

Supporting Information
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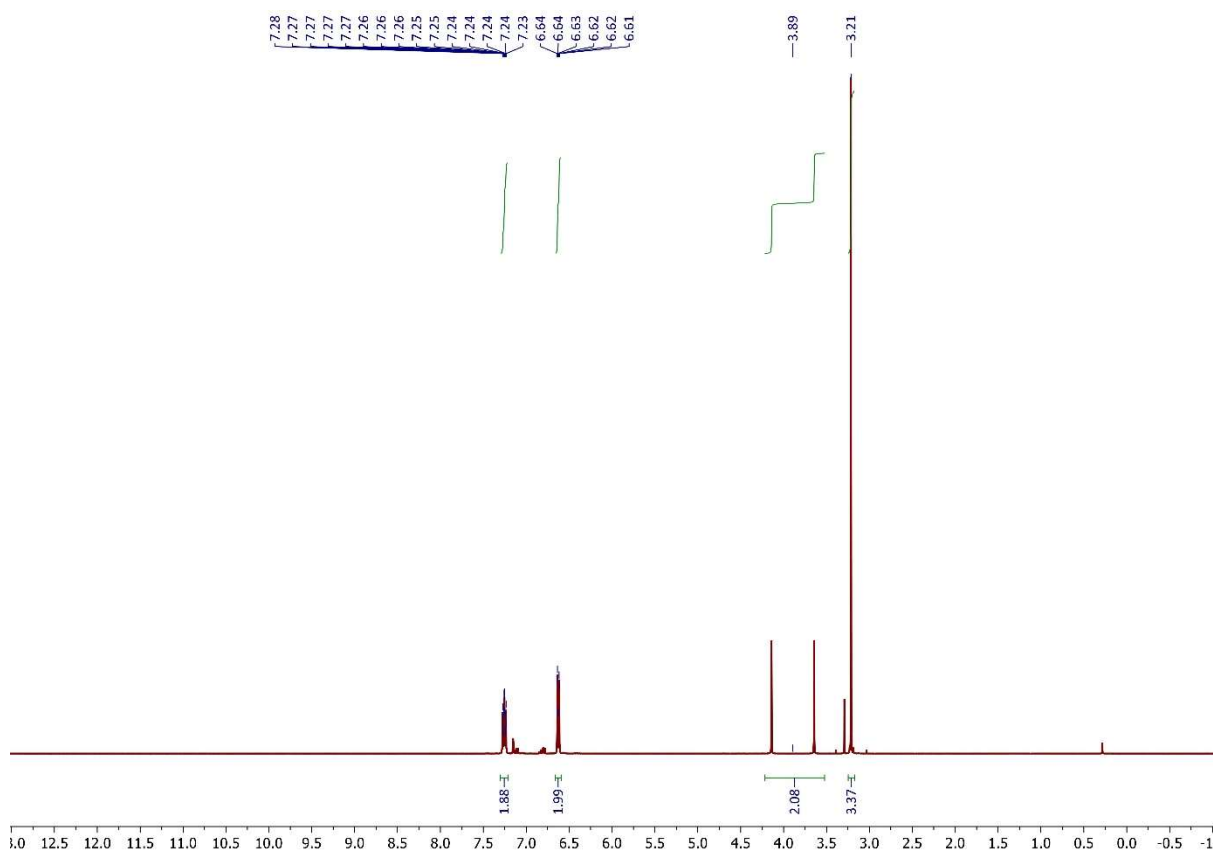
Supporting Information for
Convenient and Scalable Synthesis of Aryldichlorophosphines and Primary Arylphosphines via
Perthiophosphonic Anhydrides

Daniel Picthall, Brian A. Surgenor, Petr Kilian*

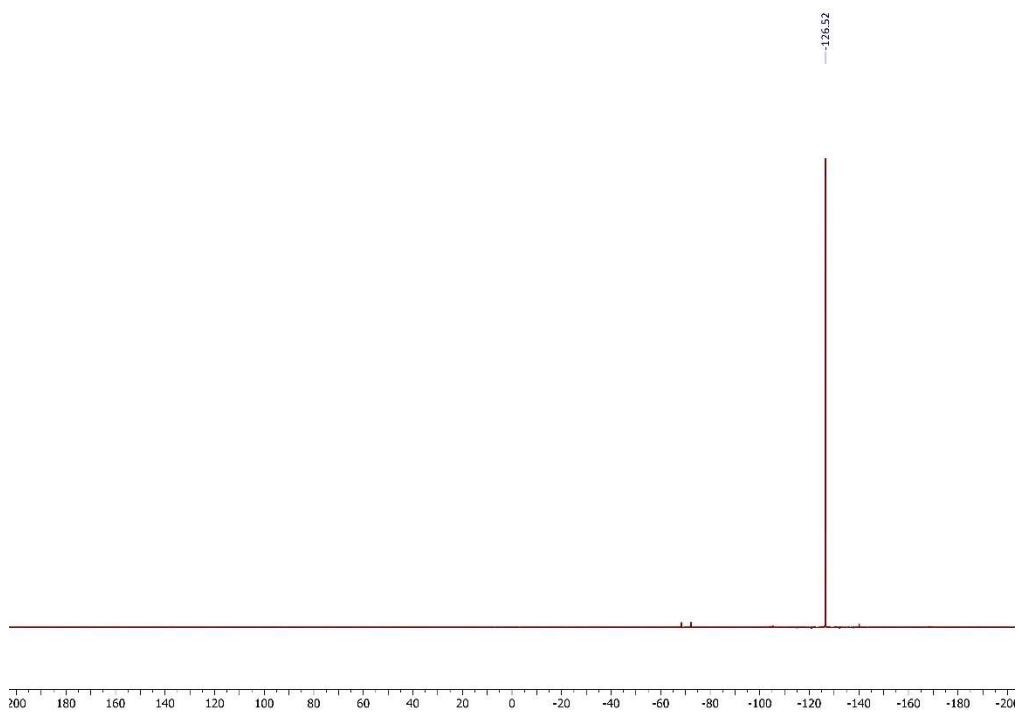
NMR Spectra of Products

2A:

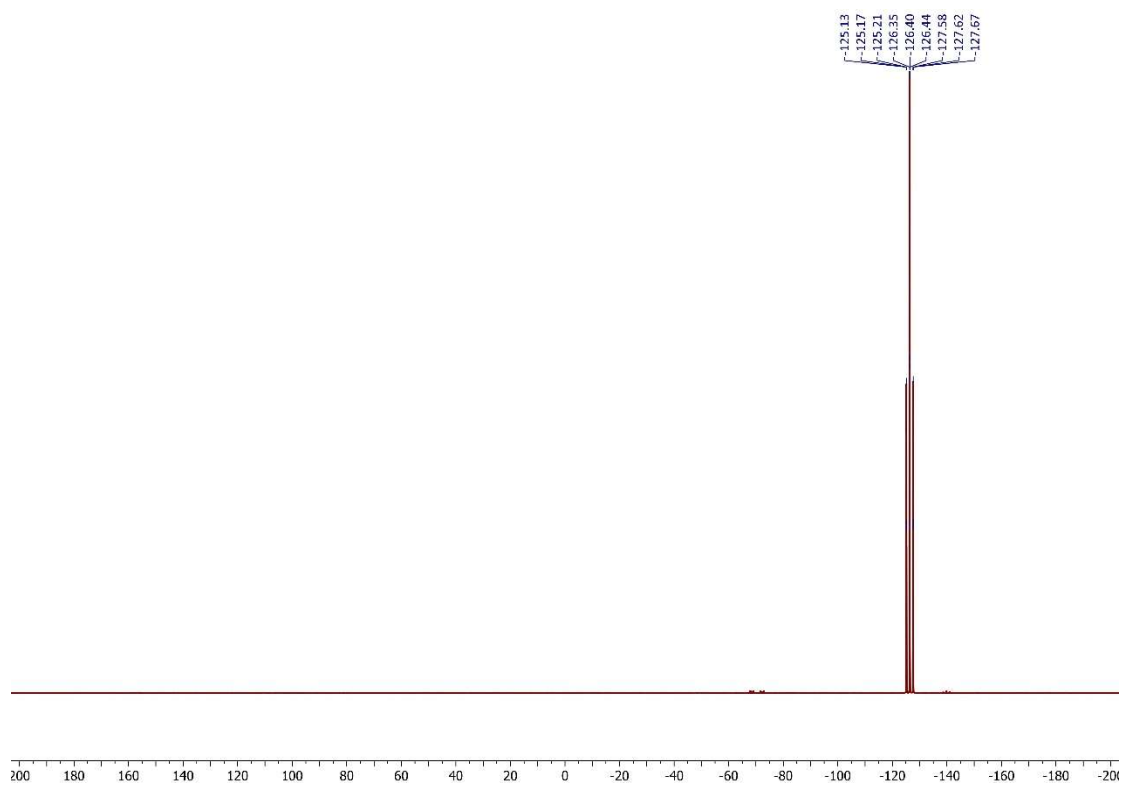
^1H :



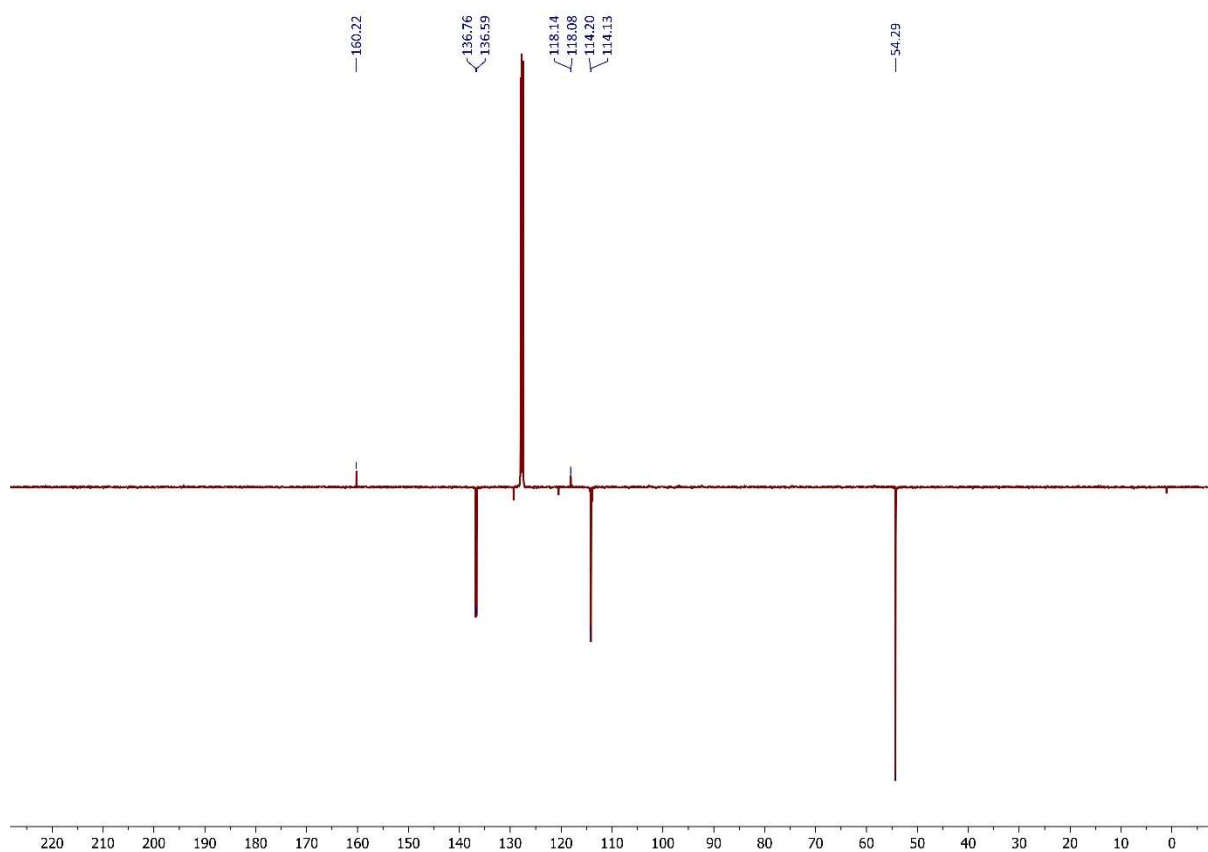
$^{31}\text{P}\{^1\text{H}\}$:



^{31}P :

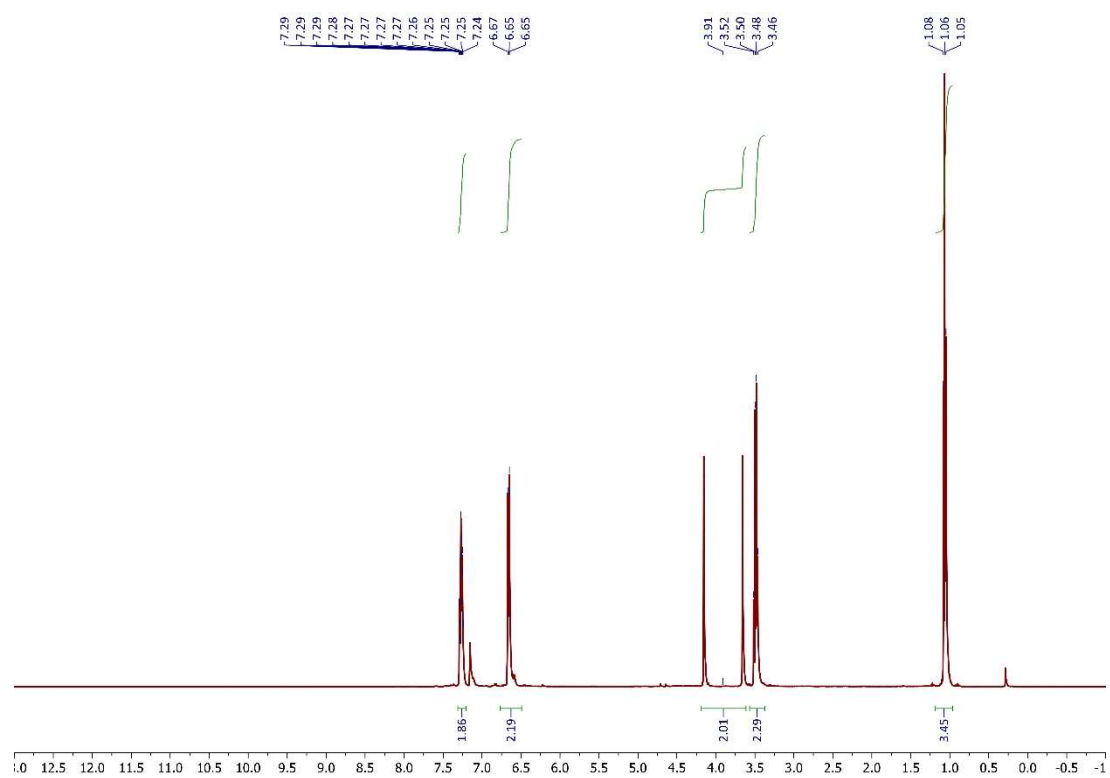


$^{13}\text{C}\{^1\text{H}\}$:

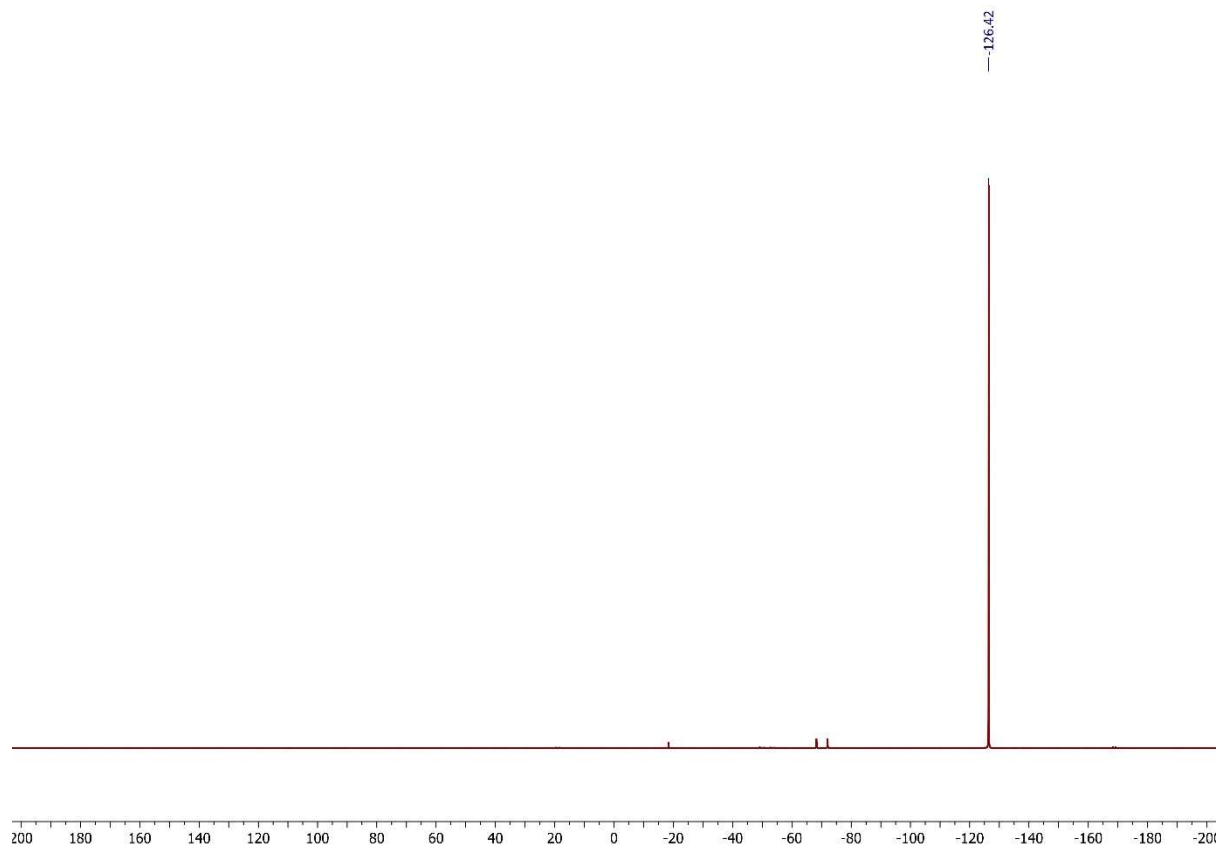


2B:

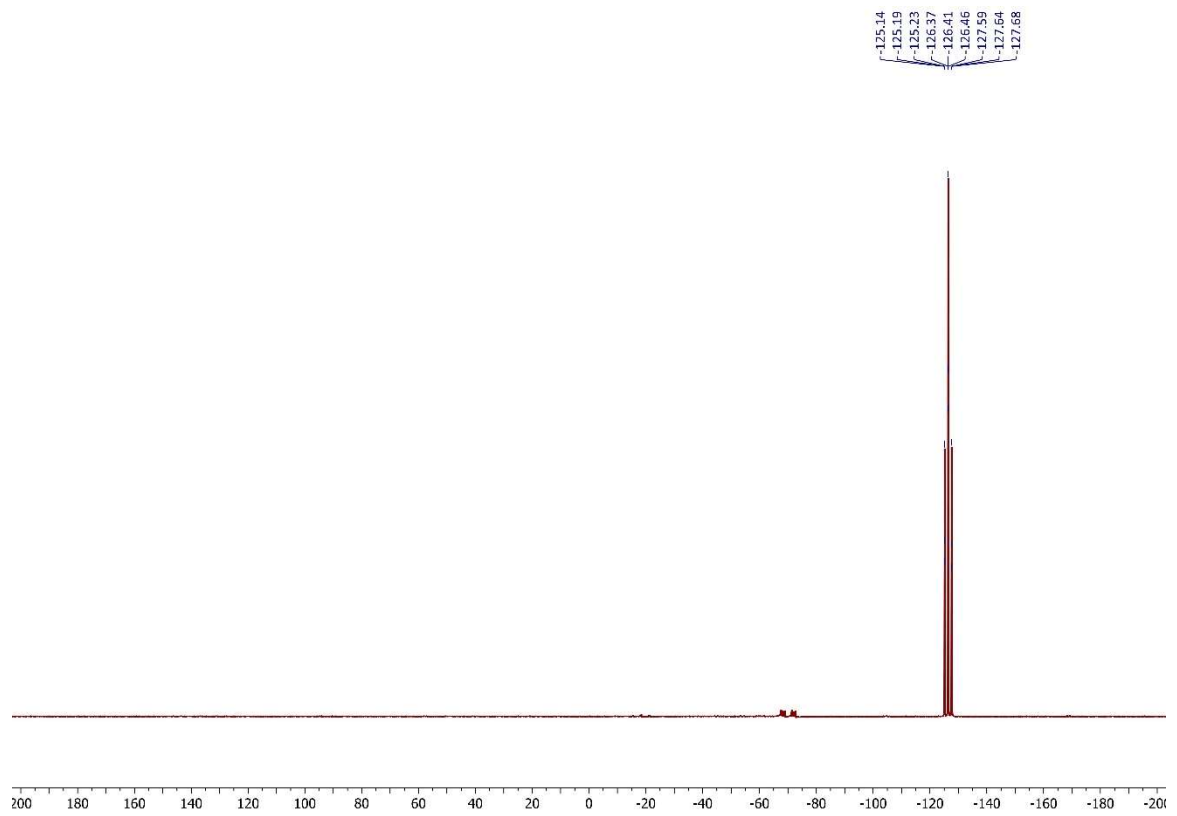
^1H :



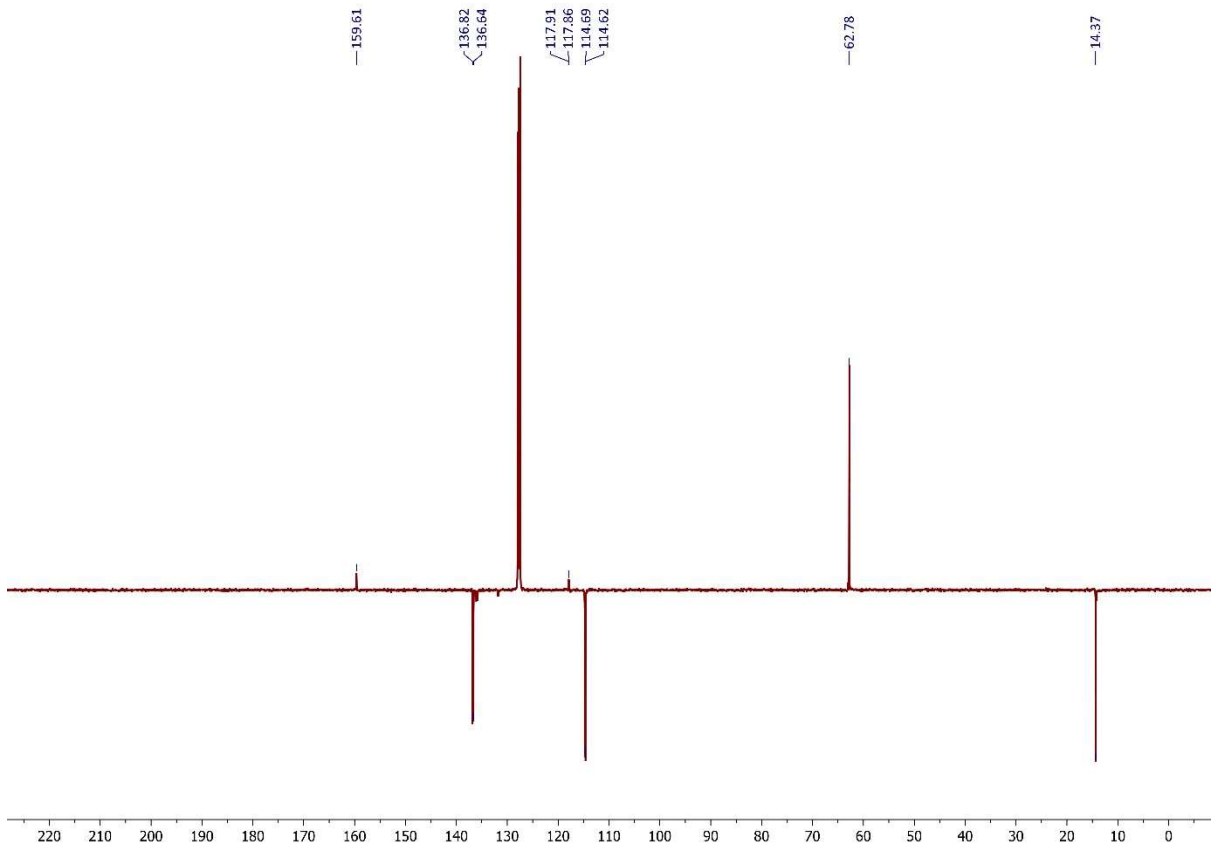
$^{31}\text{P}\{^1\text{H}\}$:



^{31}P :

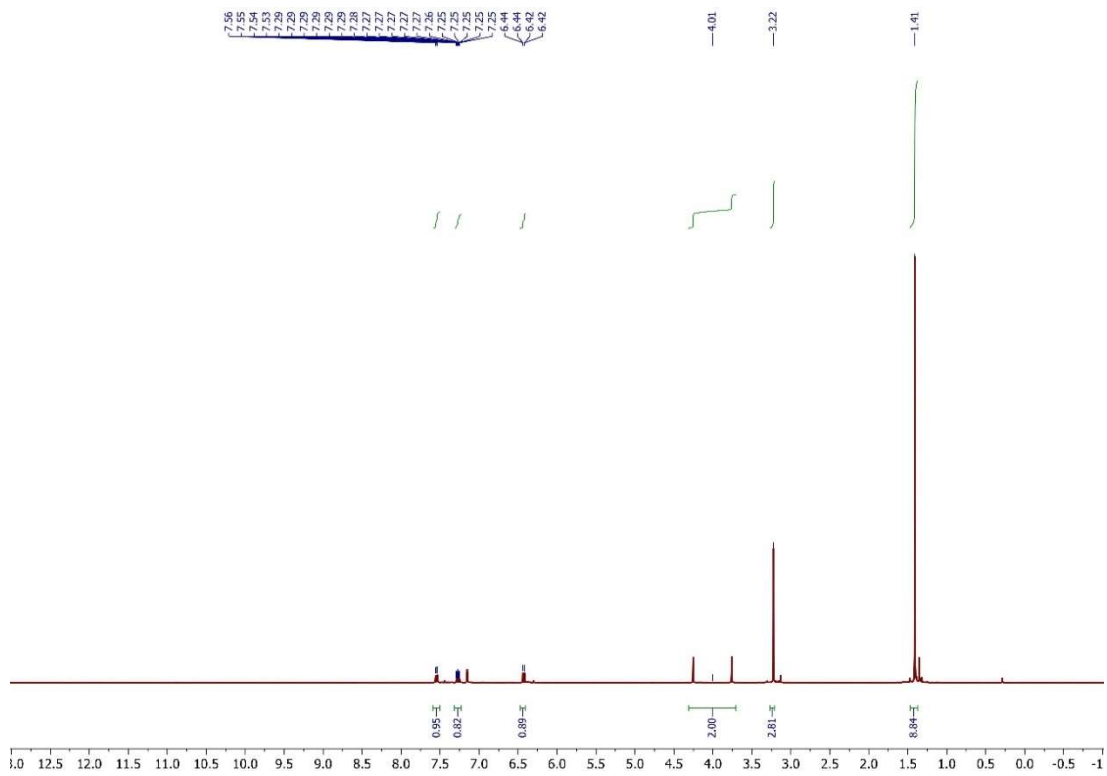


$^{13}\text{C}\{^1\text{H}\}$:

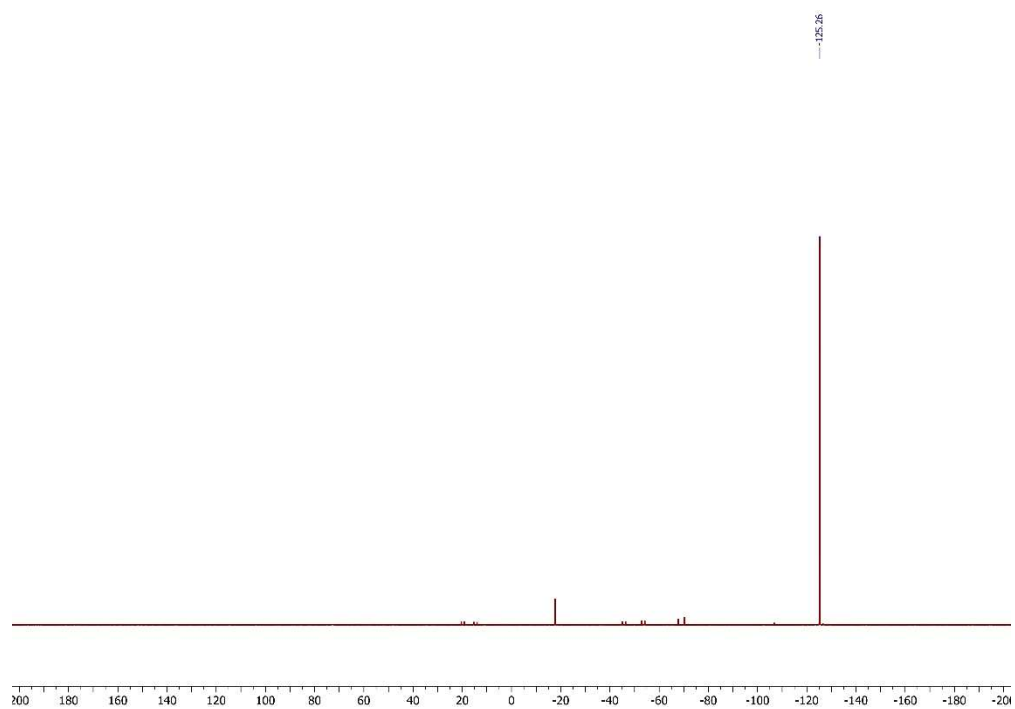


2C:

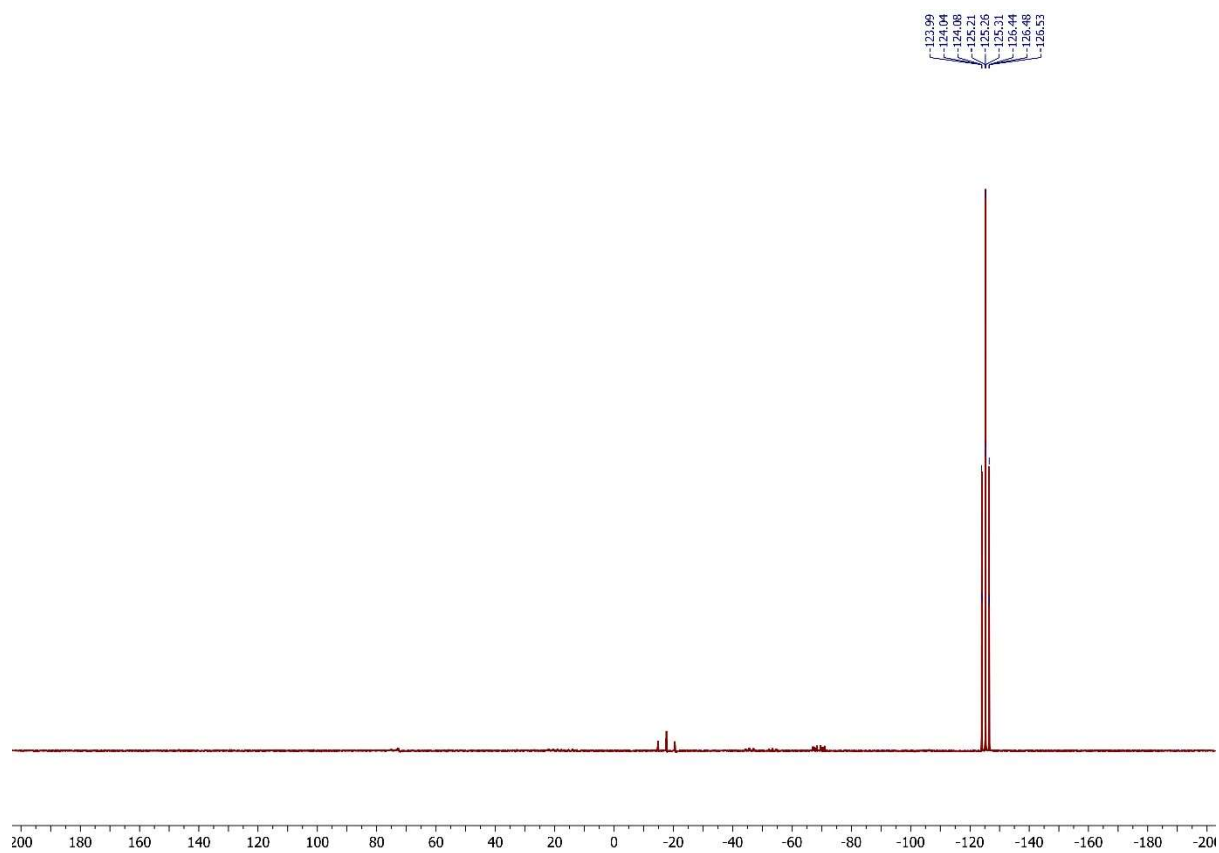
^1H :



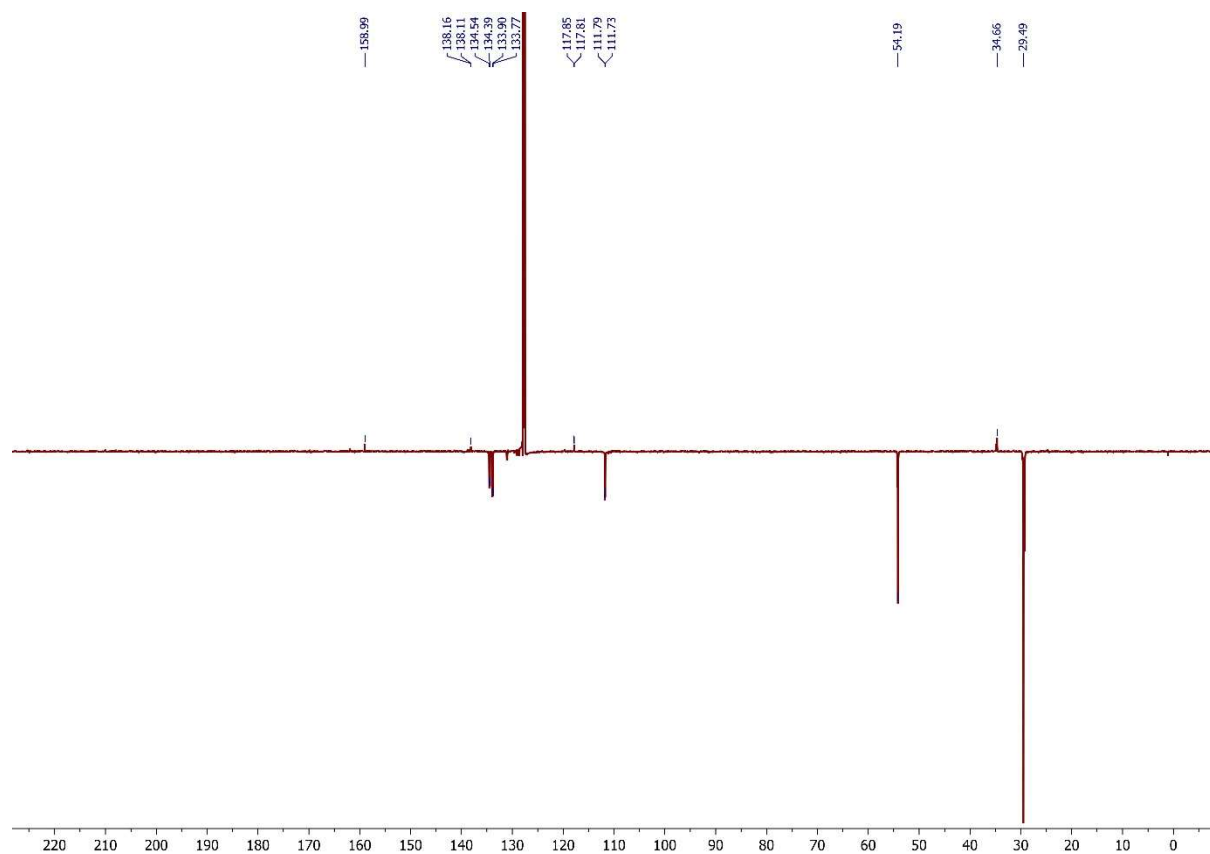
$^{31}\text{P}\{^1\text{H}\}$:



^{31}P :

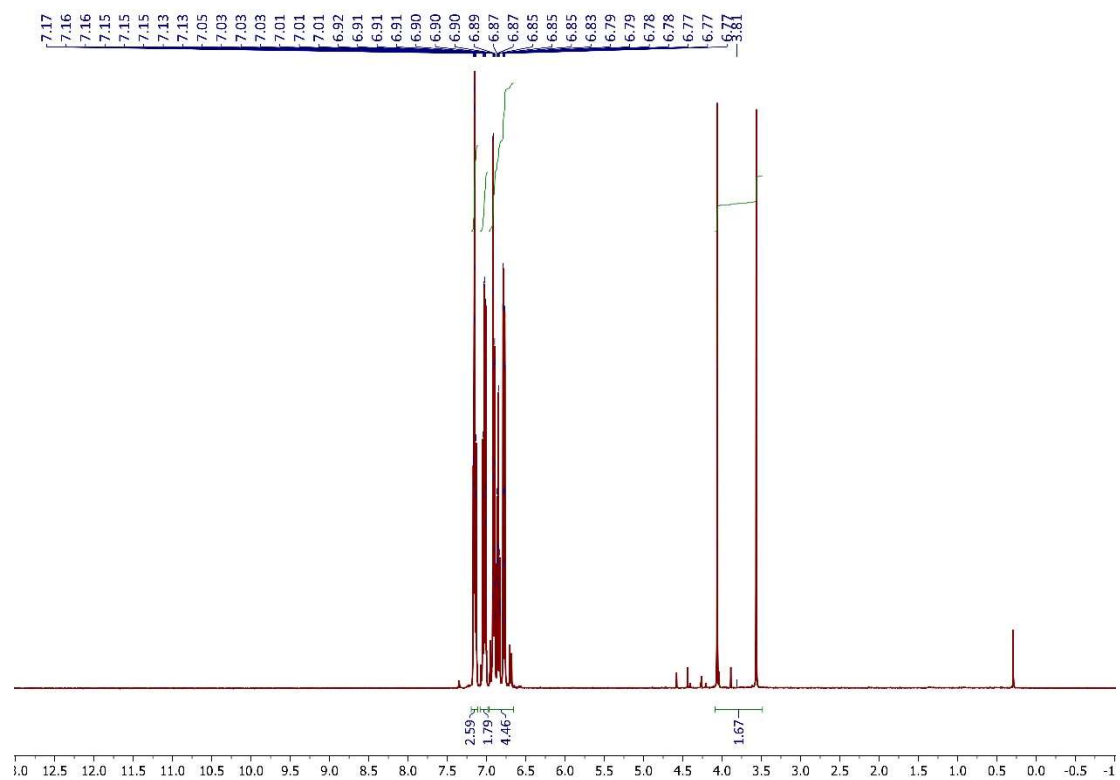


$^{13}\text{C}\{^1\text{H}\}$:

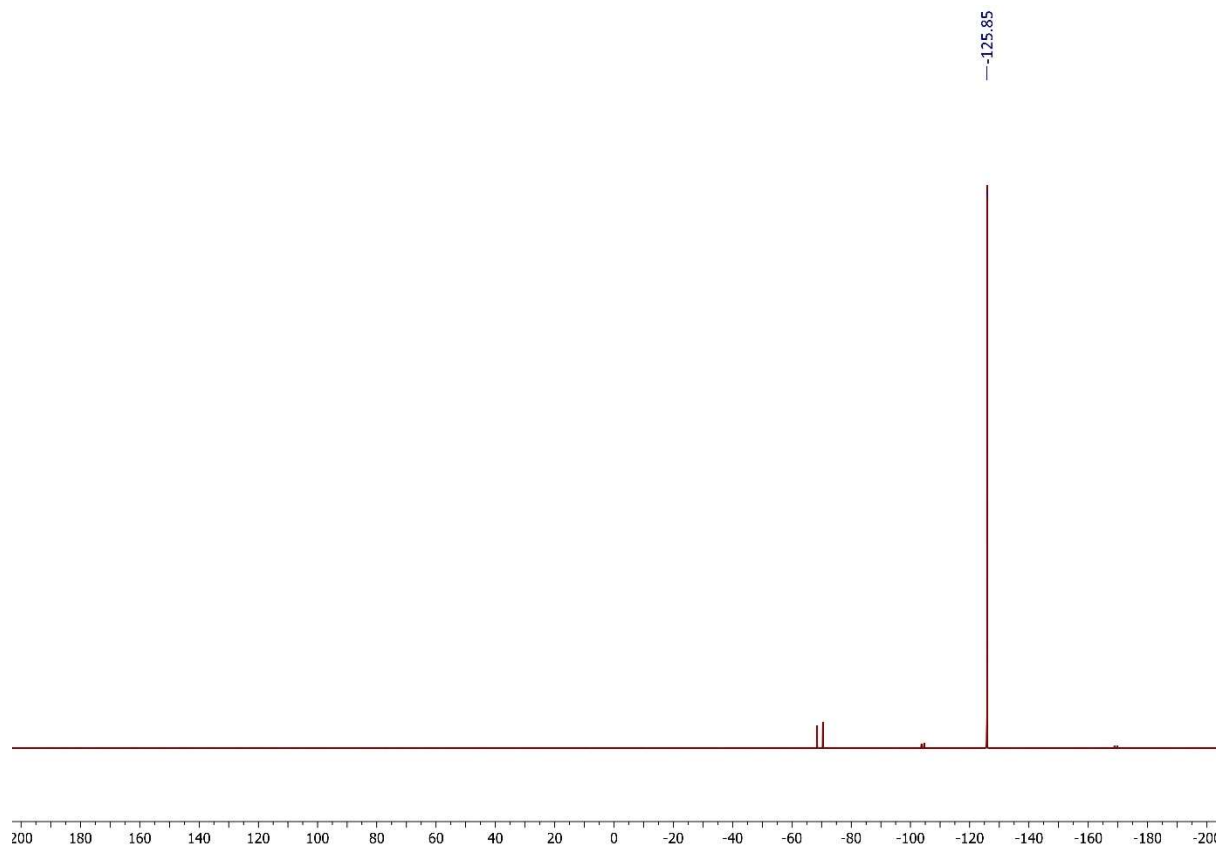


2D:

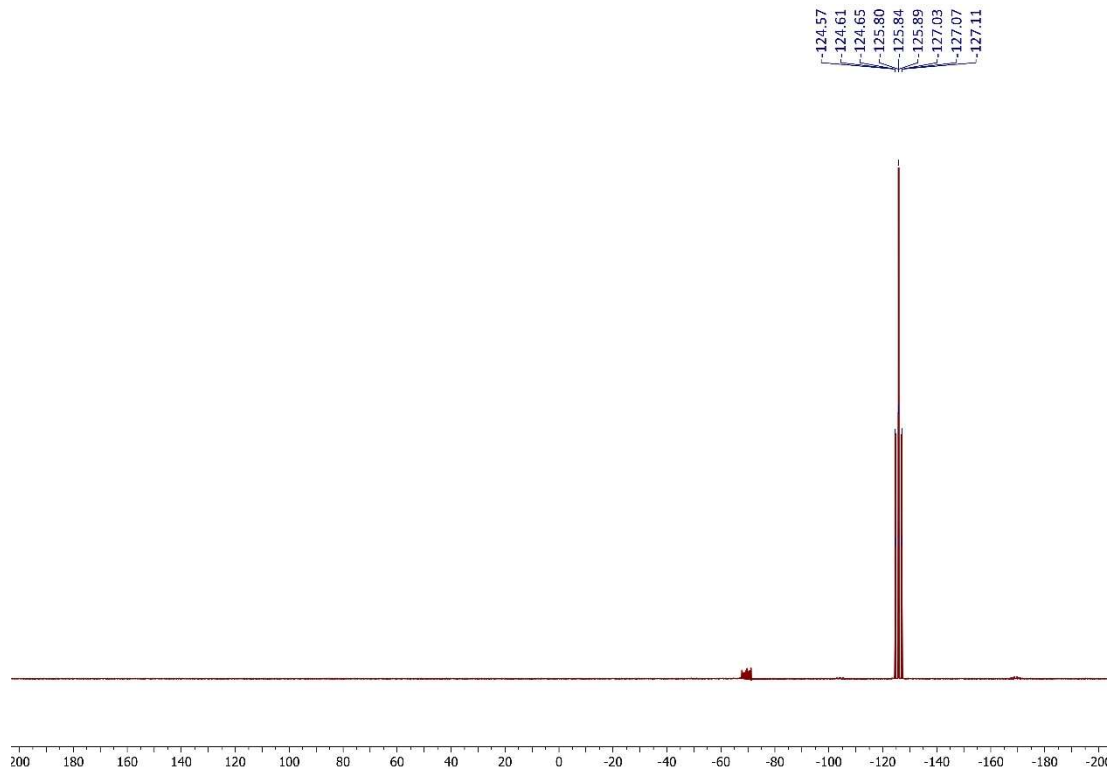
^1H :



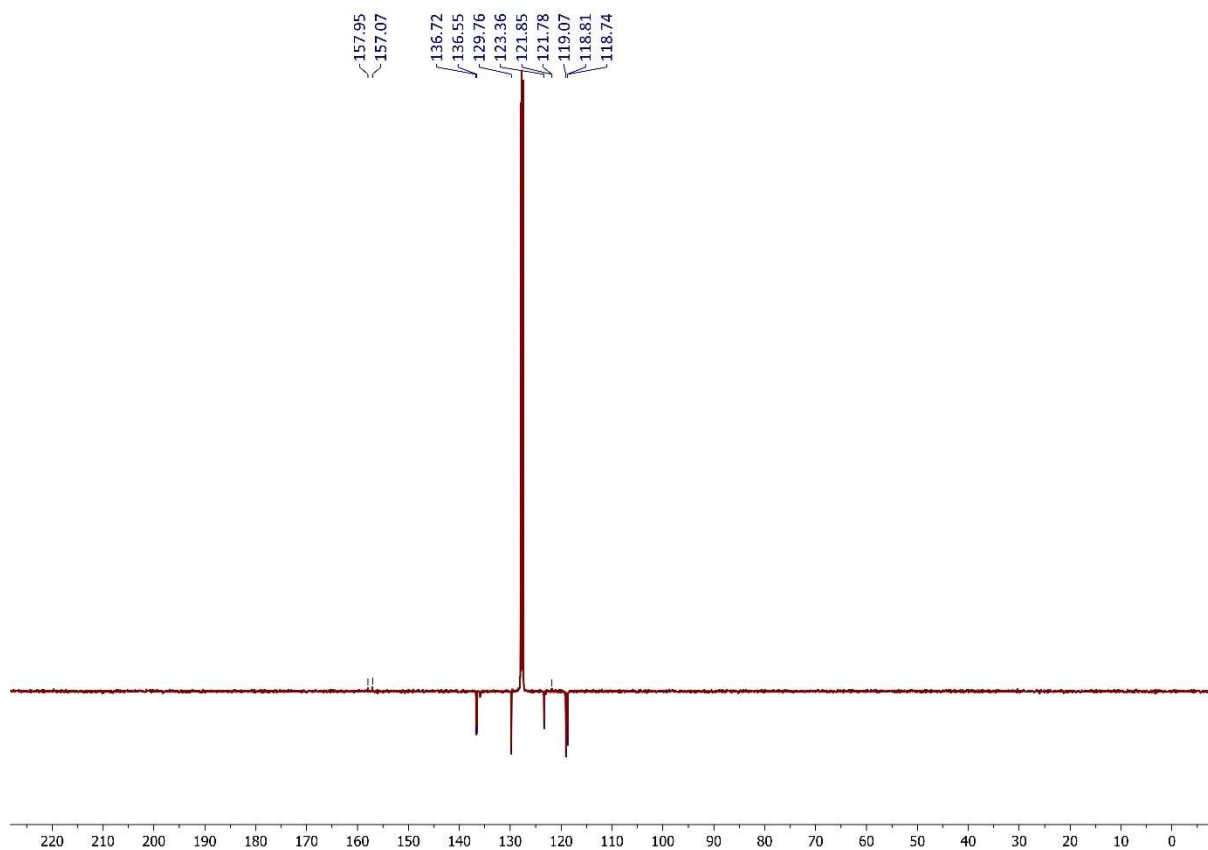
$^{31}\text{P}\{^1\text{H}\}$:



^{31}P :

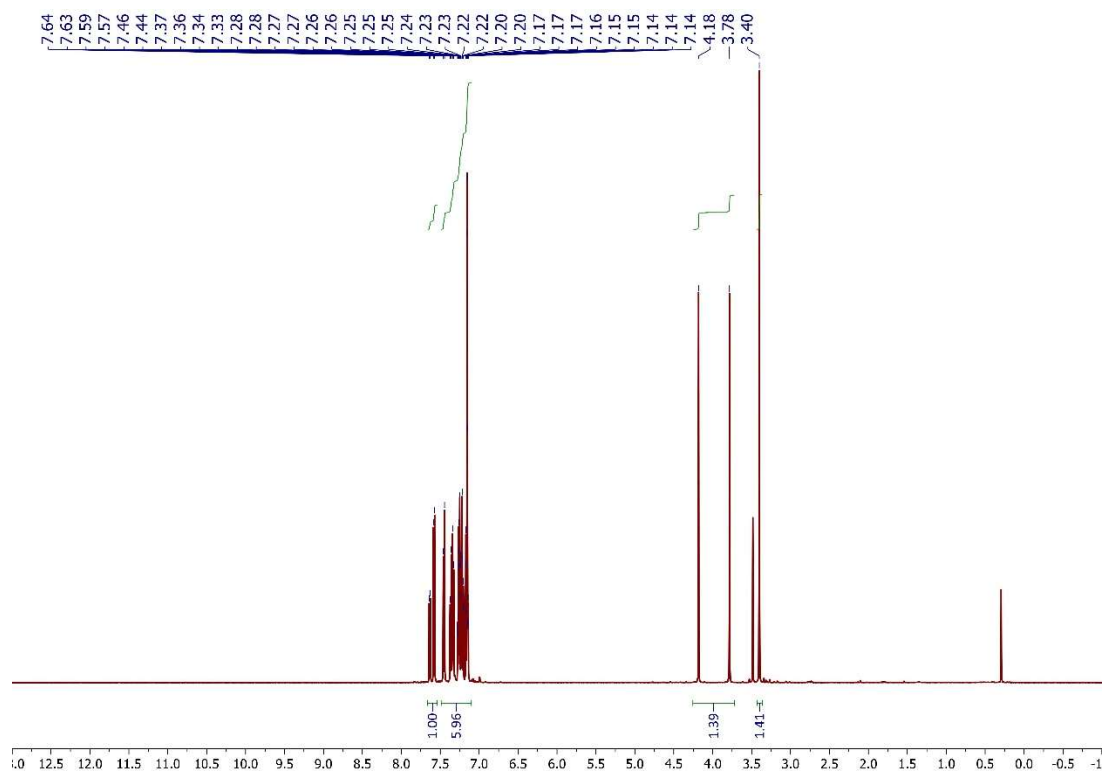


¹³C:

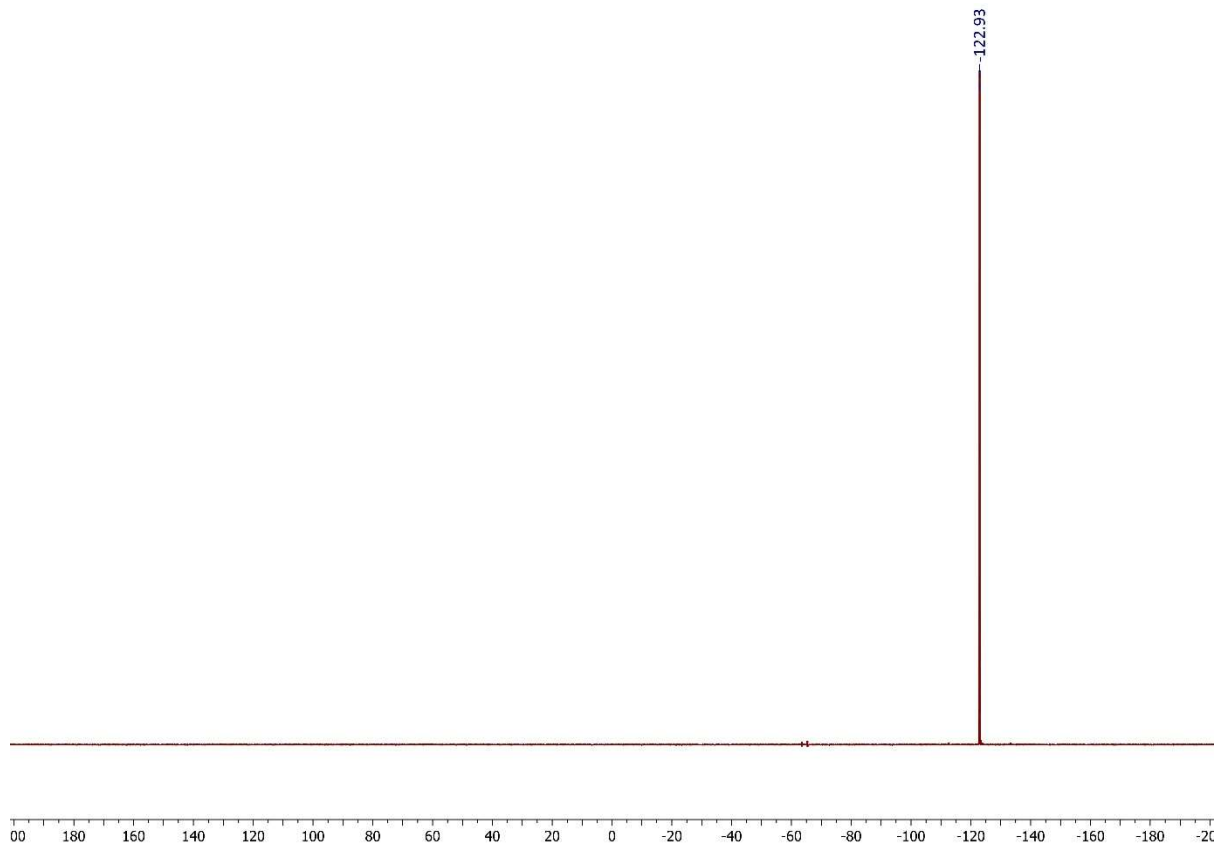


2E:

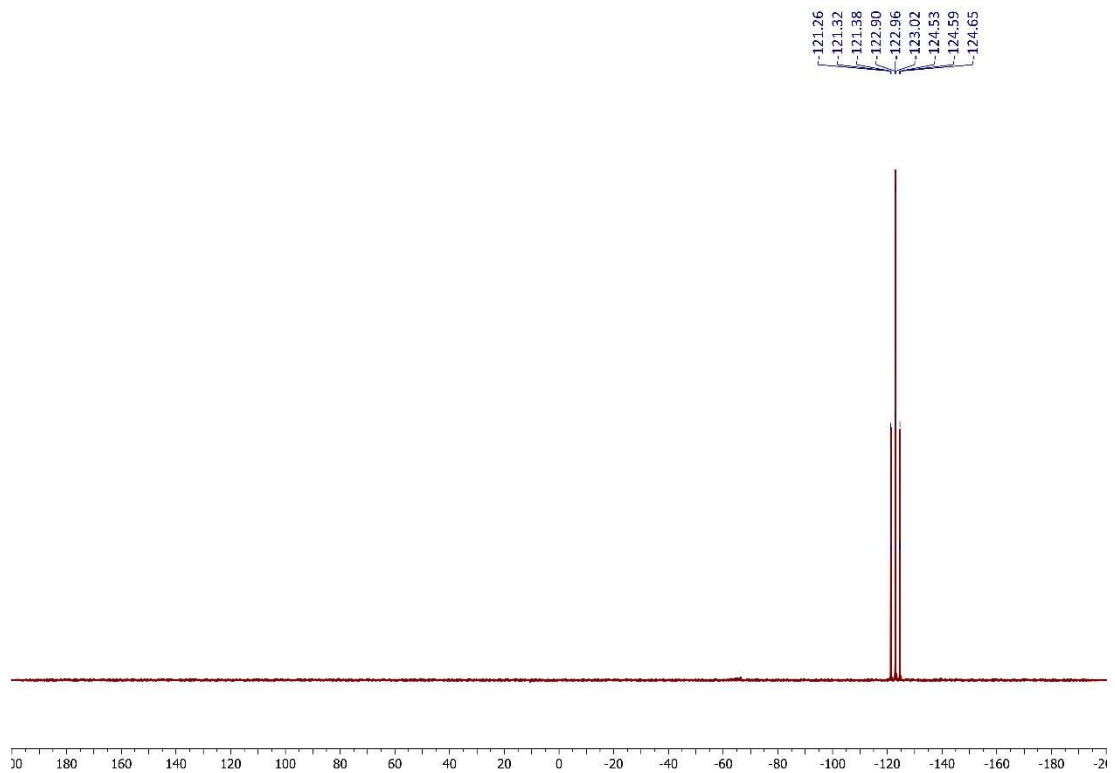
¹H:



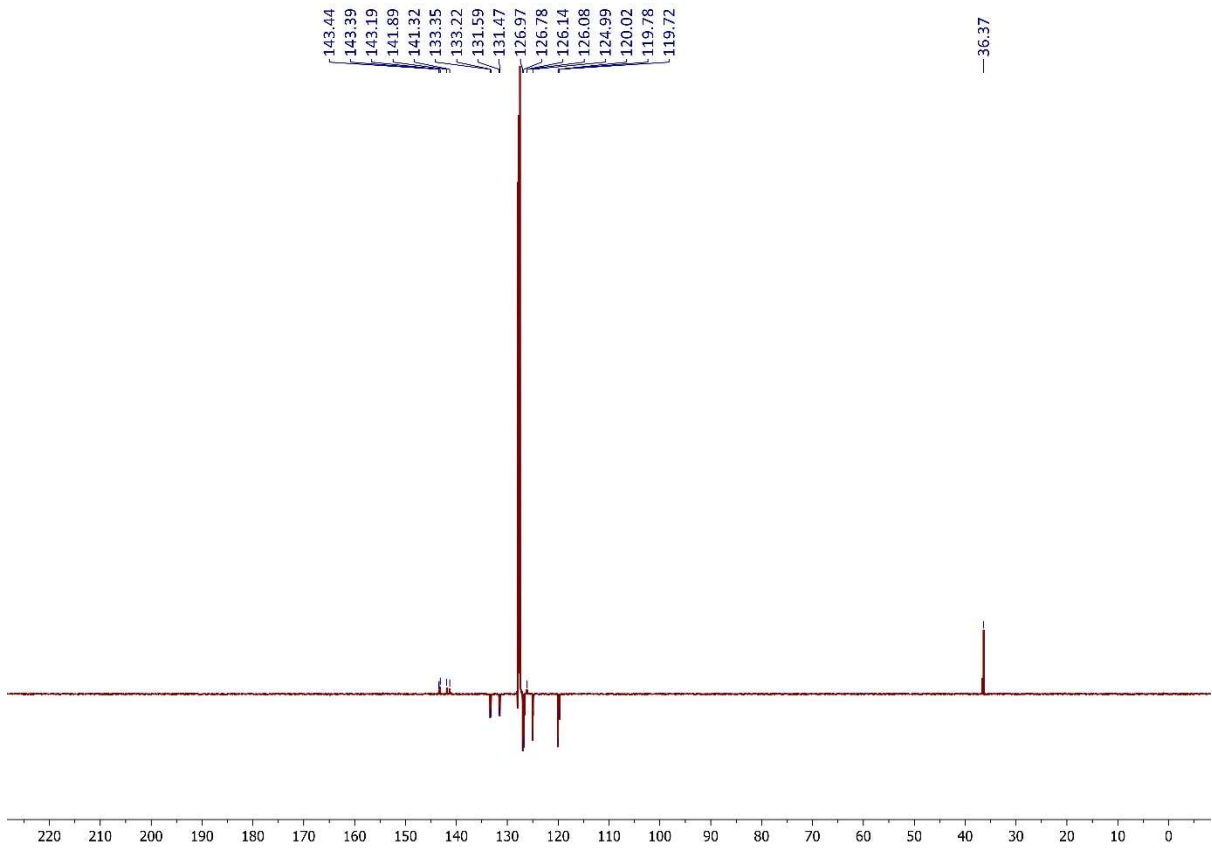
$^{31}\text{P}\{^1\text{H}\}$:



^{31}P :

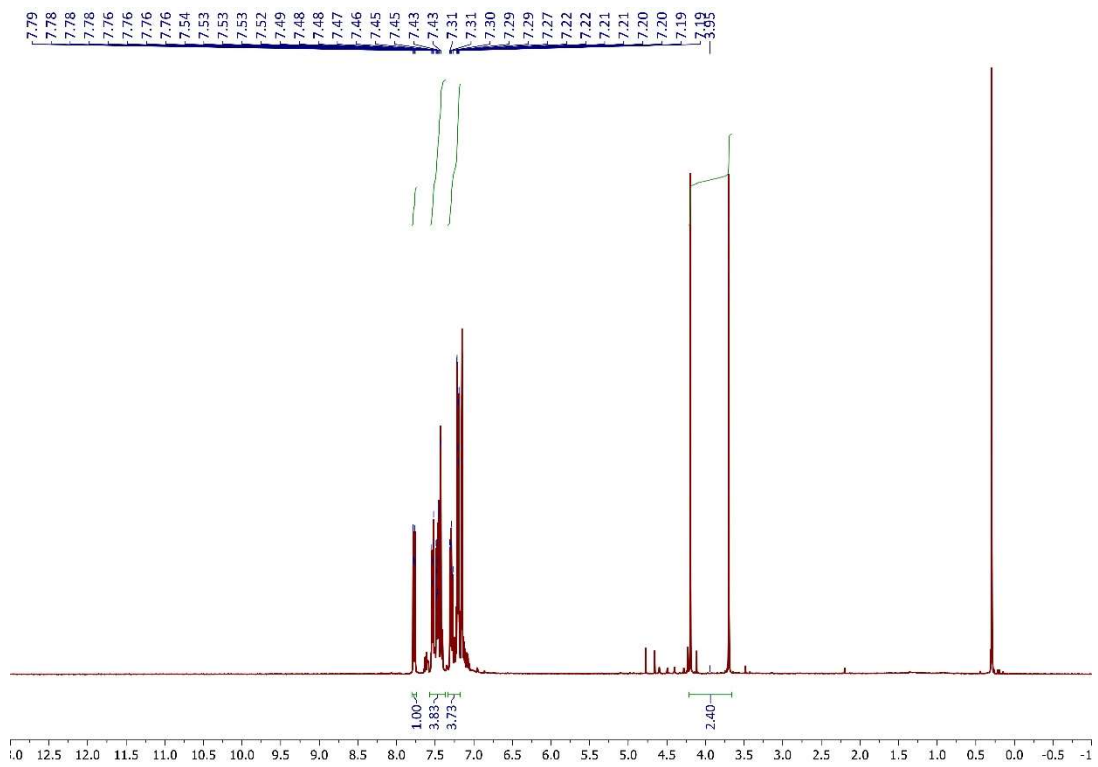


$^{13}\text{C}\{^1\text{H}\}$:

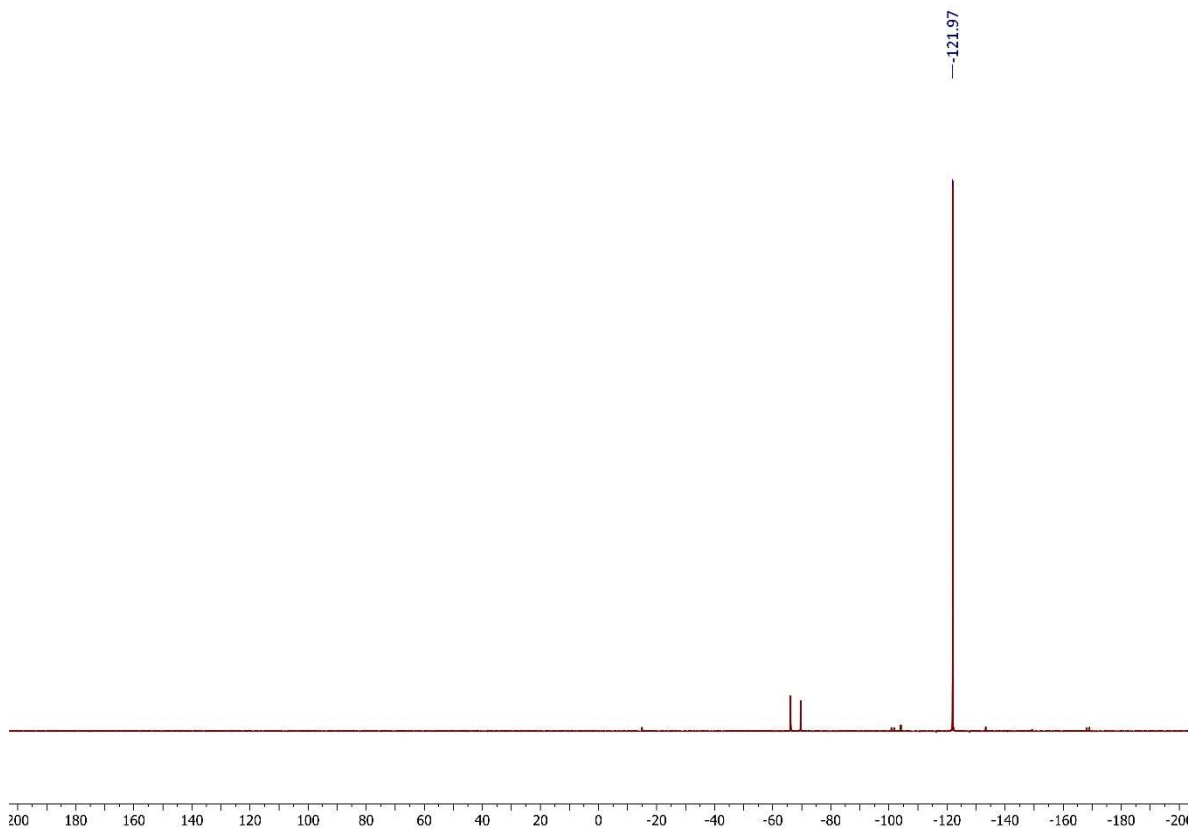


2F:

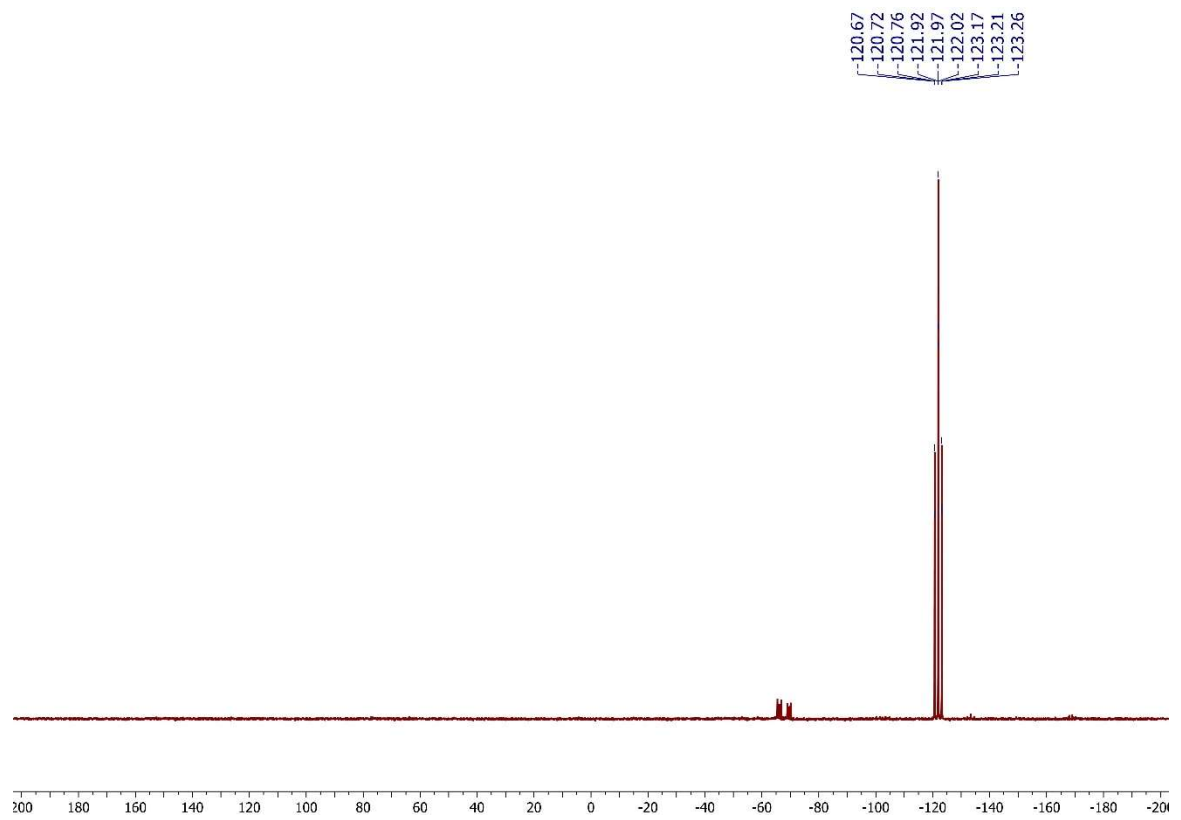
^1H :



$^{31}\text{P}\{^1\text{H}\}$:

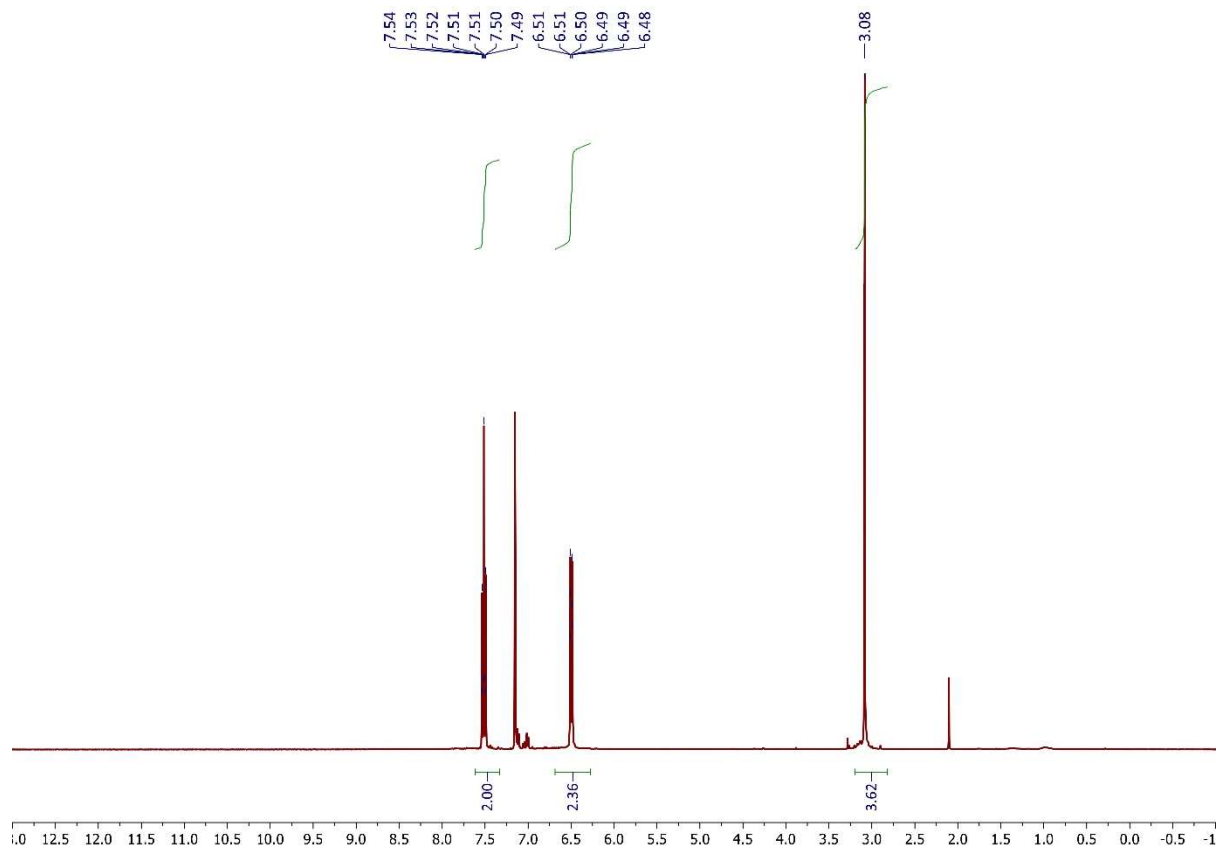


^{31}P :

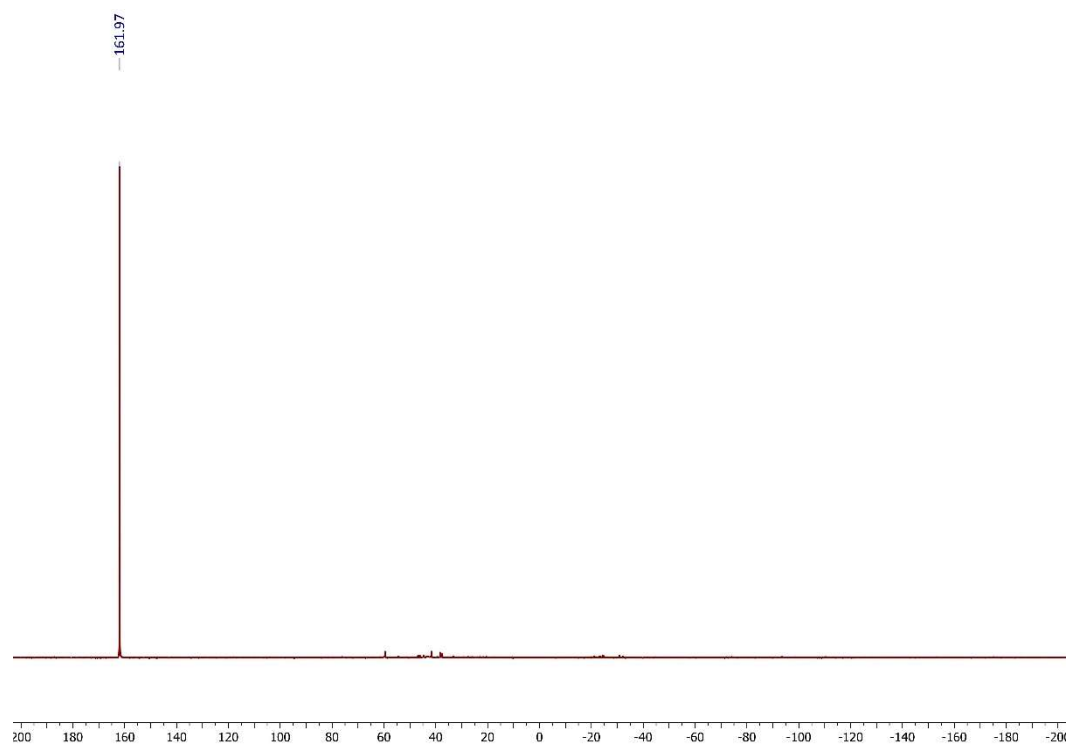


3A:

^1H :

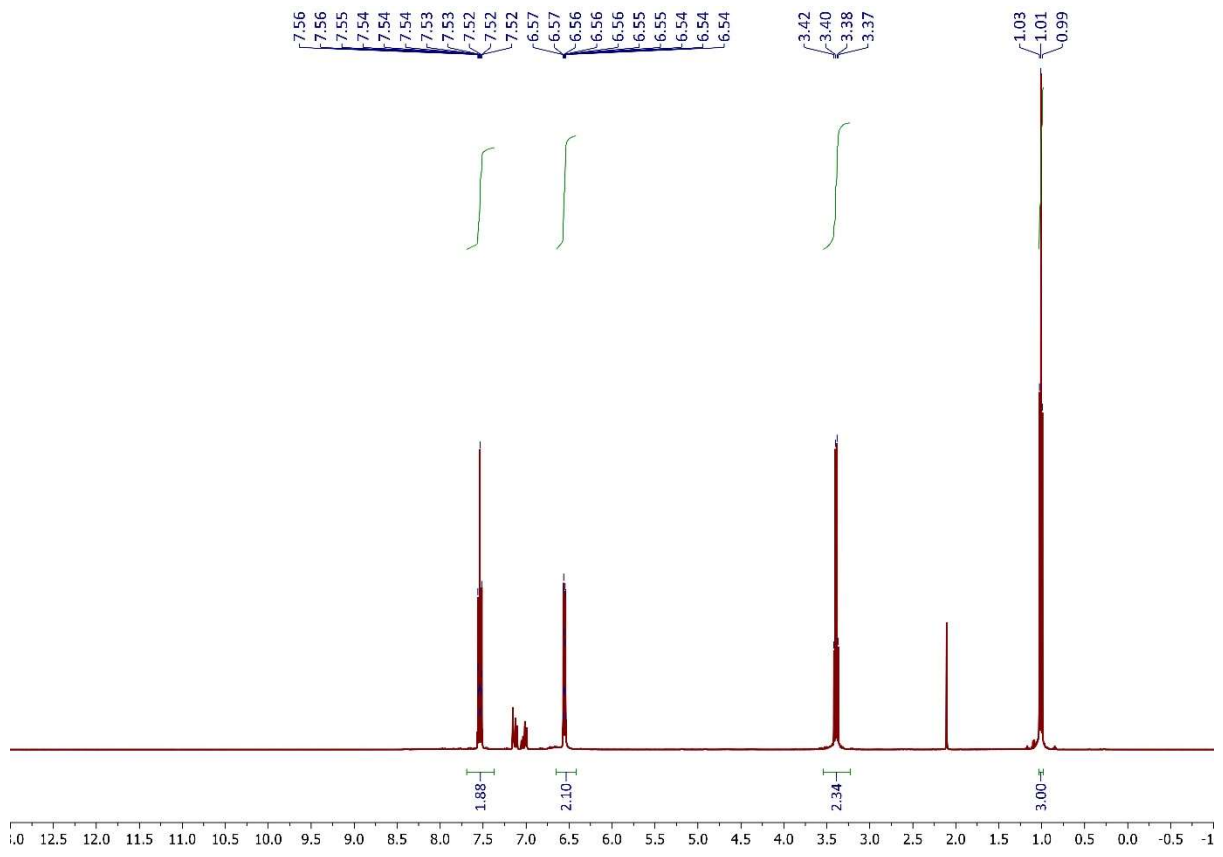


$^{31}\text{P}\{^1\text{H}\}$:



3B:

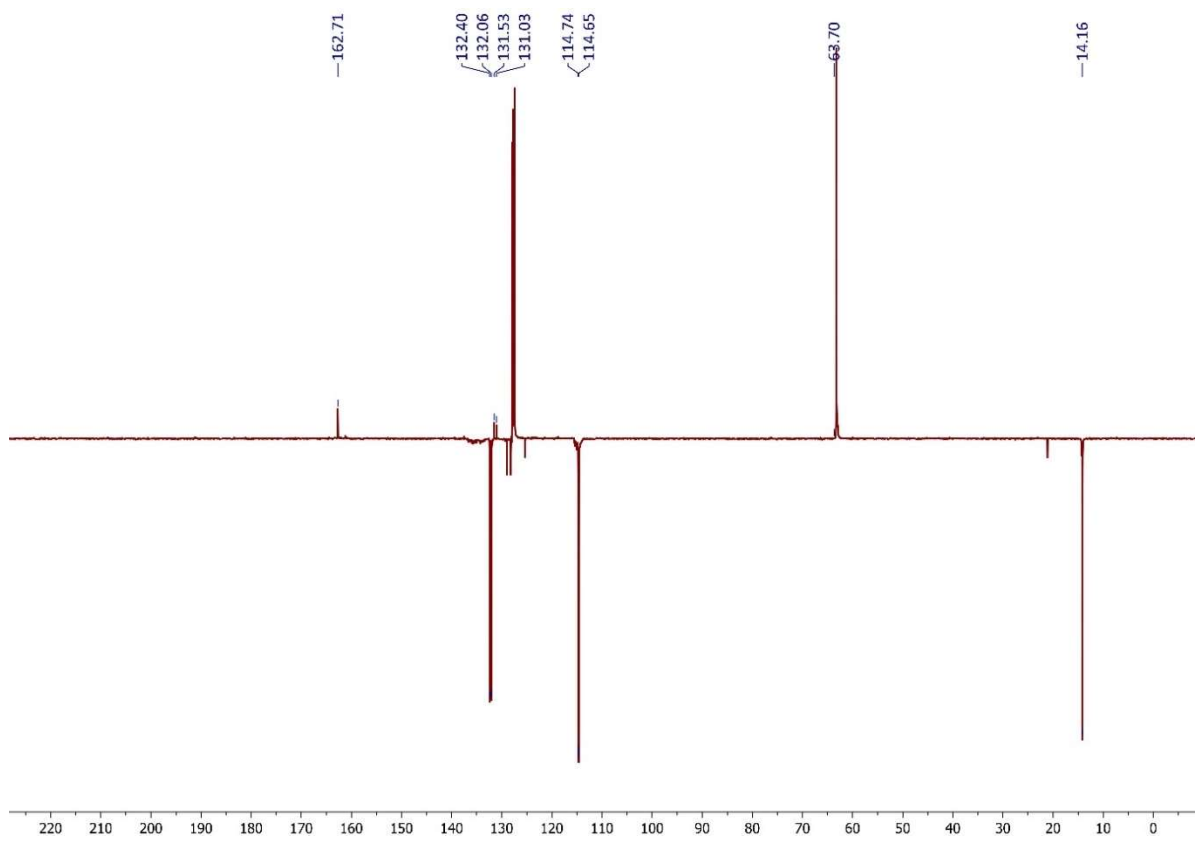
^1H :



$^{31}\text{P}\{^1\text{H}\}$:

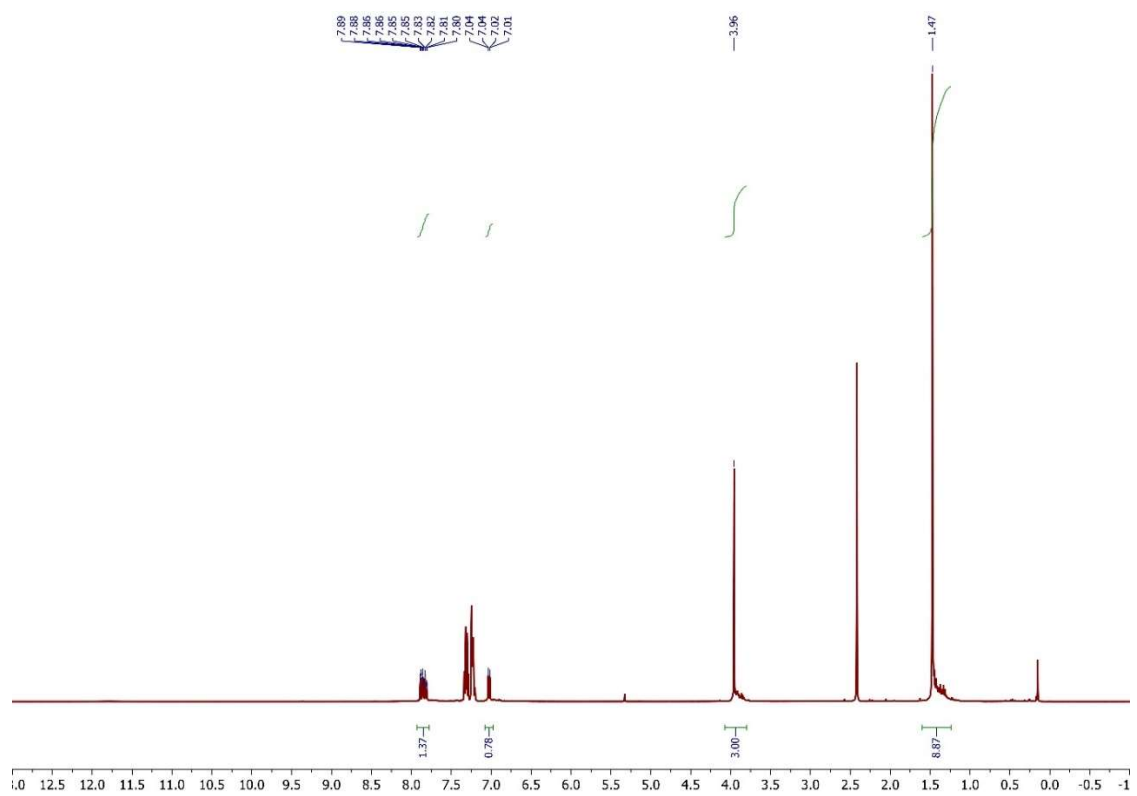


$^{13}\text{C}\{^1\text{H}\}$:

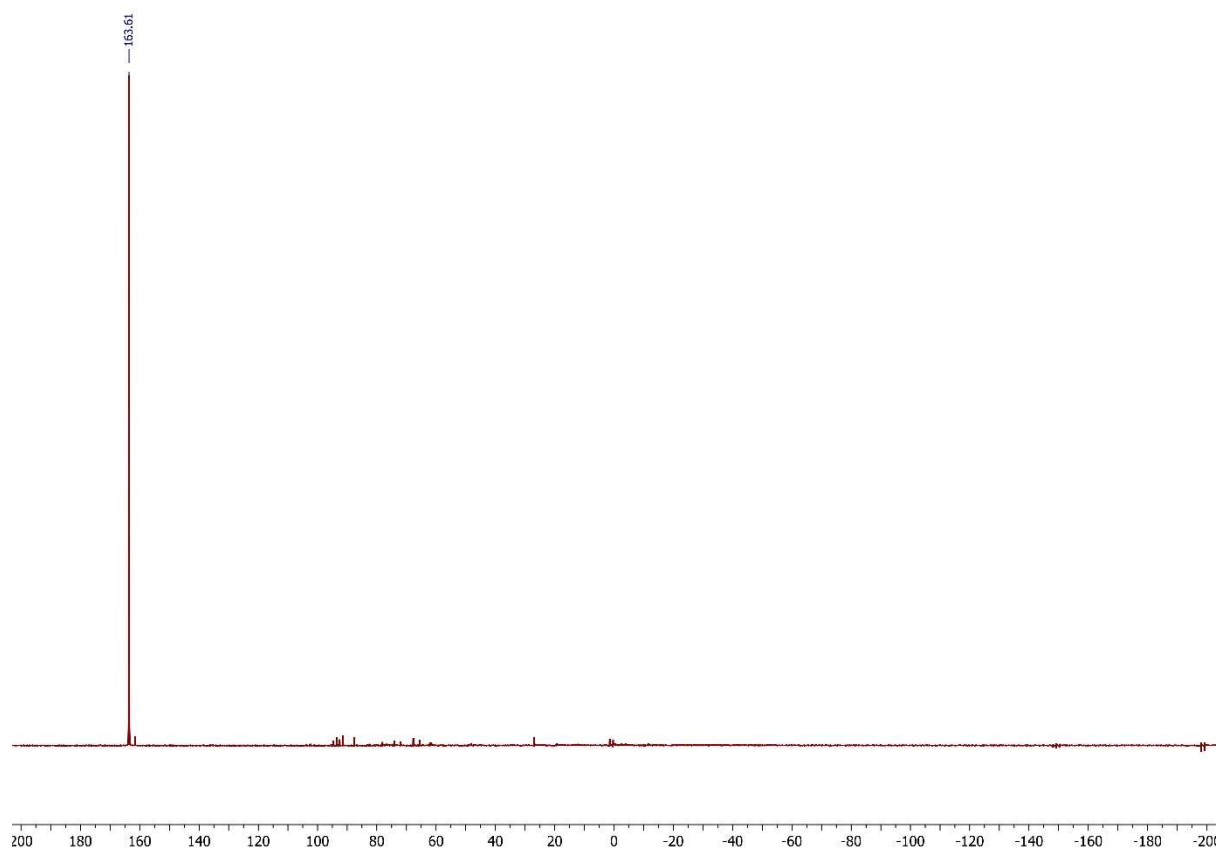


3C:

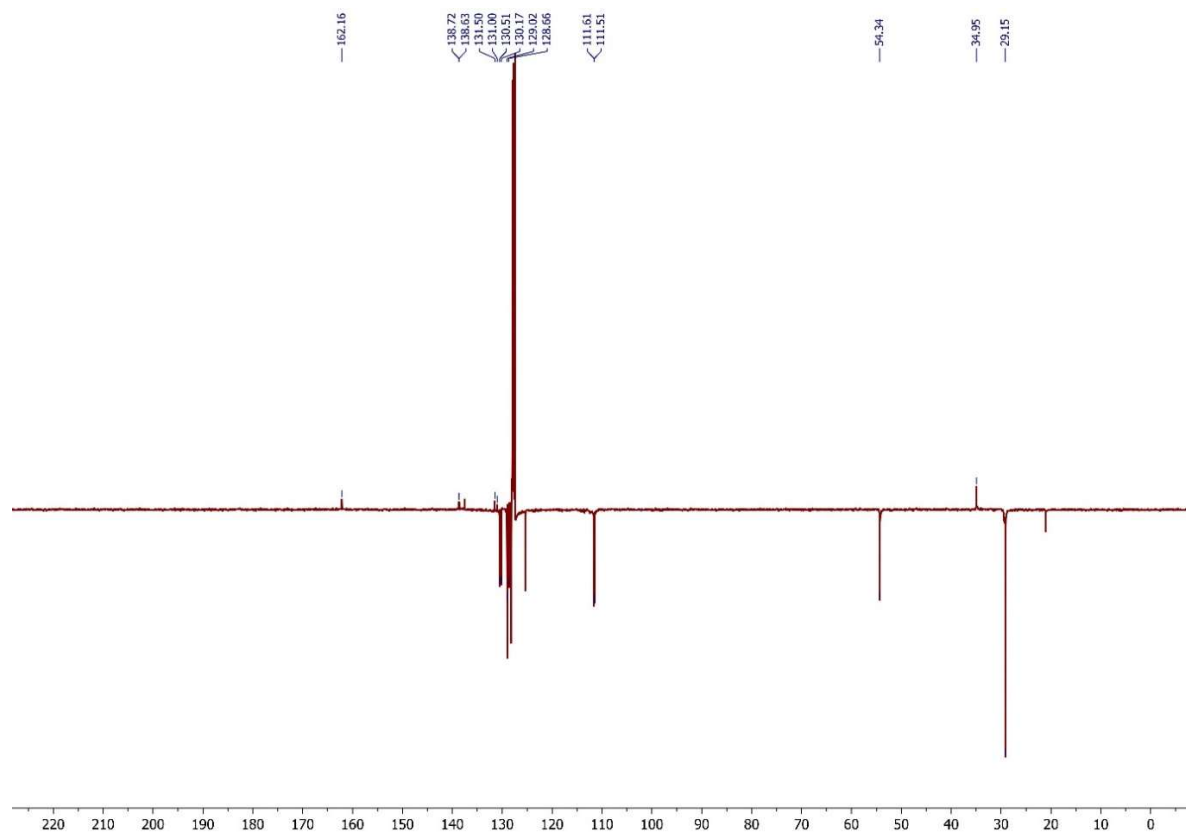
^1H :



$^{31}\text{P}\{^1\text{H}\}$:

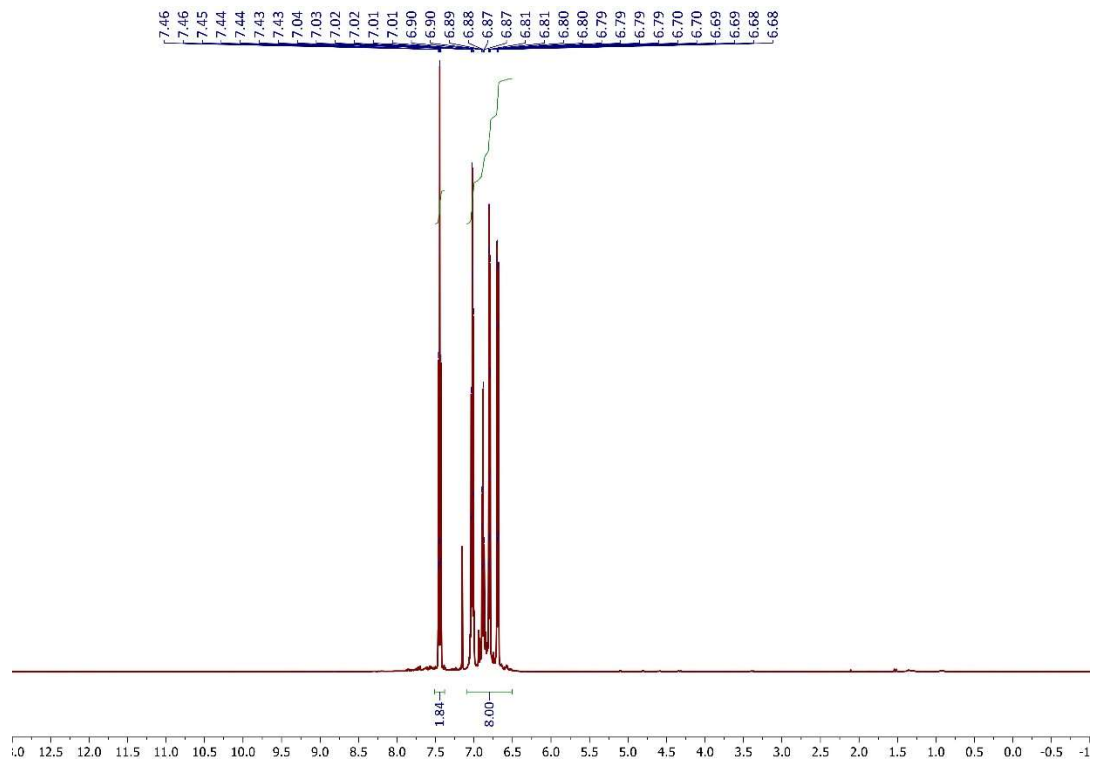


$^{13}\text{C}\{^1\text{H}\}$:

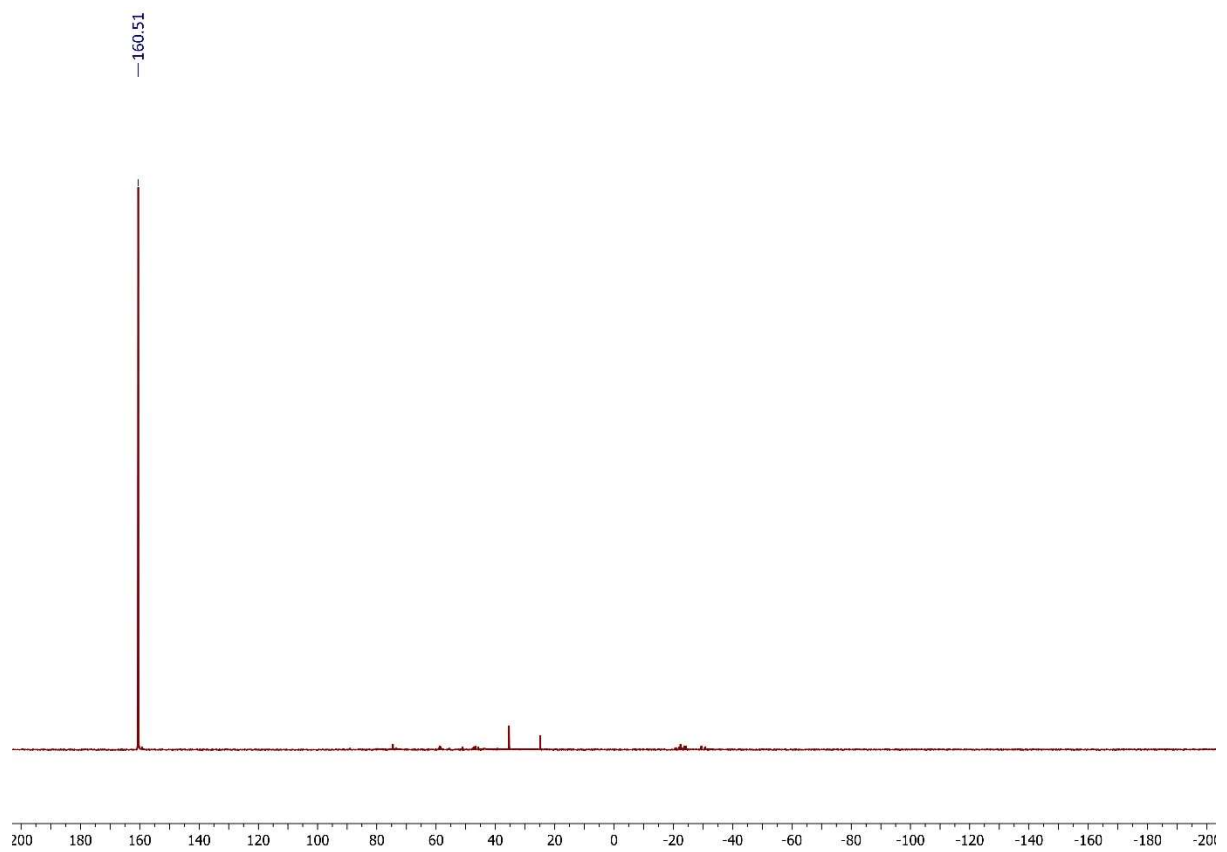


3D:

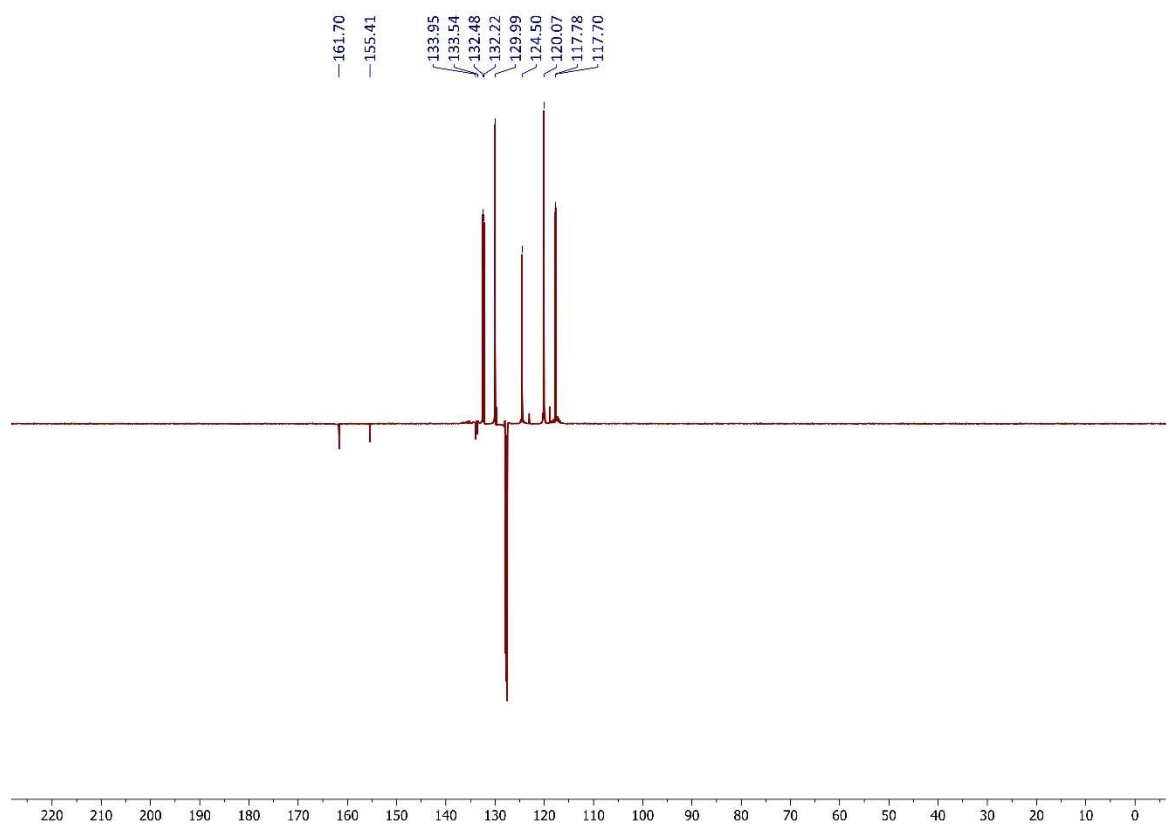
^1H :



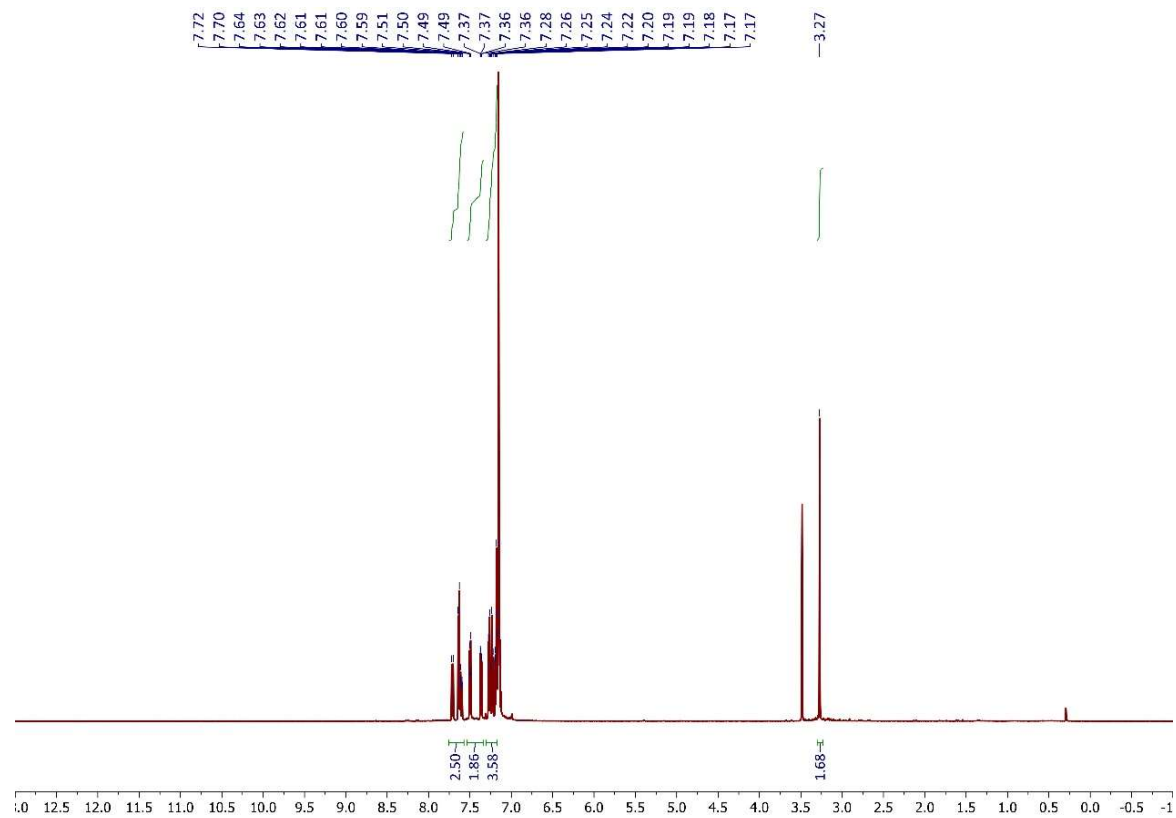
$^{31}\text{P}\{^1\text{H}\}$:



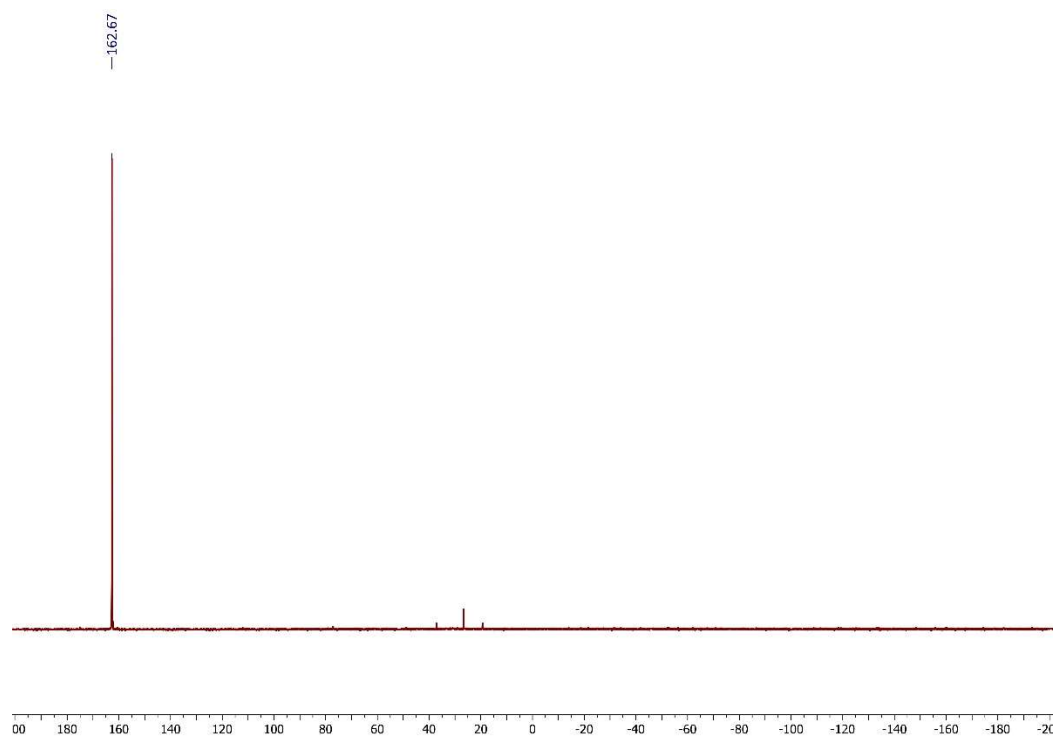
$^{13}\text{C}\{^1\text{H}\}$:



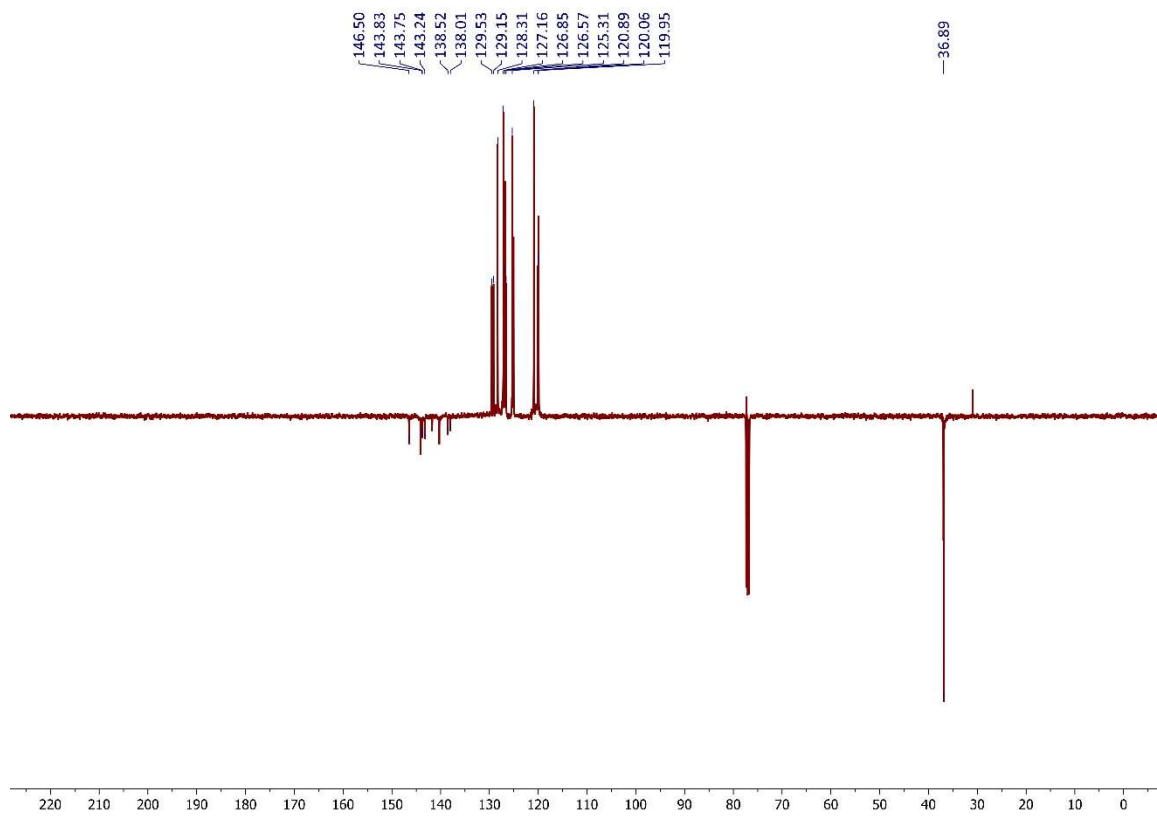
3E:
 ^1H :



$^{31}\text{P}\{^1\text{H}\}$:

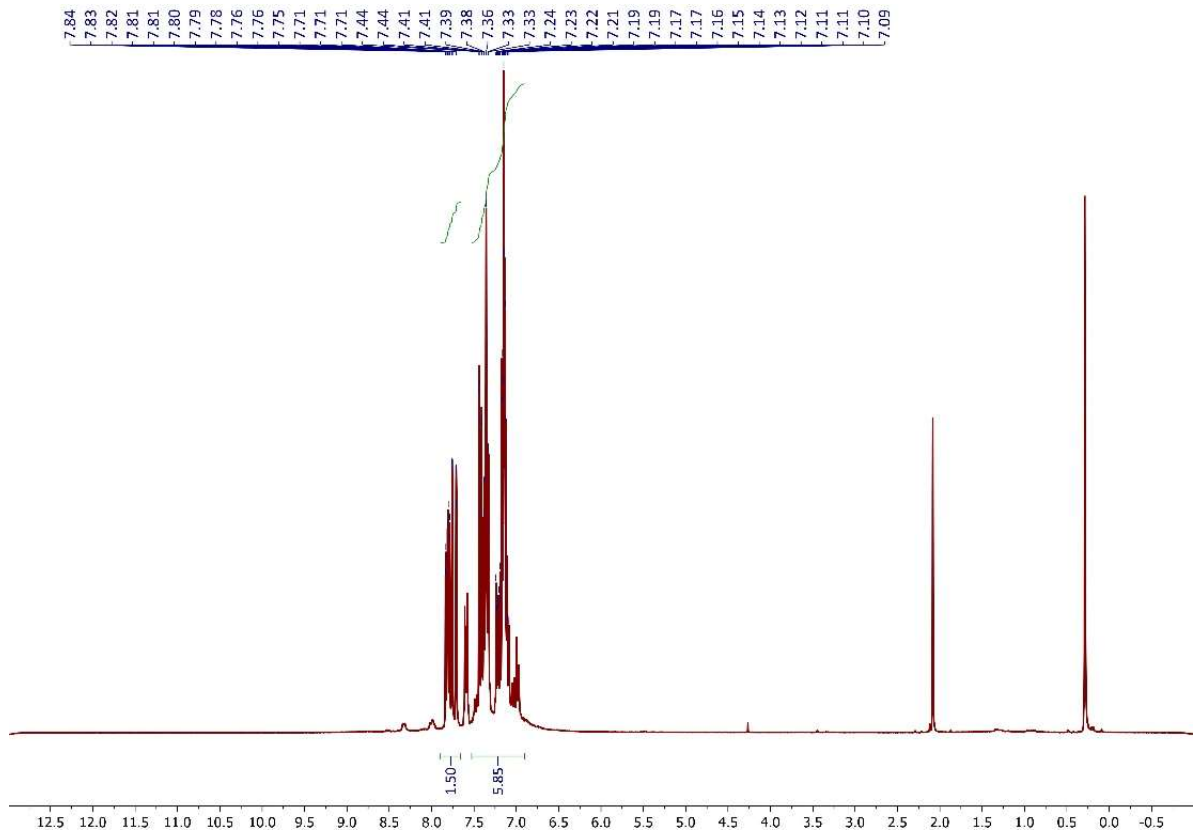


$^{13}\text{C}\{^1\text{H}\}$:



3F:

^1H :



$^{31}\text{P}\{^1\text{H}\}$:

