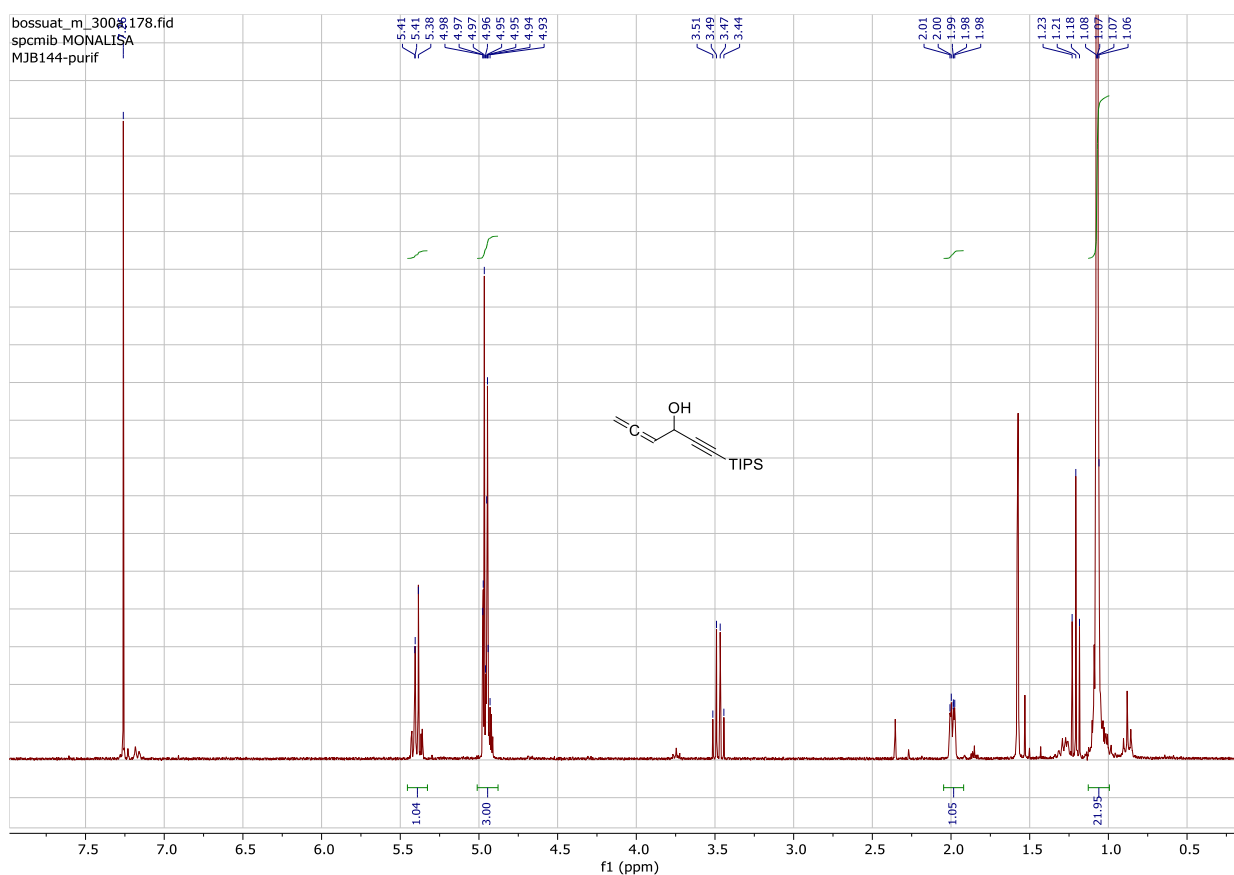
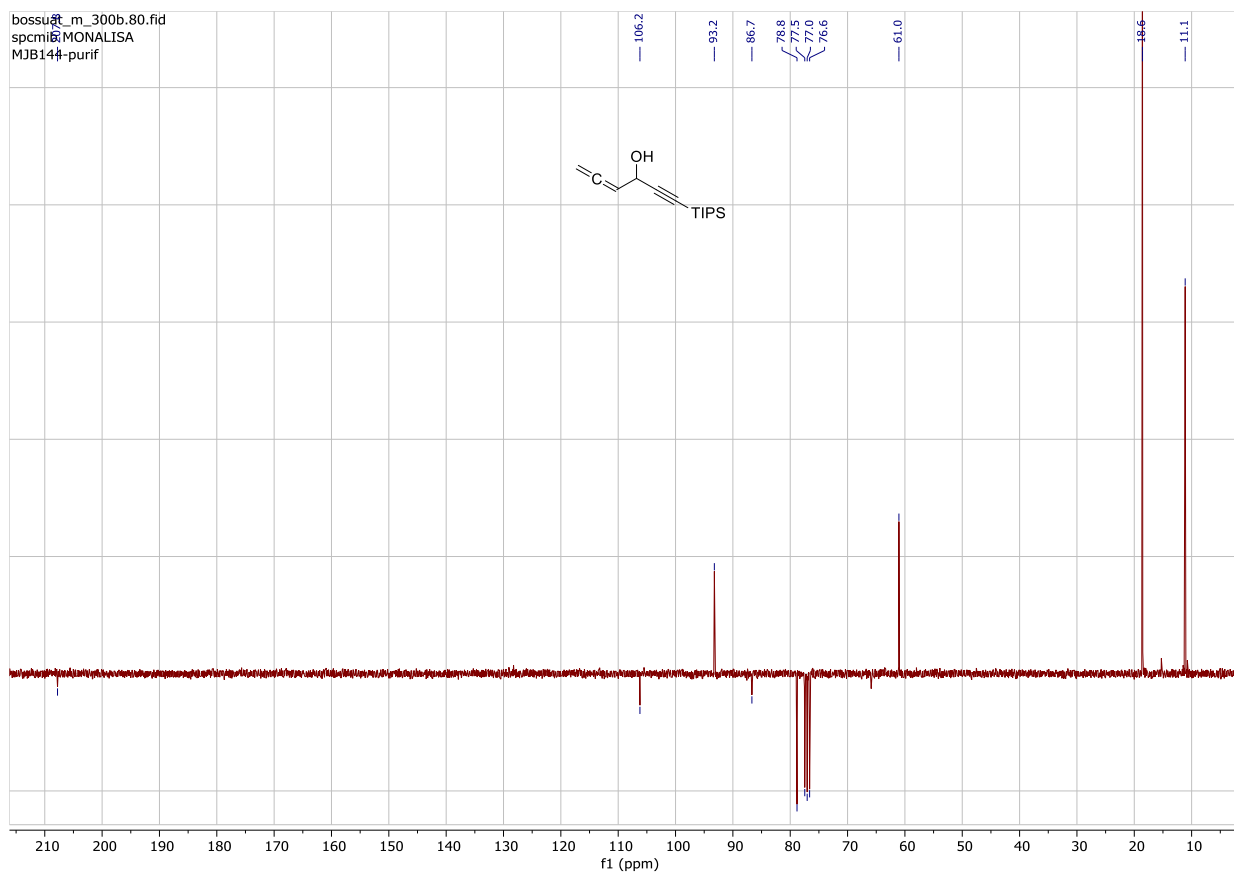


NMR spectra of synthesized compounds

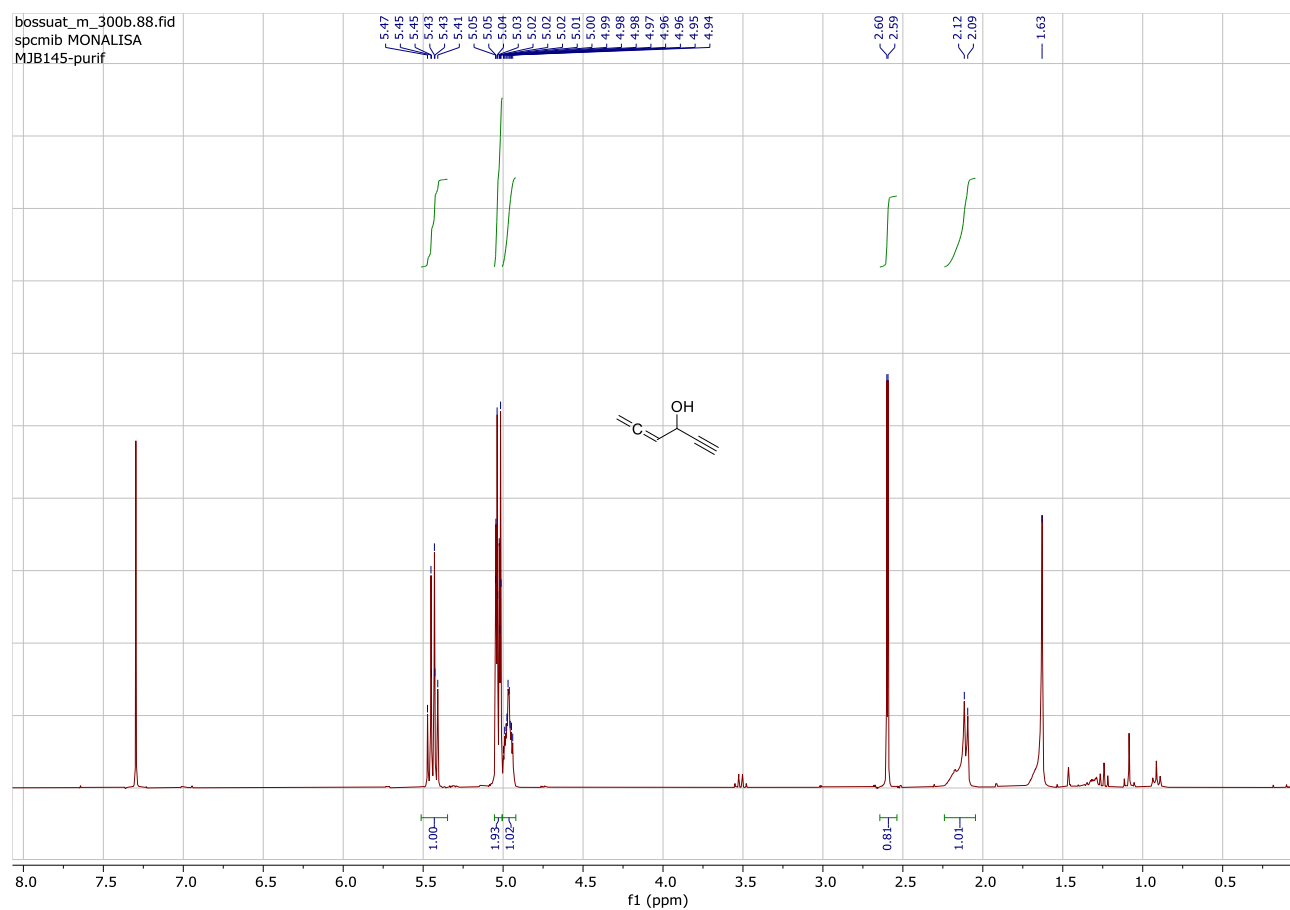
^1H NMR spectrum of compound **5a** (300 MHz, CDCl_3)



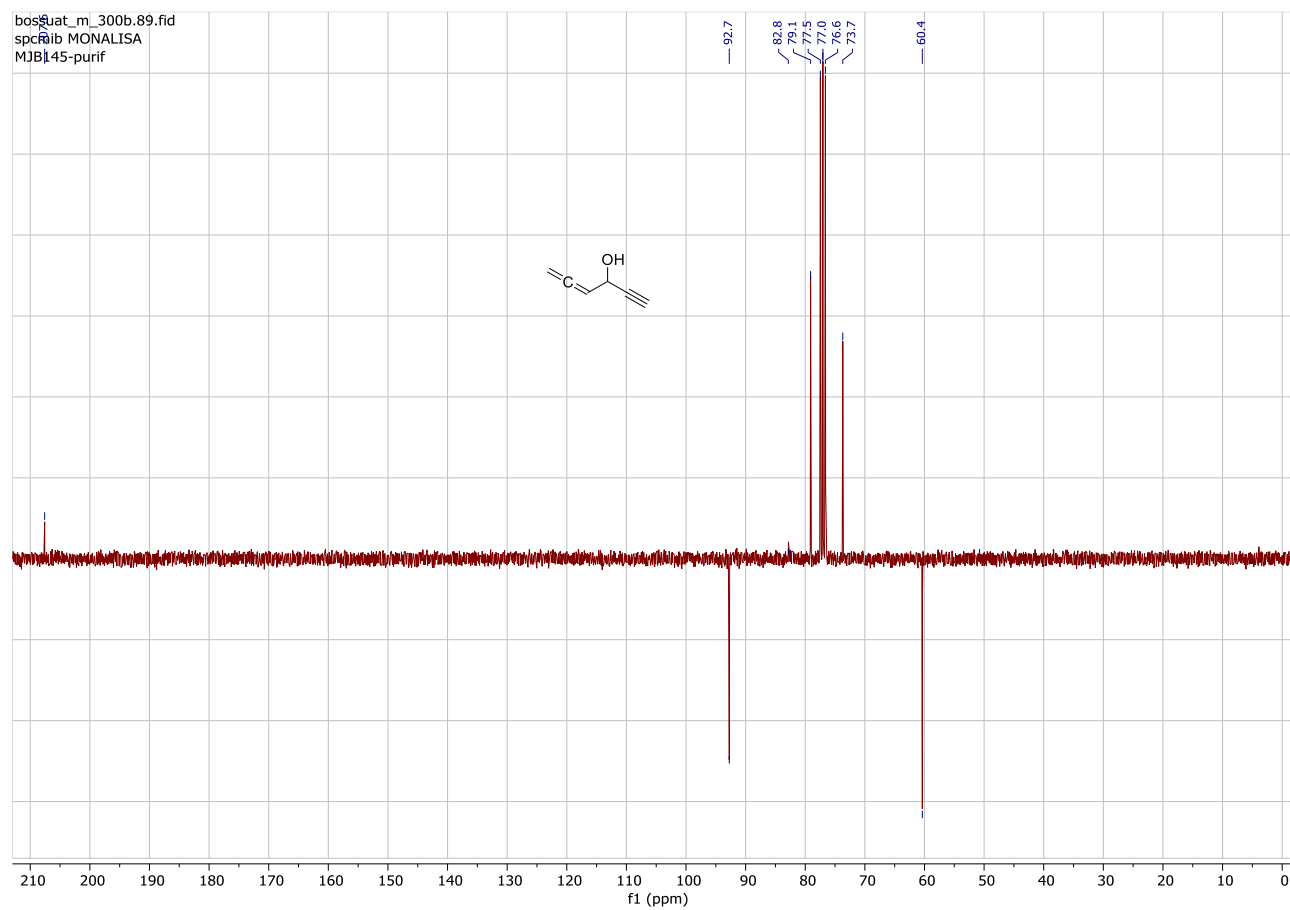
^{13}C NMR spectrum of compound **5a** (75 MHz, CDCl_3)



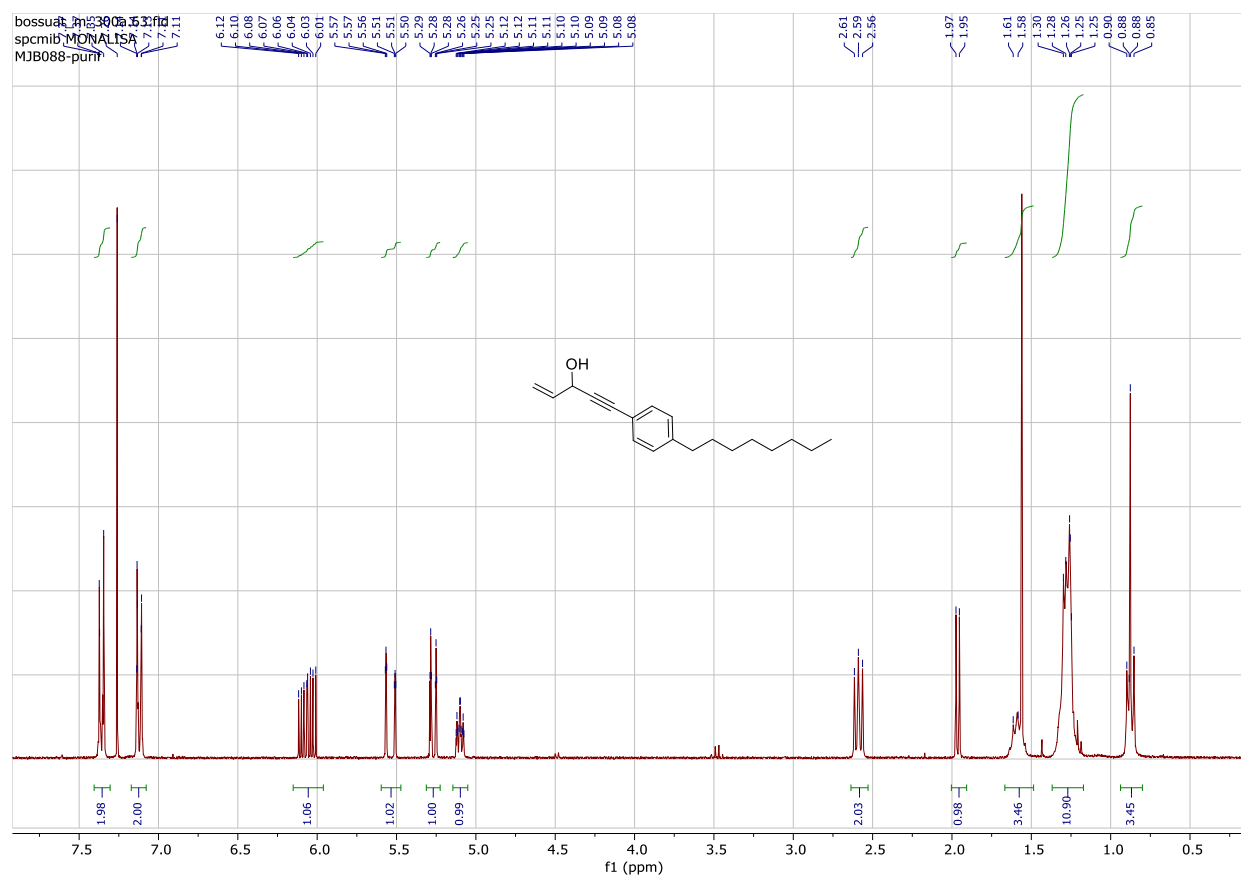
¹H NMR spectrum of compound **5** (300 MHz, CDCl₃)



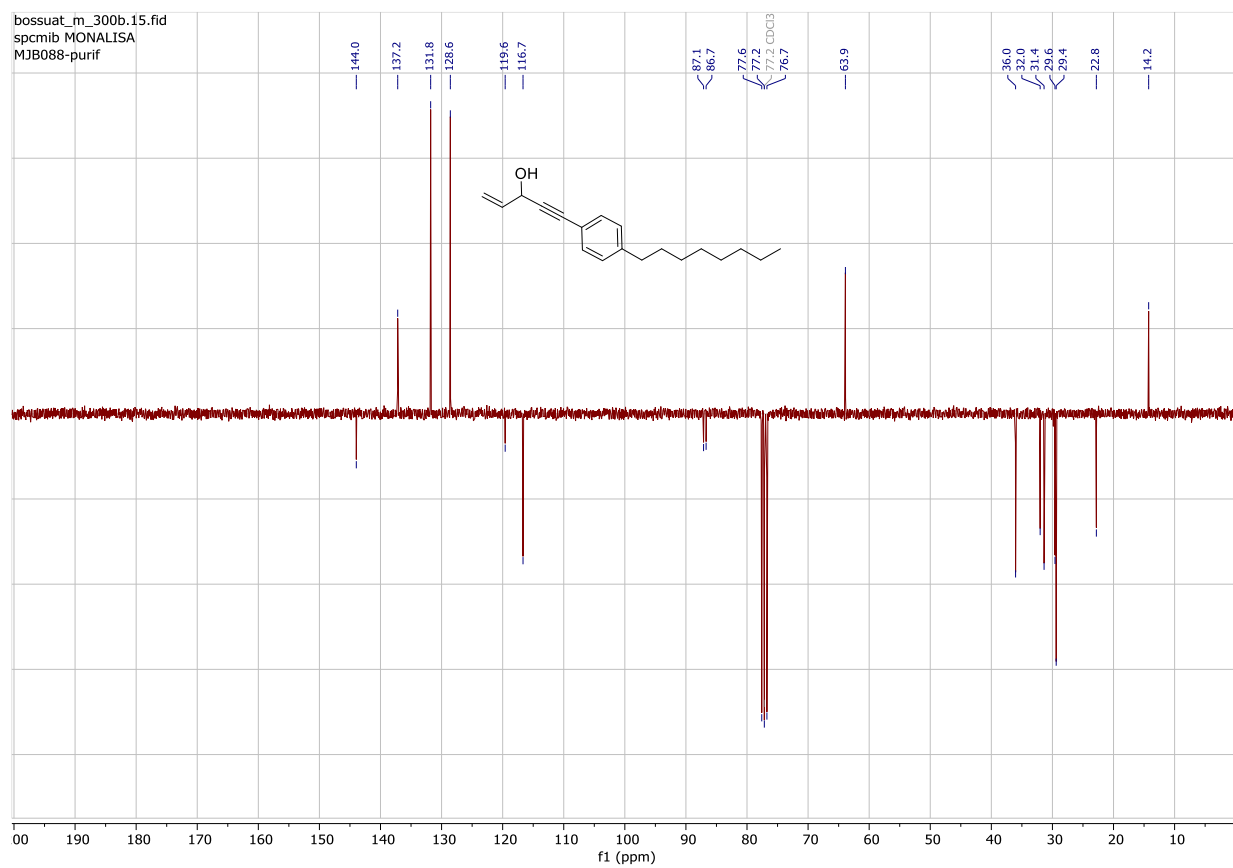
¹³C NMR spectrum of compound **5** (75 MHz, CDCl₃)



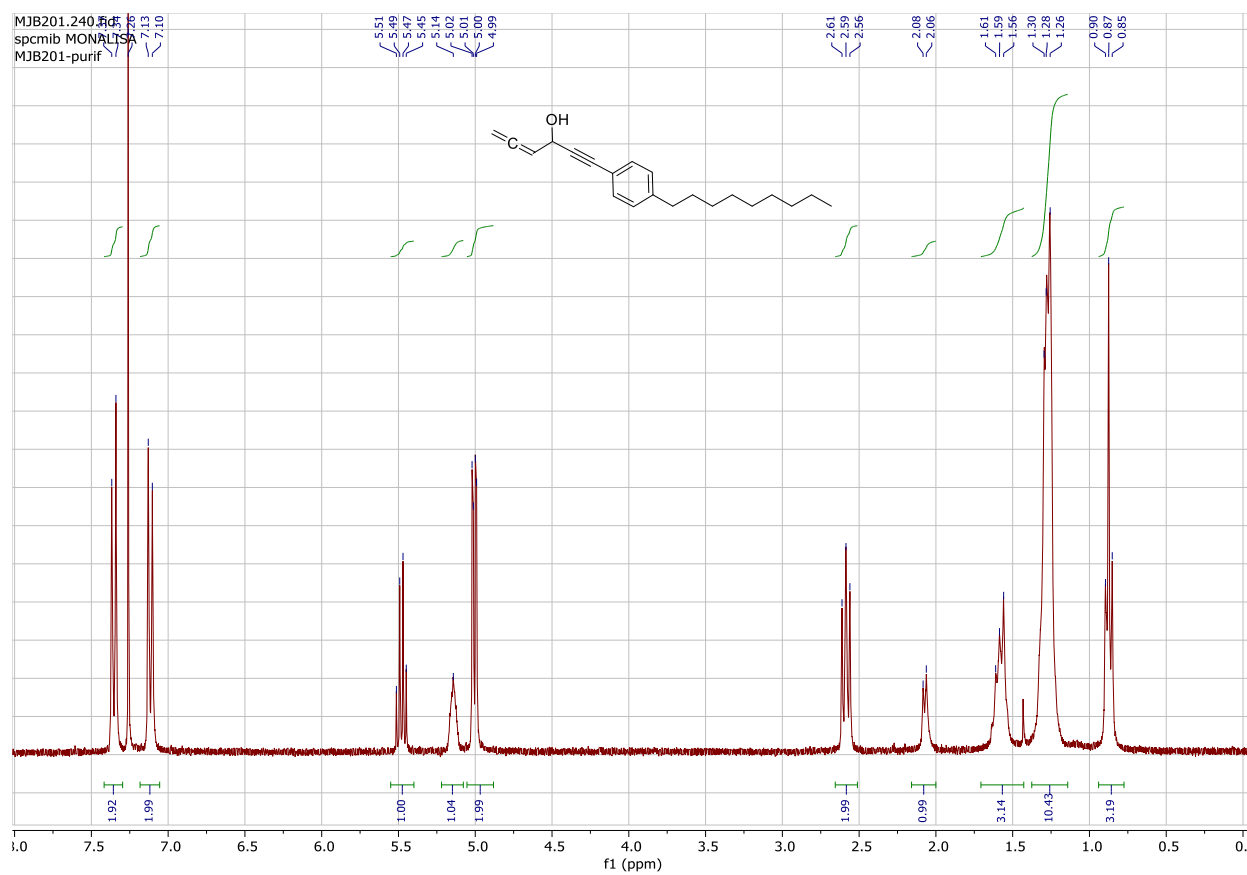
¹H NMR spectrum of compound **7** (300 MHz, CDCl₃)



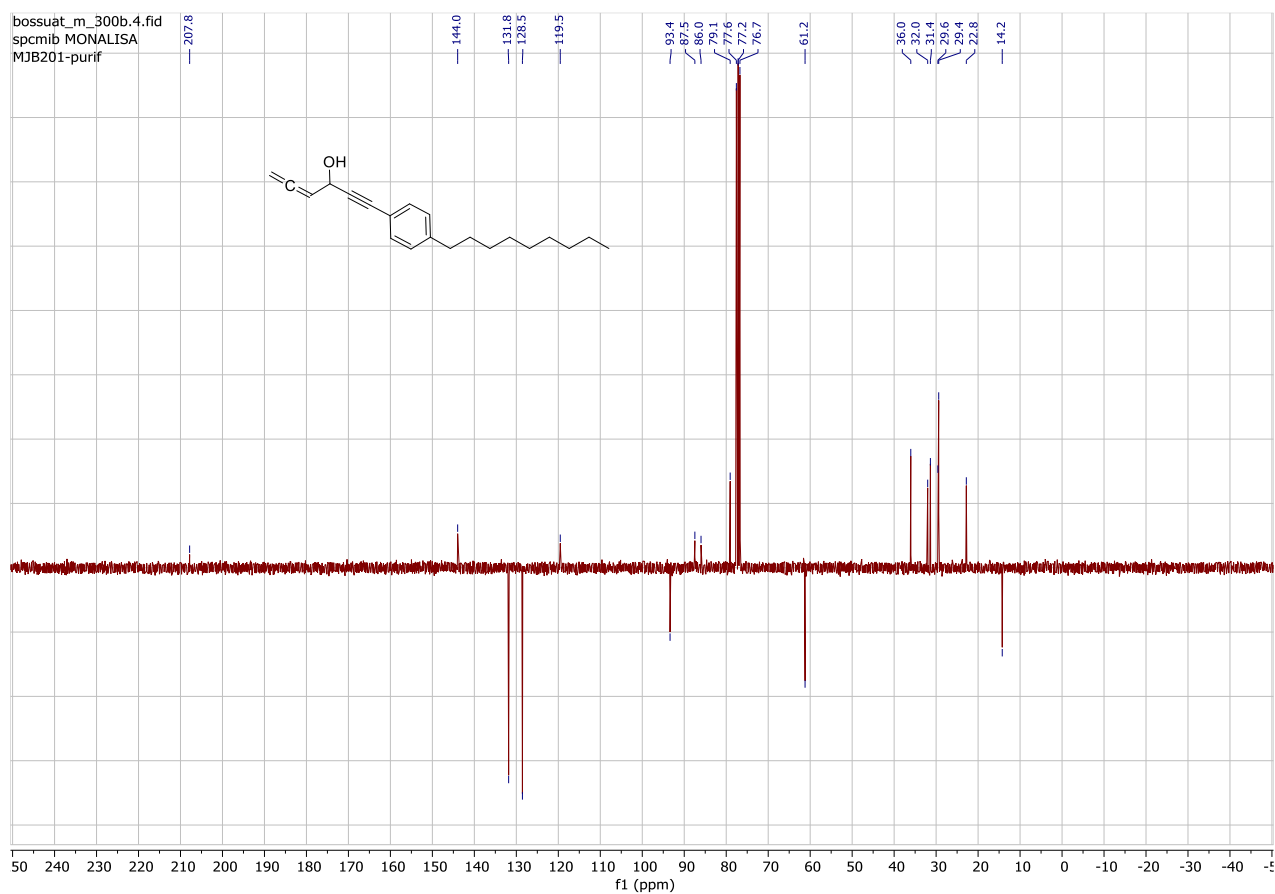
¹³C NMR spectrum of compound **7** (75 MHz, CDCl₃)



¹H NMR spectrum of compound **8** (300 MHz, CDCl₃)



¹³C NMR spectrum of compound **8** (75 MHz, CDCl₃)



[illegible]

PS 043 Fcoet

Spcmb MONALISA

7.26
7.31
7.32
7.33
7.34
7.44
7.45

5.36
5.34

2.37
2.34

1.40

f1 (ppm)

1.97
2.97

1.00

0.99

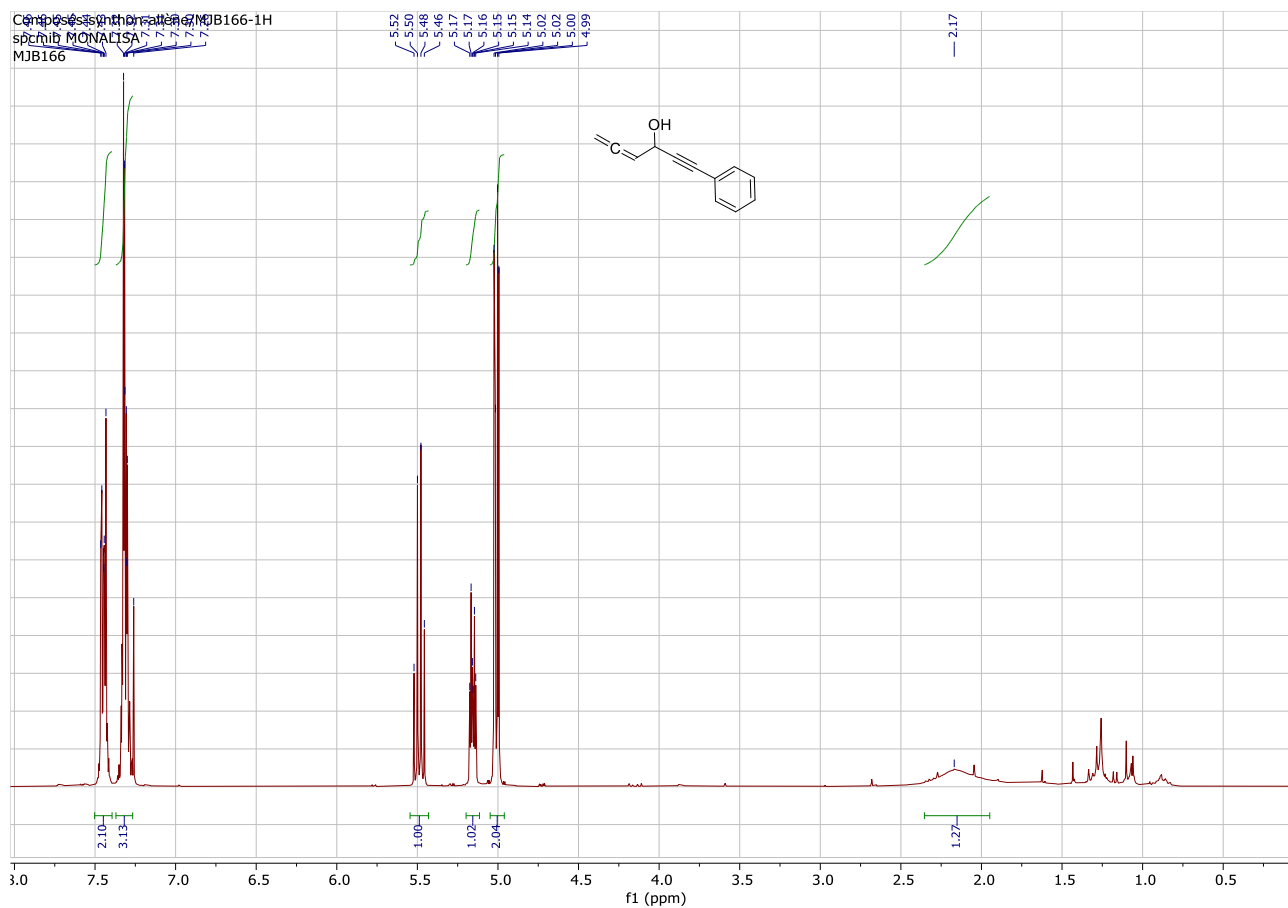
21.30

TIPS

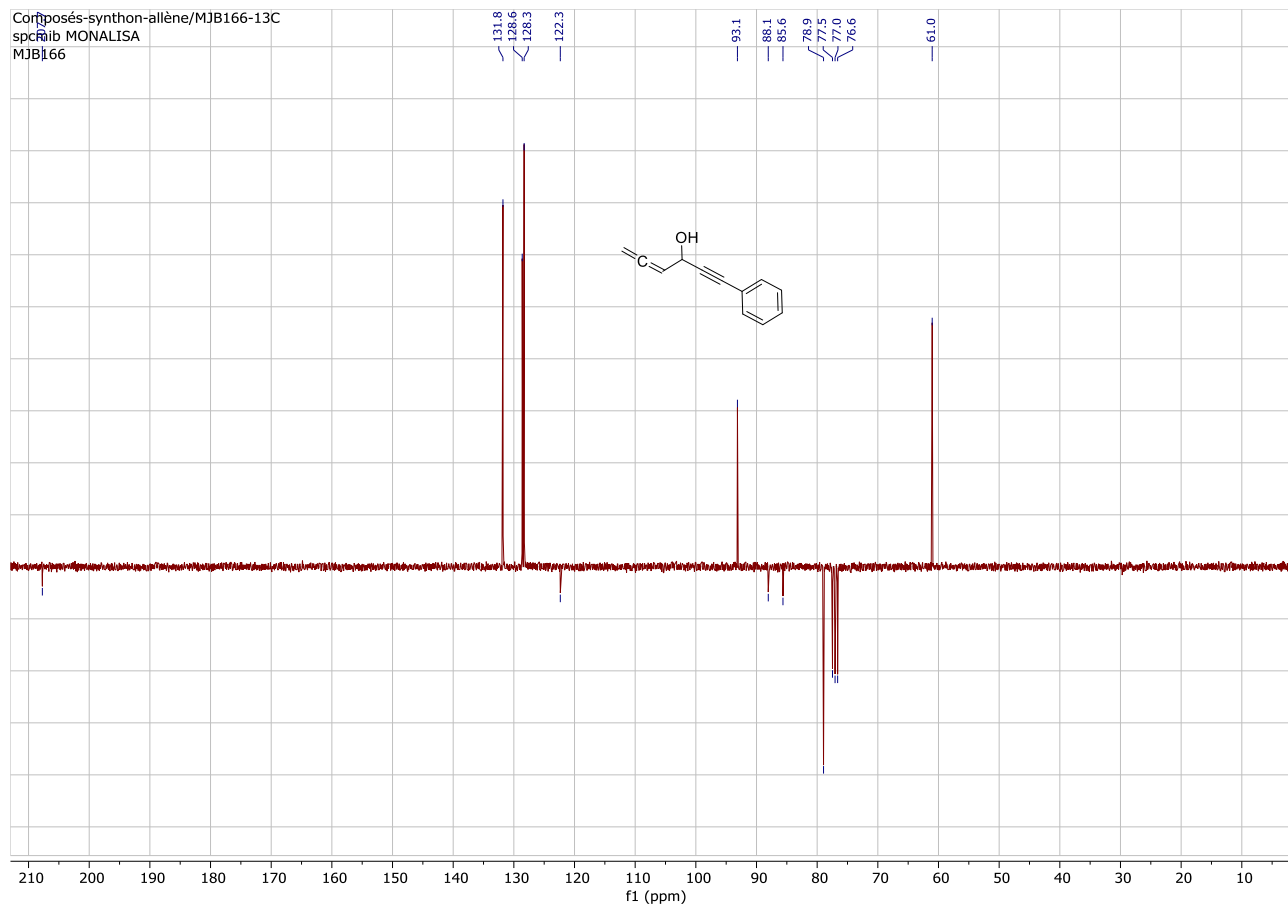
OH

Chemical Structure: C#CC(O)C#Cc1ccccc1

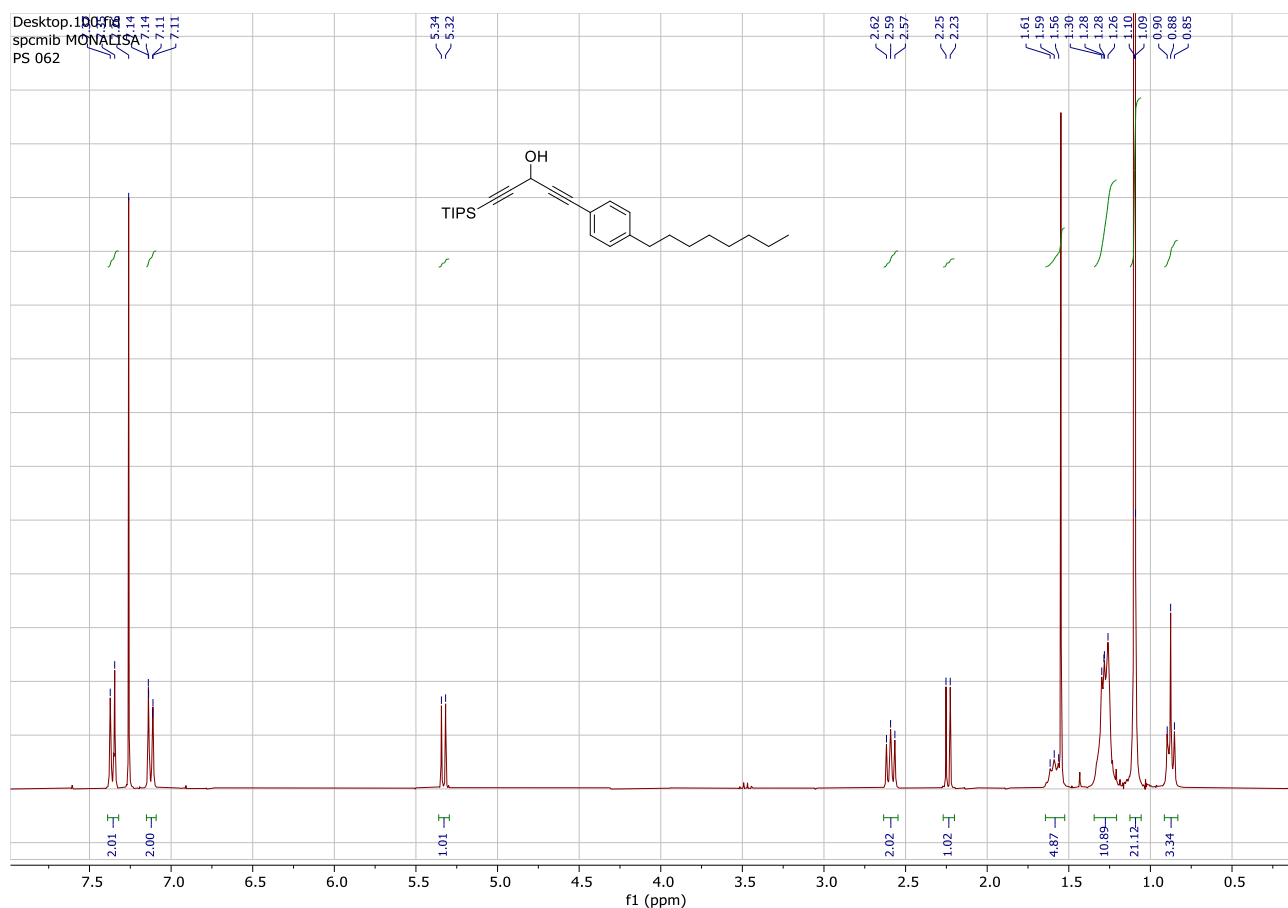
¹H NMR spectrum of compound **11** (300 MHz, CDCl₃)



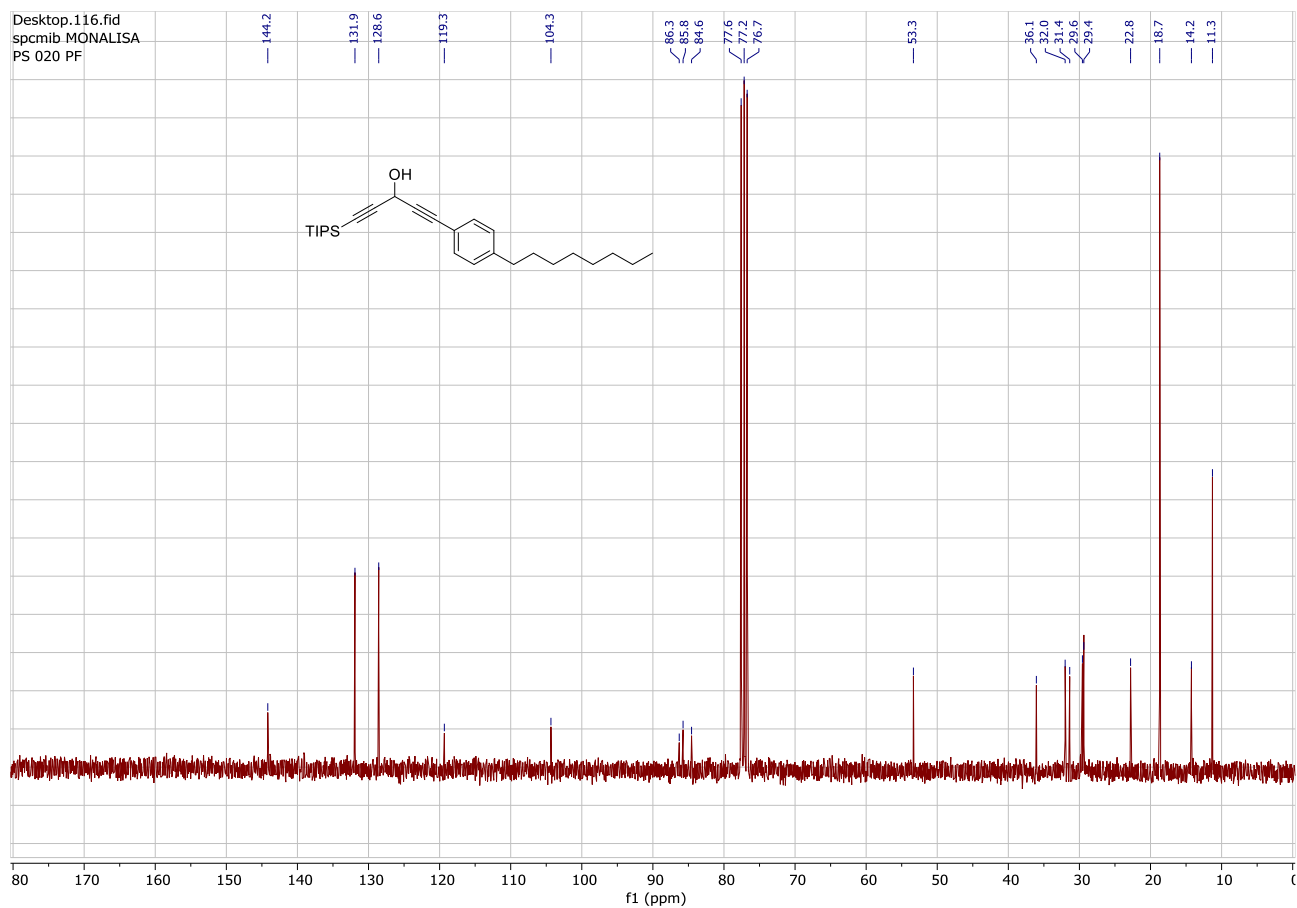
¹³C NMR spectrum of compound **11** (75 MHz, CDCl₃)



¹H NMR spectrum of compound **18** (300 MHz, CDCl₃)



¹³C NMR spectrum of compound **18** (75 MHz, CDCl₃)

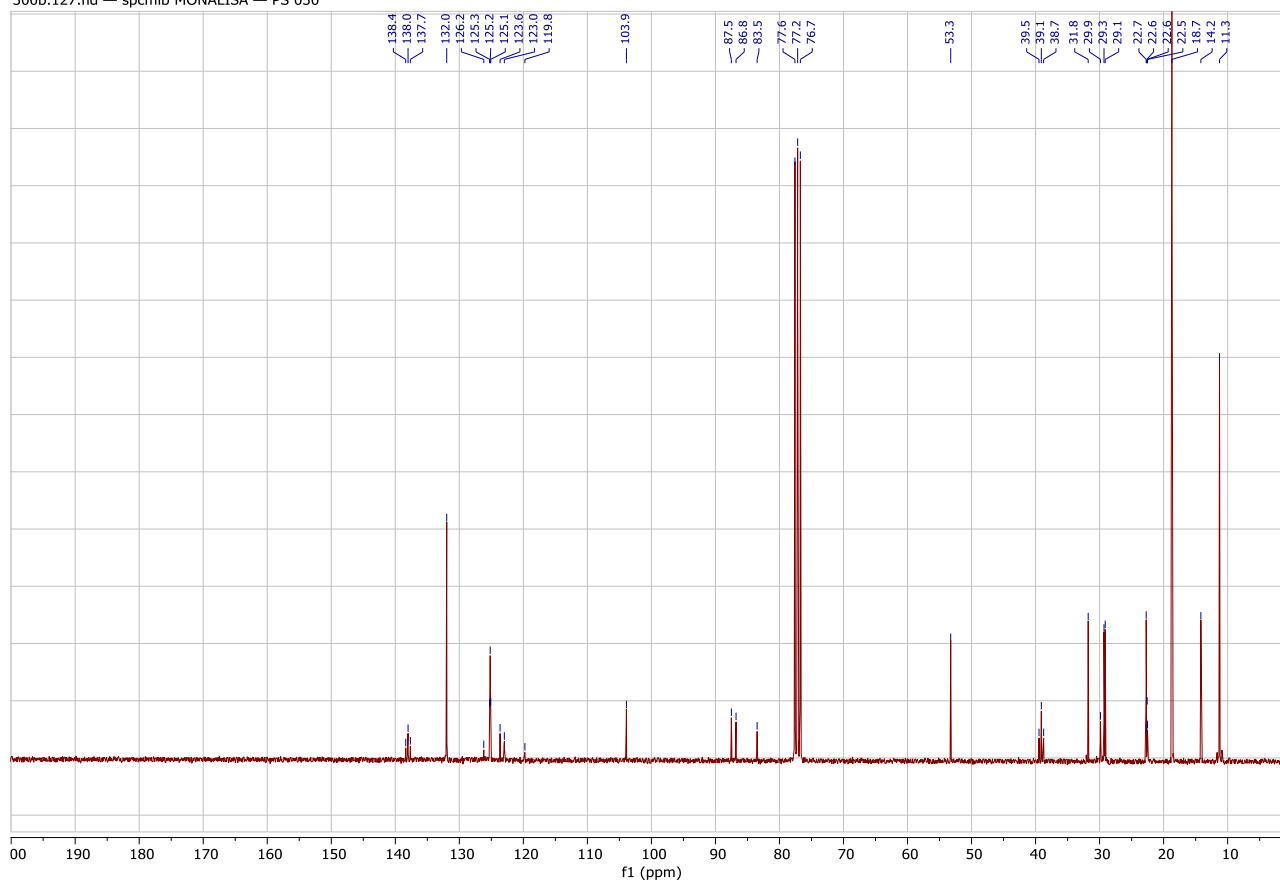


¹H NMR spectrum of compound **19** (300 MHz, CDCl₃)

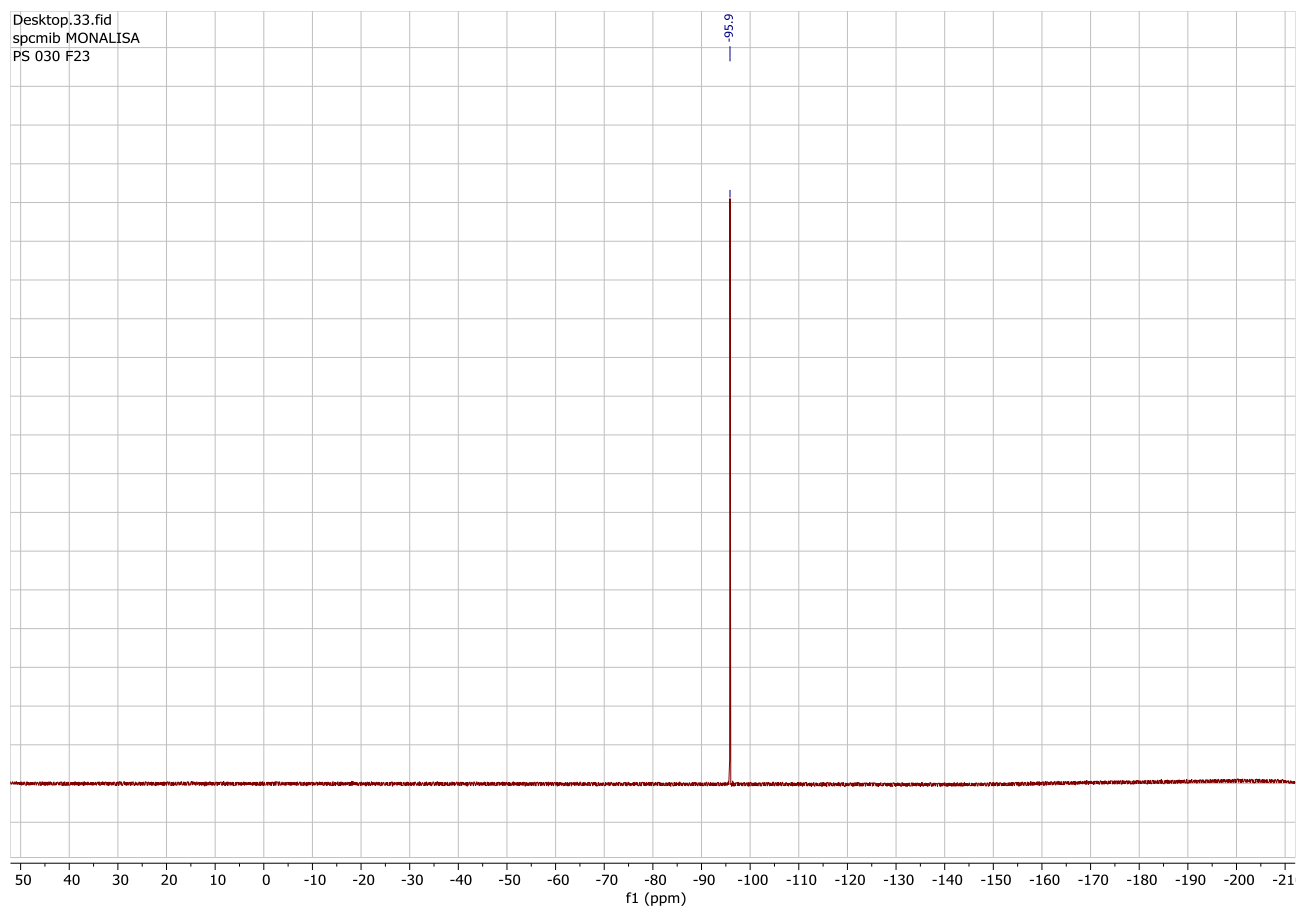


¹³C NMR spectrum of compound **19** (75 MHz, CDCl₃)

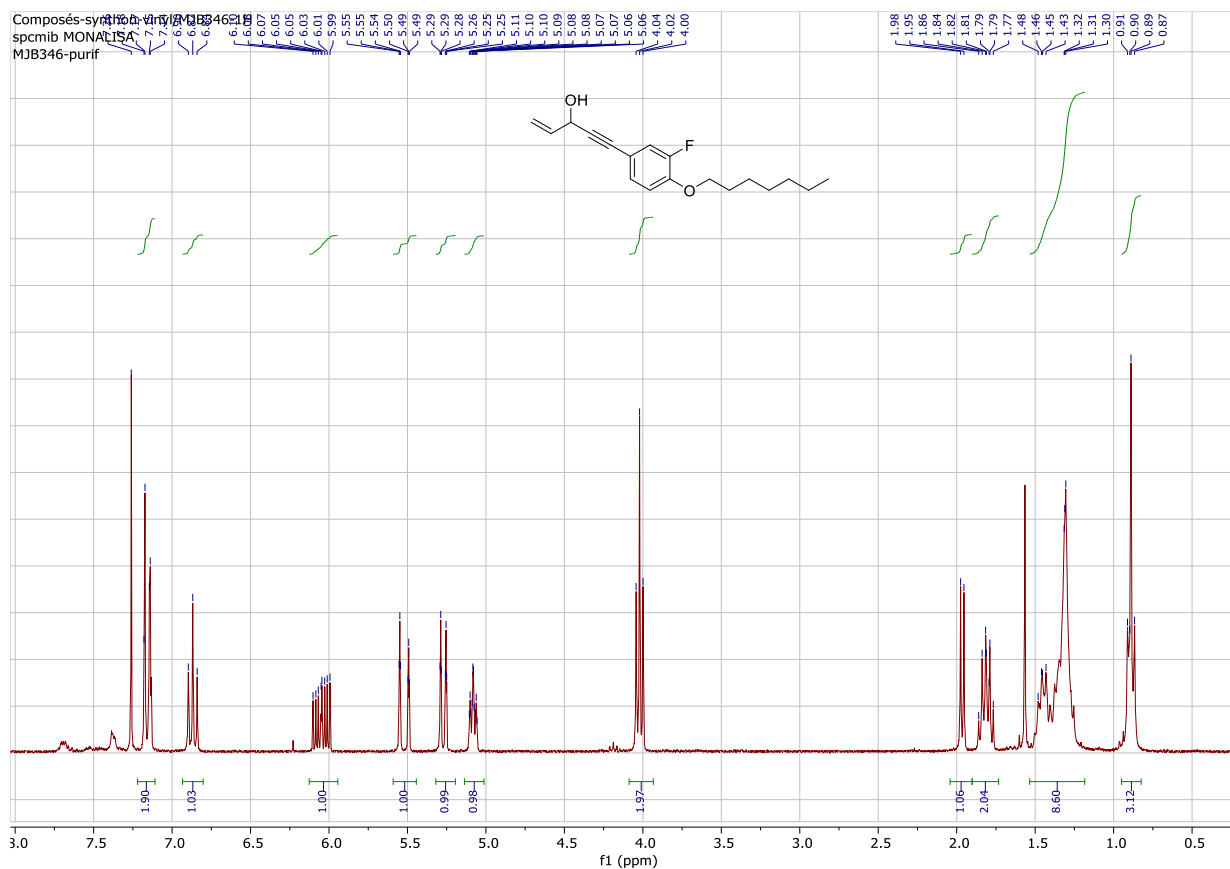
300b.127.fid — spcmib MONALISA — PS 030



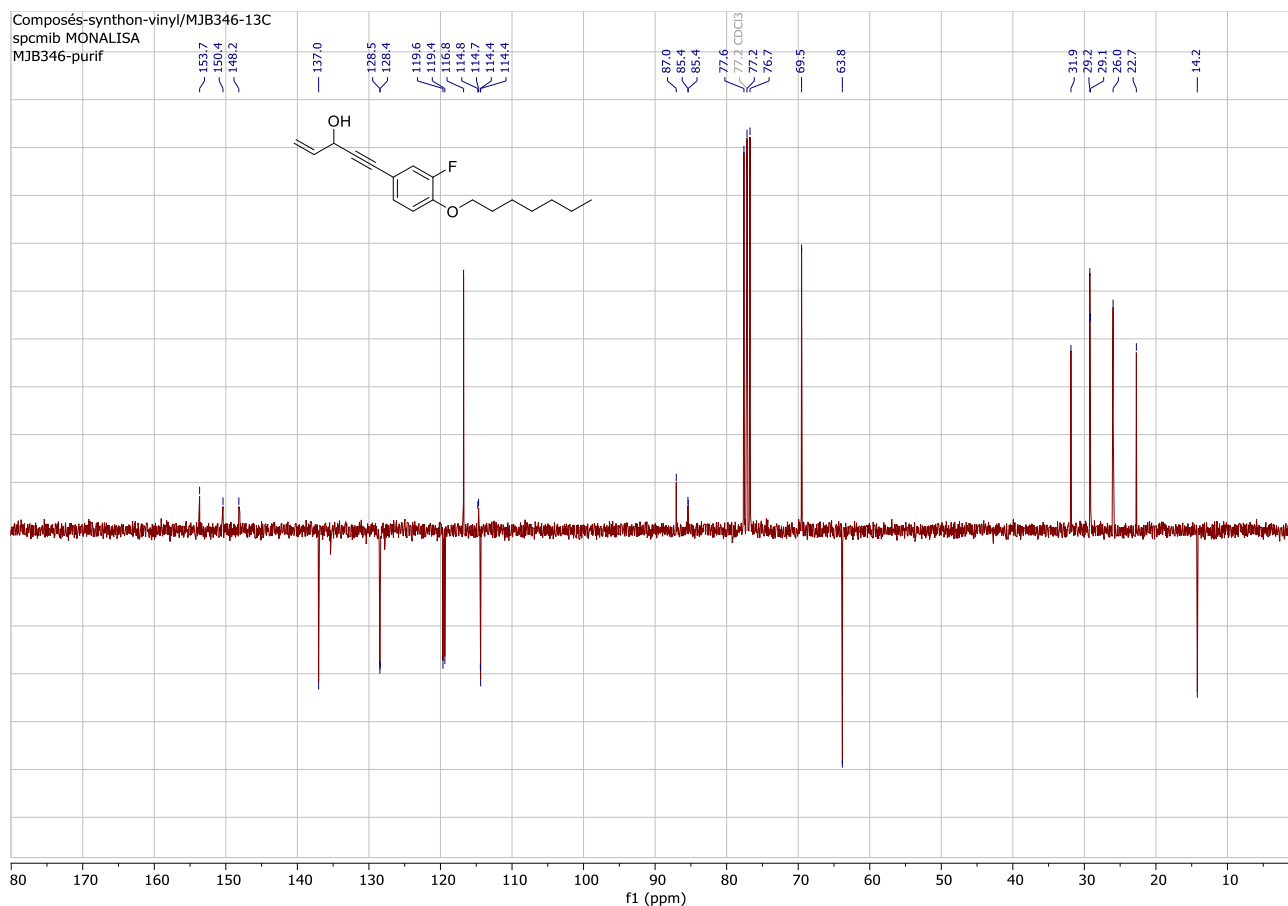
¹⁹F NMR spectrum of compound **19** (282 MHz, CDCl₃)



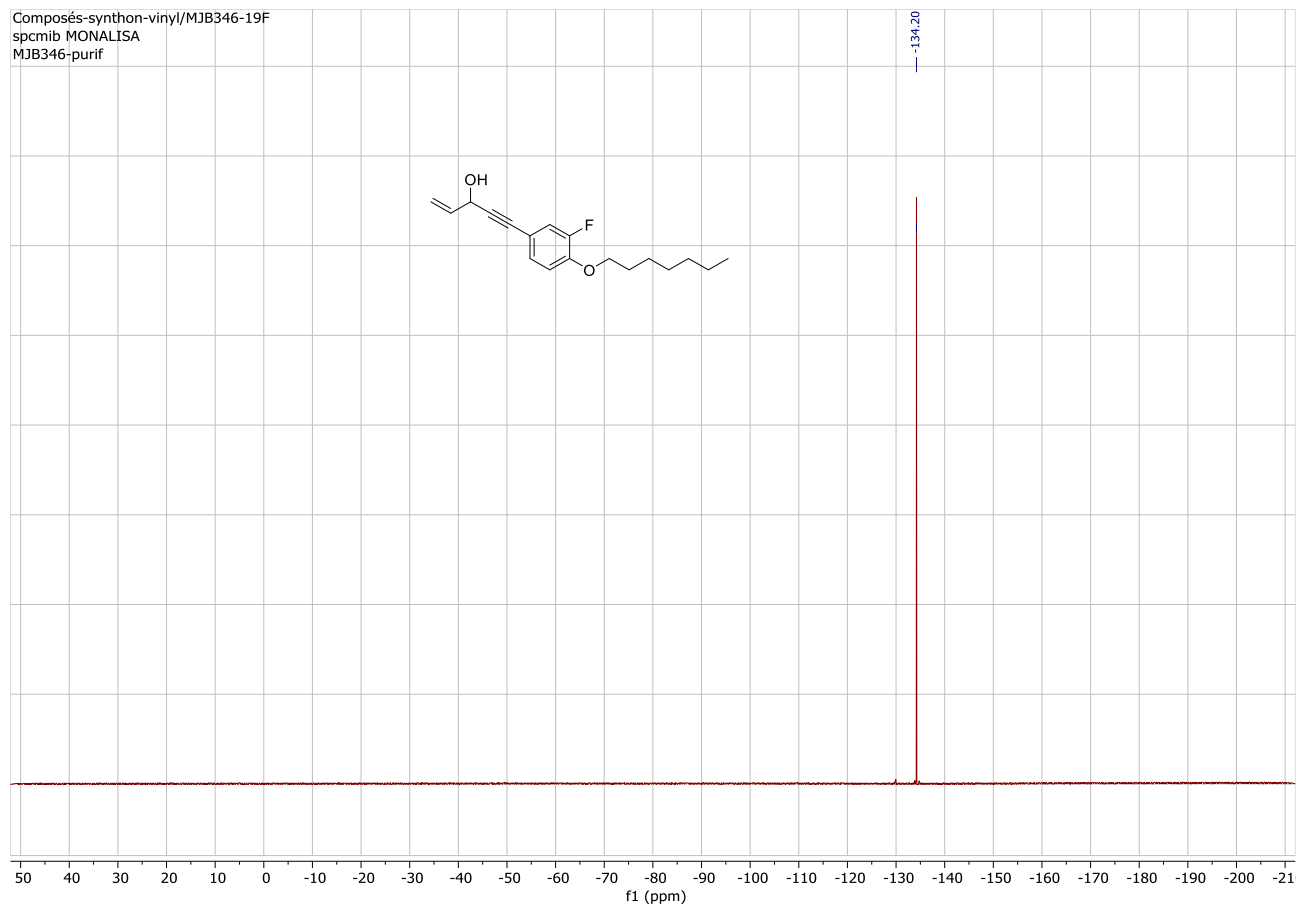
¹H NMR spectrum of compound **20** (300 MHz, CDCl₃)



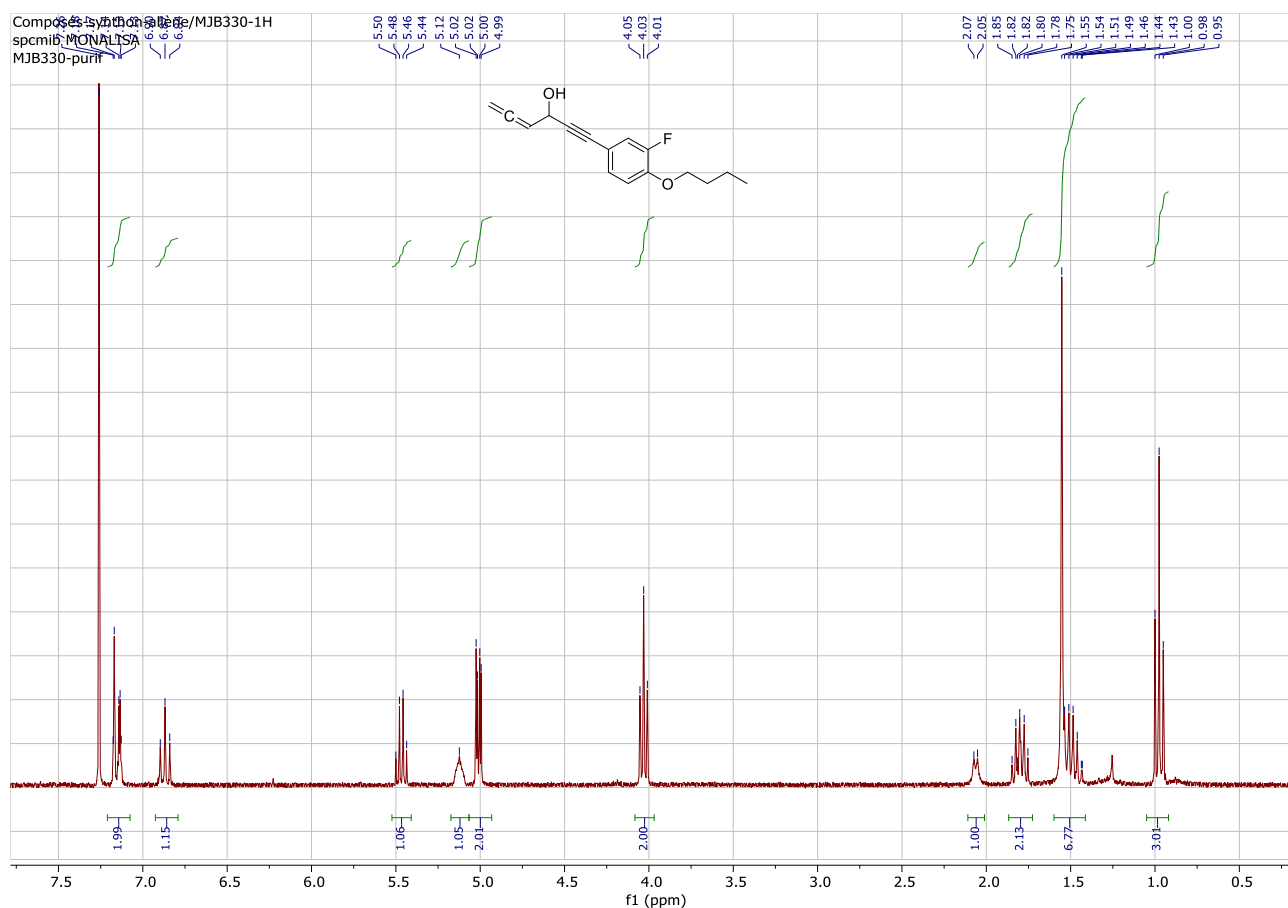
¹³C NMR spectrum of compound **20** (75 MHz, CDCl₃)



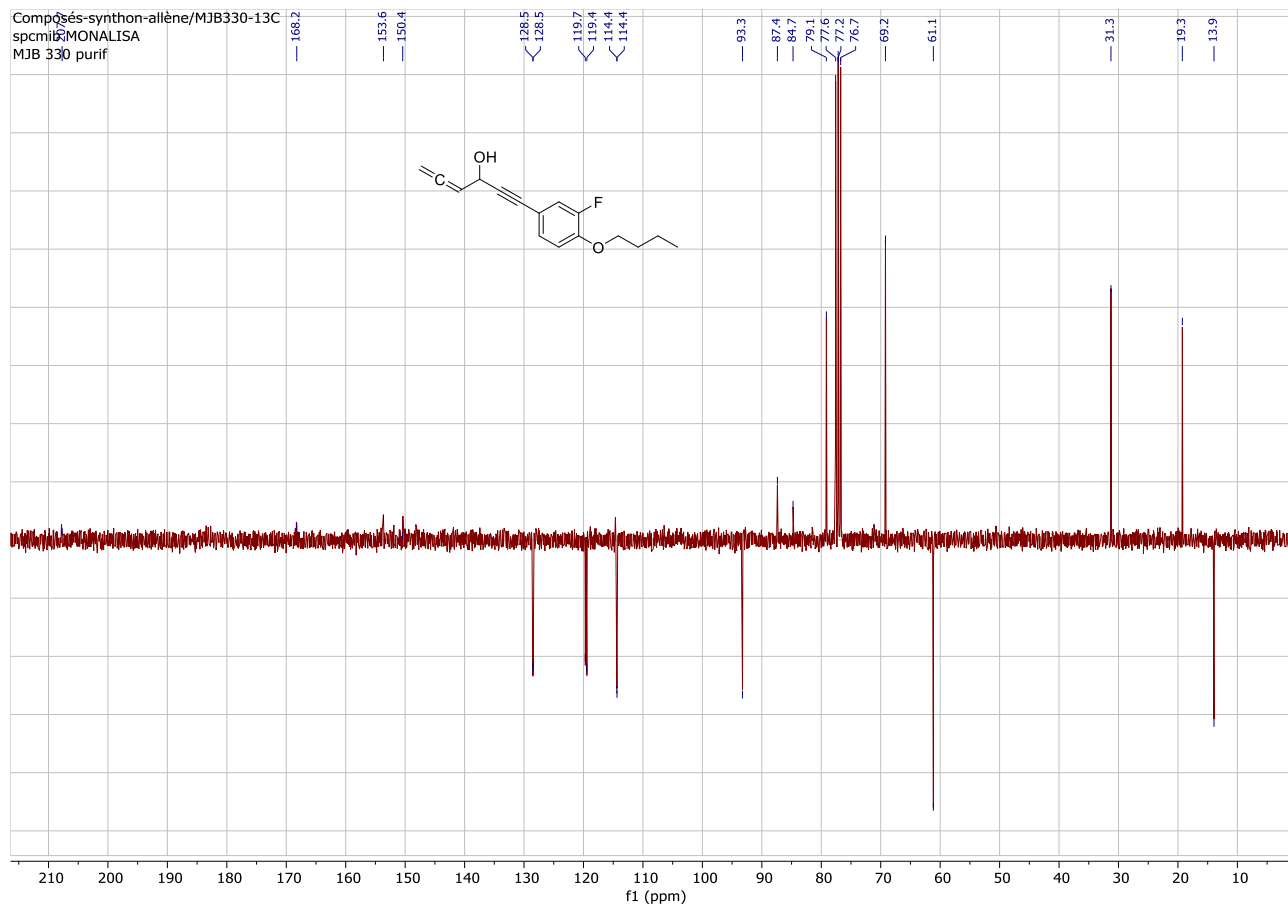
¹⁹F NMR spectrum of compound **20** (282 MHz, CDCl₃)



¹H NMR spectrum of compound **21** (300 MHz, CDCl₃)

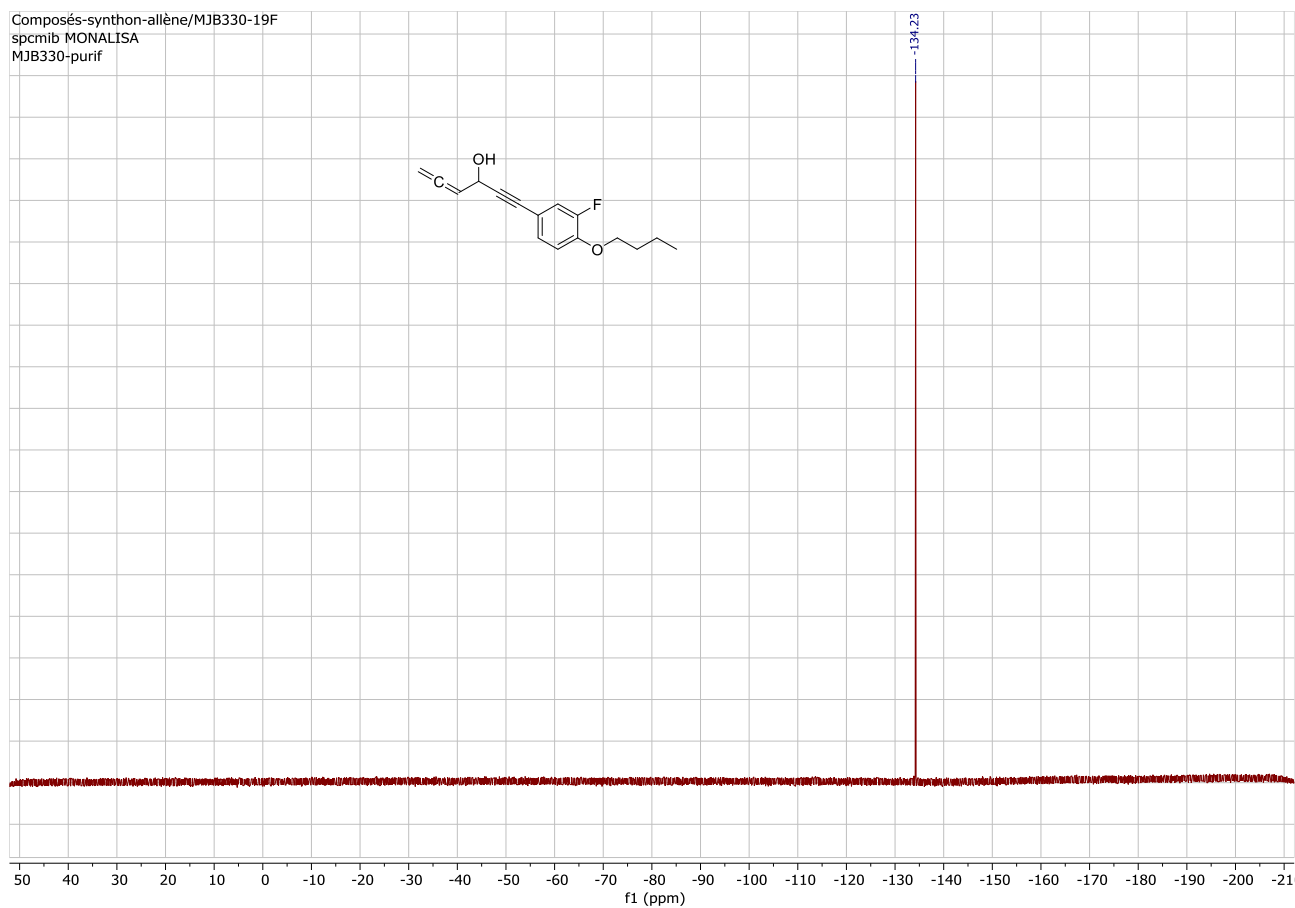


¹³C NMR spectrum of compound **21** (75 MHz, CDCl₃)



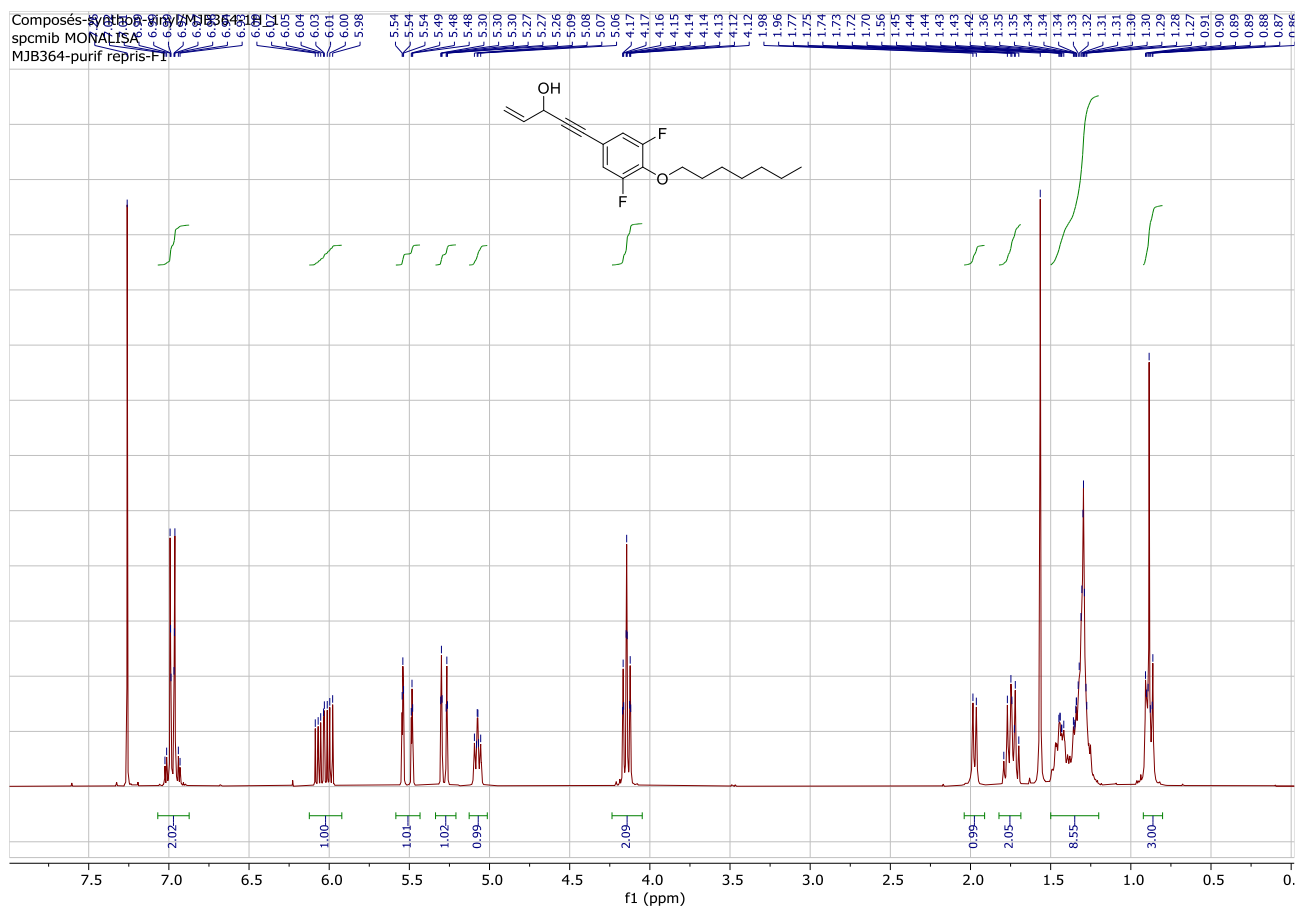
^{19}F NMR spectrum of compound **21 (282 MHz, CDCl_3)**

Composés-synthon-allène/MJB330-19F
spcmib MONALISA
MJB330-purif

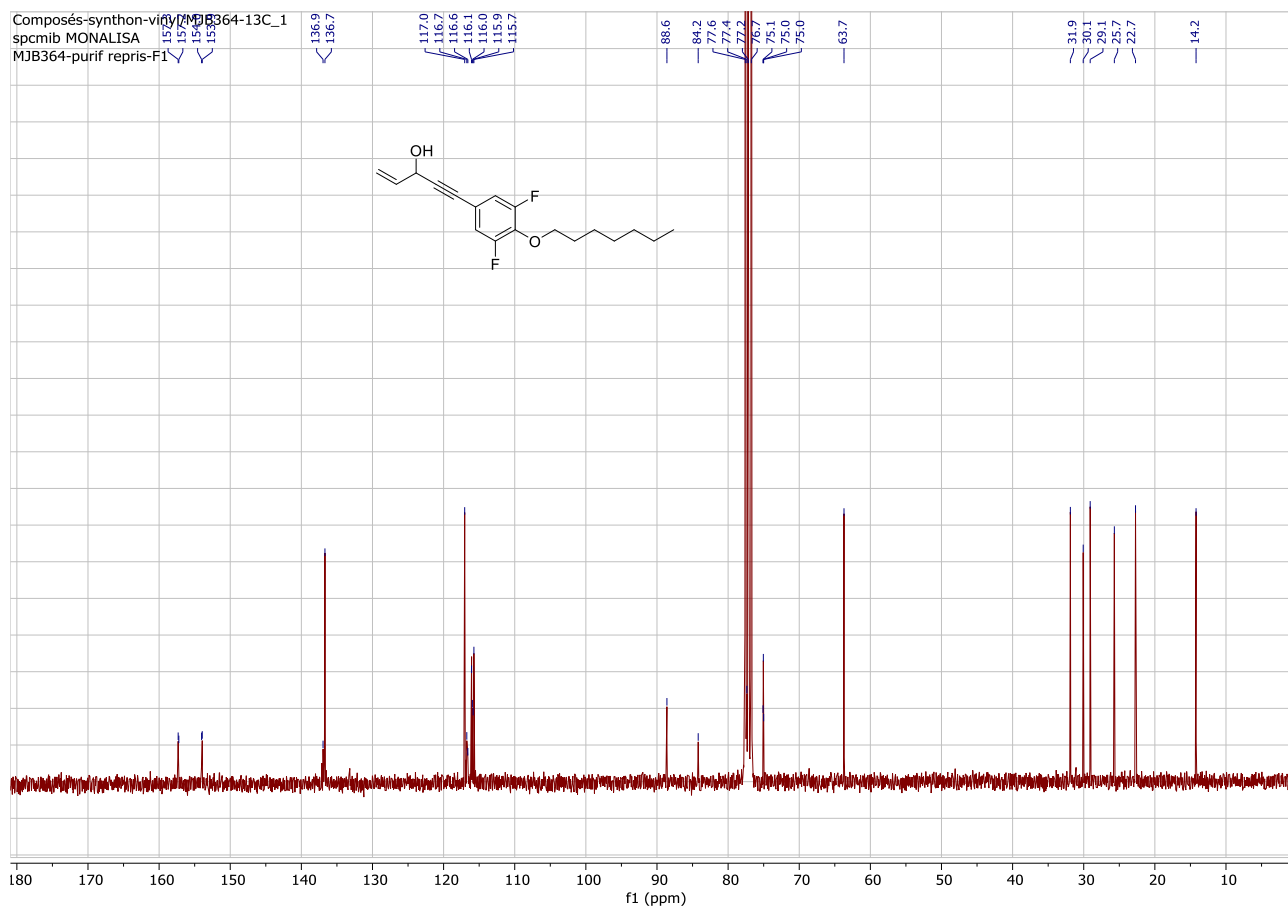


^1H NMR spectrum of compound **22 (300 MHz, CDCl_3)**

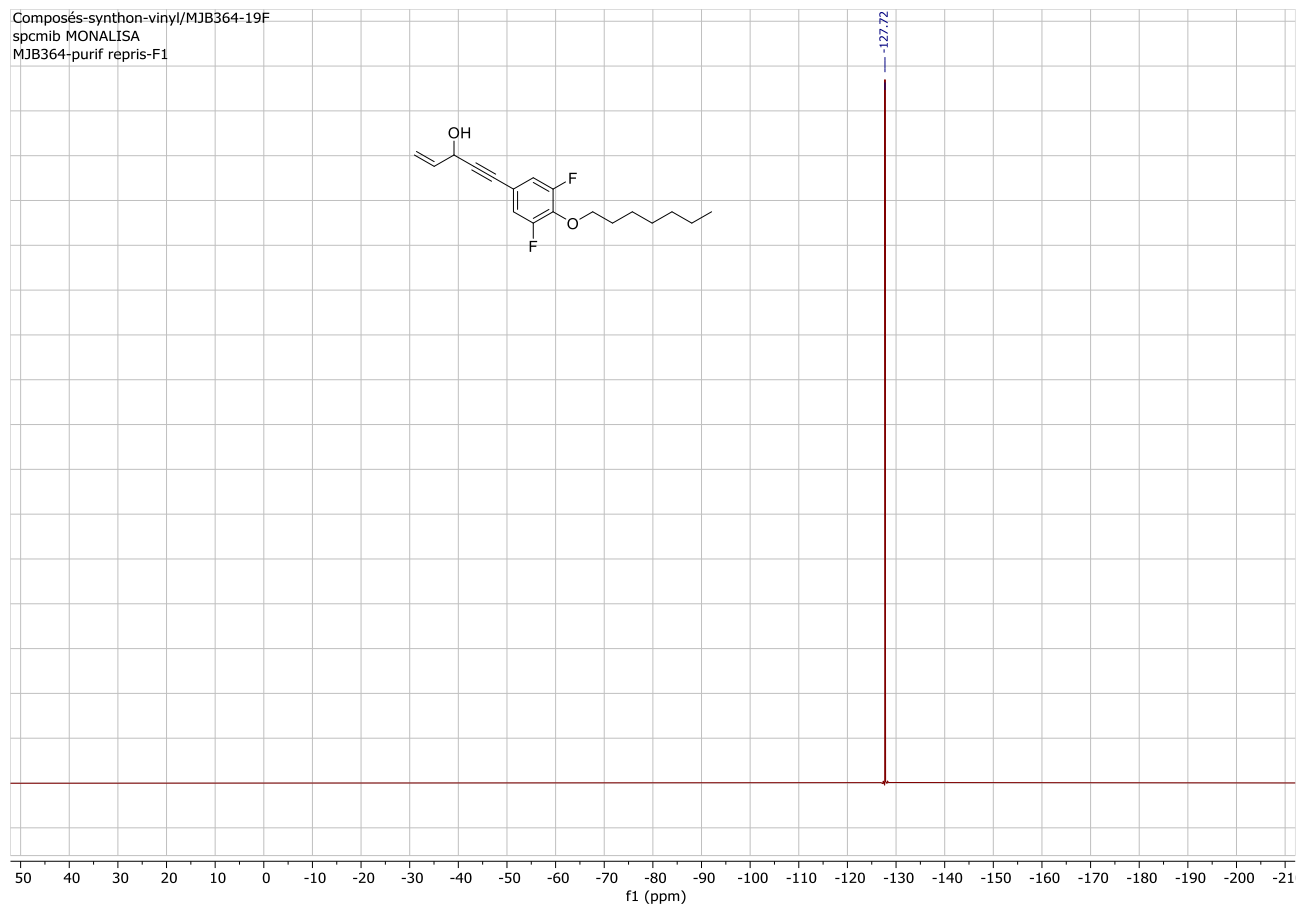
Composés-synthon-allène/MJB364-19F
spcmib MONALISA
MJB364-purif repris-F1



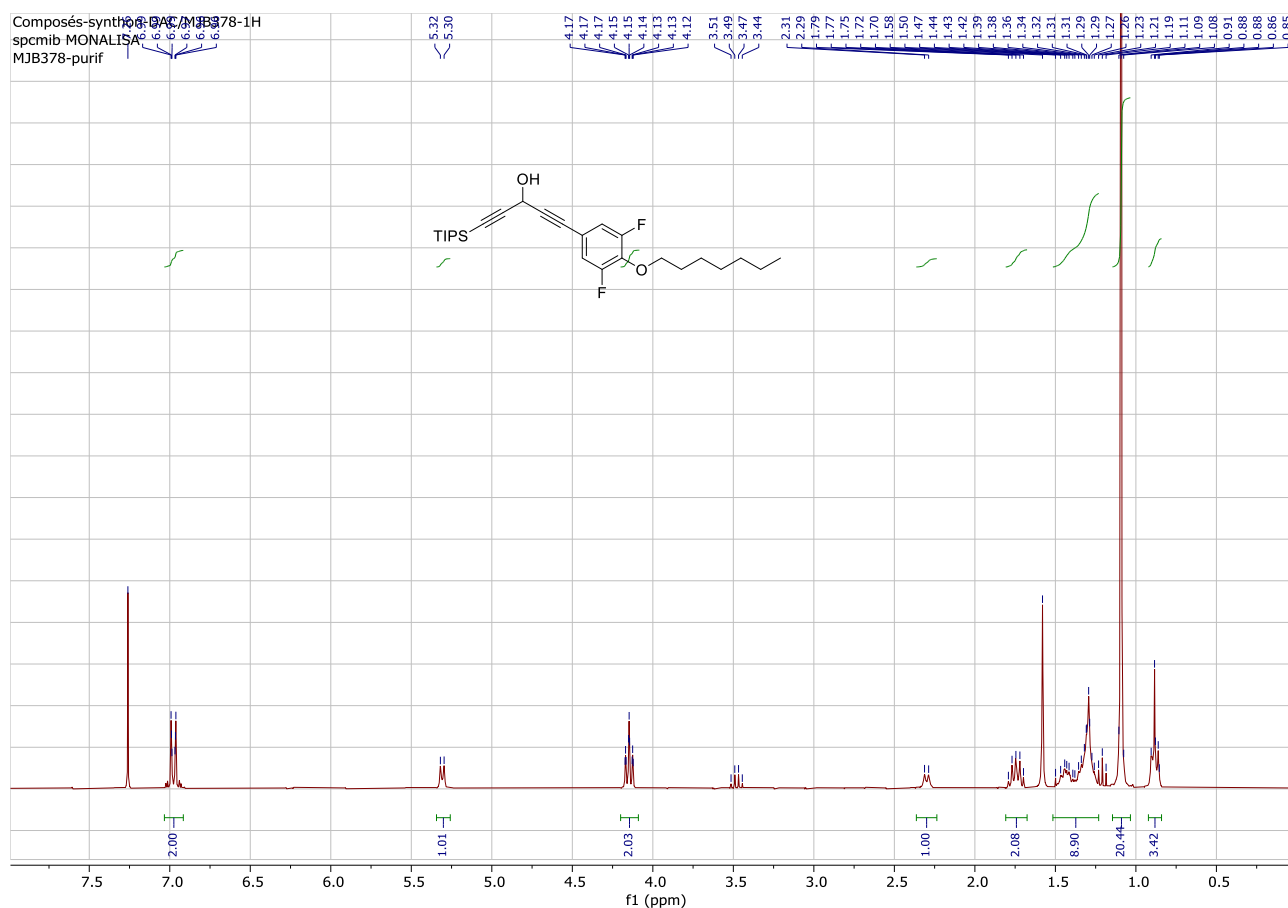
¹³C NMR spectrum of compound **22** (75 MHz, CDCl₃)



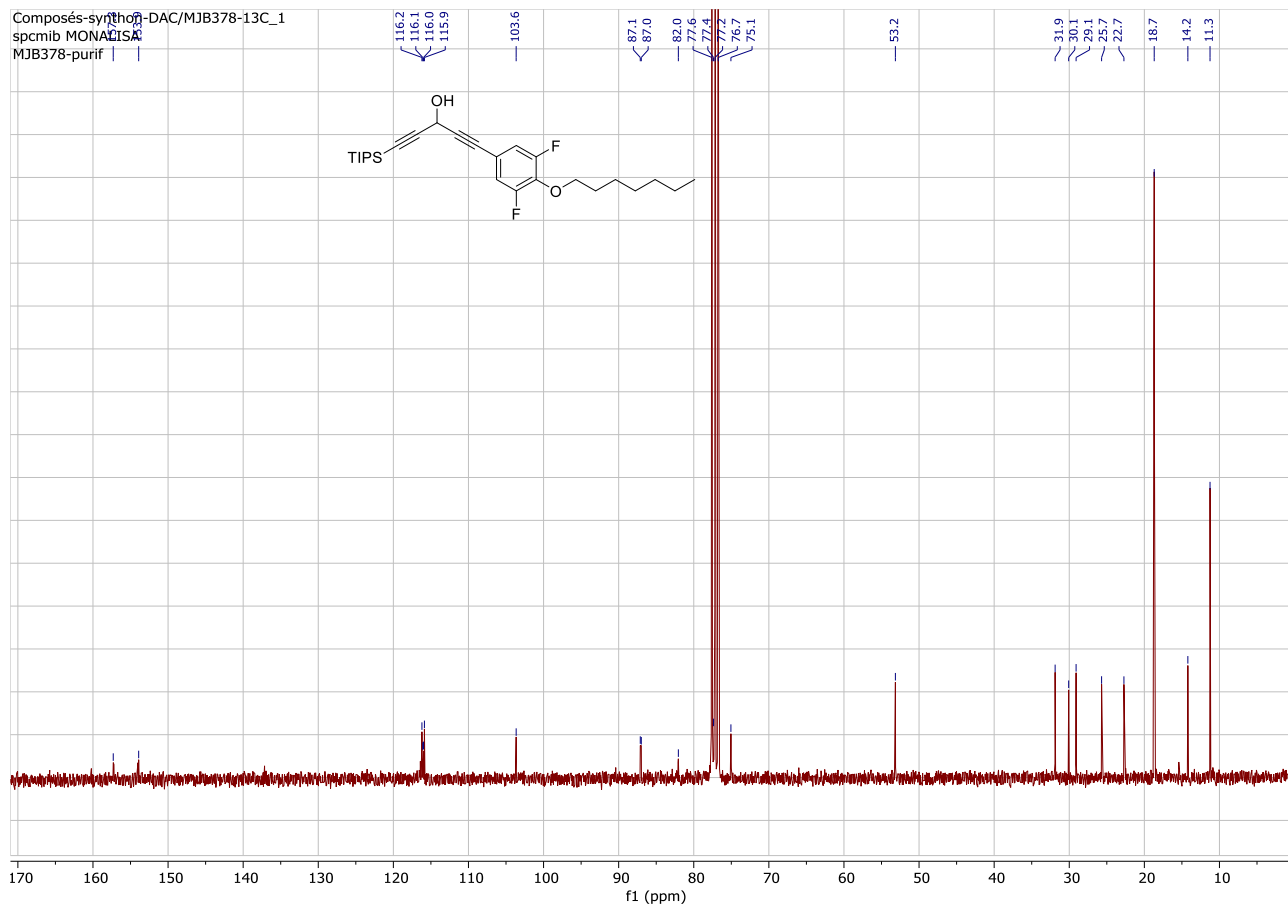
¹⁹F NMR spectrum of compound **22** (282 MHz, CDCl₃)



¹H NMR spectrum of compound **23** (300 MHz, CDCl₃)

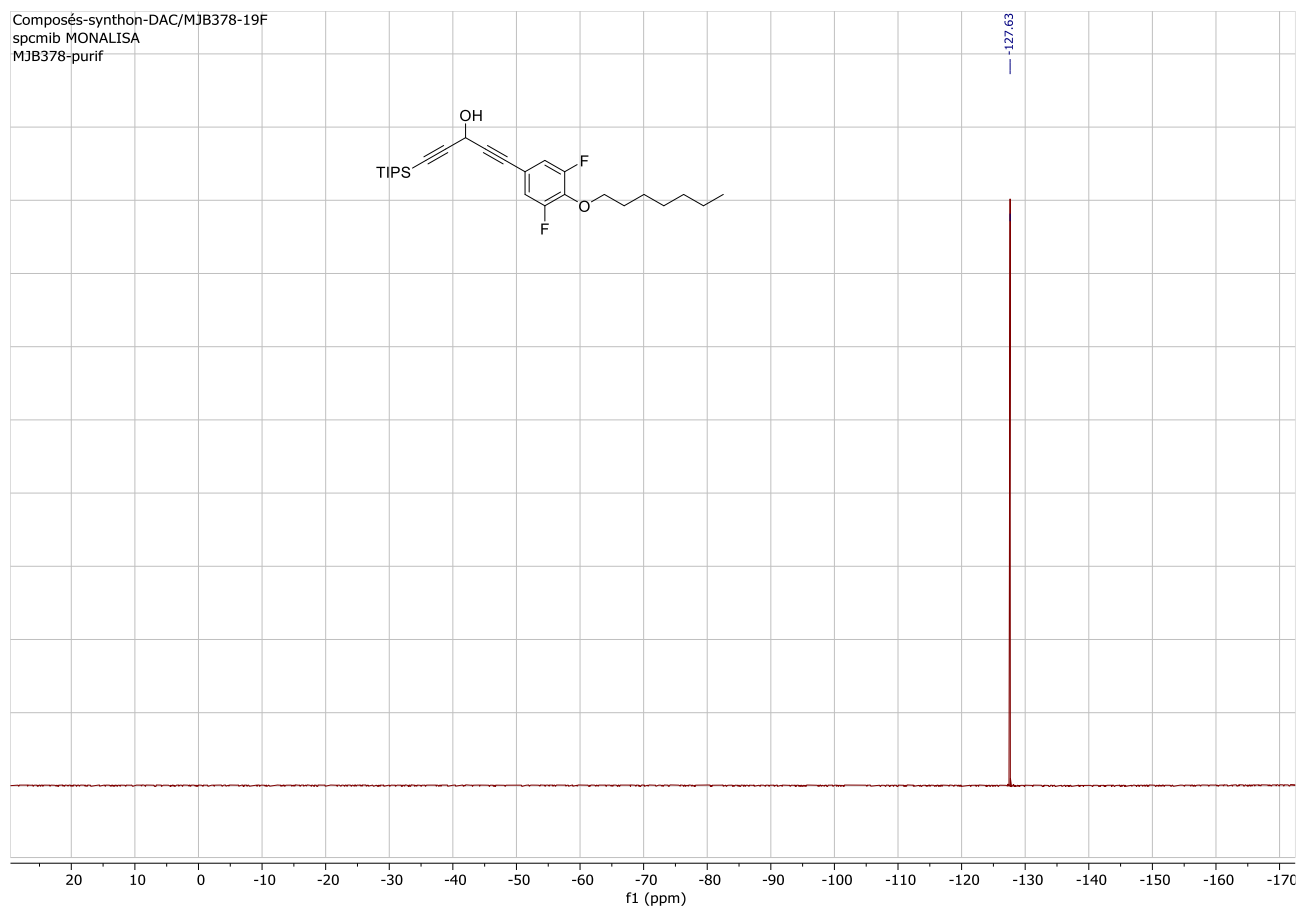


¹³C NMR spectrum of compound **23** (75 MHz, CDCl₃)



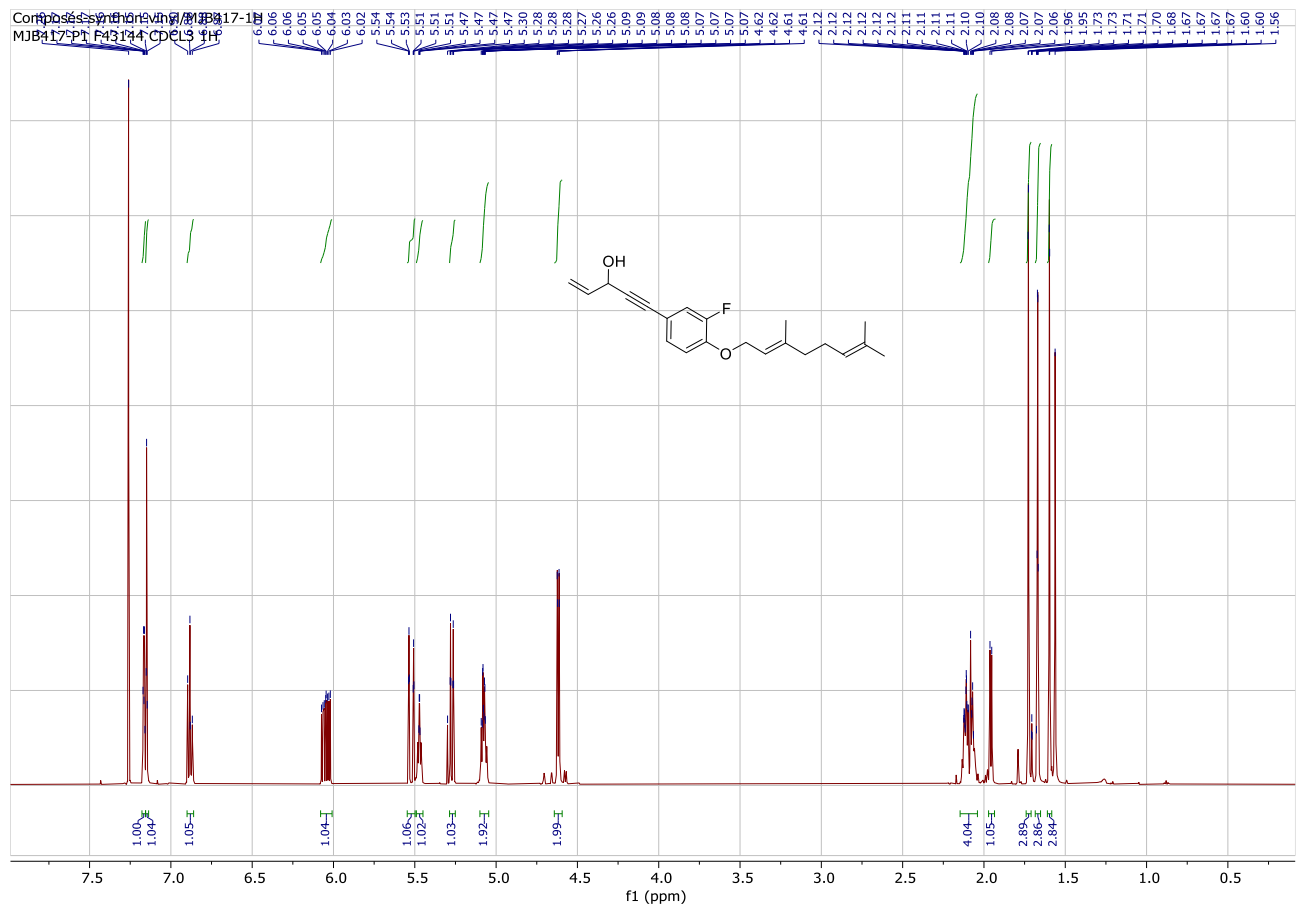
¹⁹F NMR spectrum of compound **23** (282 MHz, CDCl₃)

Composés-synthon-DAC/MJB378-19F
spcmib MONALISA
MJB378-purif

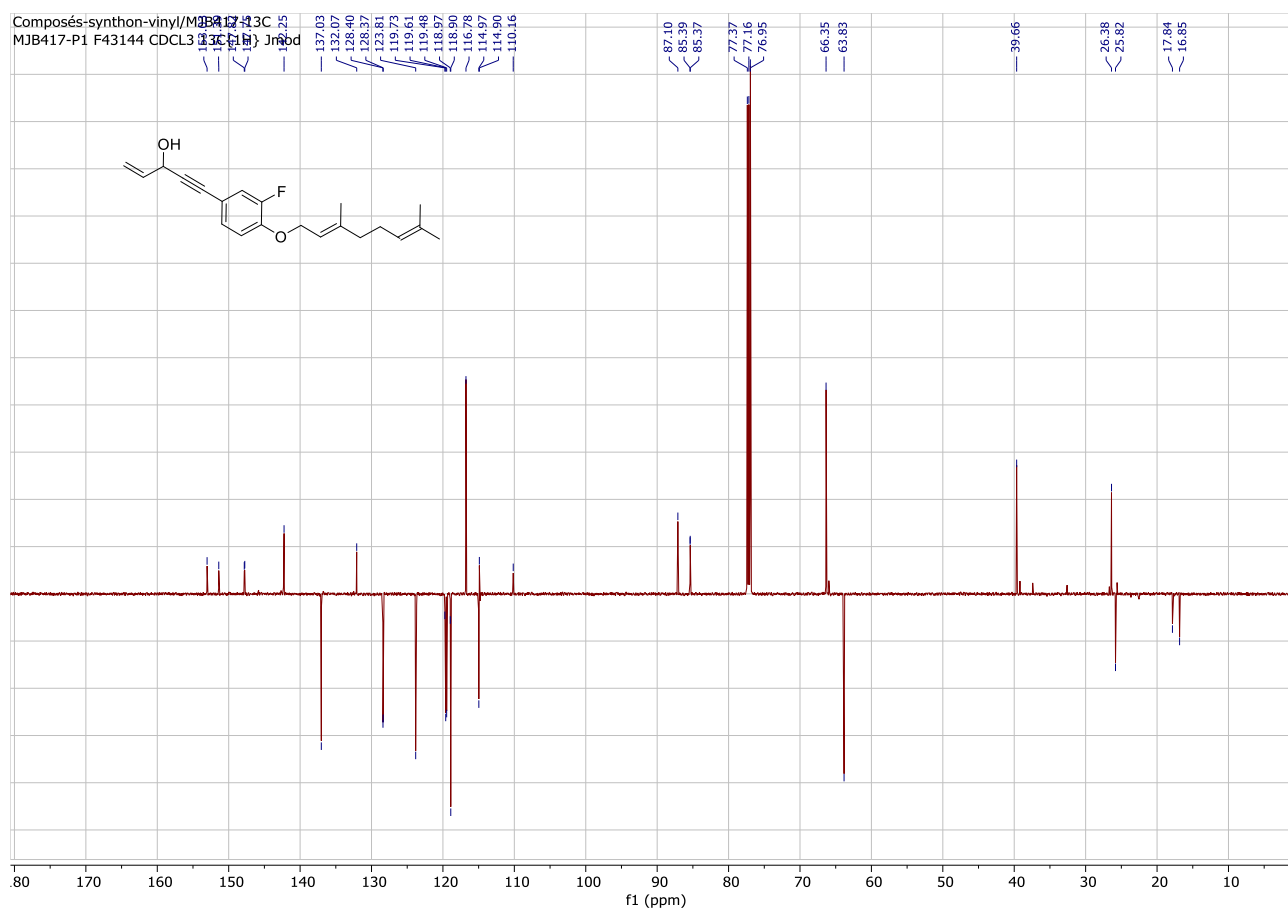


¹H NMR spectrum of compound **24** (600 MHz, CDCl₃)

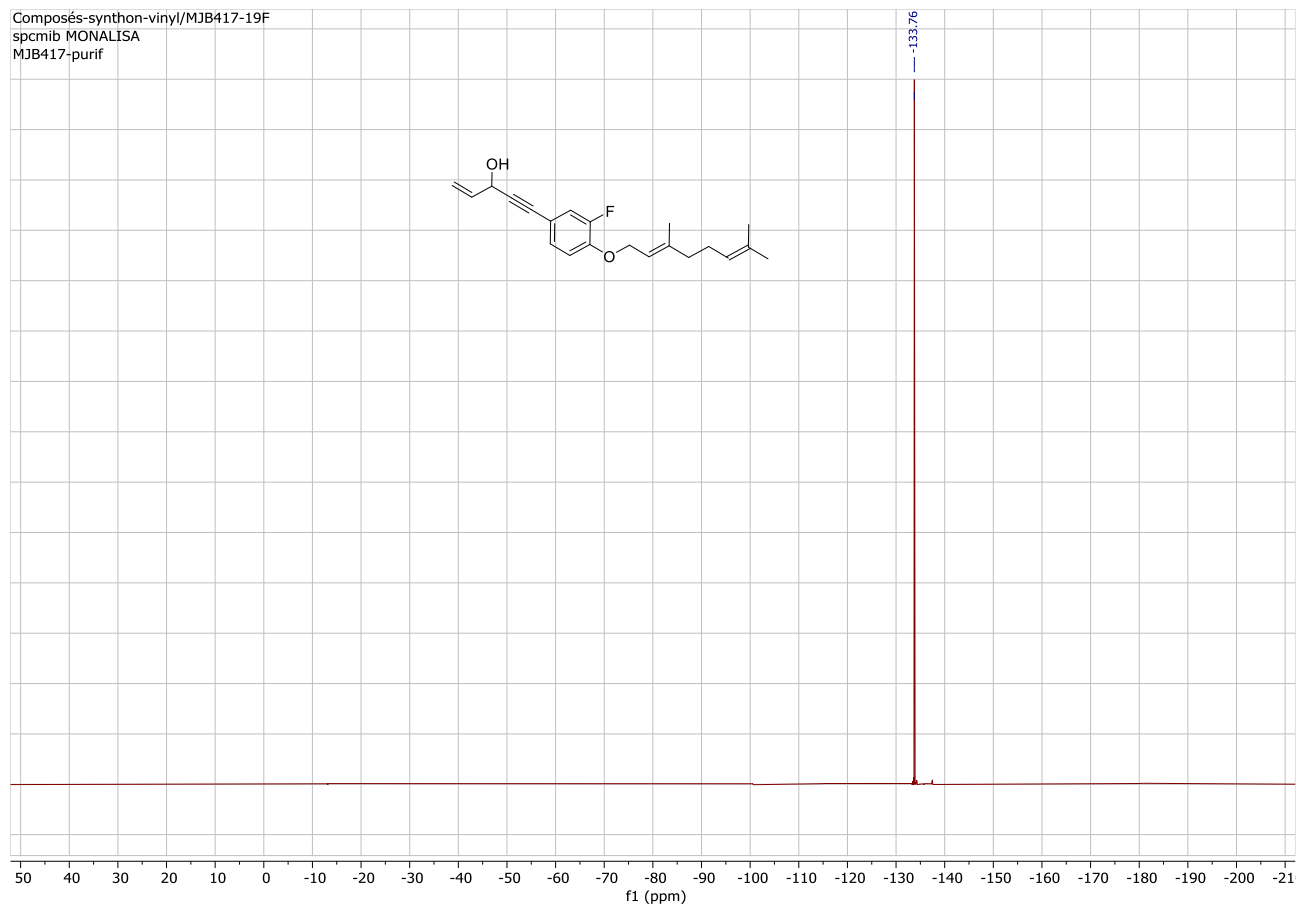
Composés-synthon-DAC/MJB378-19F
spcmib MONALISA
MJB378-purif



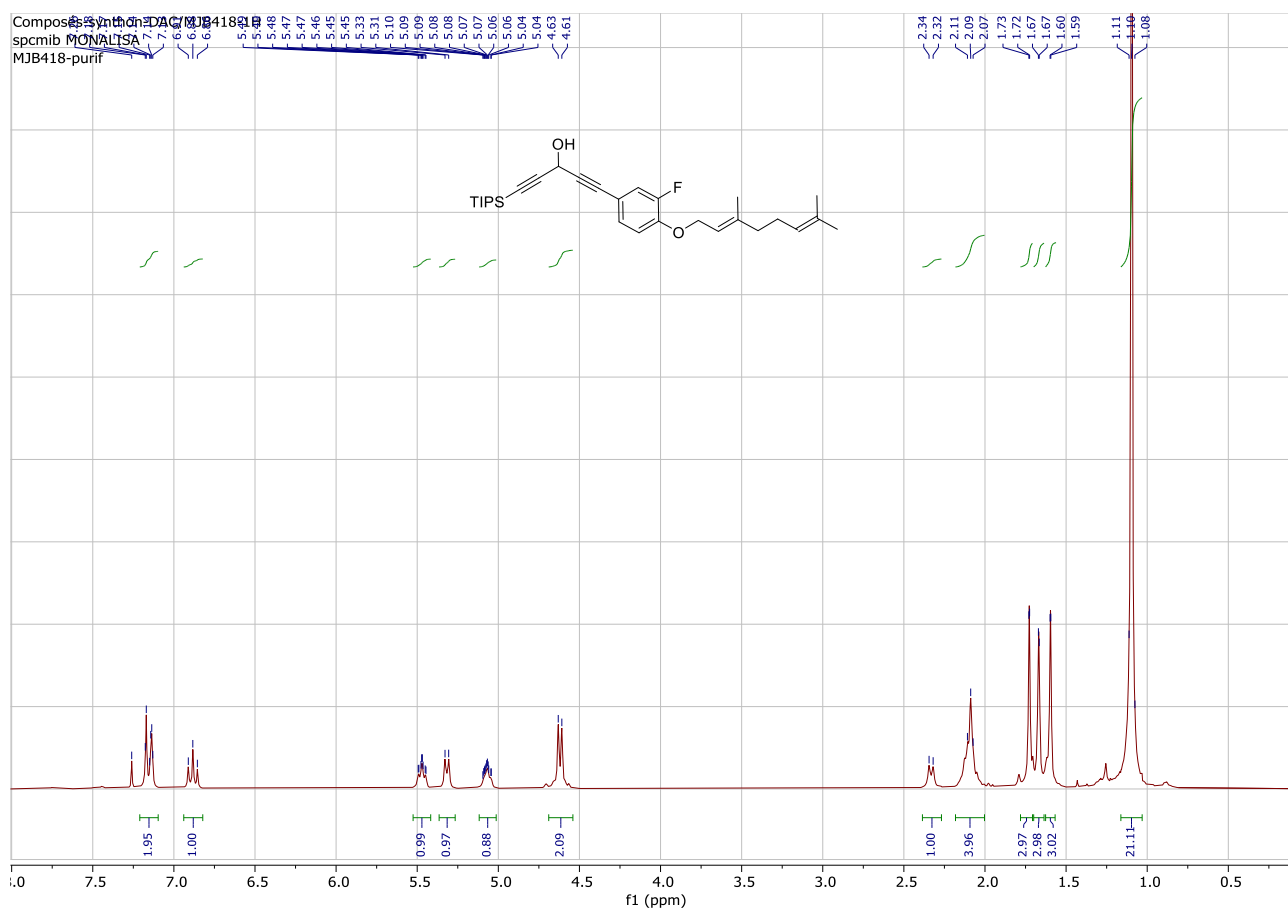
¹³C NMR spectrum of compound **24** (125 MHz, CDCl₃)



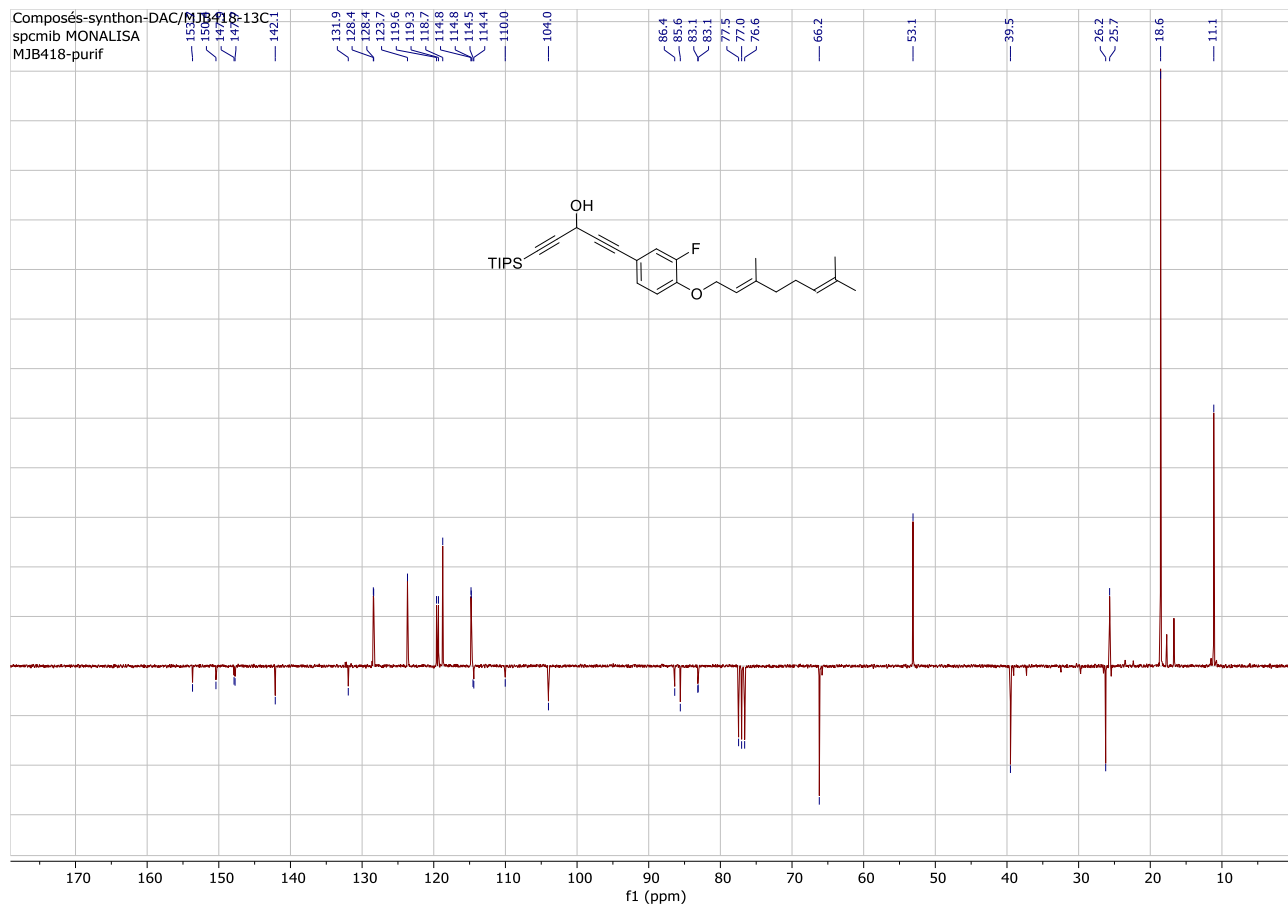
¹⁹F NMR spectrum of compound **24** (282 MHz, CDCl₃)



¹H NMR spectrum of compound **25** (300 MHz, CDCl₃)

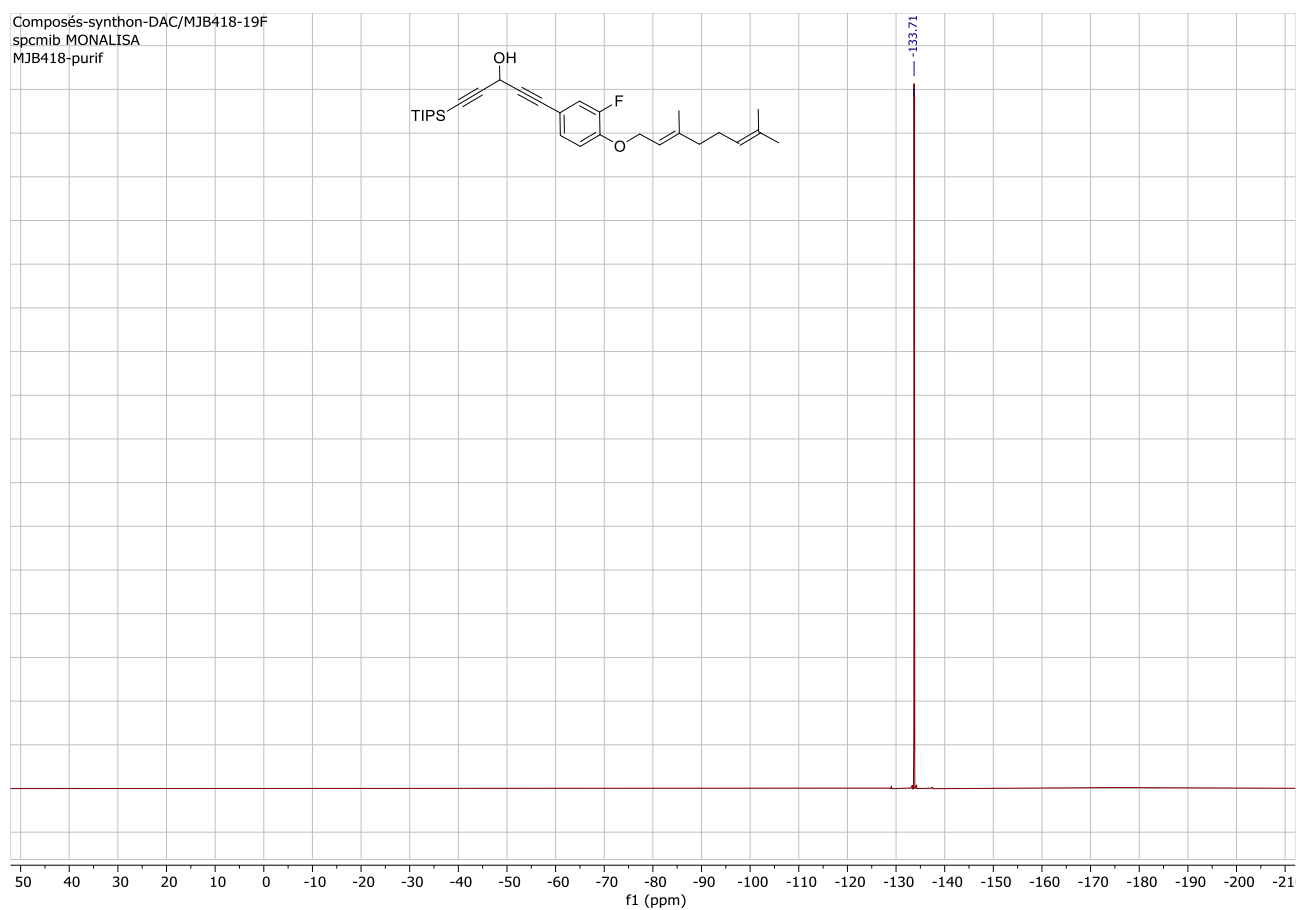


¹³C NMR spectrum of compound **25** (75 MHz, CDCl₃)



¹⁹F NMR spectrum of compound **25** (282 MHz, CDCl₃)

Composés-synthon-DAC/MJB418-19F
spcmib MONALISA
MJB418-purif



bossuat_m_300a.198.fid
spcmib MONALISA
MJB153-purif repris

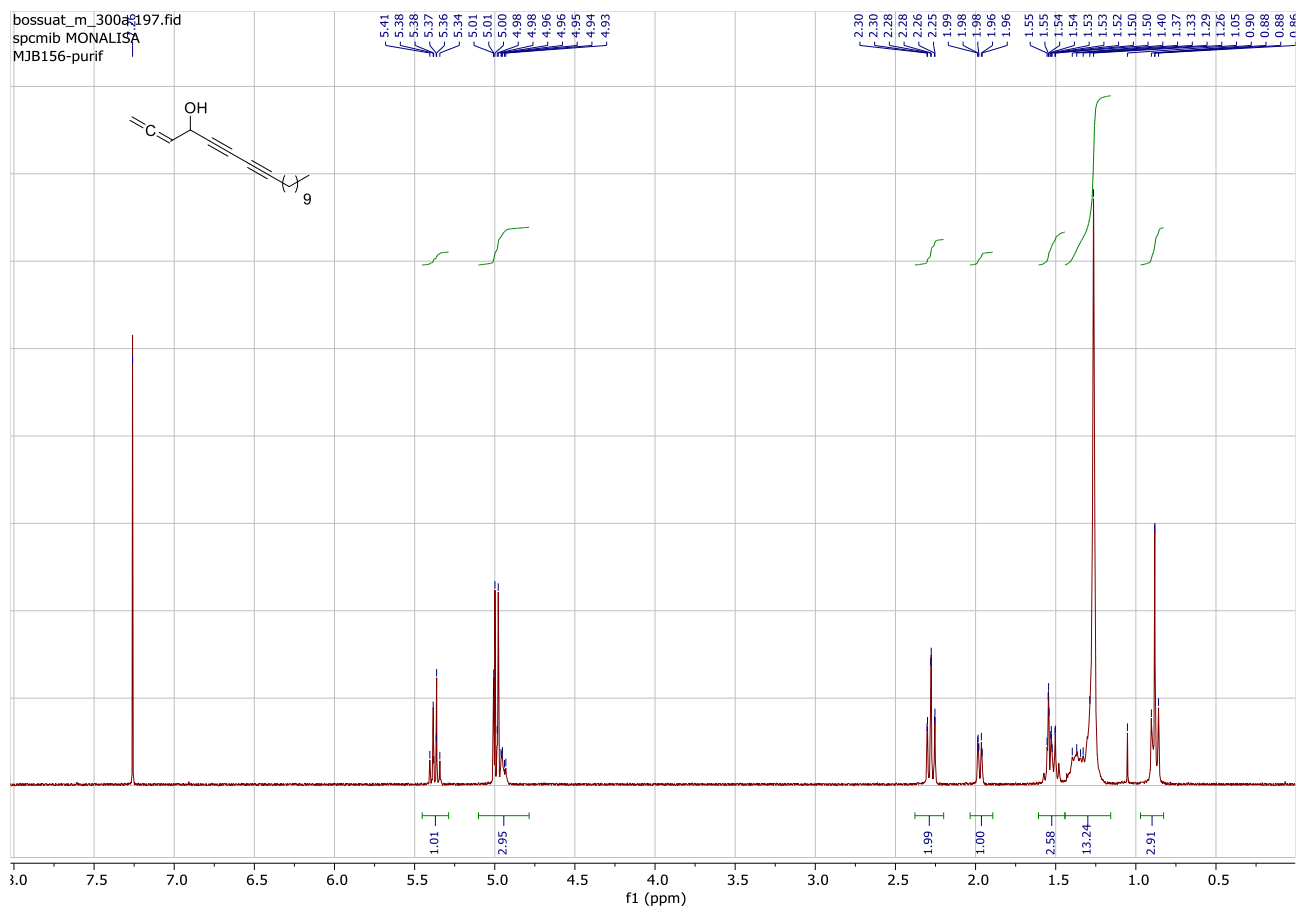
Chemical structure: CCCCCCCC#CC(O)C=C

Integration values (from left to right): 1.02, 1.01, 1.00, 0.99, 1.94, 1.00, 2.47, 13.25, 2.96.

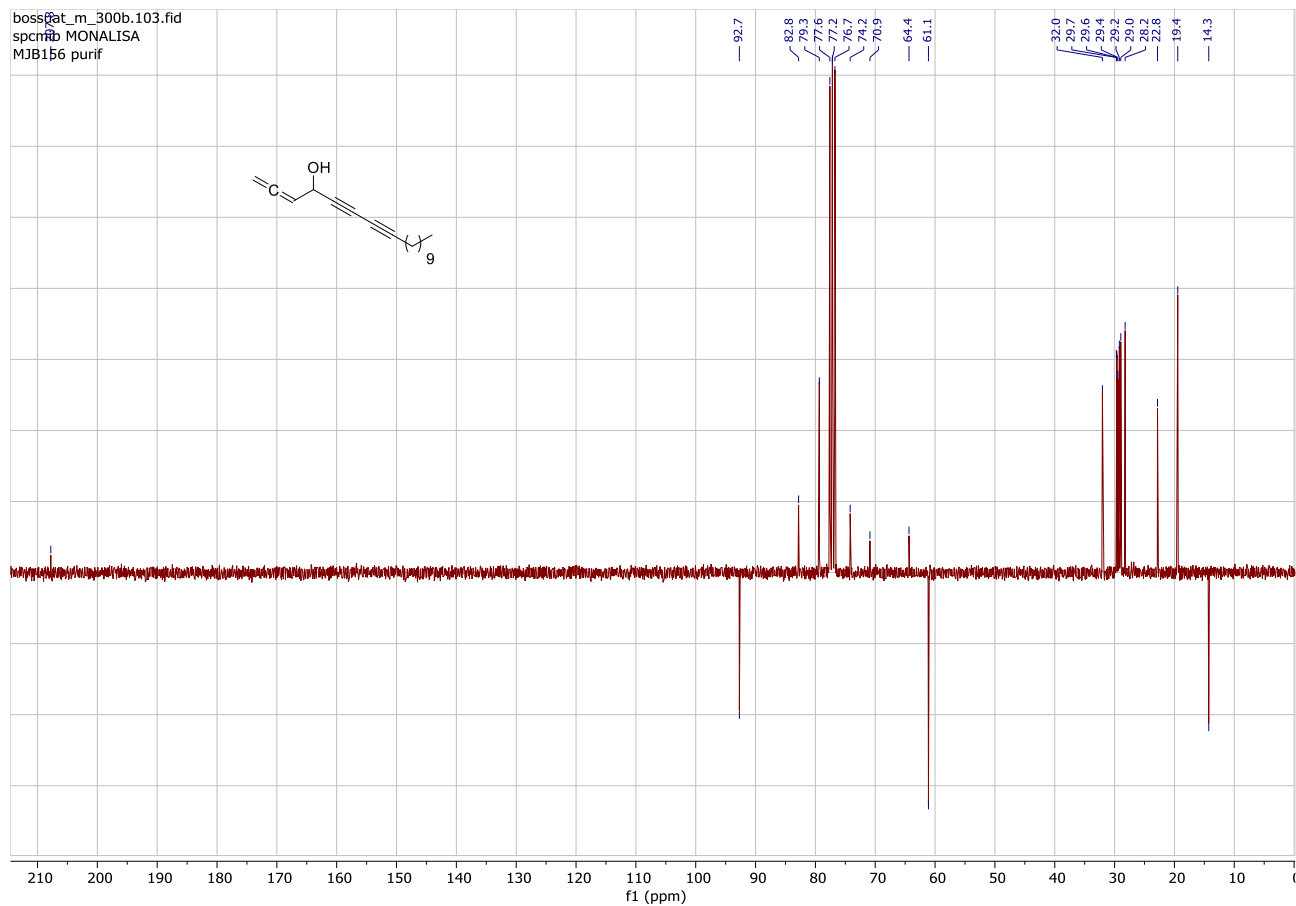
Peak list (ppm): 6.01, 5.99, 5.97, 5.95, 5.93, 5.91, 5.52, 5.52, 5.51, 5.46, 5.46, 5.46, 5.28, 5.25, 5.24, 4.96, 4.95, 4.94, 4.94, 4.94, 4.93, 4.92, 2.33, 2.32, 2.30, 2.30, 2.28, 2.28, 1.99, 1.89, 1.88, 1.87, 1.86, 1.58, 1.57, 1.56, 1.55, 1.55, 1.55, 1.53, 1.39, 1.37, 1.35, 1.28, 0.92, 0.90.

[illegible]

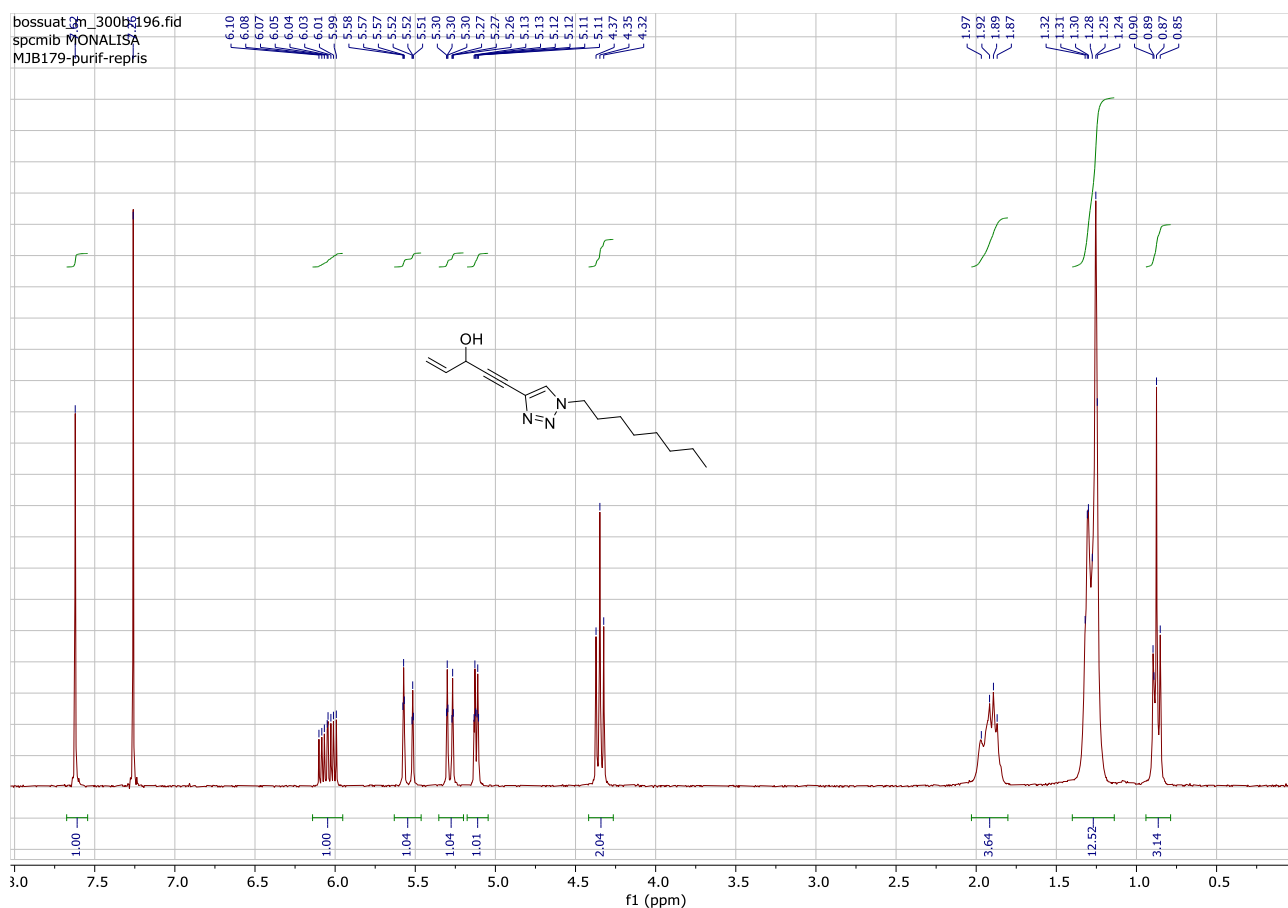
¹H NMR spectrum of compound **27** (300 MHz, CDCl₃)



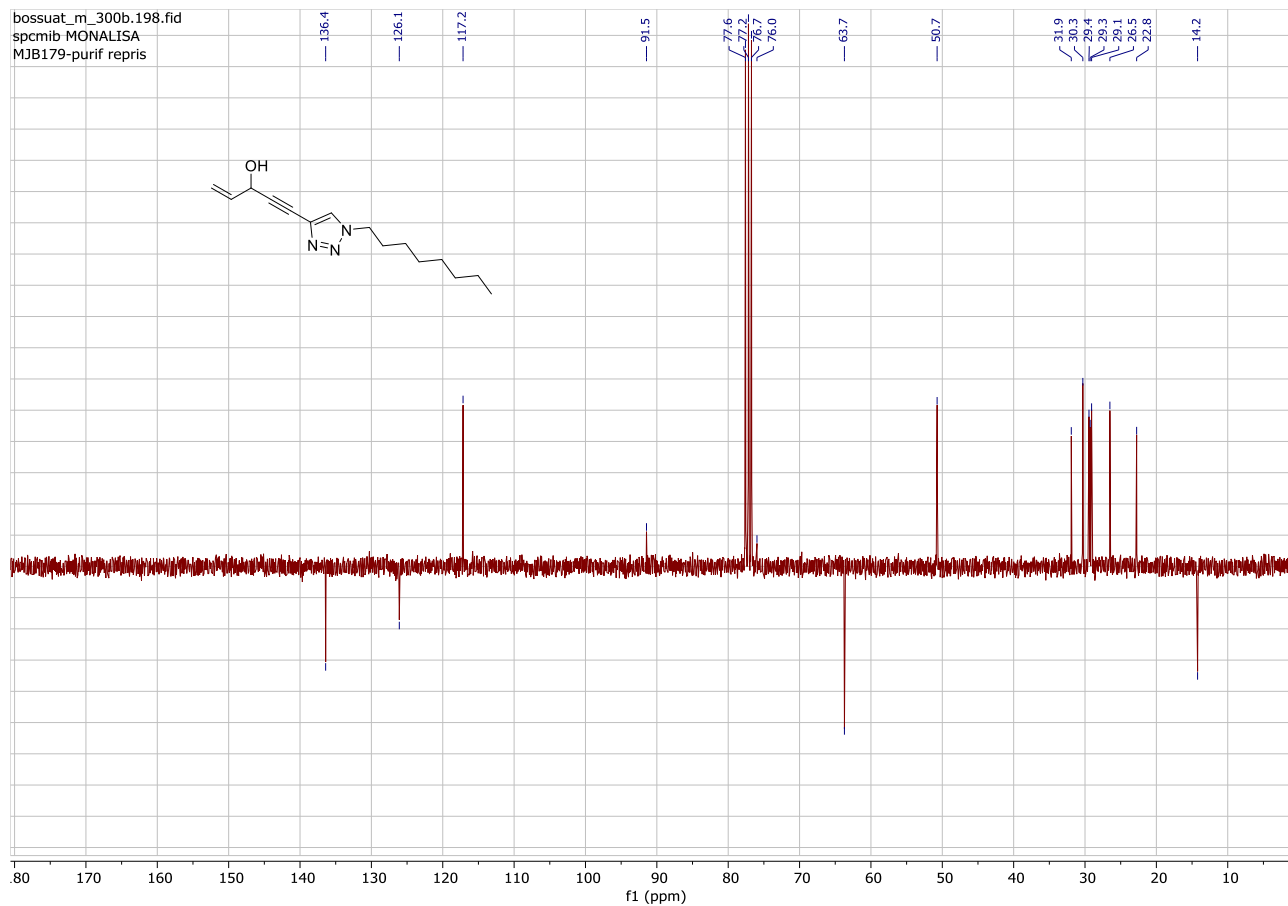
¹³C NMR spectrum of compound **27** (75 MHz, CDCl₃)



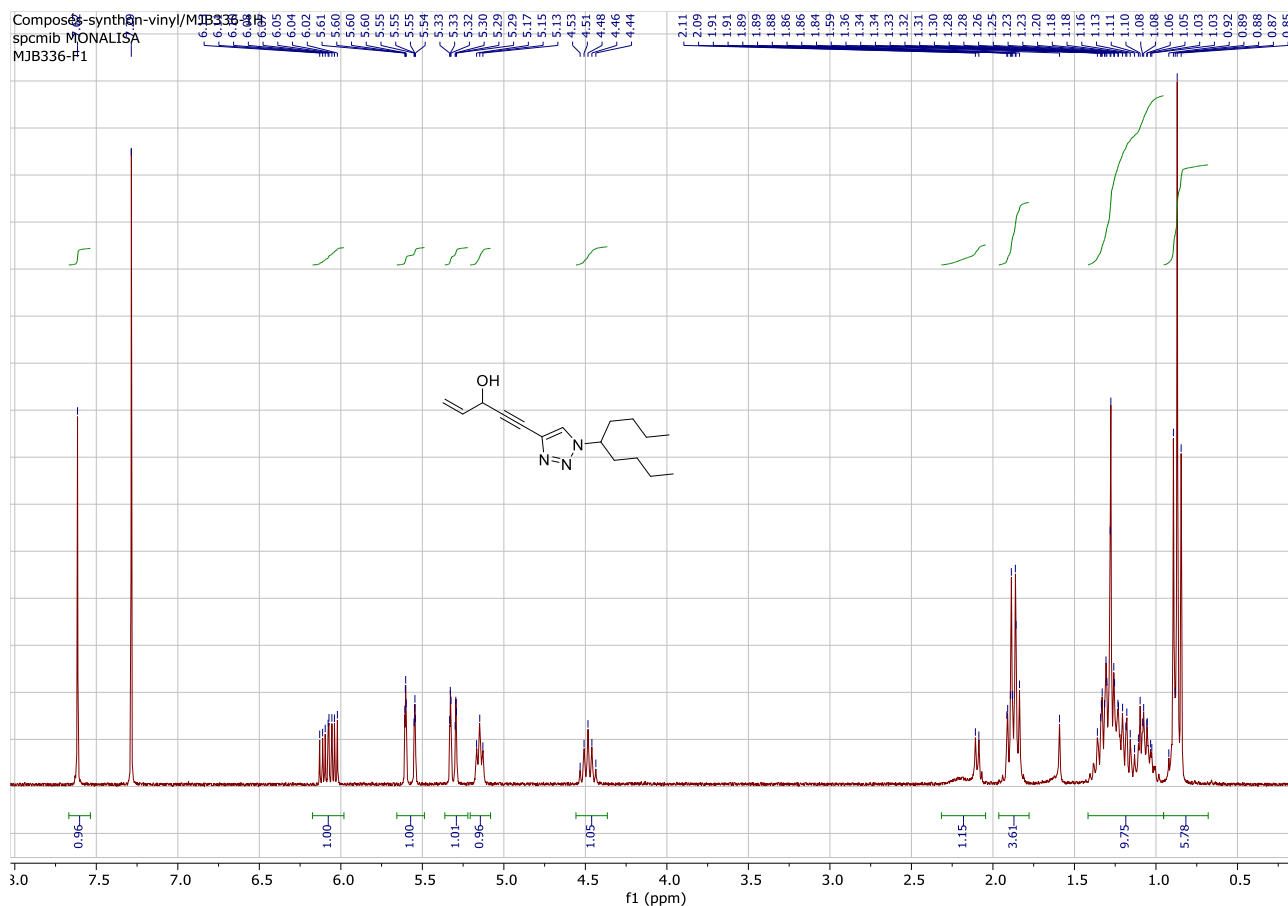
¹H NMR spectrum of compound **28** (300 MHz, CDCl₃)



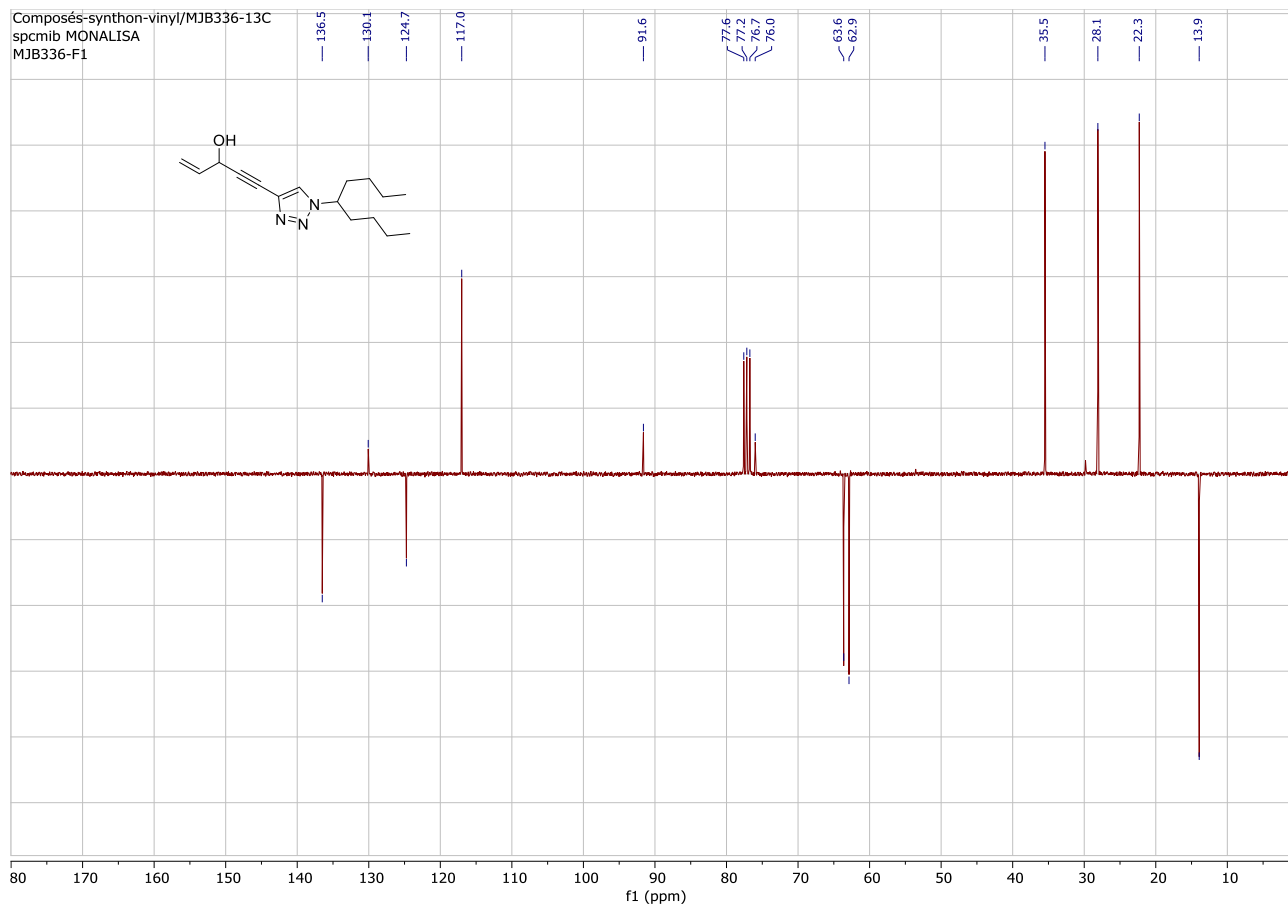
¹³C NMR spectrum of compound **28** (75 MHz, CDCl₃)



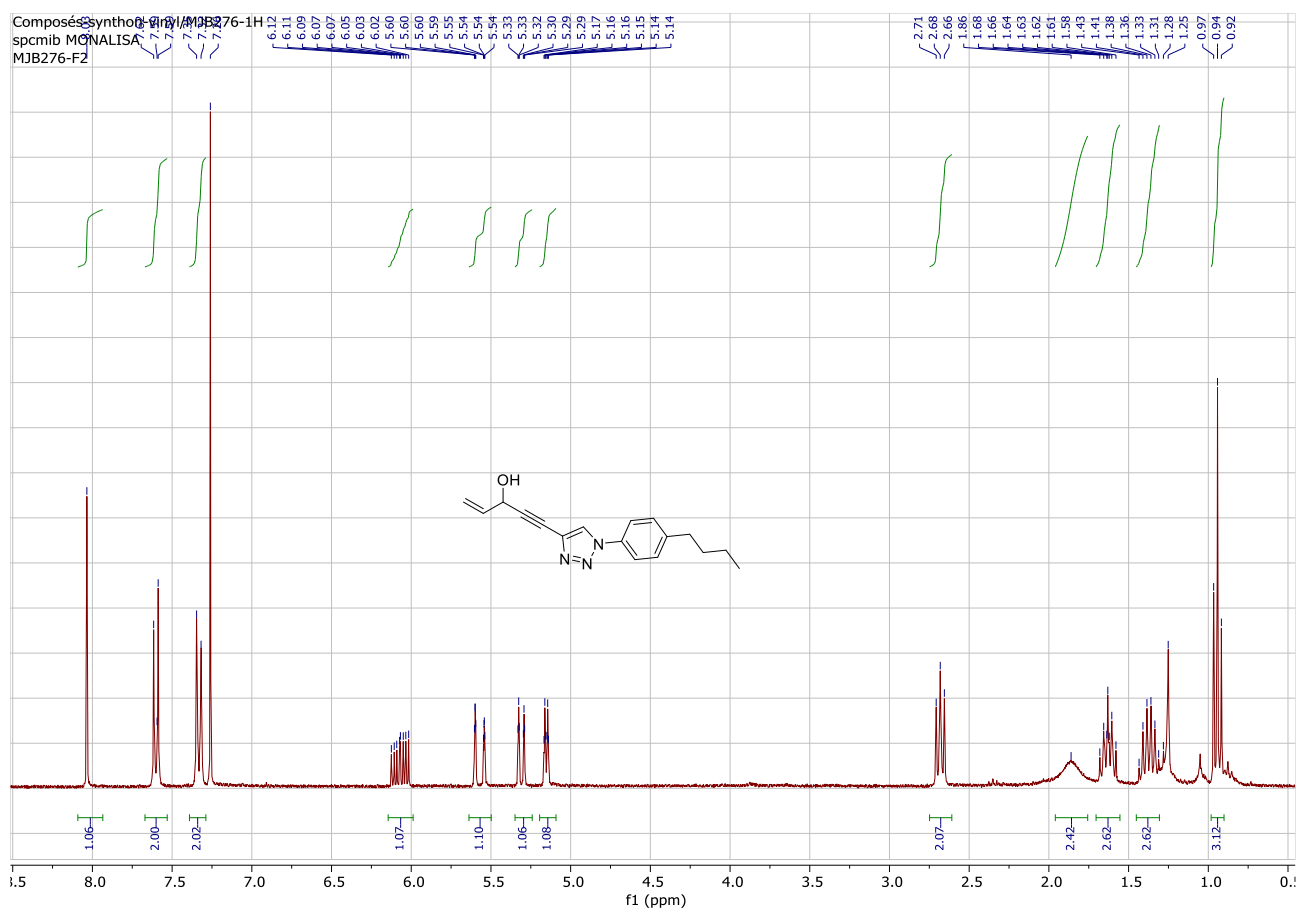
¹H NMR spectrum of compound **29** (300 MHz, CDCl₃)



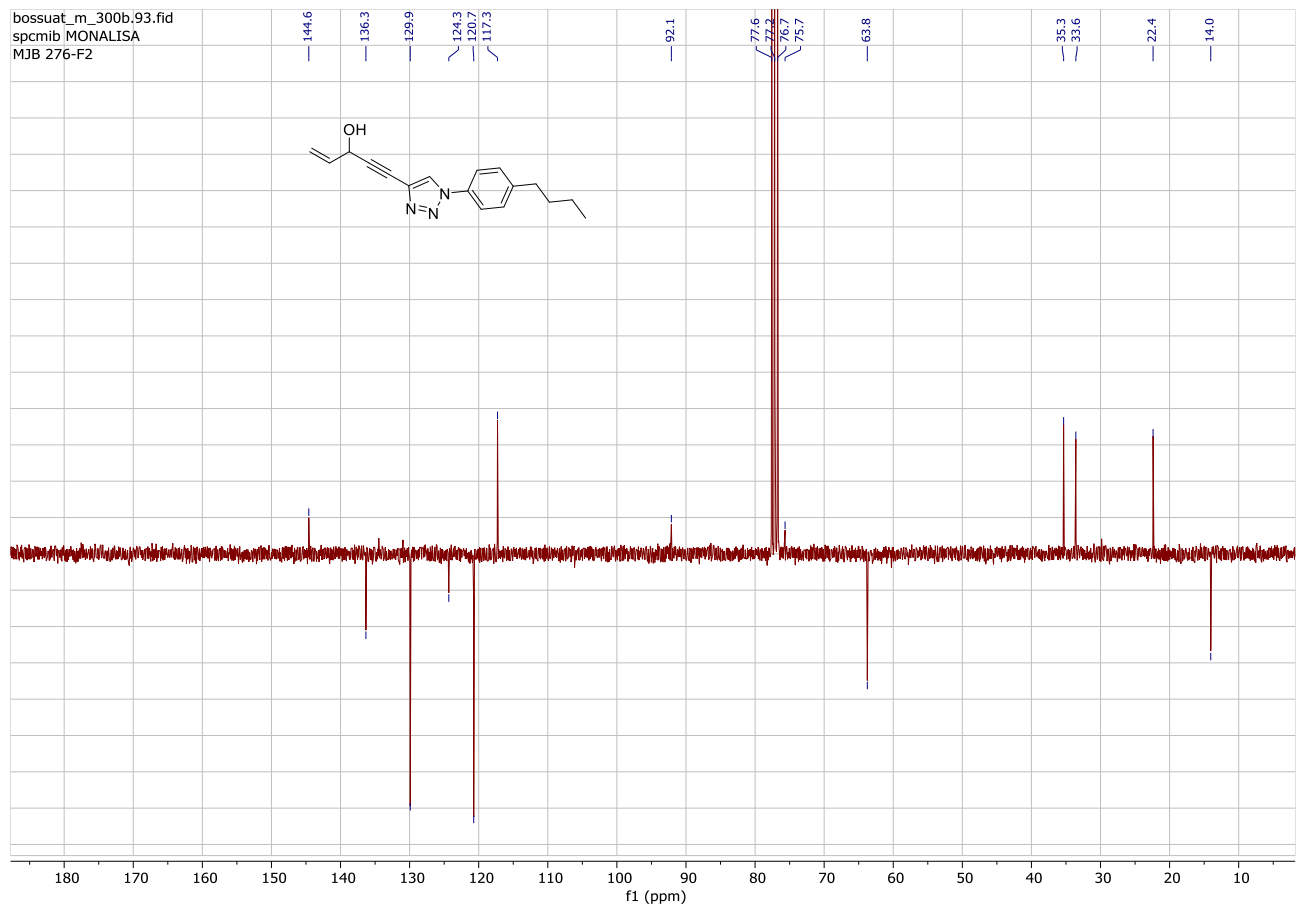
¹³C NMR spectrum of compound **29** (75 MHz, CDCl₃)



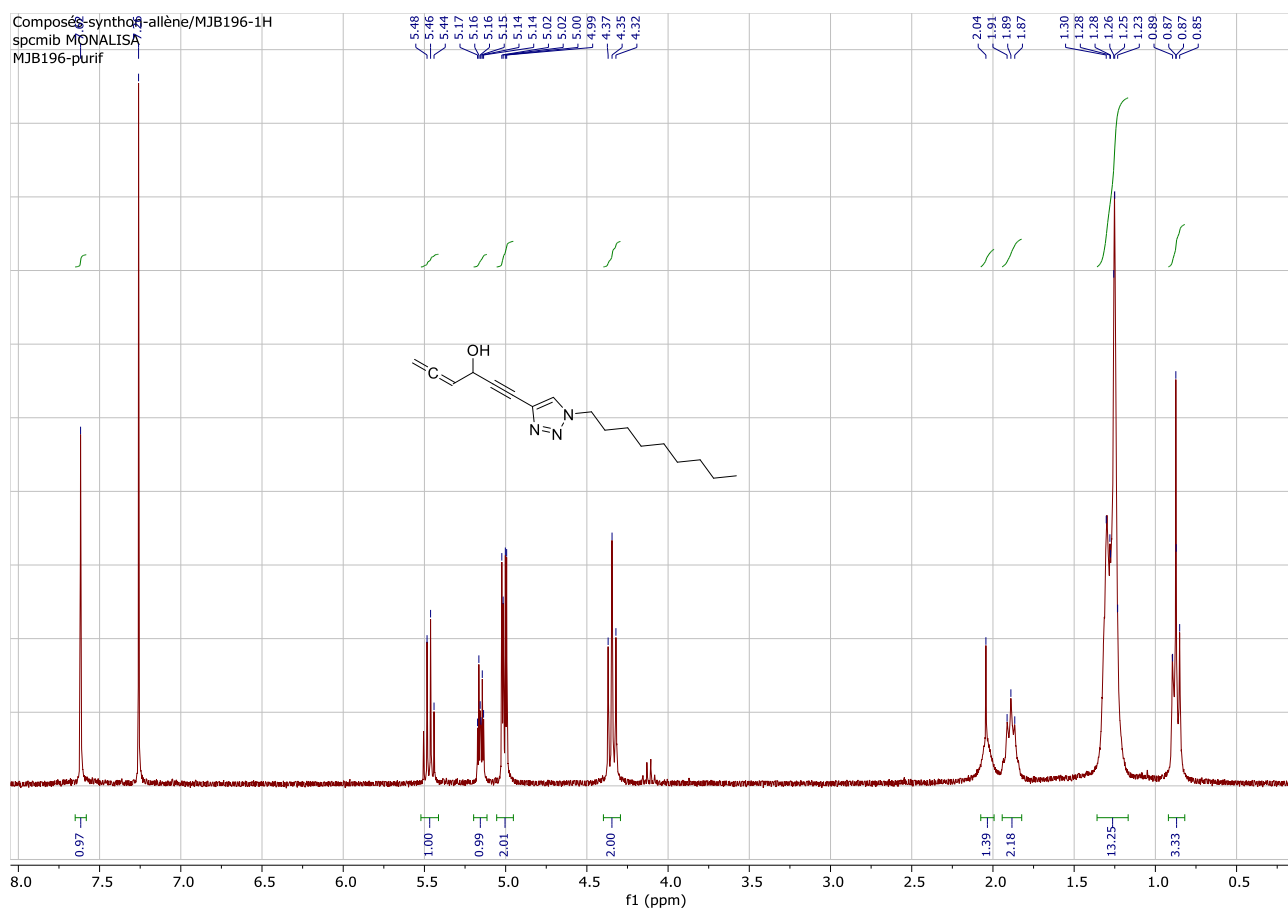
¹H NMR spectrum of compound **30** (300 MHz, CDCl₃)



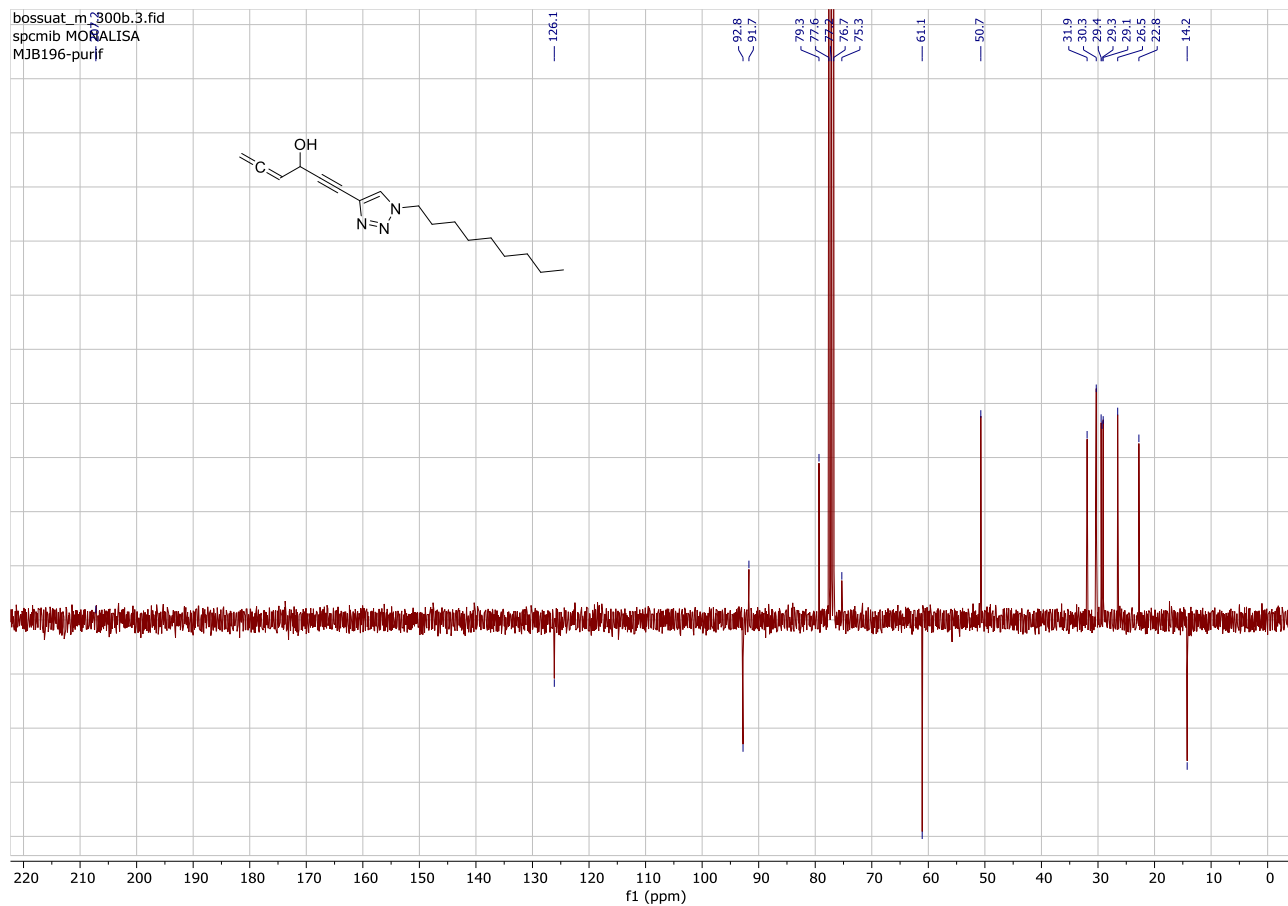
¹³C NMR spectrum of compound **30** (75 MHz, CDCl₃)



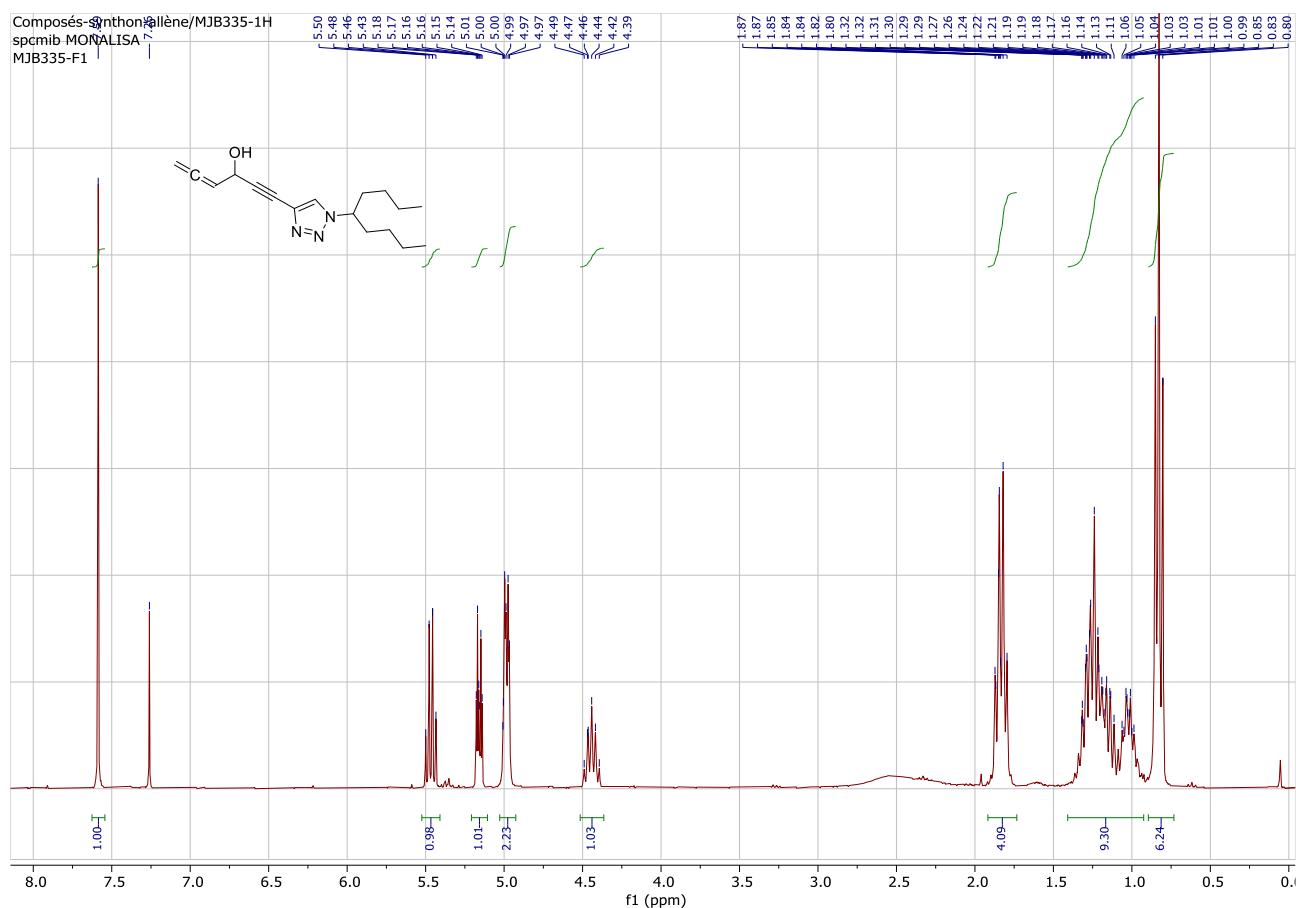
¹H NMR spectrum of compound **31** (300 MHz, CDCl₃)



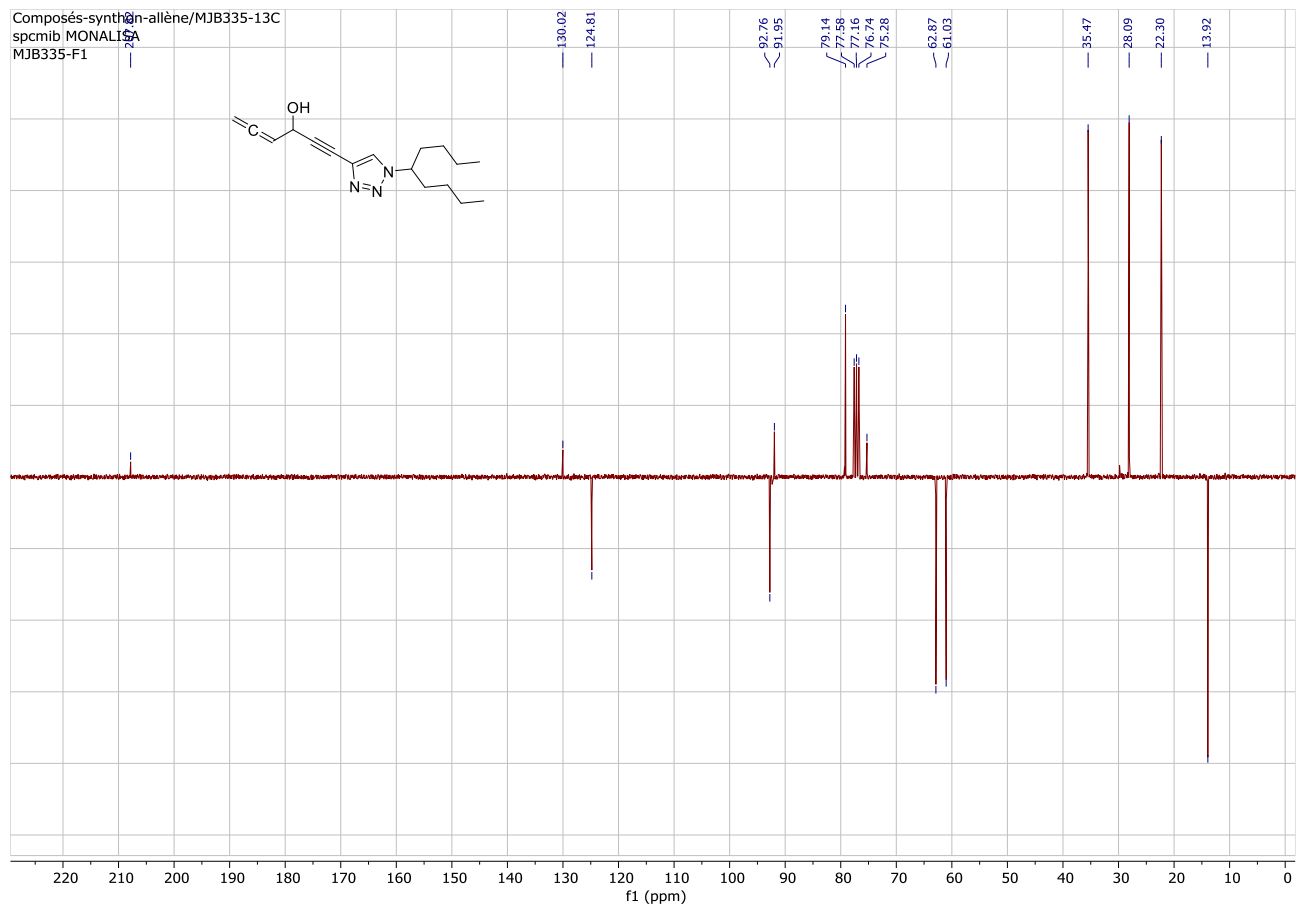
¹³C NMR spectrum of compound **31** (75 MHz, CDCl₃)



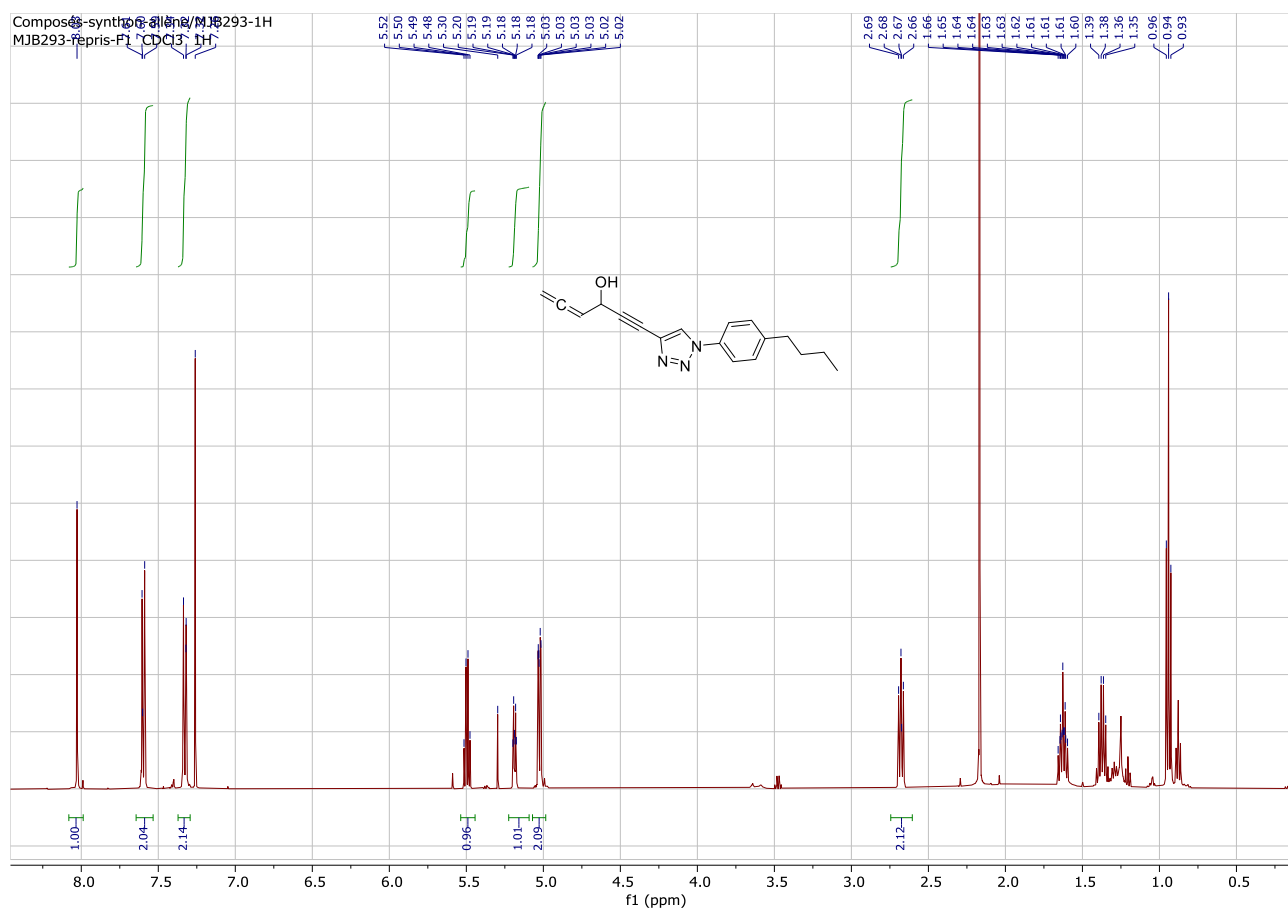
¹H NMR spectrum of compound **32** (300 MHz, CDCl₃)



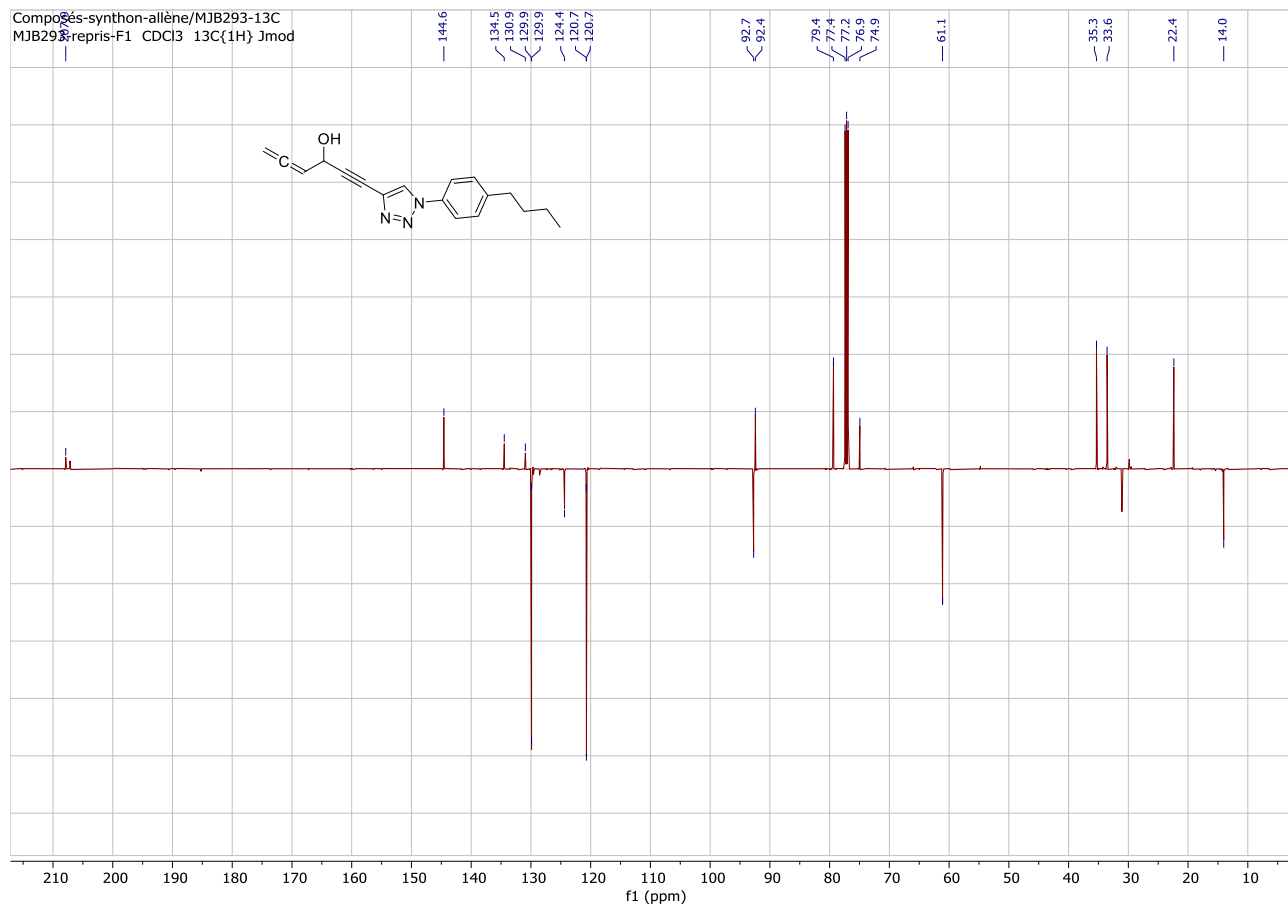
¹³C NMR spectrum of compound **32** (75 MHz, CDCl₃)



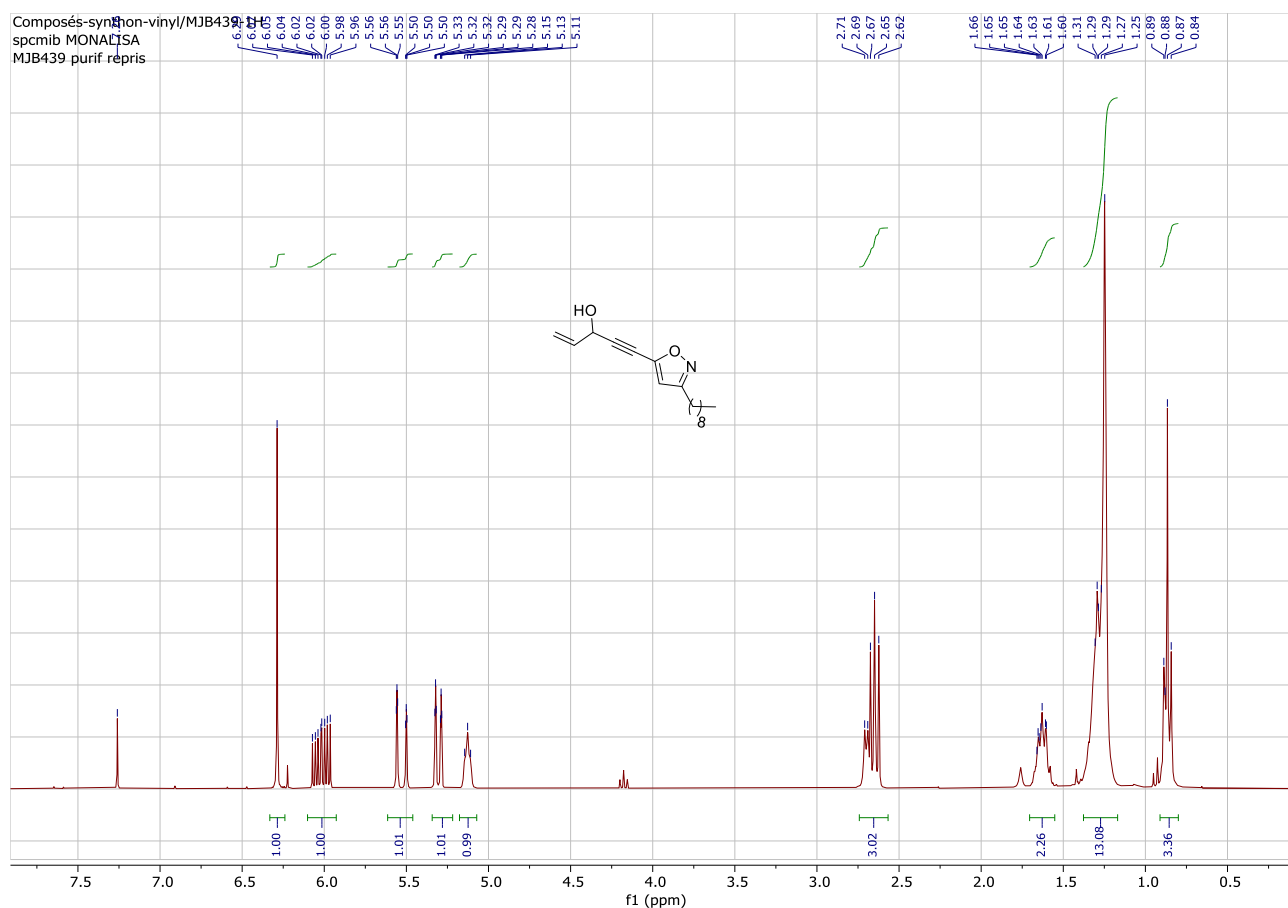
¹H NMR spectrum of compound **33** (300 MHz, CDCl₃)



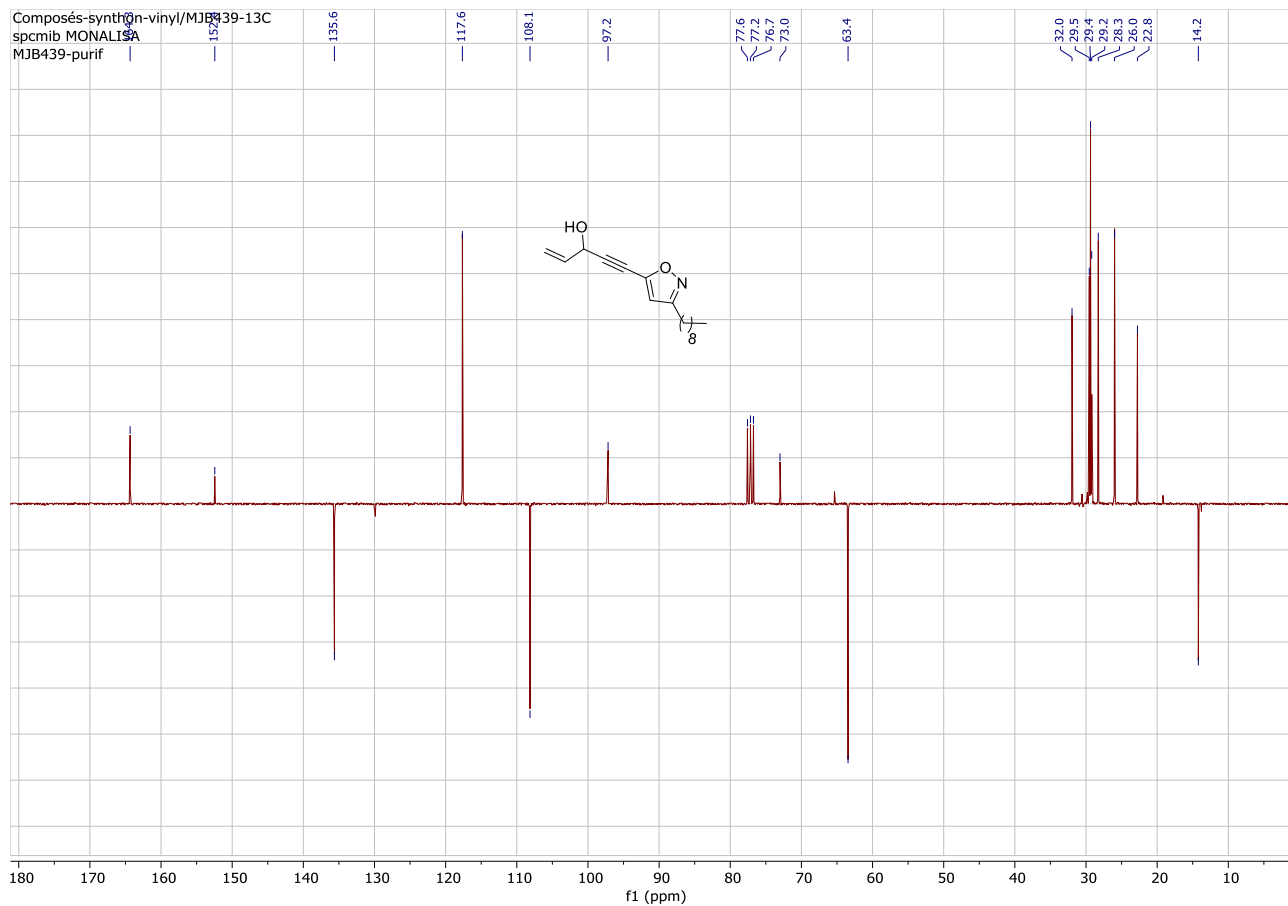
¹³C NMR spectrum of compound **33** (125 MHz, CDCl₃)



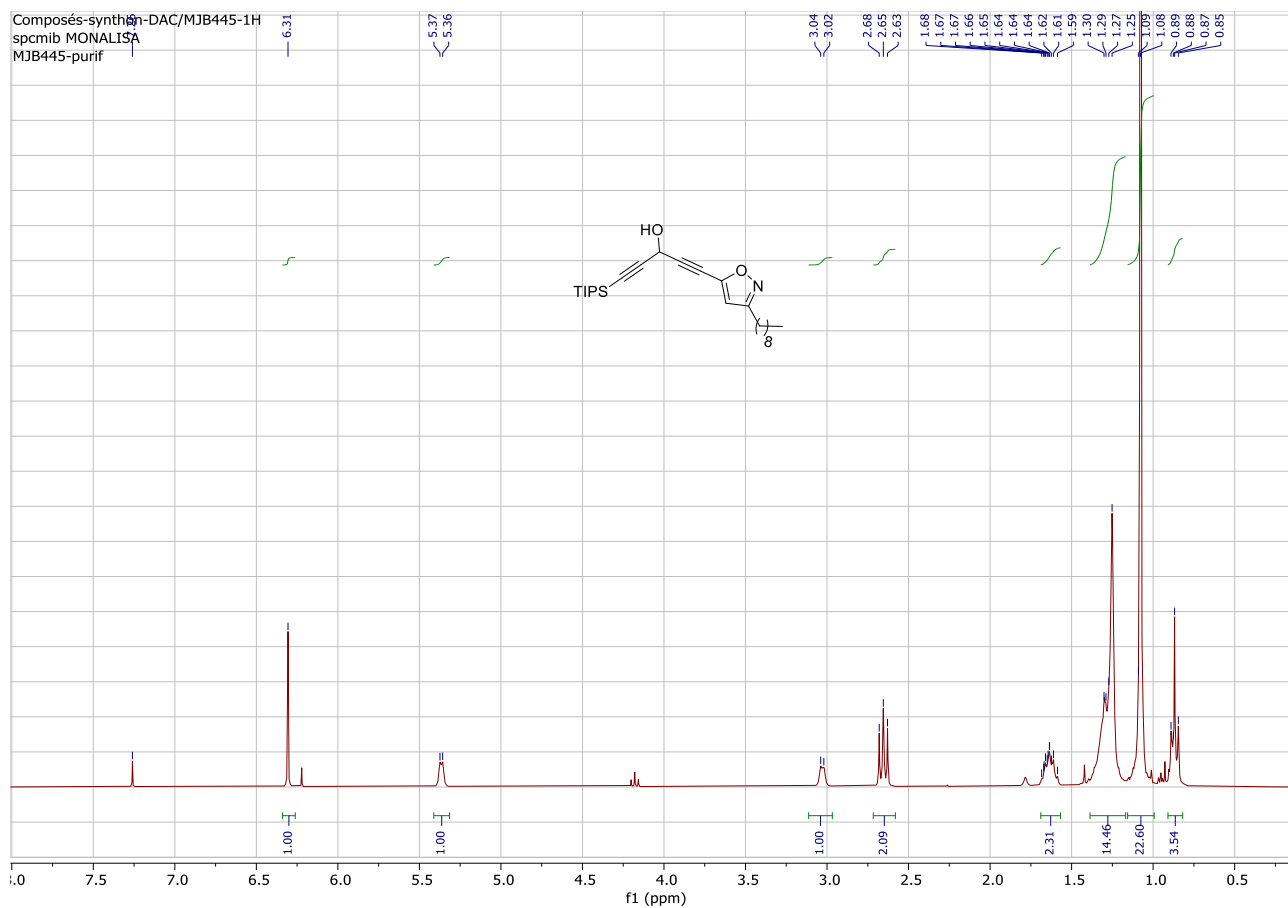
¹H NMR spectrum of compound **36** (300 MHz, CDCl₃)



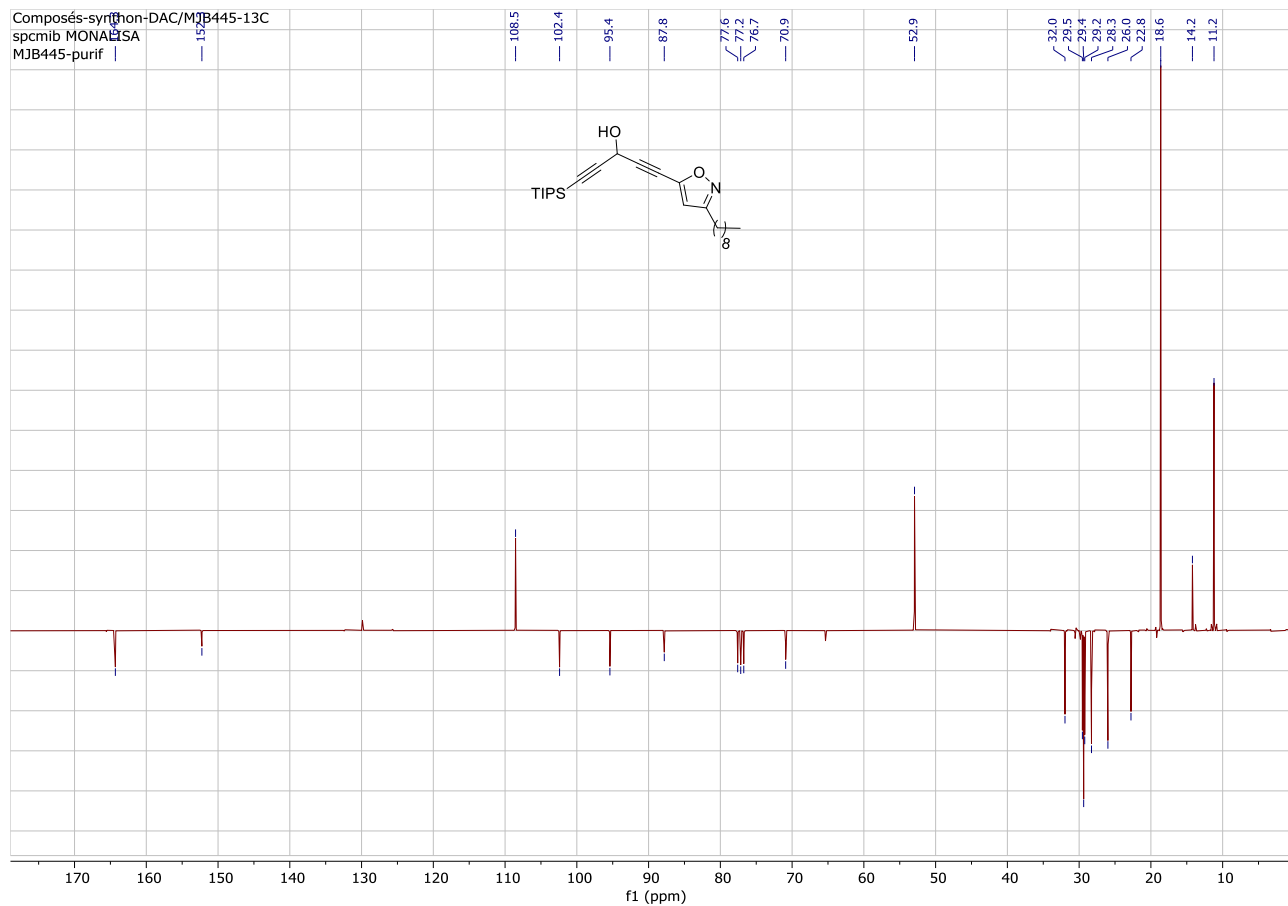
¹³C NMR spectrum of compound **36** (75 MHz, CDCl₃)



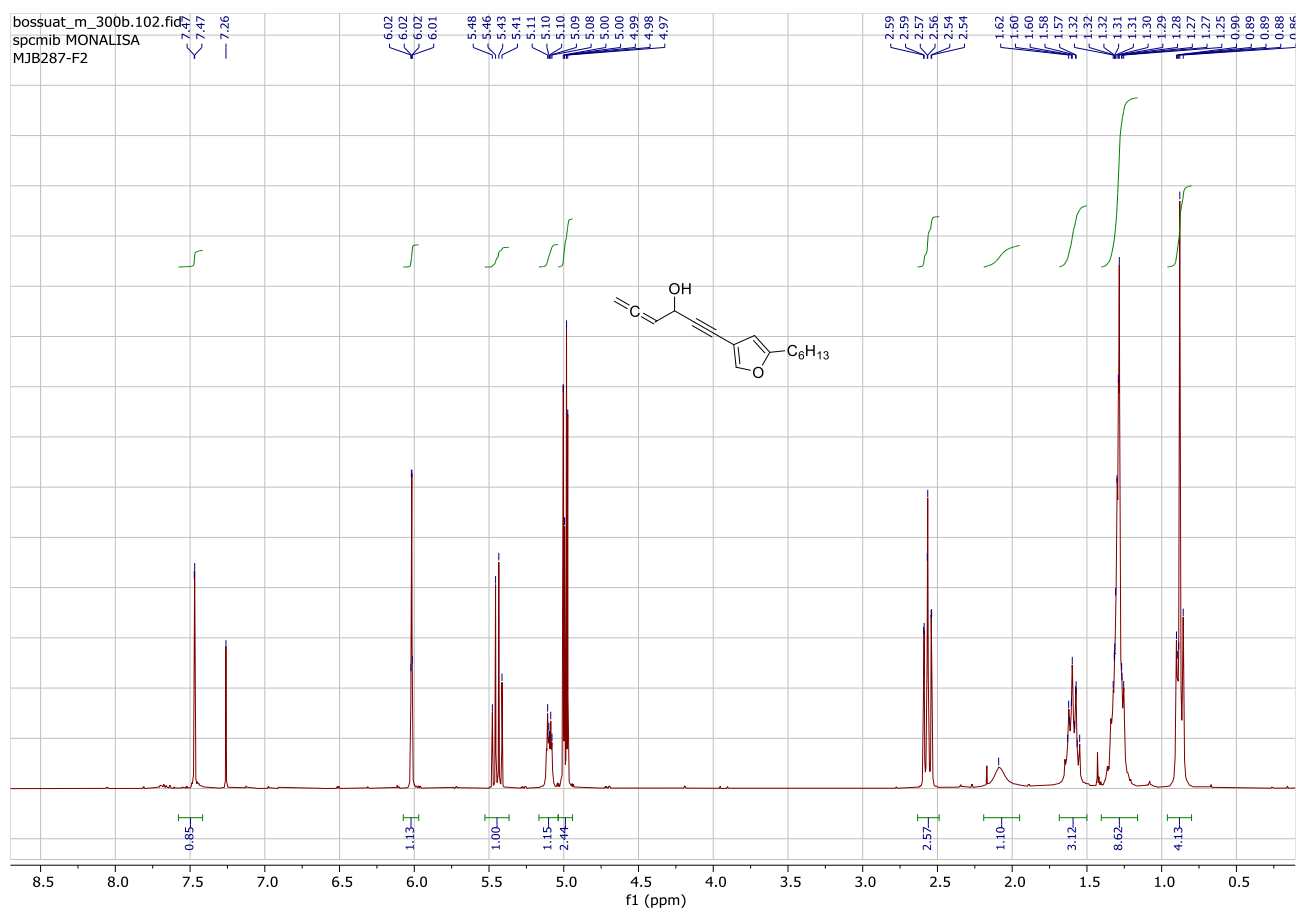
¹H NMR spectrum of compound **38** (300 MHz, CDCl₃)



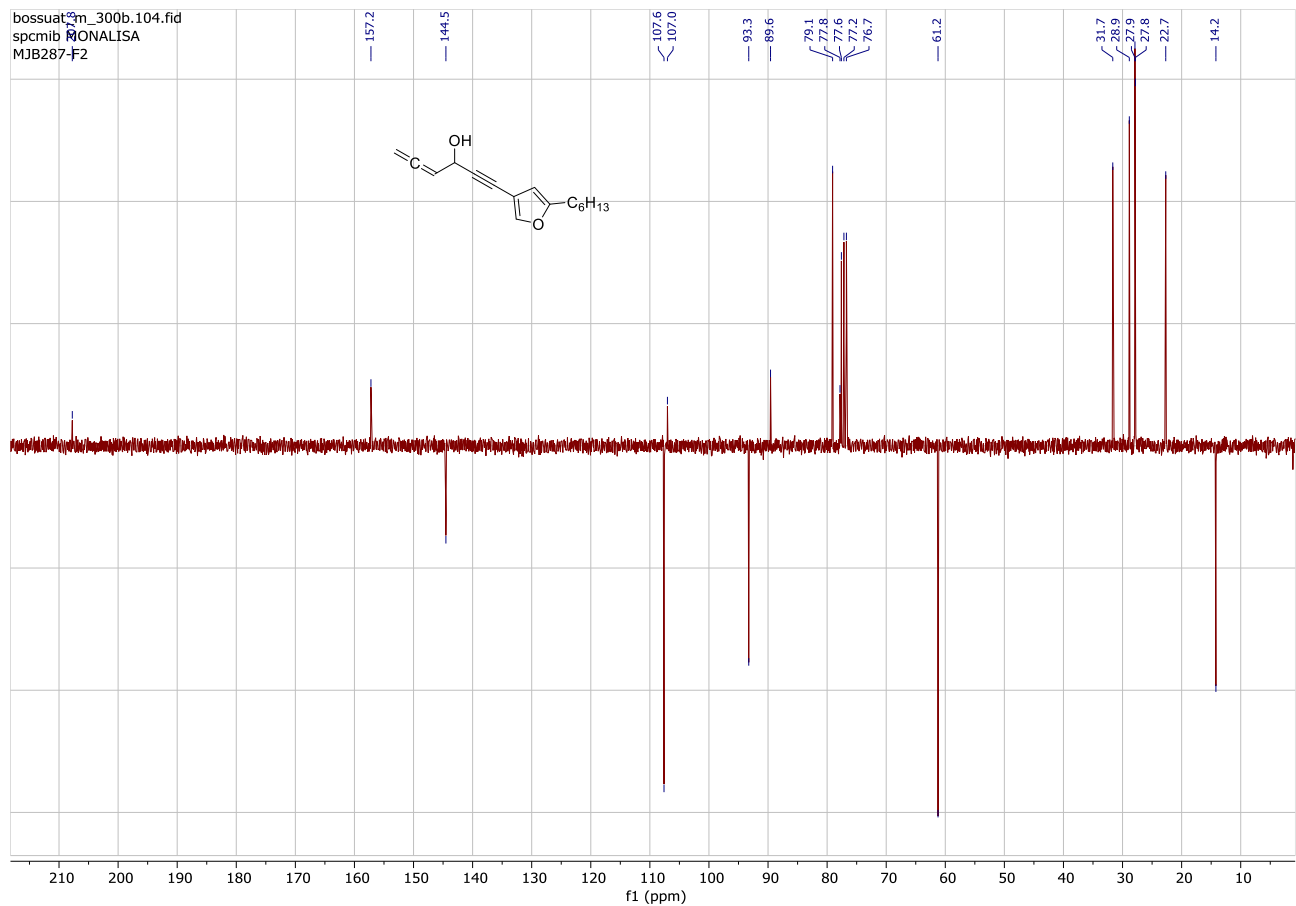
¹³C NMR spectrum of compound **38** (75 MHz, CDCl₃)



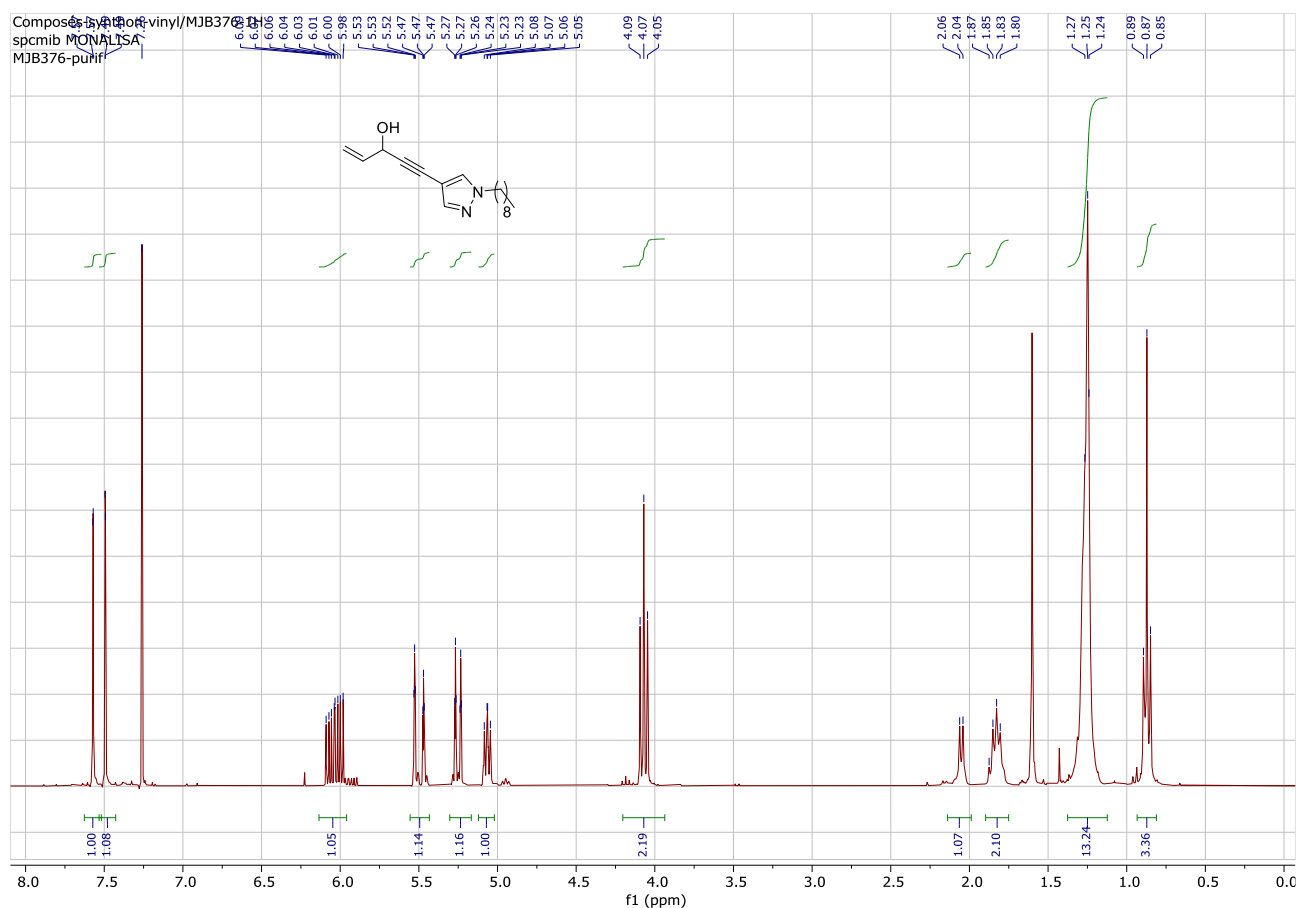
¹H NMR spectrum of compound **40** (300 MHz, CDCl₃)



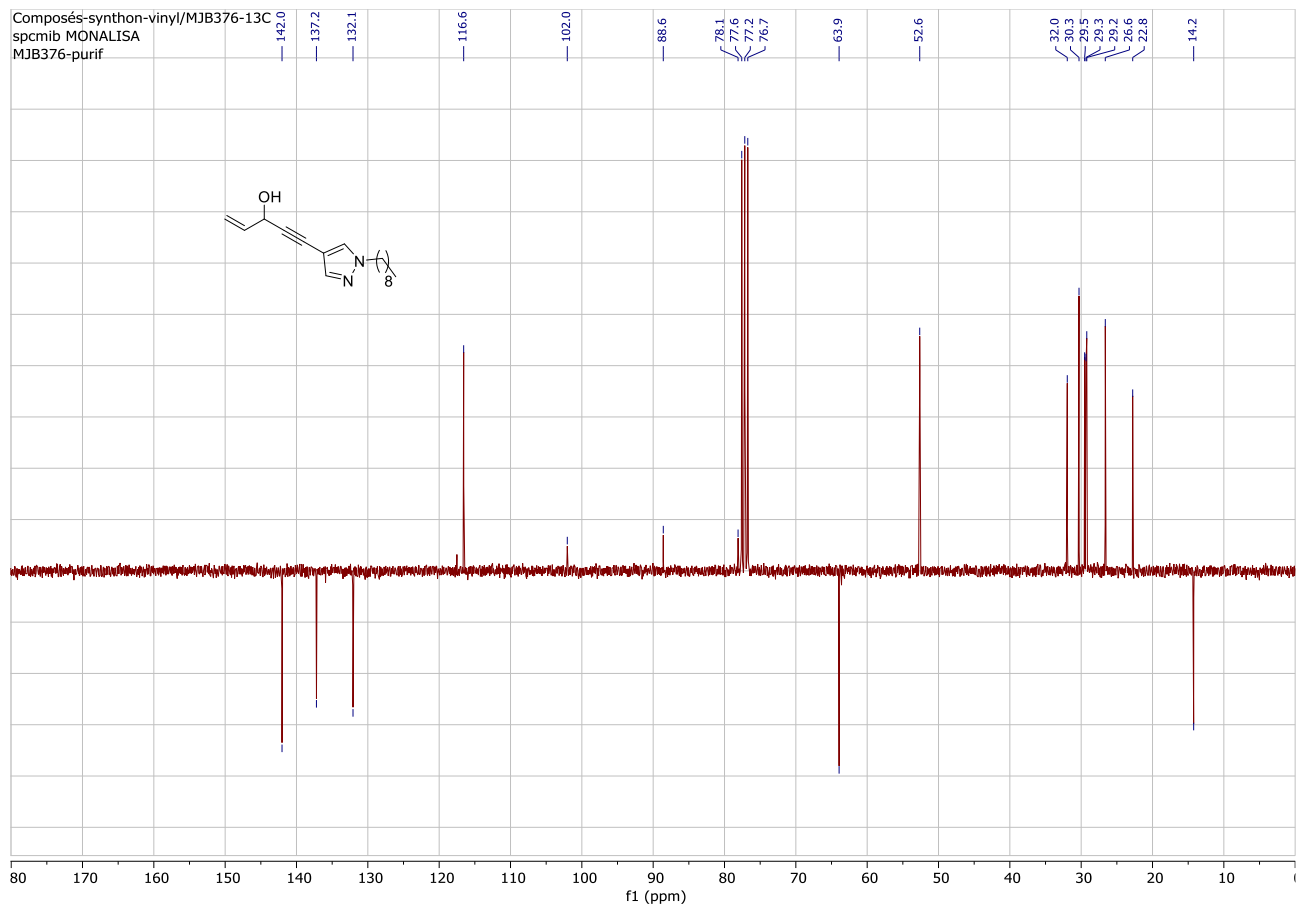
¹³C NMR spectrum of compound **40** (75 MHz, CDCl₃)



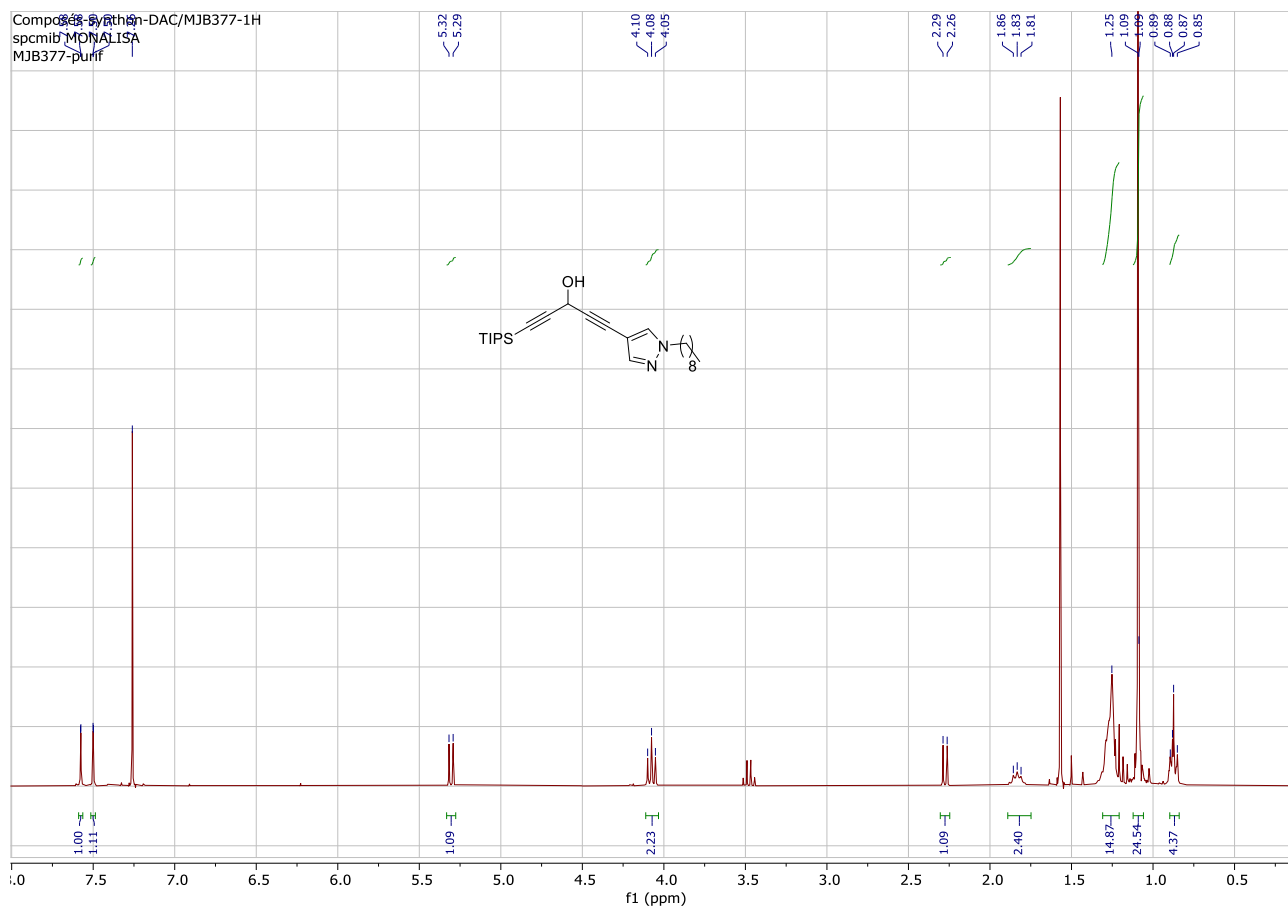
¹H NMR spectrum of compound **43** (300 MHz, CDCl₃)



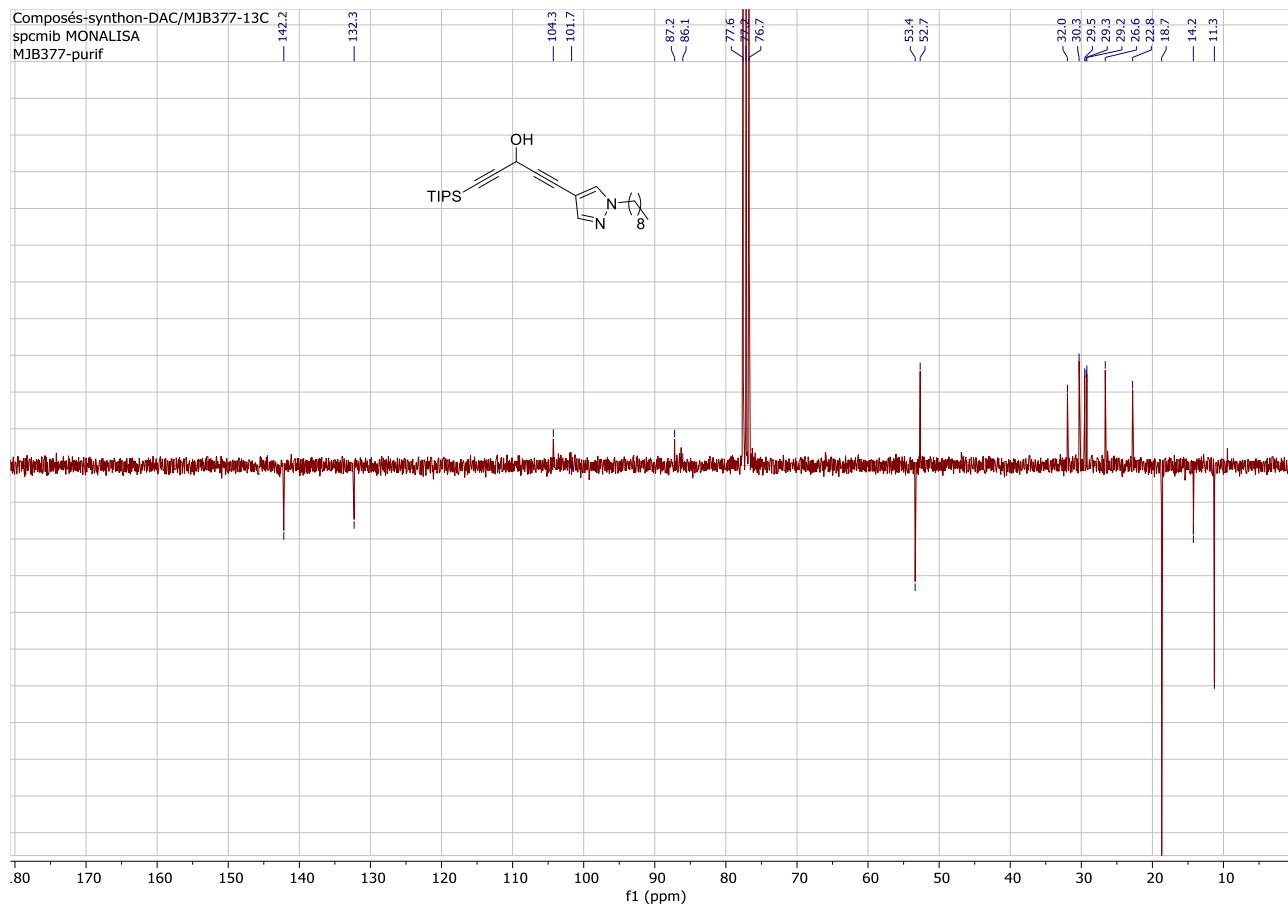
¹³C NMR spectrum of compound **43** (75 MHz, CDCl₃)



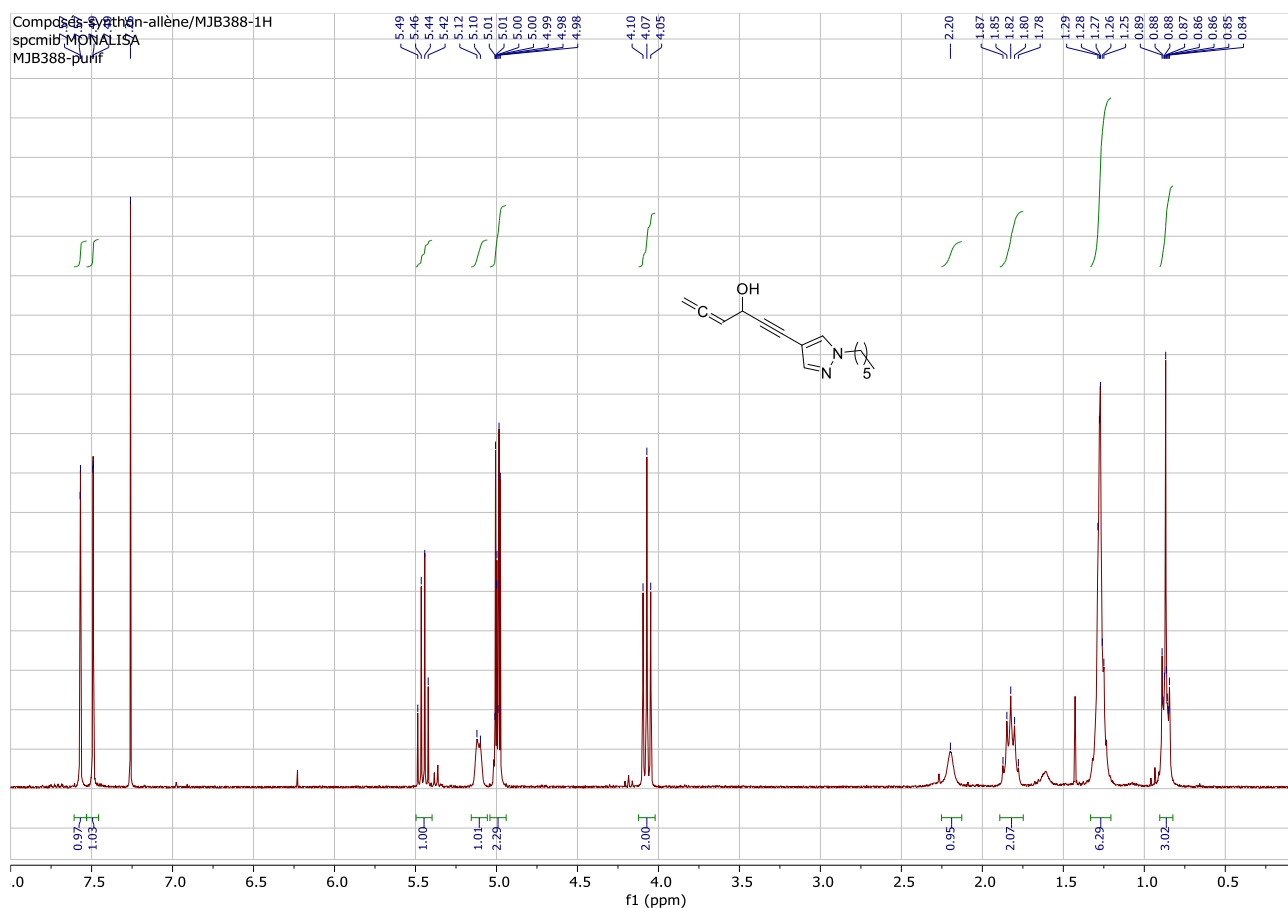
¹H NMR spectrum of compound **44** (300 MHz, CDCl₃)



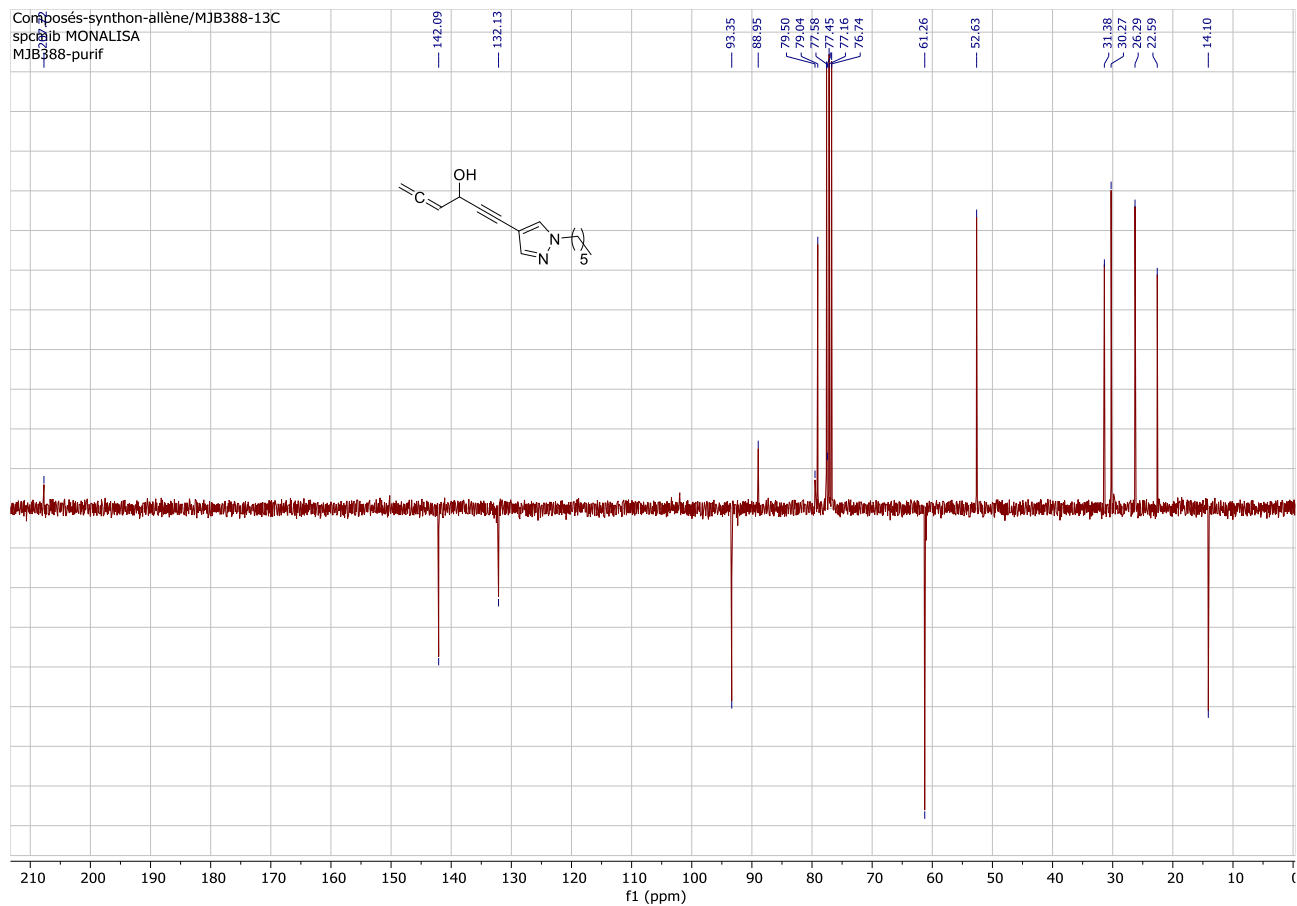
¹³C NMR spectrum of compound **44** (75 MHz, CDCl₃)



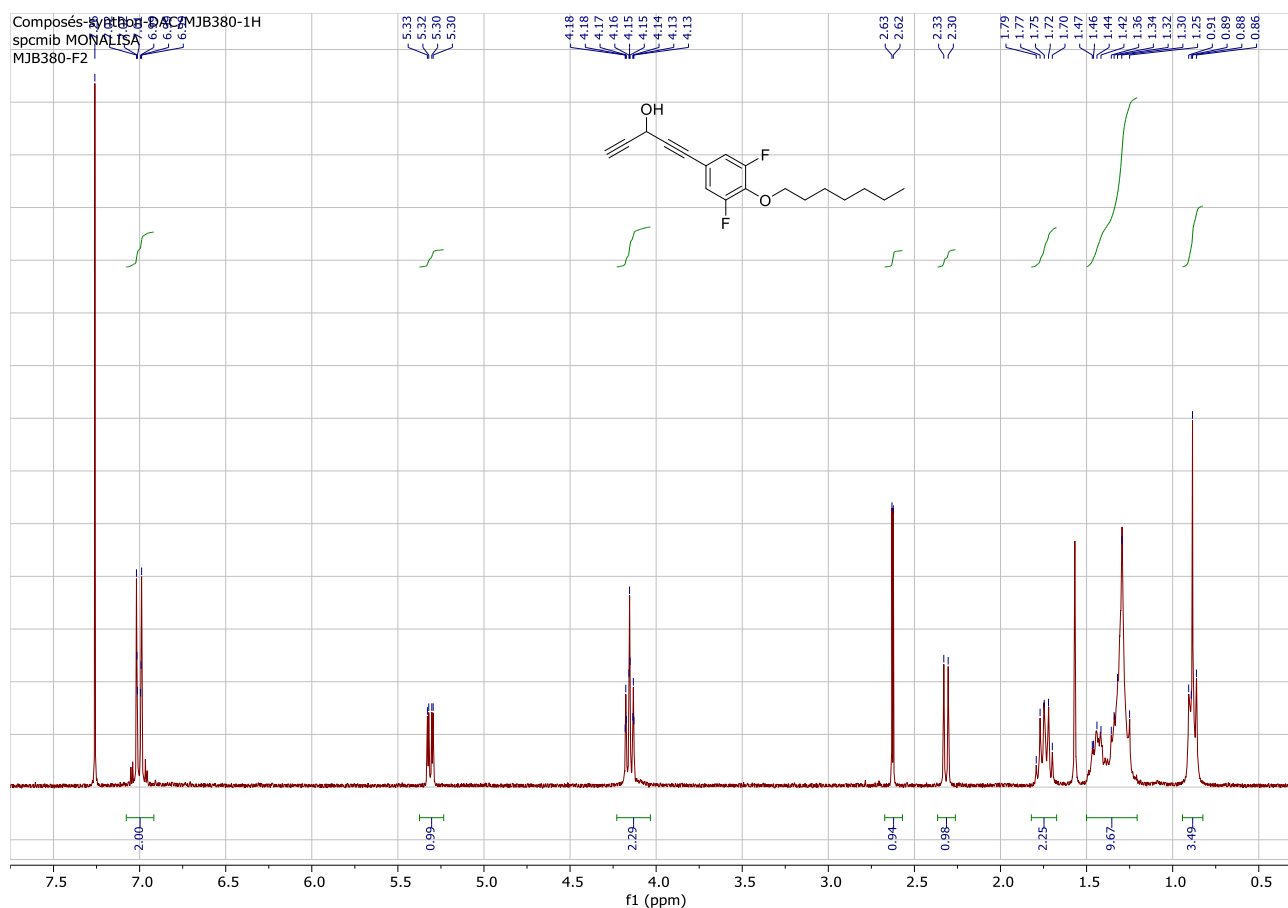
¹H NMR spectrum of compound **45** (300 MHz, CDCl₃)



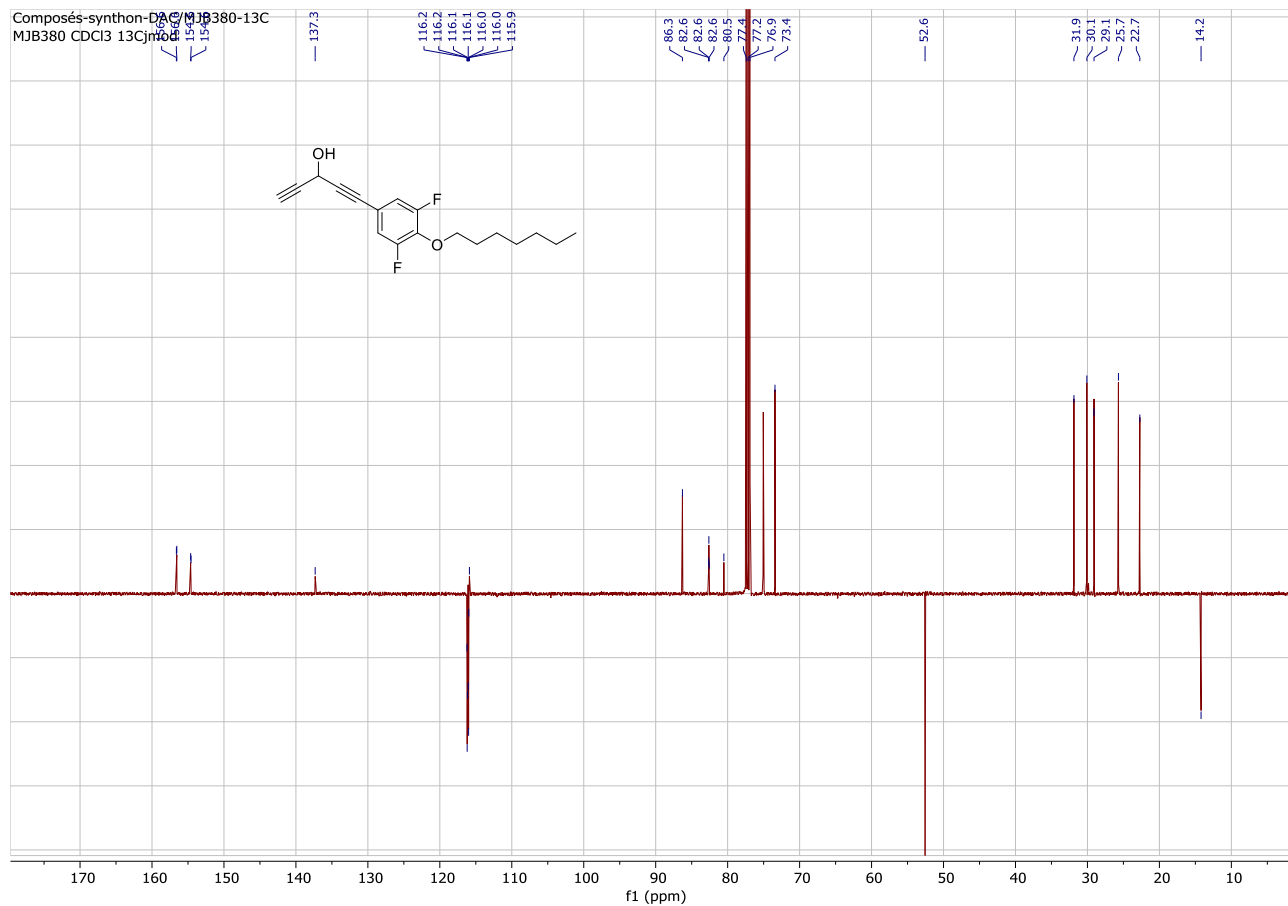
¹³C NMR spectrum of compound **45** (75 MHz, CDCl₃)



¹H NMR spectrum of compound **46** (300 MHz, CDCl₃)

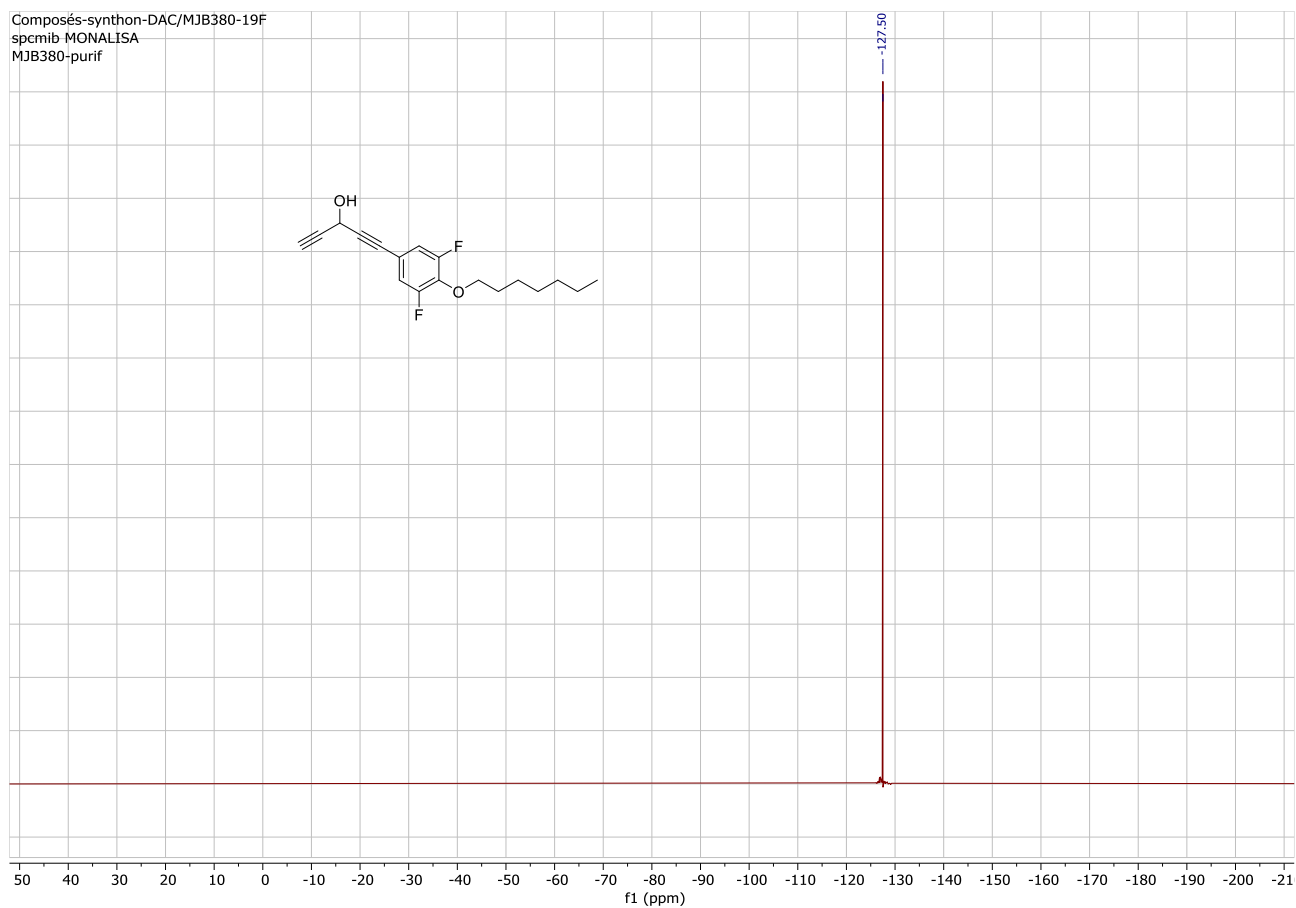


¹³C NMR spectrum of compound **46** (75 MHz, CDCl₃)



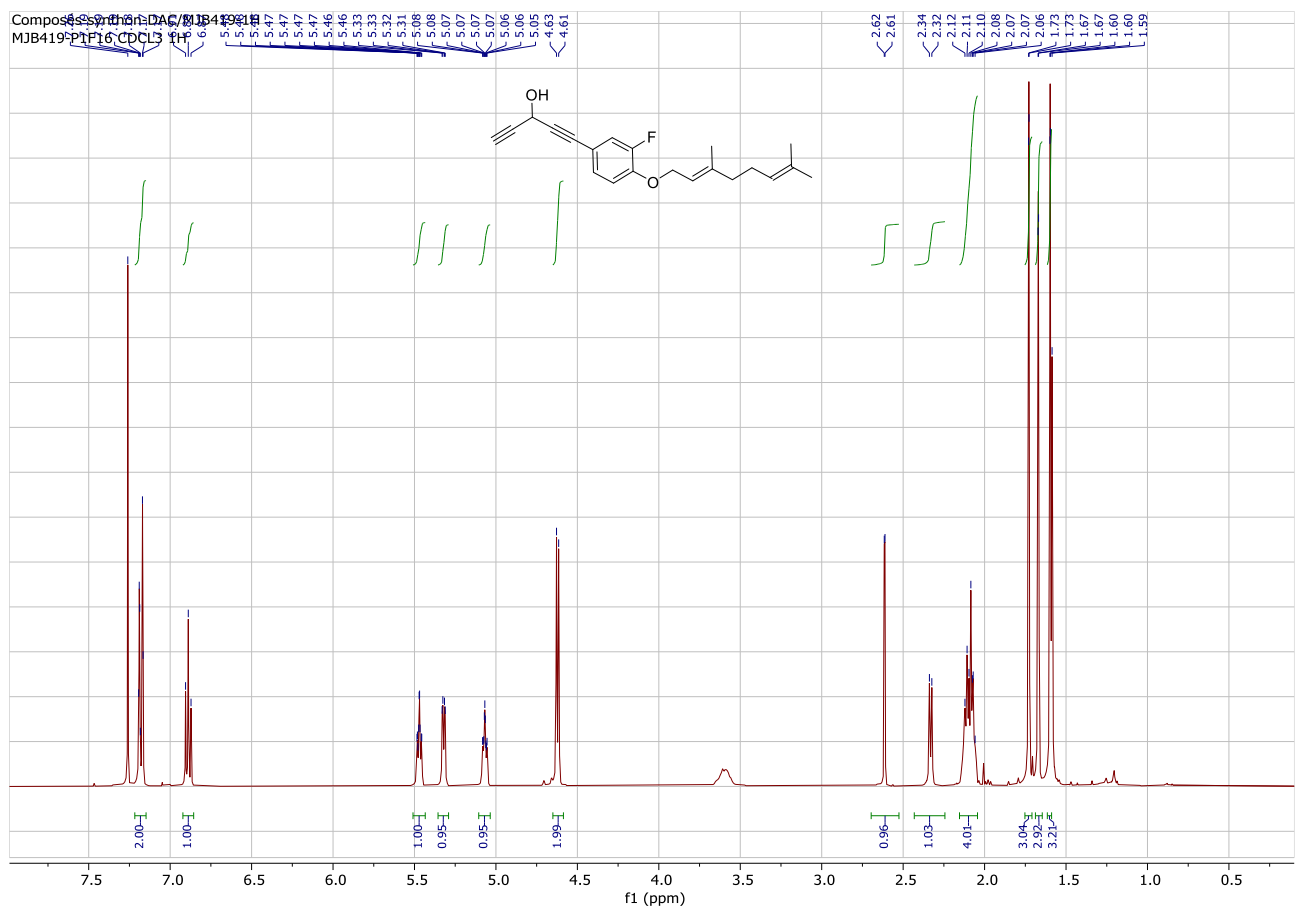
¹⁹F NMR spectrum of compound **46** (282 MHz, CDCl₃)

Composés-synthon-DAC/MJB380-19F
spcmib MONALISA
MJB380-purif

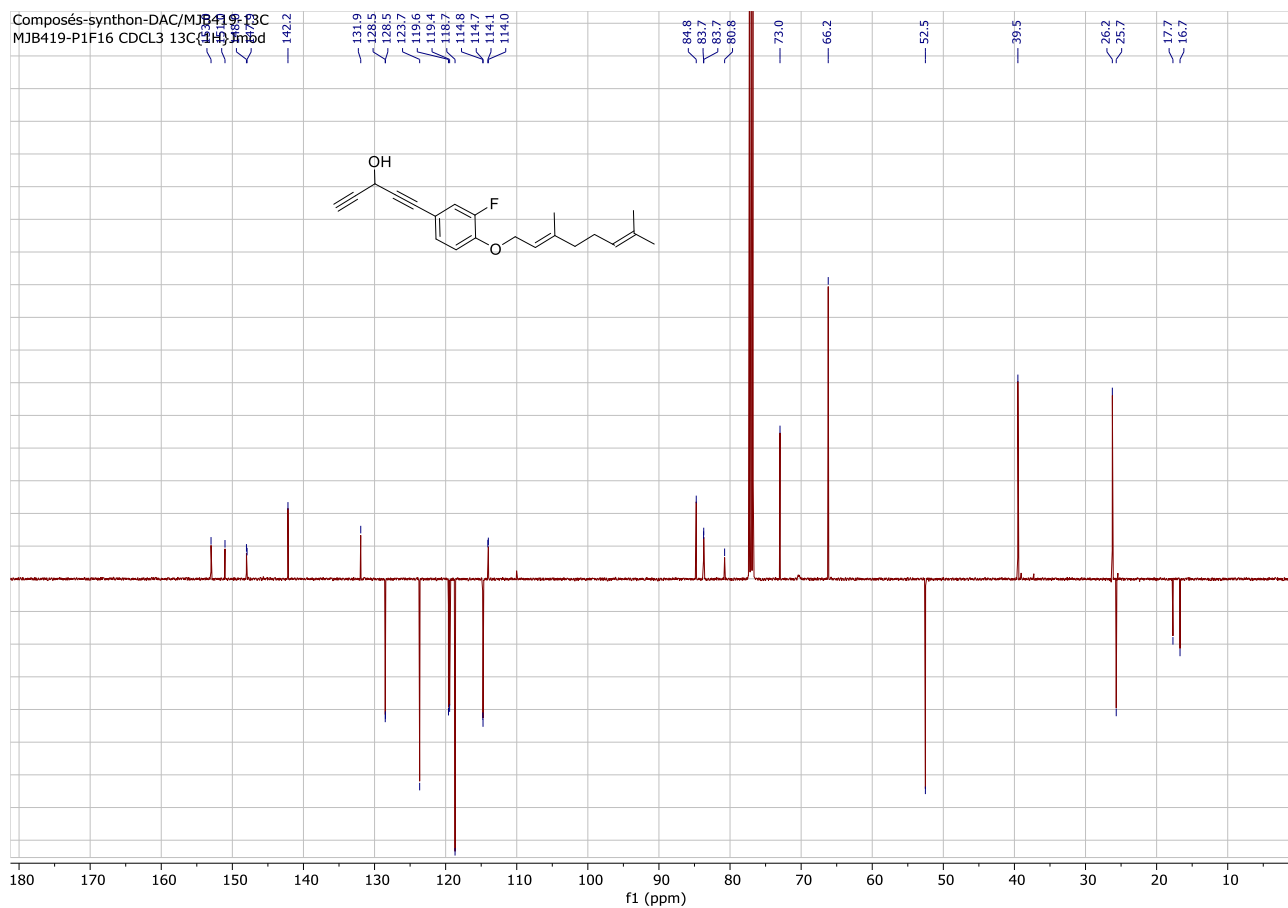


¹H NMR spectrum of compound **47** (600 MHz, CDCl₃)

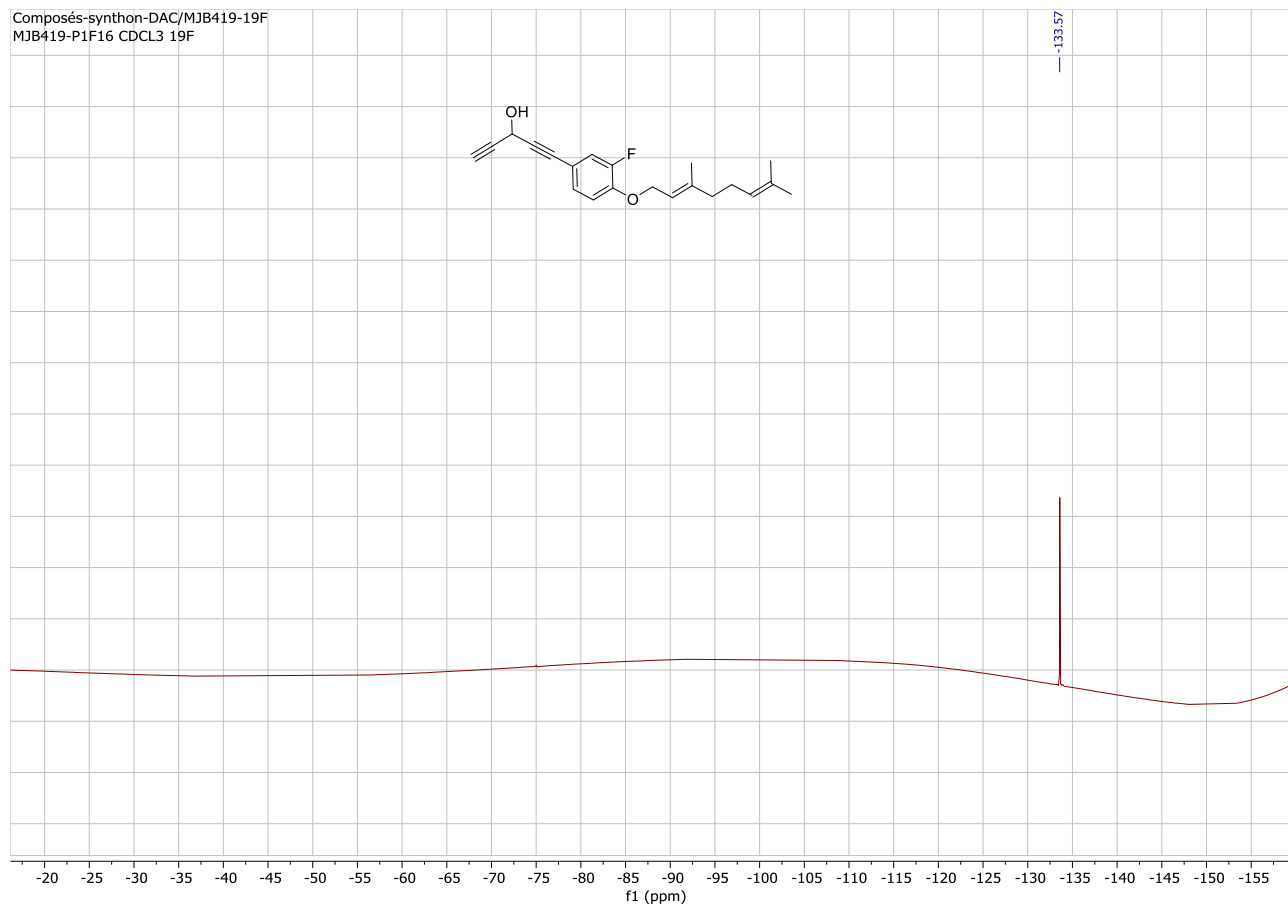
Composés-synthon-DAC/MJB419-1H
MJB419-P1F16-CDCl3-1H



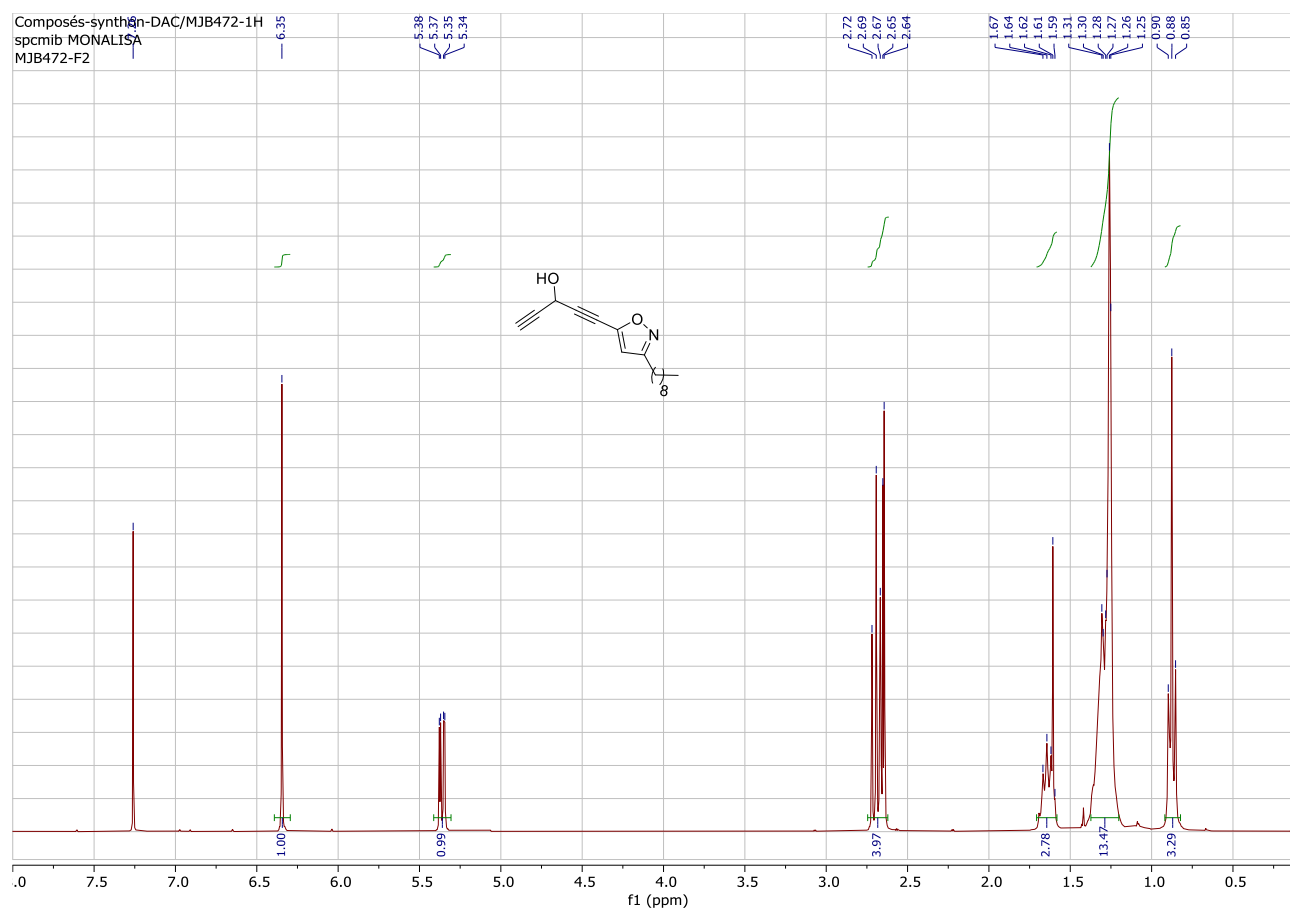
¹³C NMR spectrum of compound **47** (125 MHz, CDCl₃)



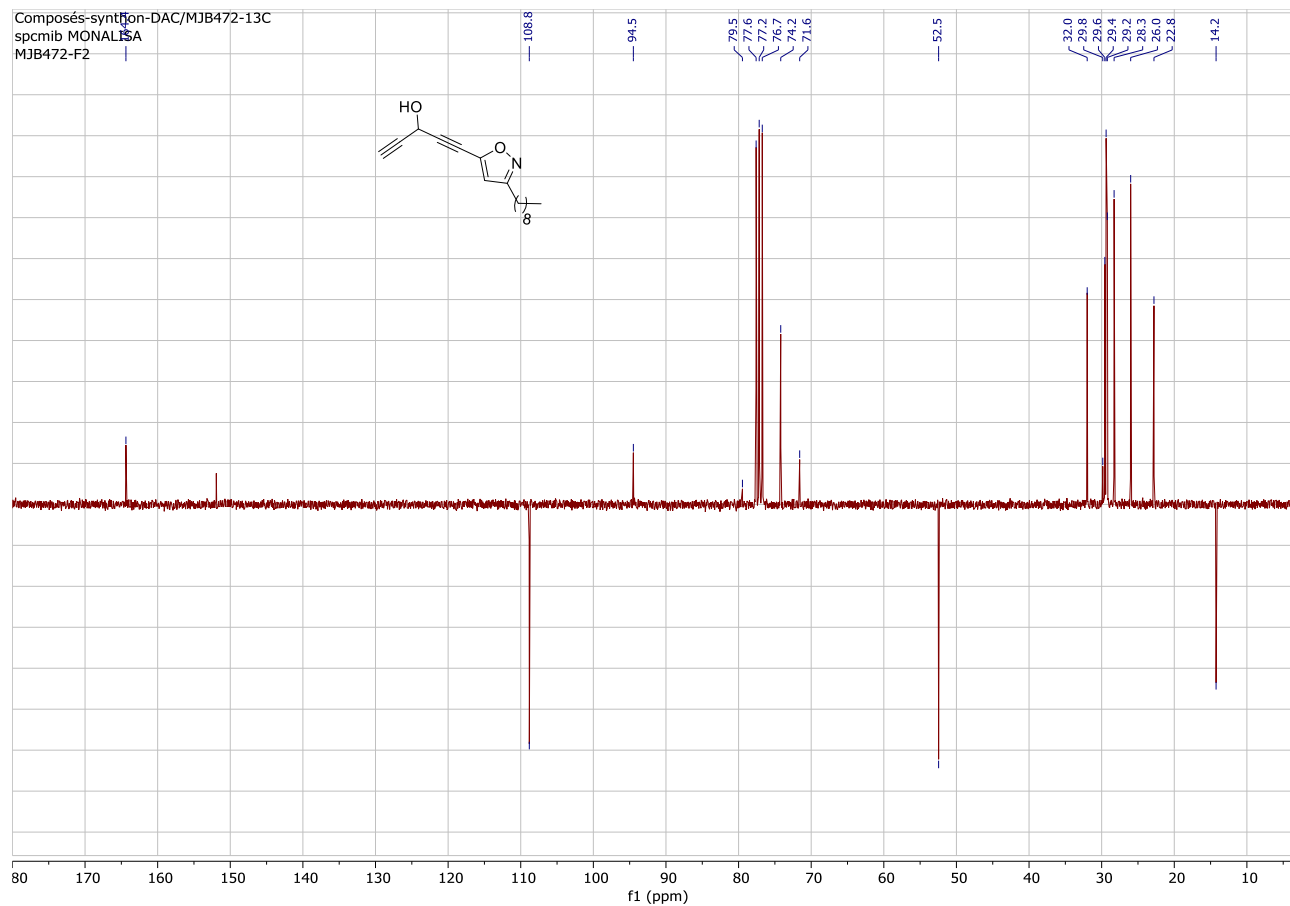
¹⁹F NMR spectrum of compound **47** (282 MHz, CDCl₃)



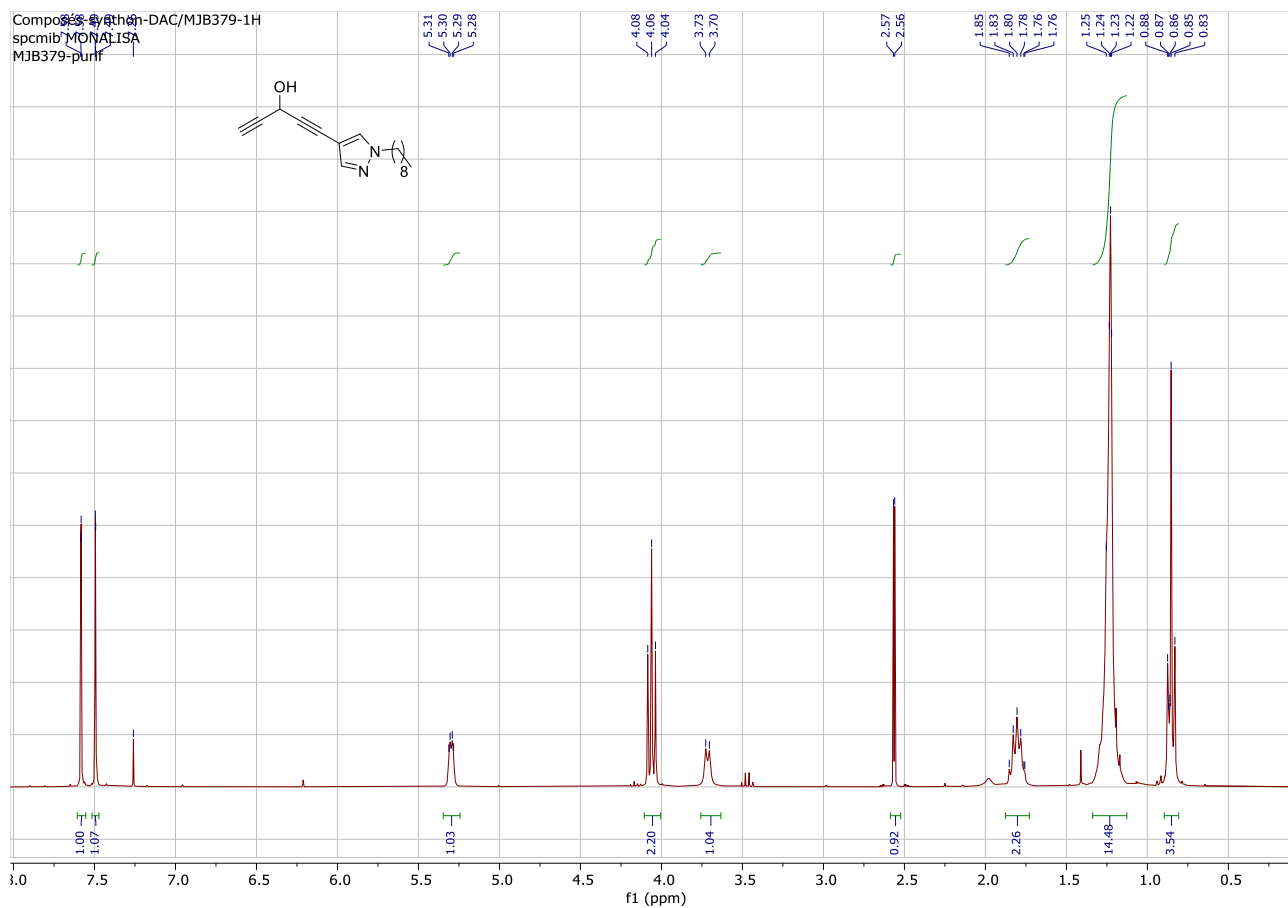
¹H NMR spectrum of compound **48** (300 MHz, CDCl₃)



¹³C NMR spectrum of compound **48** (75 MHz, CDCl₃)



¹H NMR spectrum of compound **49** (300 MHz, CDCl₃)



¹³C NMR spectrum of compound **49** (75 MHz, CDCl₃)

