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## APPENDIX

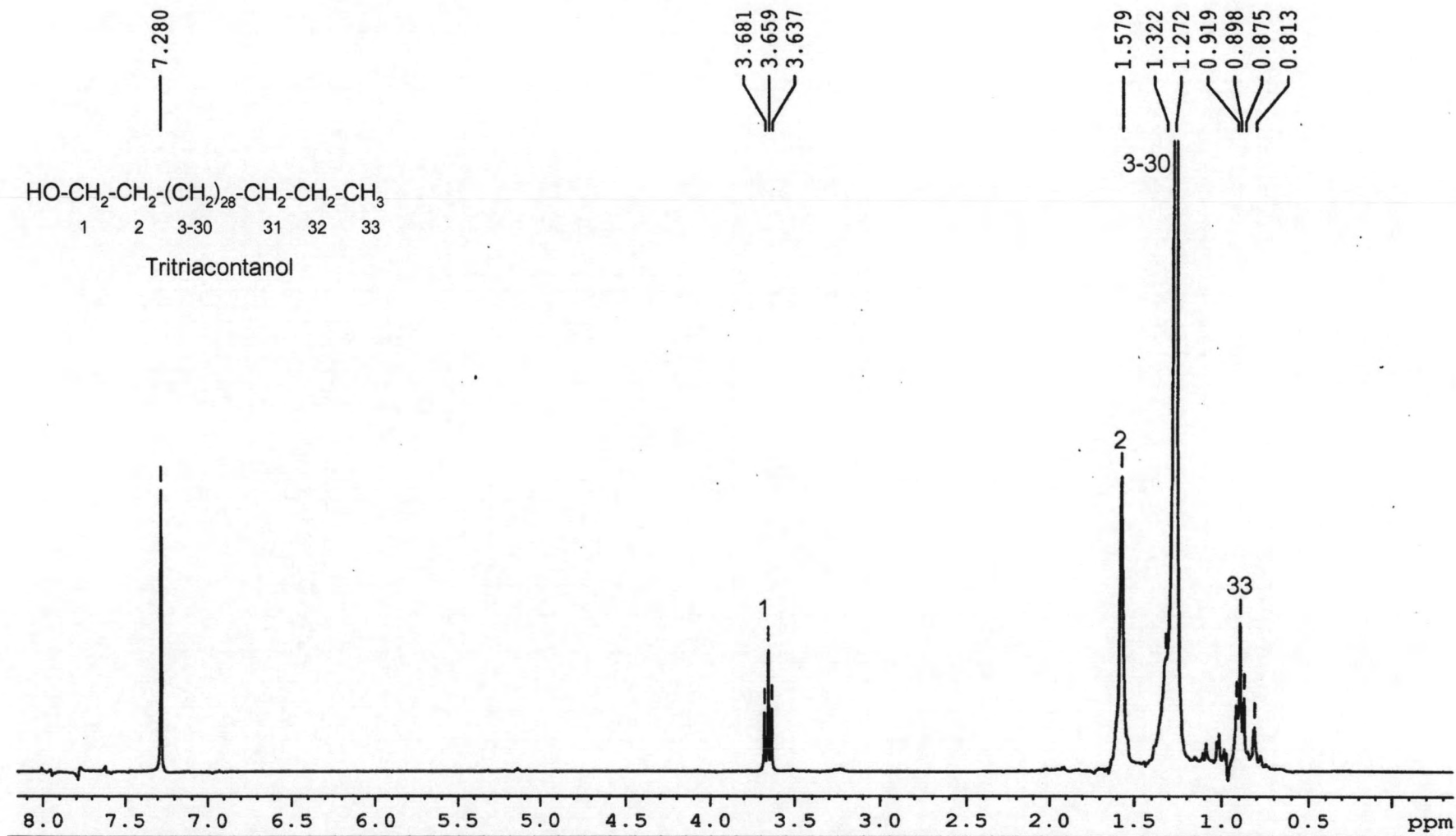


Figure A  $^1\text{H-NMR}$  (300 MHz) of SWF1 in deuterated chloroform

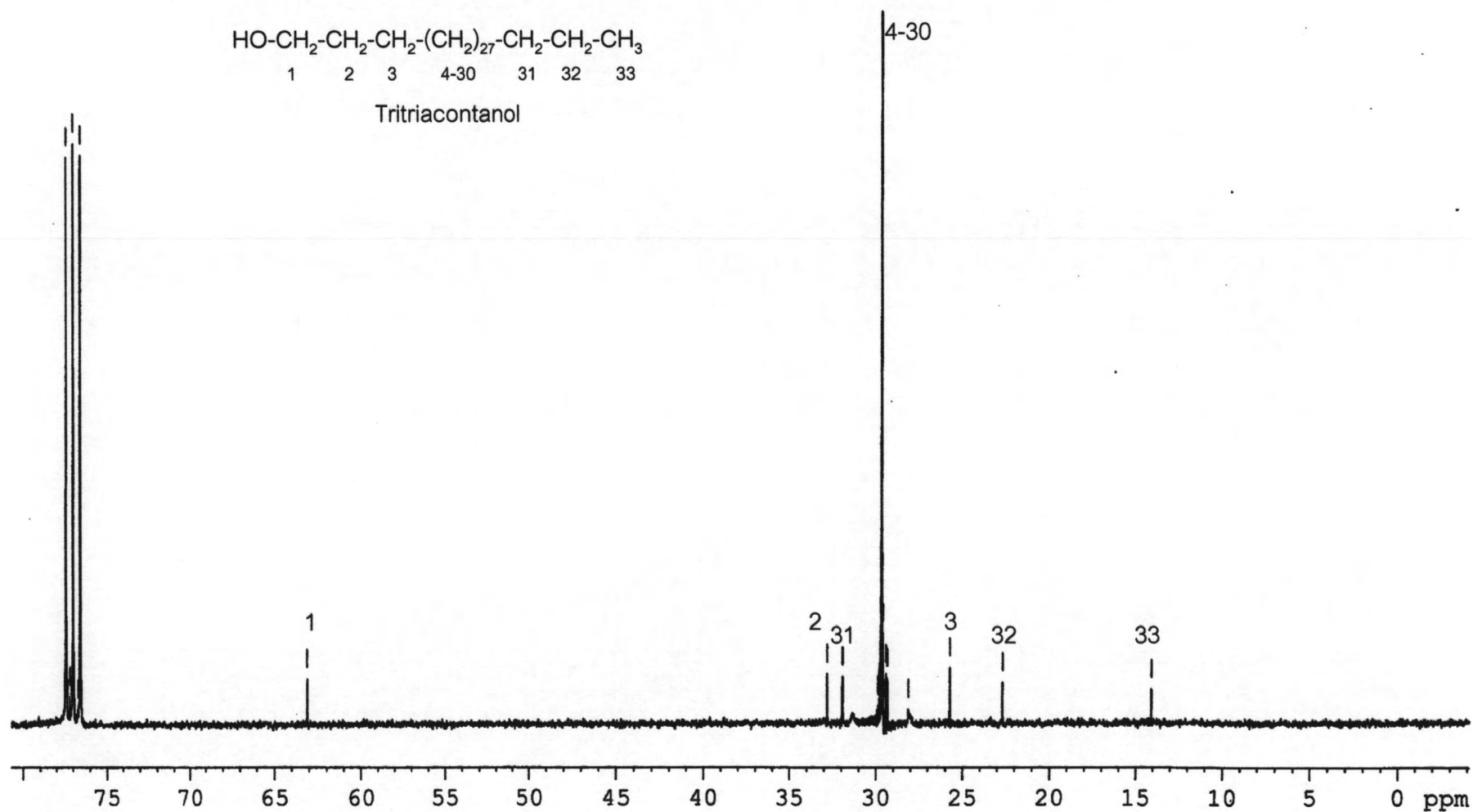


Figure B  $^{13}\text{C}$ -NMR (75 MHz) of SWF1 in deuterated chloroform

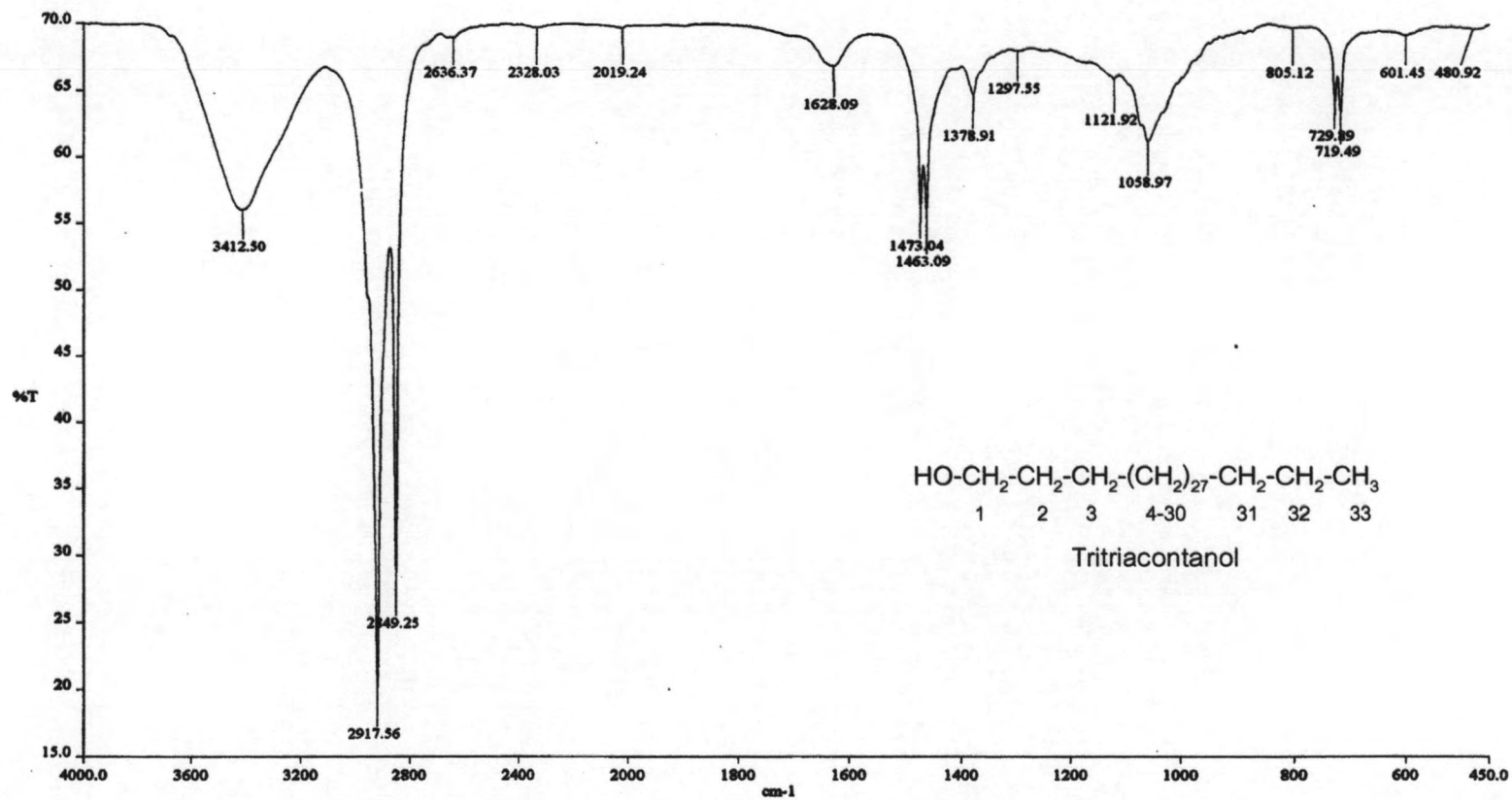


Figure C IR spectrum of SWF1 (KBr disc)

C:\Xcalibur\data\EI data\swf3 9/9/2552 10:26:14  
DIP PROBE:Initial time30C,30sec:Ramp Rate20C/m:Temp350C:hold30sec  
swf3 #354 RT: 4.65 AV: 1 NL: 7.06E3  
T: + c Full ms [ 50.00-1000.00]

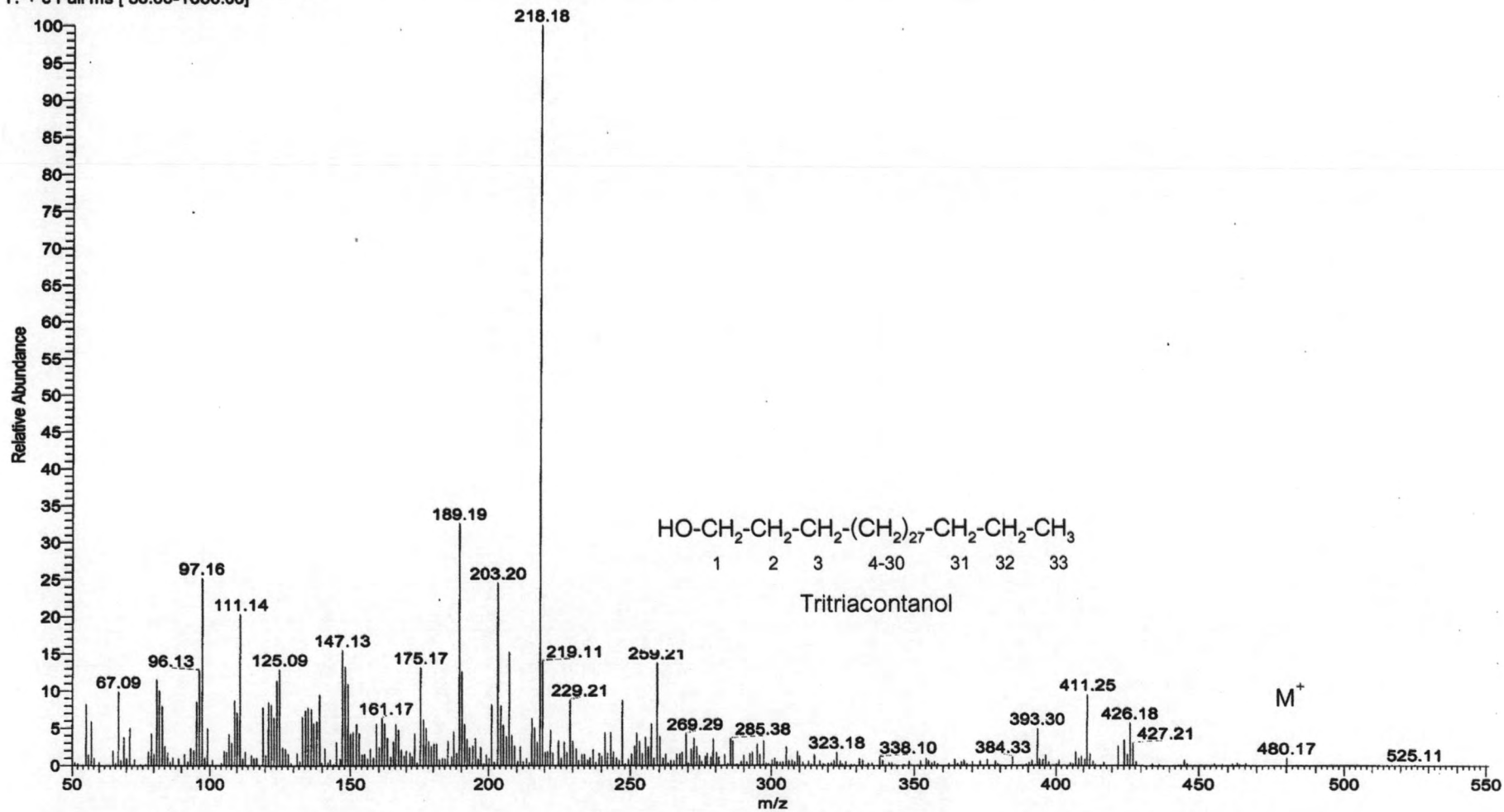


Figure D EIMS spectrum of SWF1

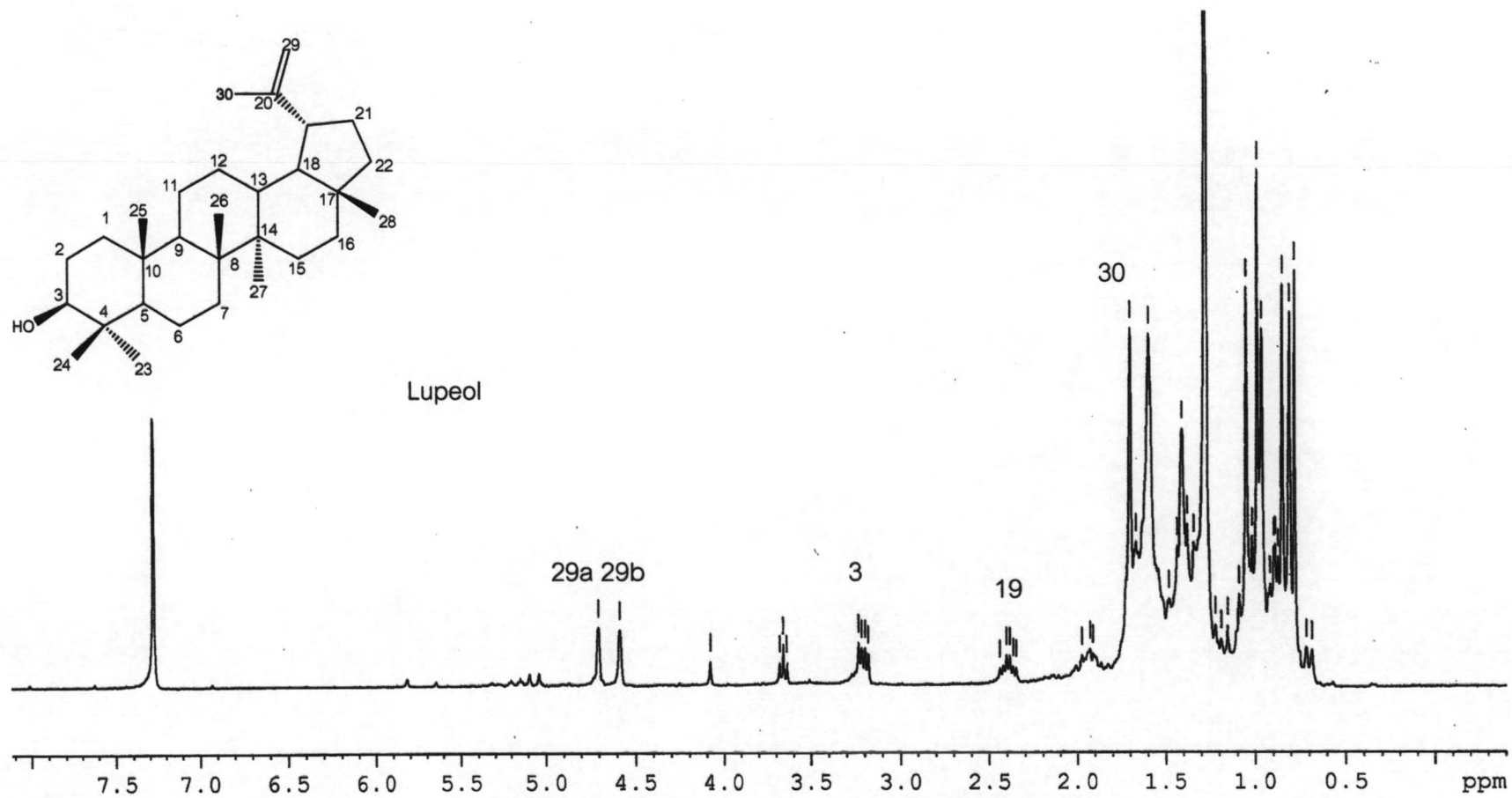


Figure E  $^1\text{H-NMR}$  (300 MHz) of SWF2 in deuterated chloroform

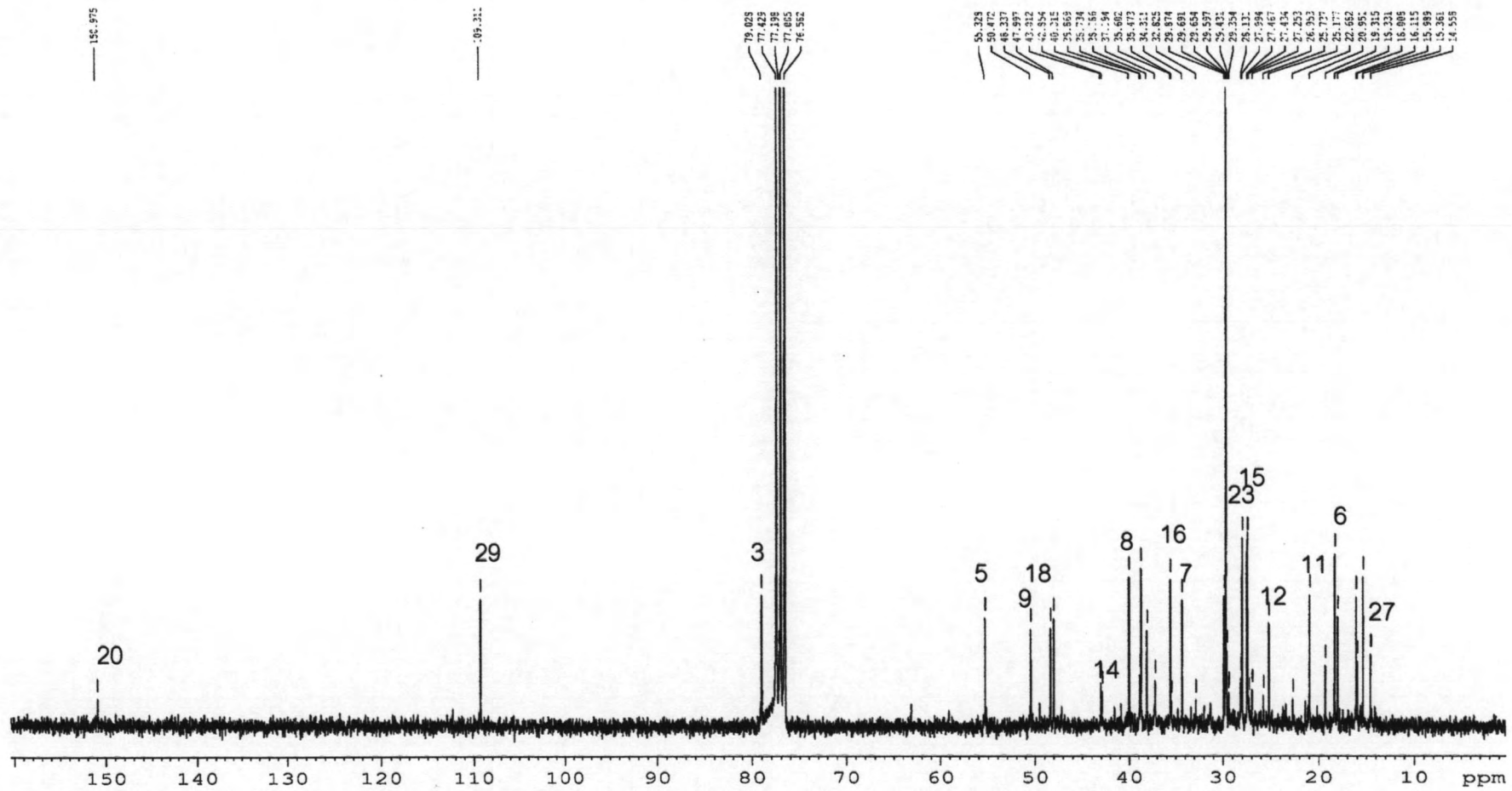


Figure F  $^{13}\text{C}$ -NMR (75 MHz) of SWF2 in deuterated chloroform



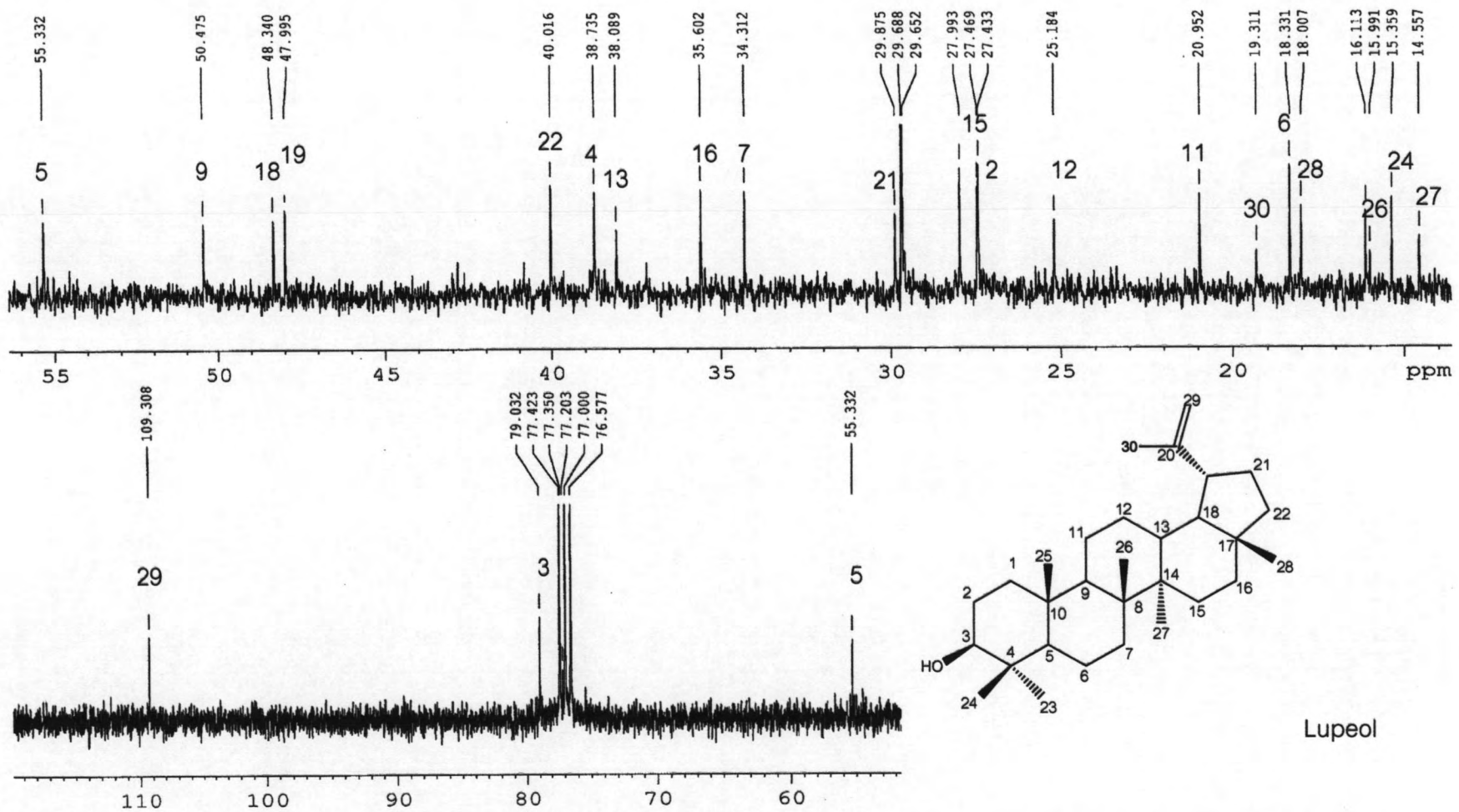


Figure G  $^{13}\text{C}$ -NMR (75 MHz) of SWF2 in deuterated chloroform (expand)

C:\Xcambur...swf1\_090611113532  
DIP:Probe\_El:temp30-350,rate20/min,hold30sec  
swf1\_090611113532 #417 RT: 4.77 AV: 1 NL: 2.16E4  
T: + c Full ms [ 50.00-900.00]

11/6/2552 11:35:32

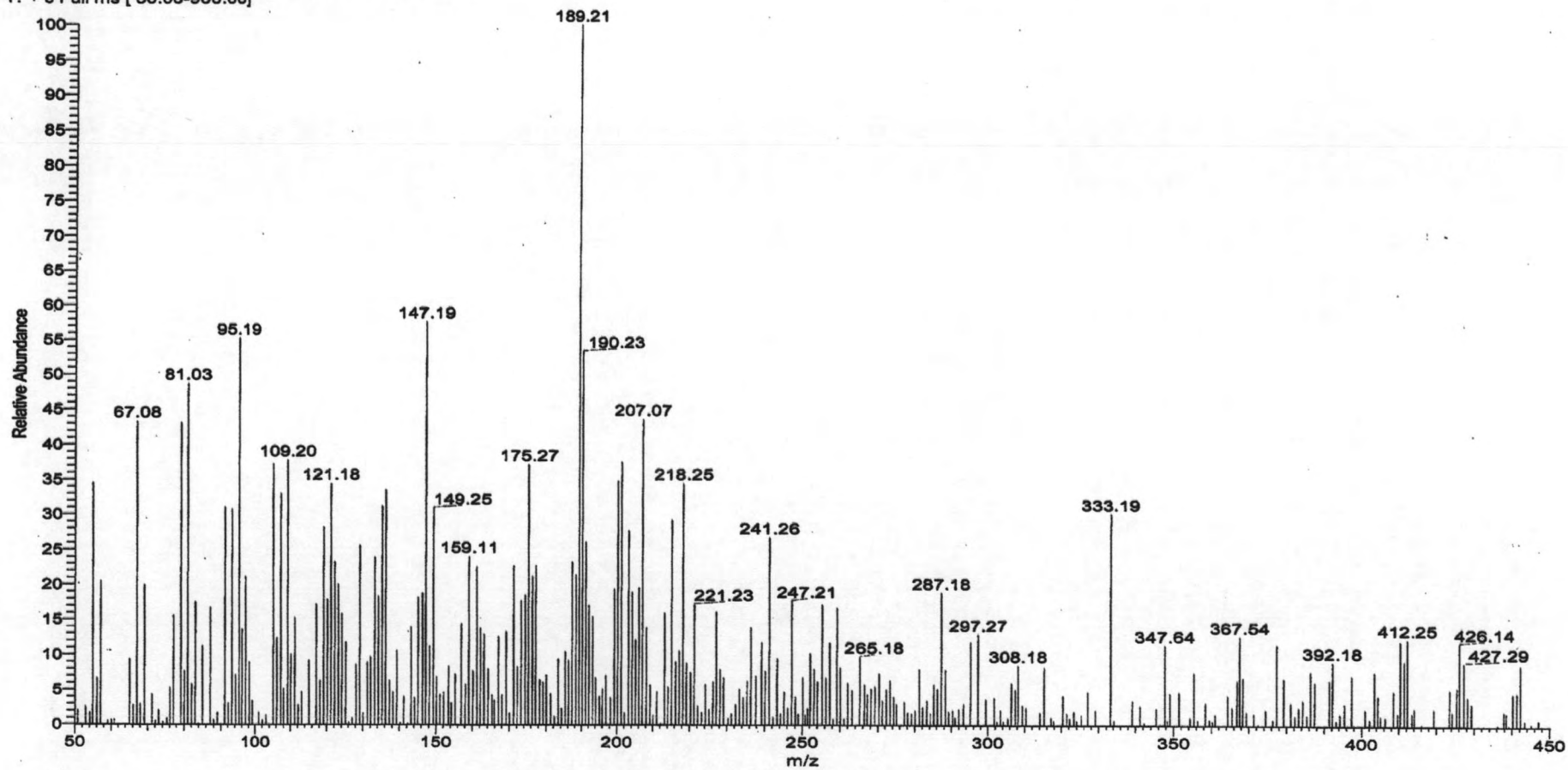


Figure H EIMS spectrum of SWF2

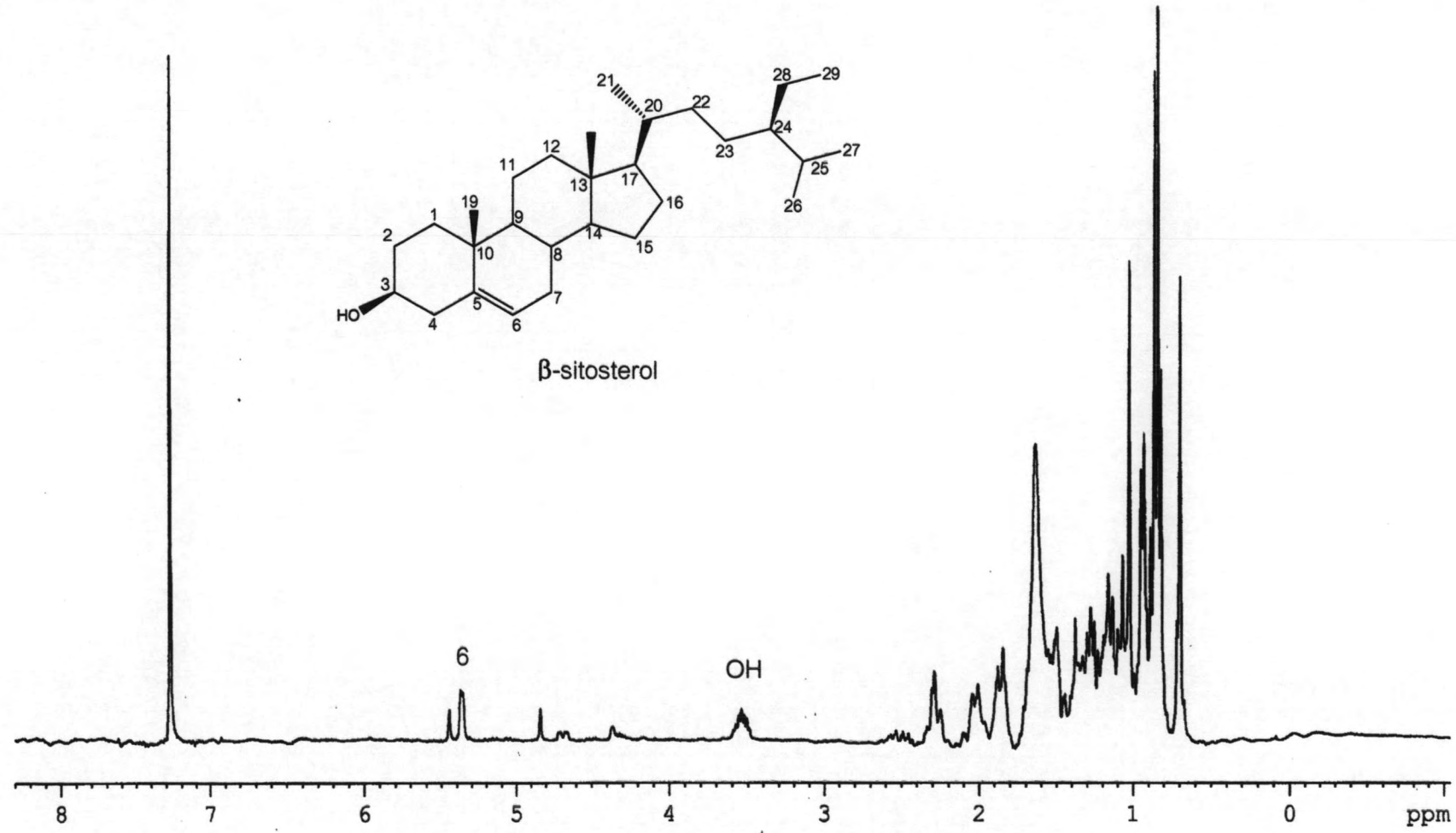
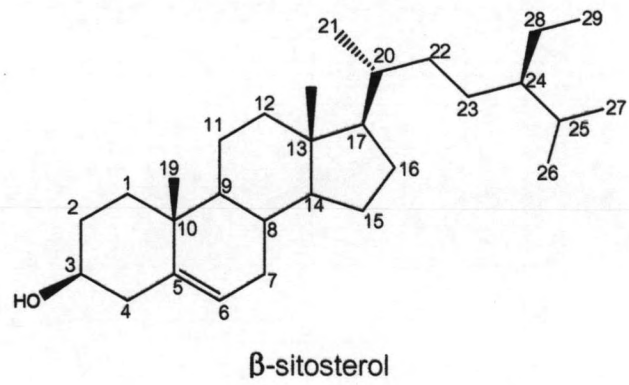


Figure 1 <sup>1</sup>H-NMR (300 MHz) of SWF3 in deuterated chloroform

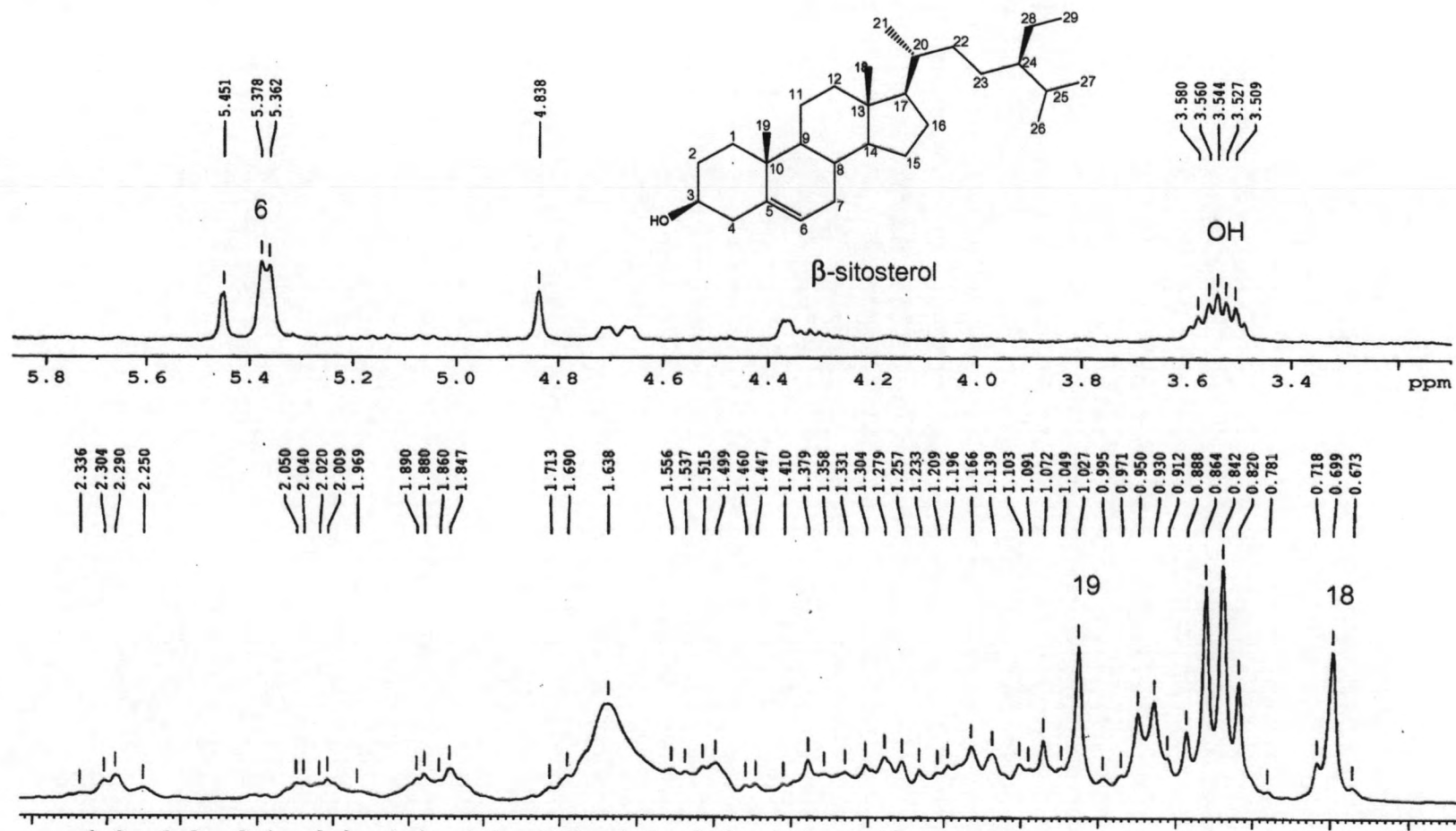


Figure J  $^1\text{H-NMR}$  (300 MHz) of SWF3 in deuterated chloroform (expanded)

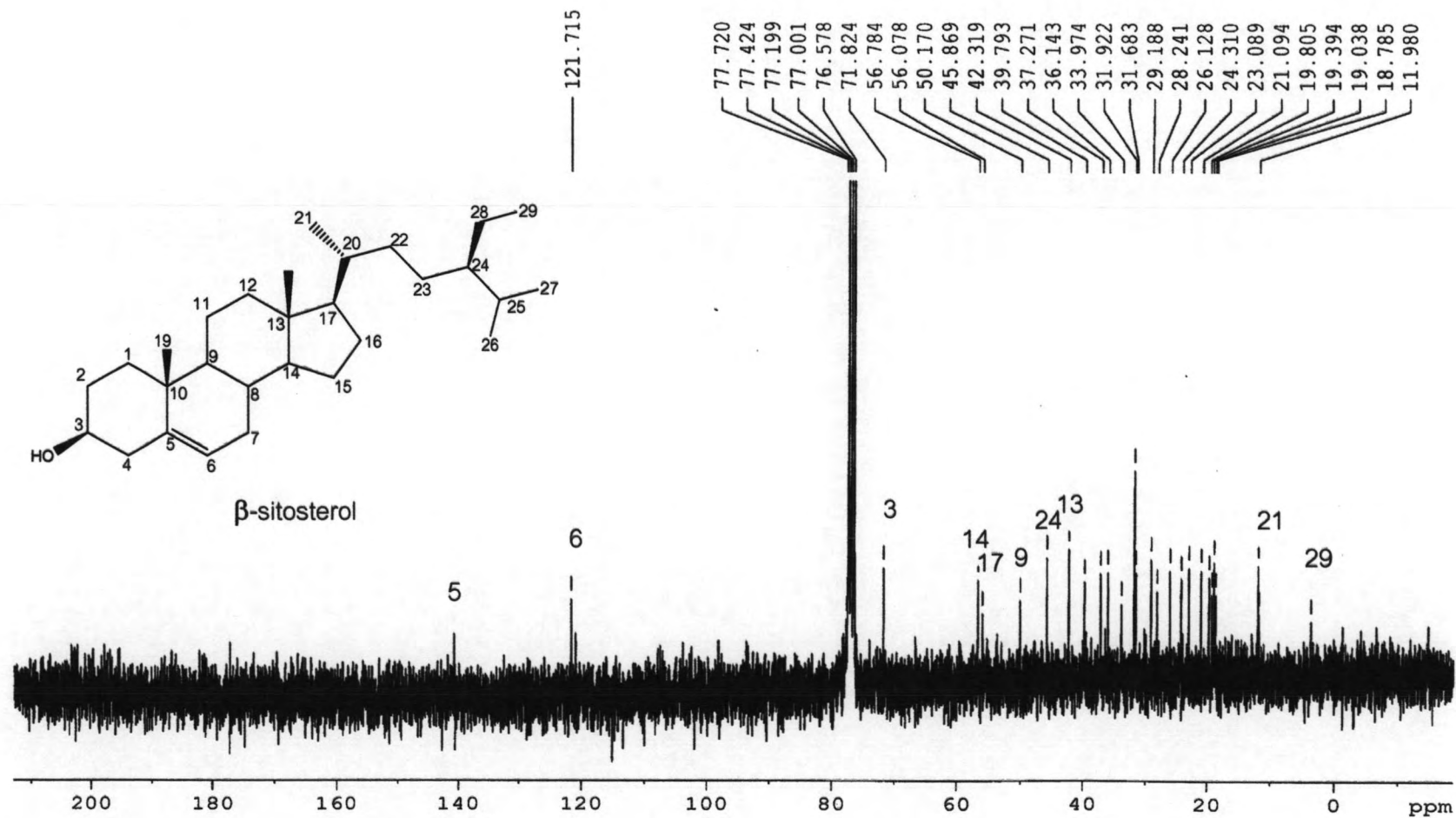


Figure K  $^{13}\text{C}$ -NMR (75 MHz) of SWF3 in deuterated chloroform

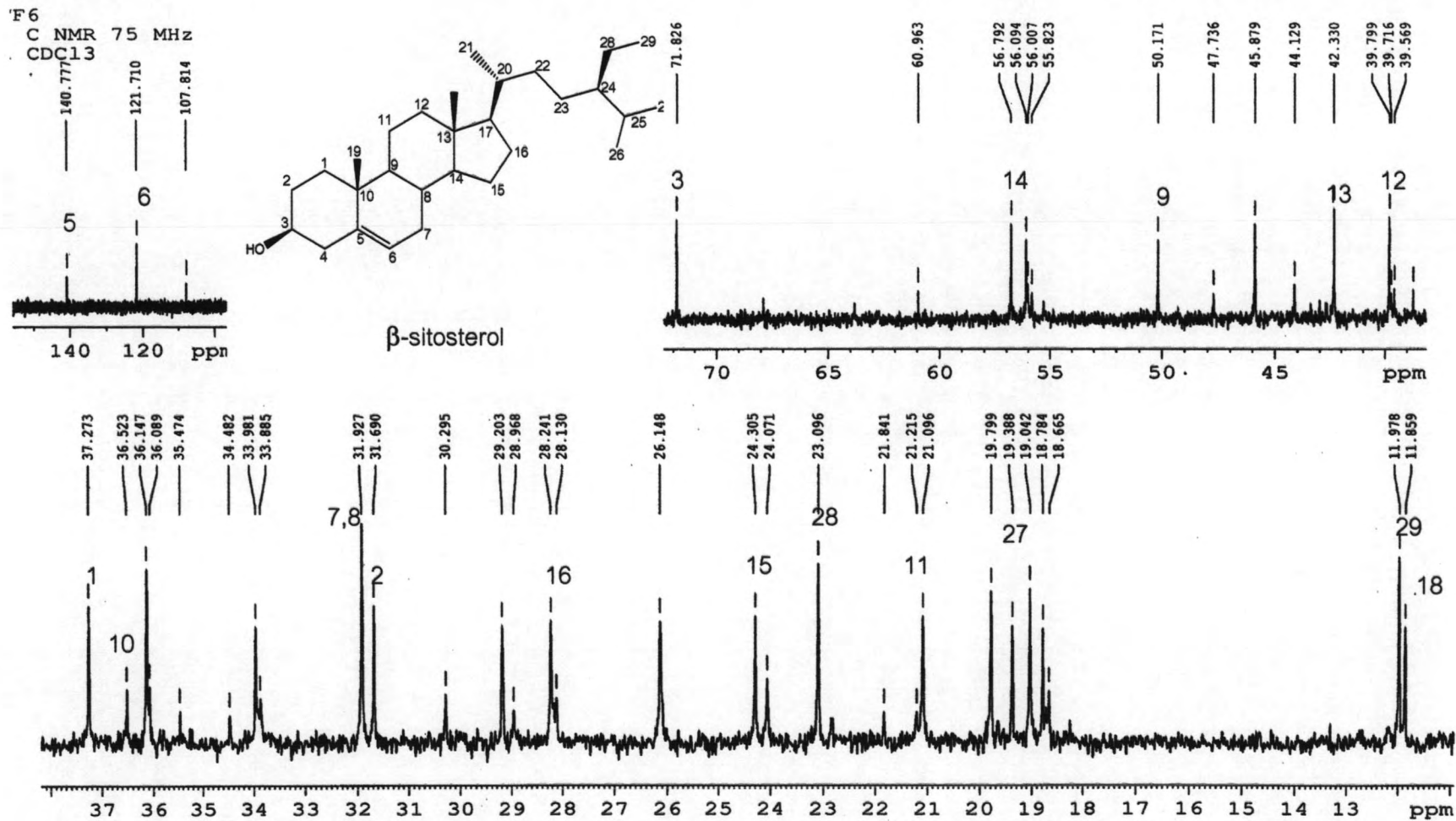


Figure L <sup>13</sup>C-NMR (75 MHz) of SWF3 in deuterated chloroform (expanded)

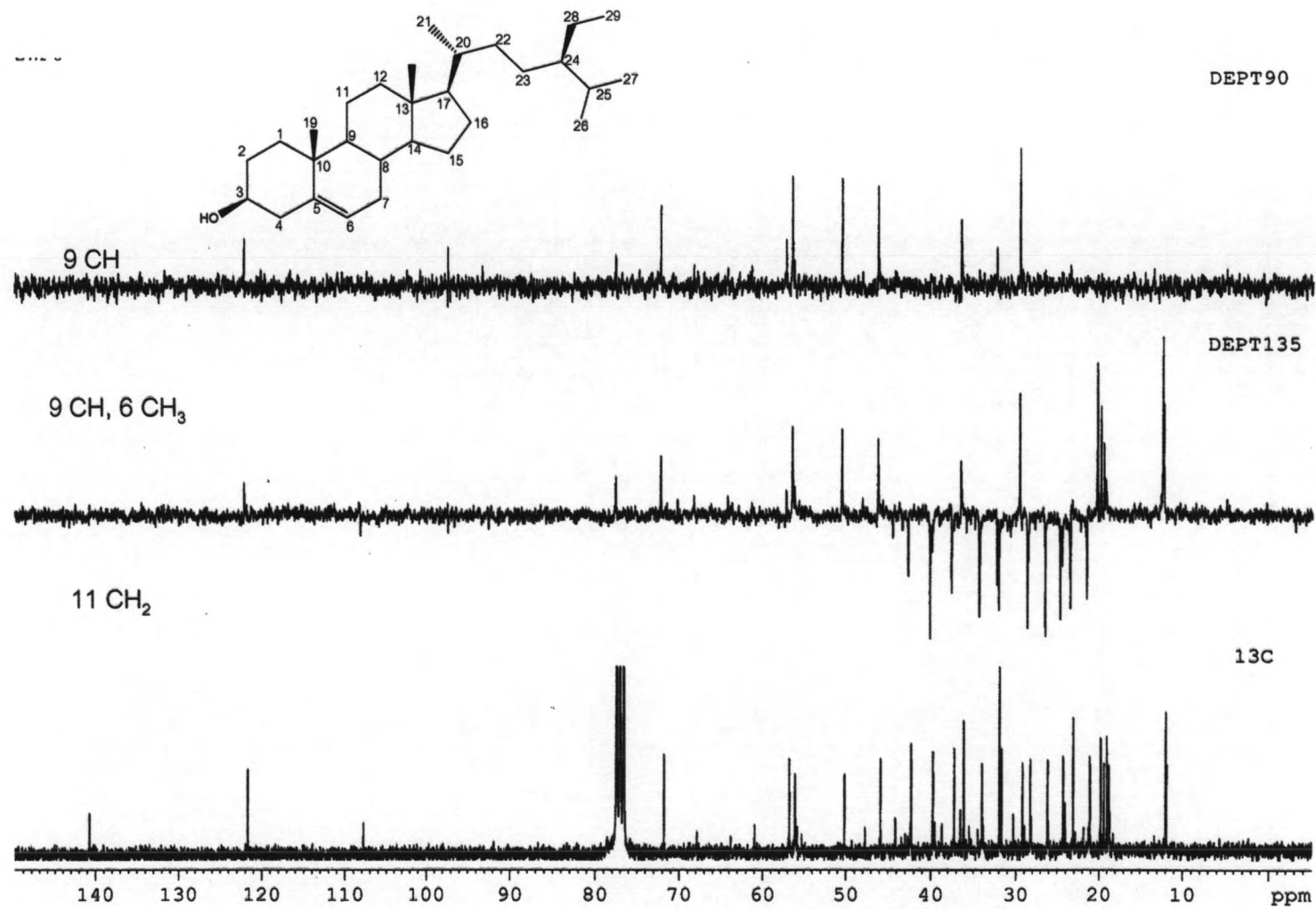


Figure M DEPT spectrum (75 MHz) of SWF3 in deuterated chloroform

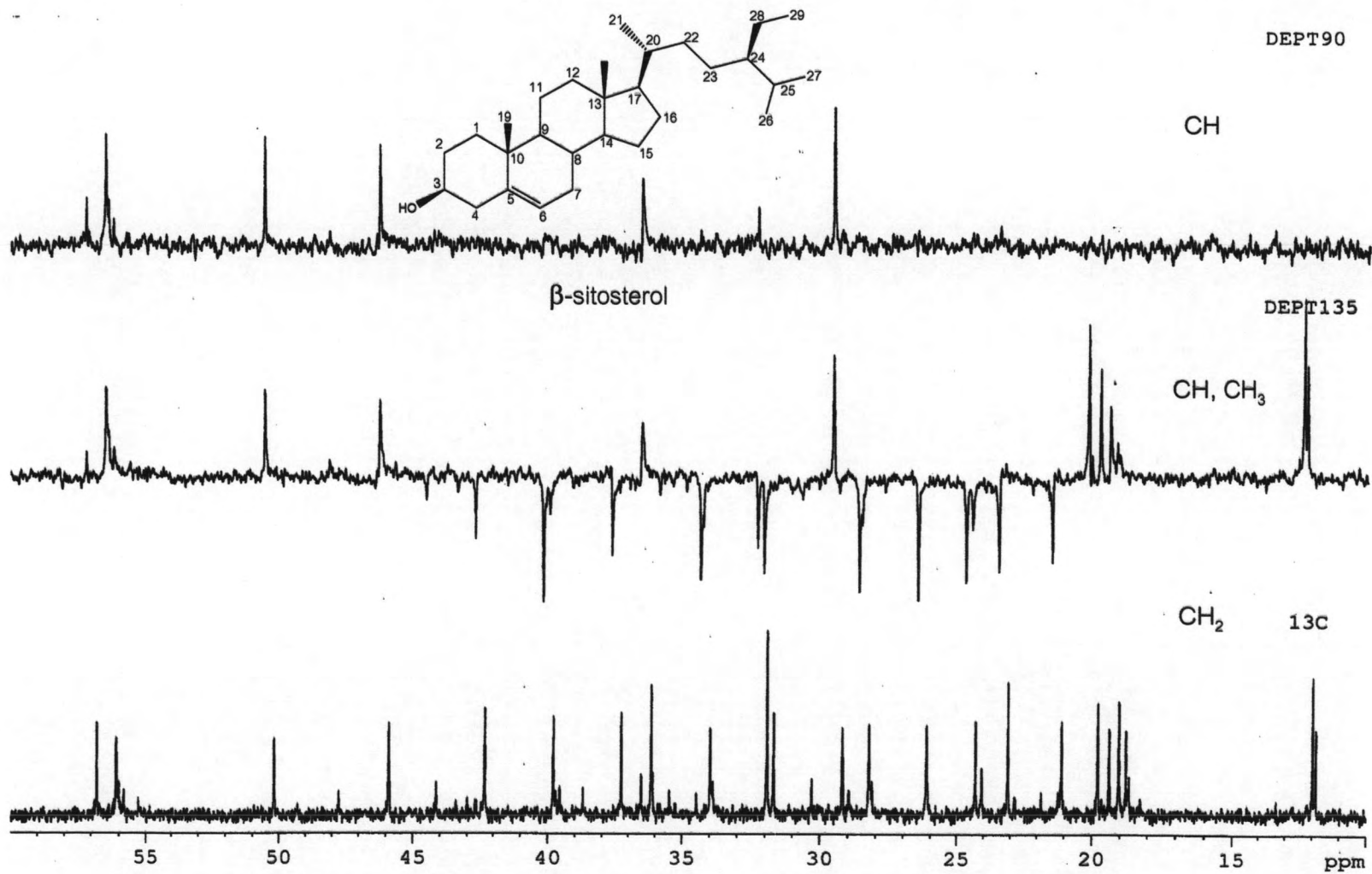


Figure N DEPT spectrum (75 MHz) of SWF3 in deuterated chloroform (expanded)



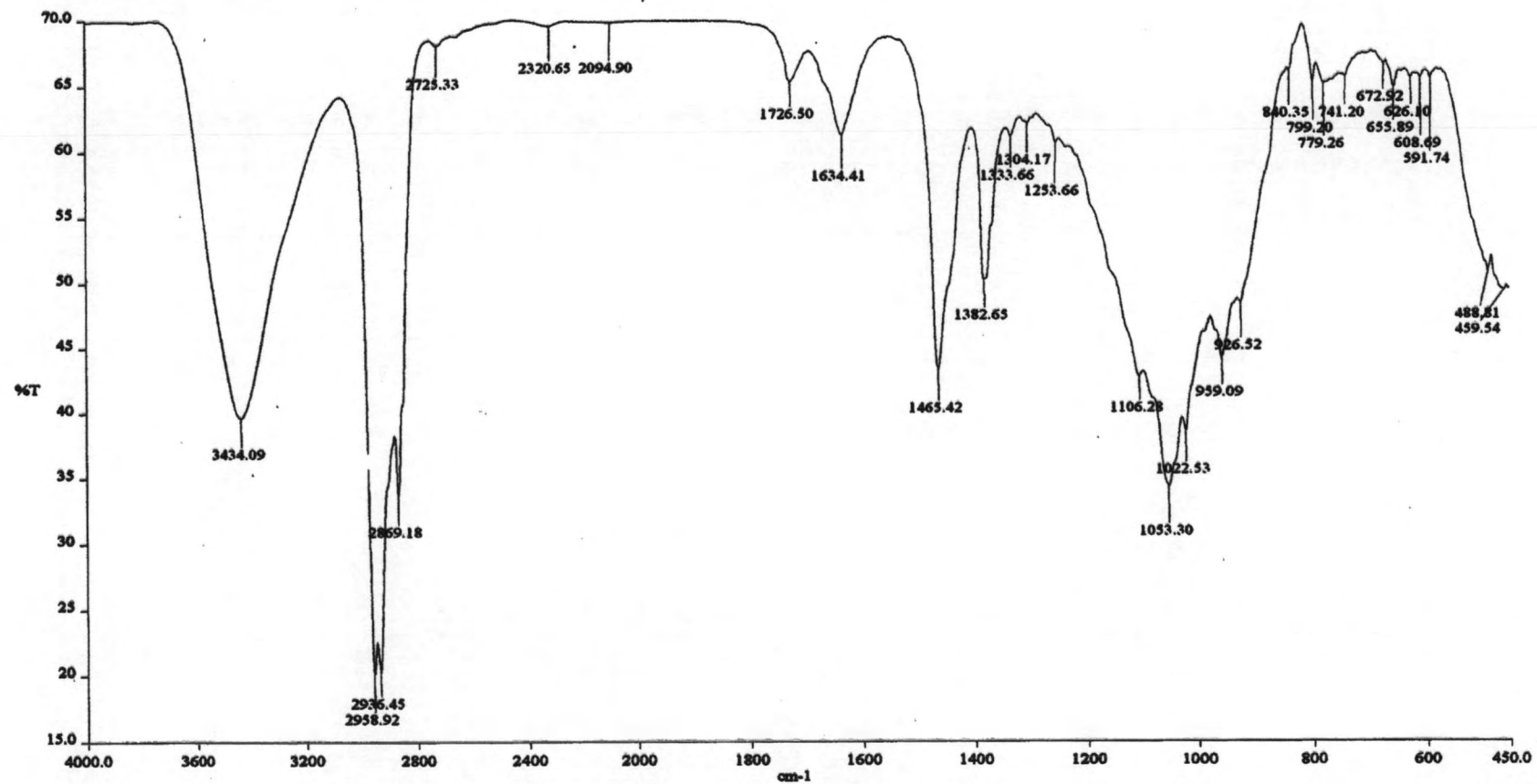


Figure O IR spectrum of SWF3

C:\Xca  
DIP: ~~Press~~ E:temp30-350,rate20/min,hold30sec  
SWF6 #505 RT: 5.90 AV: 1 NL: 1.32E5  
T: + c Full ms [ 50.00-900.00]

28/9/2552 15:25:14

SWF6

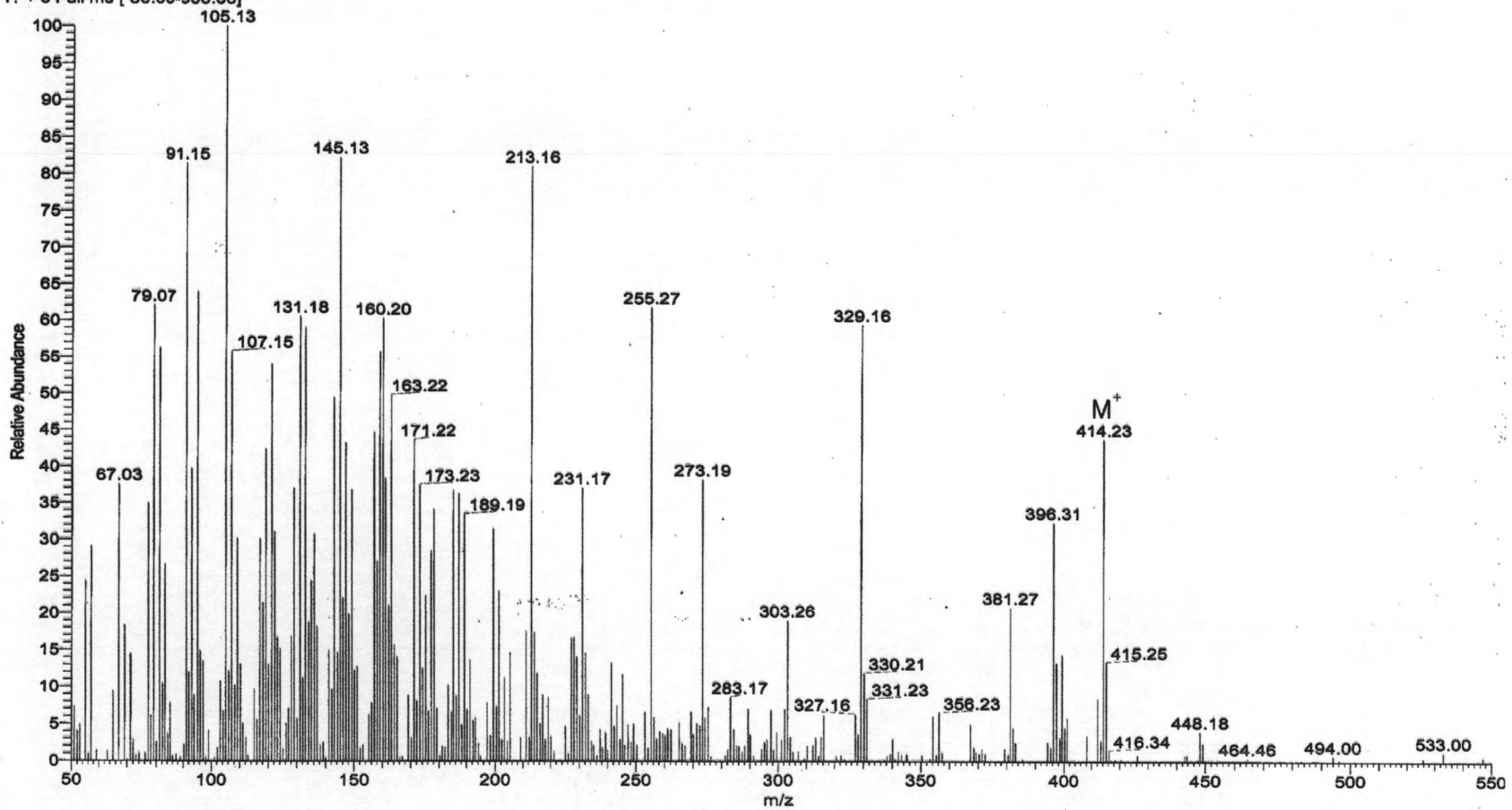


Figure P EIMS spectrum of SWF3

## VITA

Miss Chanida Somkhanngoen was born on May 14, 1982 in Bangkok, Thailand. She received her Bachelor's degree of Science in Pharmacy in 2005 from the Faculty of Pharmaceutical Sciences, Chulalongkorn University, Thailand.

Oral Presentation

Somkhanngoen, C. and Sukrong, S. Free Radical Scavenging and Antityrosinase Activity of Silkworm Feces Extracts Obtained by Various Solvents. p.629-635 The Proceeding of Graduate Research Conference, September 19-20, 2009. Rajabhat Udon Thani University, Udon Thani.

