

Microwave-assisted simple synthesis of 2-anilinopyrimidines by the reaction of 2-chloro-4,6-dimethylpyrimidine with aniline derivatives

Cristina Campestre ^a, György Keglevich ^b, János Kóti ^c, Luca Scotti ^d, Carla Gasbarri ^a and Guido Angelini ^{a,*}

^a Department of Pharmacy, University “G. d’Annunzio” of Chieti-Pescara, via dei Vestini, 66100 Chieti, Italy

^b Department of Organic Chemistry and Technology, Budapest University of Technology and Economics, 1521 Budapest, Hungary

^c Spectroscopic Research Division, Gedeon Richter Plc., 1475 Budapest, Hungary

^d Department of Medical, Oral and Biotechnological Sciences, University “G. d’Annunzio” of Chieti-Pescara, via dei Vestini, 66100 Chieti, Italy

*Corresponding author (G. Angelini) guido.angelini@unich.it; Tel.: +39-0871-3554785

A. Spectra of compound 11

Fig.1 ¹H-NMR spectrum of compound 11 in CDCl₃.

Fig.2 ¹³C-NMR spectrum of compound 11 in CDCl₃.

Fig.3 HRMS of compound 11.

B. Spectra of compound 12

Fig.4 ¹H-NMR spectrum of compound 12 in CDCl₃.

Fig.5 ¹³C-NMR spectrum of compound 12 in CDCl₃.

Fig.6 HRMS of compound 12.

C. Spectra of compound 18

Fig.7 ¹H-NMR spectrum of compound 18 in CDCl₃.

Fig.8 ¹³C-NMR spectrum of compound 18 in CDCl₃.

Fig.9 HRMS of compound 18.

D. Microwave conditions for the synthesis of compound 1

A. Spectra of compound 11

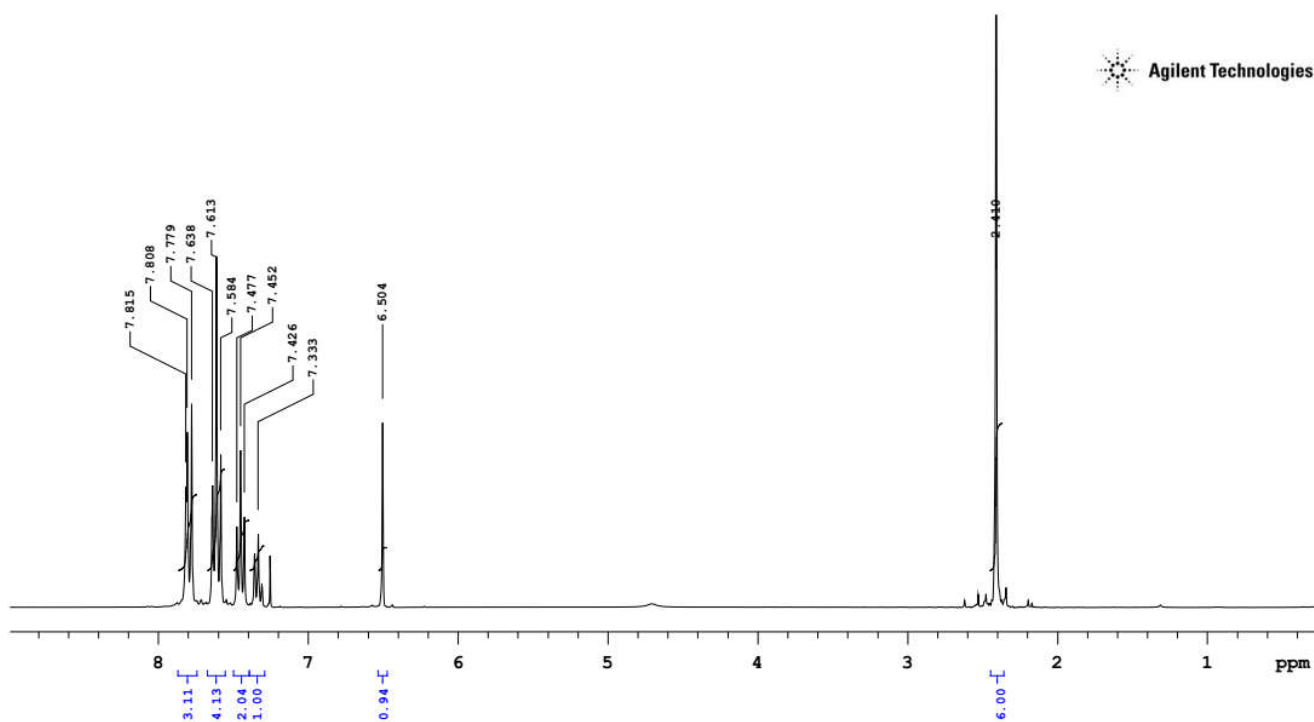
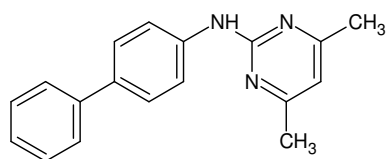


Fig.1 ^1H -NMR spectrum of compound 11 in CDCl_3 .

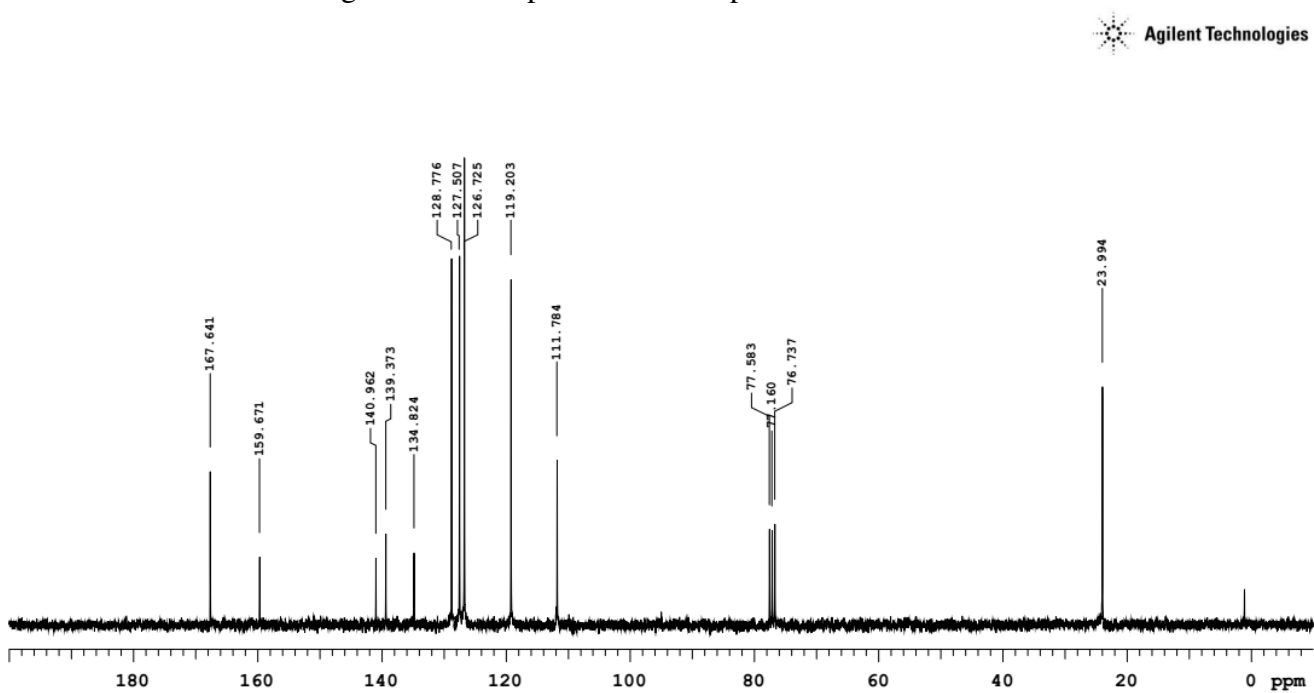


Fig.2 ^{13}C -NMR spectrum of compound 11 in CDCl_3 .

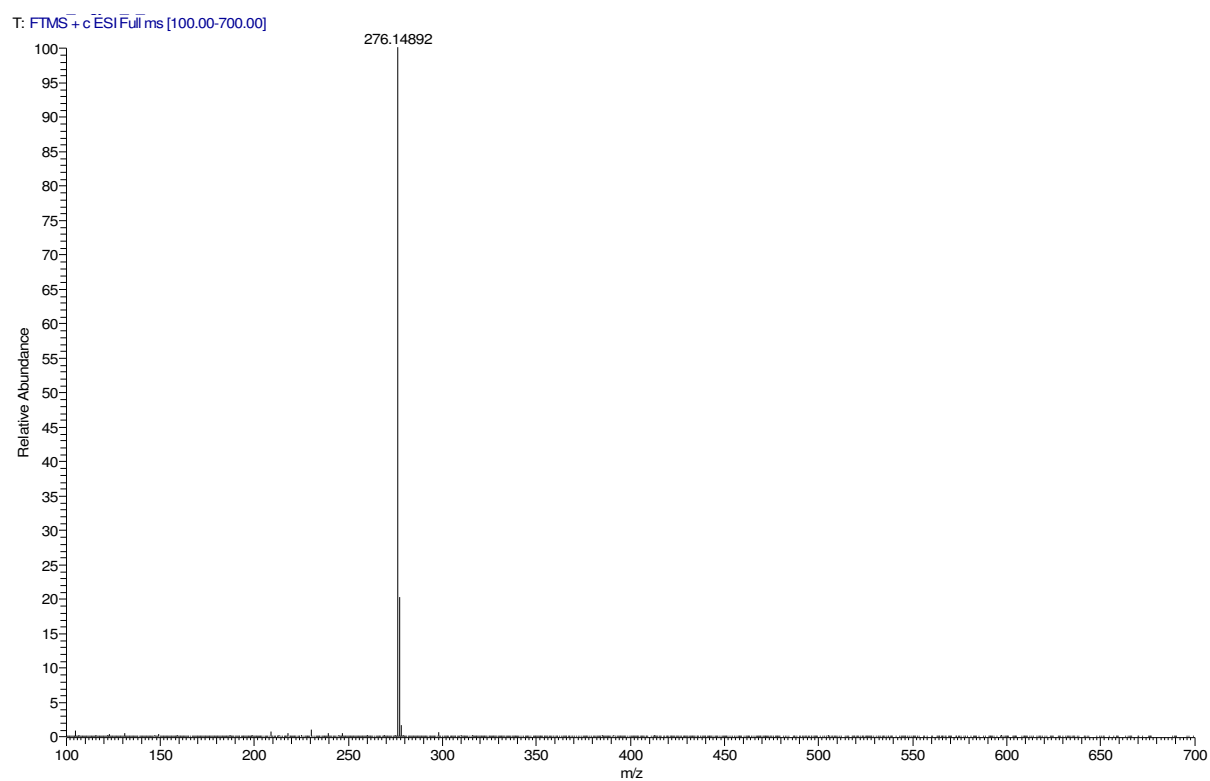


Fig.3 HRMS of compound 11.

B. Spectra of compound 12

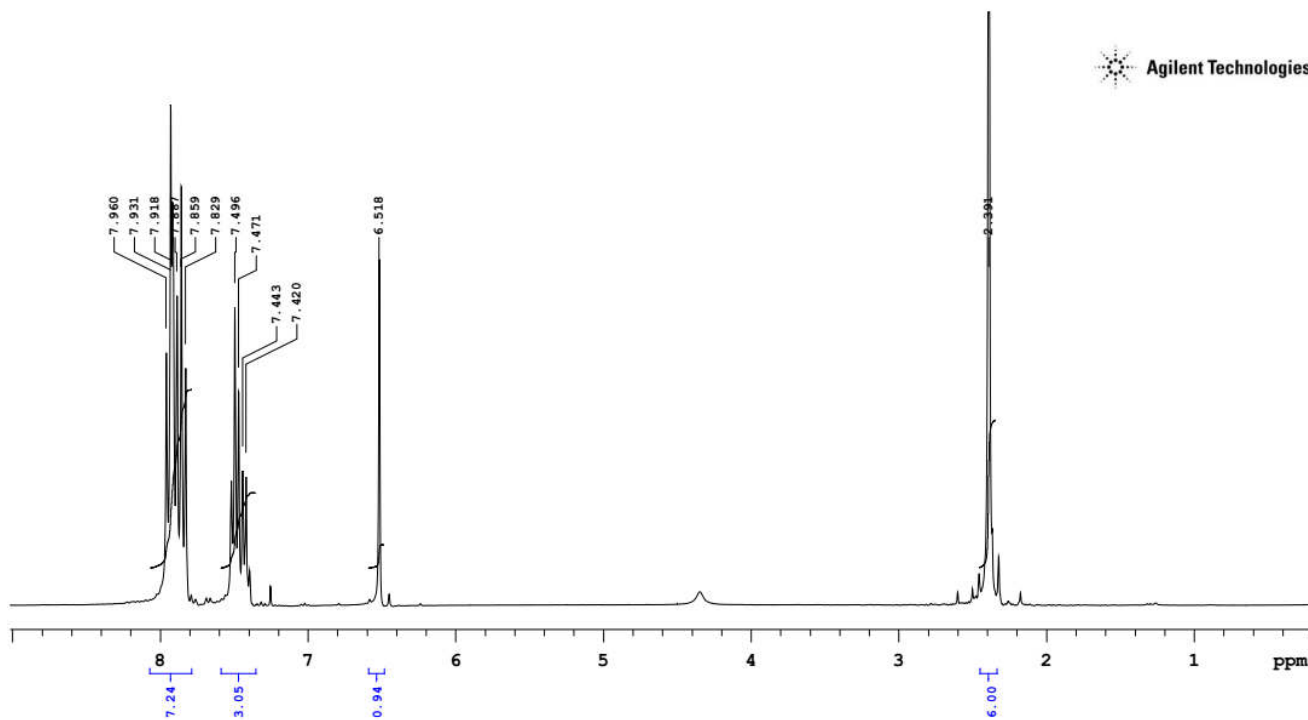
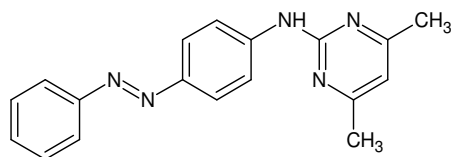


Fig.4 ^1H -NMR spectrum of compound 12 in CDCl_3 .

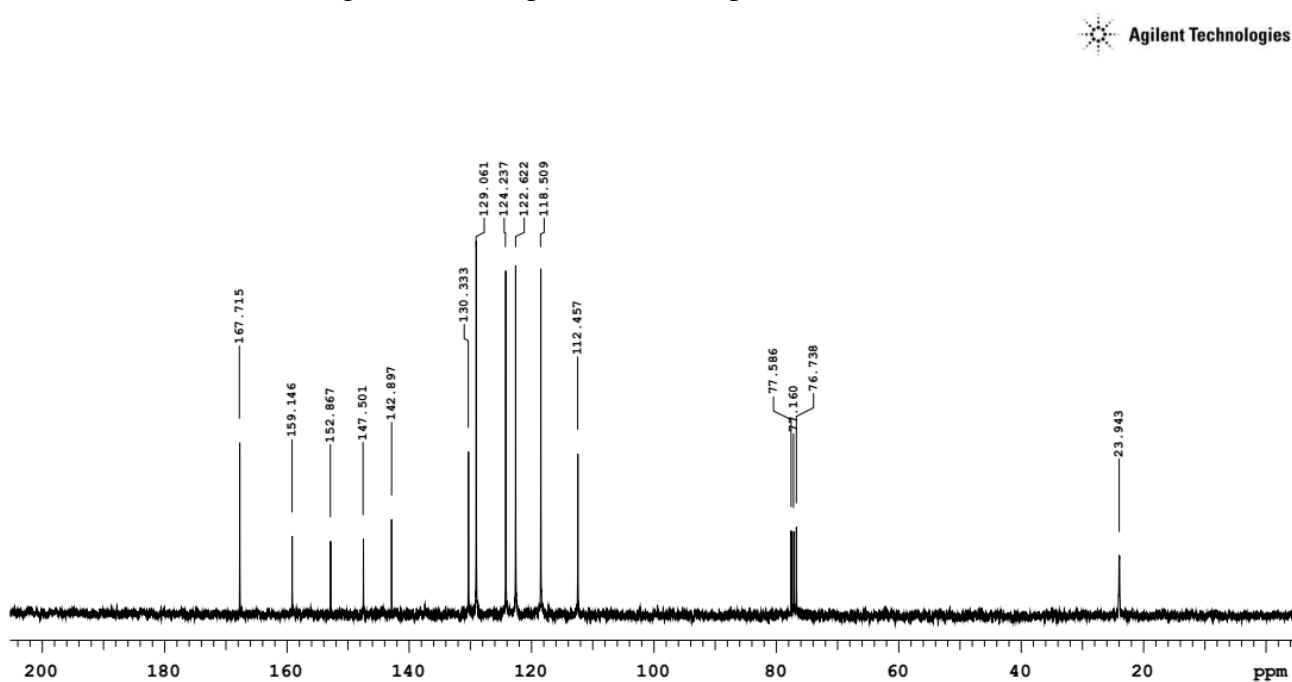


Fig.5 ^{13}C -NMR spectrum of compound 12 in CDCl_3 .

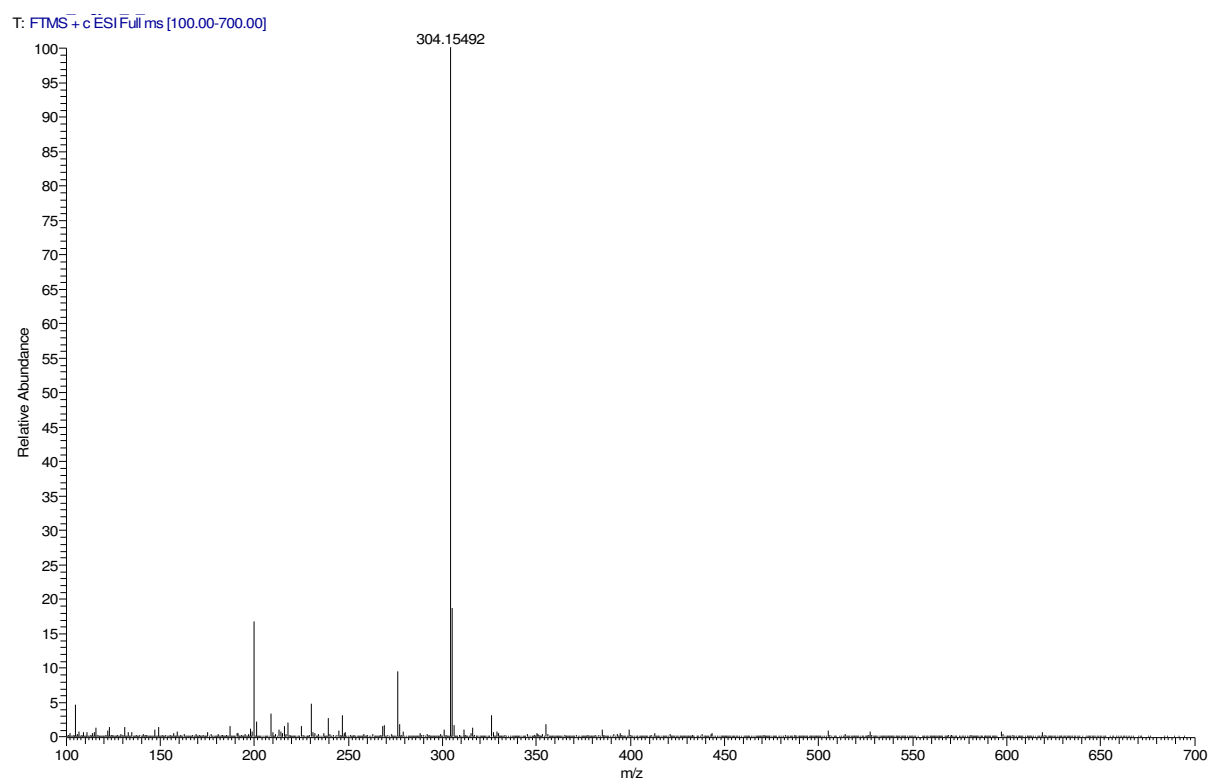


Fig.6 HRMS of compound 12.

C. Spectra of compound 18

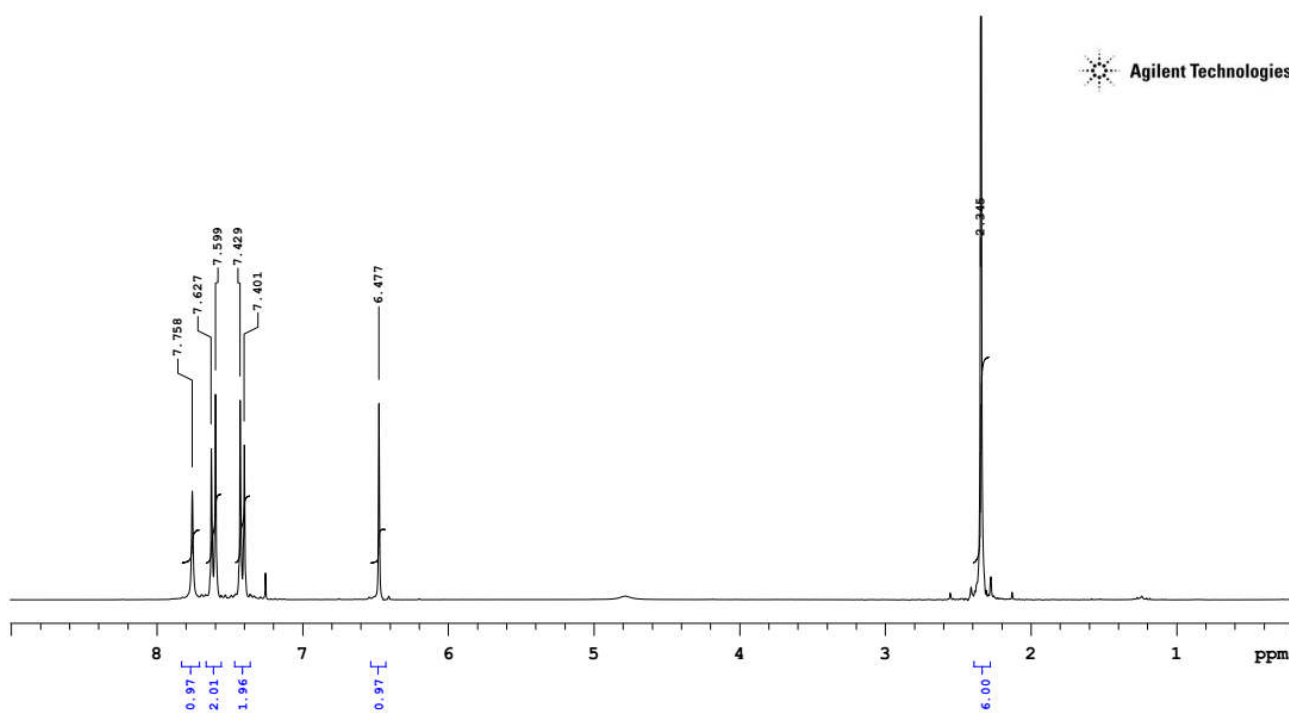
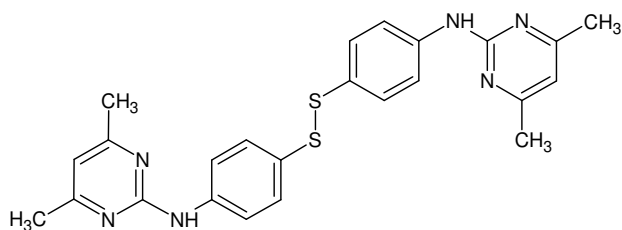


Fig.7 ^1H -NMR spectrum of compound 18 in CDCl_3 .

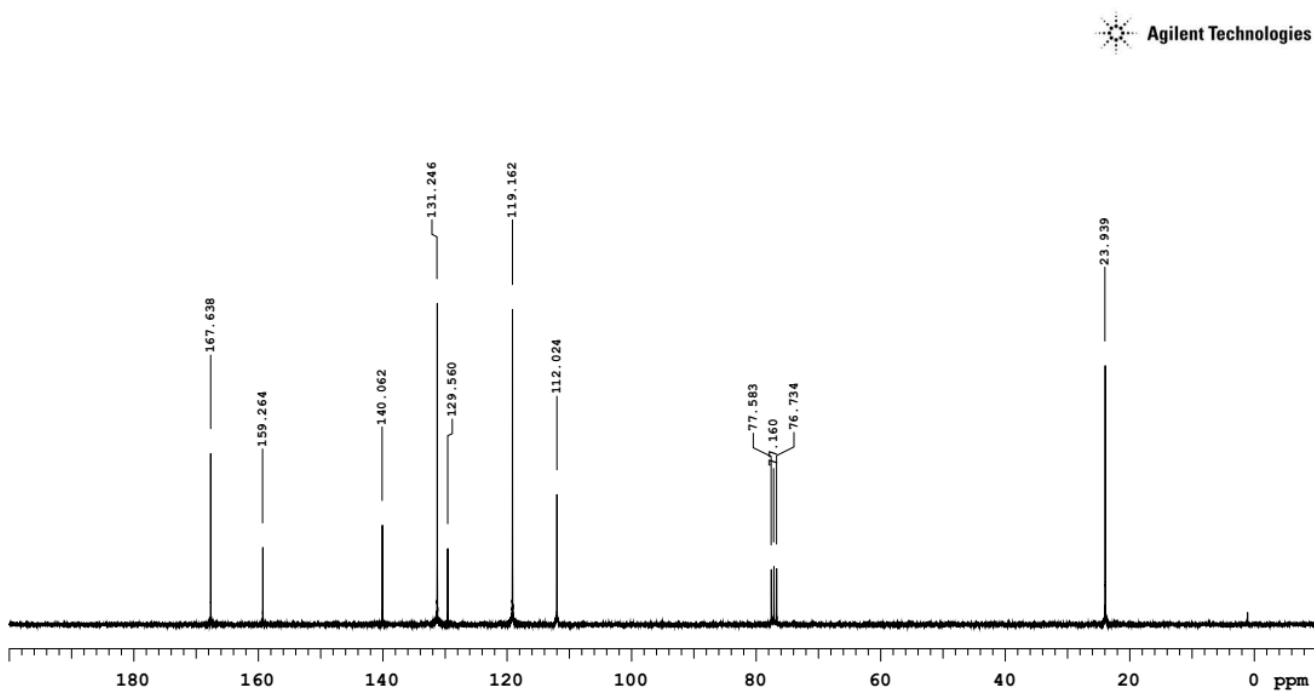


Fig.8 ^{13}C -NMR spectrum of compound 18 in CDCl_3 .

T: FTMS + c ESI Full ms [100.00-1000.00]

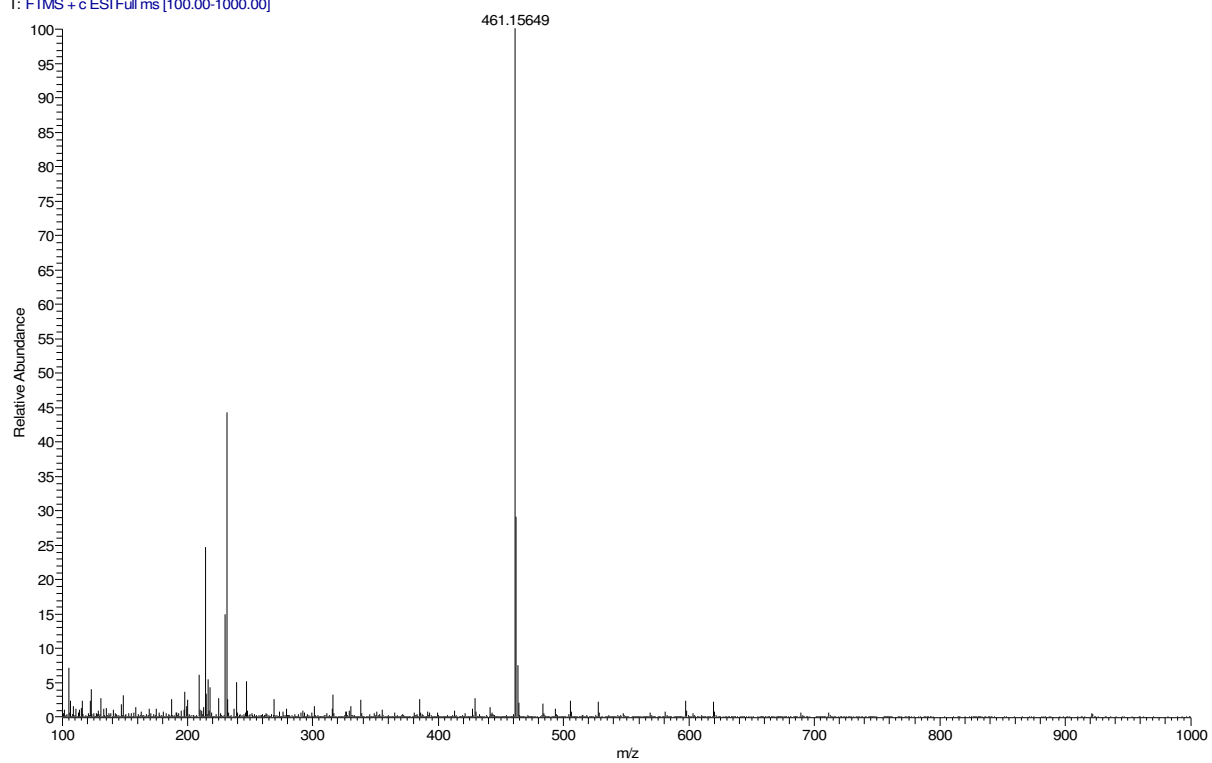


Fig.9 HRMS of compound 18.

D. Table S1. Microwave conditions for the synthesis of compound 1

Time / min	T / °C	Yield / %
5	130	17
10	130	49
15	130	71
30	130	80
20	140	90
10	150	88
10	160	90