

## **Synthesis of Organosilocane allied N- Heteroaryl Schiff base chemosensor for detection of Cu<sup>2+</sup> metal ion and their biological applications**

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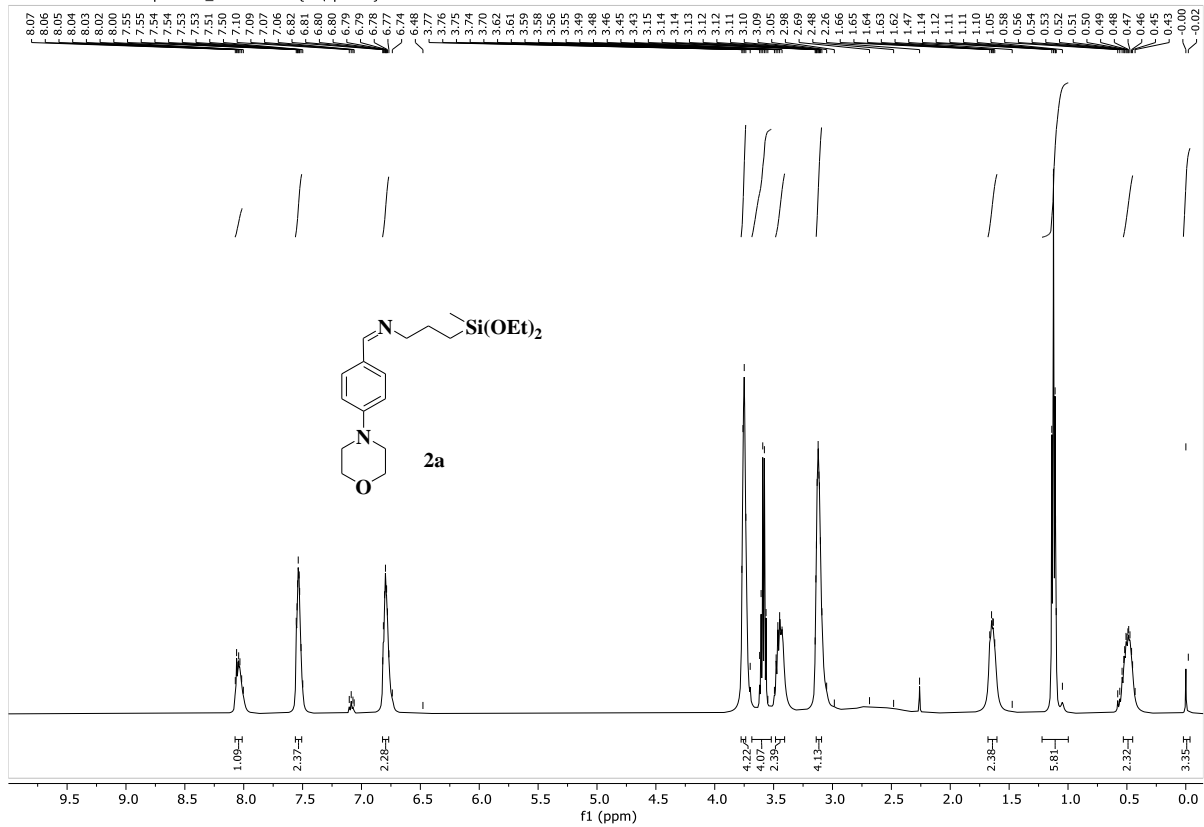
University of Murcia, 30100 Murcia, Spain.

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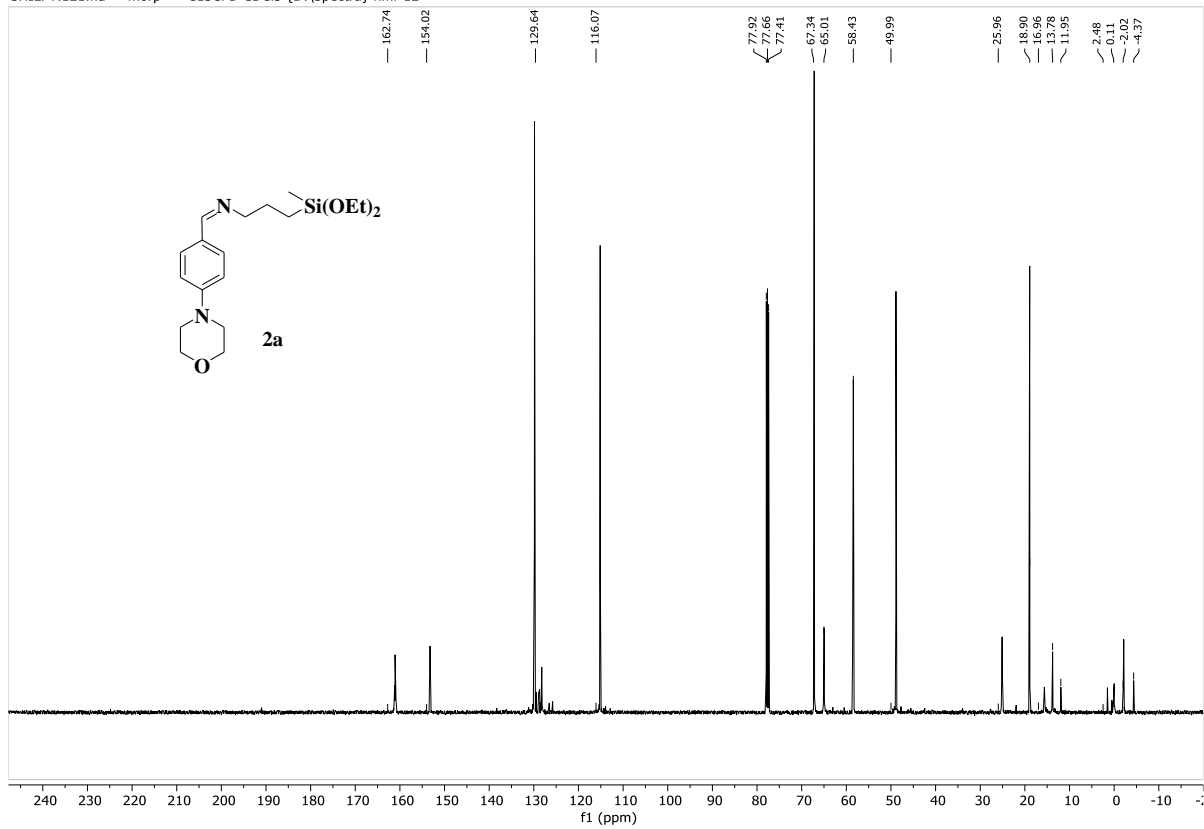
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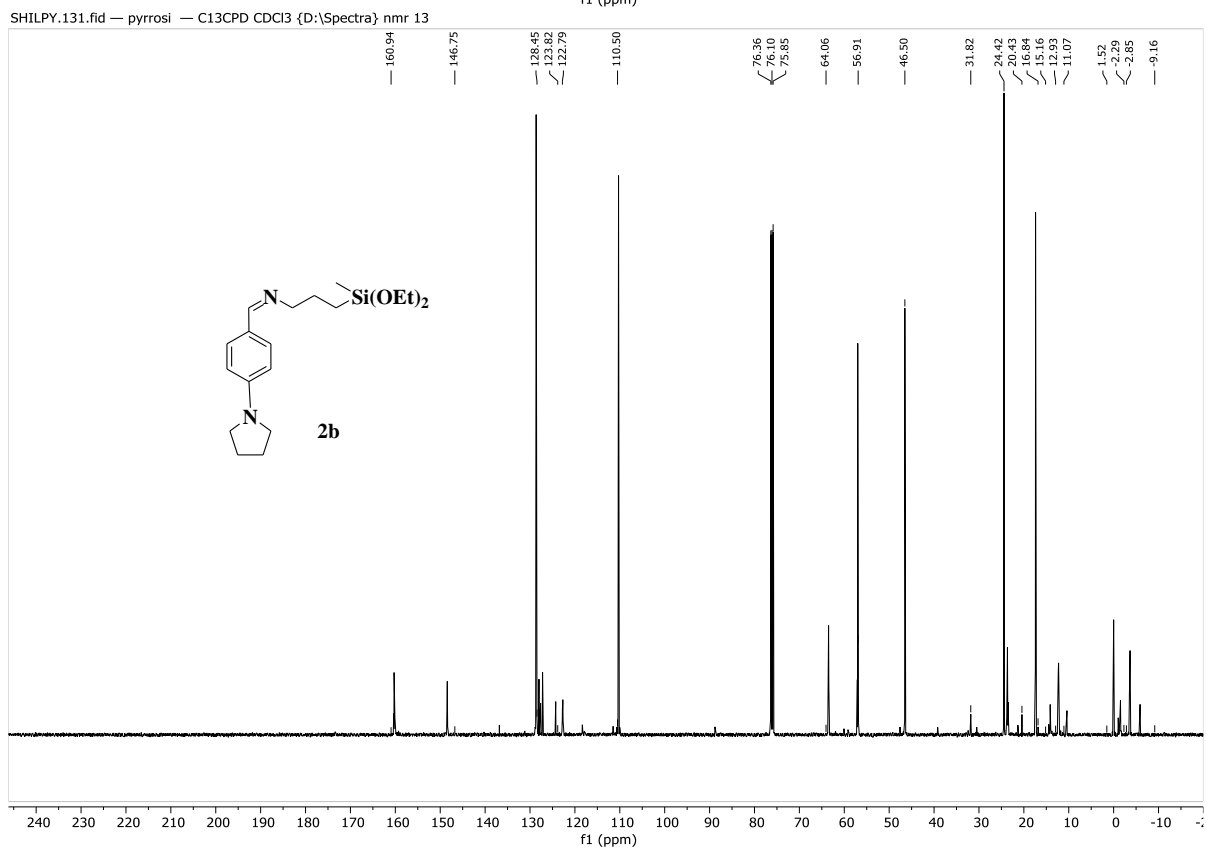
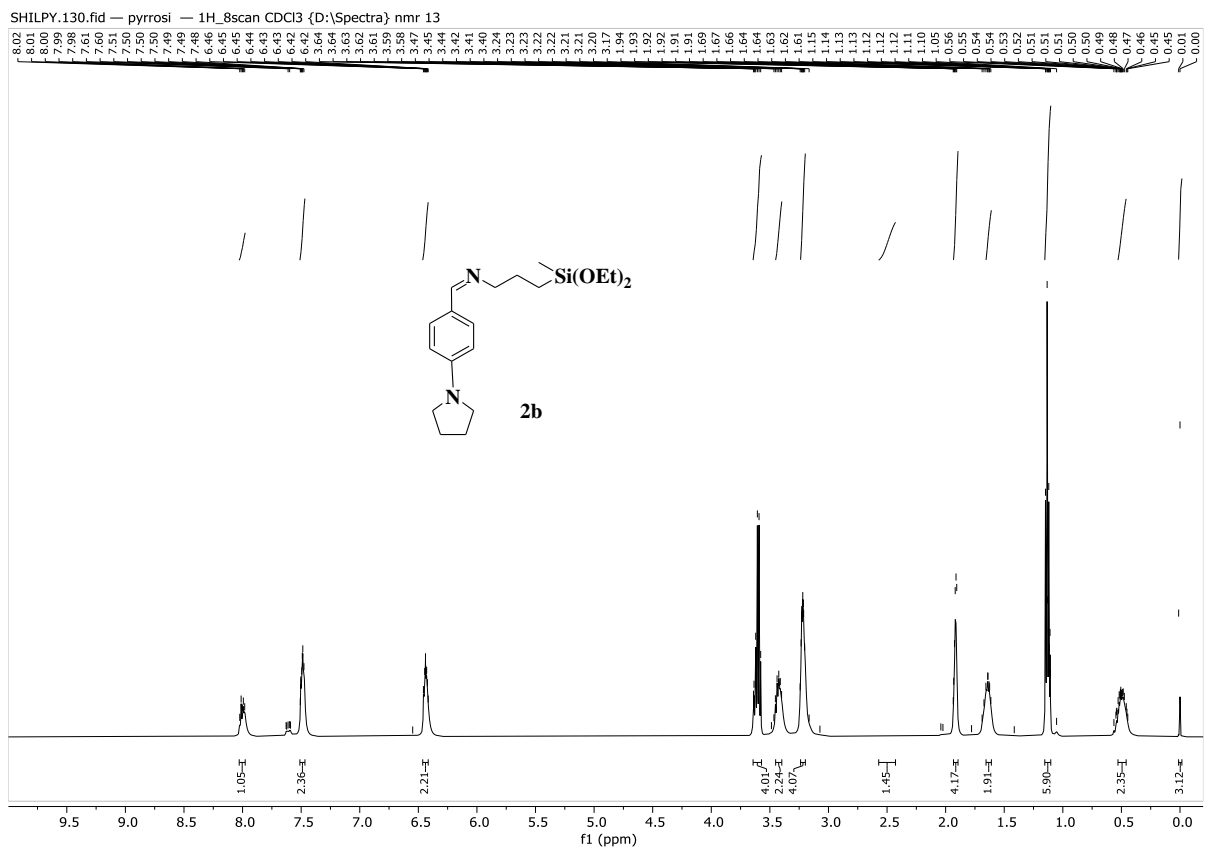
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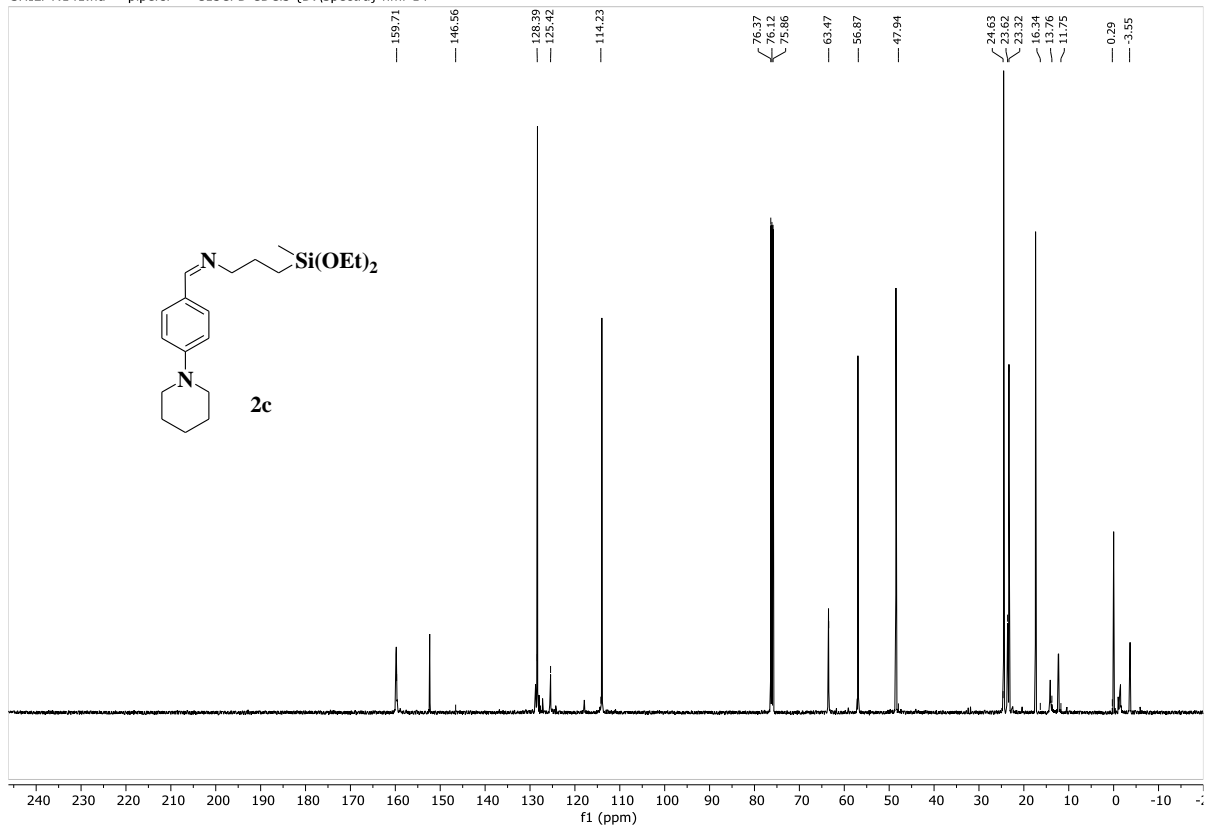
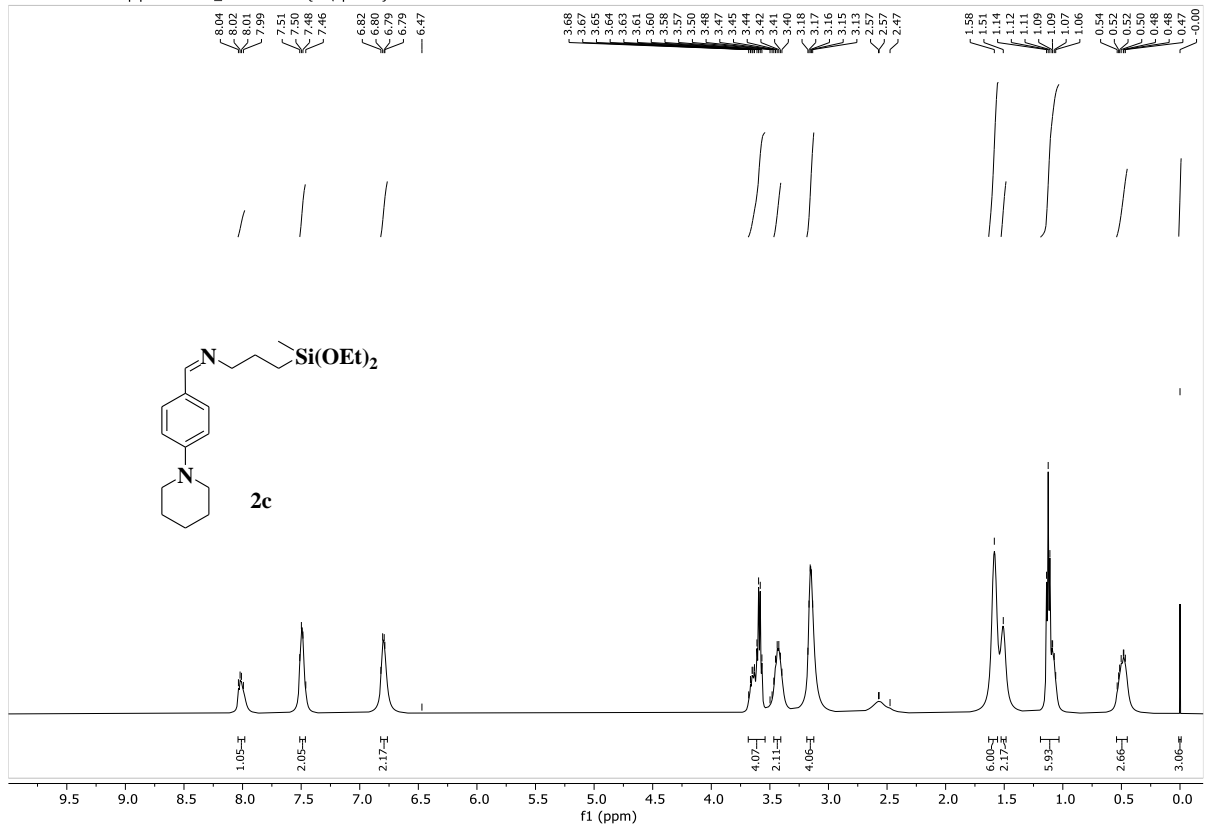
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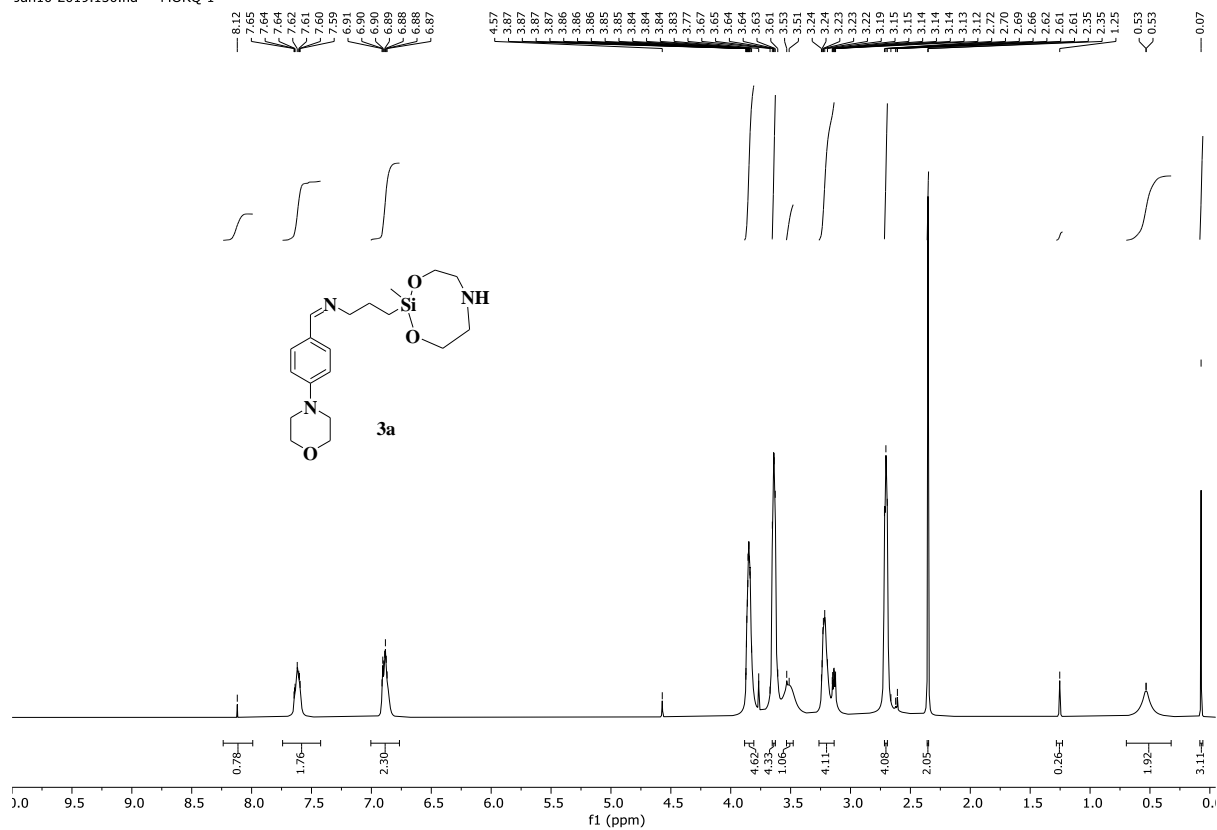


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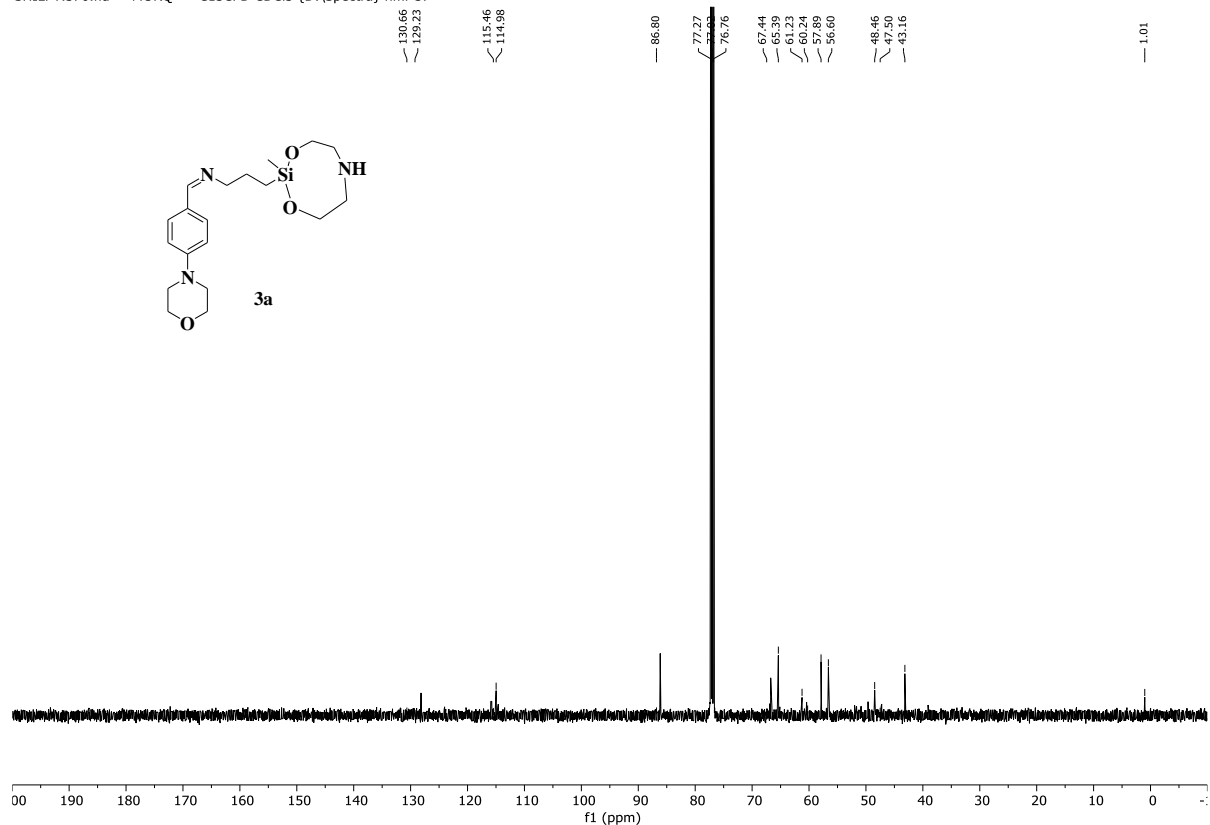




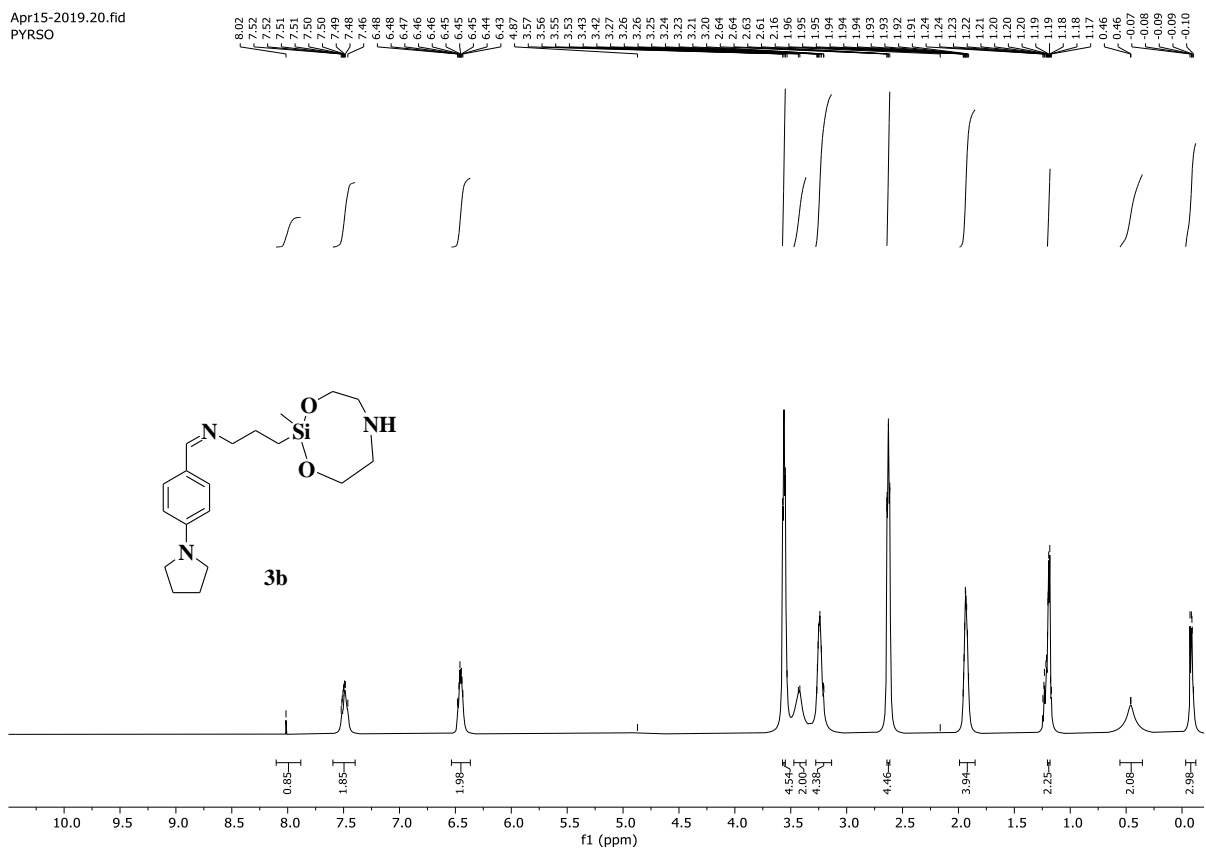




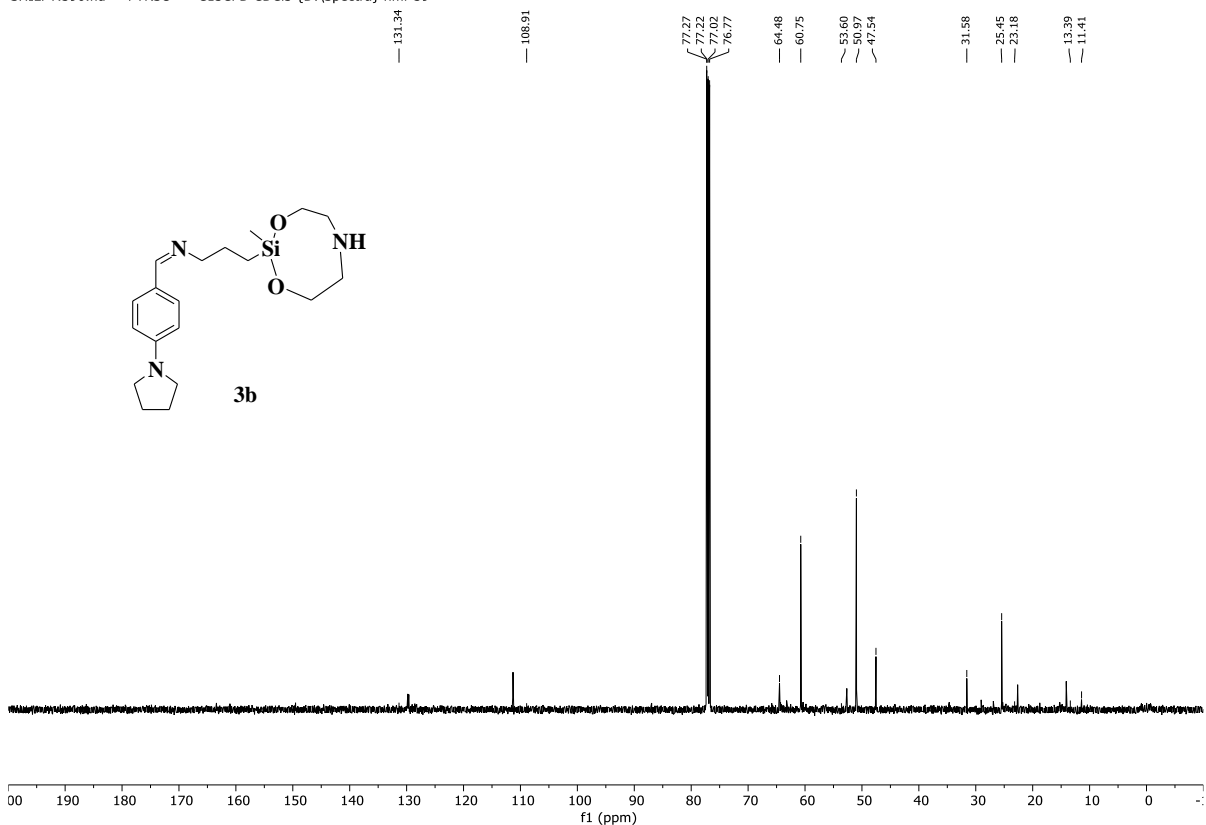
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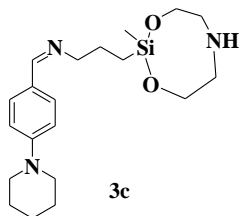
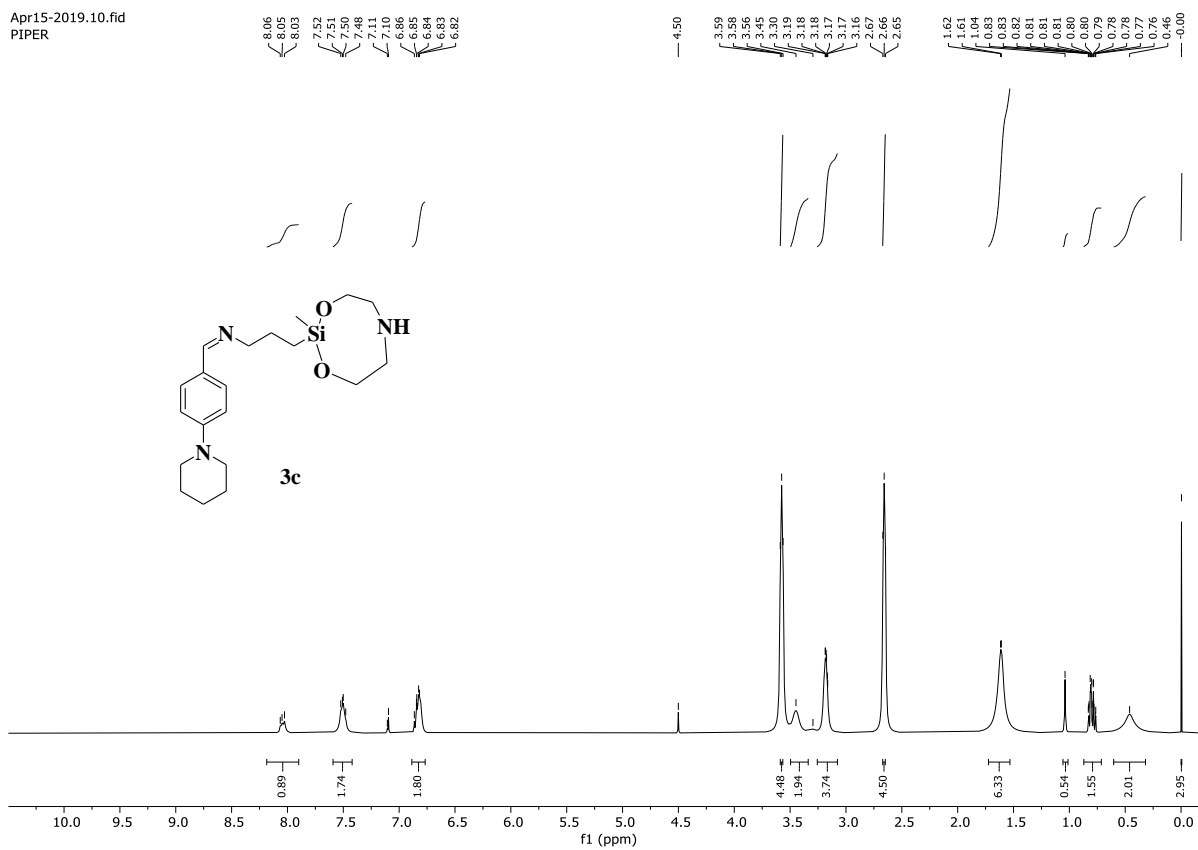
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PYRSO



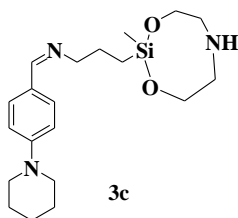
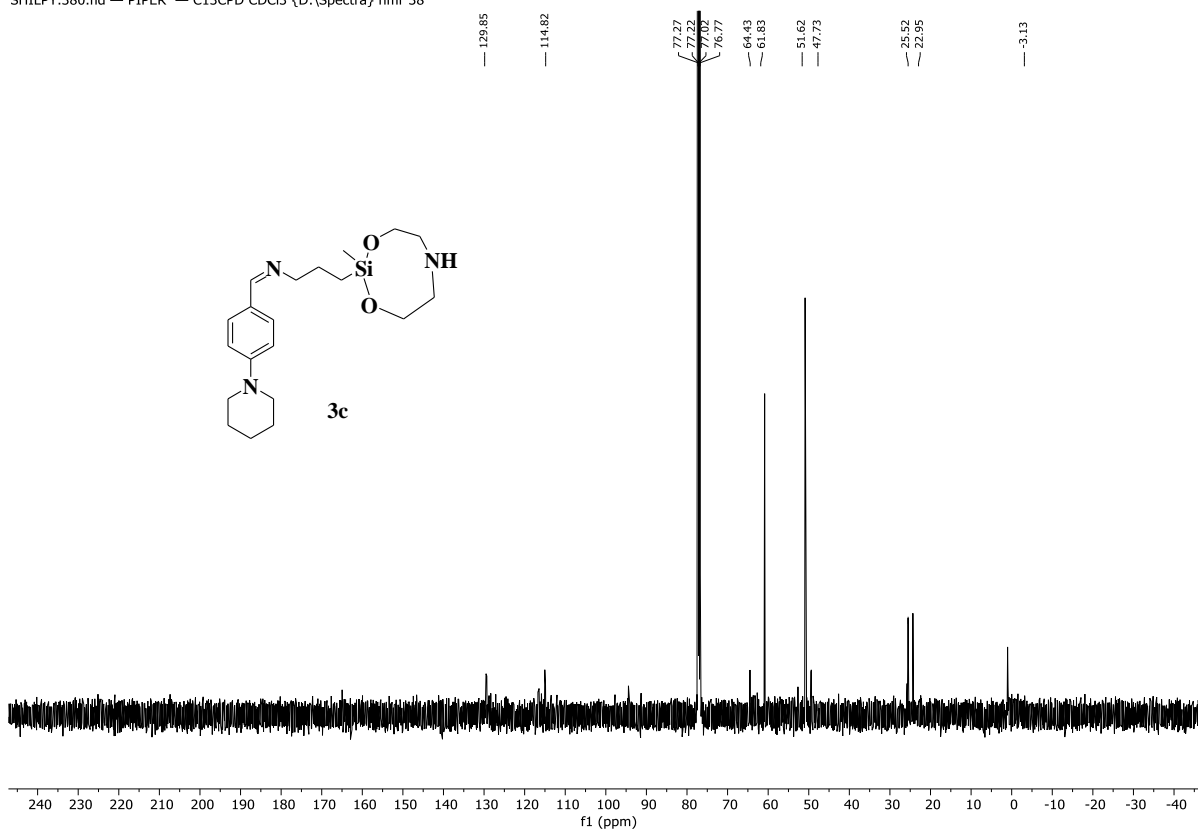
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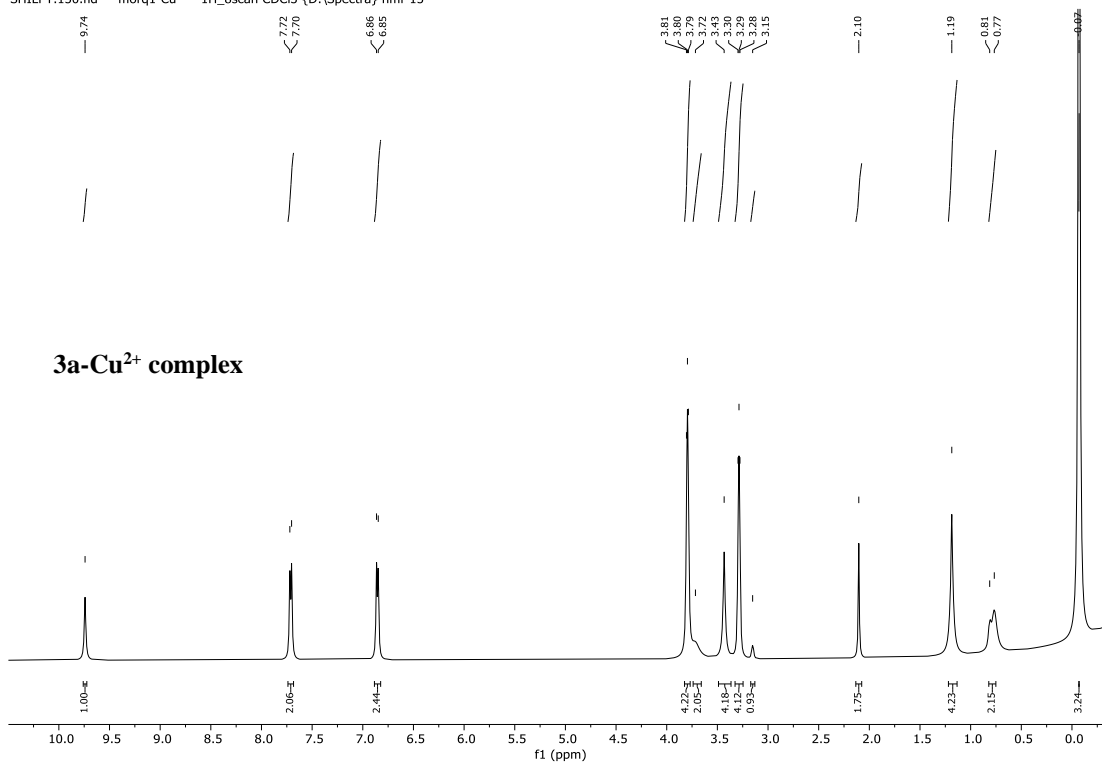


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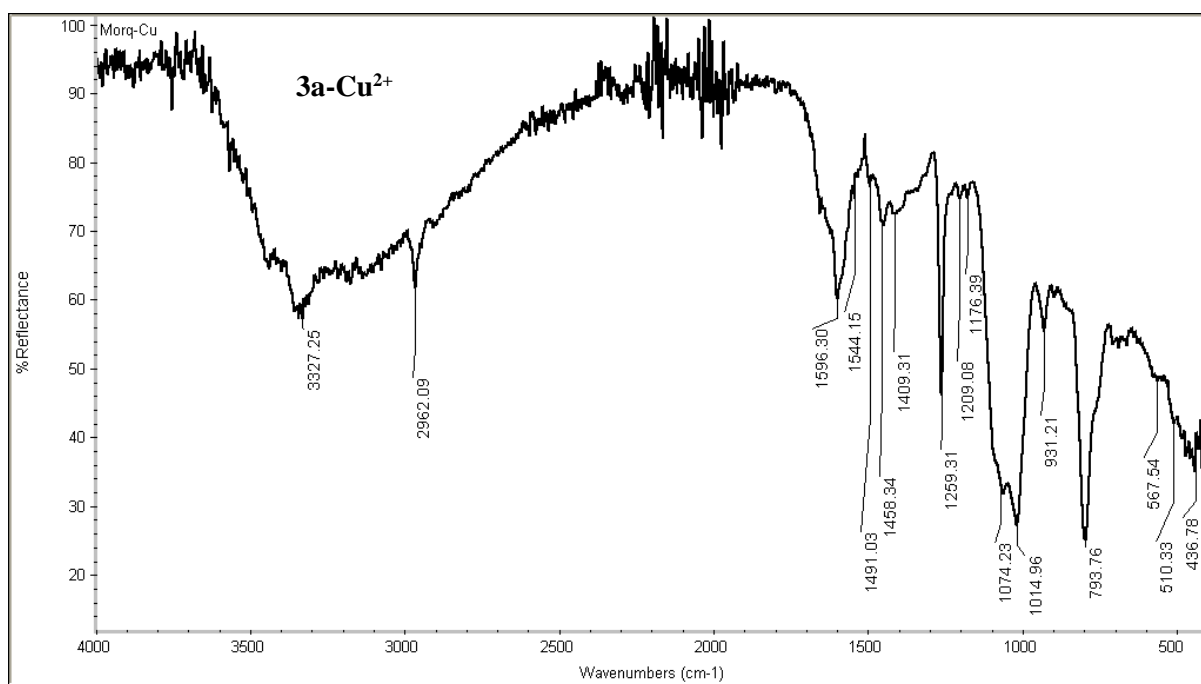


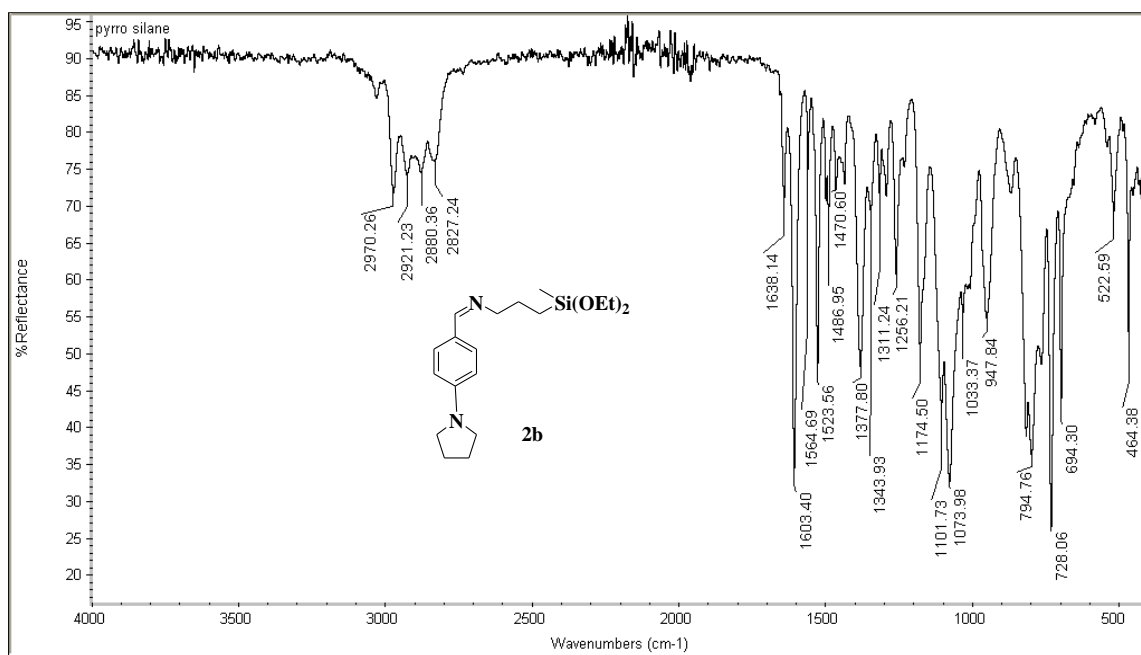
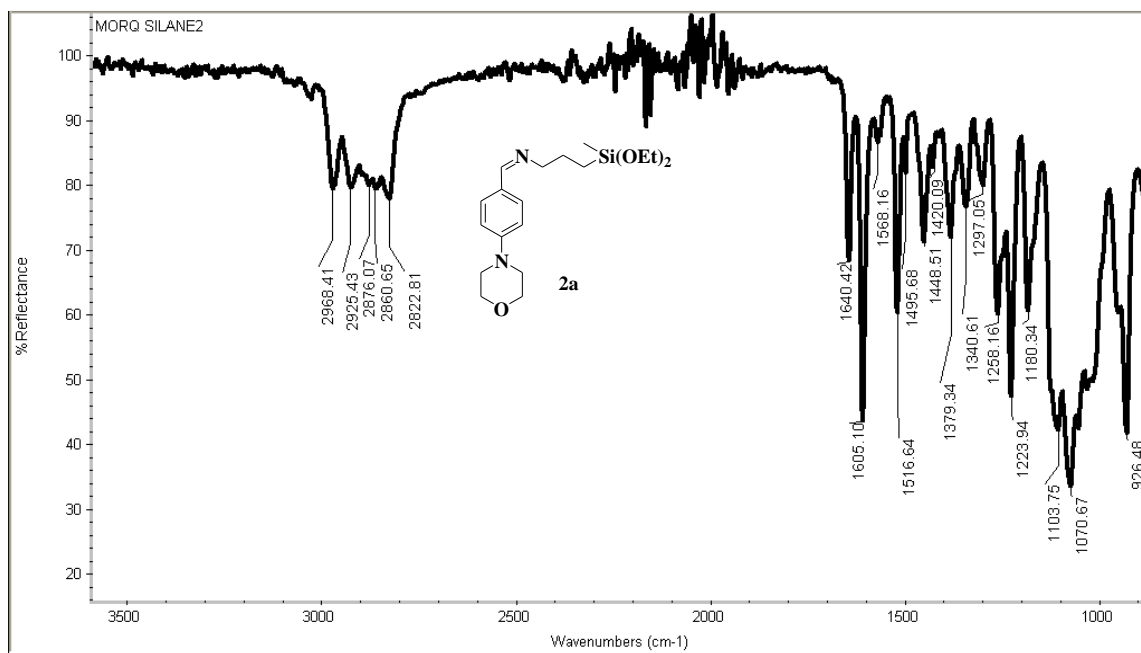


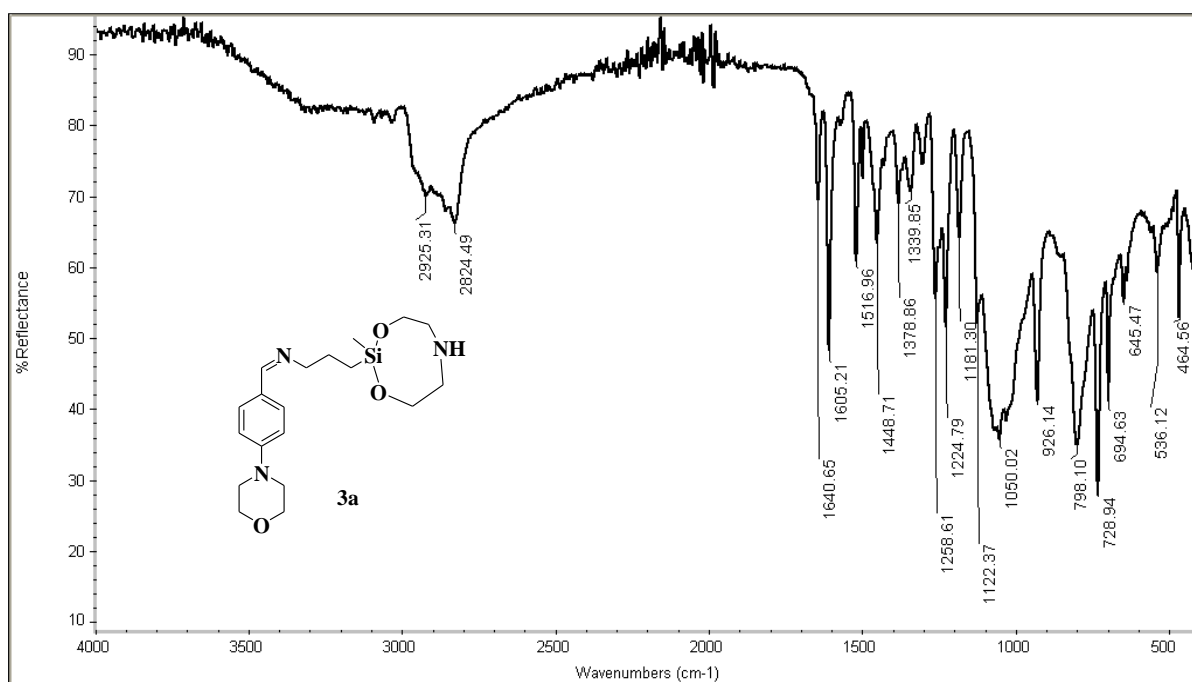
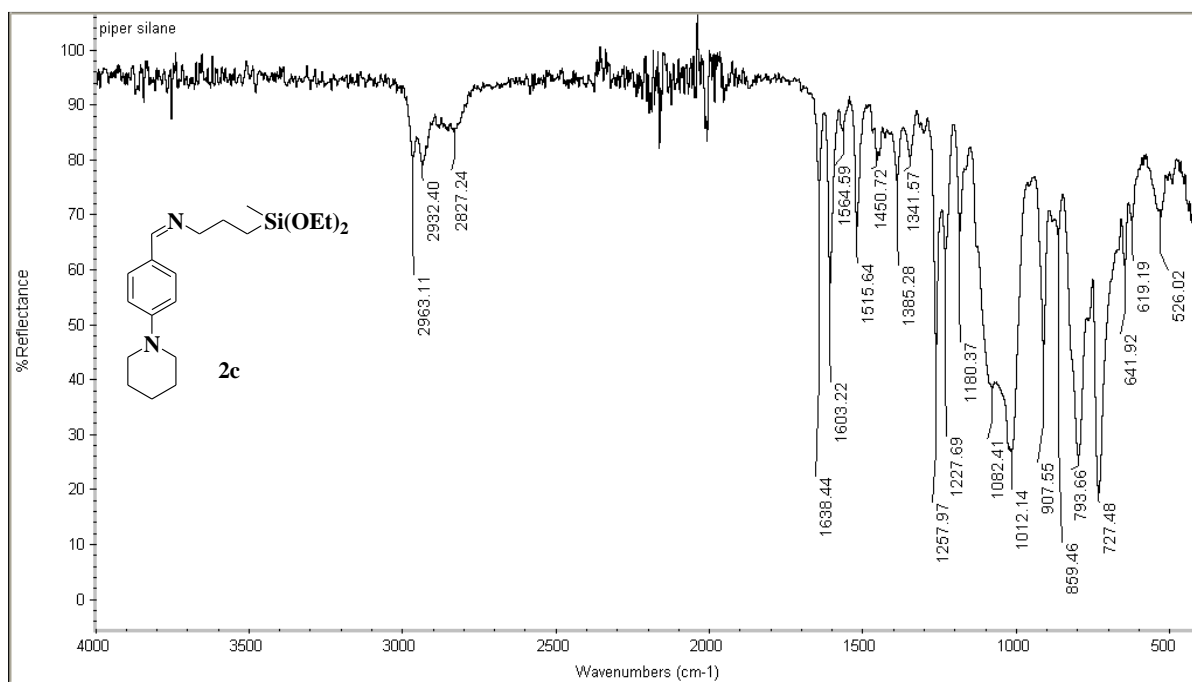
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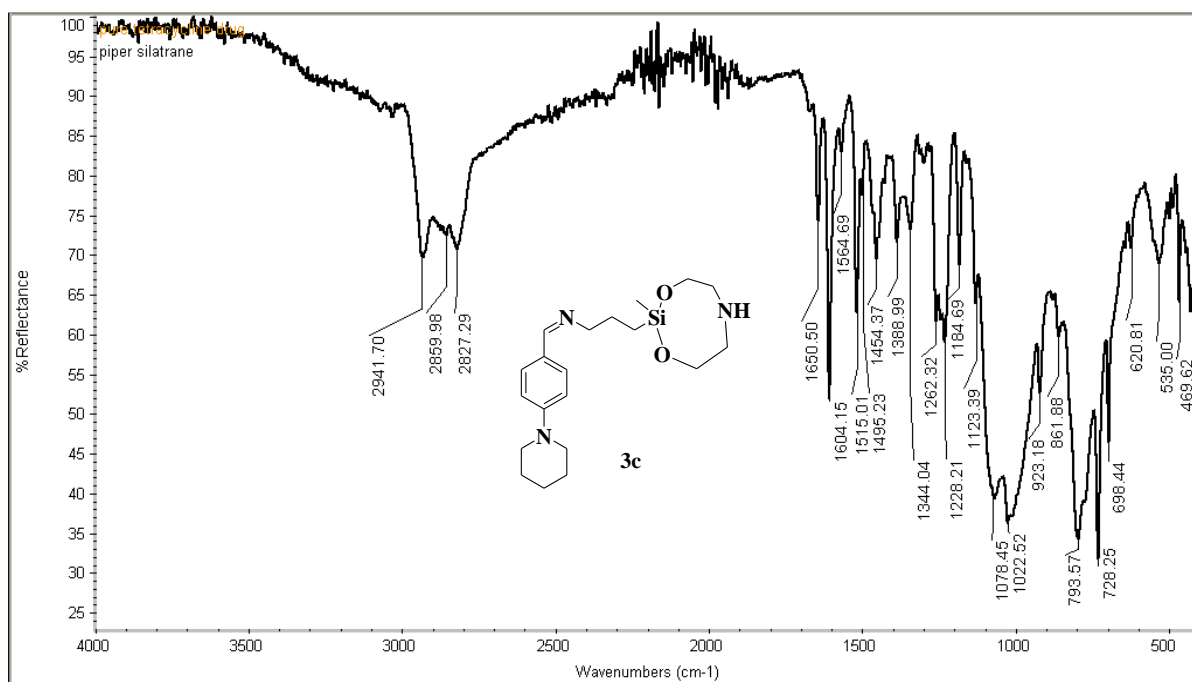
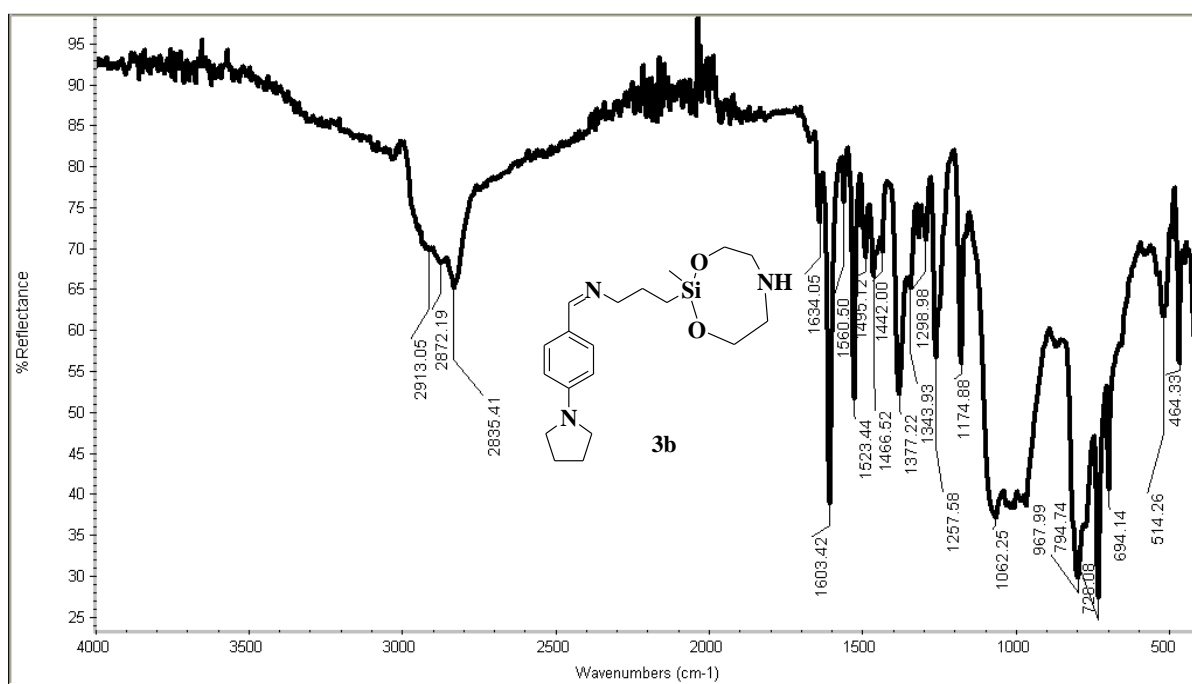


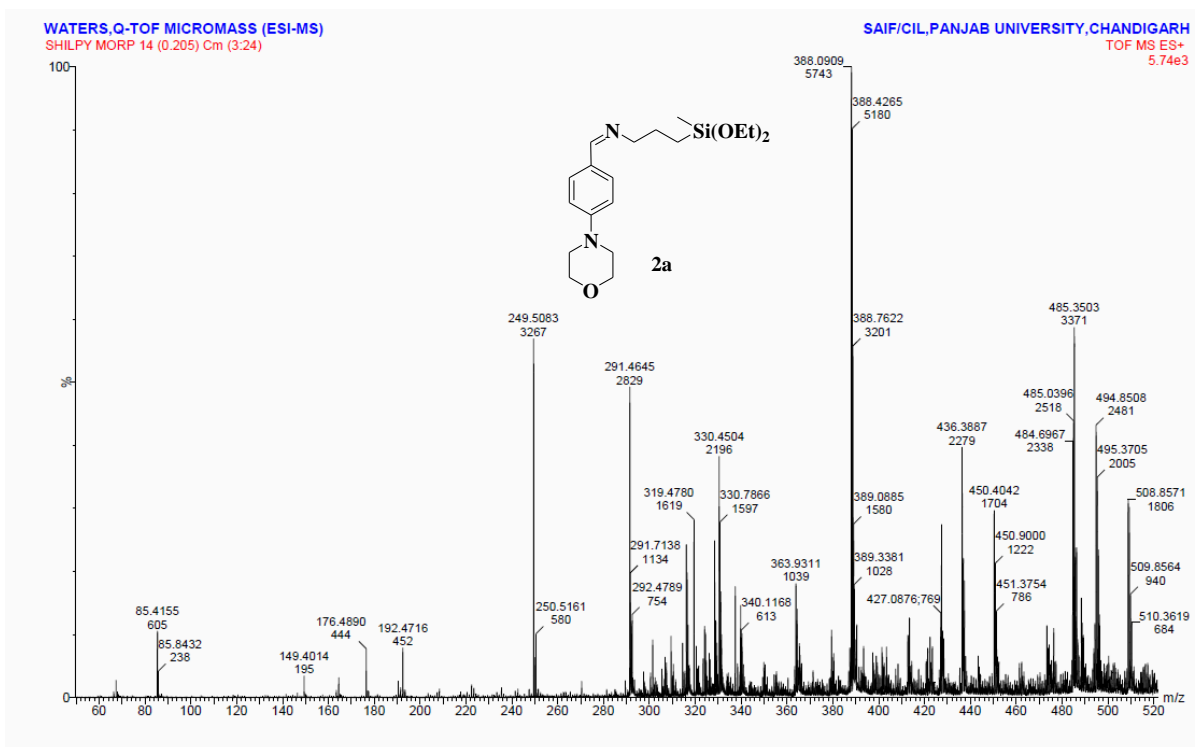
### 3a-Cu<sup>2+</sup> complex



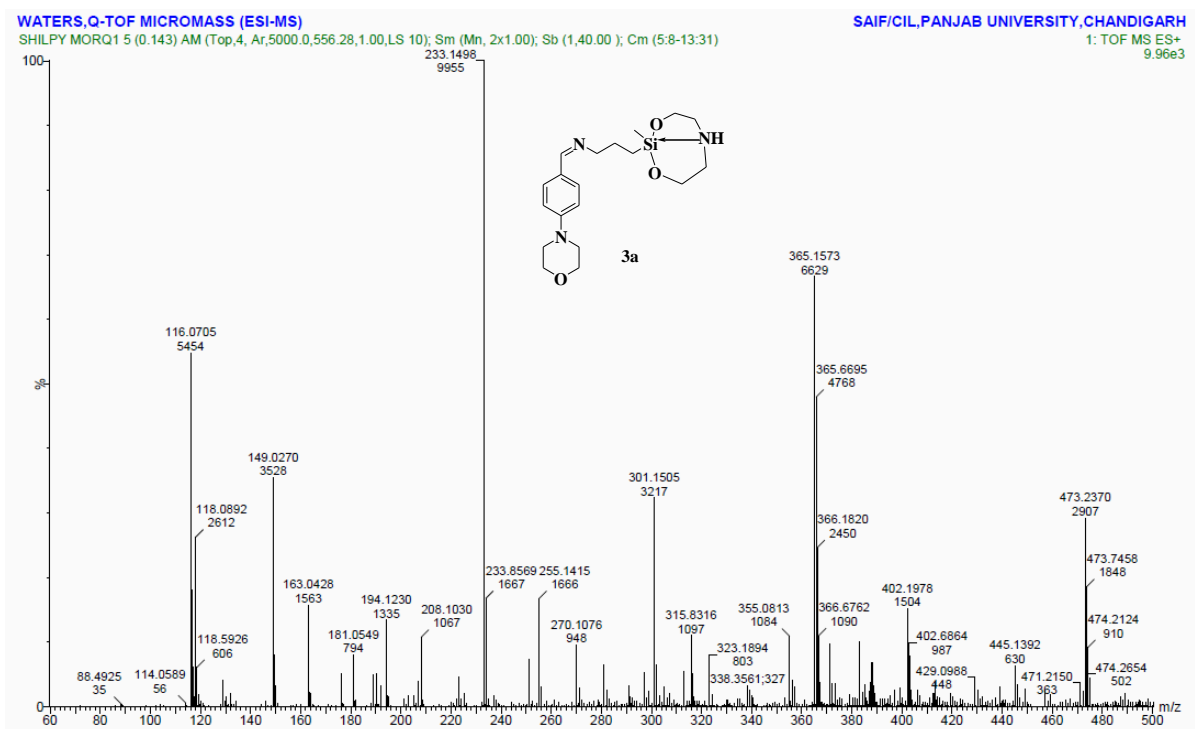




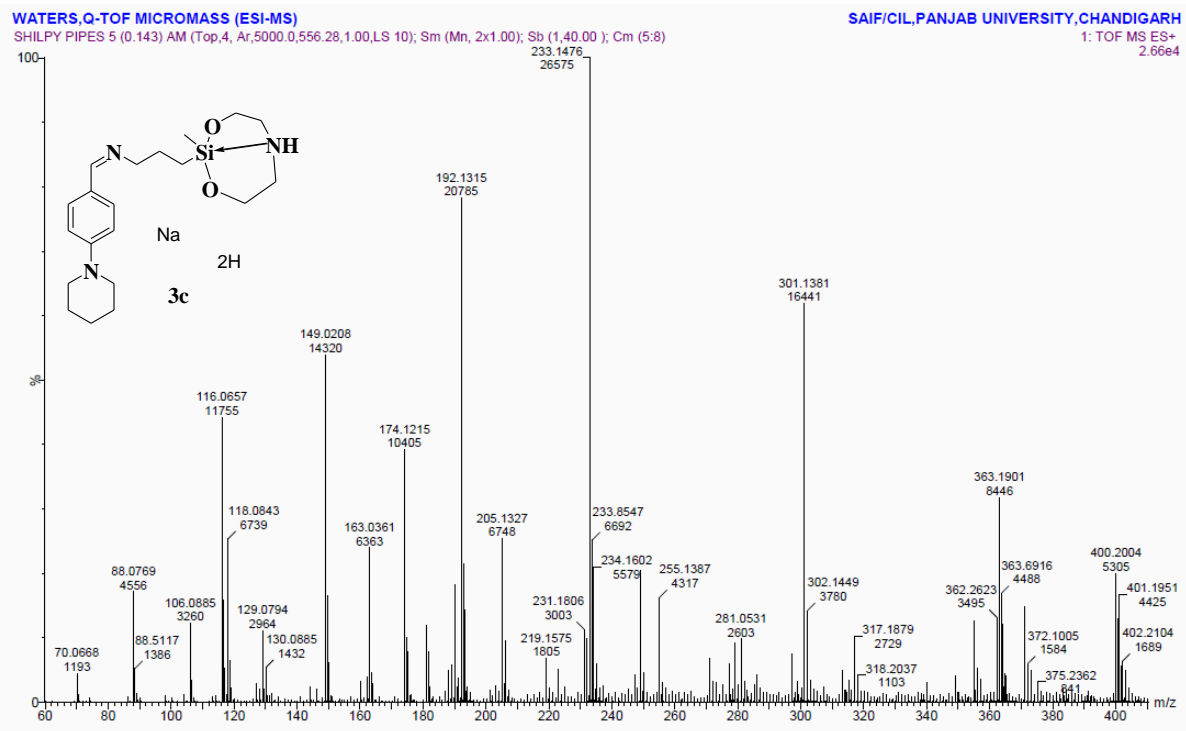
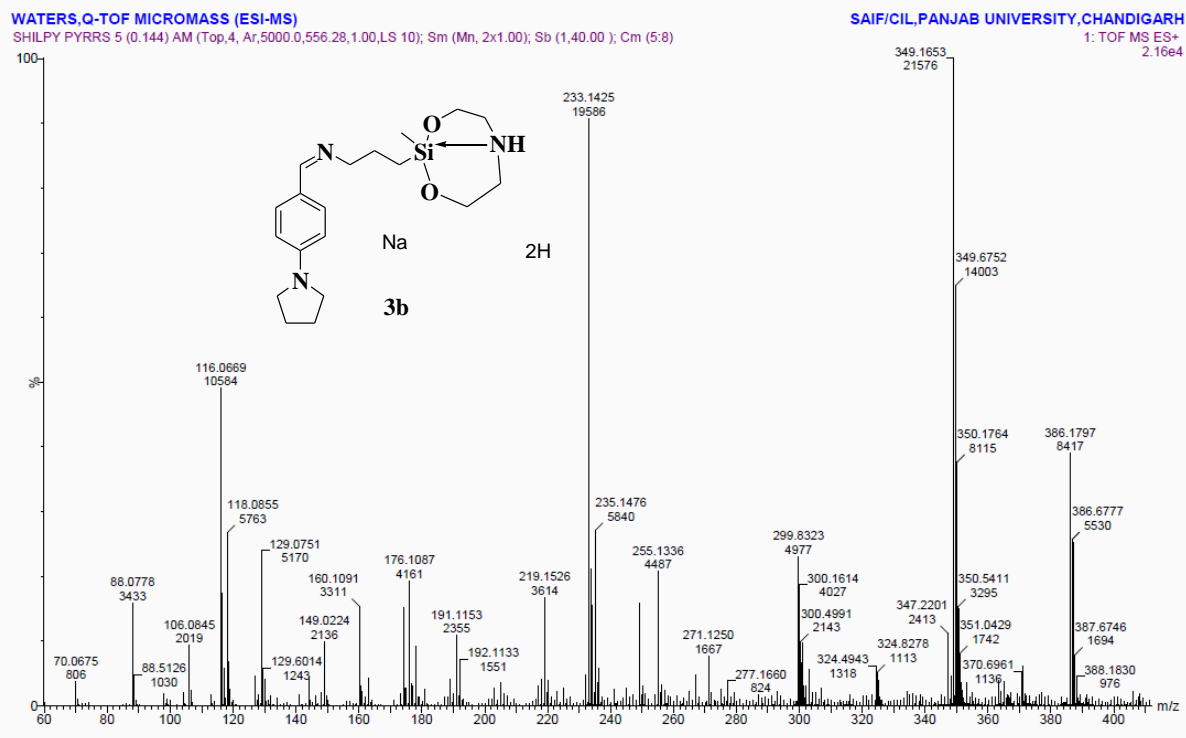


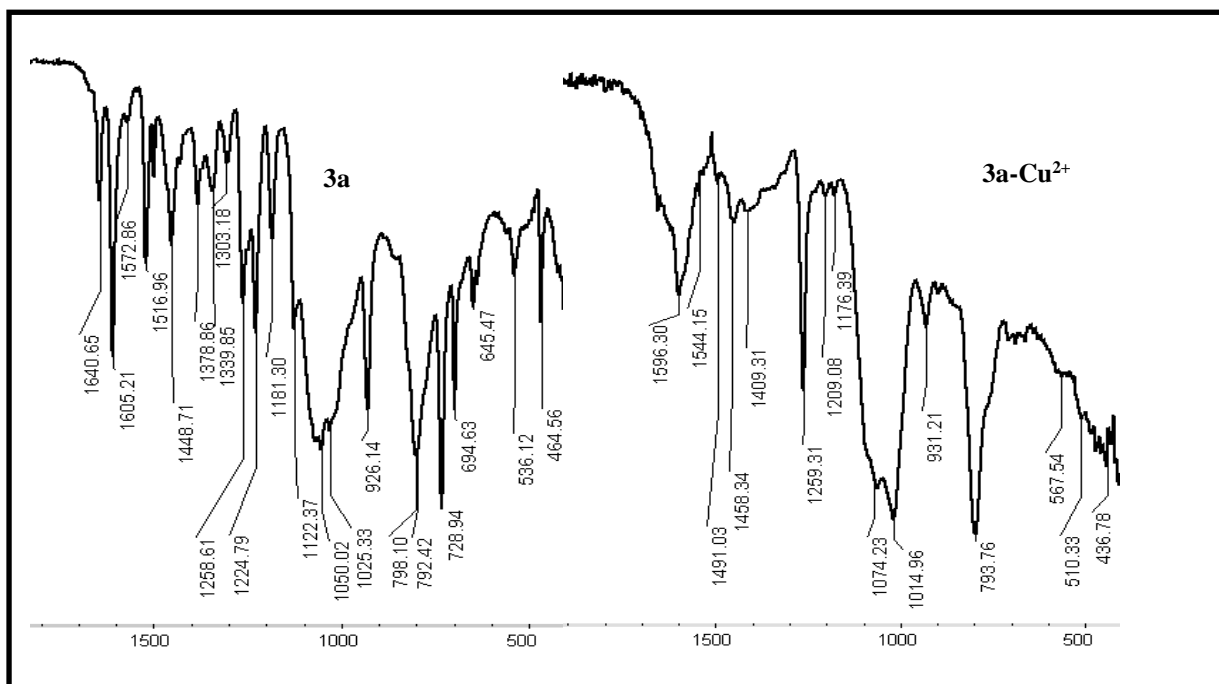


HRMS (ESI)  $[M+Na+H]^+$ :  $m/z = 388.0909$ ; Calculated:  $C_{19}H_{32}N_2O_3Si = 364.2182$

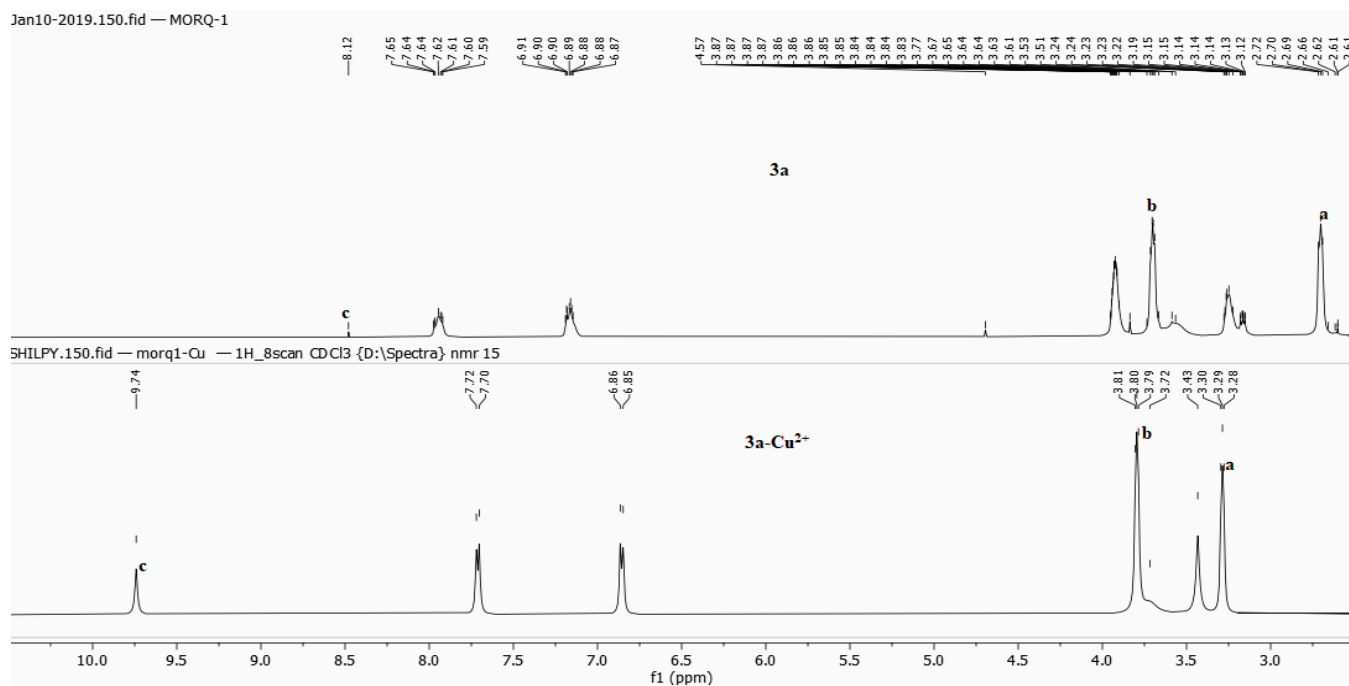


HRMS (ESI)  $[M+Na+2H]^+$ :  $m/z = 402.1978$ ; Calculated:  $C_{19}H_{32}N_2O_3Si = 377.2135$

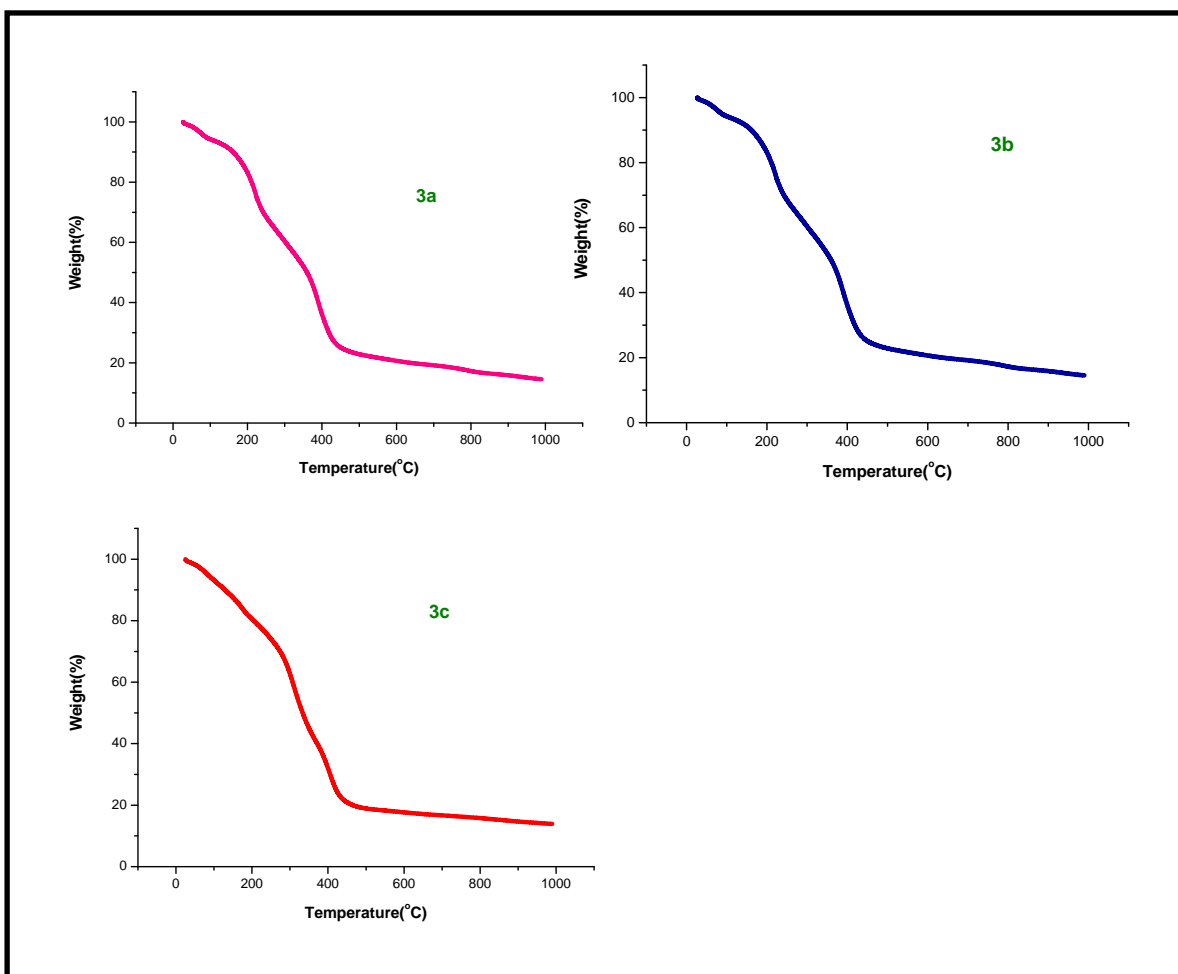




IR Spectral changes without and with addition of Cu<sup>2+</sup>



NMR Spectral changes without and with addition of Cu<sup>2+</sup>



Thermogravimetric analysis for 3a-3c