

Supporting Information

Synthesis and properties of 1-vinyl azulenes with oxazolonc ring- potential ligands for metal ion detectors

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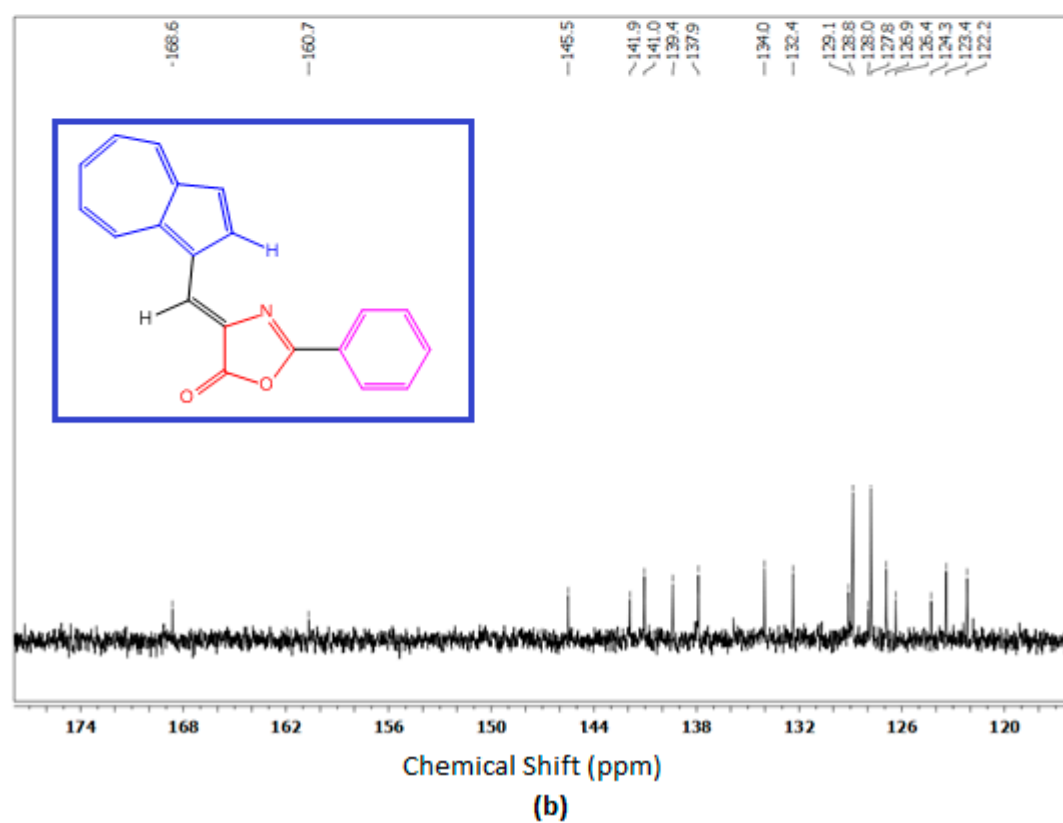
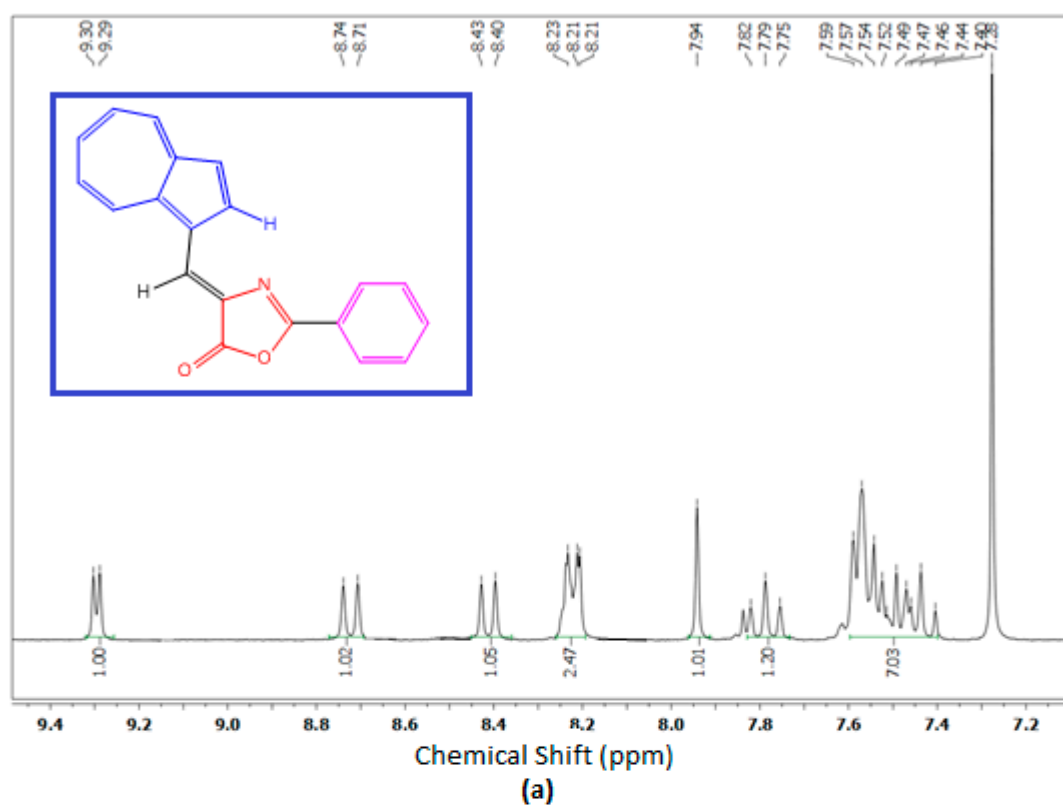
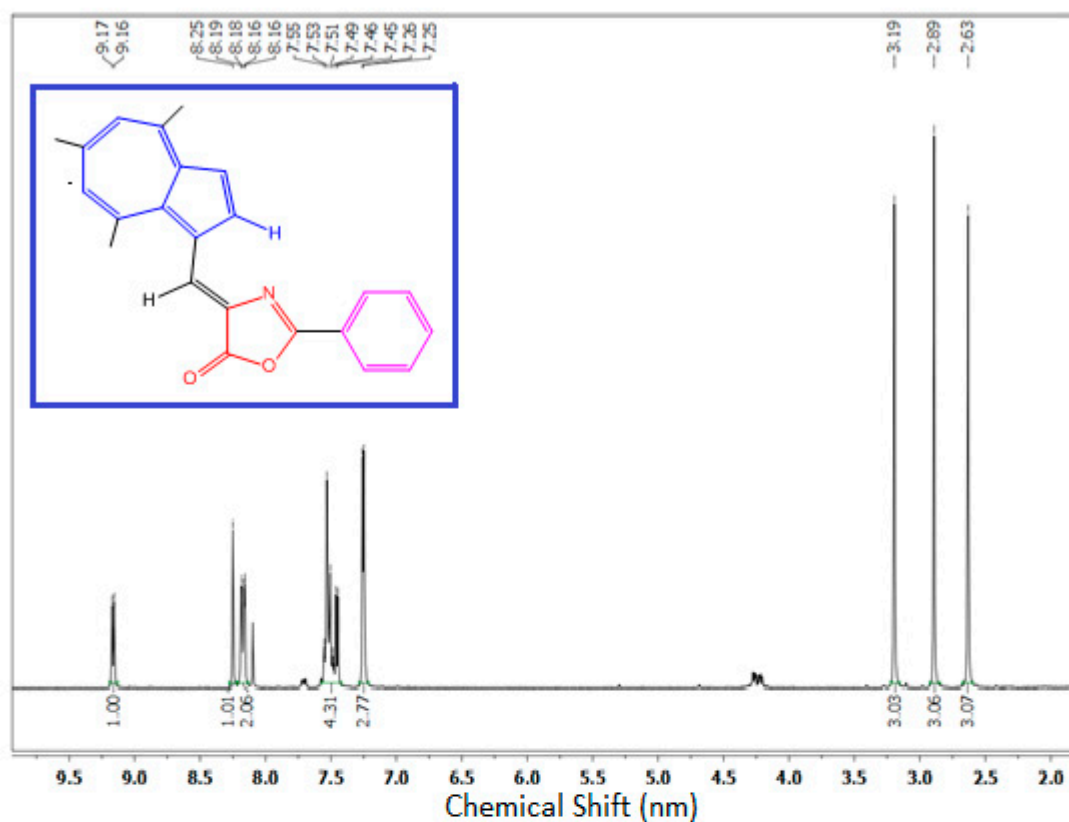
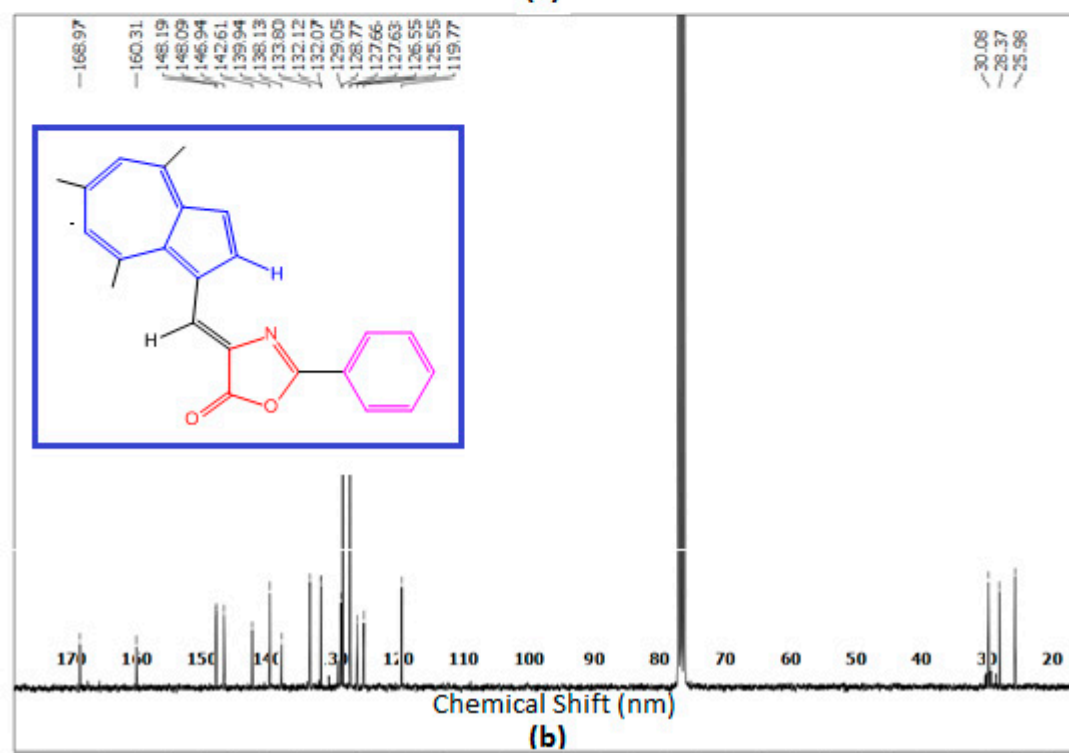


Figure S1. (a) ^1H NMR, and (b) ^{13}C NMR spectra of 4-(azulen-1-ylmethylene)-2-phenyloxazol-5(4H)-one **6a**

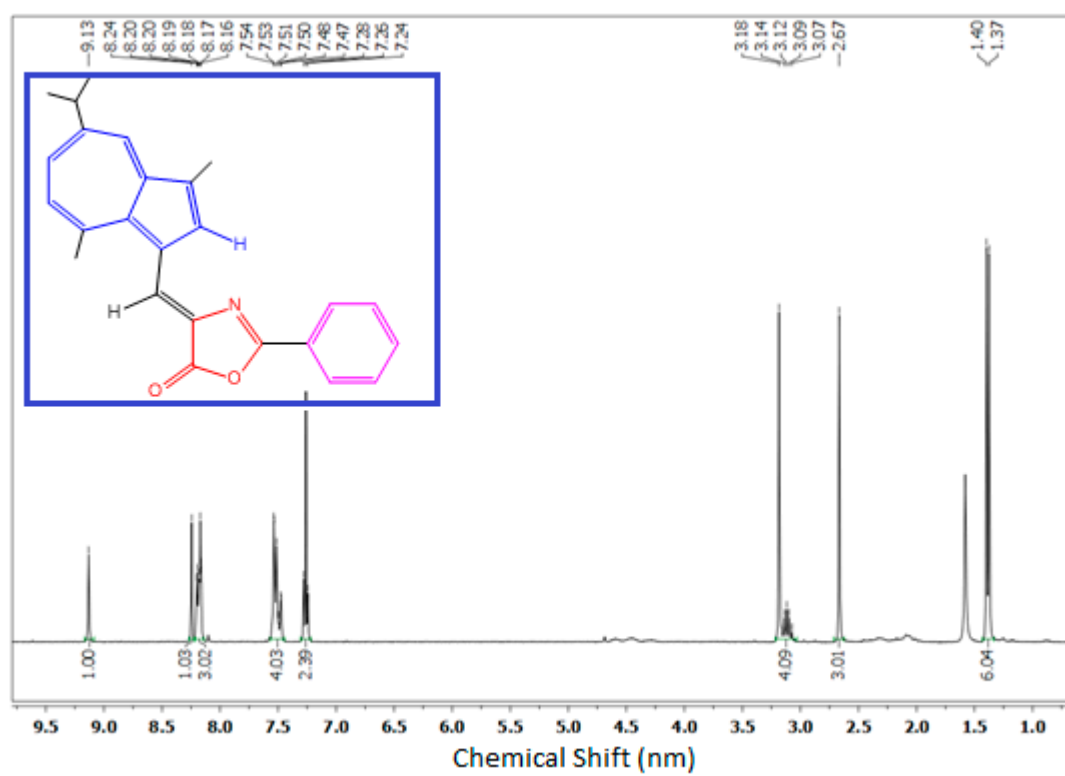


(a)

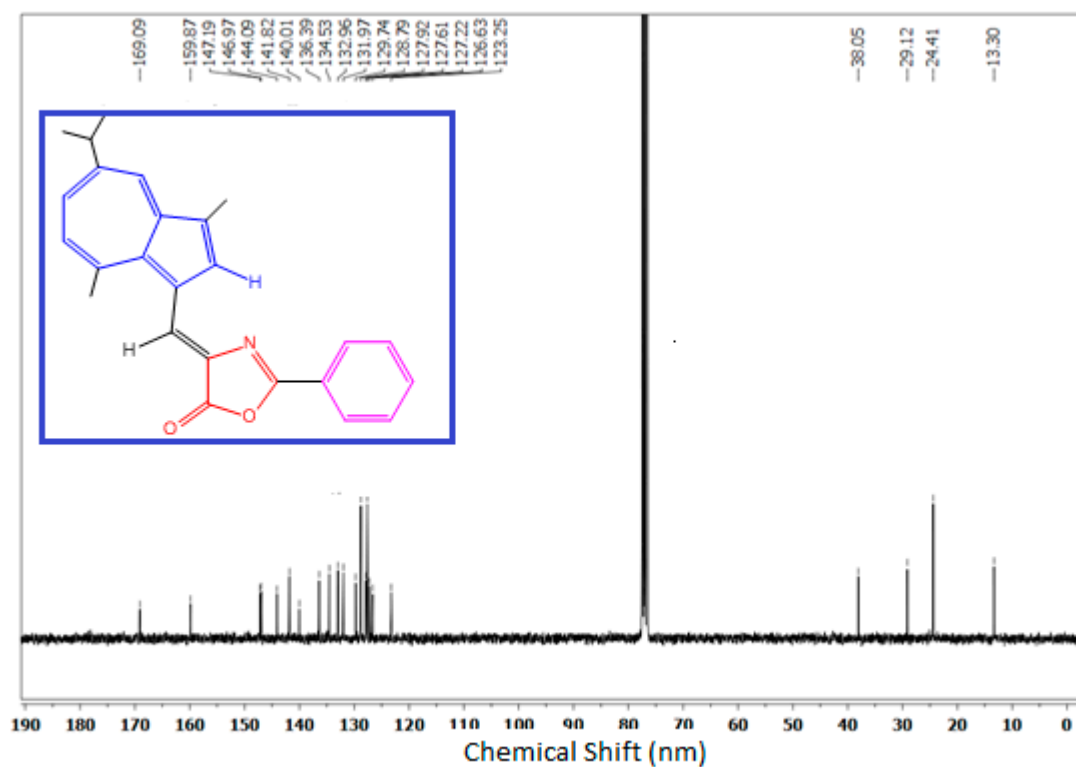


(b)

Figure S2. (a) ¹H NMR, and (b) ¹³C NMR spectra of 2-phenyl-4-((4,6,8-trimethylazulen-1-yl)methylene)oxazol-5(4H)-one **6b**



(a)



(b)

Figure S3. (a) ¹H NMR, and (b) ¹³C NMR spectra of 4-((5-isopropyl-3,8-dimethylazulen-1-yl)methylene)-2-phenyloxazol-5(4H)-one **6c**

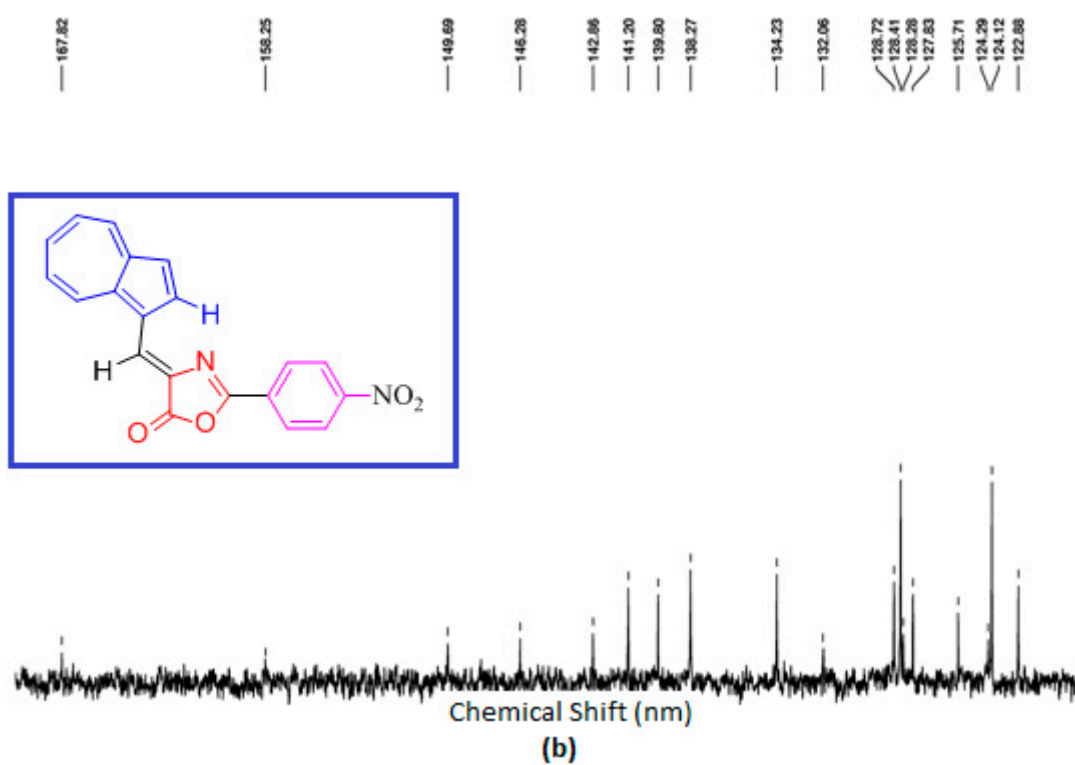
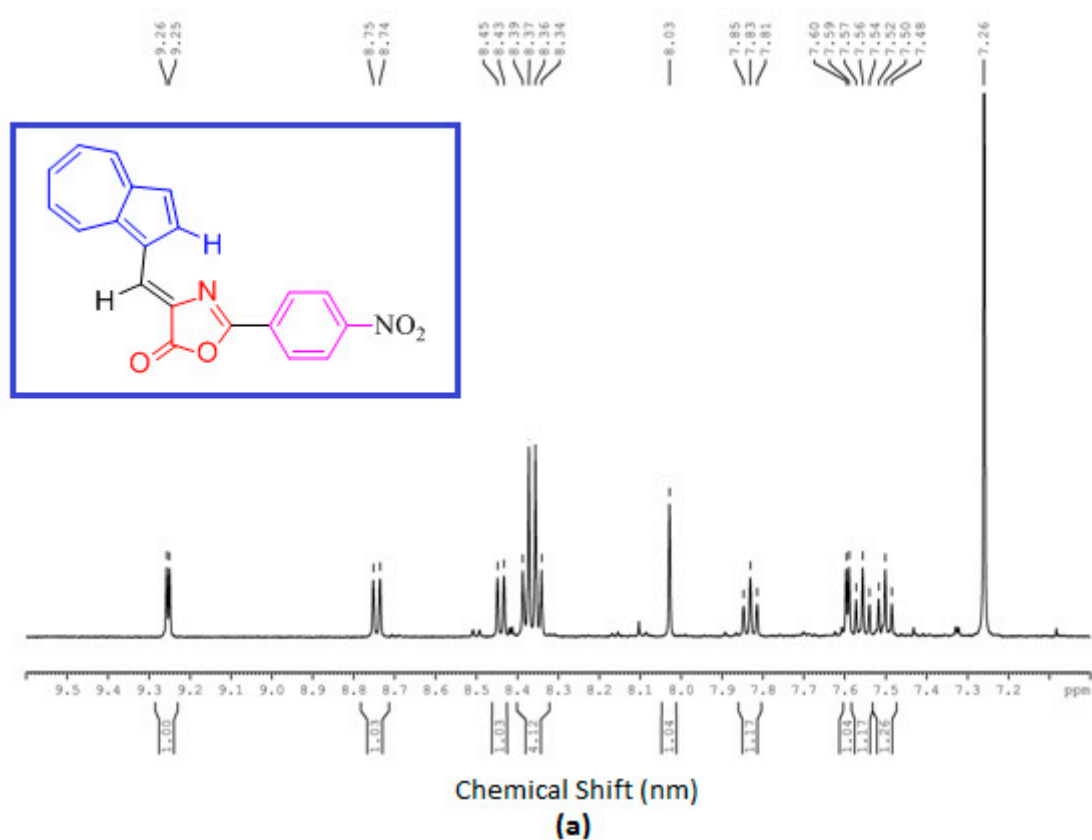


Figure S4. (a) ¹H NMR, and (b) ¹³C NMR spectra of 4-(azulen-1-ylmethylene)-2-(4-nitrophenyl)oxazol-5(4H)-one 6d

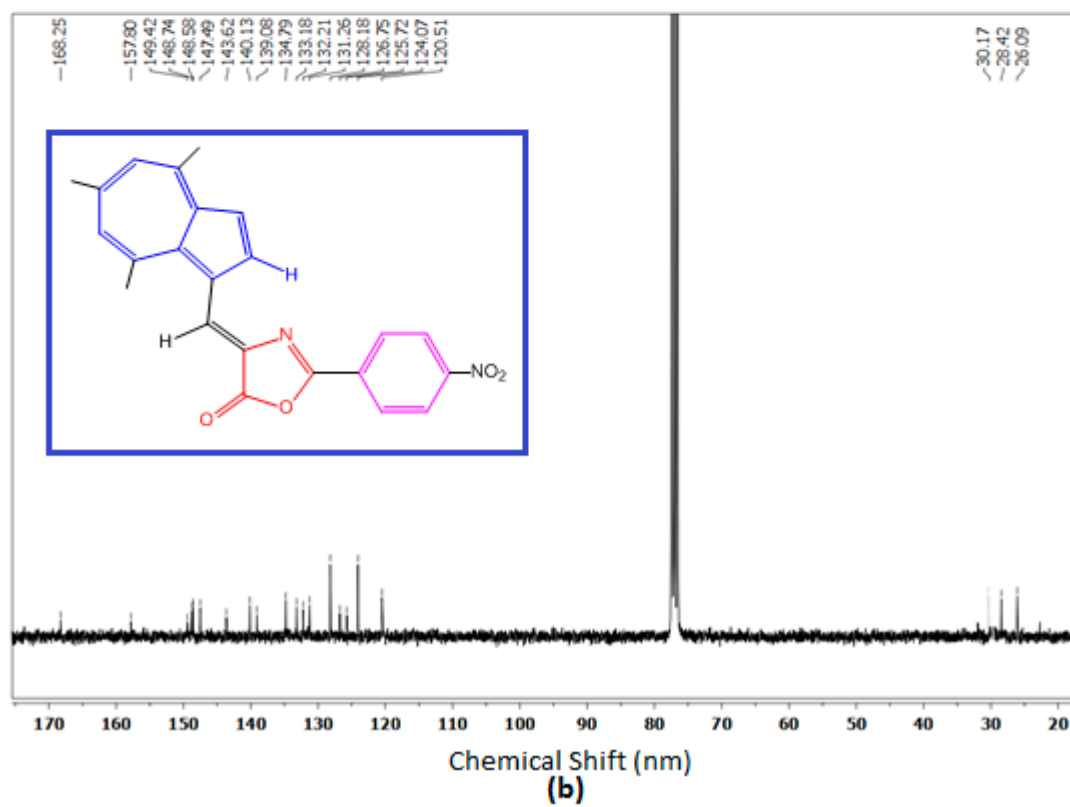
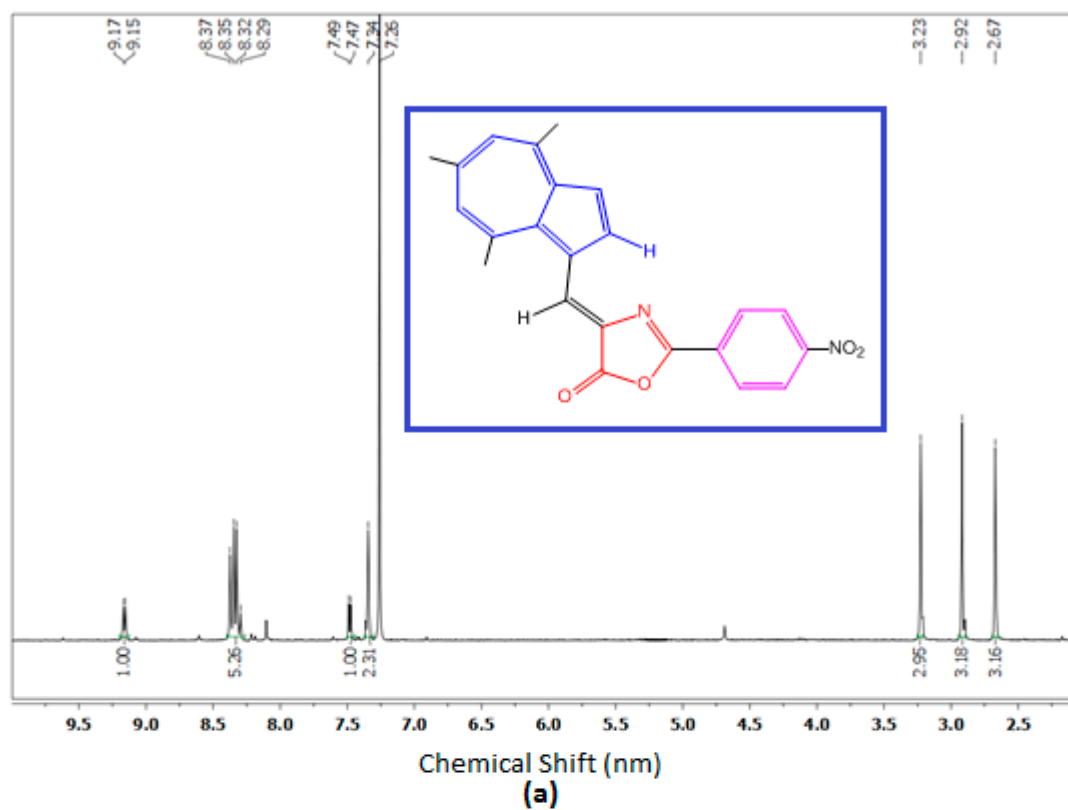
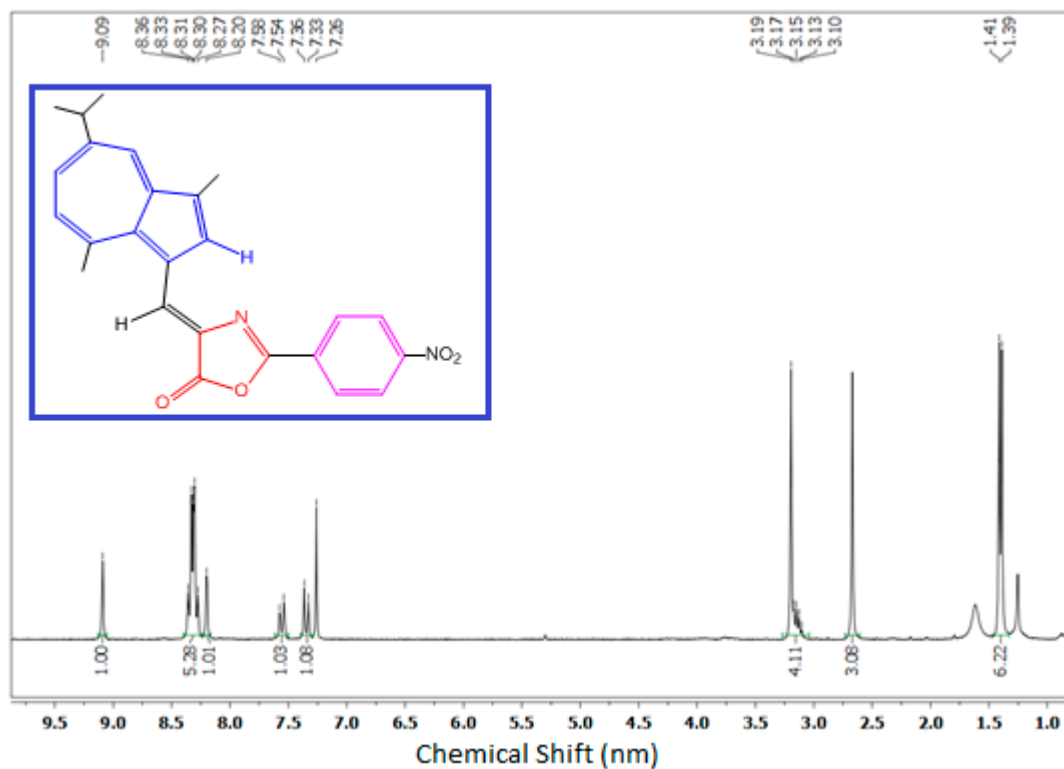
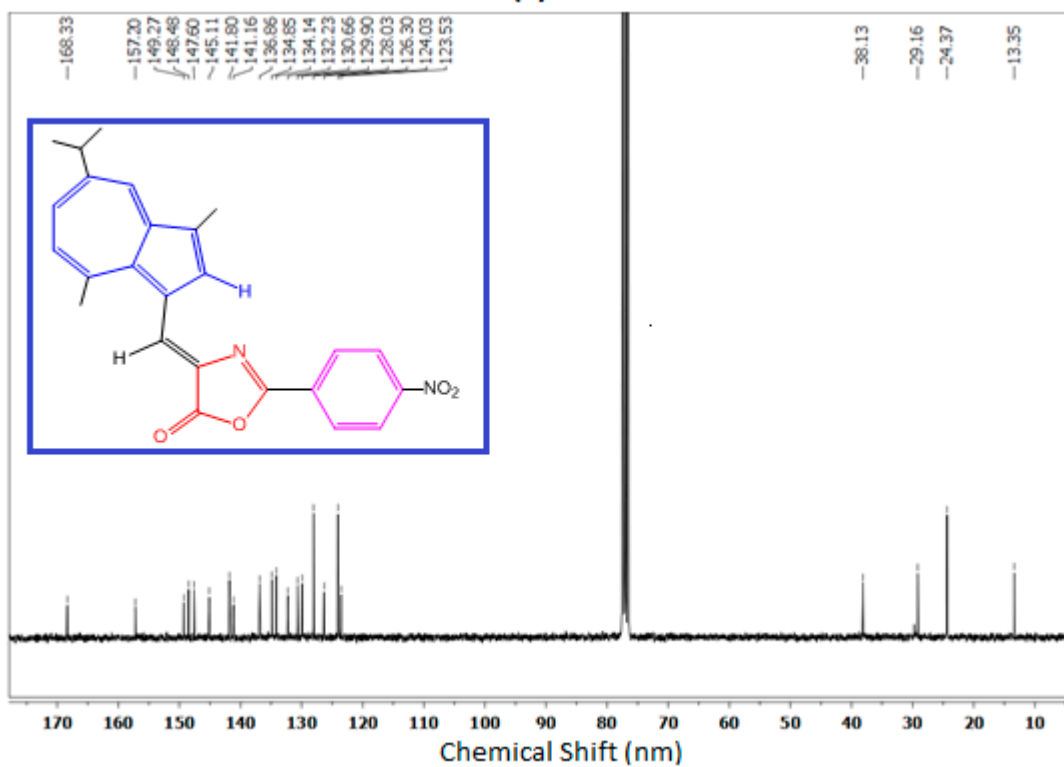


Figure S5. (a) ^1H NMR, and (b) ^{13}C NMR spectra of 2-(4-nitrophenyl)-4-((4,6,8-trimethylazulen-1-yl)methylene)oxazol-5(4H)-one **6e**



(a)



(b)

Figure S6. (a) ¹H NMR, and (b) ¹³C NMR spectra of 4-((5-isopropyl-3,8-dimethylazulen-1-yl)methylene)-2-(4-nitrophenyl)oxazol-5(4H)-one **6f**