

CHEMICAL MODIFICATIONS OF A NATURAL XANTHONE AND ANTIMICROBIAL ACTIVITY AGAINST MULTIDRUG RESISTANT *Staphylococcus aureus* AND CYTOTOXICITY AGAINST HUMAN TUMOR CELL LINES

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¹H, ¹³C, HSQC and HMBC NMR spectra and EI/MS spectra of new substances

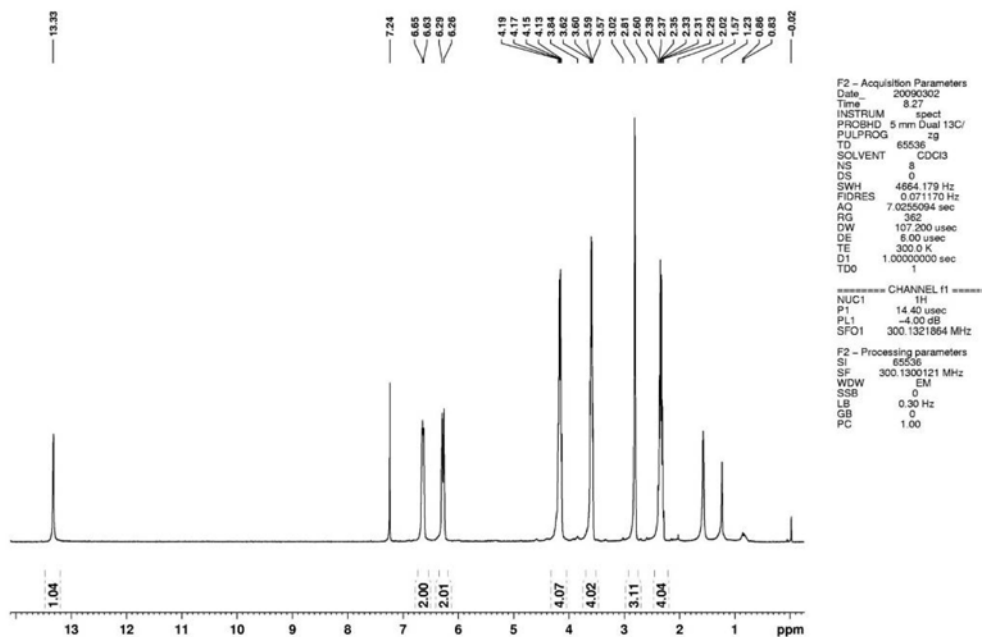


Figure 1S. ¹H NMR spectrum of (3), 300 MHz, CDCl₃

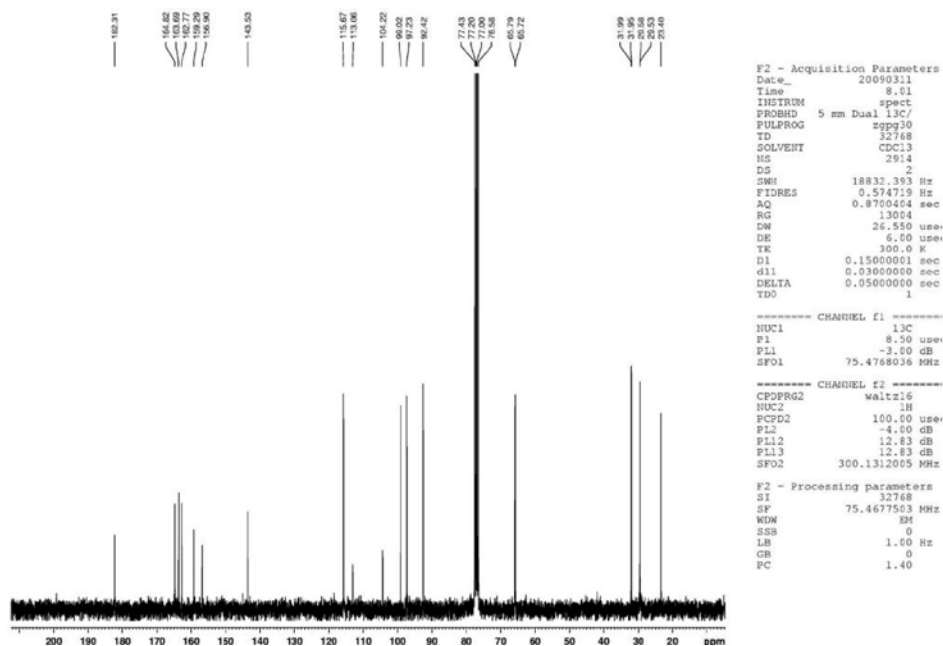


Figure 2S. ^{13}C NMR spectrum of (3), 75 MHz, CDCl_3

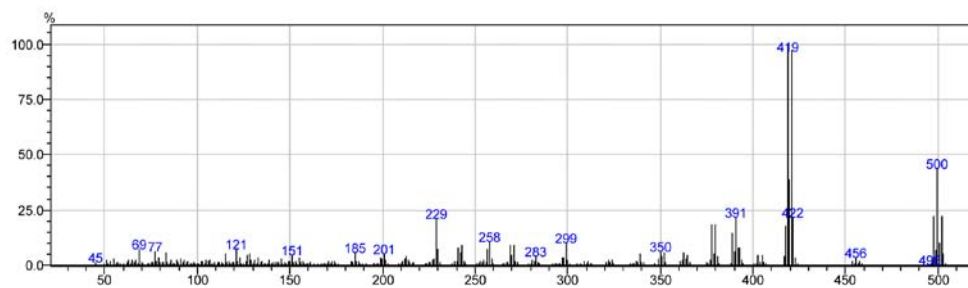


Figure 3S. EI/MS spectrum of (3)

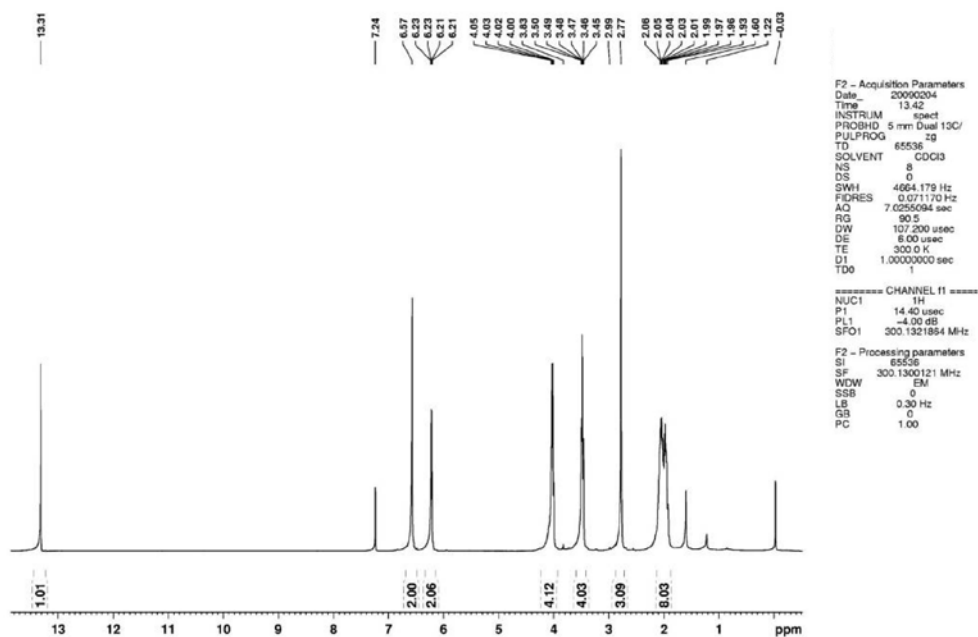


Figure 4S. ^1H NMR spectrum of (4), 300 MHz, CDCl_3

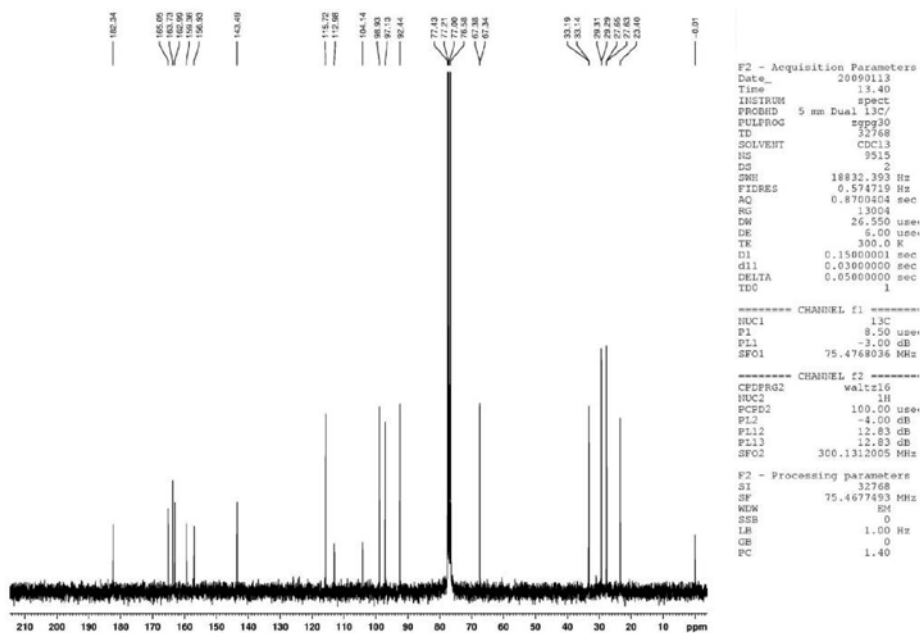
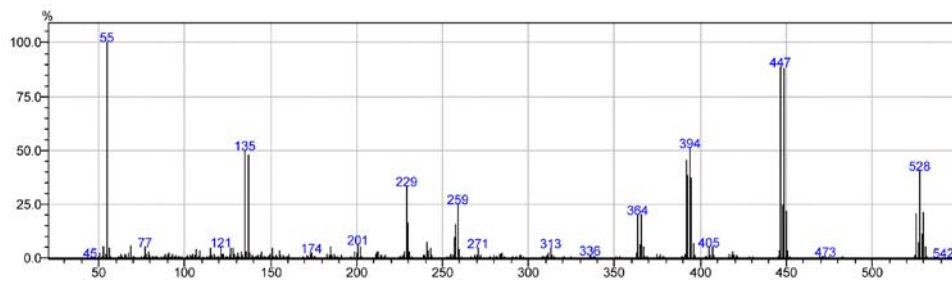
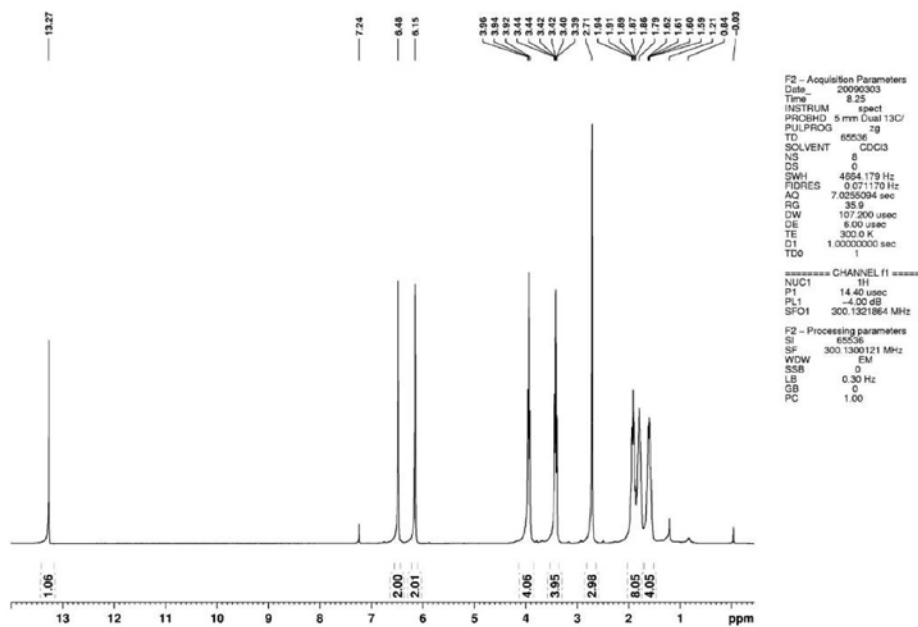
Figure 5S. ^{13}C NMR spectrum of (4), 75 MHz, CDCl_3 .

Figure 6S. EI/MS spectrum of (4)

Figure 7S. ^1H NMR spectrum of (5), 300 MHz, CDCl_3 .

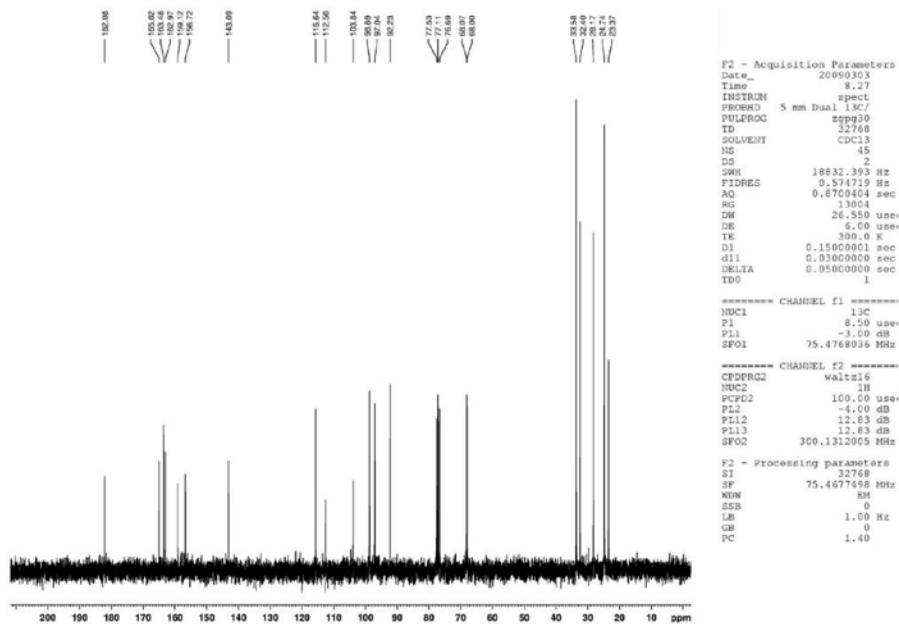


Figure 8S. ^{13}C NMR spectrum of (5), 75 MHz, CDCl_3

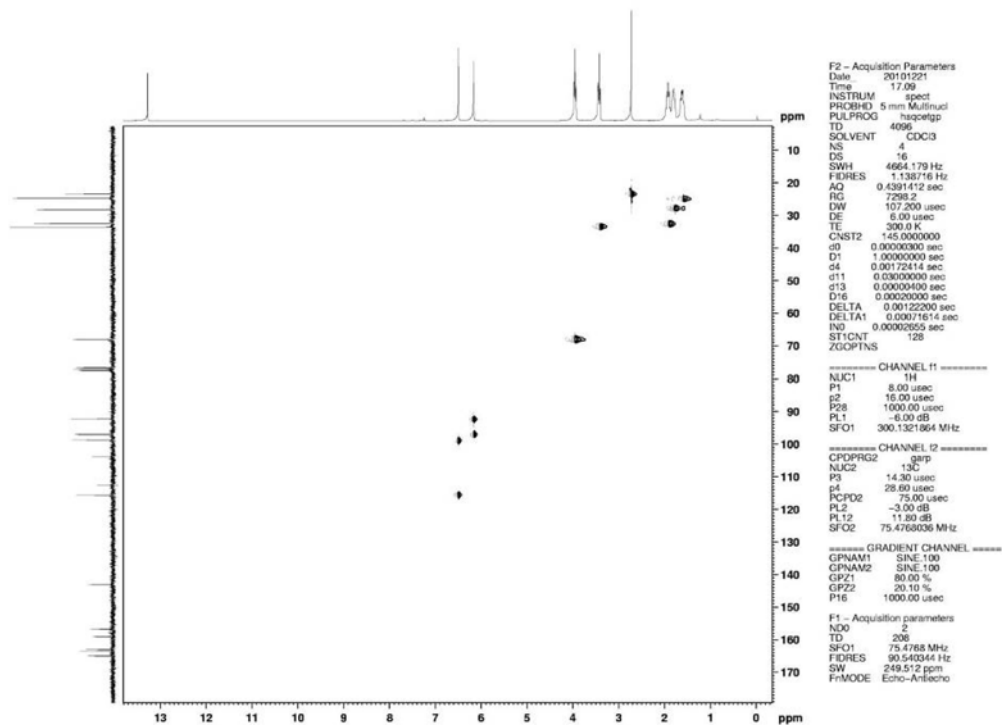


Figure 9S. HSQC spectrum of (5), CDCl_3

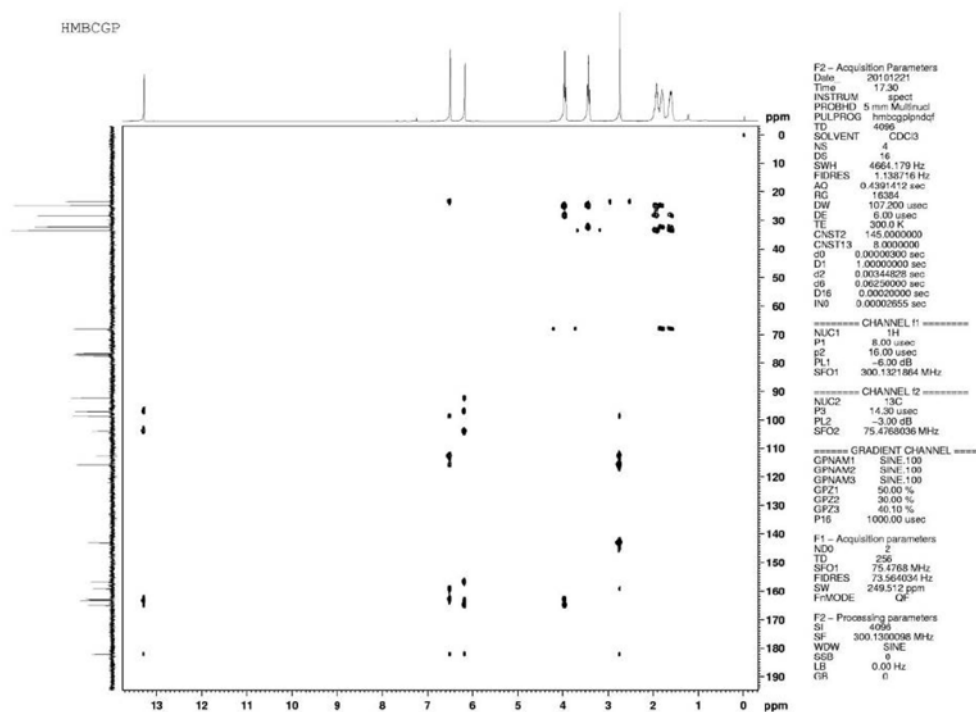
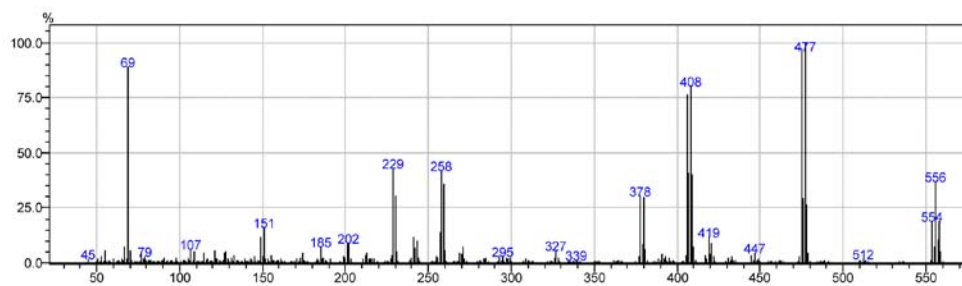
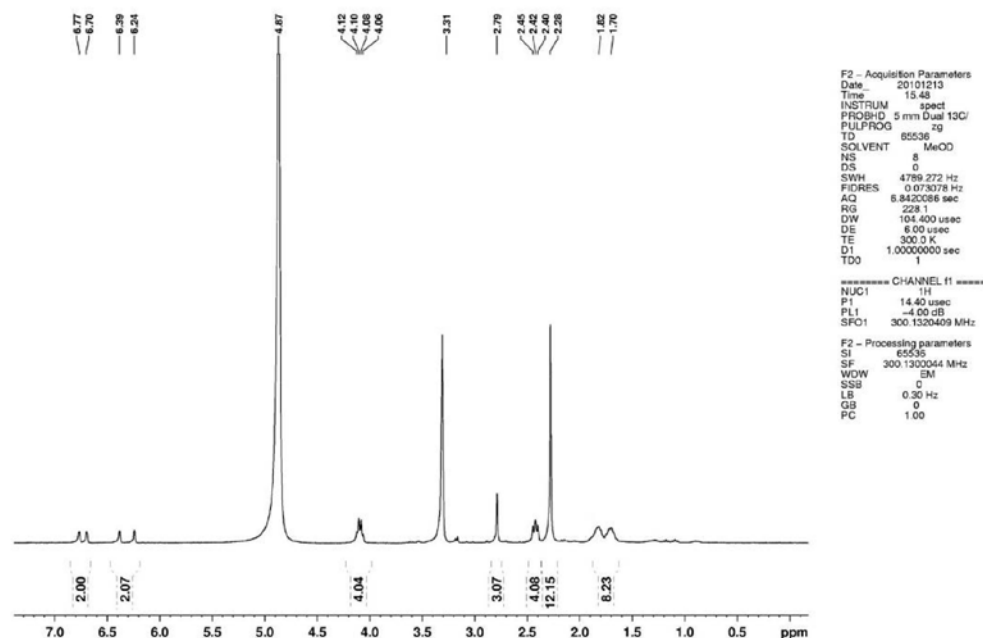
Figure 10S. HMBC spectrum of (5), $CDCl_3$ 

Figure 11S. EI/MS spectrum of (5)

Figure 12S. 1H NMR spectrum of (7), 300 MHz, methanol- d_4

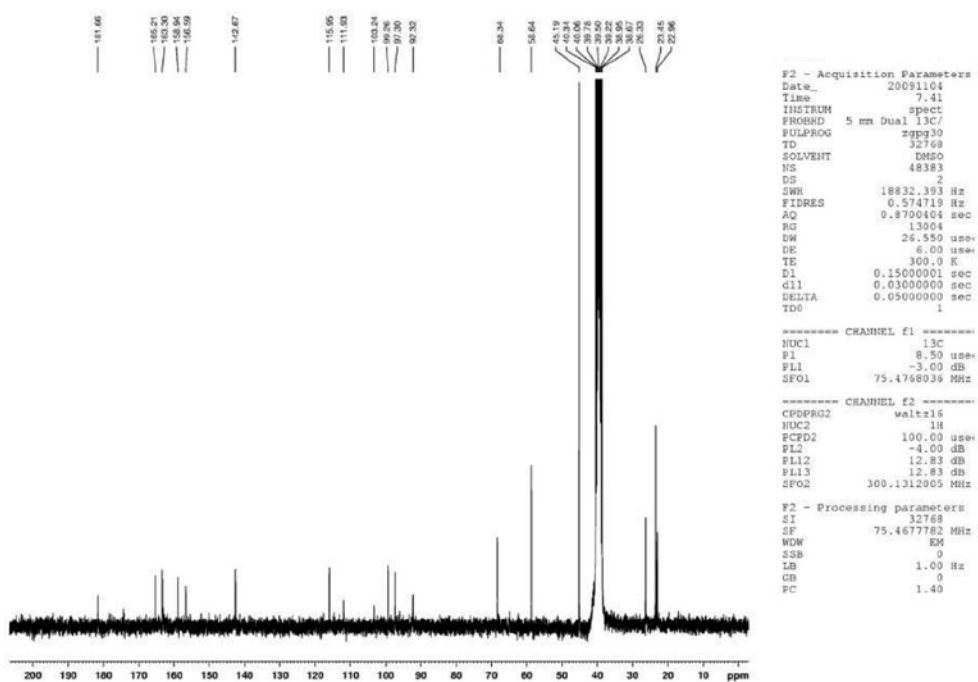


Figure 13S. ^{13}C NMR spectrum of (7), 75 MHz, $\text{DMSO}-d_6$

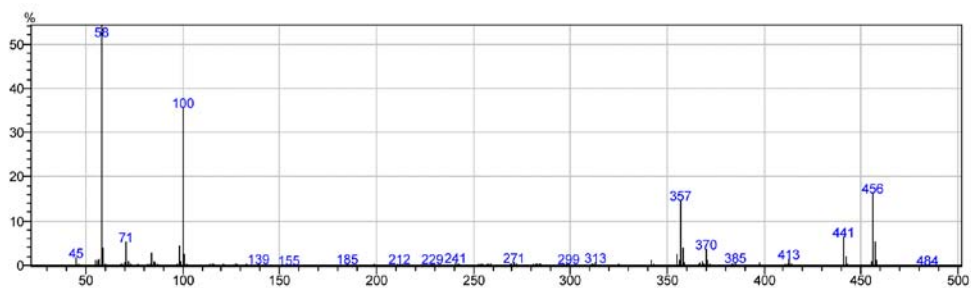


Figure 14S. EI/MS spectrum of (7)

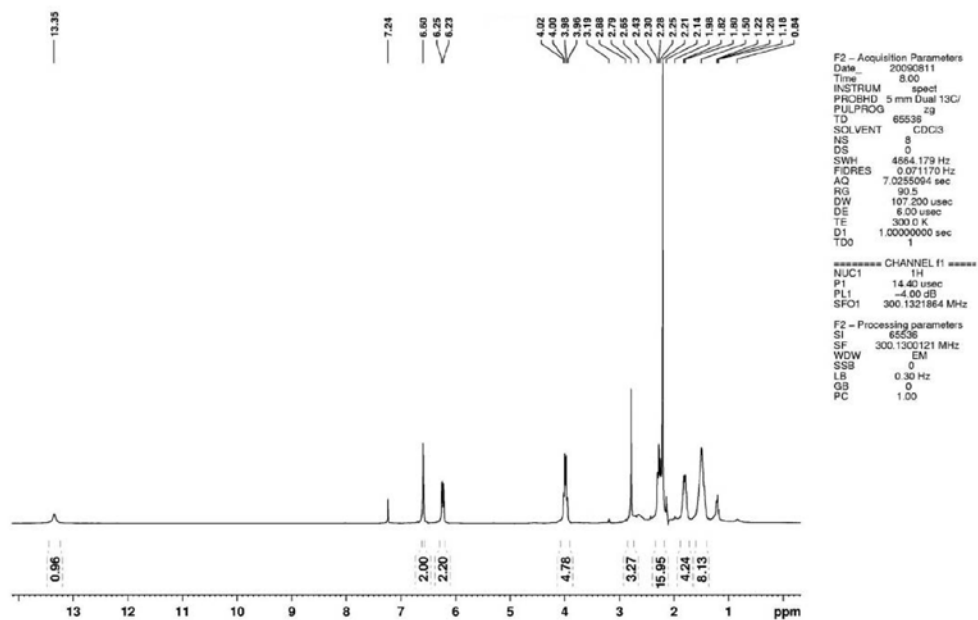


Figure 15S. ^1H NMR spectrum of (8), 300 MHz, CDCl_3

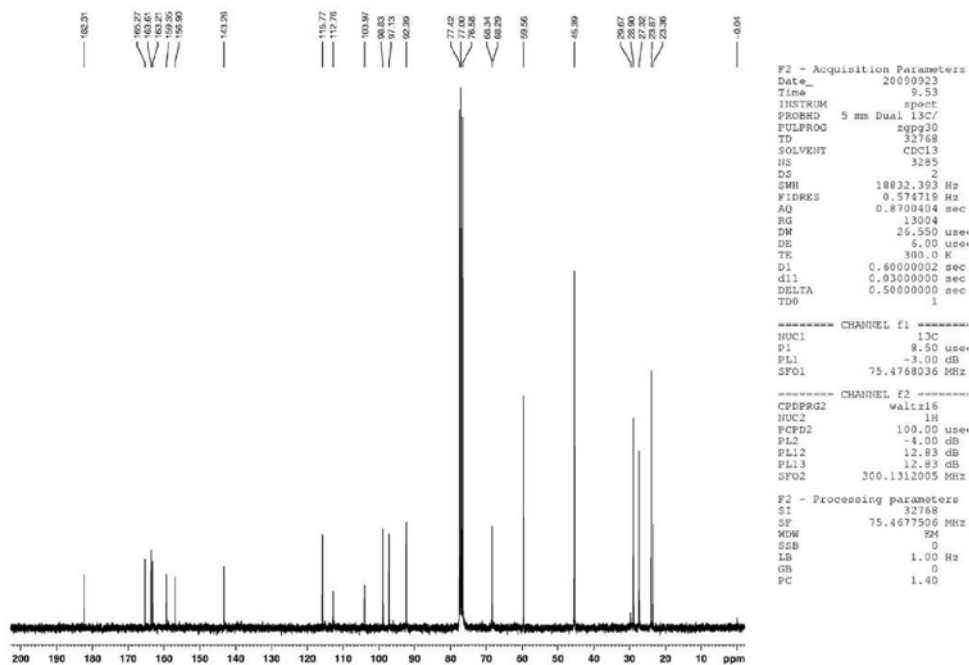
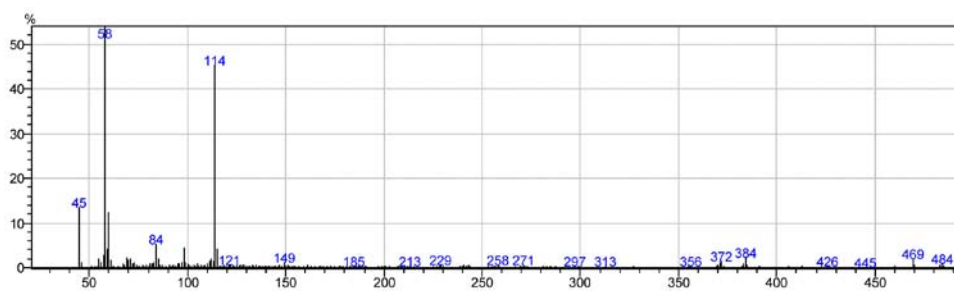
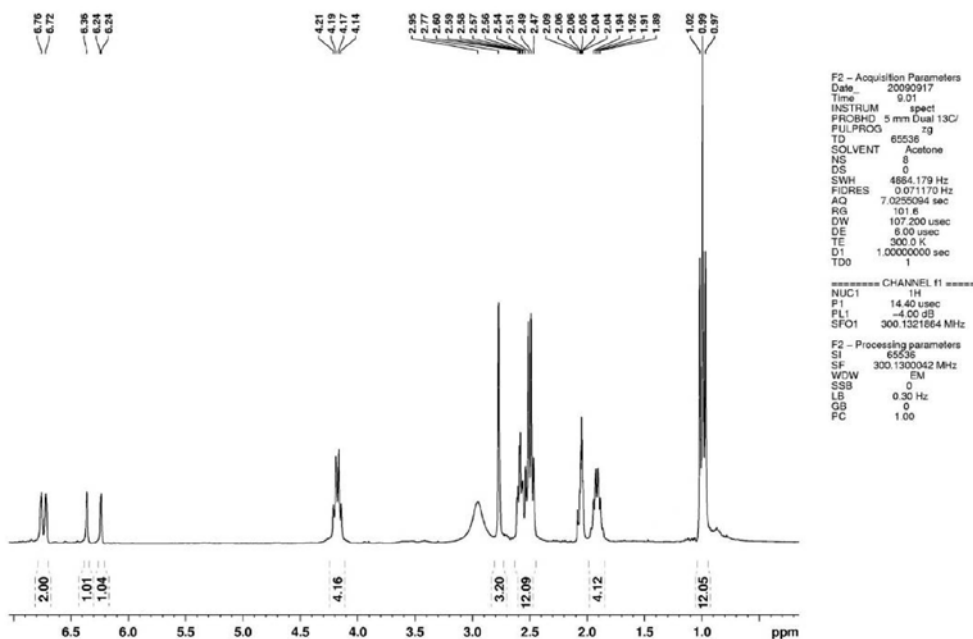
Figure 16S. ^{13}C NMR spectrum of (8), 75 MHz, CDCl_3 

Figure 17S. EI/MS spectrum of (8)

Figure 18S. ^1H NMR spectrum of (9), 300 MHz, $\text{acetone-}d_6$

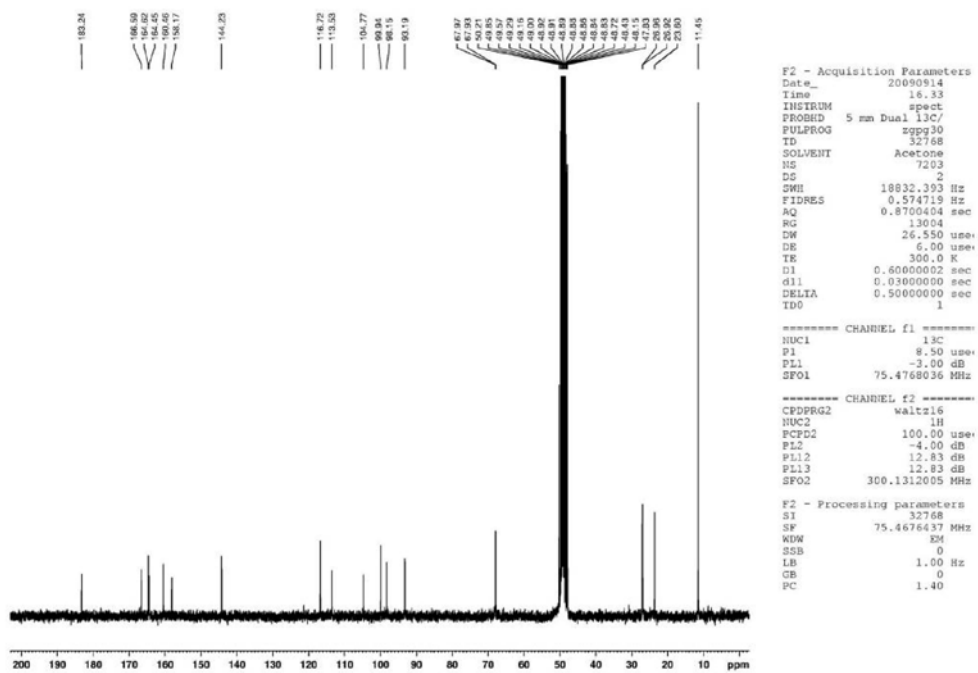
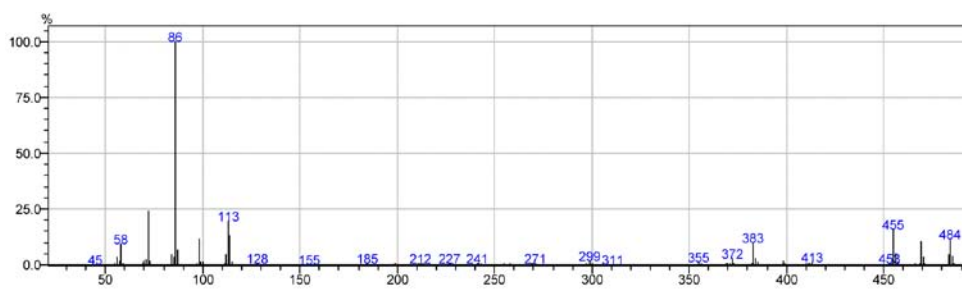
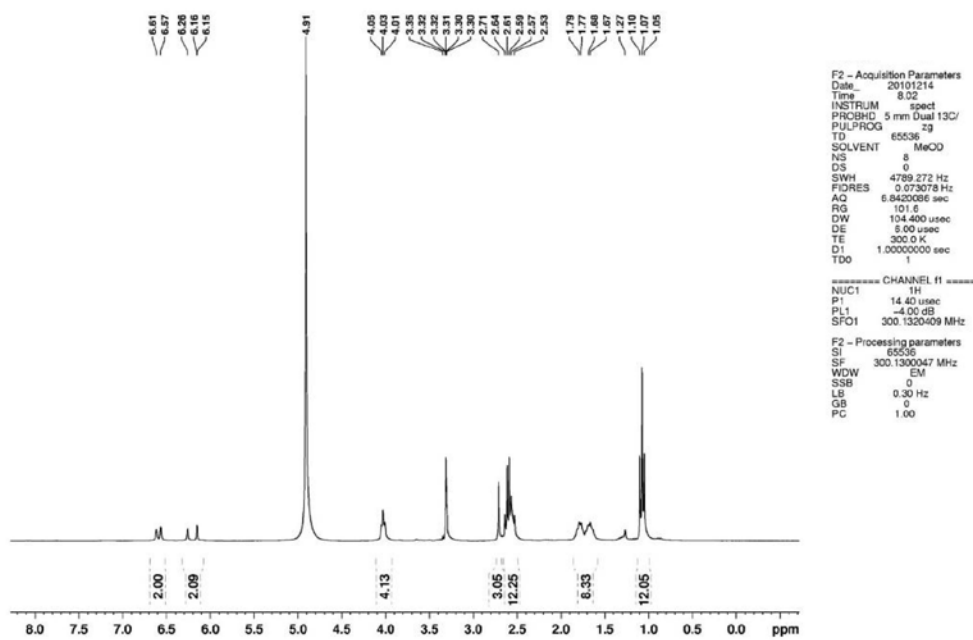
Figure 19S. ¹³C NMR spectrum of (9), 75 MHz, methanol-*d*₄.

Figure 20S. EI/MS spectrum of (9)

Figure 21S. ¹H spectrum of (10), 300 MHz, methanol-*d*₄.

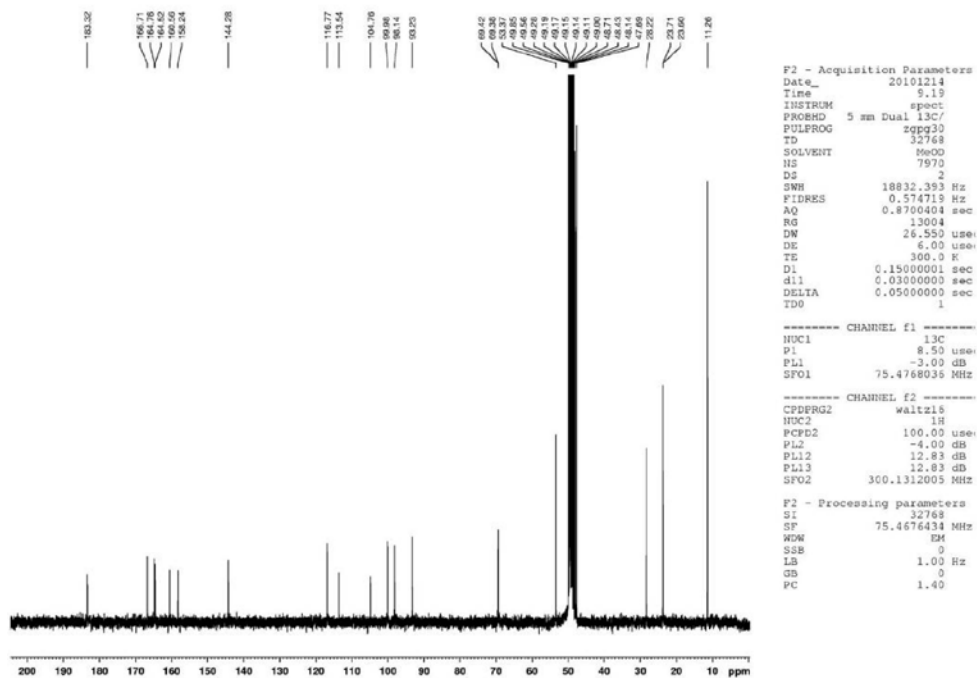
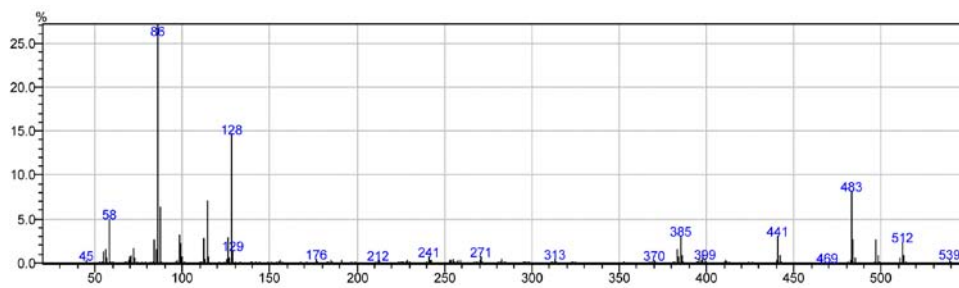
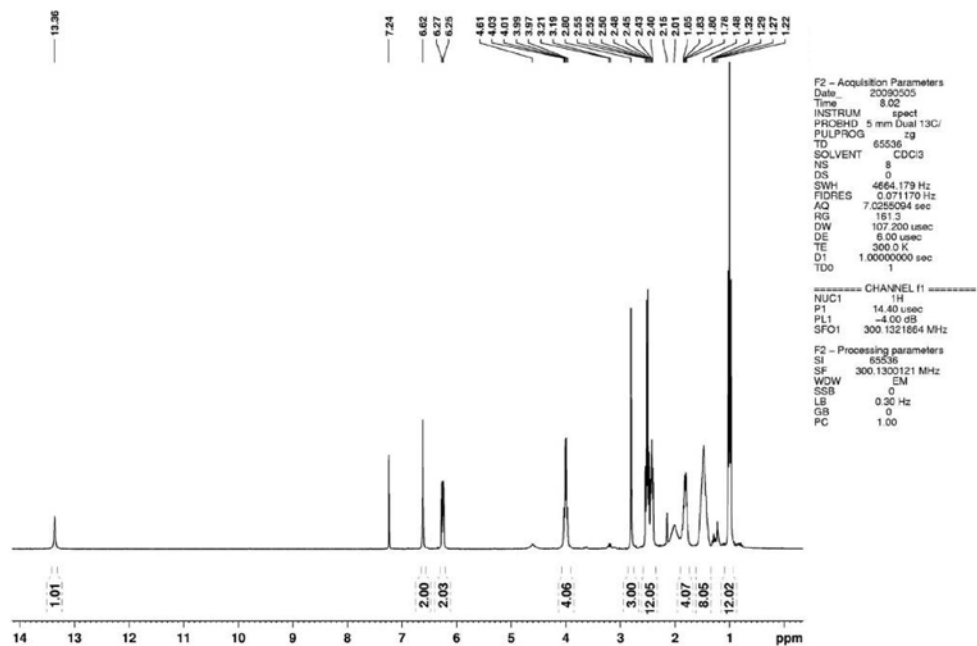
Figure 22S. ^{13}C NMR spectrum of (10), 75 MHz, methanol- d_4 

Figure 23S. EI/MS spectrum of (10)

Figure 24S. ^1H NMR spectrum of (11), 300 MHz, CDCl_3

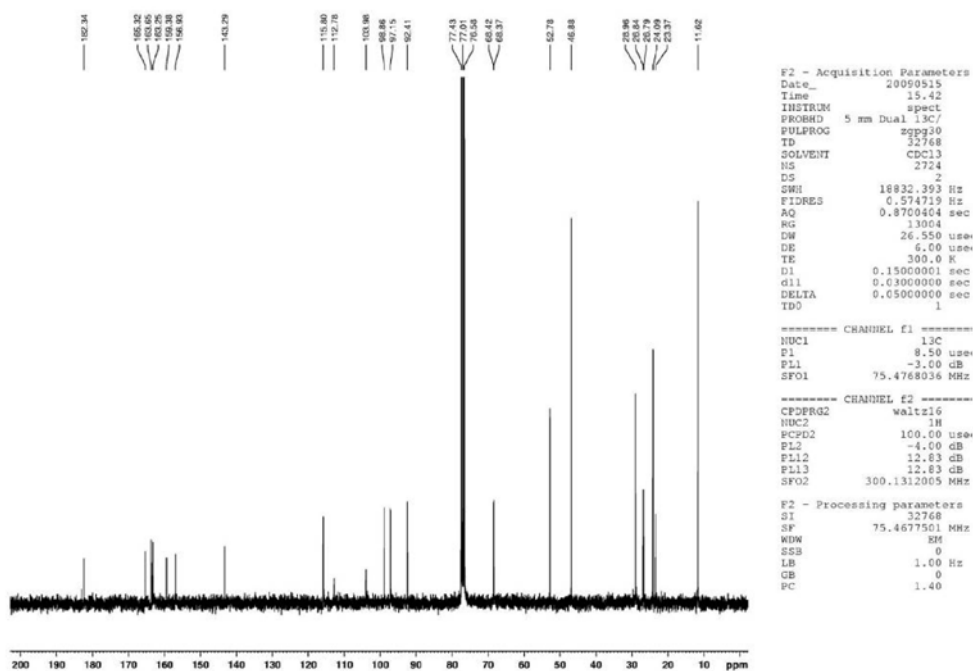
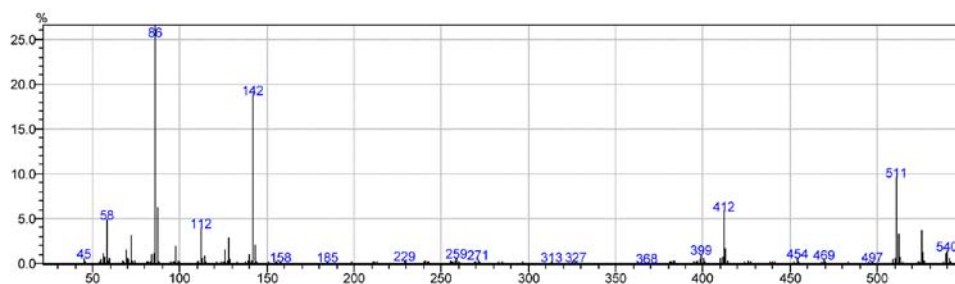
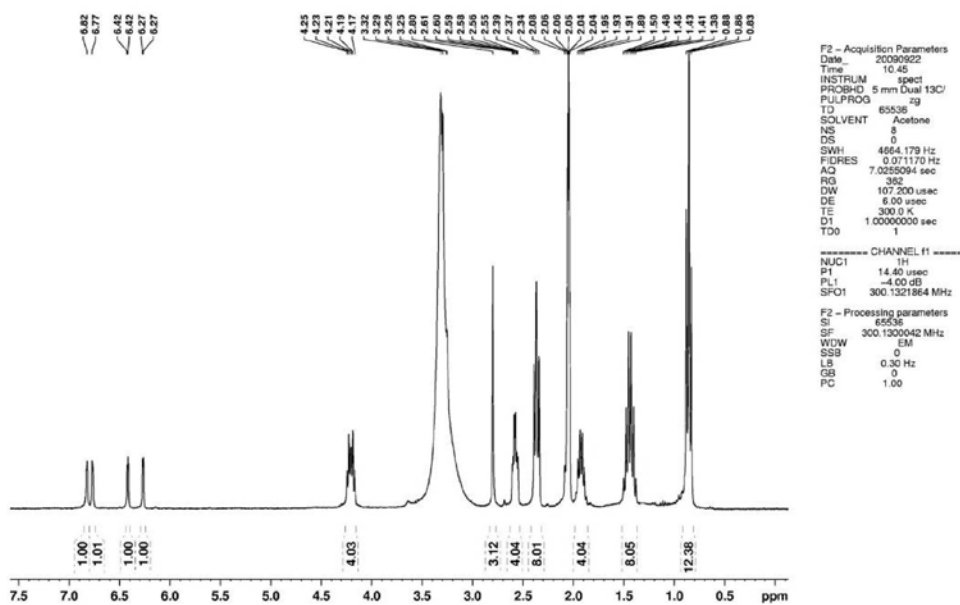
Figure 25S. ^{13}C NMR spectrum of (11), 75 MHz, CDCl_3 

Figure 26S. EI/MS spectrum of (11)

Figure 27S. ^1H NMR spectrum of (12), 300 MHz, $\text{acetone-}d_6/\text{methanol-}d_4$

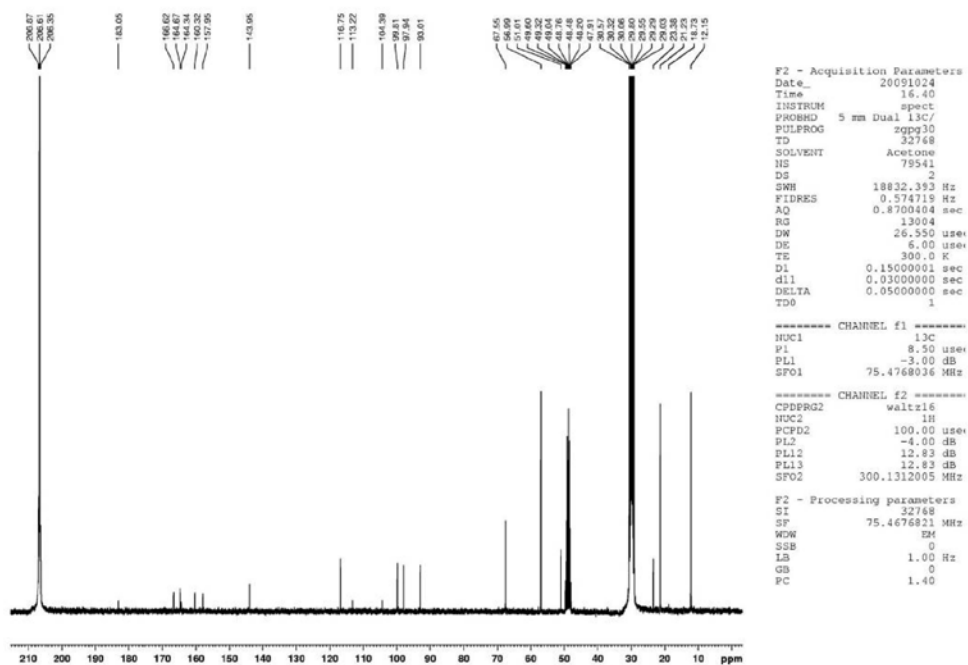


Figure 28S. ^{13}C NMR spectrum of (12), 75 MHz, acetone- d_6 /methanol- d_4 ,

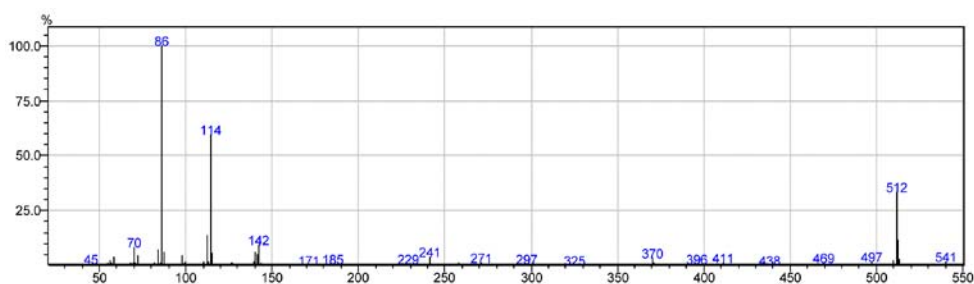


Figure 29S. EI/MS spectrum of (12)

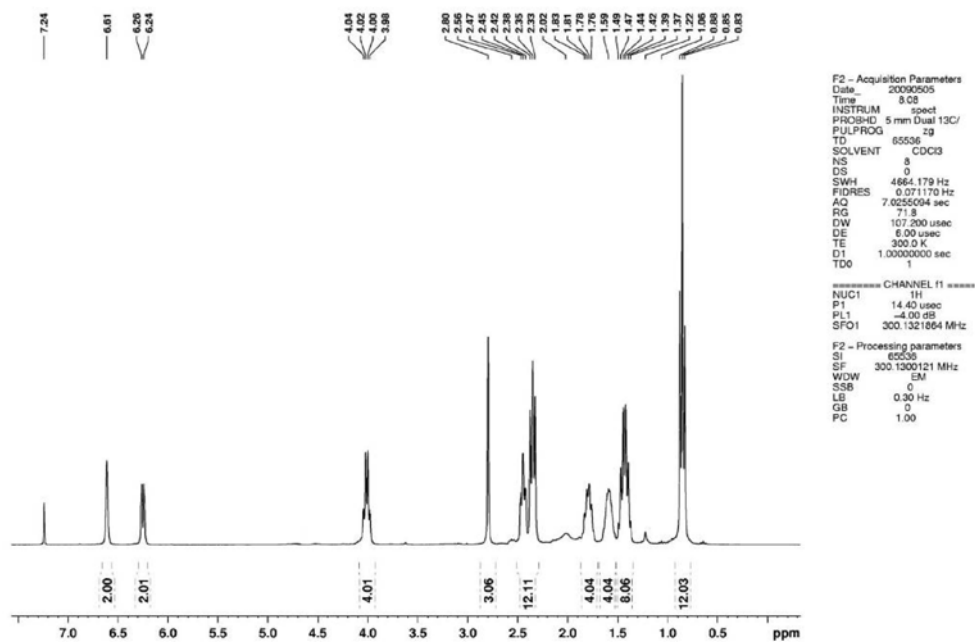
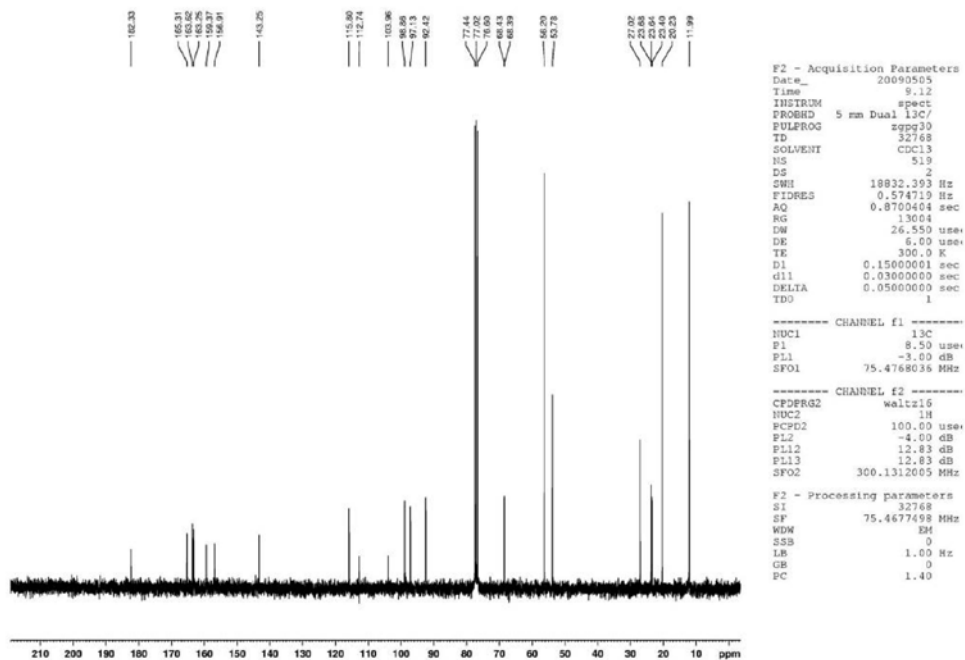
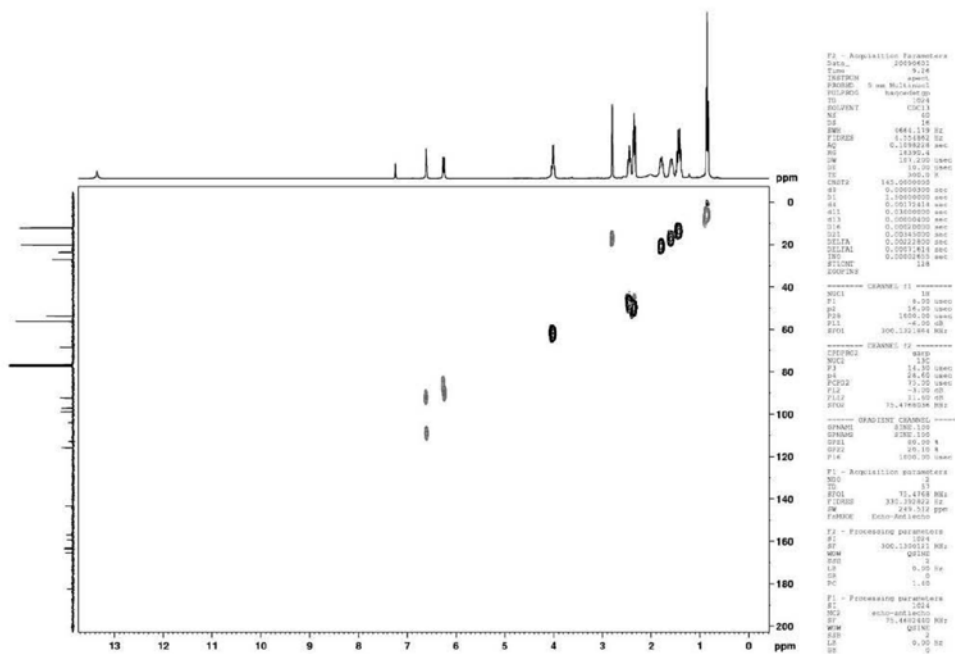


Figure 30S. ^1H NMR spectrum of (13), 300 MHz, CDCl_3 ,

Figure 31S. ^{13}C NMR spectrum of (13), 75 MHz, CDCl_3 Figure 32S. HSQC spectrum of (13), CDCl_3

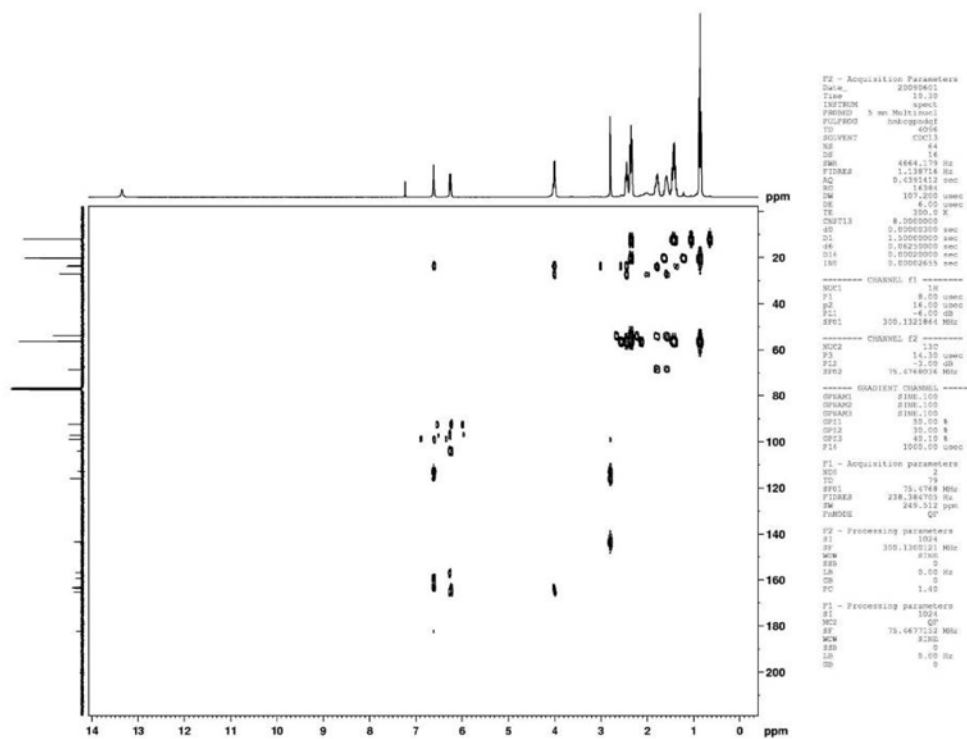
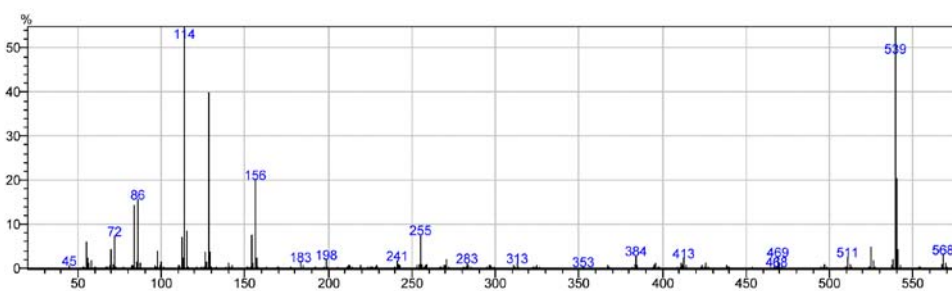
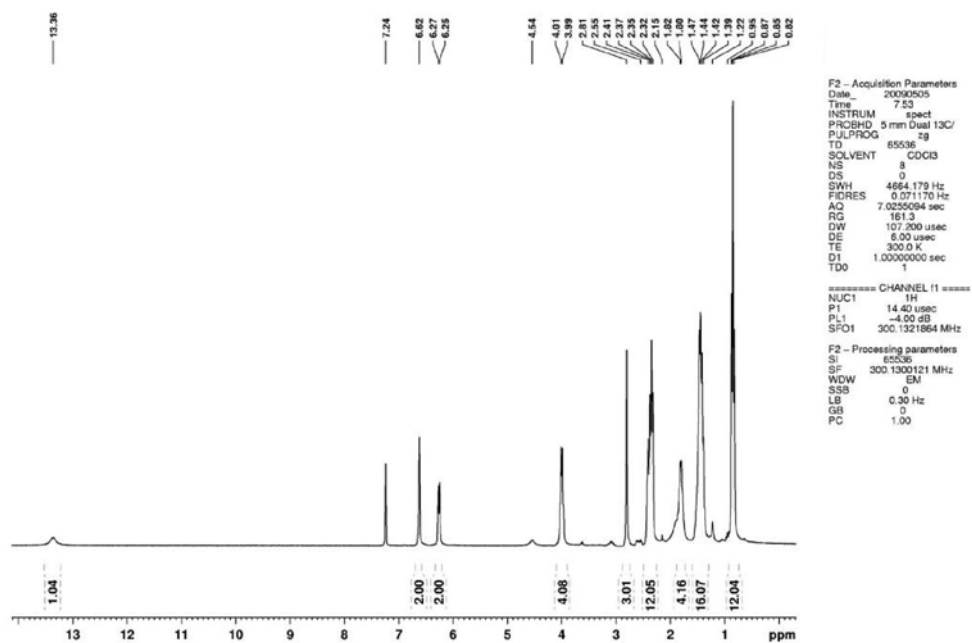
Figure 33S. HMBC spectrum of (13), $CDCl_3$ 

Figure 34S. EI/MS spectrum of (13)

Figure 35S. 1H NMR spectrum of (14), 300 MHz, $CDCl_3$

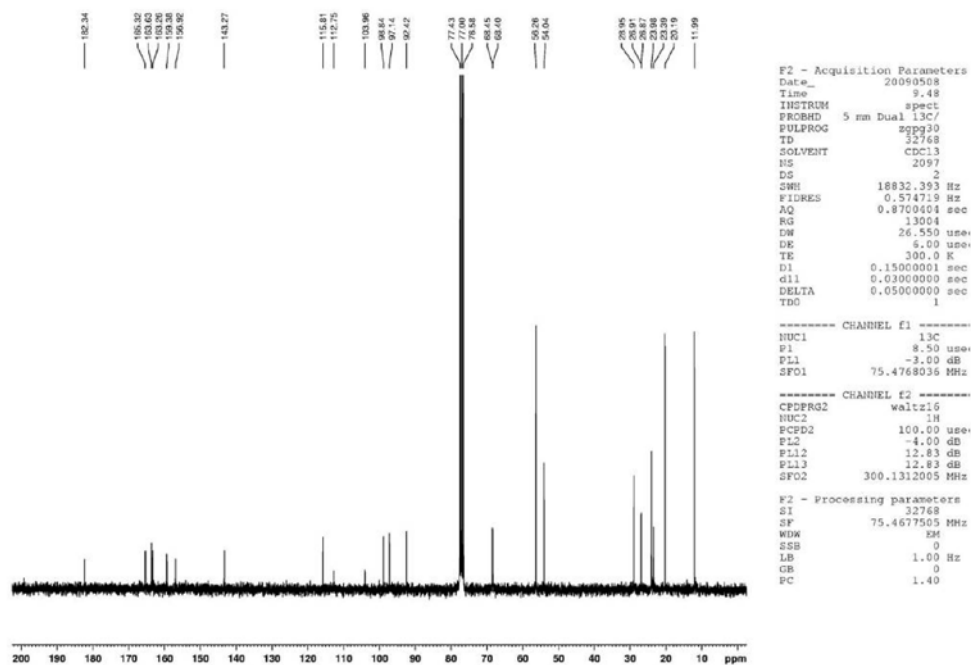


Figure 36S. ^{13}C NMR spectrum of (**14**), 75 MHz, CDCl_3

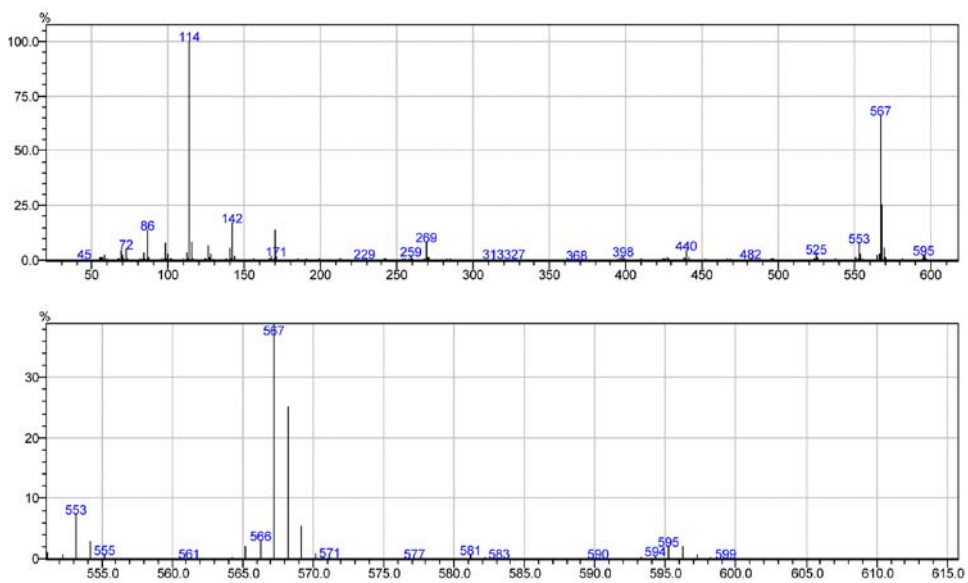


Figure 37S. EI/MS spectrum of (**14**)

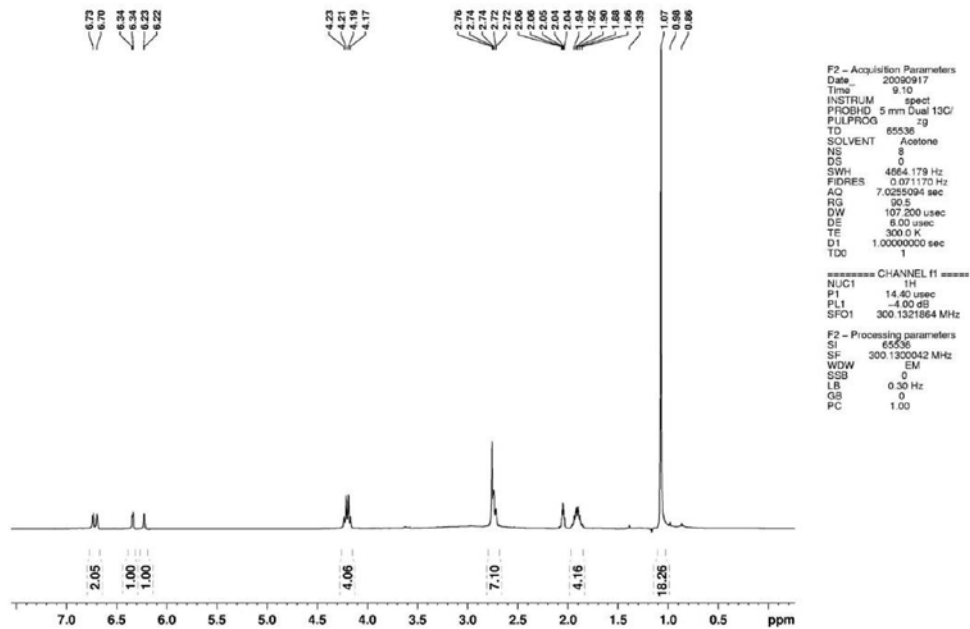


Figure 40S. ¹H NMR spectrum of (15), 300 MHz, acetone-d₆

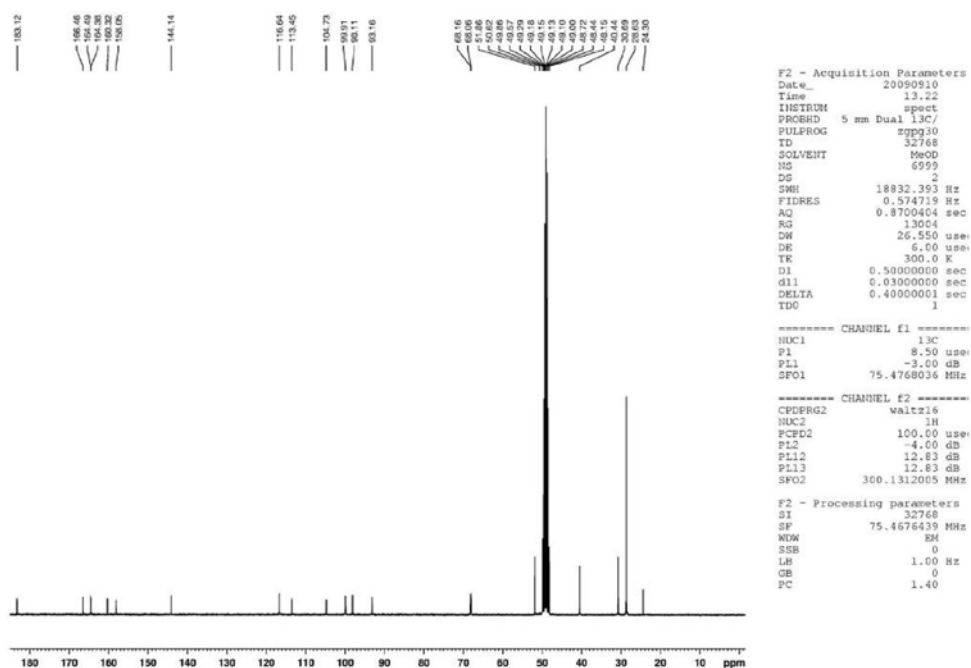


Figure 41S. ¹³C NMR spectrum of (15), 75 MHz, methanol-d₄

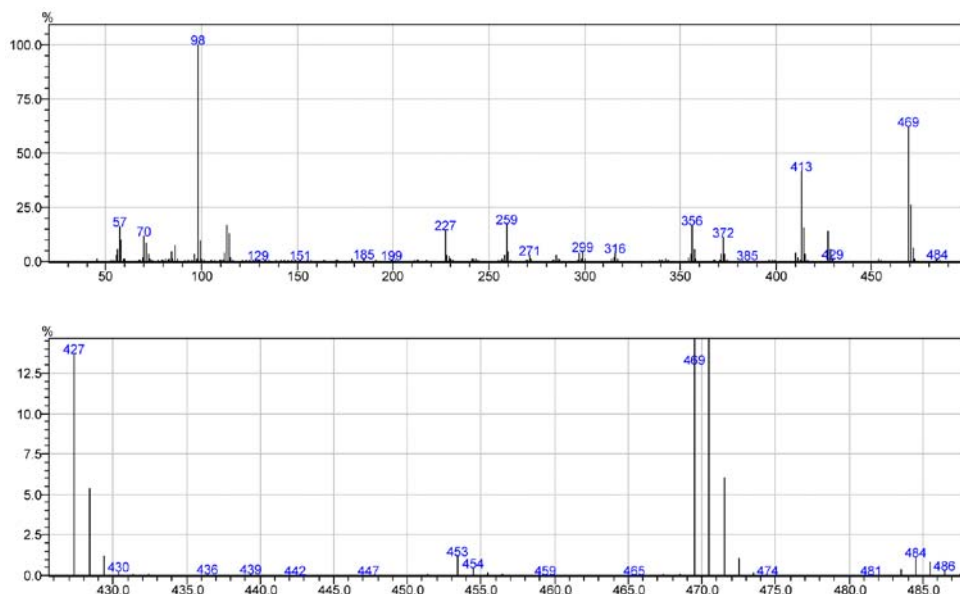


Figure 42S. EI/MS spectrum of (15)

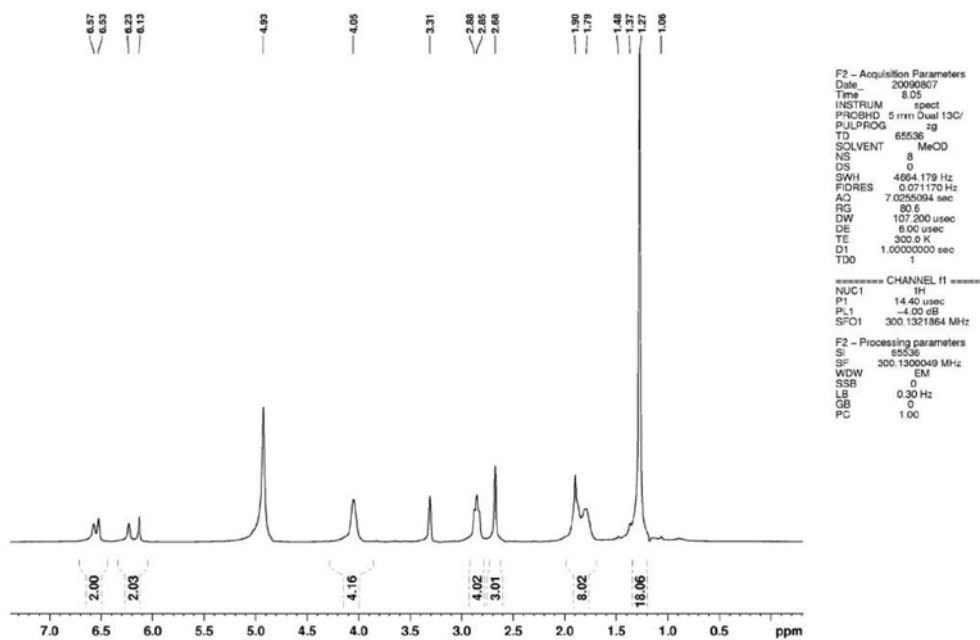


Figure 43S. ¹H NMR spectrum of (16), 300 MHz, methanol-d₄

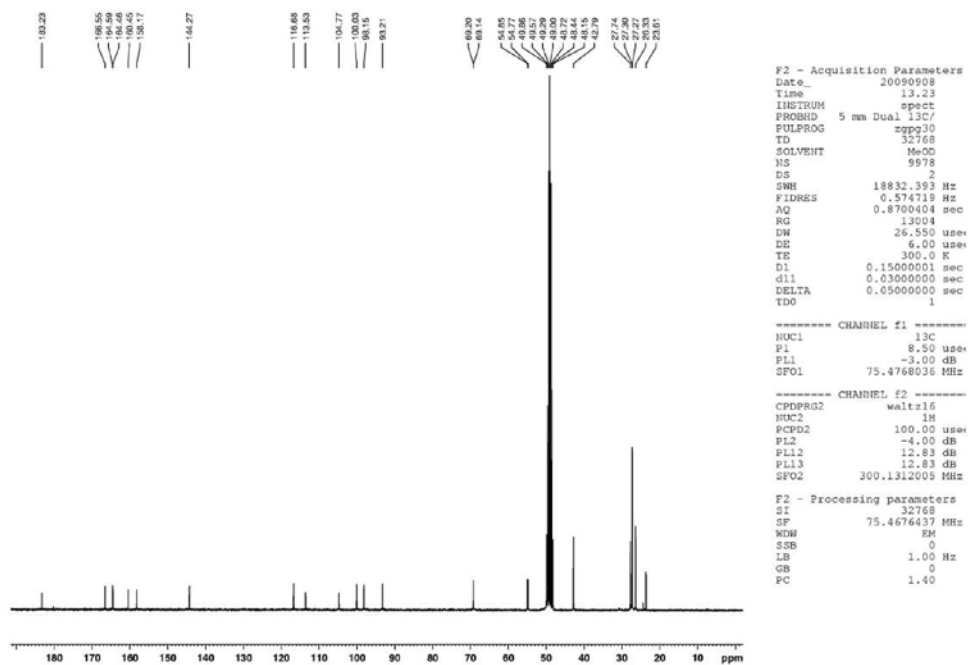


Figure 44S. ¹³C NMR spectrum of (16), 75 MHz, methanol-d₄

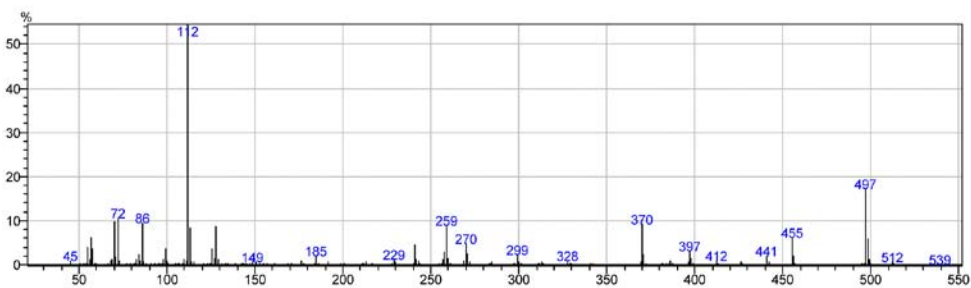


Figure 45S. EI/MS spectrum of (16)

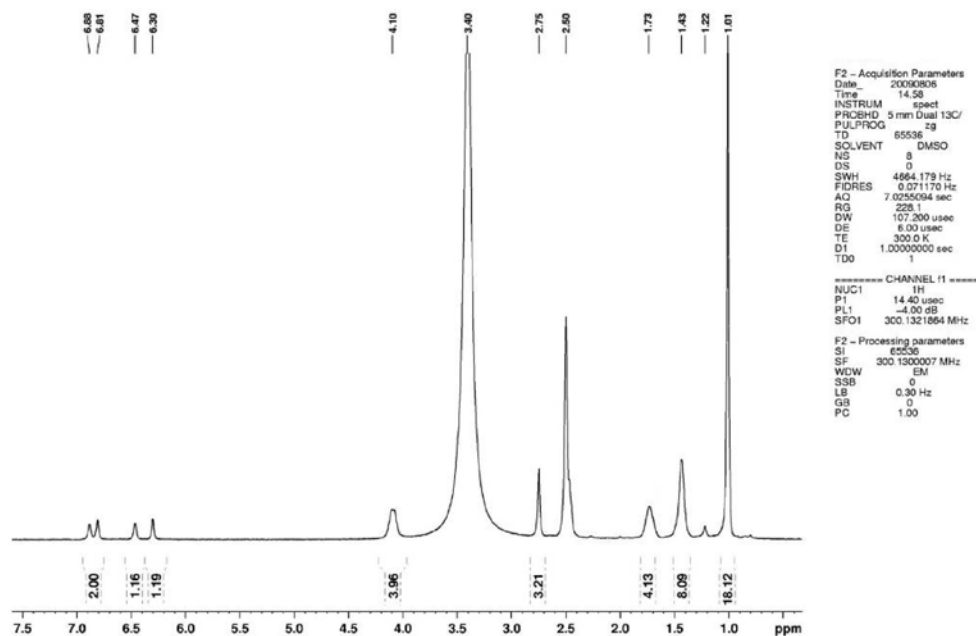


Figure 46S. ¹H NMR spectrum of (17), 300 MHz, DMSO-d₆

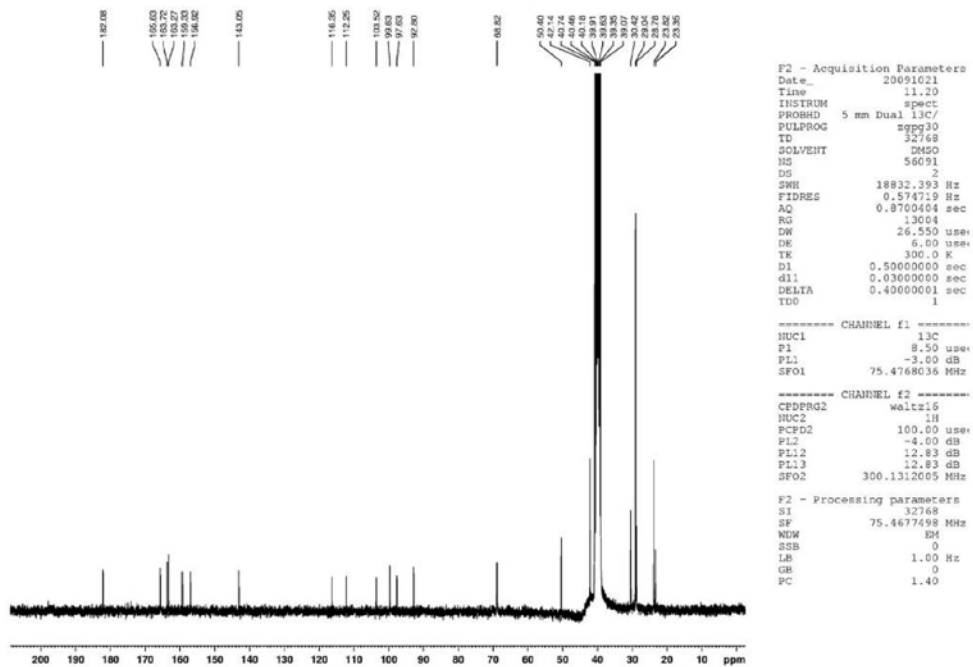


Figure 47S. ^{13}C NMR spectrum of (17), 75 MHz, $\text{DMSO-}d_6$

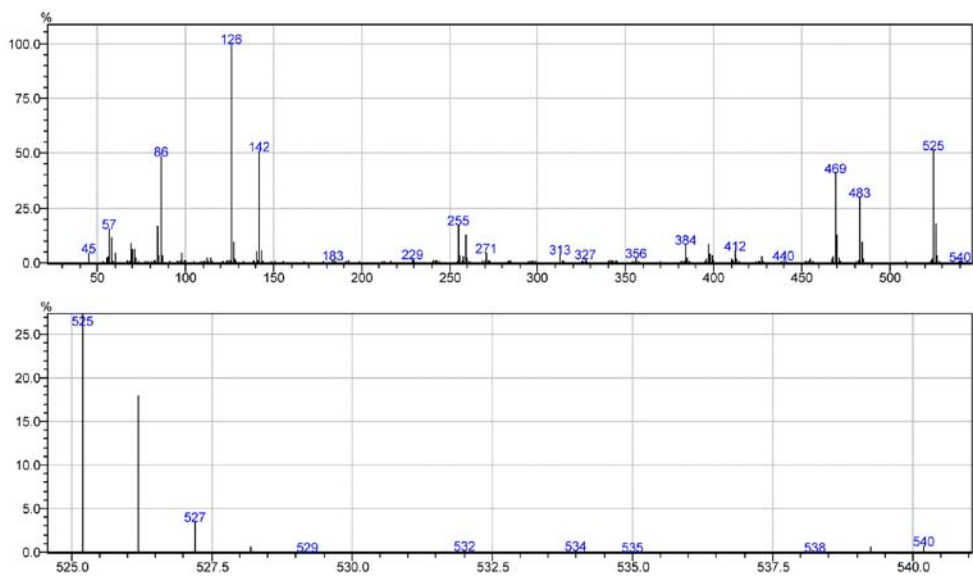


Figure 48S. EI/MS spectrum of (17)

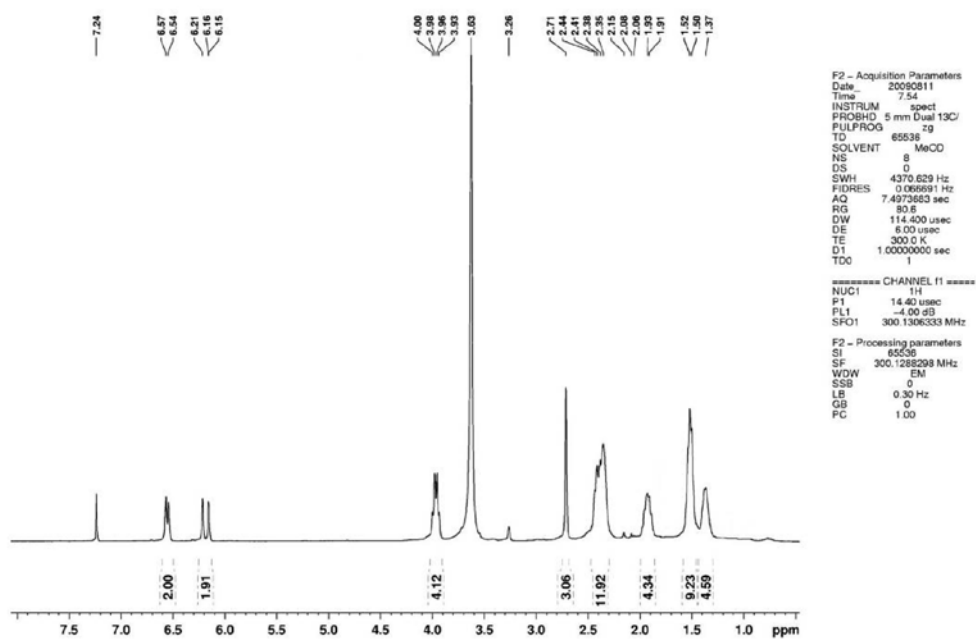


Figure 49S. ^1H NMR spectrum of (**18**), 300 MHz, $\text{CDCl}_3/\text{methanol-}d_4$

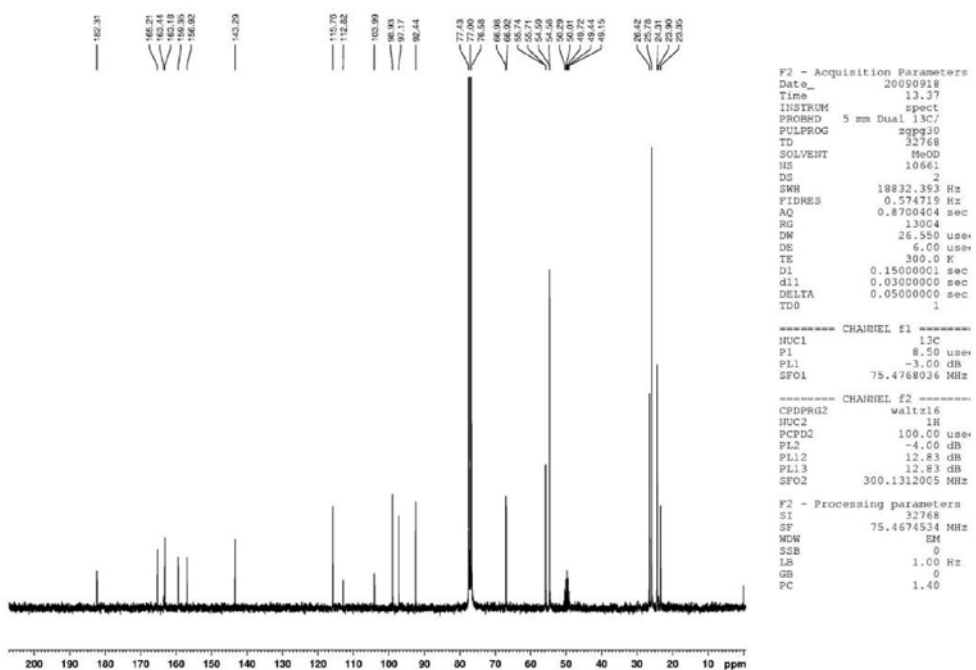


Figure 50S. ^{13}C NMR spectrum of (**18**), 75 MHz, $\text{CDCl}_3/\text{methanol-}d_4$

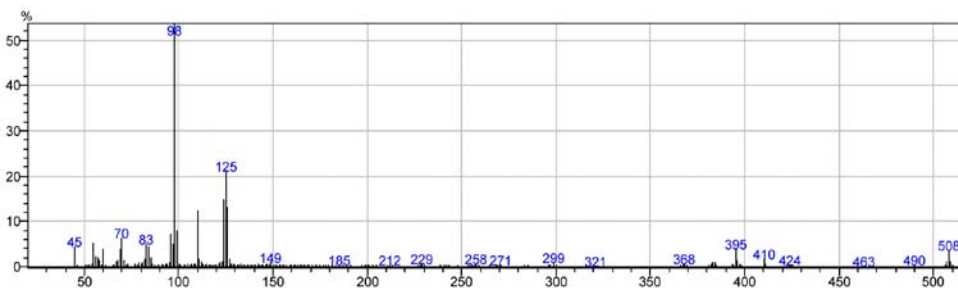
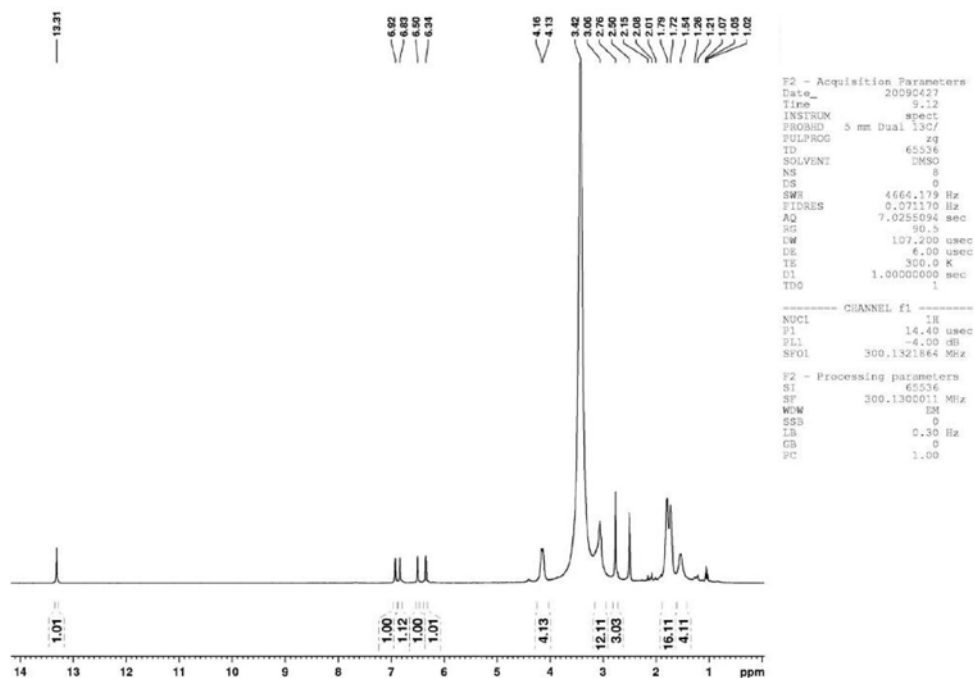
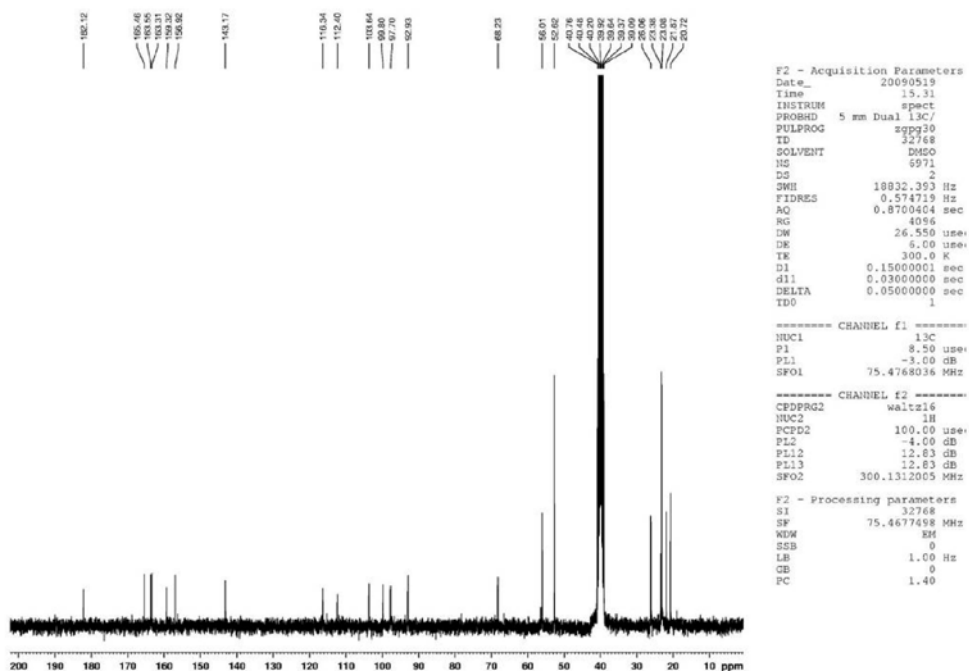
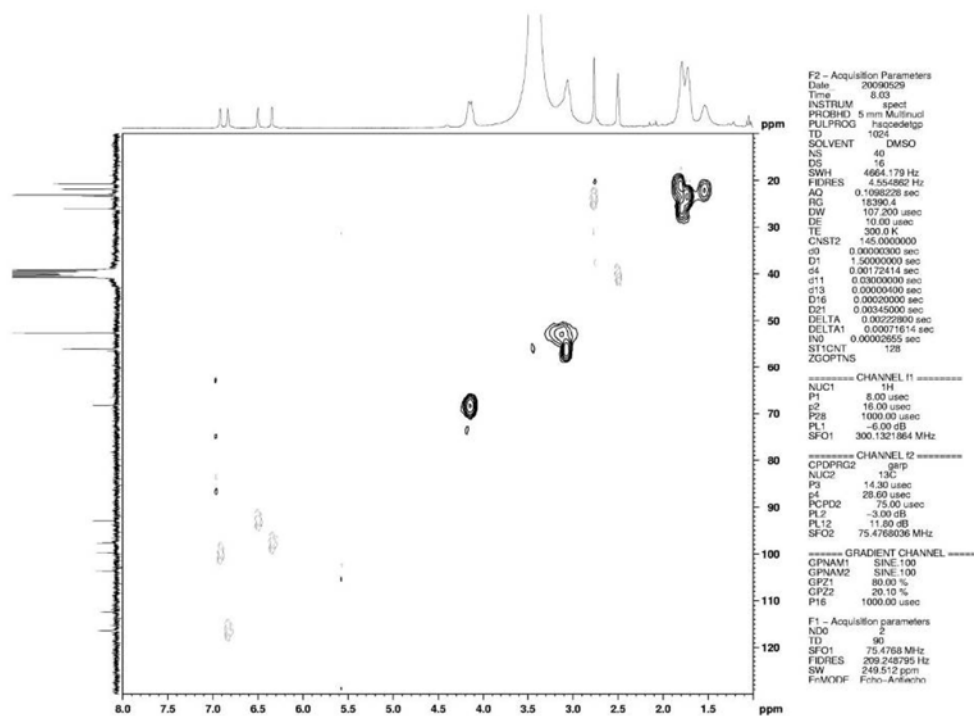
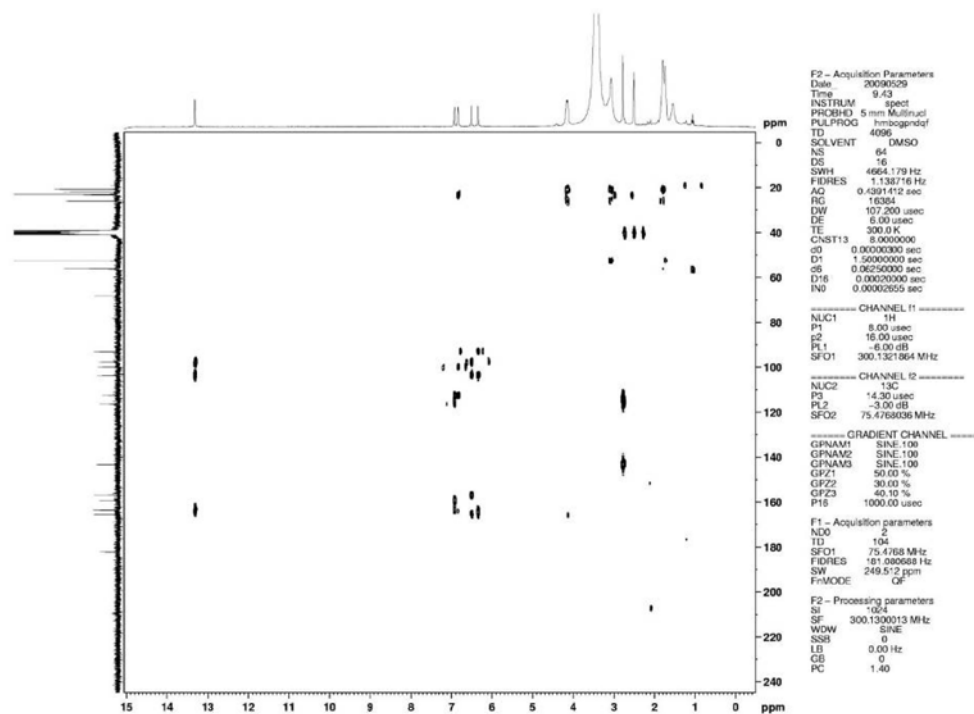


Figure 51S. EI/MS spectrum of (18)

Figure 52S. ^1H NMR spectrum of (19), 300 MHz, $\text{DMSO}-d_6$ Figure 53S. ^{13}C NMR spectrum of (19), 75 MHz, $\text{DMSO}-d_6$

Figure 54S. HSQC spectrum of (19), DMSO- d_6 Figure 55S. HMBC spectrum of (19), DMSO- d_6

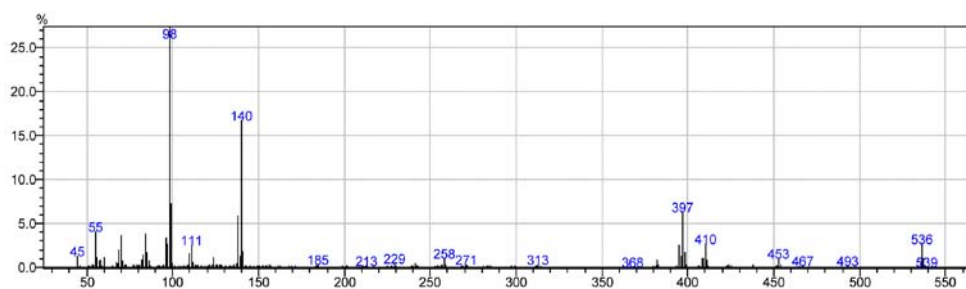
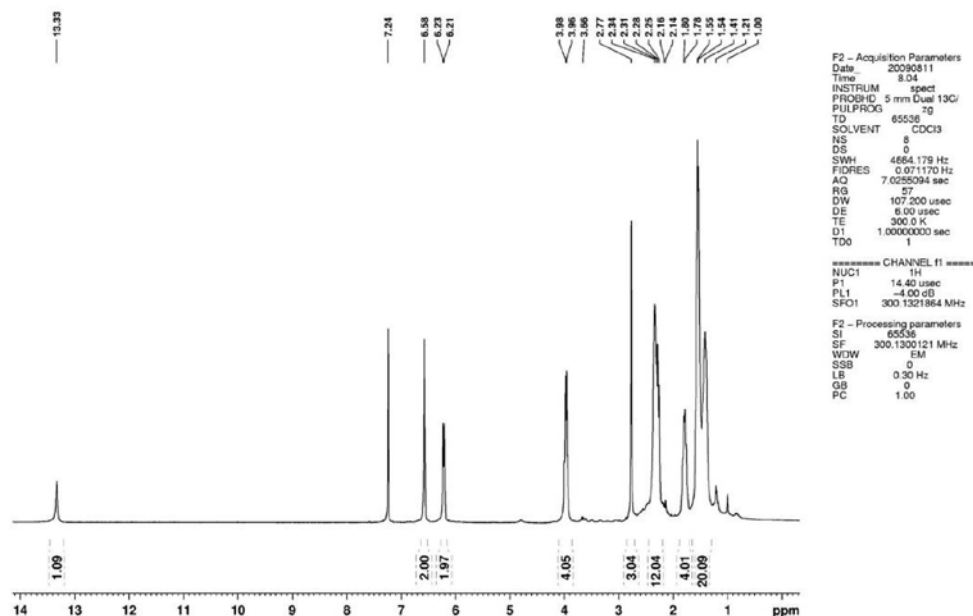
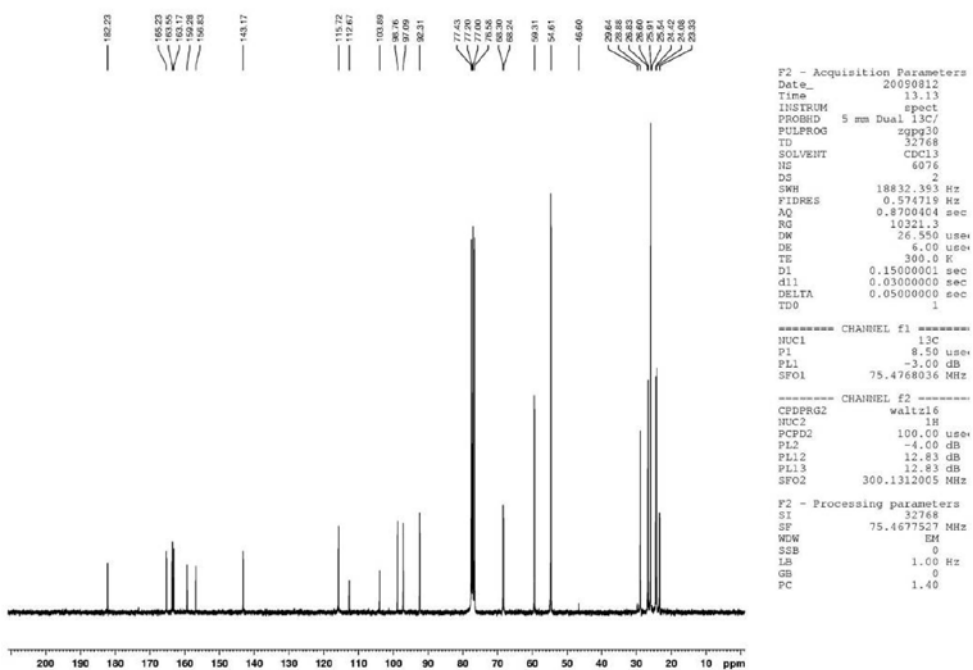


Figure 56S. EI/MS spectrum of (19)

Figure 57S. ^1H NMR spectrum of (20), 300 MHz, CDCl_3 Figure 58S. ^{13}C NMR spectrum of (20), 75 MHz, CDCl_3

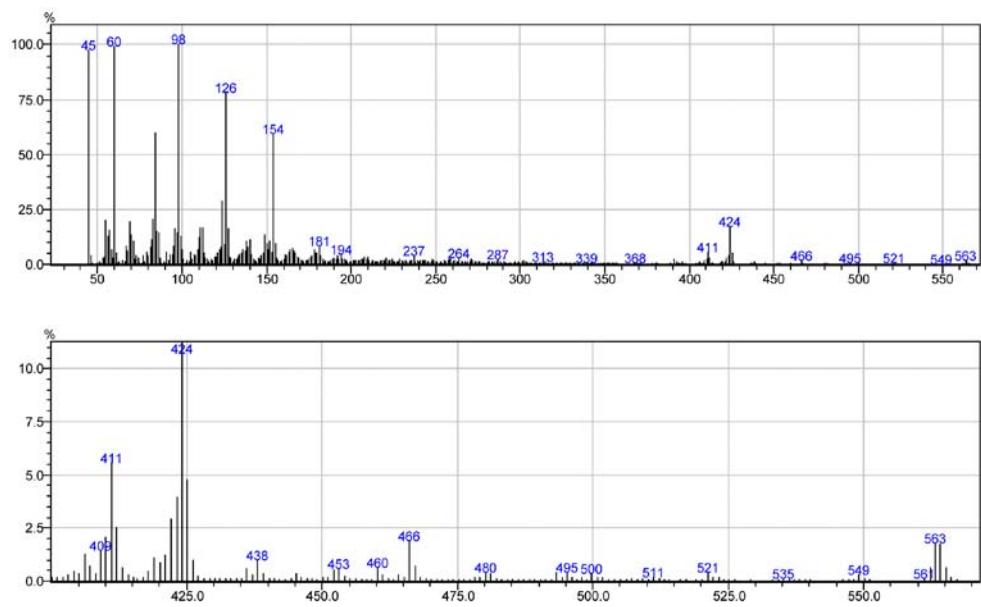


Figure S9S. EIMS spectrum of (20)