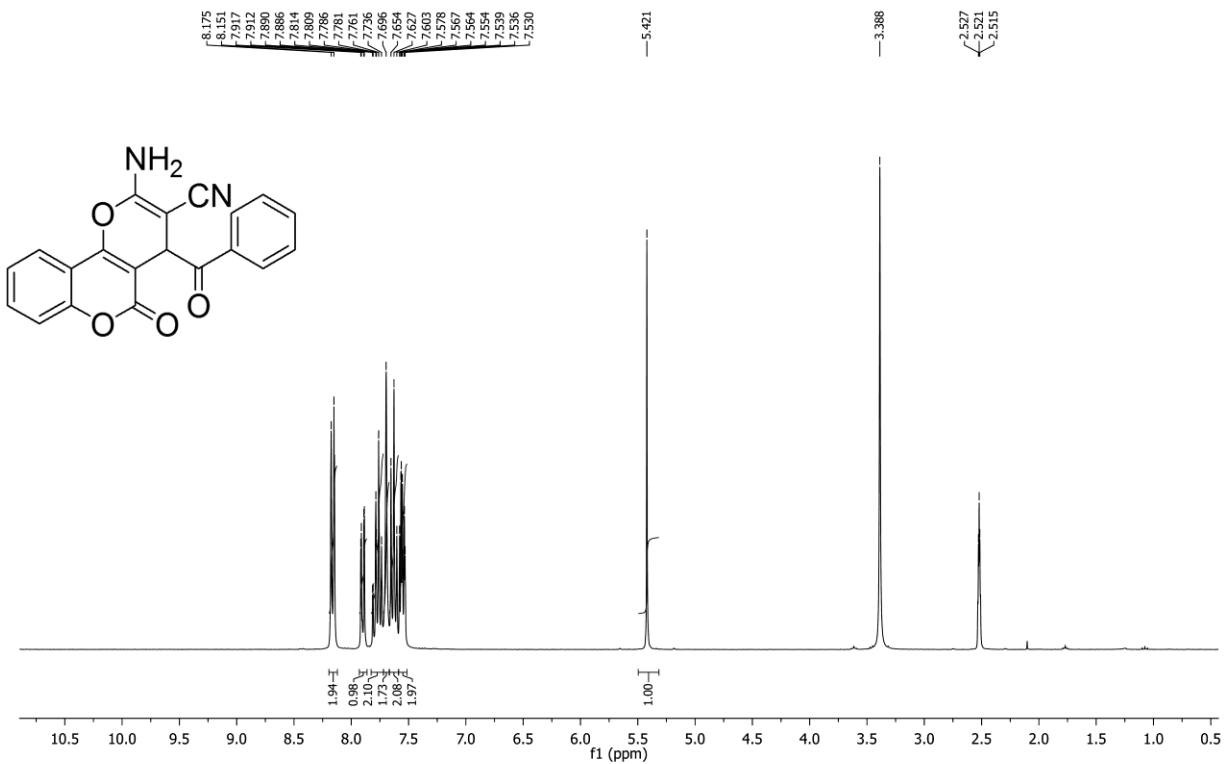
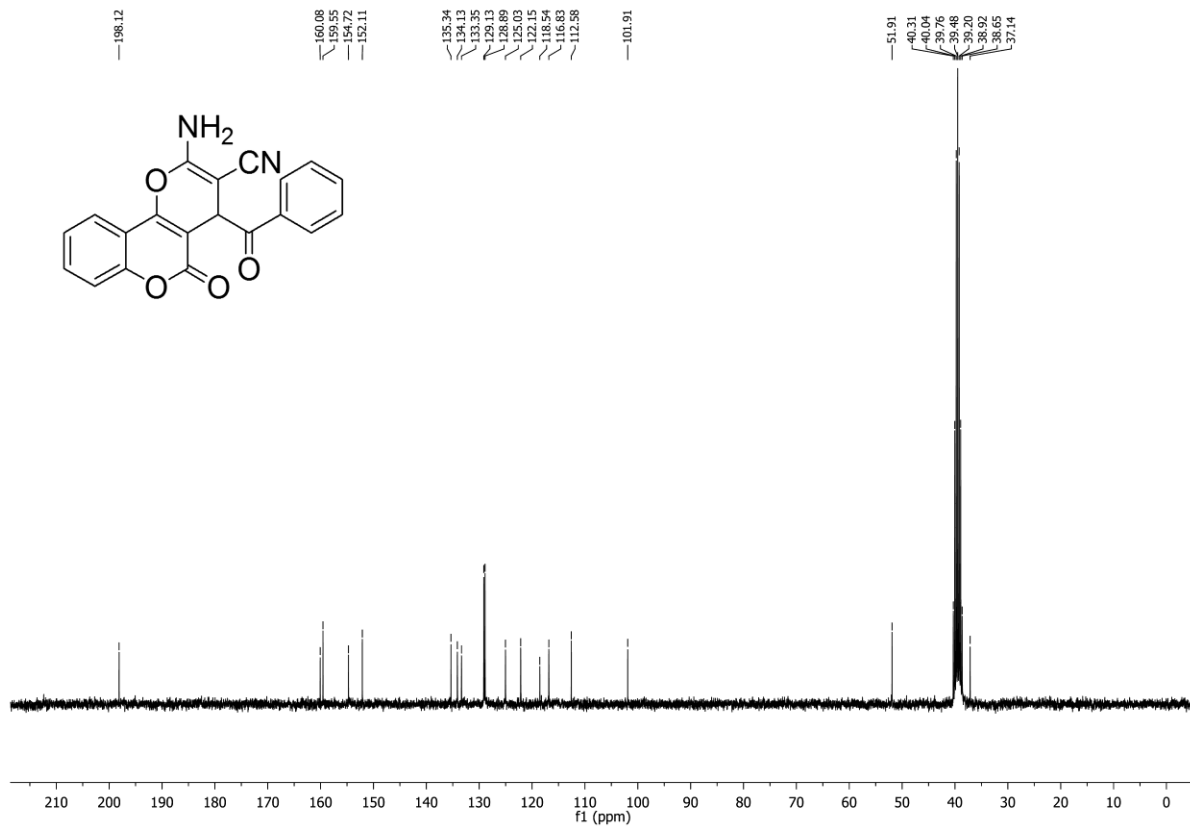
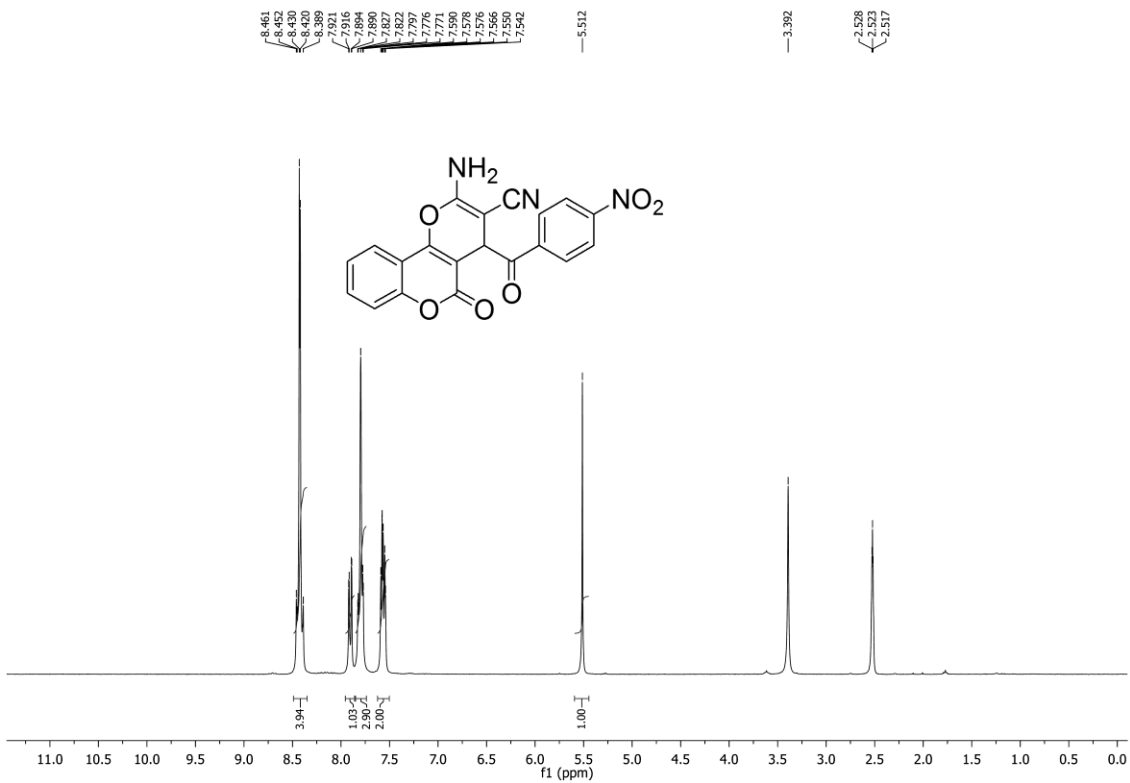
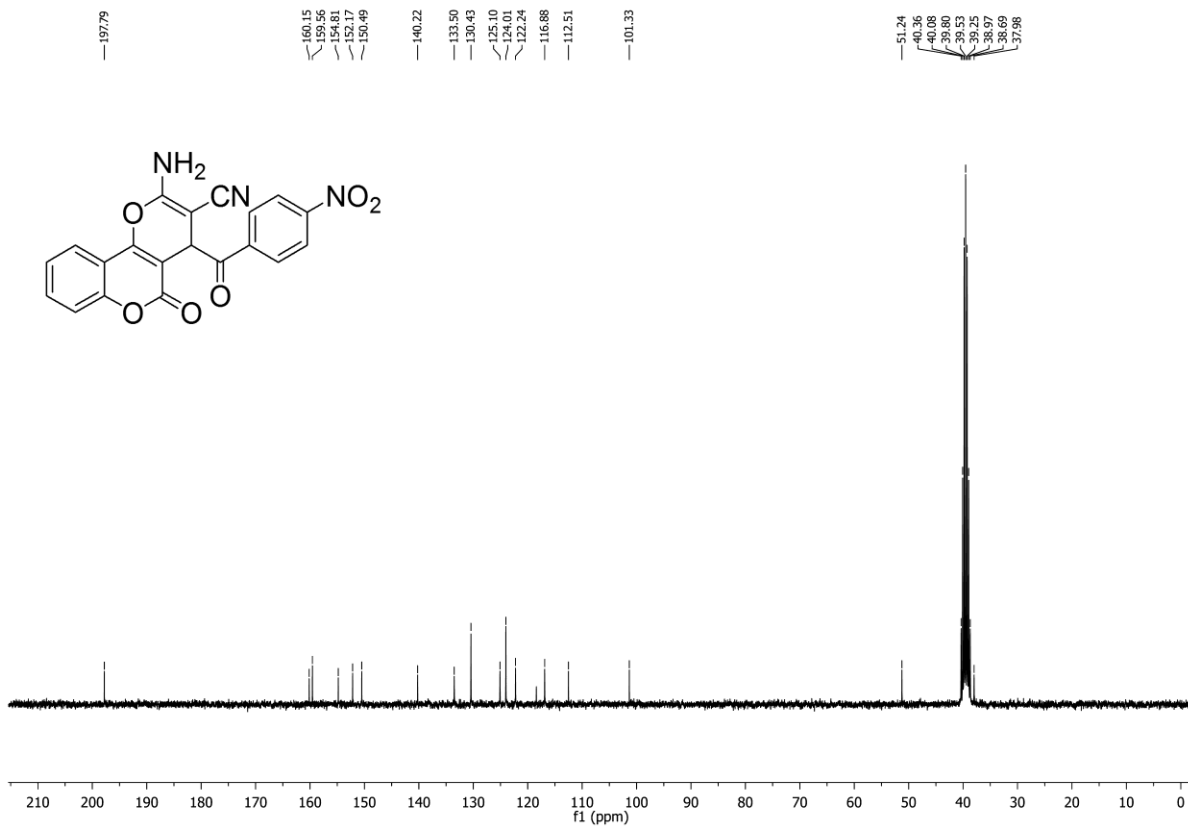


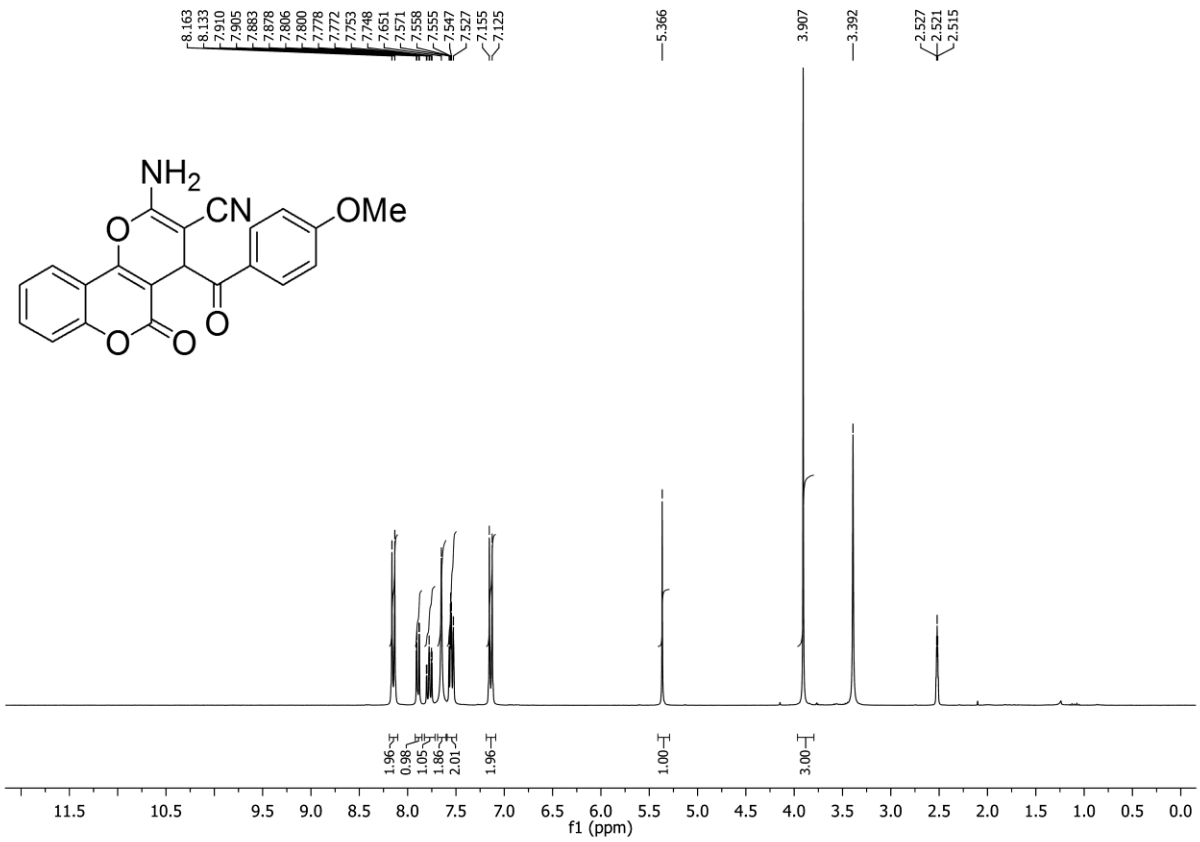
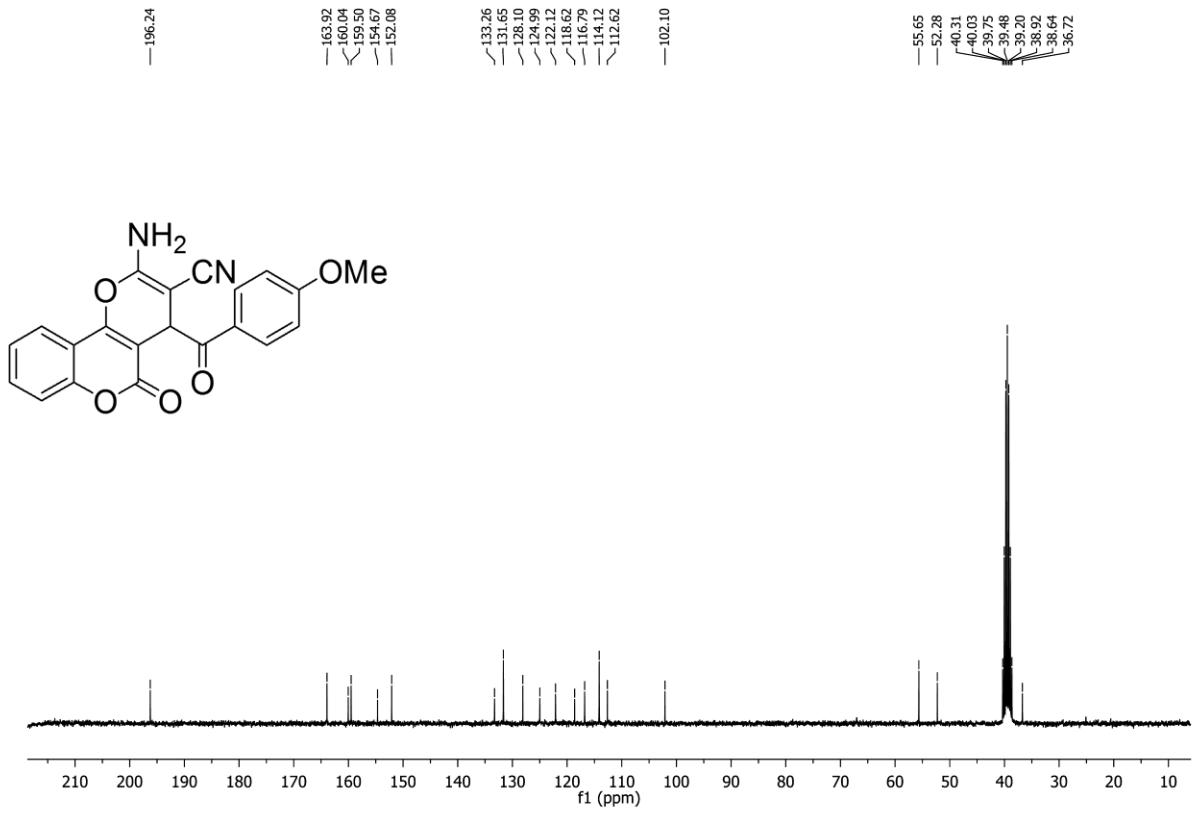
**(Supplementary Data)**

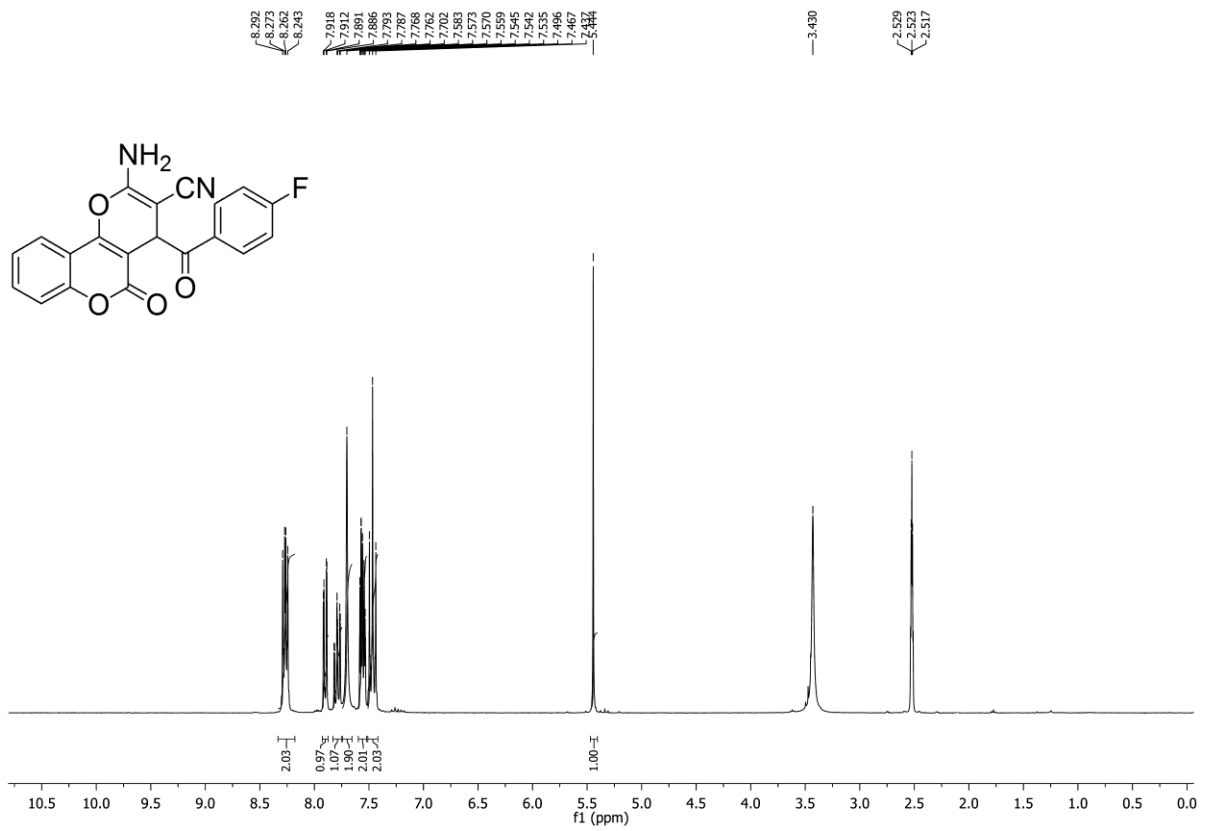
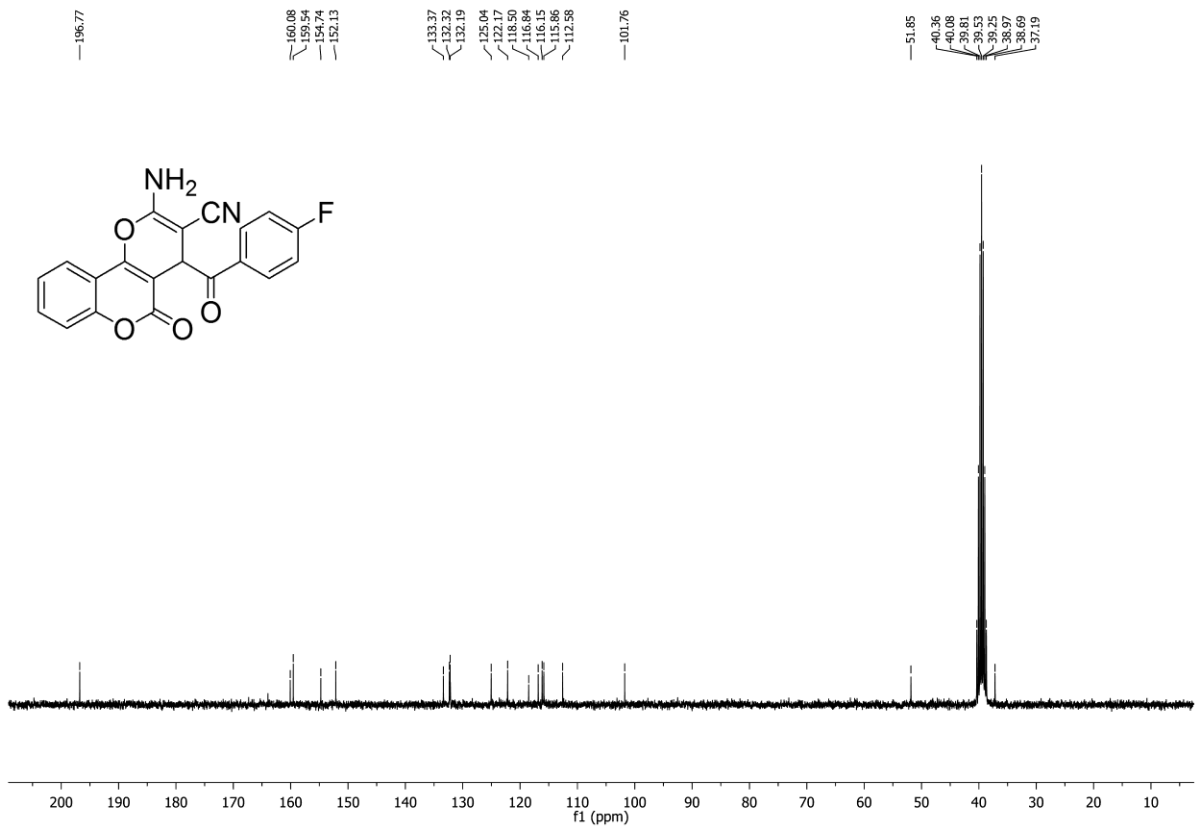
**Graphene oxide nanosheets as metal-free catalyst in the three-component reactions based on aryl glyoxals to generate novel pyranocoumarins**

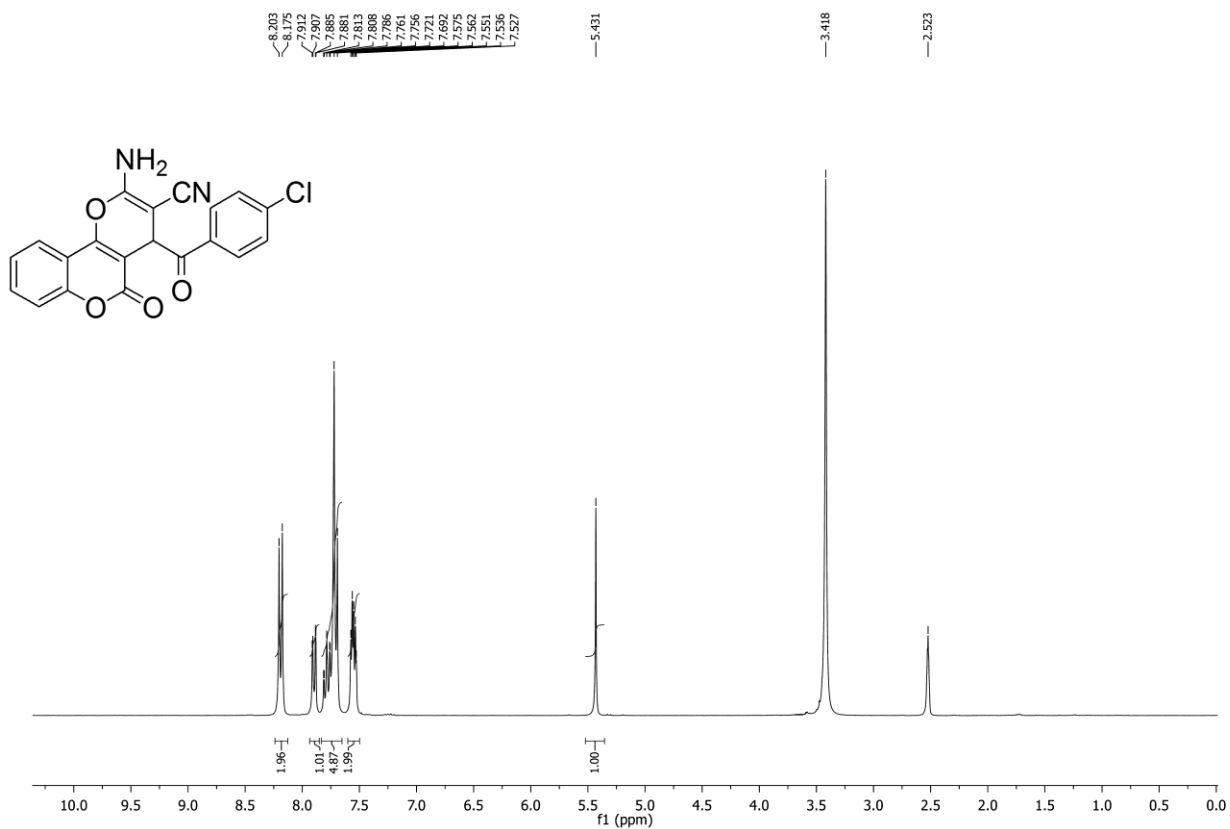
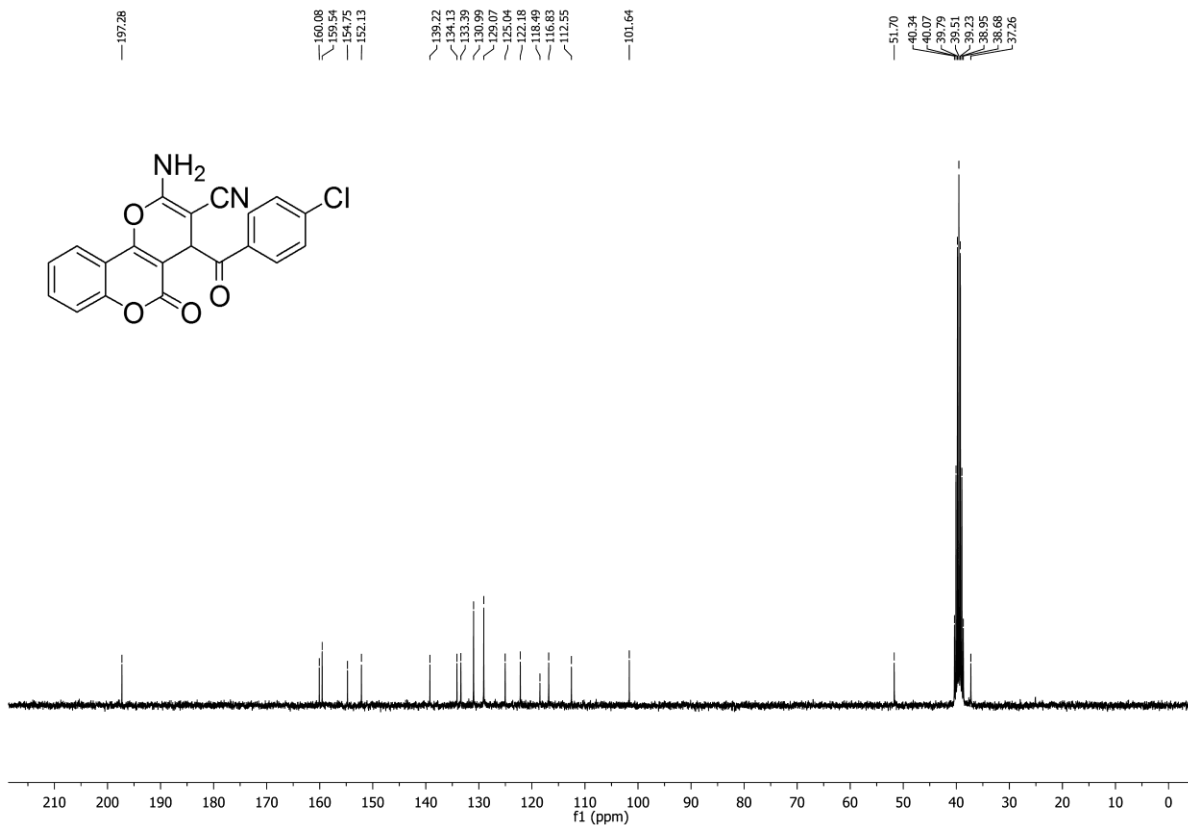
Saeed Khodabakhshi and Bahador Karami\*

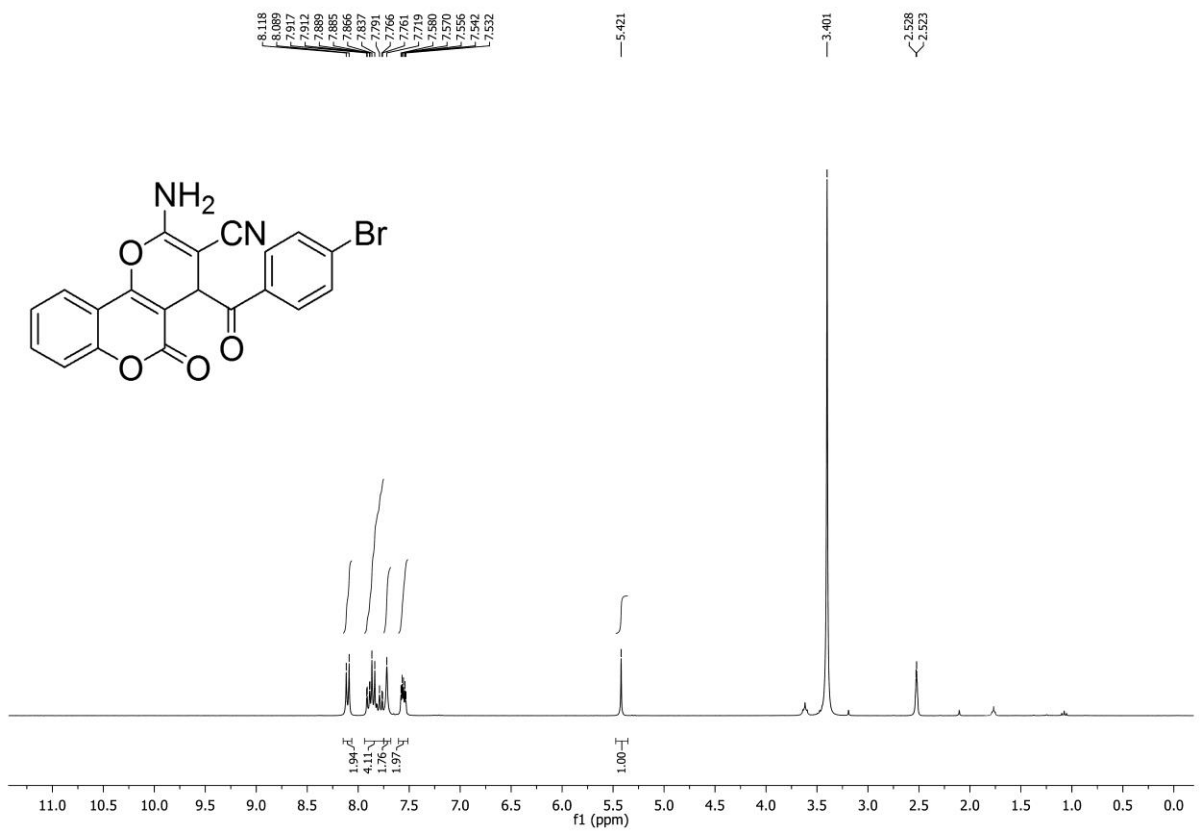
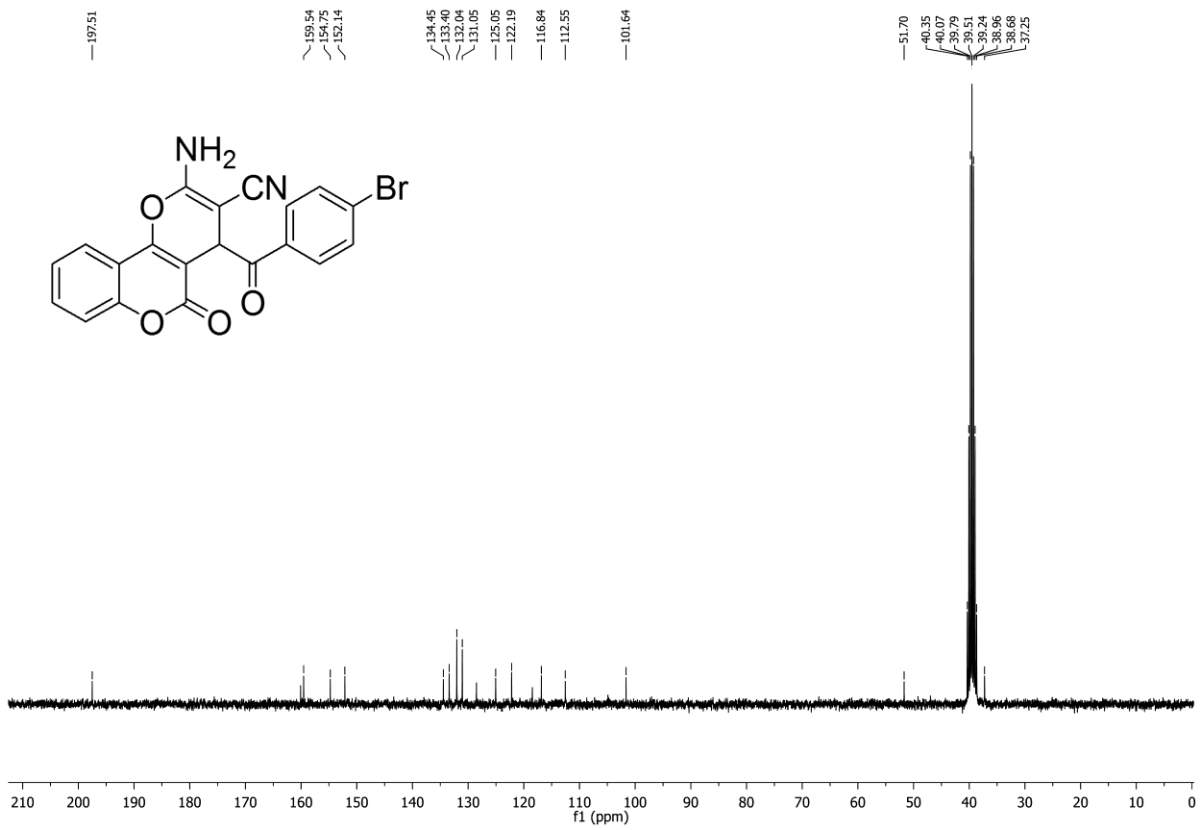


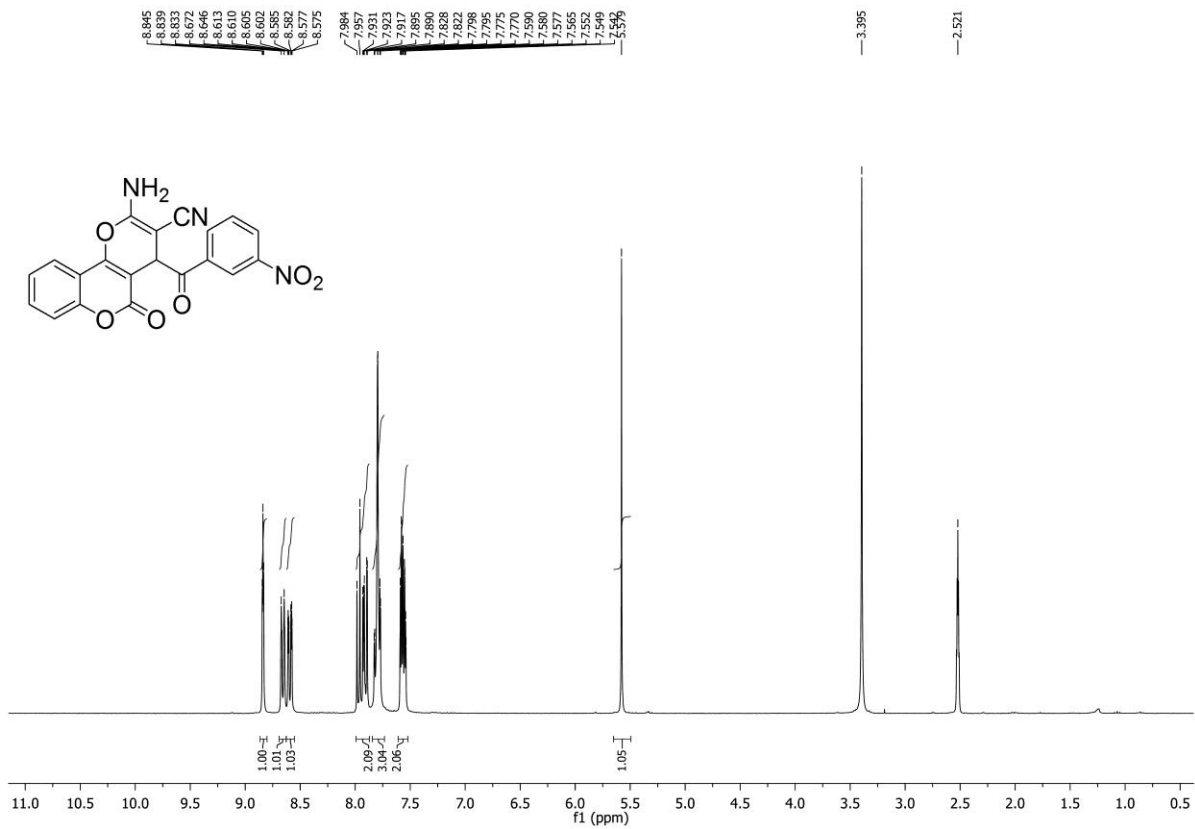
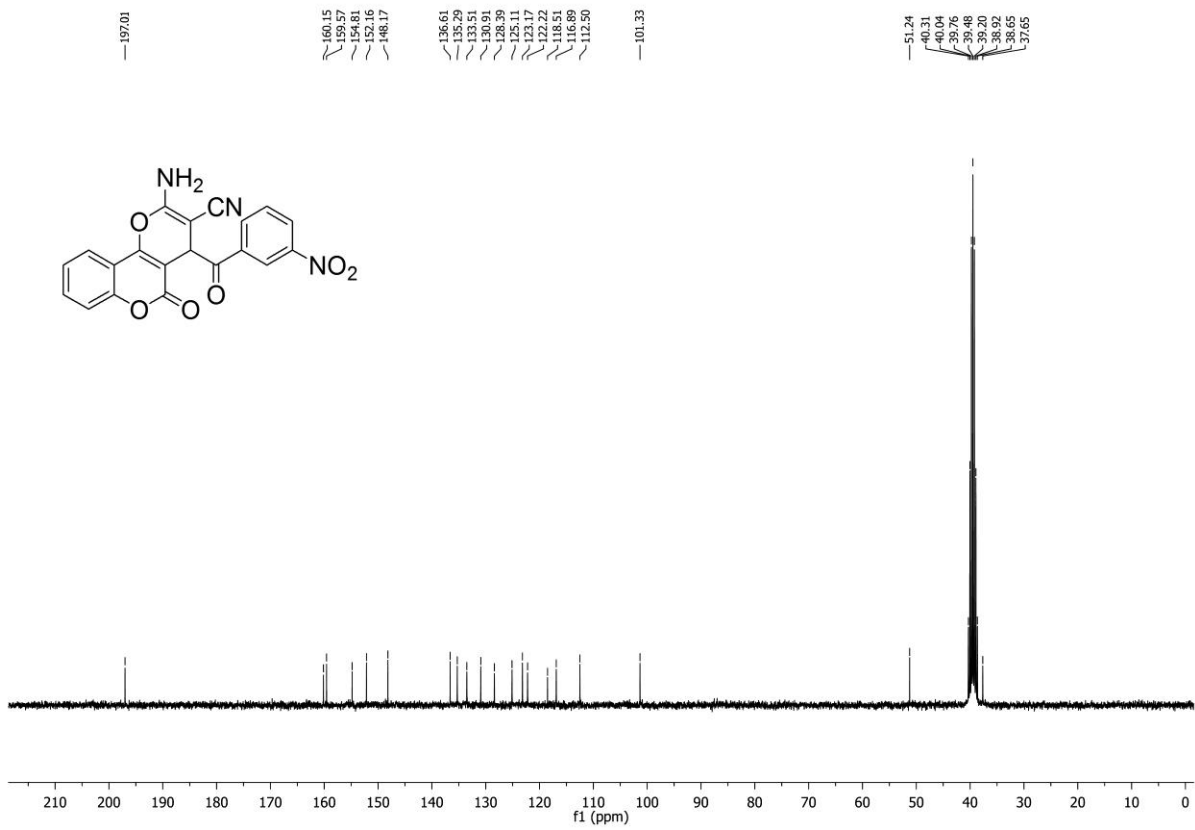




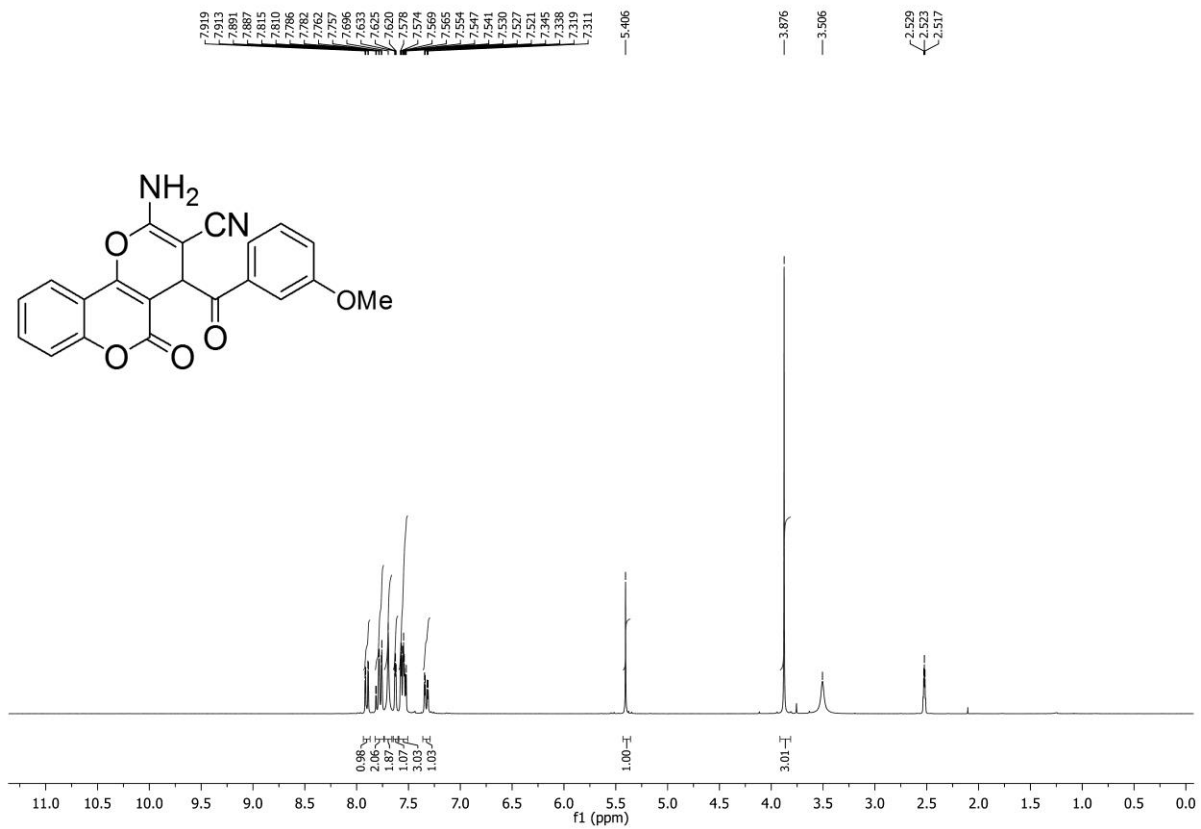
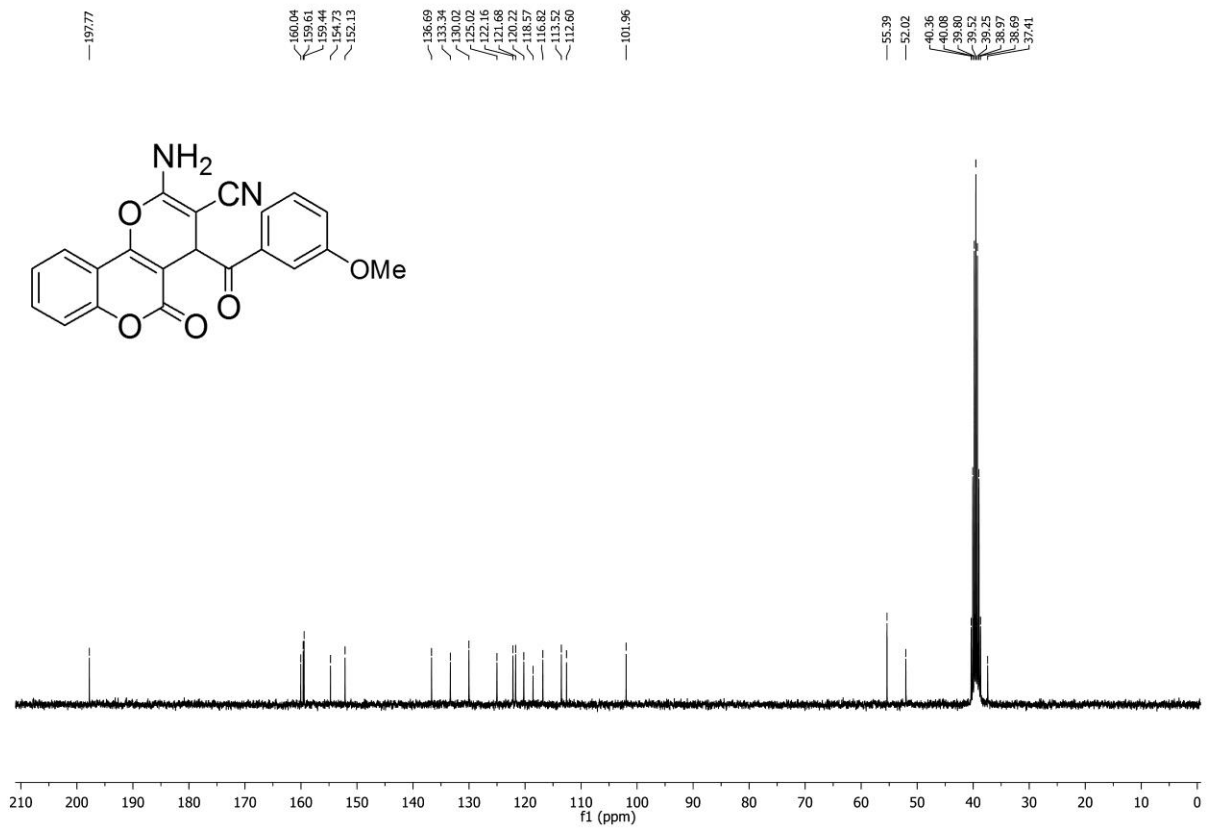










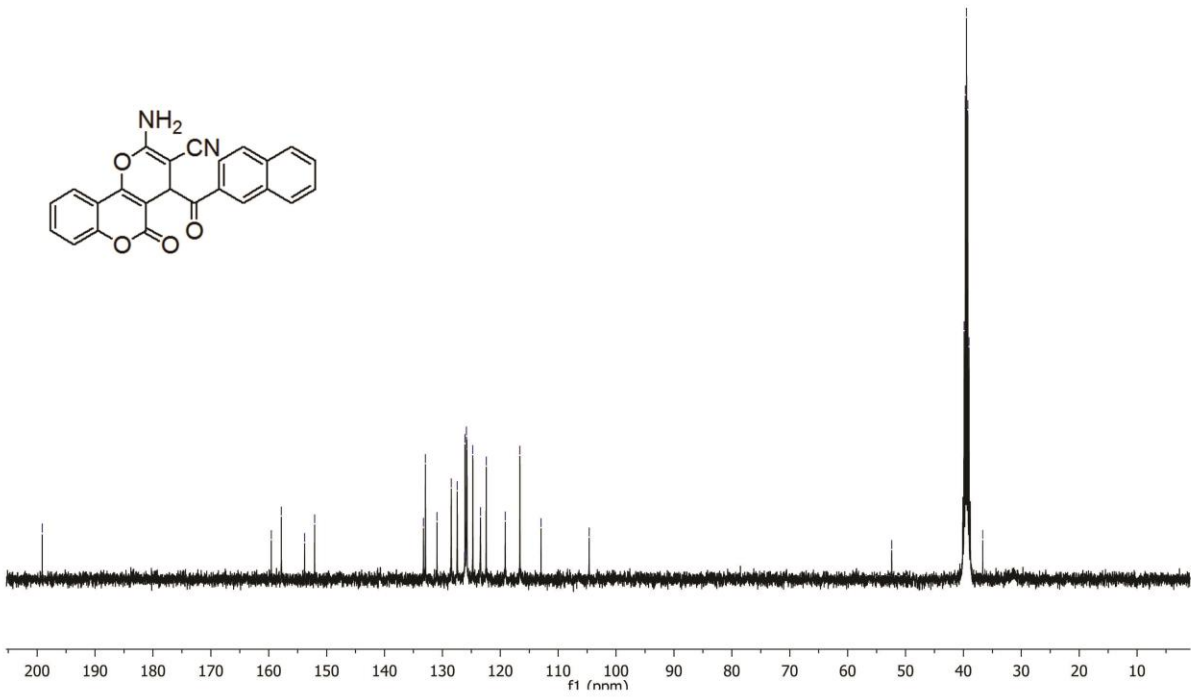
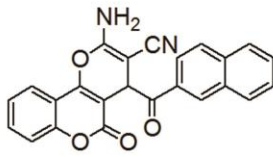


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157.68  
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152.05  
133.27  
132.93  
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128.47  
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126.18  
126.13  
126.02  
125.85  
125.75  
124.74  
123.43  
122.45  
119.15  
116.61  
112.96  
104.65

—53.62

39.87  
39.67  
39.46  
39.25  
39.04  
37.27



8.445  
7.982  
7.978  
7.962  
7.958  
7.948  
7.935  
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7.728  
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7.666  
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7.527  
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7.477  
7.463  
7.445  
7.425  
7.393  
7.343  
5.477

3.360

2.513  
2.509  
2.504

