Supplementary Information

Vasoactive Thiomethyl-Pyrimidines: Promising Drug Candidates with Vascular Activity

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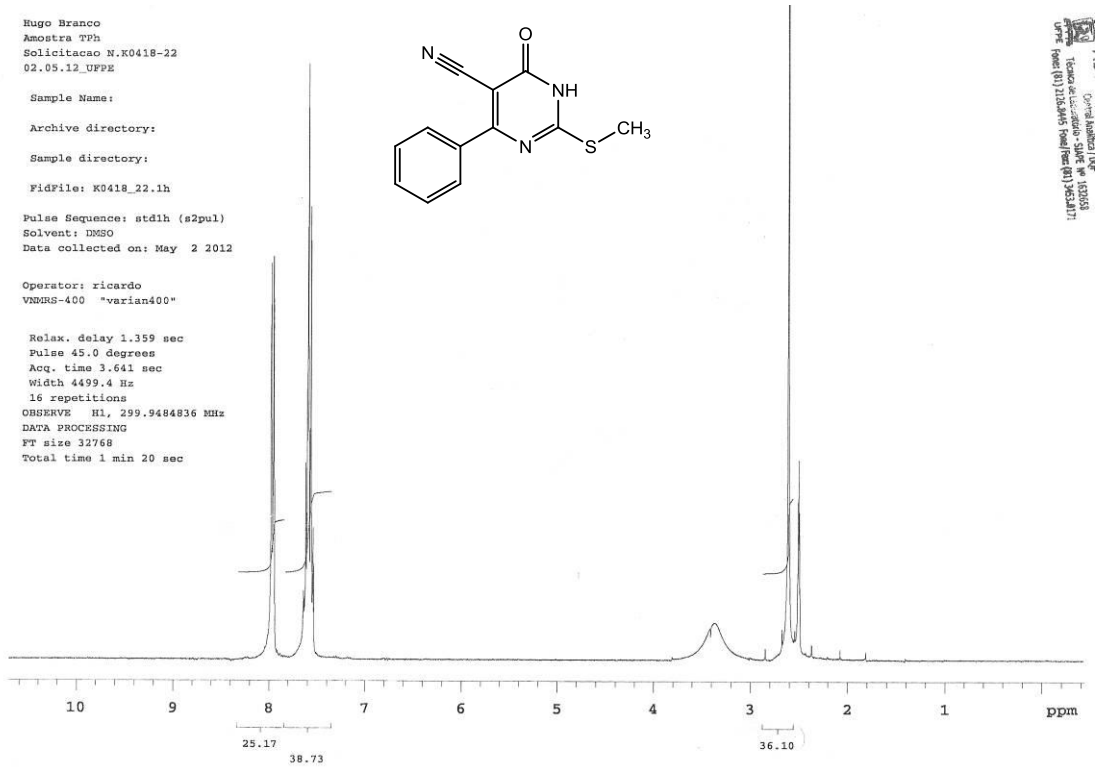

Figure S1. ^{1}H NMR spectrum (400 MHz, DMSO-d_6) of compound **4a**.

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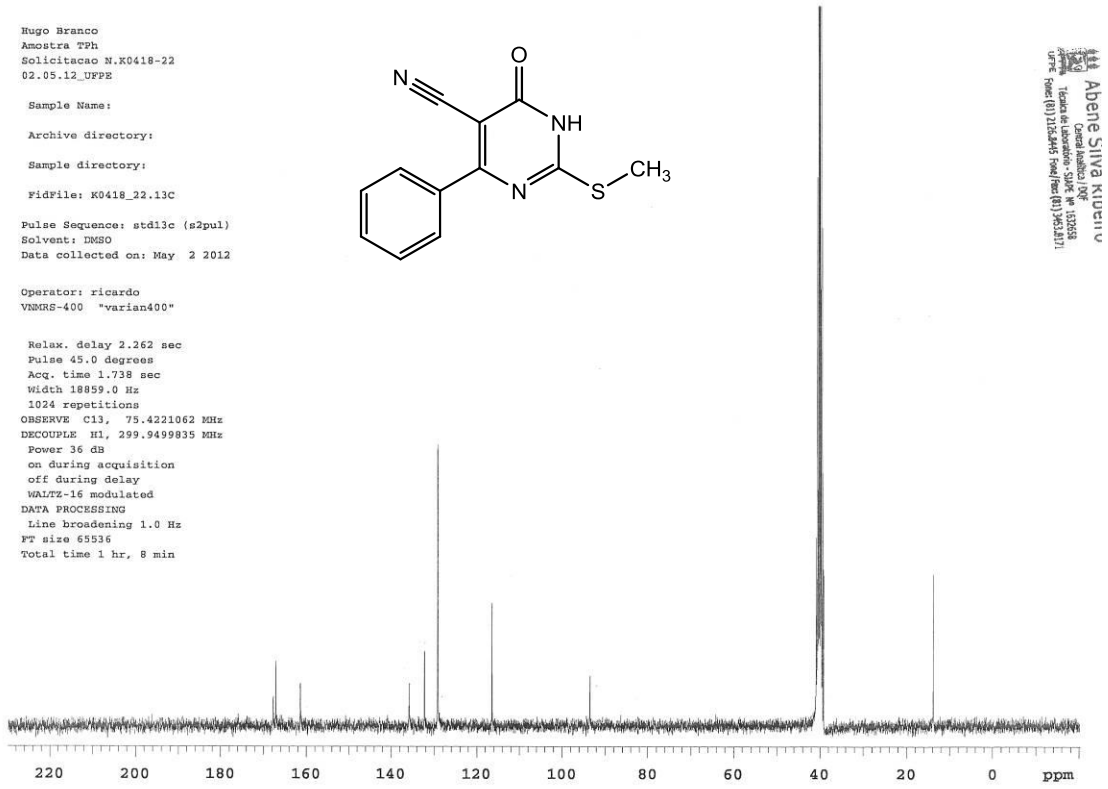

Figure S2. ^{13}C NMR spectrum (100 MHz, DMSO-d_6) of compound **4a**.

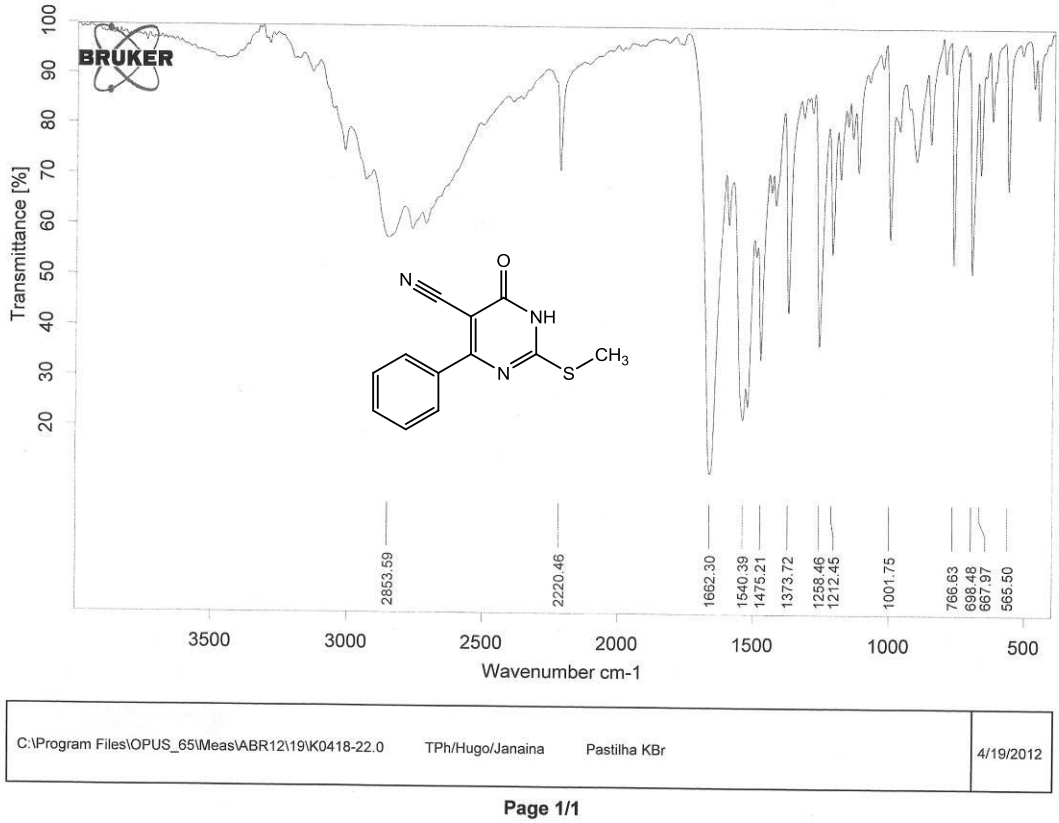

Figure S3. FTIR (KBr) spectrum of compound **4a**.

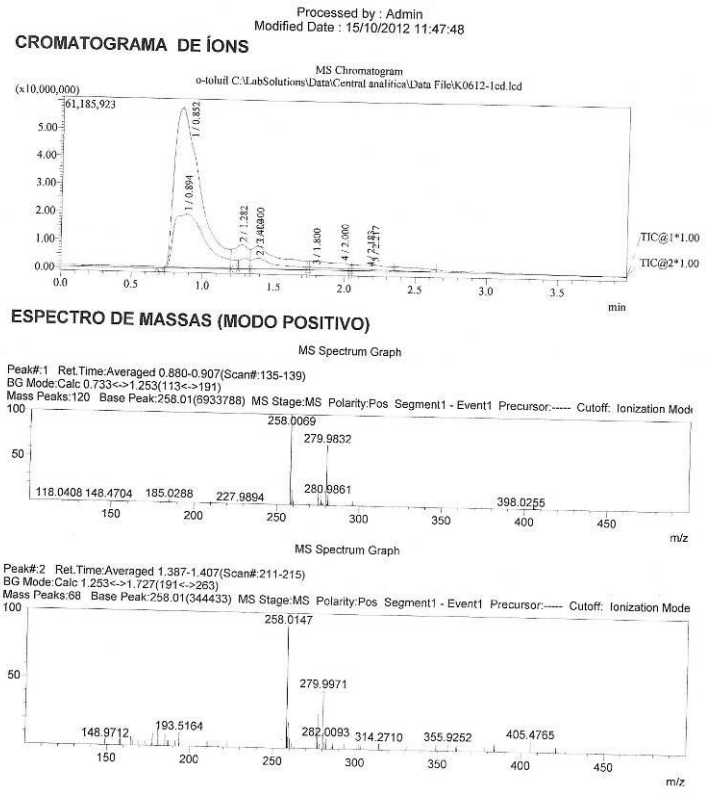

Figure S4. Mass spectrum of compound **4b**.

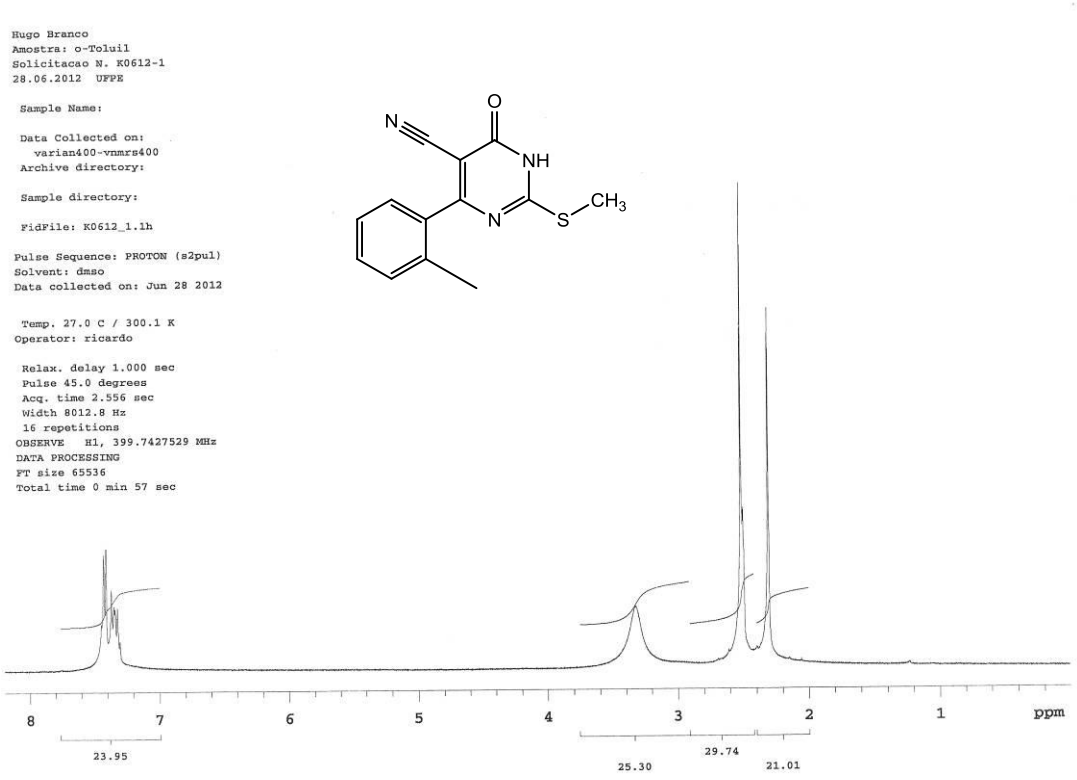

Figure S5. ^{1}H NMR spectrum (400 MHz, DMSO-d_6) of compound **4b**.

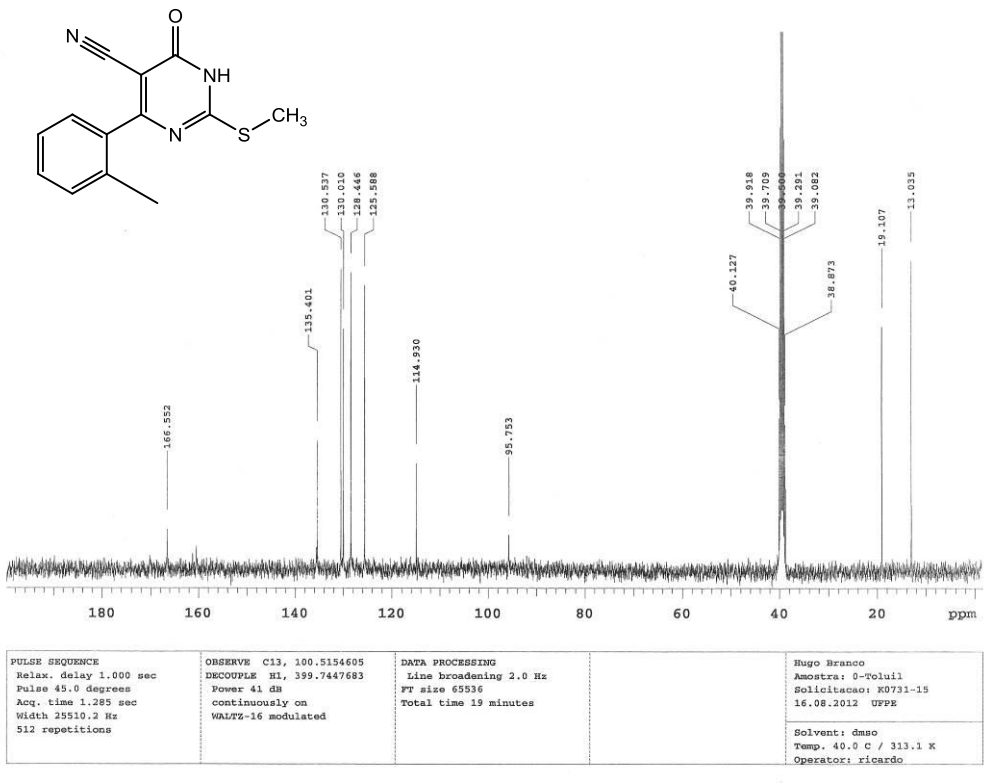

Figure S6. ^{13}C NMR (100 MHz, DMSO-d_6) of compound **4b**.

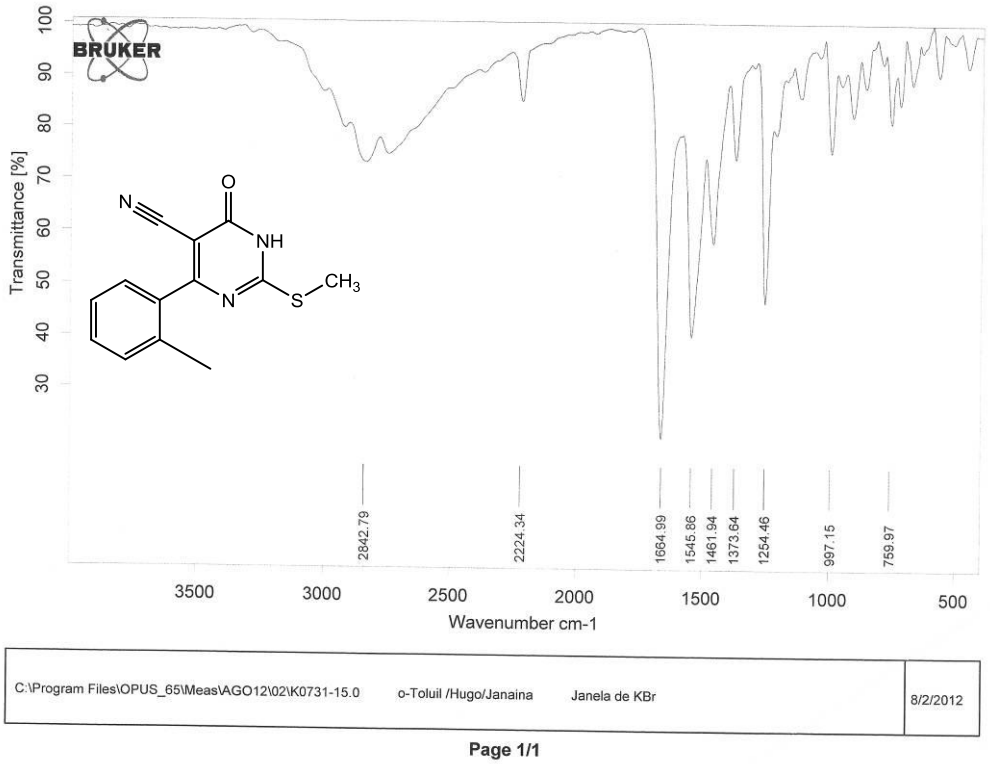

Figure S7. FTIR (KBr) spectrum of compound **4b**.

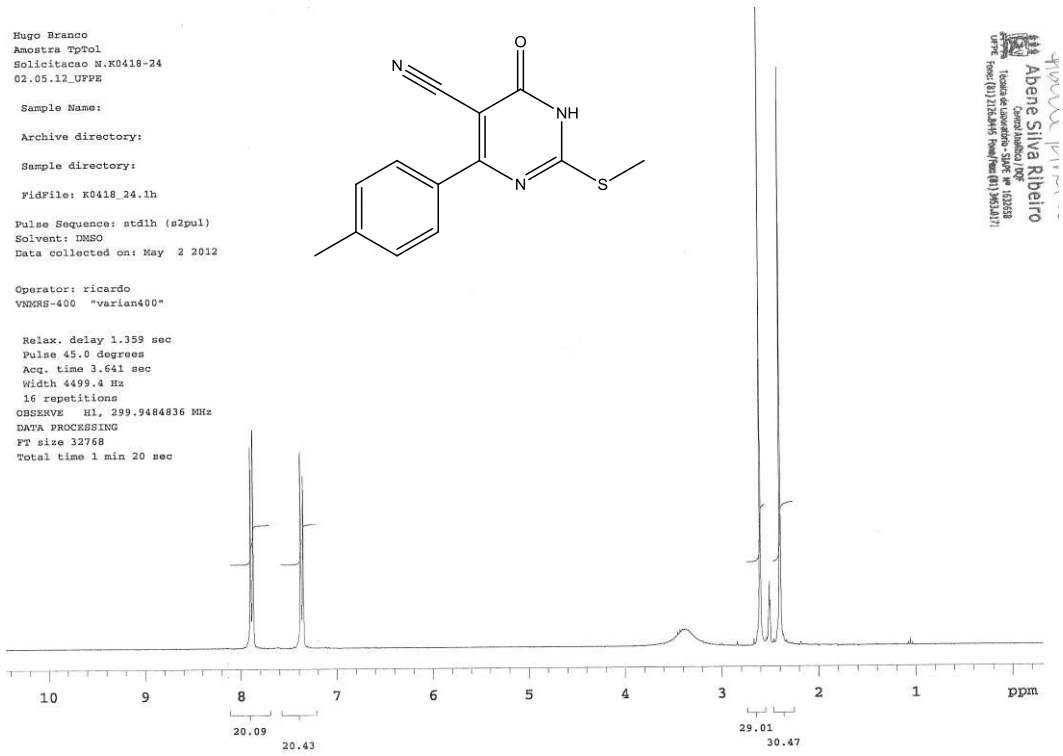

Figure S8. ^{1}H NMR spectrum (400 MHz, DMSO-d_6) of compound **4c**.

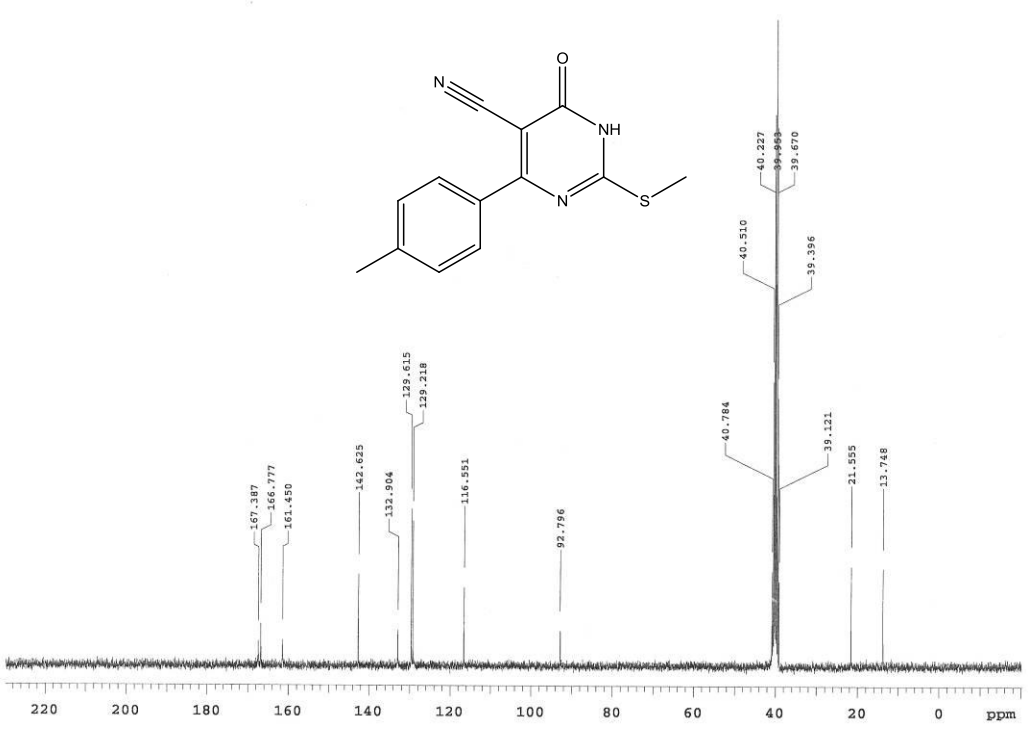

Figure S9. ^{13}C NMR spectrum (100 MHz, DMSO-d_6) of compound **4c**.

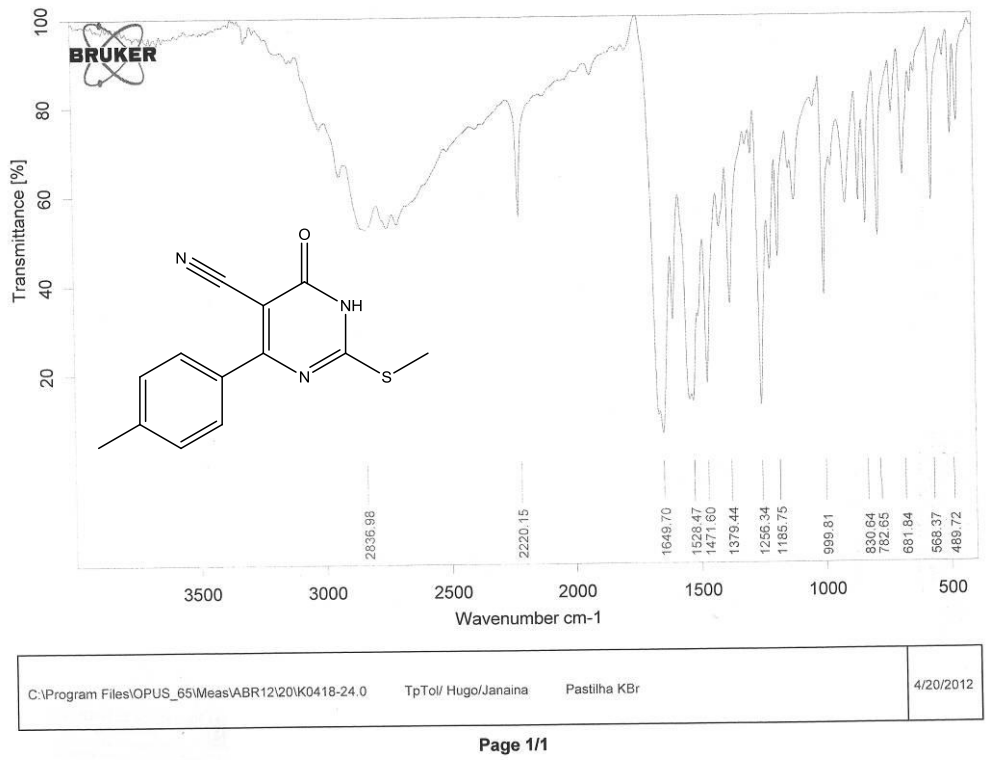

Figure S10. FTIR (KBr) spectrum of compound **4c**.

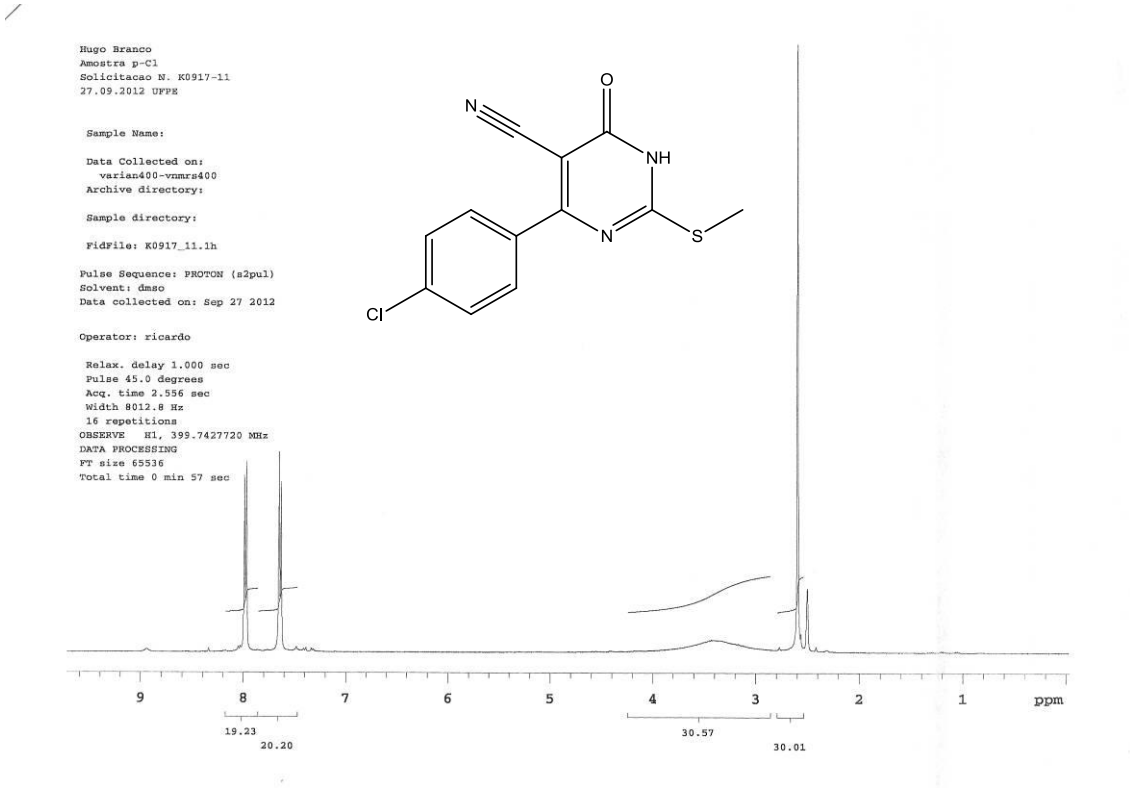

Figure S11. ^{1}H NMR spectrum (400 MHz, DMSO-d_6) of compound **4d**.

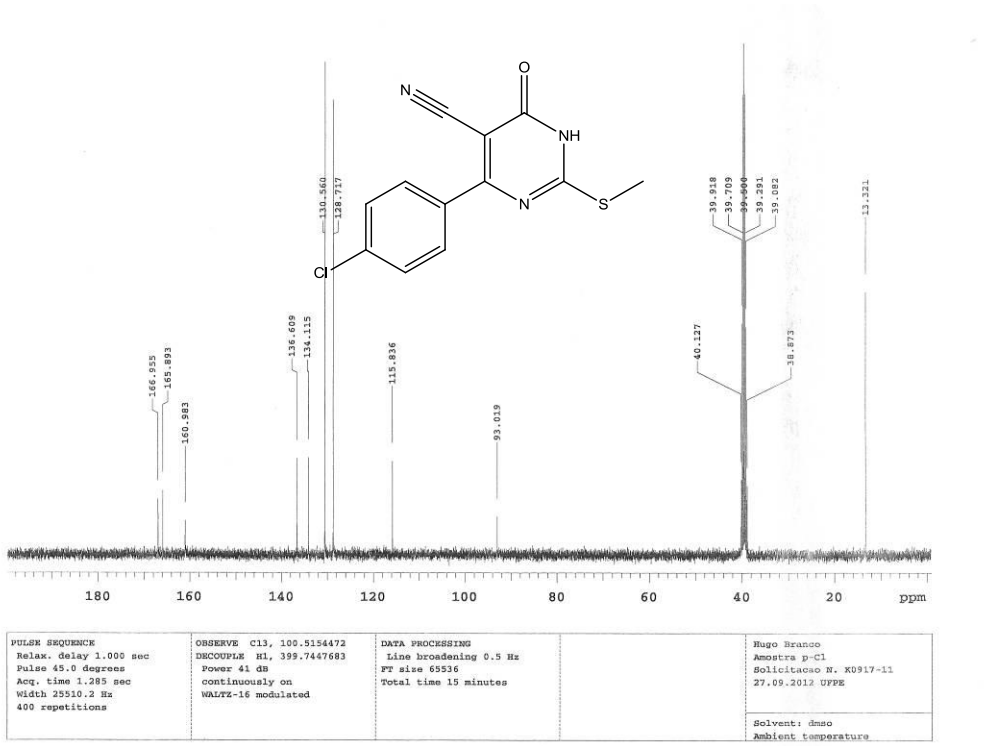

Figure S12. ^{13}C NMR spectrum (100 MHz, DMSO-d_6) of compound **4d**.

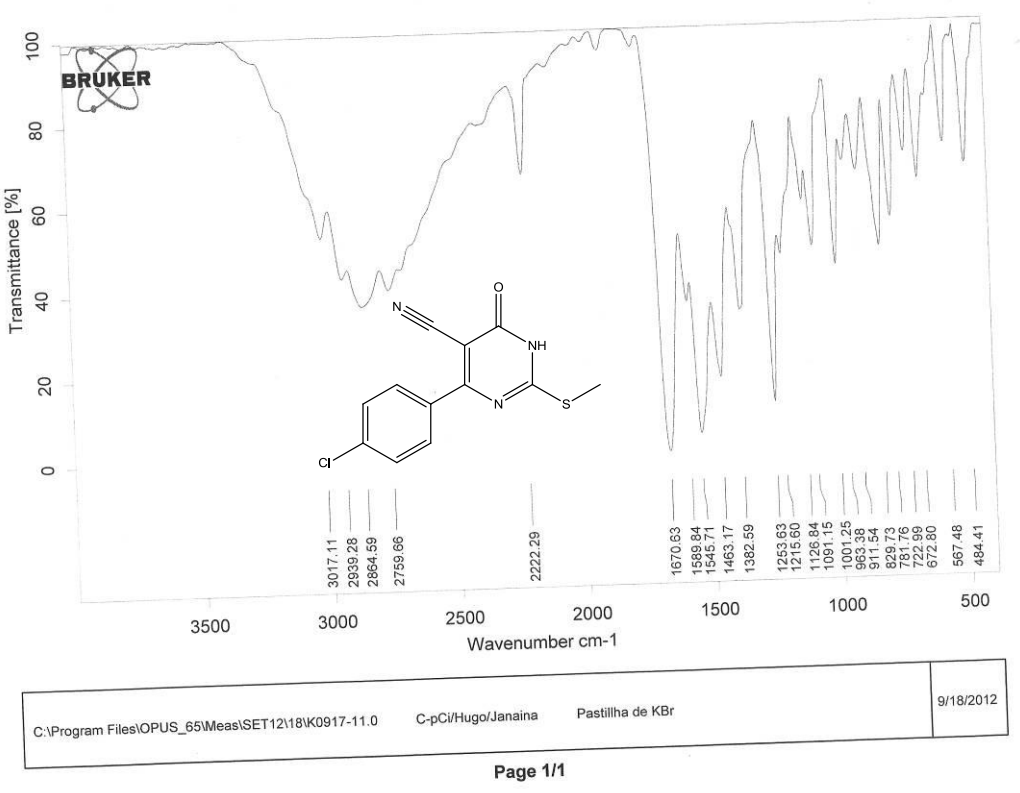

Figure S13. FTIR (KBr) spectrum of compound **4d**.

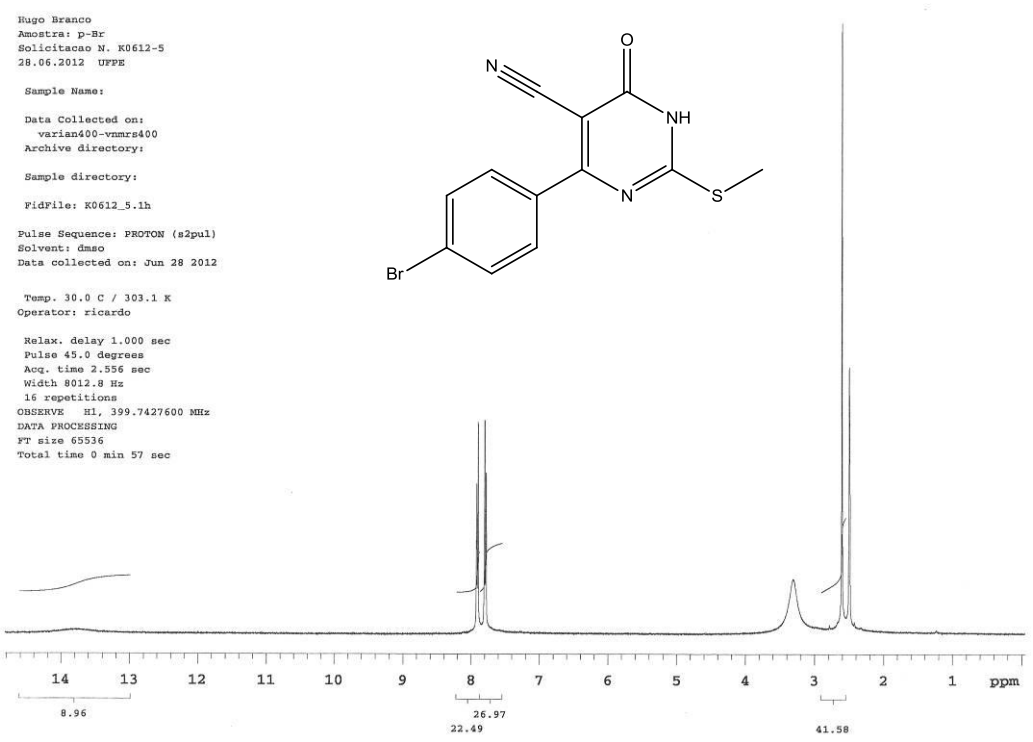

Figure S14. ^{1}H NMR spectrum (400 MHz, DMSO-d_6) of compound **4e**.

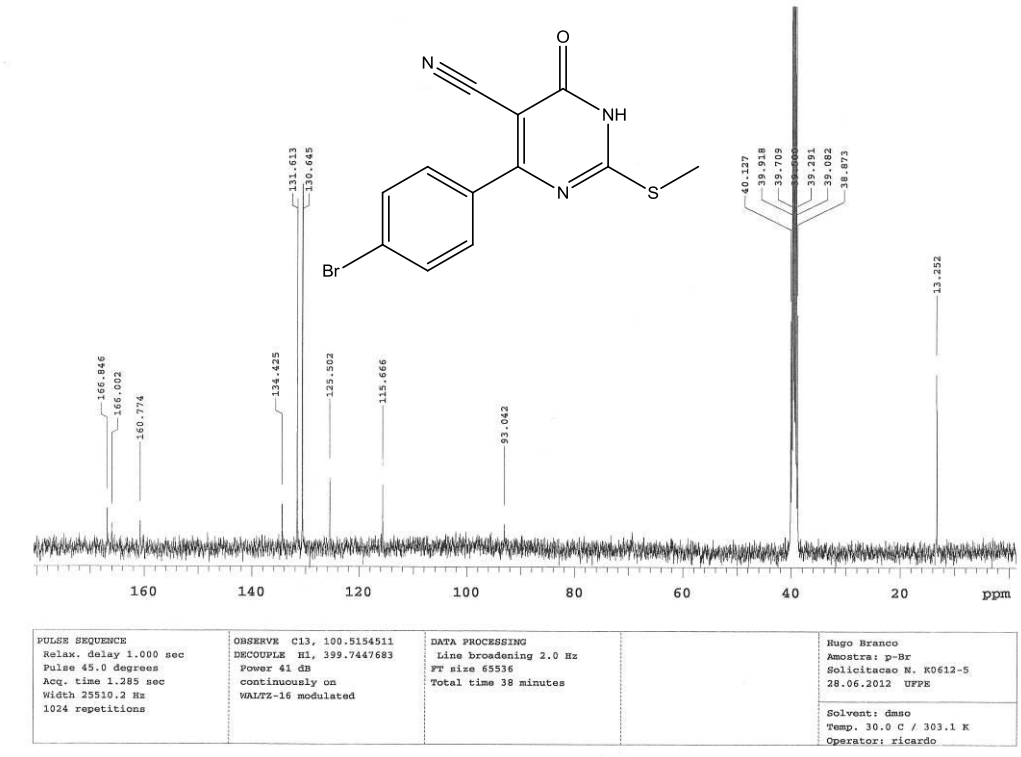

Figure S15. ^{13}C NMR (100 MHz, DMSO-d_6) of compound **4e**.

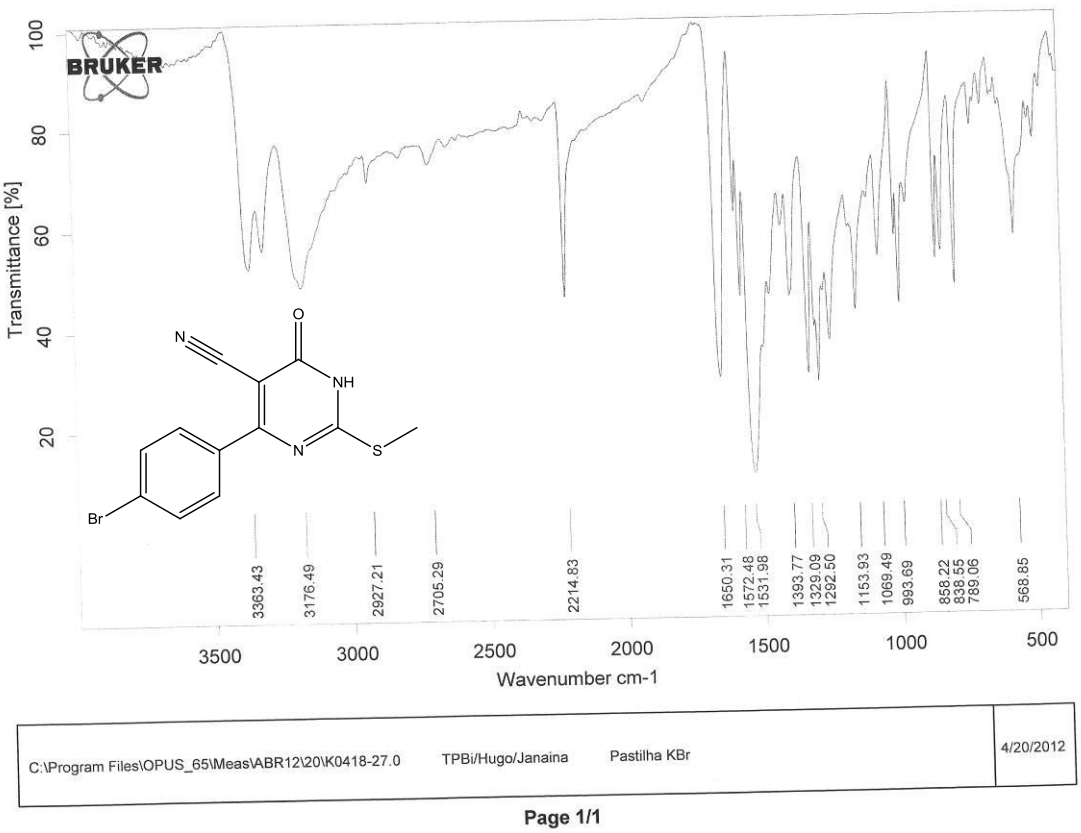

Figure S16. FTIR (KBr) spectrum of compound **4e**.

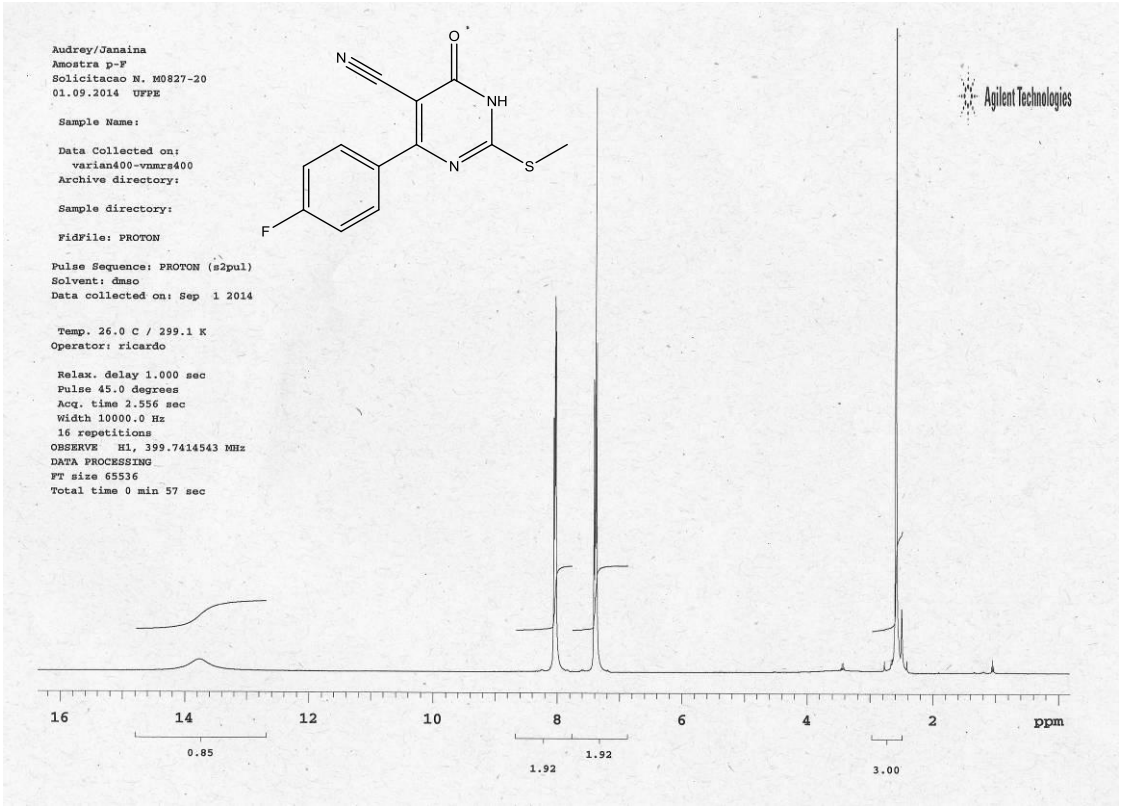

Figure S17. ^{1}H NMR spectrum (300 MHz, DMSO-d_6) of compound **4f**.

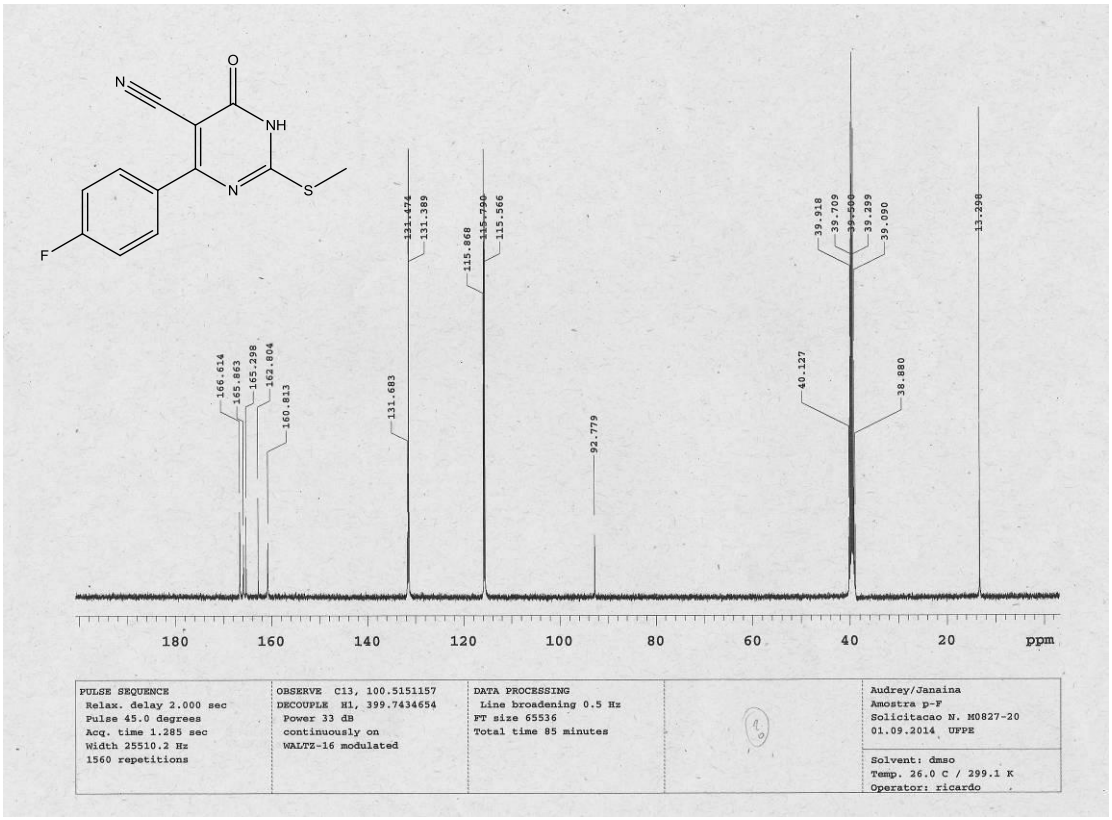

Figure S18. ^{13}C NMR spectrum (100 MHz, DMSO-d_6) of compound **4f**.

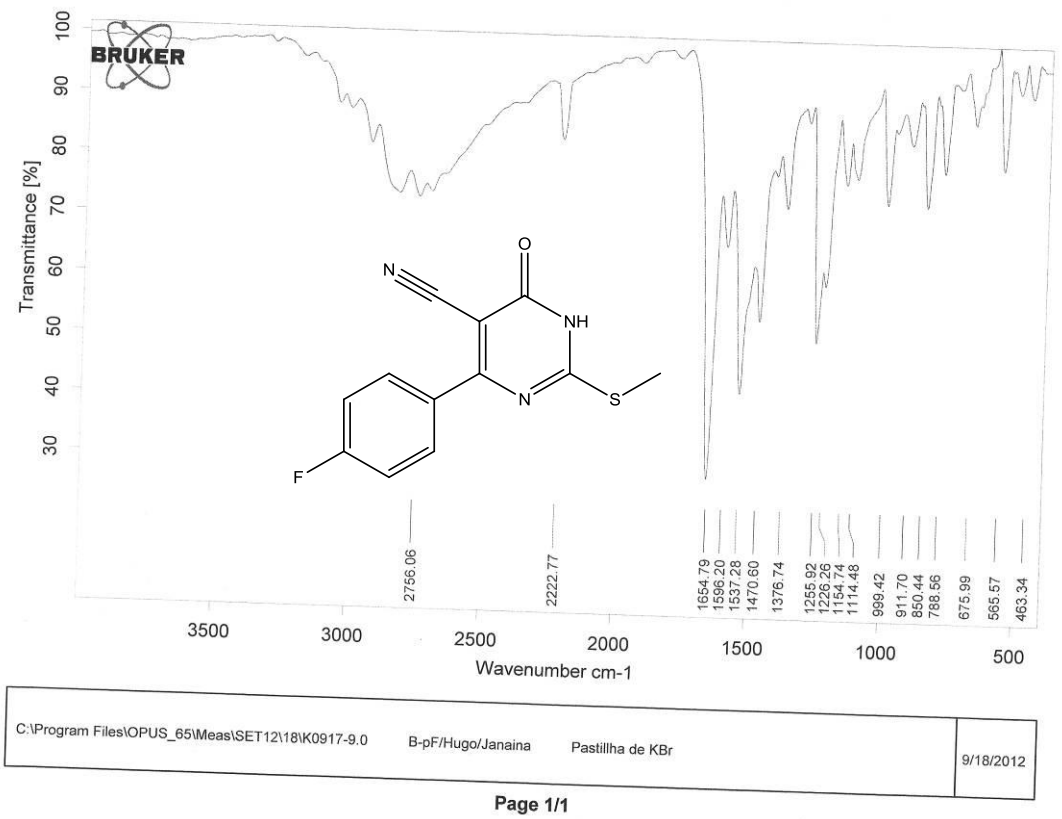

Figure S19. FTIR (KBr) spectrum of compound **4f**.

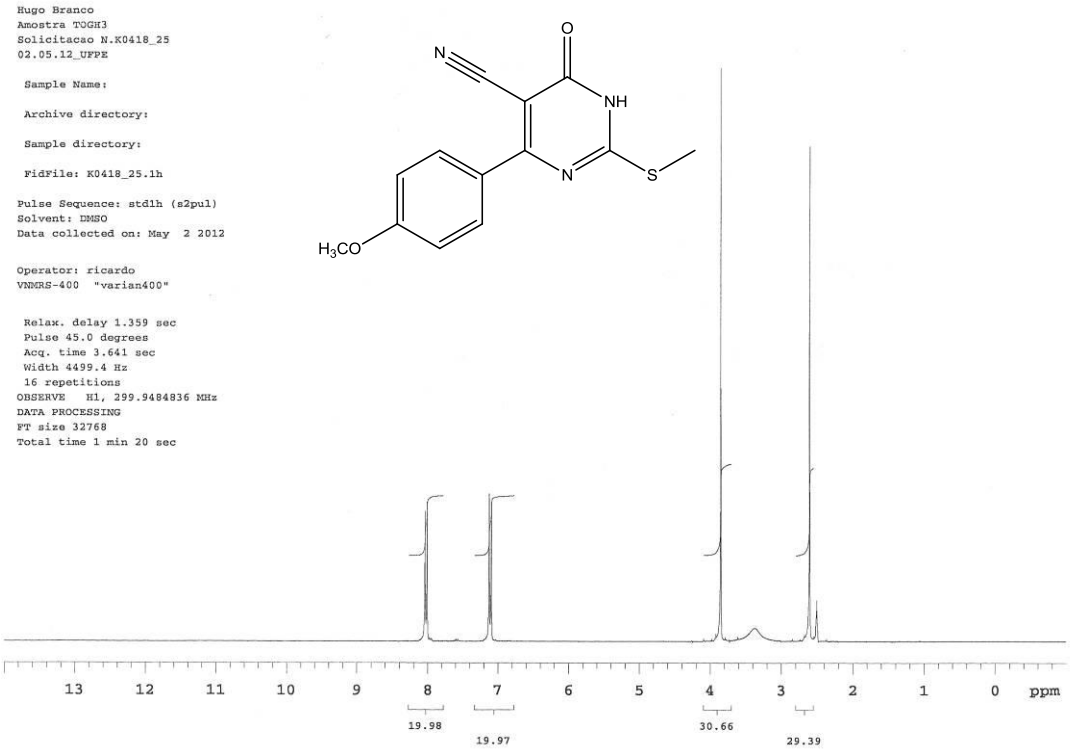

Figure S20. ^{1}H NMR spectrum (400 MHz, DMSO-d_6) of compound **4g**.

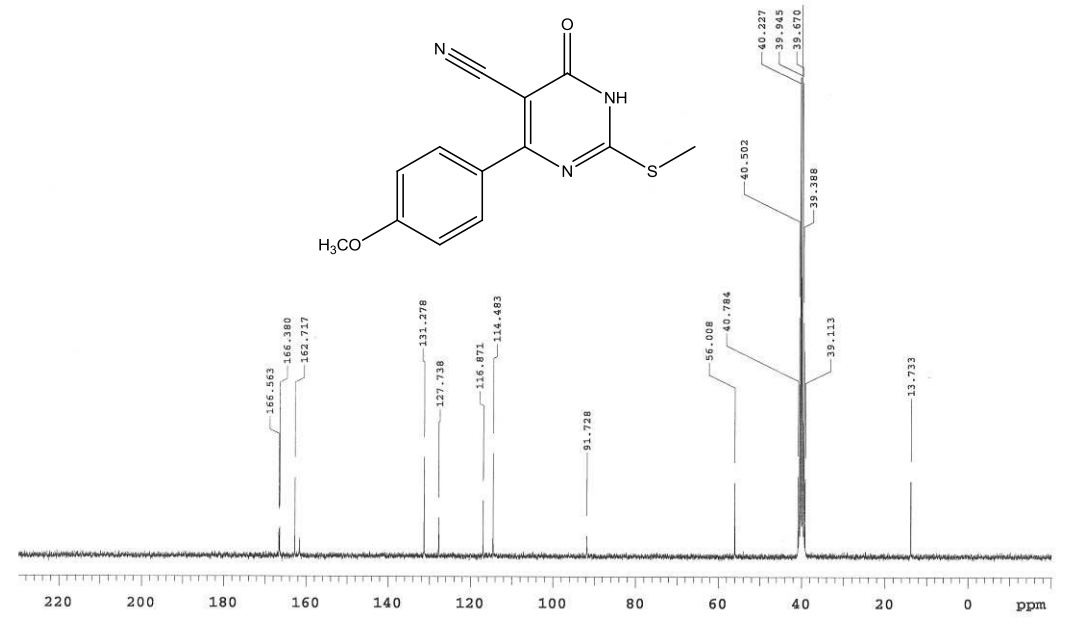

Figure S21. ^{13}C NMR spectrum (100 MHz, DMSO-d_6) of compound **4g**.

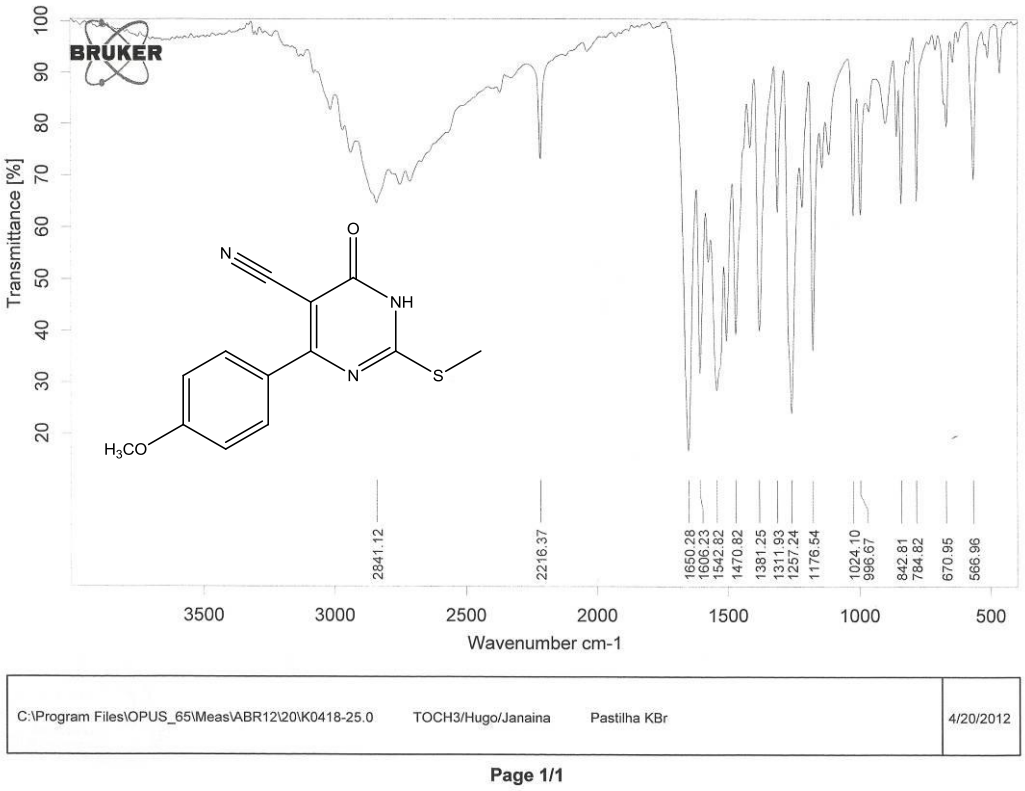

Figure S22. FTIR (KBr) spectrum of compound **4g**.

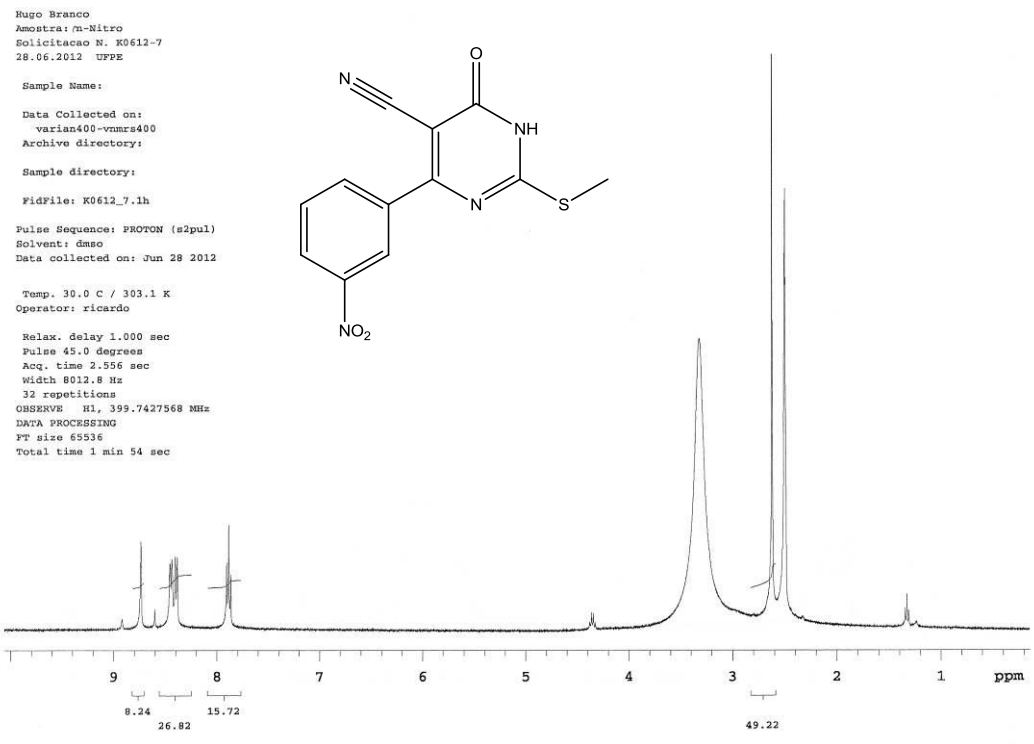

Figure S23. ^{1}H NMR spectrum (400 MHz, DMSO-d_6) of compound **4h**.

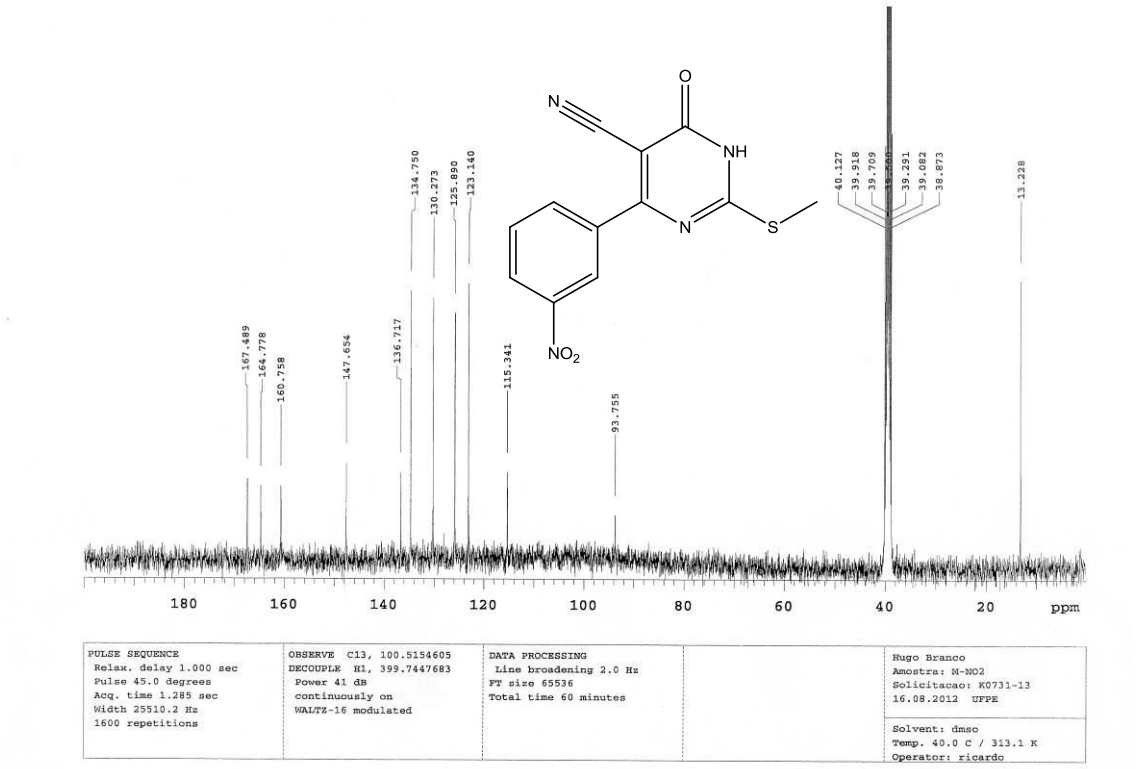

Figure S24. ^{13}C NMR spectrum (100 MHz, DMSO-d_6) of compound **4h**.

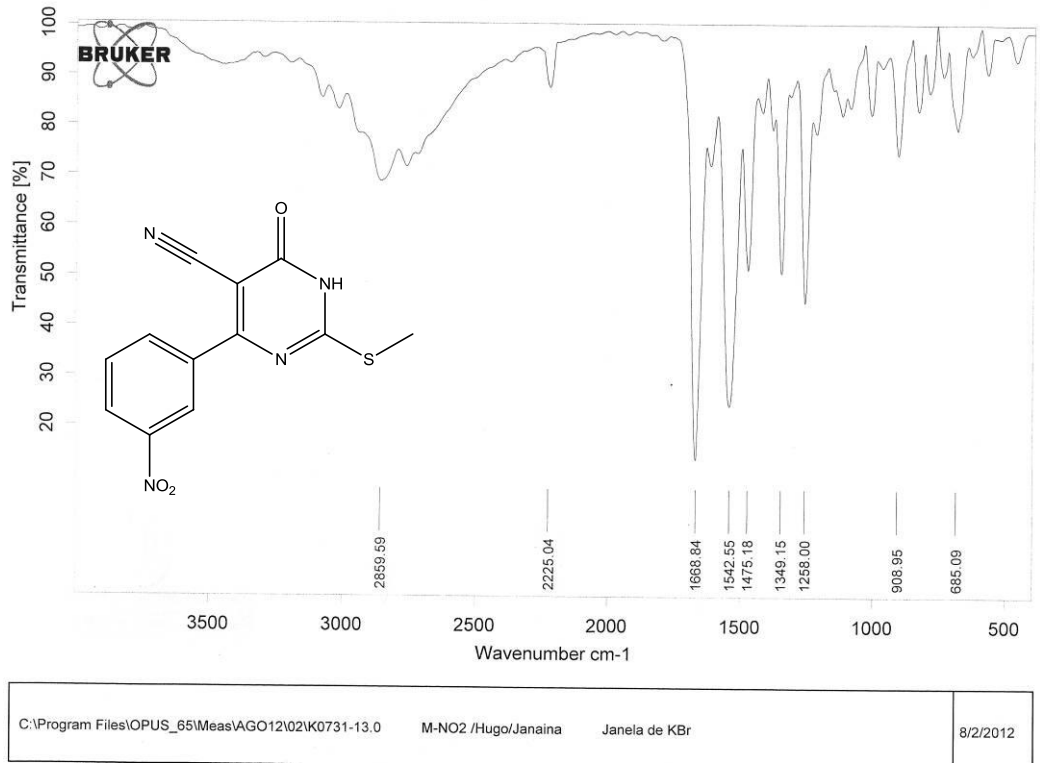

Figure S25. FTIR (KBr) spectrum of compound **4h**.

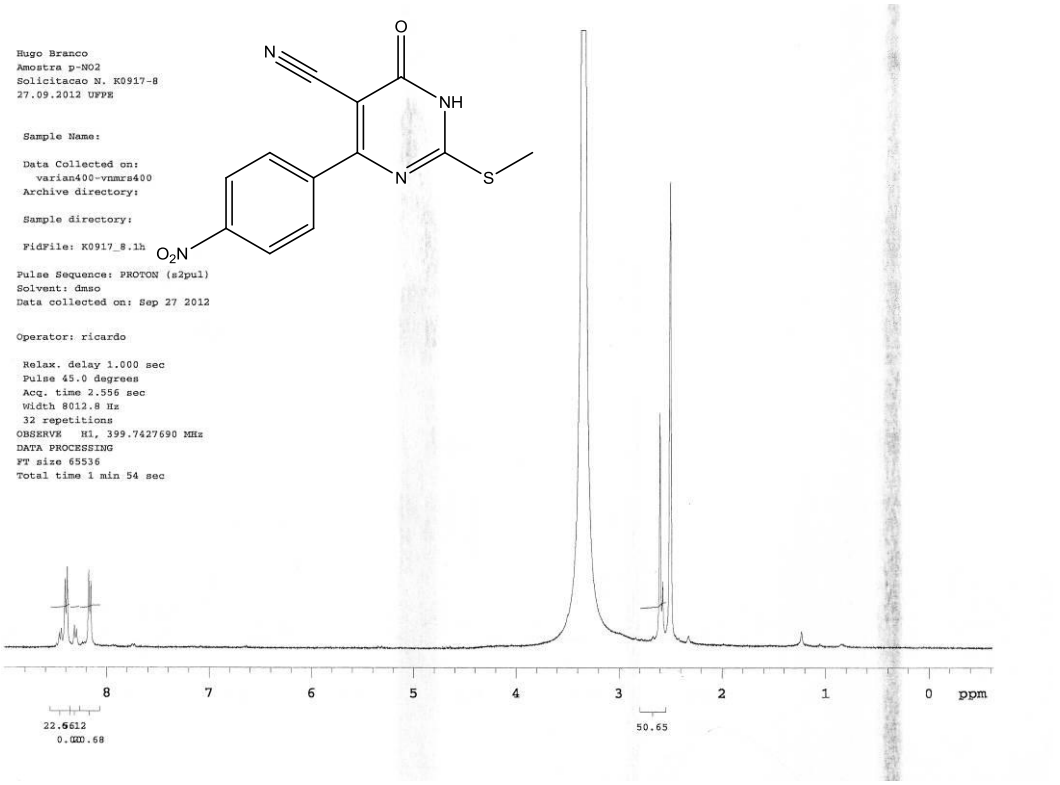

Figure S26. ^{1}H NMR spectrum (400 MHz, DMSO-d_6) of compound **4i**.

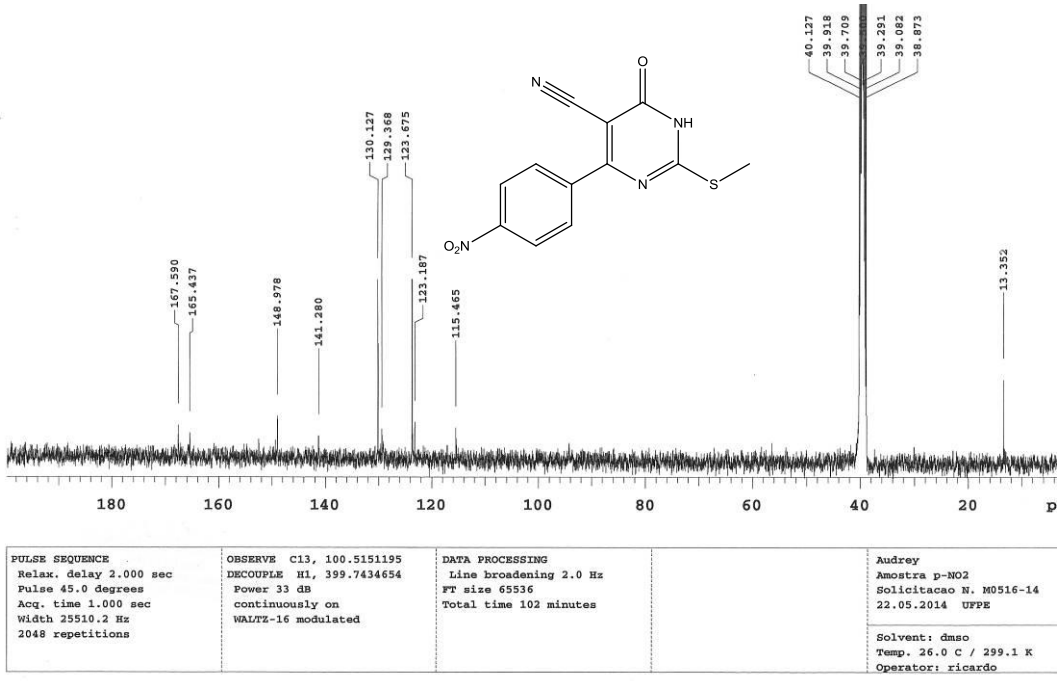

Figure S27. ^{13}C NMR spectrum (100 MHz, DMSO-d_6) of compound **4i**.

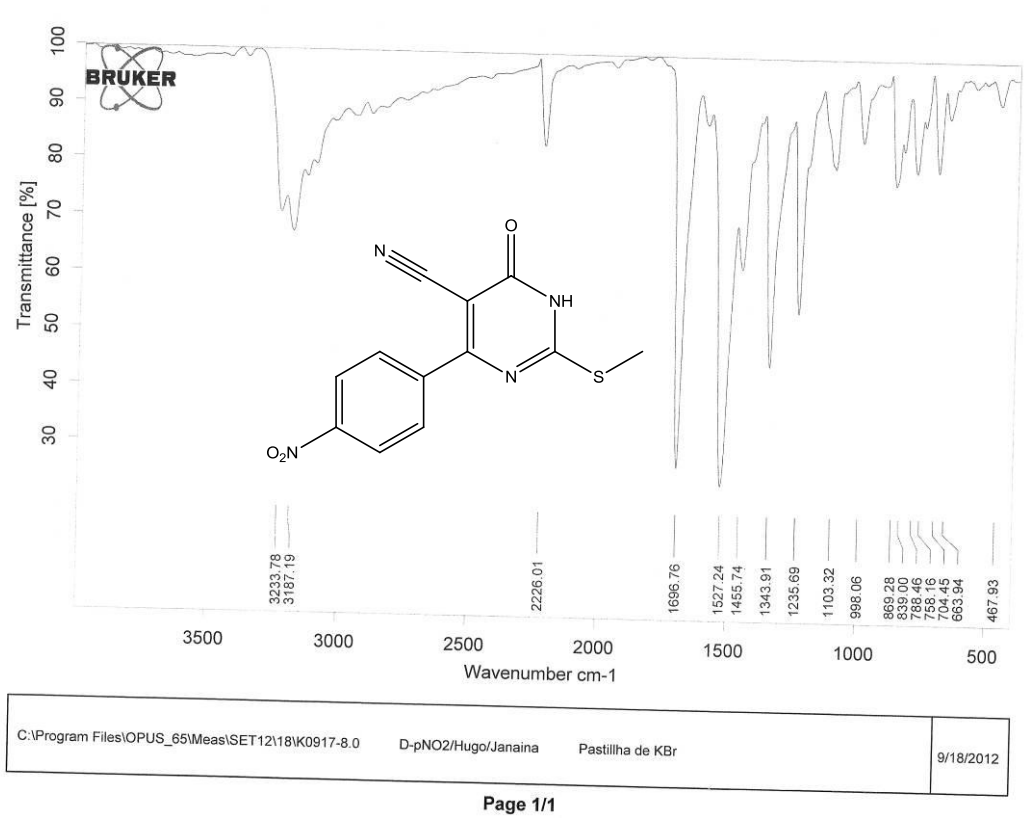

Figure S28. FTIR (KBr) spectrum of compound **4i**.

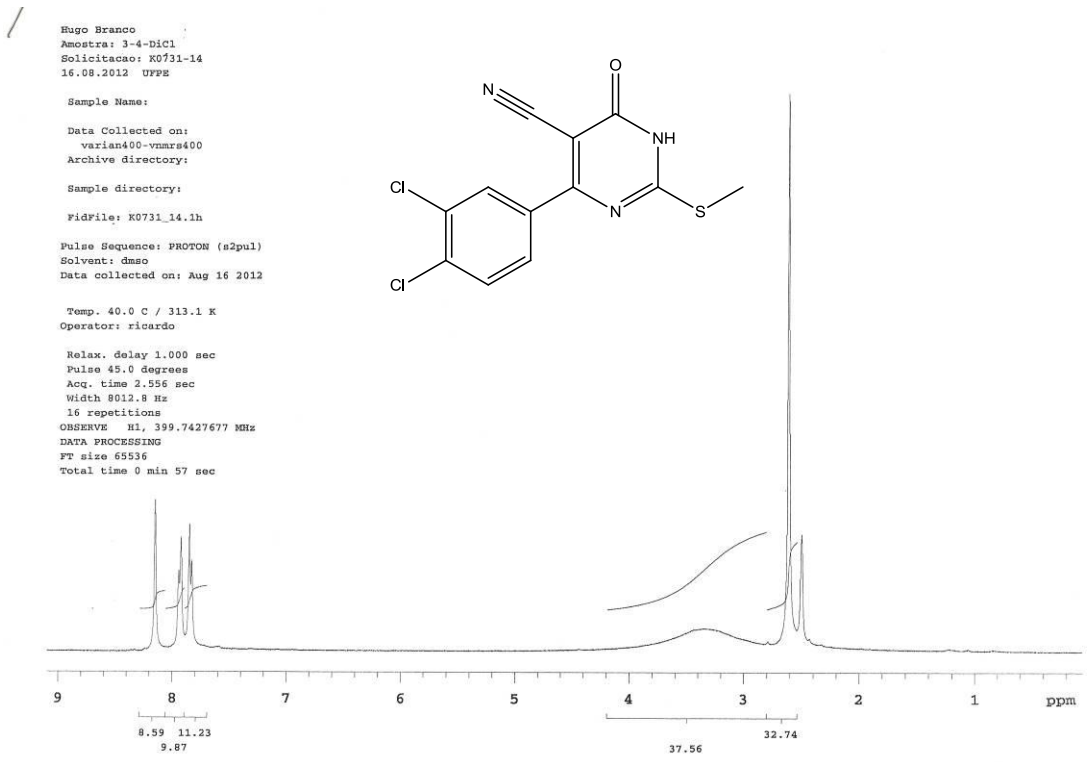

Figure S29. ^{1}H NMR spectrum (400 MHz, DMSO-d_6,) of compound **4j**.

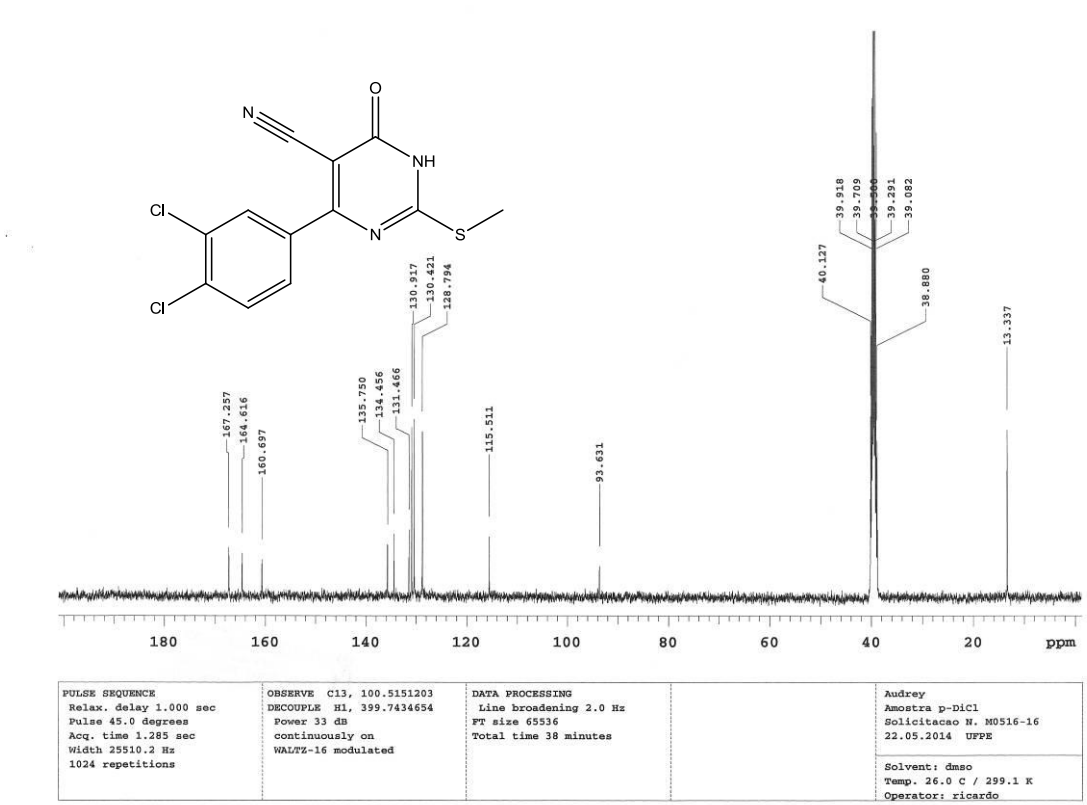

Figure S30. ^{13}C NMR spectrum (100 MHz, DMSO-d_6) of compound **4j**.

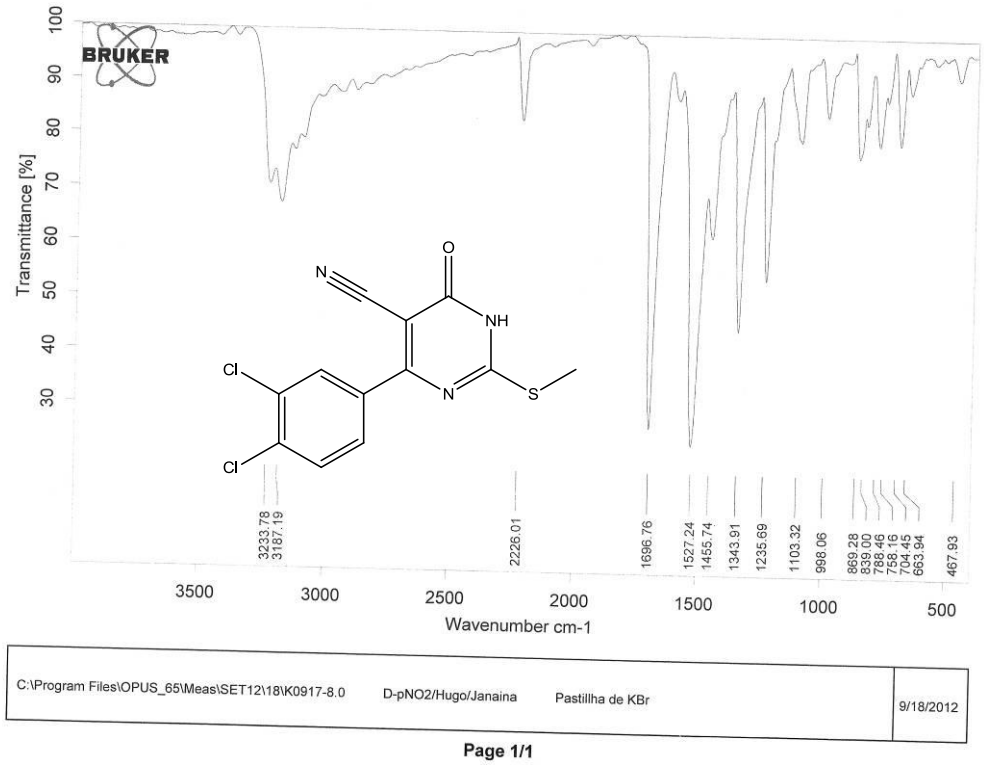

Figure S31. FTIR (KBr) spectrum of compound **4j**.

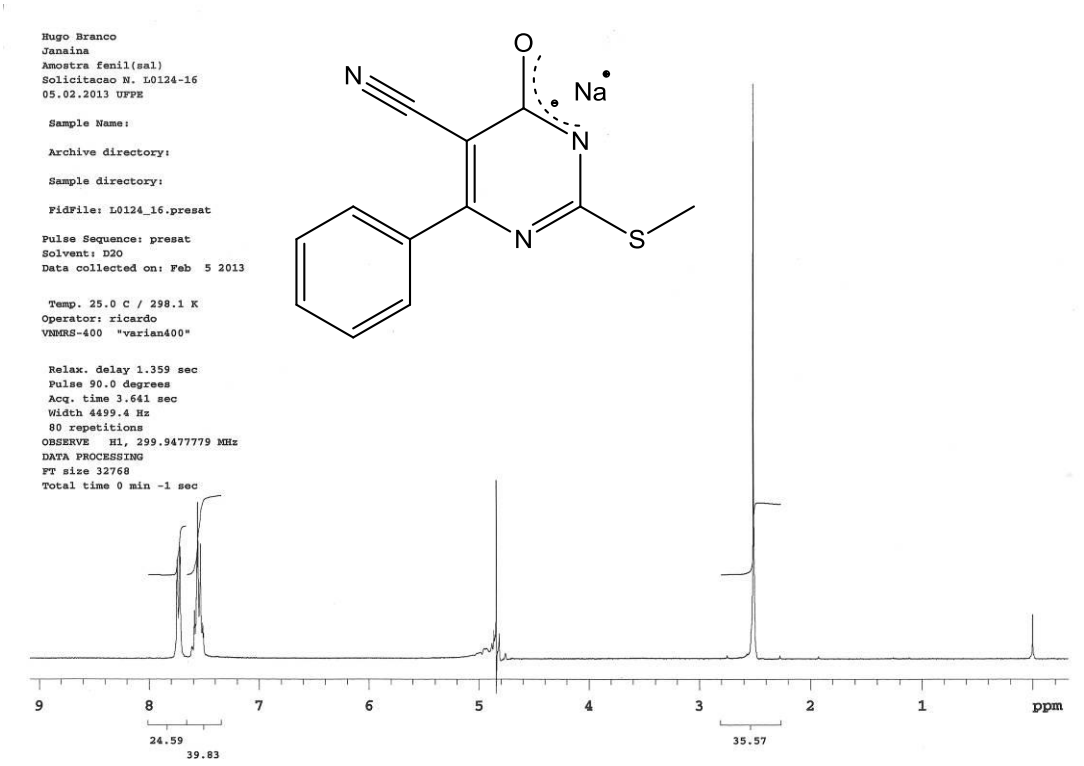

Figure S32. ^{1}H NMR spectrum (400 MHz, D_2O) of compound **5a**.

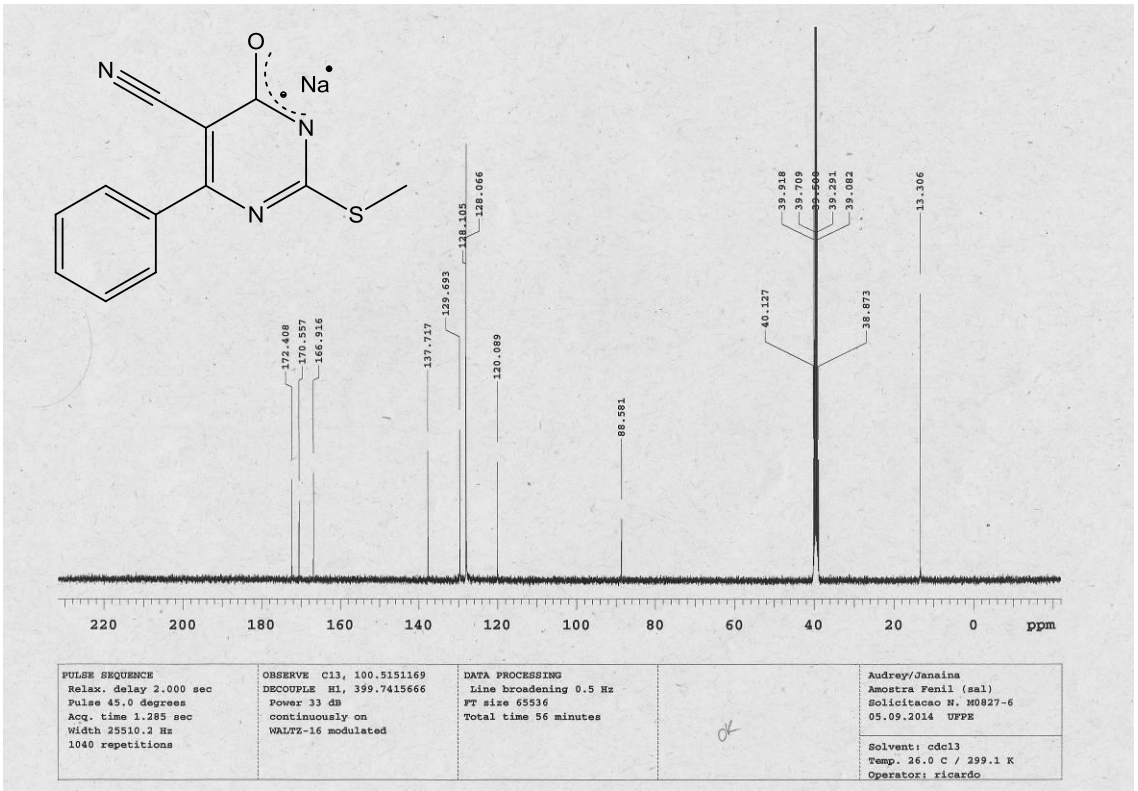

Figure S33. ^{13}C NMR spectrum (100 MHz, DMSO-d_6) of compound **5a**.

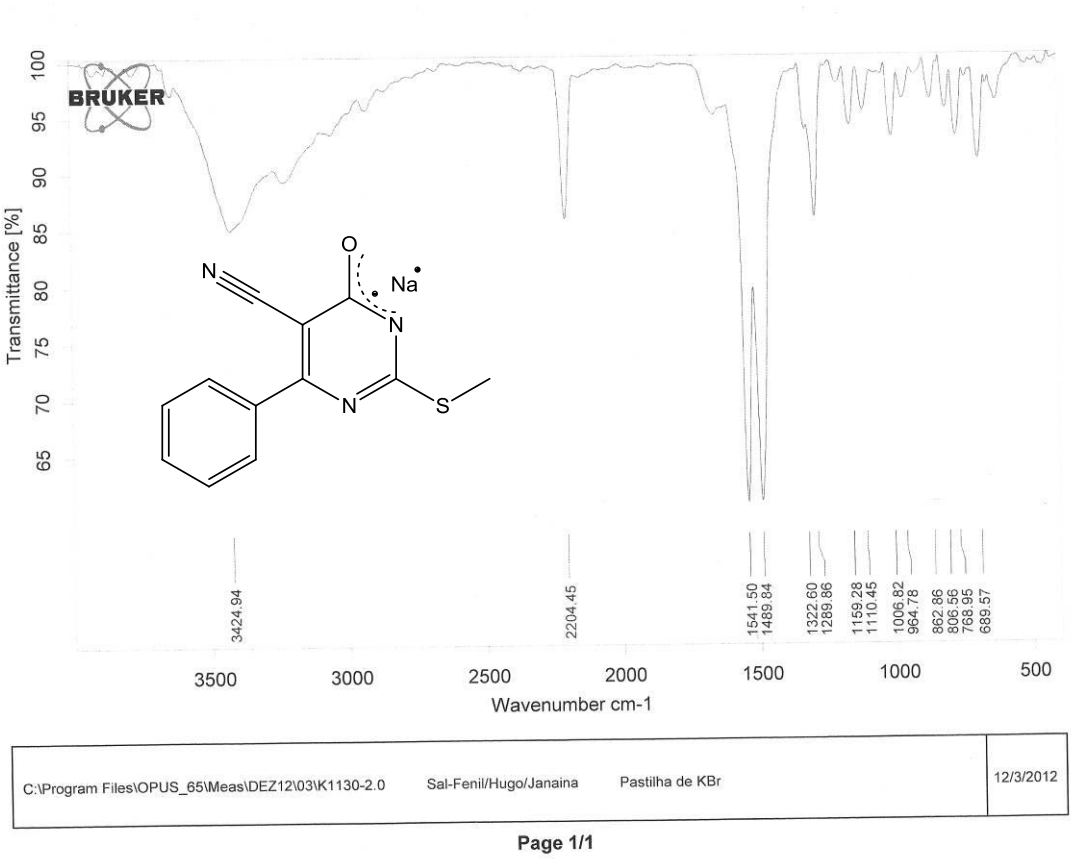

Figure S34. FTIR (KBr) spectrum of compound **5a**.

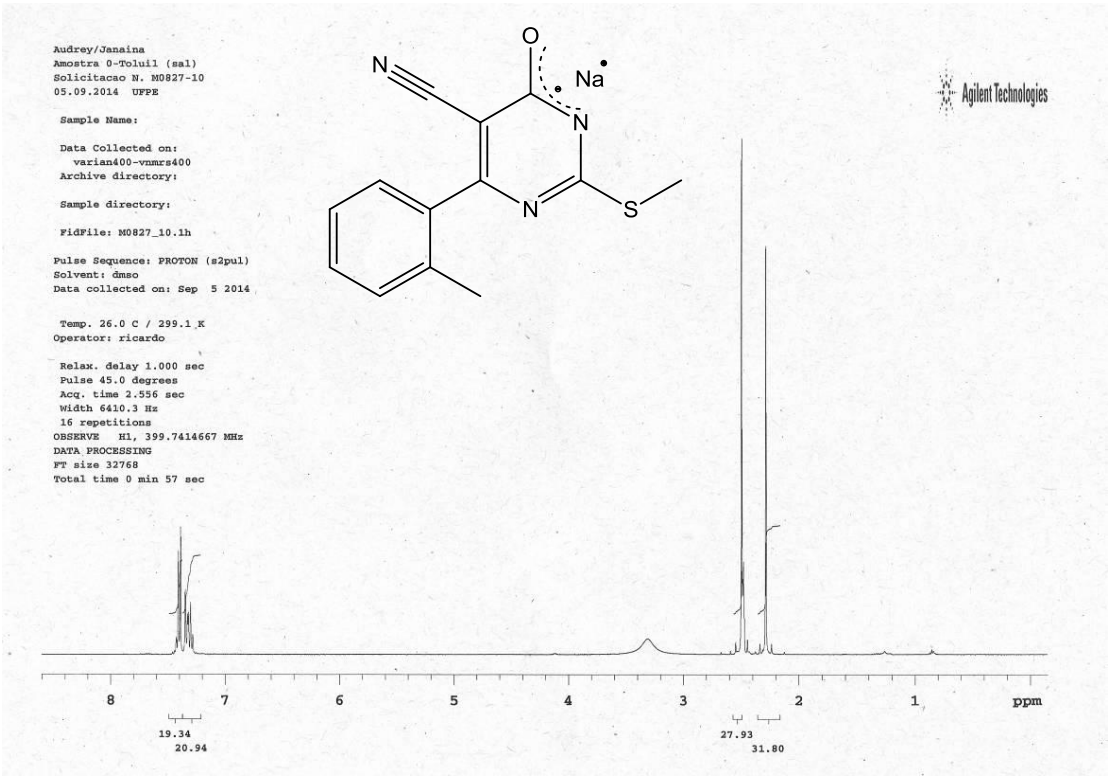

Figure S35. ^{1}H NMR spectrum (400 MHz, DMSO-d_6) of compound **5b**.

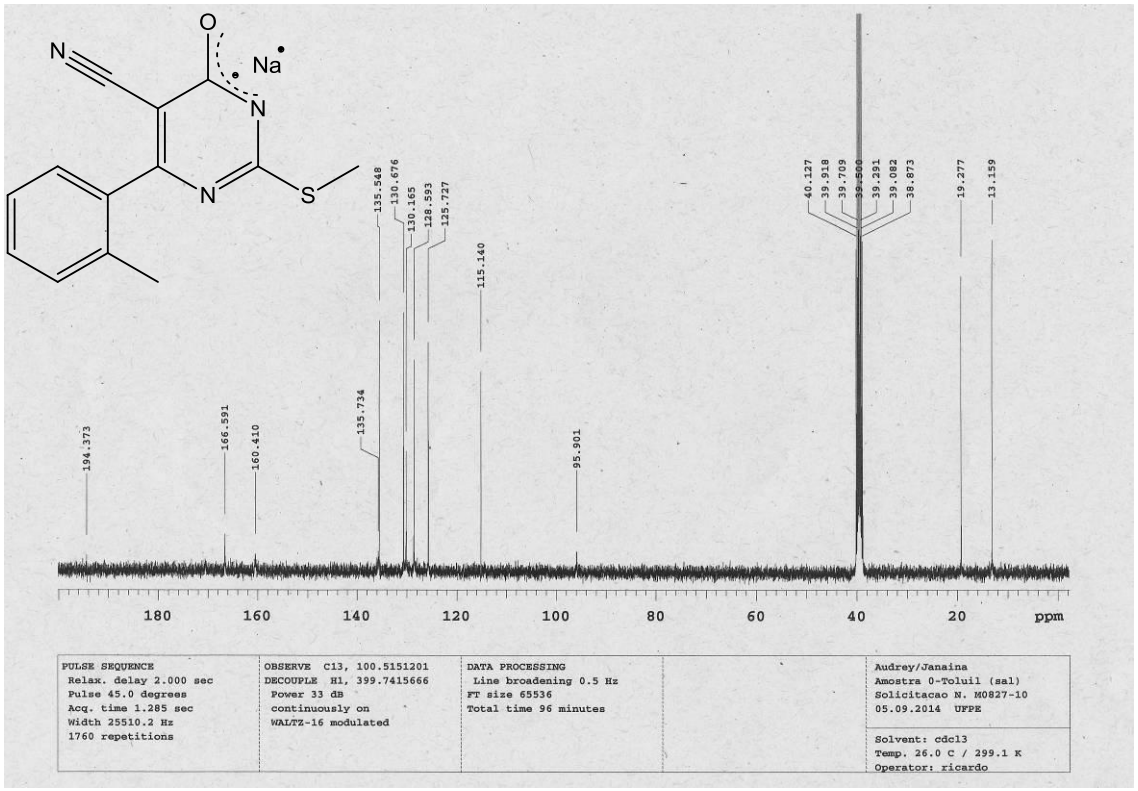

Figure S36. ^{13}C NMR spectrum (100 MHz, DMSO-d_6) of compound **5b**.

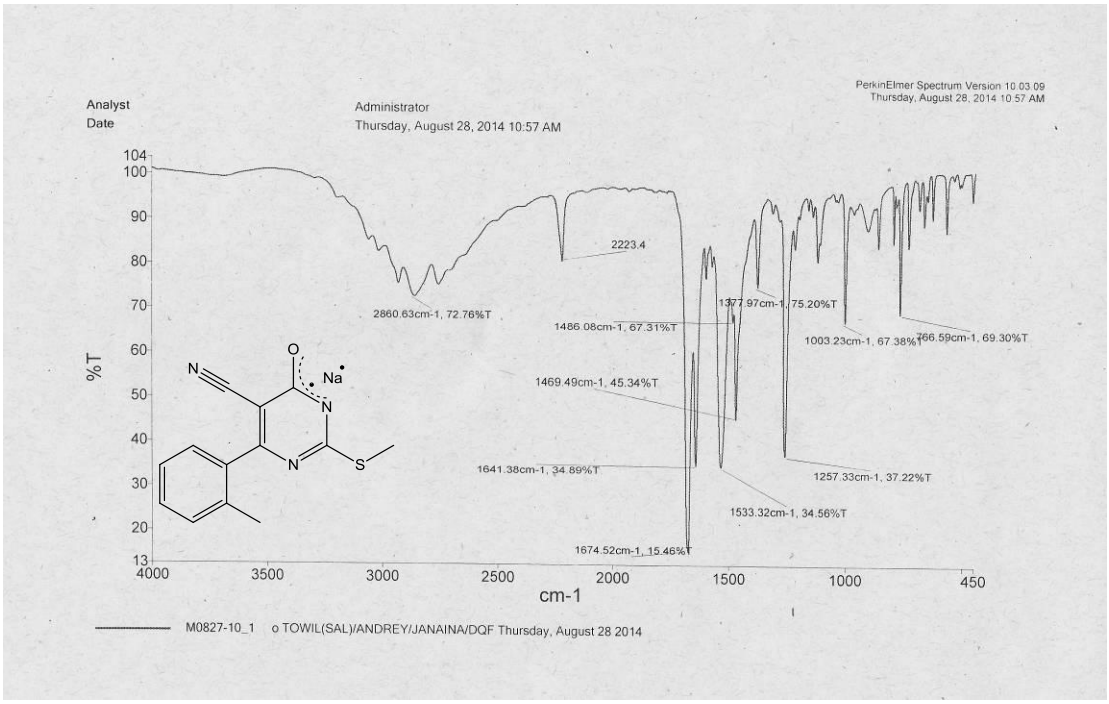

Figure S37. FTIR (KBr) spectrum of compound **5b**.

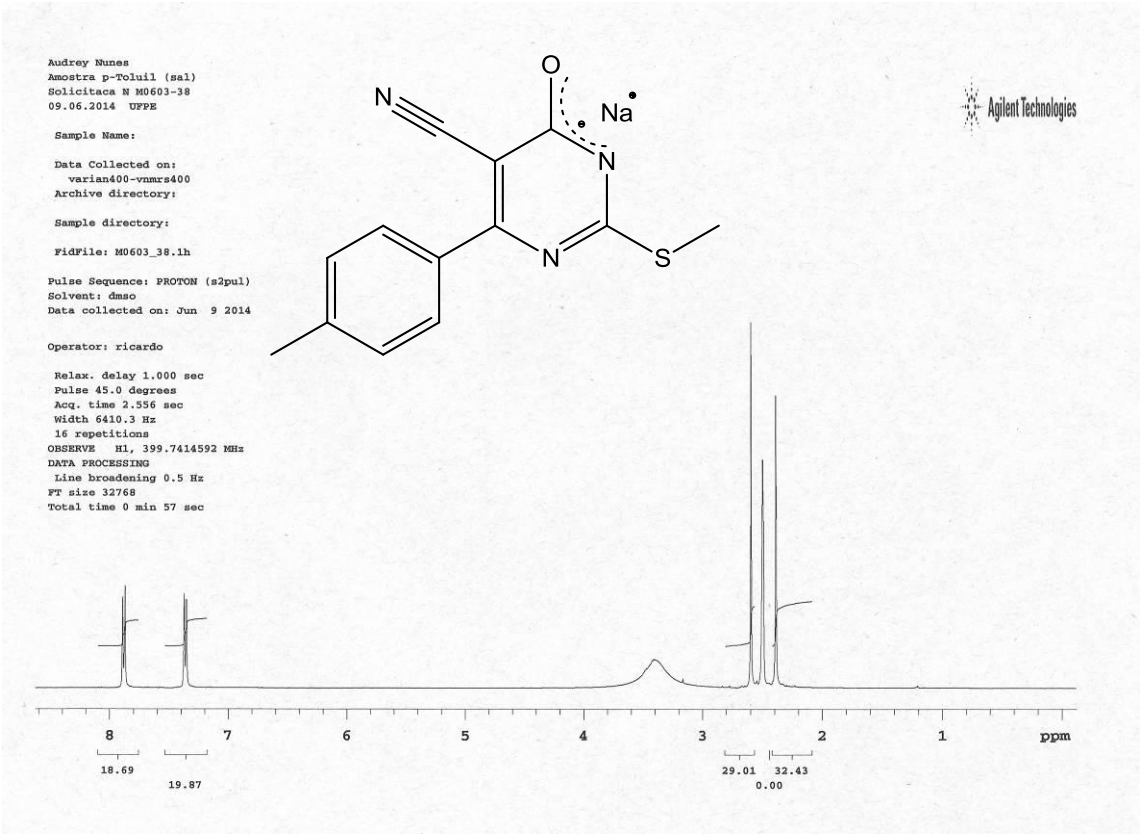

Figure S38. ^{1}H NMR spectrum (400 MHz, DMSO-d_6) of compound **5c**.

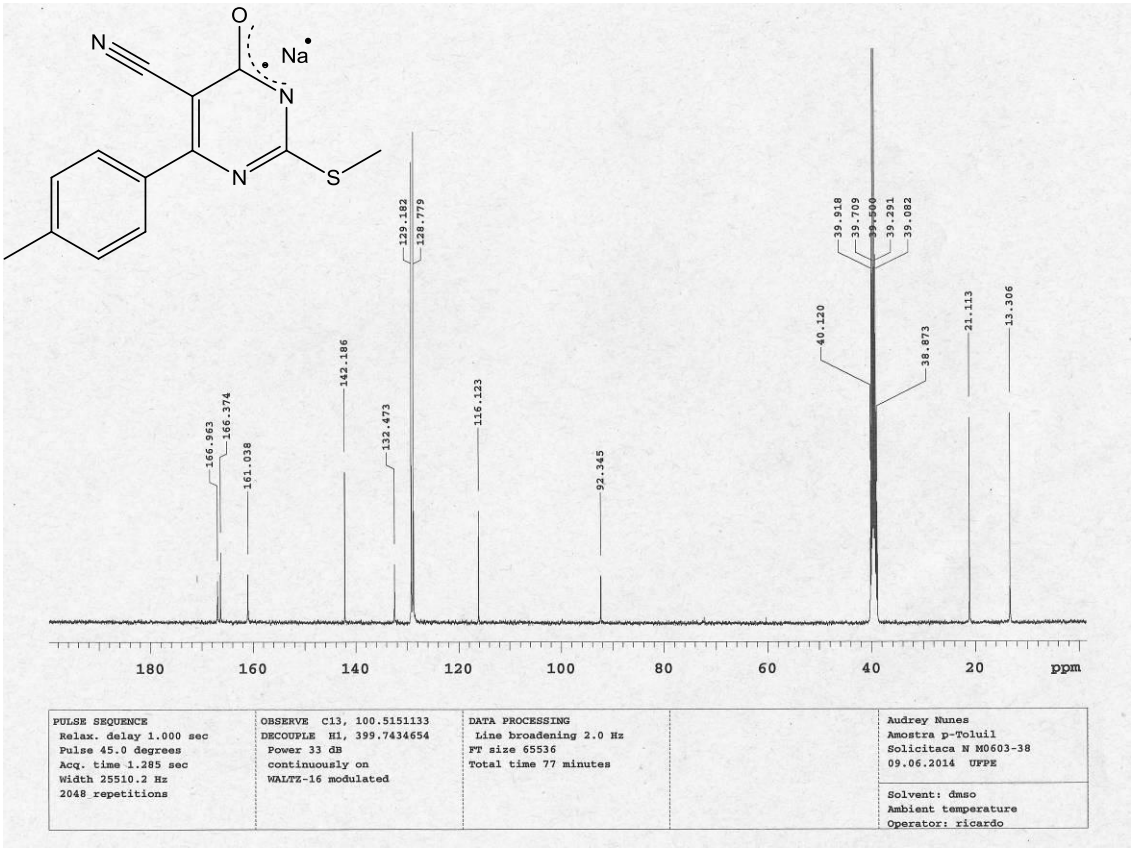

Figure S39. ^{13}C NMR spectrum (100 MHz, DMSO-d_6) of compound **5c**.

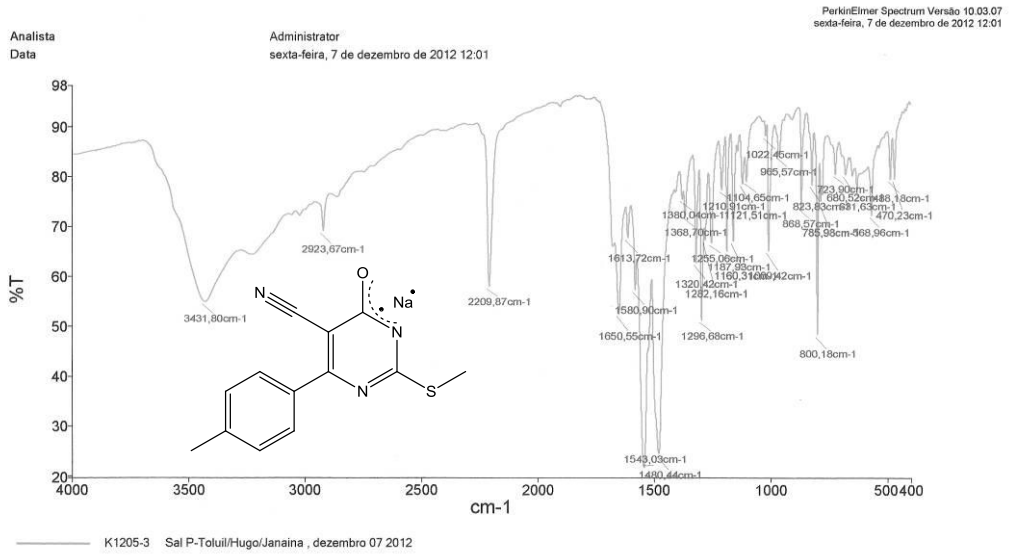

Figure S40. FTIR (KBr) spectrum of compound **5c**.

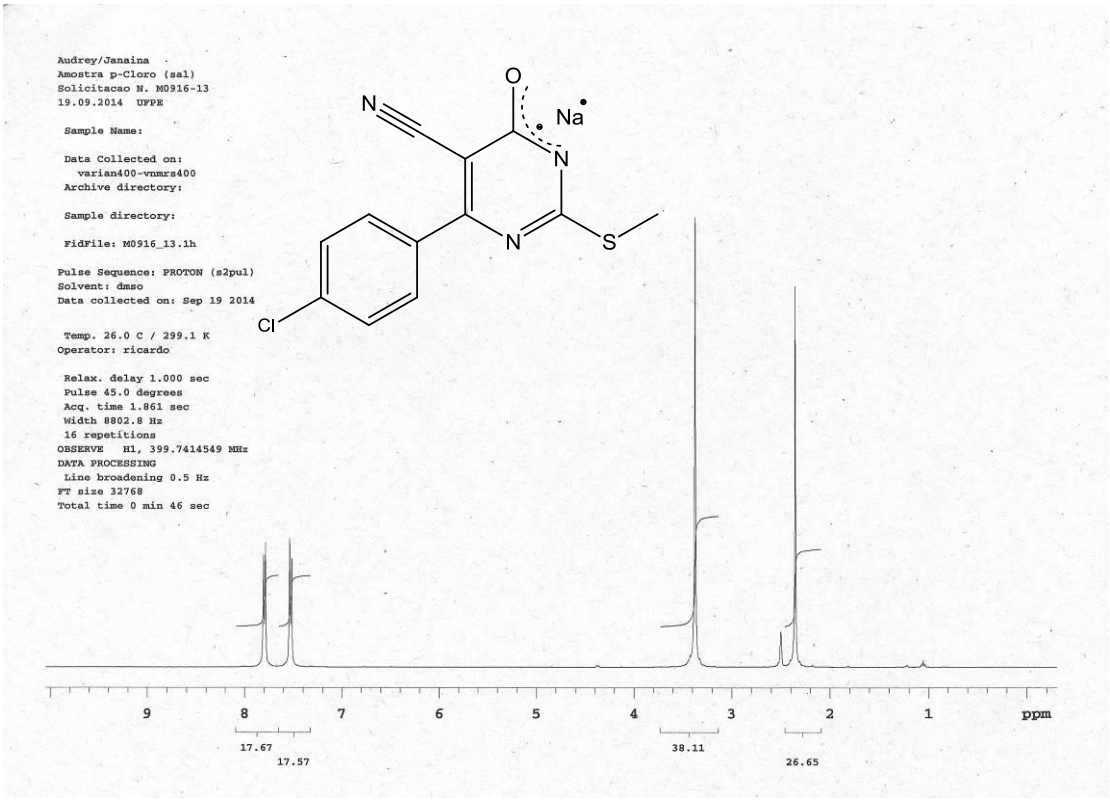

Figure S41. ^{1}H NMR spectrum (400 MHz, DMSO-d_6,) of compound **5d**.

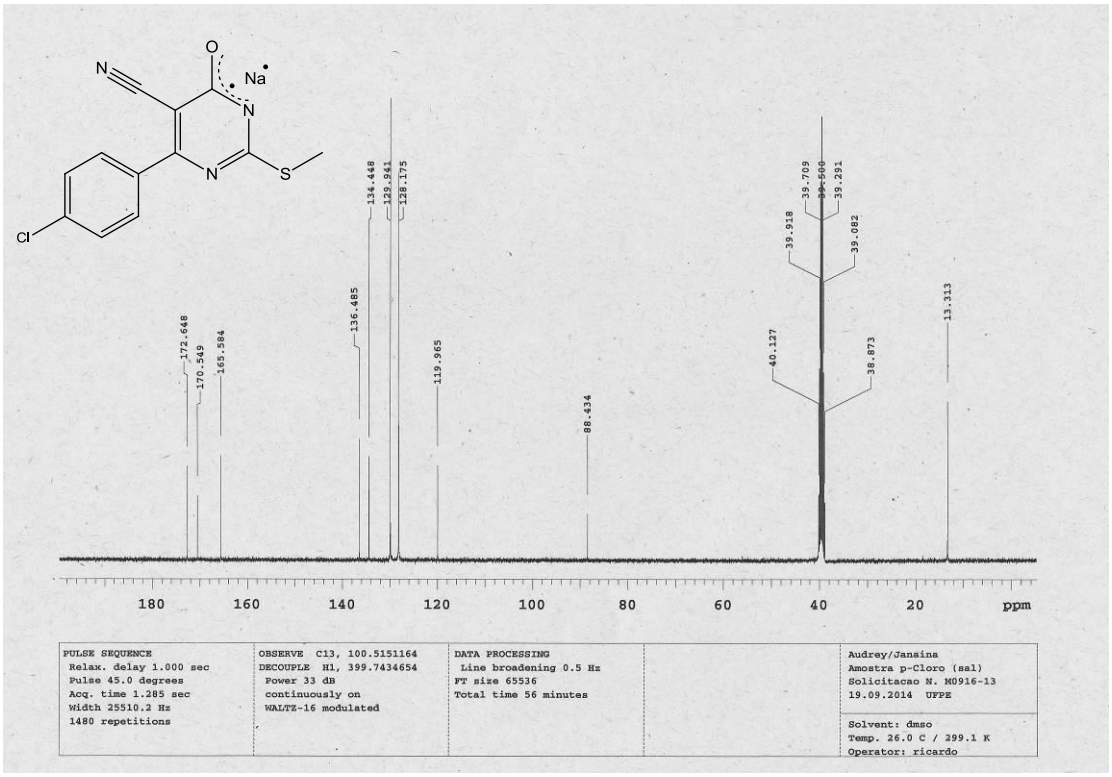

Figure S42. ^{13}C NMR spectrum (100 MHz, DMSO-d_6) of compound **5d**.

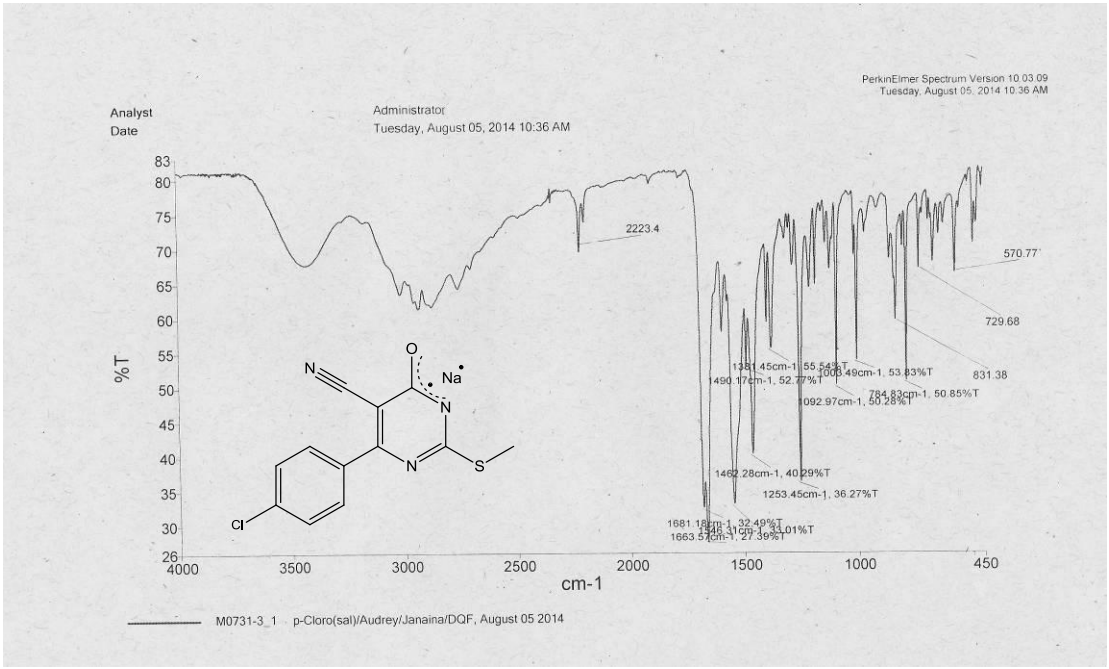

Figure S43. FTIR (KBr) spectrum of compound **5d**.

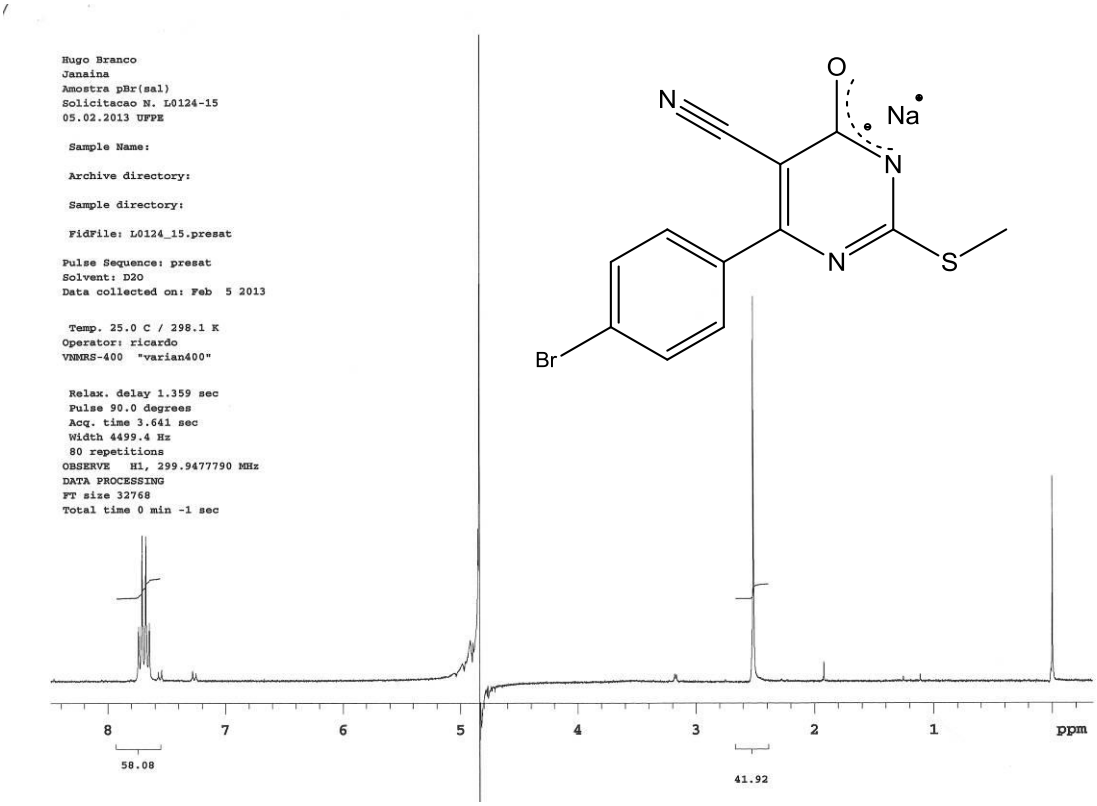

Figure S44. ^{1}H NMR spectrum (400 MHz, D_2O) of compound **5e**.

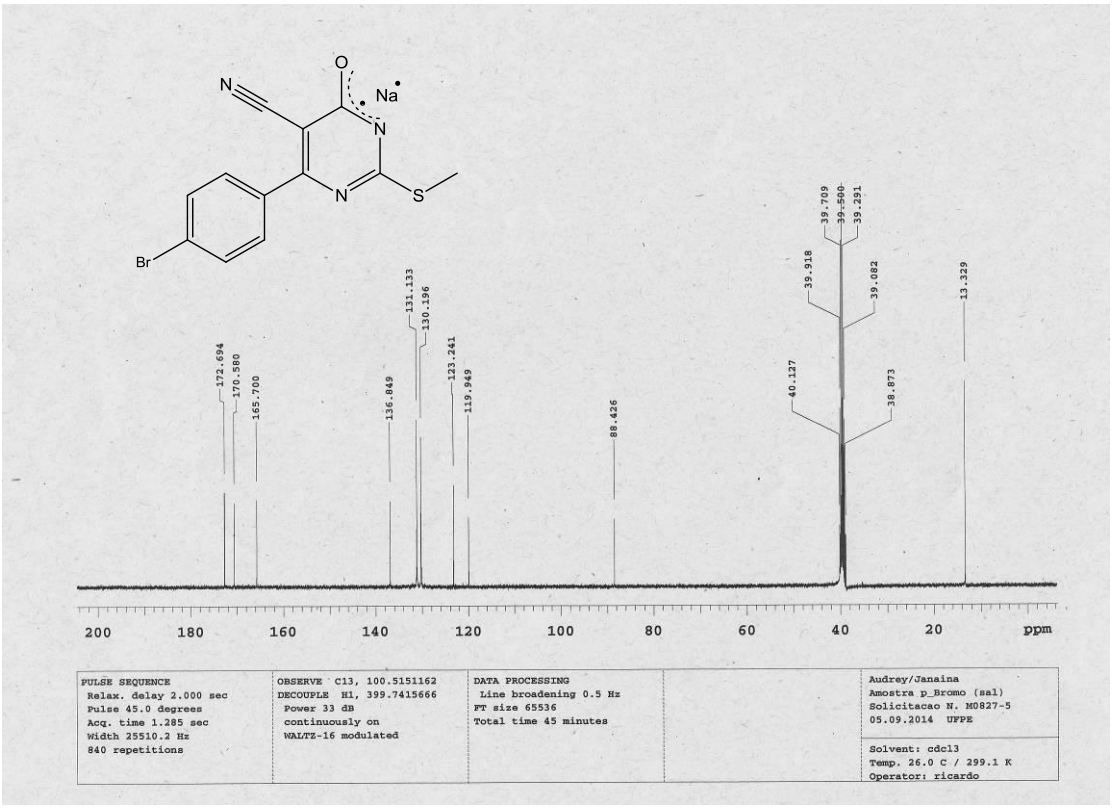

Figure S45. ^{13}C NMR spectrum (100 MHz, DMSO-d_6) of compound **5e**.

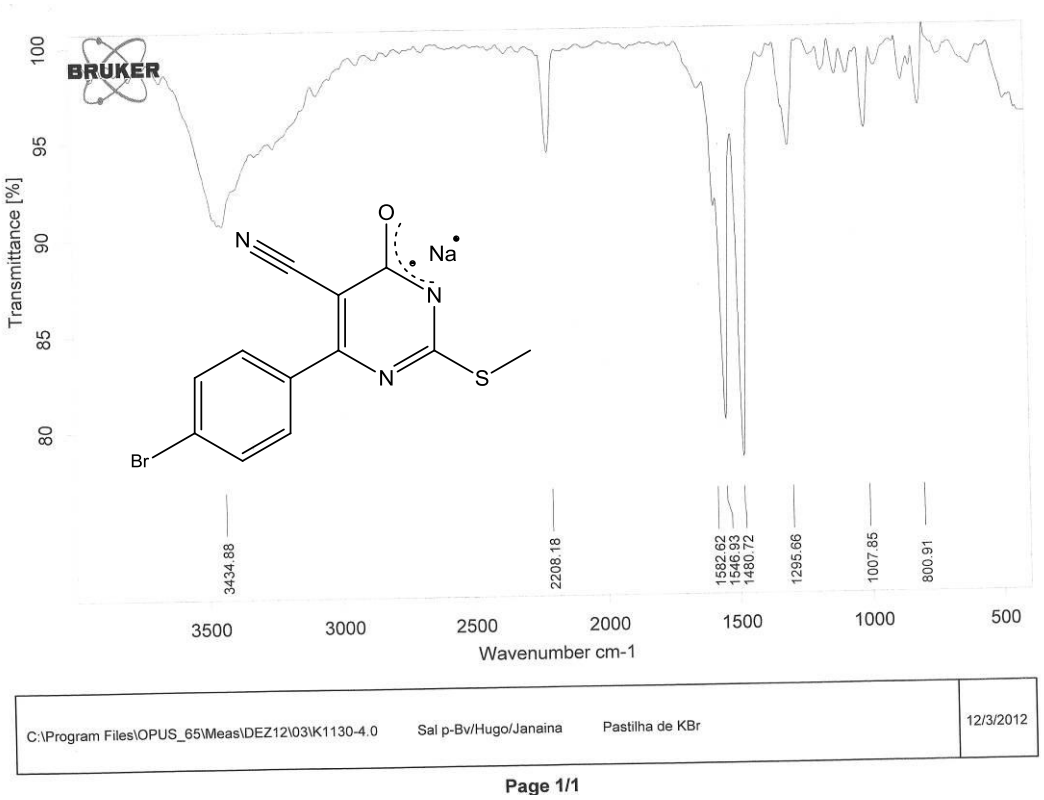

Figure S46. FTIR (KBr) spectrum of compound **5e**.

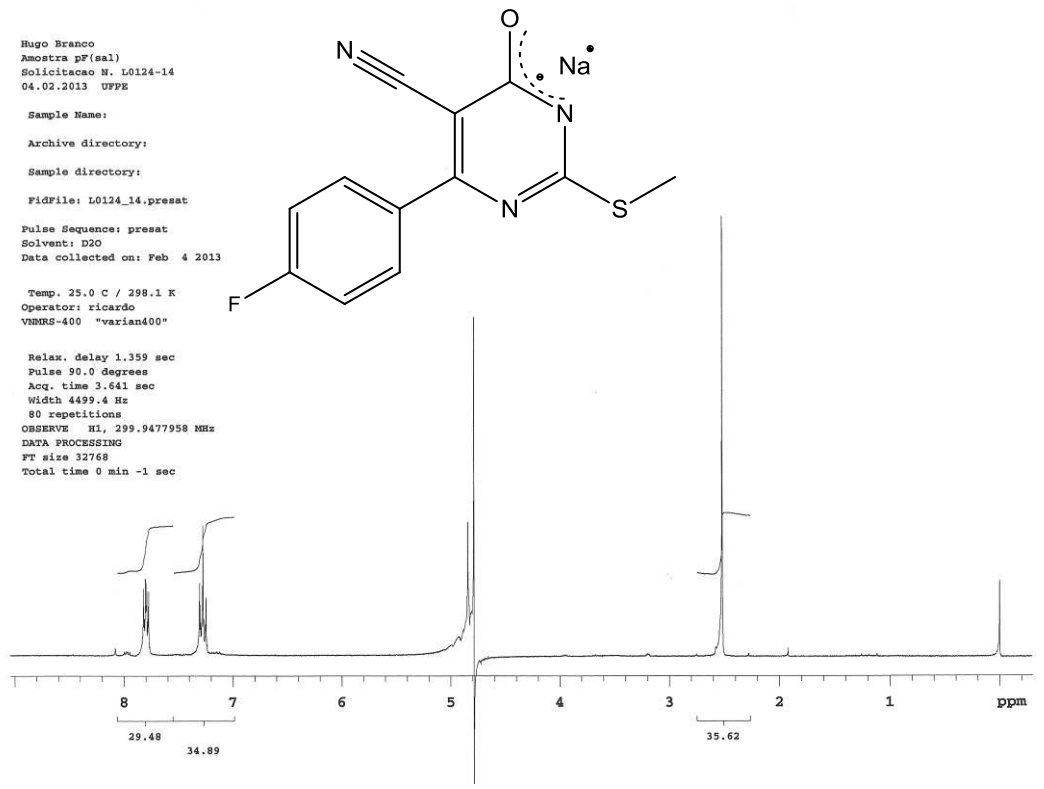

Figure S47. ^{1}H NMR spectrum (400 MHz, D_2O) of compound **5f**.

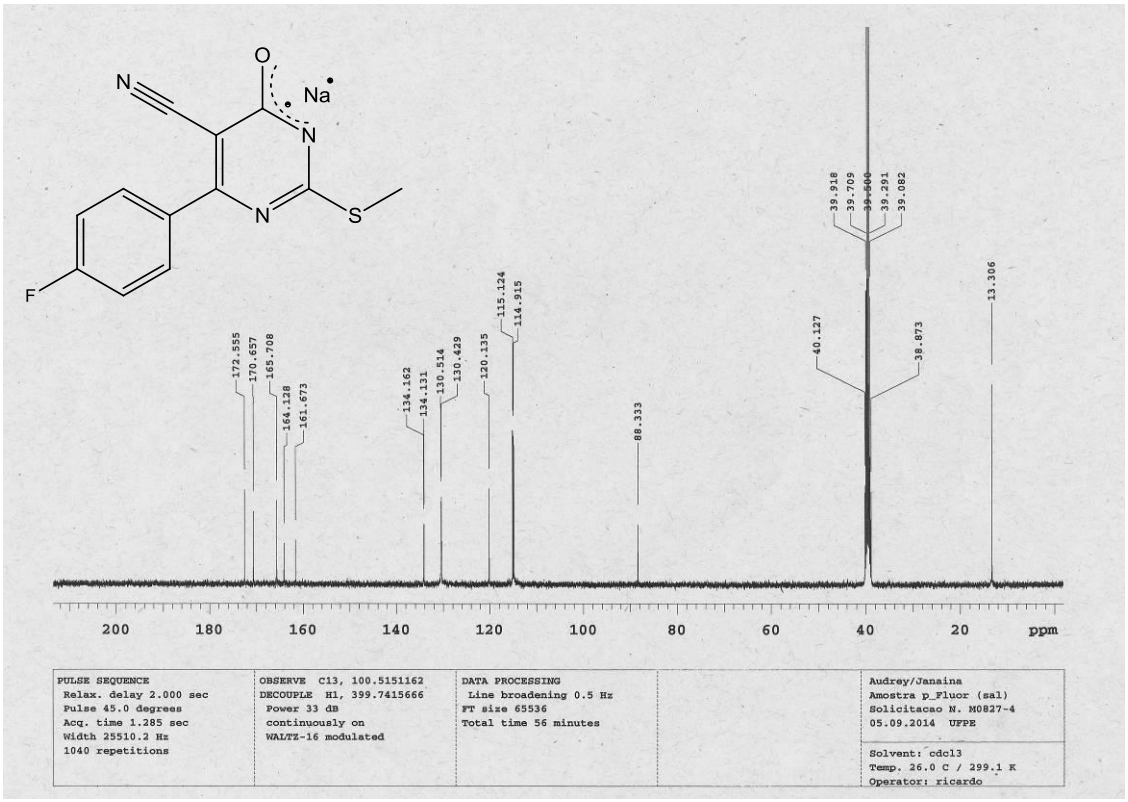

Figure S48. ^{13}C NMR spectrum (100 MHz, DMSO-d_6) of compound **5f**.

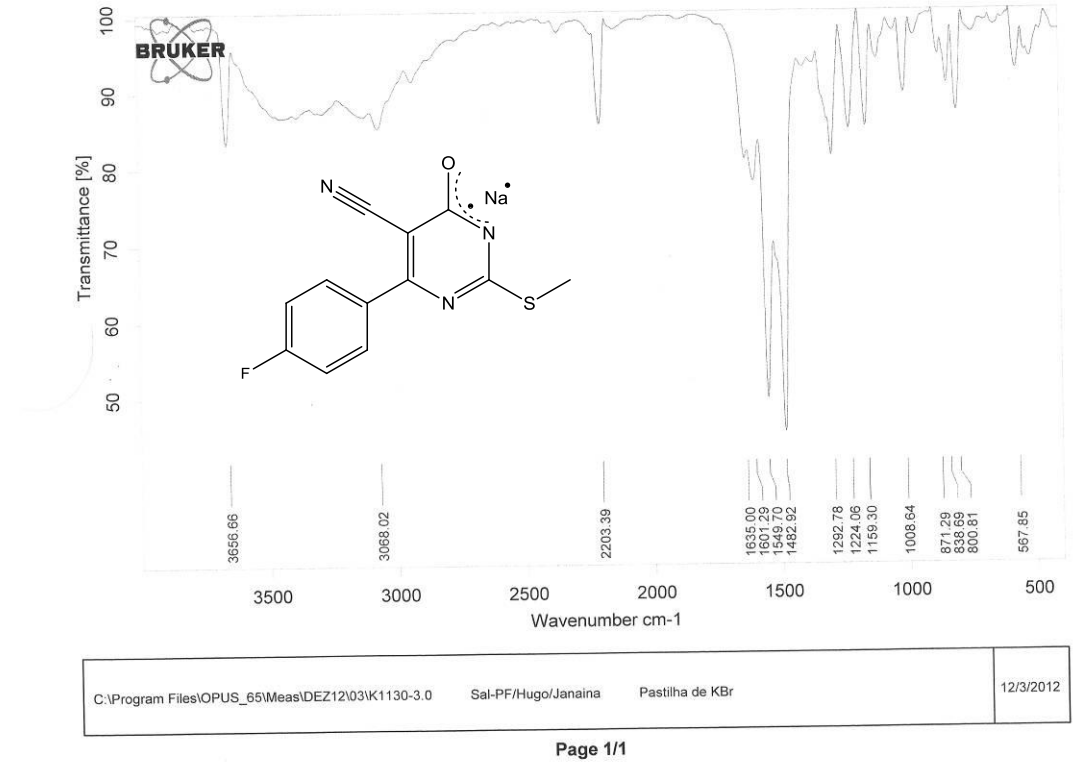

Figure S49. FTIR (KBr) spectrum of compound **5f**.

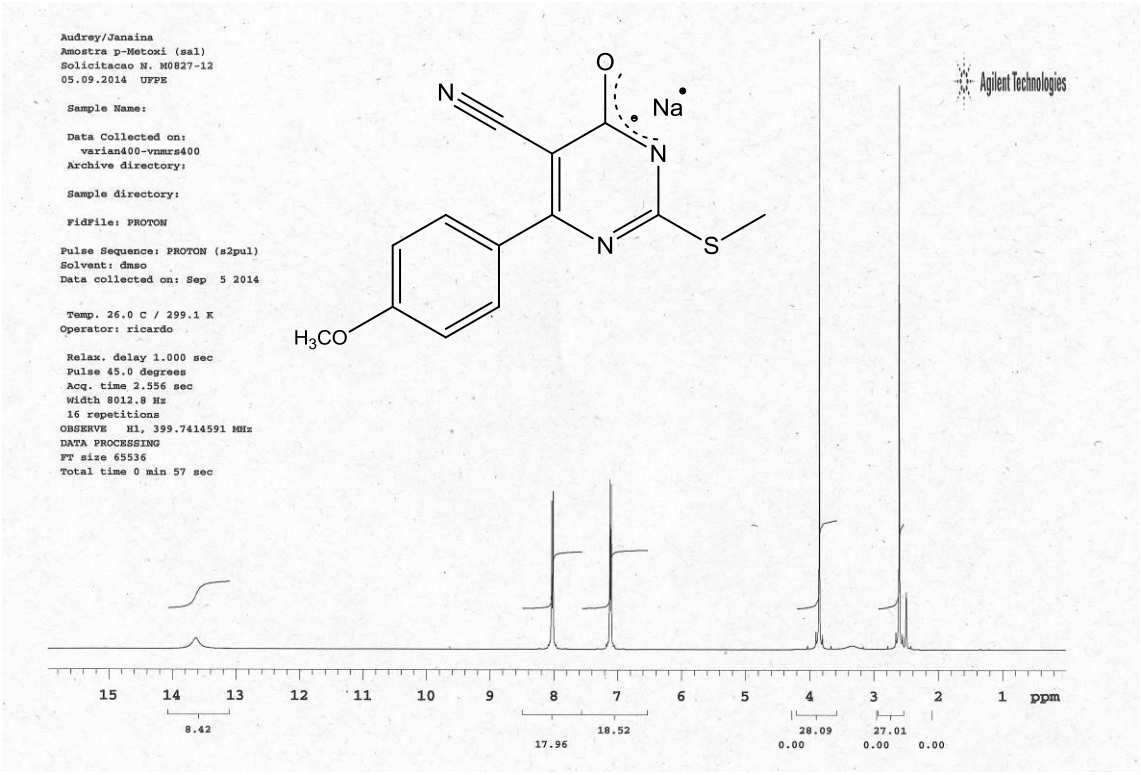

Figure S50. ^{1}H NMR spectrum (400 MHz, DMSO-d_6) of compound **5g**.

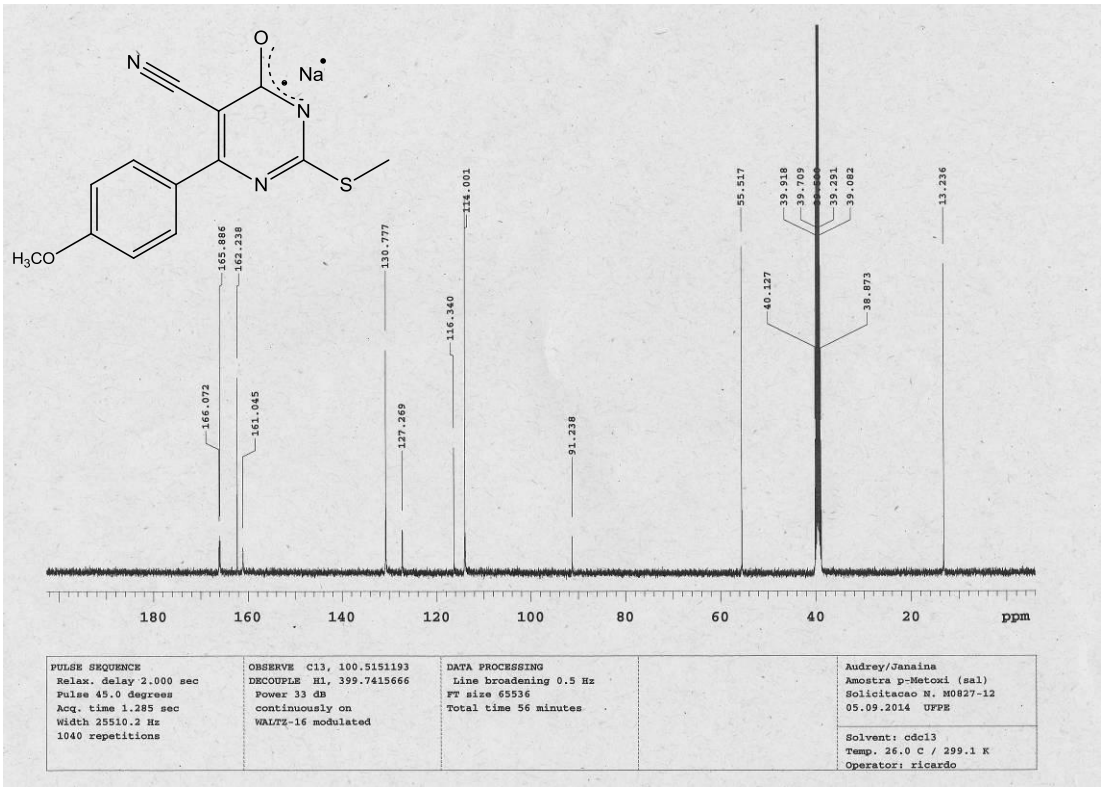

Figure S51. ^{13}C NMR spectrum (100 MHz, DMSO-d_6) of compound **5g**.

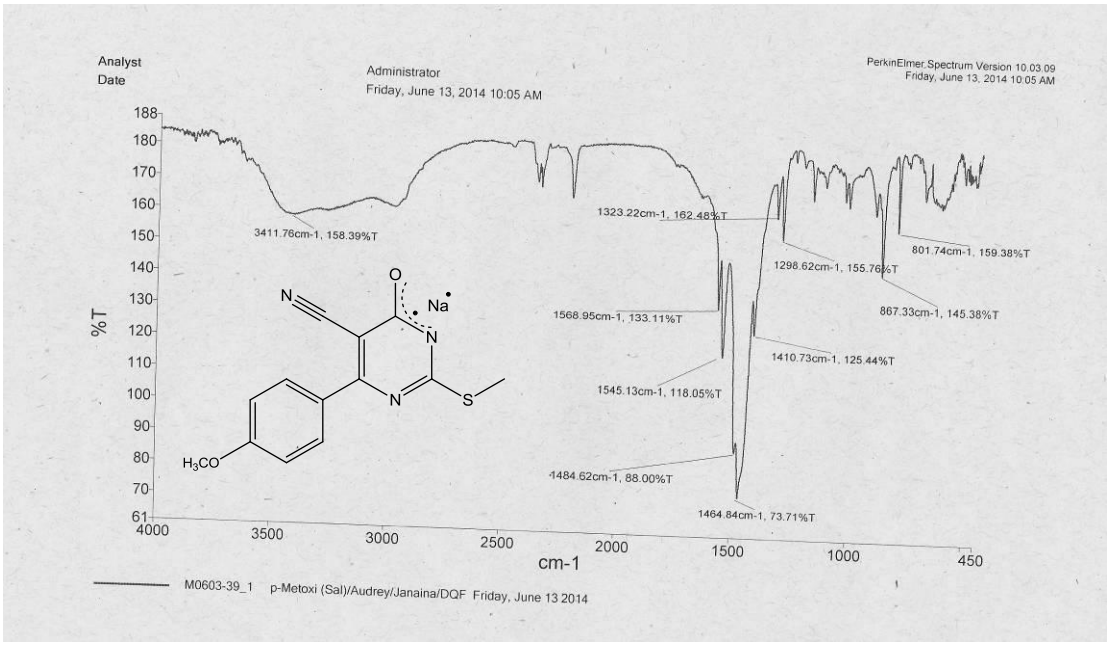

Figure S52. FTIR (KBr) spectrum of compound **5g**.

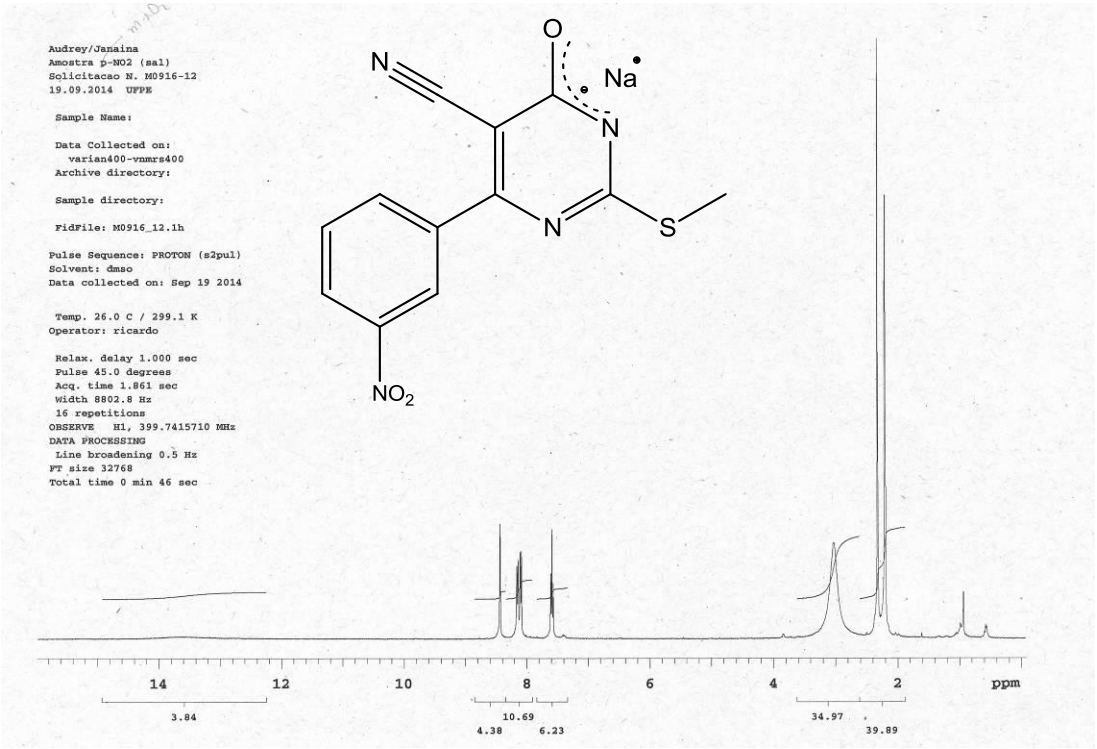

Figure S53. ^{1}H NMR spectrum (400 MHz, DMSO-d_6) of compound **5h**.

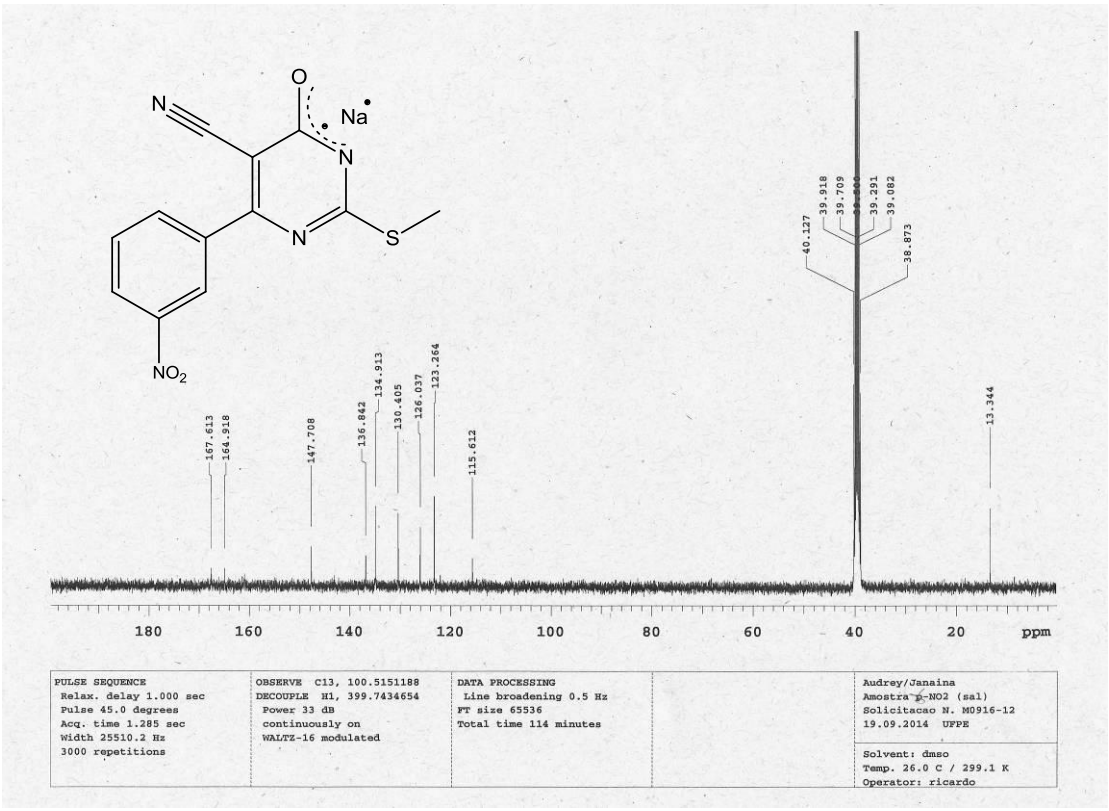

Figure S54. ^{13}C NMR spectrum (100 MHz, DMSO-d_6) of compound **5h**.

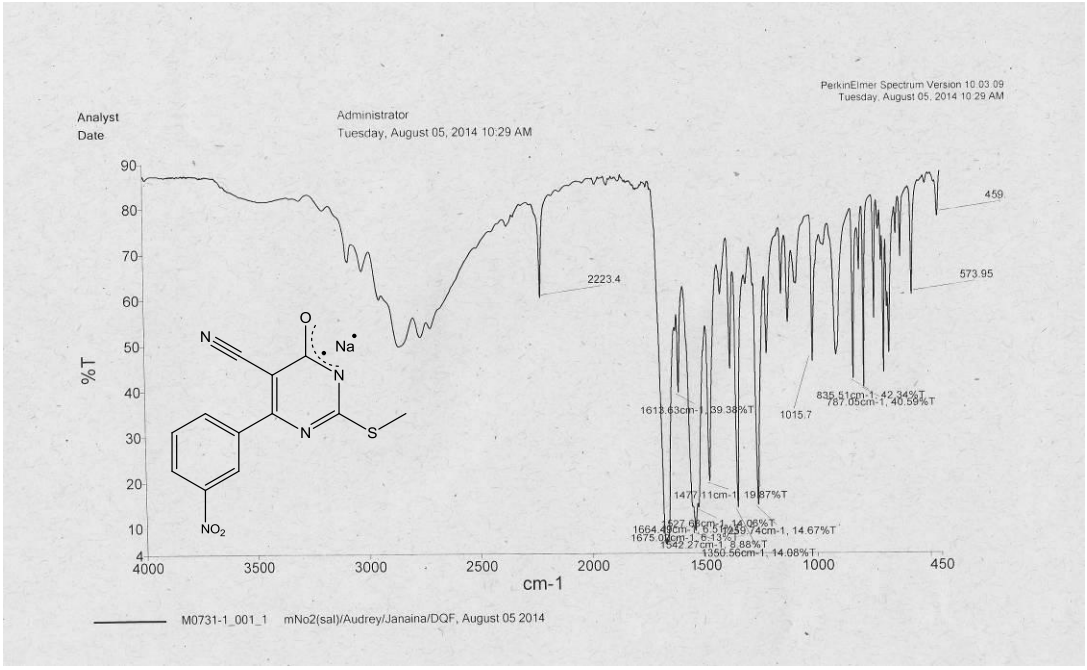

Figure S55. FTIR (KBr) spectrum of compound **5h**.

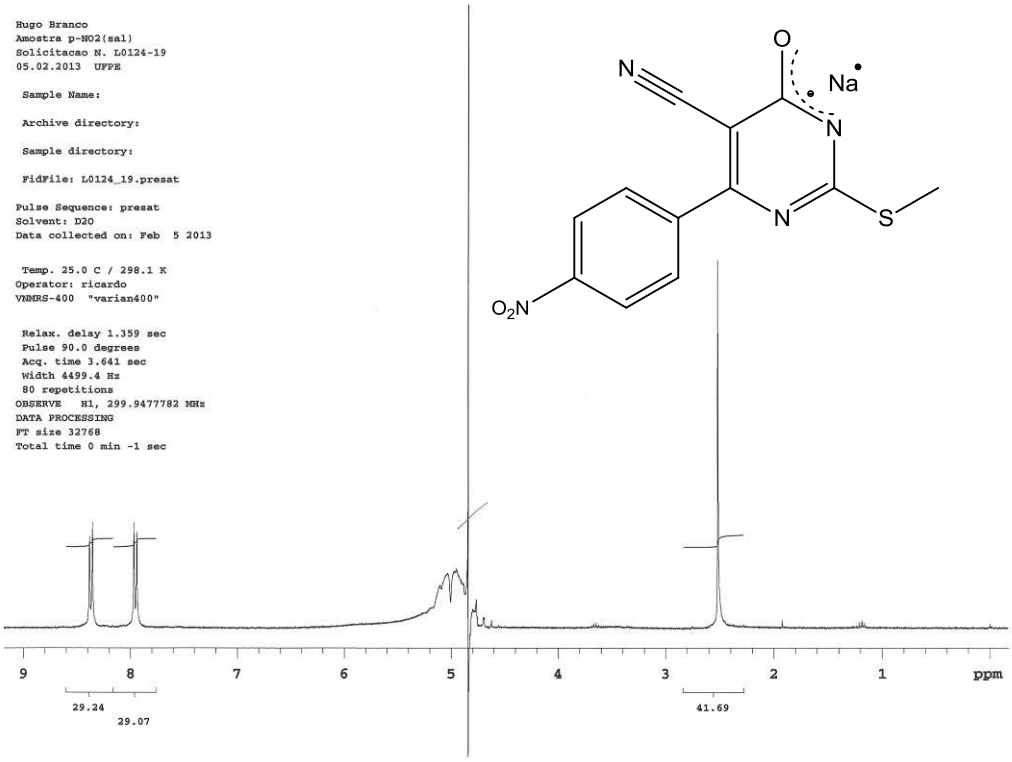

Figure S56. ^{1}H NMR spectrum (400 MHz, D_2O) of compound **5i**.

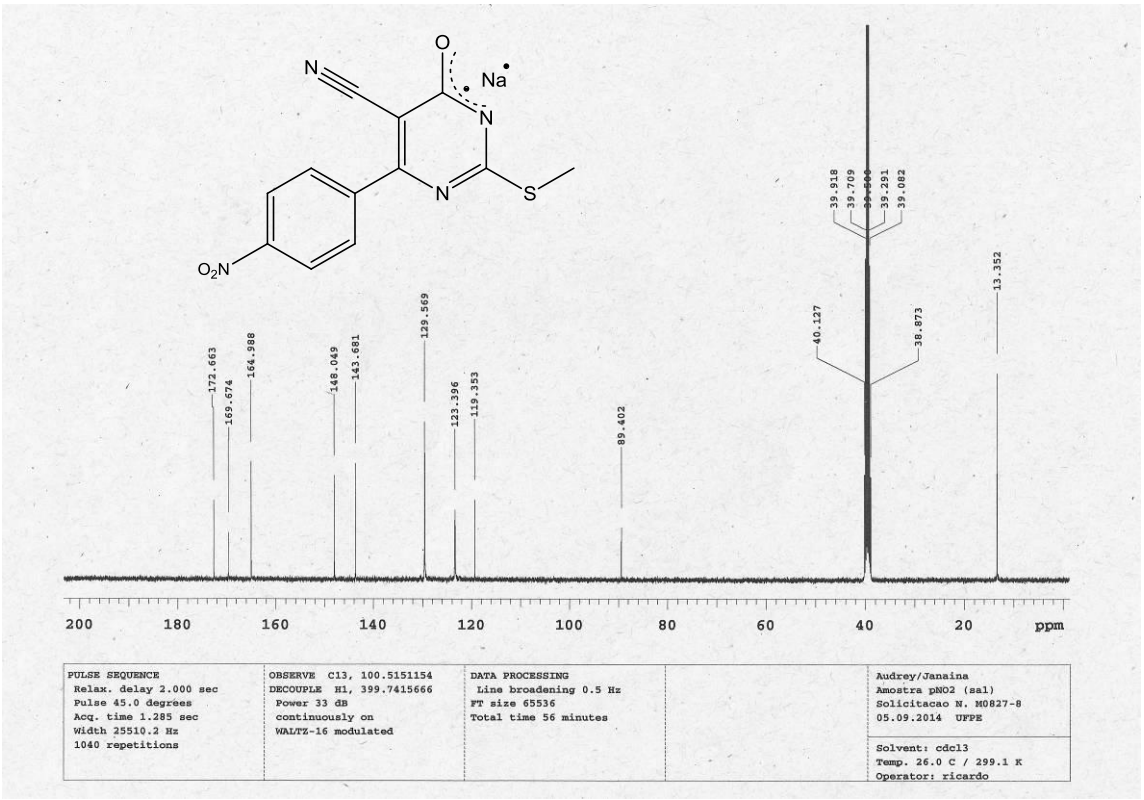

Figure S57. ^{13}C NMR spectrum (100 MHz, DMSO-d_6) of compound **5i**.

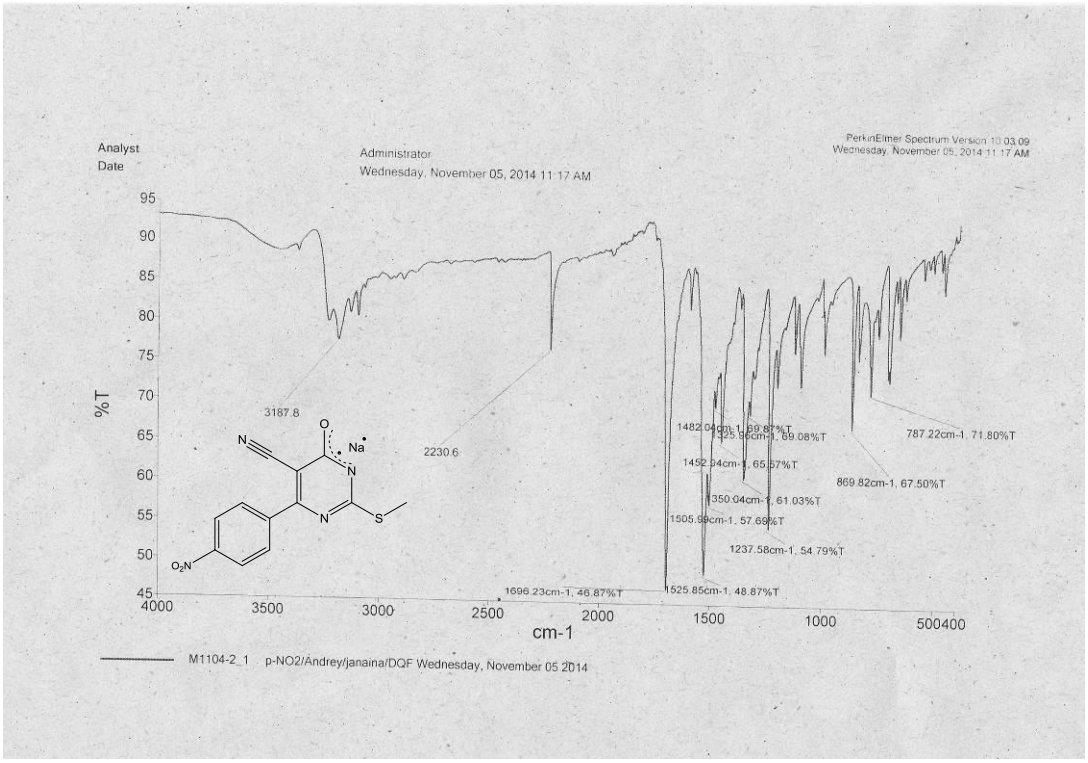

Figure S58. FTIR (KBr) spectrum of compound **5i**.

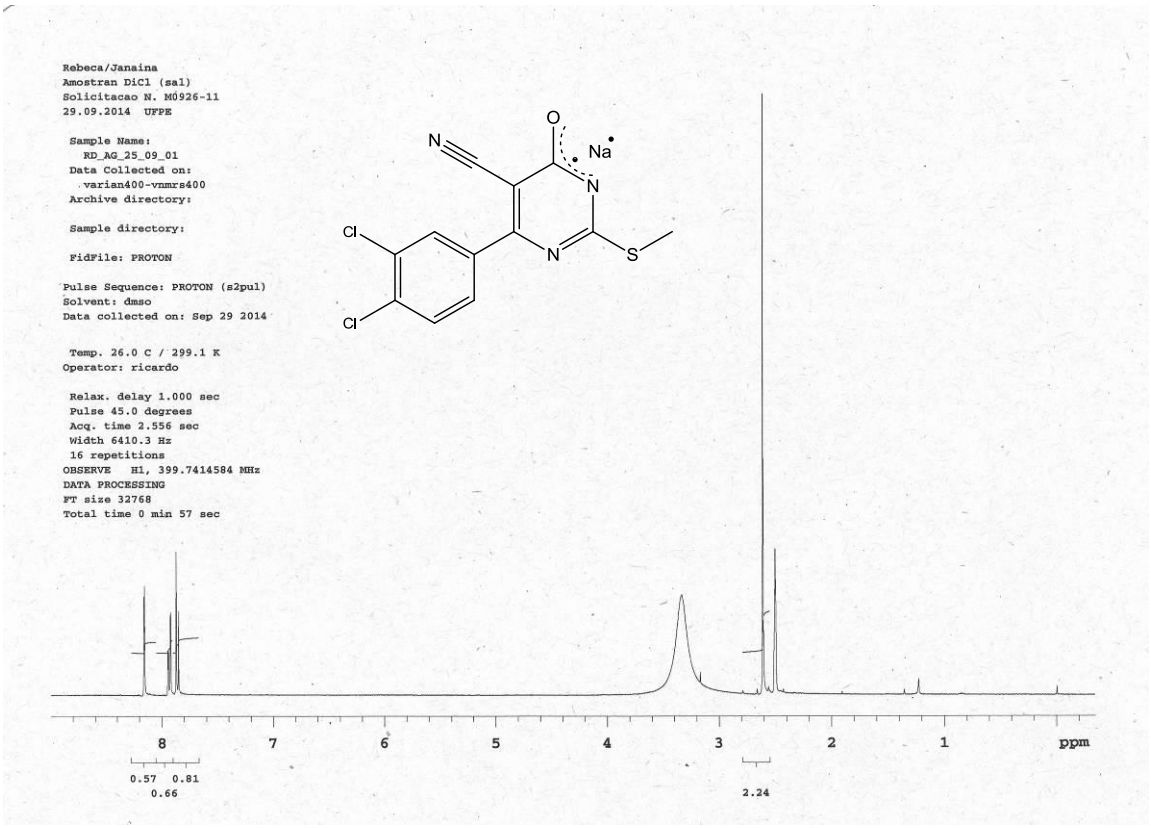

Figure S59. ^{1}H NMR spectrum (400 MHz, DMSO-d_6) of compound **5j**.

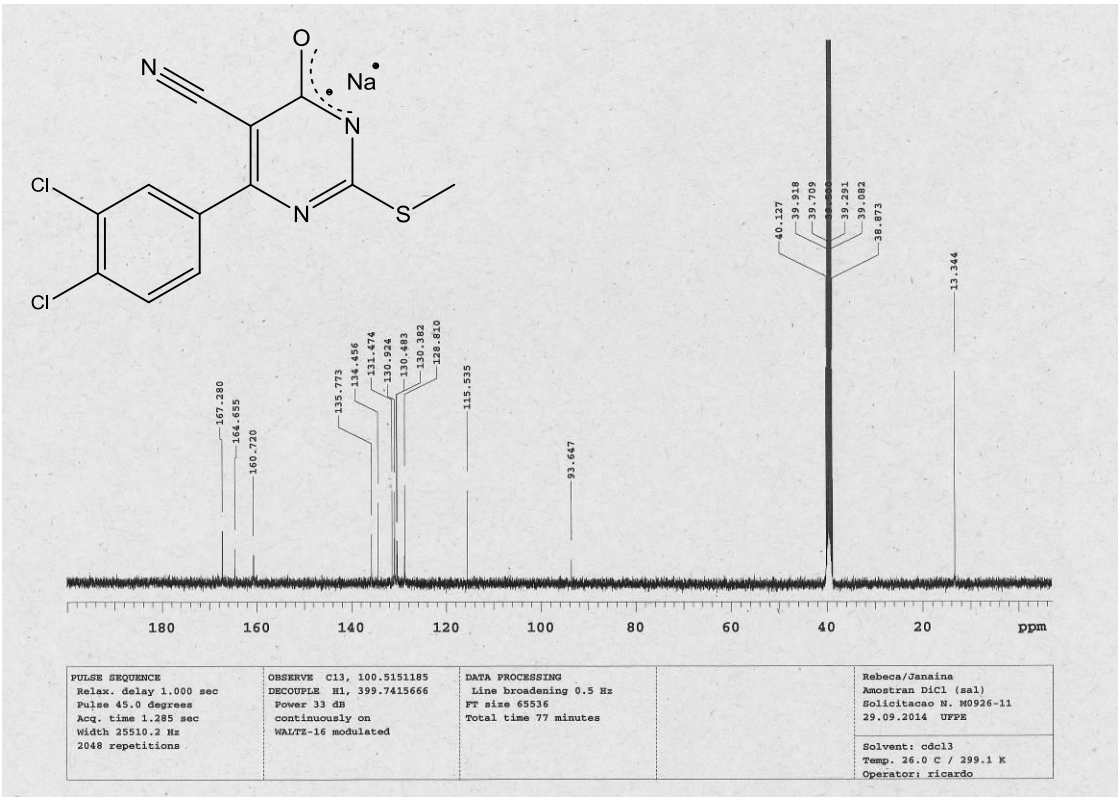

Figure S60. ^{13}C NMR spectrum (100 MHz, DMSO-d_6) of compound **5j**.

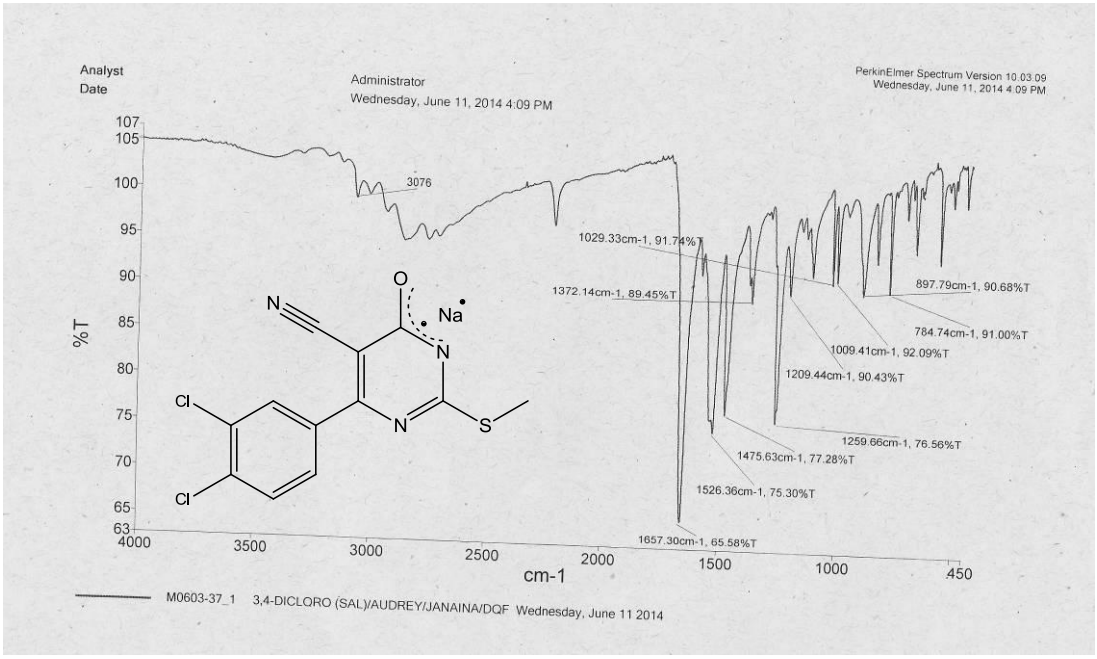

Figure S61. FTIR (KBr) spectrum of compound **5j**.