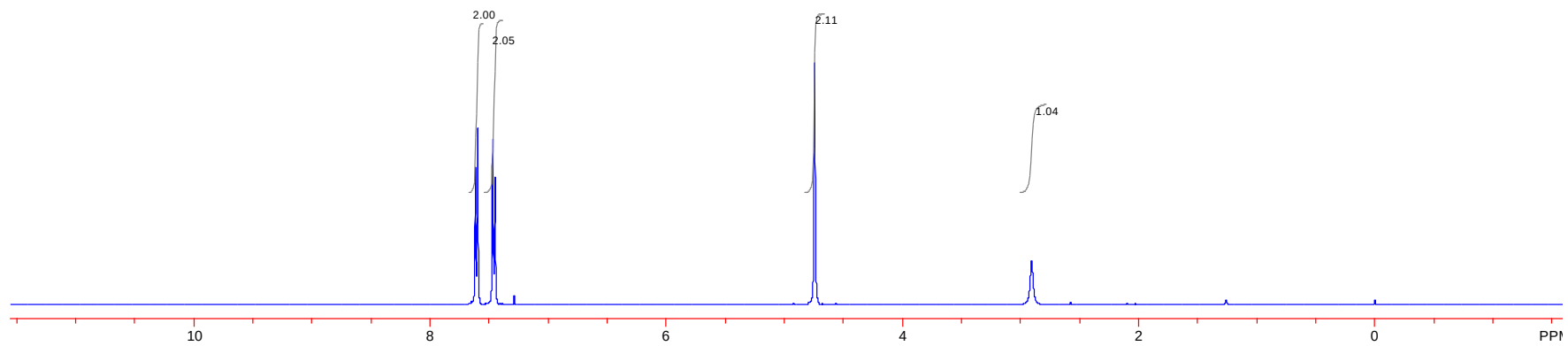
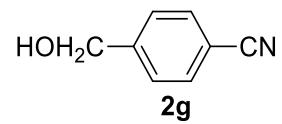
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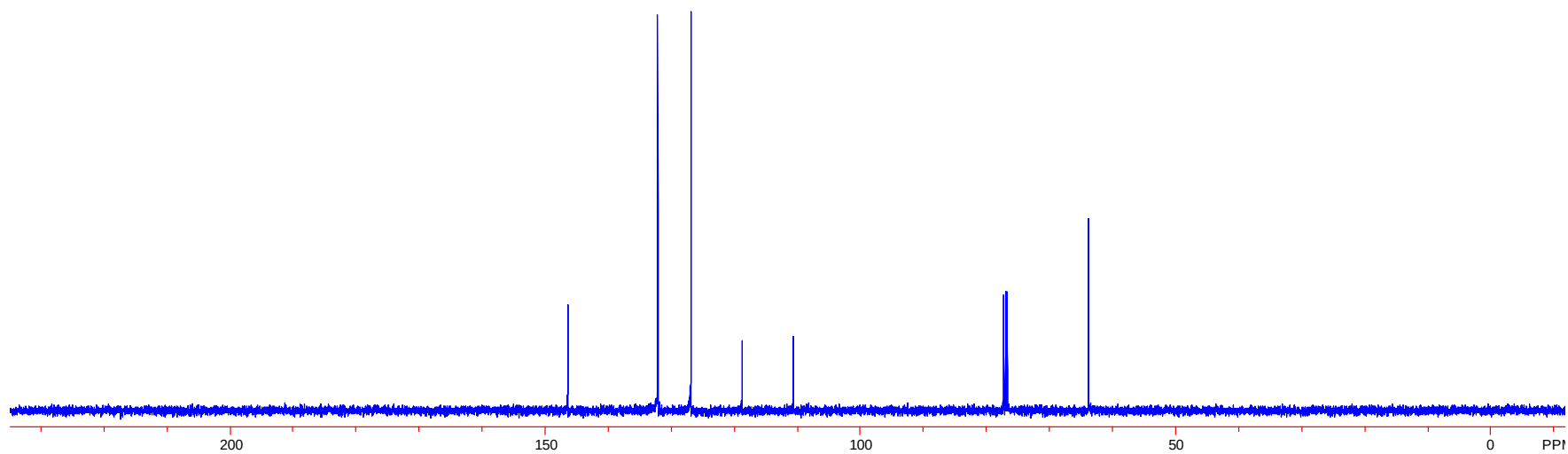
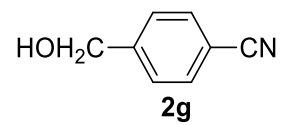
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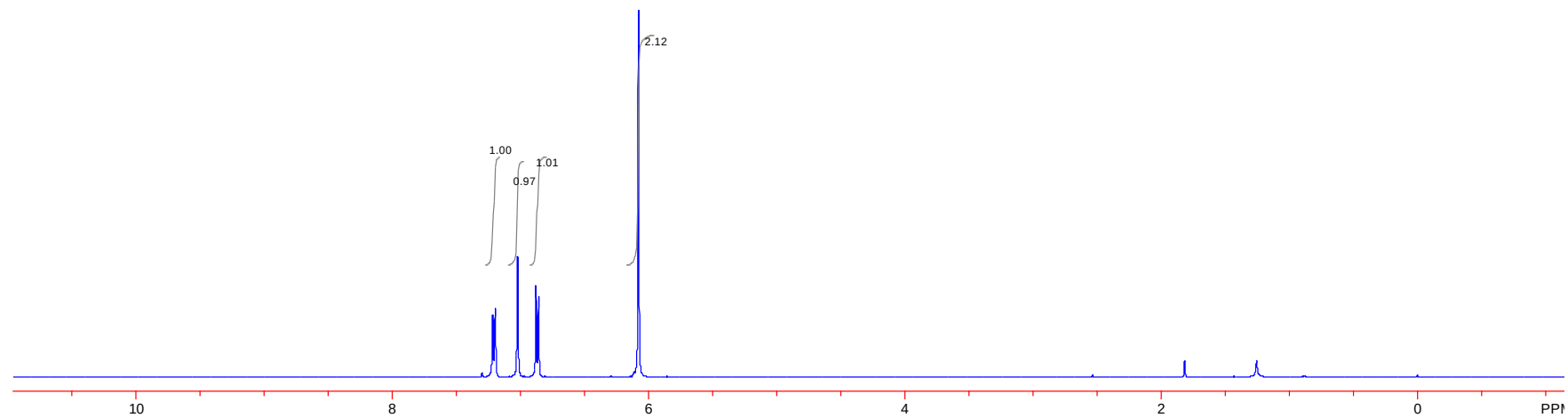
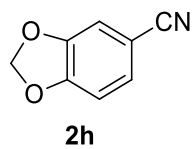
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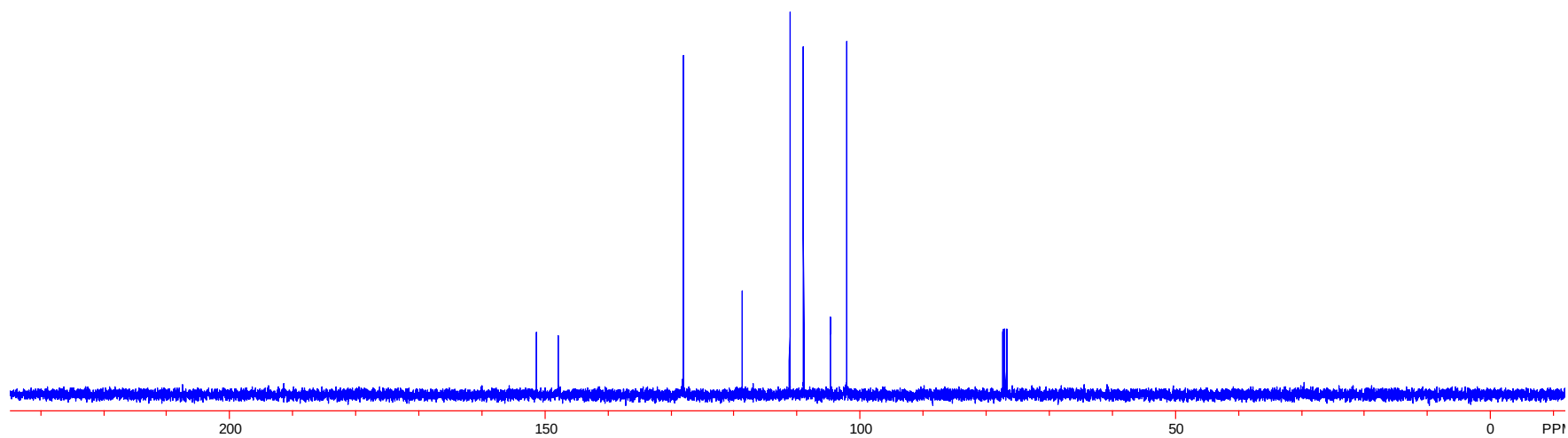
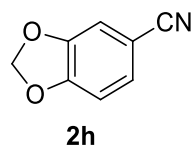
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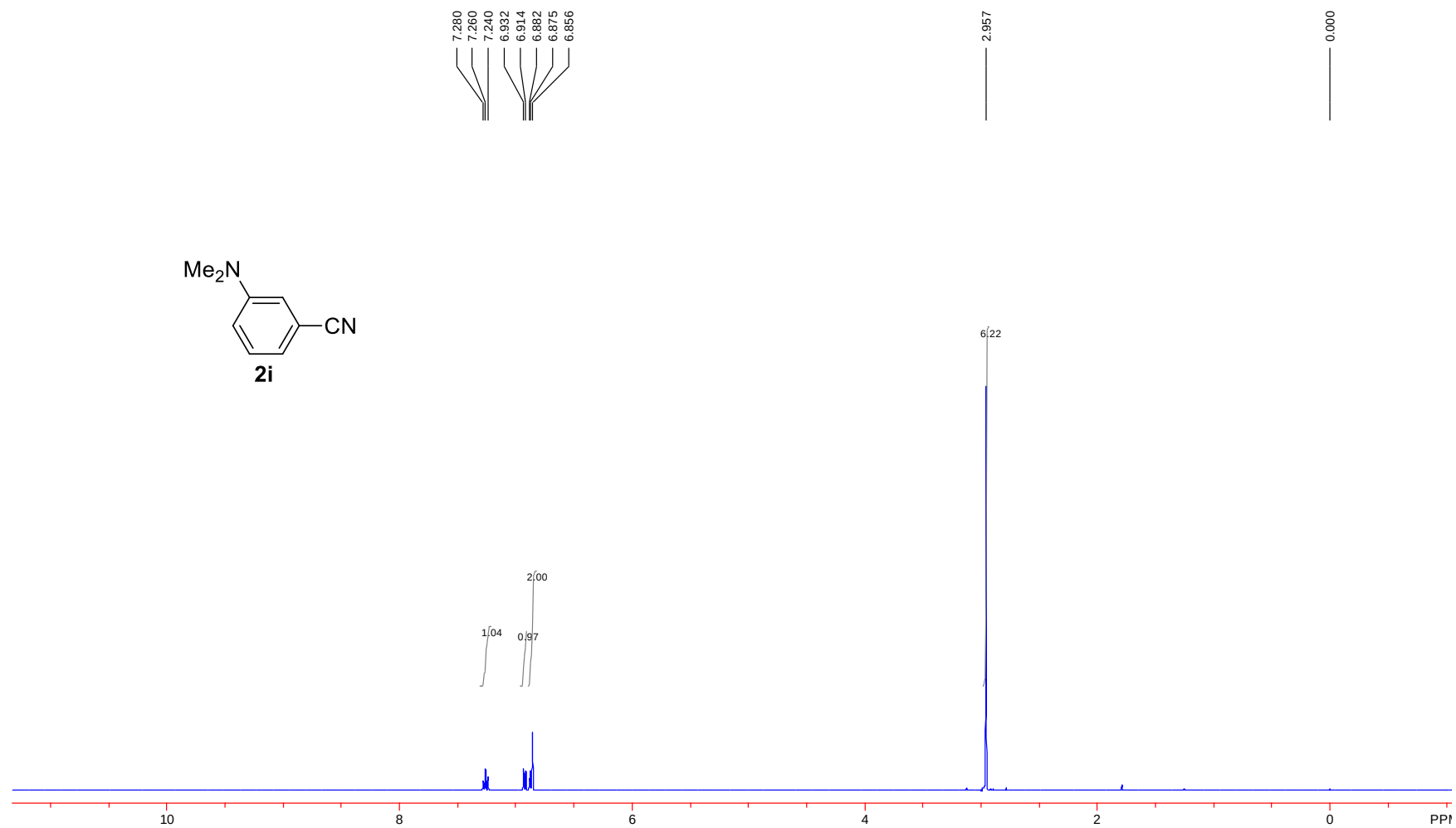
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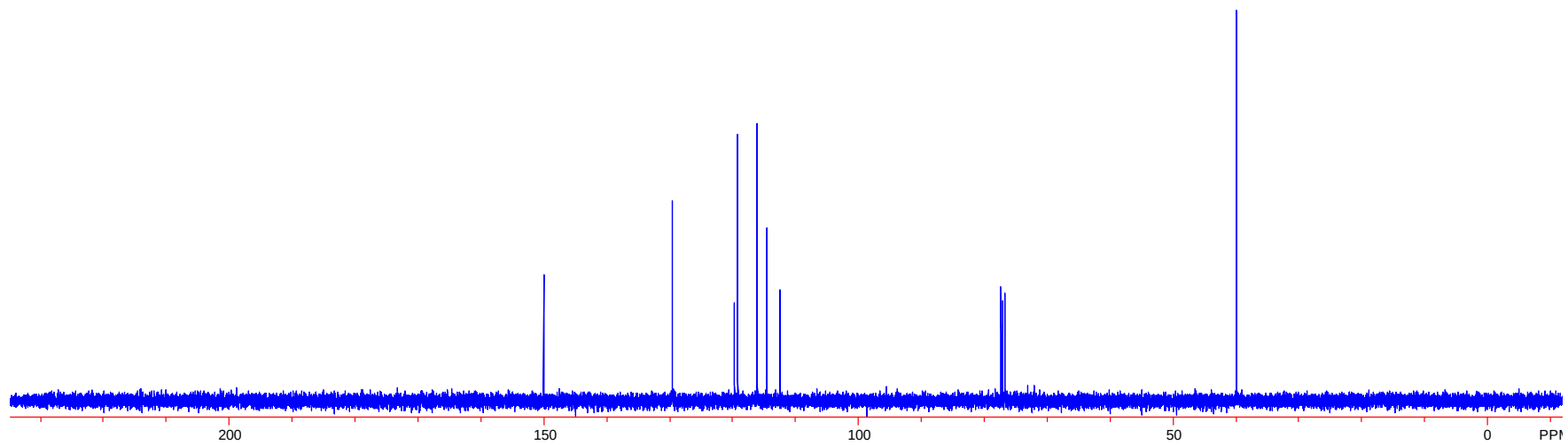
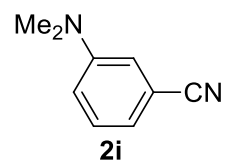
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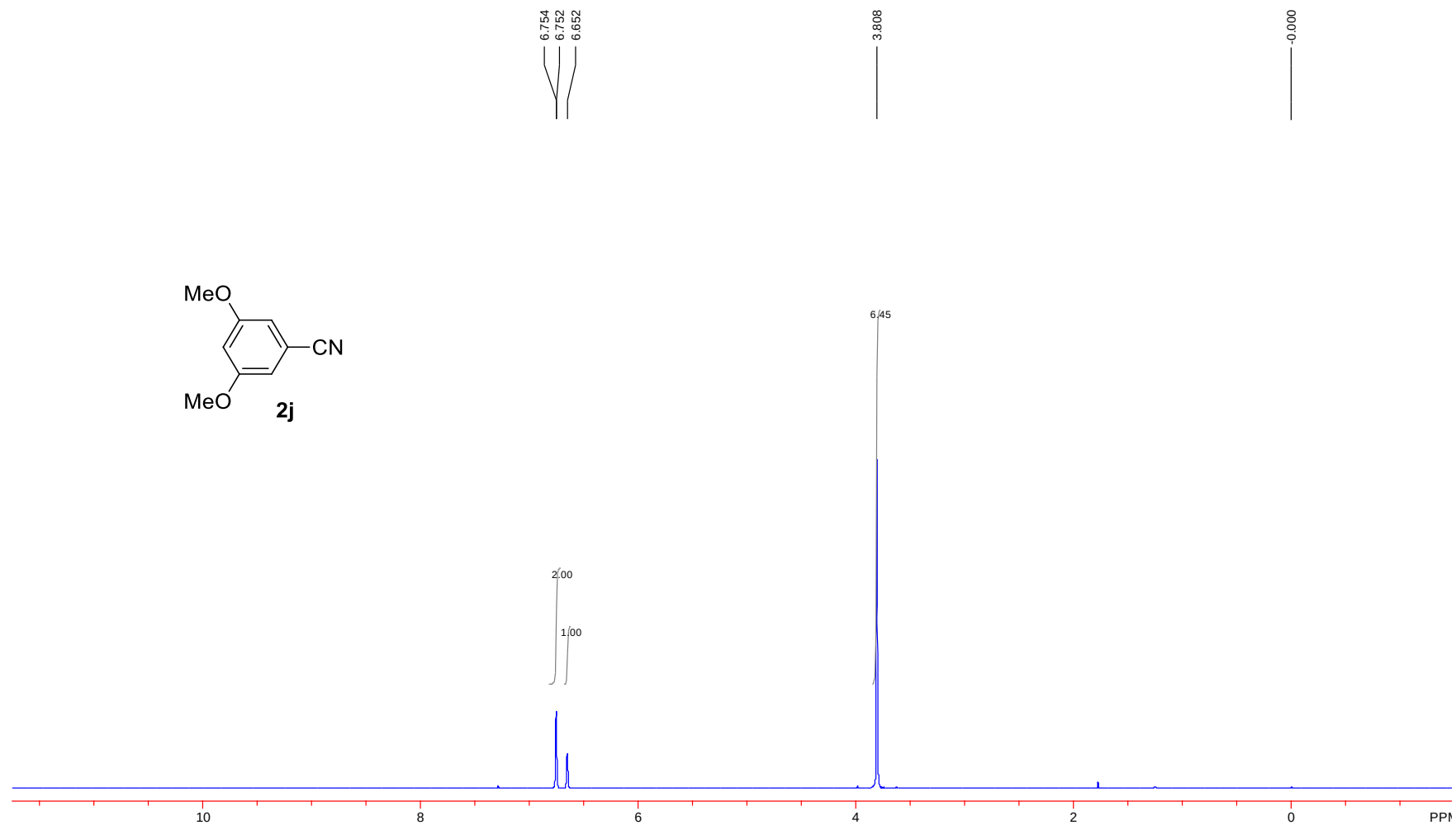
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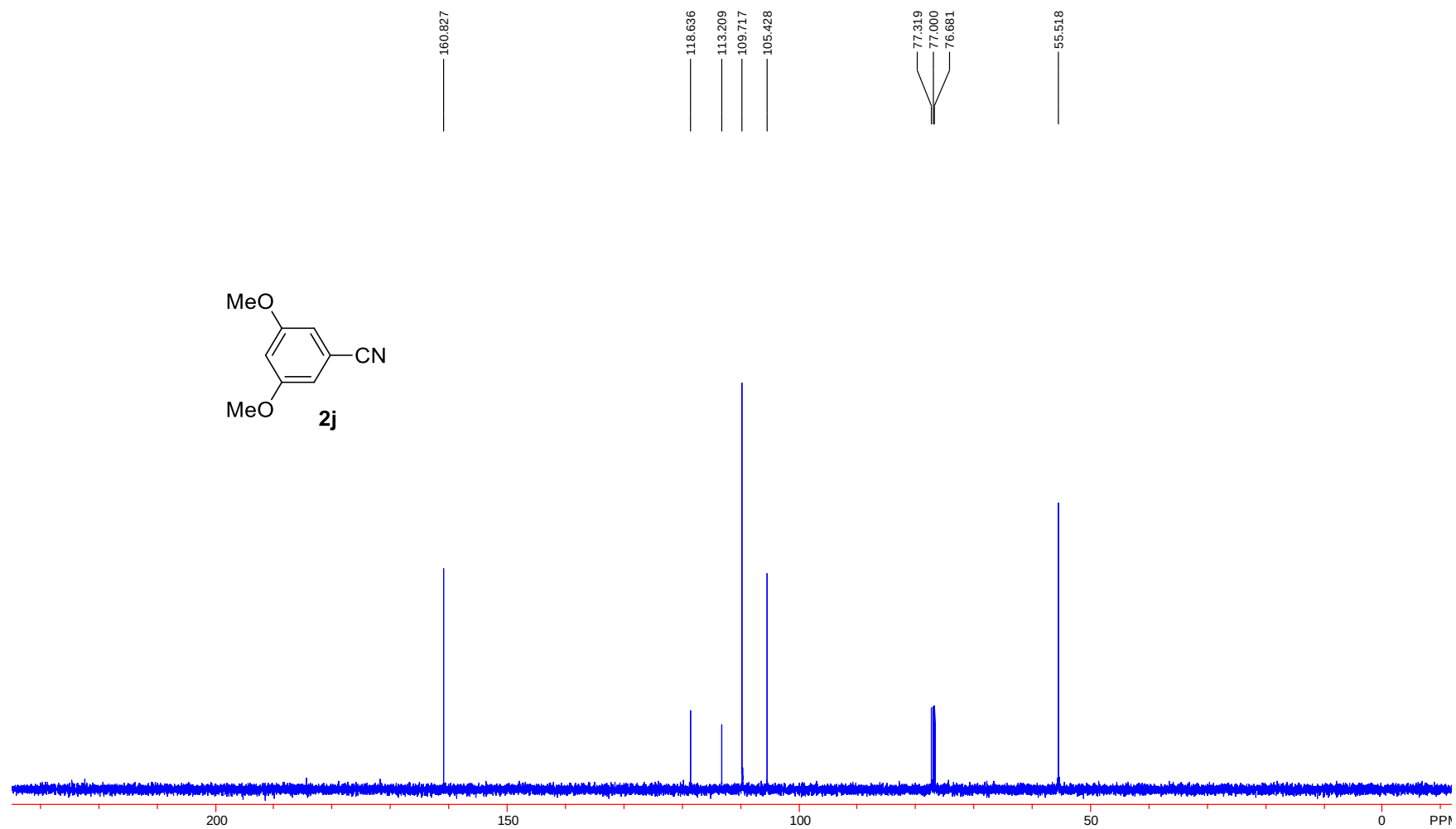
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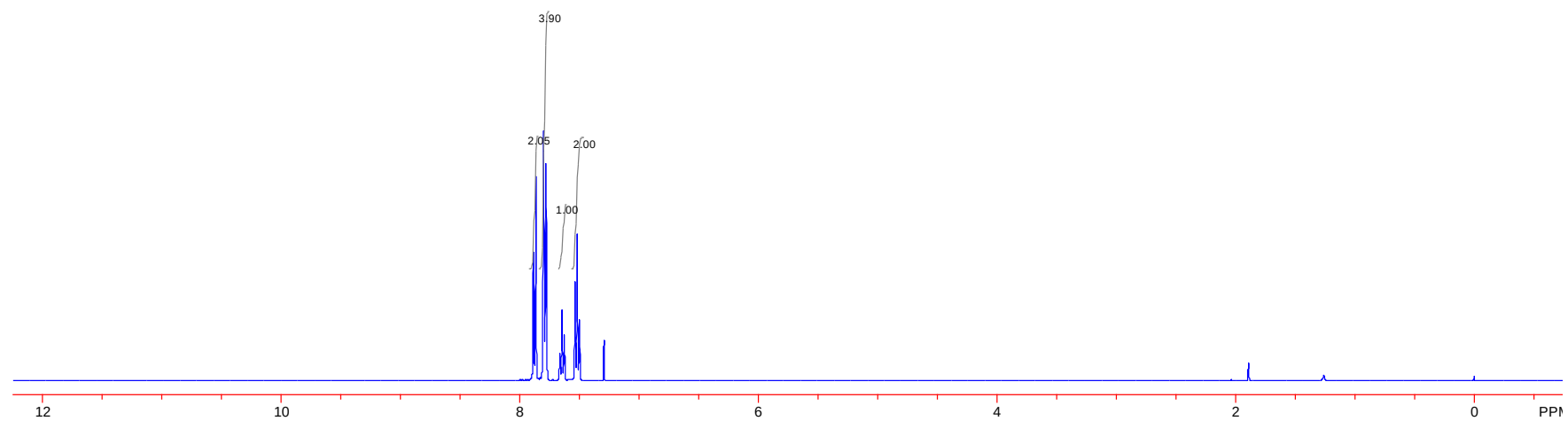
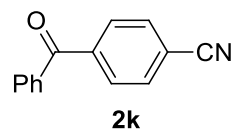
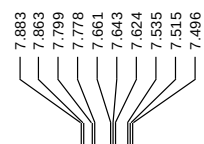
^1H NMR(400 MHz, CDCl_3)



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



^1H NMR(400 MHz, CDCl_3)



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

194.819

140.999

136.118

133.143

131.996

130.045

129.878

128.451

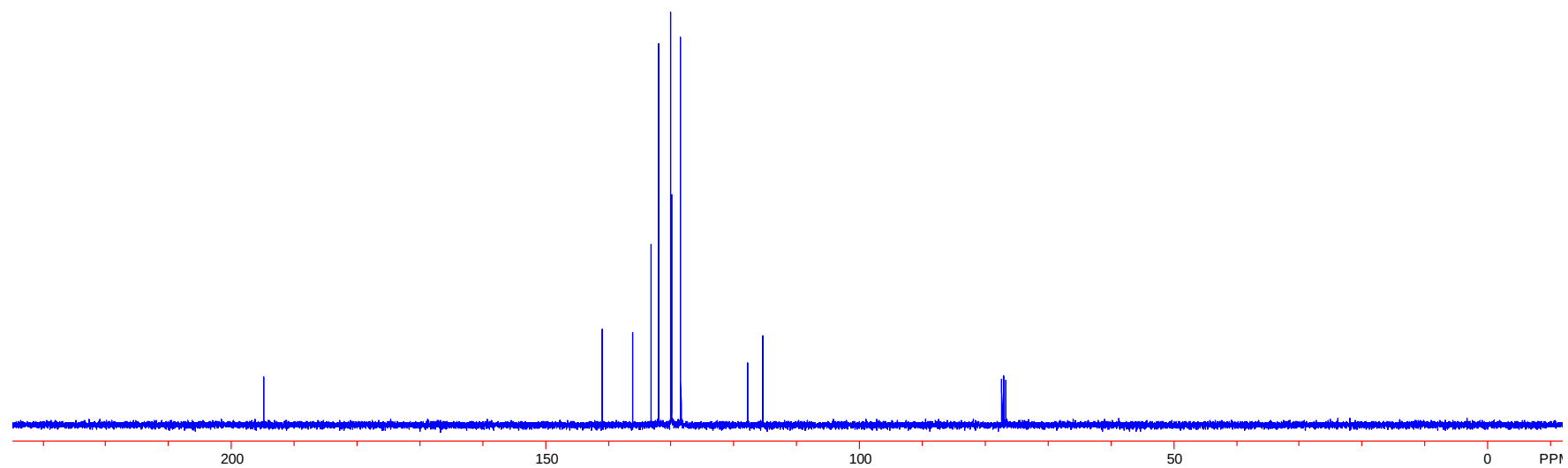
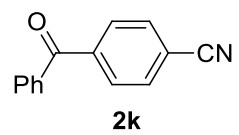
117.847

115.418

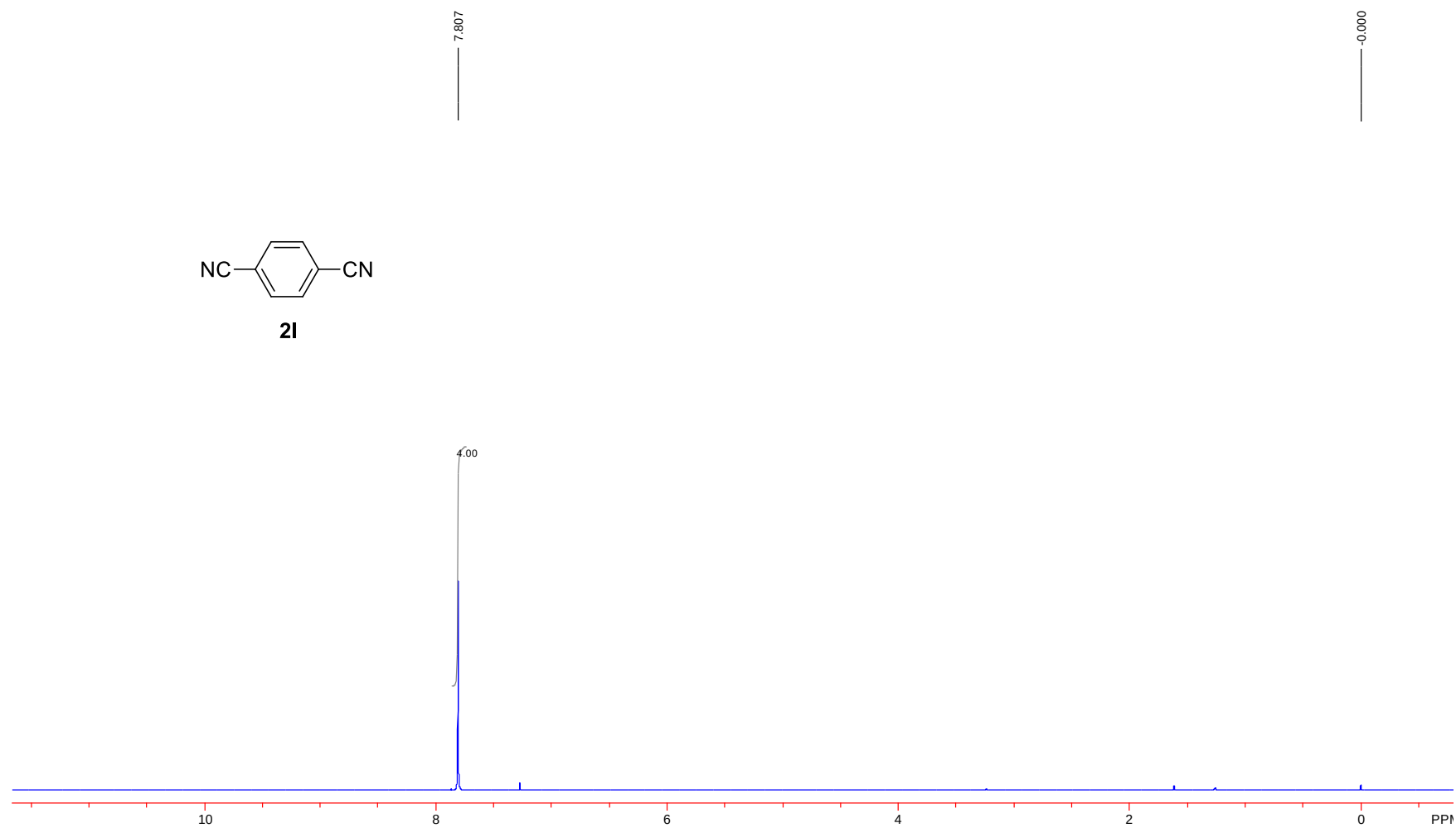
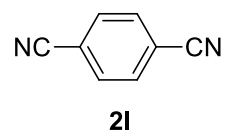
77.319

77.000

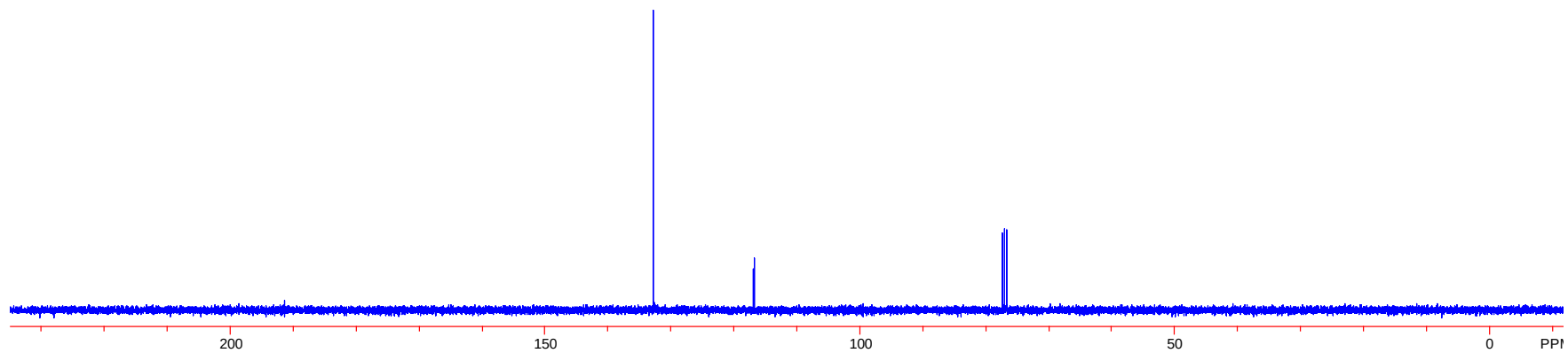
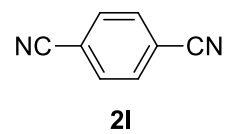
76.681



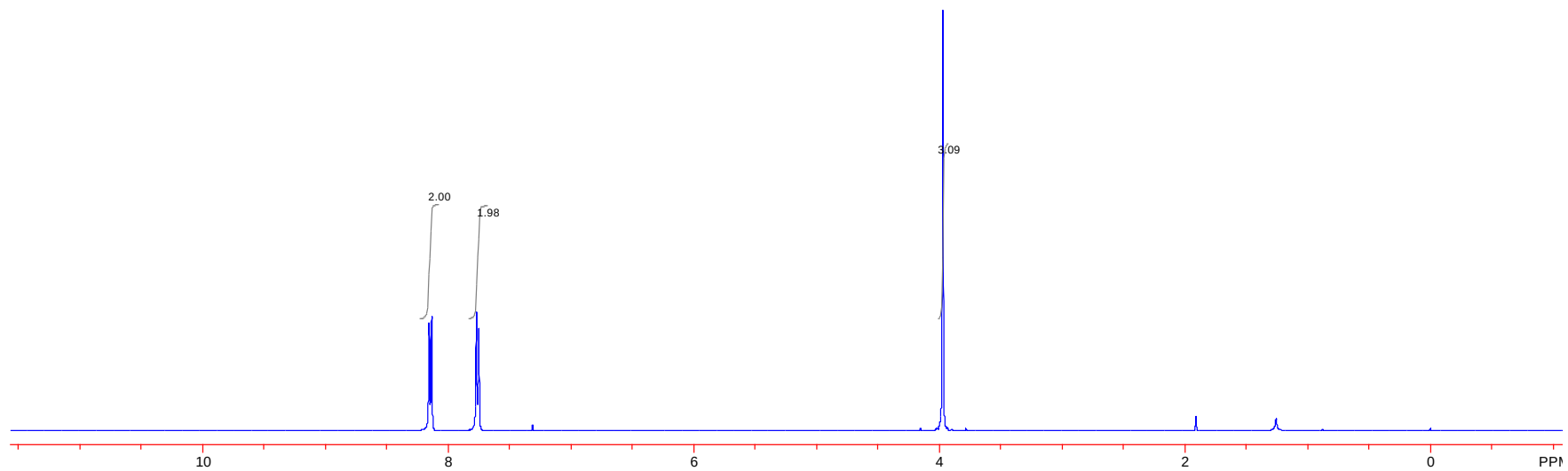
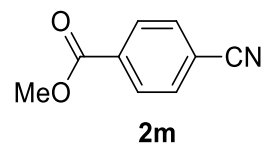
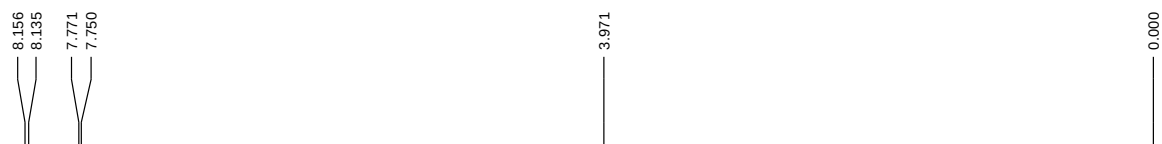
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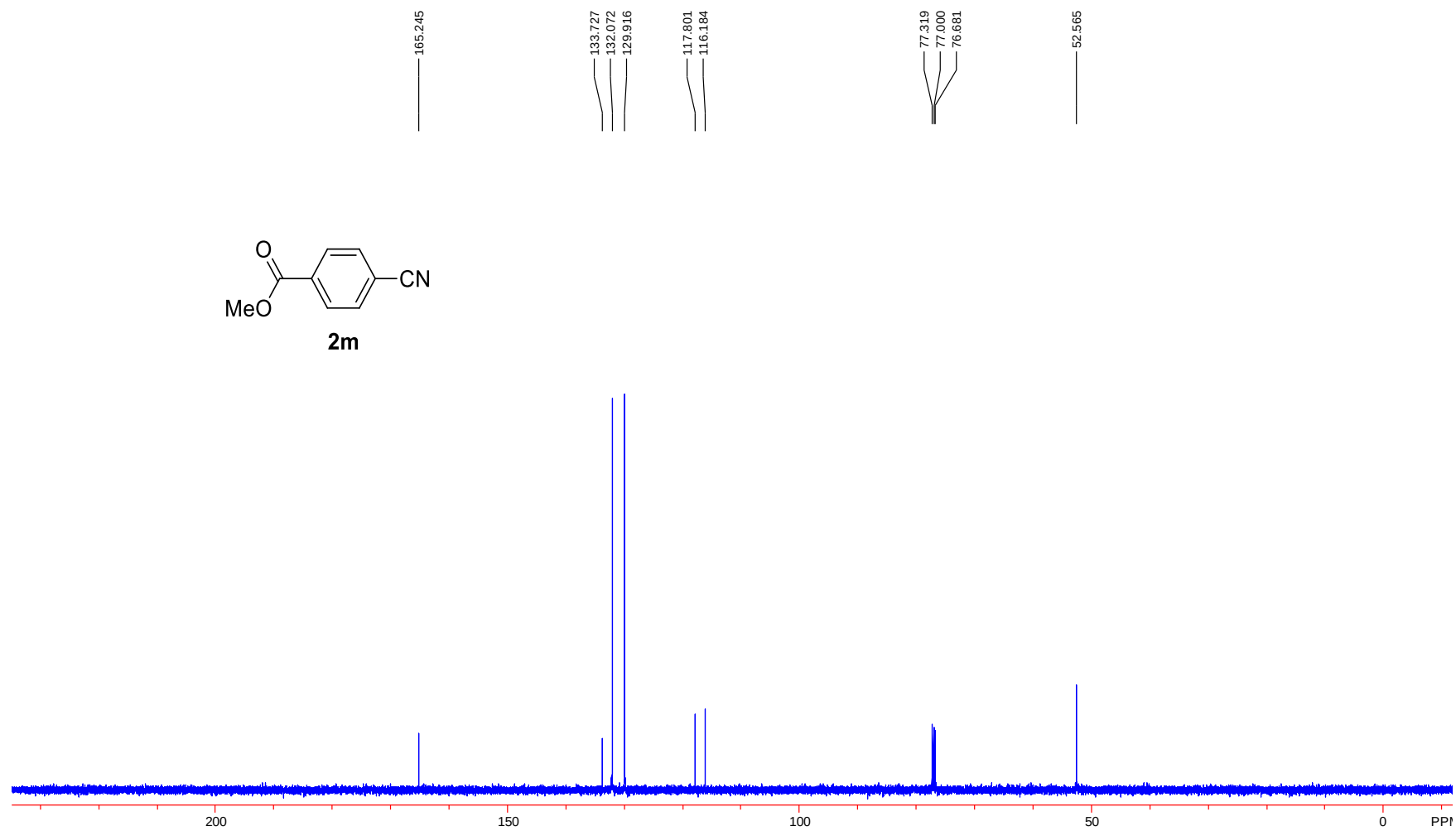
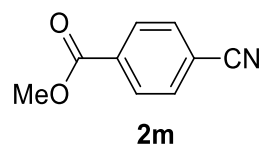
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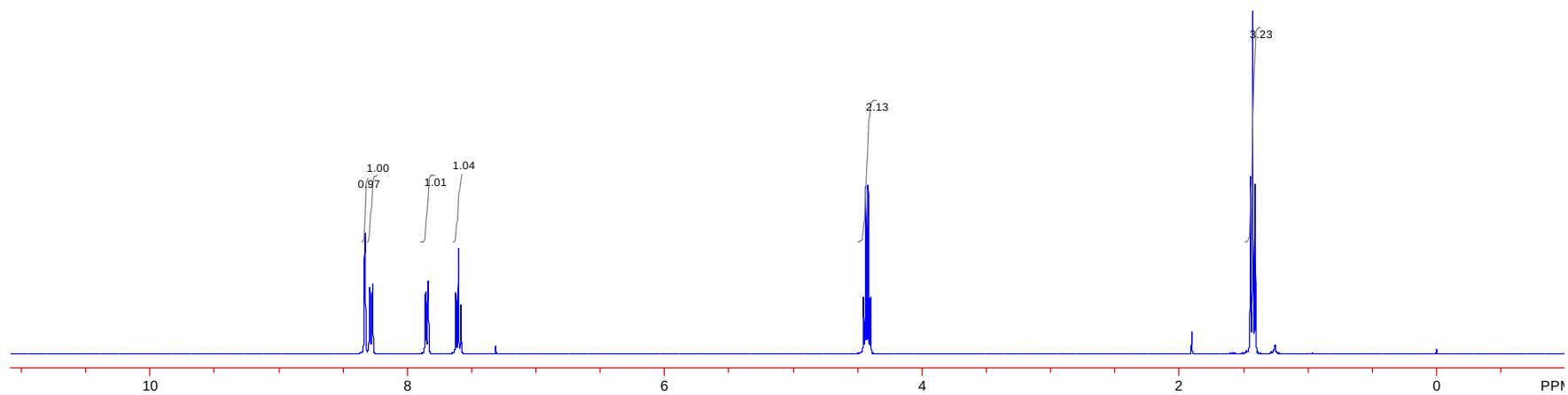
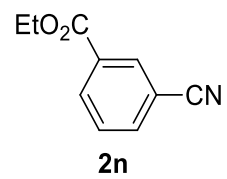
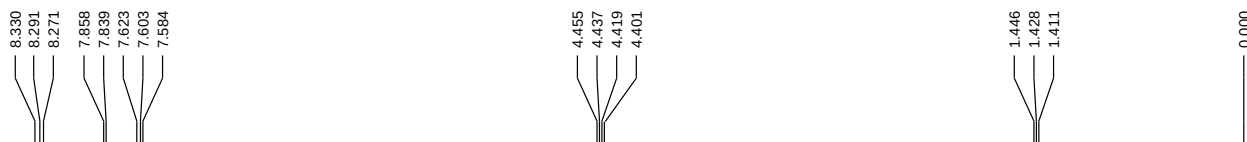
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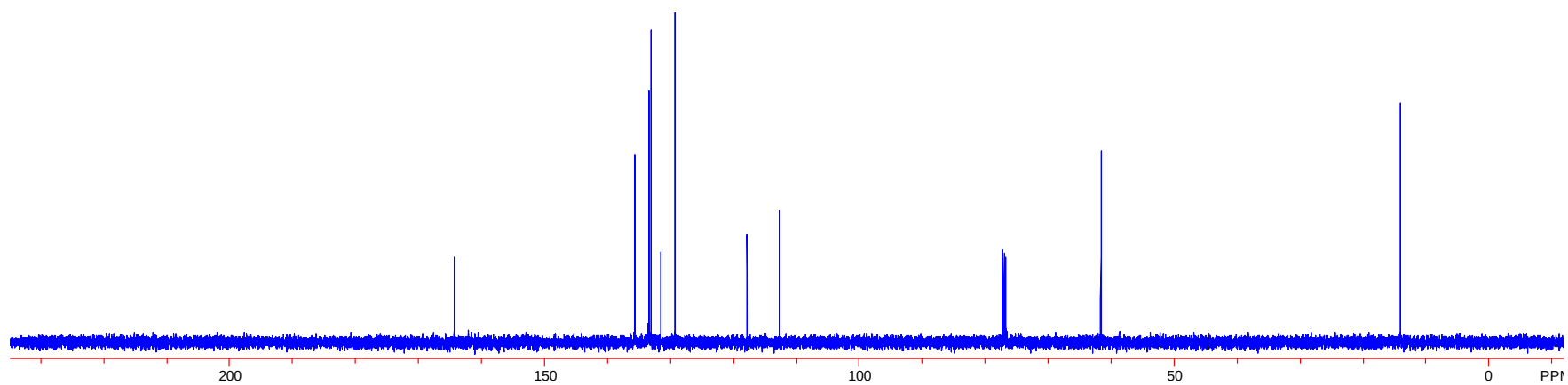
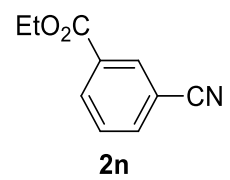
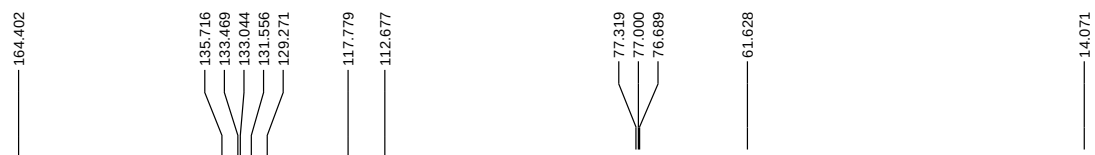
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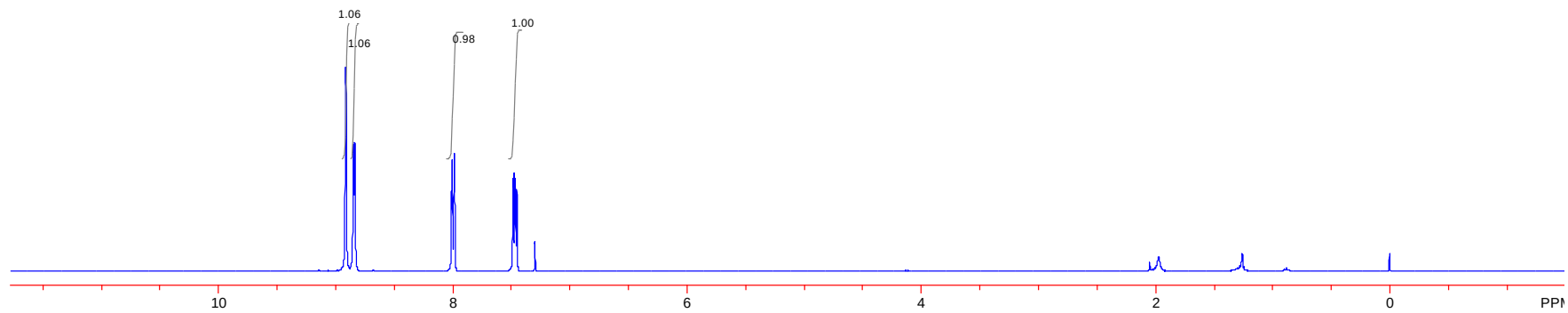
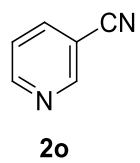
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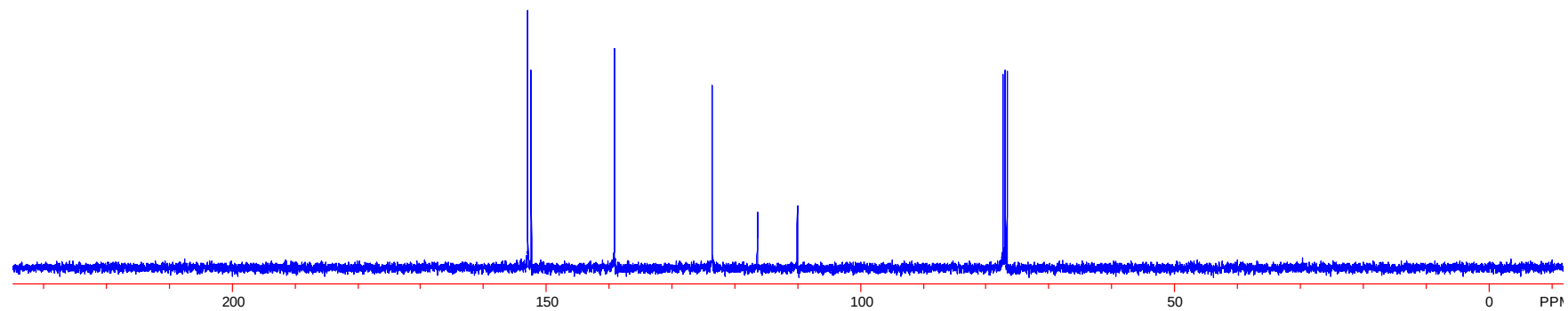
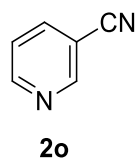
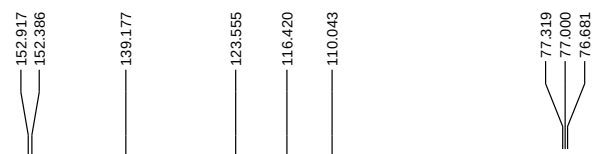
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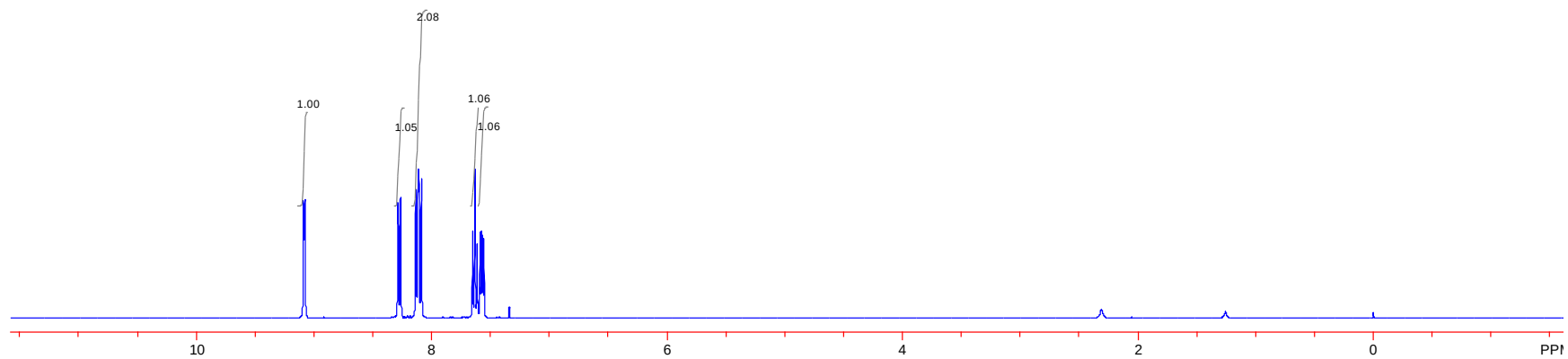
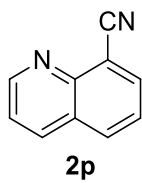
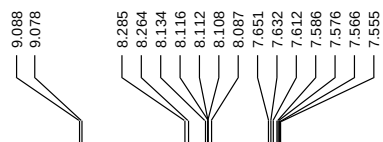
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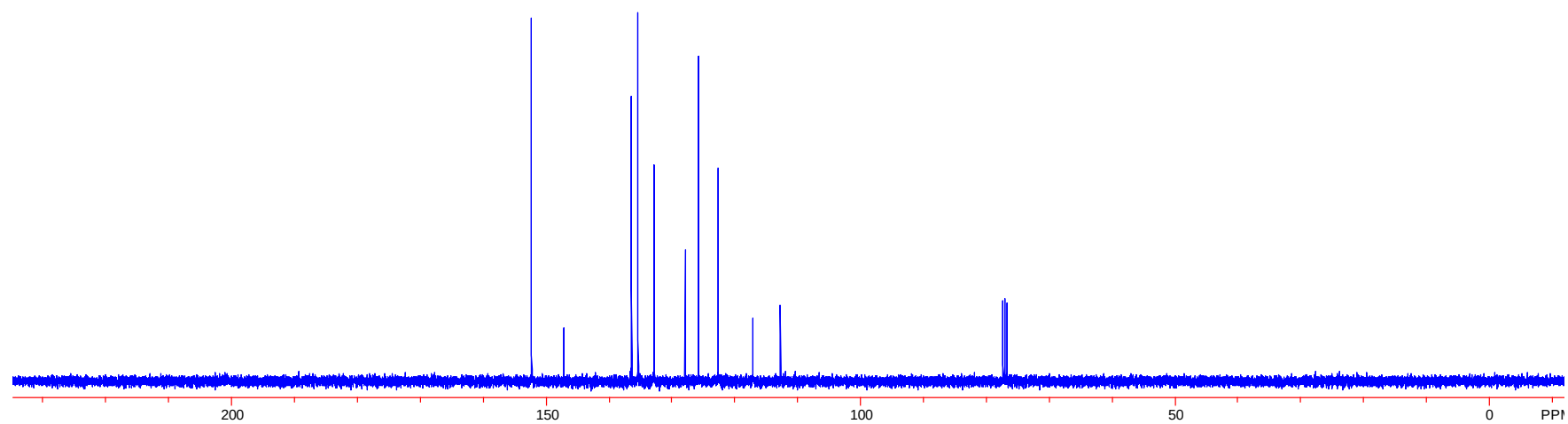
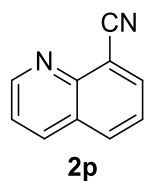
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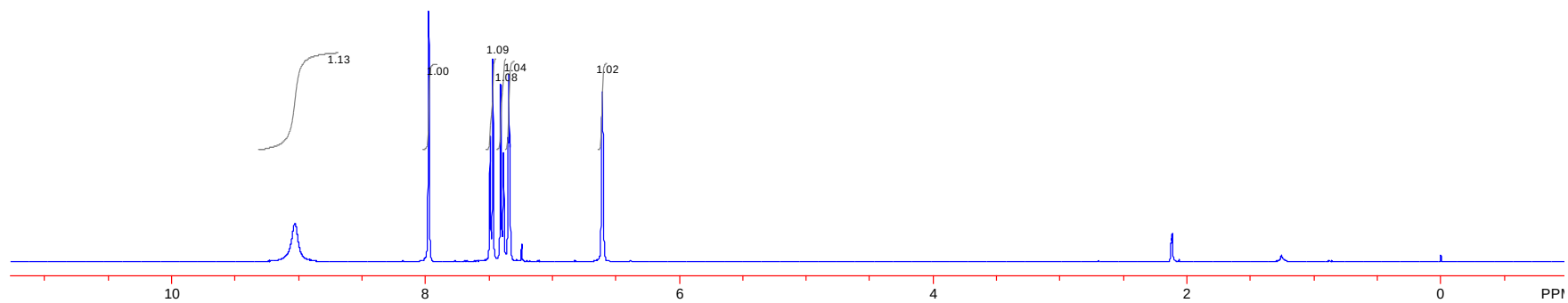
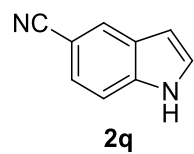
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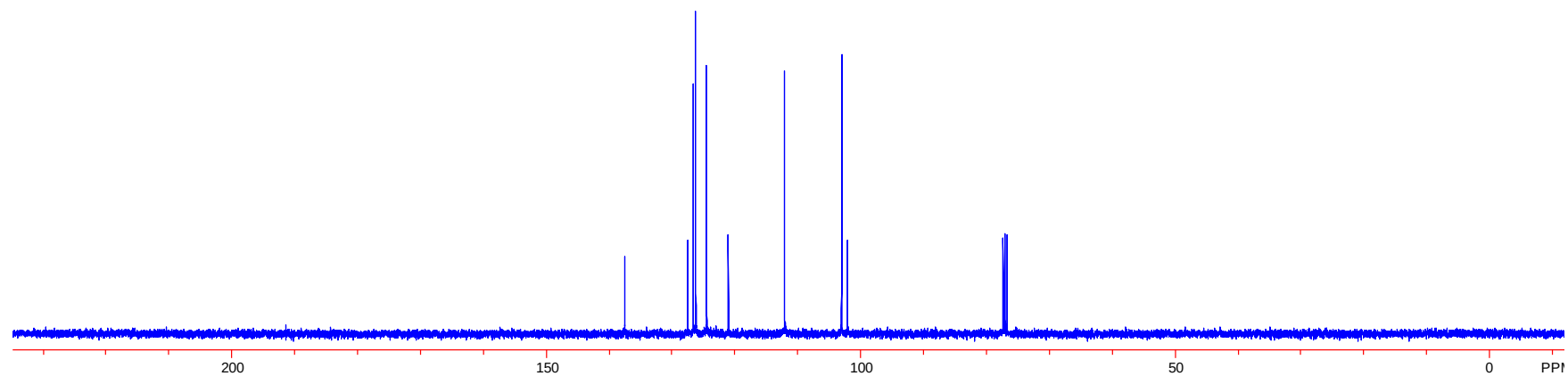
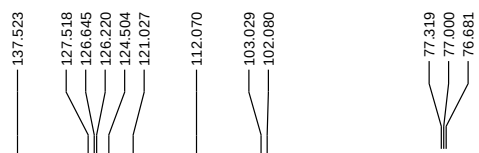
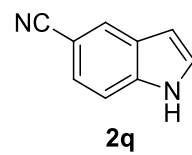
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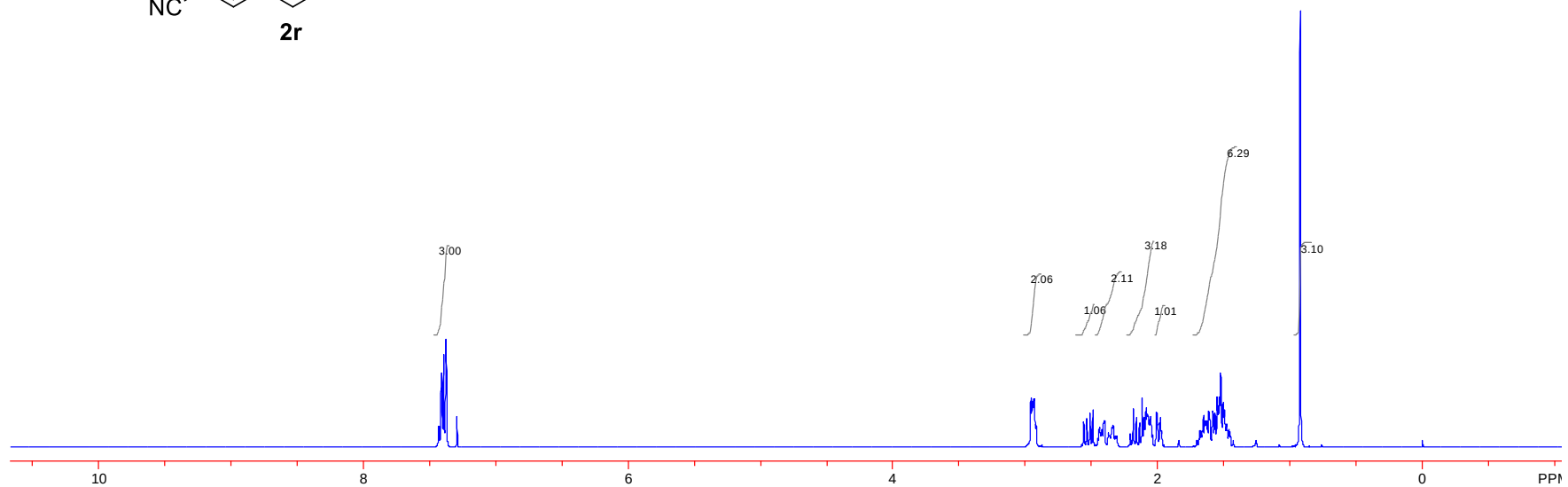
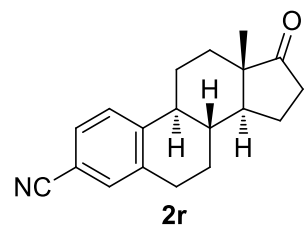
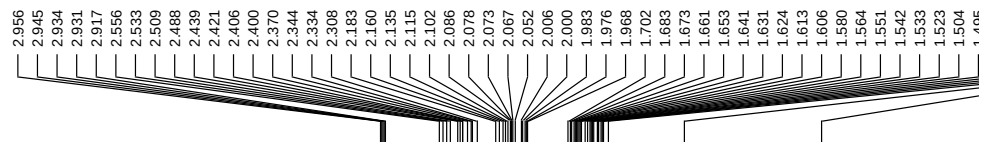
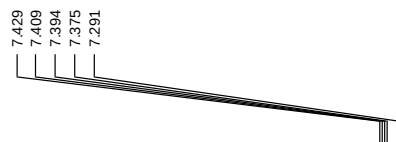
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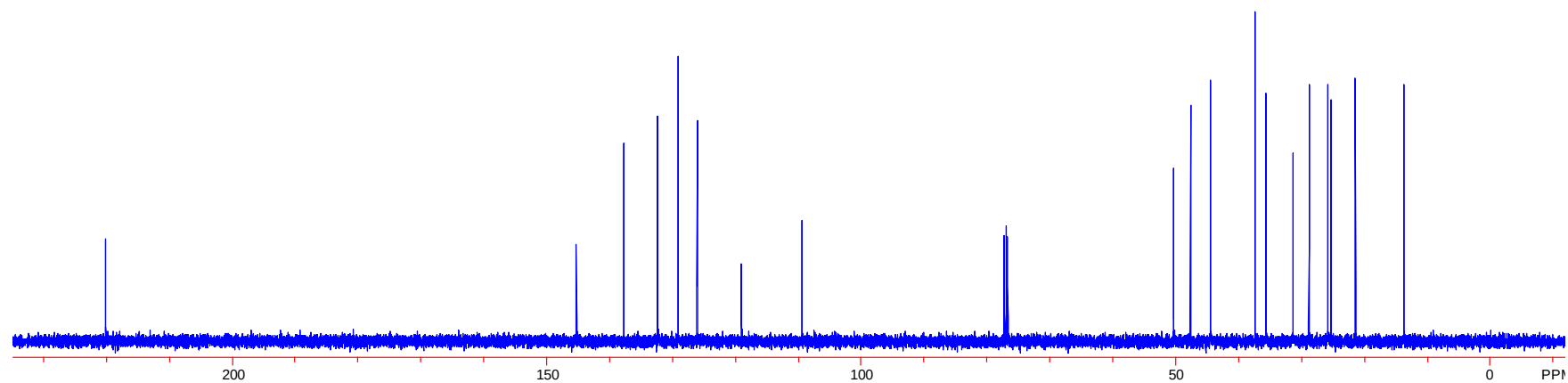
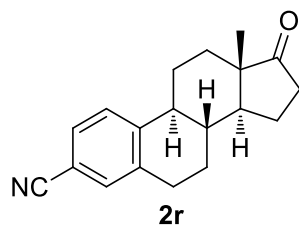
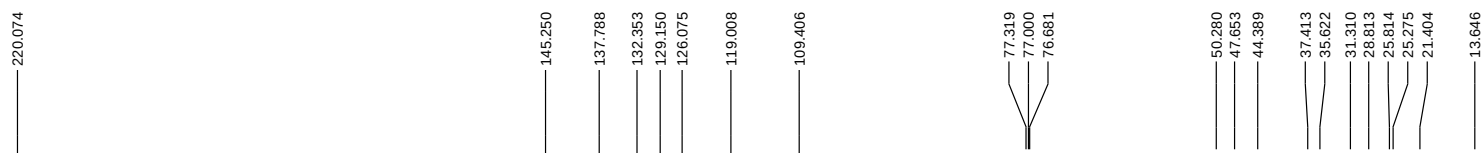
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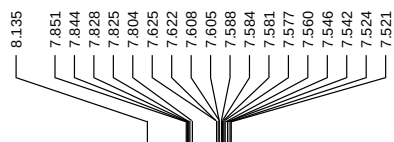
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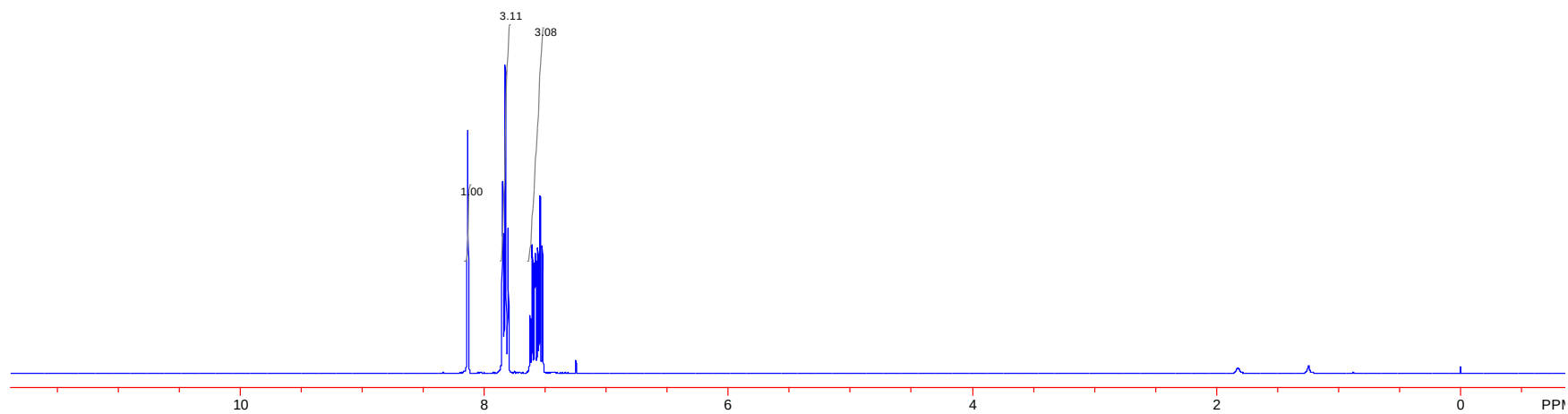
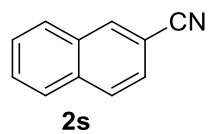
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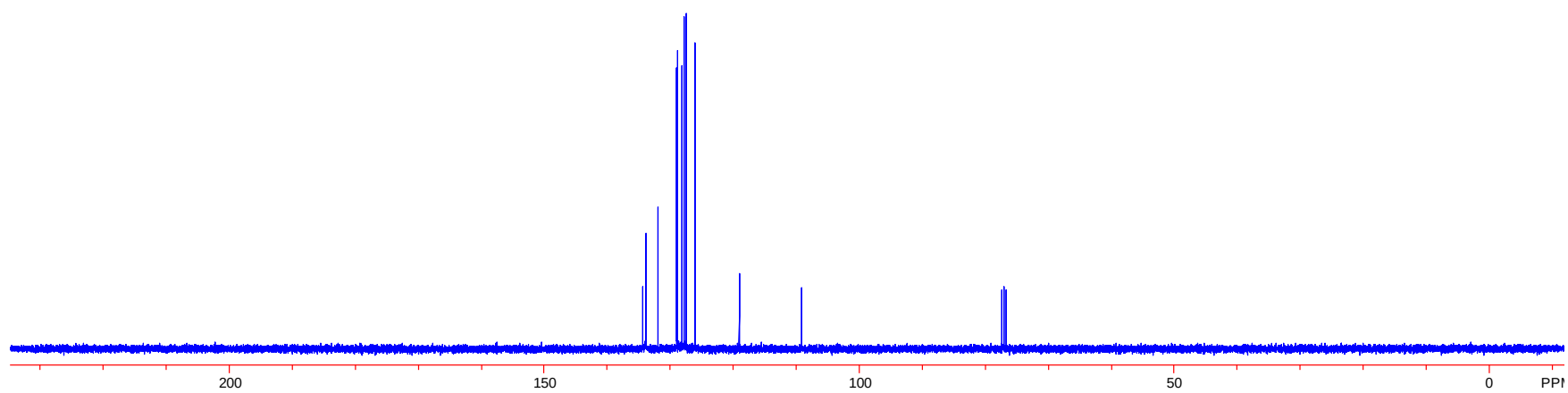
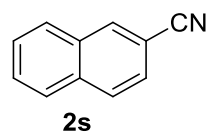
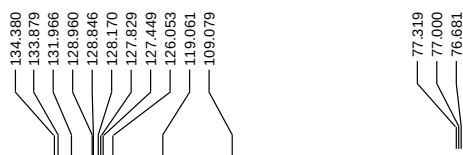
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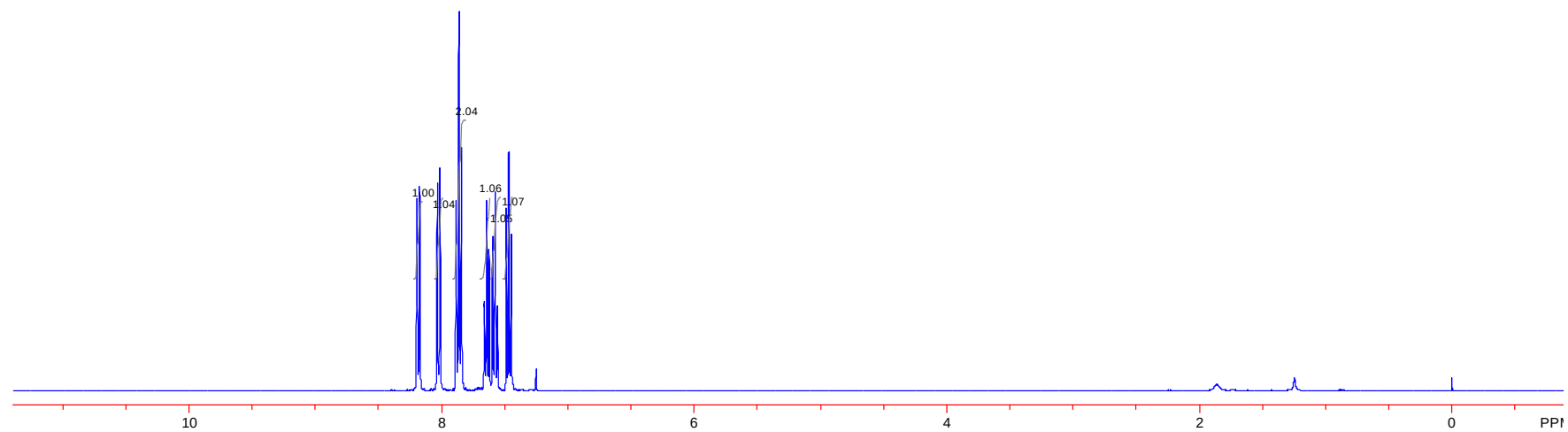
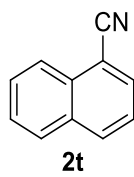
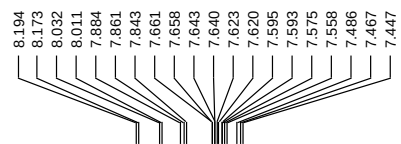
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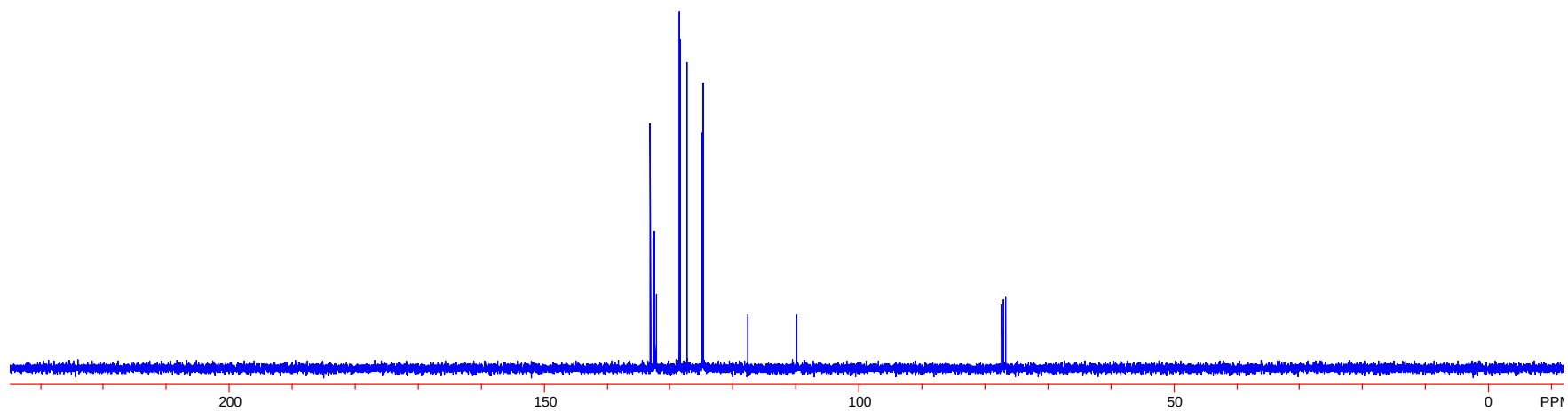
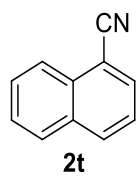
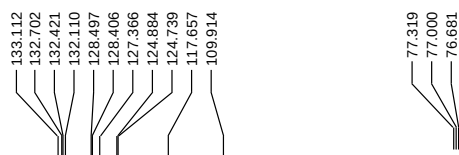
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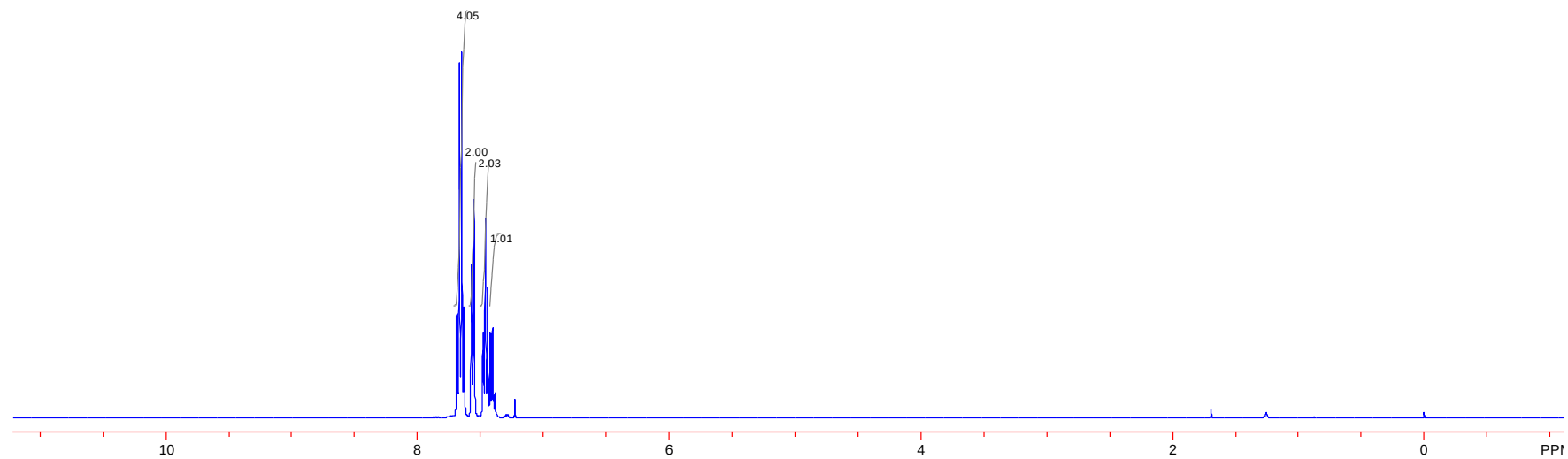
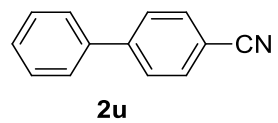
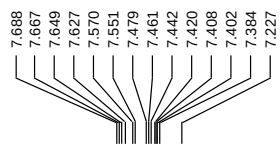
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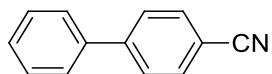
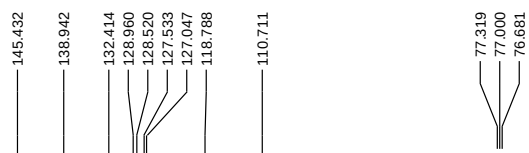
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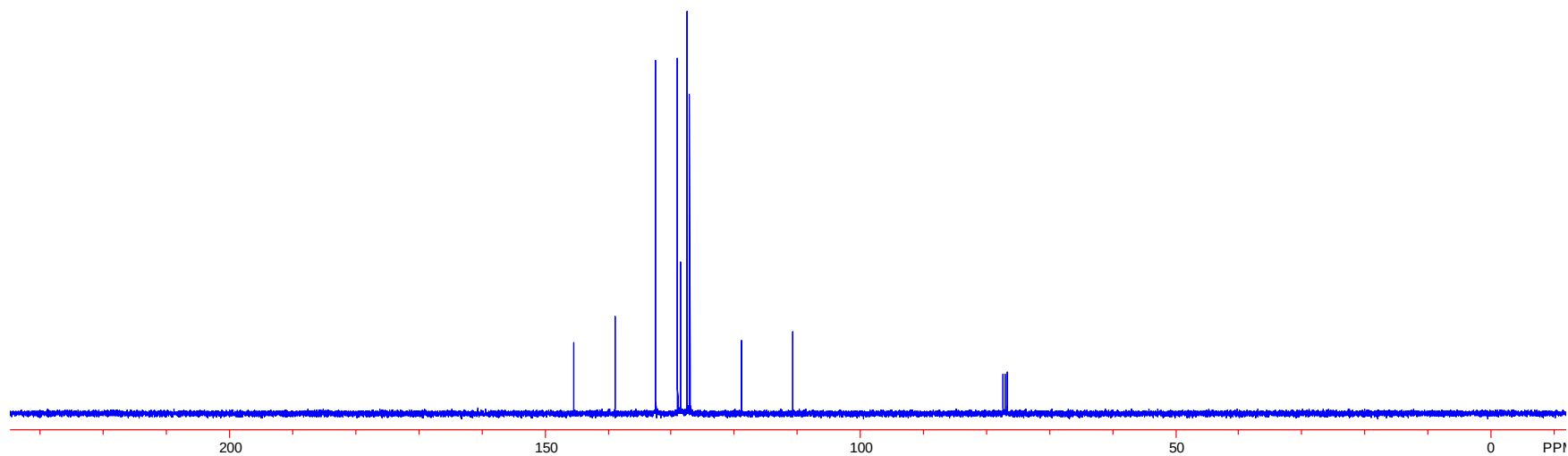
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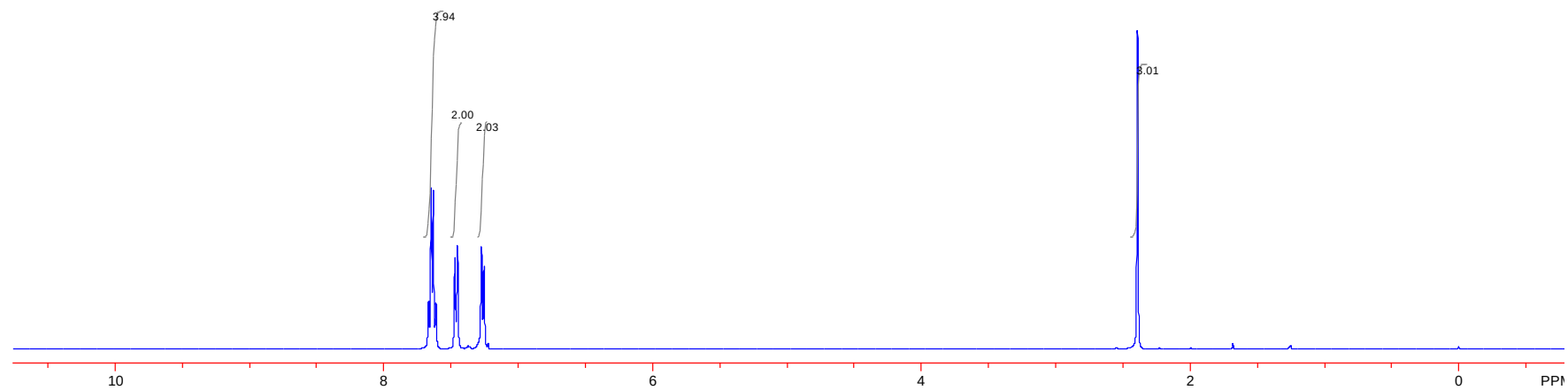
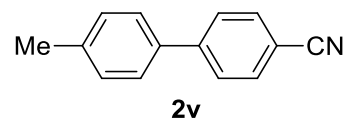
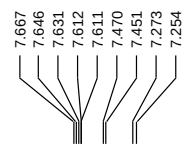
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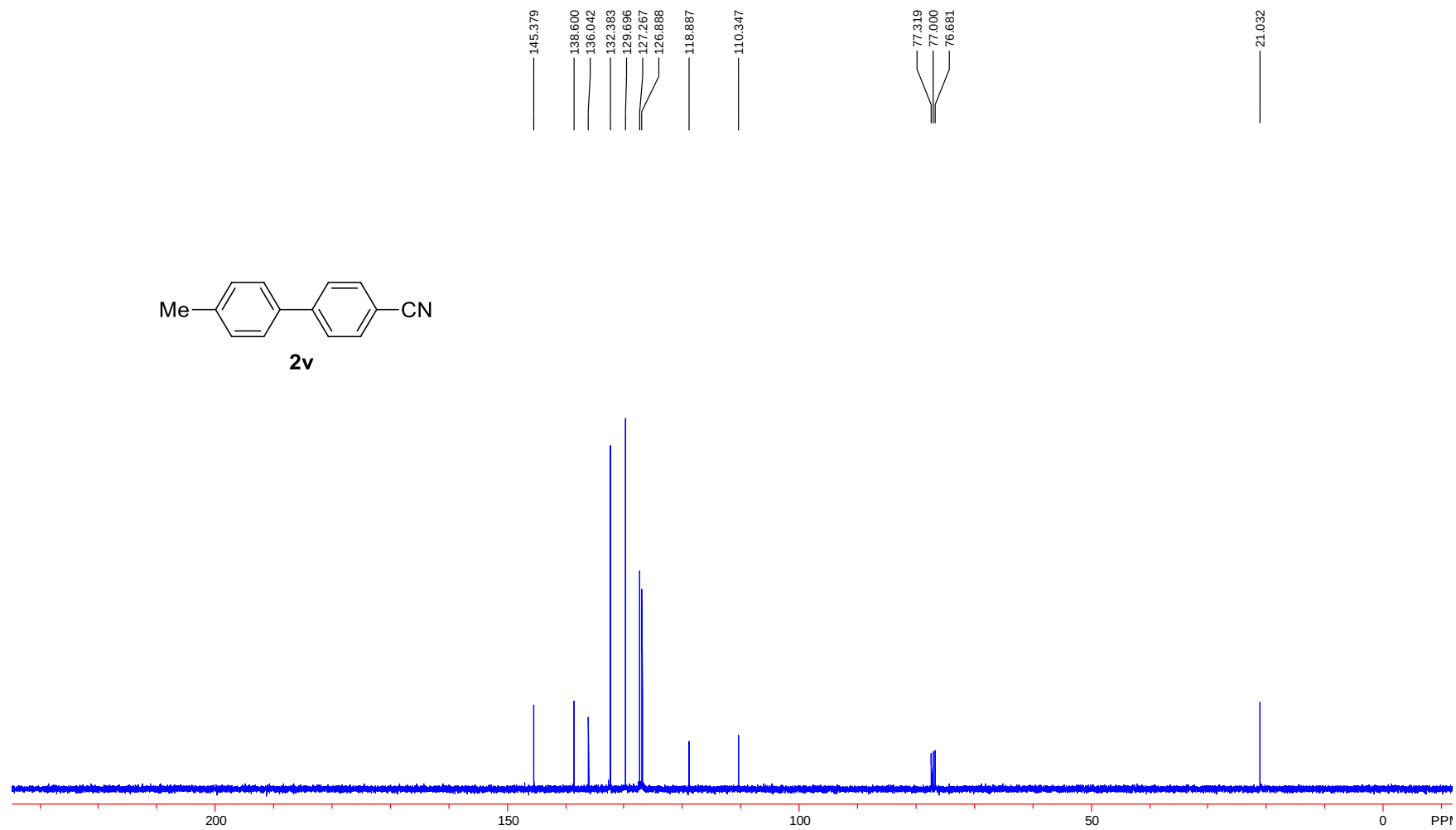
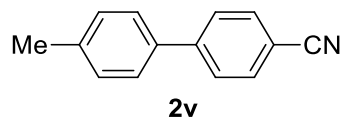
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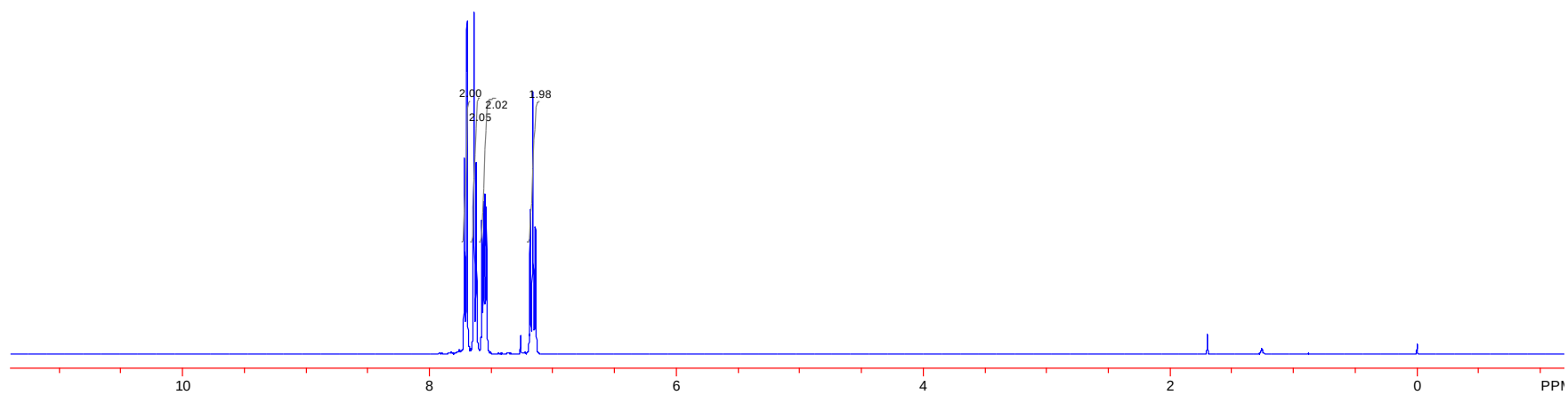
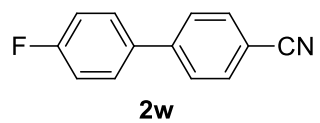
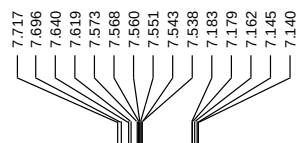
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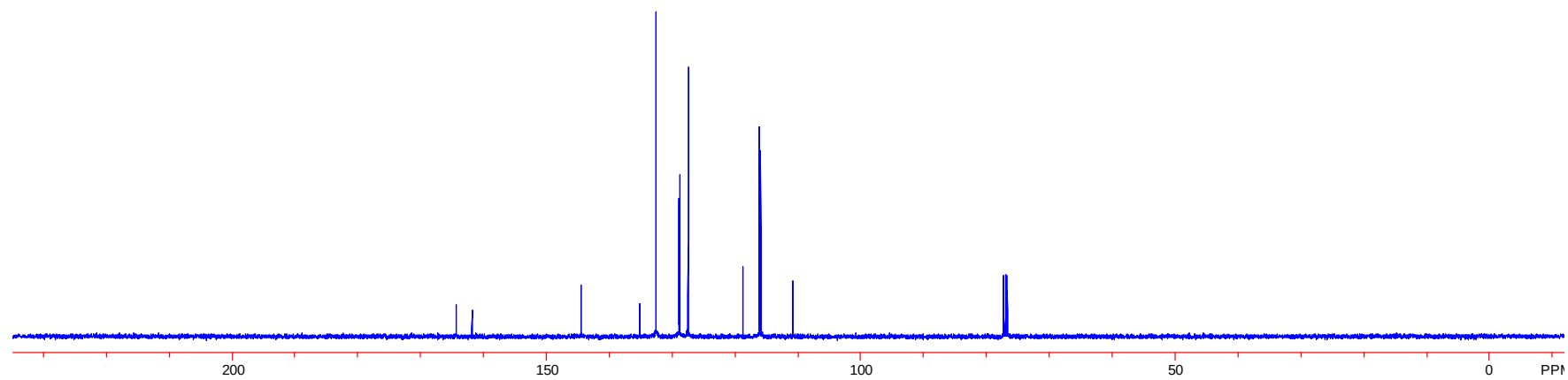
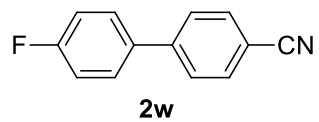
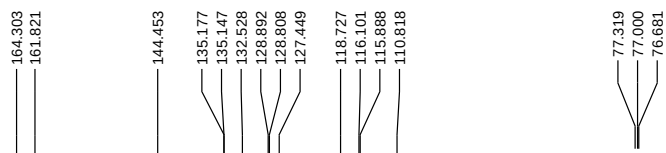
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^1H NMR(400 MHz, CDCl_3)



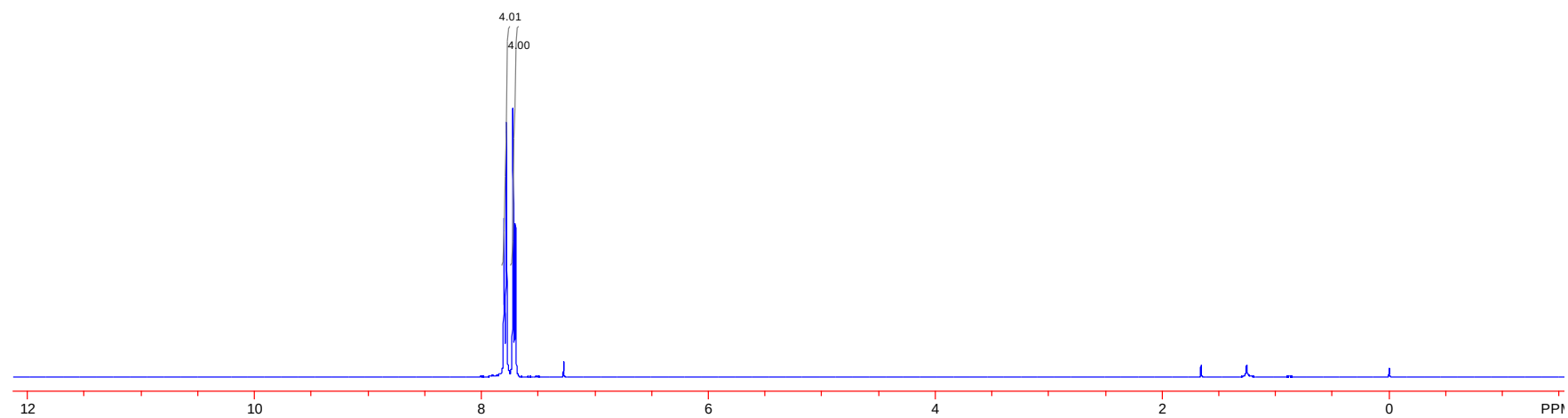
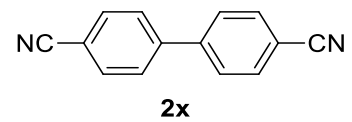
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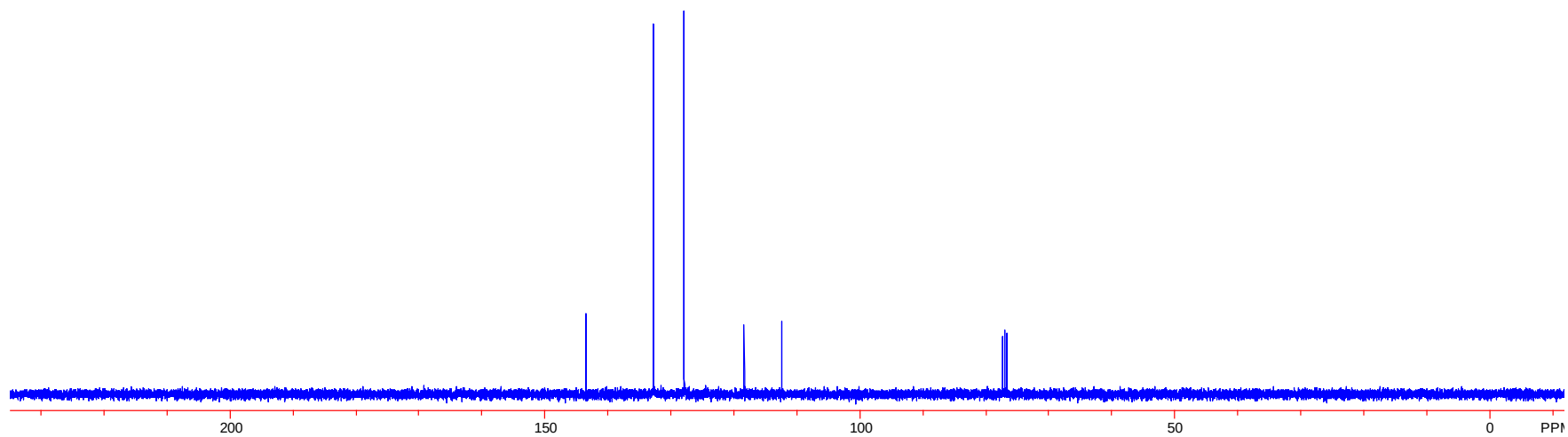
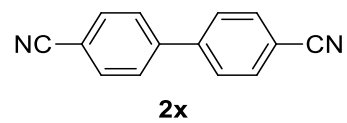
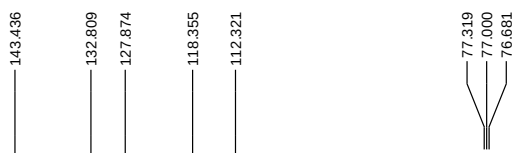
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7.800
7.780
7.721
7.700
7.275

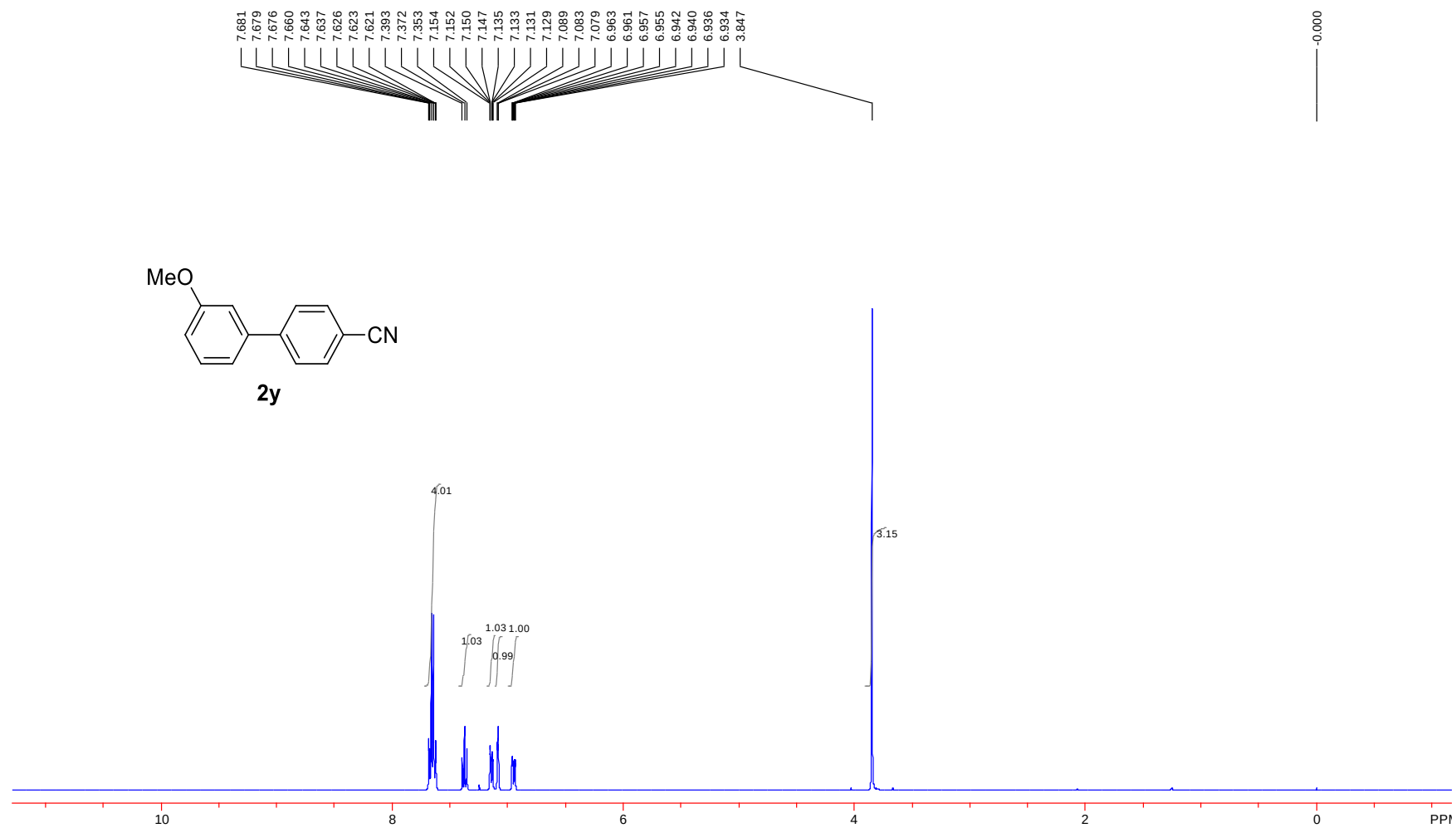
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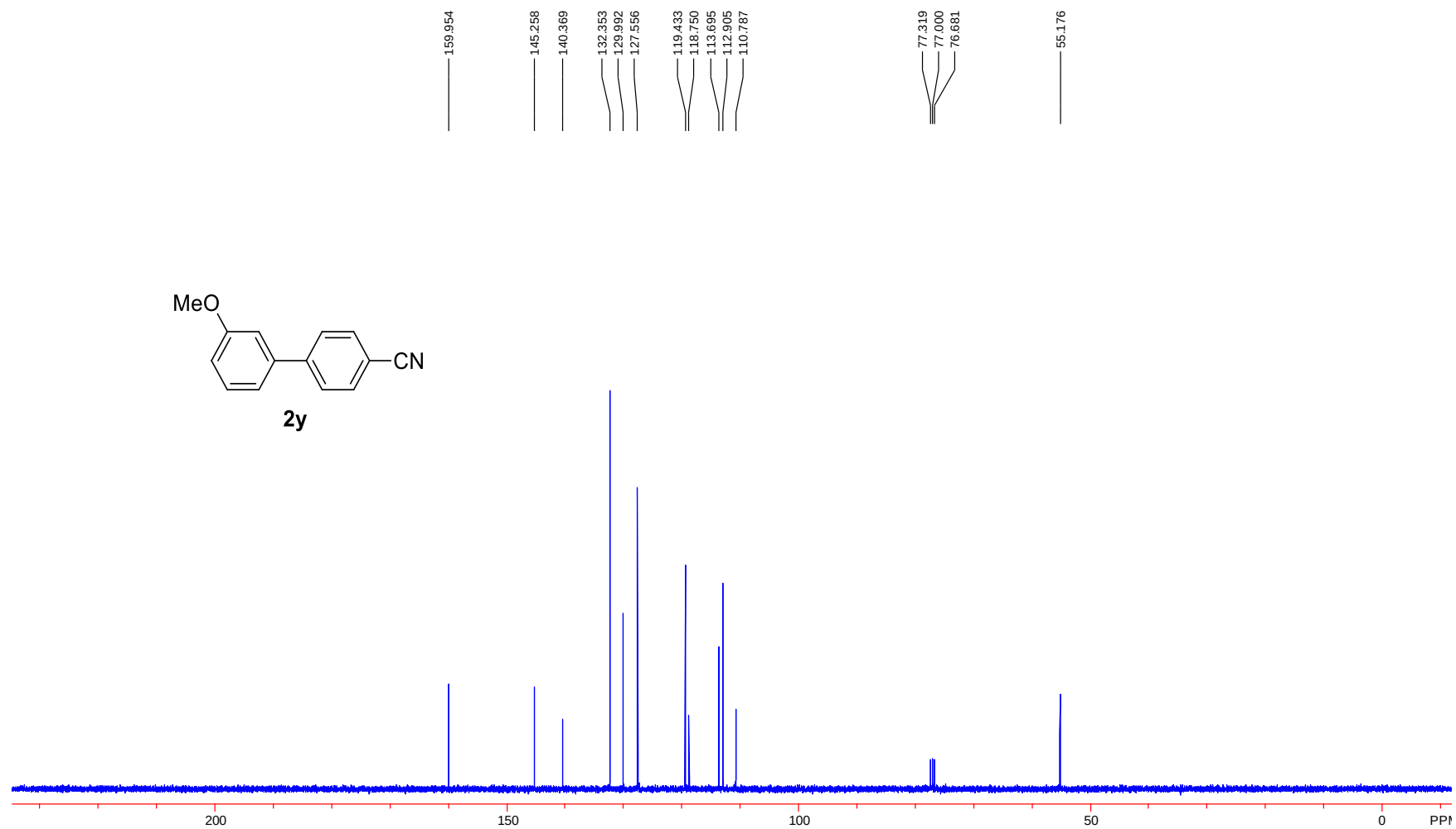
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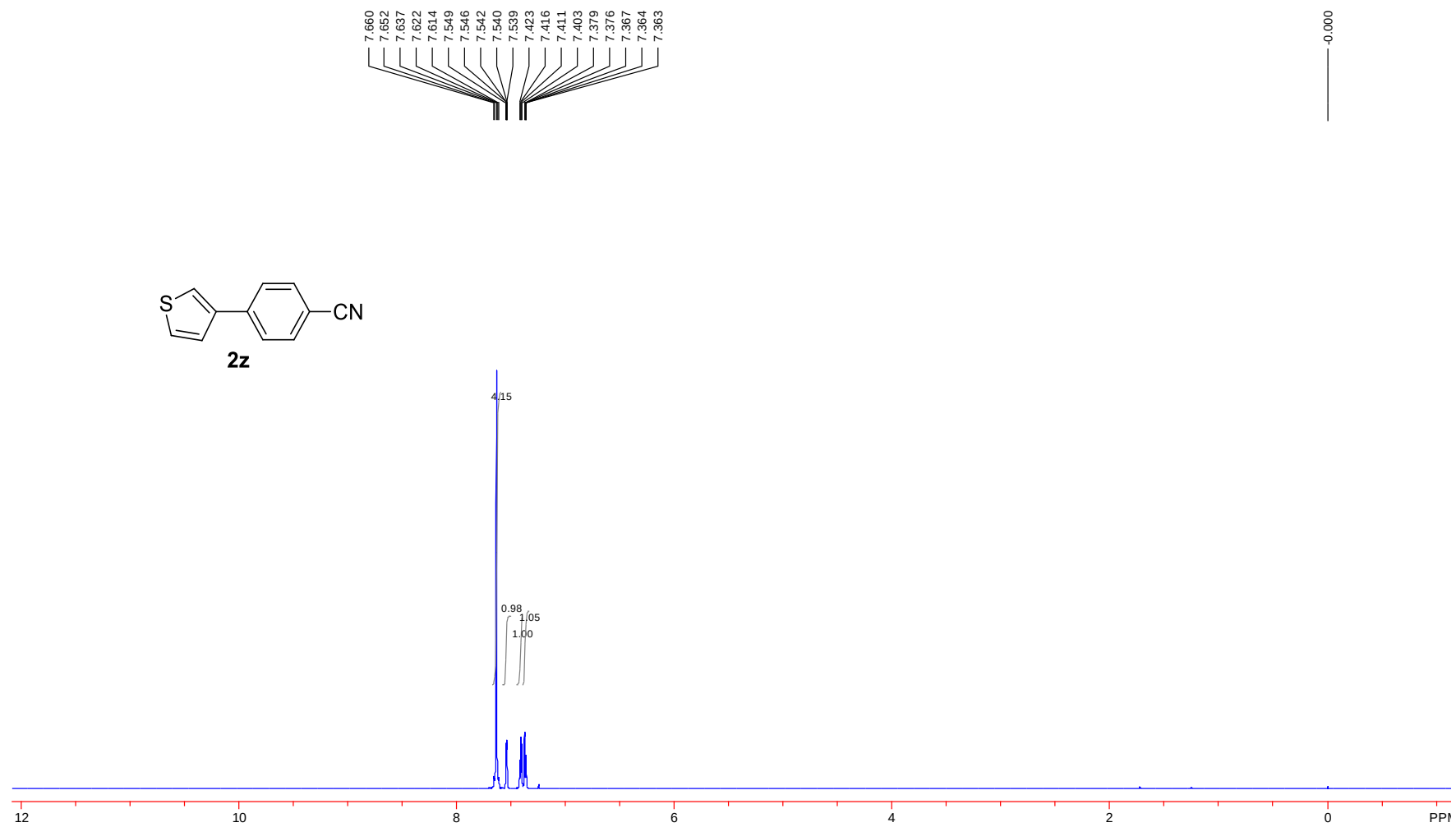
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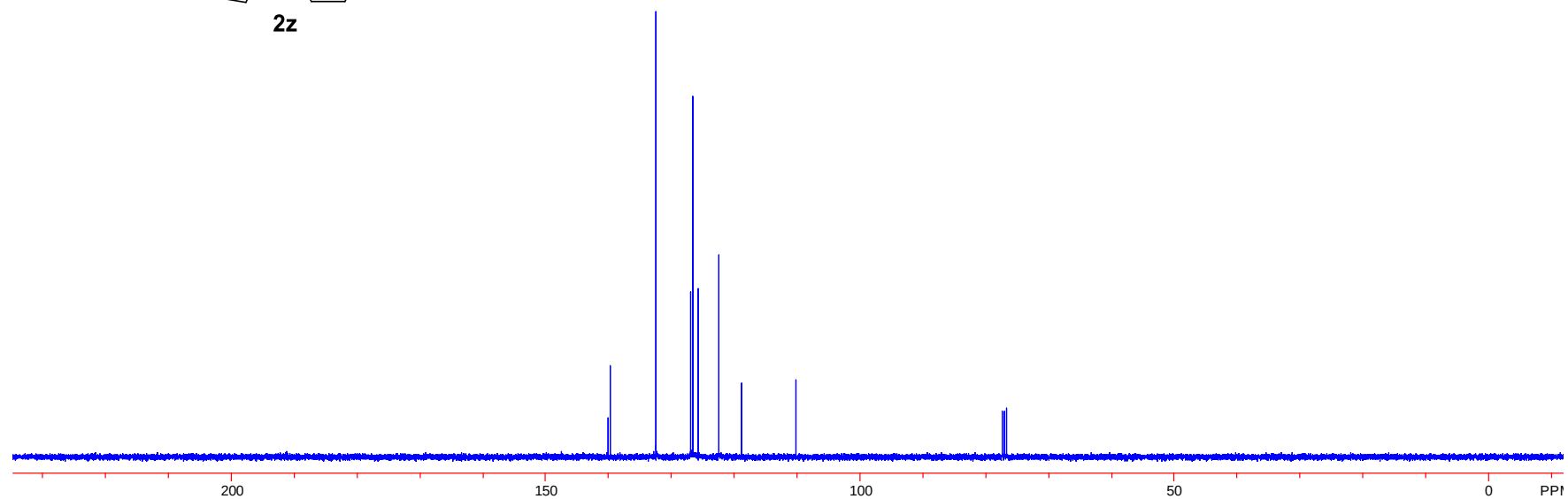
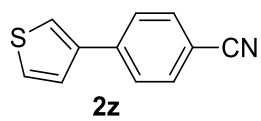
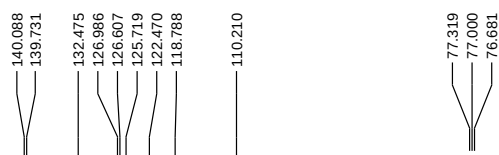
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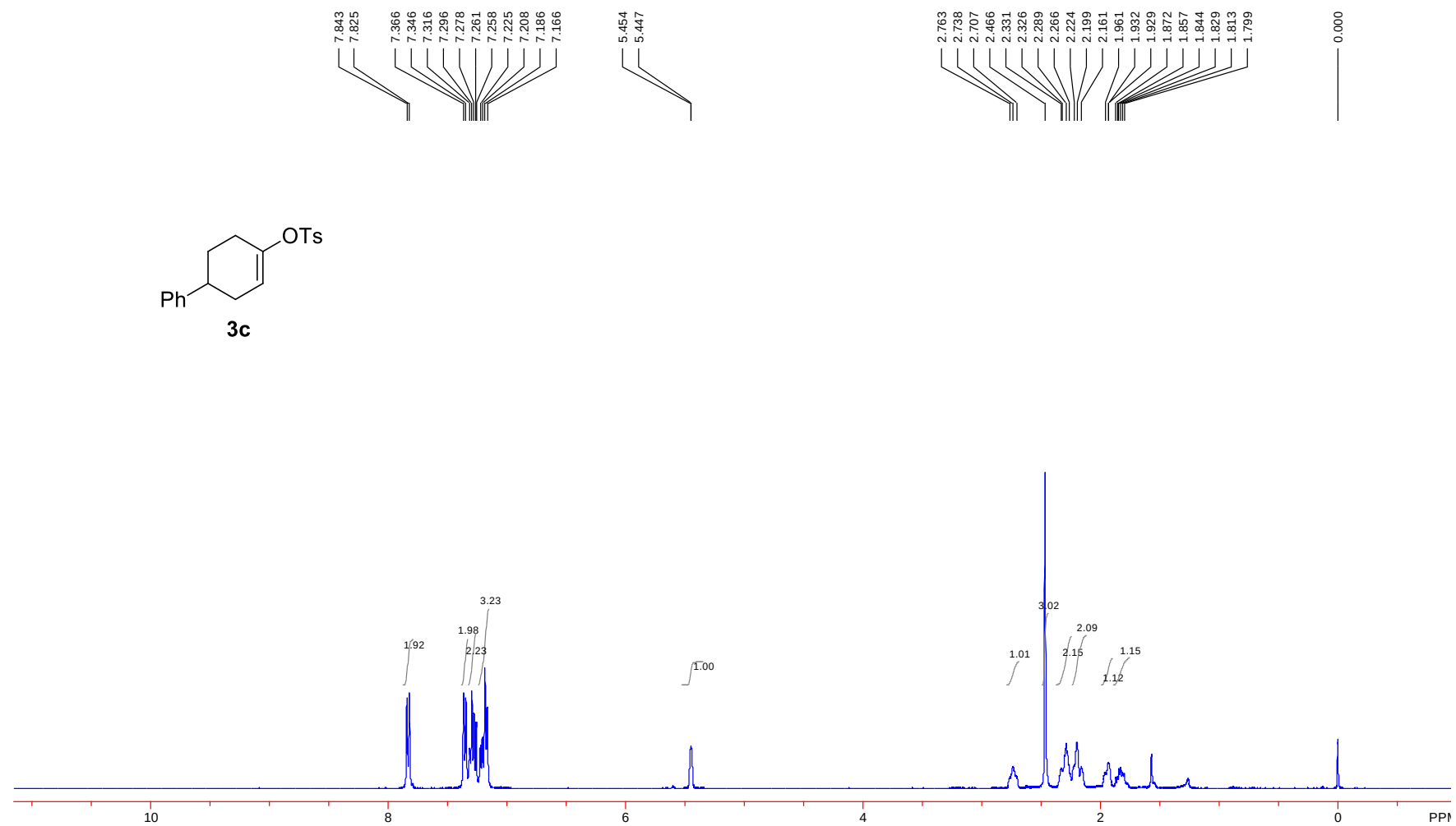
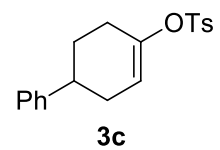


^1H NMR(400 MHz, CDCl_3)

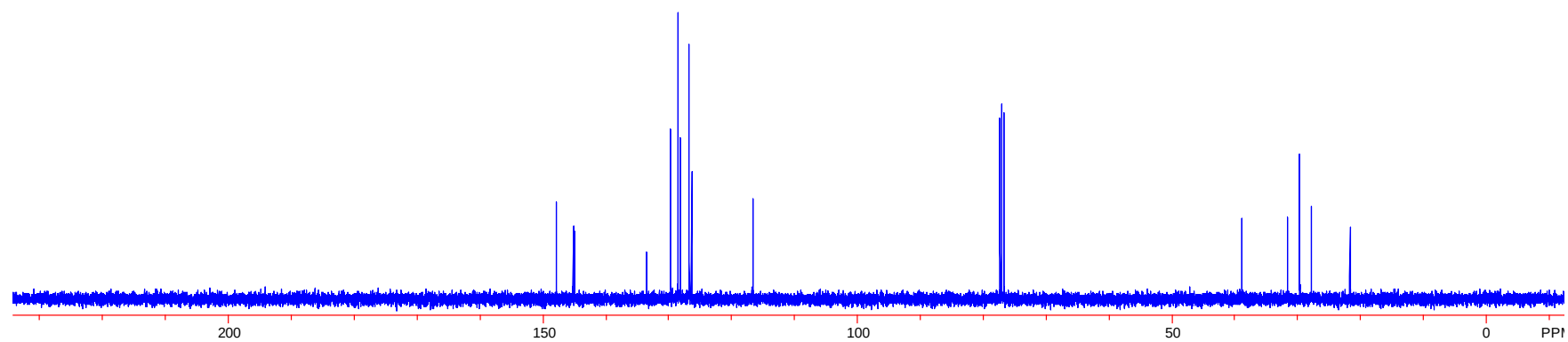
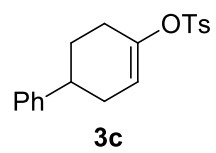
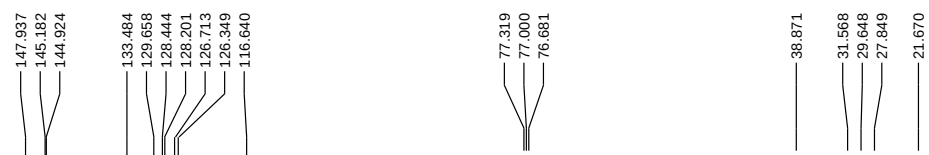


^{13}C NMR(100 MHz, CDCl_3)

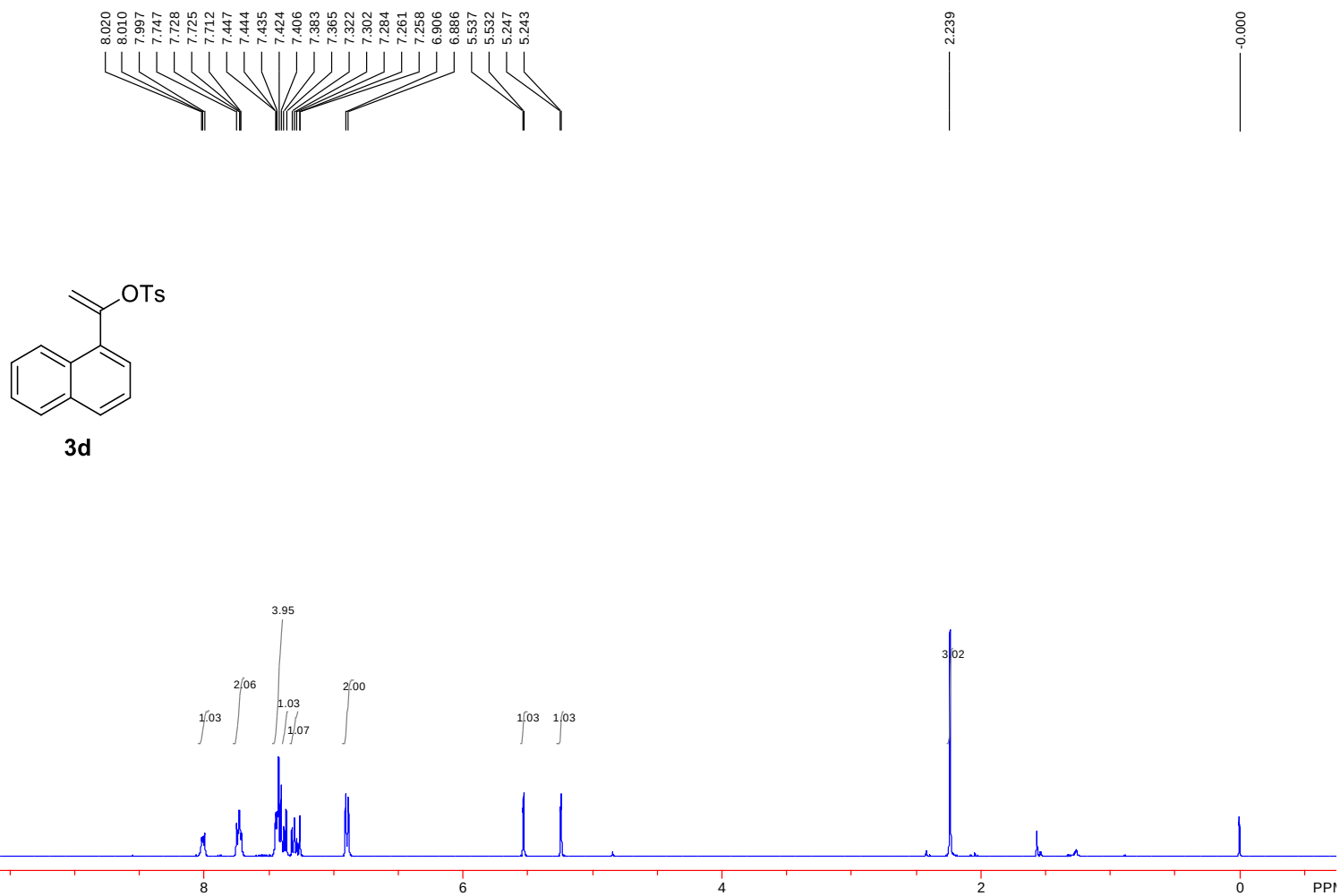


¹H NMR(400 MHz, CDCl₃)

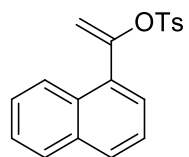
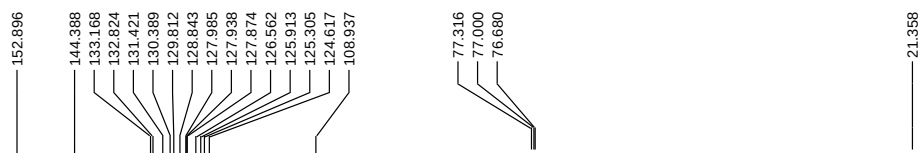
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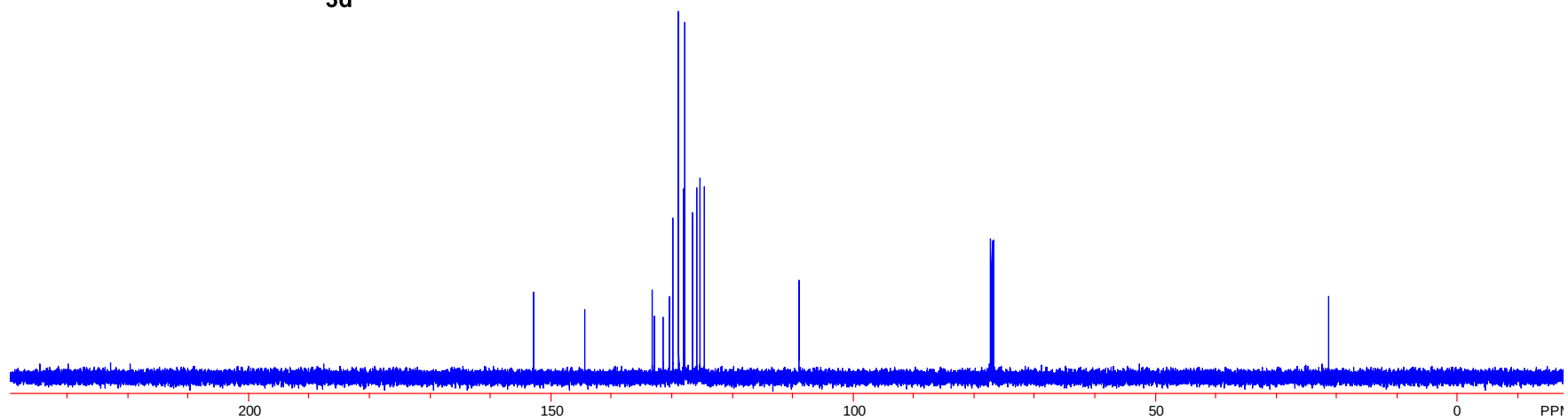
^1H NMR(400 MHz, CDCl_3)



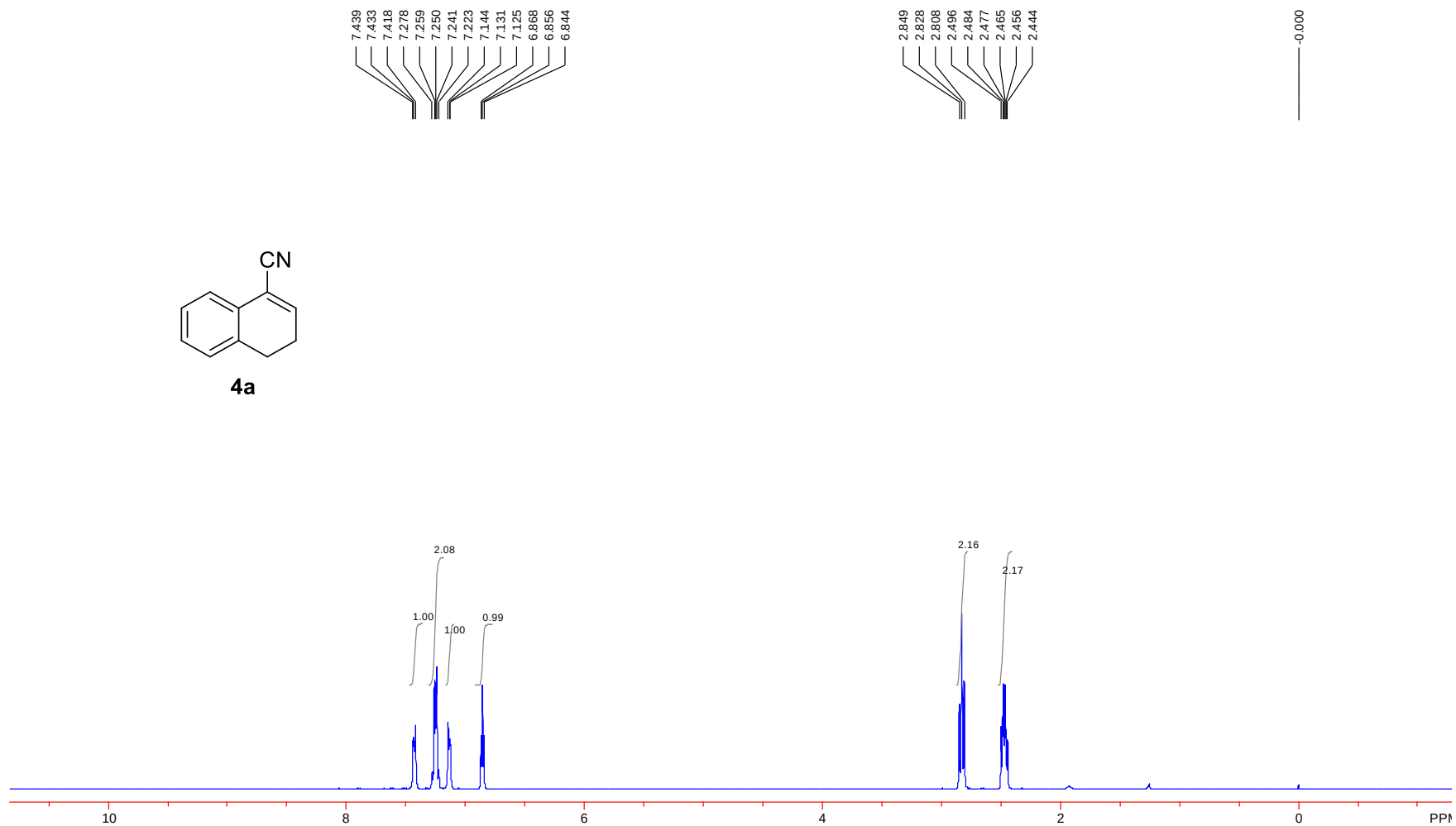
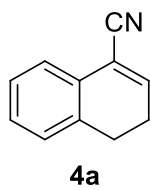
^{13}C NMR(100 MHz, CDCl_3)



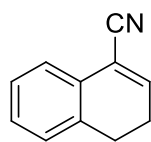
3d



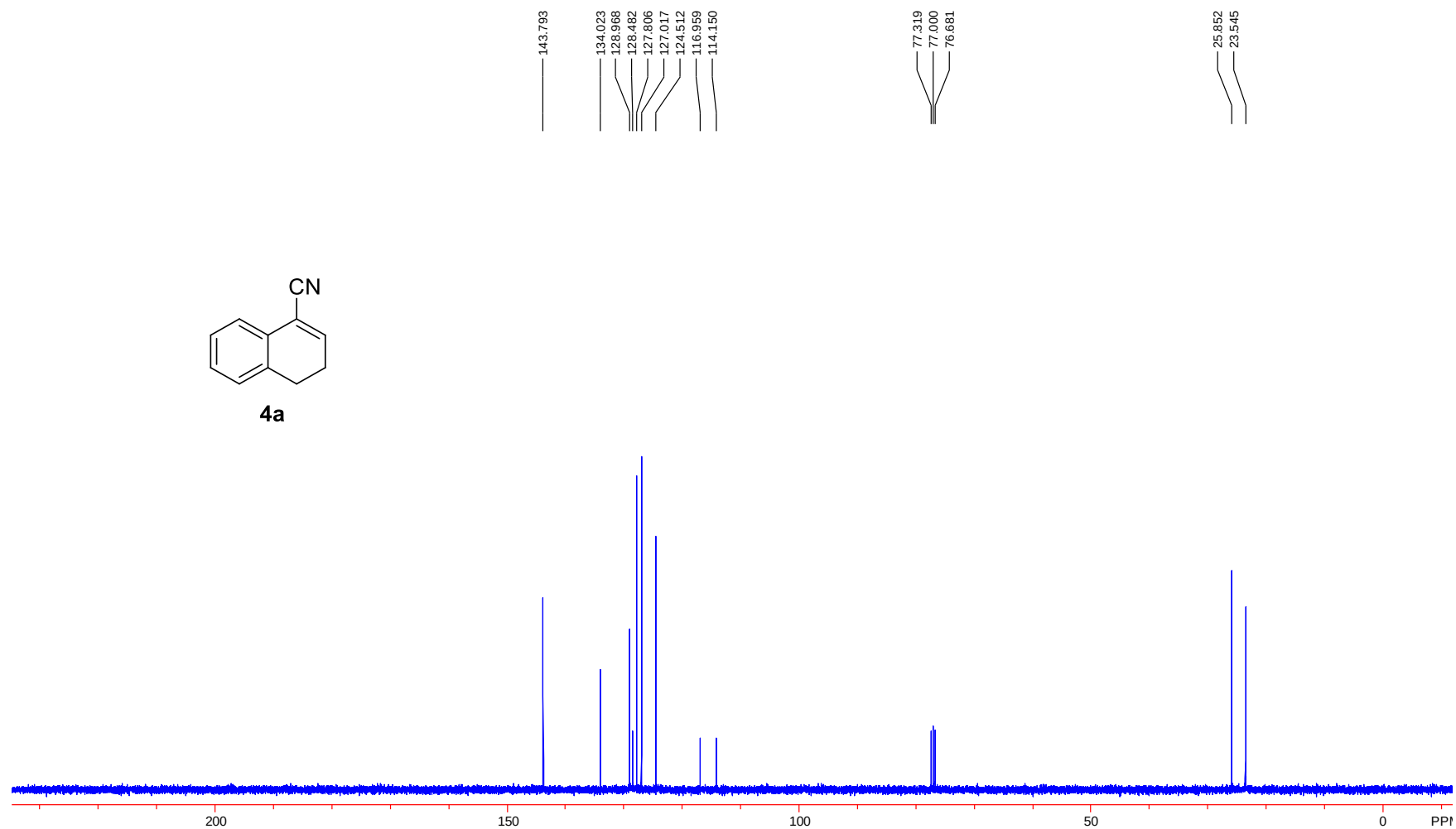
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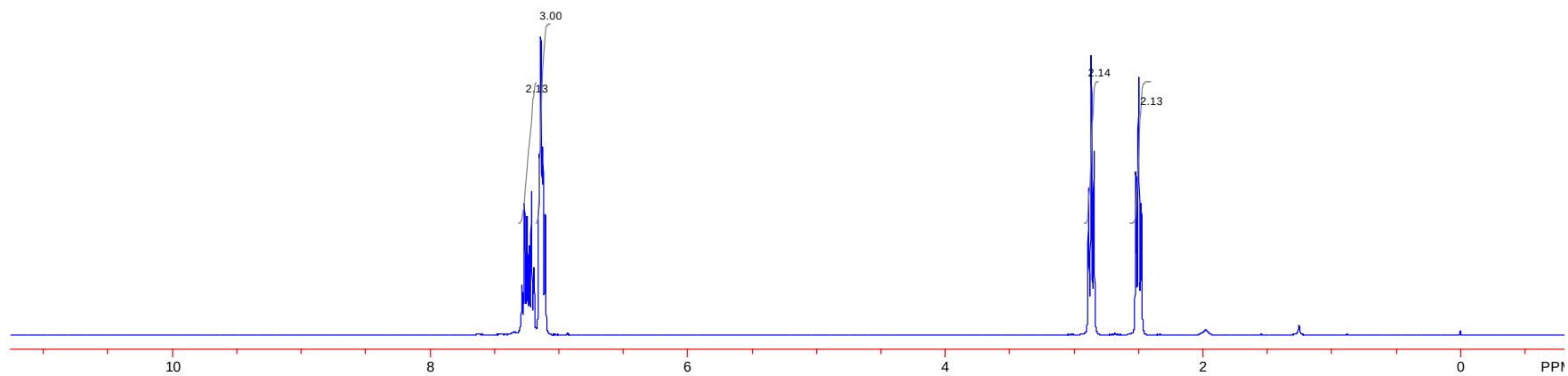
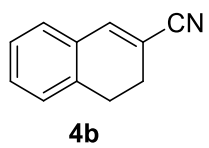
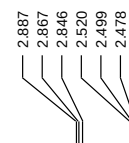
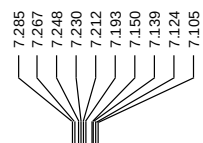
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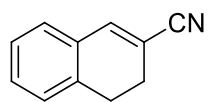
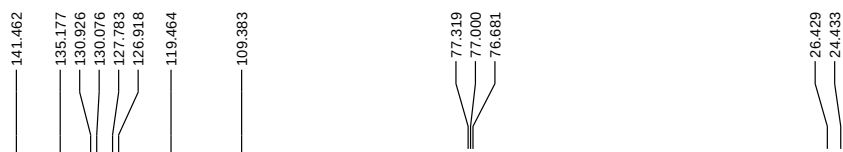
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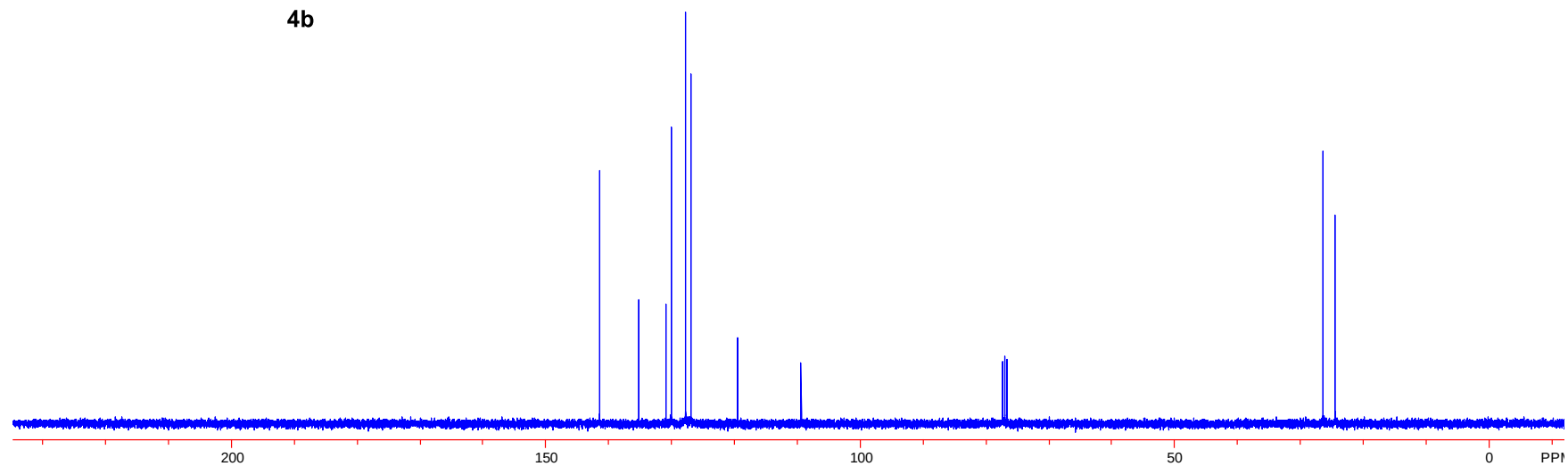
^1H NMR(400 MHz, CDCl_3)



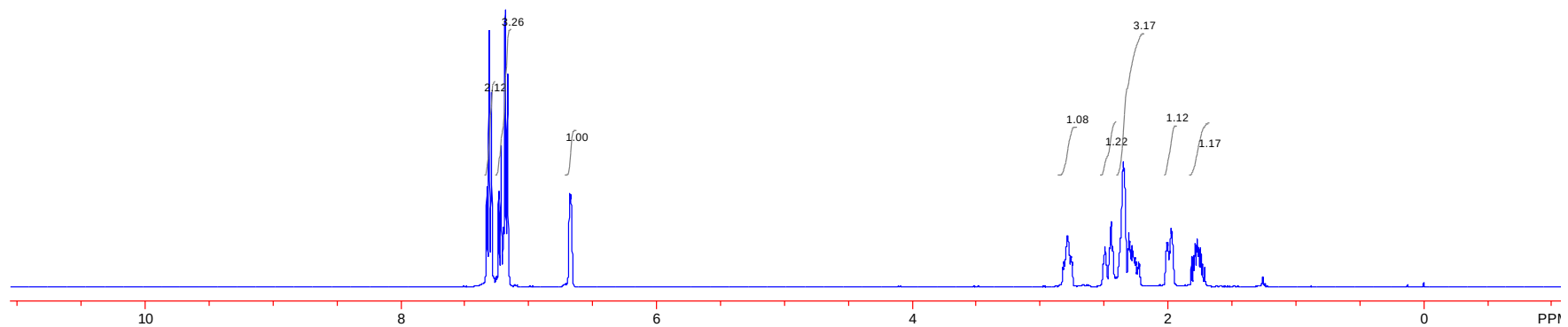
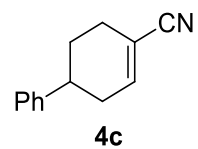
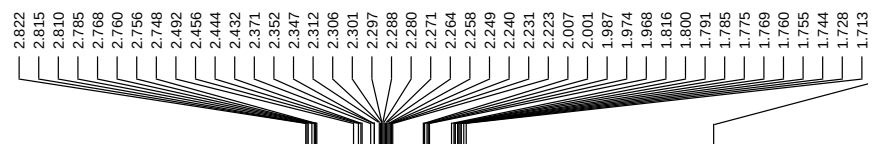
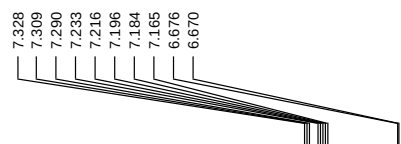
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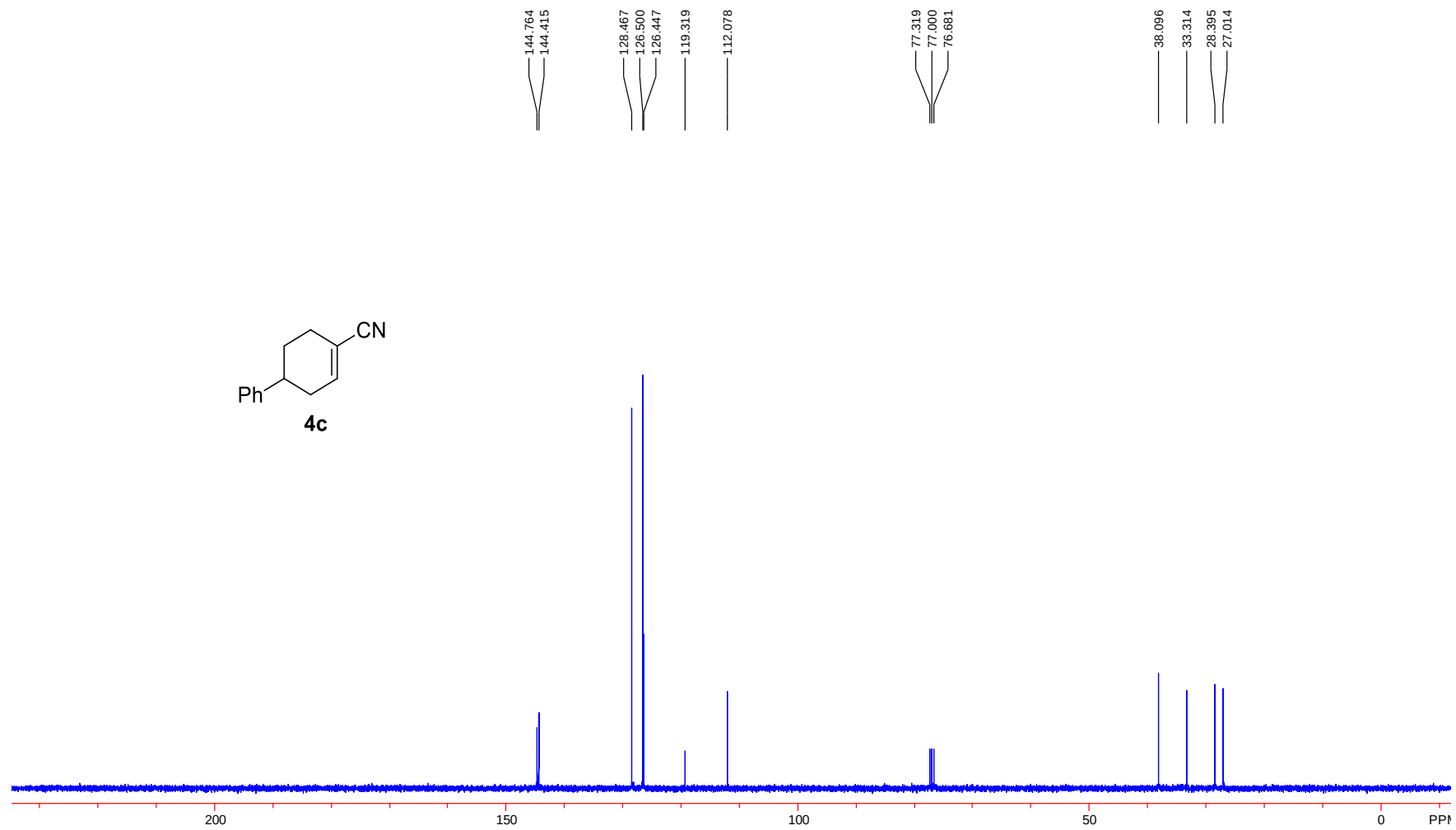
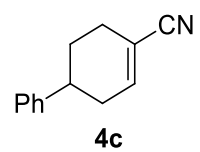
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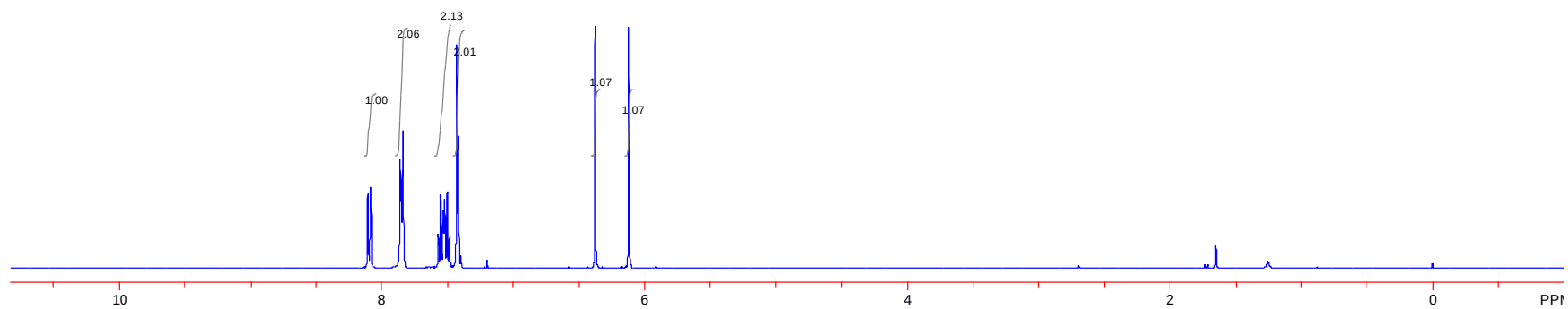
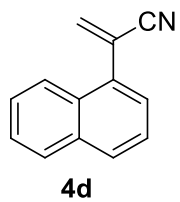
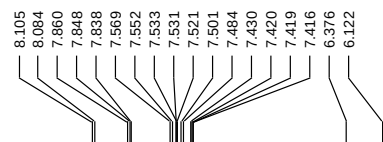
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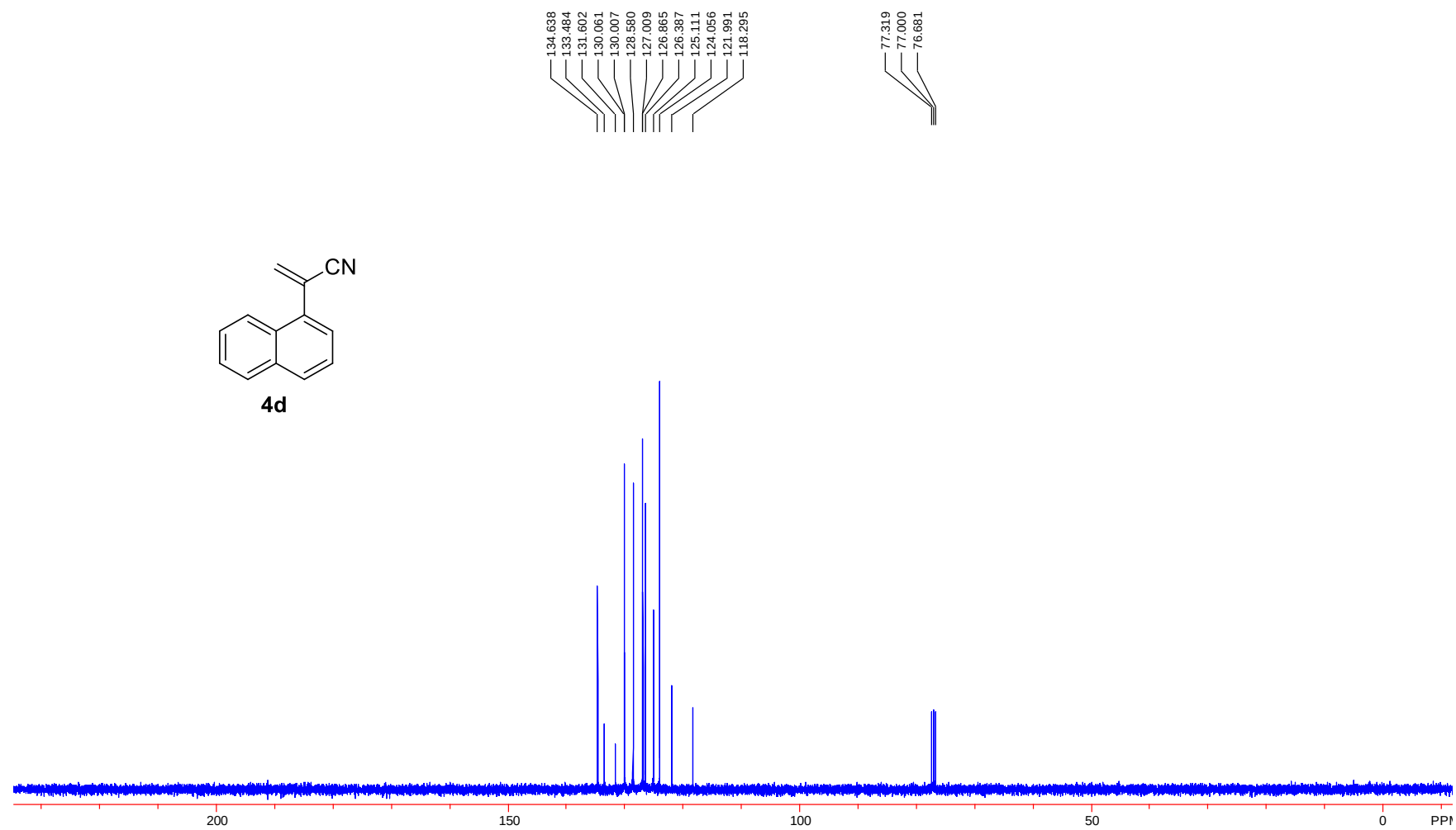
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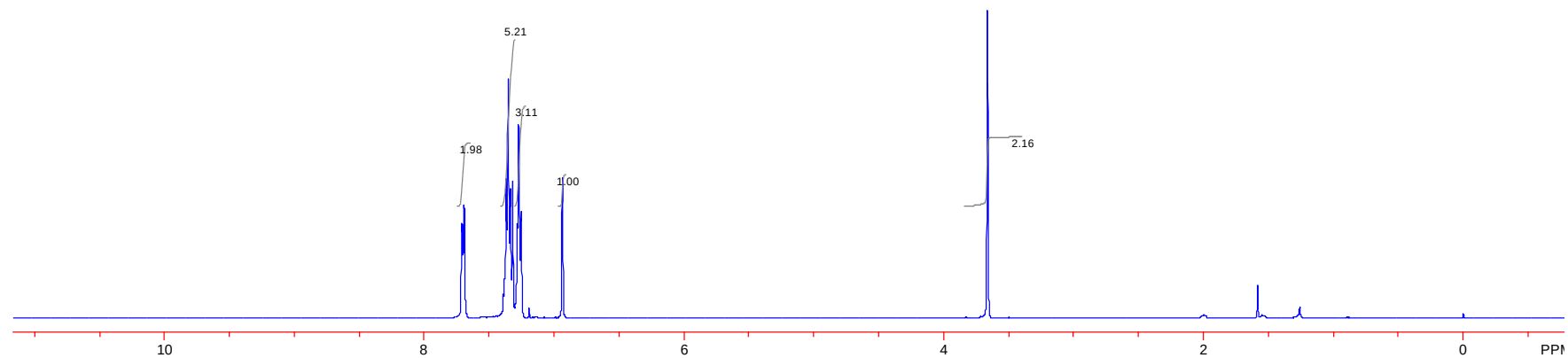
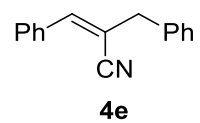
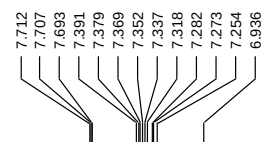
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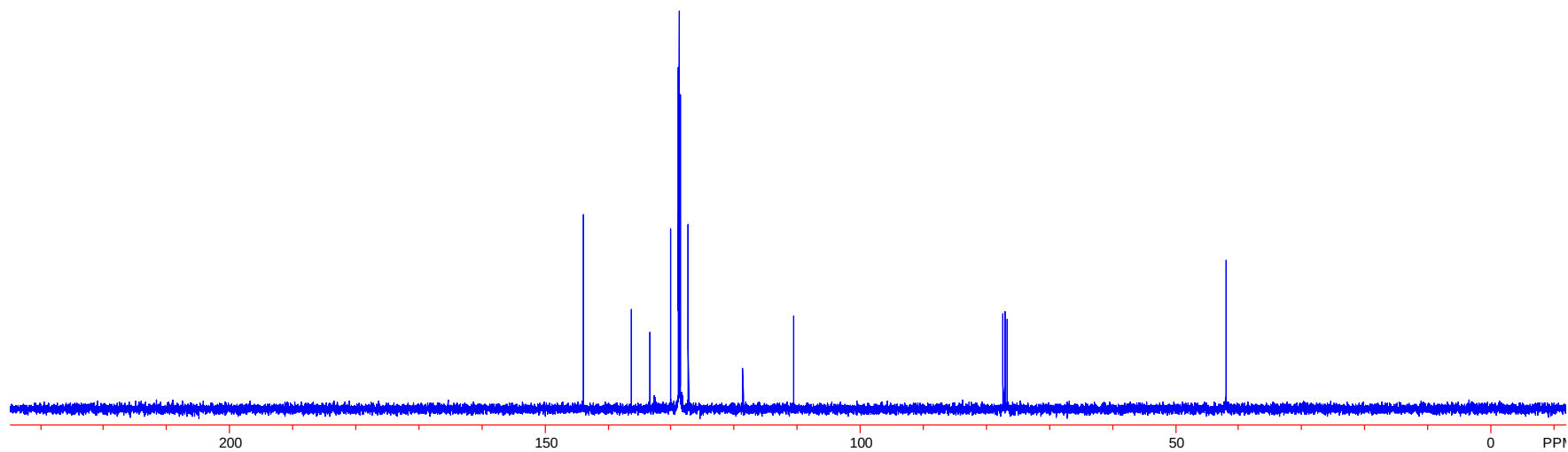
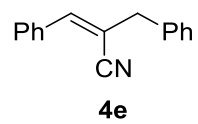
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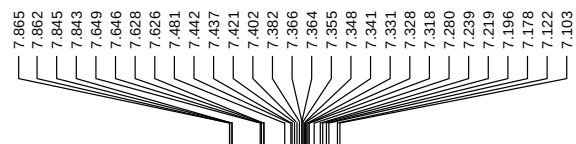
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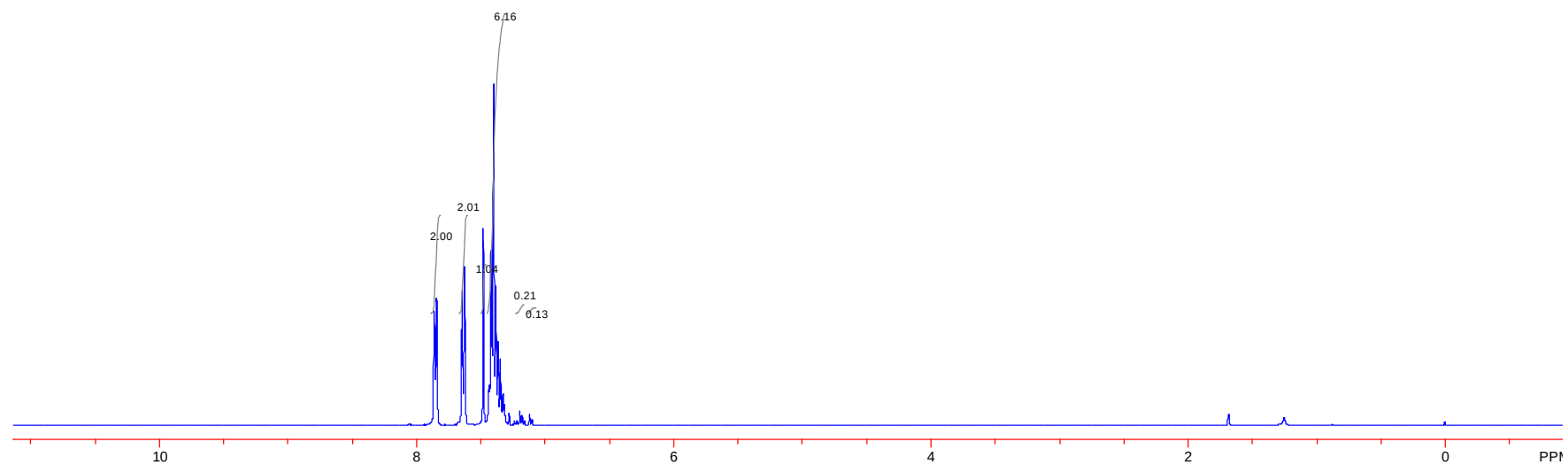
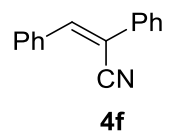
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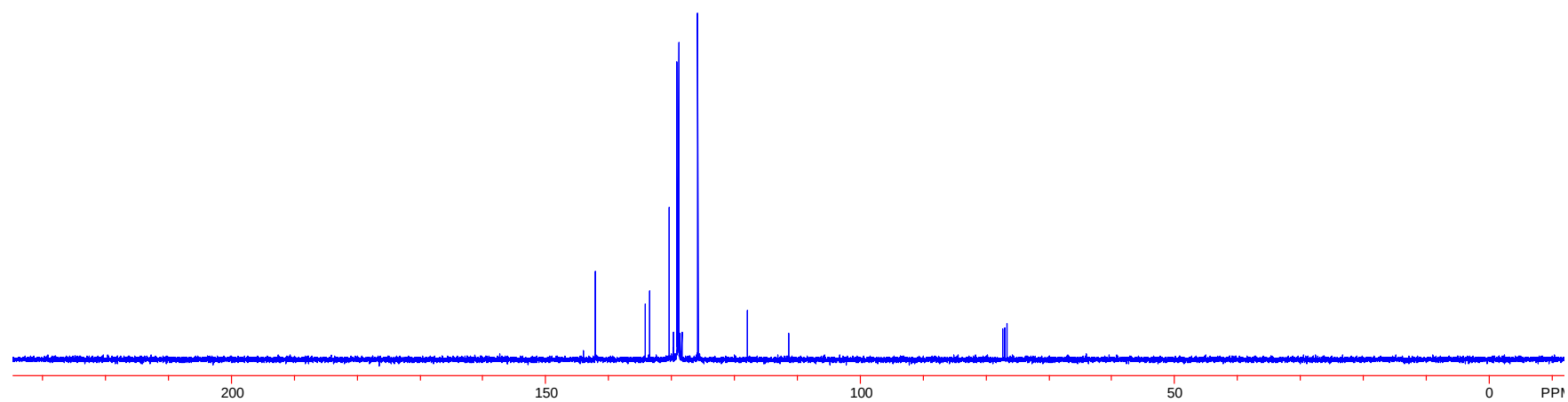
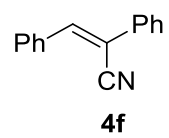
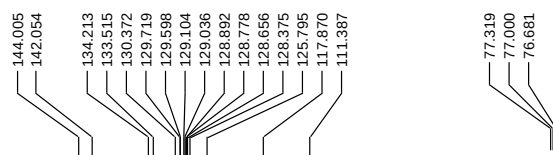
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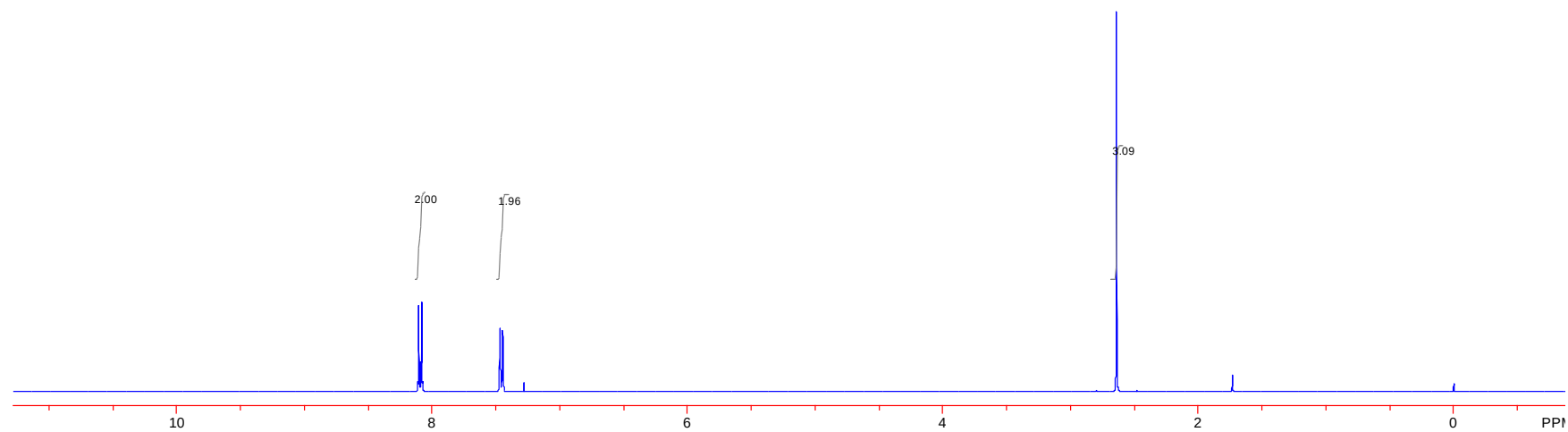
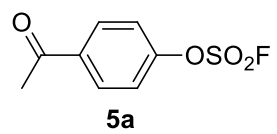
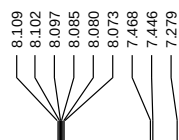
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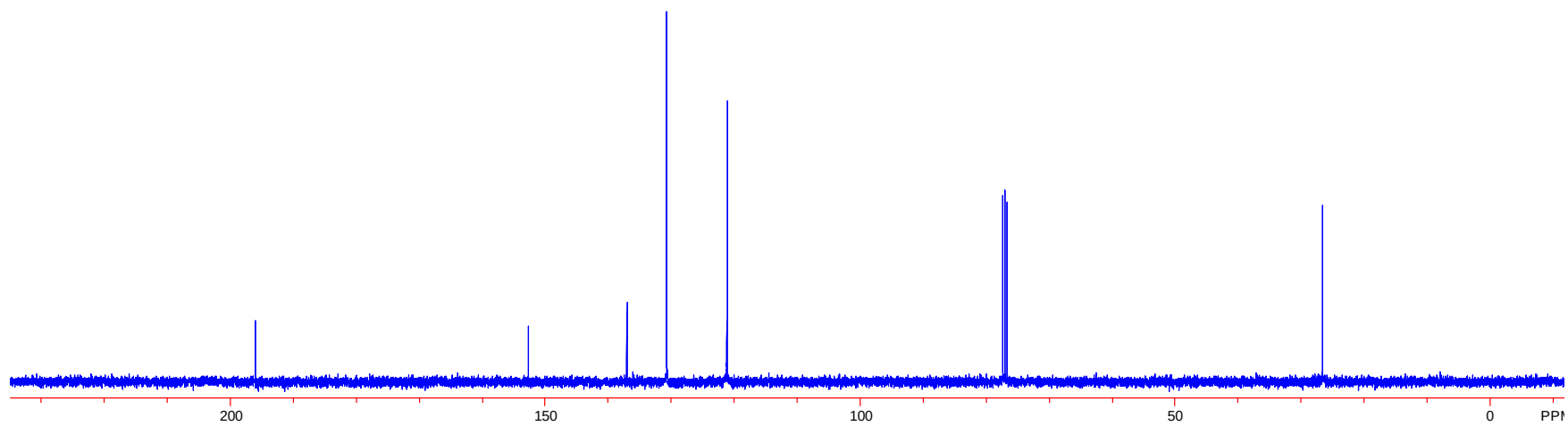
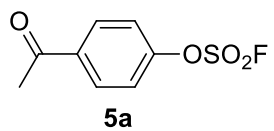
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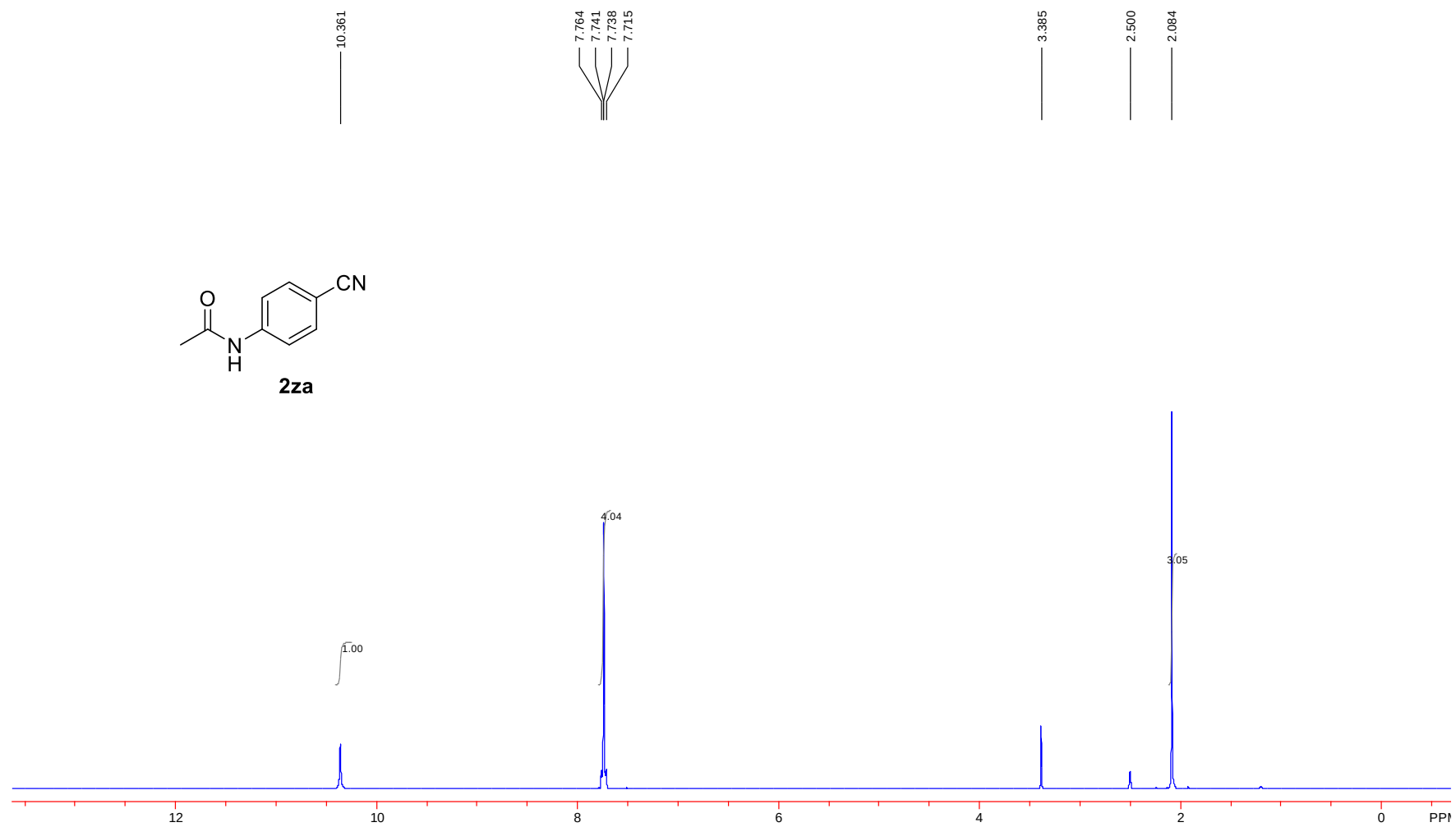
^1H NMR(400 MHz, CDCl_3)



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



^1H NMR(400 MHz, $\text{DMSO-}d_6$)



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

