

Novel synthesis of 1,2-diaza-1,3-dienes with potential biological activity from cinnamic acids and diazonium salts of anilines

Veronica Vida*^a, Martina Minisini^b, Mario Mardirossian^c, Claudio Brancolini^b, Marco Scocchi^c, Cristina Forzato^a and Federico Berti*^a.

Electronic supplementary materials

Mono and bidimensional NMR spectra in DMSO-d₆ and mass spectra

Diazadiene 3a

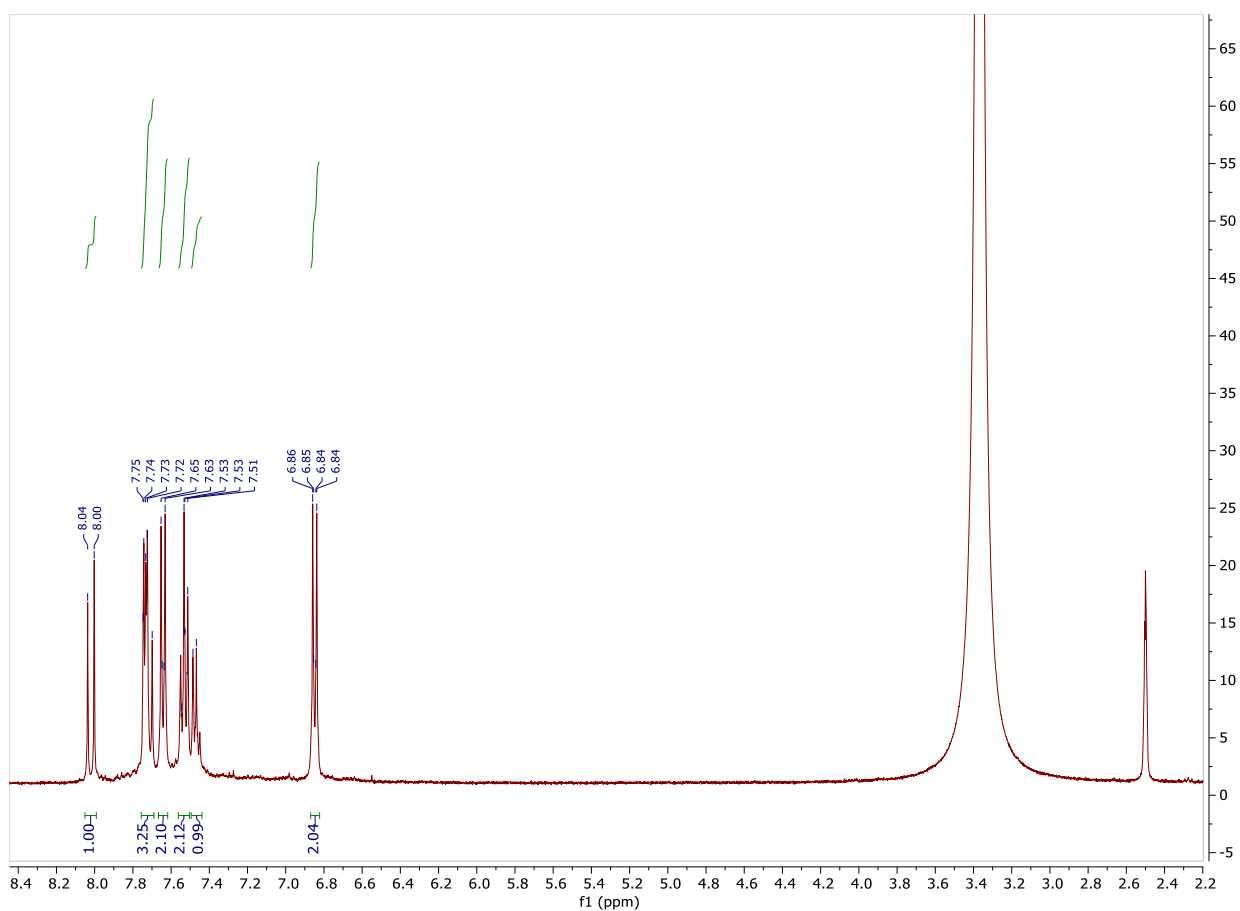


Figure S1 – ¹H-NMR spectrum of 3a

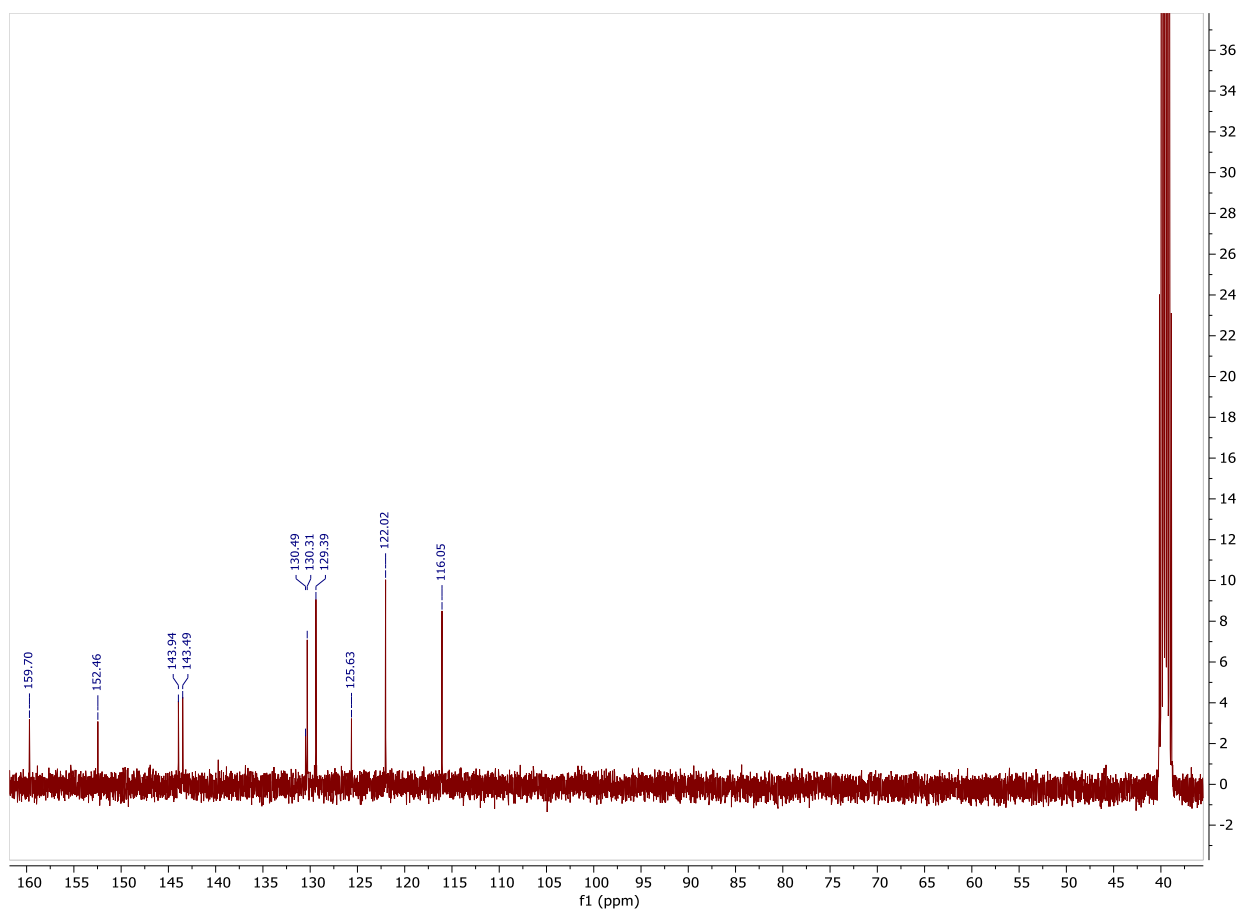


Figure S2 – ^{13}C -NMR spectrum of **3a**

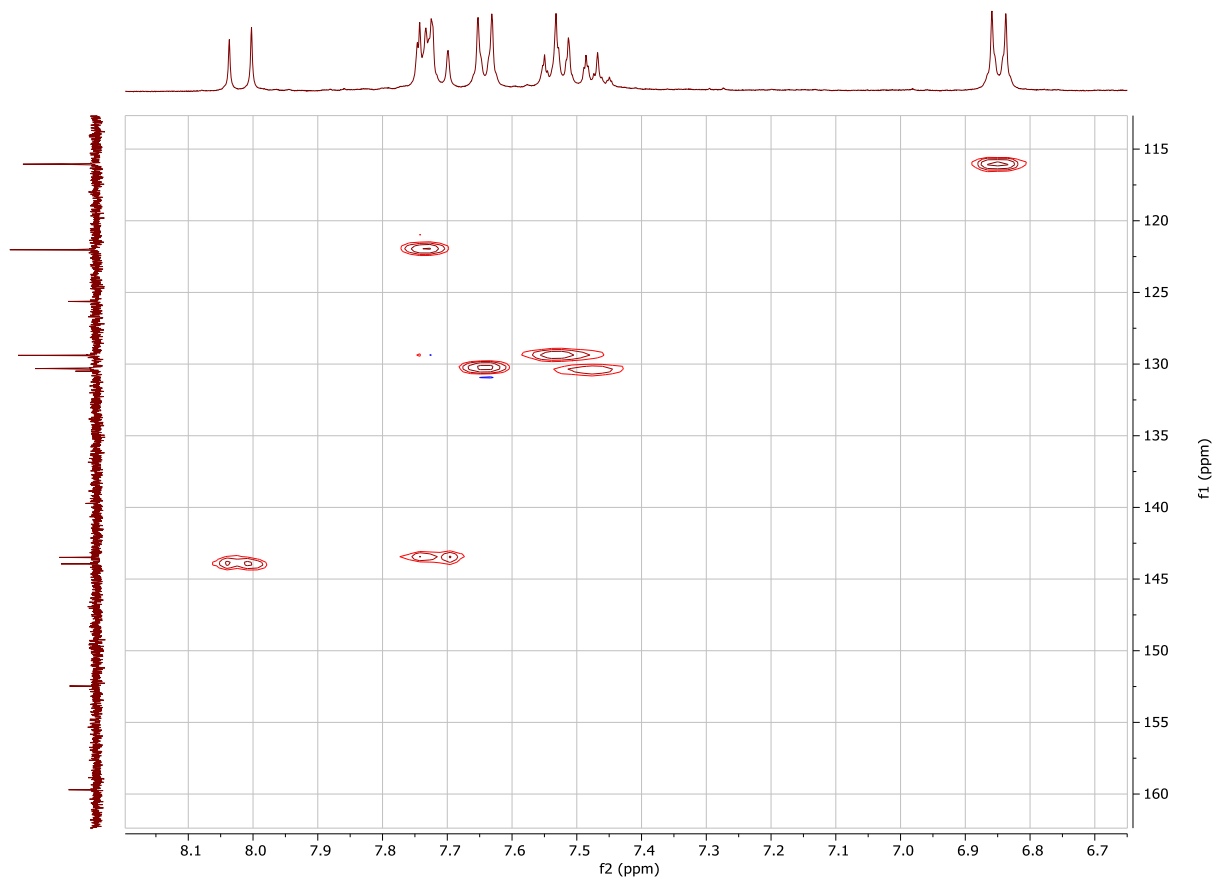


Figure S3 – ^1H - ^{13}C HSQC NMR spectrum of **3a**

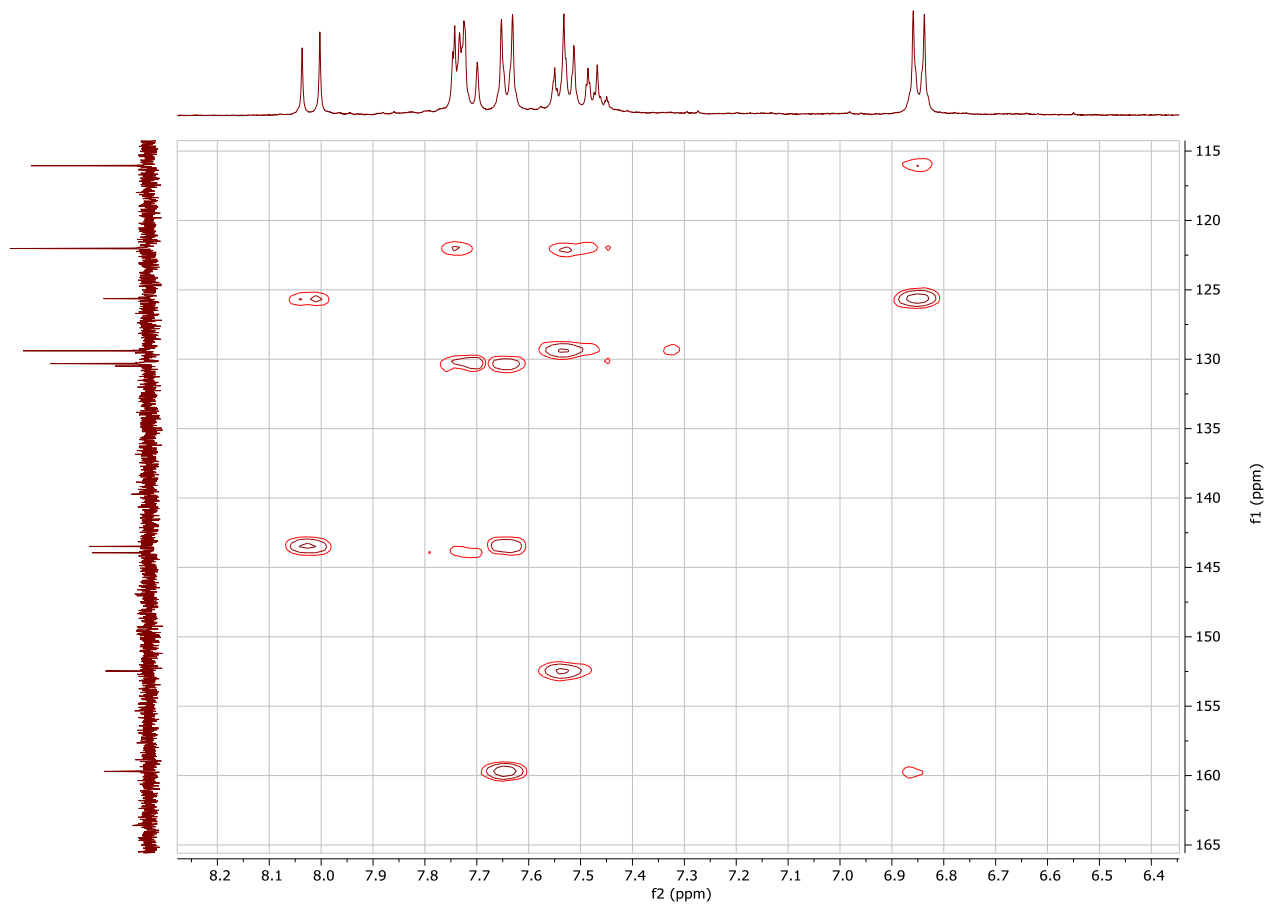


Figure S4 – ^1H - ^{13}C HMBC NMR spectrum of **3a**

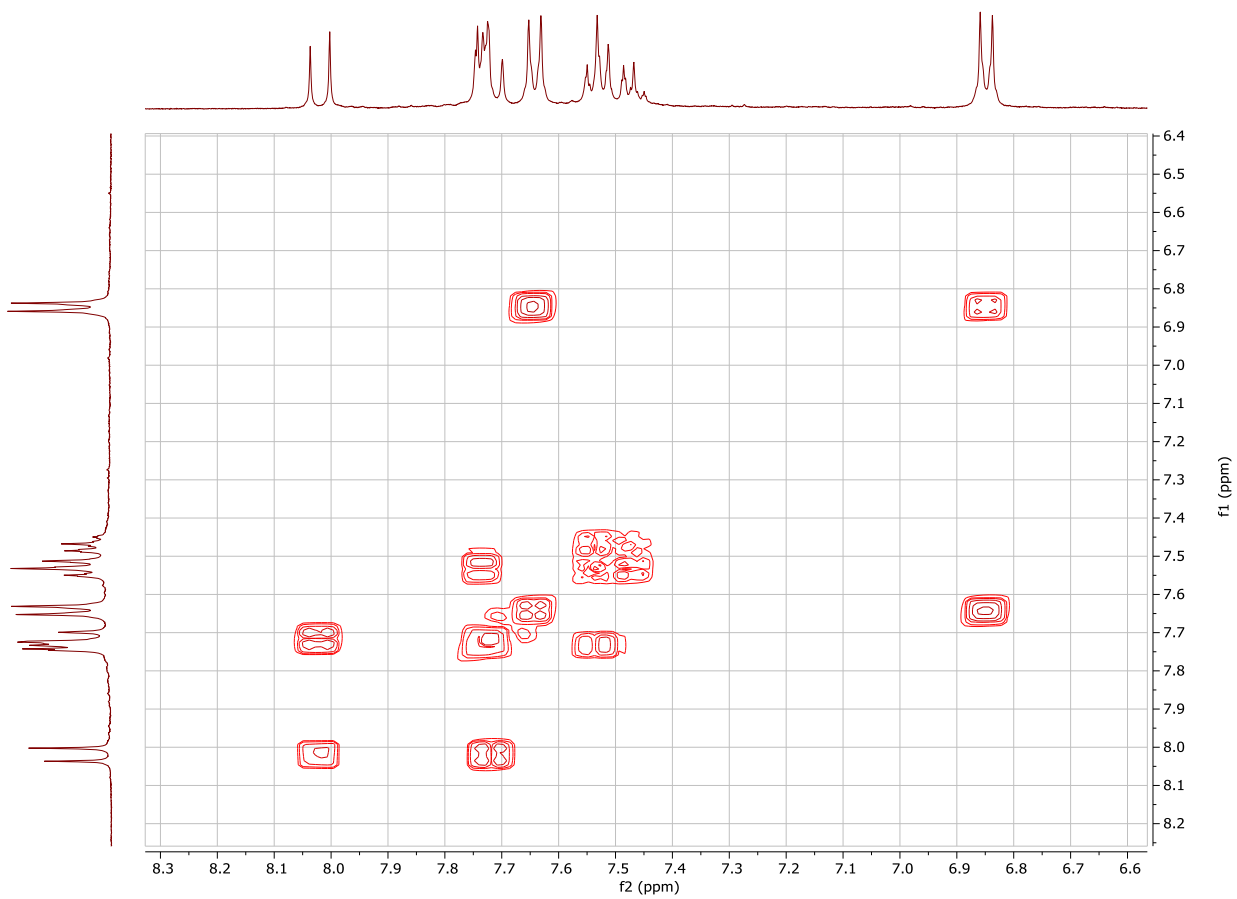


Figure S5 – ¹H-¹H COSY NMR spectrum of **3a**

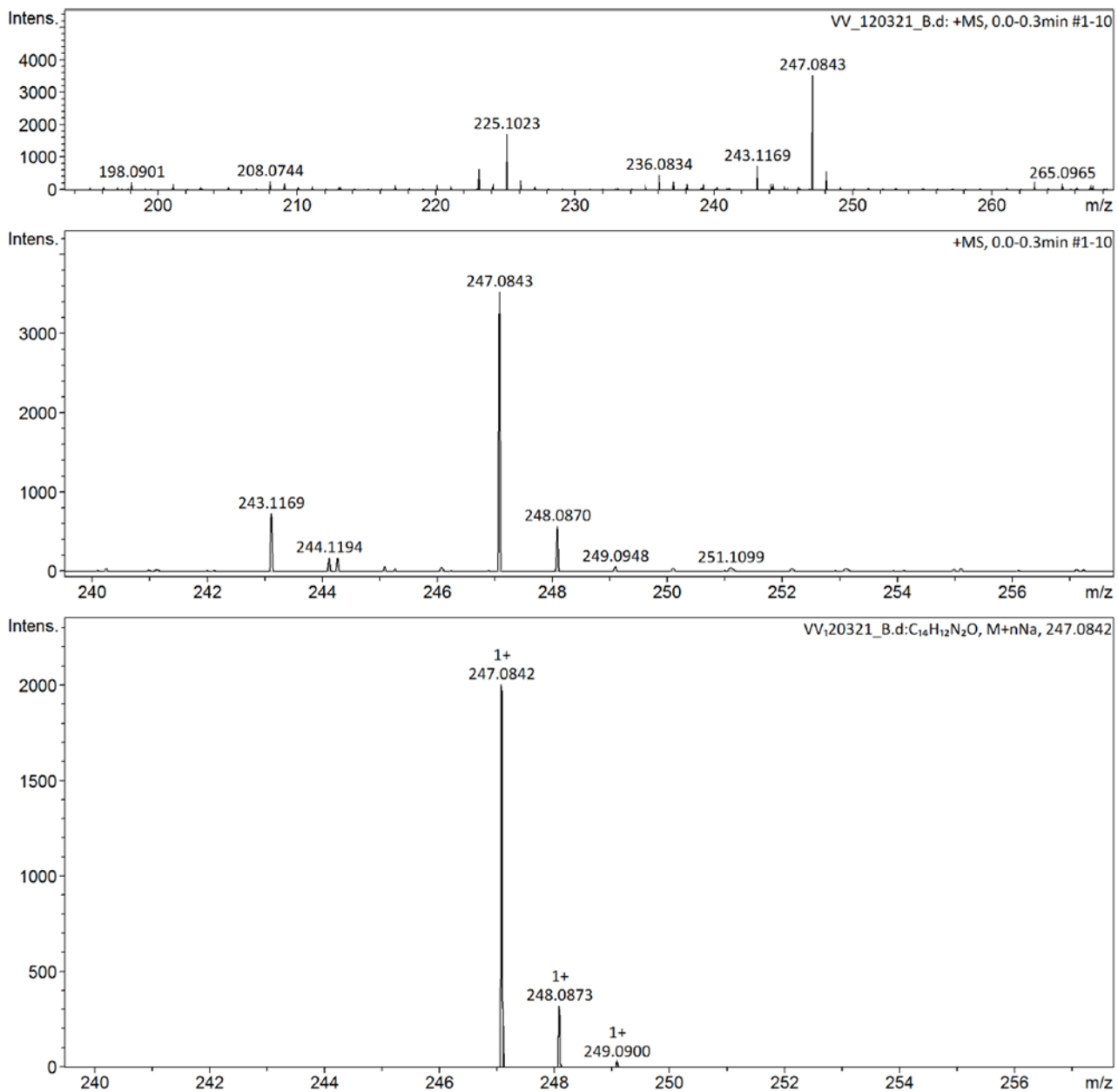


Figure S6 – Accurate mass spectrum of **3a**

Diazadiene 5a

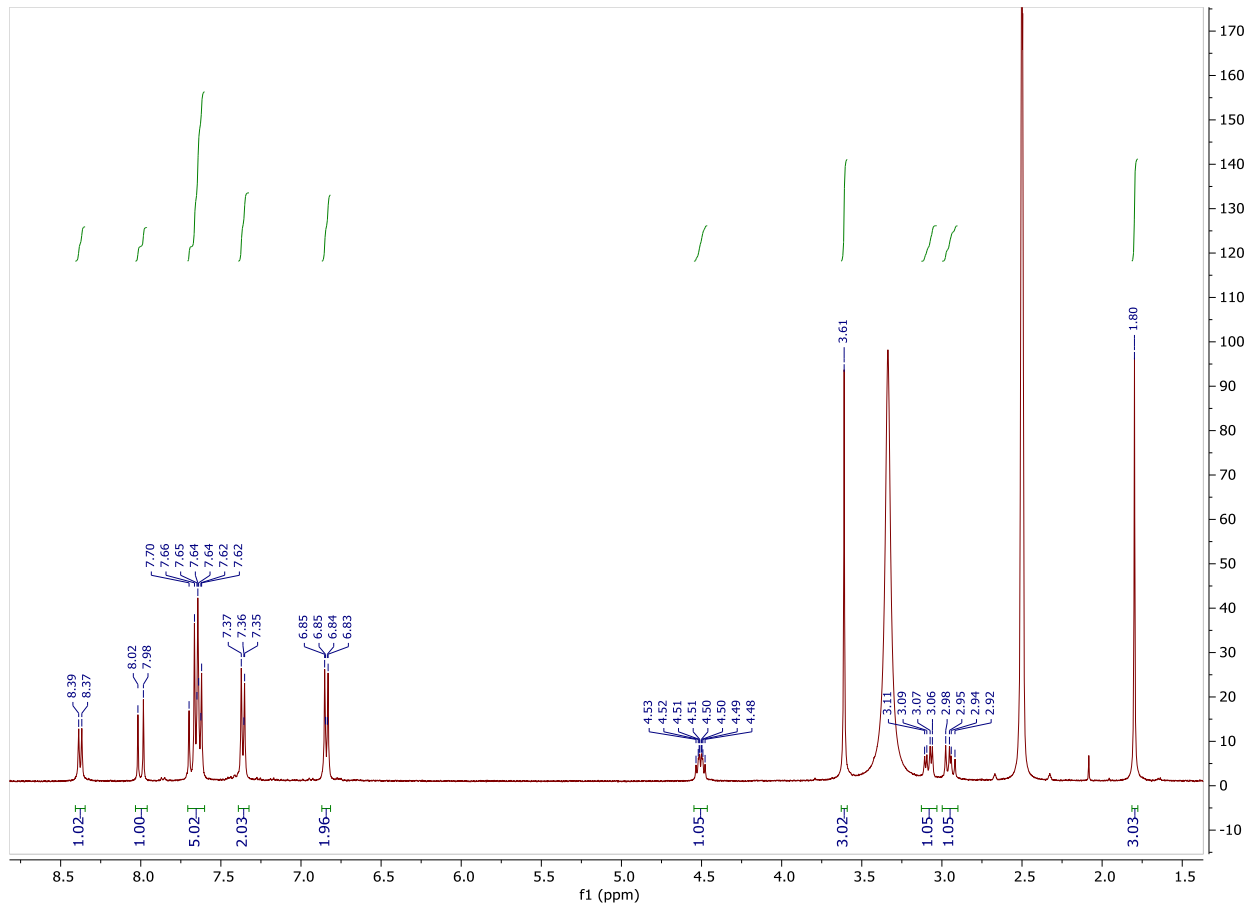


Figure S7 – ^1H -NMR spectrum of 5a

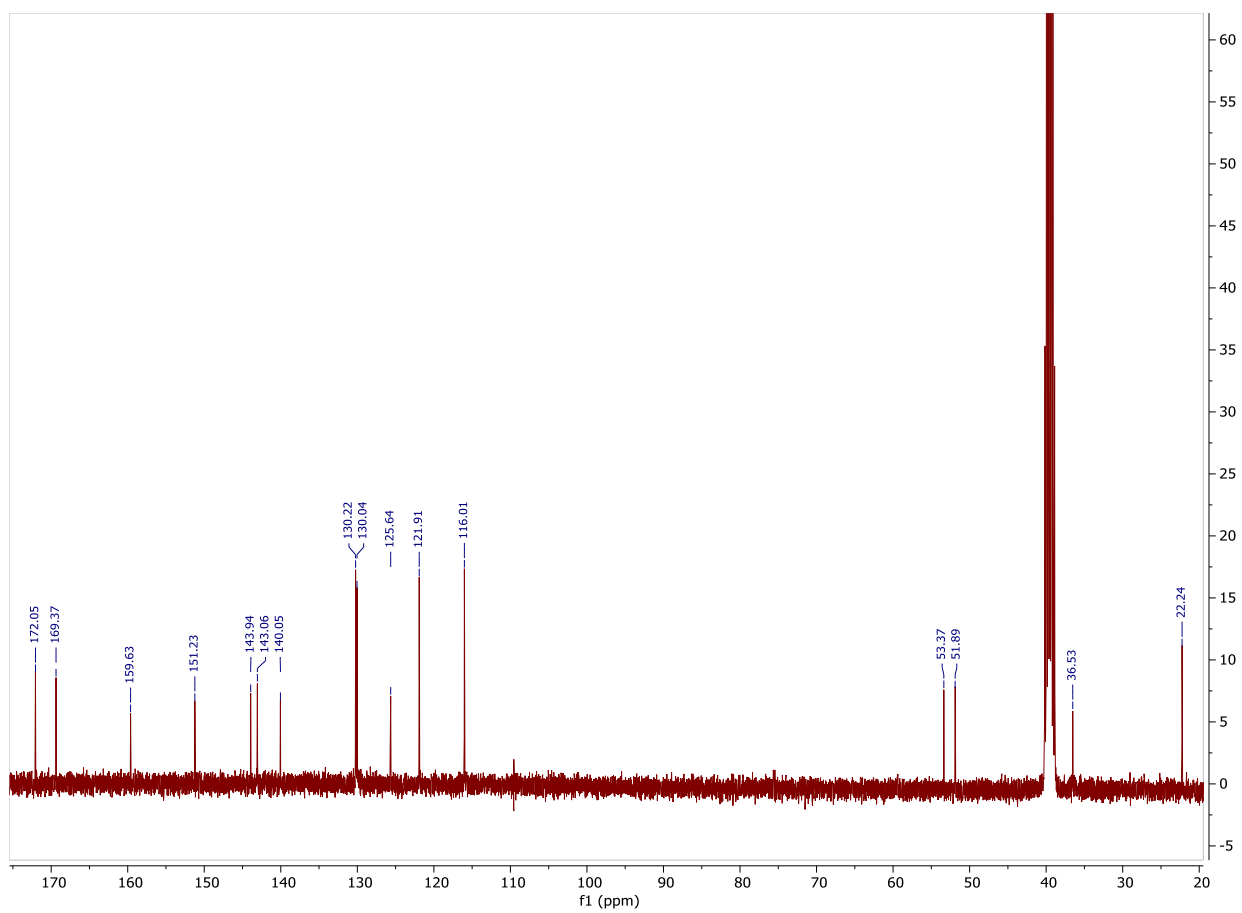


Figure S8 – ^{13}C -NMR spectrum of **5a**

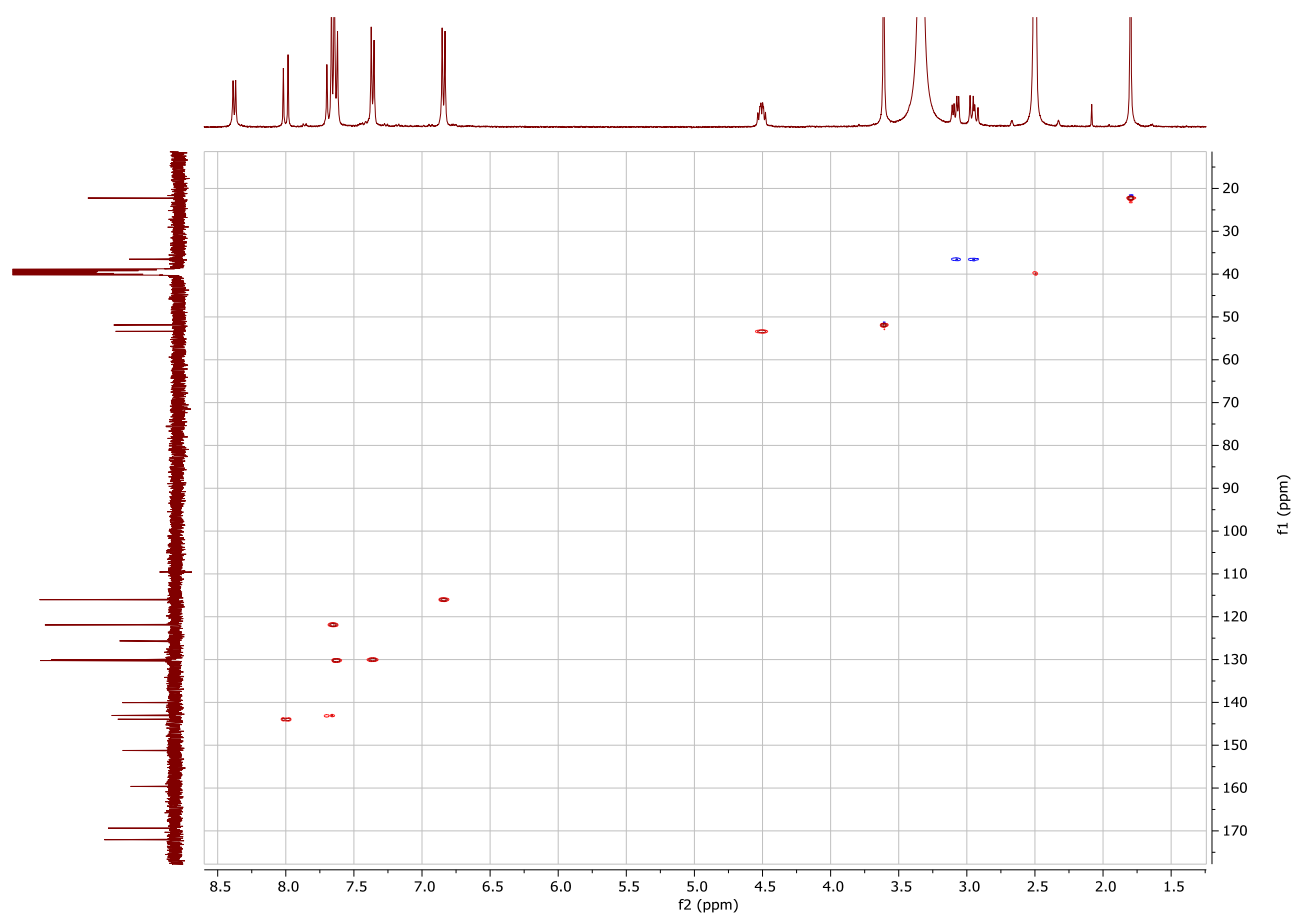


Figure S9 – ^1H - ^{13}C HSQC NMR spectrum of **5a**

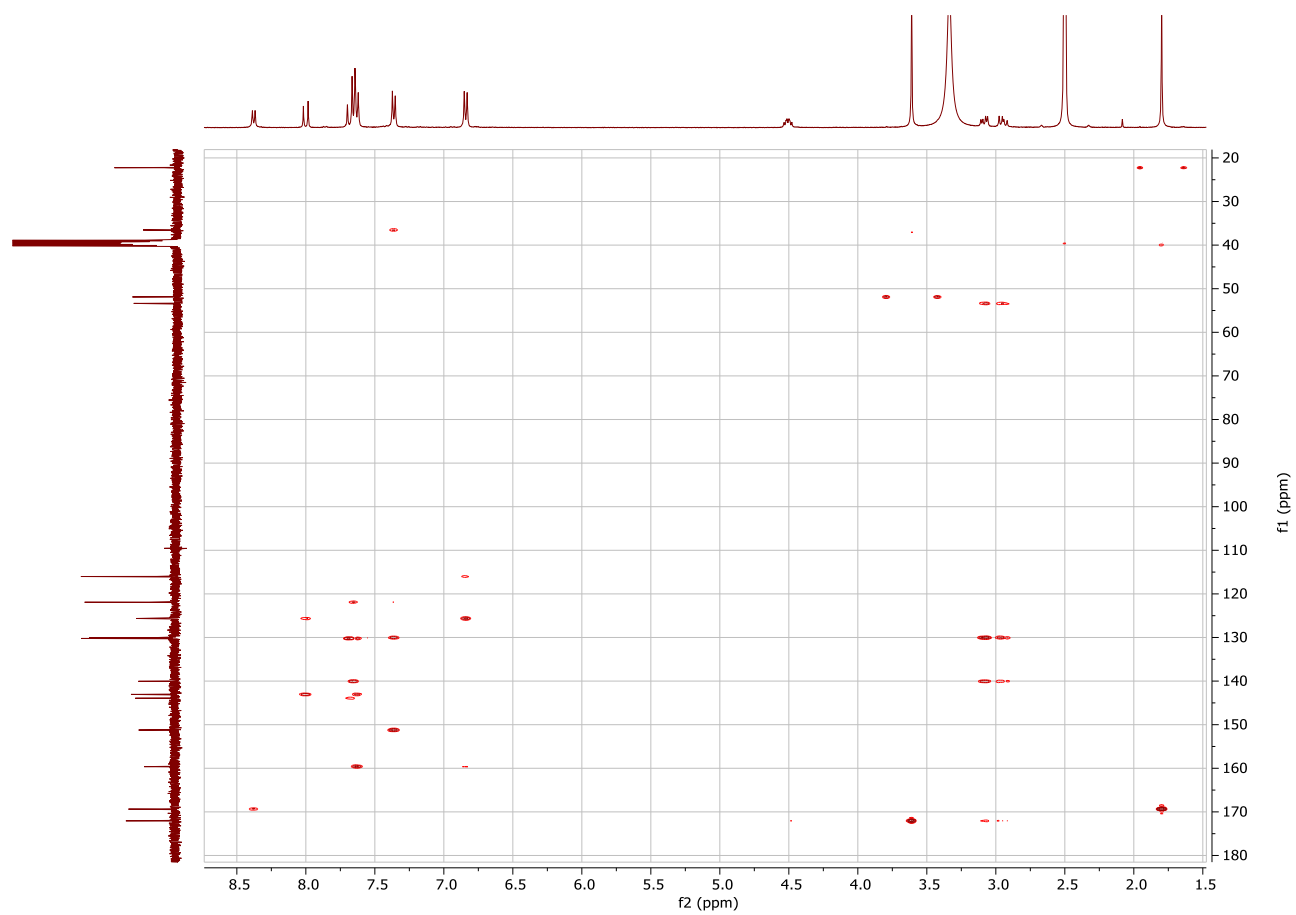


Figure S10 – ^1H - ^{13}C HMBC NMR spectrum of **5a**

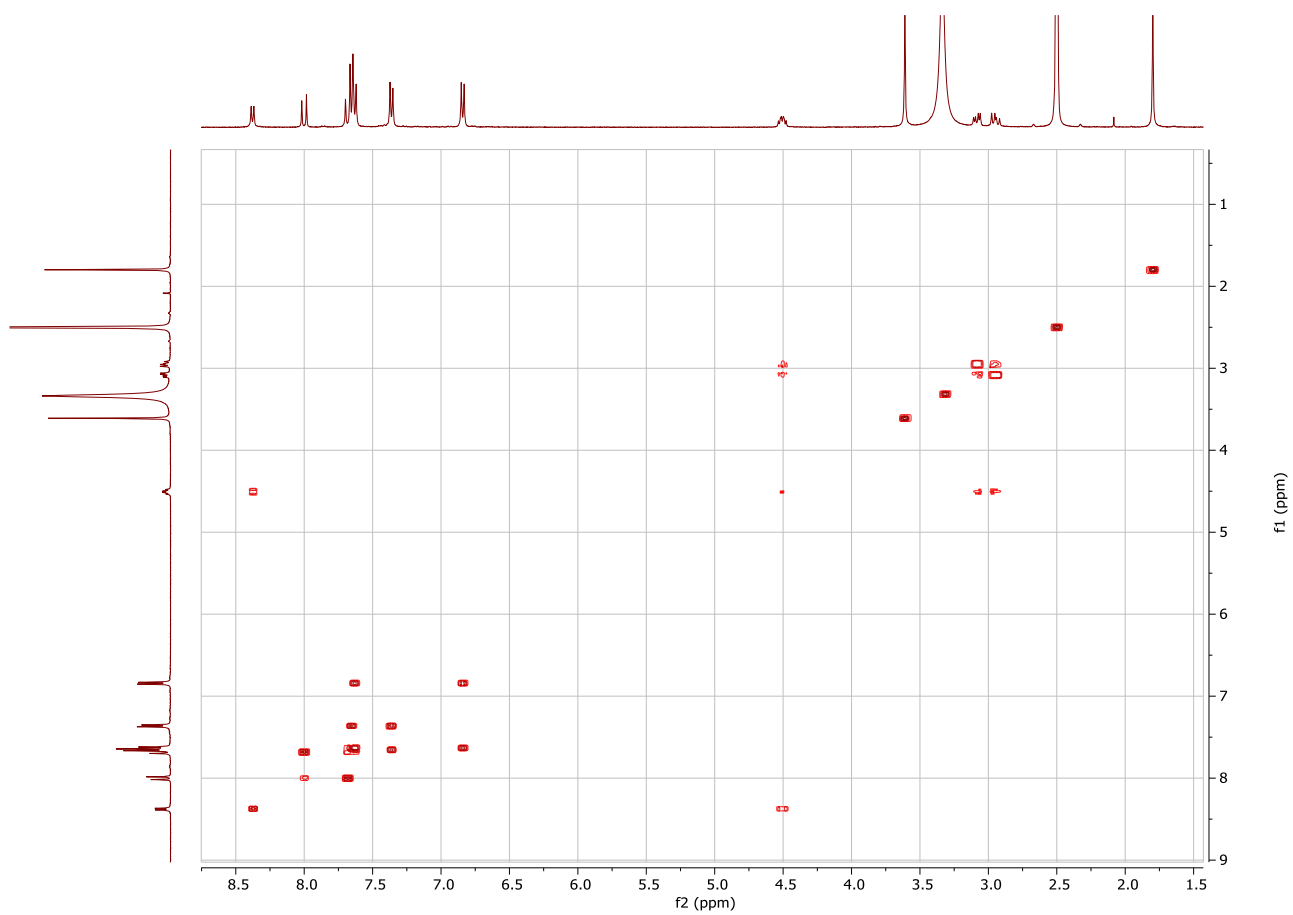


Figure S11 – ^1H - ^1H COSY NMR spectrum of **5a**

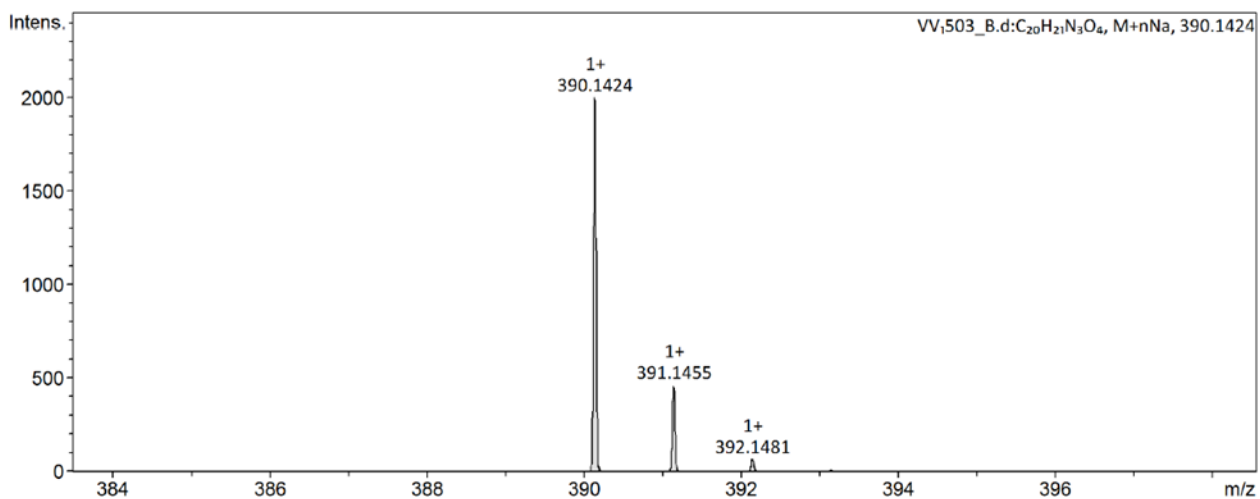
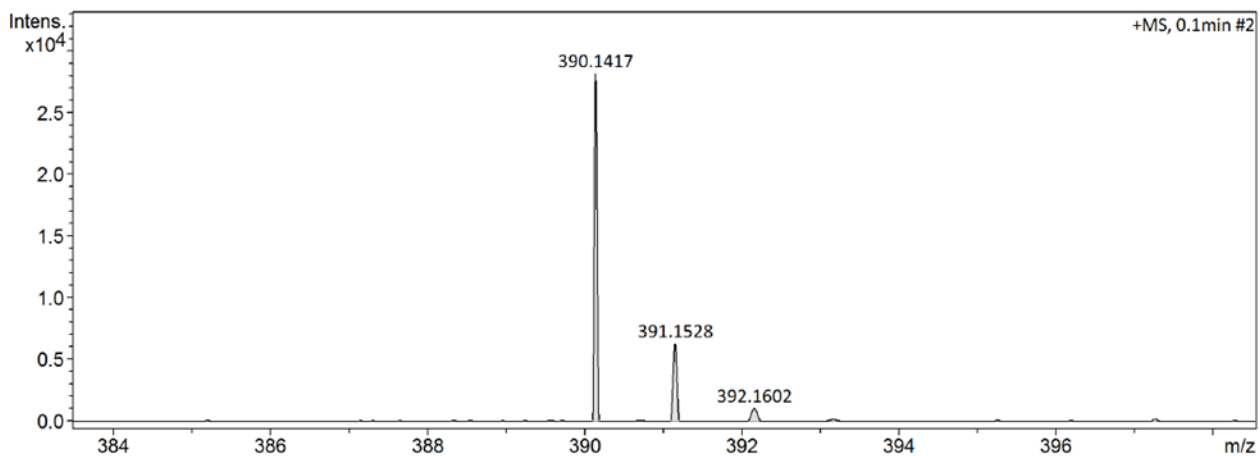
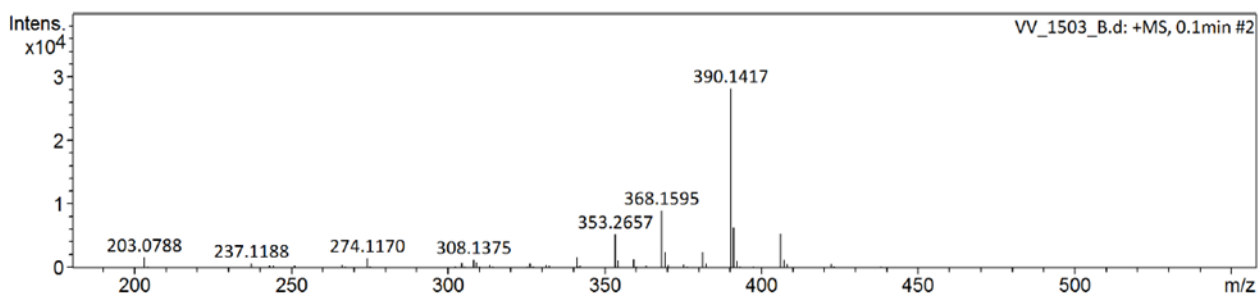


Figure S12 – Accurate mass spectrum of **5a**

Diazadiene 3b

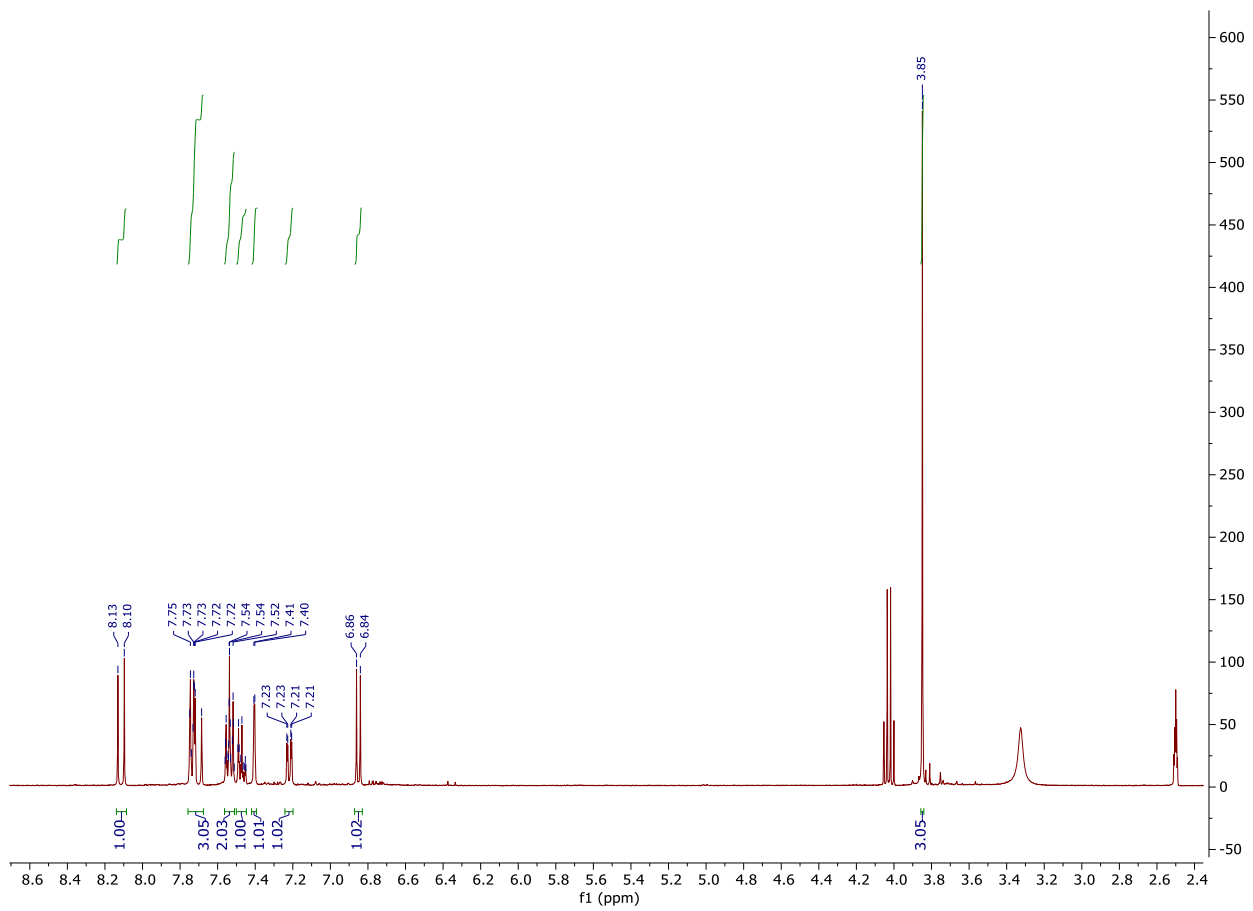


Figure S13 – ¹H-NMR spectrum of **3b**

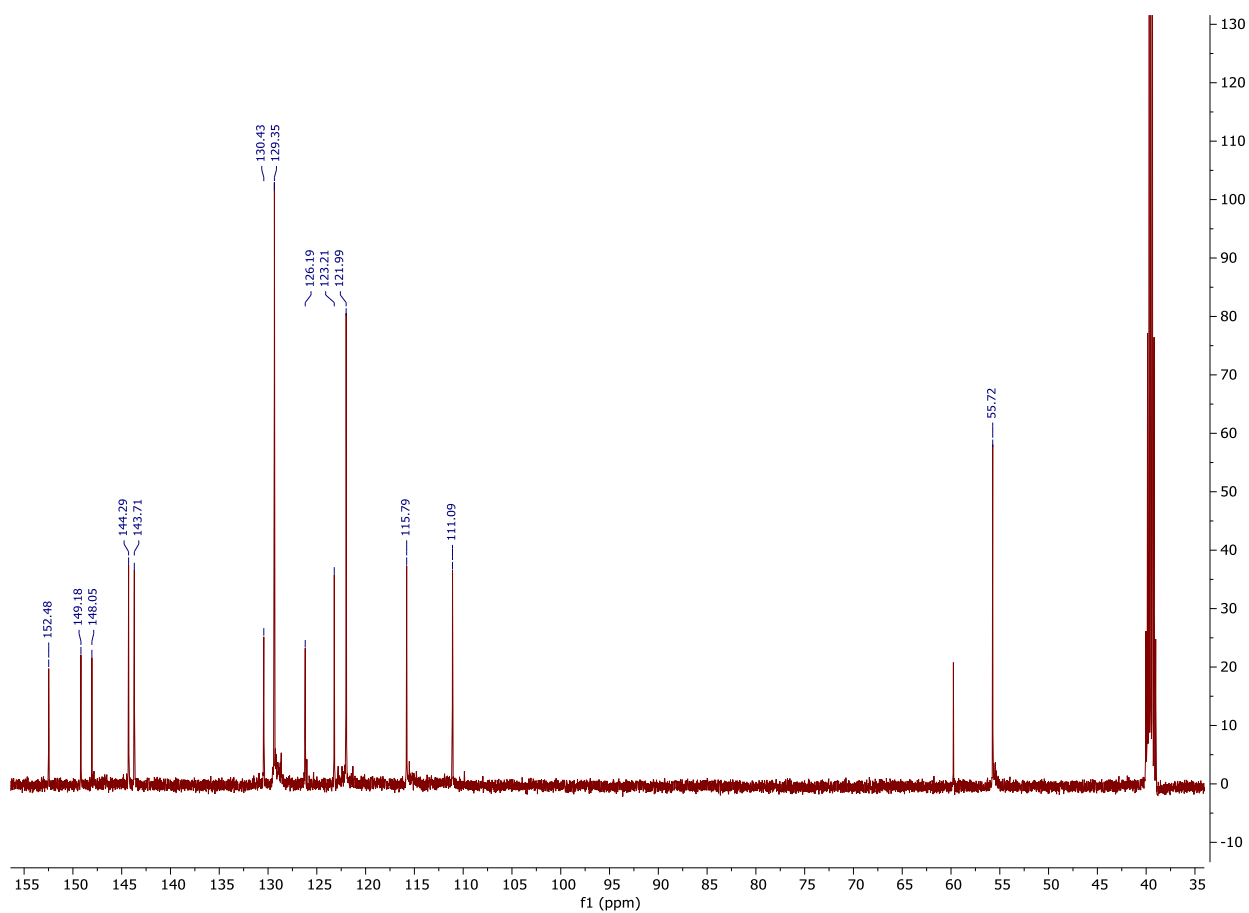


Figure S14 – ^{13}C -NMR spectrum of **3b**

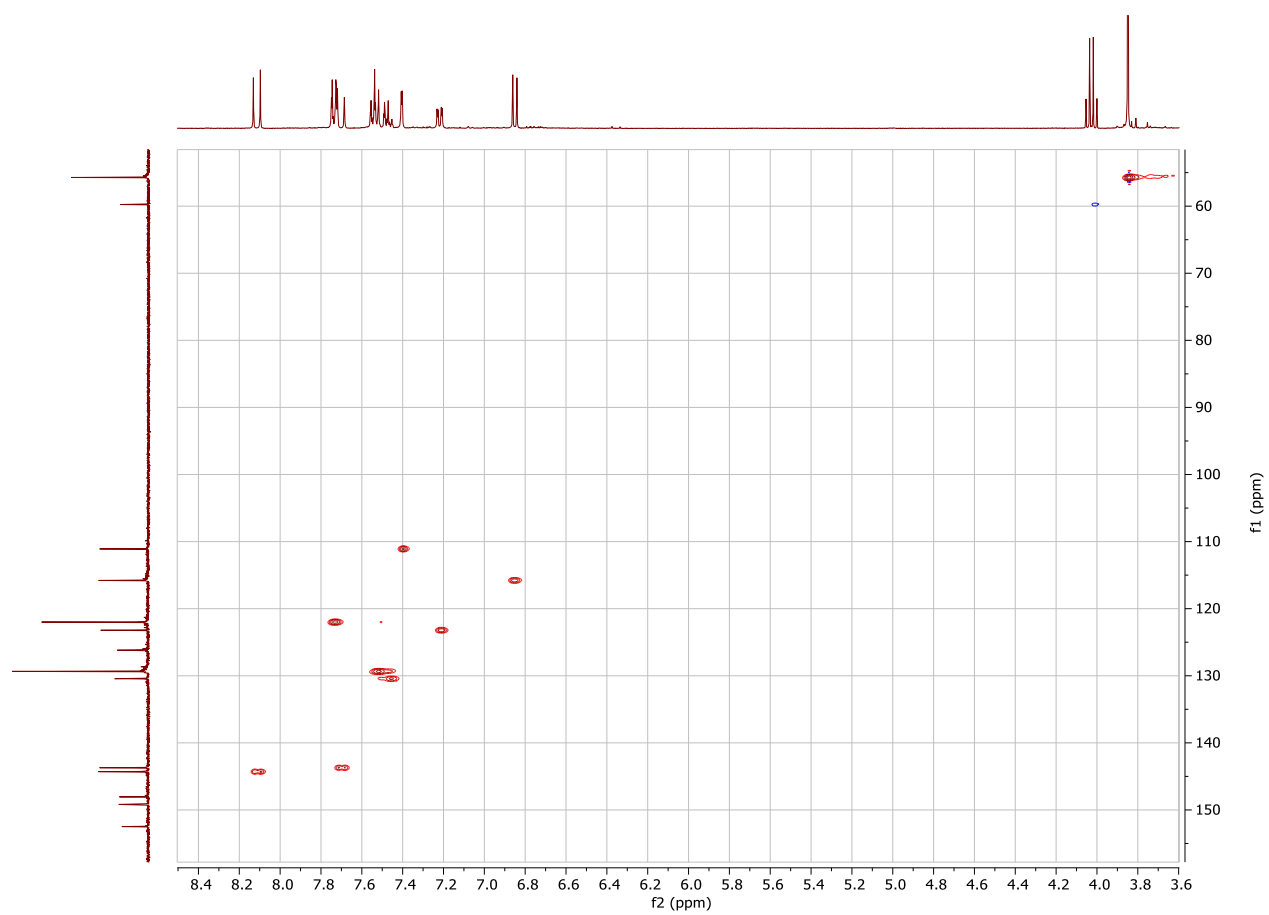


Figure S15 – ^1H - ^{13}C HSQC NMR spectrum of **3b**

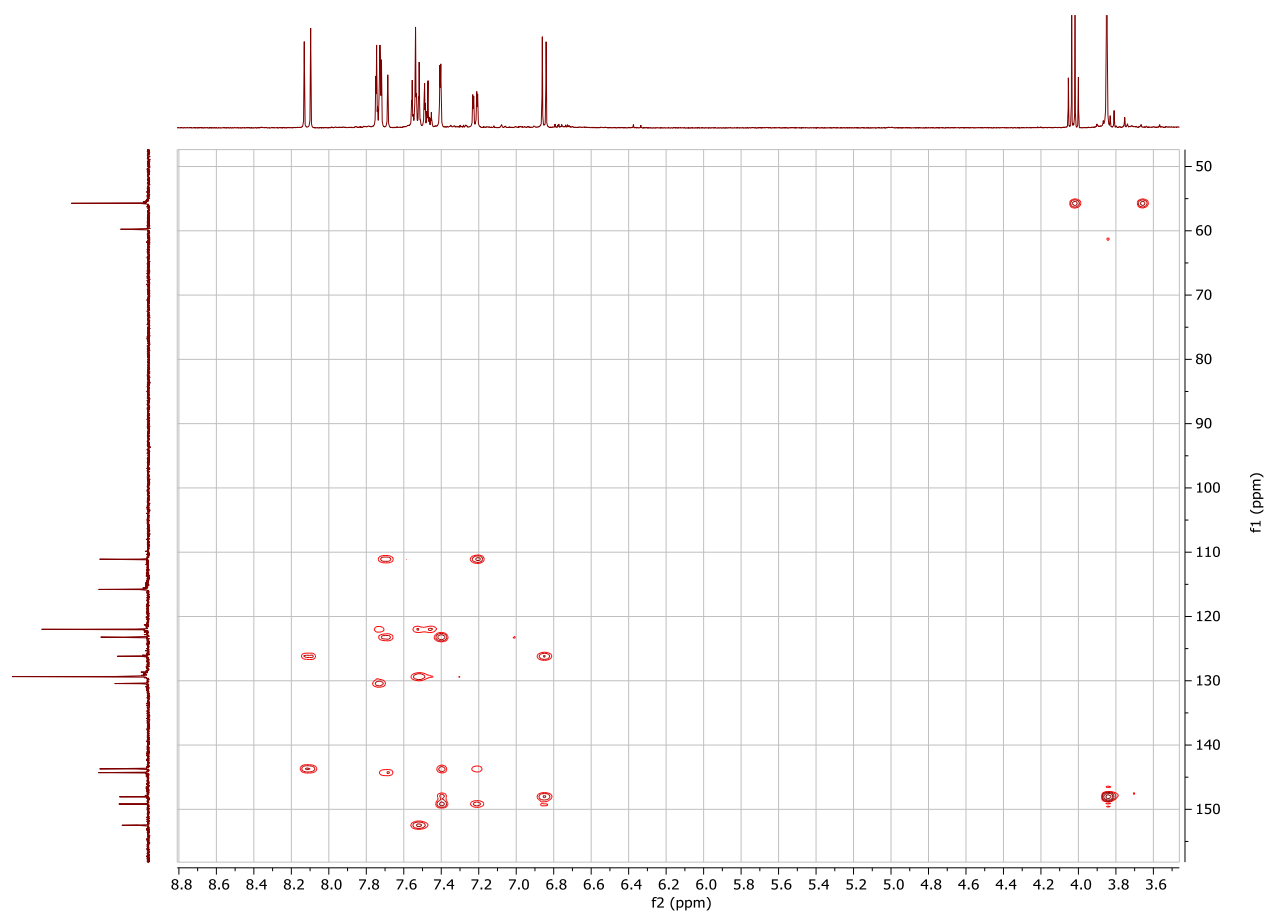


Figure S16 – ^1H - ^{13}C HMBC NMR spectrum of **3b**

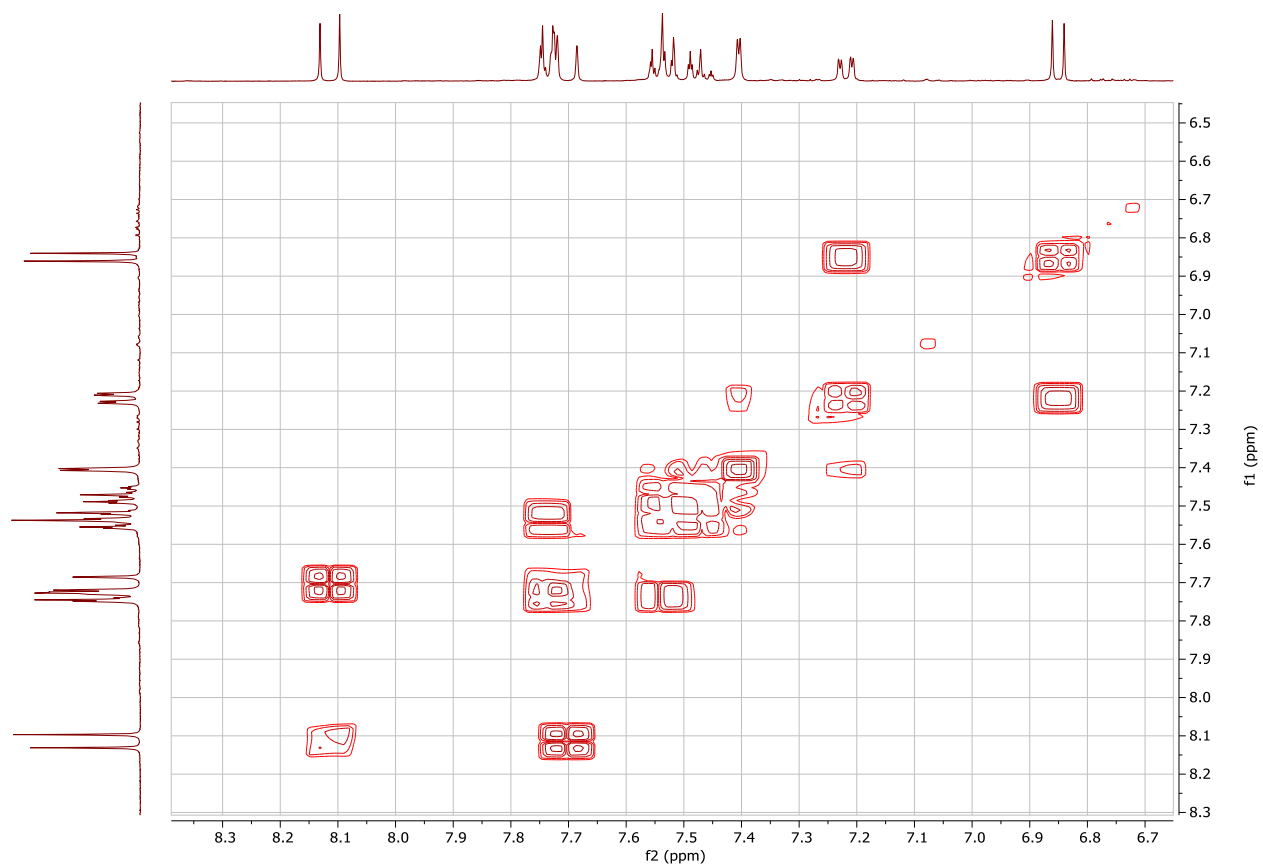


Figure S17 – ^1H - ^1H COSY NMR spectrum of **3b**

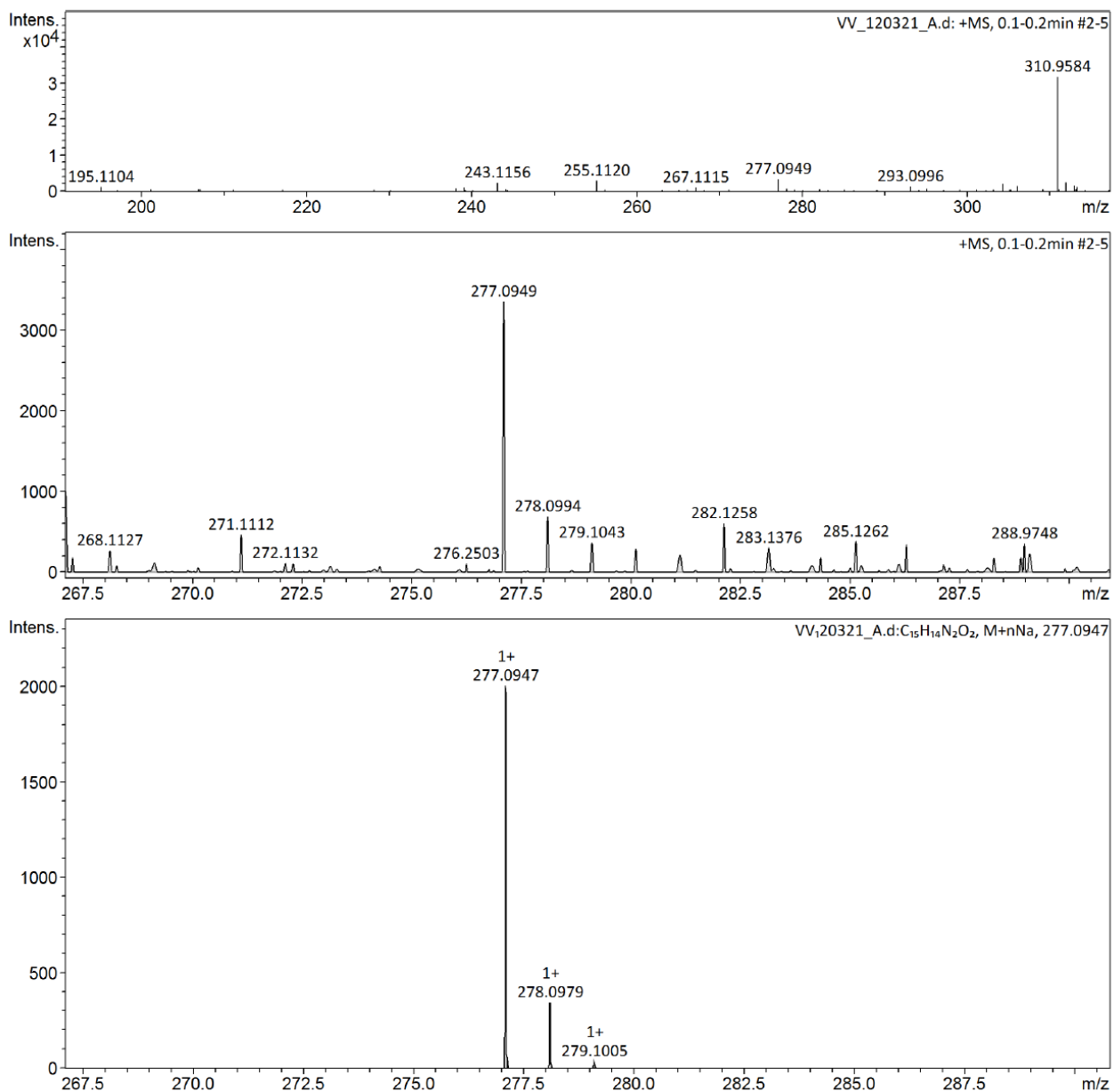


Figure S18 – Accurate mass spectrum of **3b**

Diazadiene 5b

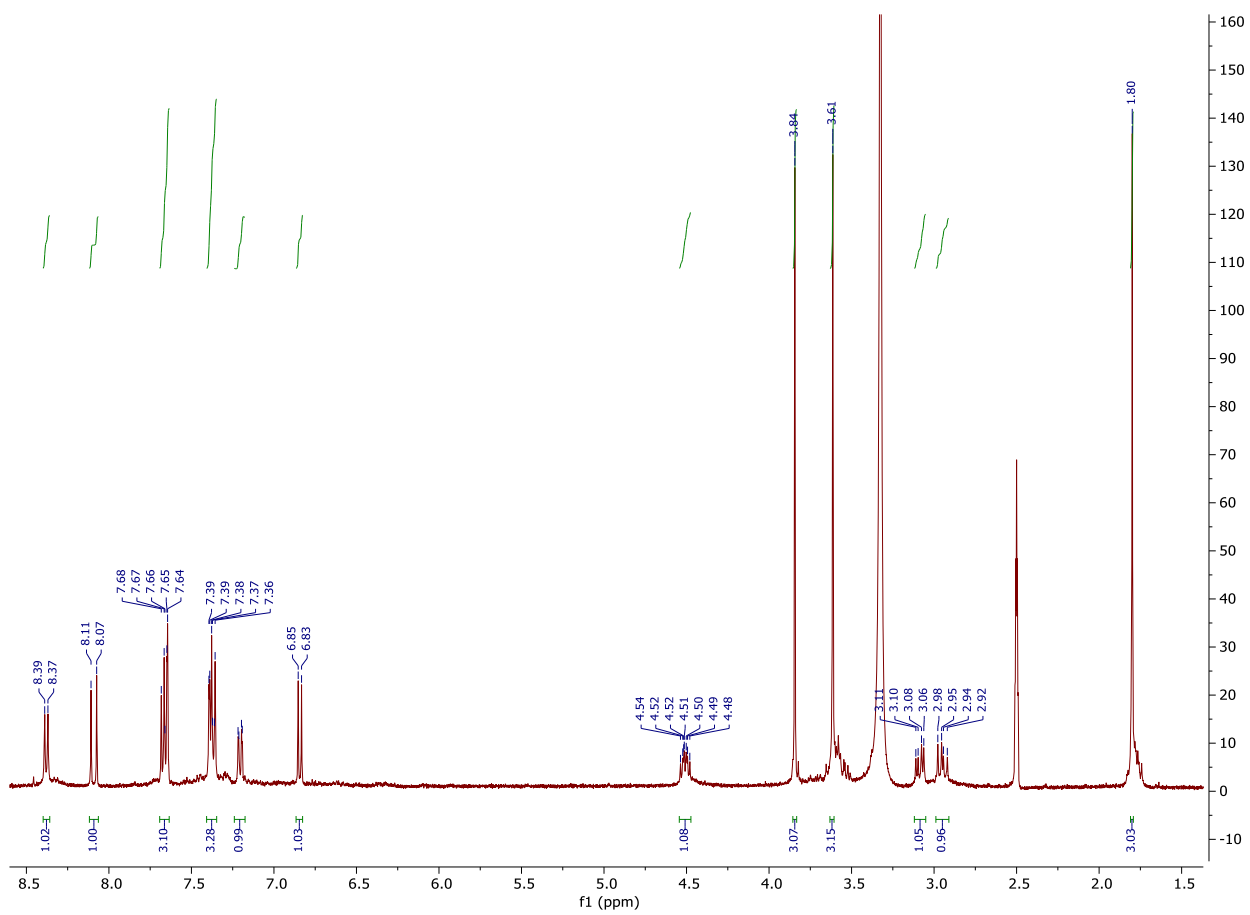


Figure S19 – ¹H-NMR spectrum of 5b

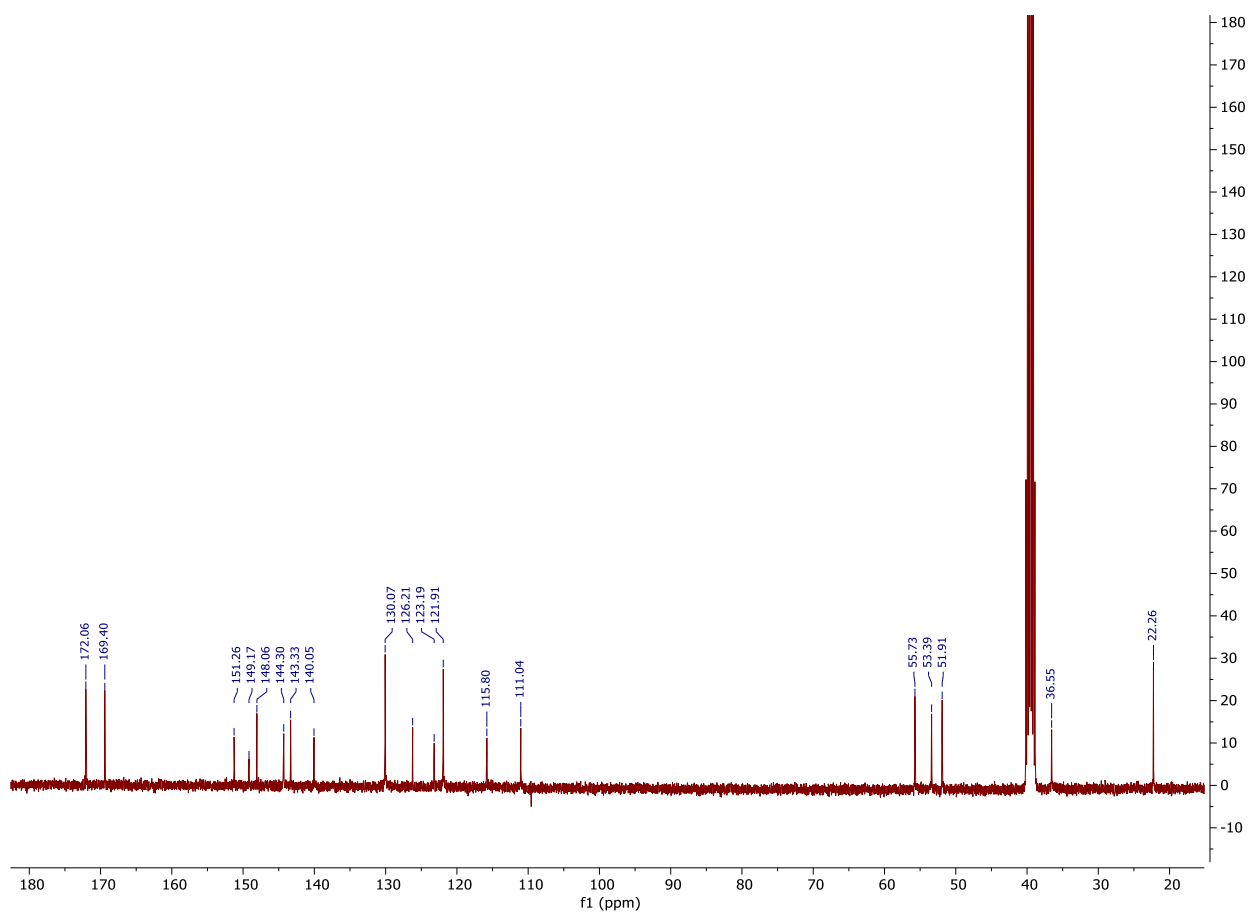


Figure S20 – ^{13}C -NMR spectrum of **5b**

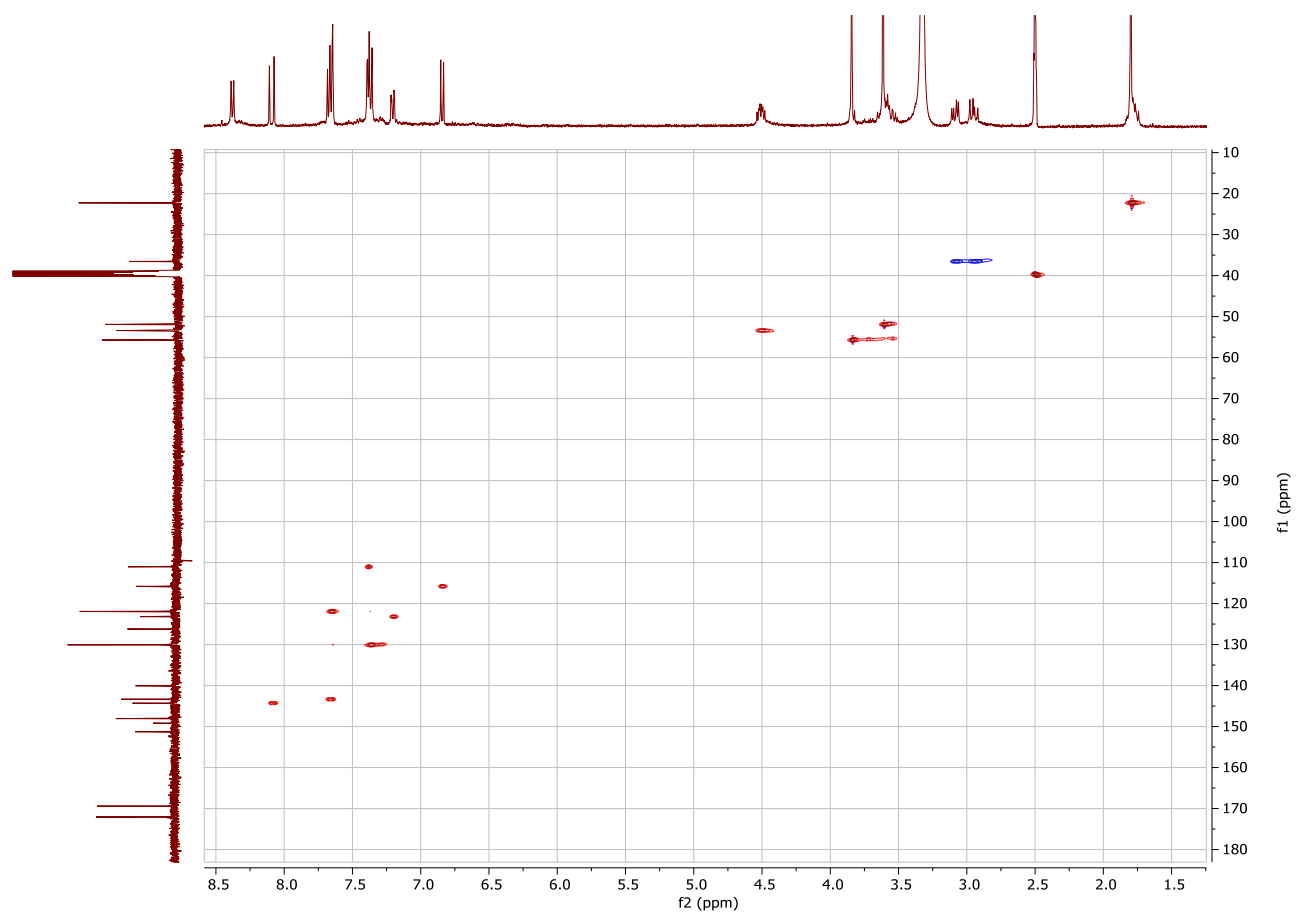


Figure S21 – ^1H - ^{13}C HSQC NMR spectrum of **5b**

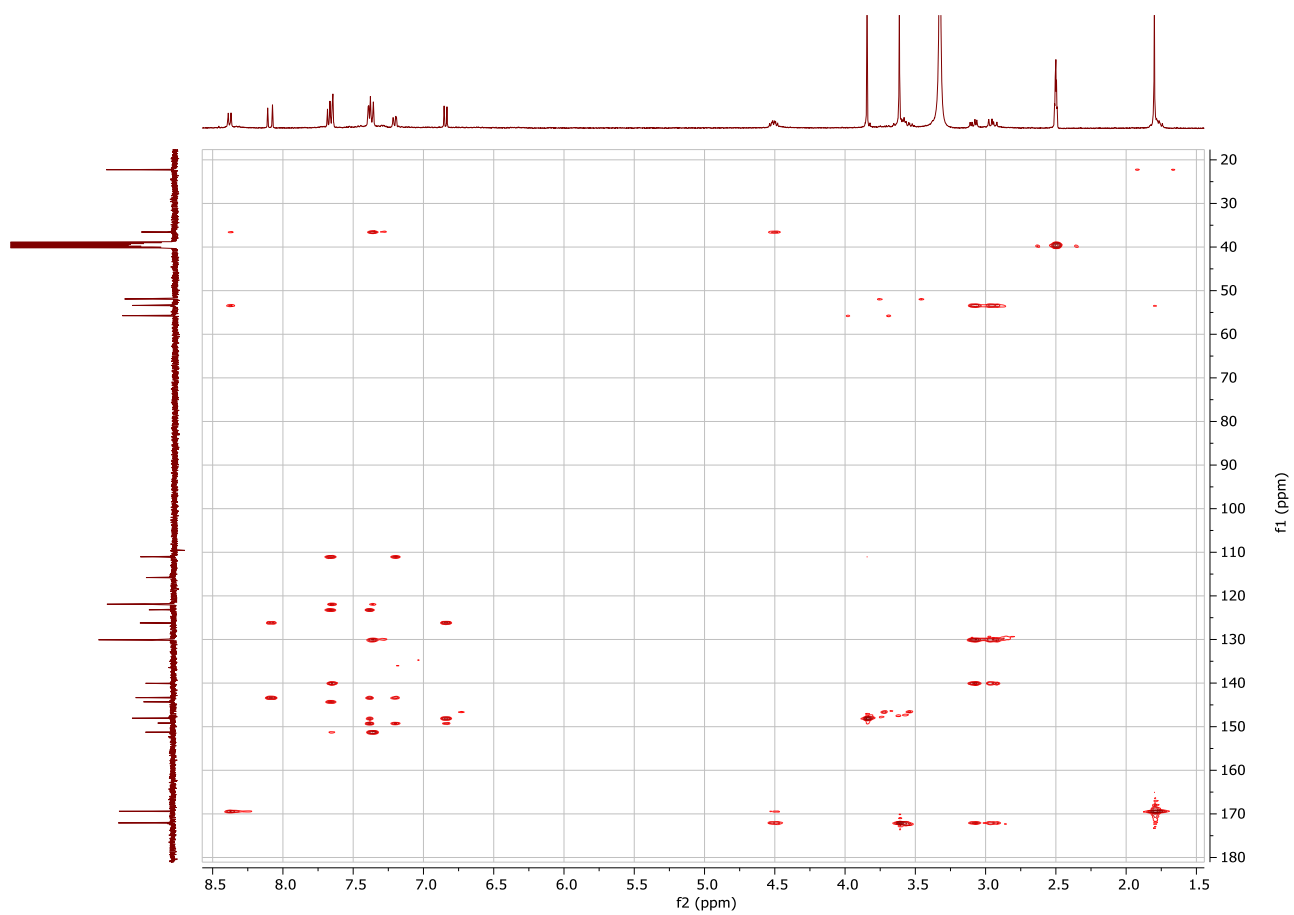


Figure S22 – ^1H - ^{13}C HMBC NMR spectrum of **5b**

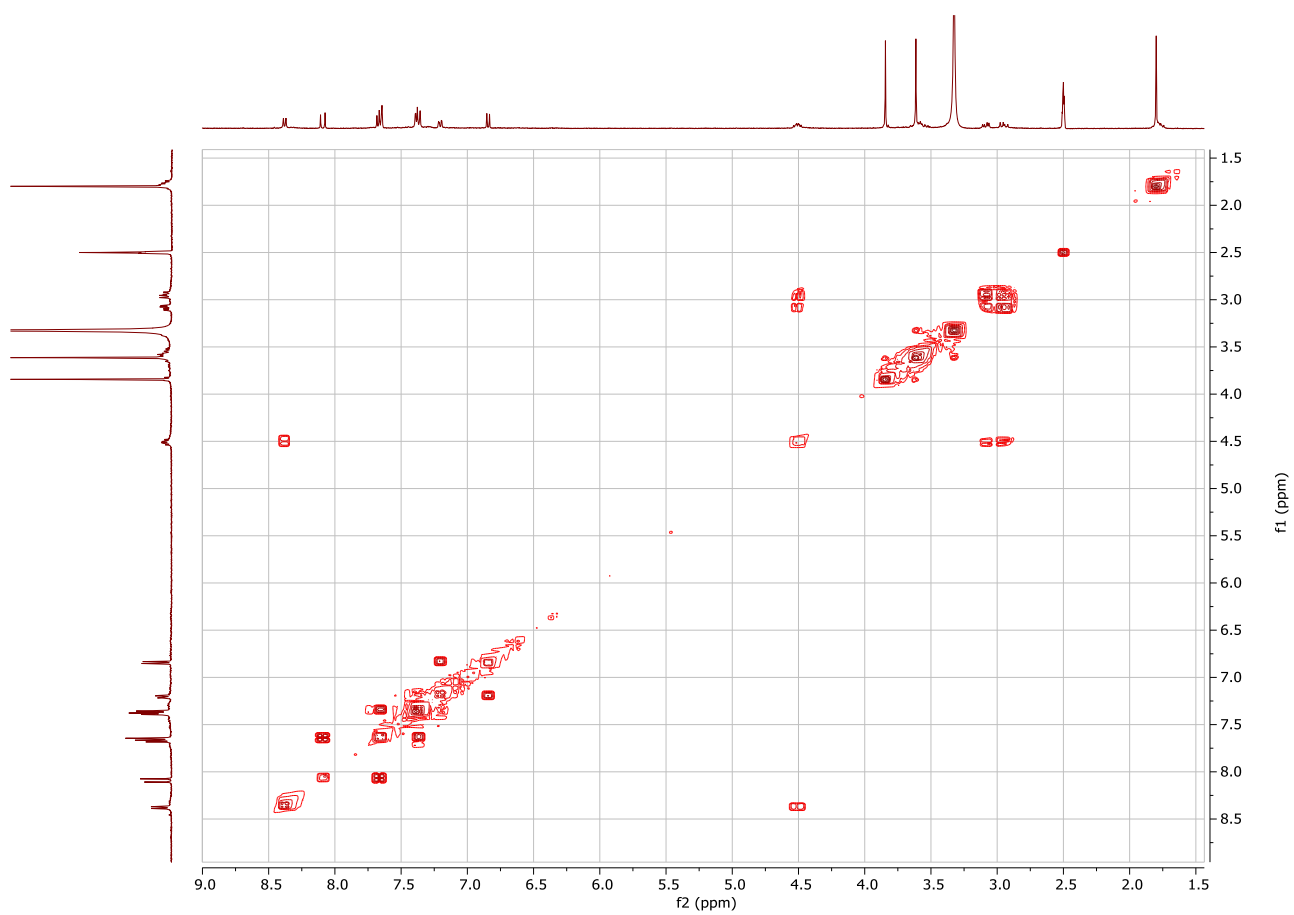


Figure S23 – ^1H - ^1H COSY NMR spectrum of **5b**

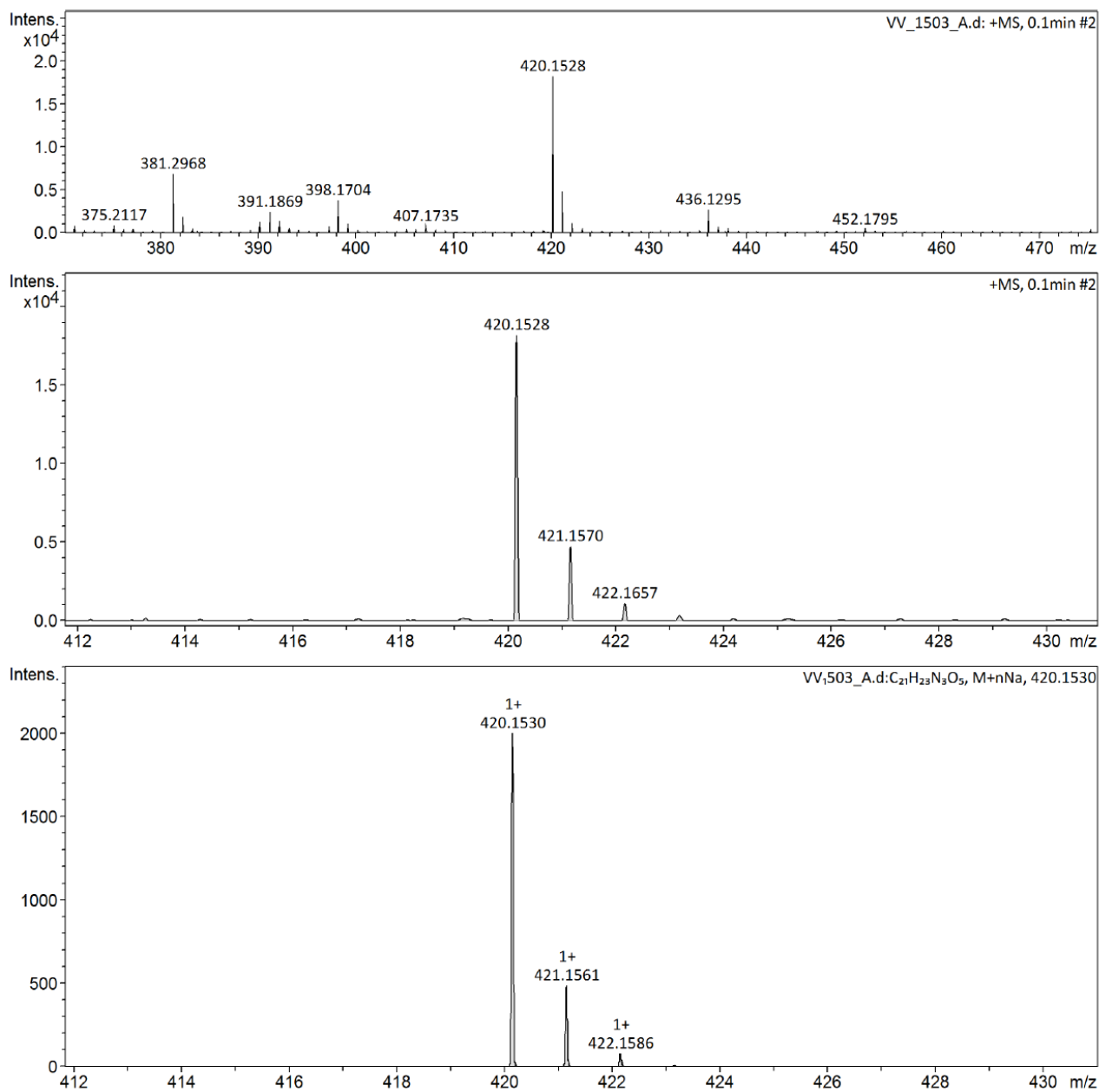


Figure S24 – Accurate mass spectrum of **5b**

Diazadiene 3c

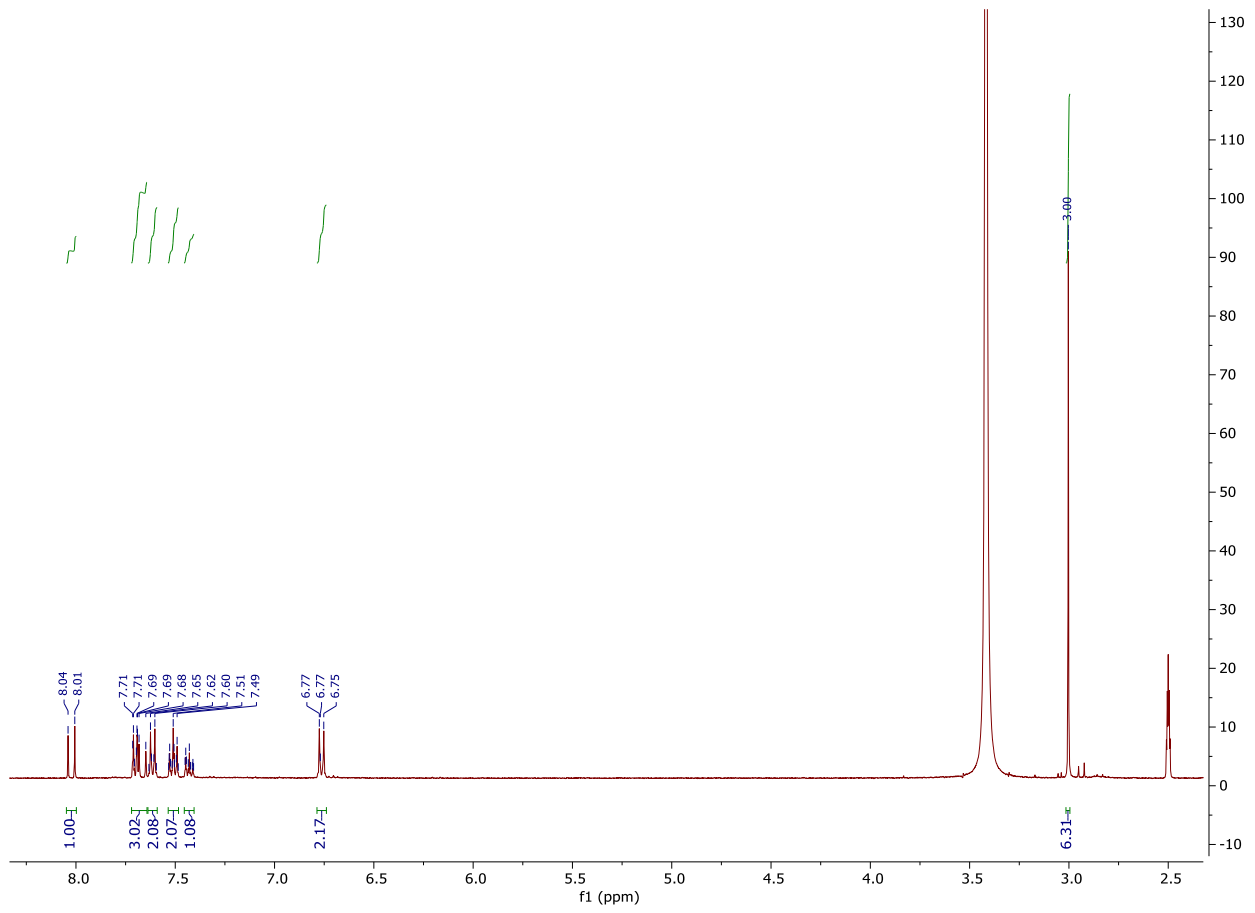


Figure S25 – $^1\text{H-NMR}$ spectrum of 3c

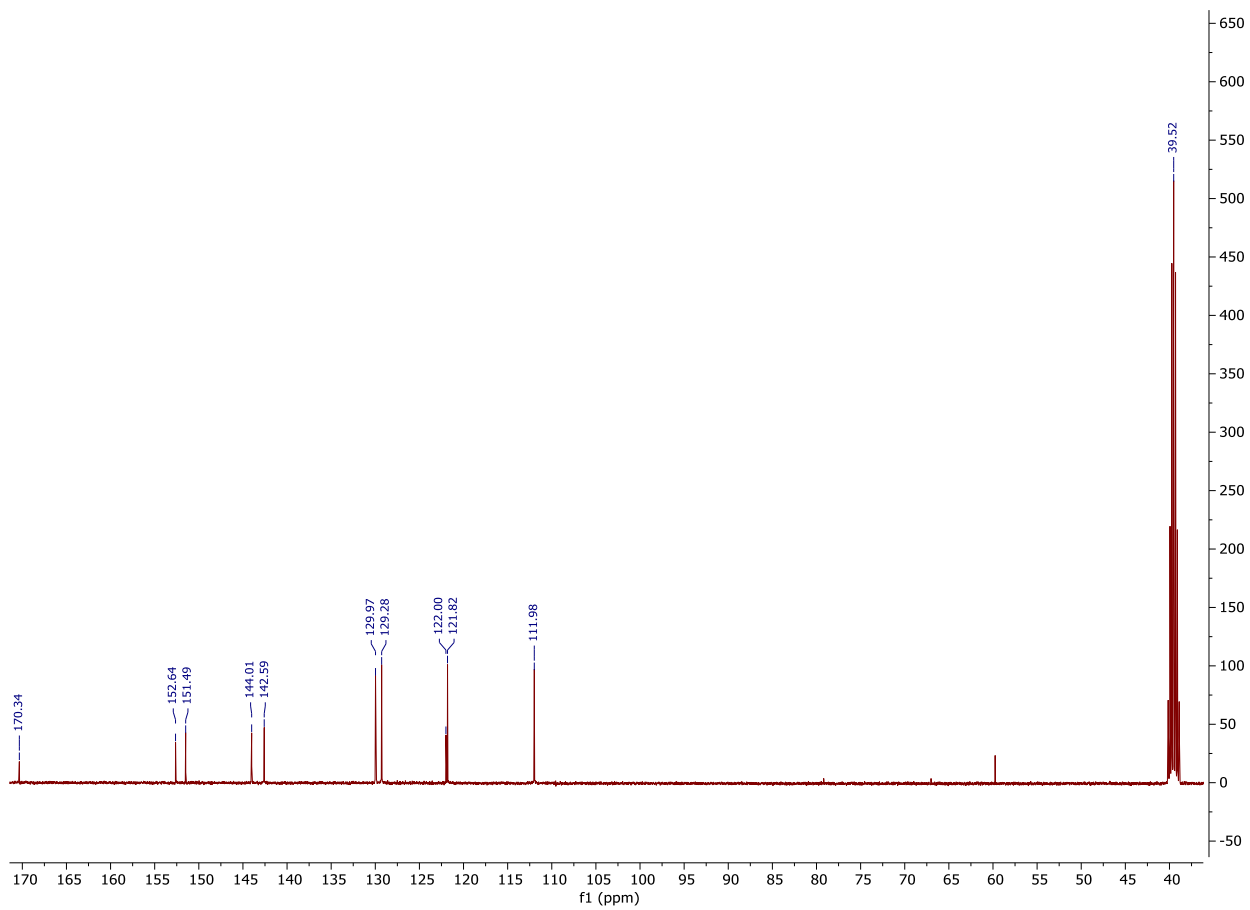


Figure S26 – ^{13}C -NMR spectrum of **3c**

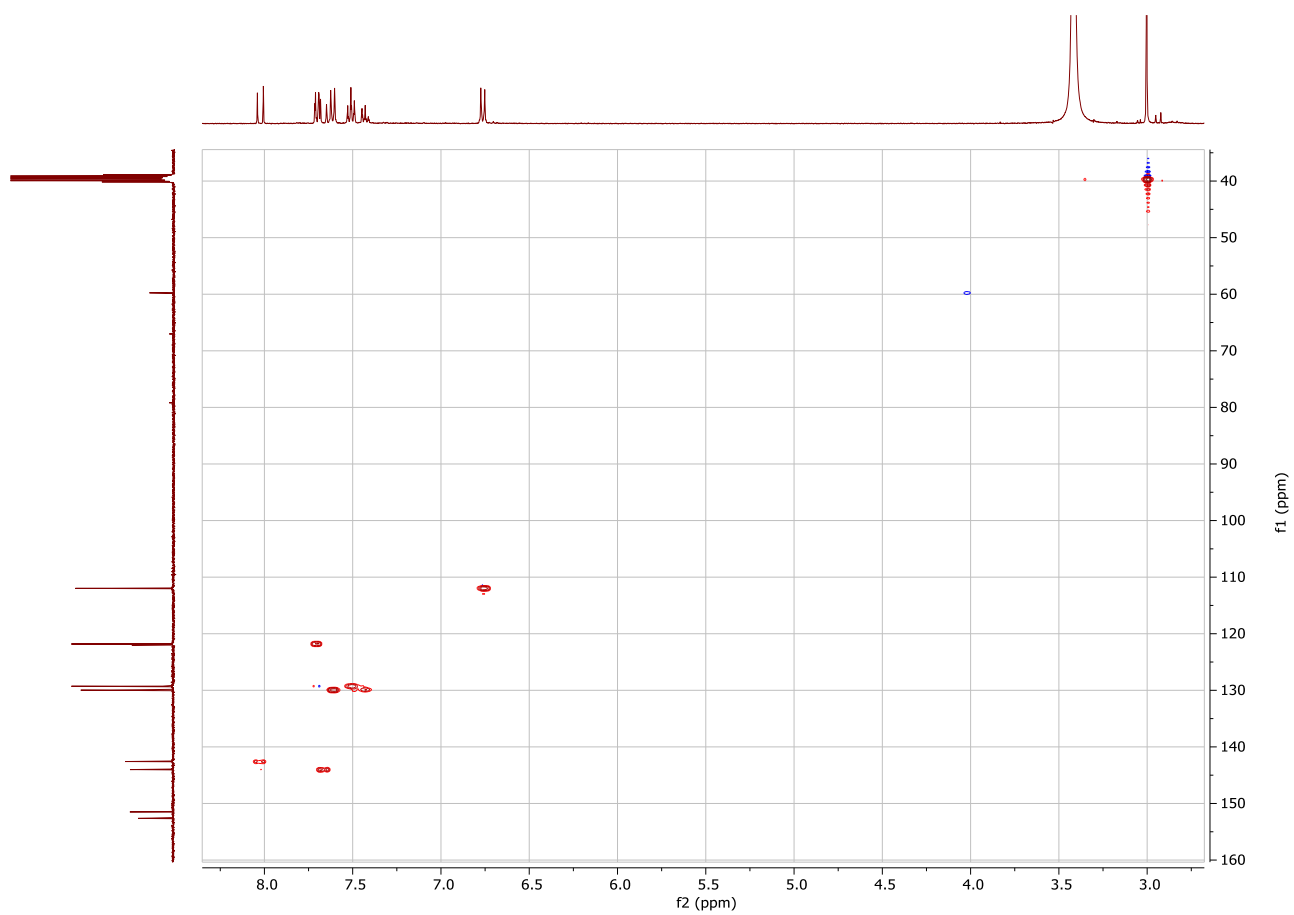


Figure S27 – ^1H - ^{13}C HSQC NMR spectrum of **3c**

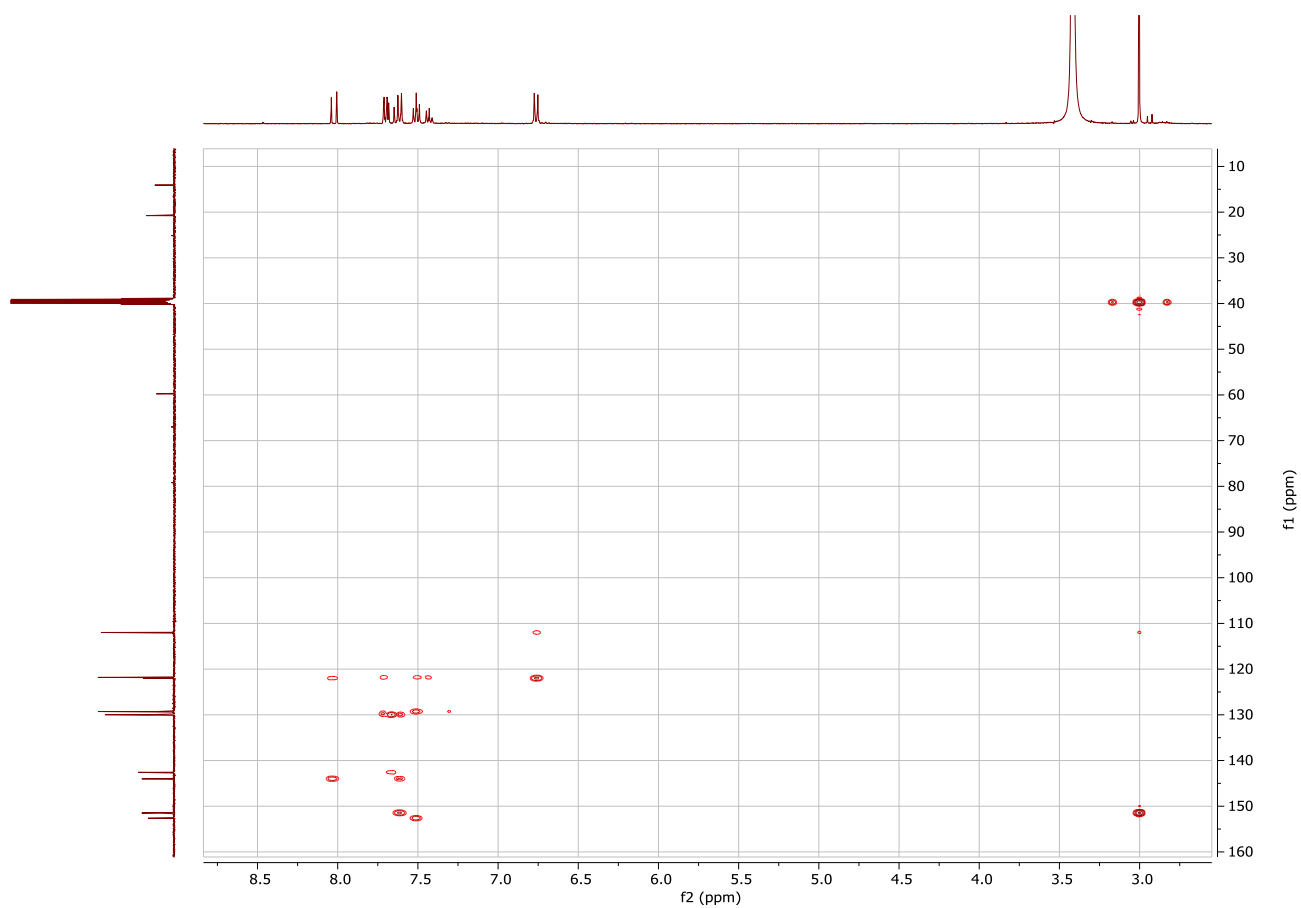


Figure S28 – ^1H - ^{13}C HMBC NMR spectrum of **3c**

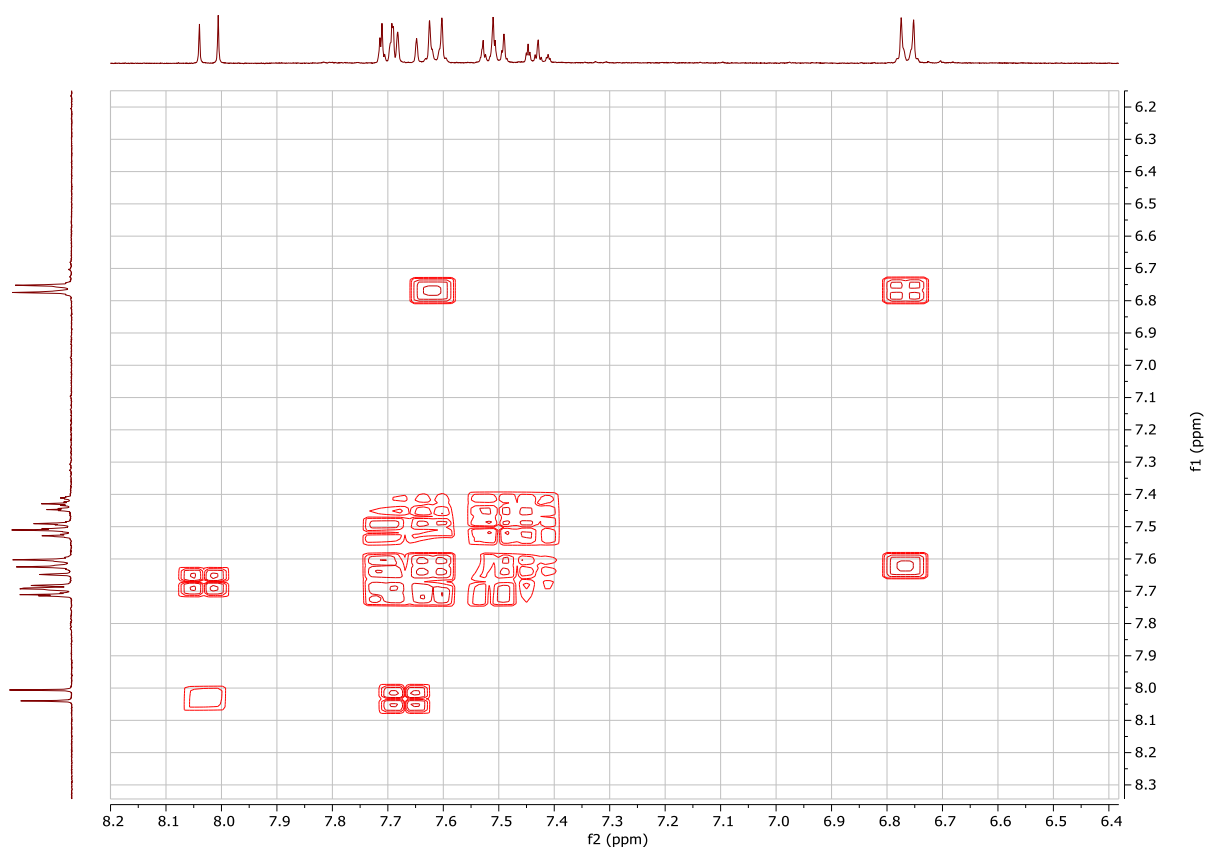


Figure S29 – ^1H - ^1H COSY NMR spectrum of **3c**

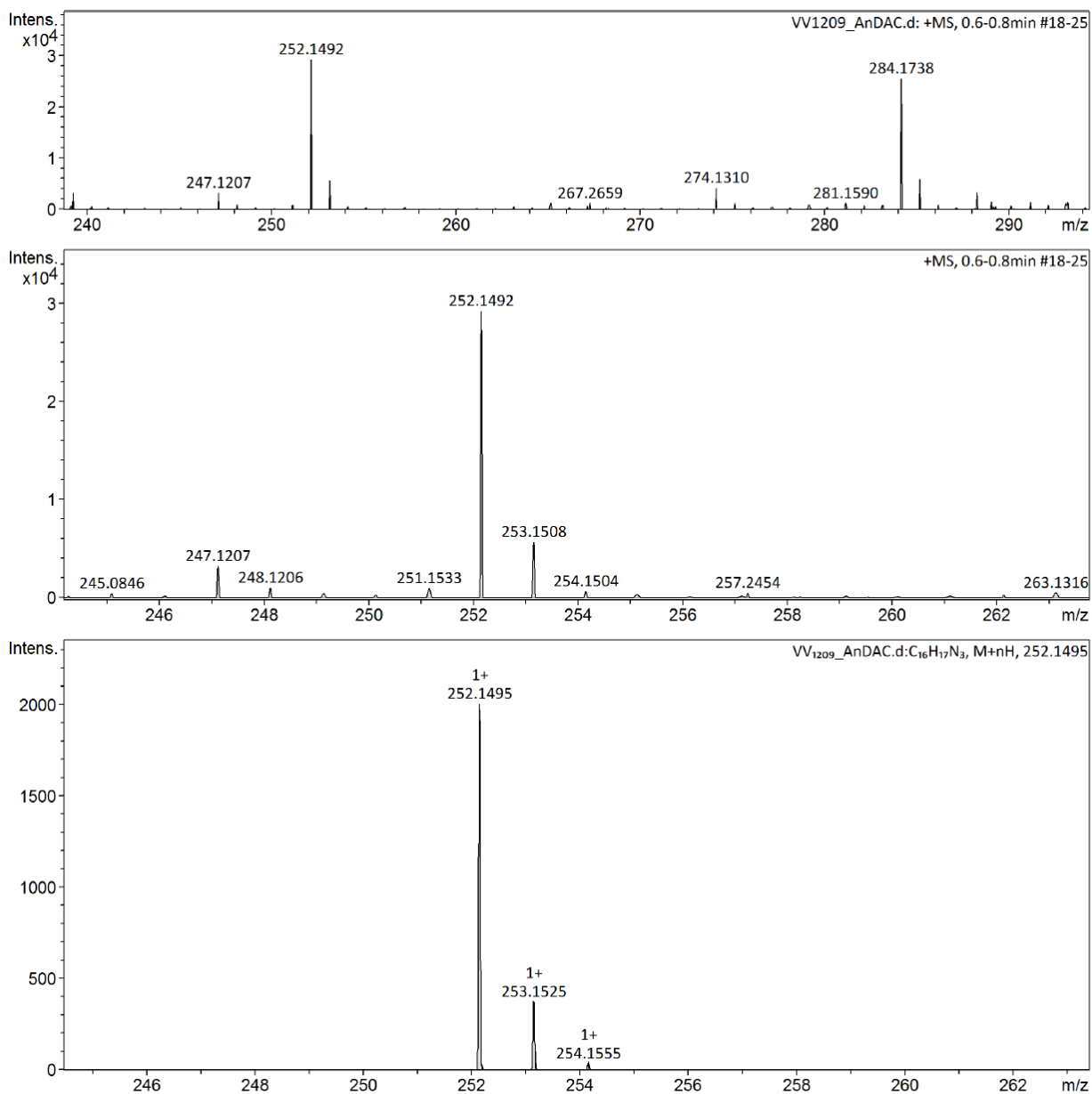


Figure S30 – Accurate mass spectrum of **3c**

Diazadiene 5c

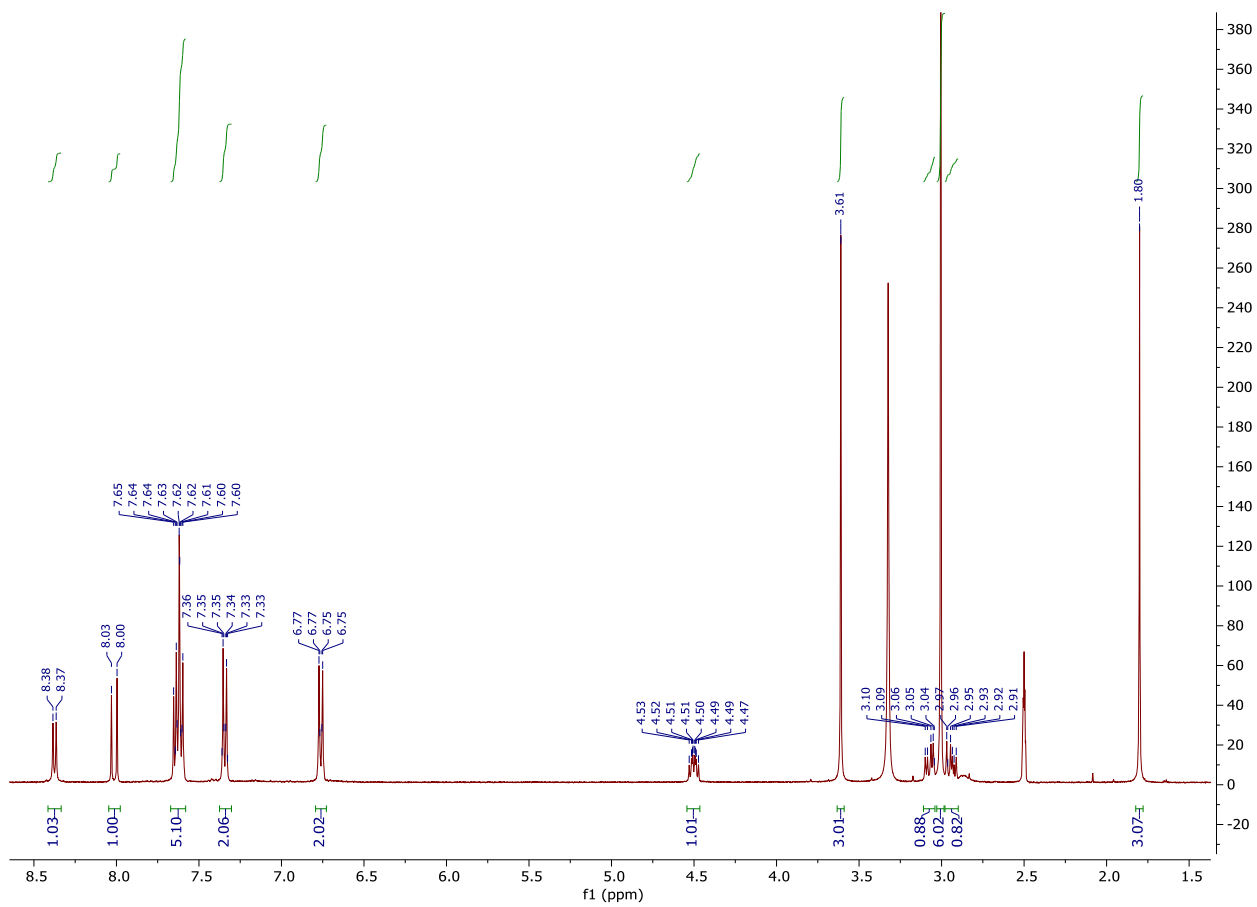


Figure S31 – ¹H-NMR spectrum of 5c

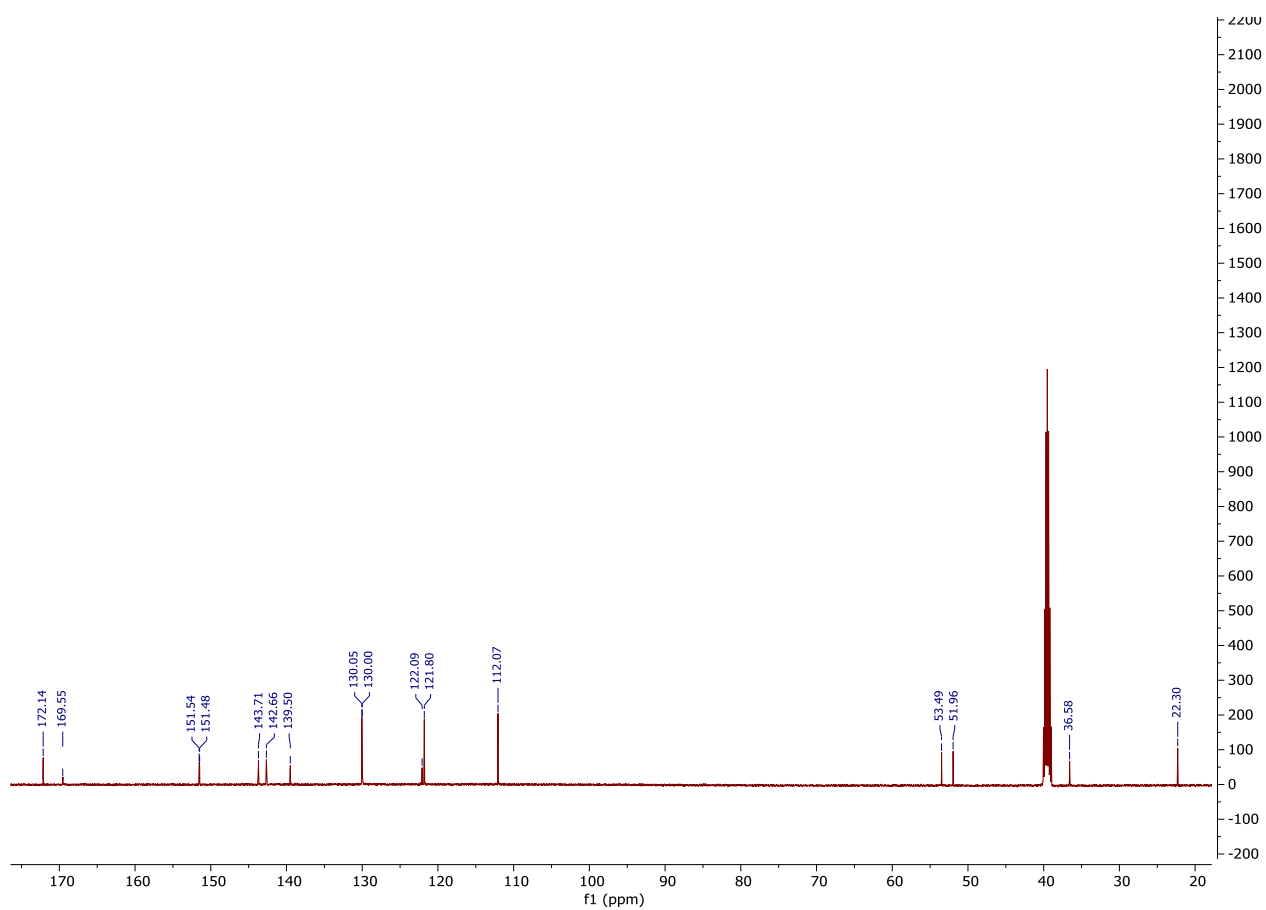


Figure S32 – ^{13}C -NMR spectrum of 5c

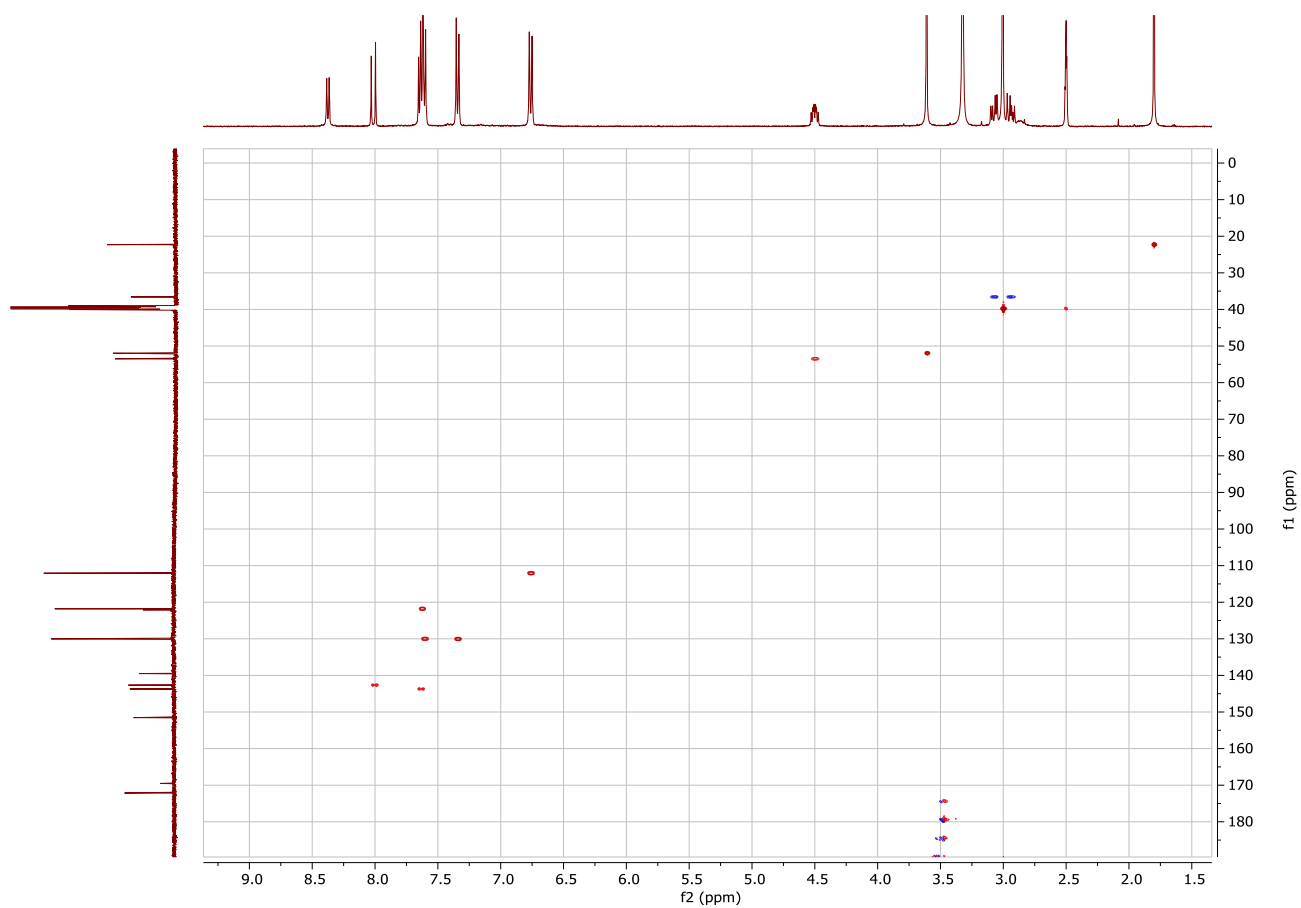


Figure S33 – ^1H - ^{13}C HSQC NMR spectrum of **5c**

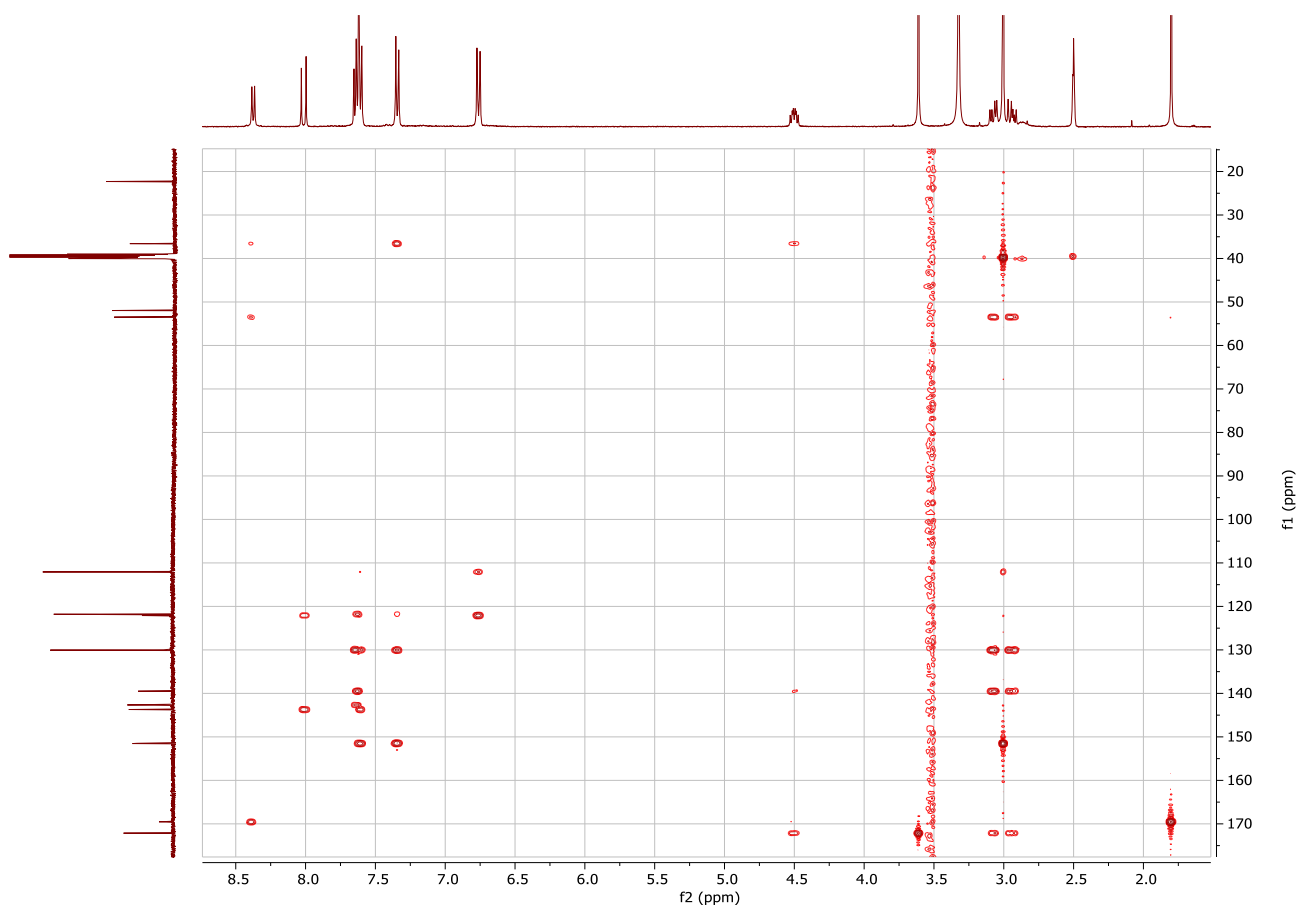


Figure S34 – ^1H - ^{13}C HMBC NMR spectrum of **5c**

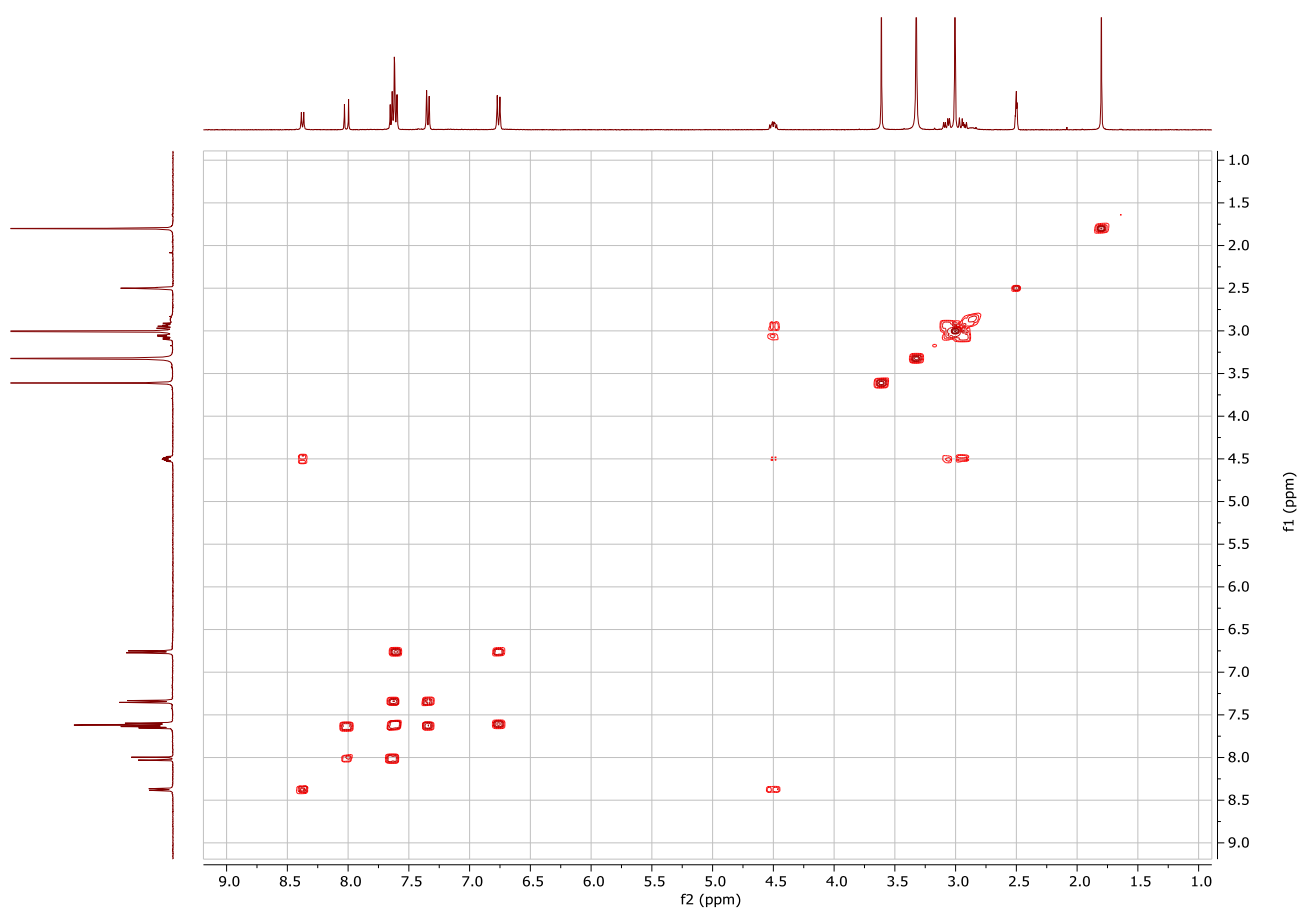


Figure S35 – ^1H - ^1H COSY NMR spectrum of **5c**

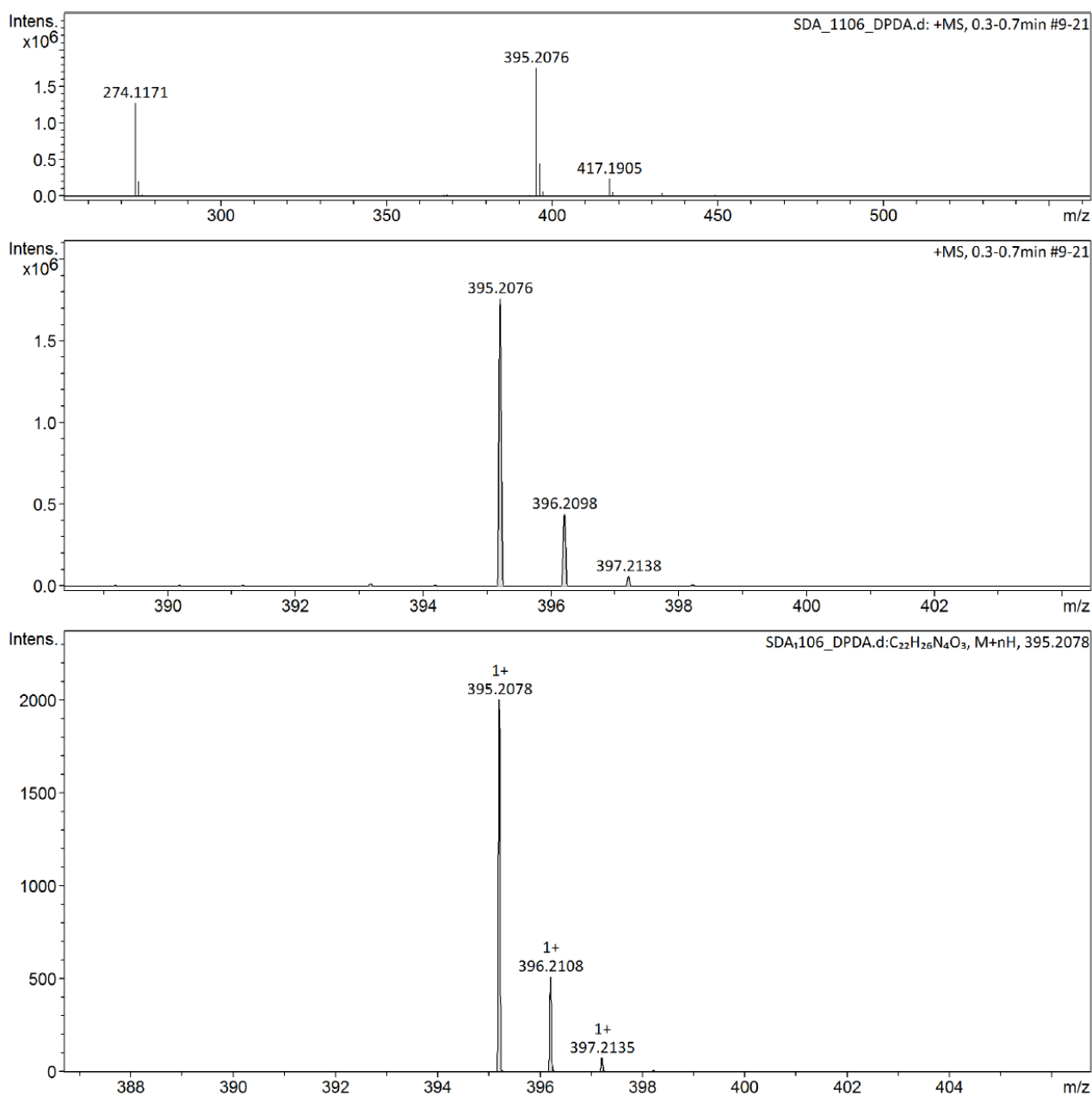


Figure S36 – Accurate mass spectrum of 5c

Diazo-coupling product 3d

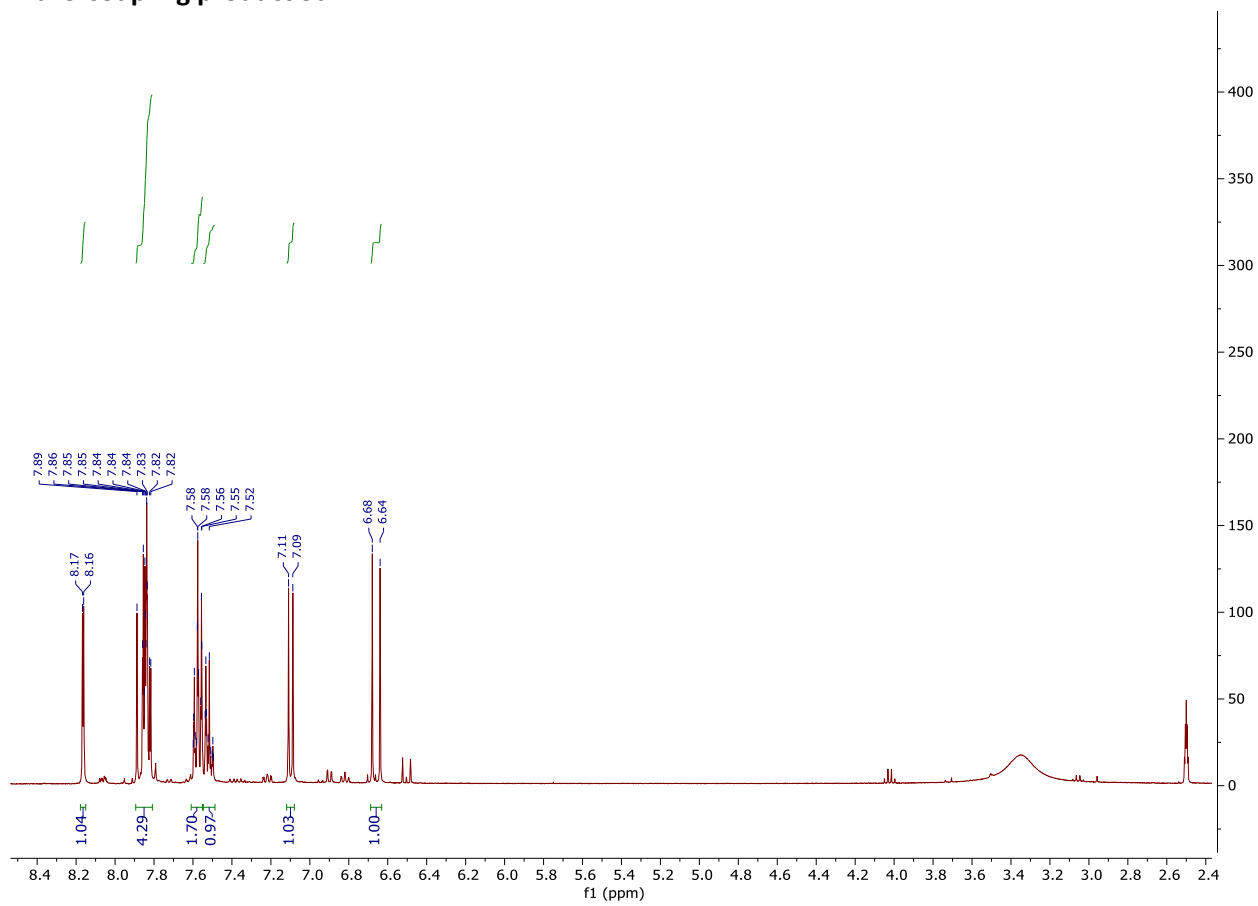


Figure S37 – $^1\text{H-NMR}$ spectrum of **3d**

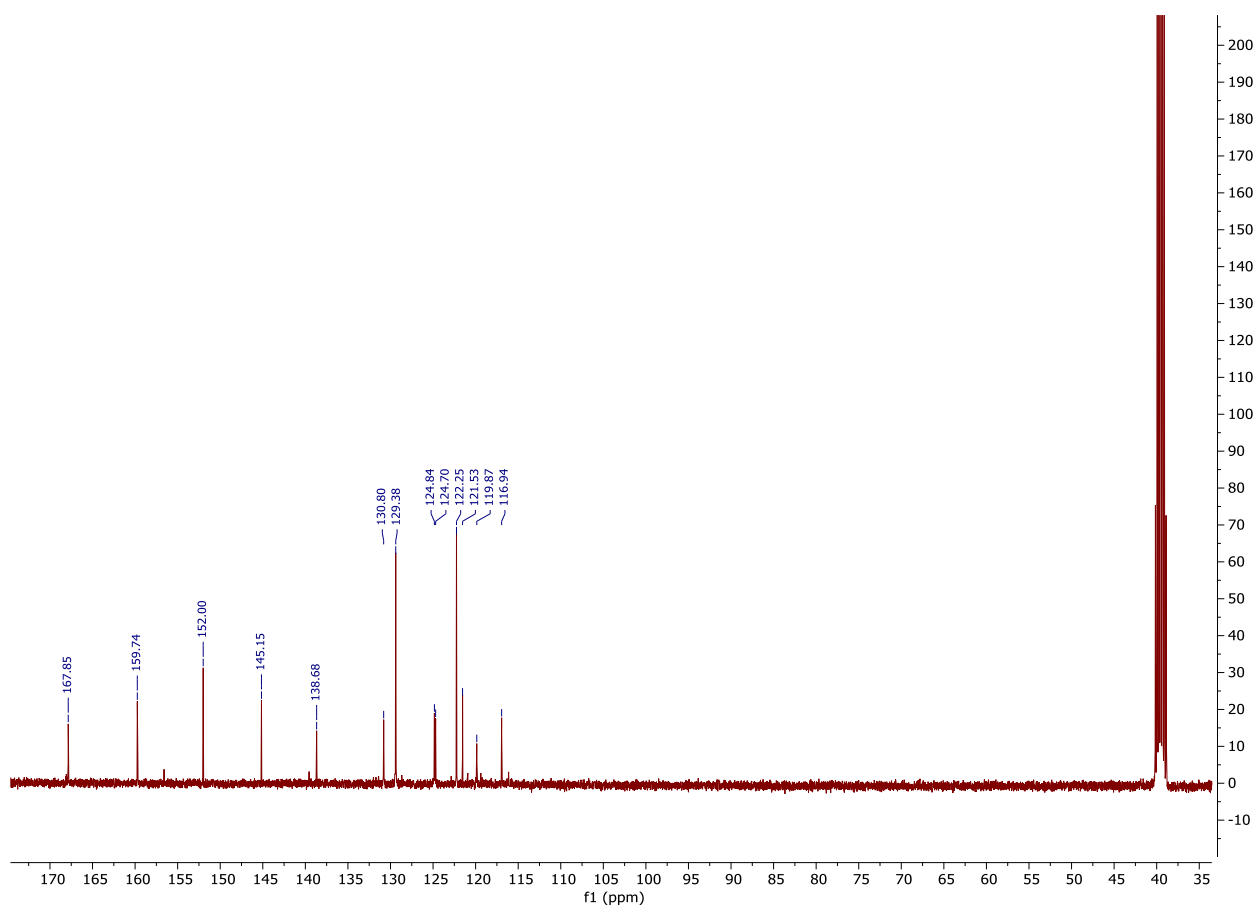


Figure S38 – ^{13}C -NMR spectrum of **3d**

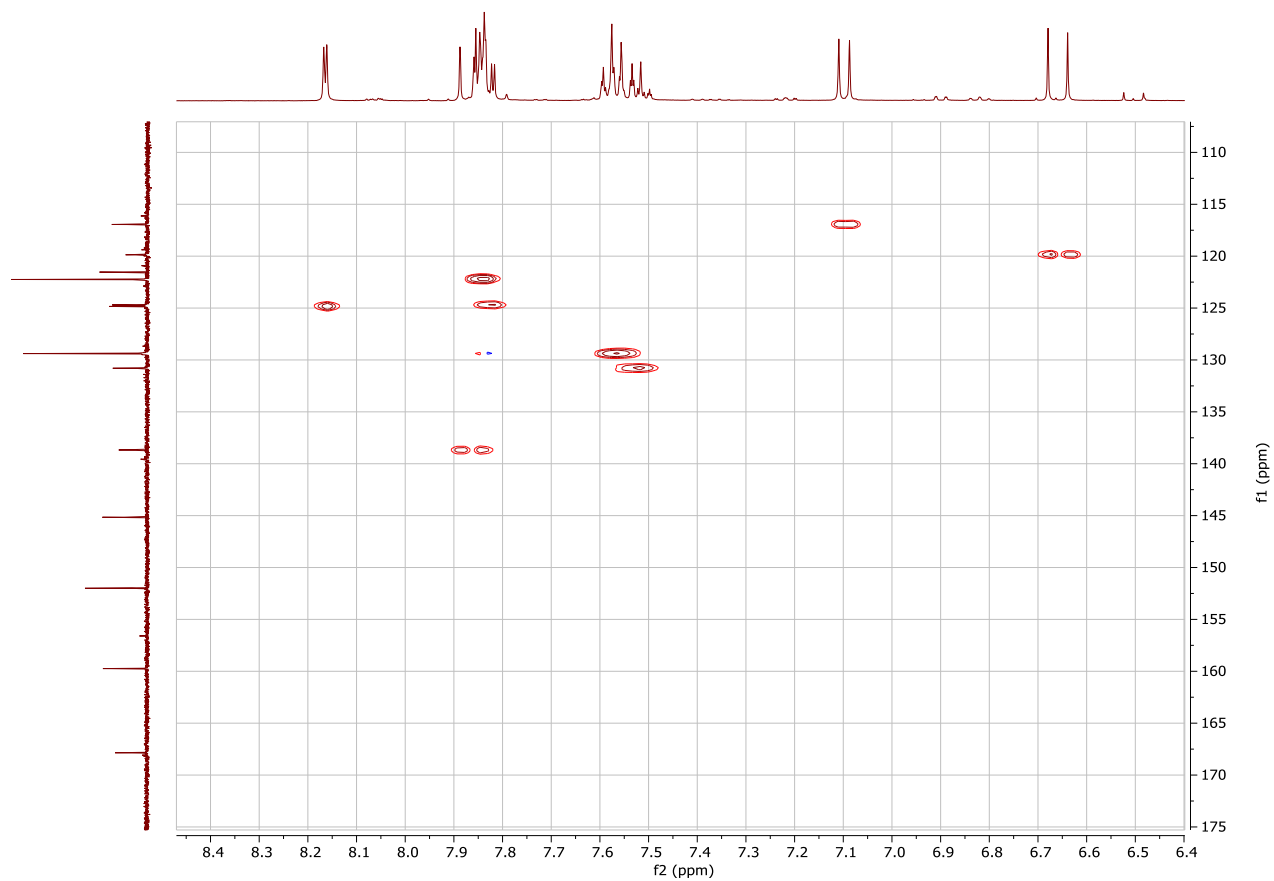


Figure S39 ^1H - ^{13}C HSQC NMR spectrum of **3d**

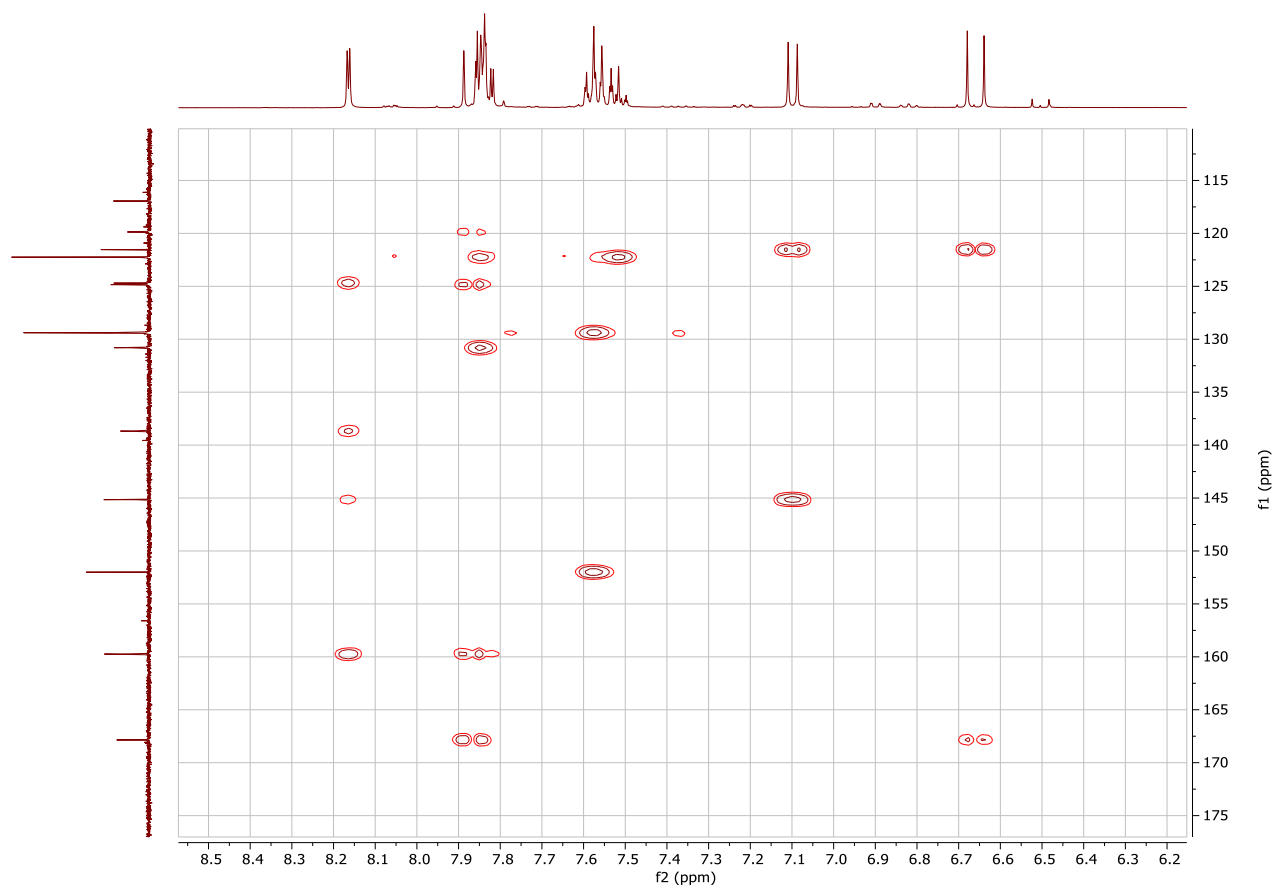


Figure S40 – ^1H - ^{13}C HMBC NMR spectrum of **3d**

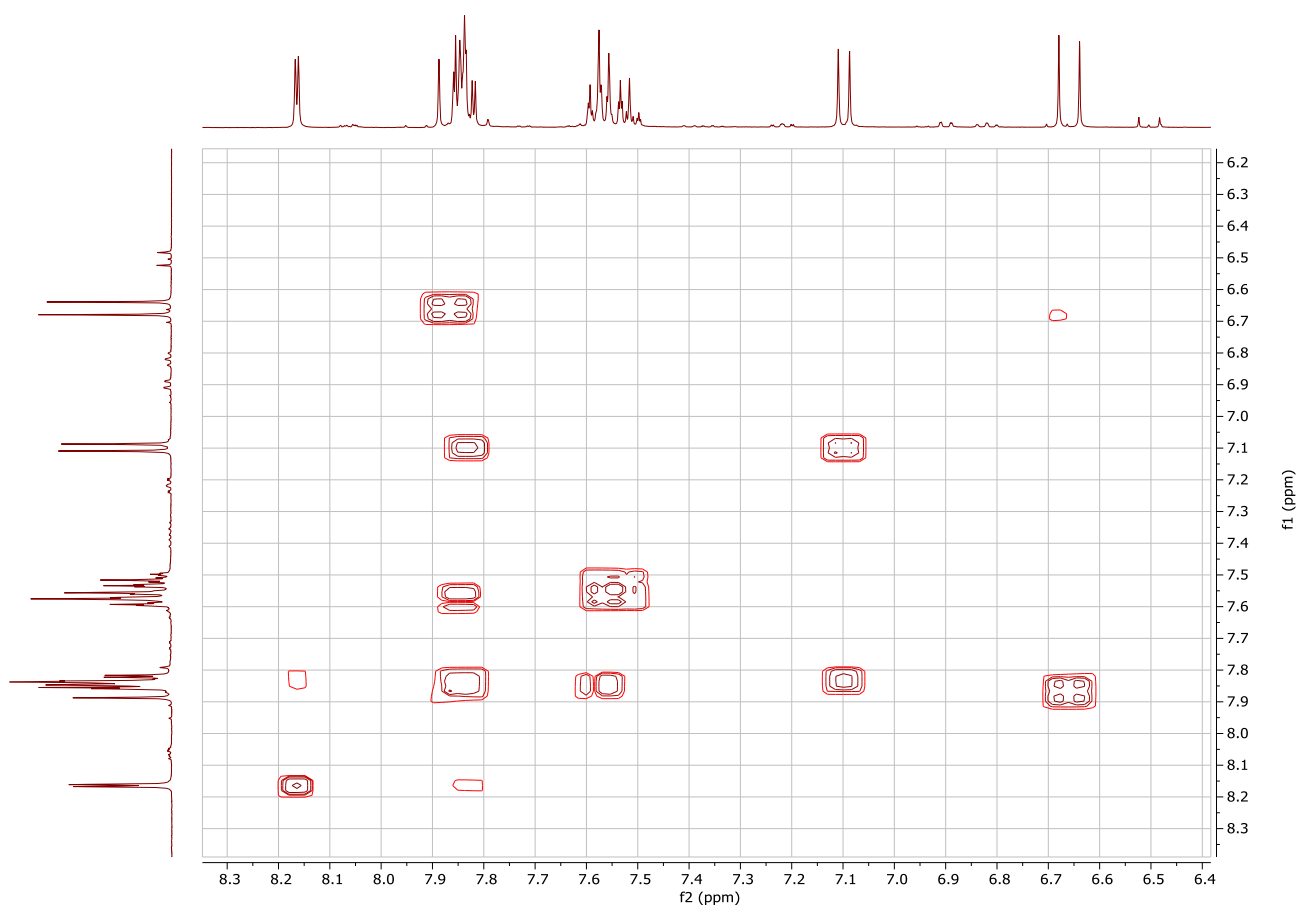


Figure S41 ^1H - ^1H COSY NMR spectrum of **3d**