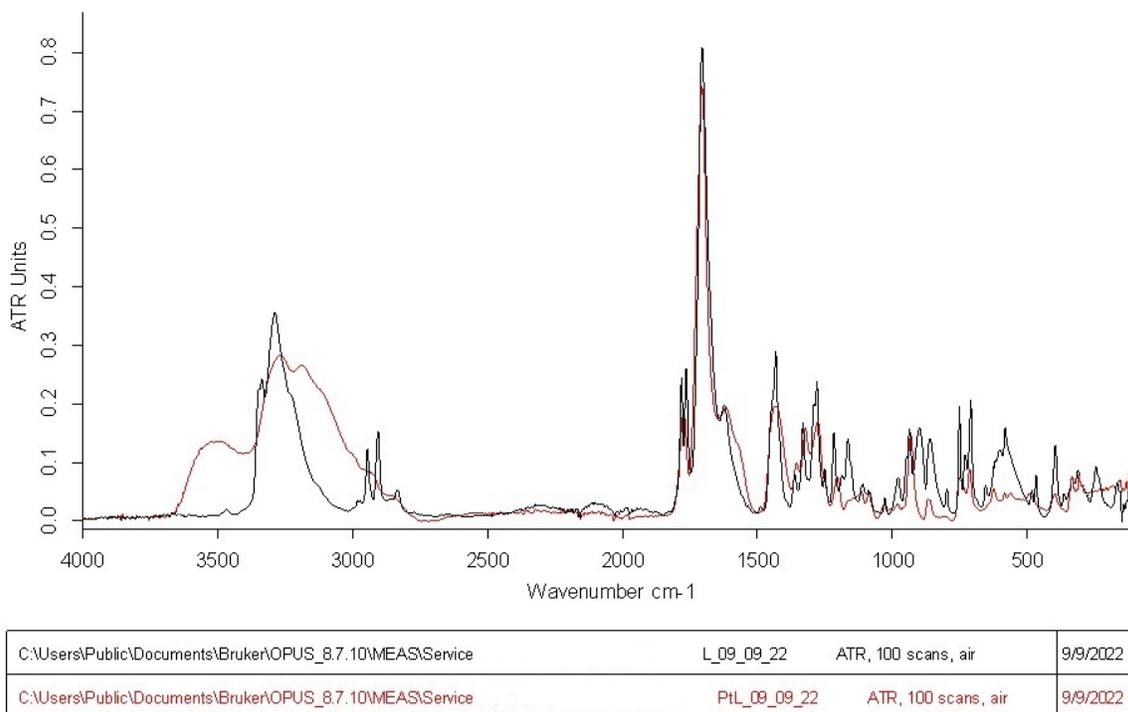


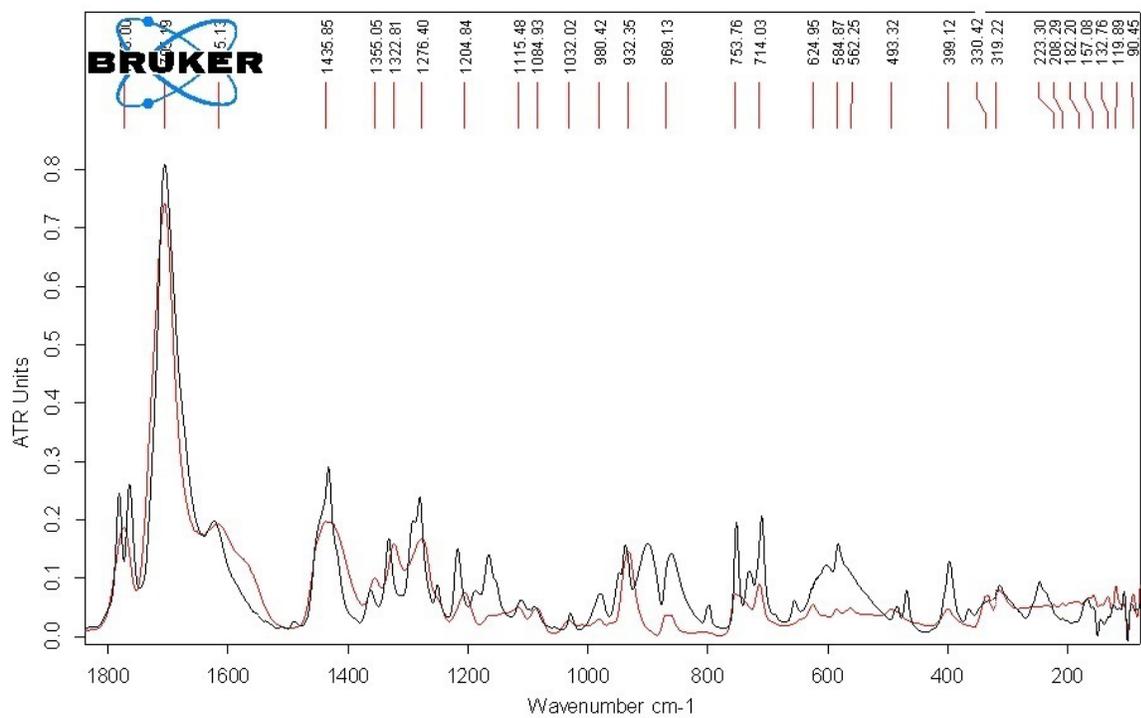
## Supplementary materials

Manuscript ID: inorganics-1882113

Title: 3'-Aminothiocylohexanespiro-5'-Hydantoin and its Pt(II) Complex – Synthesis, Cytotoxicity and Xanthine Oxidase Inhibitory Activity



**Figure S1.** Experimental IR spectra of the ligand **1** (black) and complex **2** (red) in the range 4000-100  $\text{cm}^{-1}$ .



C:\Users\Public\Documents\Bruker\OPUS_8.7.10\MEAS\Service	L_09_09_22	ATR, 100 scans, air	9/9/2022
C:\Users\Public\Documents\Bruker\OPUS_8.7.10\MEAS\Service	PTL_09_09_22	ATR, 100 scans, air	9/9/2022

**Figure S2.** Experimental IR spectra of the ligand **1**(black) and complex **2**(red) in the range 1800-100 cm<sup>-1</sup>.

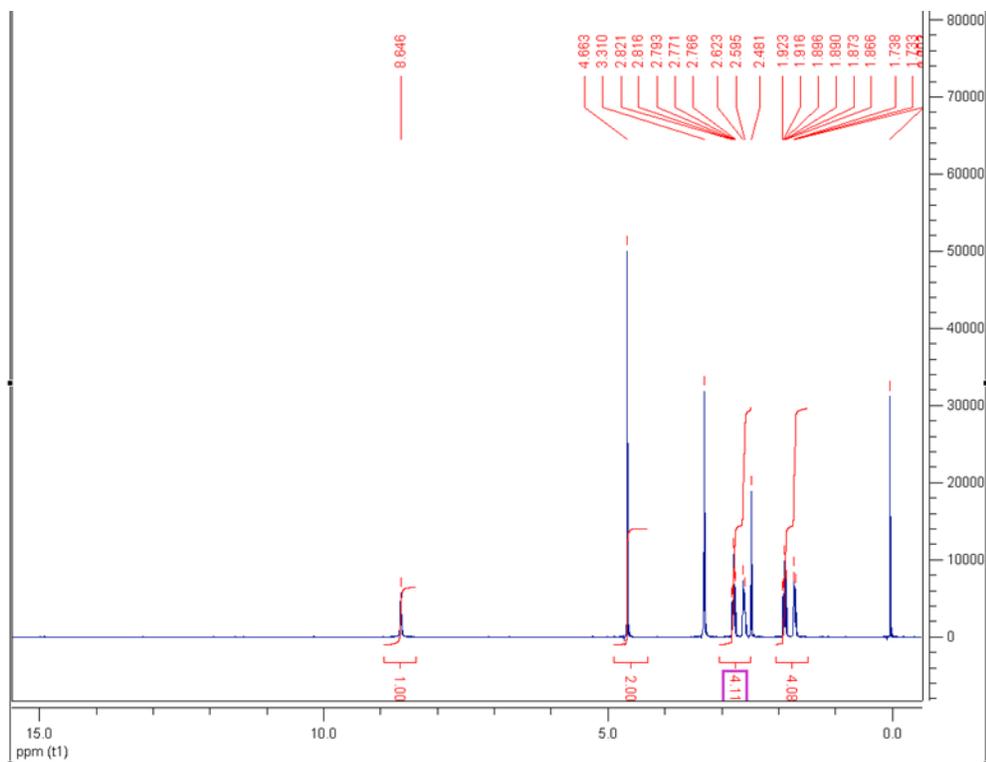


Figure S3. <sup>1</sup>H NMR spectrum of the ligand 1.

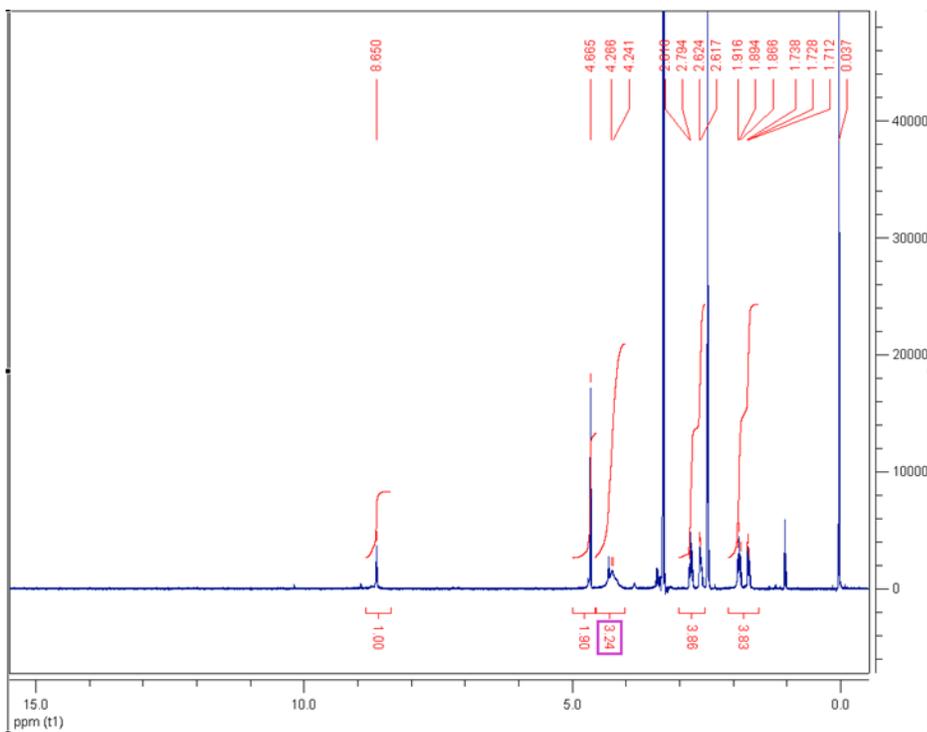
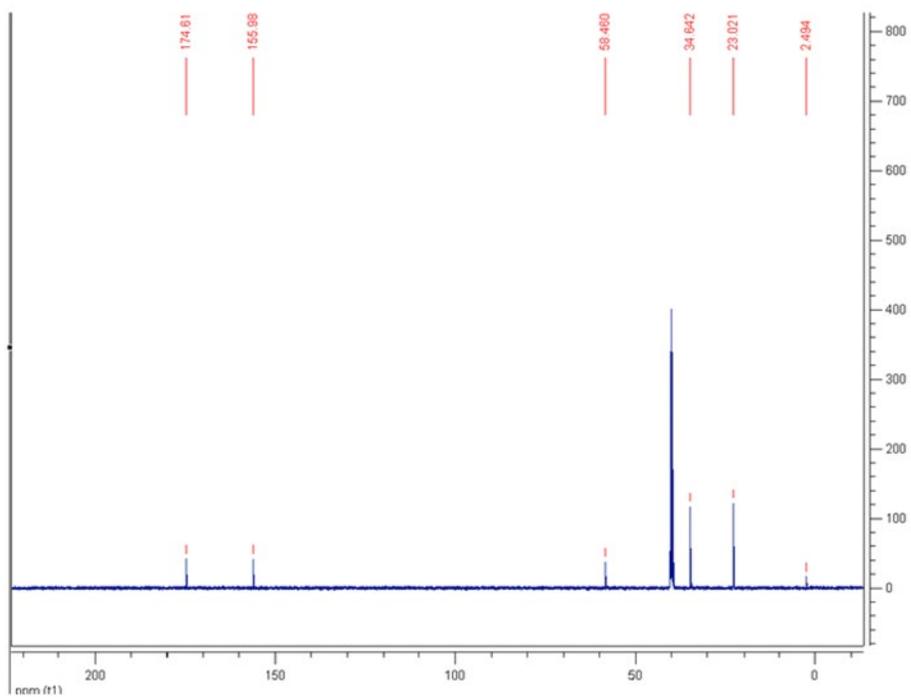
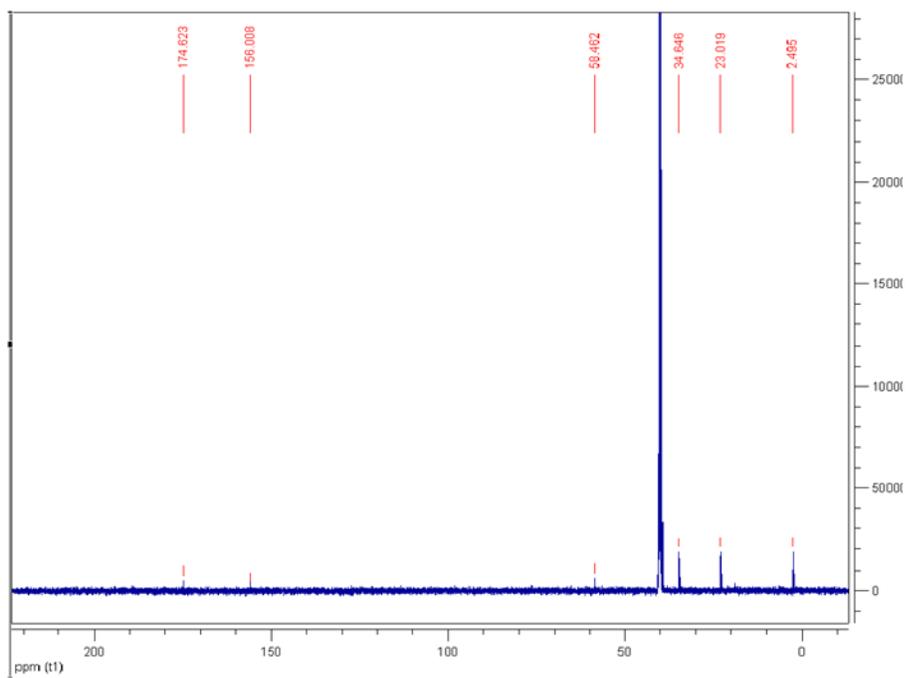


Figure S4. <sup>1</sup>H NMR spectrum of complex 2.

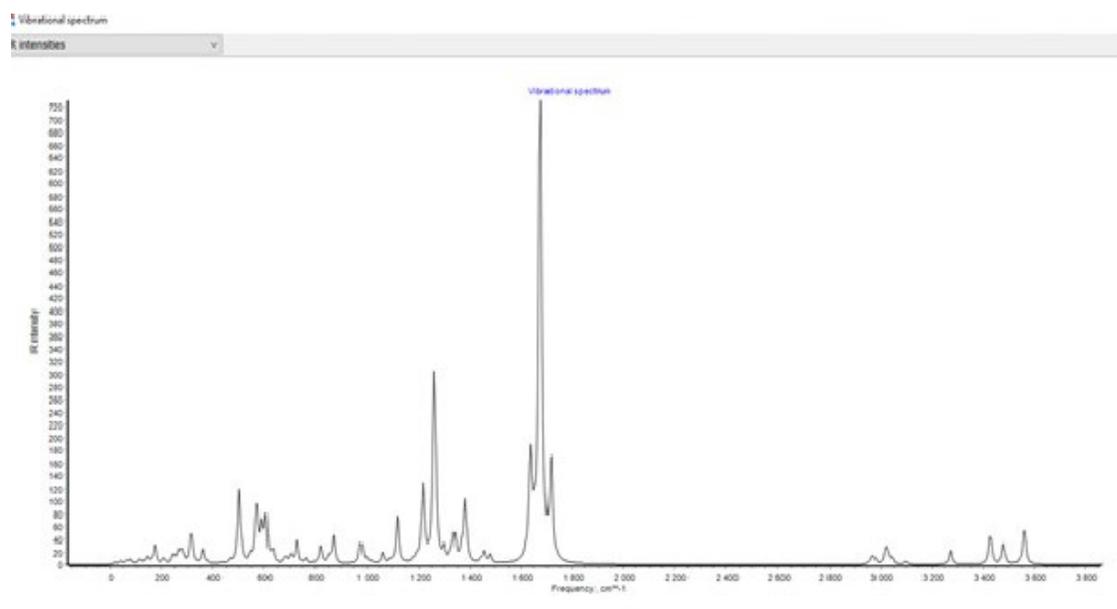


**Figure S5.** <sup>13</sup>C NMR spectrum of ligand 1.



**Figure S6.** <sup>13</sup>C NMR spectrum of complex 2.

## Cis-isomer



**Figure S7.** Theoretical IR spectra of the *cis*- and *trans*-isomers of the complex 2.

## Trans-isomer

