

### *Supporting Information*

## **Synthesis, “turn-on” fluorescent signals towards Zn<sup>2+</sup> and Hg<sup>2+</sup> and monoamine oxidase A inhibitory activity using molecular docking approach of morpholine analogue Schiff base linked organosilanes.**

Gurjaspreet Singh<sup>a\*</sup>, Anita Devi<sup>a\*</sup>, Mohit<sup>a</sup>, Diksha<sup>a</sup>, Suman<sup>a</sup>, Anamika Saini<sup>a</sup>, Jashan Deep Kaur<sup>a</sup>, Sofia Gupta<sup>a</sup>, Vikas<sup>a</sup>

<sup>a</sup>Department of Chemistry, Panjab University, Chandigarh, 160014, India

\*Corresponding Authors

Prof. Gurjaspreet Singh

Department of Chemistry & Centre of Advanced Studies

Panjab University, Chandigarh, India

Email: [gjpsingh@pu.ac.in](mailto:gjpsingh@pu.ac.in)

Tel. No: 0172-2534428, 09814302099, 9317502099

Fax No: 0172-2545074

Miss Anita Devi

Research Scholar

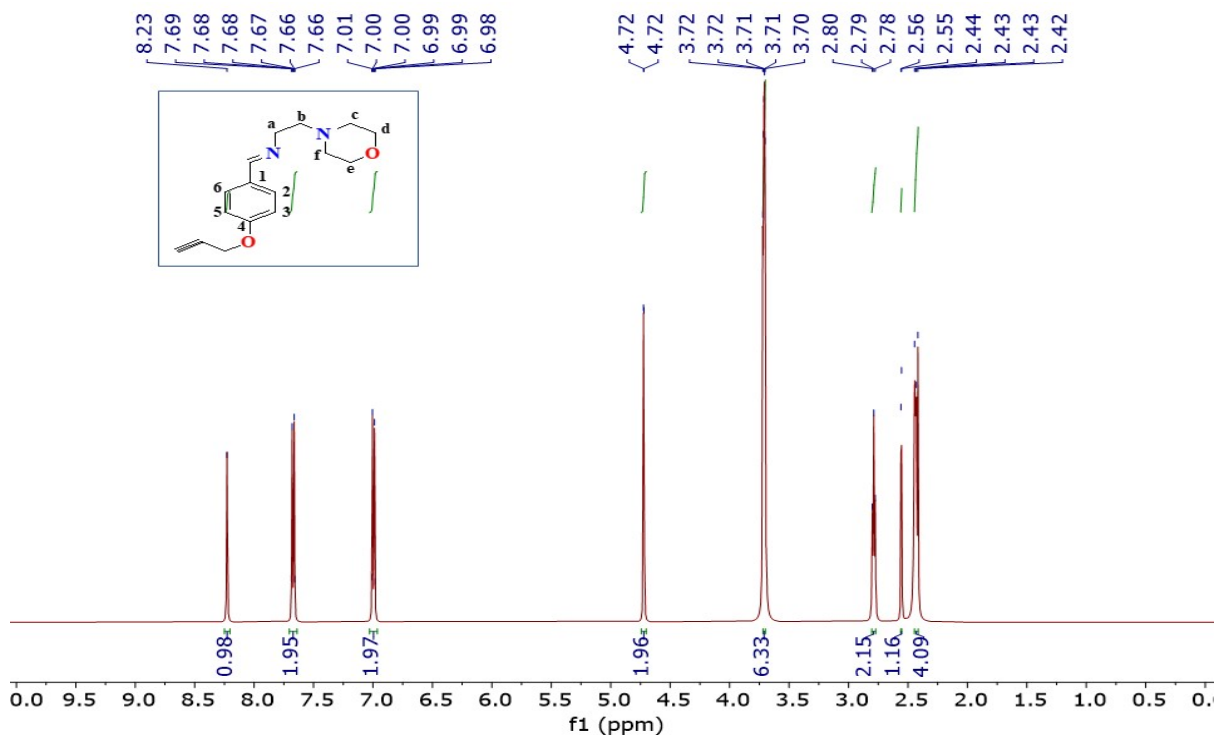
Department of Chemistry & Centre of Advanced Studies

Panjab University, Chandigarh, India

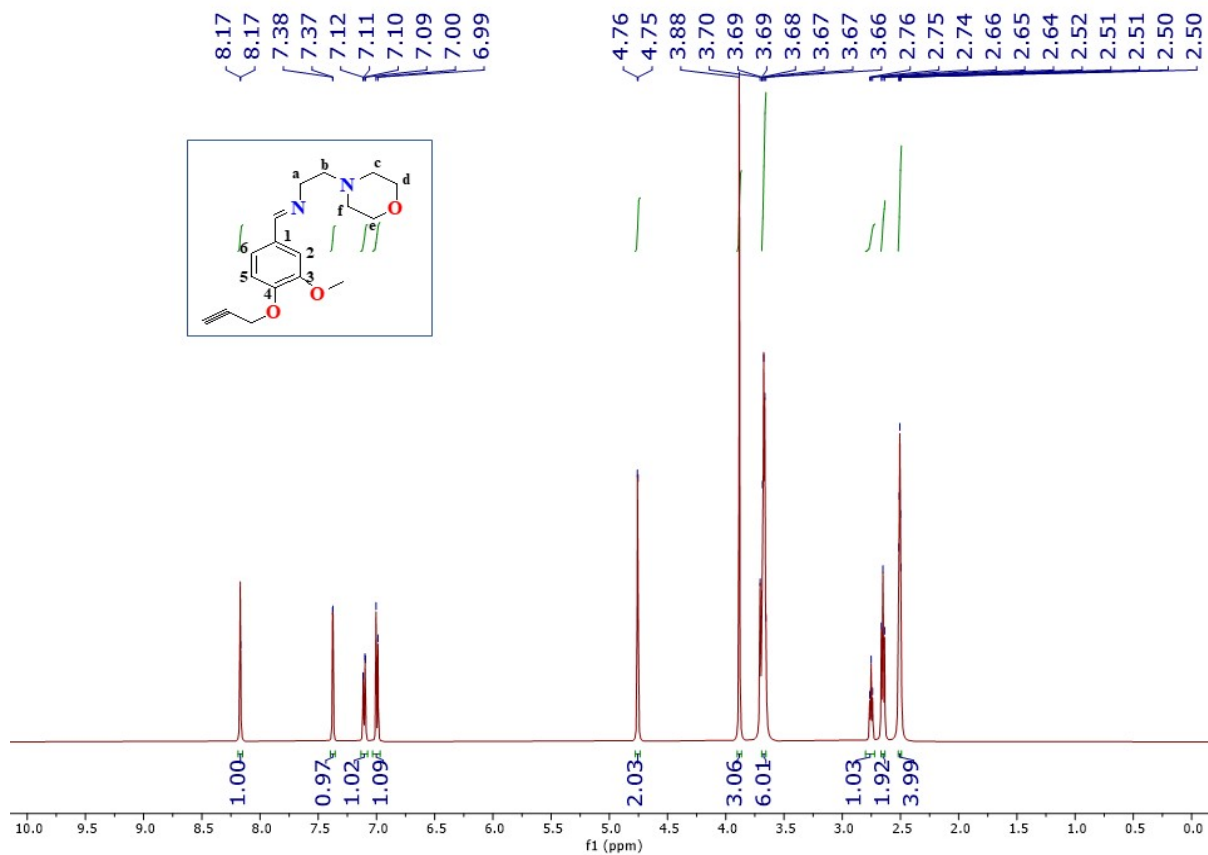
Email: [anitadevi0025@gmail.com](mailto:anitadevi0025@gmail.com)

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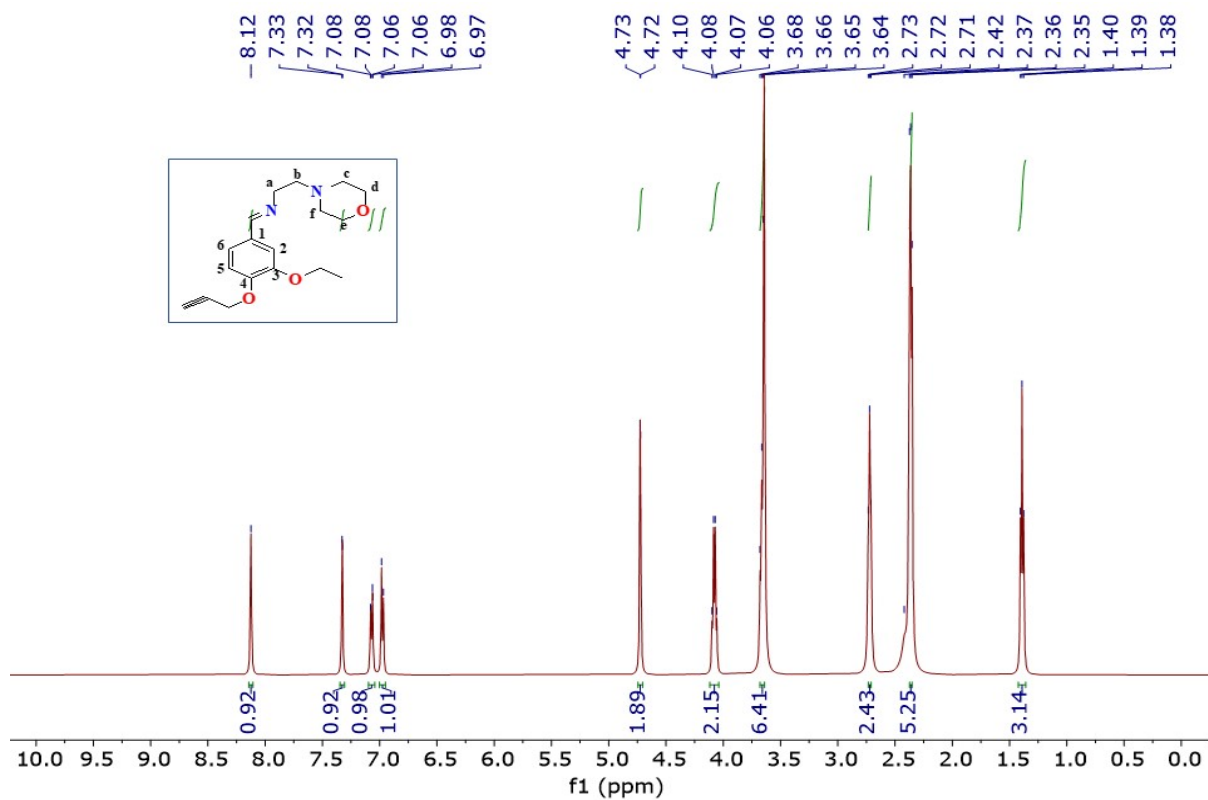
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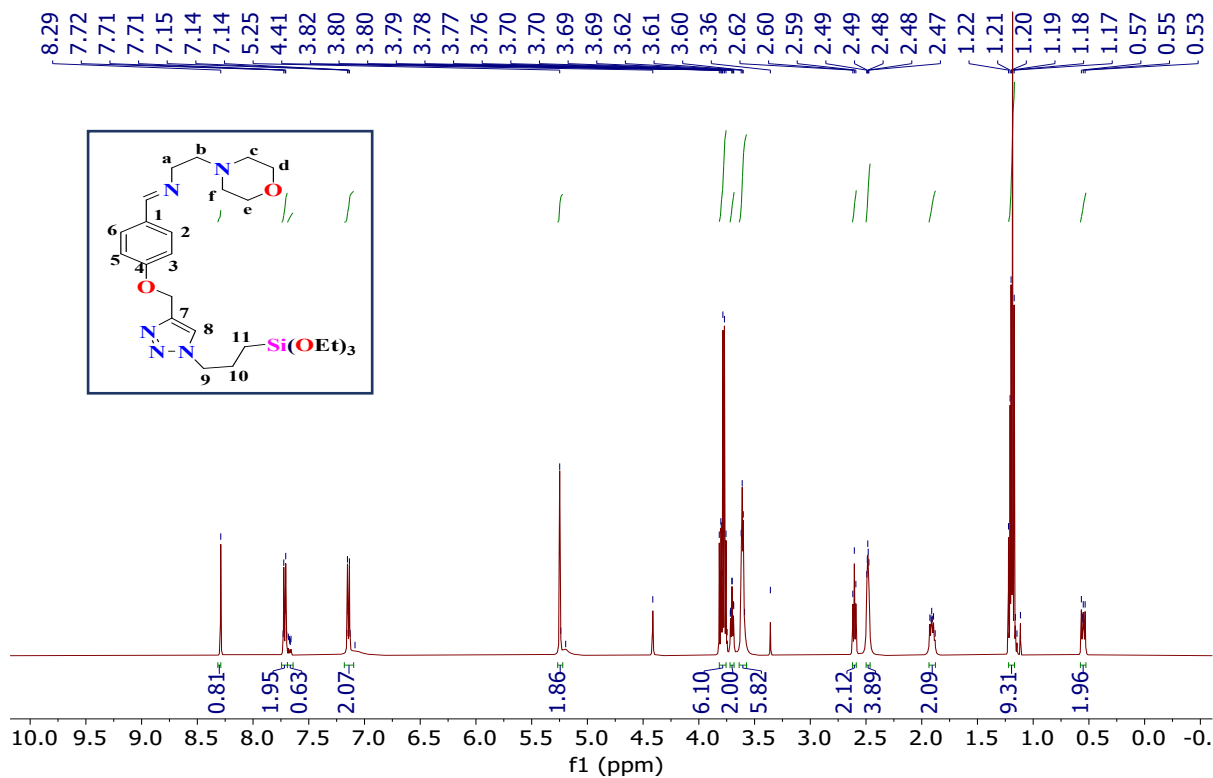
(Fig.S1)  $^1\text{H}$  NMR spectrum of compound 4a



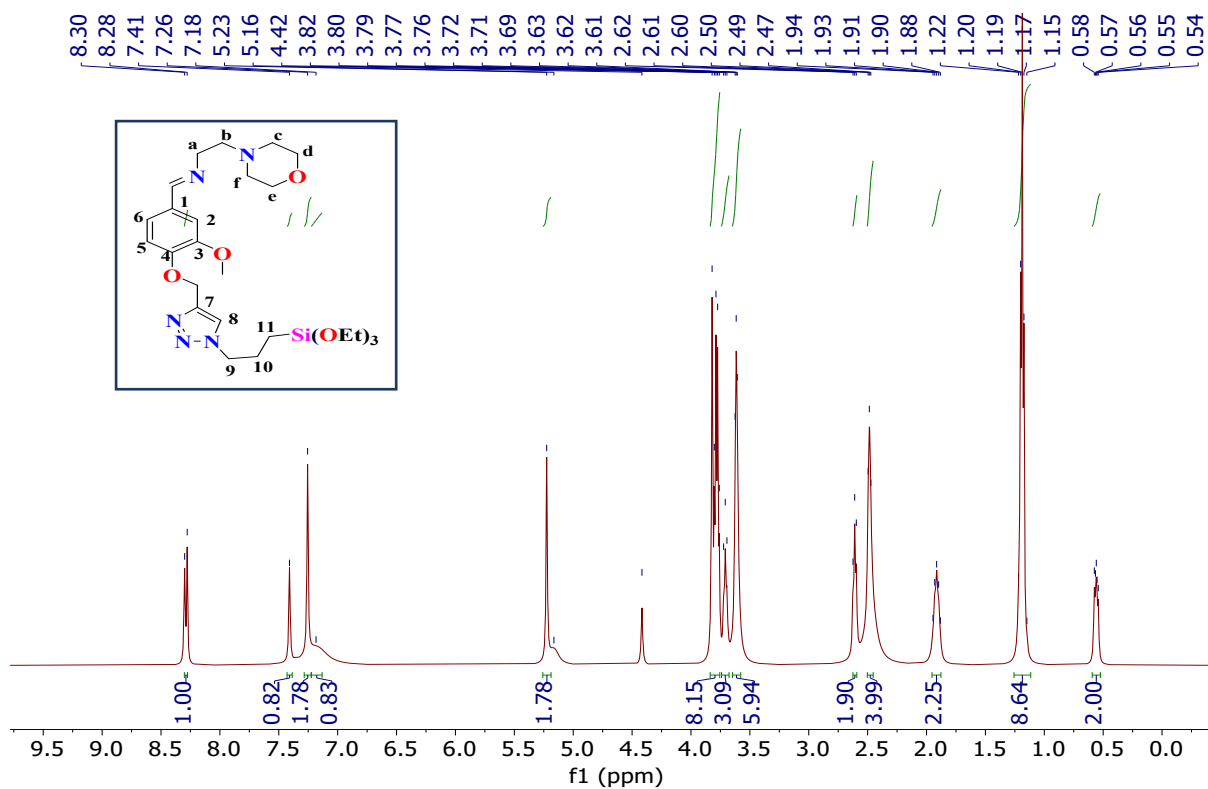
(Fig.S2)  $^1\text{H}$  NMR spectrum of compound 4b



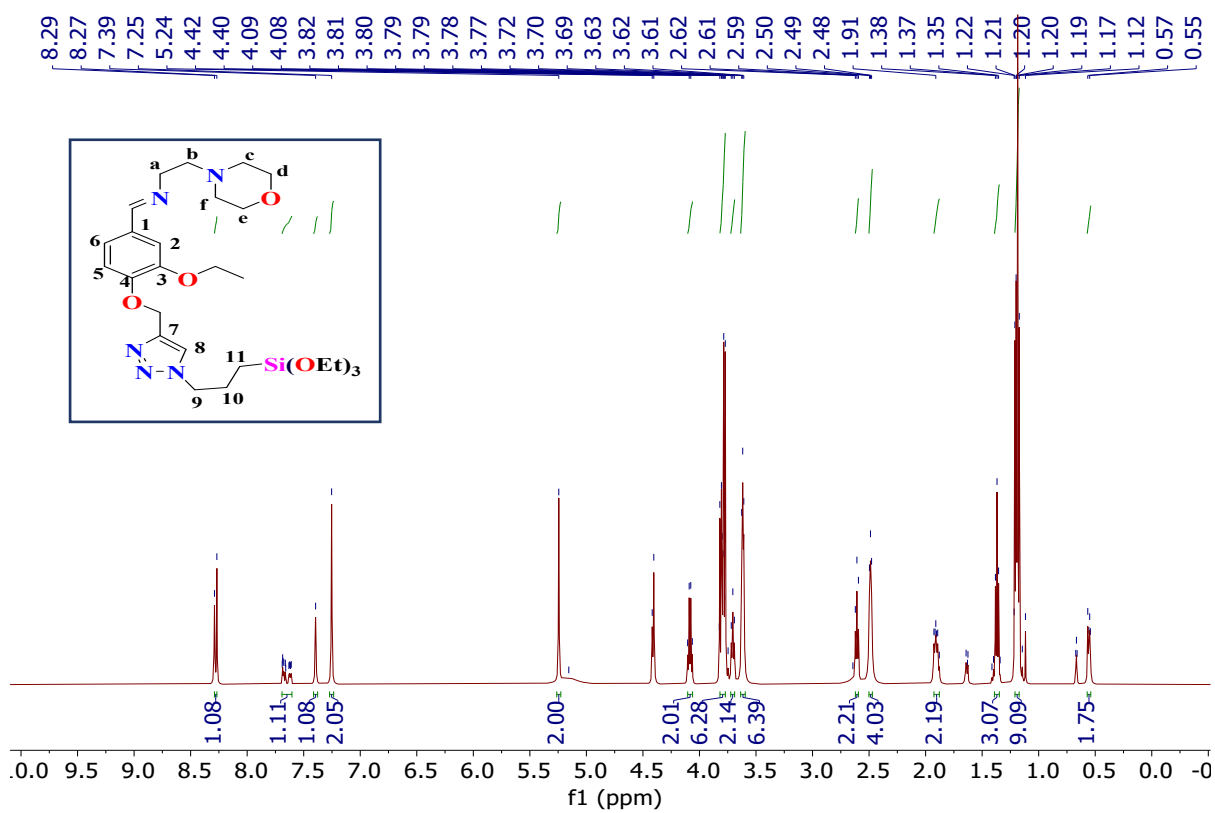
(Fig.S3)  $^1\text{H}$  NMR spectrum of compound 4c



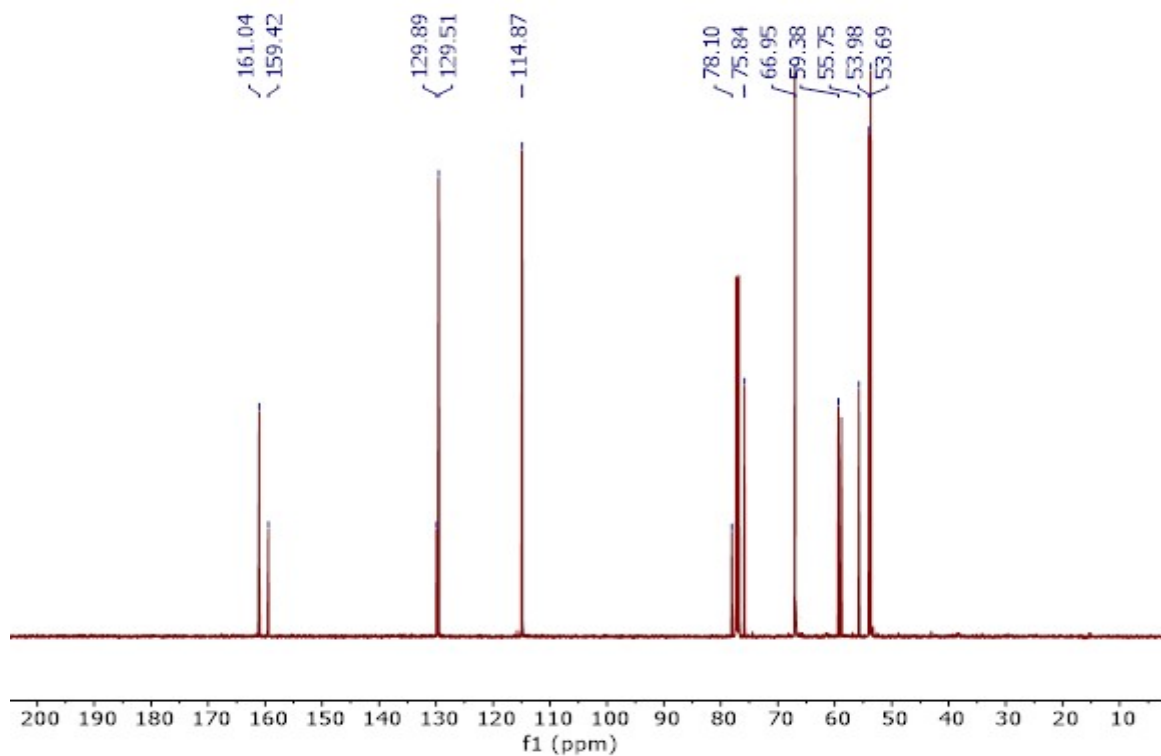
(Fig.S4)  $^1\text{H}$  NMR spectrum of compound 5a



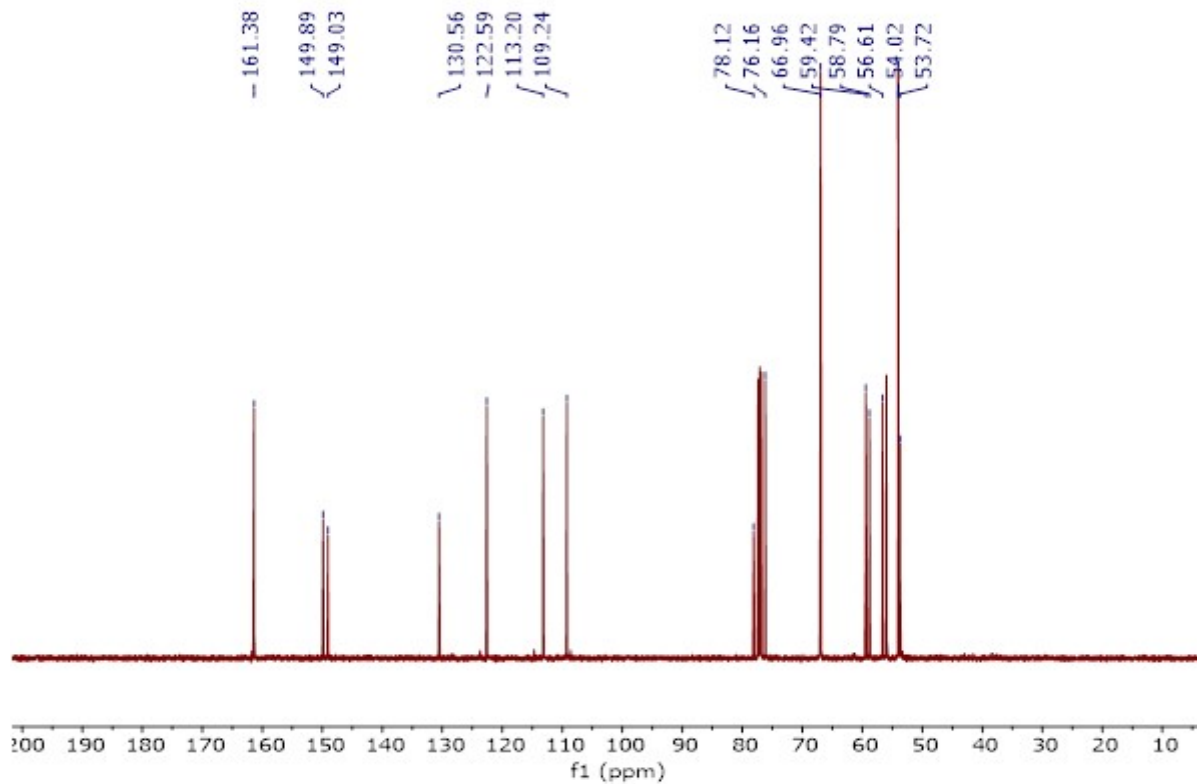
(Fig.S5)  $^1\text{H}$  NMR spectrum of compound 5b



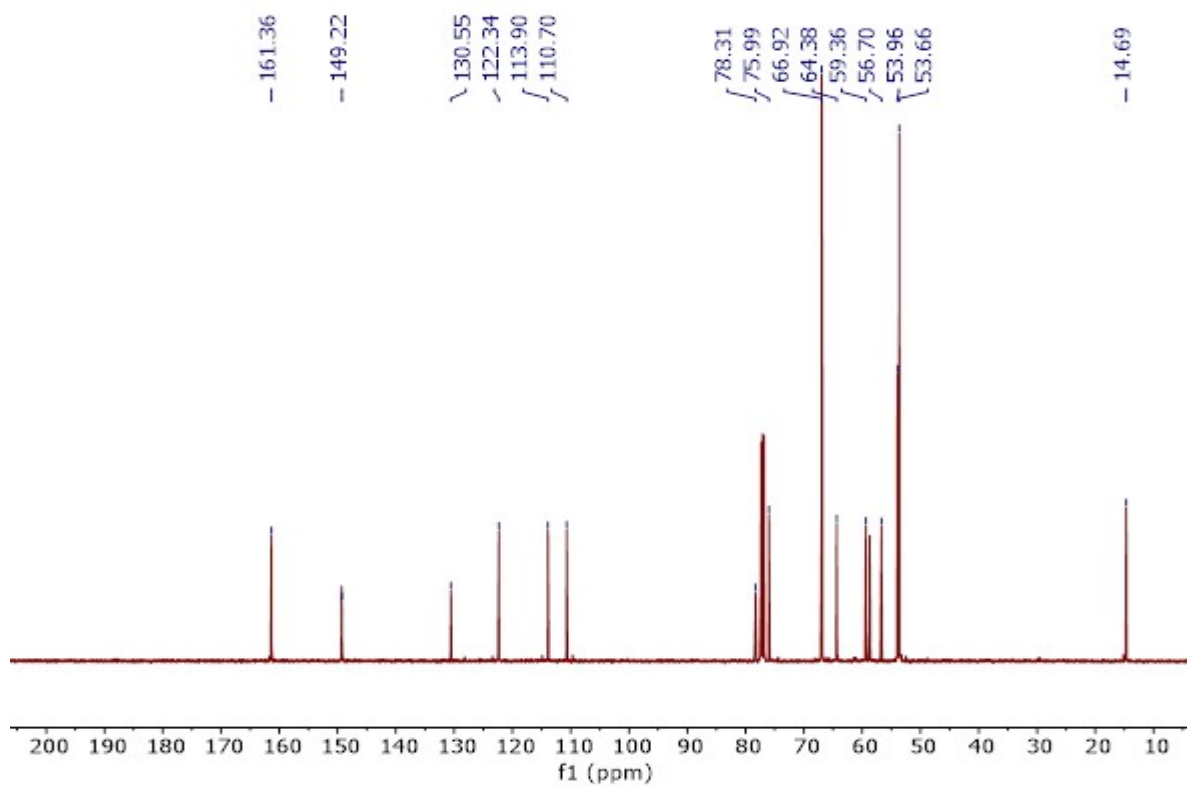
(Fig.S6)  $^1\text{H}$  NMR spectrum of compound 5c



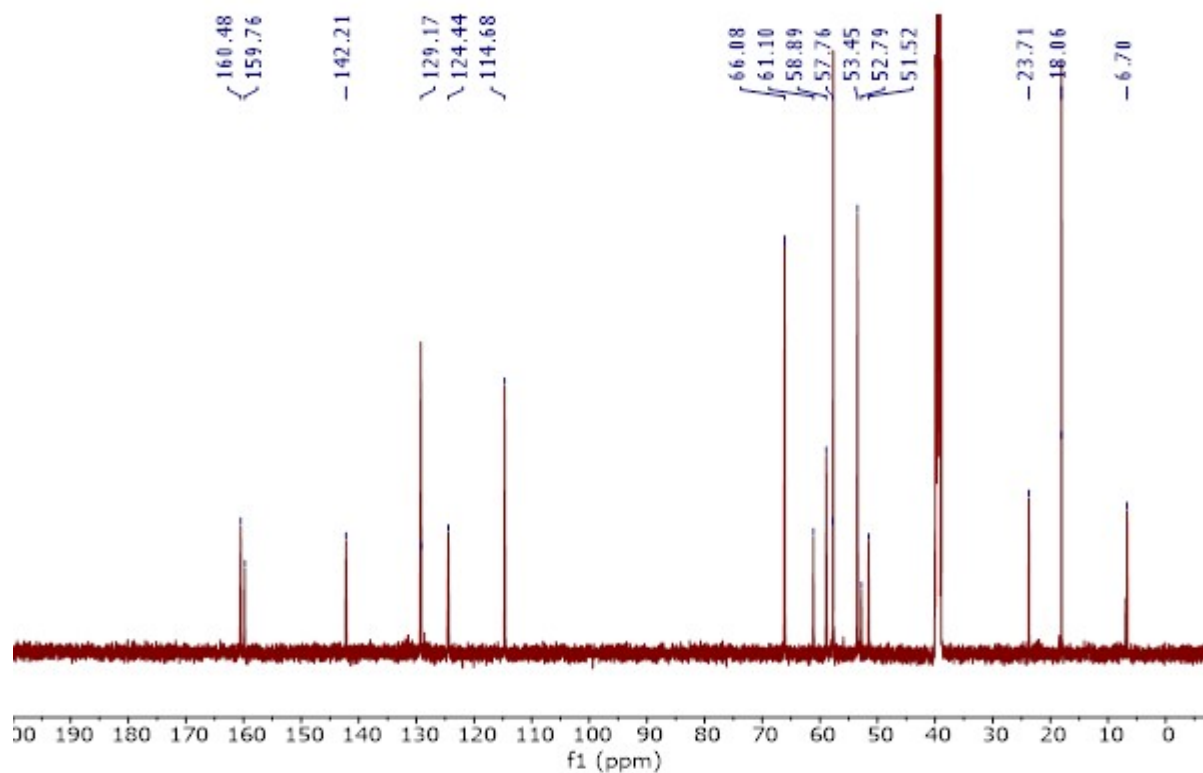
(Fig.S7)  $^{13}\text{C}$  NMR spectrum of compound 4a



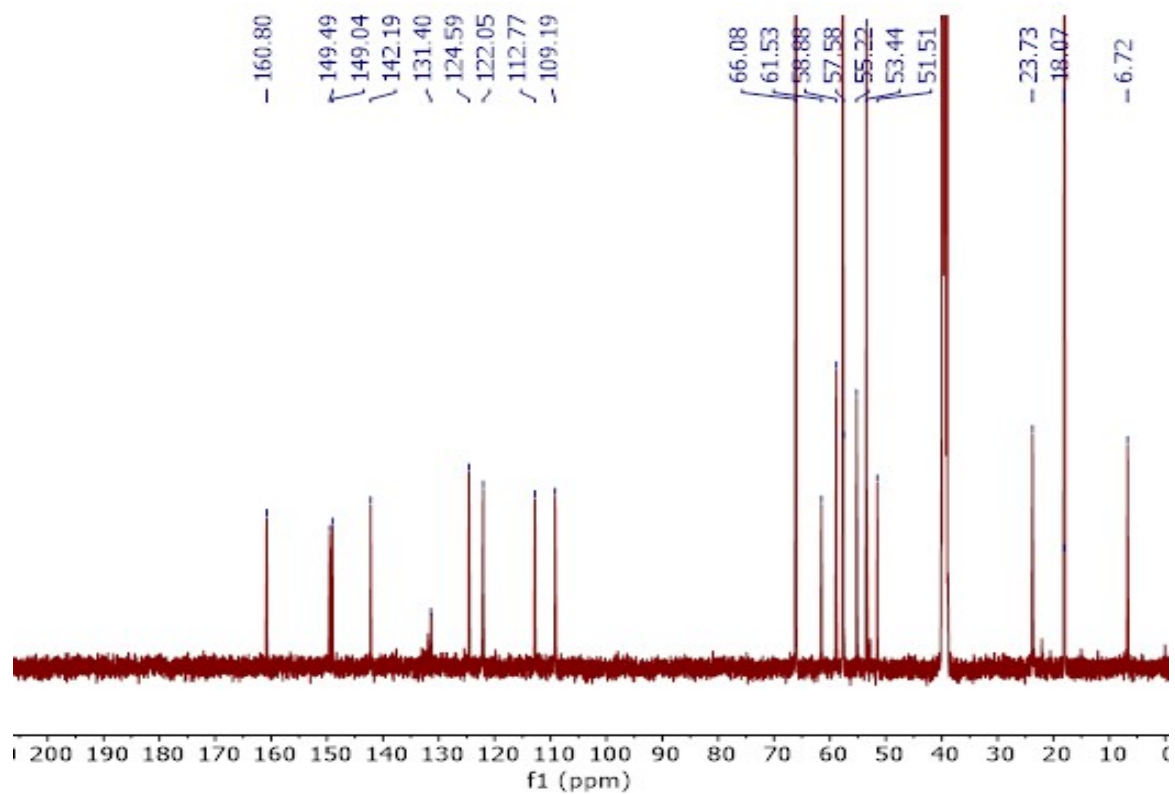
(Fig.S8)  $^{13}\text{C}$  NMR spectrum of compound 4b



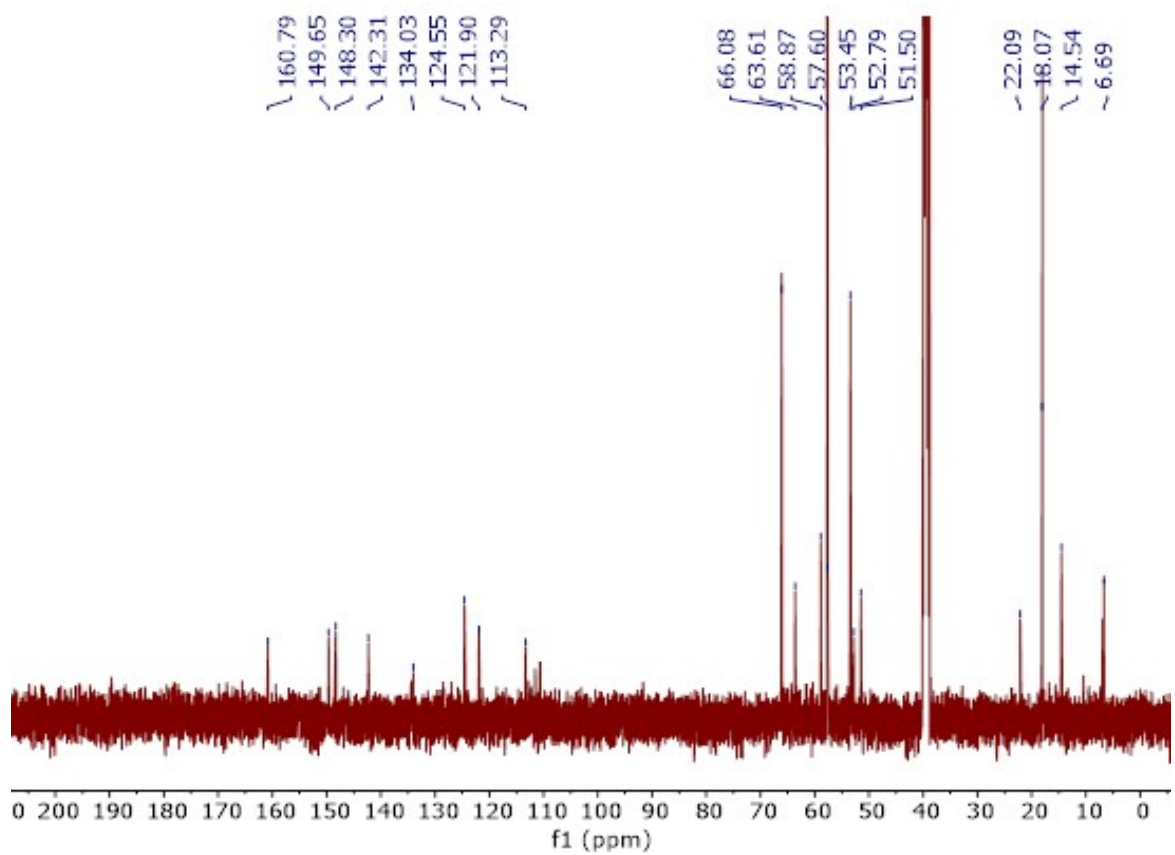
(Fig.S9)  $^{13}\text{C}$  NMR spectrum of compound 4c



(Fig.S10)  $^{13}\text{C}$  NMR spectrum of compound 5a

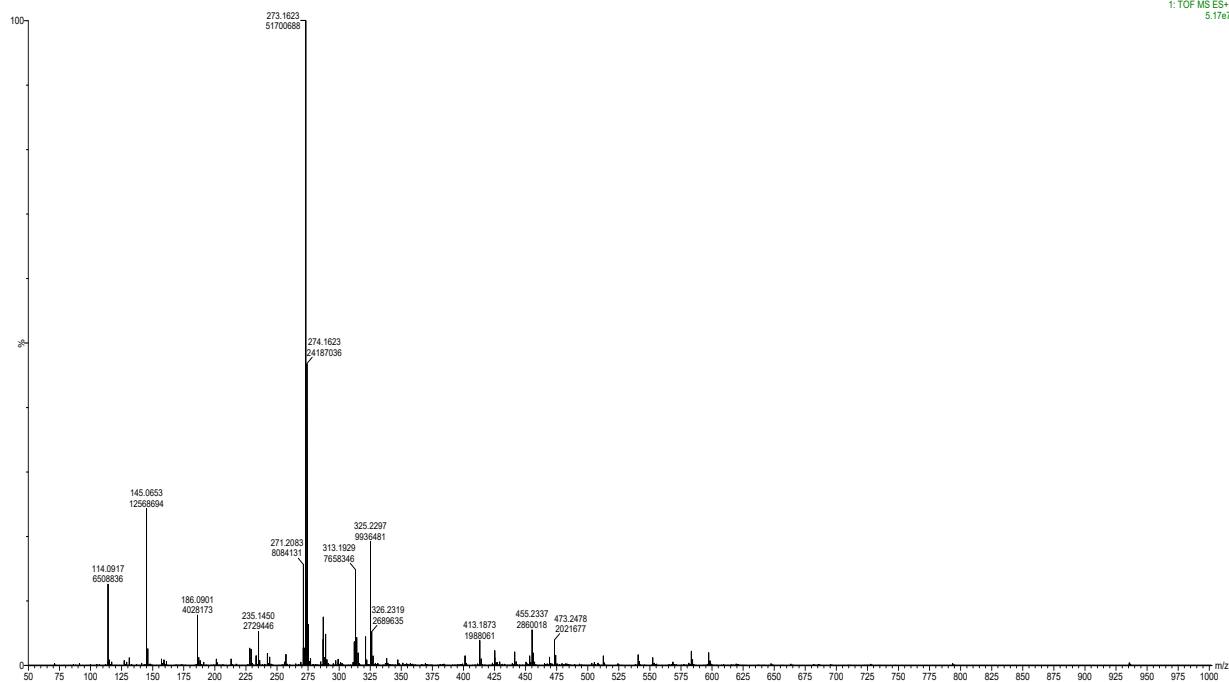


(Fig.S11)  $^{13}\text{C}$  NMR spectrum of compound 5b

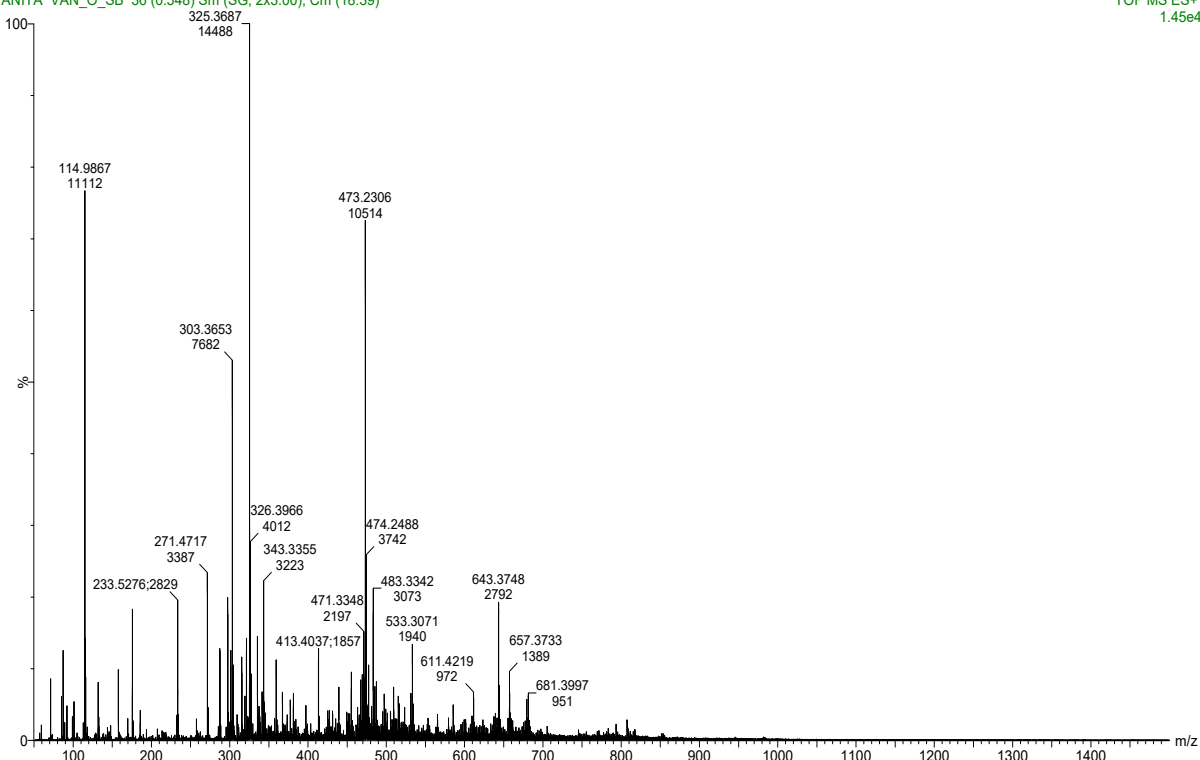


(Fig.S12)  $^{13}\text{C}$  NMR spectrum of compound 5c





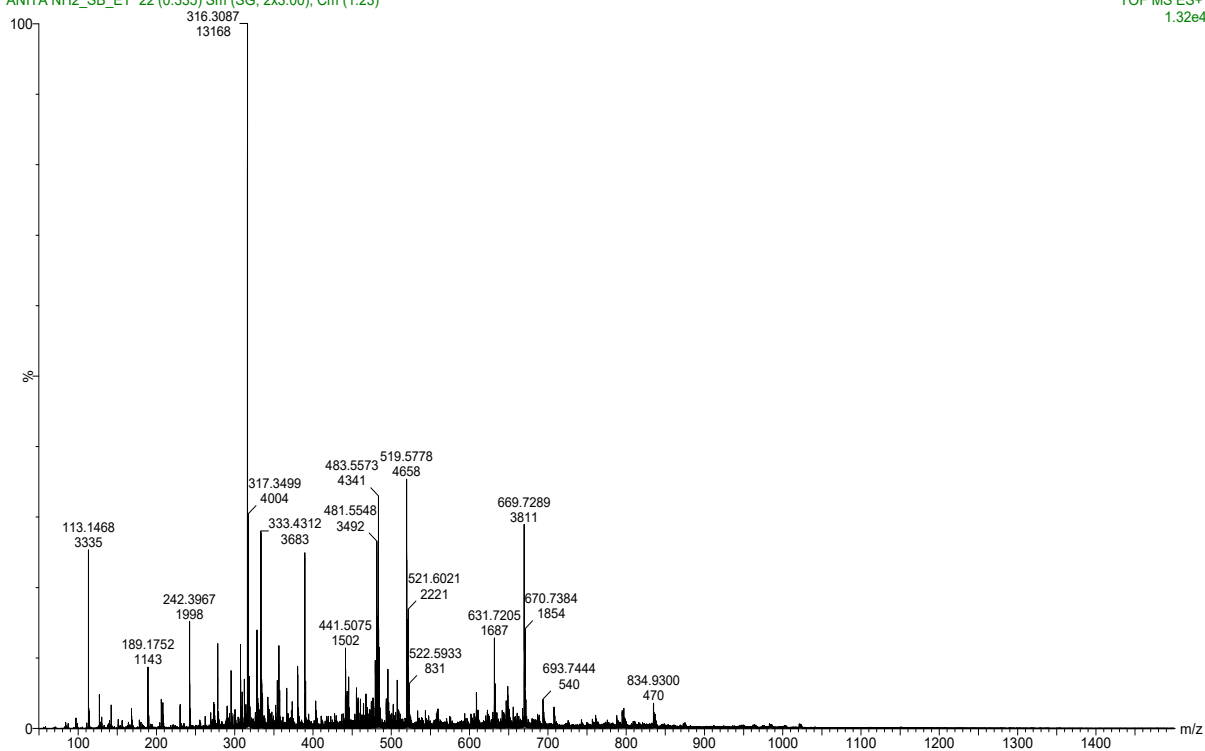
(Fig.S13) Mass spectrum of compound 4c



(Fig.S14) Mass spectrum of compound 4b

WATERS,Q-TOF MICROMASS (ESI-MS)  
ANITA NH2\_SB\_ET 22 (0.335) Sm (SG, 2x3.00); Cm (1:23)

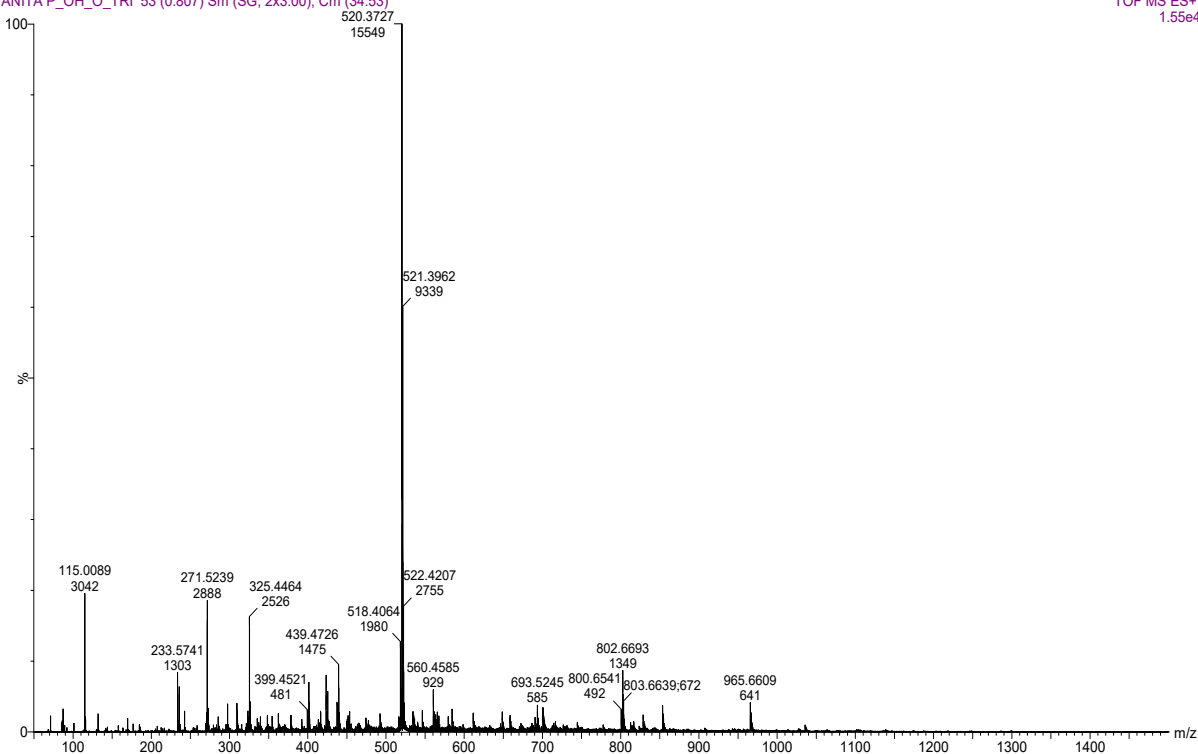
SAIF/CIL,PANJAB UNIVERSITY,CHANDIGARH  
TOF MS ES+  
1.32e4



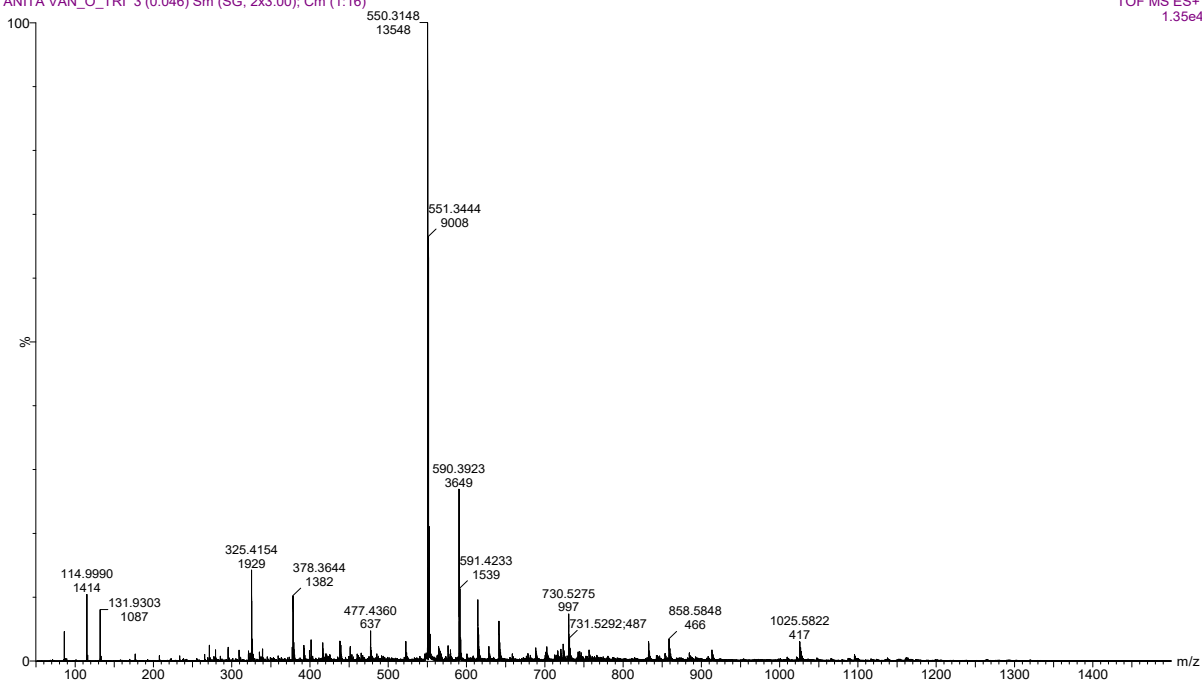
(Fig.S15) Mass spectrum of compound 4c

WATERS,Q-TOF MICROMASS (ESI-MS)  
ANITA P\_OH\_O\_TRI 53 (0.807) Sm (SG, 2x3.00); Cm (34:53)

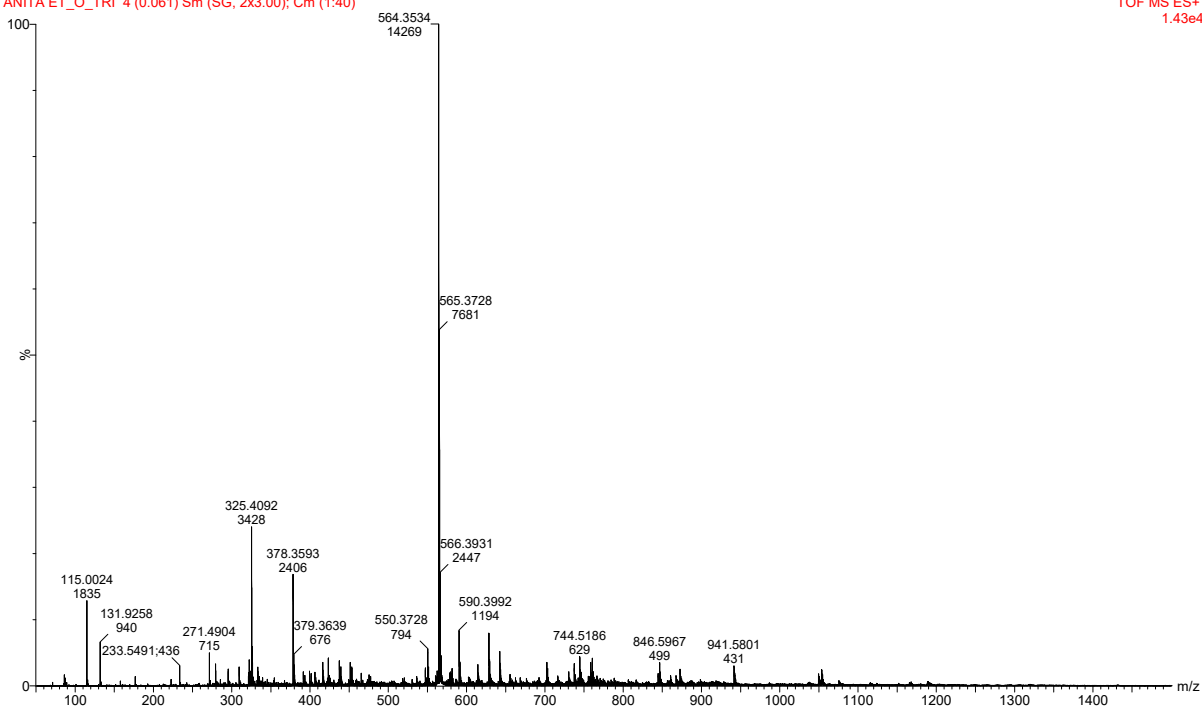
SAIF/CIL,PANJAB UNIVERSITY,CHANDIGARH  
TOF MS ES+  
1.55e4



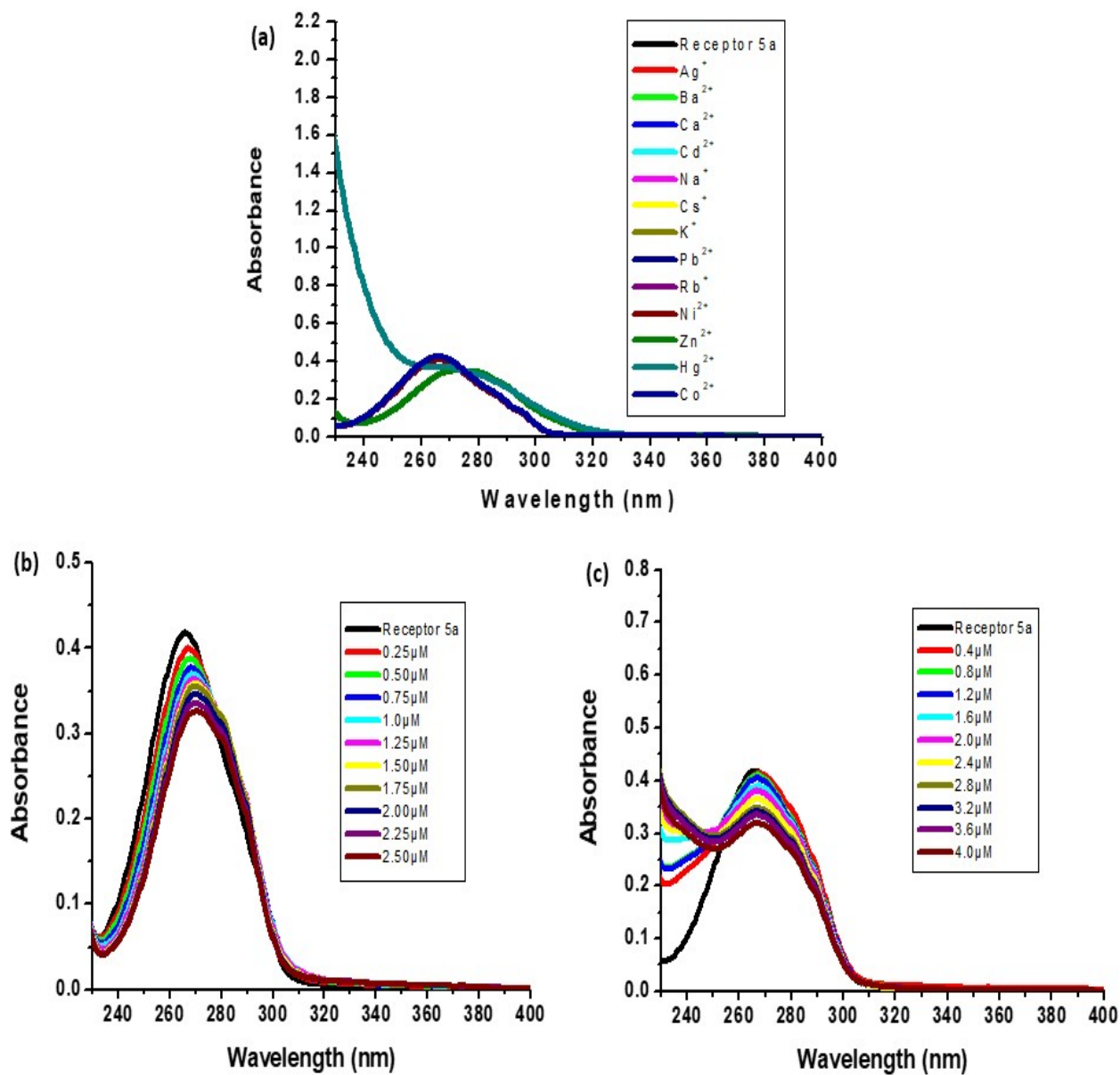
(Fig.S16) Mass spectrum of compound 5a



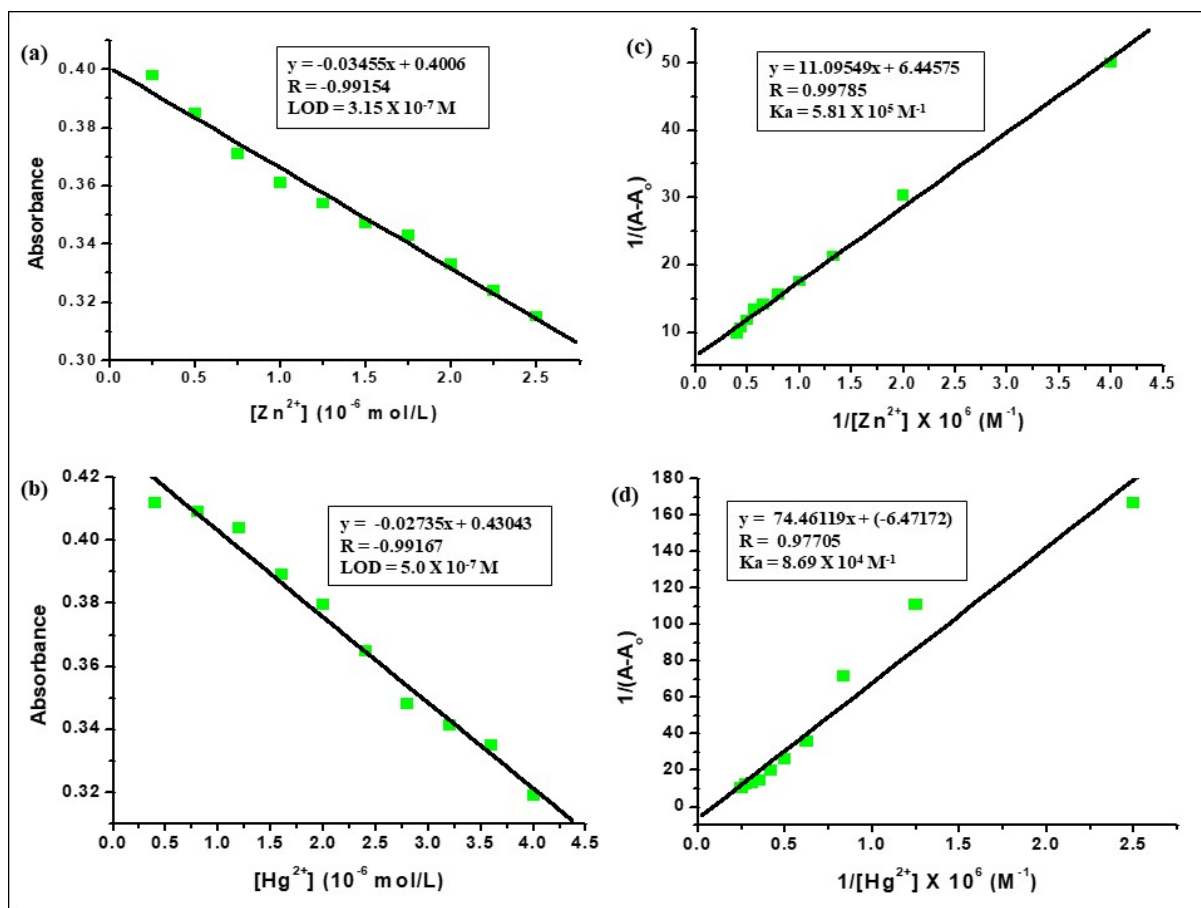
(Fig.S17) Mass spectrum of compound 5b



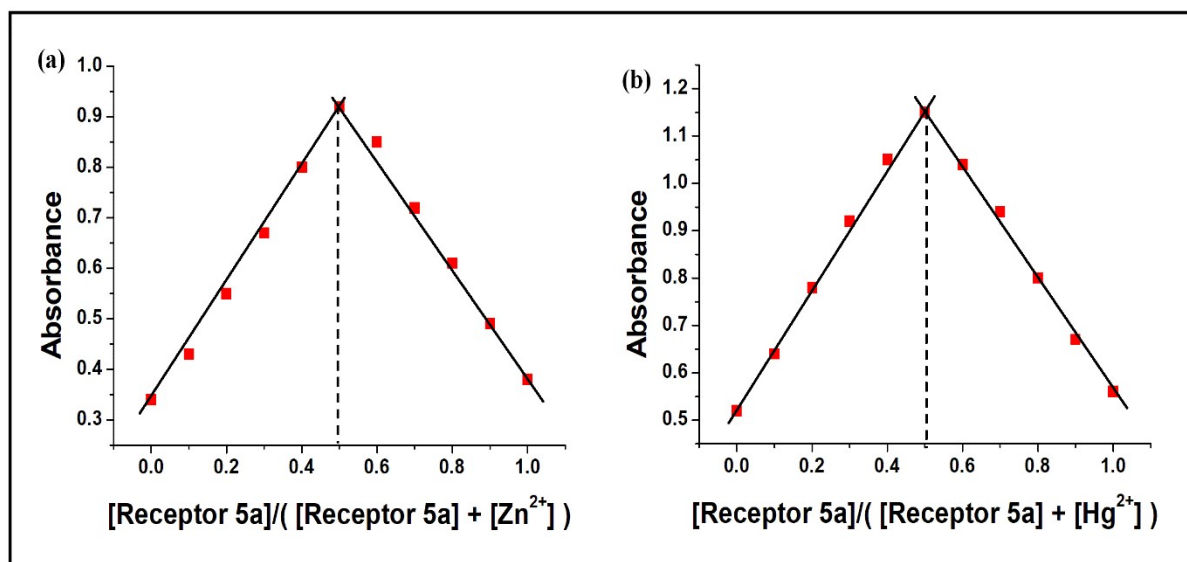
(Fig.S18) Mass spectrum of compound 5c



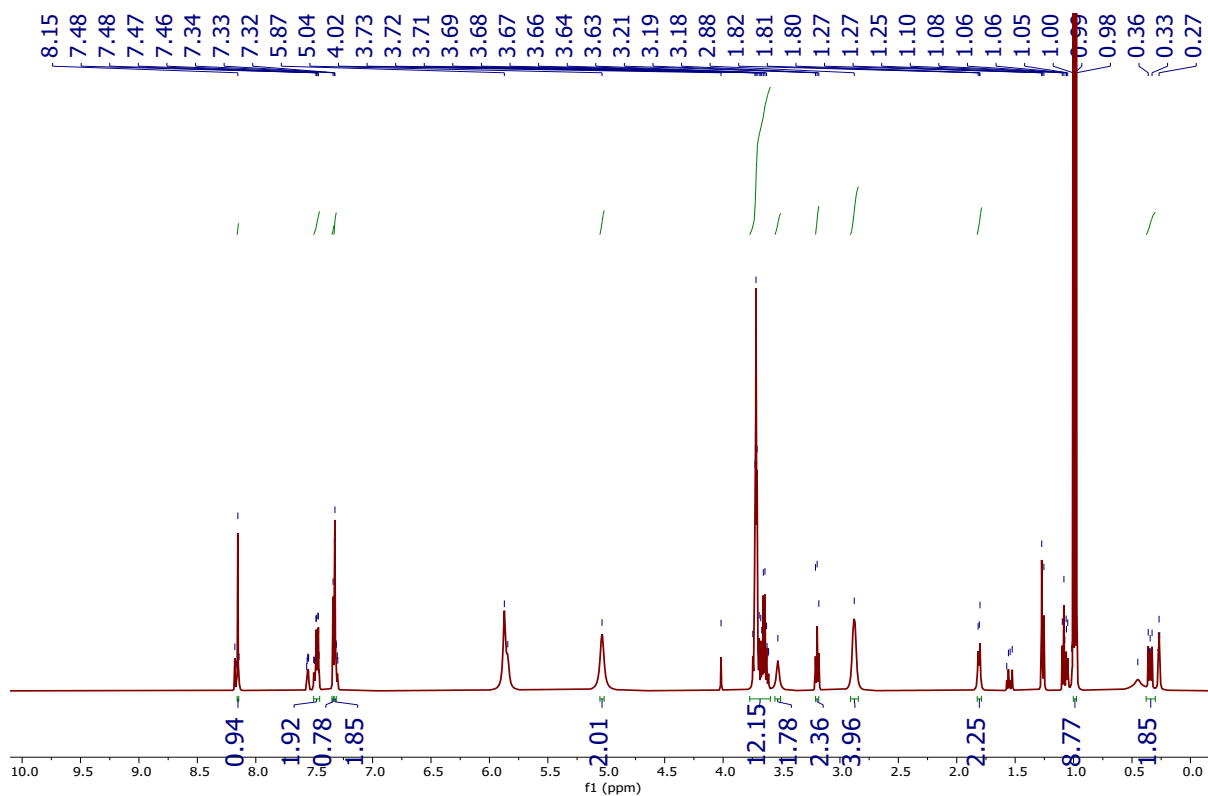
(Fig.S19) (a) Absorption spectra of receptor 5a in the presence of various metal ions in MeOH–H<sub>2</sub>O (9:1 v/v) solvent. UV-Visible absorption spectra after addition of increasing amount of (b) Zn<sup>2+</sup> (c) Hg<sup>2+</sup> in MeOH-H<sub>2</sub>O (9:1 v/v) solution.



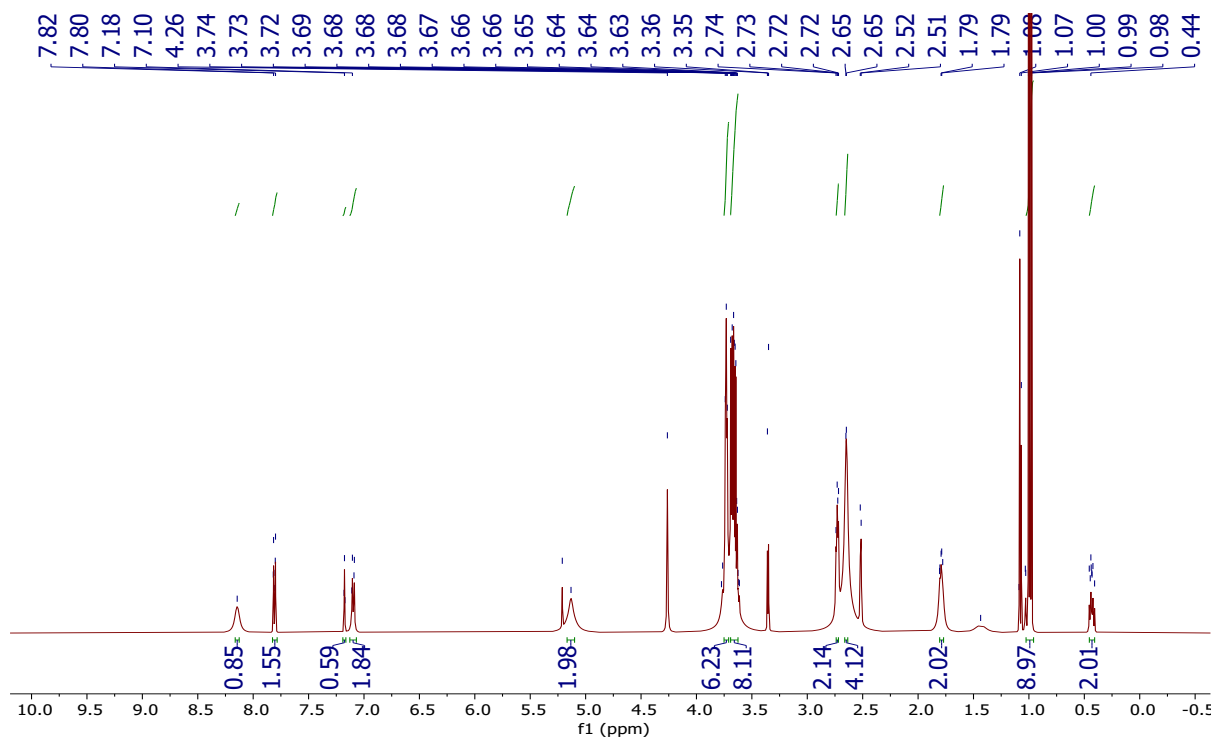
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(Fig.S21) Job's Plot for receptor 5a (a) Zn<sup>2+</sup> and (b) Hg<sup>2+</sup>.



(Fig.S22)  $^1\text{H}$  NMR spectrum of compound 5a and  $\text{Zn}^{2+}$  complex



(Fig.S23)  $^1\text{H}$  NMR spectrum of compound 5a and  $\text{Hg}^{2+}$  complex