

Copies of NMR Spectra  
For

**Hydroxyalkylation of Conjugated Nitroalkenes with Activated Non-enolizable Carbonyl Compounds**

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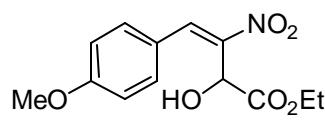
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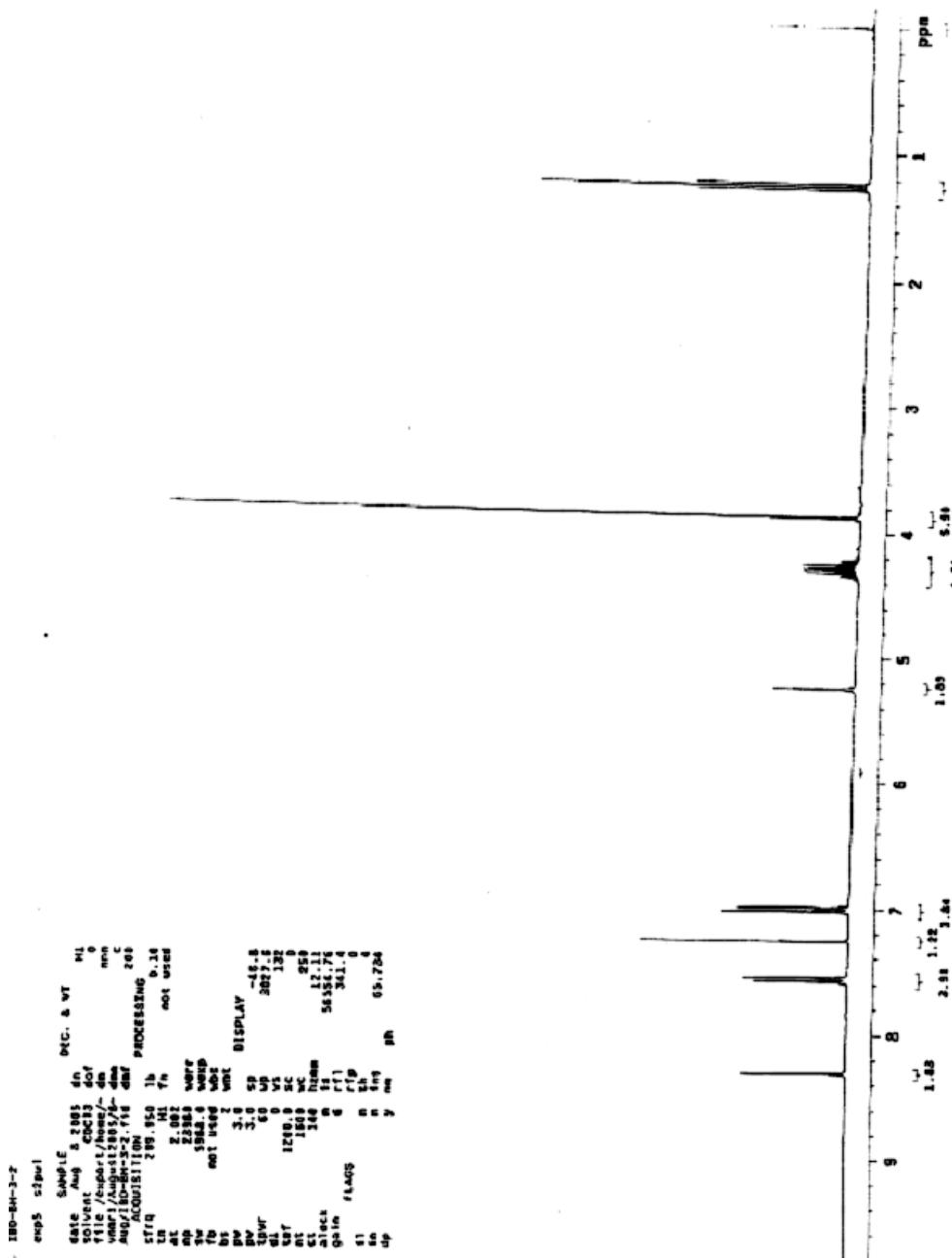
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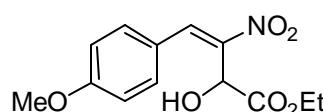
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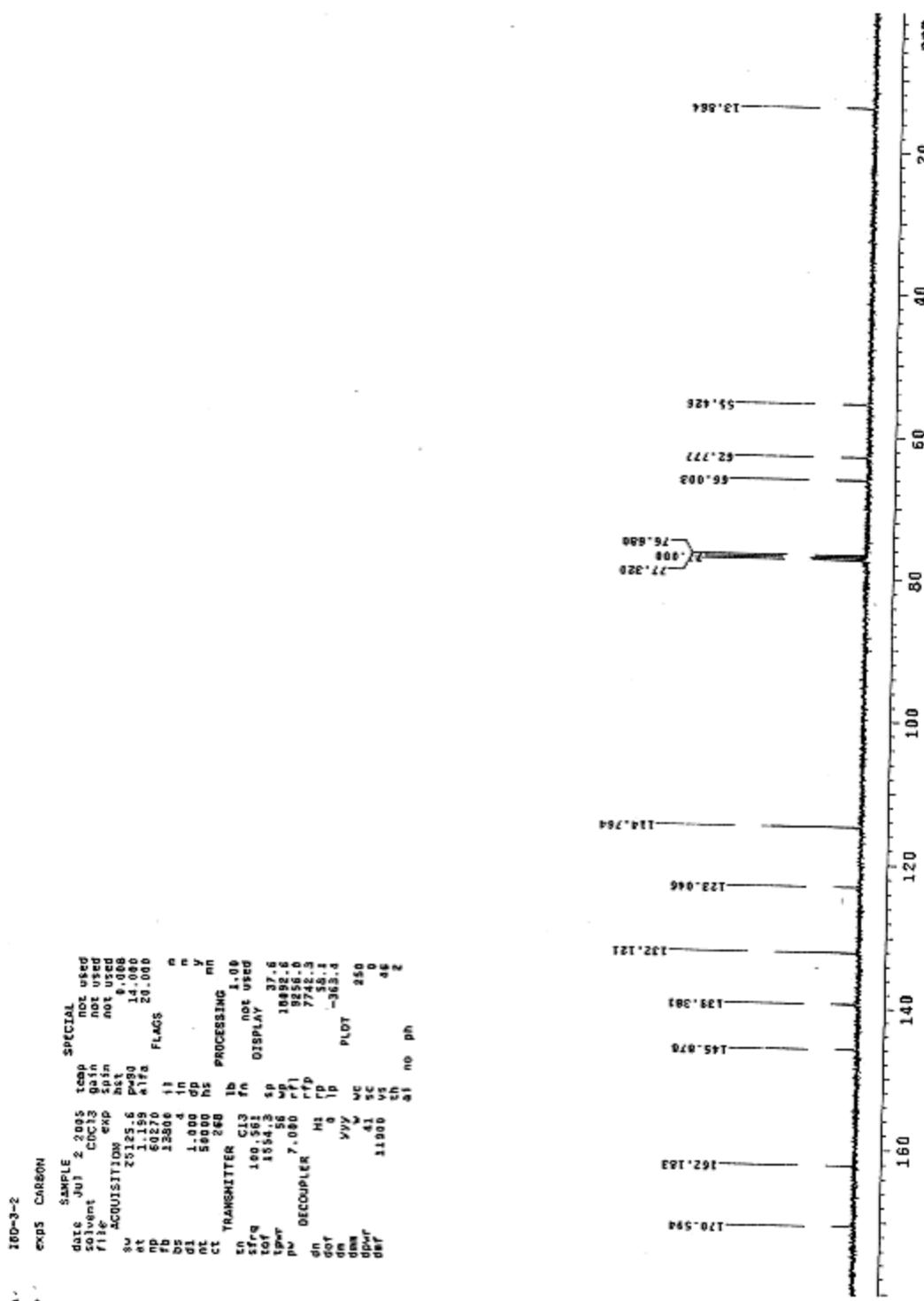
3a



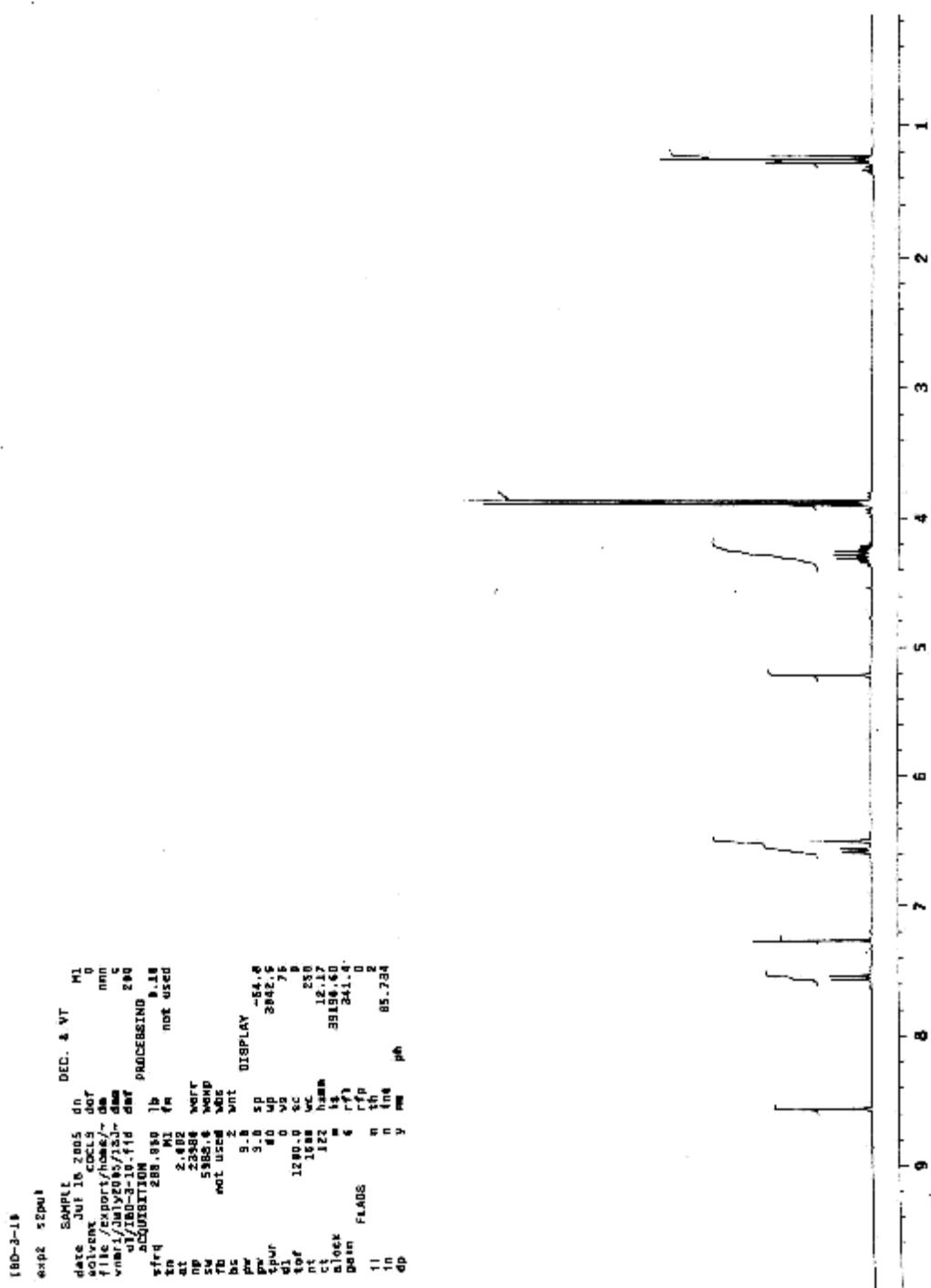
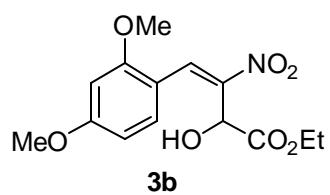
**Figure S1.**  $^1\text{H}$  NMR Spectrum of **3a**

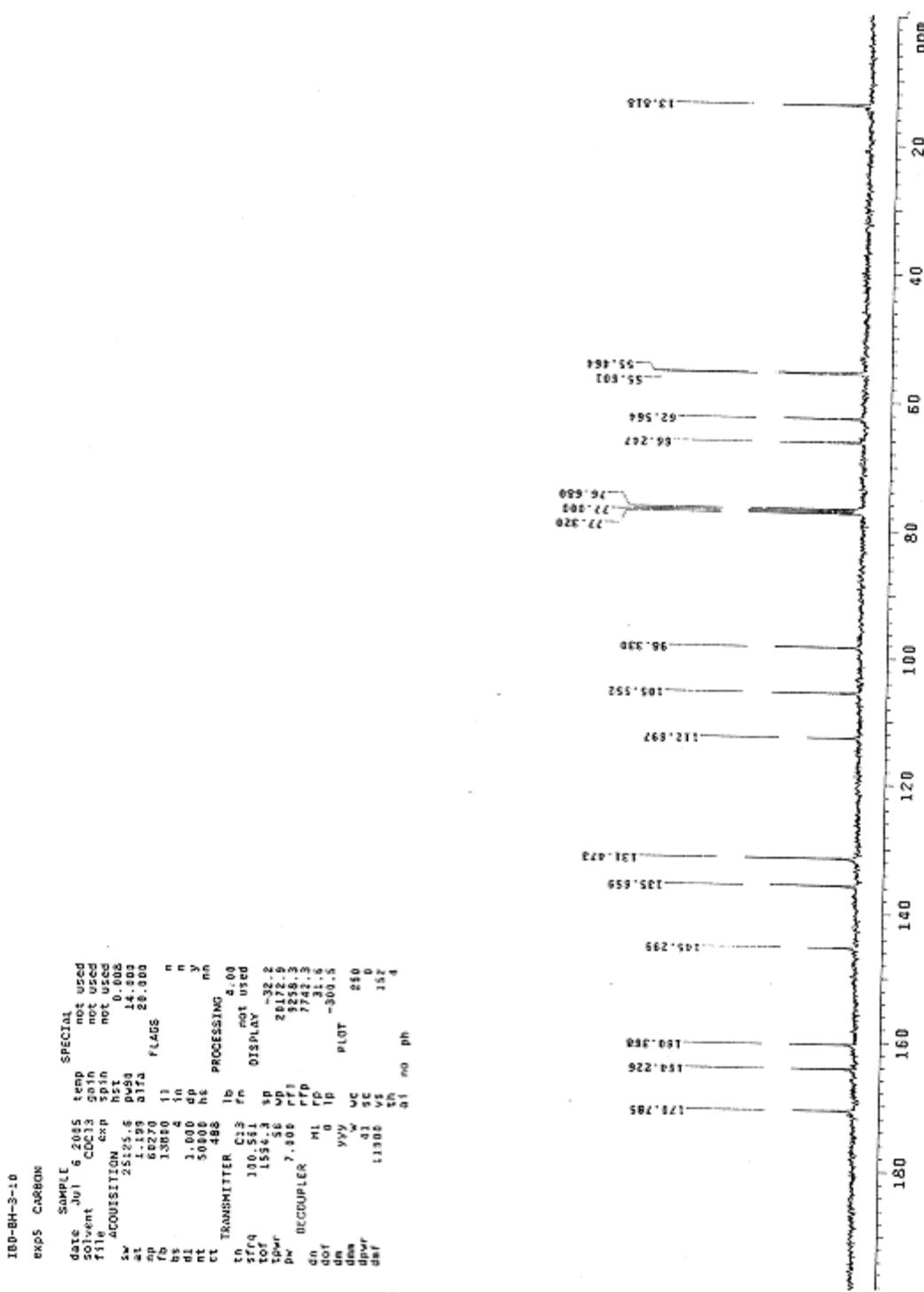
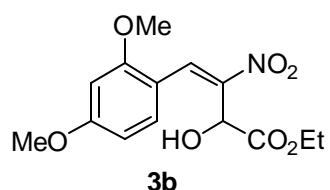


**3a**

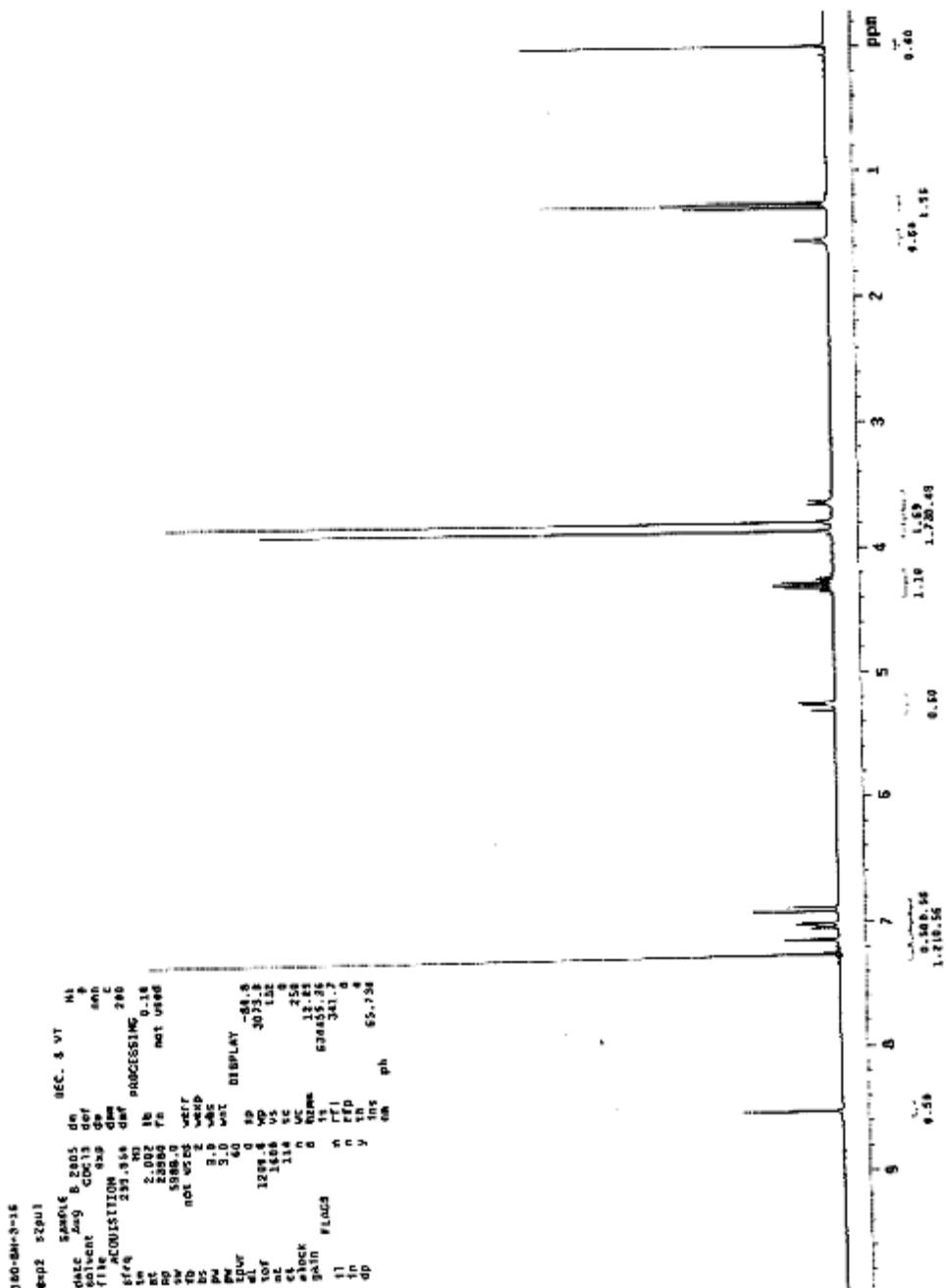
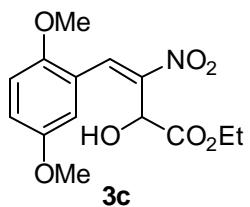


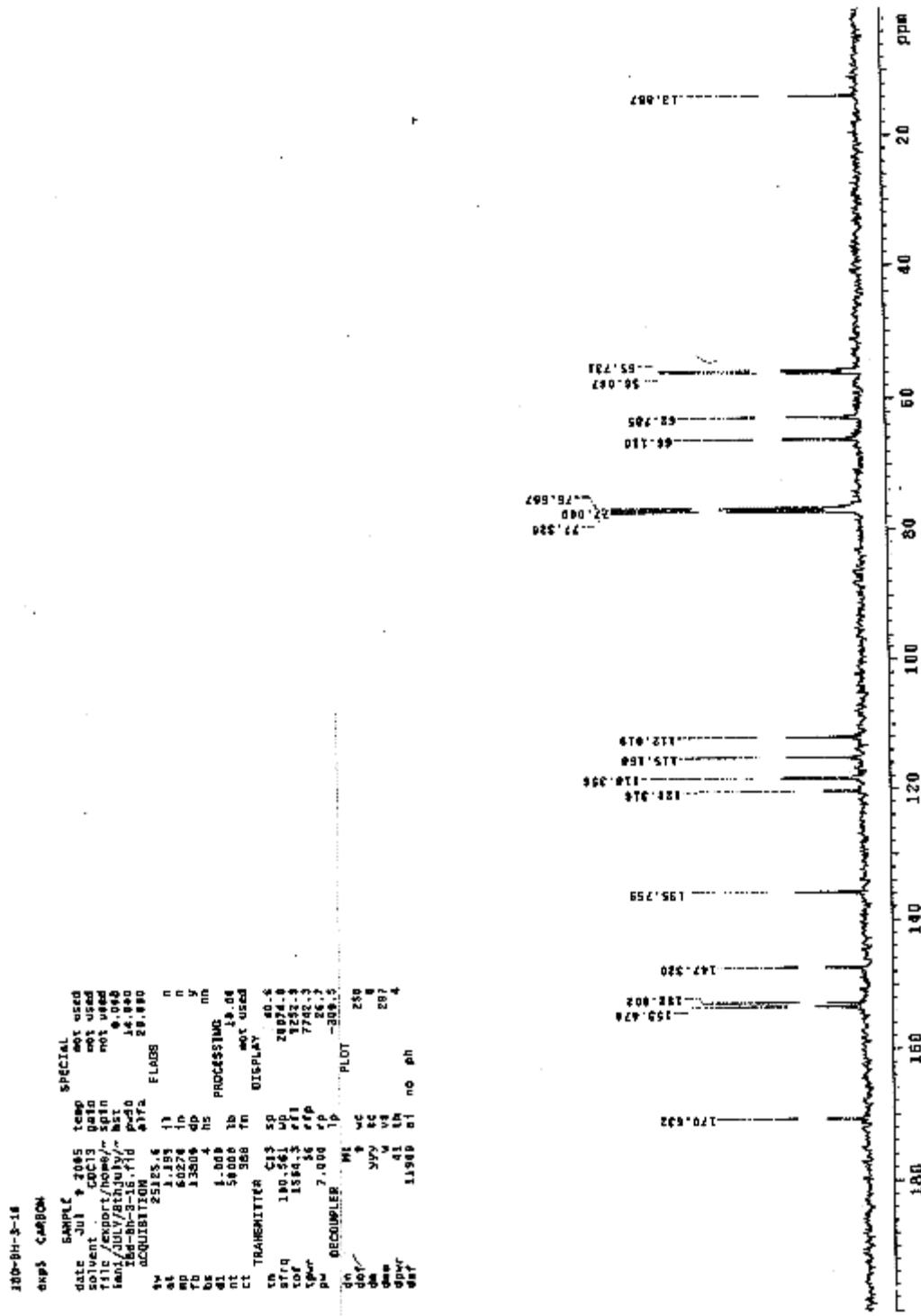
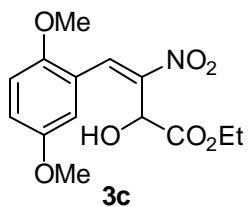
**Figure S2.**  $^{13}\text{C}$  NMR Spectrum of **3a**





**Figure S4.** <sup>13</sup>C NMR Spectrum of **3b**





**Figure S6.**  $^{13}\text{C}$  NMR Spectrum of **3c**

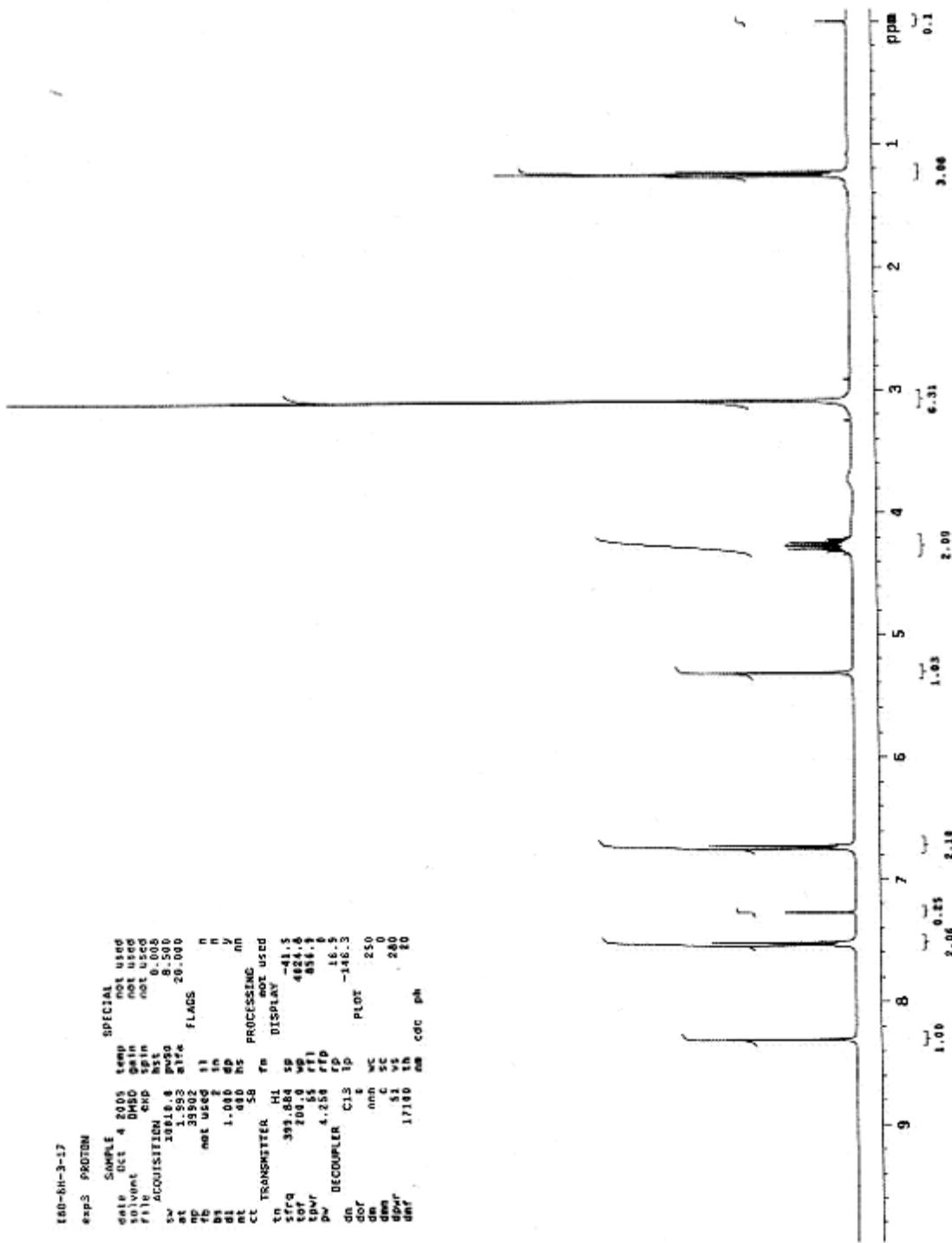
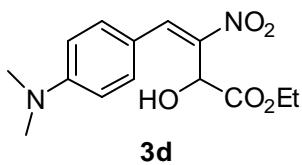
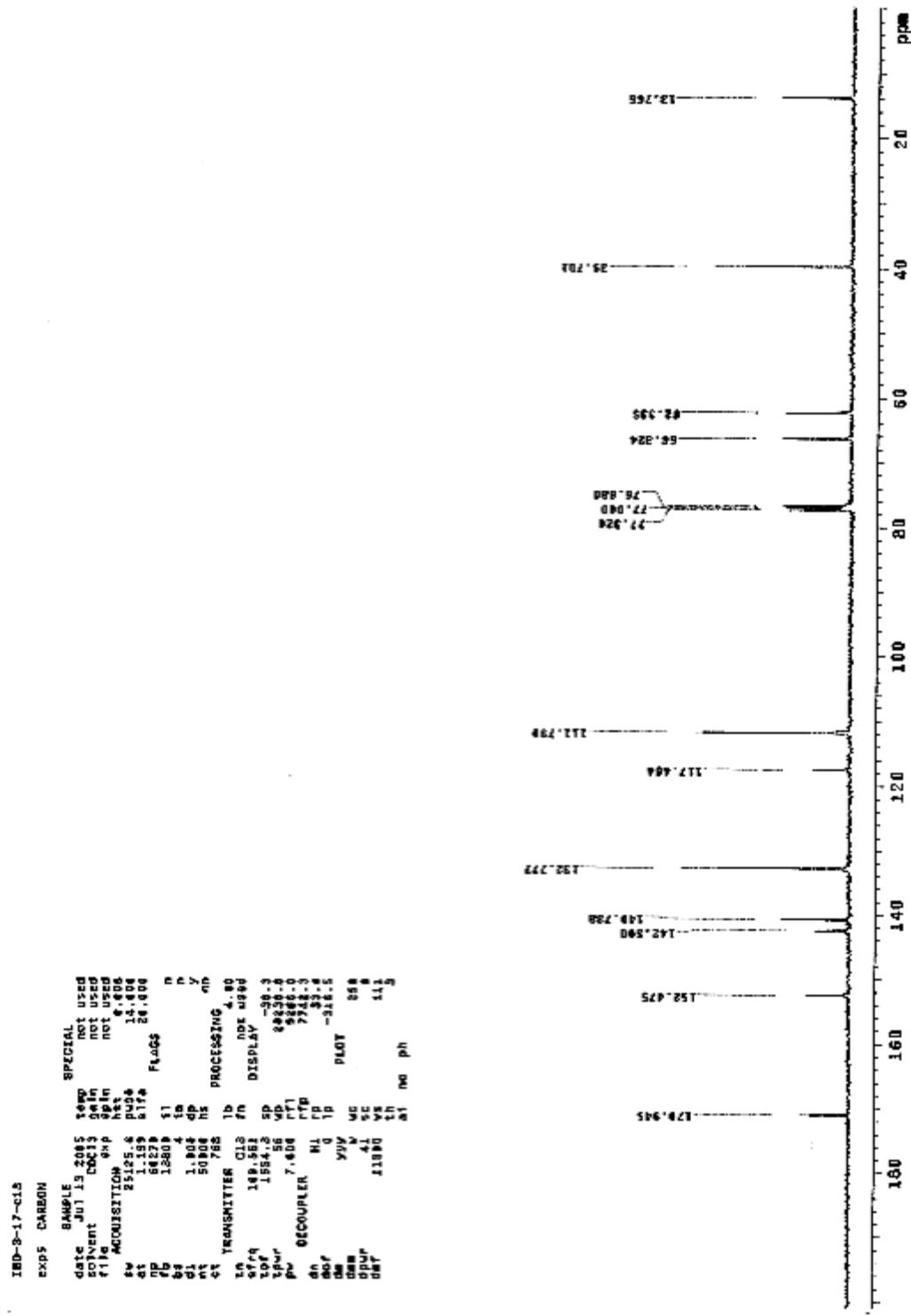
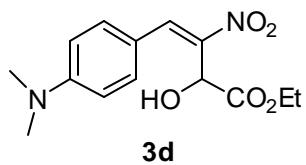
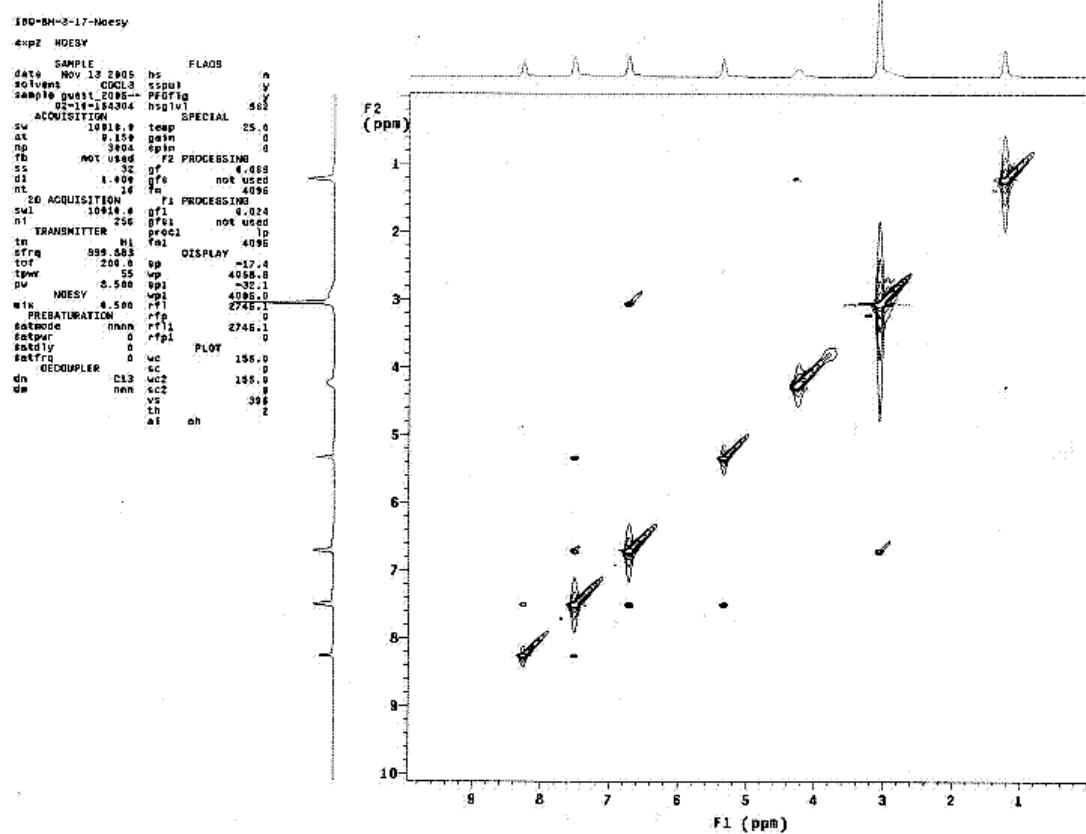
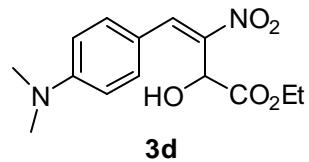


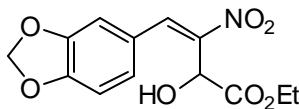
Figure S6.  $^1\text{H}$  NMR Spectrum of **3d**



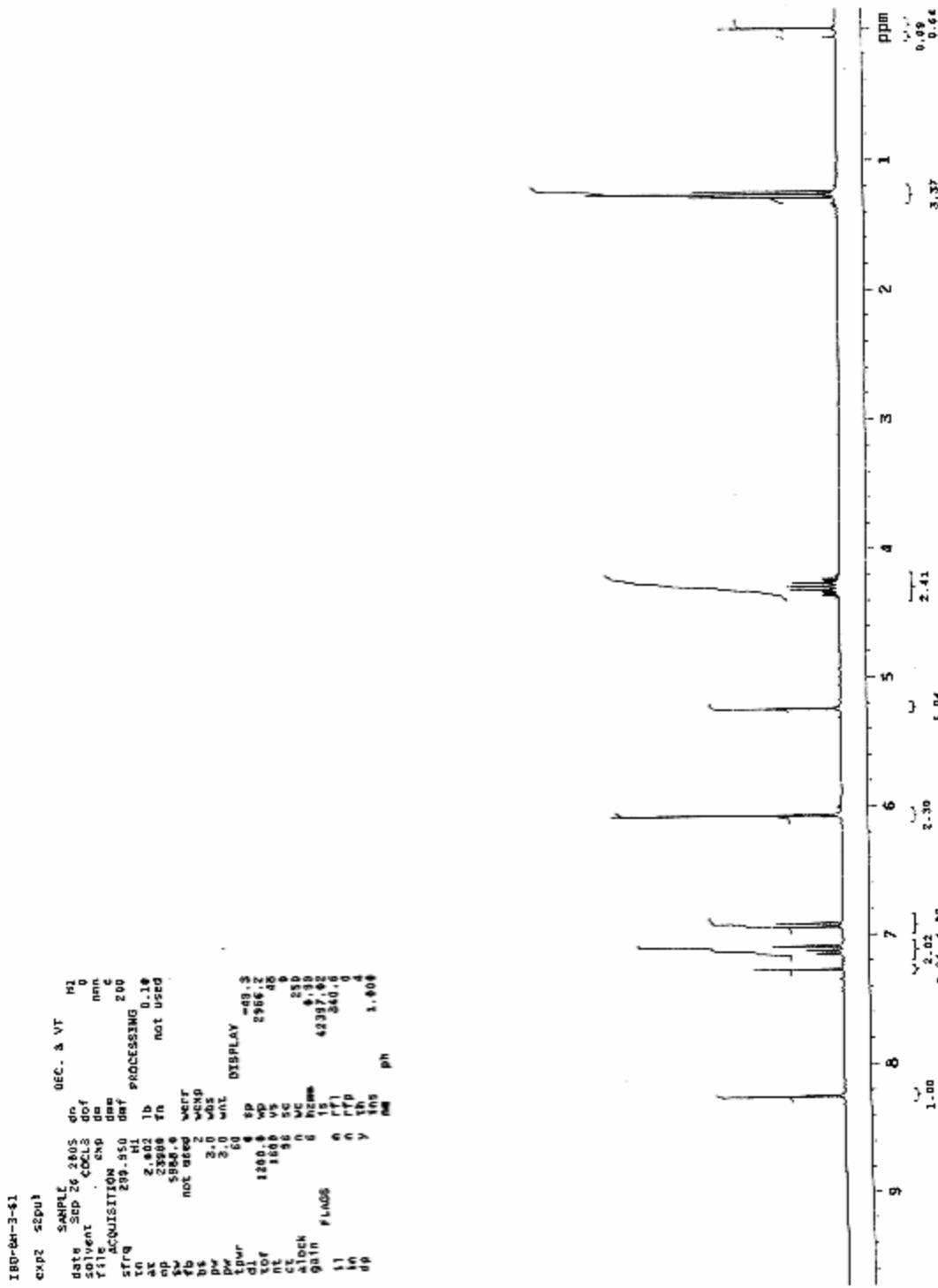
**Figure S8.**  $^{13}\text{C}$  NMR Spectrum of **3c**

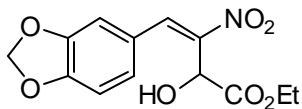


**Figure S9.**  $^1\text{H}$ - $^1\text{H}$  NOESY Spectrum of **3d**

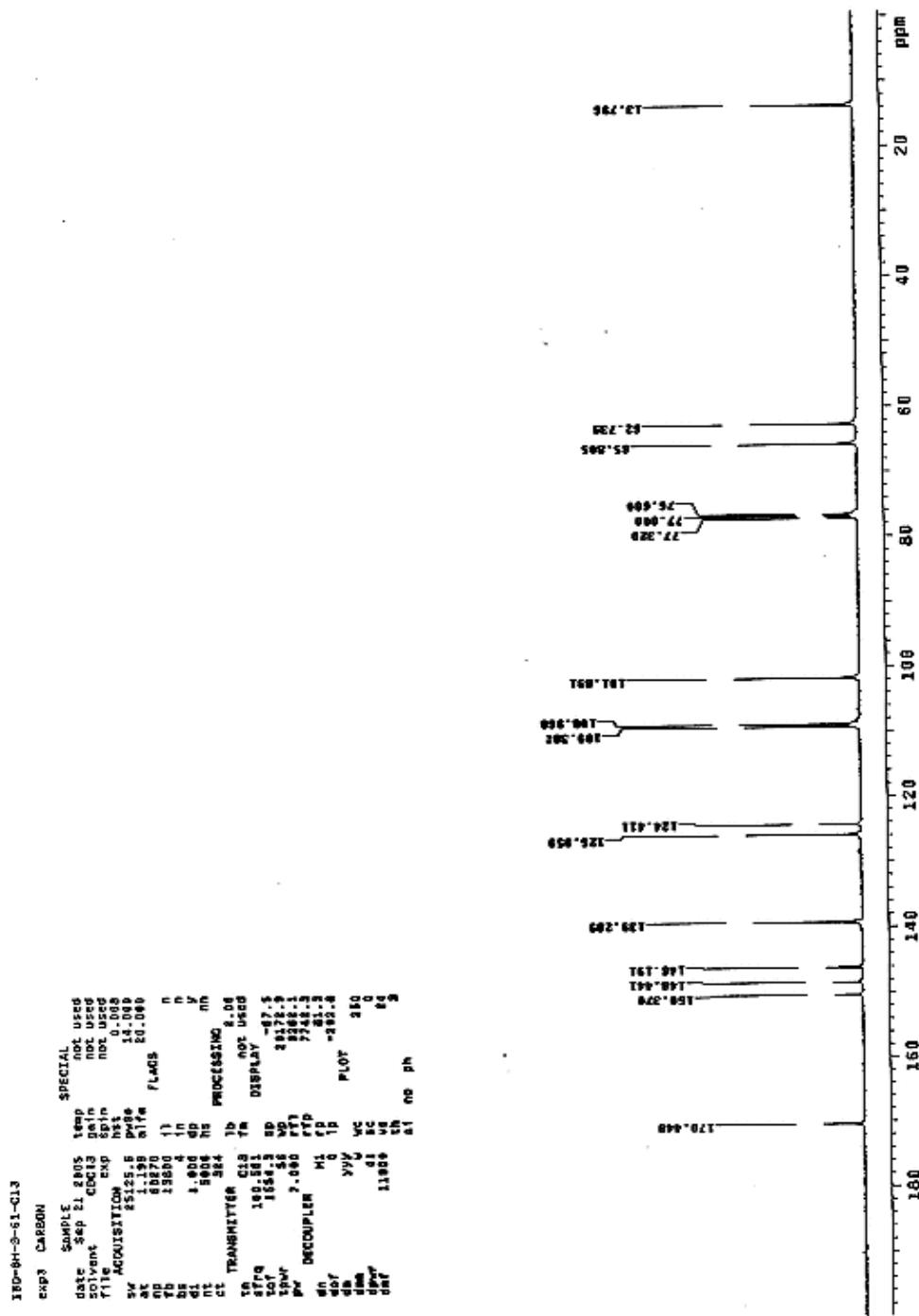


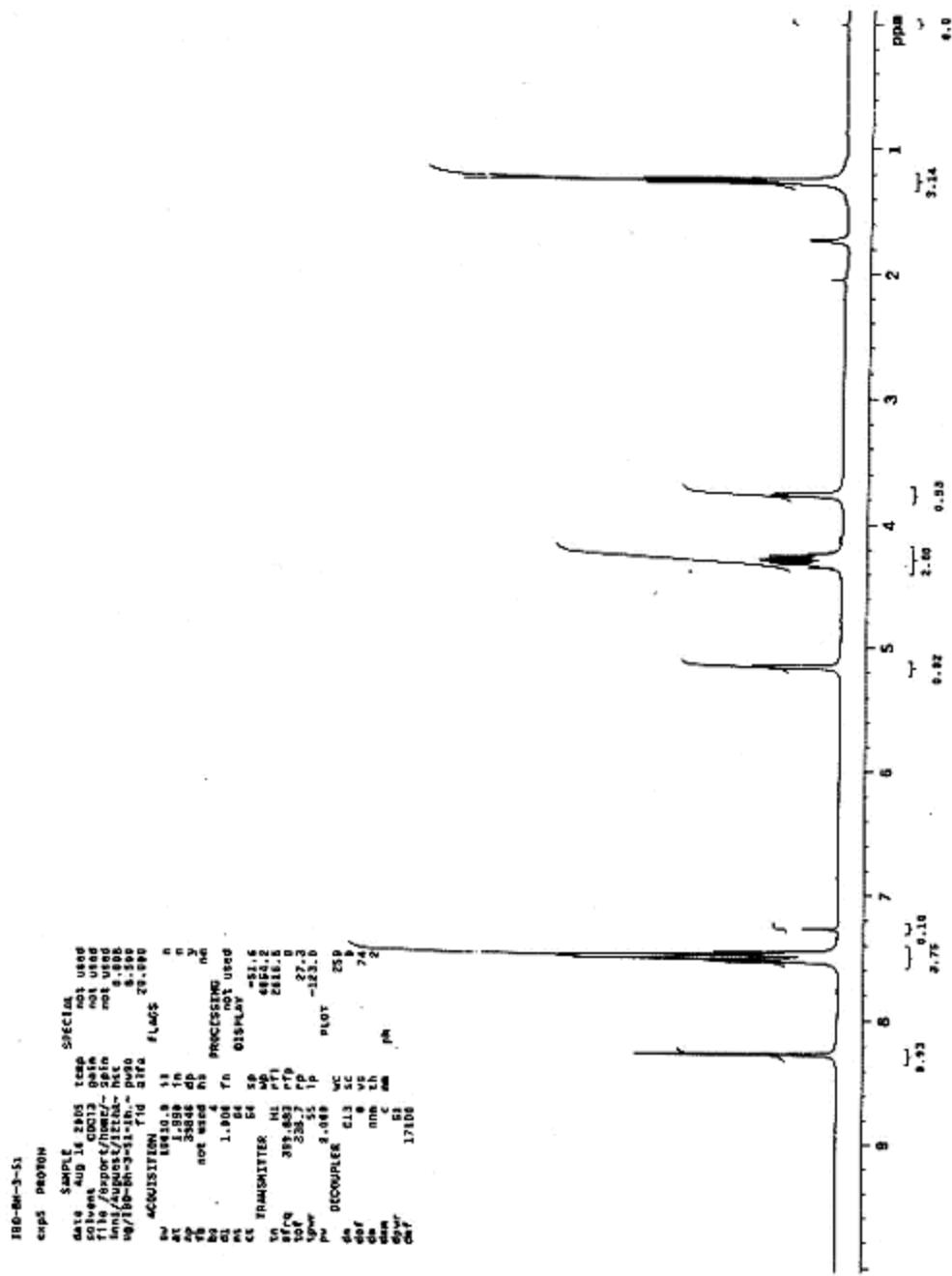
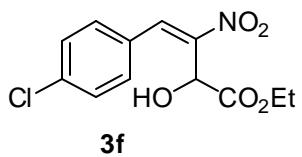
**3e**



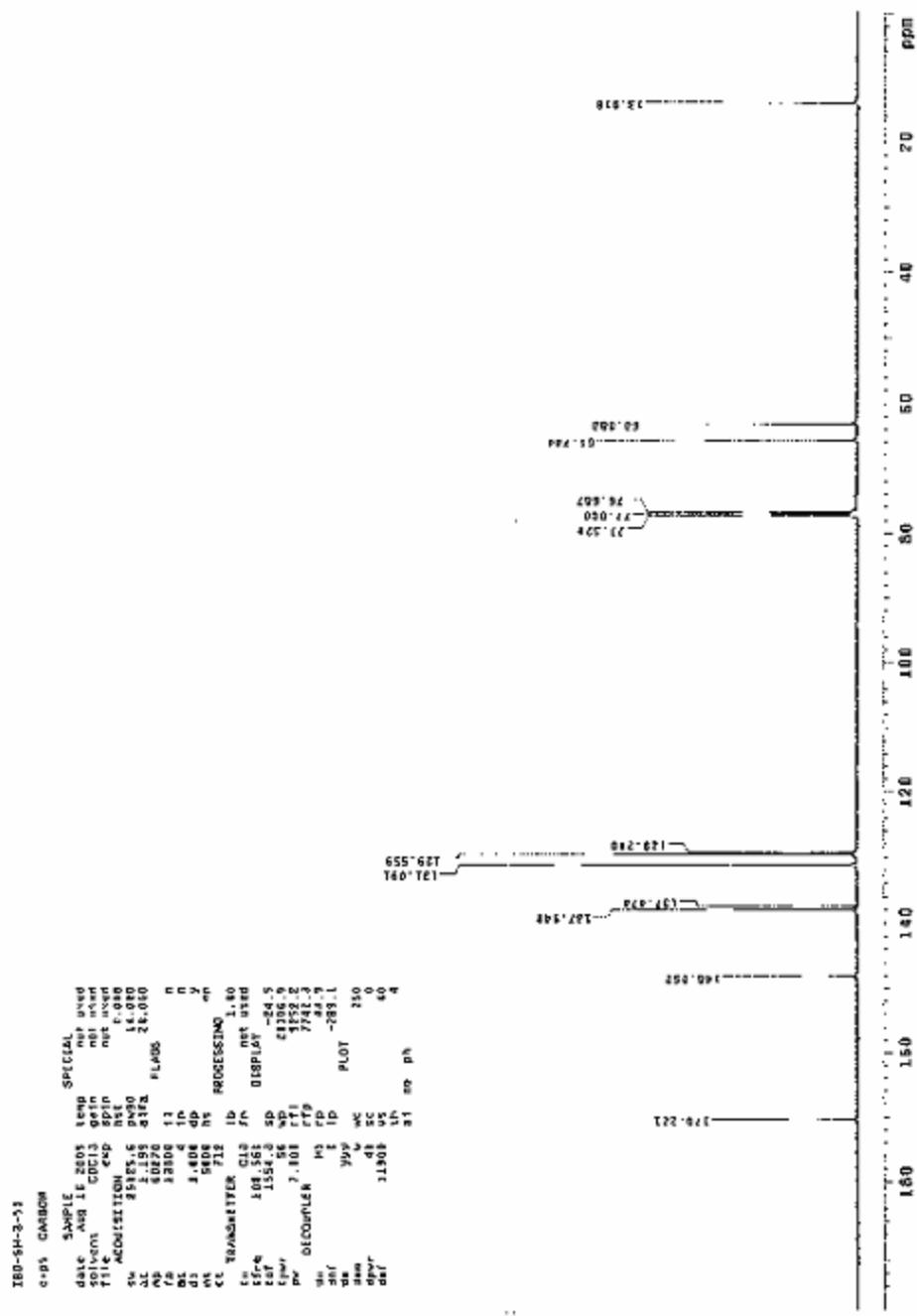
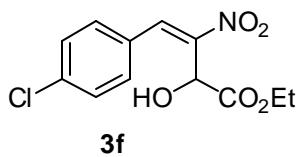


**3e**

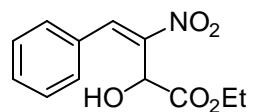




**Figure S12.**  $^1\text{H}$  NMR Spectrum of **3f**



**Figure S13.**  $^{13}\text{C}$  NMR Spectrum of **3f**



**3g**

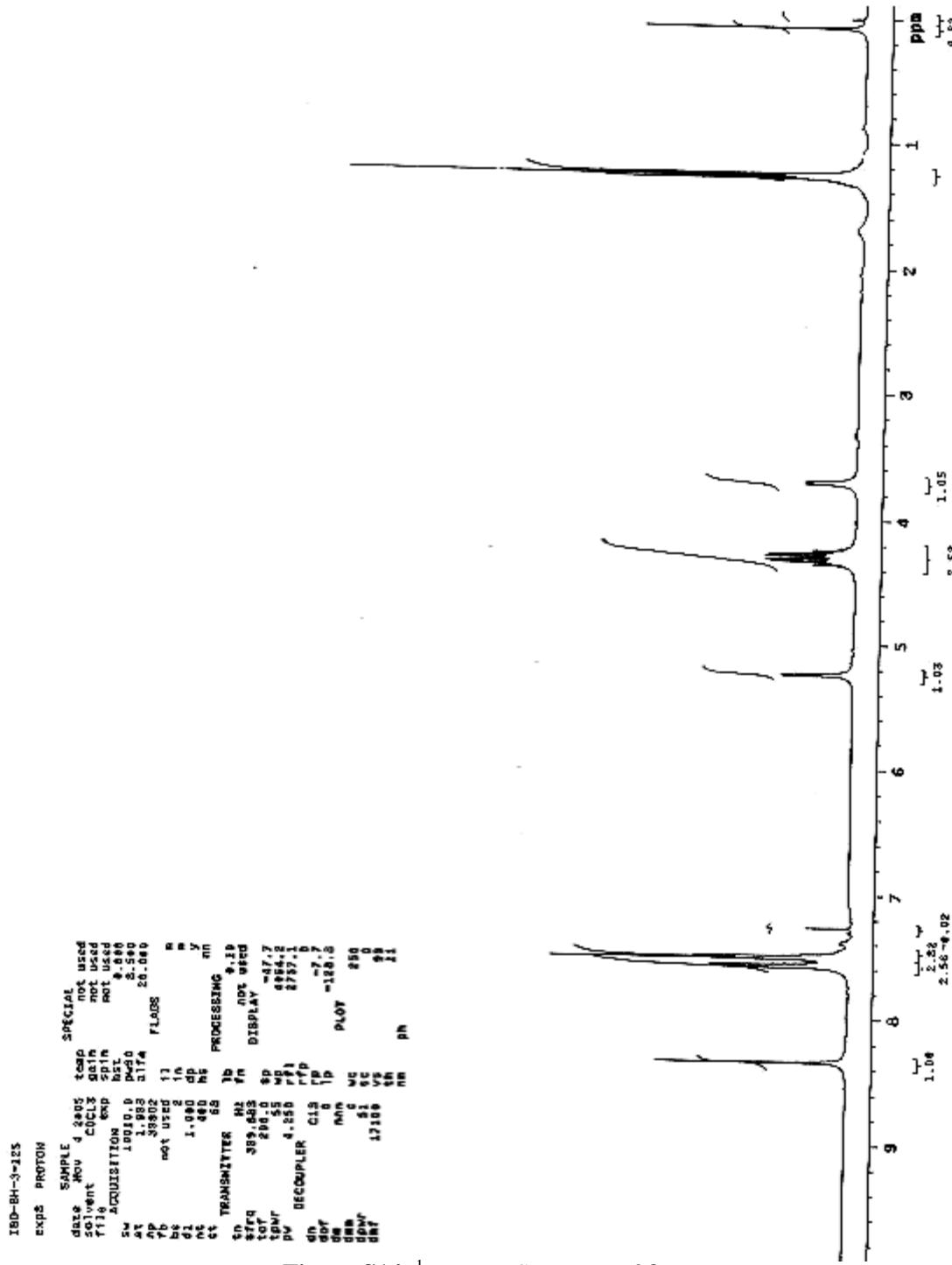
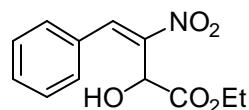
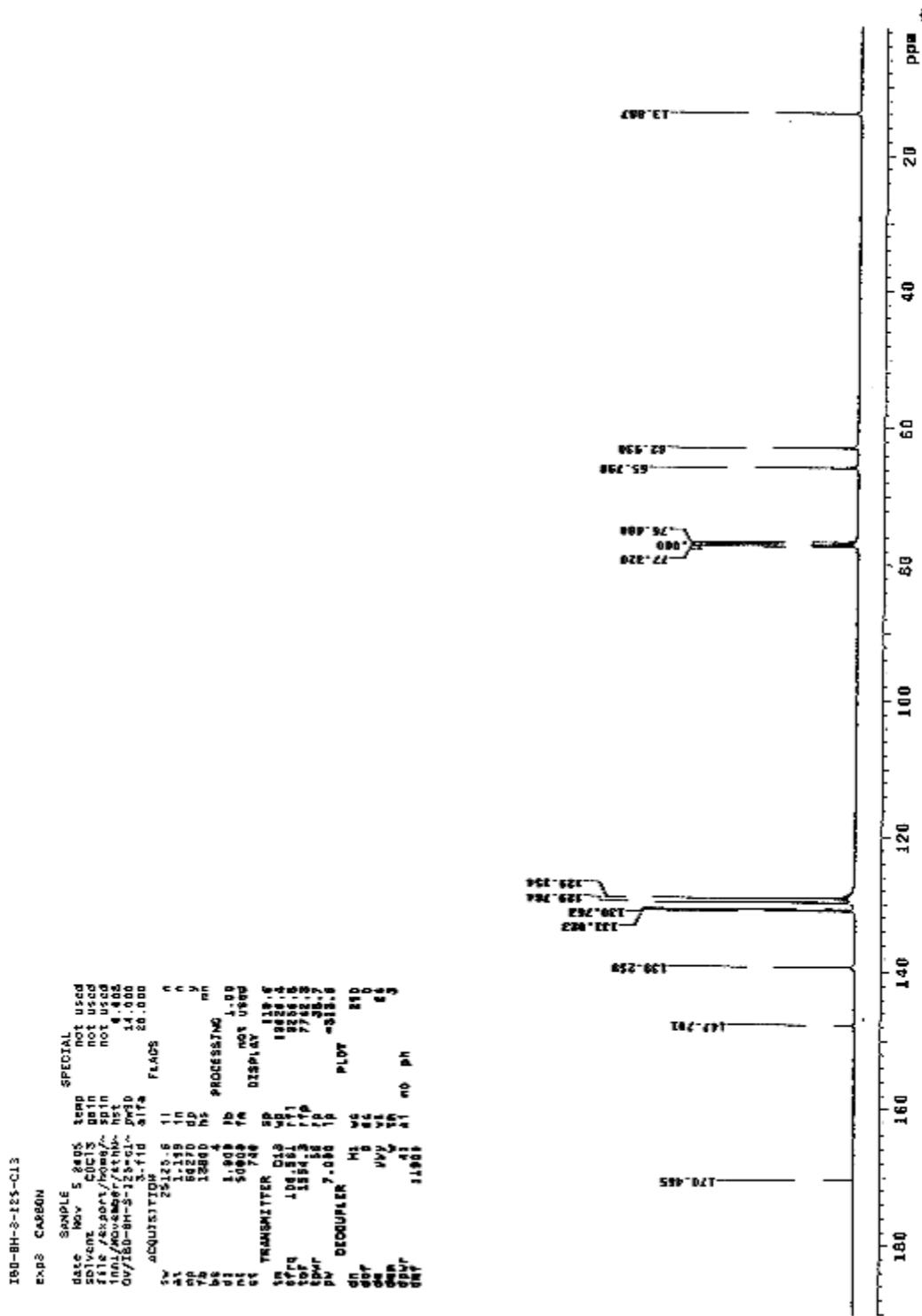
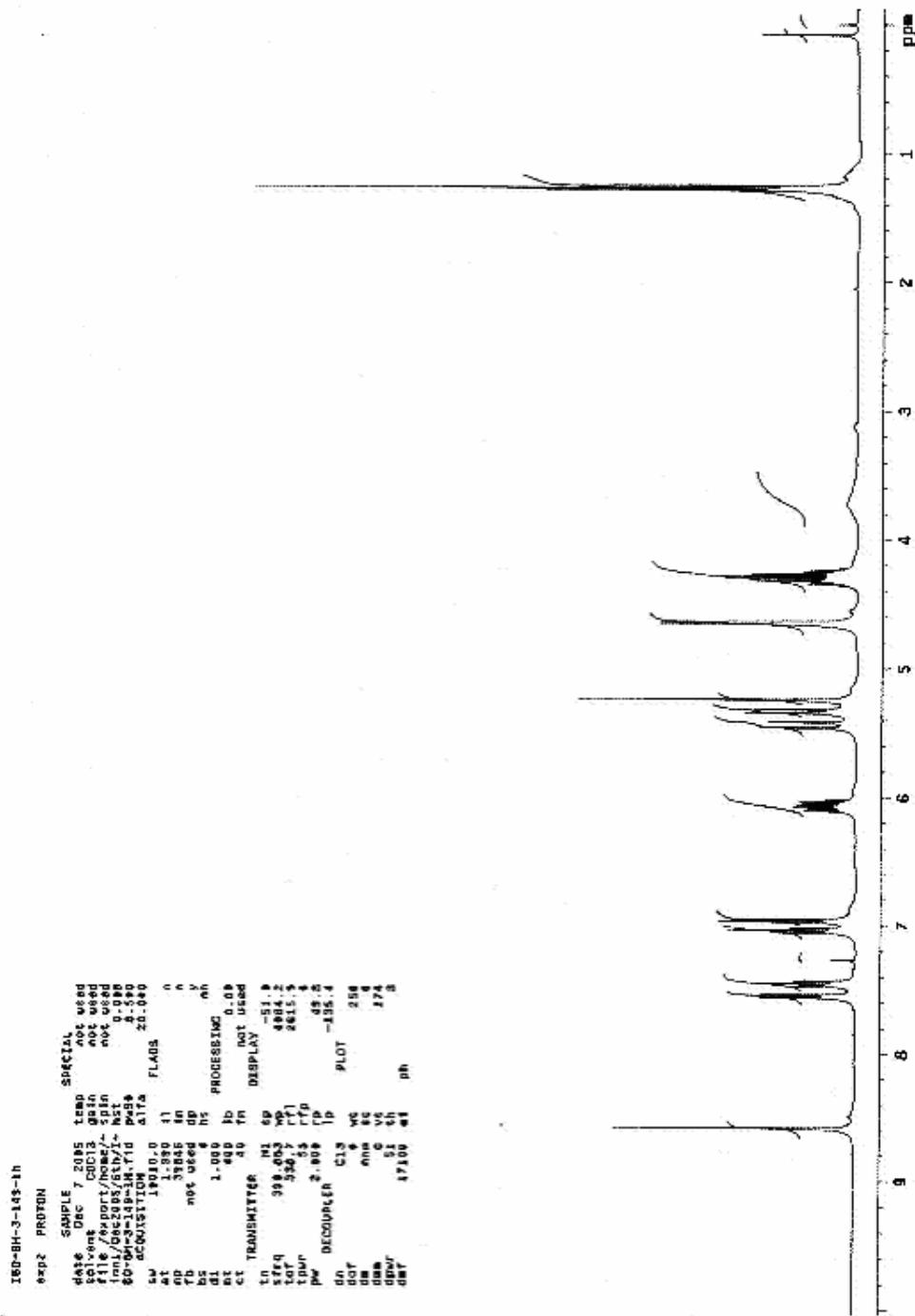
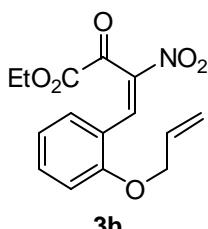


Figure S14.  $^1\text{H}$  NMR Spectrum of **3g**



3g





**Figure S16.**  $^1\text{H}$  NMR Spectrum of 3h

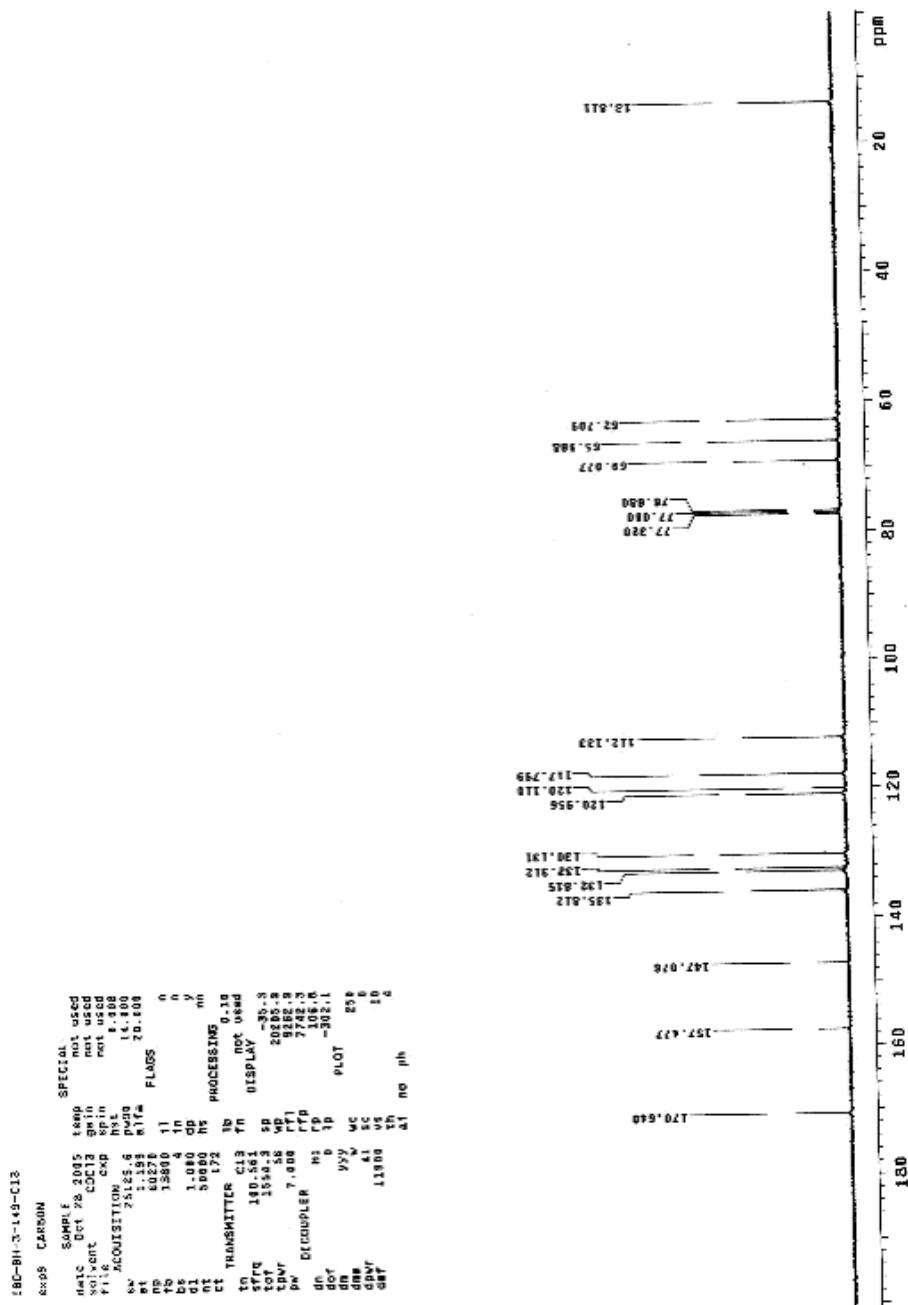
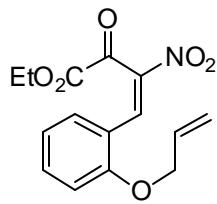
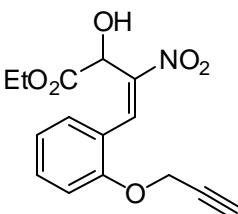
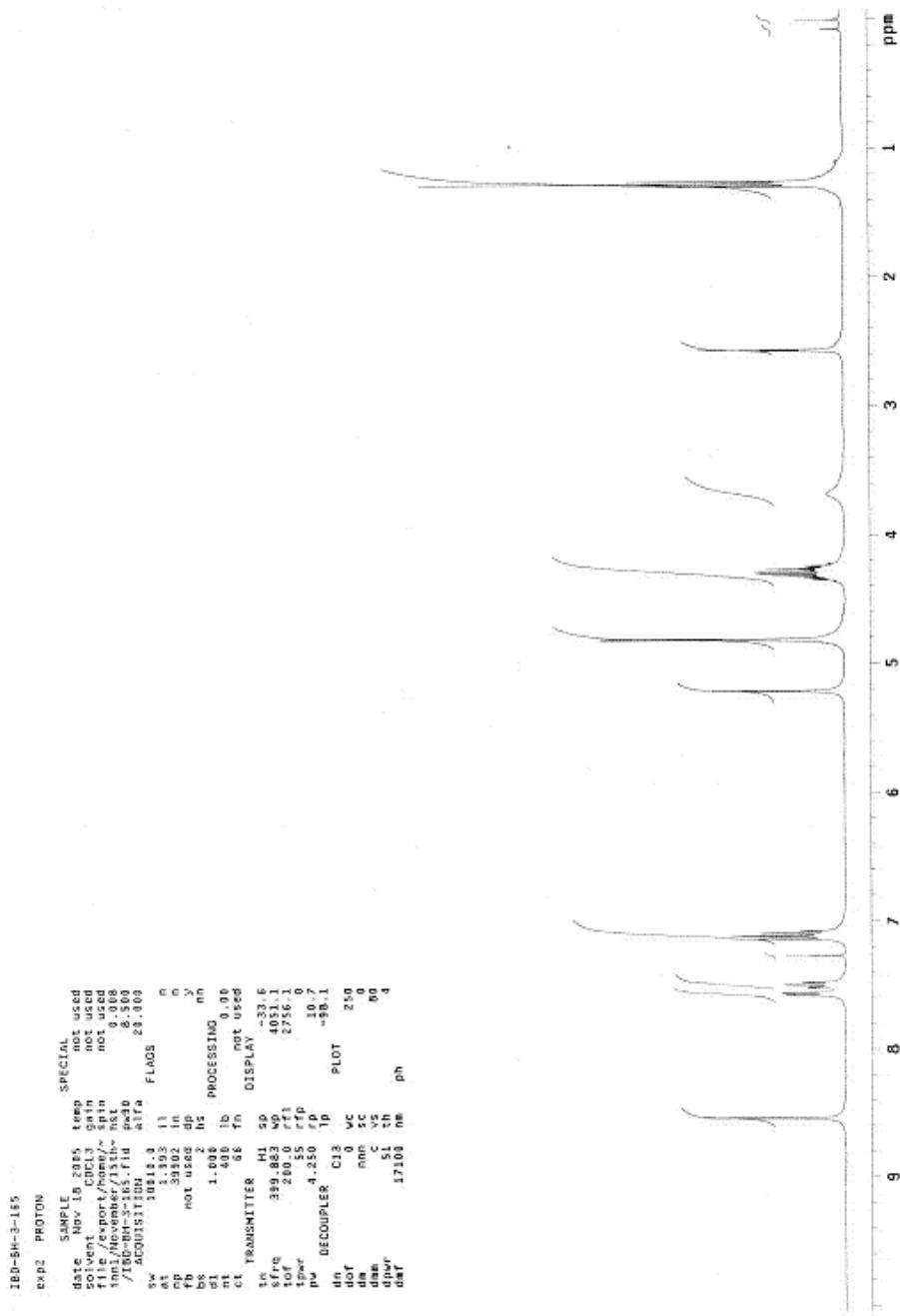
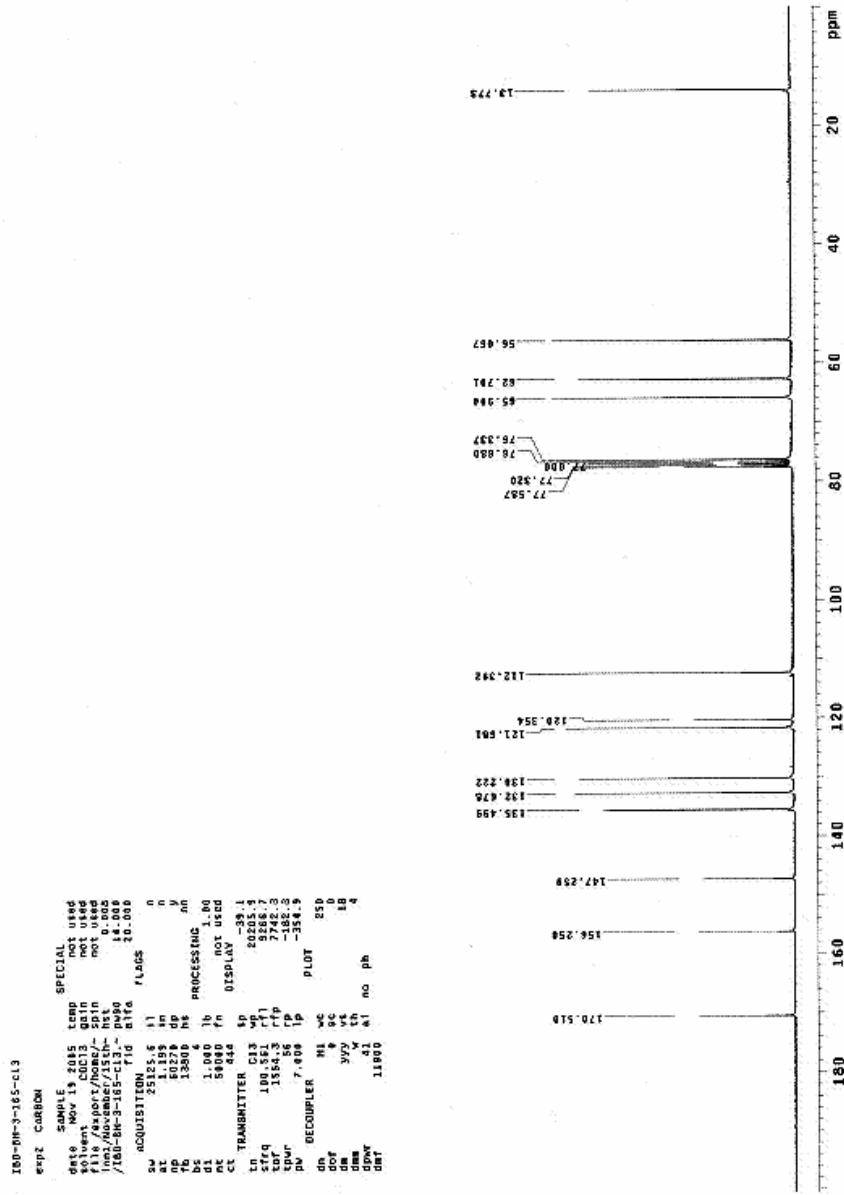
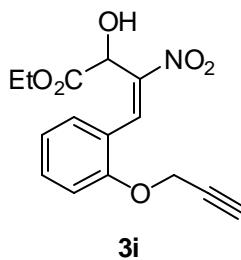


Figure S17. <sup>13</sup>C NMR Spectrum of 3h



**3i**





**Figure S19.**  $^{13}\text{C}$  NMR Spectrum of **3i**

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 SPECIAL  
 SAMPLE  
 date Jul 8 2015 temp not used  
 solvent DMSO spin not used  
 file exp not used  
 hist not used  
 SW 1011.0 psq0 8.303  
 acq 1.193 d1e 26.803  
 np 39902 flags n  
 f1b not used 11  
 bs 2 in  
 d1 1.000 dp n  
 nt 400 y  
 ct 56 processing n  
 TRANSMITTER fn not used  
 tn H1  
 frq 399.884 1D DISPLAY -73.7  
 tef 200.0 1D 467.4  
 tpr 55 RTI 842.5  
 pw 4.250 rfp 0  
 DECOUPLER C13 1D -8.8  
 d1 1.13 1D -137.7  
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 r1f 17100 TH 0.4  
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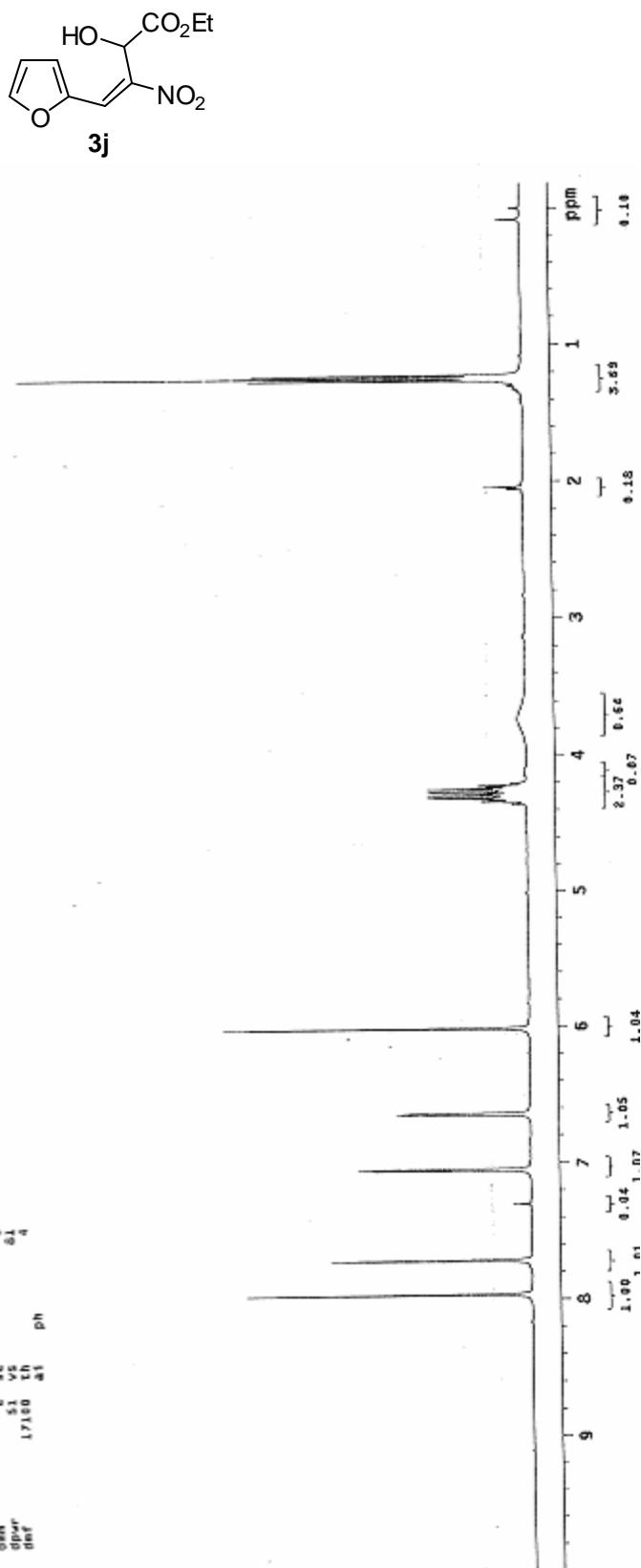
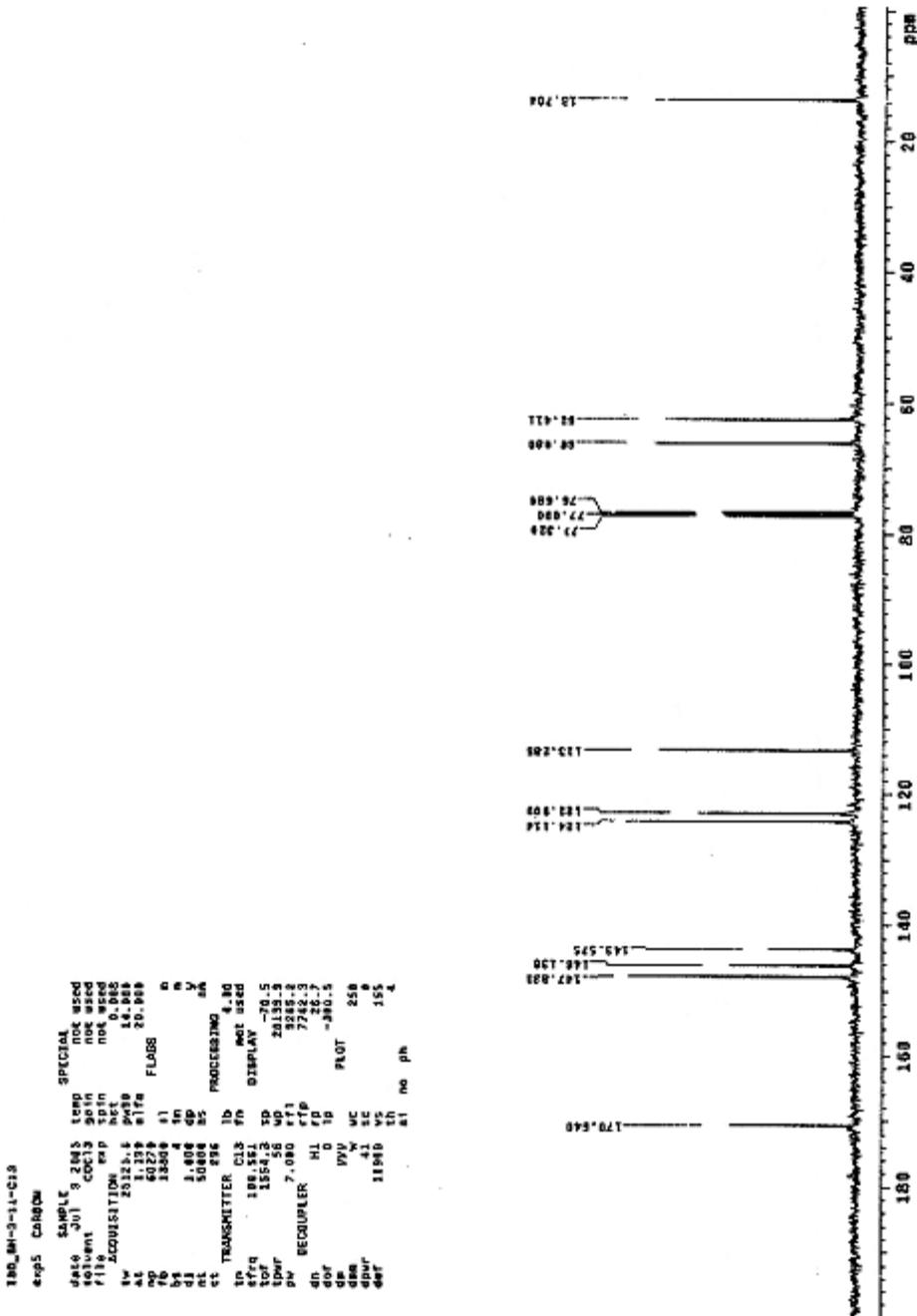
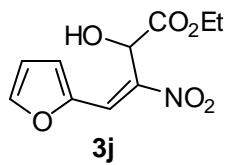
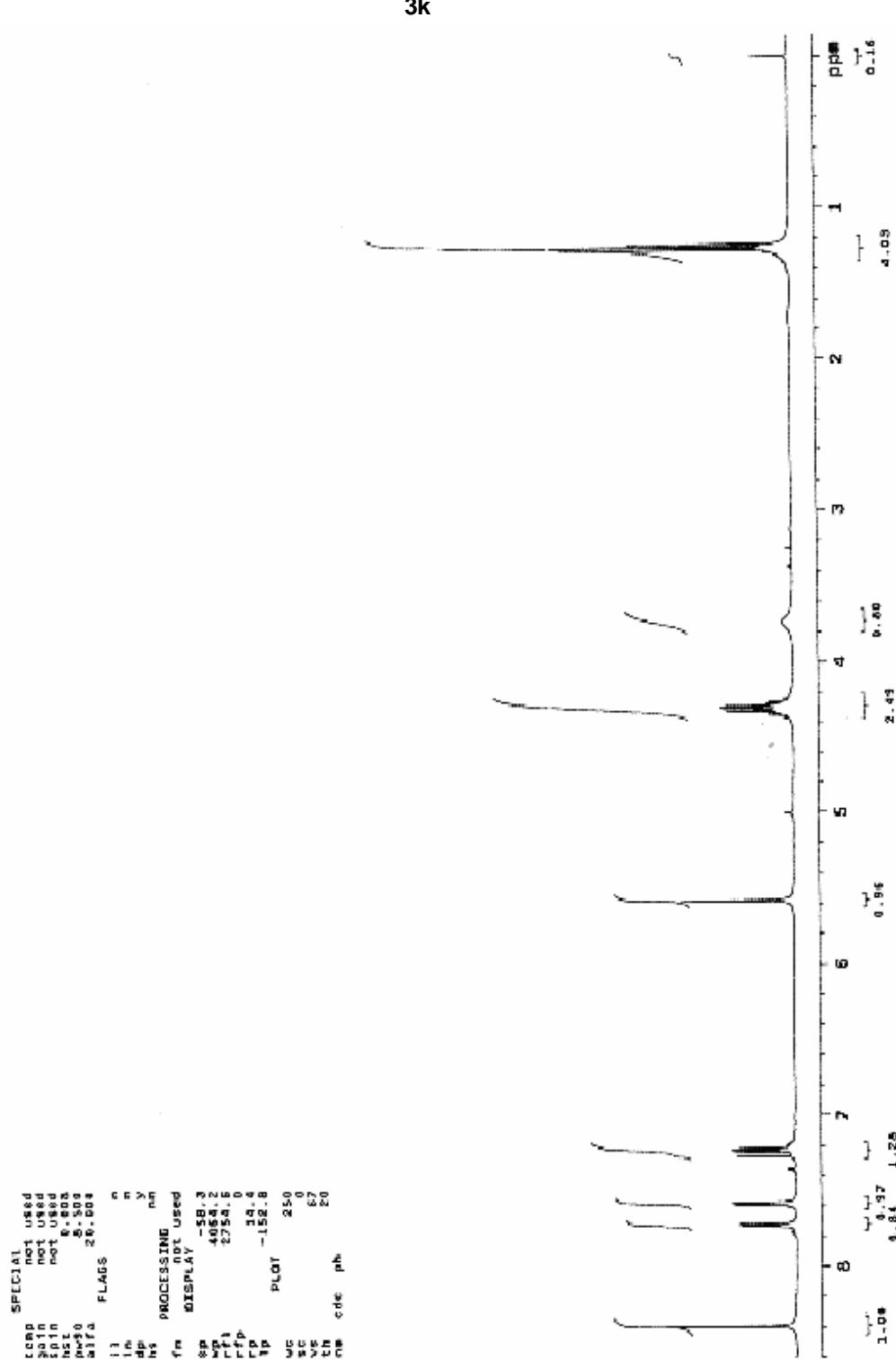
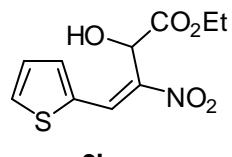


Figure S20.  $^1\text{H}$  NMR Spectrum of **3j**



**Figure S21.**  $^{13}\text{C}$  NMR Spectrum of **3j**



**Figure S22.**  $^1\text{H}$  NMR Spectrum of **3k**

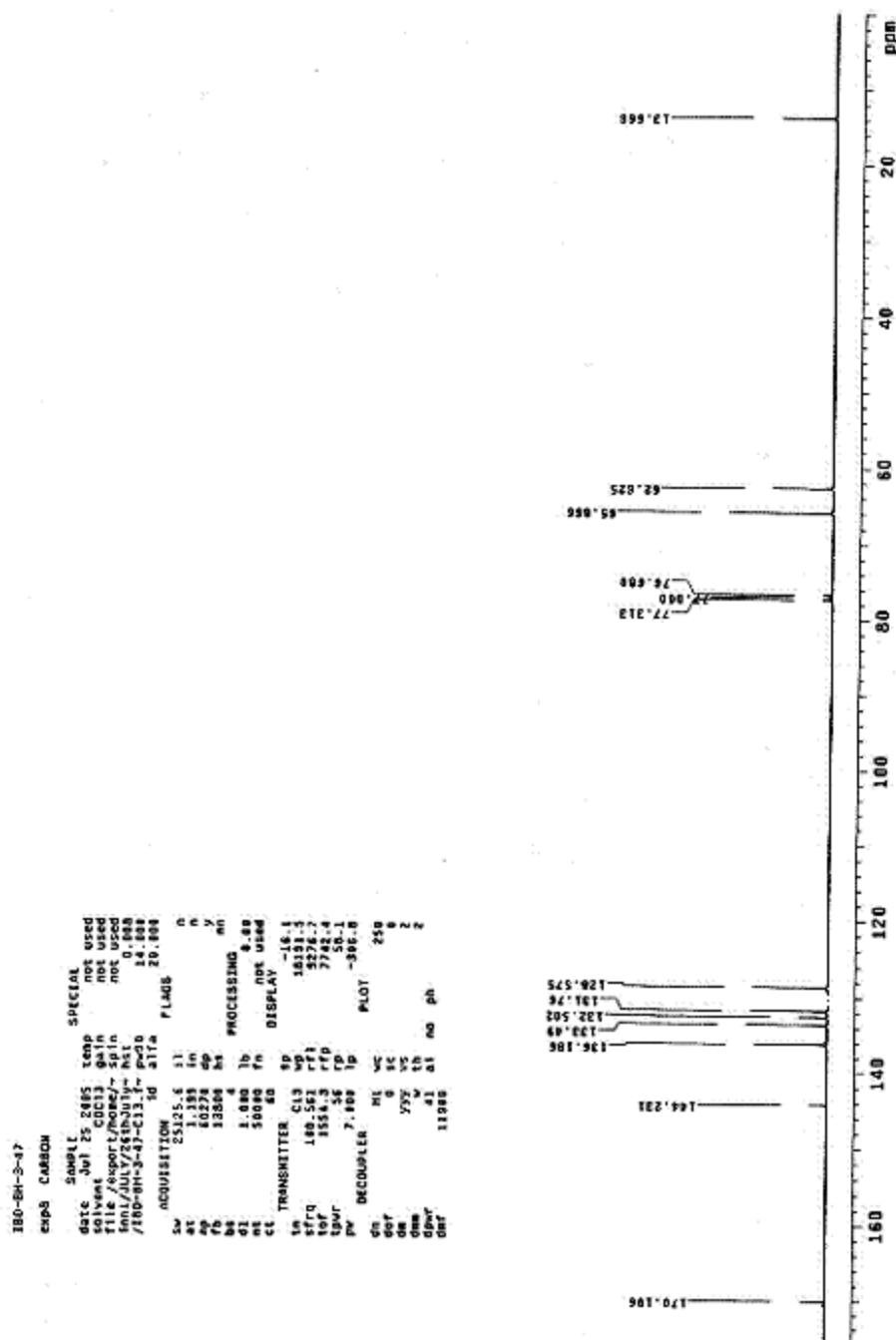
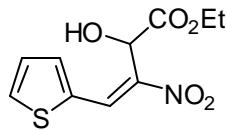
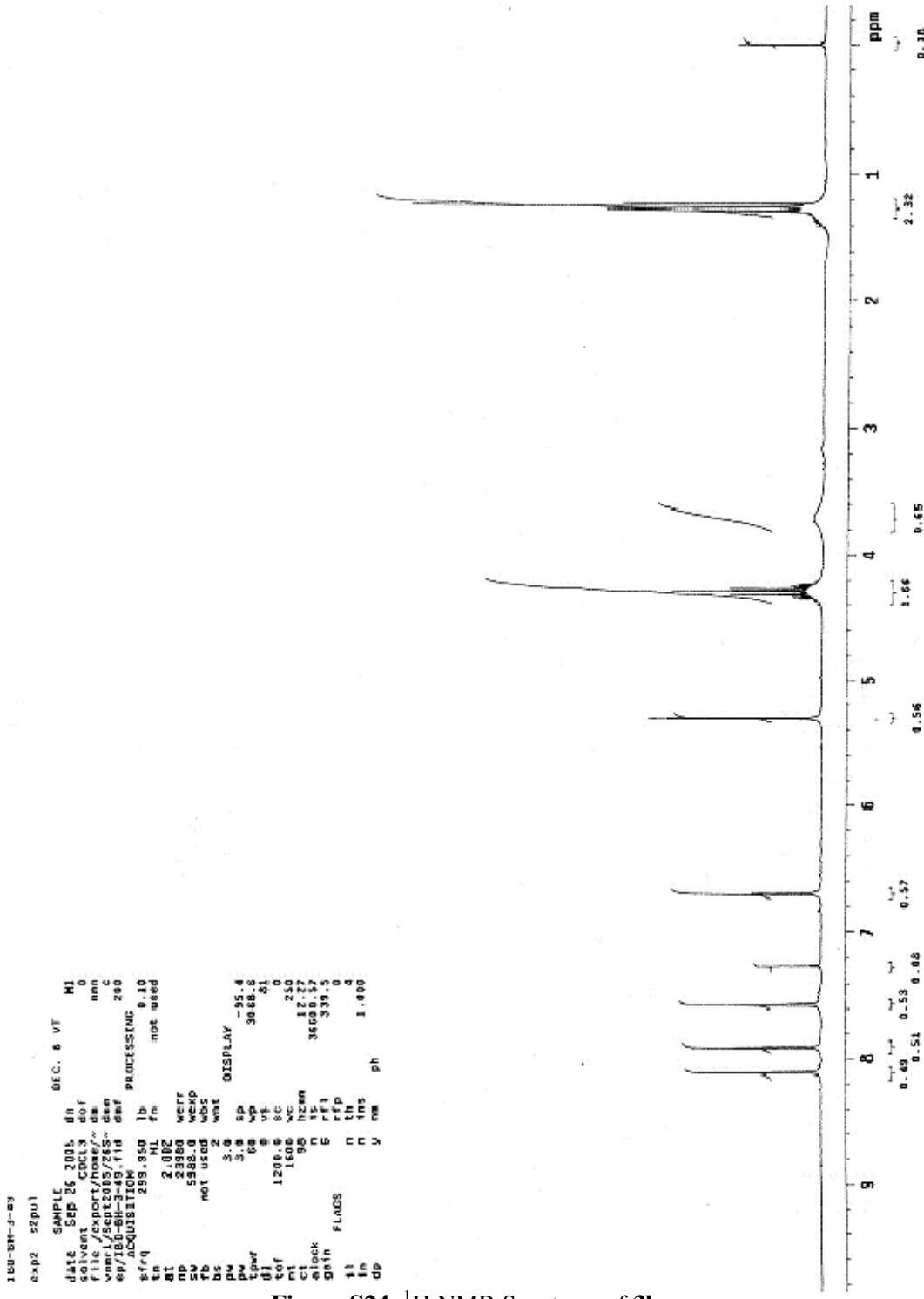
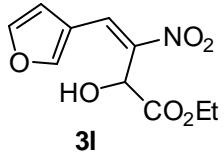
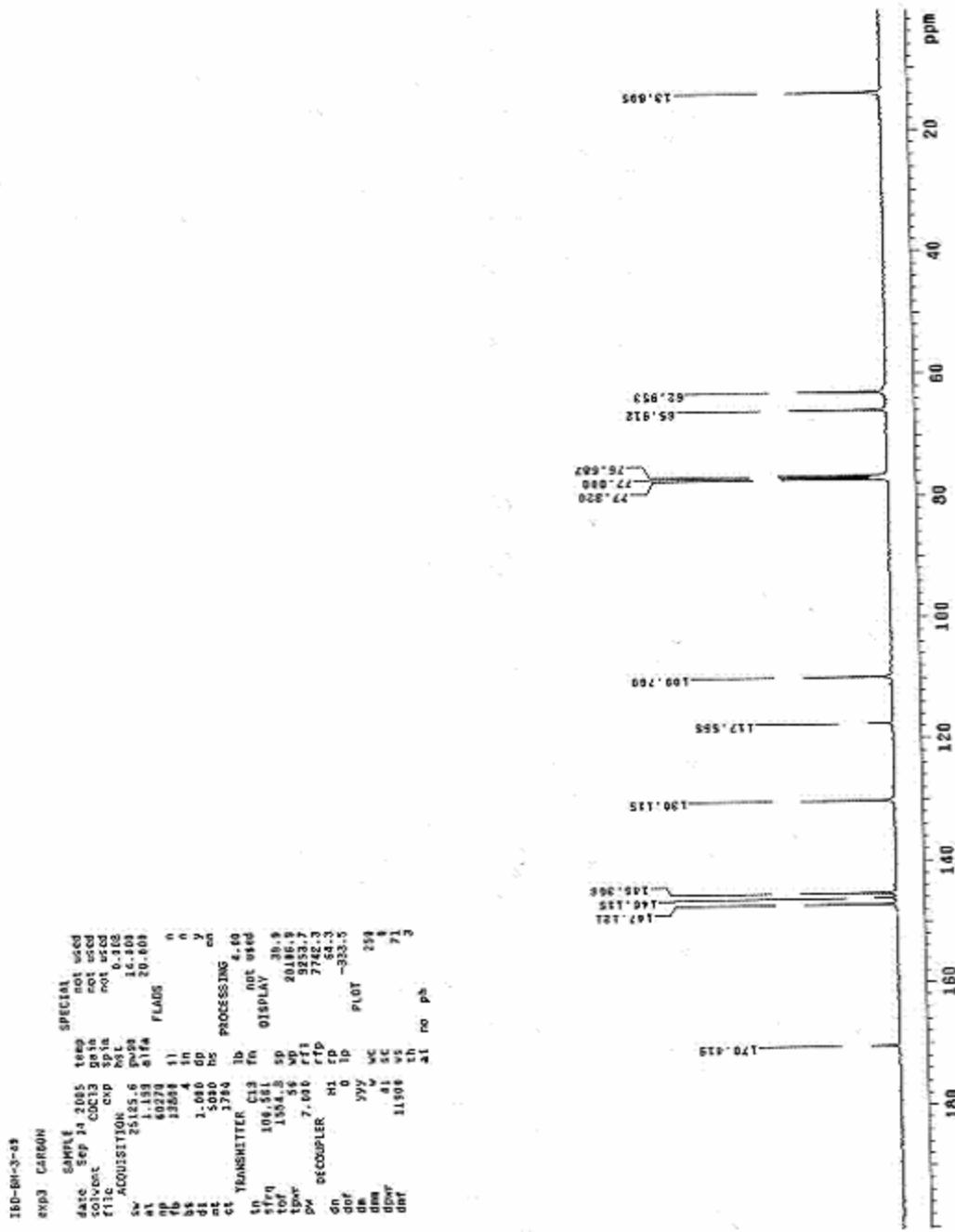
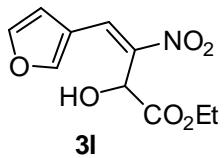


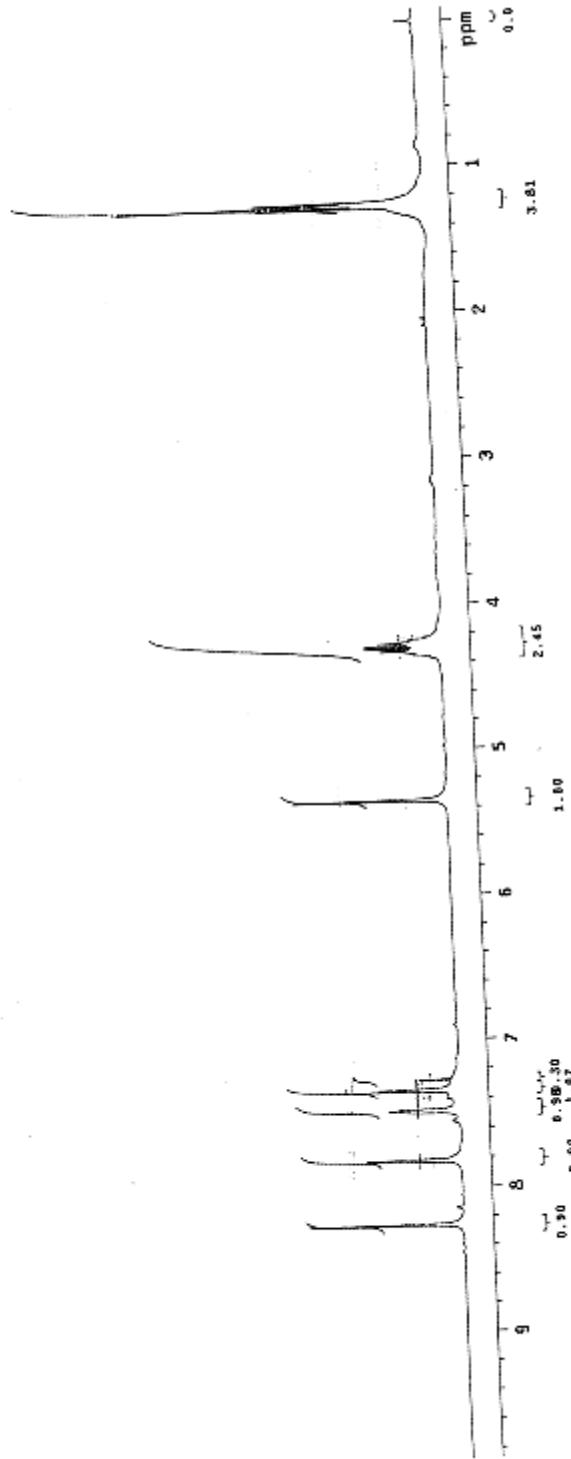
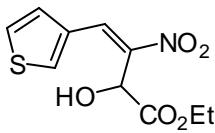
Figure S23. <sup>13</sup>C NMR Spectrum of 3k



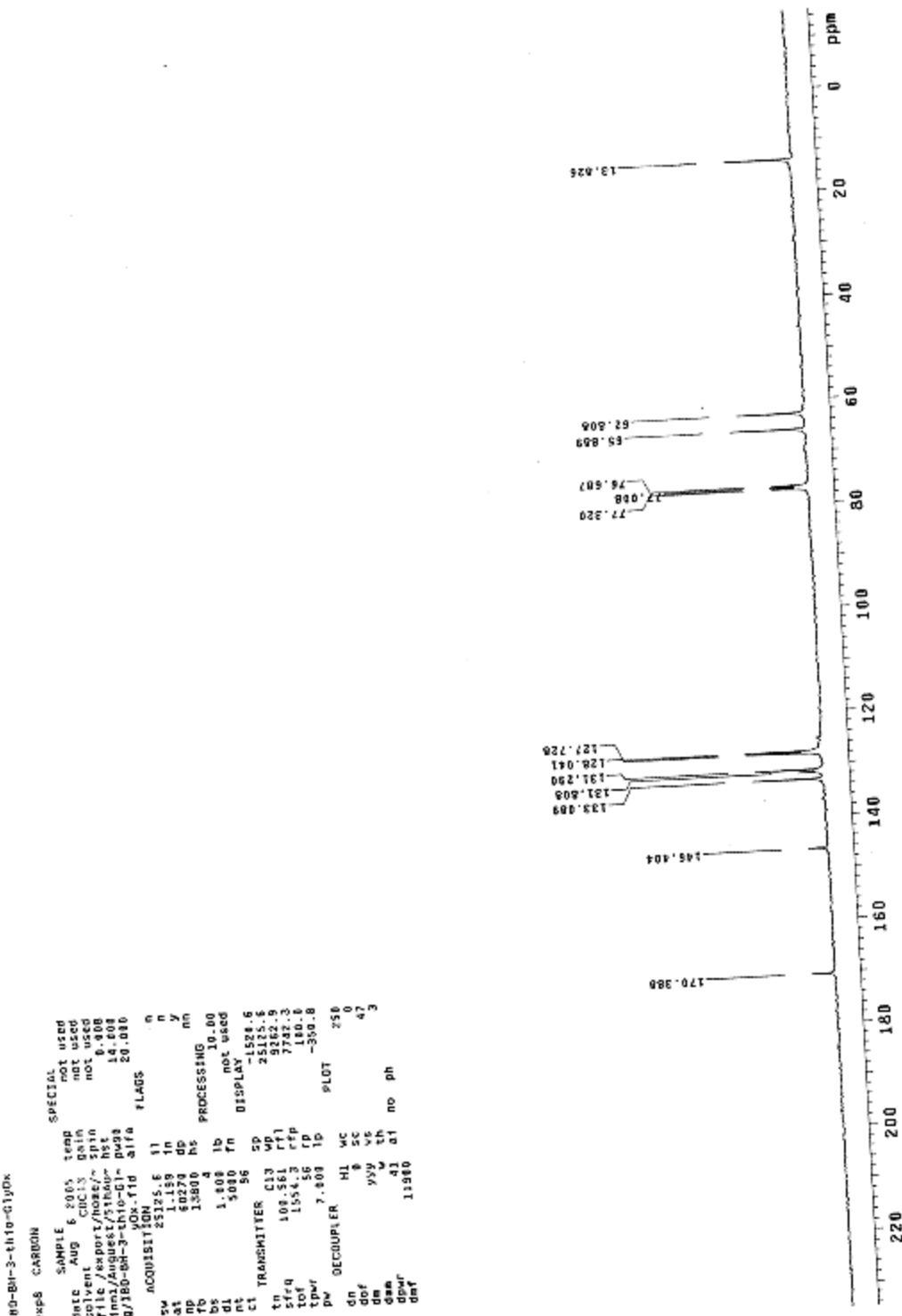
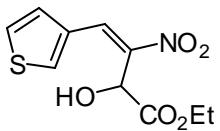
**Figure S24.**  $^1\text{H}$  NMR Spectrum of **3l**



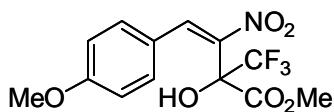
**Figure S25.**  $^{13}\text{C}$  NMR Spectrum of **3l**



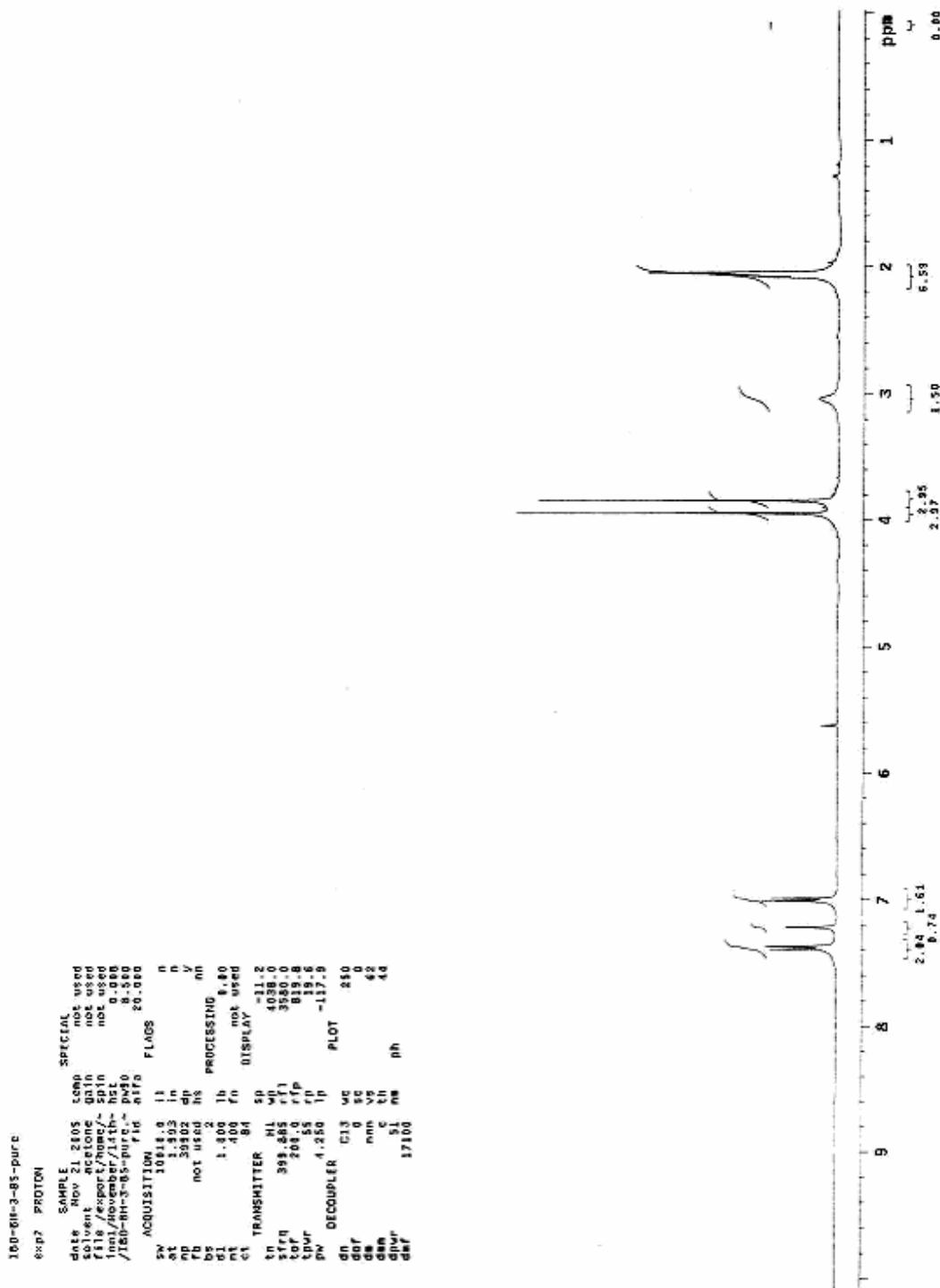
**Figure S26.**  $^1\text{H}$  NMR Spectrum of **3m**



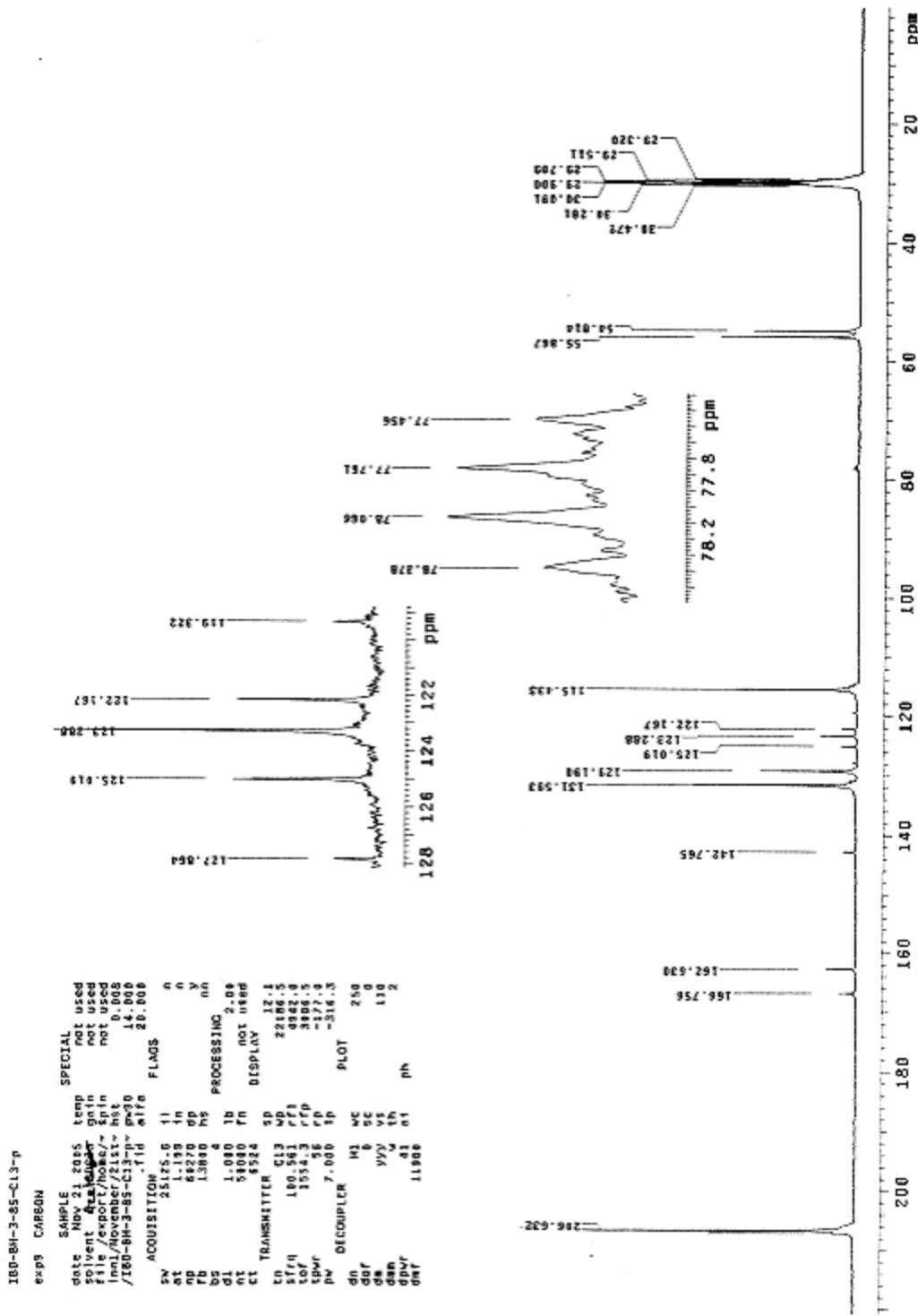
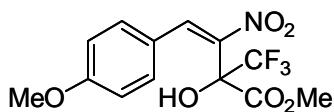
**Figure S27.**  $^{13}\text{C}$  NMR Spectrum of **3m**



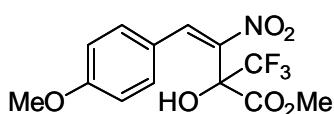
**4c**



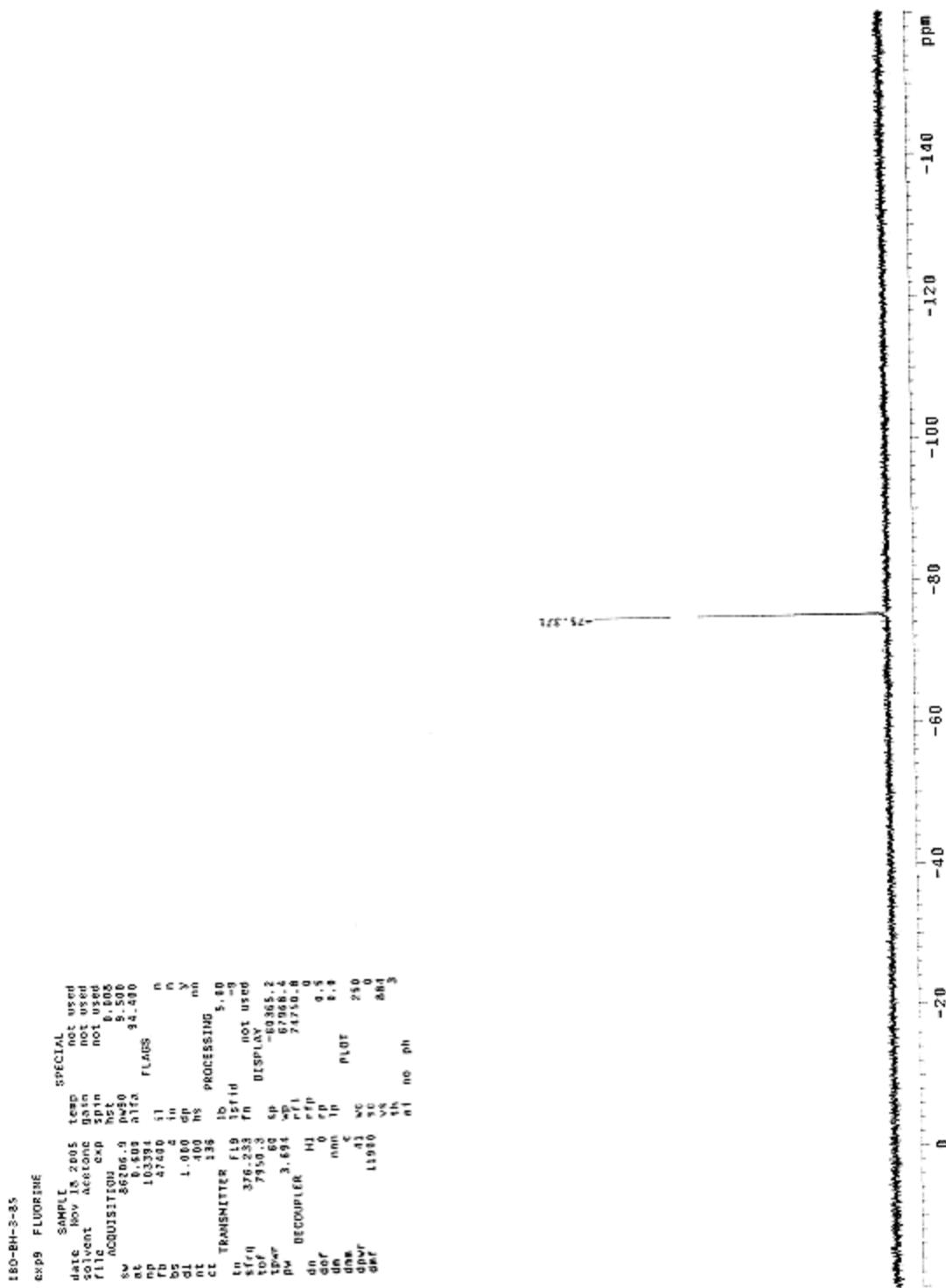
**Figure S28.**  $^1\text{H}$  NMR Spectrum of **4c**



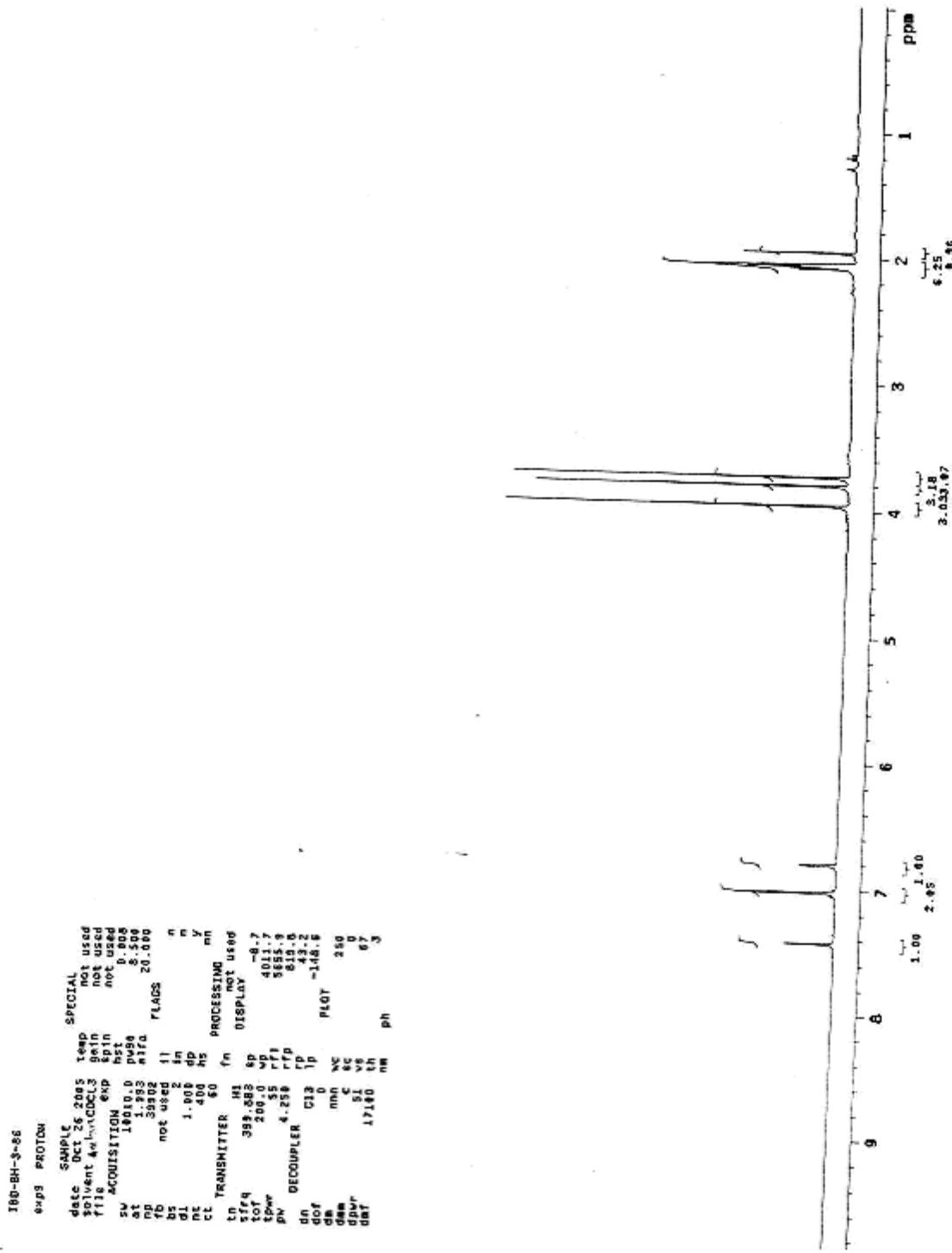
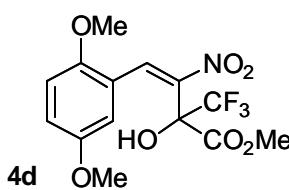
**Figure S29.**  $^{13}\text{C}$  NMR Spectrum of **4c**

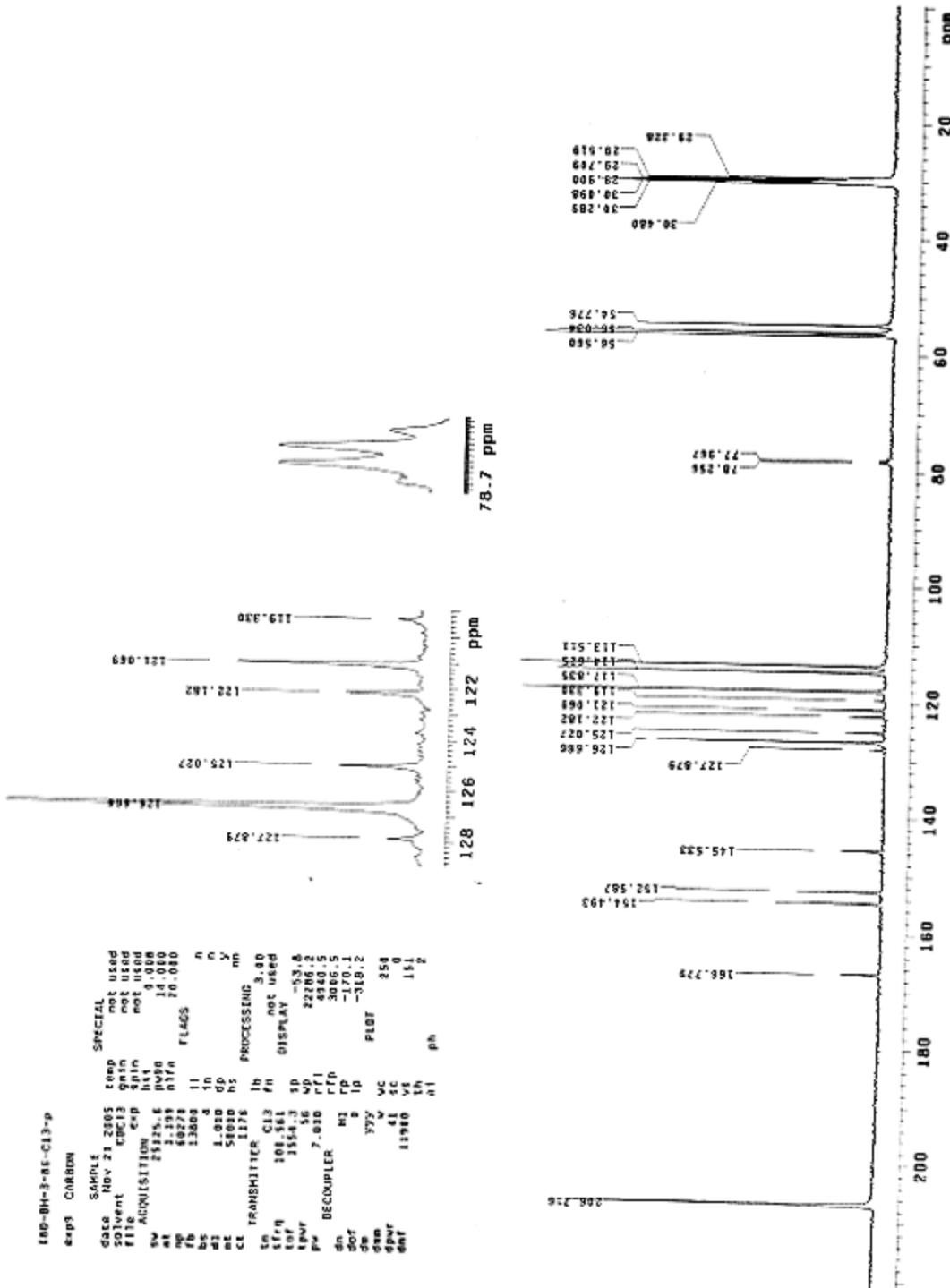
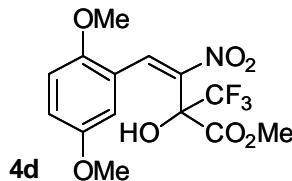


**4c**

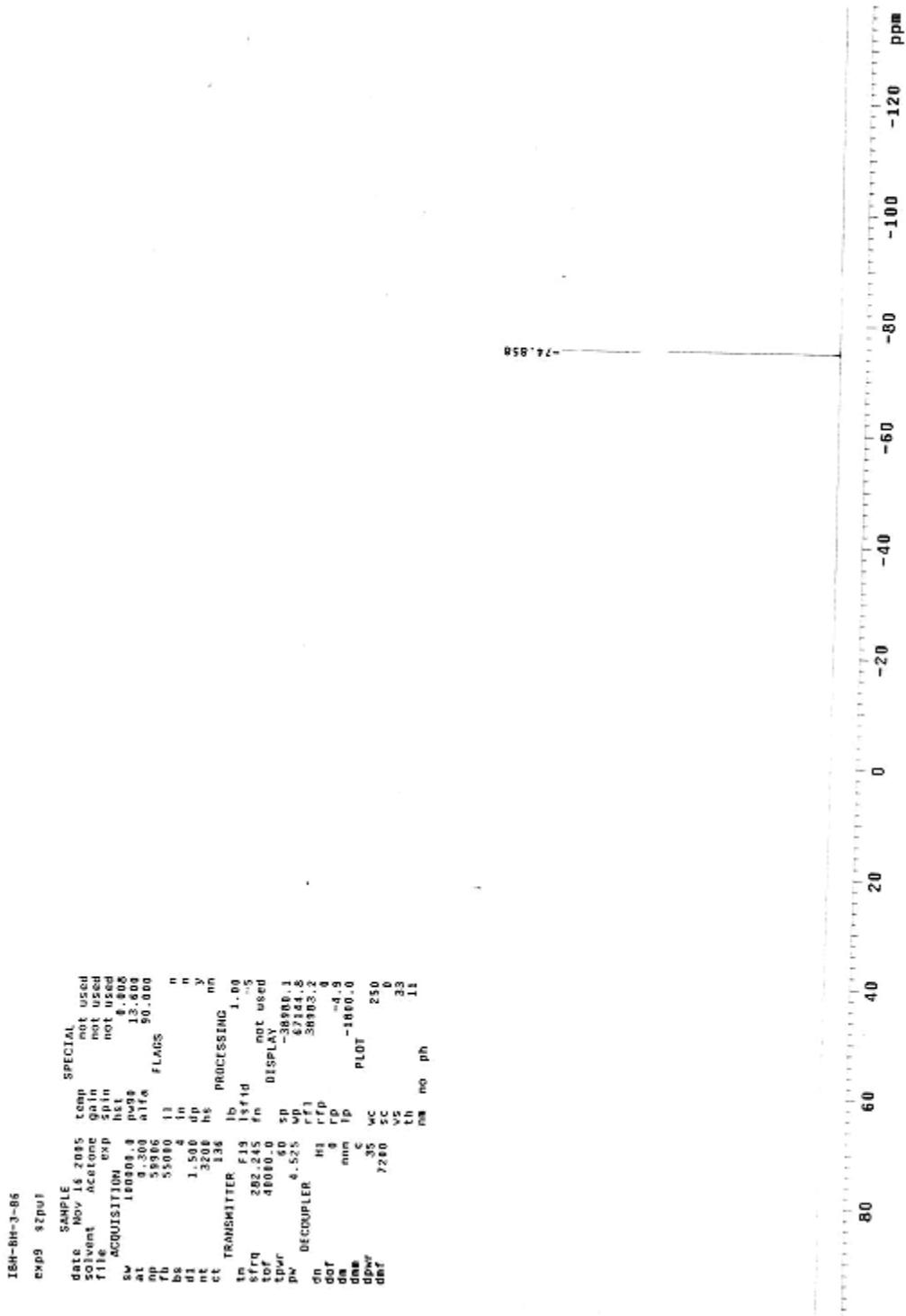
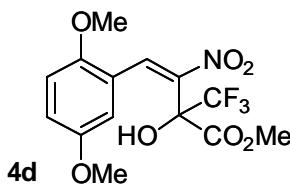


**Figure S30.**  $^{19}\text{F}$ NMR Spectrum of **4c**

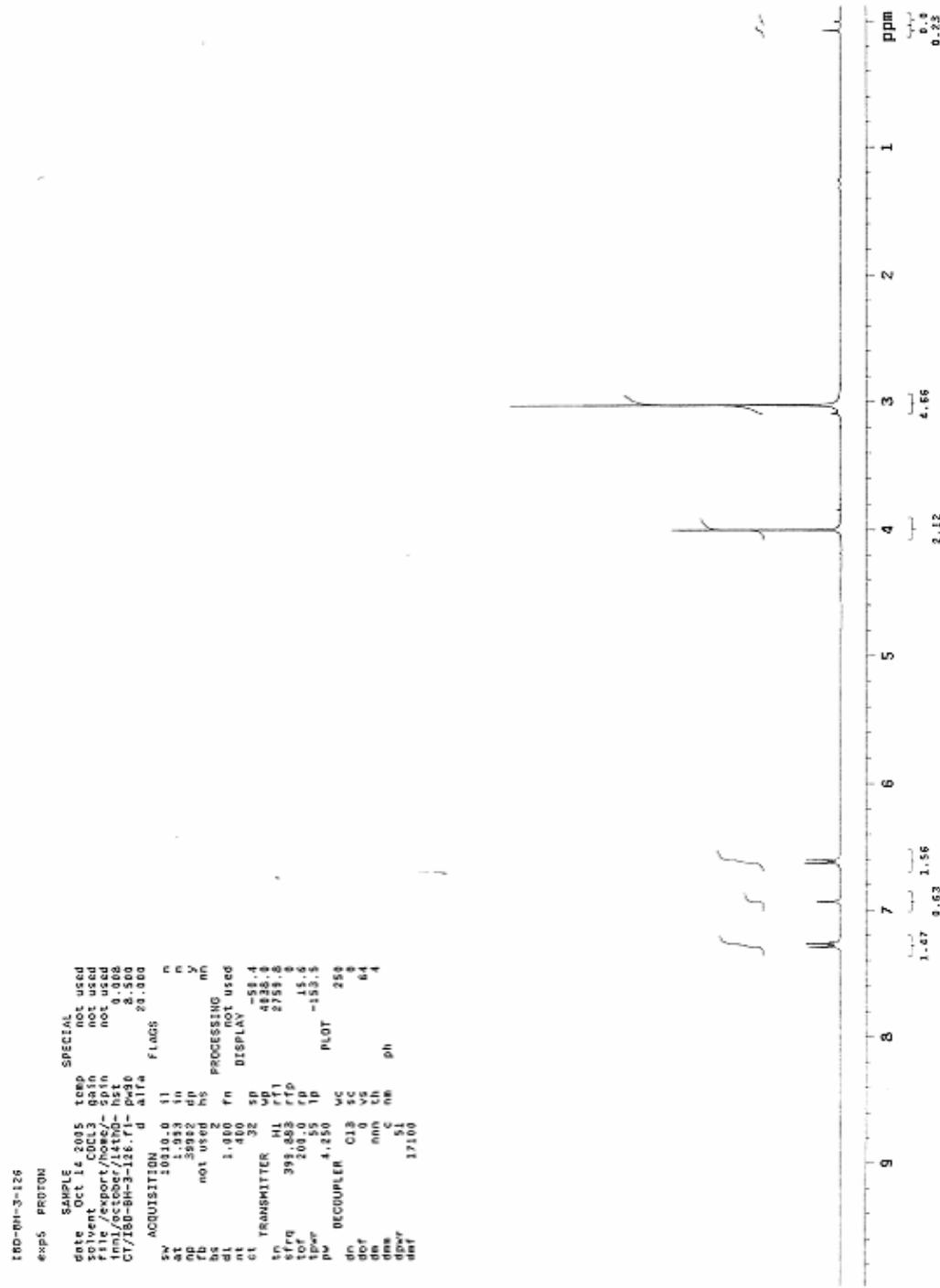
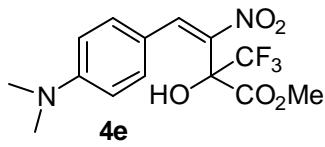




**Figure S32.**  $^{13}\text{C}$  NMR Spectrum of 4d



**Figure S33.**  $^{19}\text{F}$ NMR Spectrum of **4d**



**Figure S34.** <sup>1</sup>H NMR Spectrum of 4e

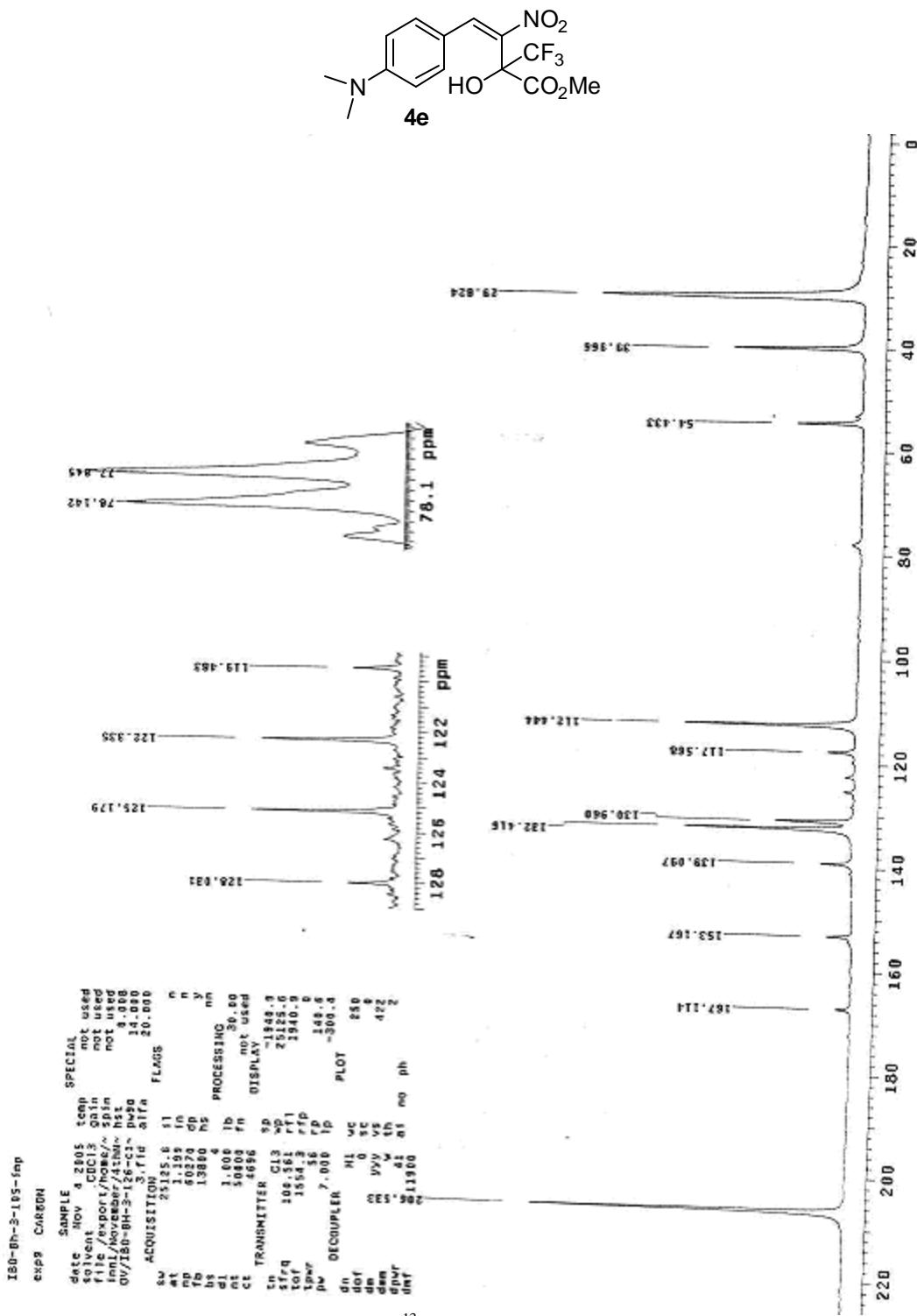
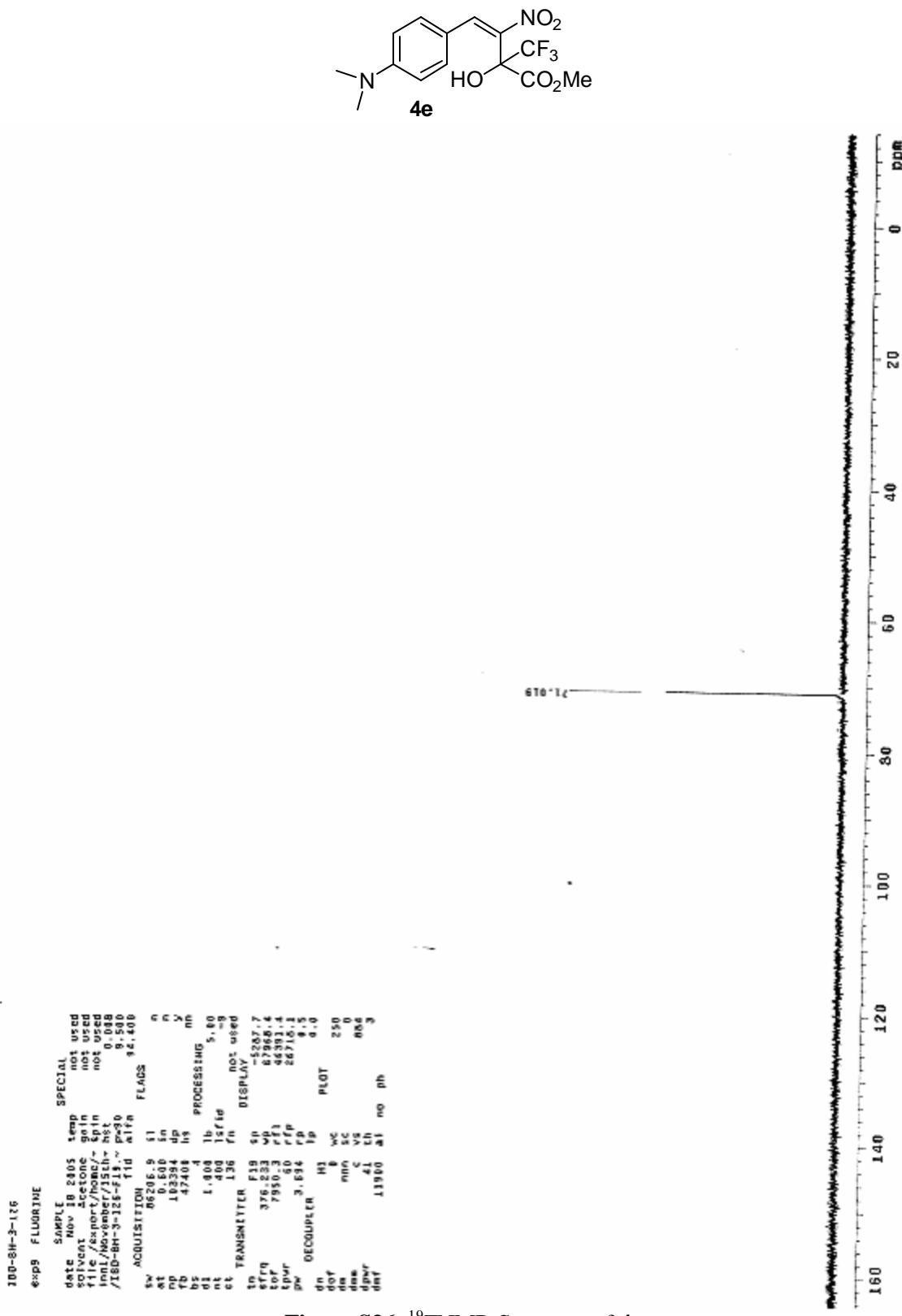


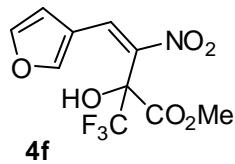
Figure S35. <sup>13</sup>C NMR Spectrum of 4e



**Figure S36.**  $^{19}\text{F}$ NMR Spectrum of **4e**

IBD-SH-3-107  
ENDS PROTON

SPECIAL  
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solvent CDCl<sub>3</sub> gain not used  
file /export/home/~ spin not used  
ini /september/28/- hist 0.005  
h/100-MH-3-107.fid p100 0.500  
ACQUISITION airn 20.000  
sw 1000.0 l1 n  
st 1.930 11 n  
np 3264s in  
f1 not used dp y  
t1 4 hs PROCESSING mn  
d1 1.000 1b 0.61  
nt 1.64 1b not used  
ct 64 fn not used  
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trf 388.7 w3 2818.4  
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pw 2.000 rp 11.3  
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dtmr 17160 th 2  
dar a1 ph



4f

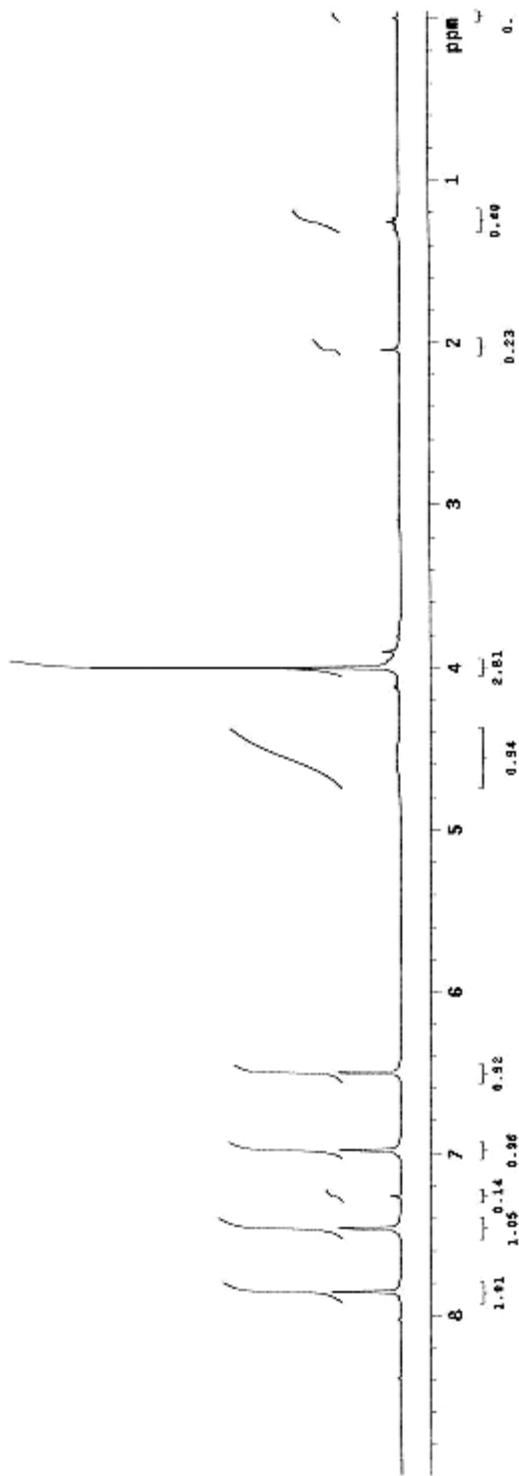


Figure S37 <sup>1</sup>H NMR Spectrum of 4f

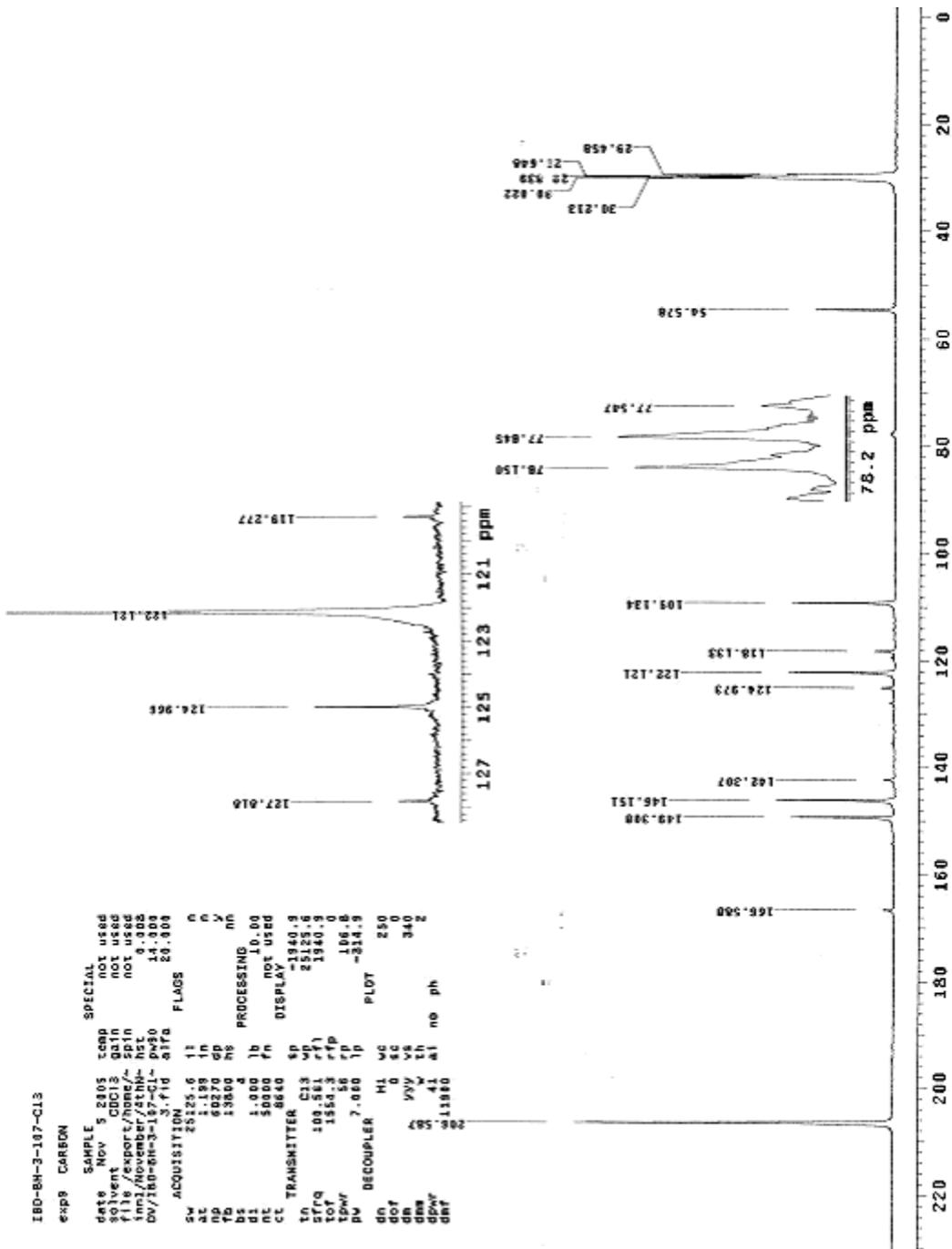
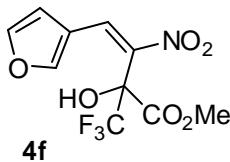
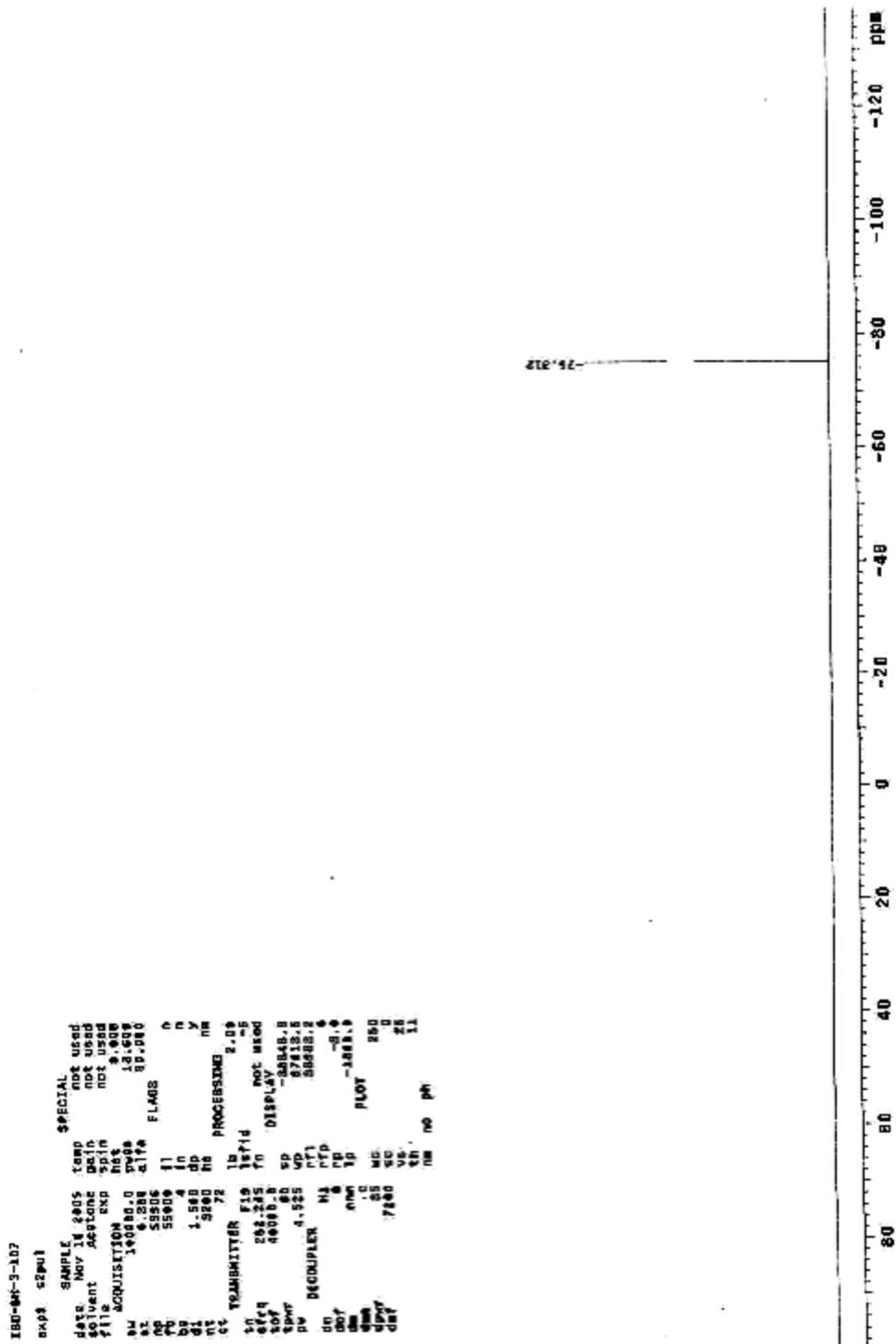
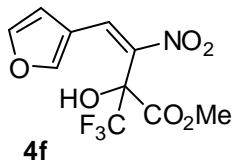
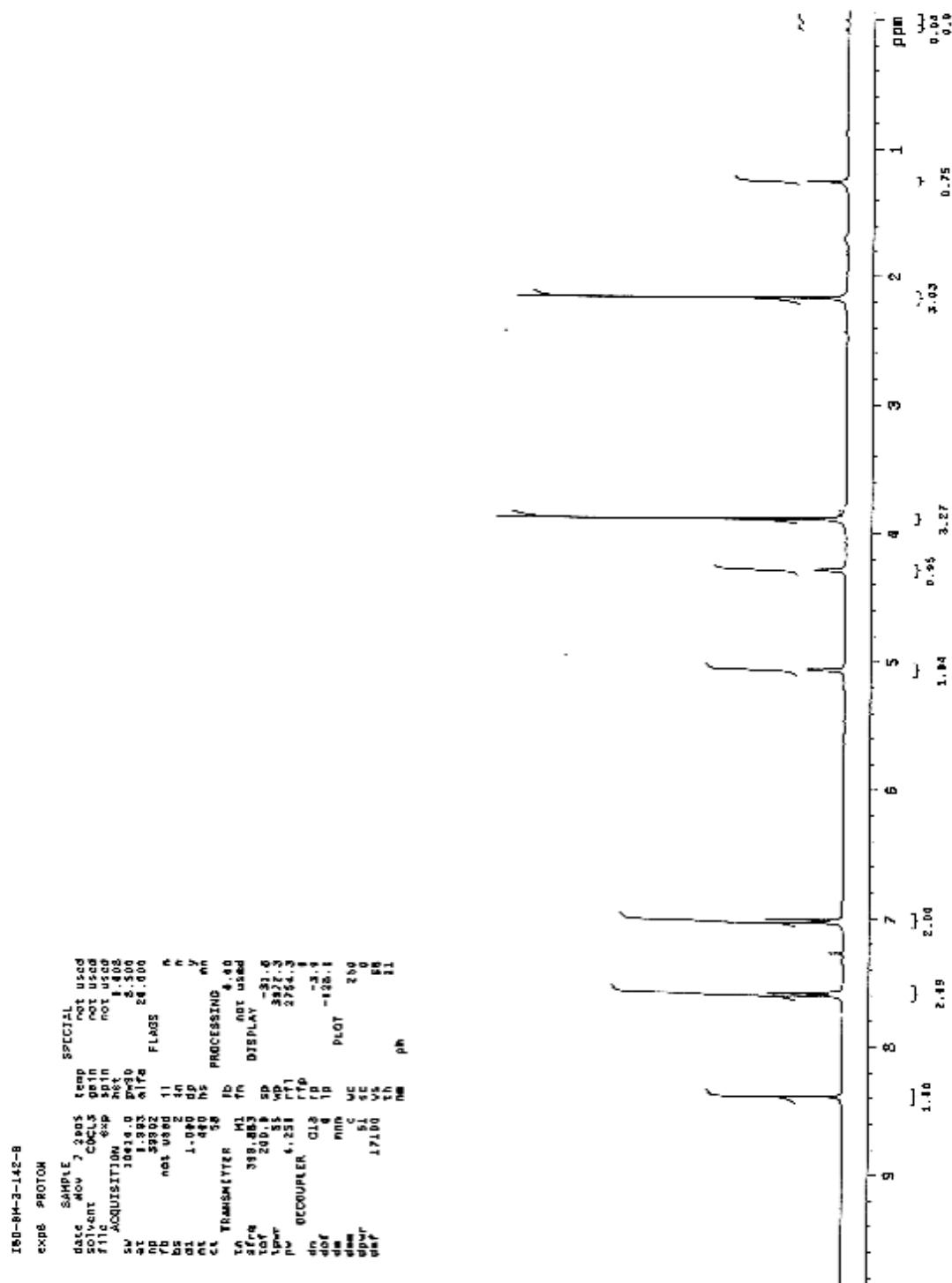
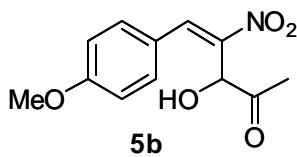


Figure S38. <sup>13</sup>C NMR Spectrum of **4f**



**Figure S39.**  $^{19}\text{F}$ NMR Spectrum of **4f**



**Figure S40.**  $^1\text{H}$  NMR Spectrum of **5b**

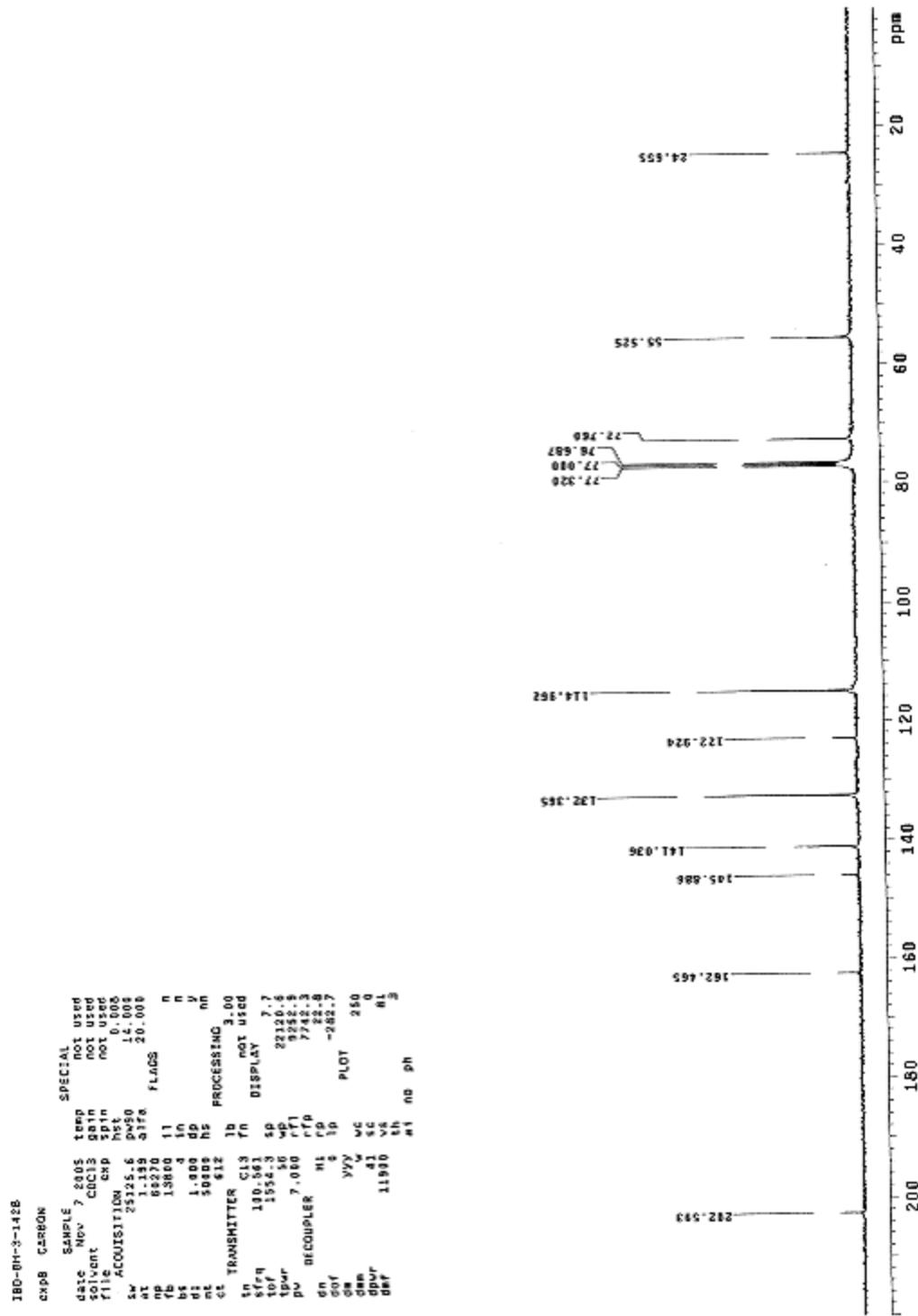
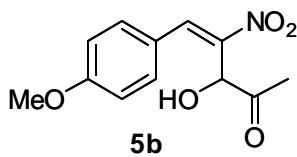
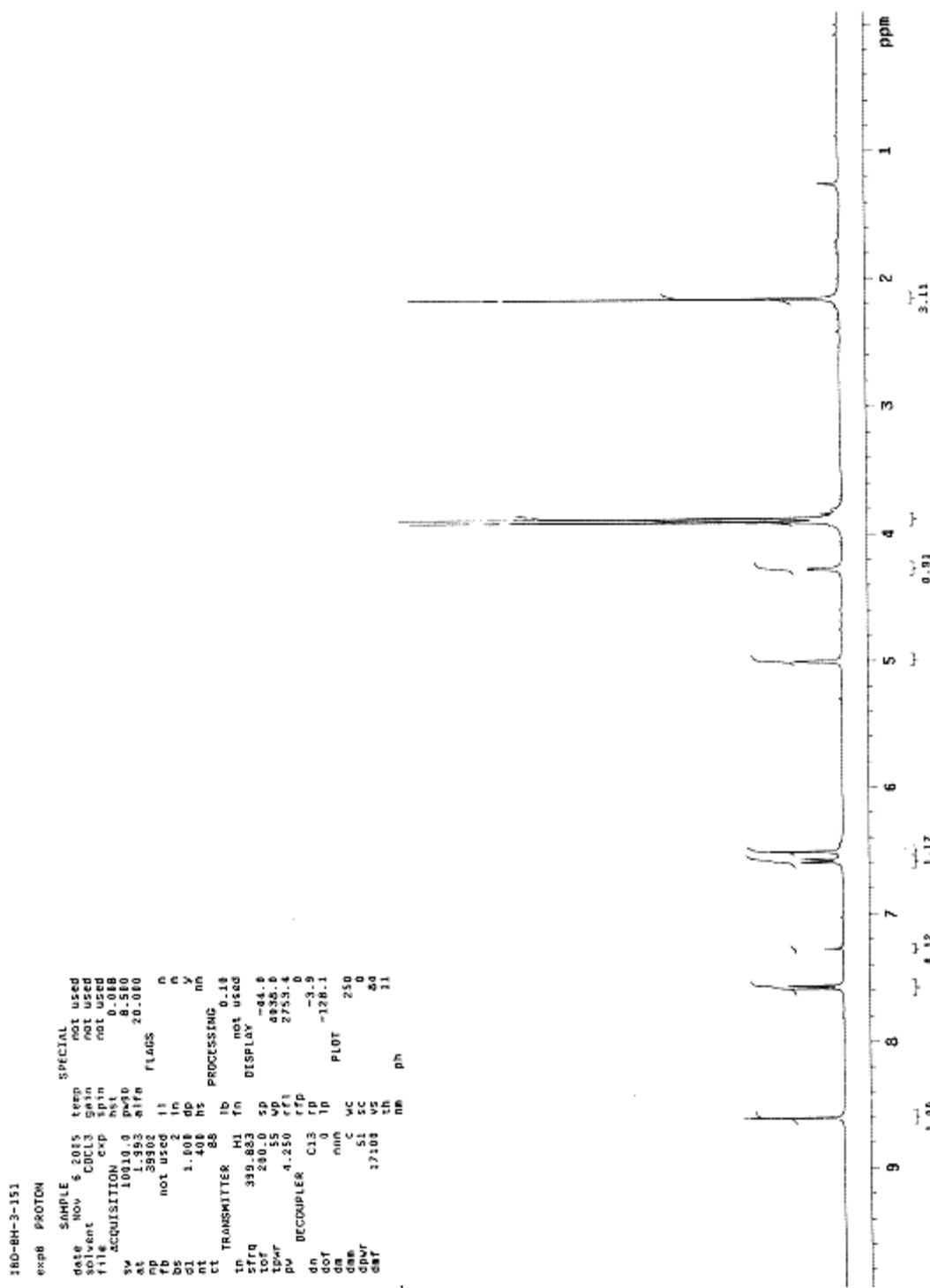
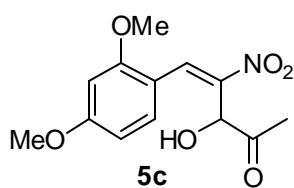


Figure S41. <sup>13</sup>C NMR Spectrum of **5b**



**Figure S42.** <sup>1</sup>H NMR Spectrum of 5c

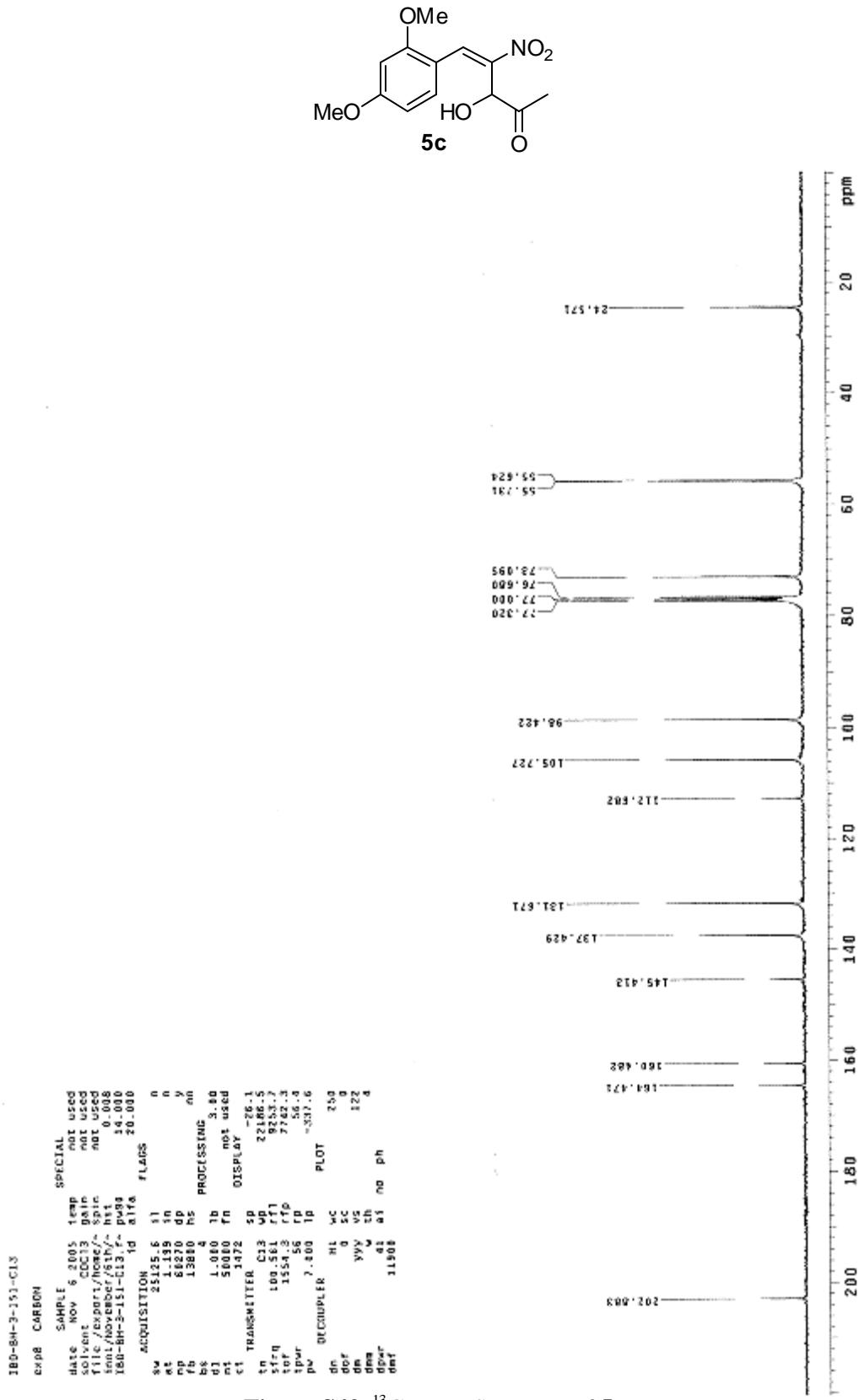
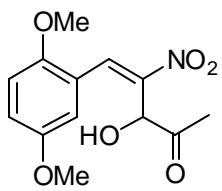
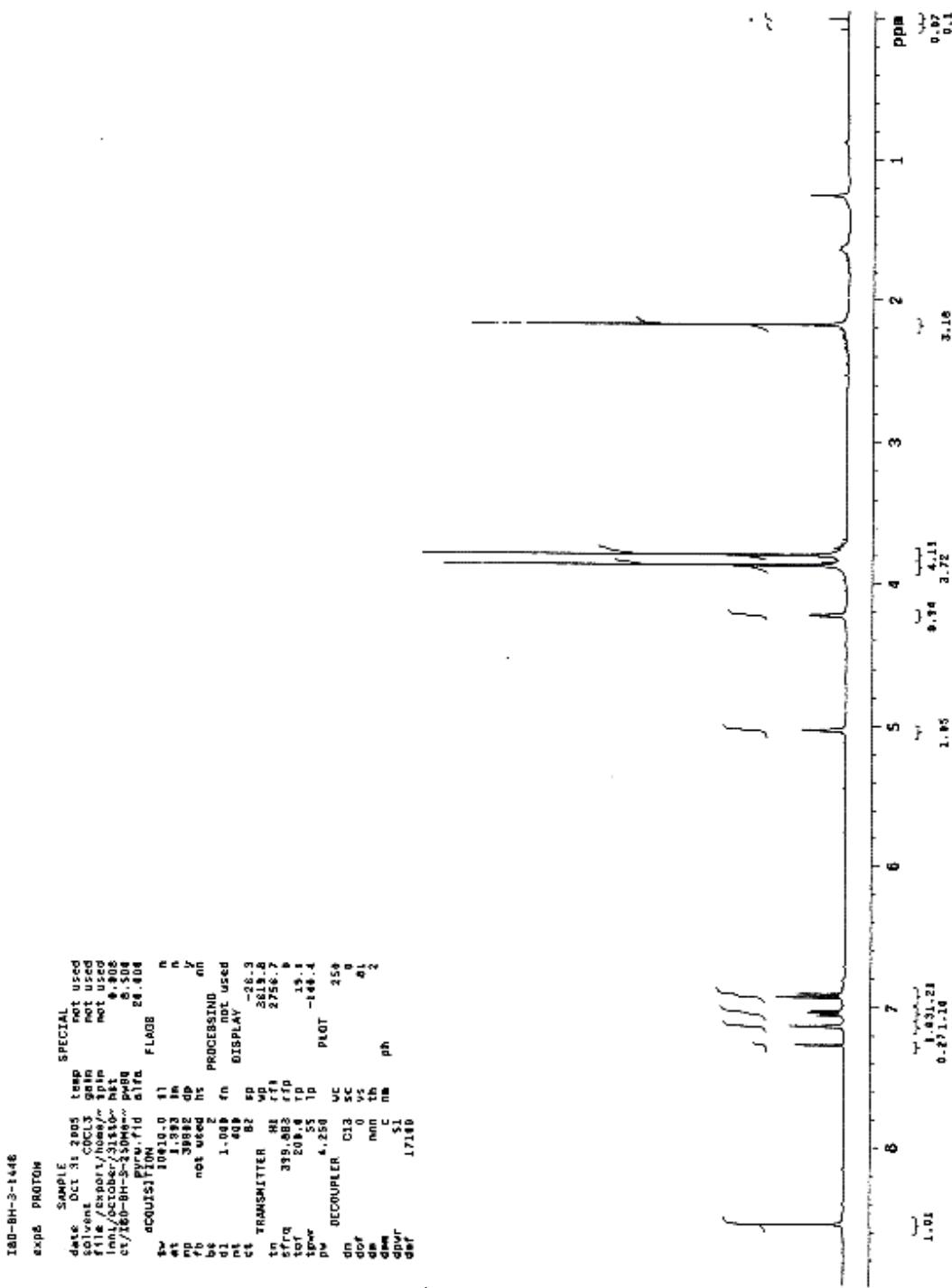


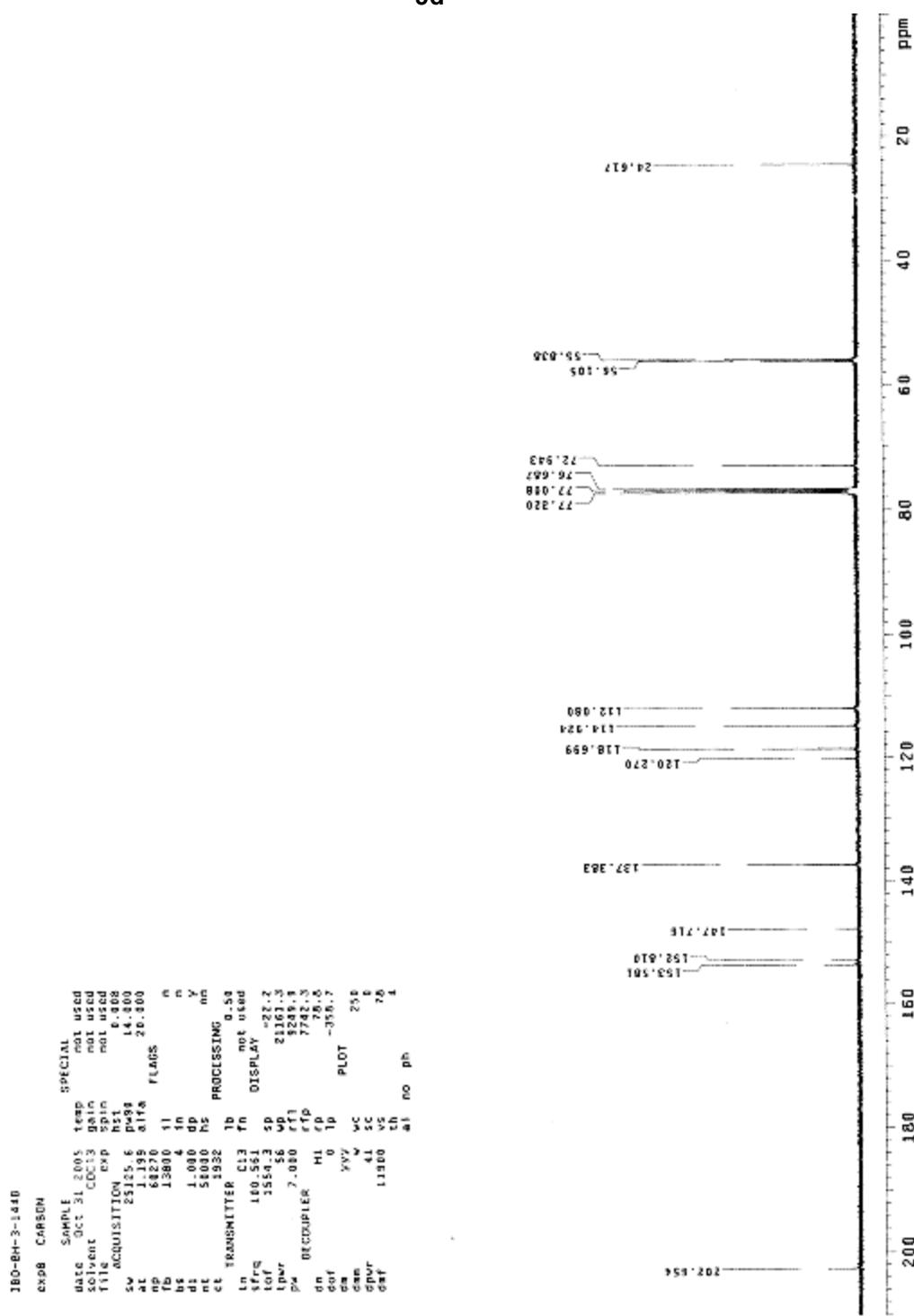
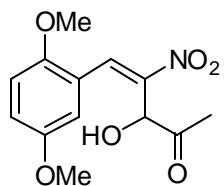
Figure S43. <sup>13</sup>C NMR Spectrum of 5c



**5d**



**Figure S44.**  $^1\text{H}$  NMR Spectrum of **5d**



**Figure S45.**  $^{13}\text{C}$  NMR Spectrum of **5d**

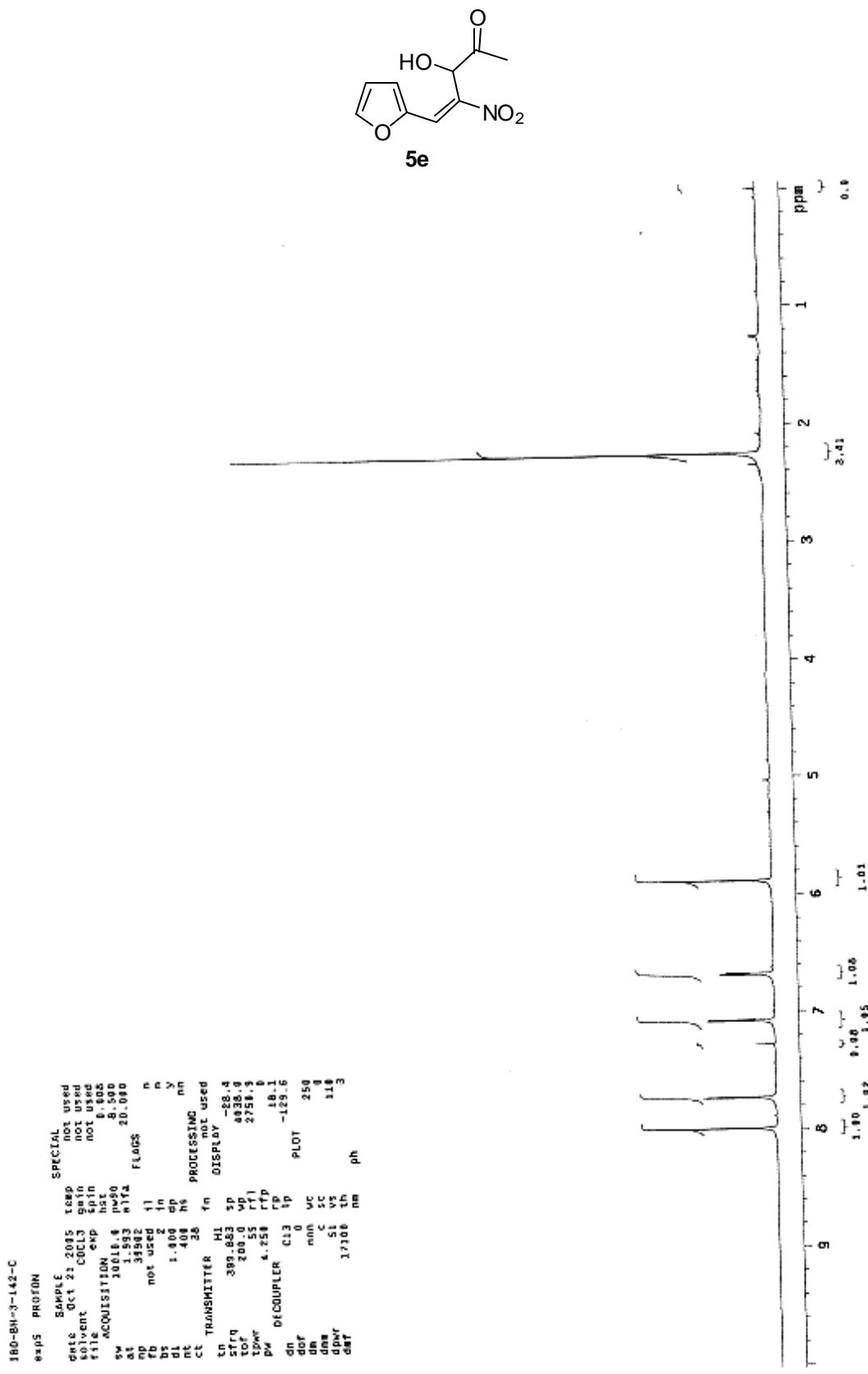


Figure S46. <sup>1</sup>H NMR Spectrum of 5e

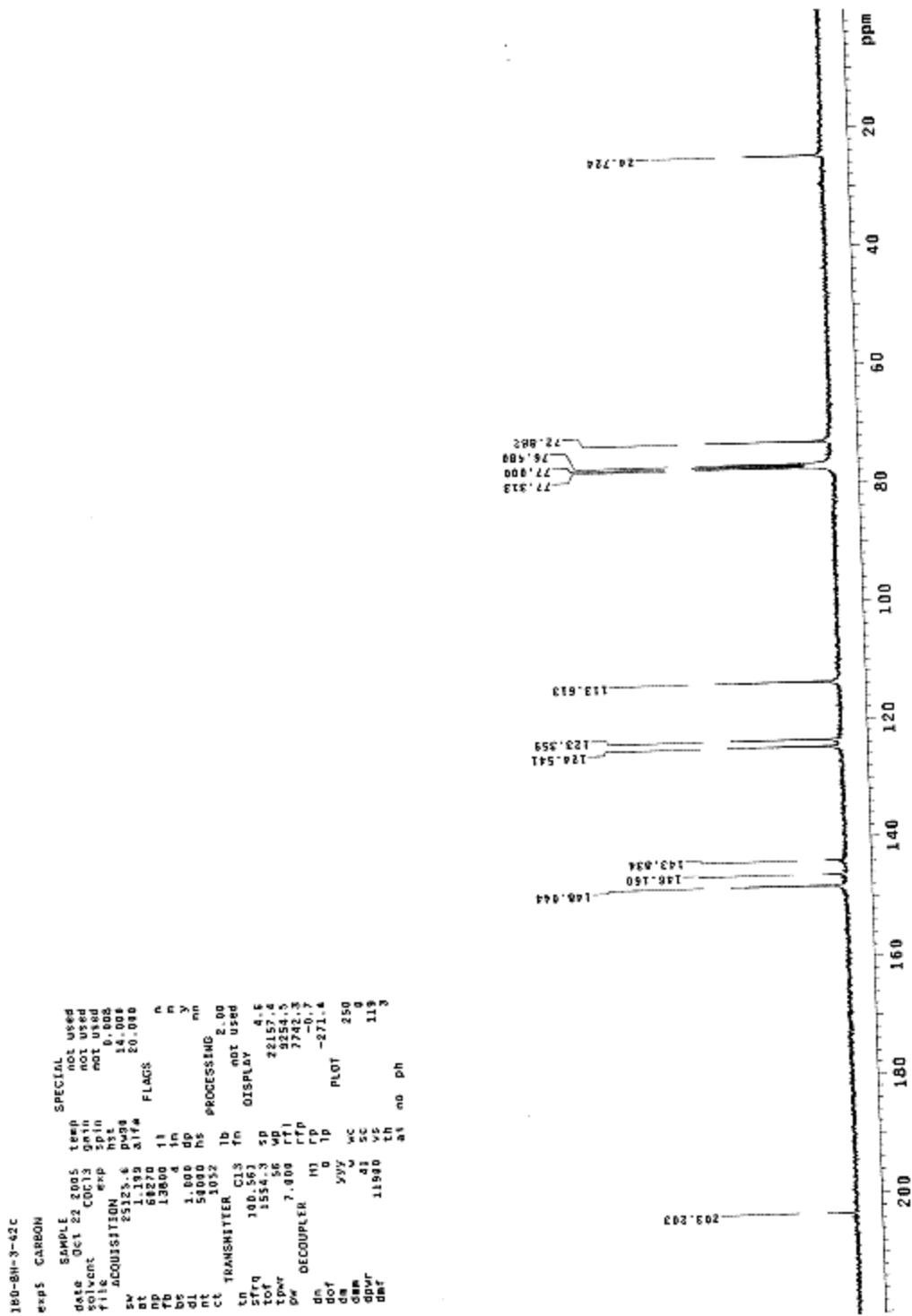
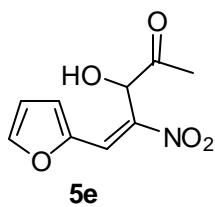
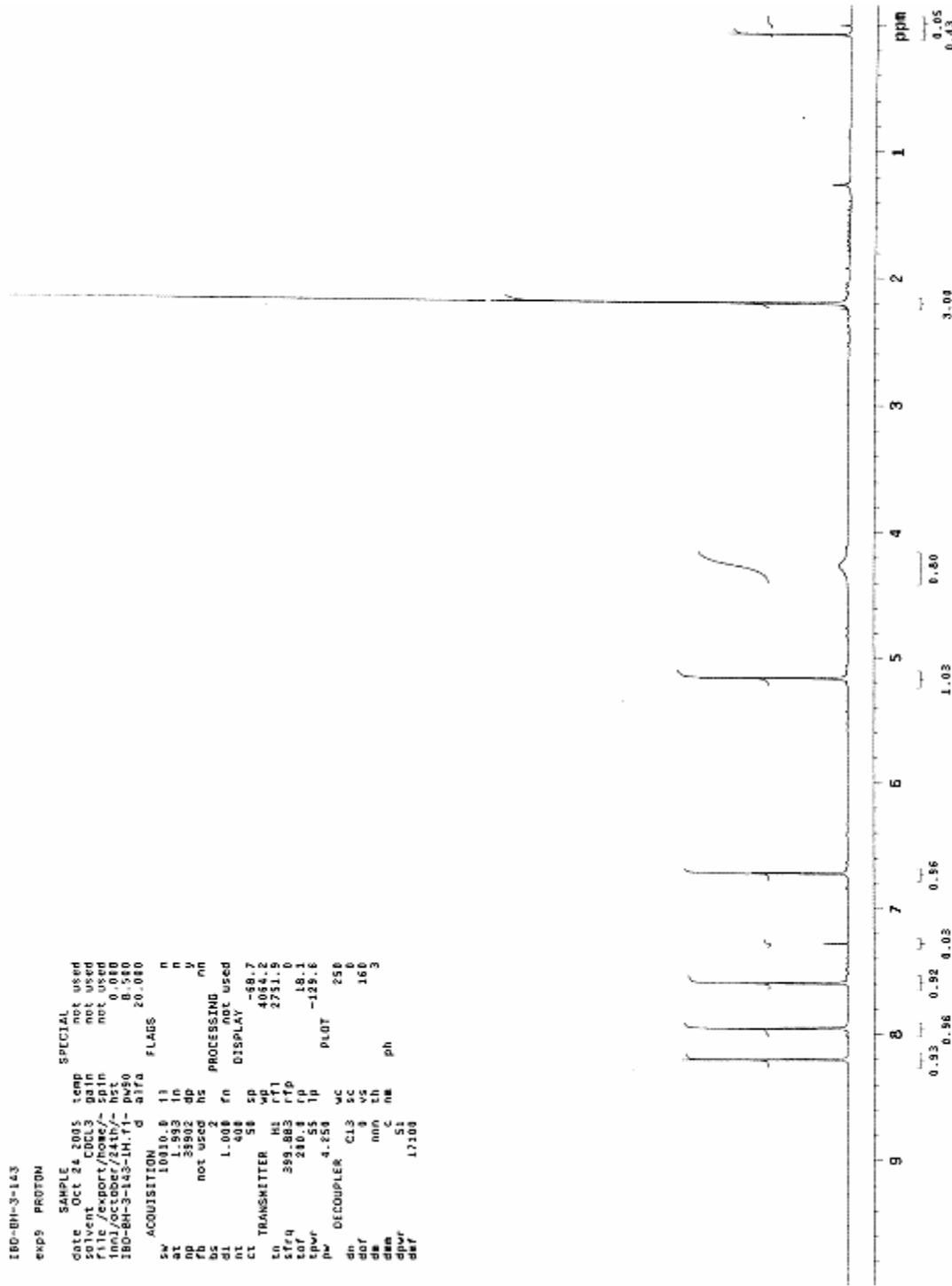
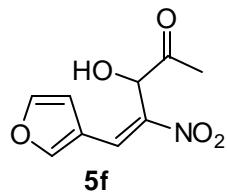
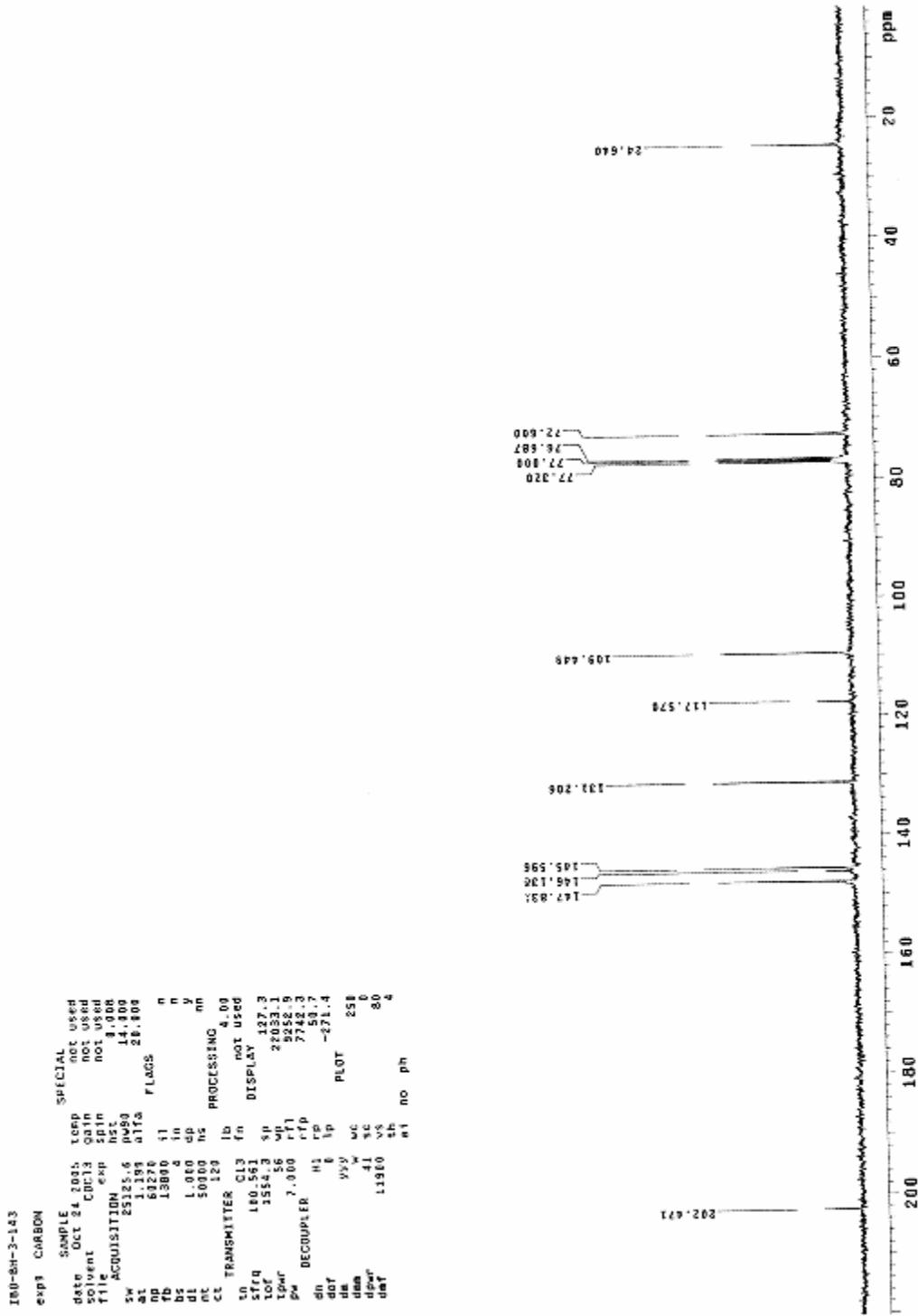
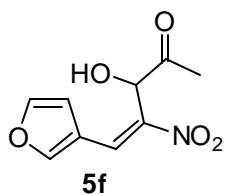


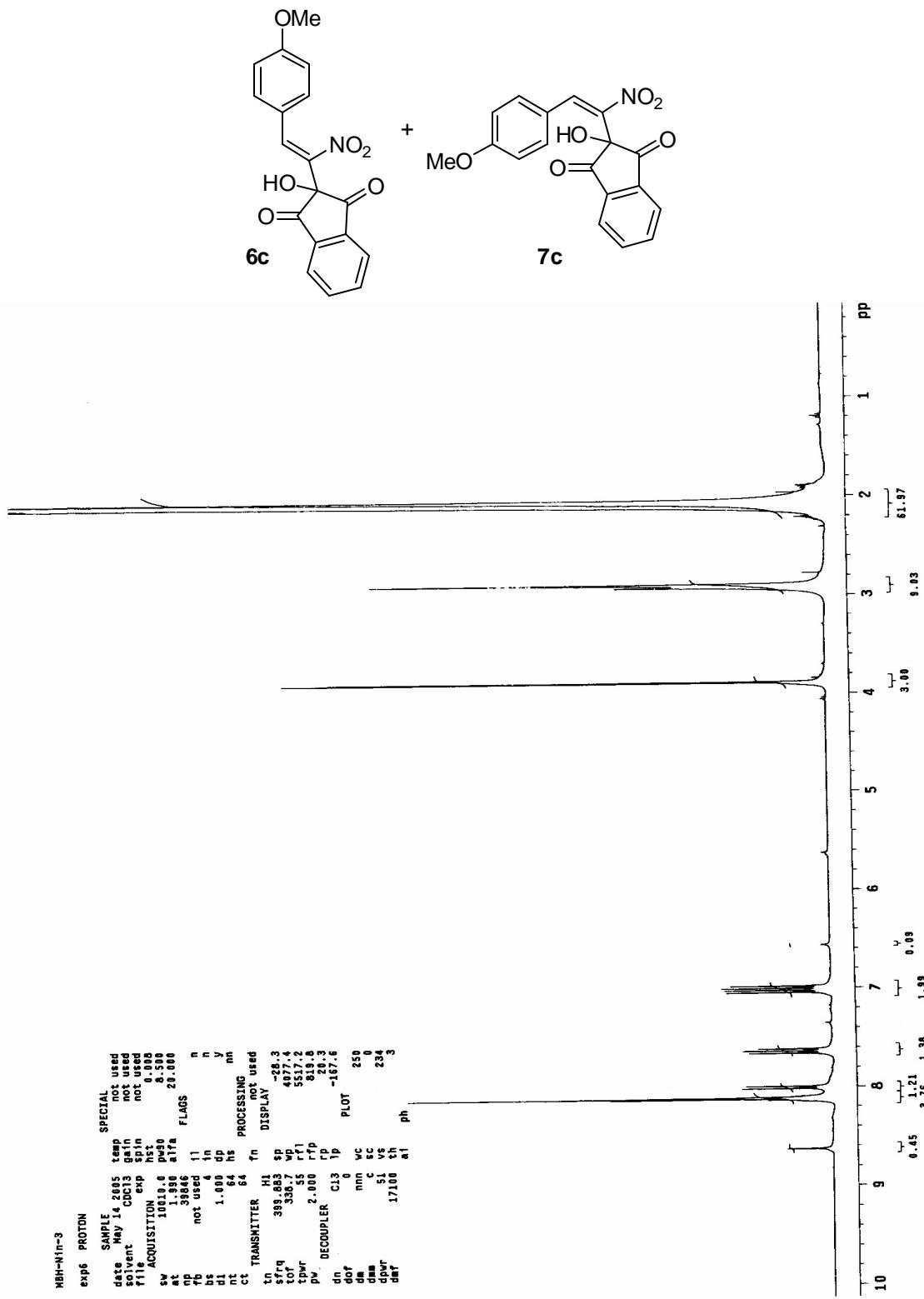
Figure S47. <sup>13</sup>C NMR Spectrum of **5e**



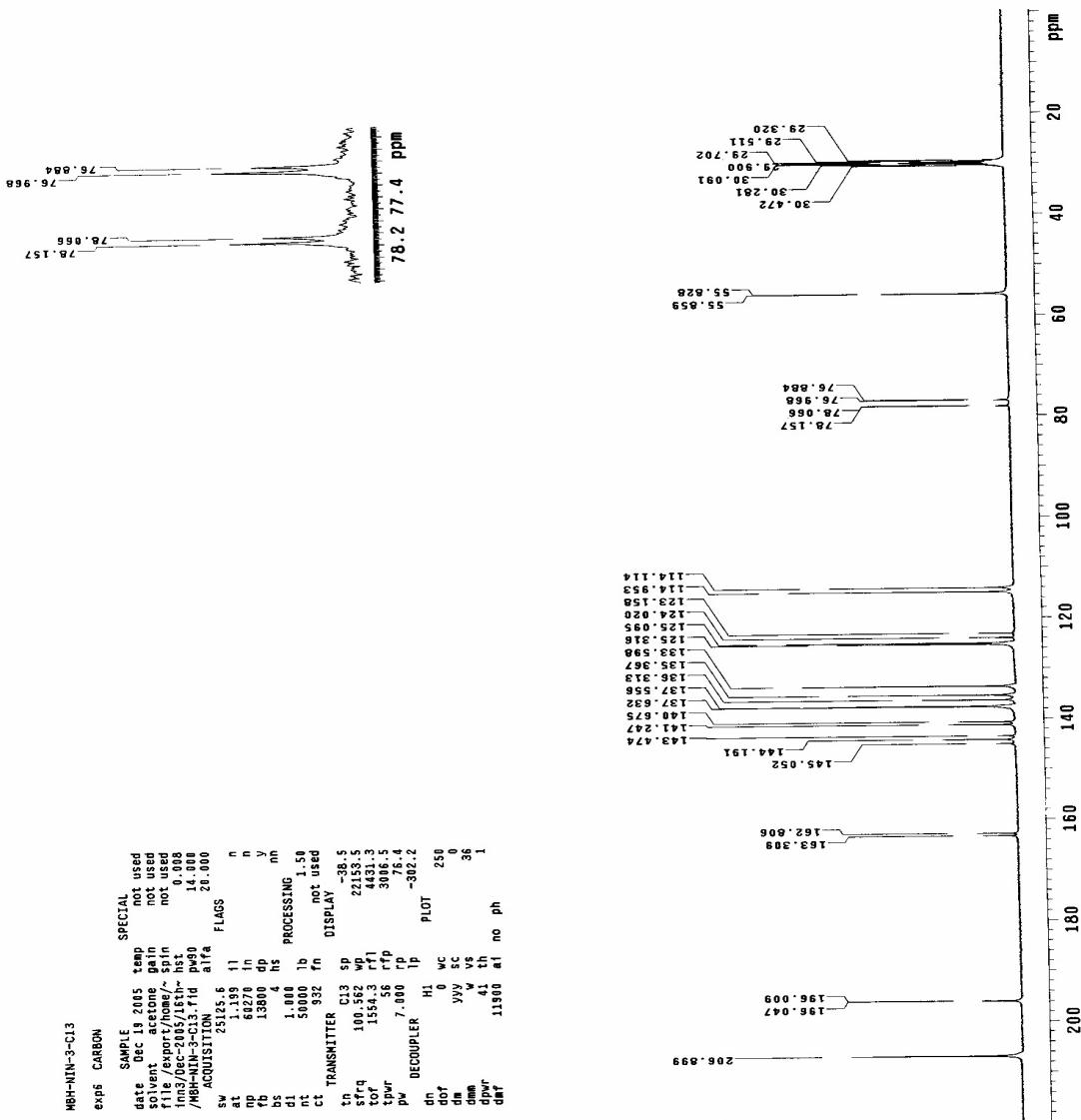
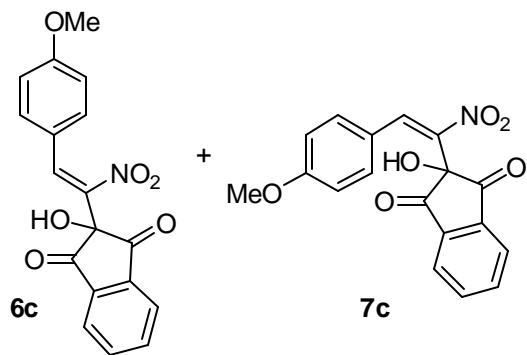
**Figure S48.** <sup>1</sup>H NMR Spectrum of **5f**



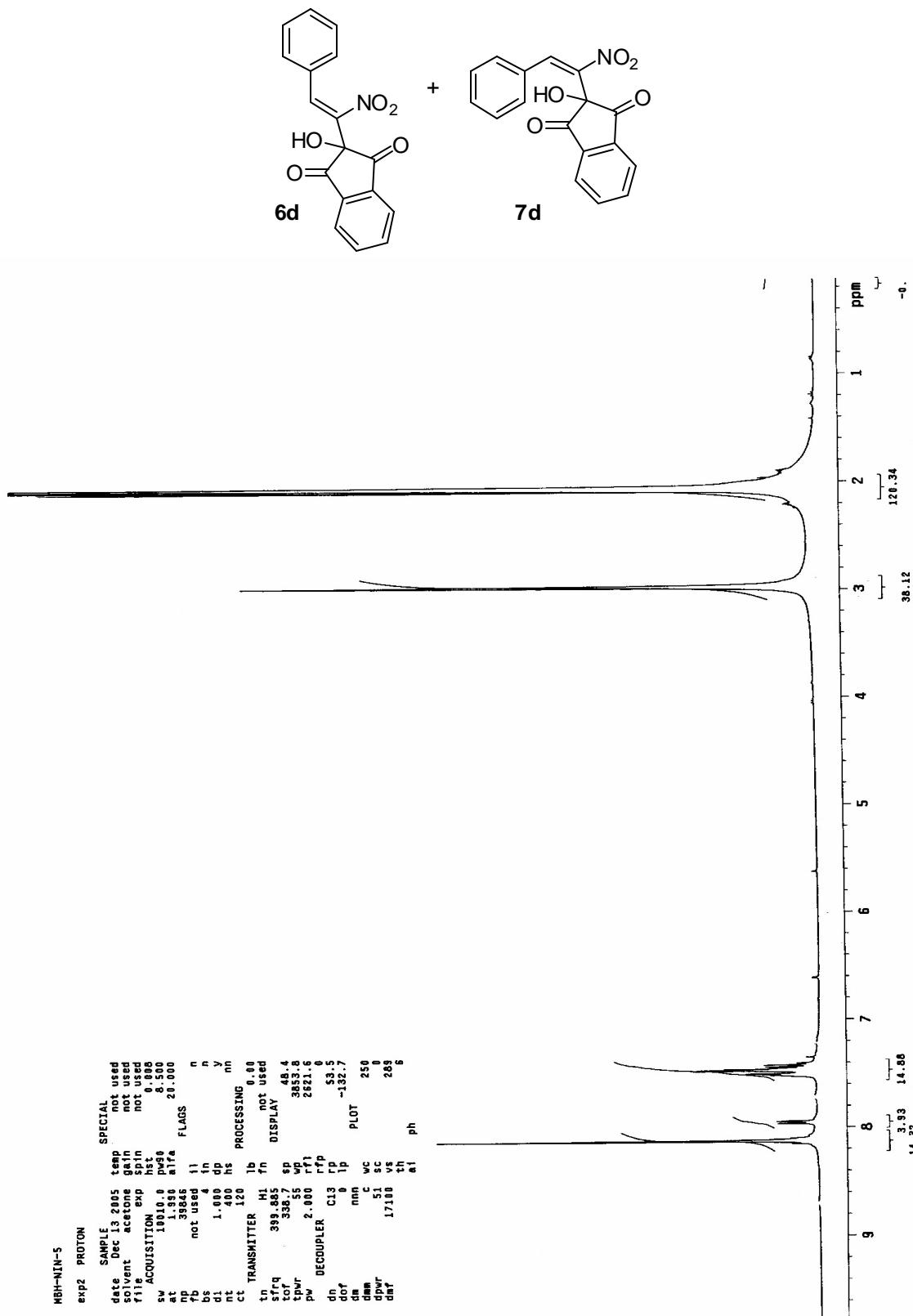
**Figure S49.**  $^{13}\text{C}$  NMR Spectrum of **5f**

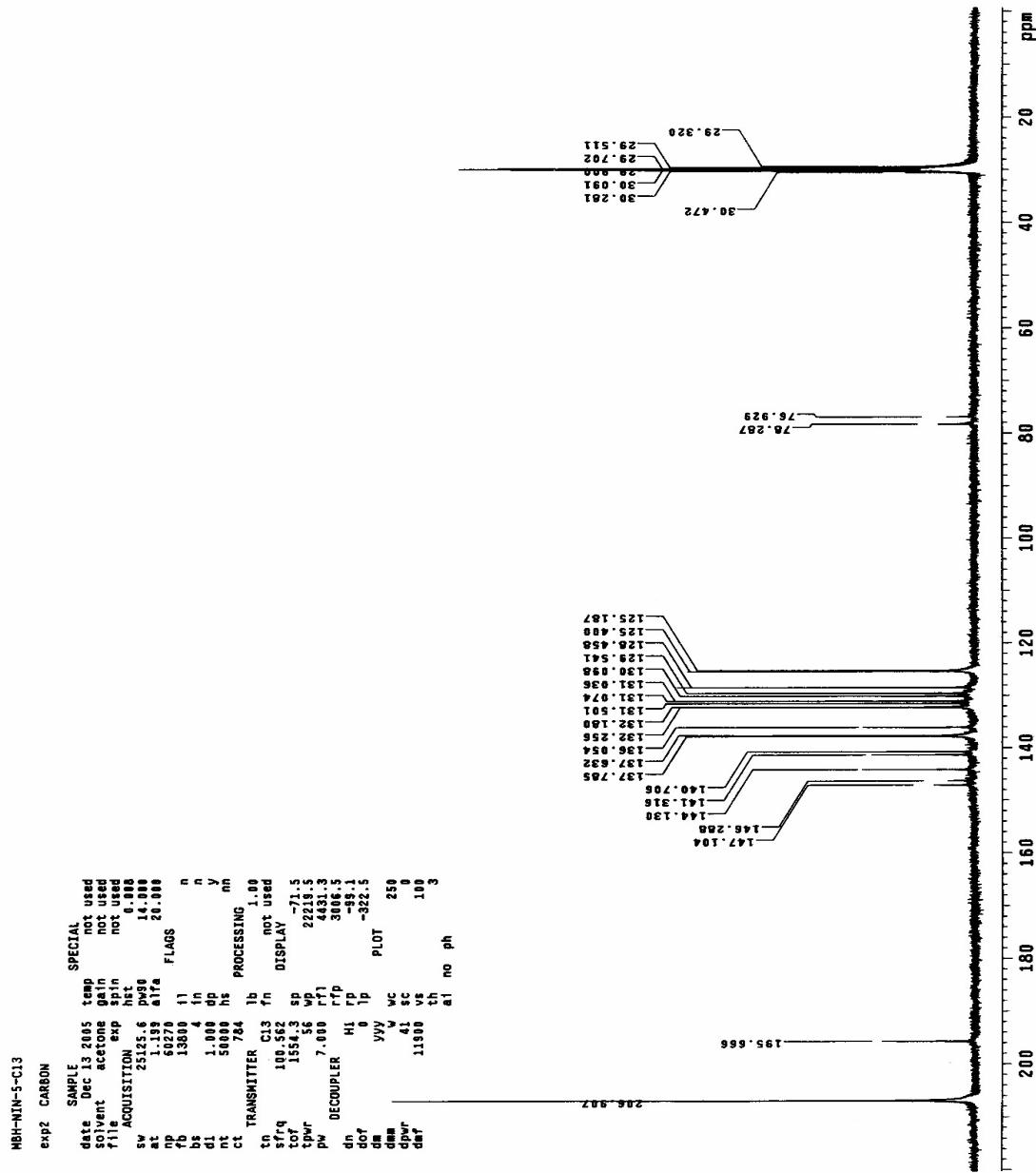
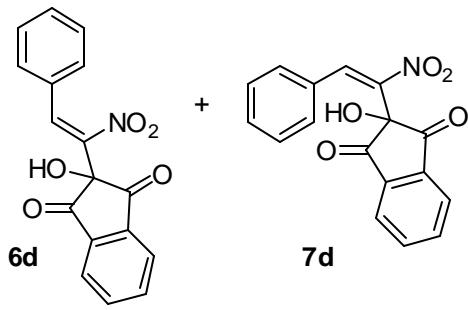


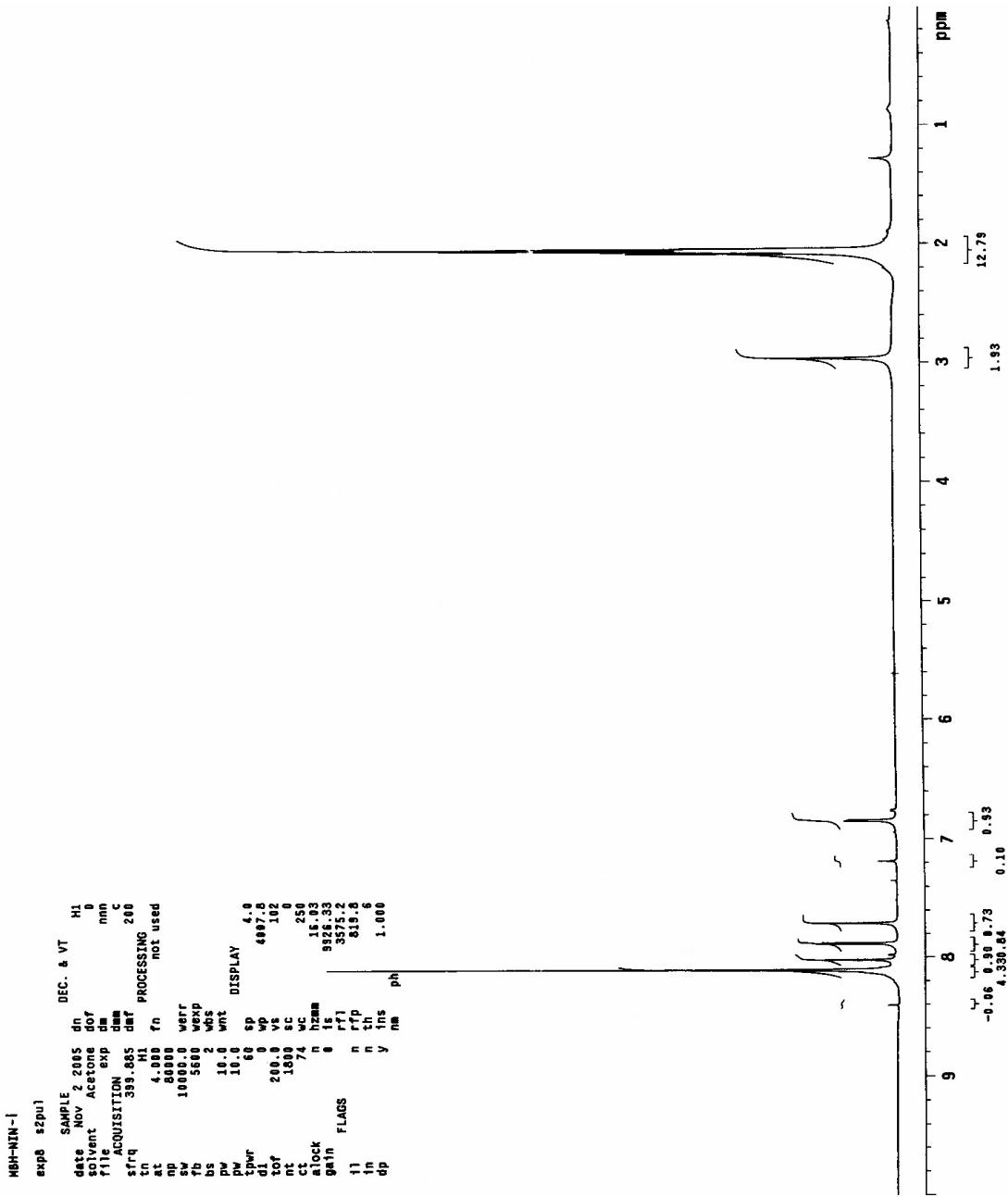
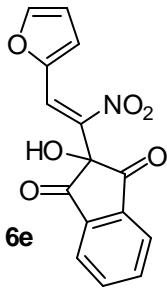
**Figure S50.**  $^1\text{H}$  NMR Spectrum of **6c** + **7c**



**Figure S51.**  $^{13}\text{C}$  NMR Spectrum of **6c + 7c**







**Figure S54.**  $^1\text{H}$  NMR Spectrum of **6e**

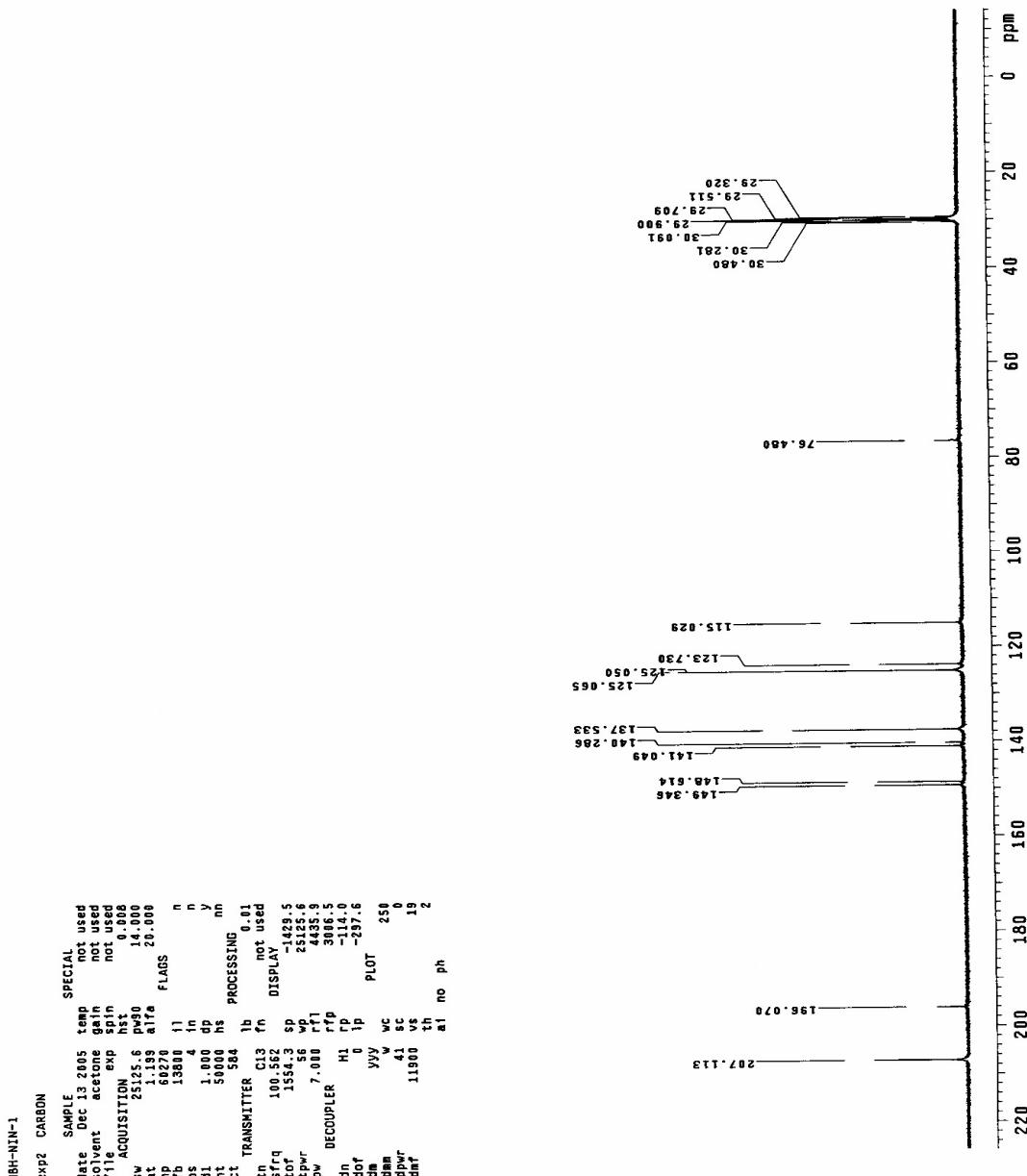
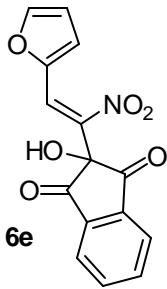


Figure S55.  $^{13}\text{C}$  NMR Spectrum of **6e**

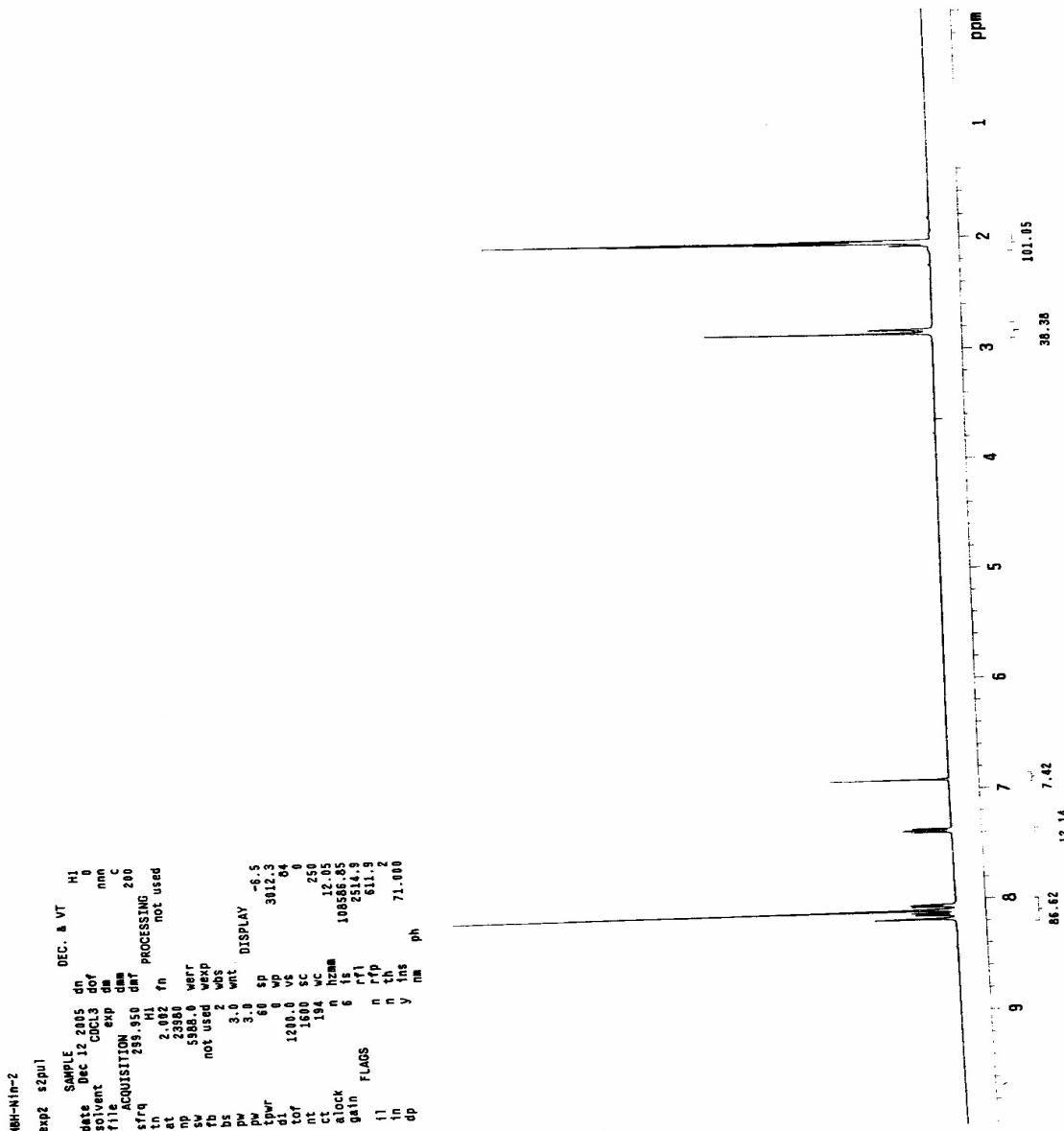
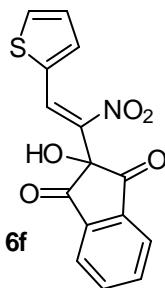
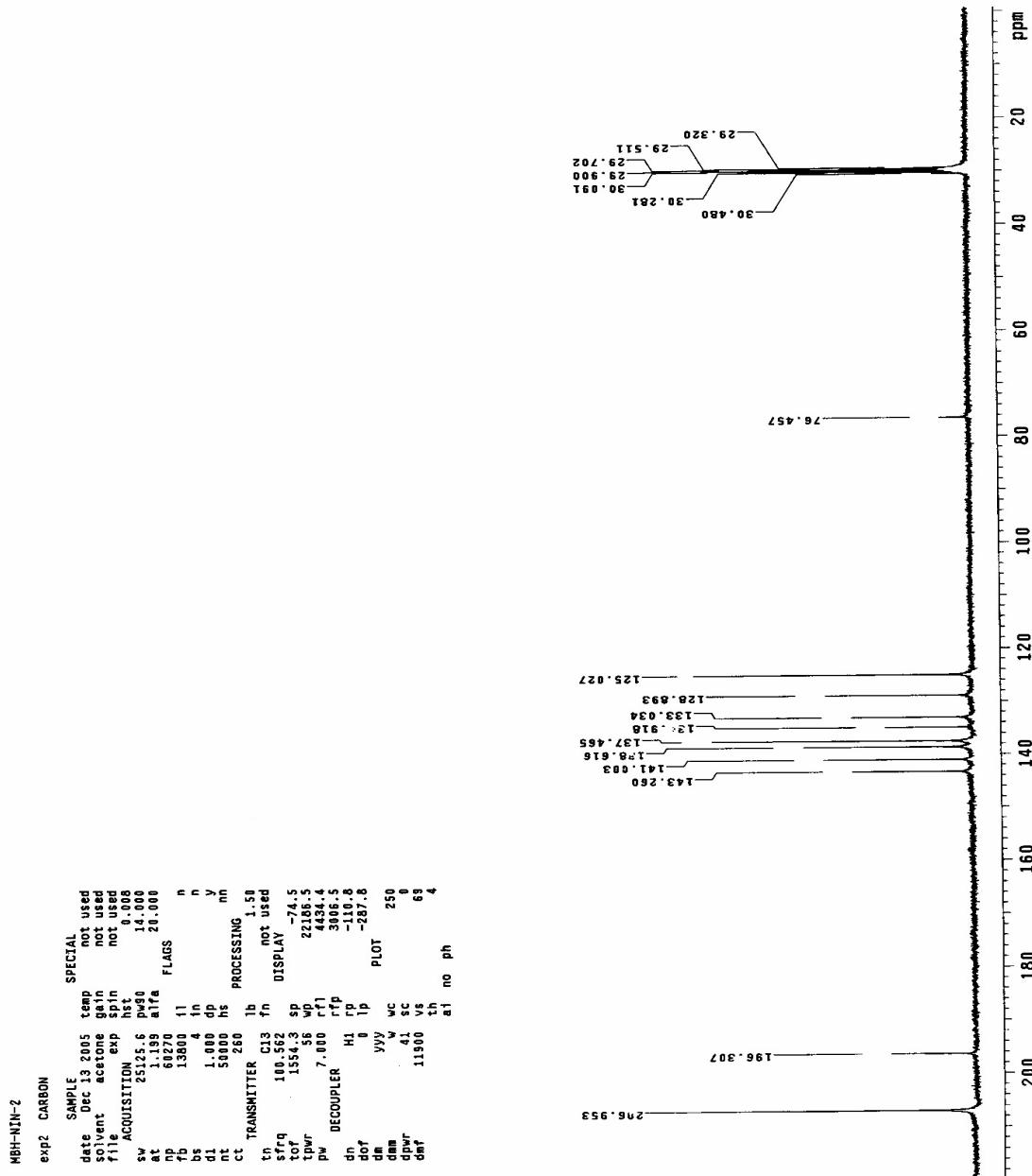
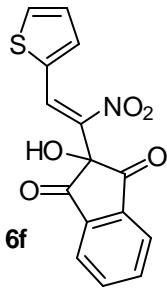
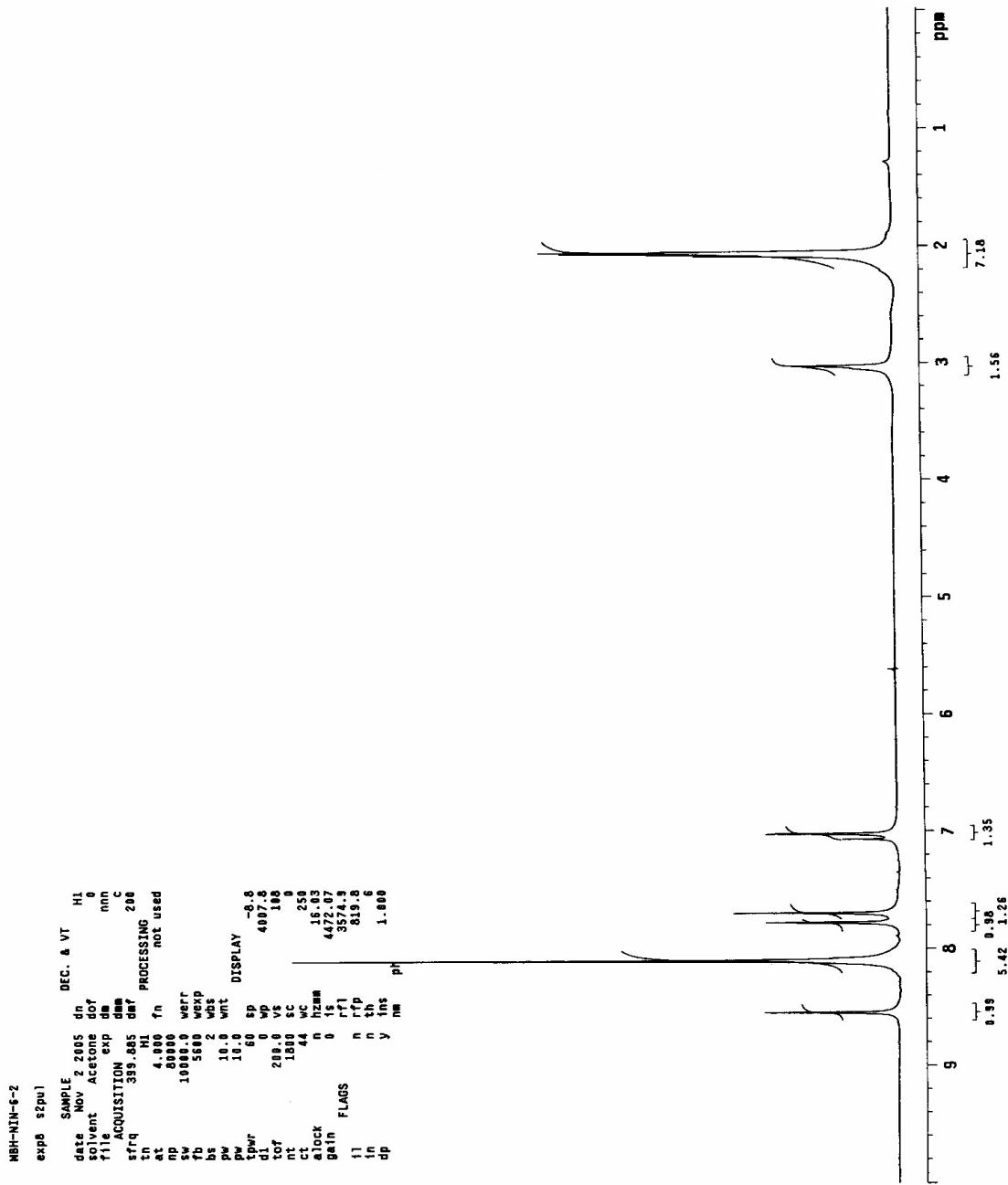
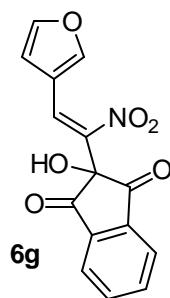


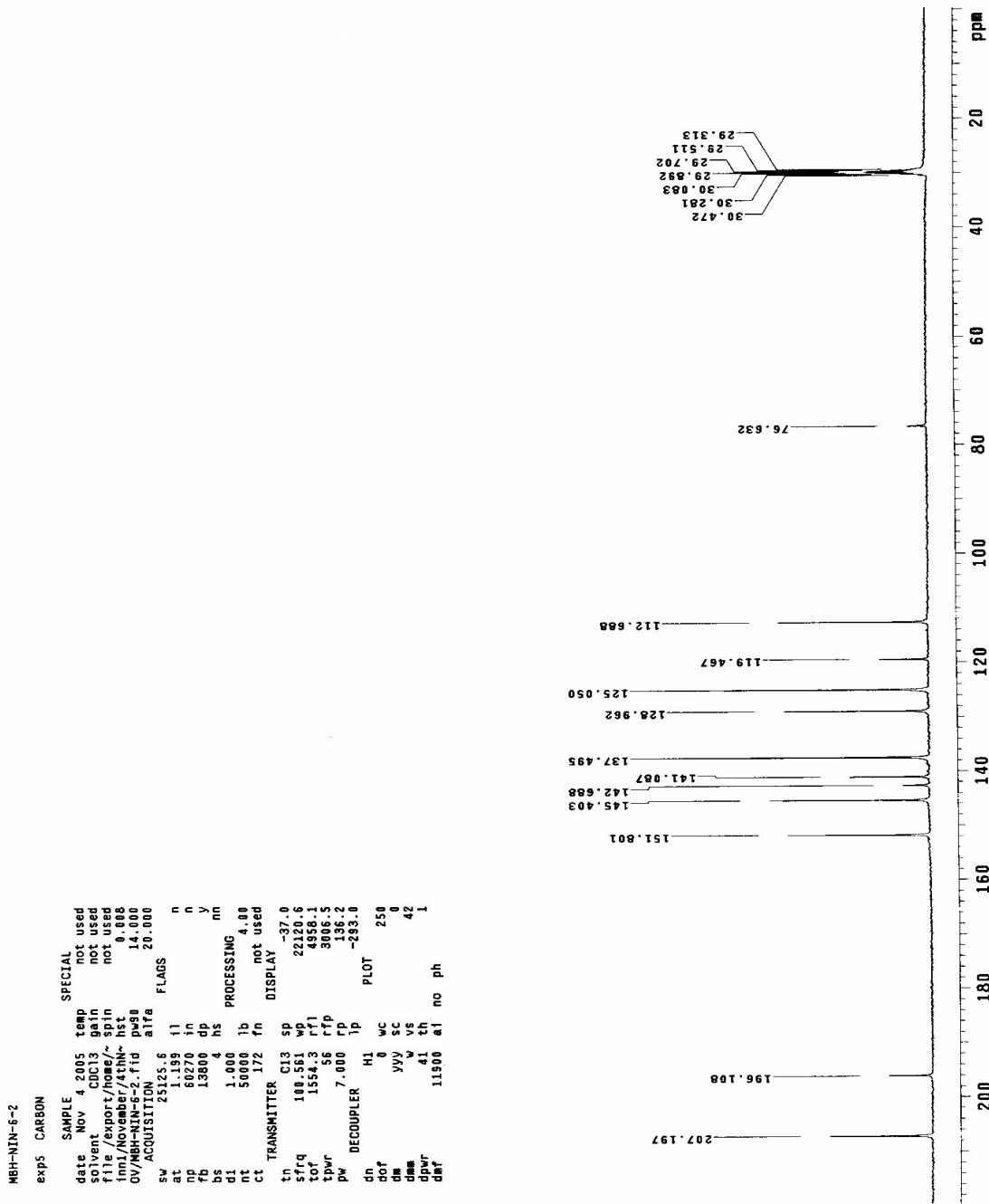
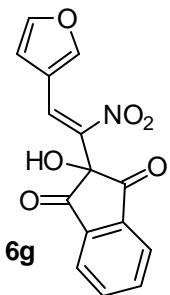
Figure S56. <sup>1</sup>H NMR Spectrum of 6f



**Figure S57.**  $^{13}\text{C}$  NMR Spectrum of **6f**



**Figure S58.**  $^1\text{H}$  NMR Spectrum of **6g**



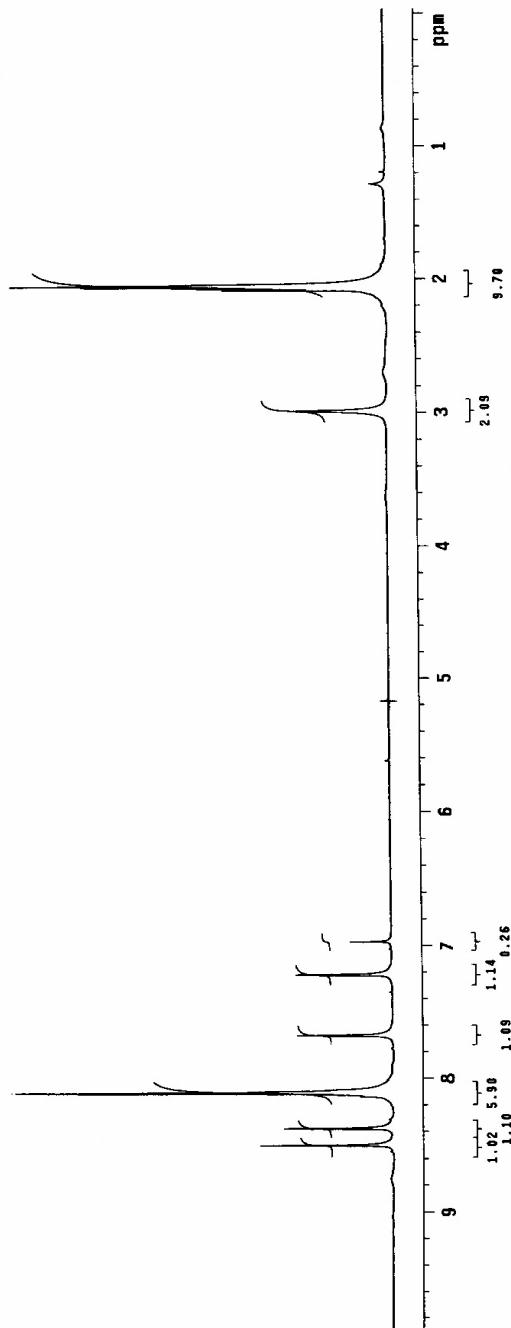
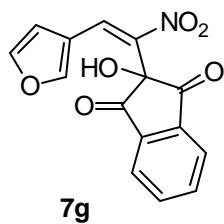
**Figure S59.** <sup>13</sup>C NMR Spectrum of **6g**

HBN-NIN-F-1

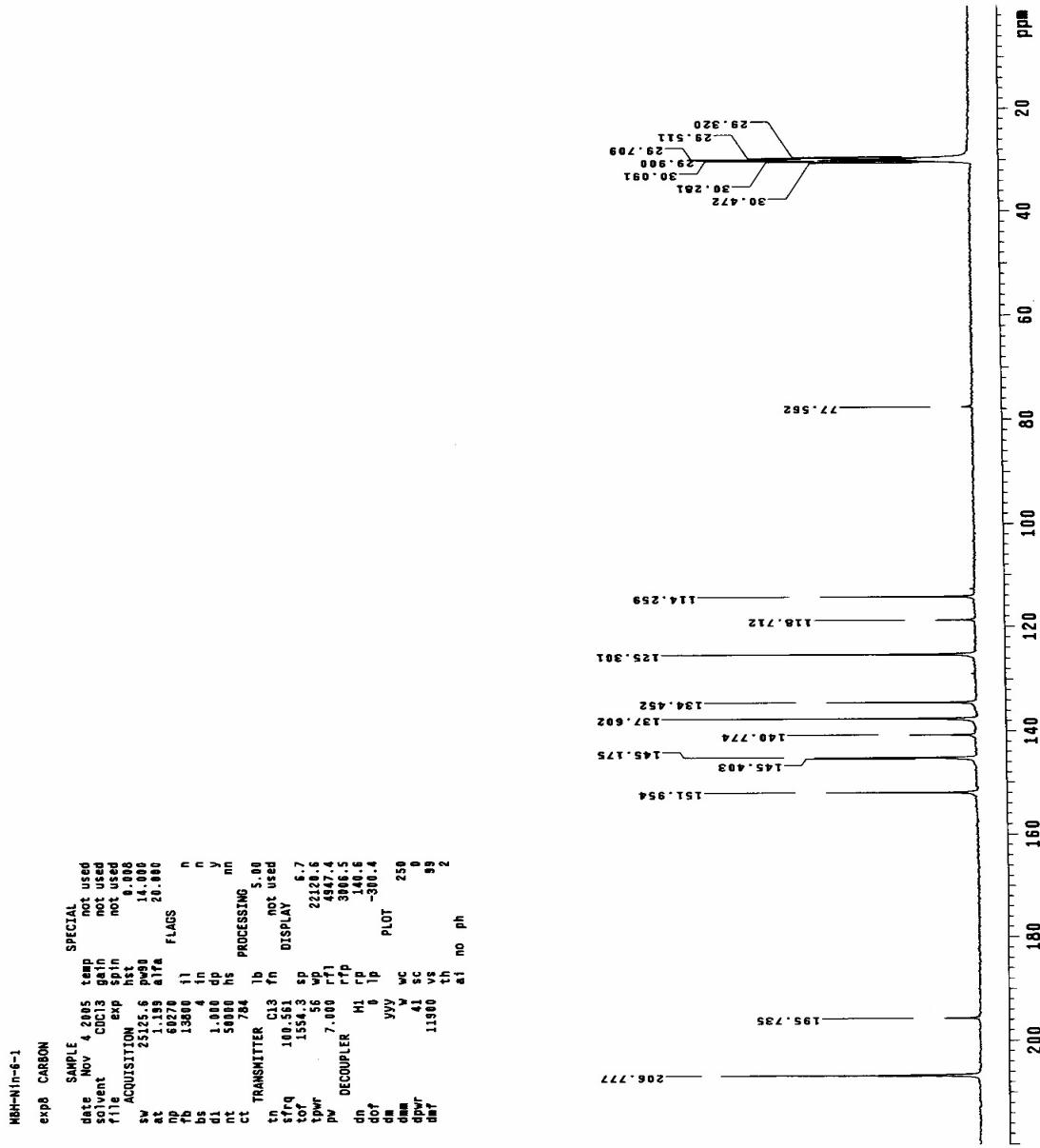
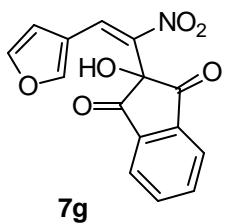
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          nw   1000.0 werr
          fb   5610  werr
          bs   2       werr
          pw   10.0  wint
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          in   n     th   6
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**Figure S60.**  $^1\text{H}$  NMR Spectrum of **7g**



**Figure S61.**  $^{13}\text{C}$  NMR Spectrum of **7g**