

Supporting Information

MICROWAVE-ASSISTED EFFICIENT SYNTHESIS OF 4-SUBSTITUTED AMINO-2-METHYLQUINOLINES CATALYZED BY *p*-TOLUENESULFONIC ACID

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Figure S1. $^1\text{H-NMR}$ Spectrum of compound **3a**

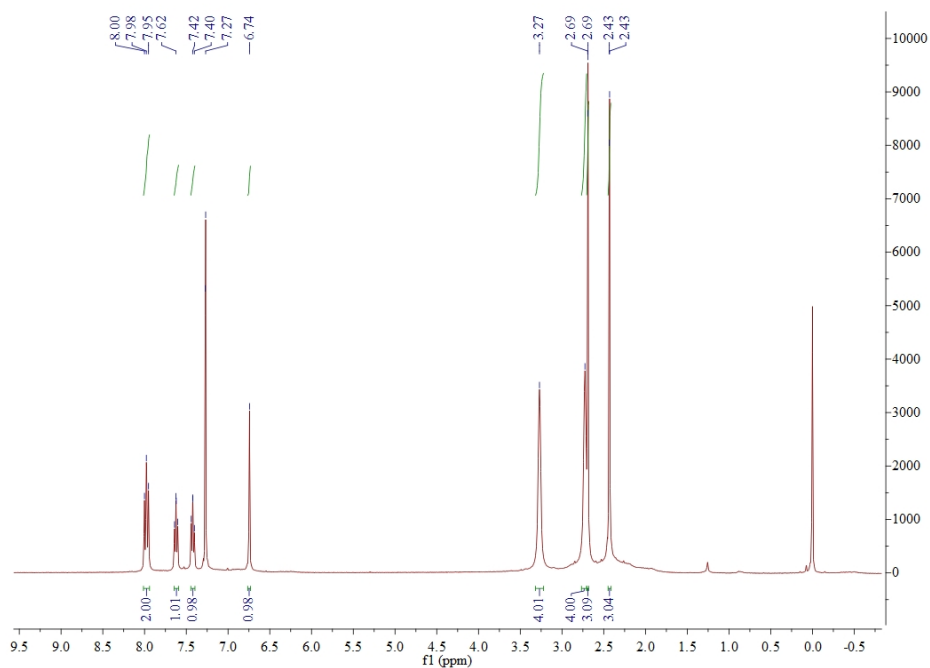


Figure S2. $^{13}\text{C-NMR}$ Spectrum of compound **3a**

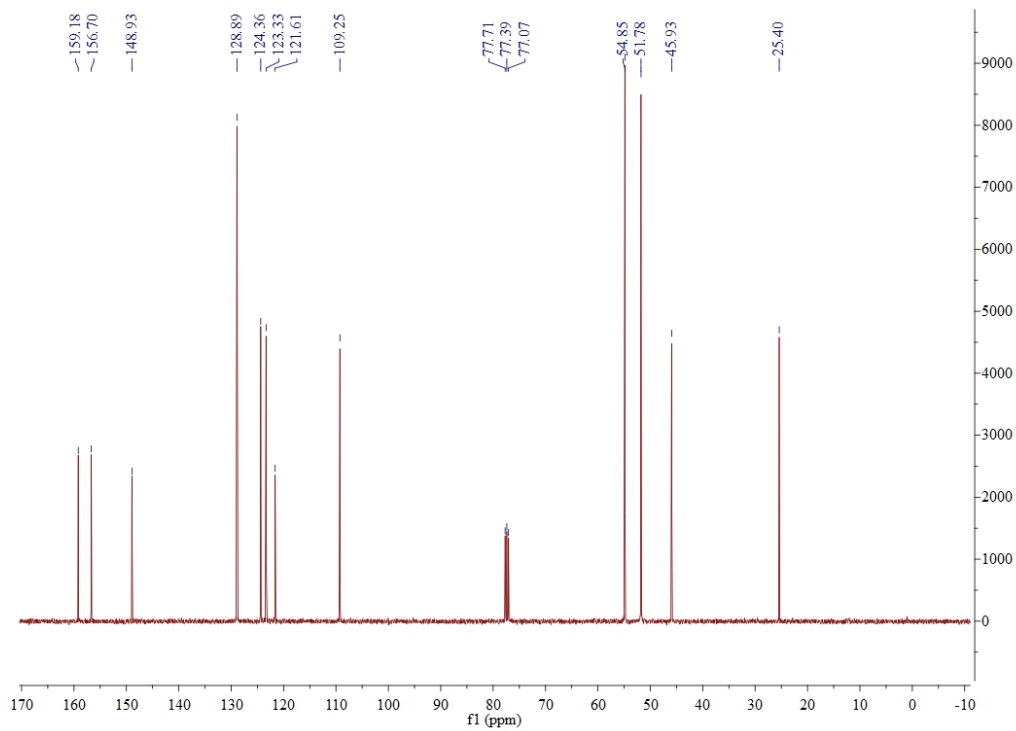
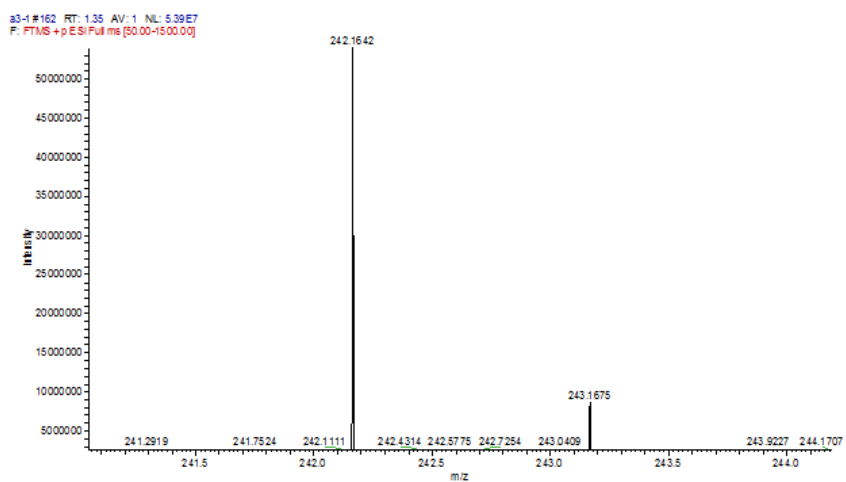


Figure S3. HRMS Spectrum of compound **3a**



Idx	Formula	RDB	Delta mmu
1	C ₁₅ H ₂₀ N ₃	7.5	-1.004

Calculated 242.1652 Found 242.1642

Figure S4. ¹H-NMR Spectrum of compound **3b**

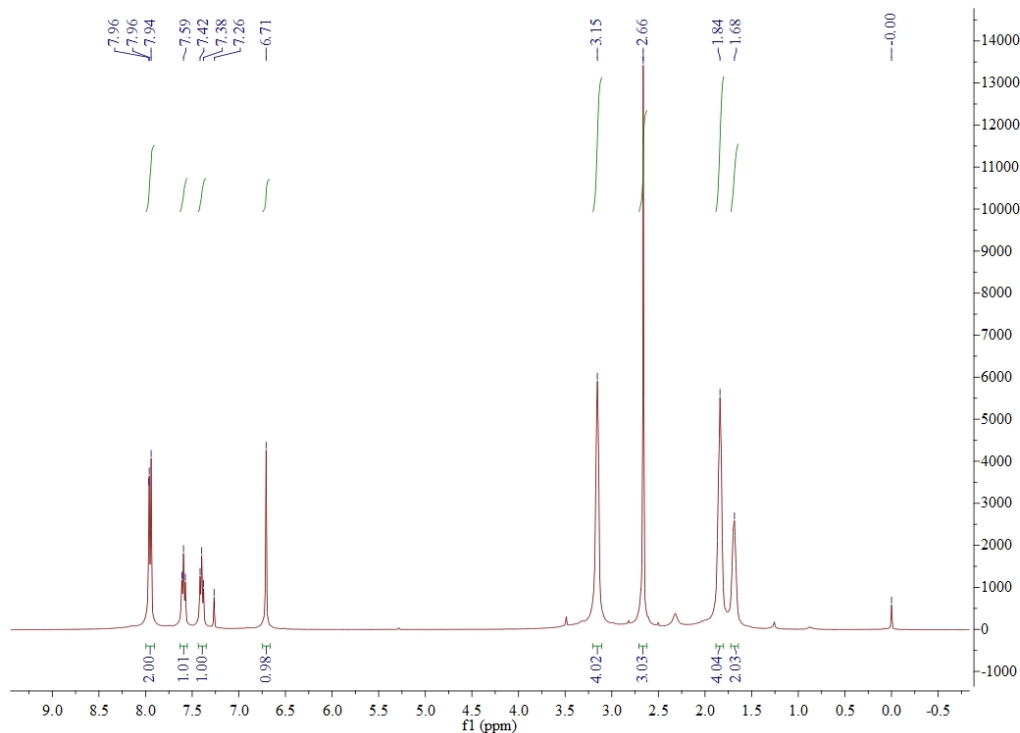


Figure S5. ^{13}C -NMR Spectrum of compound **3b**

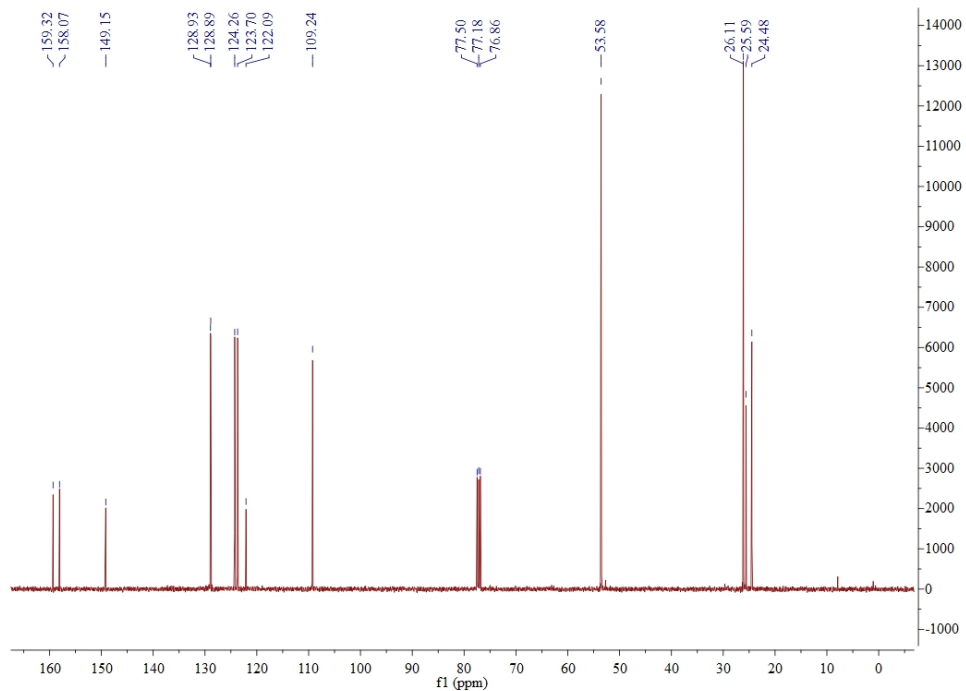


Figure S6. HRMS Spectrum of compound **3b**

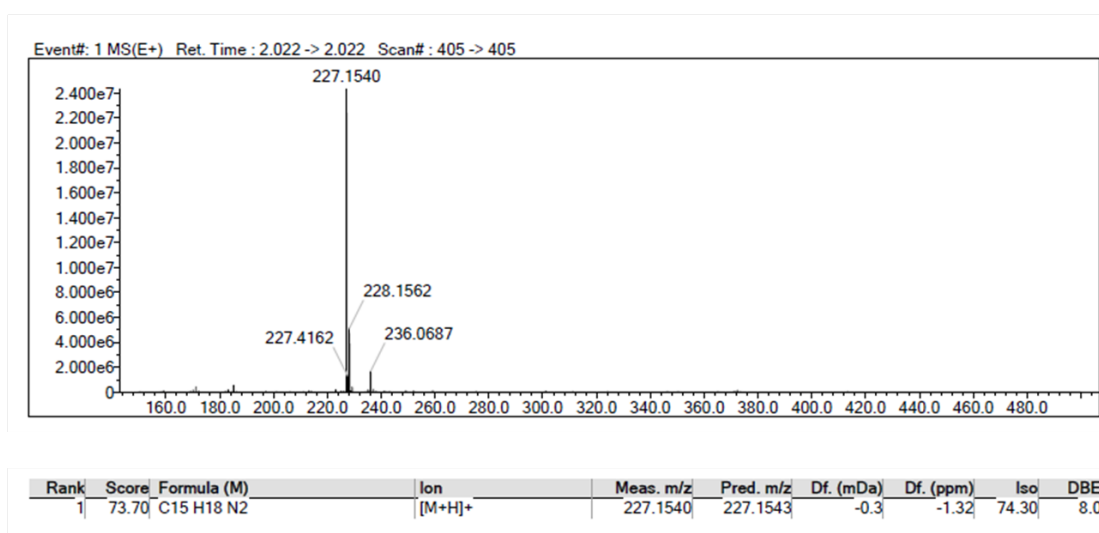


Figure S7. $^1\text{H-NMR}$ Spectrum of compound **3c**

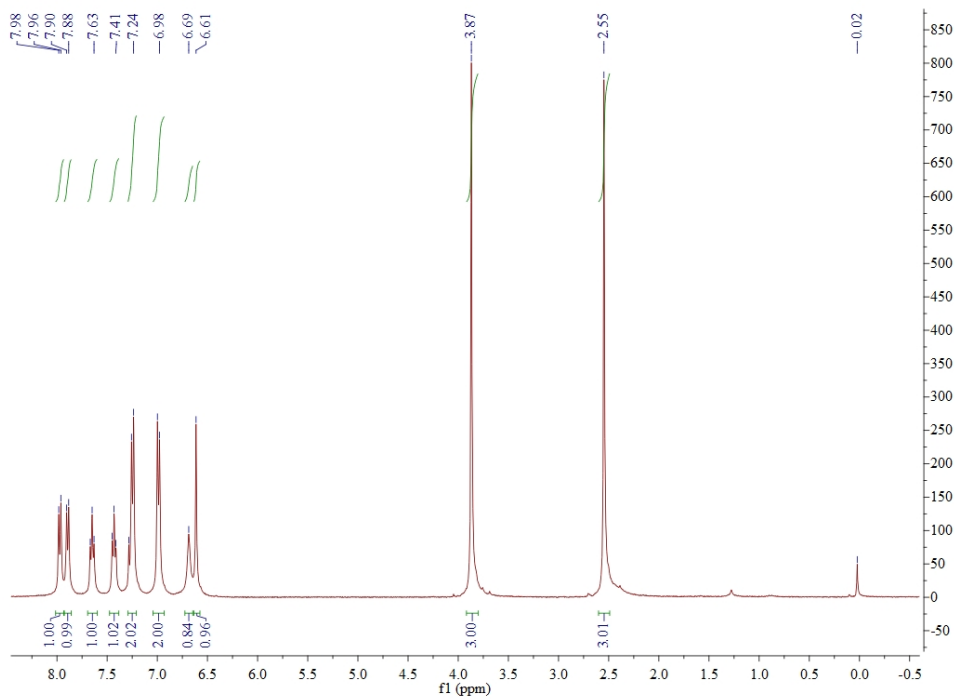


Figure S8. $^{13}\text{C-NMR}$ Spectrum of compound **3c**

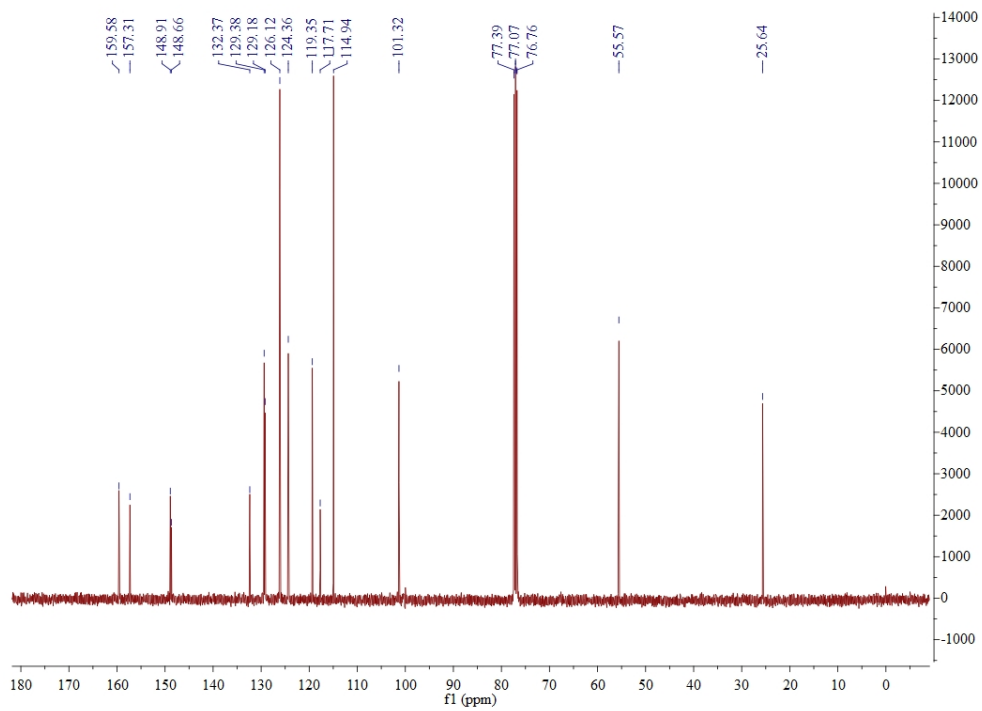
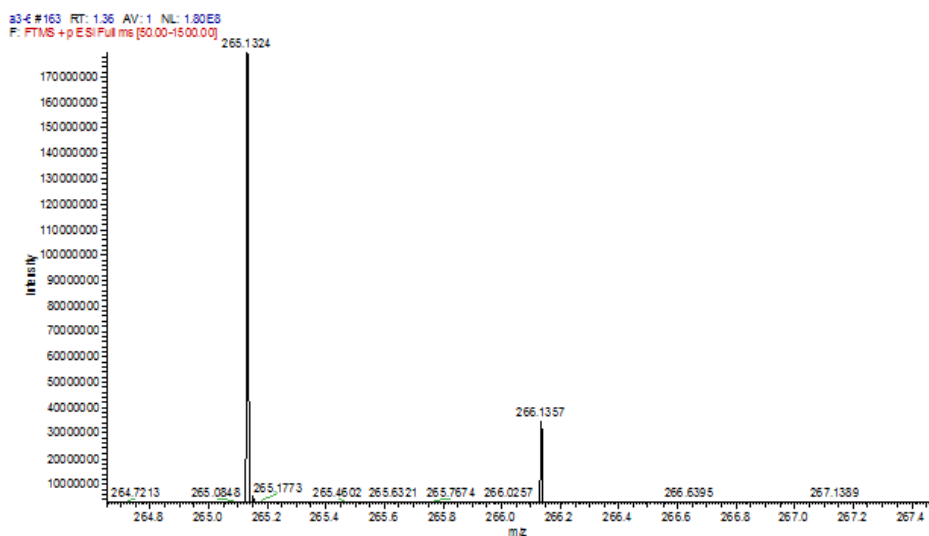


Figure S9. HRMS Spectrum of compound 3c



Idx	Formula	RDB	Delta mmu
1	C17 H17 O N2	10.5	-1.150

Calculated 265.1335 Found 265.1324

Figure S10. ¹H-NMR Spectrum of compound 3d

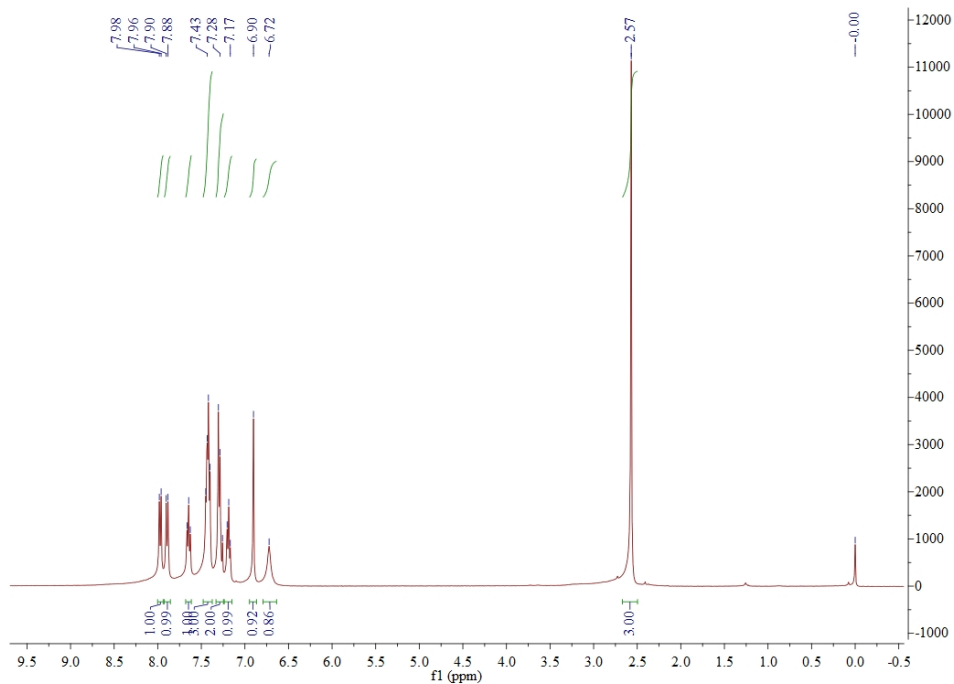


Figure S11. ^{13}C -NMR Spectrum of compound 3d

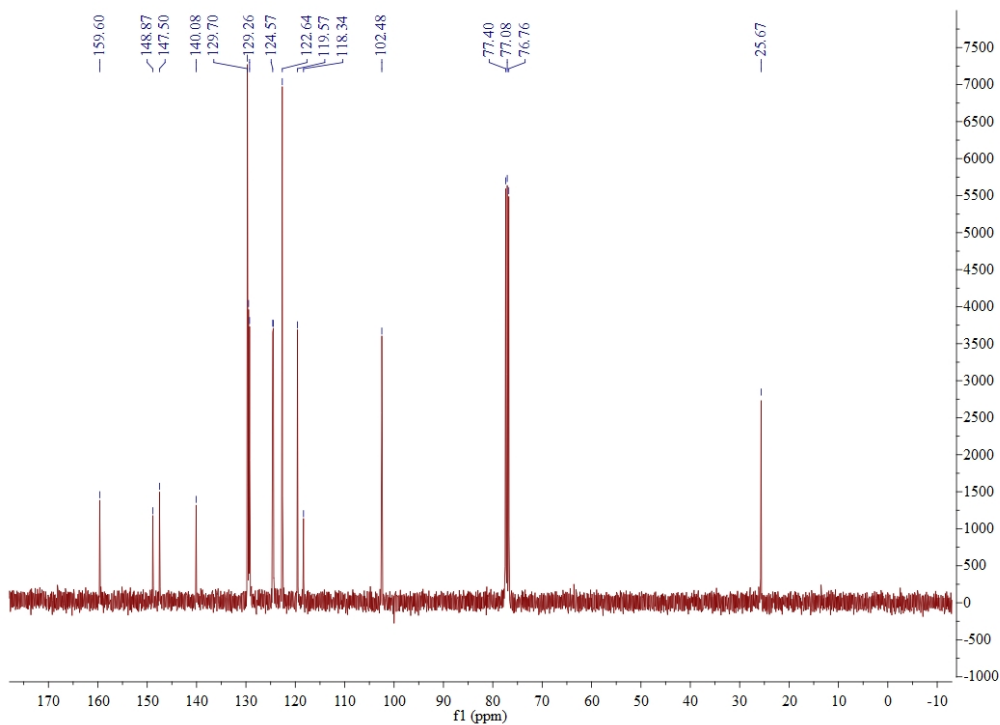
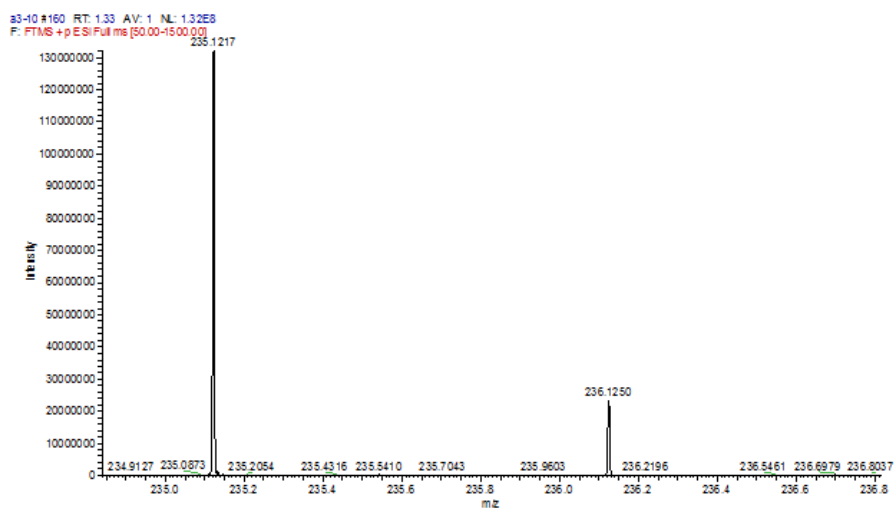


Figure S12. HRMS Spectrum of compound 3d



Idx	Formula	RDB	Delta mmu
1	$\text{C}_{16}\text{H}_{15}\text{N}_2$	10.5	-1.225

Calculated 235.1230 Found 235.1217

Figure S13. $^1\text{H-NMR}$ Spectrum of compound **3e**

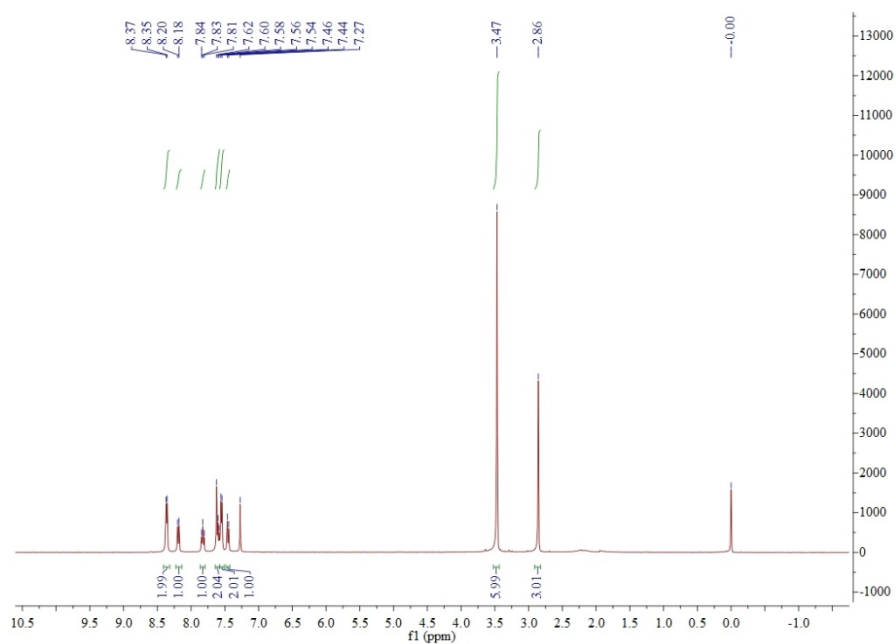


Figure S14. $^{13}\text{C-NMR}$ Spectrum of compound **3e**

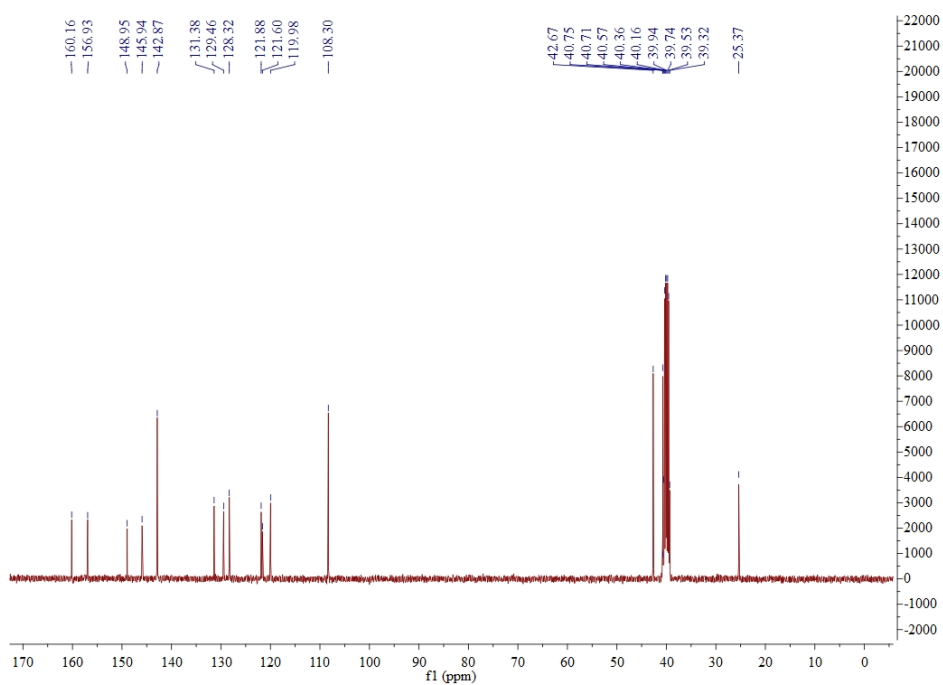
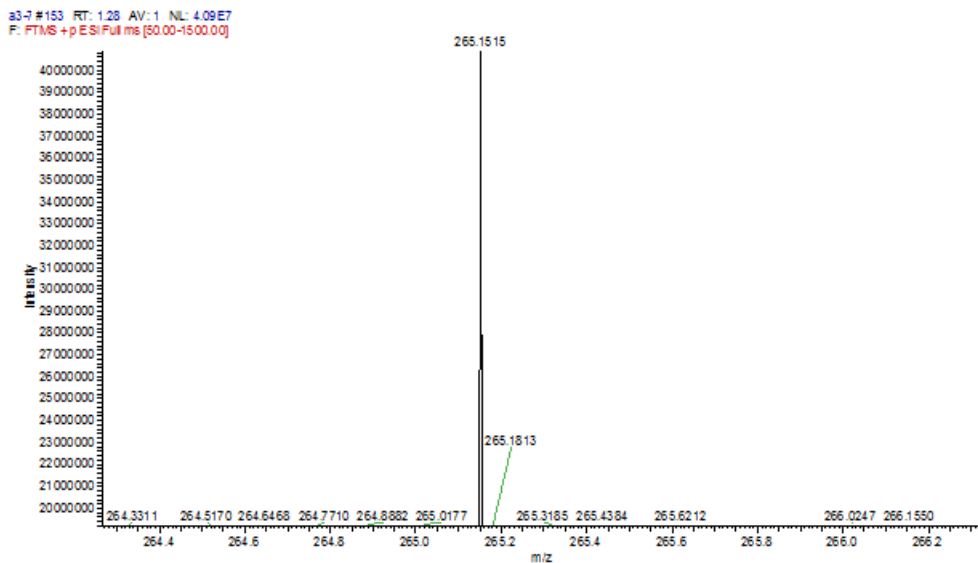


Figure S15. HRMS Spectrum of compound 3e



Idx	Formula	RDB	Delta mmu
1	C ₁₇ H ₁₉ N ₃	10.0	-5.889

Calculated 265.1573 Found 265.1515

Figure S16. ¹H-NMR Spectrum of compound 3f

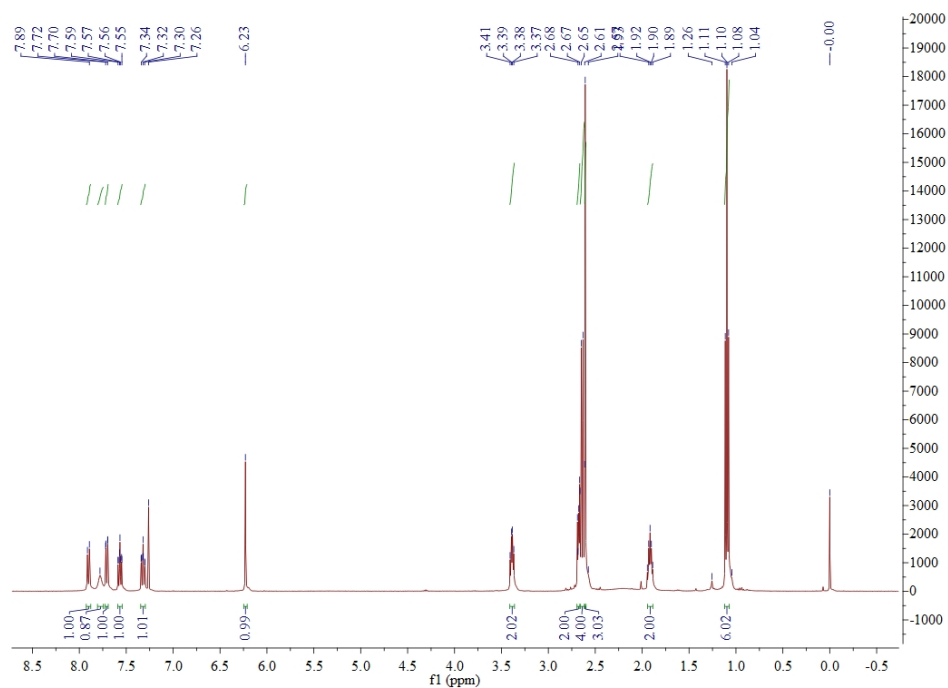


Figure S17. ^{13}C -NMR Spectrum of compound **3f**

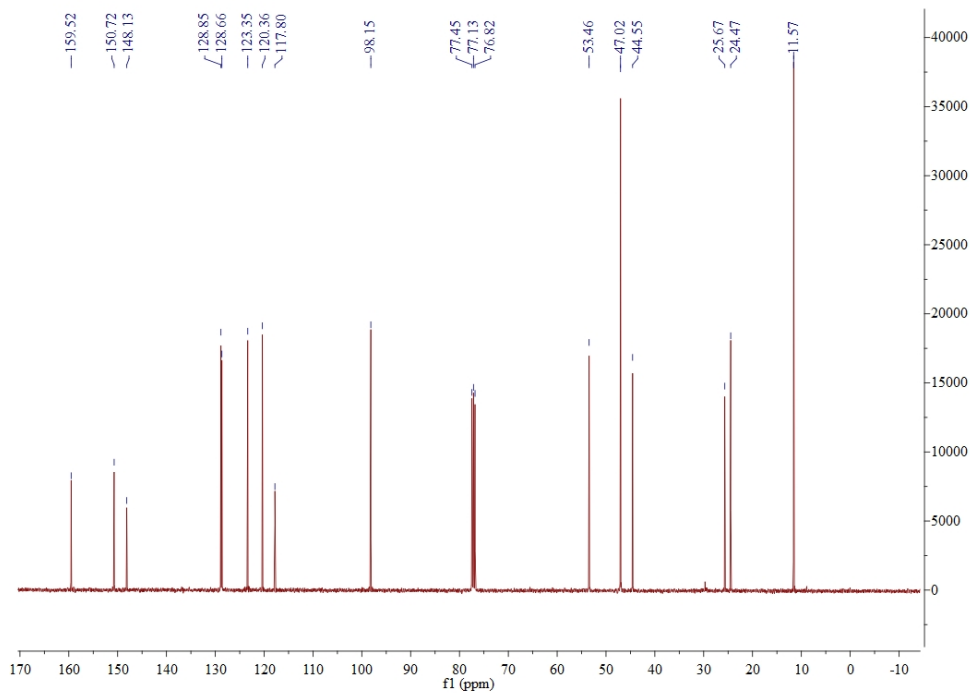


Figure S18. HRMS Spectrum of compound **3f**

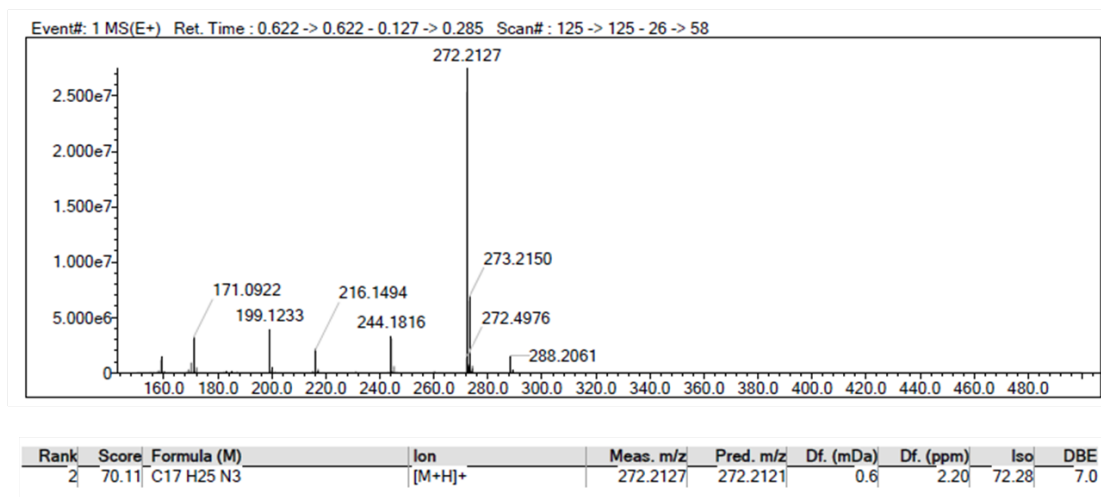


Figure S19. $^1\text{H-NMR}$ Spectrum of compound **3g**

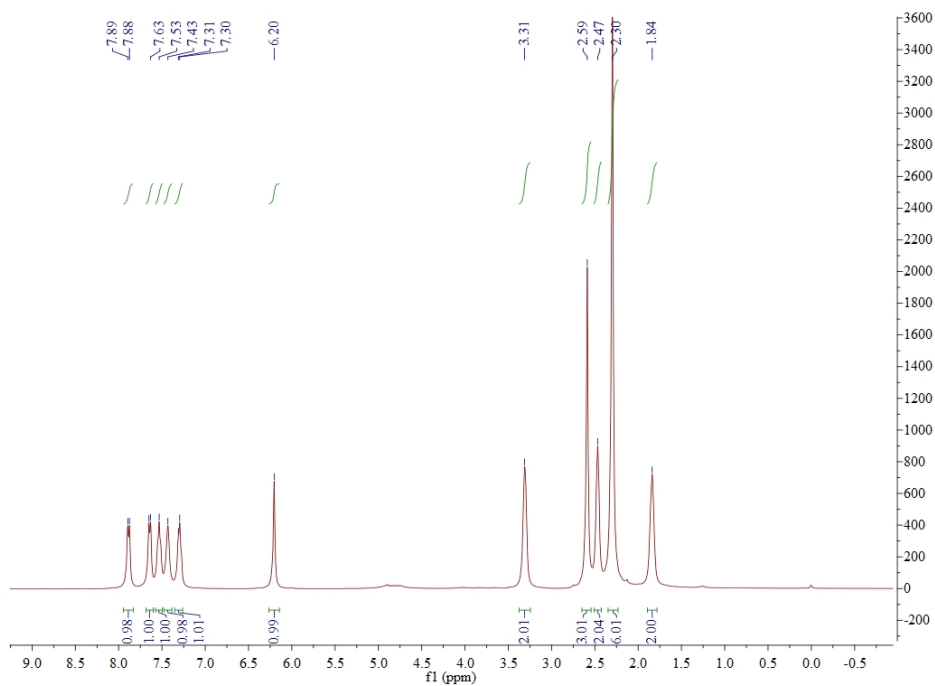


Figure S20. $^{13}\text{C-NMR}$ Spectrum of compound **3g**

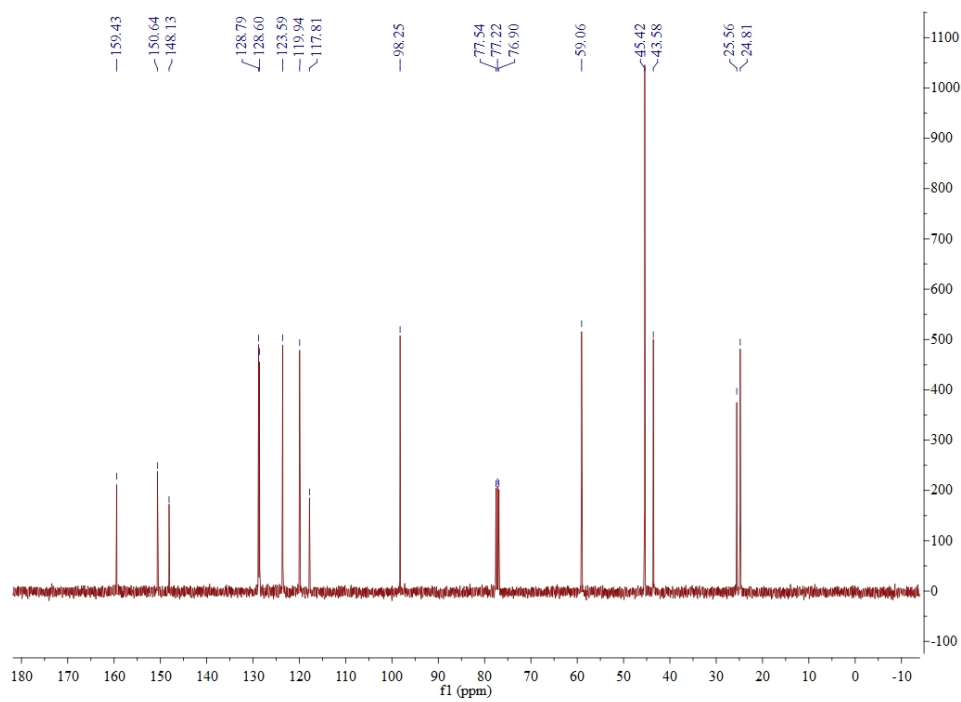


Figure S23. ^{13}C -NMR Spectrum of compound **3h**

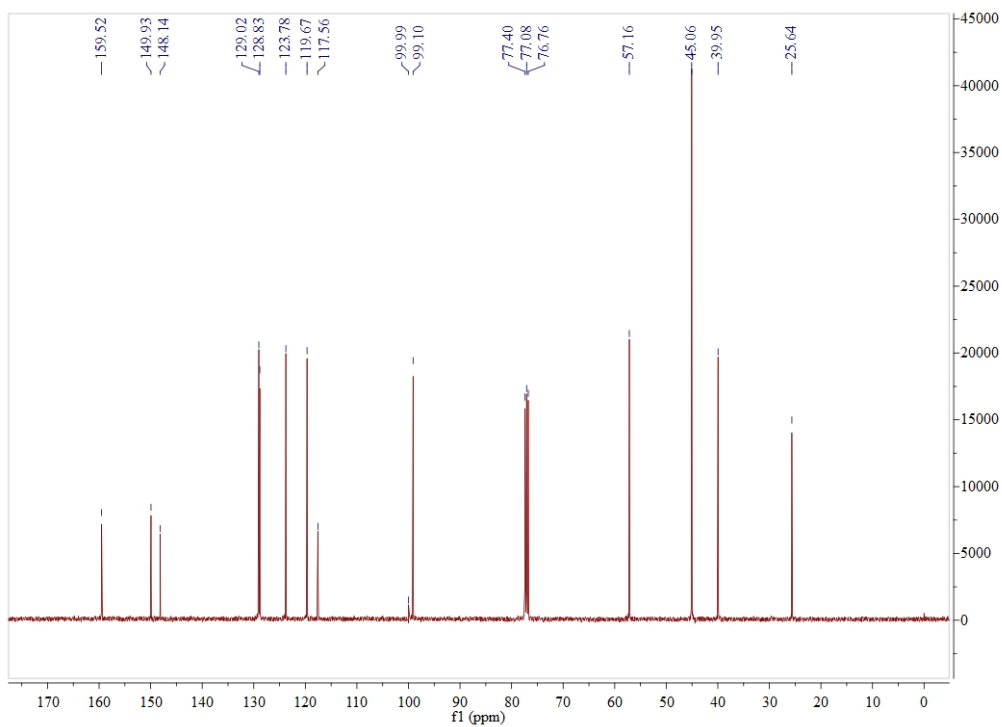
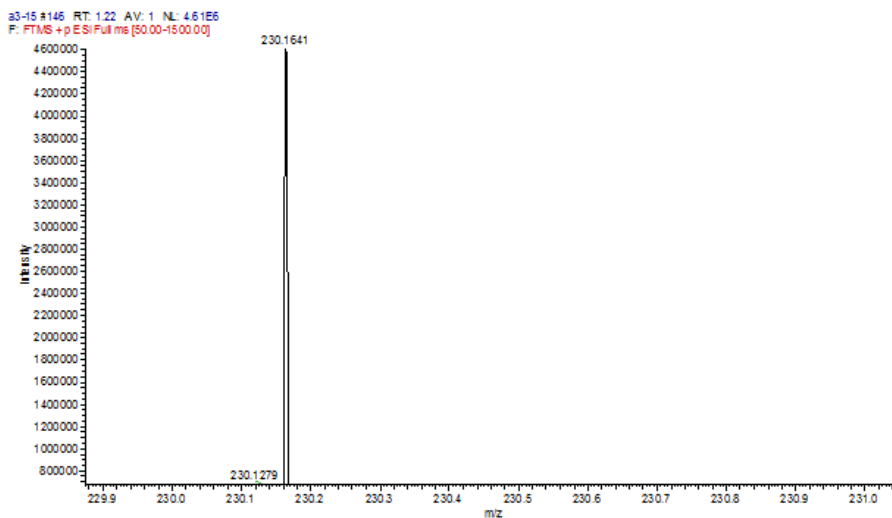


Figure S24. HRMS Spectrum of compound **3h**



Idx	Formula	RDB	Delta mmu
1	$\text{C}_{14}\text{H}_{20}\text{N}_3$	6.5	-1.094

Calculated 230.1652 Found 230.1641

Figure S25. ^1H -NMR Spectrum of compound **3i**

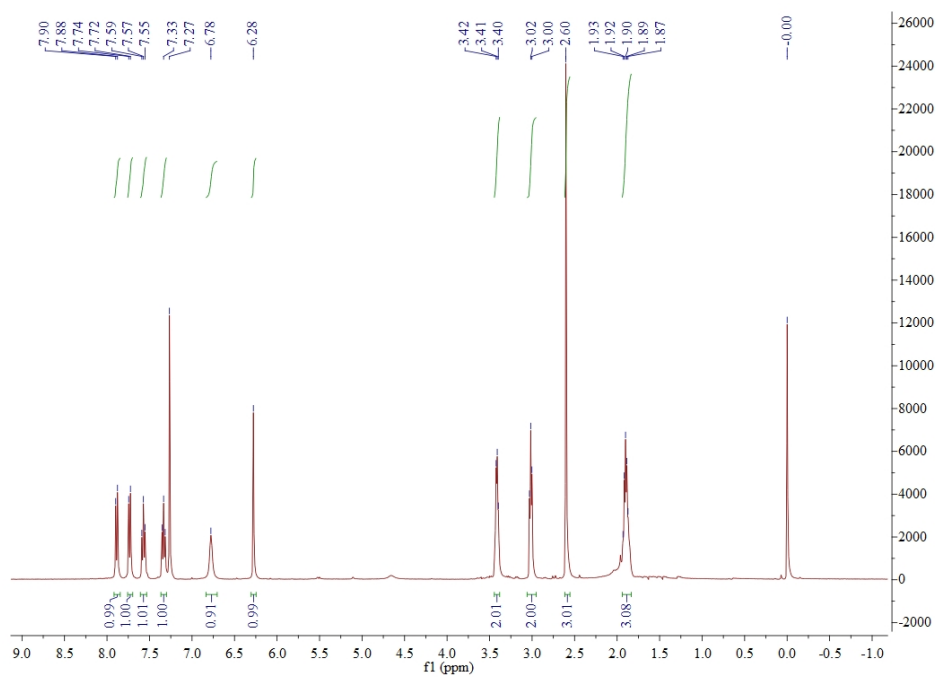


Figure S26. ^{13}C -NMR Spectrum of compound **3i**

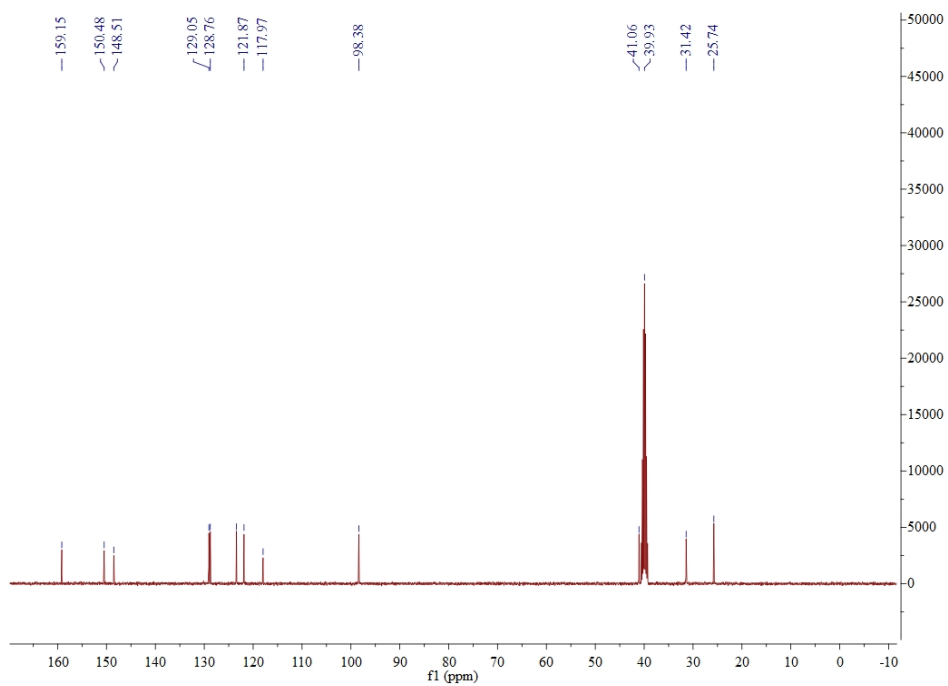
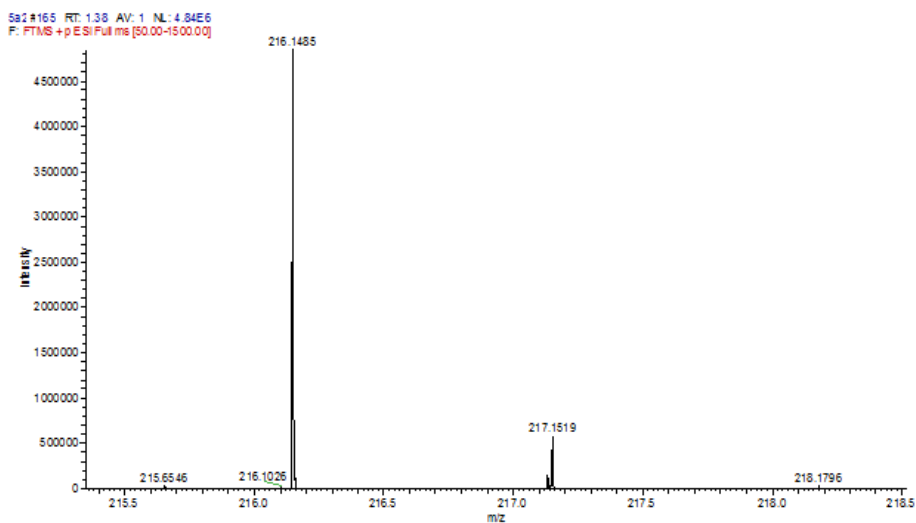


Figure S27. HRMS Spectrum of compound 3i



Idx	Formula	RDB	Delta mmu
1	C ₁₃ H ₁₈ N ₃	6.5	-1.044

Calculated 216.1495 Found 216.1485

Figure S28. ¹H-NMR Spectrum of compound 3j

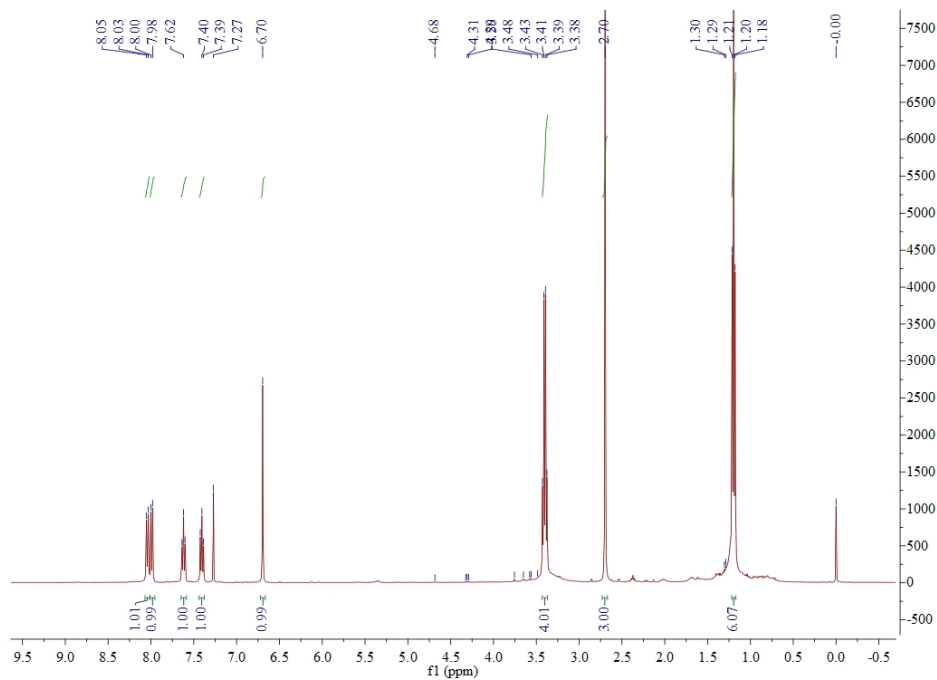


Figure S29. ¹³C-NMR Spectrum of compound 3j

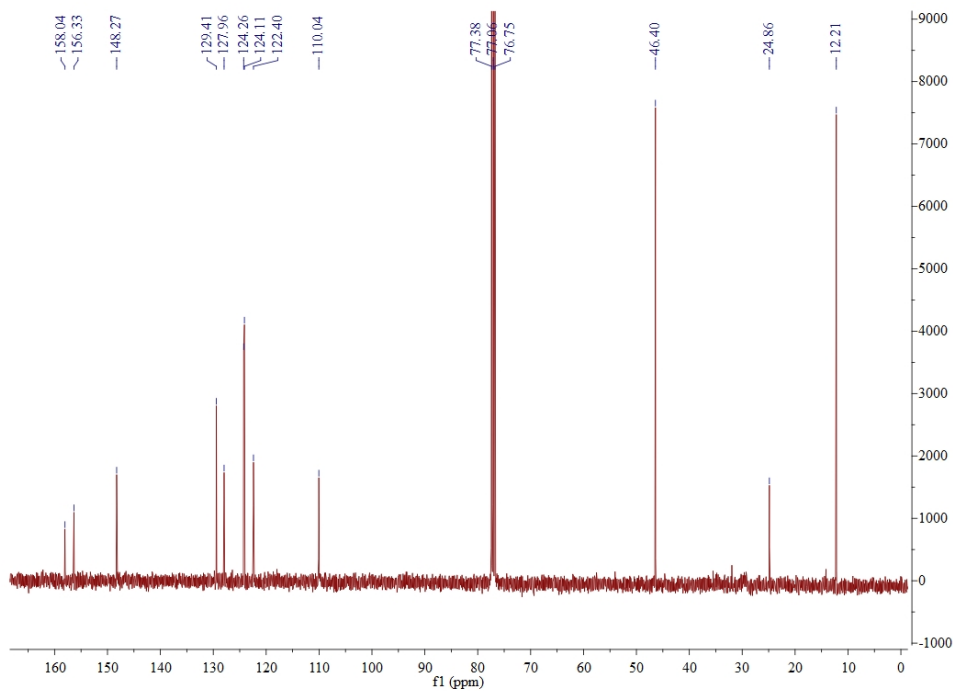
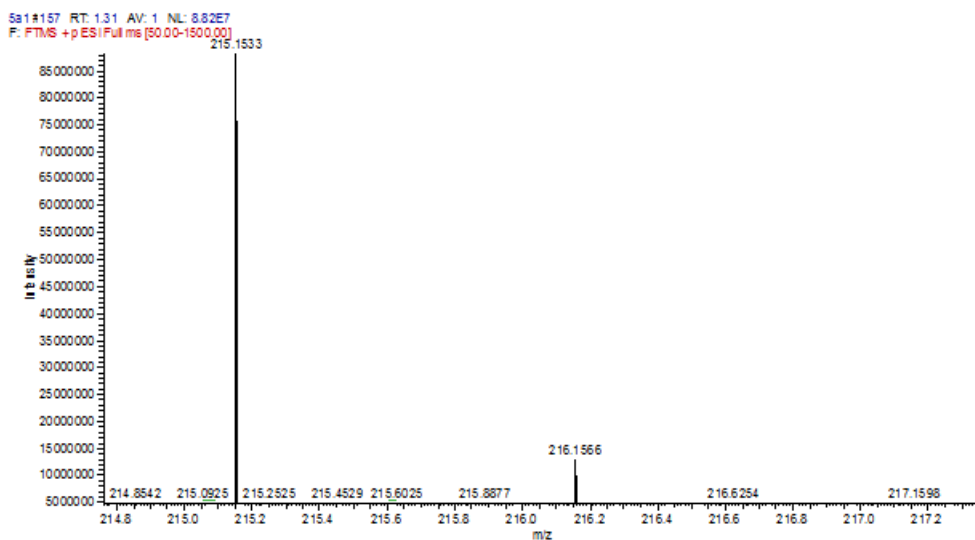


Figure S30. HRMS Spectrum of compound 3j



Idx	Formula	RDB	Delta mmu
1	C ₁₄ H ₁₉ N ₂	6.5	-1.005

Calculated 215.1543 Found 215.1533

Figure S31. $^1\text{H-NMR}$ Spectrum of compound **3k**

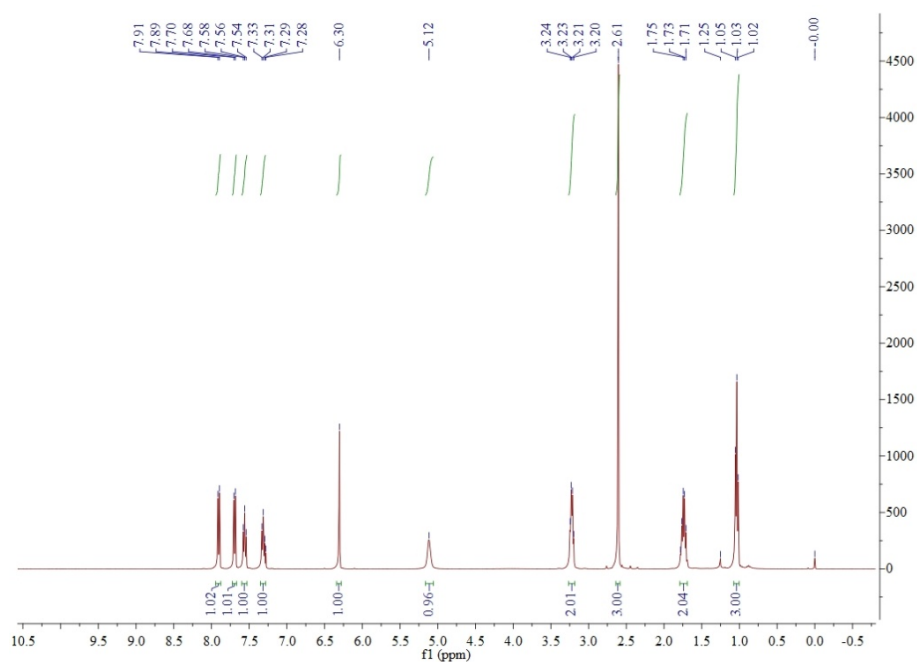


Figure S32. $^{13}\text{C-NMR}$ Spectrum of compound **3k**

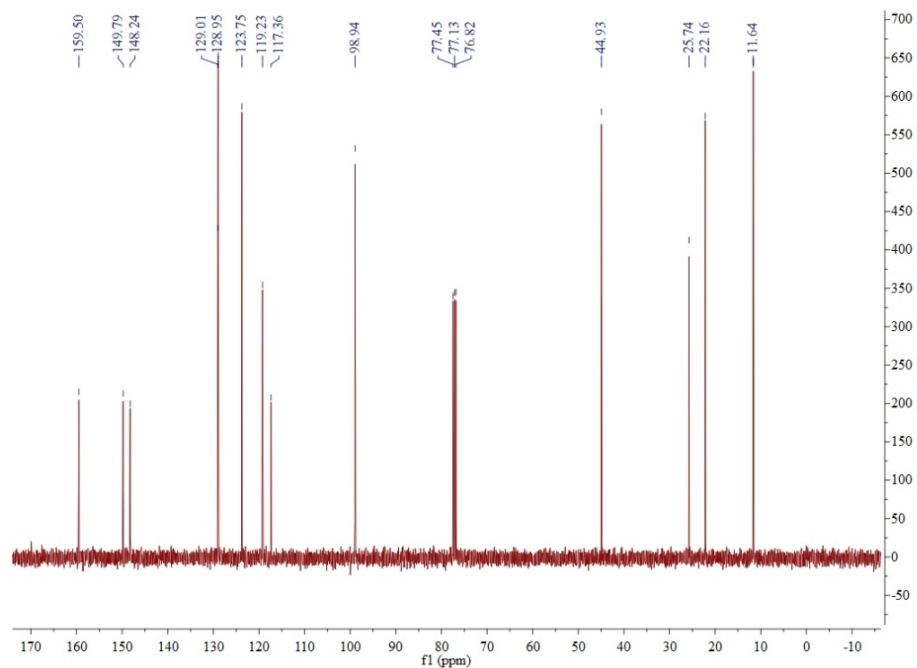


Figure S33. HRMS Spectrum of compound 3k

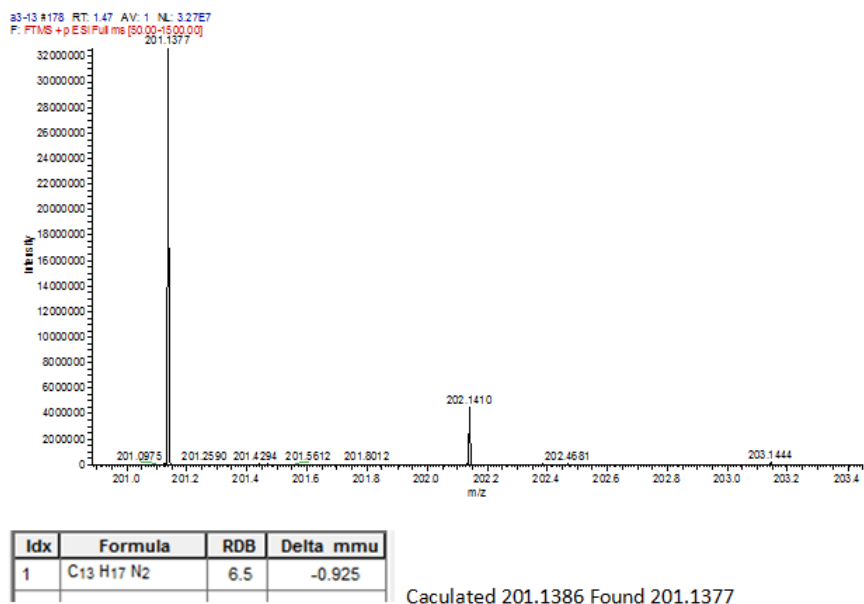


Figure S34. ¹H-NMR Spectrum of compound 3l

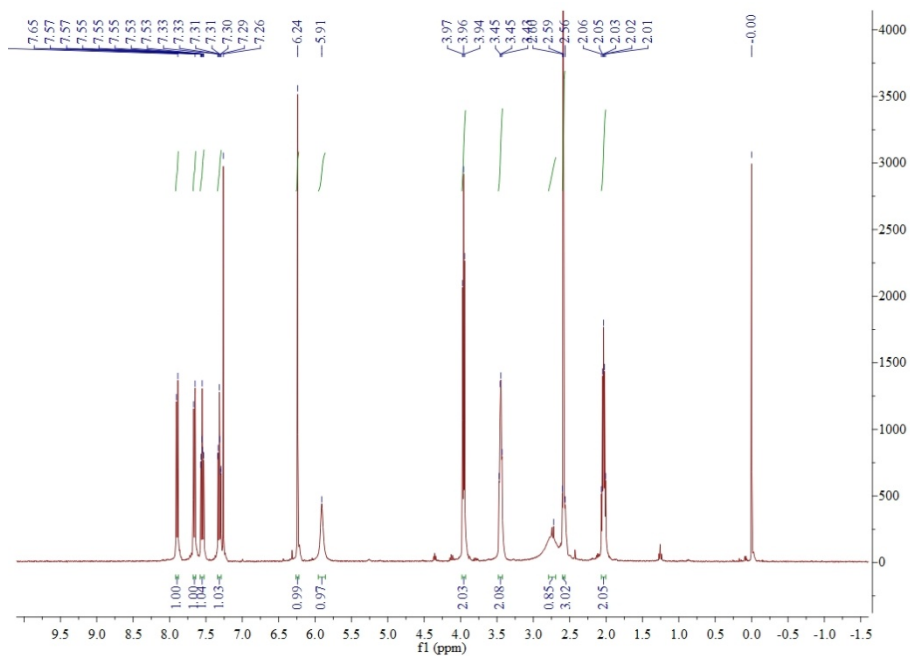


Figure S35. ^{13}C -NMR Spectrum of compound 31

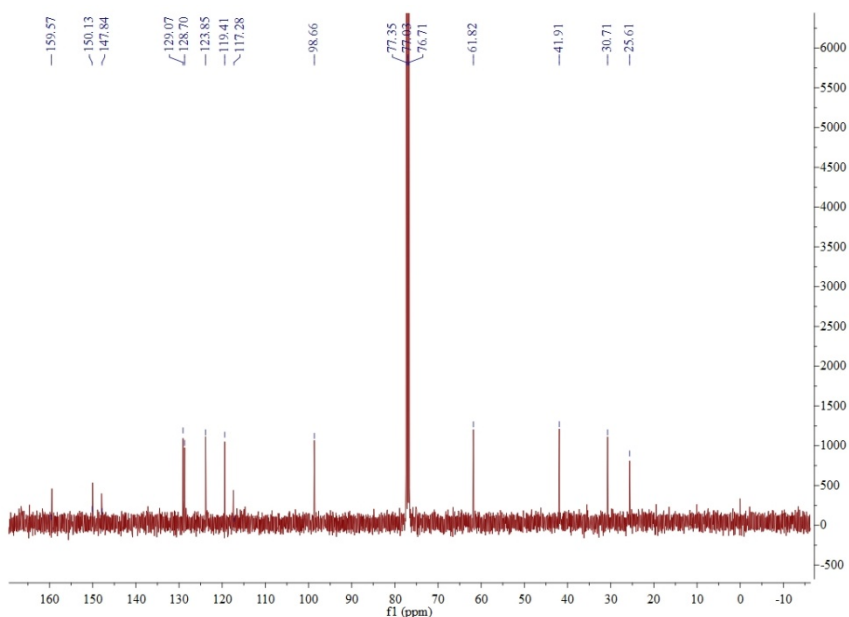
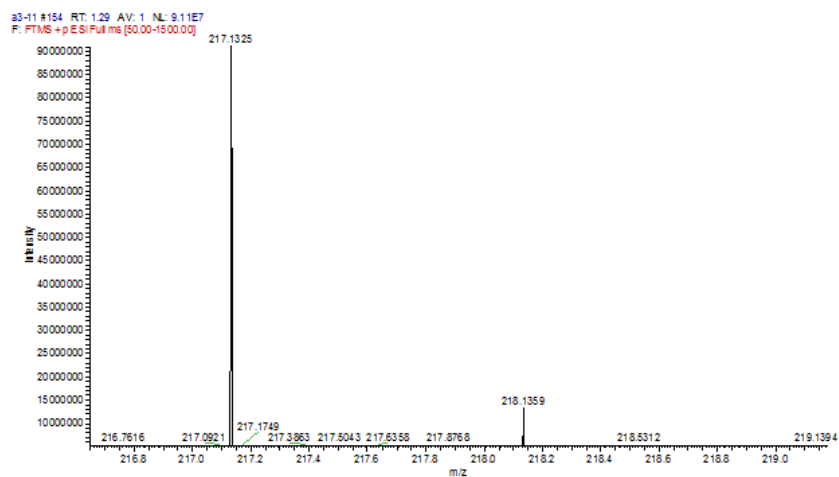


Figure S36. HRMS Spectrum of compound 31



Idx	Formula	RDB	Delta mmu
1	C ₁₃ H ₁₇ O ₂ N ₂	6.5	-1.000

Calculated 217.1335 Found 217.1325

Figure S37. $^1\text{H-NMR}$ Spectrum of compound **3m**

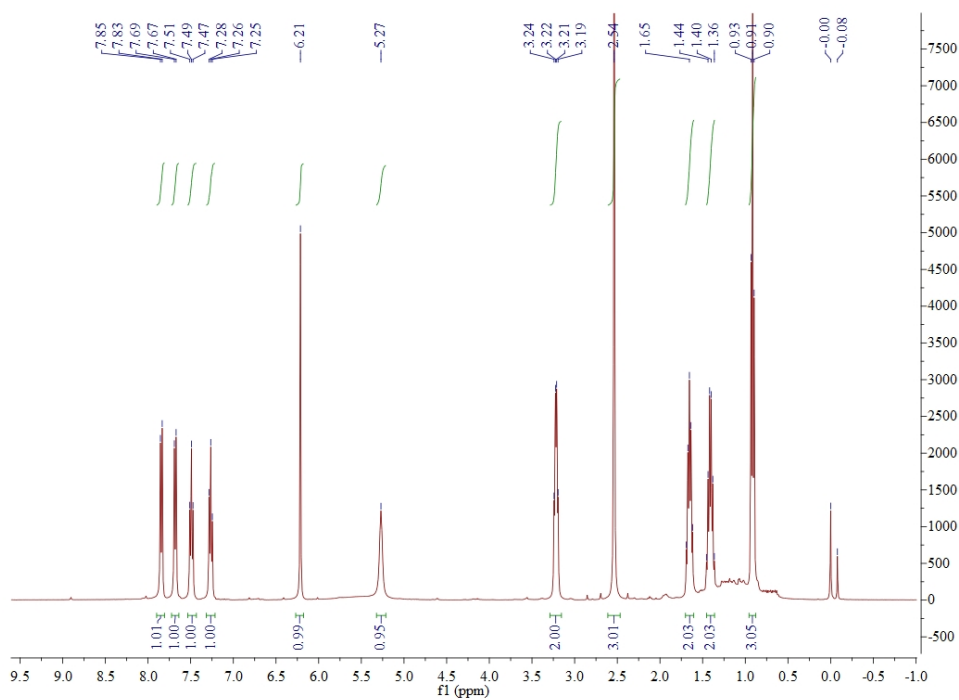


Figure S38. $^{13}\text{C-NMR}$ Spectrum of compound **3m**

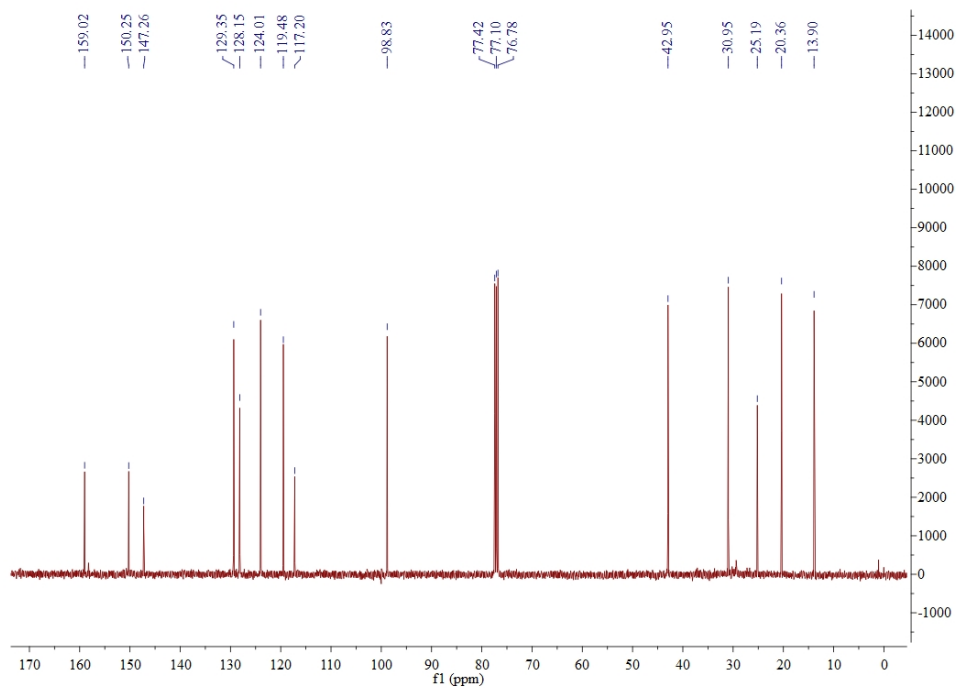


Figure S39. HRMS Spectrum of compound **3m**

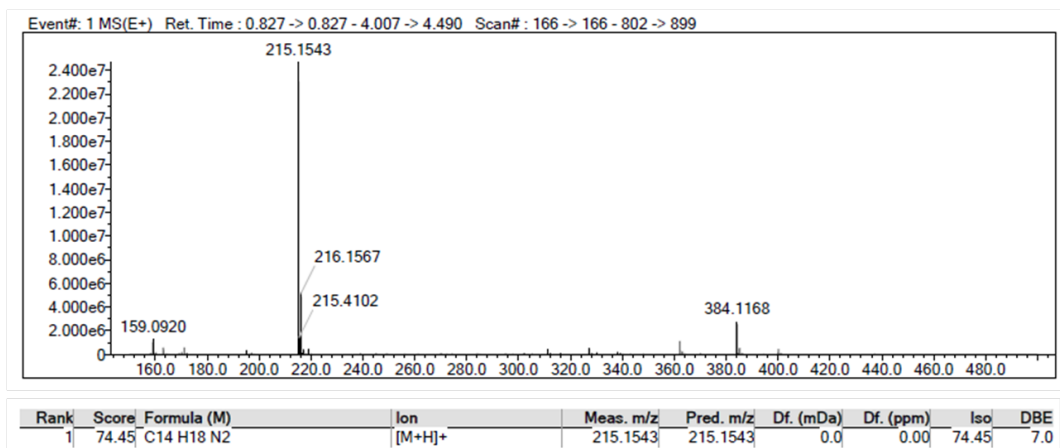


Figure S40. ¹H-NMR Spectrum of compound **3n**

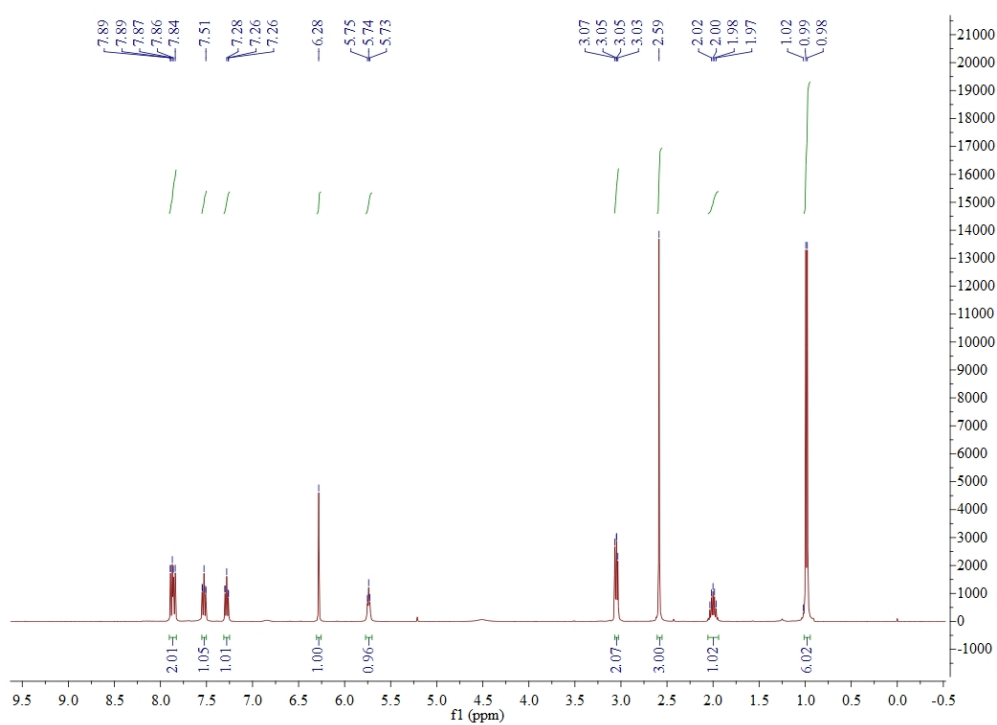


Figure S41. ^{13}C -NMR Spectrum of compound **3n**

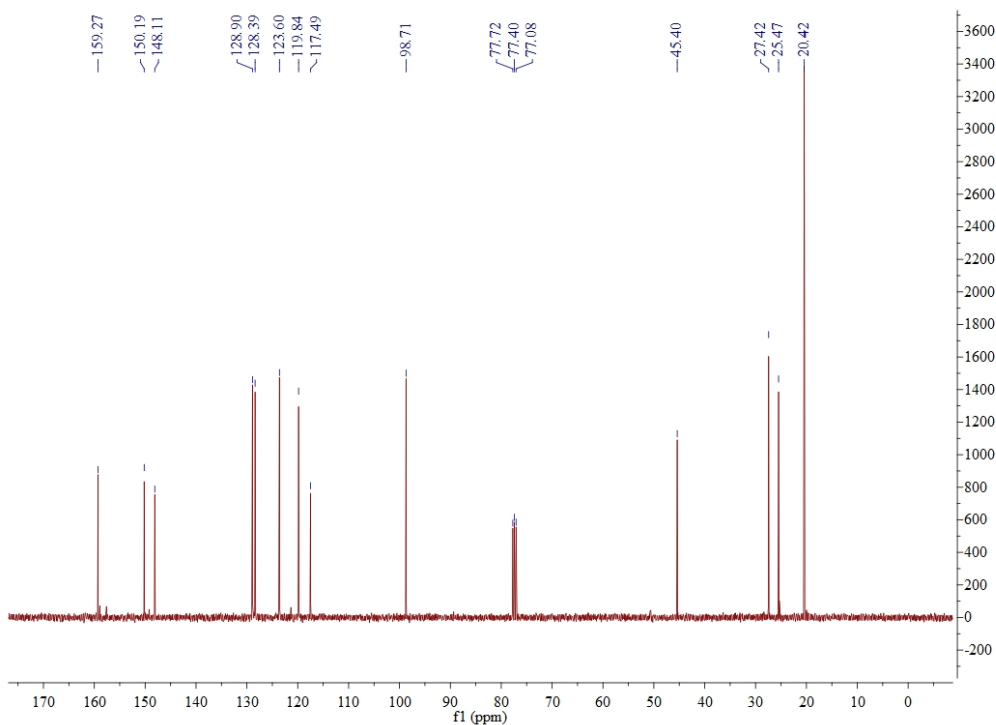


Figure S42. HRMS Spectrum of compound **3n**

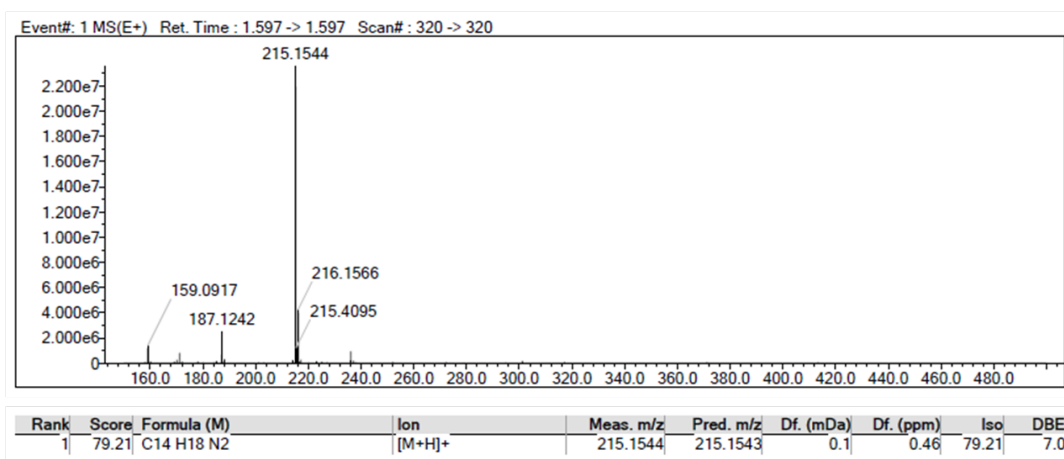


Figure S43. $^1\text{H-NMR}$ Spectrum of compound **3o**

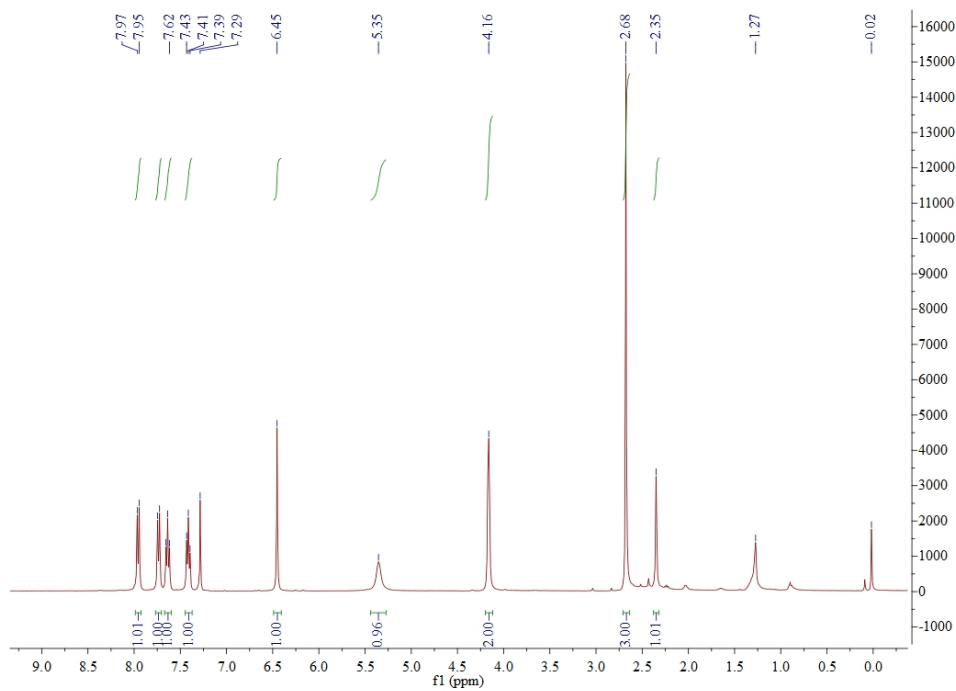


Figure S44. $^{13}\text{C-NMR}$ Spectrum of compound **3o**

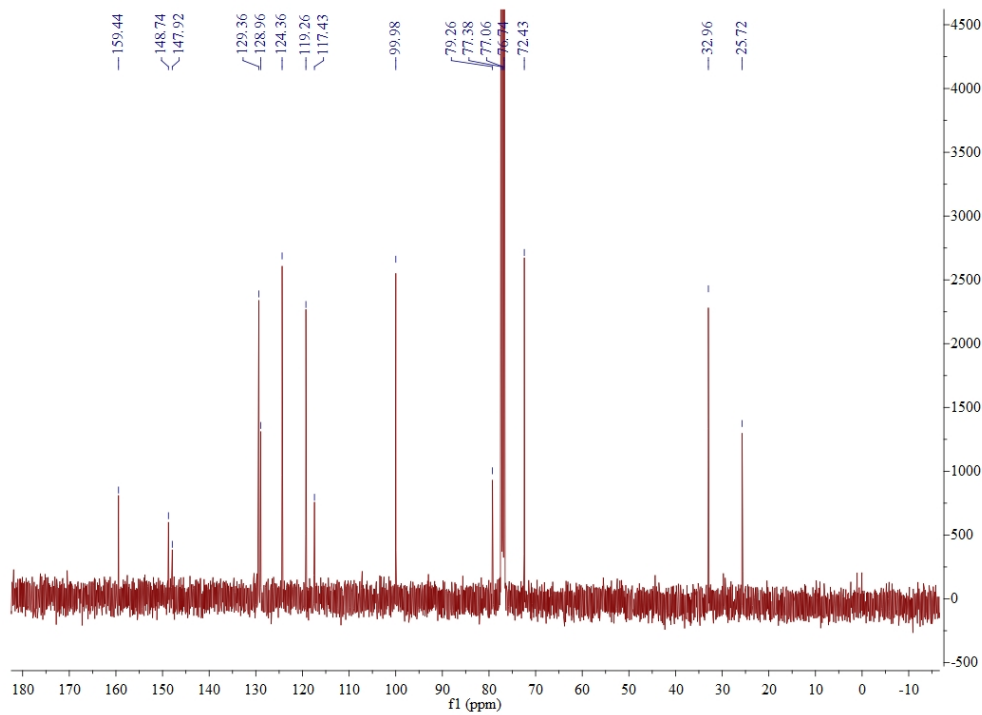


Figure S45. HRMS Spectrum of compound **30**

