

## Quadrangulosides A-F: New pregnane glycosides from *Caralluma quadrangula*

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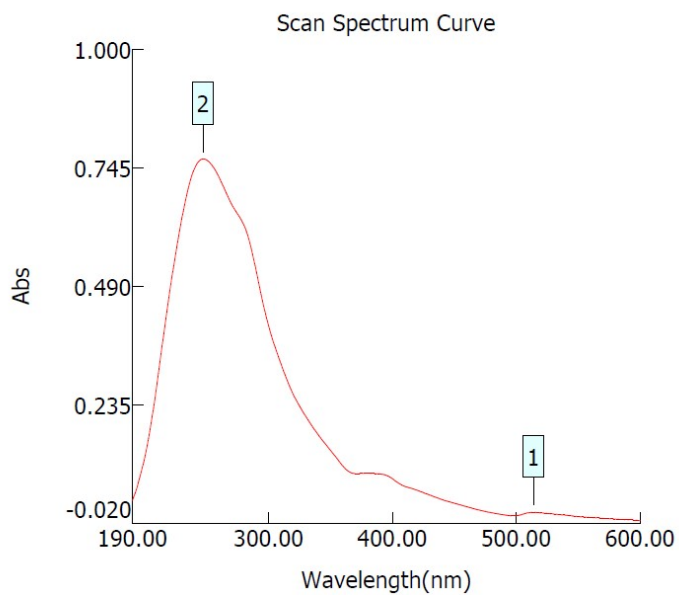
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<sup>c</sup> Chemistry Department Faculty of Applied Sciences and Humanities, Amran University, Faculty of Medicine 21 September University of Medicals and Applied Sciences, Yemen.

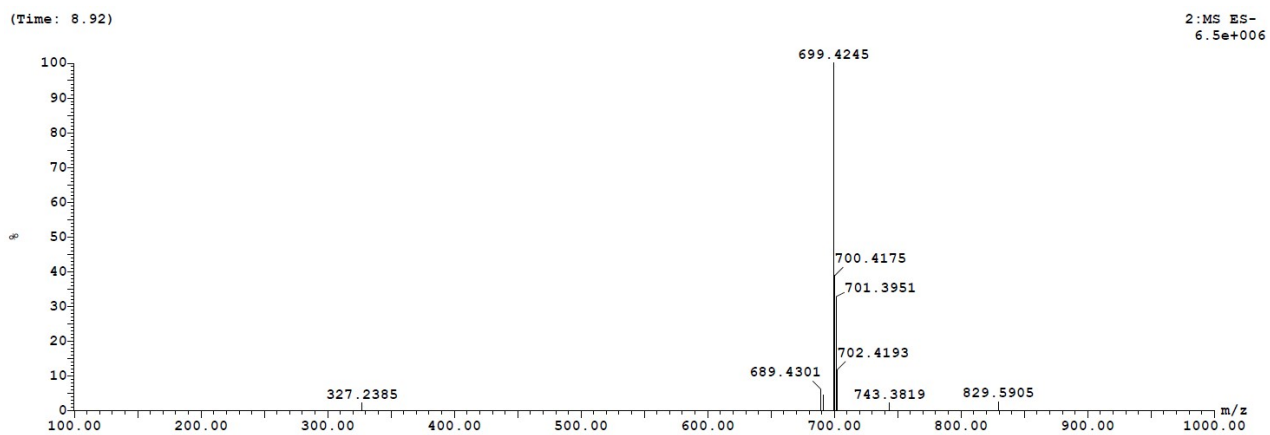
### Supporting Information

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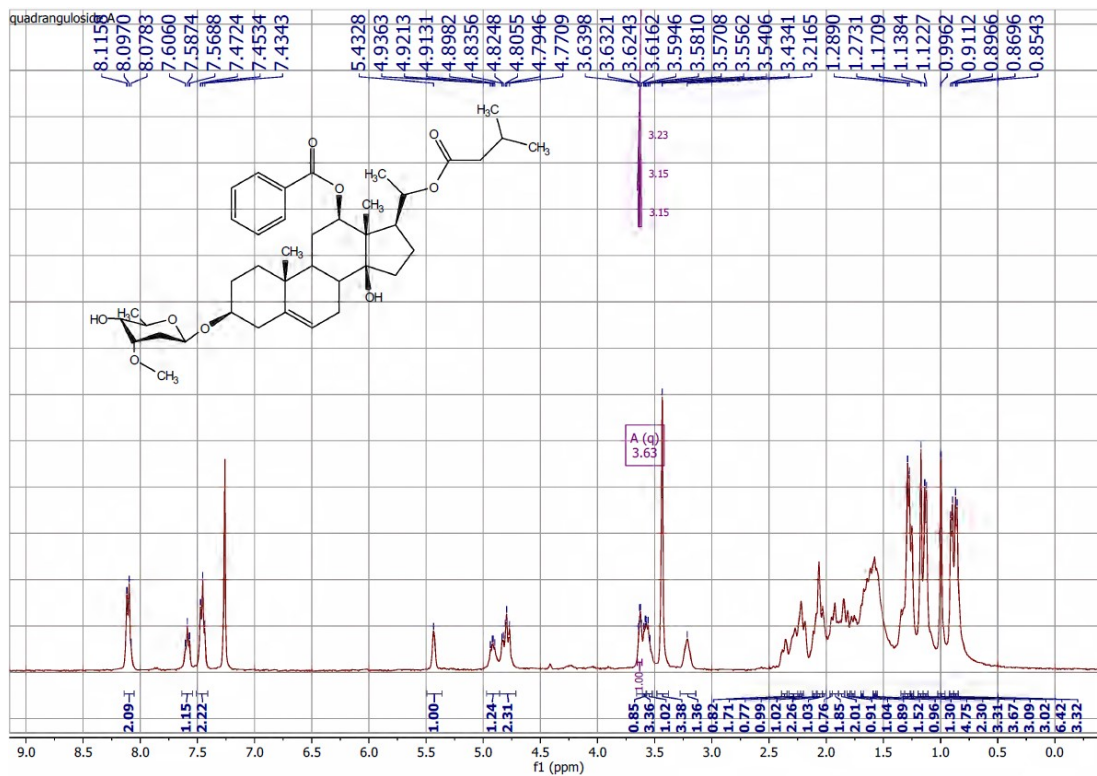
## Identification of compound 1



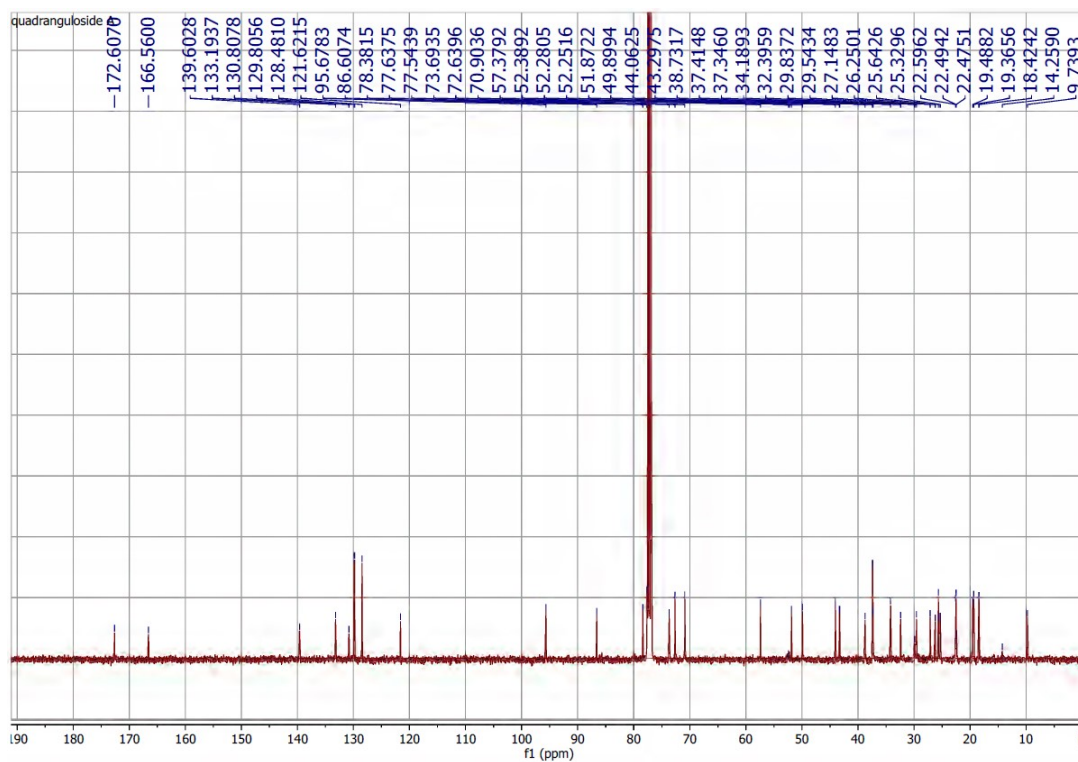
UV spectra of compound 1



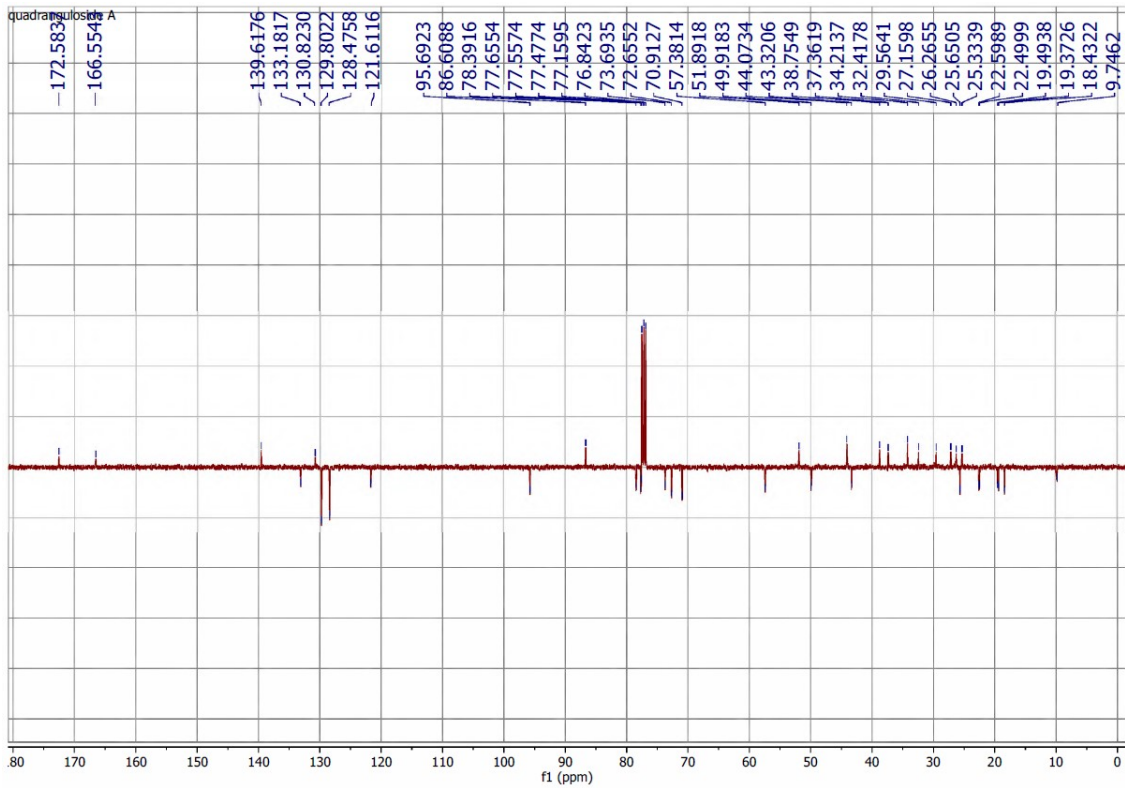
ESI-MS of compound 1



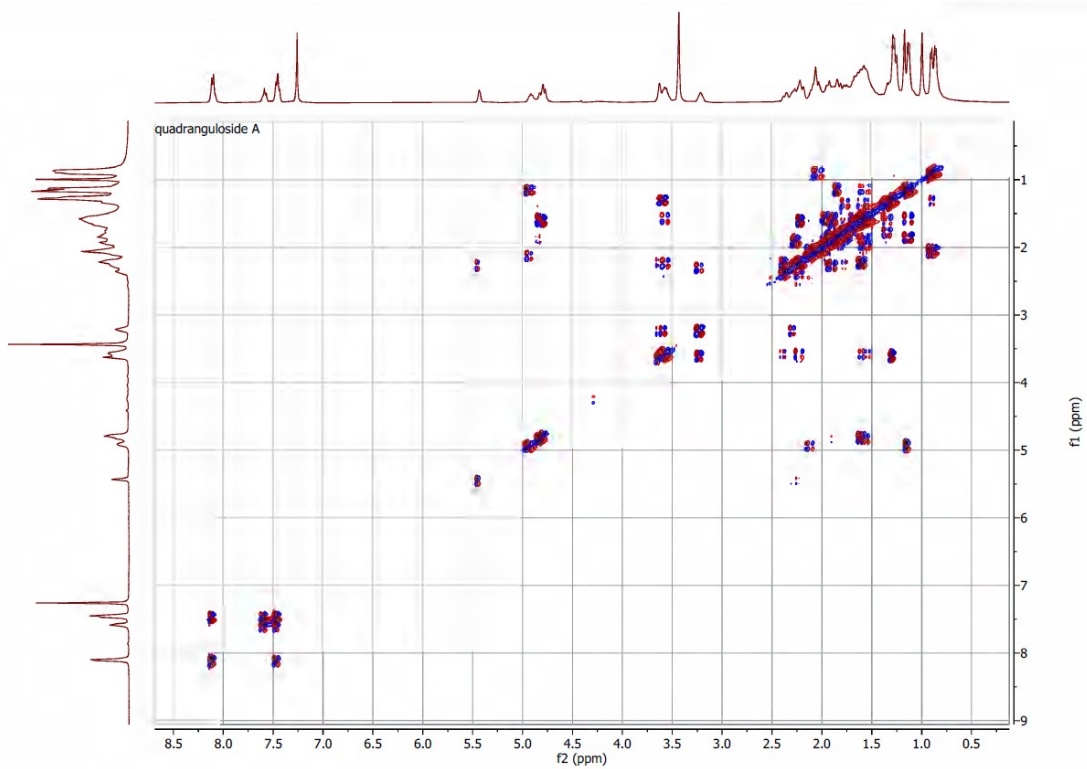
<sup>1</sup>H-NMR of Compound 1



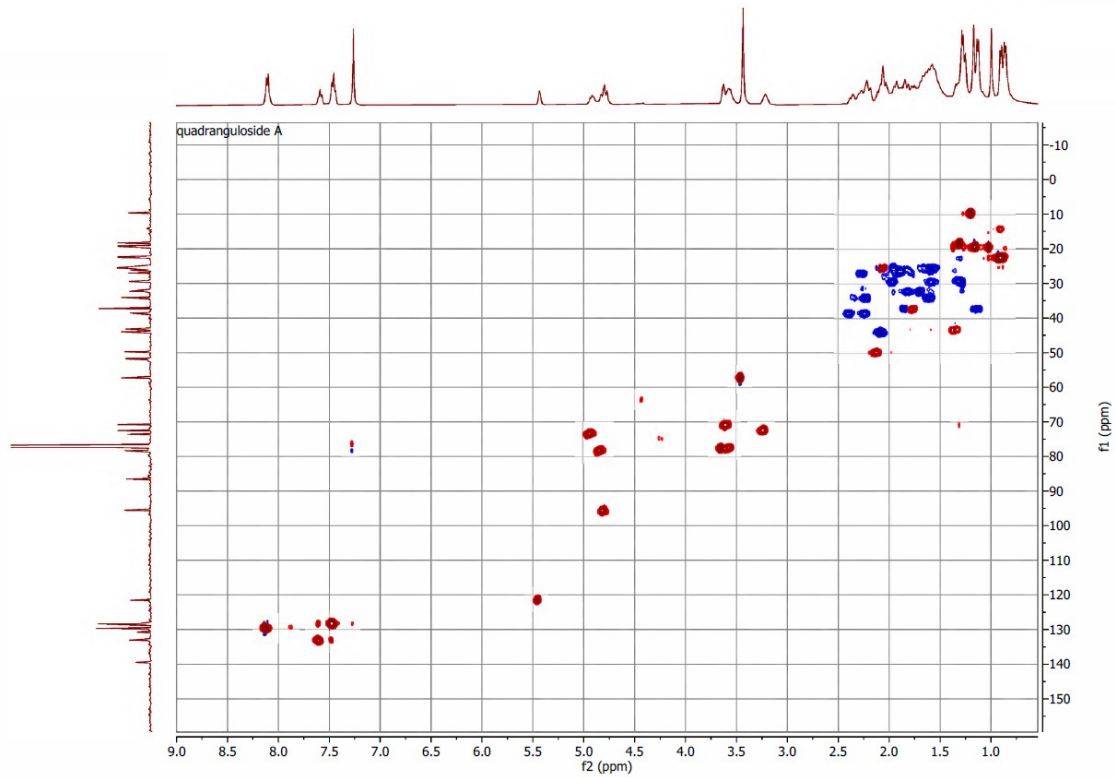
<sup>13</sup>C-NMR of Compound 1



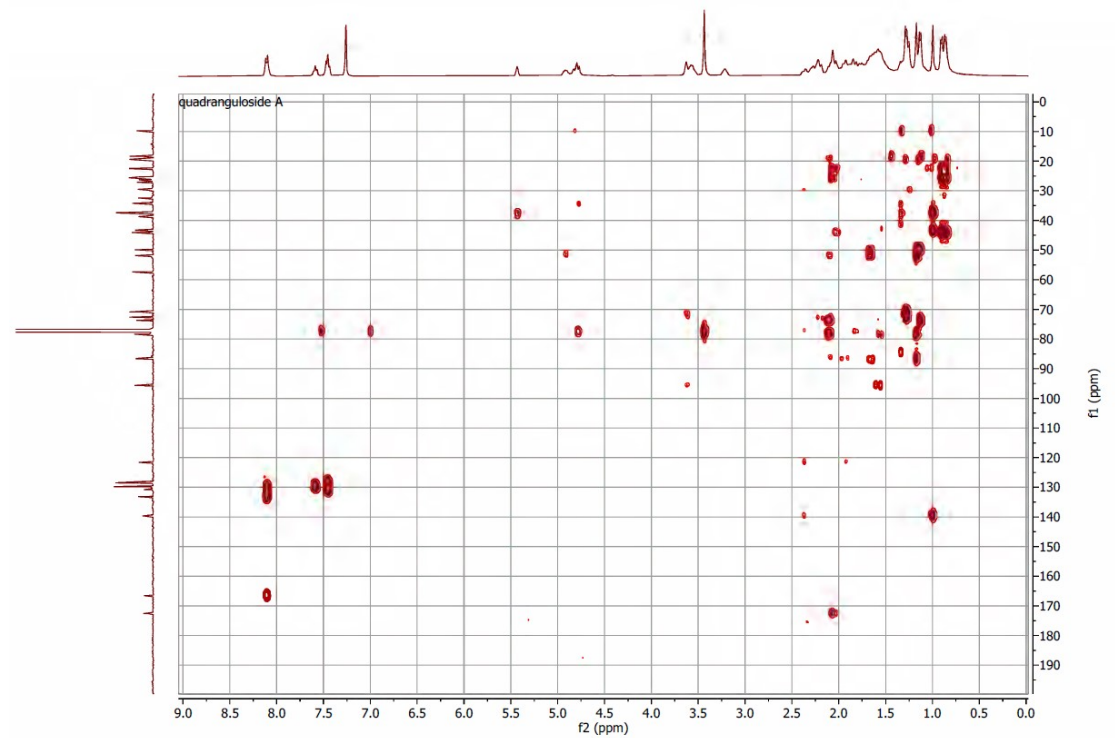
APT  $^{13}\text{C}$ -NMR of Compound 1



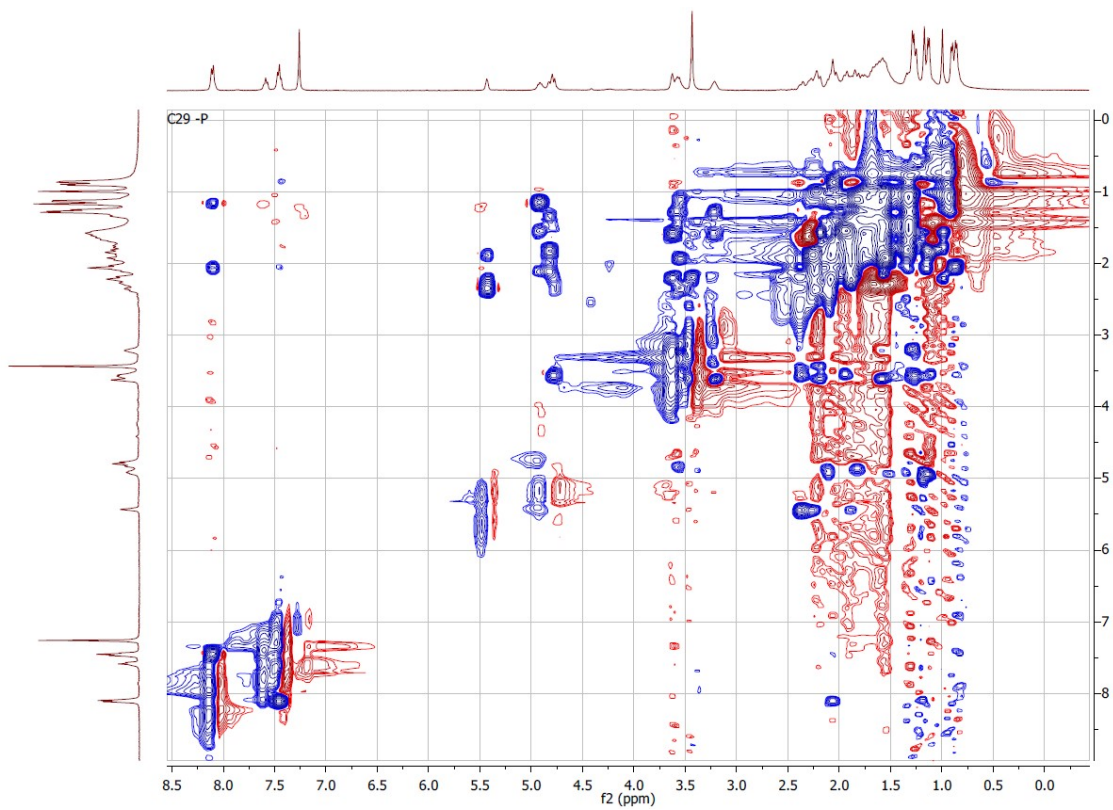
H, H COSY of Compound 1



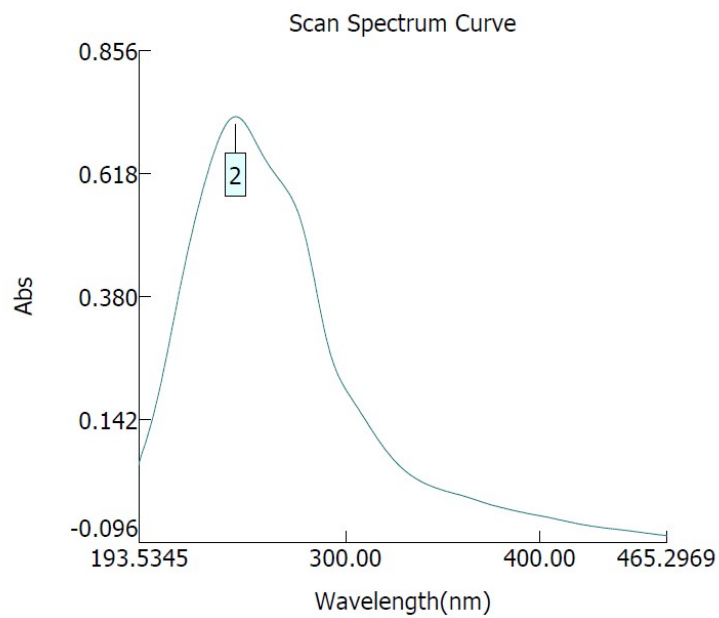
**HSQC of Compound 1**



**HMBC of Compound 1**

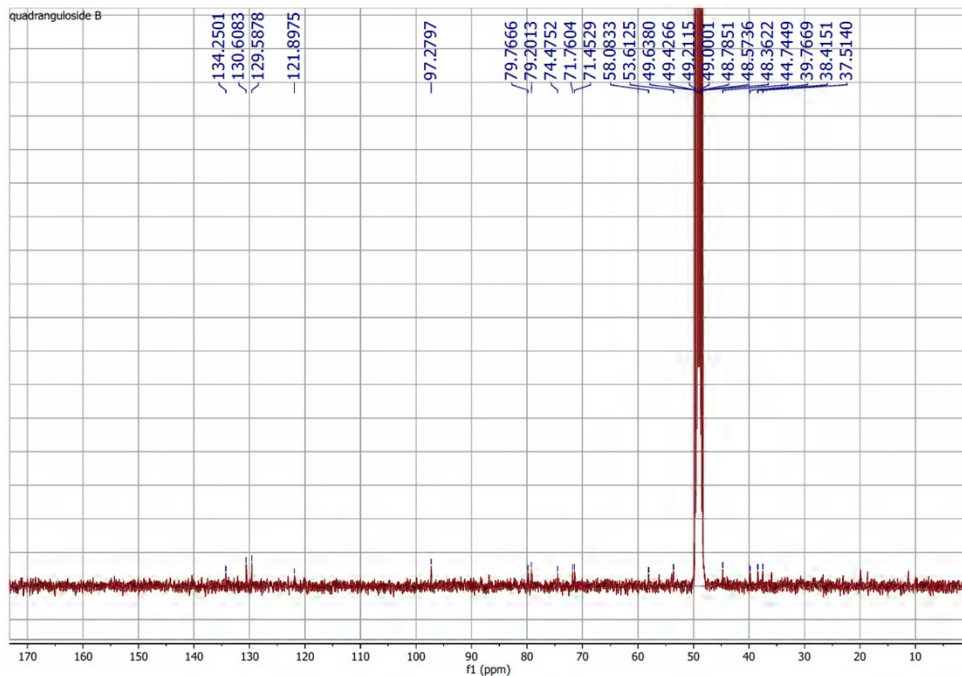


**Identification of compound 2**

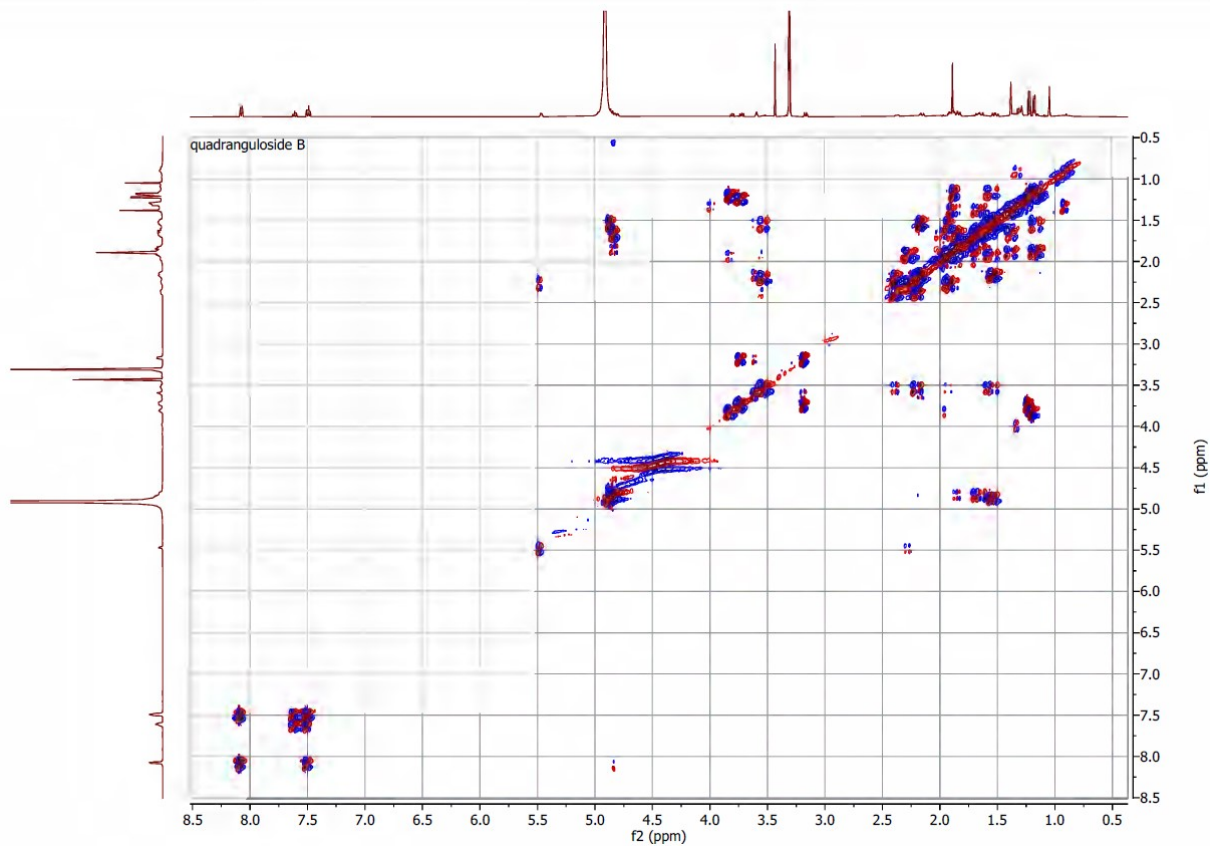






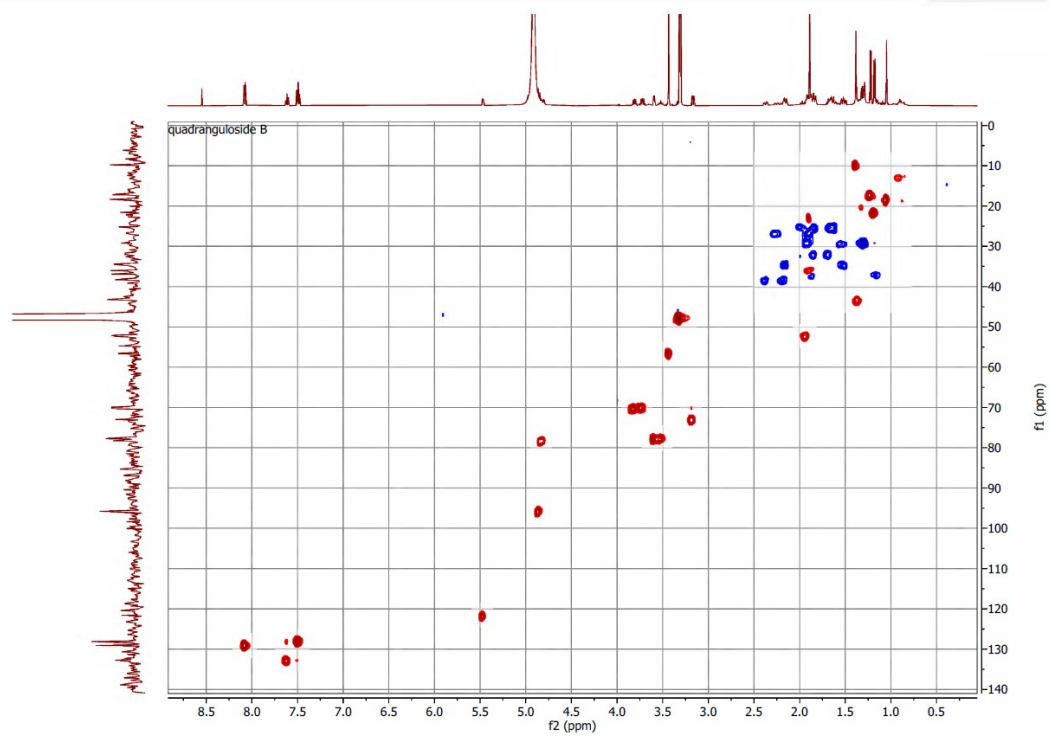


**$^{13}\text{C}$ -NMR of Compound 2**

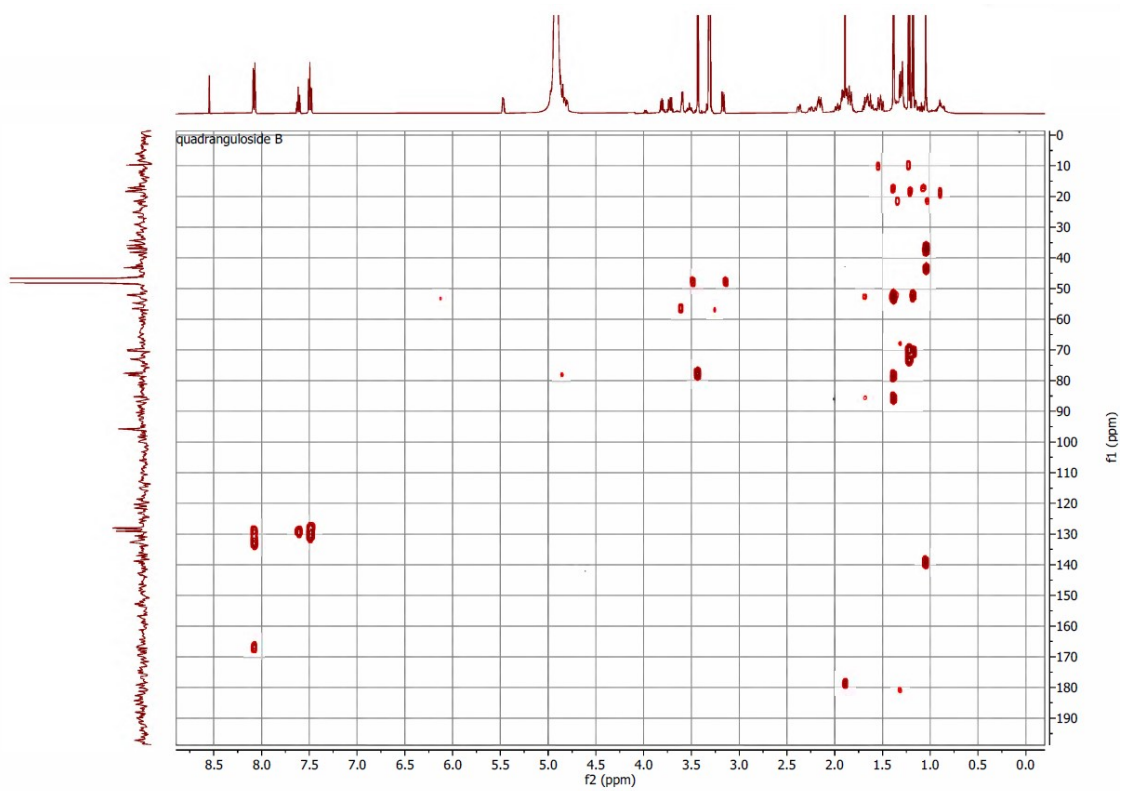


**H, H COSY of Compound 2**



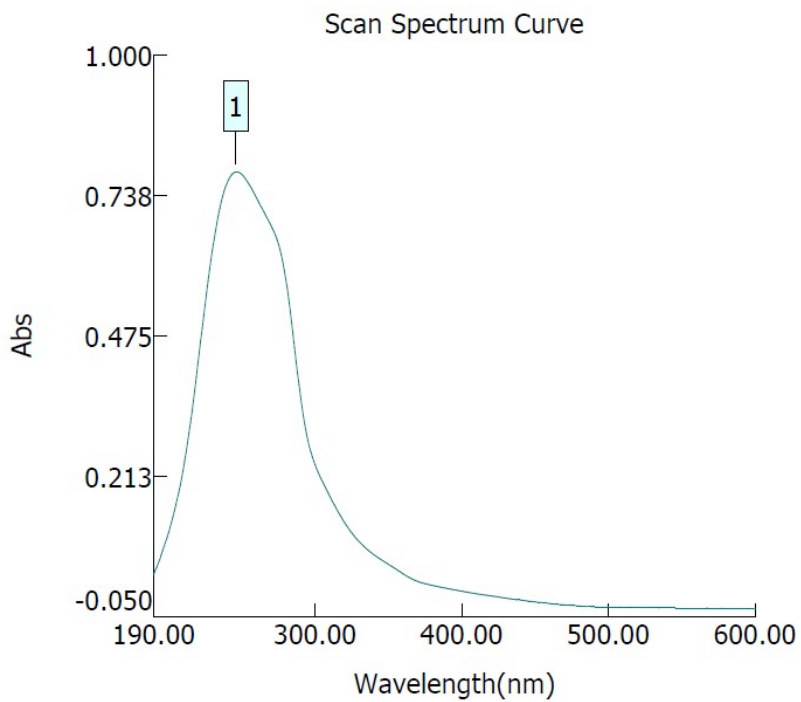


HSQC of Compound 2

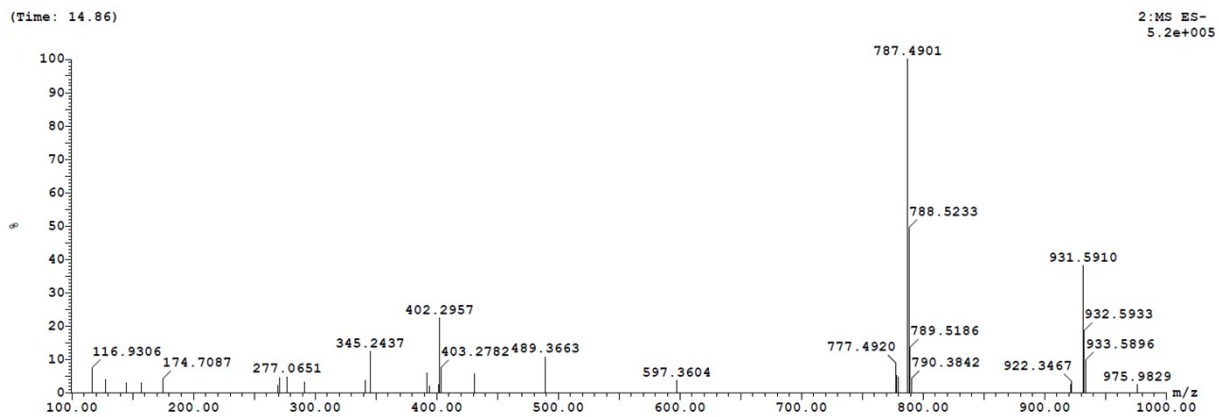


HMBC of Compound 2

### Identification of compound 3

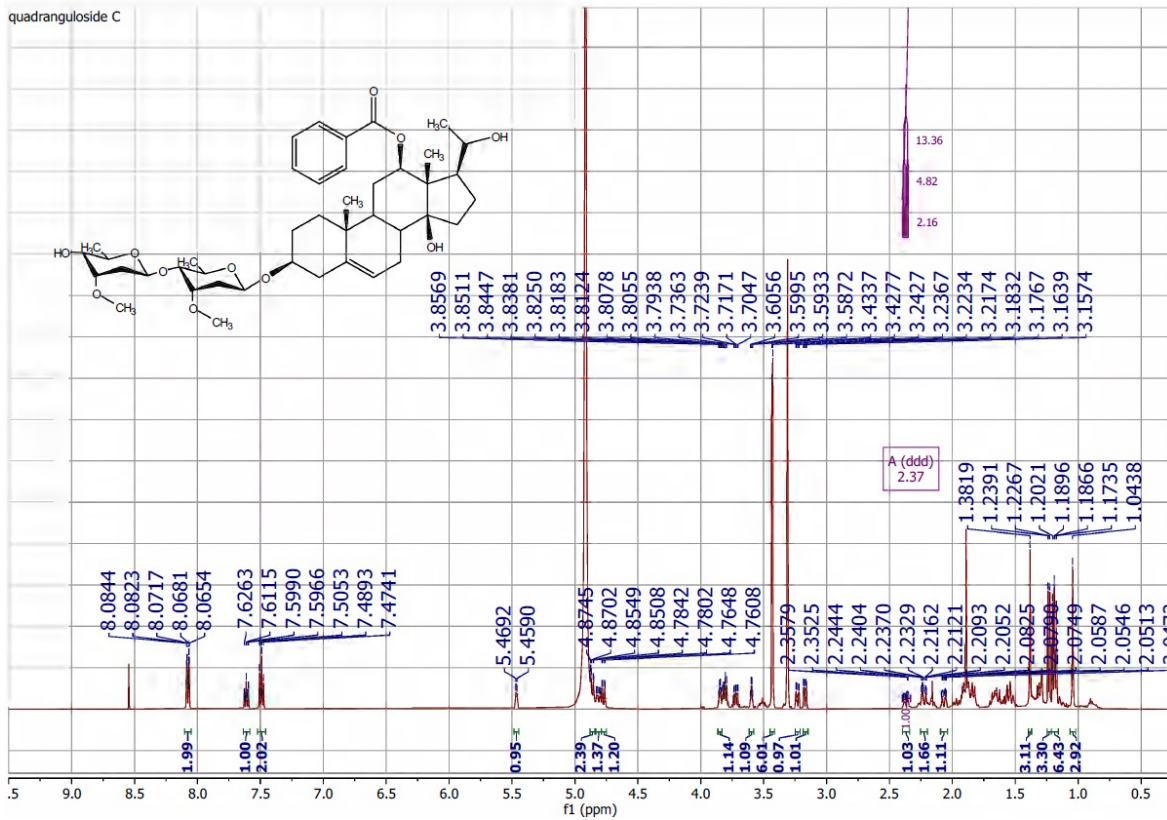


UV Spectra of Compound 3

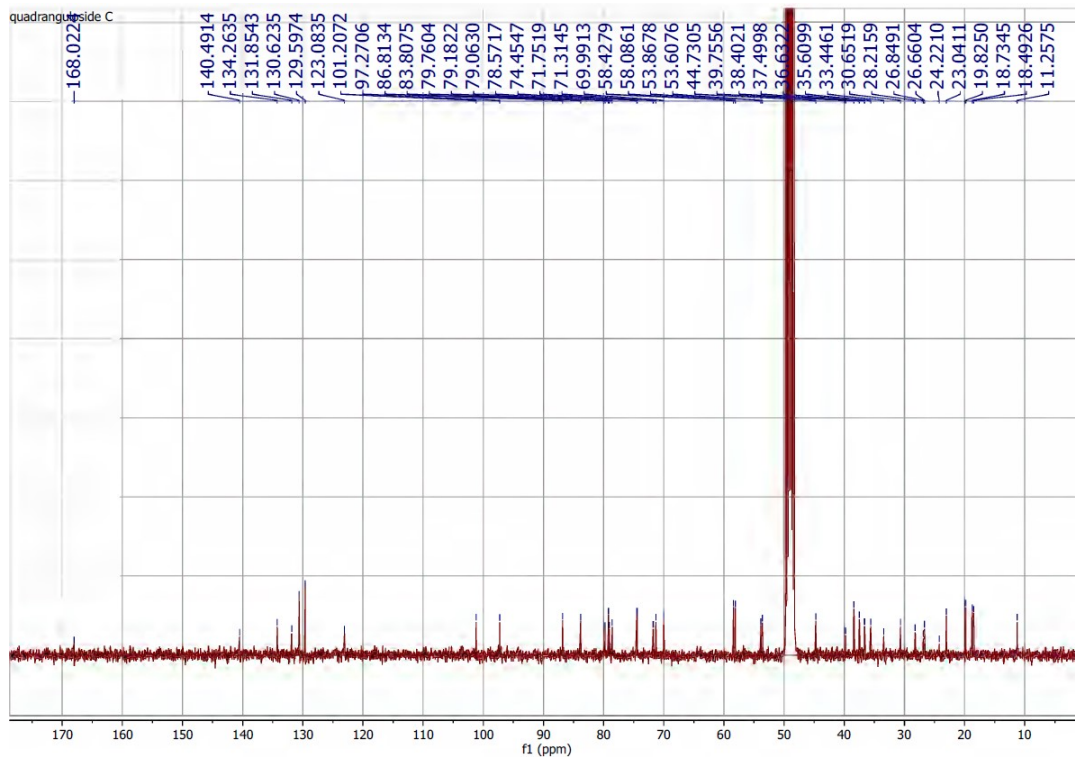


ESI-MS of compound 3

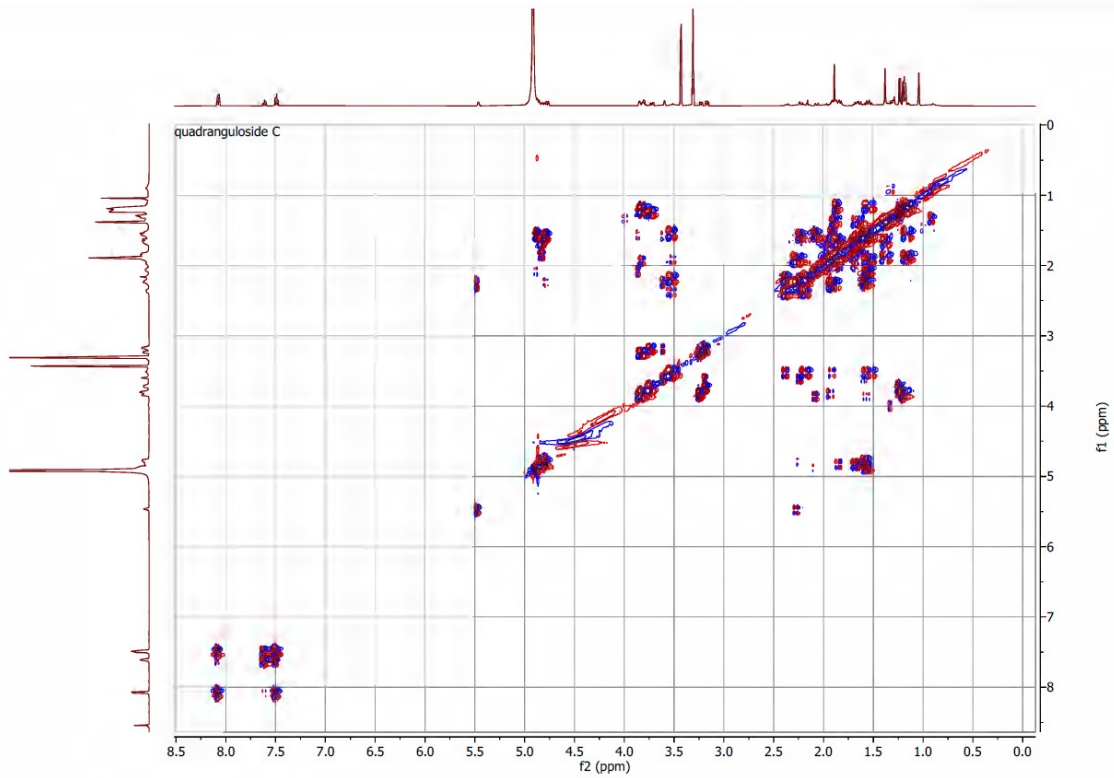
quadranguloside C



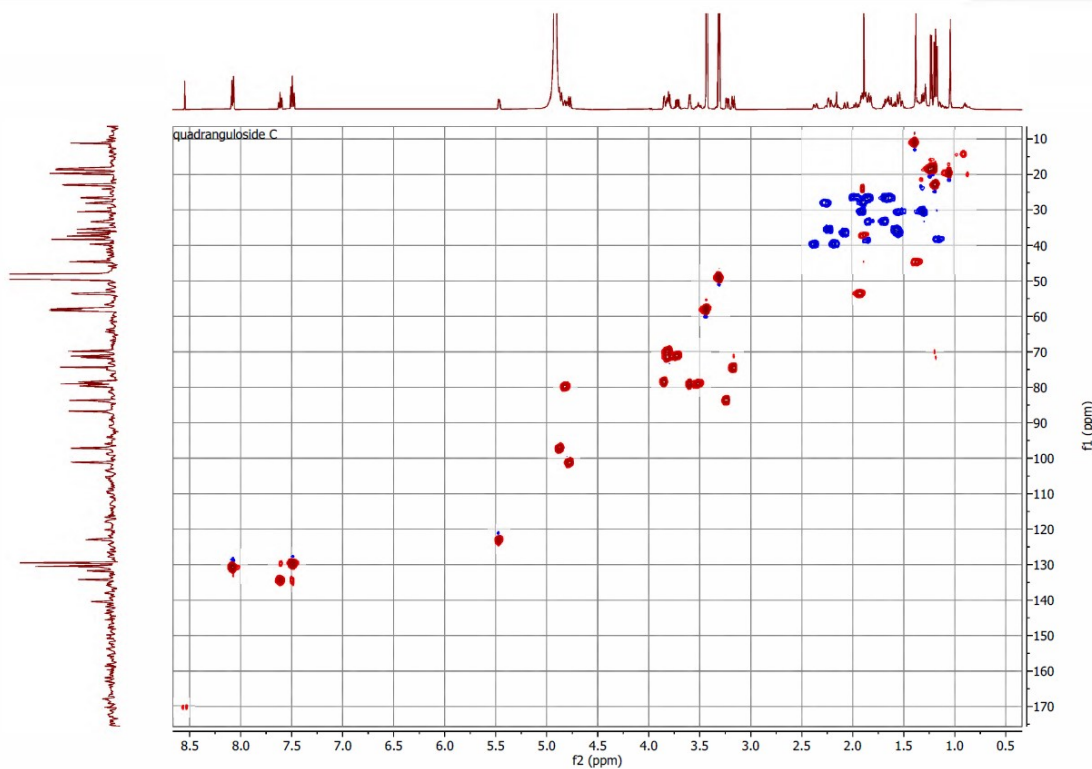
<sup>1</sup>H-NMR of Compound 3



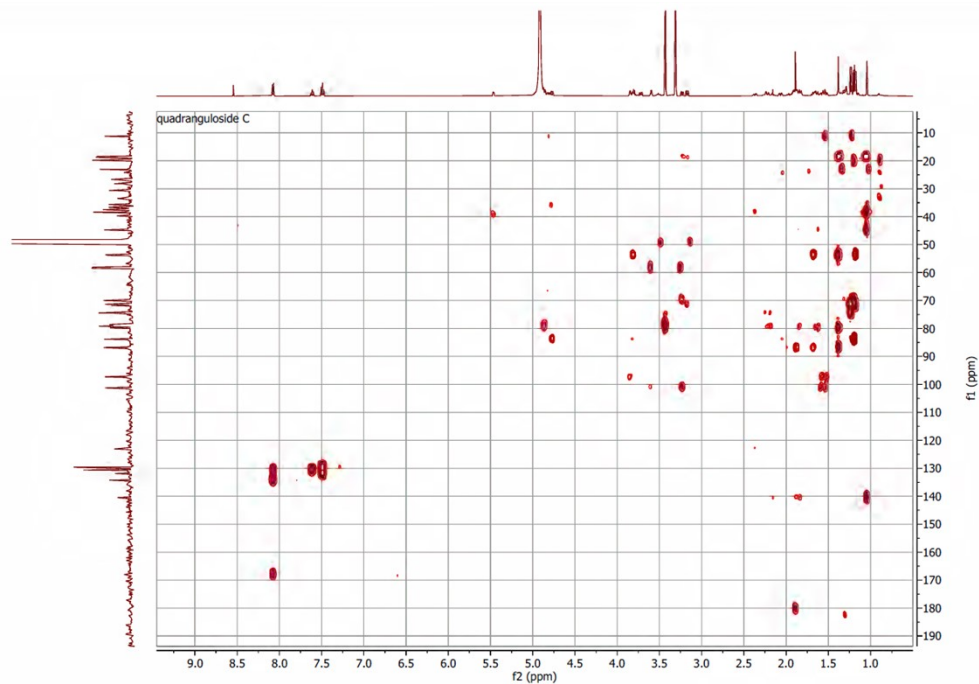
<sup>13</sup>C-NMR of Compound 3



H, H COSY of Compound 3

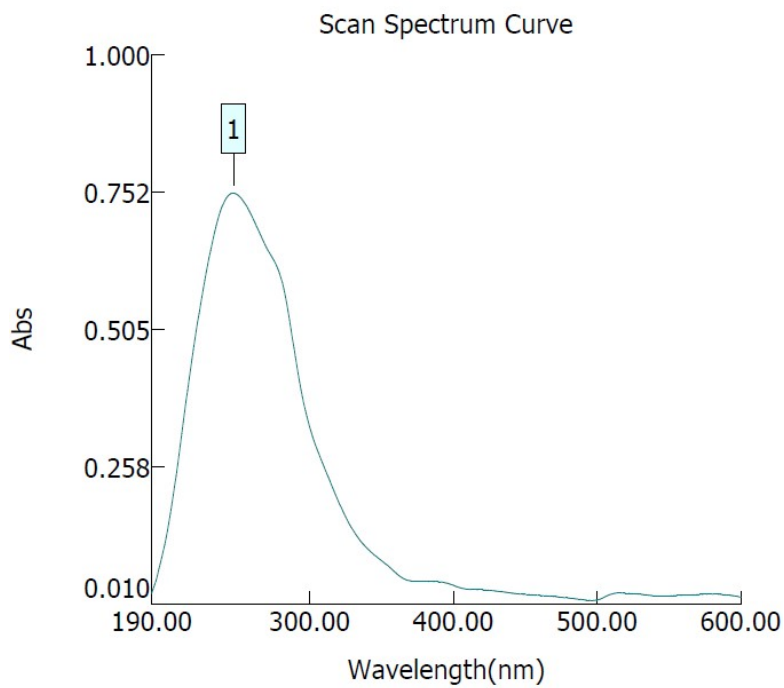


HSQC of Compound 3



**HMBC of Compound 3**

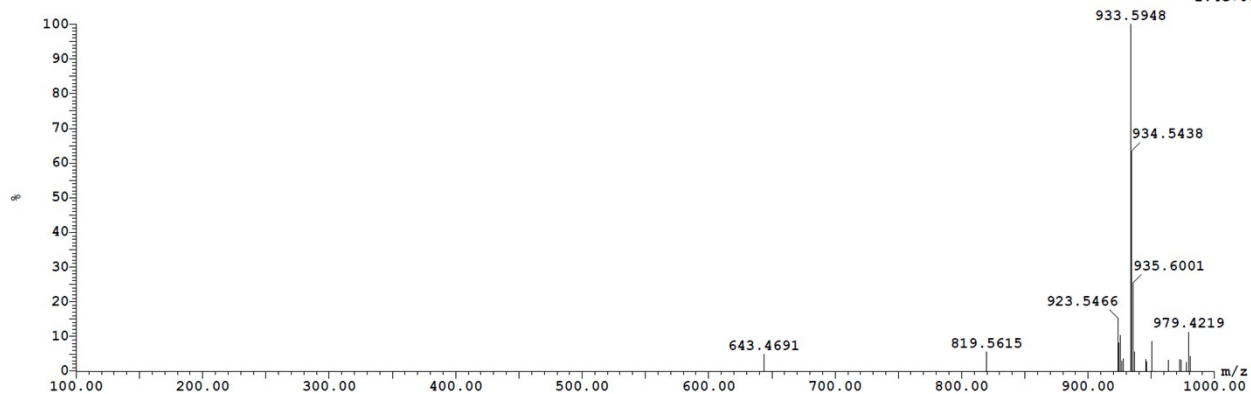
**Identification of compound 4**



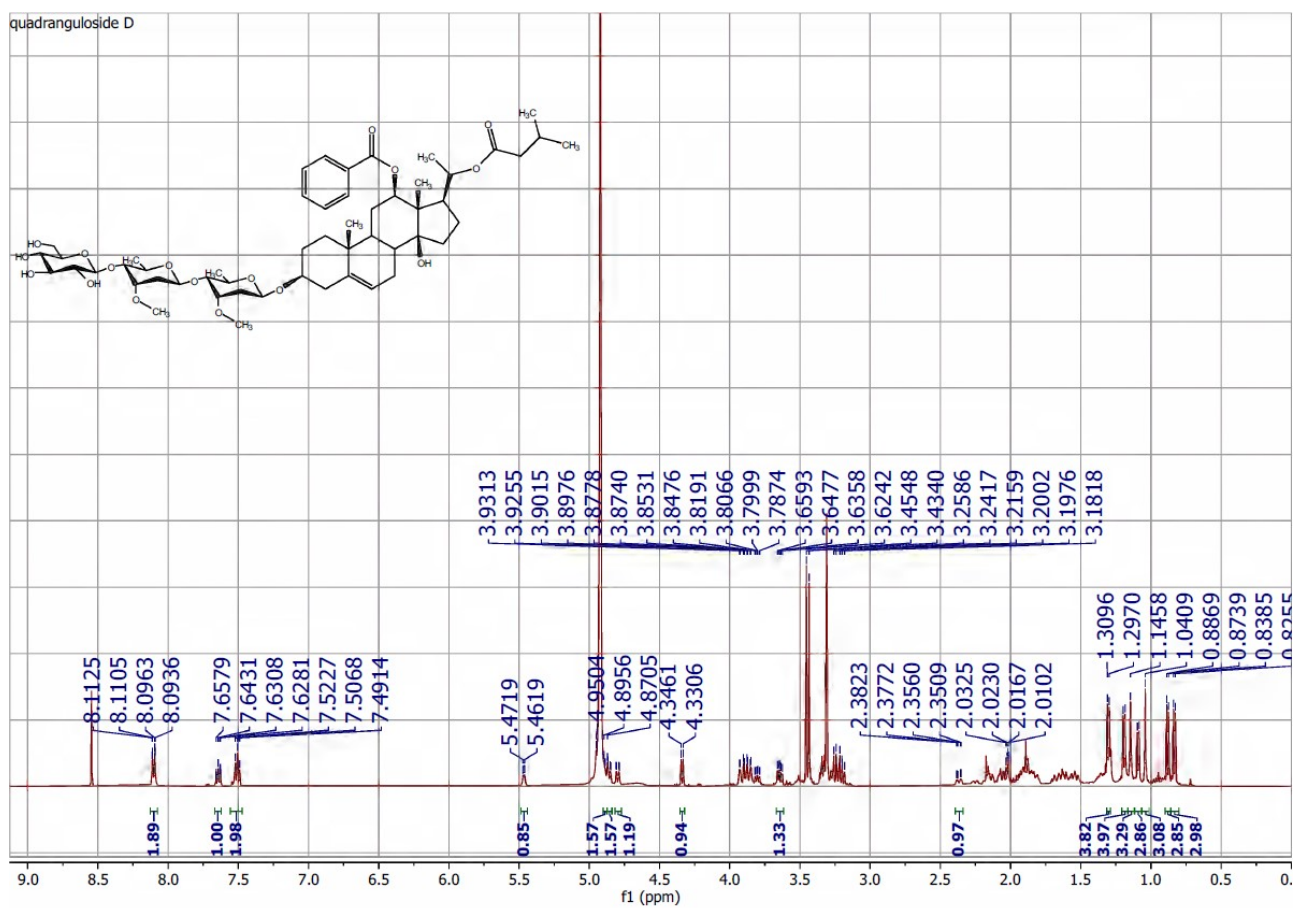
**UV Spectra of Compound 4**

(Time: 13.38)

2:MS ES-  
1.4e+006

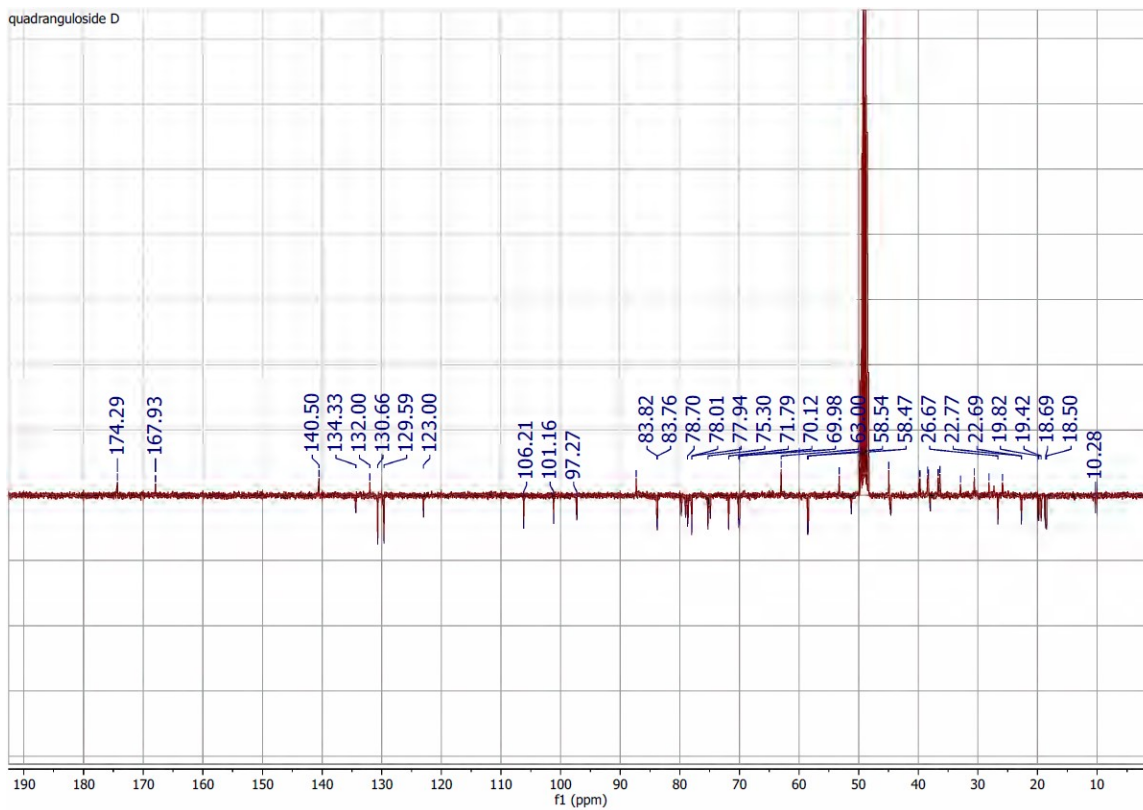


### ESI-MS of compound 4

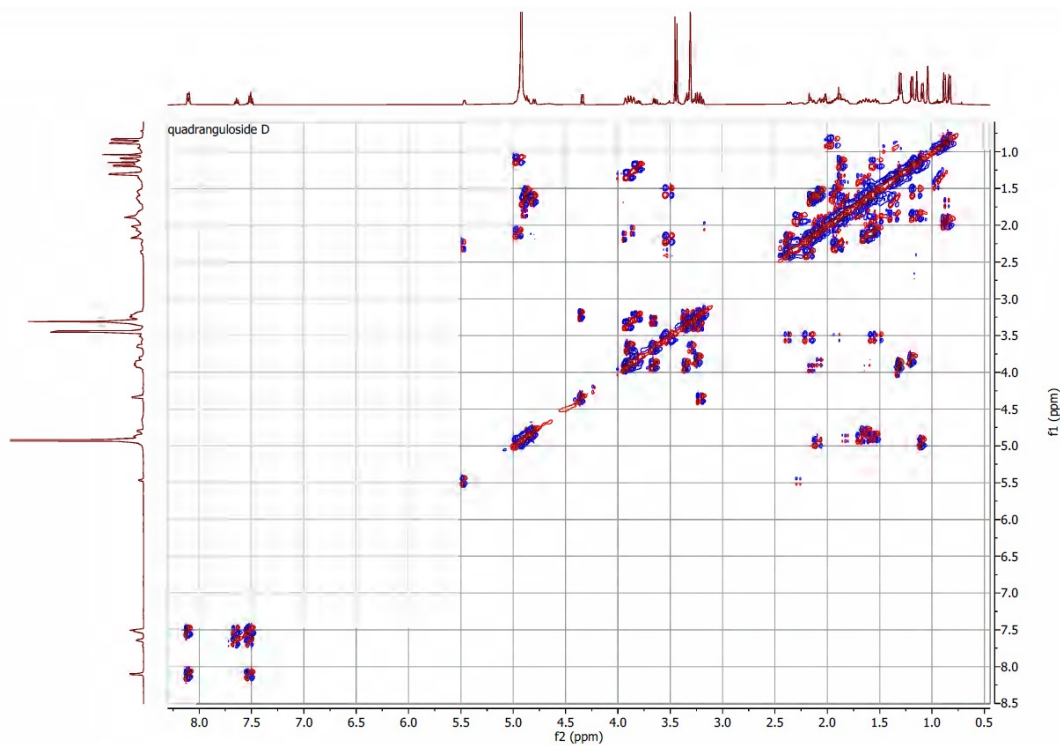


### 1H-NMR of Compound 4

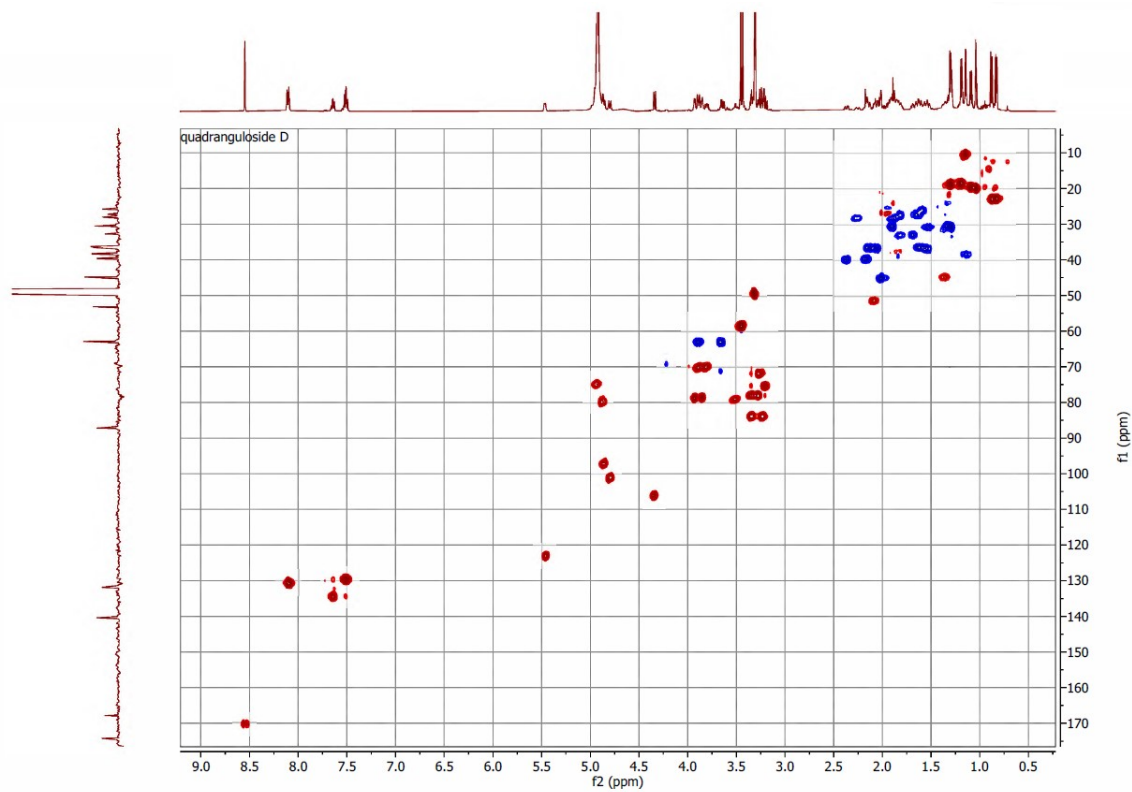




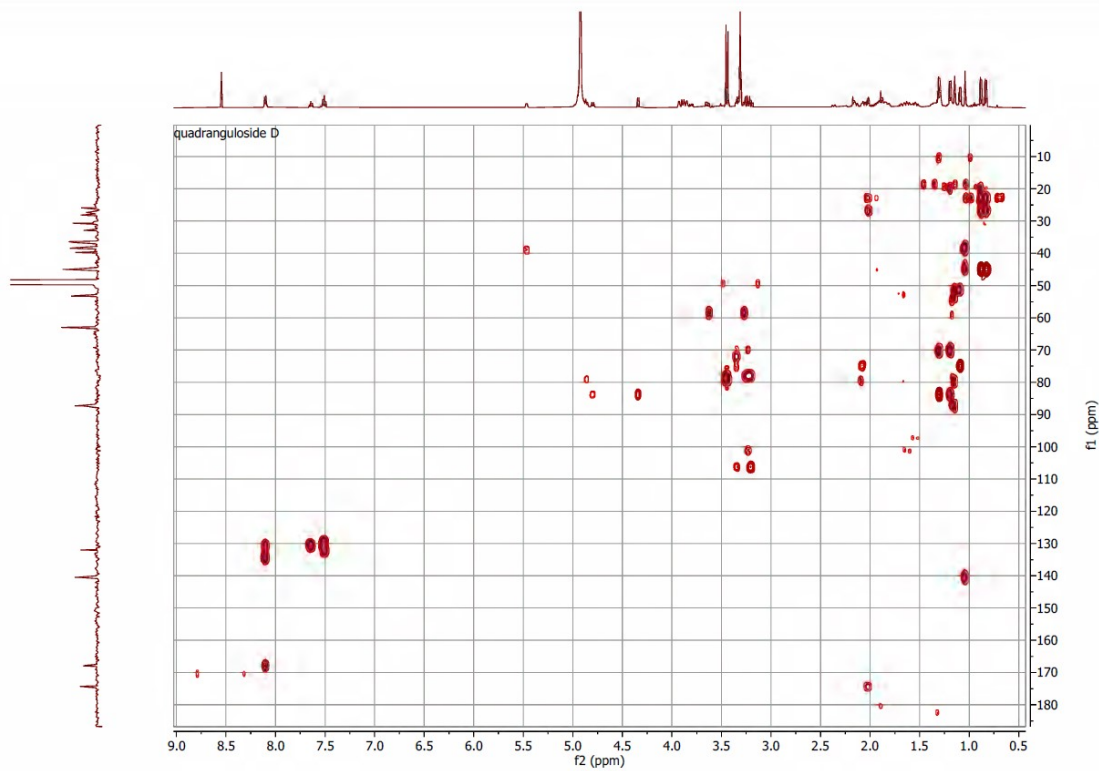
**<sup>13</sup>C-NMR of Compound 4**



**H, H COSY of Compound 4**

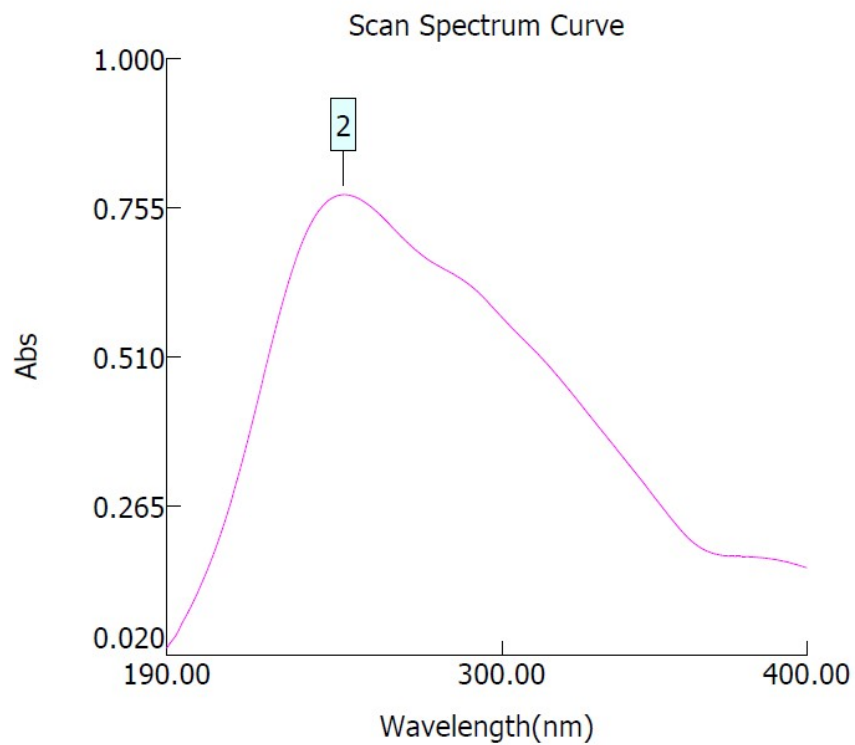


HSQC of Compound 4

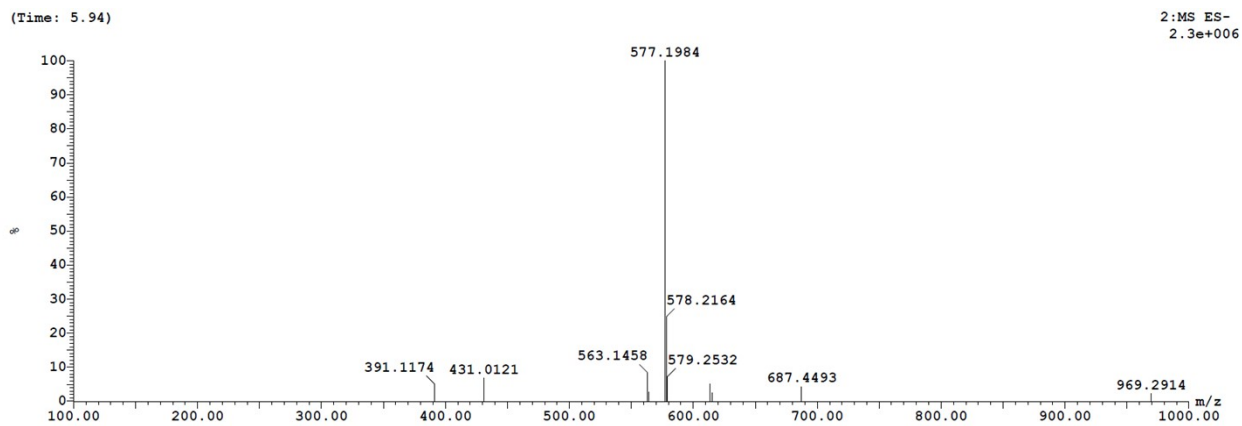


HMBC of Compound 4

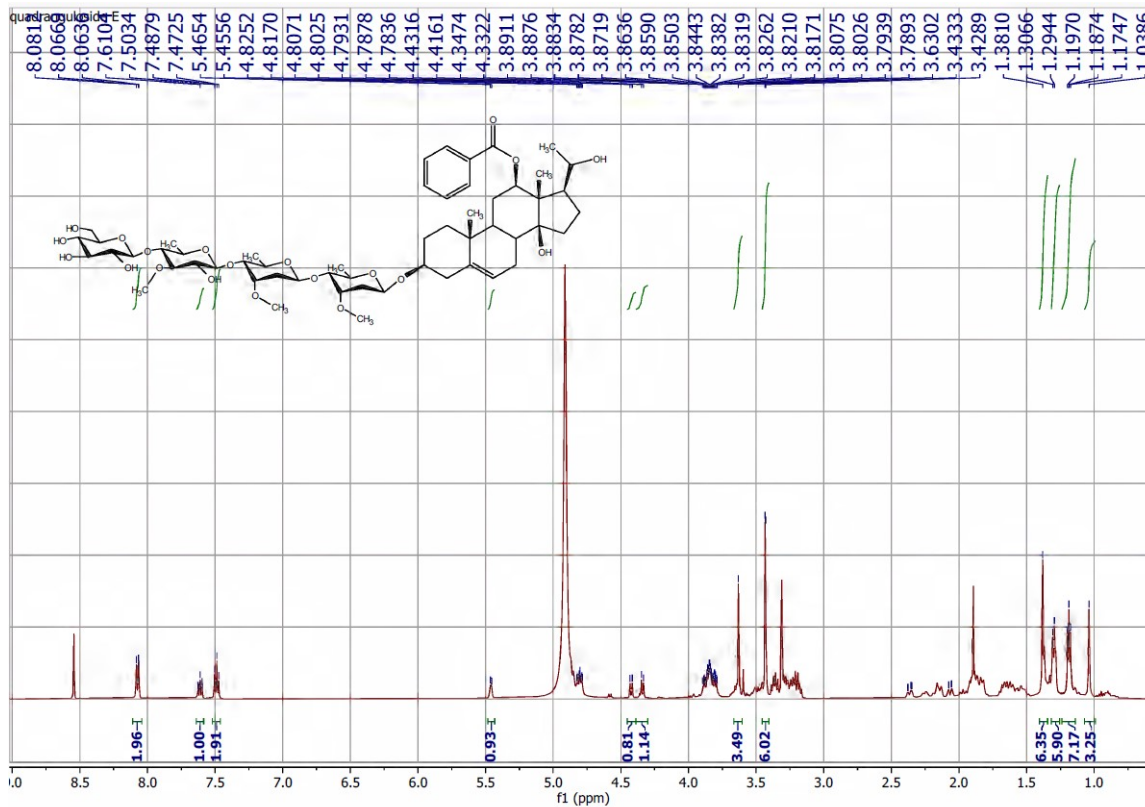
## Identification of compound 5



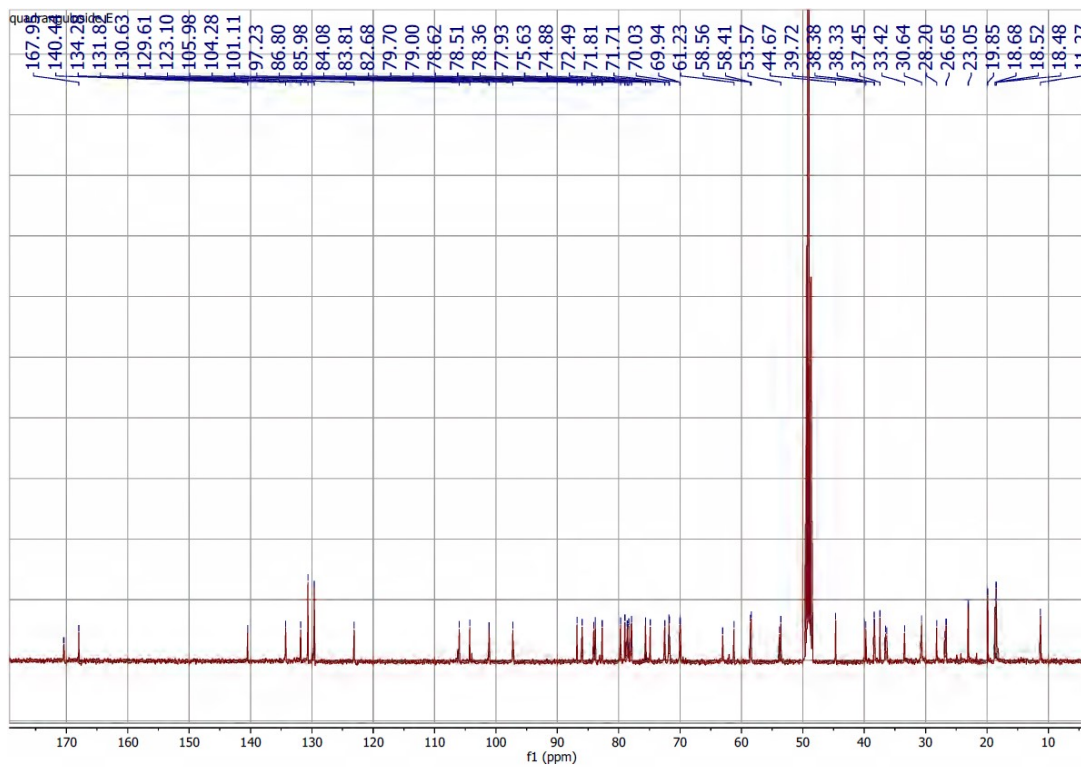
## UV Spectra of Compound 5



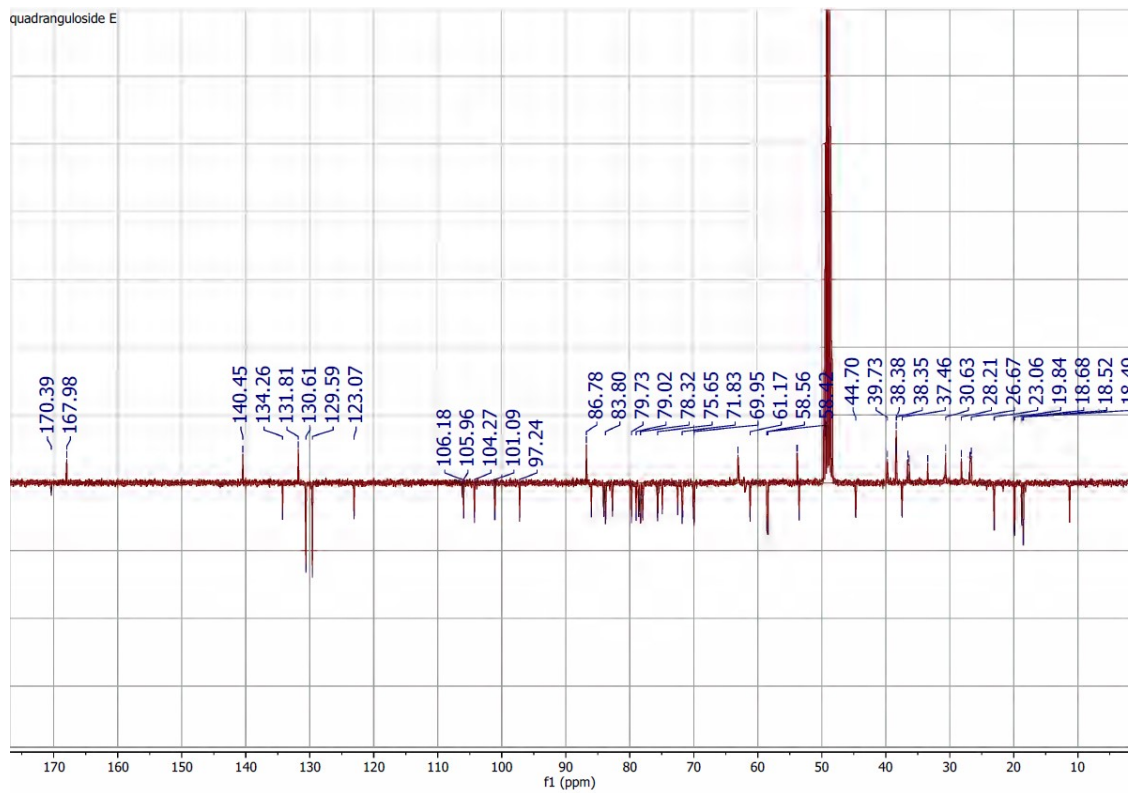
## ESI-MS of compound 5



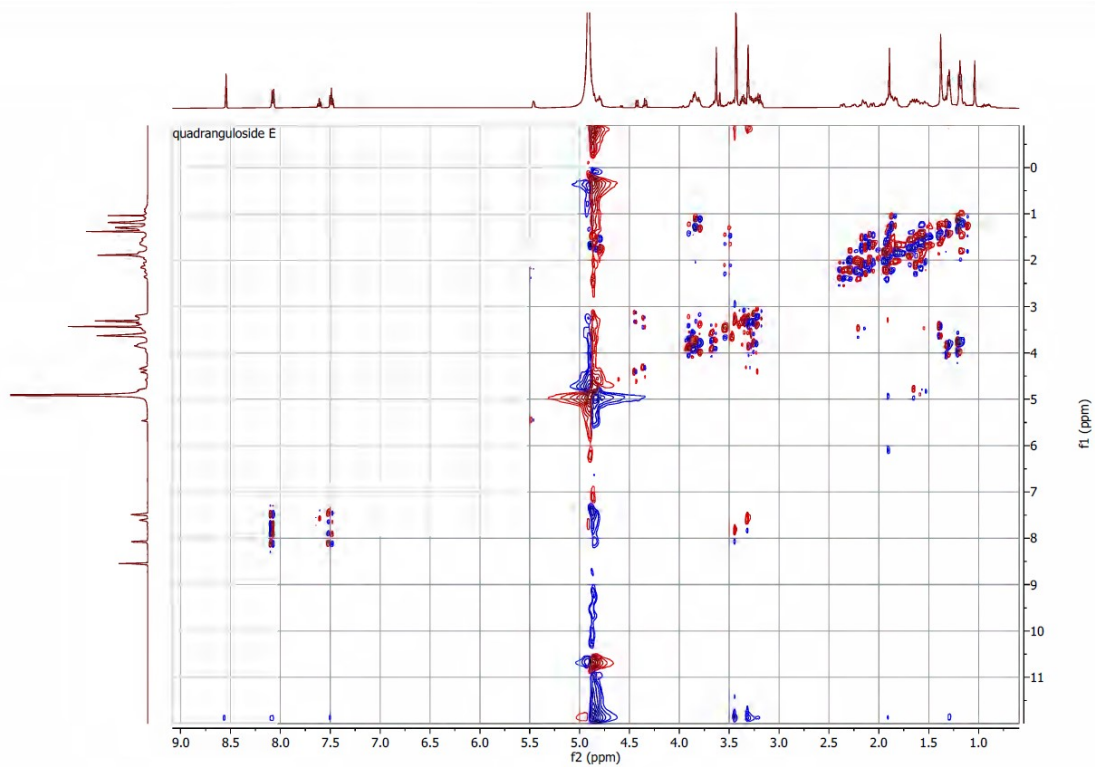
1H-NMR of Compound 5



13C-NMR of Compound 5

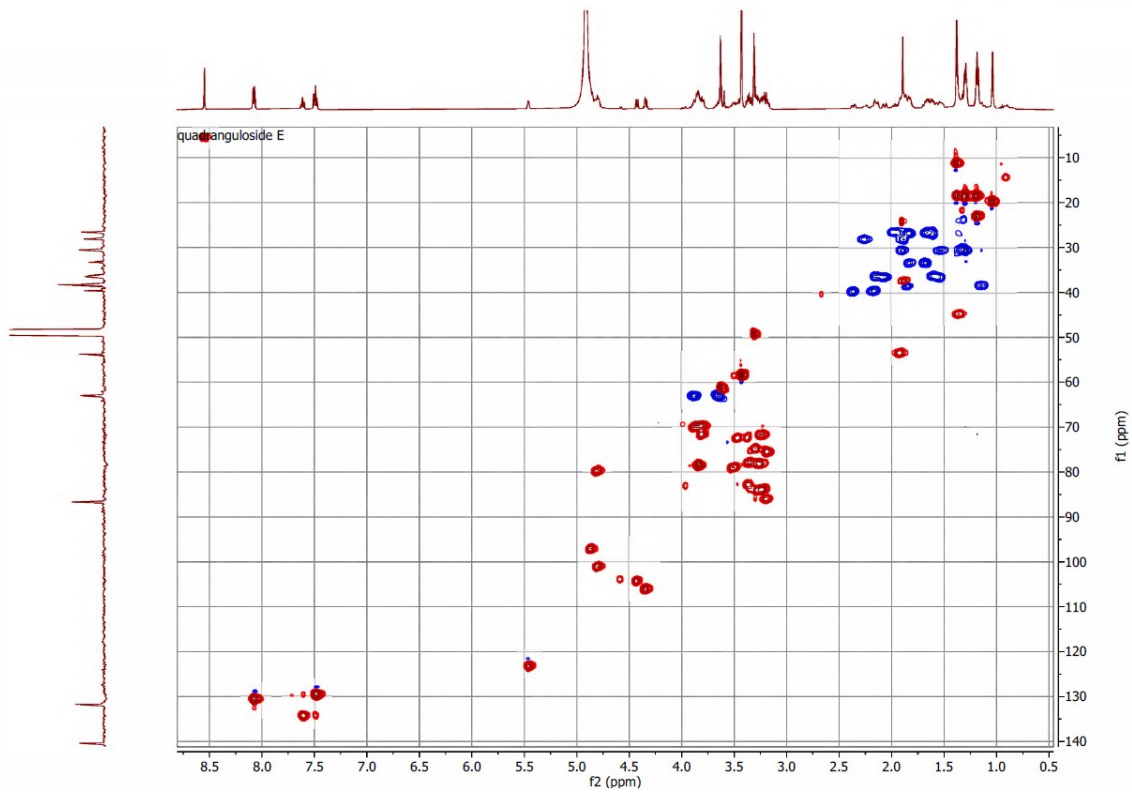


APT  $^{13}\text{C}$ -NMR of Compound 5

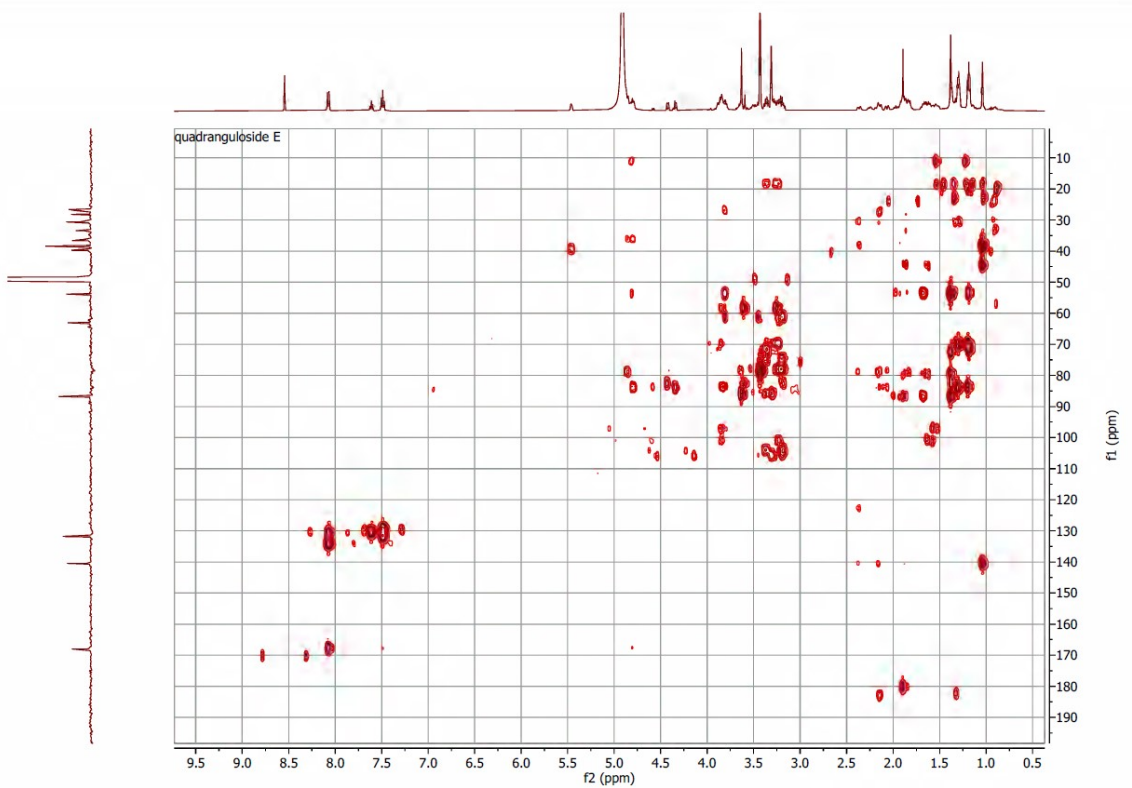


H, H COSY of Compound 5





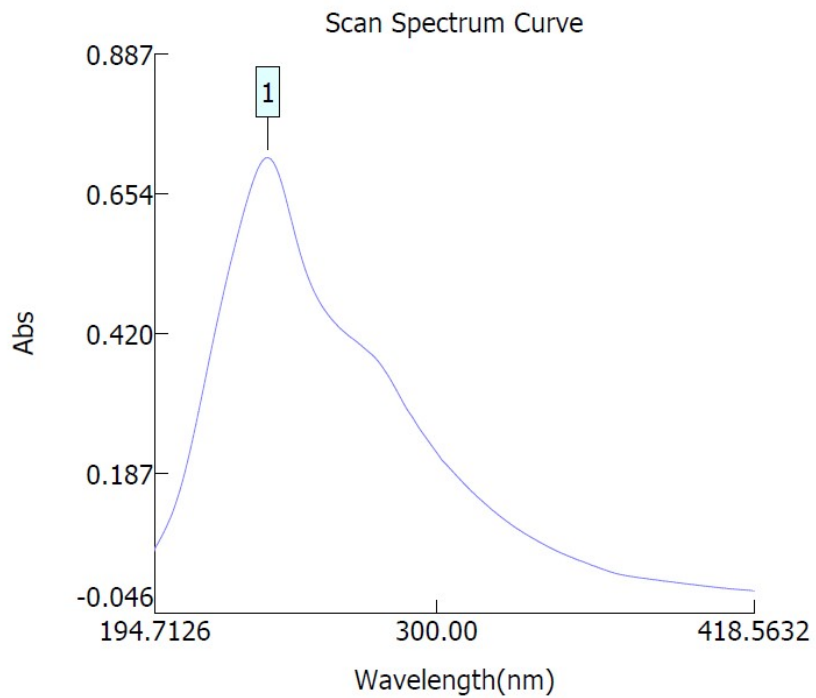
HSQC of Compound 5



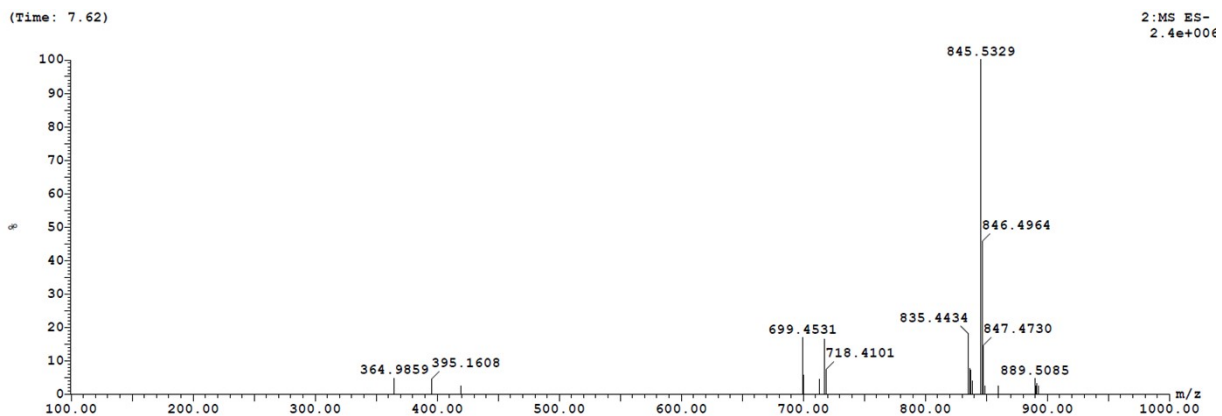
HMBC of Compound 5



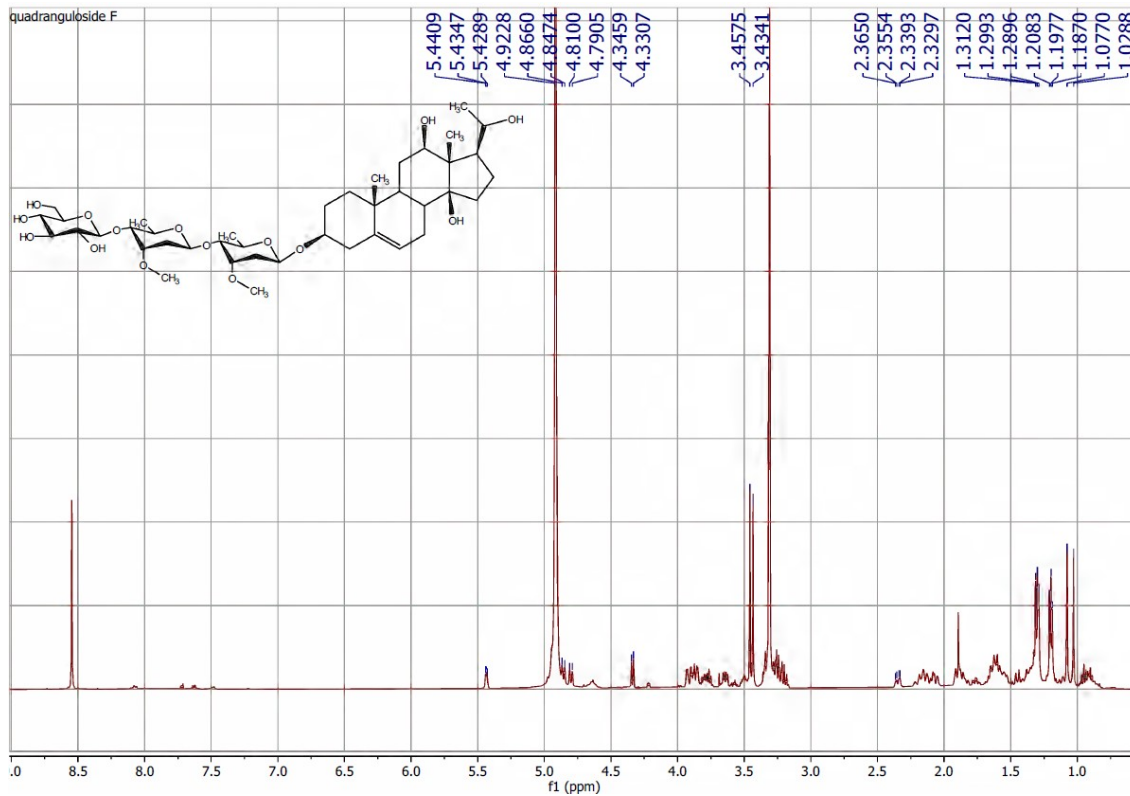
## Identification of compound 5



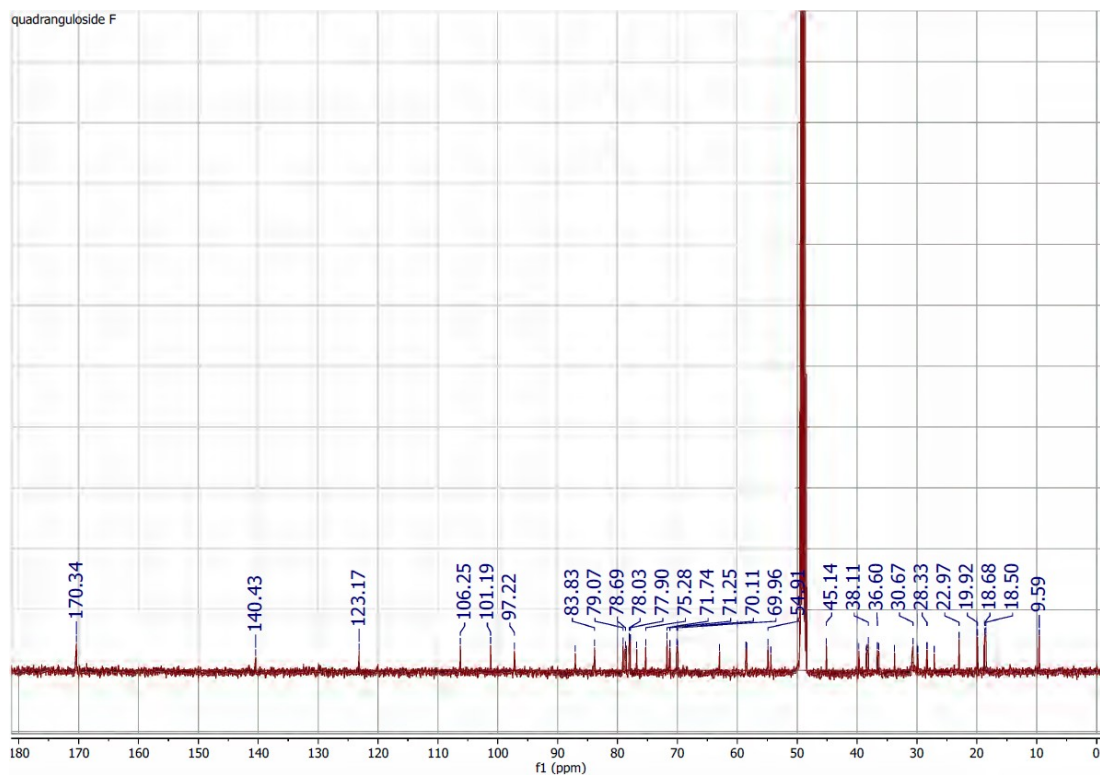
## UV Spectra of Compound 6



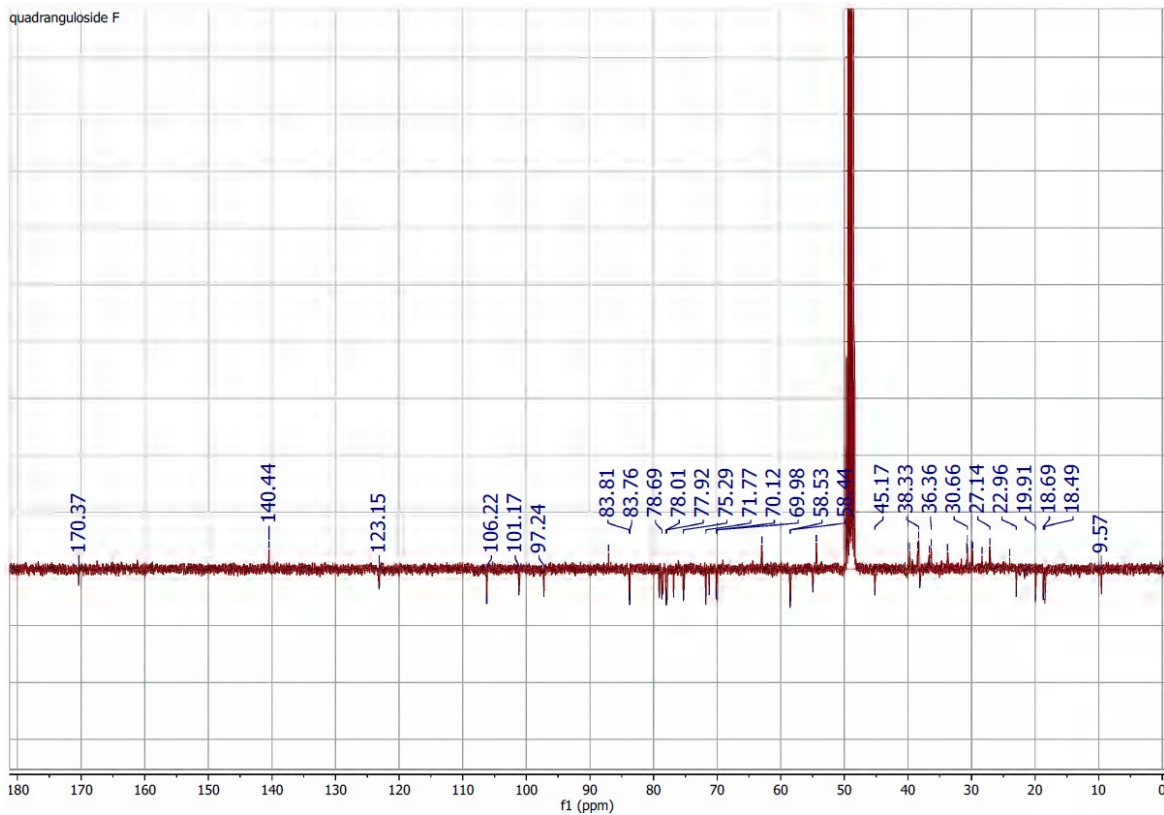
## ESI-MS of compound 6



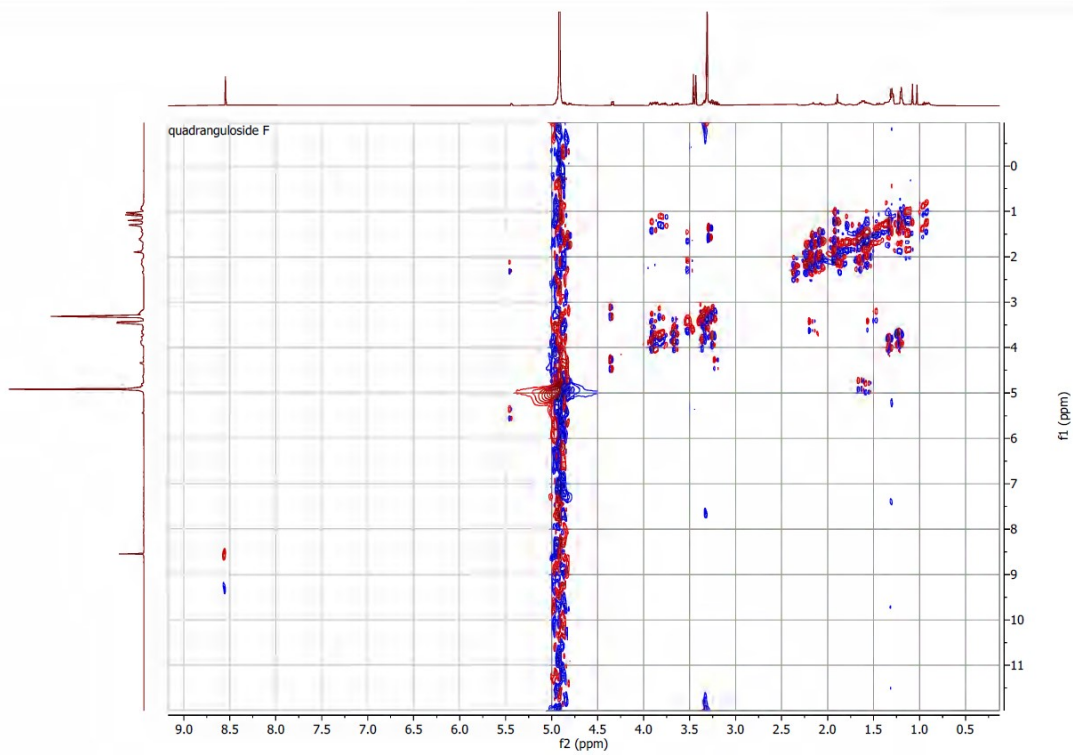
**<sup>1</sup>H-NMR of Compound 6**



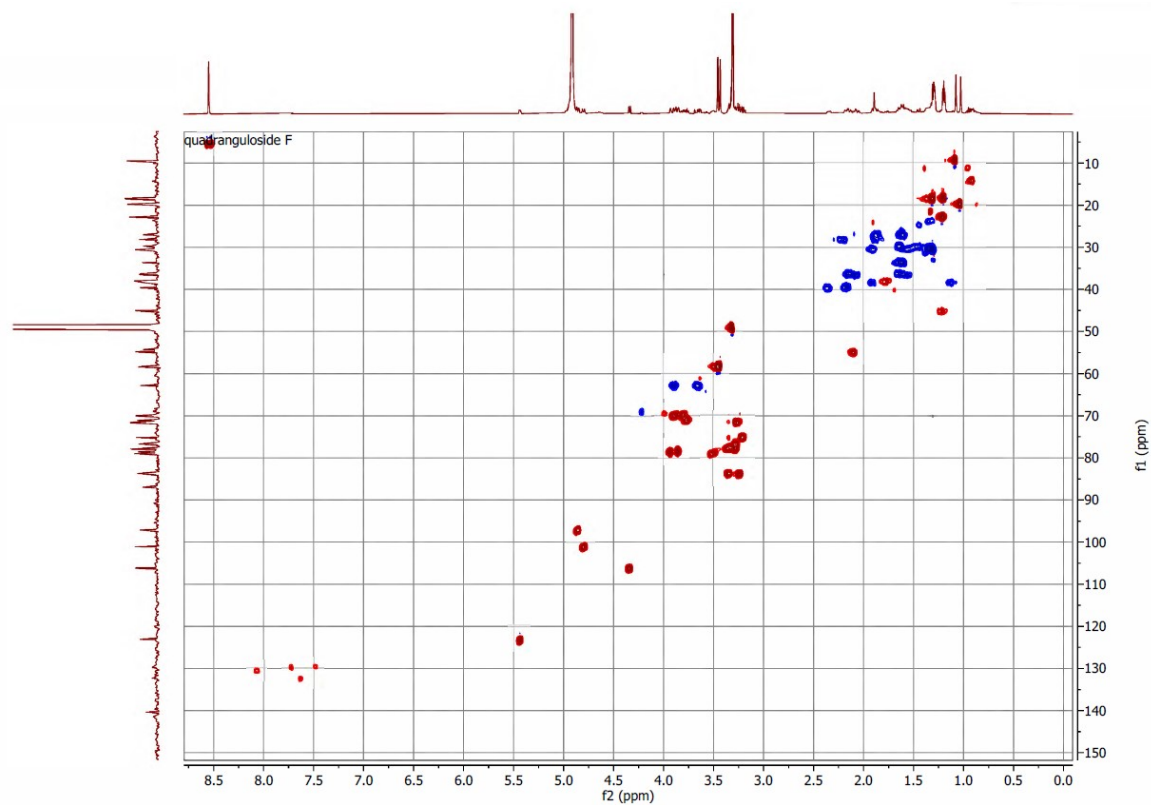
**<sup>13</sup>C-NMR of Compound 6**



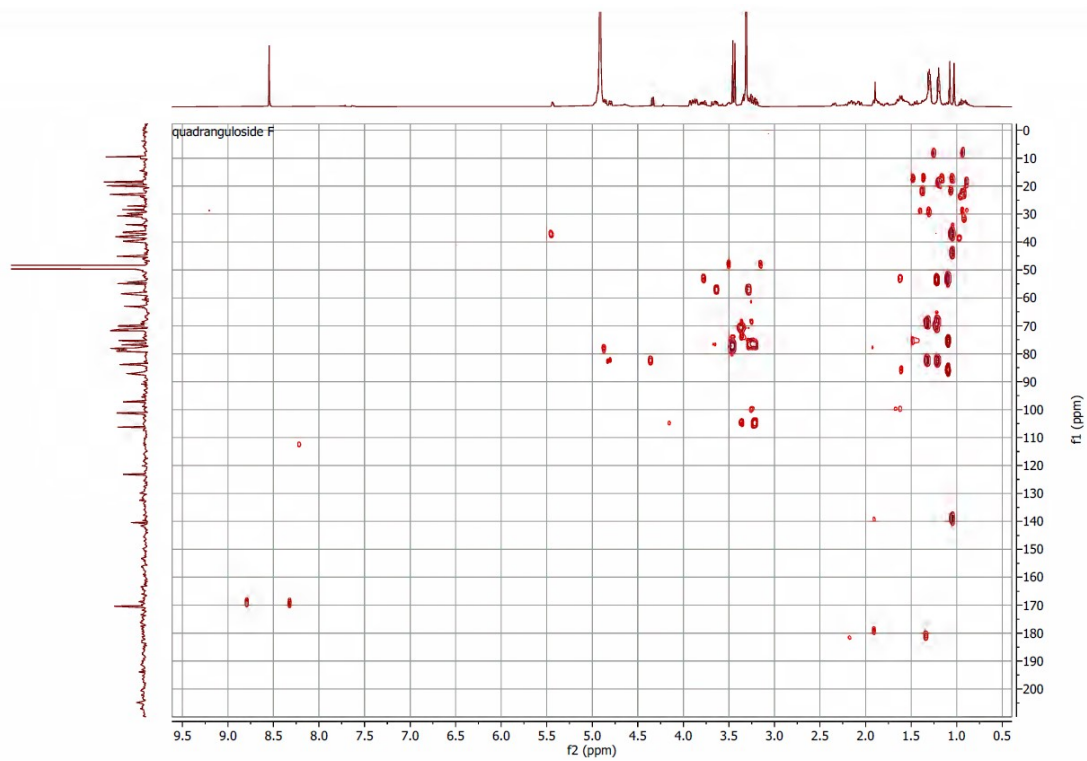
APT  $^{13}\text{C}$ -NMR of Compound 6



H, H COSY of Compound 6



HSQC of Compound 6



HMBC of Compound 6