

## **Discovery of novel $\beta$ -elemene hybrids with hydrogen sulfide releasing moiety possessing cardiovascular protective activity for the treatment of atherosclerosis**

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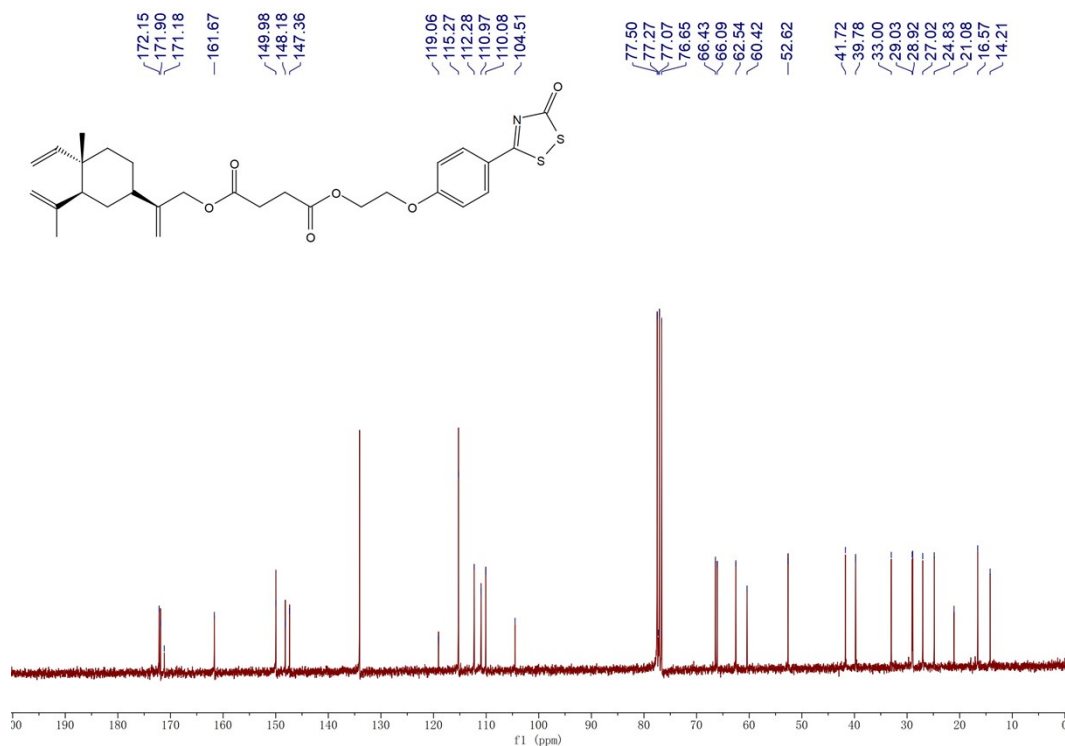
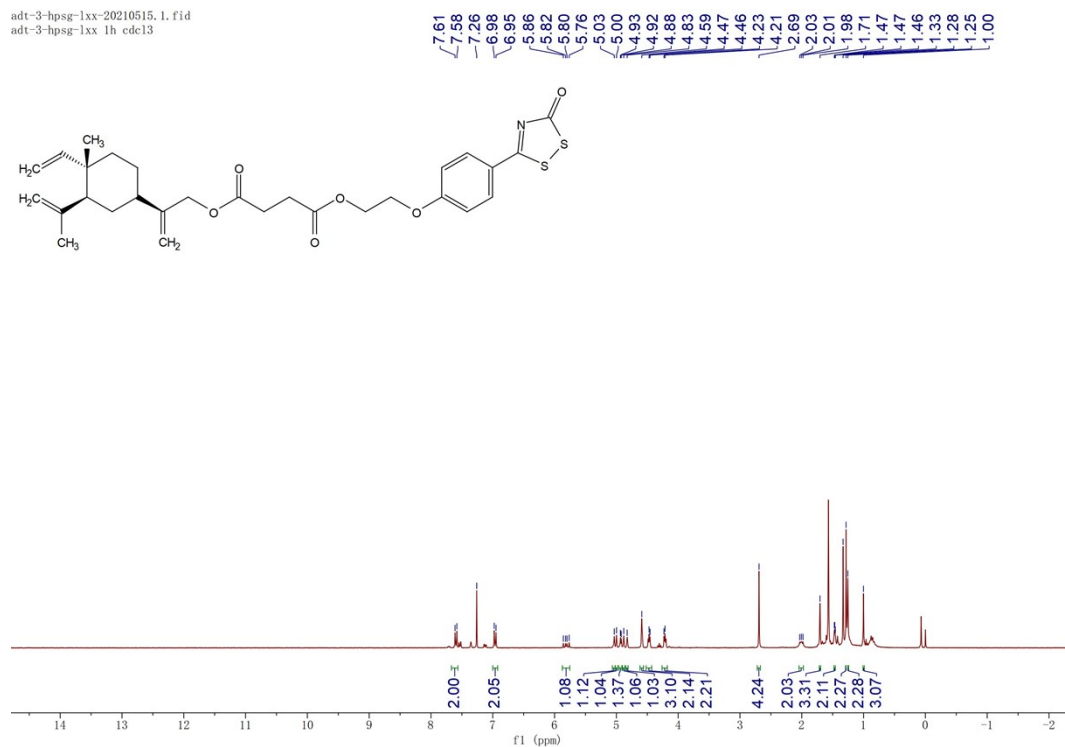
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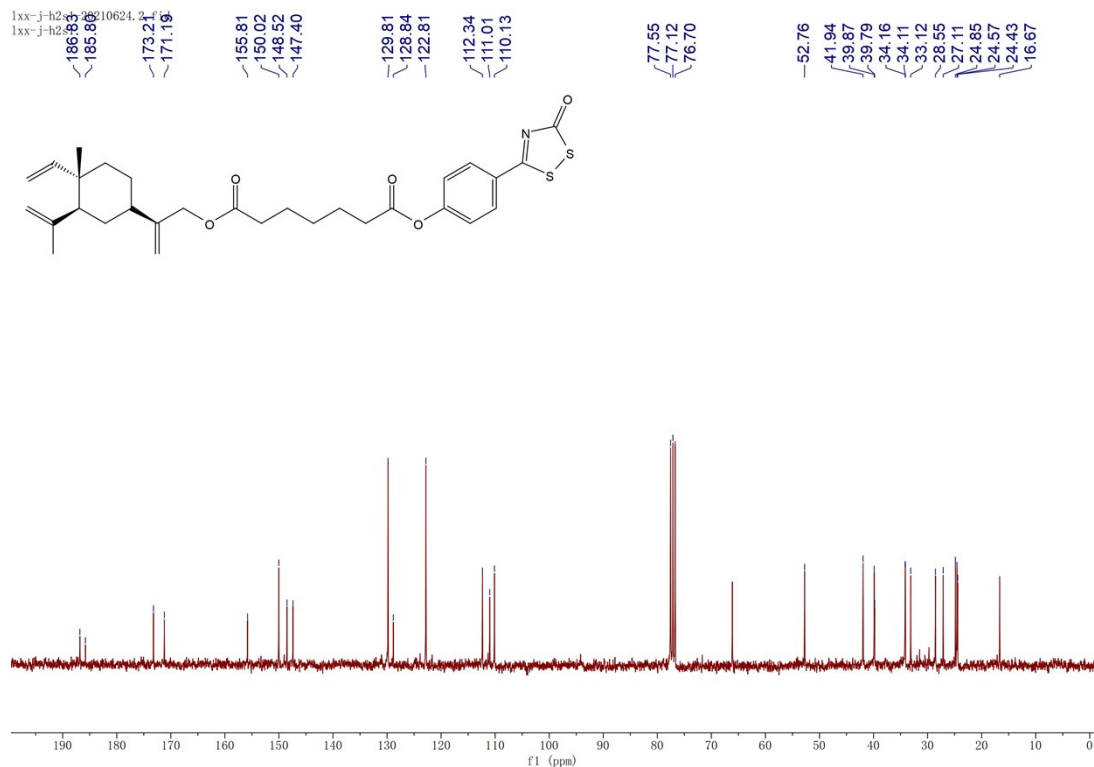
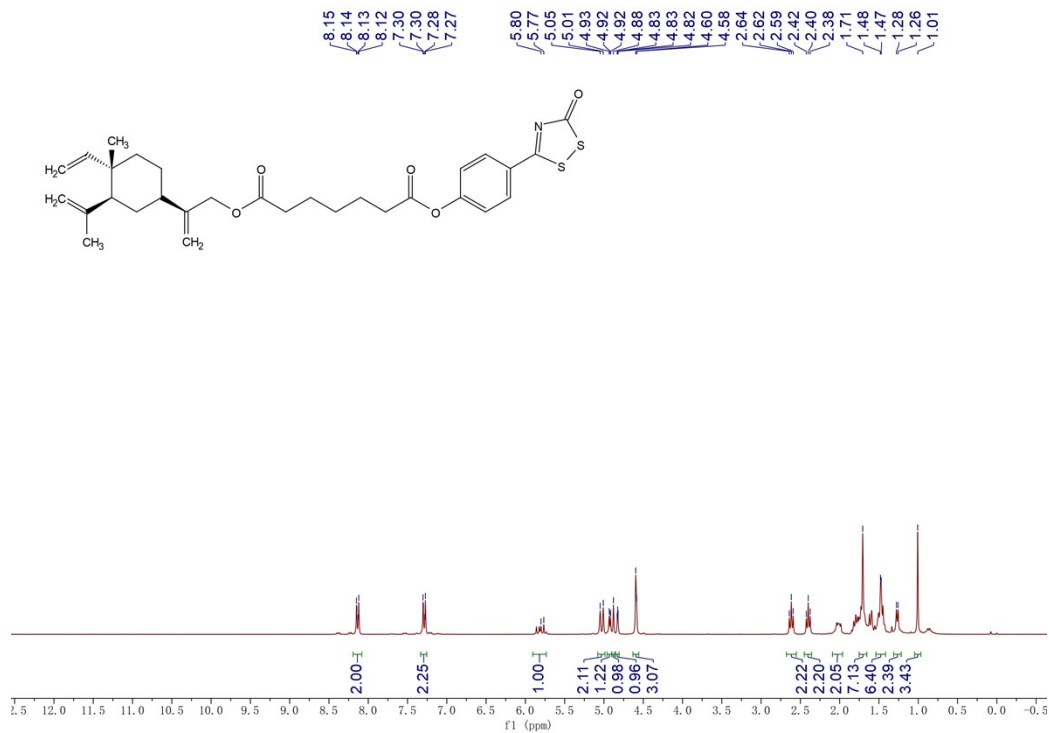
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## <sup>1</sup>H NMR and <sup>13</sup>C NMR of compound L13-1a

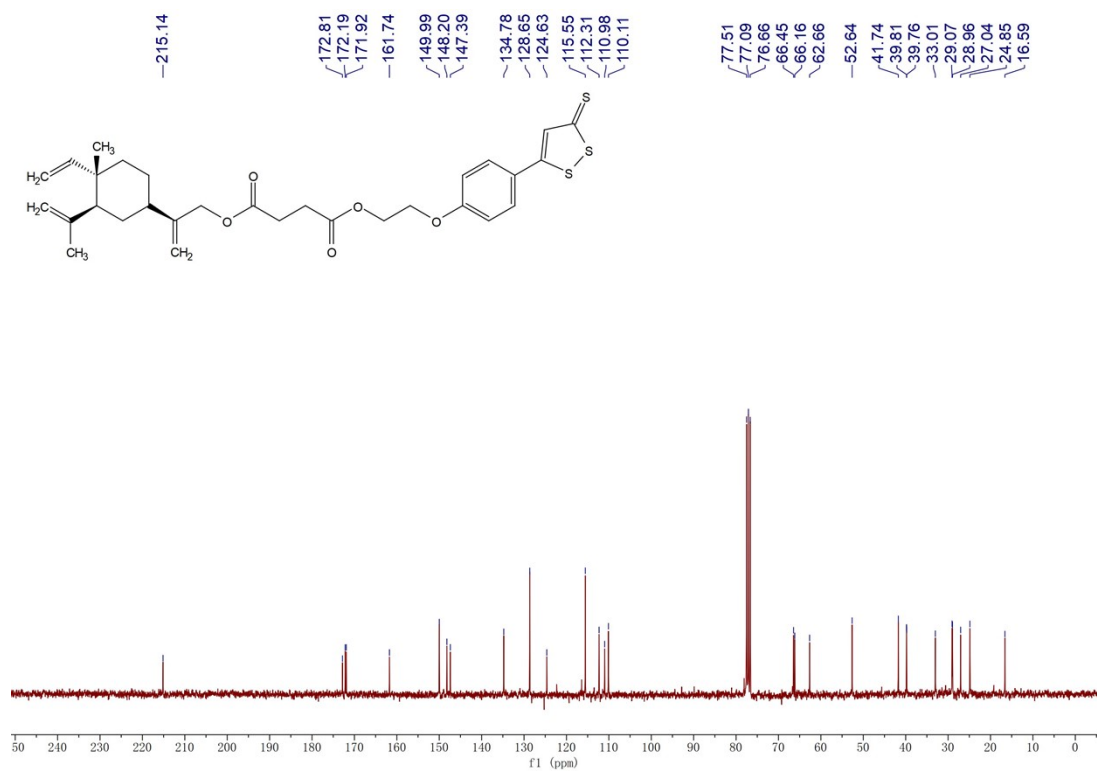
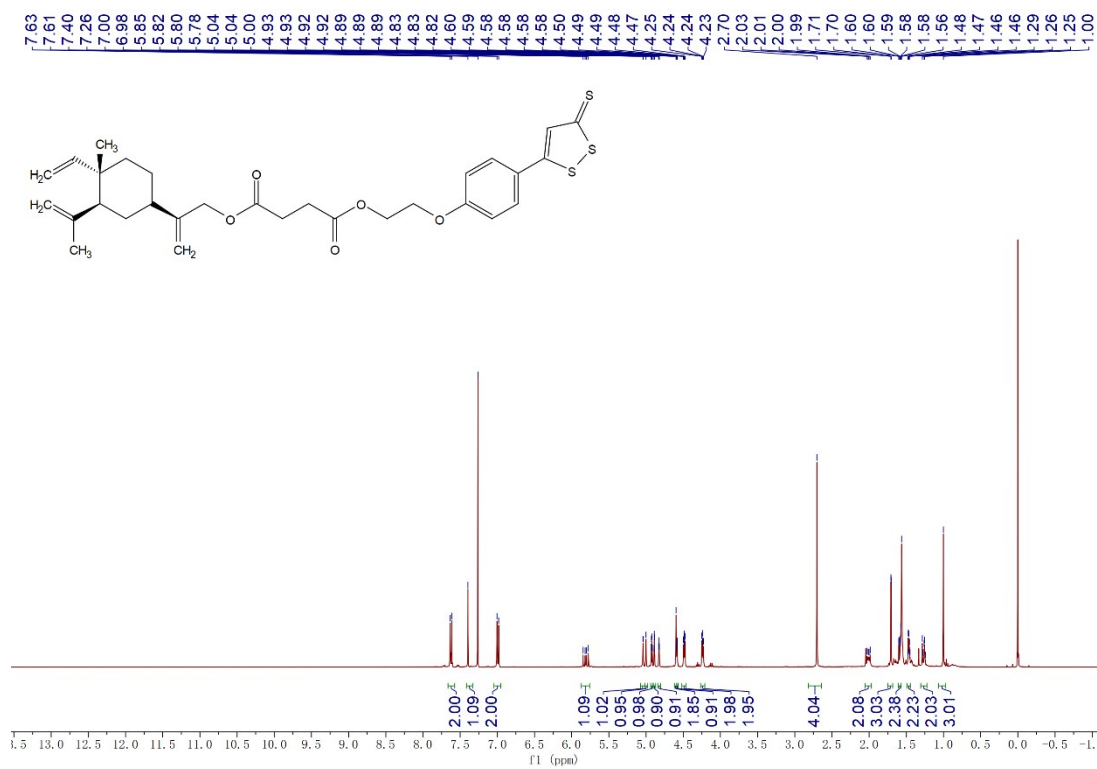
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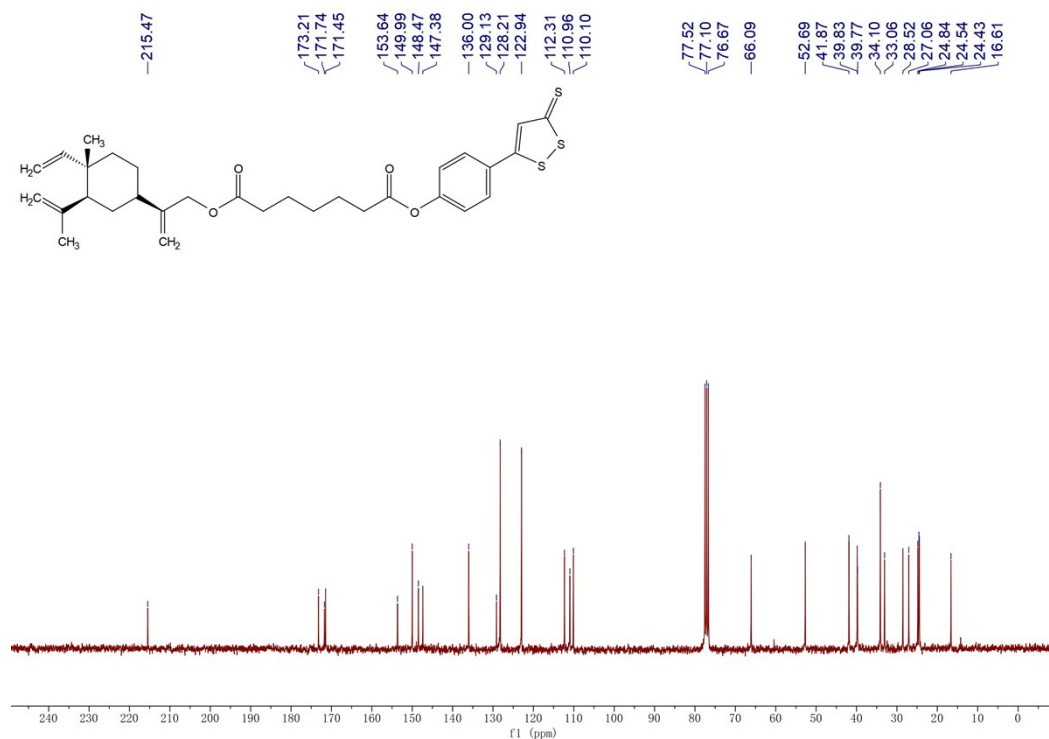
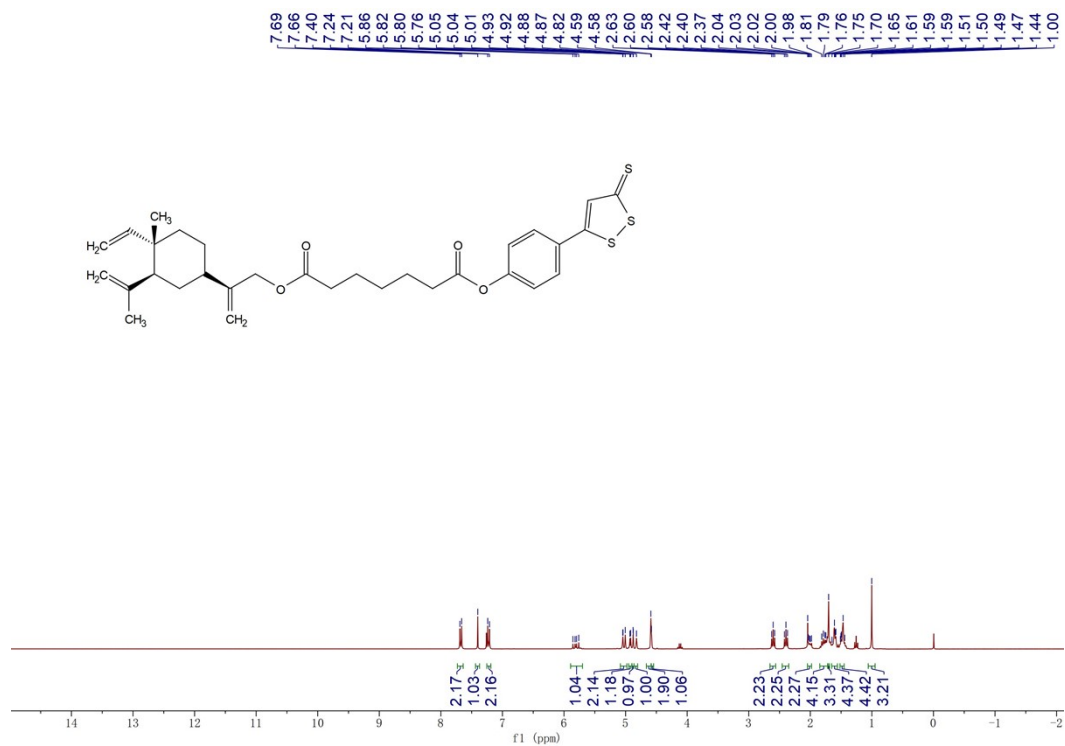
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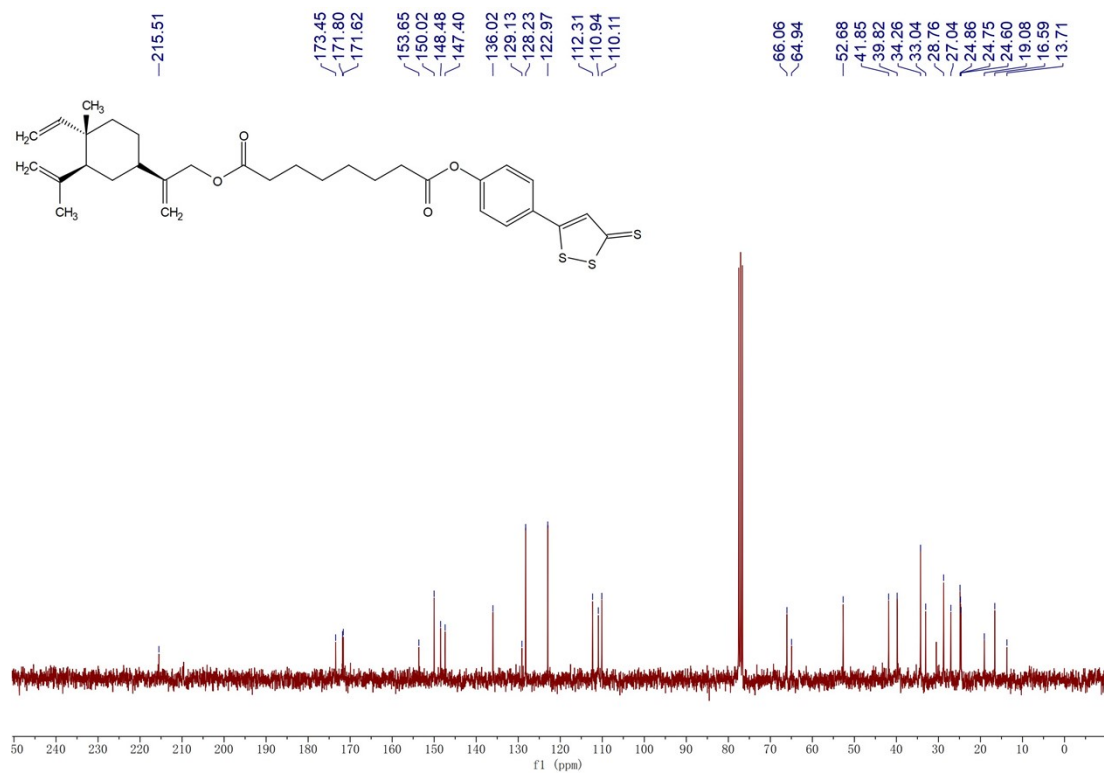
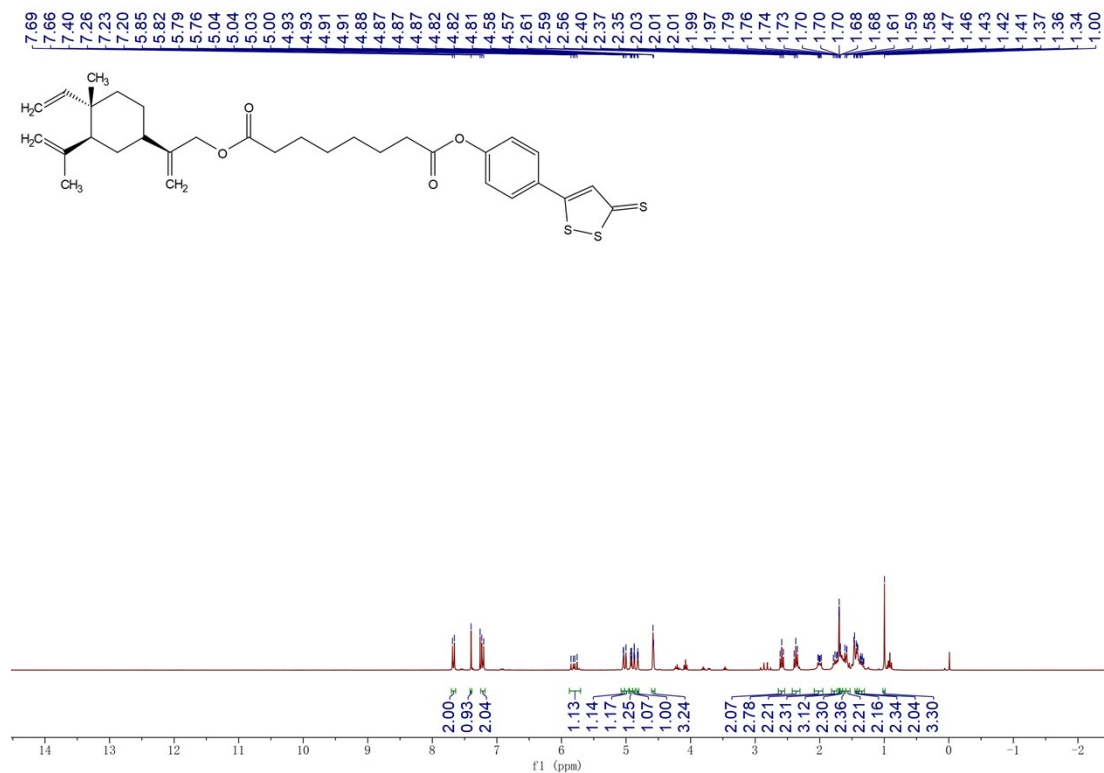
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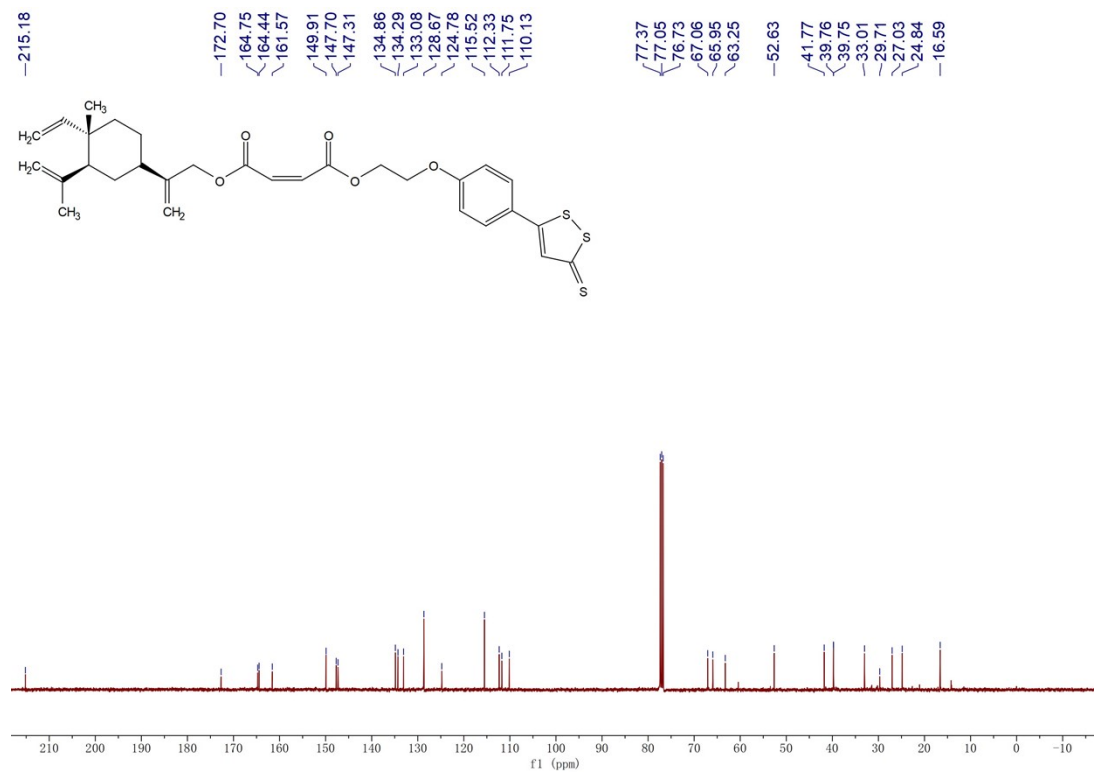
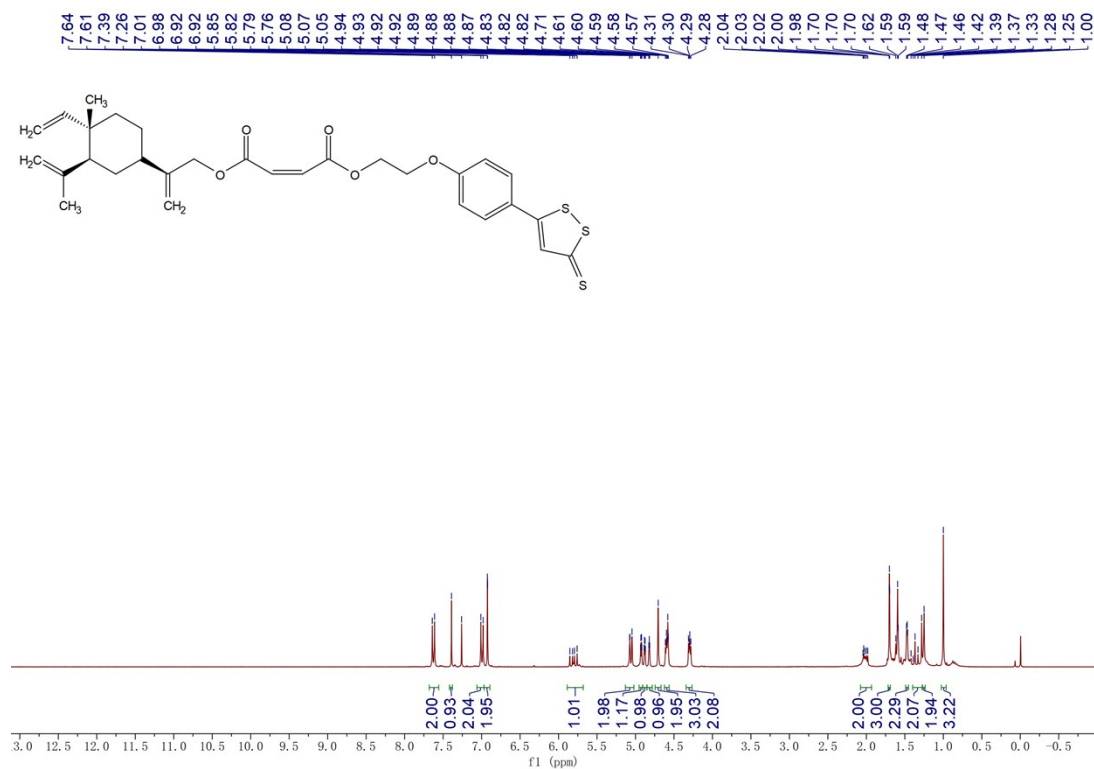
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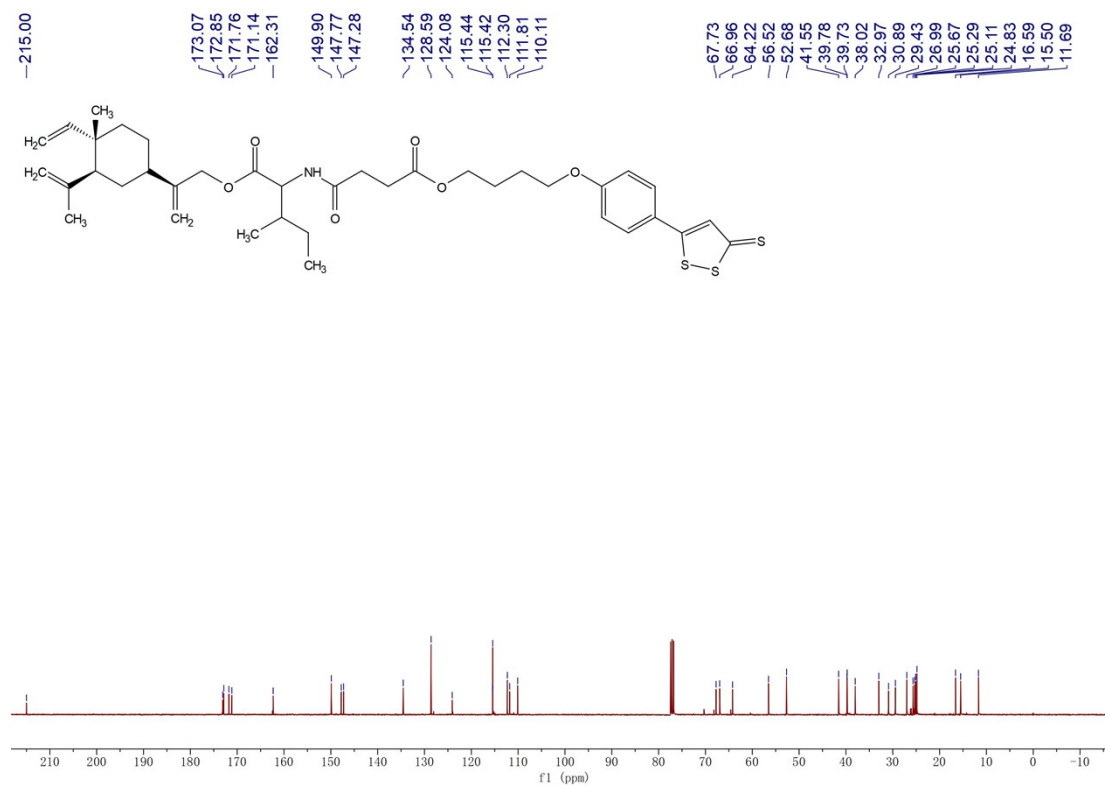
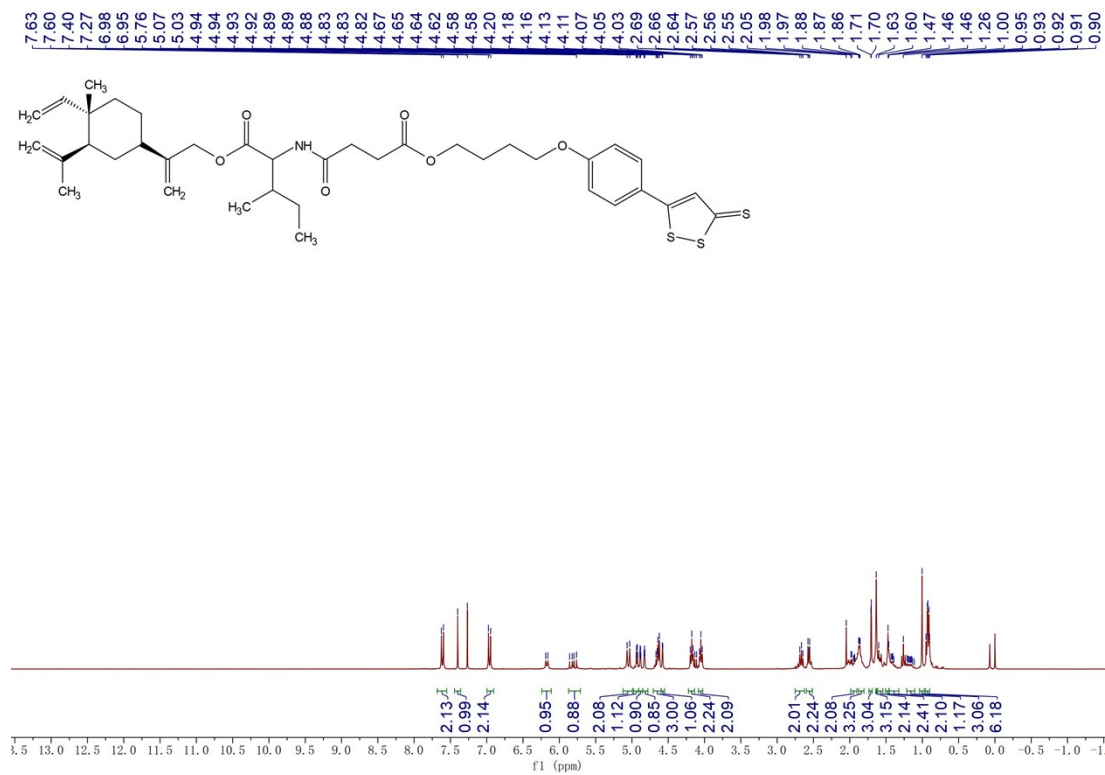


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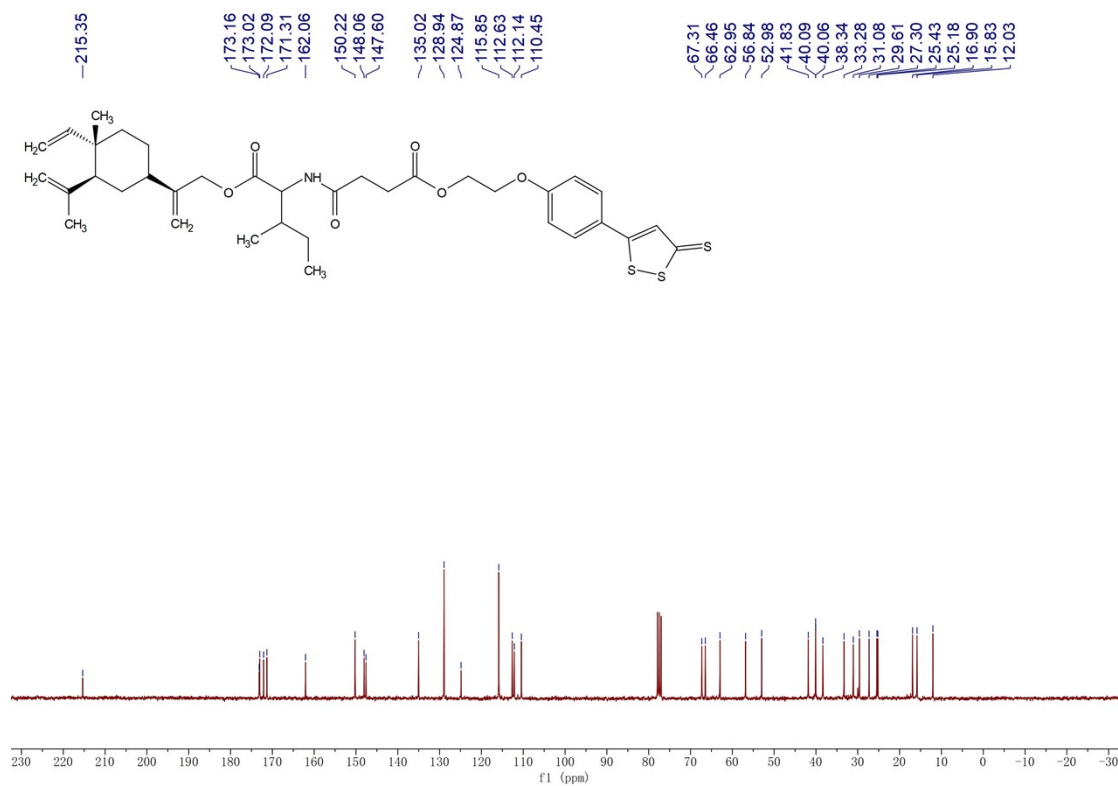
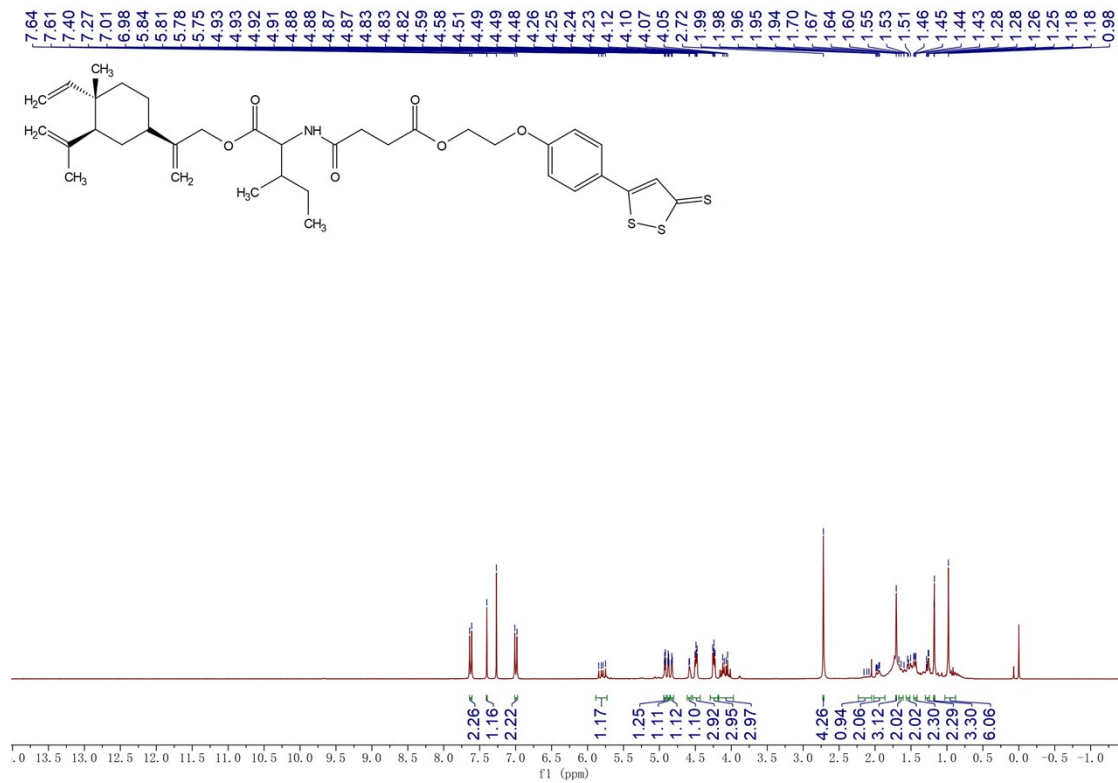




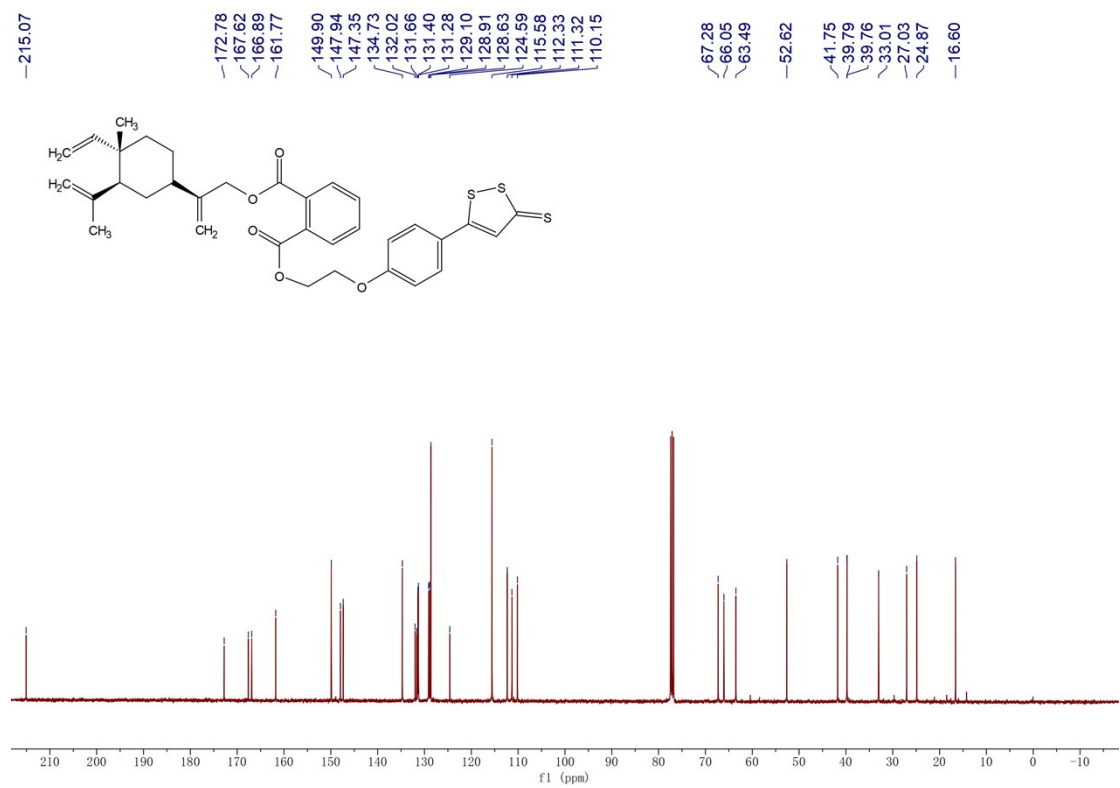
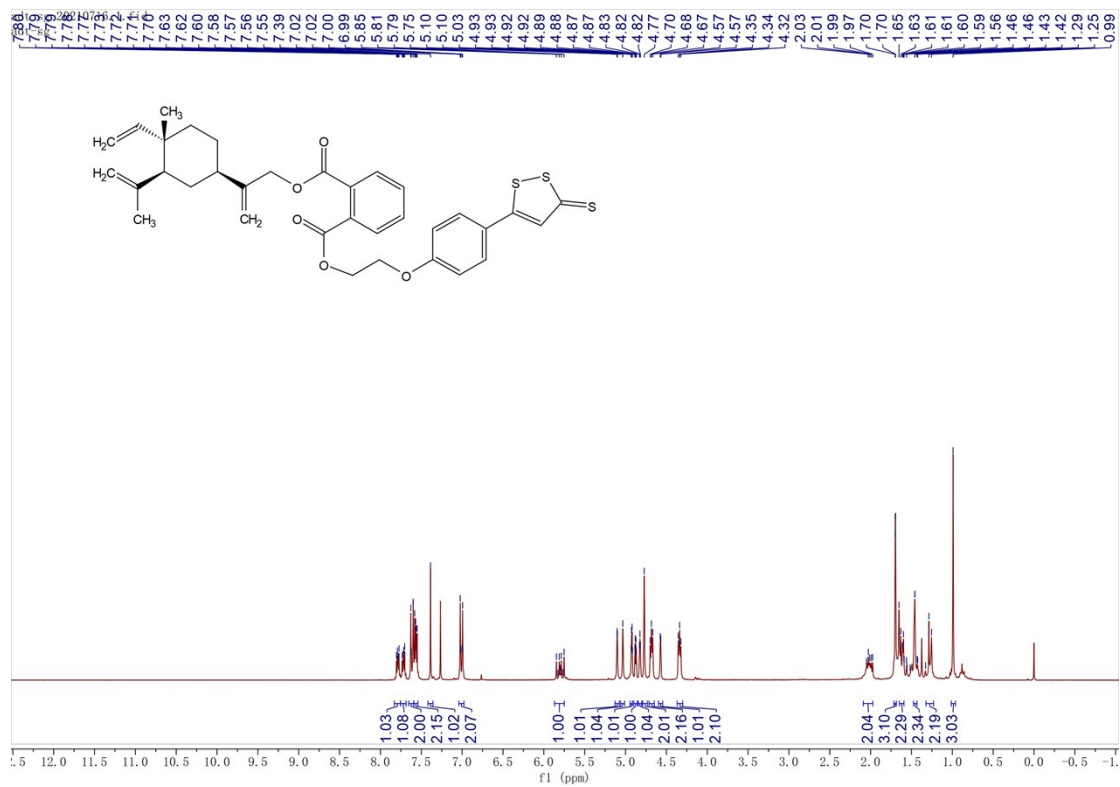
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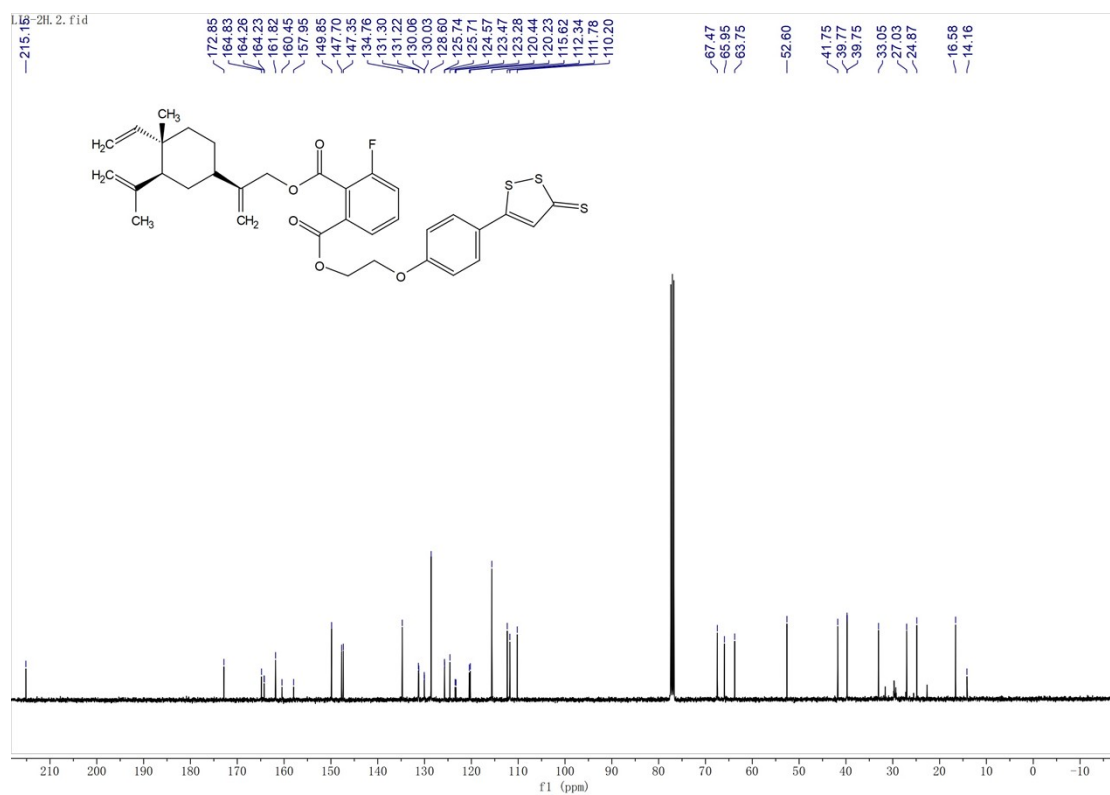
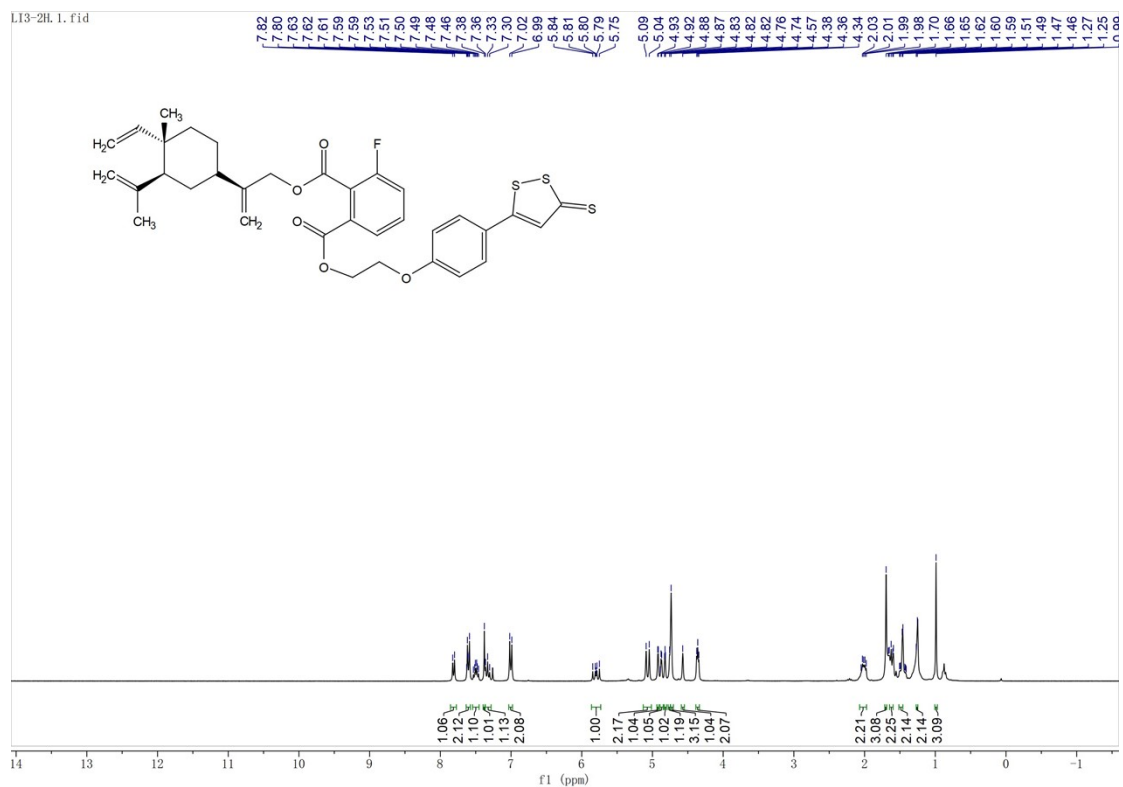
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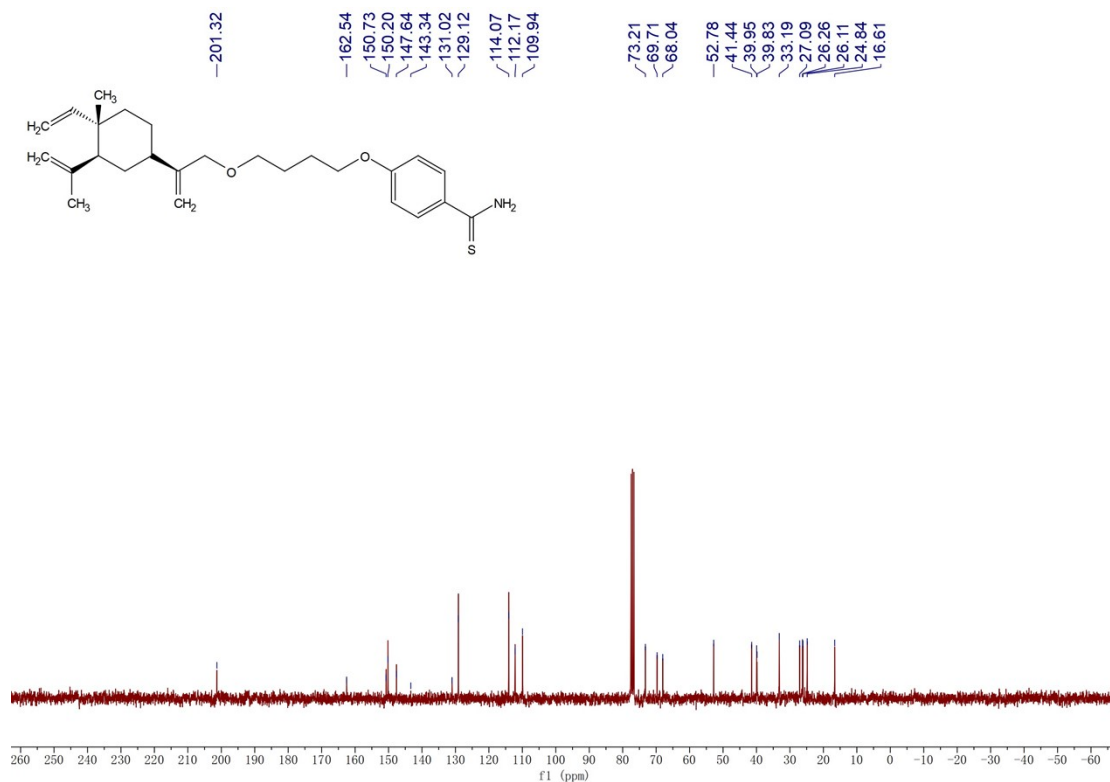
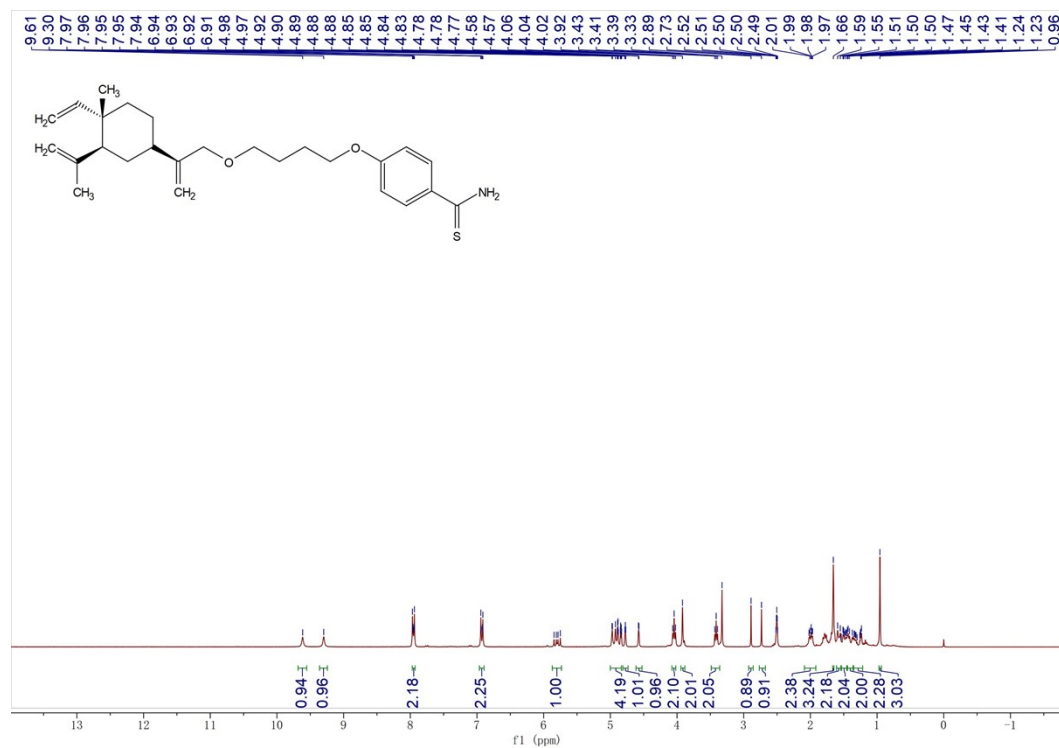
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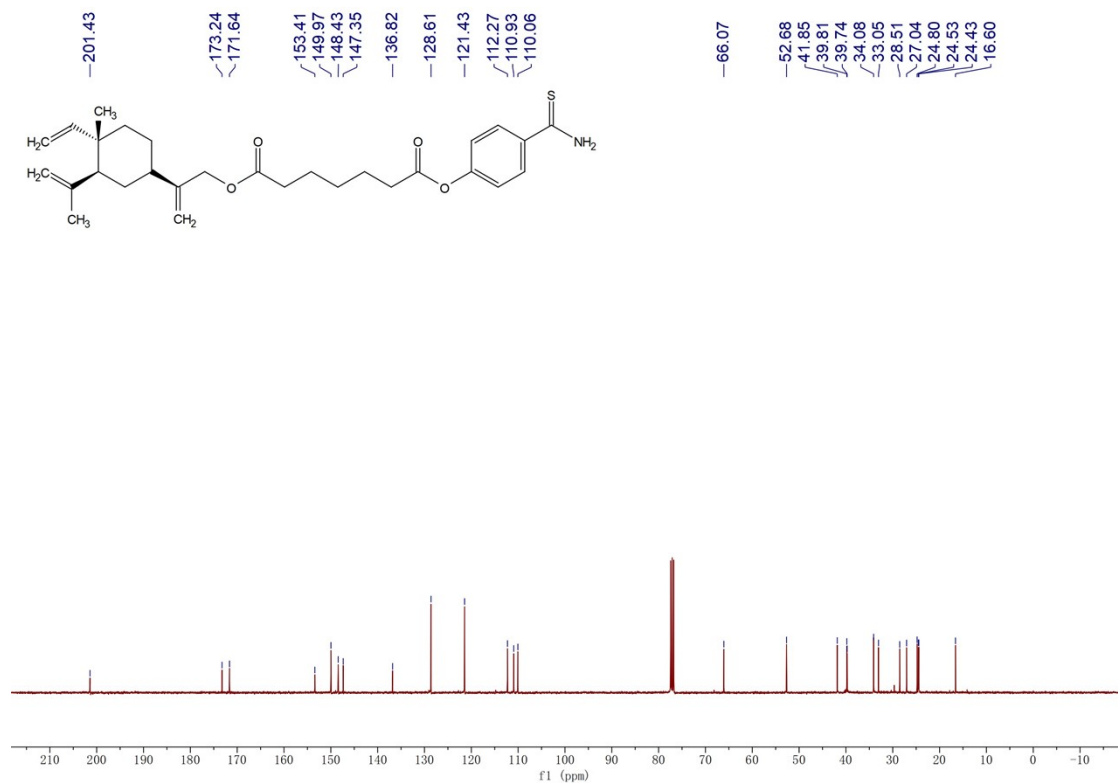
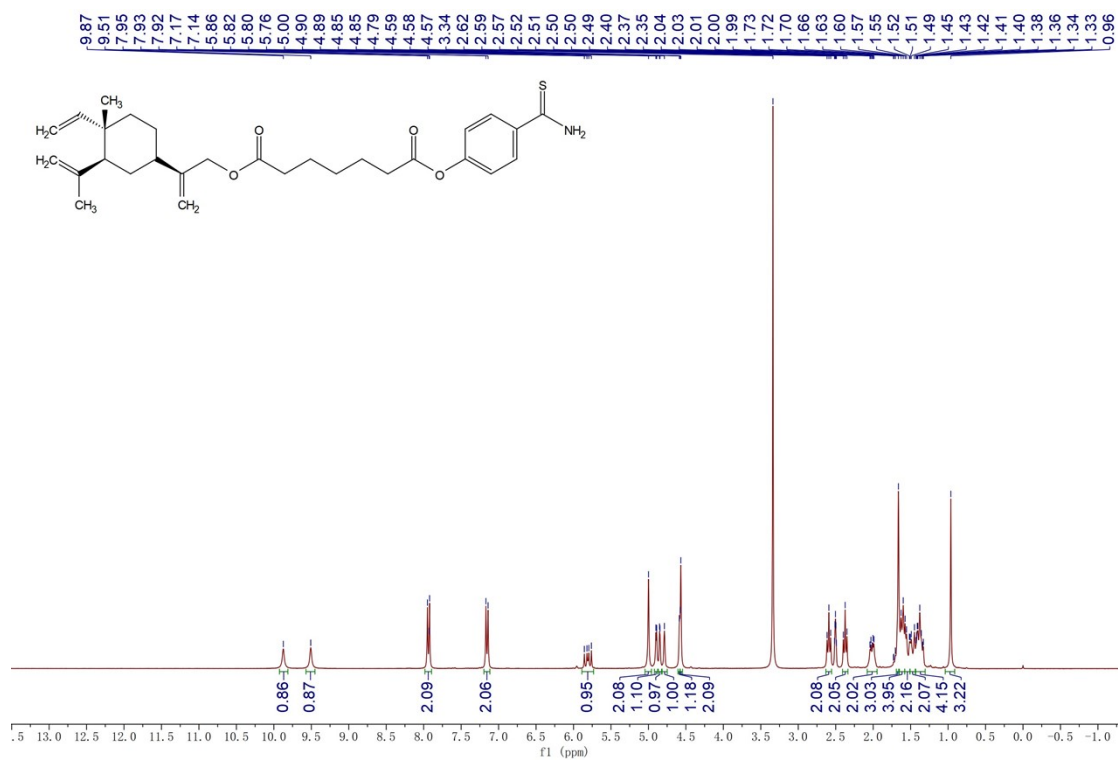
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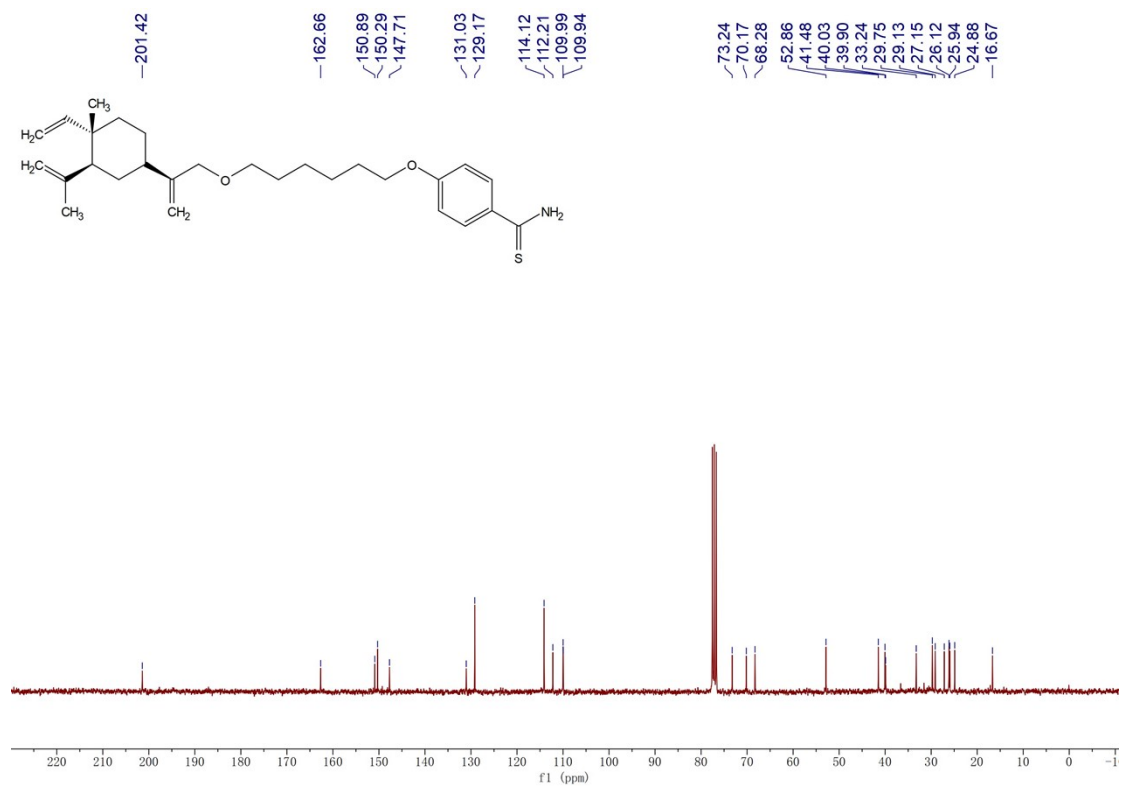
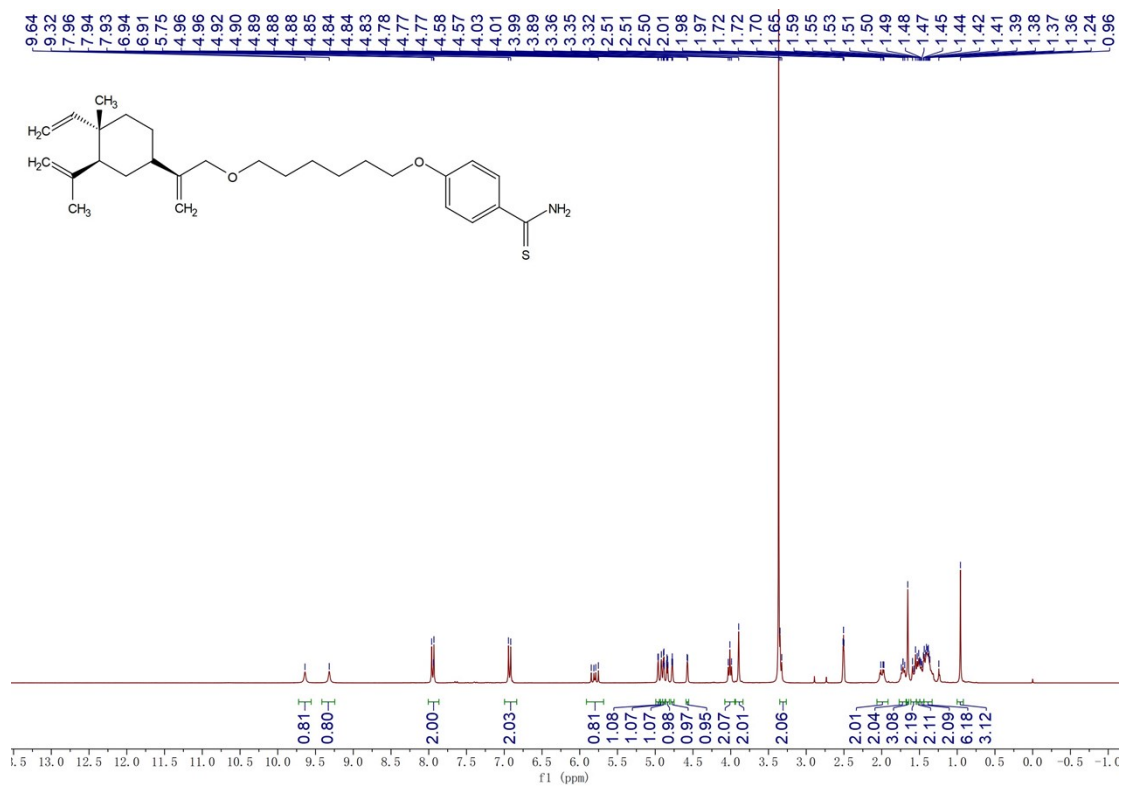
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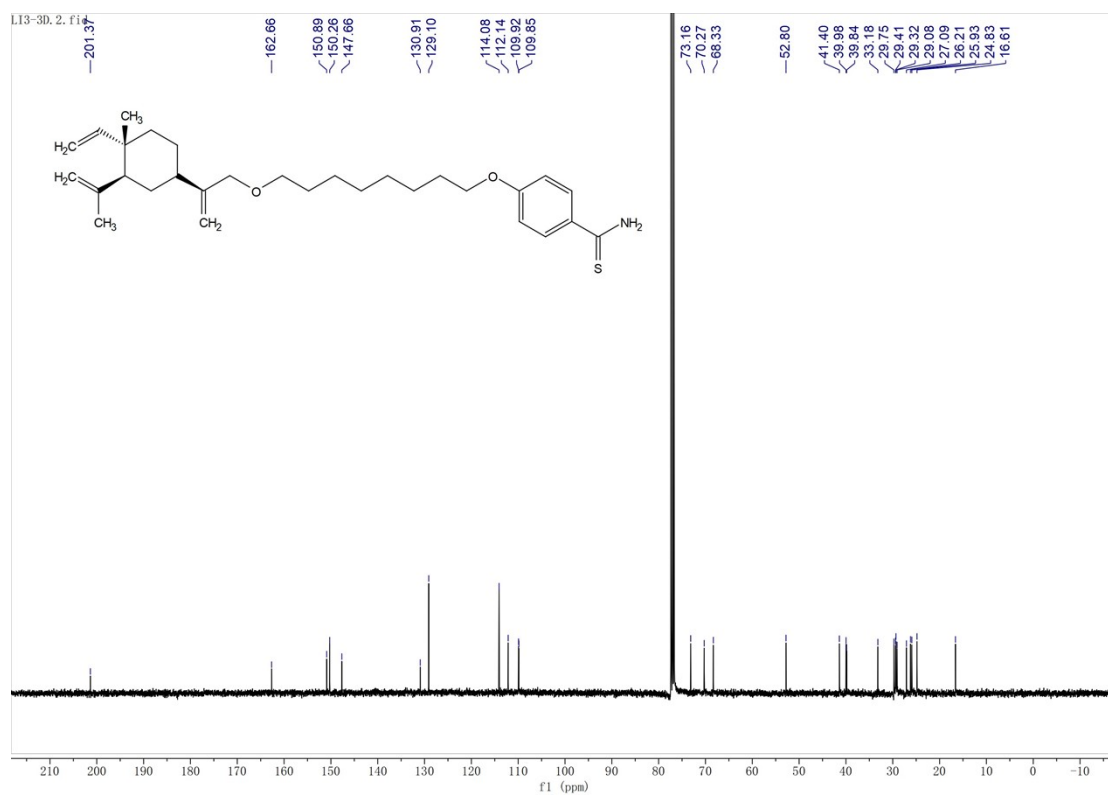
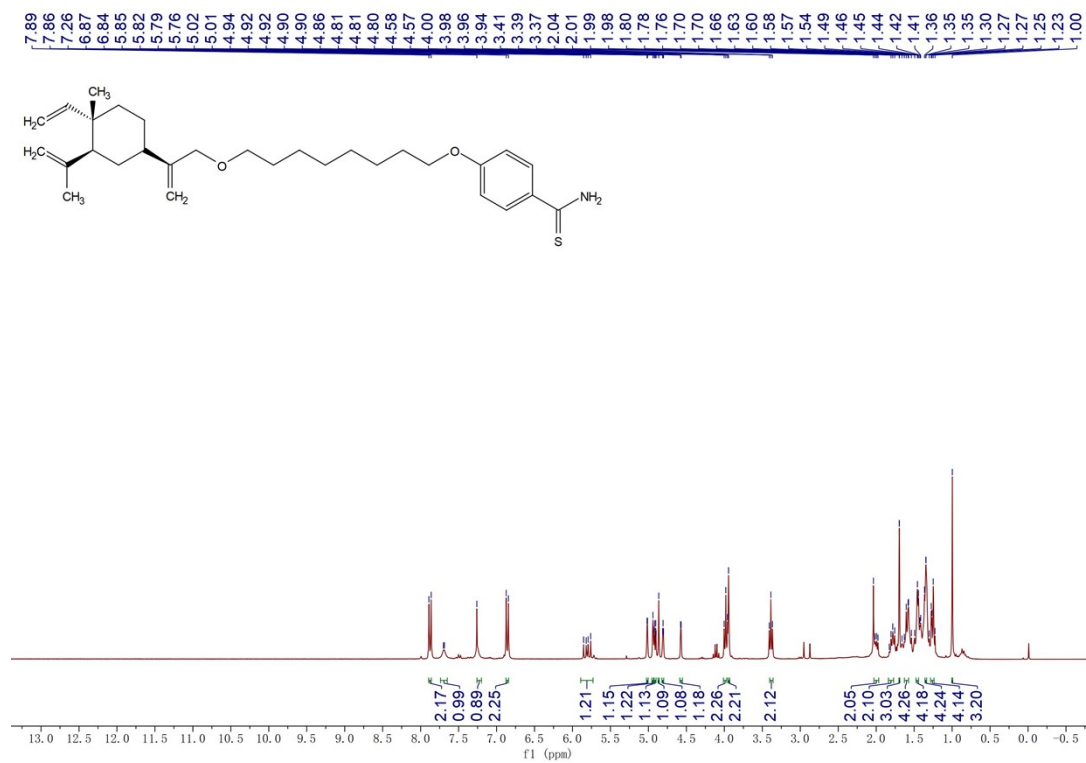
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$^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of compound L13-3c

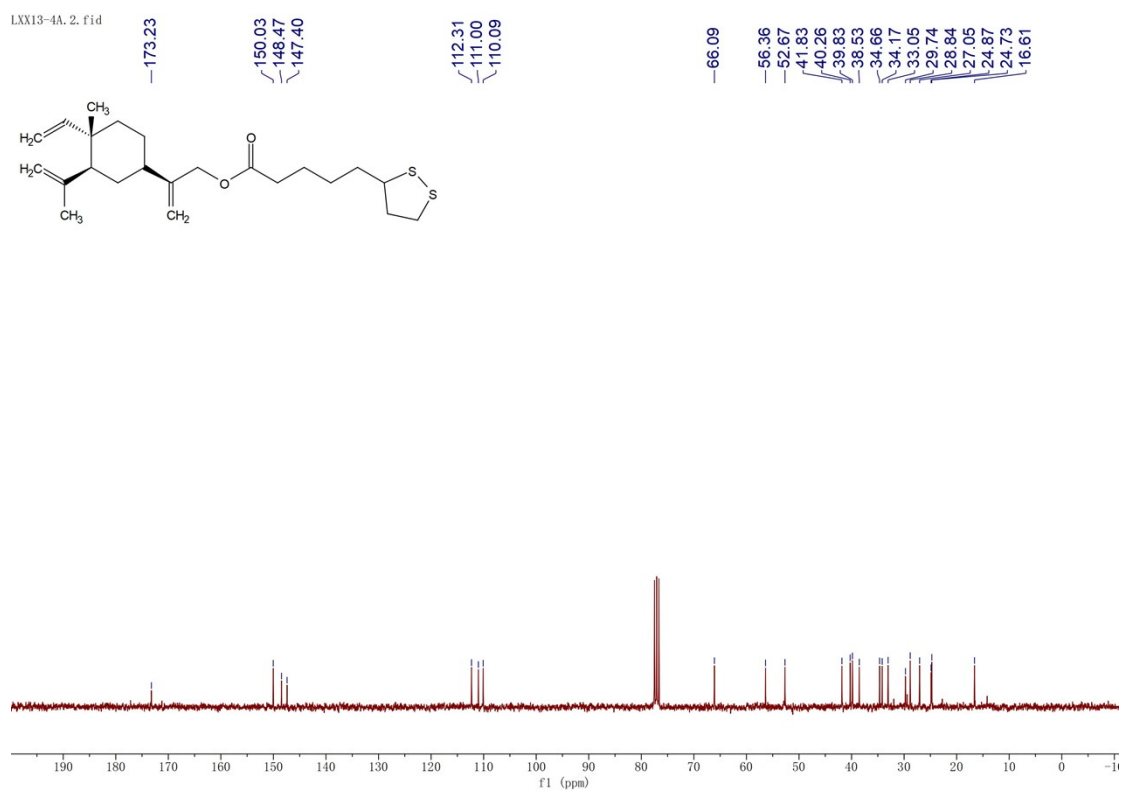
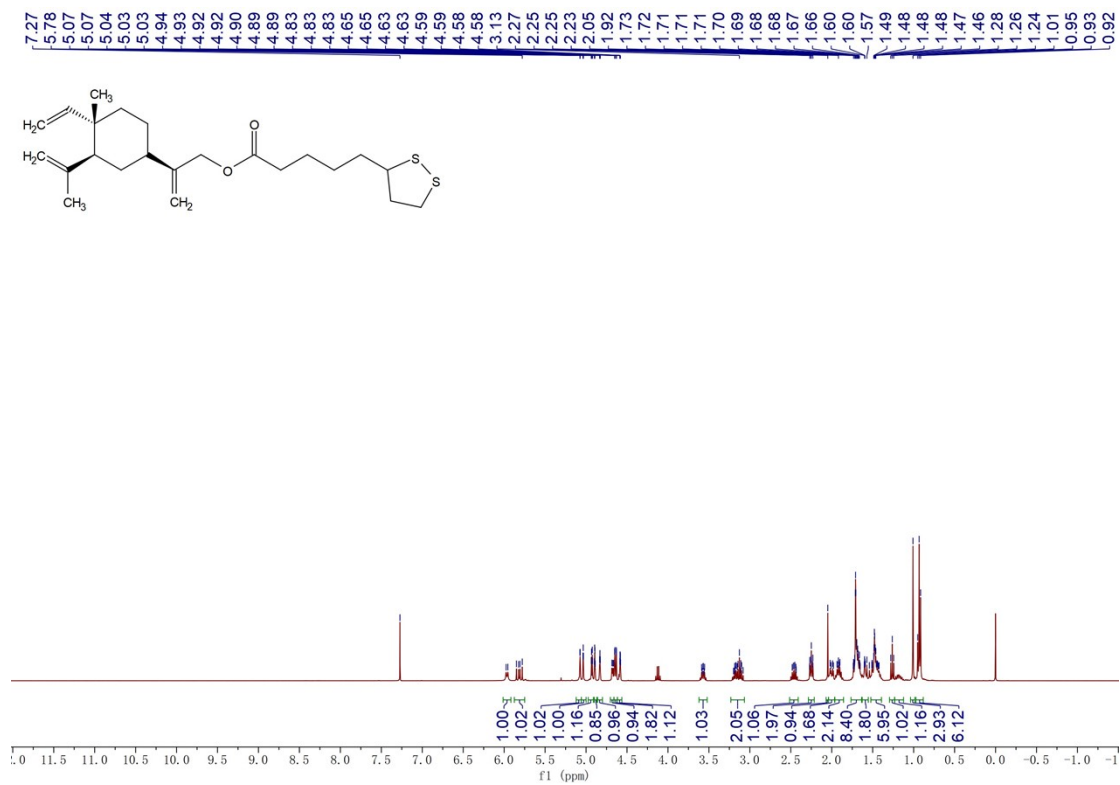


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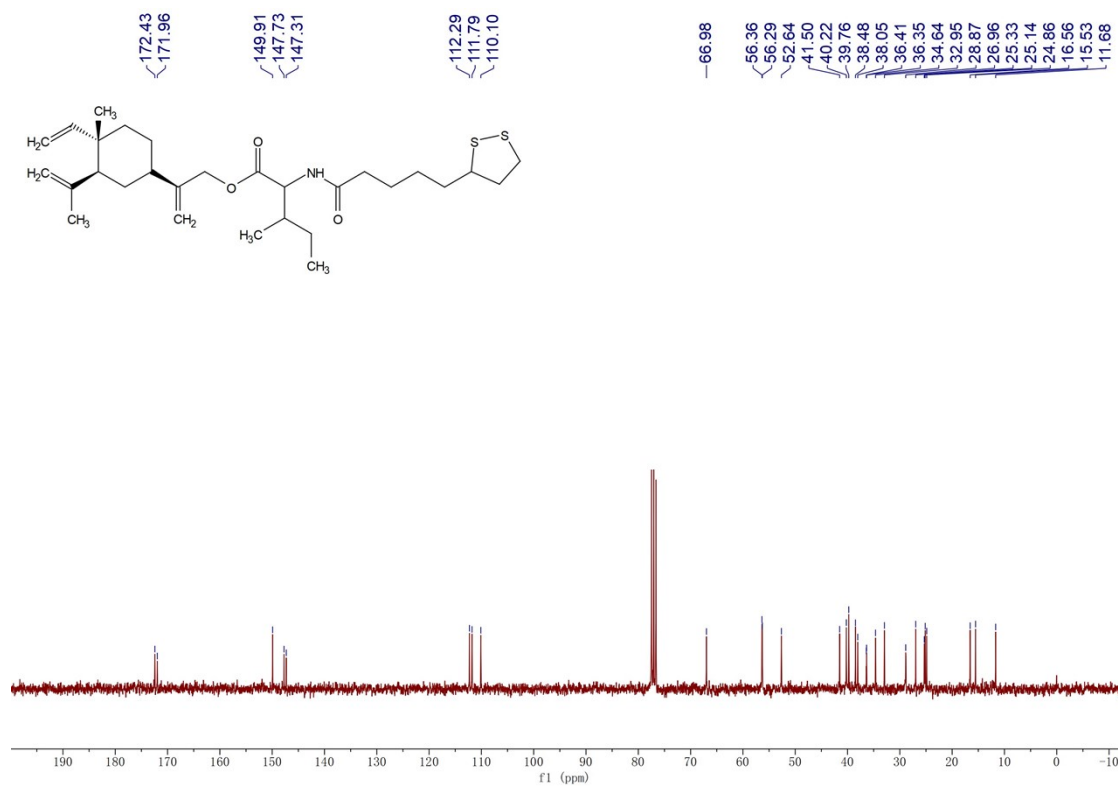
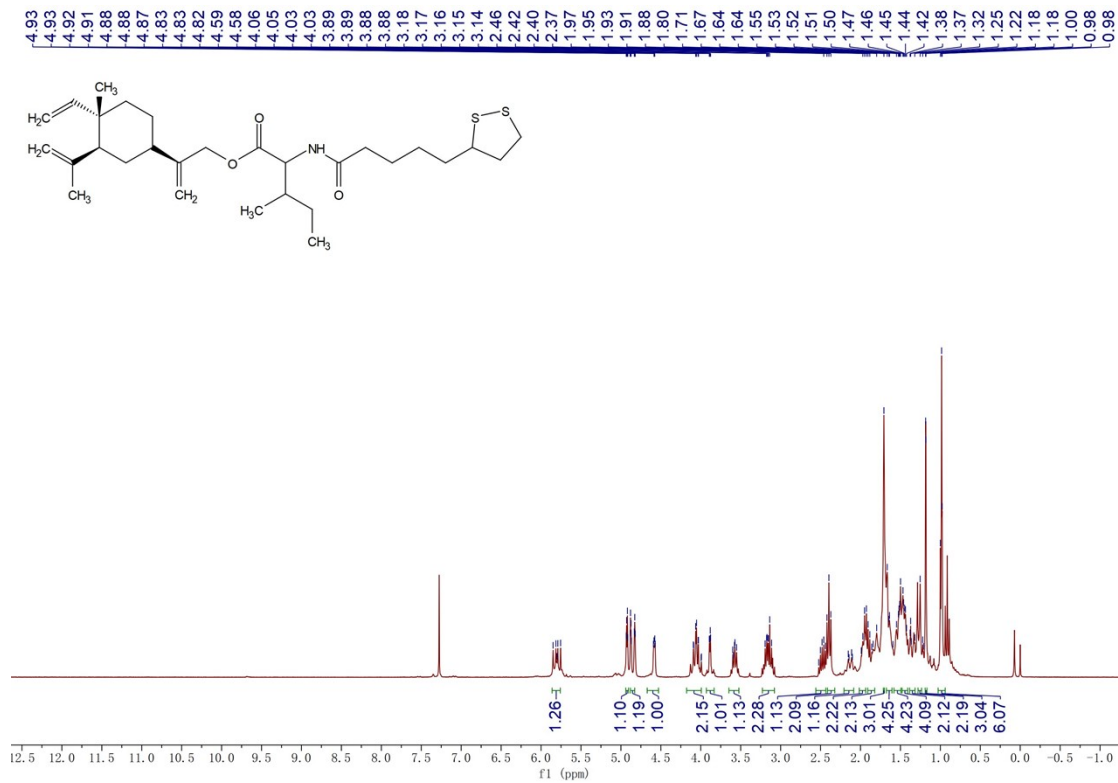




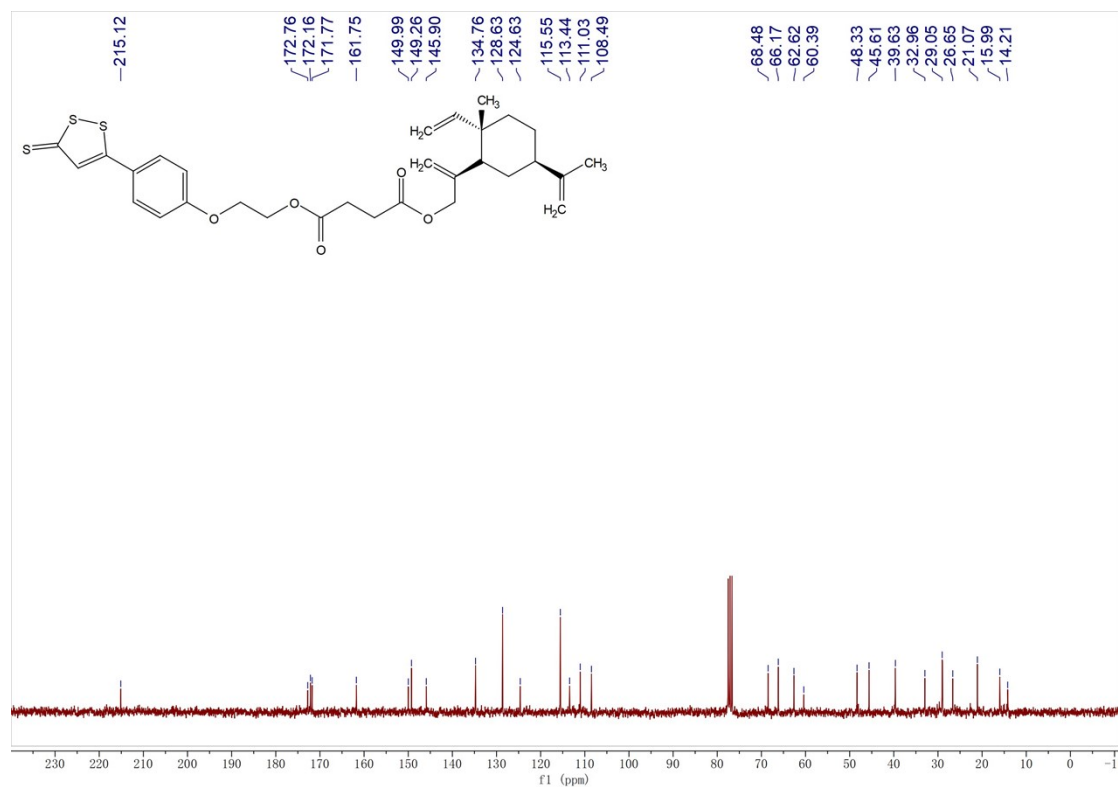
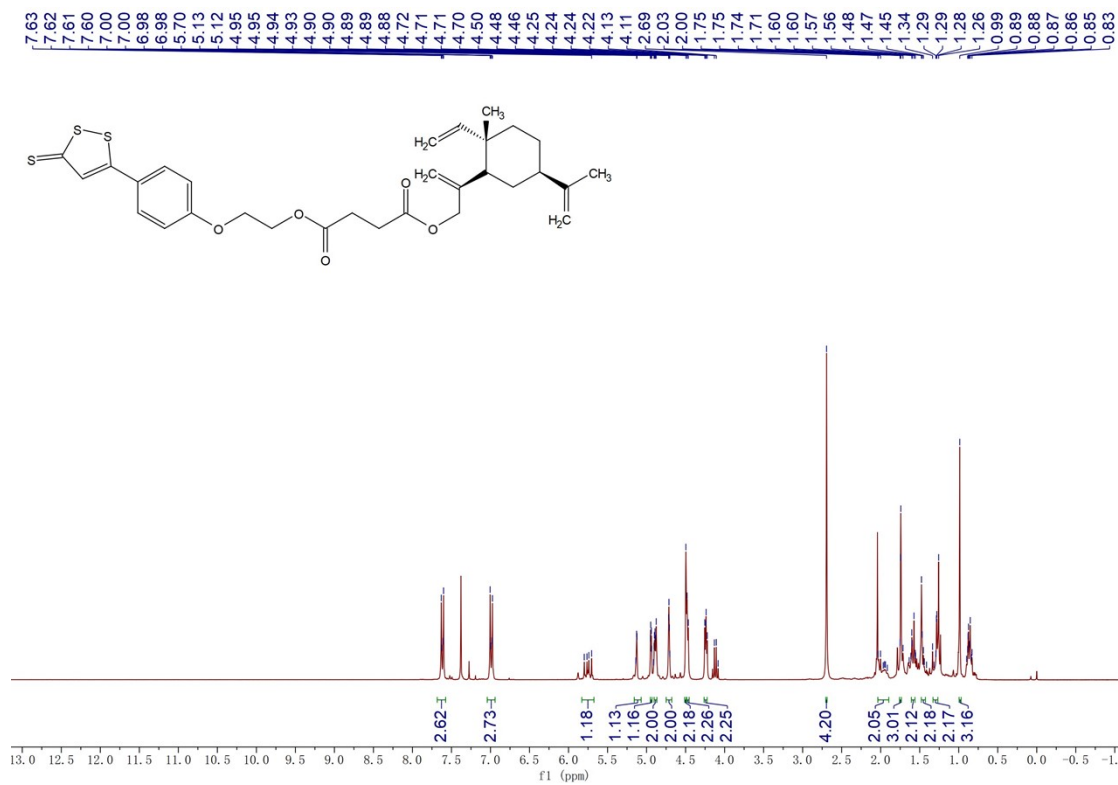
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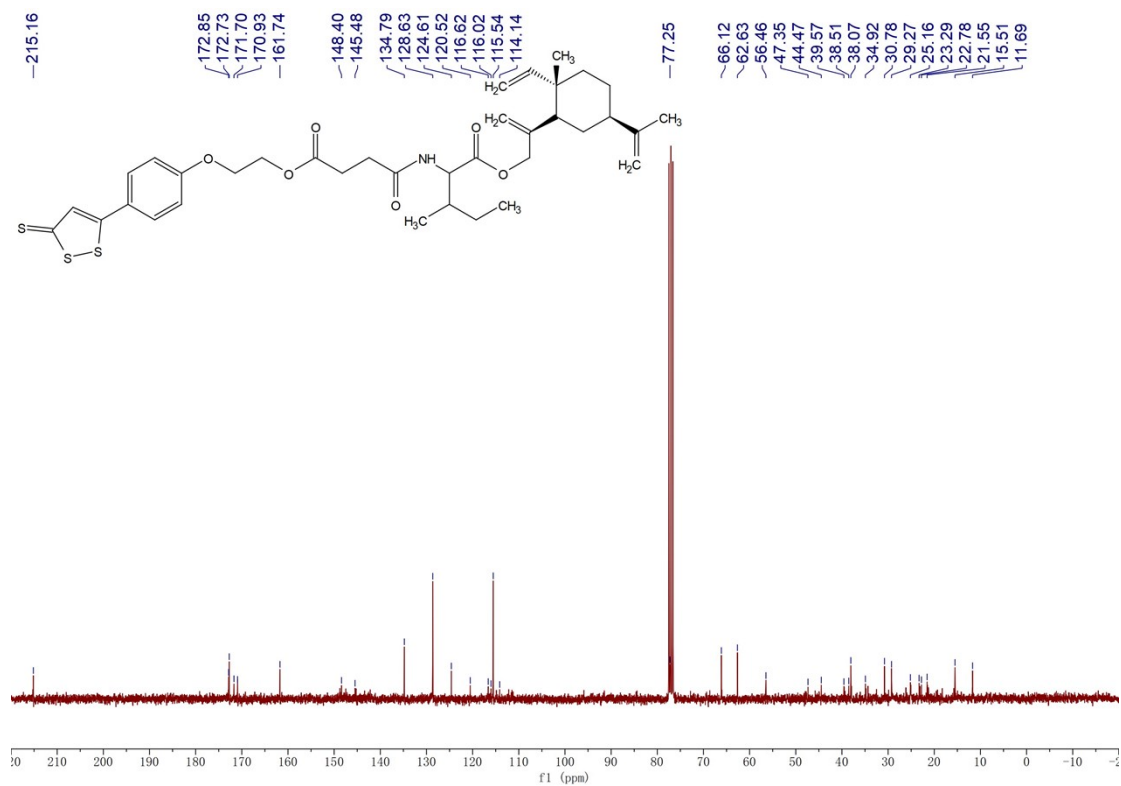
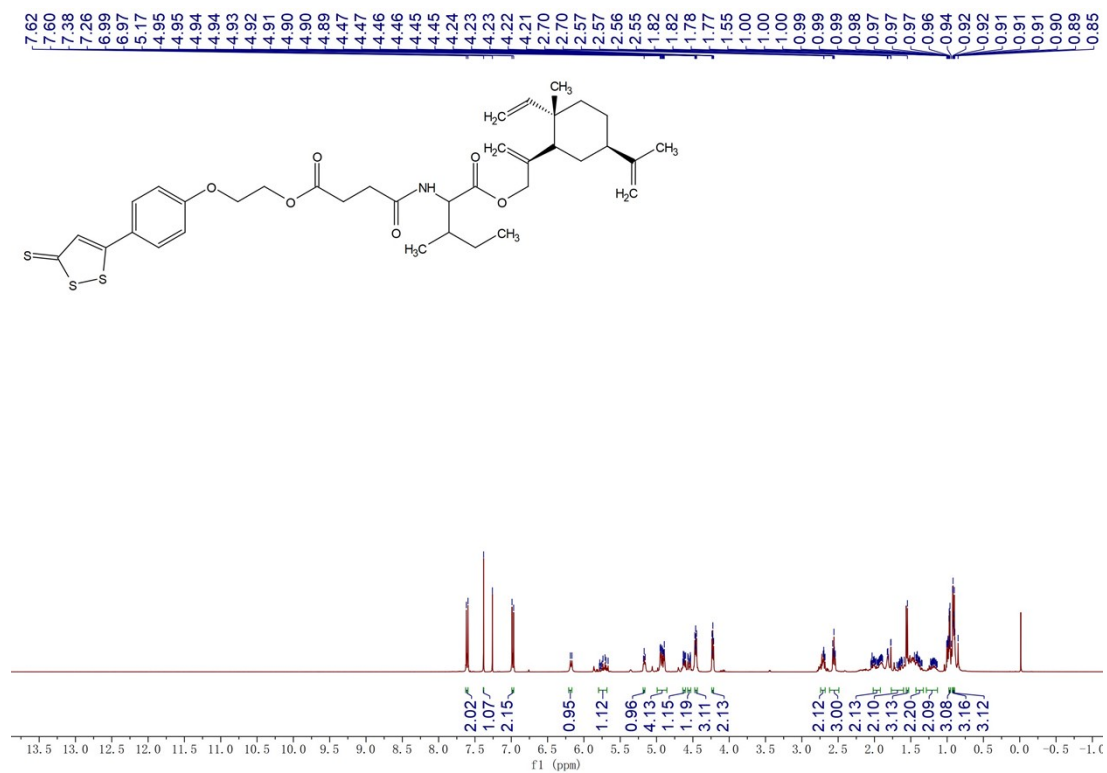
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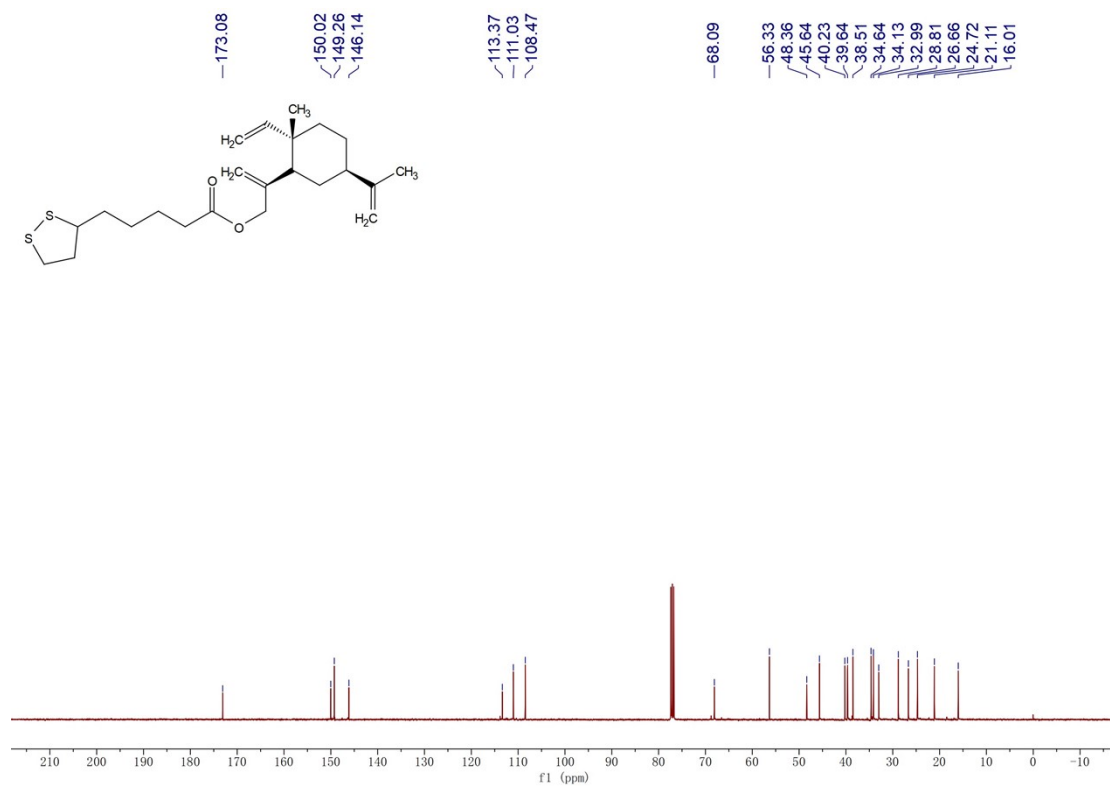
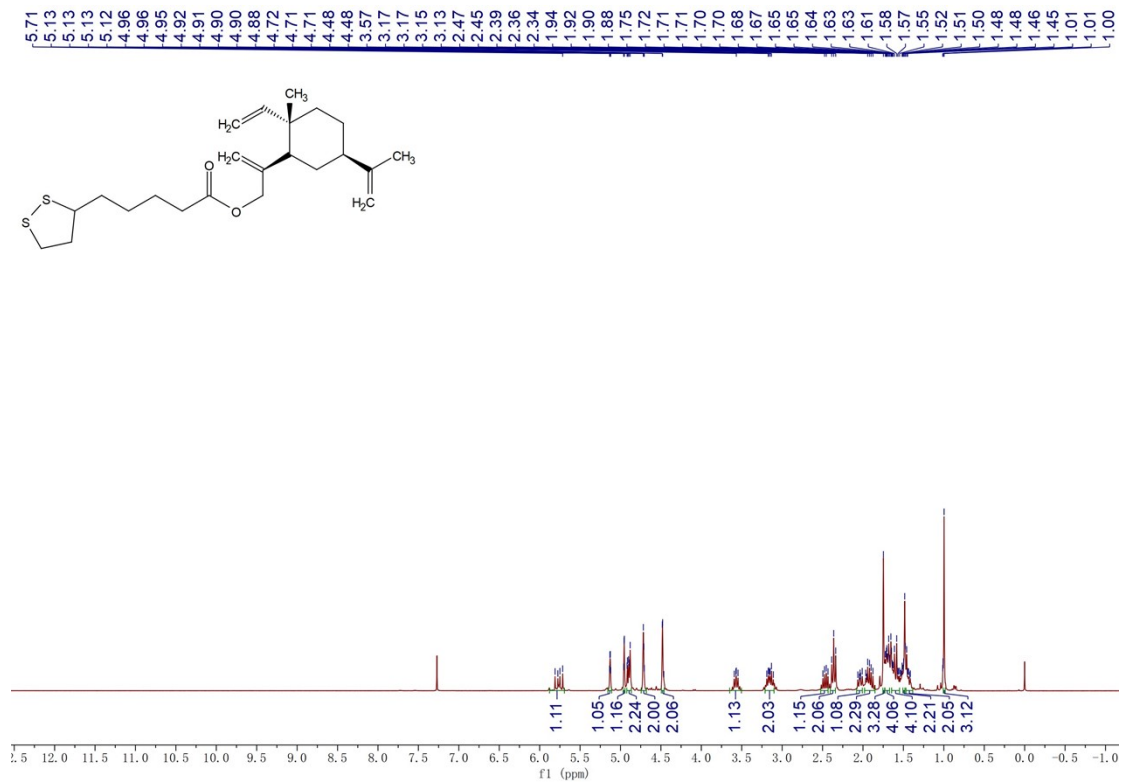
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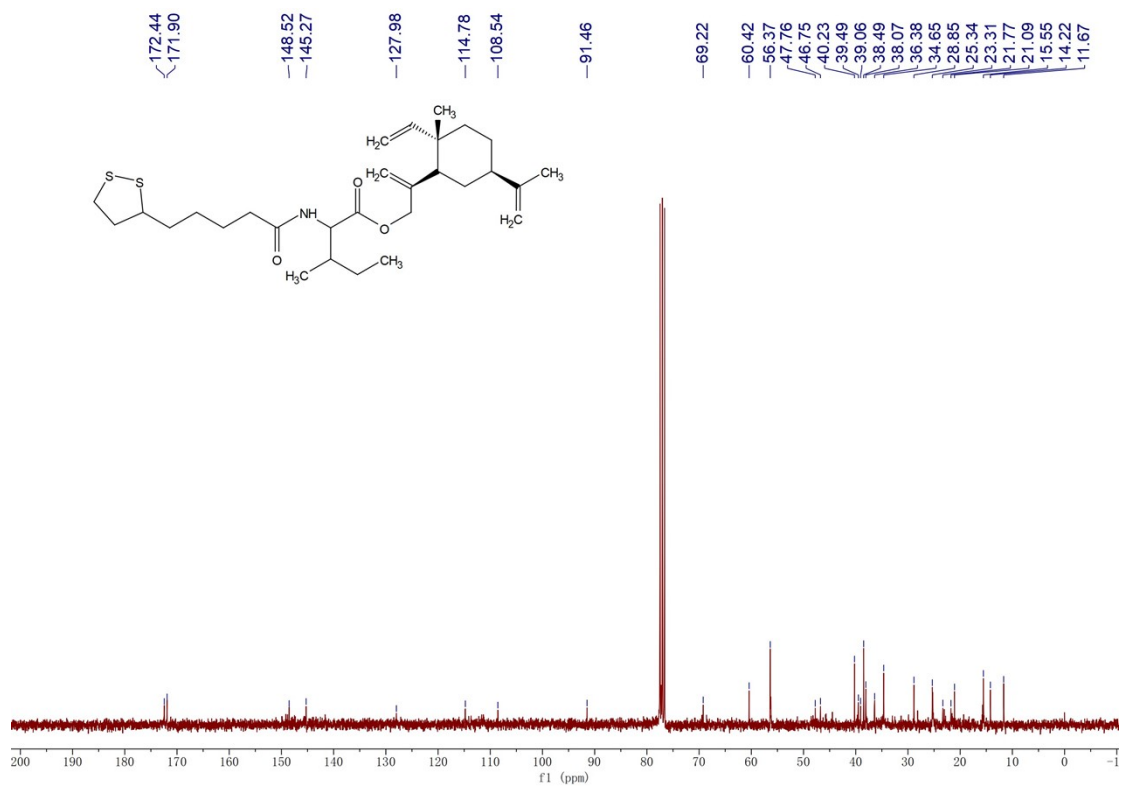
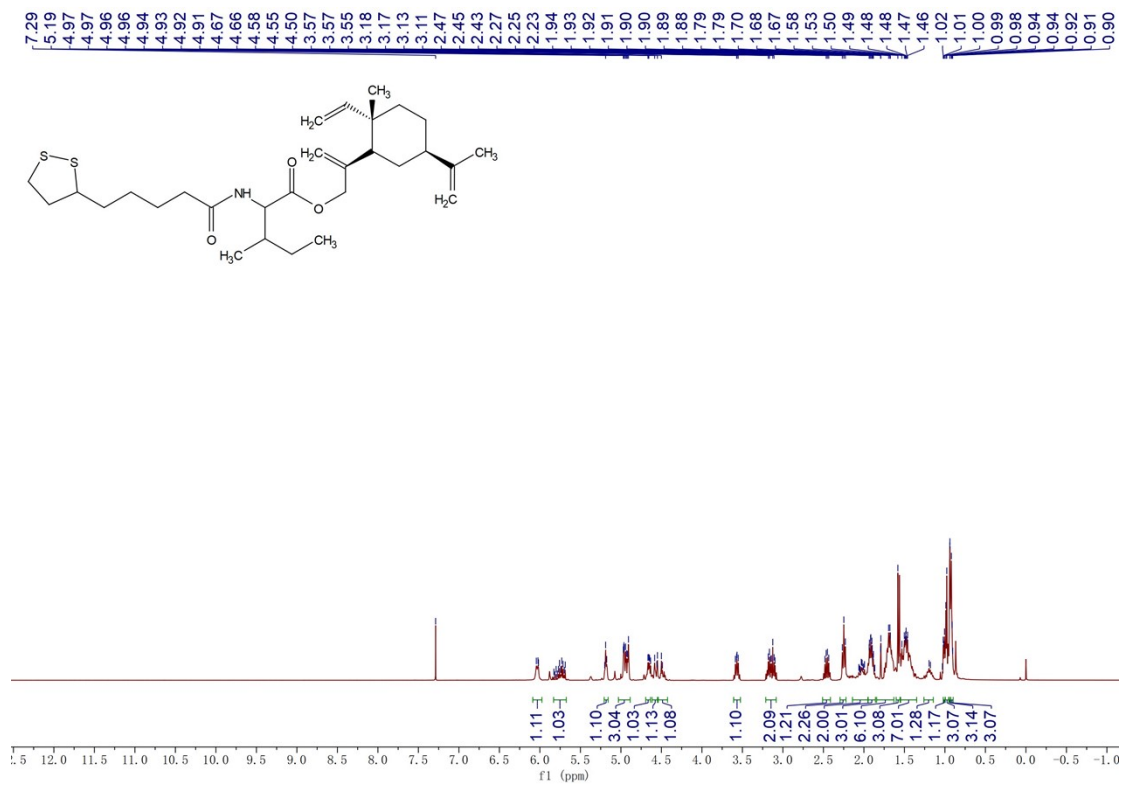
$^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of compound L14-2b



$^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of compound **L14-4a**



$^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of compound L14-4b

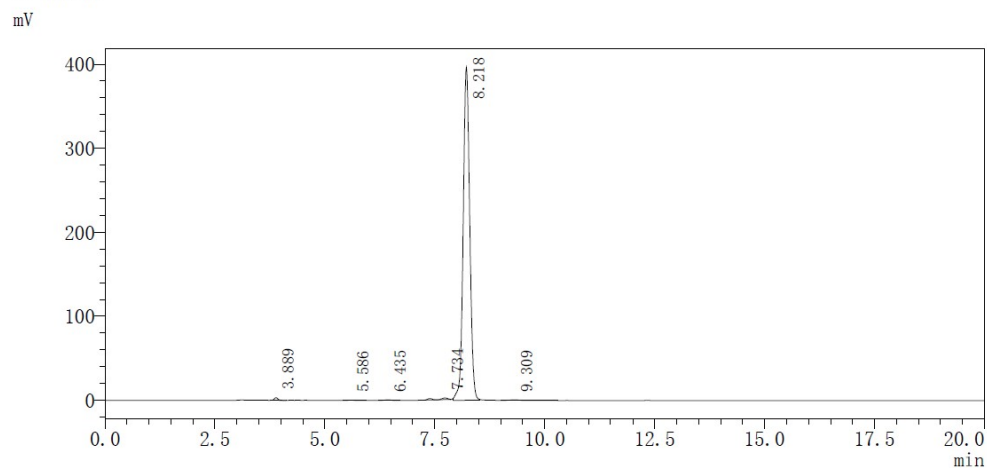


# HPLC purity profile of compound L13-2h



样品名：L13-2h  
方法文件名：95%MeCN+5%H2O

<色谱图>



<峰表>

检测器A 254nm

| 峰号 | 保留时间  | 面积      | 高度     | 浓度     | 面积%     | 面积/高度  |
|----|-------|---------|--------|--------|---------|--------|
| 1  | 3.889 | 17676   | 3134   | 0.425  | 0.425   | 5.639  |
| 2  | 5.586 | 2394    | 249    | 0.058  | 0.058   | 9.609  |
| 3  | 6.435 | 6779    | 639    | 0.163  | 0.163   | 10.605 |
| 4  | 7.734 | 26364   | 1879   | 0.634  | 0.634   | 14.029 |
| 5  | 8.218 | 4090897 | 395994 | 98.390 | 98.390  | 10.331 |
| 6  | 9.309 | 13726   | 699    | 0.330  | 0.330   | 19.647 |
| 总计 |       | 4157836 | 402595 |        | 100.000 |        |