

## Supporting Information

### Synthesis of *N*-pyridyl azoles using a deprotometalation-iodolysis-*N*-arylation sequence and evaluation of their antiproliferative activity in melanoma cells

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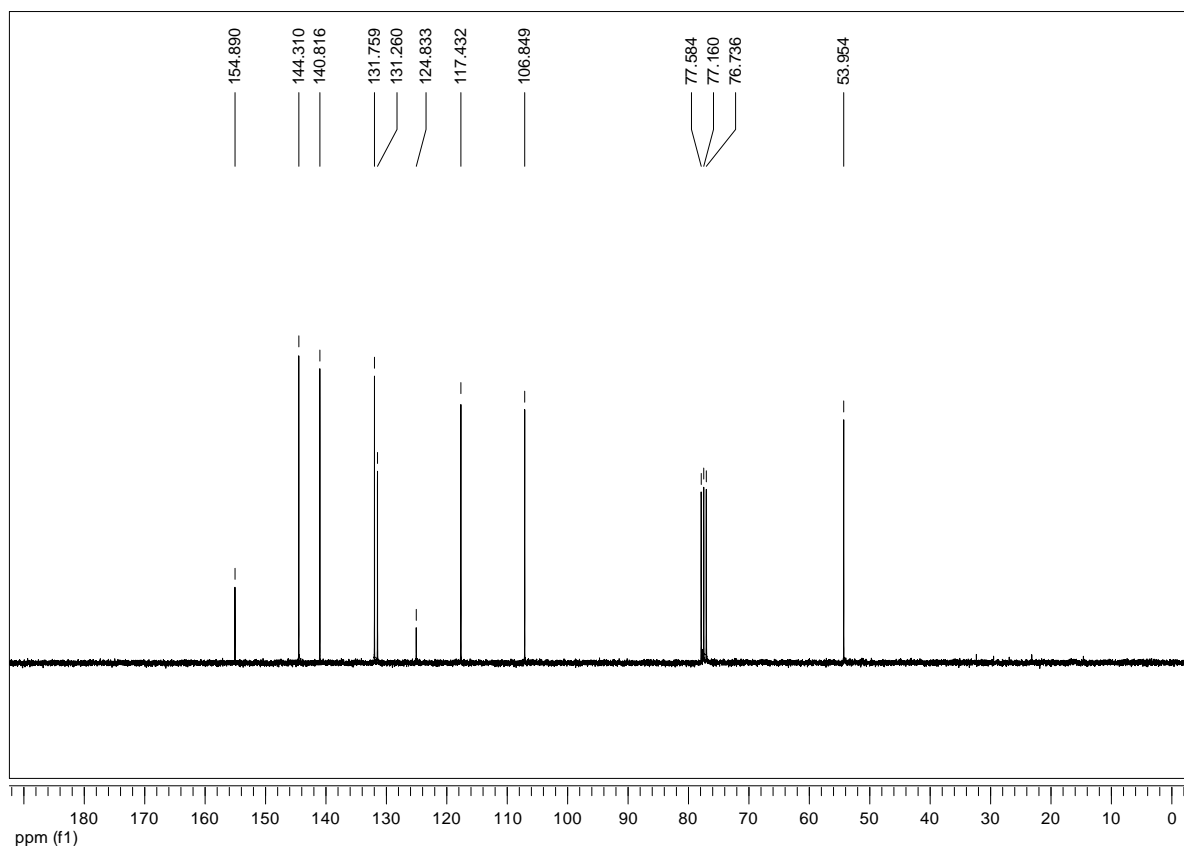
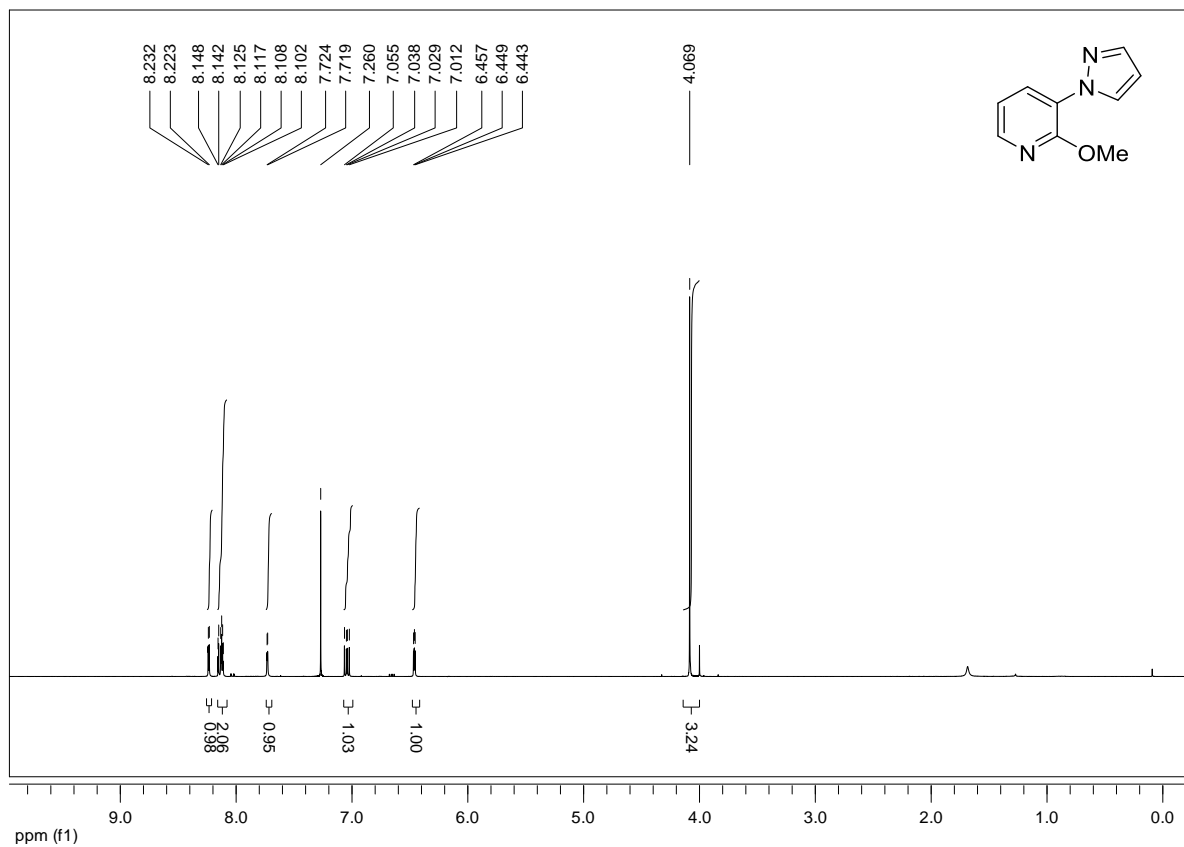
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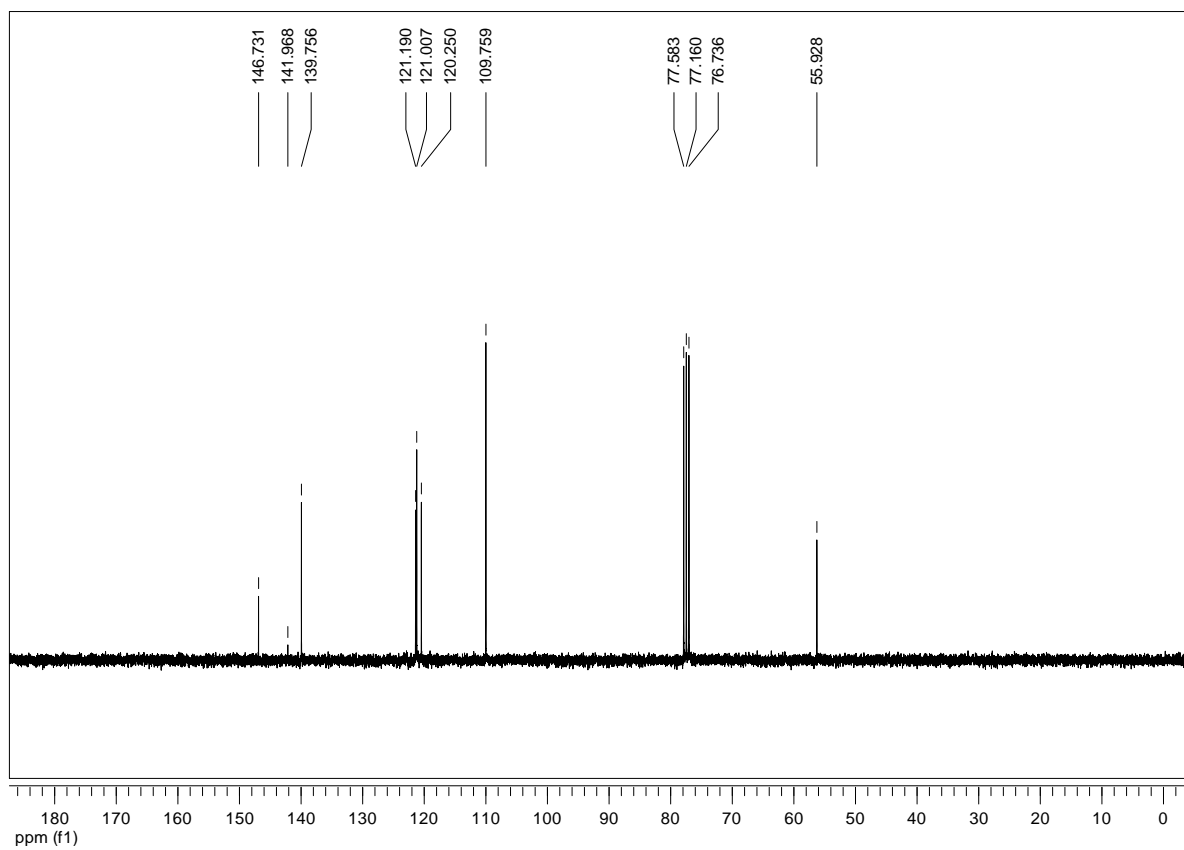
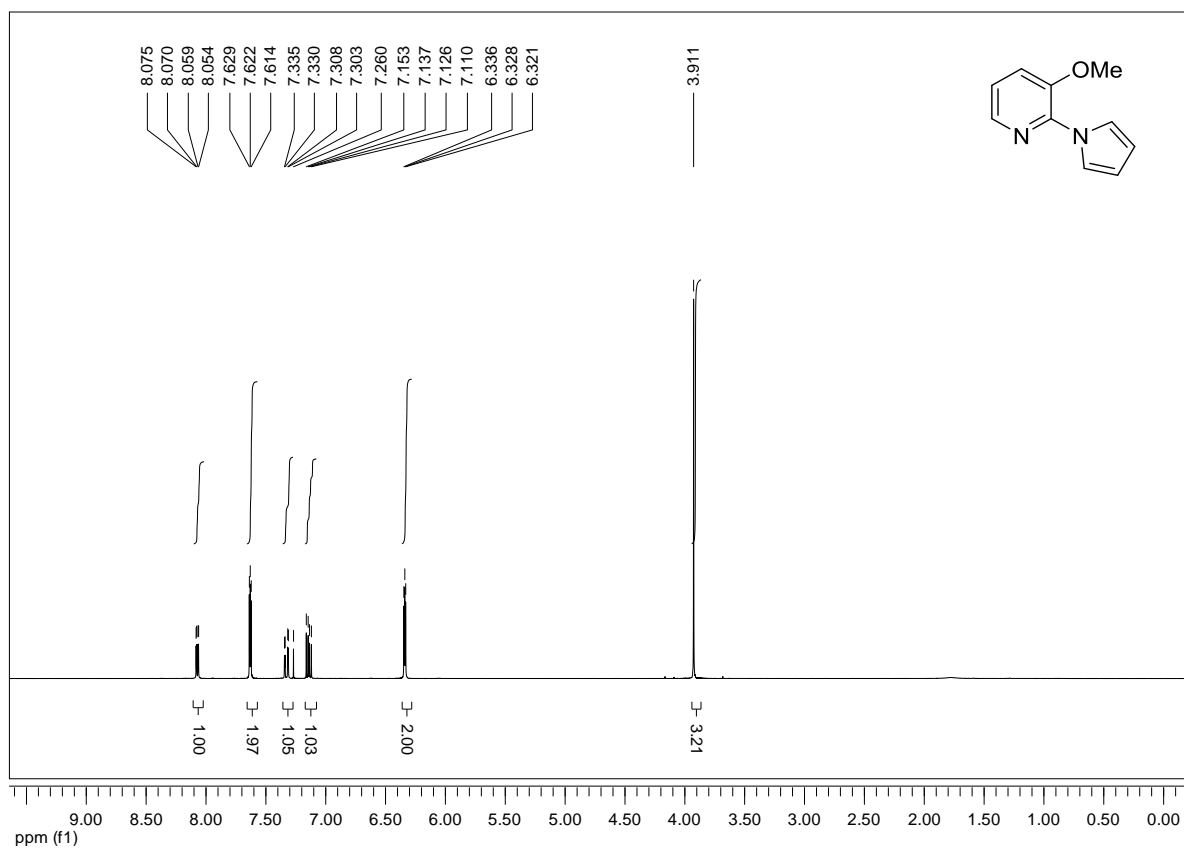
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**NMR data of compounds 1c, 2b', 2e', 2d', 2f', 3b', 3c', 3f', 3g', 1b, 1e, 1d, 2b, 2e, 2d, 3b, 3b'', 3e, 4b, 4e, 5b and 5e**

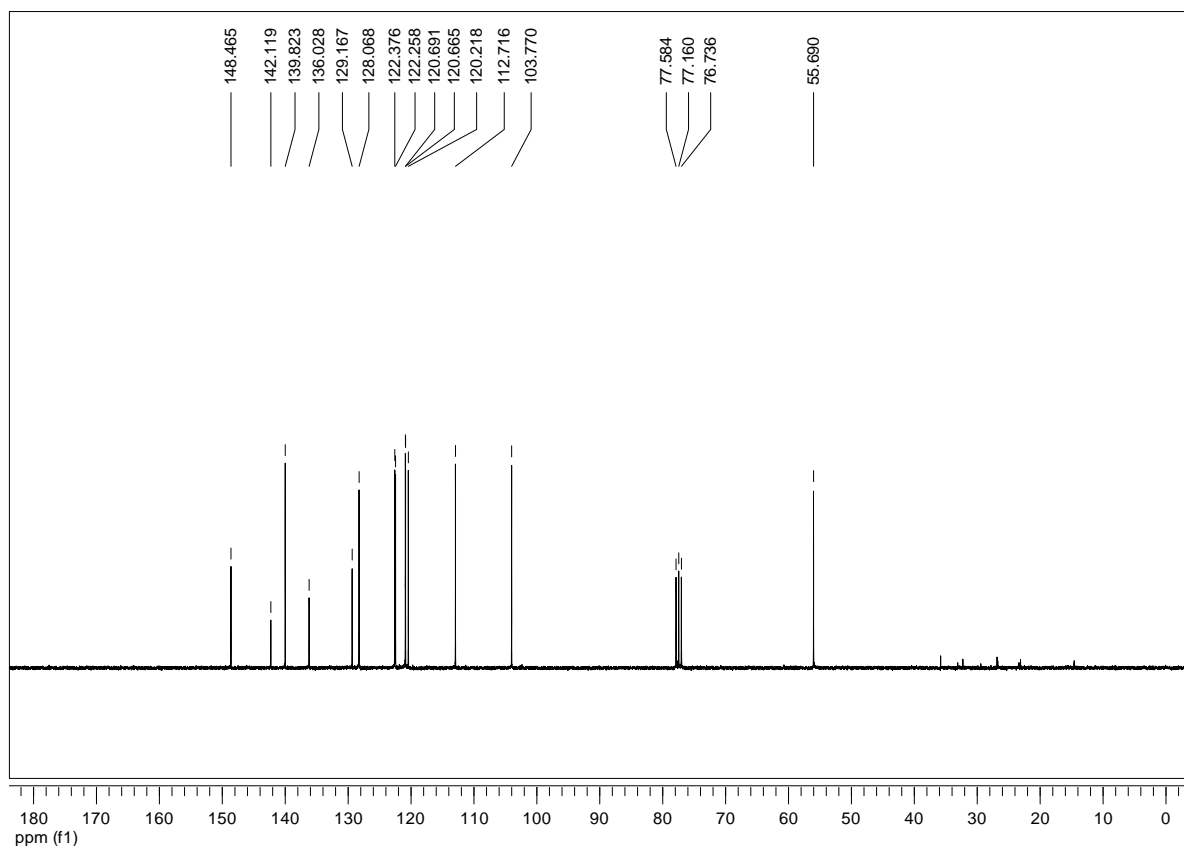
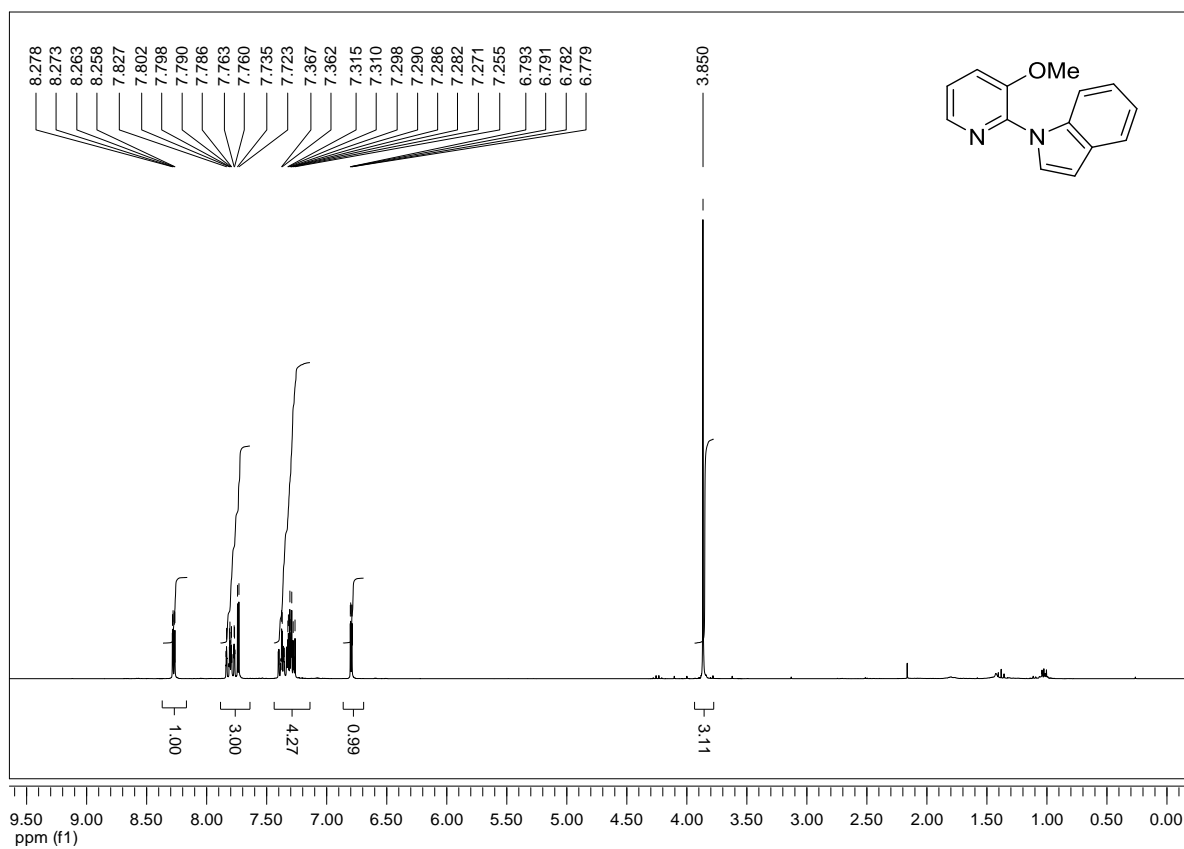
## 2-Methoxy-3-(1-pyrazolyl)pyridine (1c).



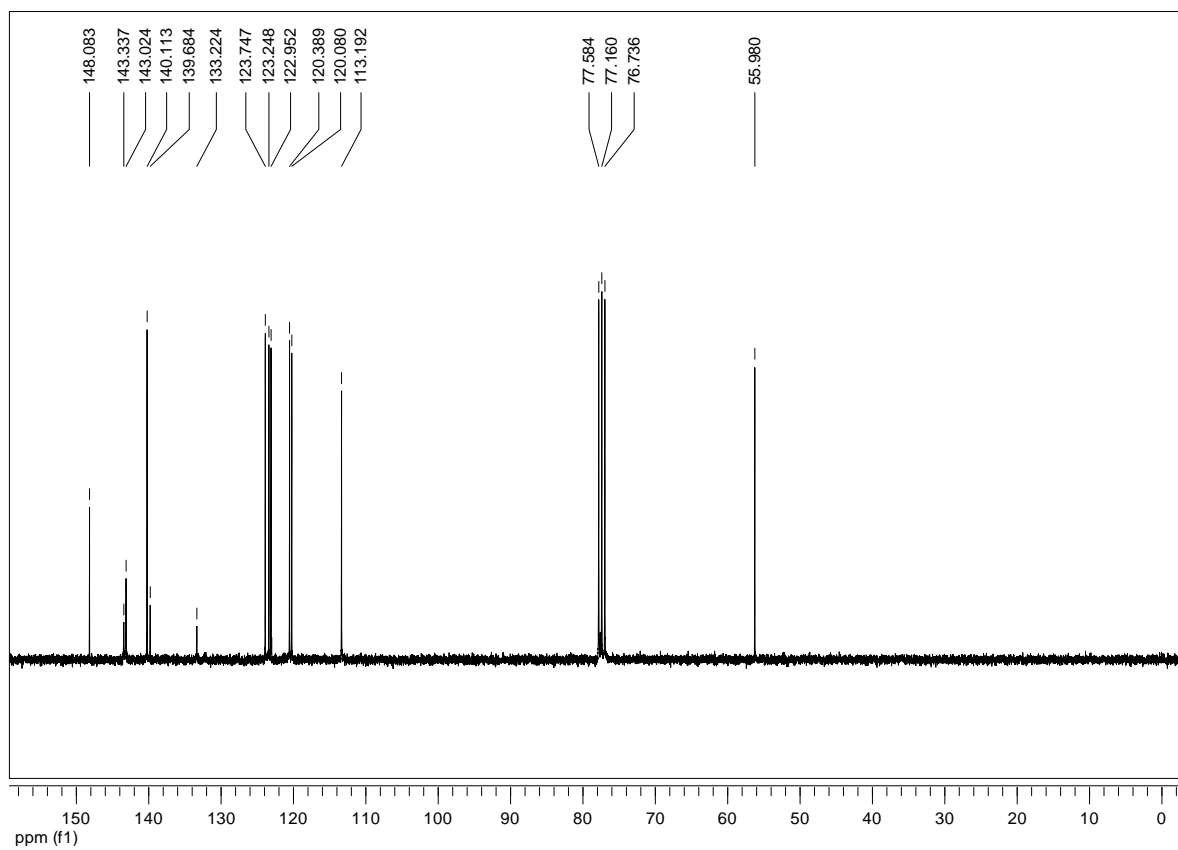
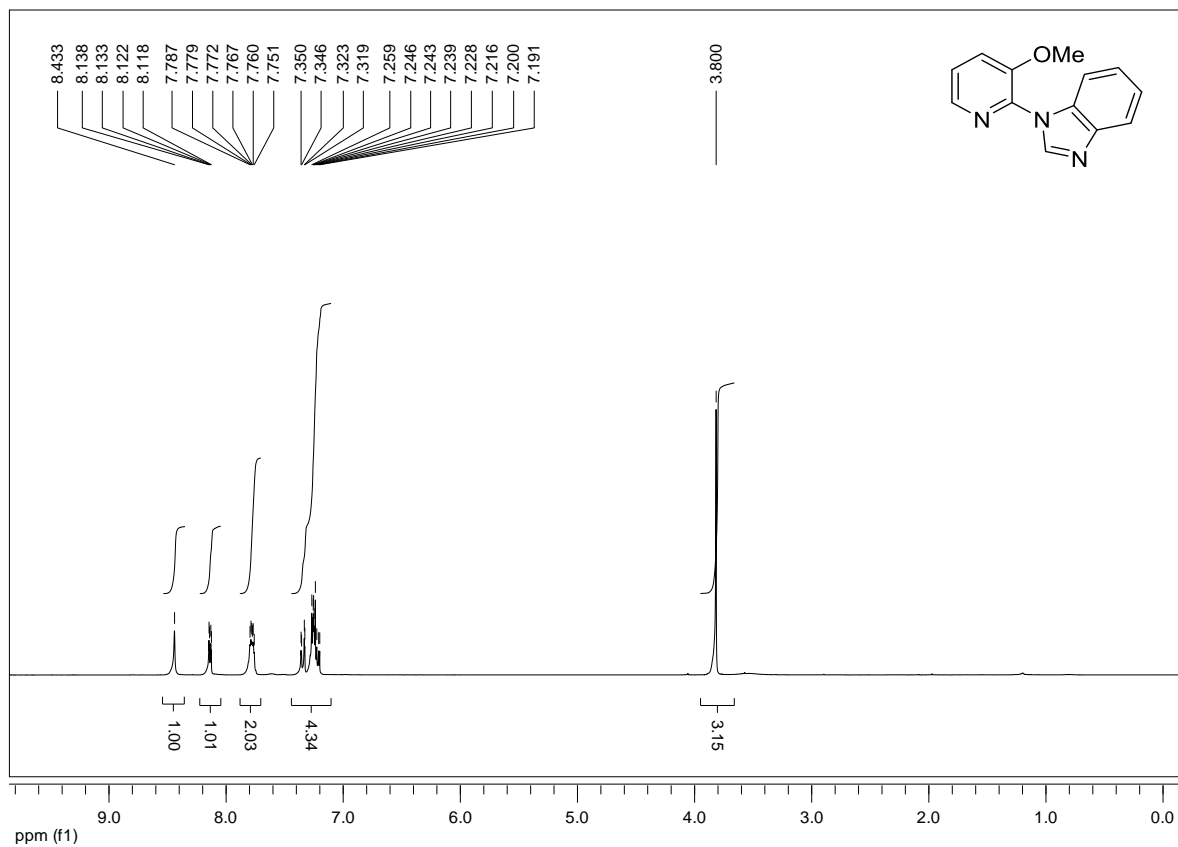
### 3-Methoxy-2-(1-pyrryl)pyridine (2b').



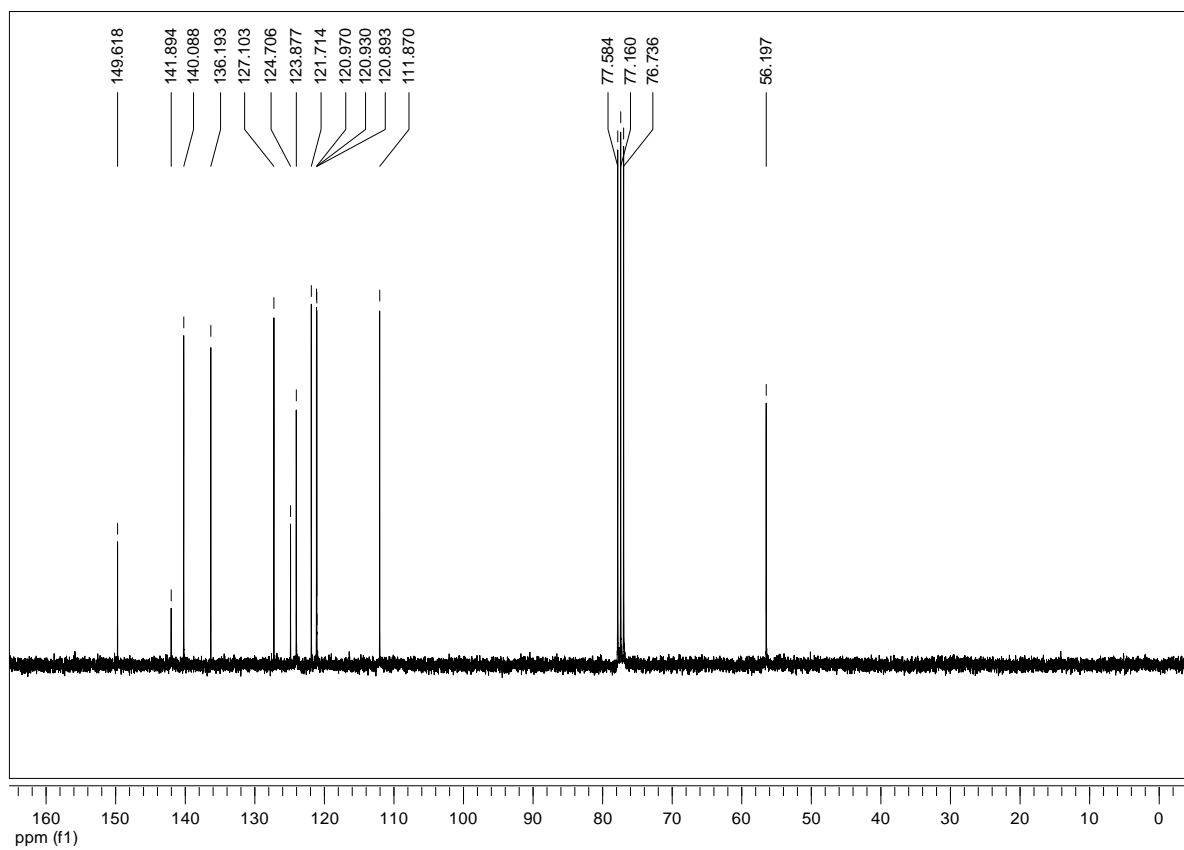
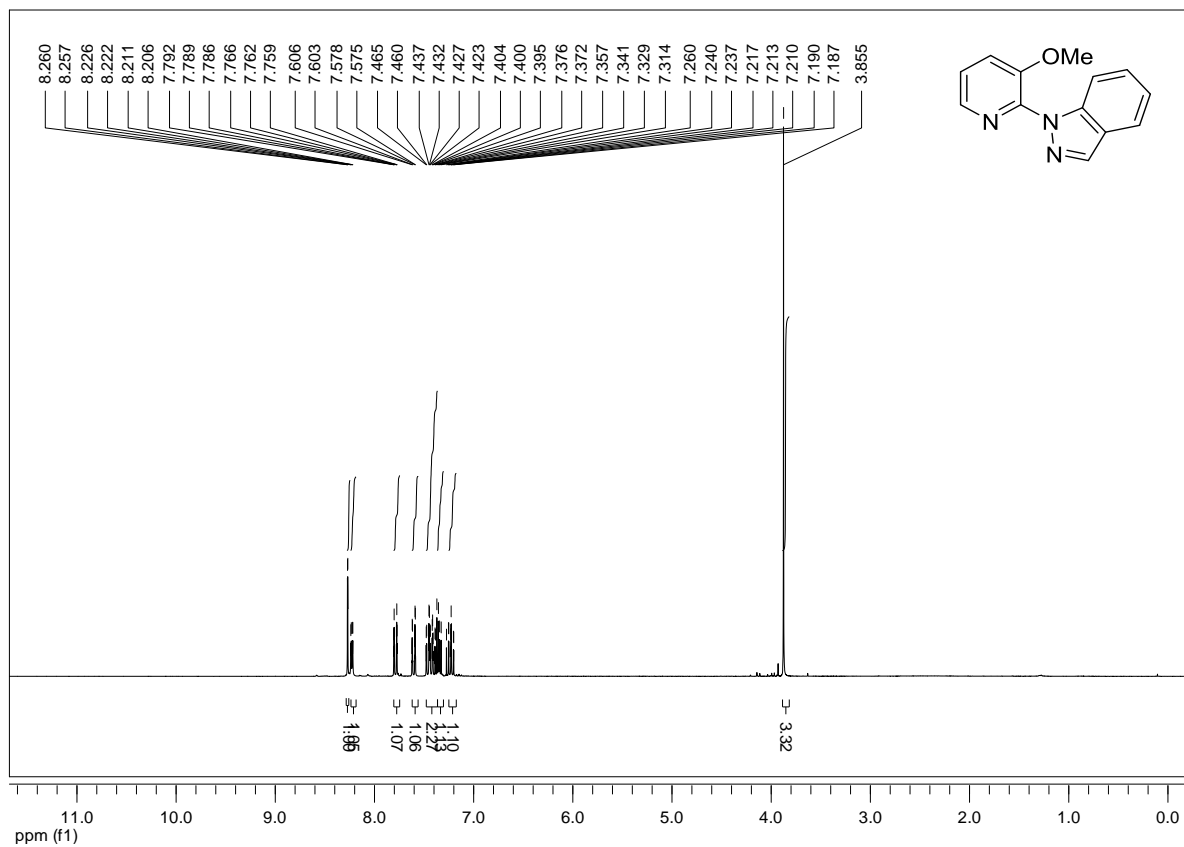
## 2-(1-Indolyl)-3-methoxypyridine (2e').



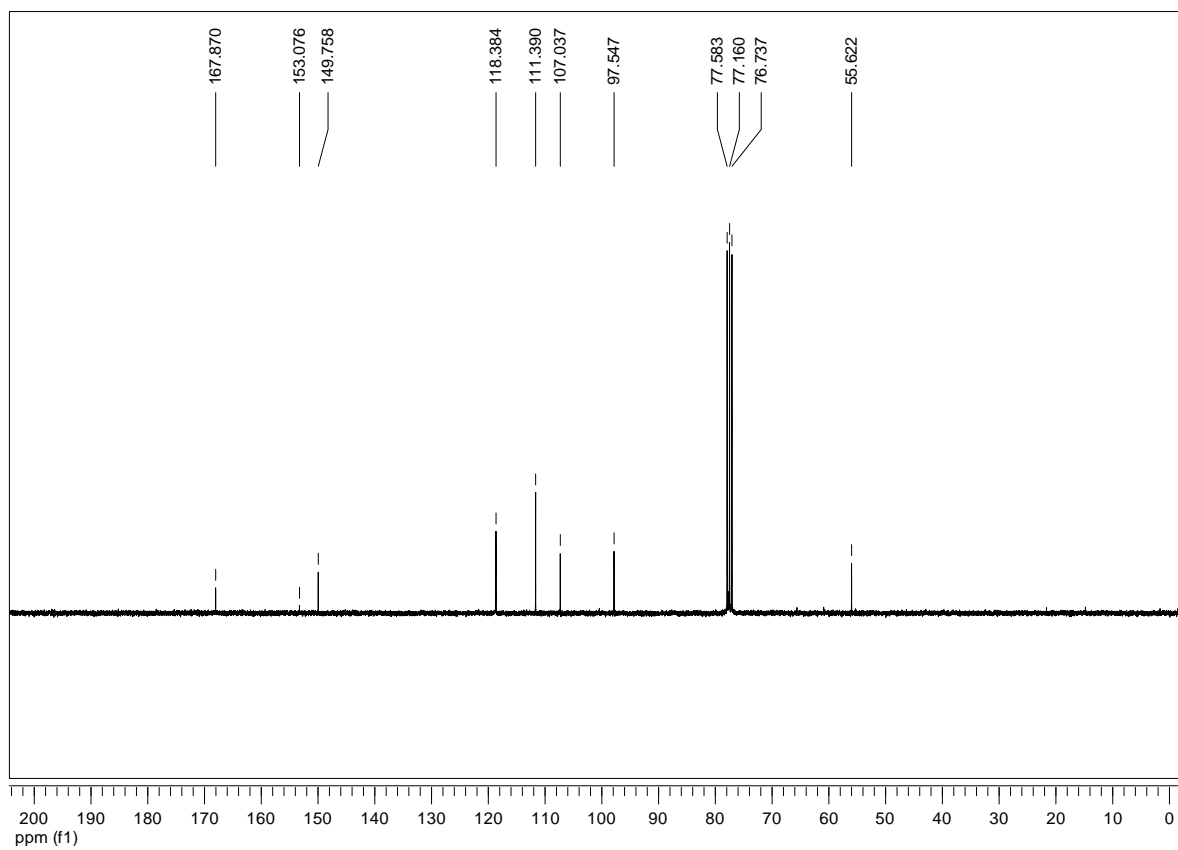
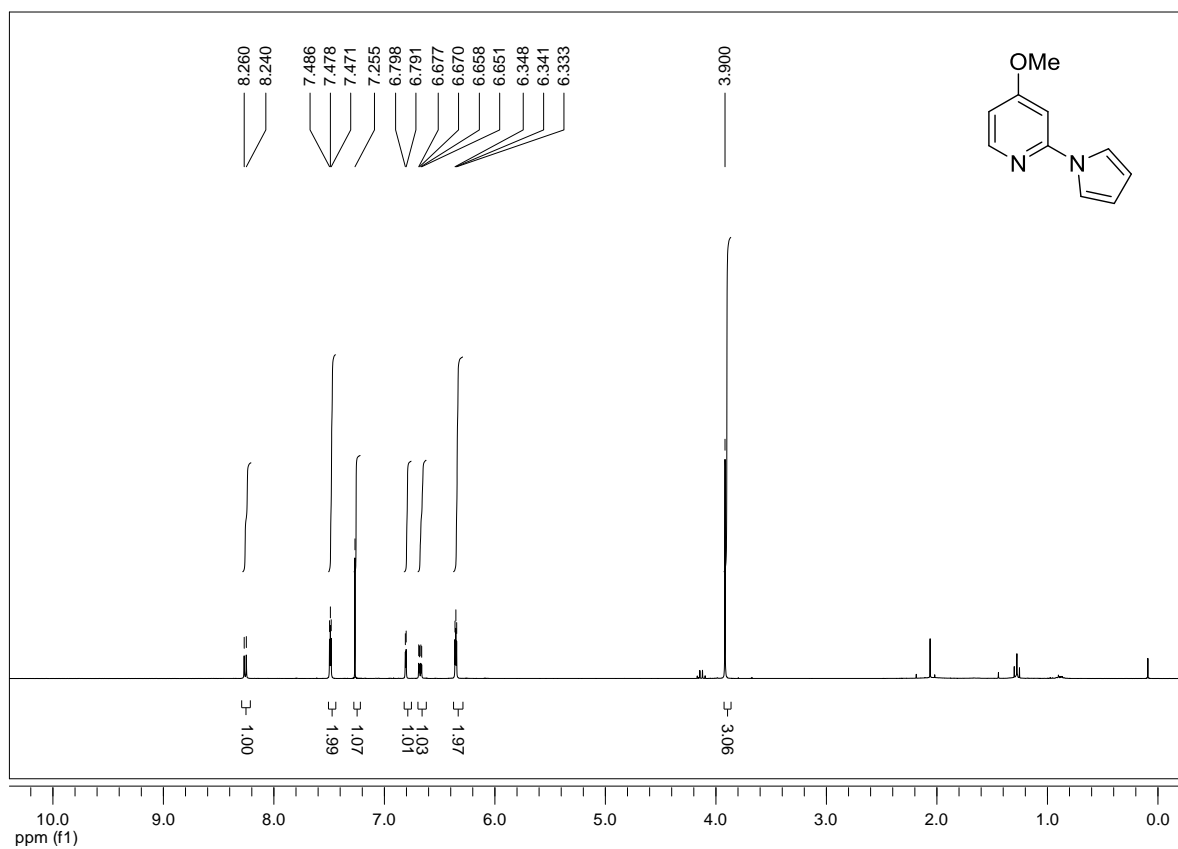
**2-(1-Benzimidazolyl)-3-methoxypyridine (2d').**



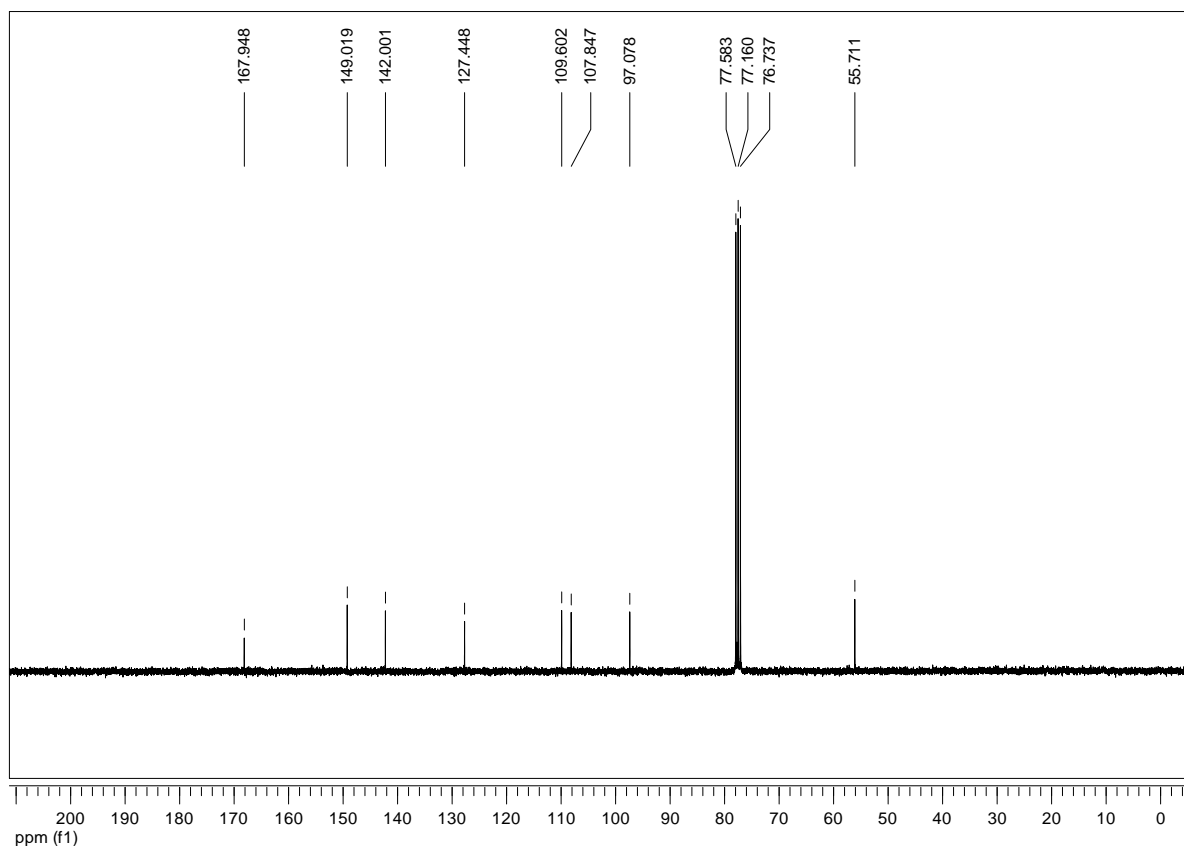
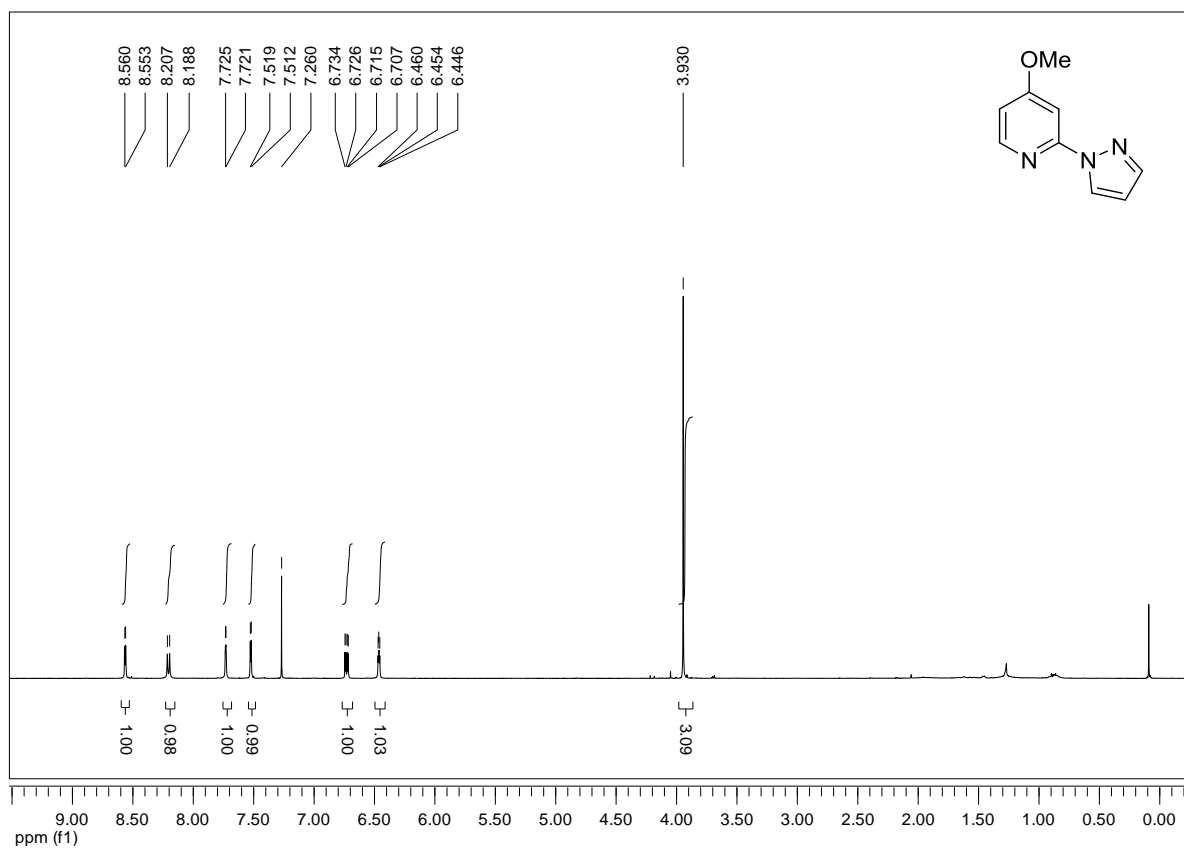
**2-(1-Indazolyl)-3-methoxypyridine (2f').**



### 4-Methoxy-2-(1-pyrryl)pyridine (3b').

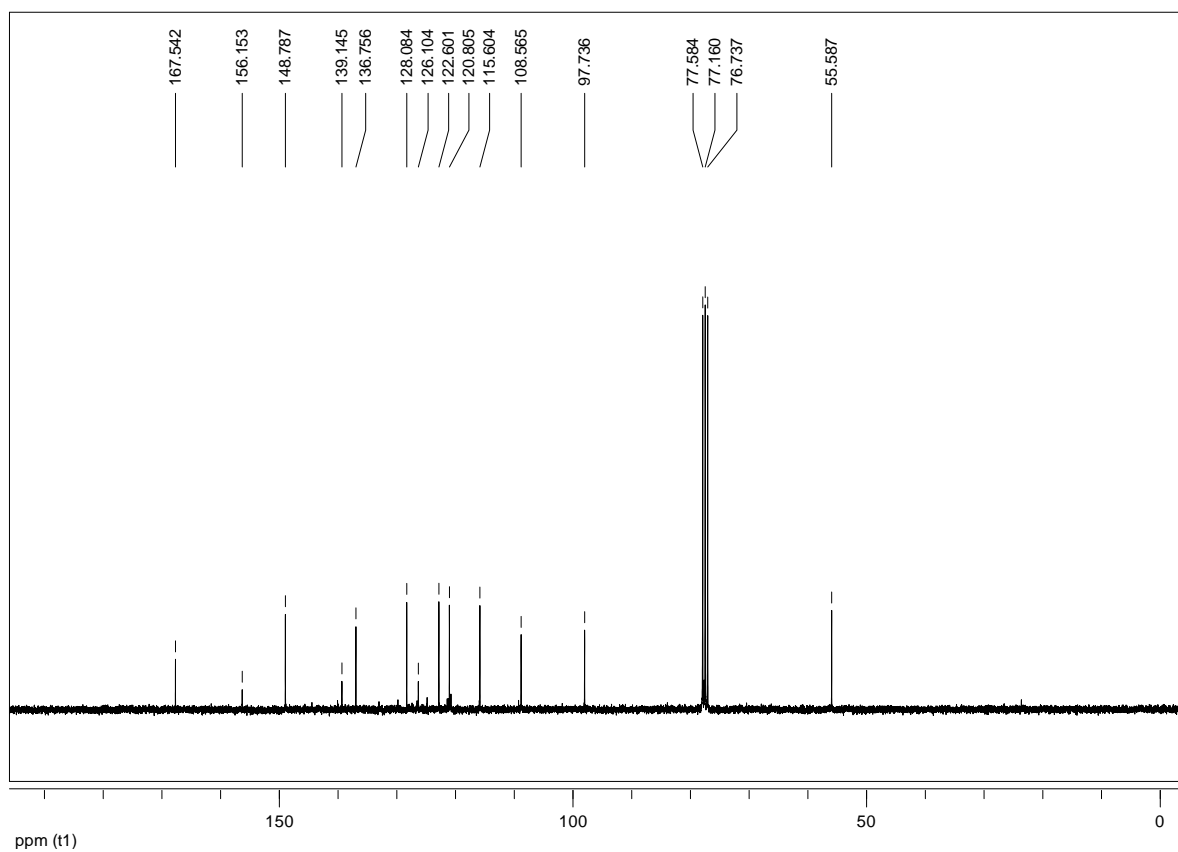
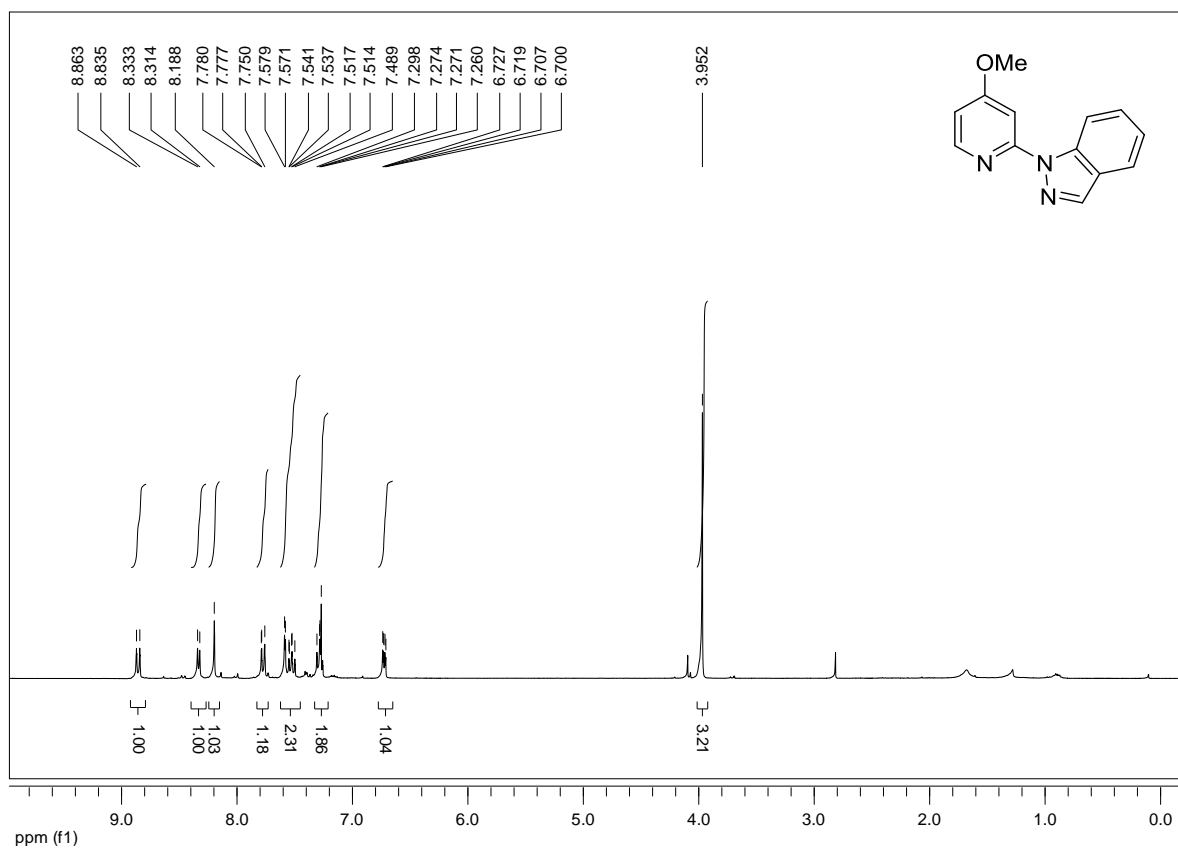


### 4-Methoxy-2-(1-pyrazolyl)pyridine (3c').

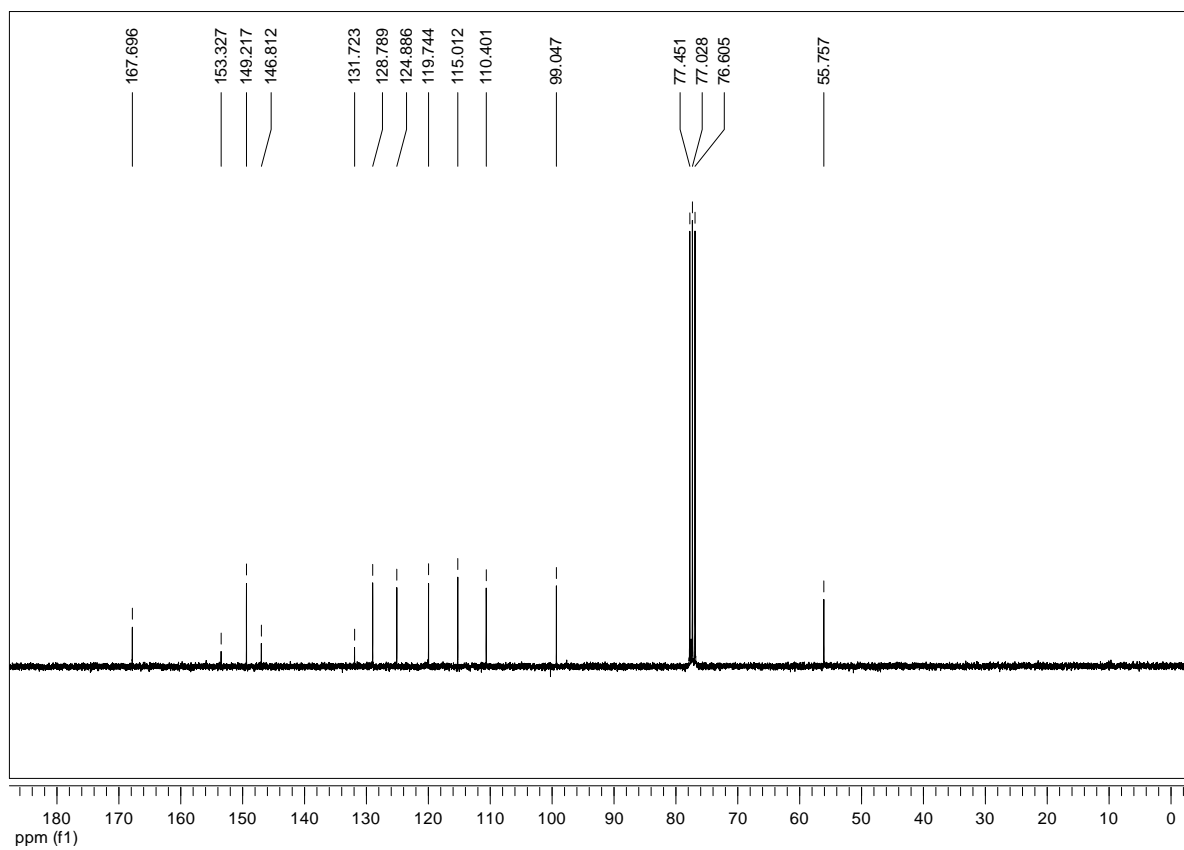
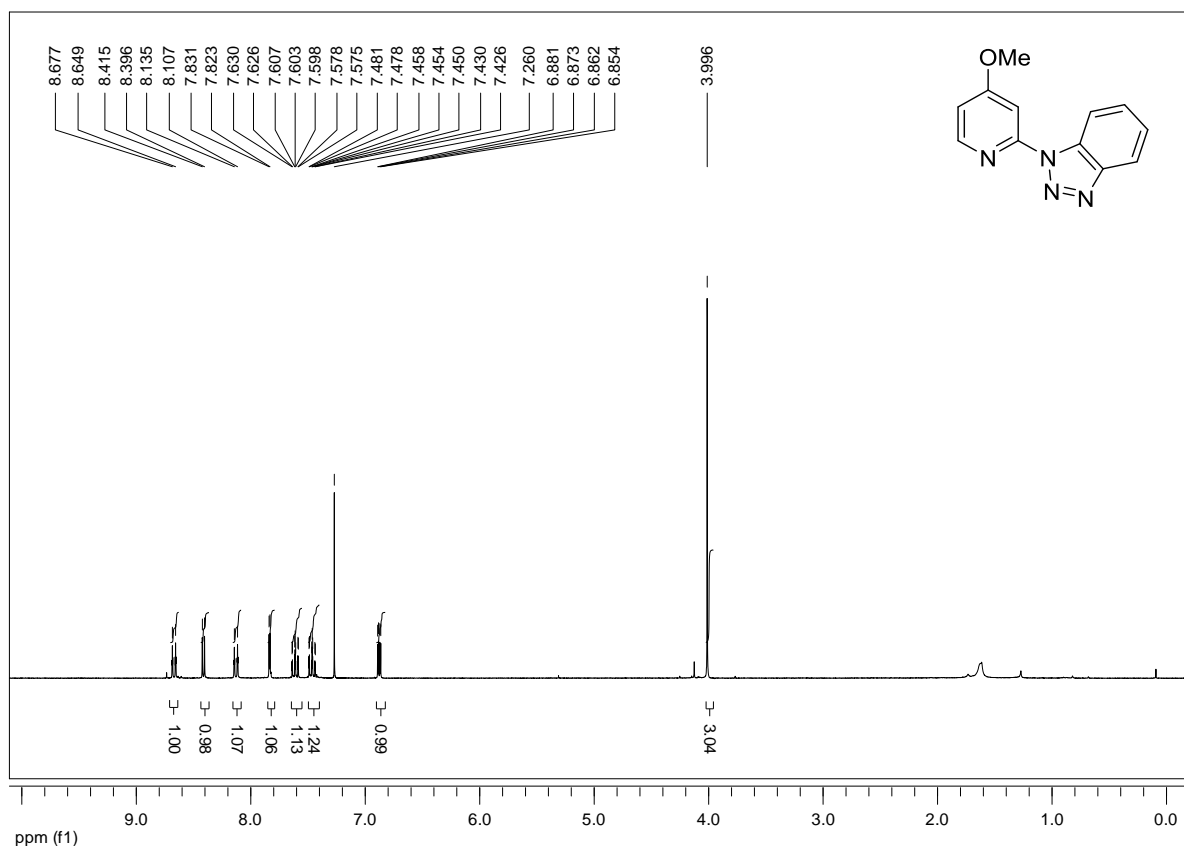




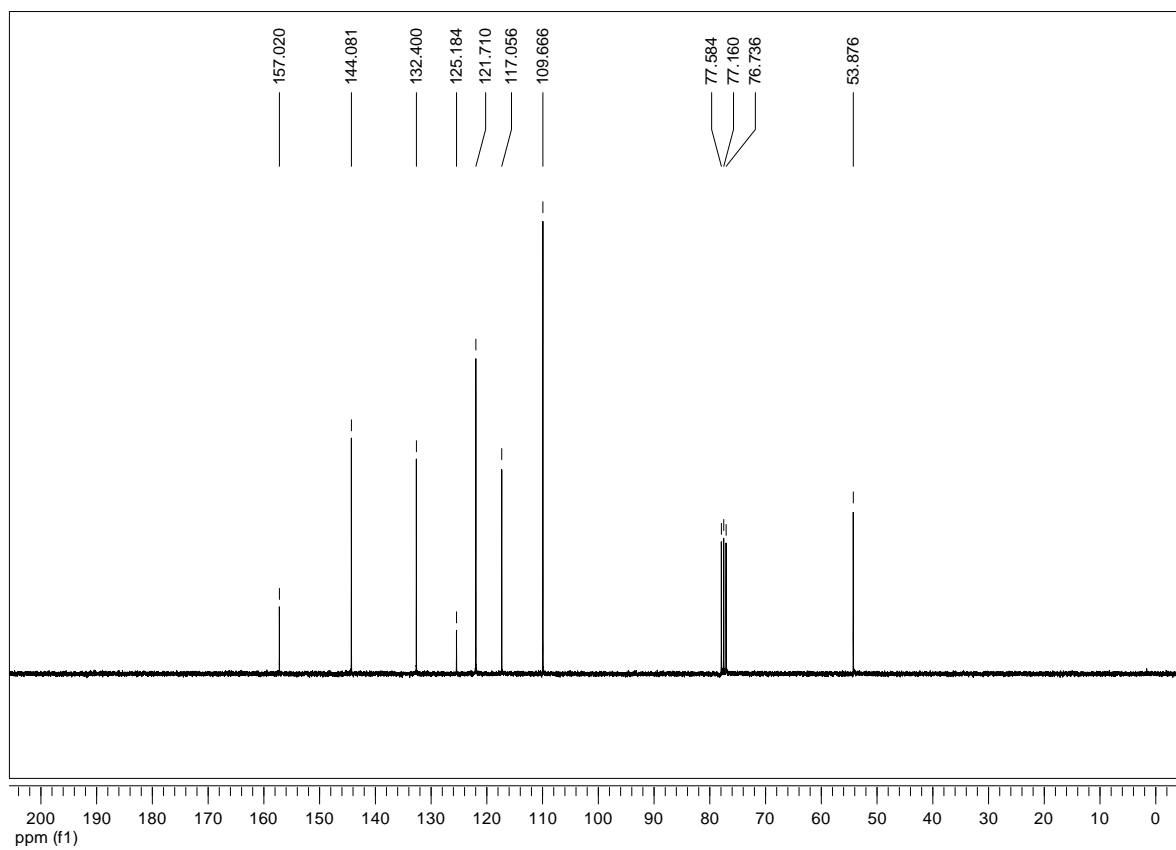
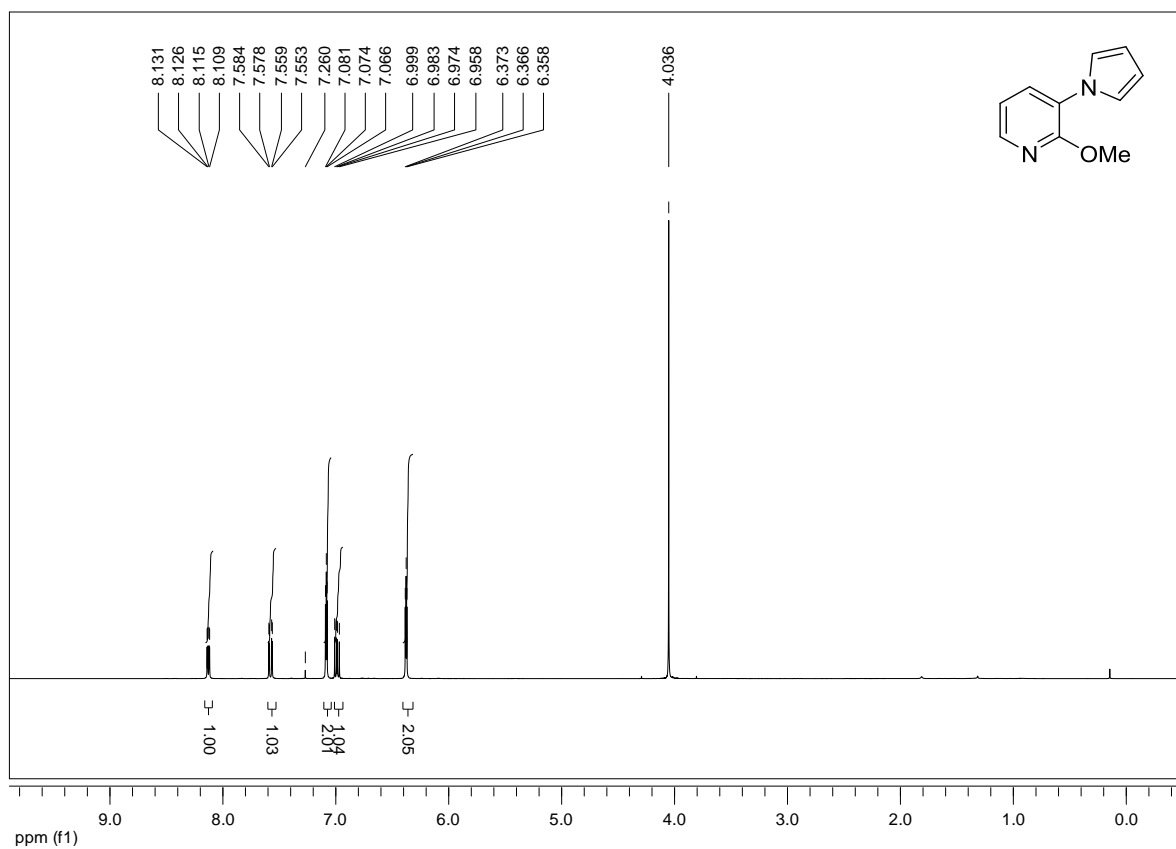
## 2-(1-Indazolyl)-4-methoxypyridine (3f').



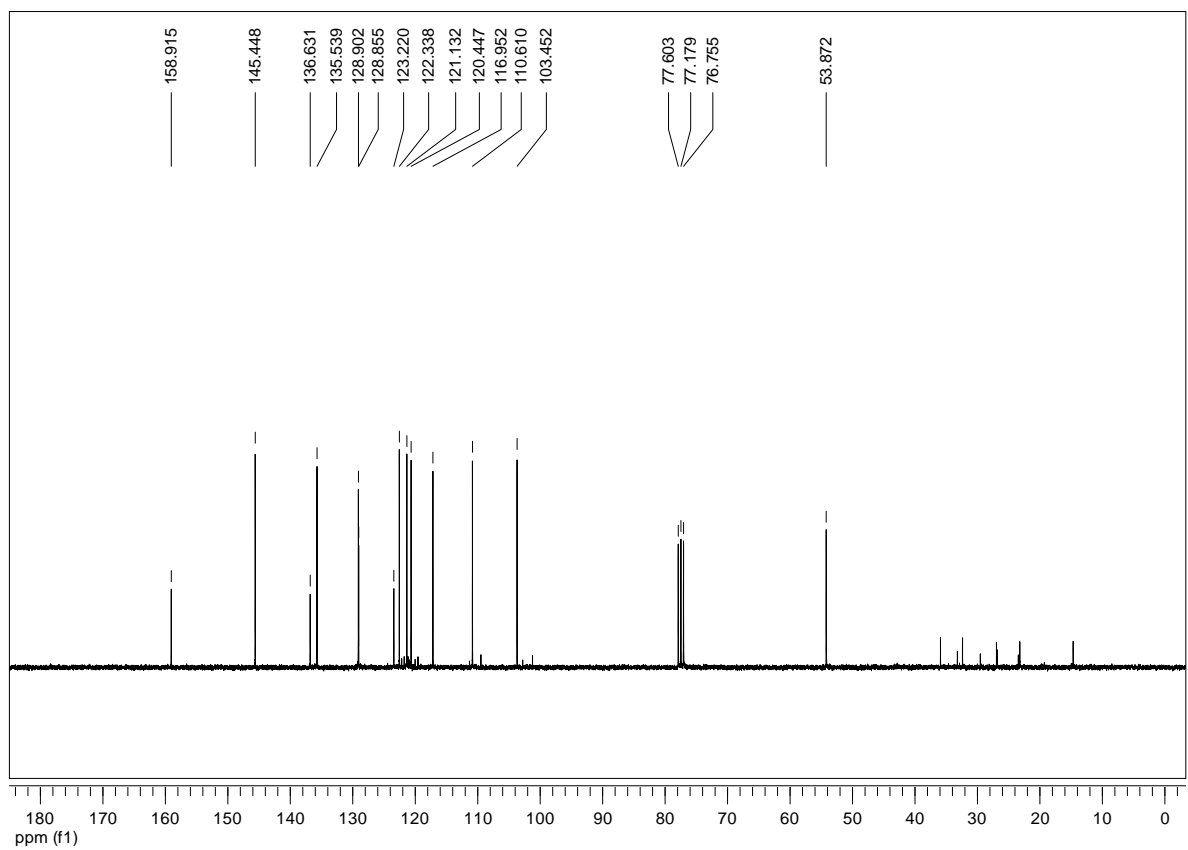
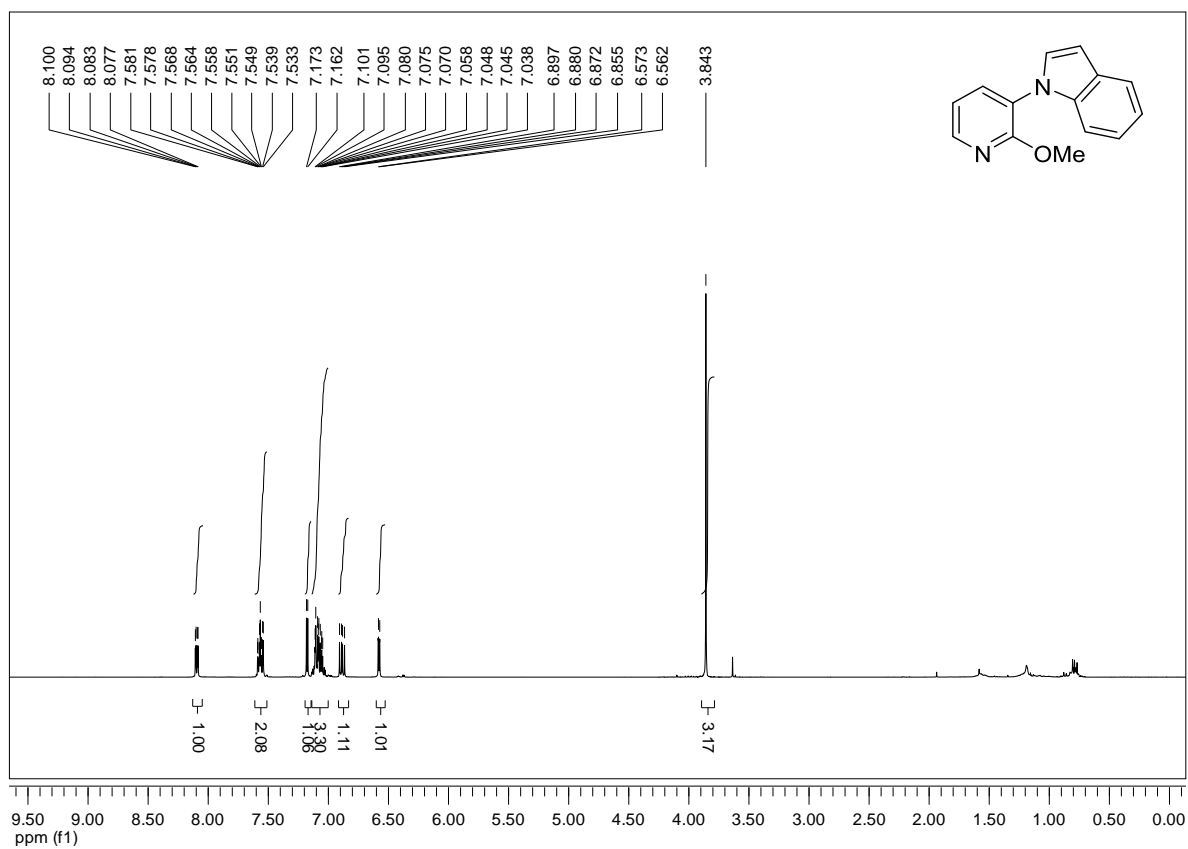
## 2-(1-Benzotriazolyl)-4-methoxypyridine (3g<sup>2</sup>).



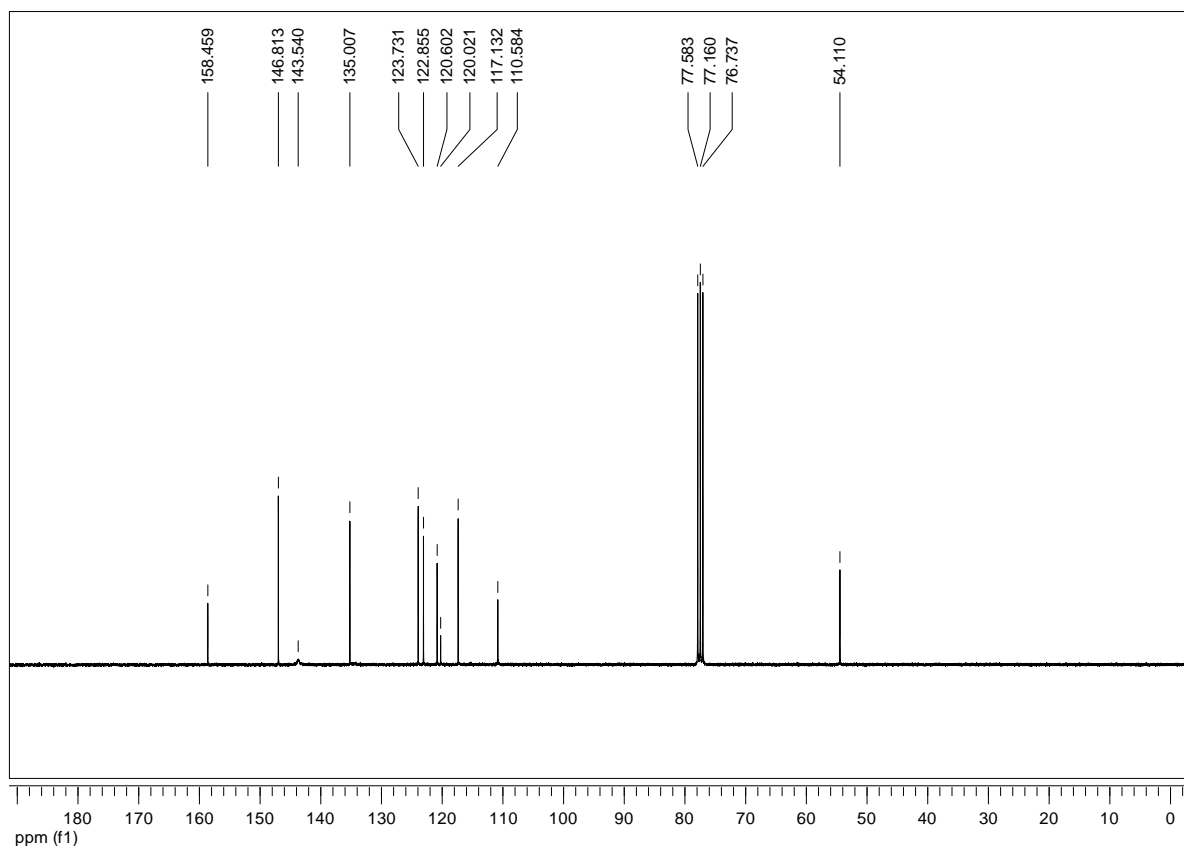
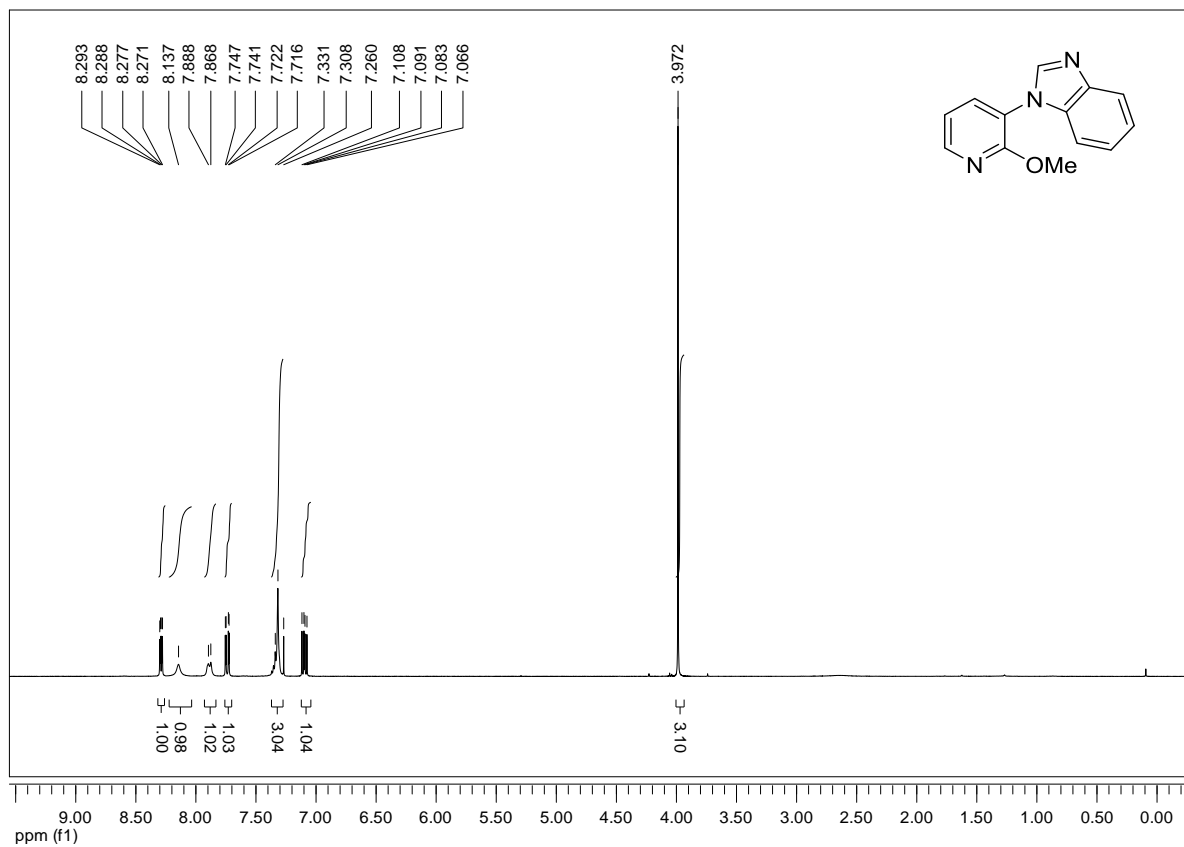
## 2-Methoxy-3-(1-pyrrolyl)pyridine (1b).



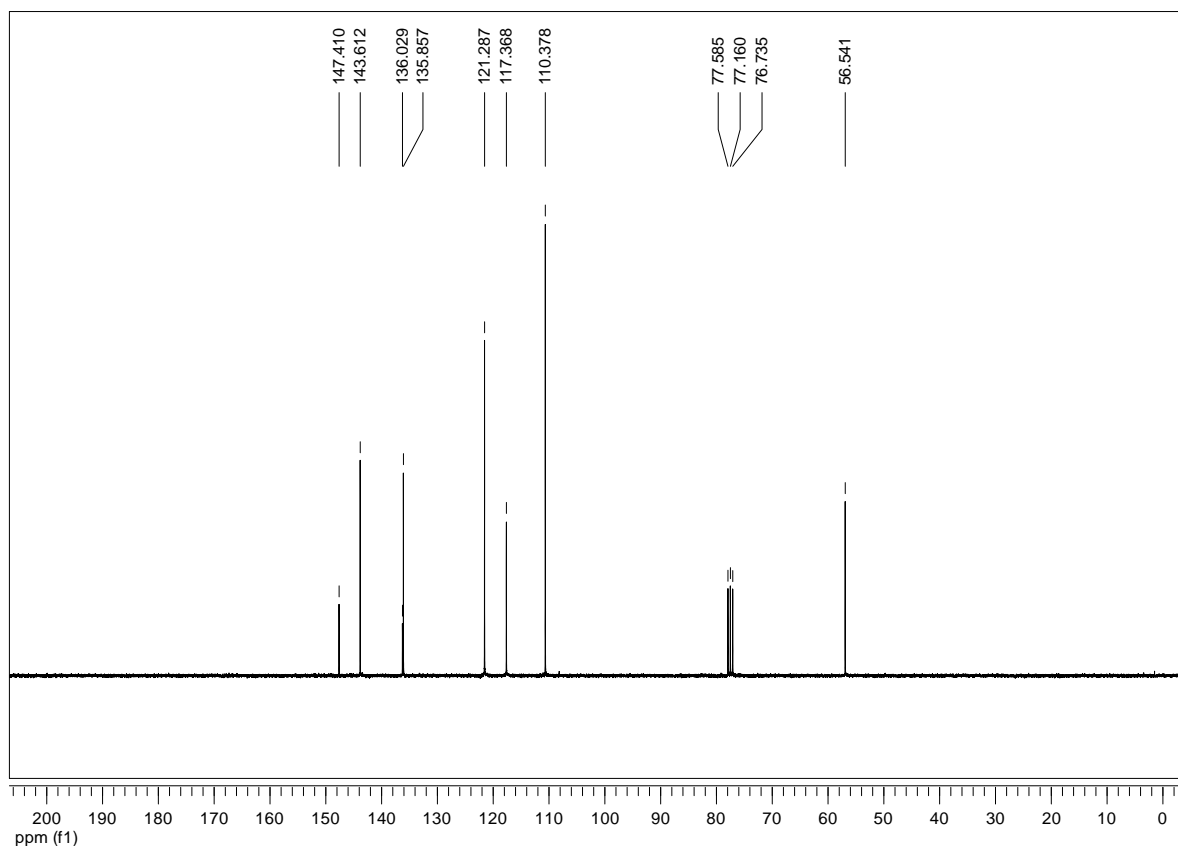
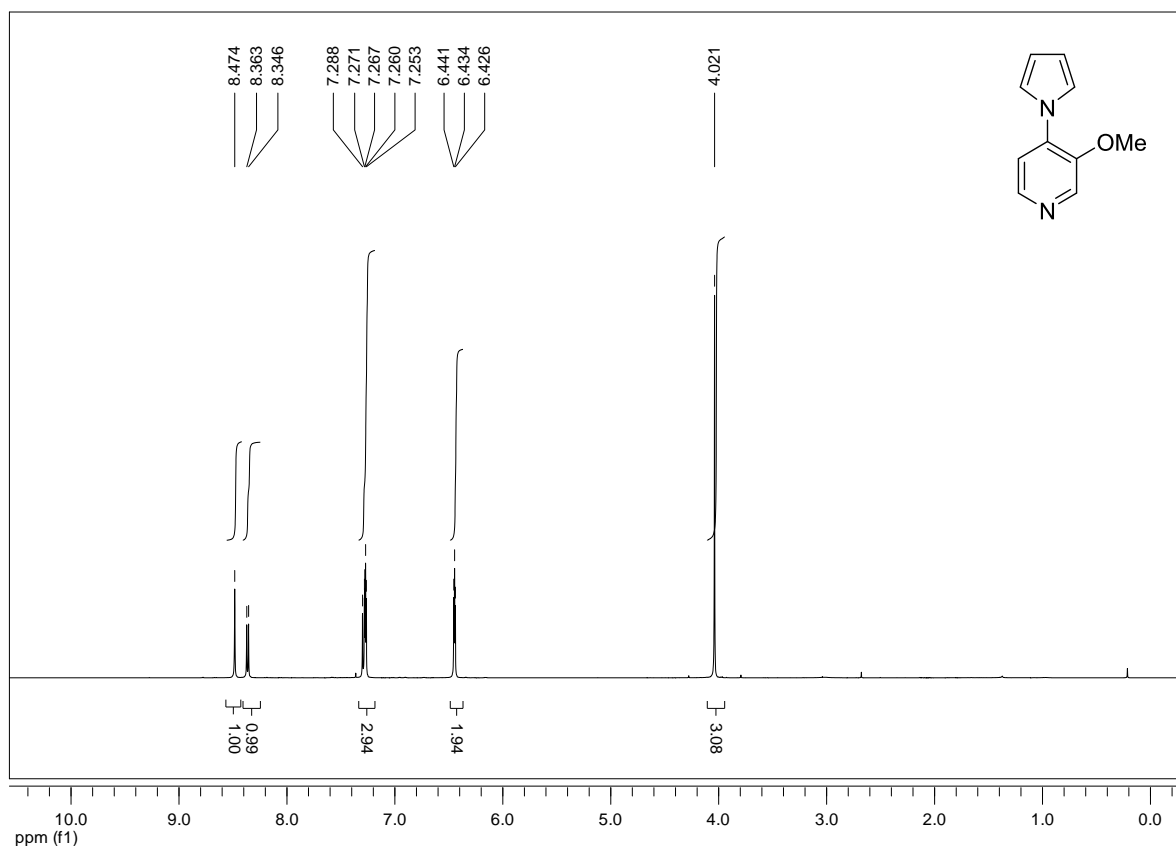
### 3-(1-Indolyl)-2-methoxypyridine (1e).



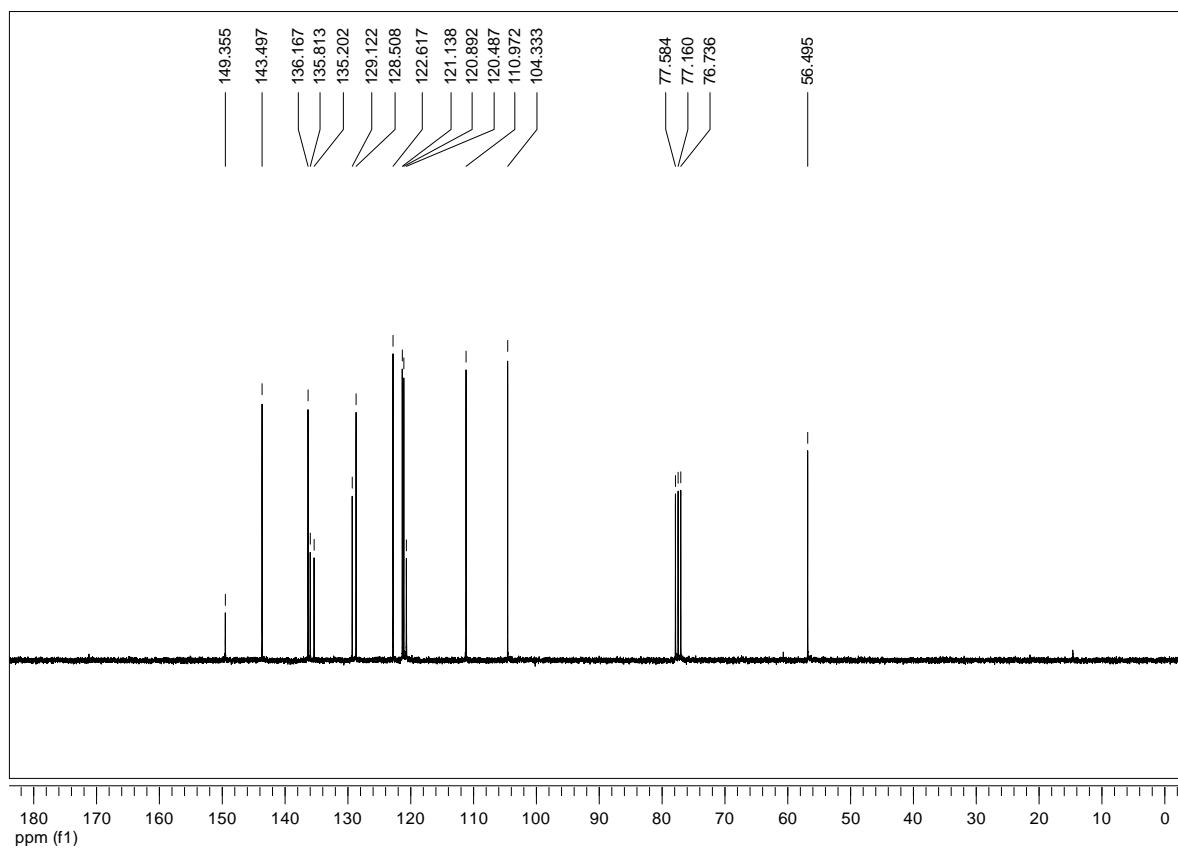
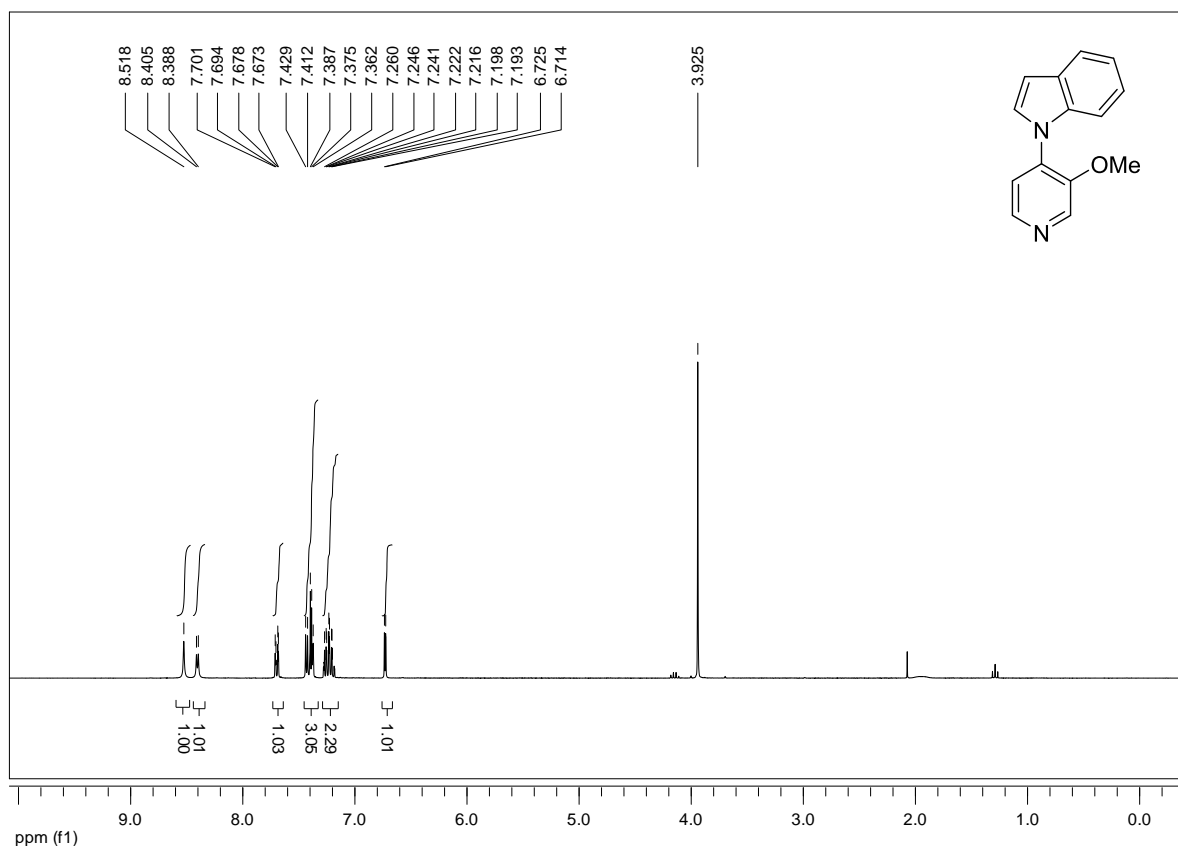
### 3-(1-Benzimidazolyl)-2-methoxypyridine (1d).



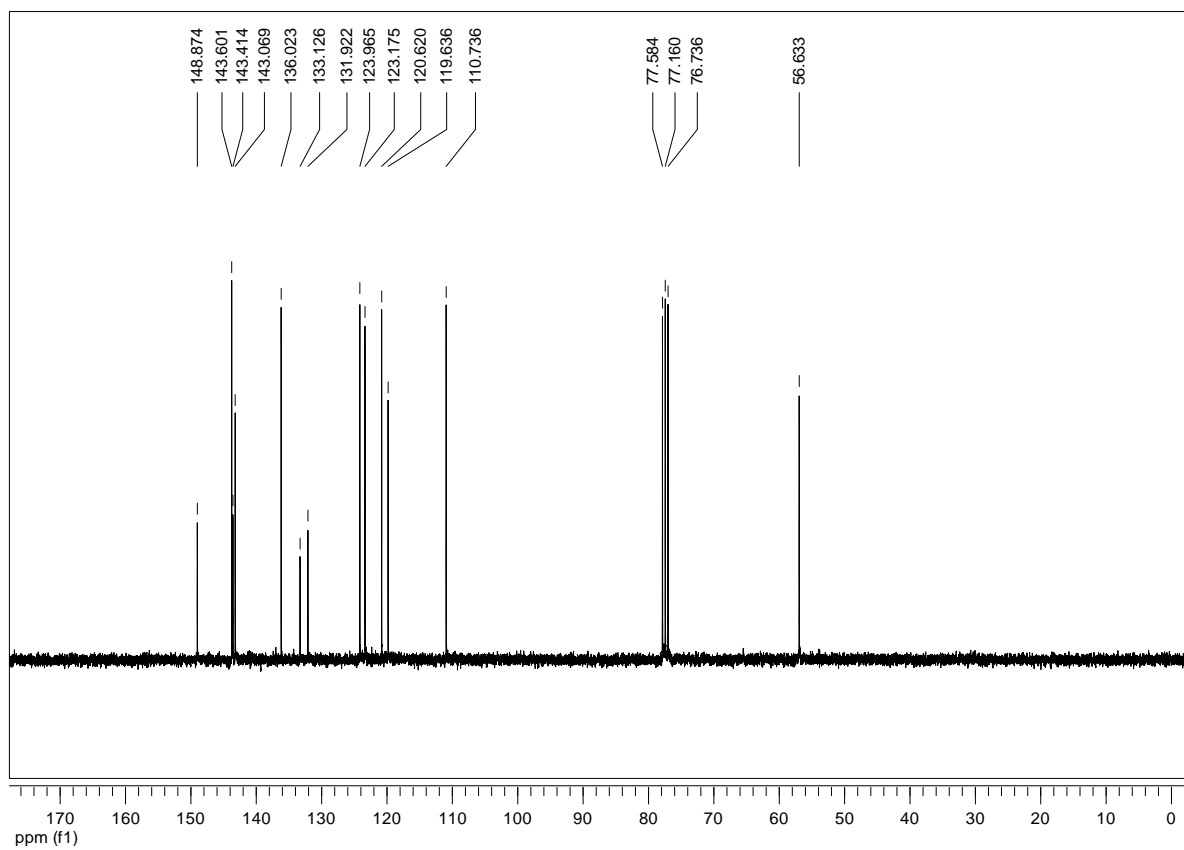
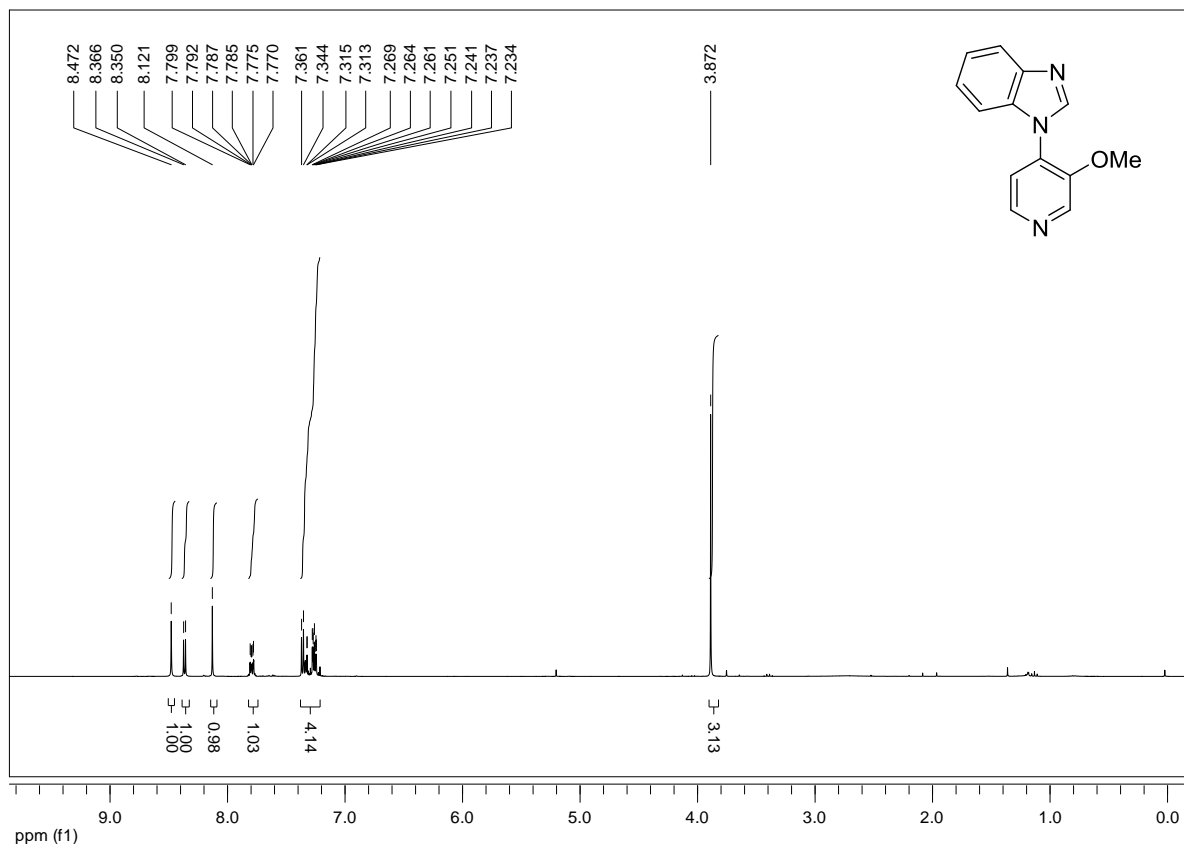
### 3-Methoxy-4-(1-pyrrolyl)pyridine (2b).



### 4-(1-Indolyl)-3-methoxypyridine (2e).

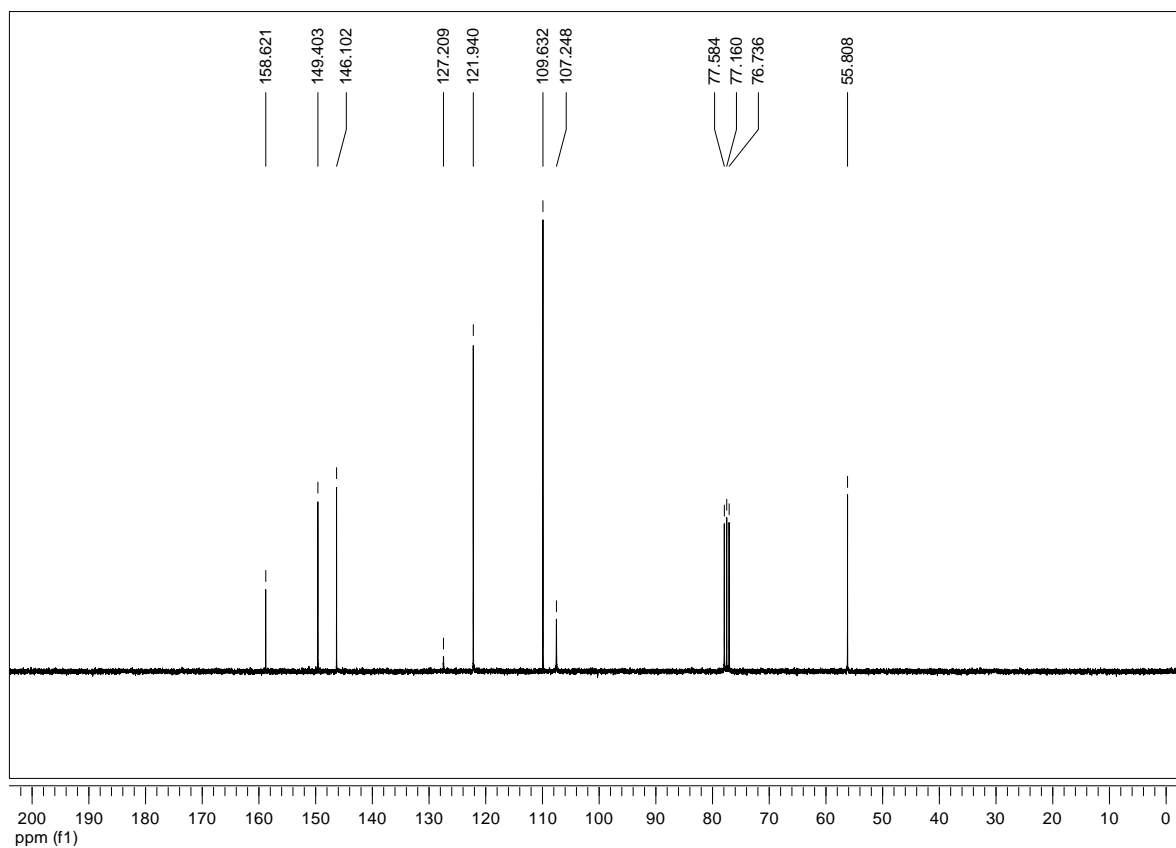
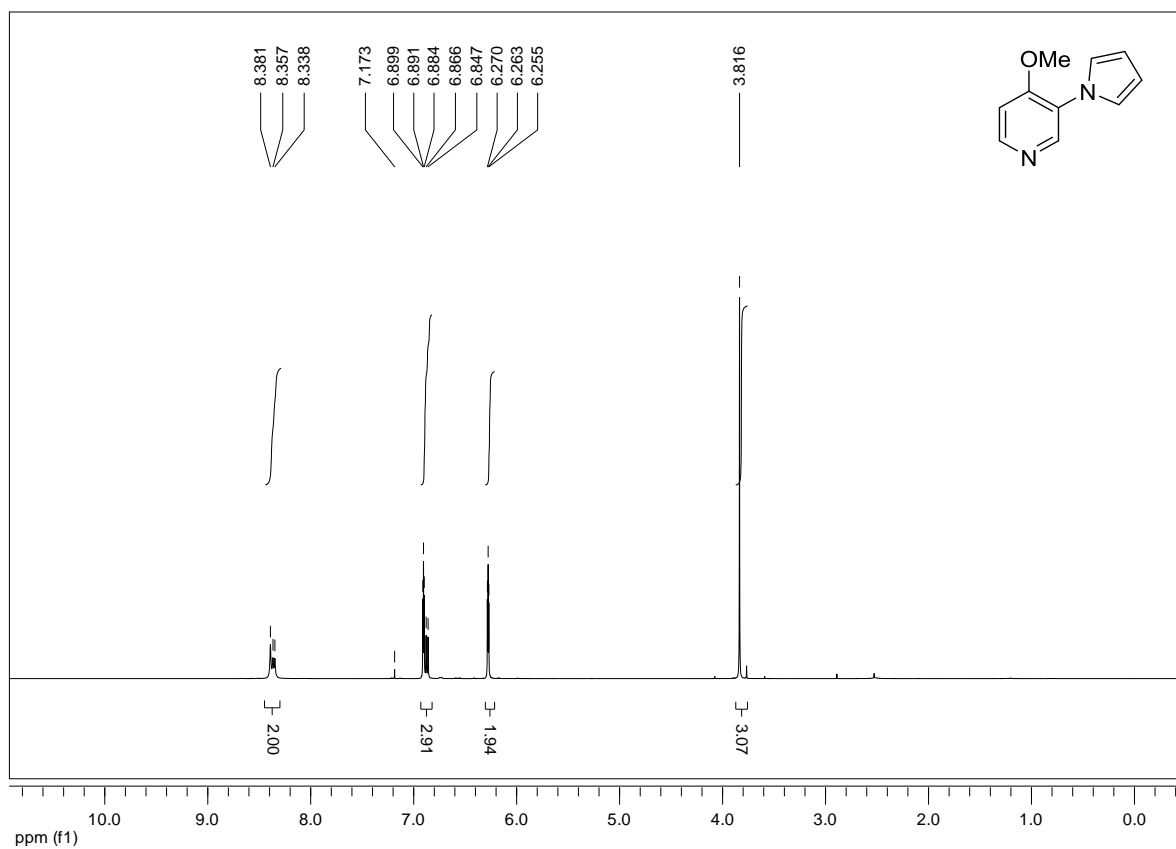


### 4-(1-Benzimidazolyl)-3-methoxypyridine (2d).

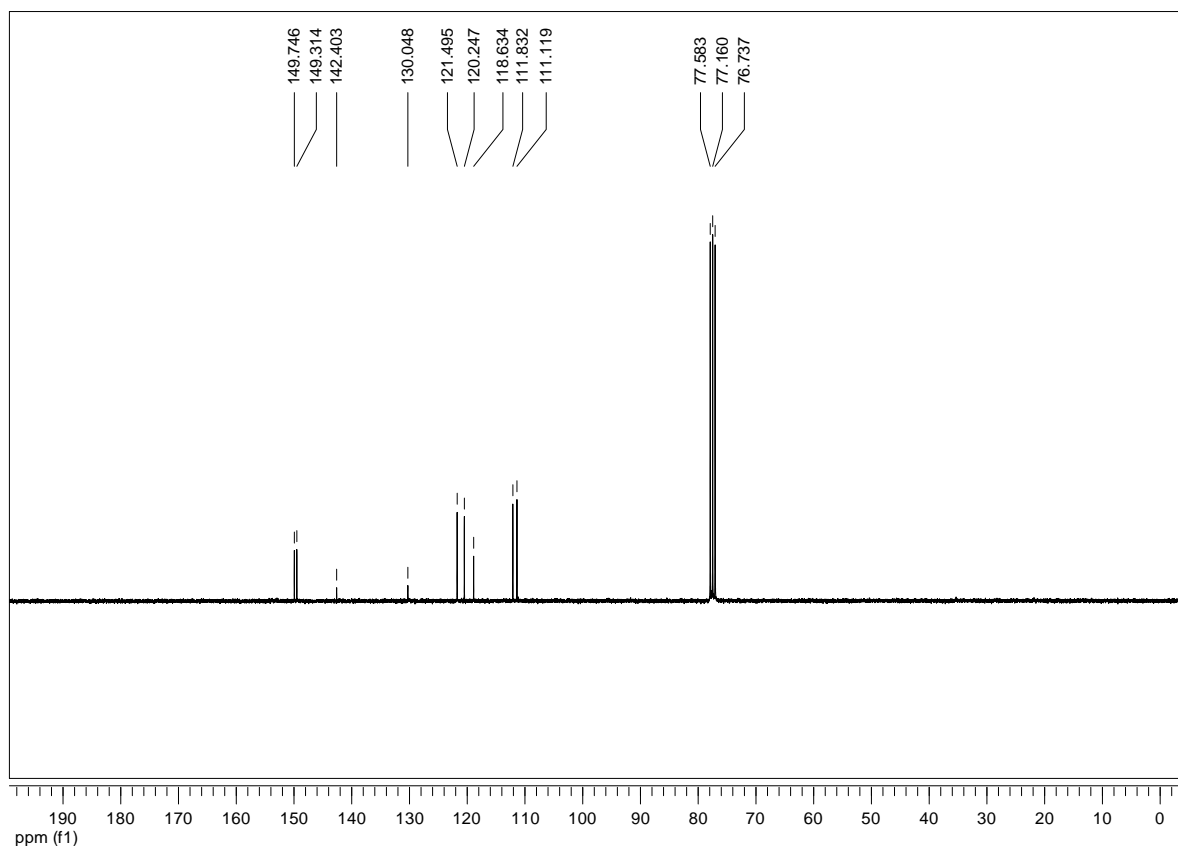
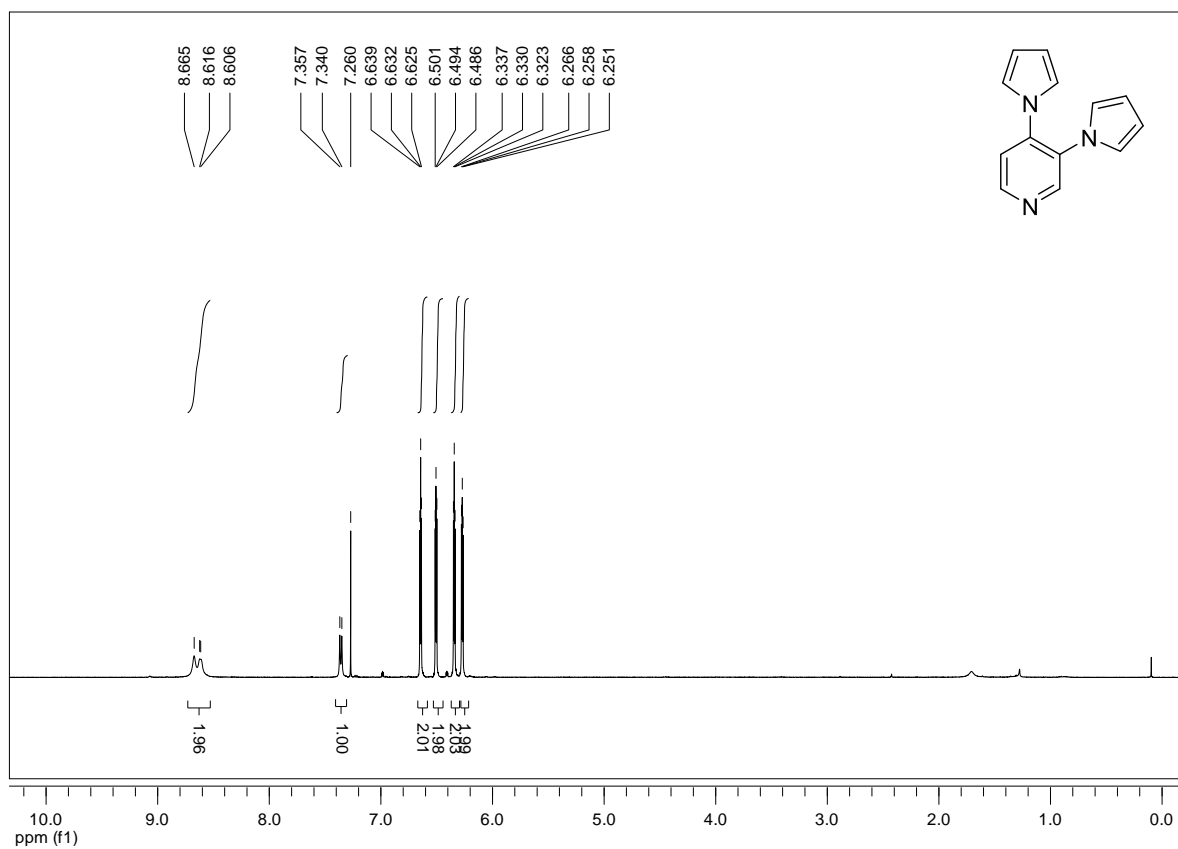




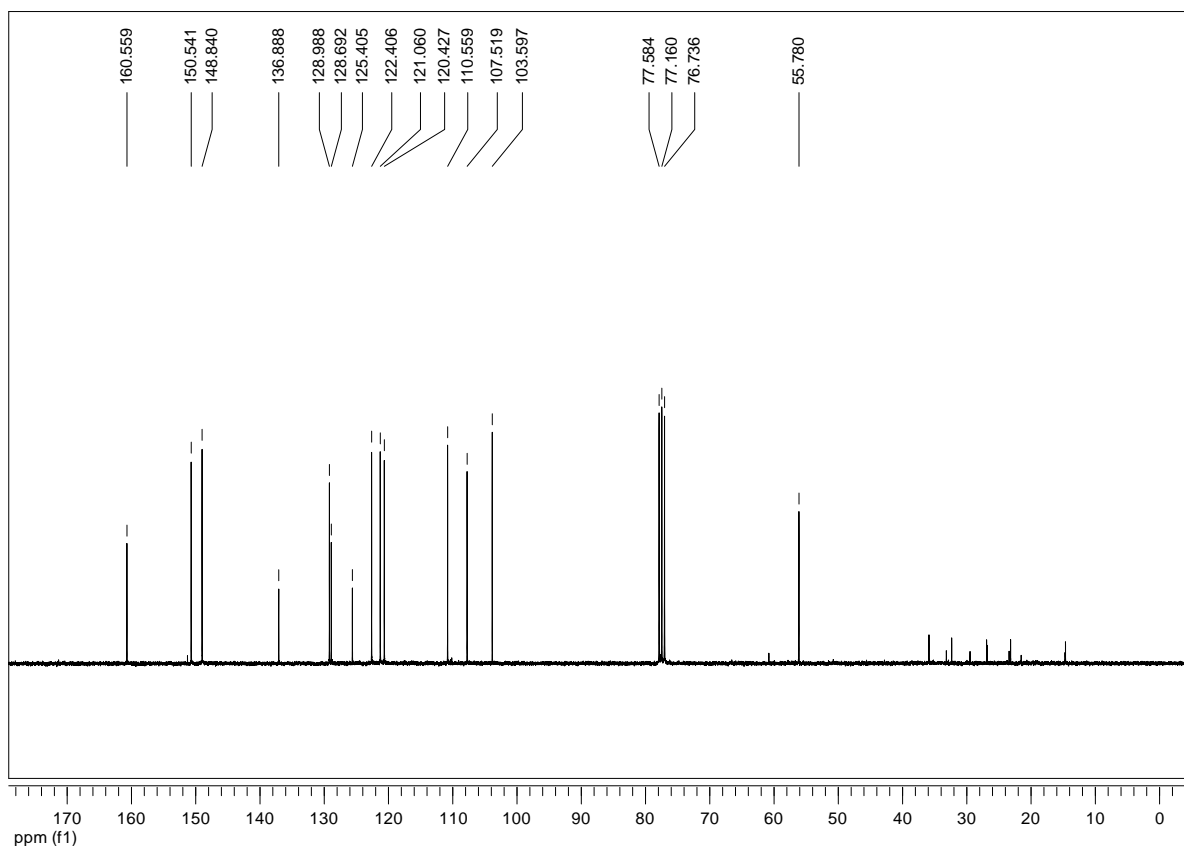
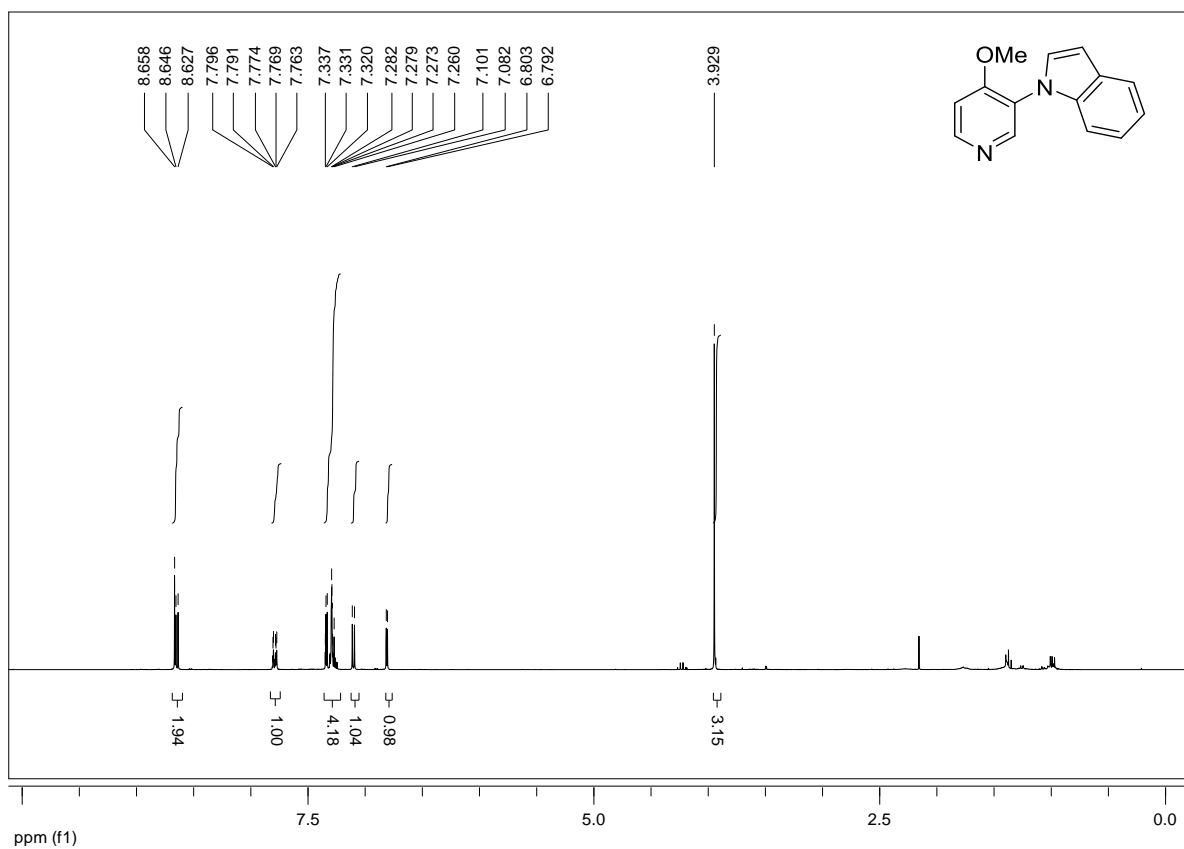
### 4-Methoxy-3-(1-pyrrolyl)pyridine (3b).



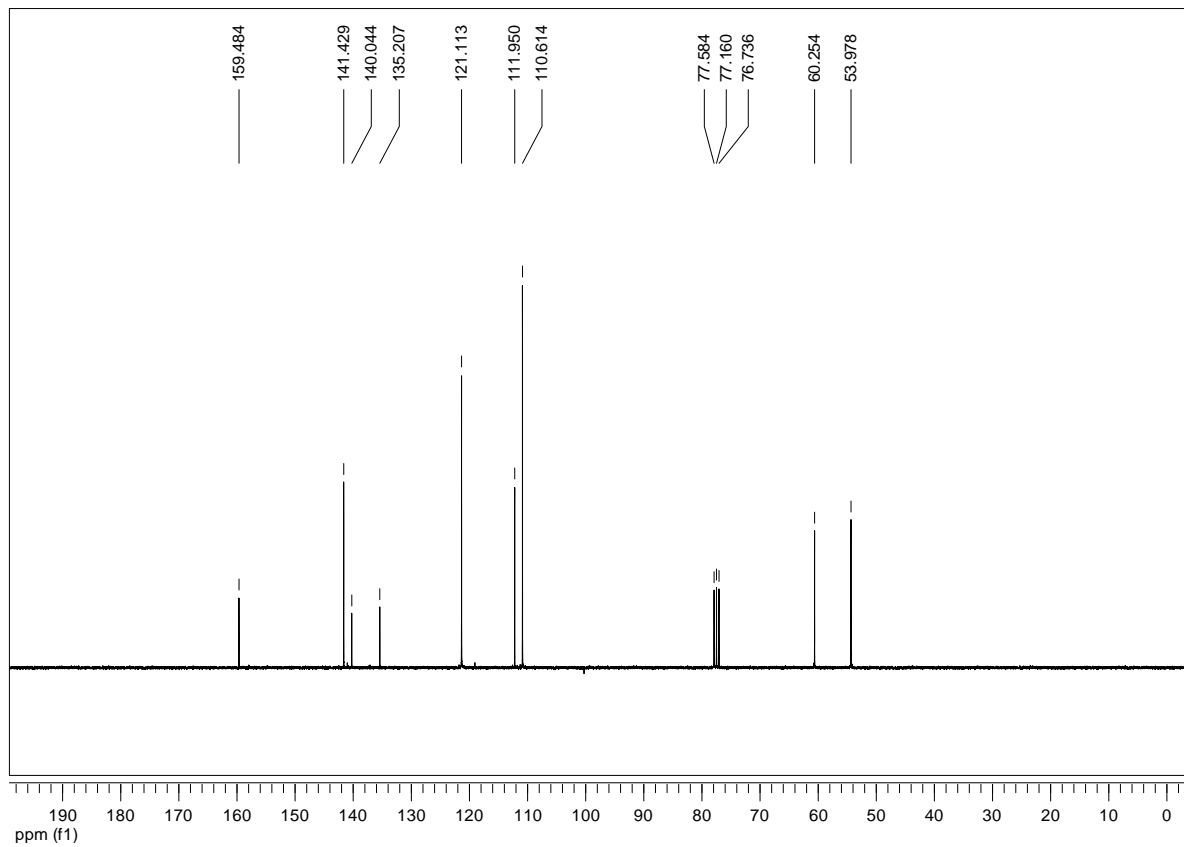
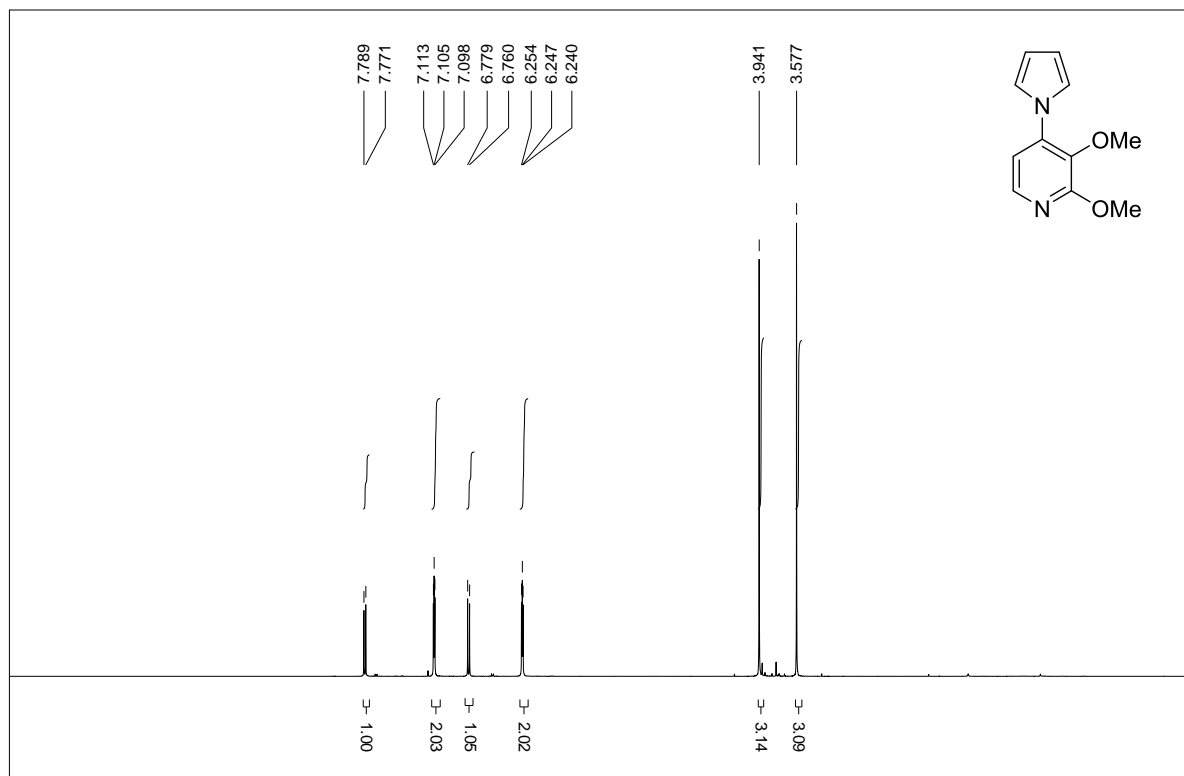
### 3,4-Bis(1-pyrryl)pyridine (3b<sup>''</sup>).



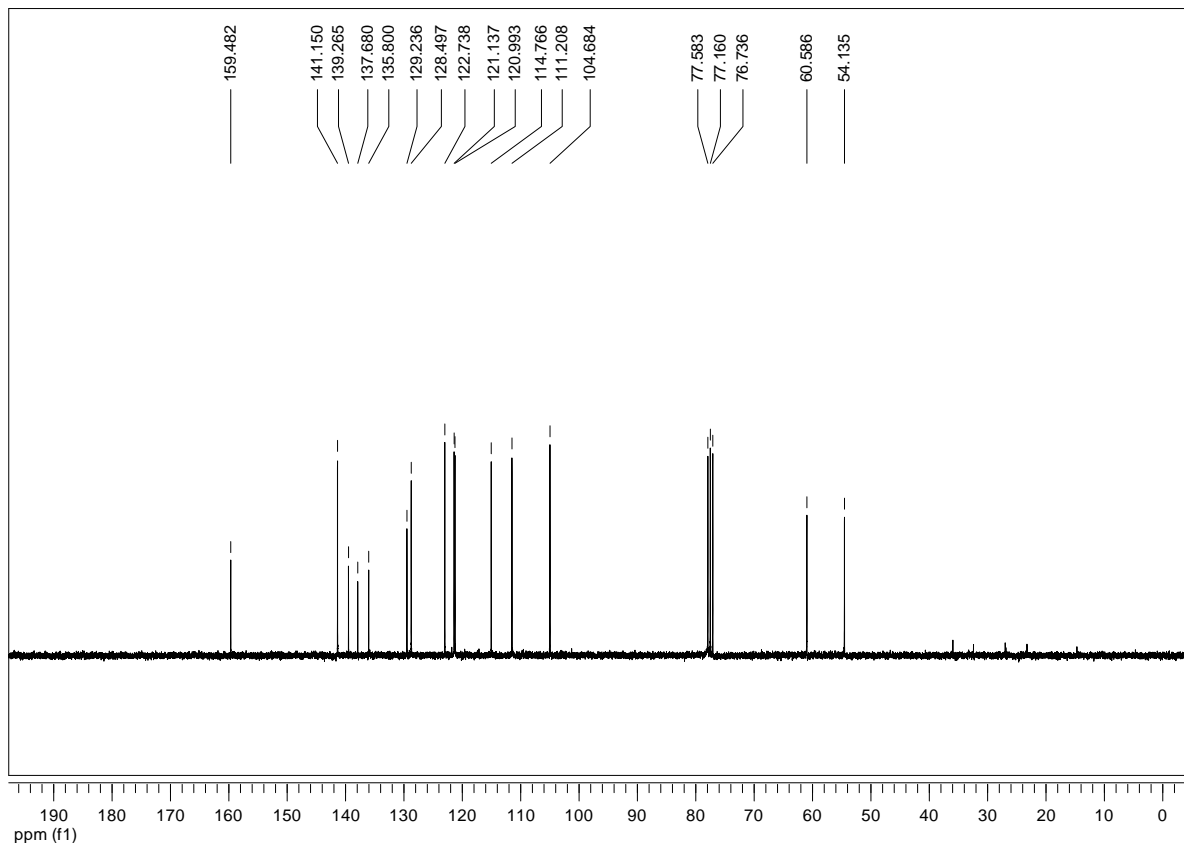
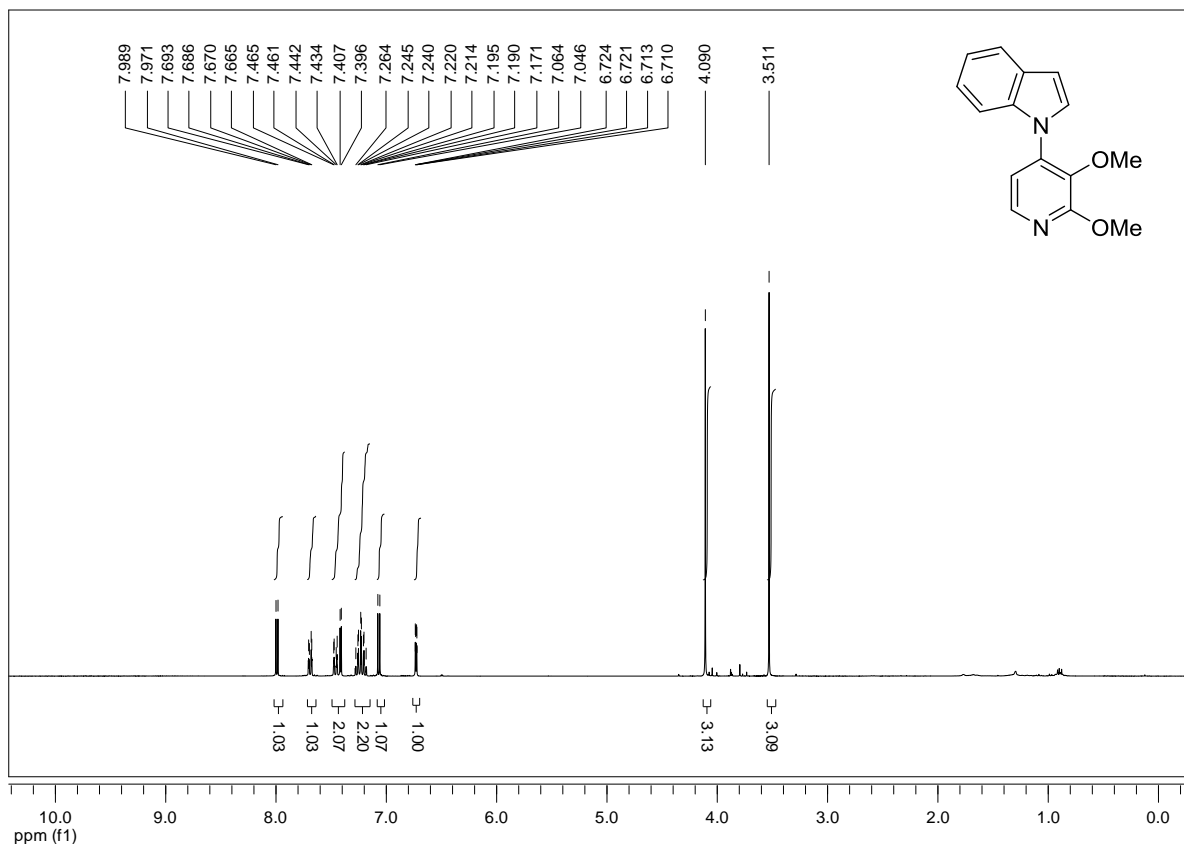
### 3-(1-Indolyl)-4-methoxypyridine (3e).



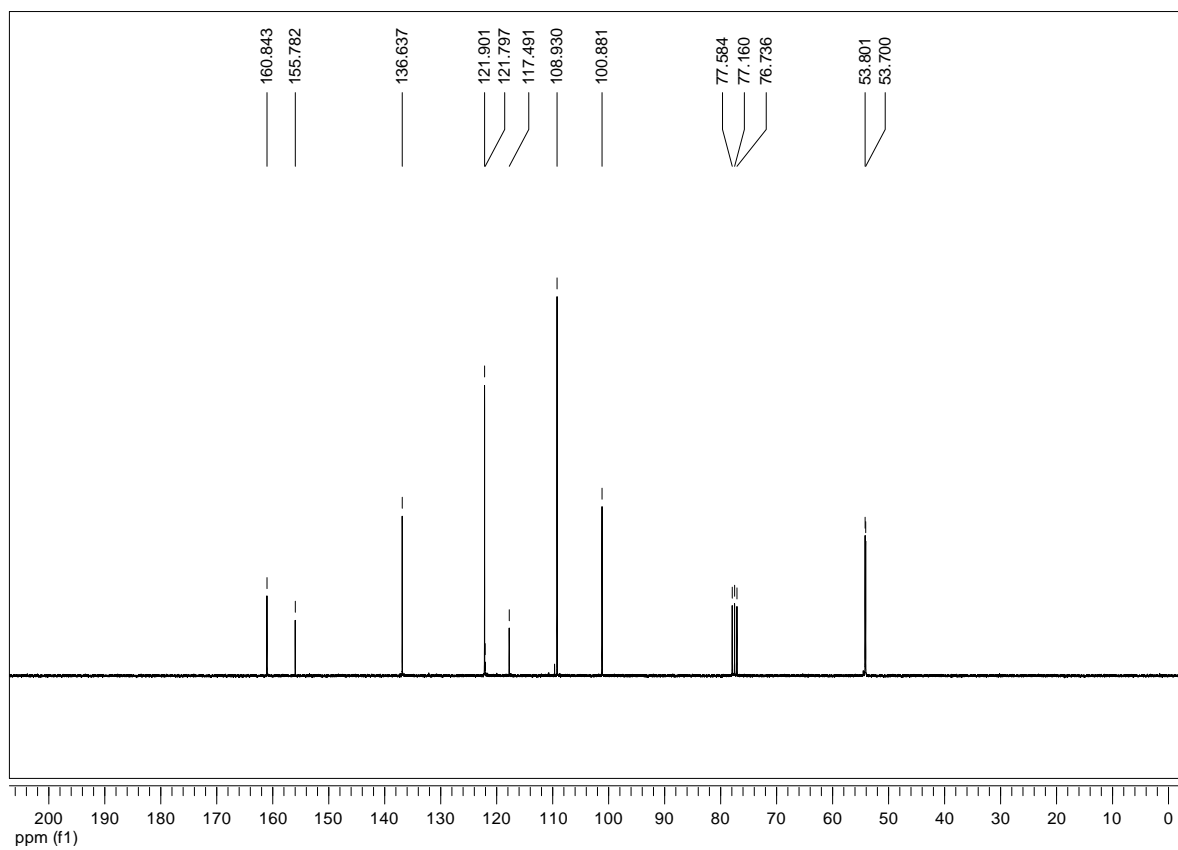
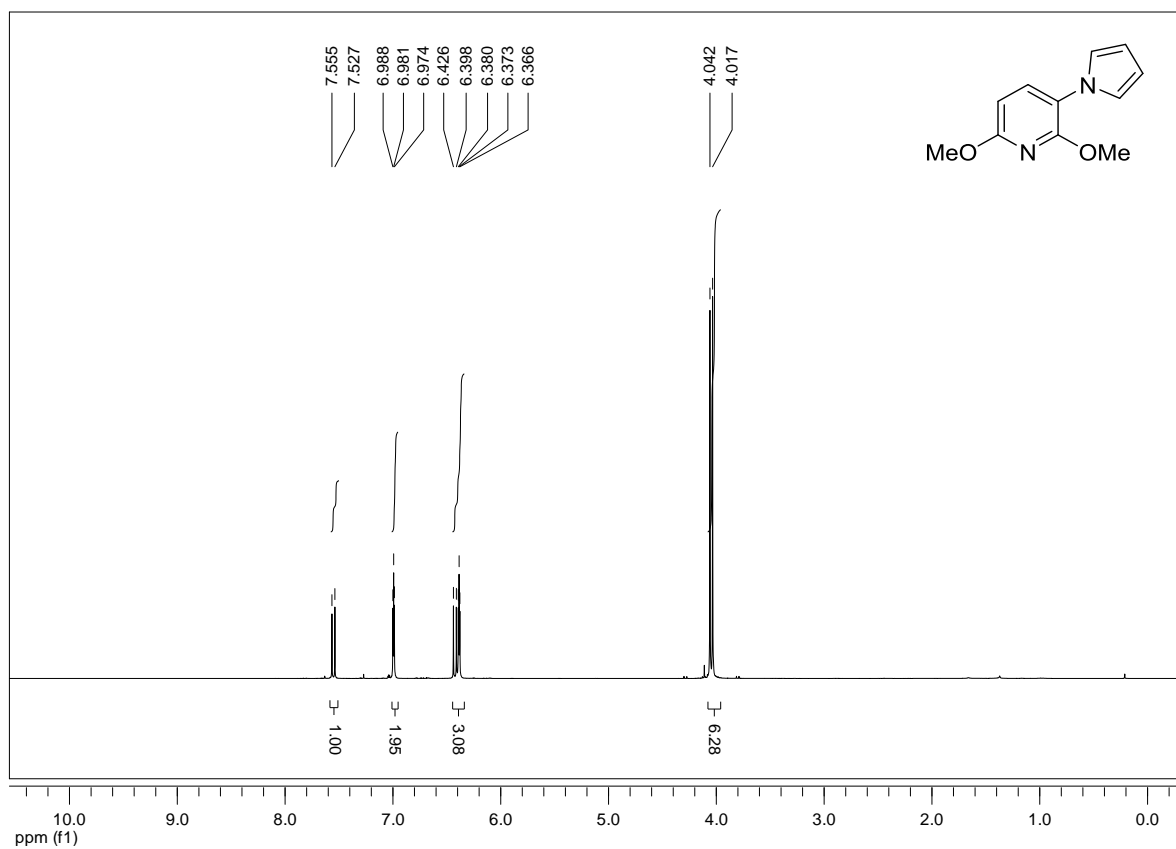
### 2,3-Dimethoxy-4-(1-pyrrolyl)pyridine (4b).



### 4-(1-Indolyl)-2,3-dimethoxypyridine (4e).



## 2,6-Dimethoxy-3-(1-pyrrolyl)pyridine (5b).



### 3-(1-Indolyl)-2,6-dimethoxypyridine (5e).

