

Supplementary Materials: Synthesis of Bioactive 2-(Arylamino)thiazolo[5,4-f]quinazolin-9-ones via Hügershoff Reaction or Cu Catalyzed Intramolecular C-S Bond Formation

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^1H and ^{13}C -NMR Spectra of Compounds 2-6, 7a-l, 8a-m, 10a and 10l, 11-13, 14a-f, 15, 16 and 17a-d

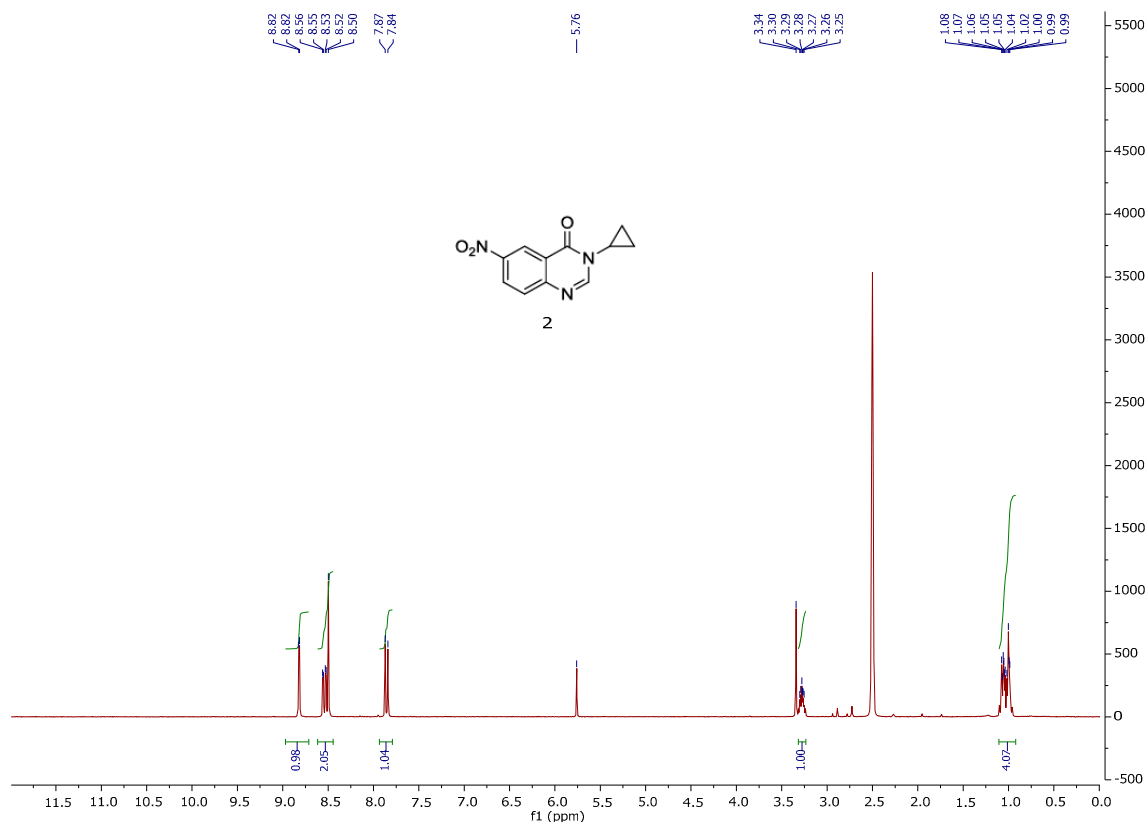
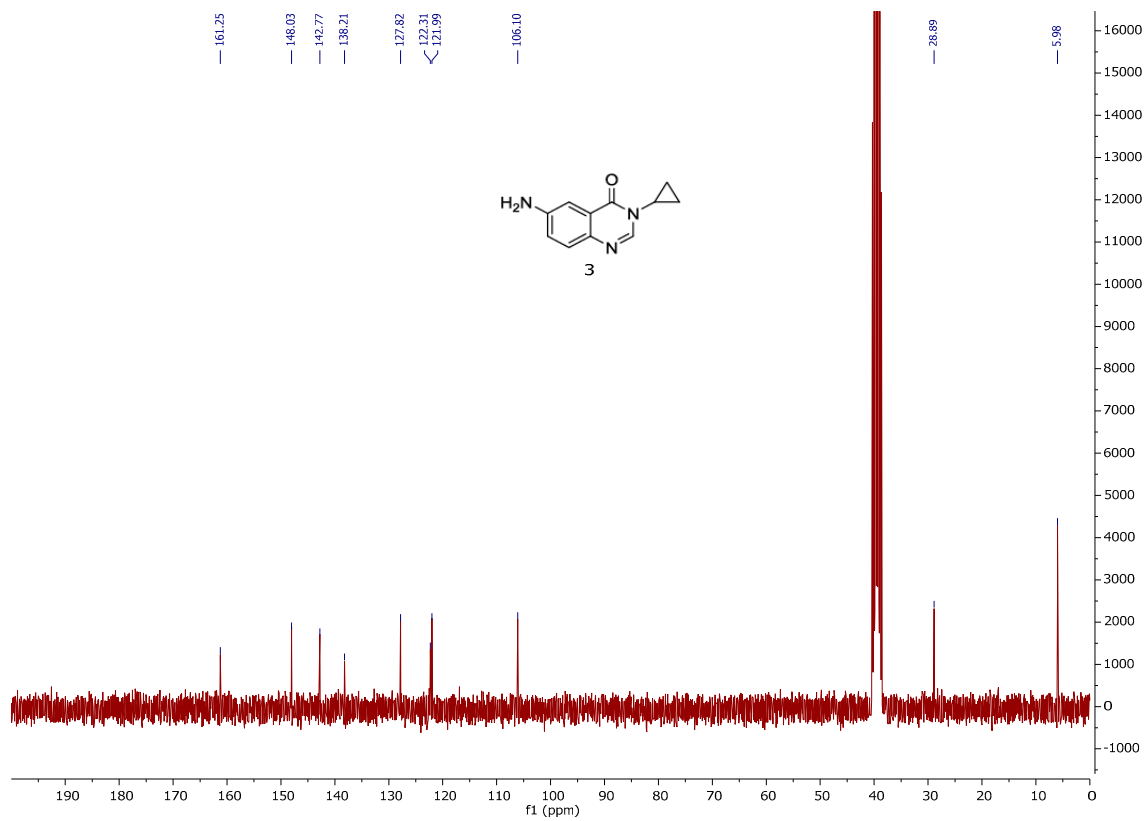
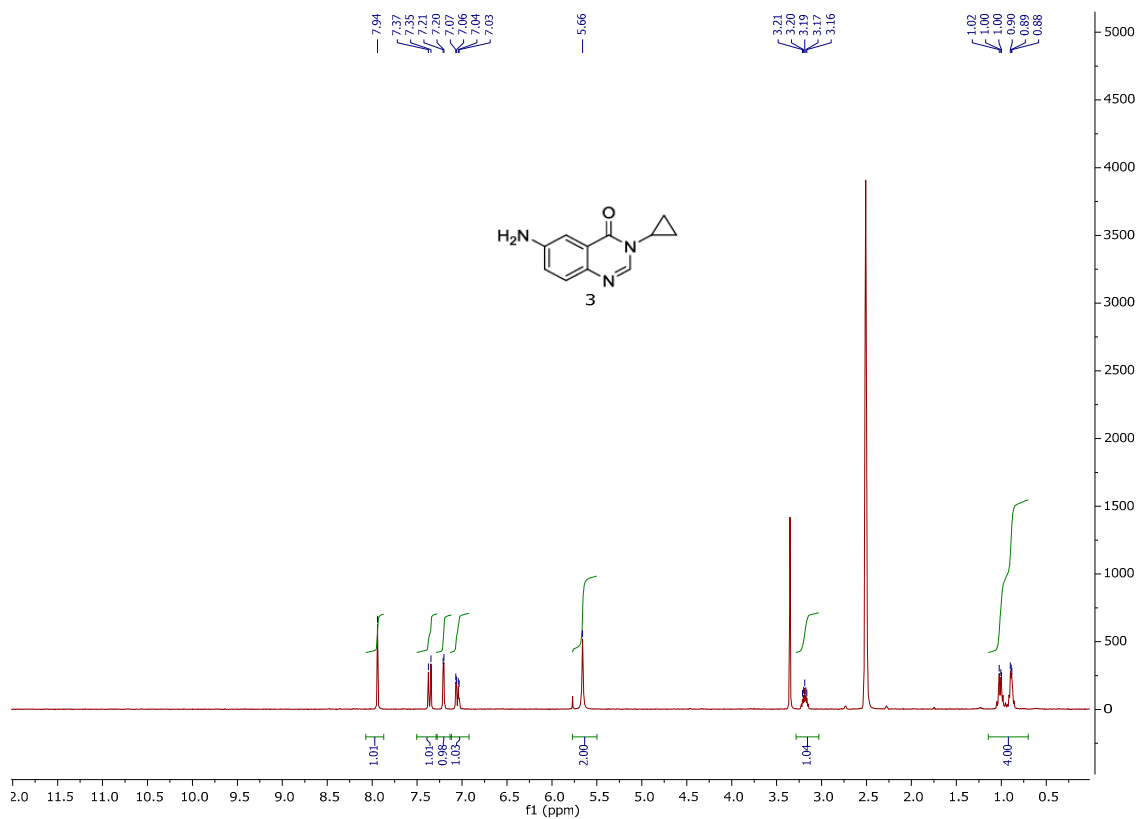


Figure S1. ^1H -NMR Compound 2.



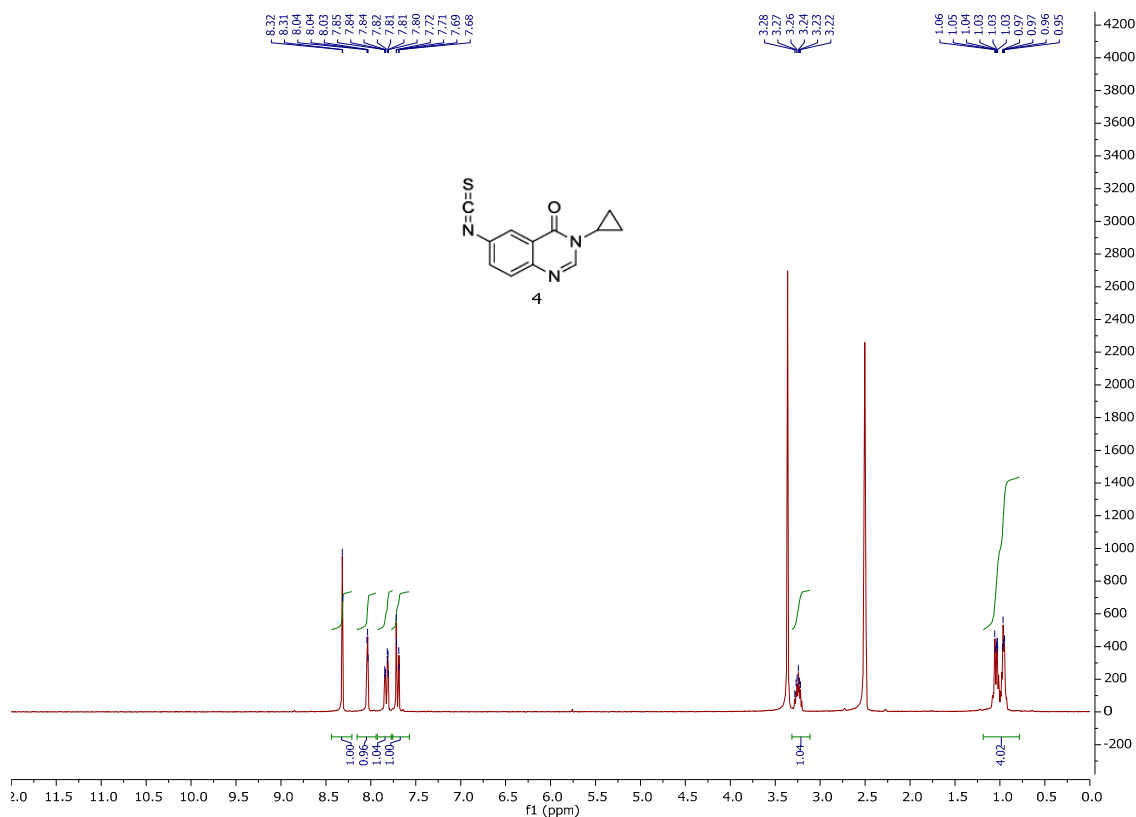
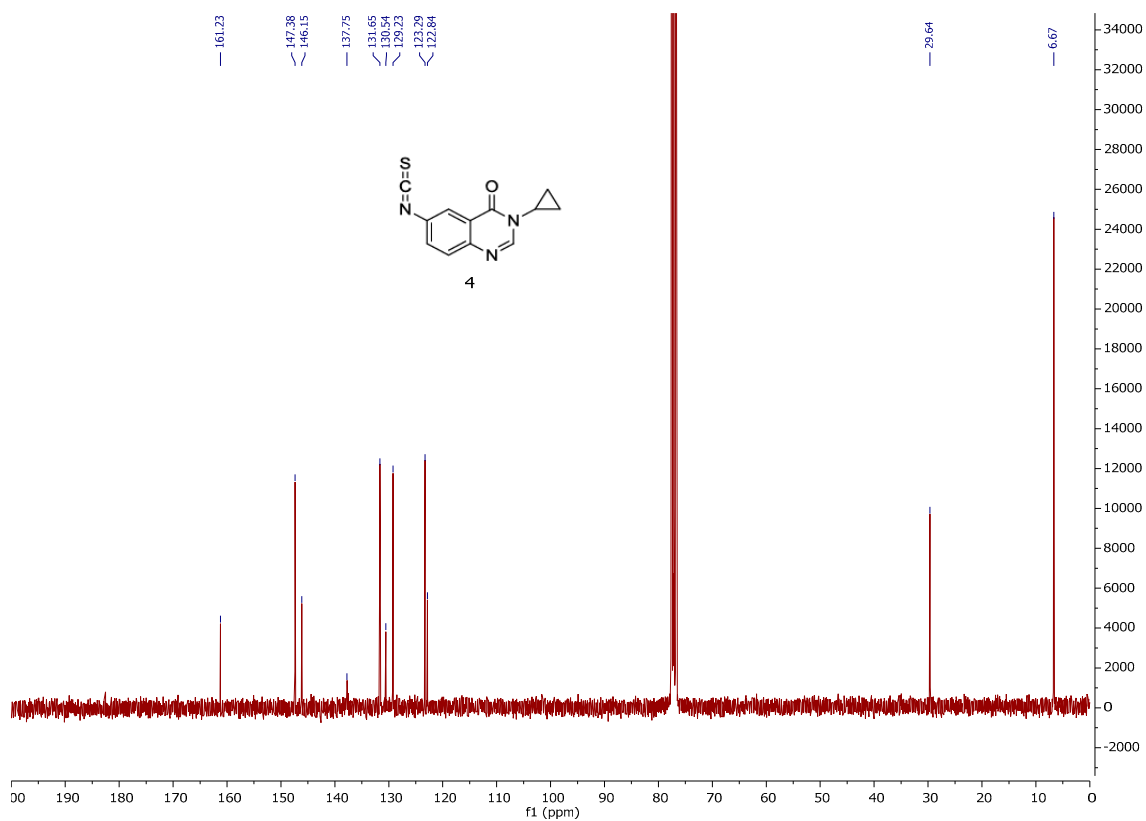
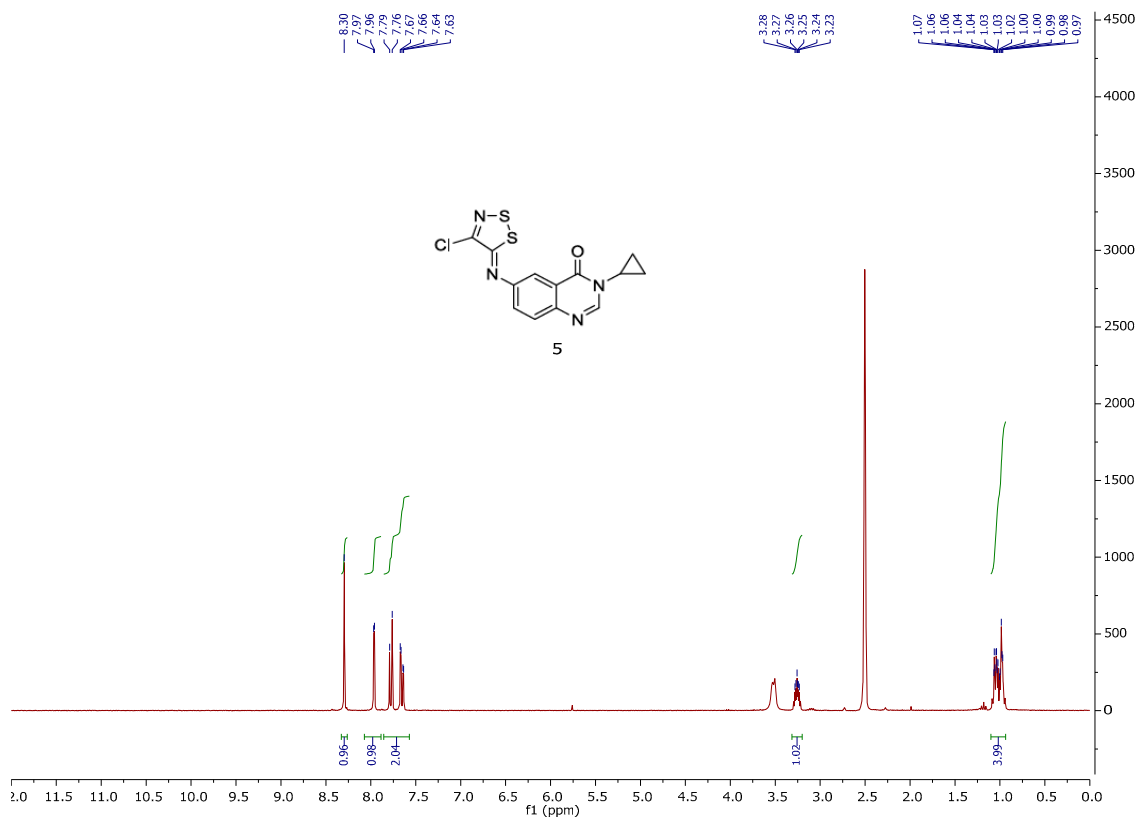
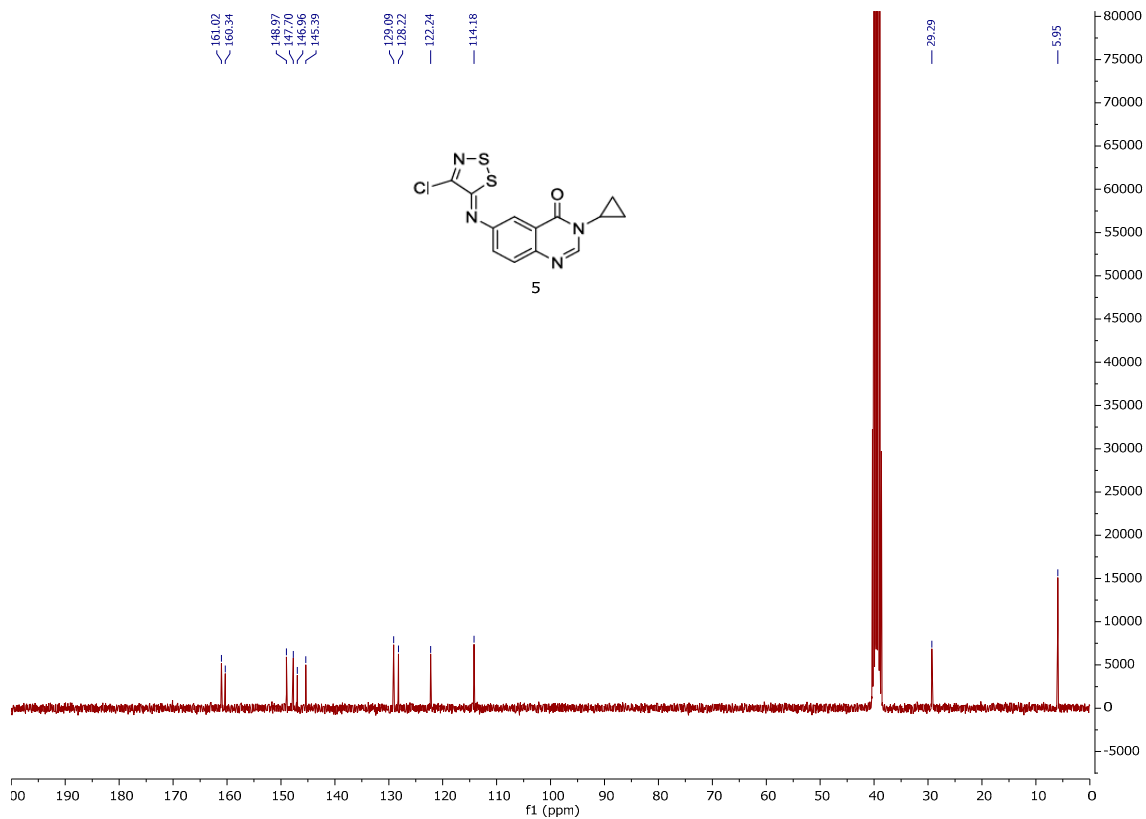
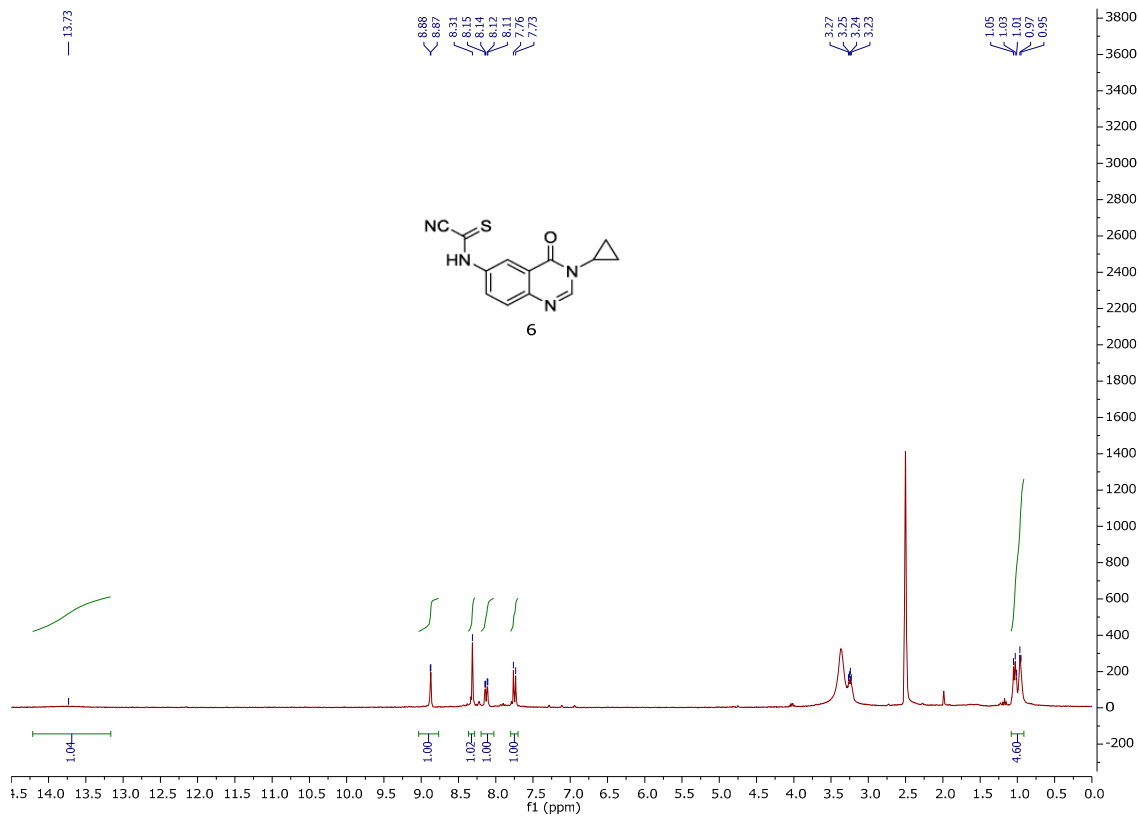
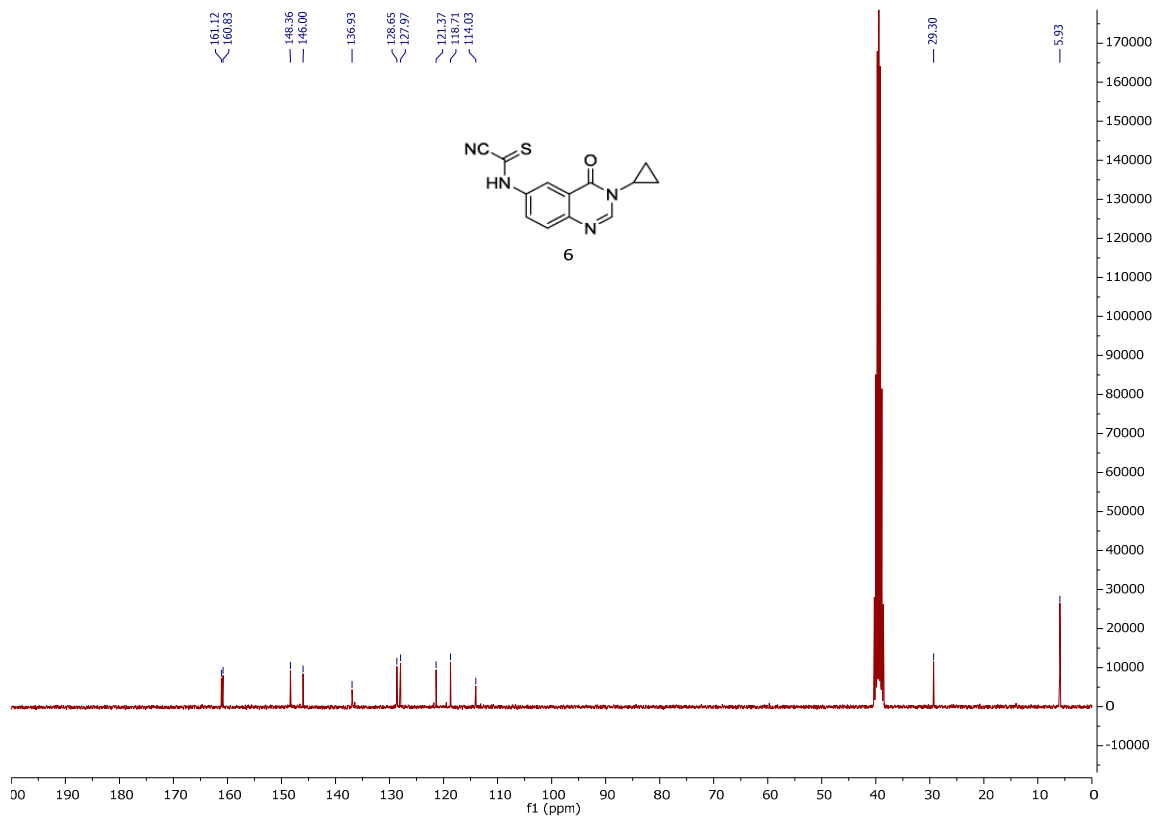
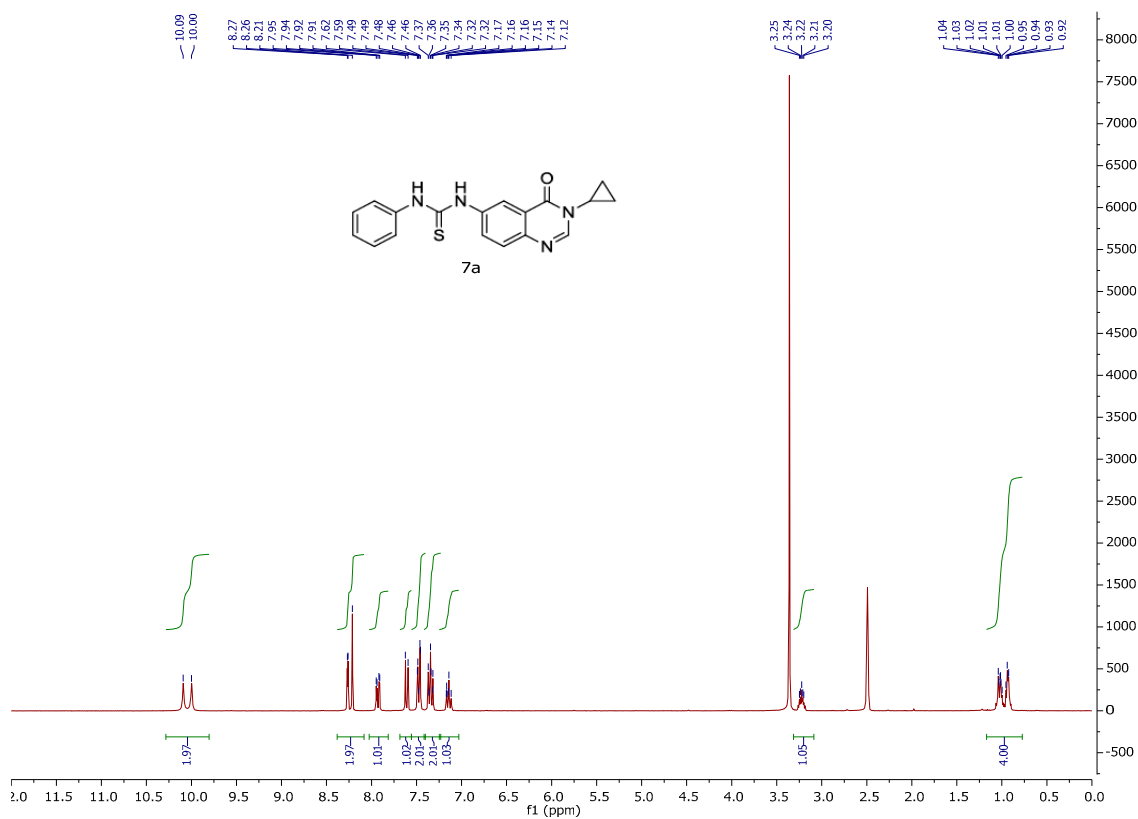
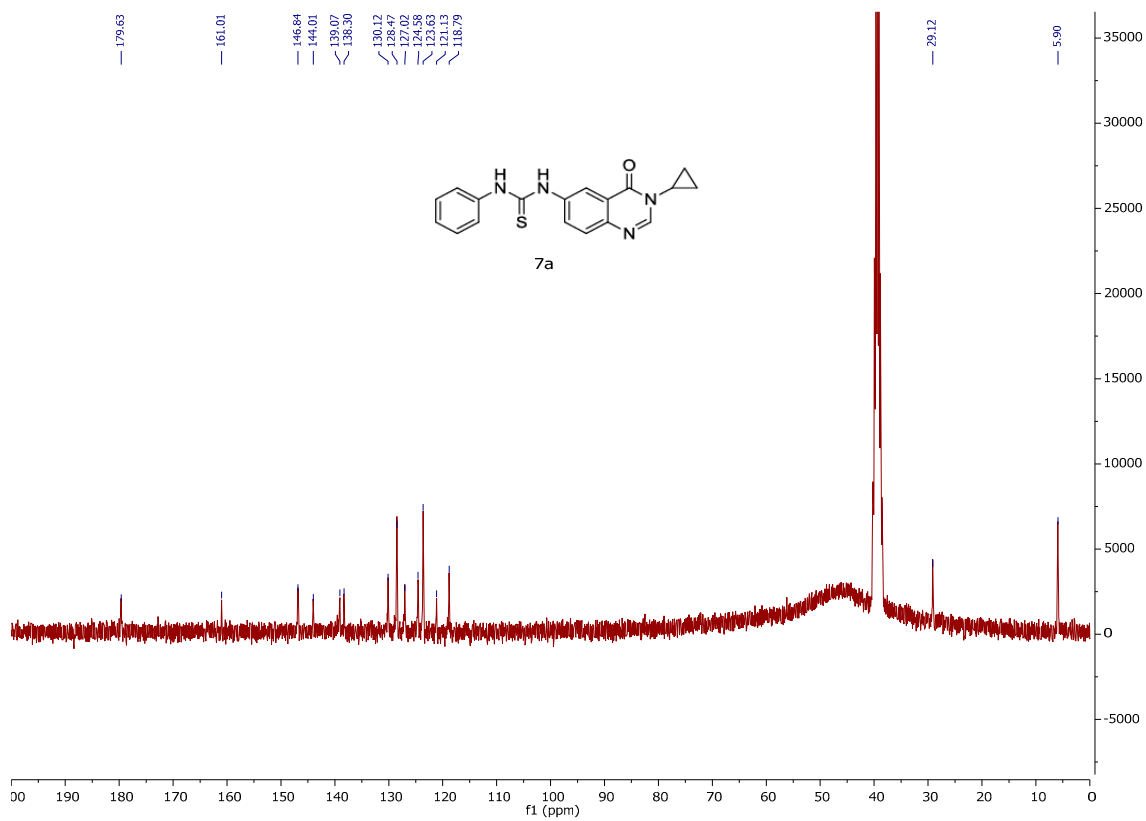


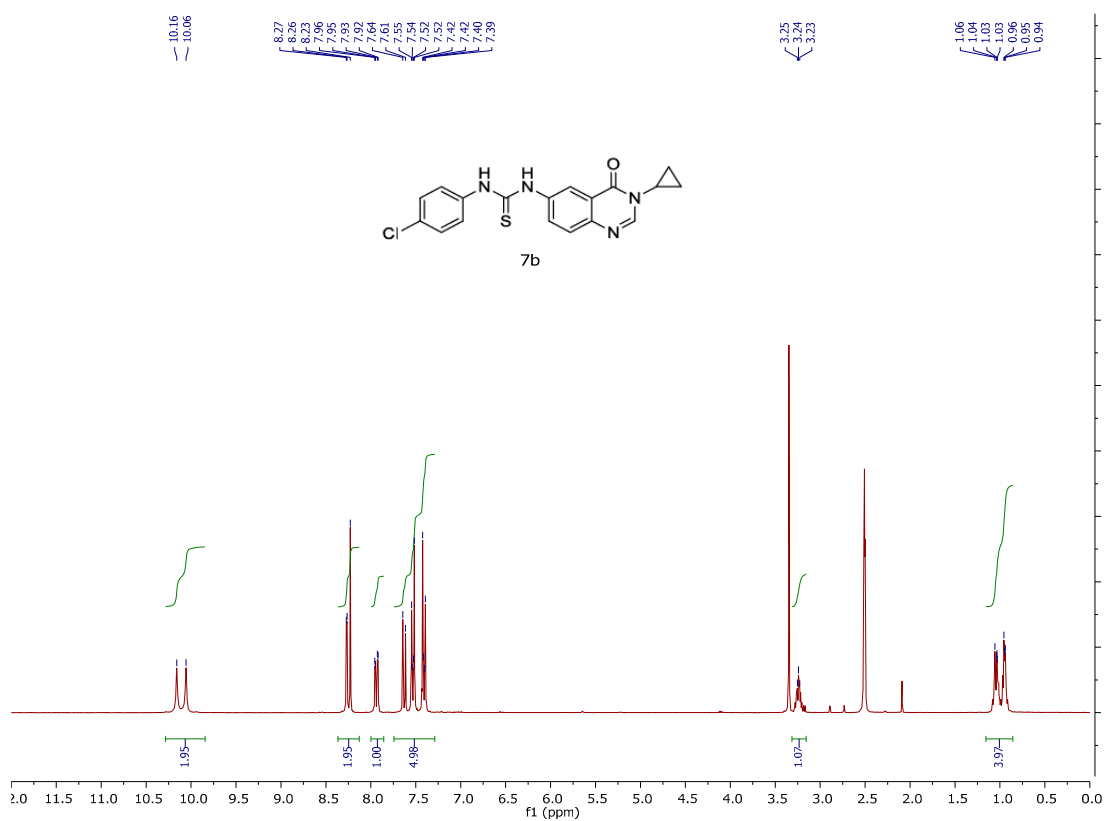
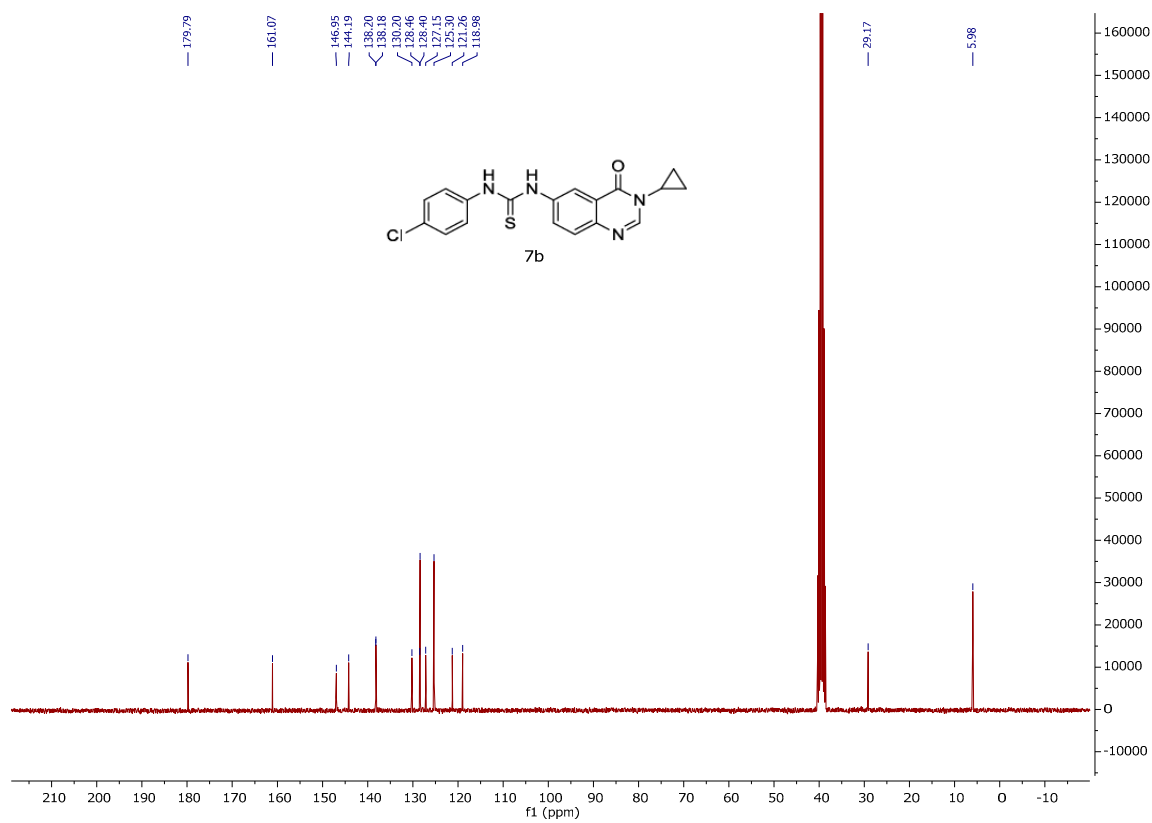
Figure S3. ¹H-NMR and ¹³C-NMR Compound 4.



Figure S4. ¹H-NMR and ¹³C-NMR Compound 5.

Figure S5. ¹H-NMR and ¹³C-NMR Compound 6

Figure S6. ¹H-NMR and ¹³C-NMR Compound 7a

Figure S7. ¹H-NMR and ¹³C-NMR Compound 7b

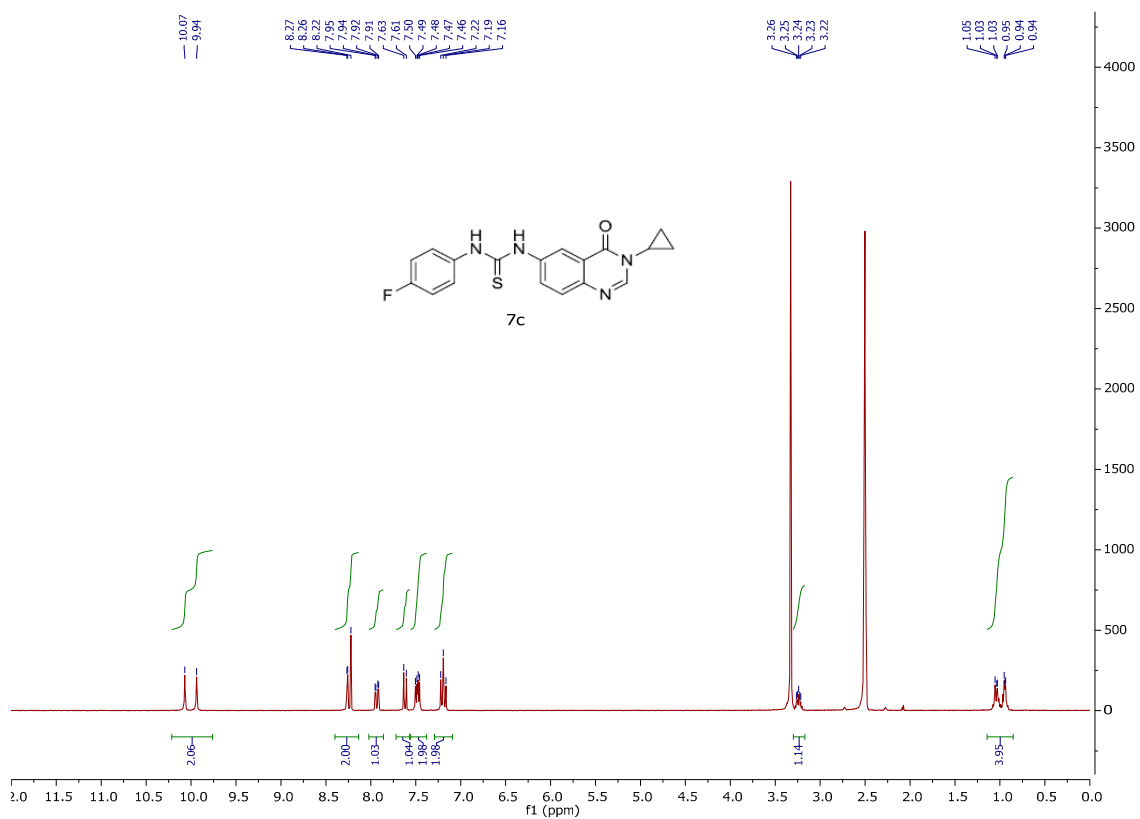
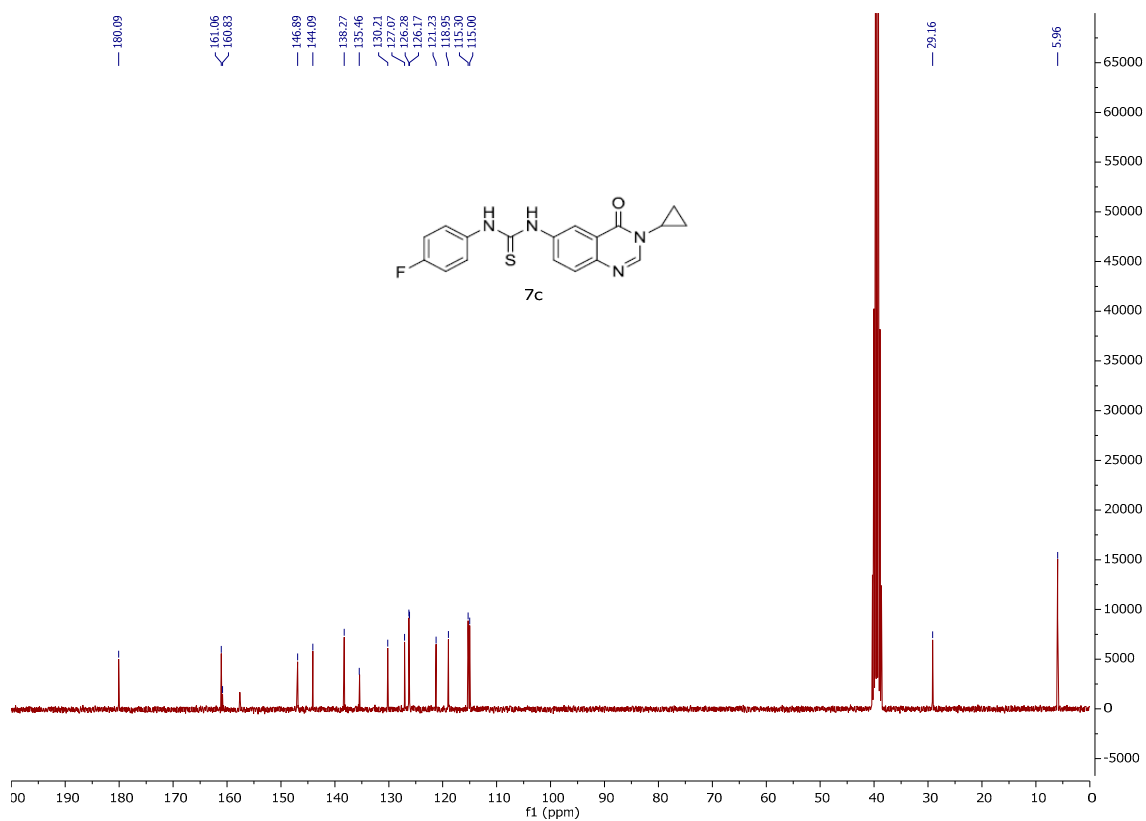


Figure S8. ^1H -NMR and ^{13}C -NMR Compound 7c



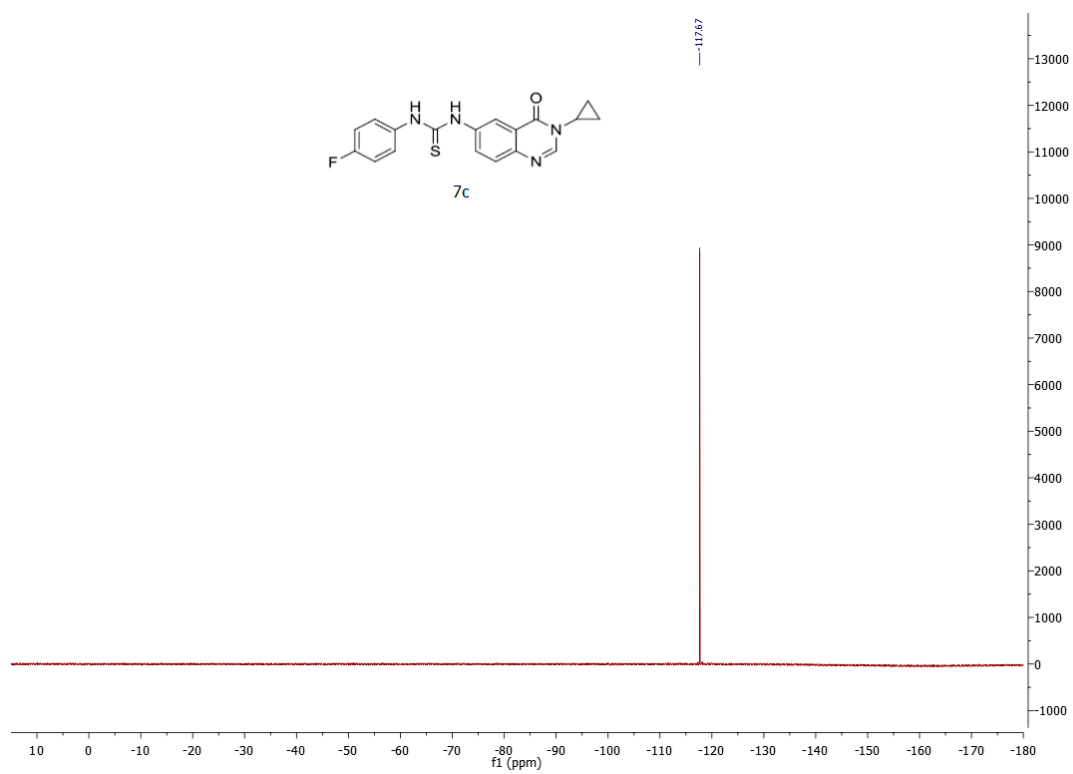
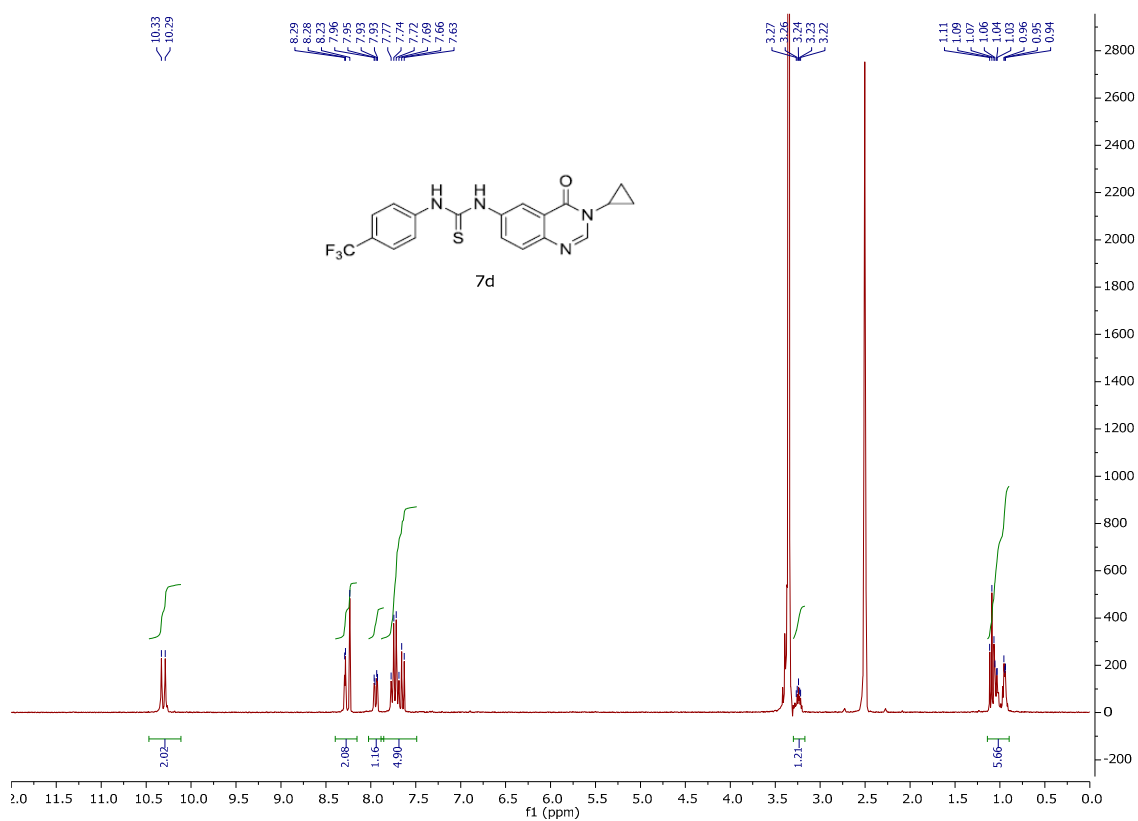
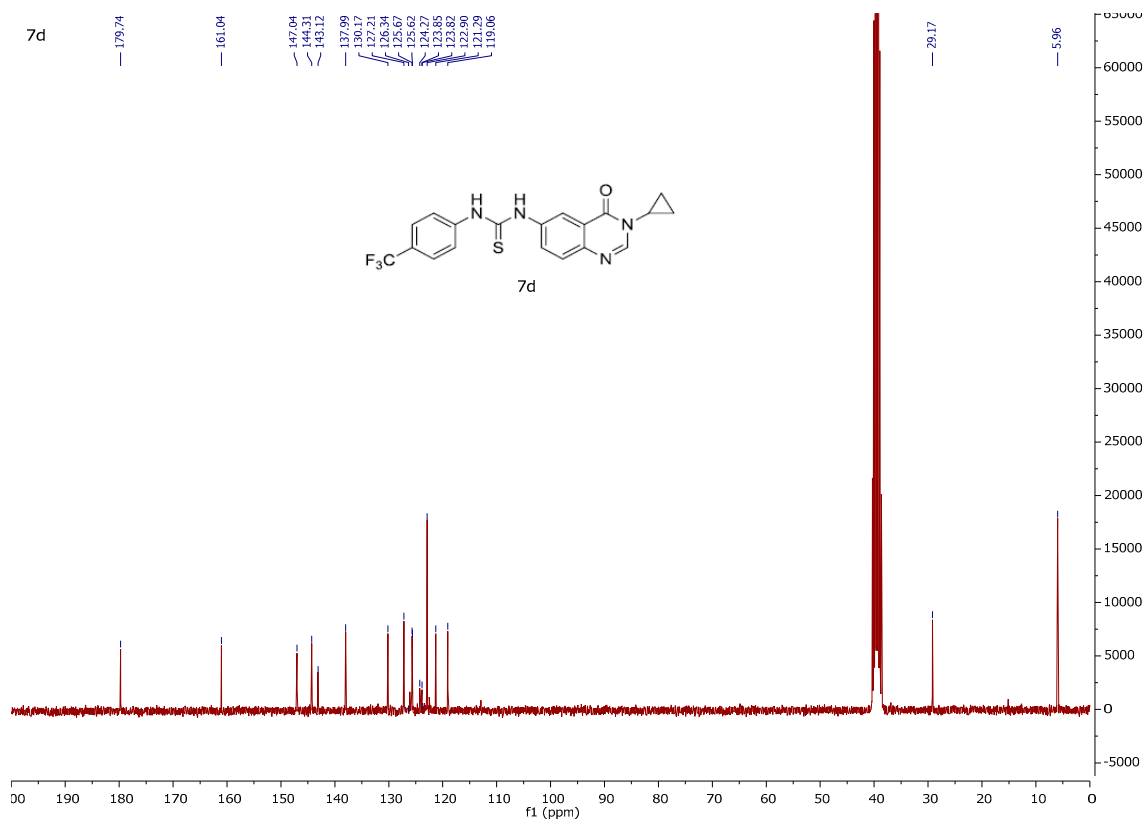


Figure S9. ^{19}F -NMR Compound 7c

Figure S10. ¹H-NMR and ¹³C-NMR Compound 7d

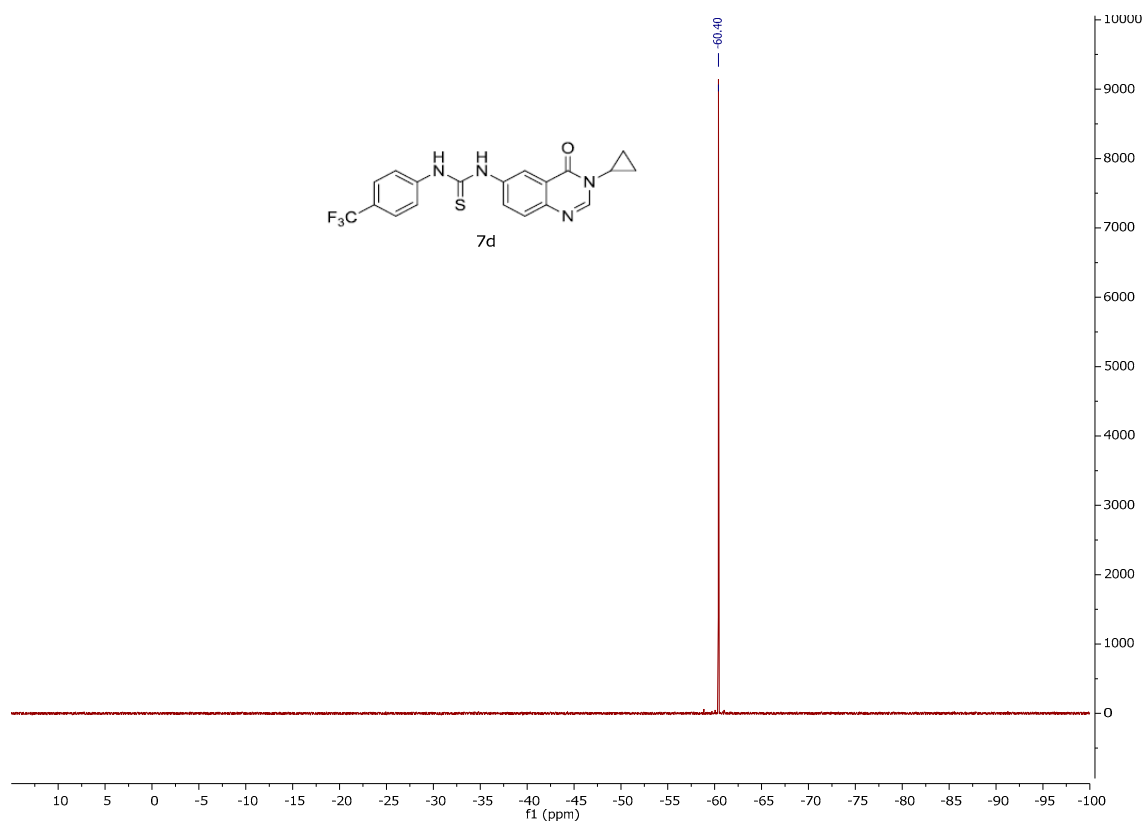
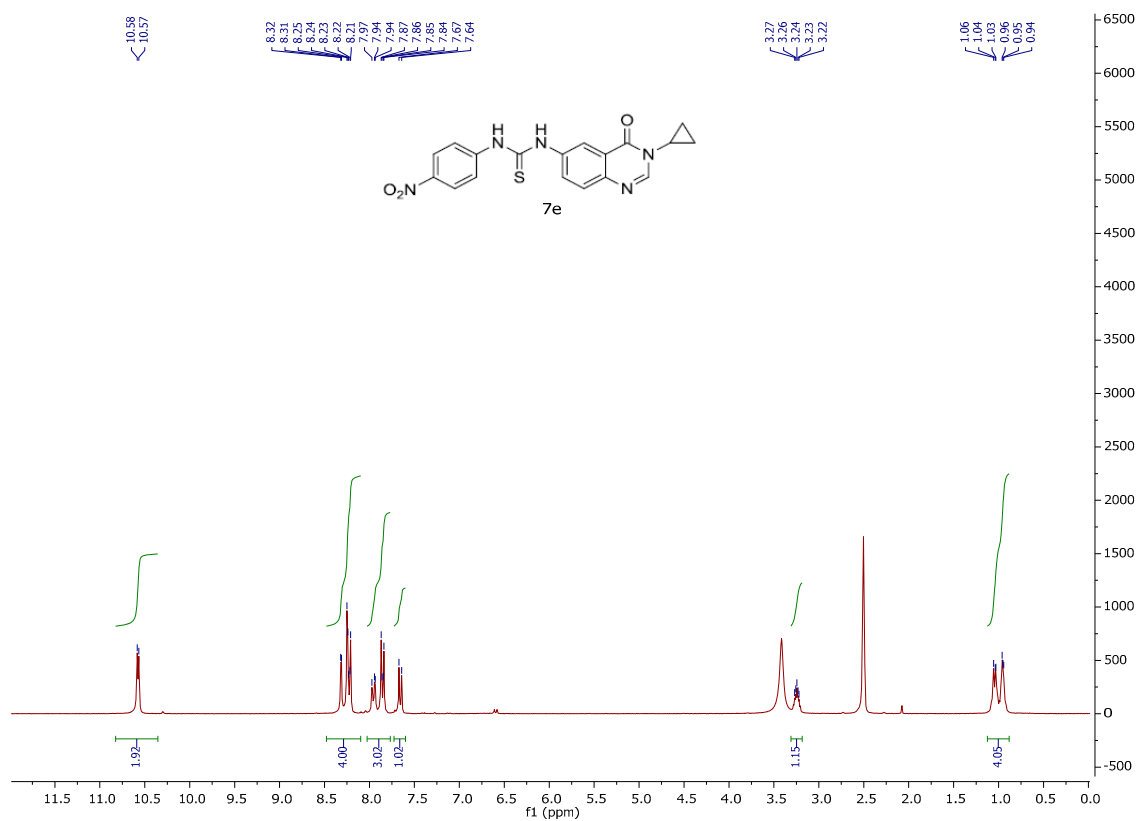
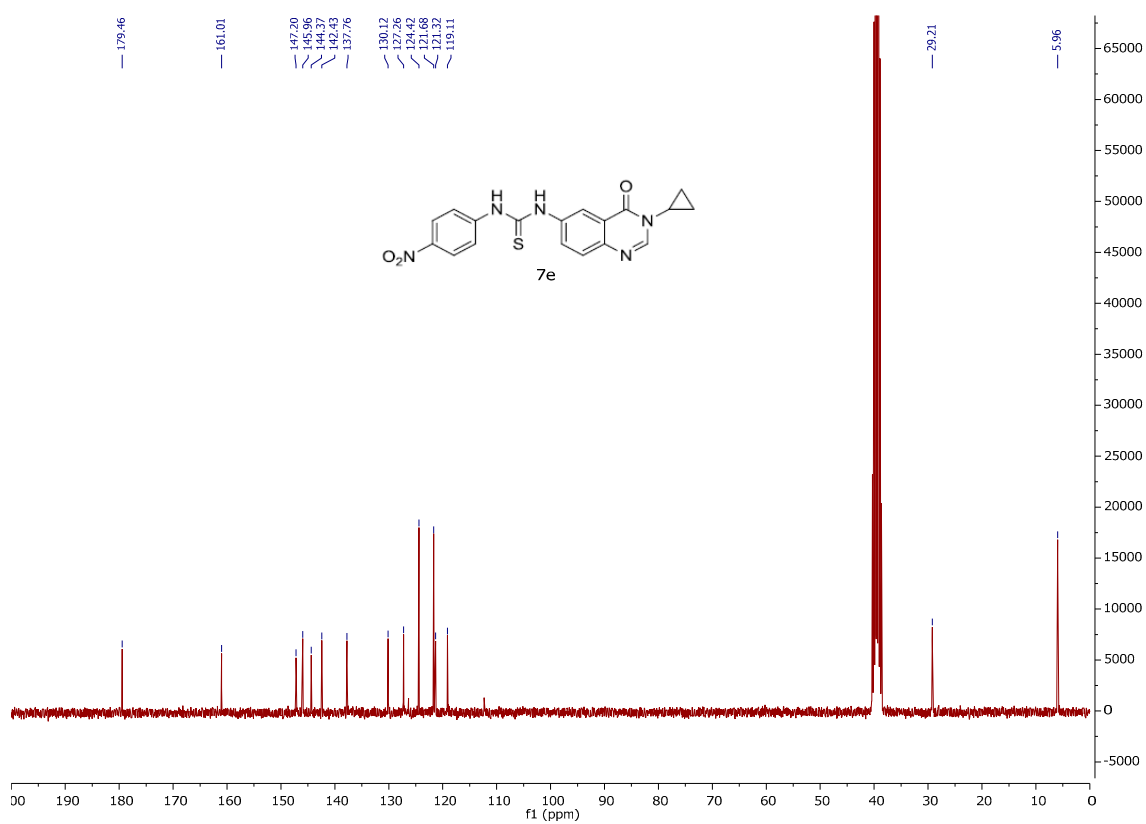
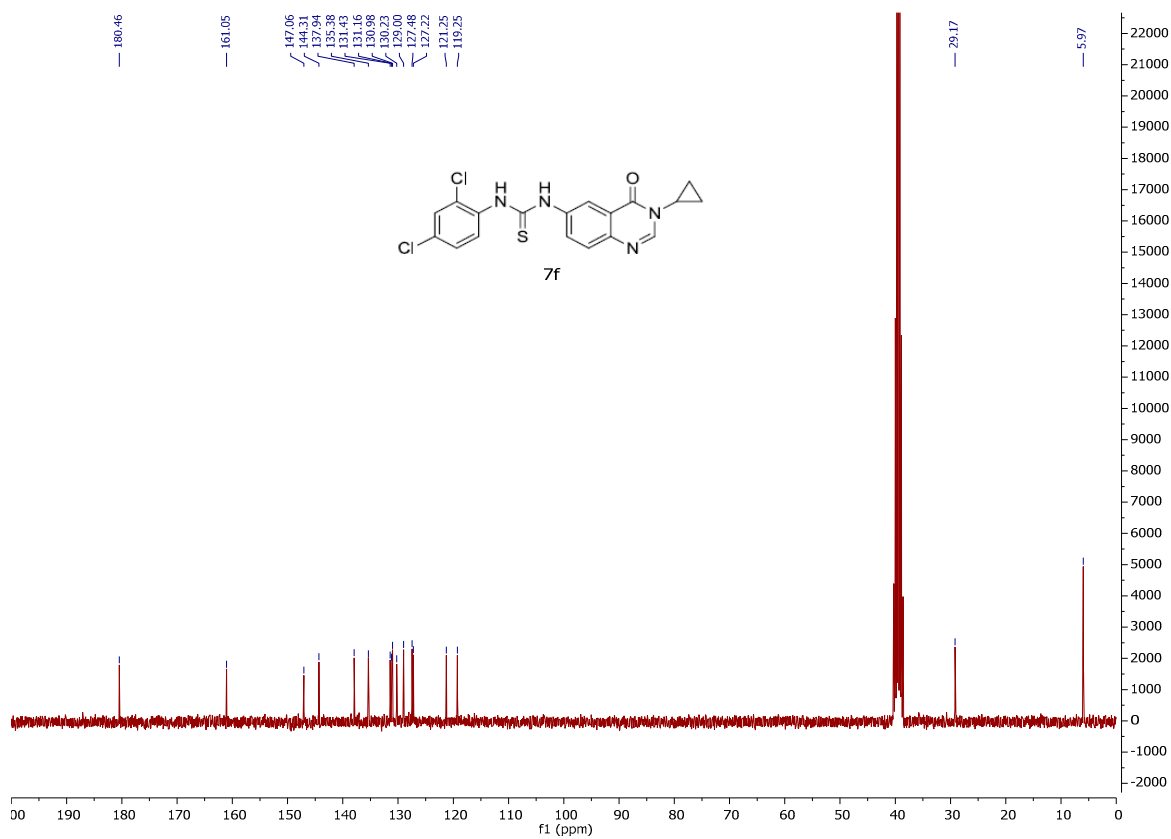
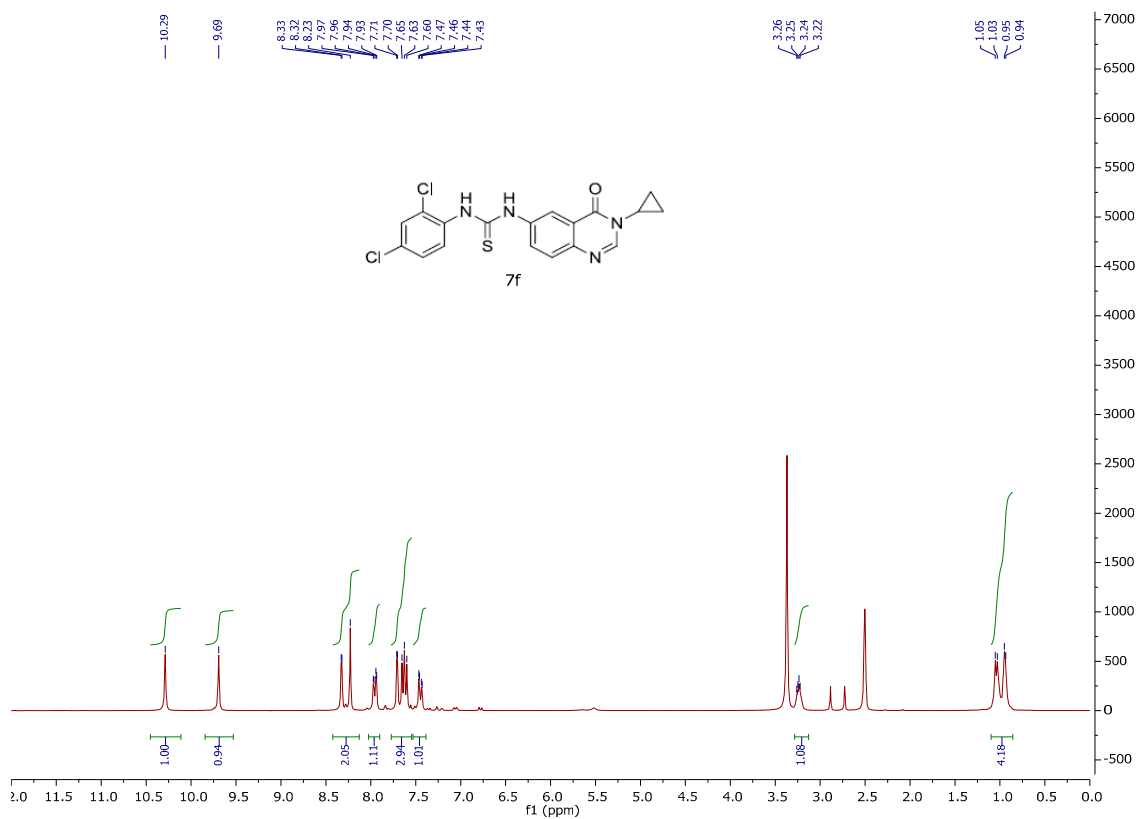
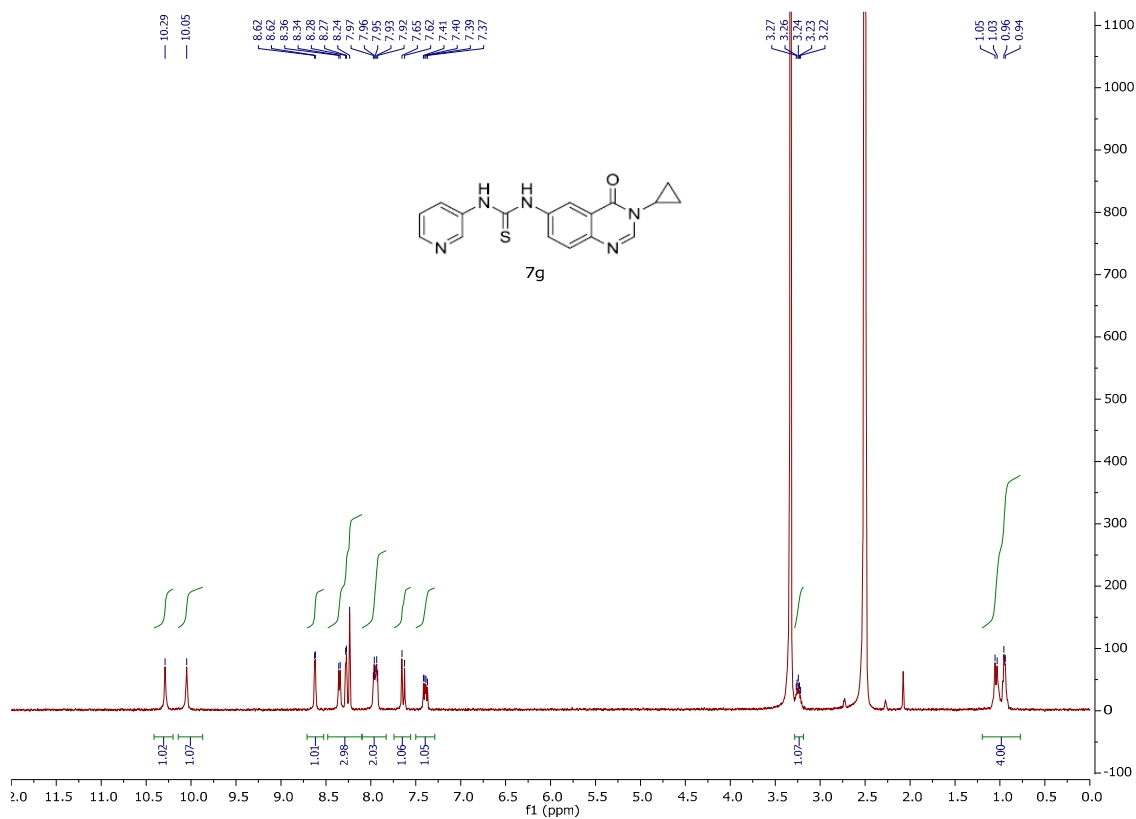
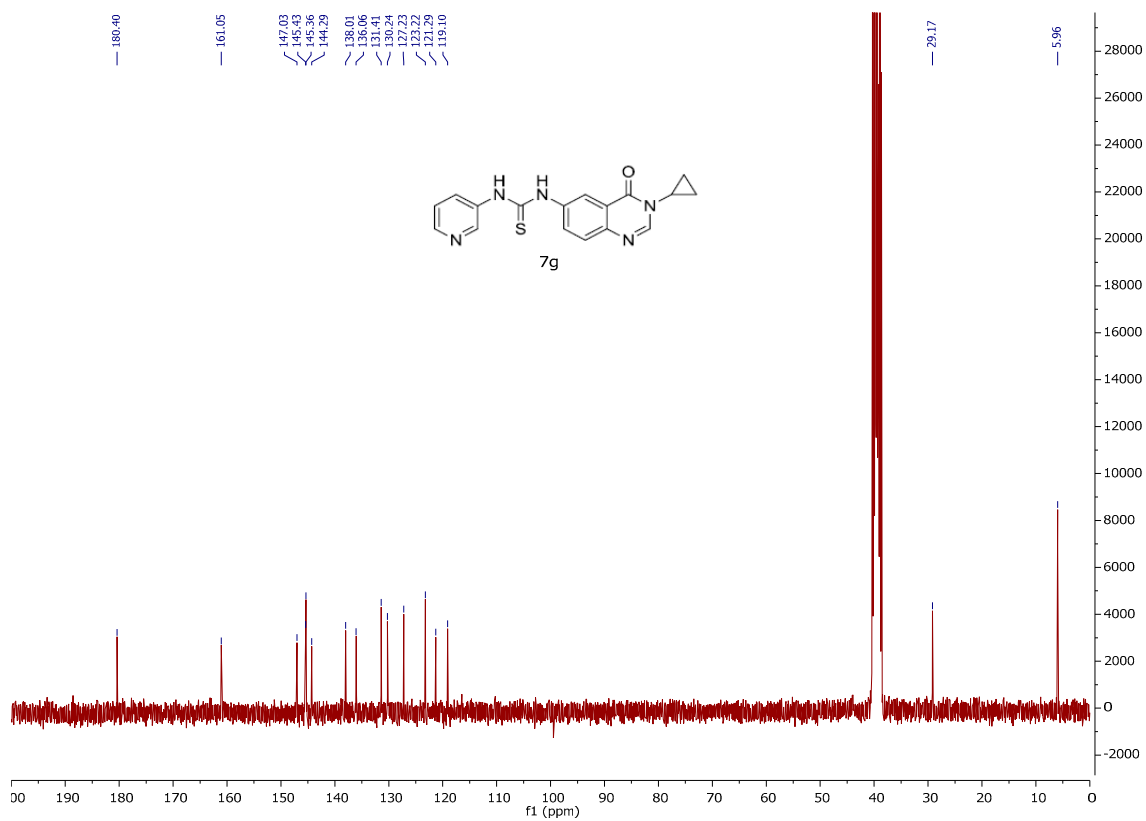
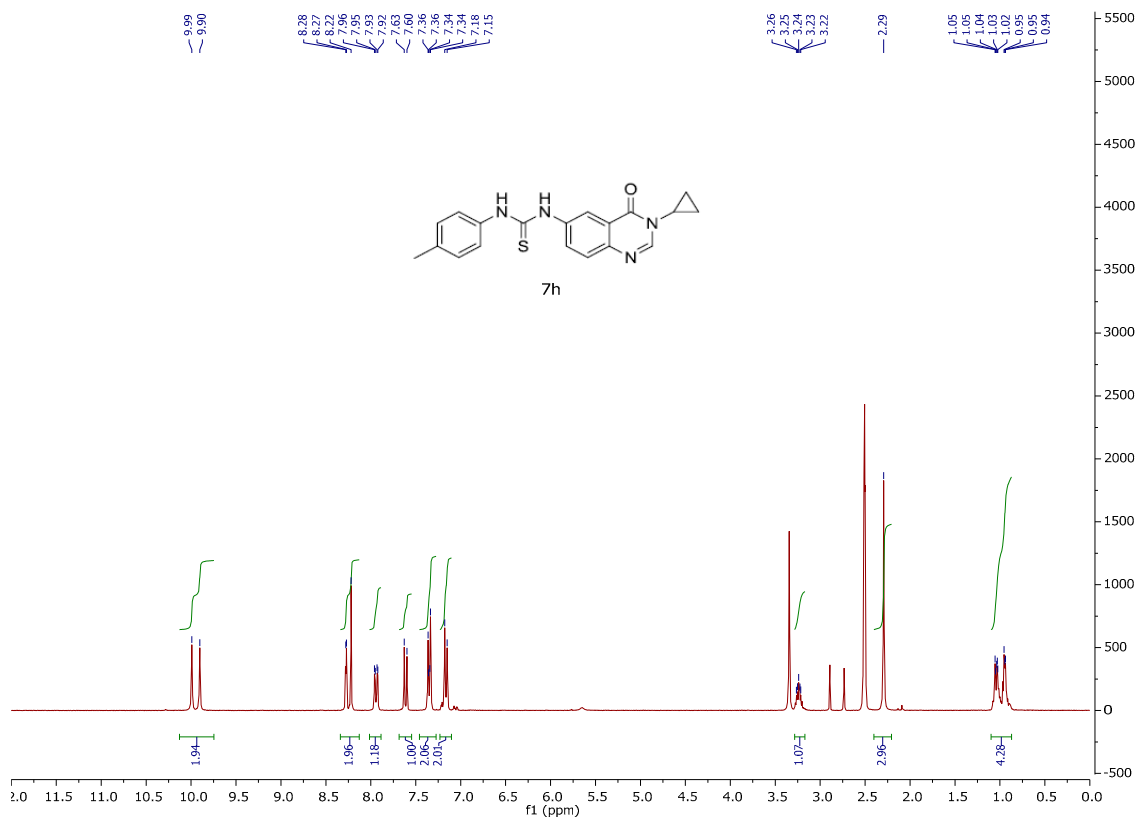
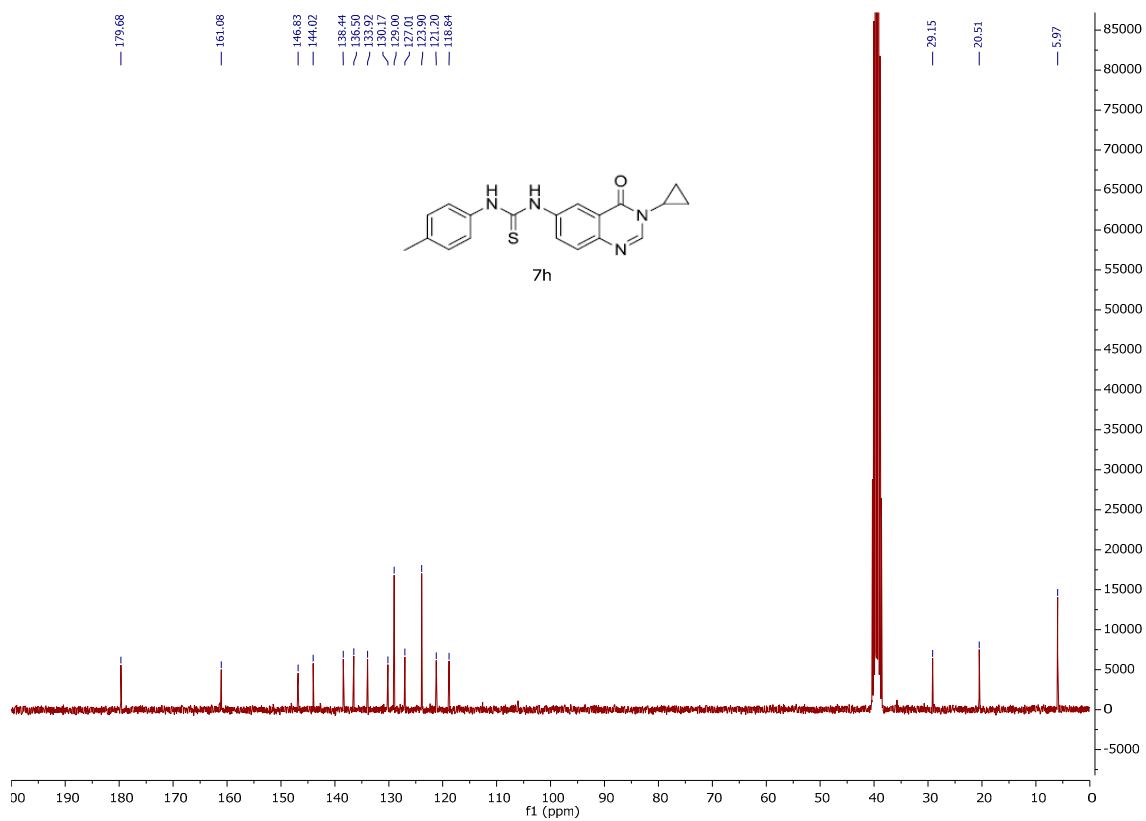


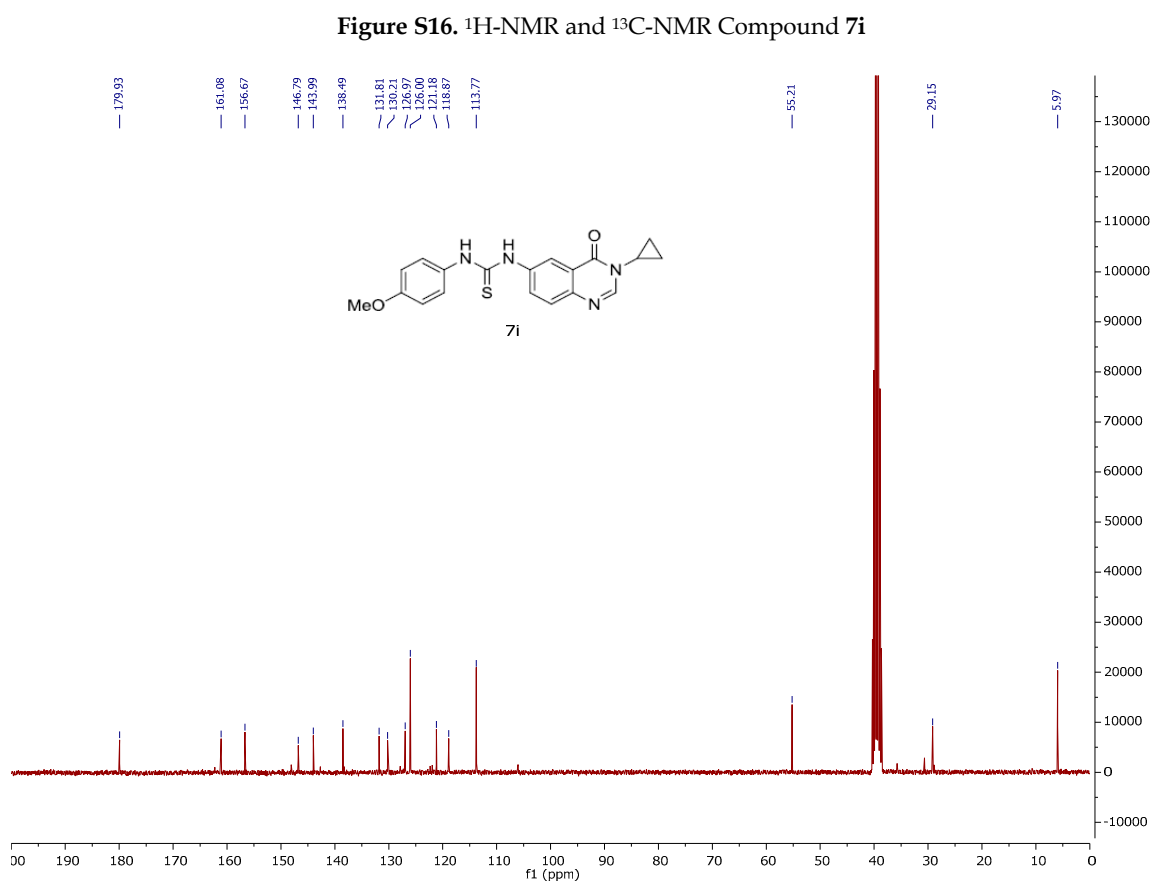
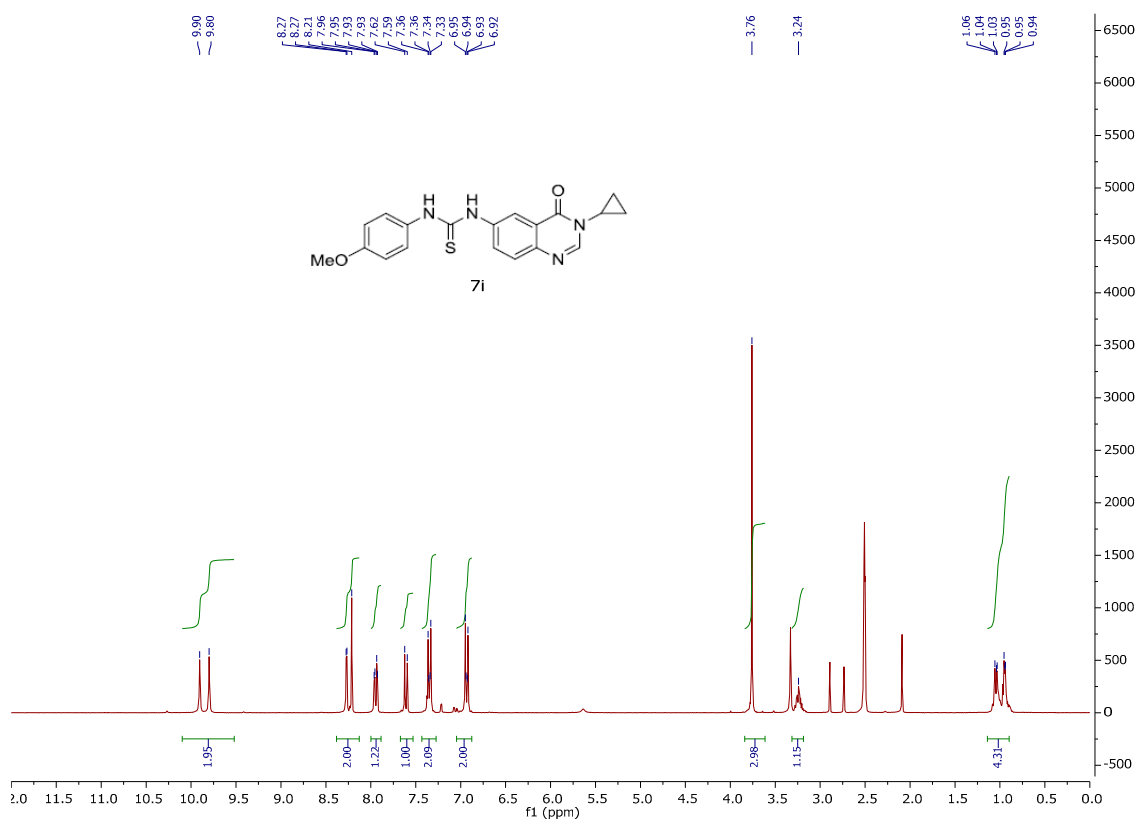
Figure S11. ^{19}F -NMR Compound 7d

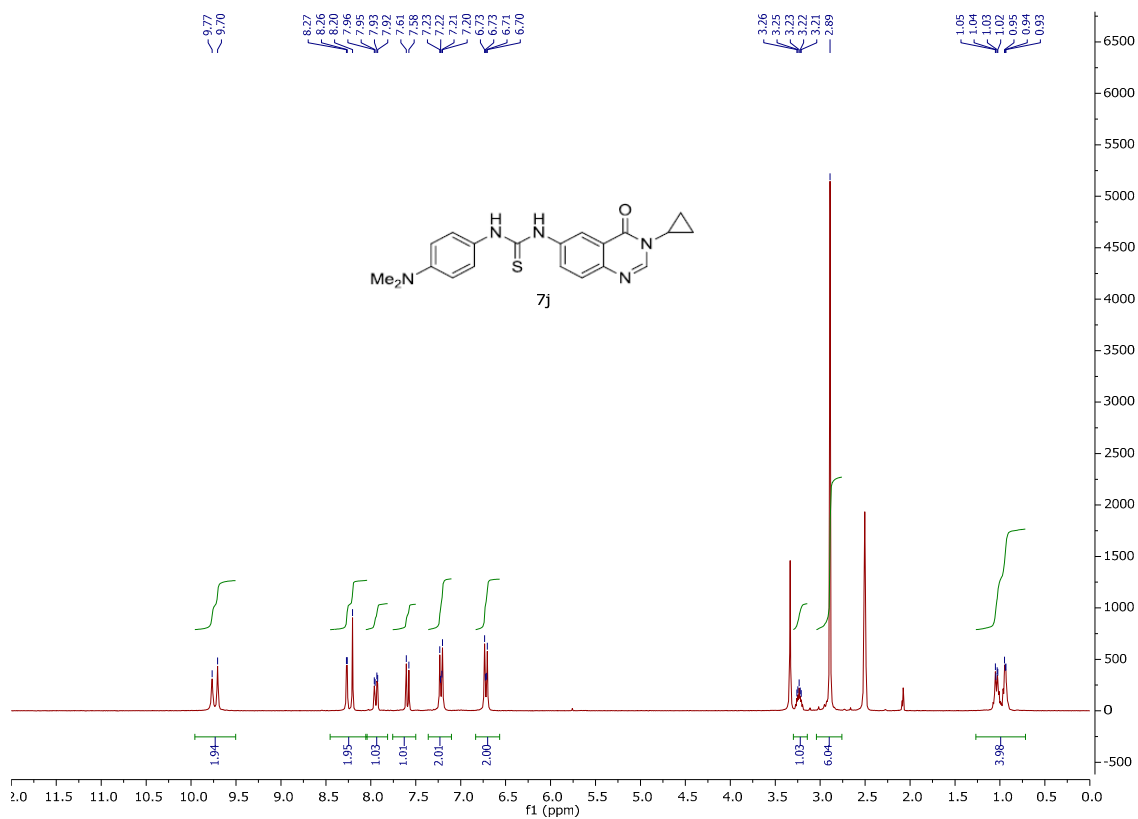
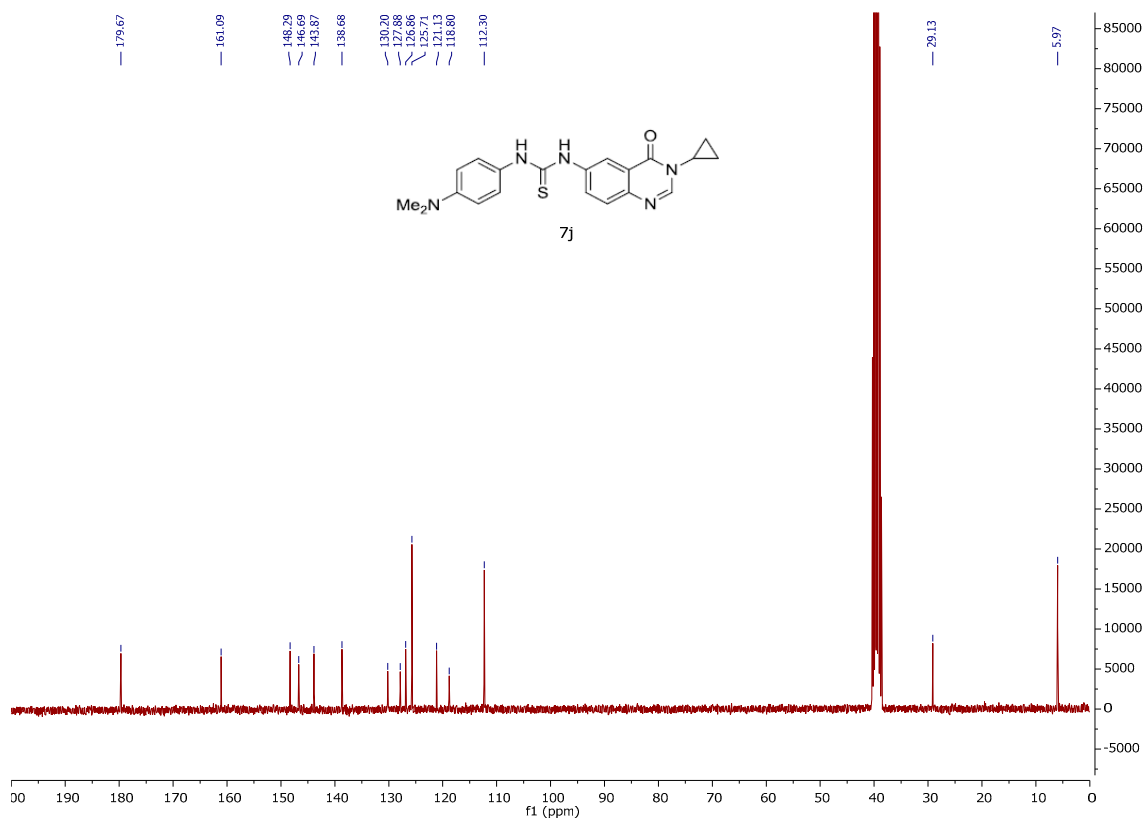
Figure S12. ¹H-NMR and ¹³C-NMR Compound 7e

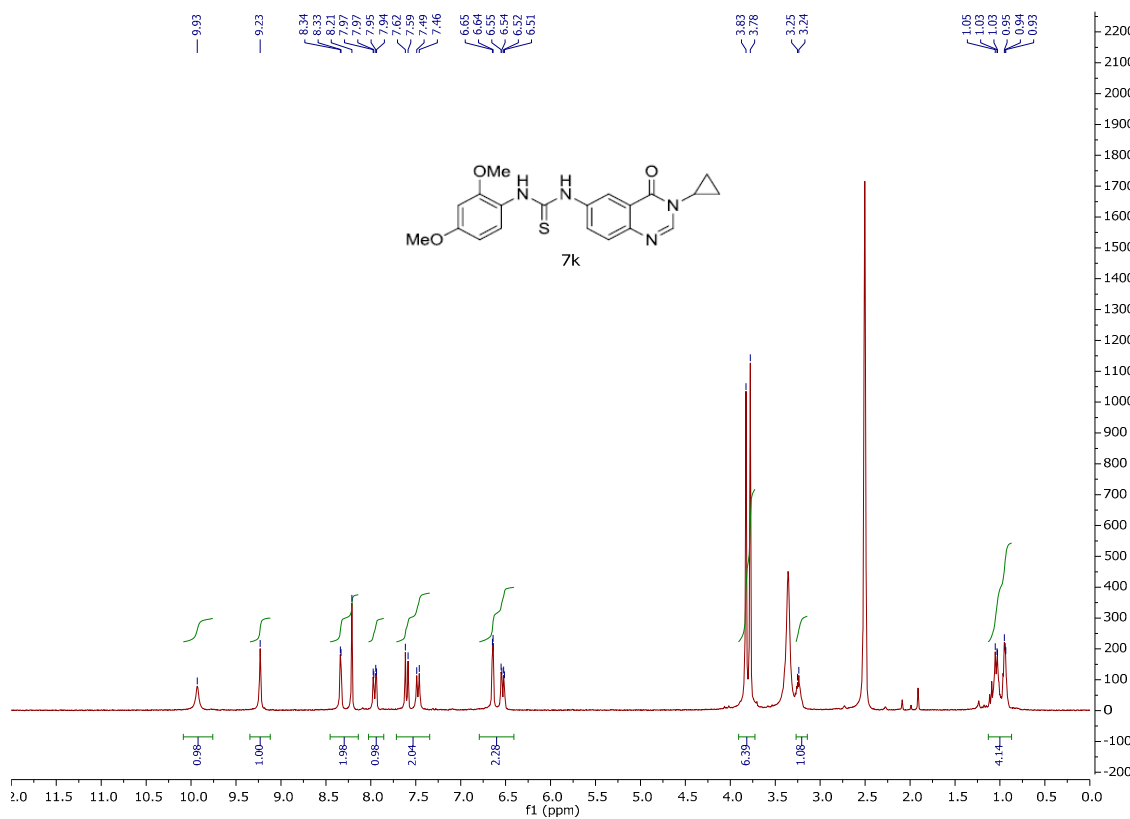
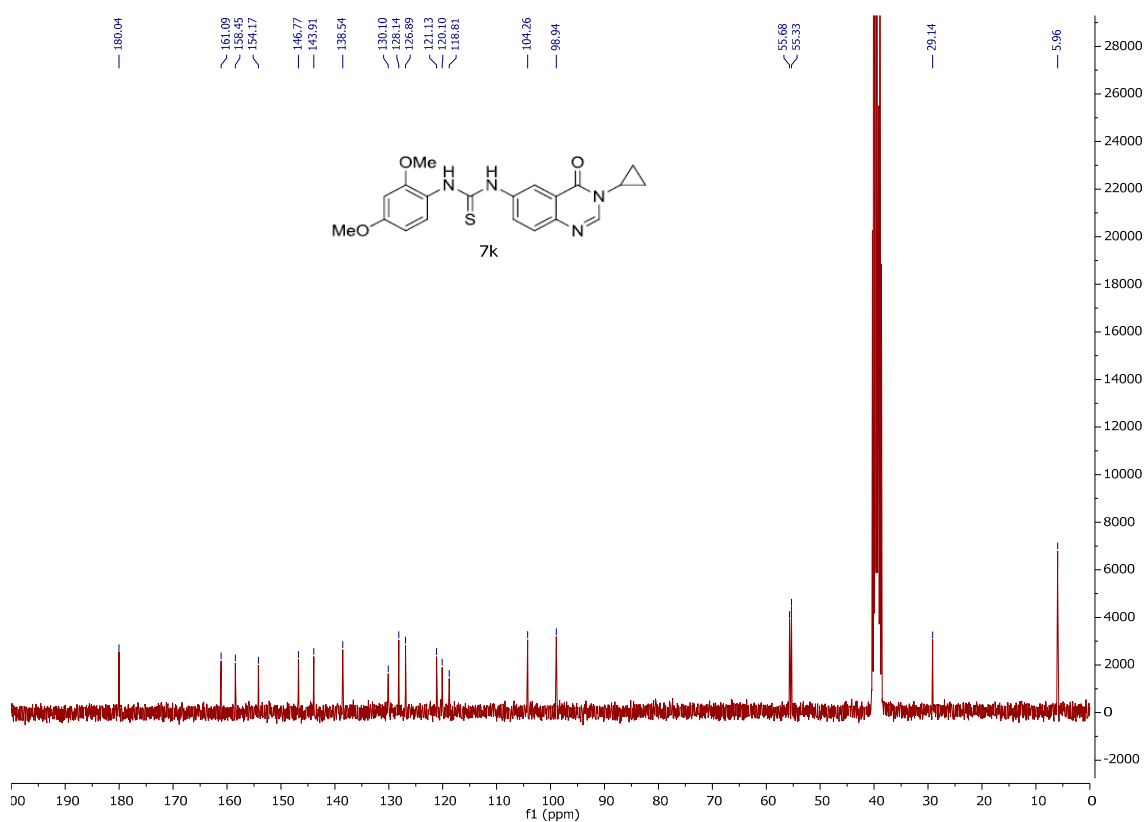


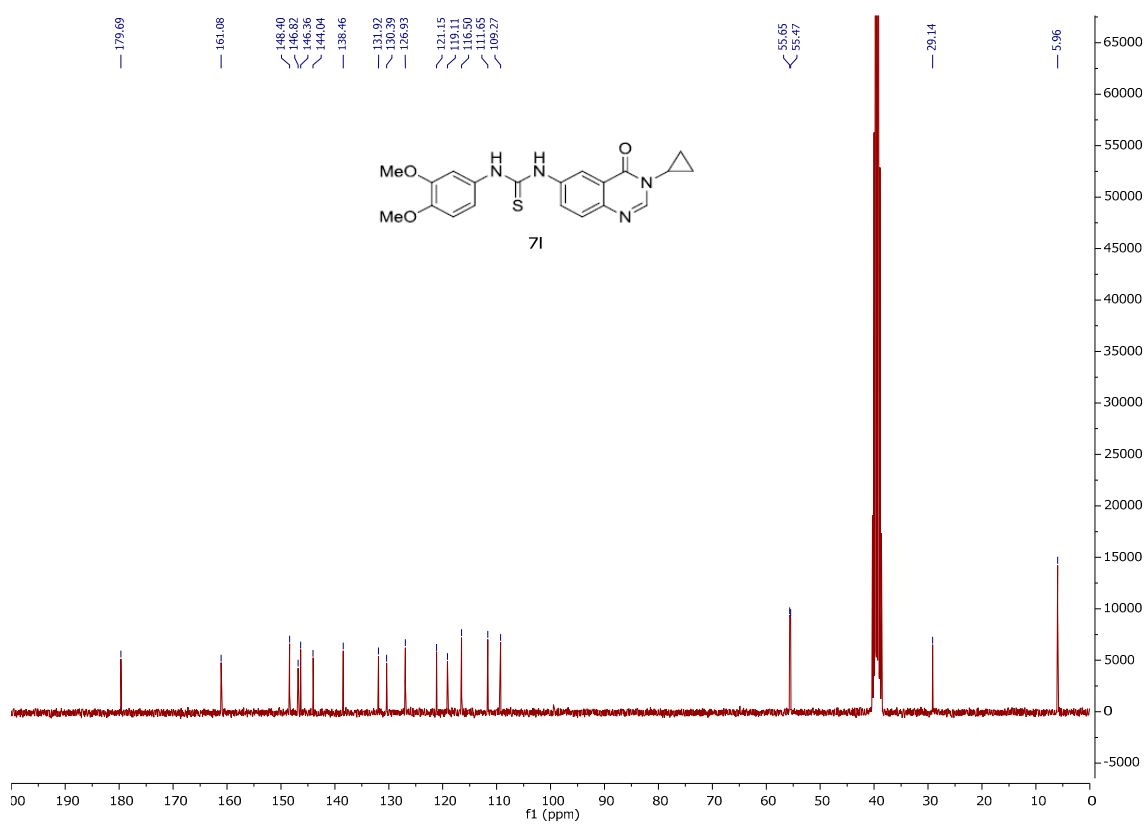
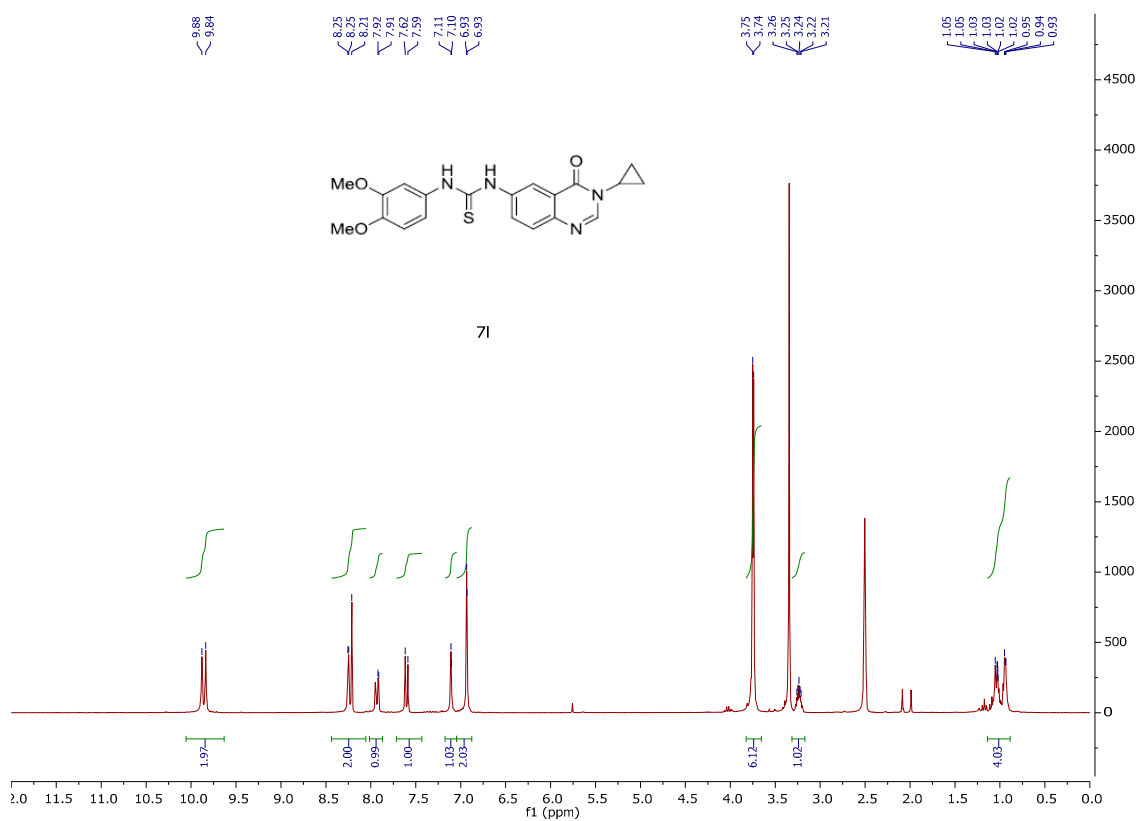
Figure S14. ¹H-NMR and ¹³C-NMR Compound 7g

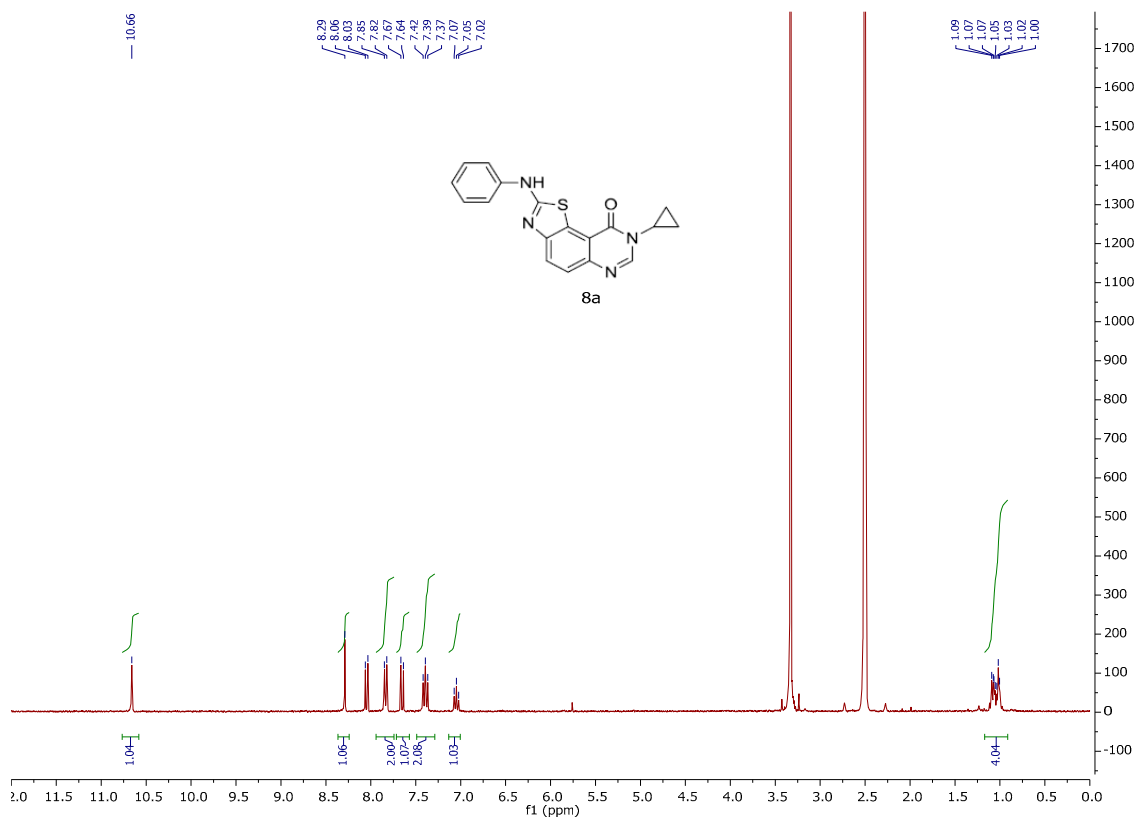
Figure S15. ¹H-NMR and ¹³C-NMR Compound 7h

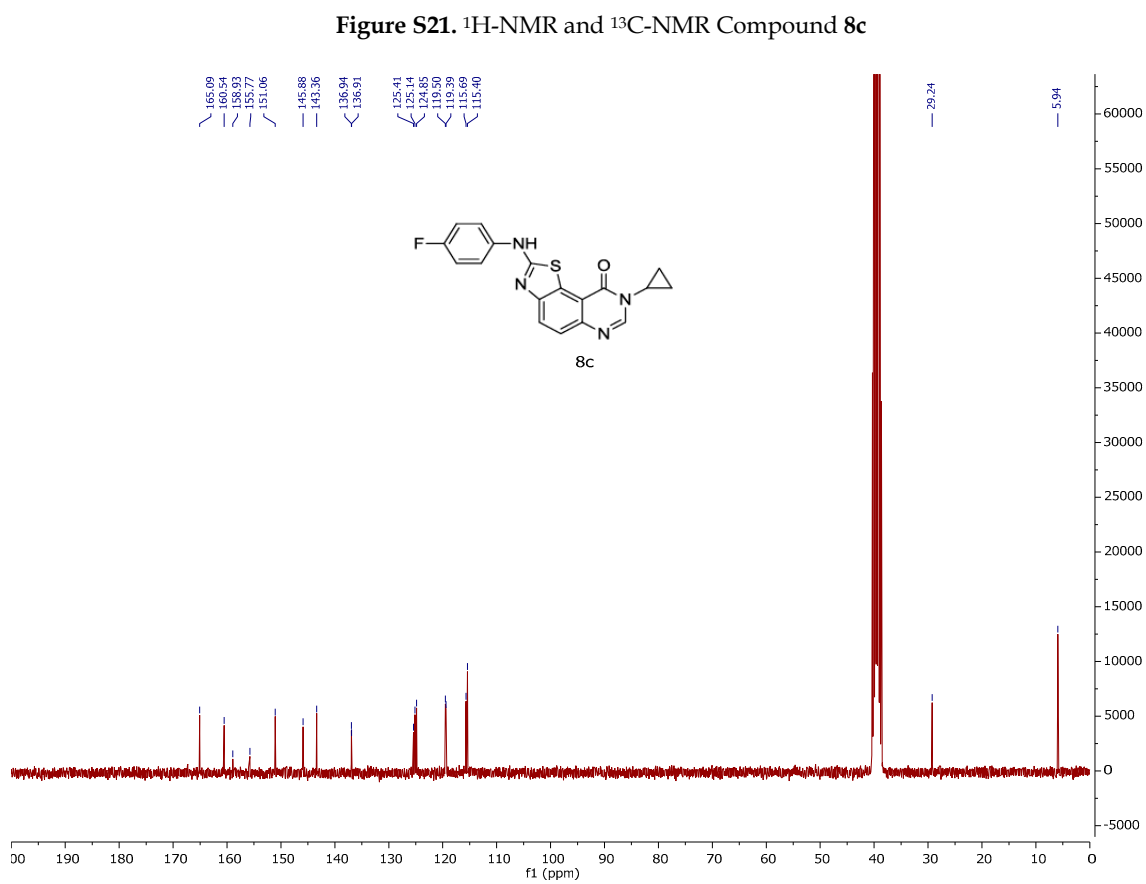
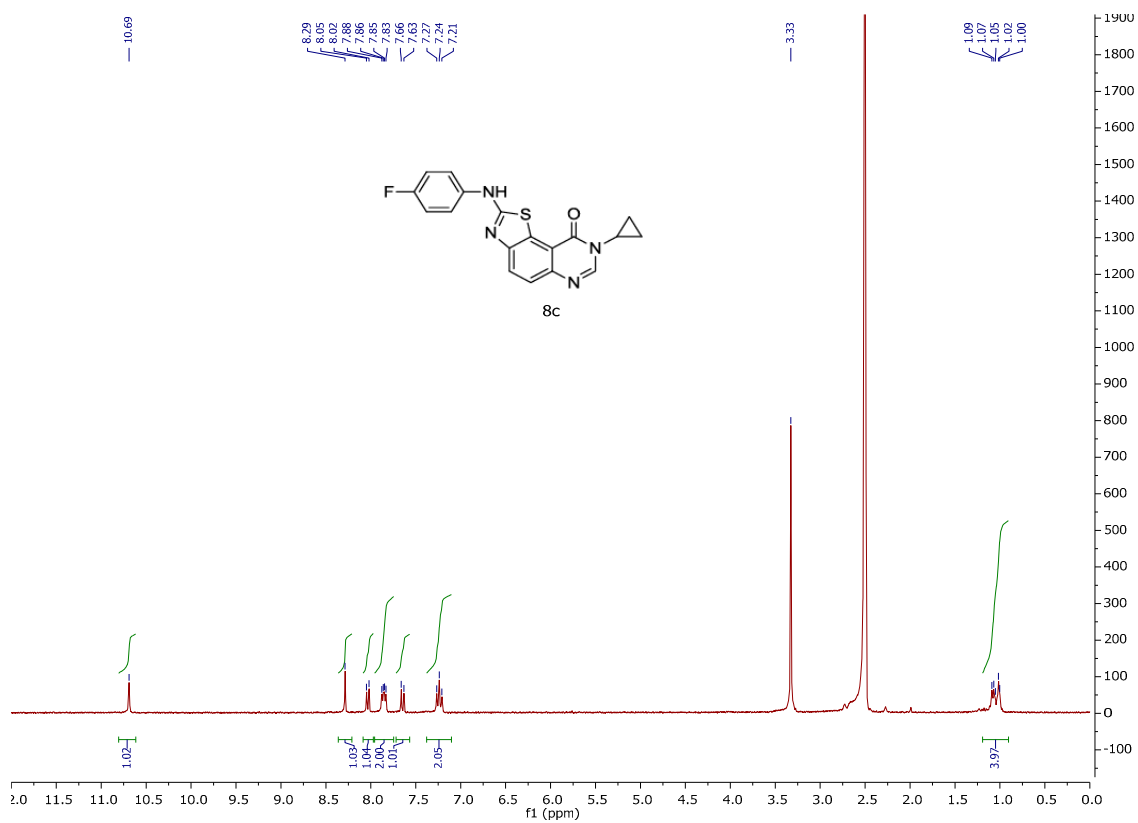


Figure S17. ¹H-NMR and ¹³C-NMR Compound 7j

Figure S18. ¹H-NMR and ¹³C-NMR Compound 7k







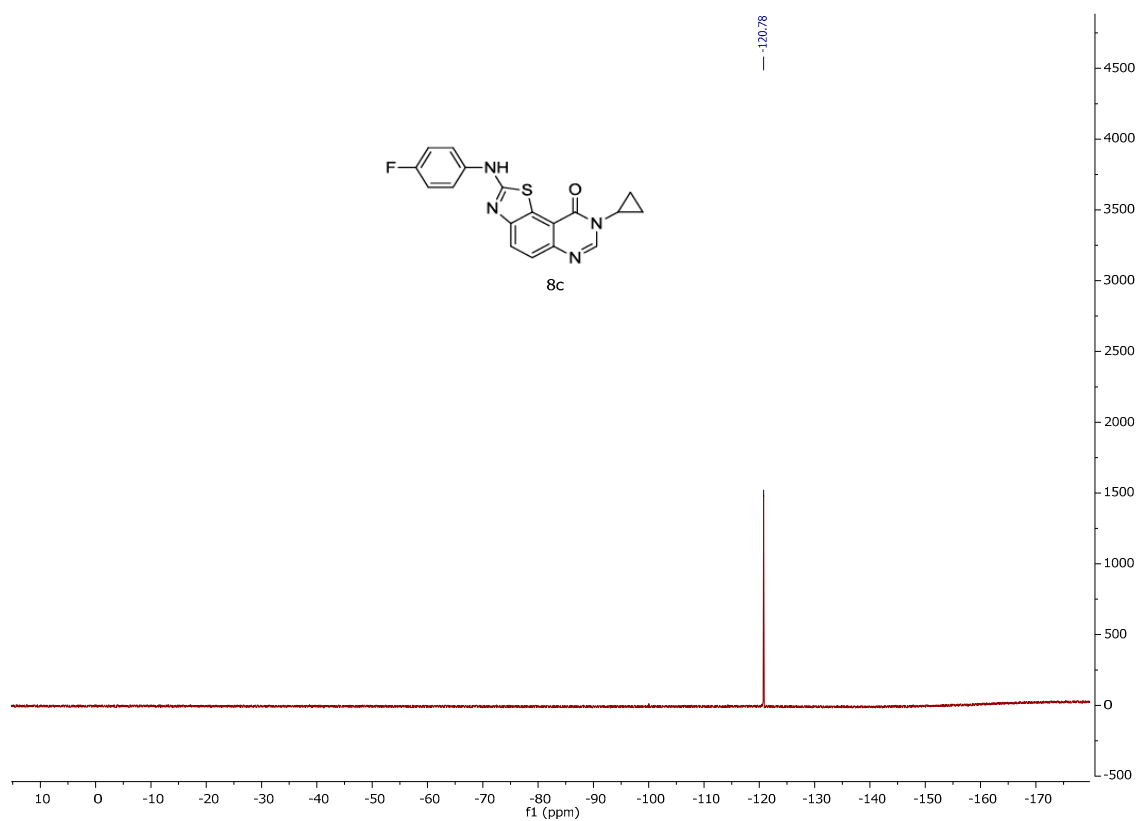
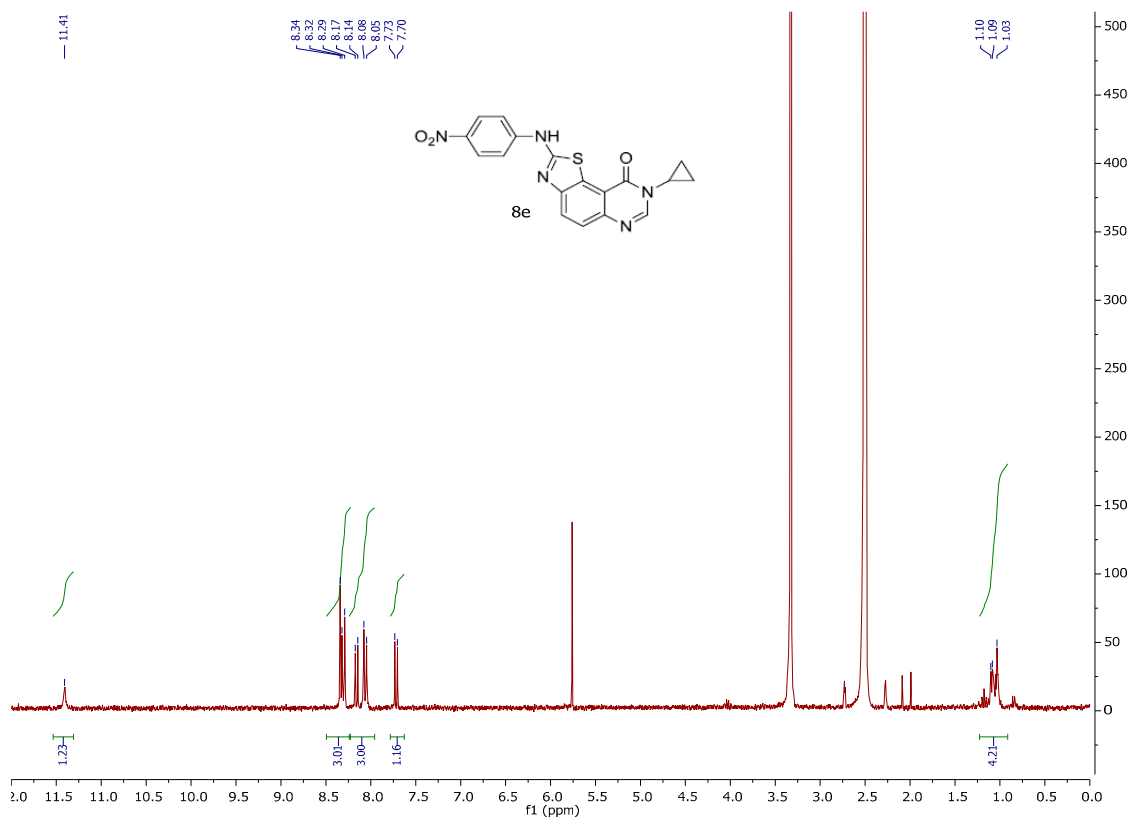
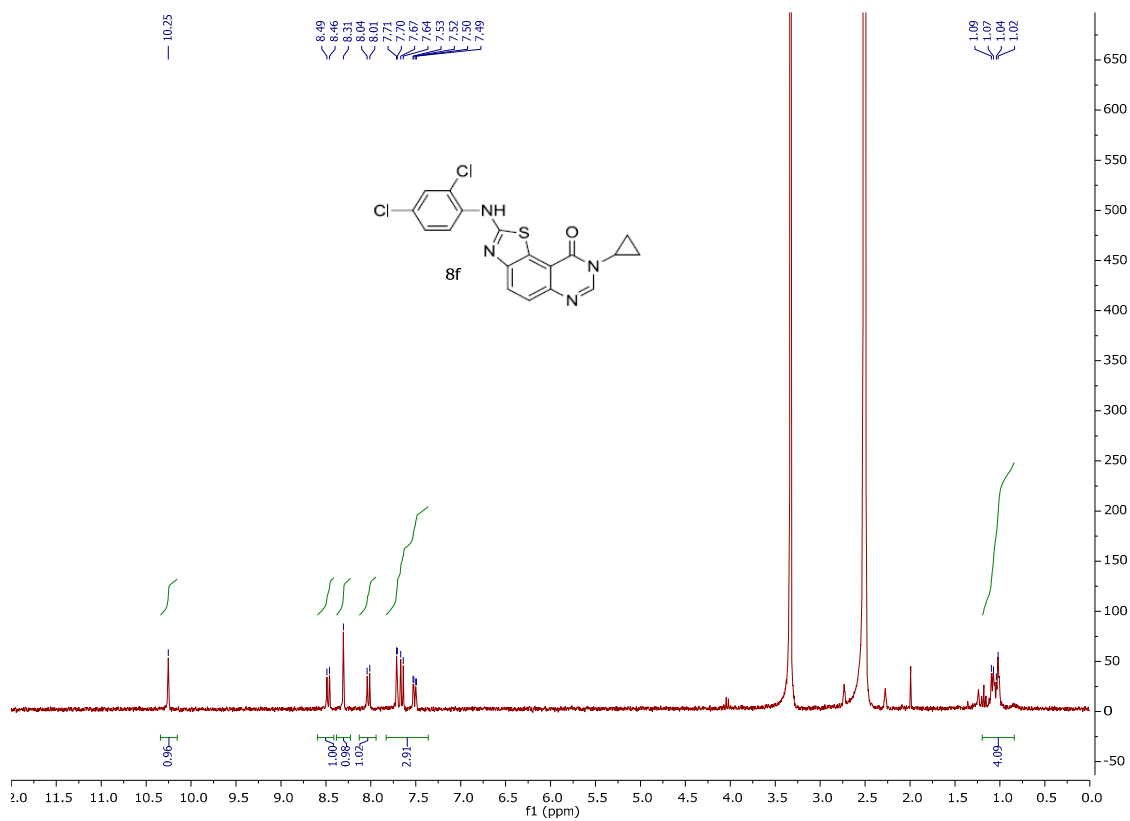
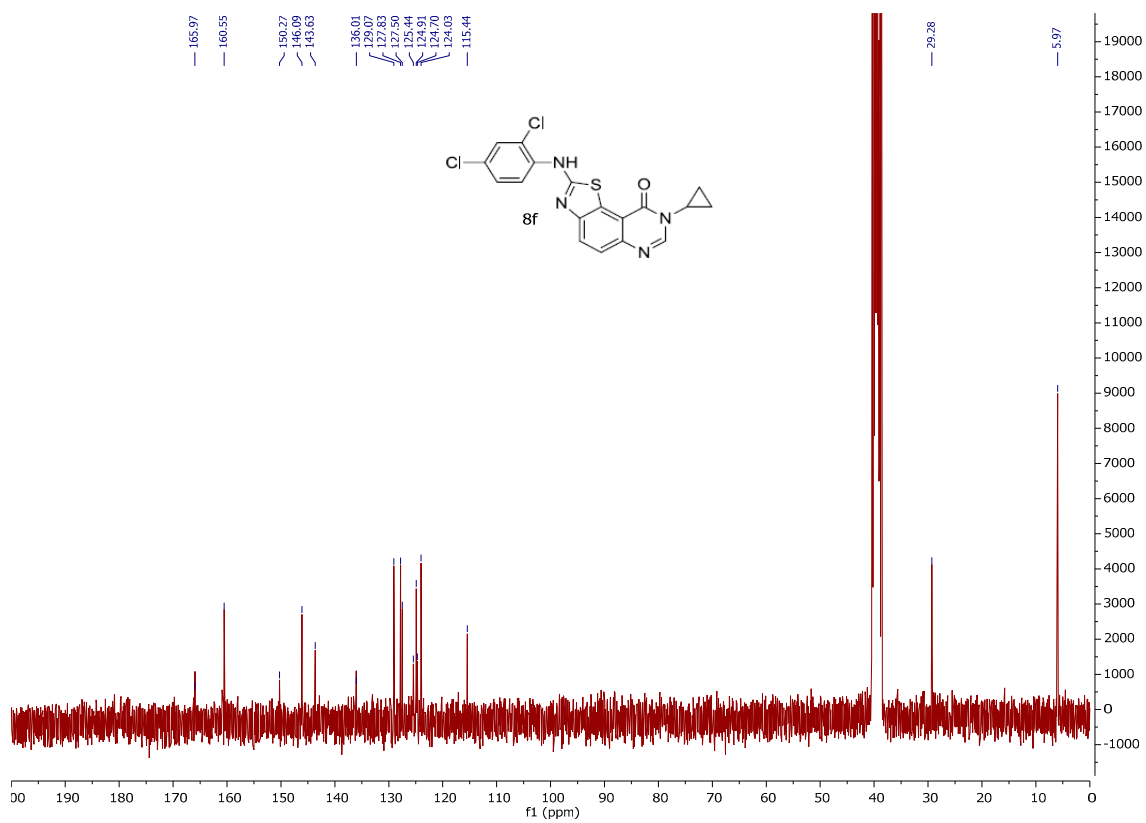
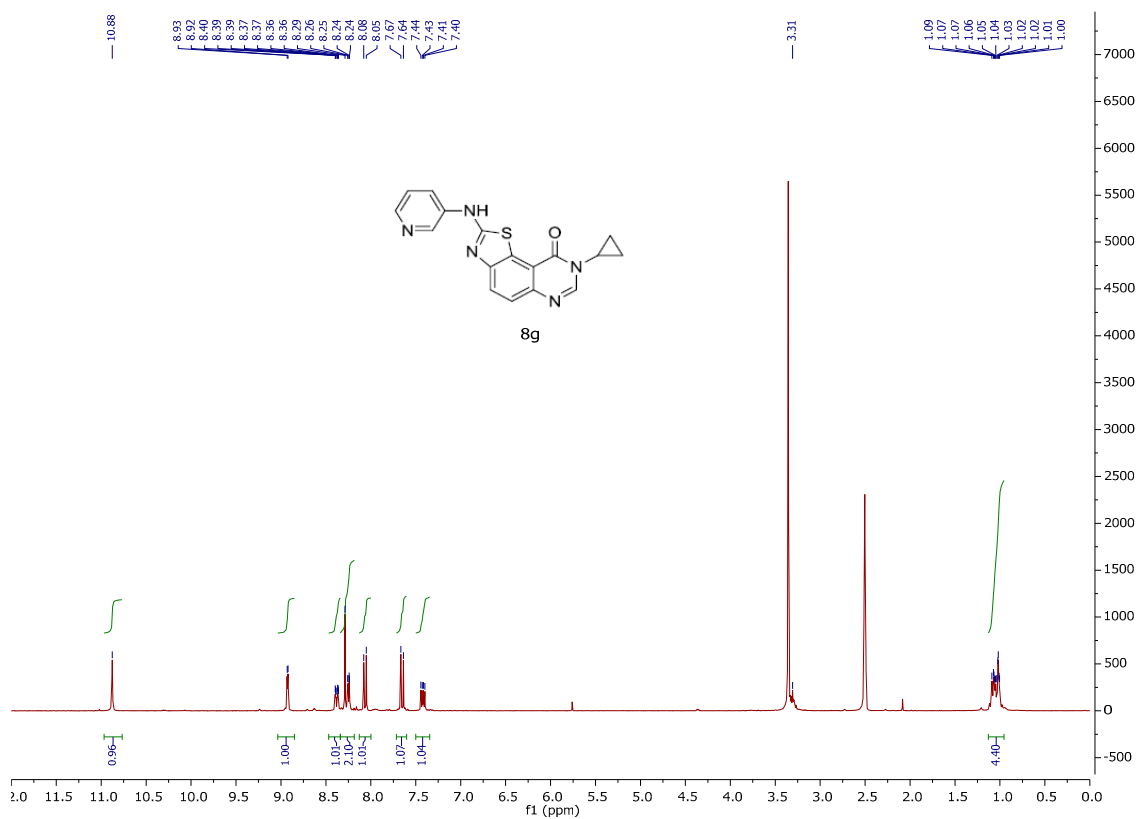
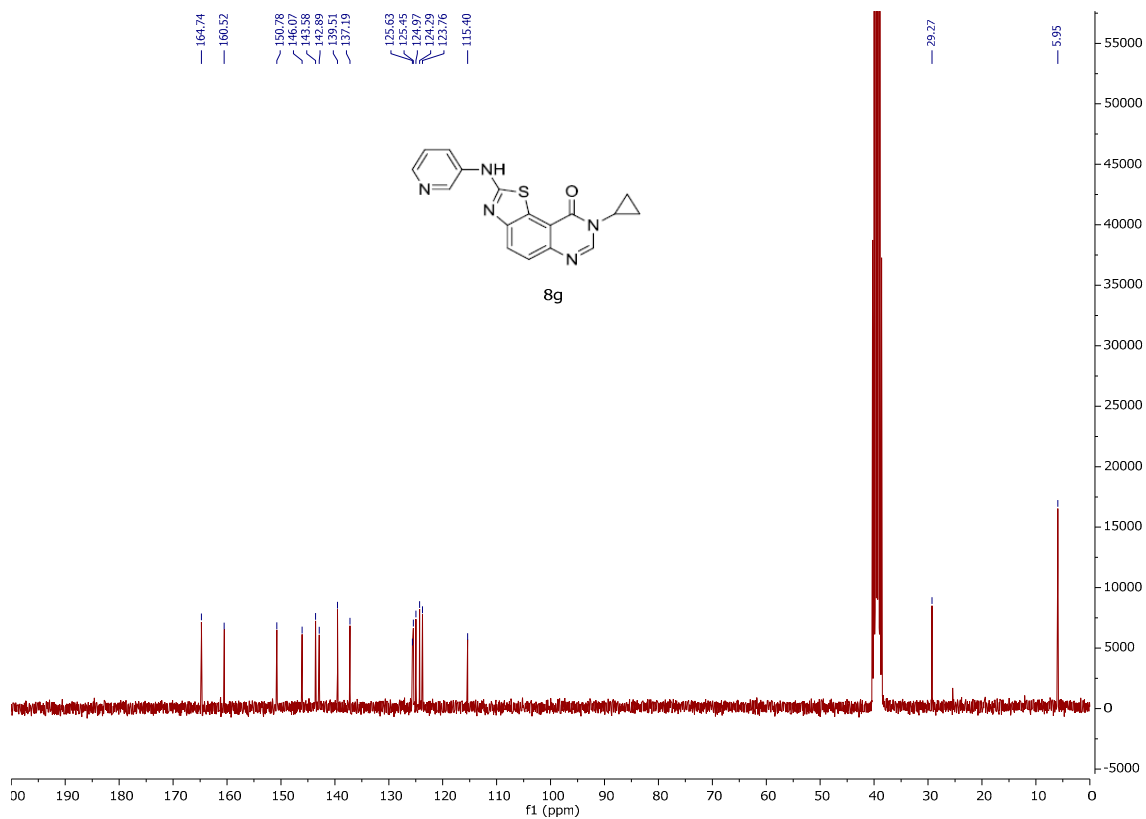
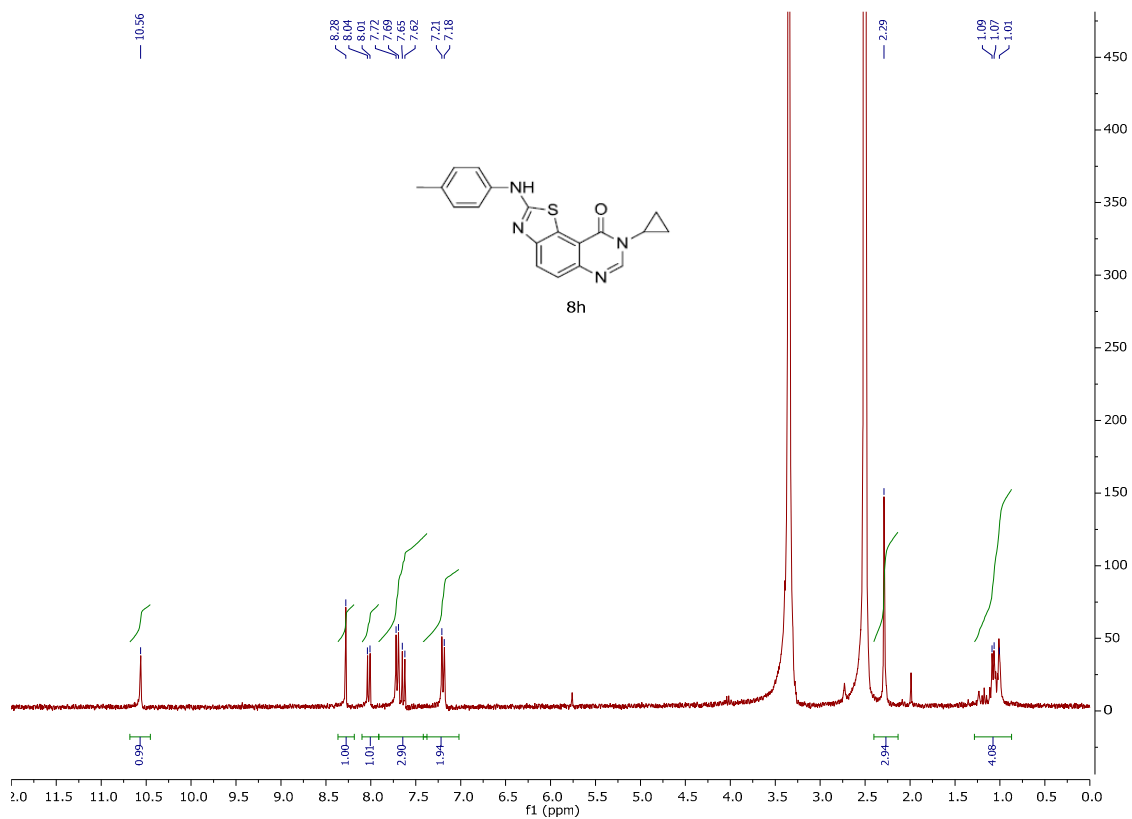
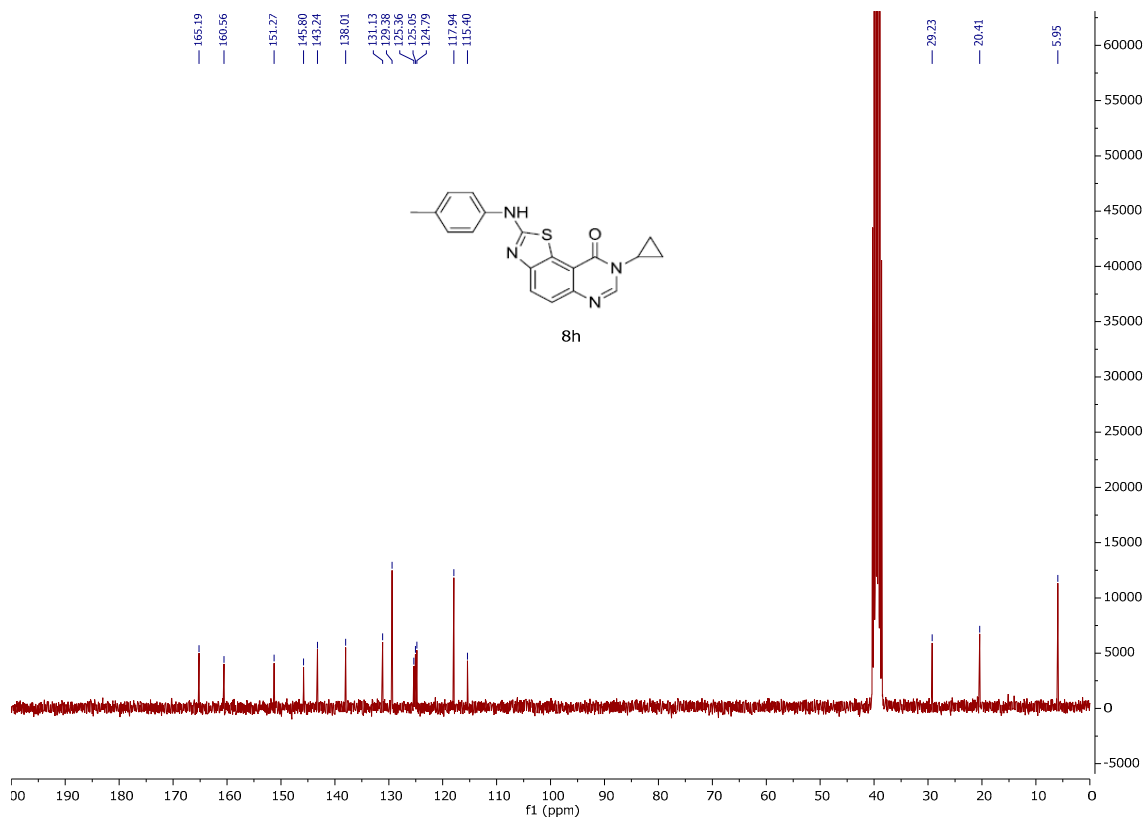


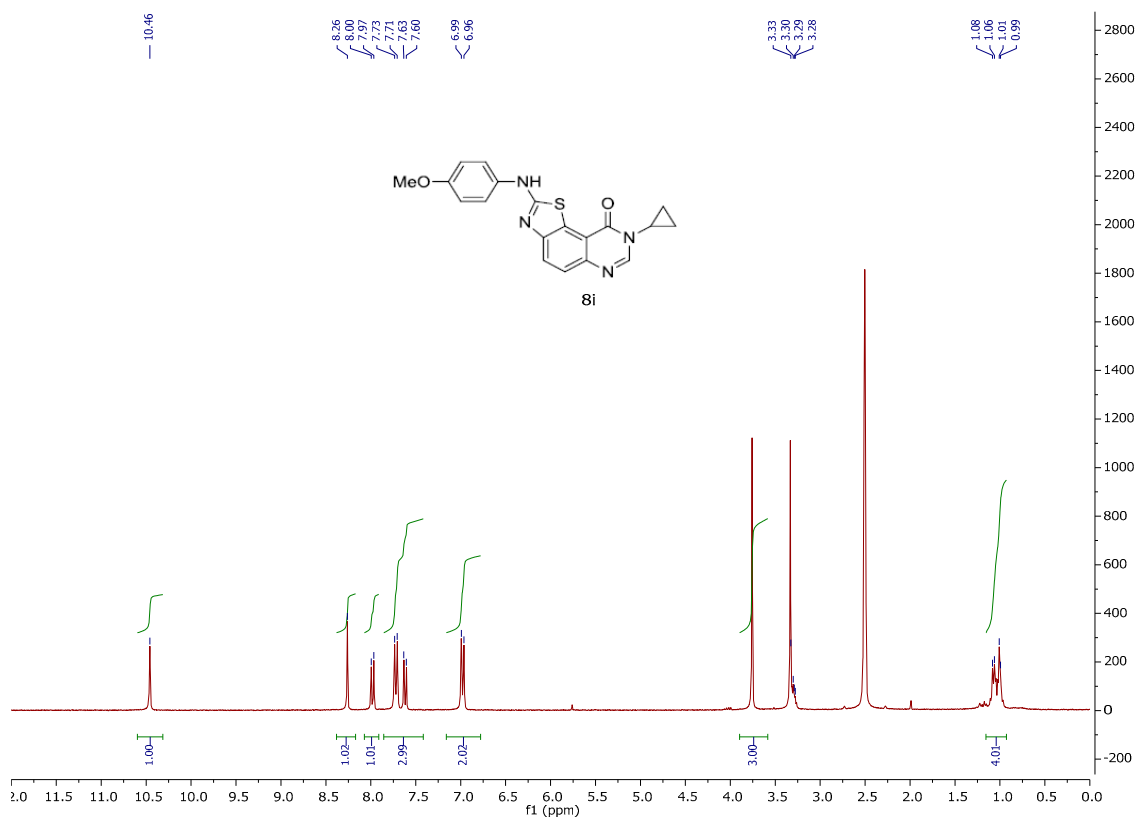
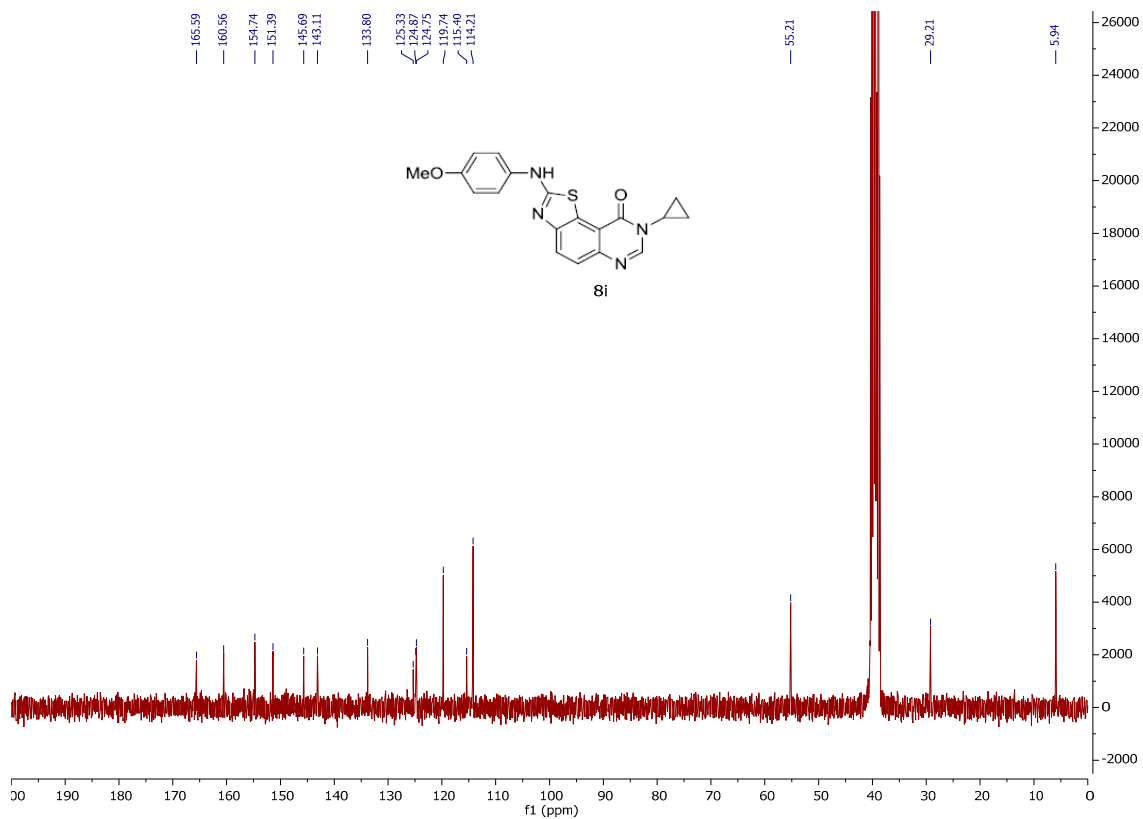
Figure S22. ^{19}F -NMR Compound 8c

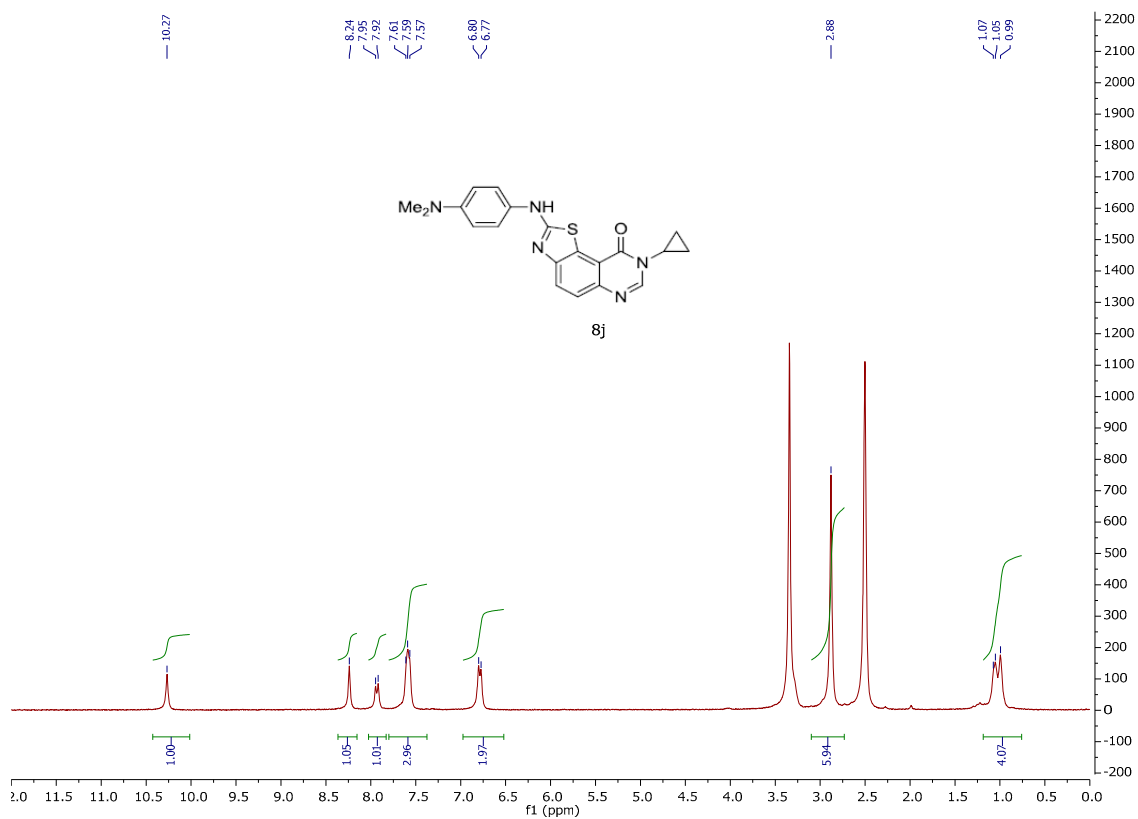
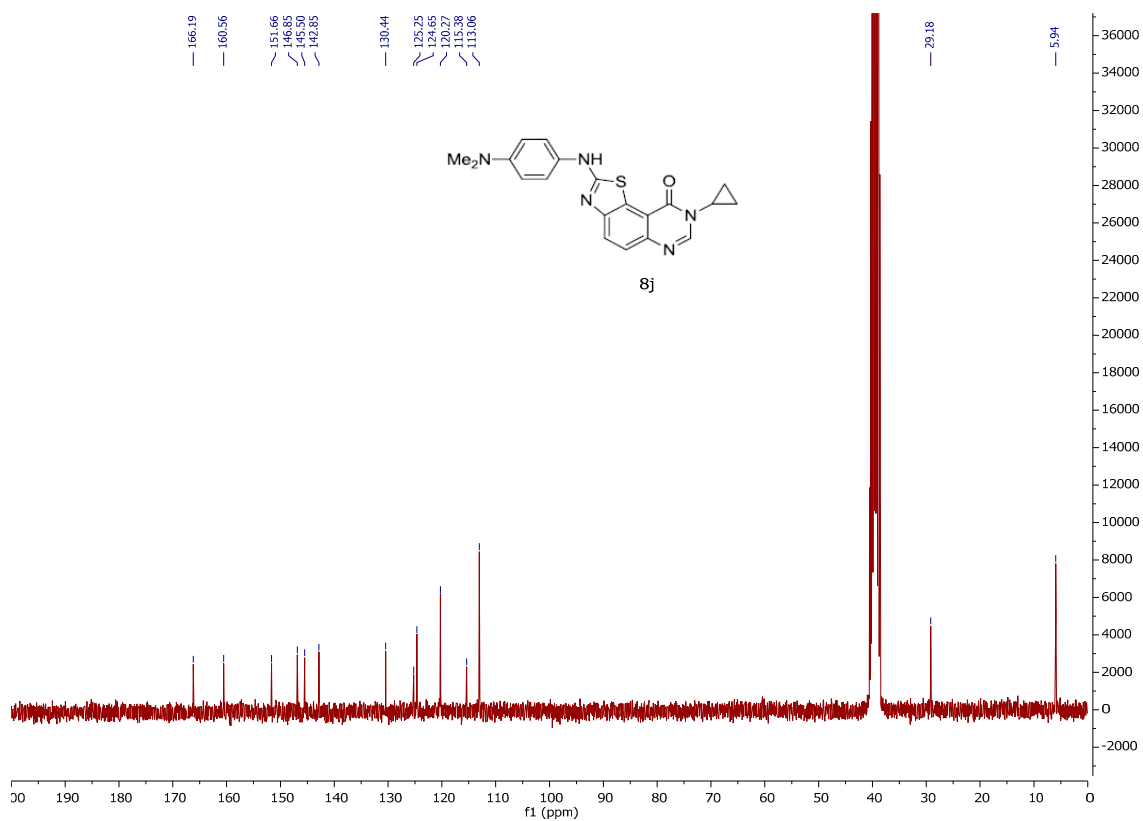


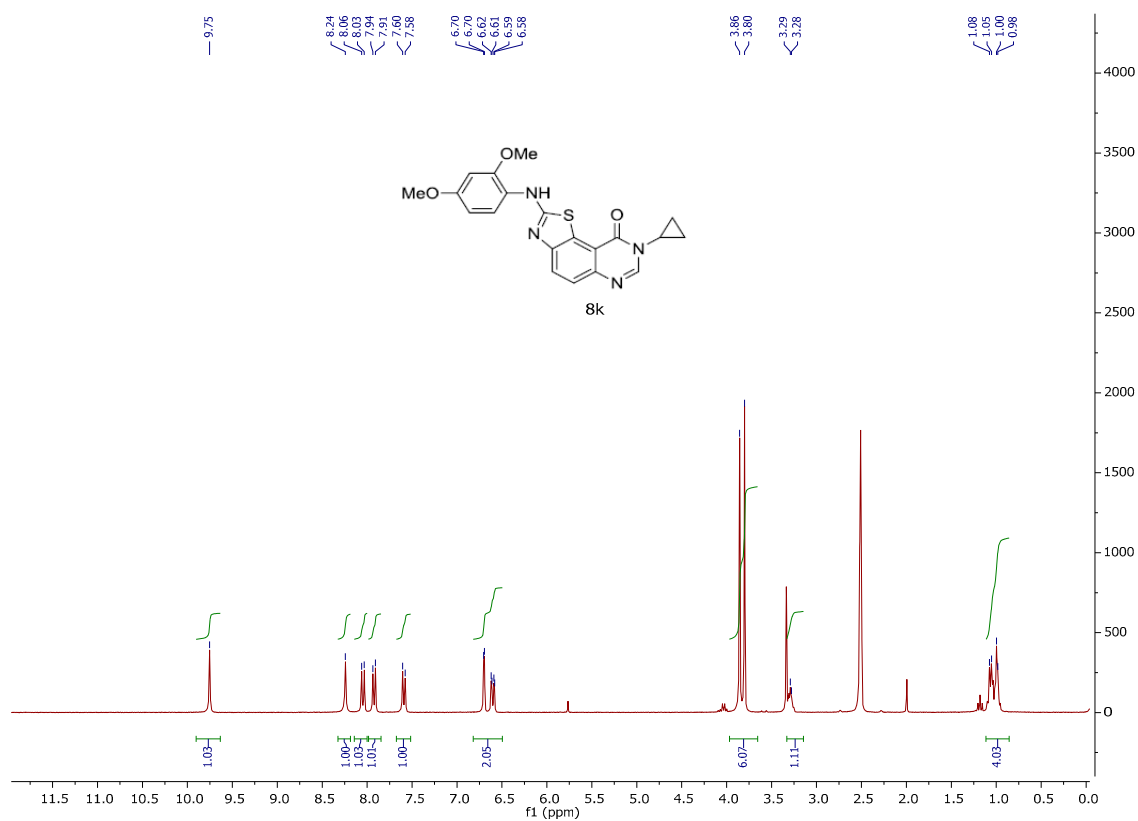
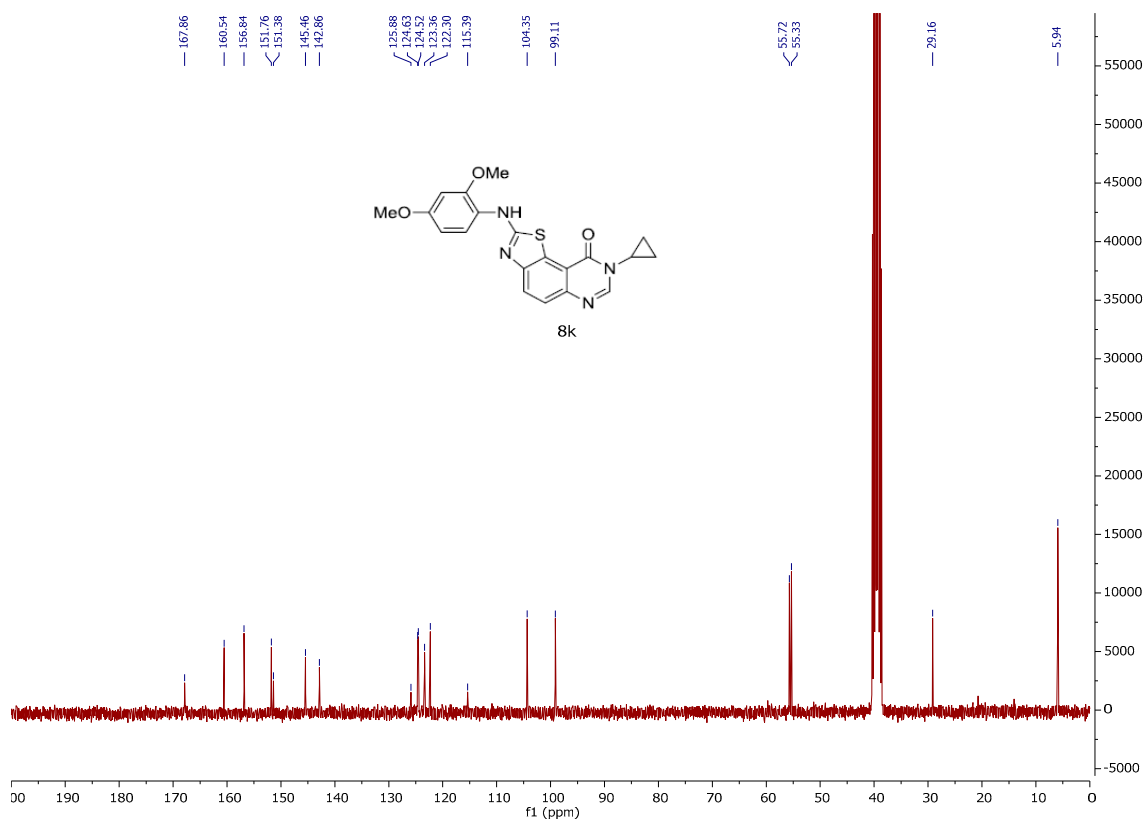
Figure S24. ¹H-NMR and ¹³C-NMR Compound 8f

Figure S25. ¹H-NMR and ¹³C-NMR Compound 8g

Figure S26. $^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ Compound 8h

Figure S27. ¹H-NMR and ¹³C-NMR Compound 8i

Figure S28. ¹H-NMR and ¹³C-NMR Compound 8j

Figure S29. $^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ Compound 8k

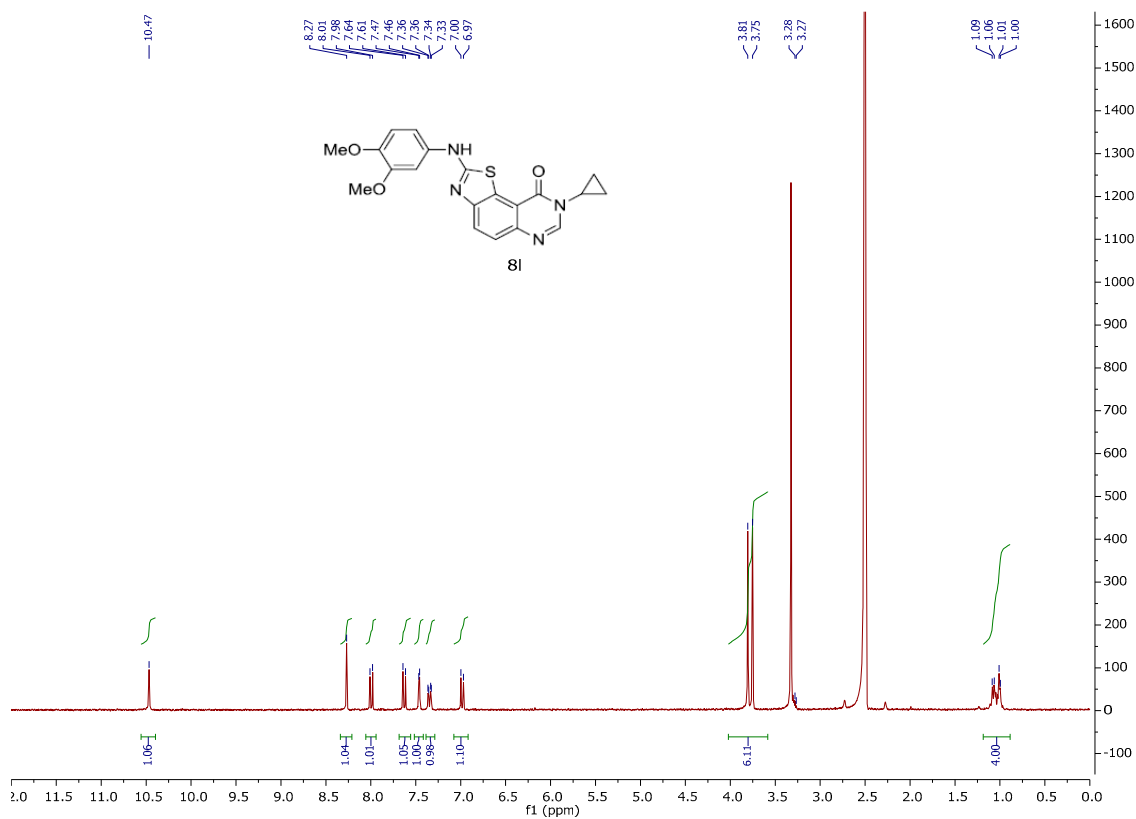
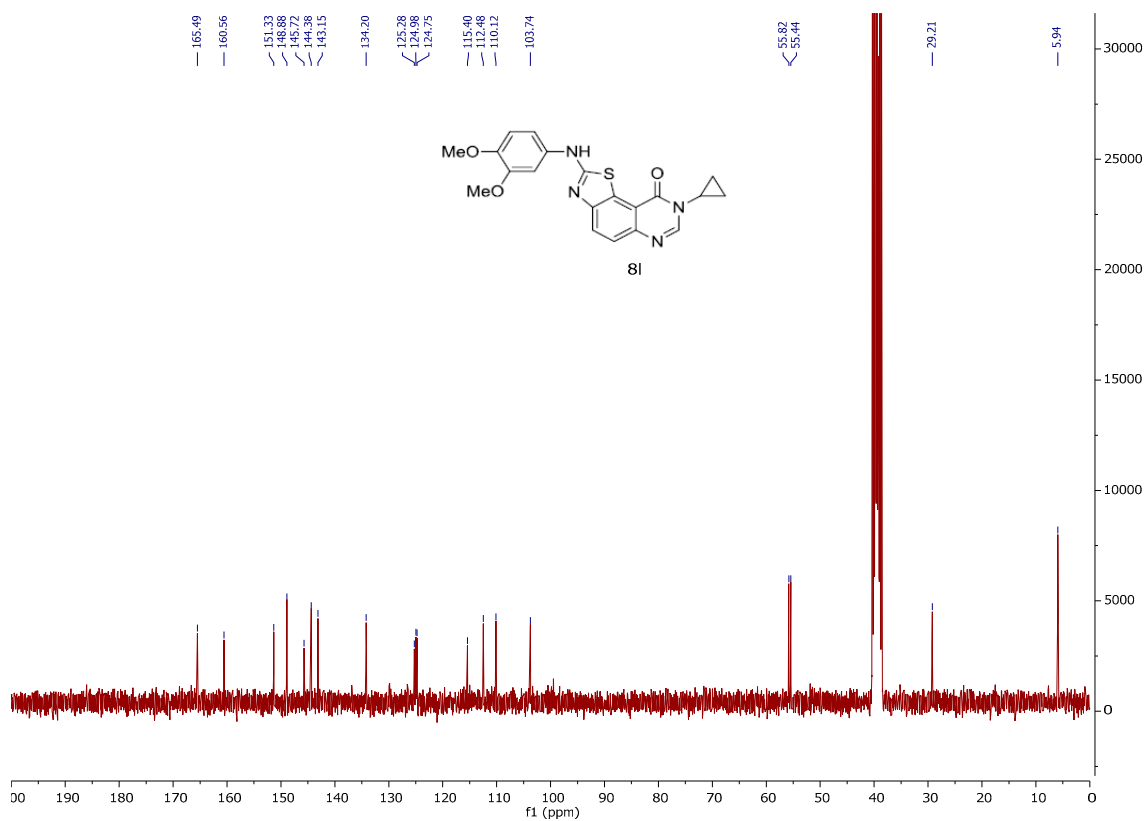
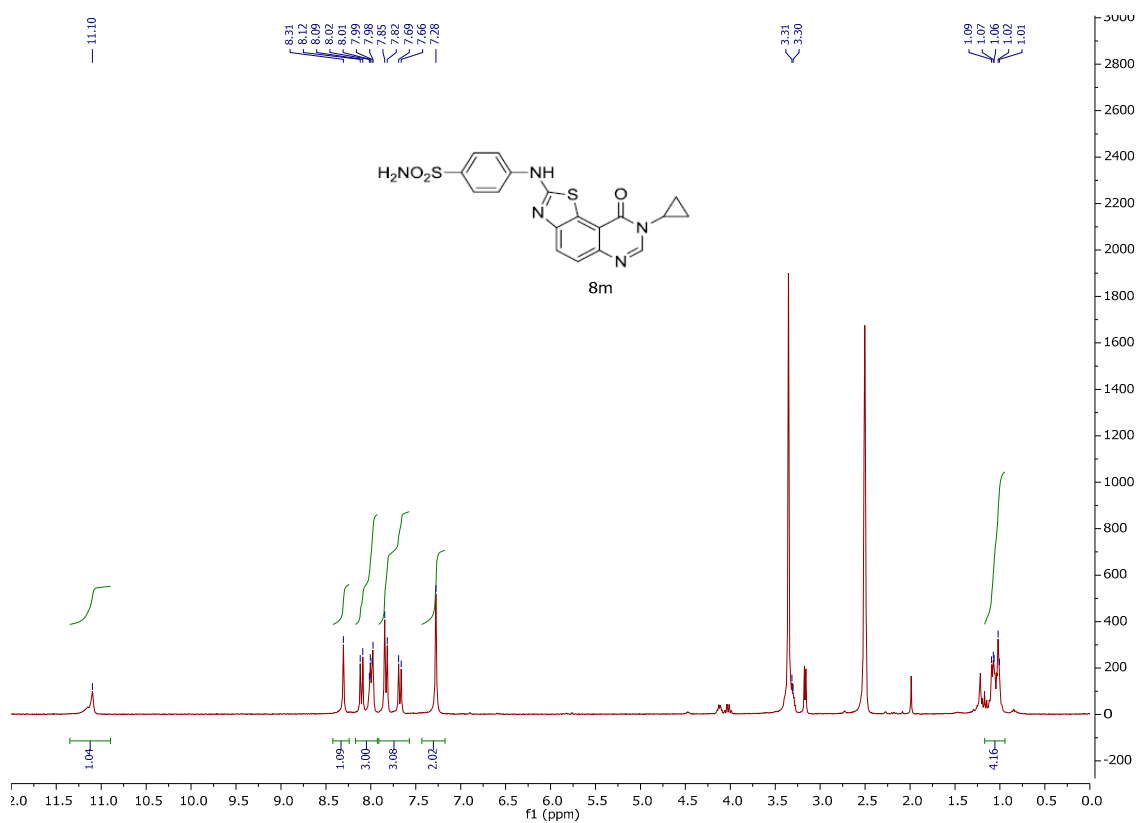
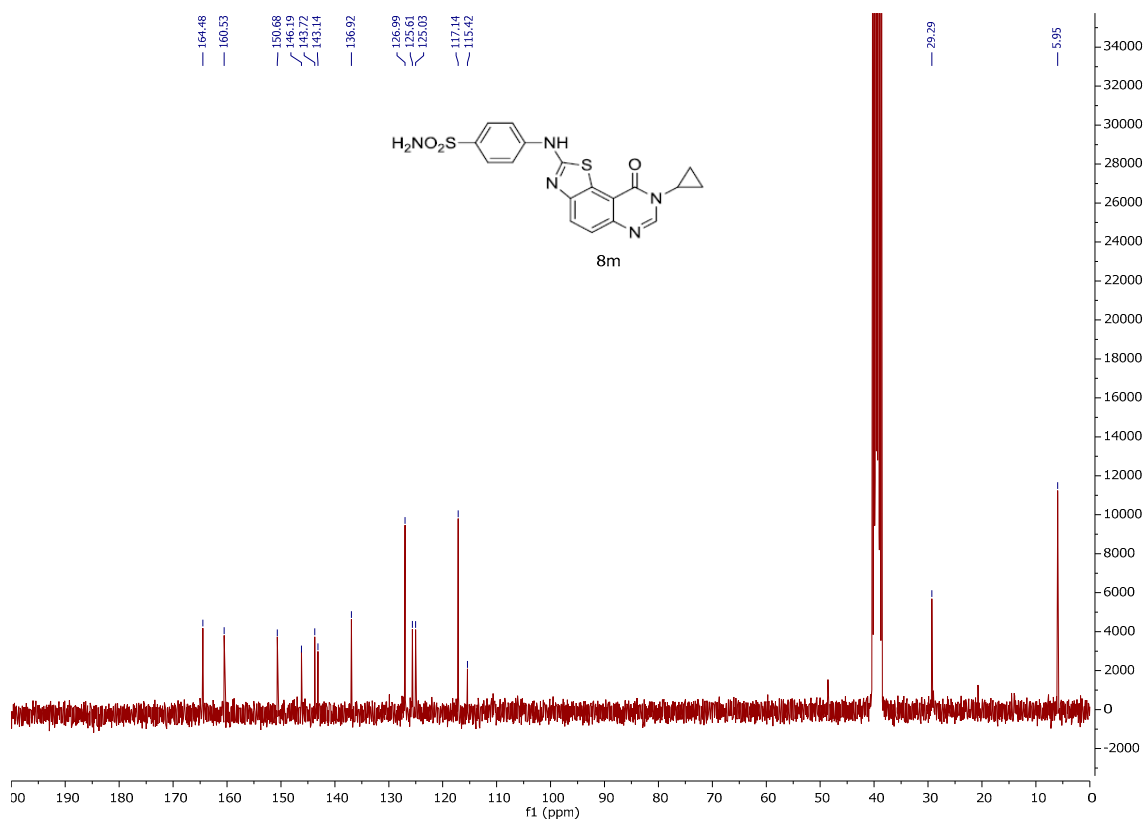
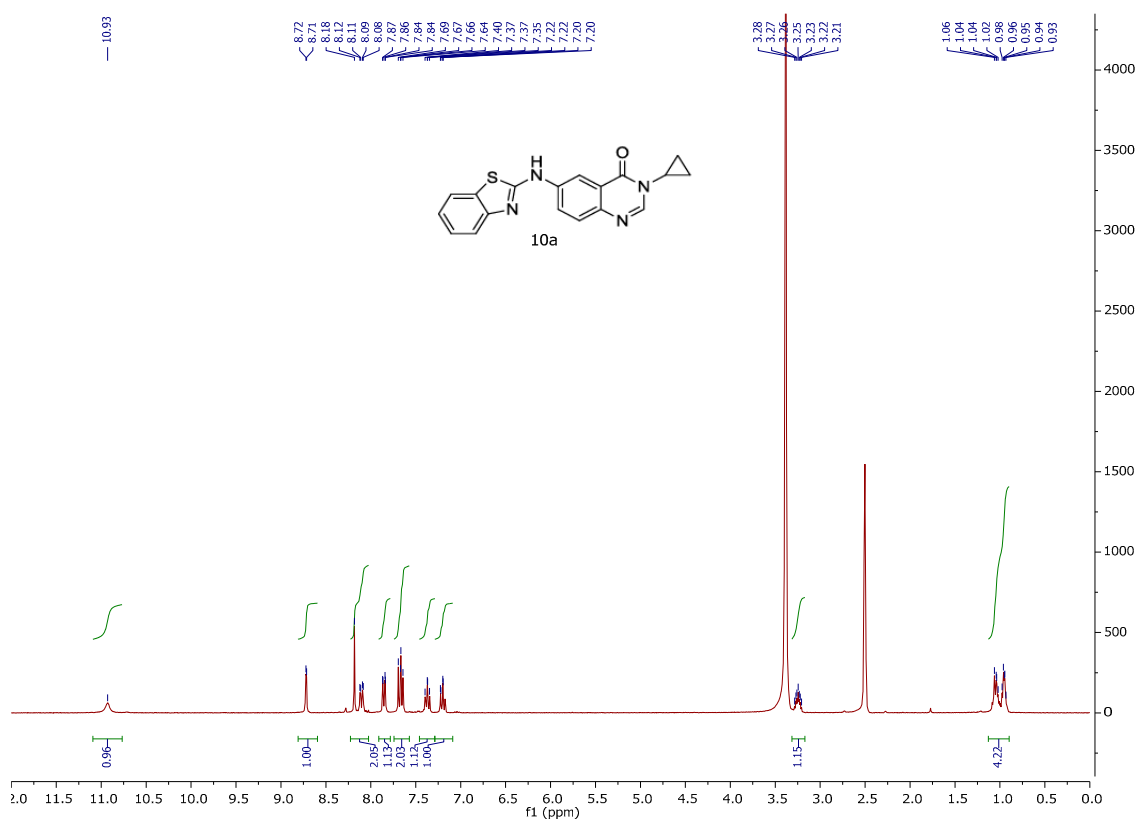
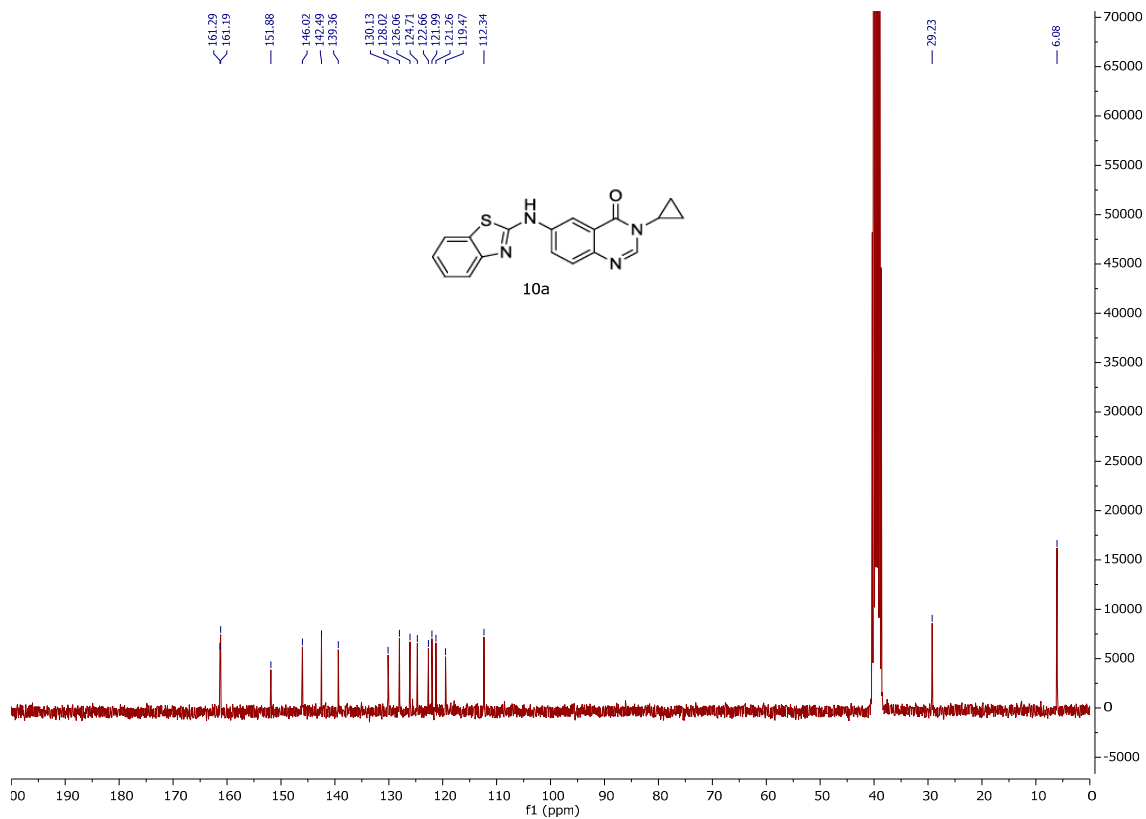
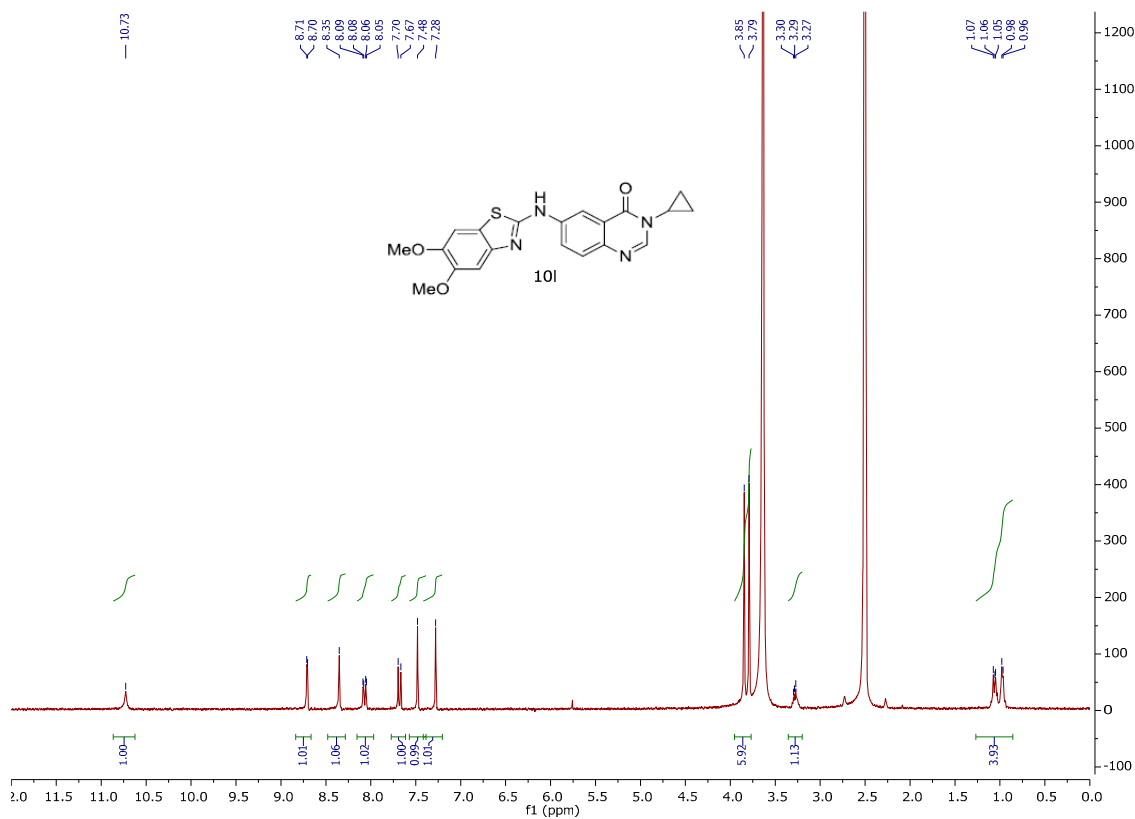
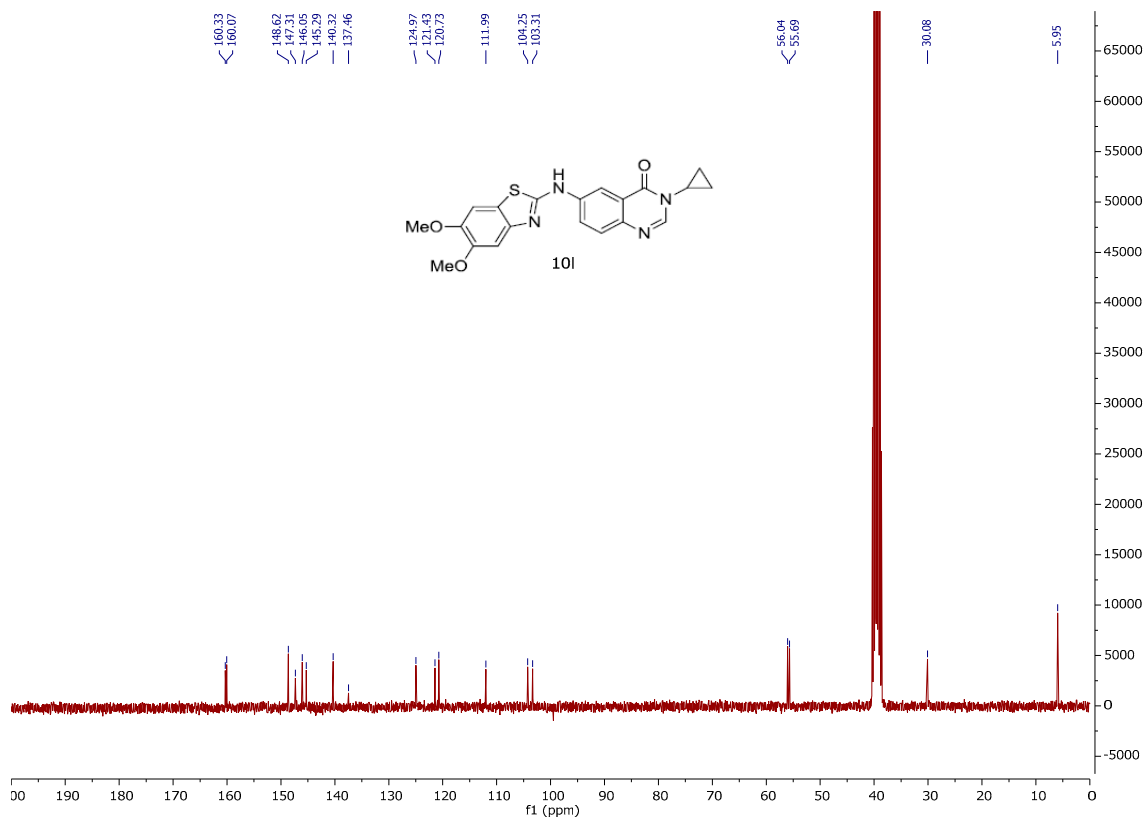


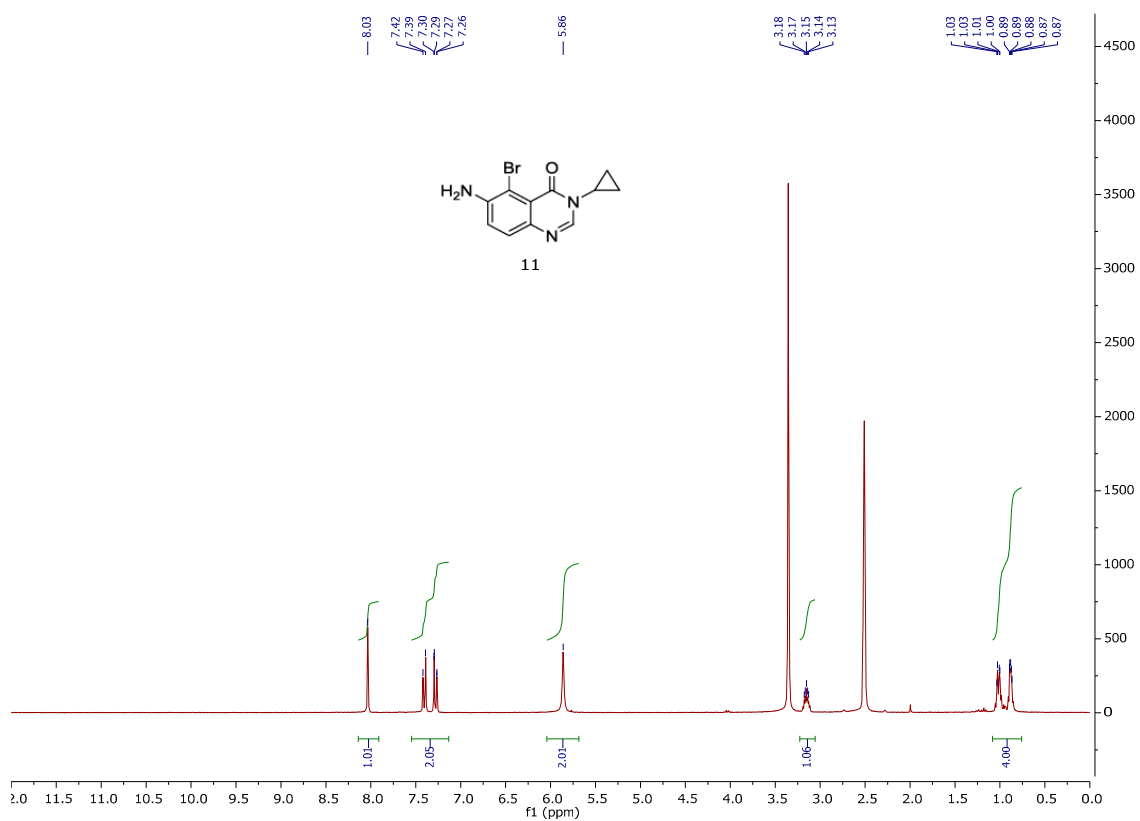
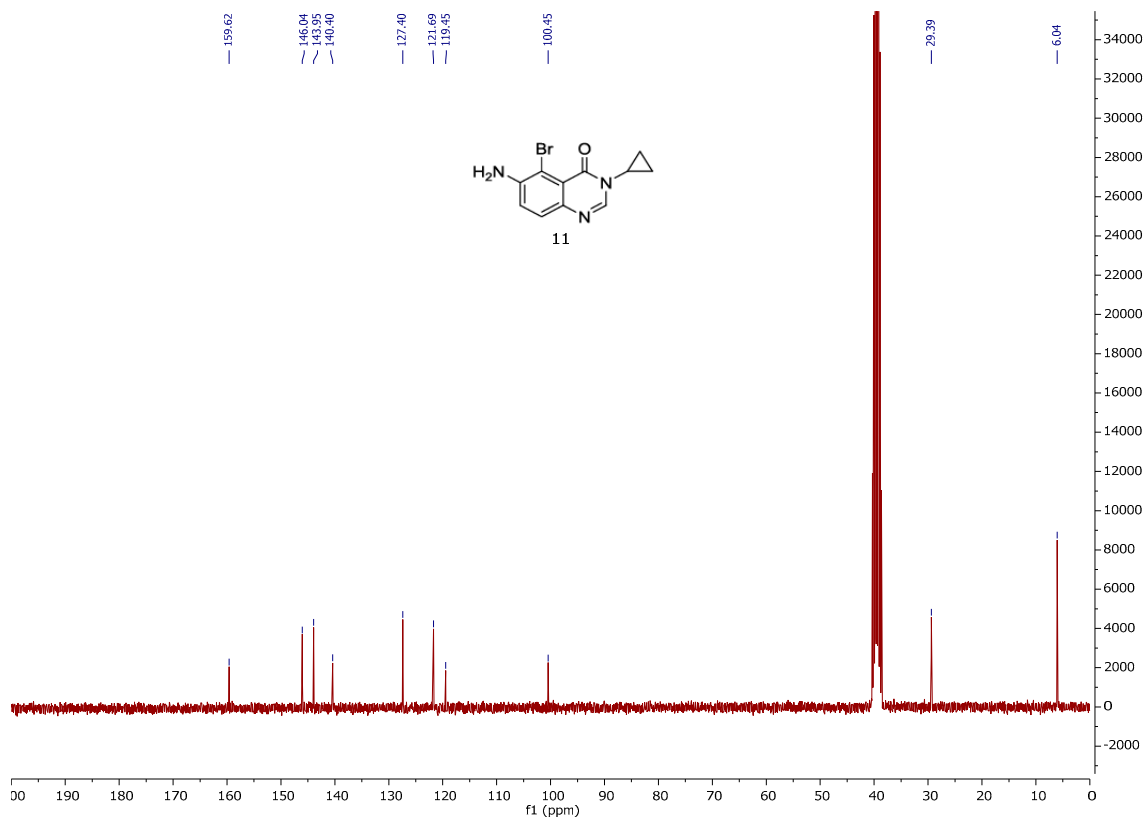
Figure S30. $^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ Compound **8I**



Figure S31. $^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ Compound 8m

Figure S32. ¹H-NMR and ¹³C-NMR Compound 10a

Figure S33. ¹H-NMR and ¹³C-NMR Compound 10I

Figure S34. ¹H-NMR and ¹³C-NMR Compound 11

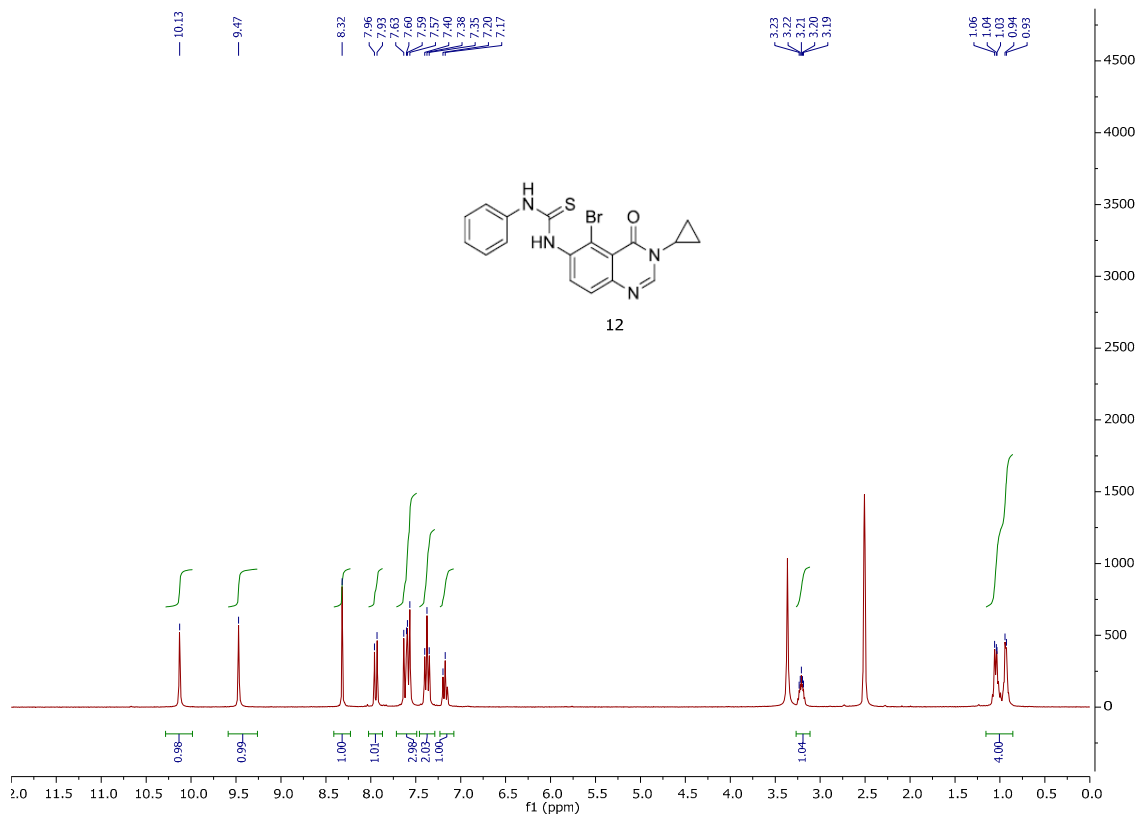
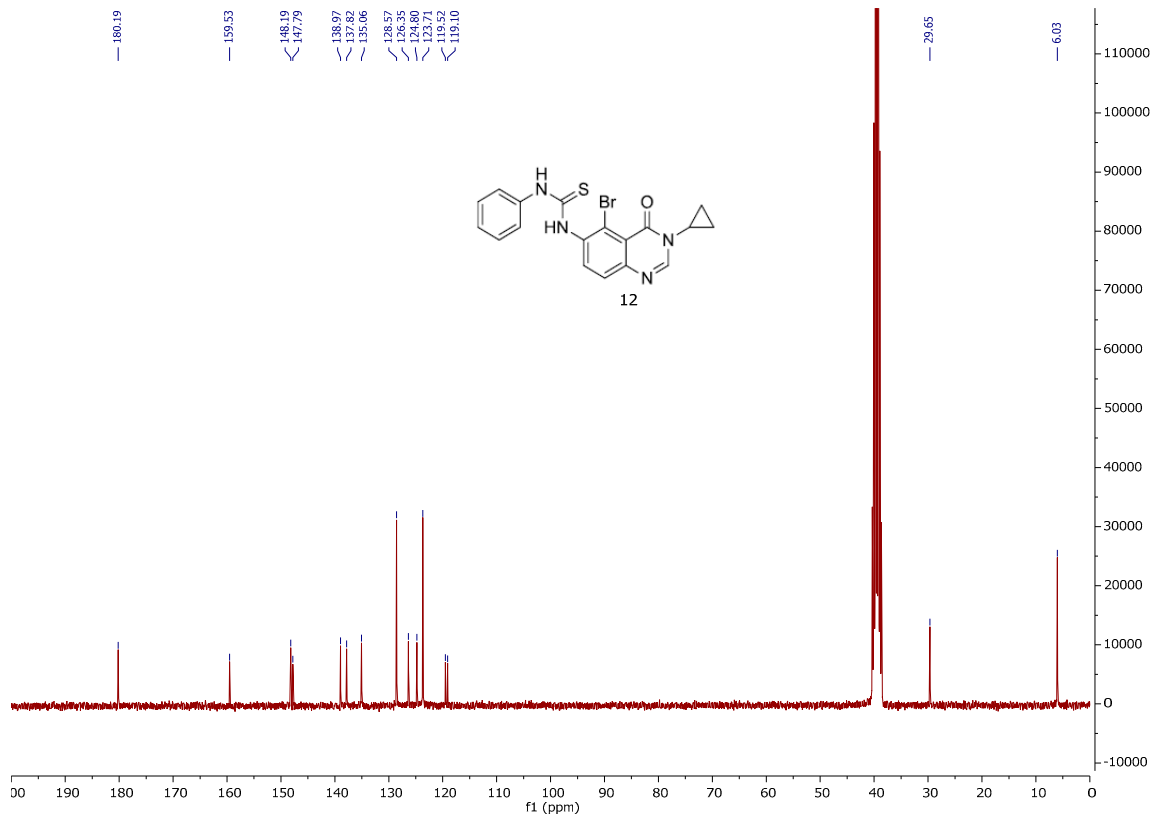
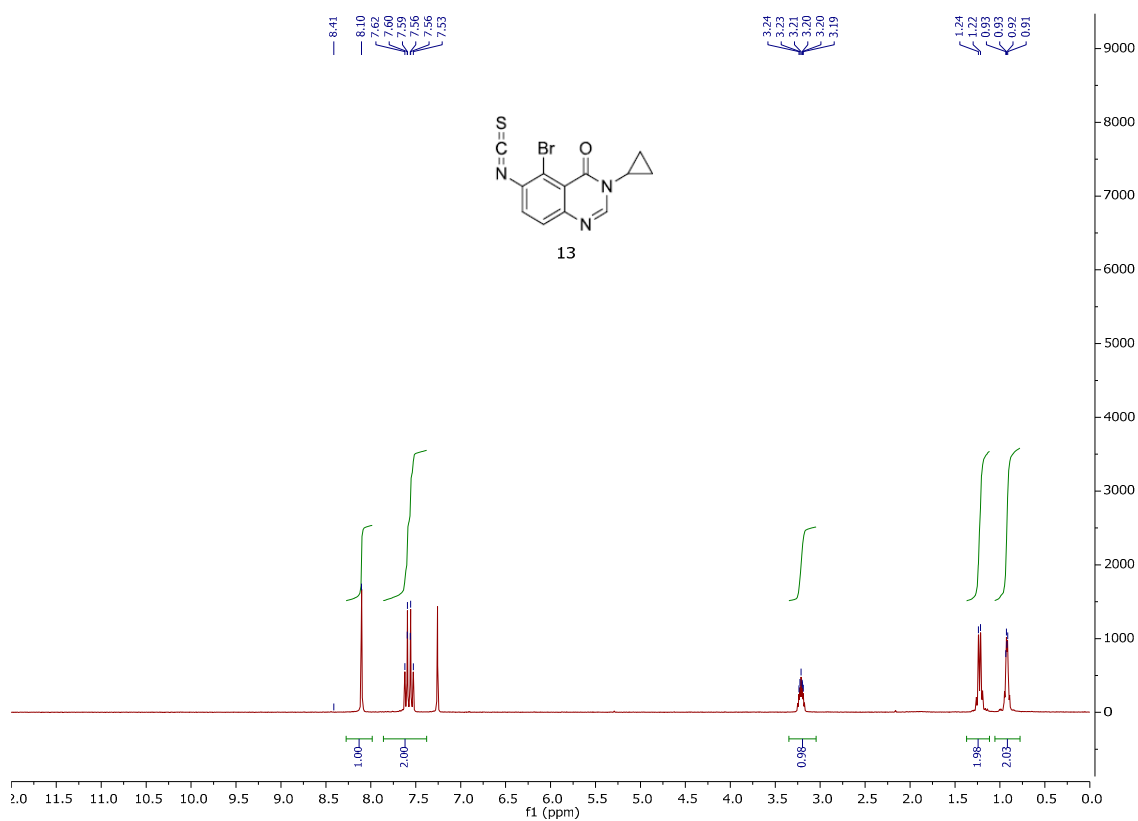
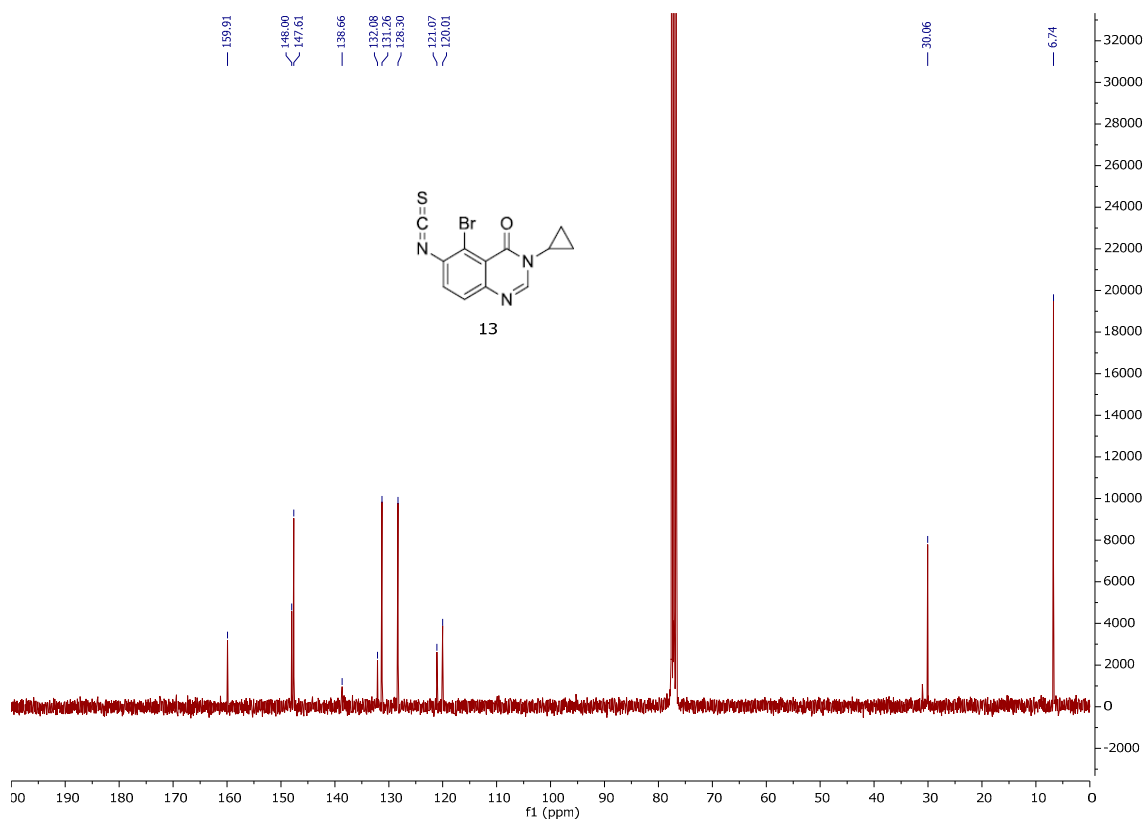
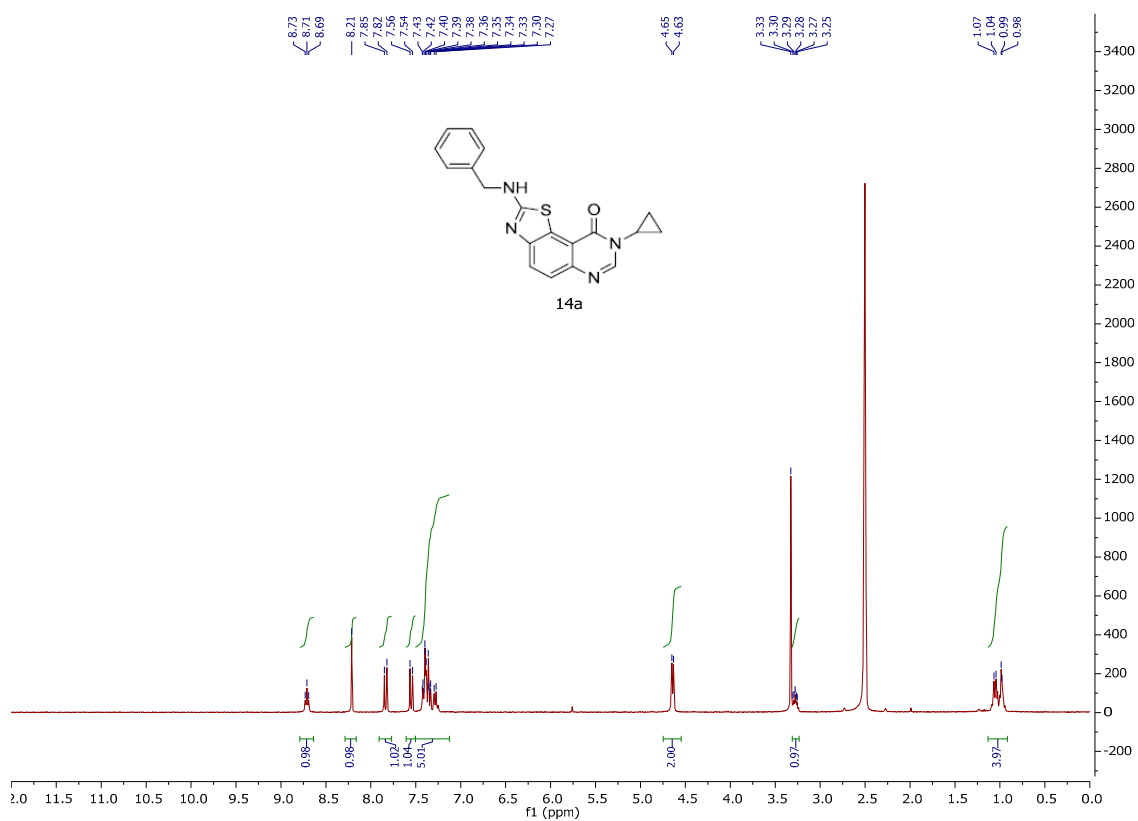
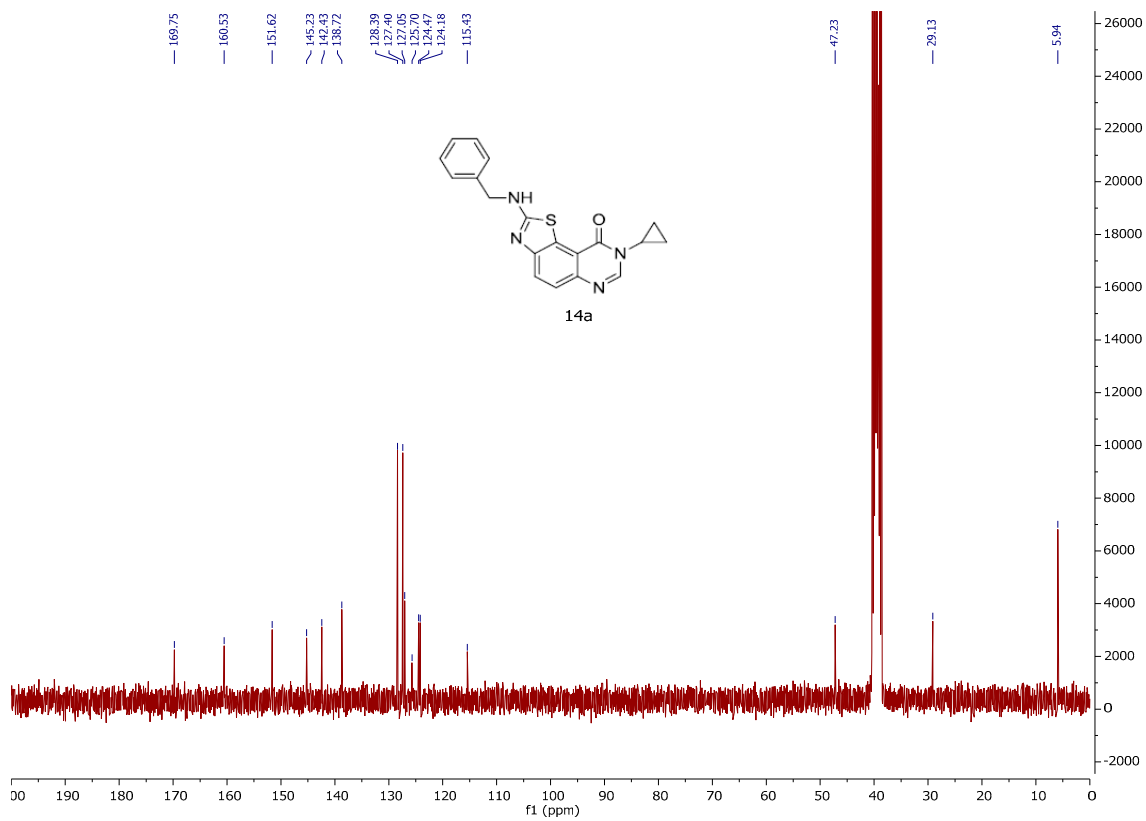
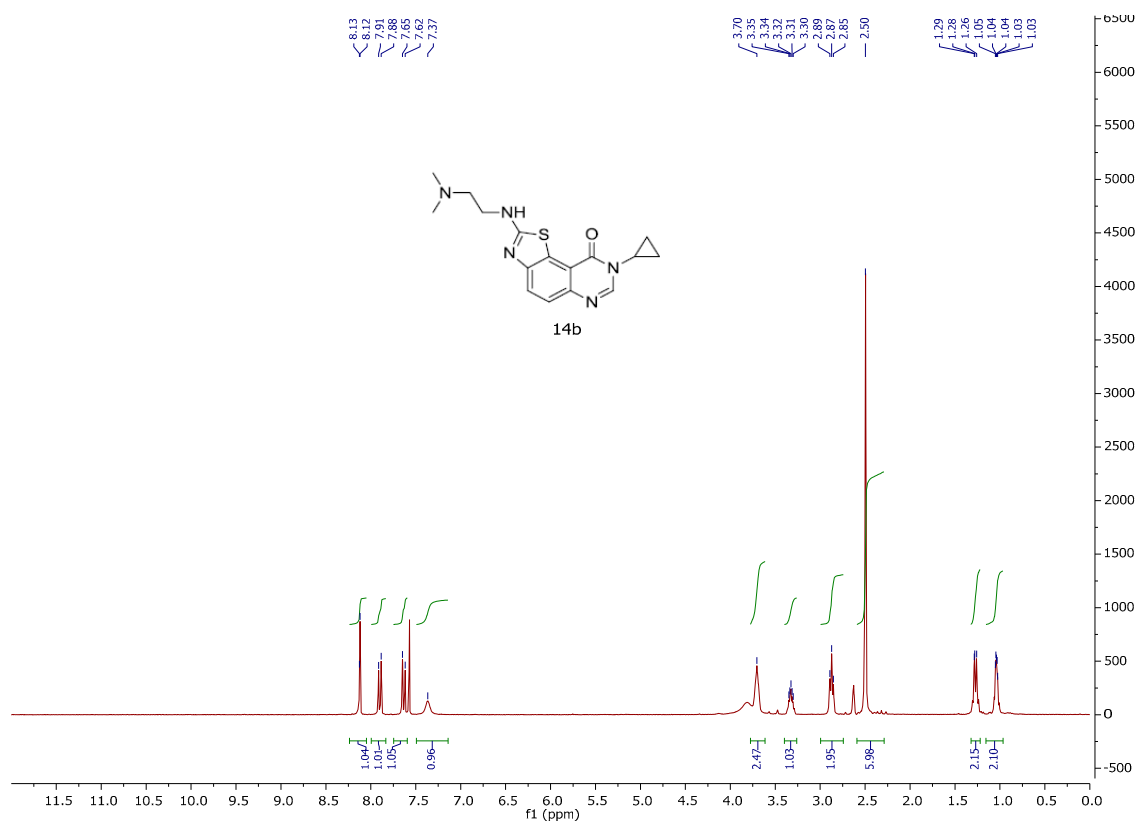
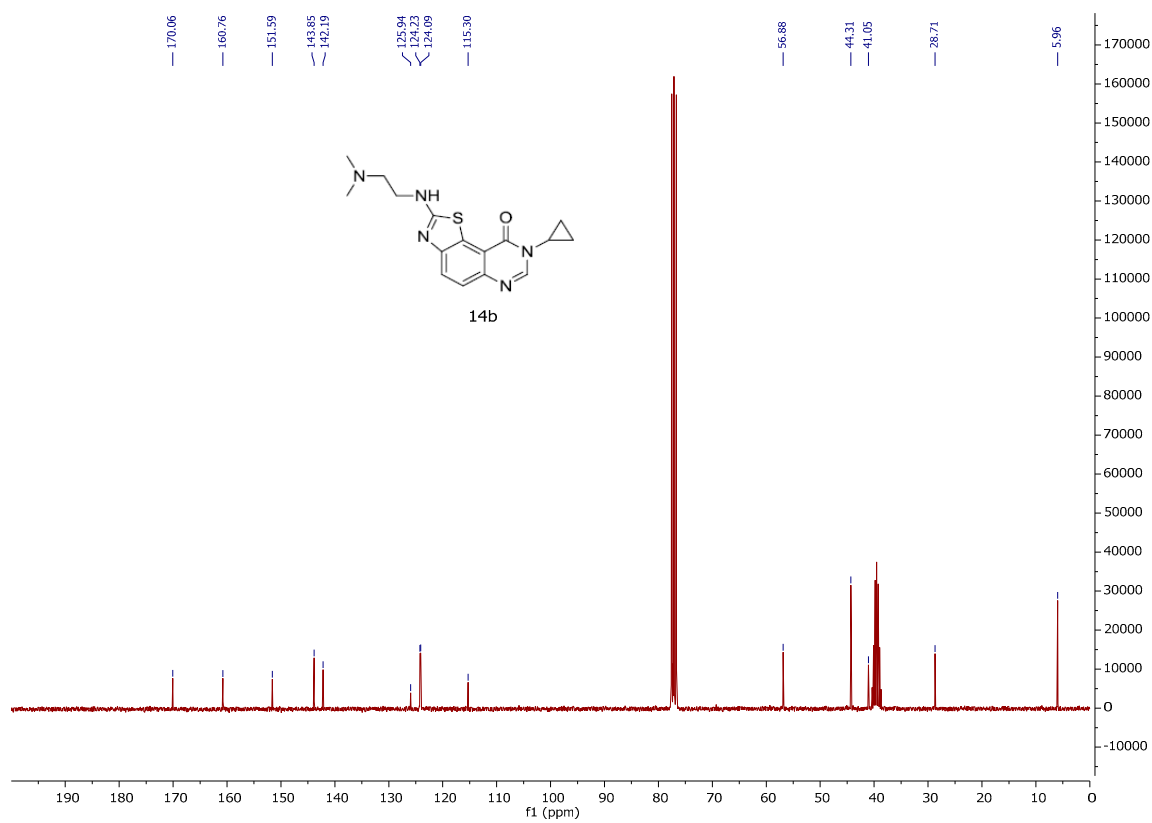


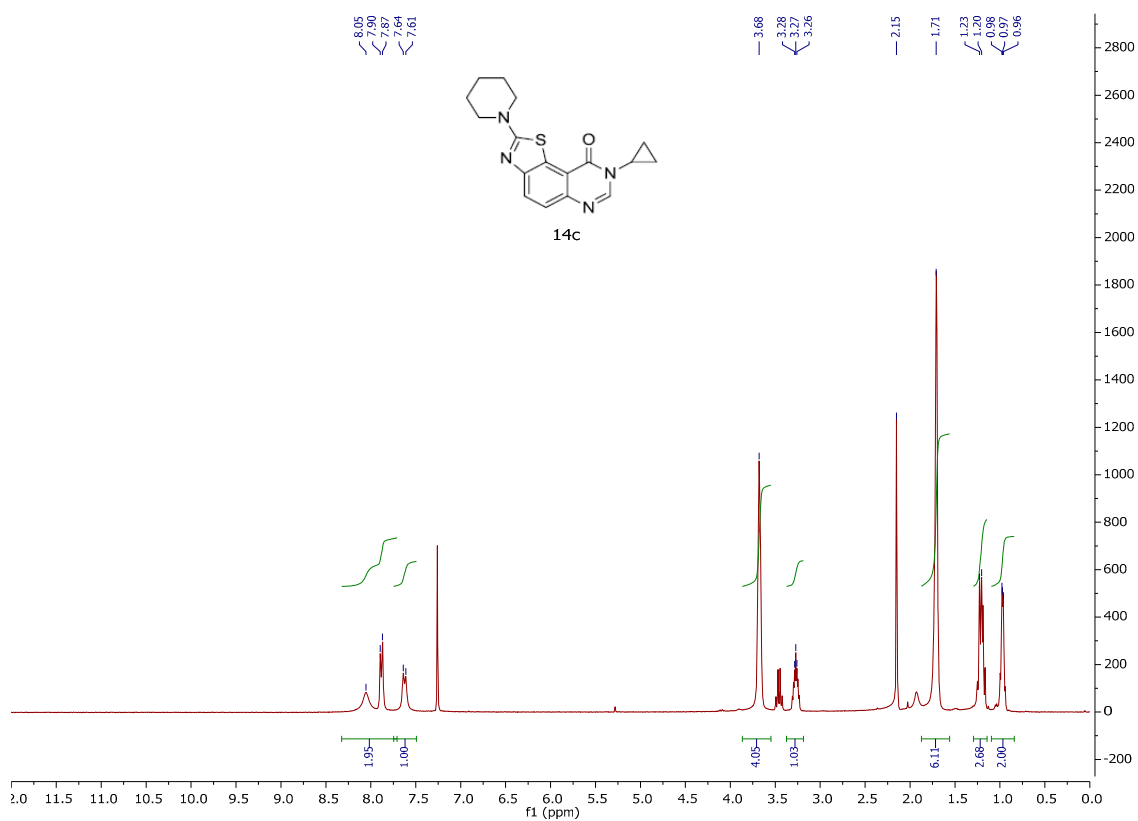
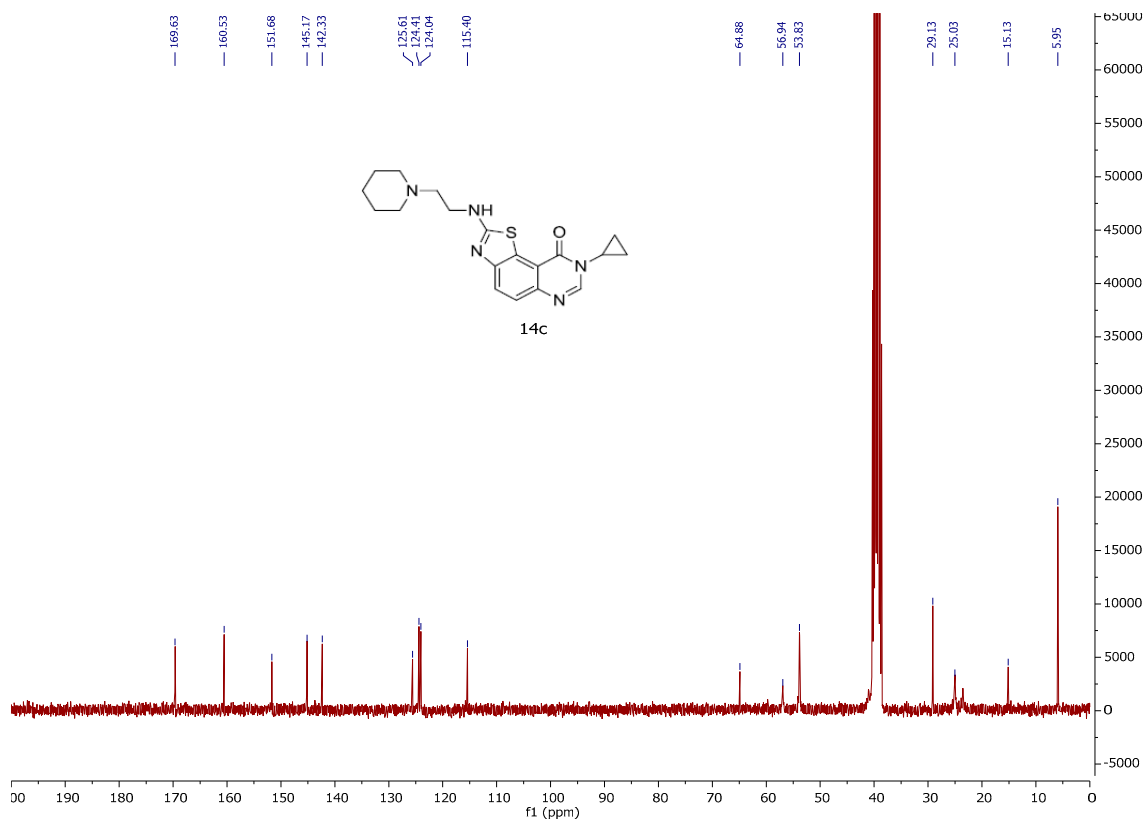
Figure S35. $^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ Compound 12

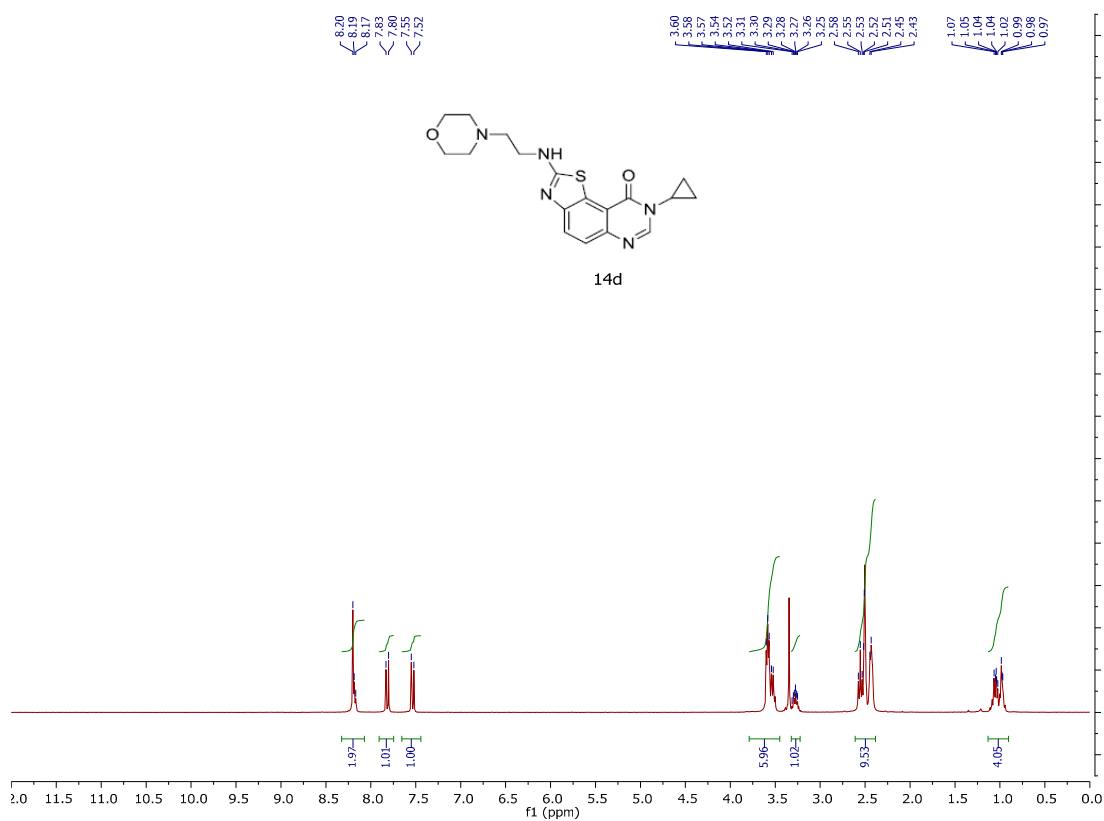
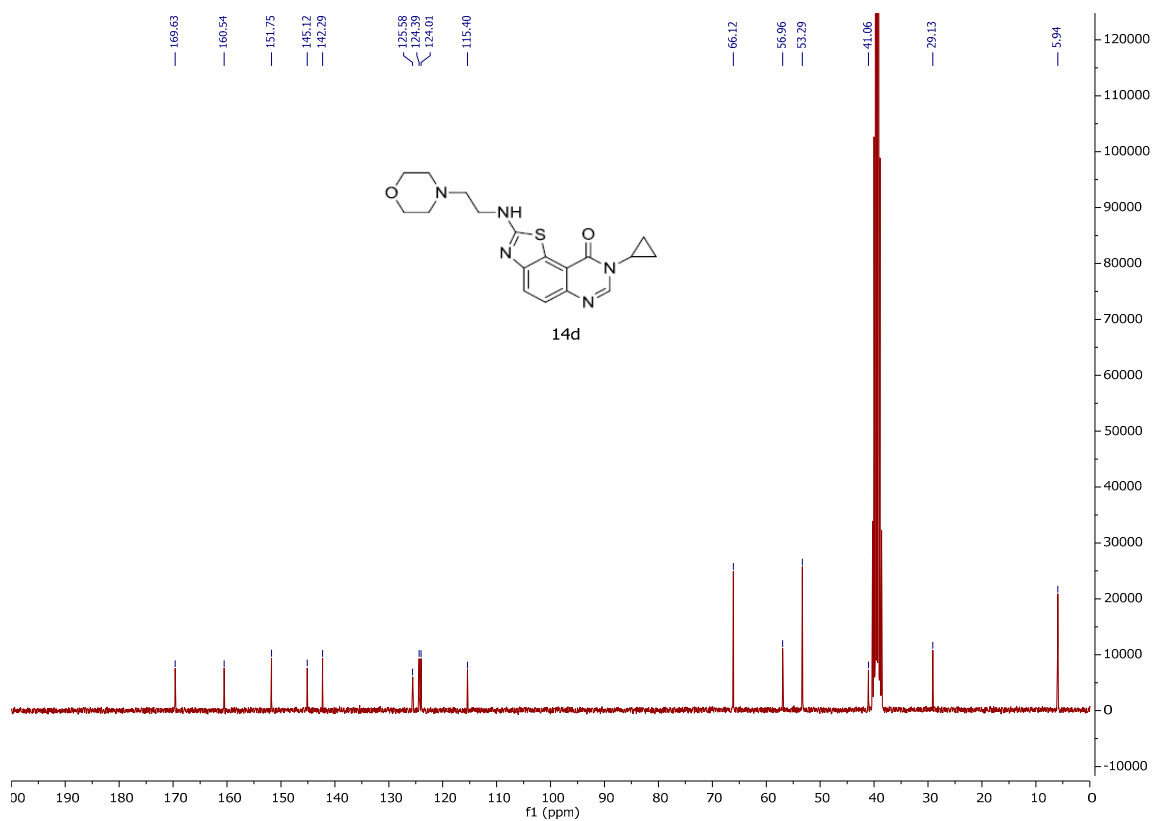


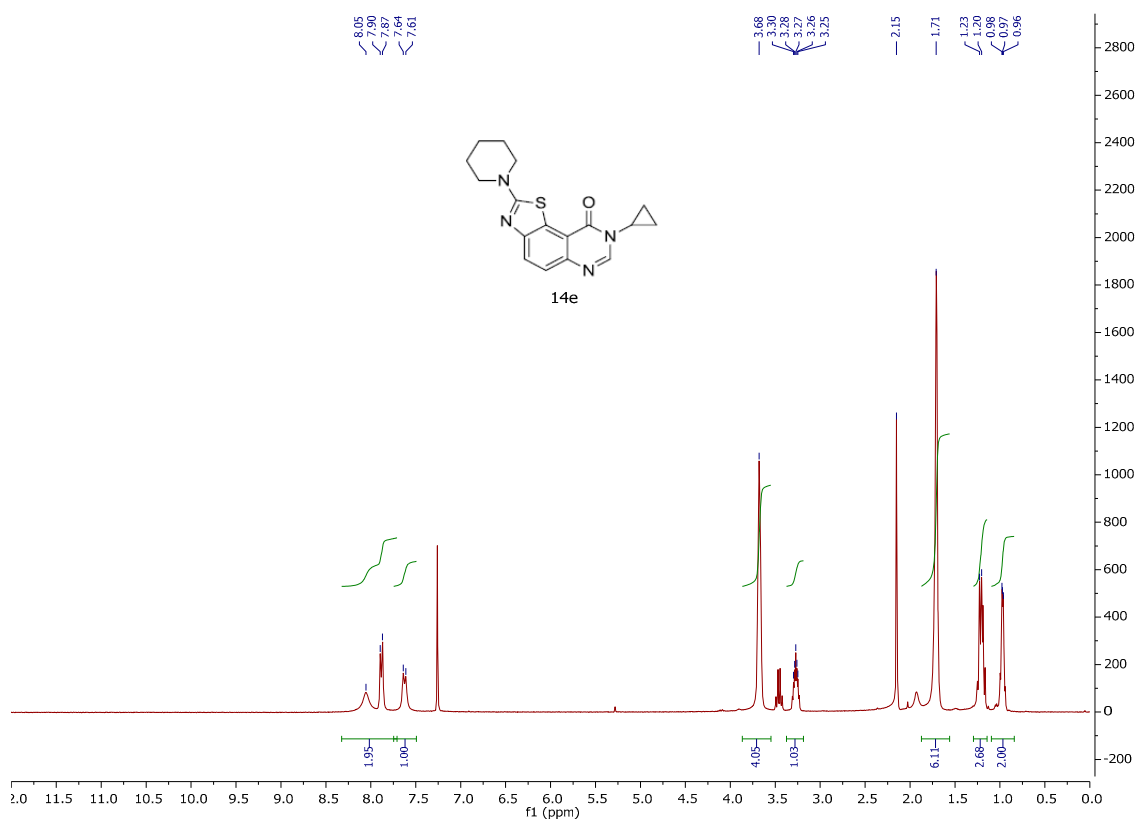
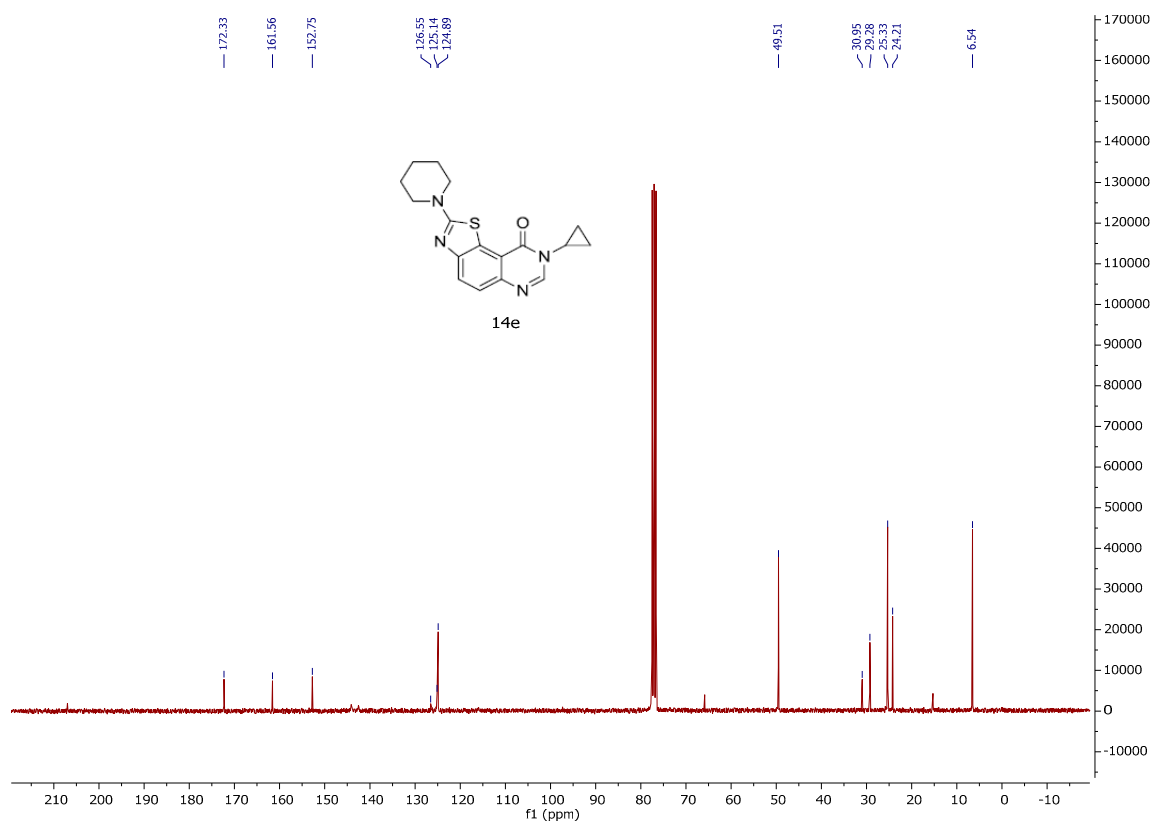
Figure S36. ¹H-NMR and ¹³C-NMR Compound 13

Figure S37. ¹H-NMR and ¹³C-NMR Compound 14a

Figure S38. ^1H -NMR and ^{13}C -NMR Compound 14b

Figure S39. ¹H-NMR and ¹³C-NMR Compound 14c

Figure S40. ¹H-NMR and ¹³C-NMR Compound 14d

Figure S41. ^1H -NMR and ^{13}C -NMR Compound 14e

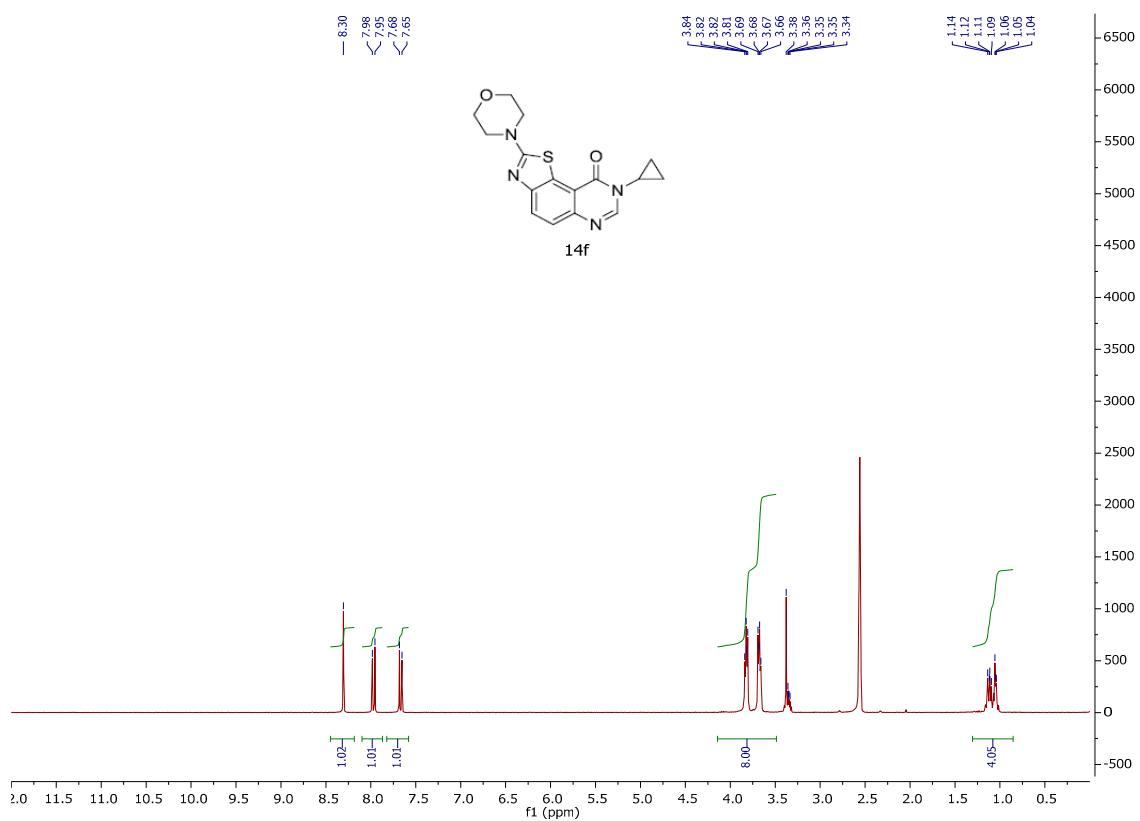
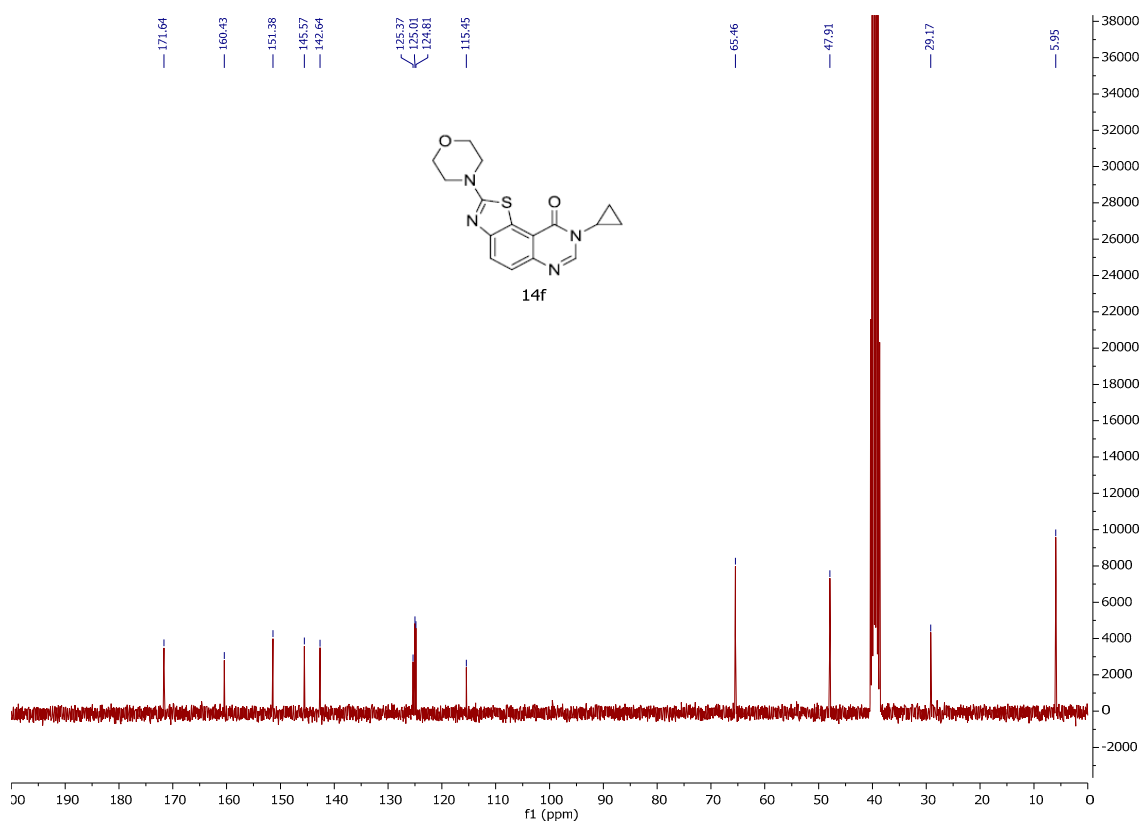
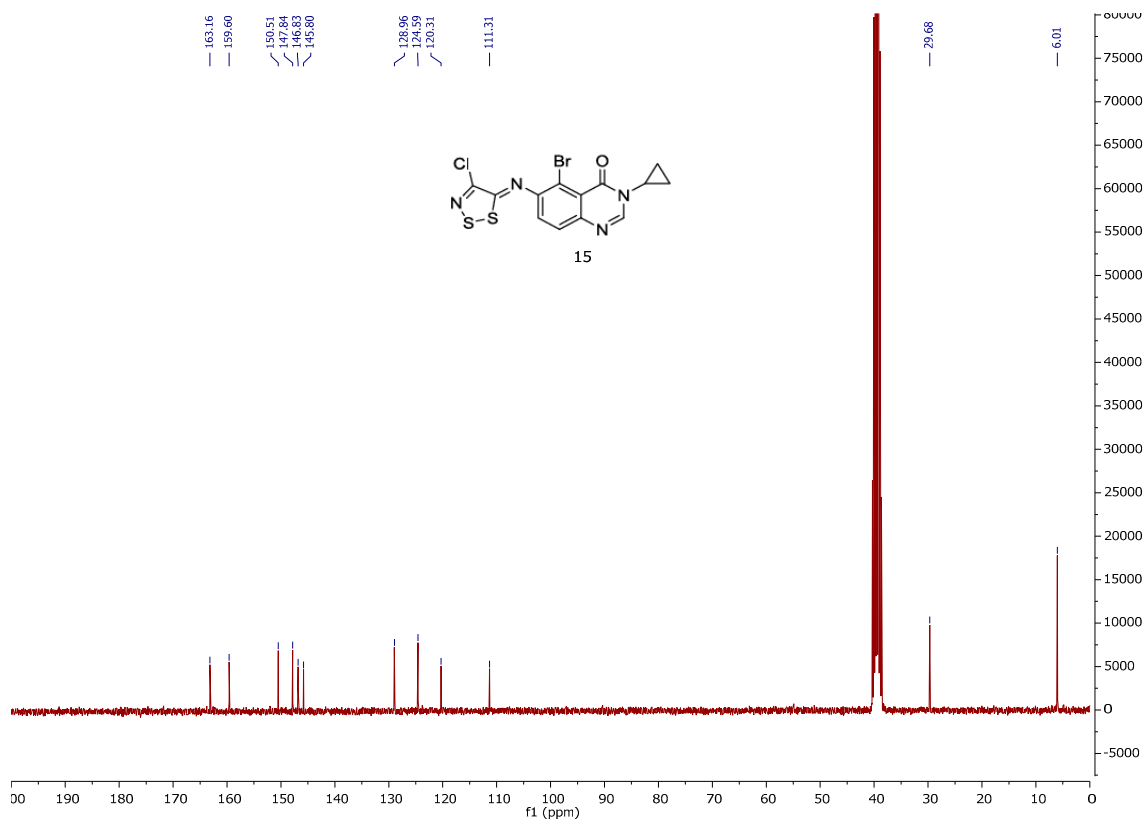
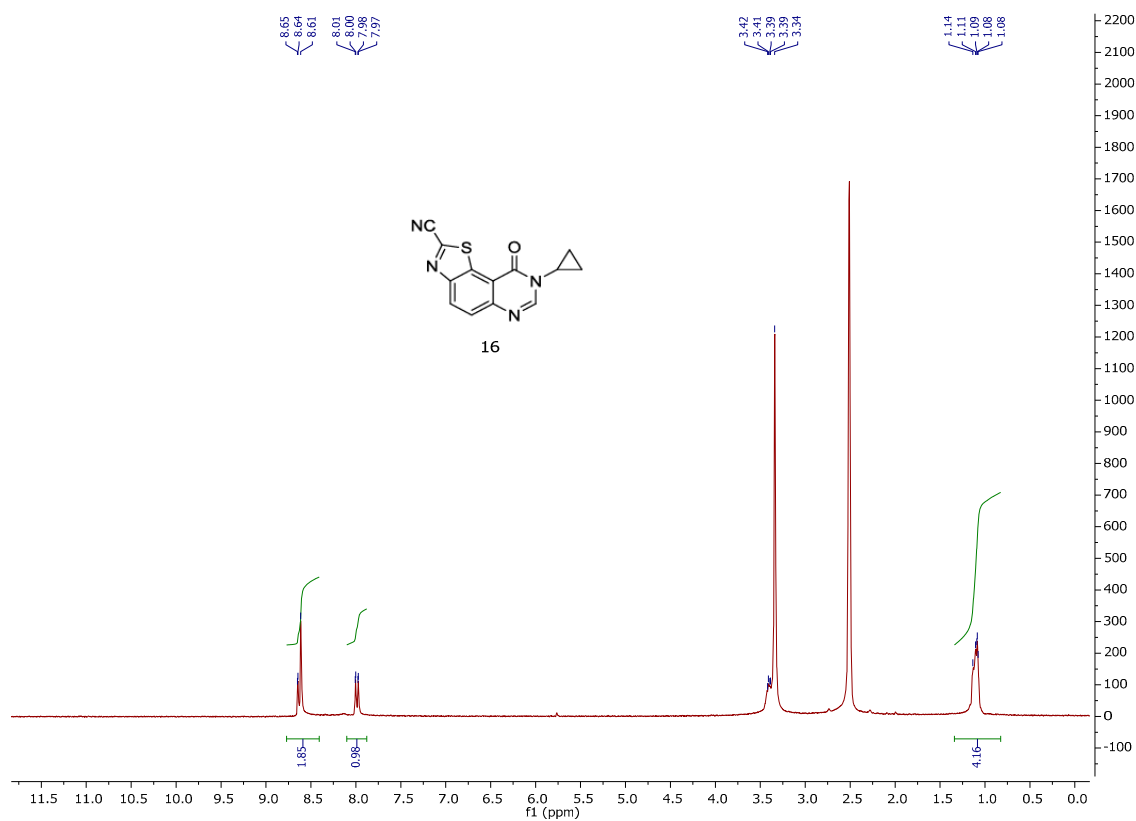
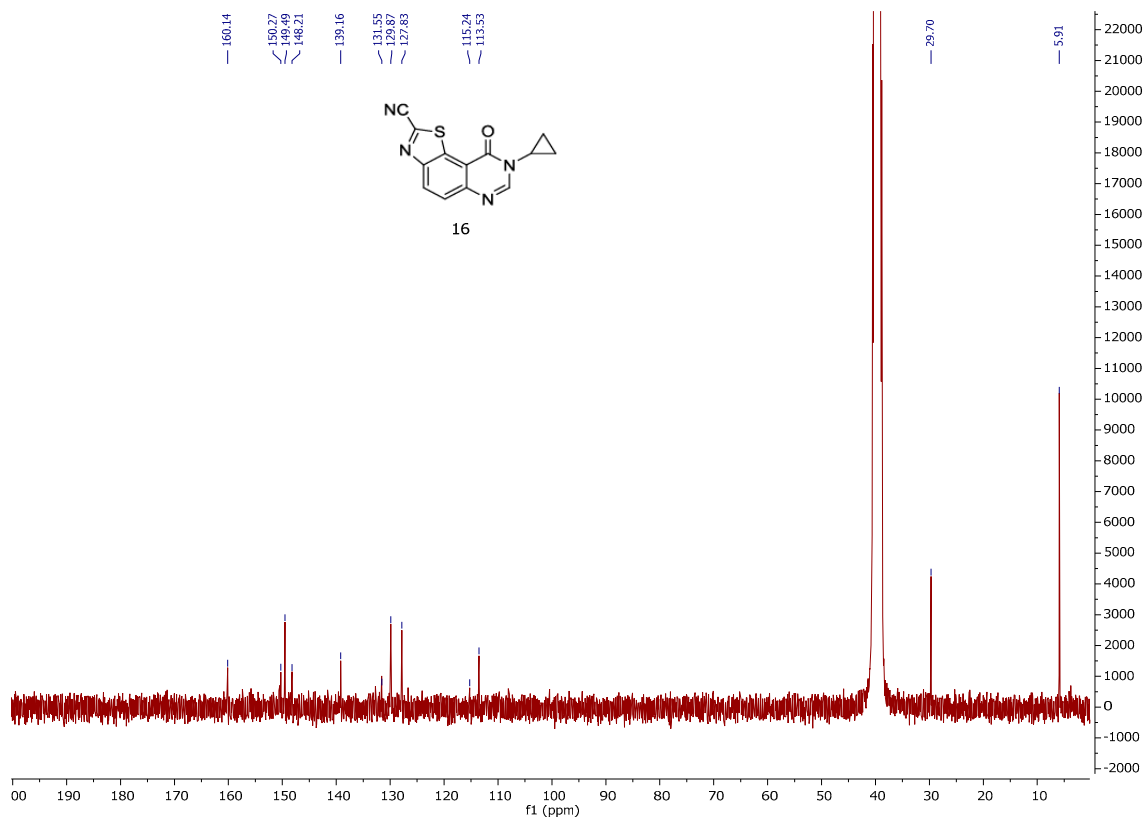
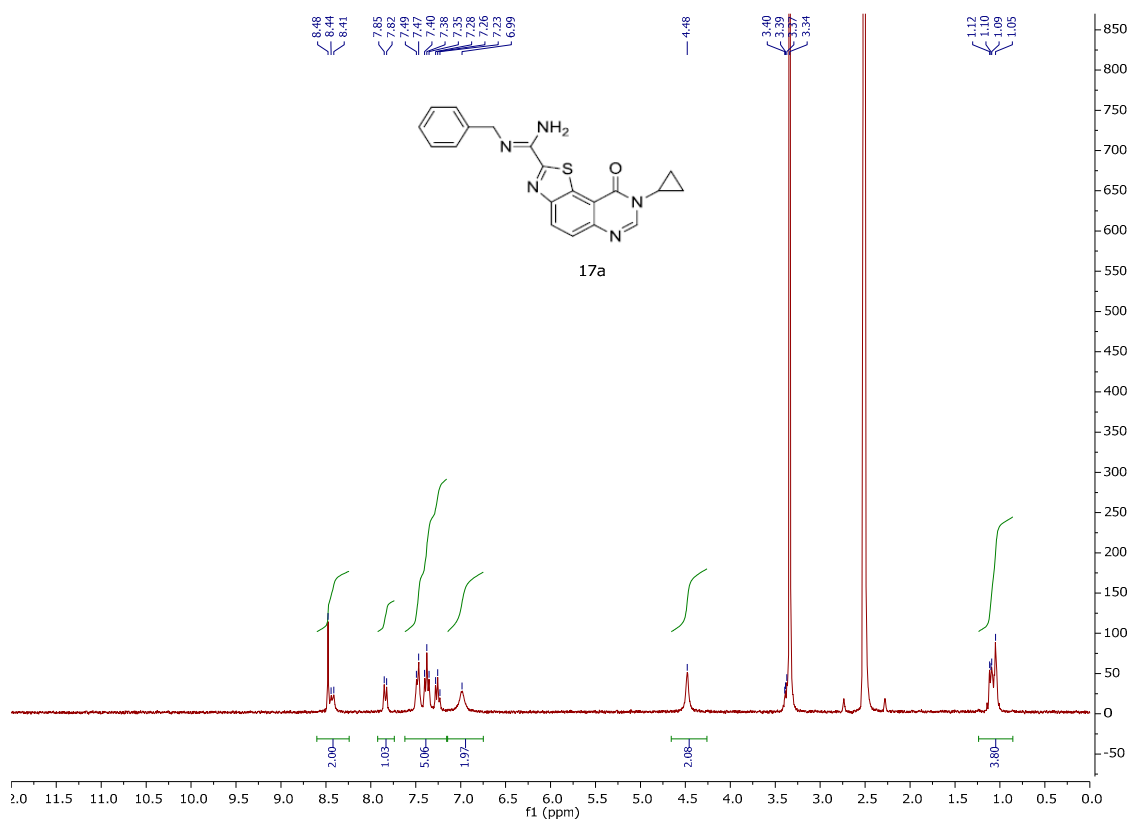
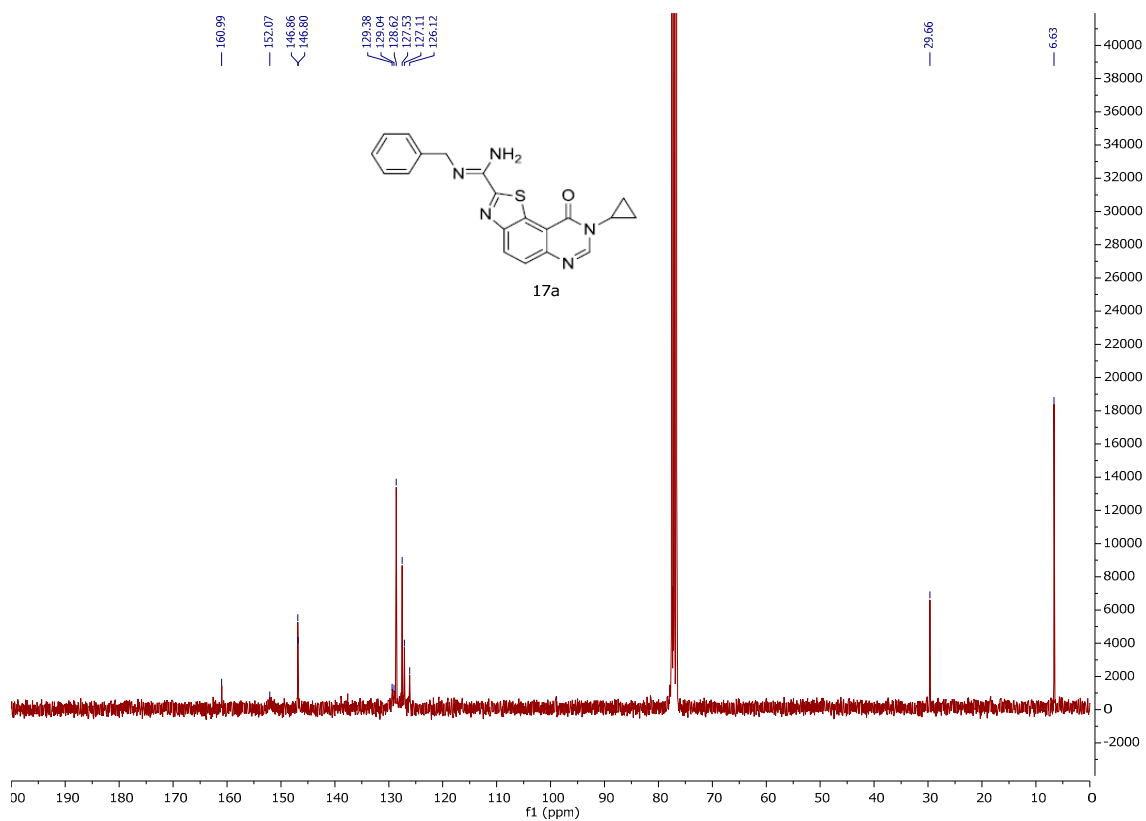
Figure S42. ¹H-NMR and ¹³C-NMR Compound 14f

Figure S43. $^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ Compound 15

Figure S44. ^1H -NMR and ^{13}C -NMR Compound 16

Figure S45. ¹H-NMR and ¹³C-NMR Compound 17a

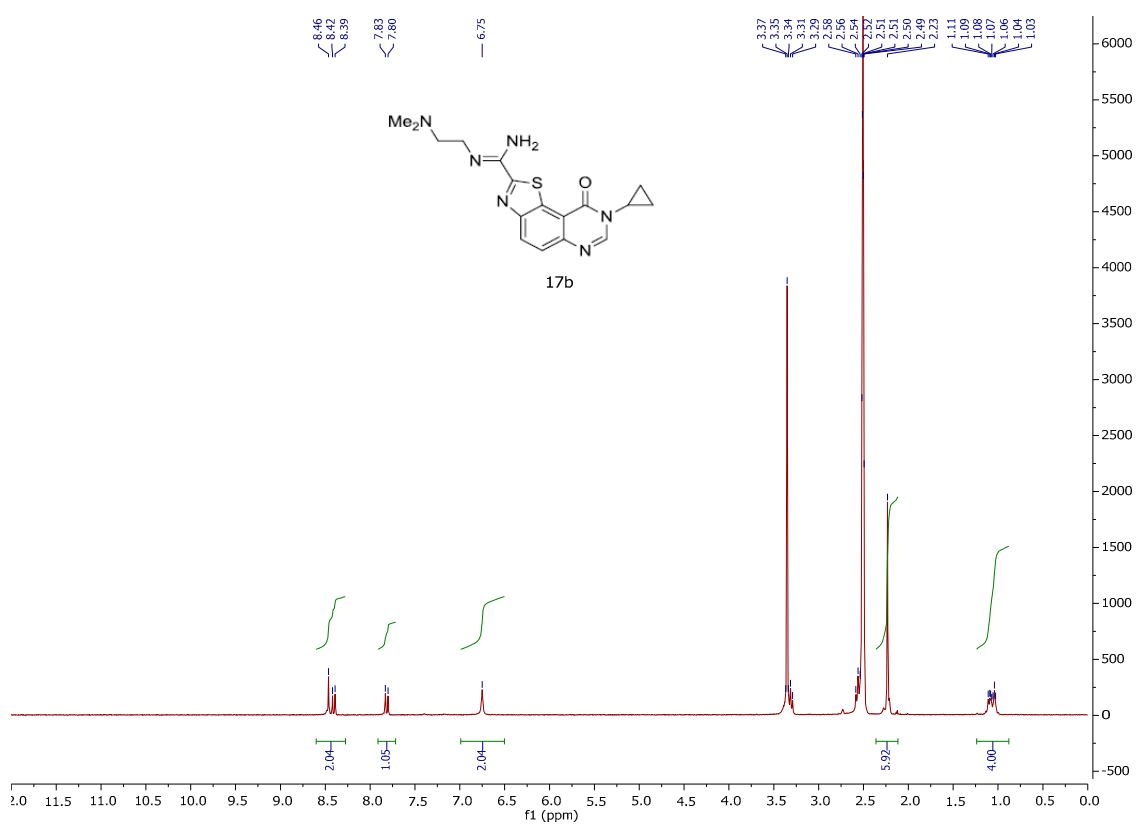
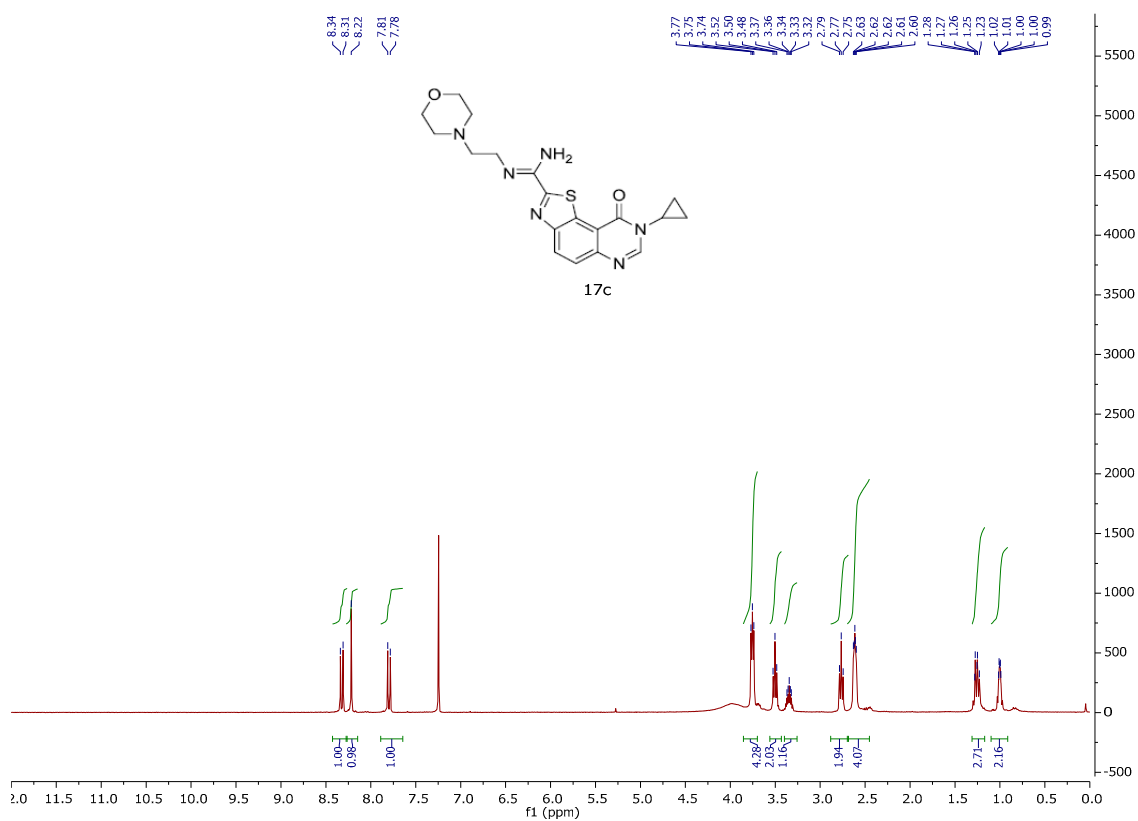
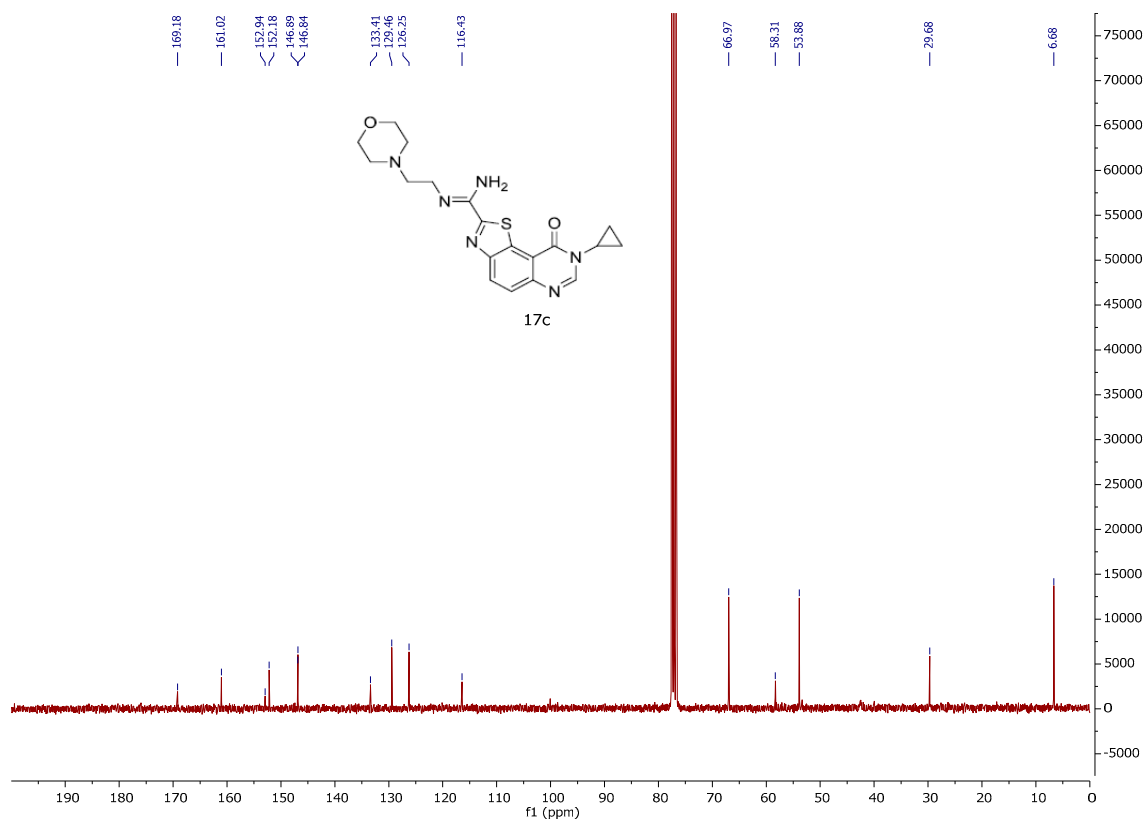
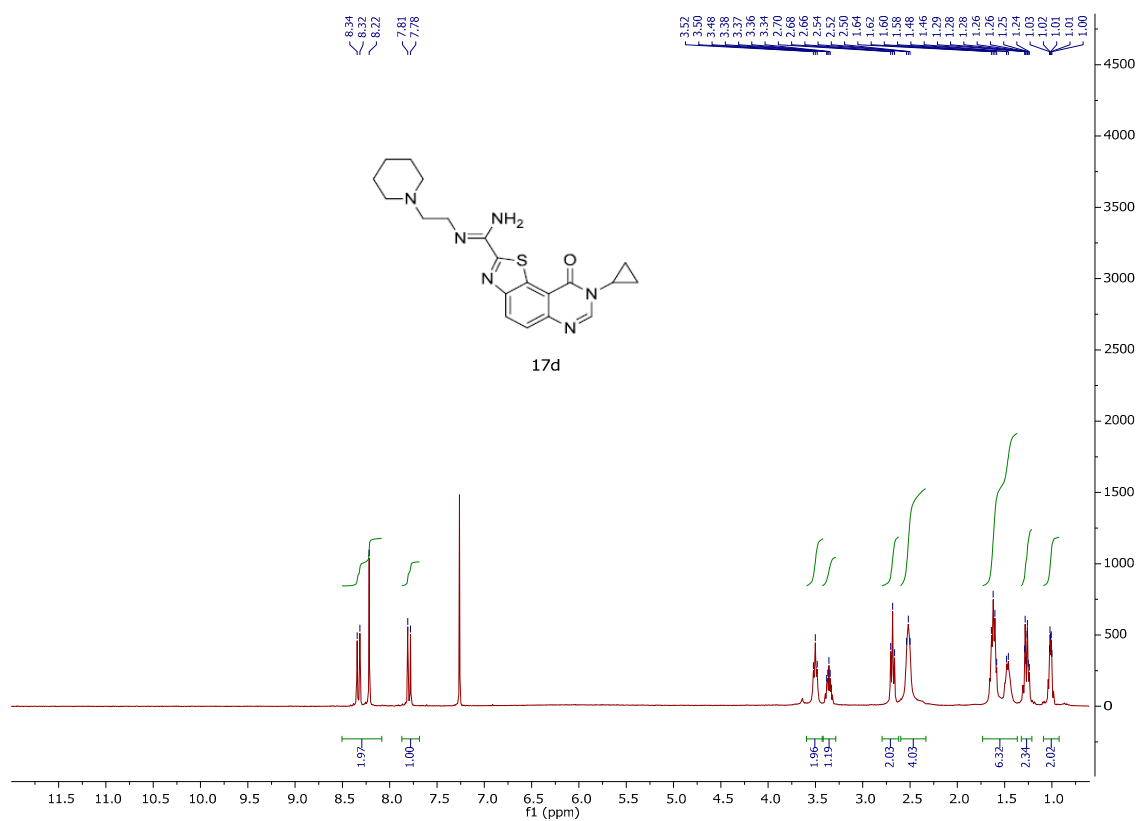


Figure S46. $^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ Compound 17b

Figure S47. ¹H-NMR and ¹³C-NMR Compound 17c

Figure S48. ¹H-NMR and ¹³C-NMR Compound 17d