

In vitro and *in vivo* evaluation of organometallic gold (I) derivatives as anticancer agents.

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Supporting information

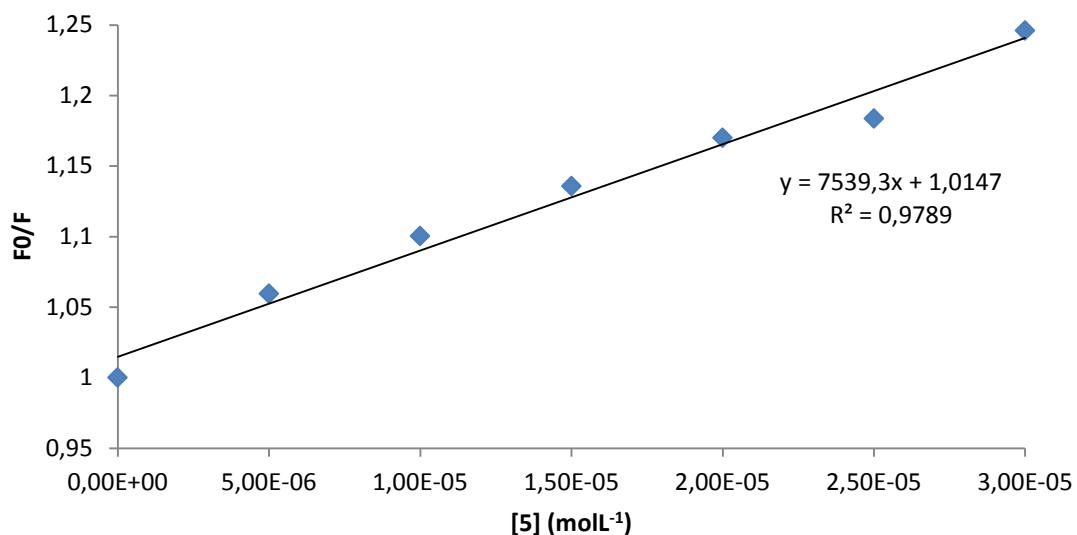


Figure S1. Stern-Volmer plot for the quenching of BSA with complex 5. Stern-Volmer equation used: $F_0/F = 1 + K_{sv}[5]$.

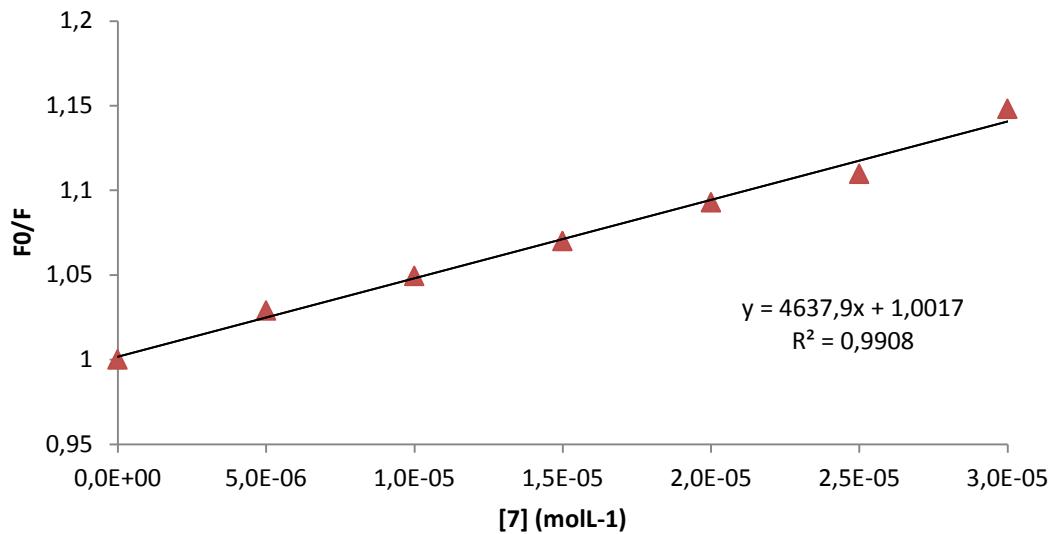


Figure S2. Stern-Volmer plot for the quenching of BSA with complex **7**.

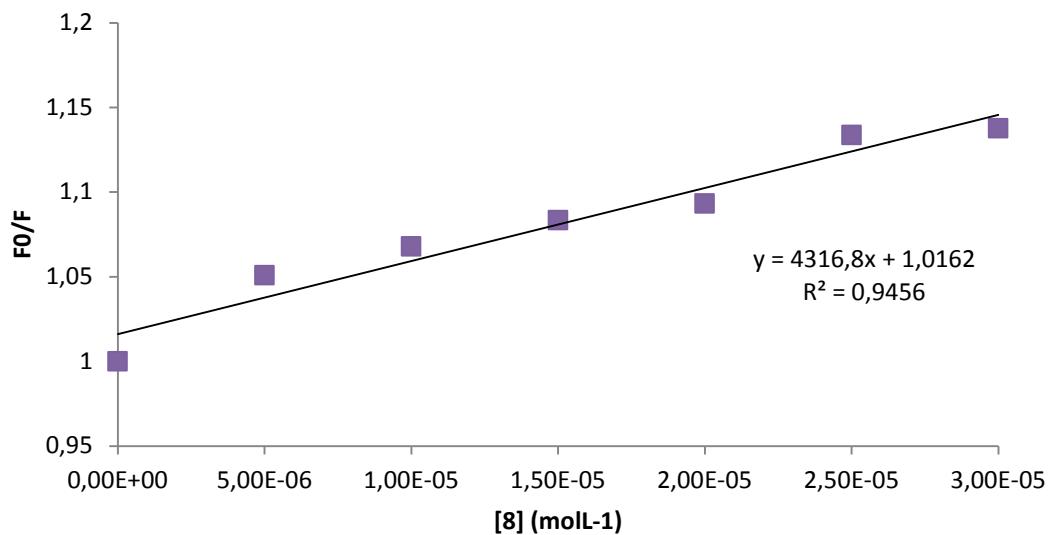


Figure S3. Stern-Volmer plot for the quenching of BSA with complex **8**.

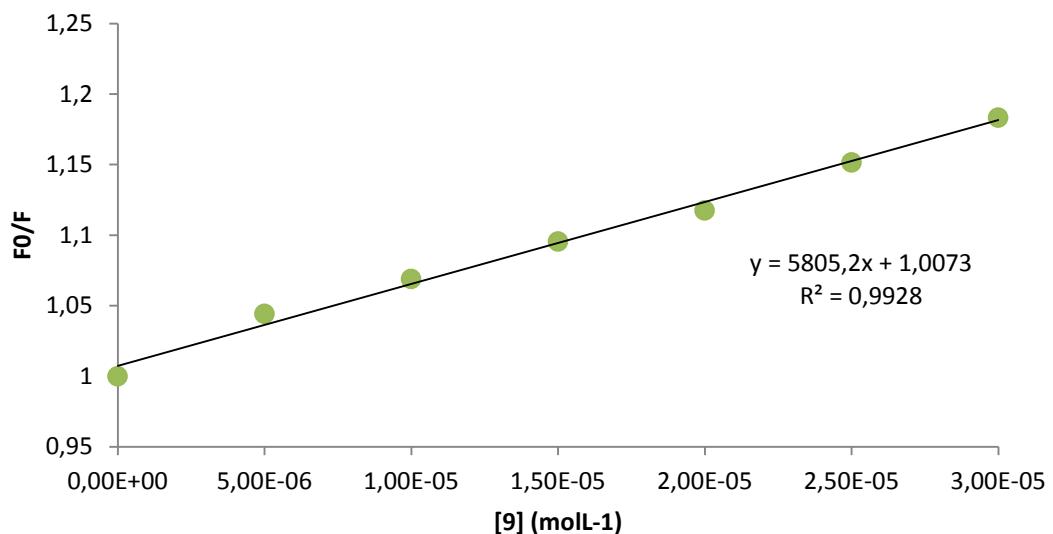


Figure S4. Stern-Volmer plot for the quenching of BSA with complex **9**.

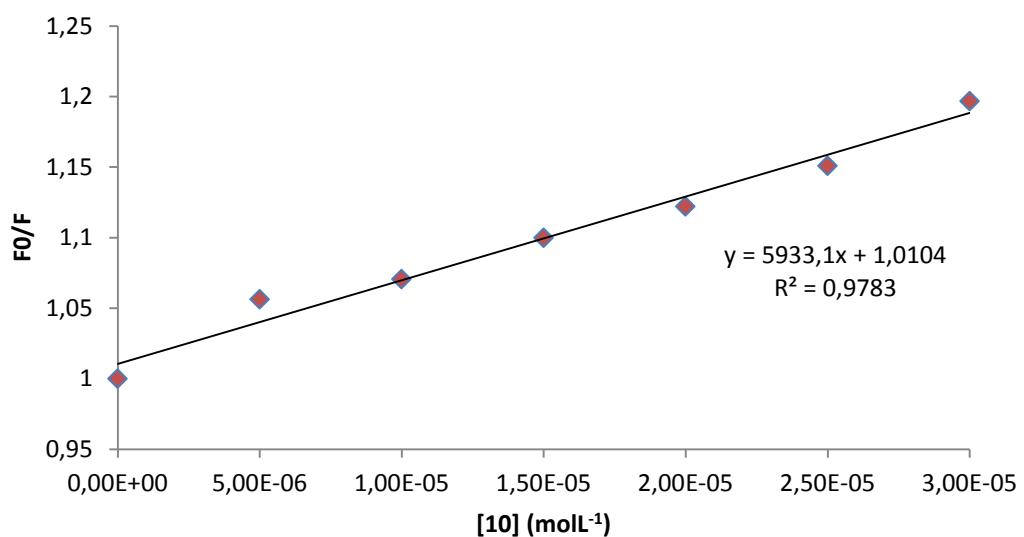


Figure S5. Stern-Volmer plot for the quenching of BSA with complex **10**.

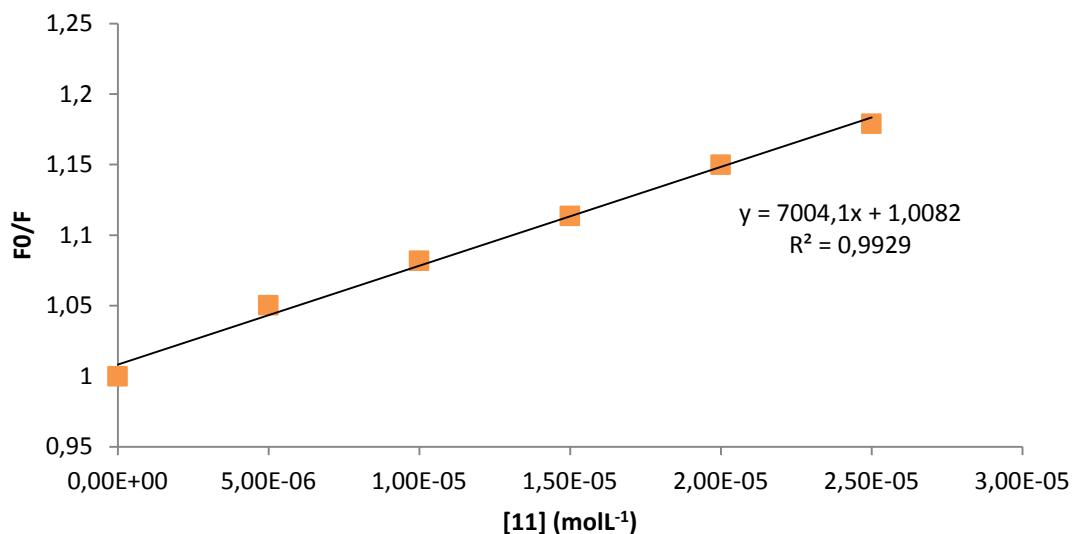


Figure S6. Stern-Volmer plot for the quenching of BSA with complex **11**.

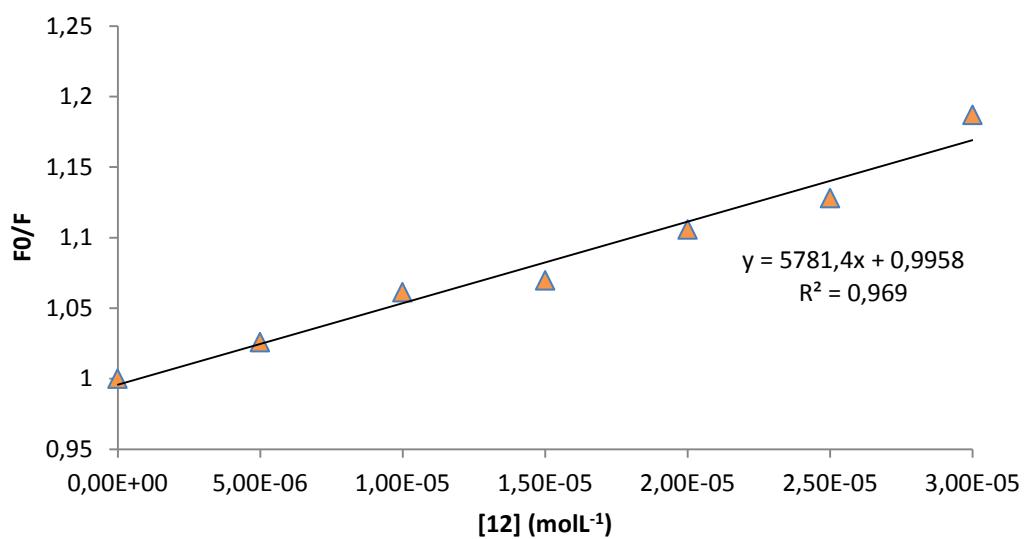


Figure S7. Stern-Volmer plot for the quenching of BSA with complex **12**.

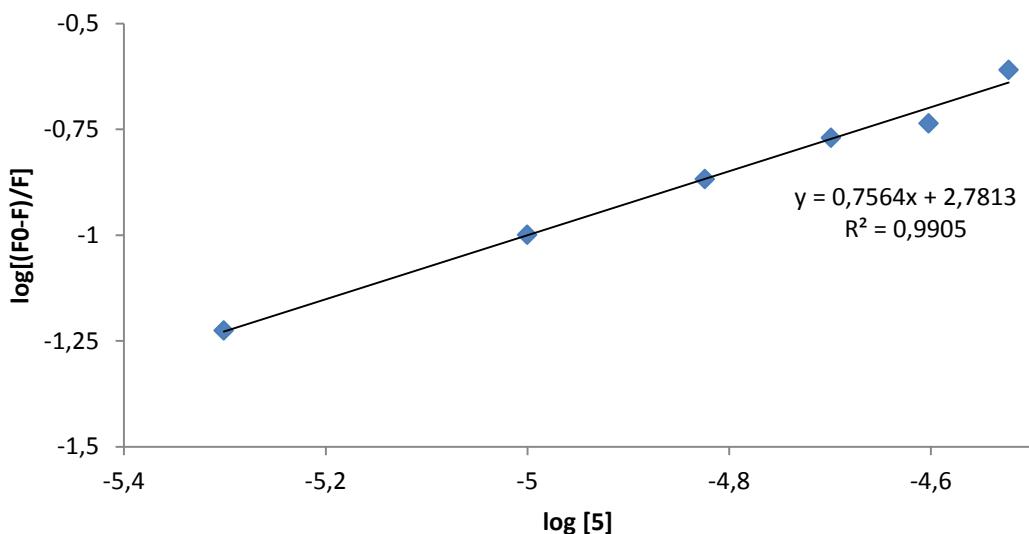


Figure S8. Stern-Volmer equation used: $\log \{ (F_0 - F) / F \} = \log K_b + n \log [5]$. The intercept of the best fit linear trend provides the Stern-Volmer quenching constant K_b .

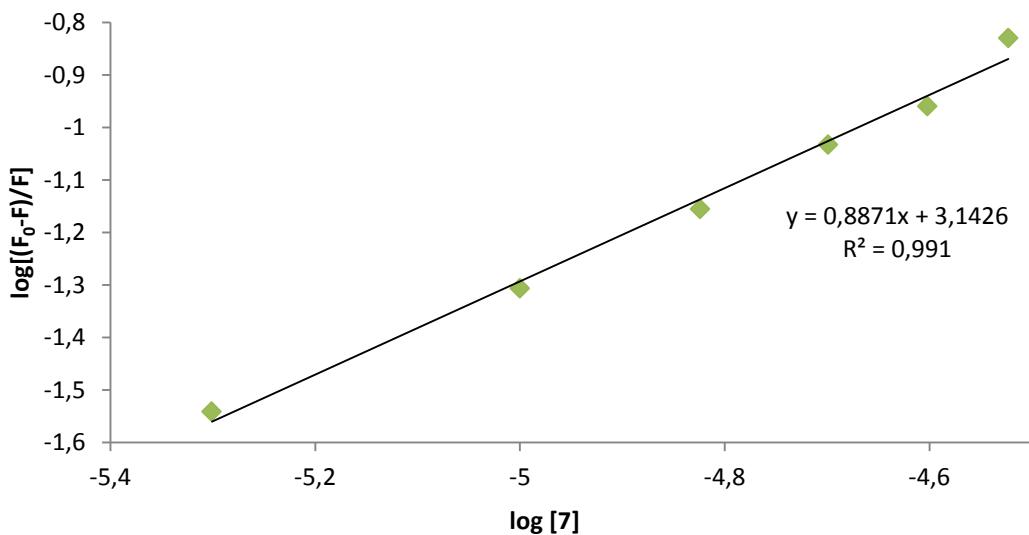


Figure S9. Stern-Volmer plot for the quenching of BSA with complex 7. Stern-Volmer equation used: $\log \{ (F_0 - F) / F \} = \log K_b + n \log [7]$.

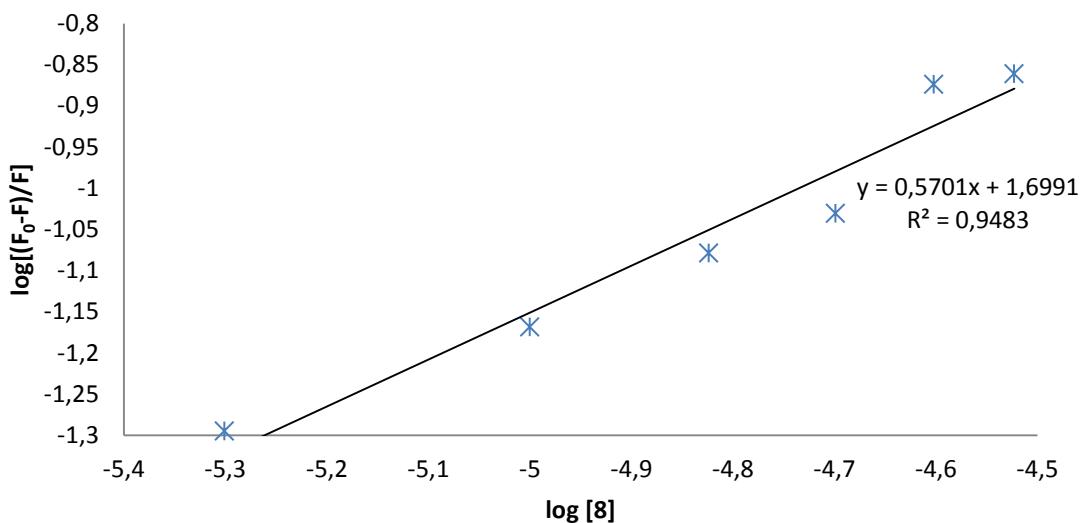


Figure S10. Stern-Volmer plot for the quenching of BSA with complex **8**. Stern-Volmer equation used: $\log\{(F_0-F)/F\} = \log K_b + n \log [8]$.

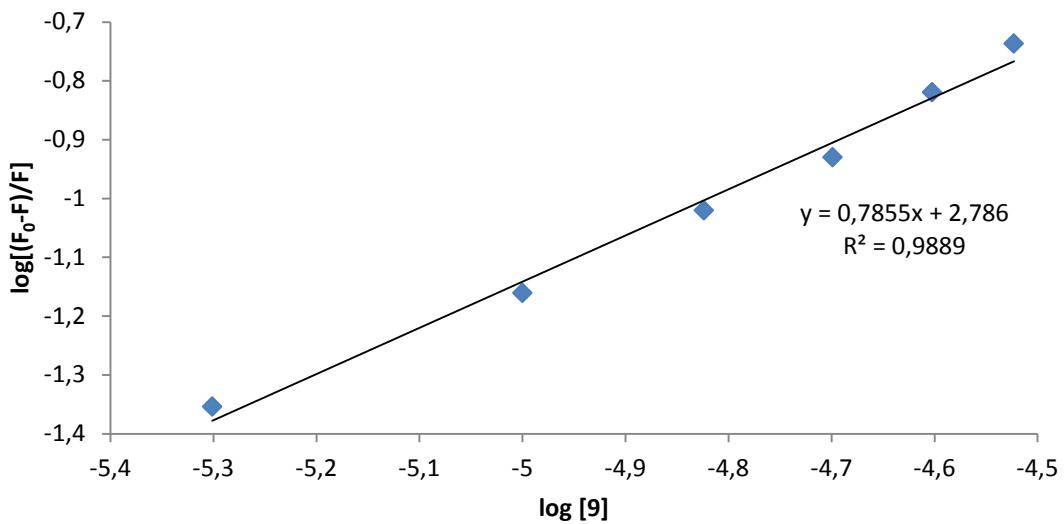


Figure S11. Stern-Volmer plot for the quenching of BSA with complex **9**. Stern-Volmer equation used: $\log\{(F_0-F)/F\} = \log K_b + n \log [9]$.

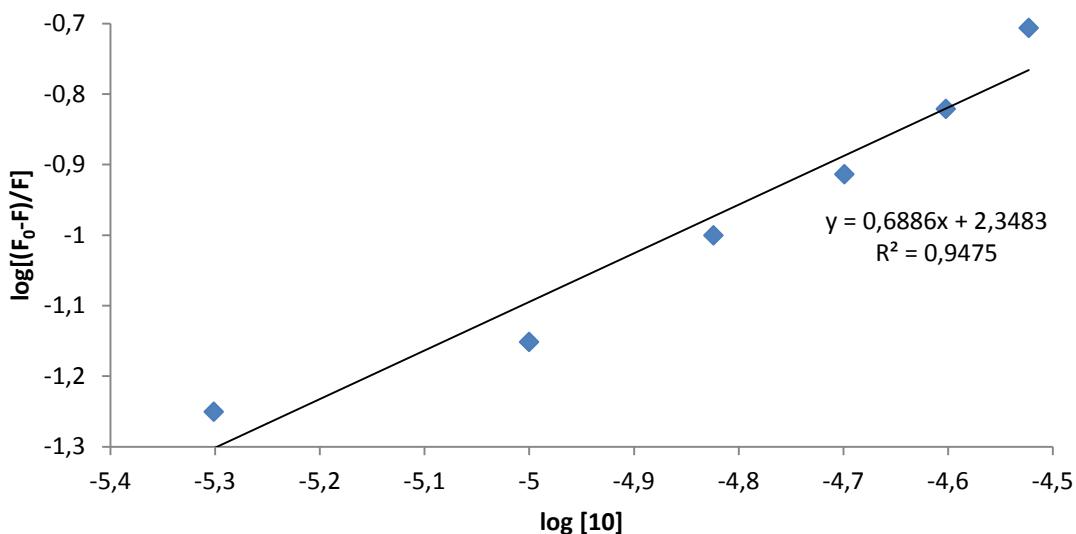


Figure S12. Stern-Volmer plot for the quenching of BSA with complex **10**. Stern-Volmer equation used: $\log\{(F_0-F)/F\} = \log K_b + n \log [10]$.

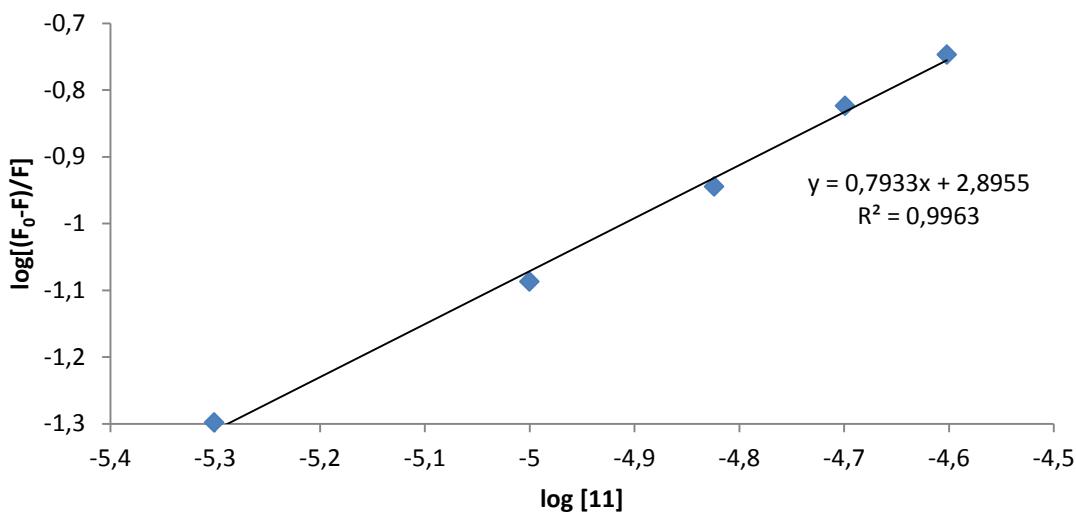


Figure S13. Stern-Volmer plot for the quenching of BSA with complex **11**. Stern-Volmer equation used: $\log\{(F_0-F)/F\} = \log K_b + n \log [11]$.

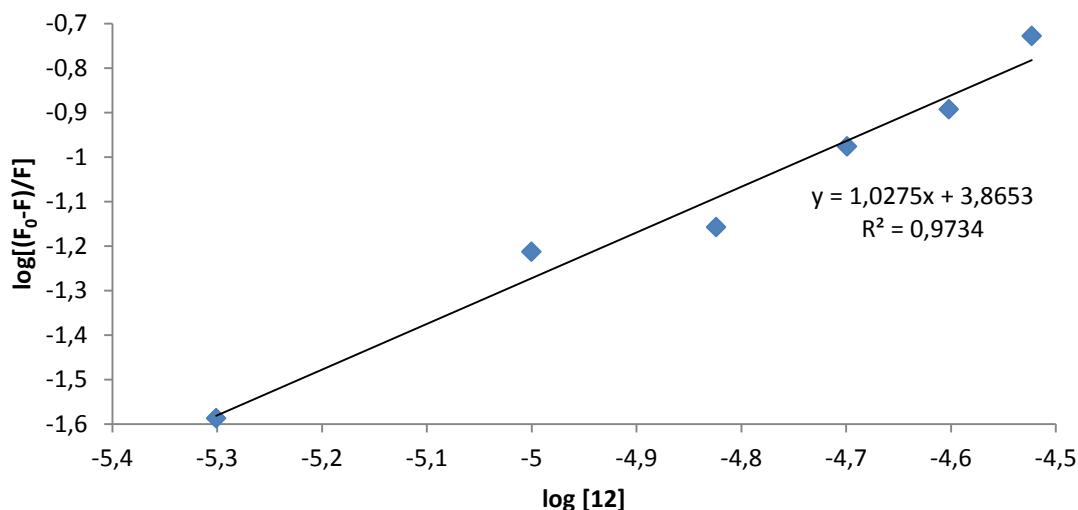


Figure S14. Stern-Volmer plot for the quenching of BSA with complex **12**. Stern-Volmer equation used: $\log \{ (F_0 - F) / F \} = \log K_b + n \log [12]$.

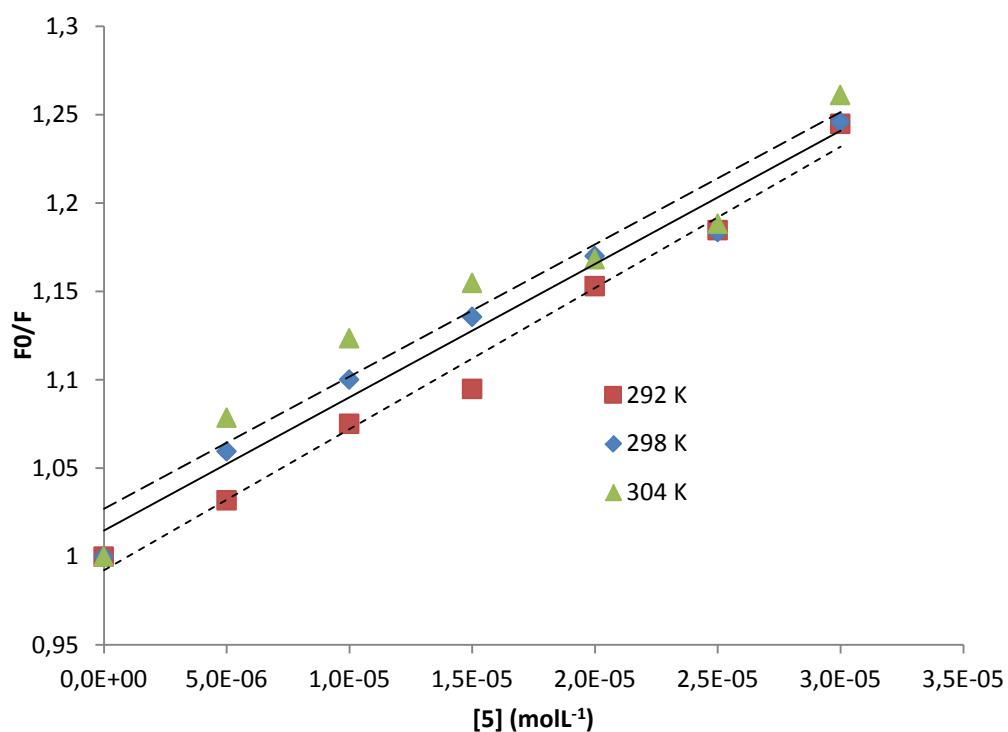


Figure S15. Stern-Volmer plot for the quenching of BSA with complex **5** at different temperatures. Stern-Volmer equation used: $F_0 / F = 1 + K_{sv} [5]$.

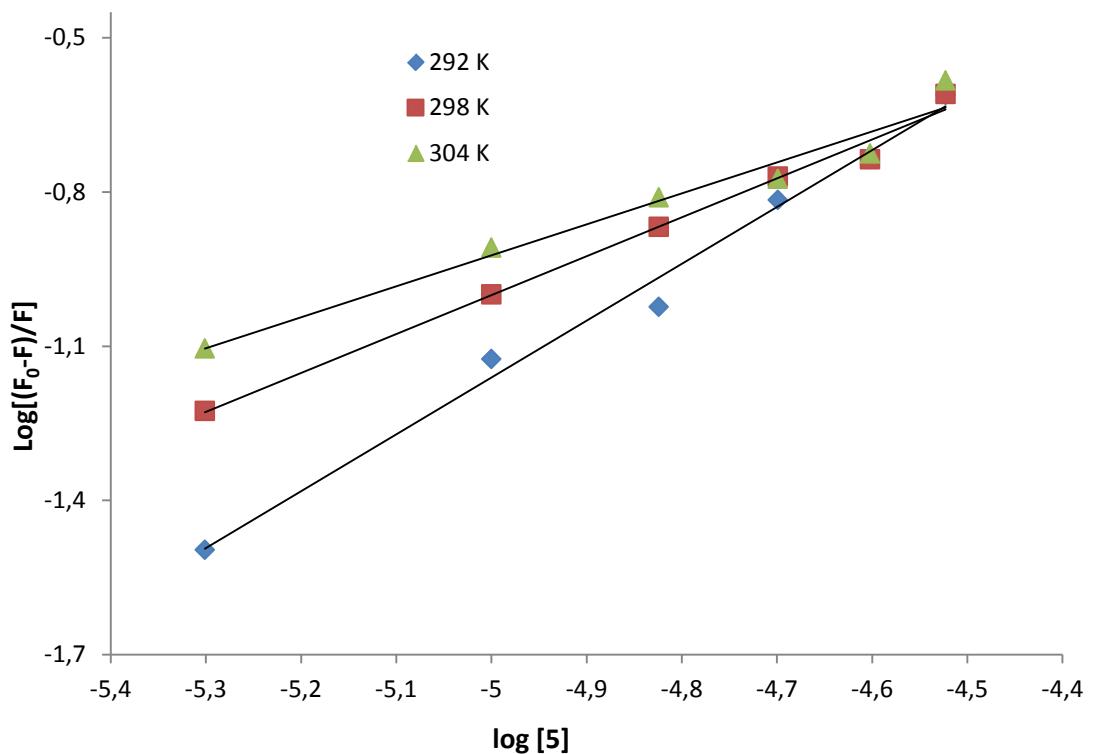


Figure S16. Plot of $\log\{(F_0-F)/F\}$ versus $\log [5]$ at different temperatures.

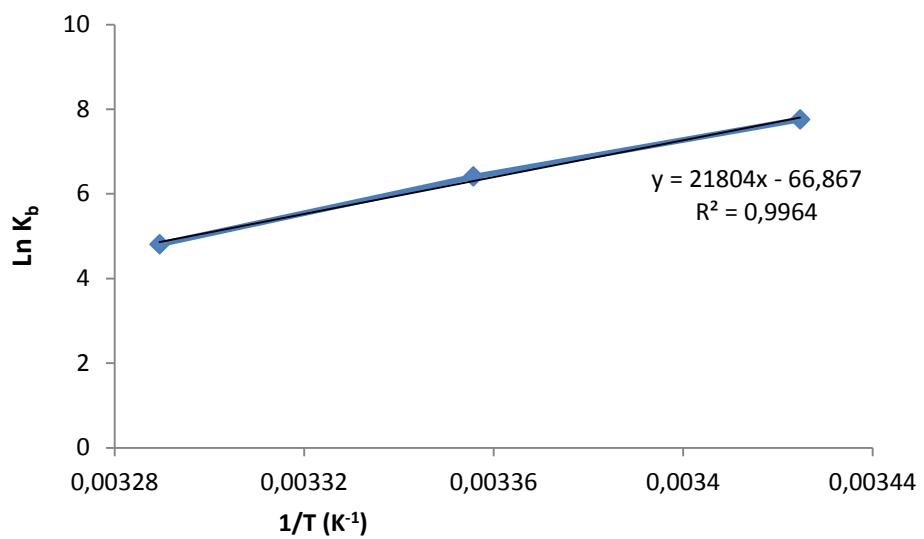


Figure S17. Plot of $\ln K_b$ of complex **5** versus $1/T$

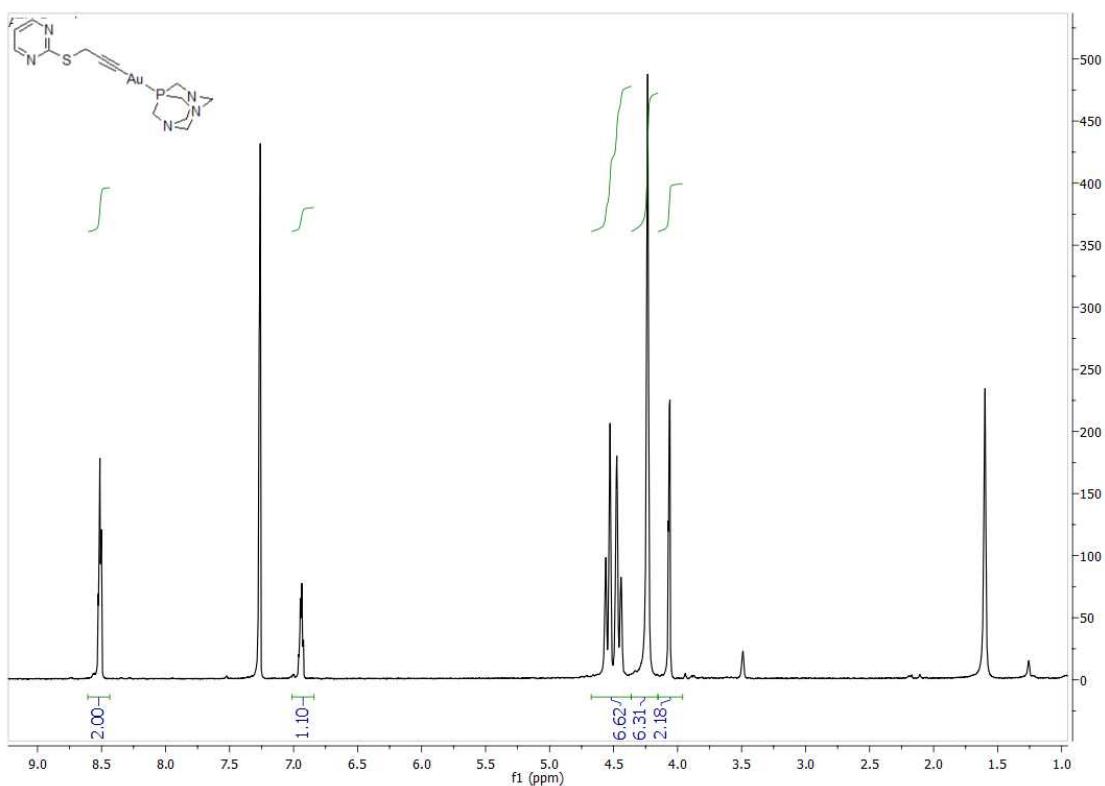


Figure S18. ^1H NMR of compound 7

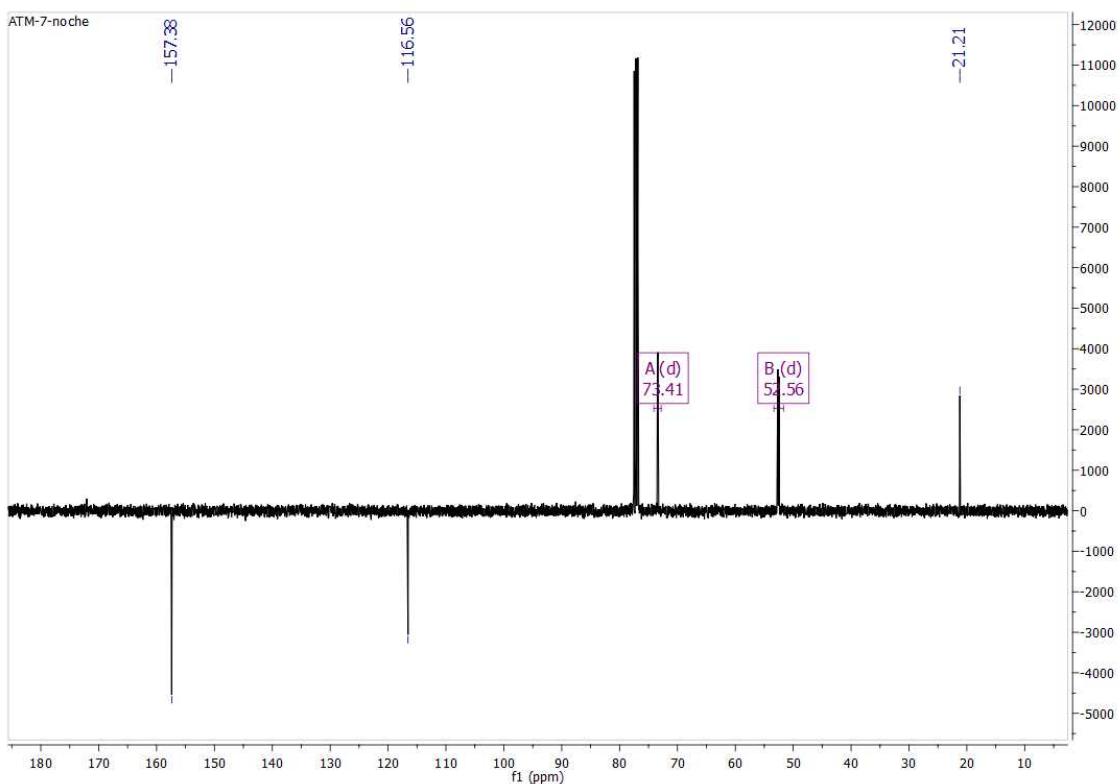


Figure S19. $^{13}\text{C}\{^1\text{H}\}$ NMR of compound 7

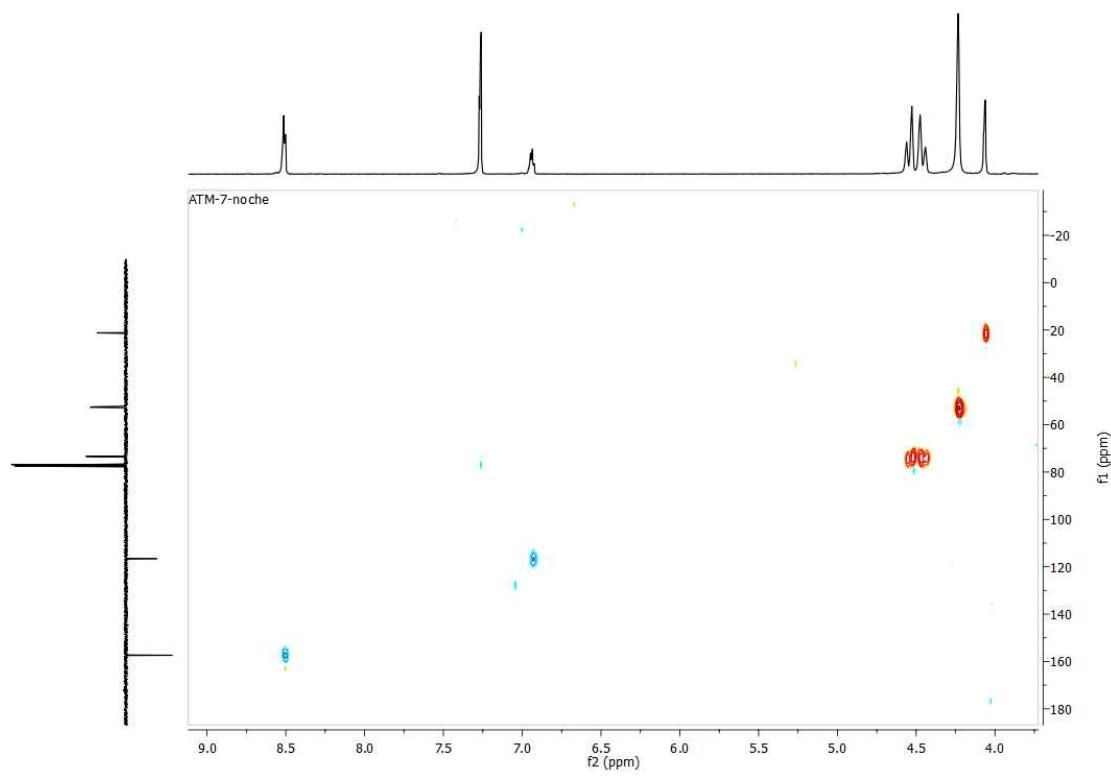


Figure S20. C,H-HSQC NMR of compound 7

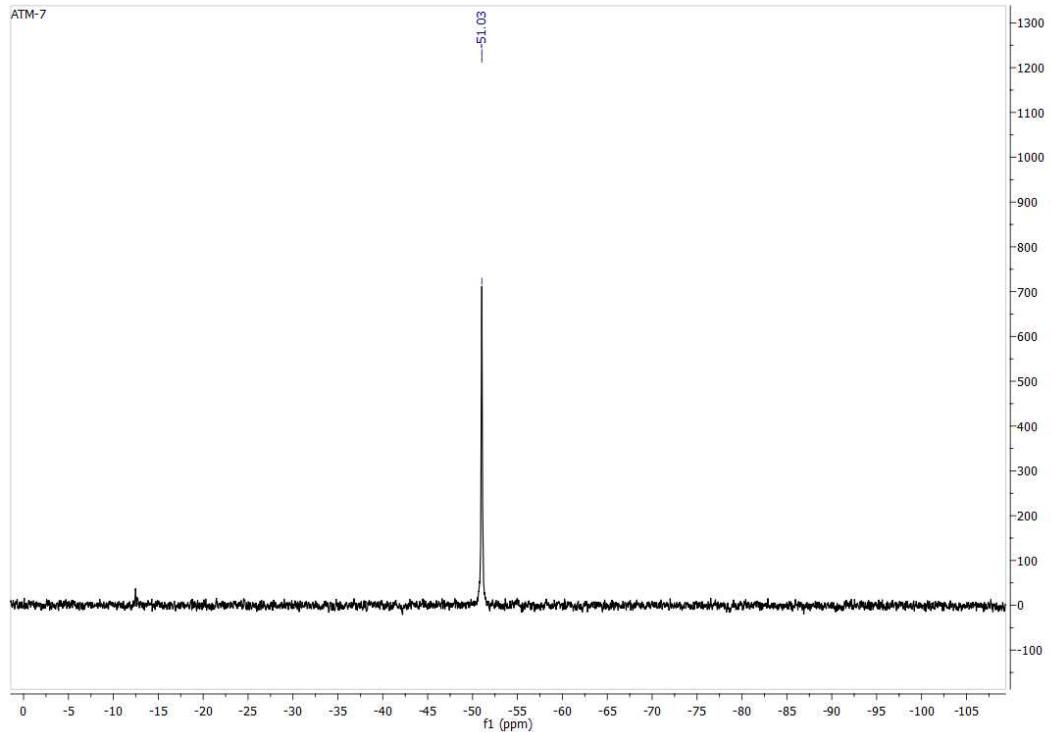


Figure S21. $^{31}\text{P}\{\text{^1H}\}$ NMR of compound 7

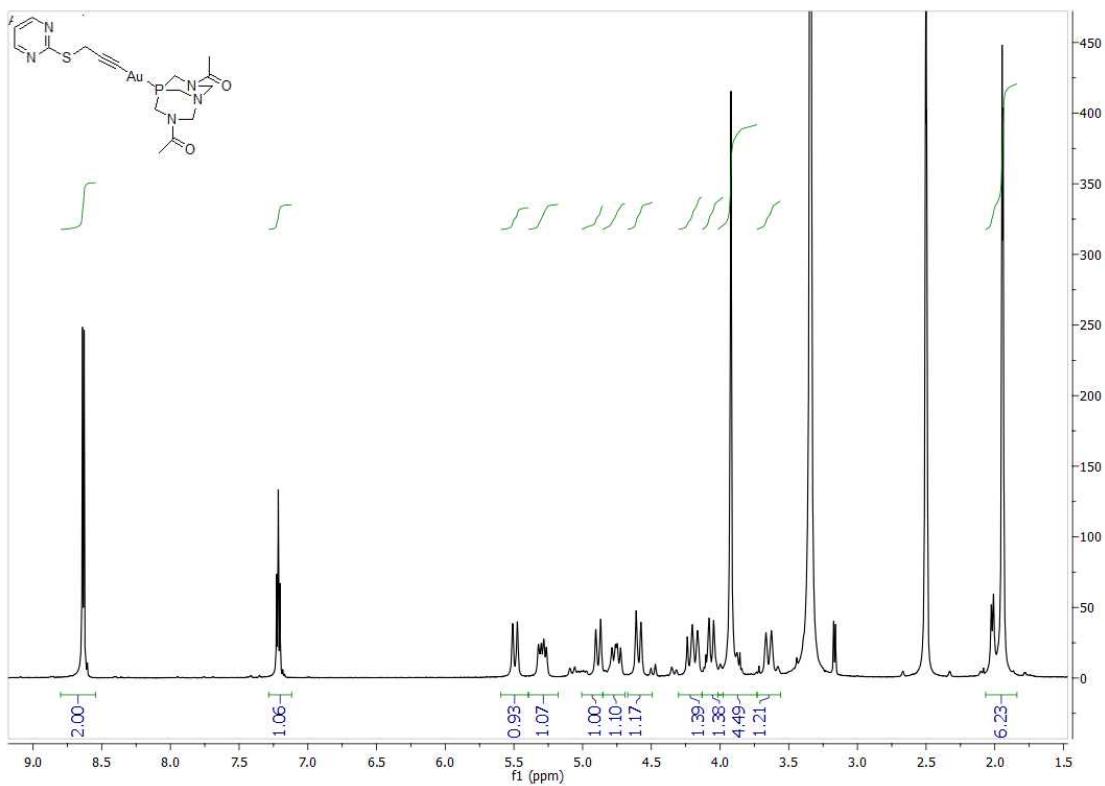


Figure S22. ^1H NMR of compound 8

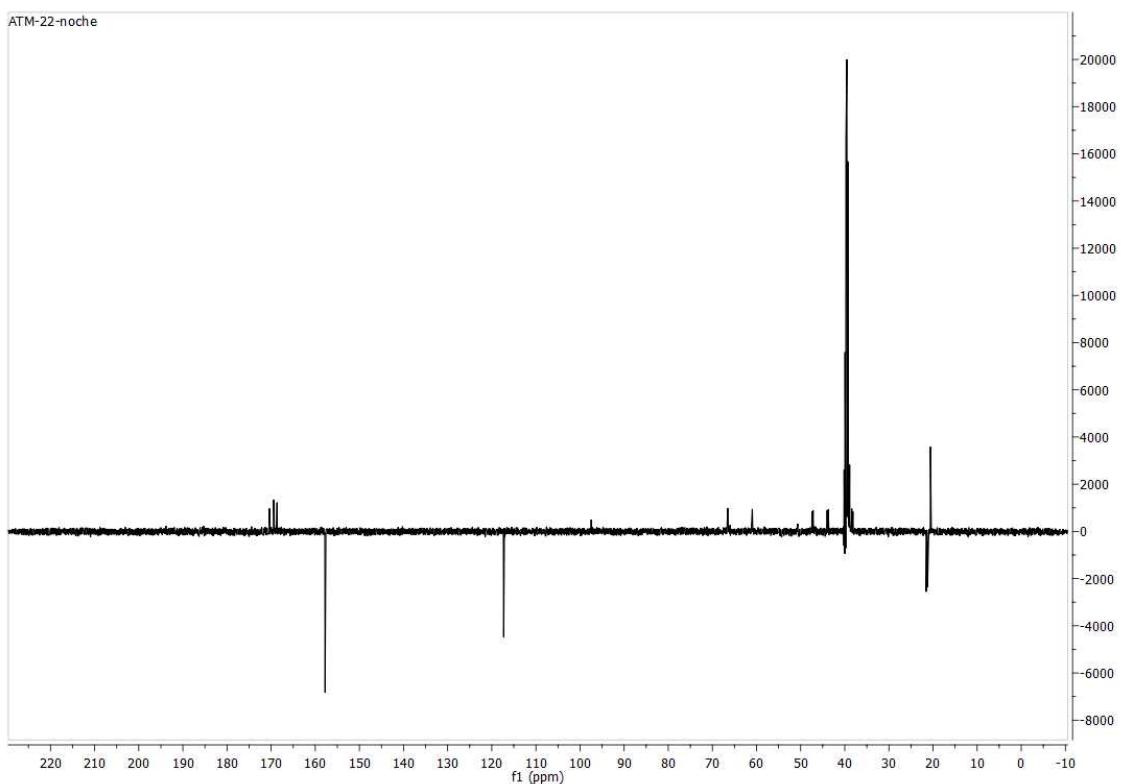


Figure S23. $^{13}\text{C}\{\text{H}\}$ NMR of compound 8

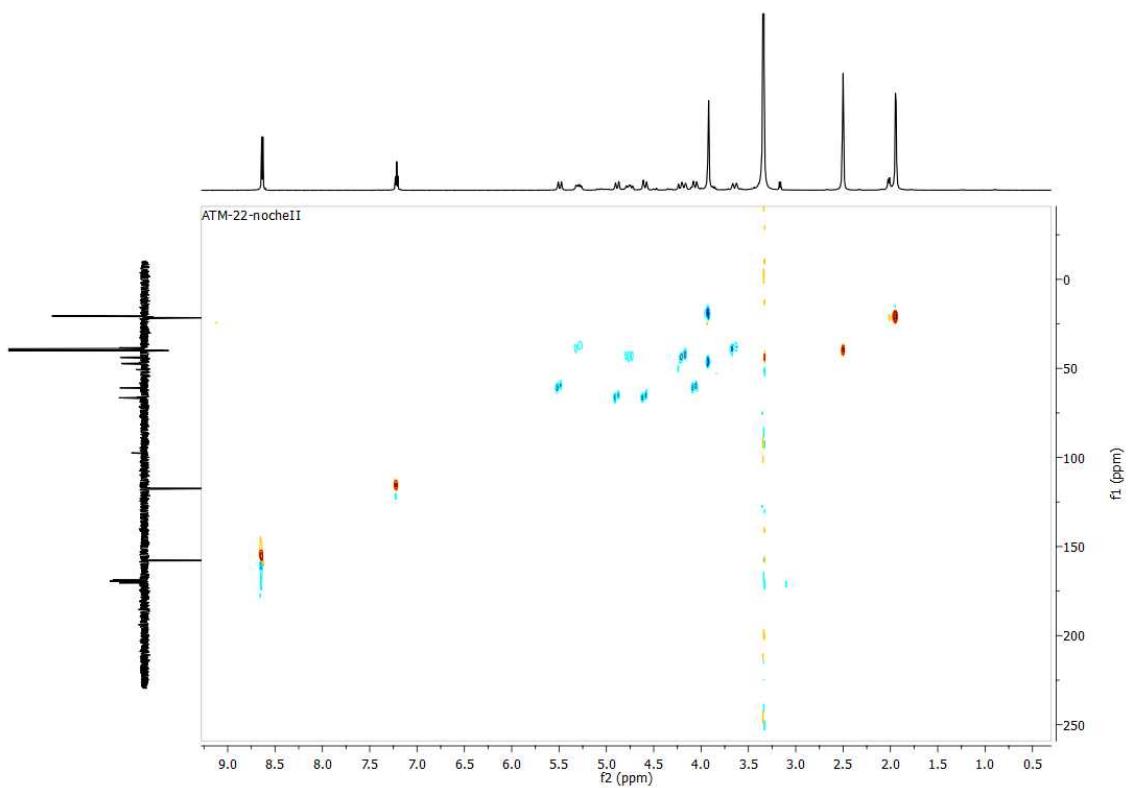


Figure S24. C,H-HSQC NMR of compound 8

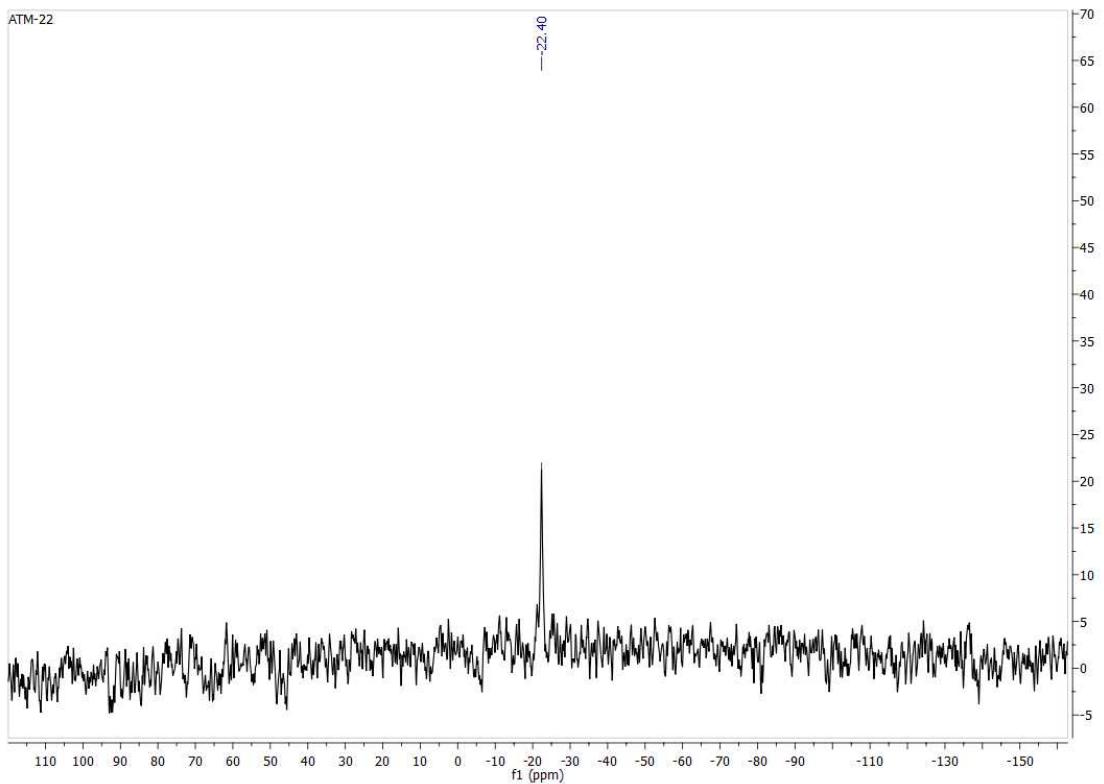


Figure S25. $^{31}\text{P}\{\text{H}\}$ NMR of compound 8

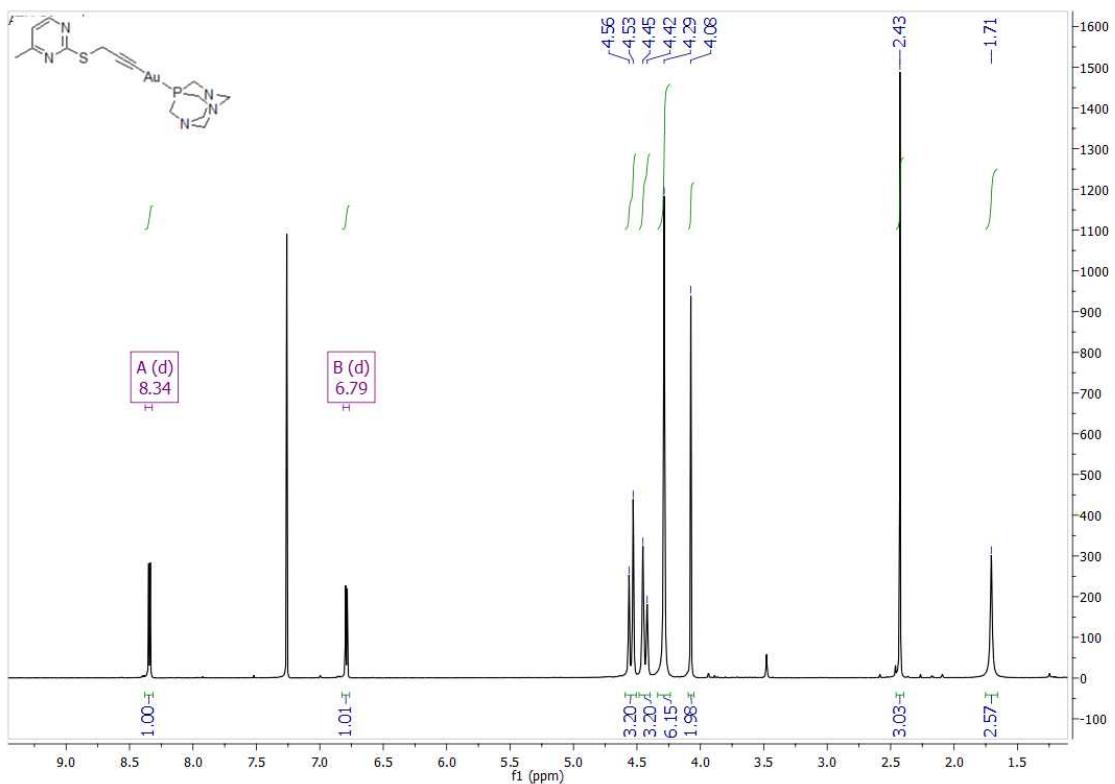


Figure S26. ^1H NMR of compound **9**

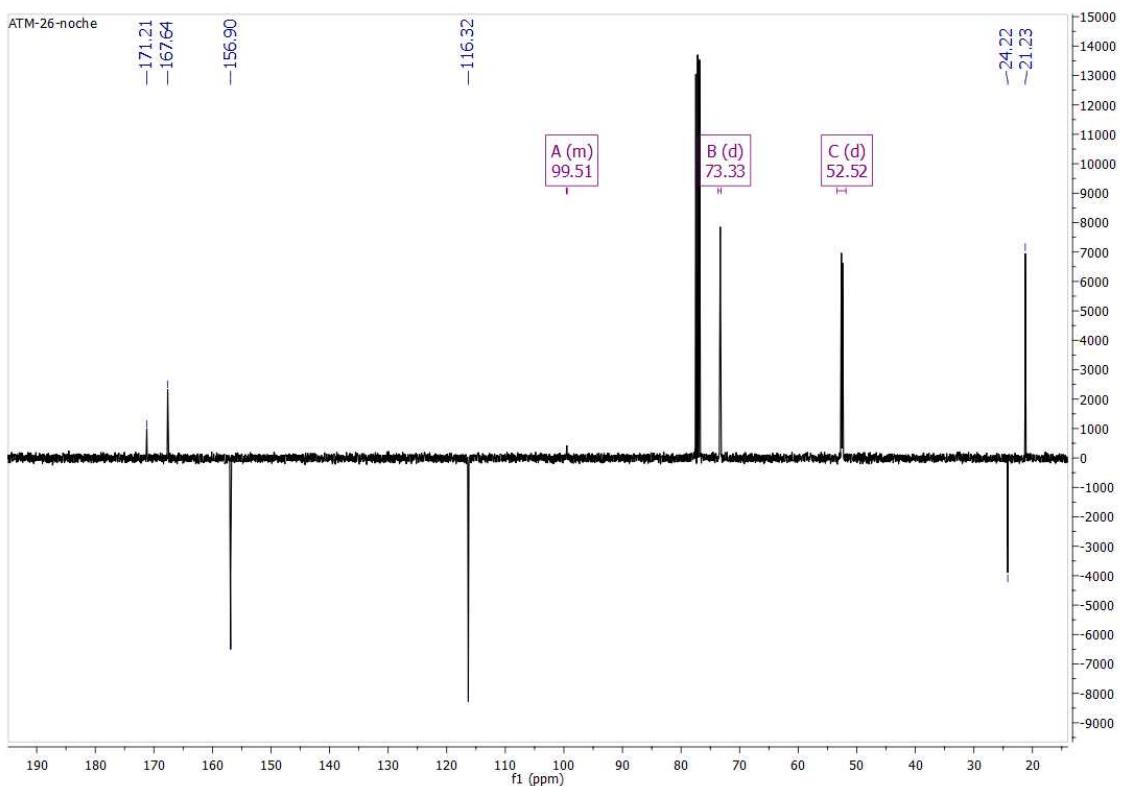


Figure S27. $^{13}\text{C}\{^1\text{H}\}$ NMR of compound **9**

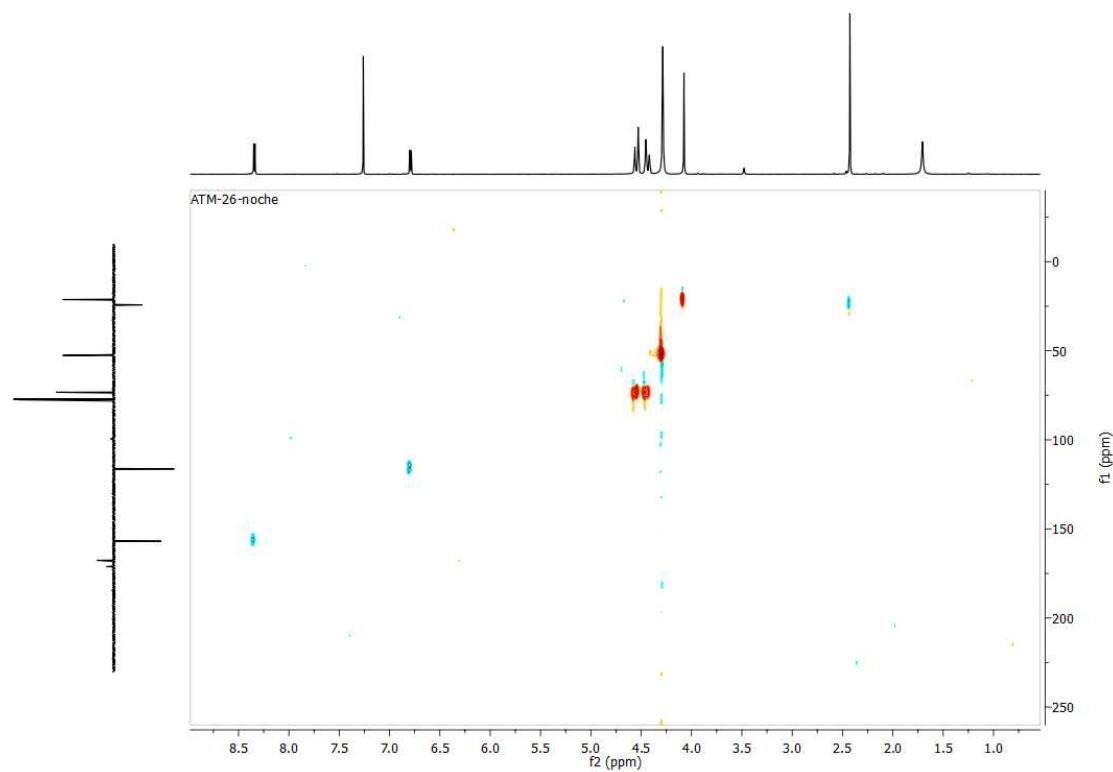


Figure S28. C,H-HSQC NMR of compound **9**

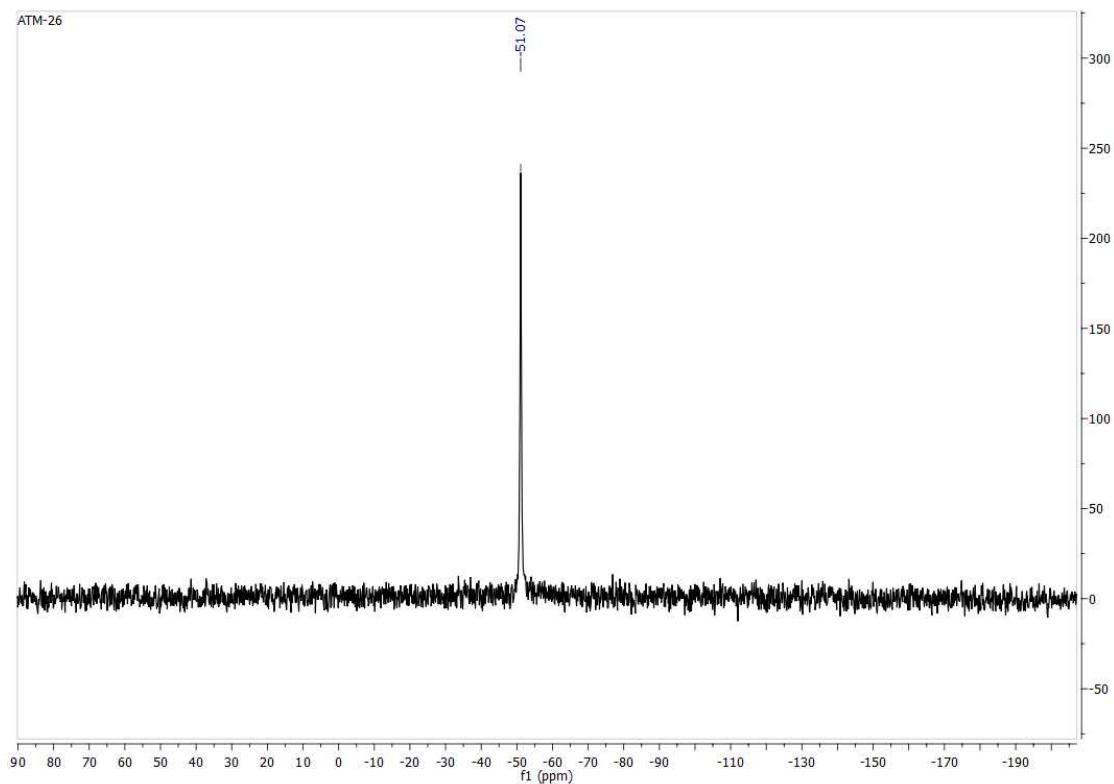


Figure S29. ³¹P{¹H} NMR of compound **9**

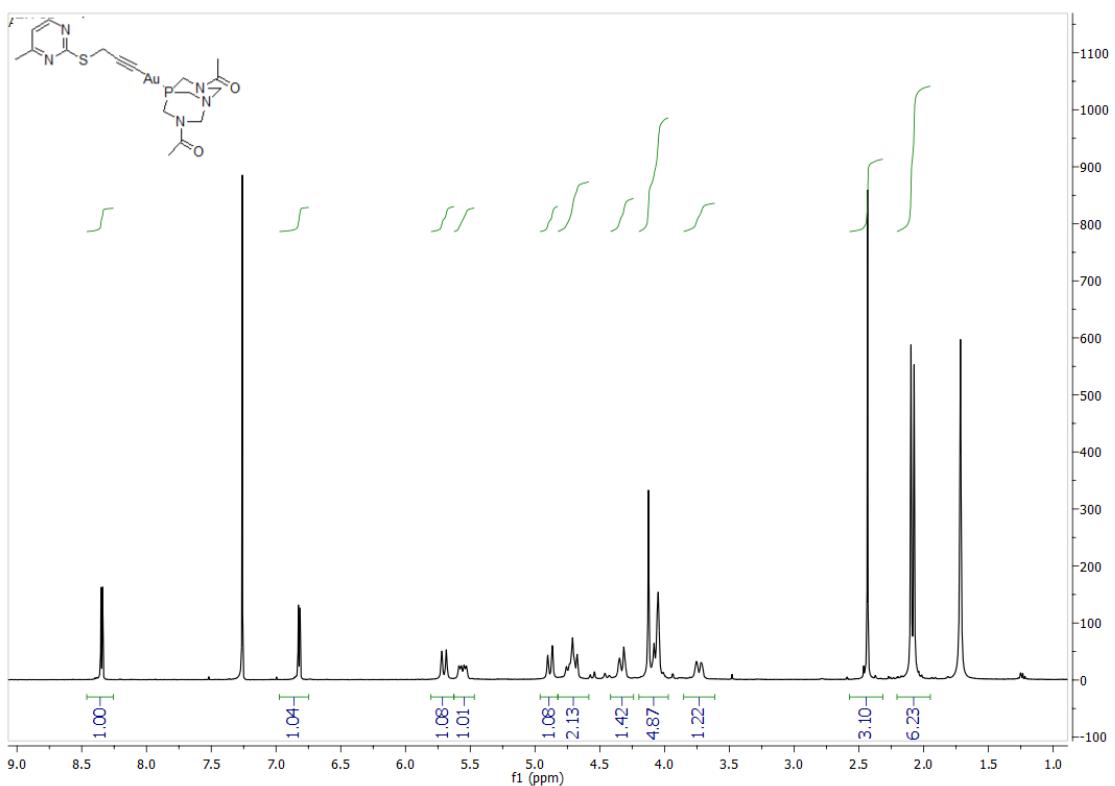


Figure S30. ^1H NMR of compound **10**

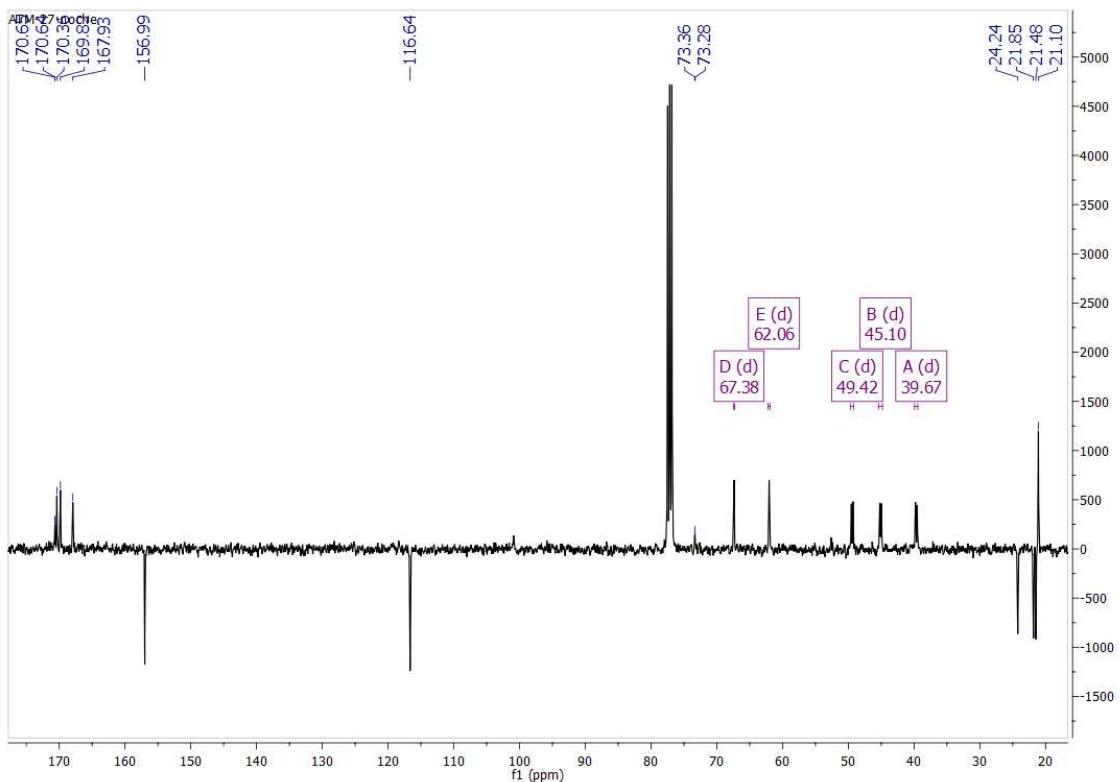


Figure S31. $^{13}\text{C}\{^1\text{H}\}$ NMR of compound **10**

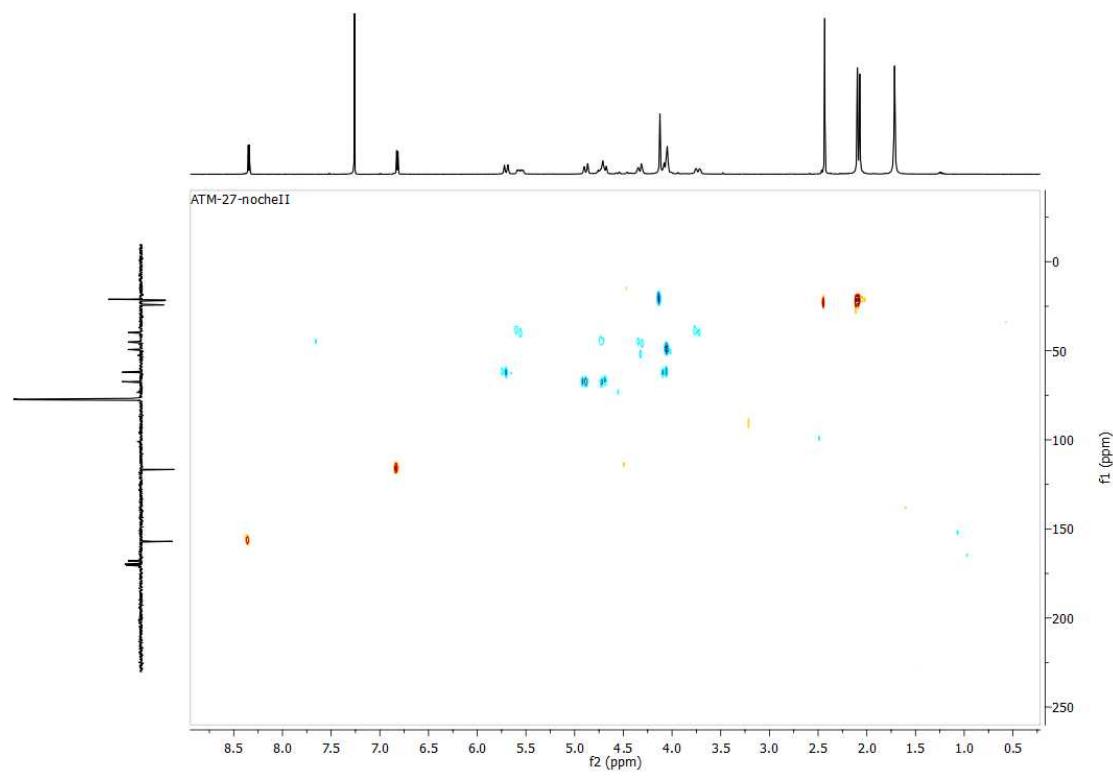


Figure S32. C,H-HSQC NMR of compound **10**

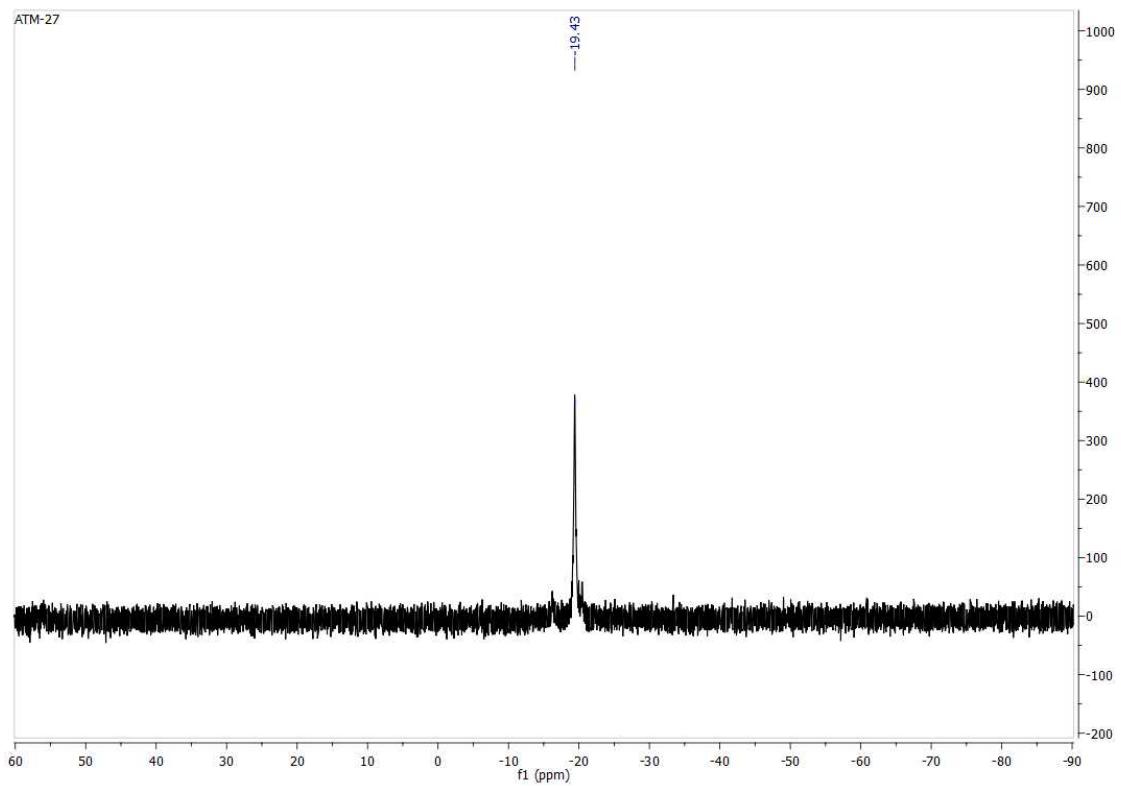


Figure S33. $^{31}\text{P}\{\text{H}\}$ NMR of compound **10**

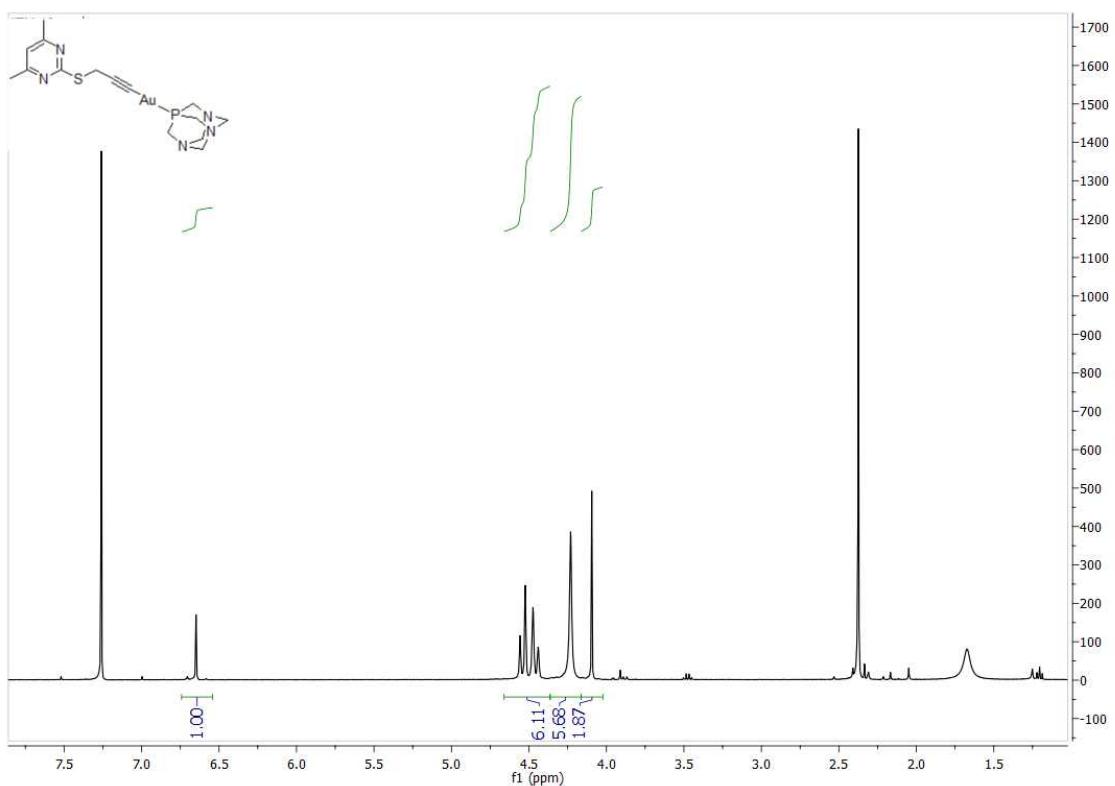


Figure S34. ^1H NMR of compound 11

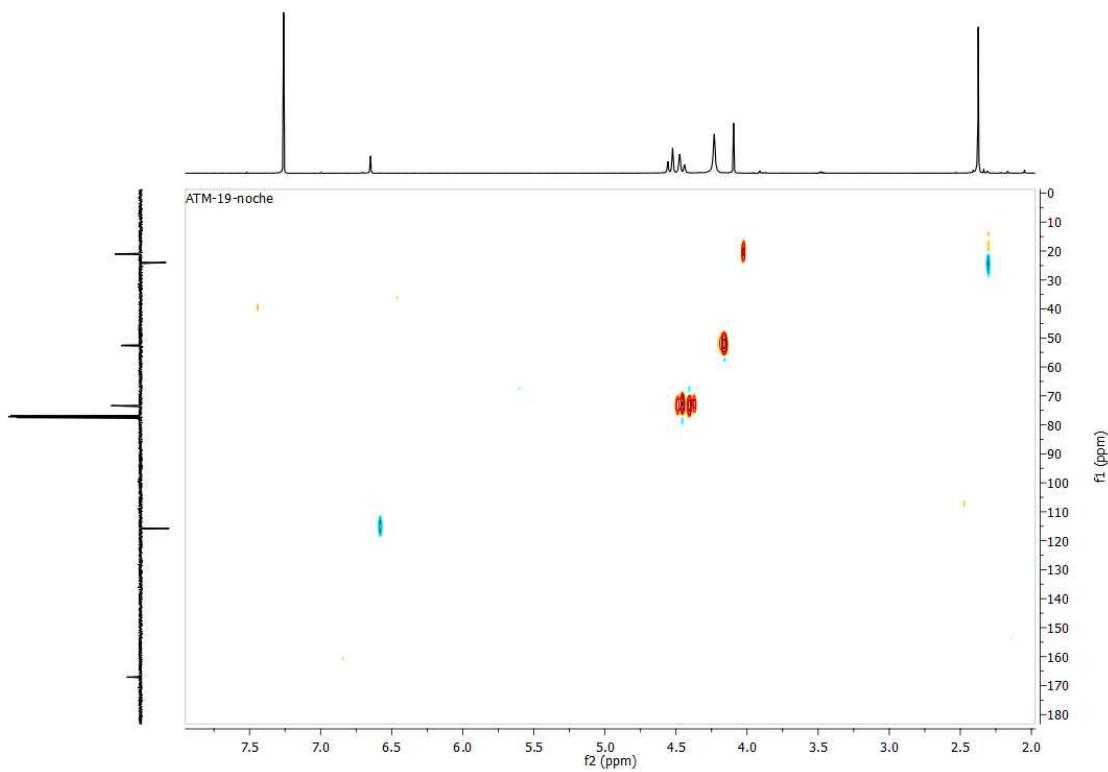


Figure S35. C,H -HSQC NMR of compound 11

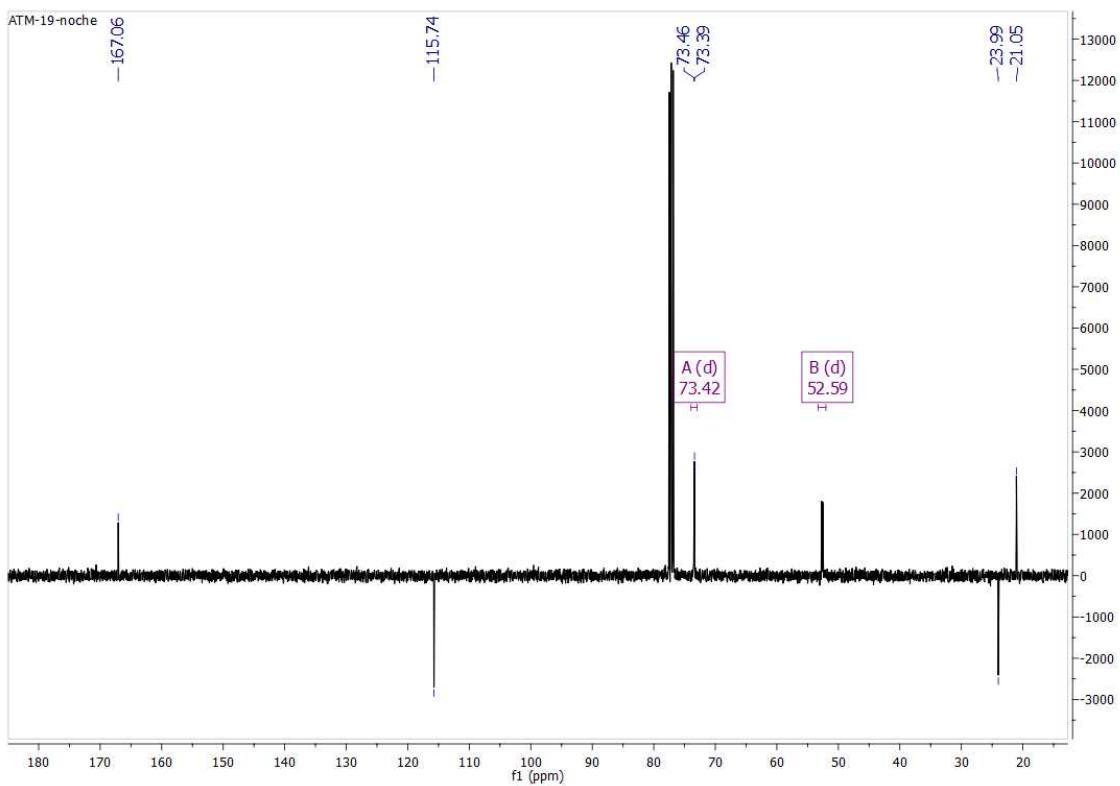


Figure S36. $^{13}\text{C}\{\text{H}\}$ NMR of compound **11**

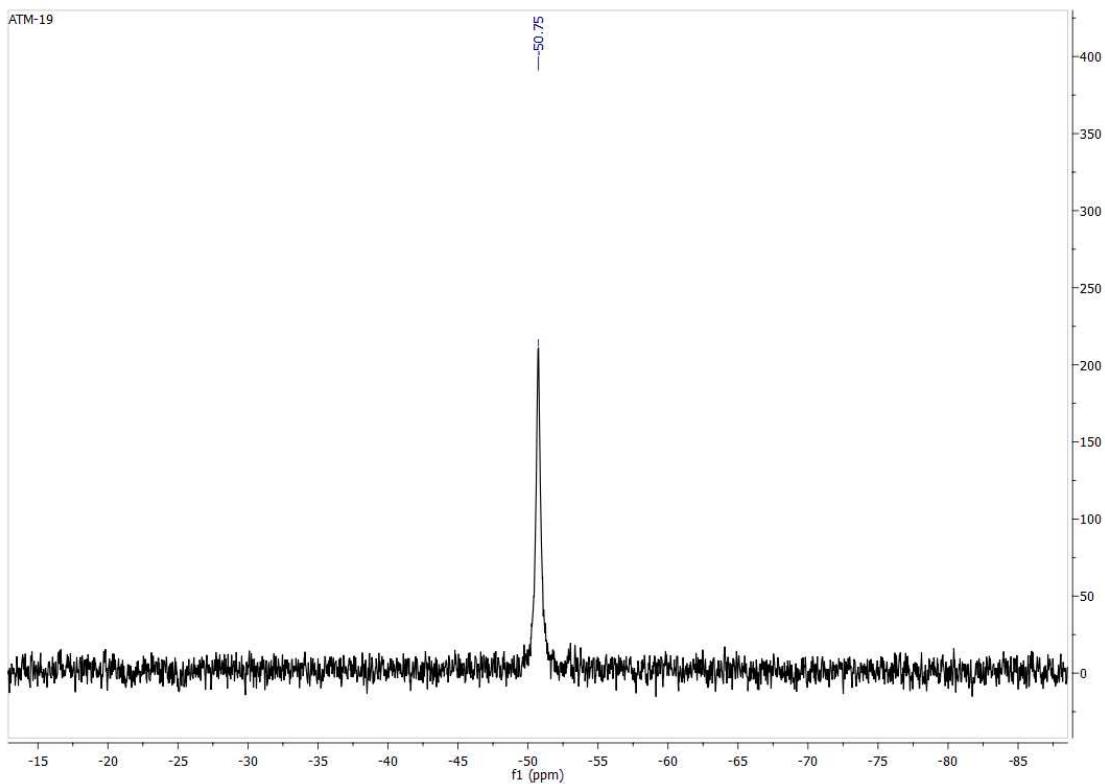


Figure S37. $^{31}\text{P}\{\text{H}\}$ NMR of compound **11**

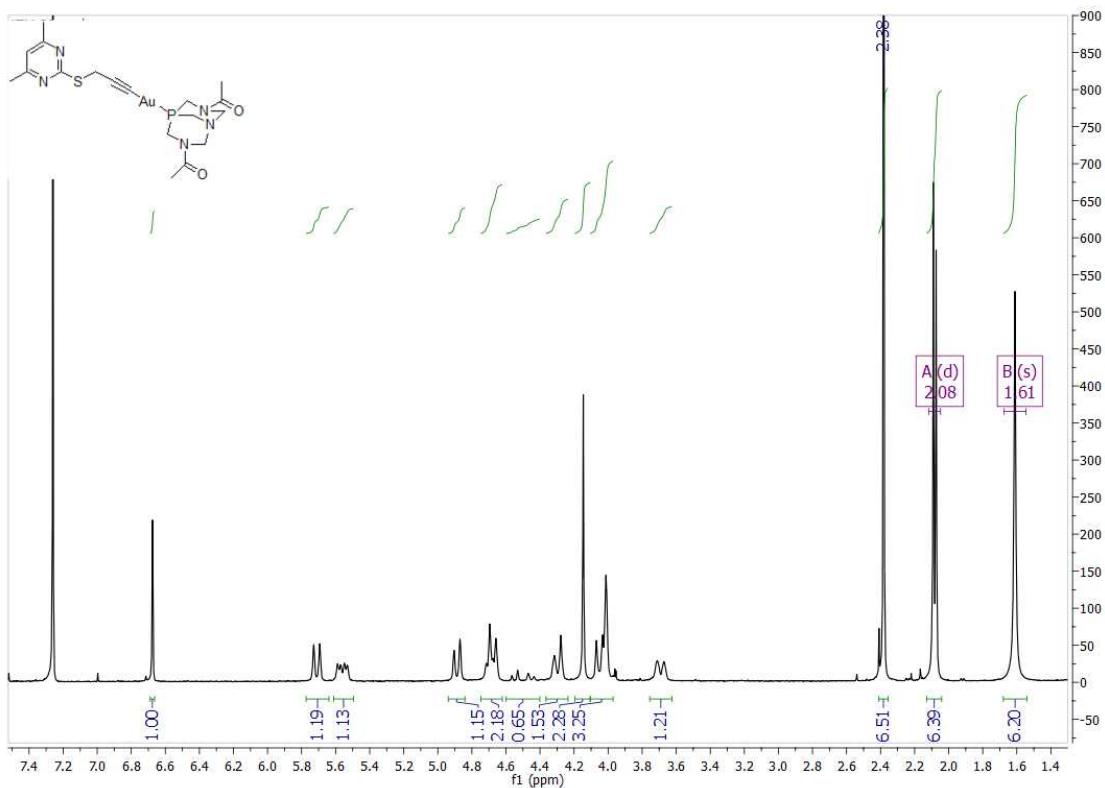


Figure S38. ^1H NMR of compound **12**

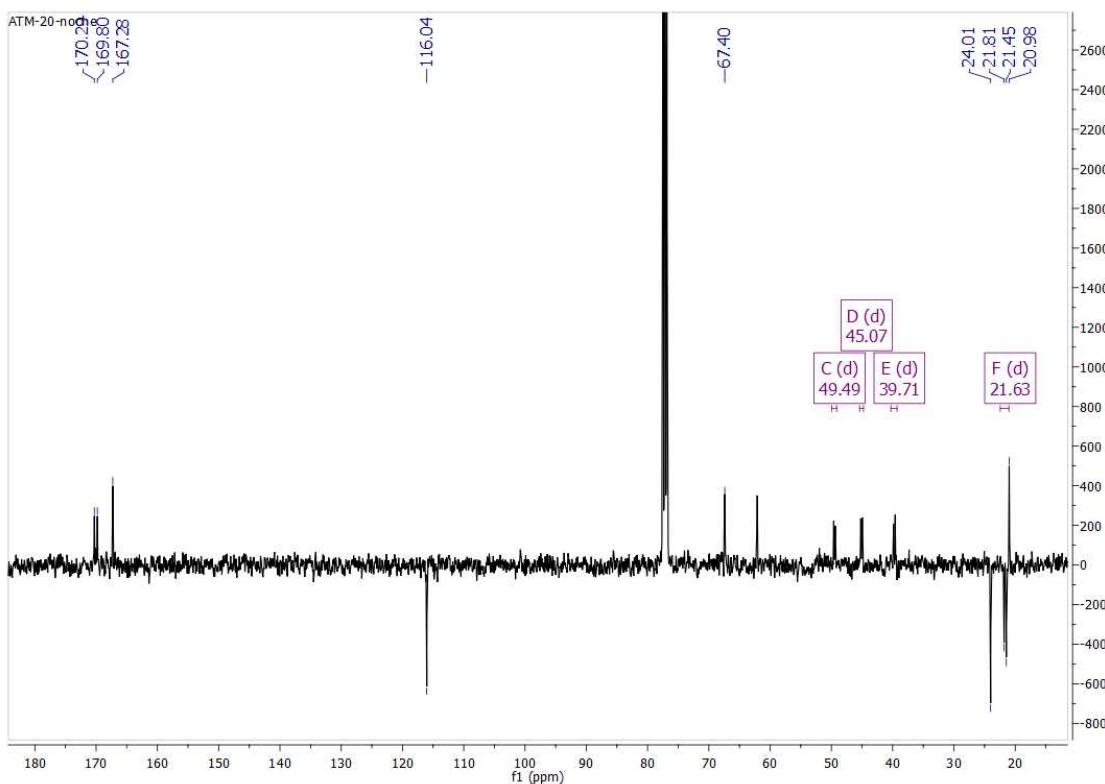


Figure S39. $^{13}\text{C}\{^1\text{H}\}$ NMR of compound **12**

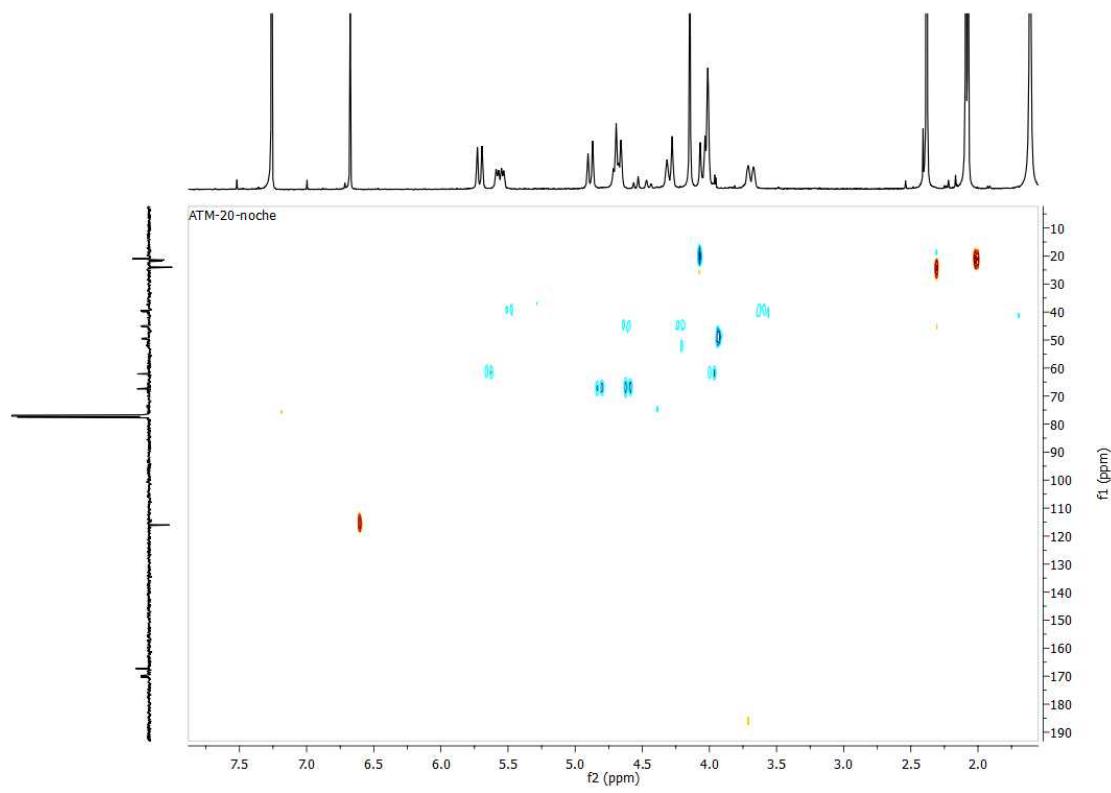


Figure S40. C,H-HSQC NMR of compound **12**

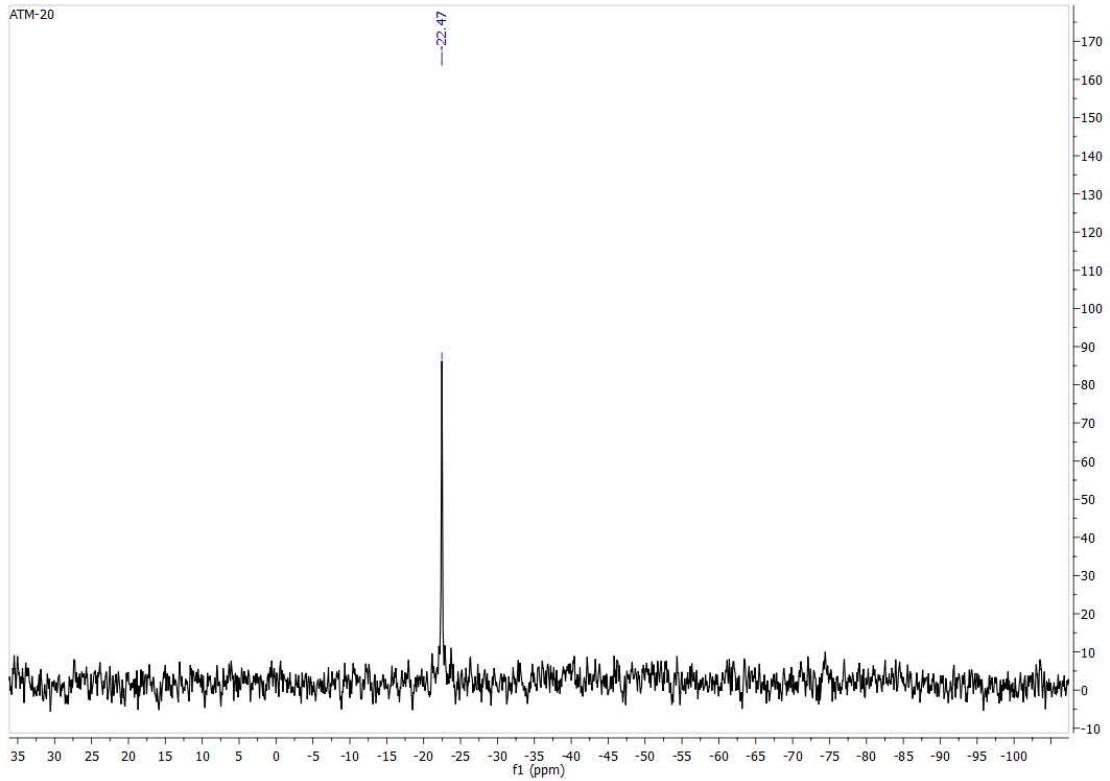


Figure S41. $^{31}\text{P}\{\text{H}\}$ NMR of compound **12**