

## Supporting Information

### **HBTU-catalyzed simple and mild protocol for the synthesis of quinoxaline derivatives**

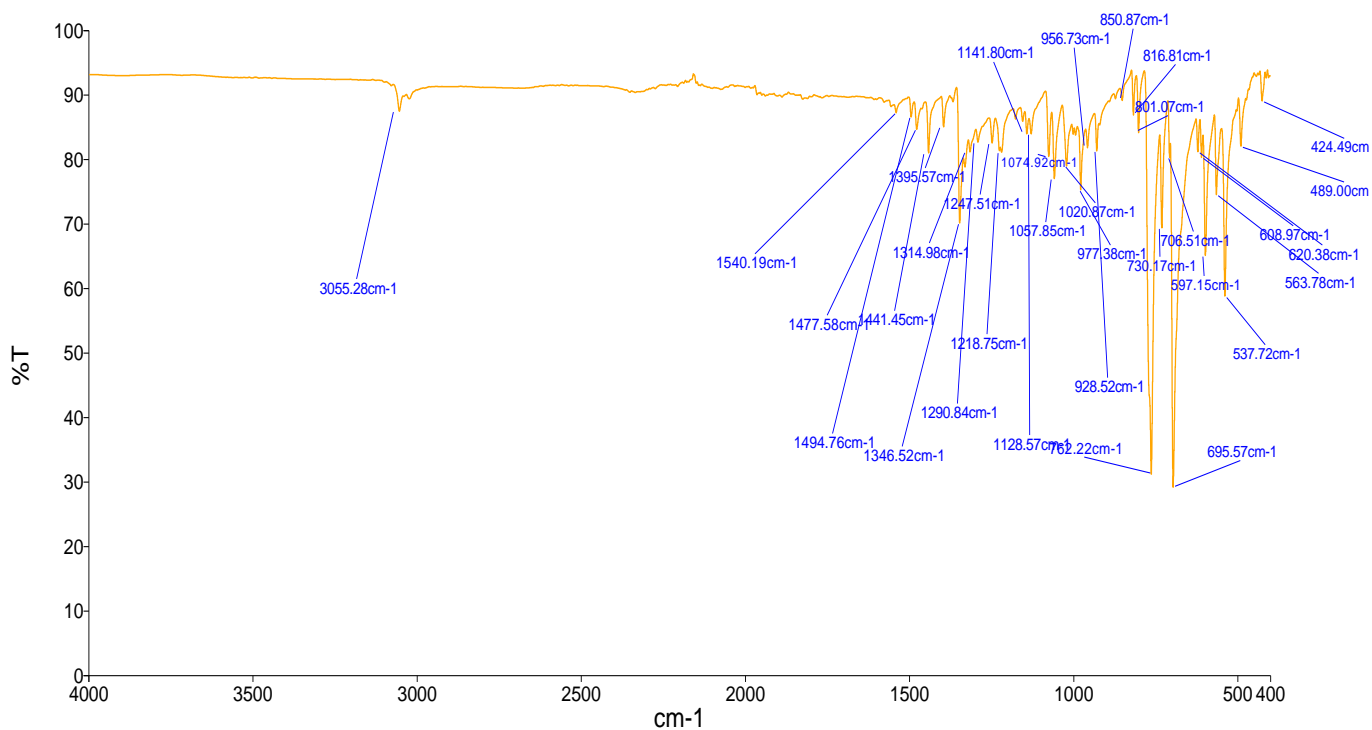
Bhushan B. Popatkar\* and Gangadhar A. Meshram

Department of Chemistry, University of Mumbai, Vidyanagari, Kalina, Santacruz (E), Mumbai 400098, Maharashtra, India. E-mail: [bhushaniict@gmail.com](mailto:bhushaniict@gmail.com)

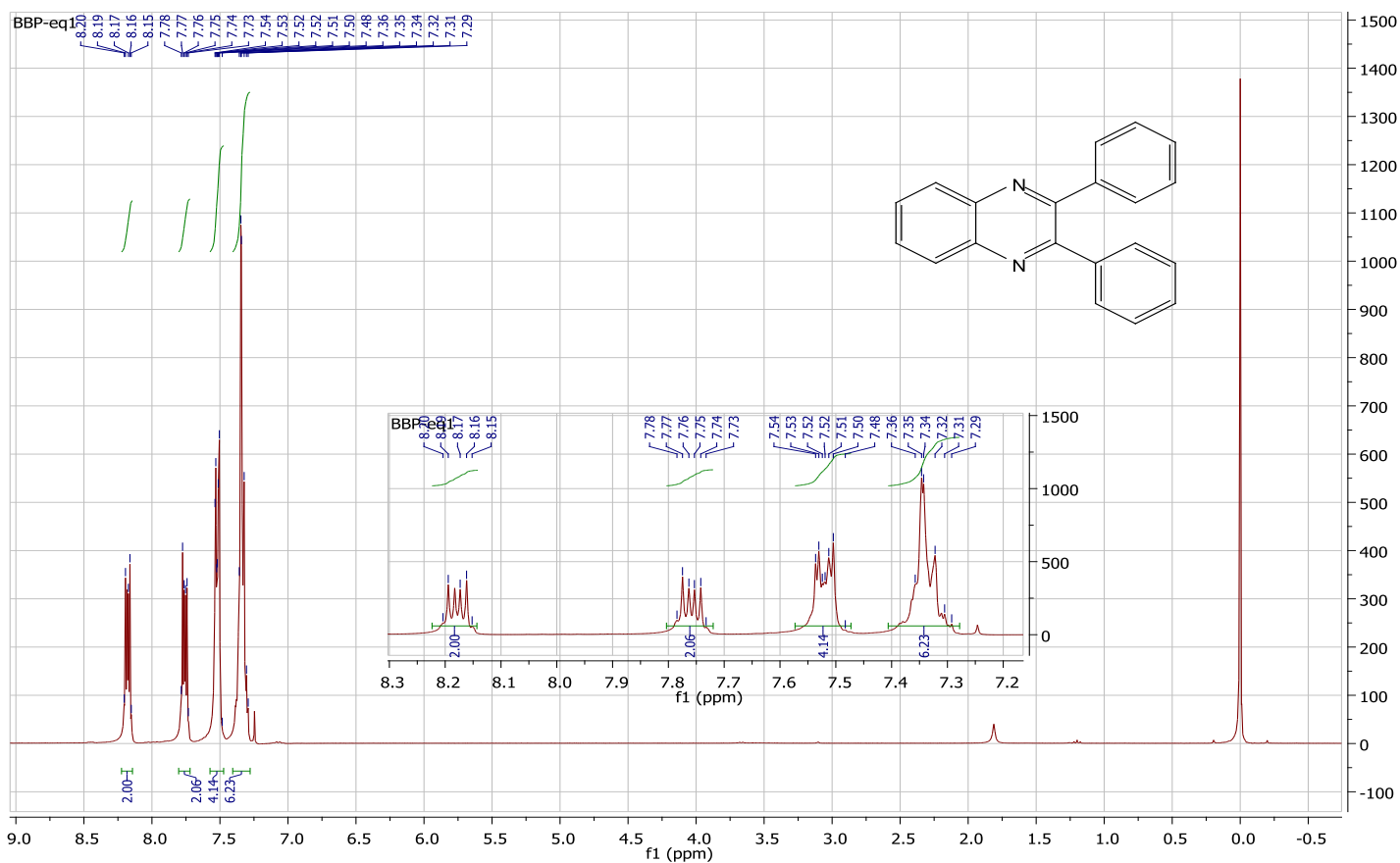
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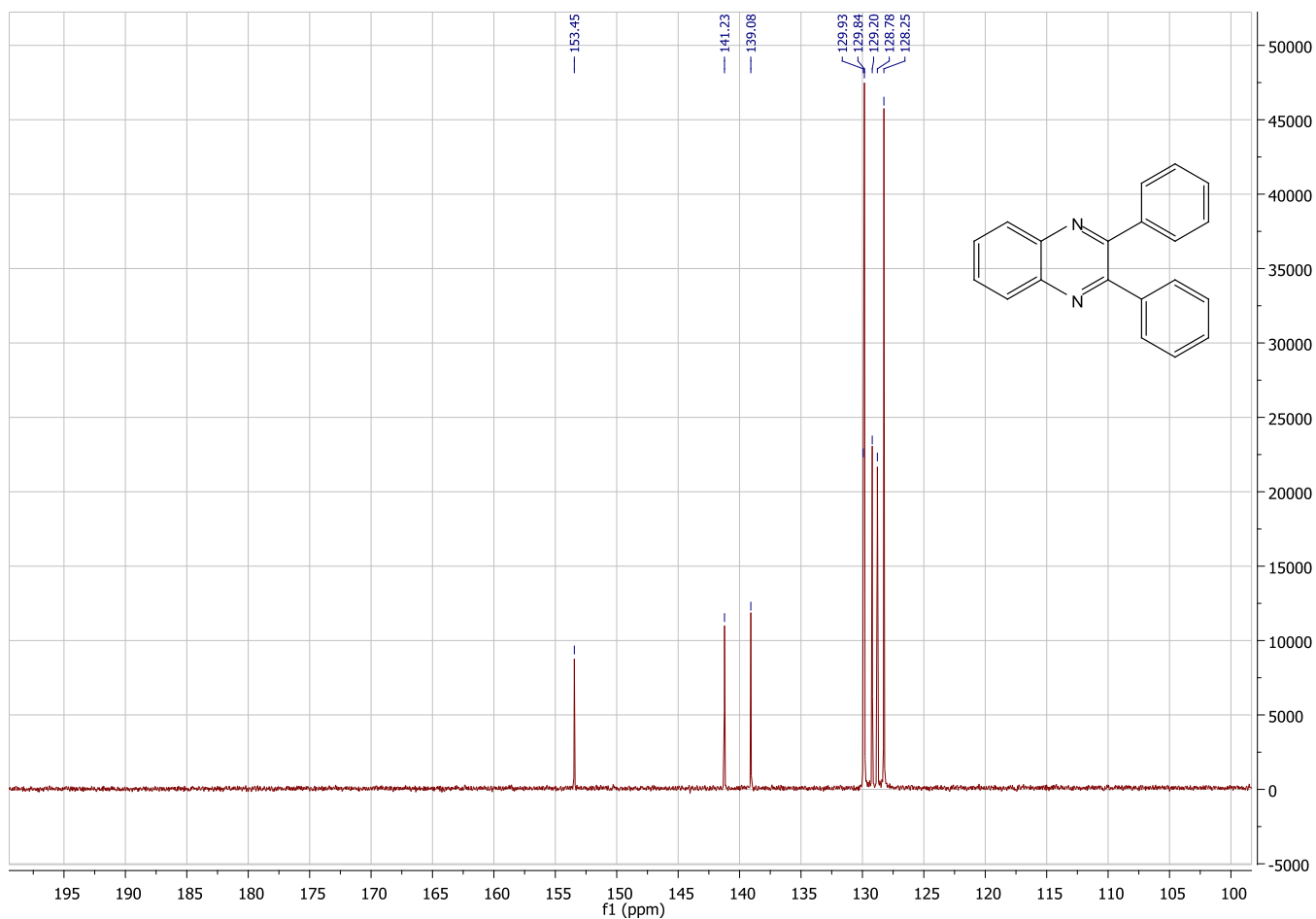
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1) 2,3-Diphenylquinoxaline (3a):



Name: BBP-EQ-1  
 Description: Sample 158 By SBM Date Wednesday, December 11 2019

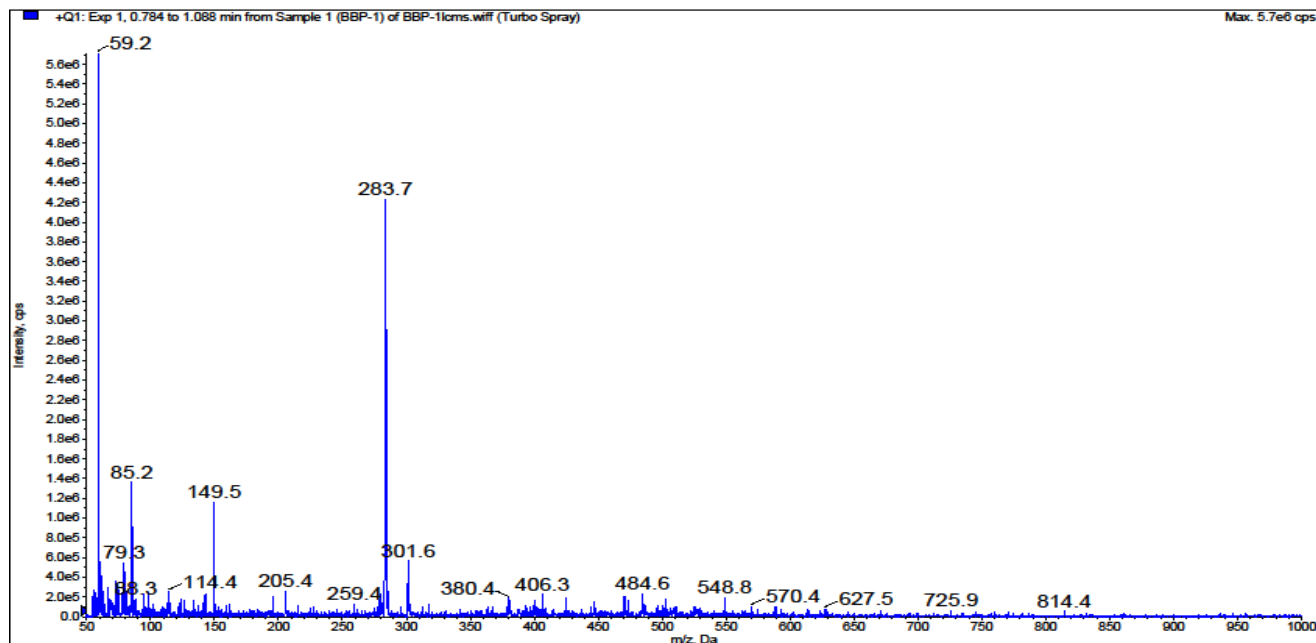




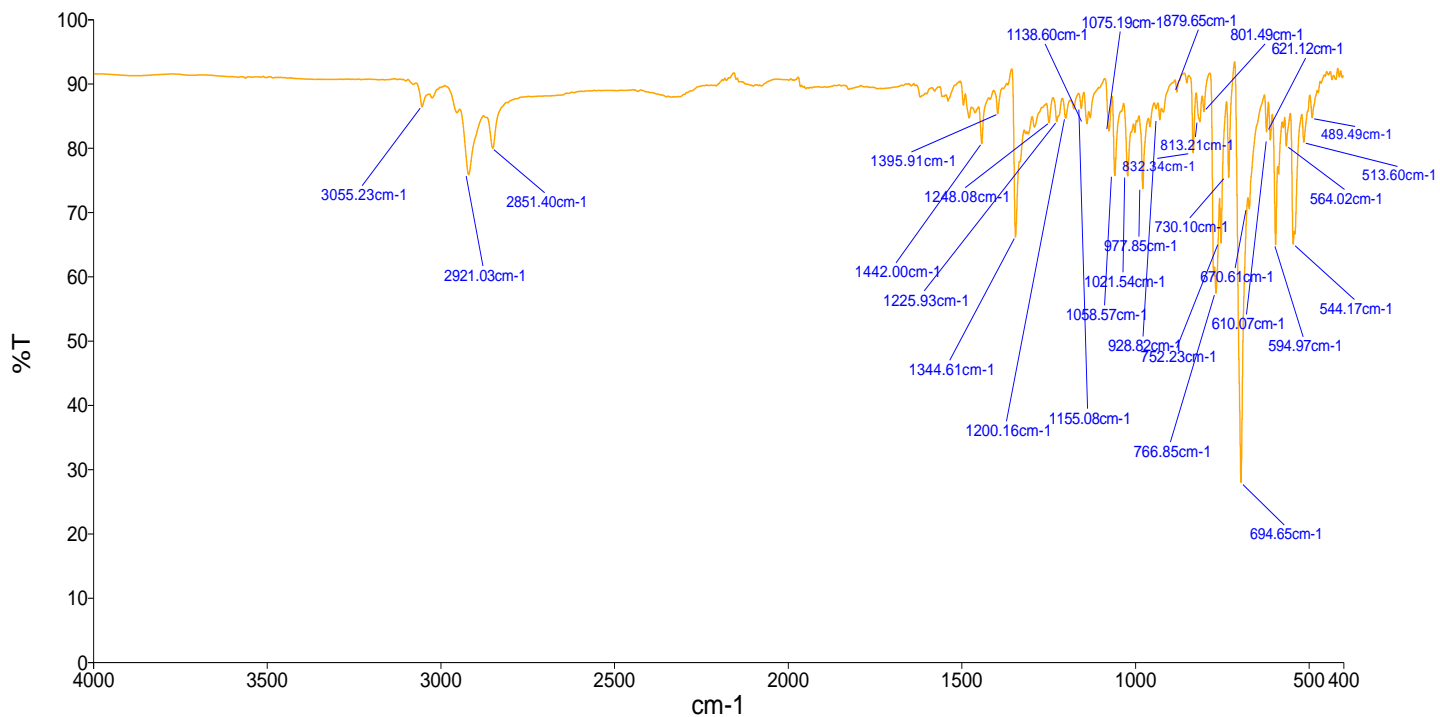
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 Sample Name: BBP-1

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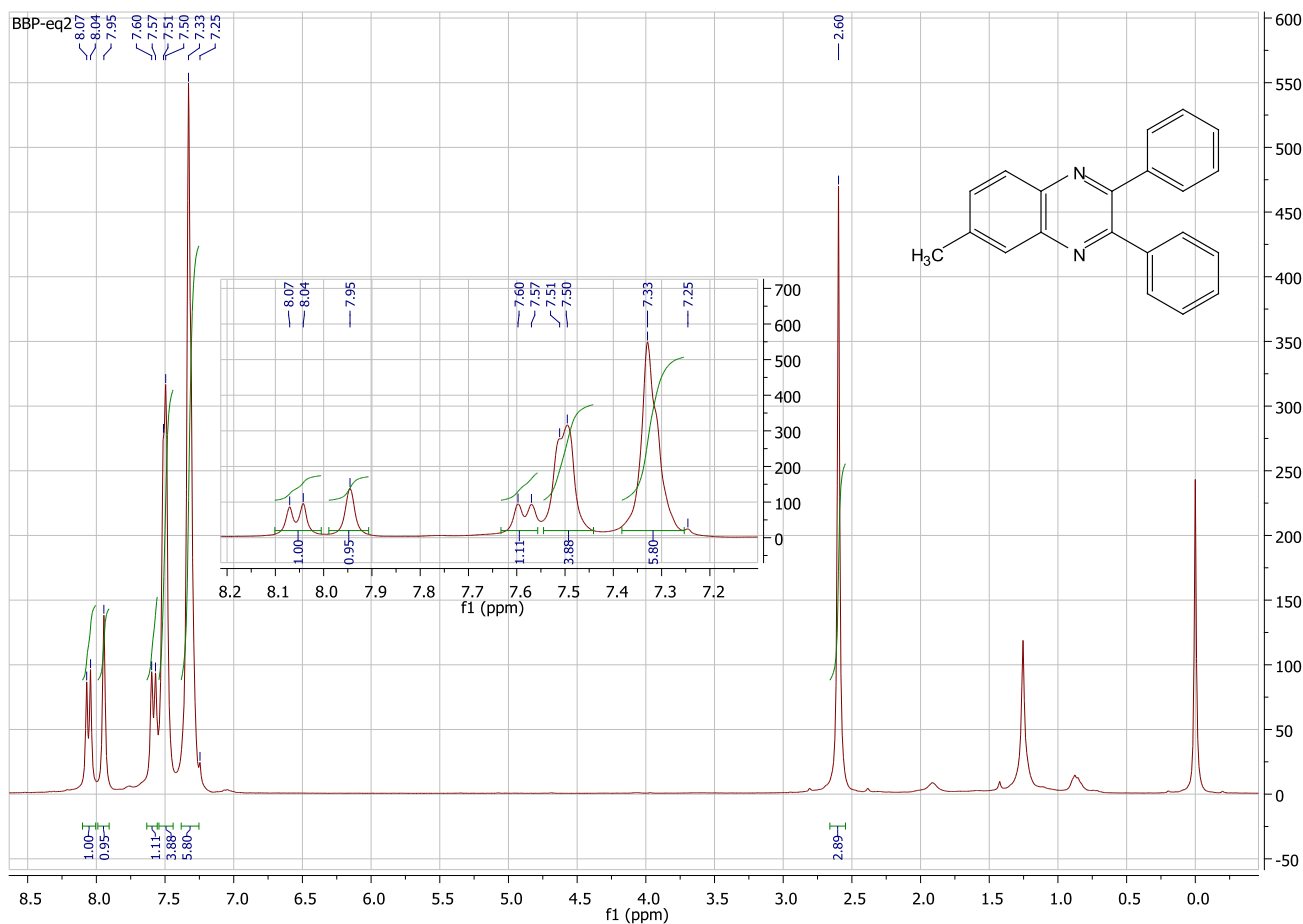
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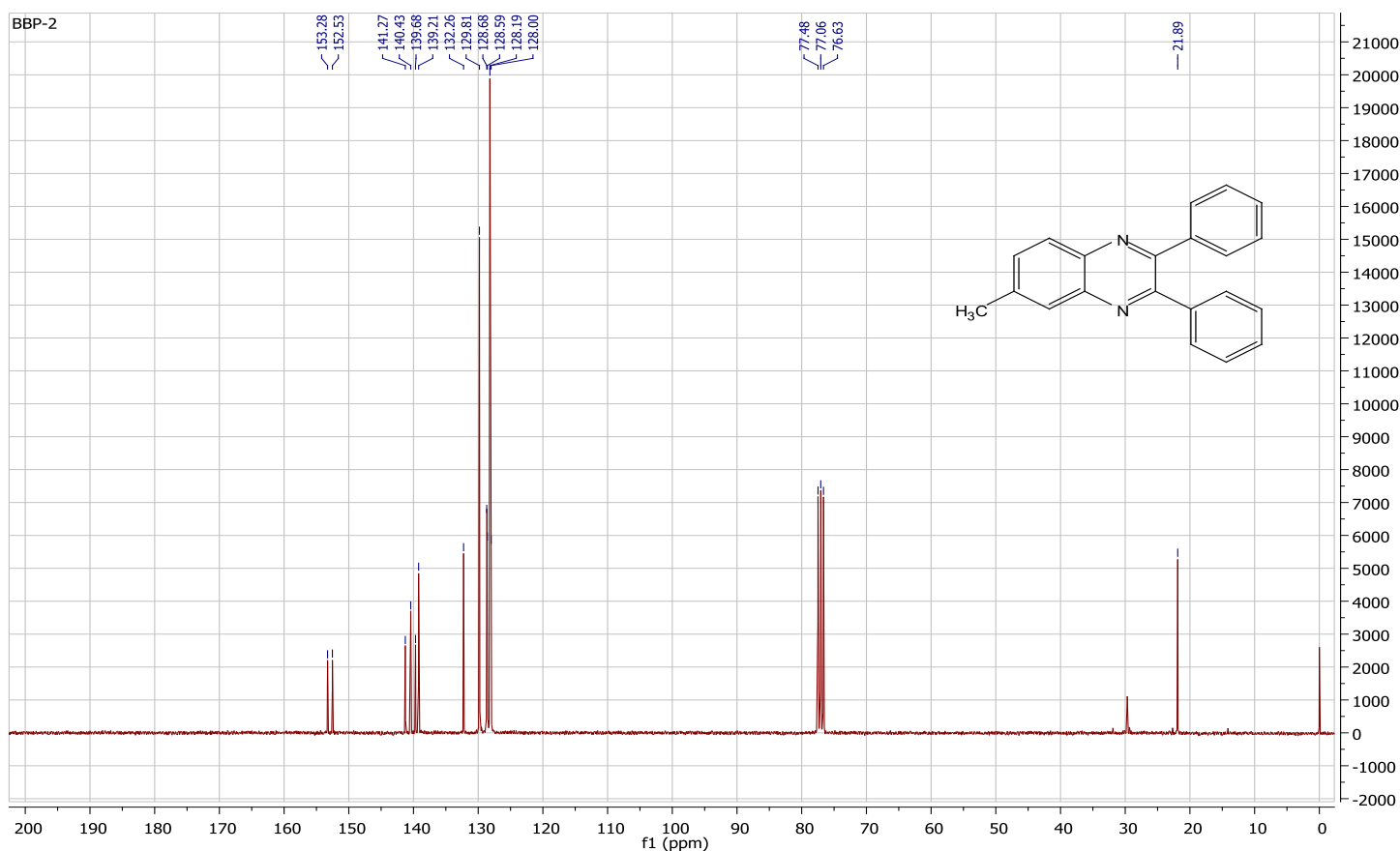


## 2) 6-Methyl-2,3-diphenylquinoxaline (3b):



Name Description  
 BBP-EQ-2 Sample 148 By SBM Date Wednesday, December 11 2019

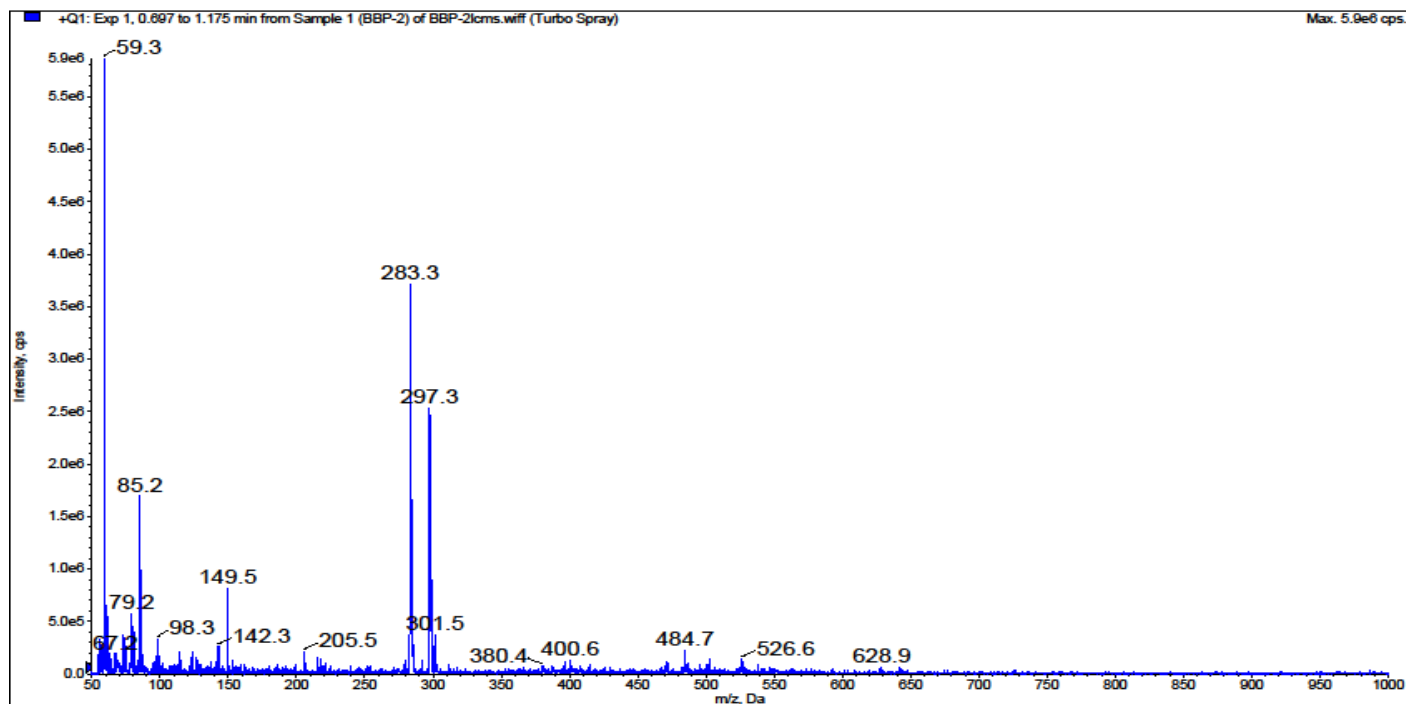




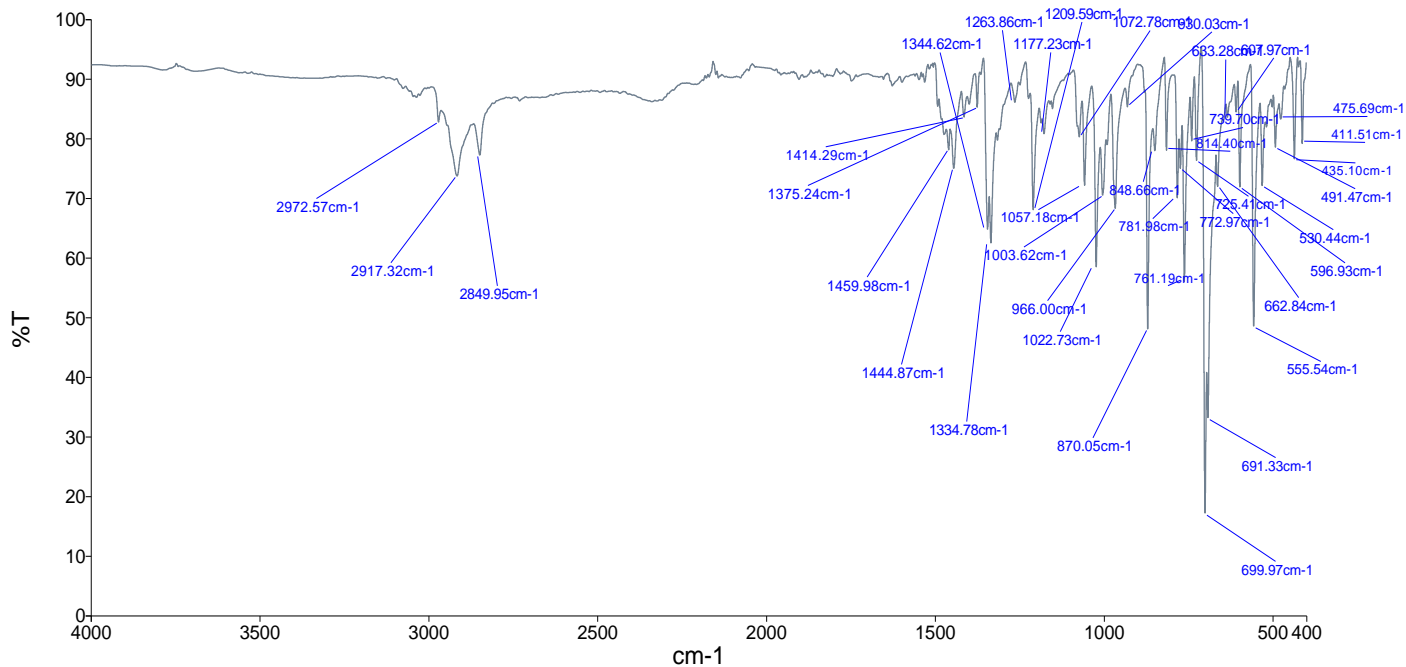
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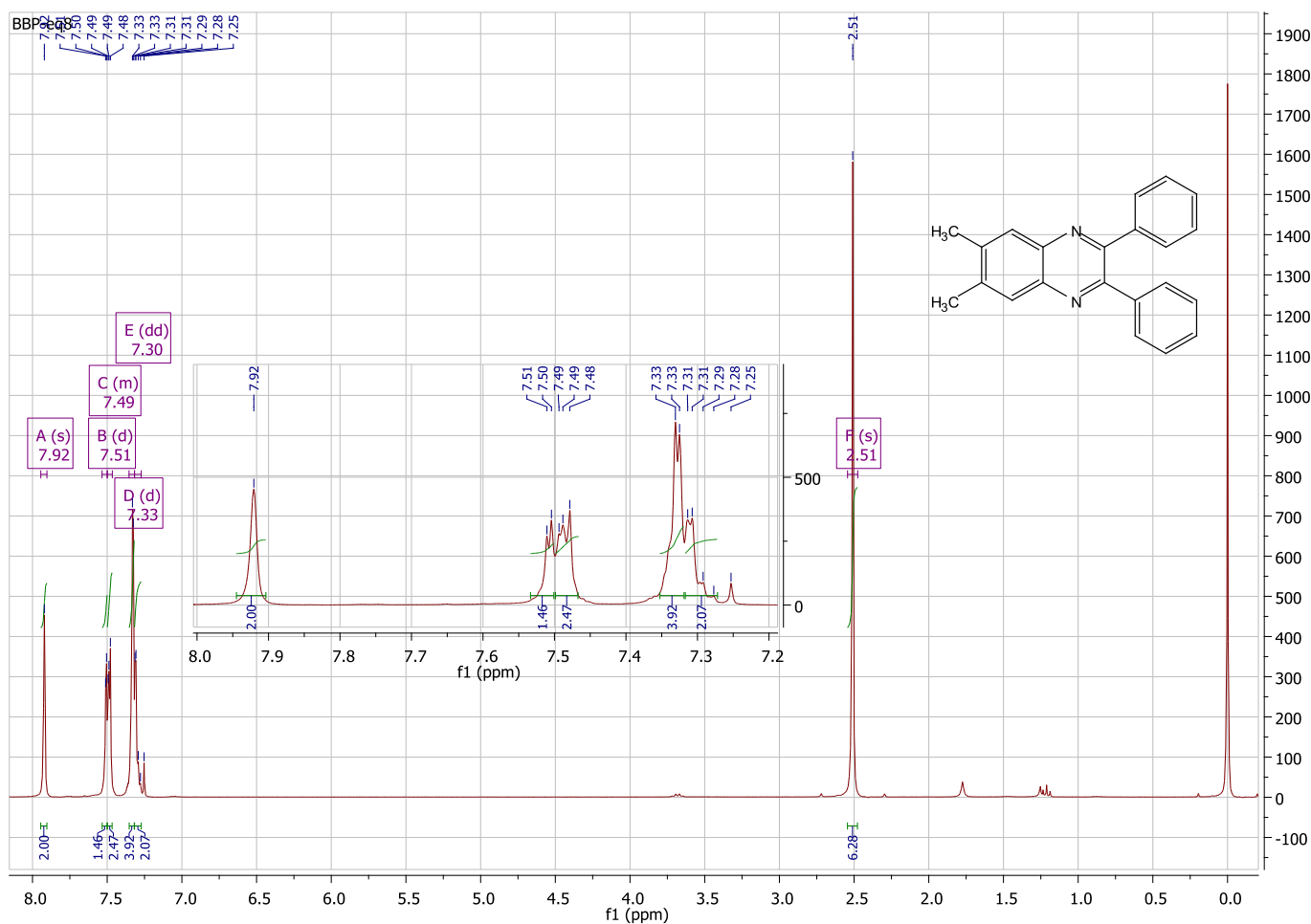
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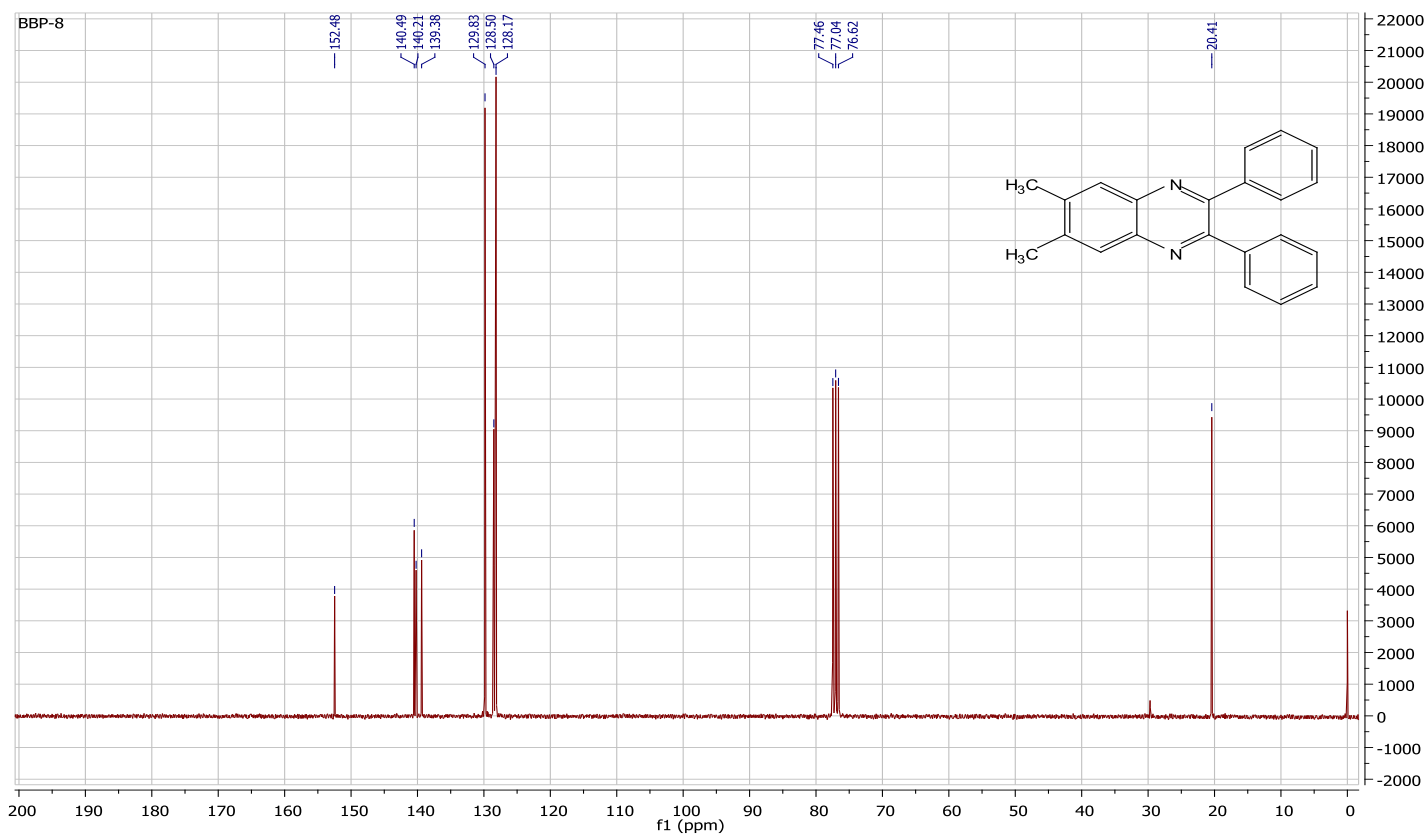


### 3) 6,7-Dimethyl-2,3-diphenylquinoxaline (3c):



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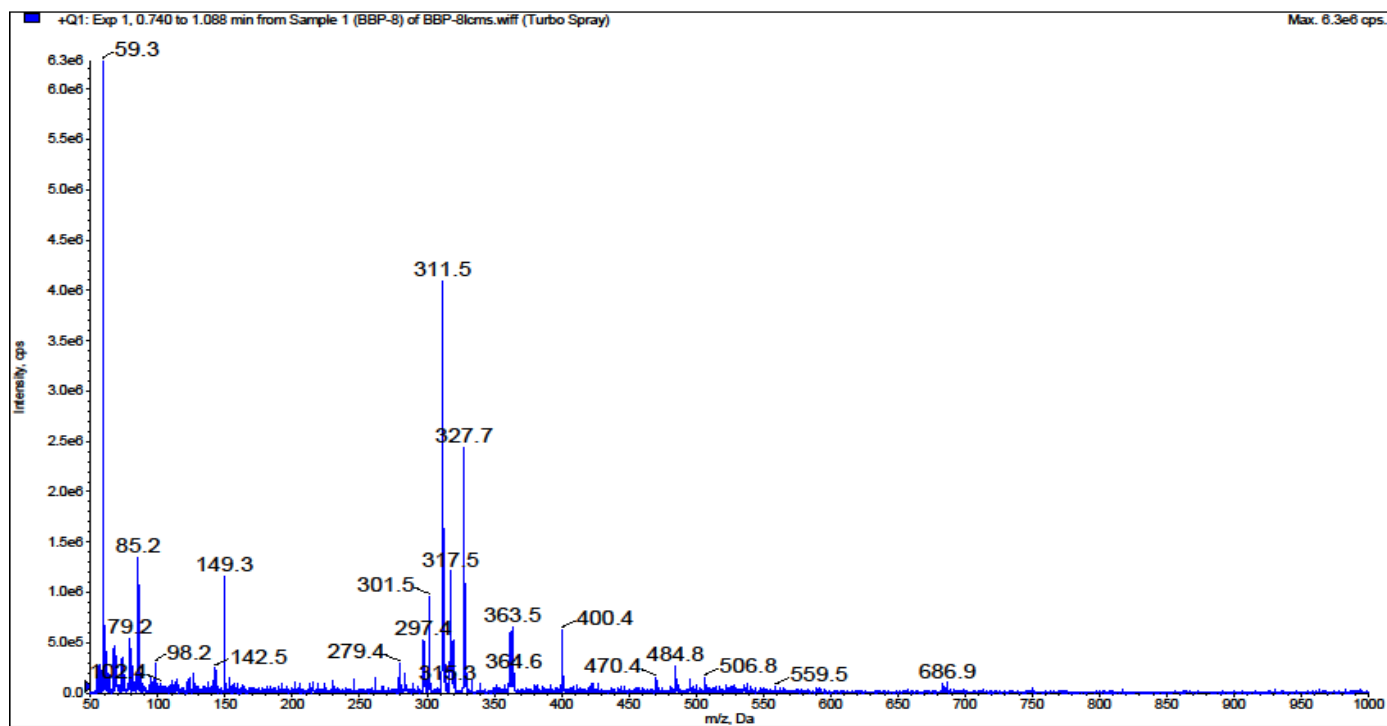




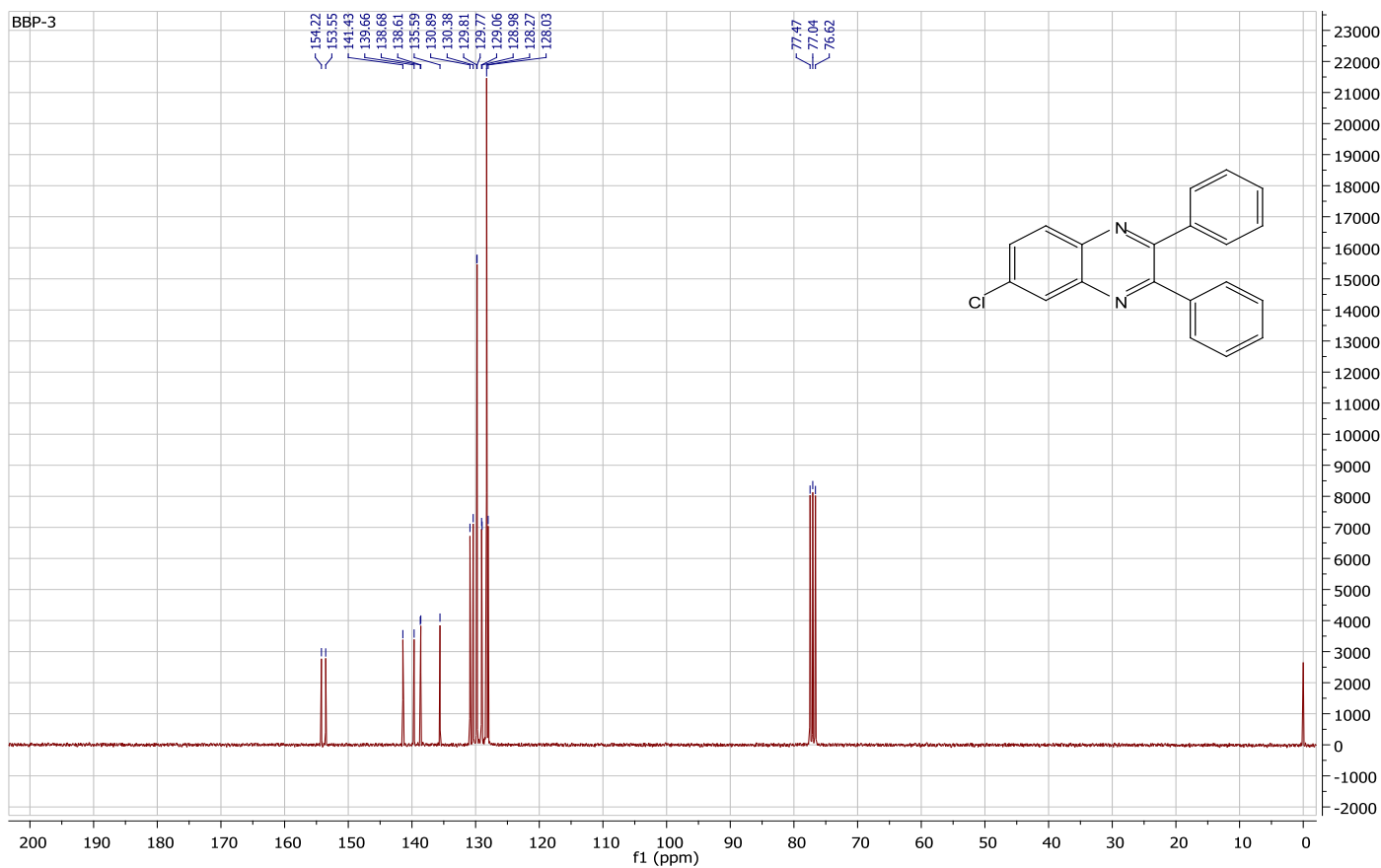
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Printing Date: 06 January 2020



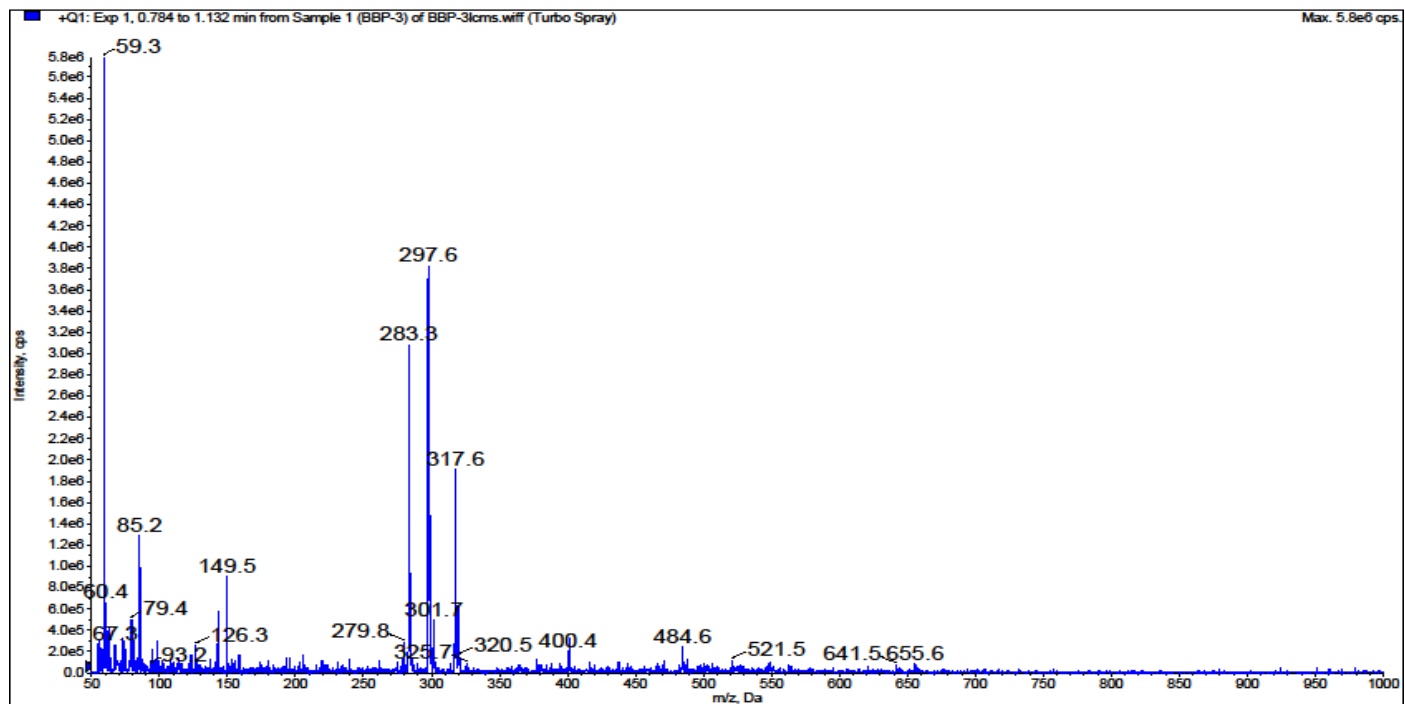




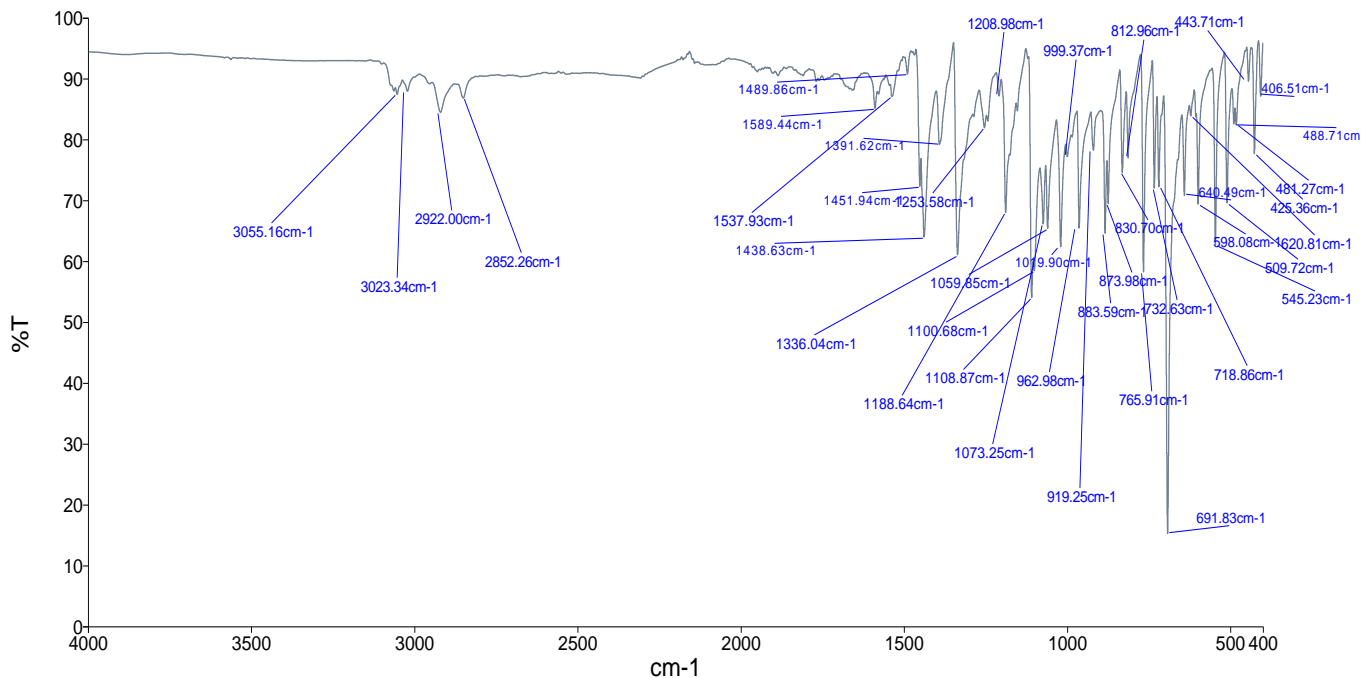
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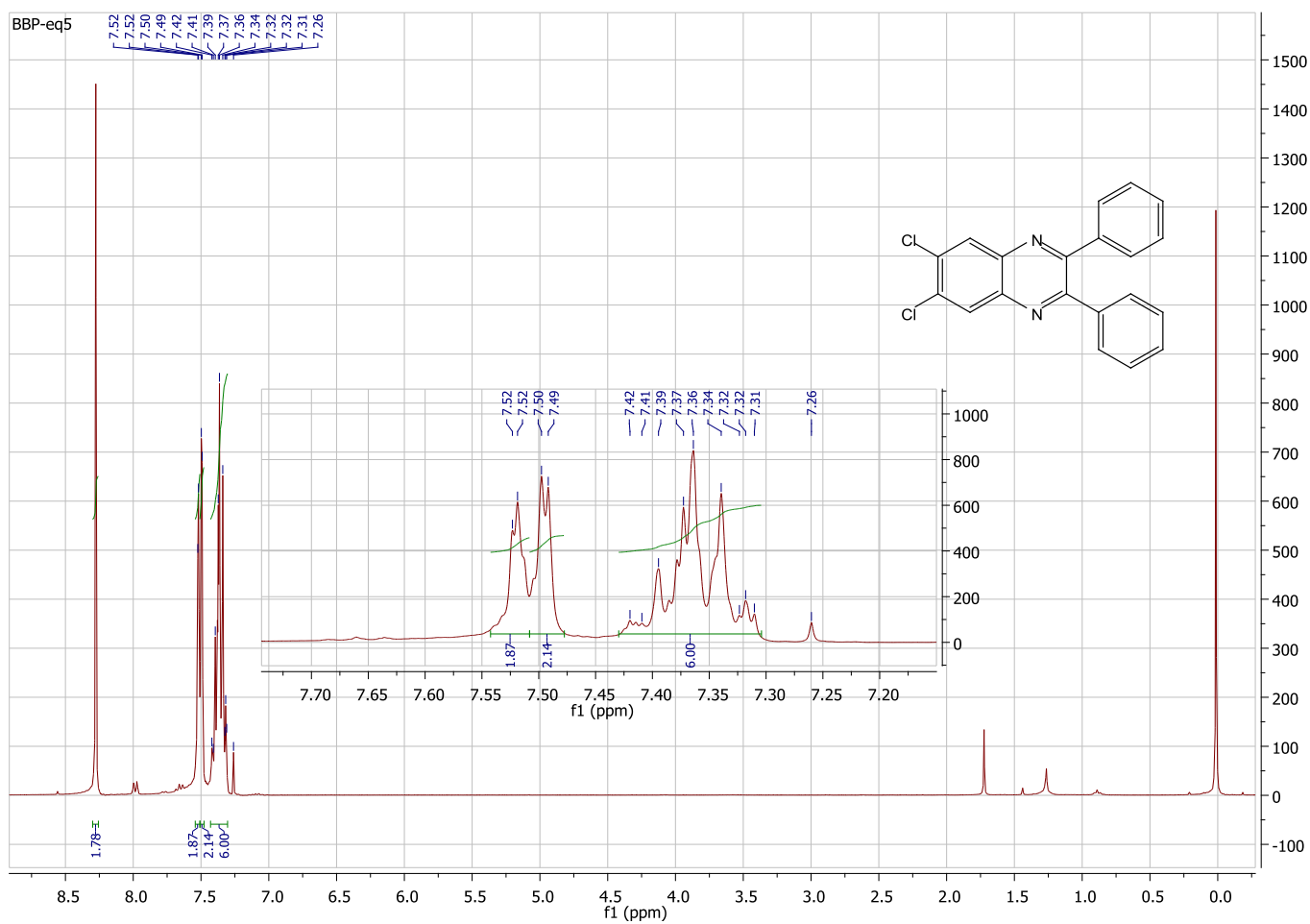
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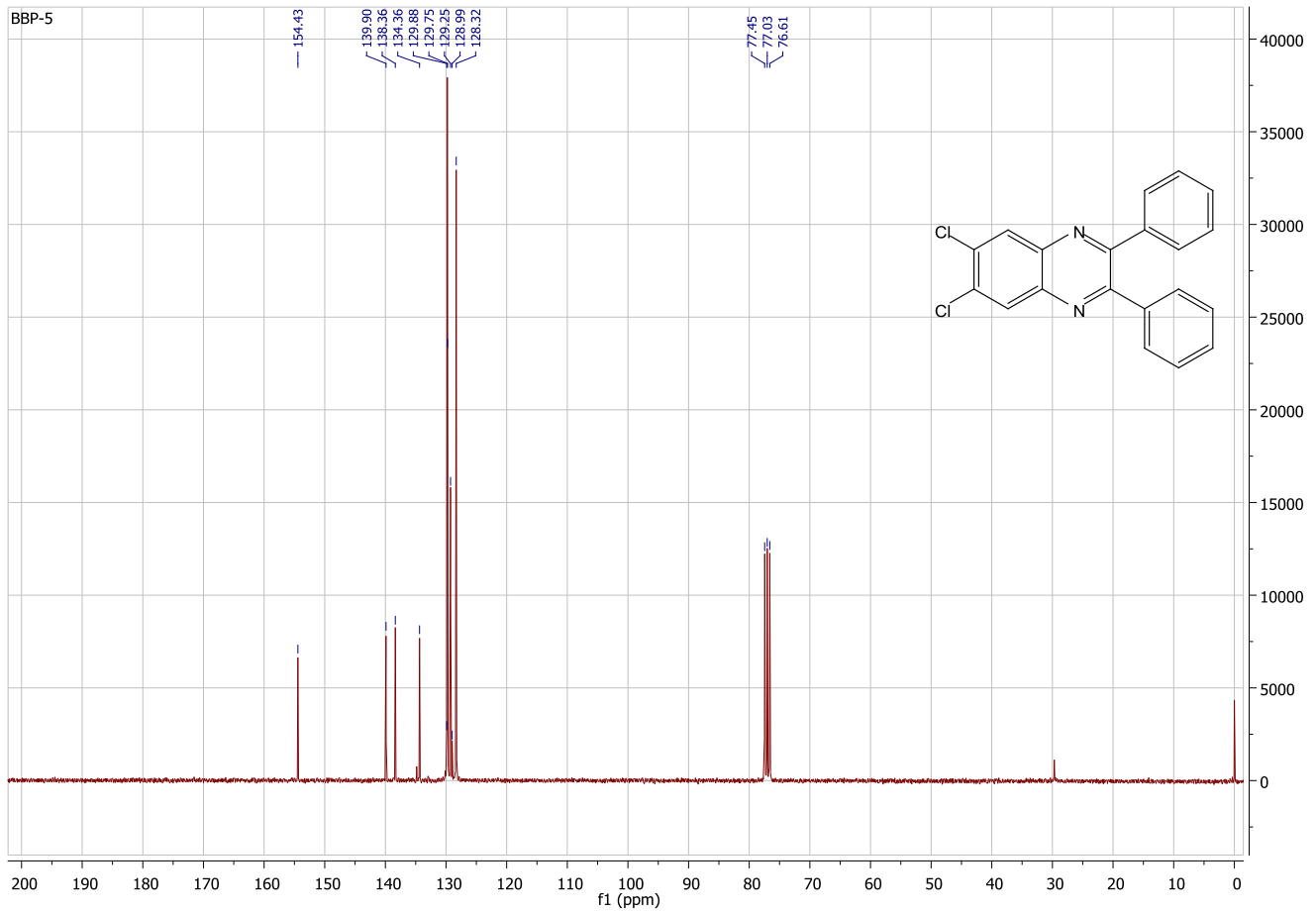


### 5) 6,7-Dichloro-2,3-diphenylquinoxaline (3e):



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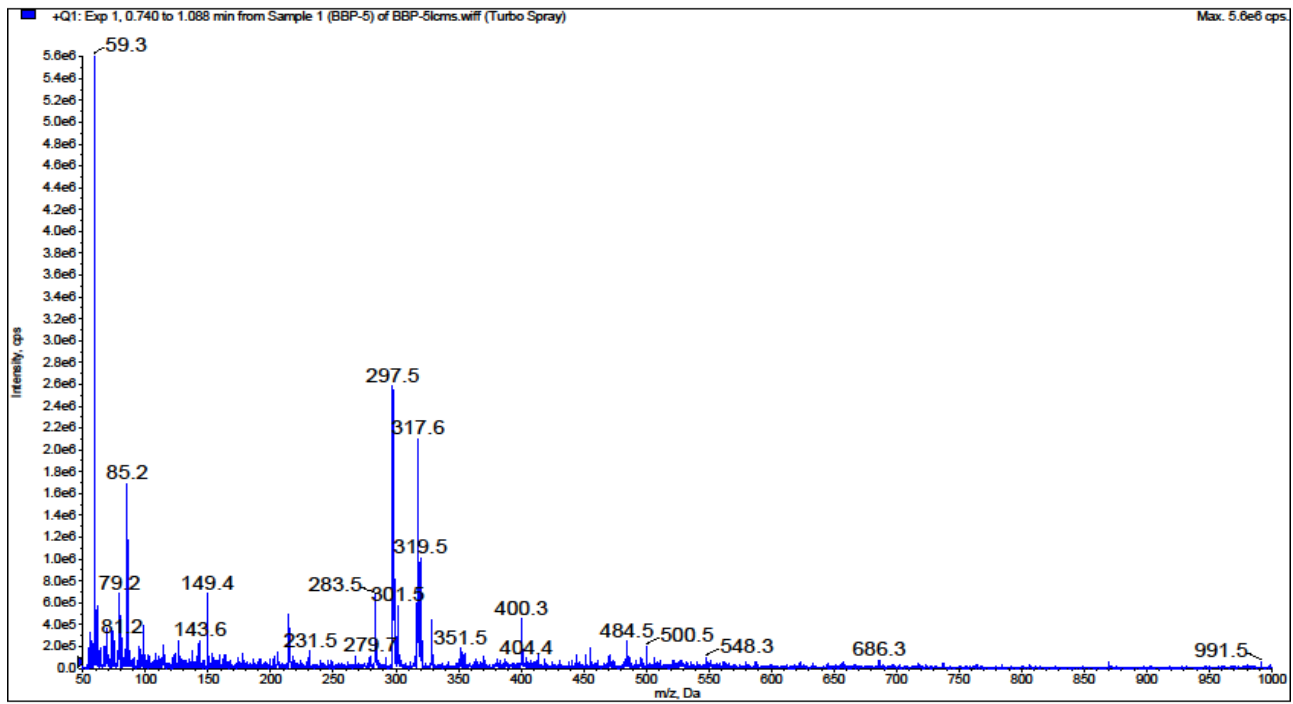




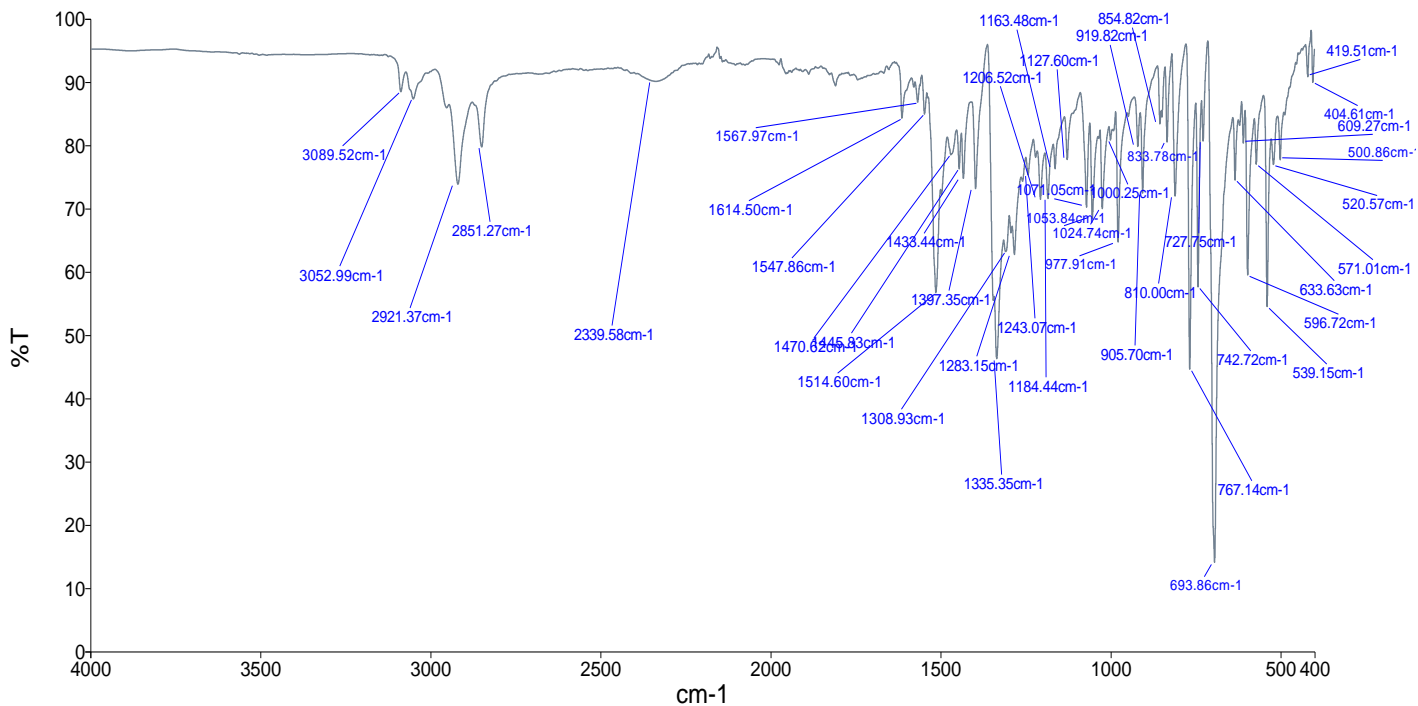
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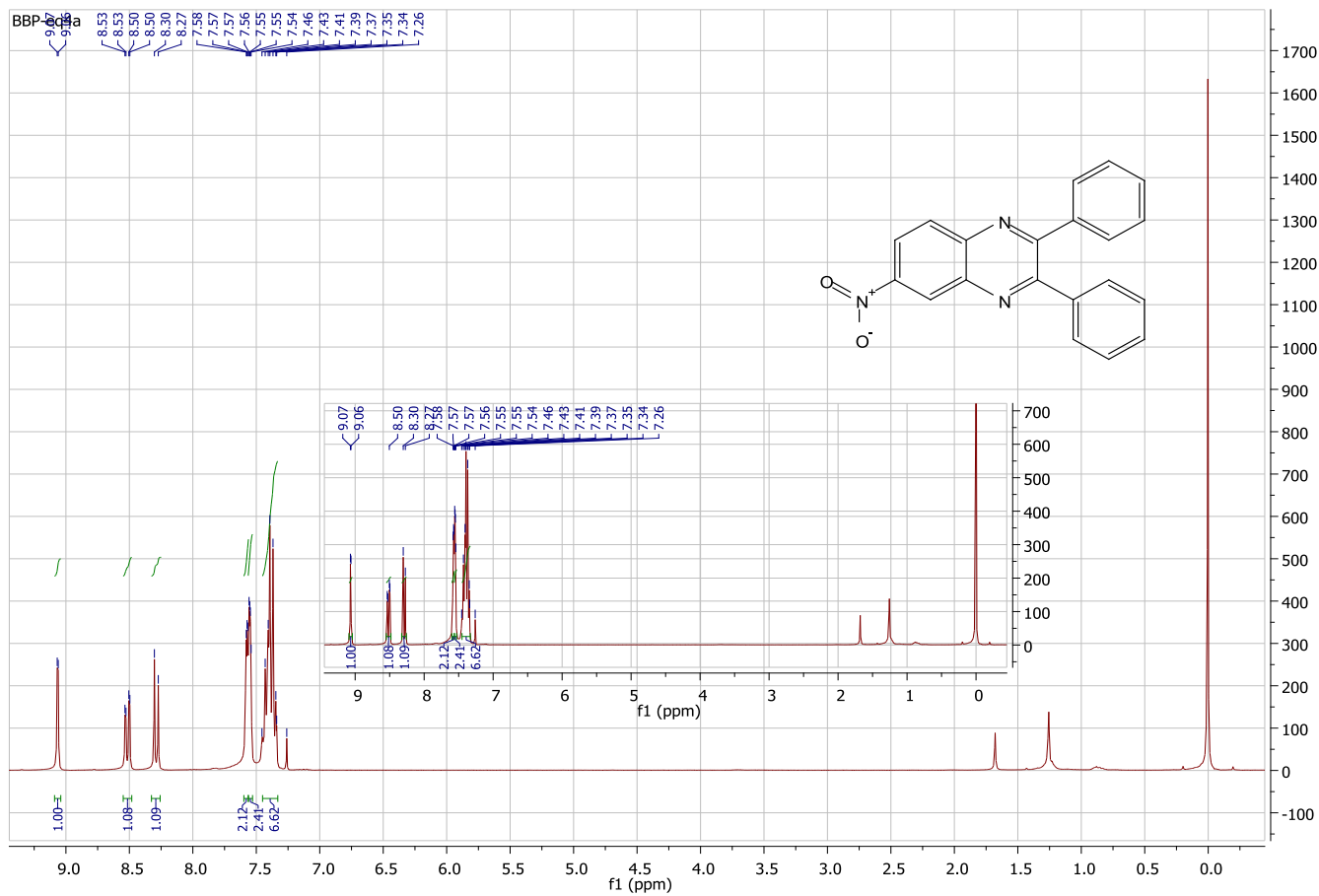
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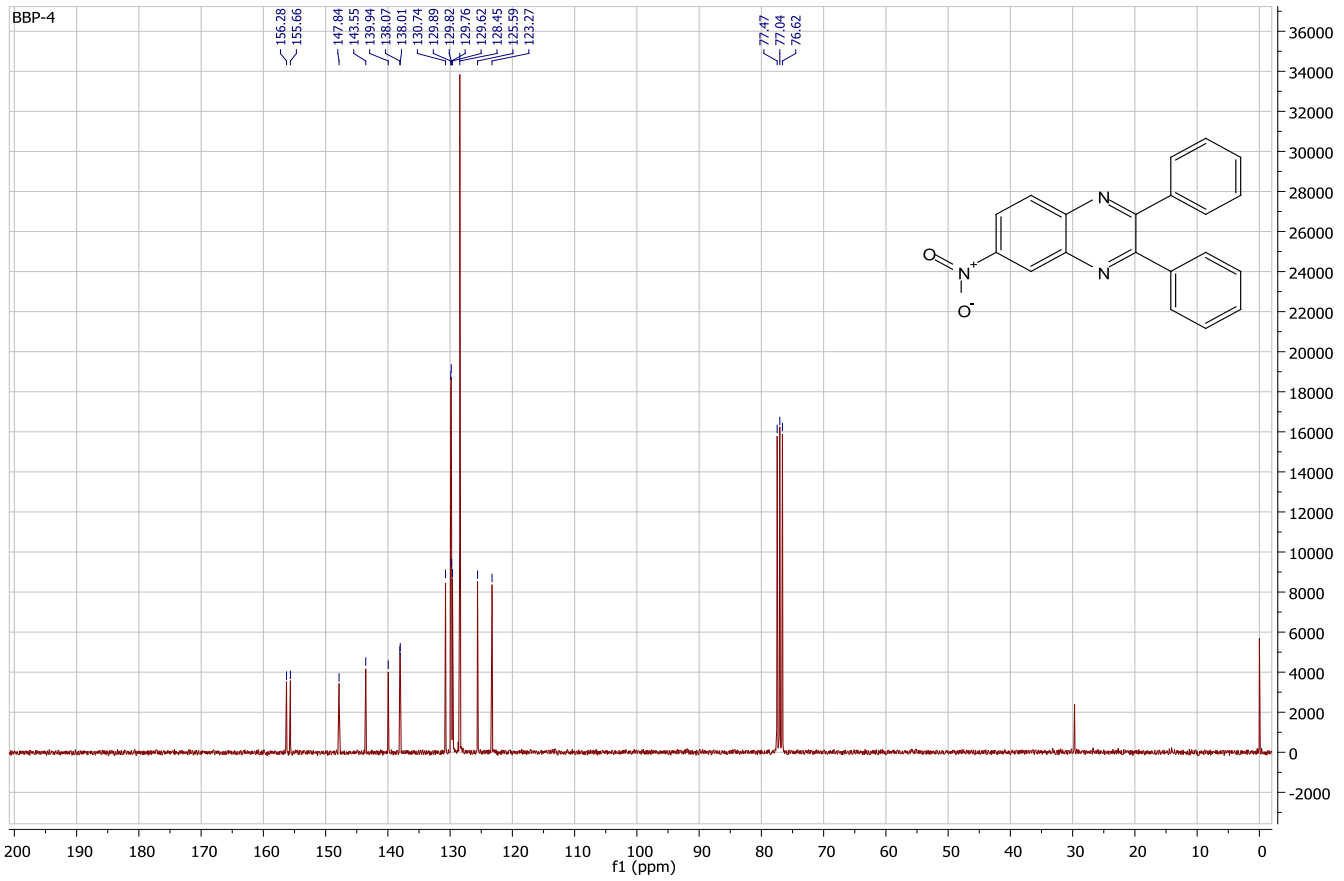


**6) 6-Nitro-2,3-diphenylquinoxaline (3f):**



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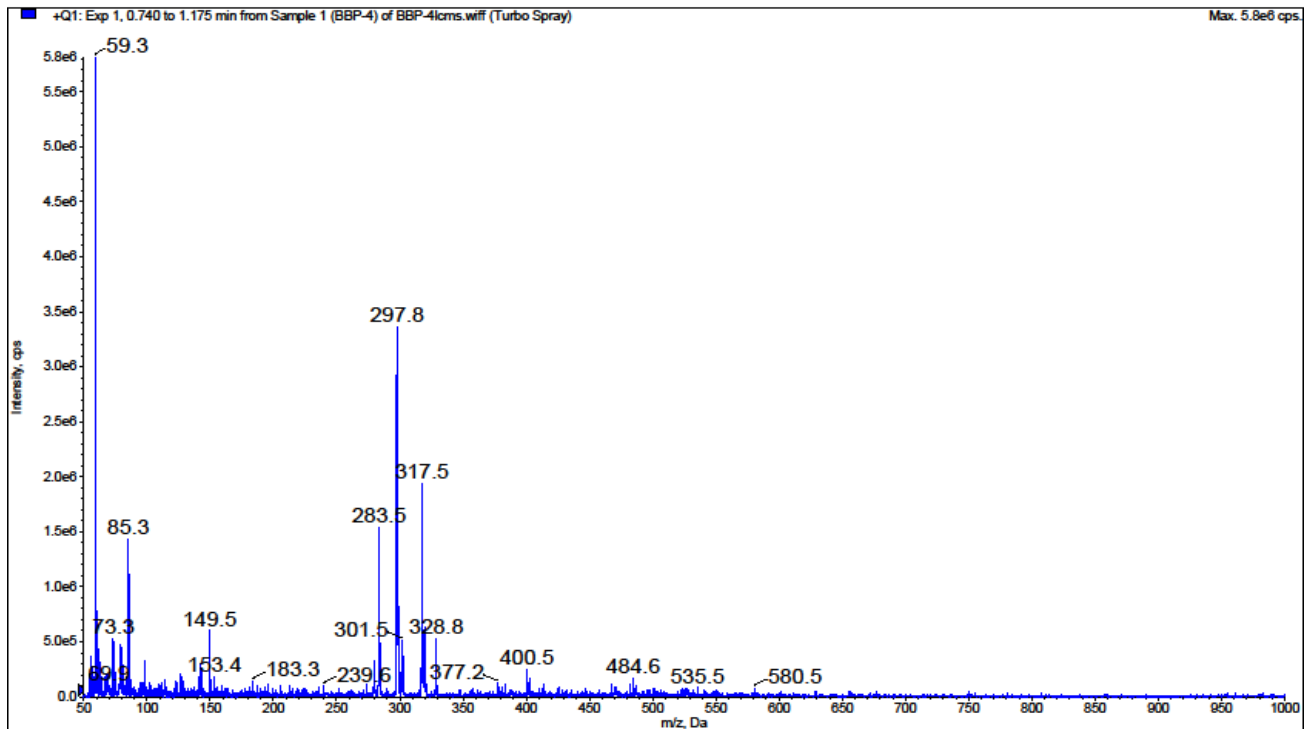




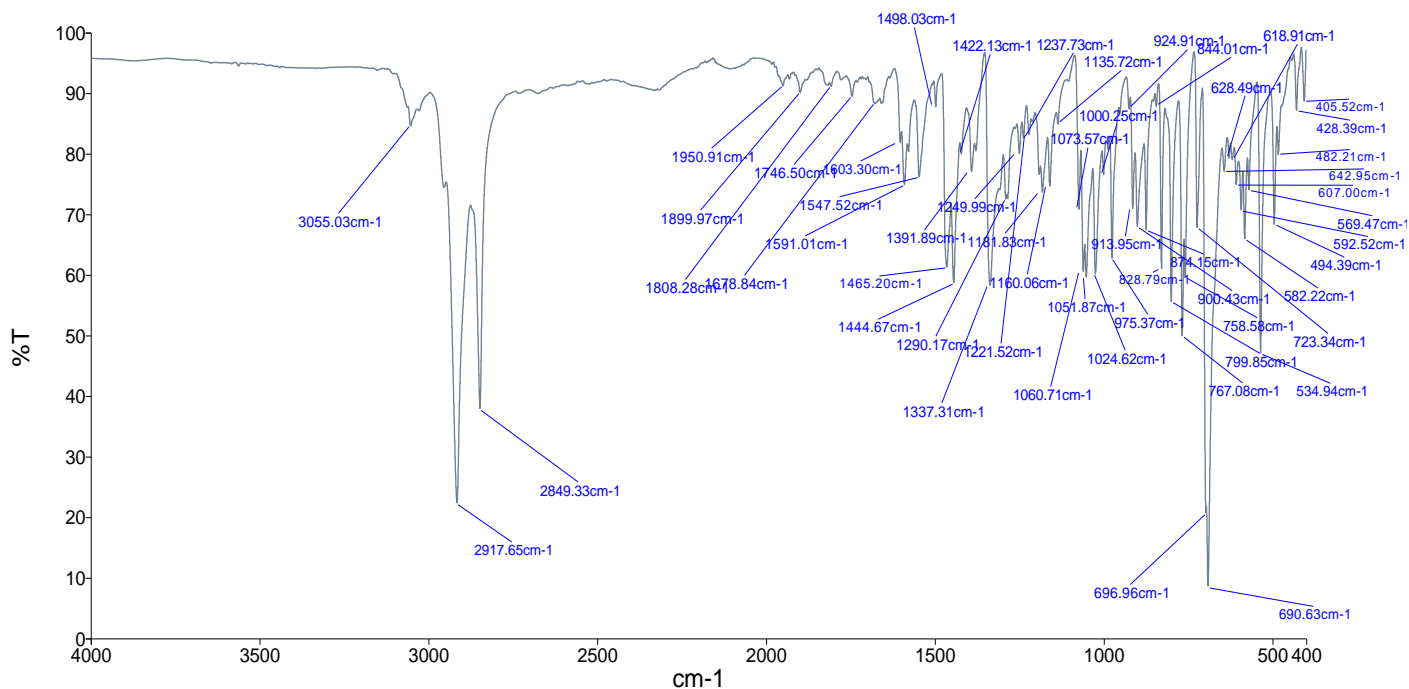
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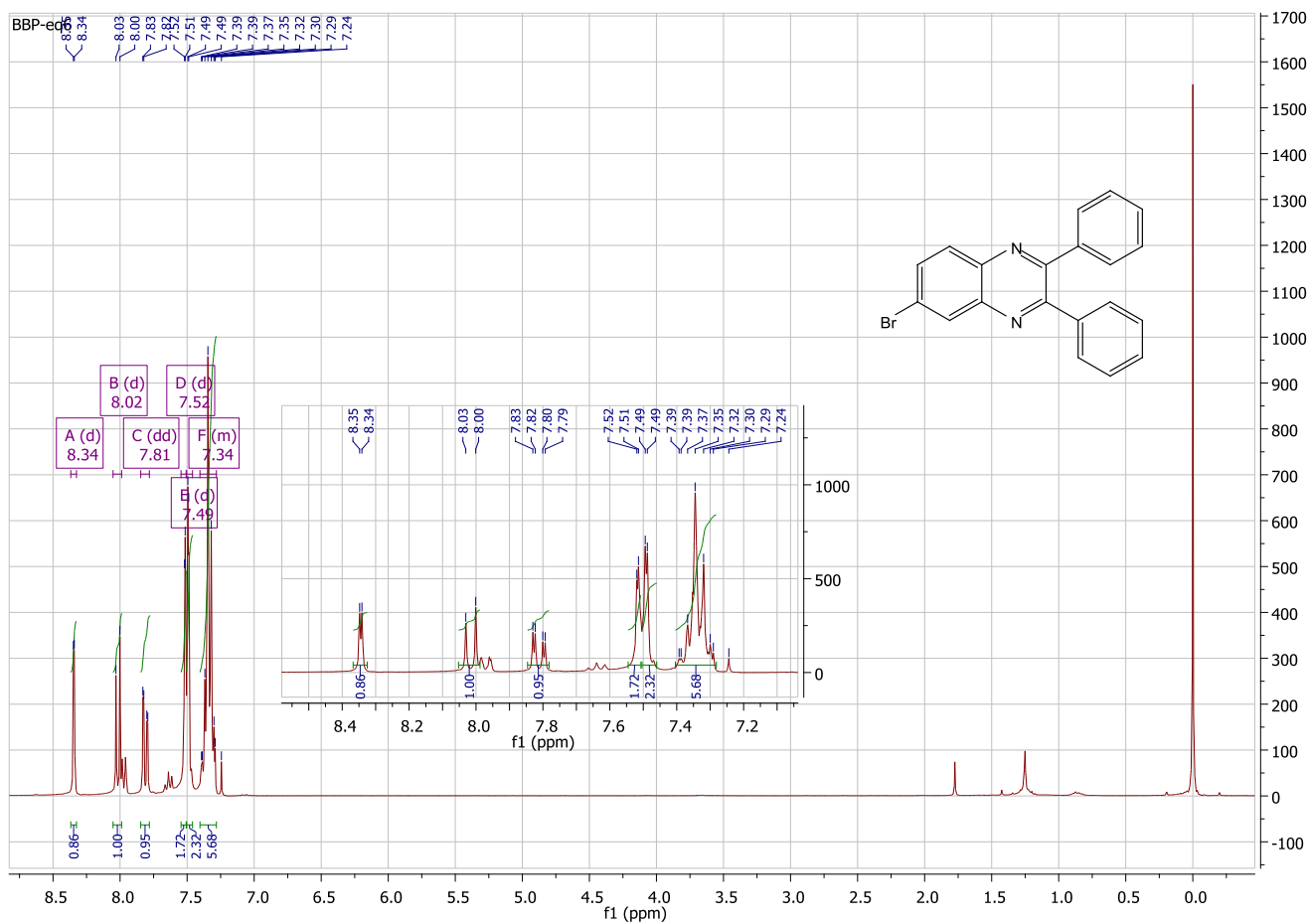
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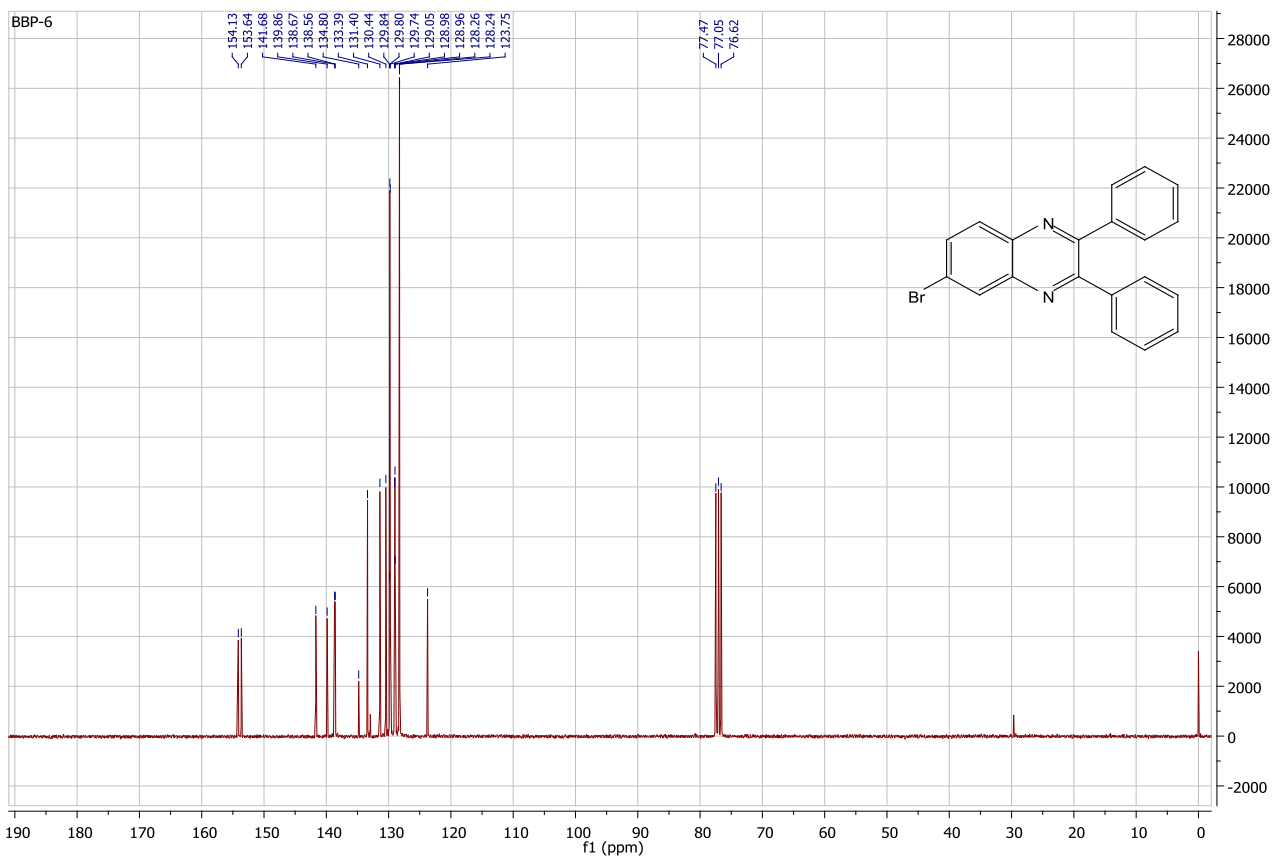


### 7) 6-Bromo-2,3-diphenylquinoxaline (3g):



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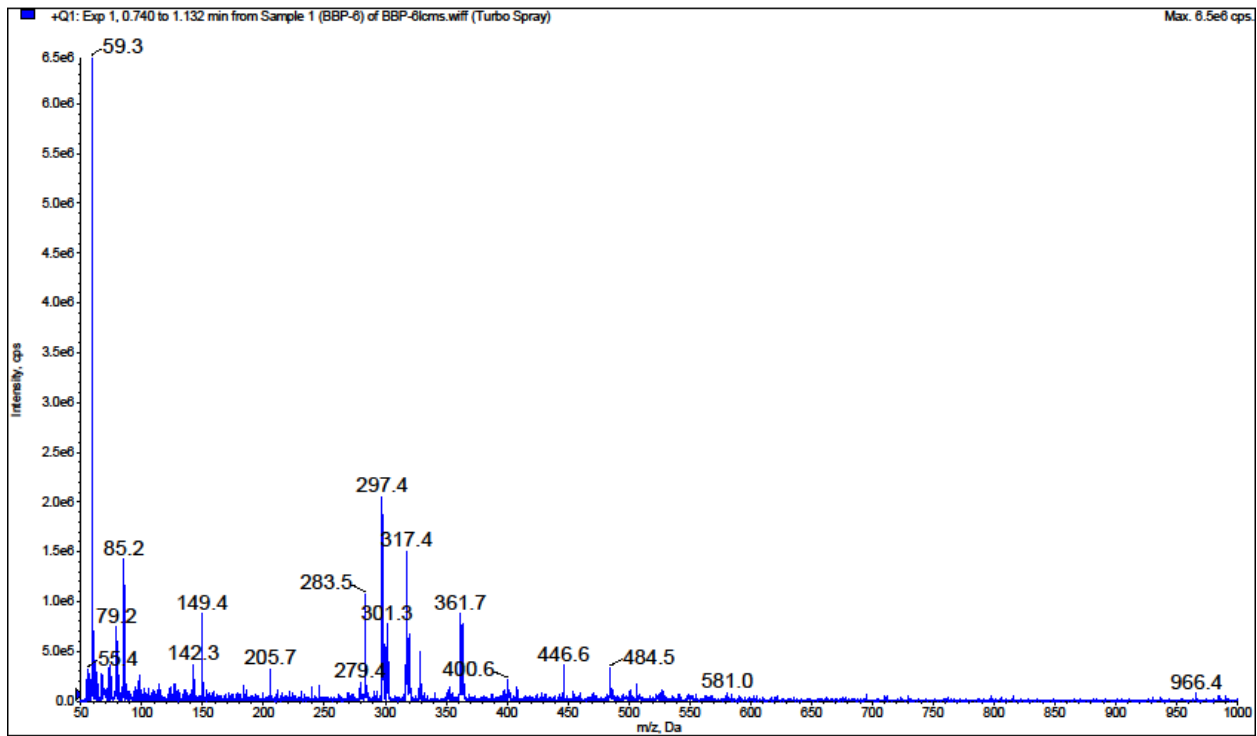




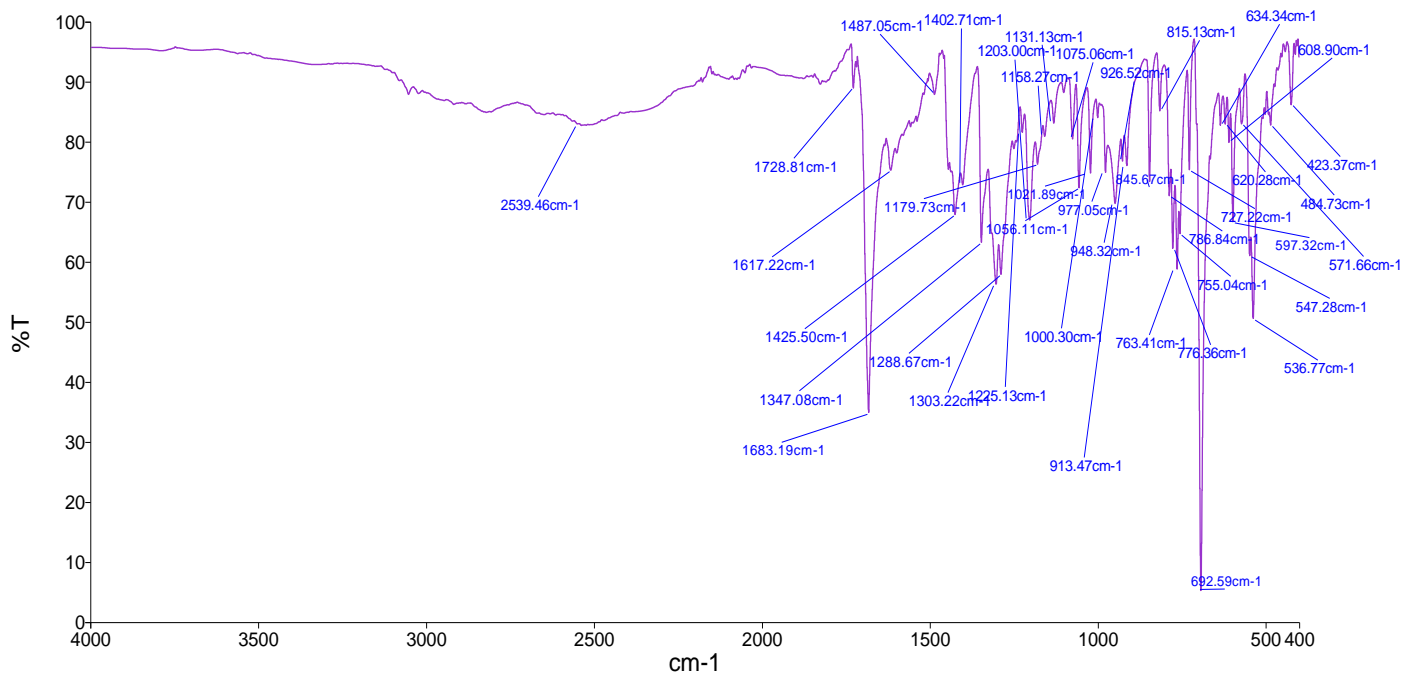
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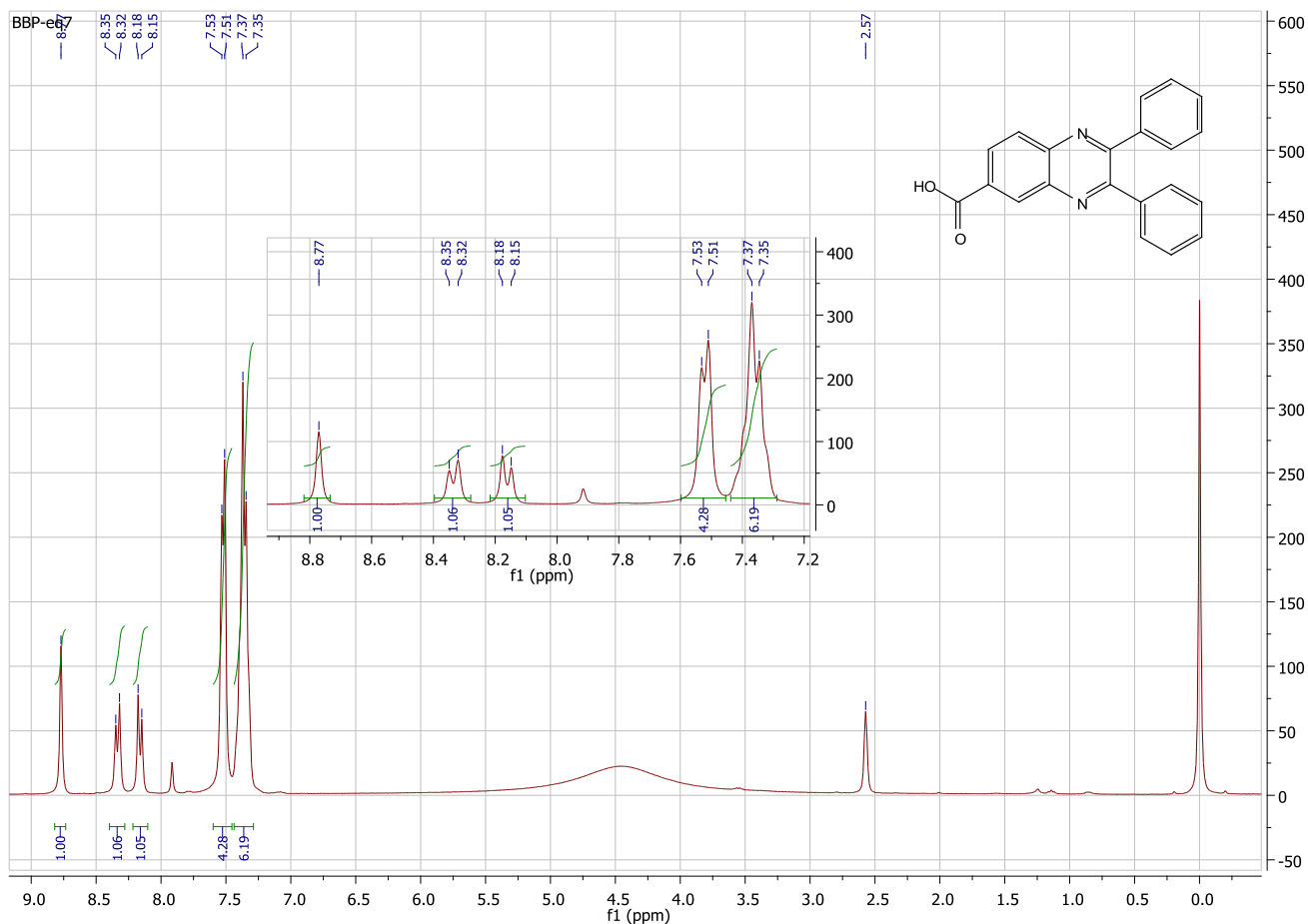
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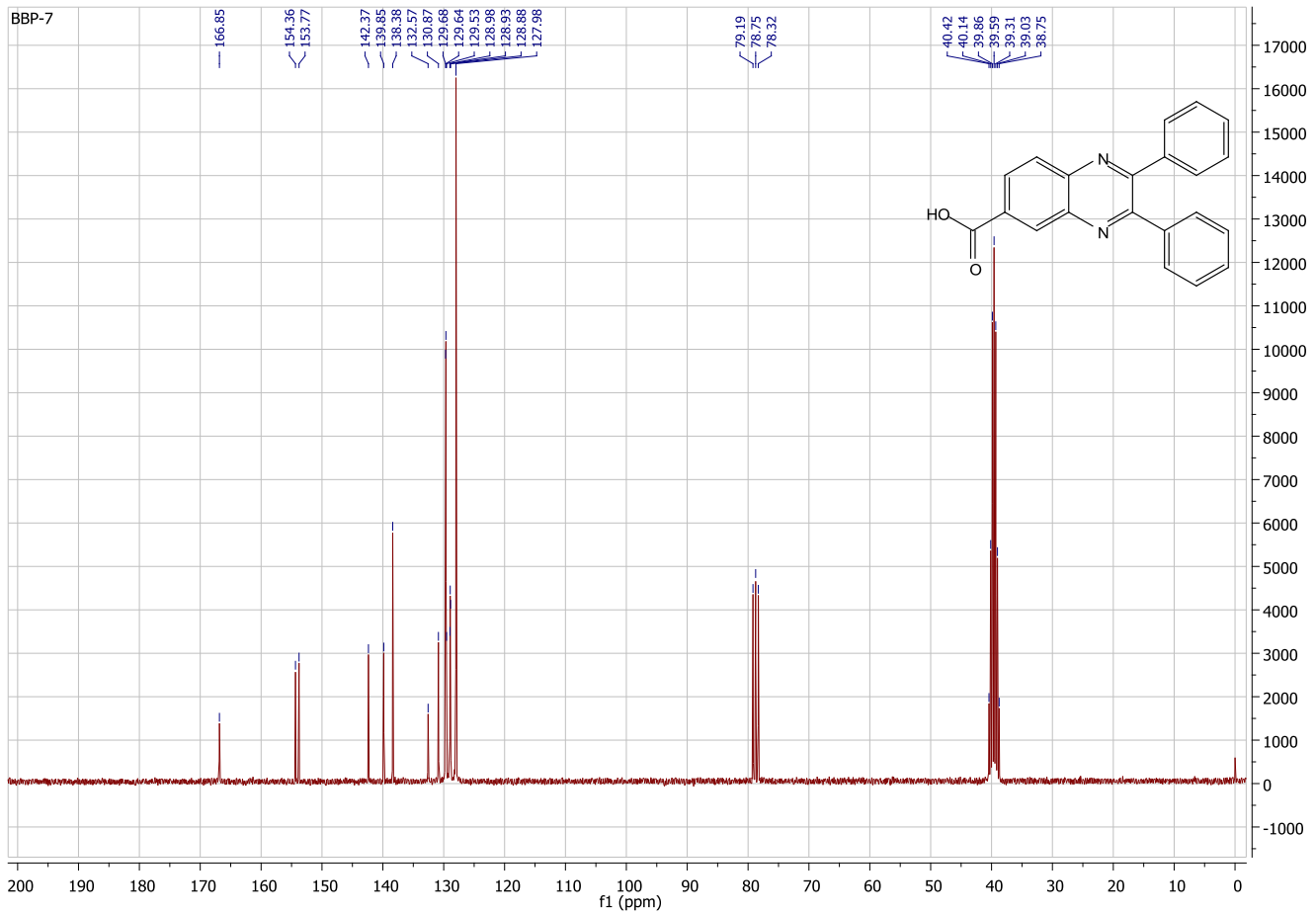


### 8) 2,3-Diphenylquinoxaline-6-carboxylic acid (3h):



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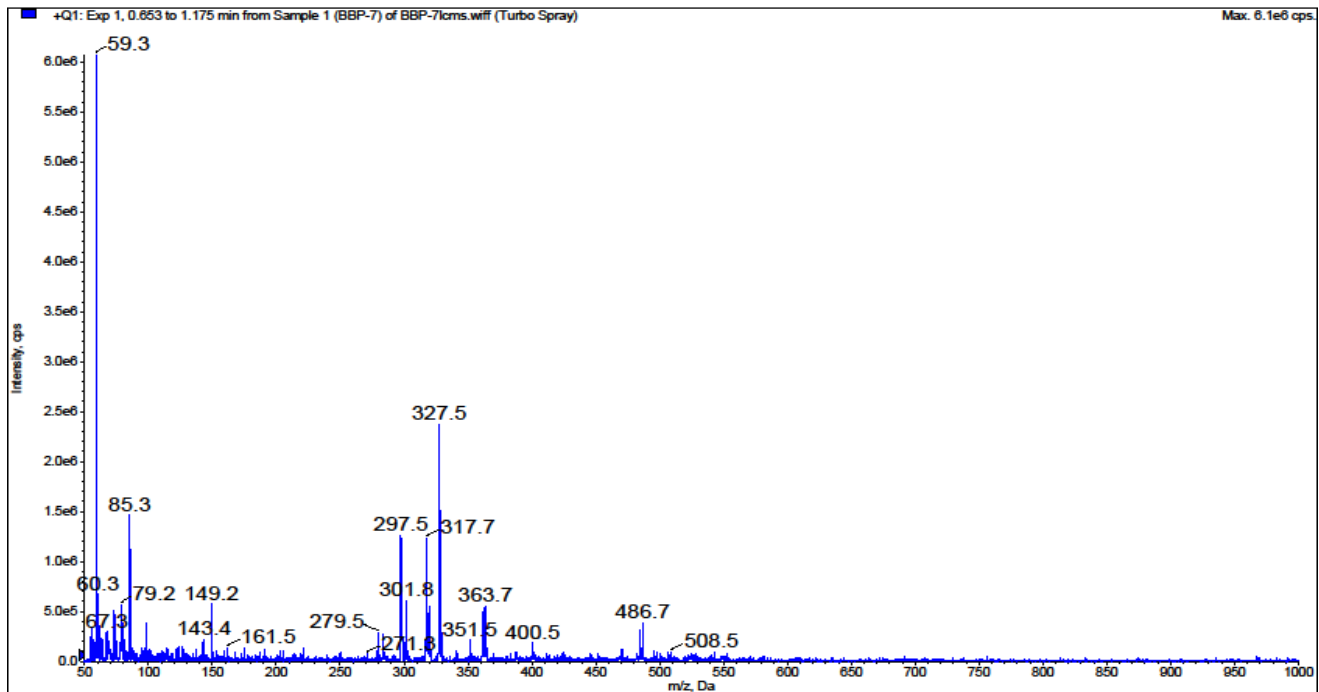




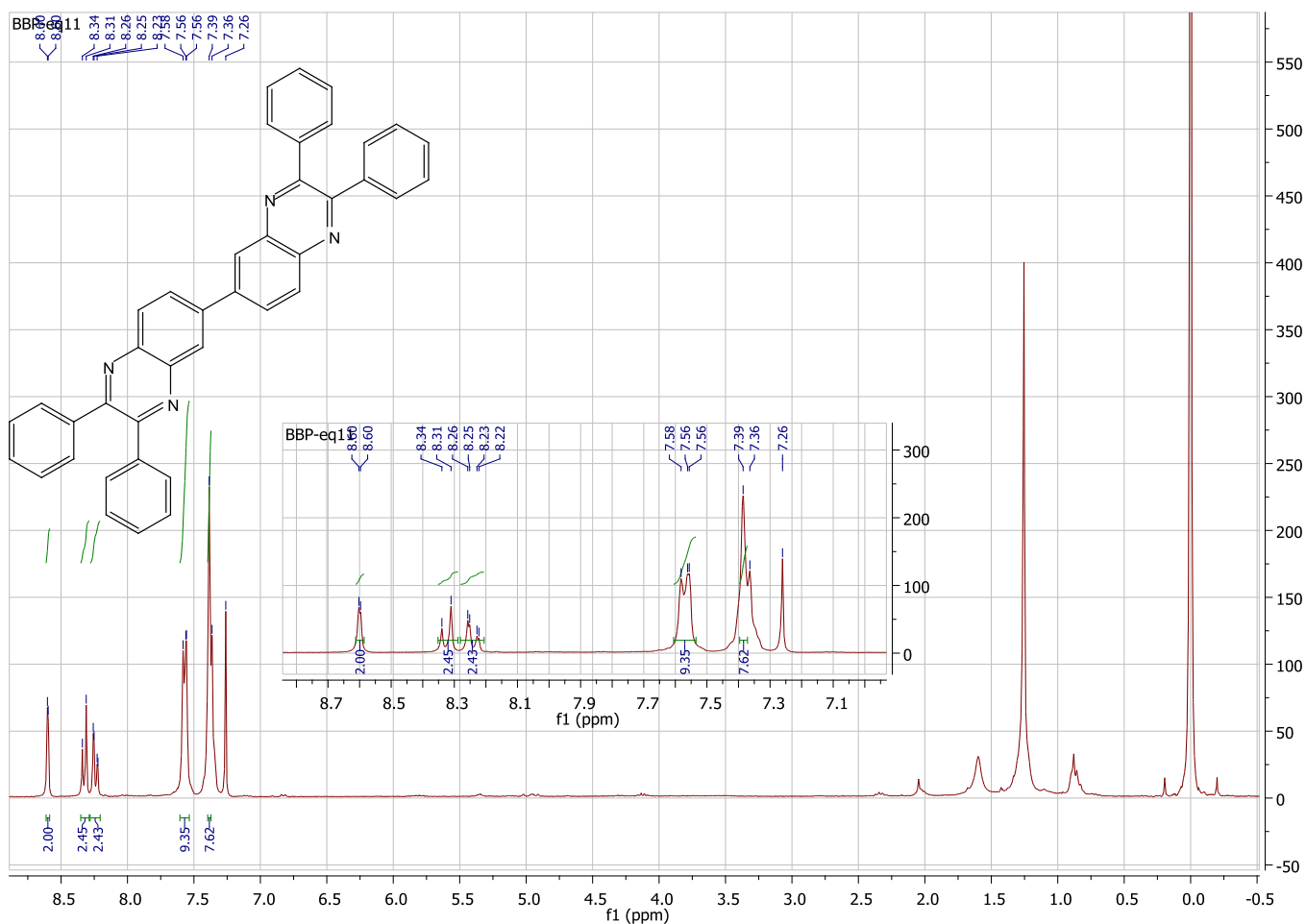
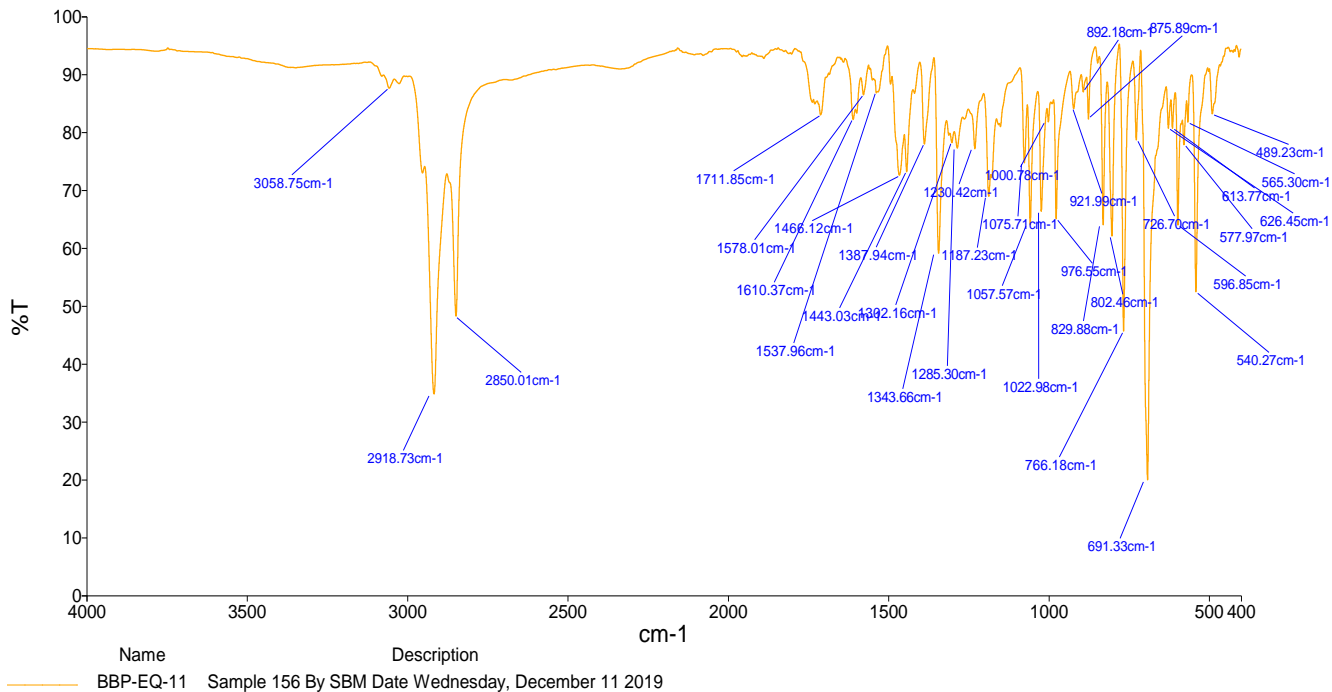
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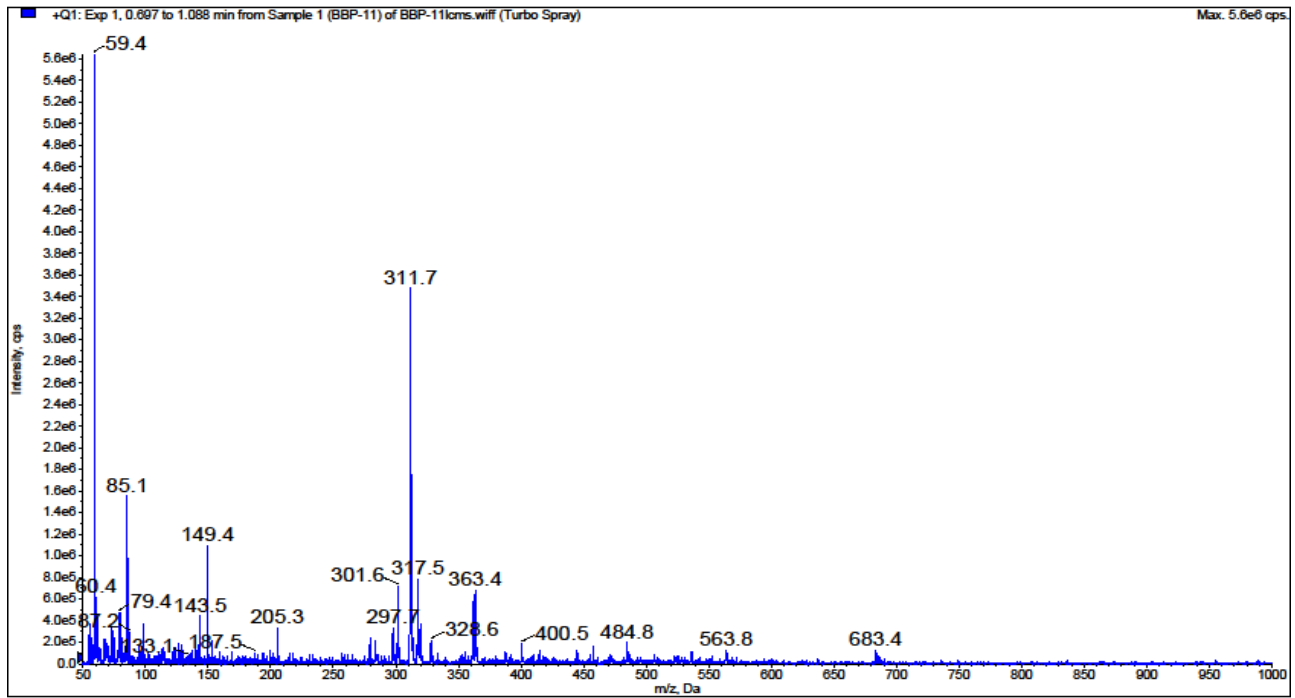
\*Department Of Chemistry

Printing Date: 06 January 2020

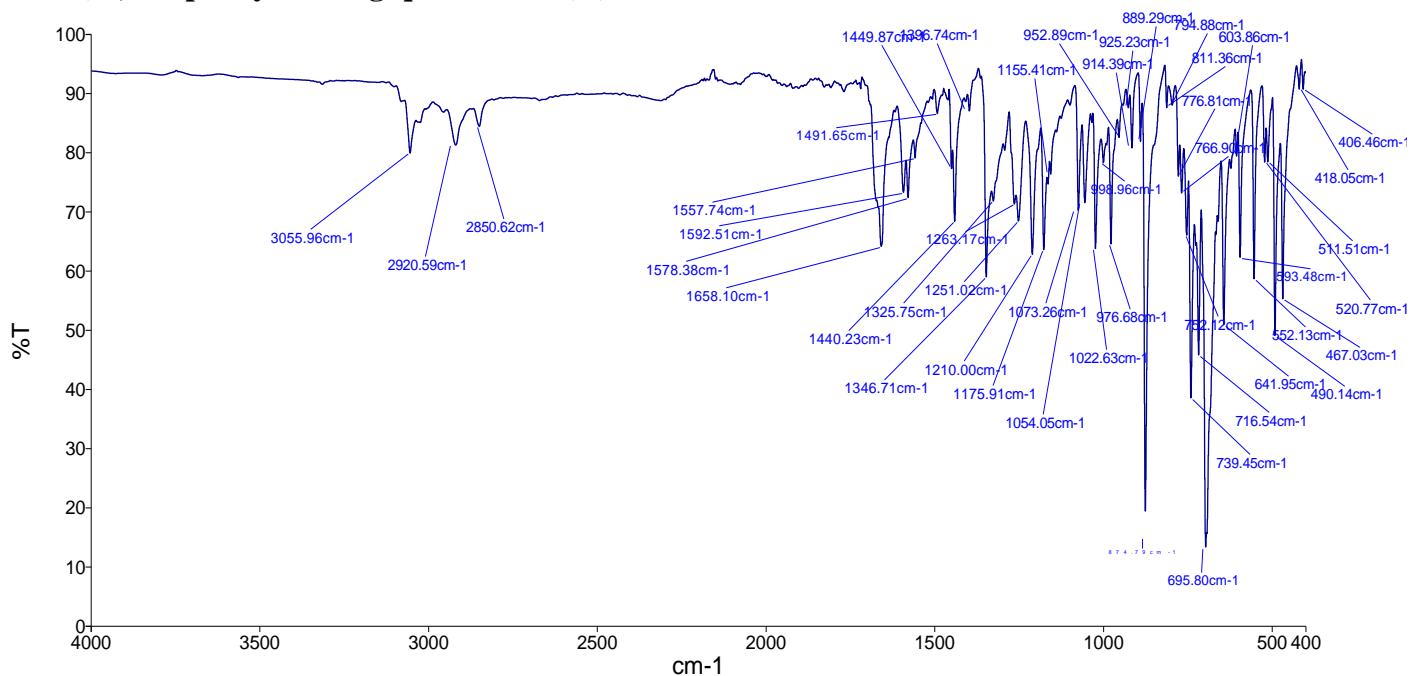


### 9) 2,2',3,3'-Tetraphenyl-6,6'-biquinoxaline (3k)

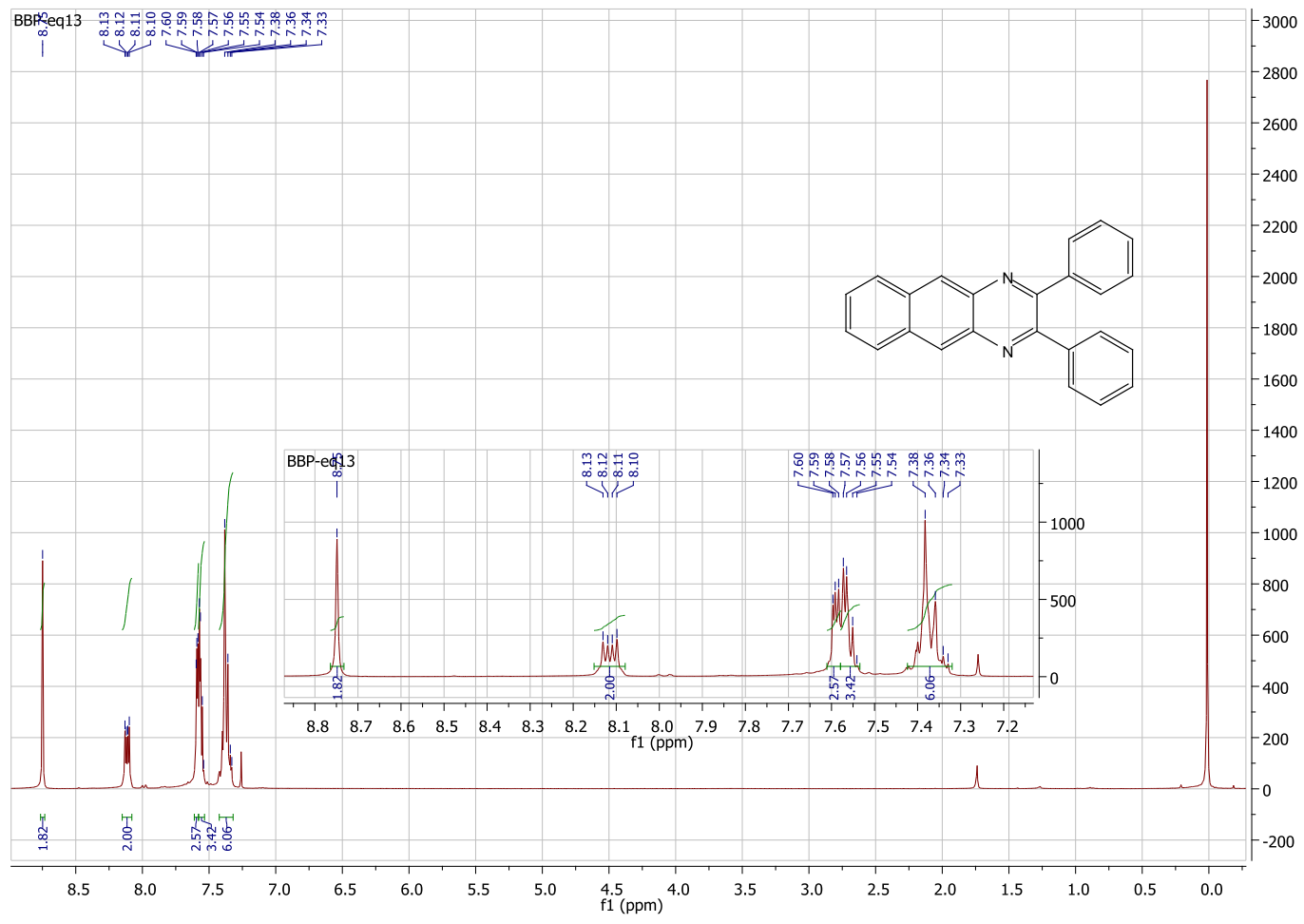


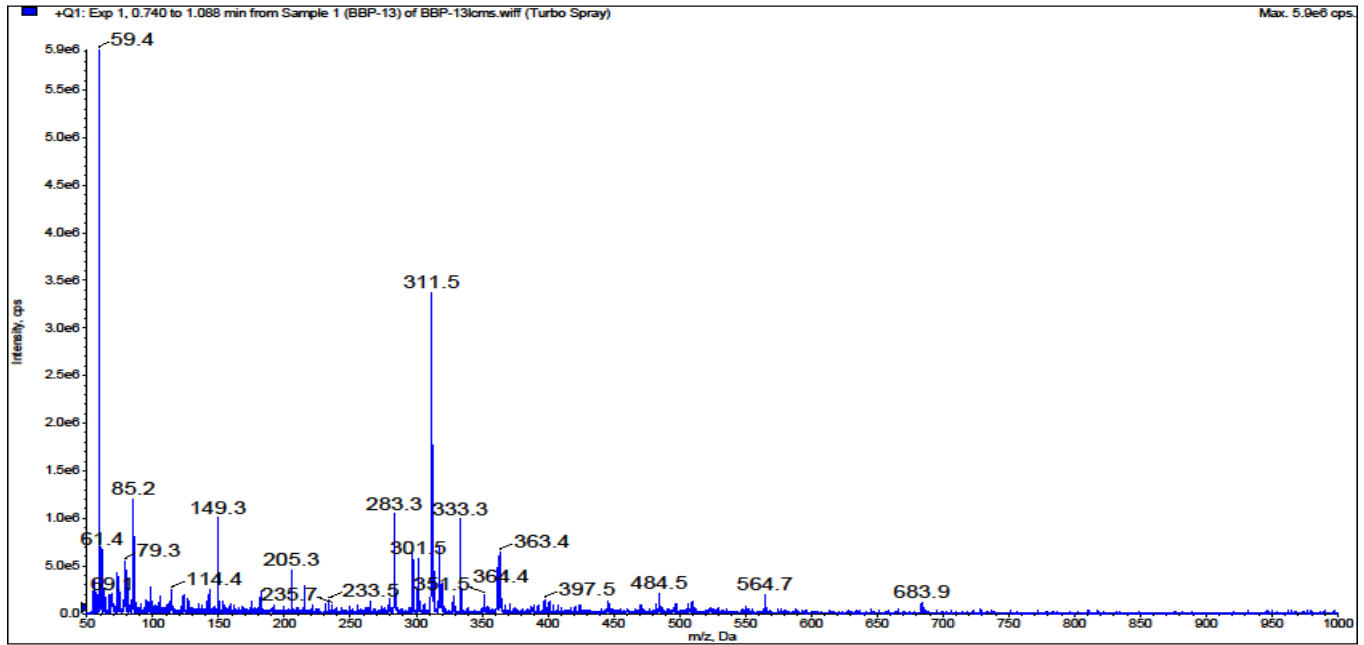


# 10) 2,3-Diphenylbenzo[g]quinoxaline (3I):

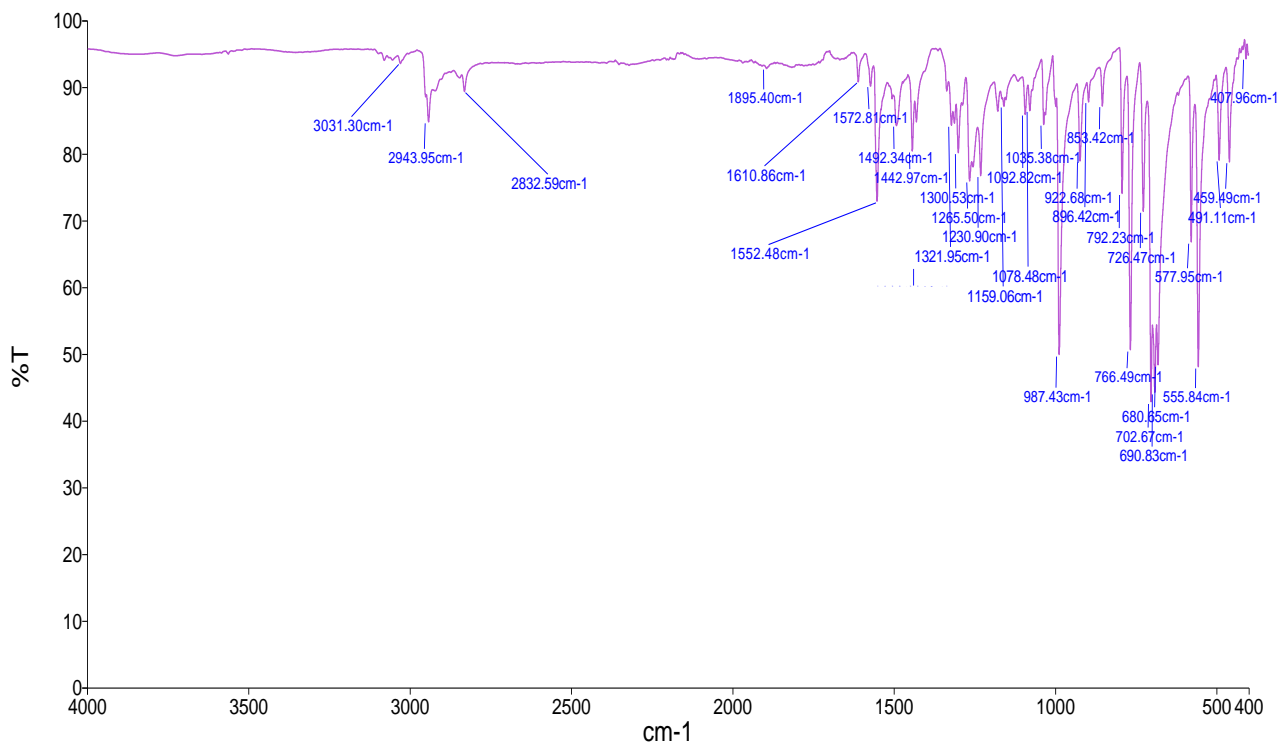


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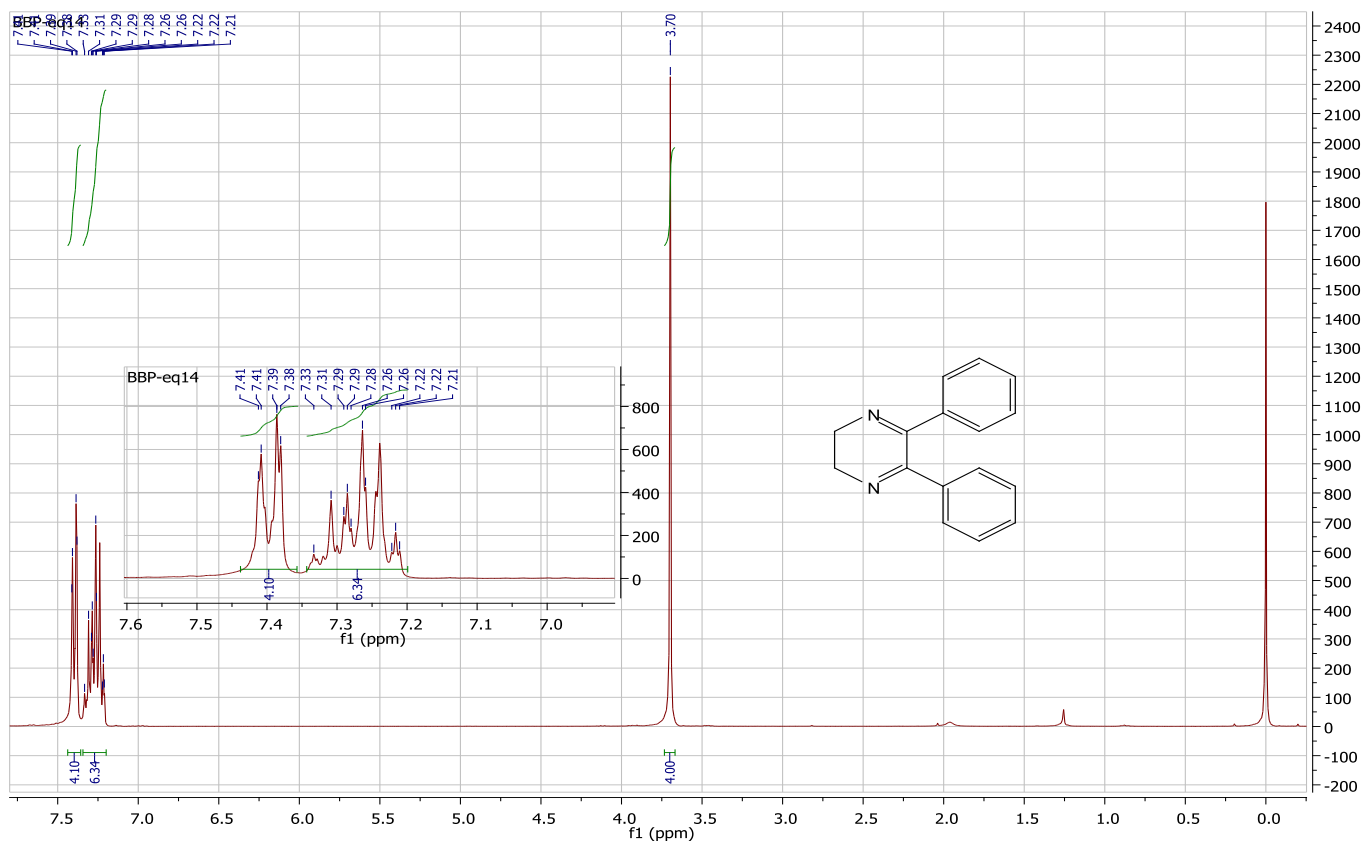


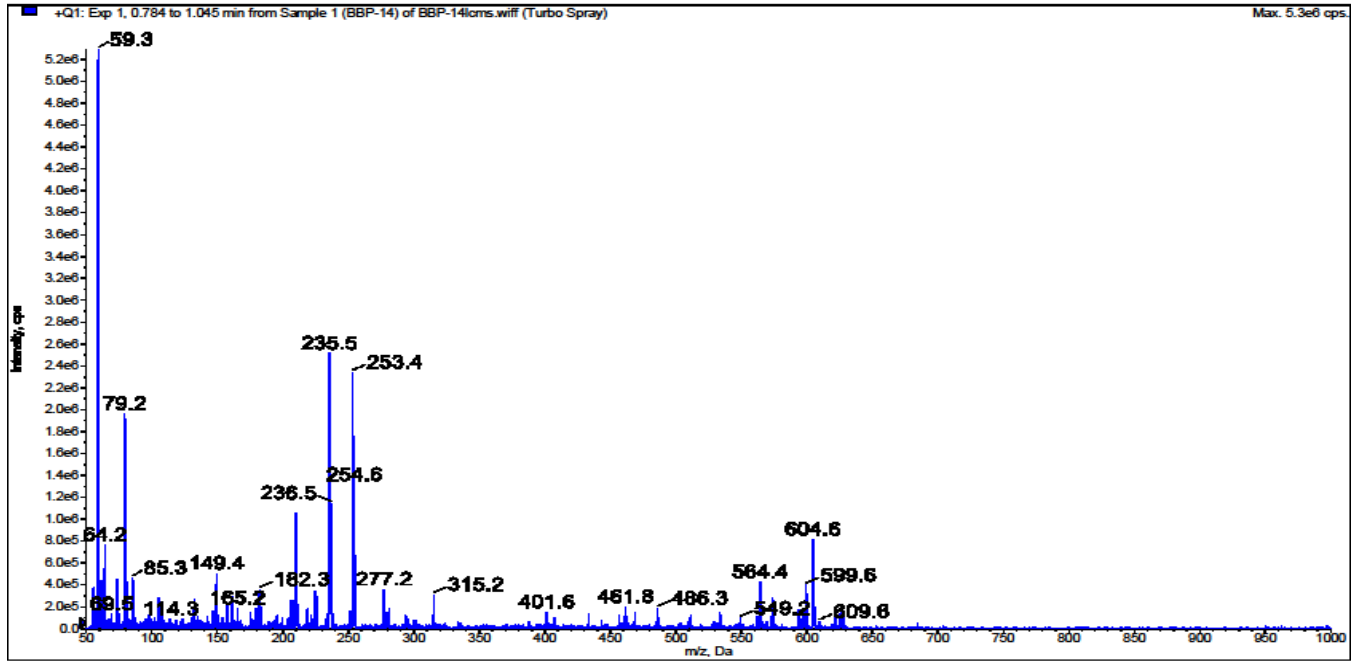


# 11) 5,6-Diphenyl-2,3-dihydropyrazine (3m):

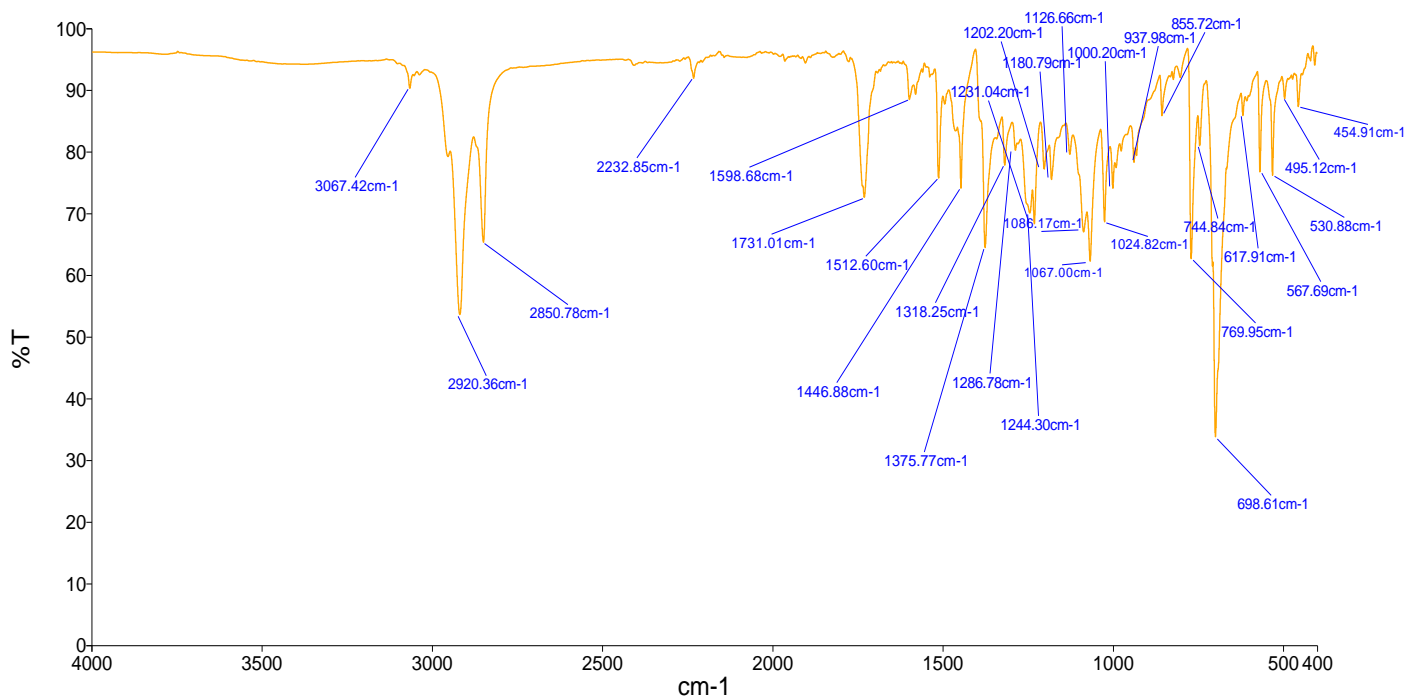


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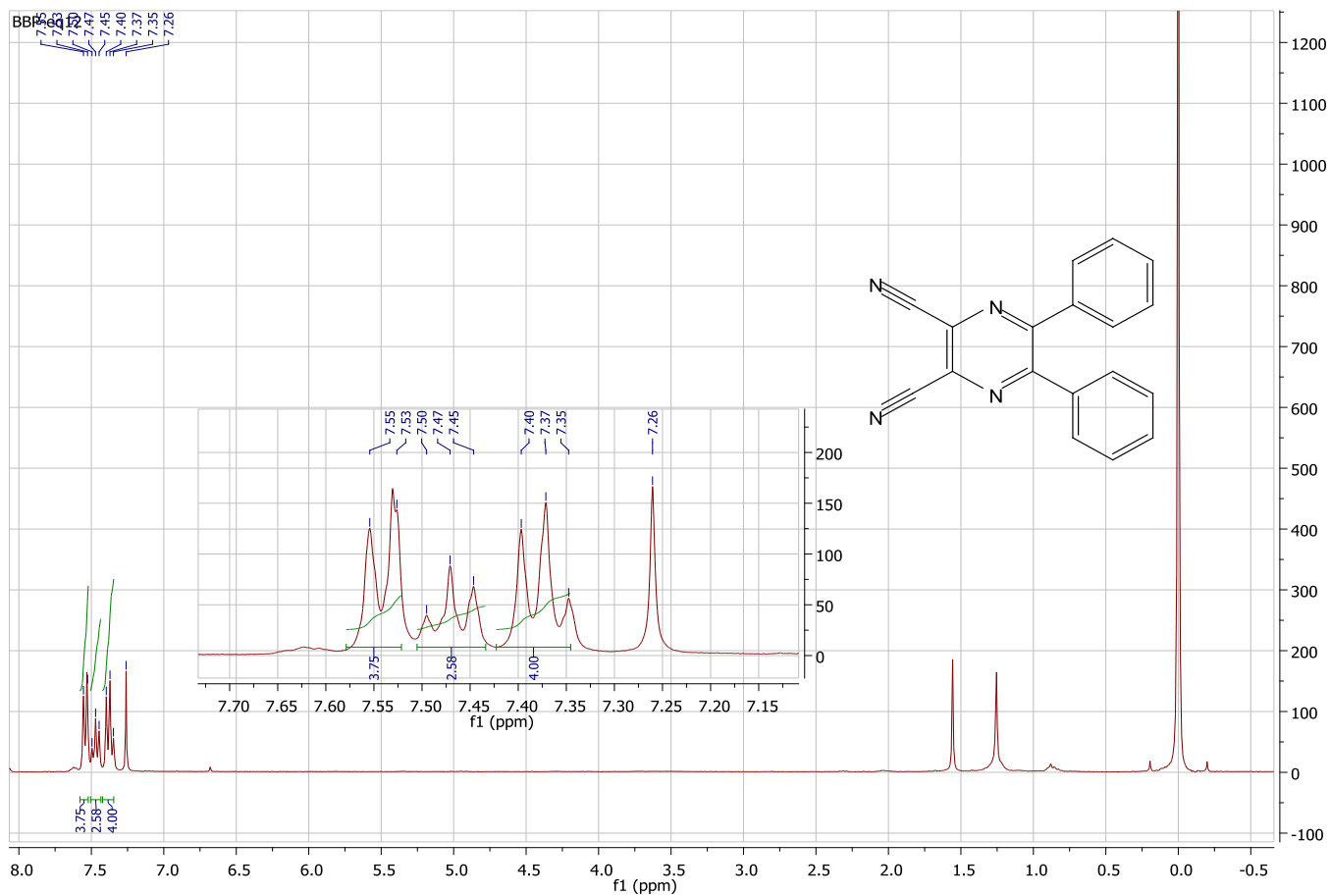


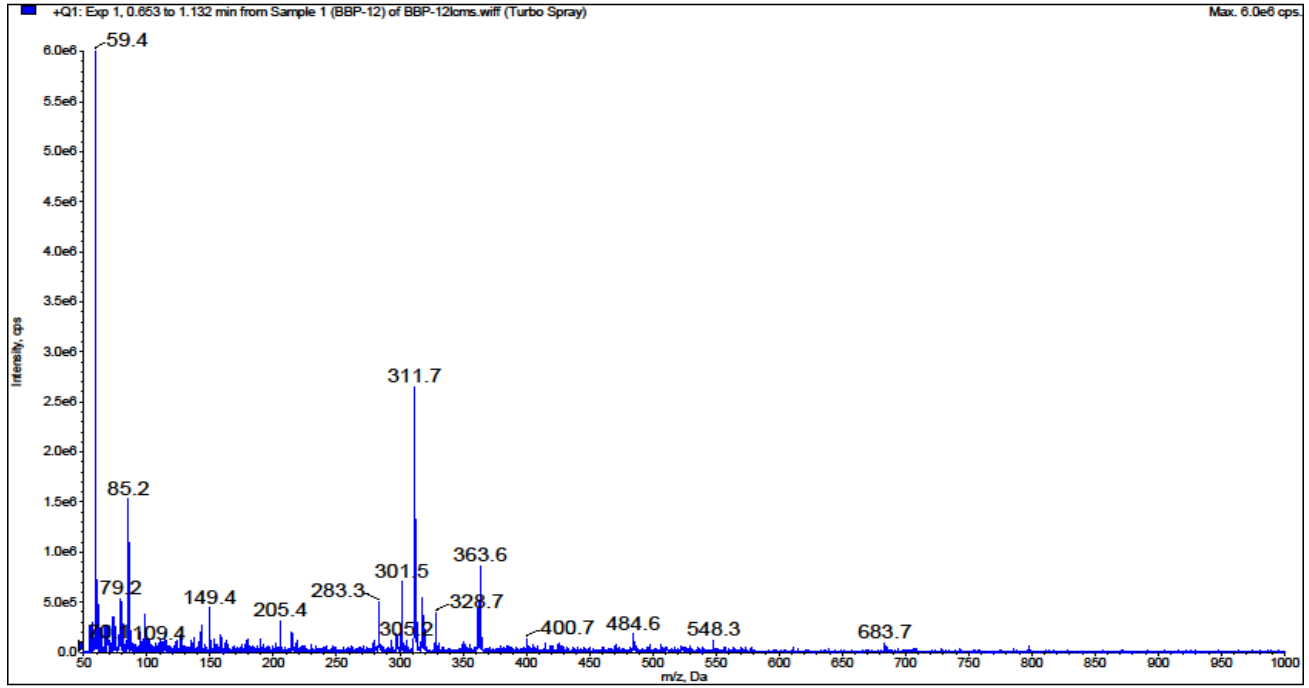


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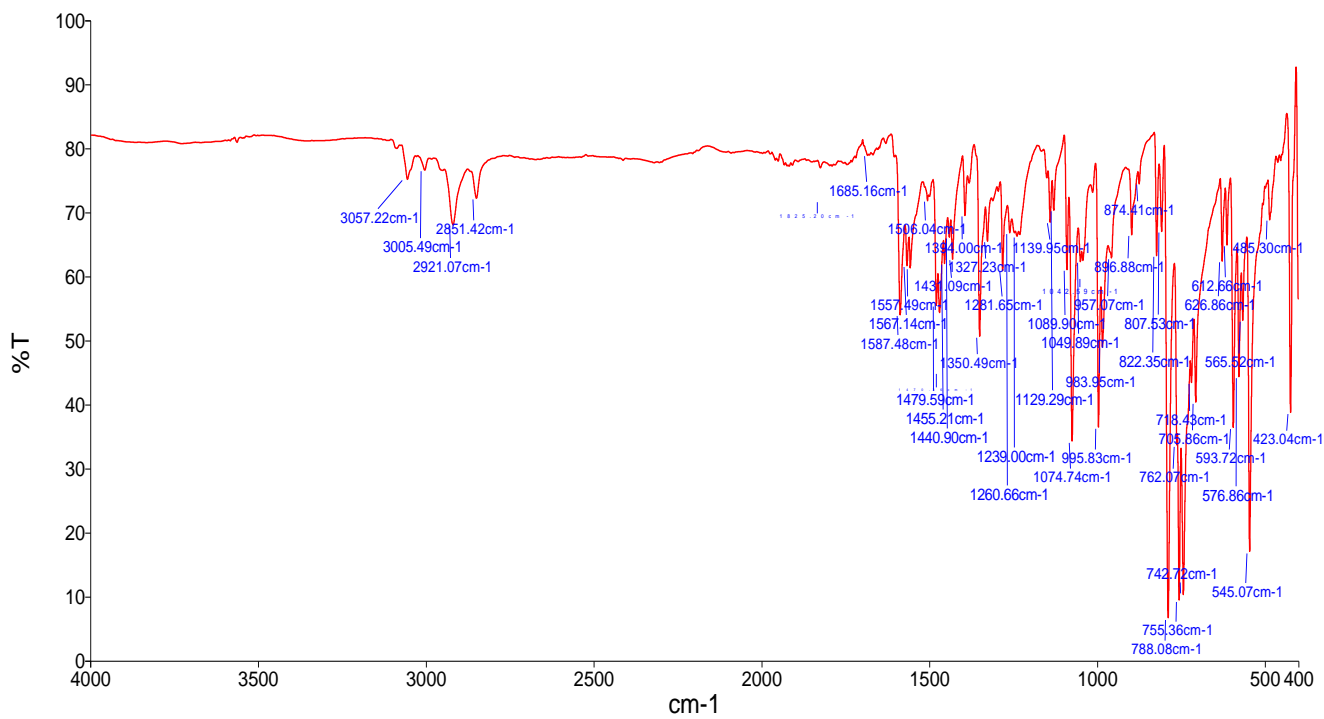


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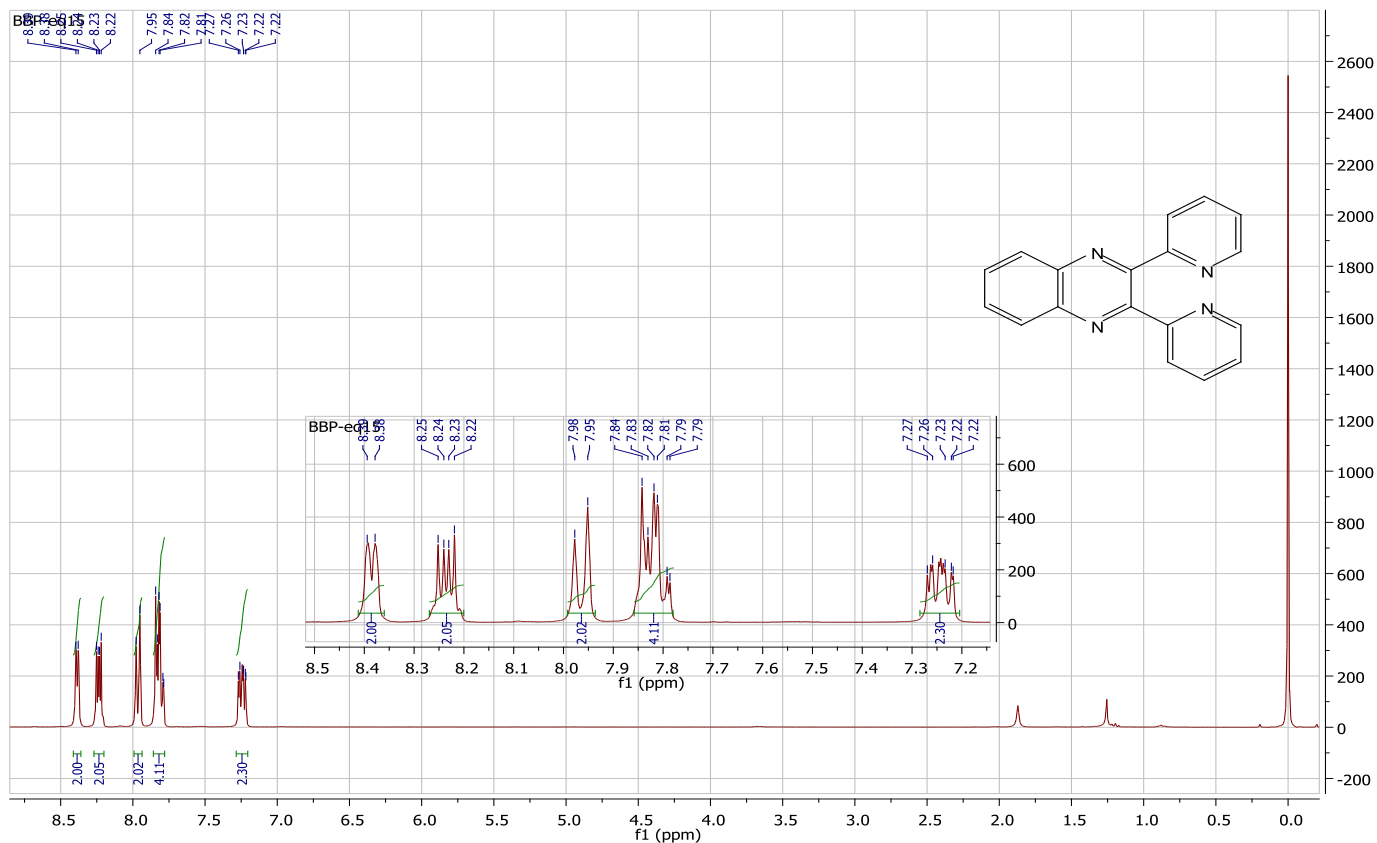


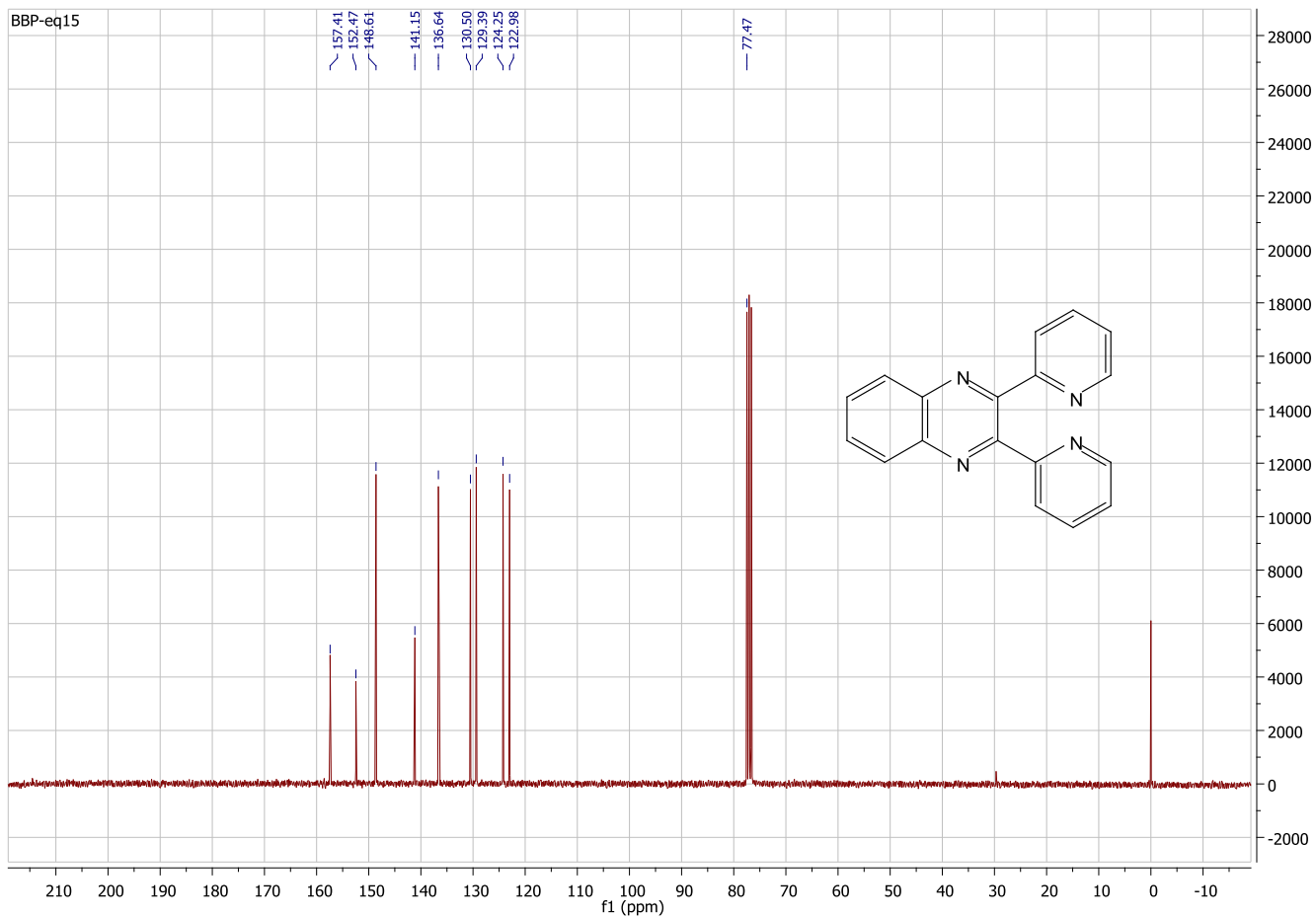


### 13) 2,3-Di(pyridin-2-yl)quinoxaline (3o):



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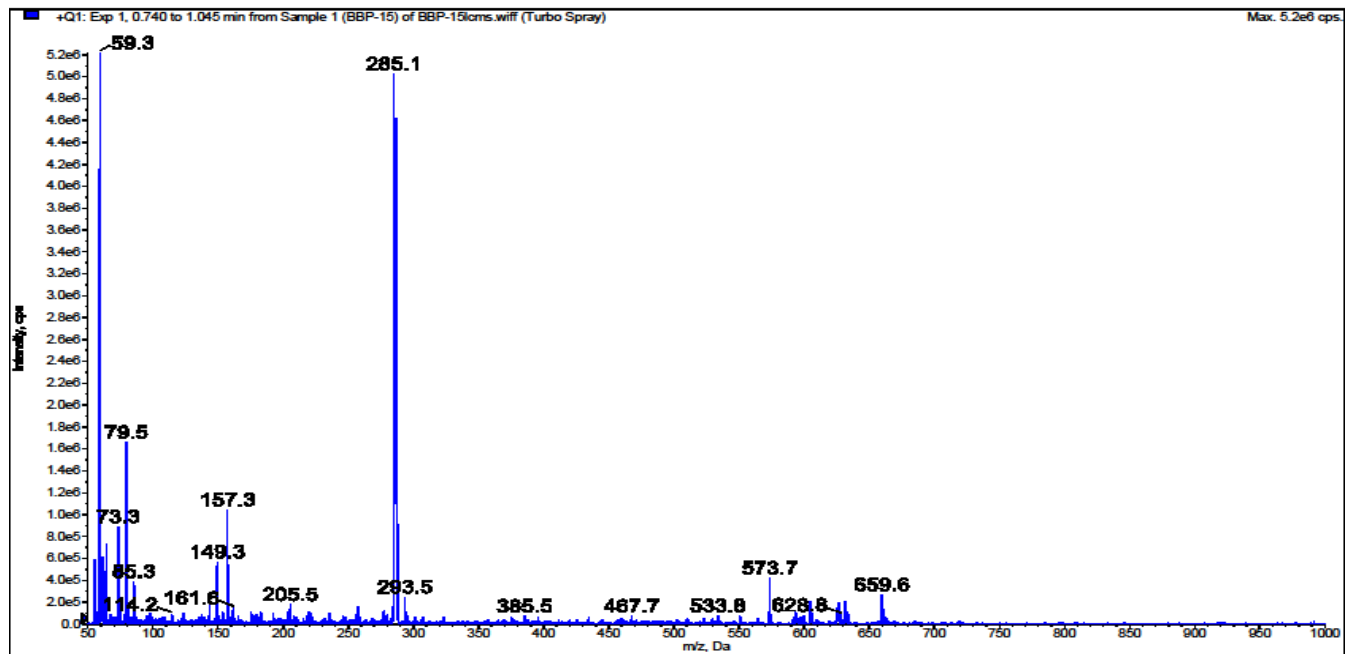




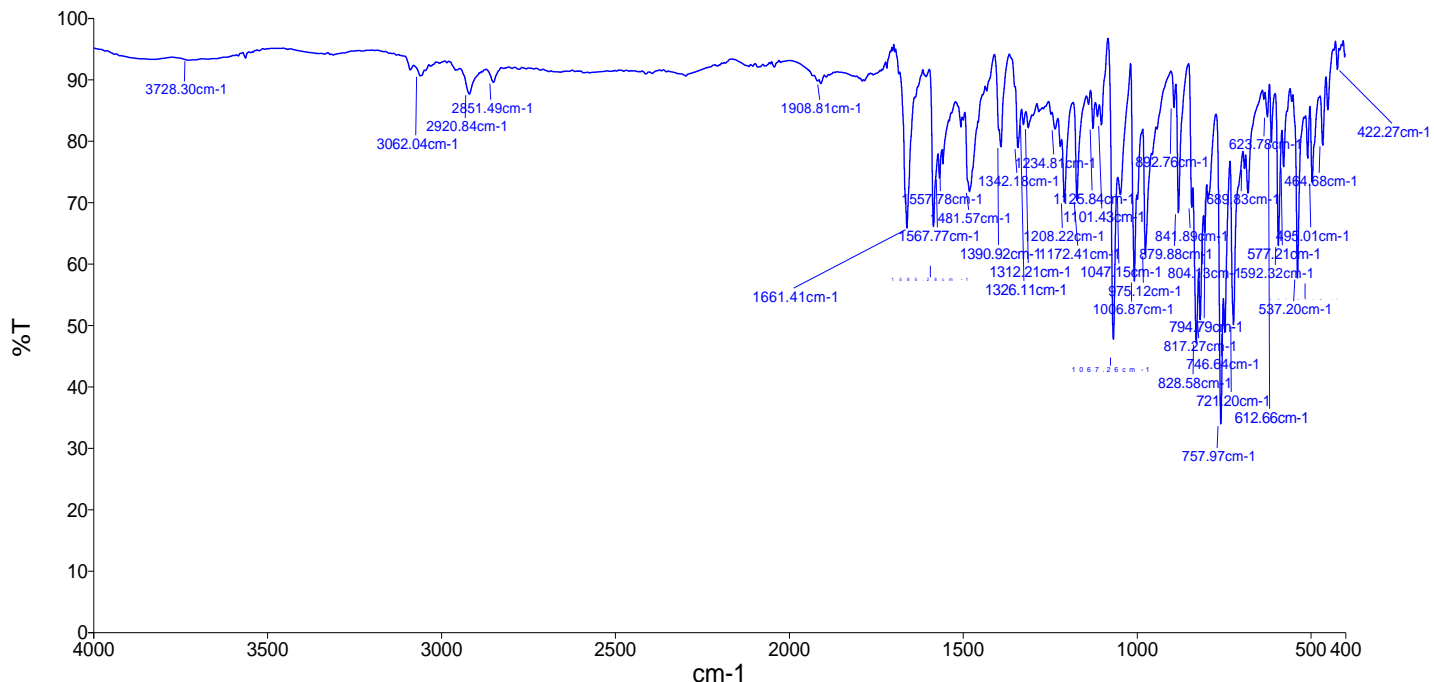
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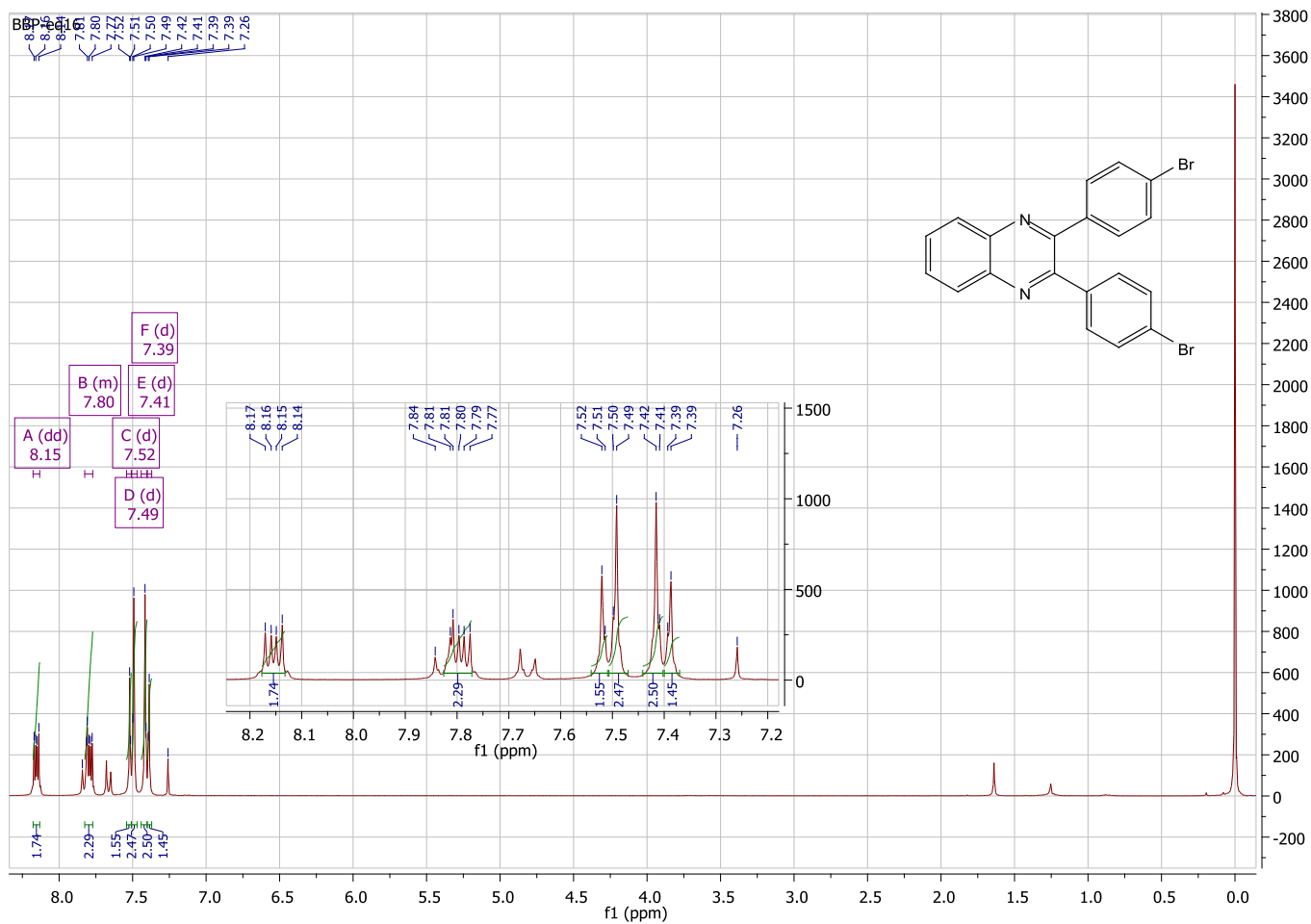
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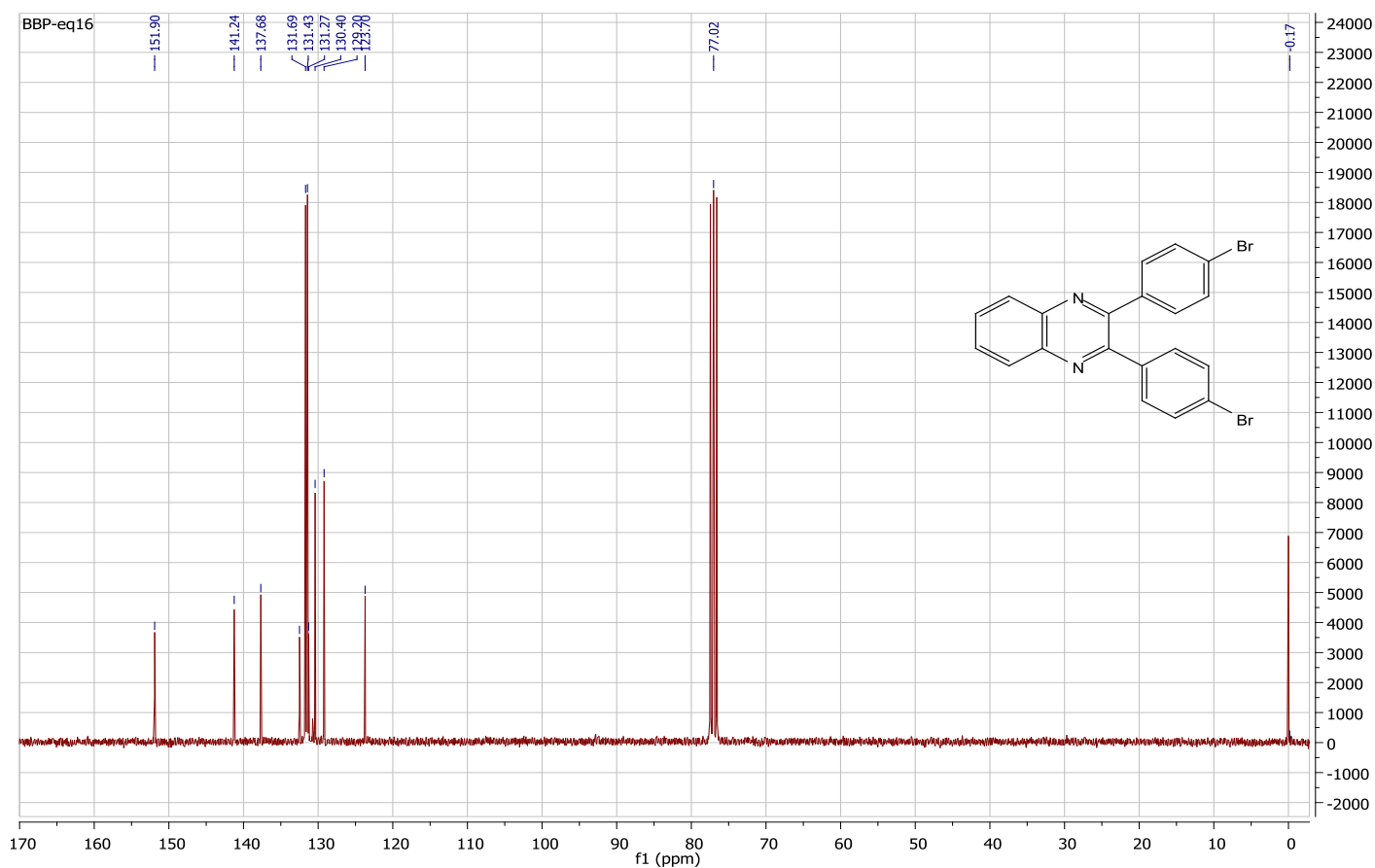


**14) 2,3-Bis(4-bromophenyl)quinoxaline (3p):**



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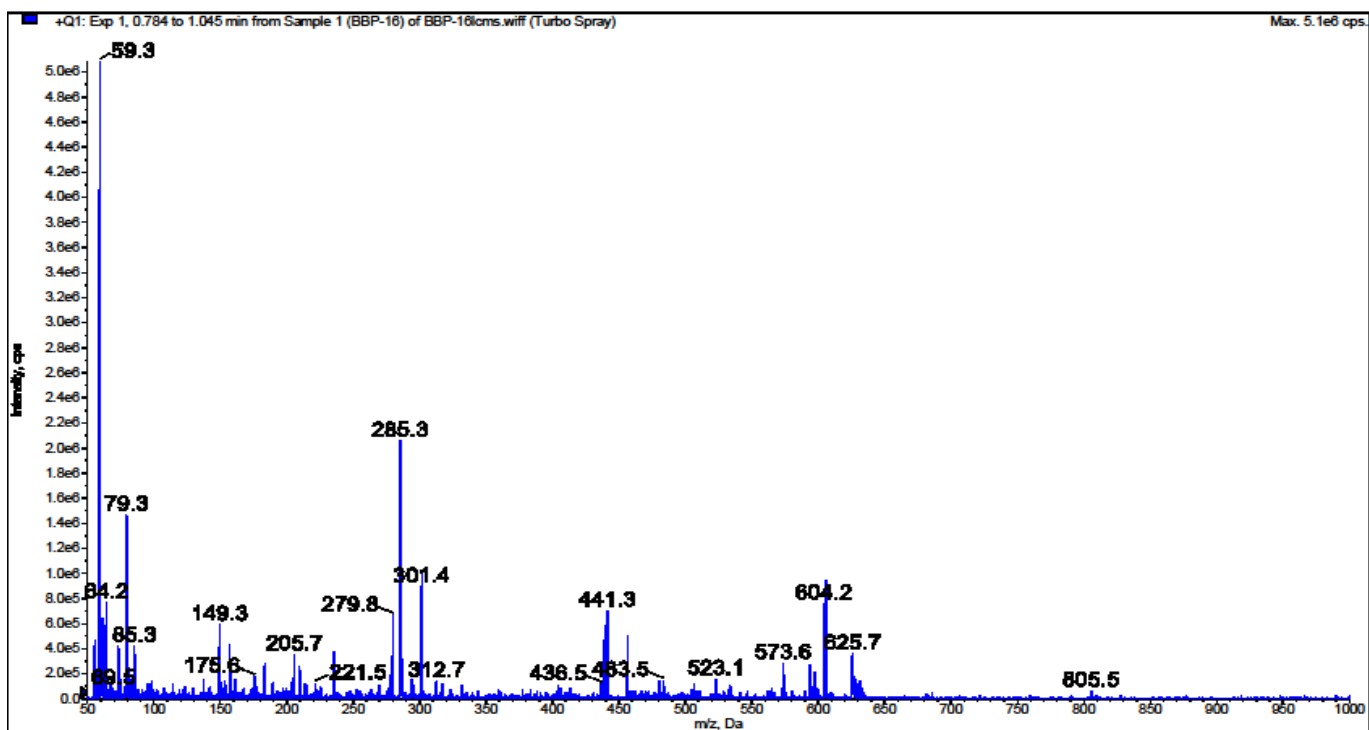




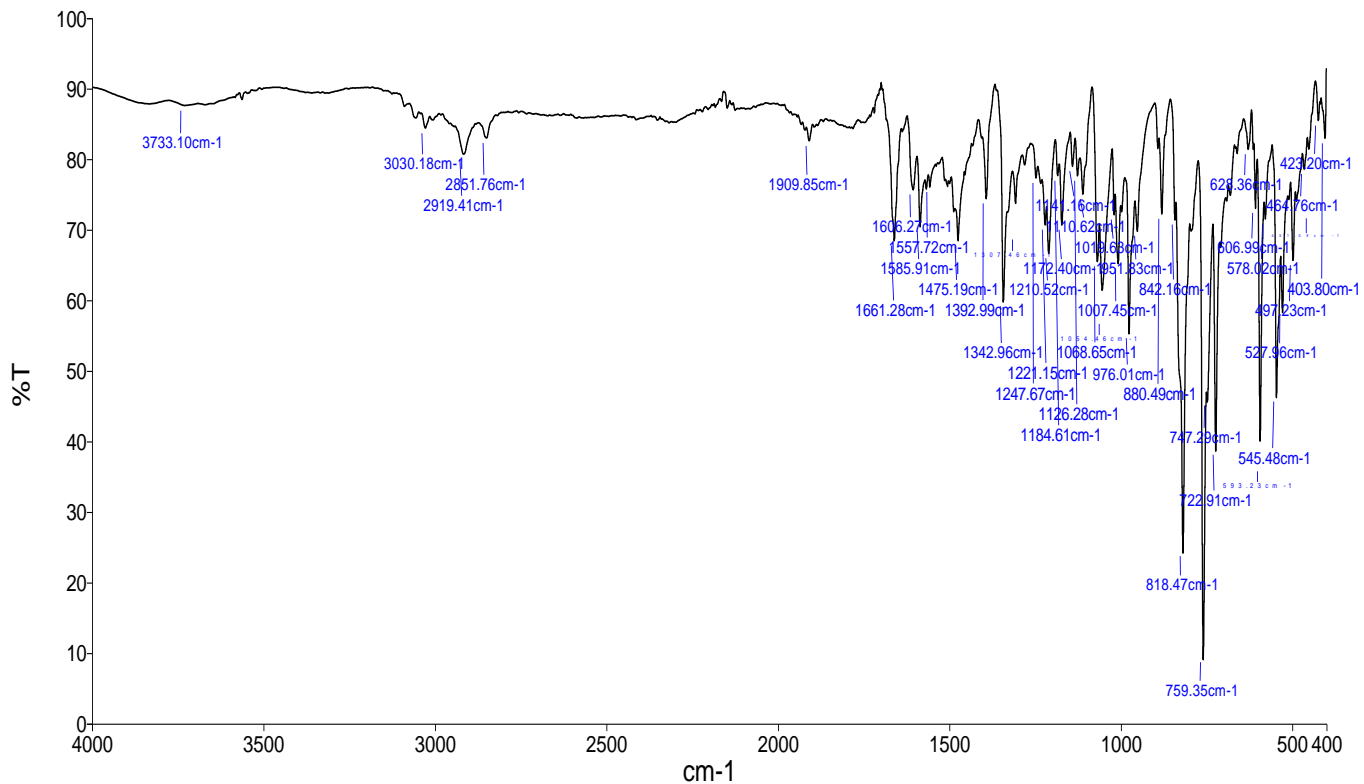
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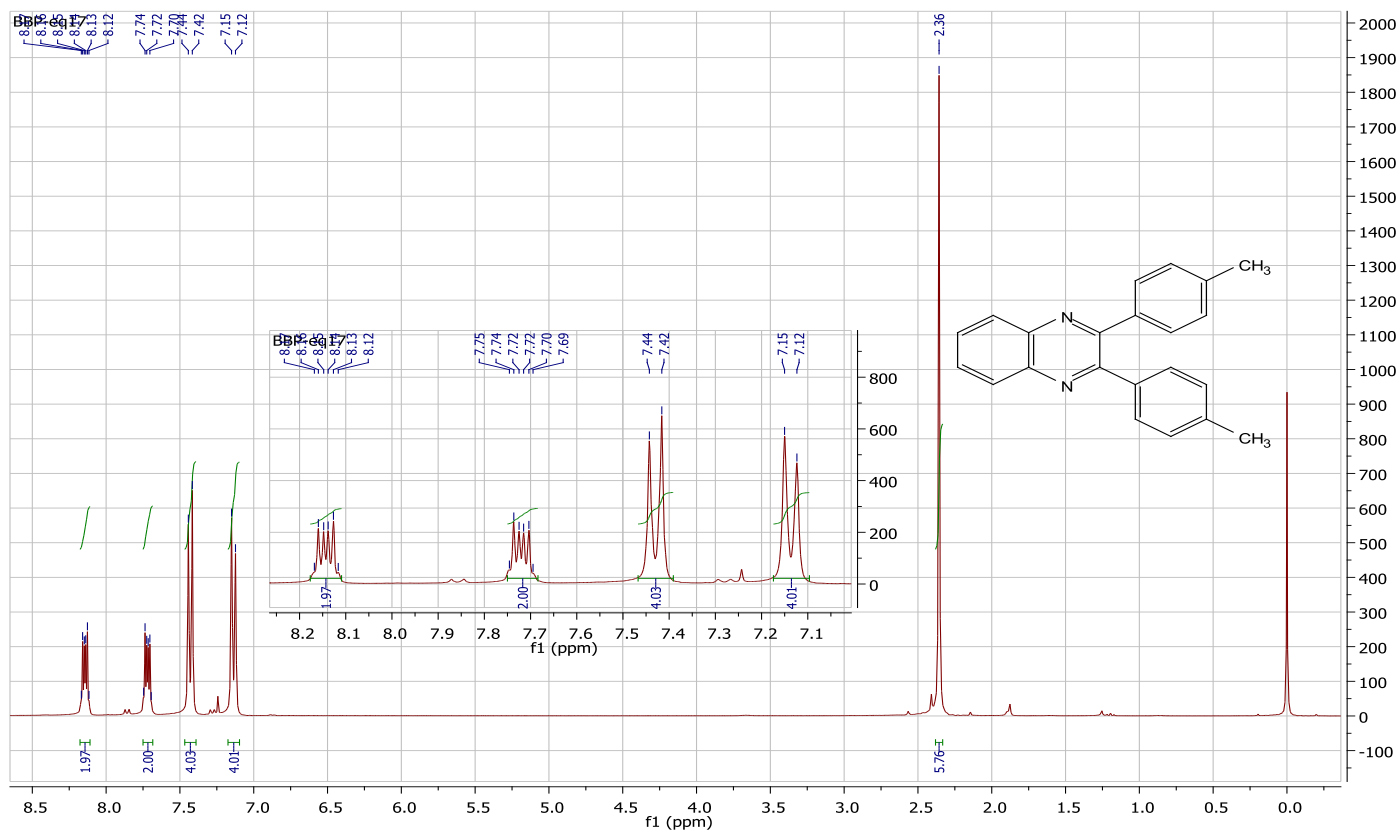


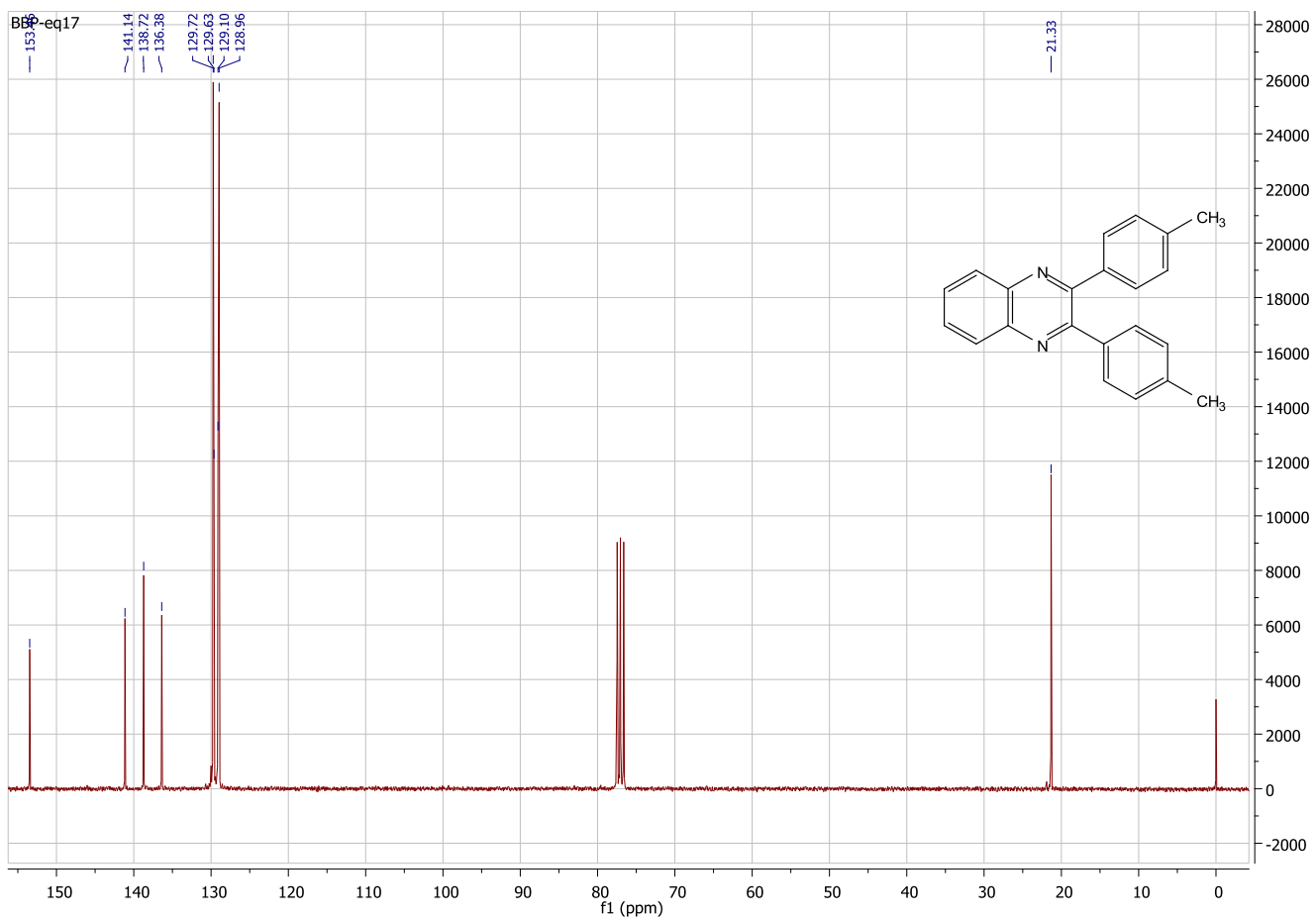
**15) 2,3-Di-p-tolylquinoxaline (3q):**



Name Description

BBP-EQ-17\_001 Sample 159 By SBM Date Thursday, January 09 2020

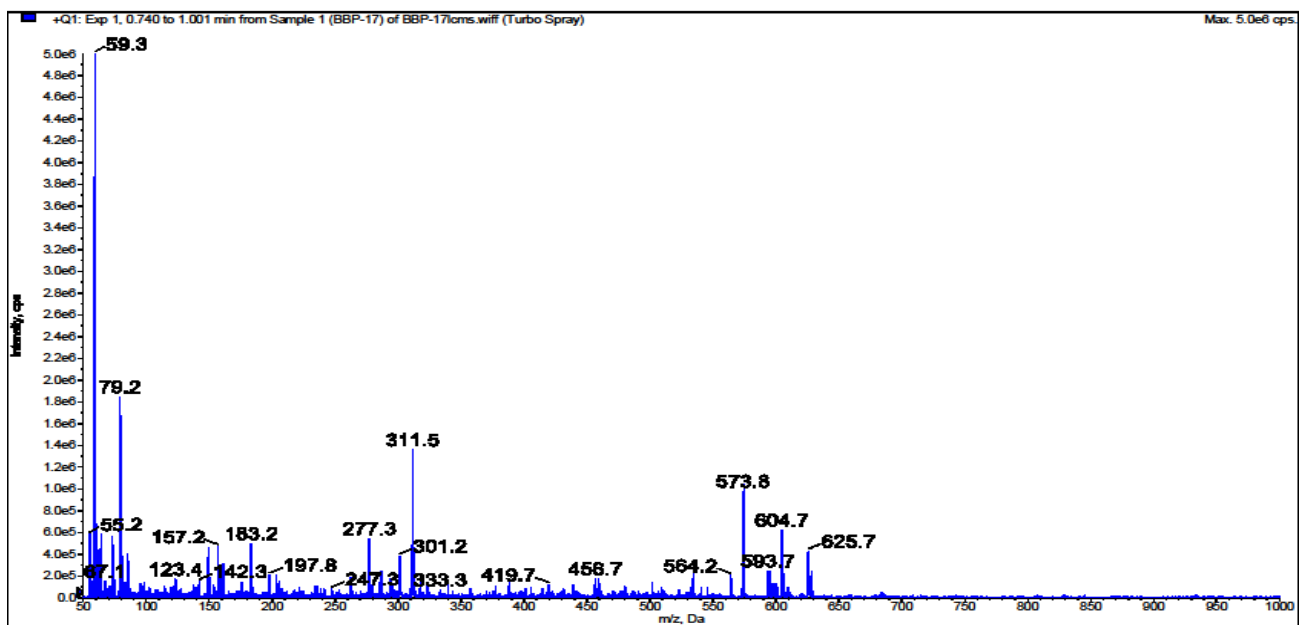




Acq. Date: Tuesday, January 14, 2020  
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Printing Date: 15 January 2020



## 2. References:

1. J. Cai, P. Zou, Q. Pan, and W. Zhang, *Tetrahedron Lett.*, 2008, **49**, 7386.
2. A. Kamal, S. Babu, A. Hussaini, R. Mahesh, and A. Alarifi, *Tetrahedron Lett.*, 2015, **56**, 2803.