

## Supplementary Material

### Stereoselective synthesis of 1-deoxynojirimycin, D-glucono- $\delta$ -lactam and D-altrono- $\delta$ -lactam from a common chiral intermediate derived from D-mannitol

Mettu Ravinder,<sup>§\*</sup> Thatikonda Narendar Reddy, Budde Mahendar, and Vaidya Jayathirtha Rao \*

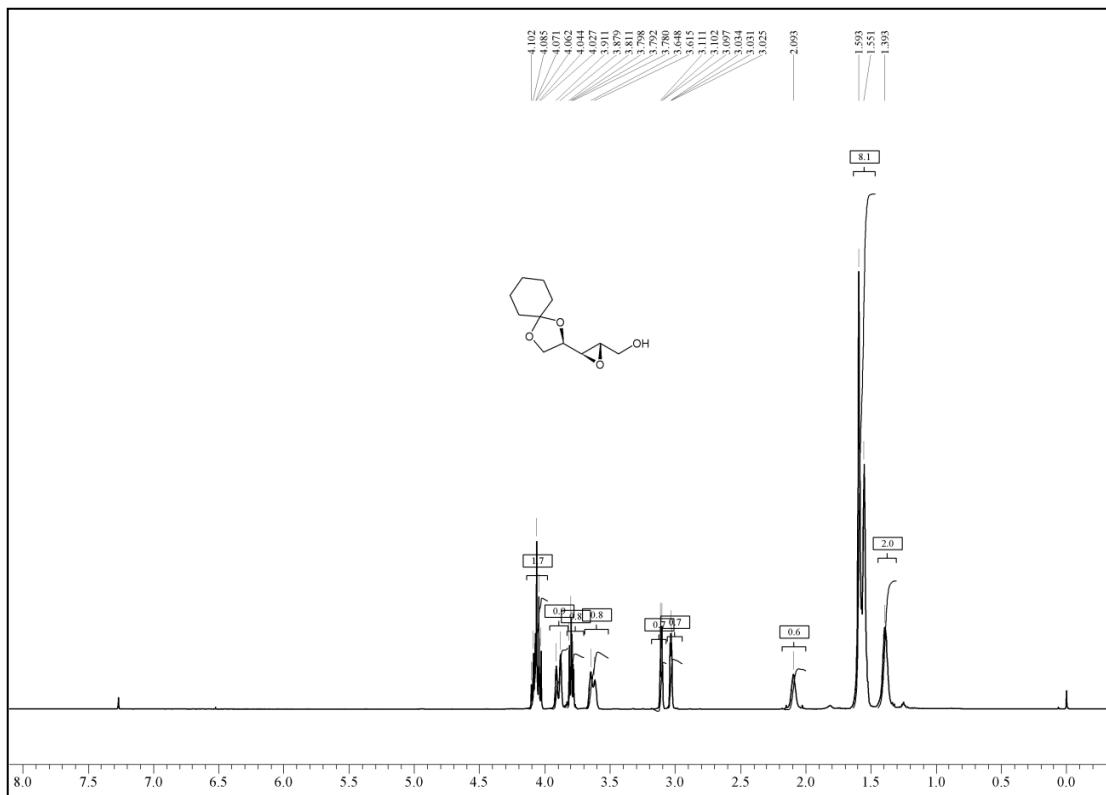
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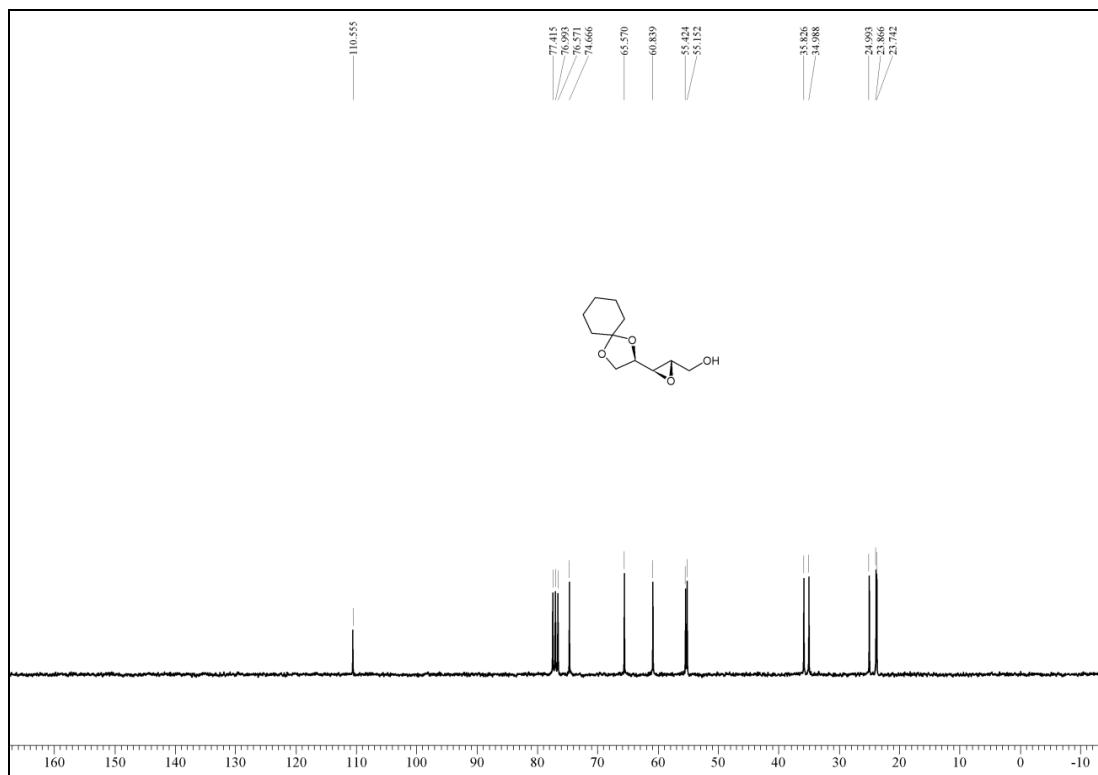
*E-mail: [ravi\\_iictindia@yahoo.co.in](mailto:ravi_iictindia@yahoo.co.in); [jrao@iict.res.in](mailto:jrao@iict.res.in)*

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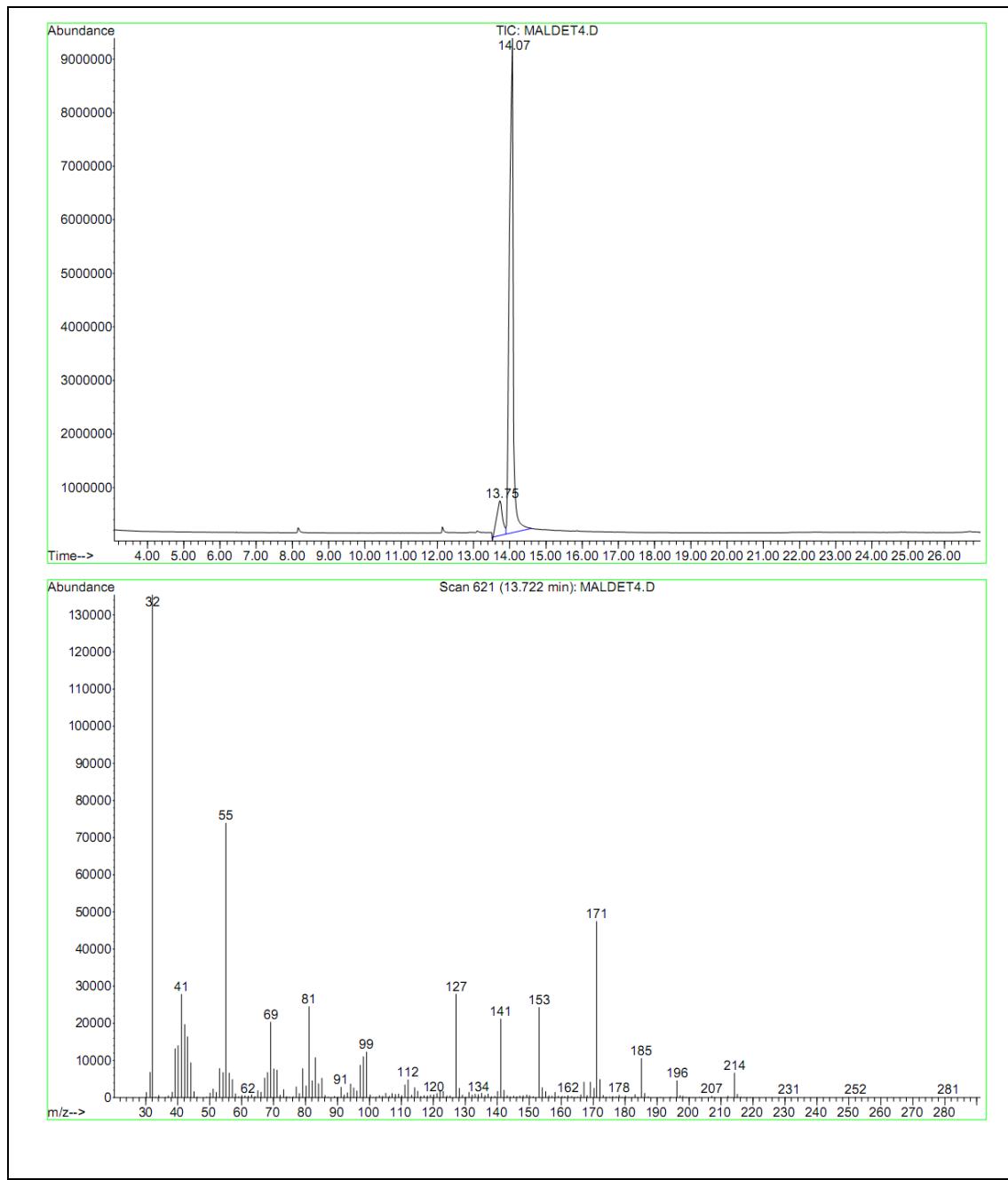
Selected compounds  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR and HRMS data were given below.



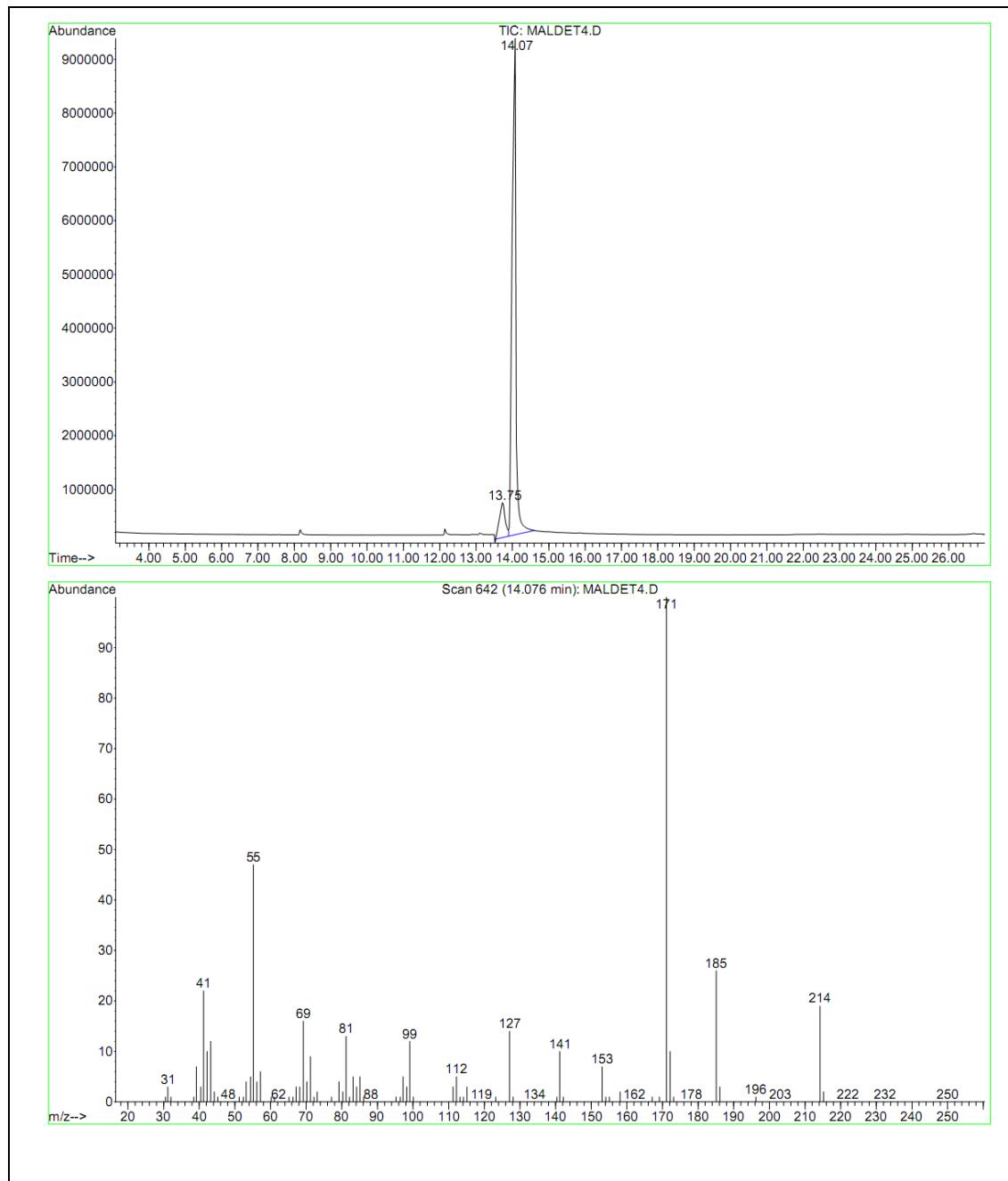
<sup>1</sup>H NMR spectrum of compound 9



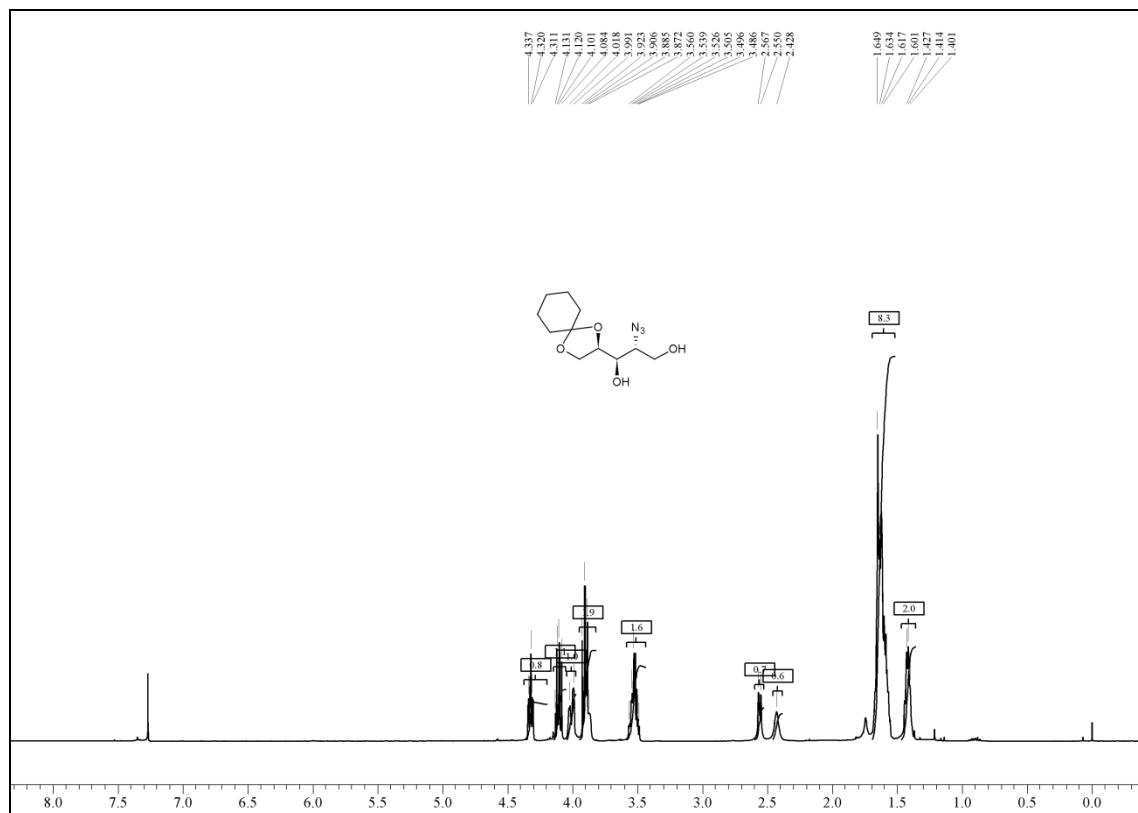
<sup>13</sup>C NMR spectrum of compound 9



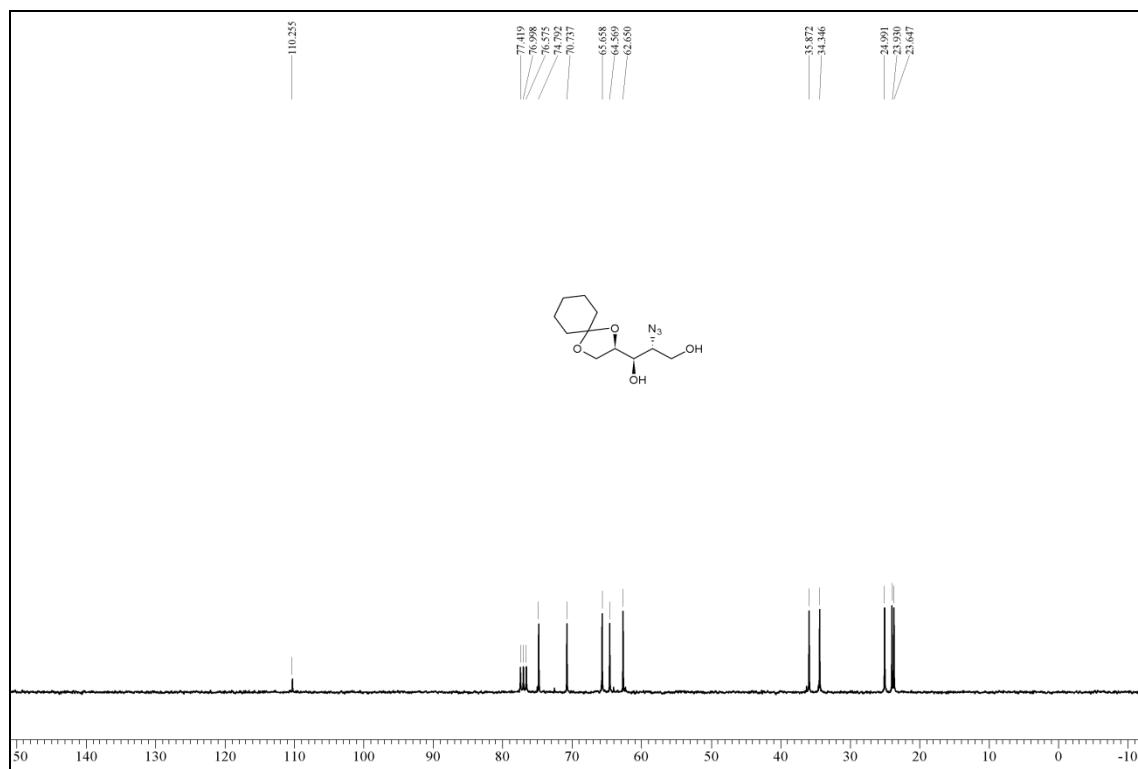
GC-MS spectrum of compound 9



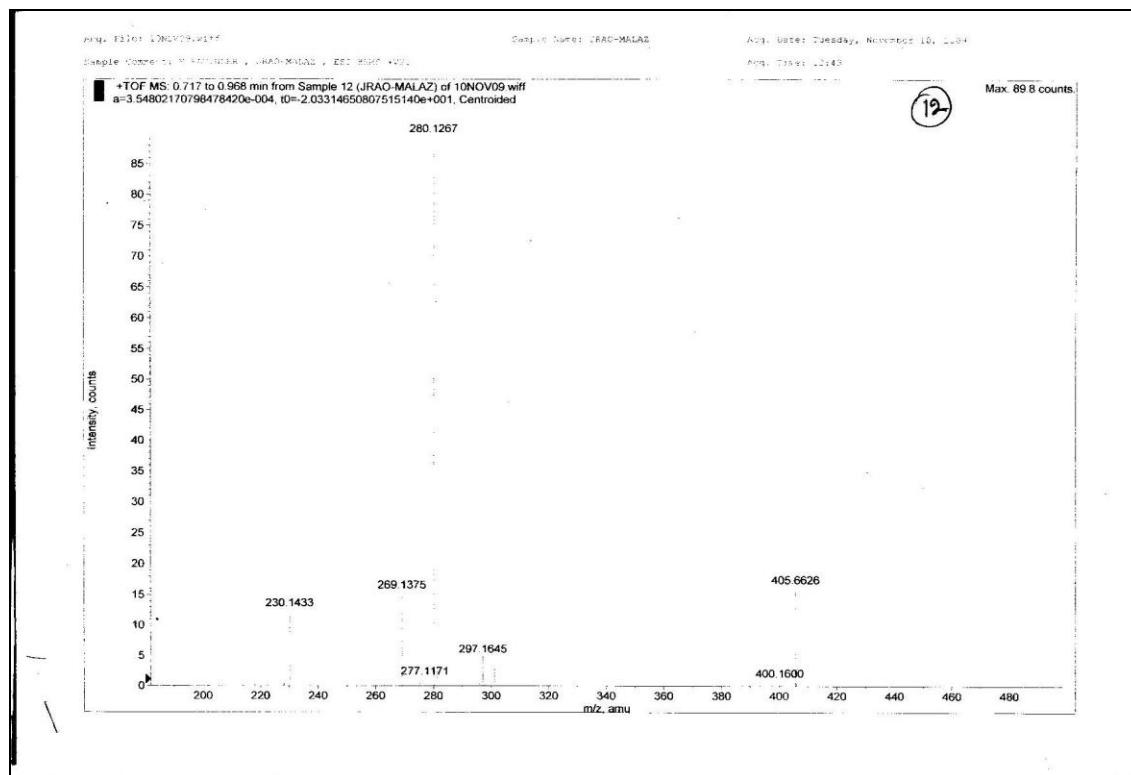
GC-MS spectrum of compound 9



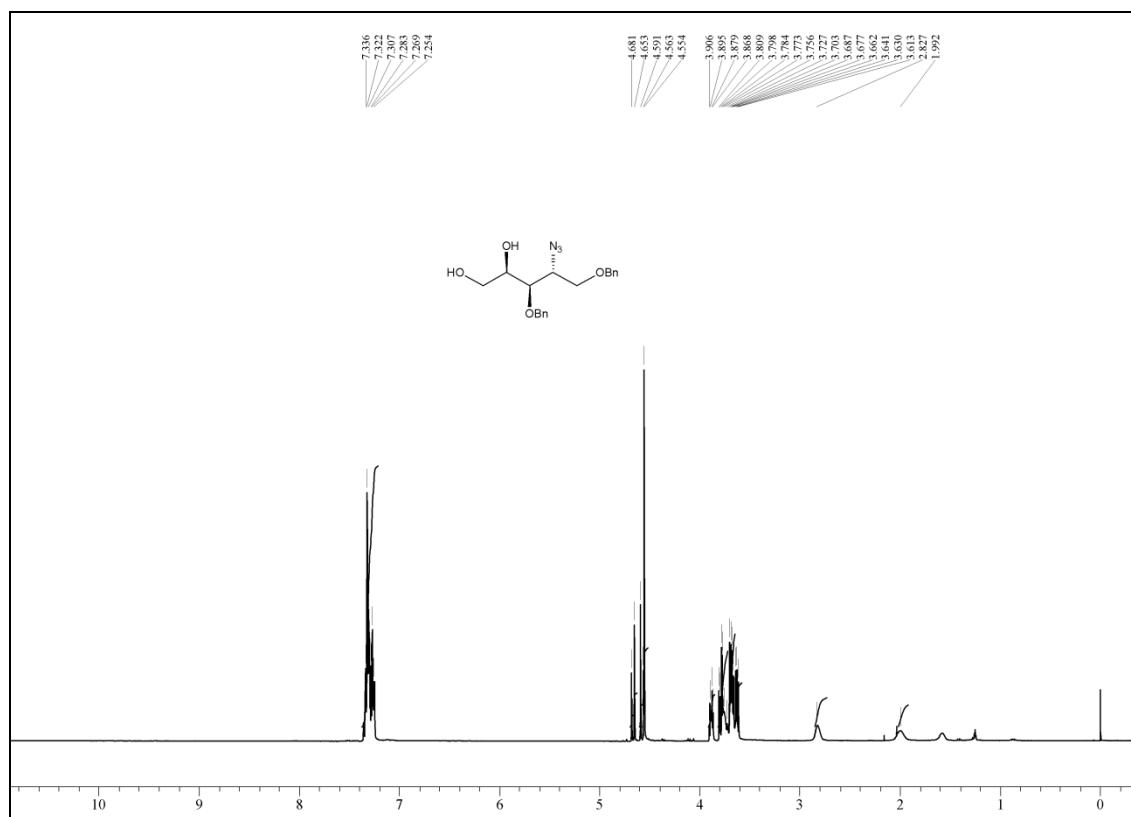
<sup>1</sup>H NMR spectrum of compound 12

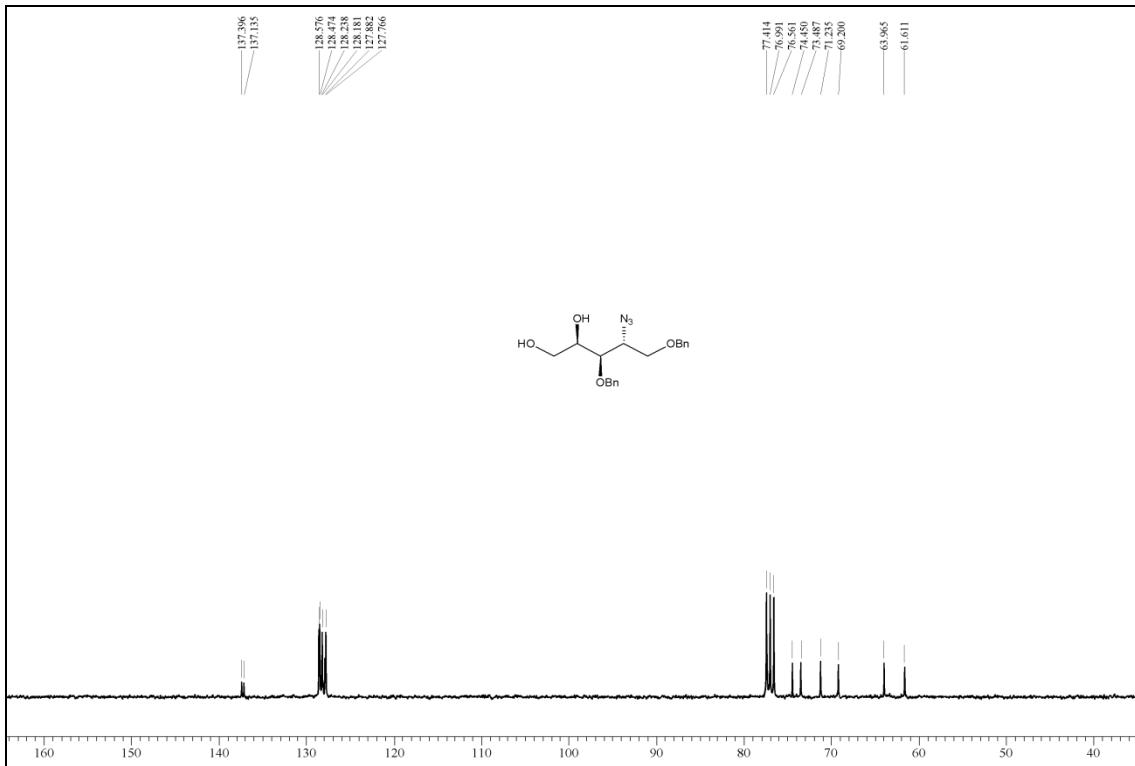


<sup>13</sup>C NMR spectrum of compound 12

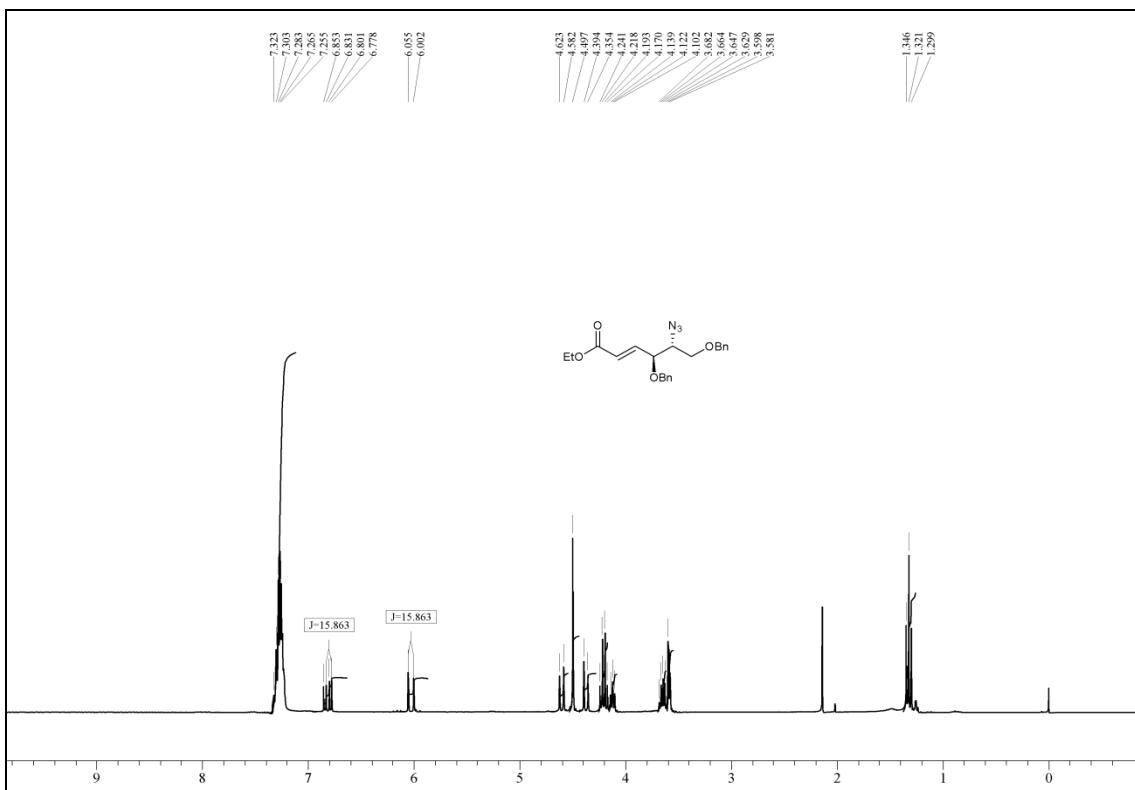


HRMS spectrum of compound 12

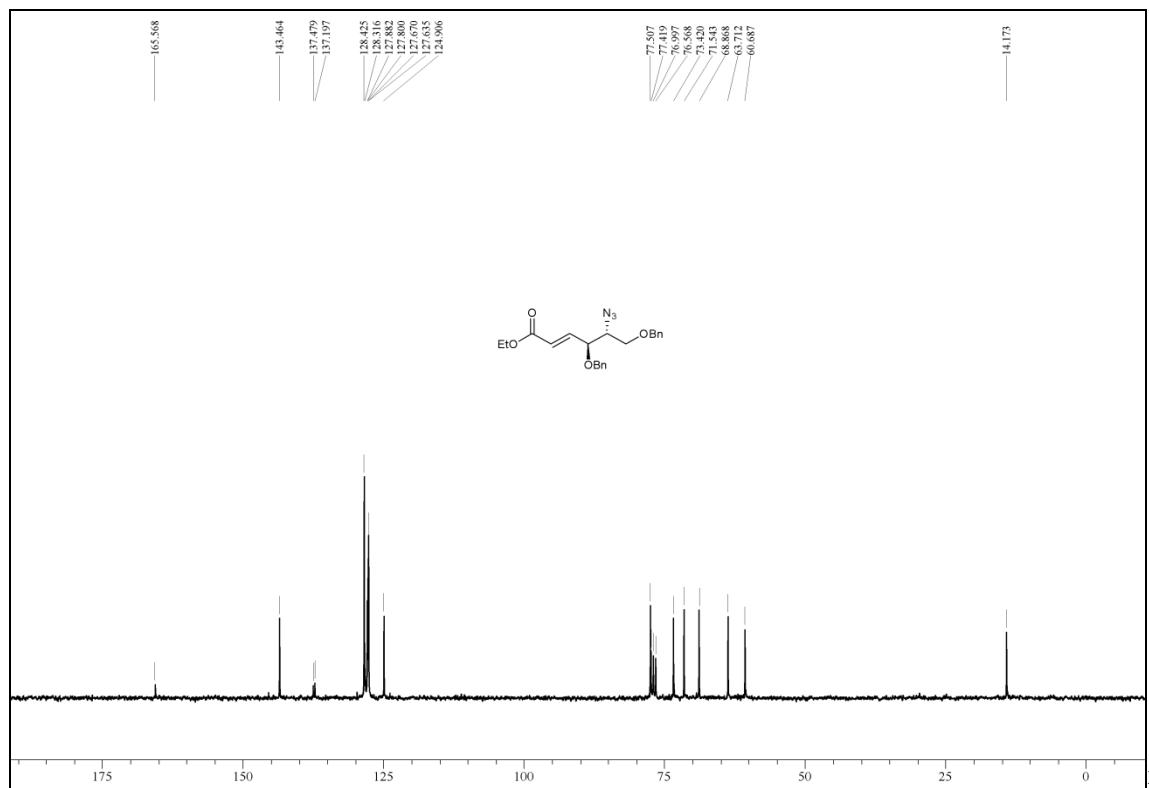
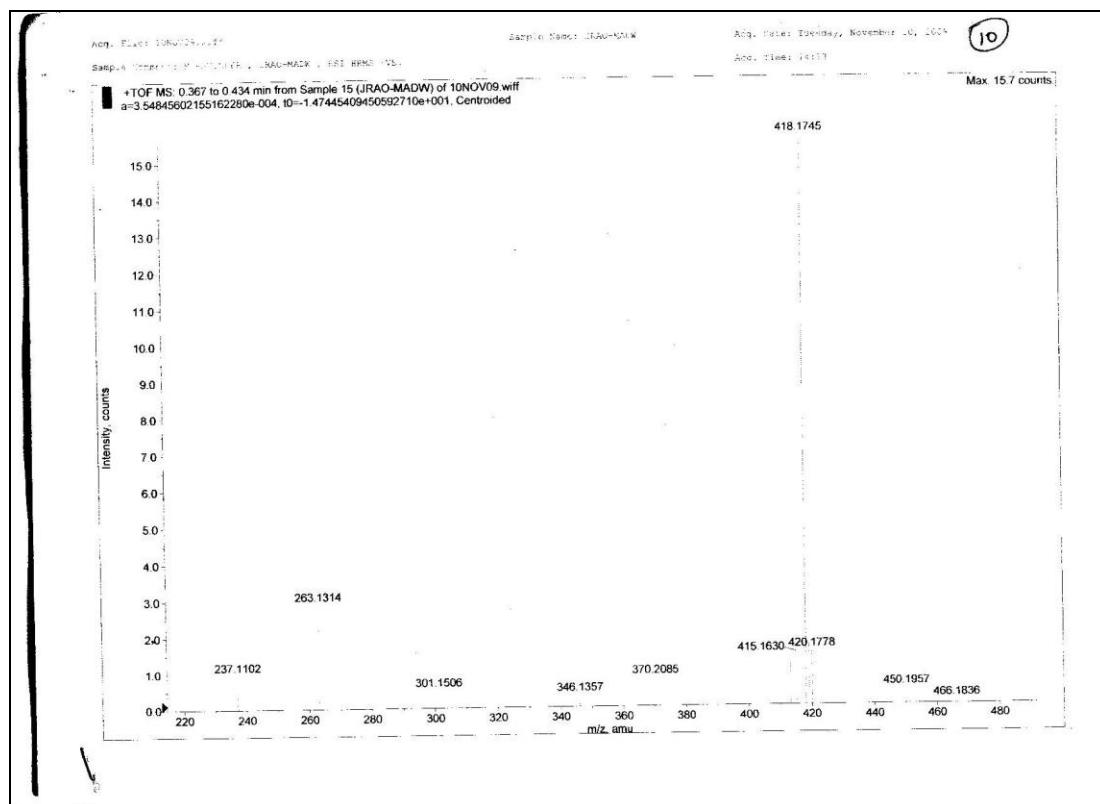
<sup>1</sup>H NMR spectrum of compound 14

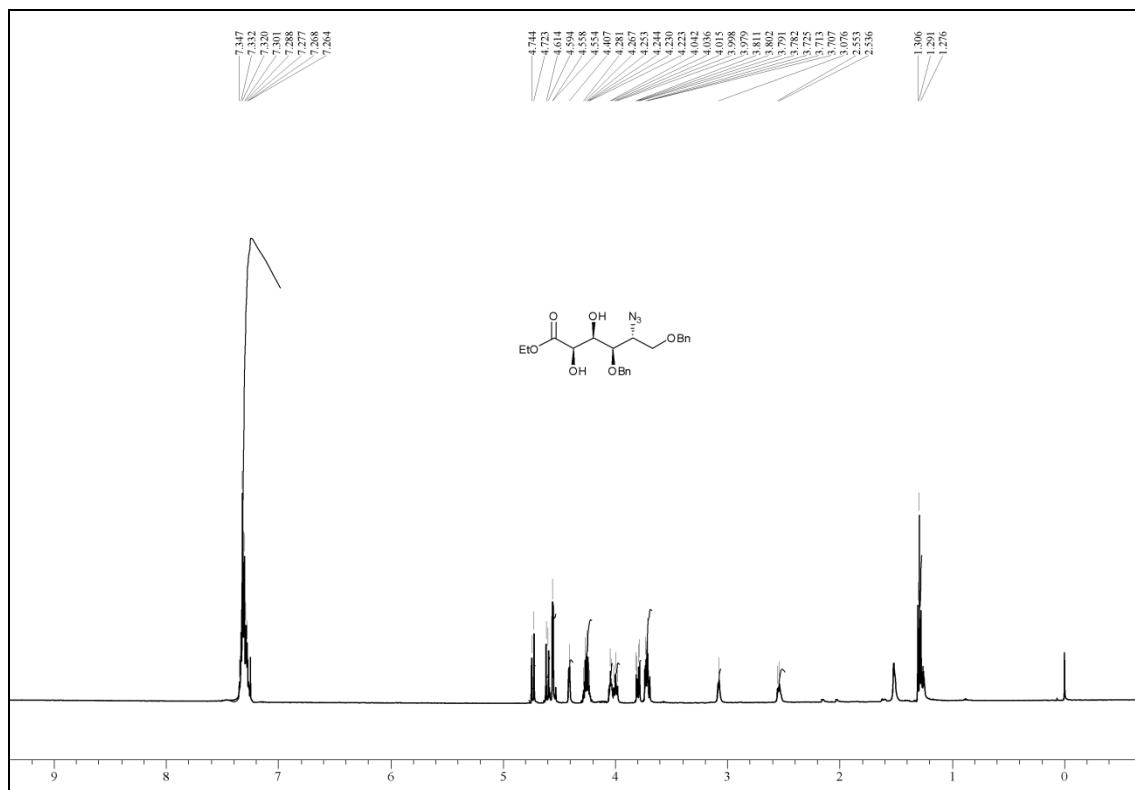


### **<sup>13</sup>C NMR spectrum of compound 14**

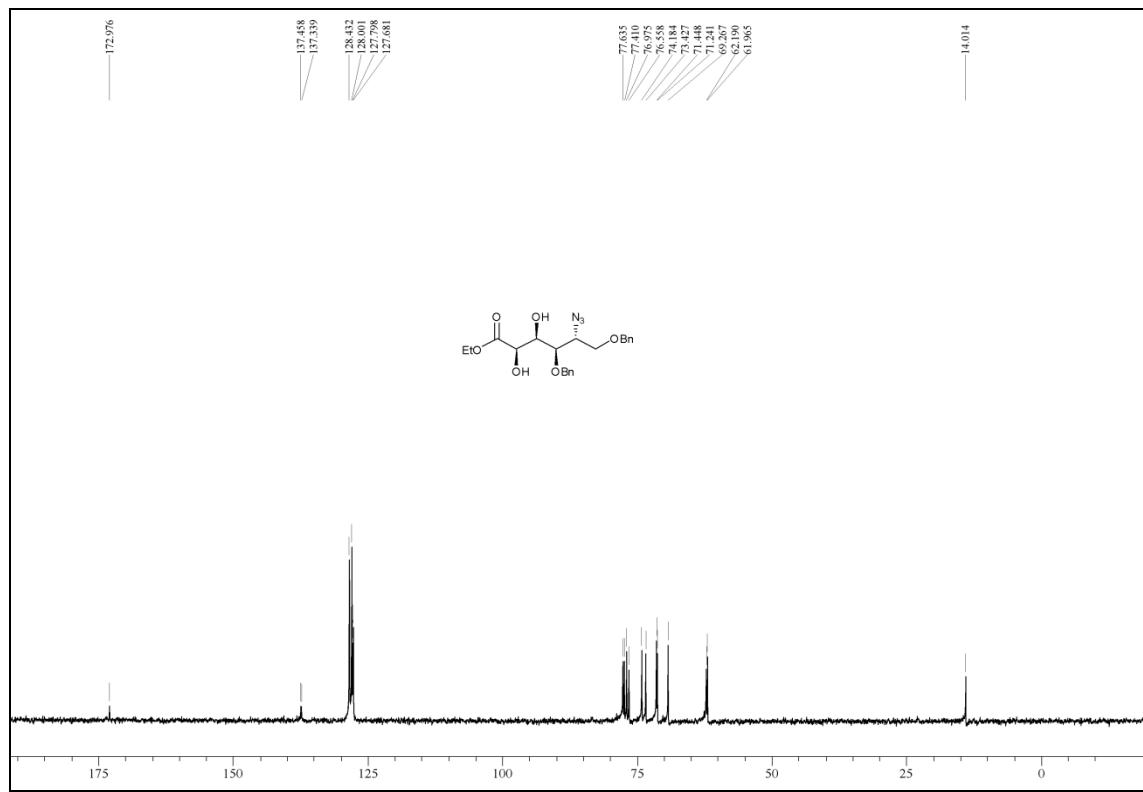


### **<sup>1</sup>H NMR spectrum of compound 10**

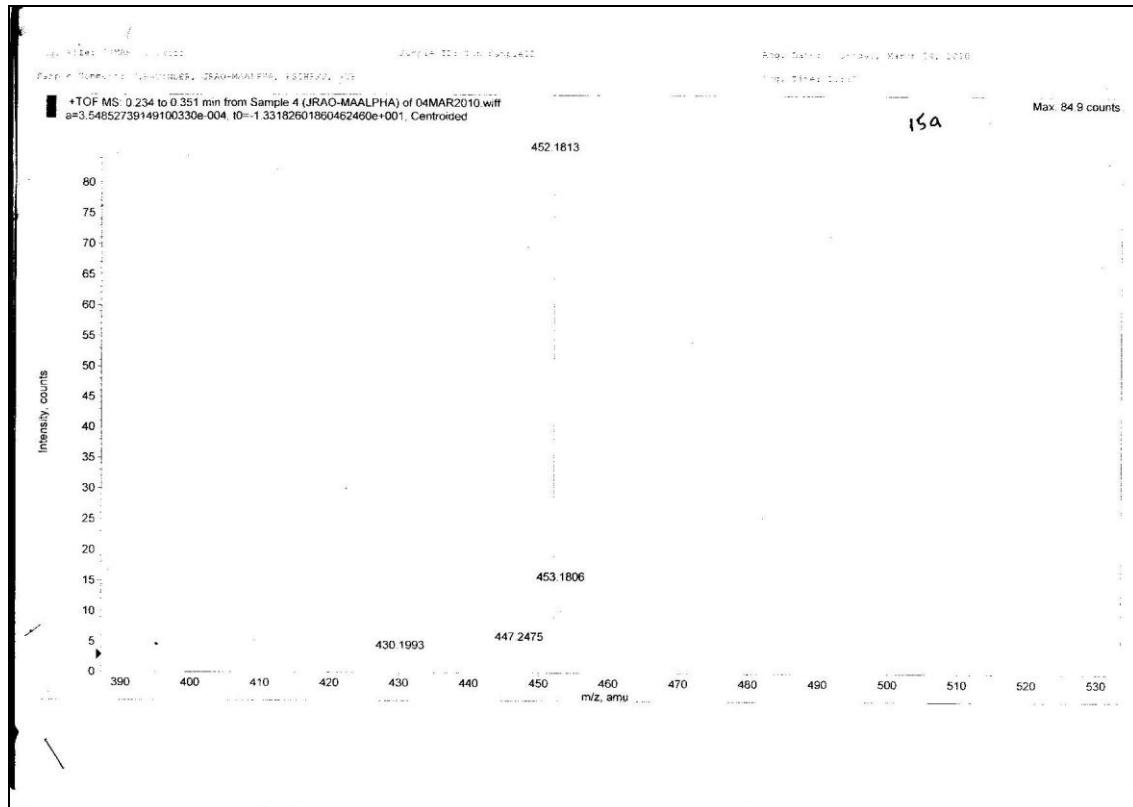
**13C NMR spectrum of compound 10****HRMS spectrum of compound 10**



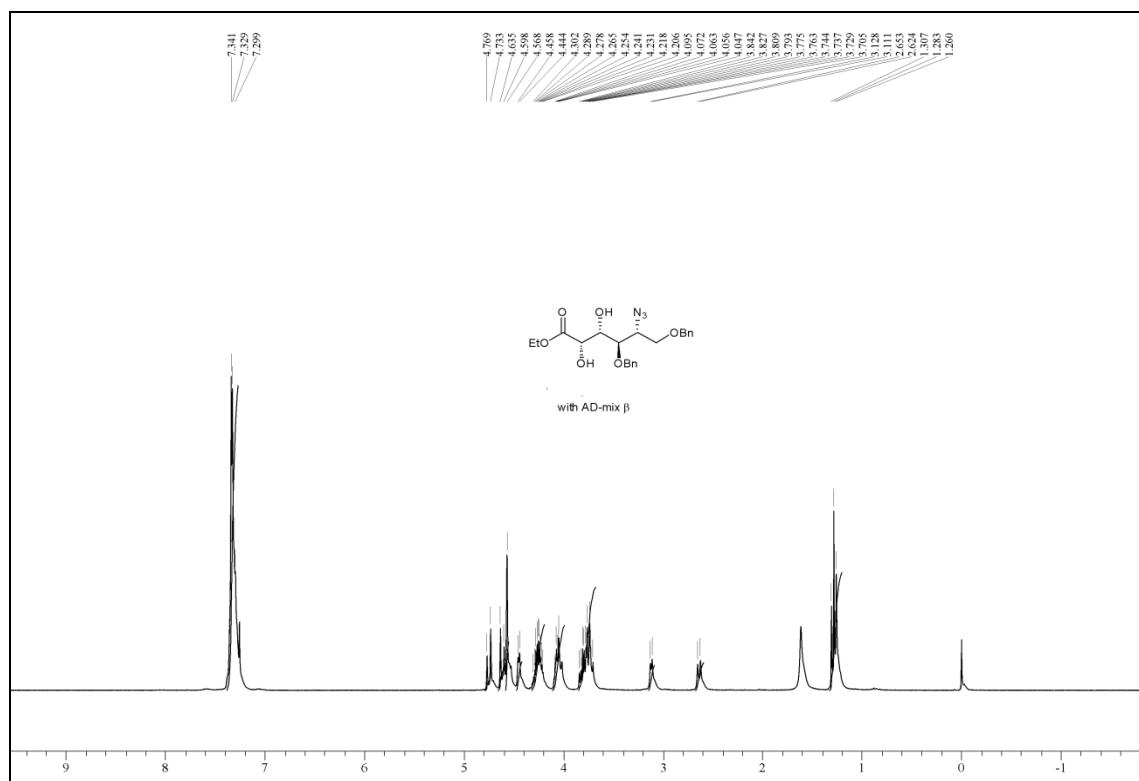
<sup>1</sup>H NMR spectrum of compound 15a



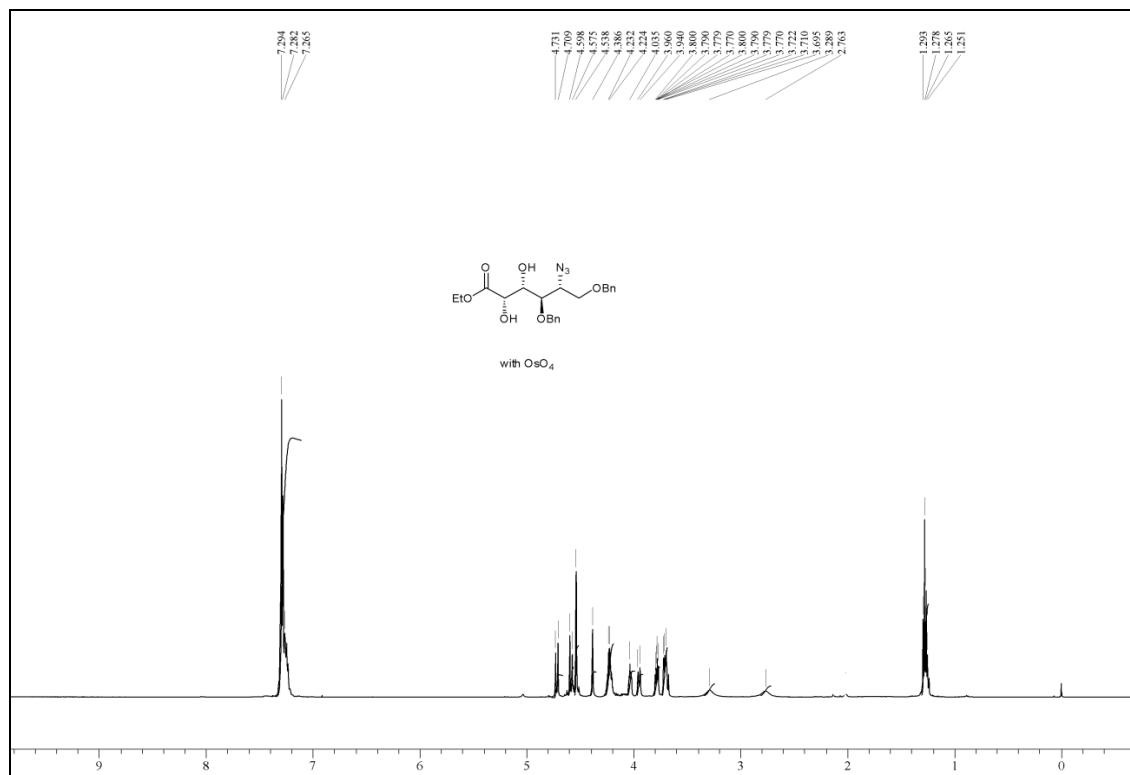
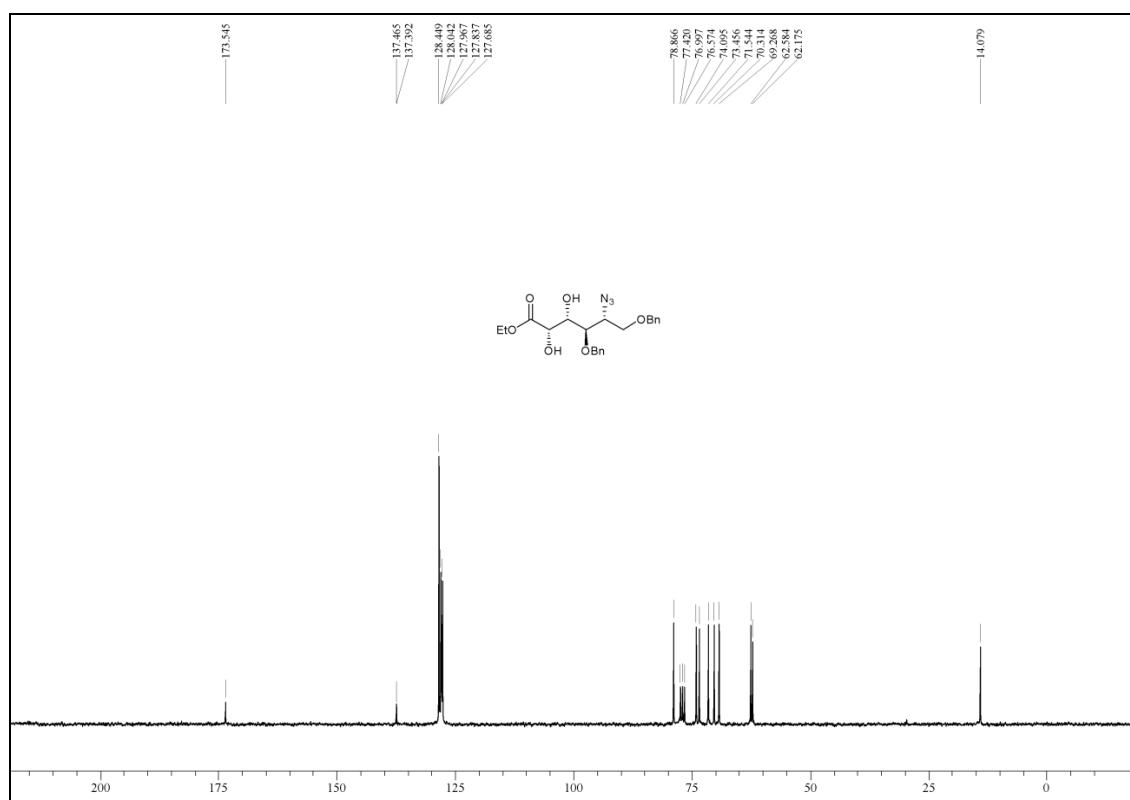
<sup>13</sup>C NMR spectrum of compound 15a

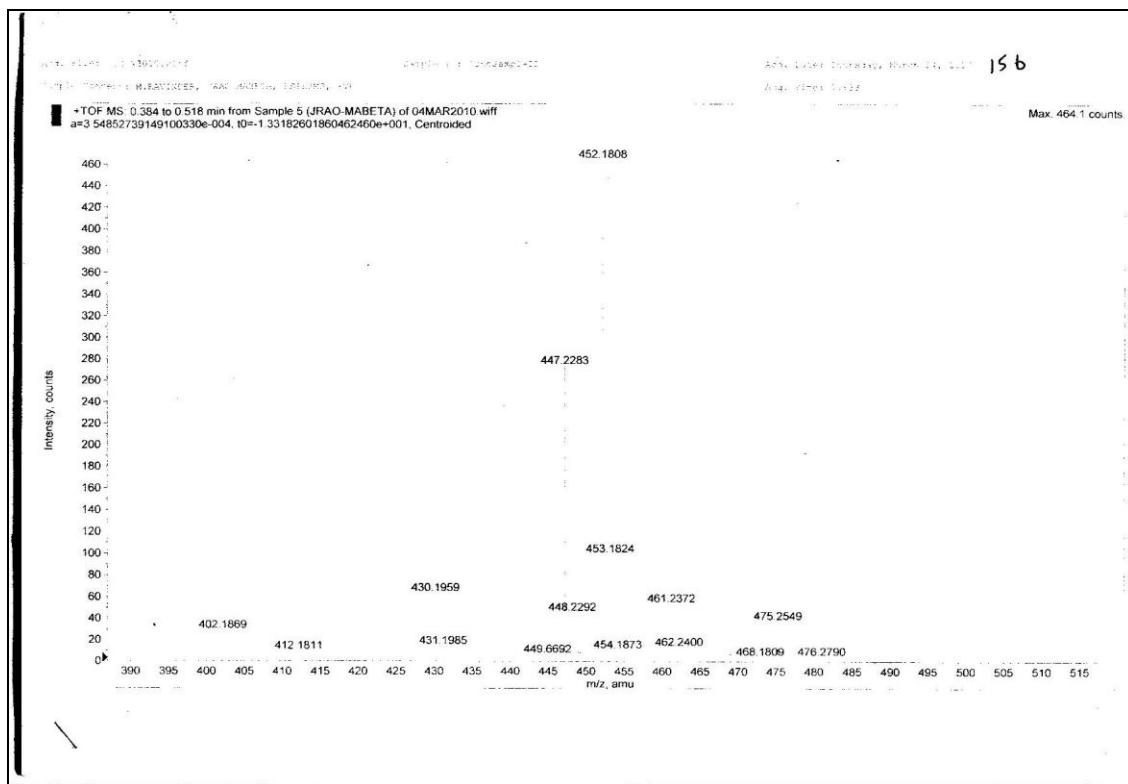


## HRMS spectrum of compound 15a

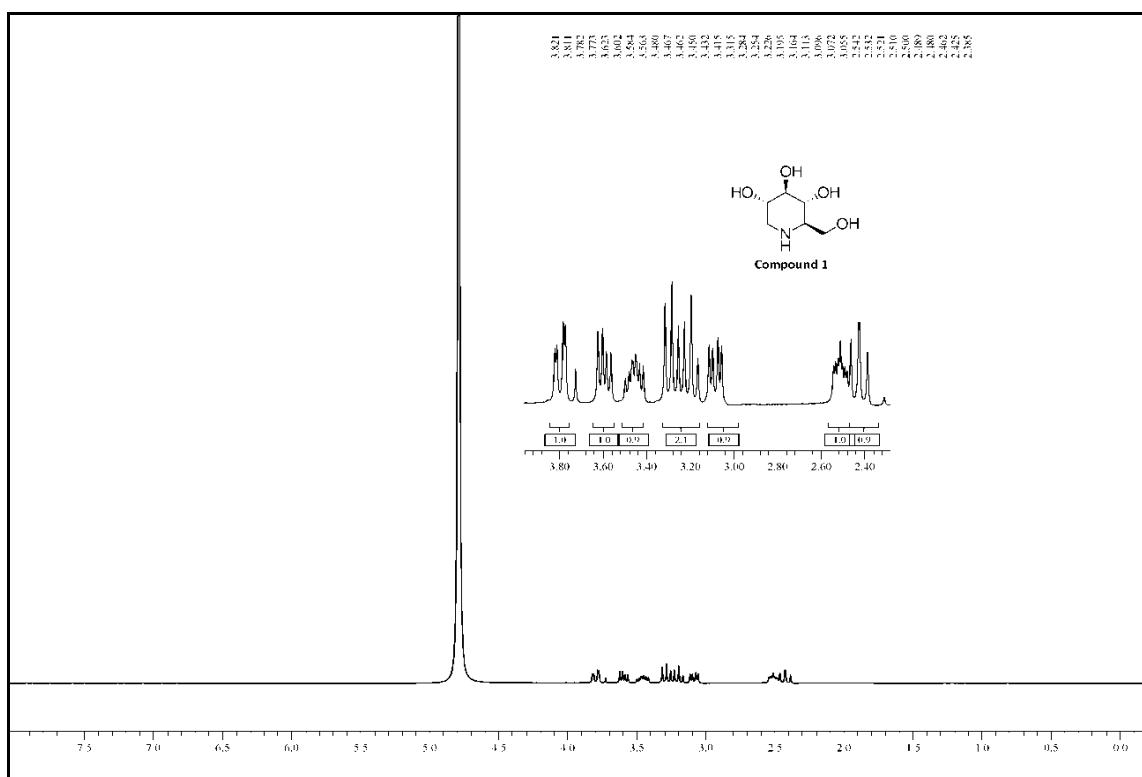


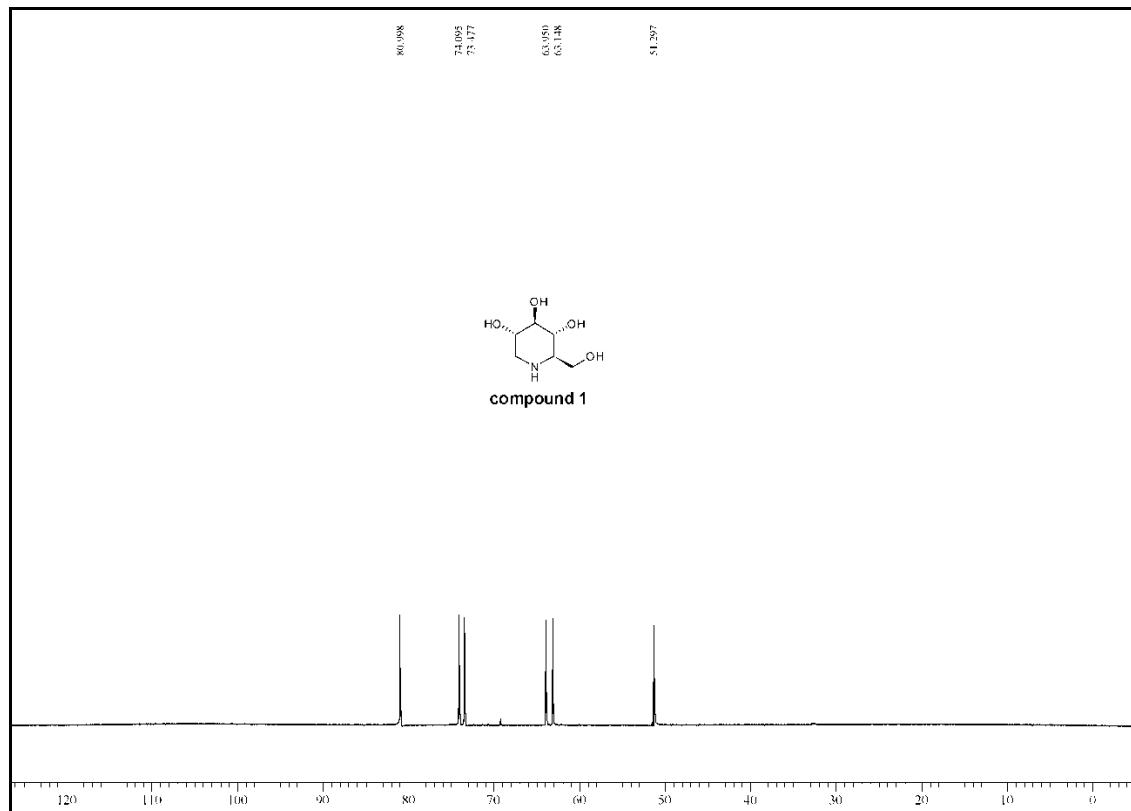
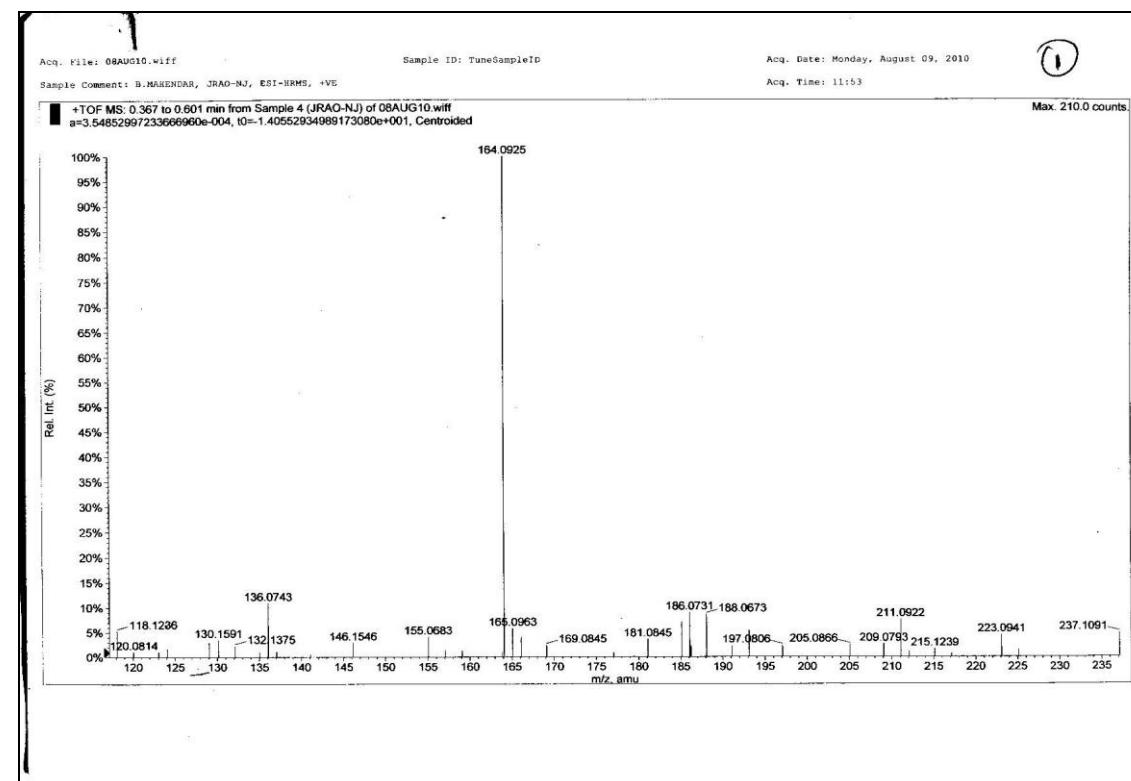
### **<sup>1</sup>H NMR spectrum of compound 15b**

<sup>1</sup>H NMR spectrum of compound 15b<sup>13</sup>C NMR spectrum of compound 15b

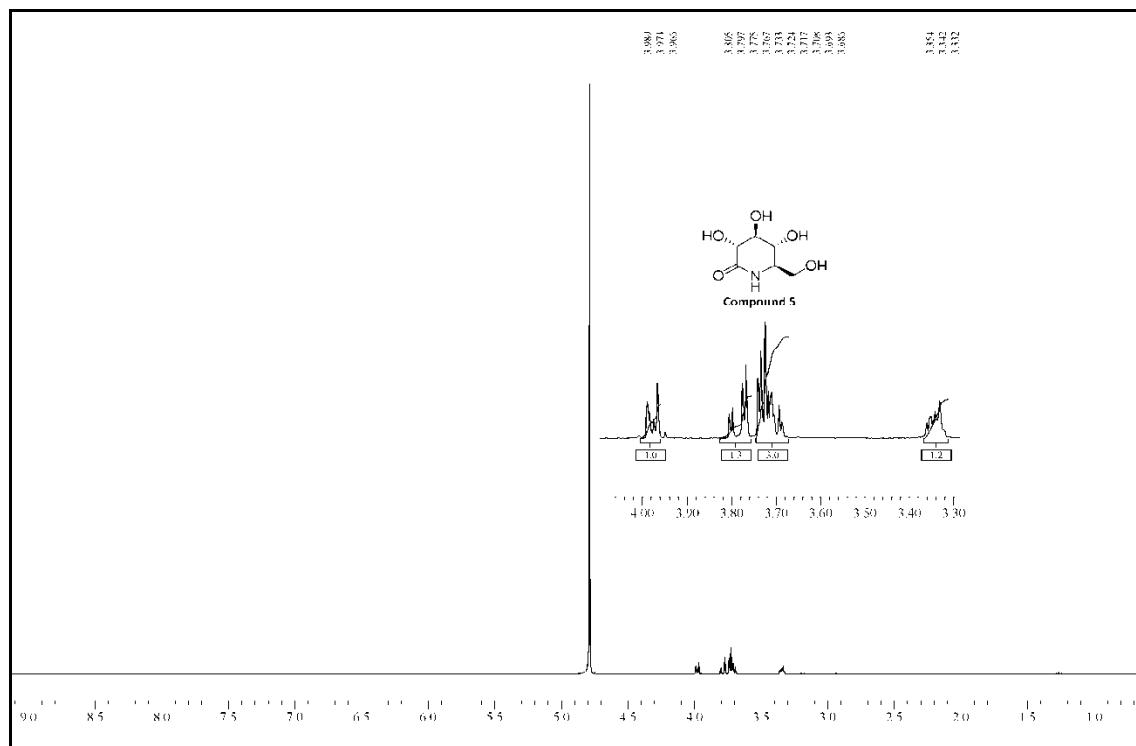


HRMS spectrum of compound 15b

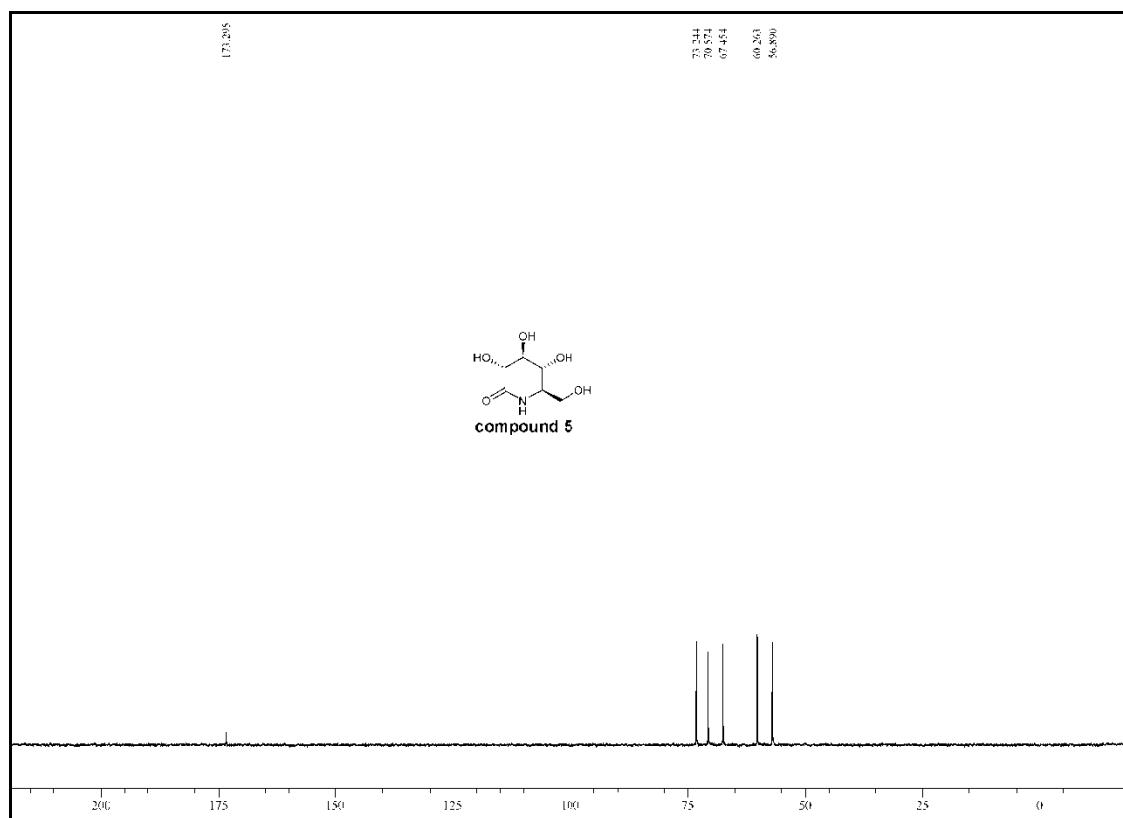
<sup>1</sup>H NMR spectrum of compound 1

 $^{13}\text{C}$  NMR spectrum of compound 1

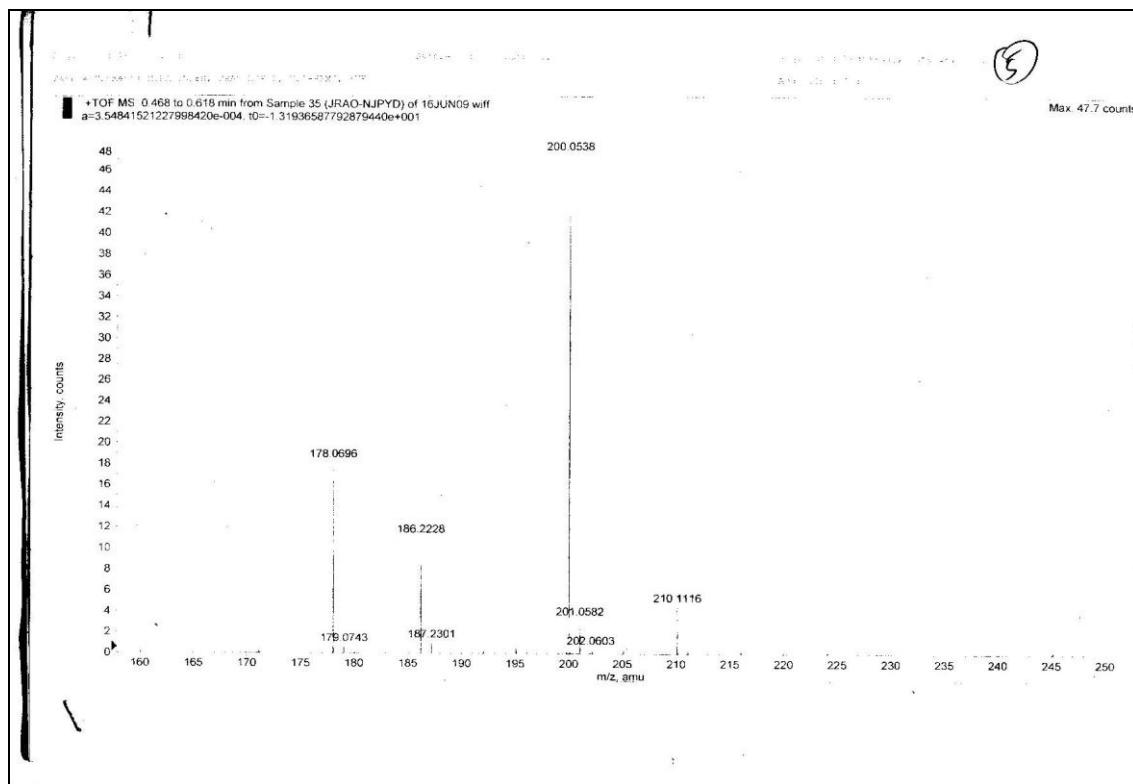
HRMS spectrum of compound 1



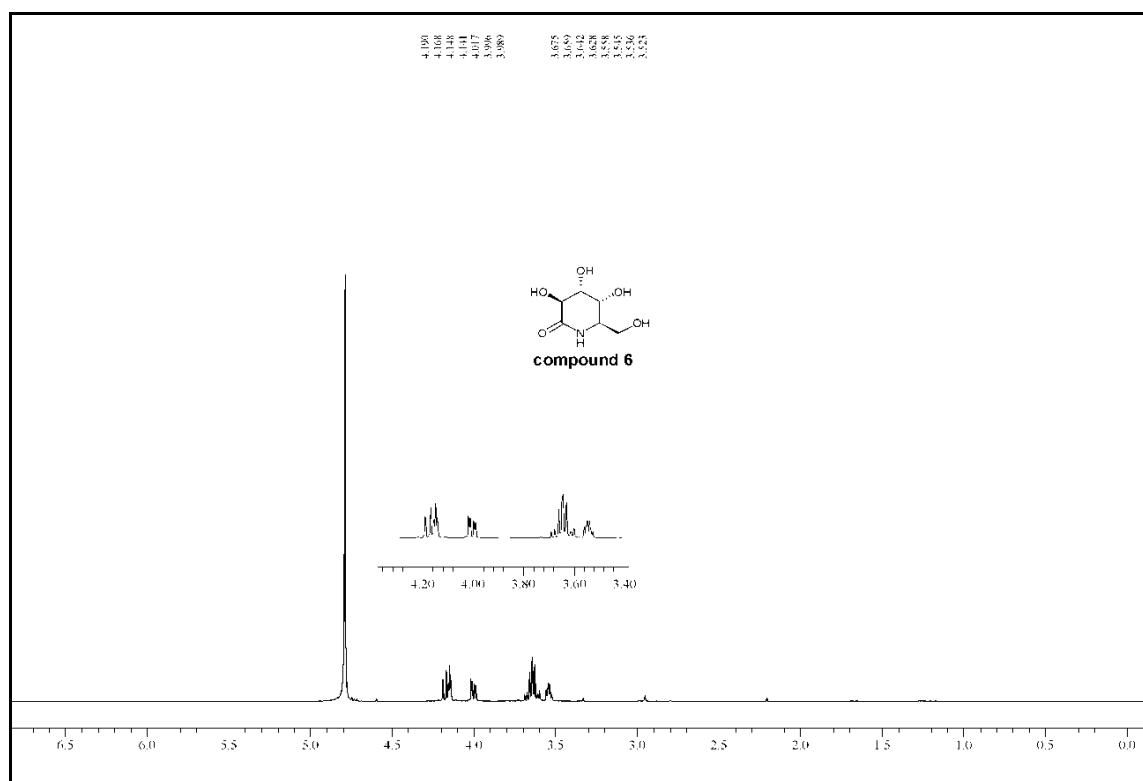
<sup>1</sup>H NMR spectrum of compound 5



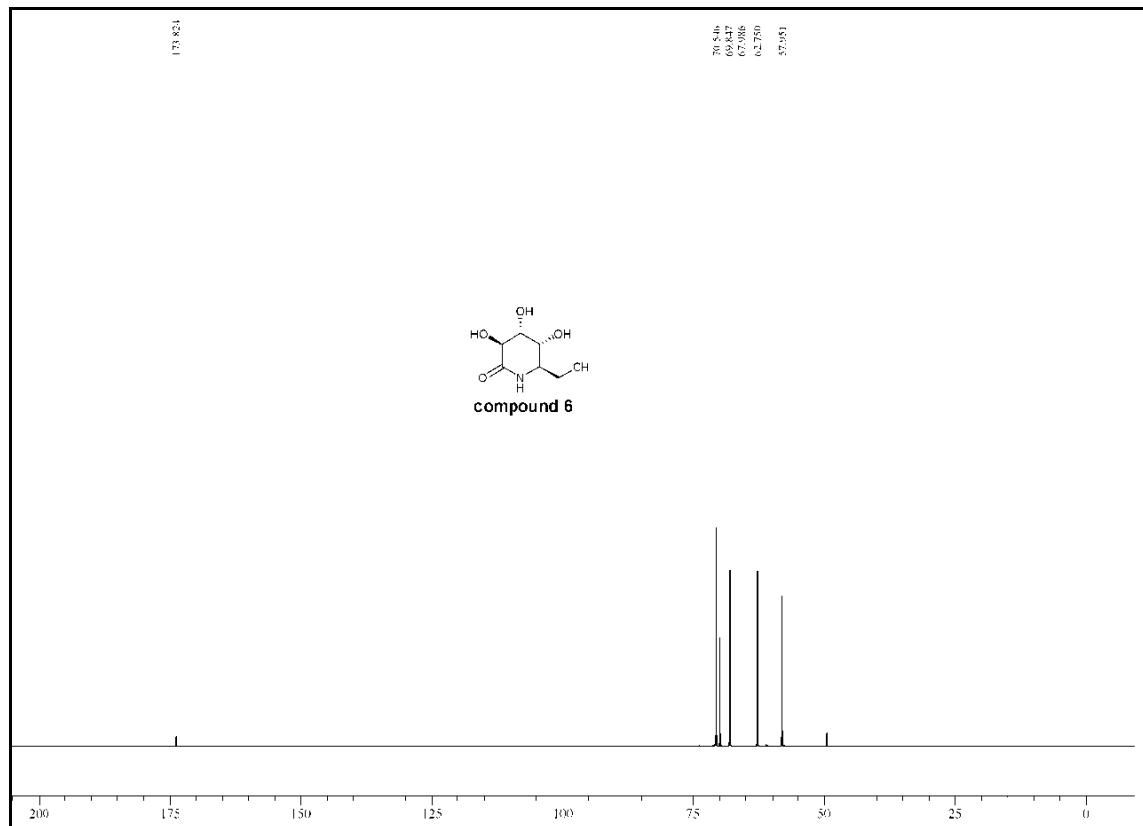
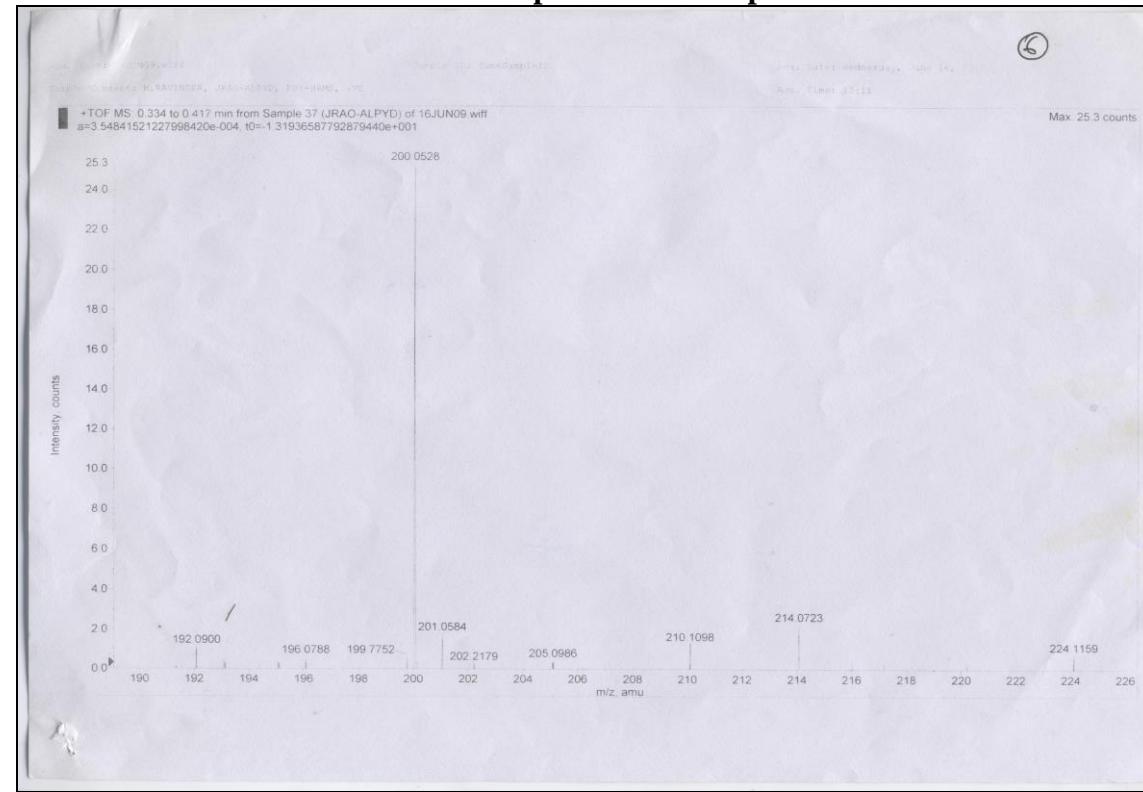
<sup>13</sup>C NMR spectrum of compound 5



HRMS spectrum of compound 5



1H NMR spectrum of compound 6

<sup>13</sup>C NMR spectrum of compound 6

HRMS spectrum of compound 6