

Supplementary material

for

**Microwave-assisted stereoselective heterocyclization to novel ring D-fused arylpyrazolines in
the estrone series**

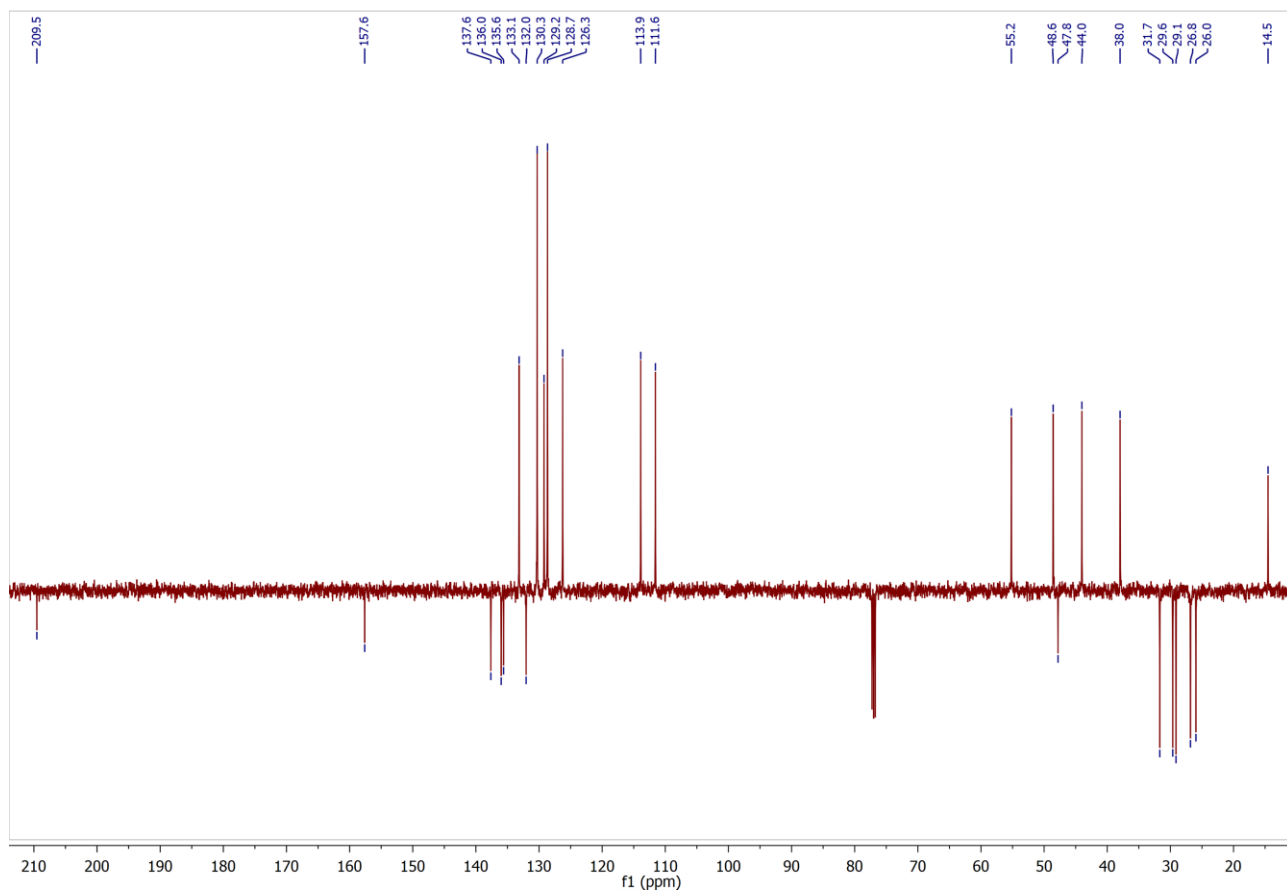
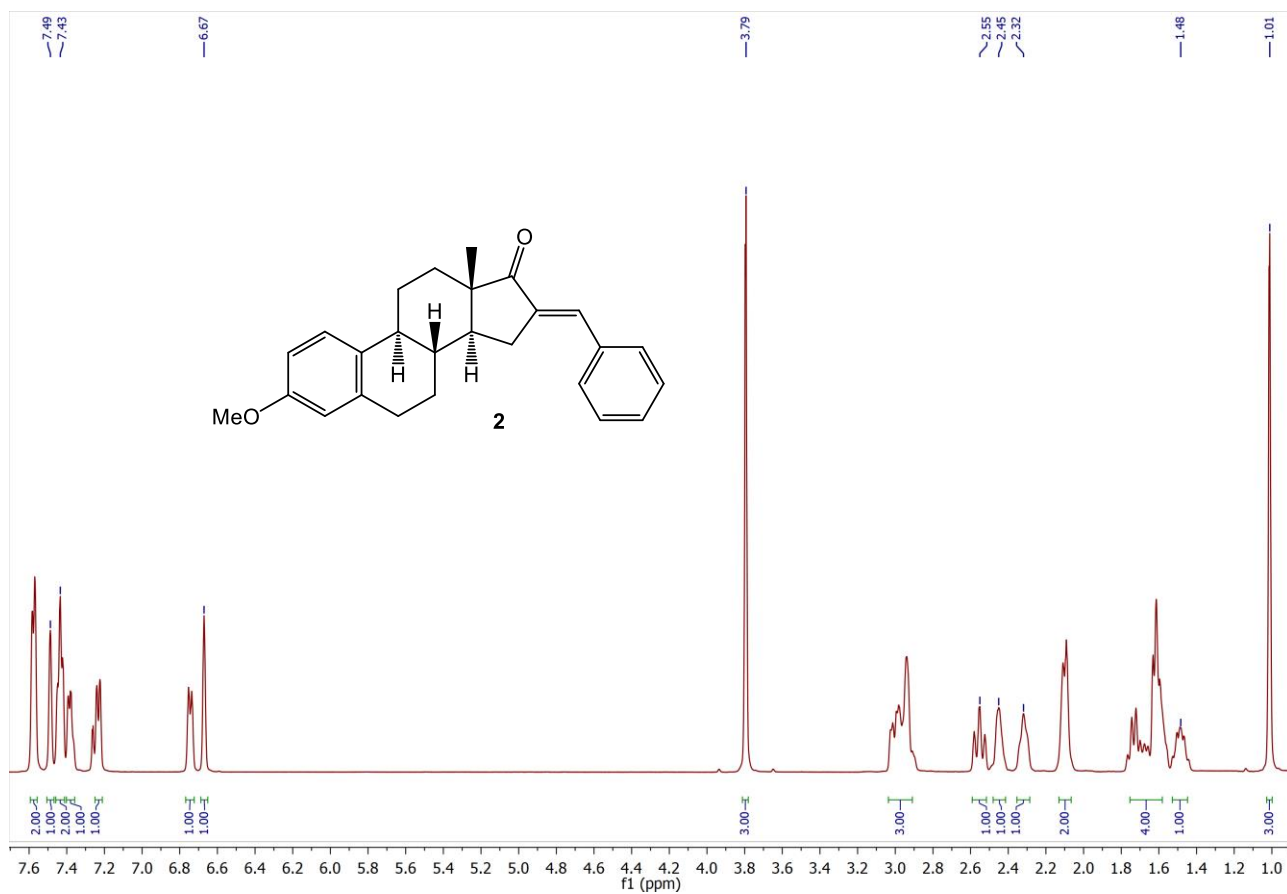
Gergő Mótyán, Barnabás Molnár, János Wölfling, Éva Frank

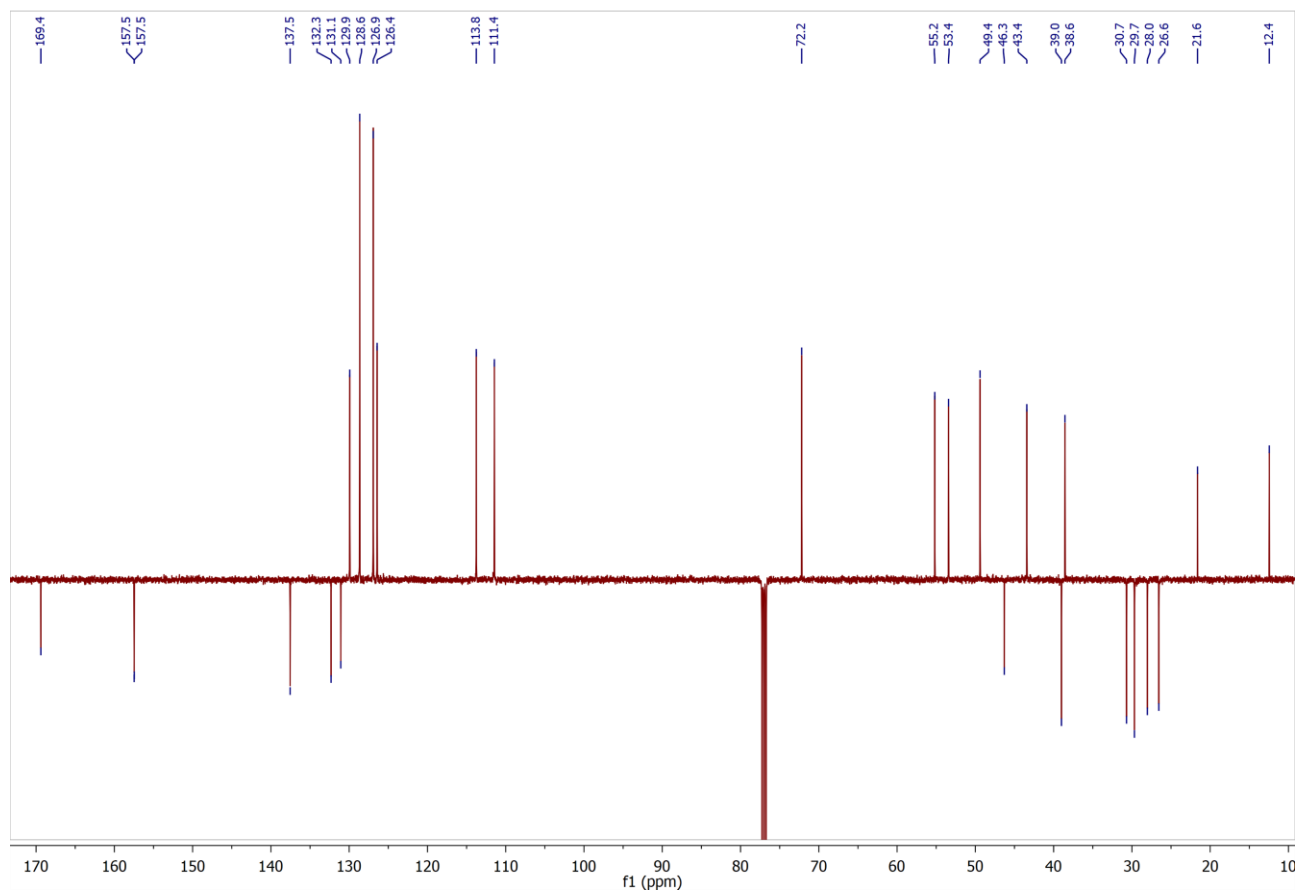
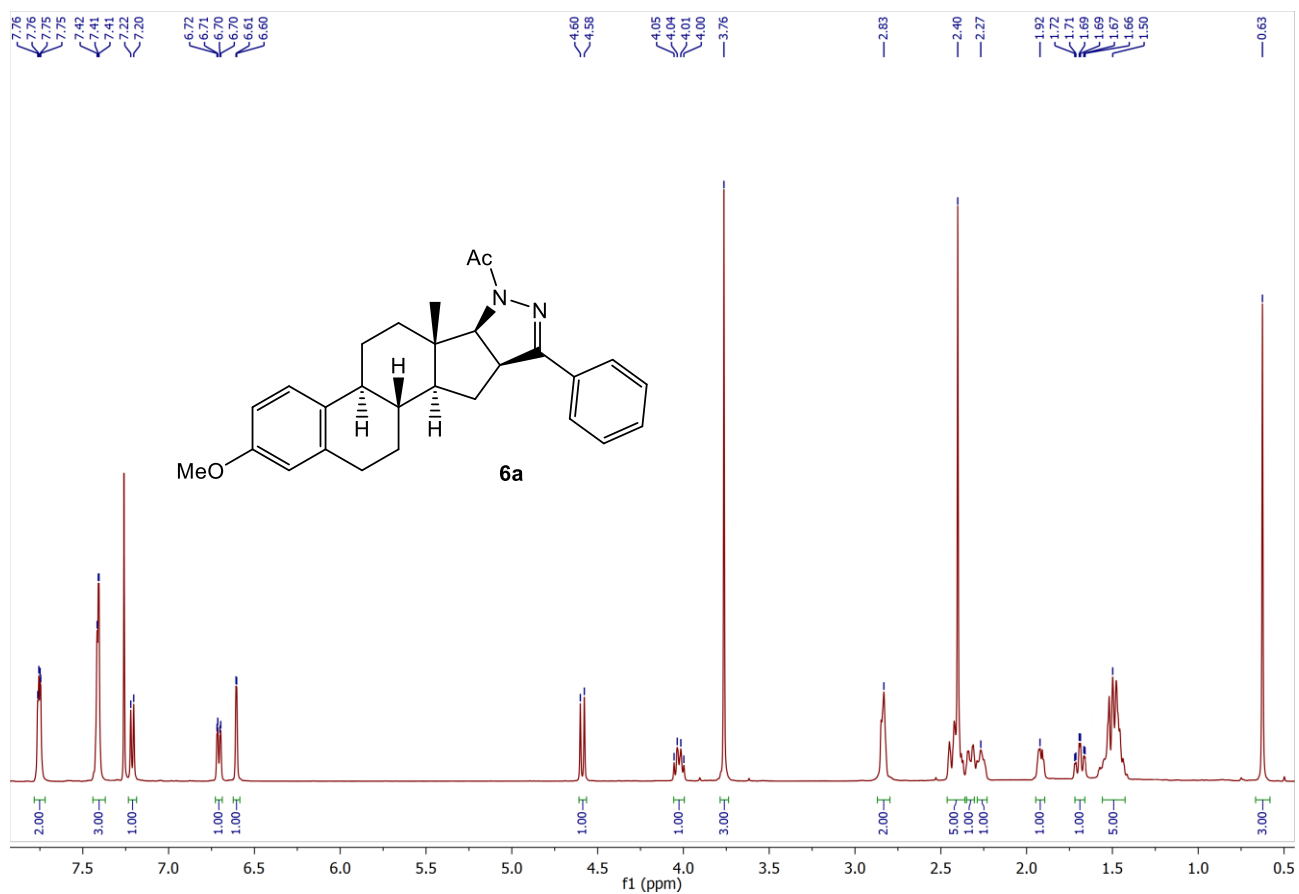
Department of Organic Chemistry, University of Szeged, Dóm tér 8, H-6720 Szeged, Hungary

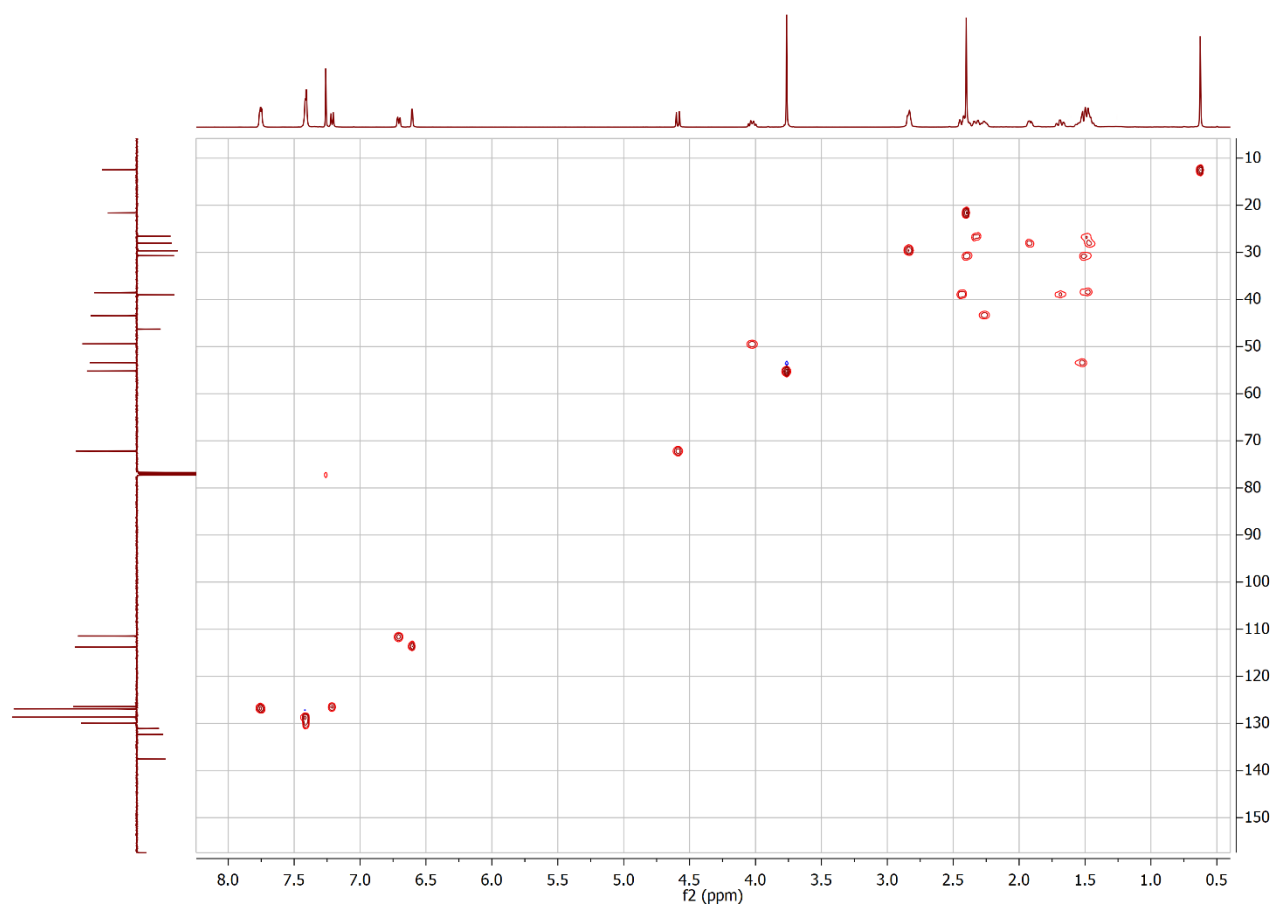
*Corresponding author. E-mail address: frank@chem.u-szeged.hu

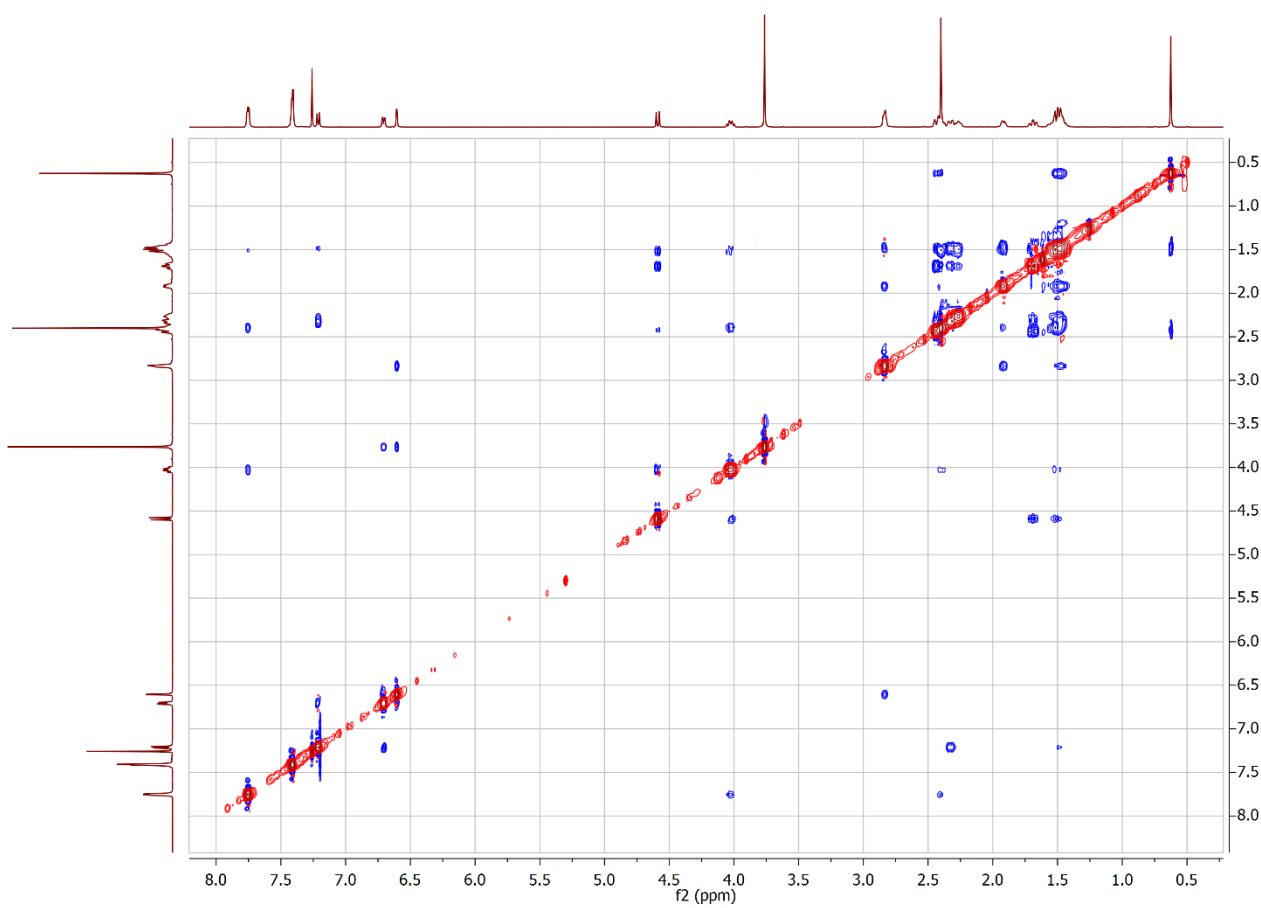
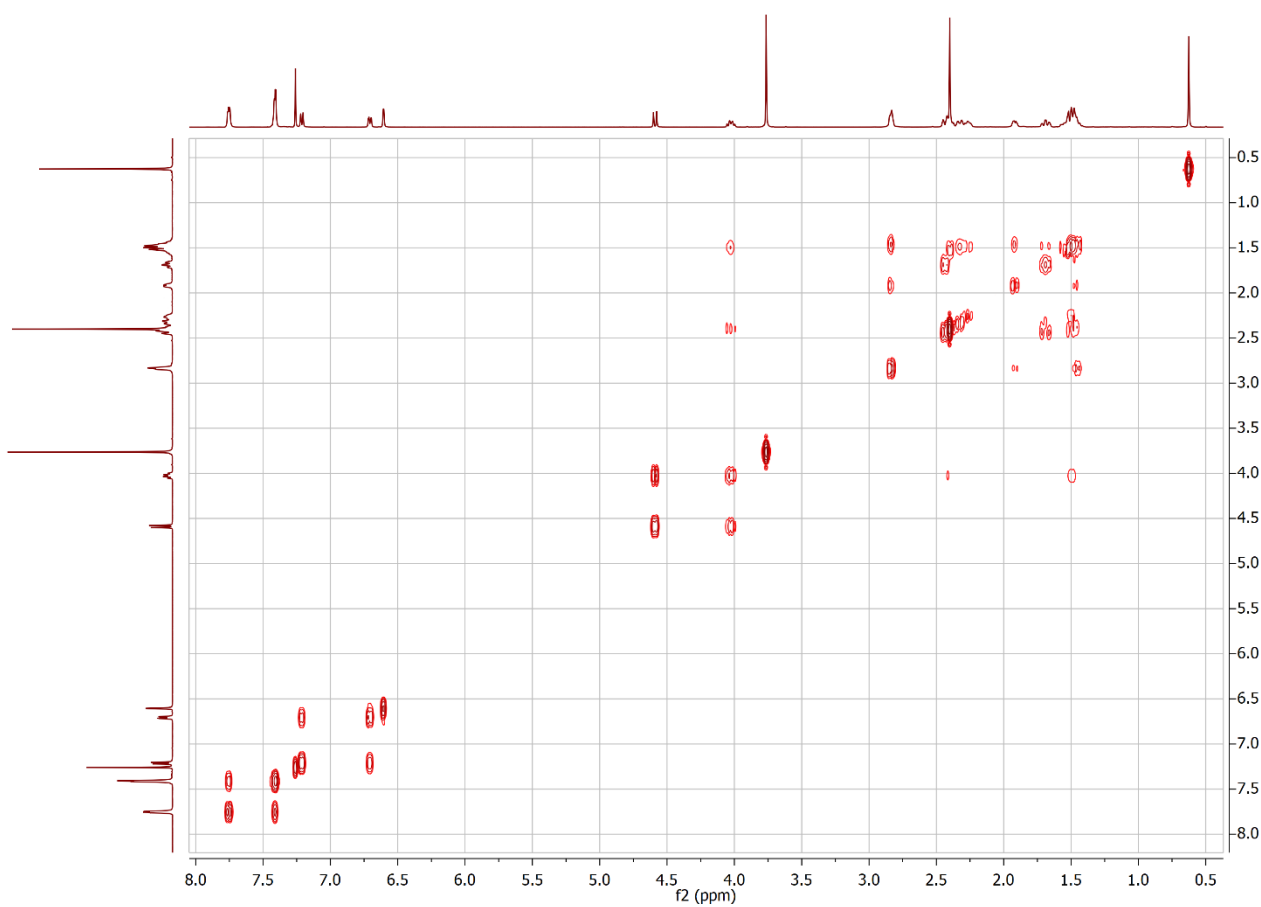
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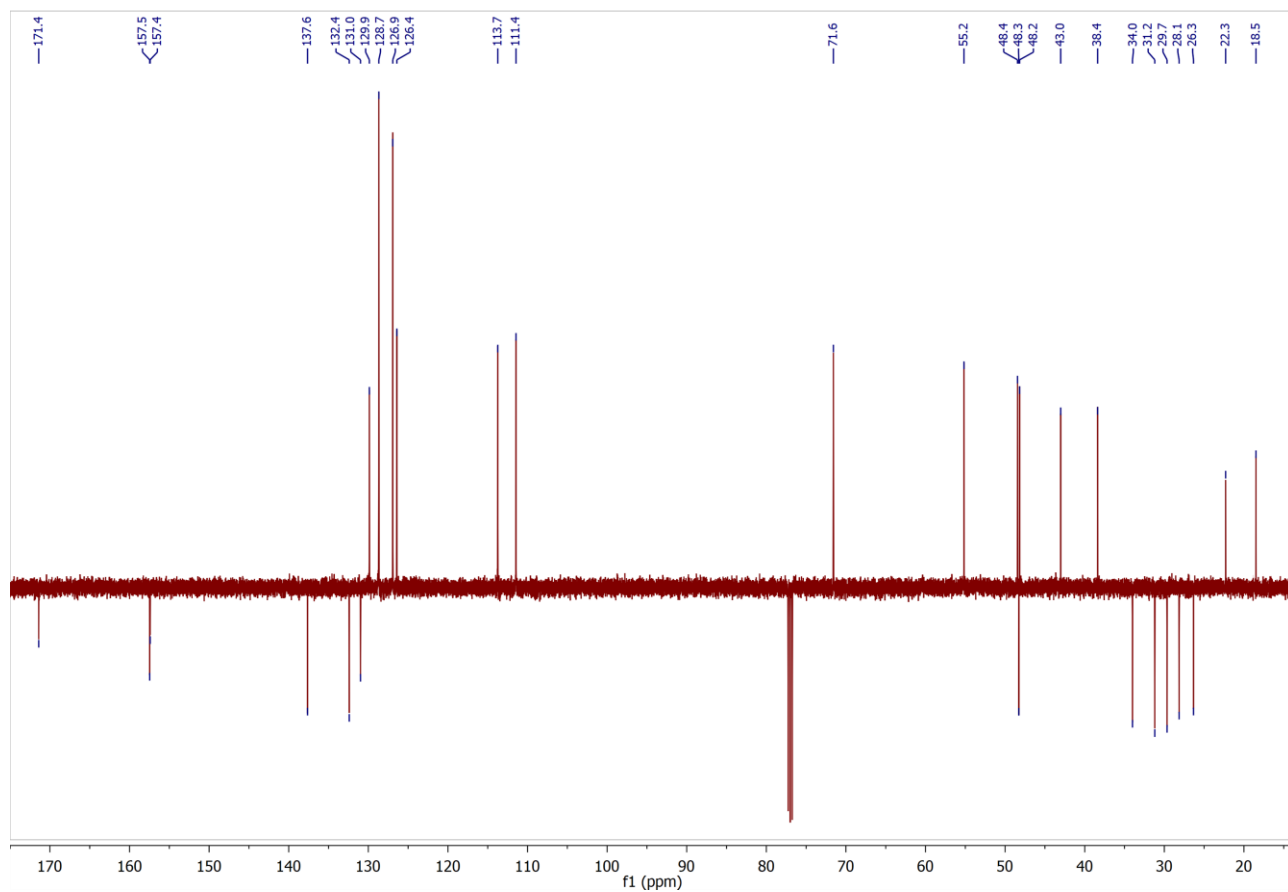
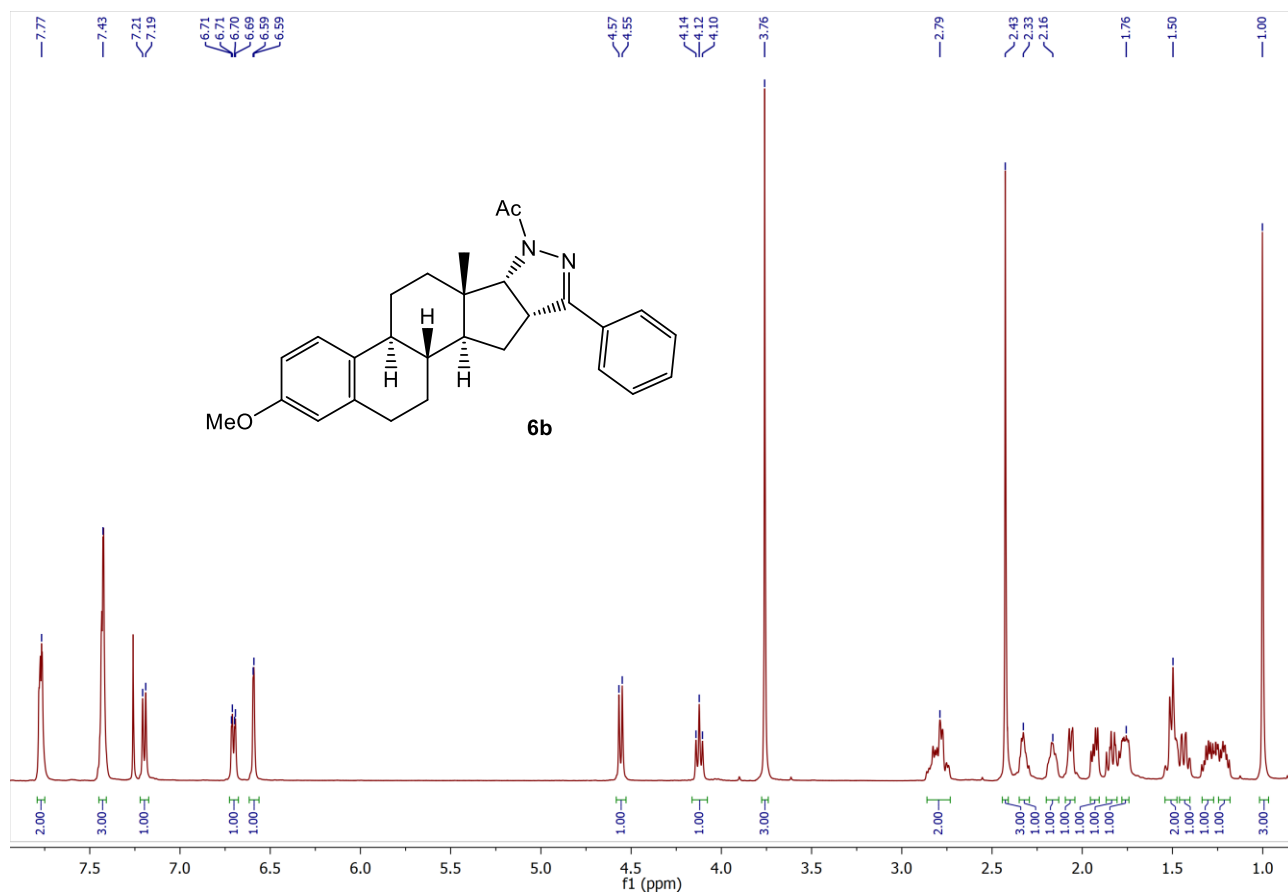
Spectral data (^1H NMR, ^{13}C NMR, and 2D NMR) of the synthesized compounds.	S2-S22
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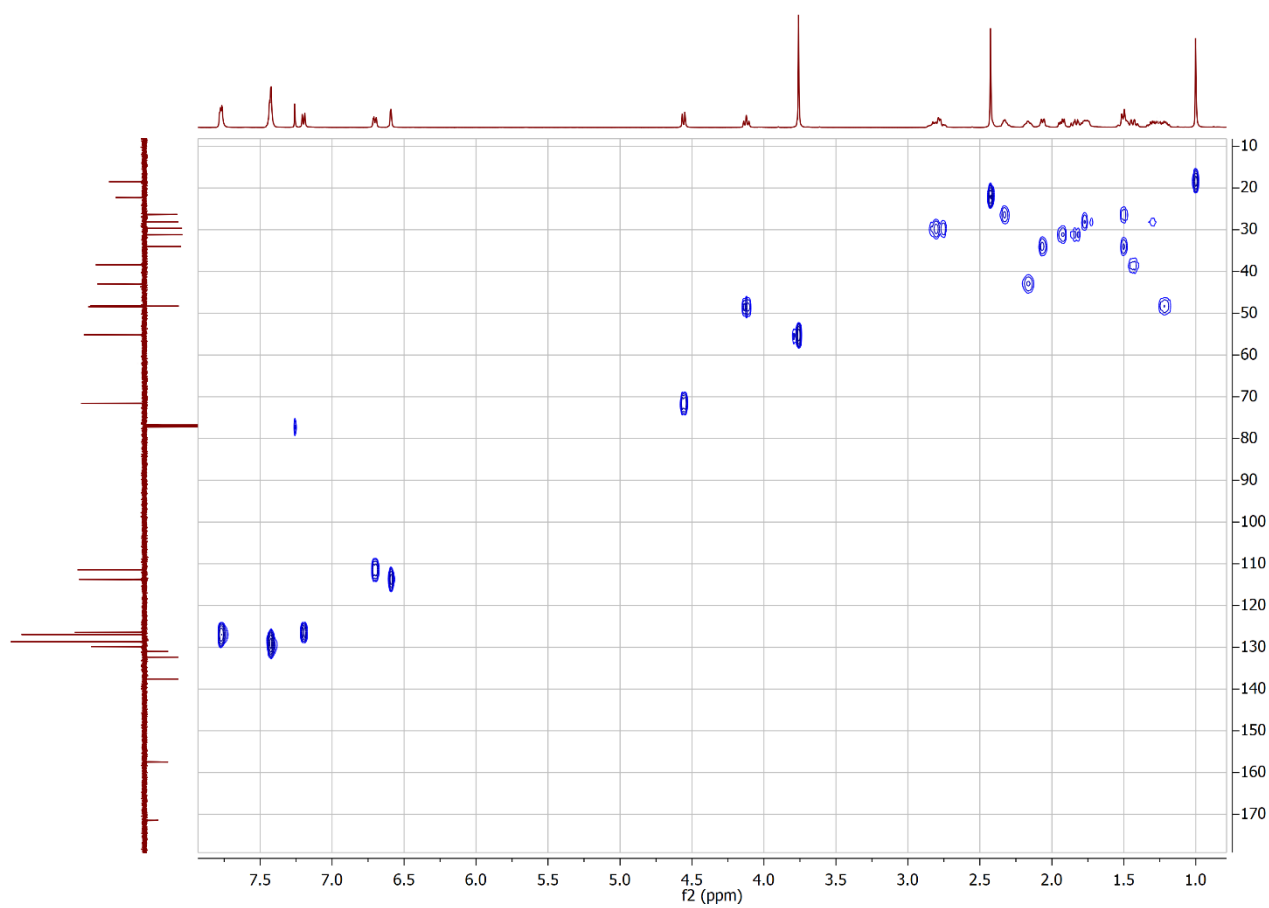
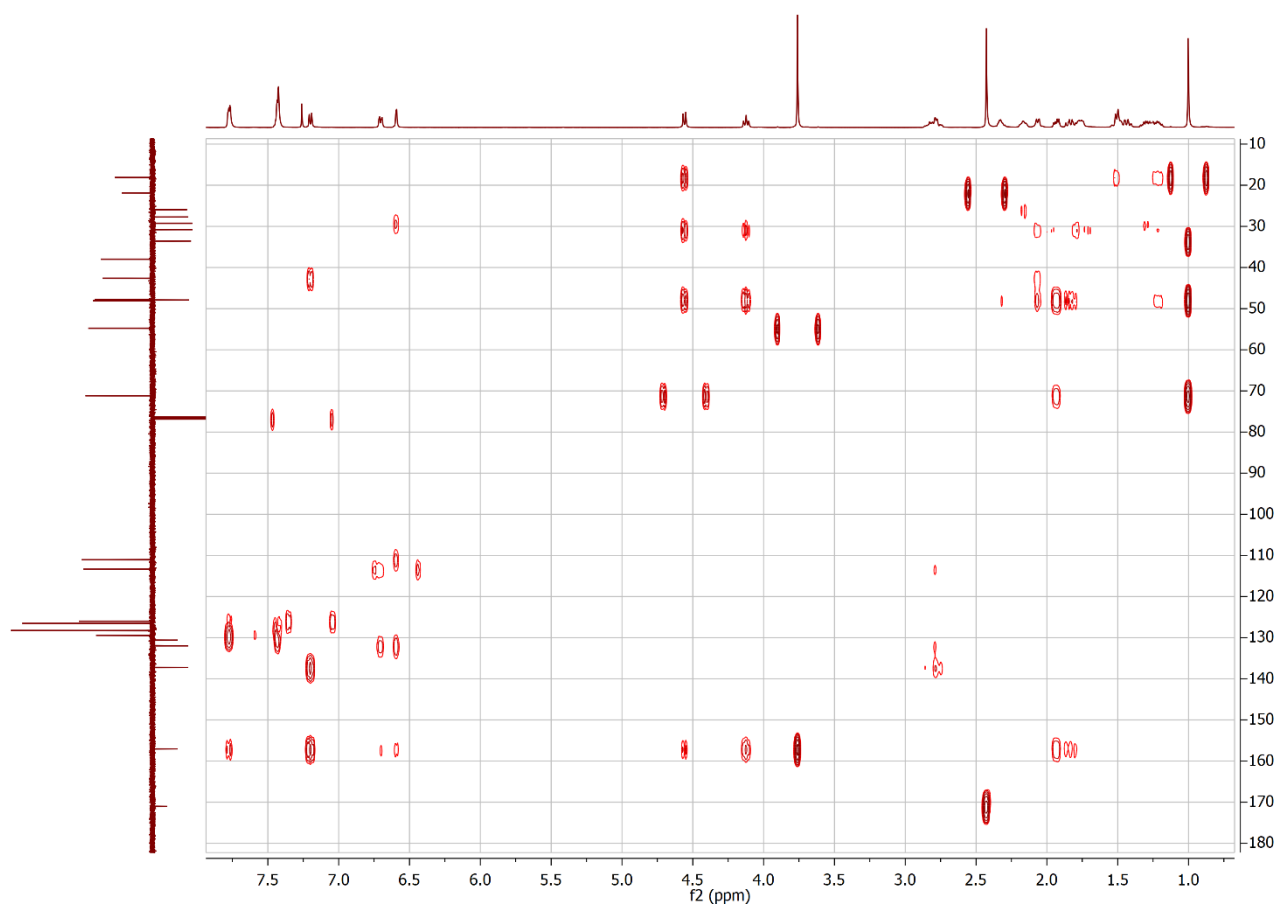


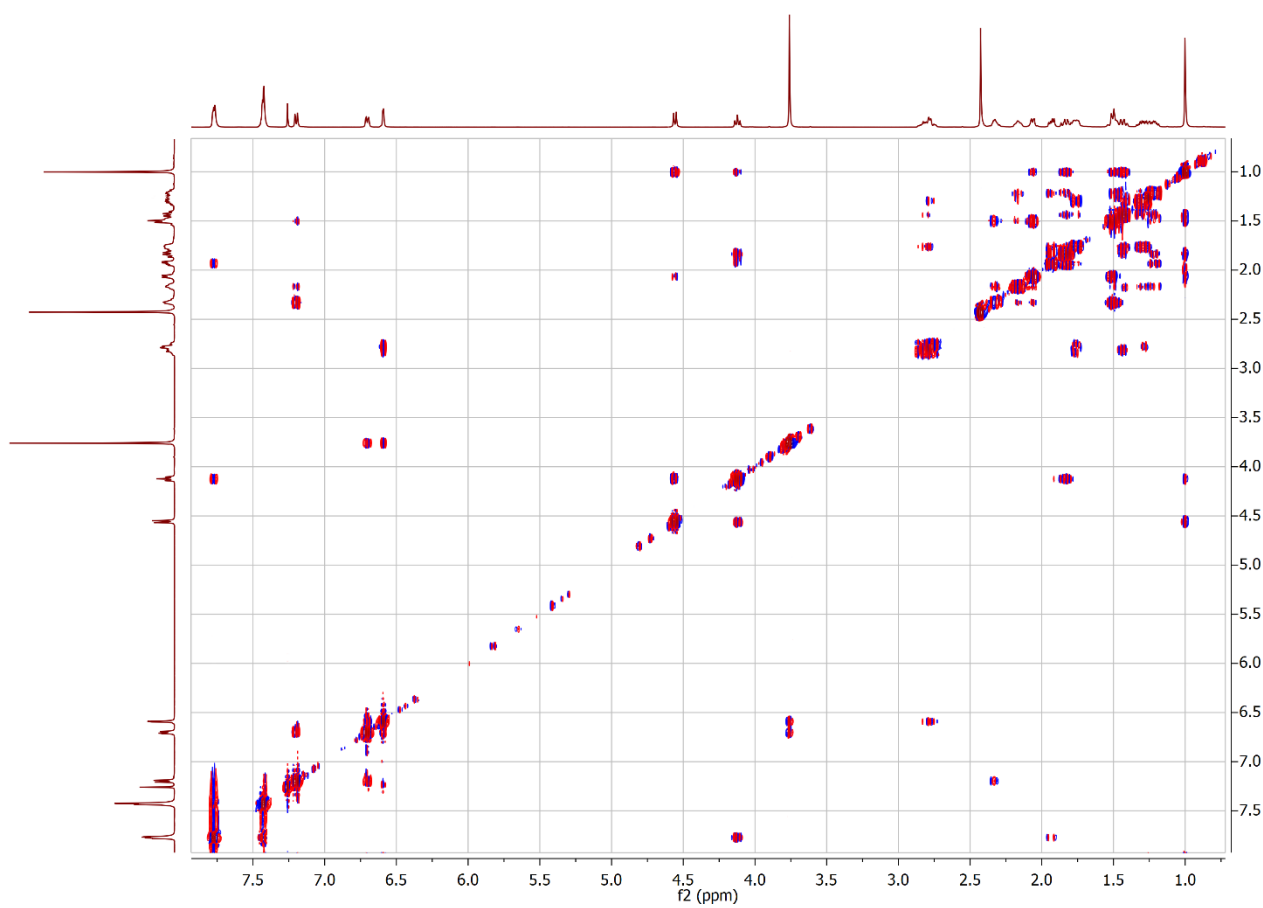
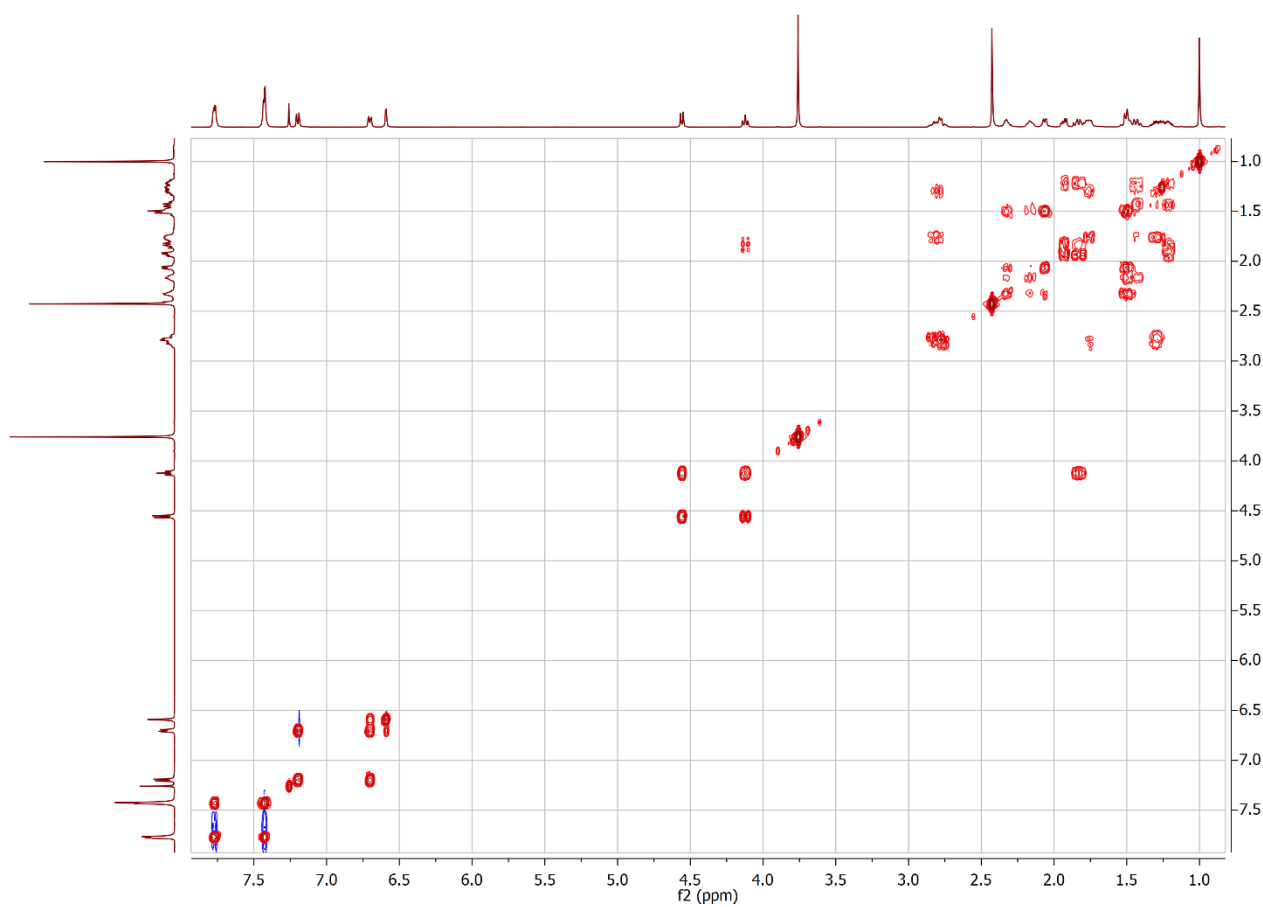


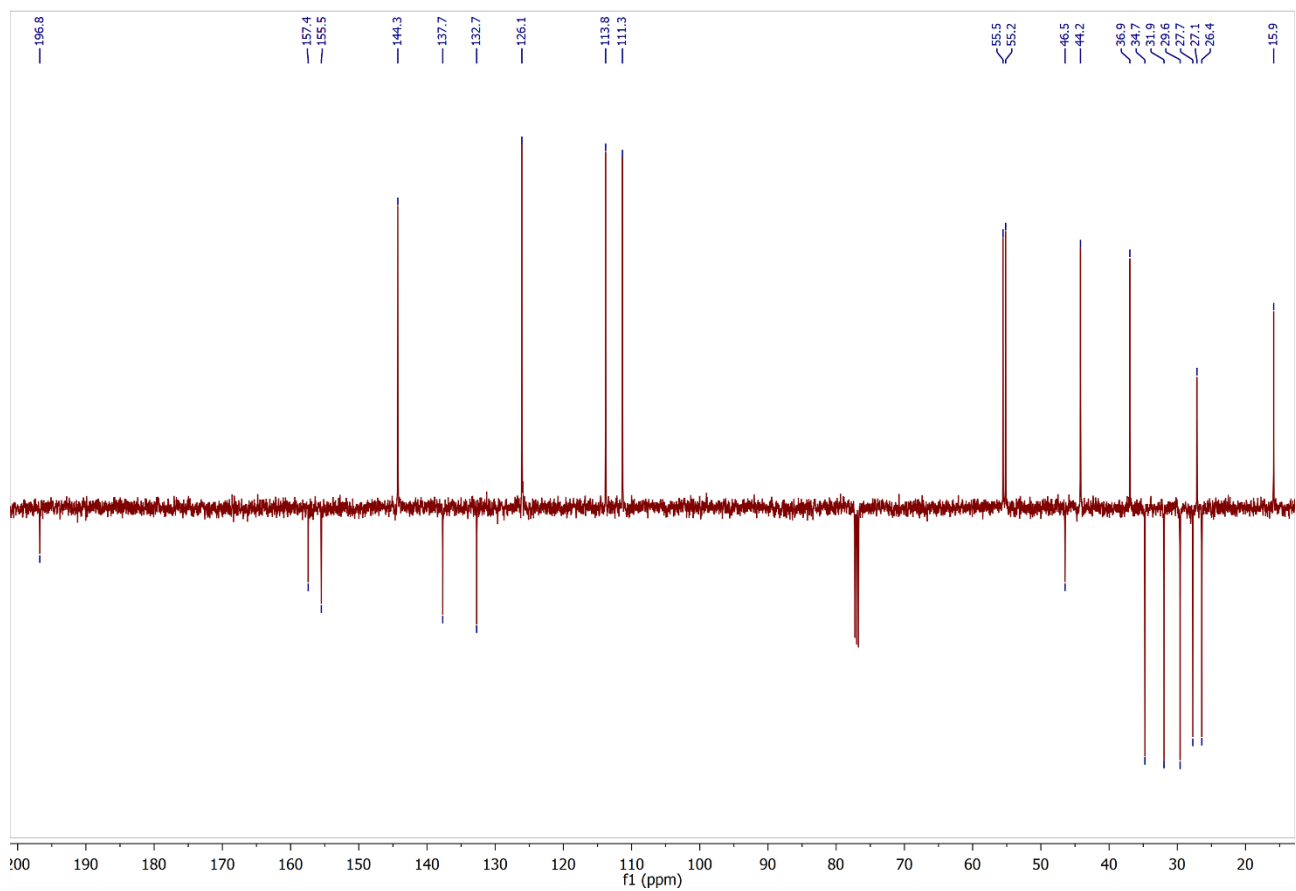
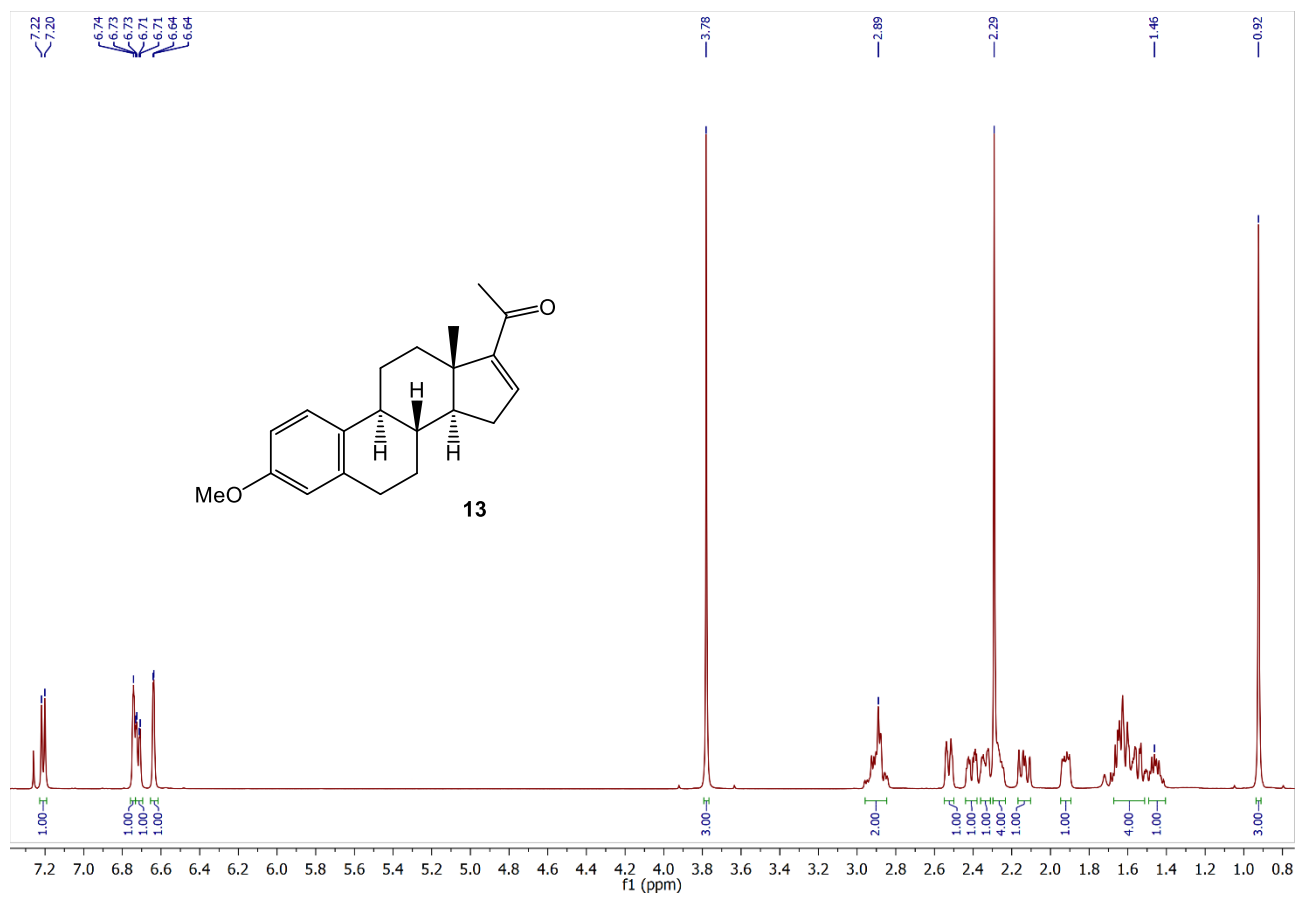
HSQC spectrum of **6a**HMBC spectrum of **6a**

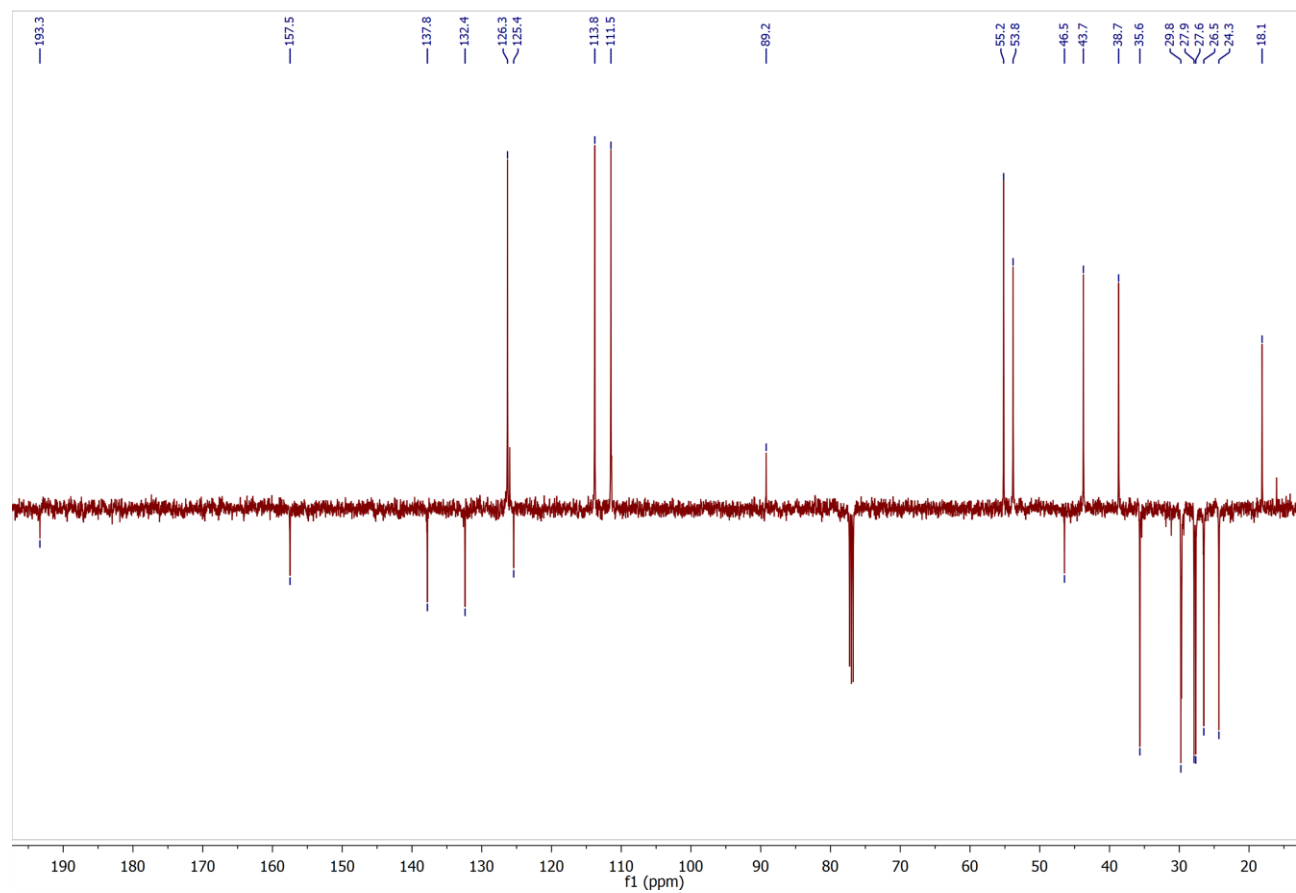
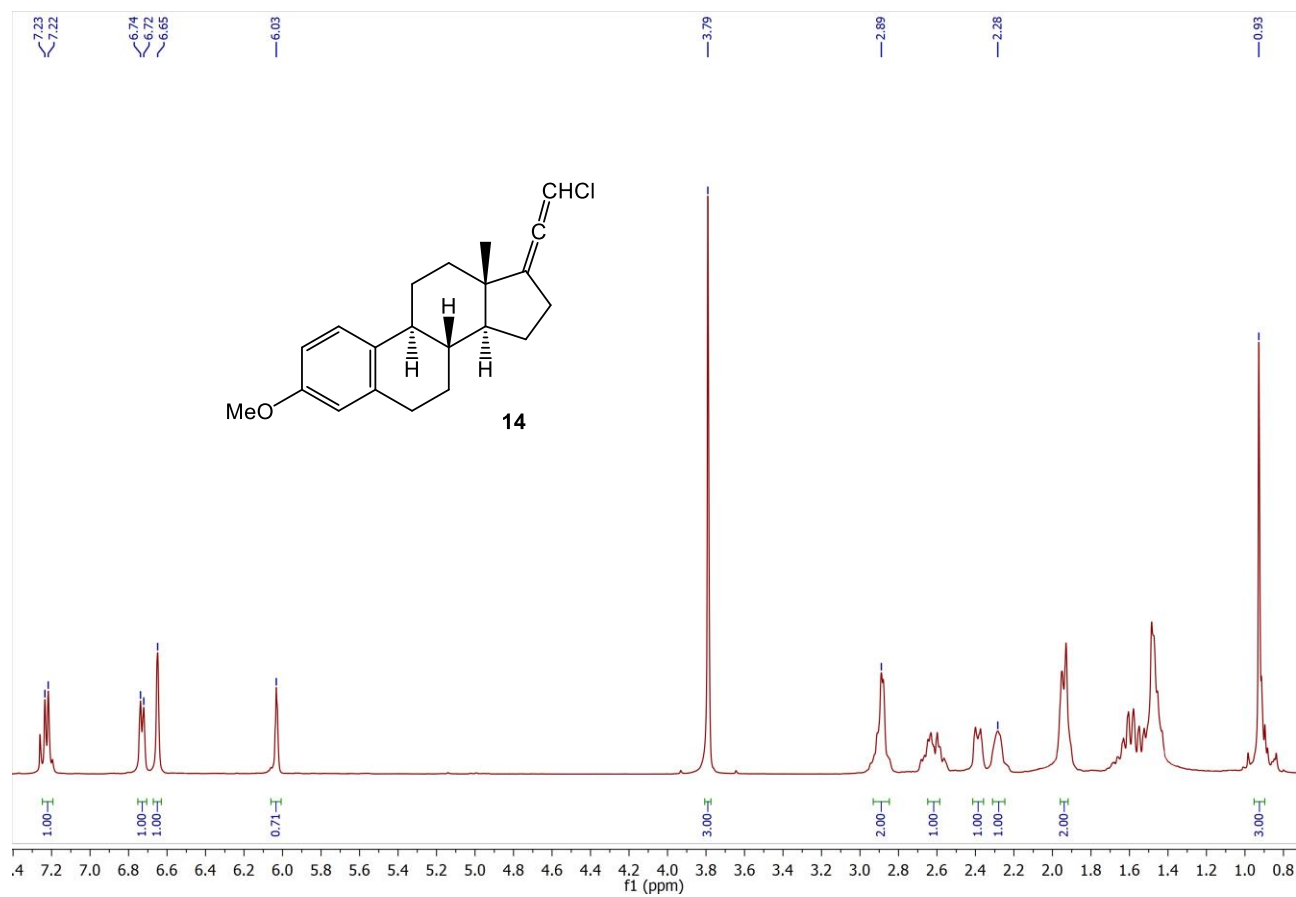
NOESY spectrum of **6a**COSY spectrum of **6a**

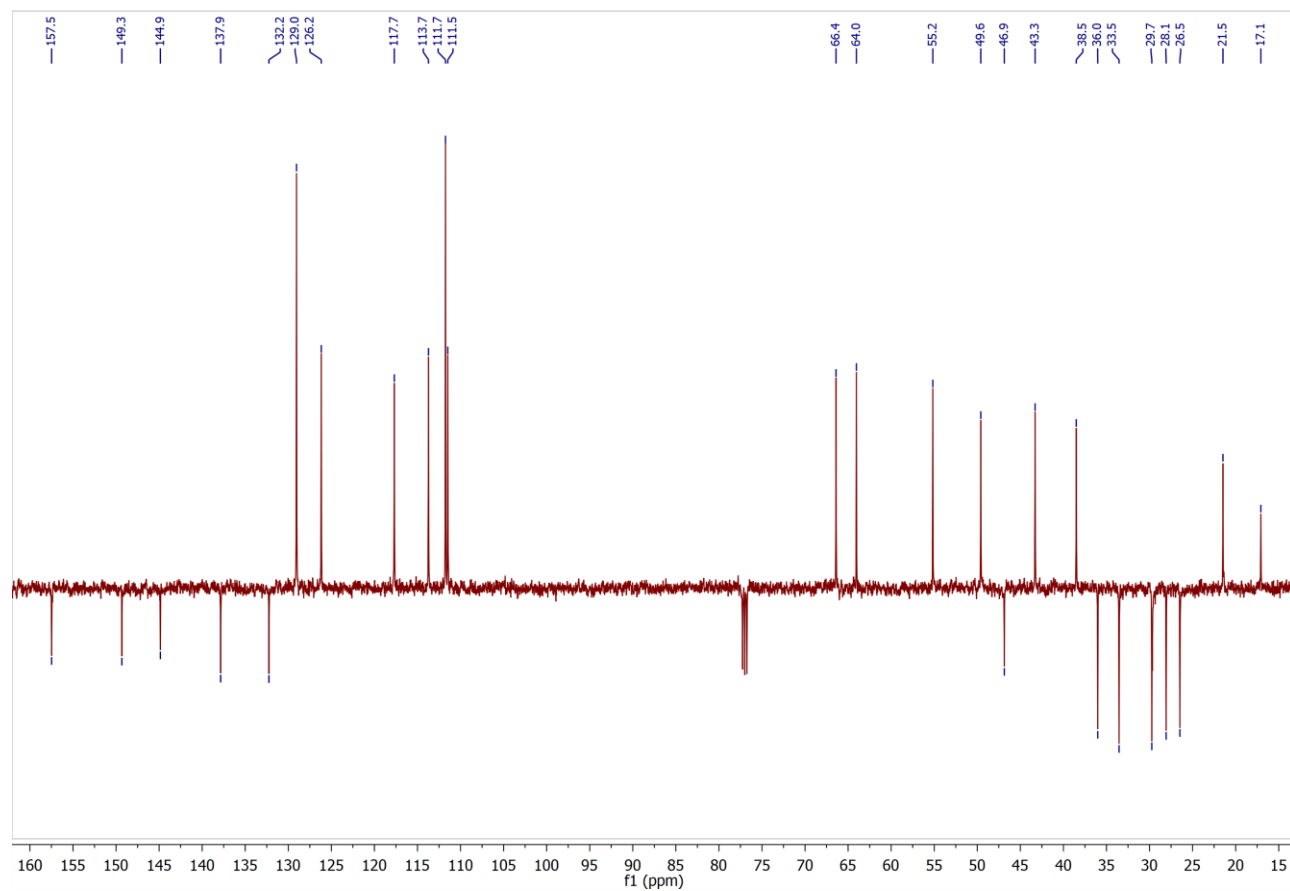
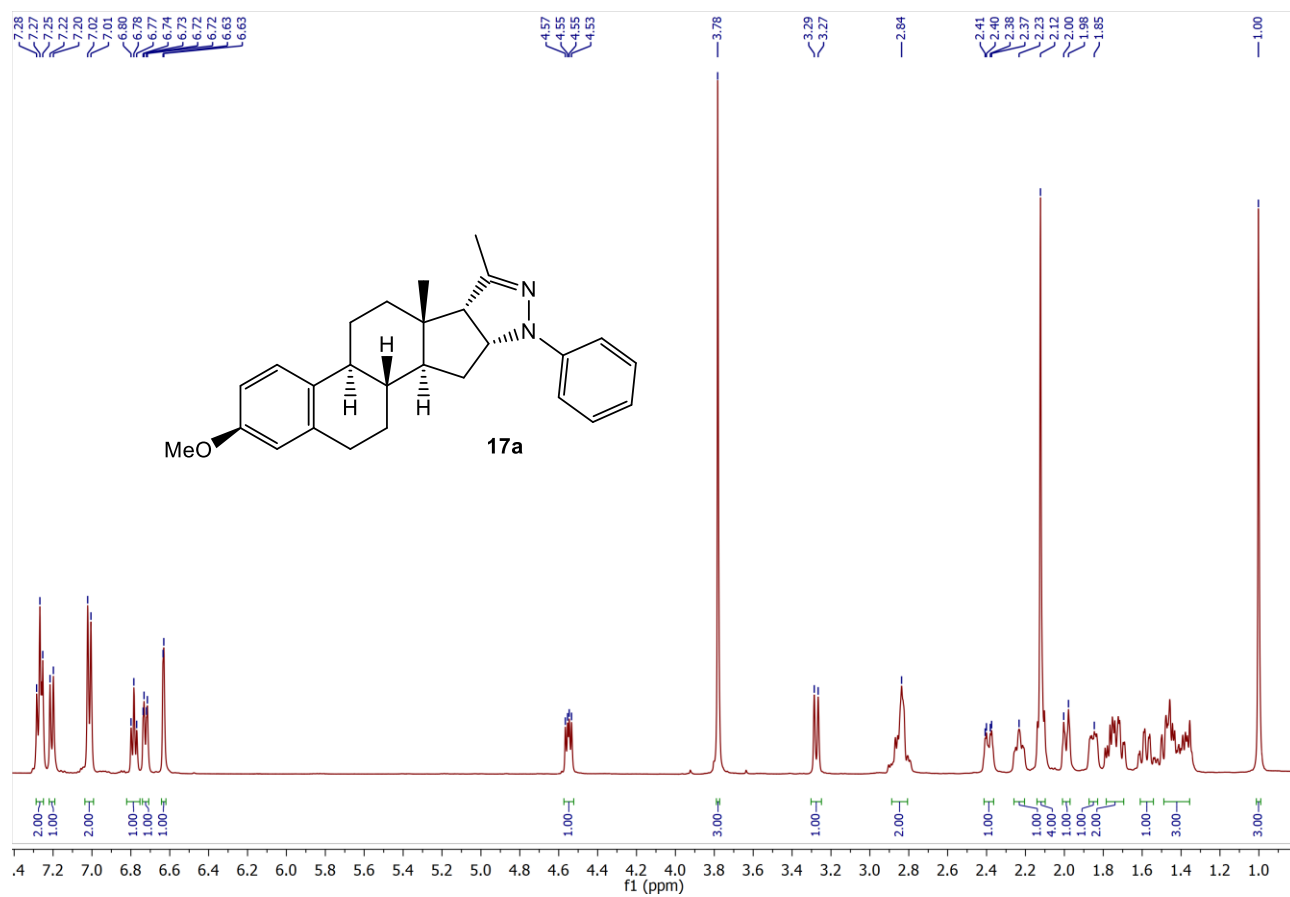


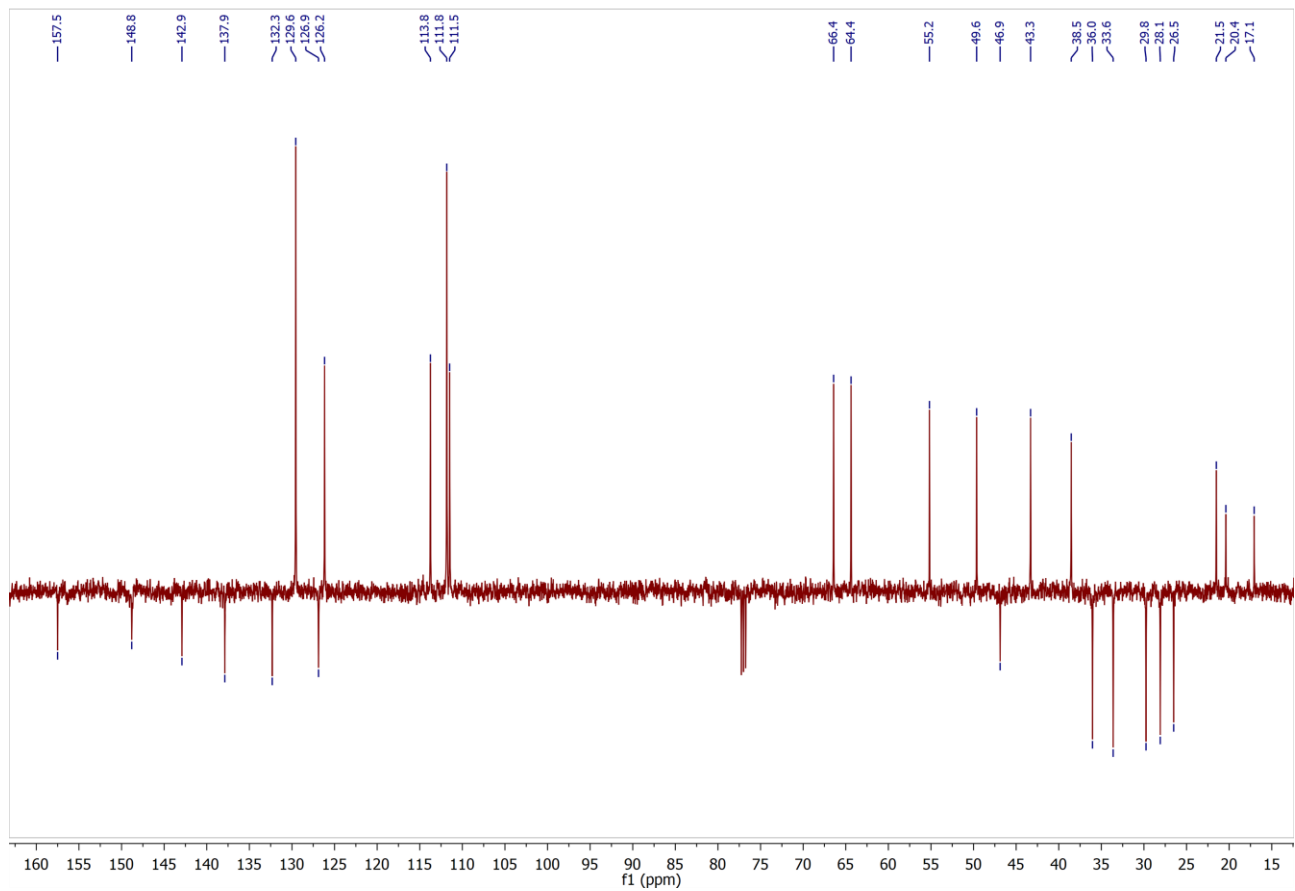
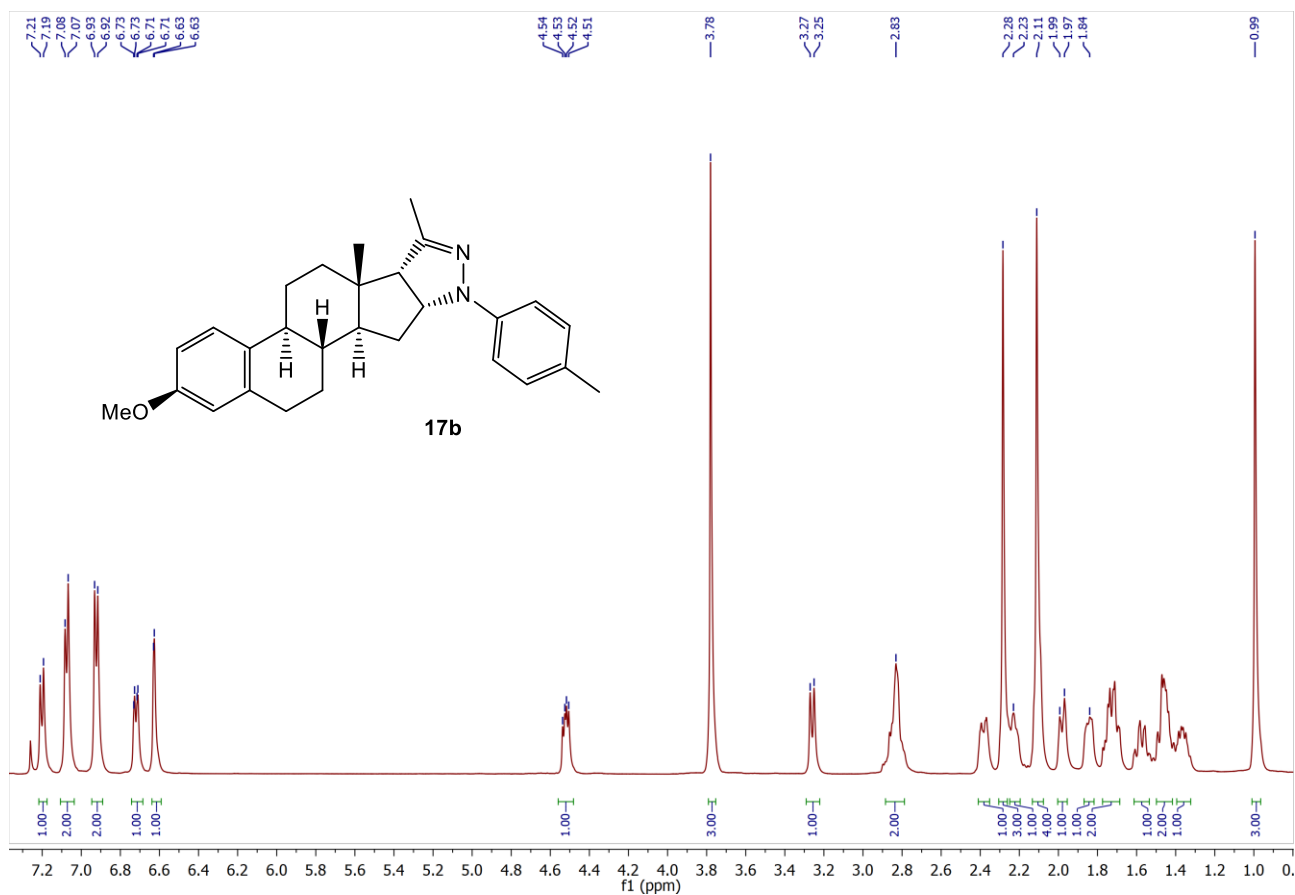
HSQC spectrum of **6b**HMBC spectrum of **6b**

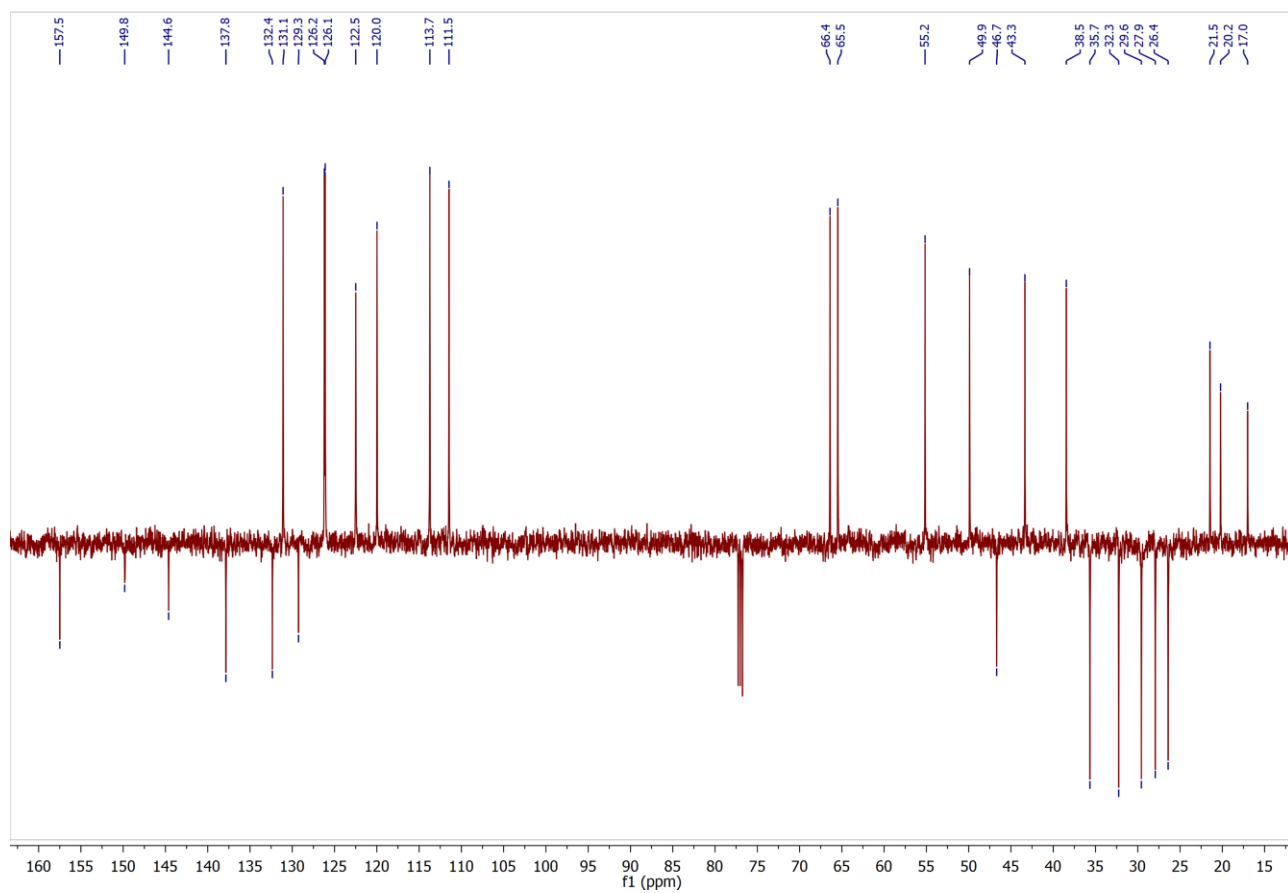
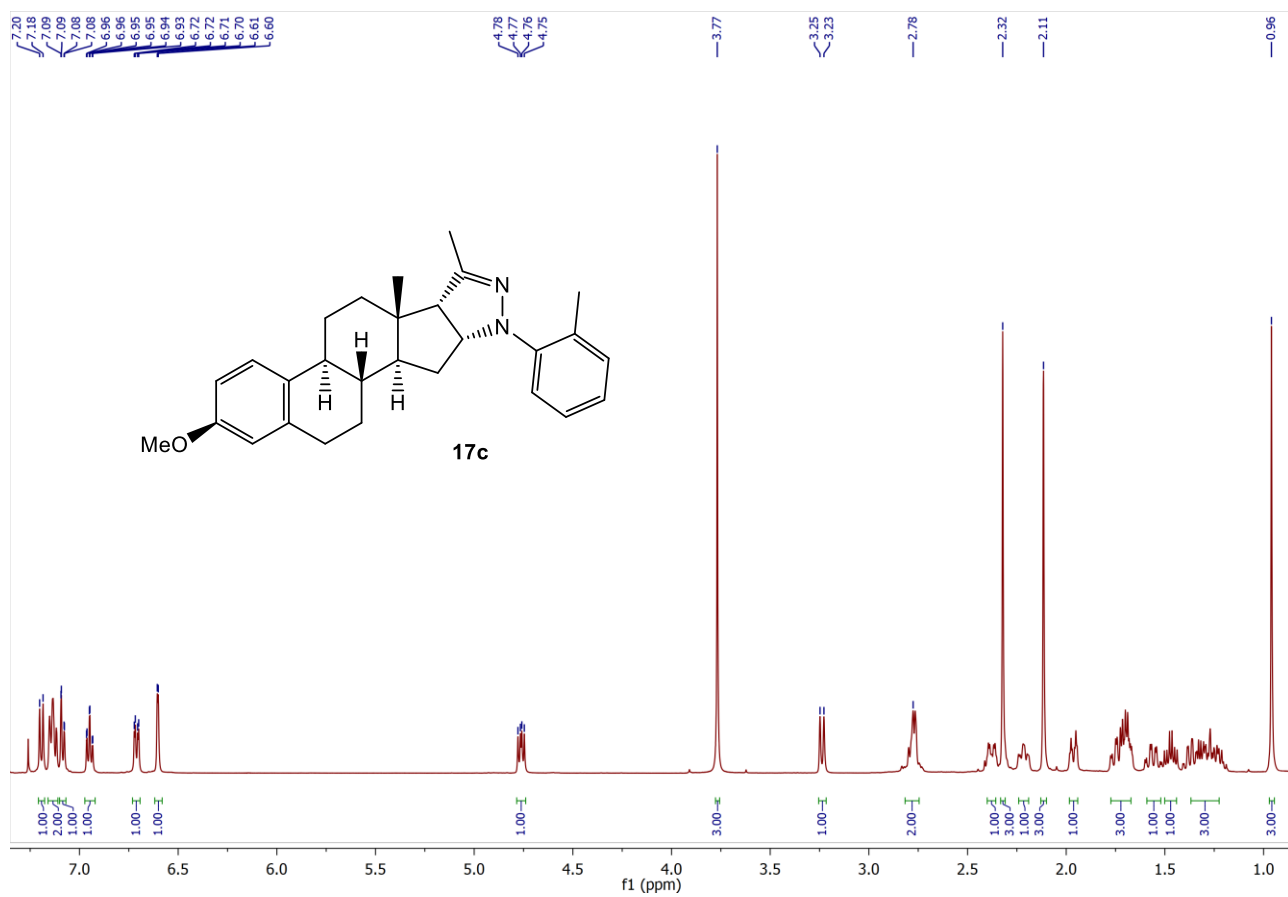
NOESY spectrum of **6b**COSY spectrum of **6b**

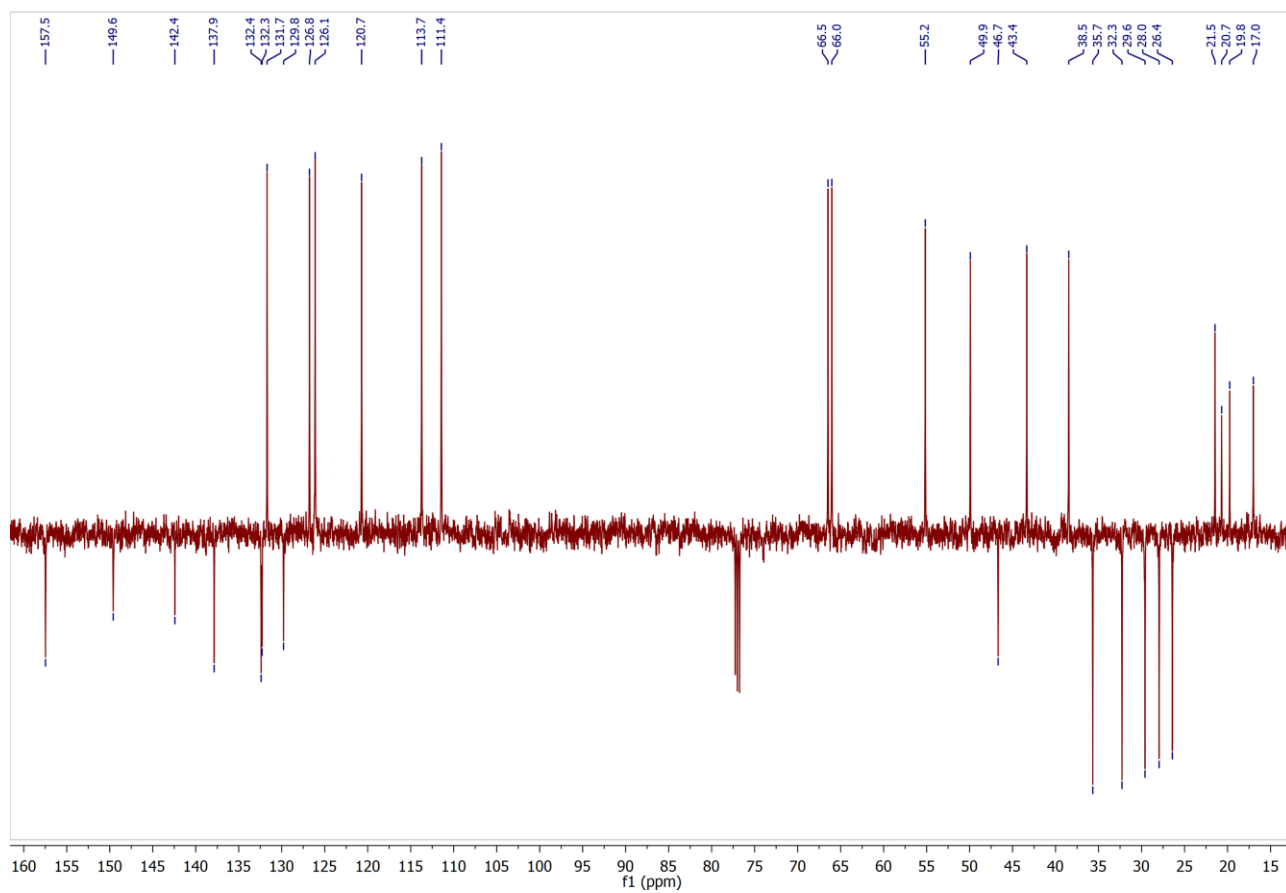
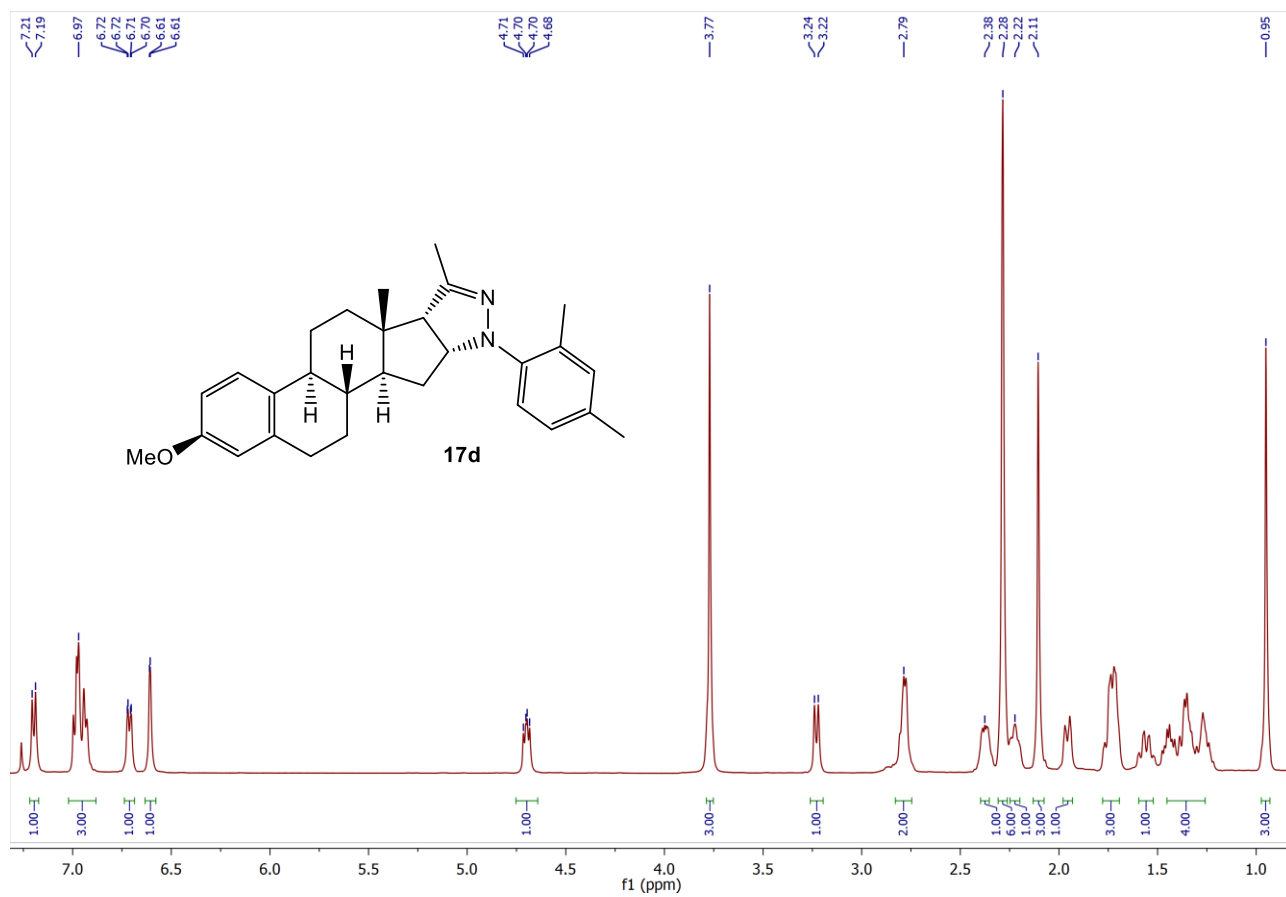


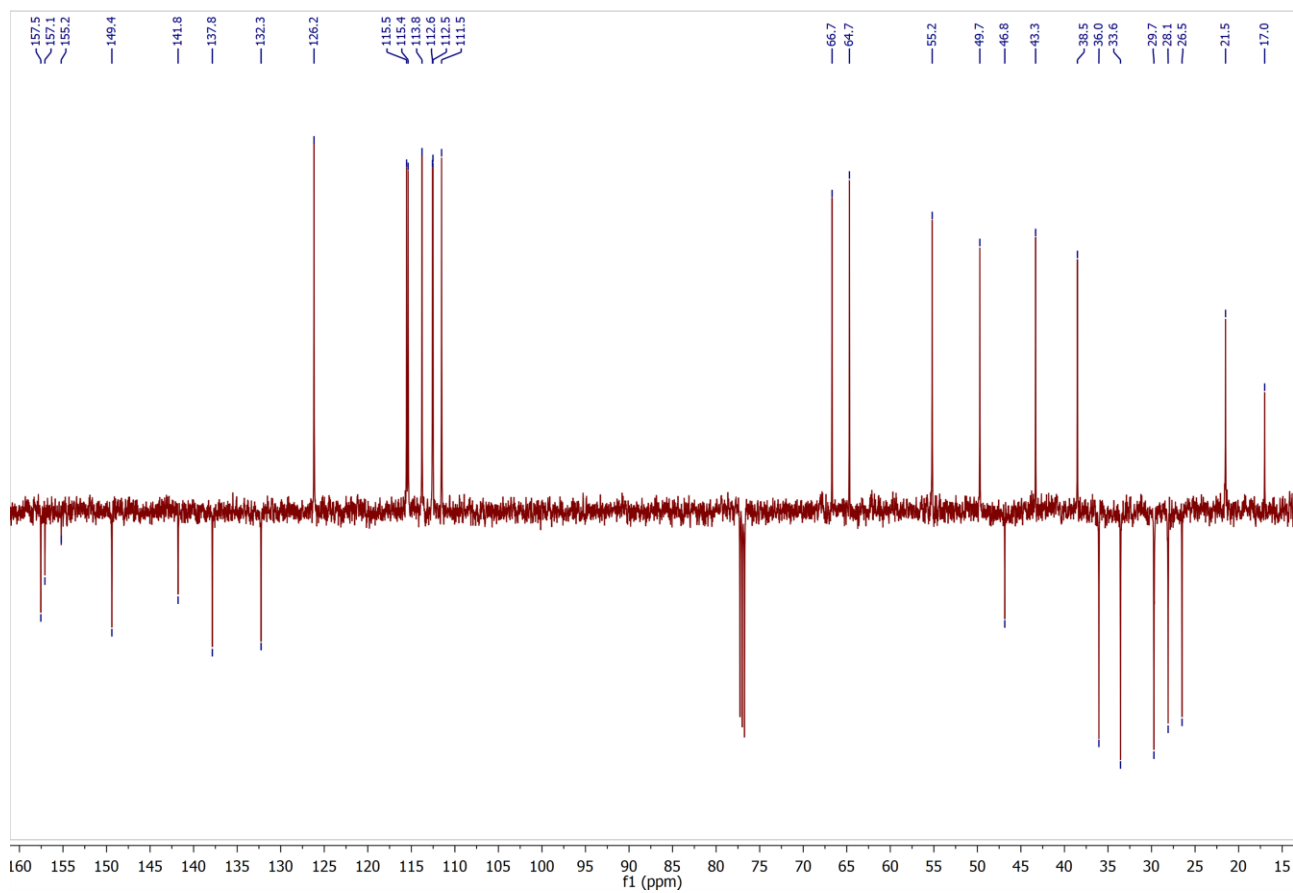
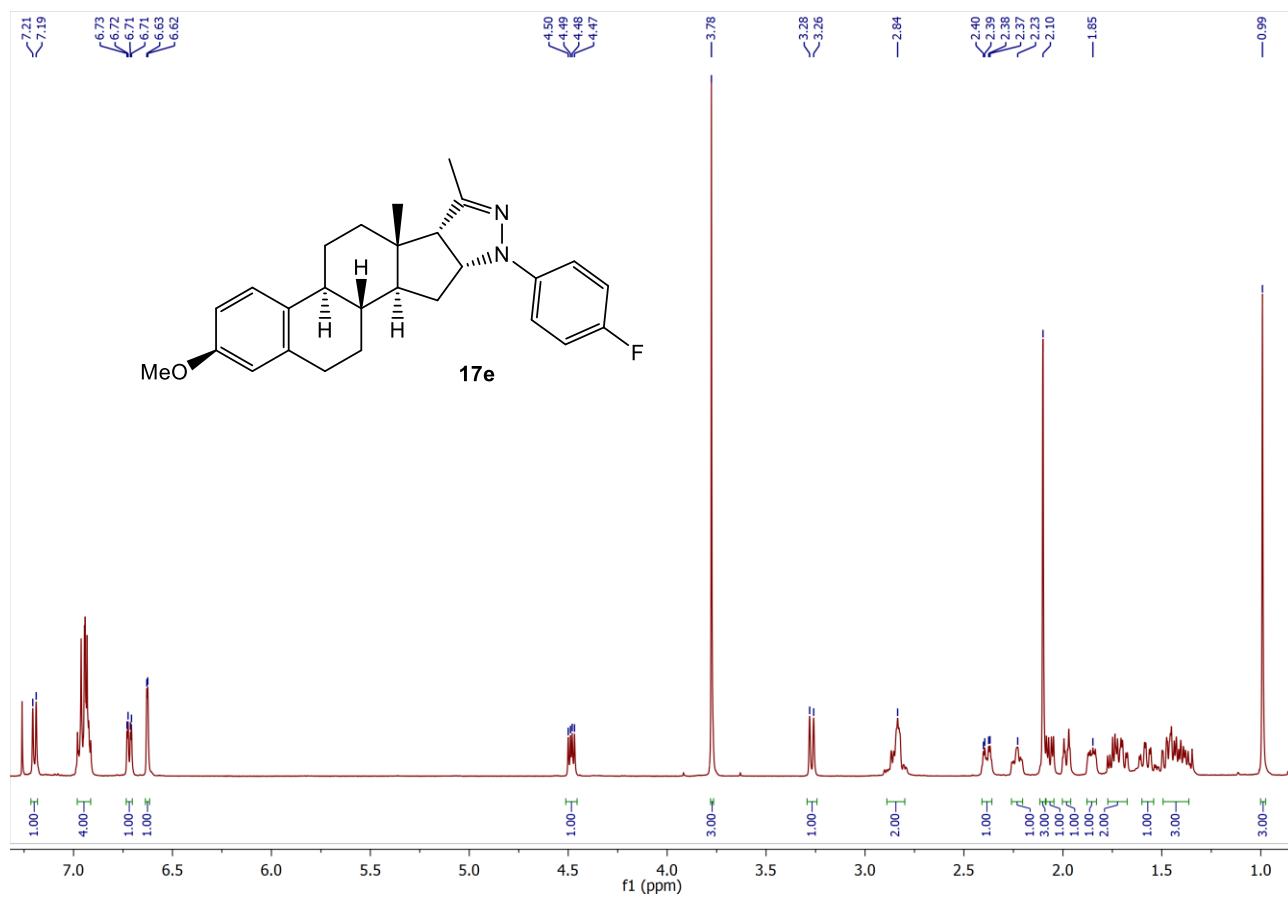


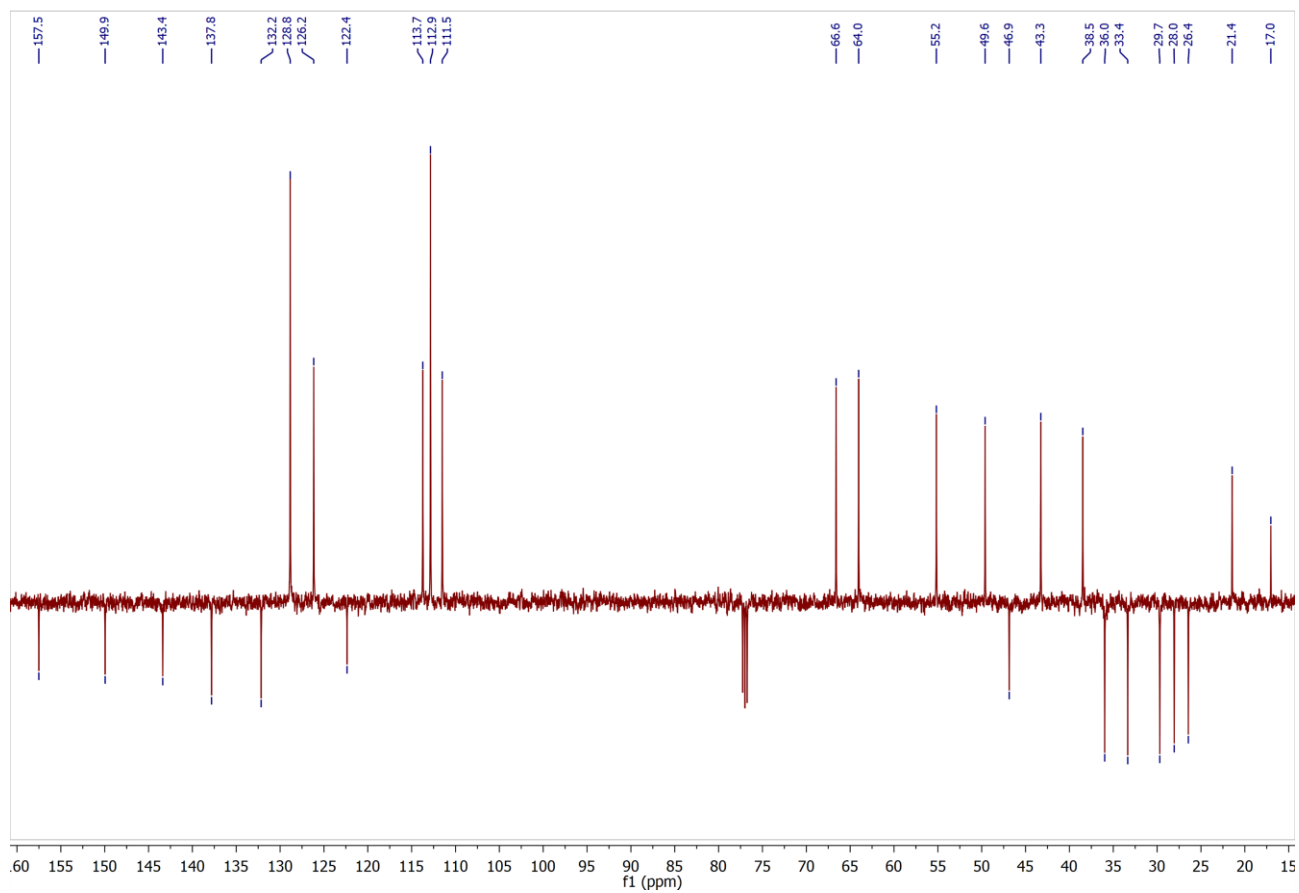
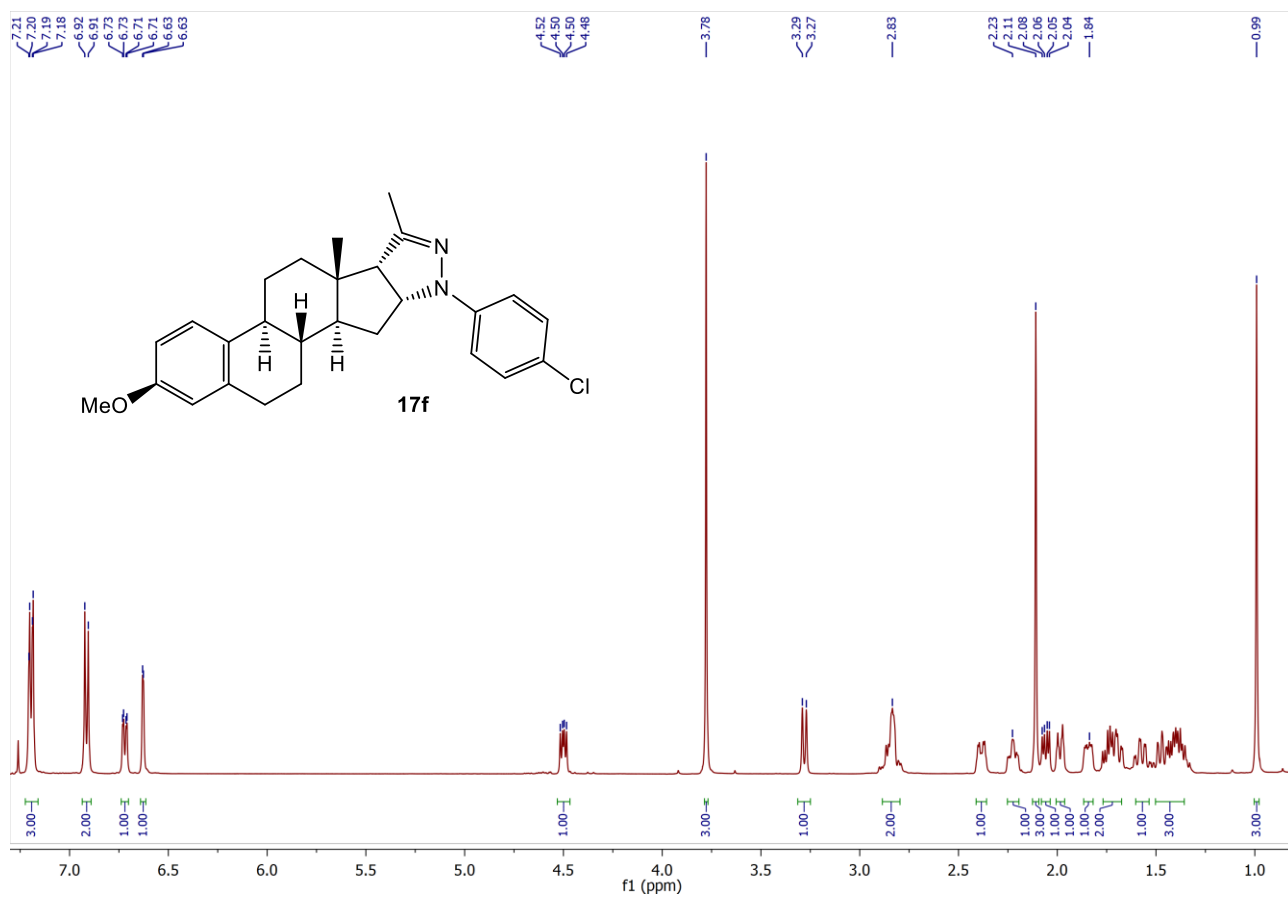


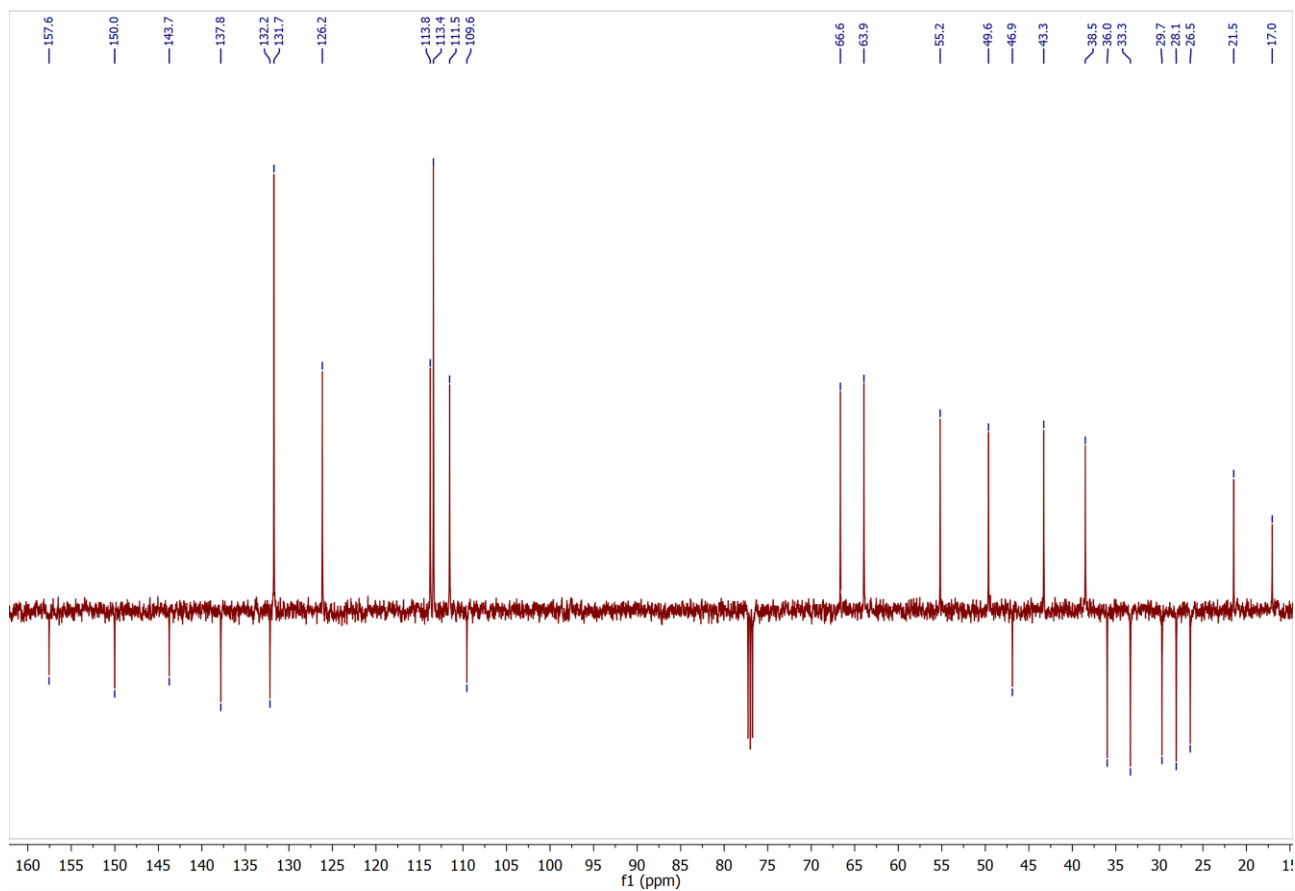


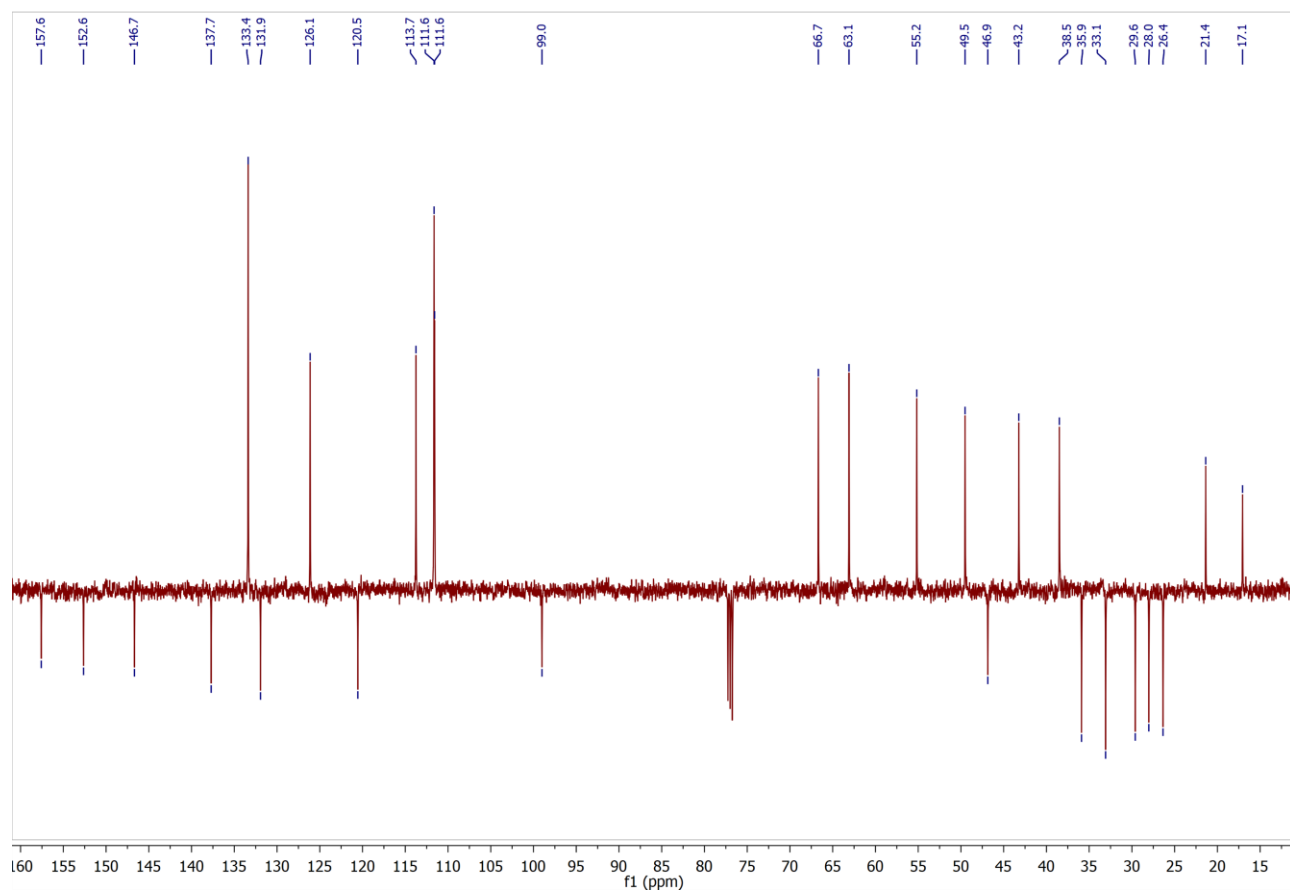
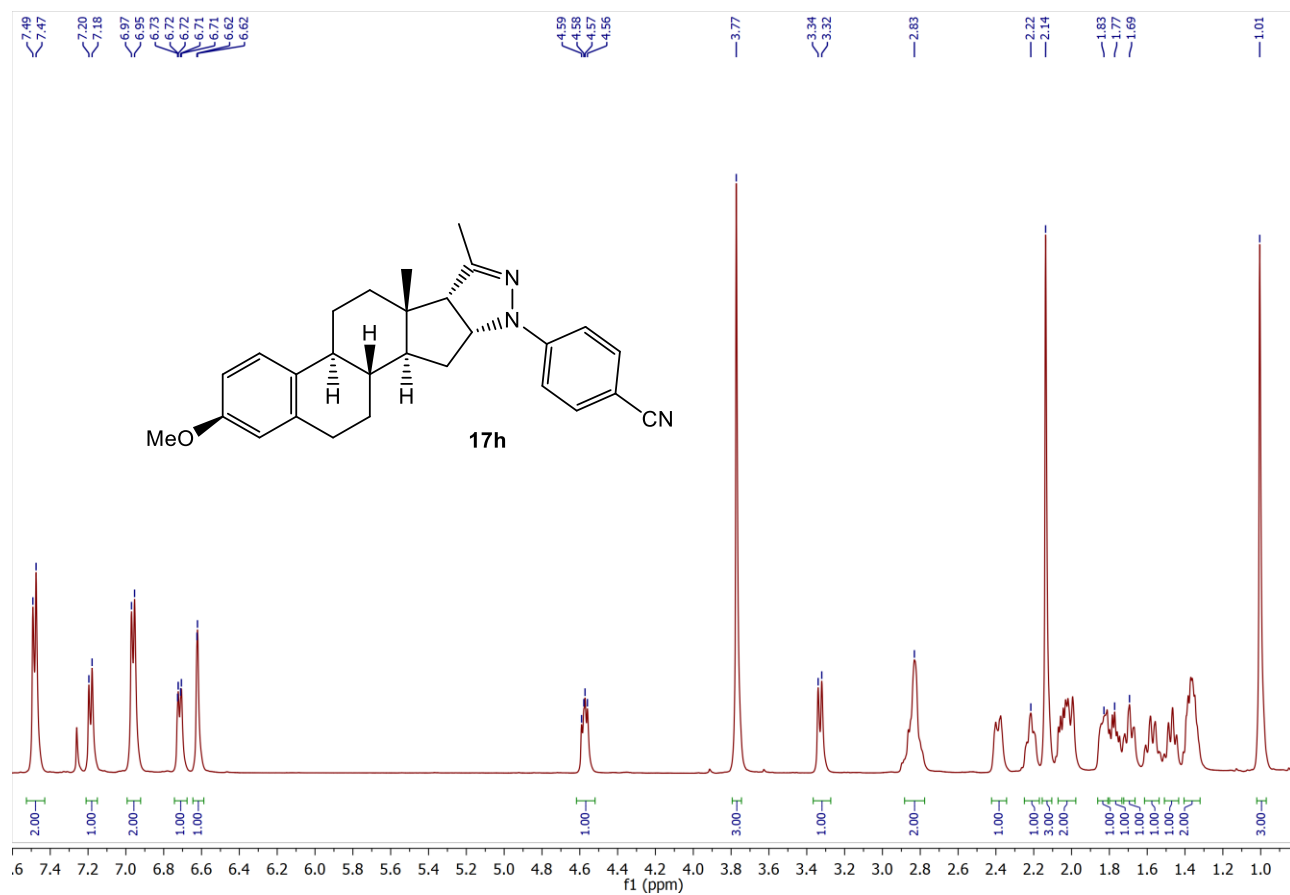


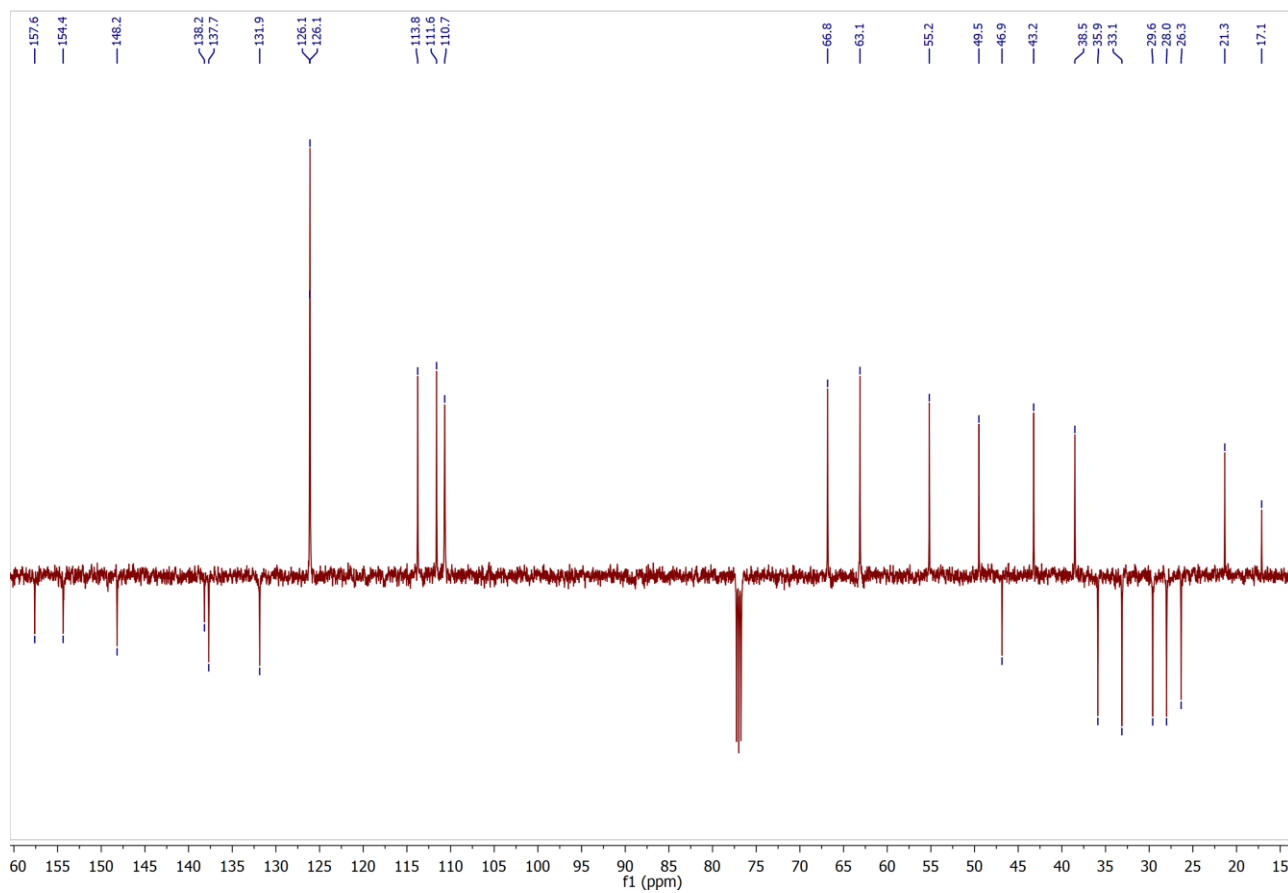
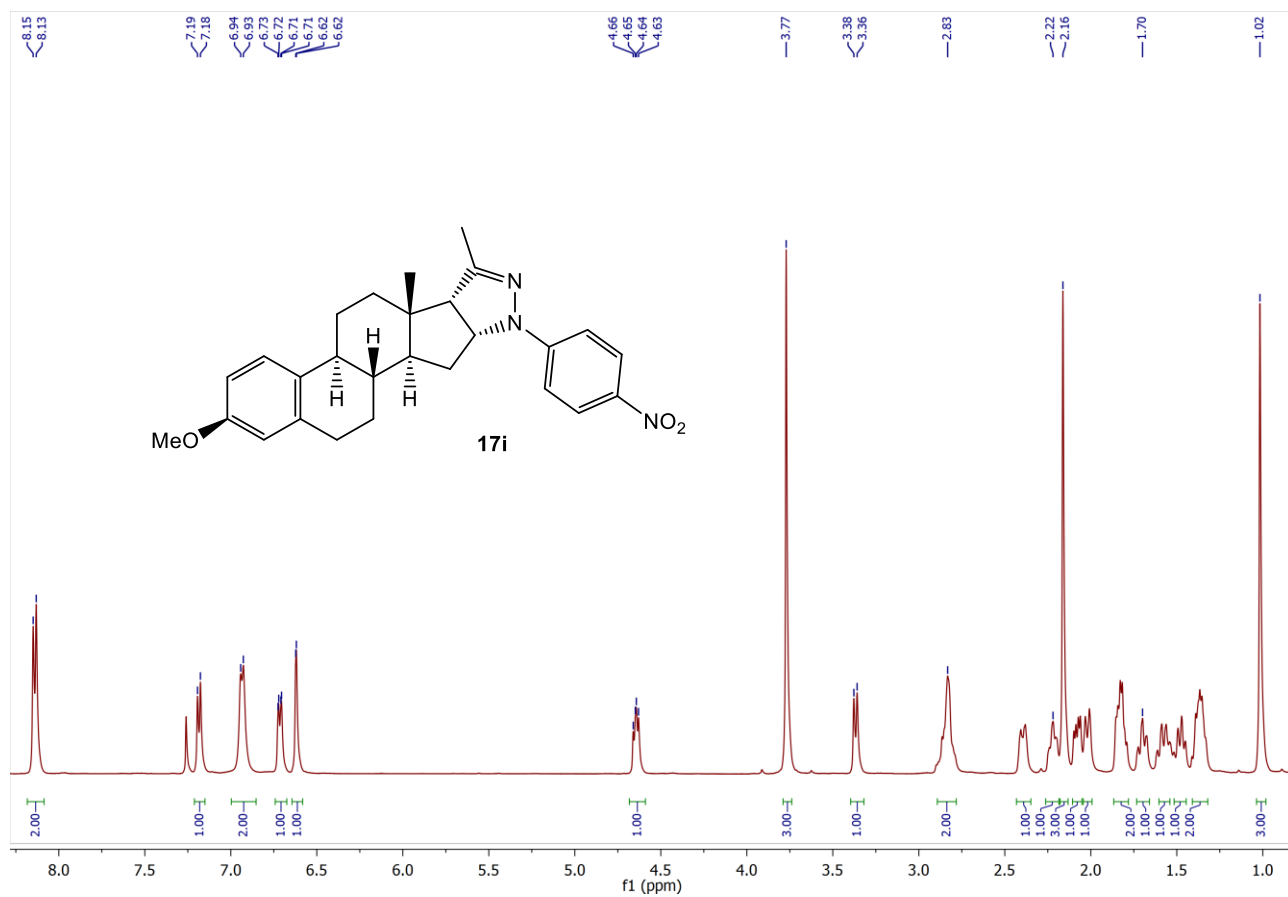


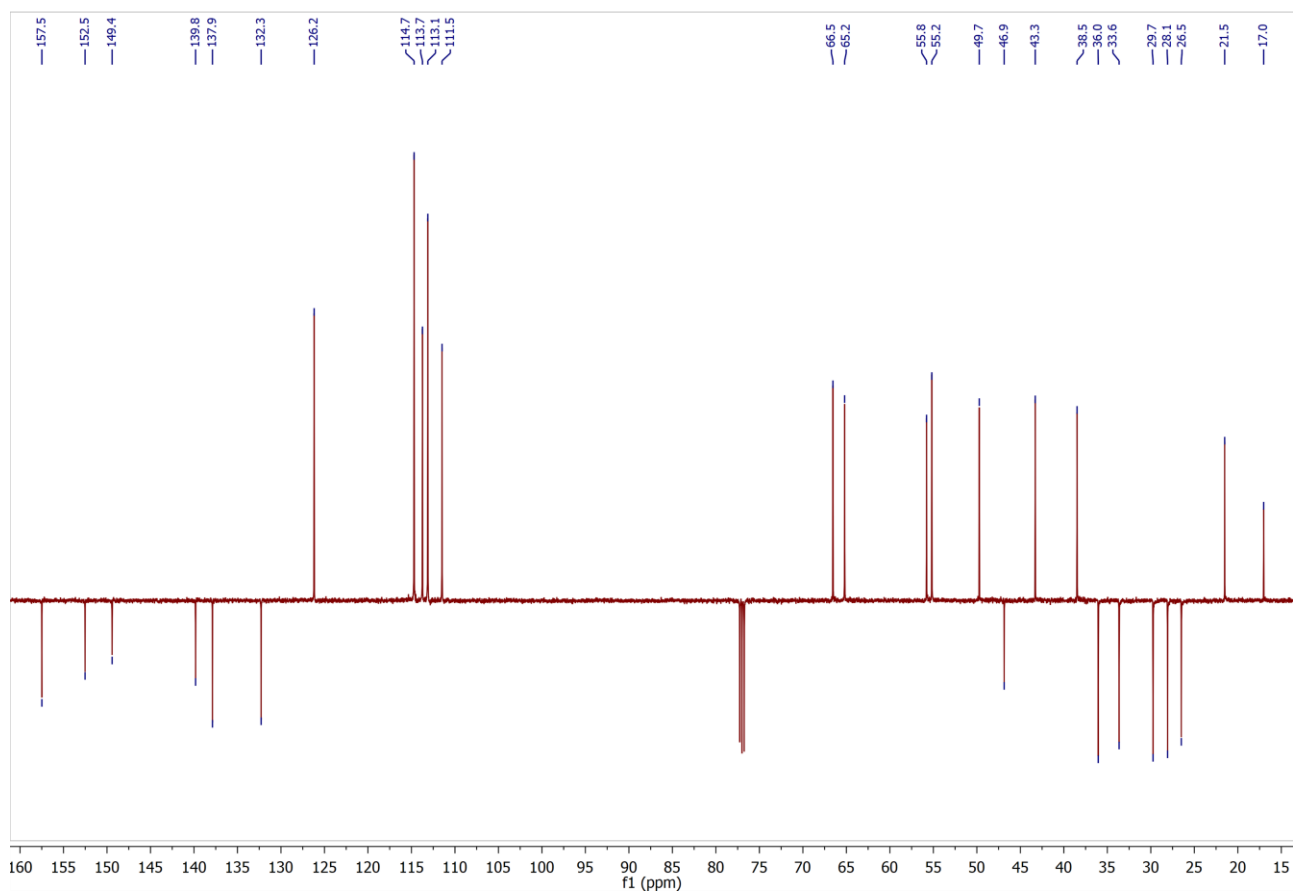
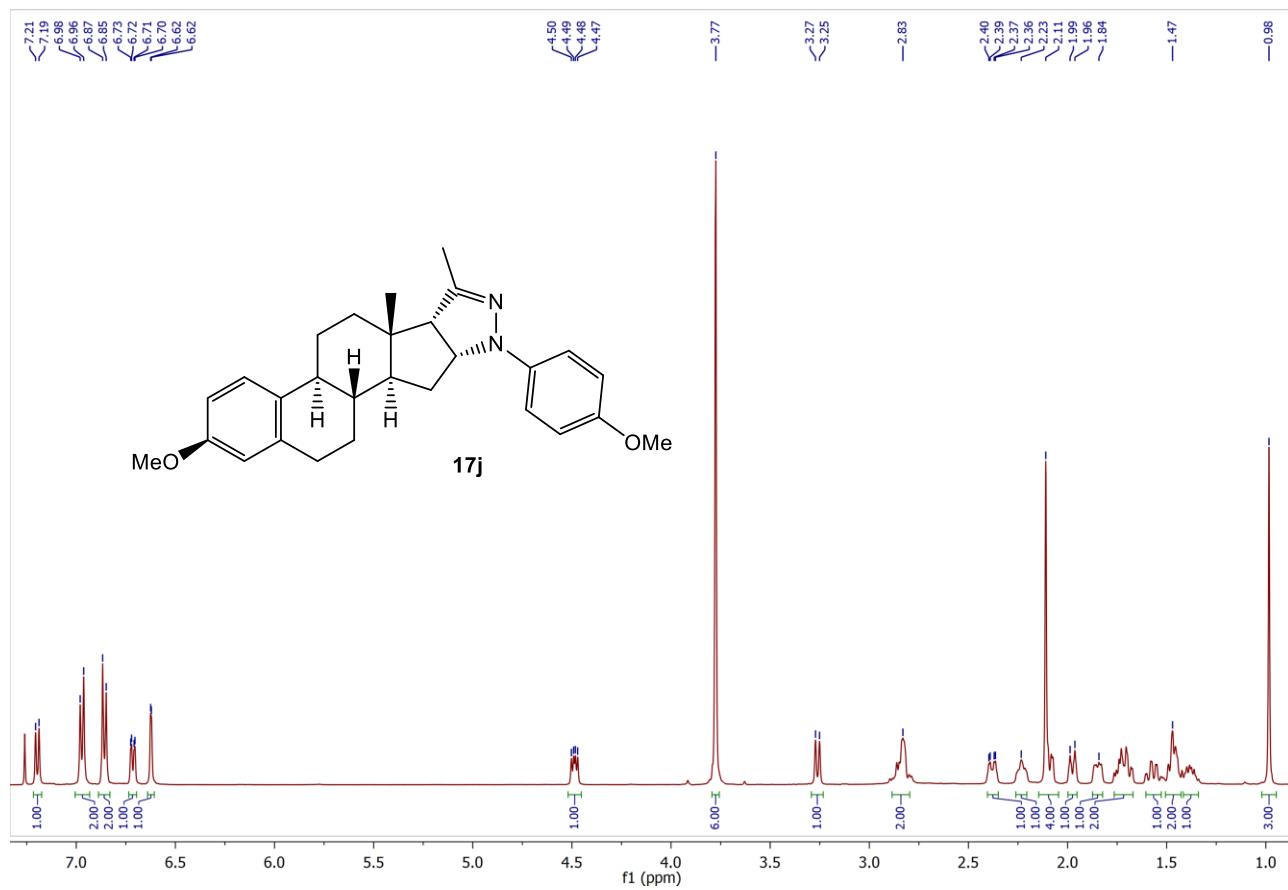


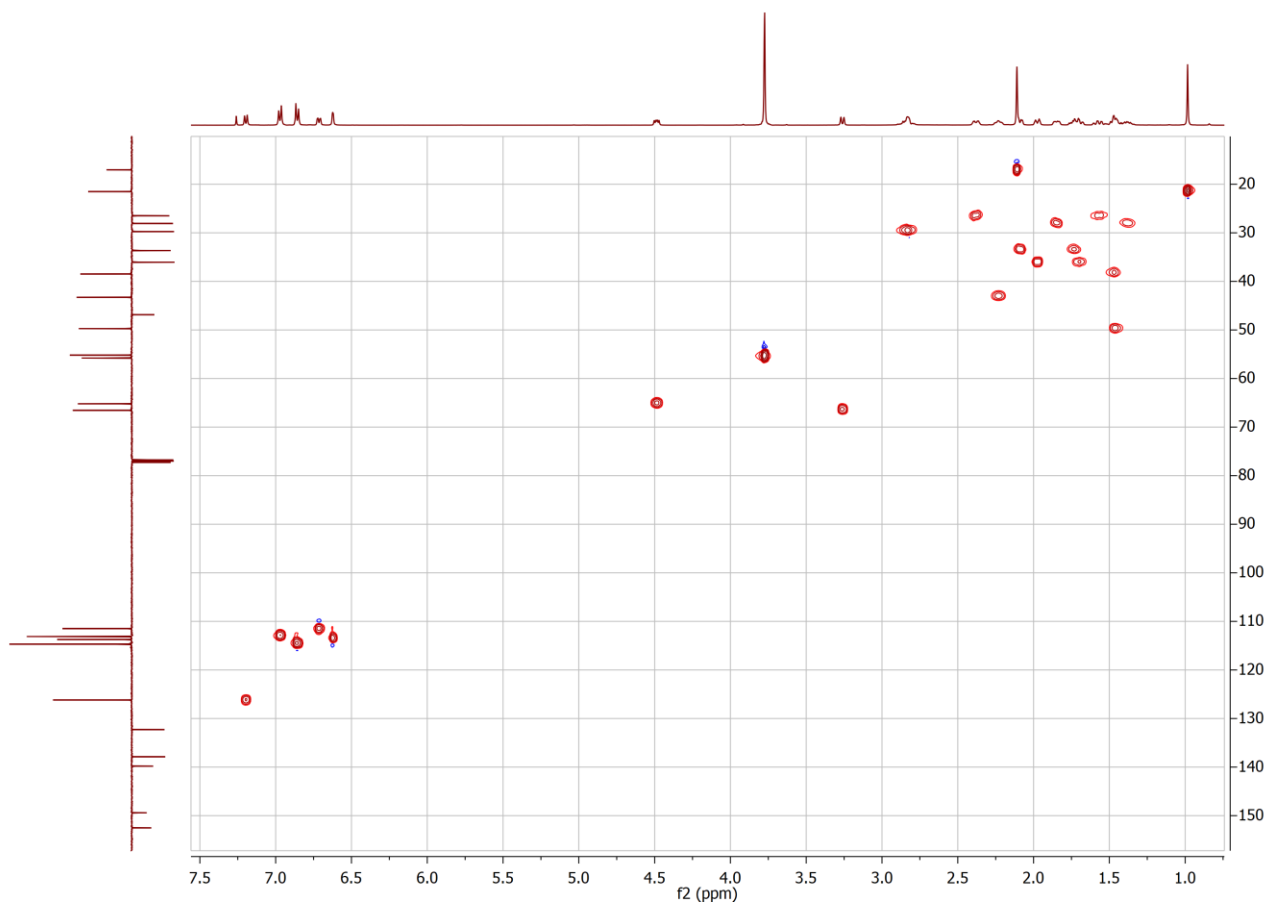
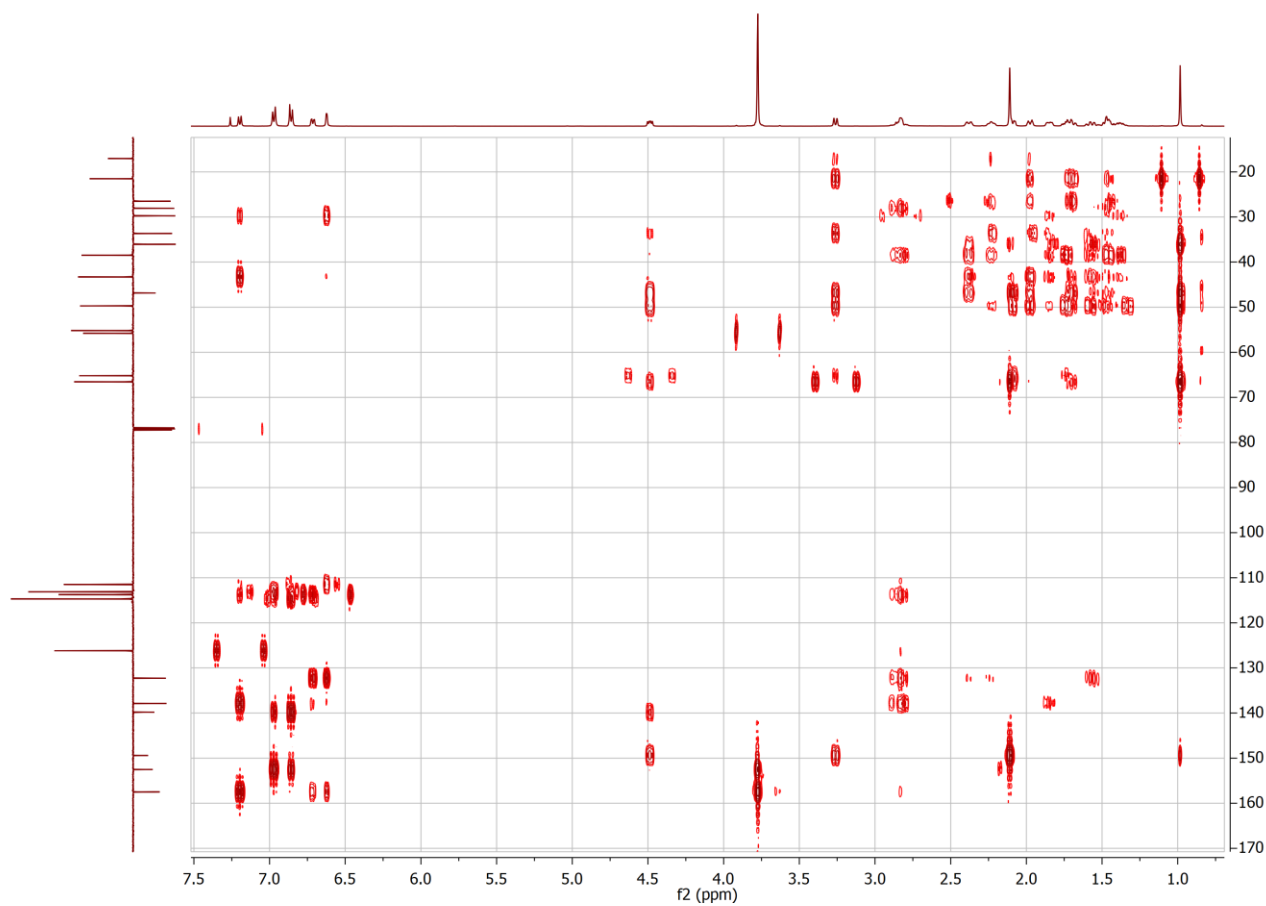


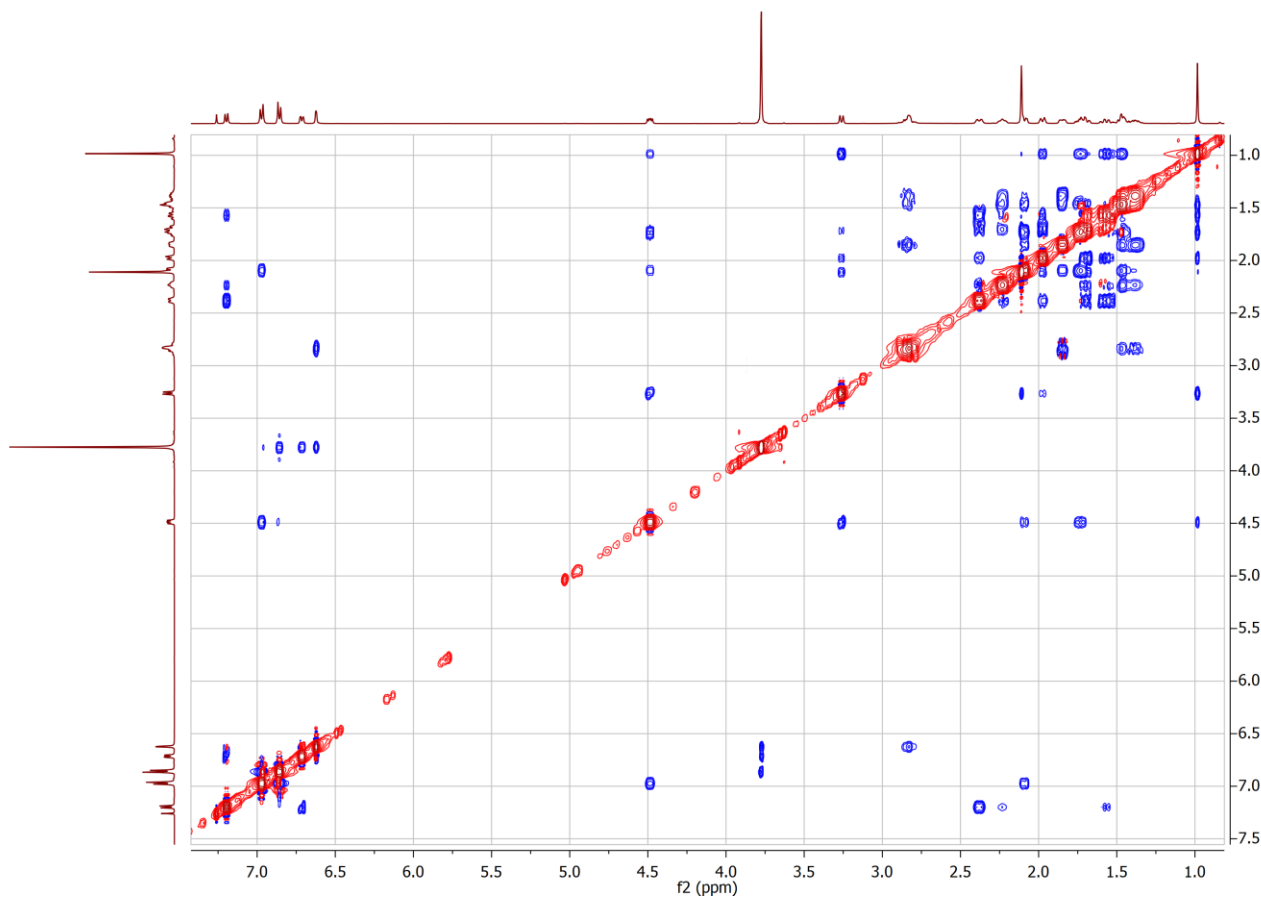






HSQC spectrum of **17j**

HMBC spectrum of **17j**NOESY spectrum of **17j**

COSY spectrum of **17j**