

## Supporting Information

### Inhibition of Cytotoxic Self-assembly of HEWL Through Promoting Fibrillation by New Synthesized $\alpha$ -Hydroxycarbamoylphosphinic Acids

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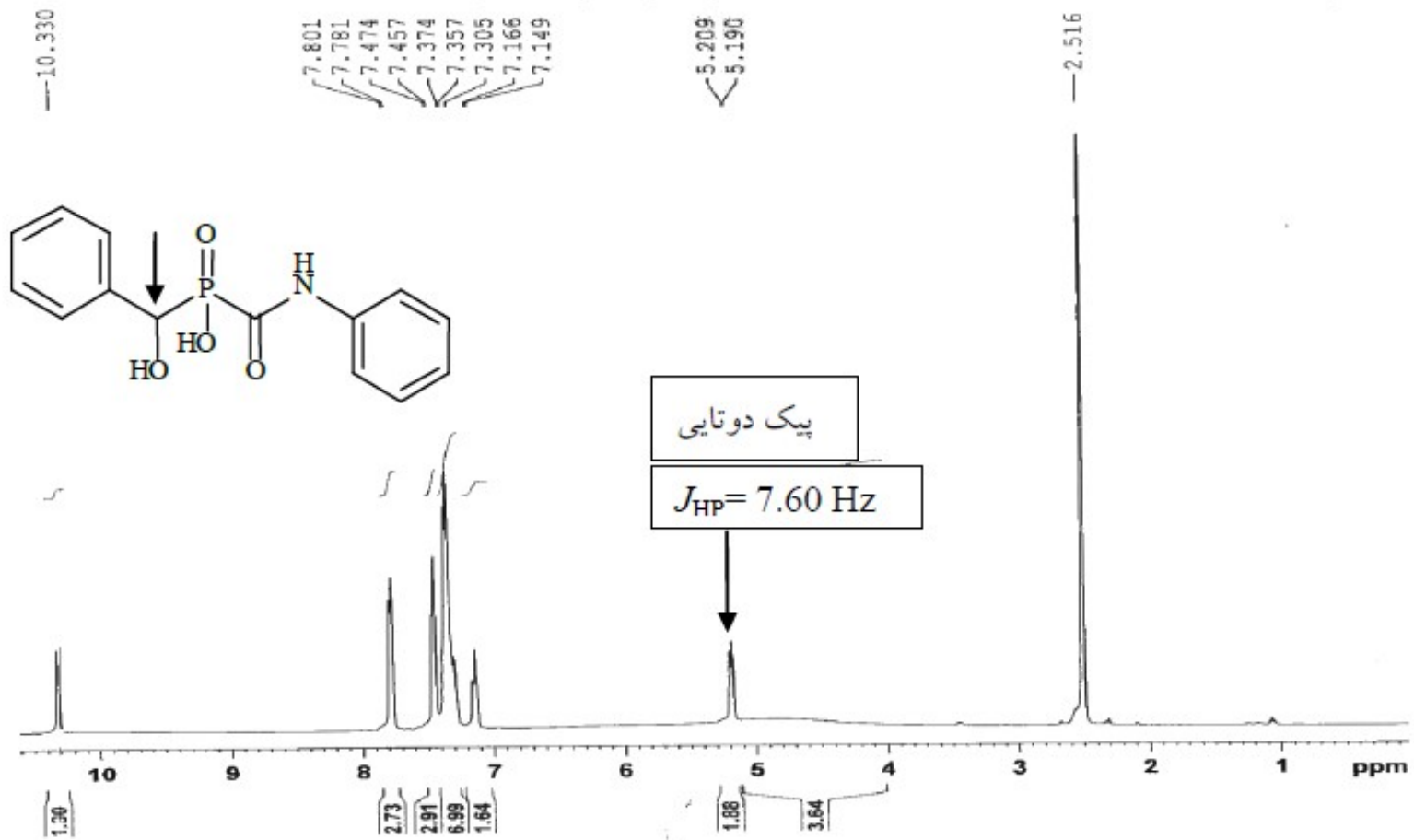


Figure S1:  $^1\text{H}$  NMR Spectra of 3a

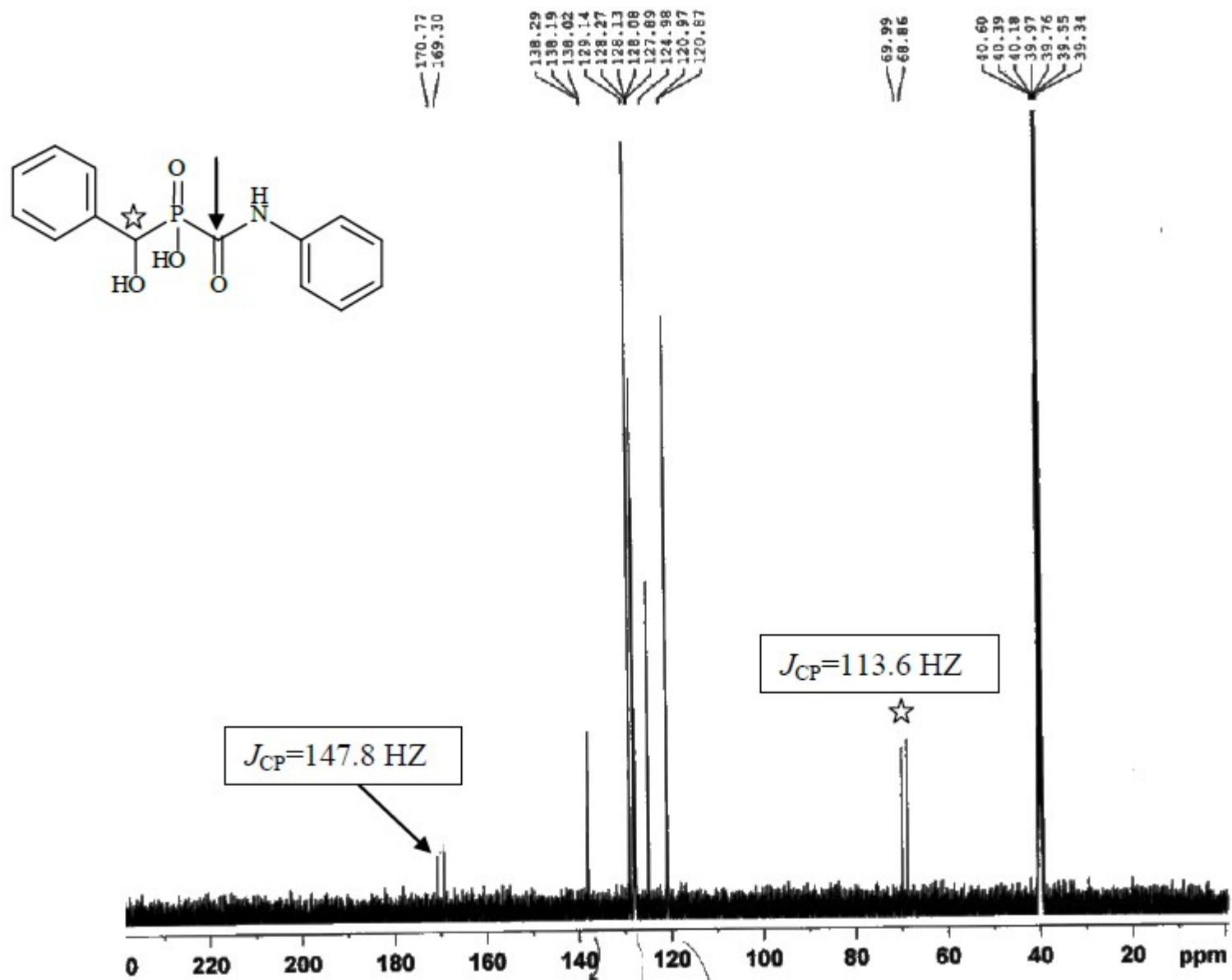


Figure S2:  $^{13}\text{C}$  NMR Spectra of 3a

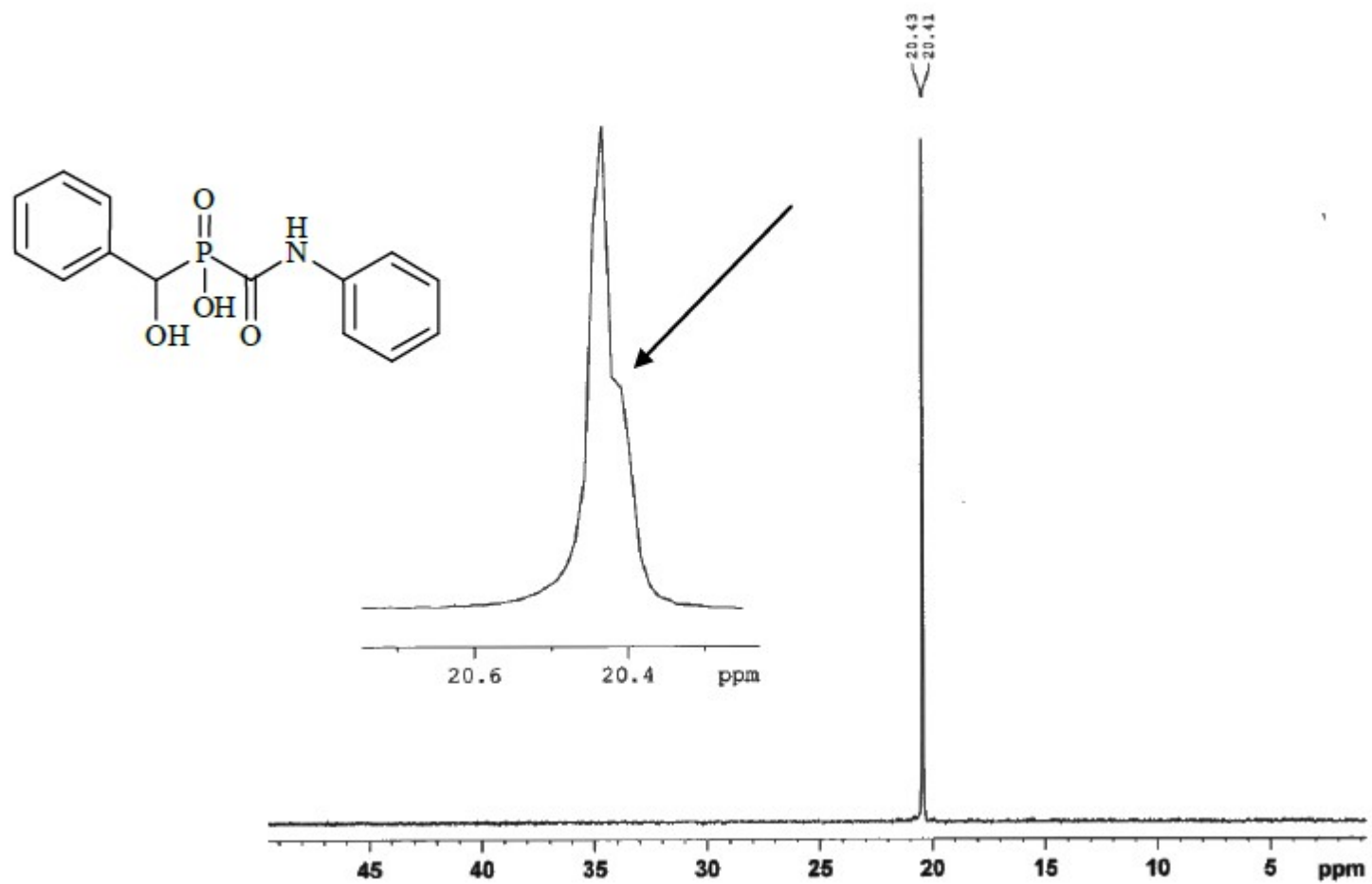


Figure S3:  $^{31}\text{P}$  NMR Spectra of 3a

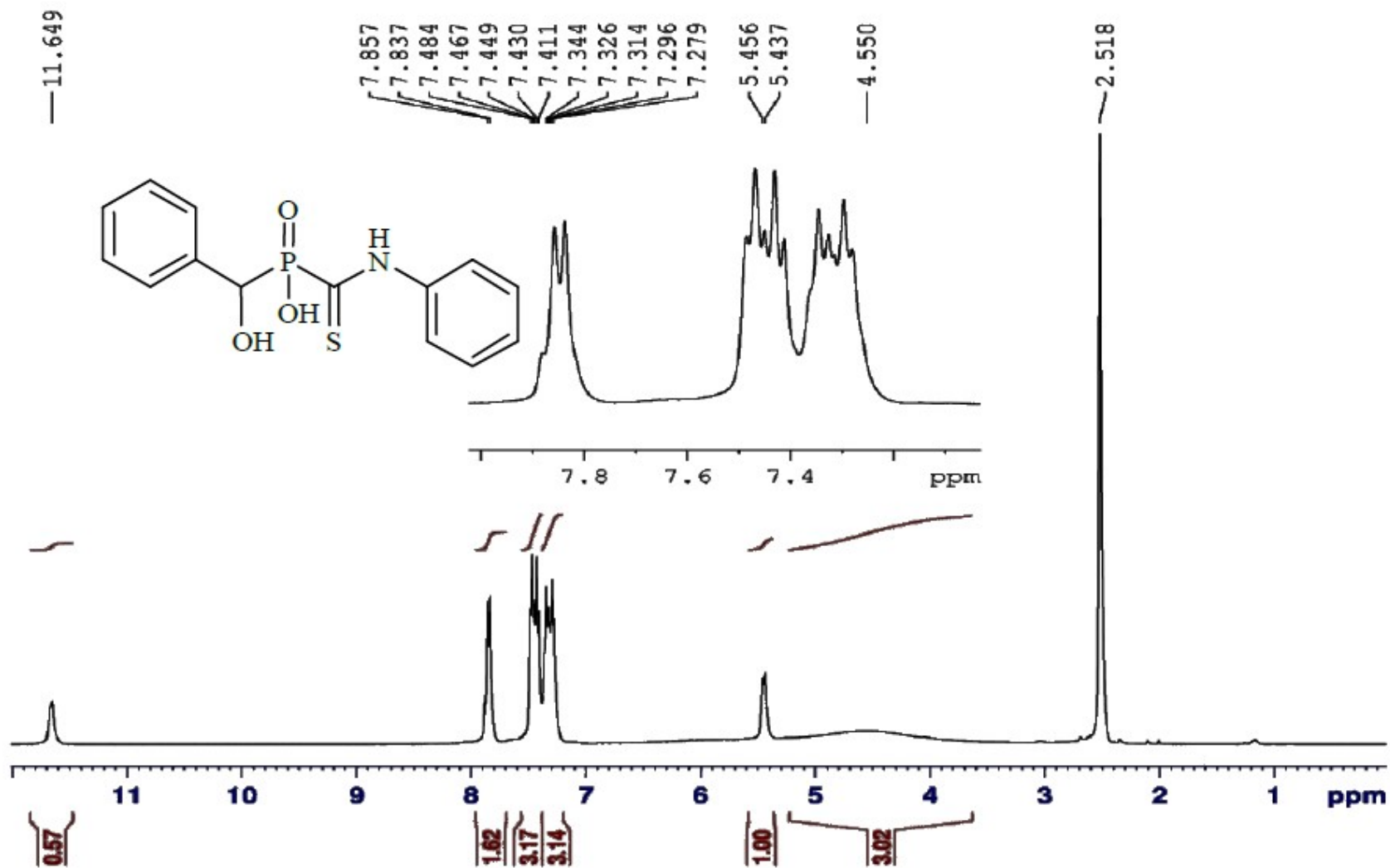


Figure S4: <sup>1</sup>H NMR Spectra of 3b



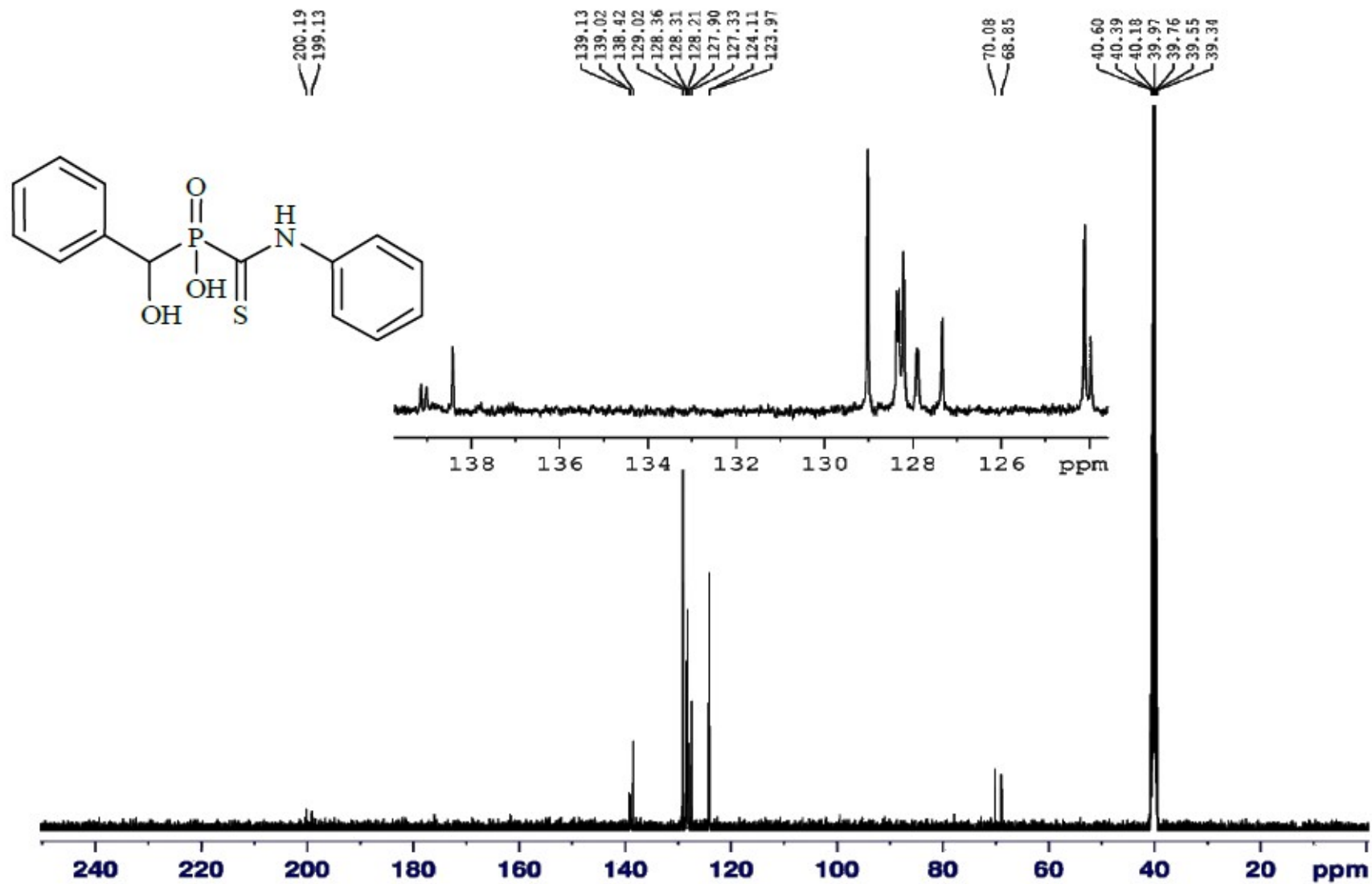


Figure S5: <sup>13</sup>C NMR Spectra of 3b

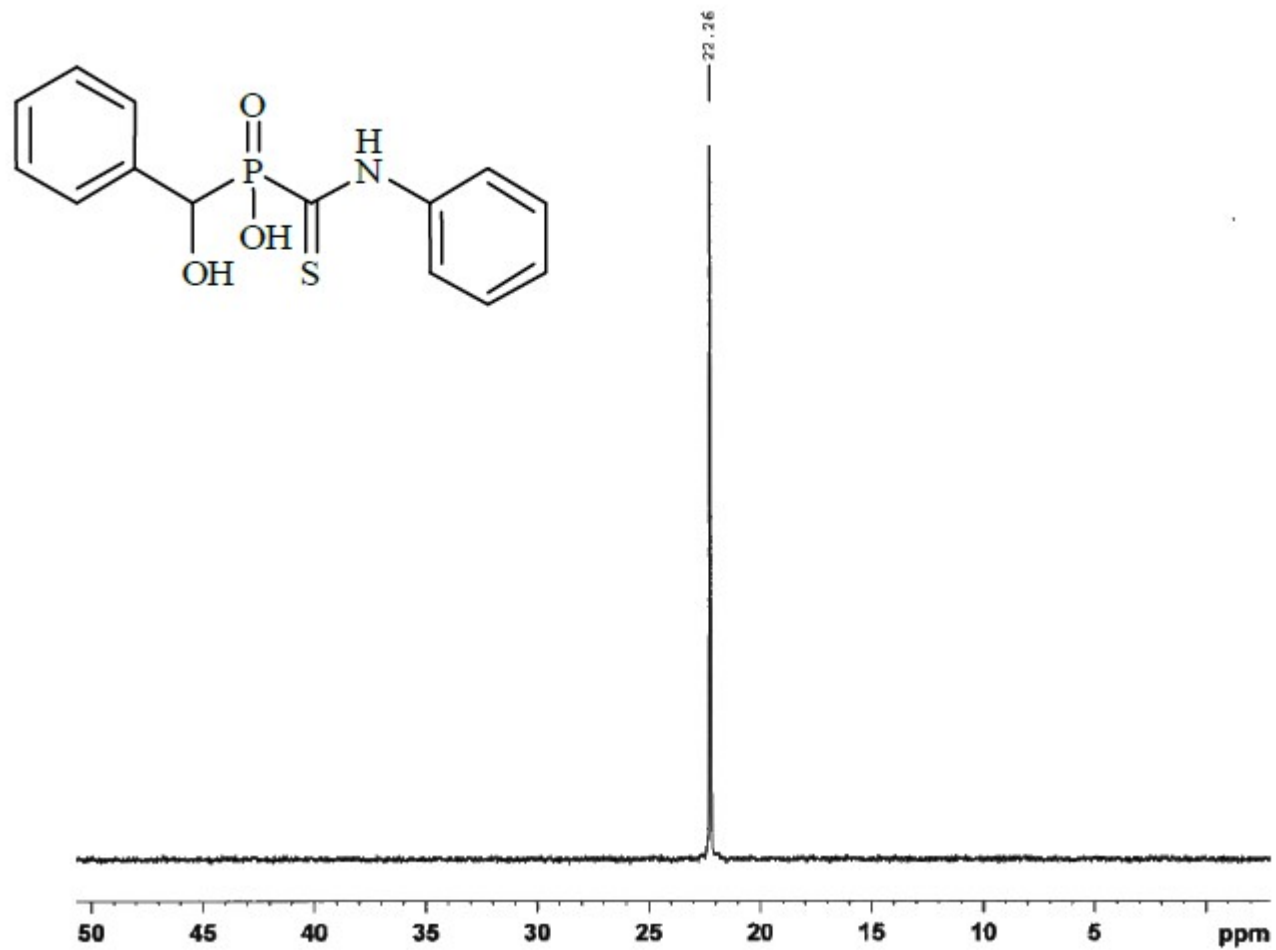


Figure S6:  $^{31}\text{P}$  NMR Spectra of 3b

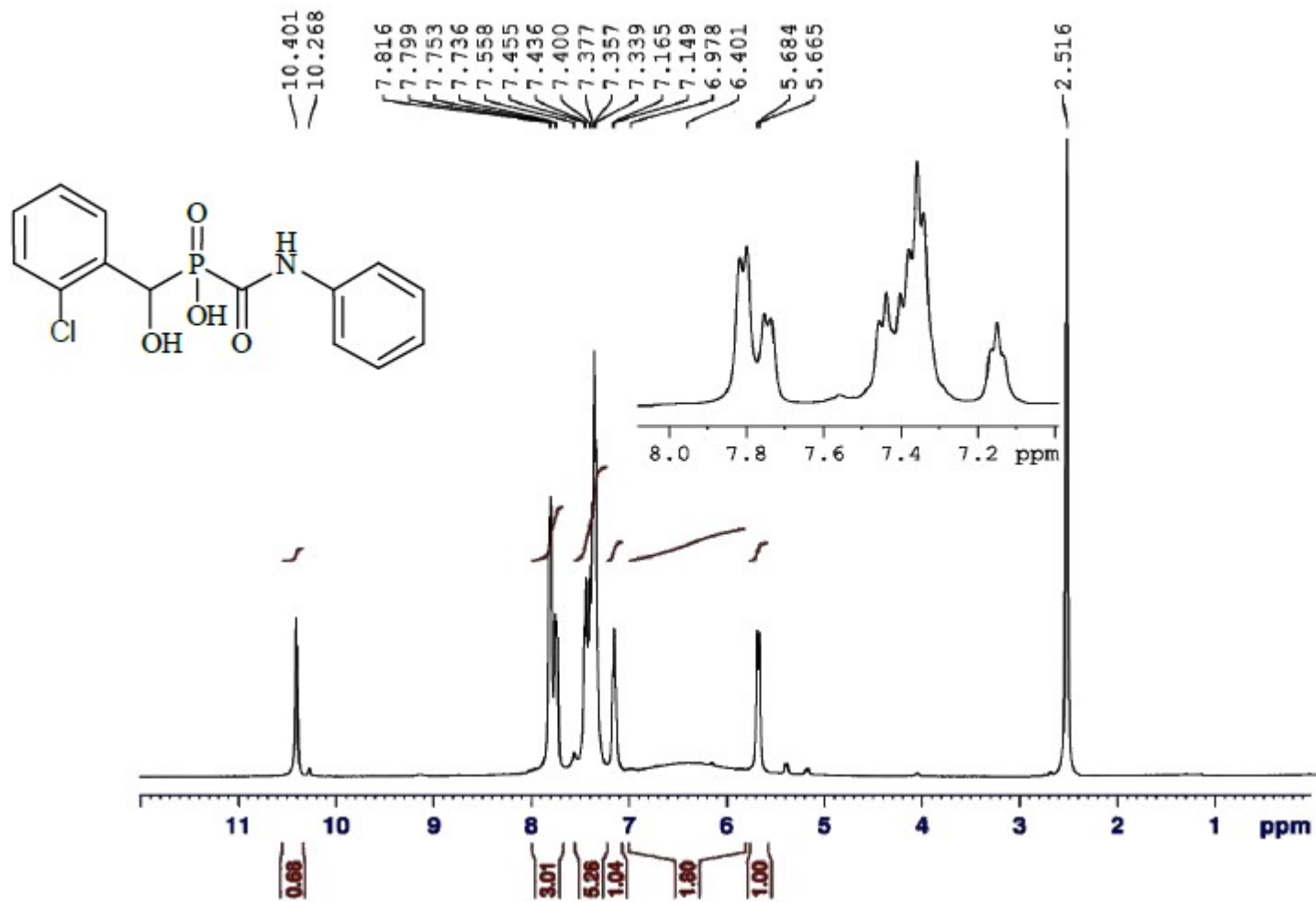


Figure S7: <sup>1</sup>H NMR Spectra of 3c

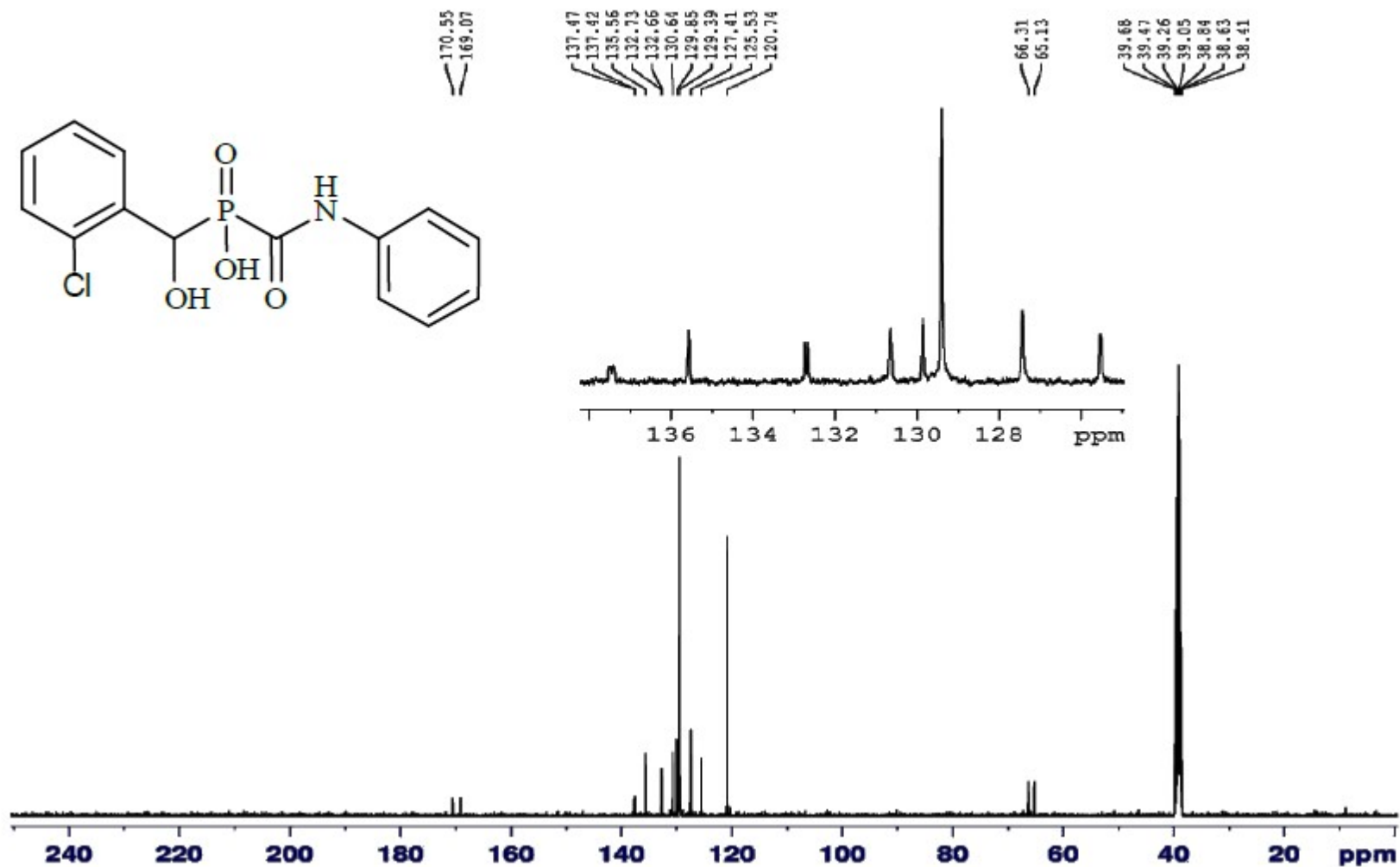


Figure S8: <sup>13</sup>C NMR Spectra of 3c

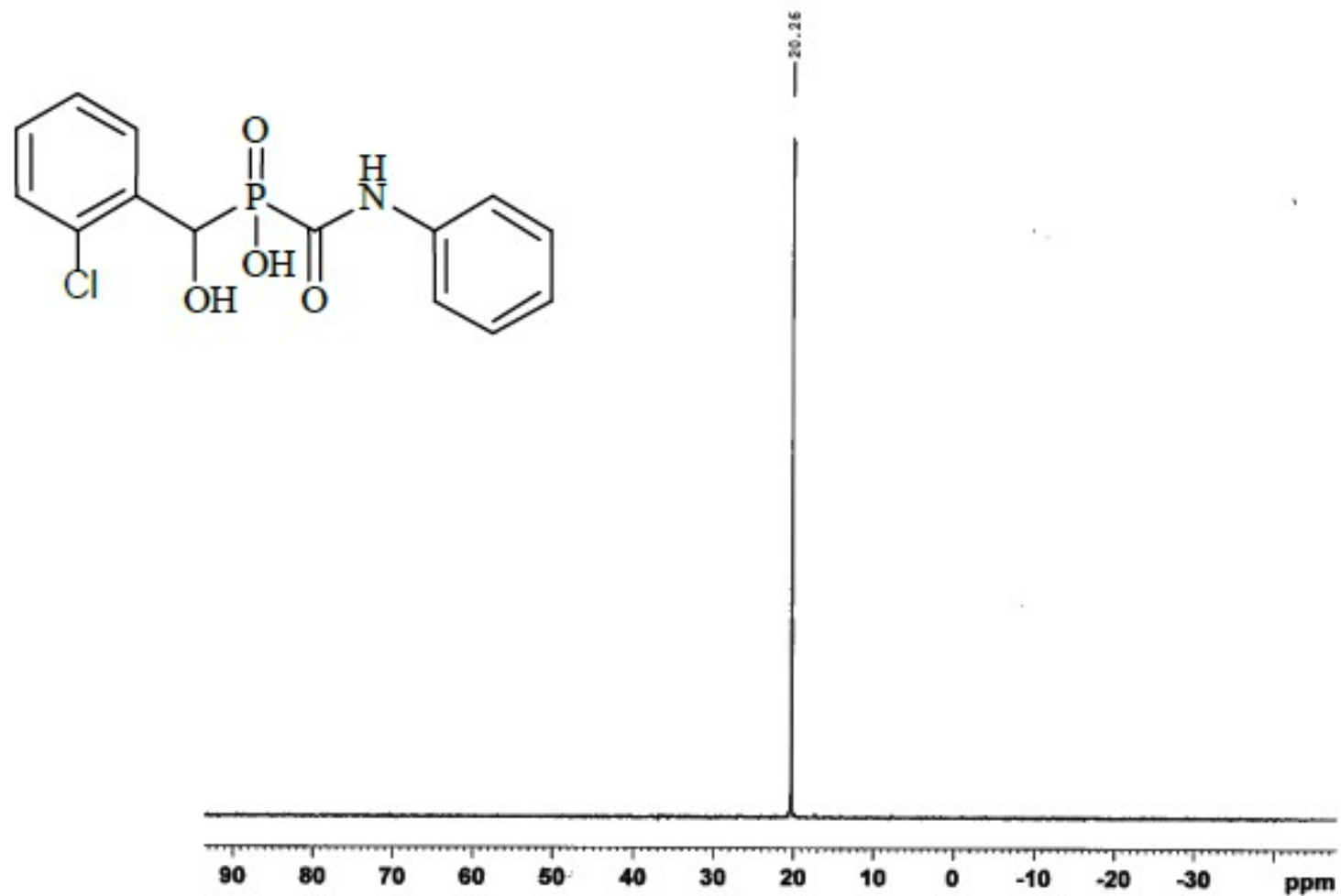


Figure S9:  $^{31}\text{P}$  NMR Spectra of 3c

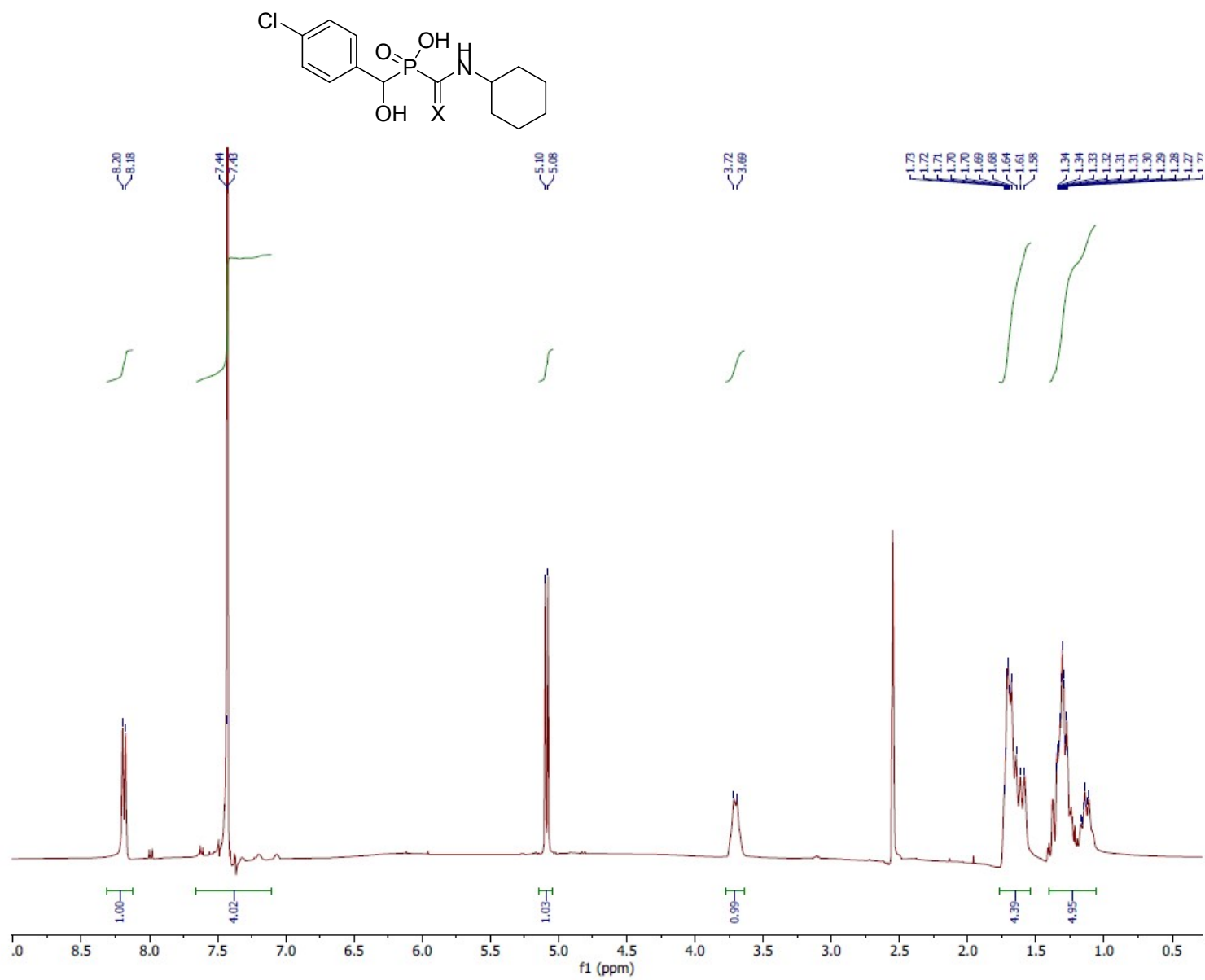


Figure S10: <sup>1</sup>H NMR Spectra of 3d

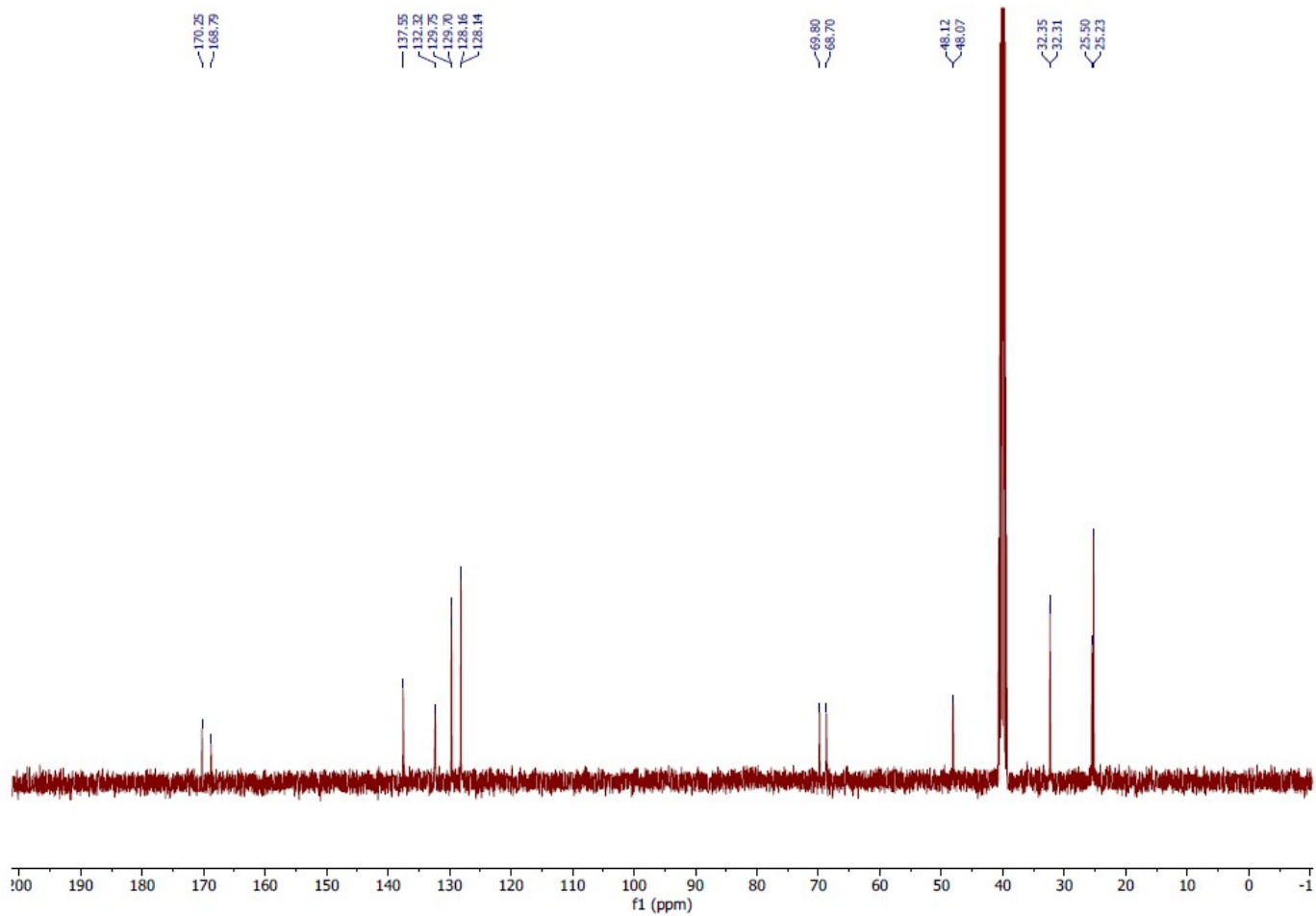
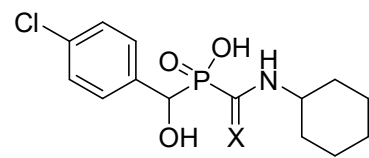
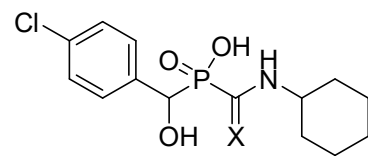


Figure S11: <sup>13</sup>C NMR Spectra of 3d



—19.52

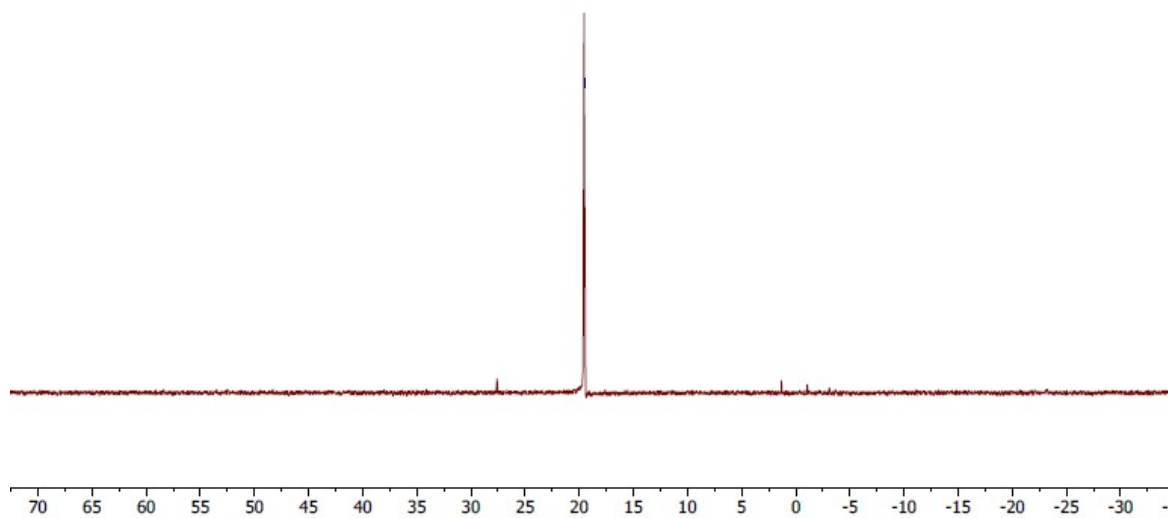


Figure S12:  $^{31}\text{P}$  NMR Spectra of 3d



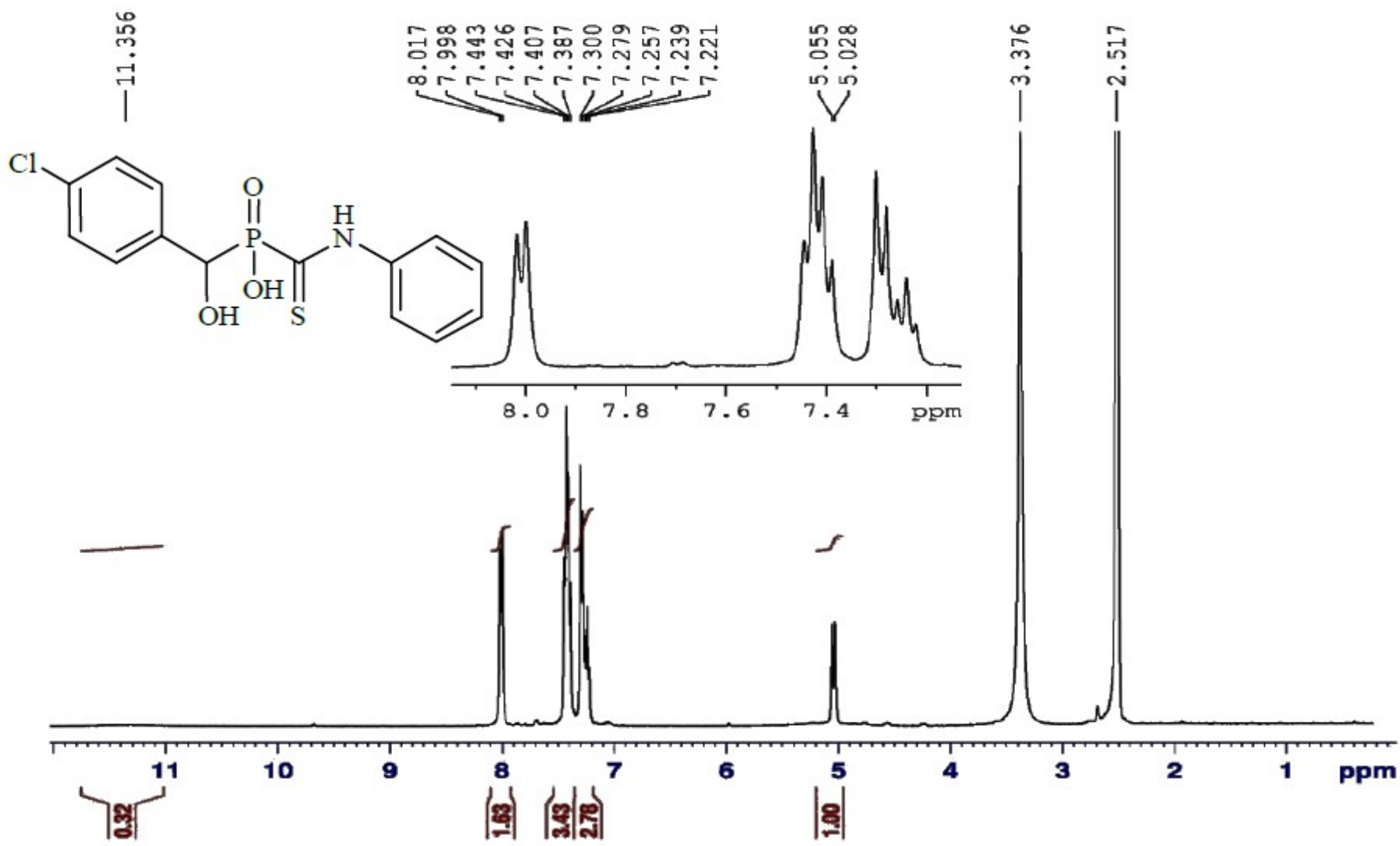


Figure S13:  $^1\text{H}$  NMR Spectra of 3e

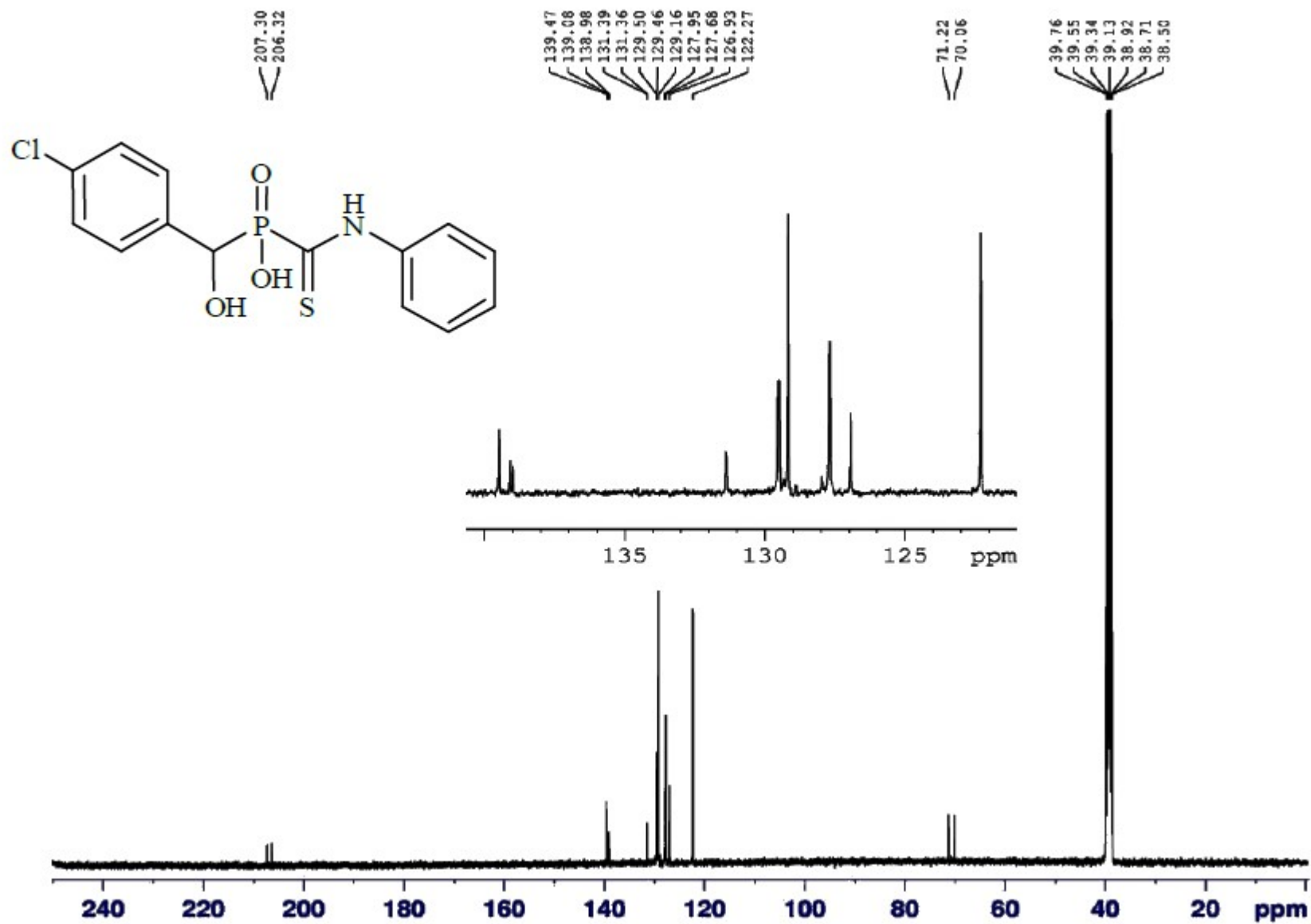


Figure S14:  $^{13}\text{C}$  NMR Spectra of 3e

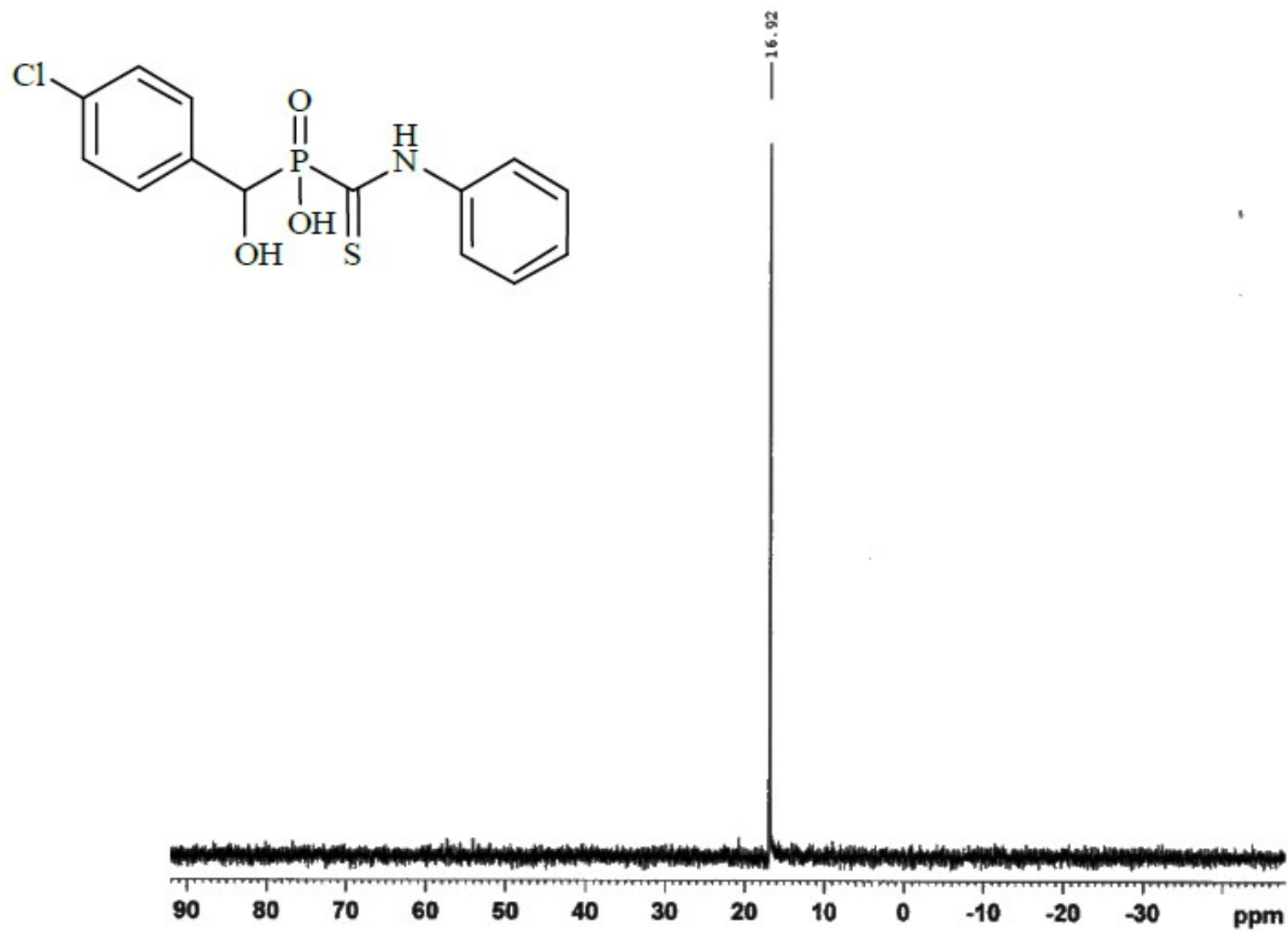


Figure S15:  $^{31}\text{P}$  NMR Spectra of 3e

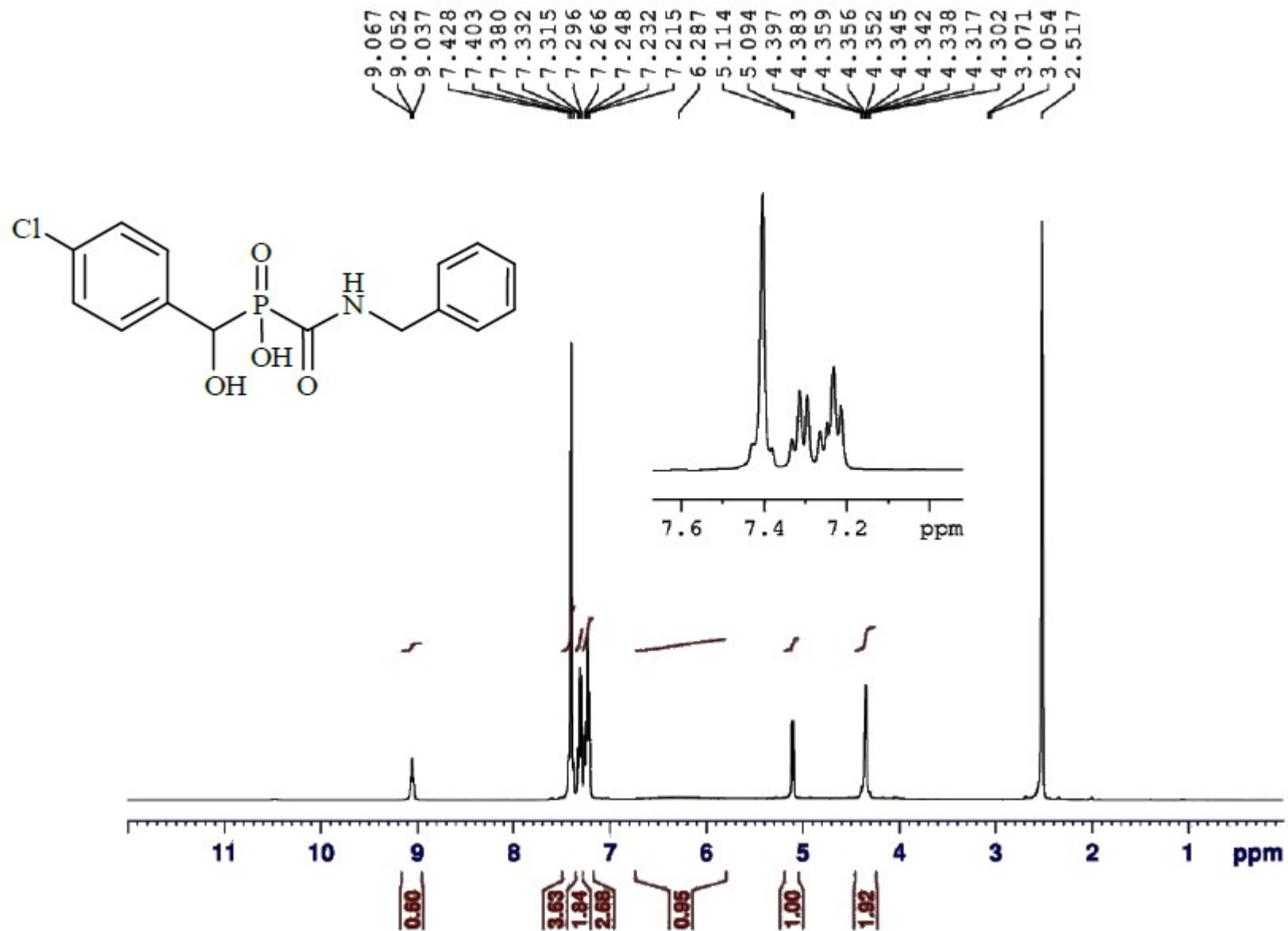


Figure S16: <sup>1</sup>H NMR Spectra of 3f

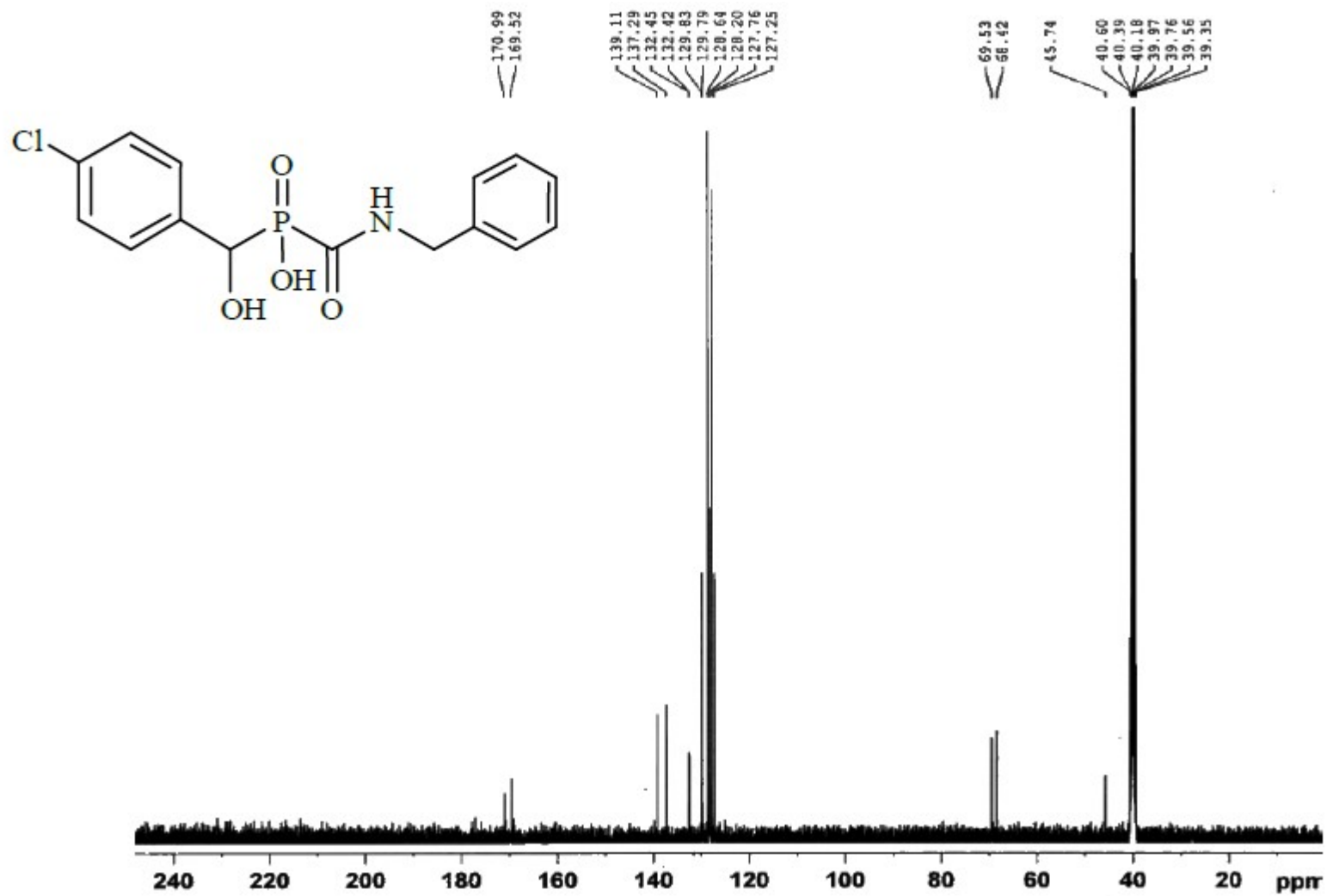


Figure S17: <sup>13</sup>C NMR Spectra of 3f

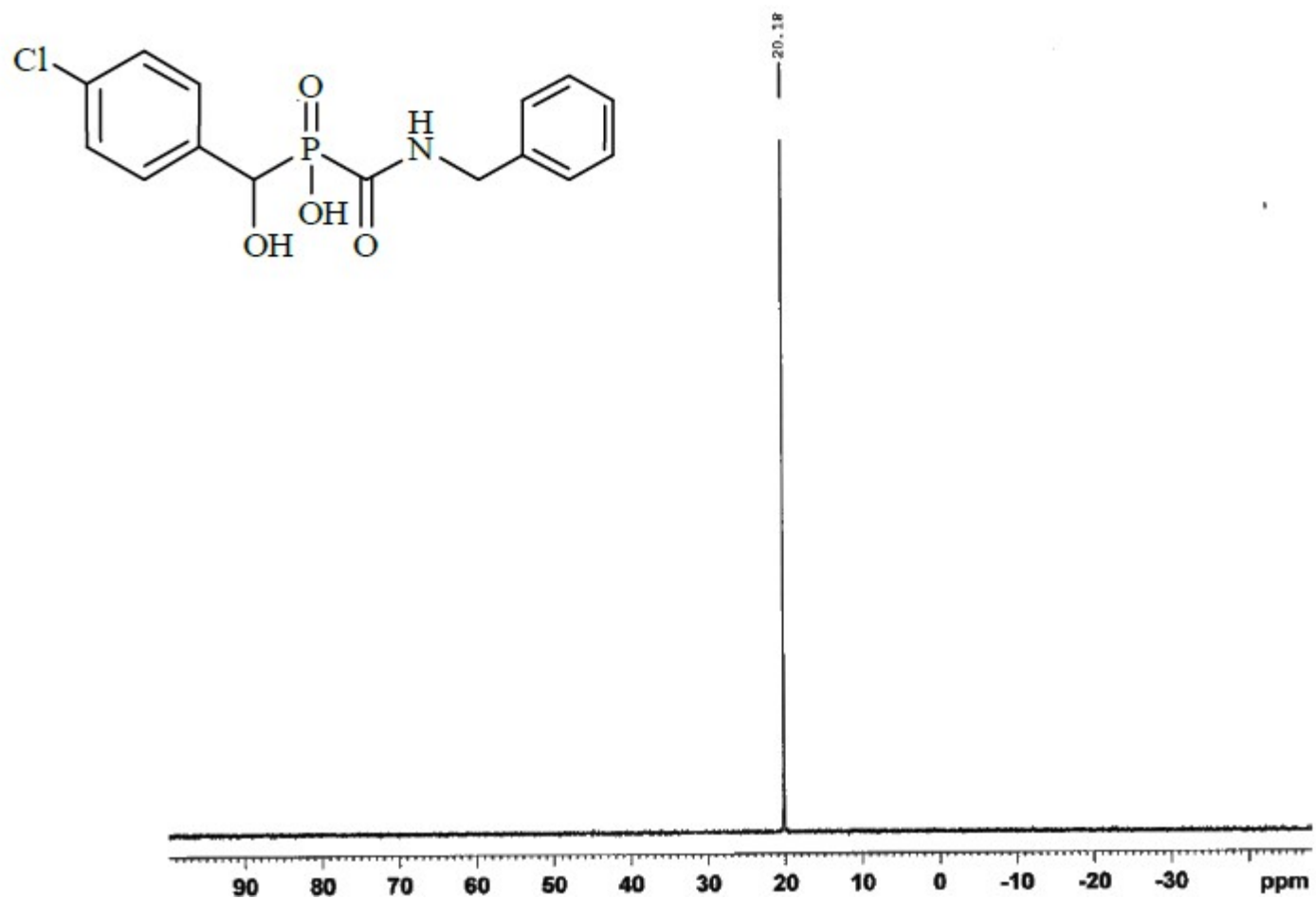


Figure S18:  $^{31}\text{P}$  NMR Spectra of 3f

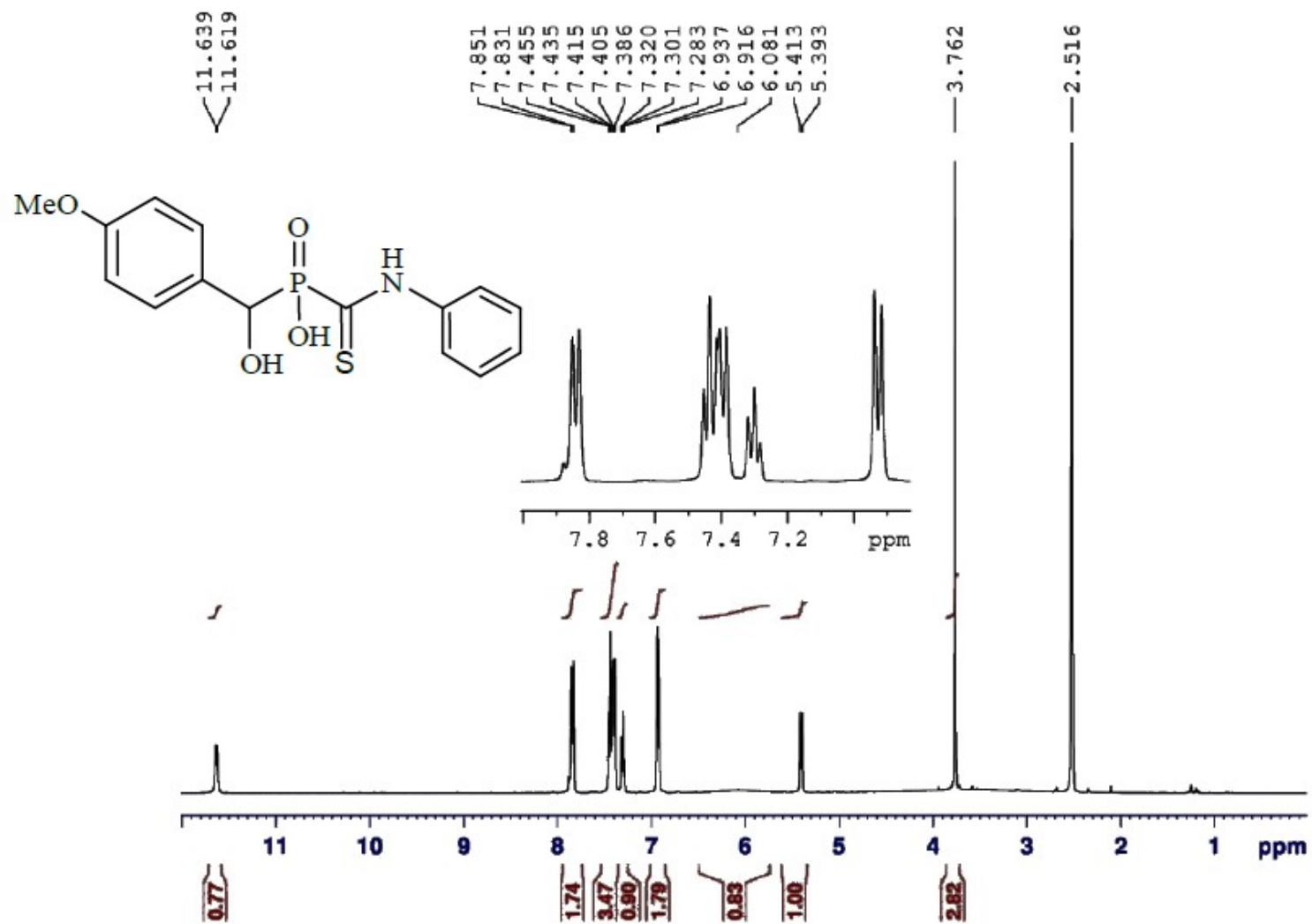


Figure S19: <sup>1</sup>H NMR Spectra of 3g

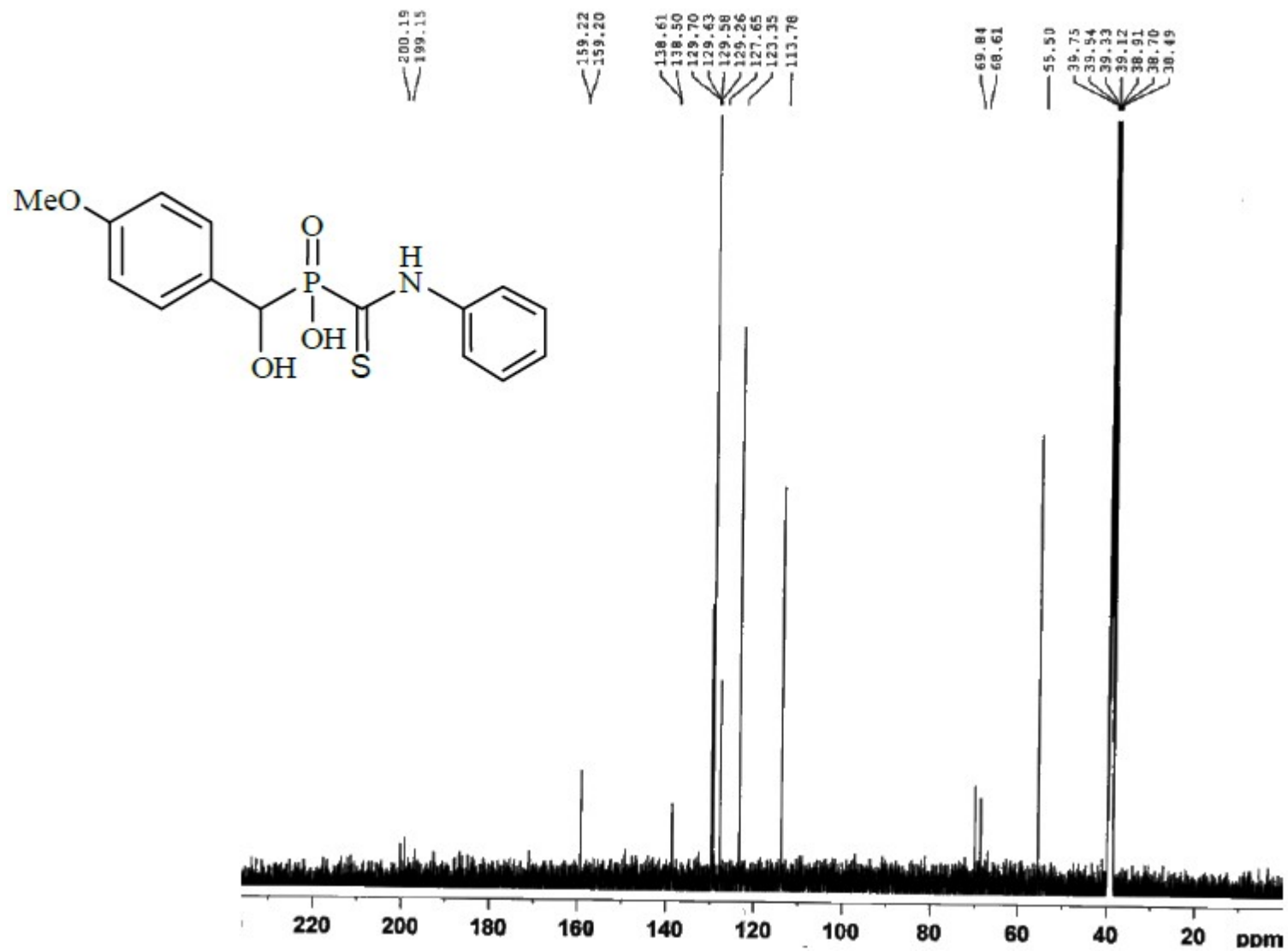


Figure S20: <sup>13</sup>C NMR Spectra of 3g



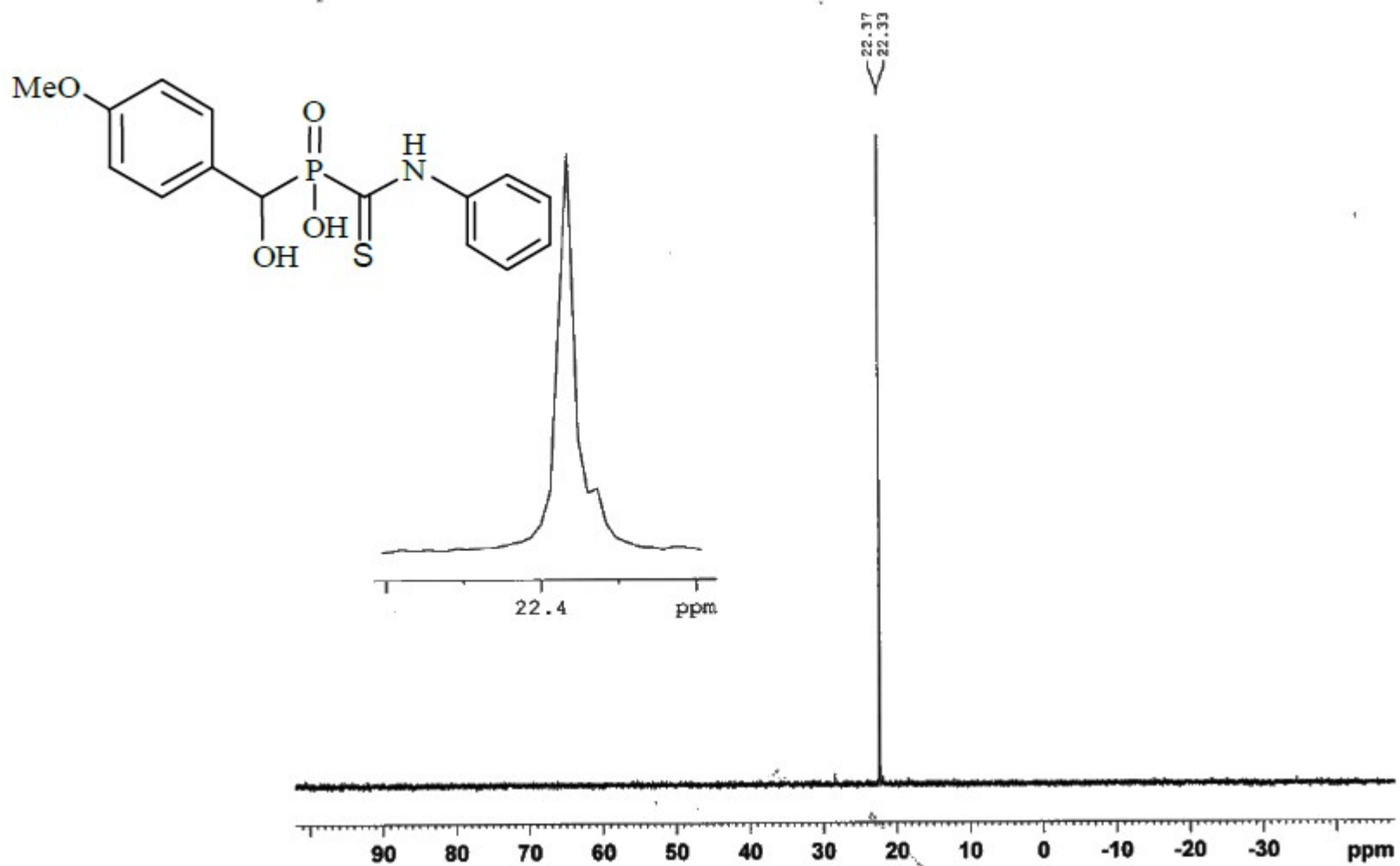


Figure S21:  $^{31}\text{P}$  NMR Spectra of 3g

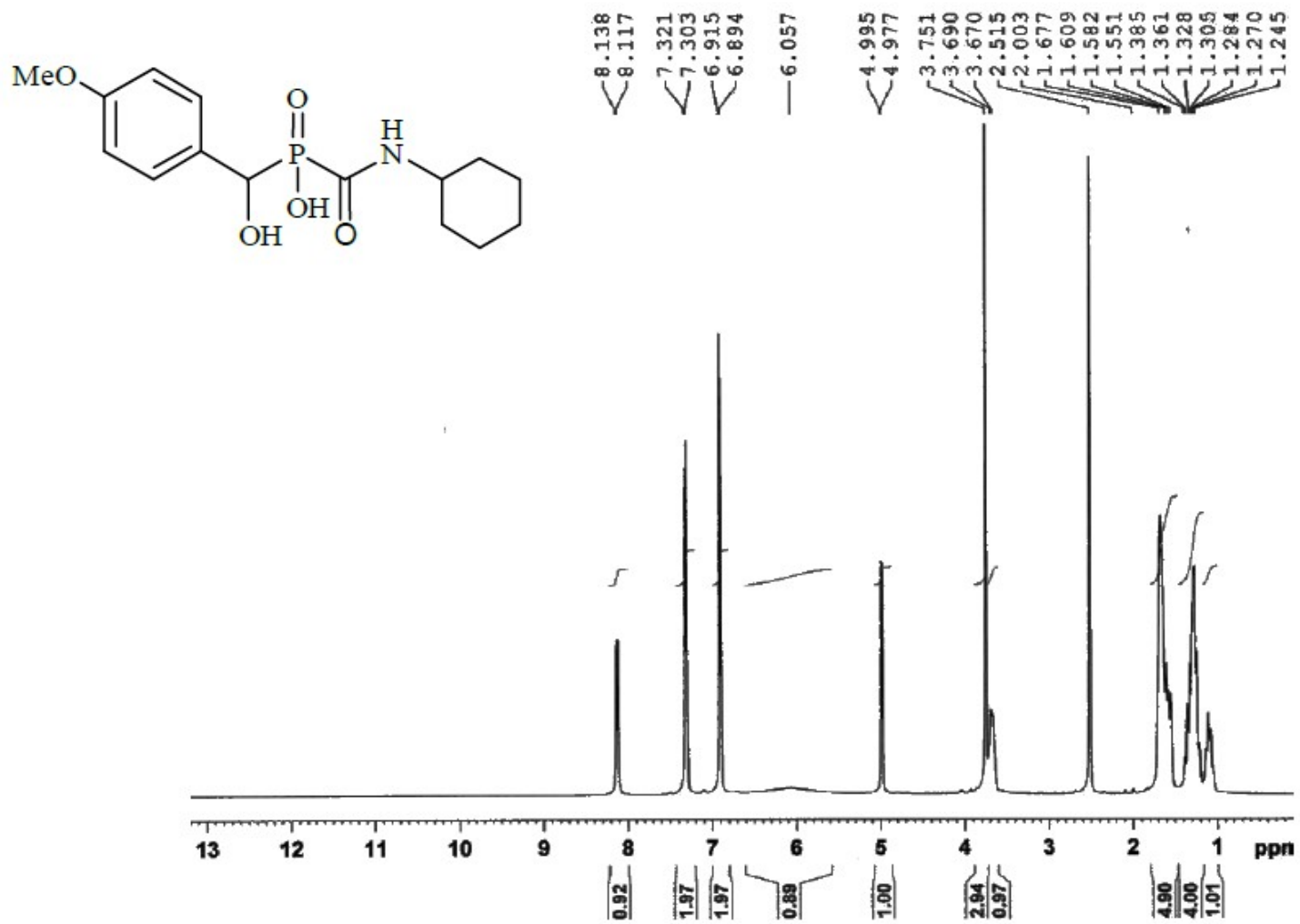


Figure S22: <sup>1</sup>H NMR Spectra of 3h

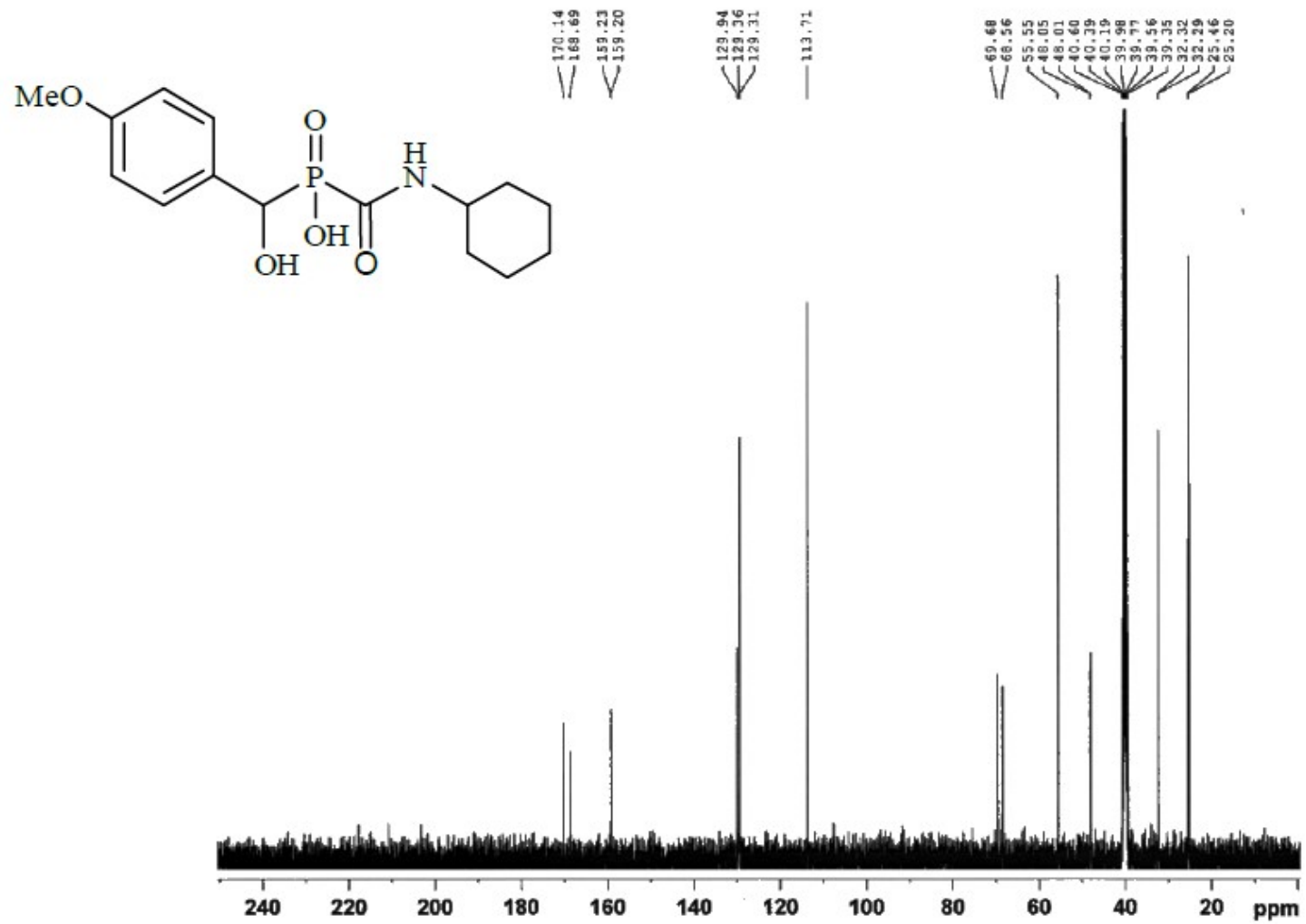


Figure S23: <sup>13</sup>C NMR Spectra of 3h

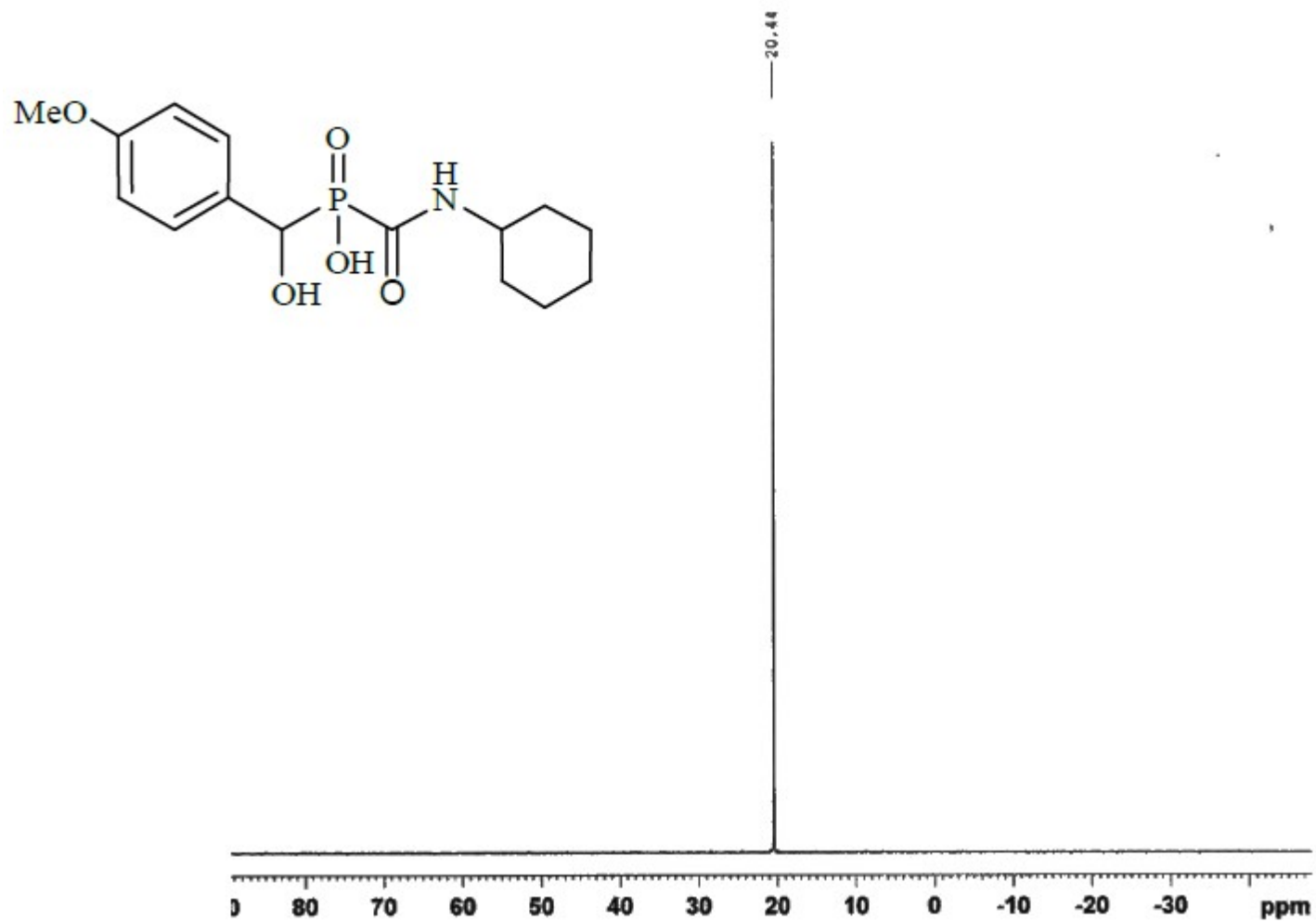


Figure S24:  $^{31}\text{P}$  NMR Spectra of 3h

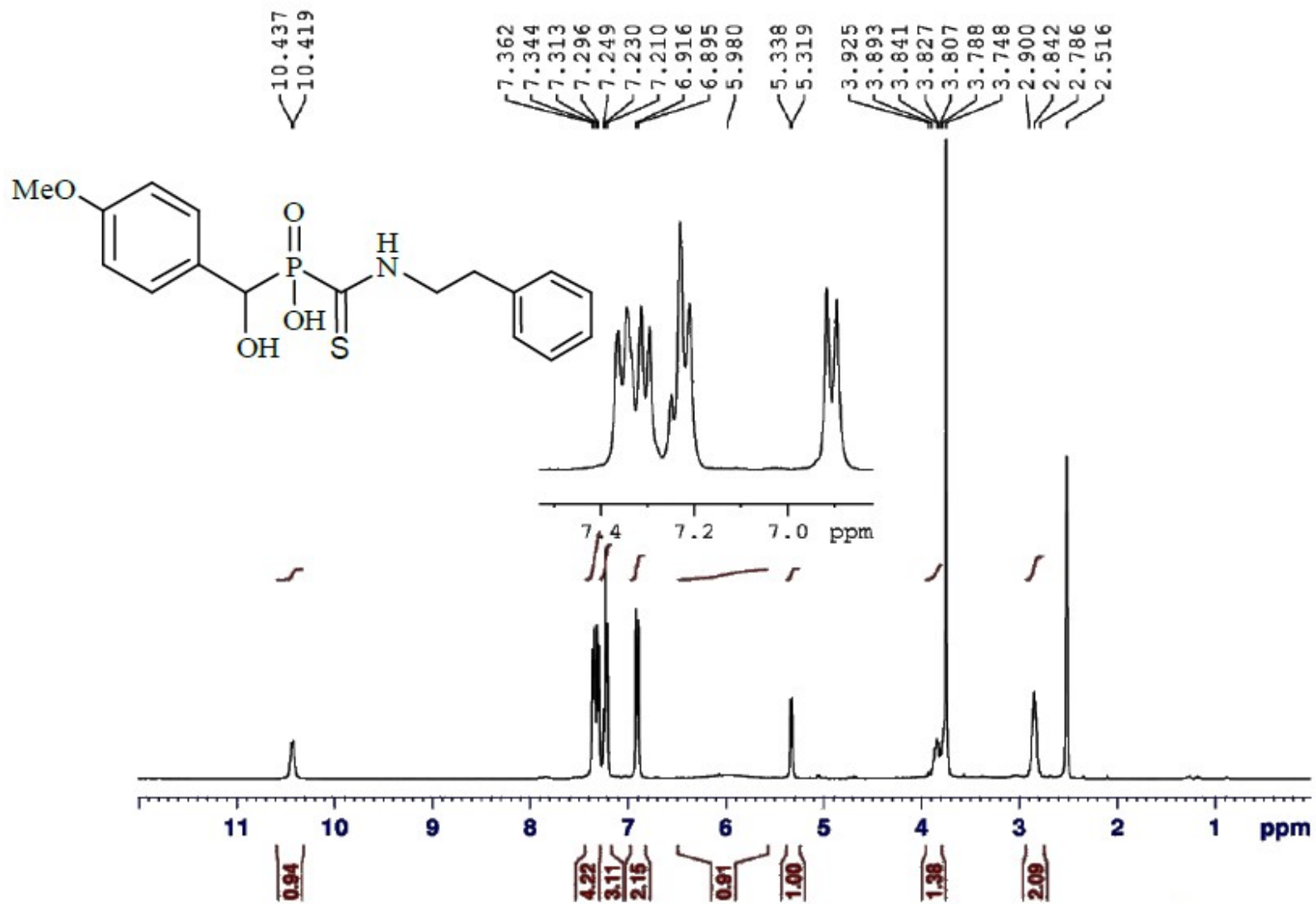


Figure S25: <sup>1</sup>H NMR Spectra of 3i

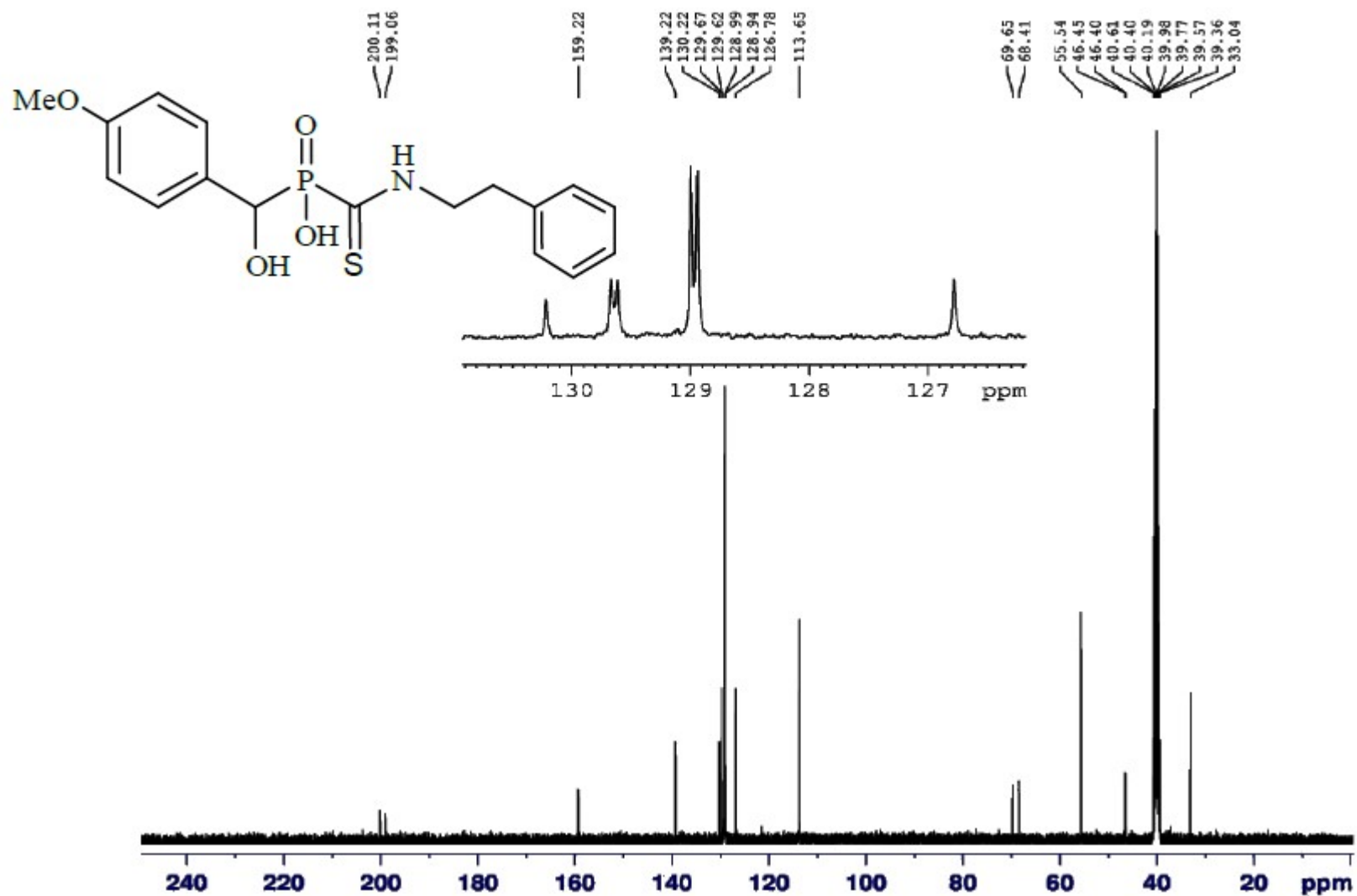


Figure S26:  $^{13}\text{C}$  NMR Spectra of 3i

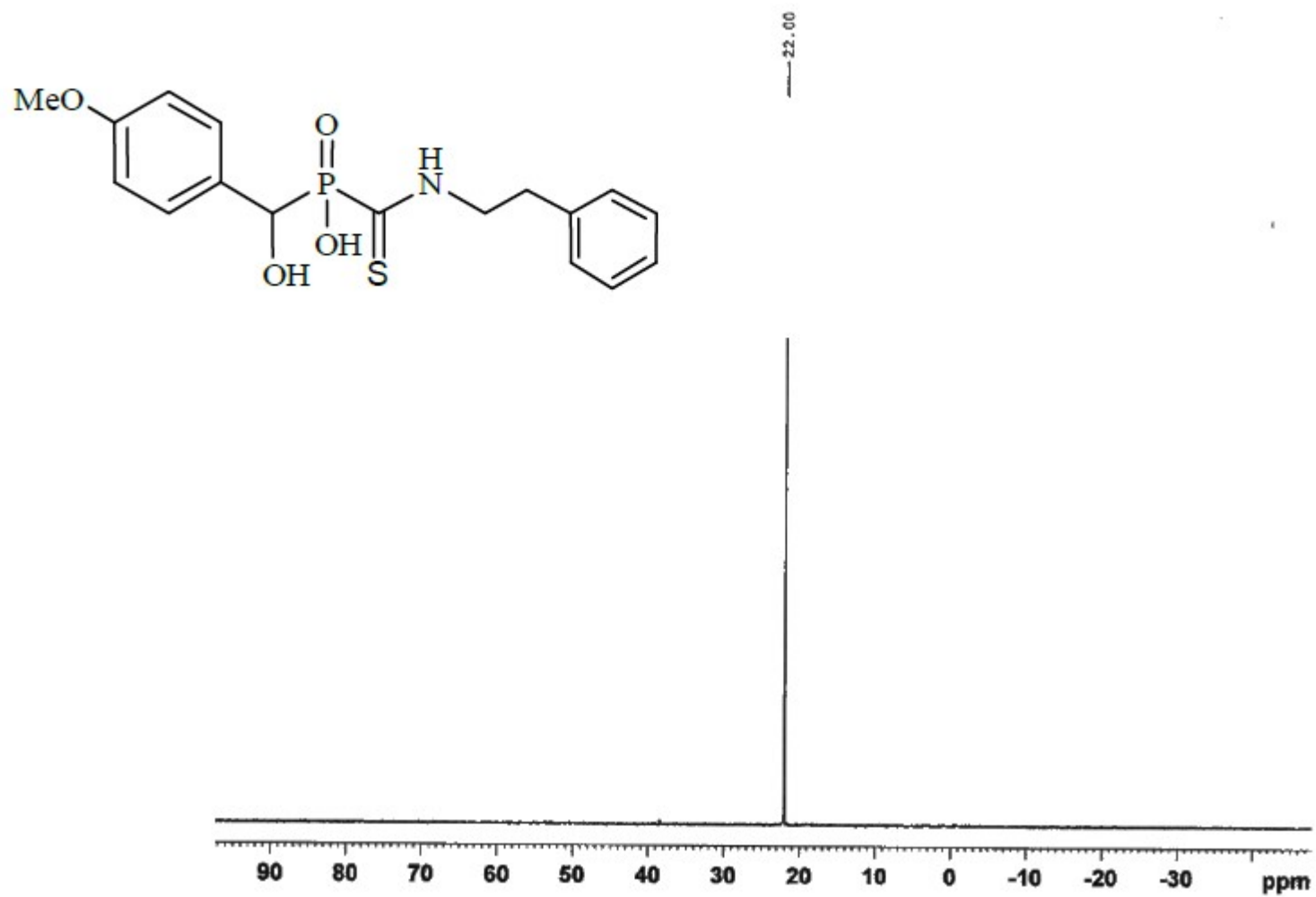


Figure S27:  $^{31}\text{P}$  NMR Spectra of 3i

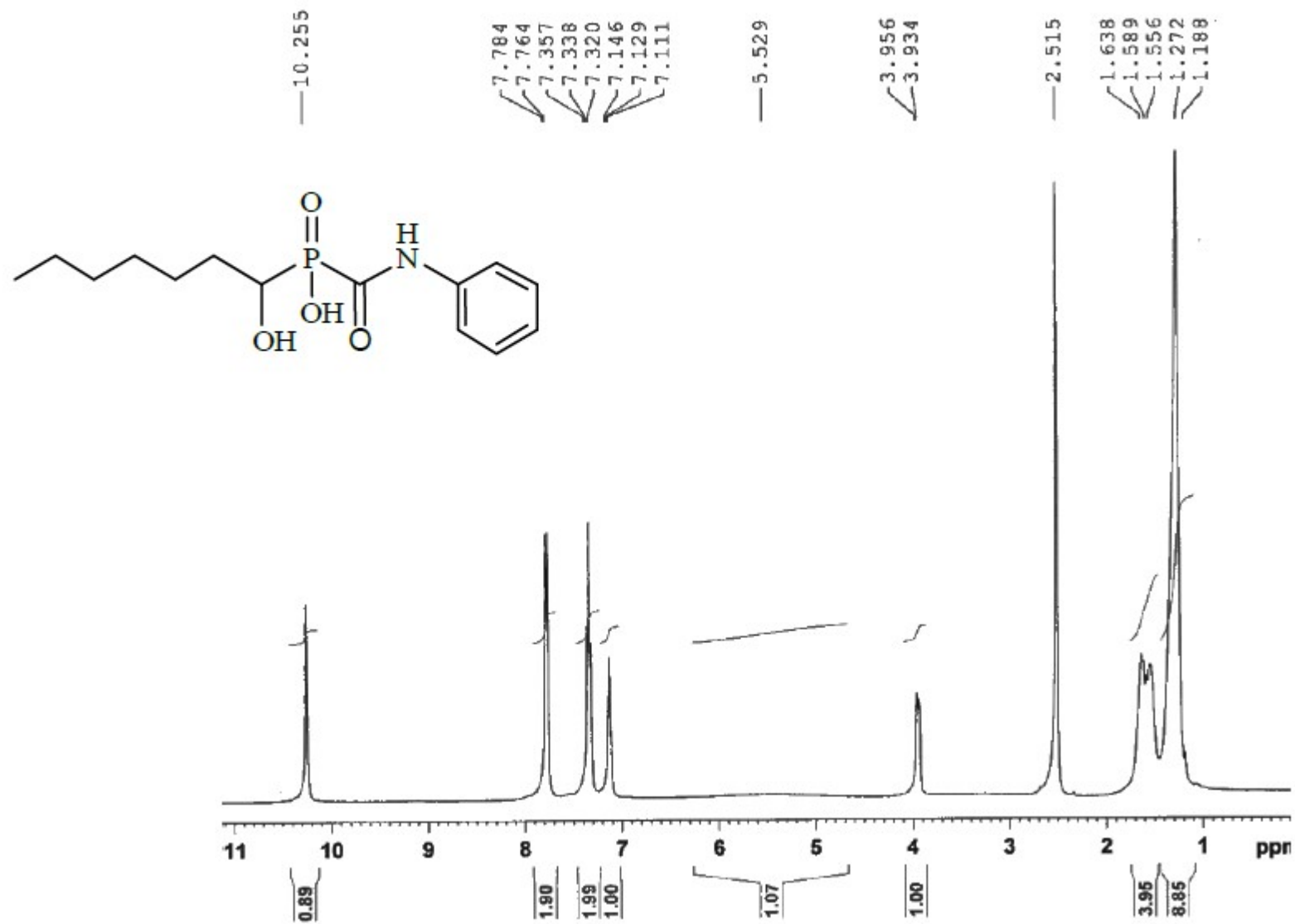


Figure S28: <sup>1</sup>H NMR Spectra of 3j



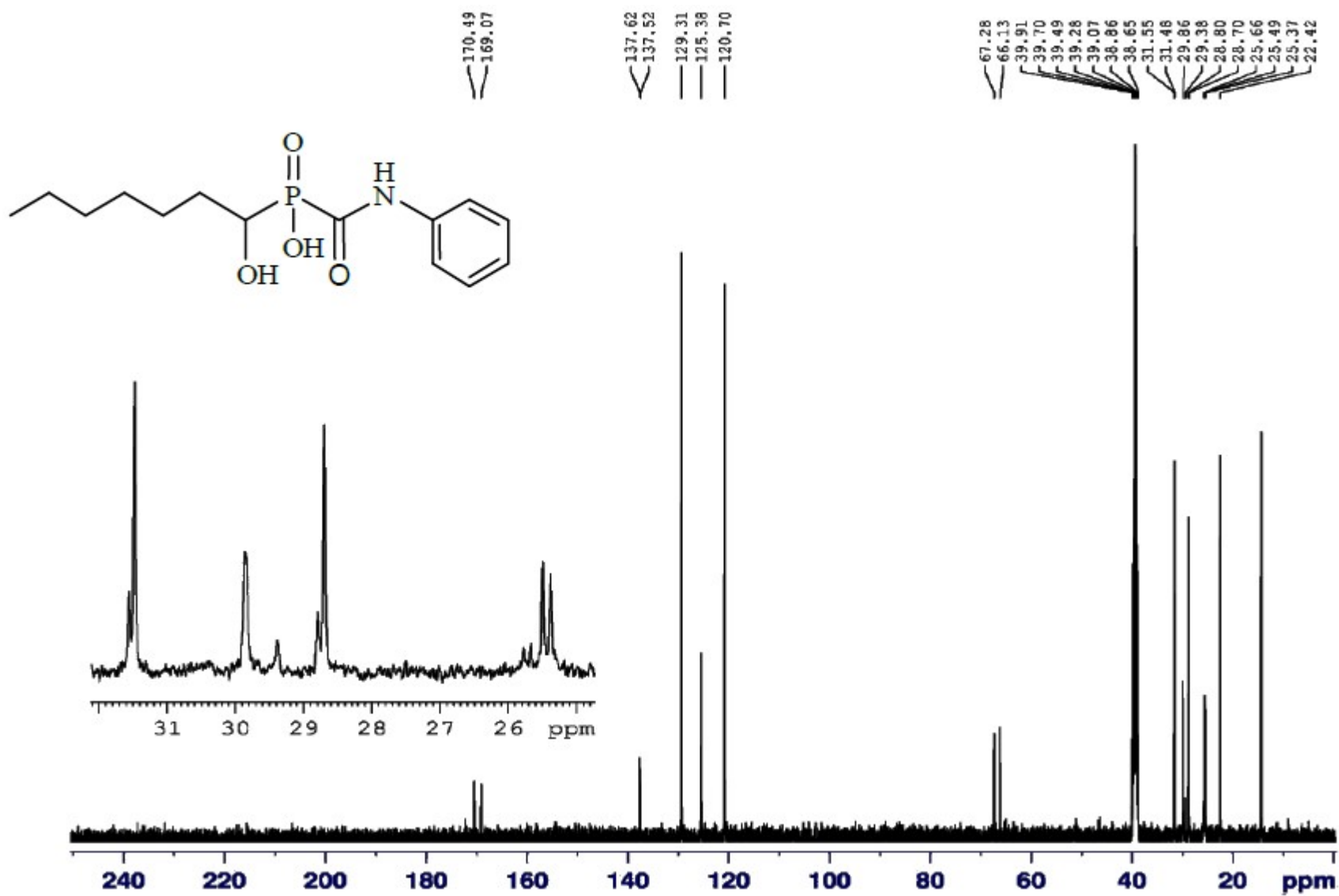


Figure S29: <sup>13</sup>C NMR Spectra of 3j

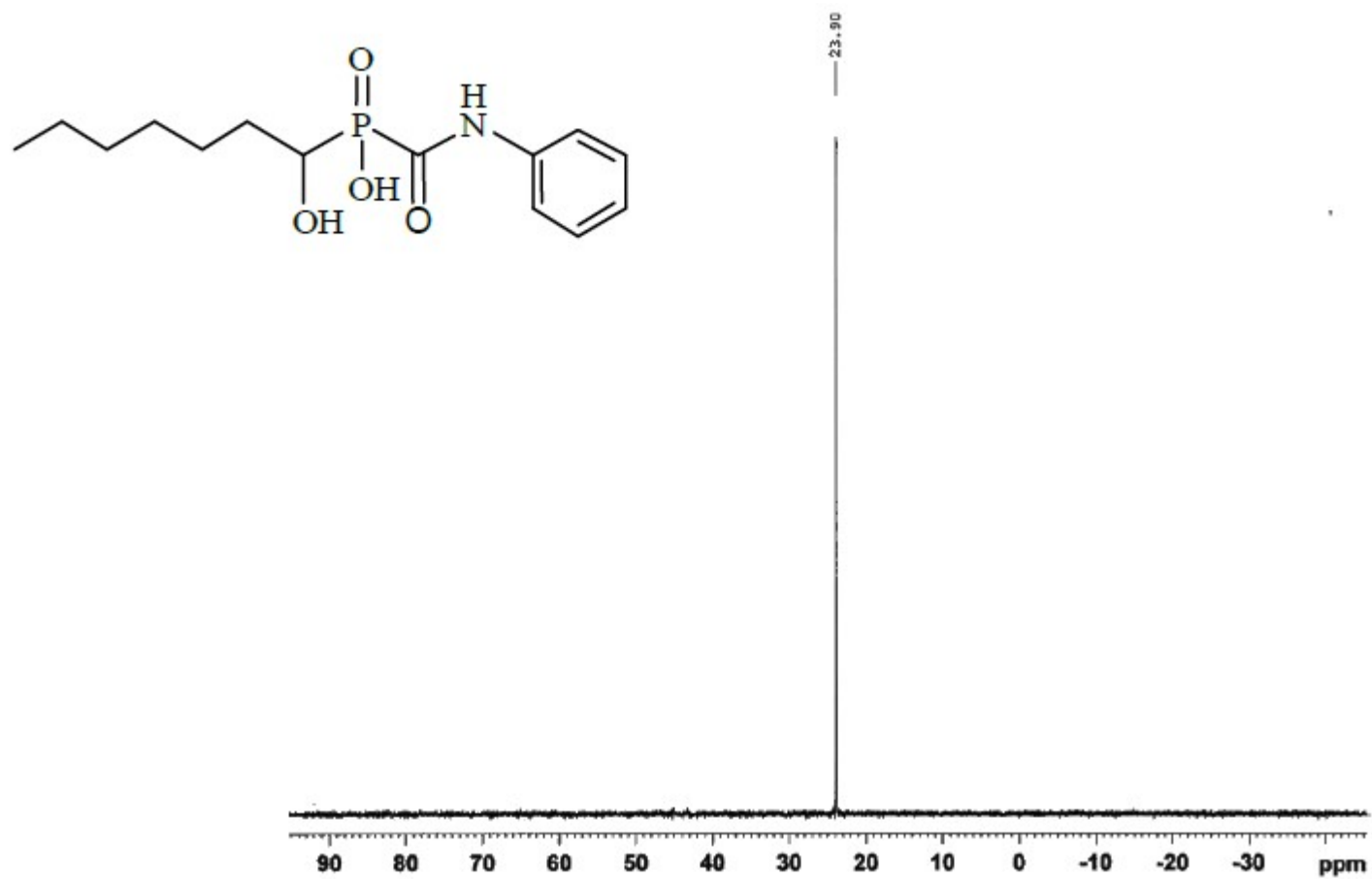


Figure S30:  $^{31}\text{P}$  NMR Spectra of 3j

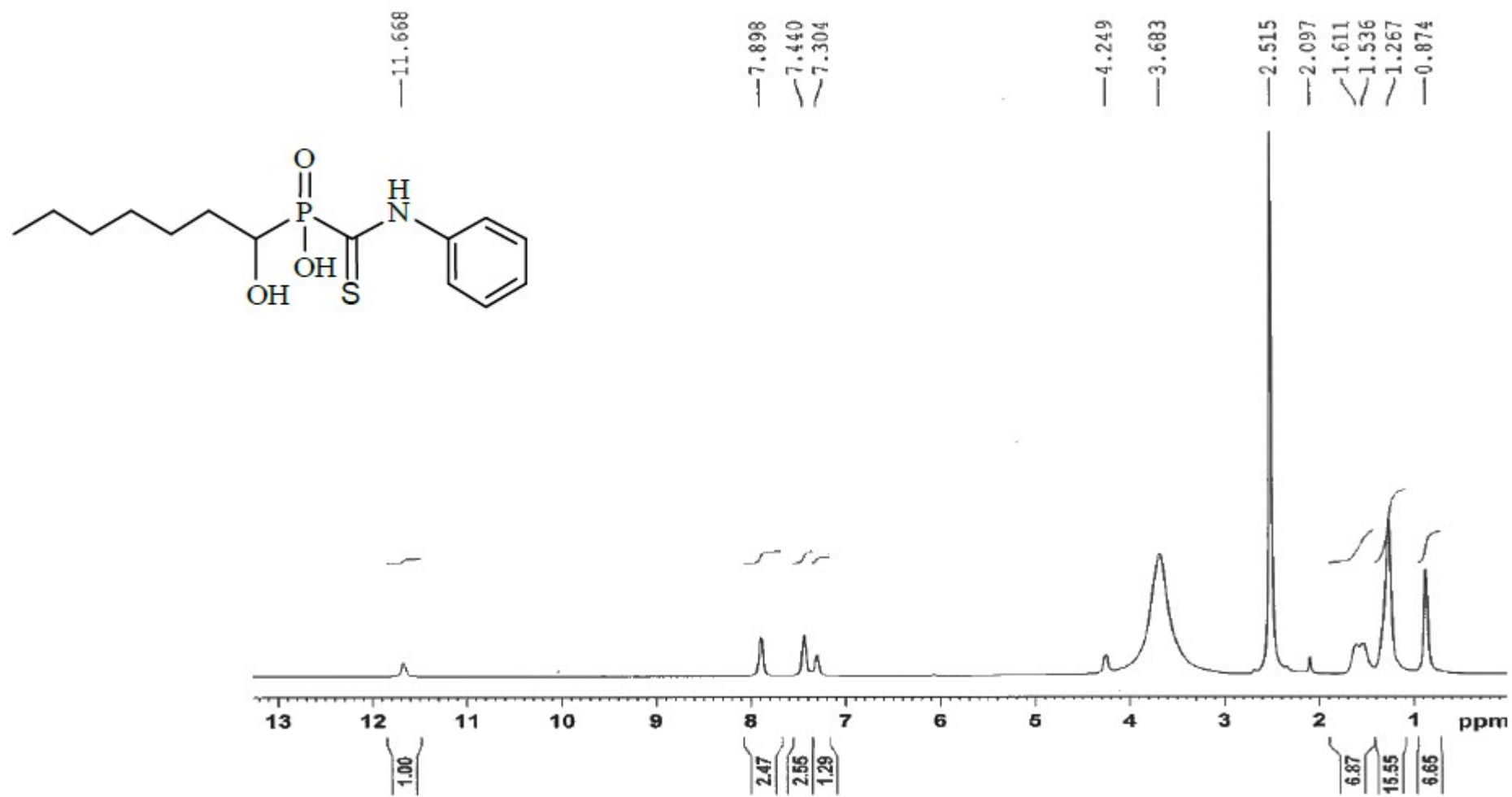


Figure S31: <sup>1</sup>H NMR Spectra of 3k

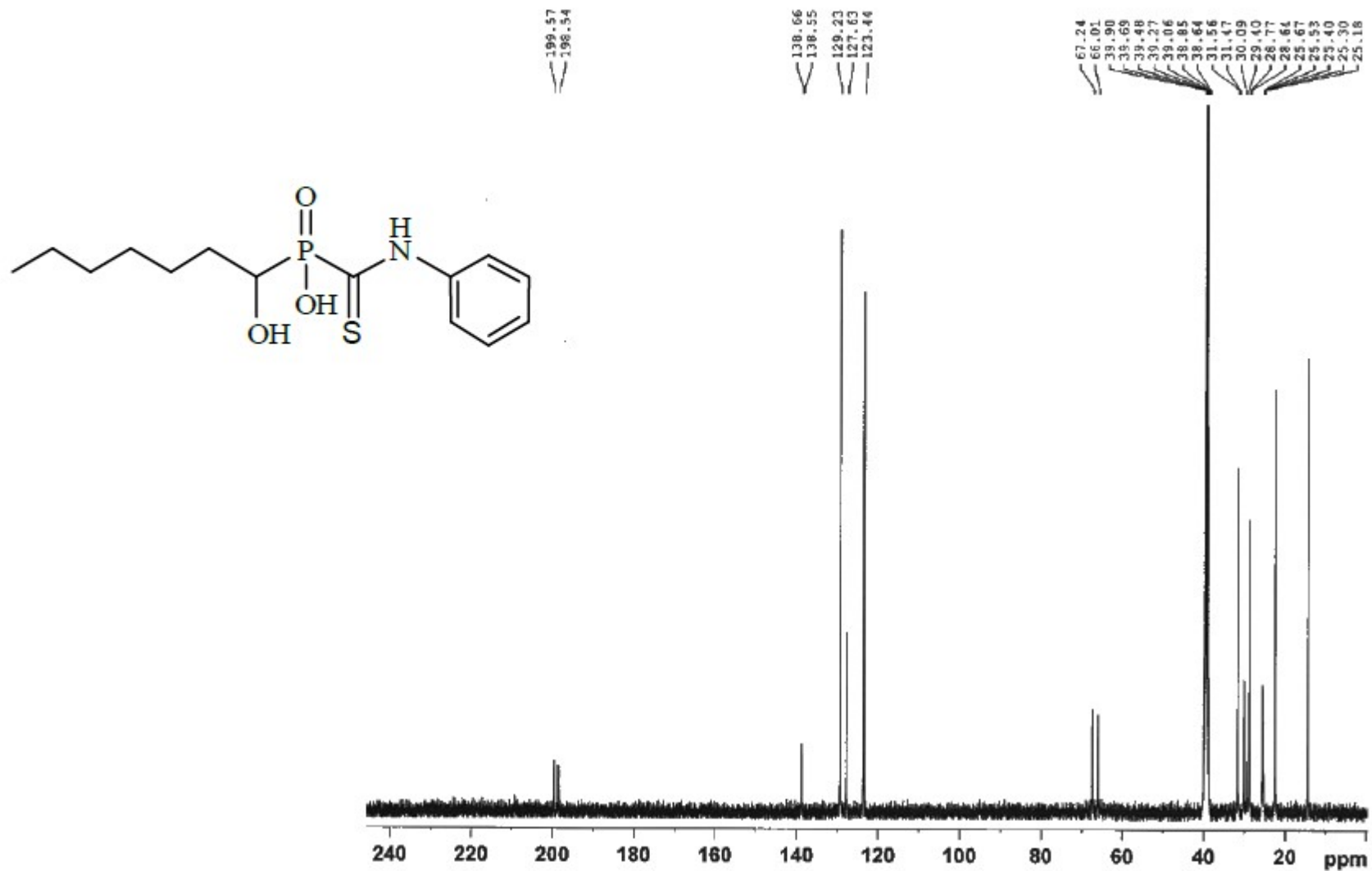


Figure S32: <sup>13</sup>C NMR Spectra of 3k

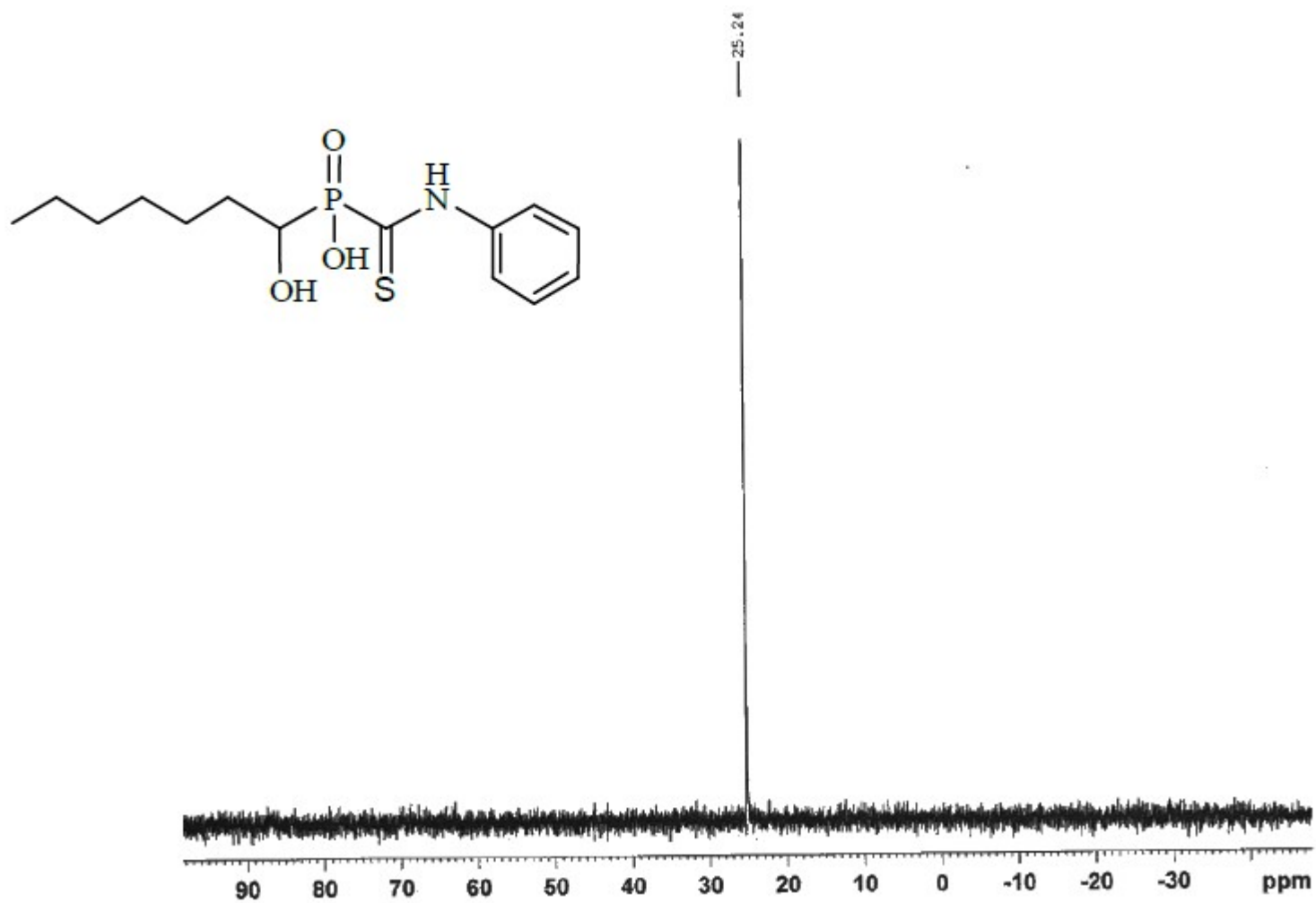
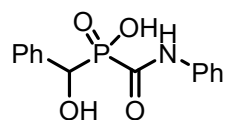
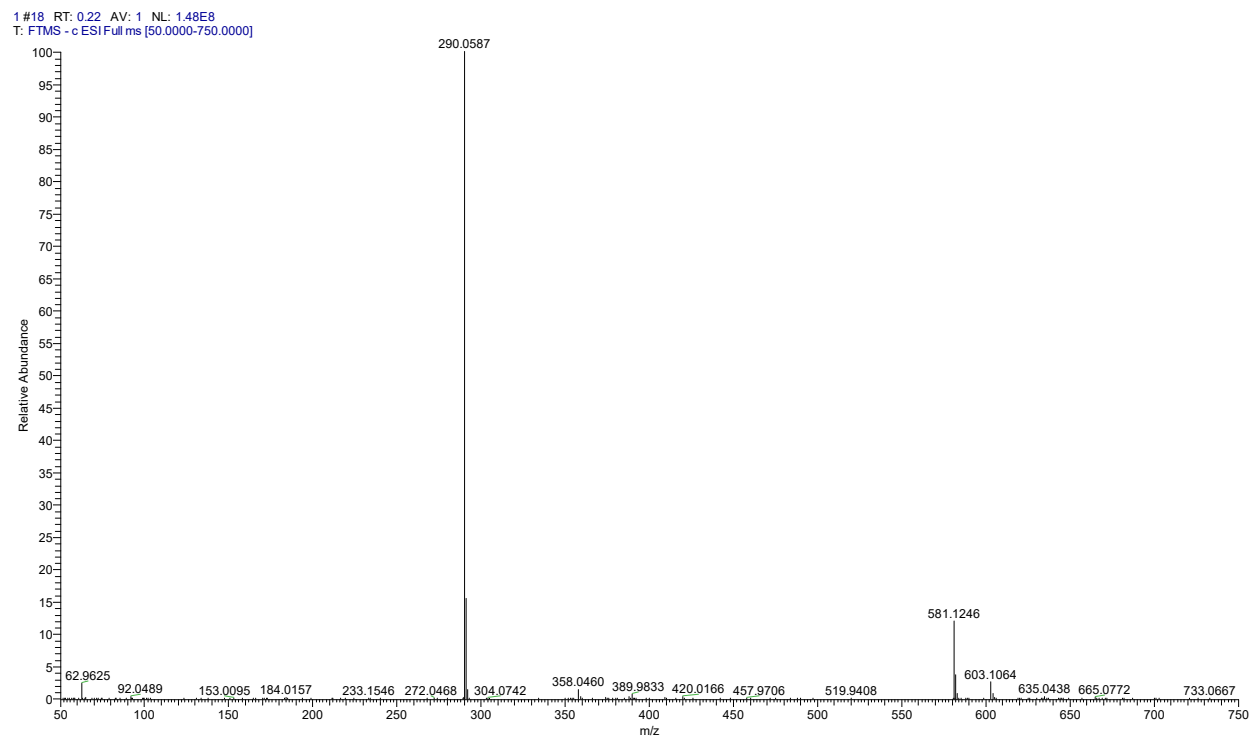


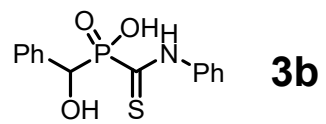
Figure S33:  $^{31}\text{P}$  NMR Spectra of 3k



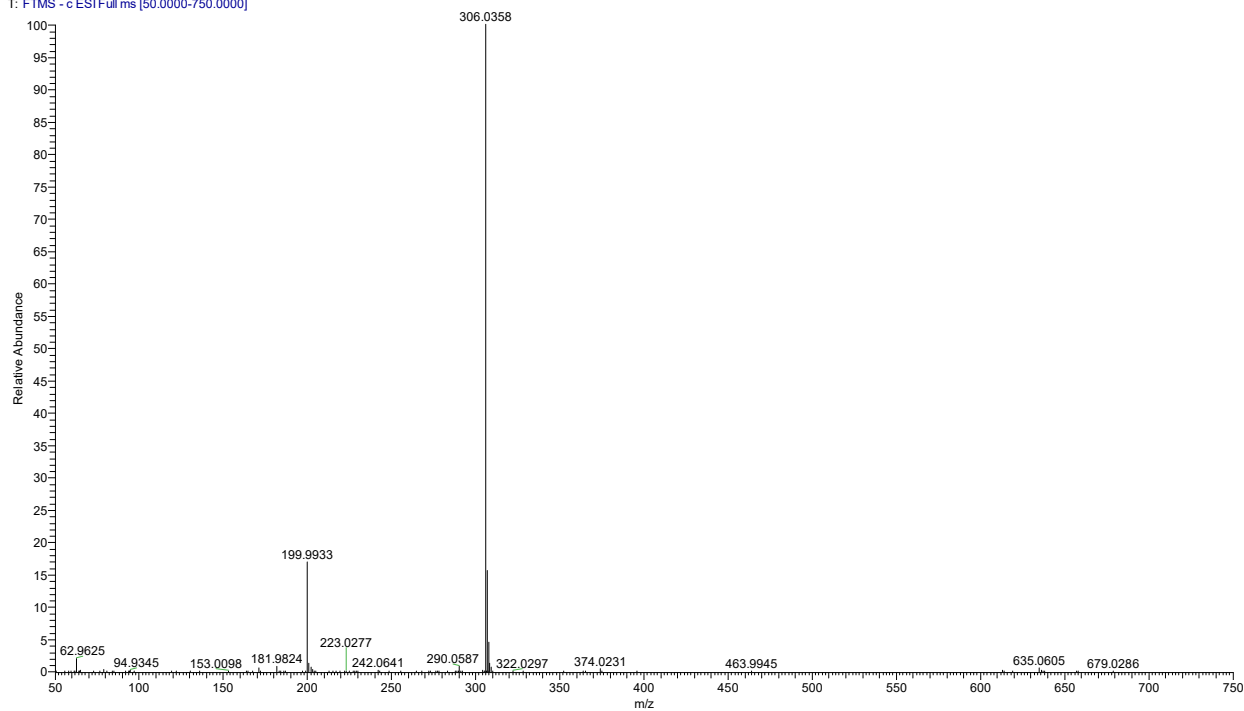
**3a**



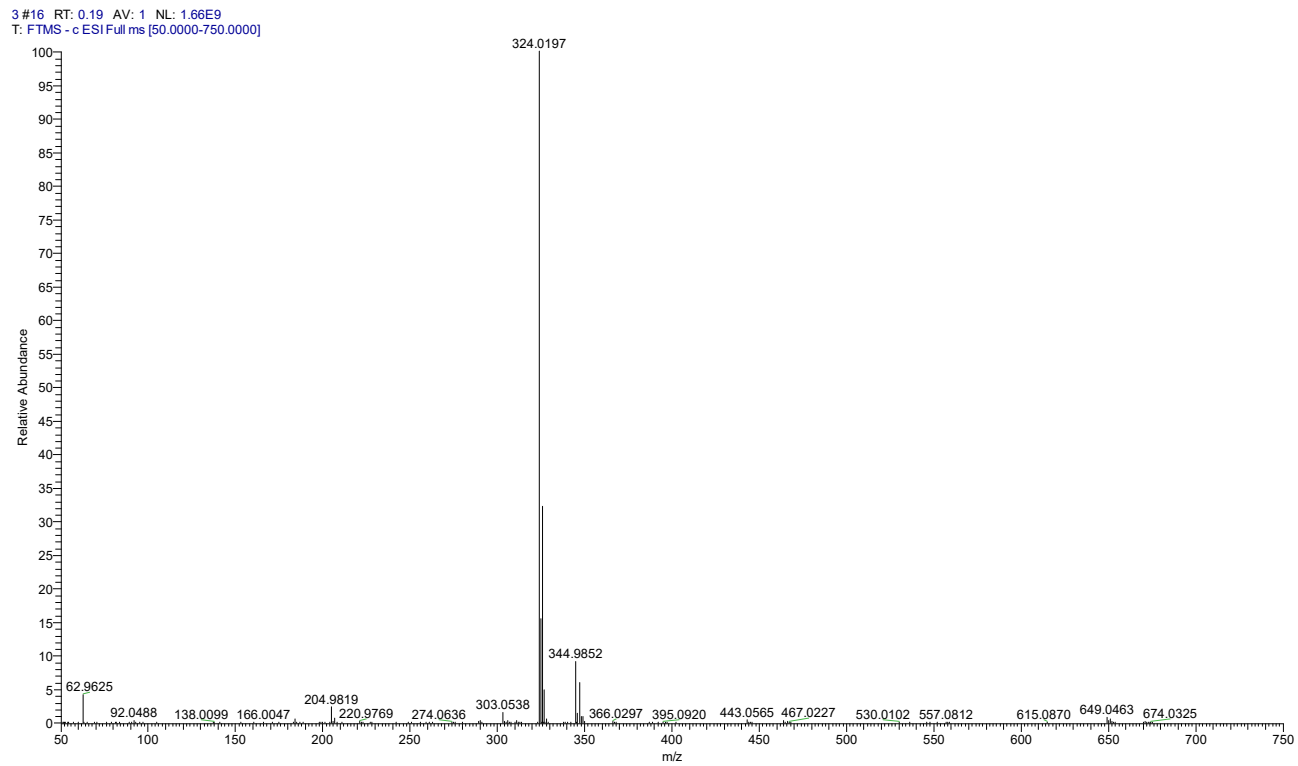
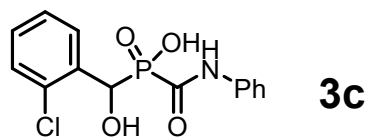
**Figure S34: LCMS of 3a**



2 #16 RT: 0.19 AV: 1 NL: 9.79E8  
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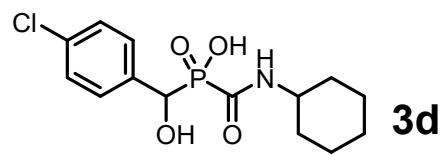


**Figure S35: LCMS of 3b**

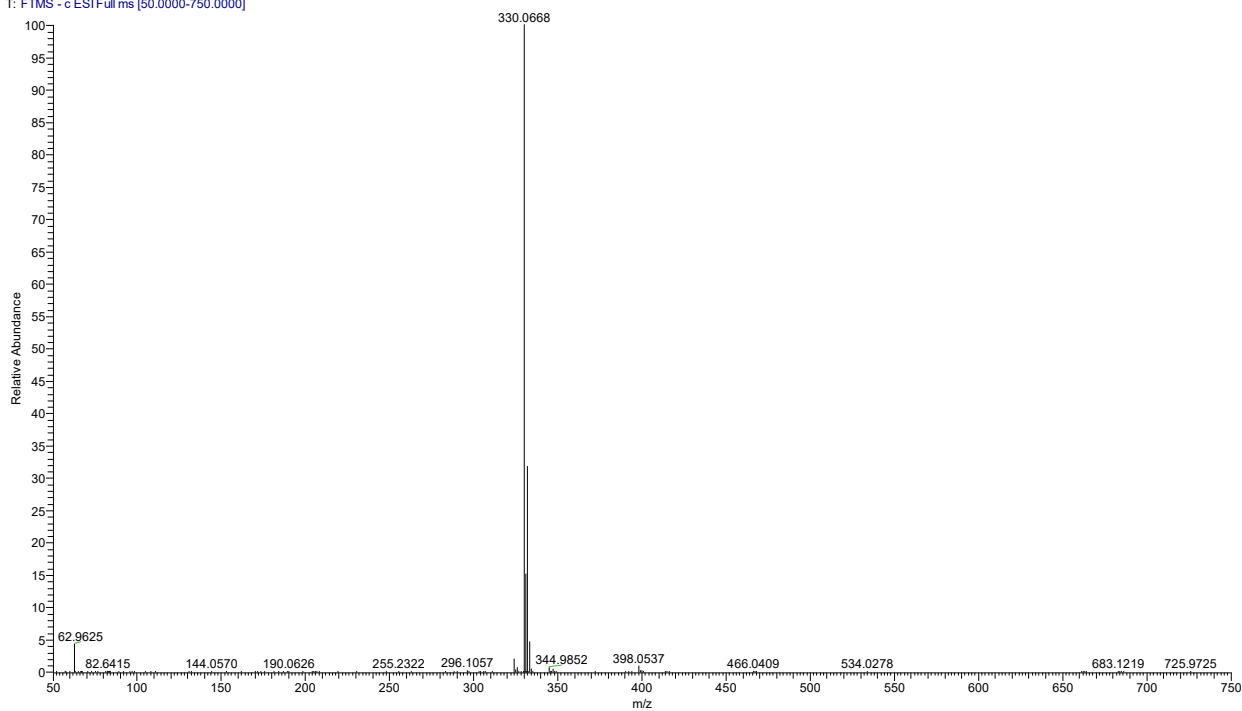


**Figure S36: LCMS of 3c**

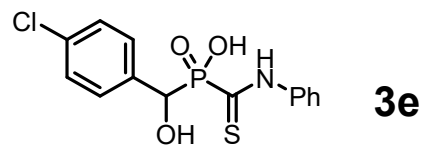




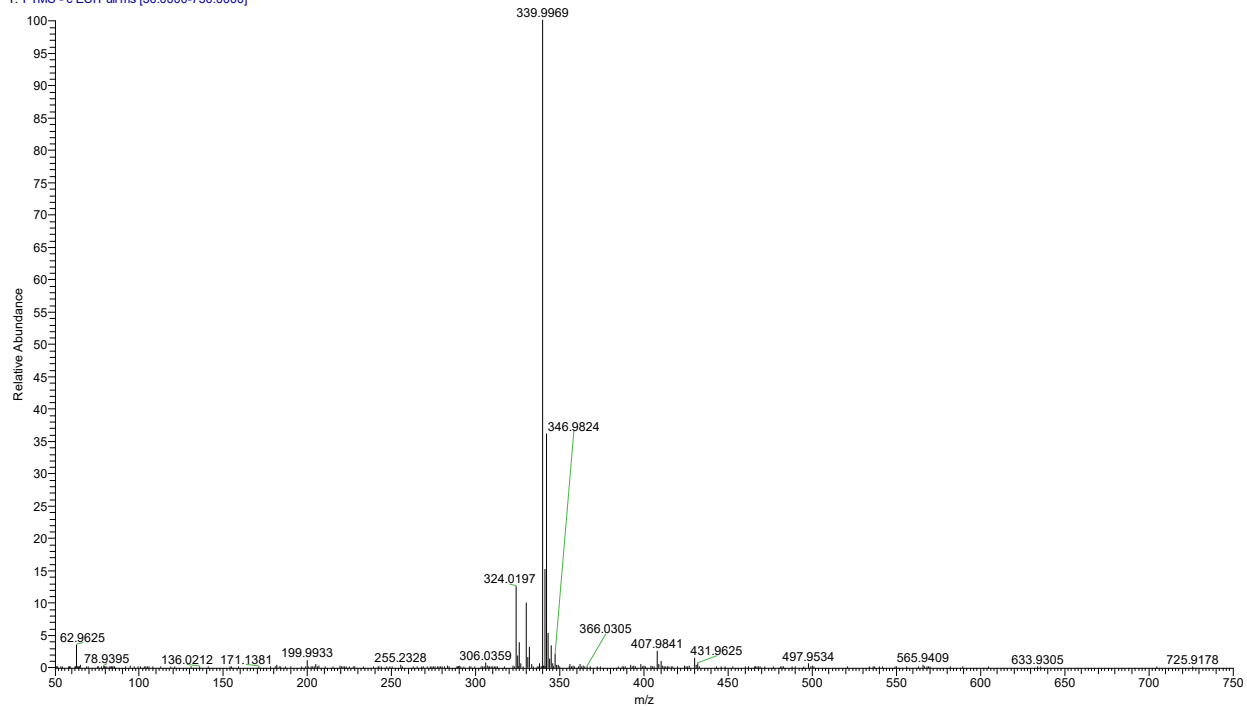
4 #14 RT: 0.16 AV: 1 NL: 7.75E8  
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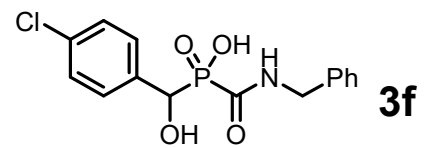
**Figure S37: LCMS of 3d**



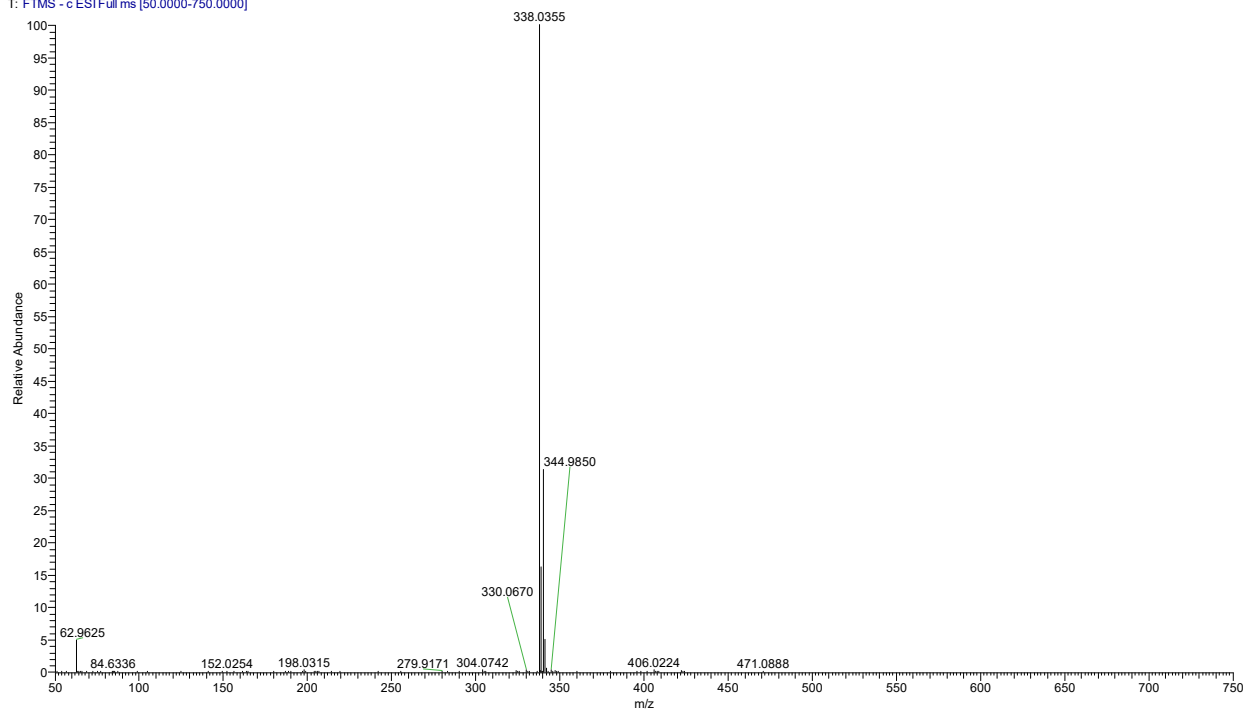
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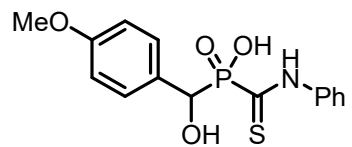
**Figure S38: LCMS of 3e**



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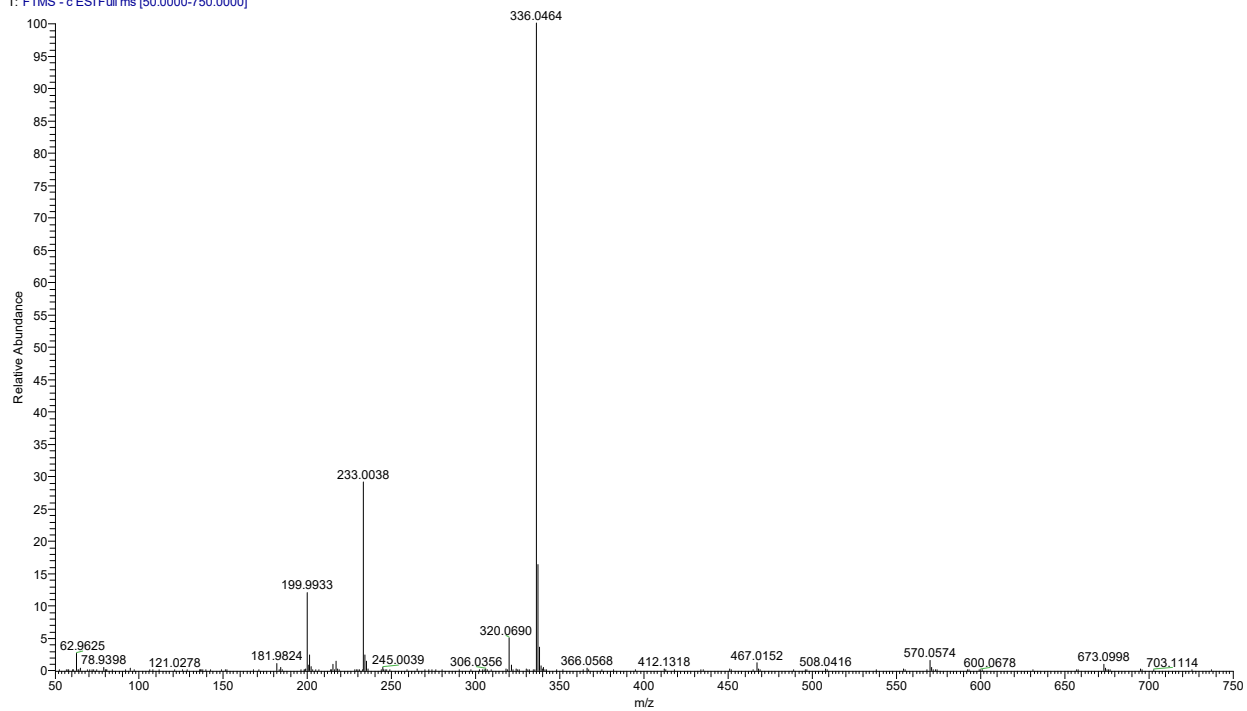


**Figure S39: LCMS of 3f**

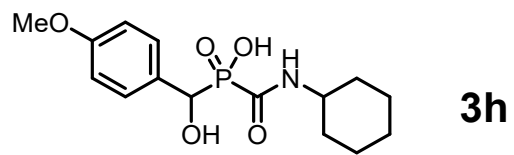


**3g**

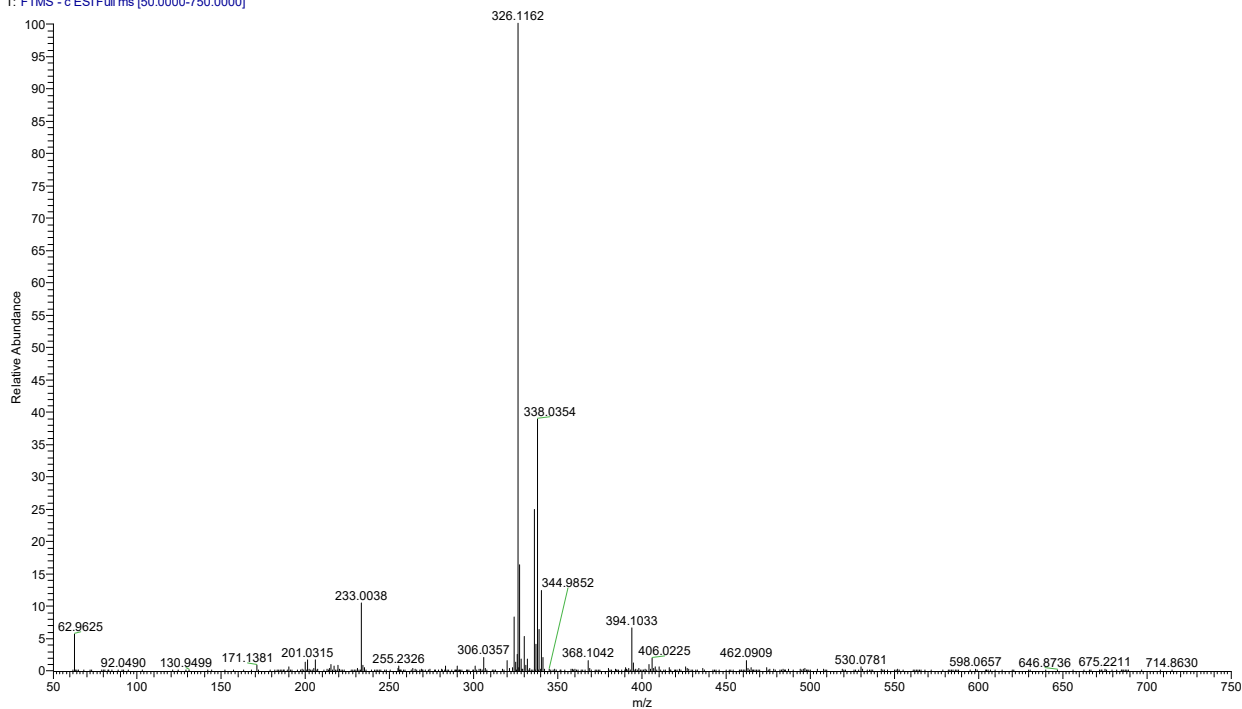
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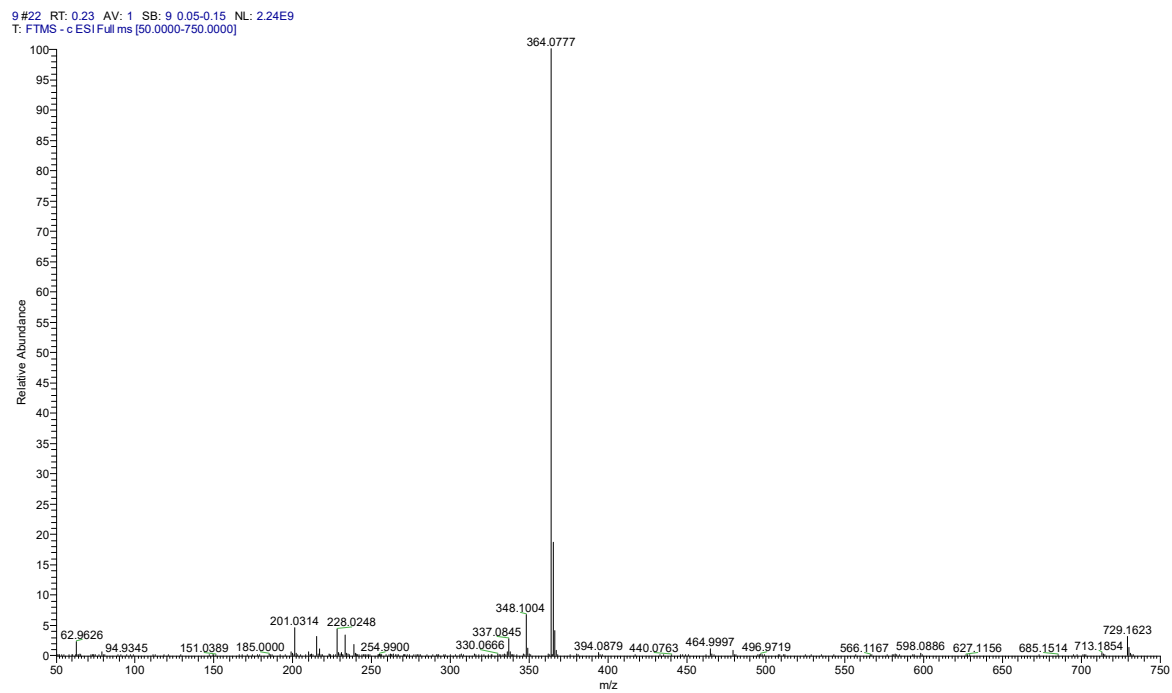
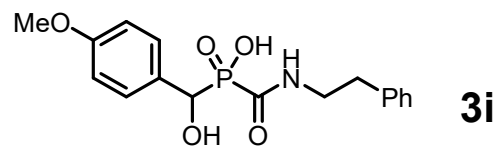
**Figure S40: LCMS of 3g**



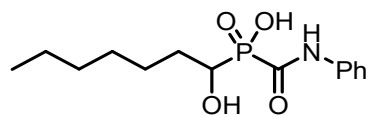
8 #24 RT: 0.26 AV: 1 SB: 9 0.05-0.15 NL: 5.17E7  
T: FTMS - c ESI Full ms [50.0000-750.0000]



**Figure S41: LCMS of 3h**

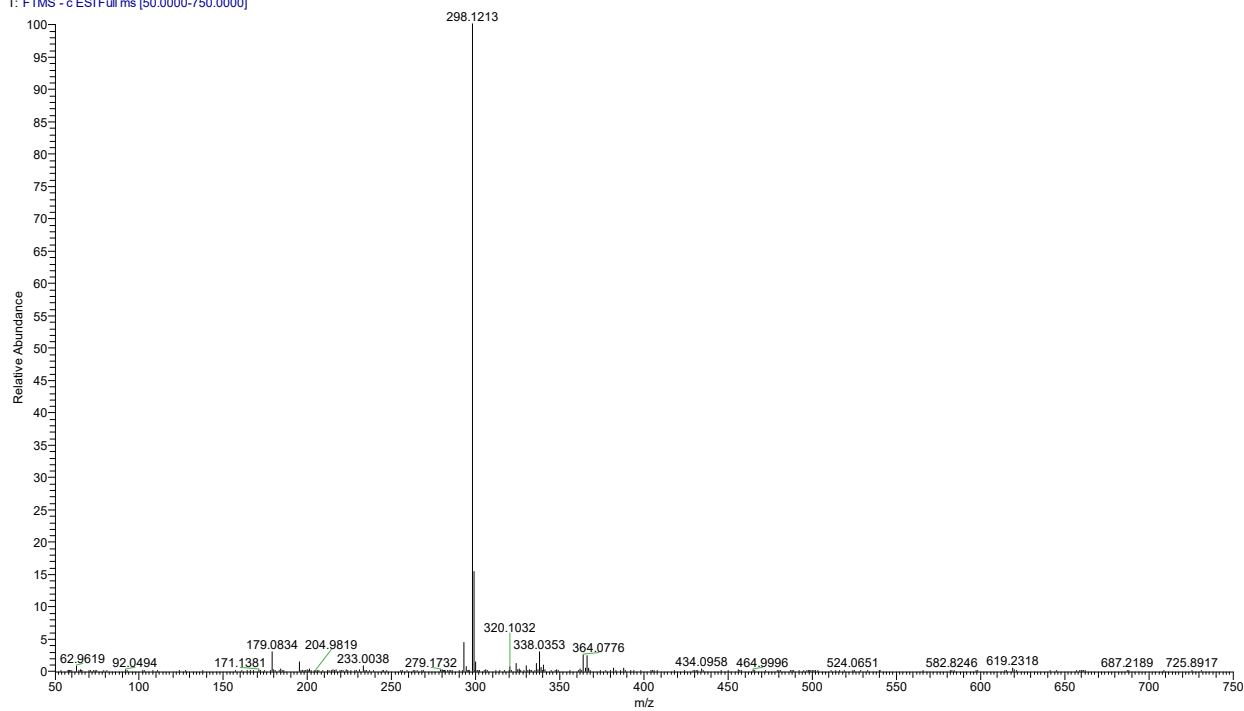


**Figure S42: LCMS of 3i**

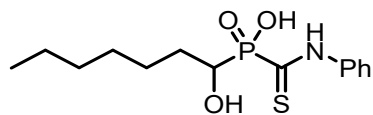


**3j**

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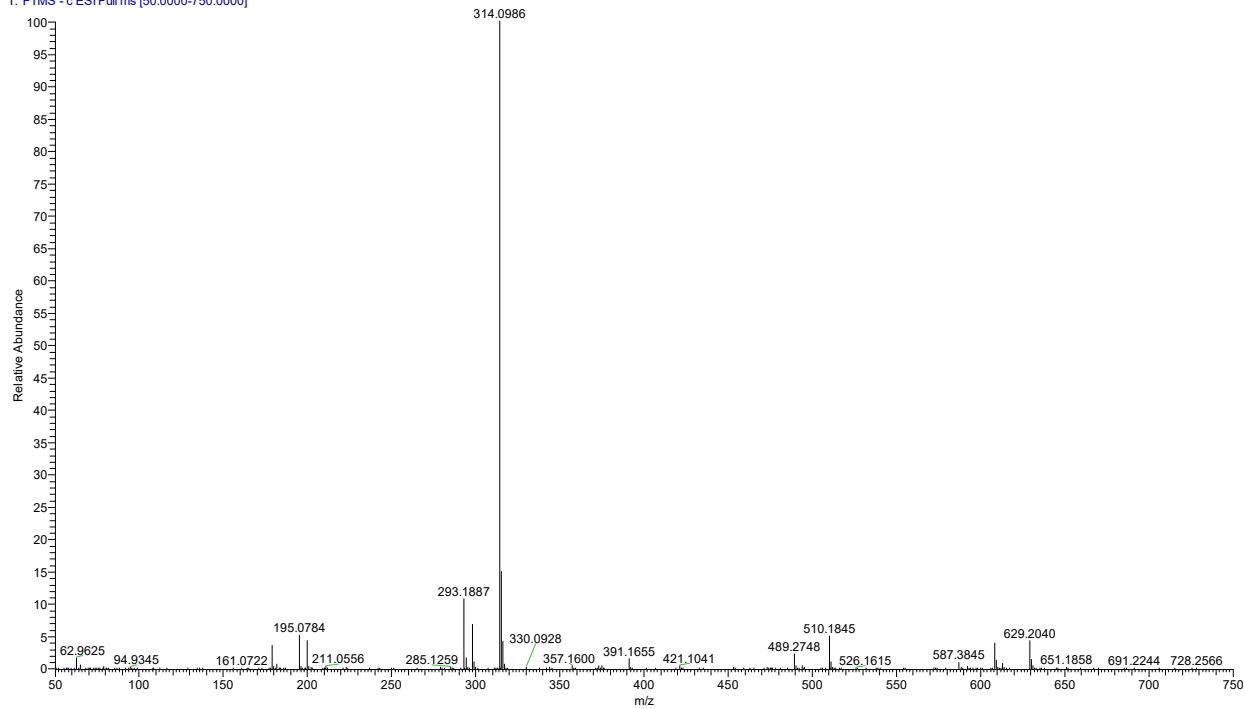


**Figure S43: LCMS of 3j**



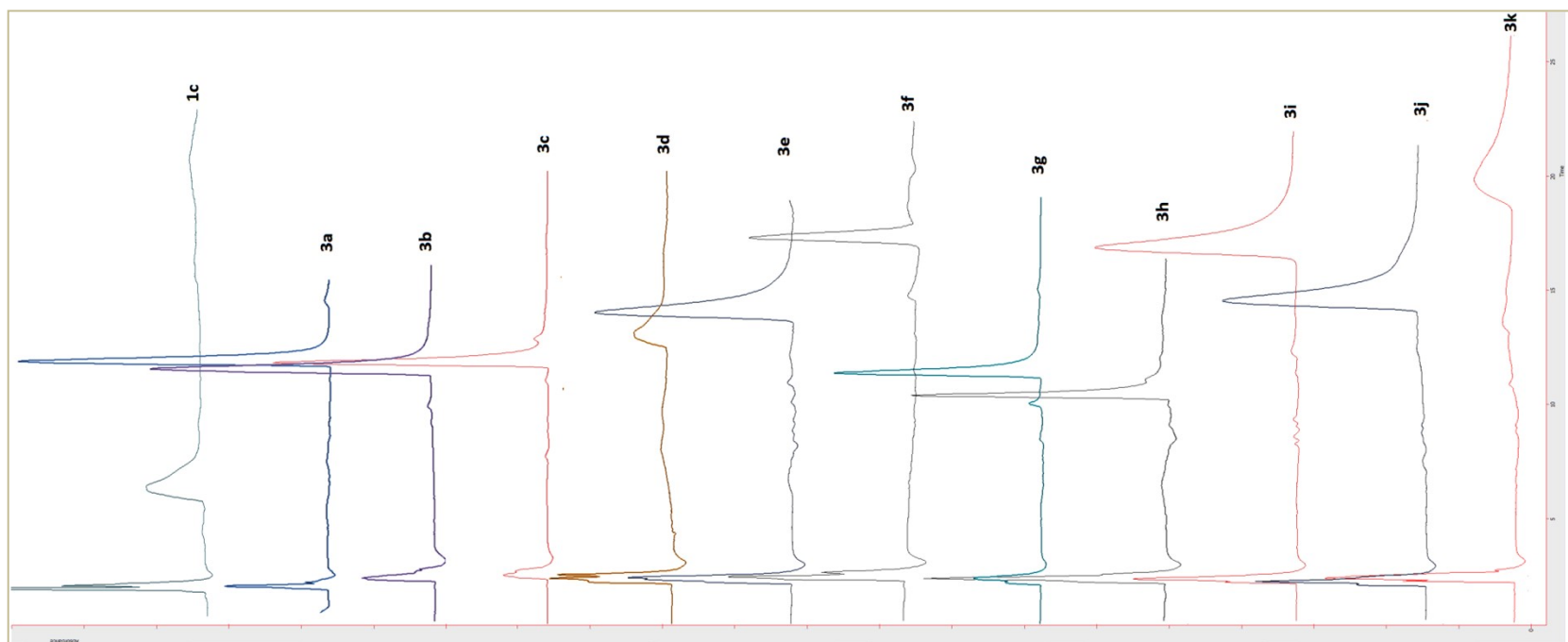
**3k**

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**Figure S44: LCMS of 3k**





**Figure S45:** HPLC-UV chromatograms of 50 mg L<sup>-1</sup> solutions of the compounds