

Petya Marinova, Dimitar Stoitsov, Nikola Burdzhiev, Slava Tsoneva, Denica Blazheva, Aleksandar Slavchev, Evelina Varbanova and Plamen Penchev, "Synthesis and Biological study of new Cu(II) and Au(III) complexes of 2,4-dithiouracil and its derivatives", Applied Sciences, 2024

Supplementary file

Petya Marinova ^{1,*}, Dimitar Stoitsov ², Nikola Burdzhiev ³, Slava Tsoneva ², Denica Blazheva ⁴, Aleksandar Slavchev ⁴, Evelina Varbanova ² and Plamen Penchev ²

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1. NMR solution spectra of 2,4-dithiouracil

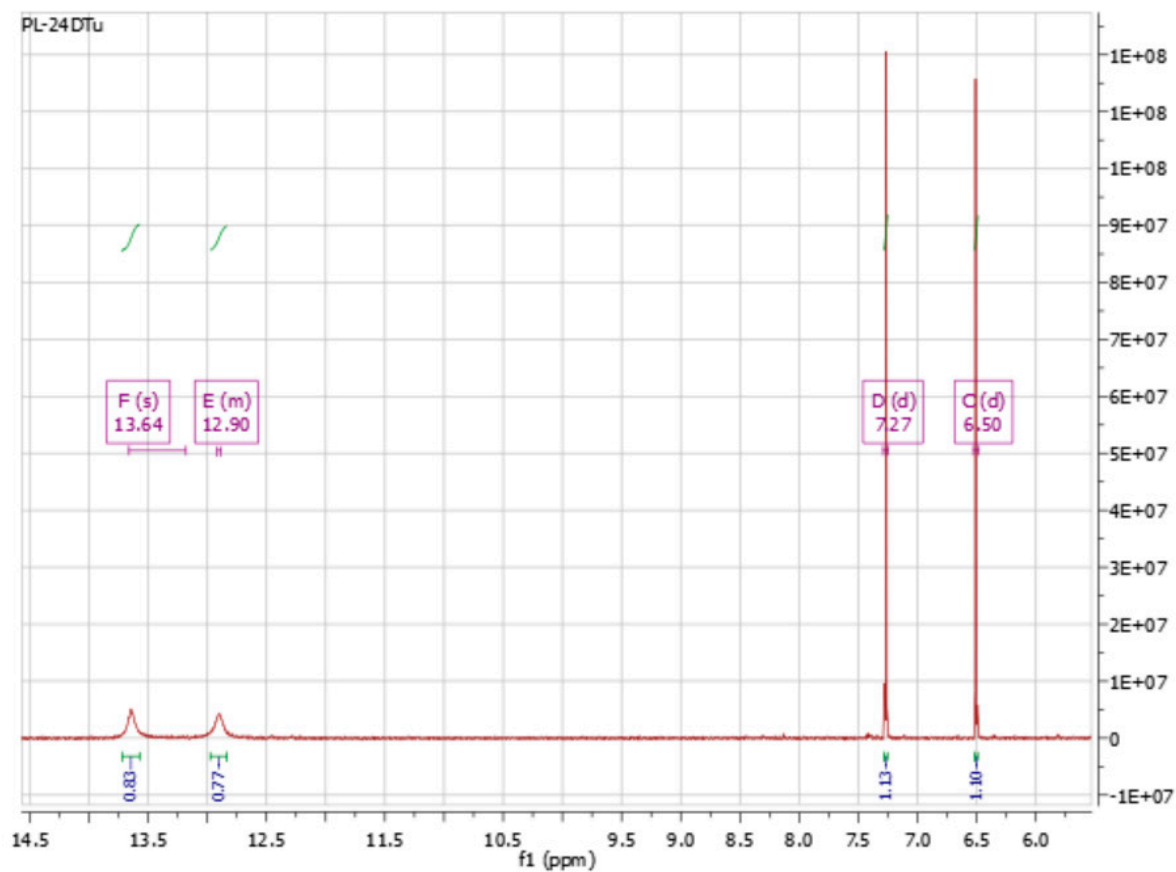


Figure S1 ^1H NMR

Petya Marinova, Dimitar Stoitsov, Nikola Burdzhiev, Slava Tsoneva, Denica Blazheva, Aleksandar Slavchev, Evelina Varbanova and Plamen Penchev, "Synthesis and Biological study of new Cu(II) and Au(III) complexes of 2,4-dithiouracil and its derivatives", *Applied Sciences*, 2024

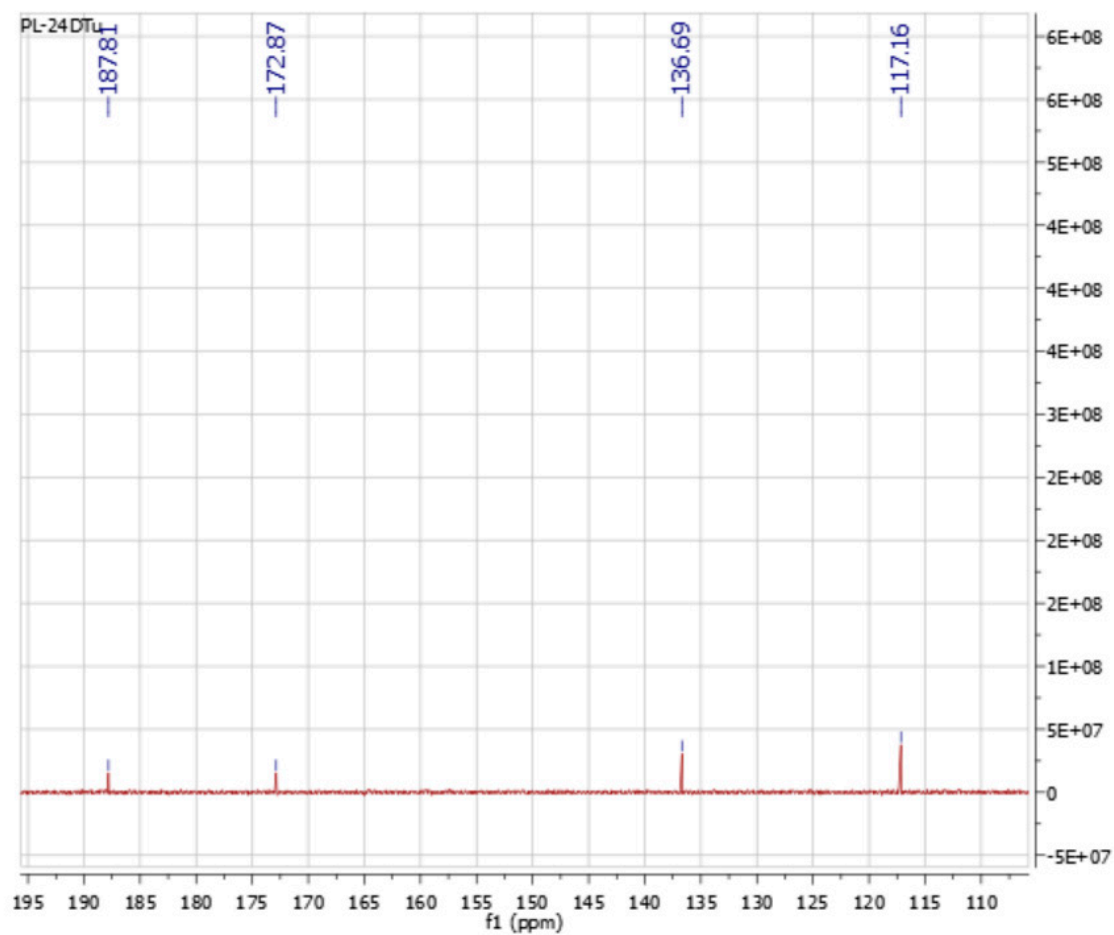


Figure.S2 ^{13}C NMR

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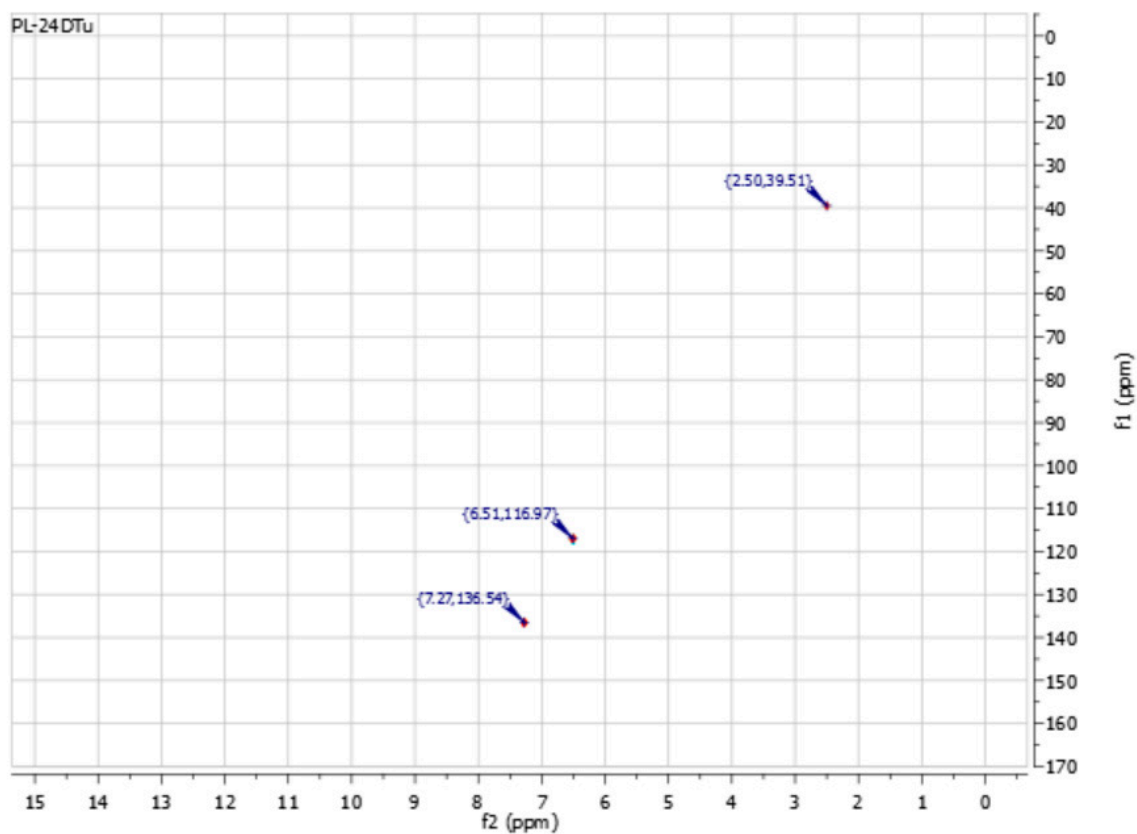


Figure S3 HSQC

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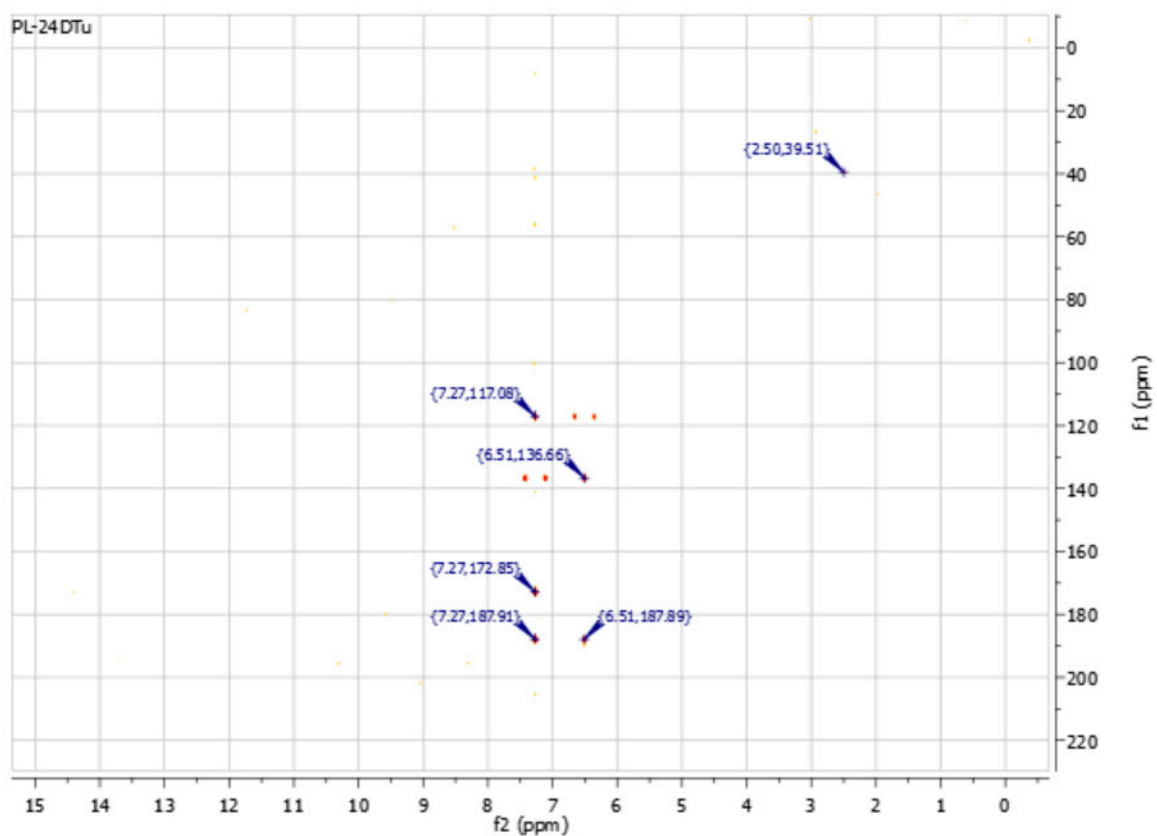


Figure S4 HMBC

Petya Marinova, Dimitar Stoitsov, Nikola Burdzhiev, Slava Tsoneva, Denica Blazheva, Aleksandar Slavchev, Evelina Varbanova and Plamen Penchev, "Synthesis and Biological study of new Cu(II) and Au(III) complexes of 2,4-dithiouracil and its derivatives", *Applied Sciences*, 2024

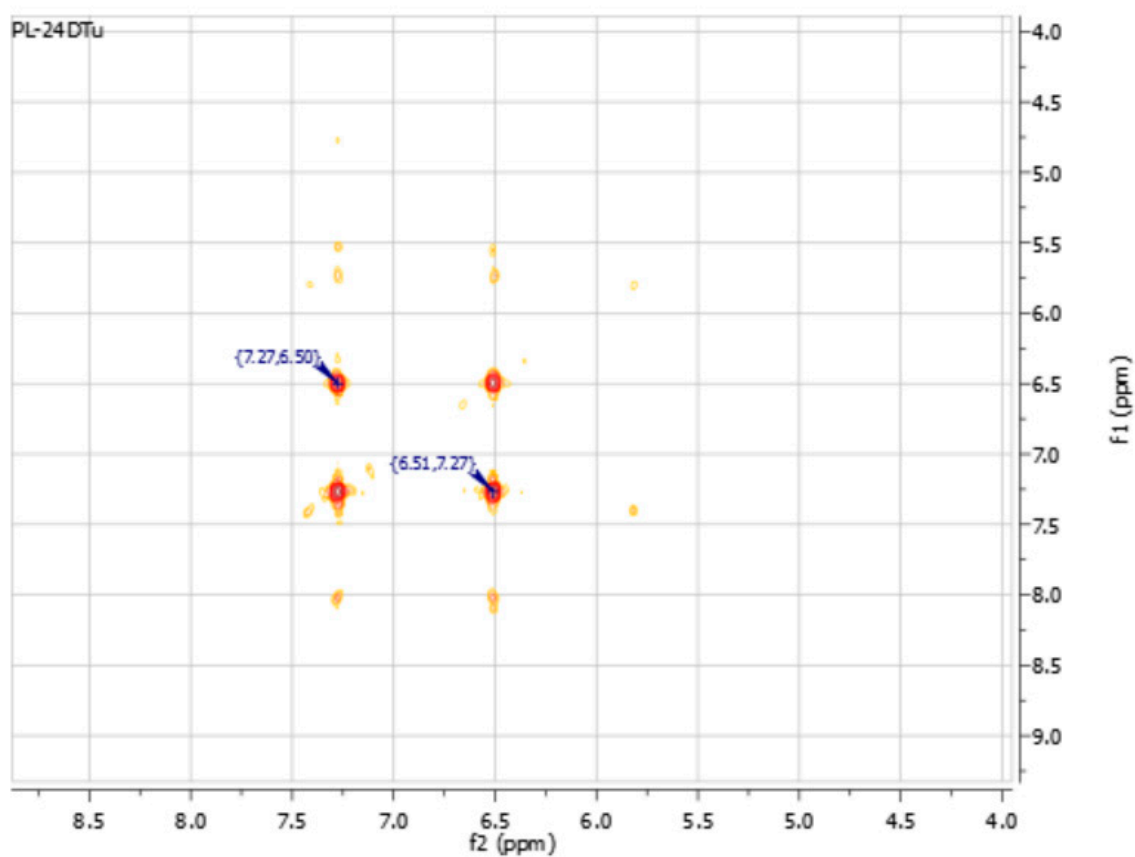


Figure S5 ^1H - ^1H COSY

Petya Marinova, Dimitar Stoitsov, Nikola Burdzhiev, Slava Tsoneva, Denica Blazheva, Aleksandar Slavchev, Evelina Varbanova and Plamen Penchev, "Synthesis and Biological study of new Cu(II) and Au(III) complexes of 2,4-dithiouracil and its derivatives", *Applied Sciences*, 2024

2. NMR solution spectra of the Au and Cu complexes

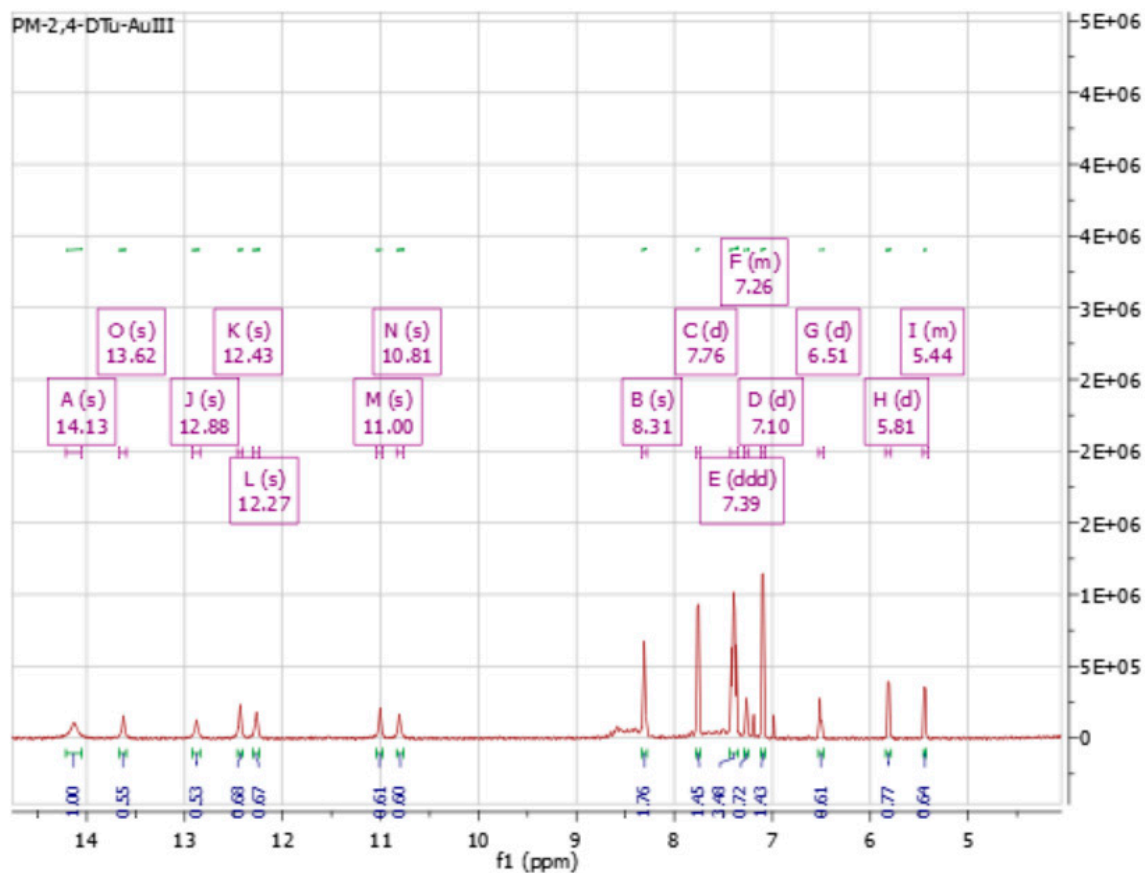


Figure S6 ^1H NMR of the Au complex

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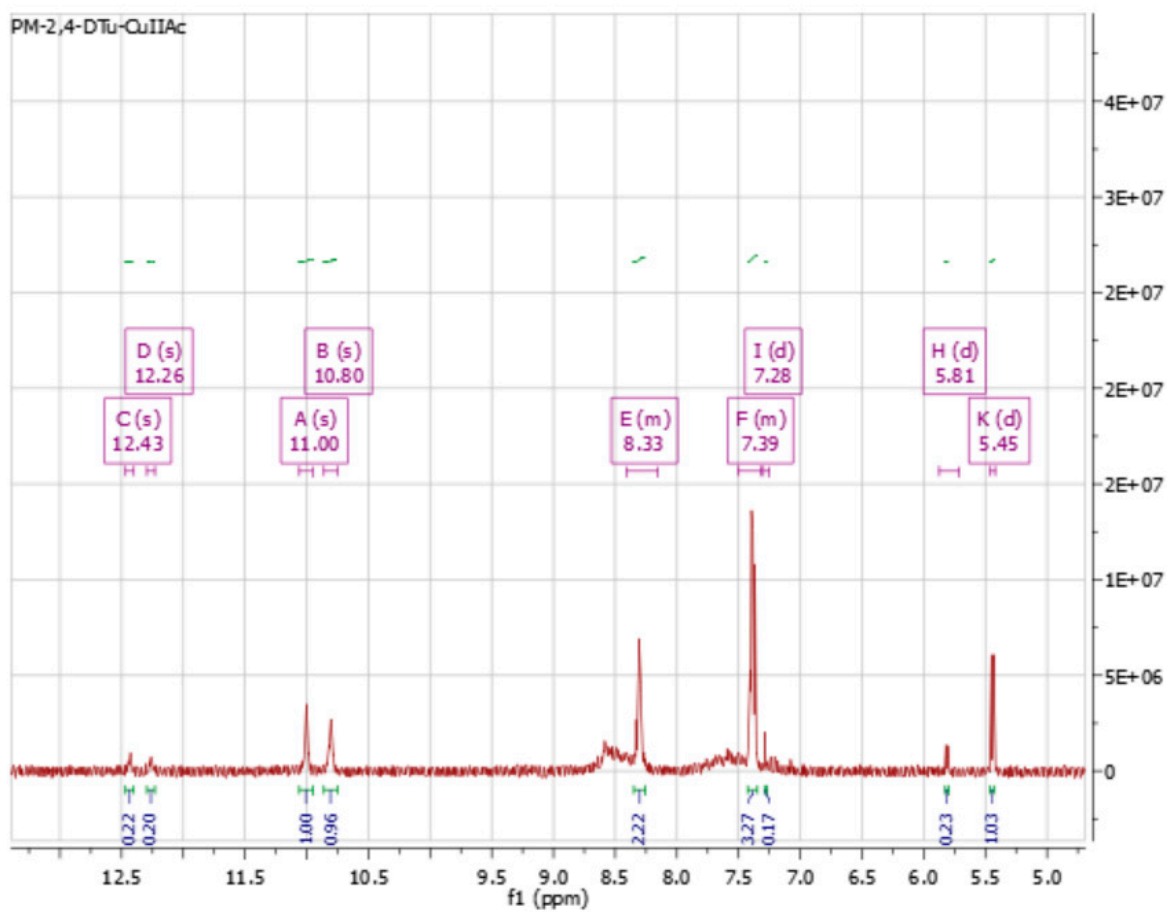


Figure S7 ^1H NMR of the Cu complex

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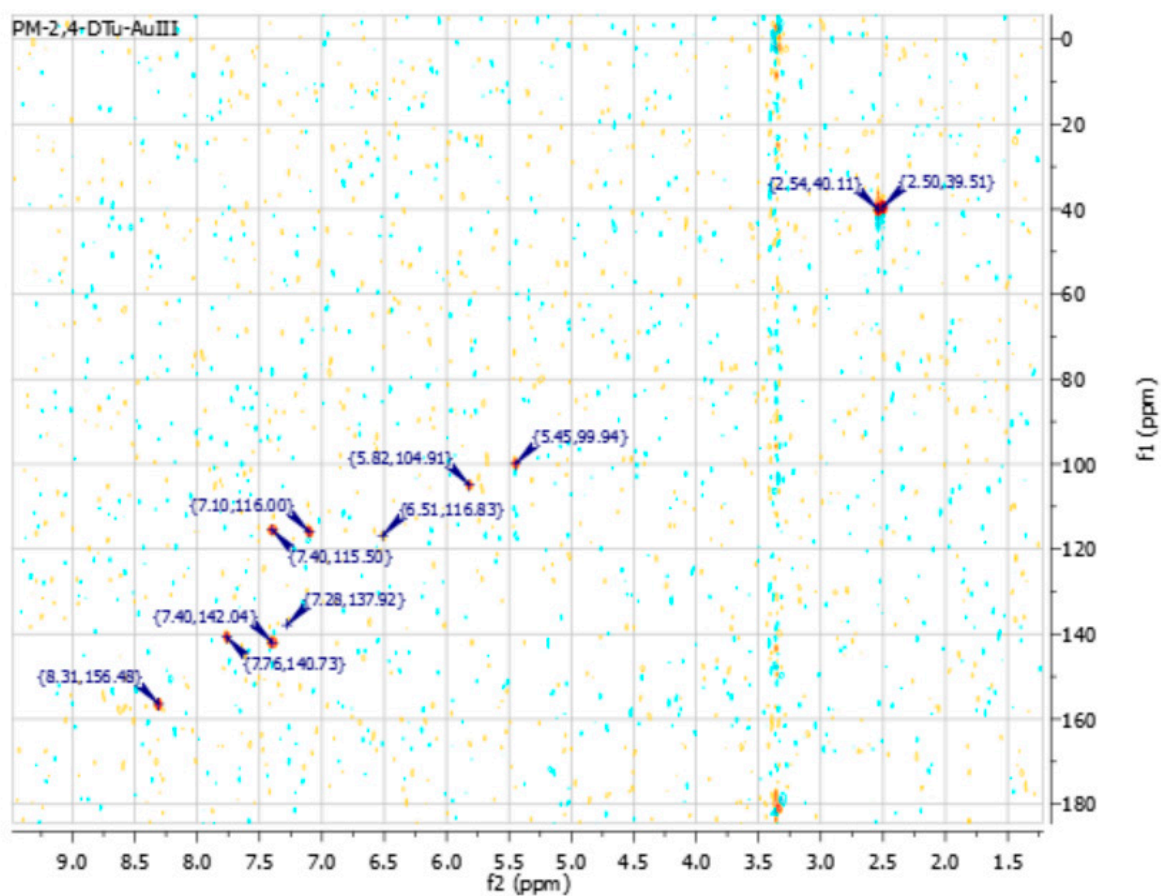


Figure S8 HSQC of the Au complex

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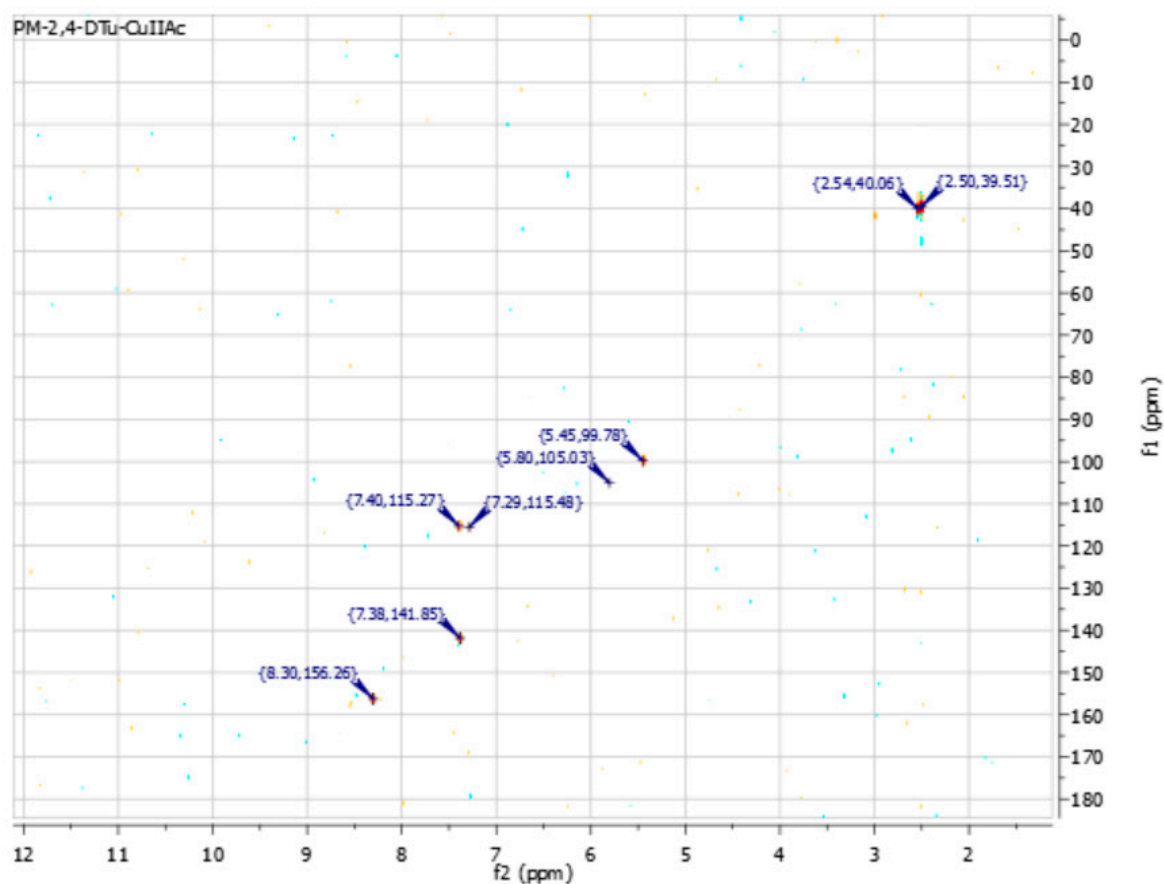


Figure S9 HSQC of the Cu complex

Petya Marinova, Dimitar Stoitsov, Nikola Burdzhiev, Slava Tsoneva, Denica Blazheva, Aleksandar Slavchev, Evelina Varbanova and Plamen Penchev, "Synthesis and Biological study of new Cu(II) and Au(III) complexes of 2,4-dithiouracil and its derivatives", *Applied Sciences*, 2024

3. ATR and Raman spectra

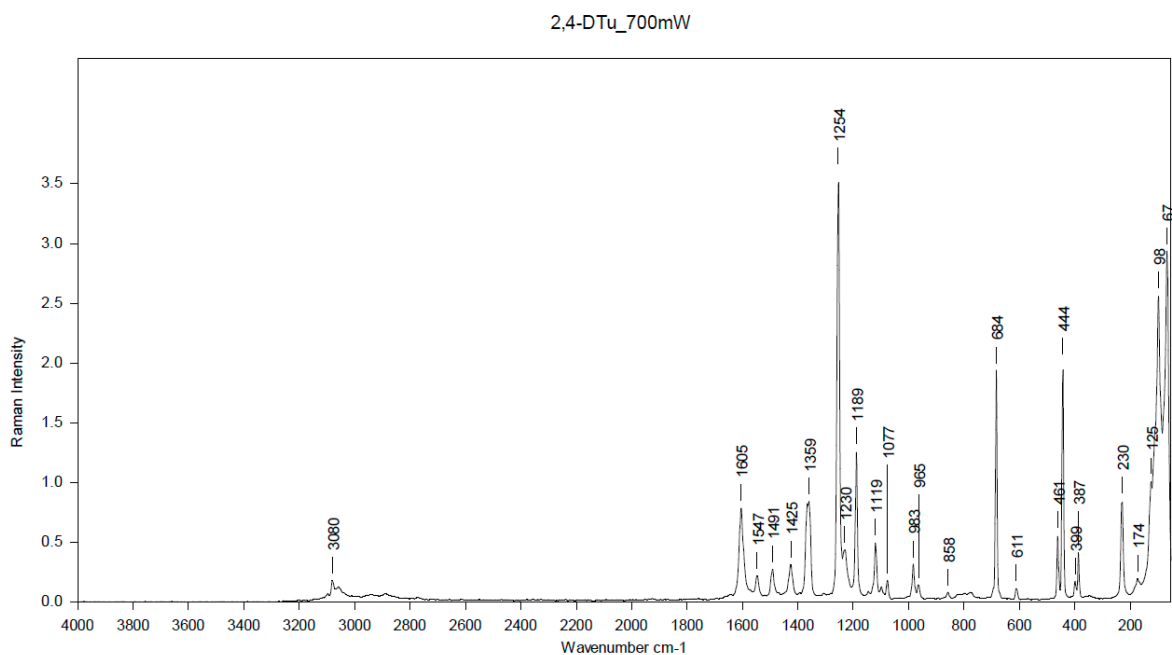


Figure S10 Raman of 2,4-dithiouracil

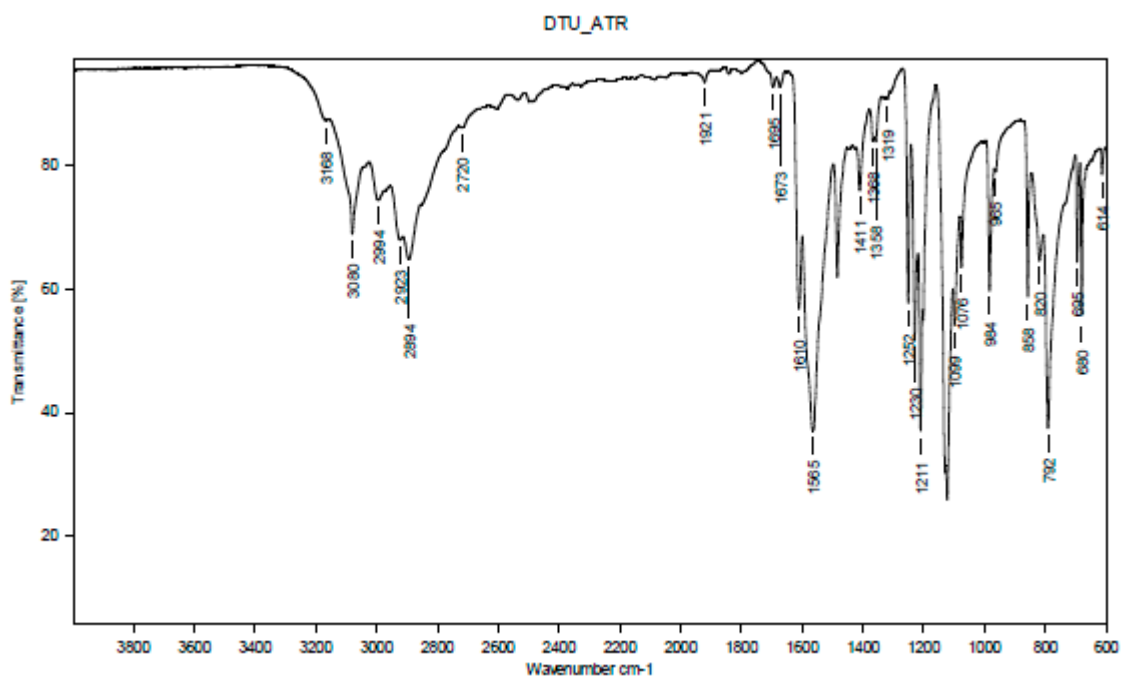


Figure S11 ATR of 2,4-dithiouracil

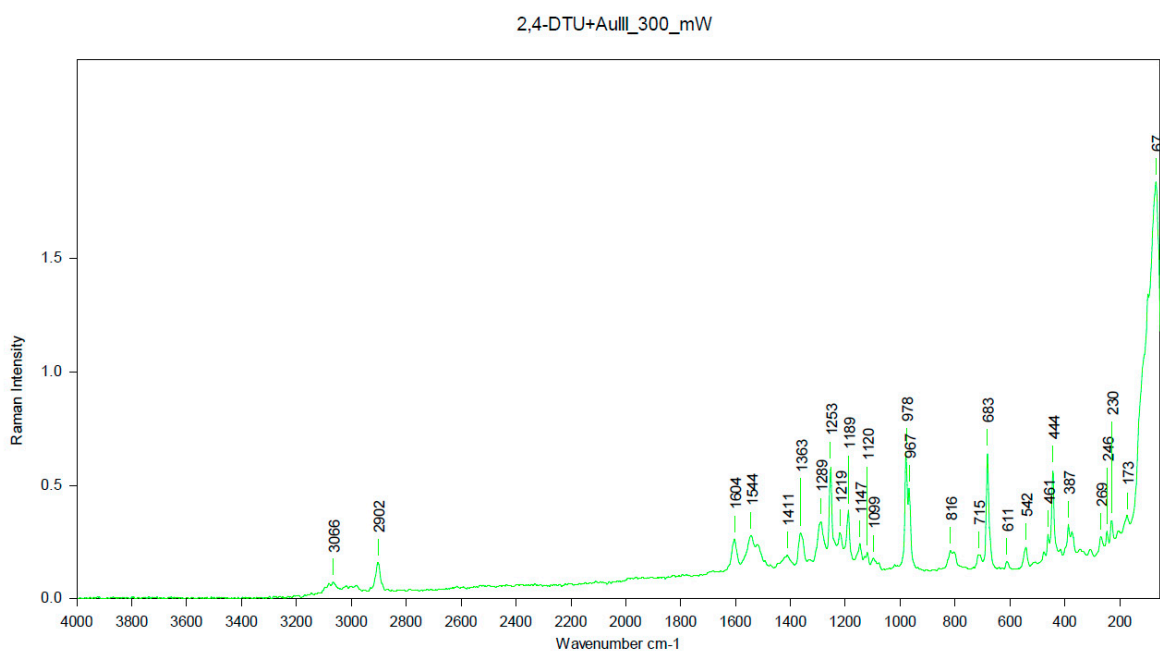


Figure S12 Raman of the Au complex

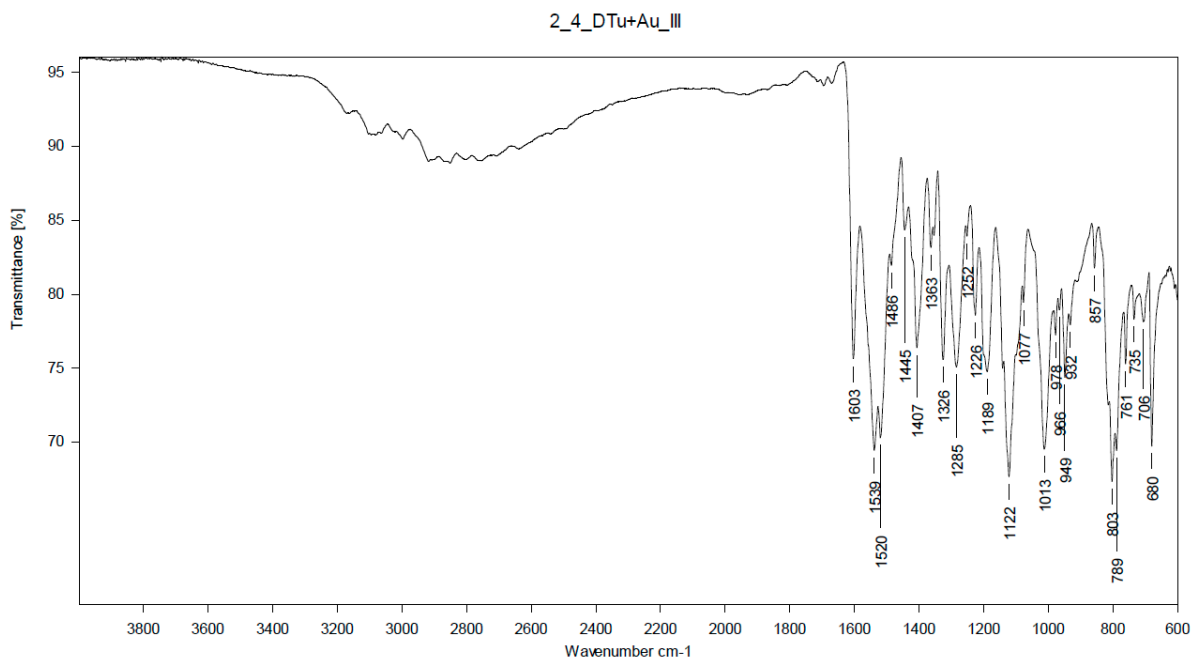


Figure S13 ATR of the Au complex

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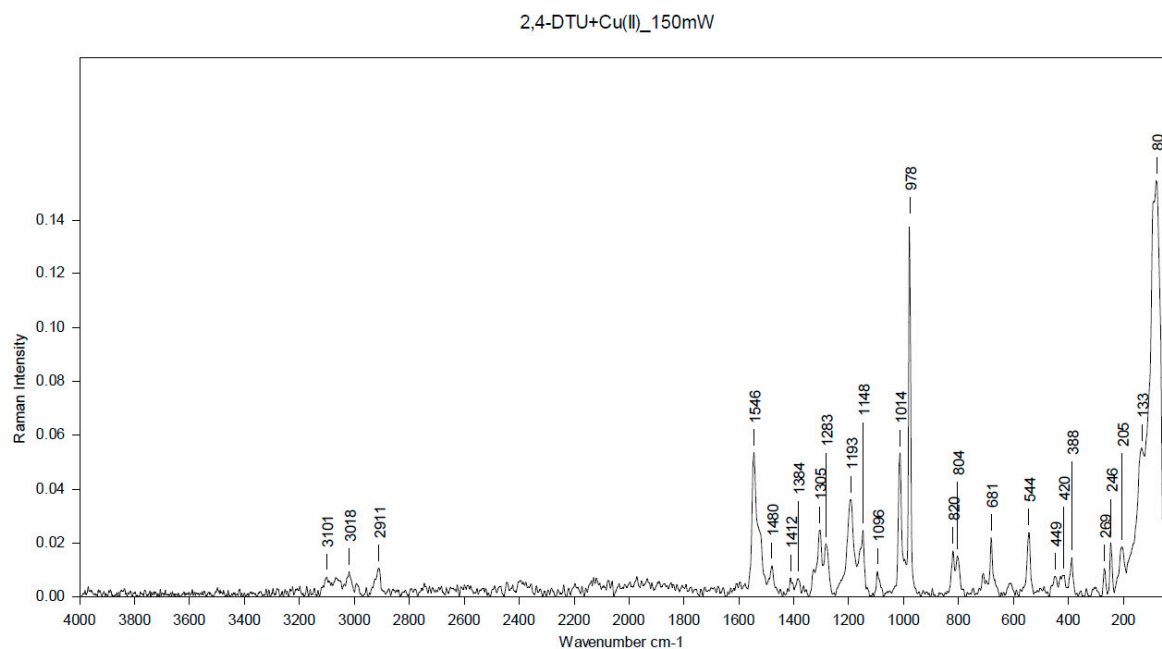


Figure S14 Raman of the Cu complex

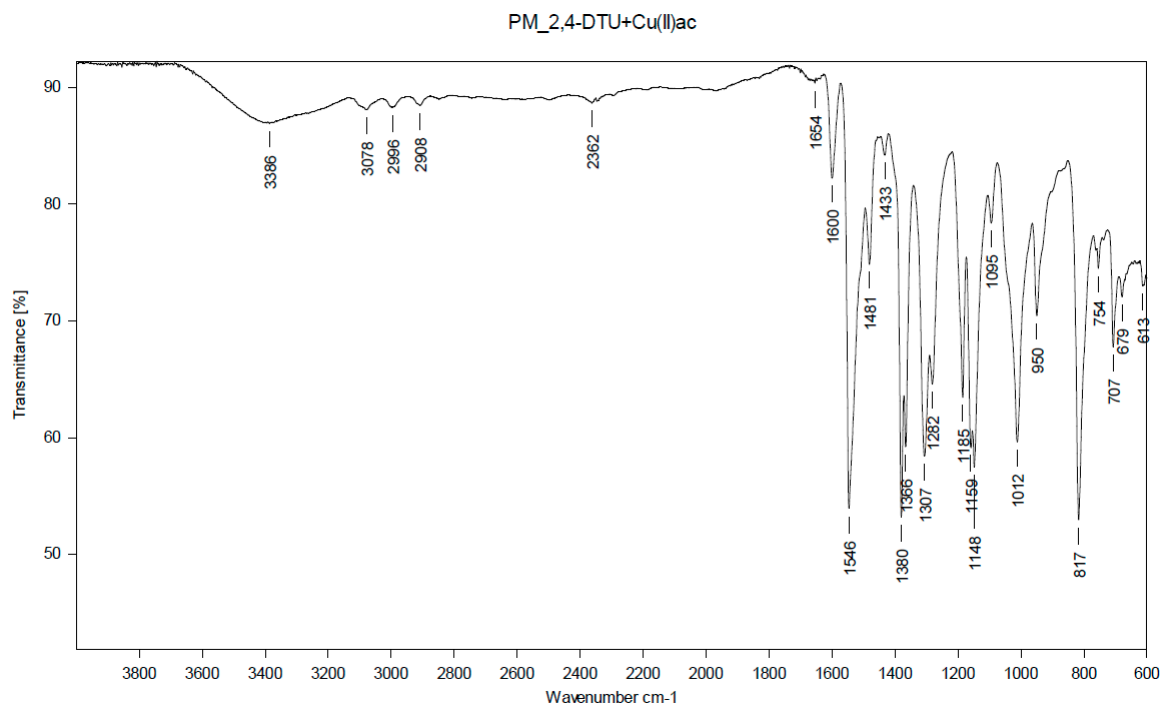


Figure S15 ATR of the Cu complex

4. NMR solid state spectra of the complexes

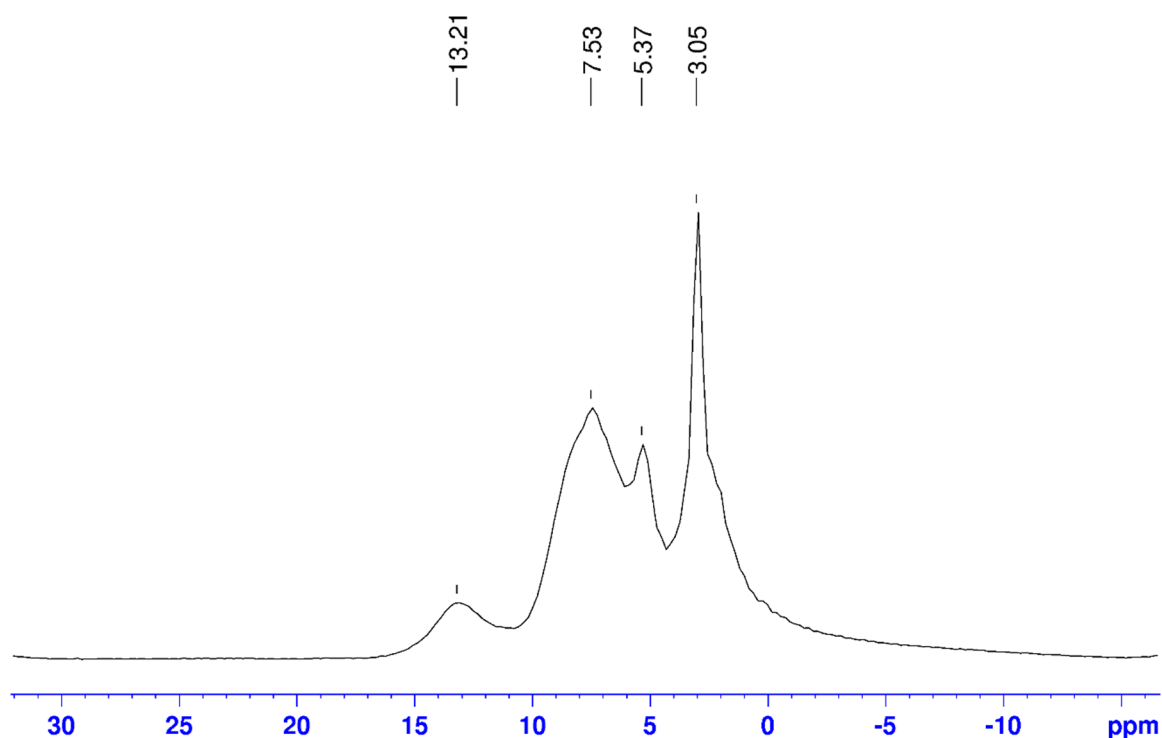


Figure S16 ^1H solid state NMR of Au complex

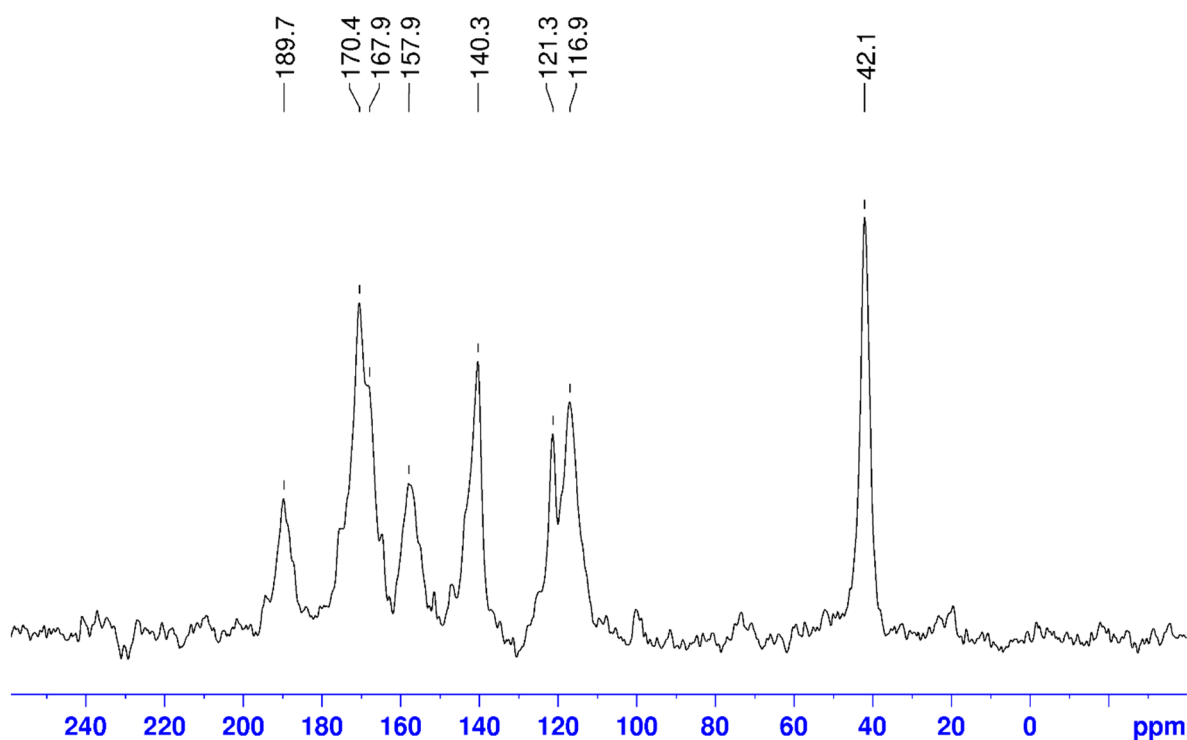


Figure S17 ^{13}C CP MAS NMR of Au complex

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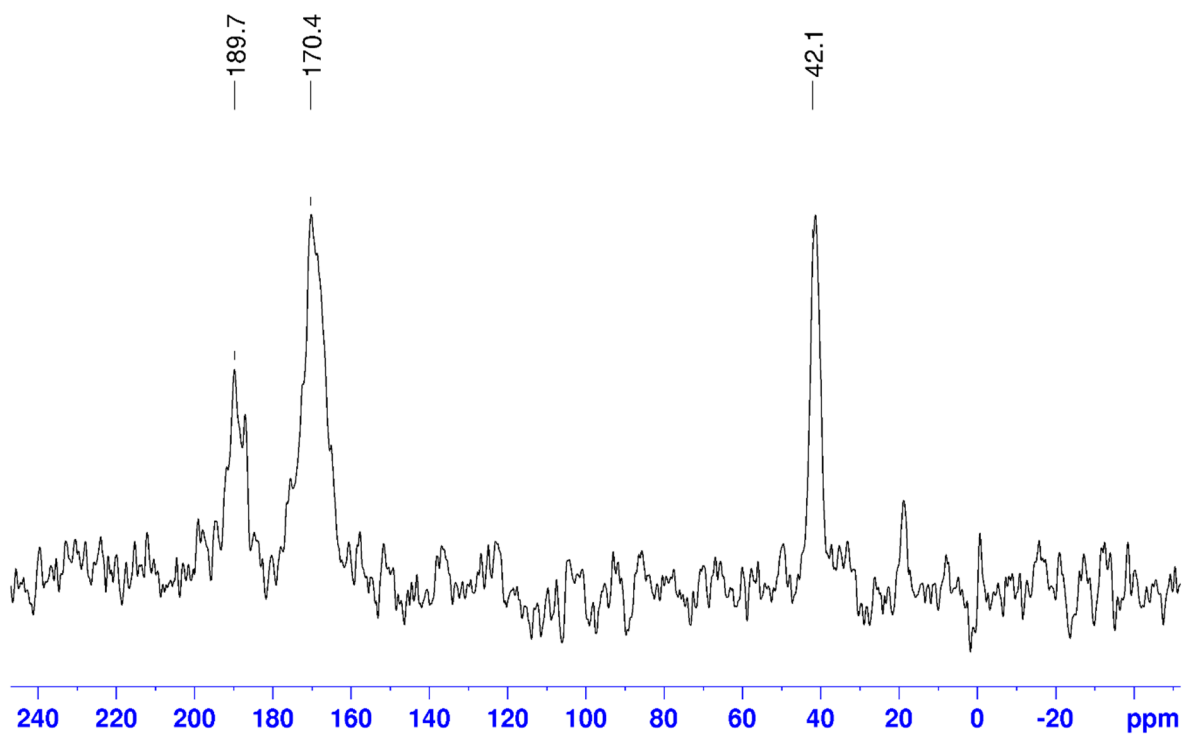


Figure S18 ^{13}C CPPI MAS NMR of Au complex

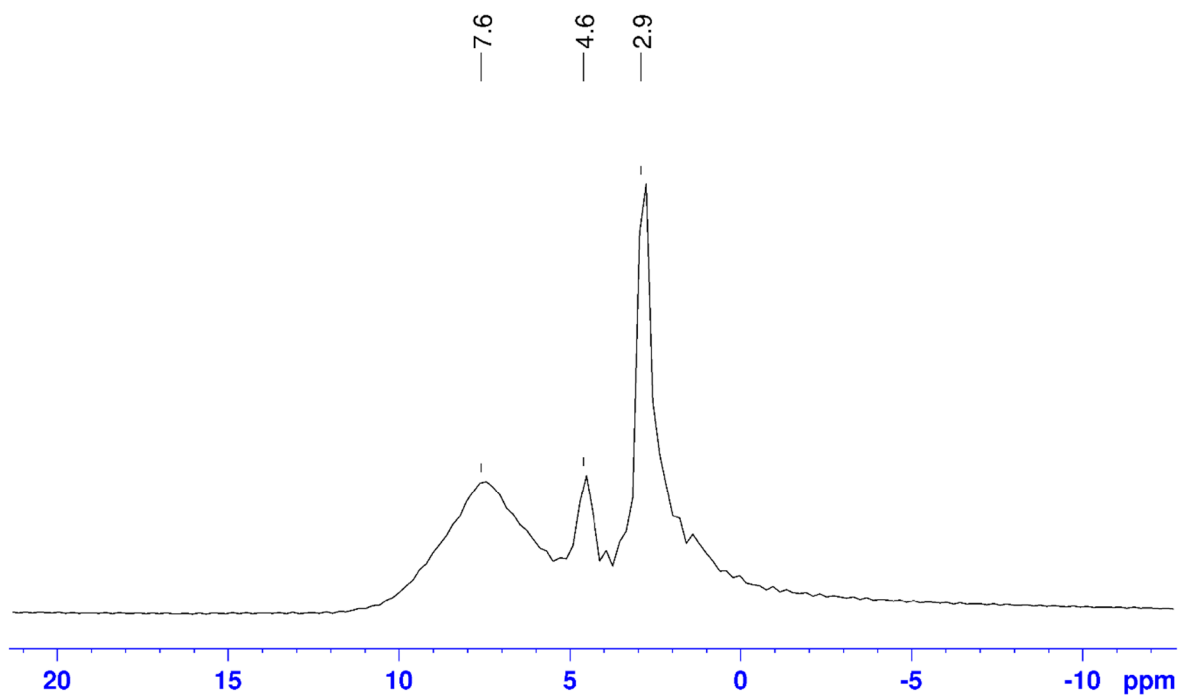


Figure S19 ^1H solid state NMR of Cu complex

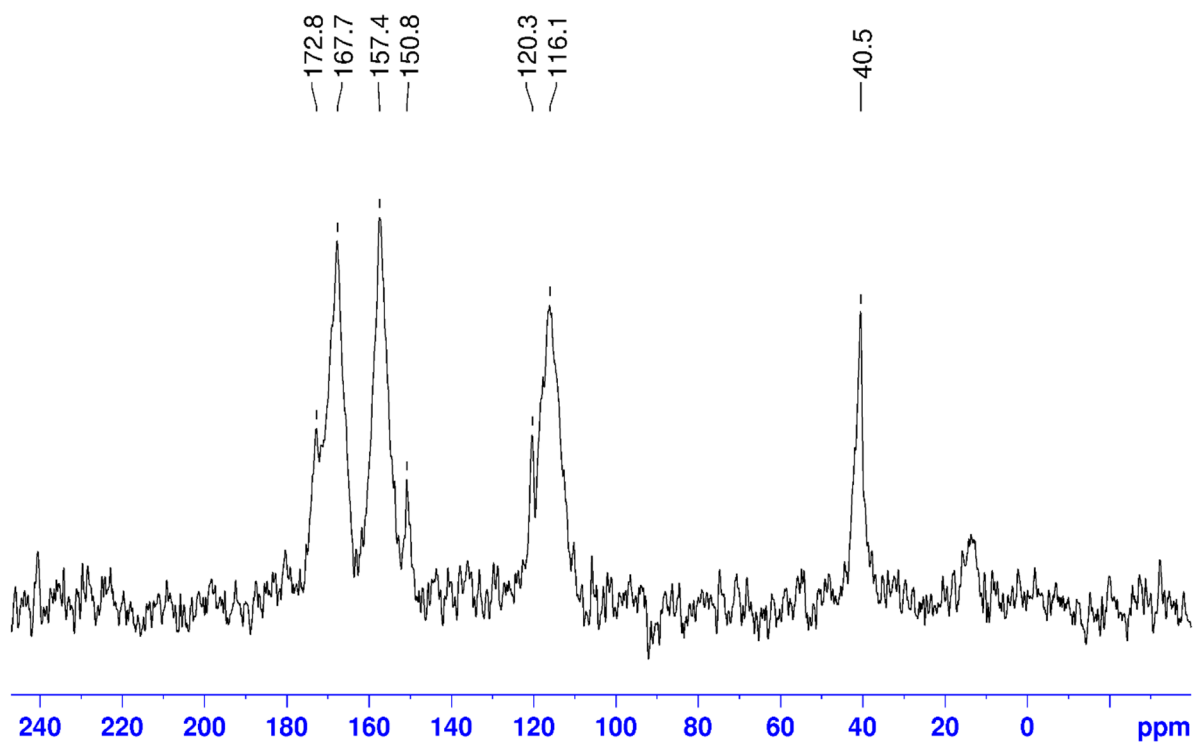


Figure S20 ^{13}C CP MAS NMR of Cu complex

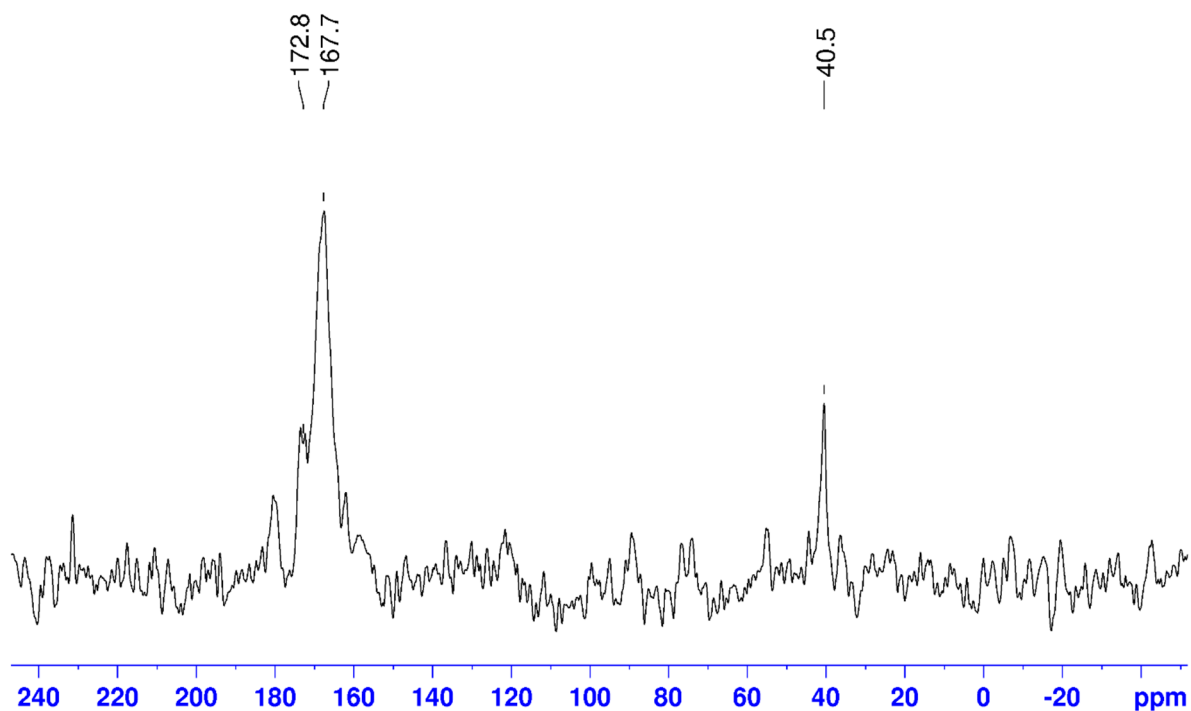


Figure S21 ^{13}C CPPI MAS NMR of Cu complex