

Supporting Information

Metal-Free Domino Amination-Knoevenagel Condensation Approach to Access New Coumarins as Potent Nanomolar Inhibitors of VEGFR-2 and EGFR

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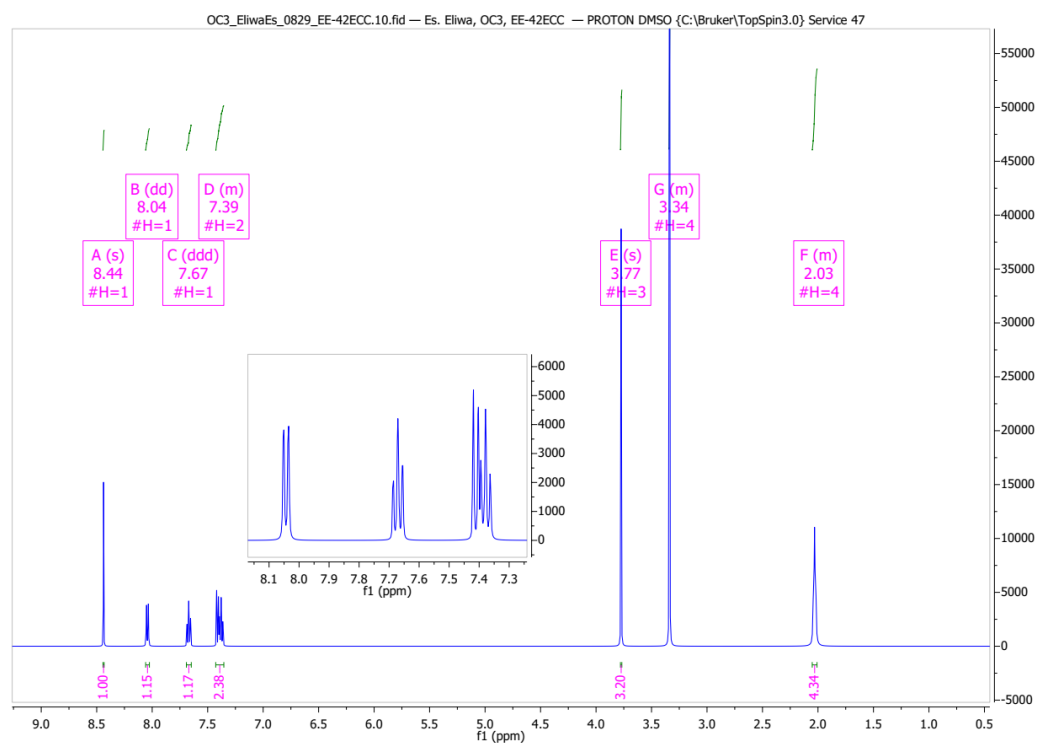
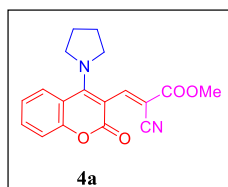


Figure S1. ^1H NMR (500 MHz, $\text{DMSO-}d_6$) of **4a**.

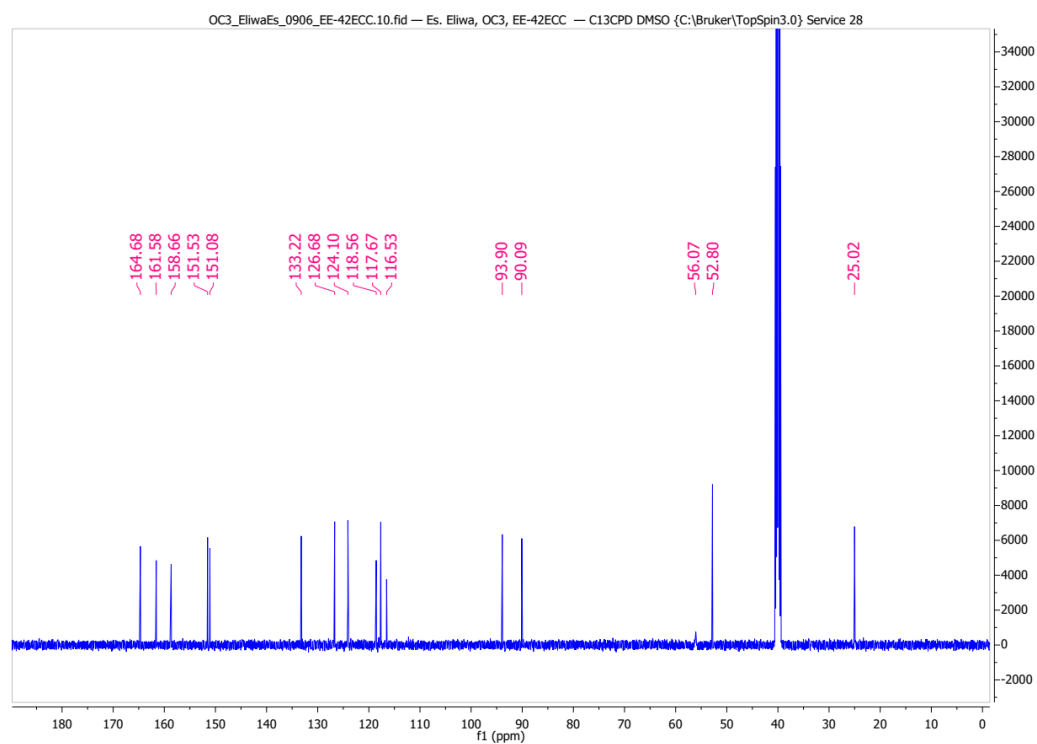


Figure S2. ^{13}C NMR (125 MHz, $\text{DMSO-}d_6$) of **4a**

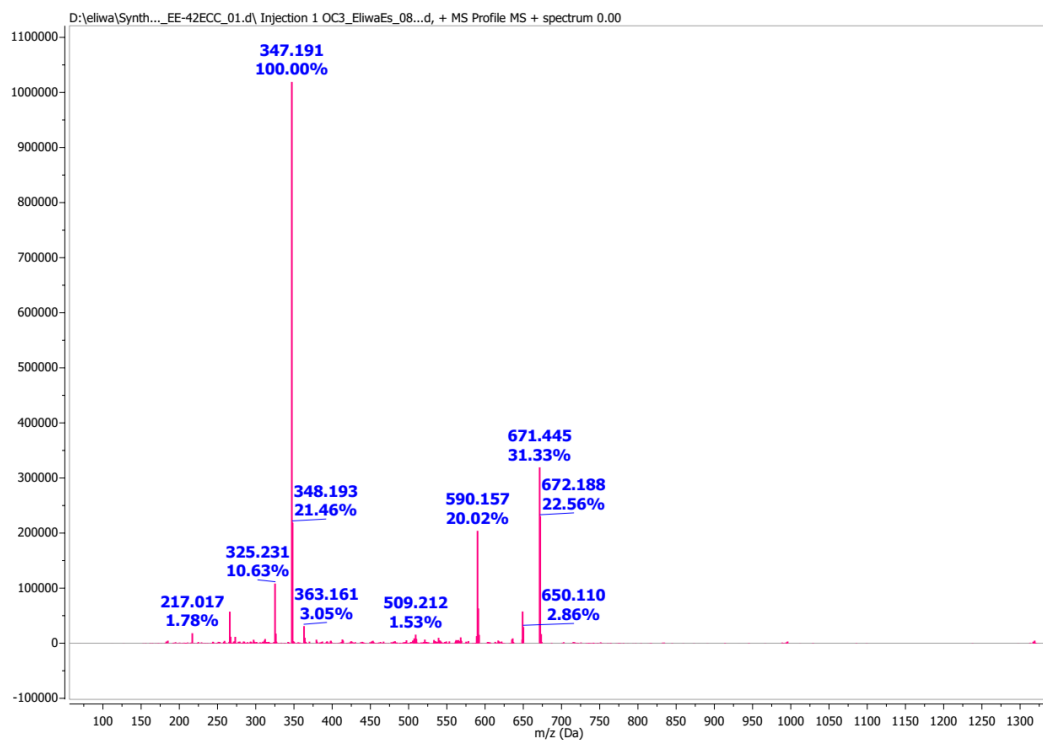


Figure S3. (+)-ESI-MS of **4a**

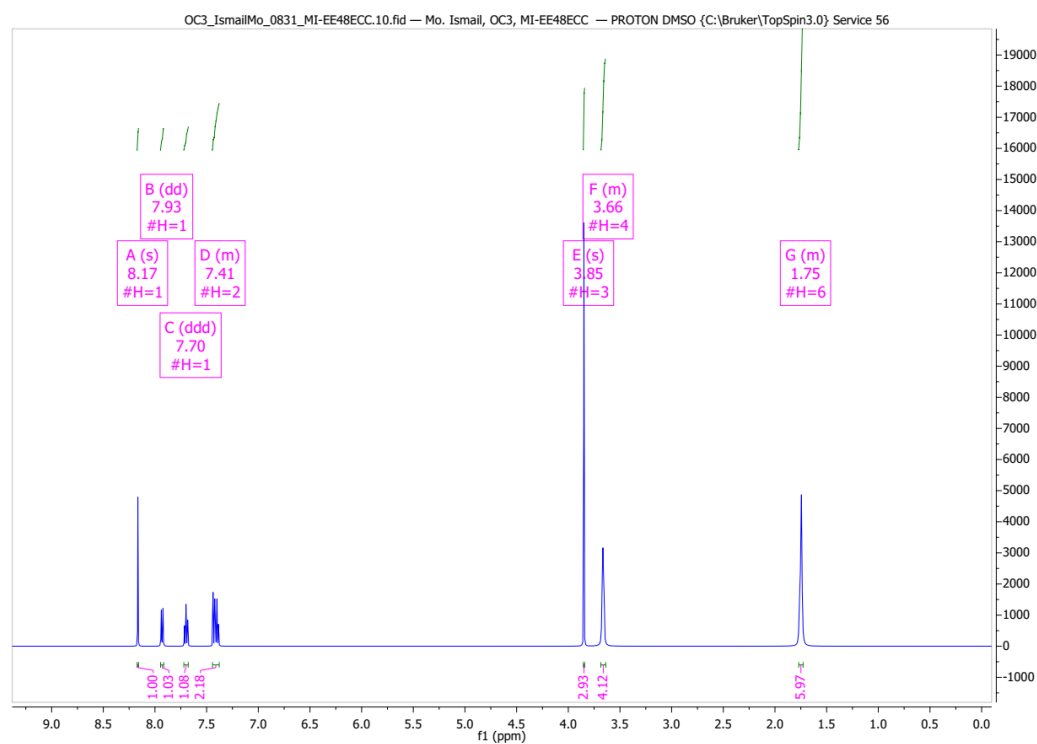
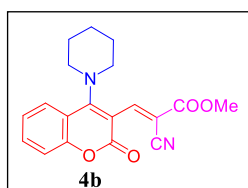


Figure S4. ^1H NMR (500 MHz, $\text{DMSO-}d_6$) of **4b**

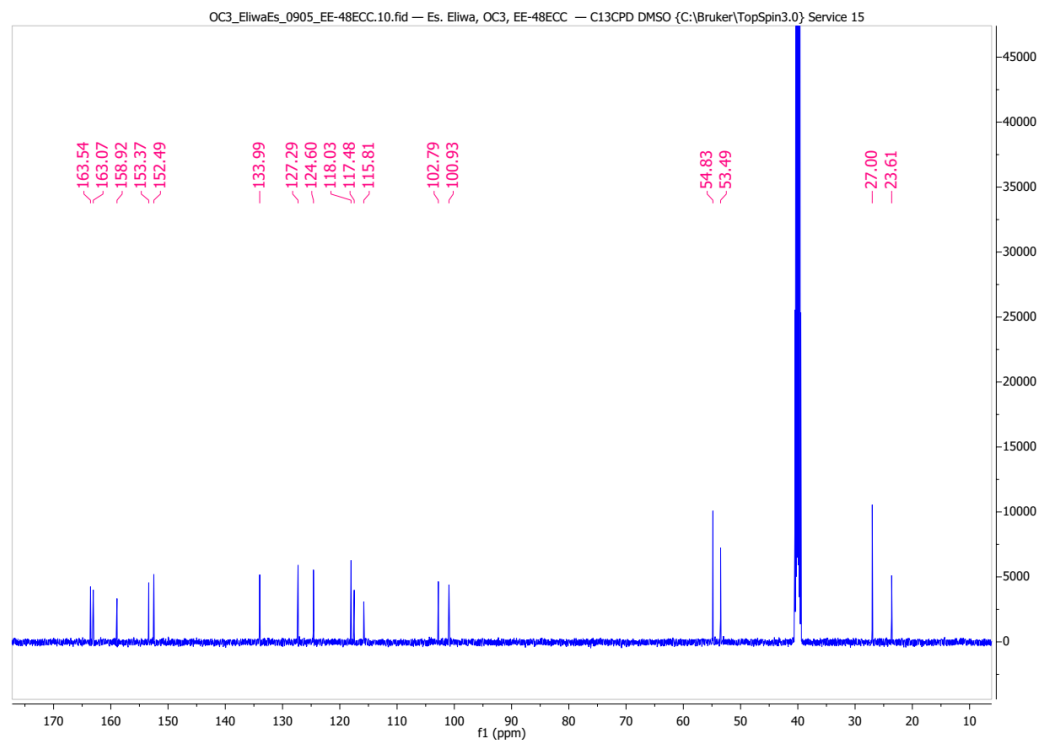


Figure S5. ^{13}C NMR (125 MHz, $\text{DMSO}-d_6$) of **4b**

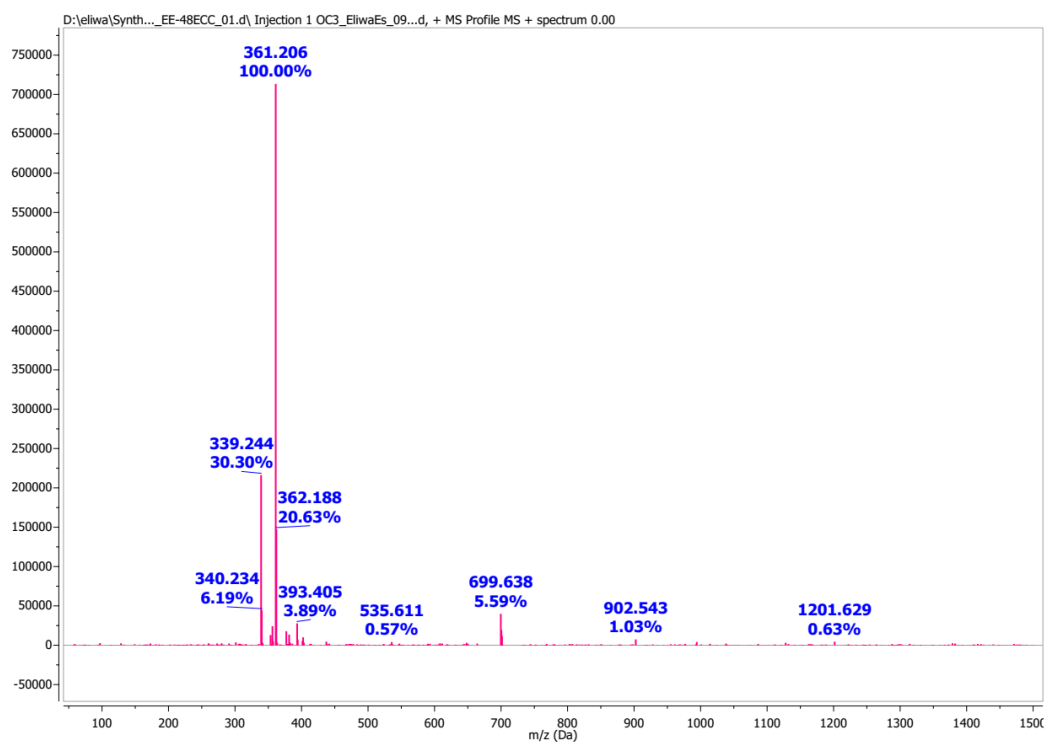


Figure S6. (+)-ESI-MS of **4b**

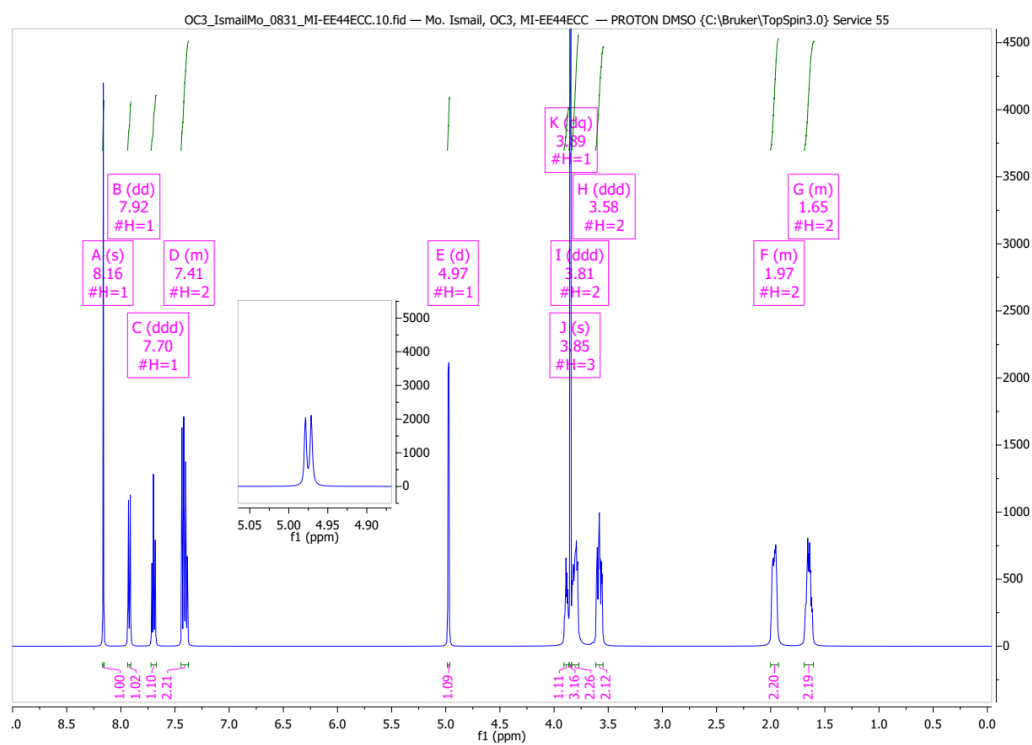
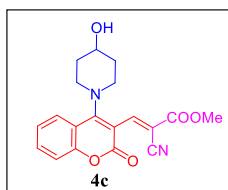


Figure S7. ^1H NMR (500 MHz, $\text{DMSO}-d_6$) of **4c**

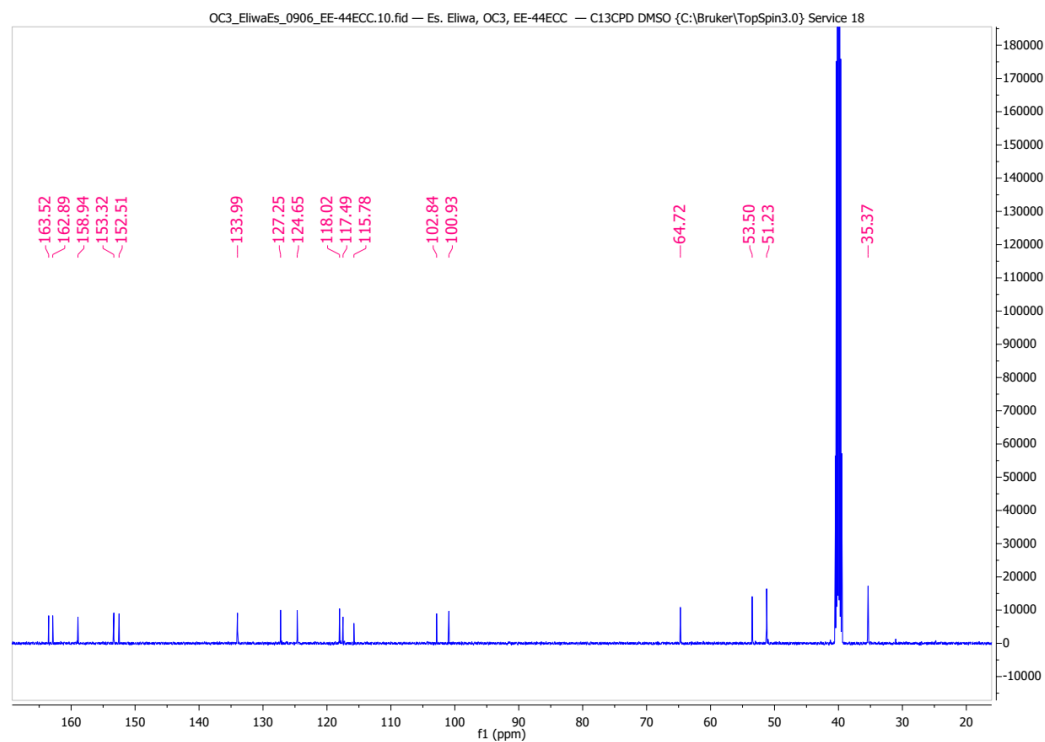


Figure S8. ^{13}C NMR (125 MHz, $\text{DMSO}-d_6$) of **4c**

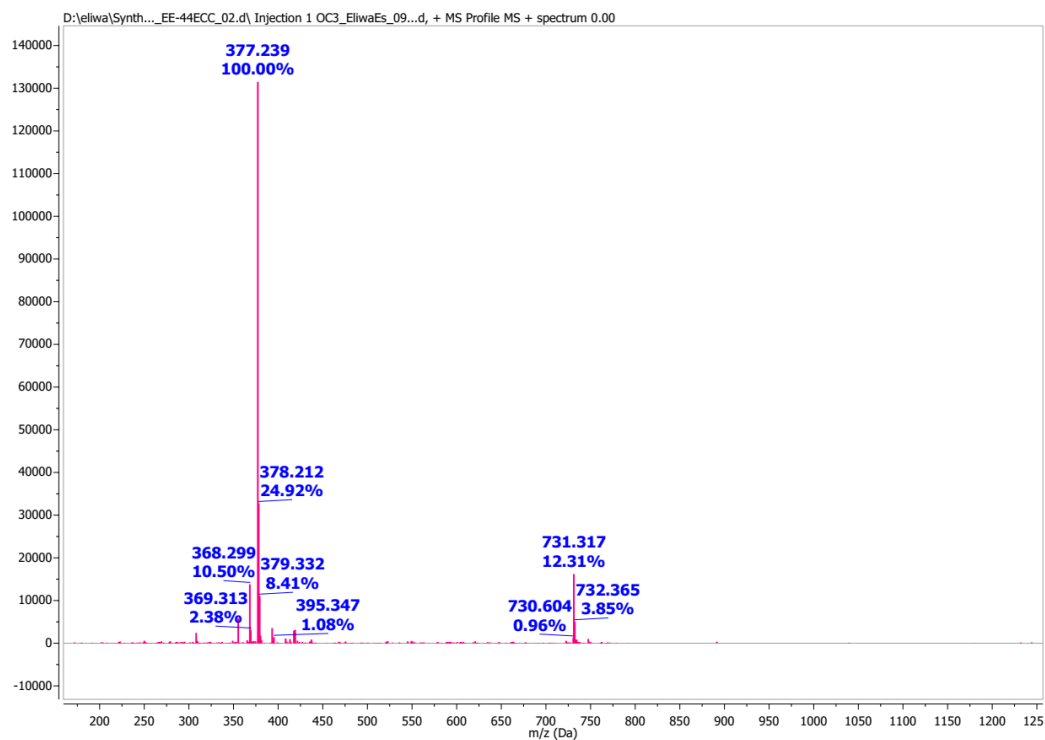


Figure S9. (+)-ESI-MS of **4c**

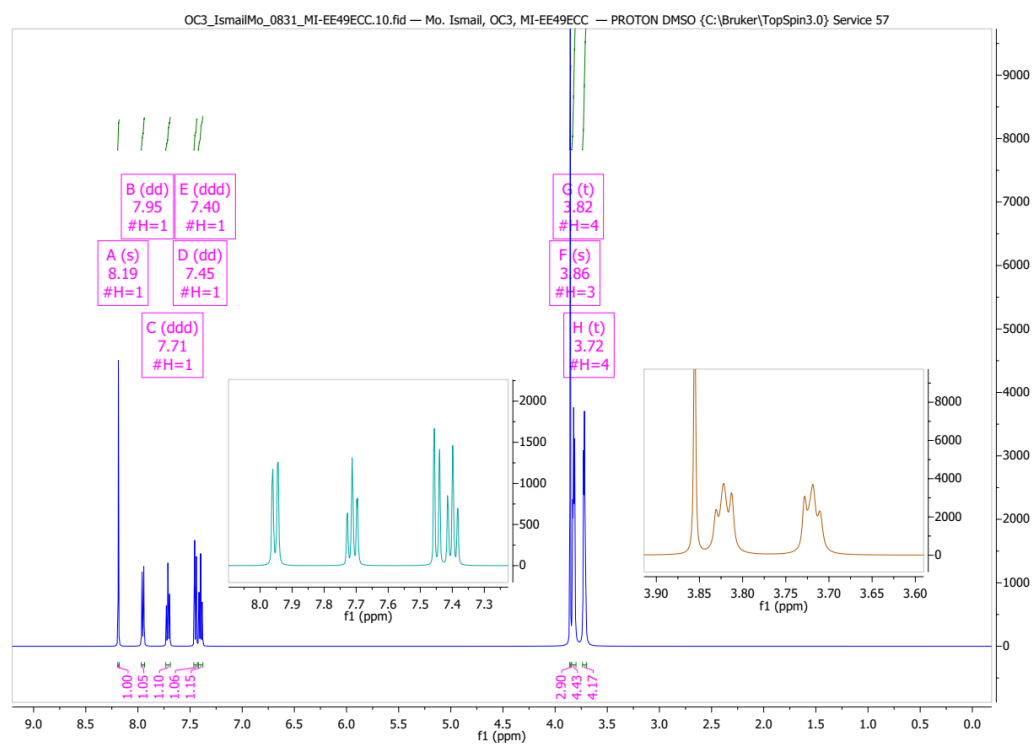
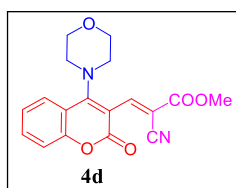


Figure S10. ^1H NMR (500 MHz, $\text{DMSO-}d_6$) of **4d**

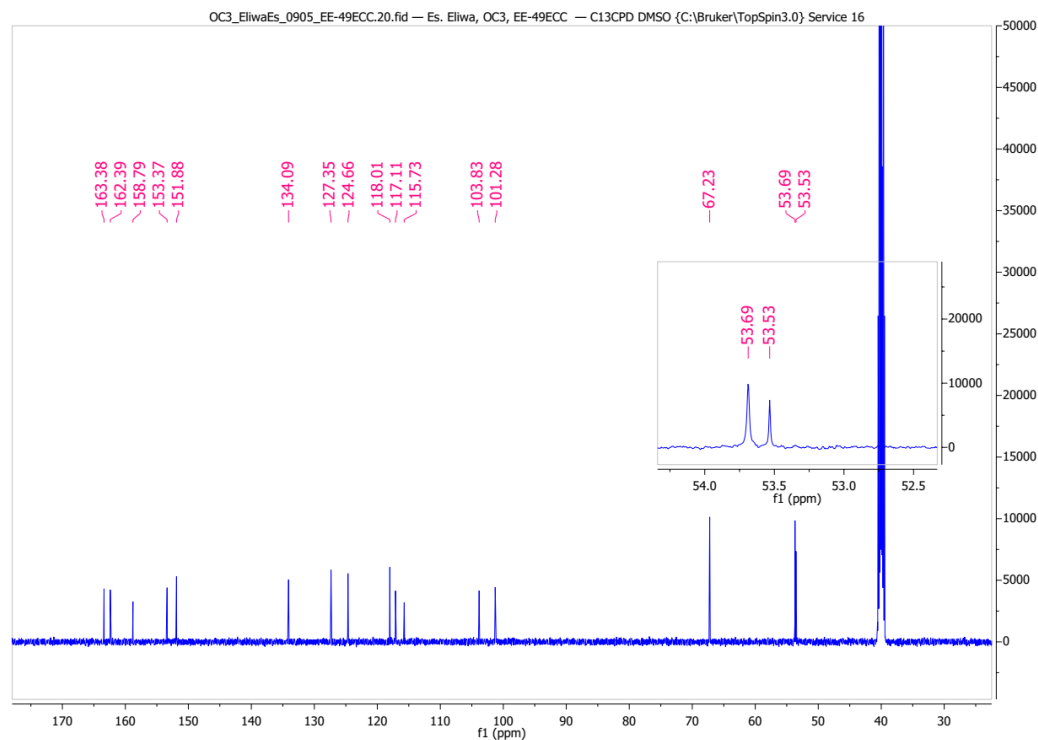


Figure S11. ^{13}C NMR (125 MHz, $\text{DMSO-}d_6$) of **4d**

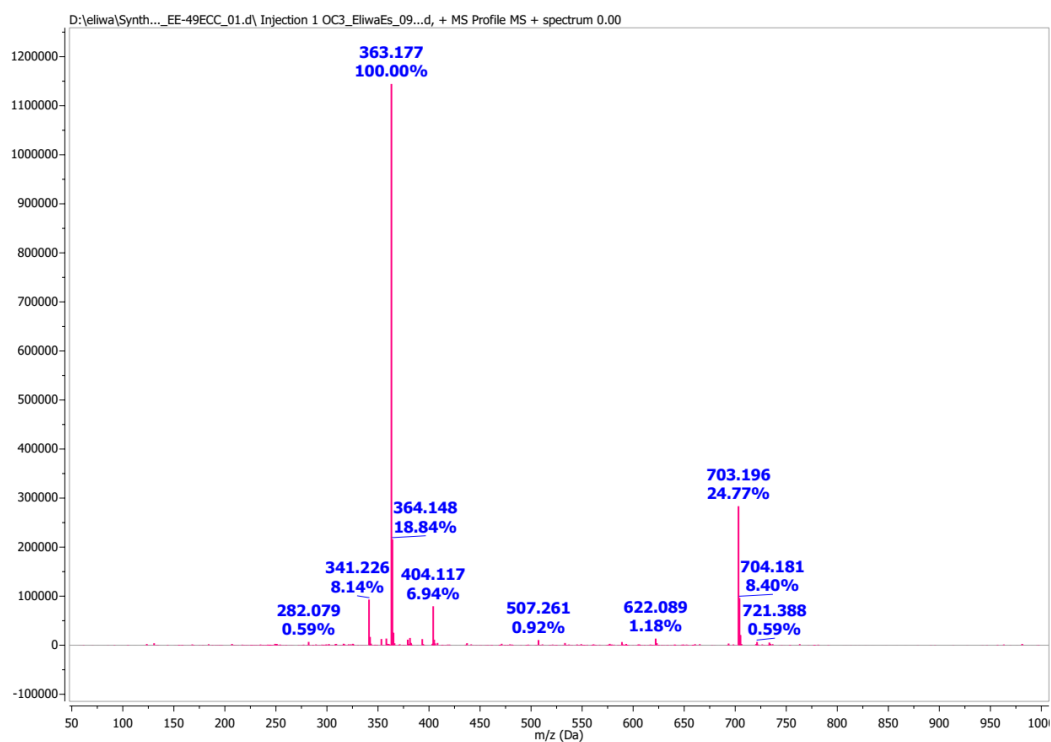


Figure S12. (+)-ESI-MS of **4d**

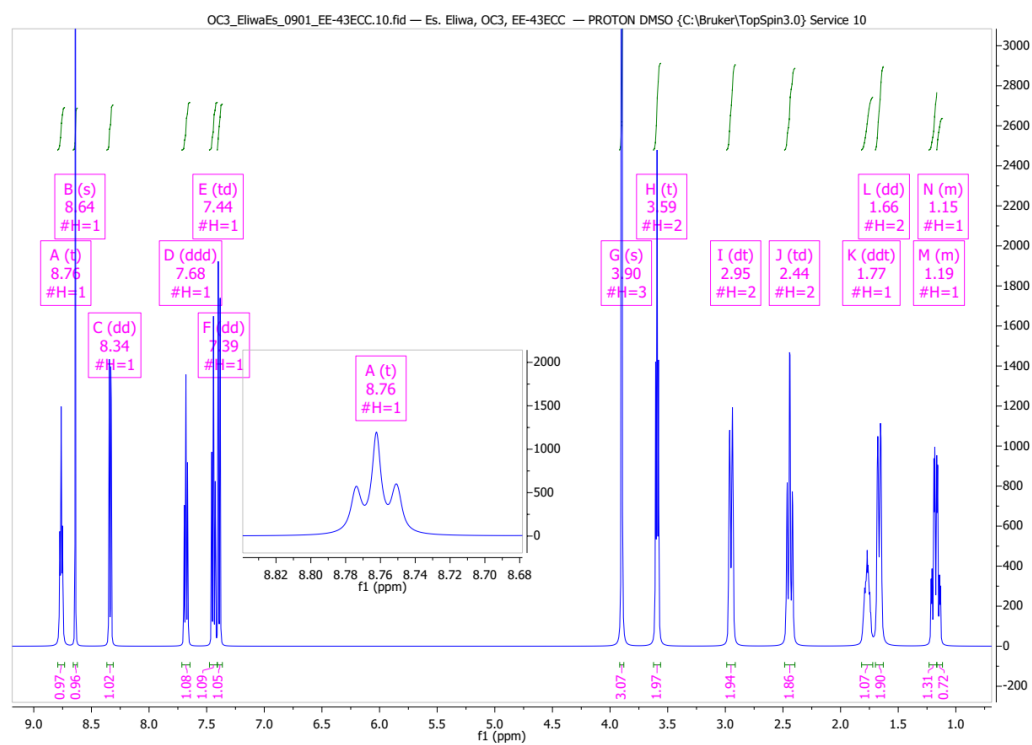
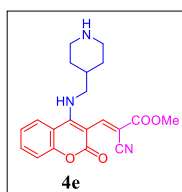


Figure S13. ^1H NMR (500 MHz, $\text{DMSO-}d_6$) of **4e**

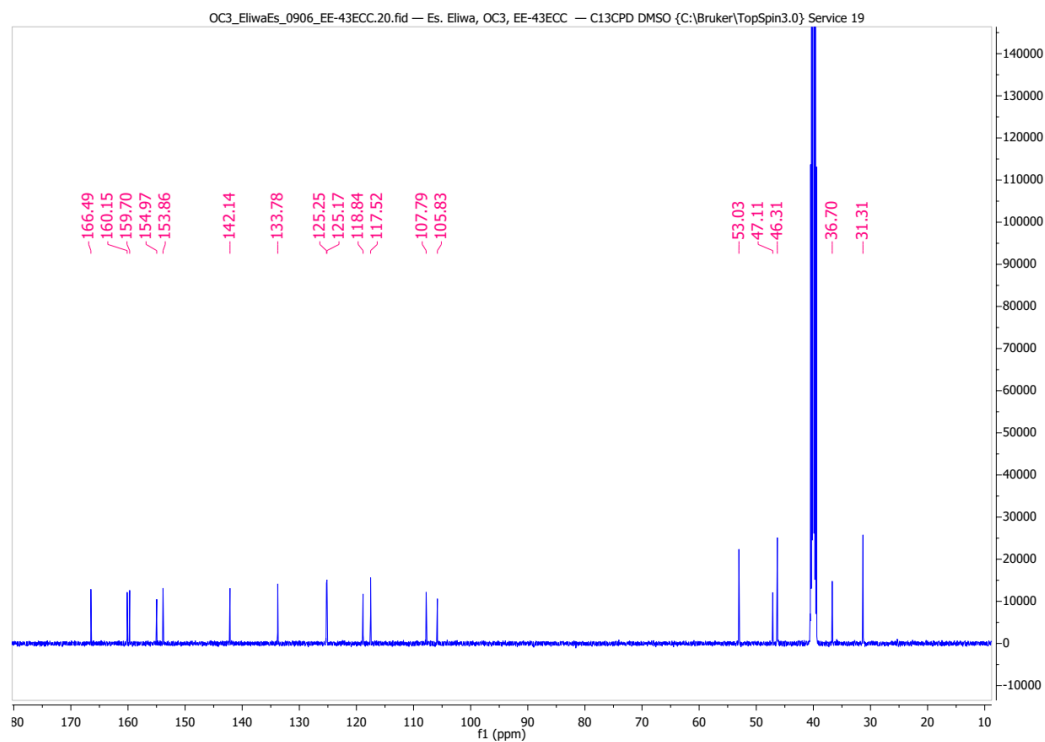


Figure S14. ^{13}C NMR (125 MHz, $\text{DMSO-}d_6$) of **4e**

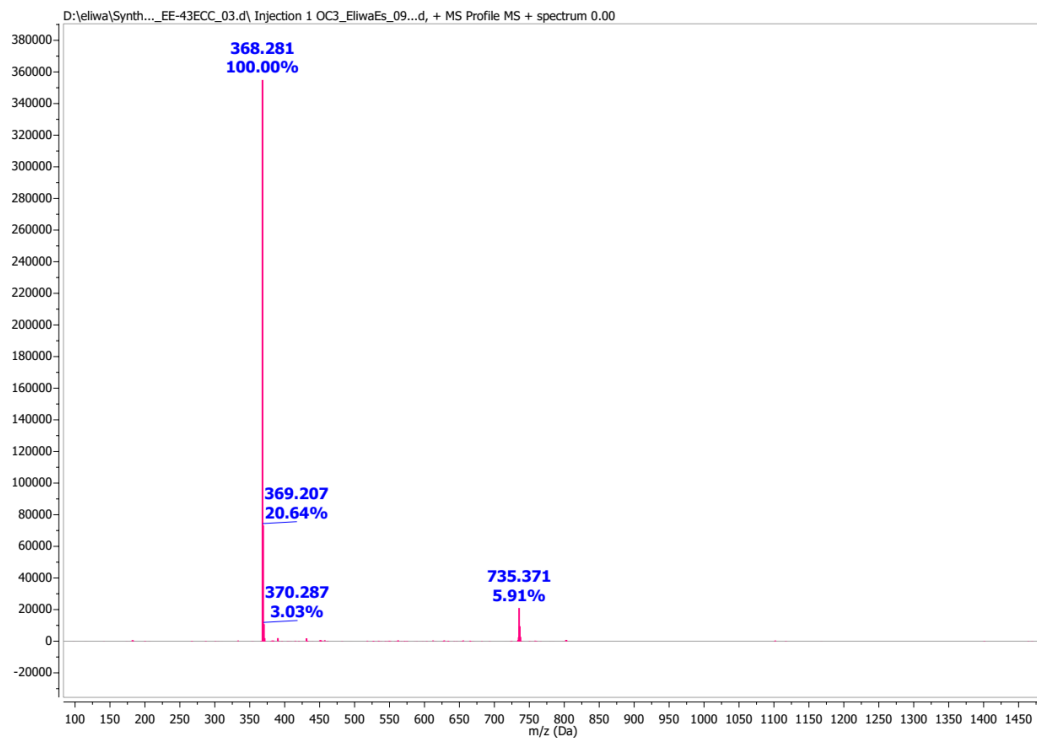


Figure S15. (+)-ESI-MS of **4e**

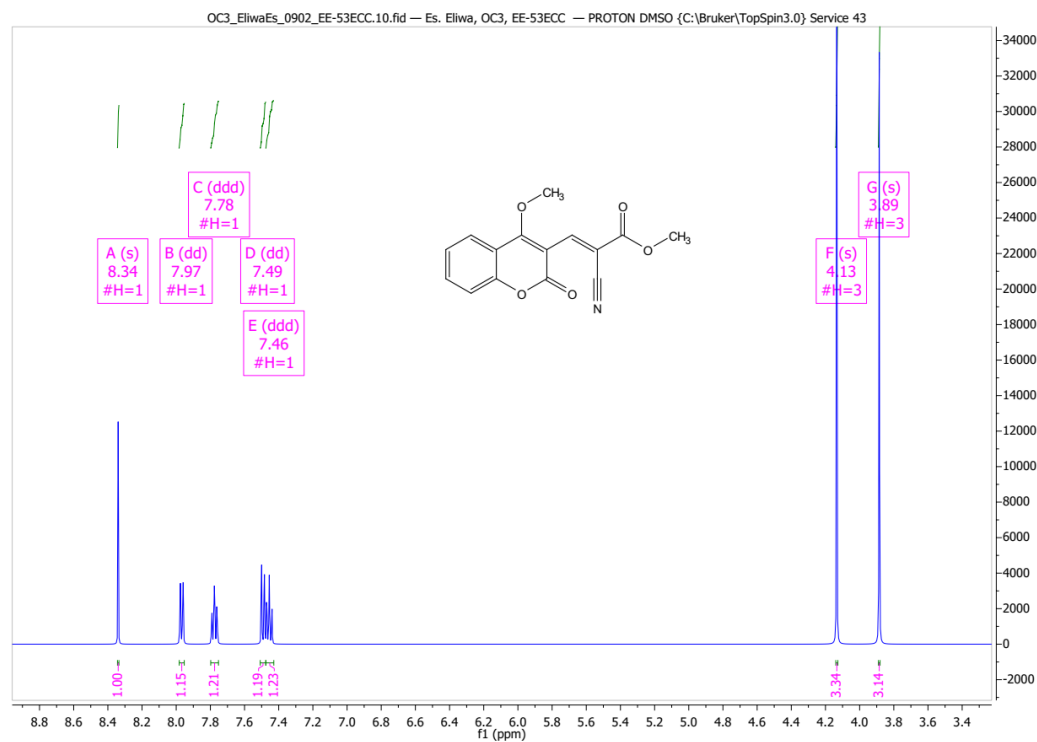
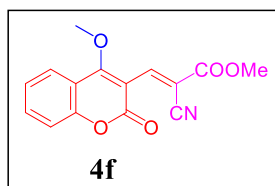


Figure S16. ^1H NMR (500 MHz, $\text{DMSO-}d_6$) of **4f**

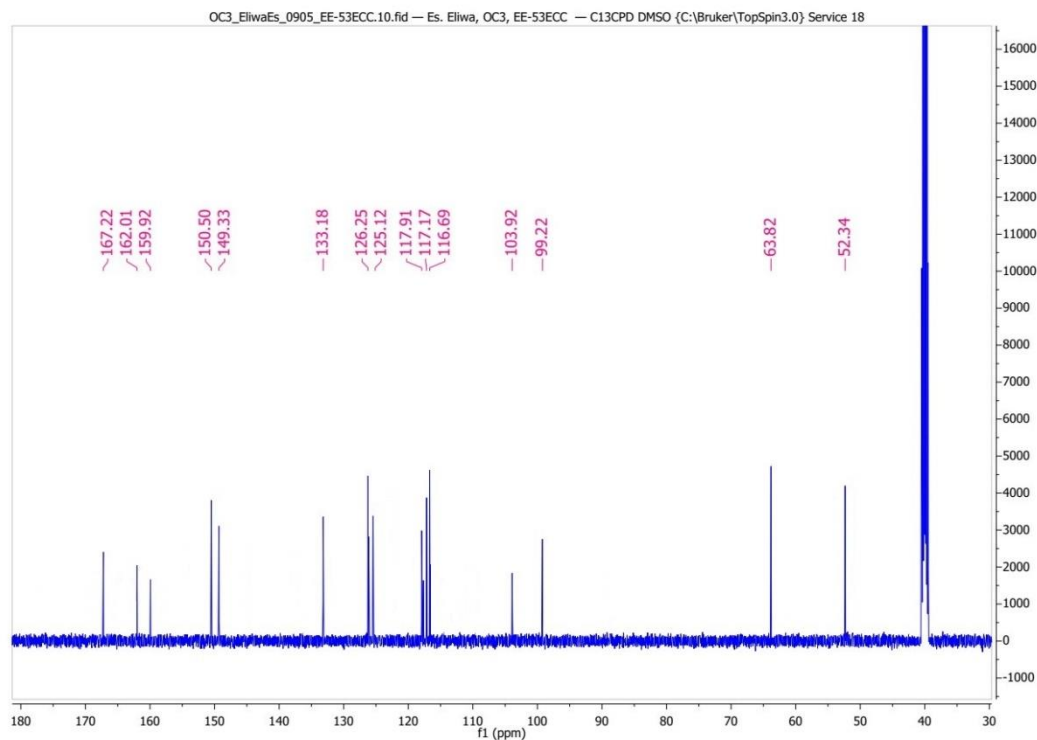


Figure S17. ^{13}C NMR (125 MHz, $\text{DMSO-}d_6$) of **4f**

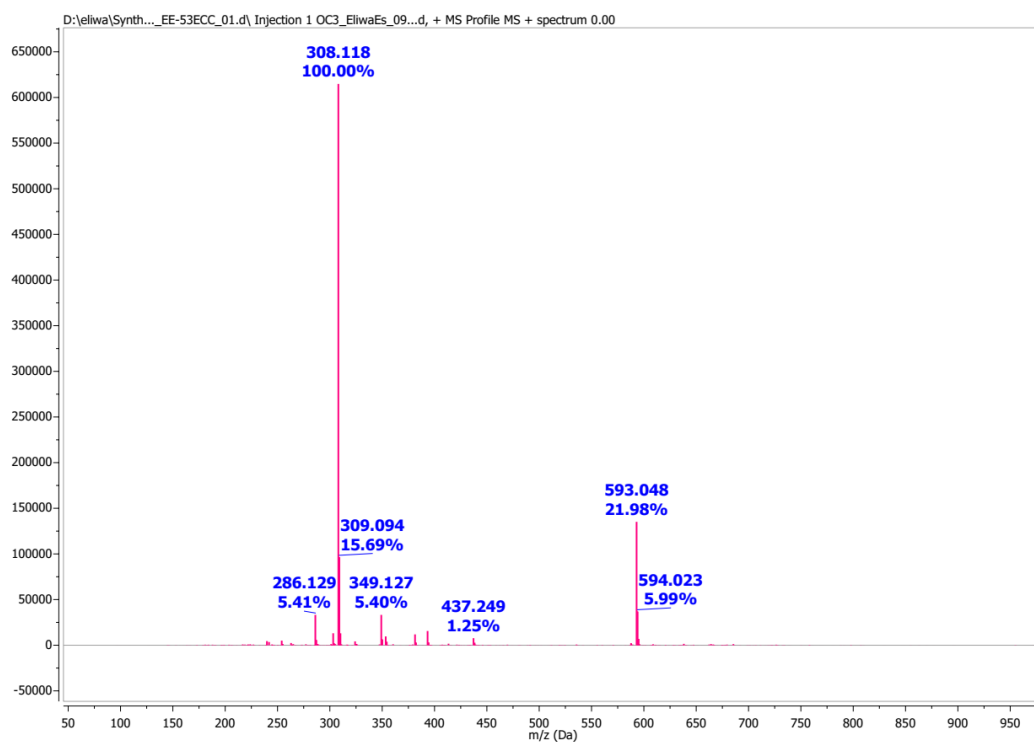


Figure S18. (+)-ESI-MS of **4f**

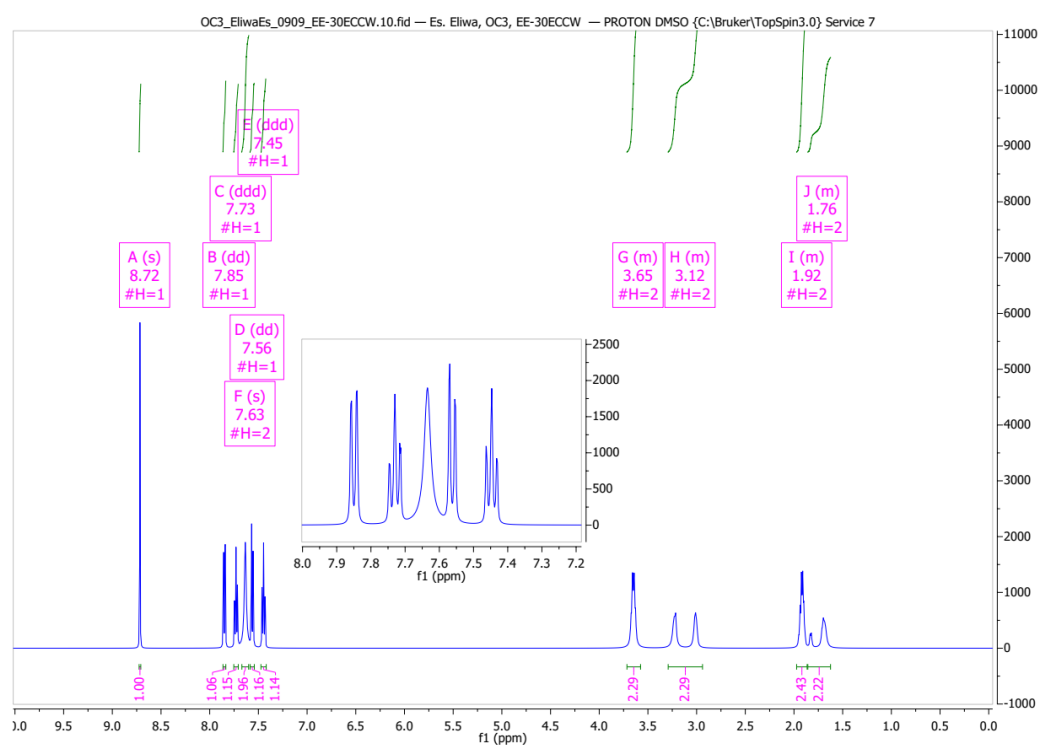
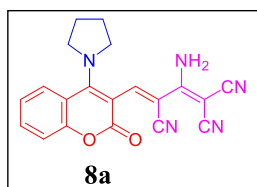


Figure S19. ^1H NMR (500 MHz, $\text{DMSO-}d_6$) of **8a**

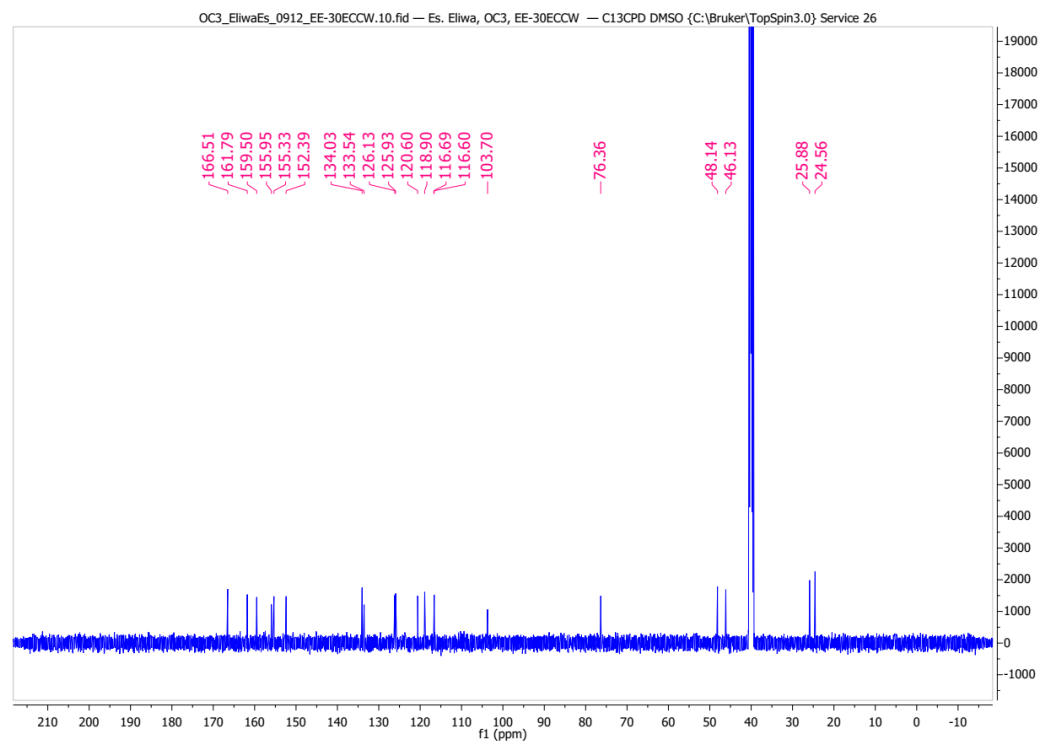
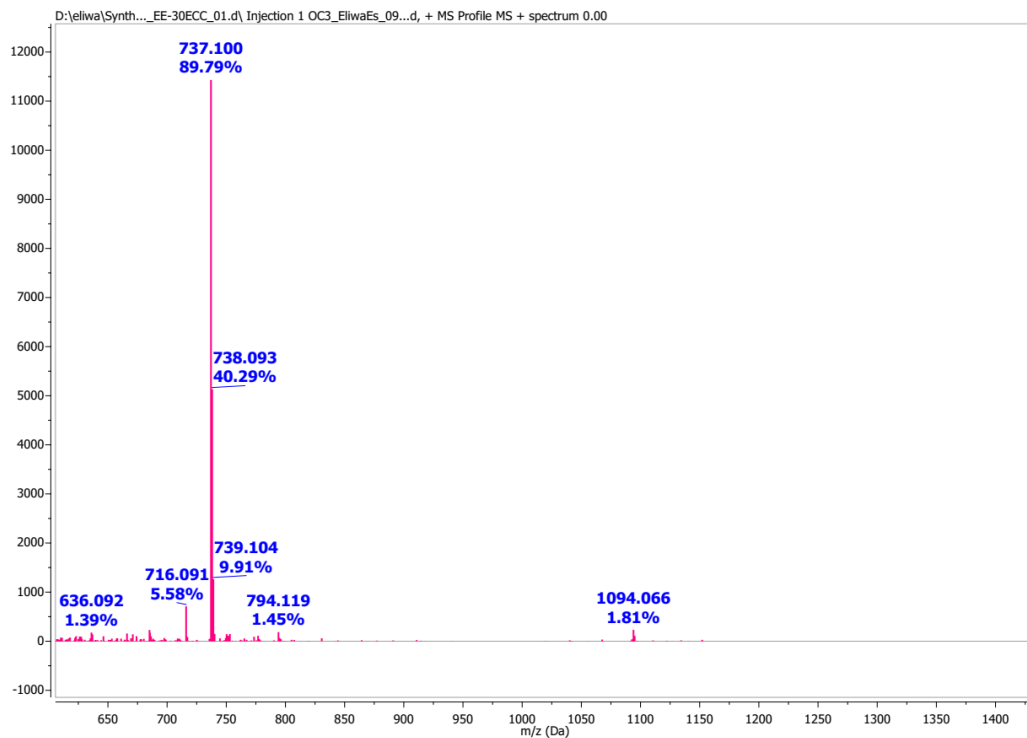
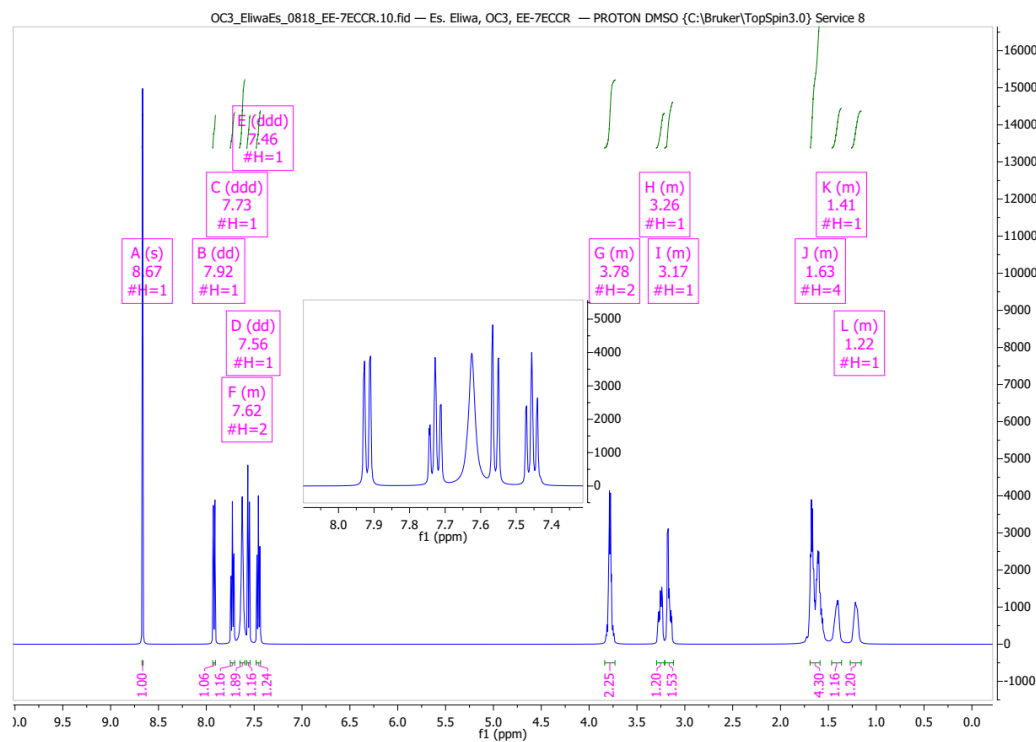
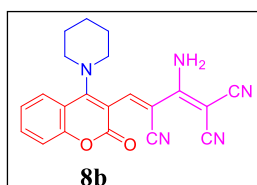


Figure S20. ^{13}C NMR (125 MHz, $\text{DMSO-}d_6$) of **8a**

Figure S21. (+)-ESI-MS of **8a**Figure S22. ¹H NMR (500 MHz, DMSO-*d*₆) of **8b**

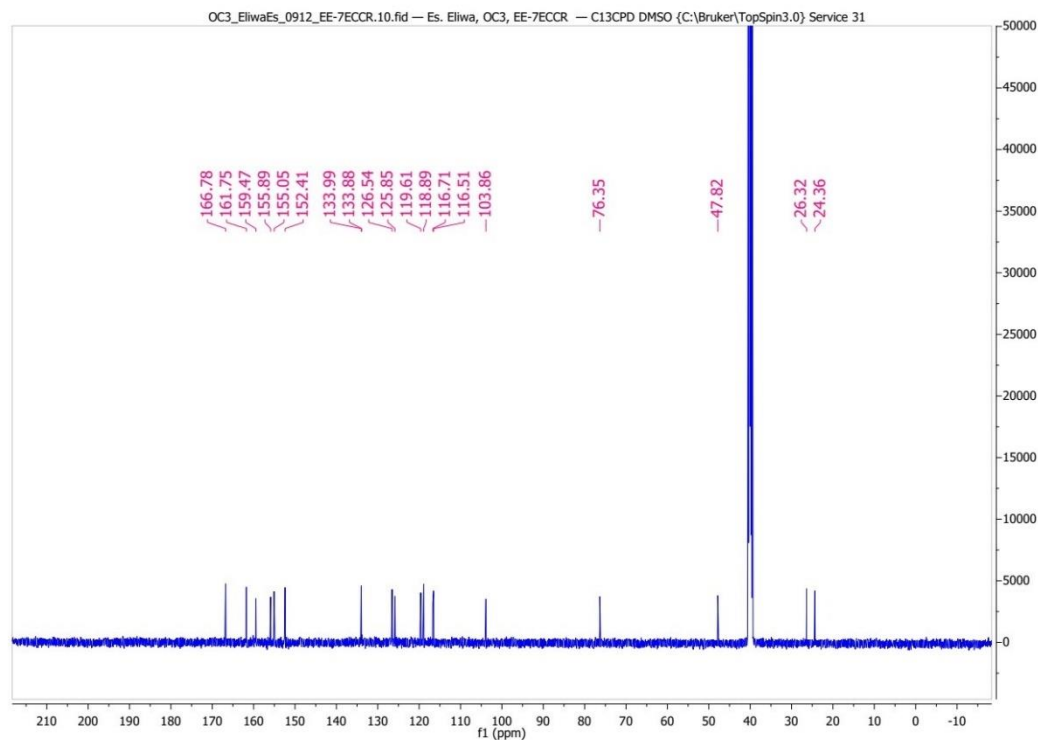


Figure S23. ^{13}C NMR (125 MHz, $\text{DMSO-}d_6$) of **8b**

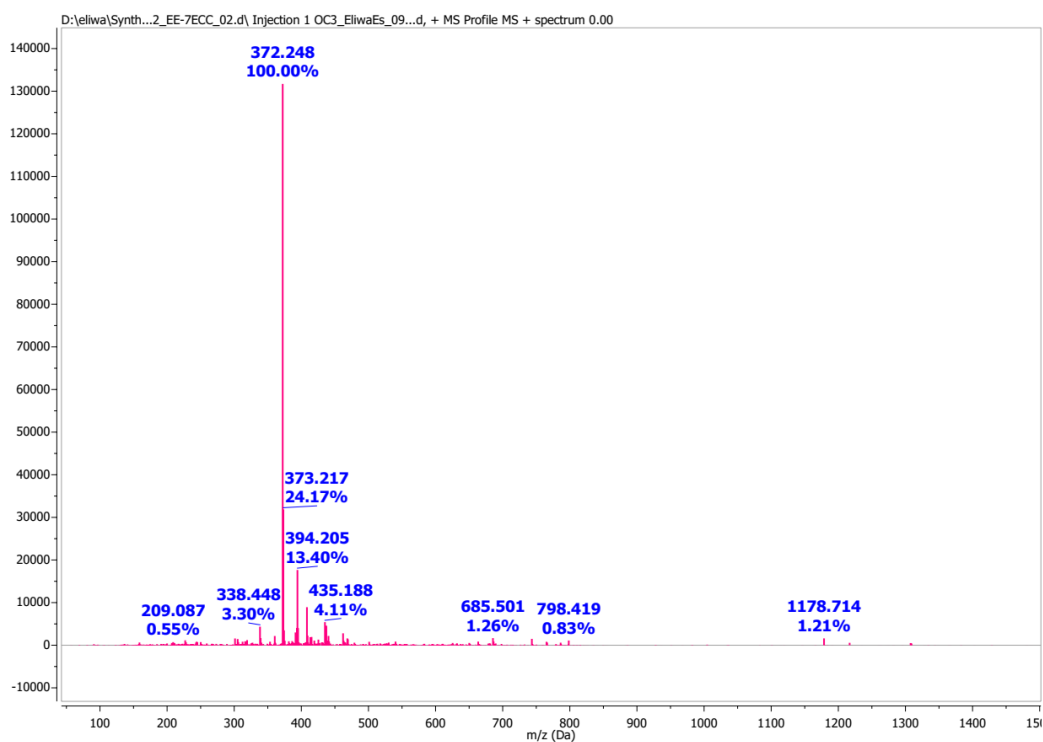


Figure S24. (+)-ESI-MS of **8b**

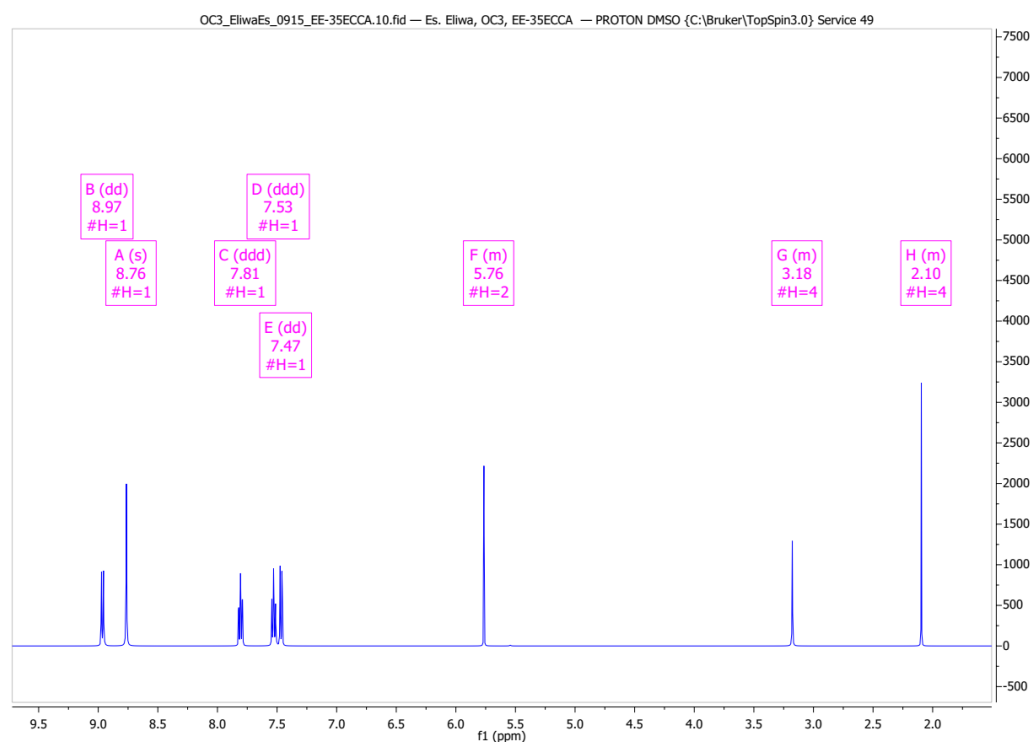
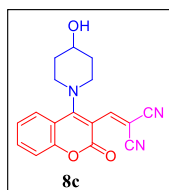


Figure S25. ¹H NMR (500 MHz, DMSO-*d*₆) of **8c**

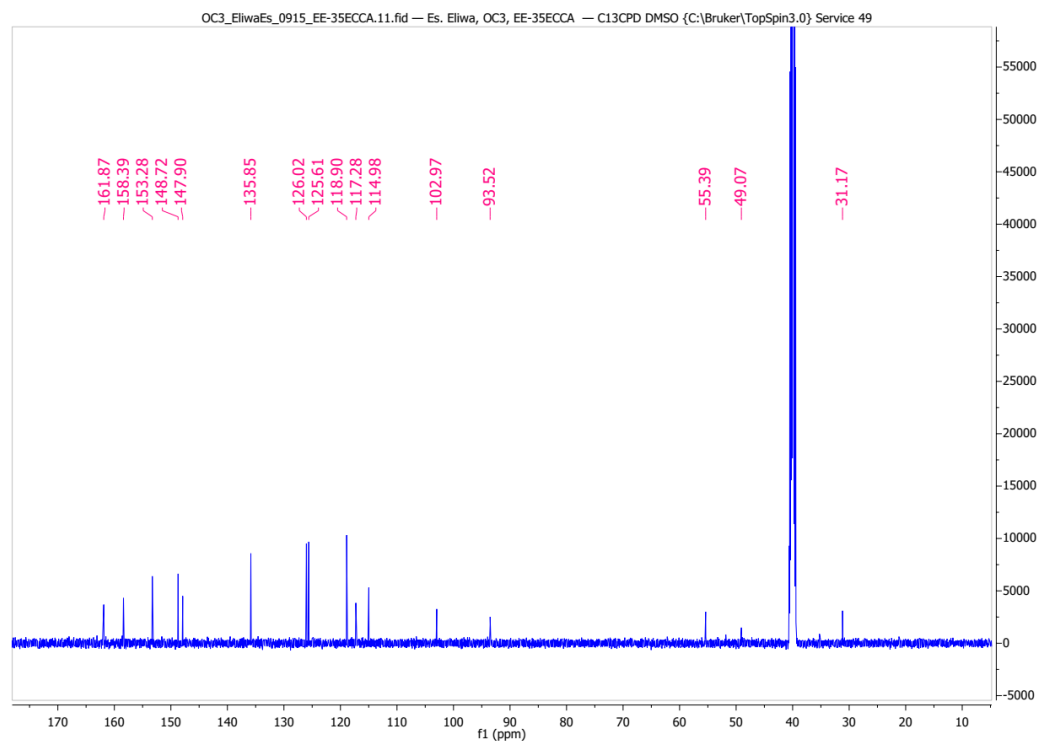
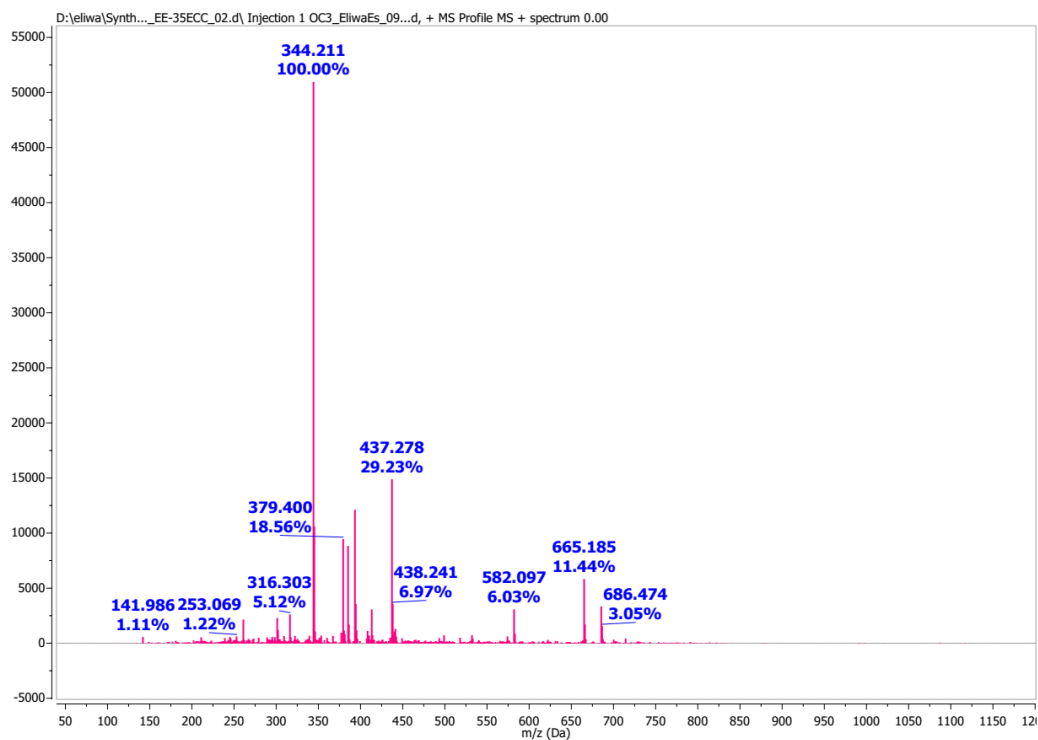
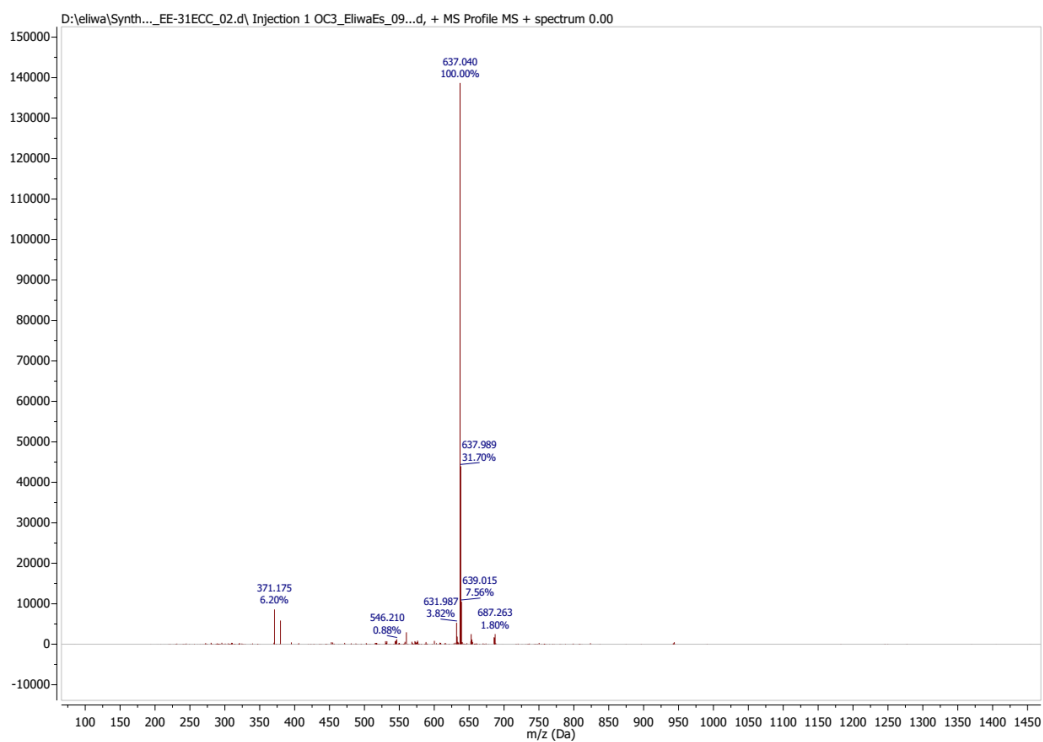
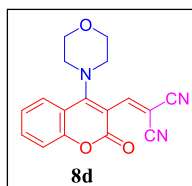


Figure S26. ¹³C NMR (125 MHz, DMSO-*d*₆) of **8c**

**Figure S27.** (+)-ESI-MS of **8c****Figure S28.** (+)-ESI-MS of **8d**

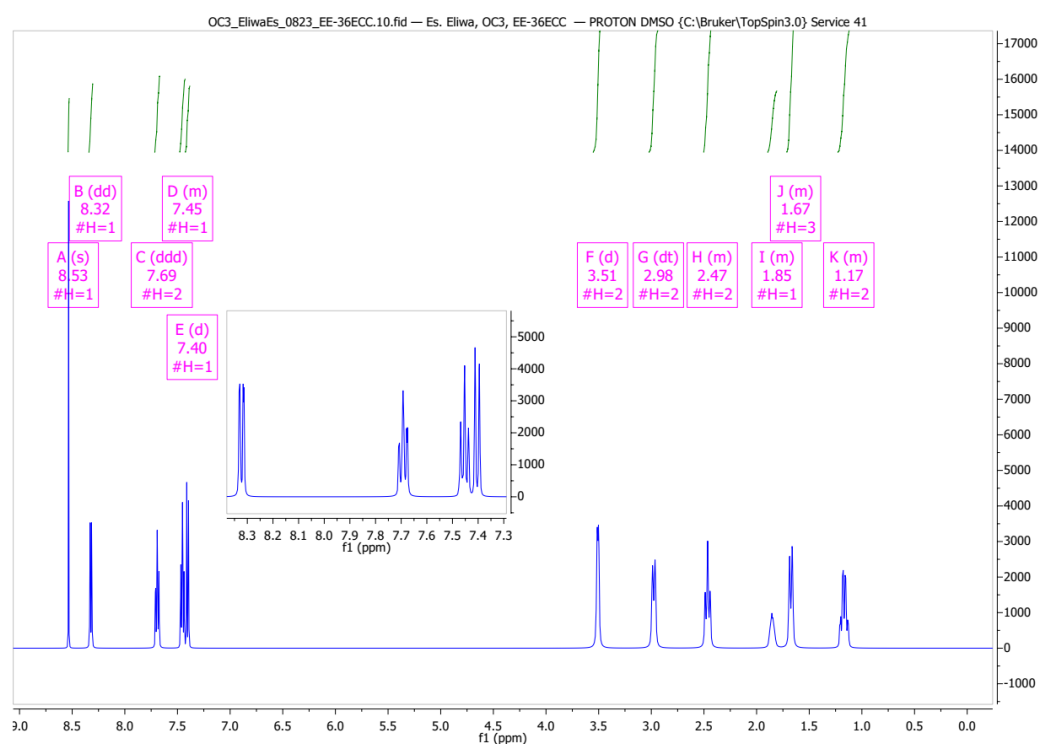
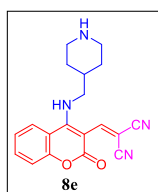


Figure S29. ^1H NMR (500 MHz, $\text{DMSO-}d_6$) of **8e**

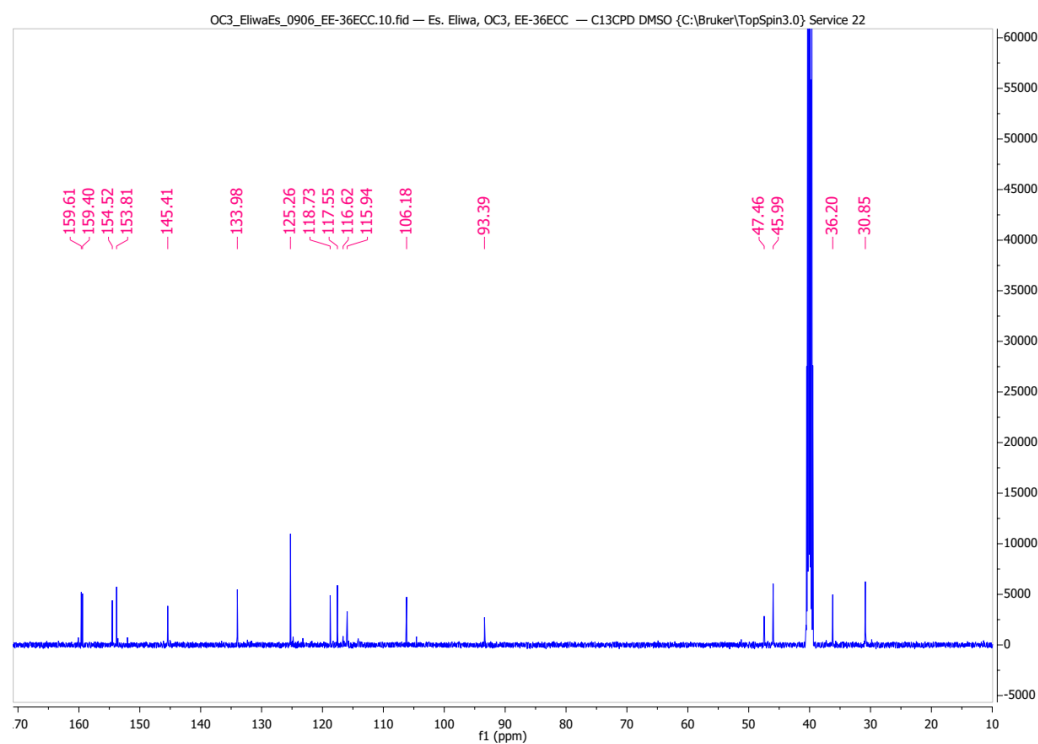
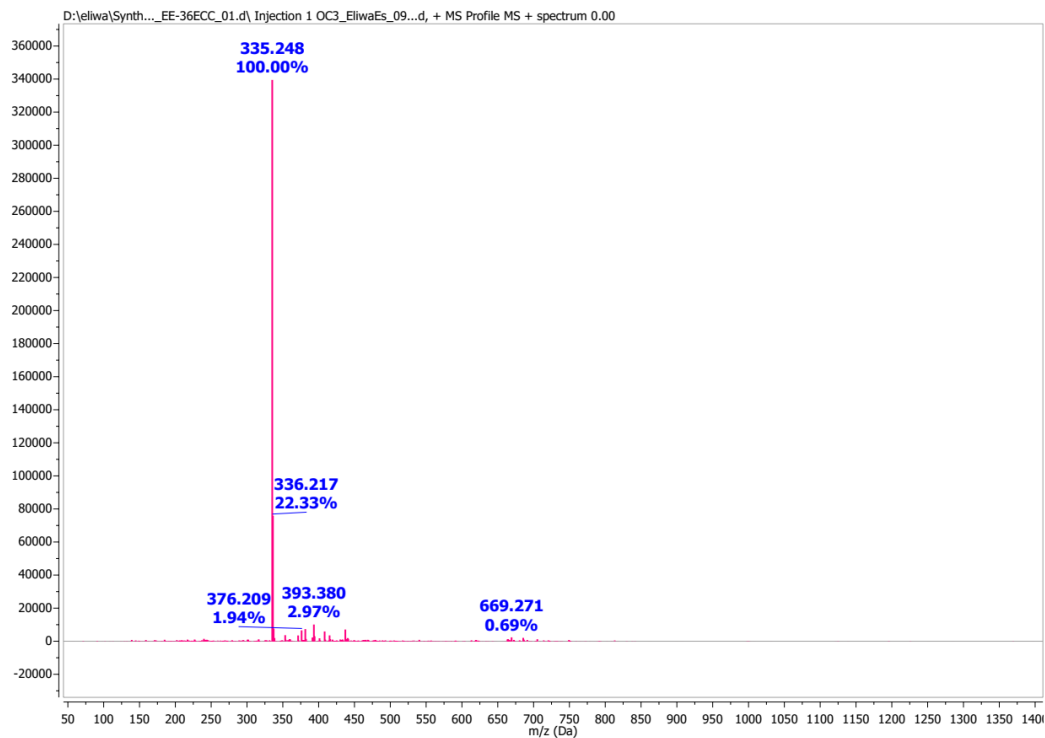
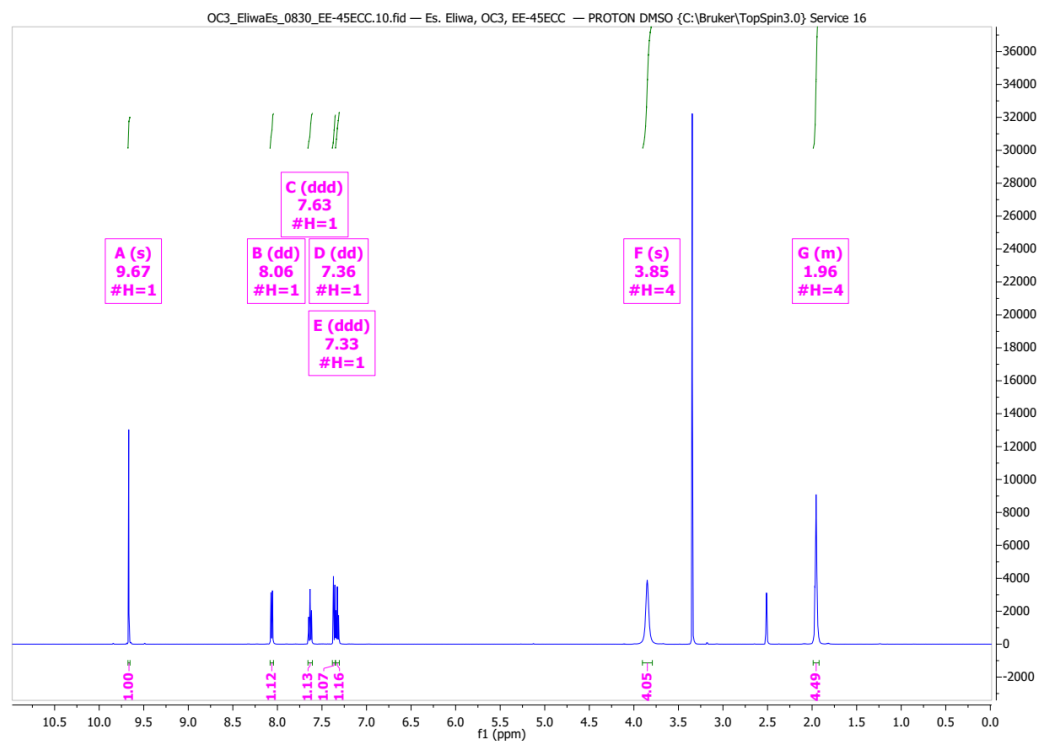
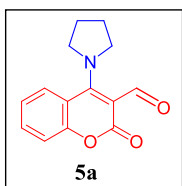


Figure S30. ^{13}C NMR (125 MHz, $\text{DMSO-}d_6$) of **8e**

**Figure S31.** (+)-ESI-MS of **8e****Figure S32.** ^1H NMR (500 MHz, $\text{DMSO-}d_6$) of **5a**

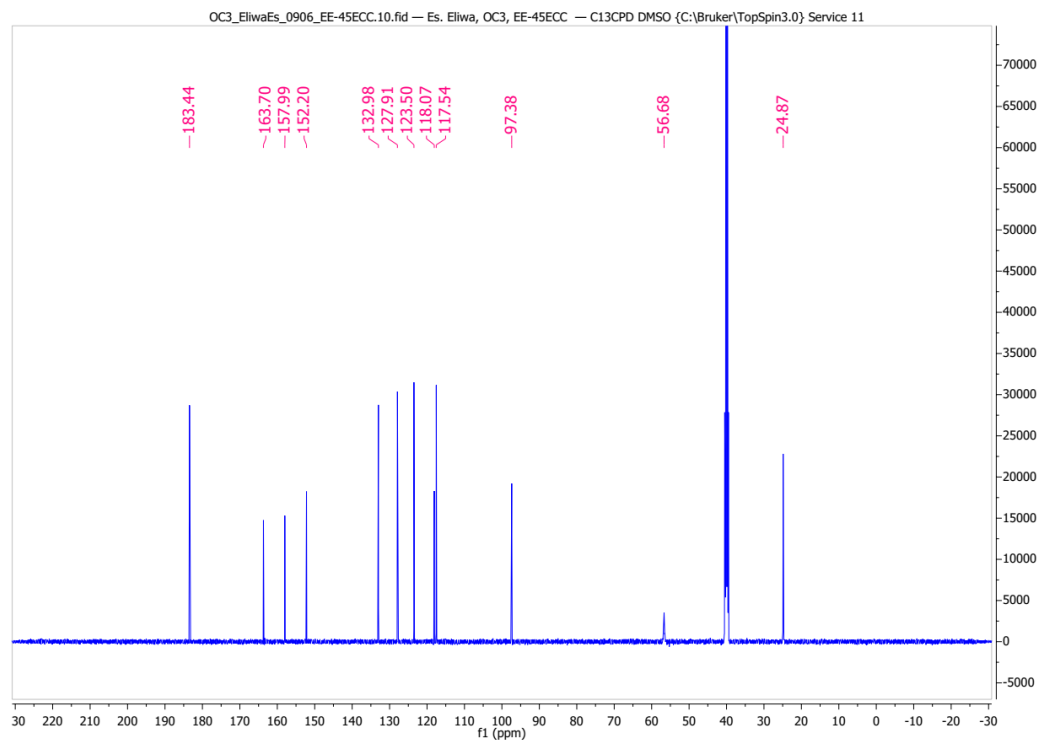


Figure S33. ^{13}C NMR (125 MHz, $\text{DMSO-}d_6$) of **5a**

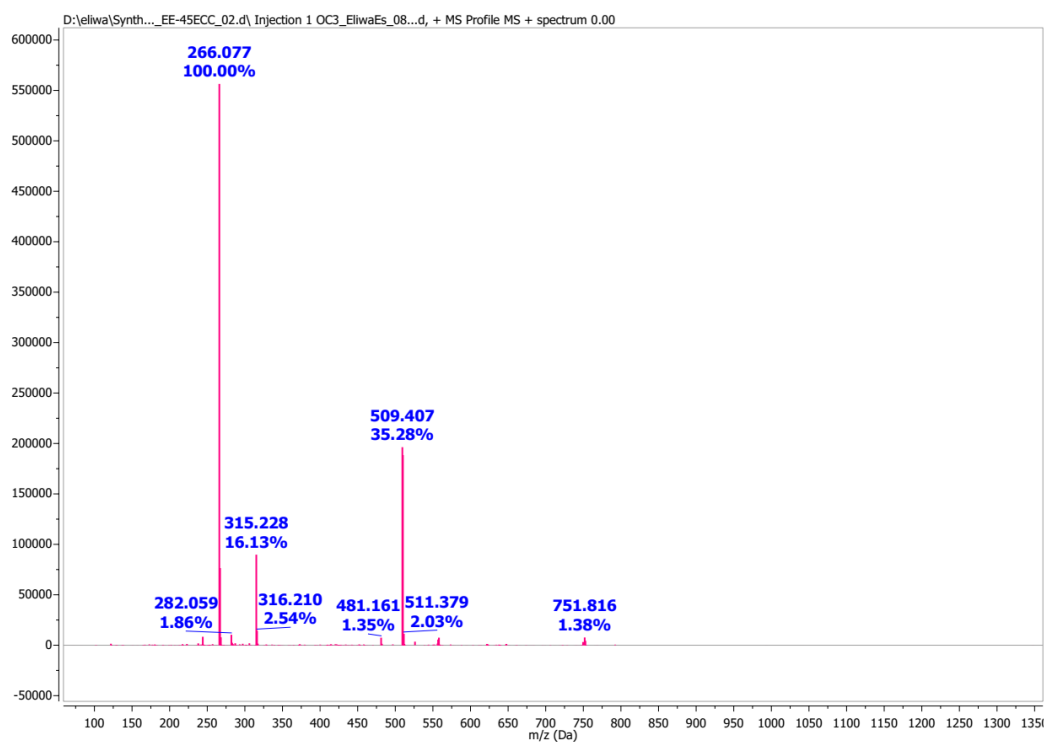


Figure S34. (+)-ESI-MS of **5a**

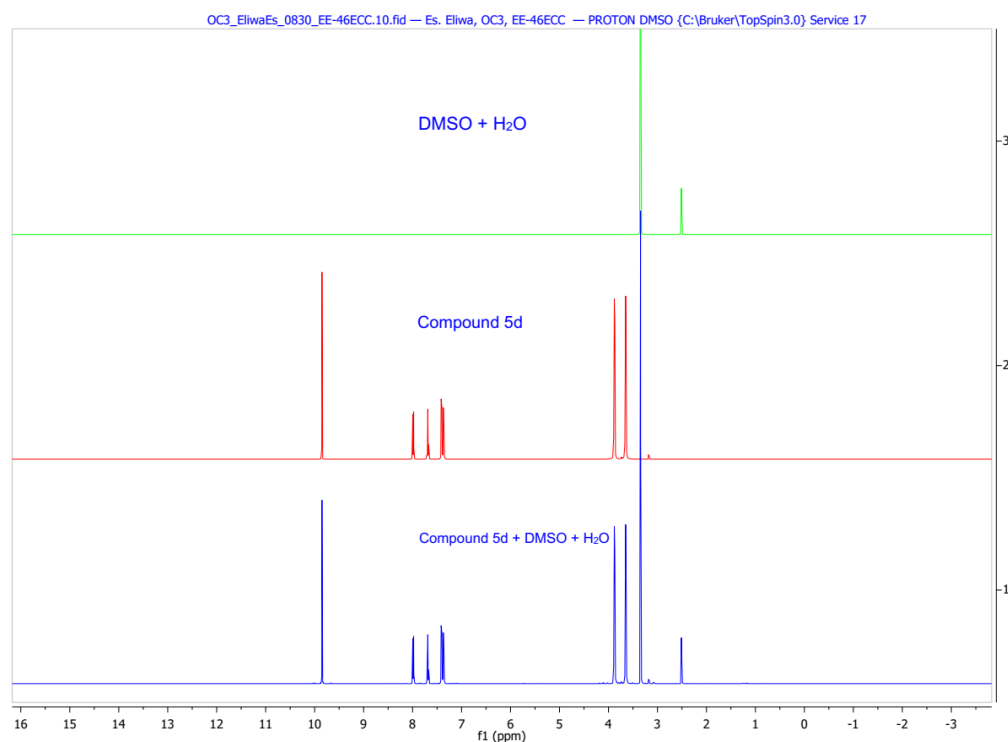
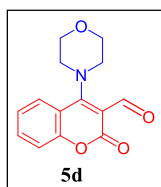


Figure S35A. ¹H NMR (500 MHz, DMSO-*d*₆) of **5d**

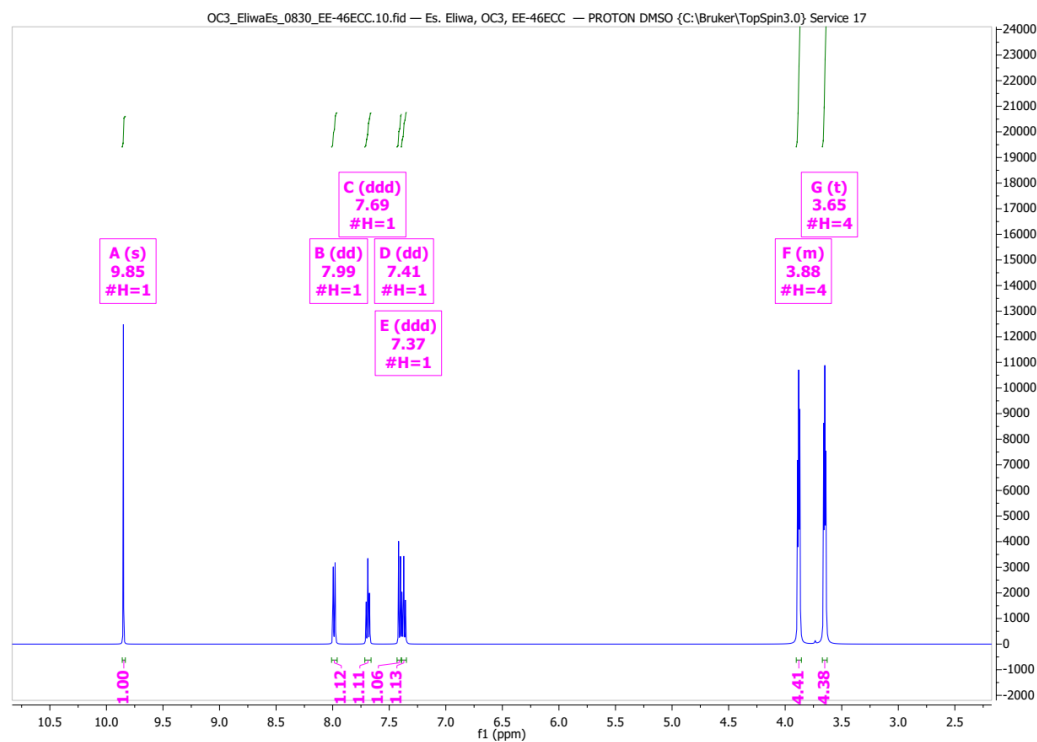


Figure S35B. ¹H NMR (500 MHz, DMSO-*d*₆) of **5d**

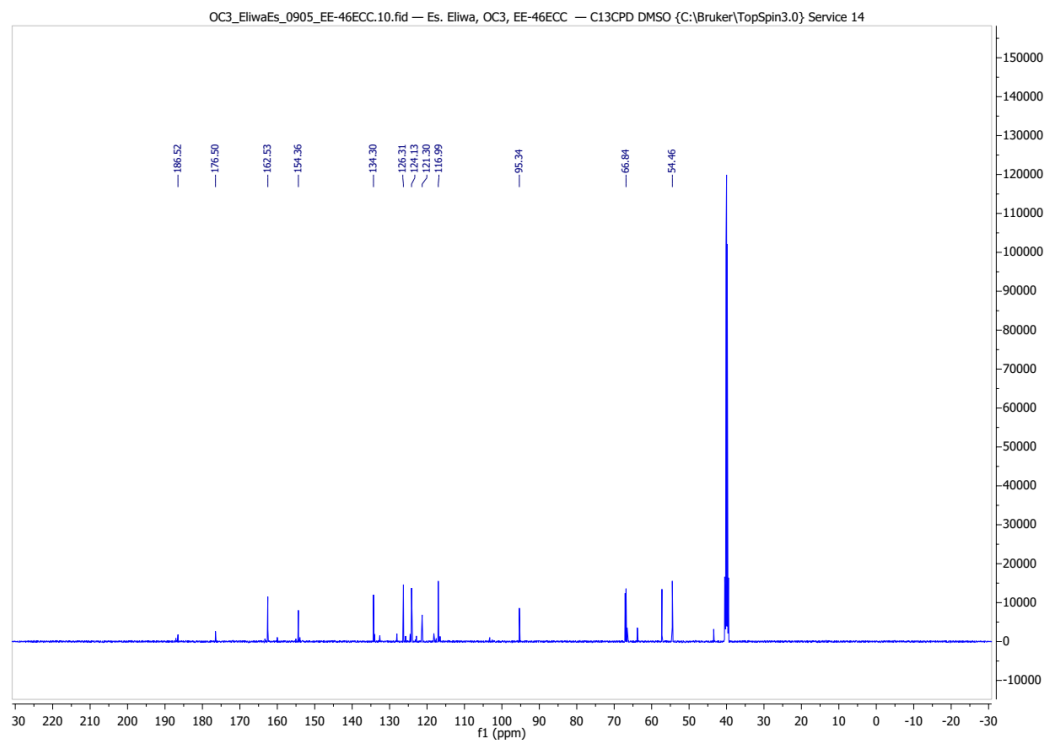


Figure S36. ^{13}C NMR (125 MHz, $\text{DMSO-}d_6$) of **5d**

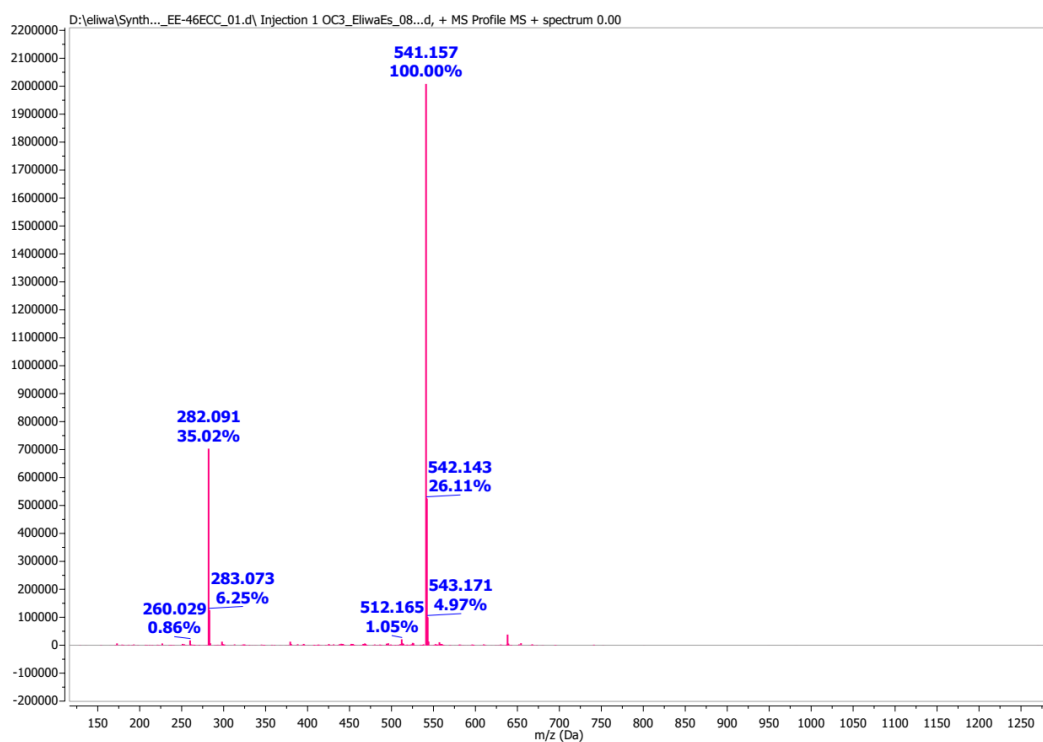


Figure S37. (+)-ESI-MS of **5d**

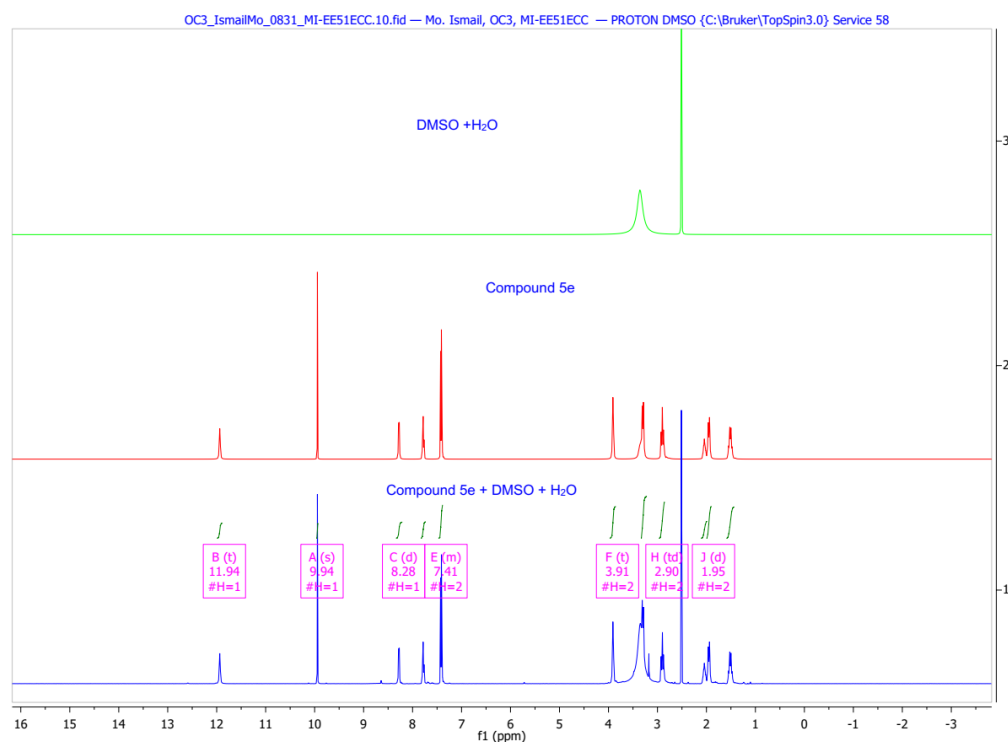
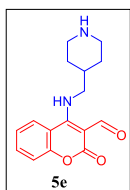


Figure S38A. ¹H NMR (500 MHz, DMSO-*d*₆) of 5e

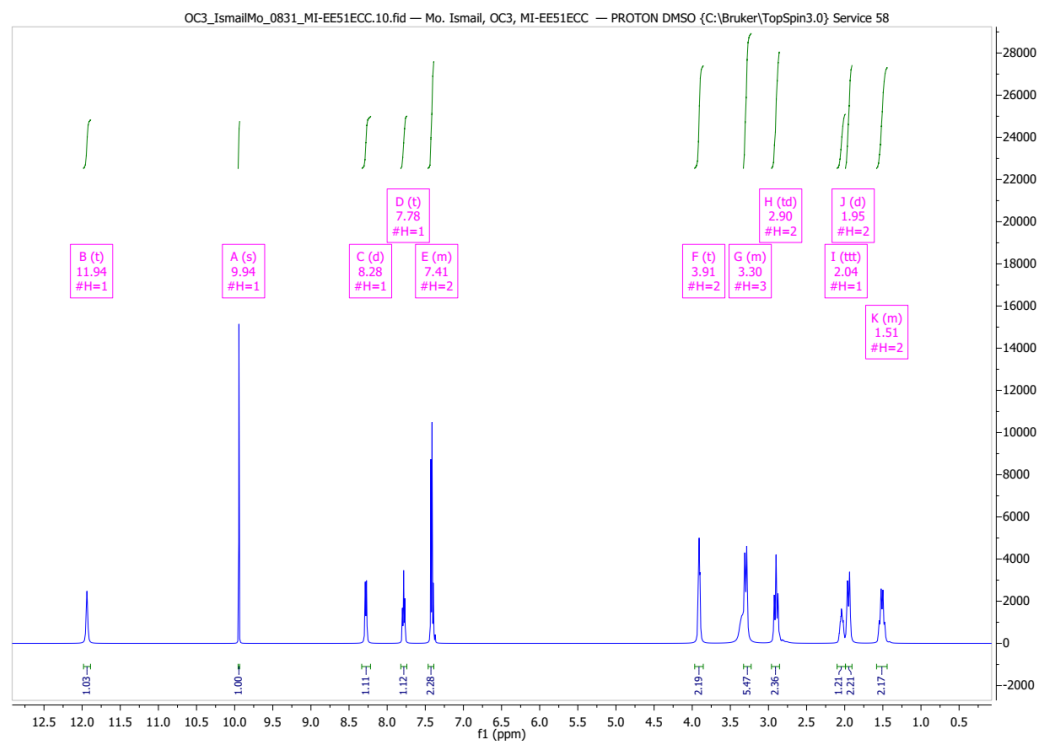


Figure S38B. ¹H NMR (500 MHz, DMSO-*d*₆) of 5e

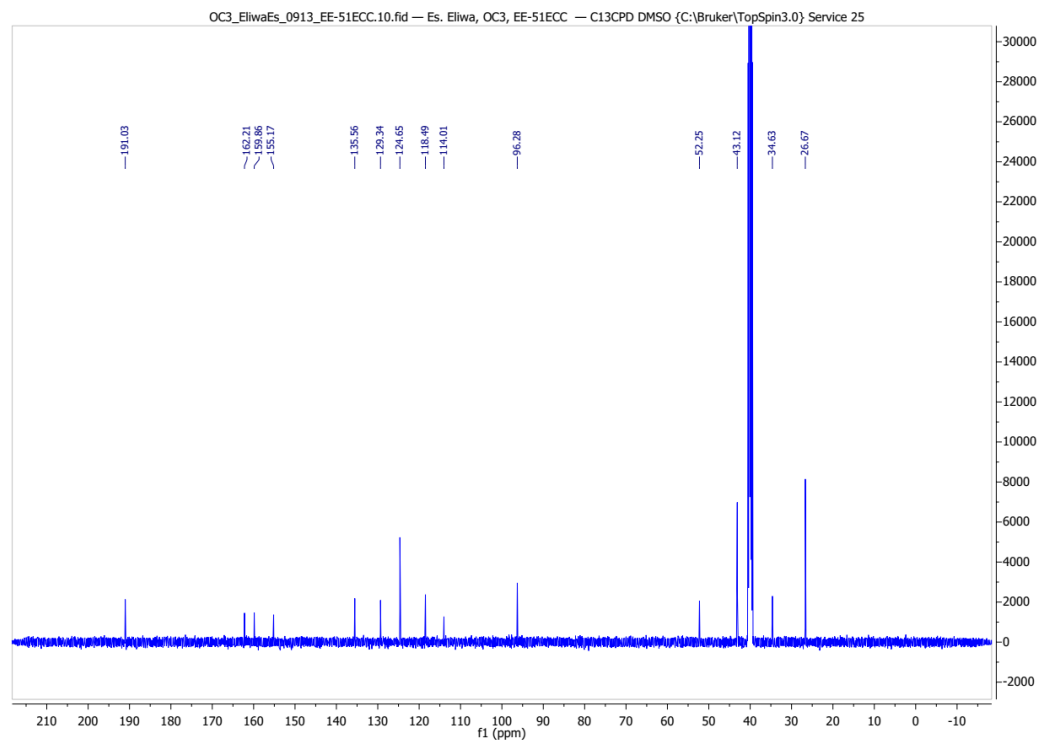


Figure S39. ^{13}C NMR (125 MHz, $\text{DMSO-}d_6$) of **5e**

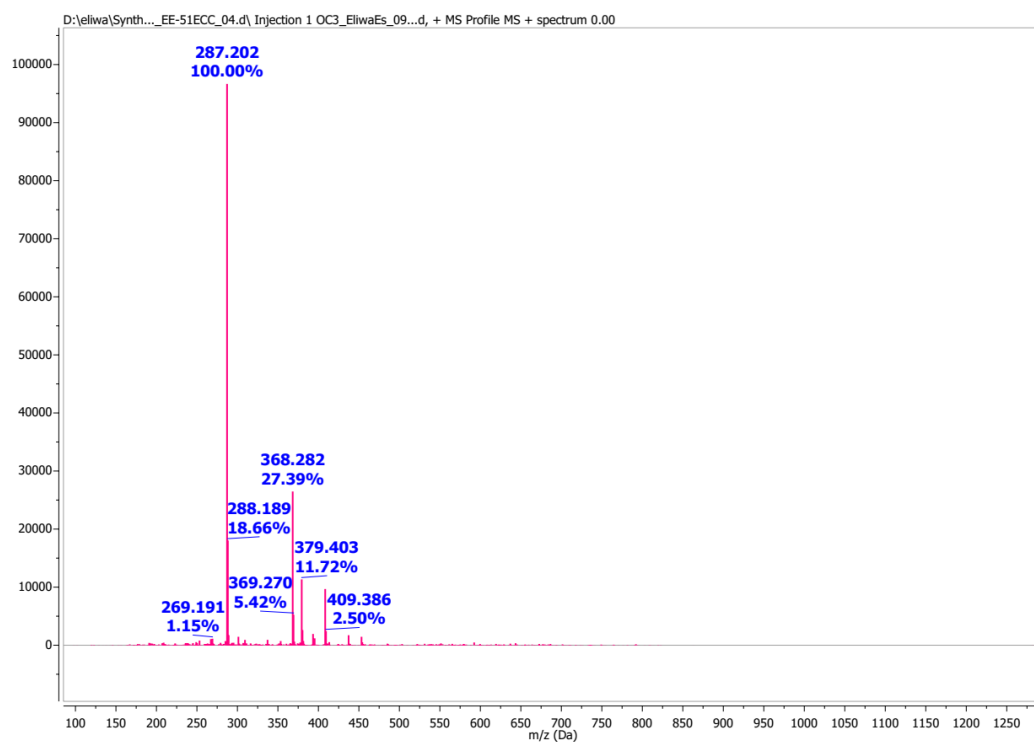


Figure S40. (+)-ESI-MS of **5e**

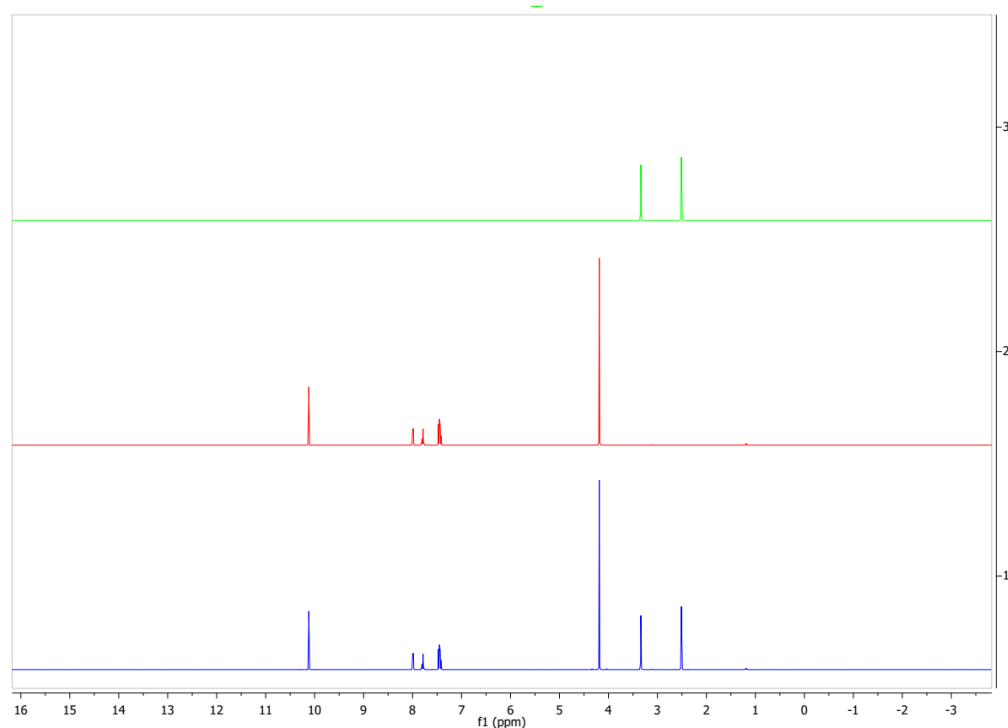
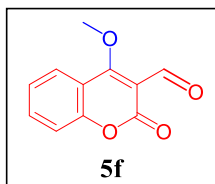


Figure S41A. ^1H NMR (500 MHz, $\text{DMSO}-d_6$) of **5f**

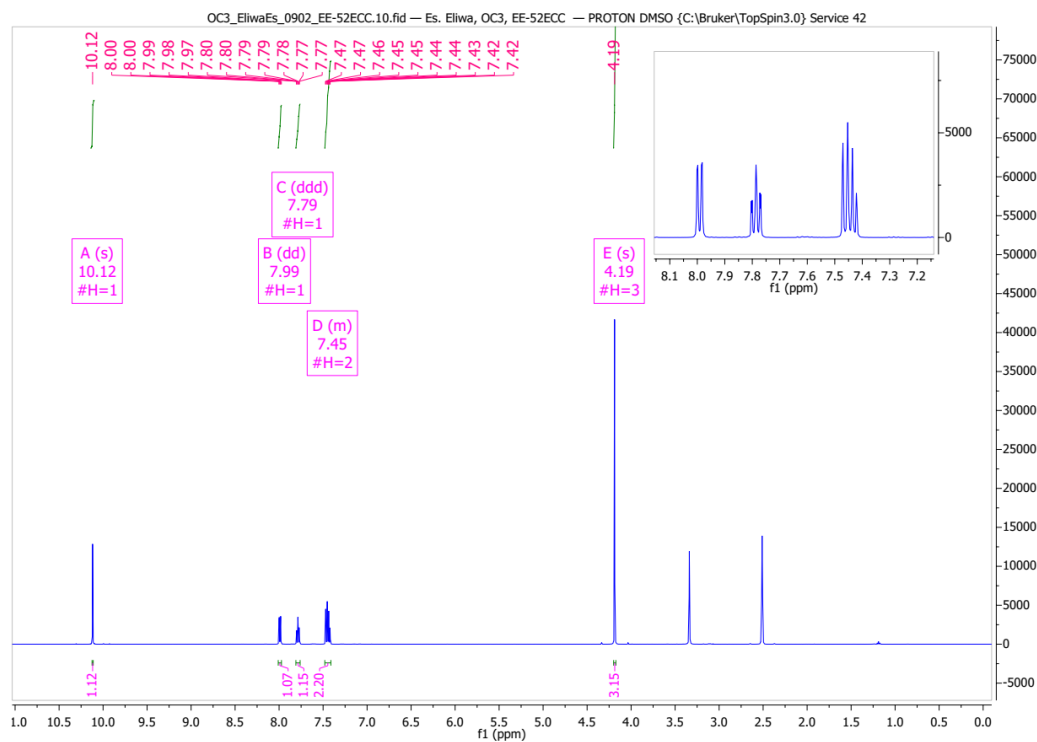


Figure S41B. ^1H NMR (500 MHz, $\text{DMSO}-d_6$) of **5f**

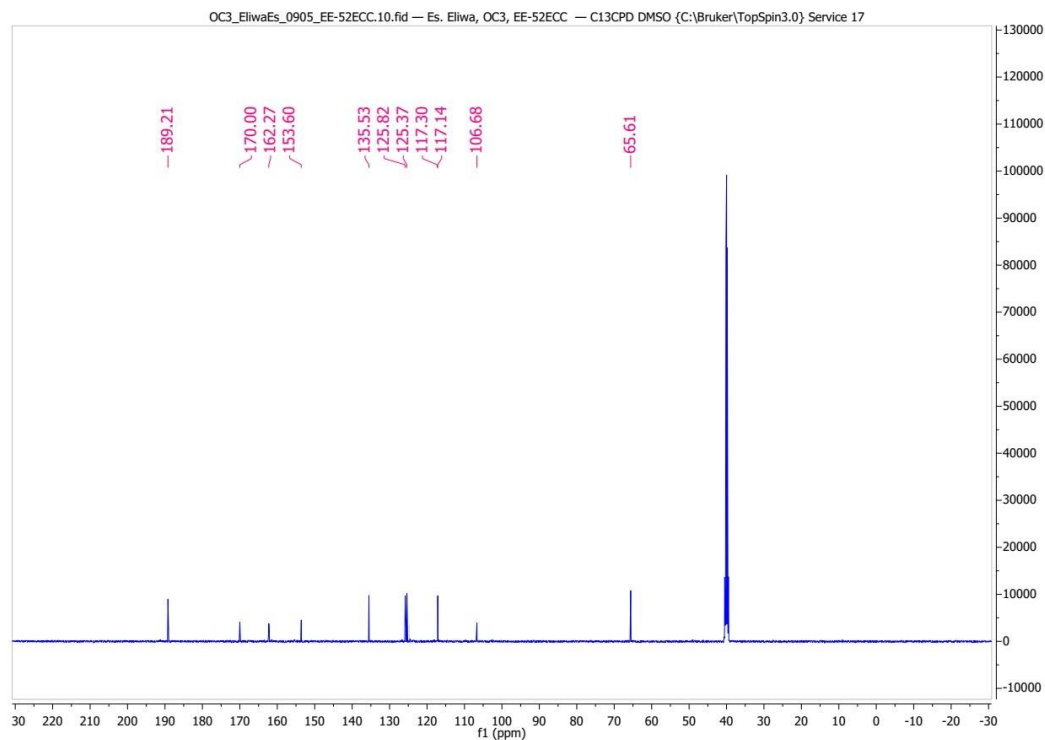


Figure S42. ^{13}C NMR (125 MHz, $\text{DMSO-}d_6$) of **5f**

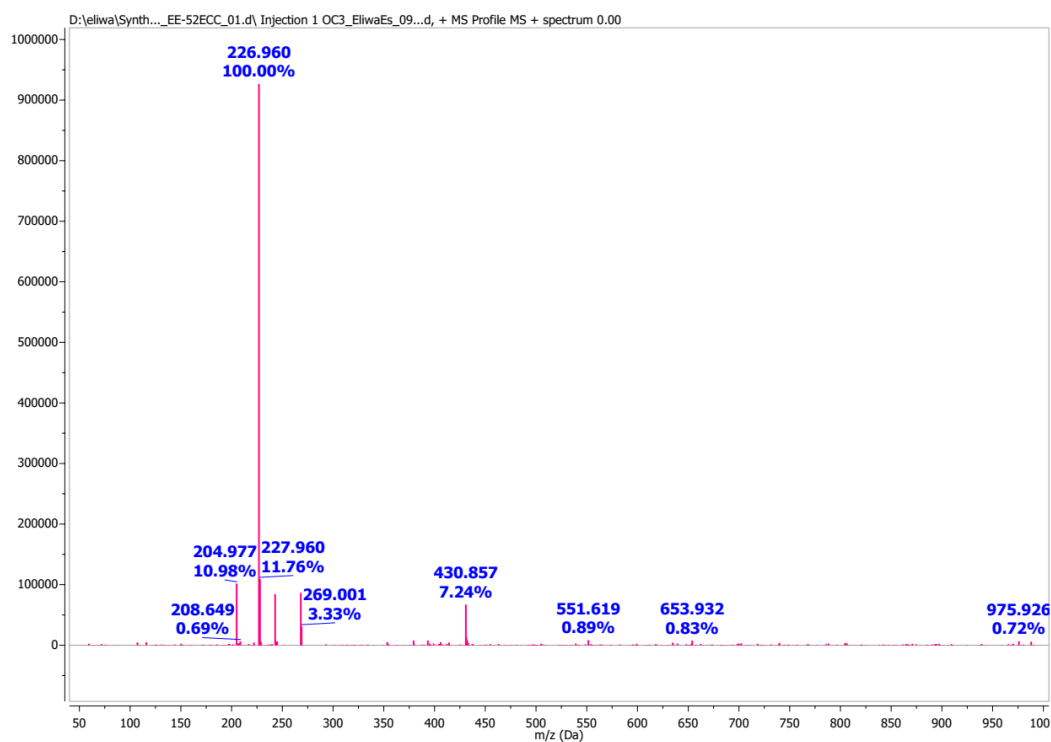


Figure S43. (+)-ESI-MS of **5f**

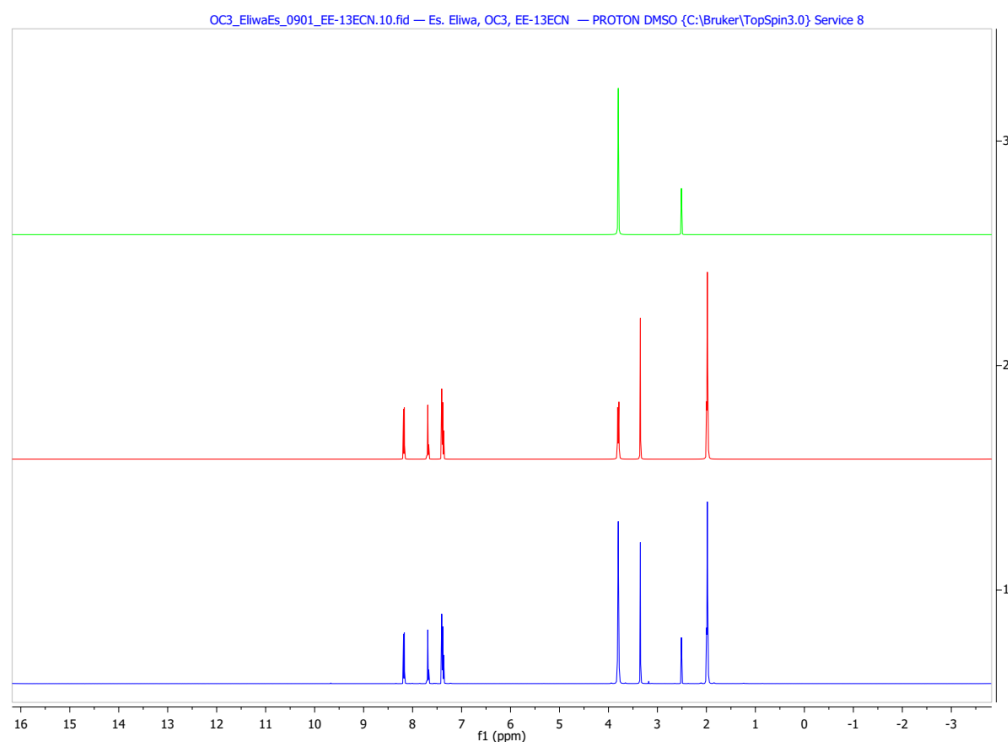
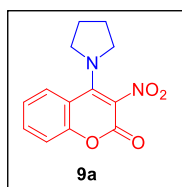


Figure S44A. ^1H NMR (500 MHz, $\text{DMSO-}d_6$) of **9a**

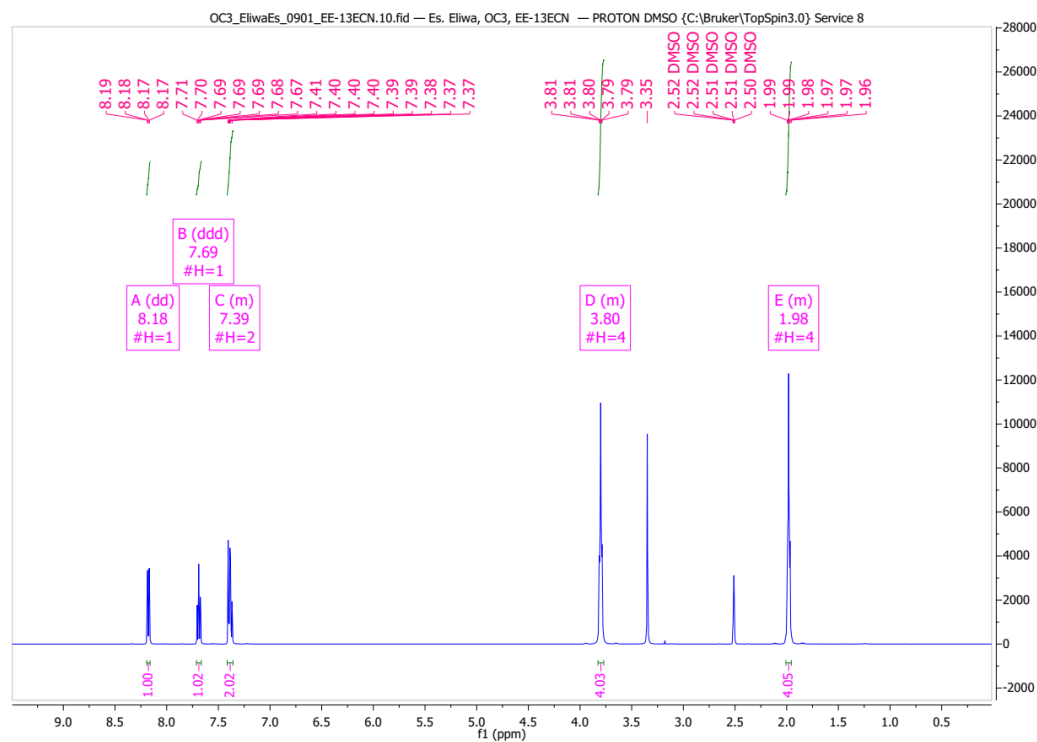


Figure S44B. ^1H NMR (500 MHz, $\text{DMSO-}d_6$) of **9a**

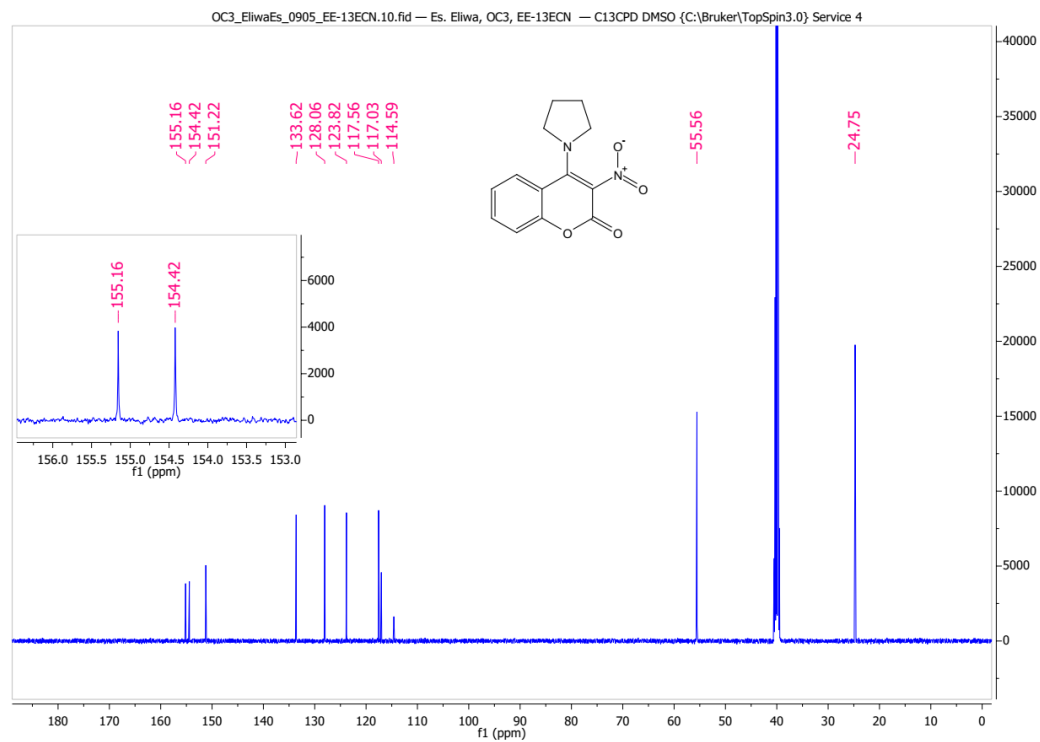


Figure S45. ^{13}C NMR (125 MHz, $\text{DMSO-}d_6$) of **9a**

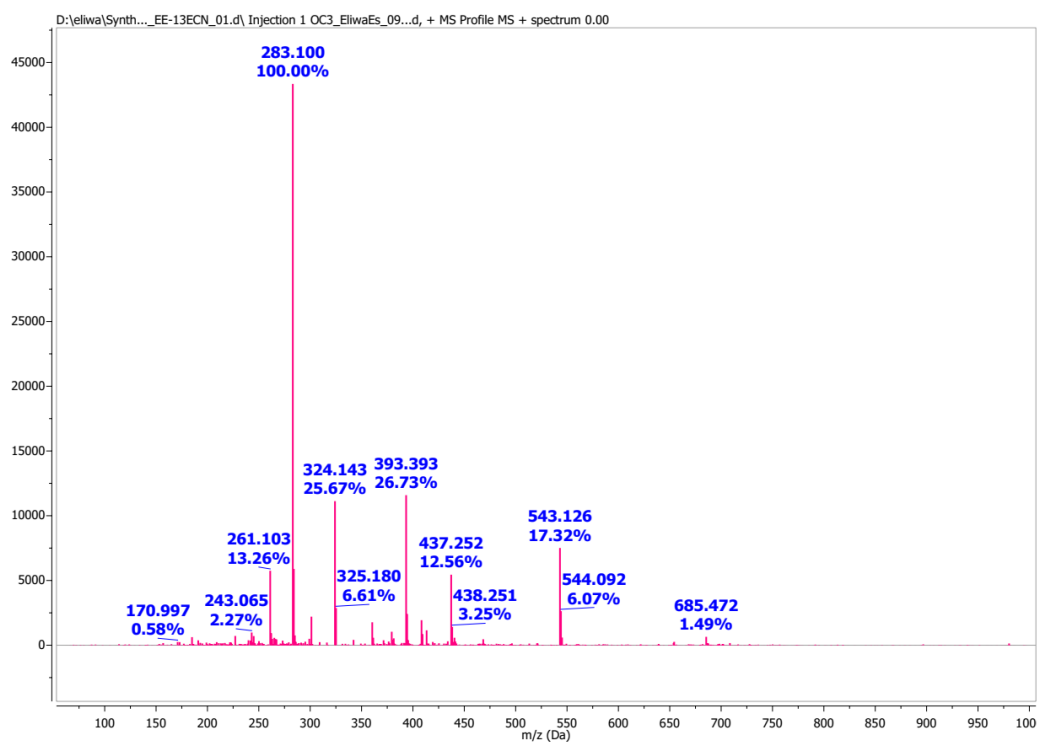


Figure S46. (+)-ESI-MS of **9a**

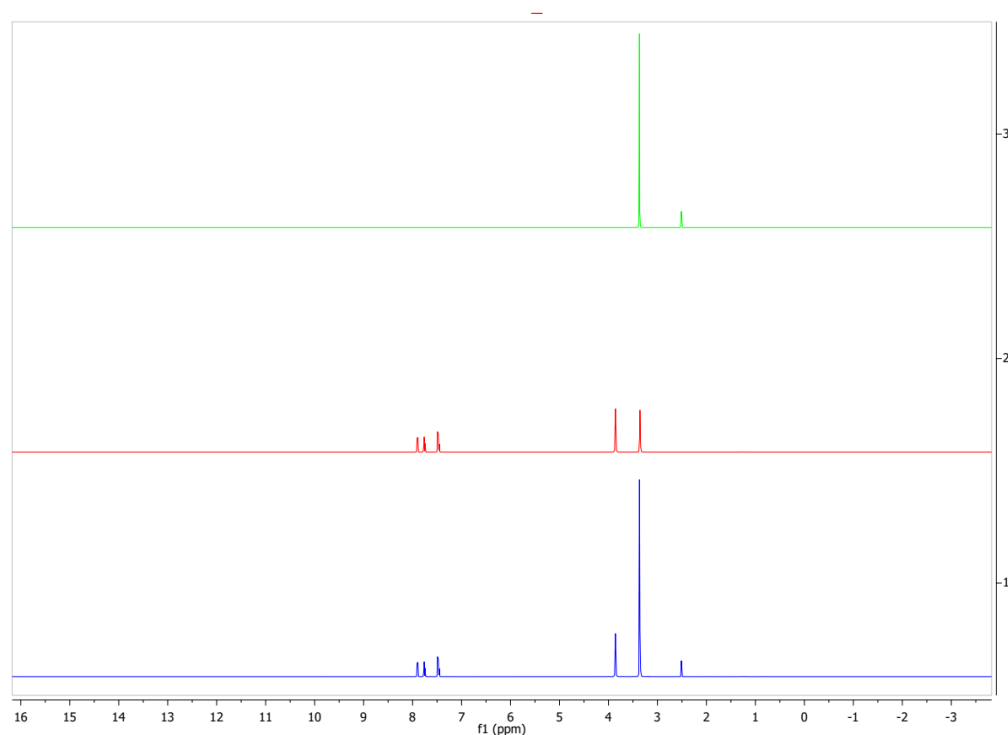
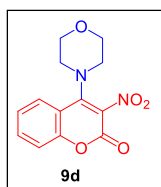


Figure S47A. ^1H NMR (500 MHz, $\text{DMSO}-d_6$) of **9d**

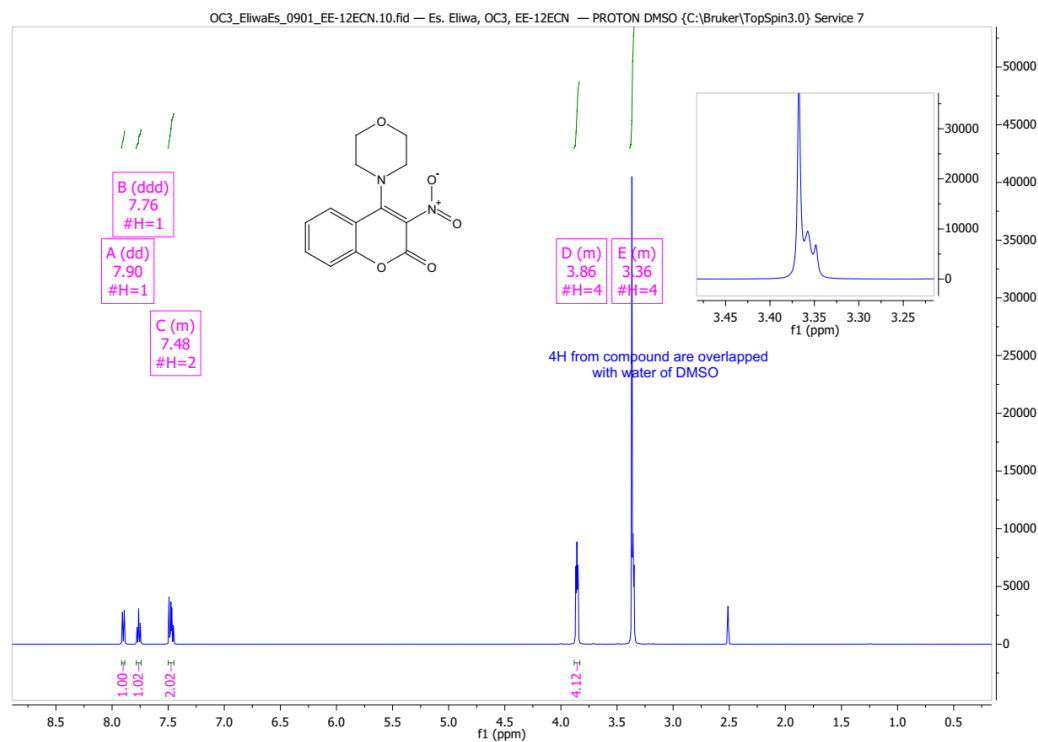


Figure S47B. ^1H NMR (500 MHz, $\text{DMSO}-d_6$) of **9d**

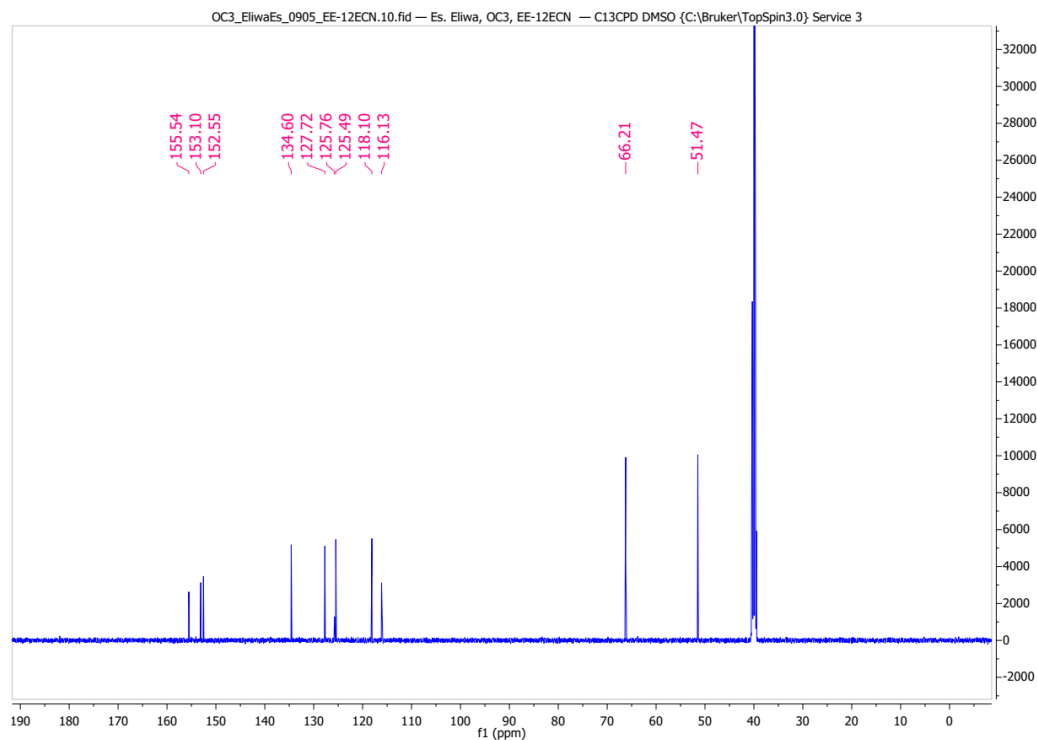


Figure S48. ^{13}C NMR (125 MHz, DMSO- d_6) of **9d**

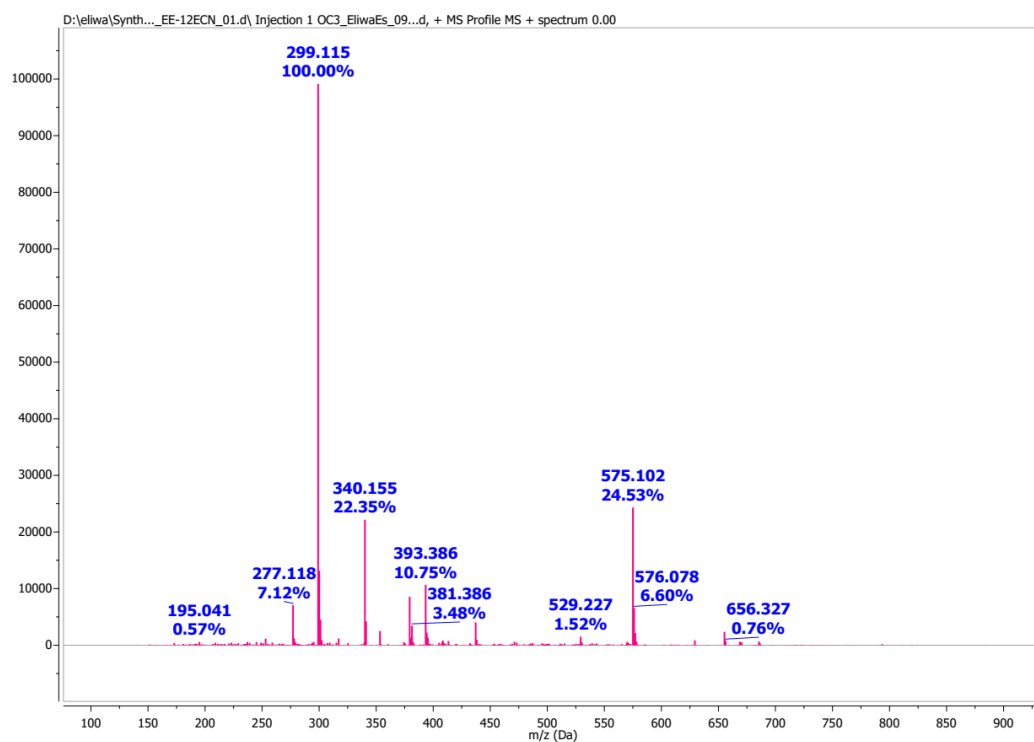


Figure S49. (+)-ESI-MS of **9d**

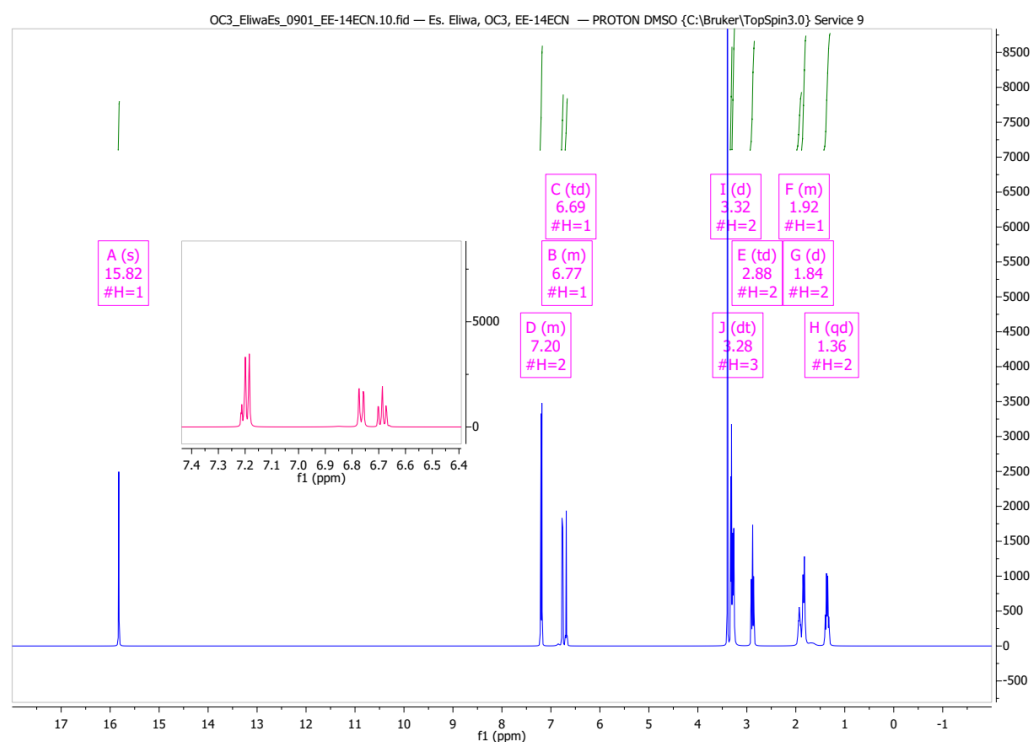
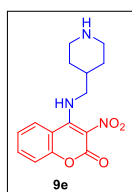


Figure S50. ^1H NMR (500 MHz, $\text{DMSO-}d_6$) of **9e**

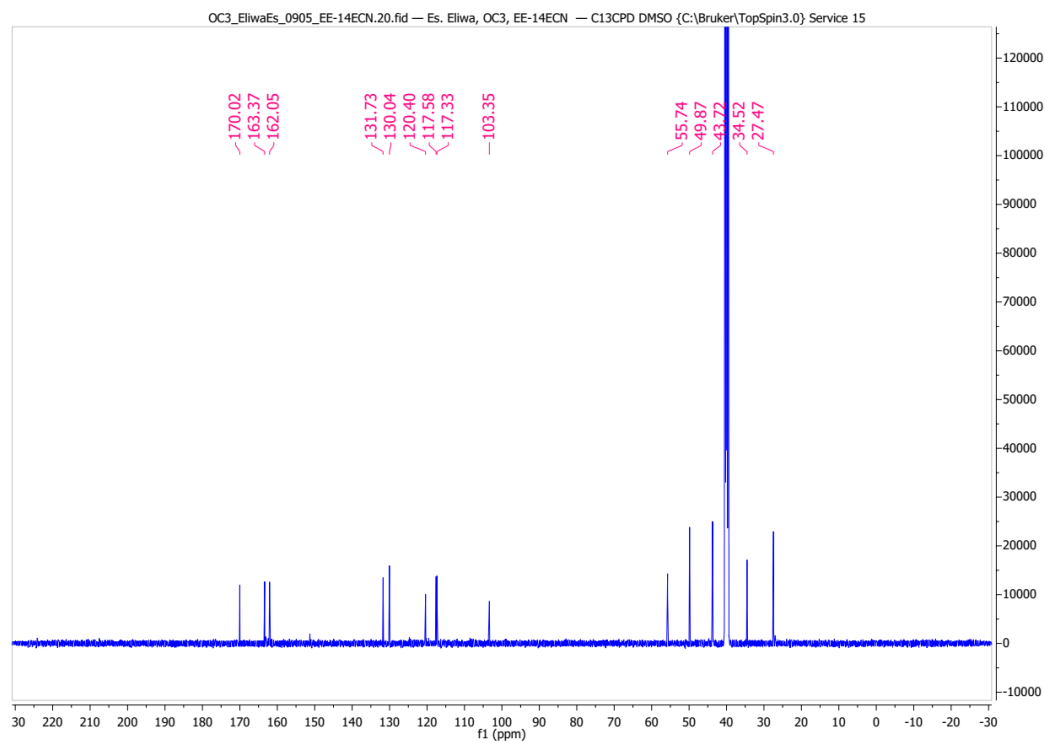
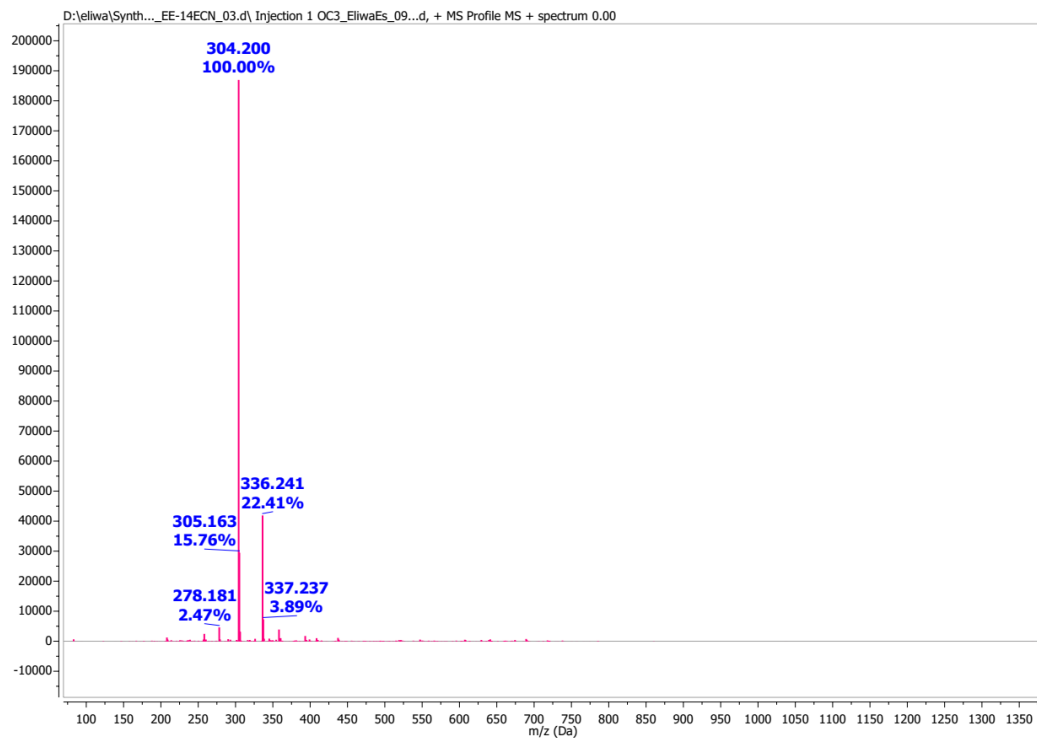
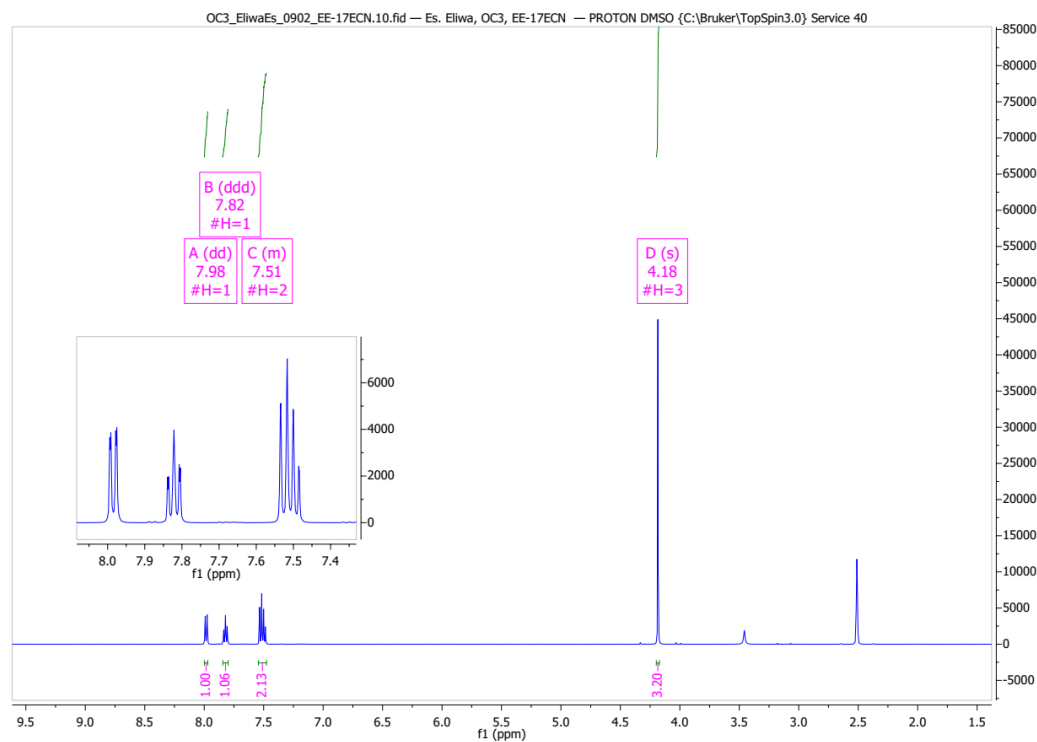
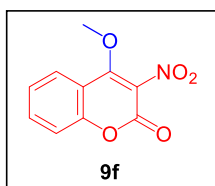


Figure S51. ^{13}C NMR (125 MHz, $\text{DMSO-}d_6$) of **9e**

**Figure S52.** (+)-ESI-MS of **9e****Figure S53.** ^1H NMR (500 MHz, $\text{DMSO-}d_6$) of **9f**

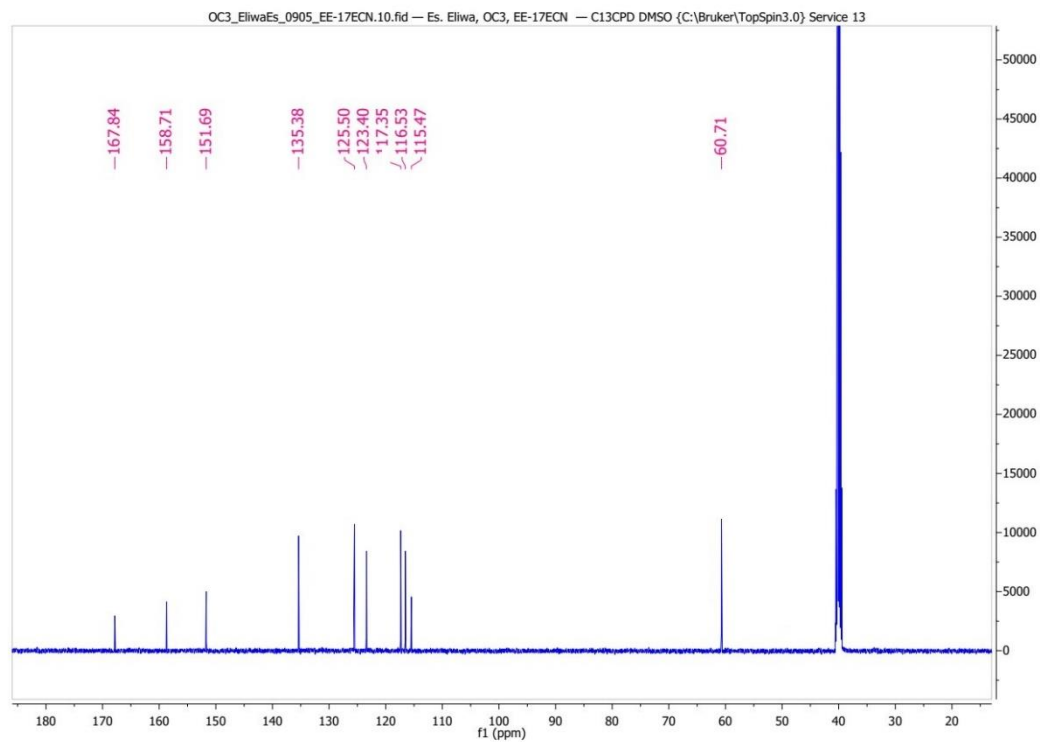


Figure S54. ^{13}C NMR (125 MHz, $\text{DMSO}-d_6$) of **9f**

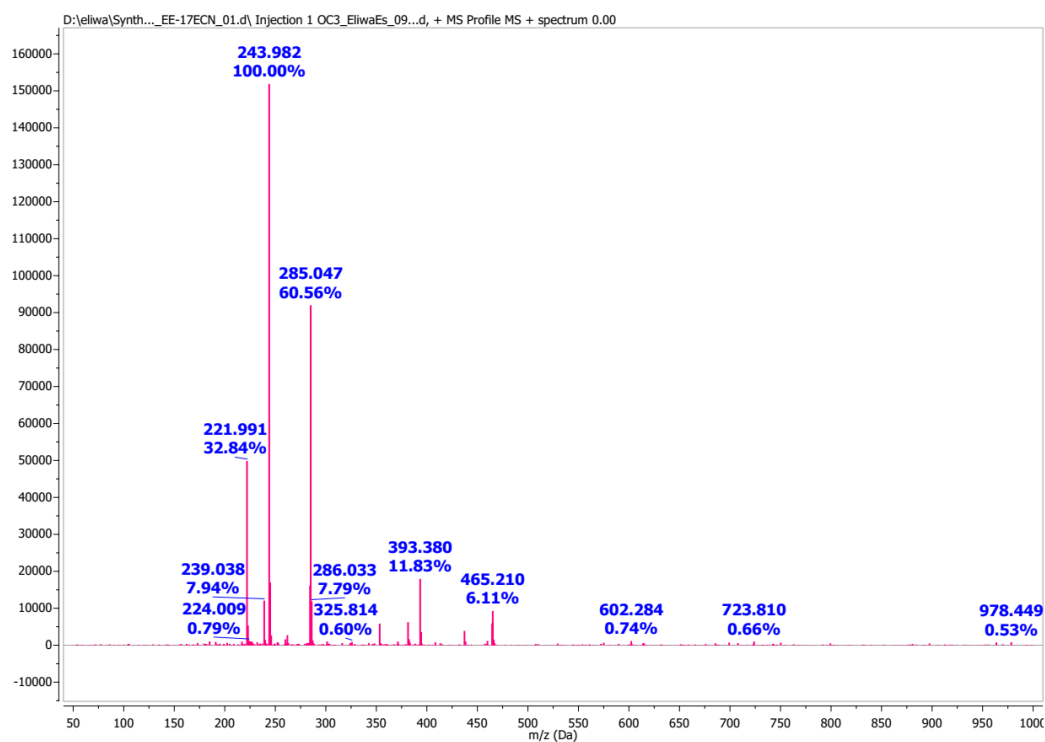


Figure S55. (+)-ESI-MS of **9f**