

# Clicking Azides and Alkynes with Poly(pyrazolyl)borate-Copper(I) Catalysts: An Experimental and Computational Study

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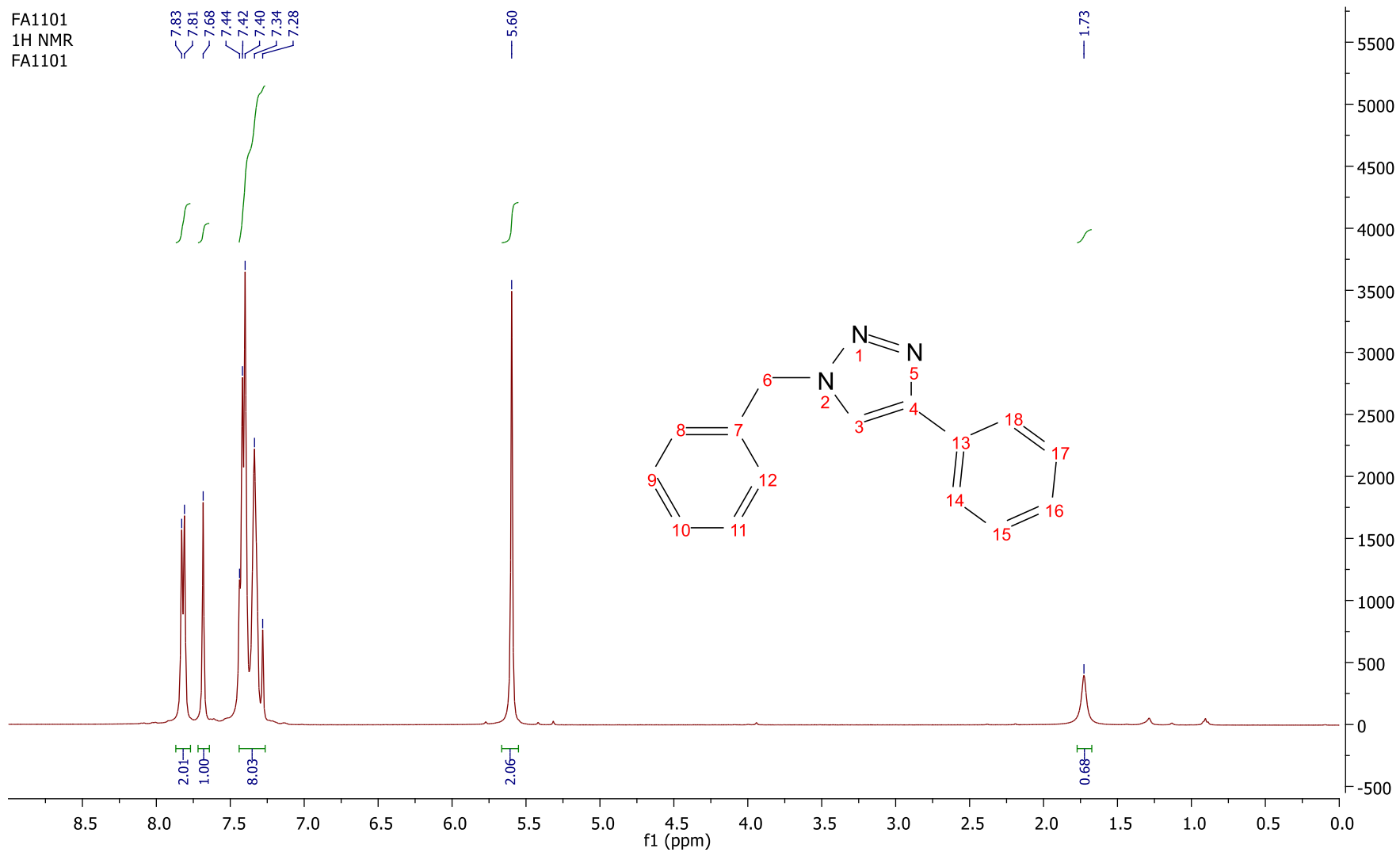
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\*Correspondence: stiriba@uv.es; Tel.: +34-96-354-44-45

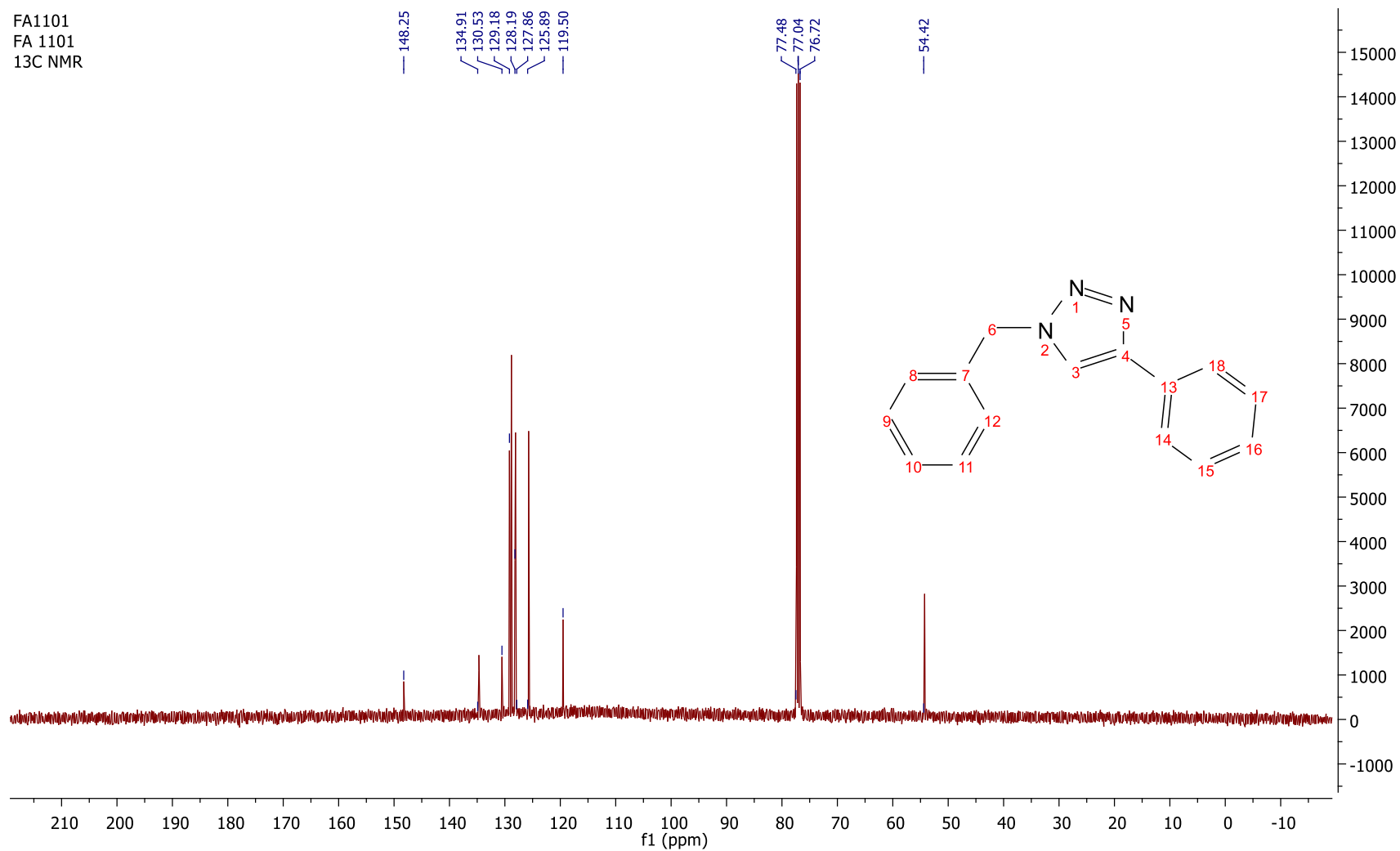
## Supplementary material



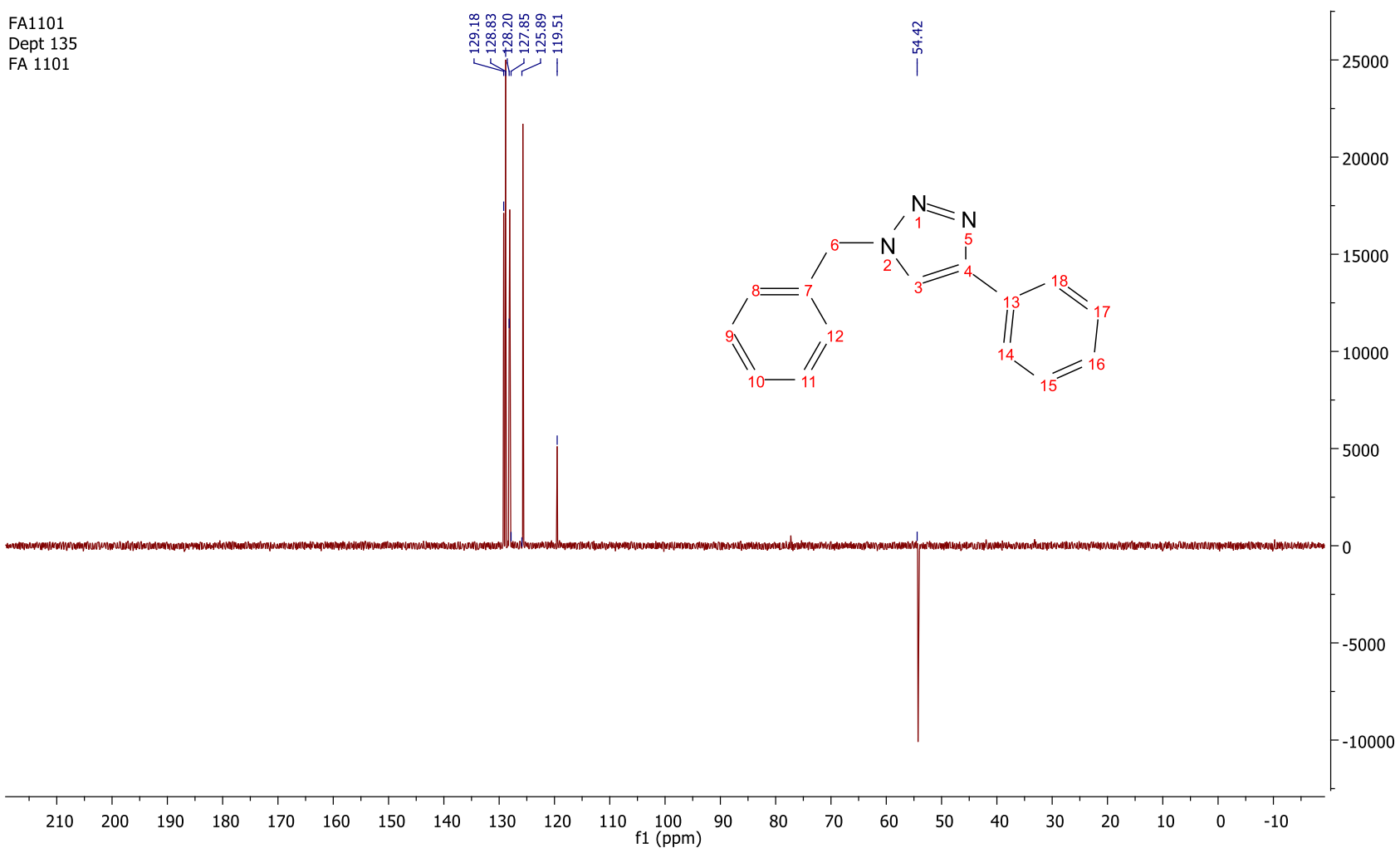
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1H NMR  
FA1101

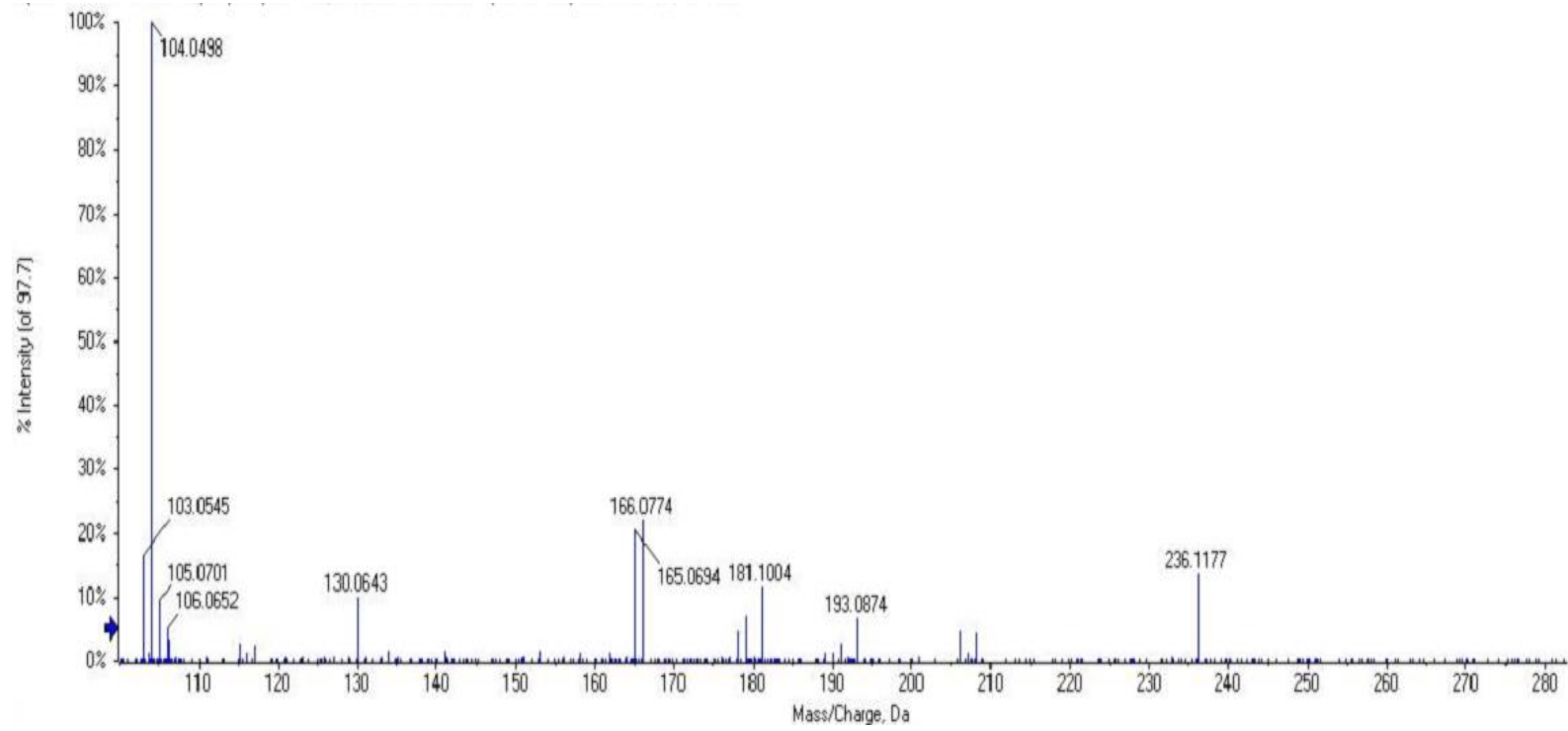
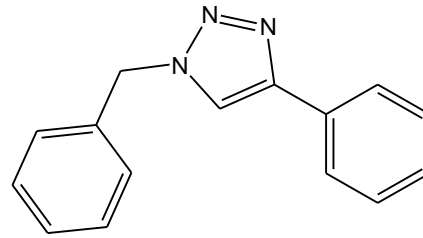


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FA 1101  
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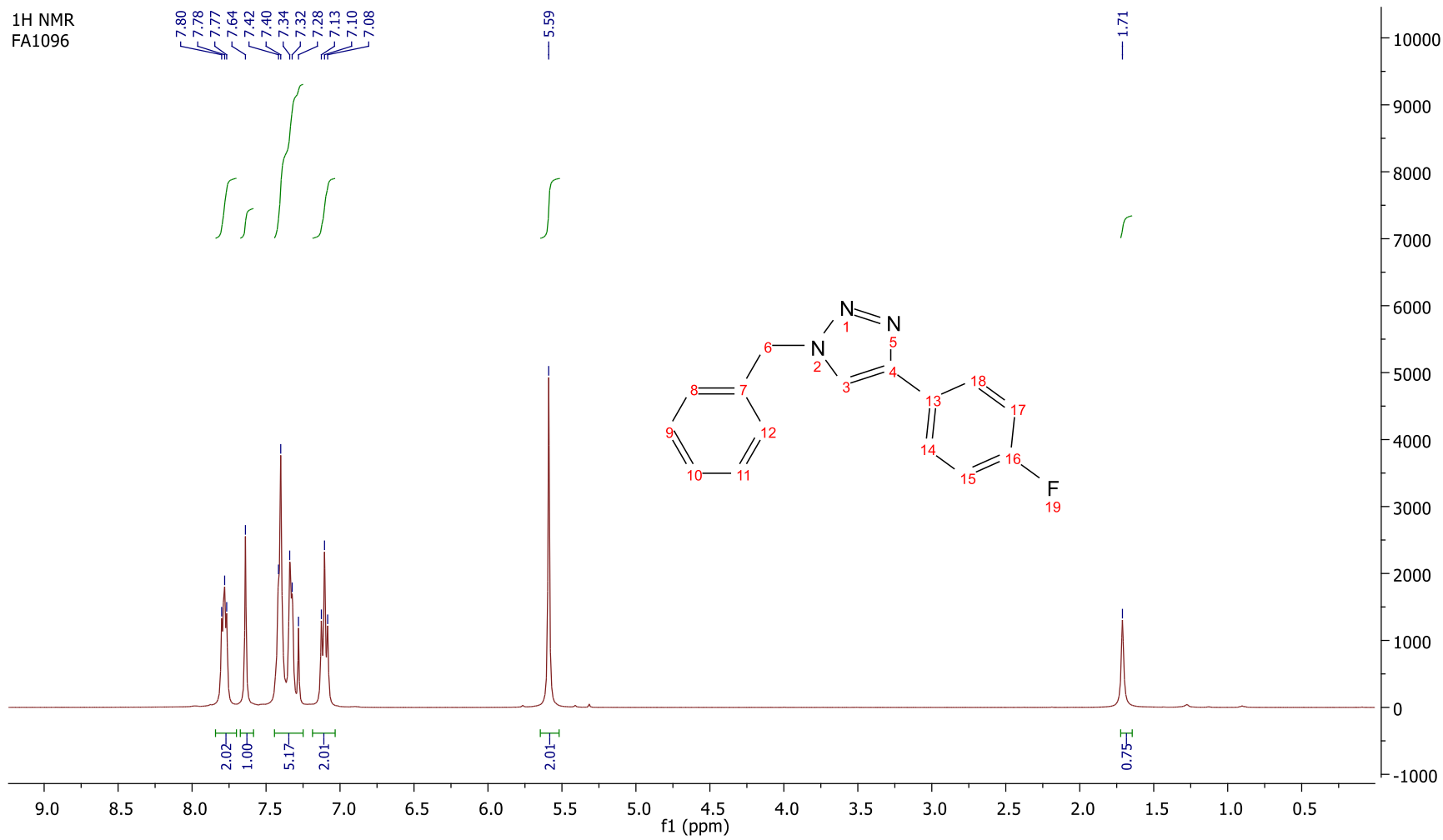


FA1101  
Dept 135  
FA 1101

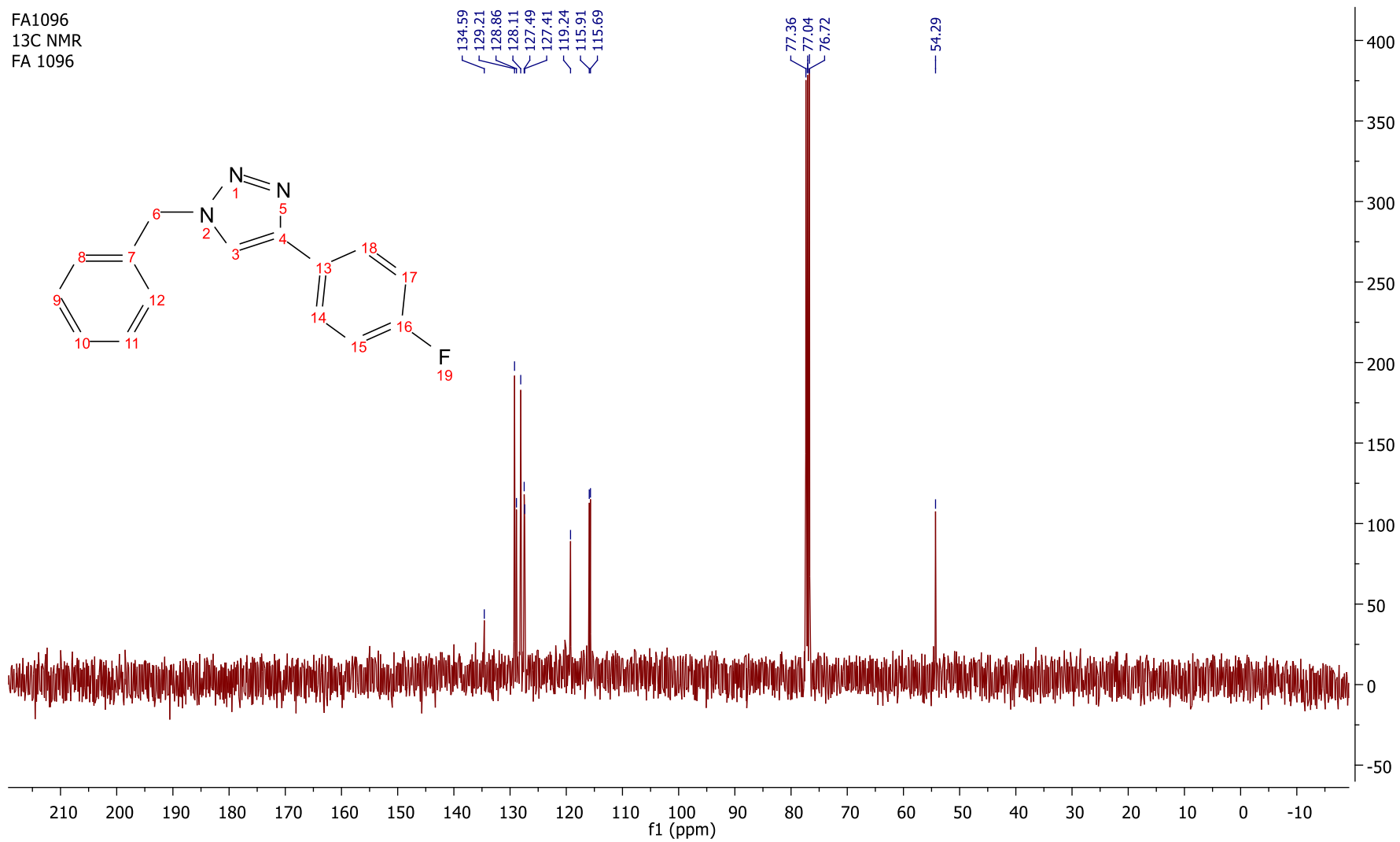




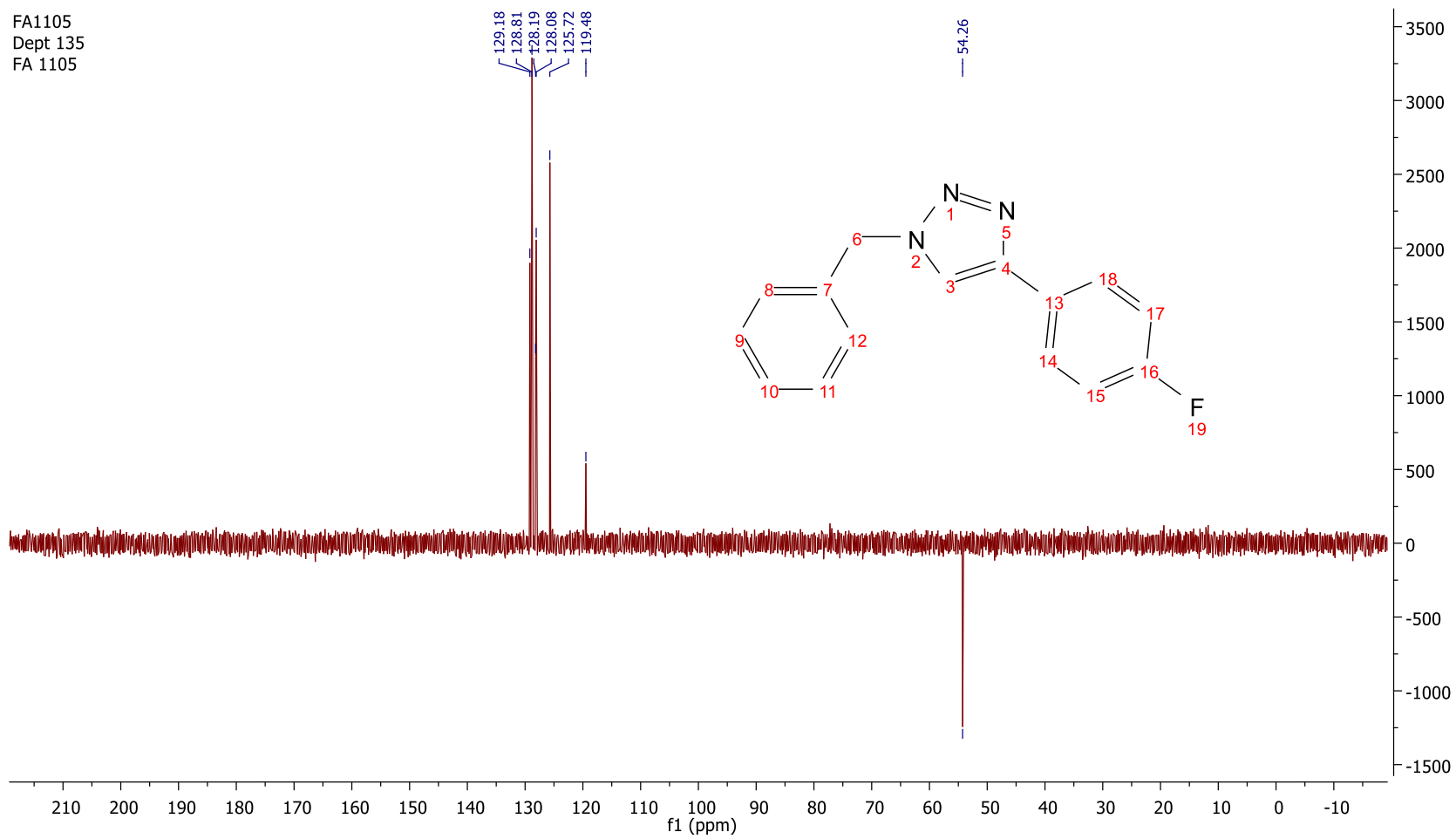
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FA1096



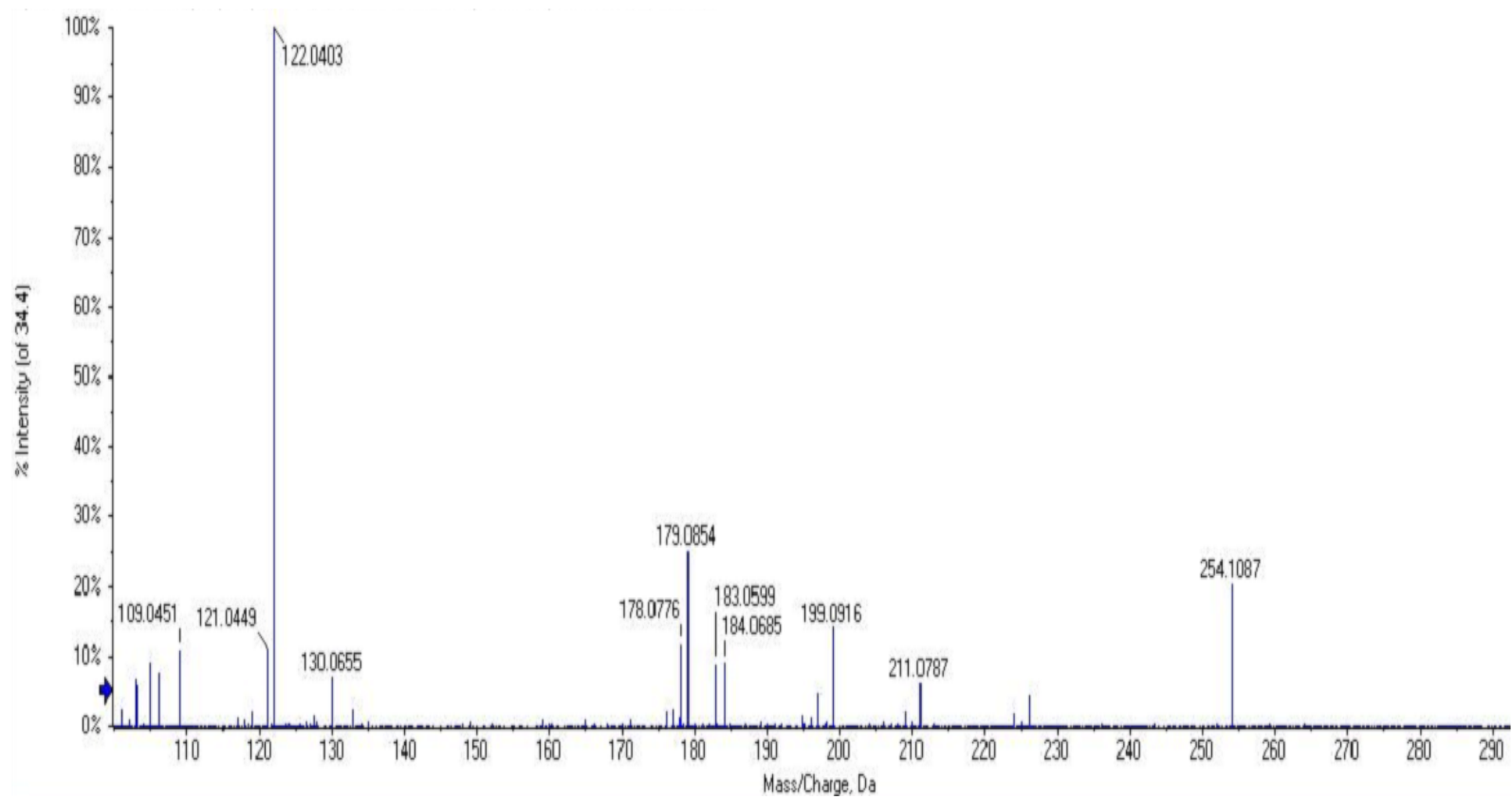
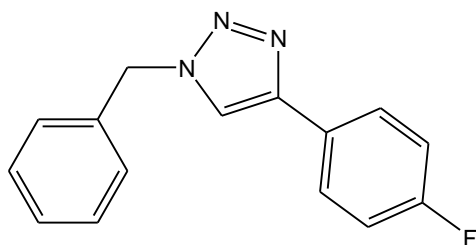
FA1096  
13C NMR  
FA 1096



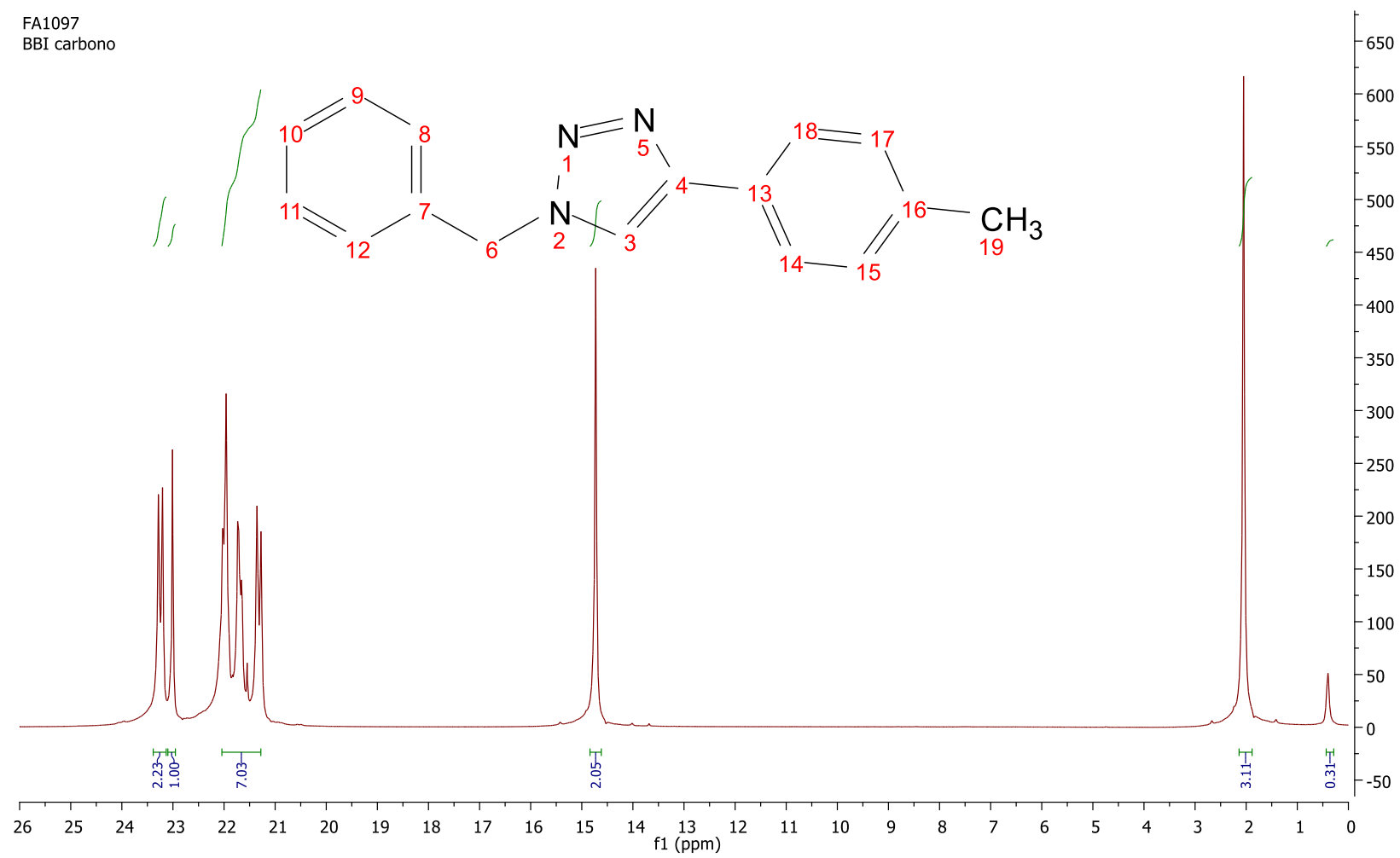
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Dept 135  
FA 1105



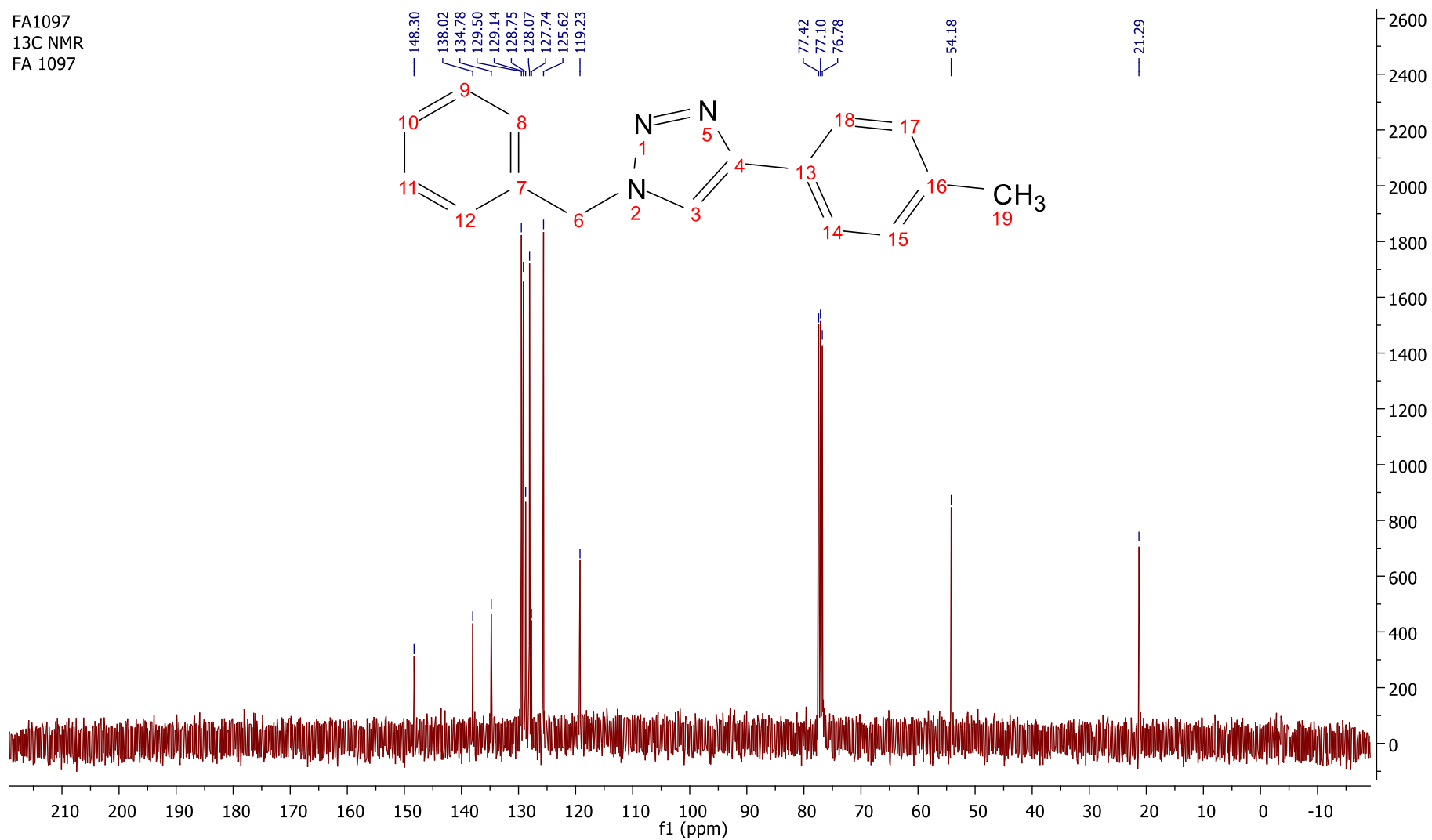




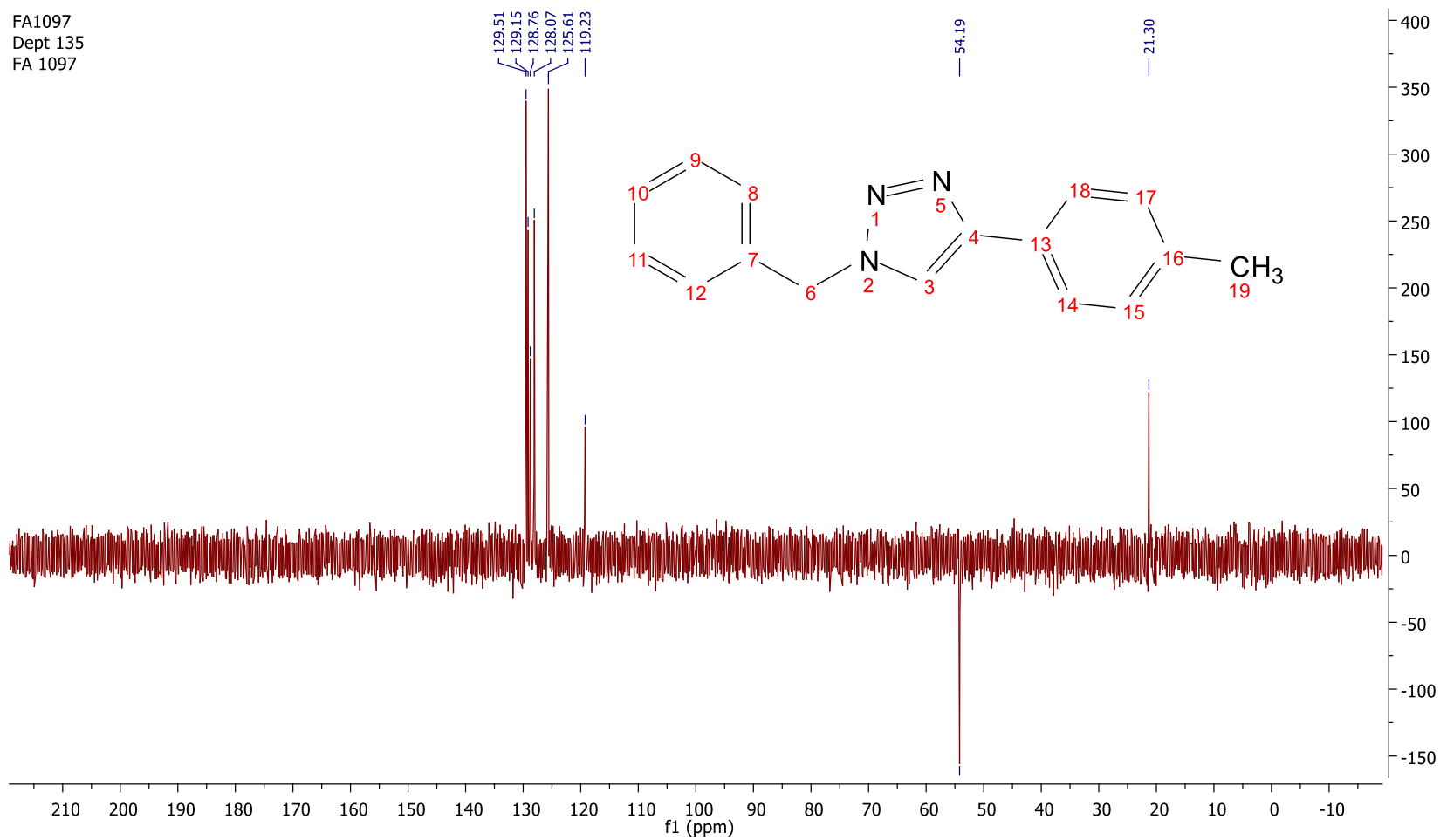
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BBI carbono

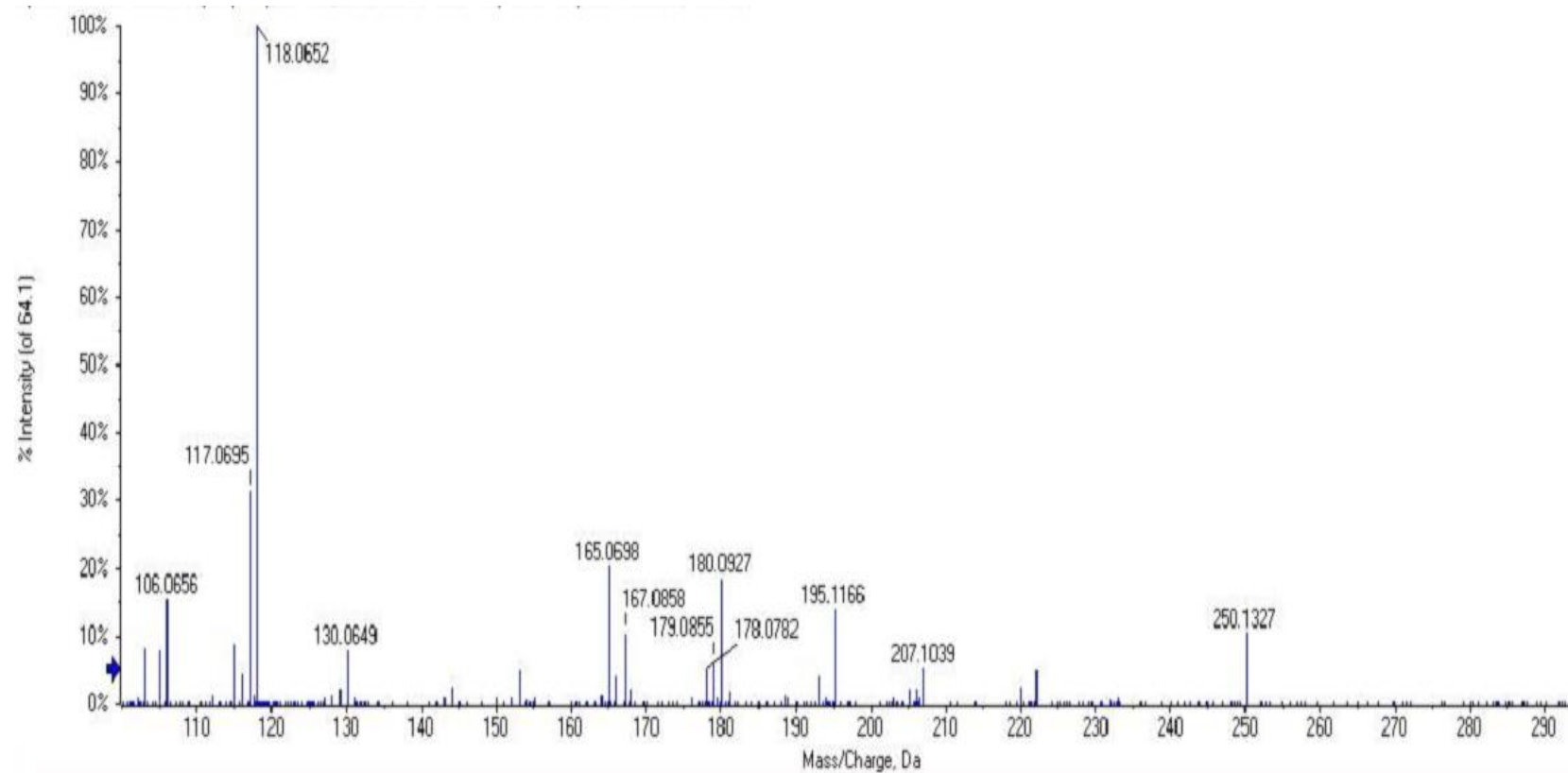
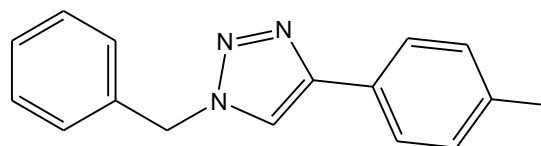


FA1097  
13C NMR  
FA 1097

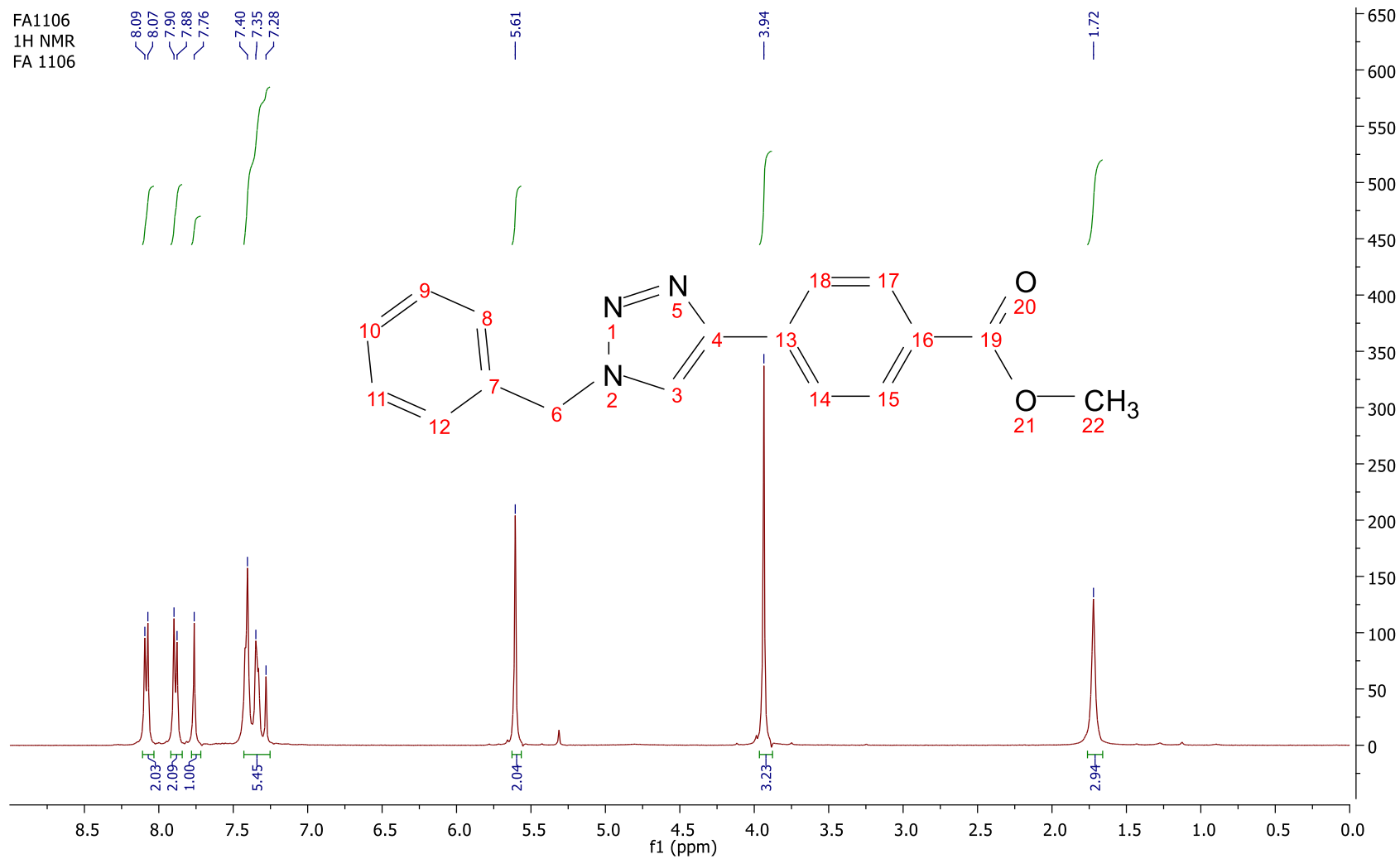


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Dept 135  
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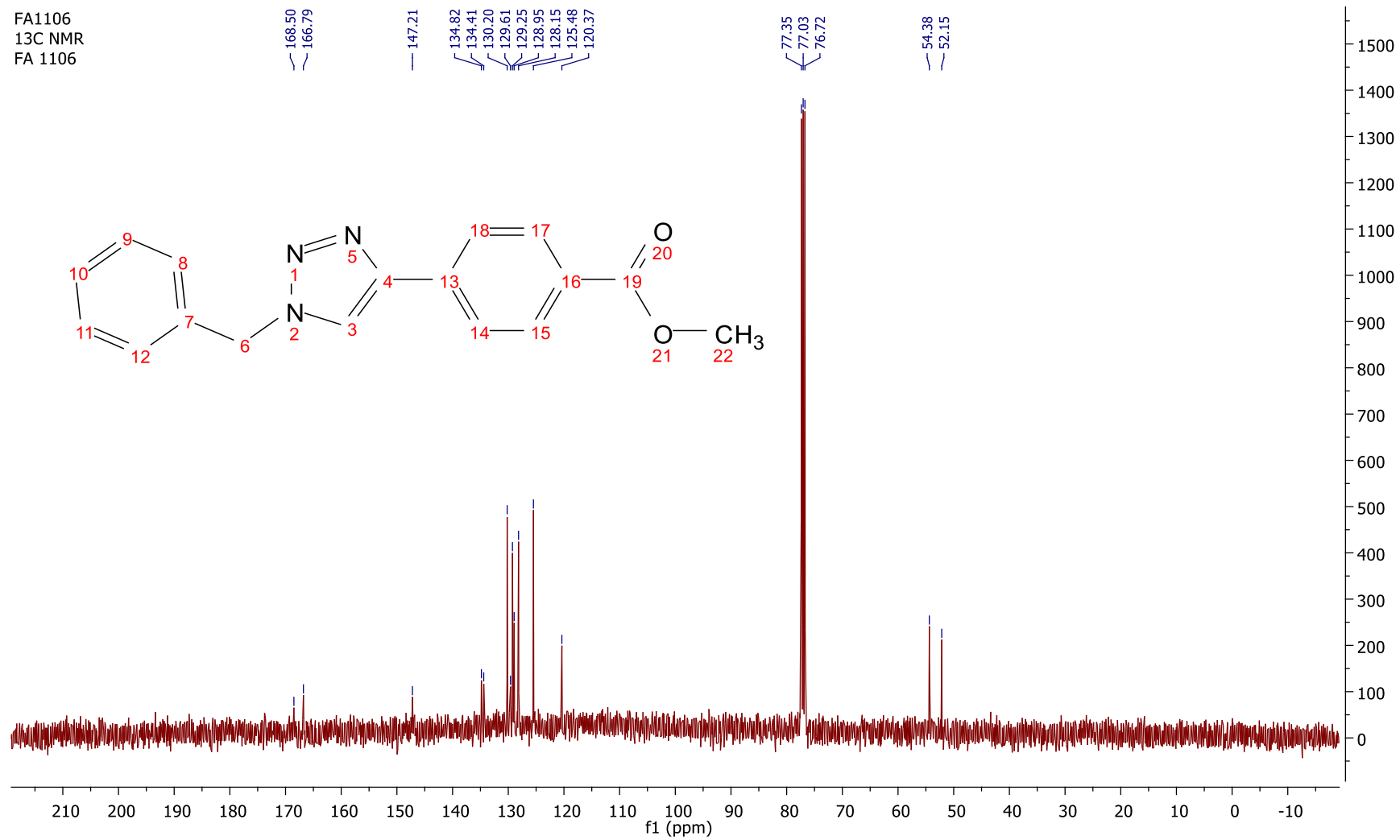


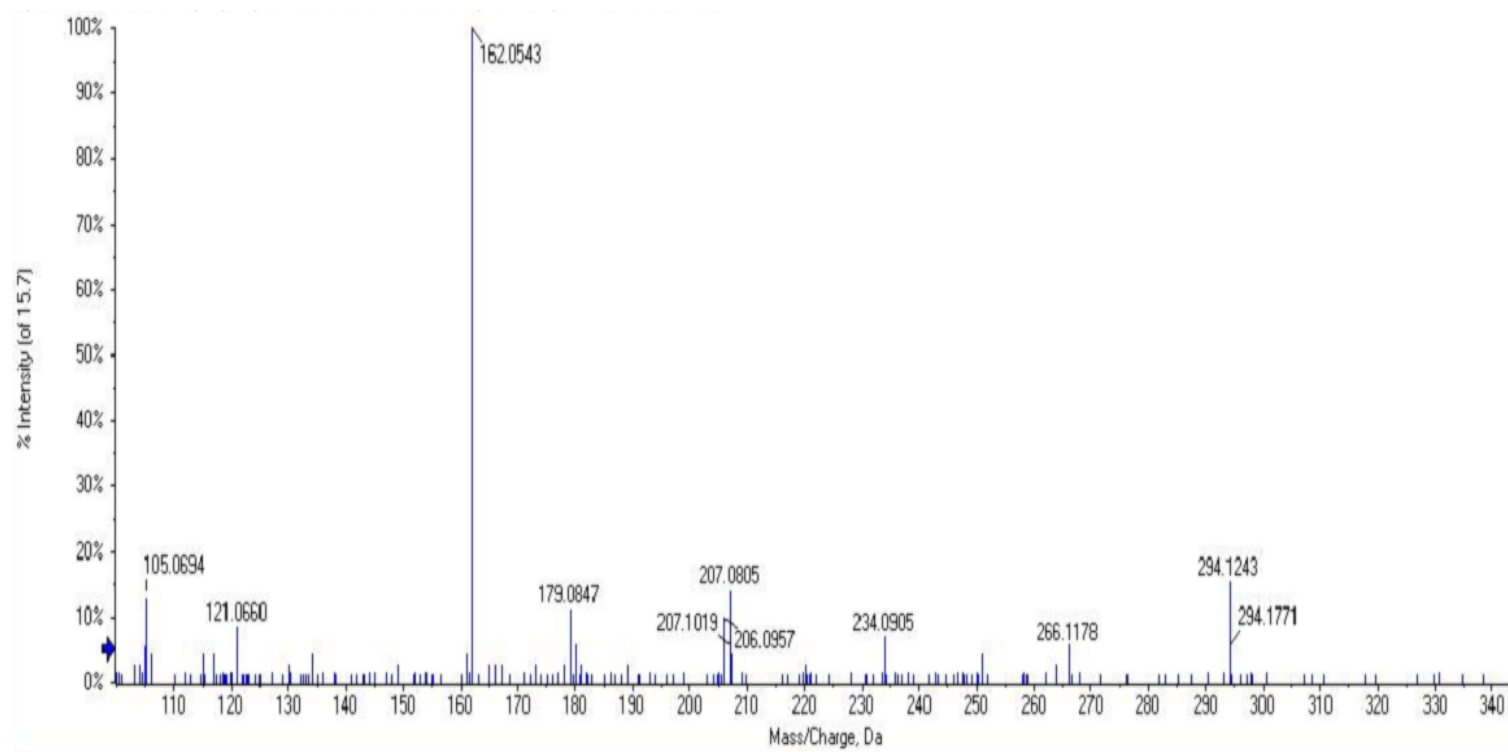
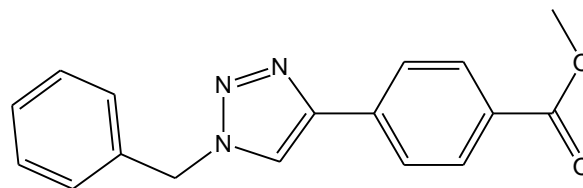


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1H NMR  
FA 1106



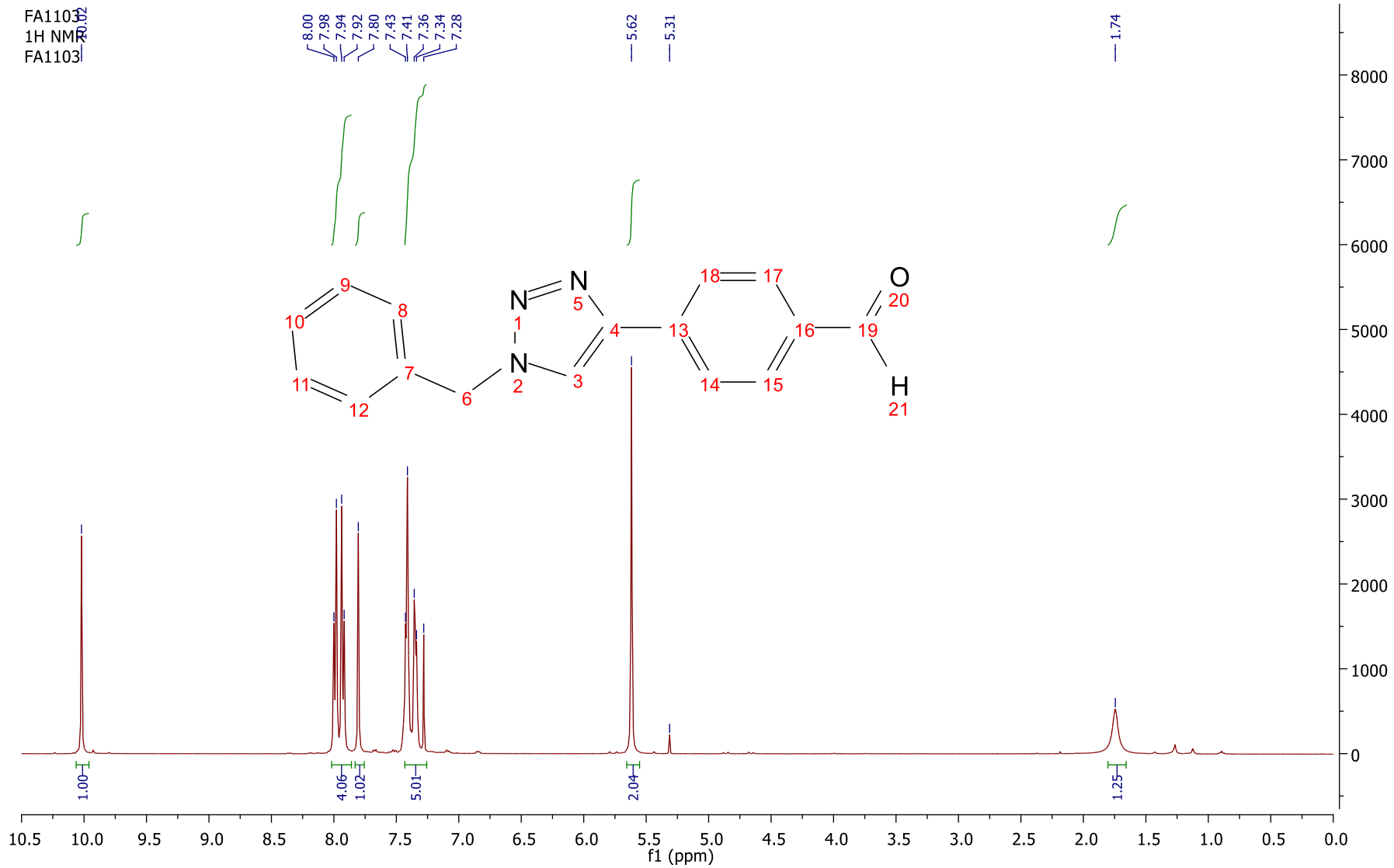
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13C NMR  
FA 1106



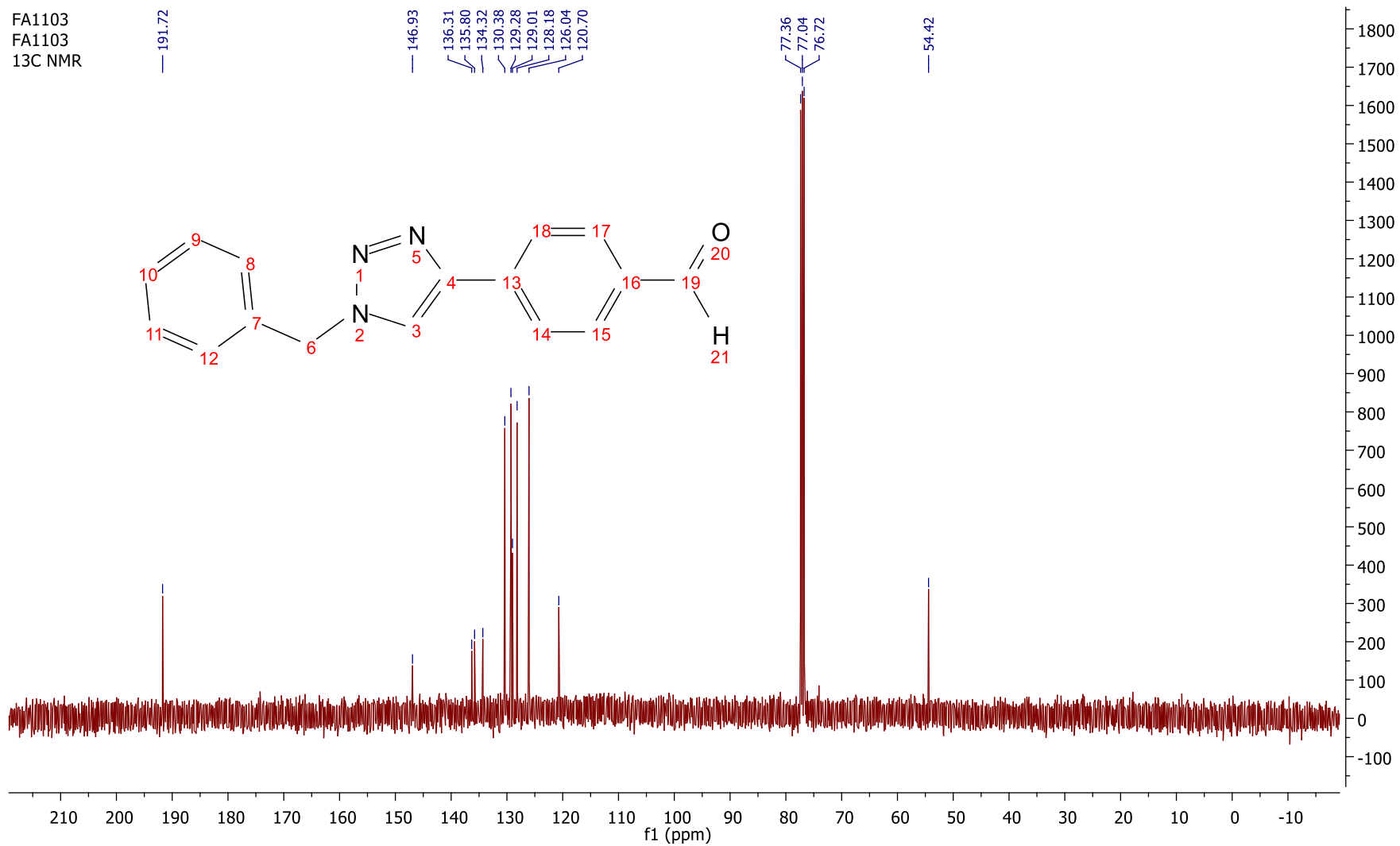




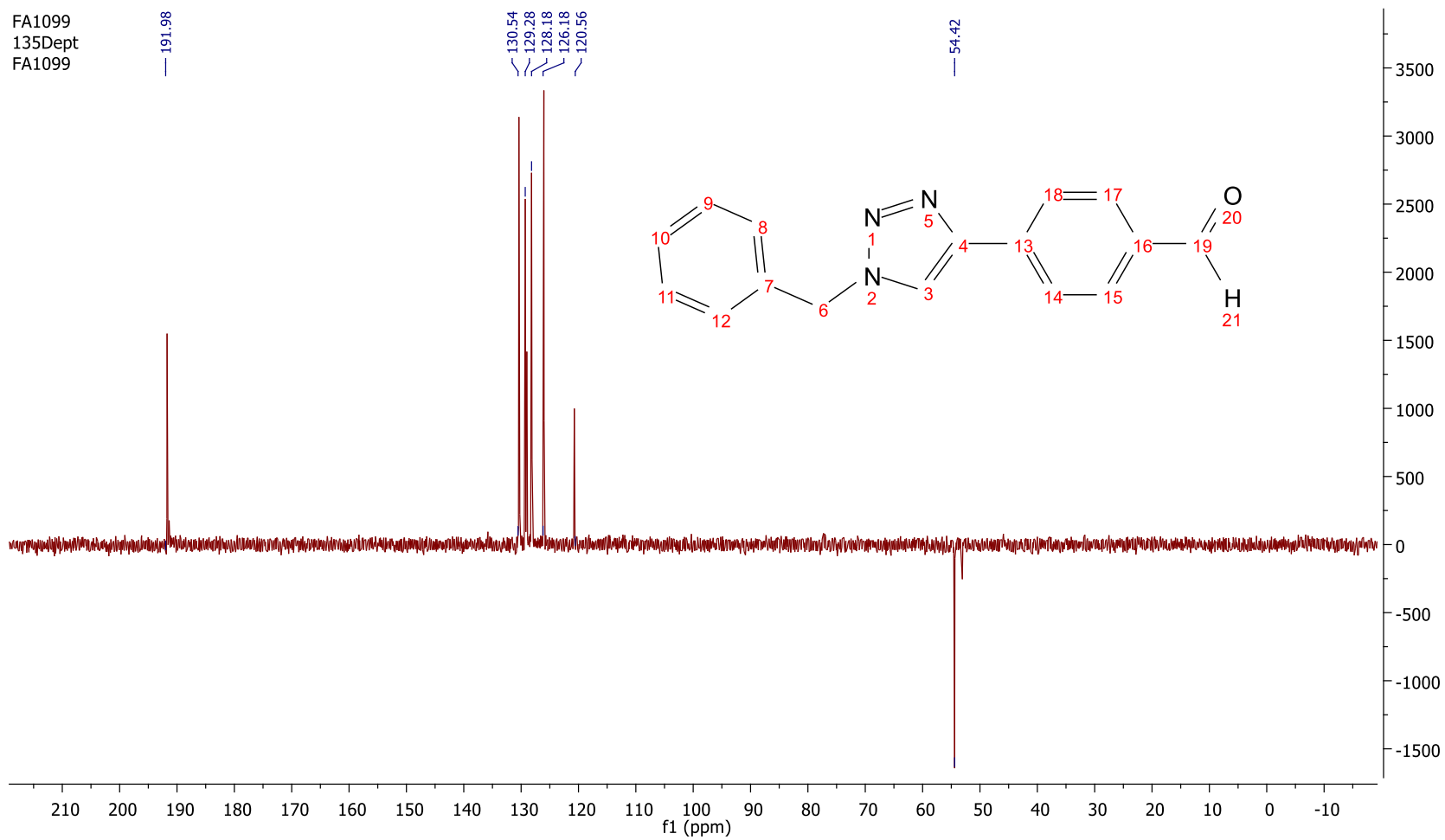
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1H NMR  
FA1103

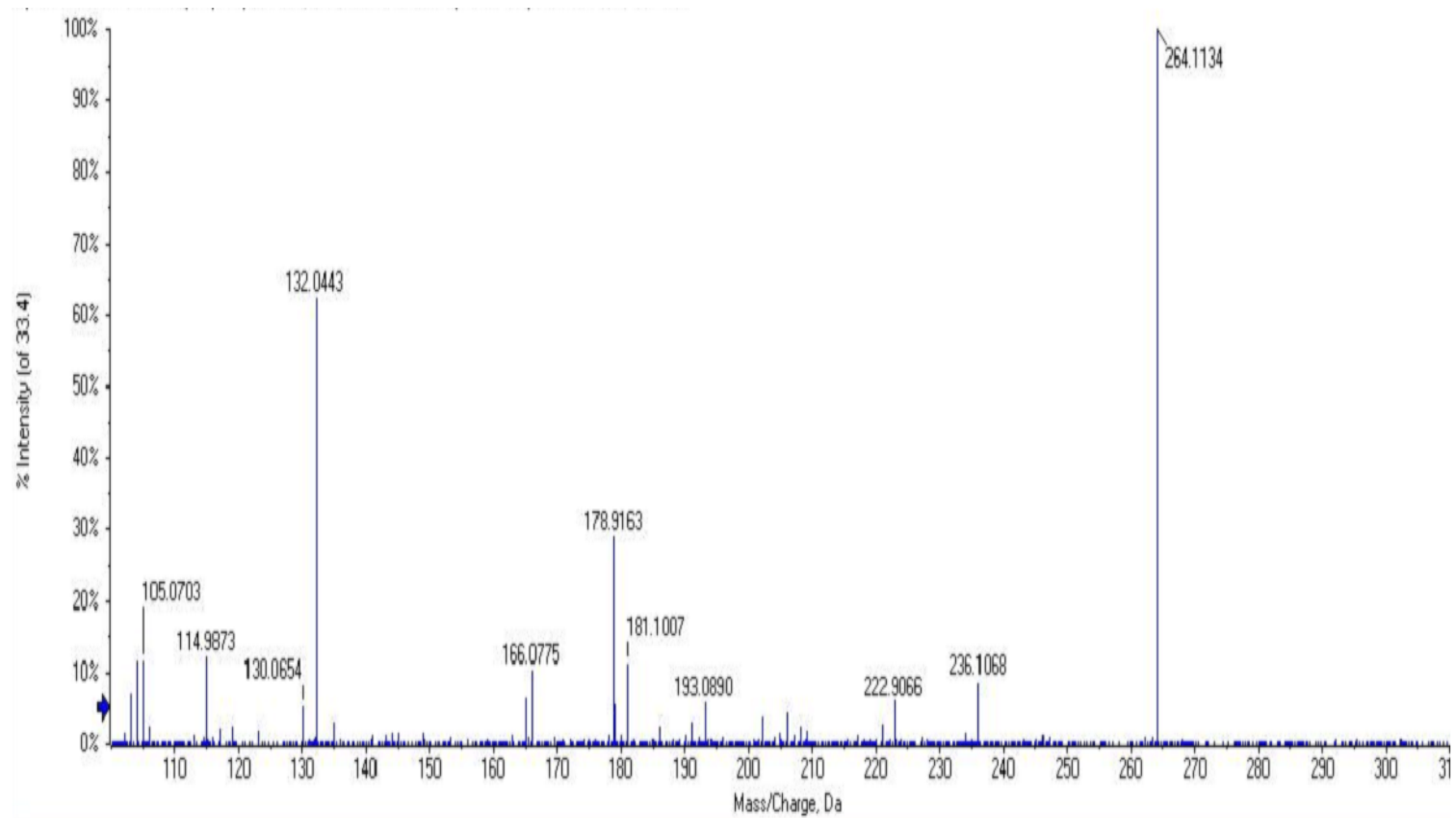
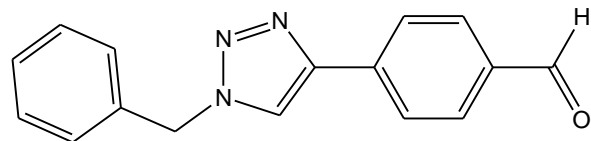


FA1103  
FA1103  
13C NMR



FA1099  
135Dept  
FA1099



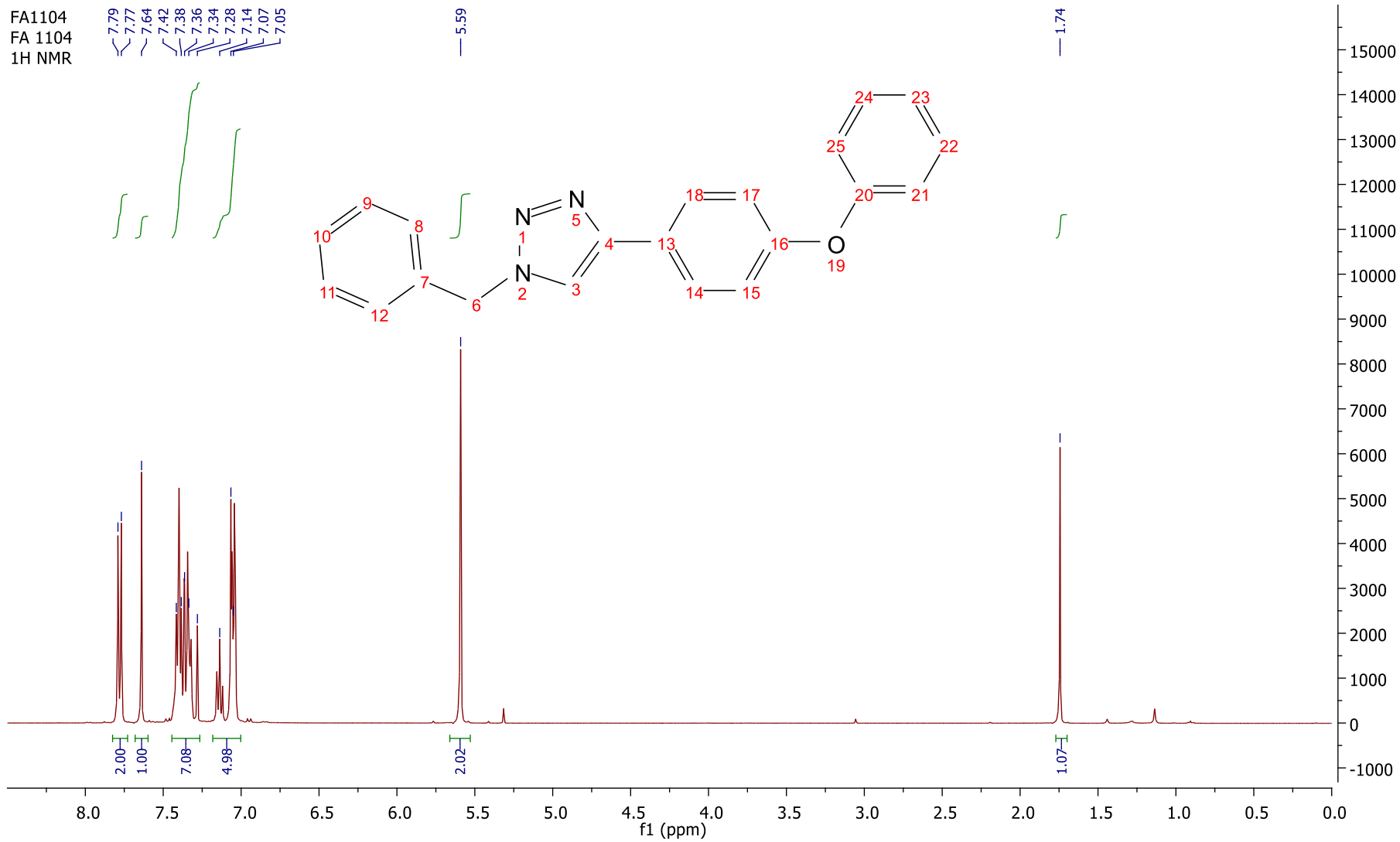


FA1104  
FA 1104  
1H NMR

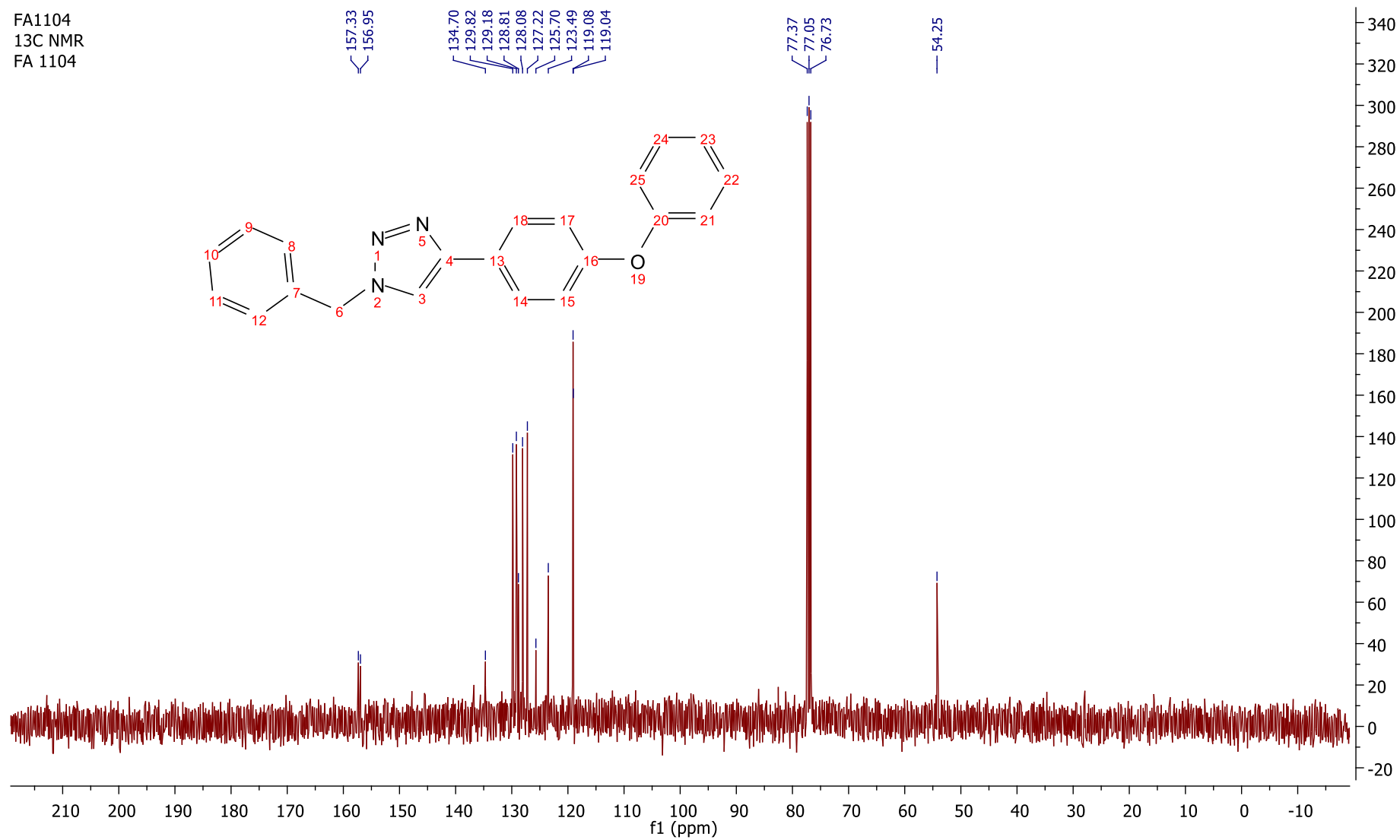
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7.38  
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7.34  
7.28  
7.14  
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7.05

5.59

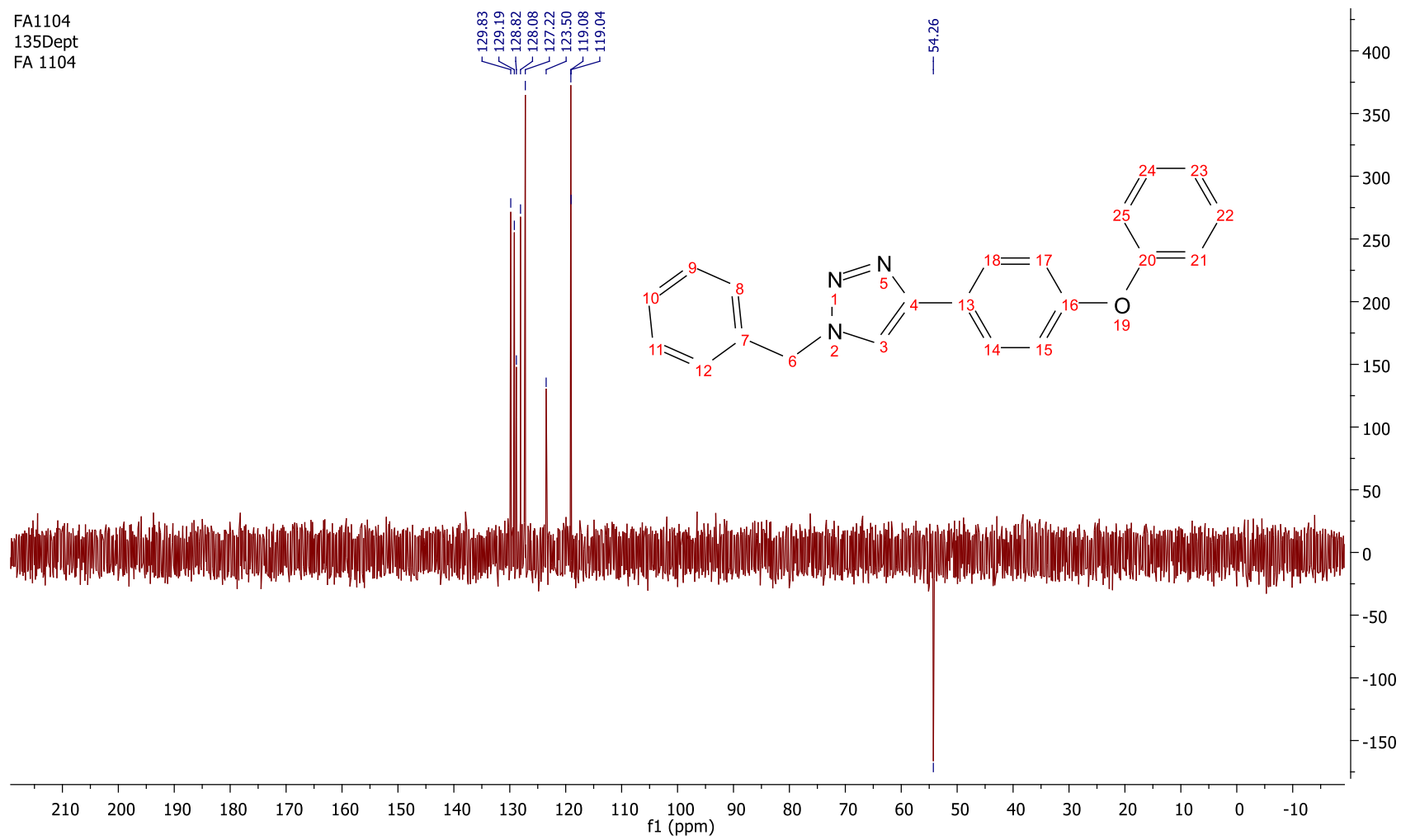
1.74

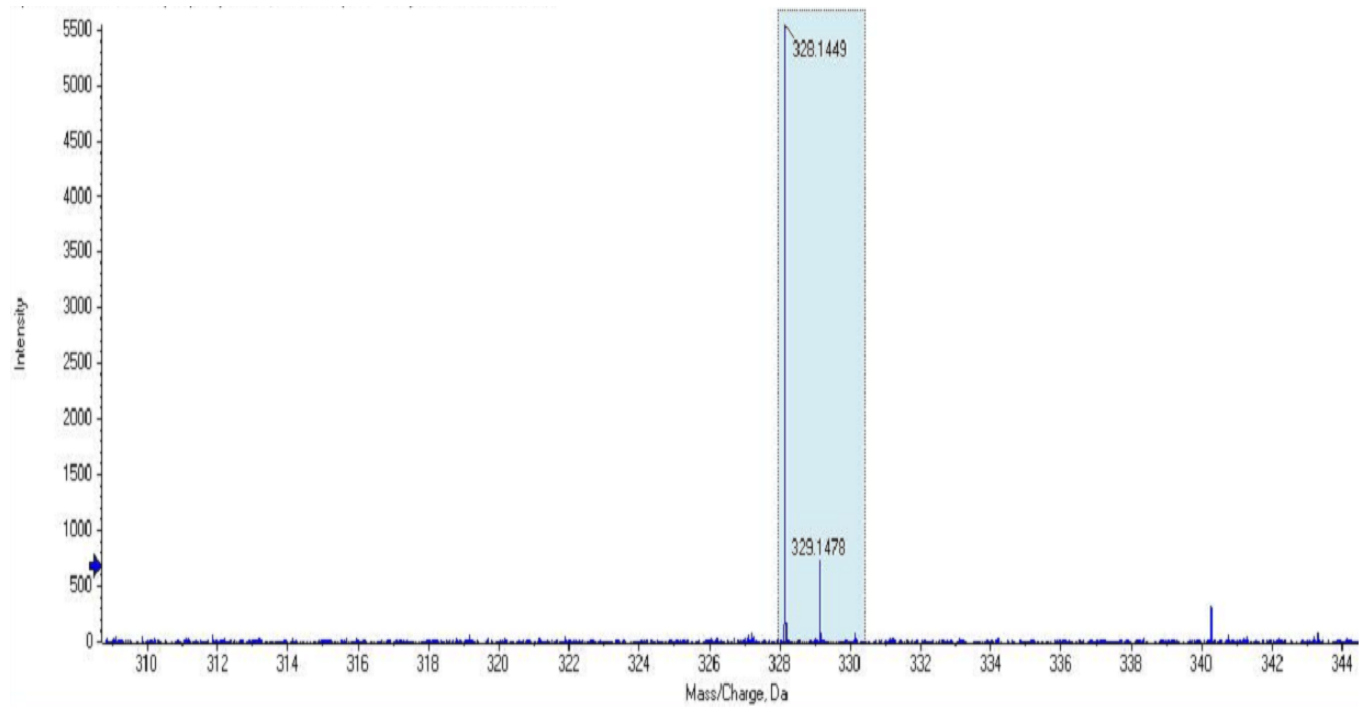
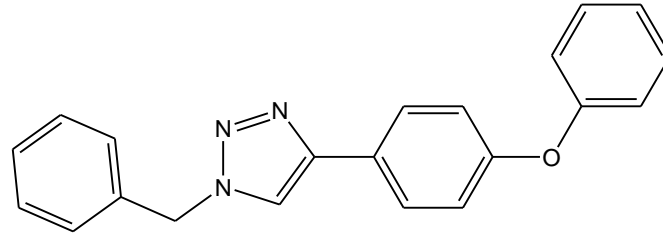


FA1104  
13C NMR  
FA 1104



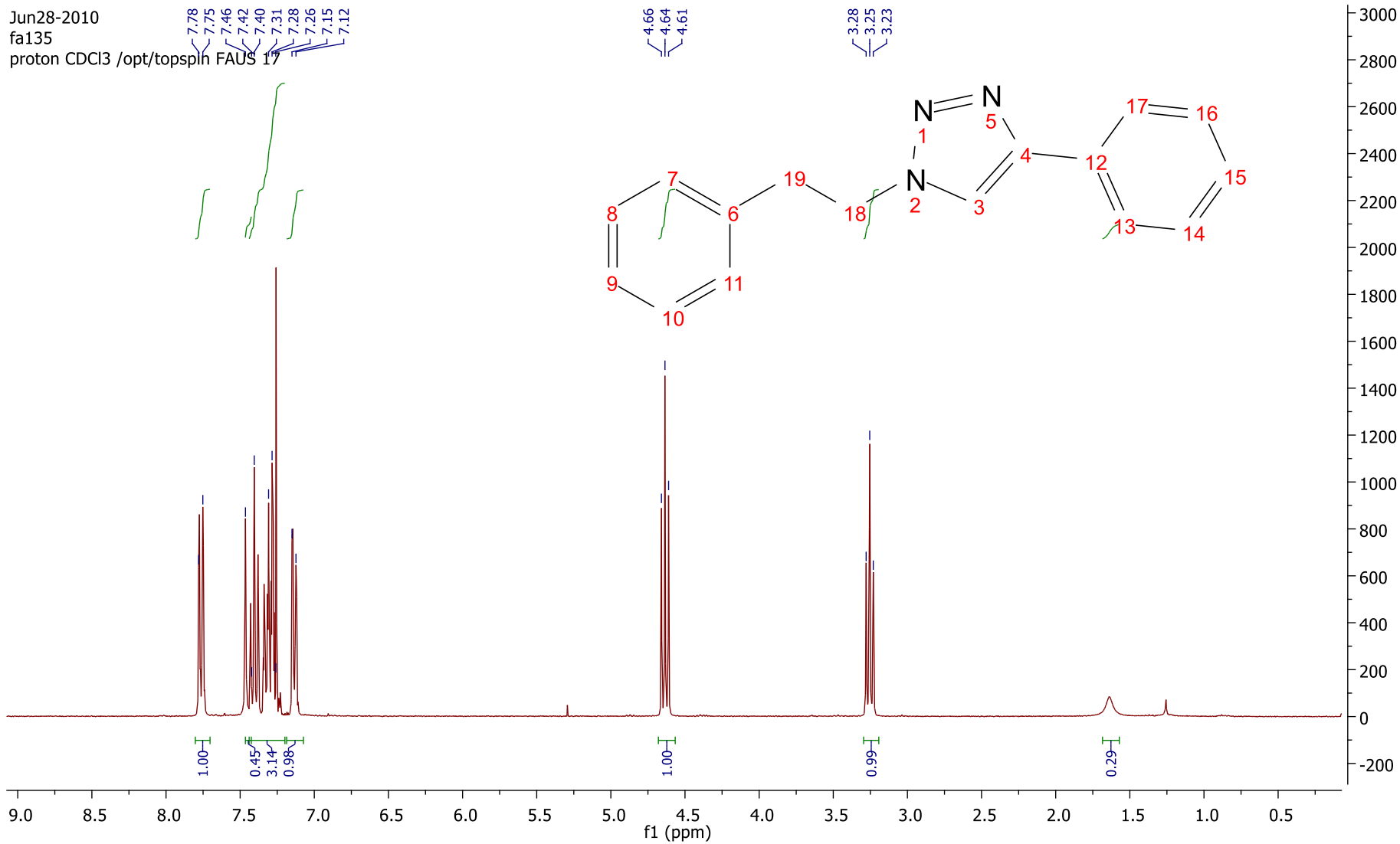
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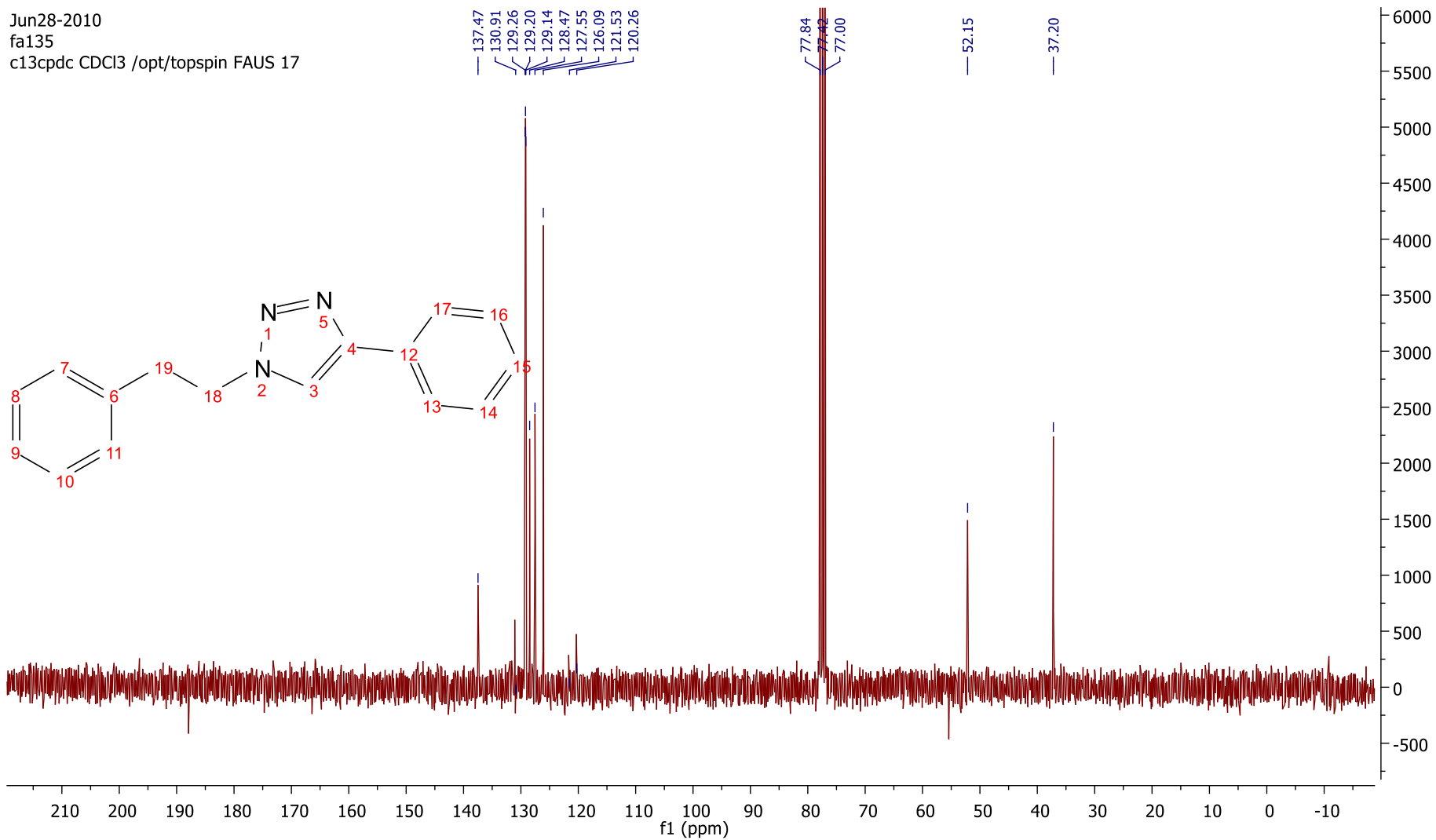




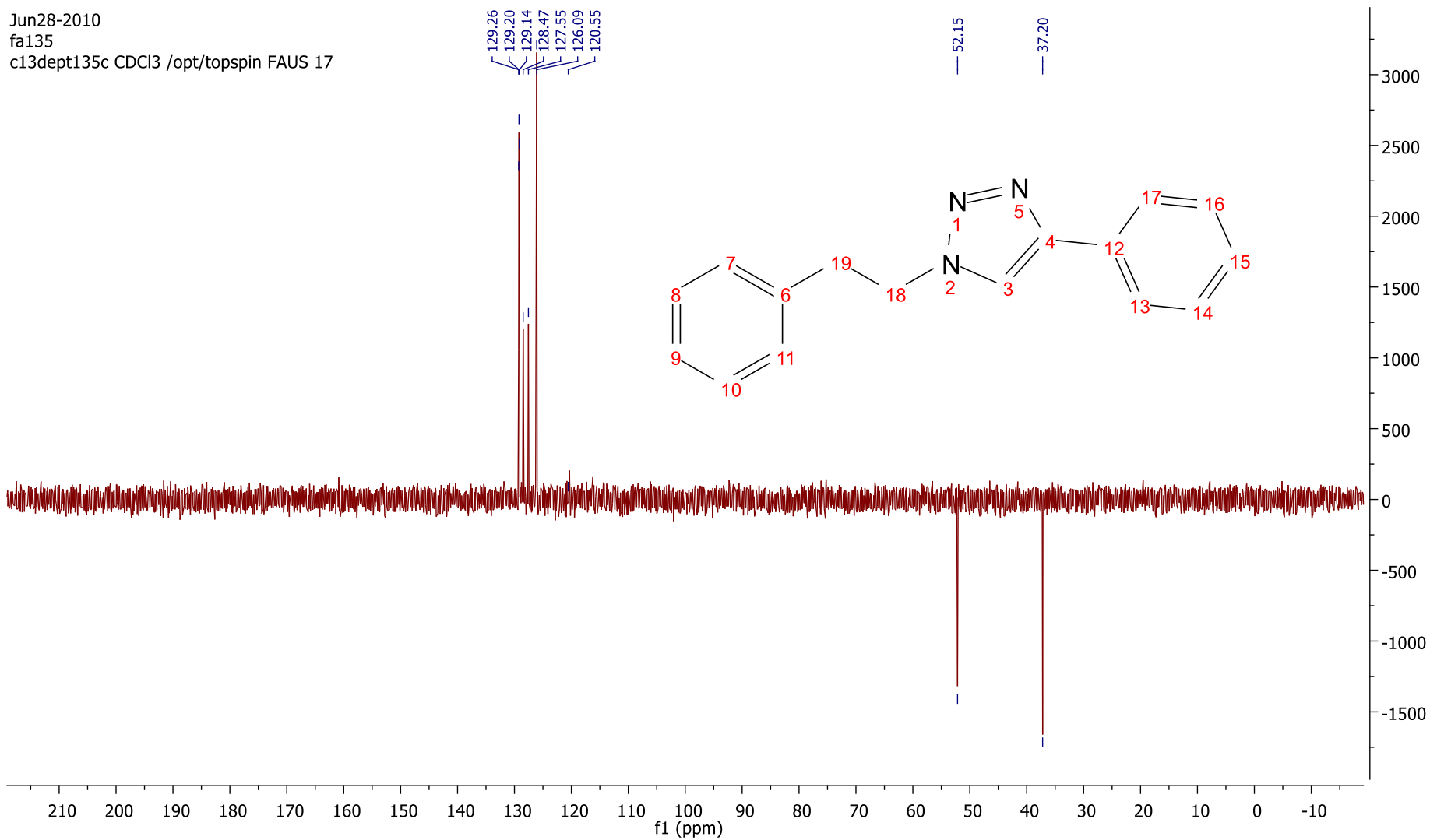
Jun28-2010  
fa135  
proton CDCl3 /opt/topsplh FAUS 17



Jun28-2010  
fa135  
c13cpdc CDCl3 /opt/topspin FAUS 17



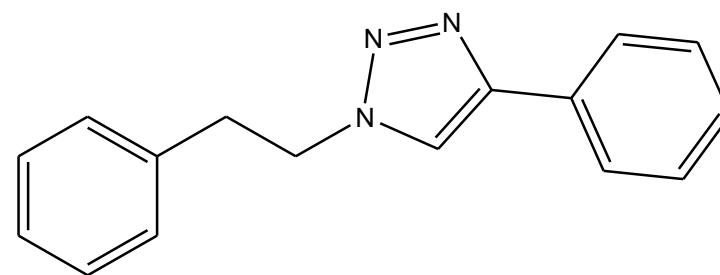
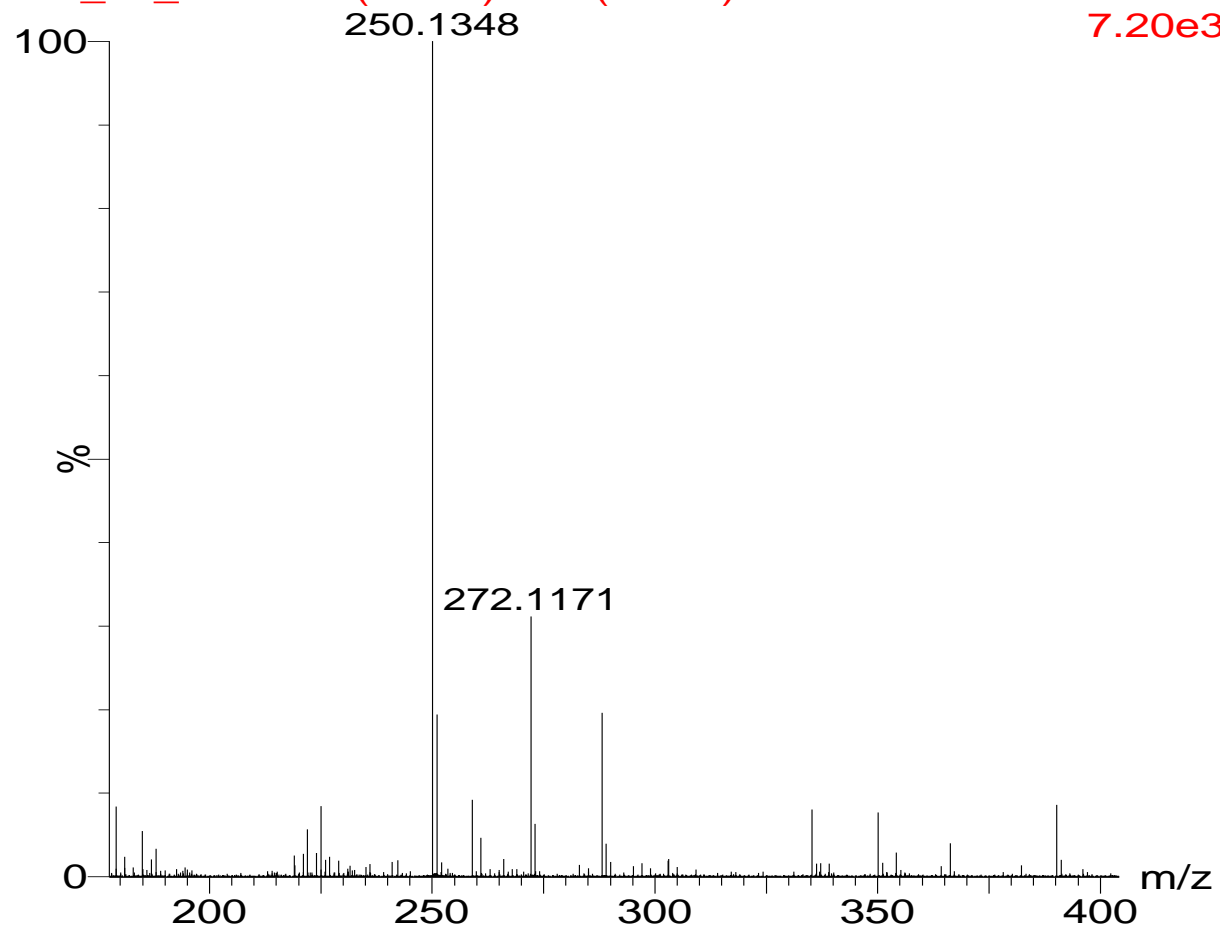
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c13dept135c CDCl3 /opt/topspin FAUS 17



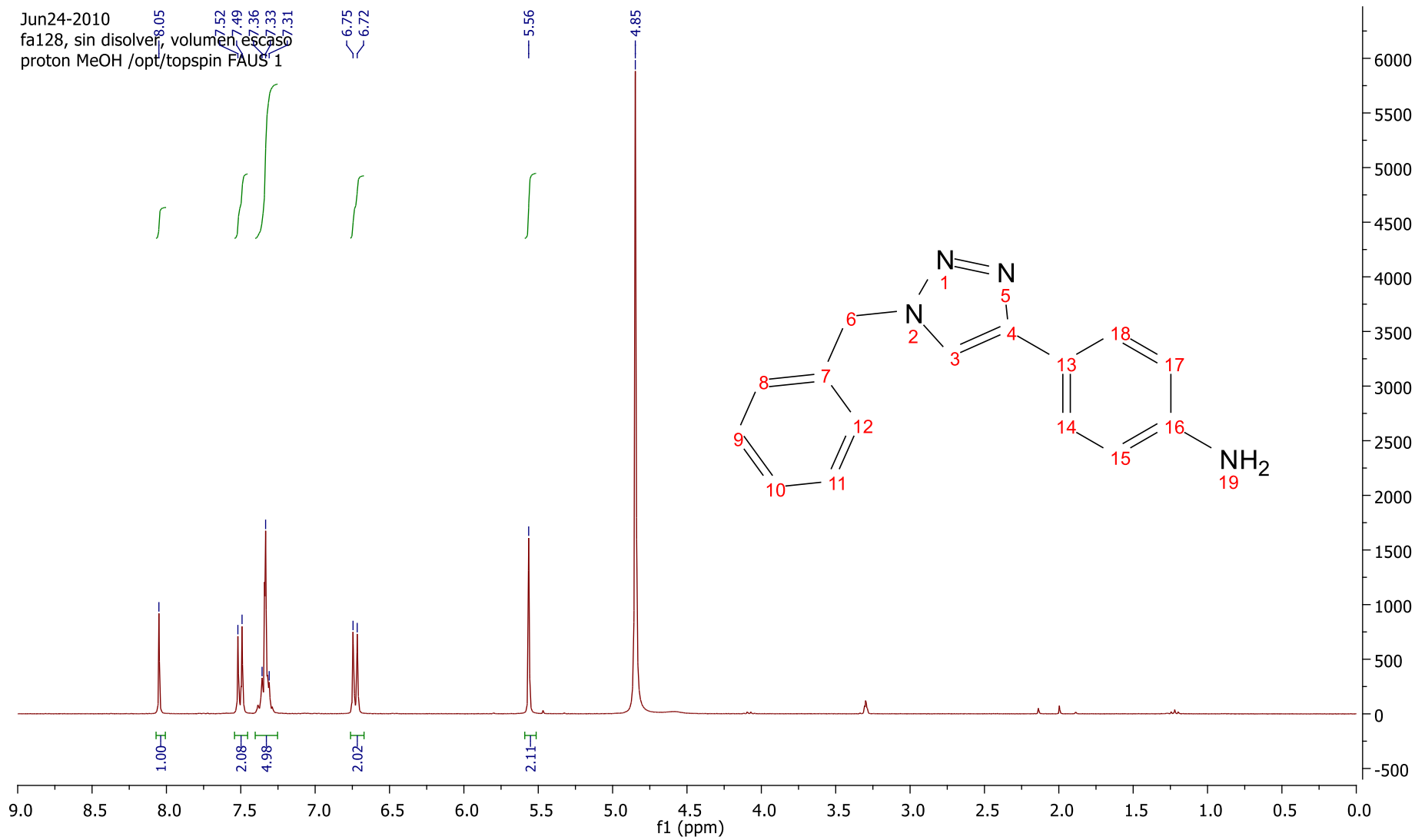
AB3

scic\_uv\_0661 78 (0.840) Cm (67:86)

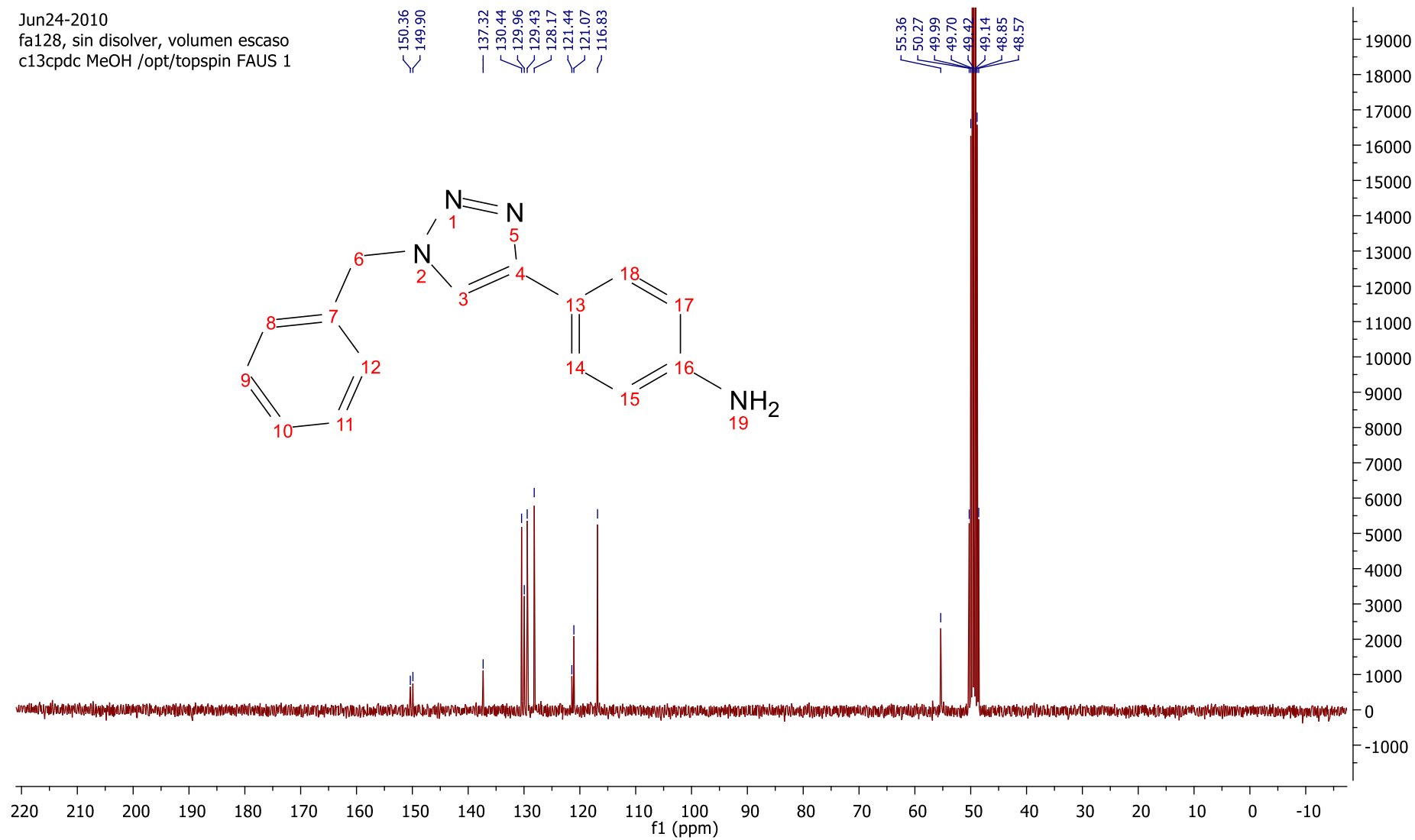
1: TOF MS ES+  
7.20e3



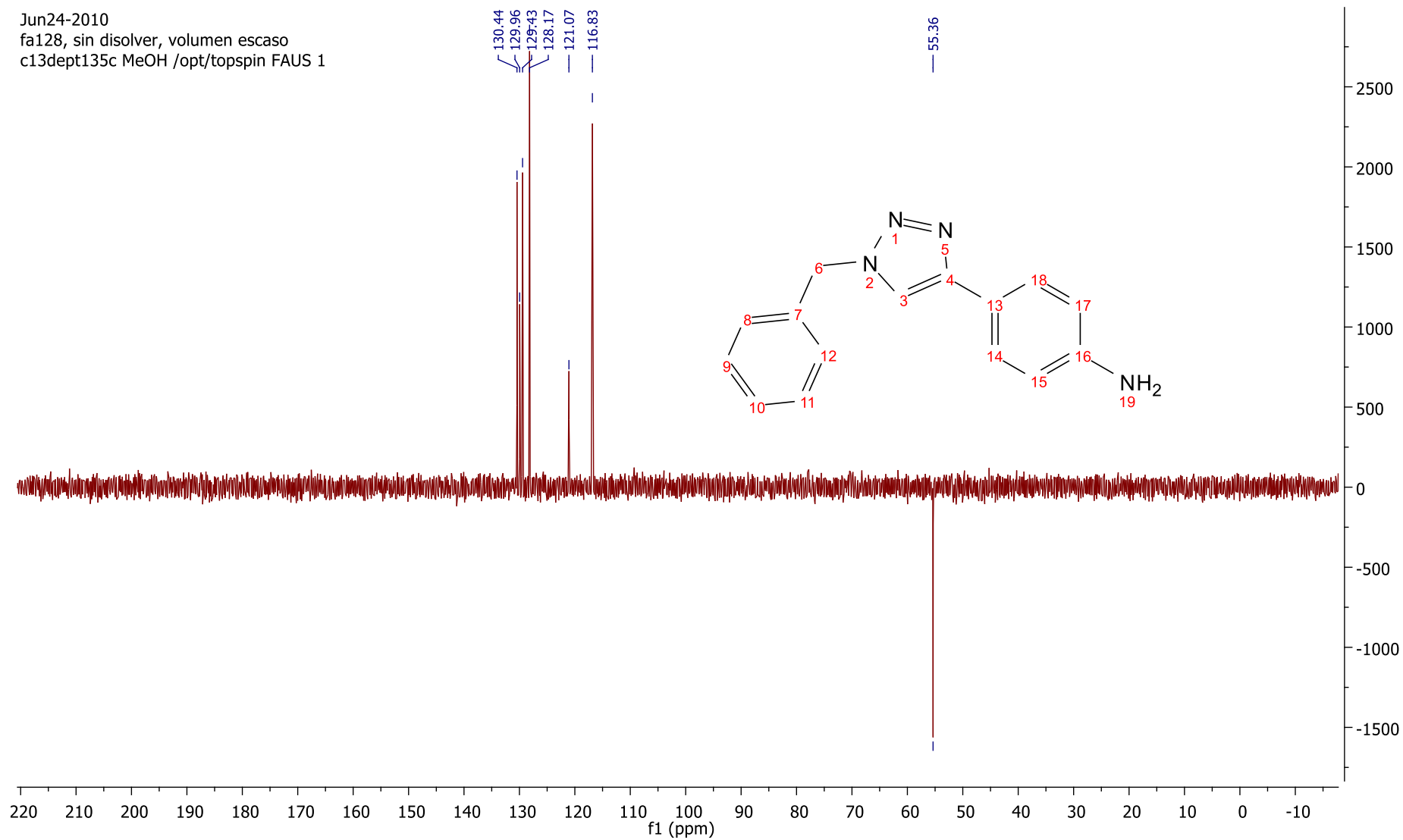
Jun24-2010  
fa128, sin disolver, volumen escaso  
proton MeOH /opt/topspin FAUS 1



Jun24-2010  
fa128, sin disolver, volumen escaso  
c13cpdc MeOH /opt/topspin FAUS 1



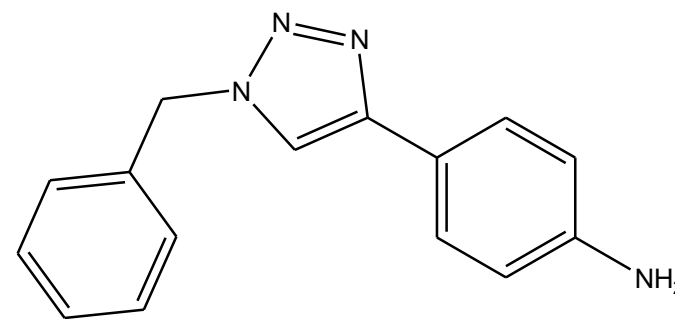
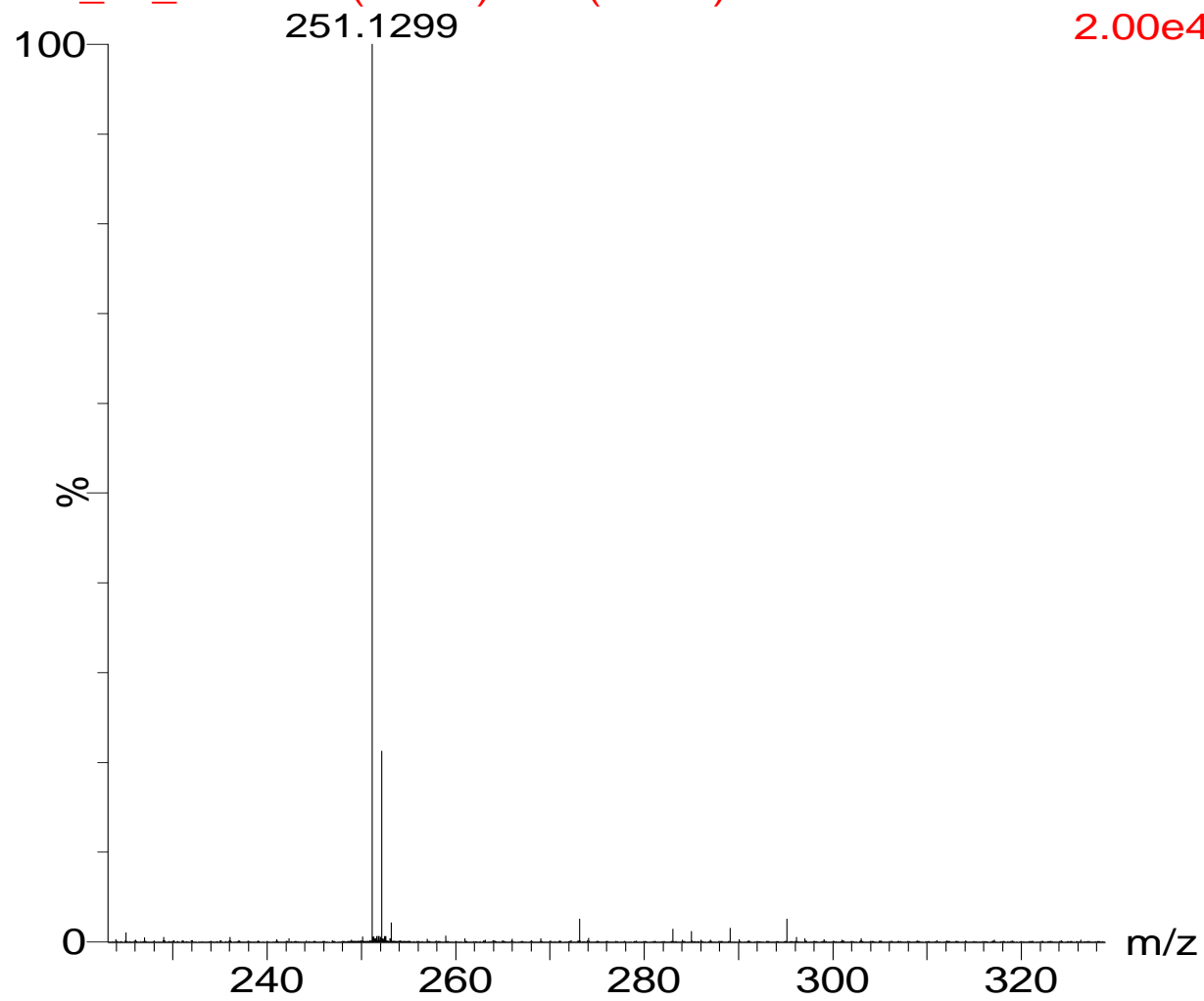
Jun24-2010  
fa128, sin disolver, volumen escaso  
c13dept135c MeOH /opt/topspin FAUS 1



AB4

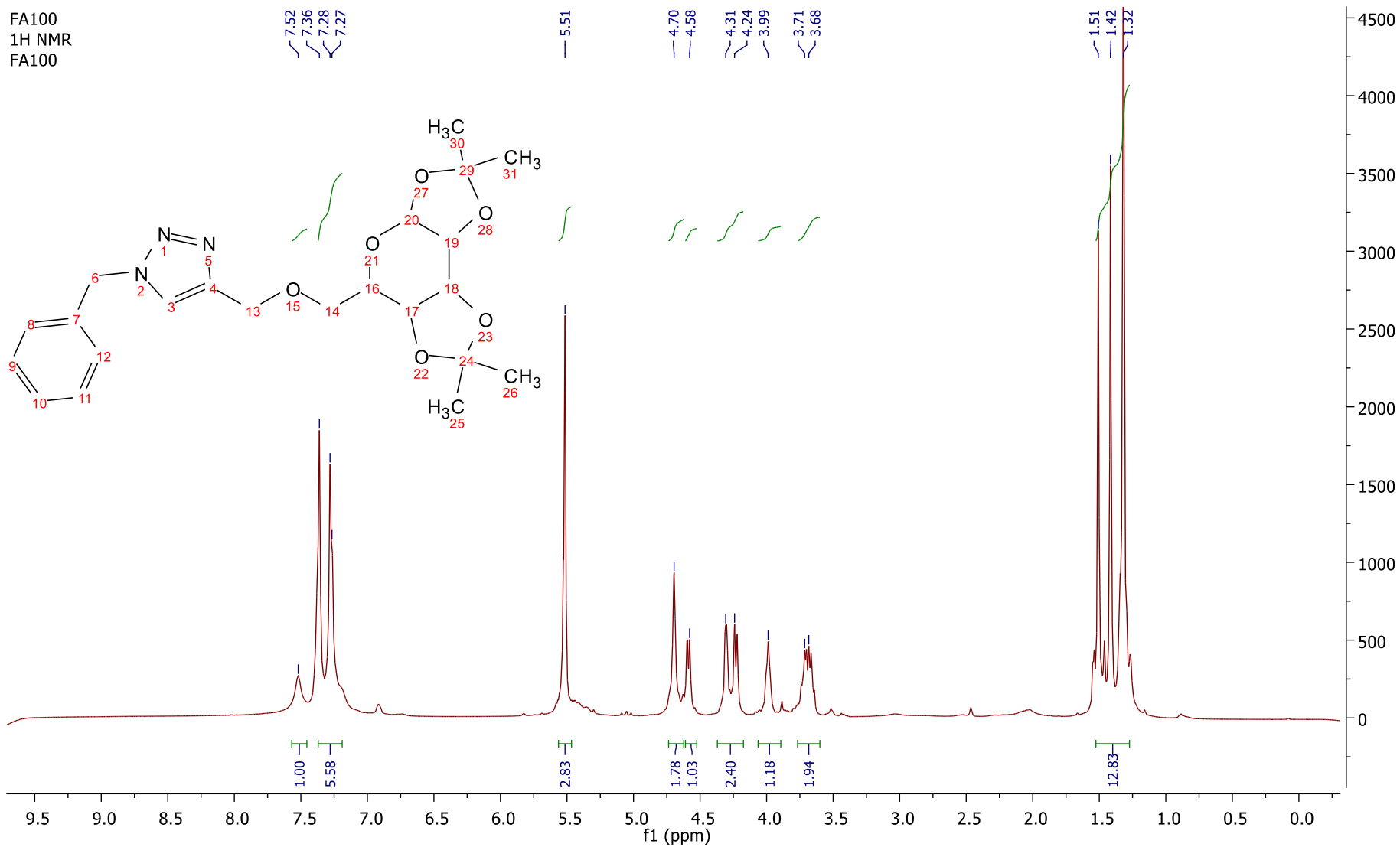
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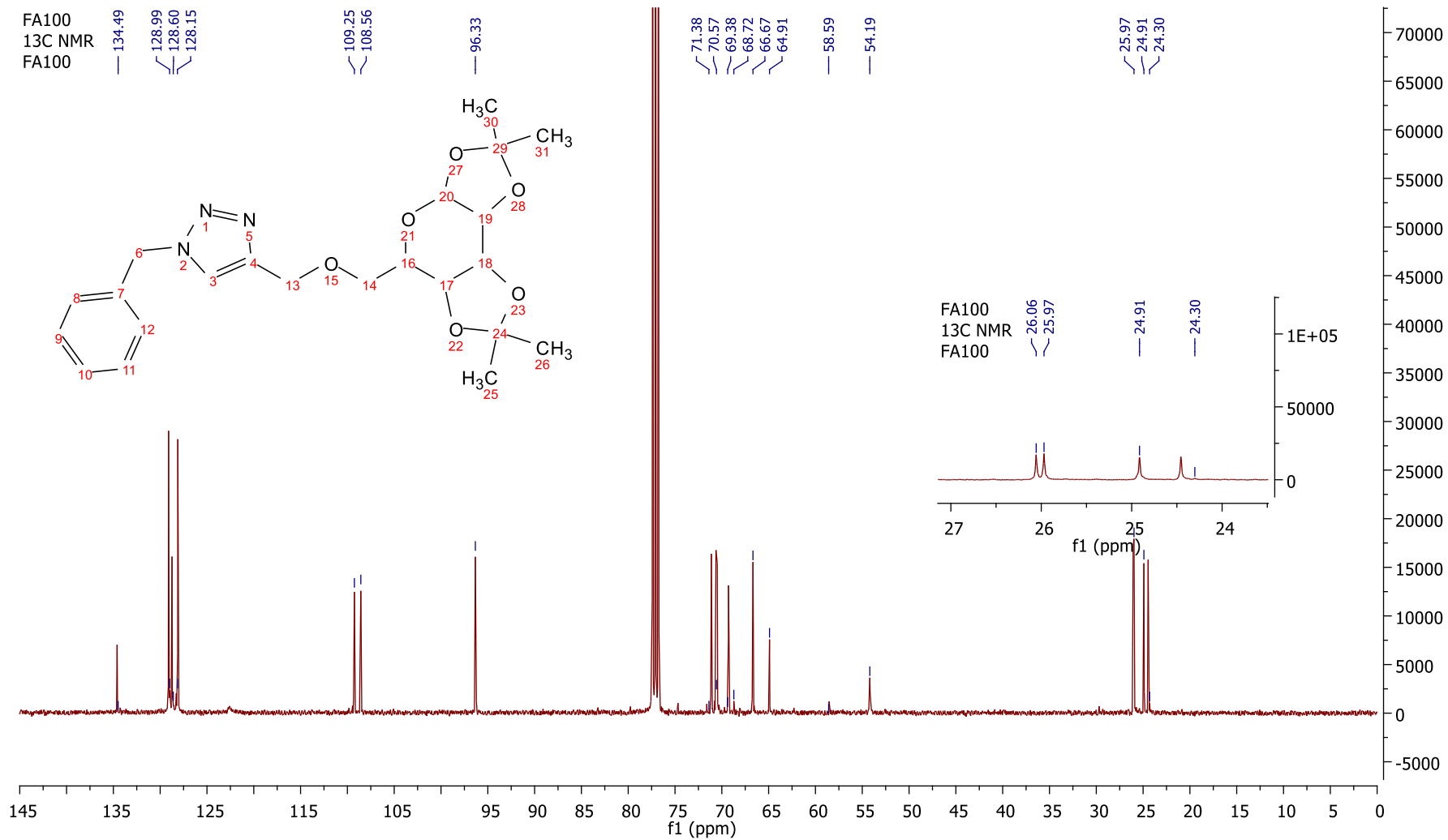
1: TOF MS ES+  
2.00e4

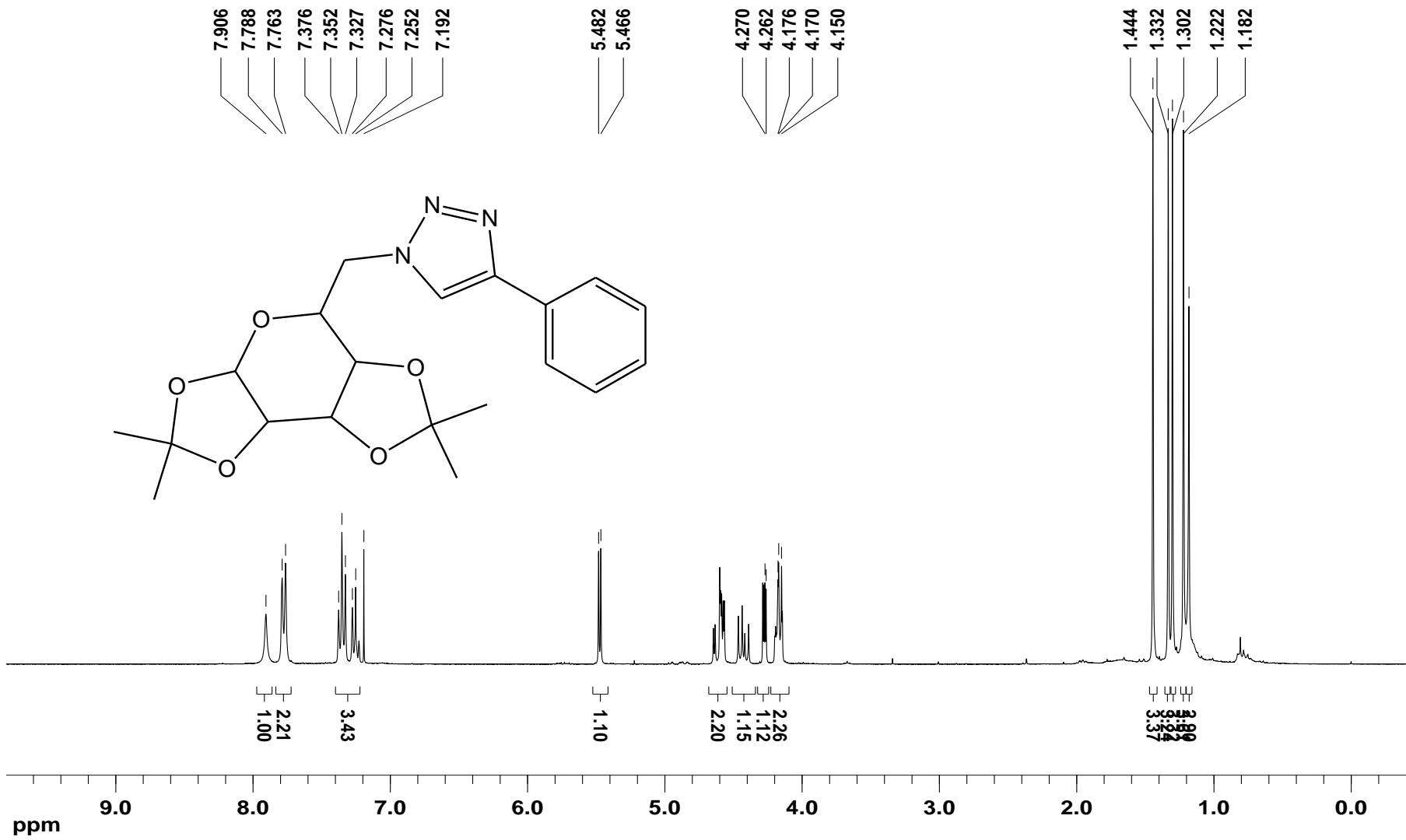


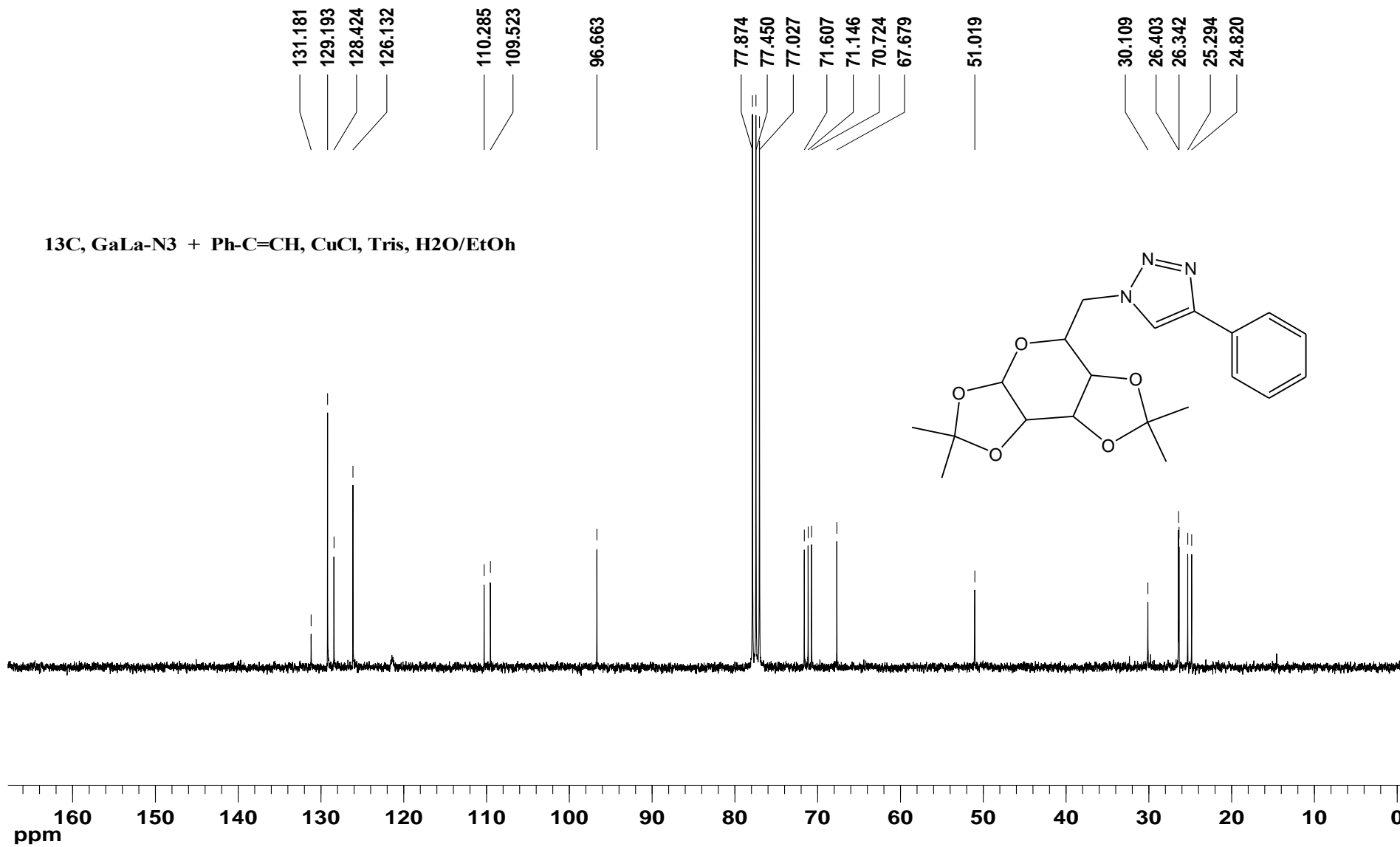


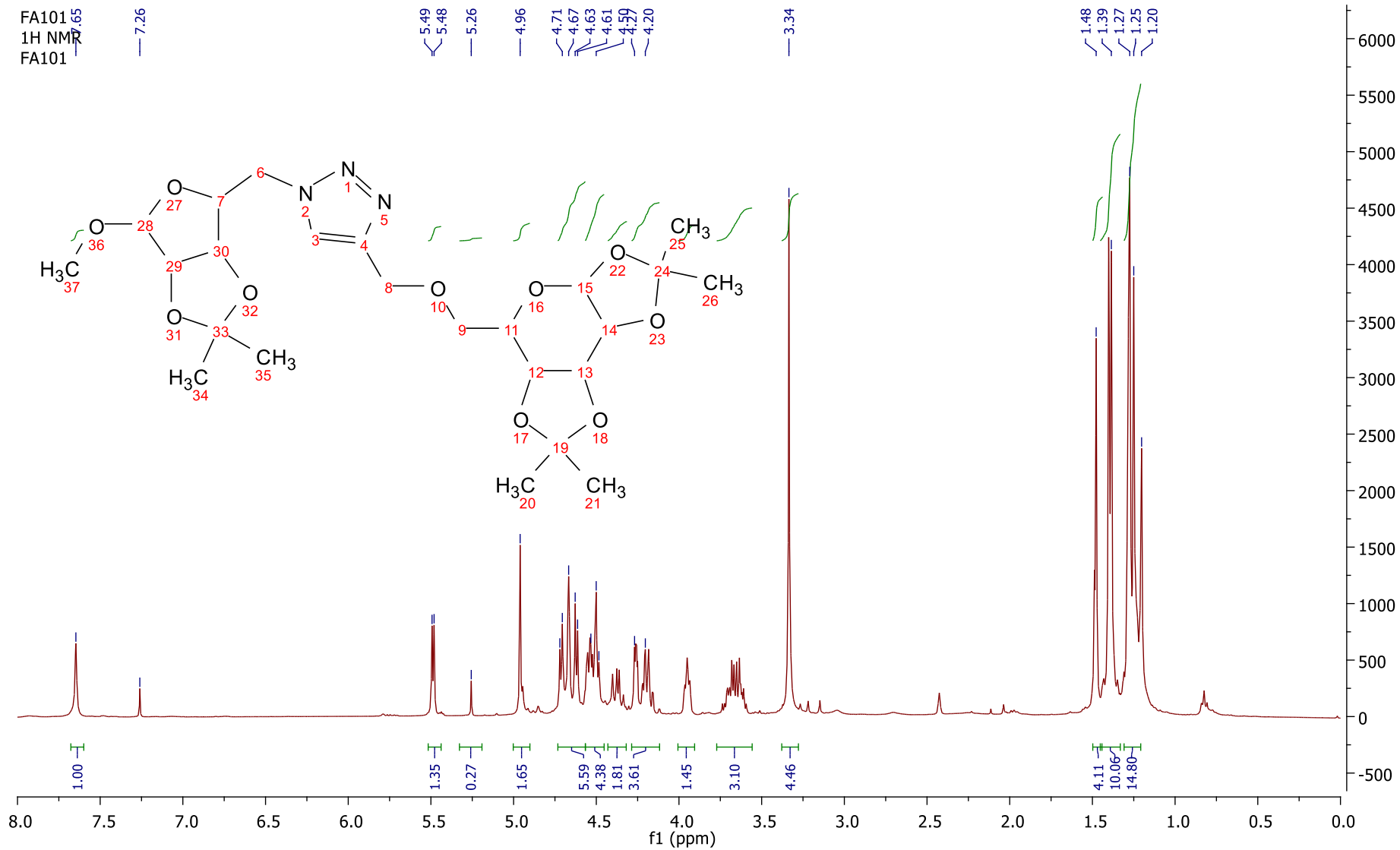
FA100  
1H NMR  
FA100



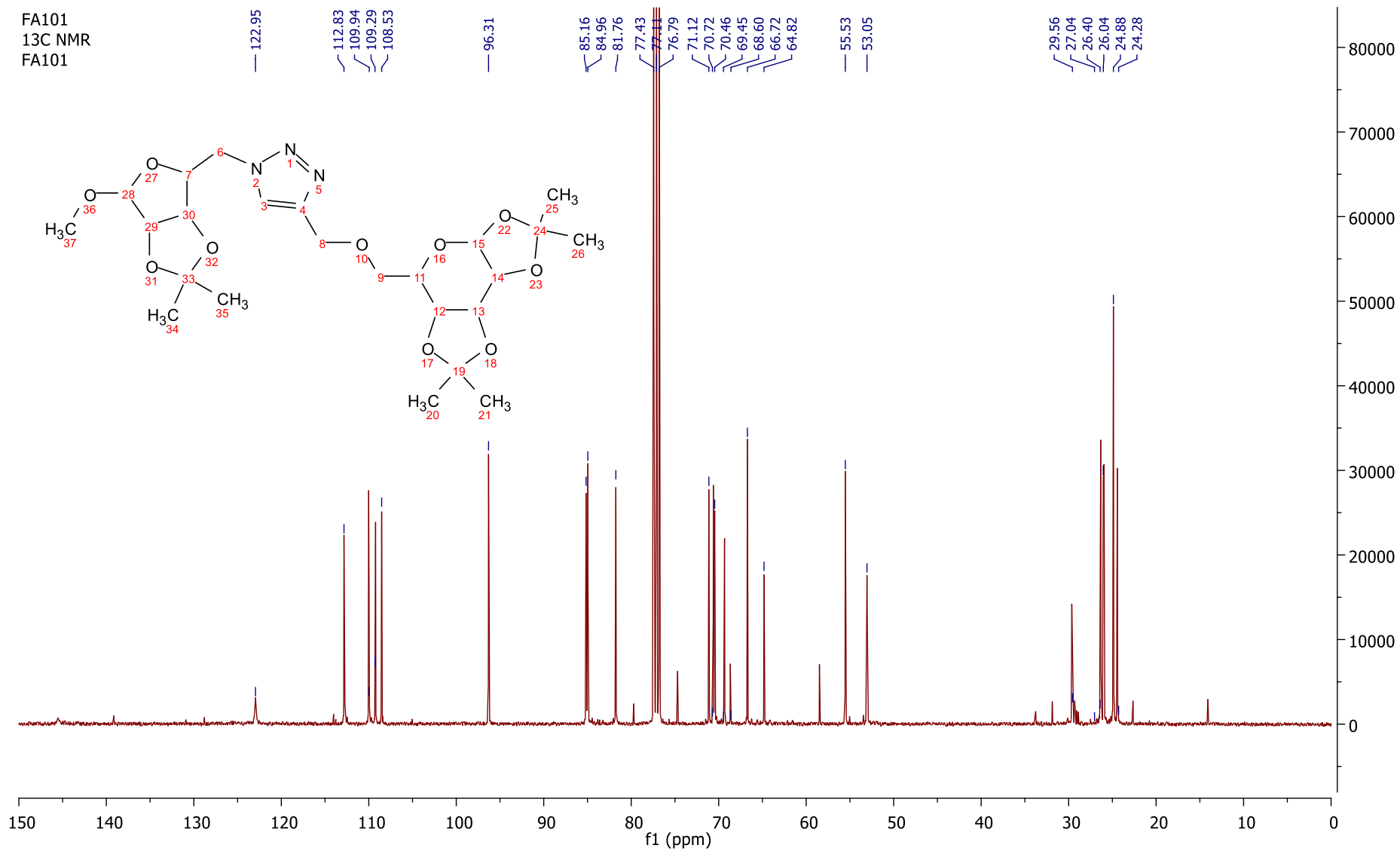


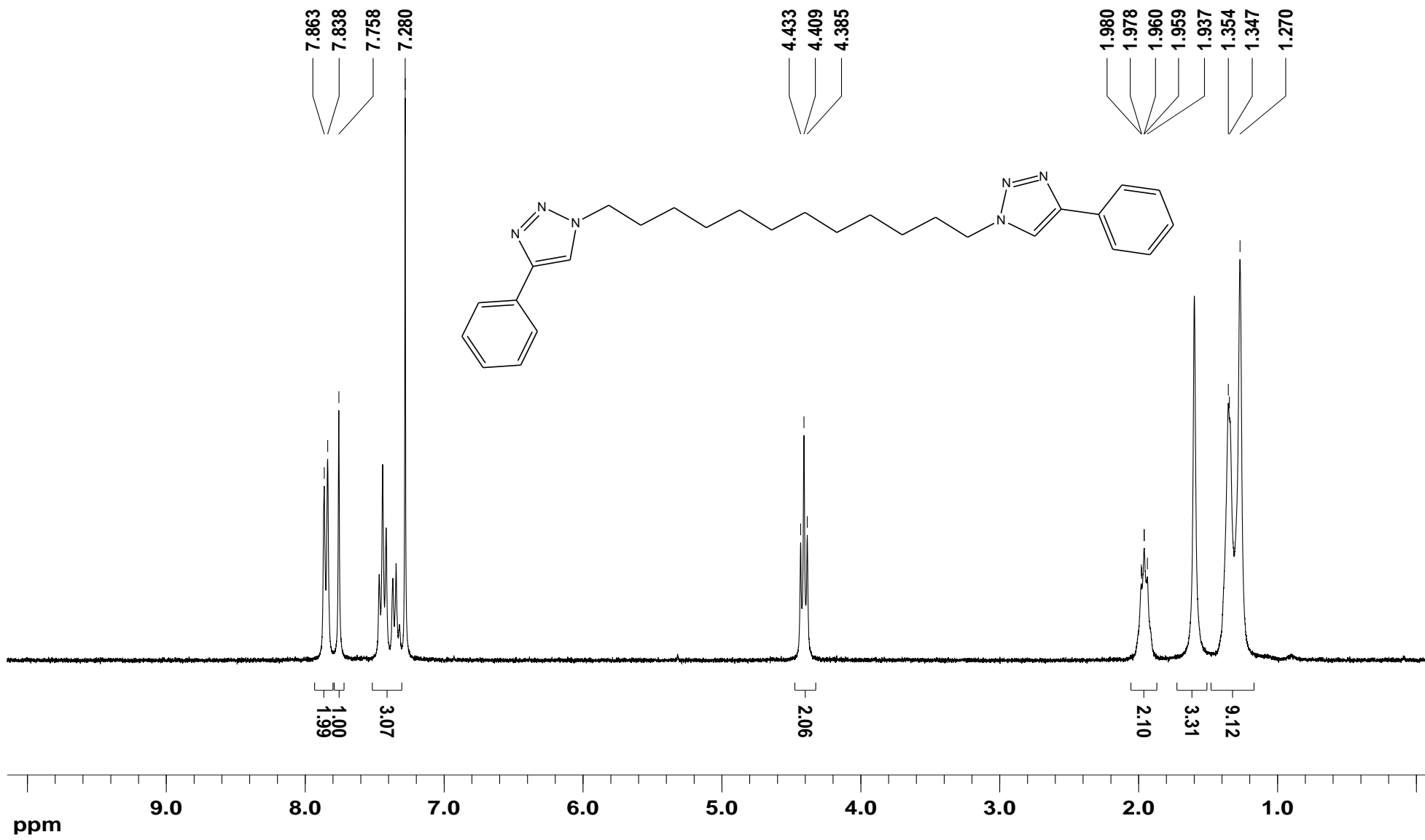


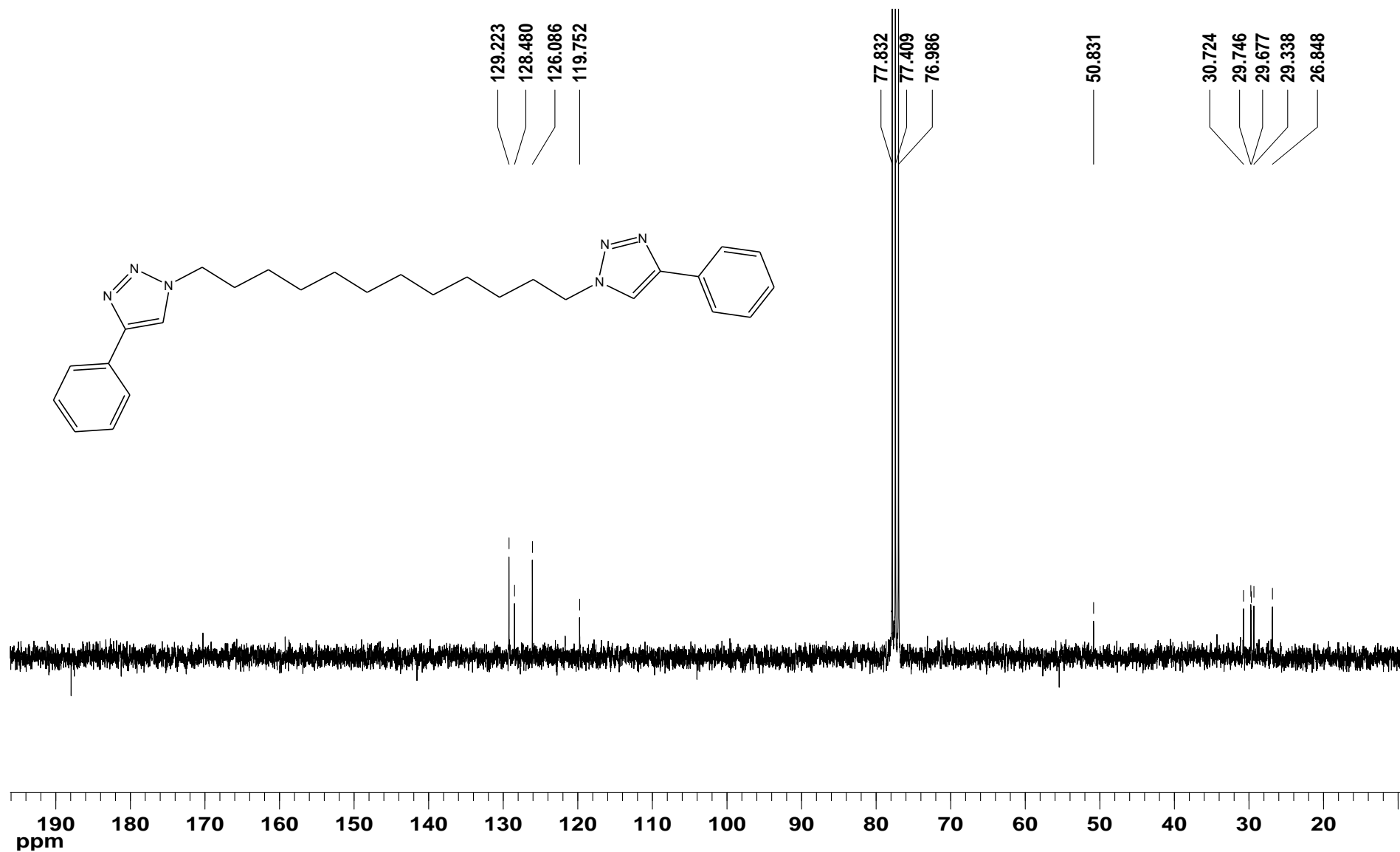
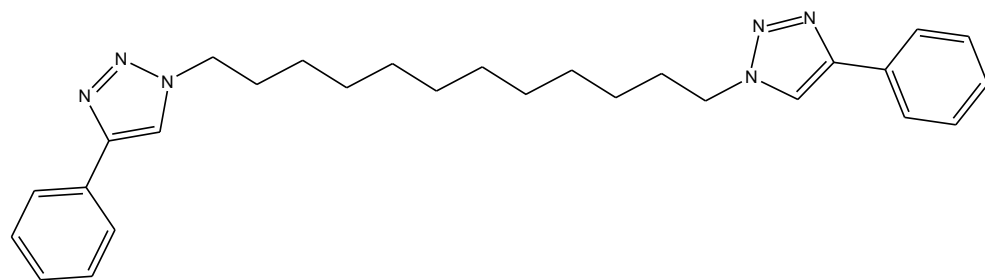




FA101  
13C NMR  
FA101





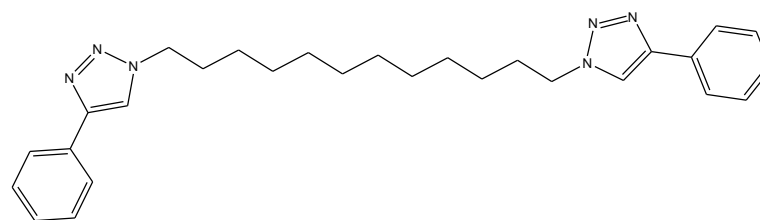
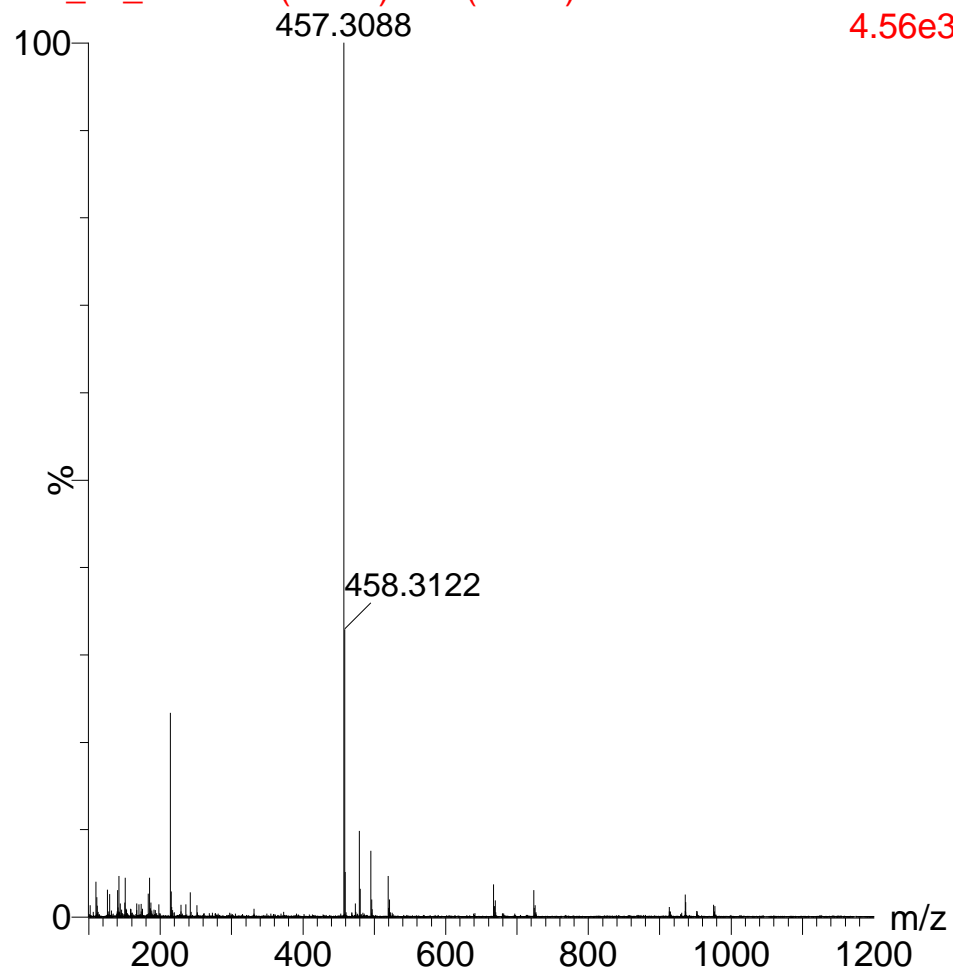


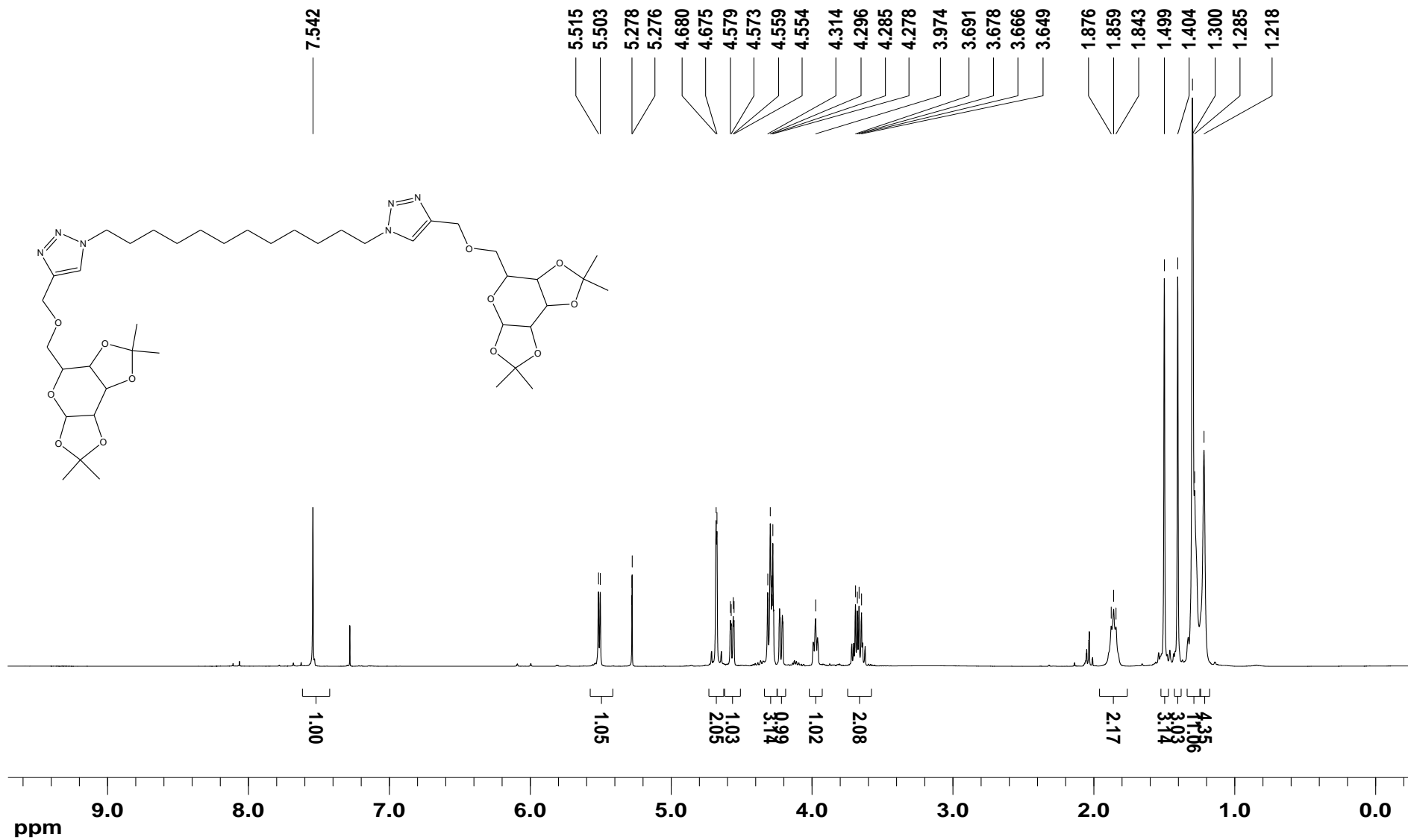


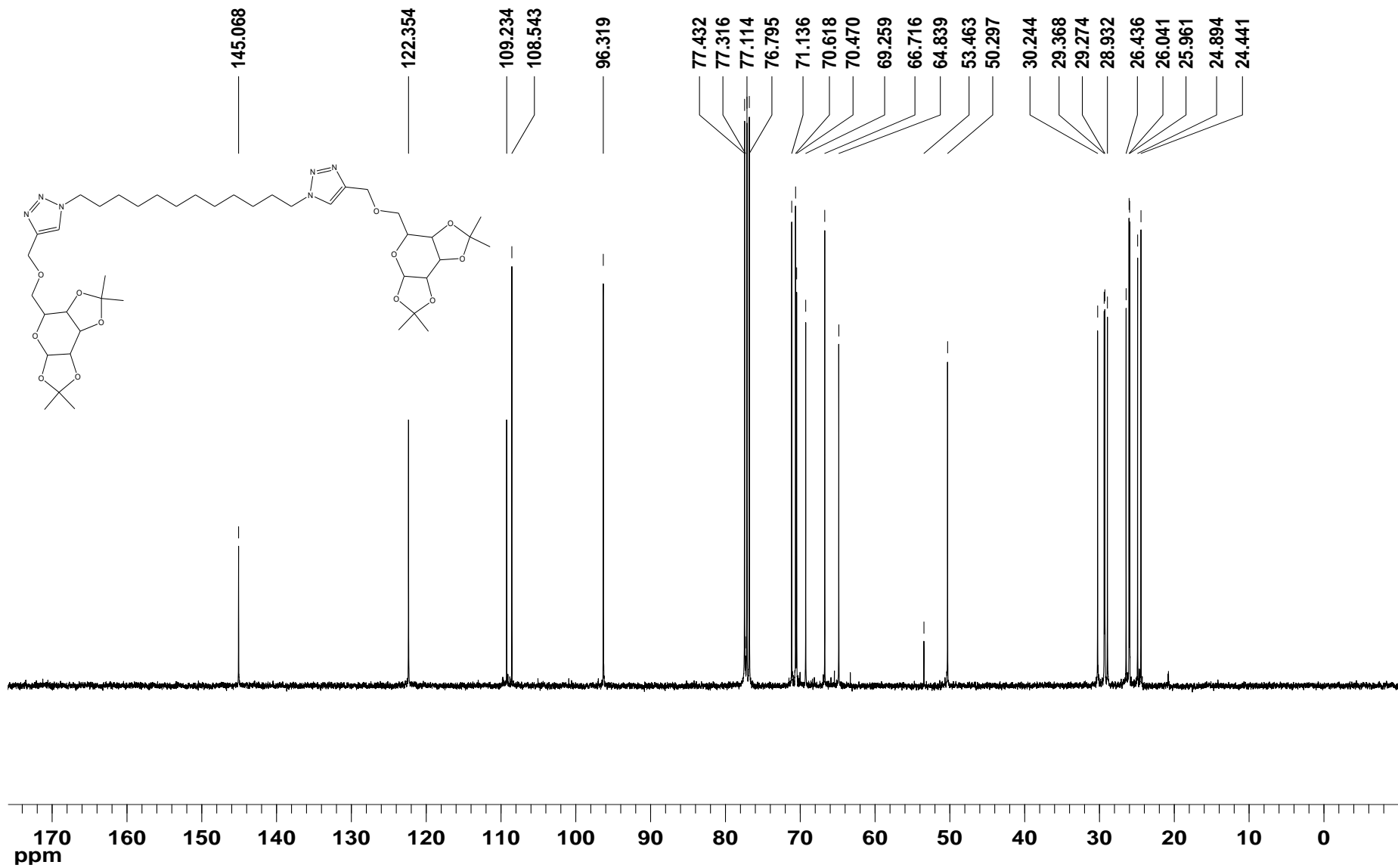
AB5

scic\_uv\_0663 50 (0.537) Cm (50:60)

1: TOF MS ES+  
4.56e3



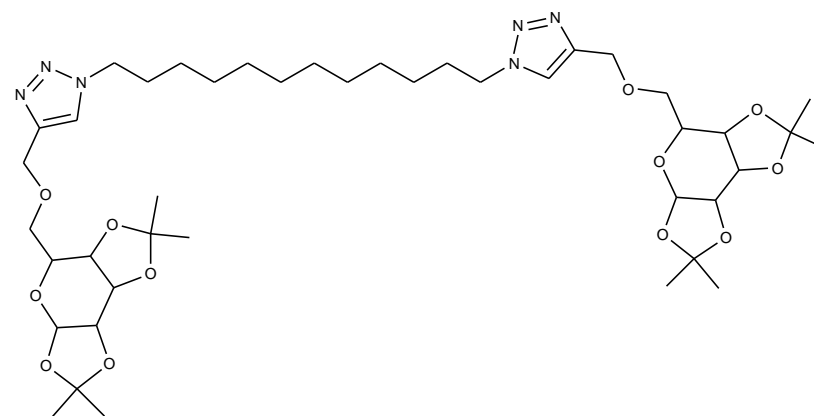
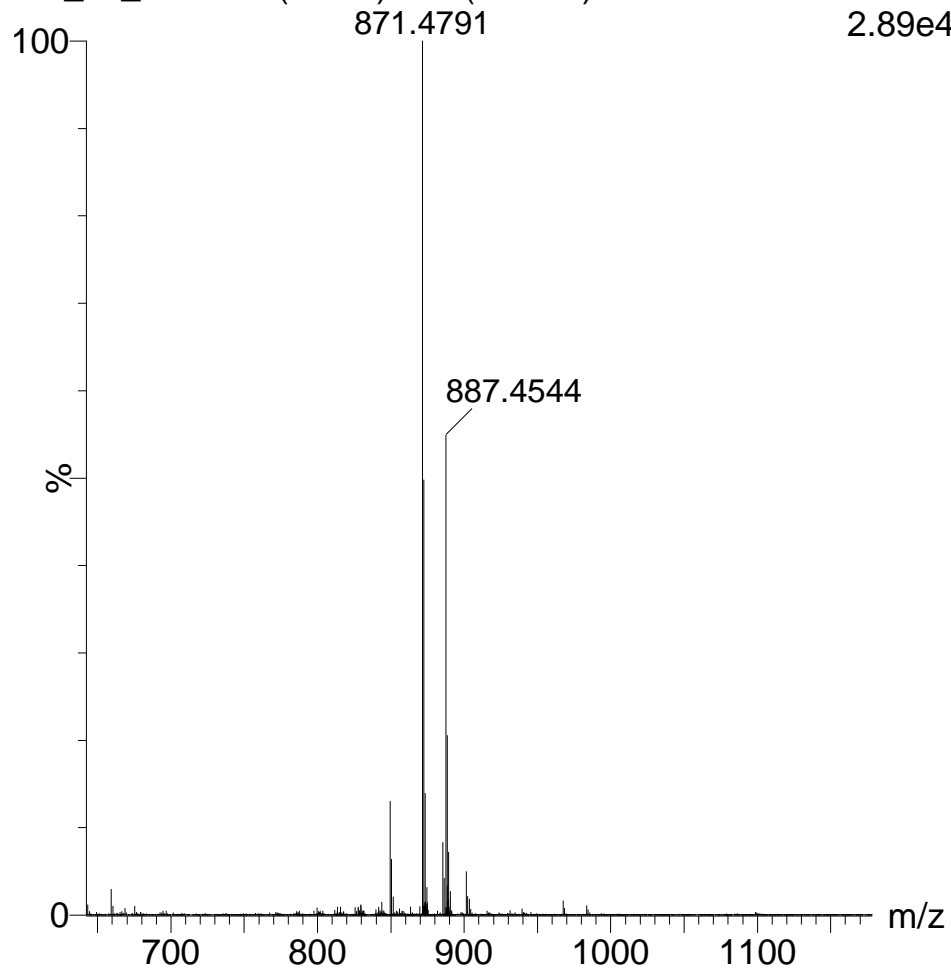


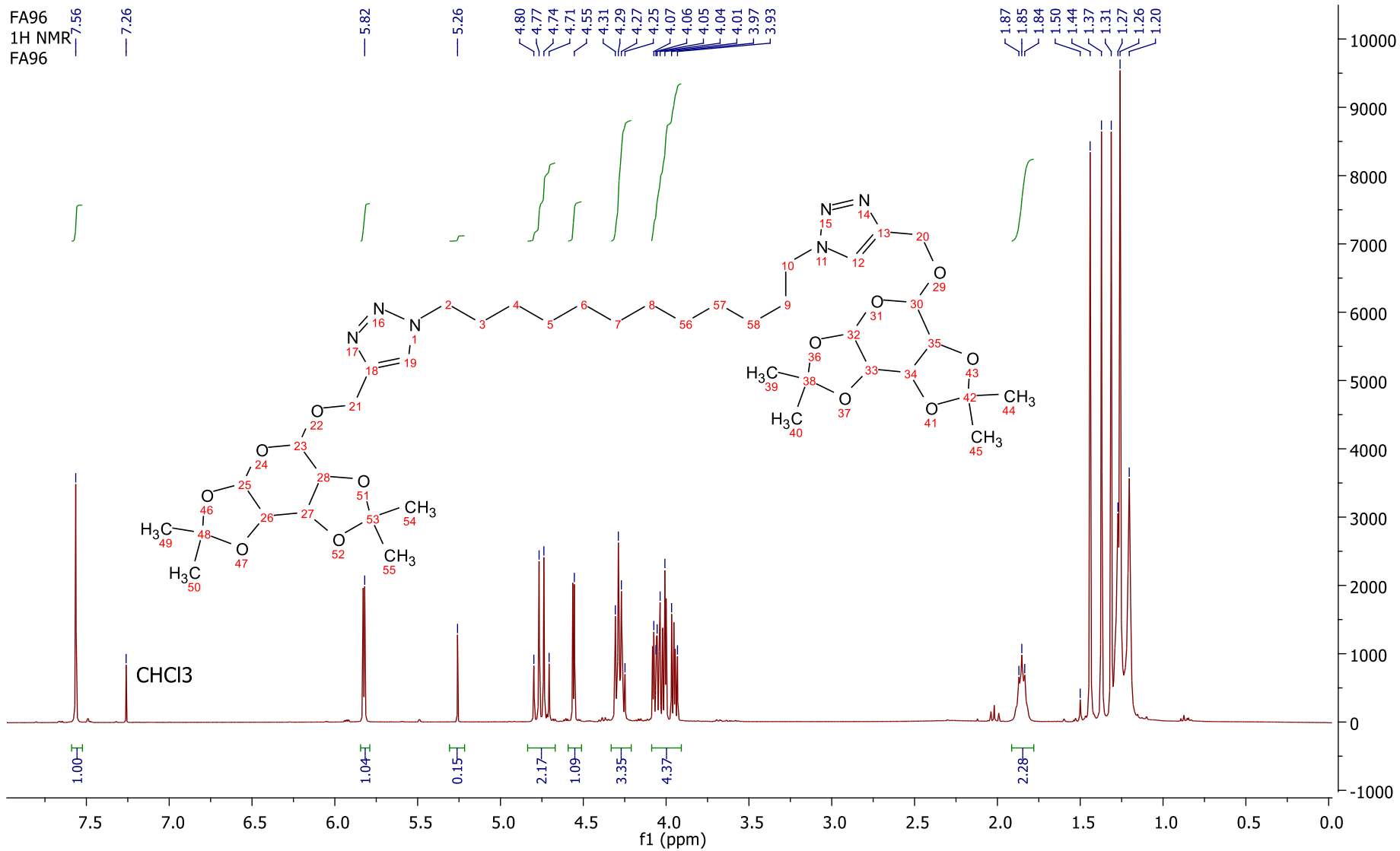


AB7

scic\_uv\_0665 97 (1.043) Cm (94:100)

1: TOF MS ES+  
2.89e4





S45

FA968  
13C NMR  
FA961

