Supporting Information

To prenylcoumarins in one or two steps by microwave promoted tandem Claisen rearrangement / Wittig olefination / cyclization sequence

*Christiane Schultze and Bernd Schmidt**

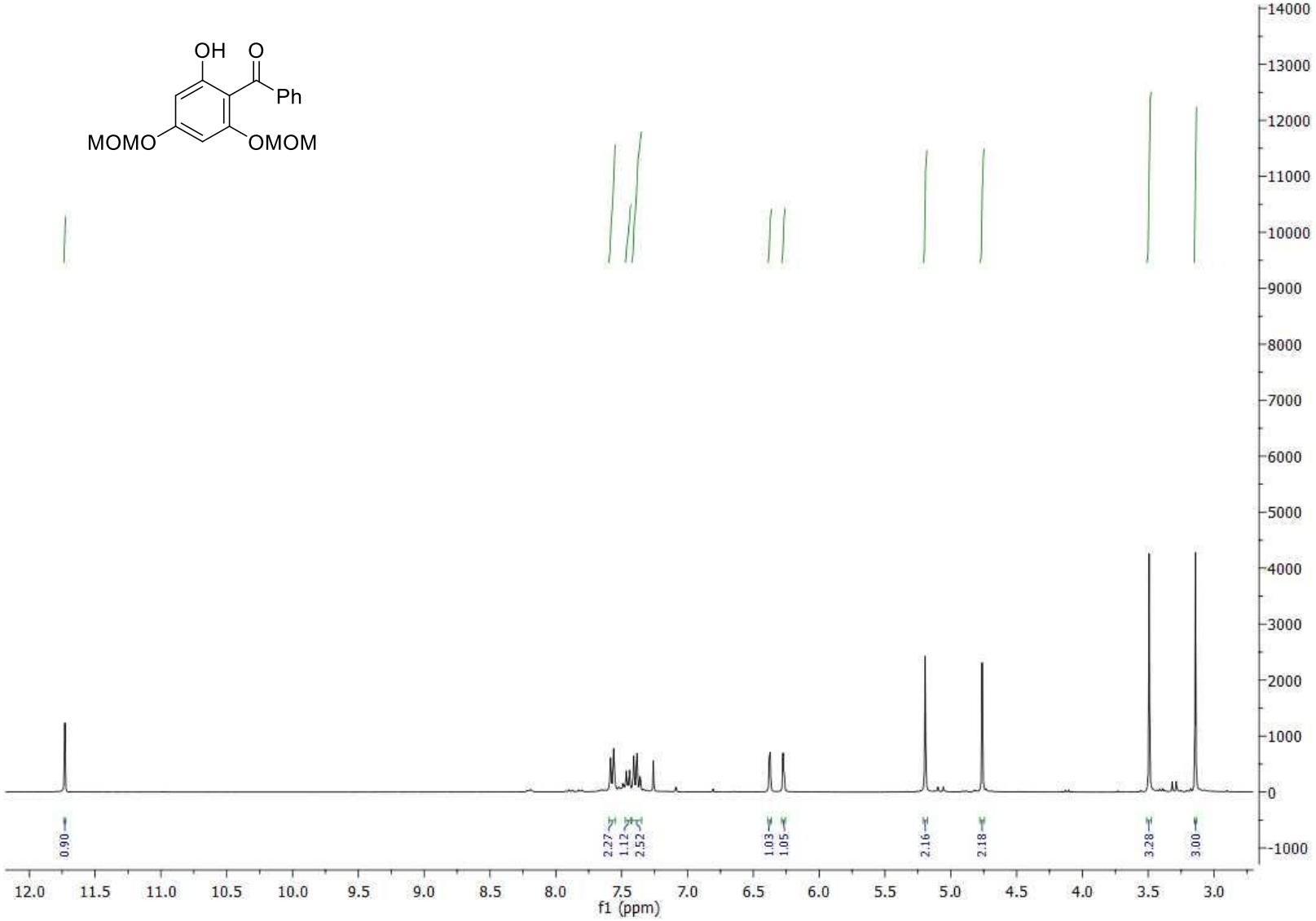
Universitaet Potsdam, Institut fuer Chemie (Organische Synthesechemie), Karl-Liebknecht-Strasse 24-25, D-14476 Potsdam-Golm, Germany

bernd.schmidt@uni-potsdam.de

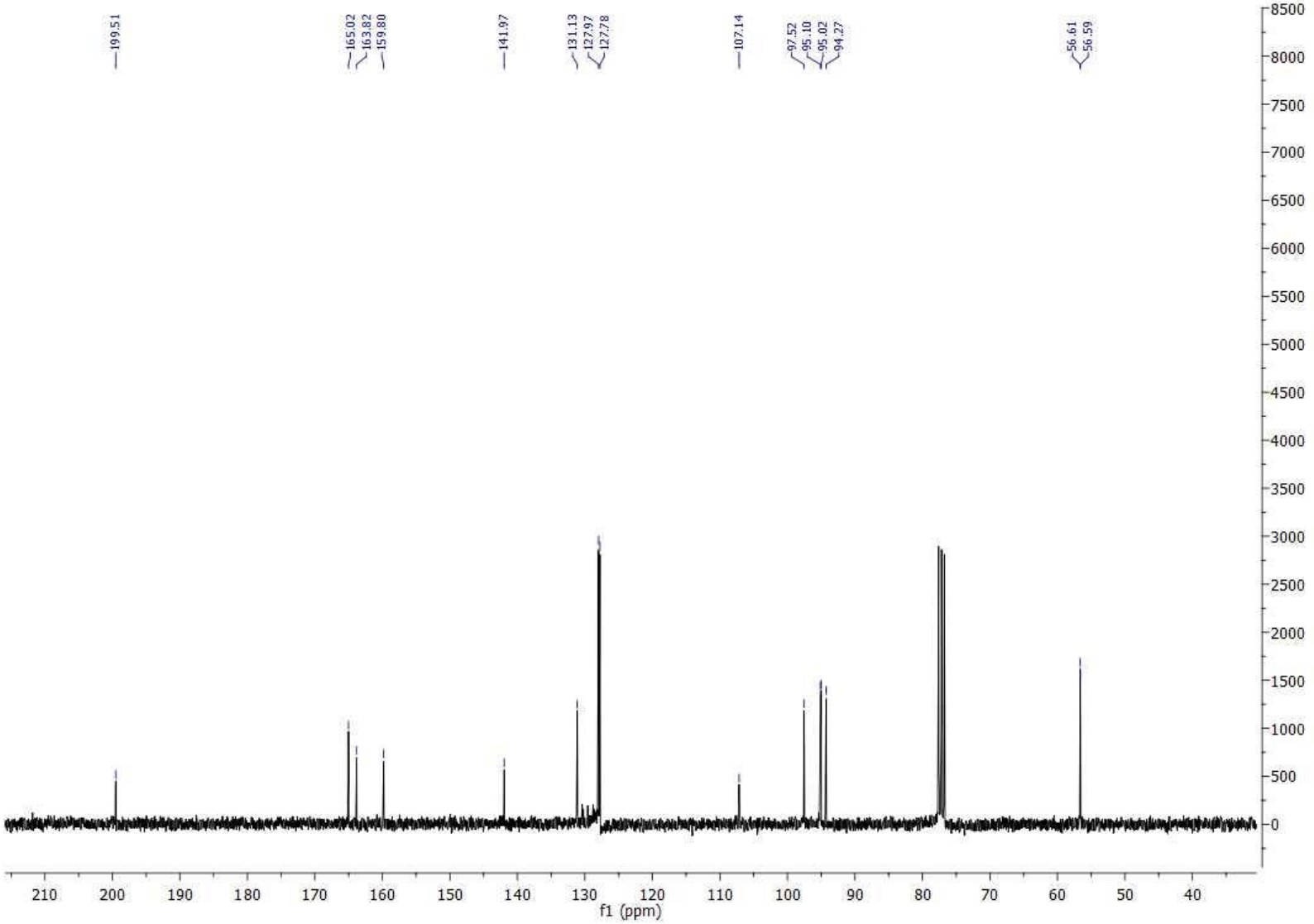
Contents: copies of ^{1}H and ^{13}C-NMR spectra

compound	page	compound	page	compound	page	compound	page
1b	S2	**11h**	S32	**8j**	S62	**12b**	S92
1k	S4	**11j**	S34	**7k**	S64	**12h**	S94
1p	S6	**11k**	S36	**8k**	S66	**12k**	S96
1q	S8	**11l**	S38	**7l**	S68	**12l**	S98
1r	S10	**11o**	S40	**8l**	S70	**12n**	S100
3a	S12	**11p**	S42	**7n**	S72	**12o**	S102
3e	S14	**11q**	S44	**7o**	S74	**12p**	S104
3f	S16	**11r**	S46	**7r**	S76	**12q**	S106
3g	S18	**7a**	S48	**7a'**	S78	**12r**	S108
3i	S20	**7e**	S50	**7b'**	S80	**12o'**	S110
3j	S22	**7f**	S52	**7k'**	S82	**13**	S112
3k	S24	**7g**	S54	**7o'**	S84	**14**	S114
3l	S26	**7h**	S56	**7p'**	S86		
3n	S28	**7i**	S58	**7q'**	S88		
11b	S30	**7j**	S60	**12a**	S90		

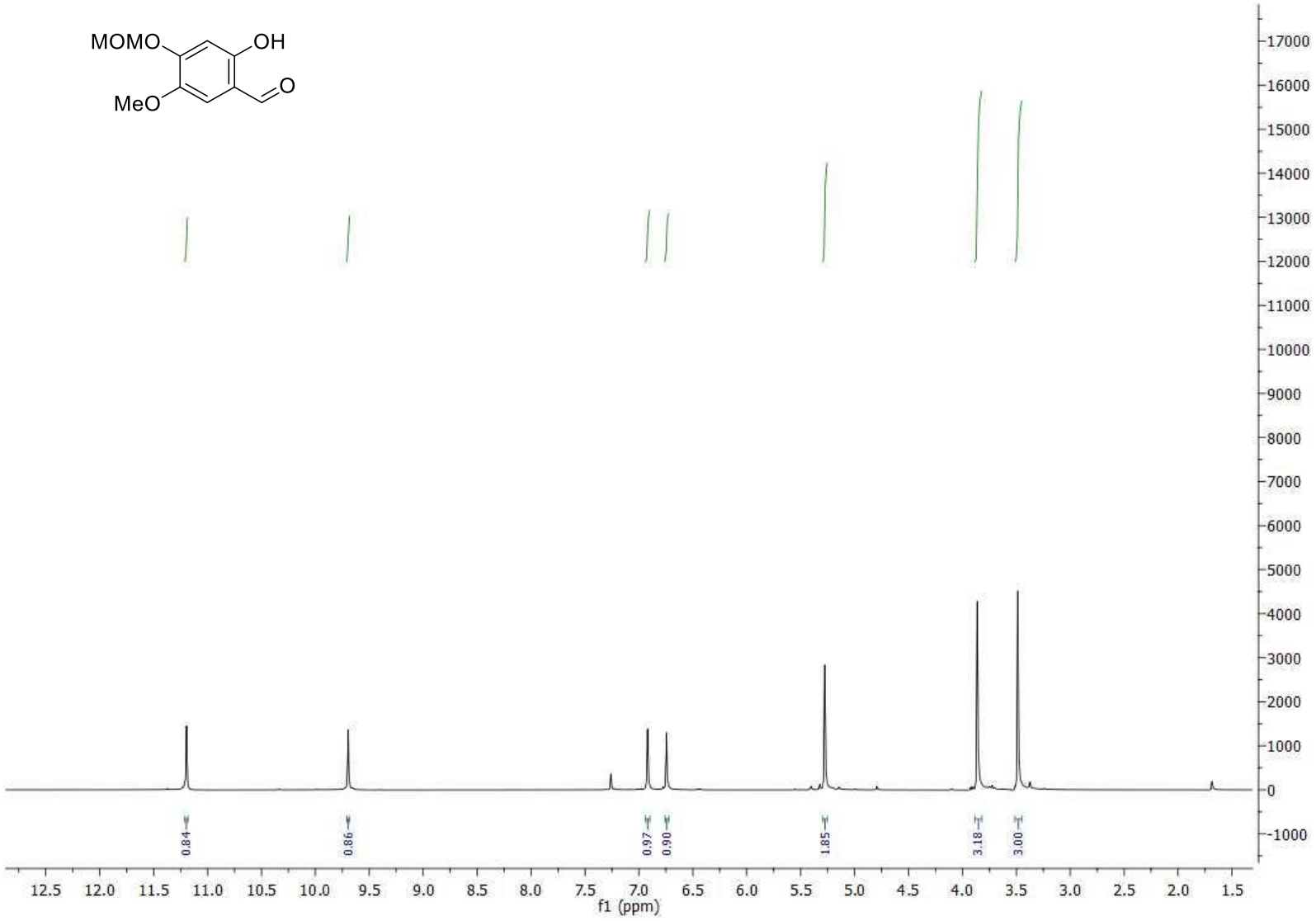
^{1}H NMR (300 MHz, $CDCl_3$) of **1b**



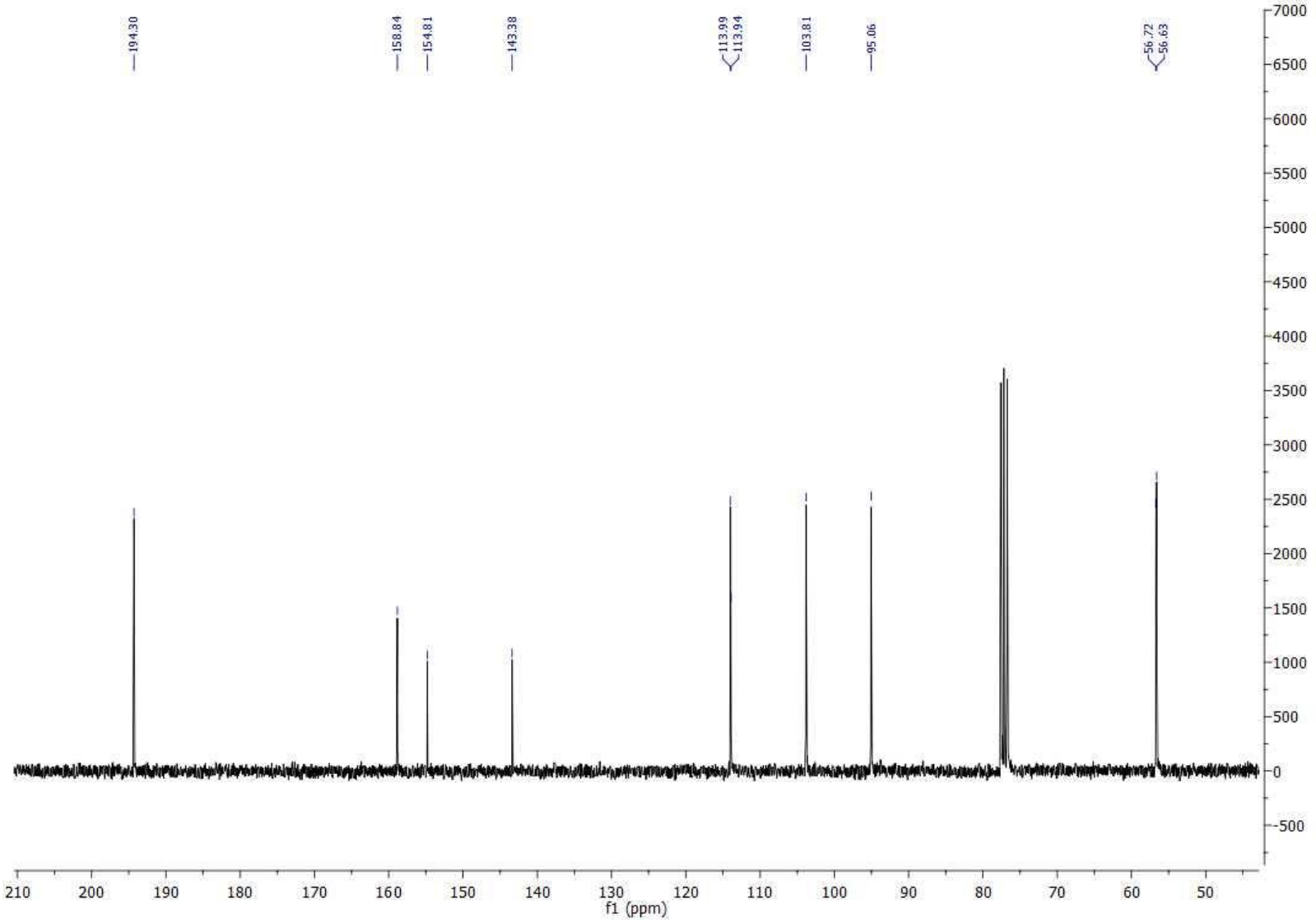
^{13}C NMR (75 MHz, $CDCl_3$) of **1b**



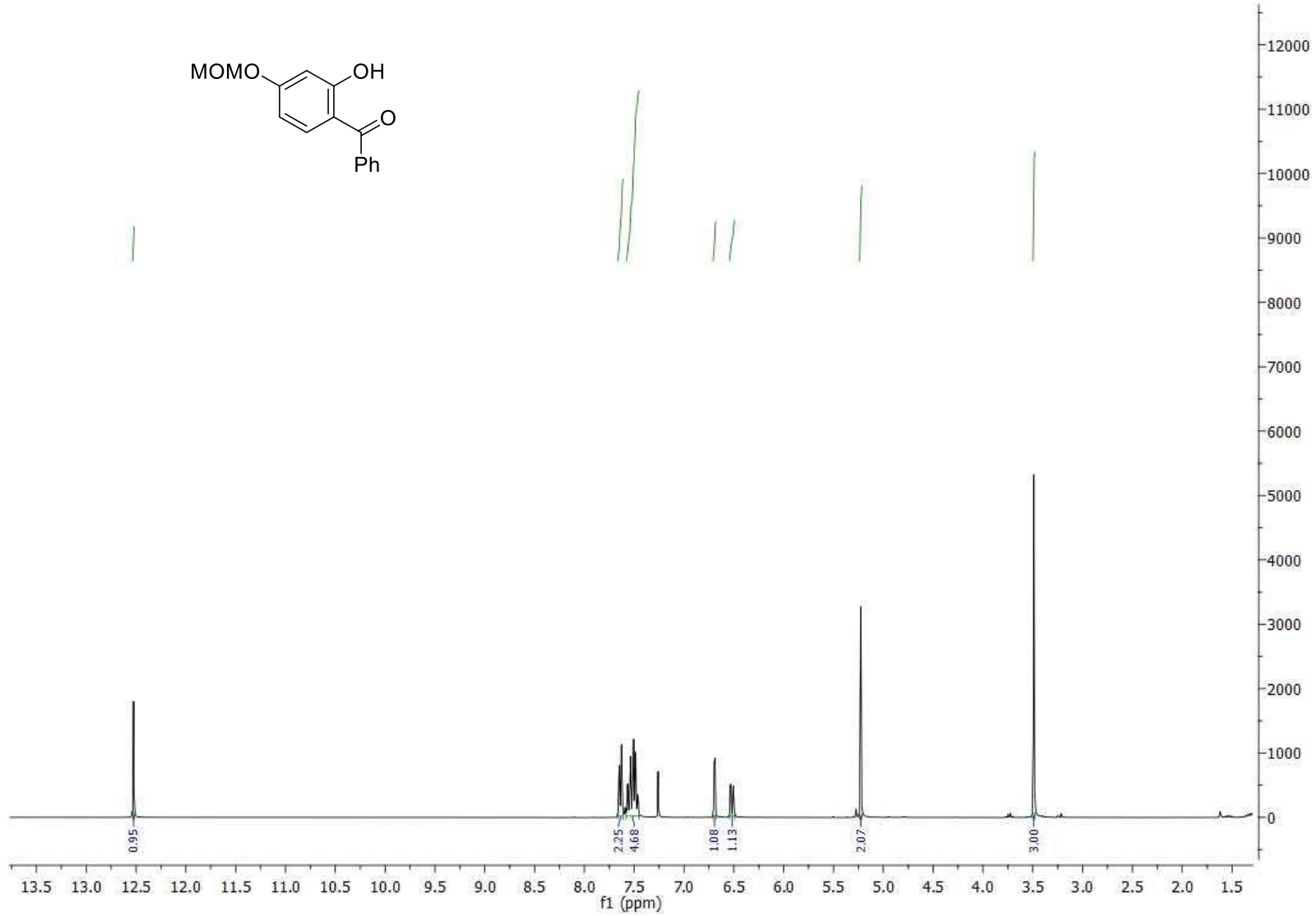
^{1}H NMR (300 MHz, $CDCl_3$) of **1k**



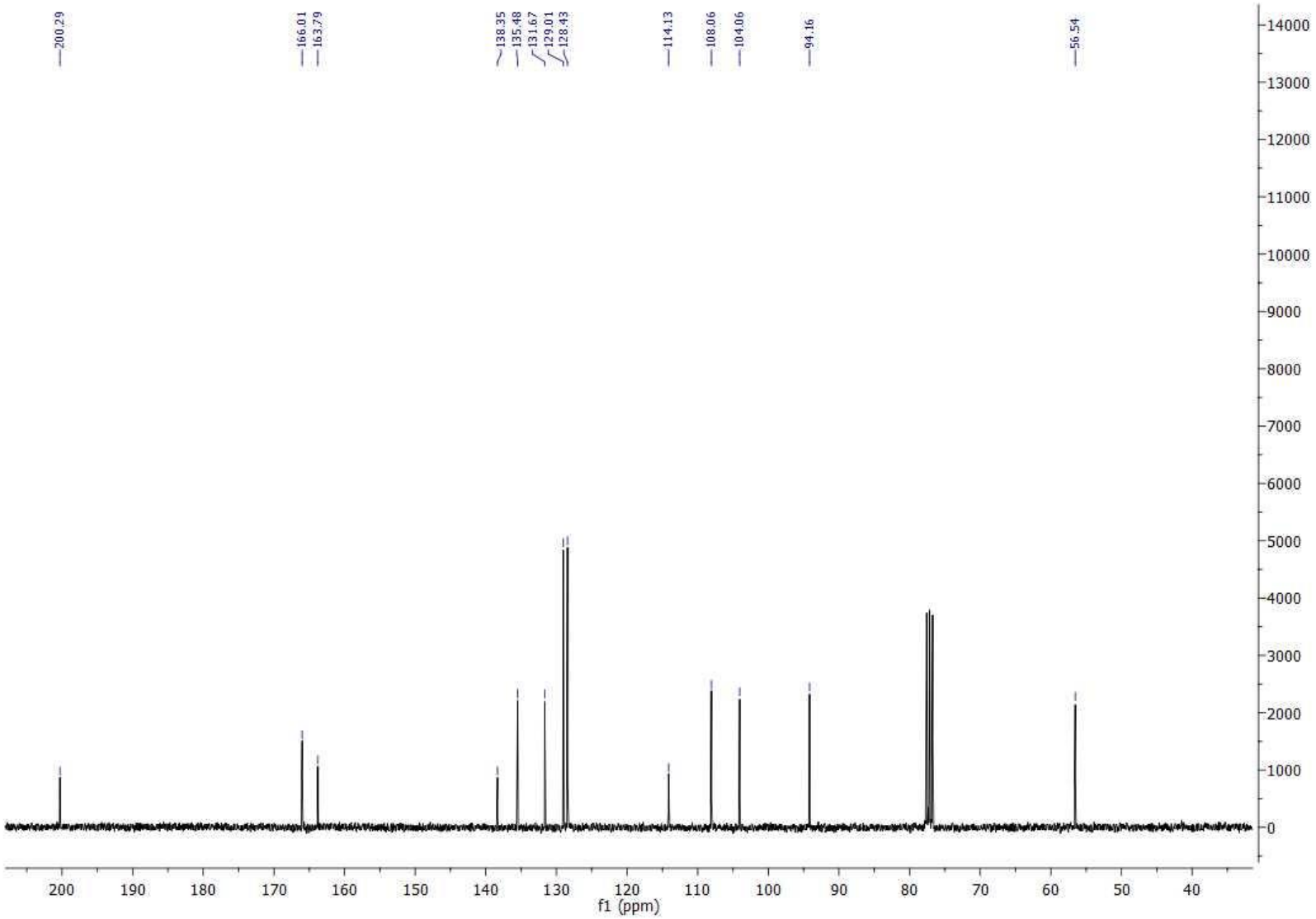
^{13}C NMR (75 MHz, $CDCl_3$) of **1k**



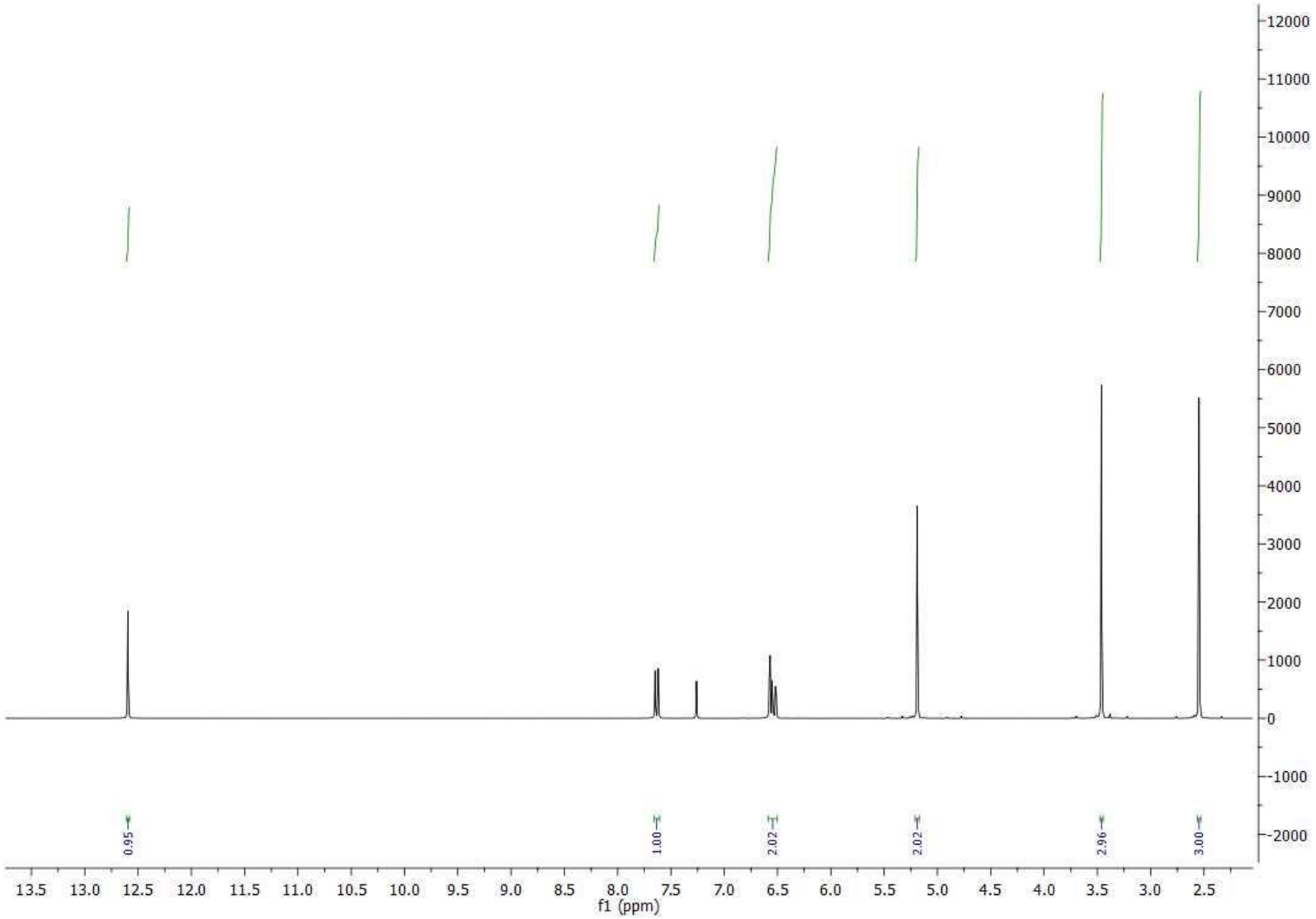
^{1}H NMR (300 MHz, $CDCl_3$) of **1p**



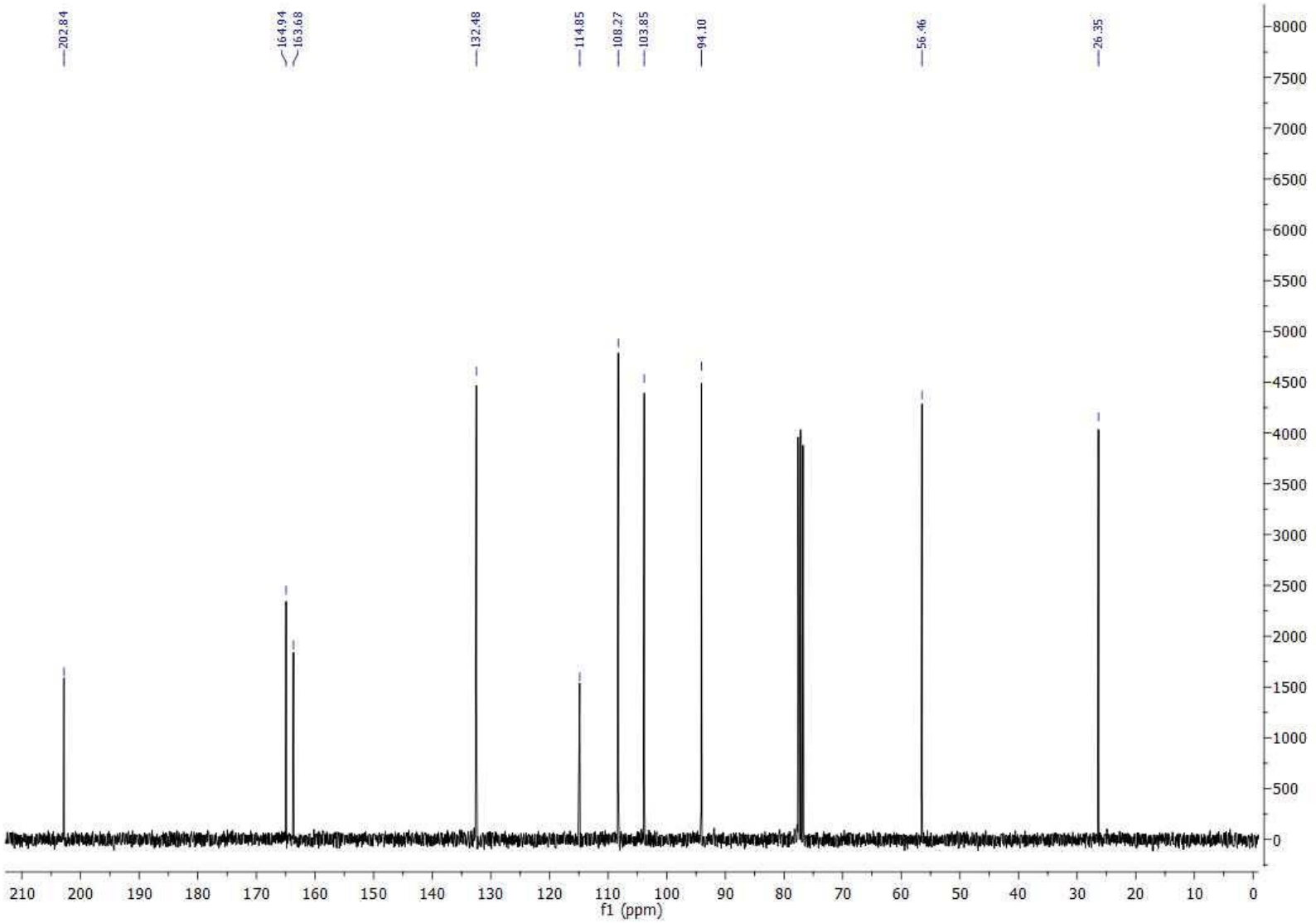
^{13}C NMR (75 MHz, $CDCl_3$) of **1p**



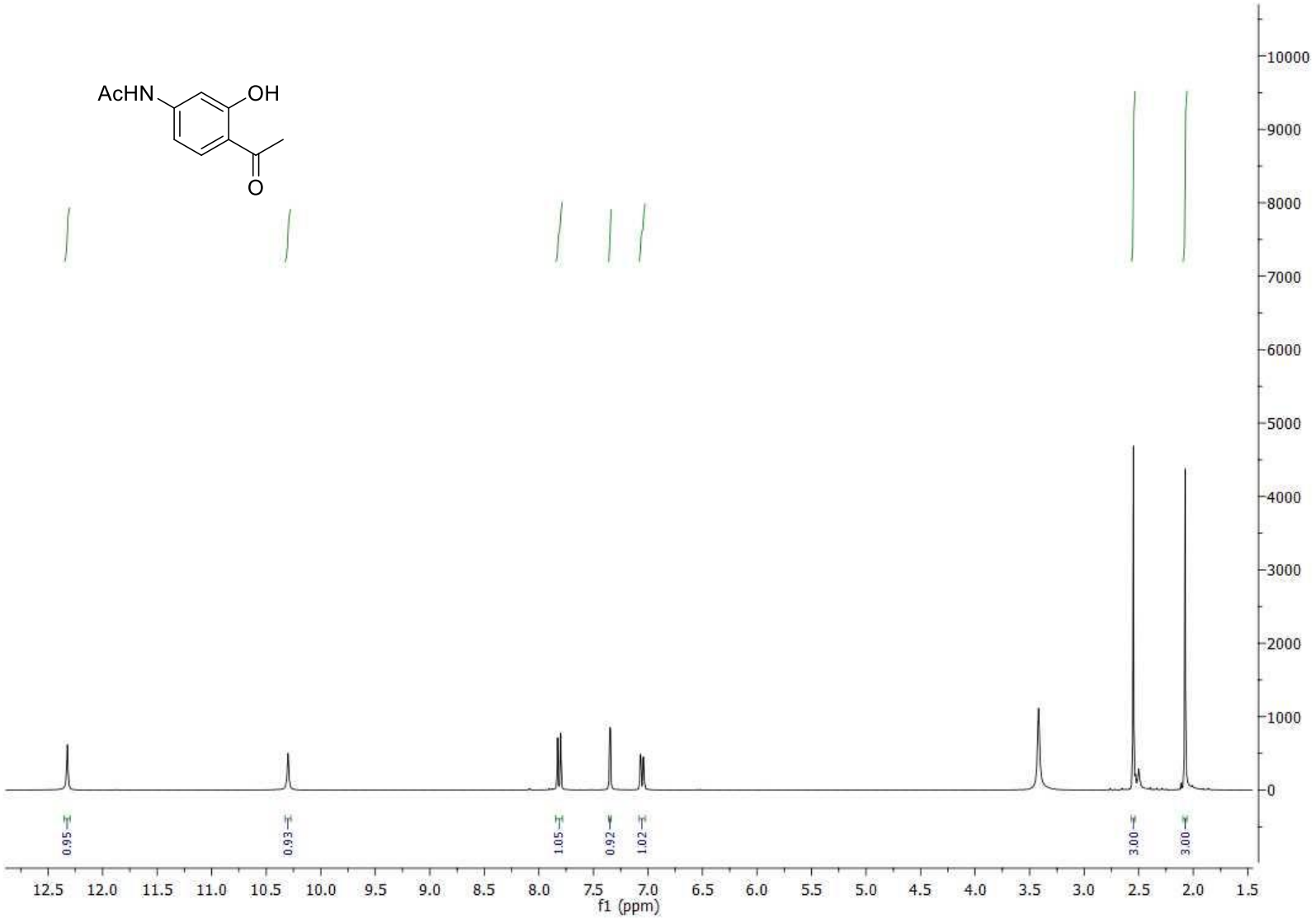
^{1}H NMR (300 MHz, $CDCl_3$) of **1q**



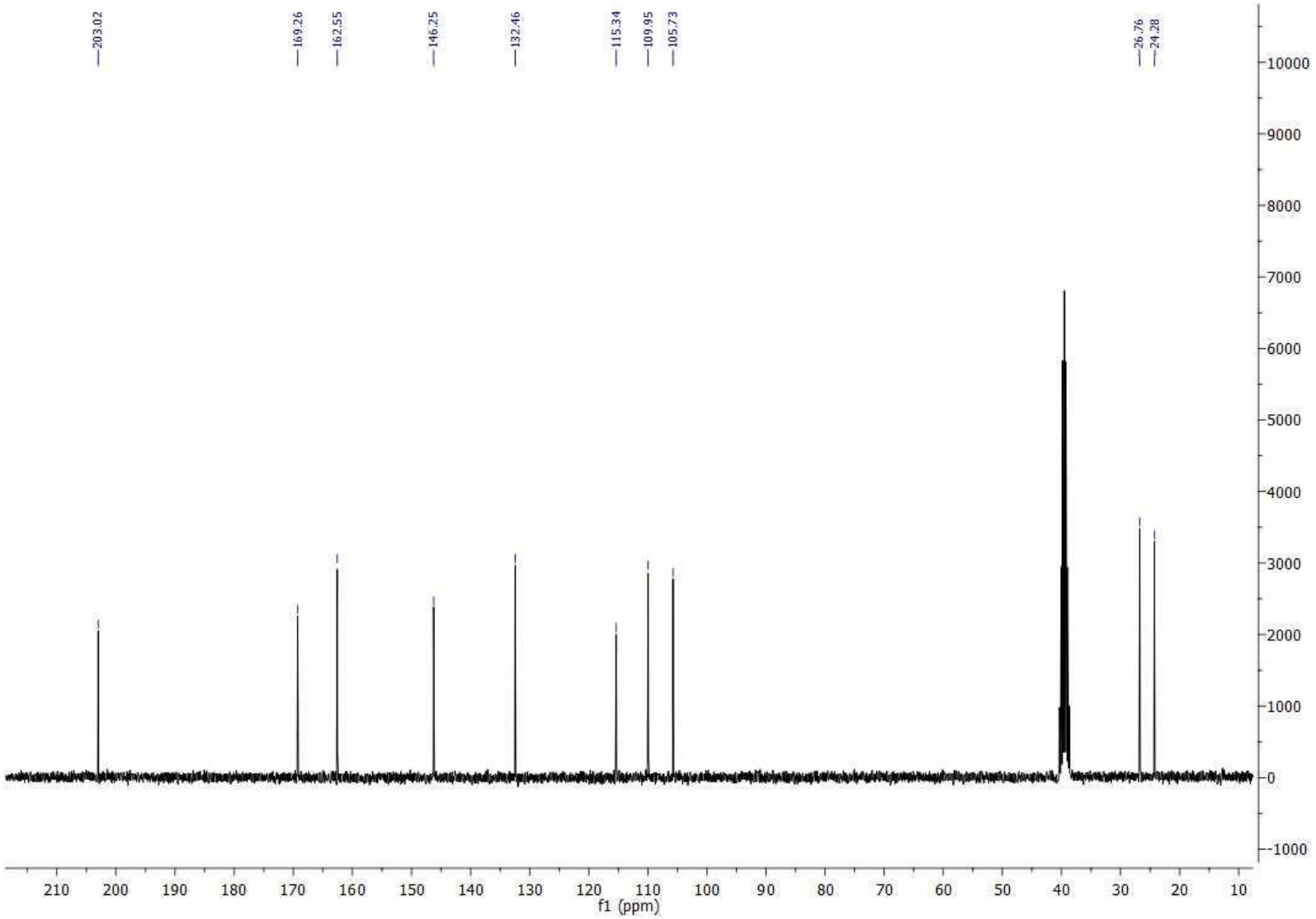
^{13}C NMR (75 MHz, $CDCl_3$) of **1q**



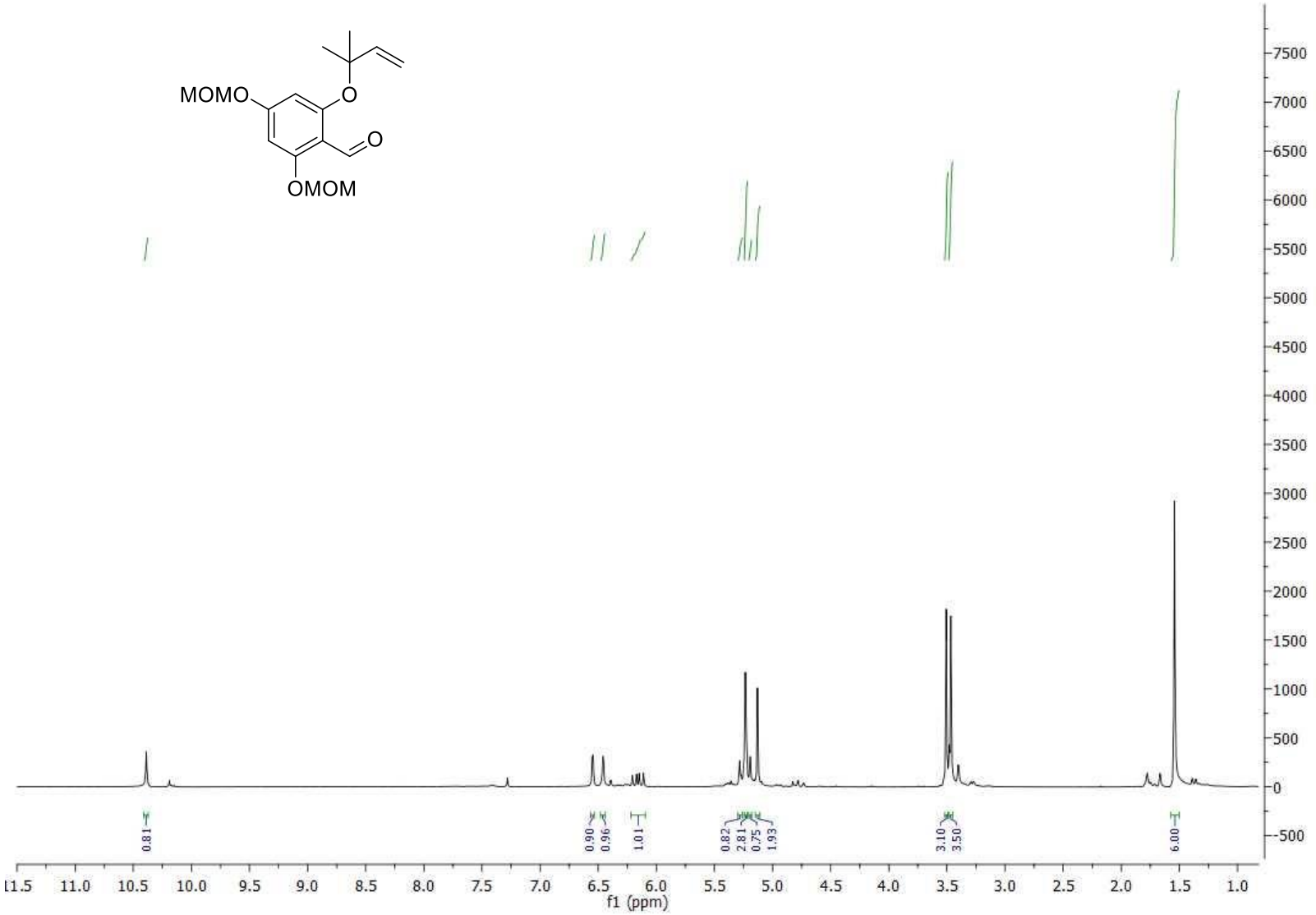
^{1}H NMR (300 MHz, DMSO-d_6) of **1r**



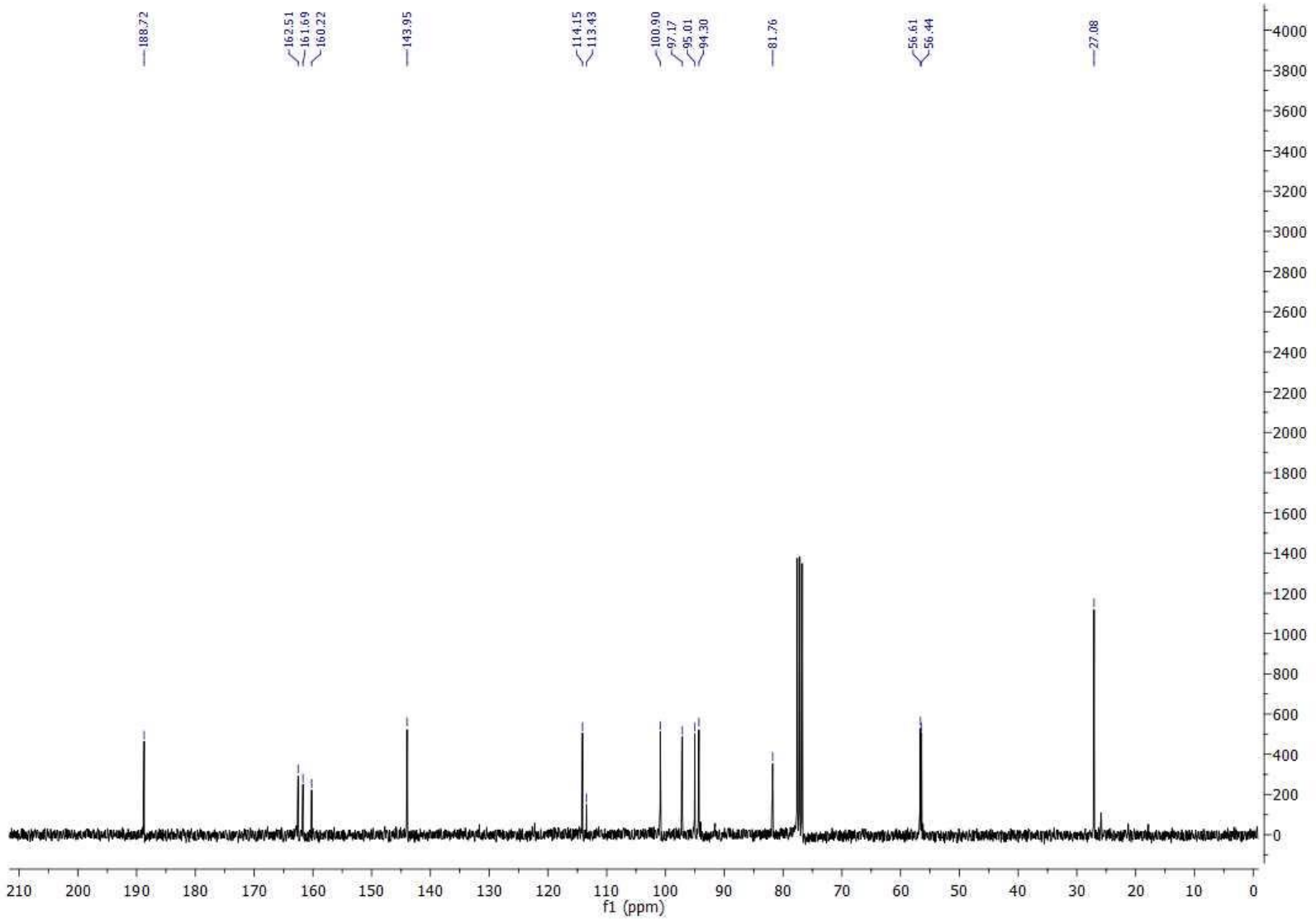
^{13}C NMR (75 MHz, DMSO-d_6) of **1r**



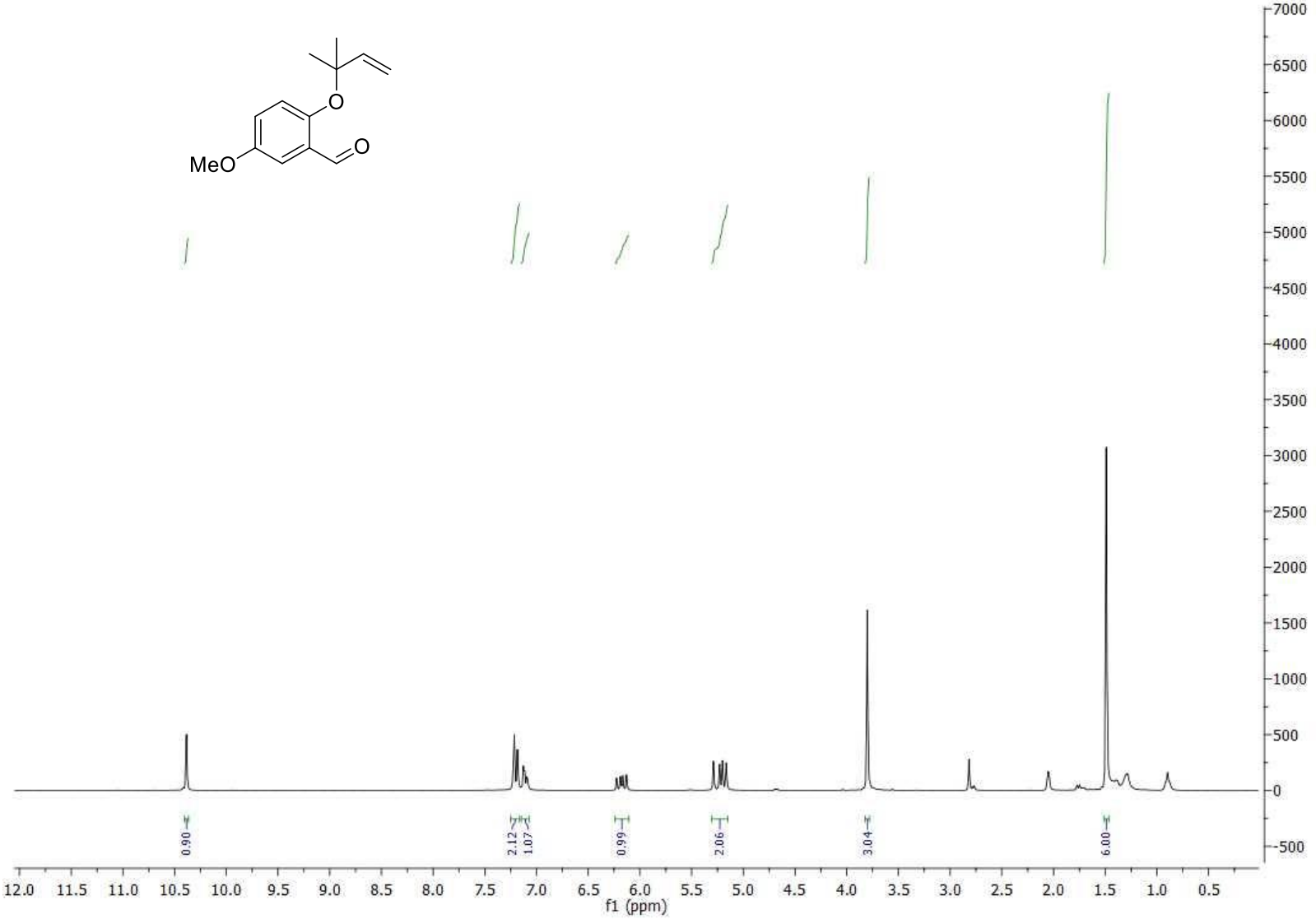
^{1}H NMR (300 MHz, $CDCl_3$) of **3a**



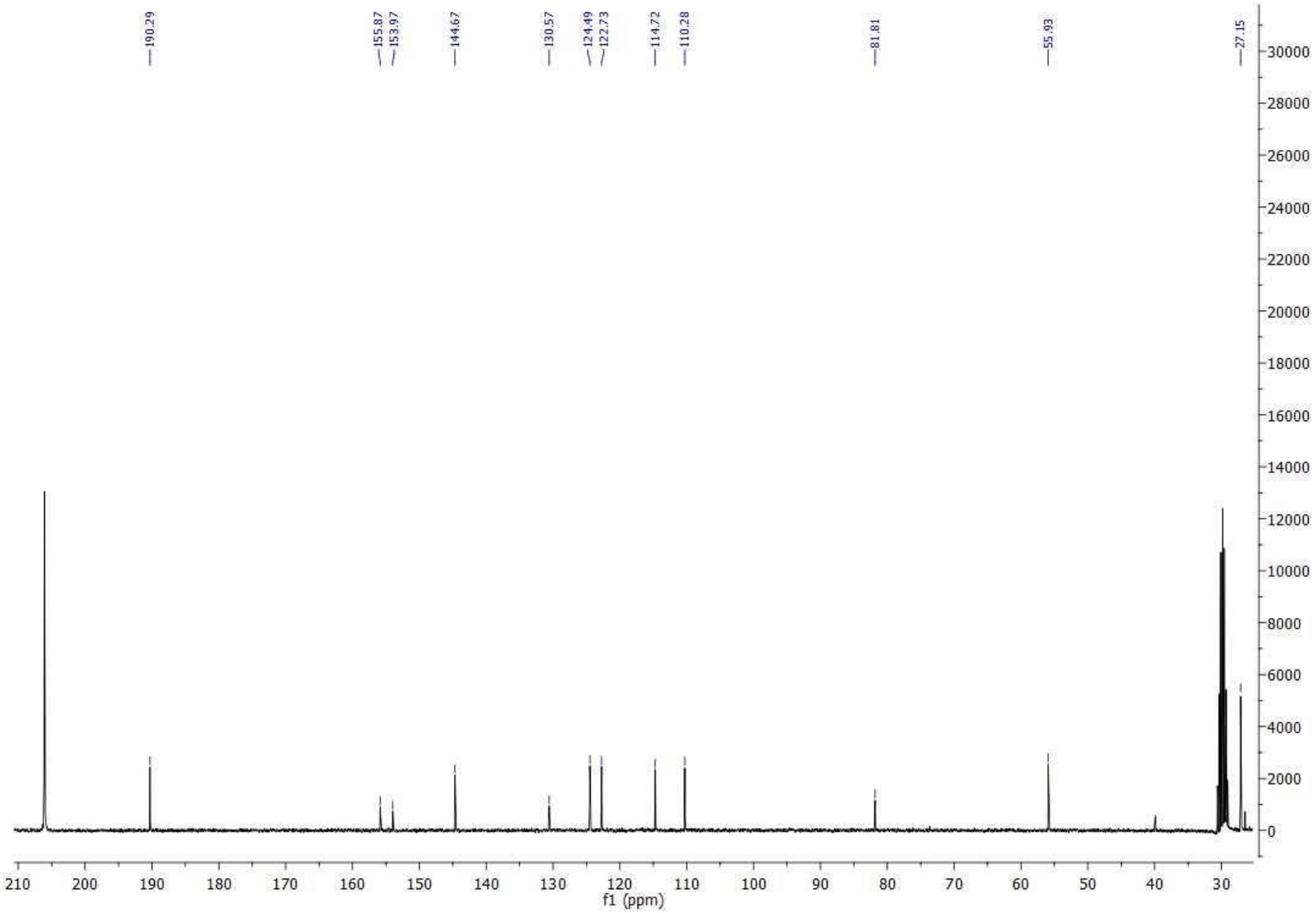
^{13}C NMR (75 MHz, $CDCl_3$) of **3a**



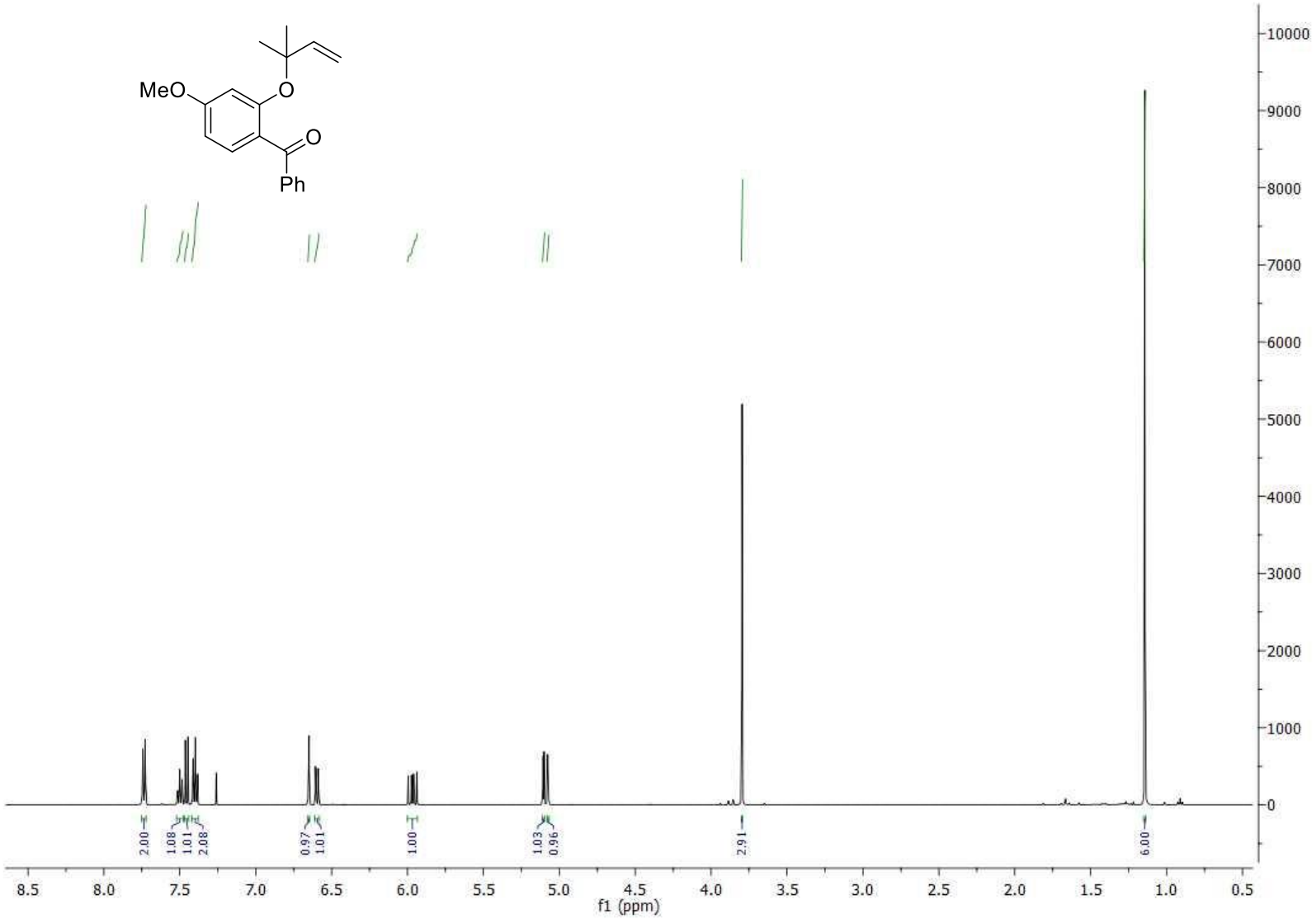
^{1}H NMR (300 MHz, acetone-d_6) of **3e**



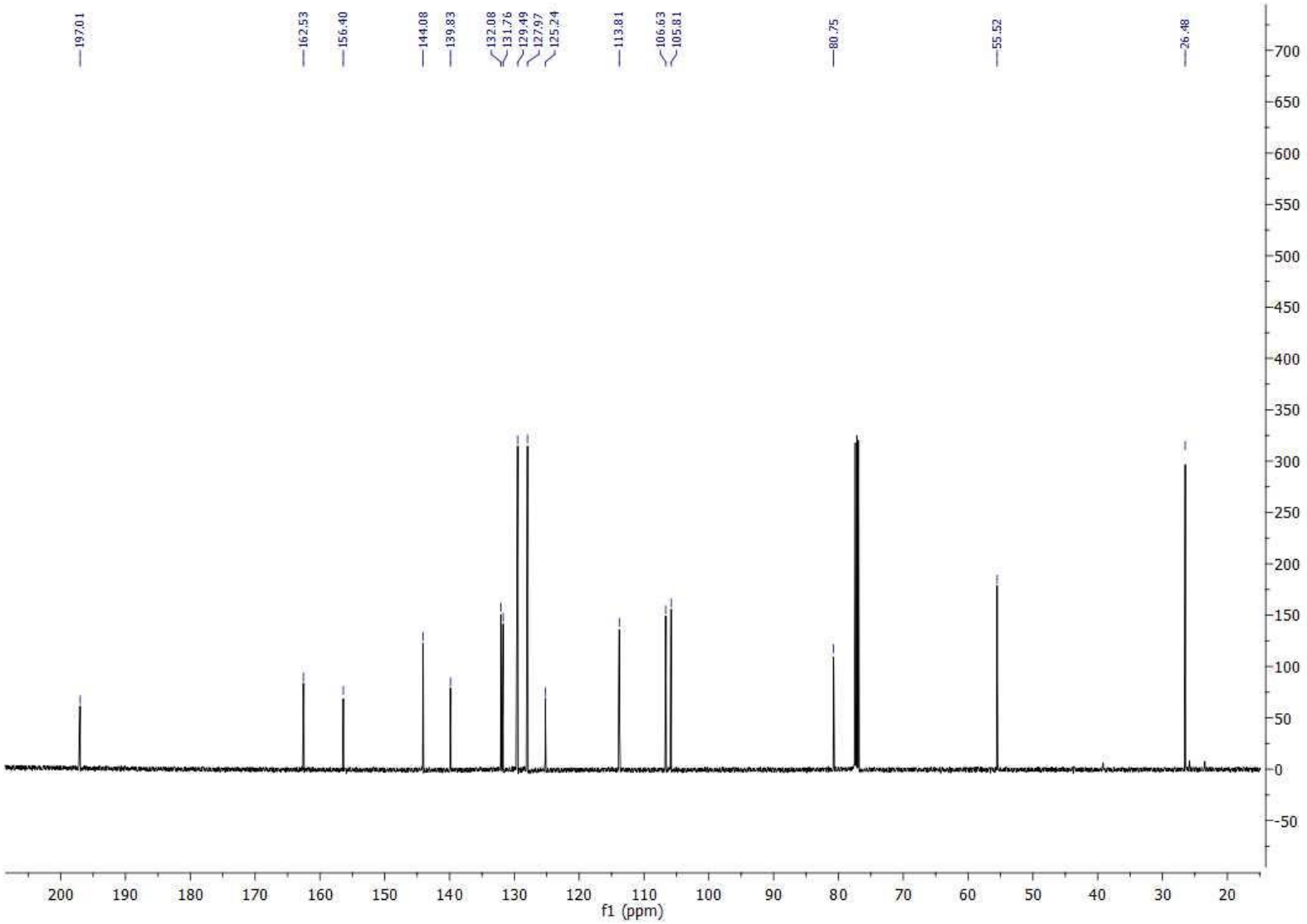
^{13}C NMR (75 MHz, acetone-d_6) of **3e**



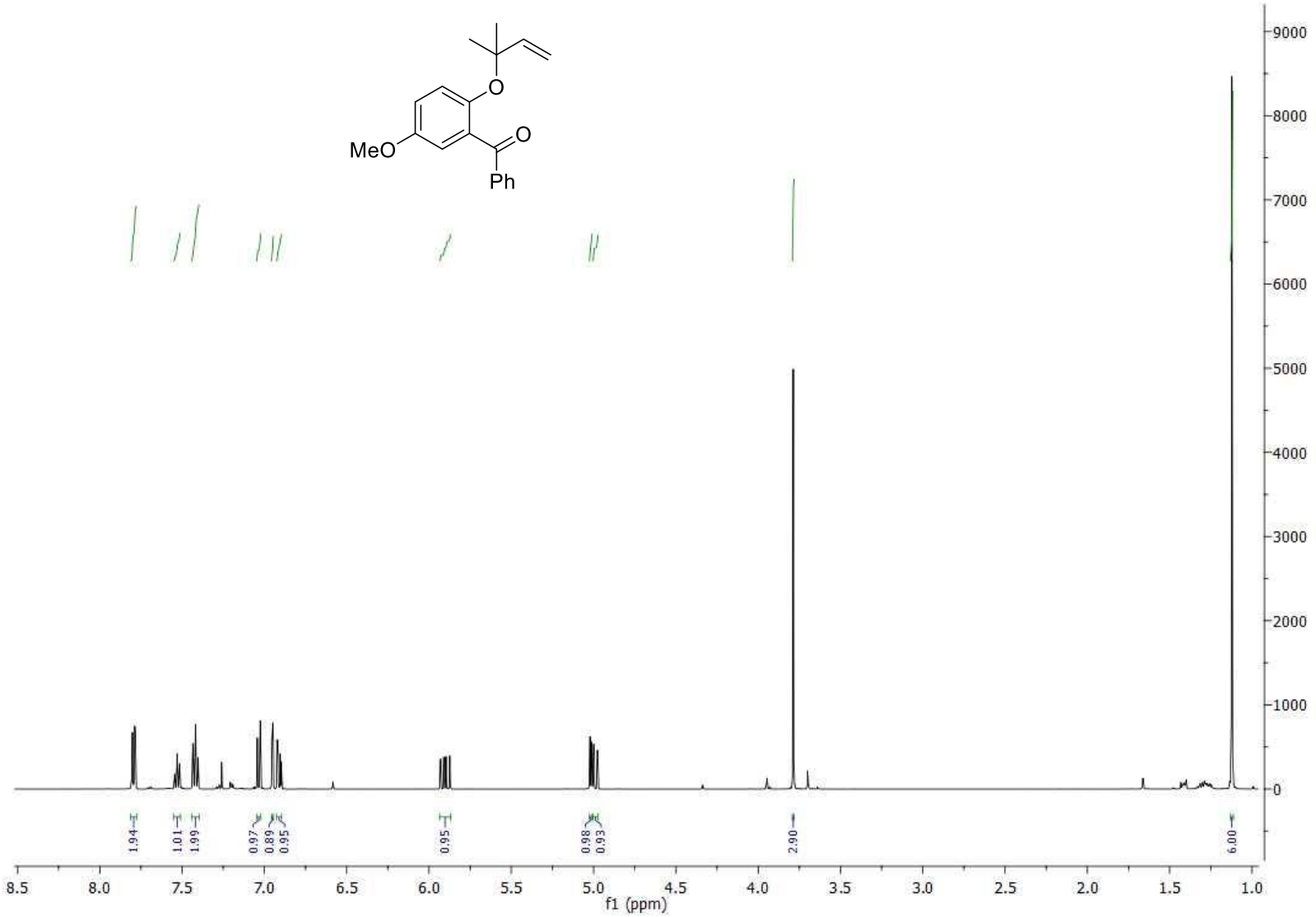
^{1}H NMR (300 MHz, $CDCl_3$) of **3f**



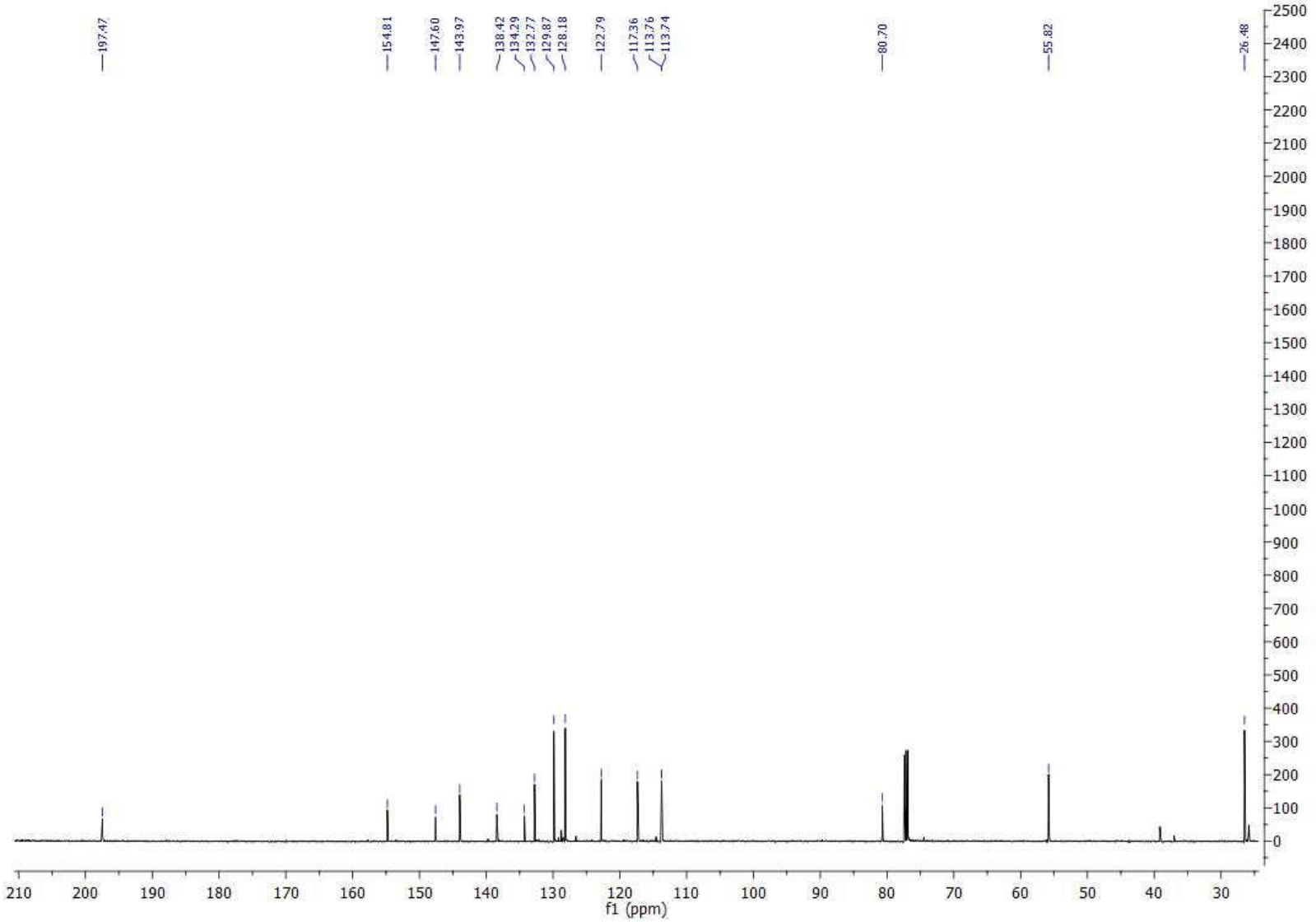
^{13}C NMR (75 MHz, $CDCl_3$) of **3f**



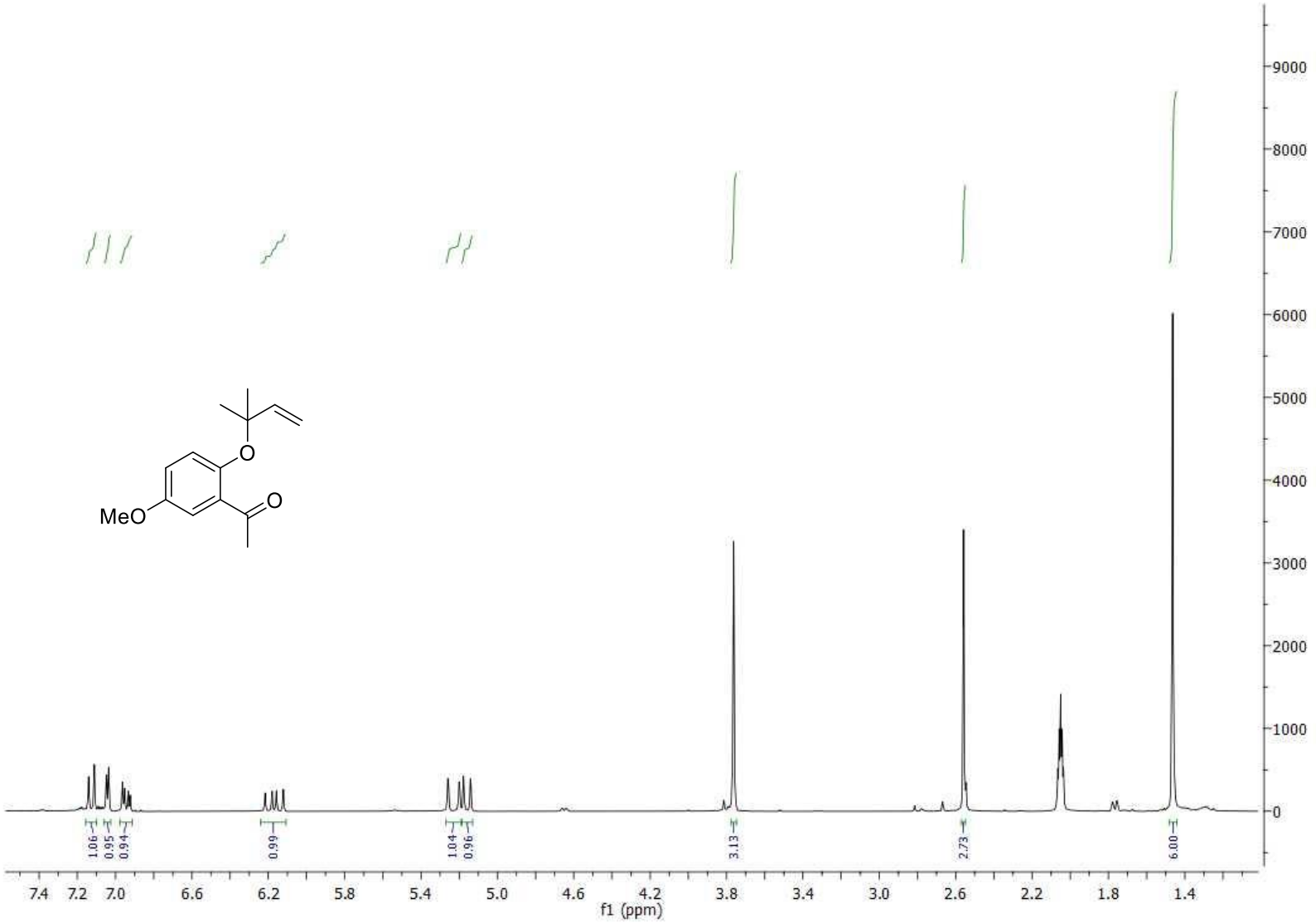
^{1}H NMR (300 MHz, $CDCl_3$) of **3g**



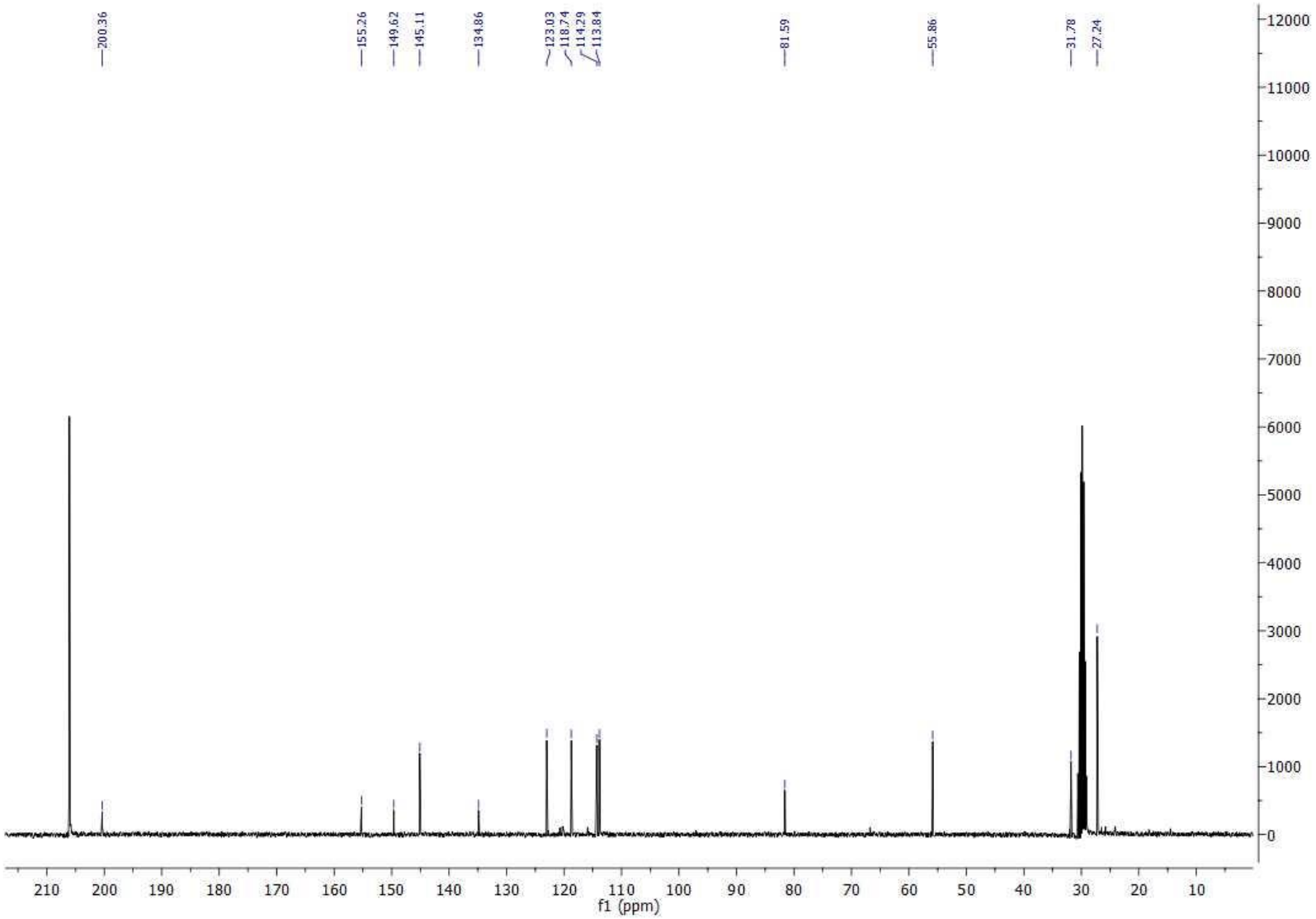
^{13}C NMR (75 MHz, $CDCl_3$) of **3g**



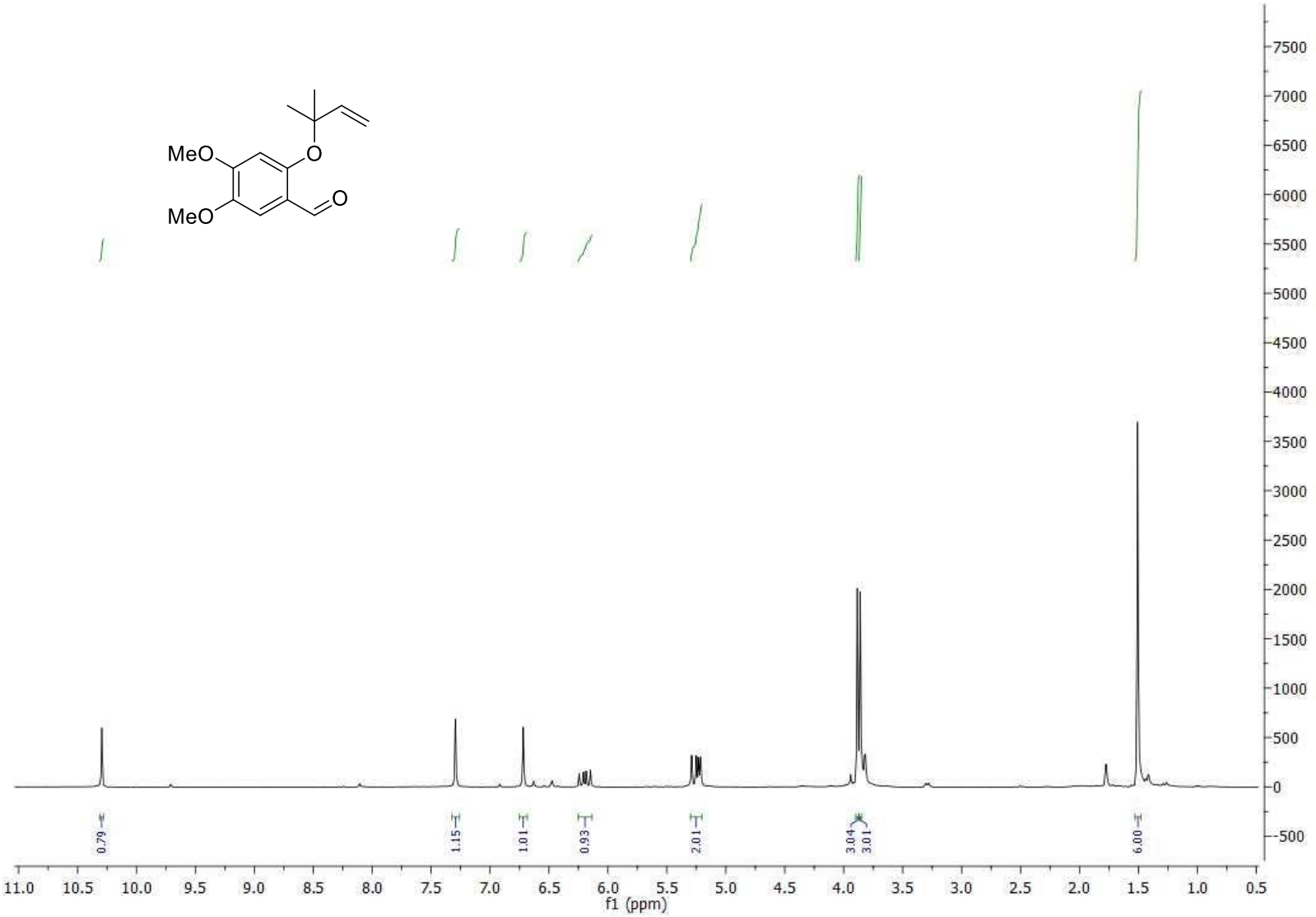
^{1}H NMR (300 MHz, acetone-d_6) of **3i**



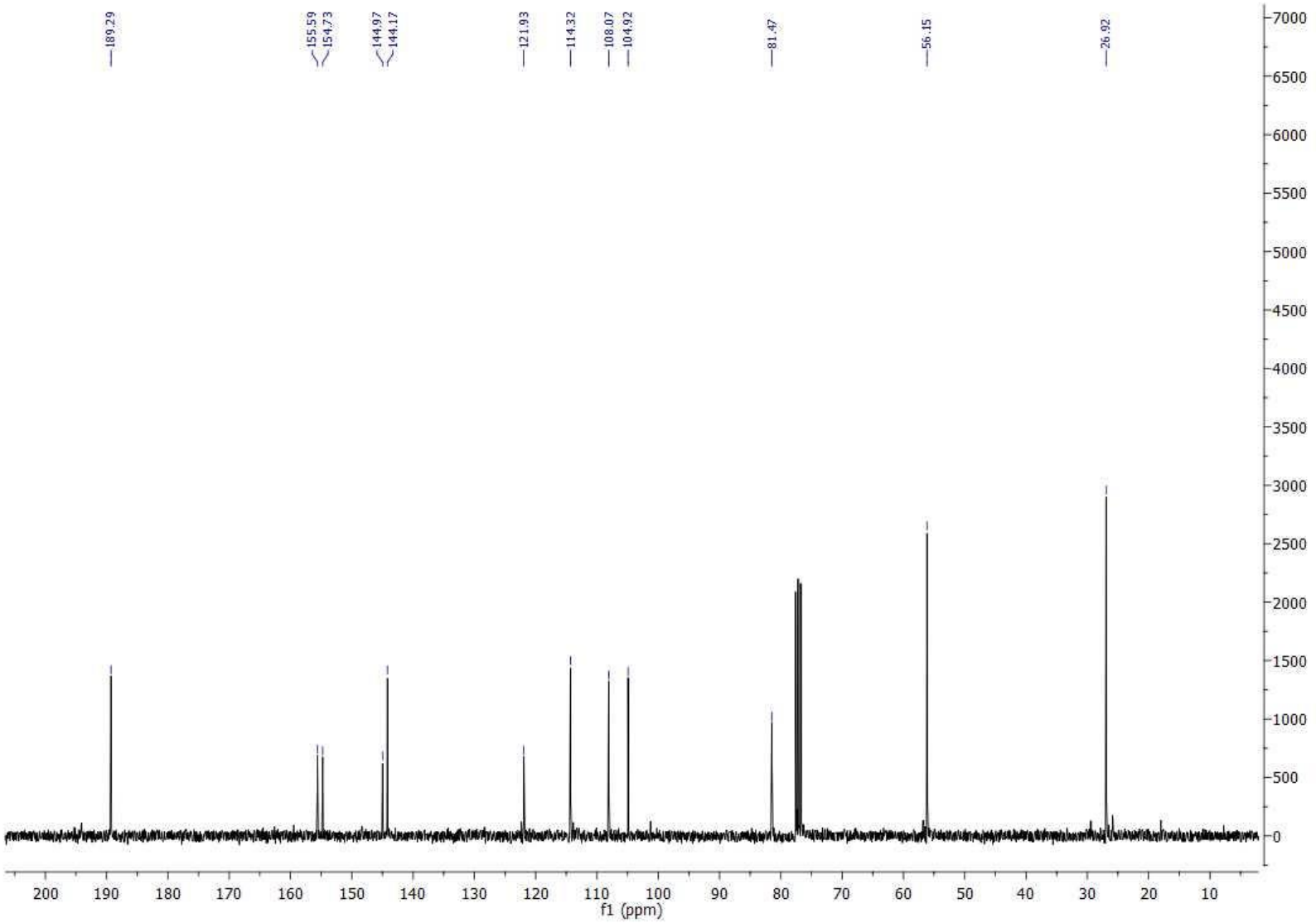
^{13}C NMR (75 MHz, acetone-d_6) of **3i**



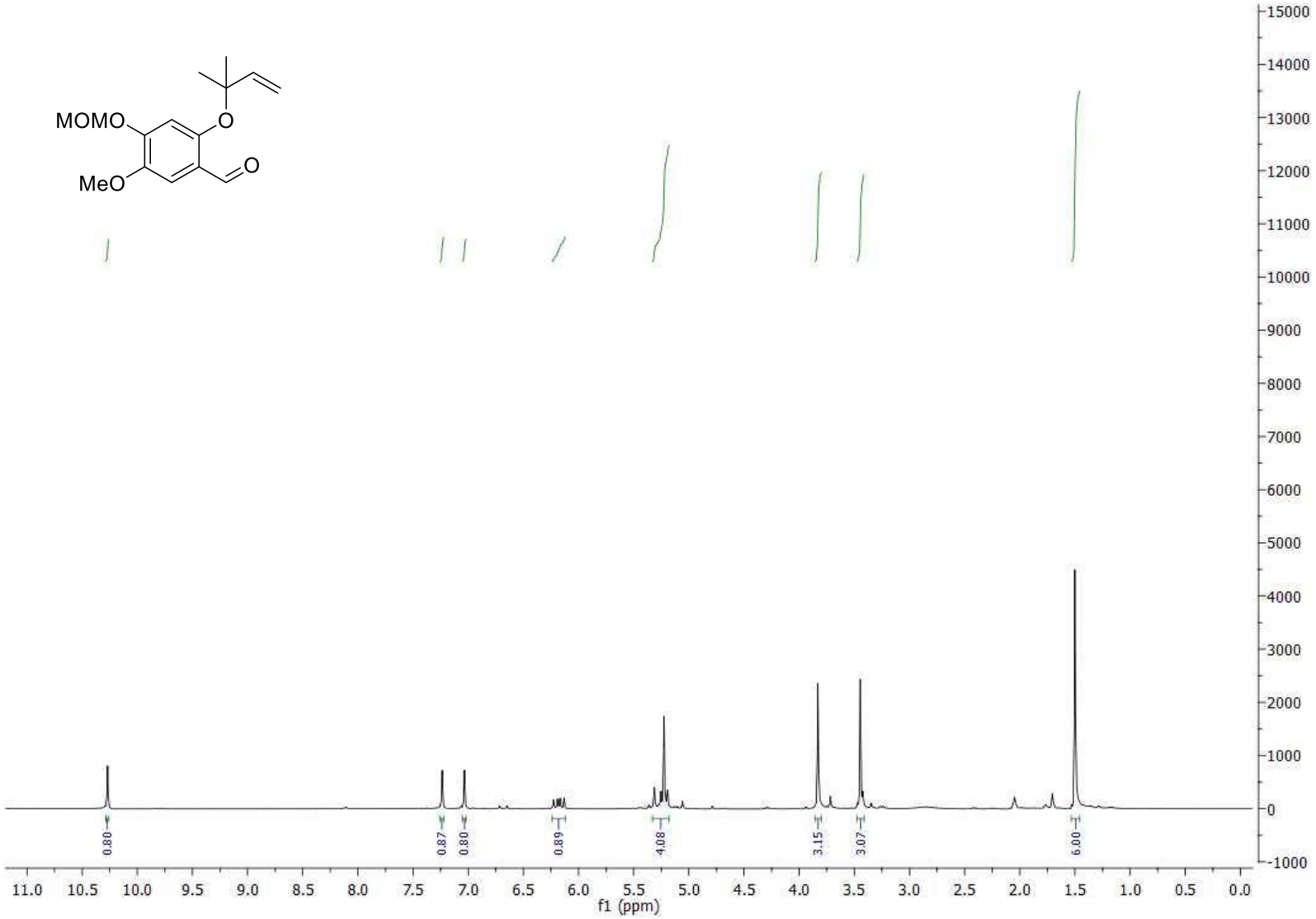
^{1}H NMR (300 MHz, $CDCl_3$) of **3j**



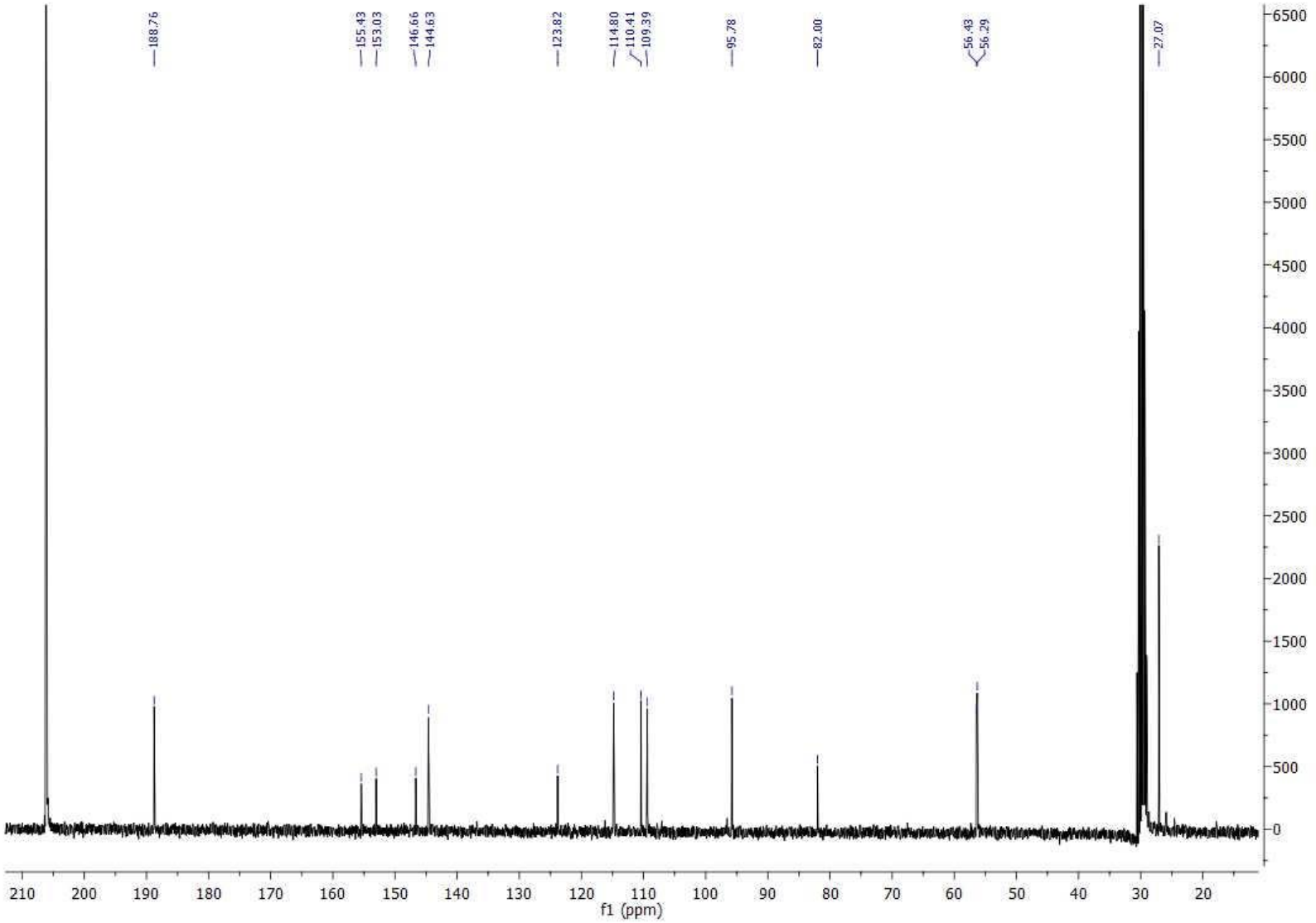
^{13}C NMR (75 MHz, $CDCl_3$) of **3j**



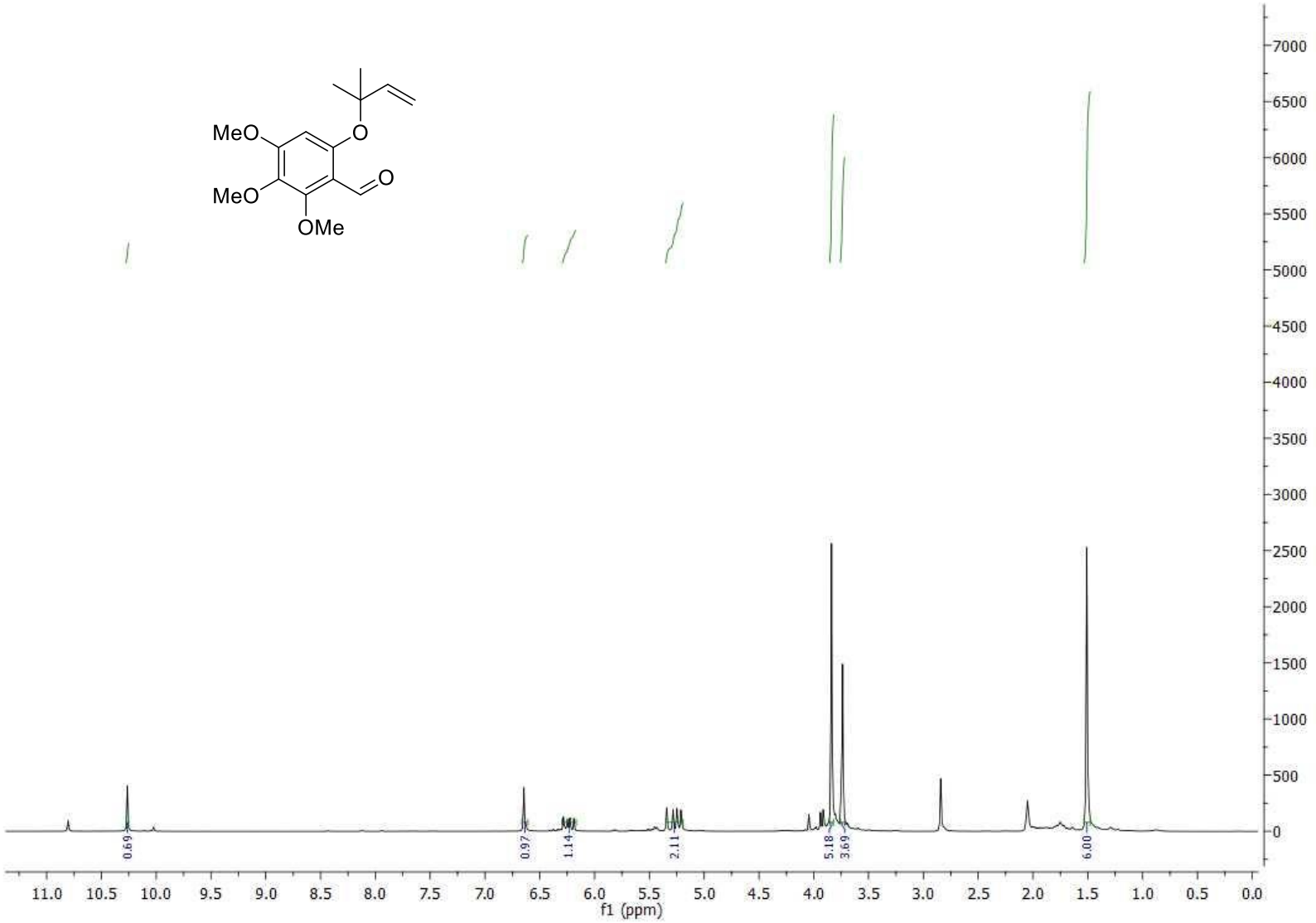
^{1}H NMR (300 MHz, acetone-d_6) of **3k**



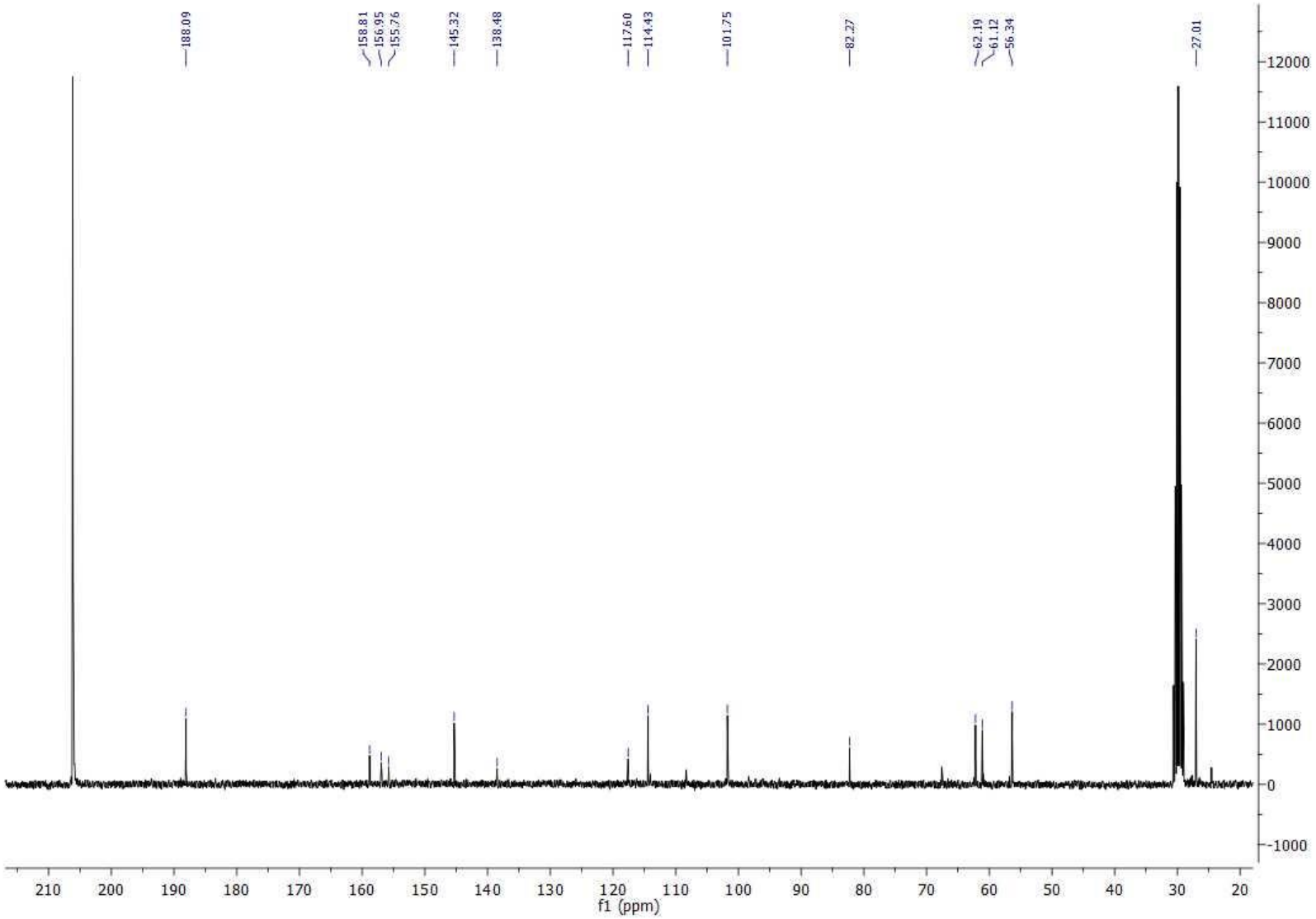
^{13}C NMR (75 MHz, acetone-d_6) of **3k**



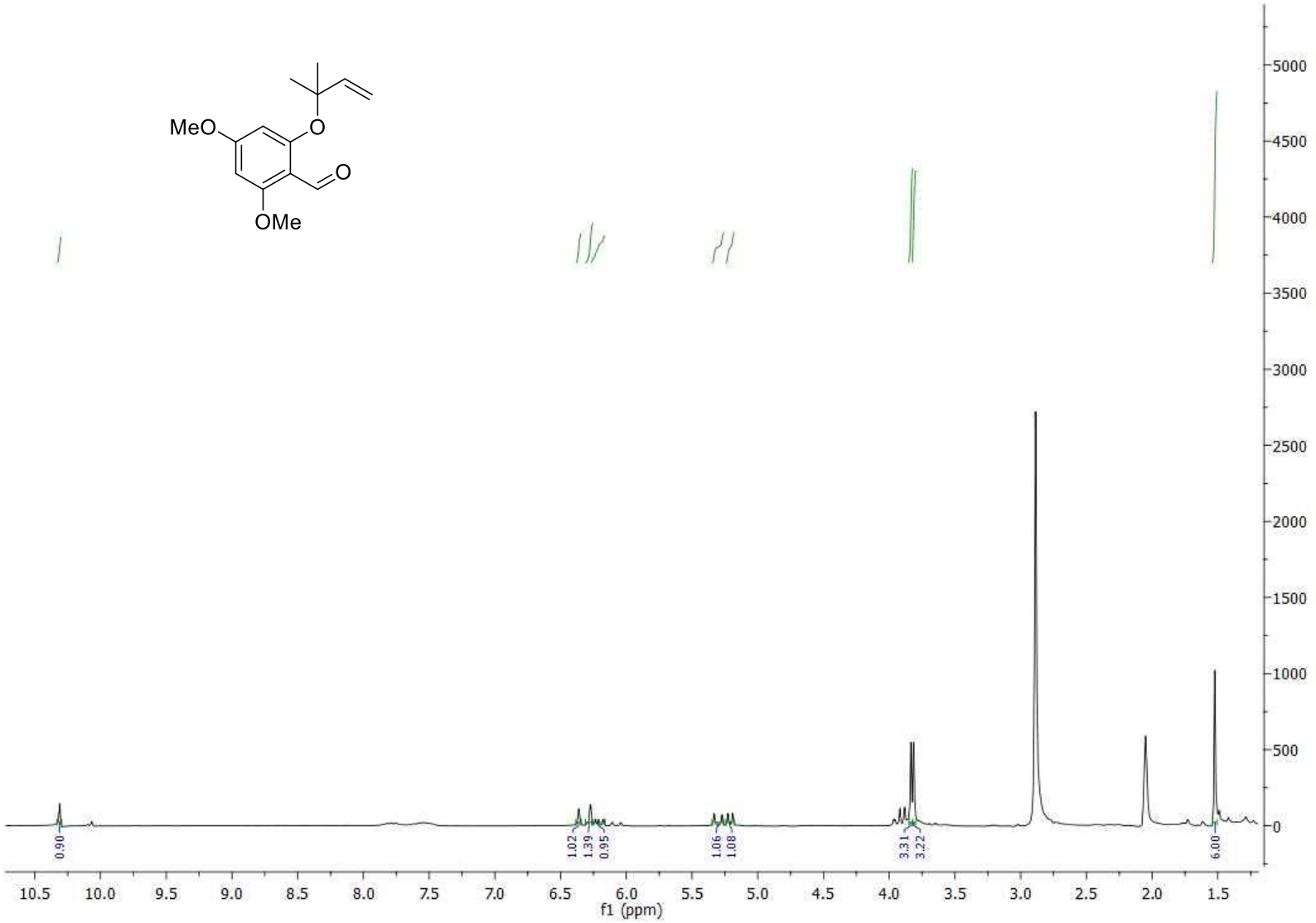
^{1}H NMR (300 MHz, acetone-d_6) of **3l**



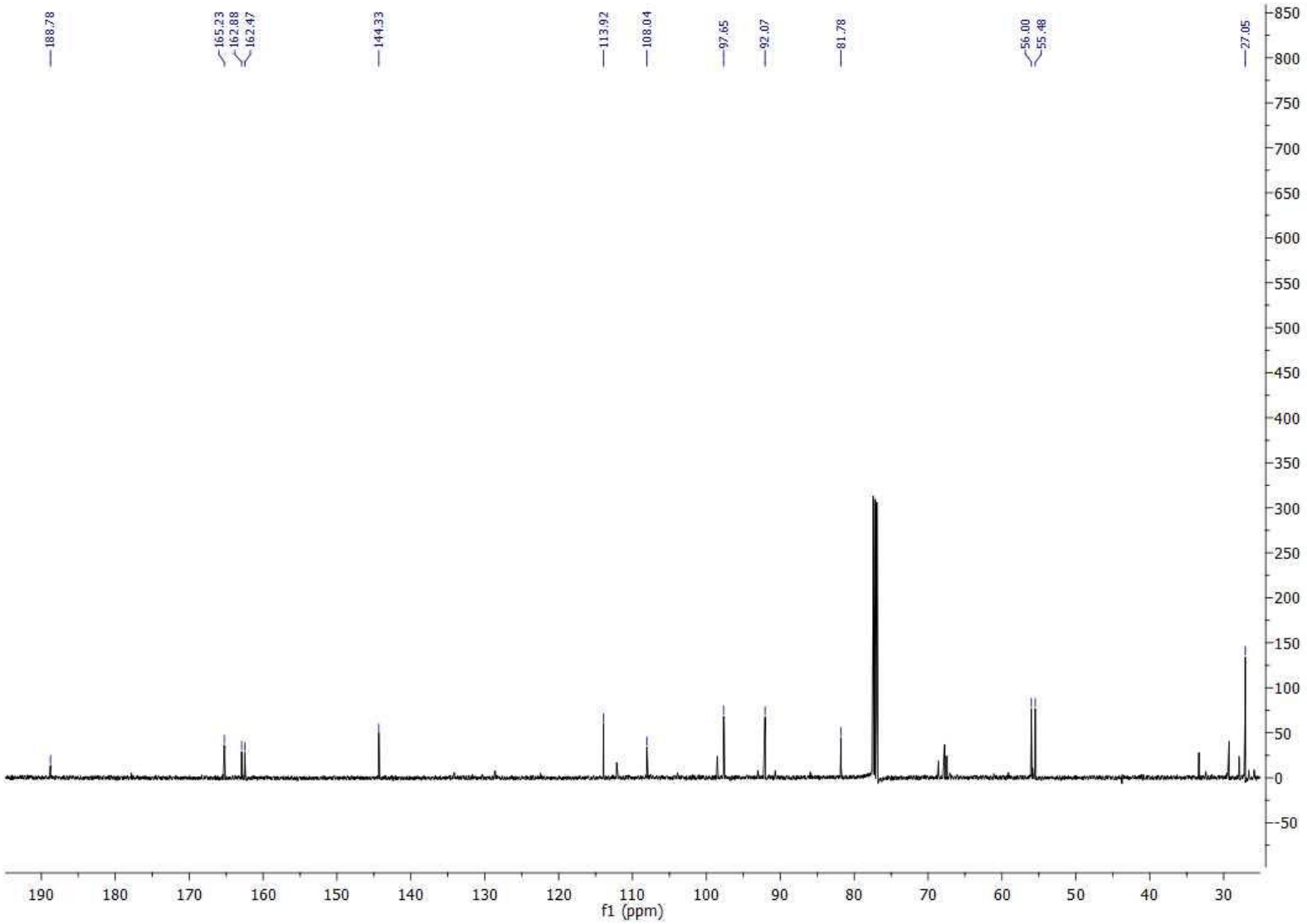
^{13}C NMR (75 MHz, acetone-d_6) of **3l**



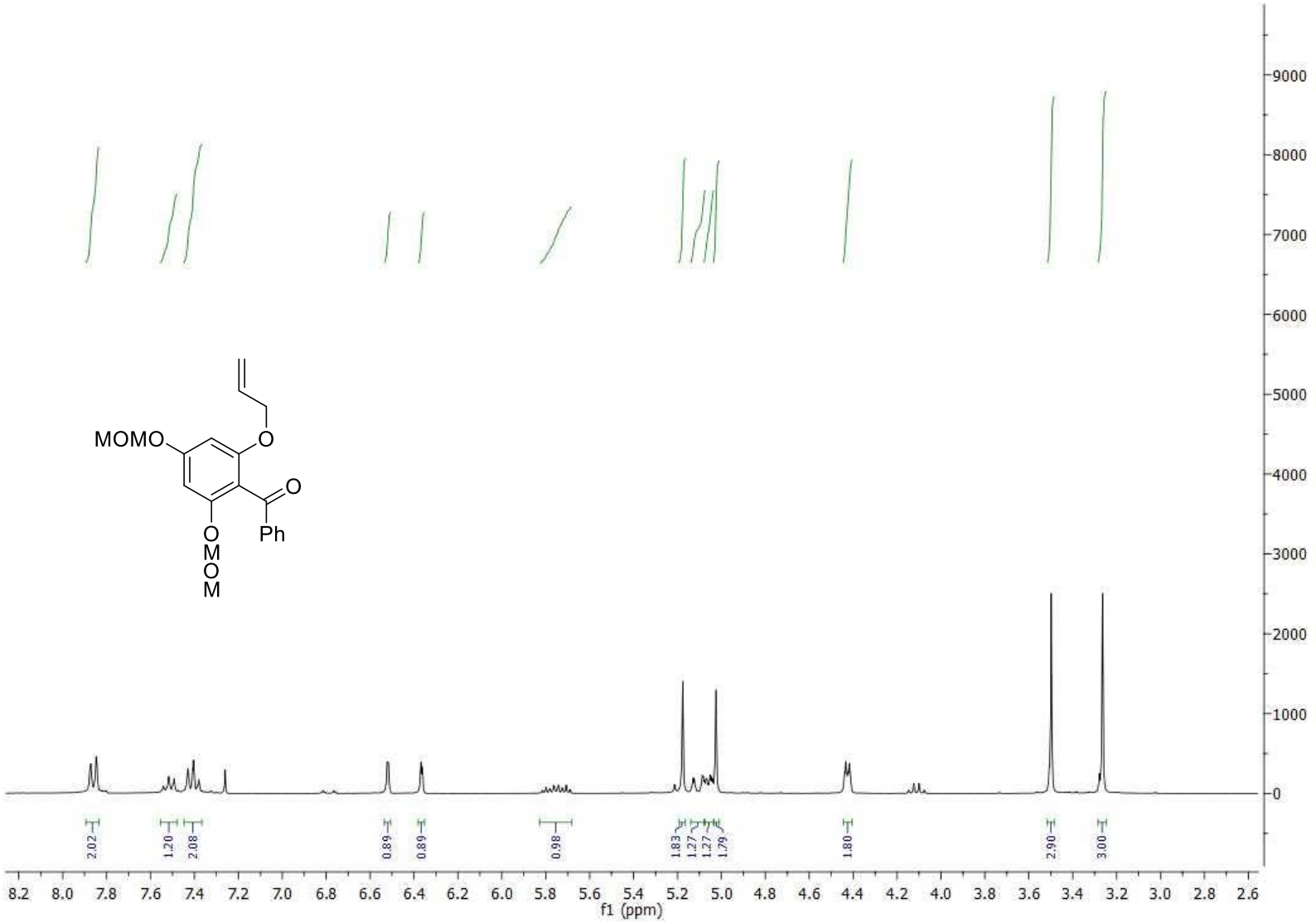
^{1}H NMR (300 MHz, acetone-d_6) of **3n**



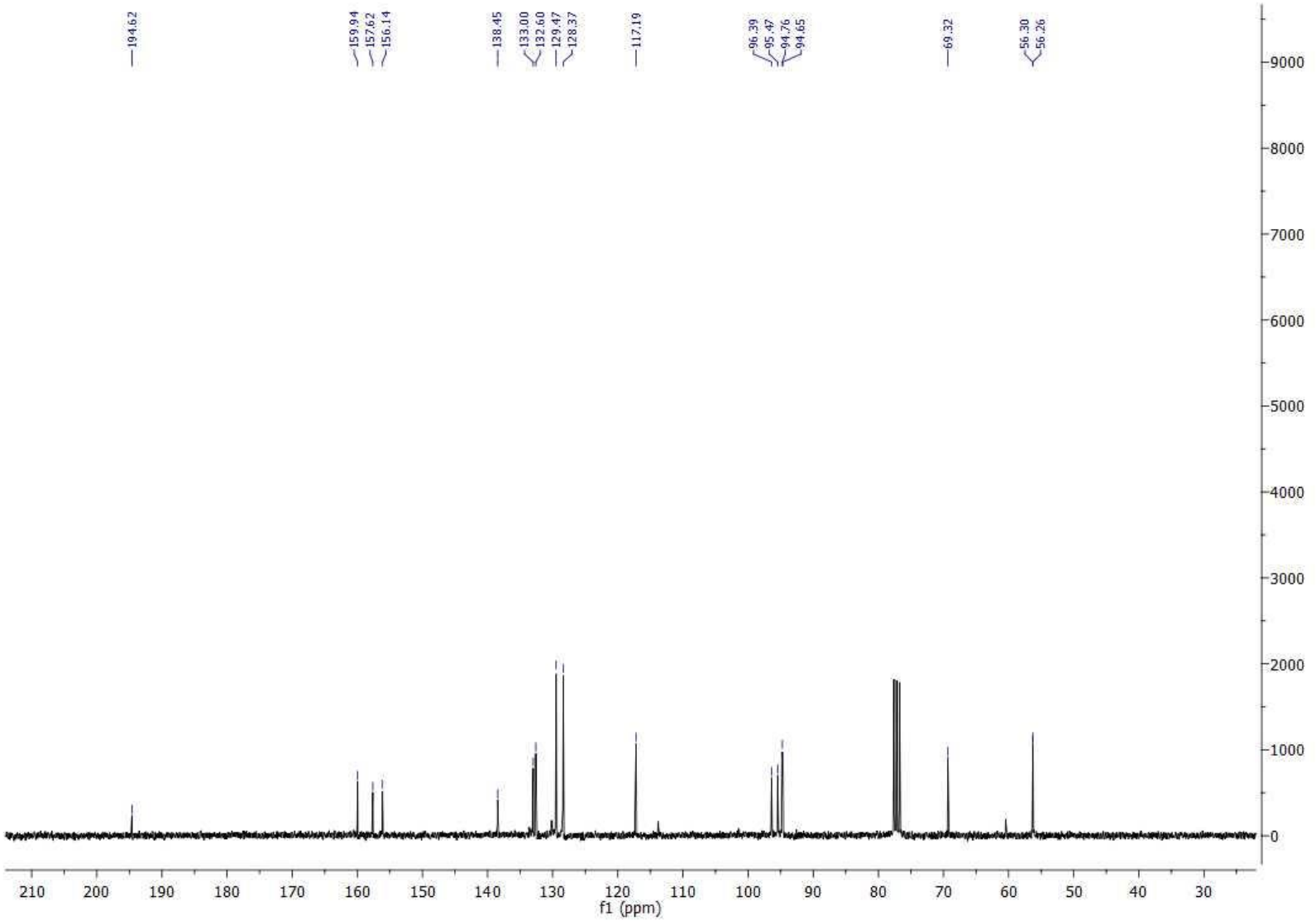
^{13}C NMR (75 MHz, acetone-d_6) of **3n**



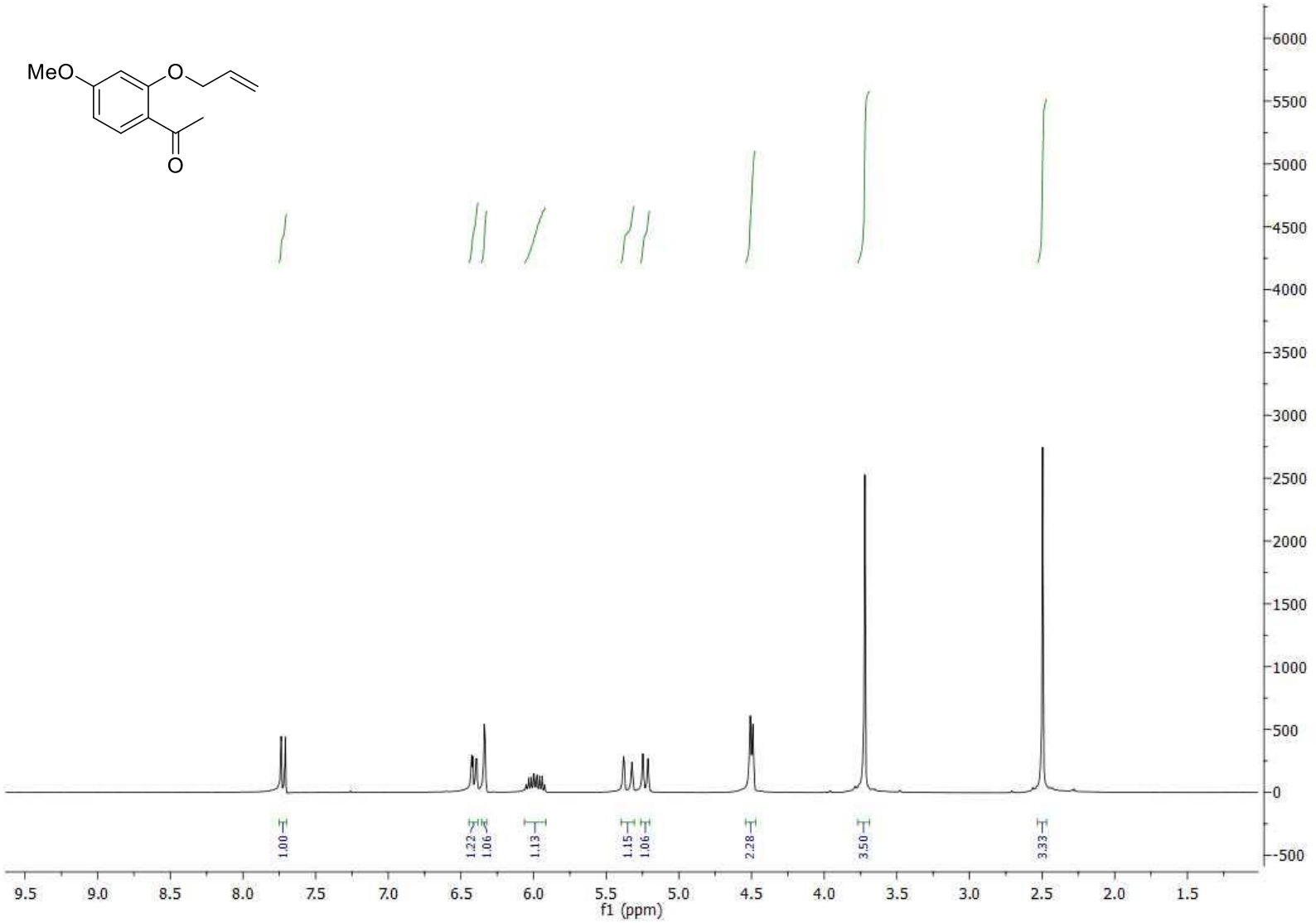
^{1}H NMR (300 MHz, $CDCl_3$) of **11b**



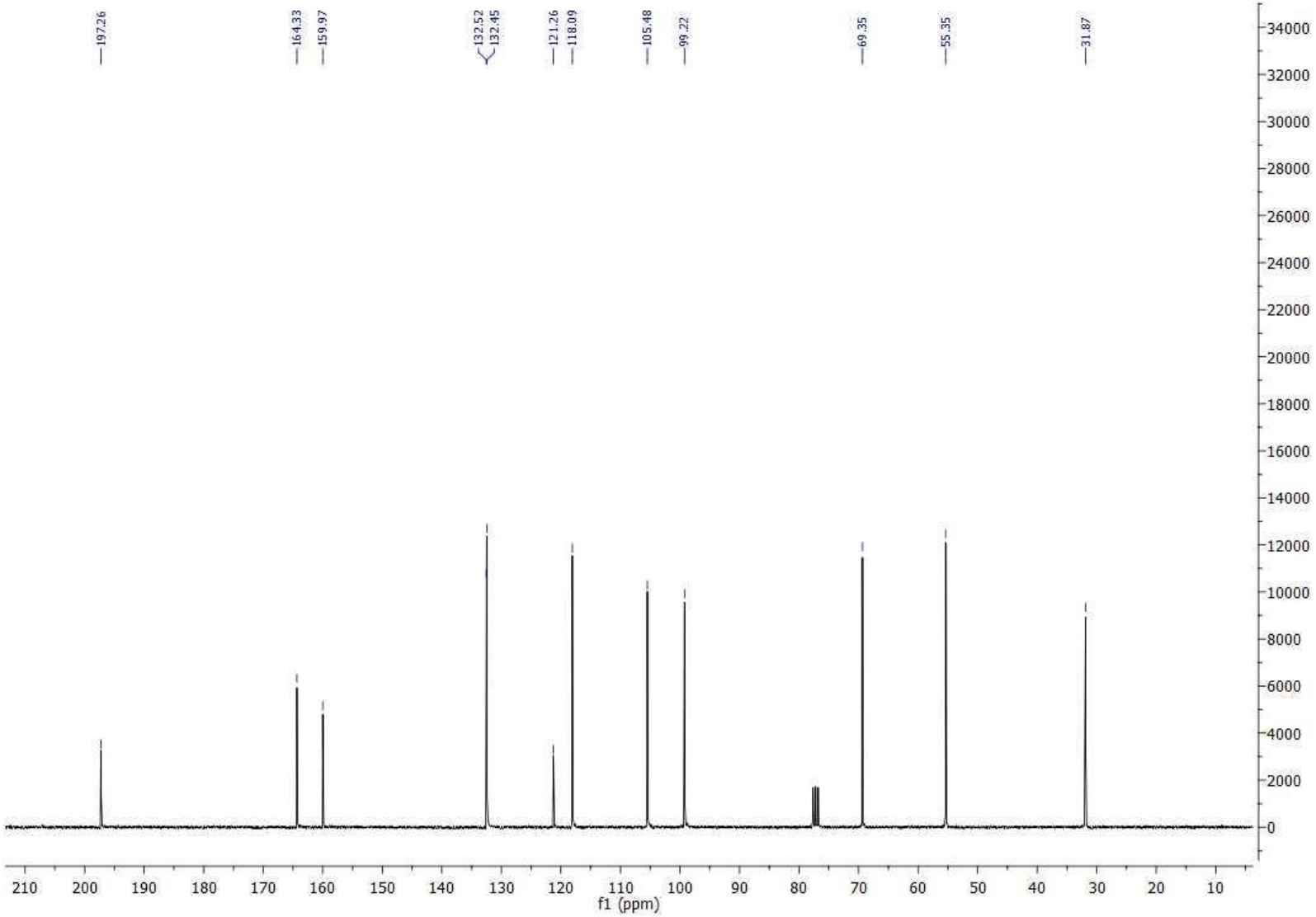
^{13}C NMR (75 MHz, $CDCl_3$) of **11b**



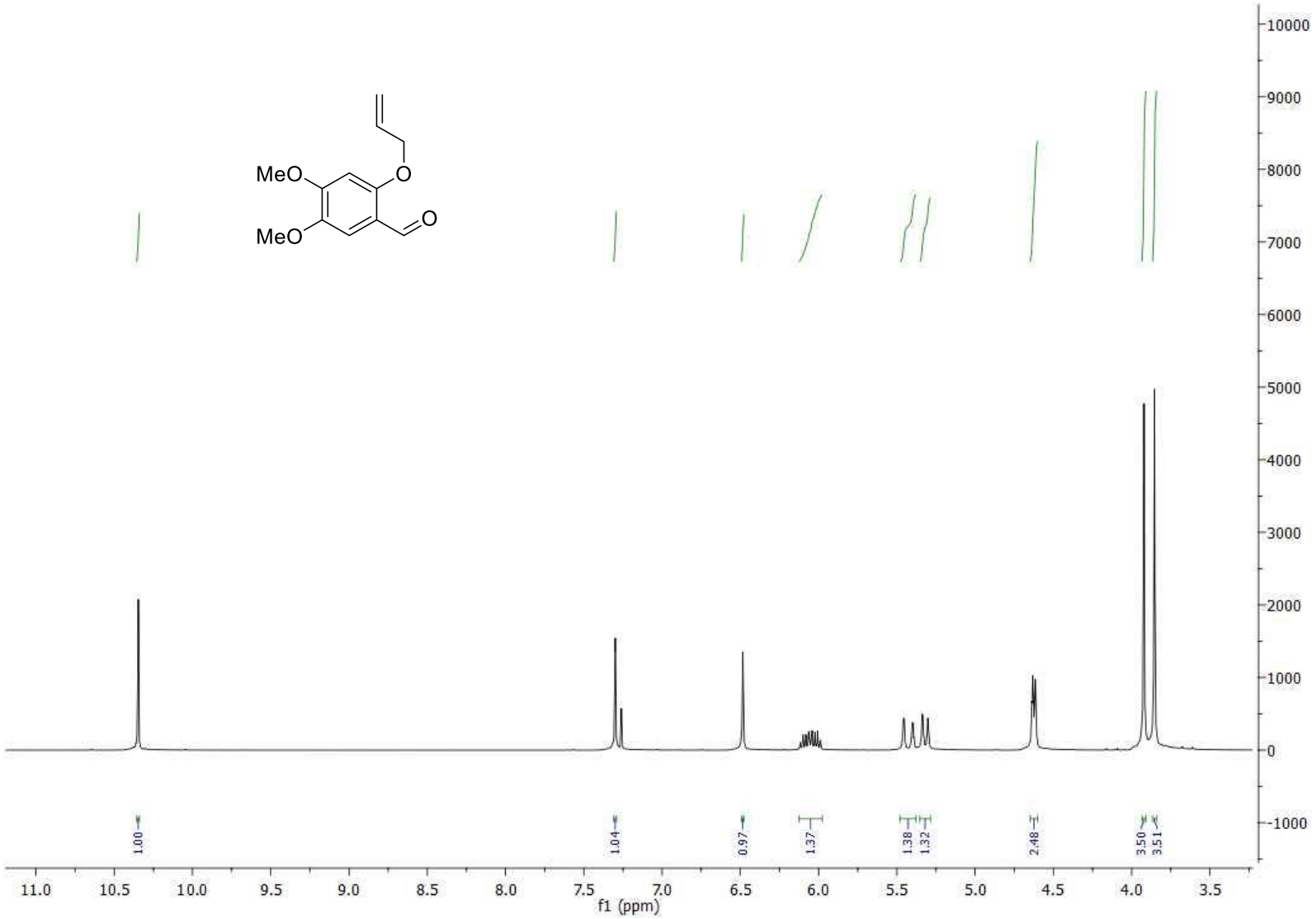
^{1}H NMR (300 MHz, $CDCl_3$) of **11h**



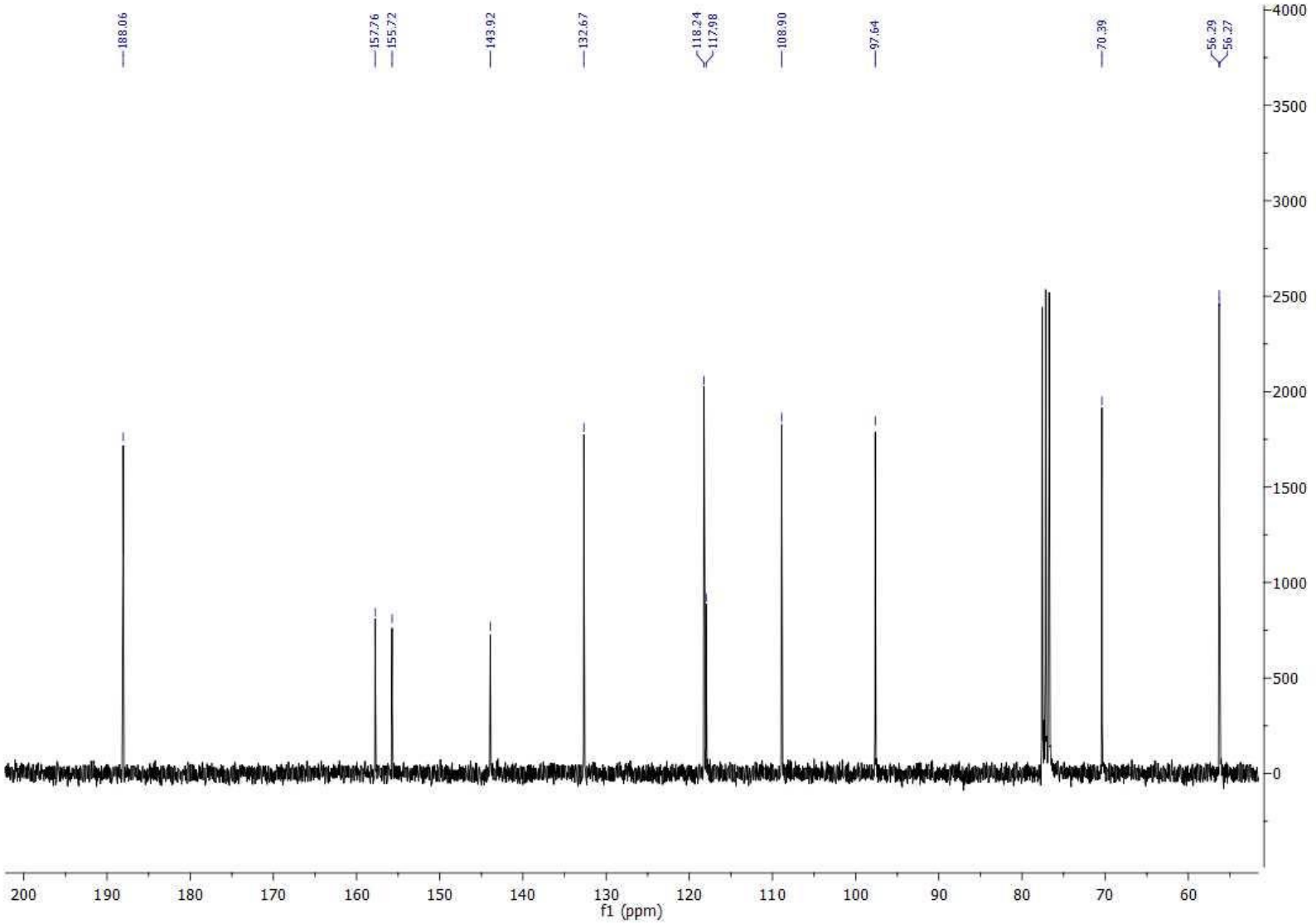
^{13}C NMR (75 MHz, $CDCl_3$) of **11h**



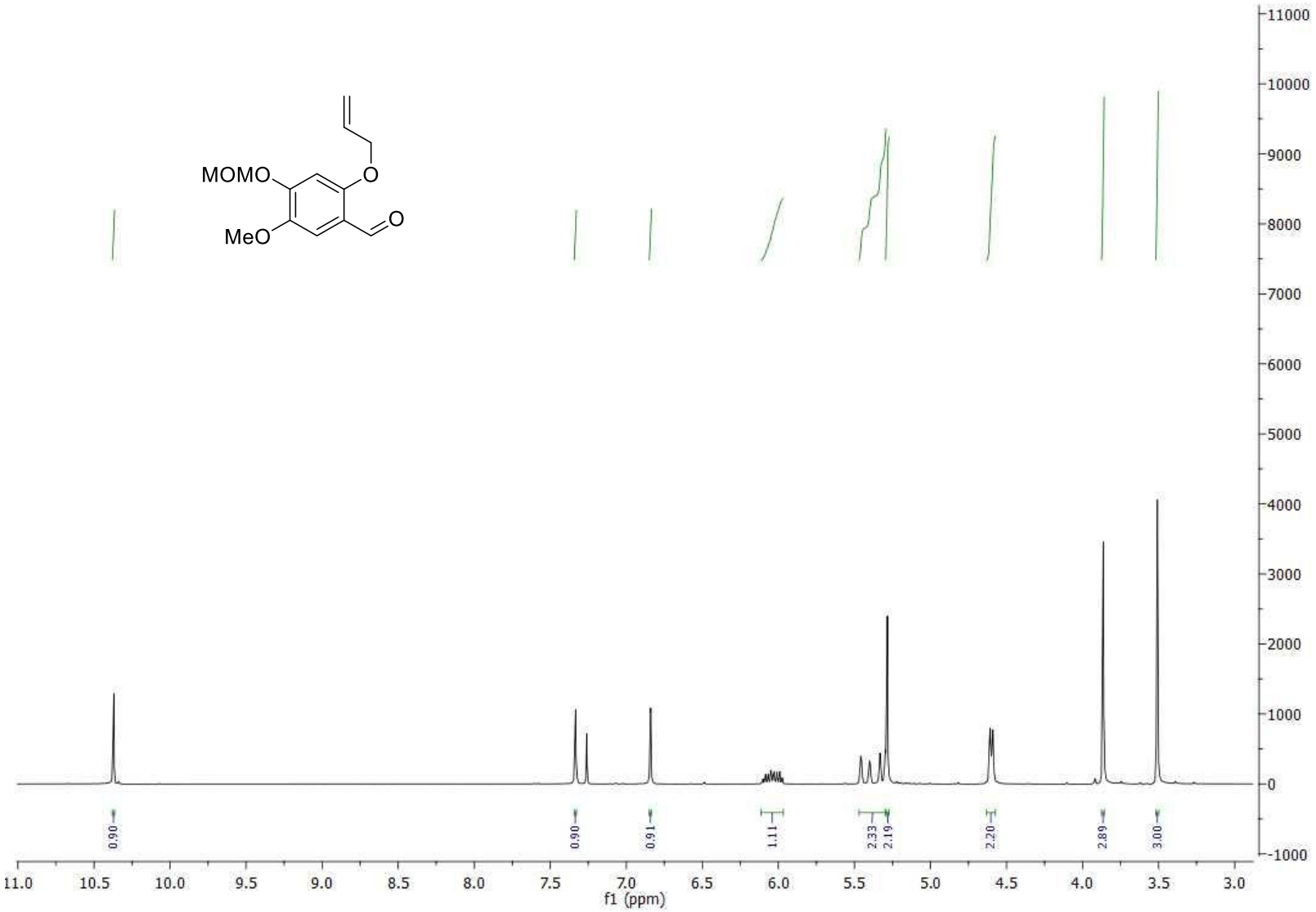
^{1}H NMR (300 MHz, $CDCl_3$) of **11j**



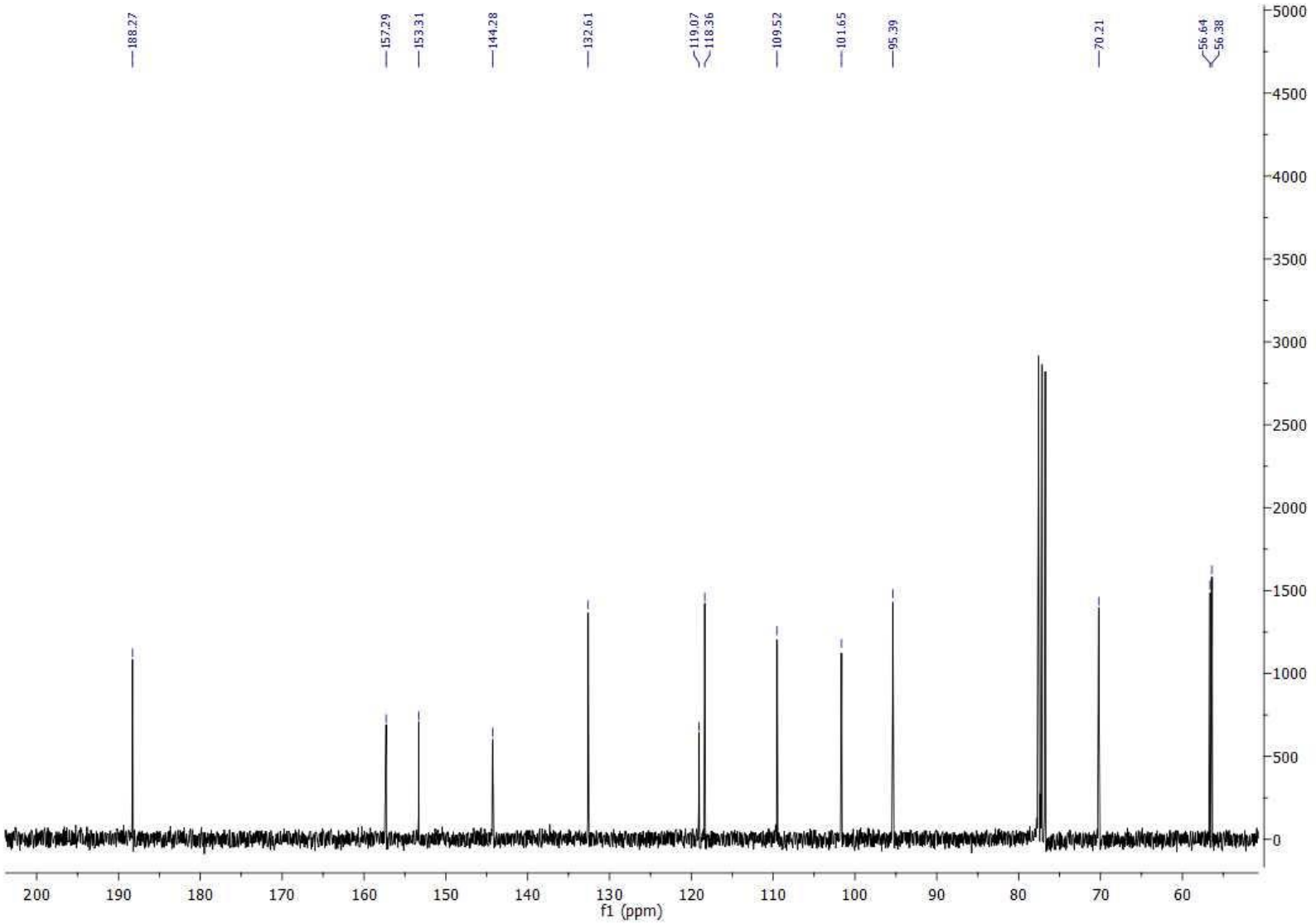
^{13}C NMR (75 MHz, $CDCl_3$) of **11j**



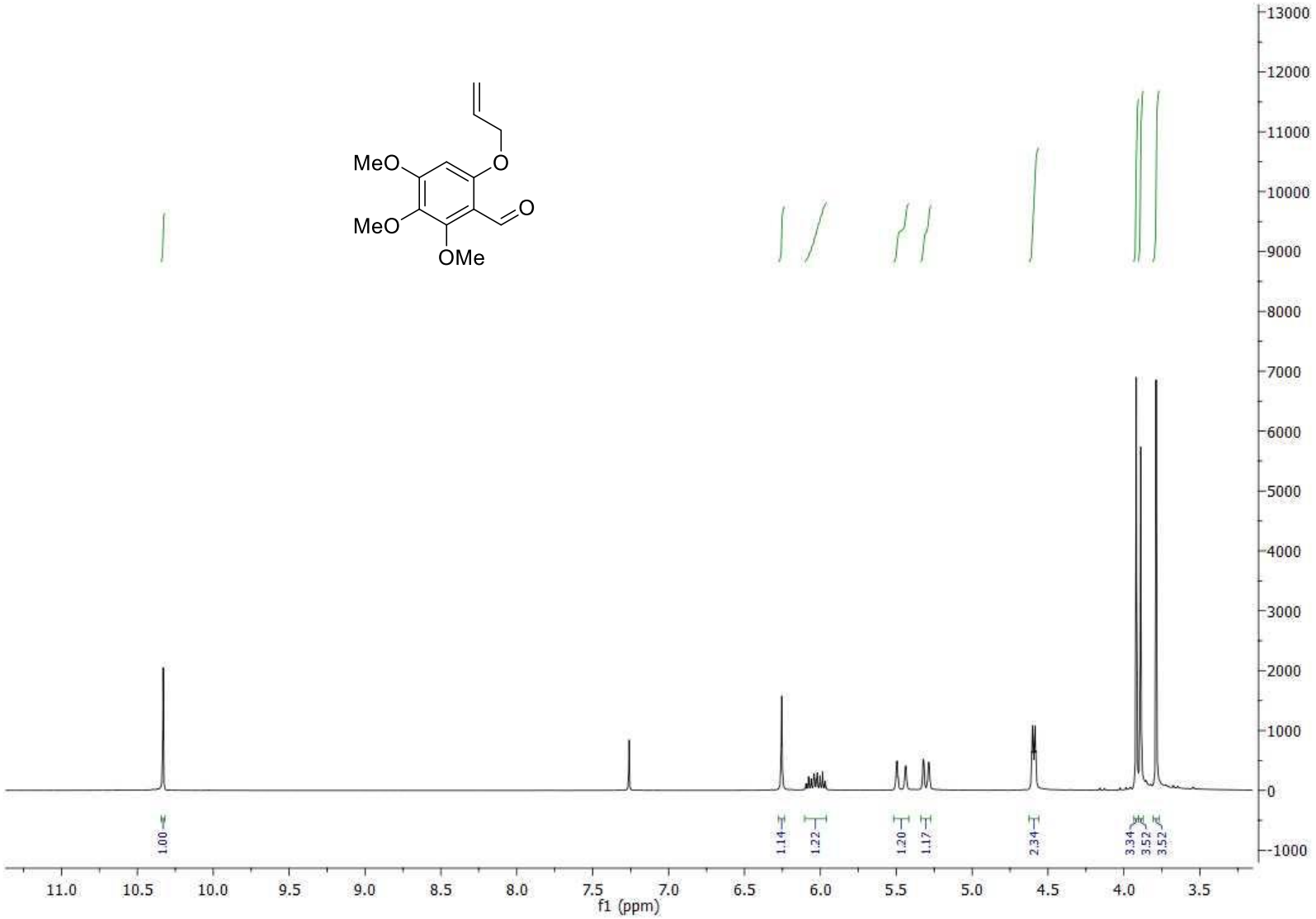
^{1}H NMR (300 MHz, $CDCl_3$) of **11k**



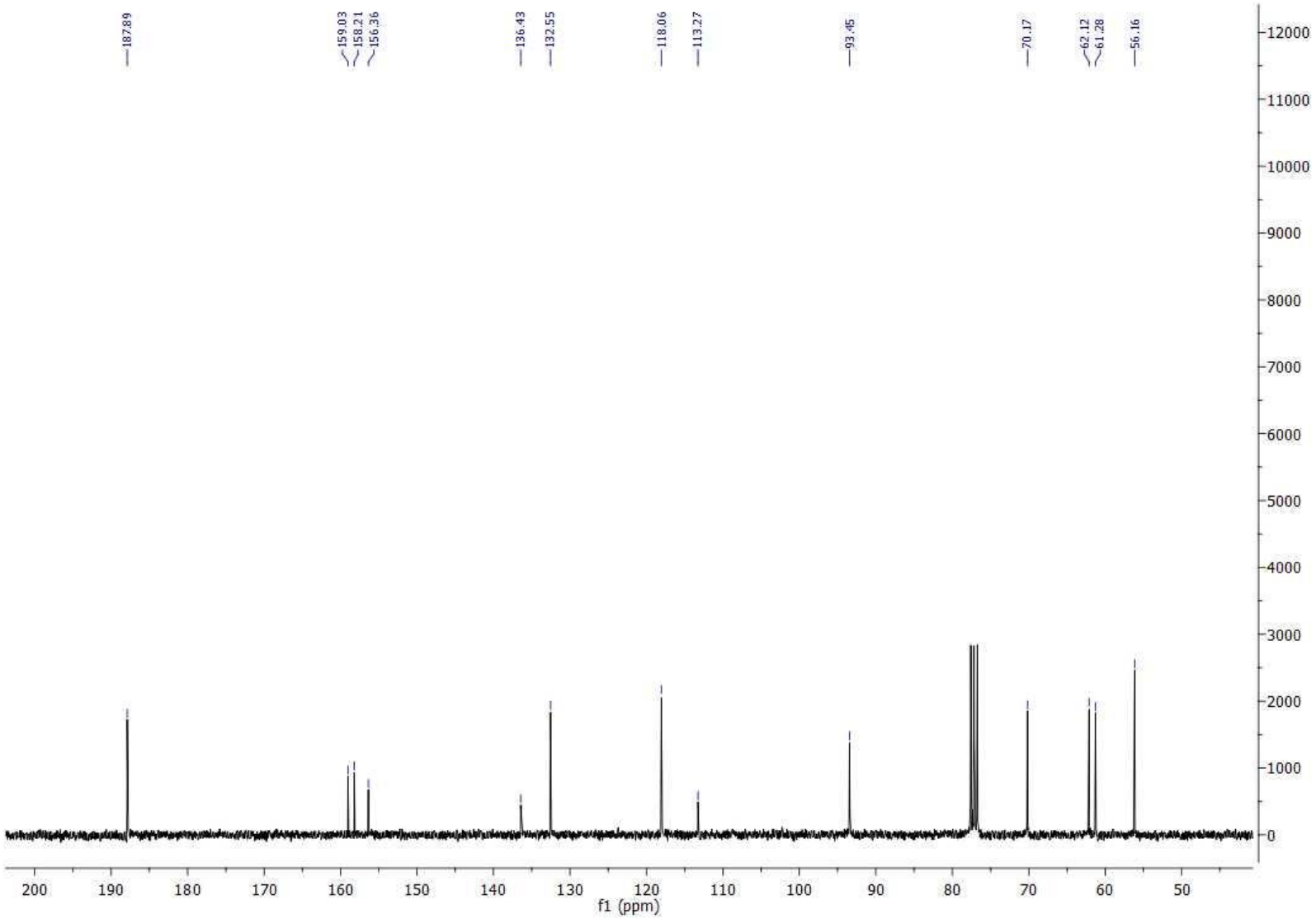
^{13}C NMR (75 MHz, $CDCl_3$) of **11k**



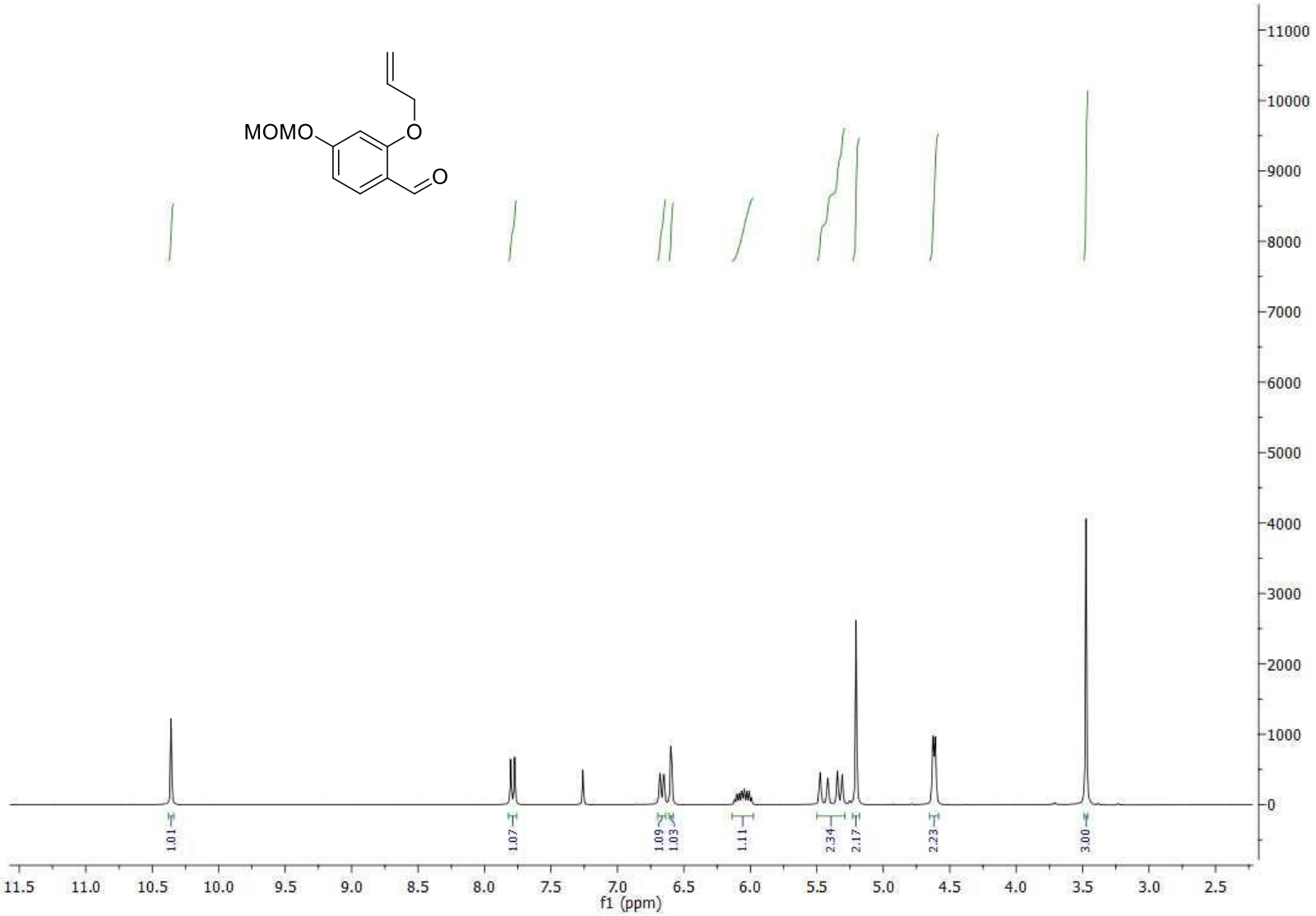
^{1}H NMR (300 MHz, $CDCl_3$) of **11l**



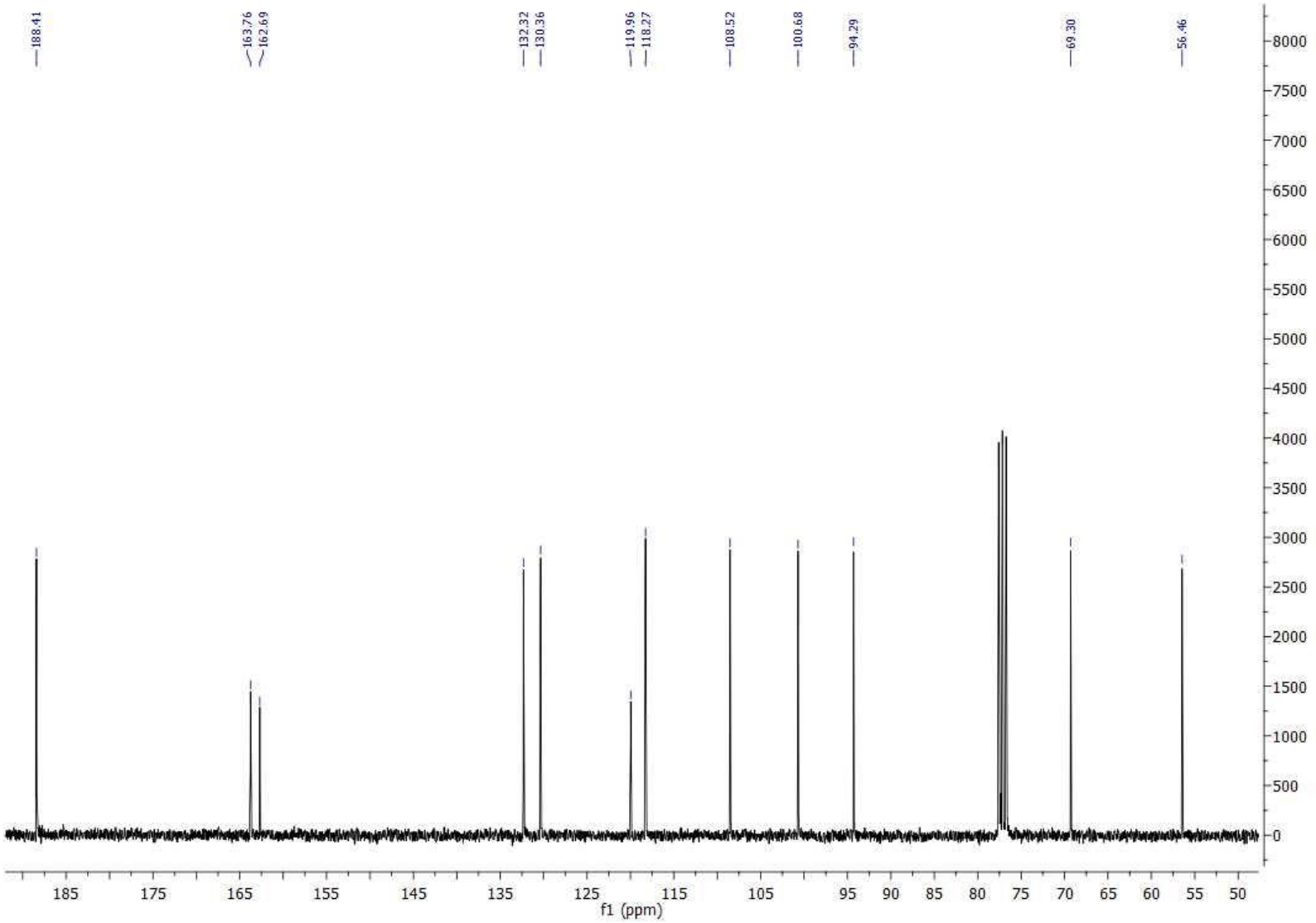
^{13}C NMR (75 MHz, $CDCl_3$) of **11l**



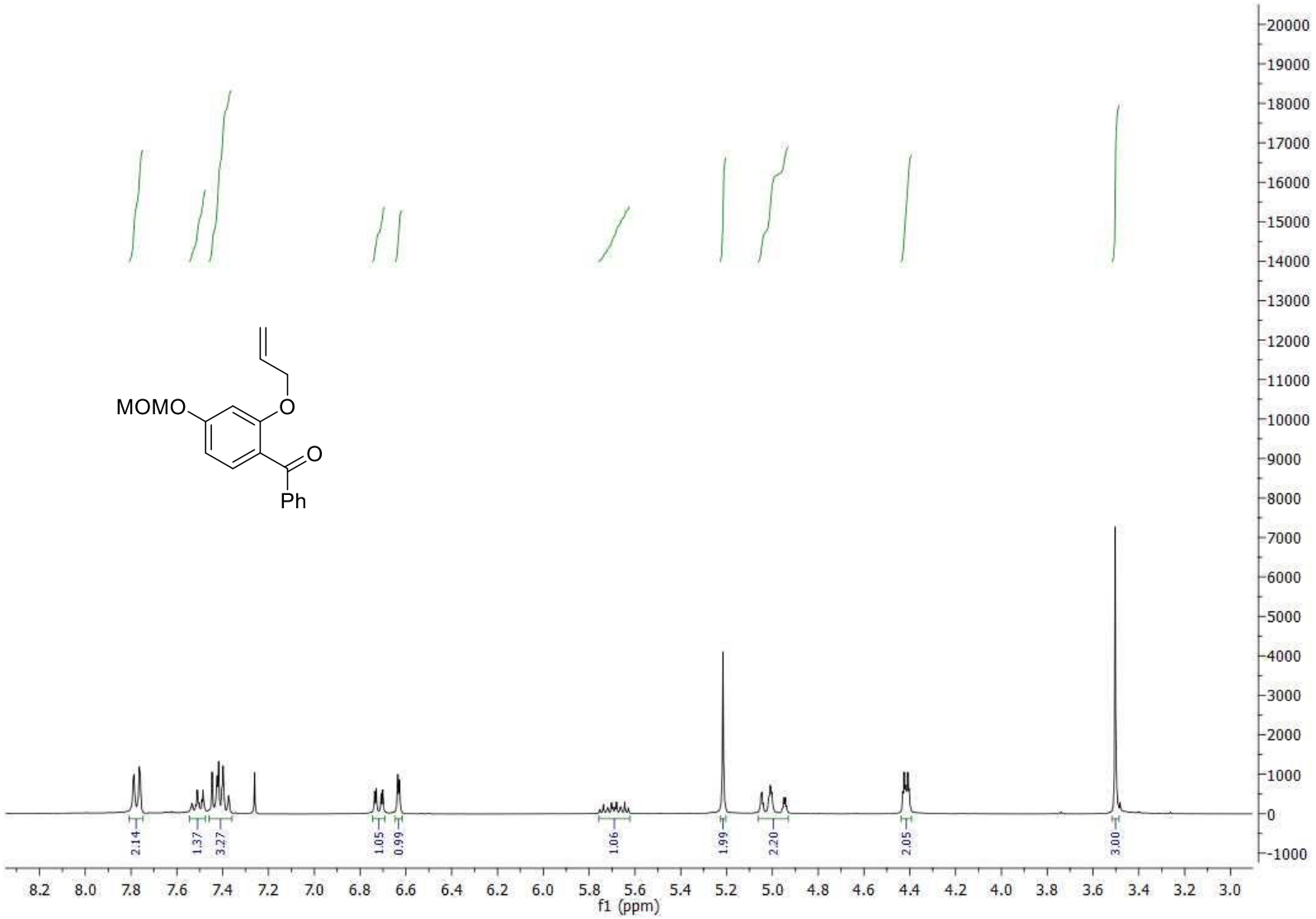
^{1}H NMR (300 MHz, $CDCl_3$) of **11o**



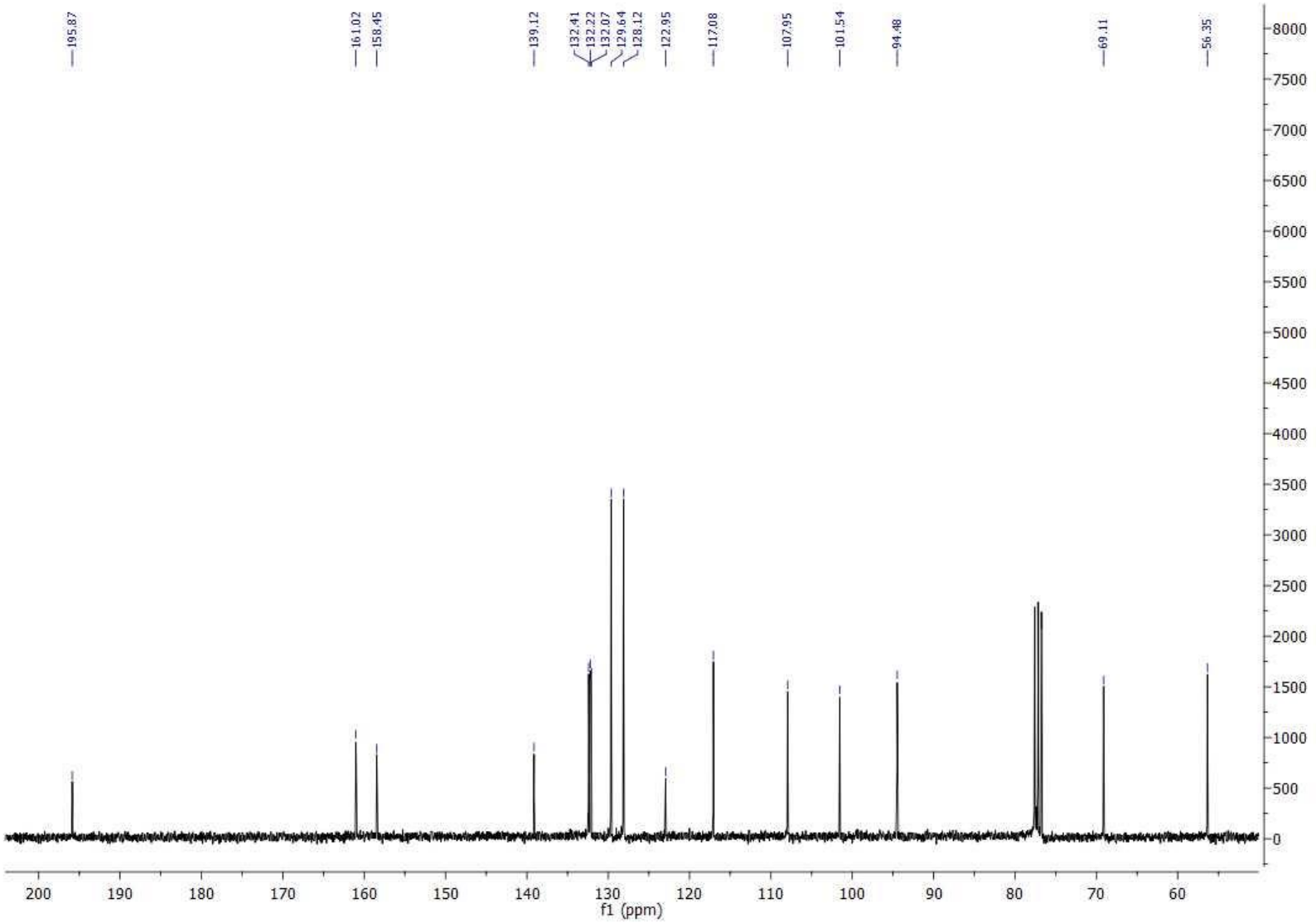
^{13}C NMR (75 MHz, $CDCl_3$) of **11o**



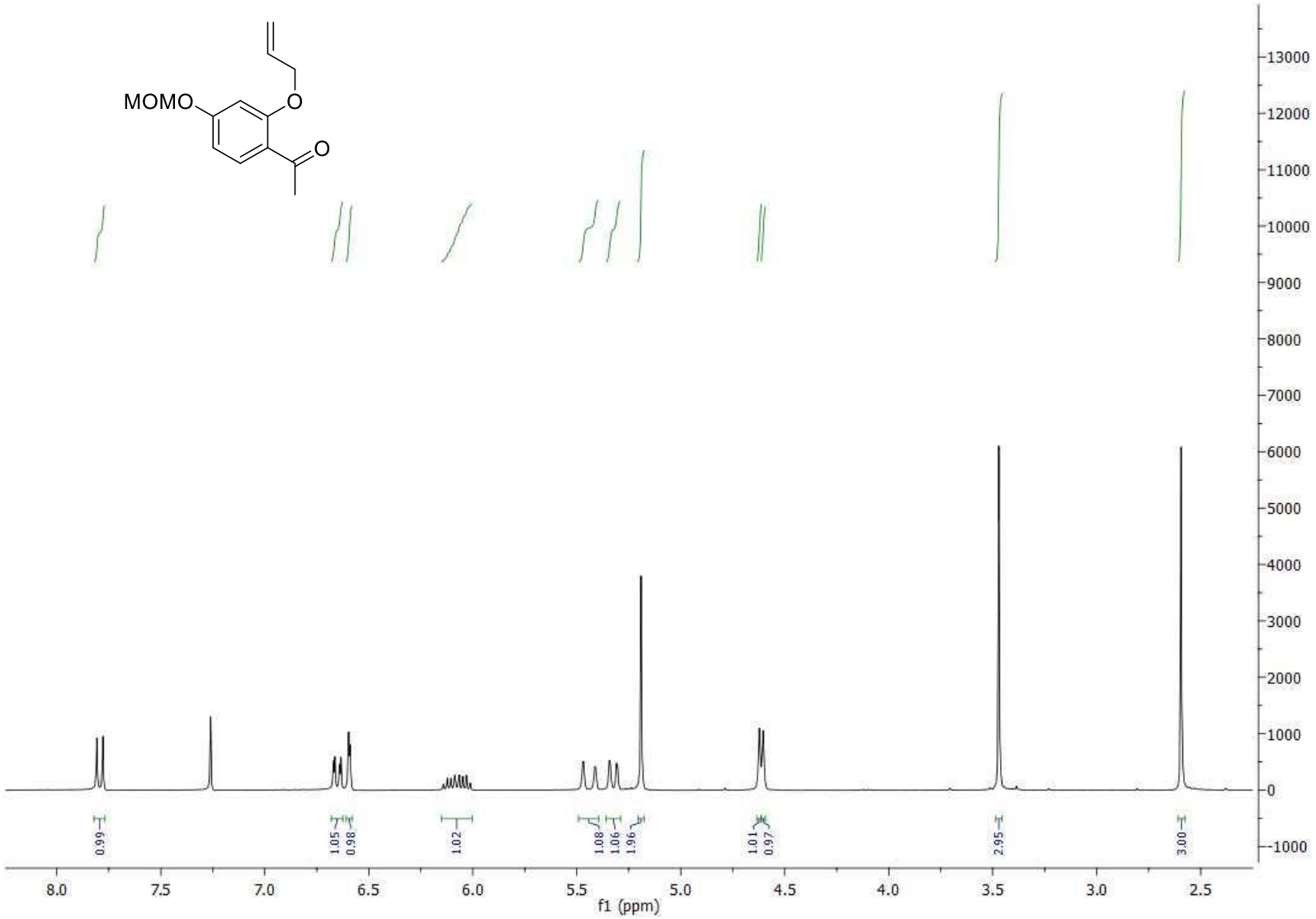
^{1}H NMR (300 MHz, $CDCl_3$) of **11p**



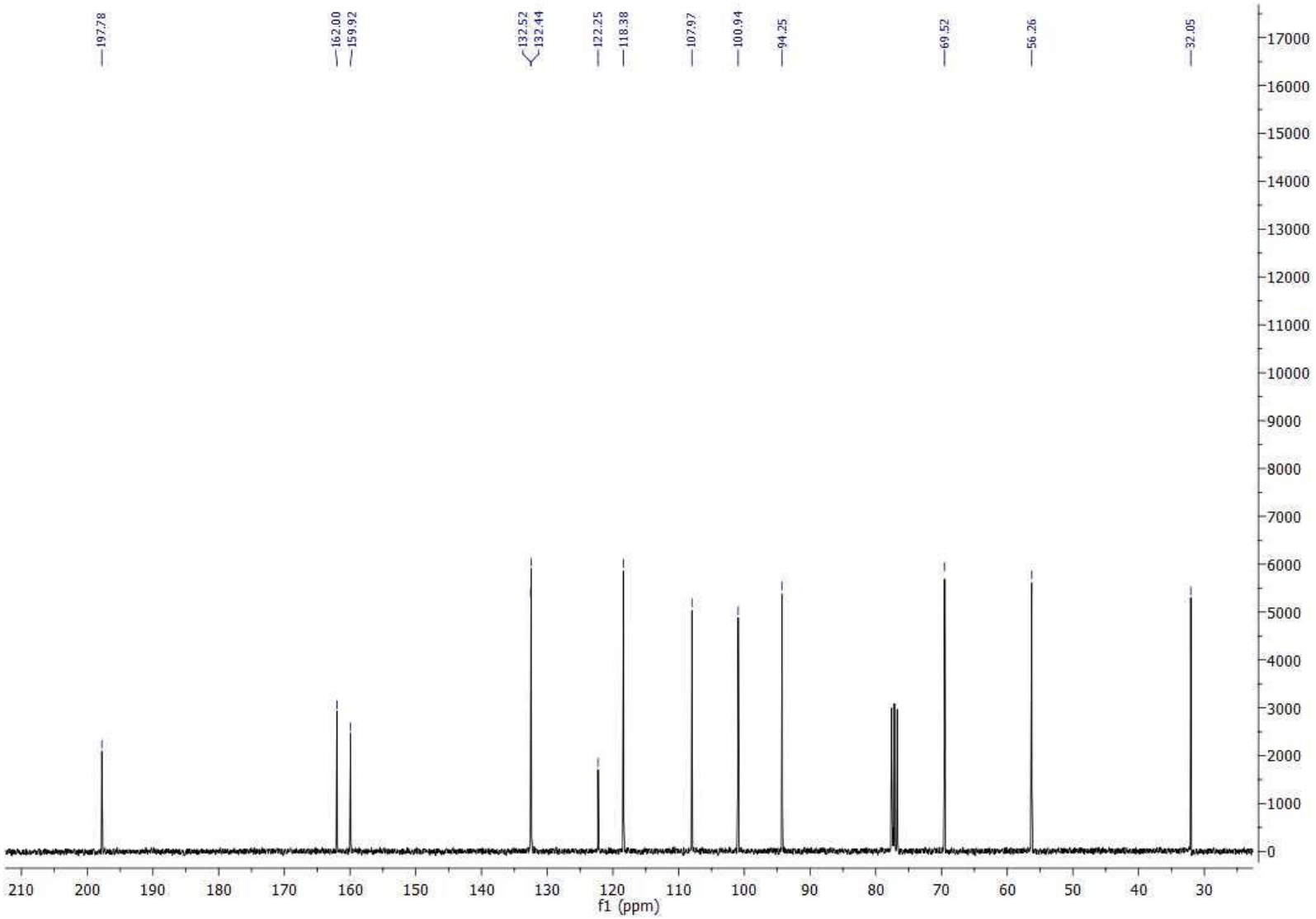
^{13}C NMR (75 MHz, $CDCl_3$) of **11p**



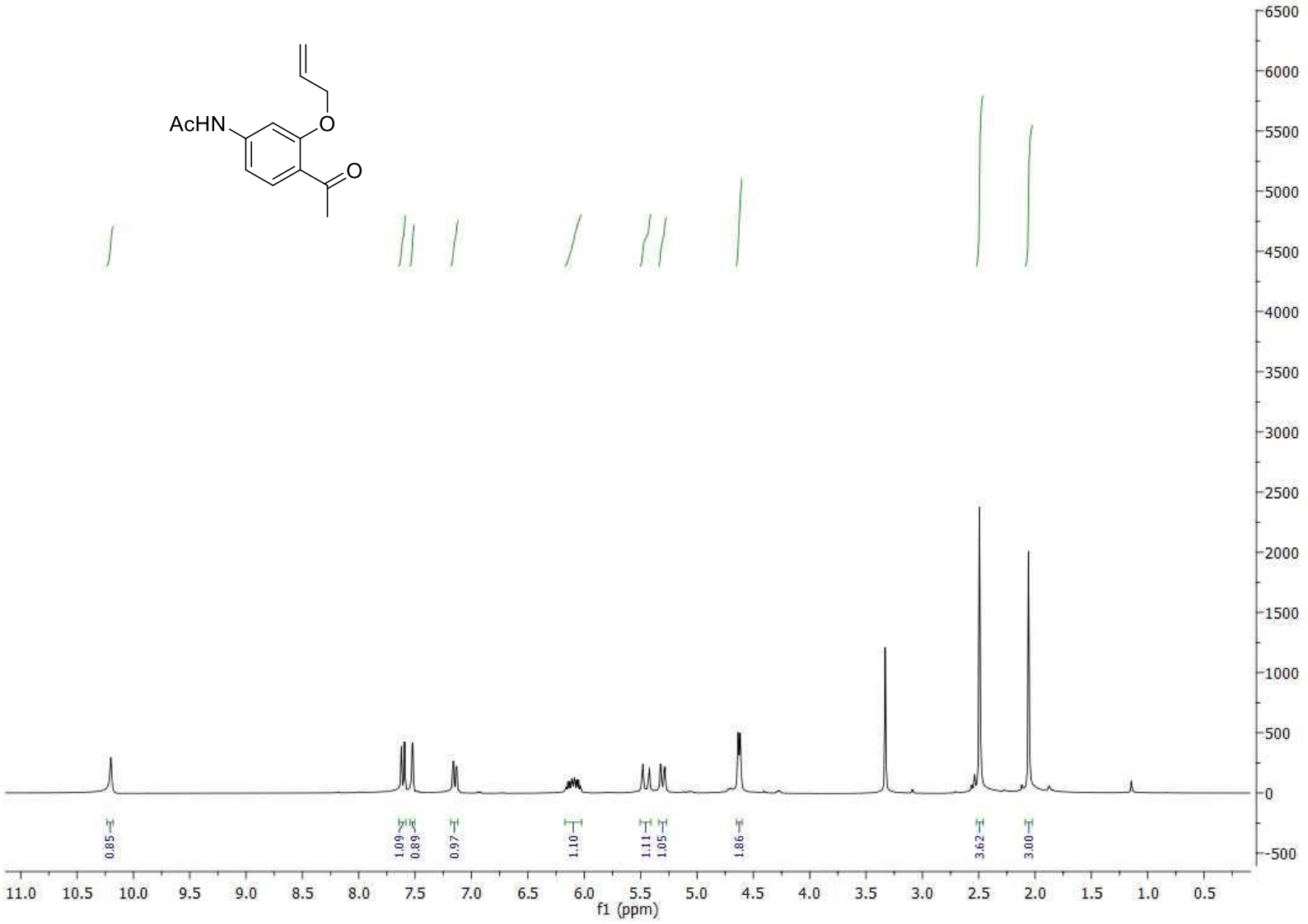
^{1}H NMR (300 MHz, $CDCl_3$) of **11q**



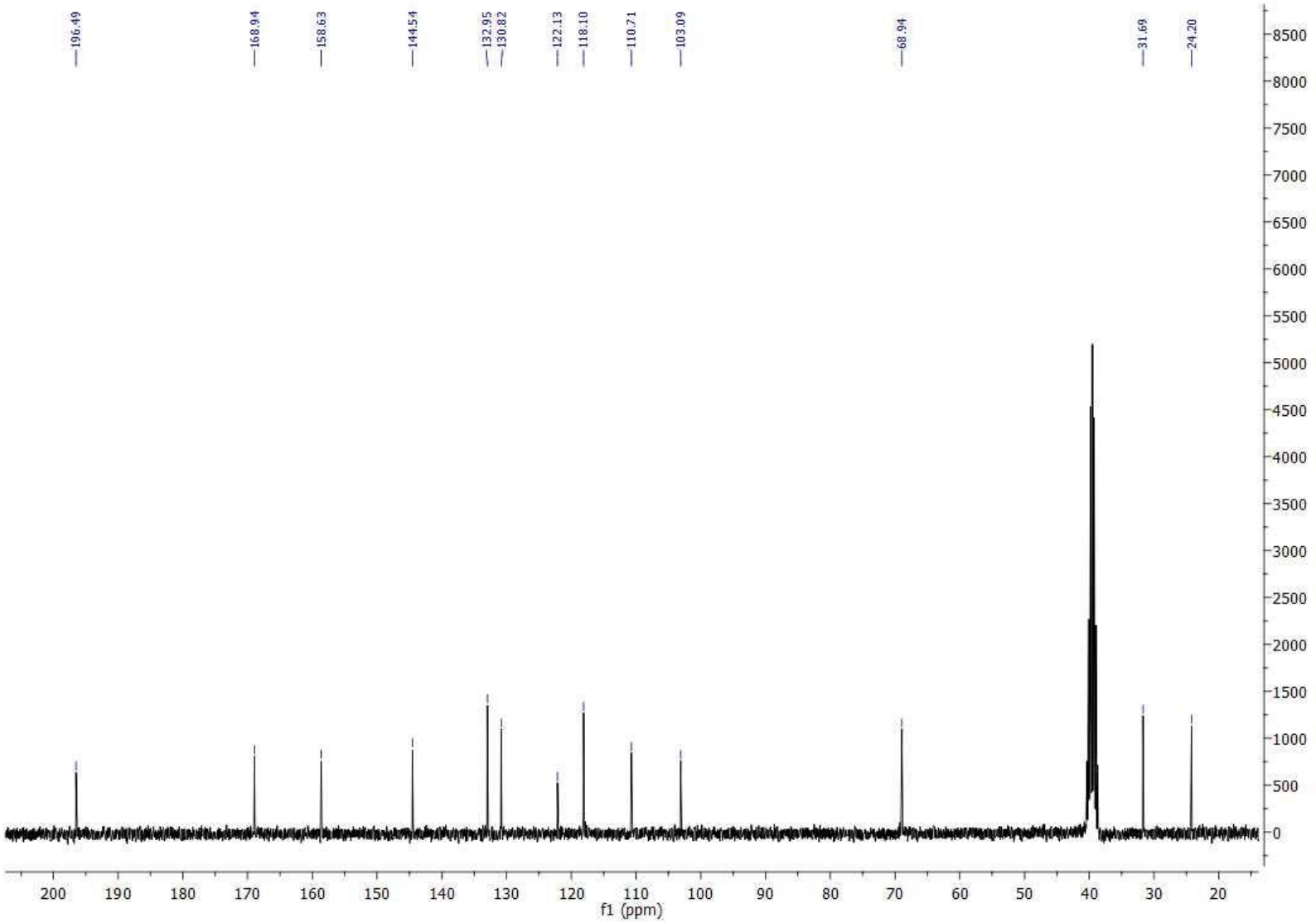
^{13}C NMR (75 MHz, $CDCl_3$) of **11q**



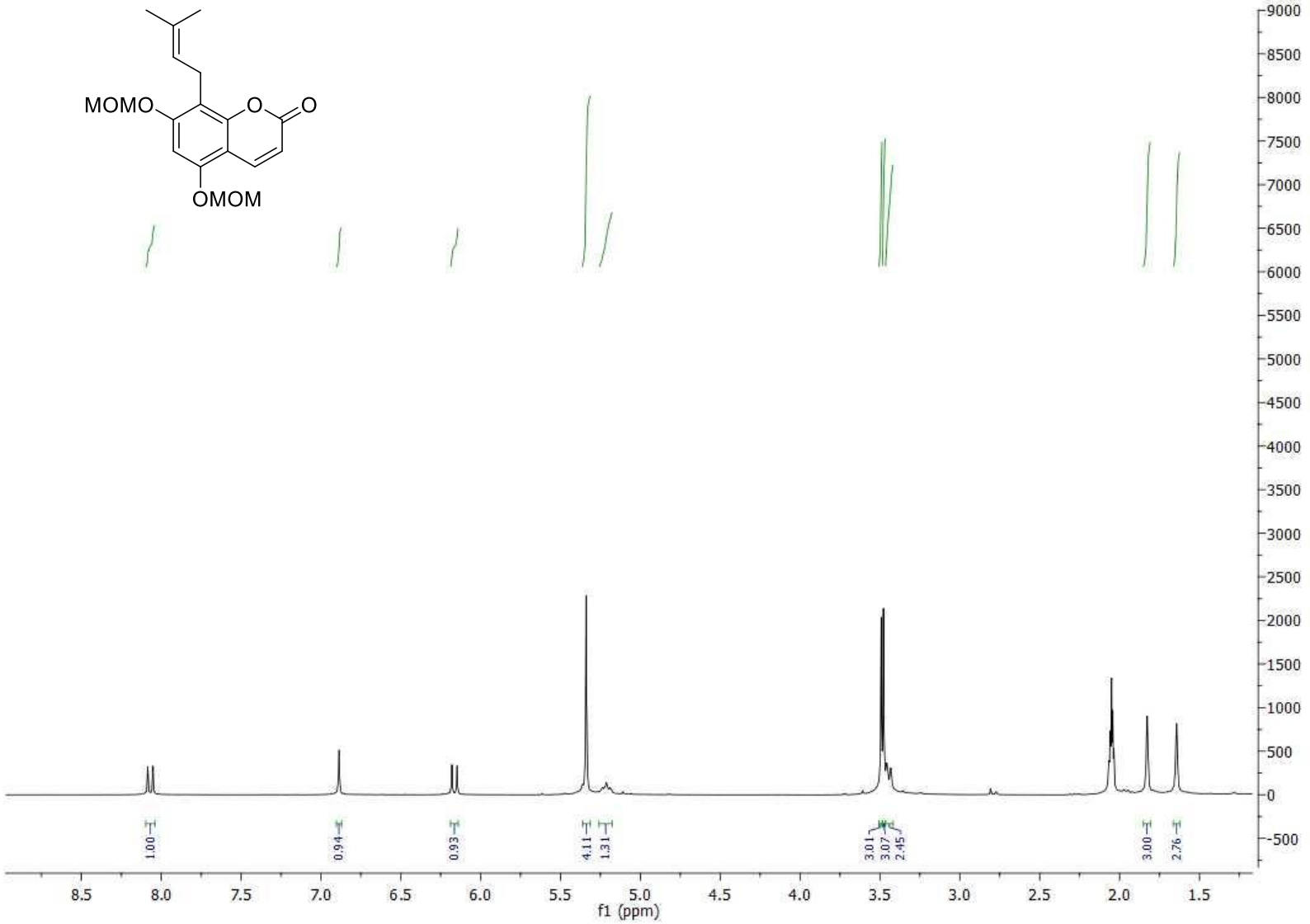
[1]H NMR (300 MHz, DMSO-*d*6) of **11r**



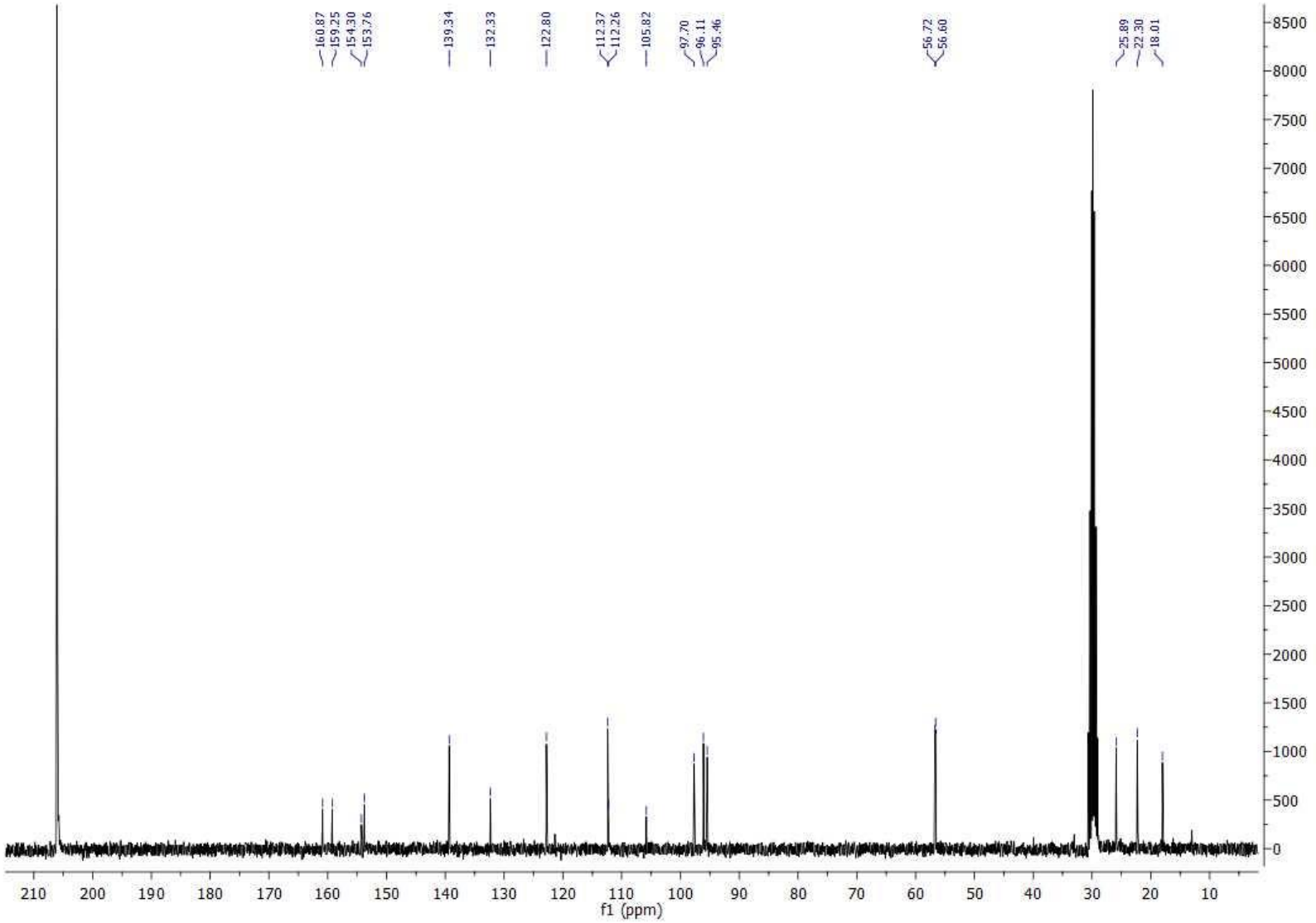
^{13}C NMR (75 MHz, DMSO-d_6) of **11r**



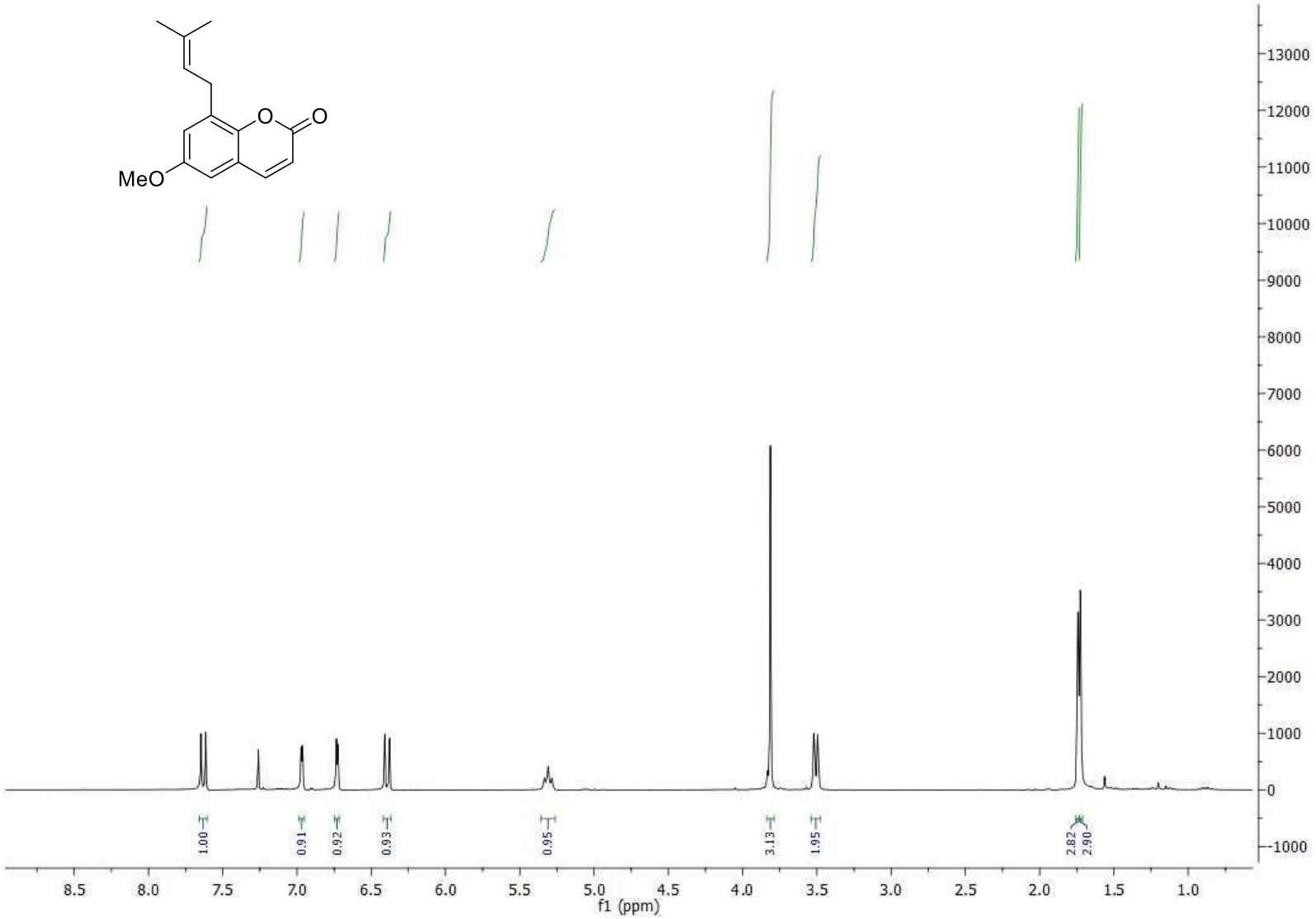
^{1}H NMR (300 MHz, acetone-d_6) of **7a**



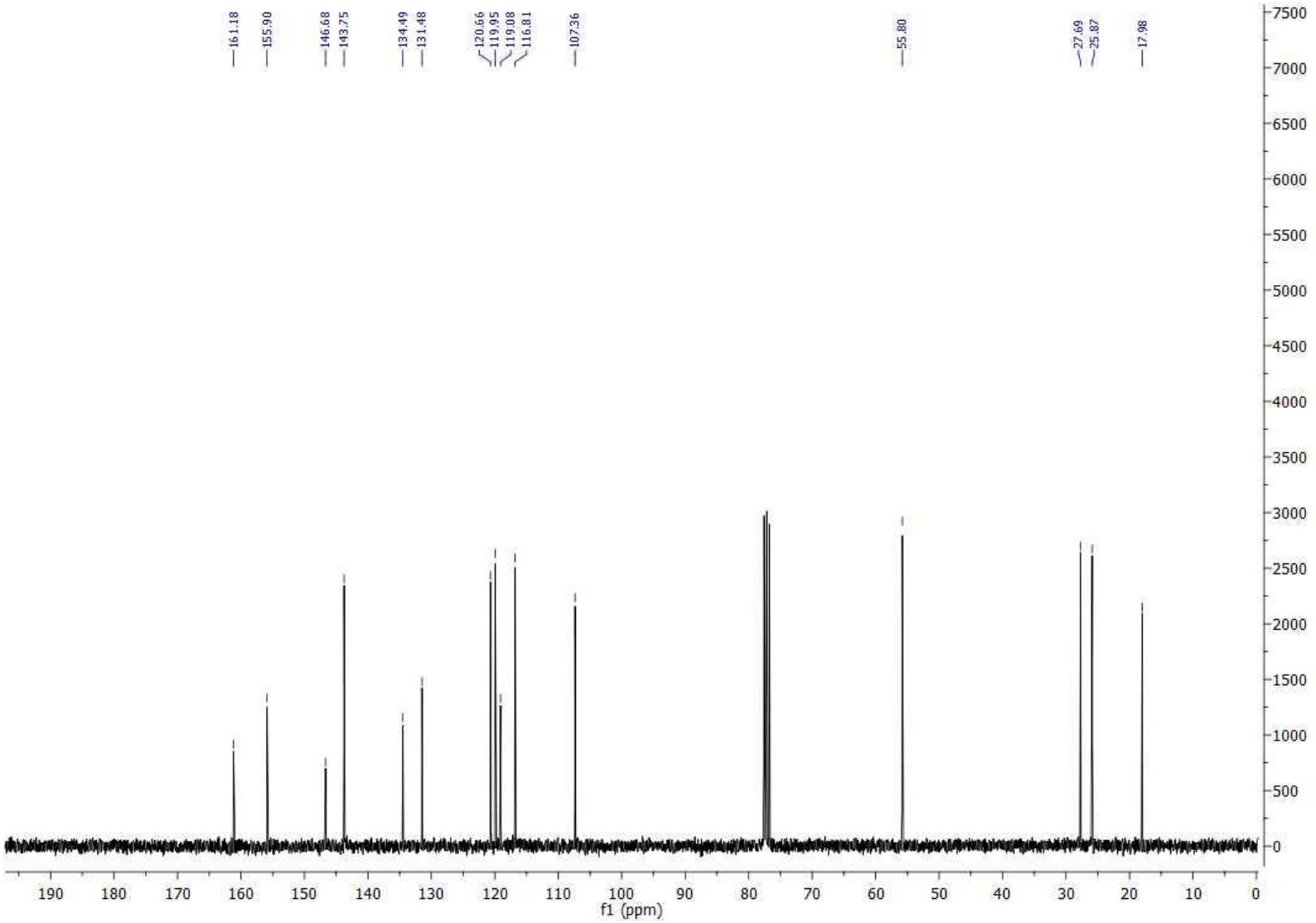
^{13}C NMR (75 MHz, acetone-d_6) of **7a**



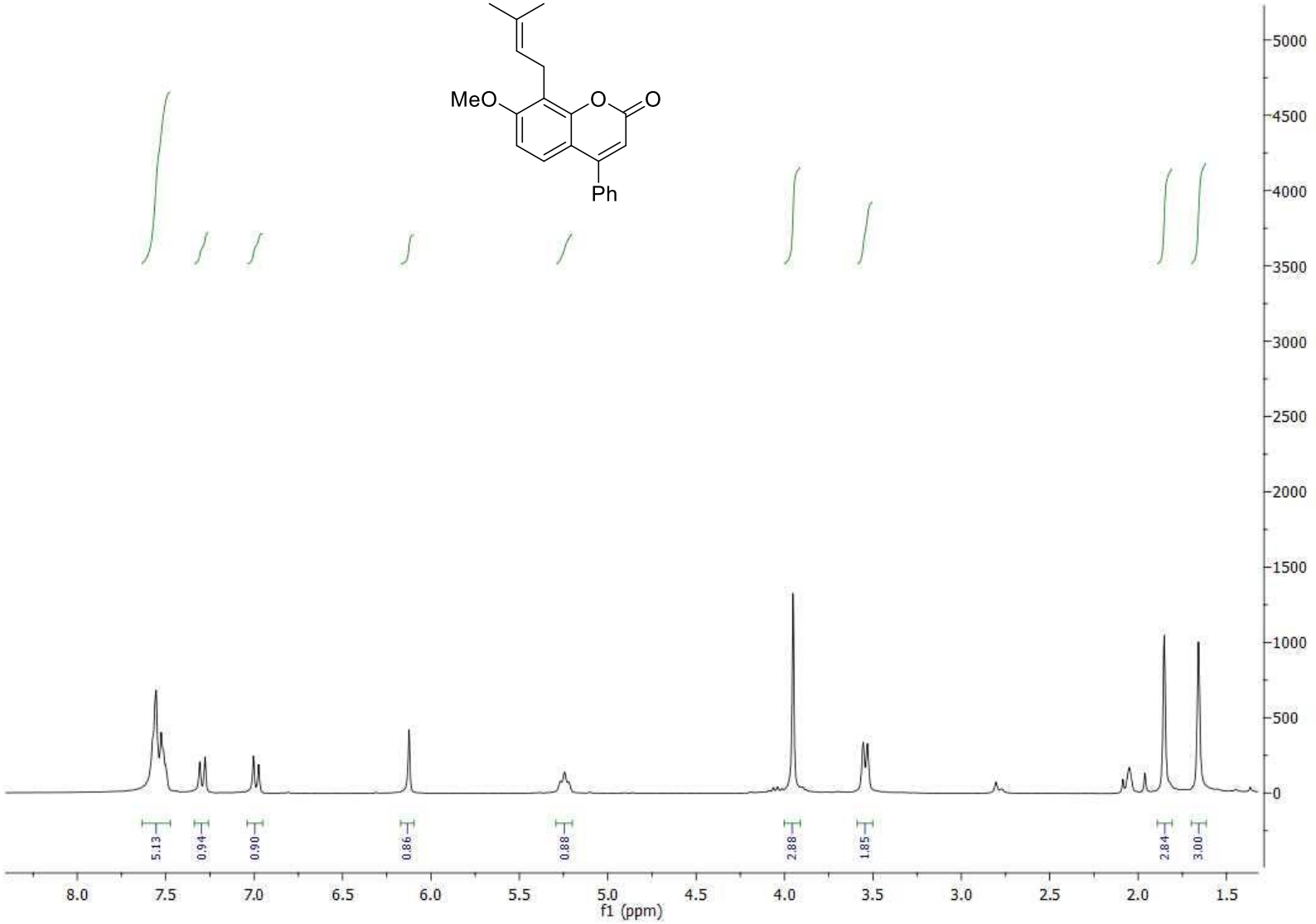
^{1}H NMR (300 MHz, $CDCl_3$) of **7e**



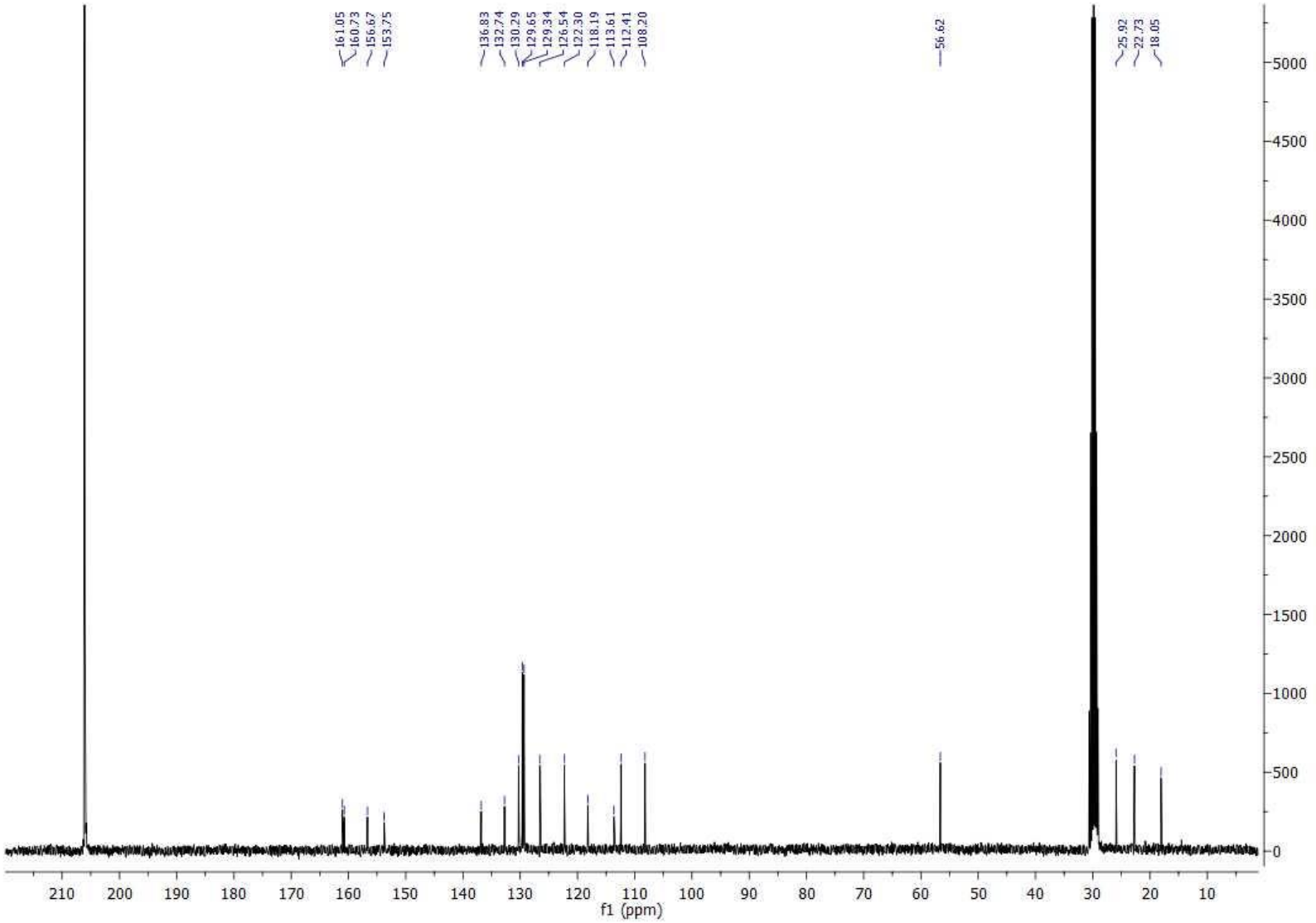
^{13}C NMR (75 MHz, $CDCl_3$) of **7e**



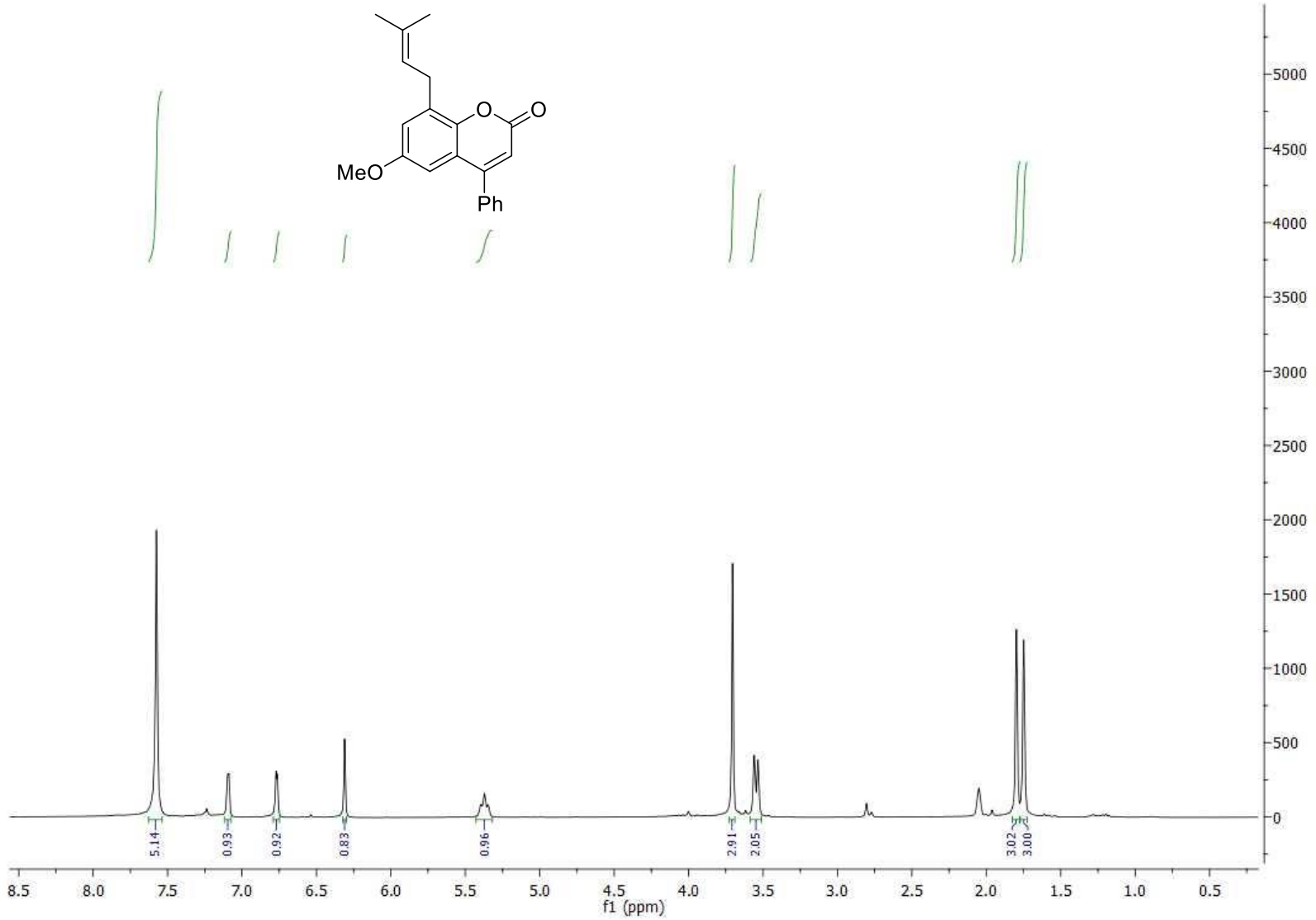
^{1}H NMR (300 MHz, acetone-d_6) of **7f**



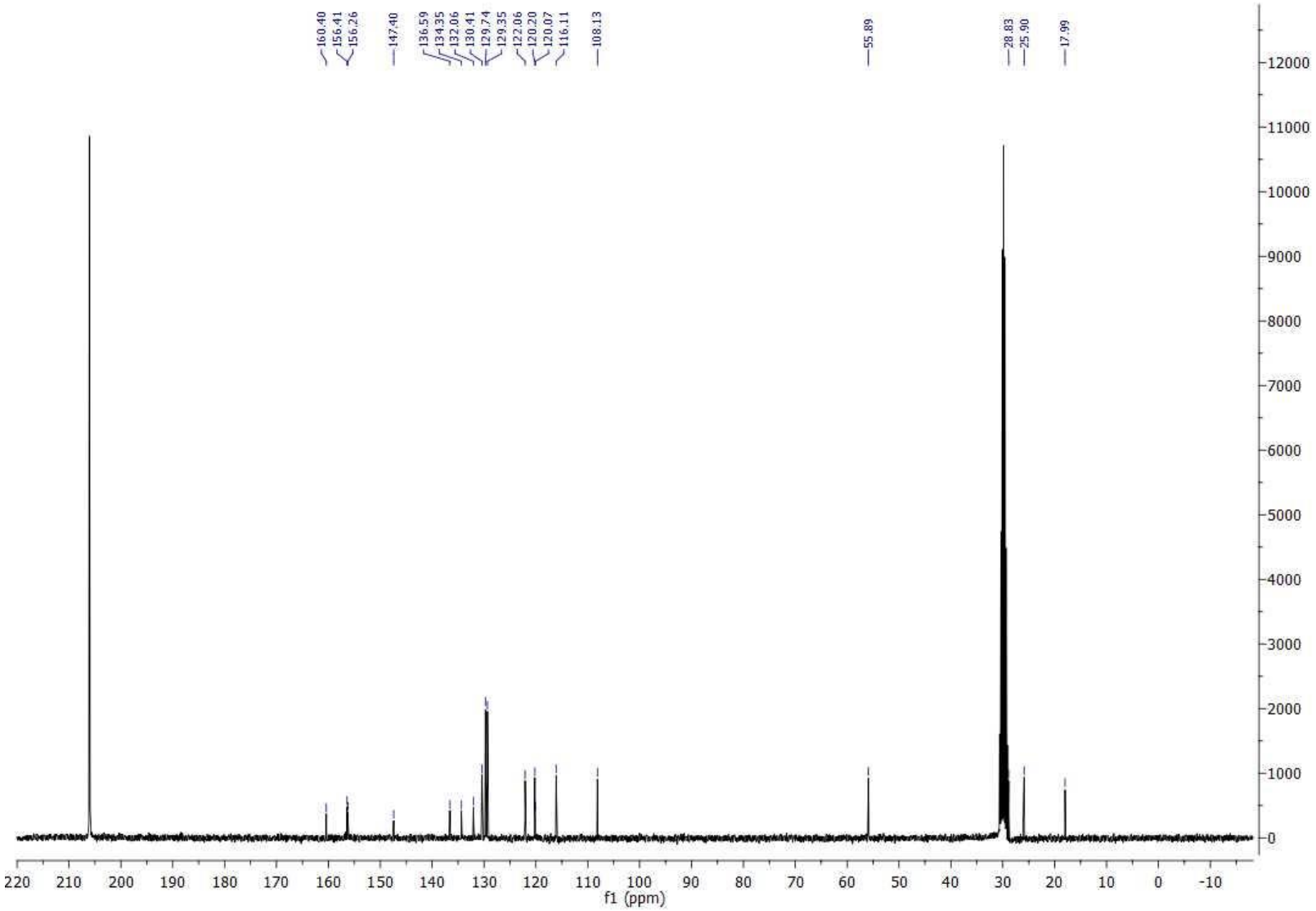
^{13}C NMR (75 MHz, acetone-d_6) of **7f**



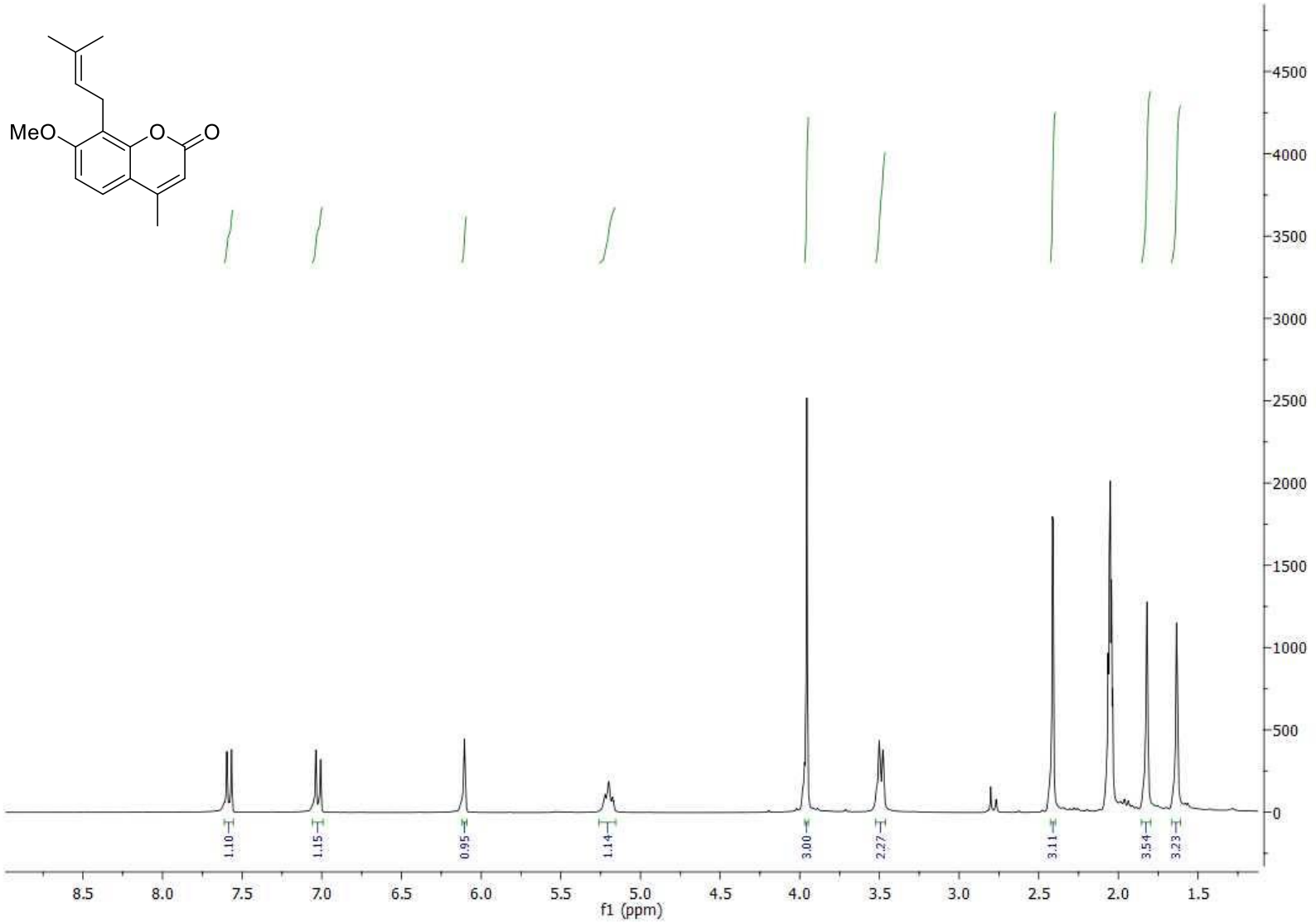
^{1}H NMR (300 MHz, acetone-d_6) of **7g**



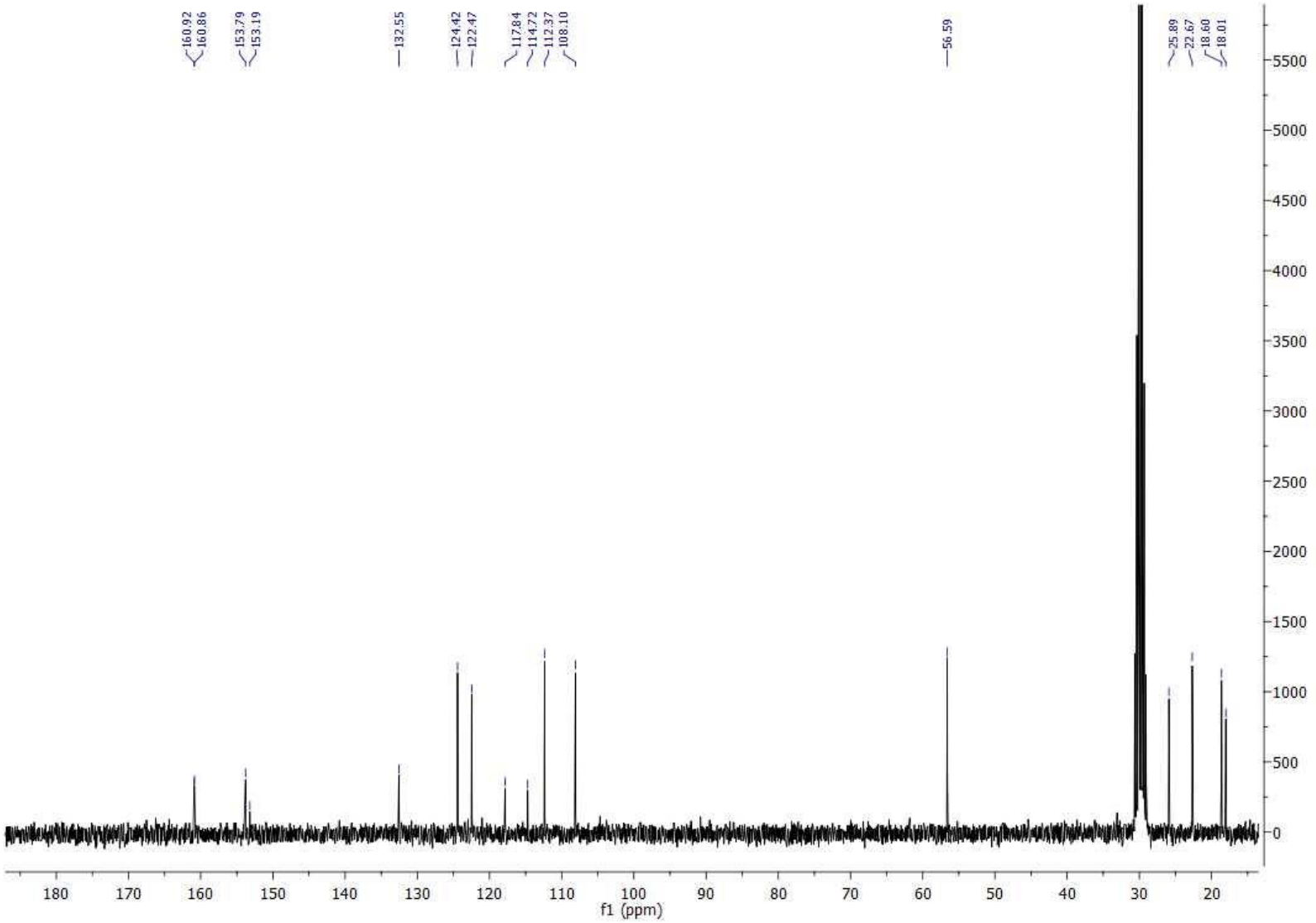
^{13}C NMR (75 MHz, acetone-d_6) of **7g**



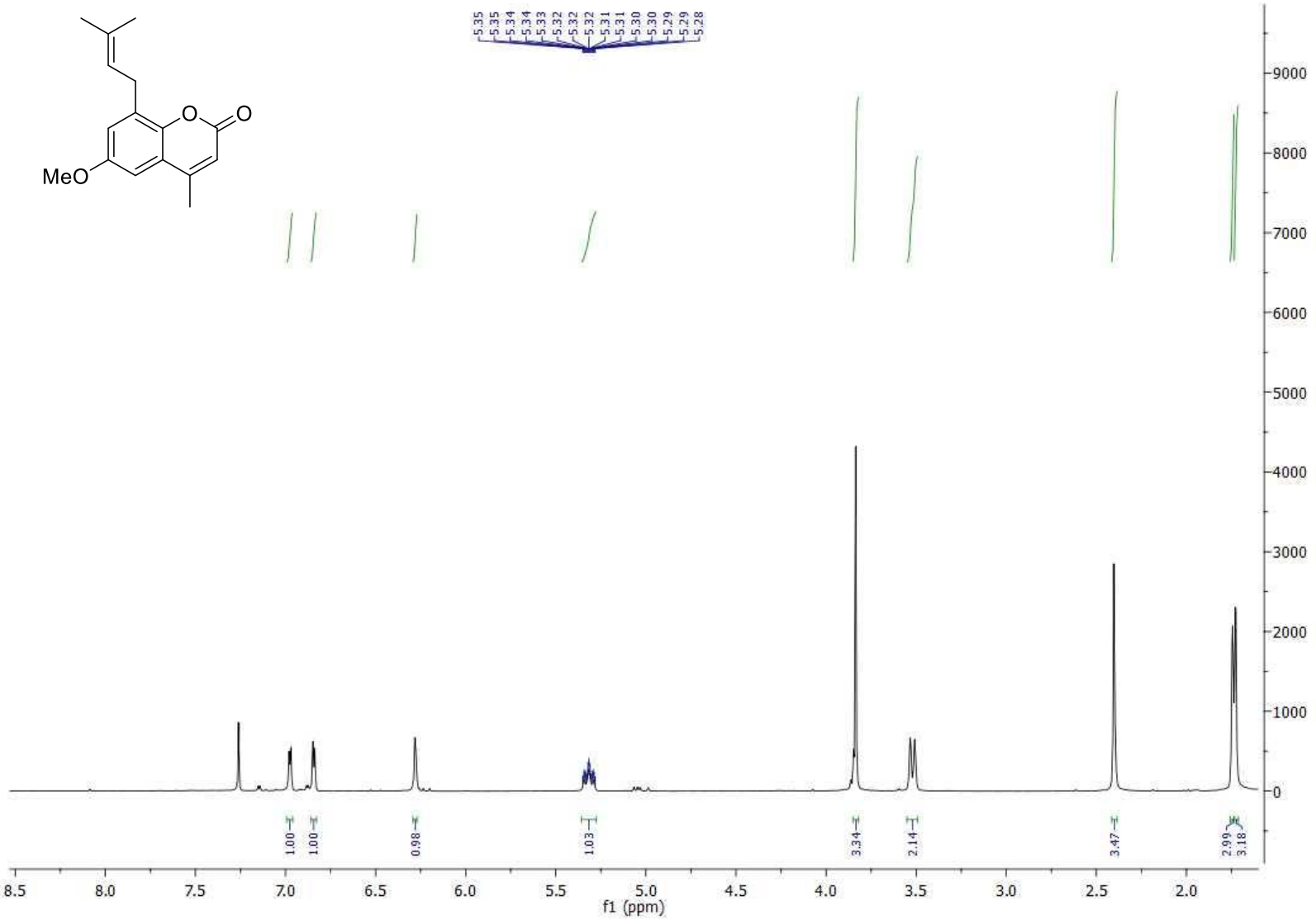
^{1}H NMR (300 MHz, acetone-d_6) of **7h**



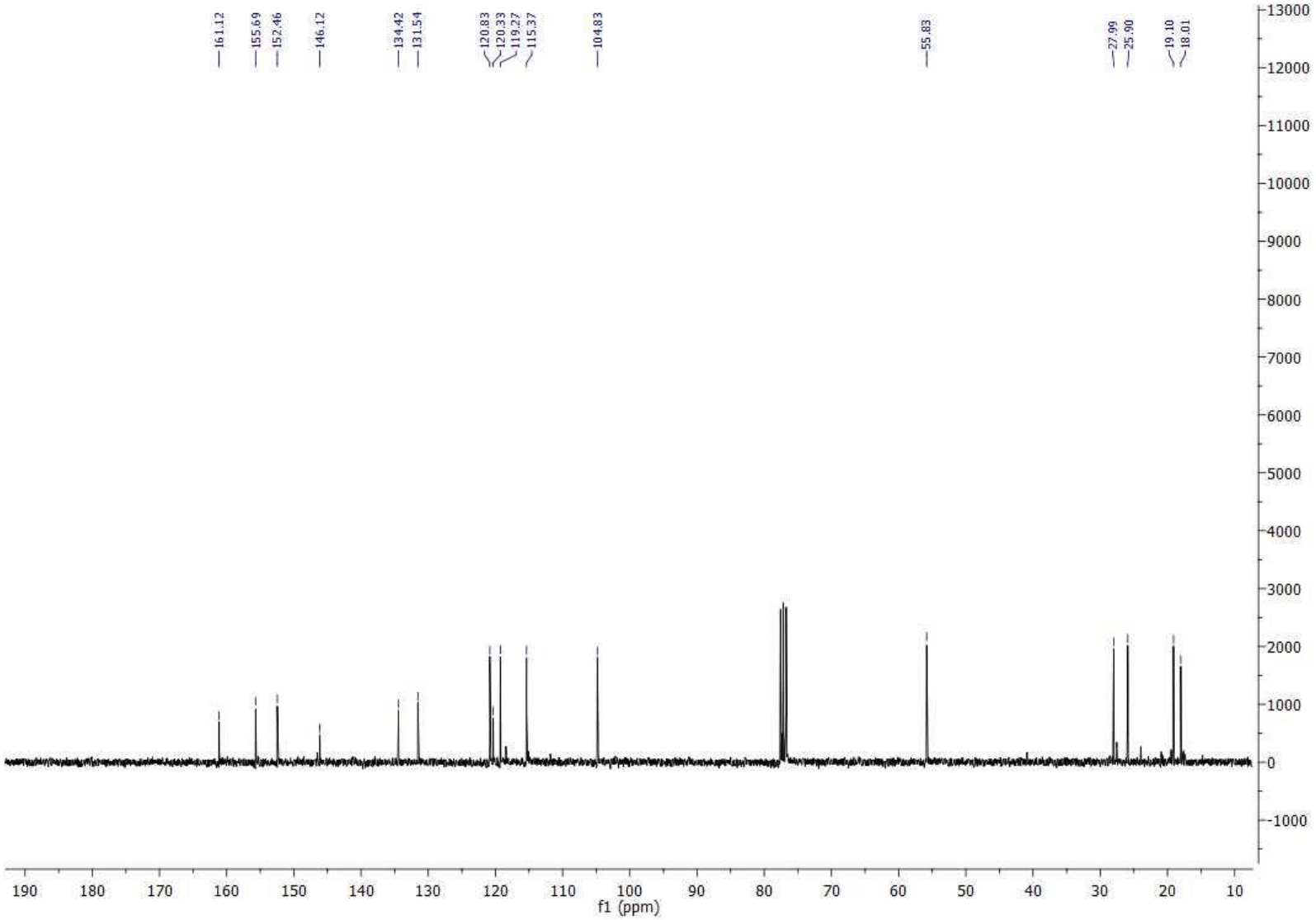
^{13}C NMR (75 MHz, acetone-d_6) of **7h**



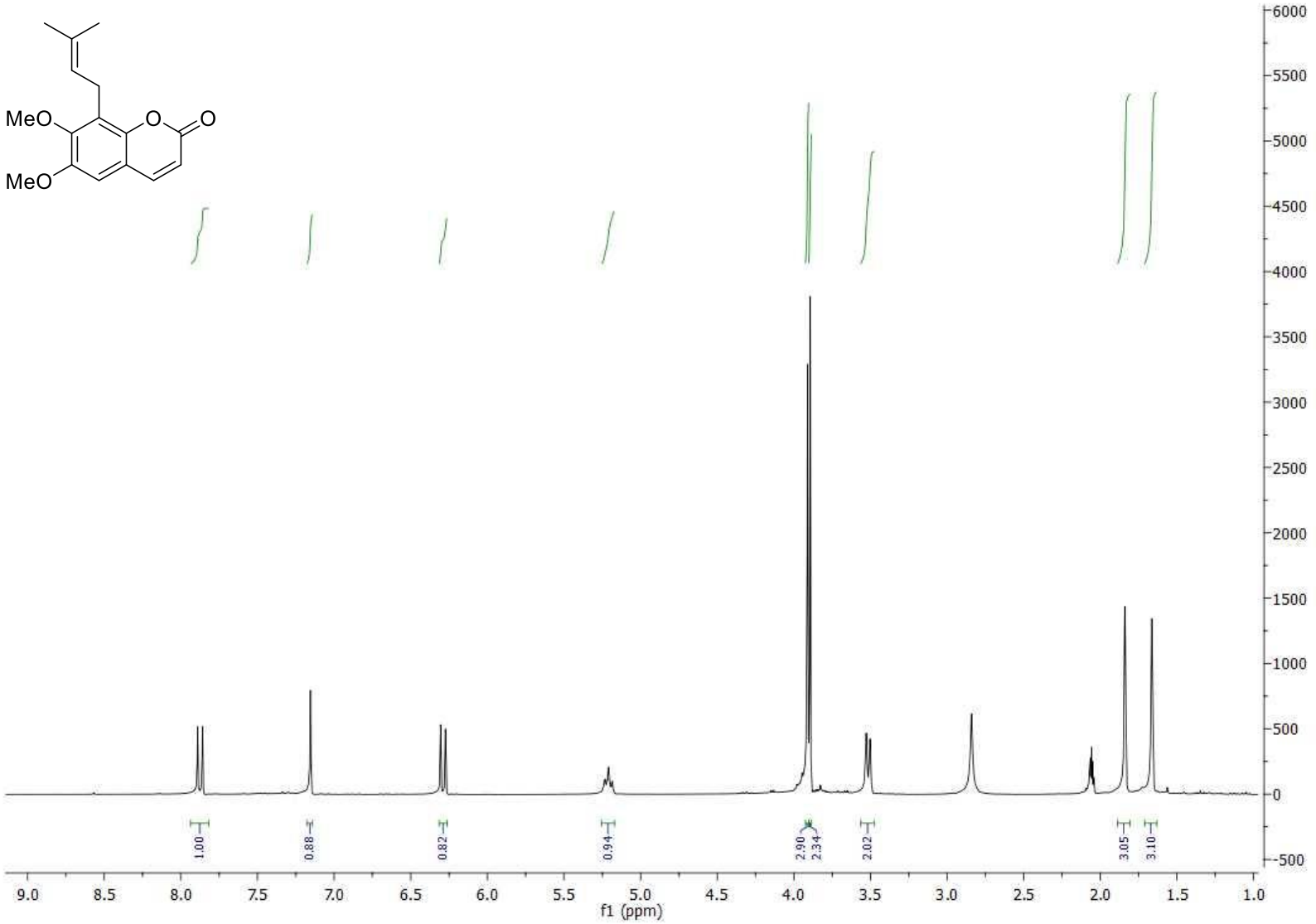
^{1}H NMR (300 MHz, $CDCl_3$) of **7i**



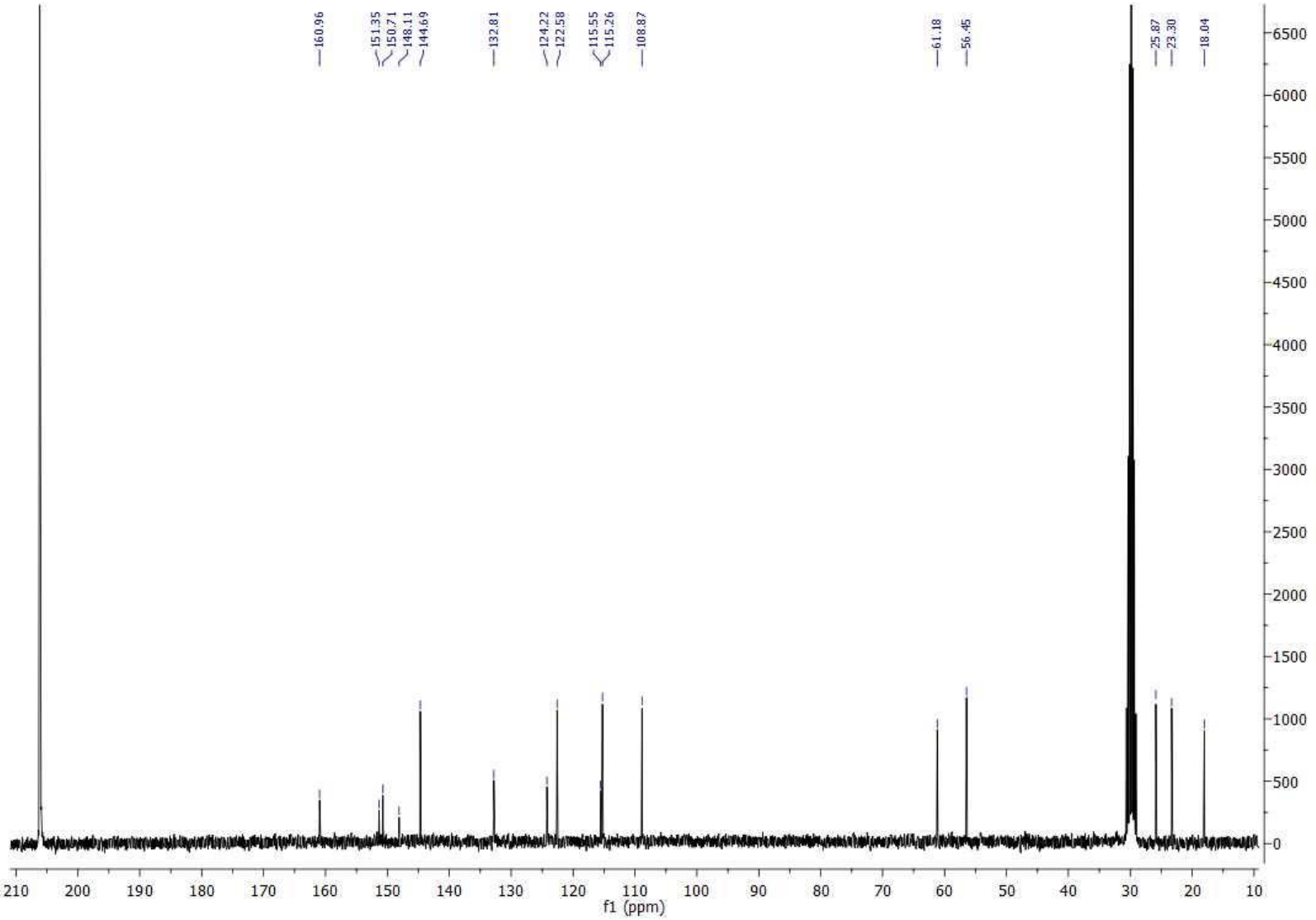
^{13}C NMR (75 MHz, $CDCl_3$) of **7i**



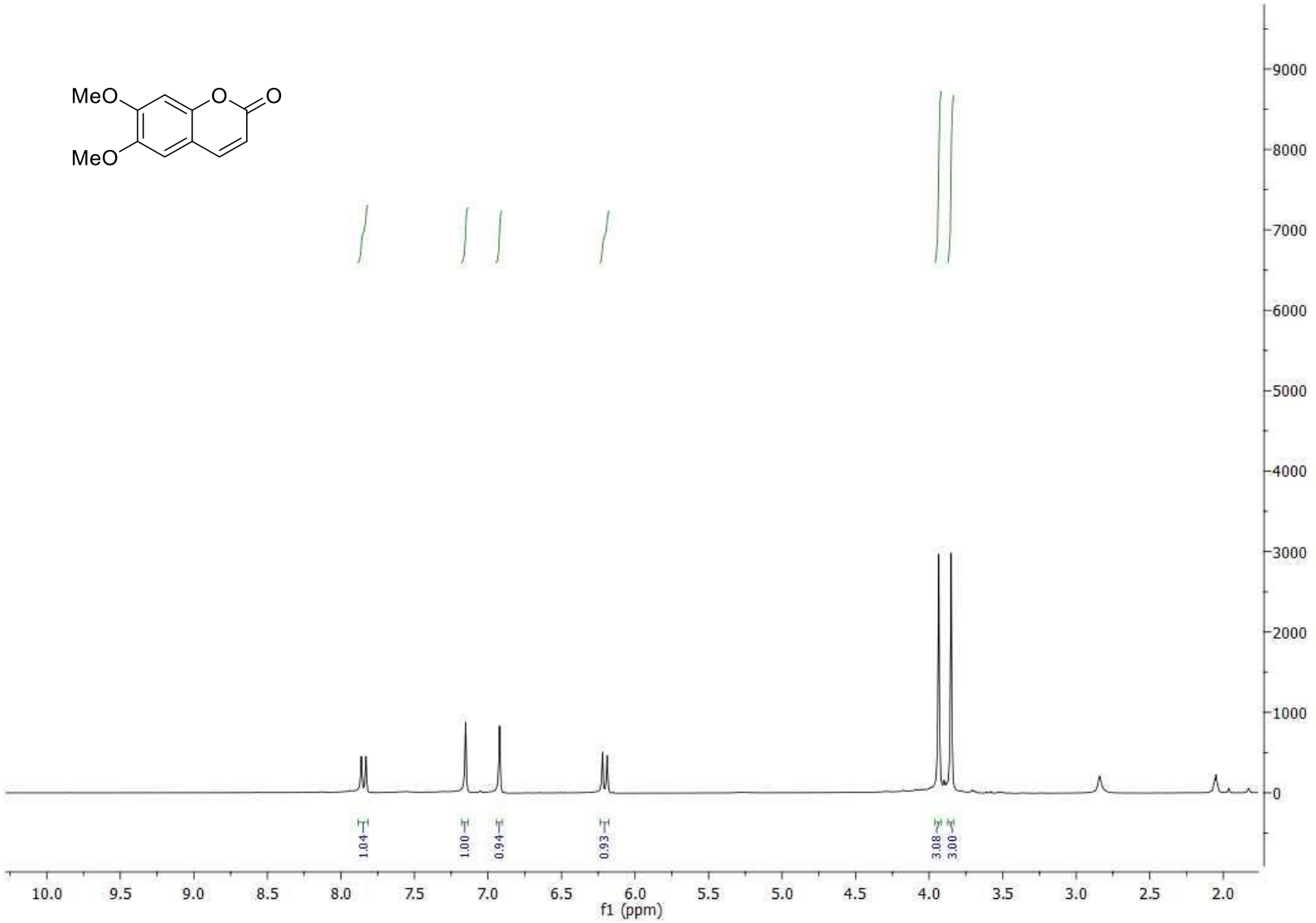
^{1}H NMR (300 MHz, acetone-d_6) of **7j**



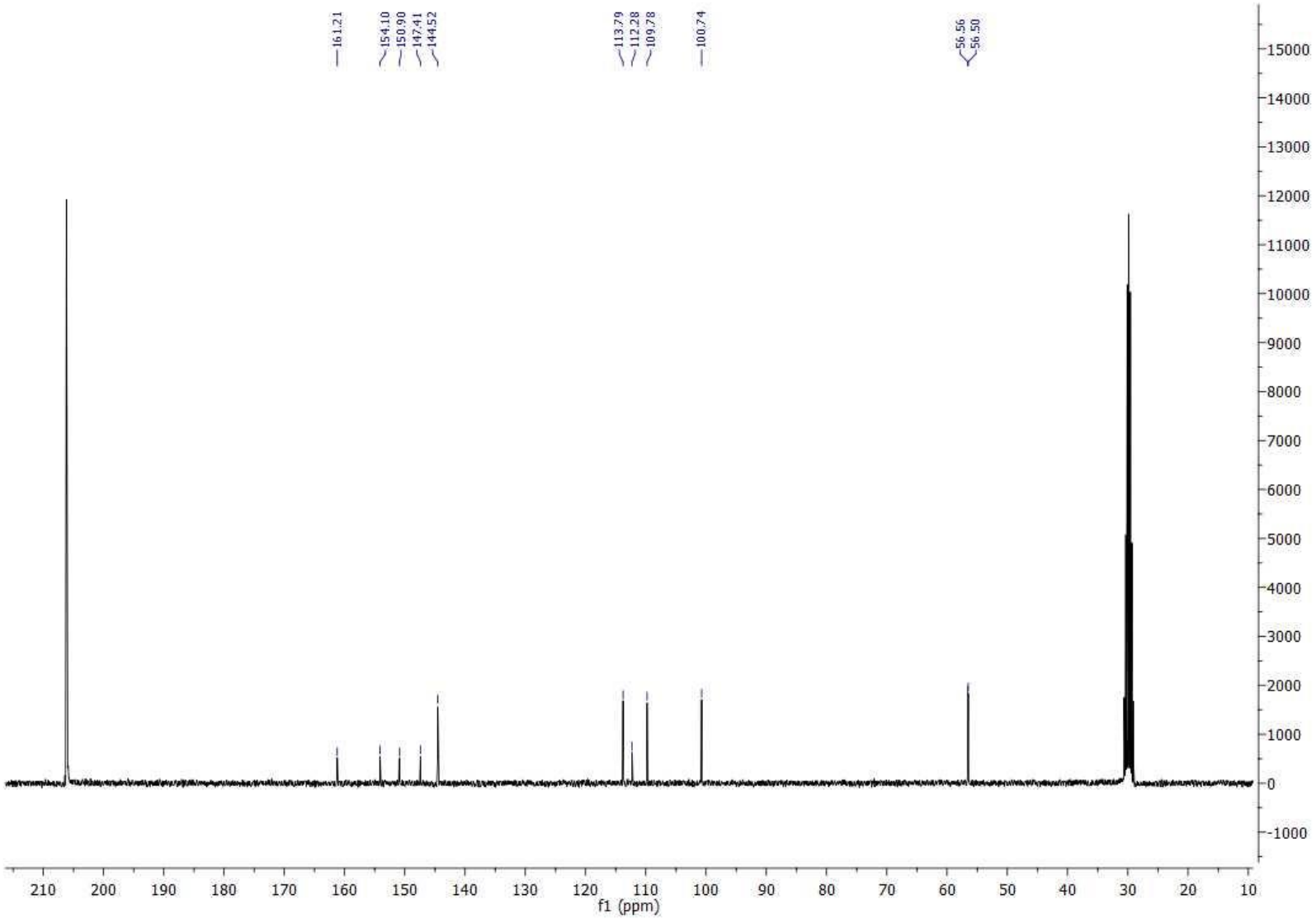
^{13}C NMR (75 MHz, acetone-d_6) of **7j**



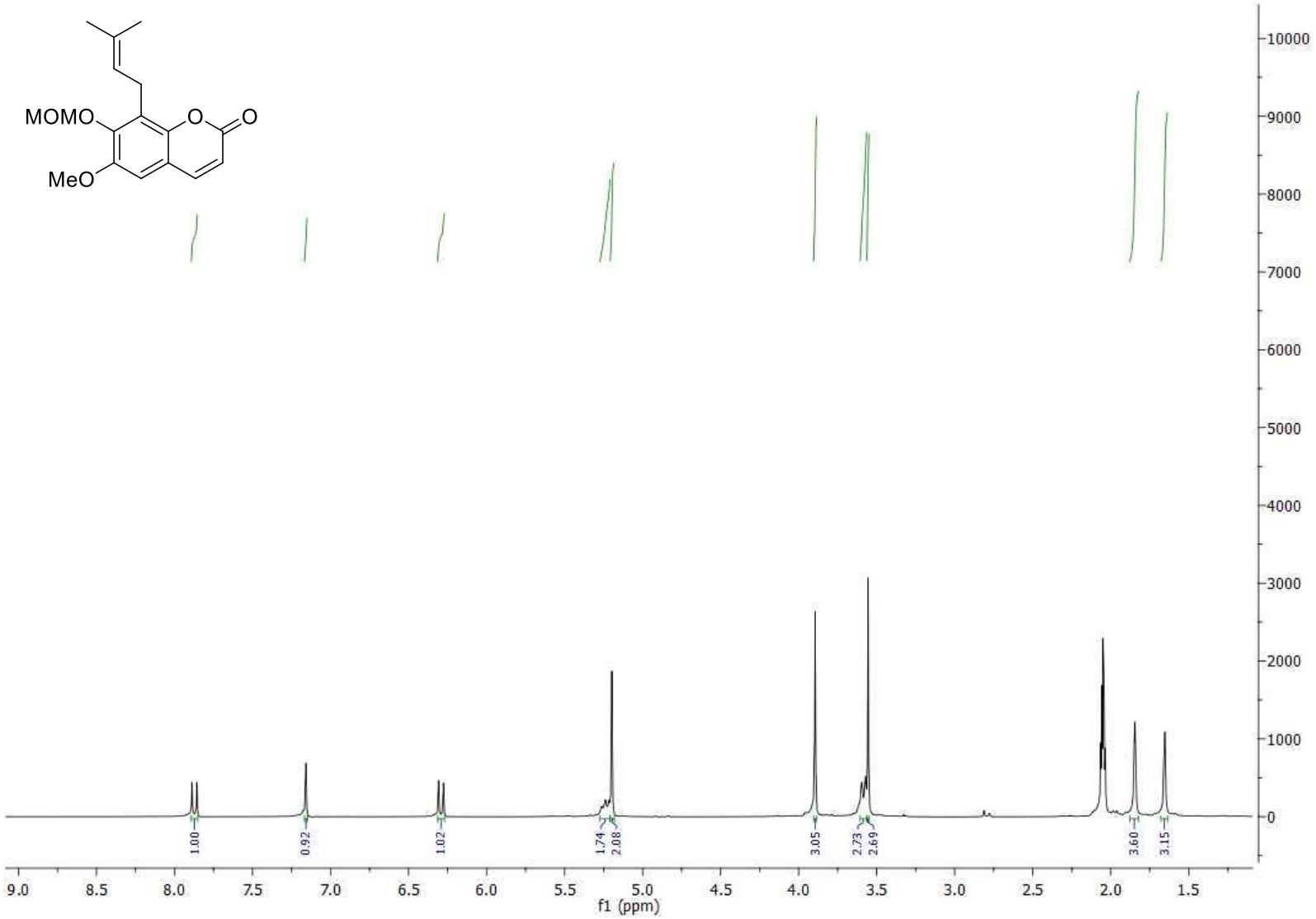
^{1}H NMR (300 MHz, acetone-d_6) of **8j**



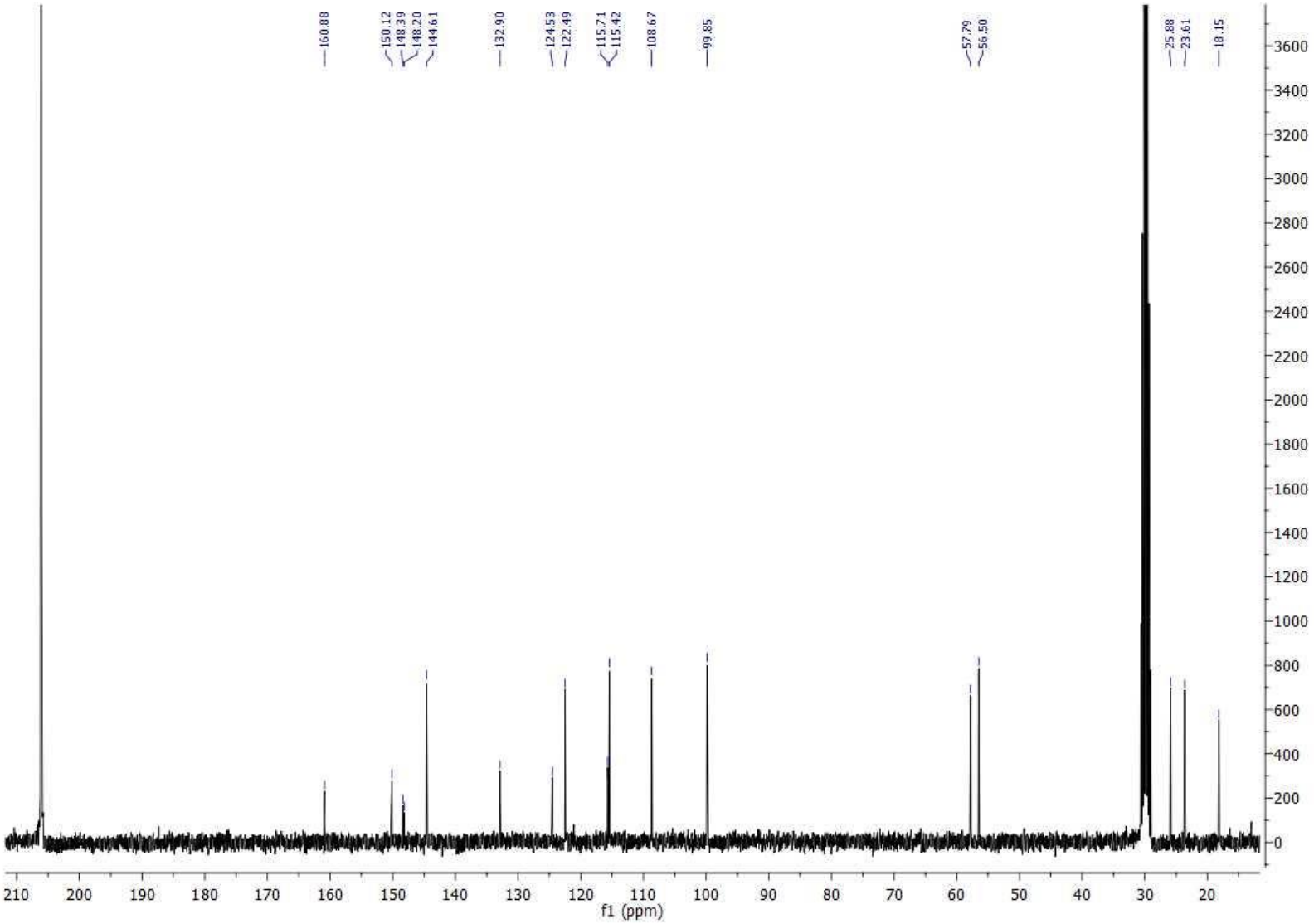
^{13}C NMR (75 MHz, acetone-d_6) of **8j**



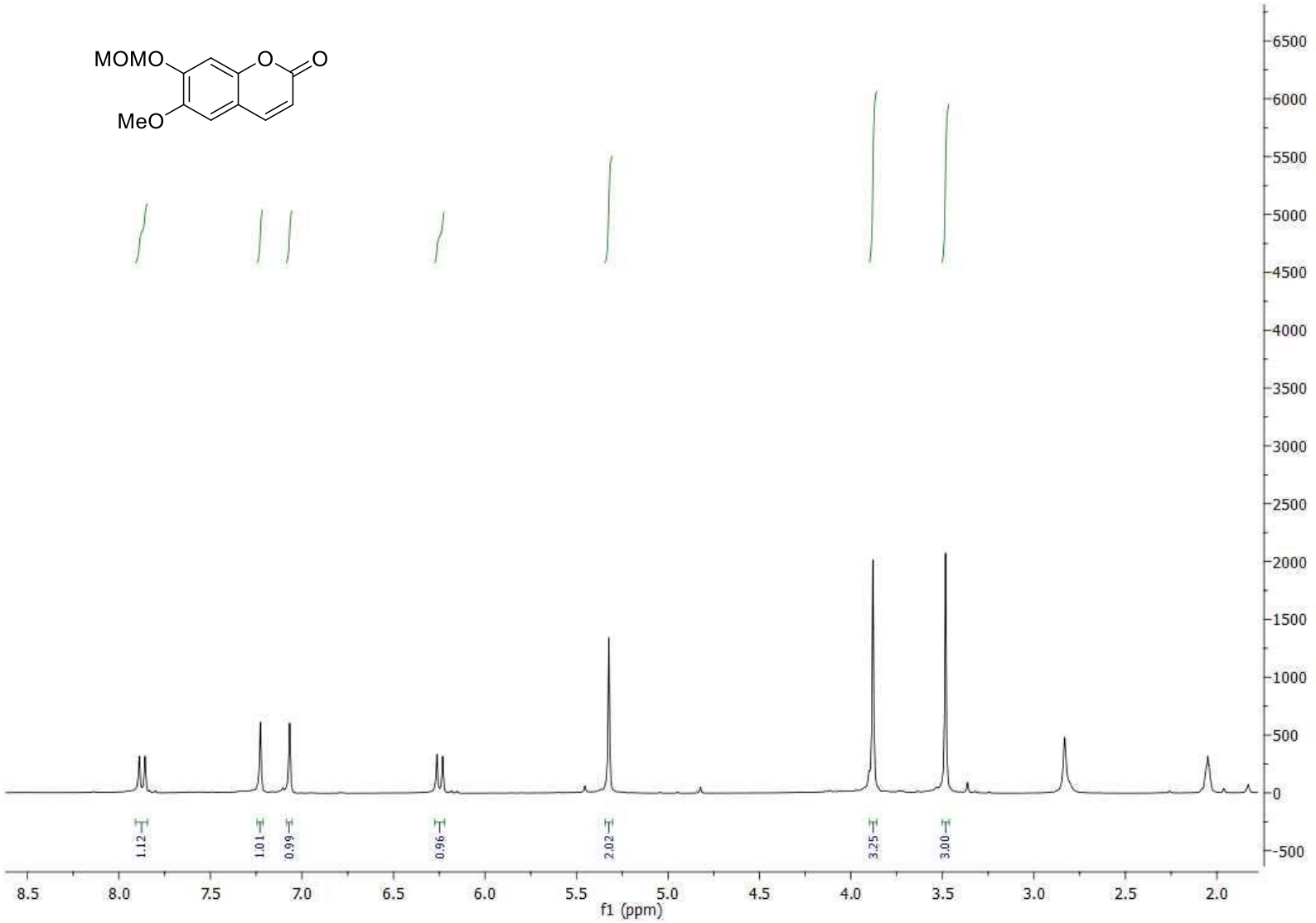
^{1}H NMR (300 MHz, acetone-d_6) of **7k**



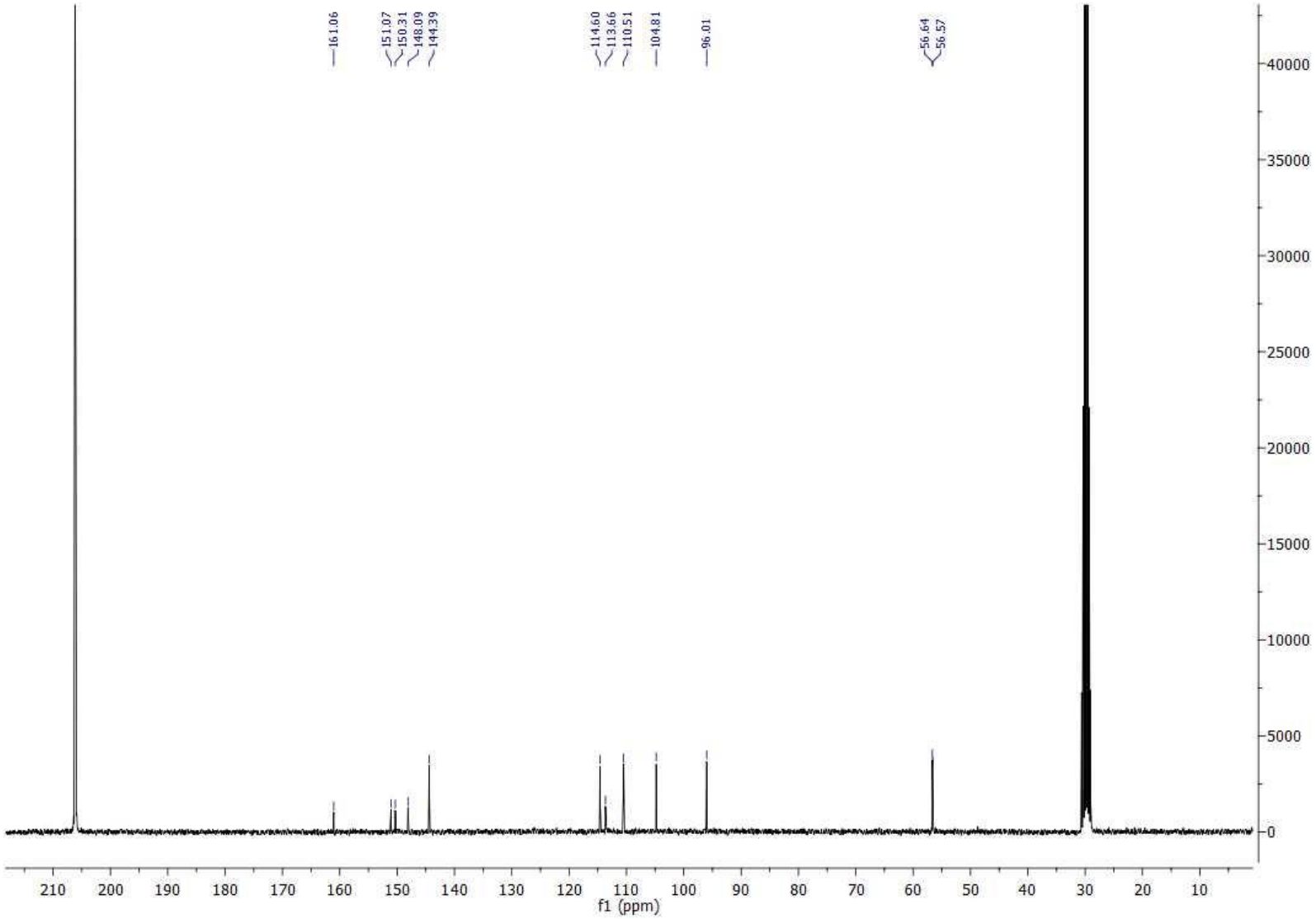
^{13}C NMR (75 MHz, acetone-d_6) of **7k**



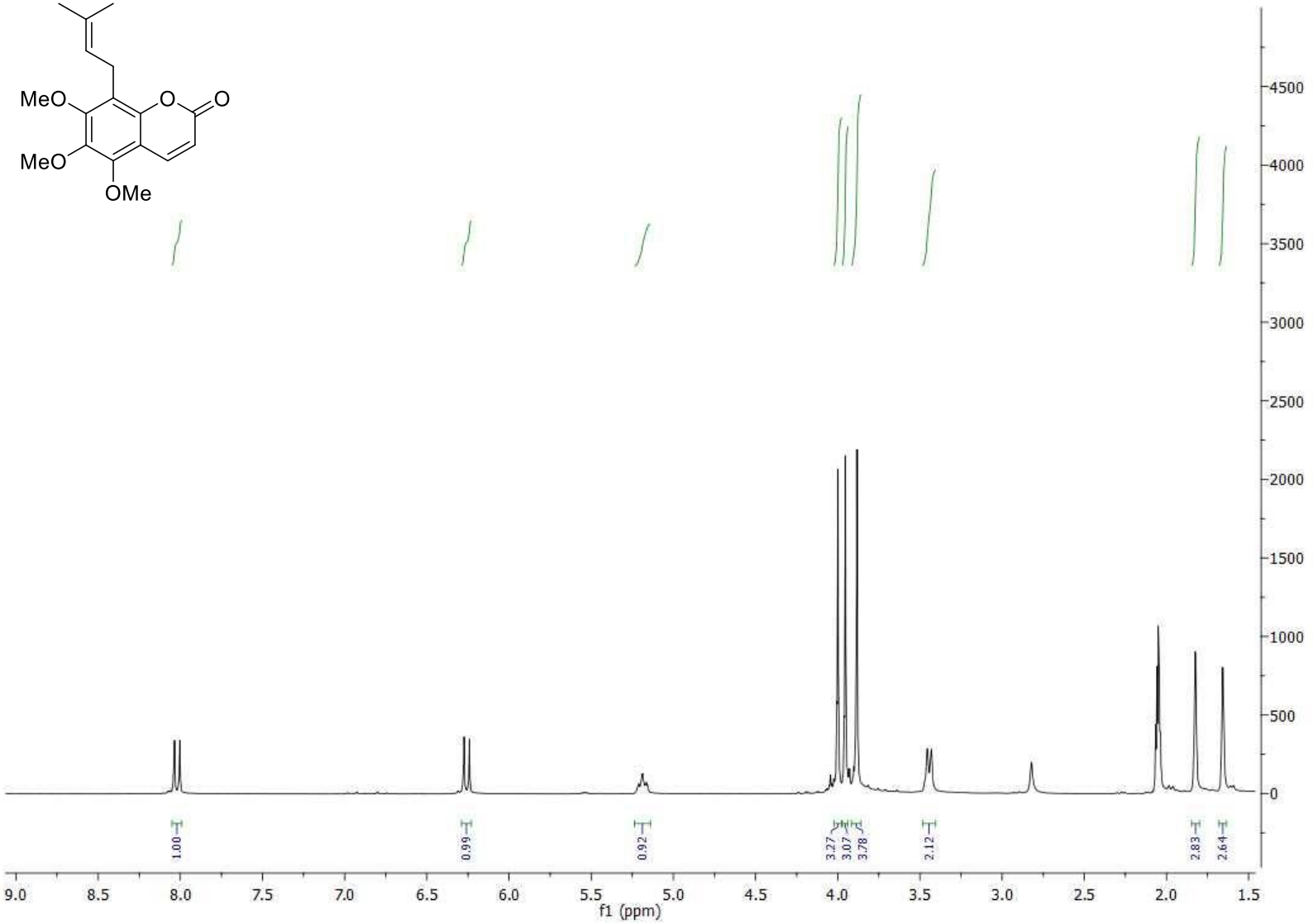
^{1}H NMR (300 MHz, acetone-d_6) of **8k**



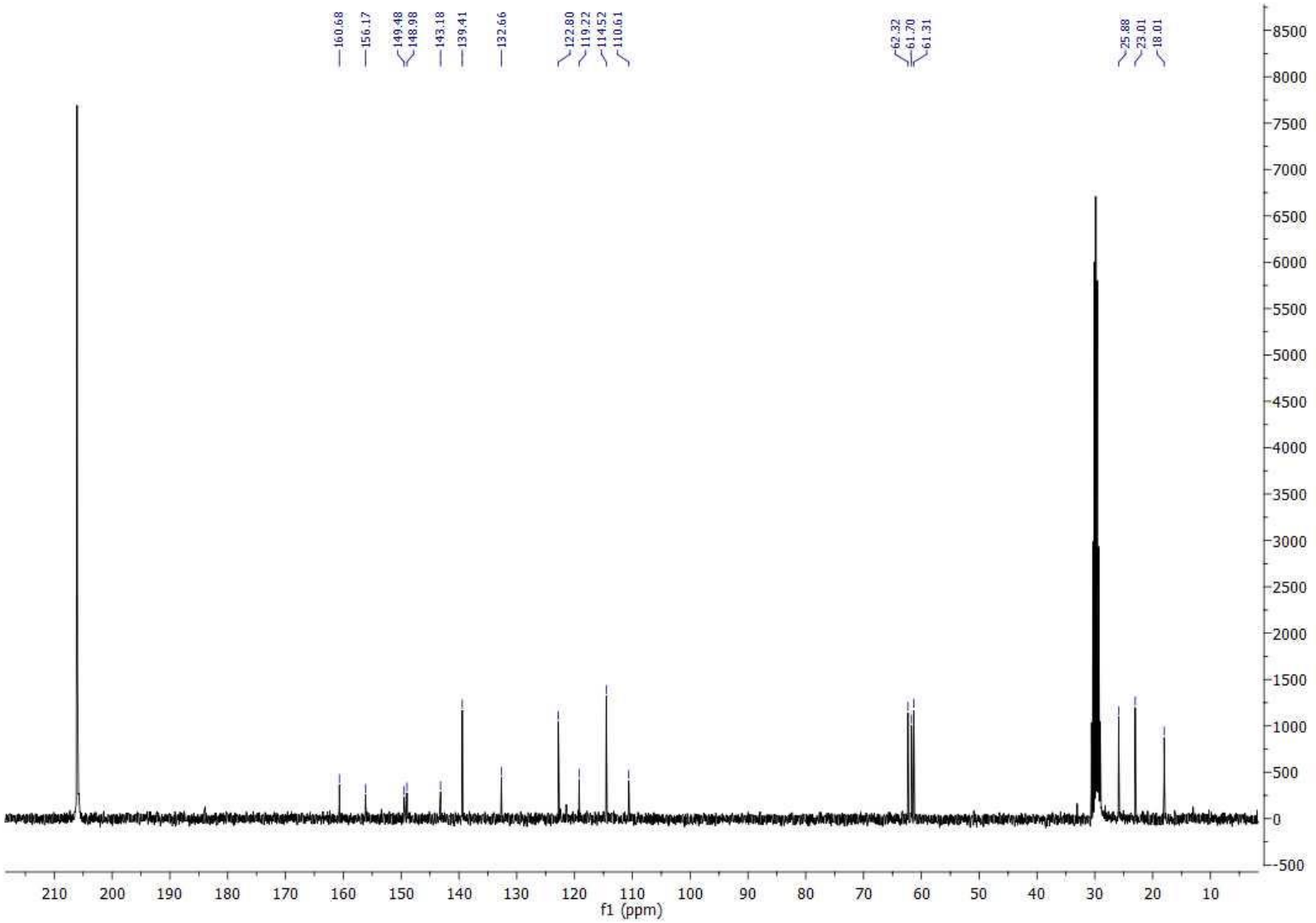
^{13}C NMR (75 MHz, acetone-d_6) of **8k**



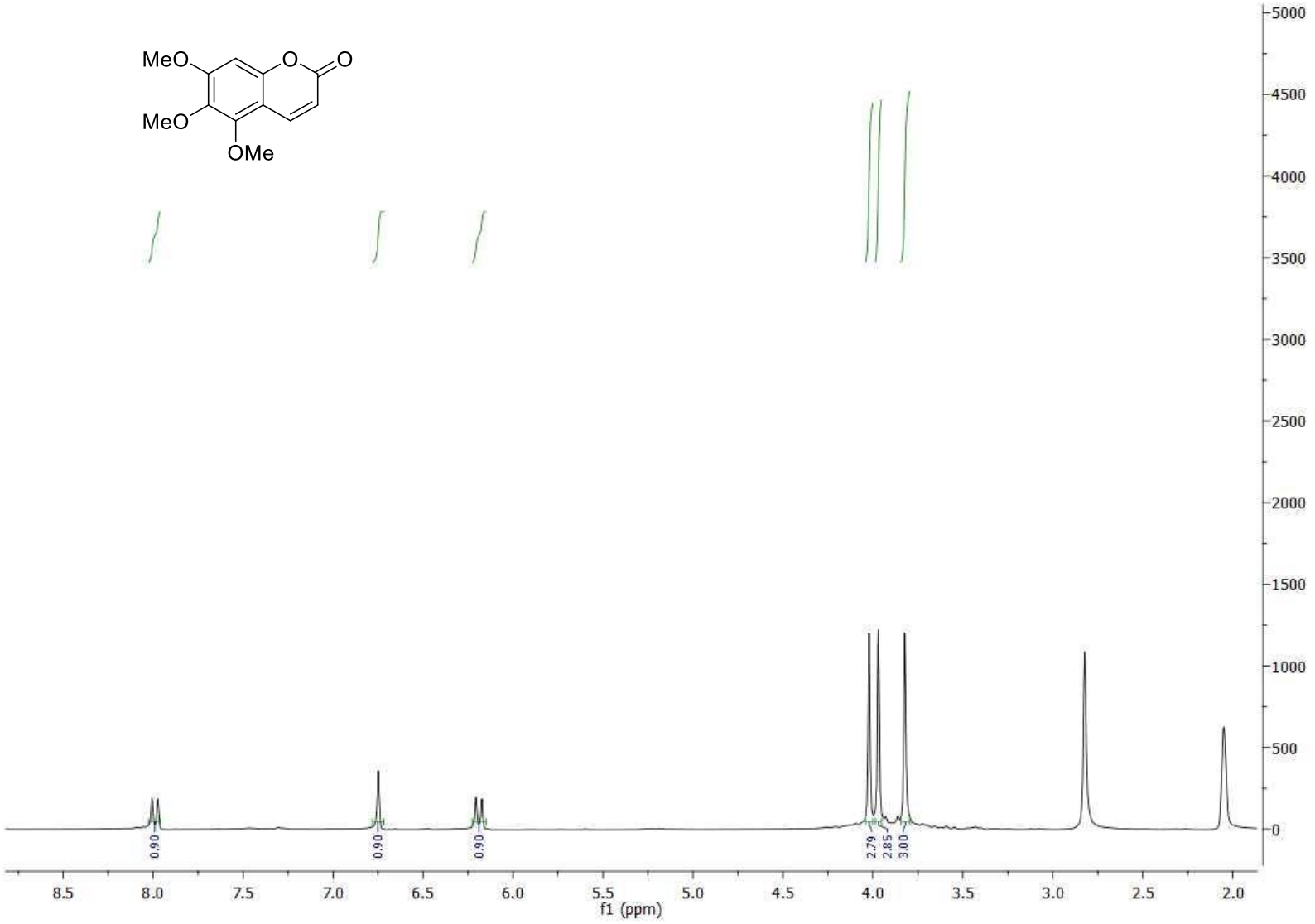
^{1}H NMR (300 MHz, acetone-d_6) of **7l**



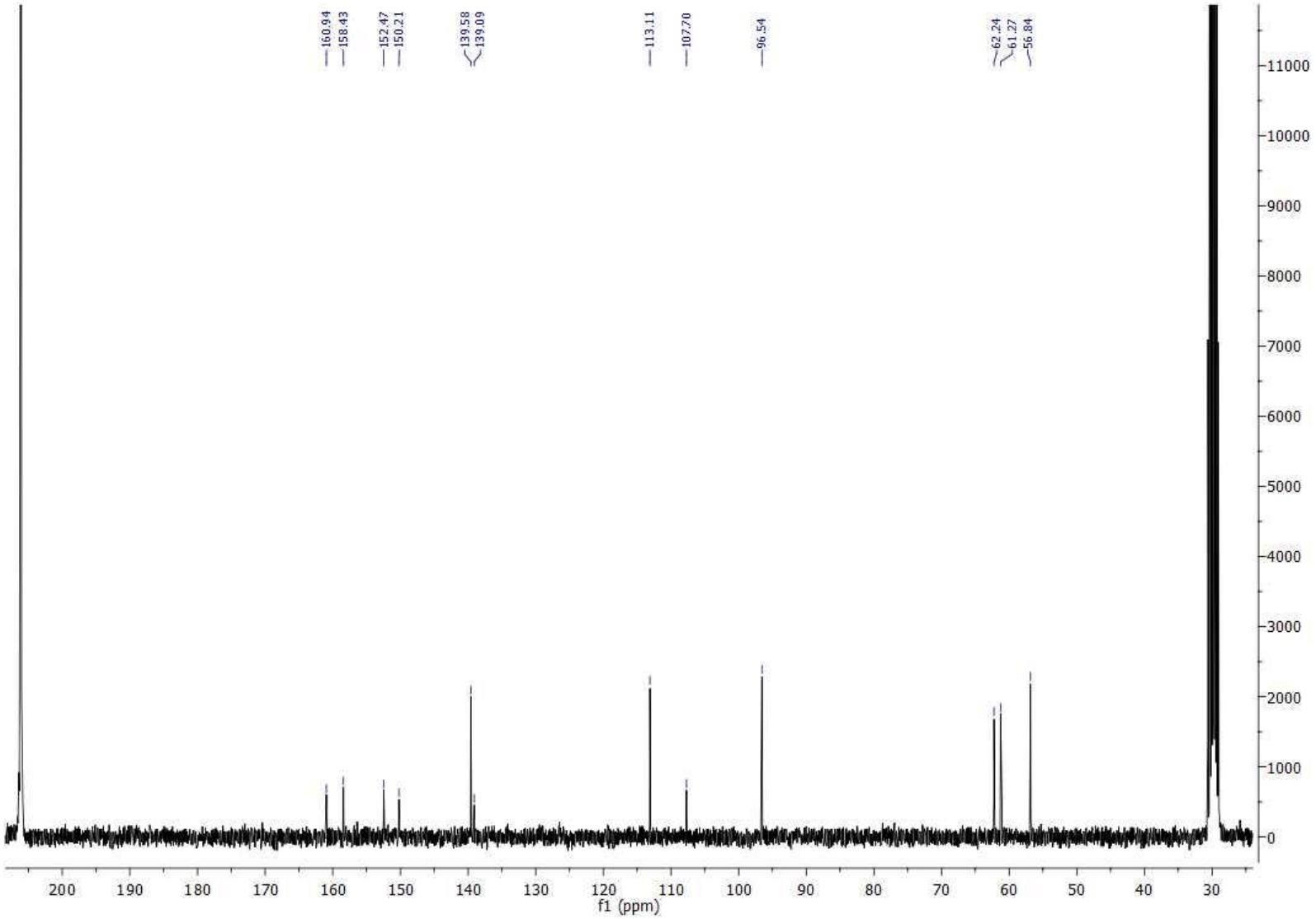
^{13}C NMR (75 MHz, acetone-d_6) of **7l**



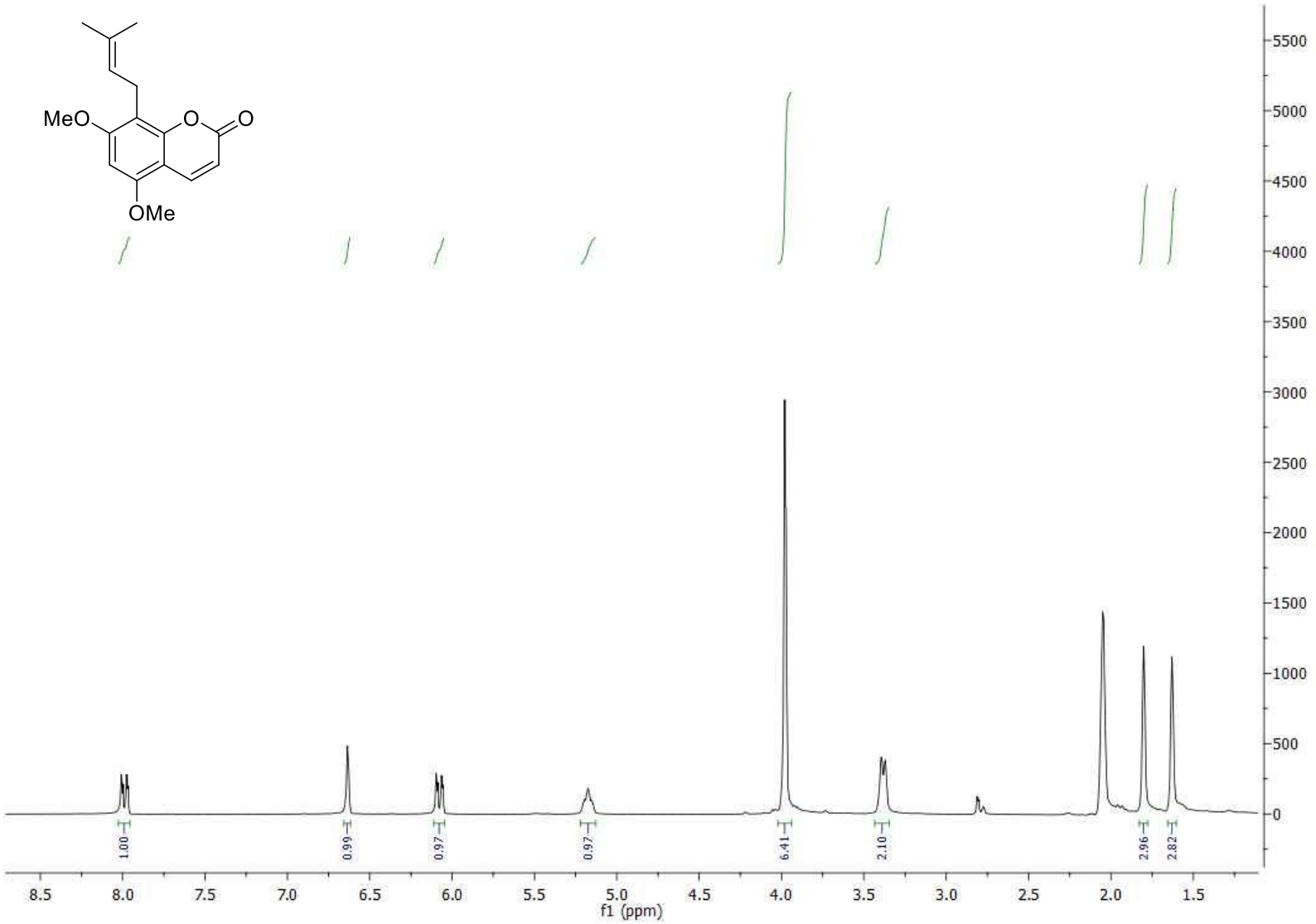
^{1}H NMR (300 MHz, acetone-d_6) of **8l**



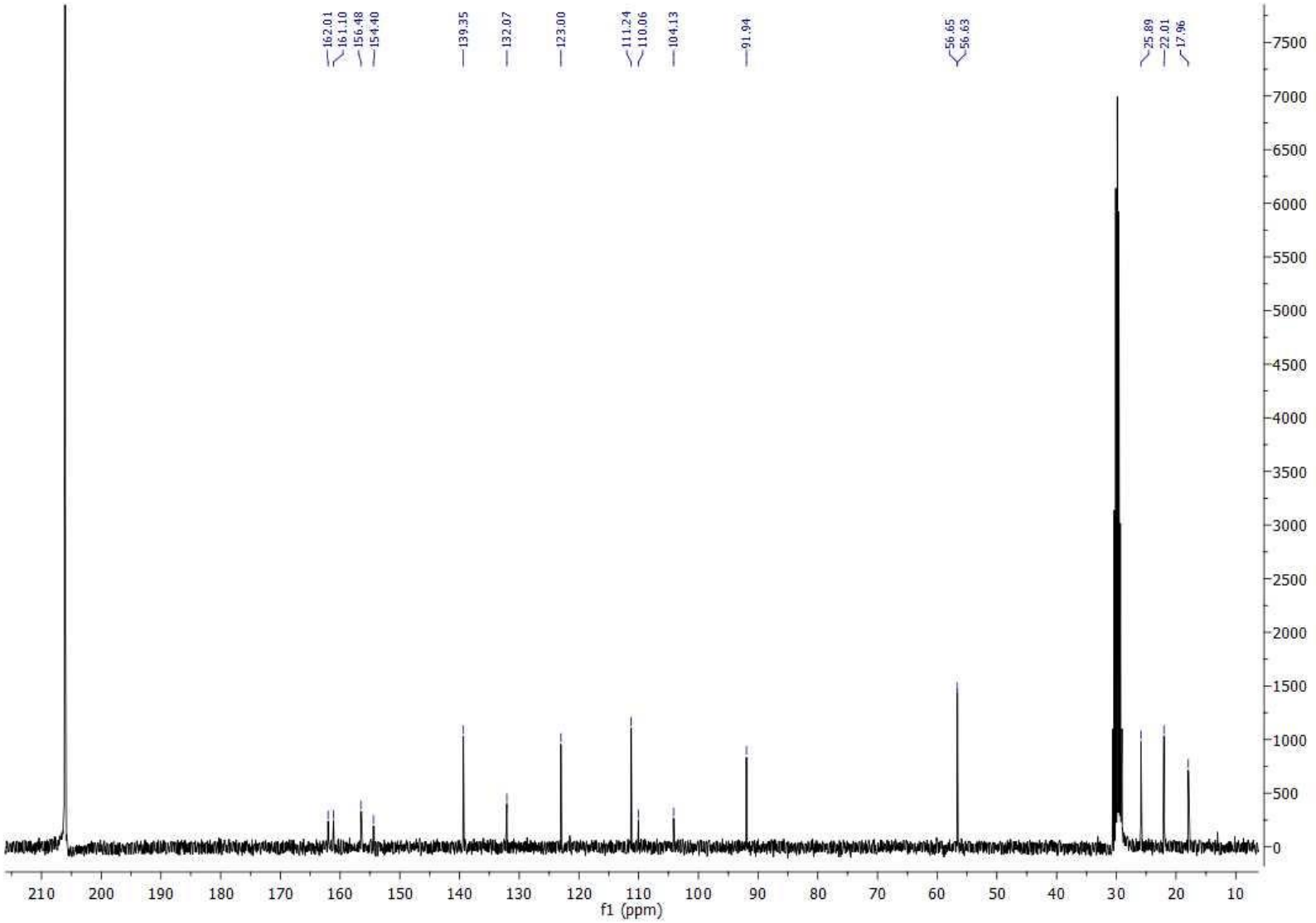
^{13}C NMR (75 MHz, acetone-d_6) of **8l**



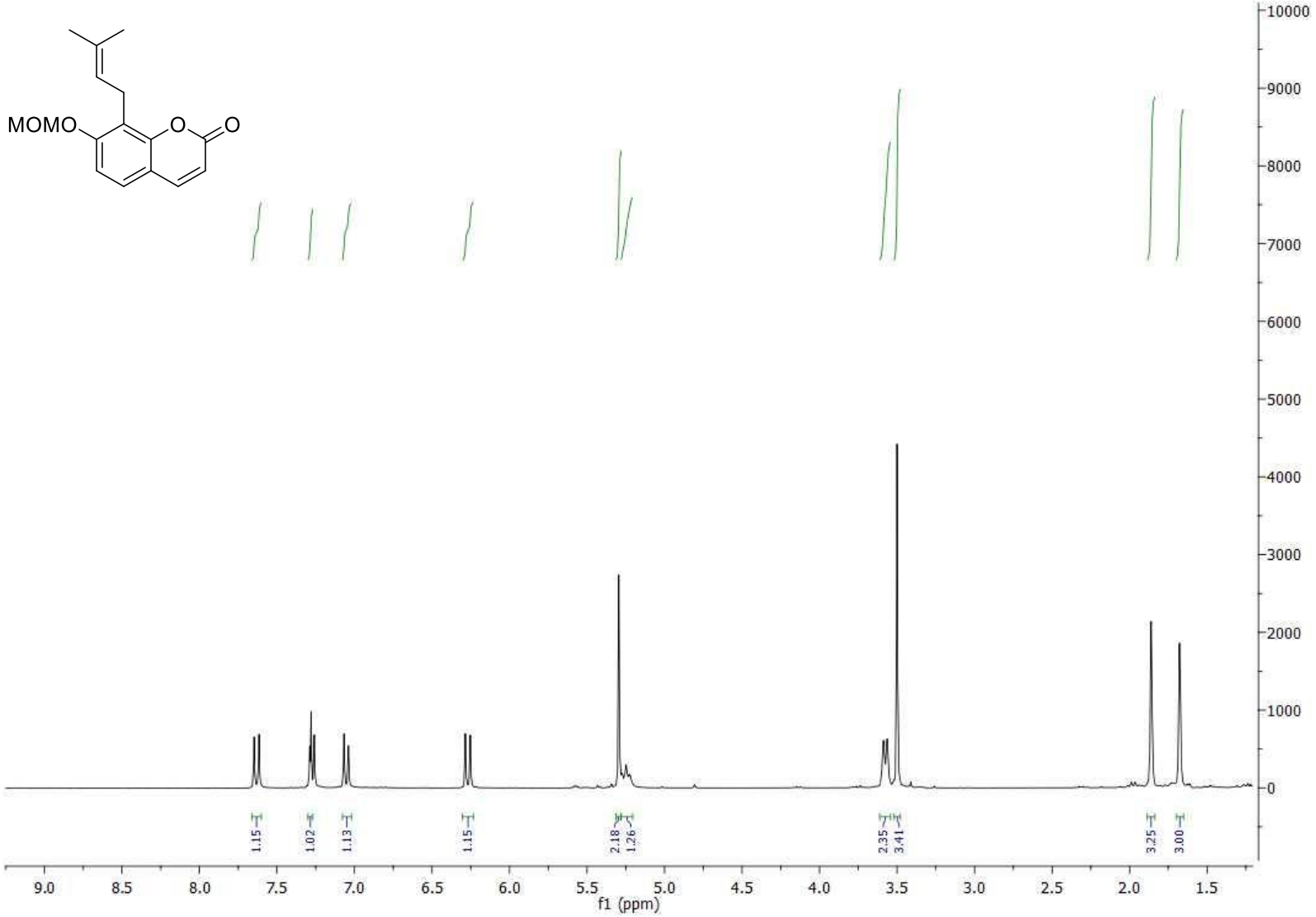
^{1}H NMR (300 MHz, acetone-d_6) of **7n**



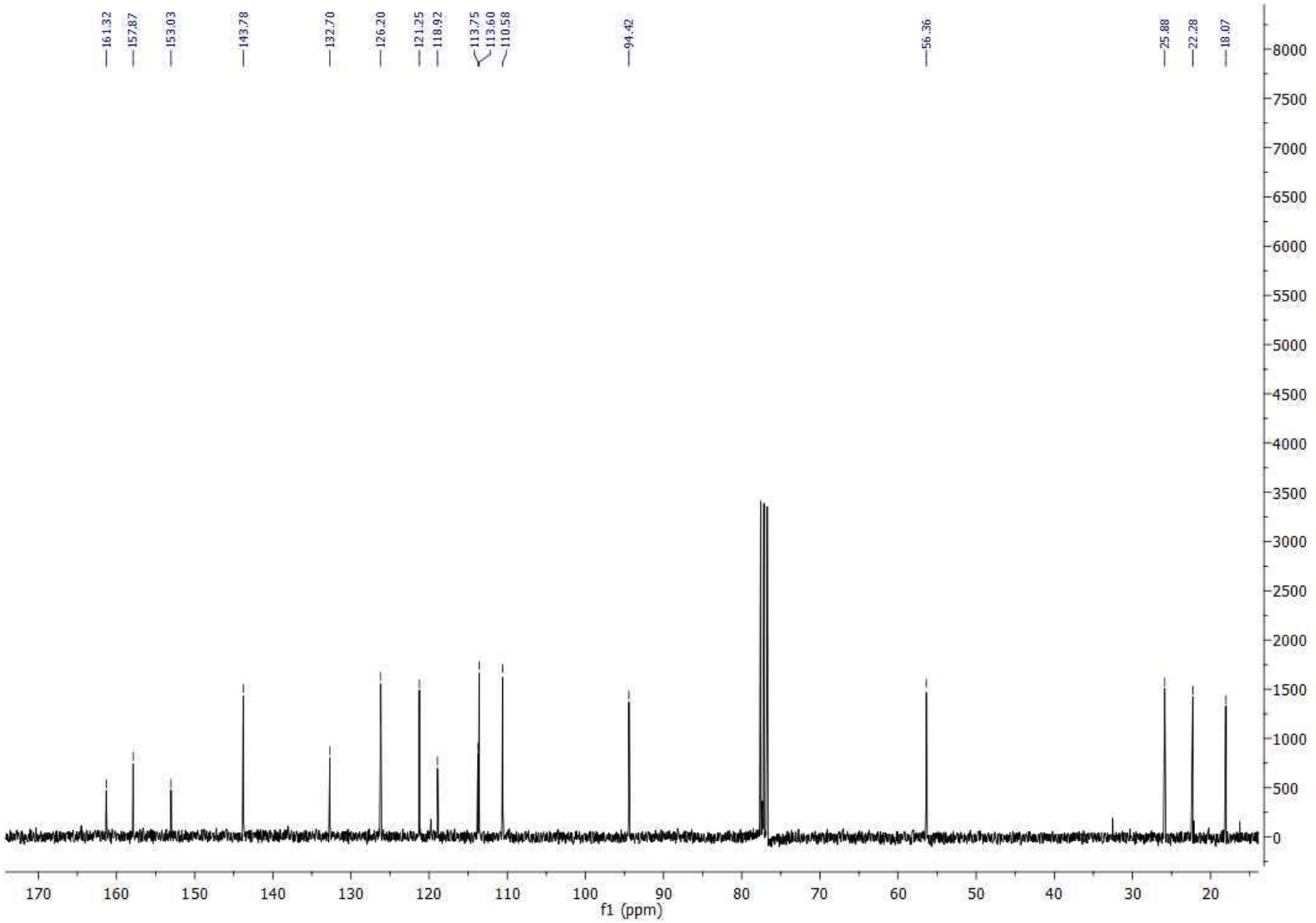
^{13}C NMR (75 MHz, acetone-d_6) of **7n**



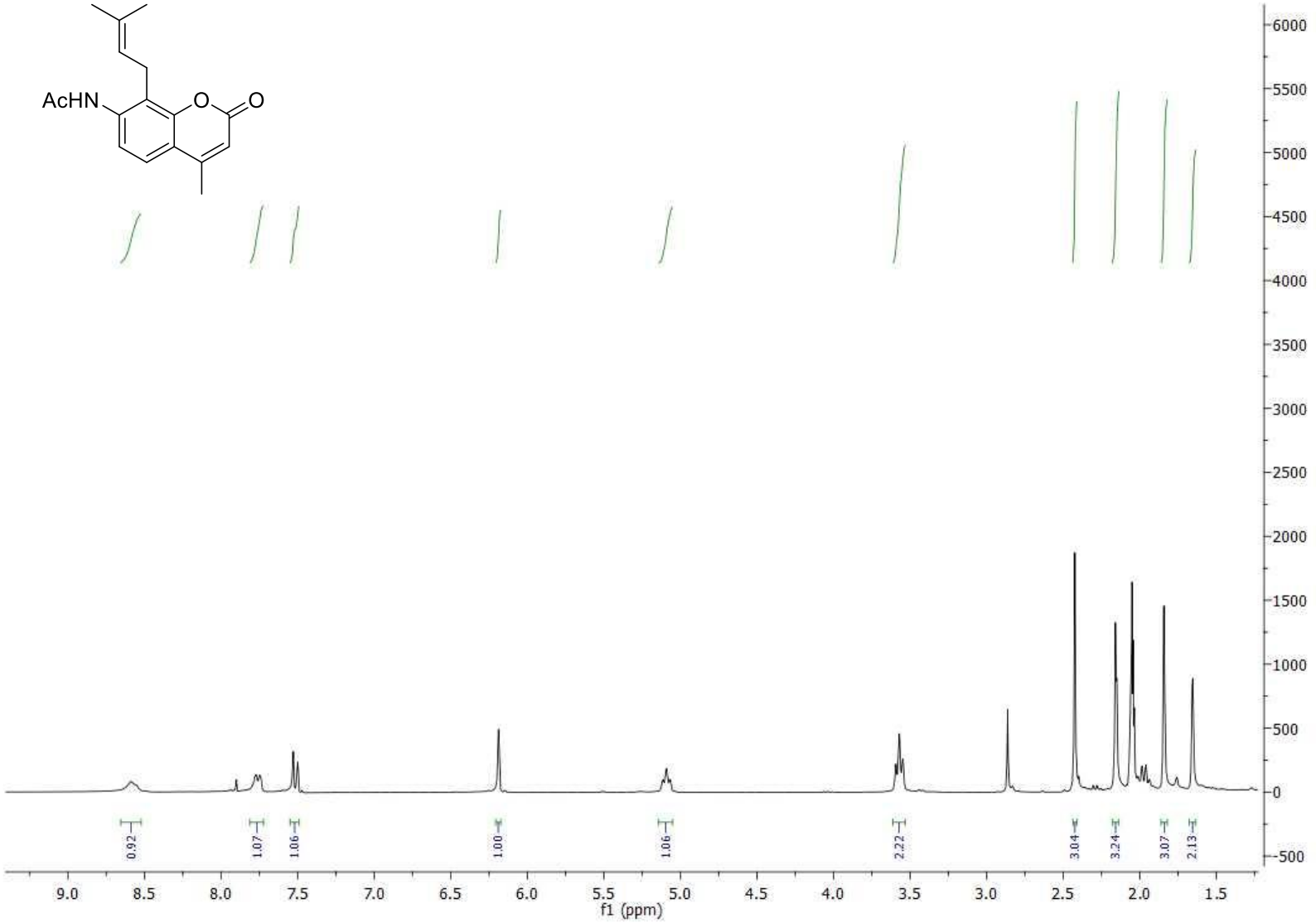
^{1}H NMR (300 MHz, $CDCl_3$) of **7o**



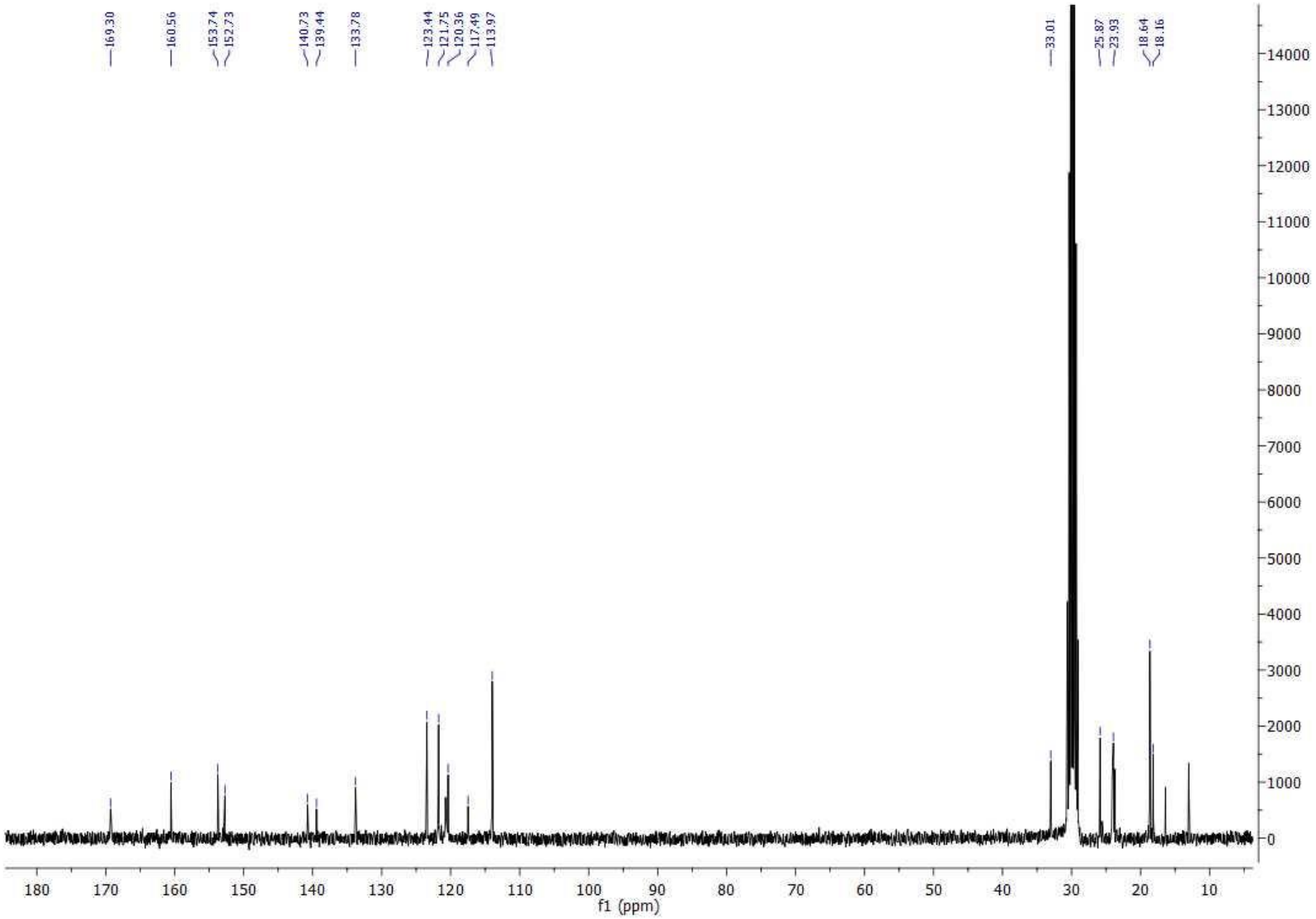
^{13}C NMR (75 MHz, $CDCl_3$) of **7o**



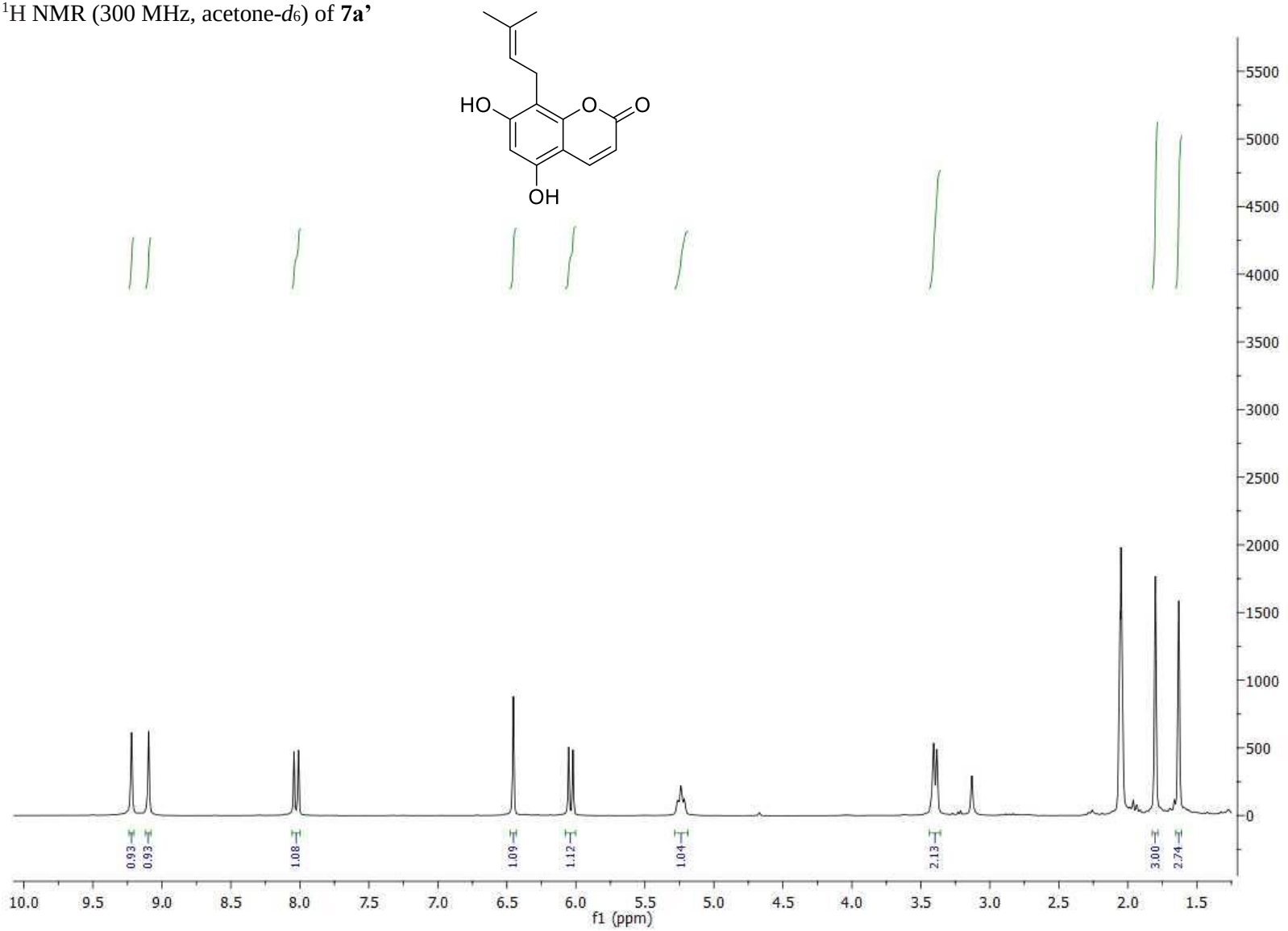
^{1}H NMR (300 MHz, acetone-d_6) of **7r**



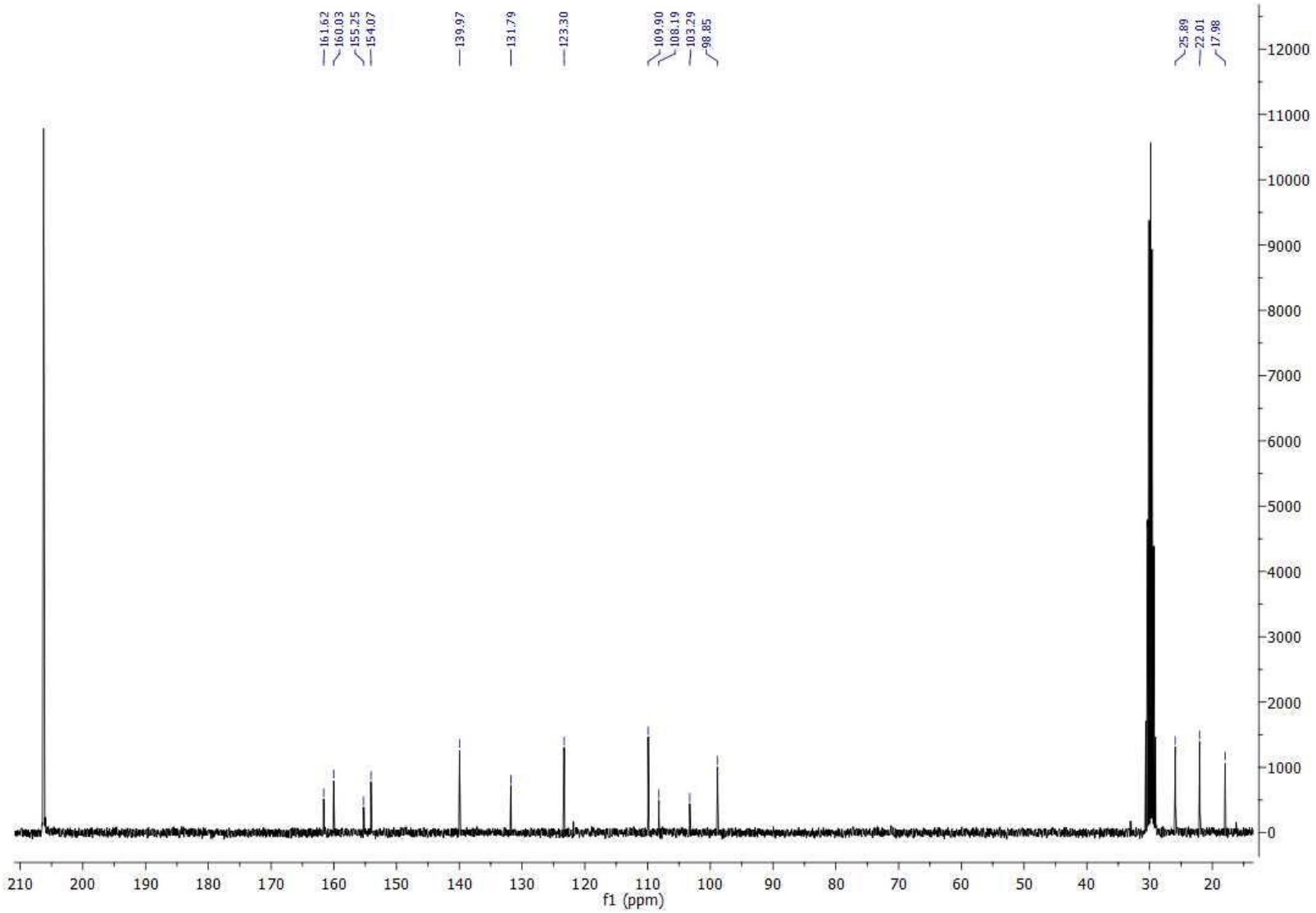
^{13}C NMR (75 MHz, acetone-d_6) of **7r**



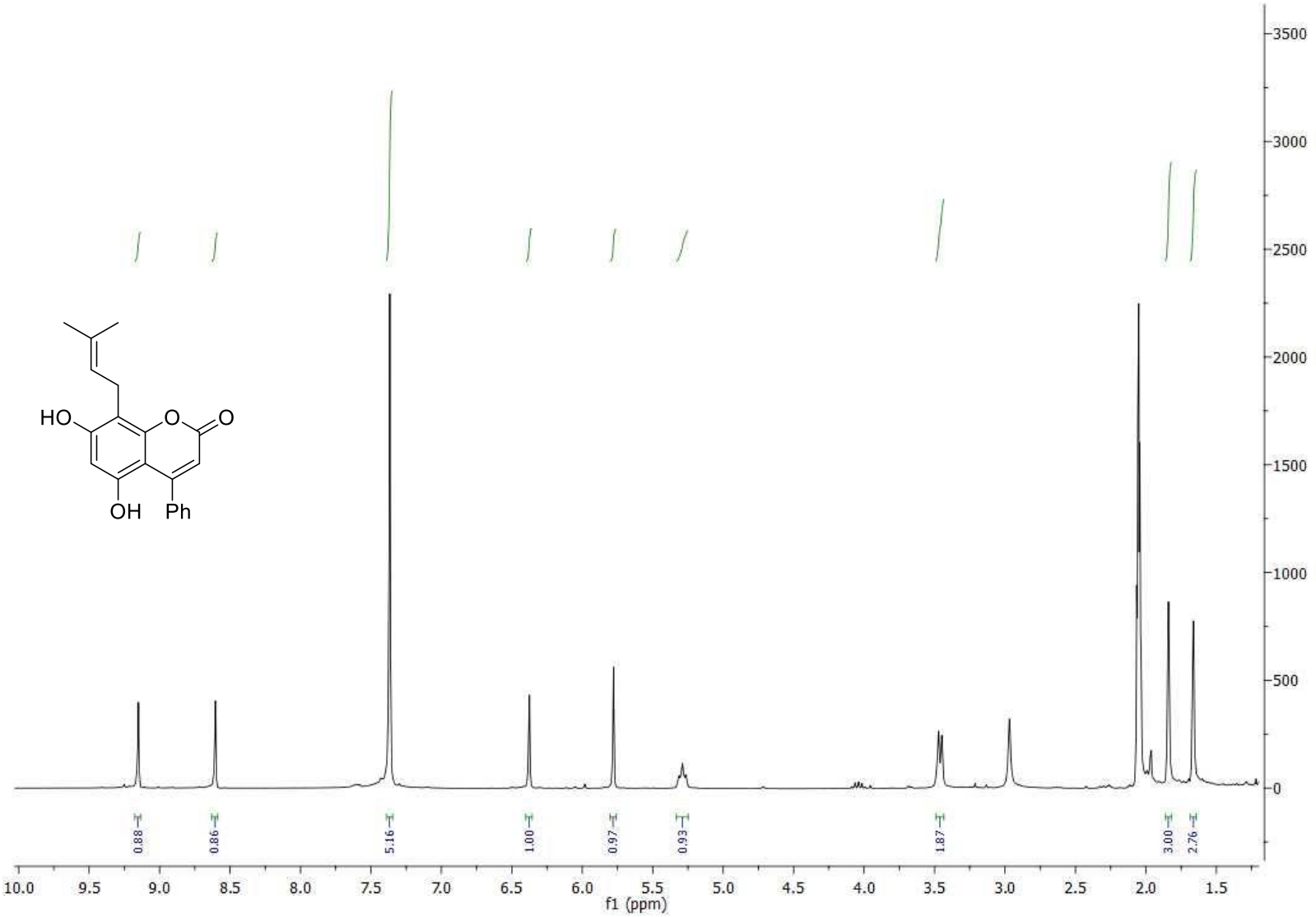
^{1}H NMR (300 MHz, acetone-d_6) of **7a'**



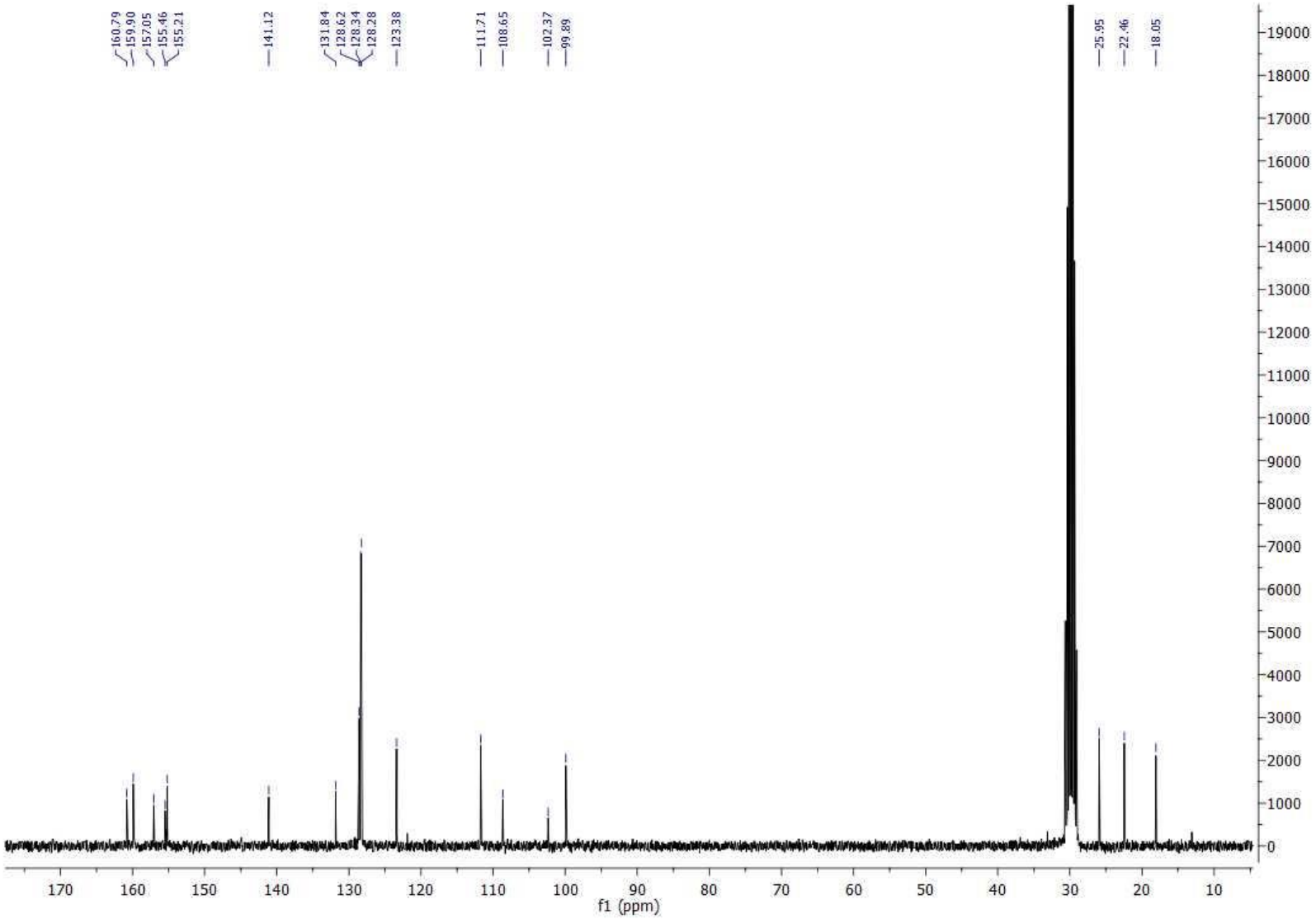
^{13}C NMR (75 MHz, acetone-d_6) of **7a'**



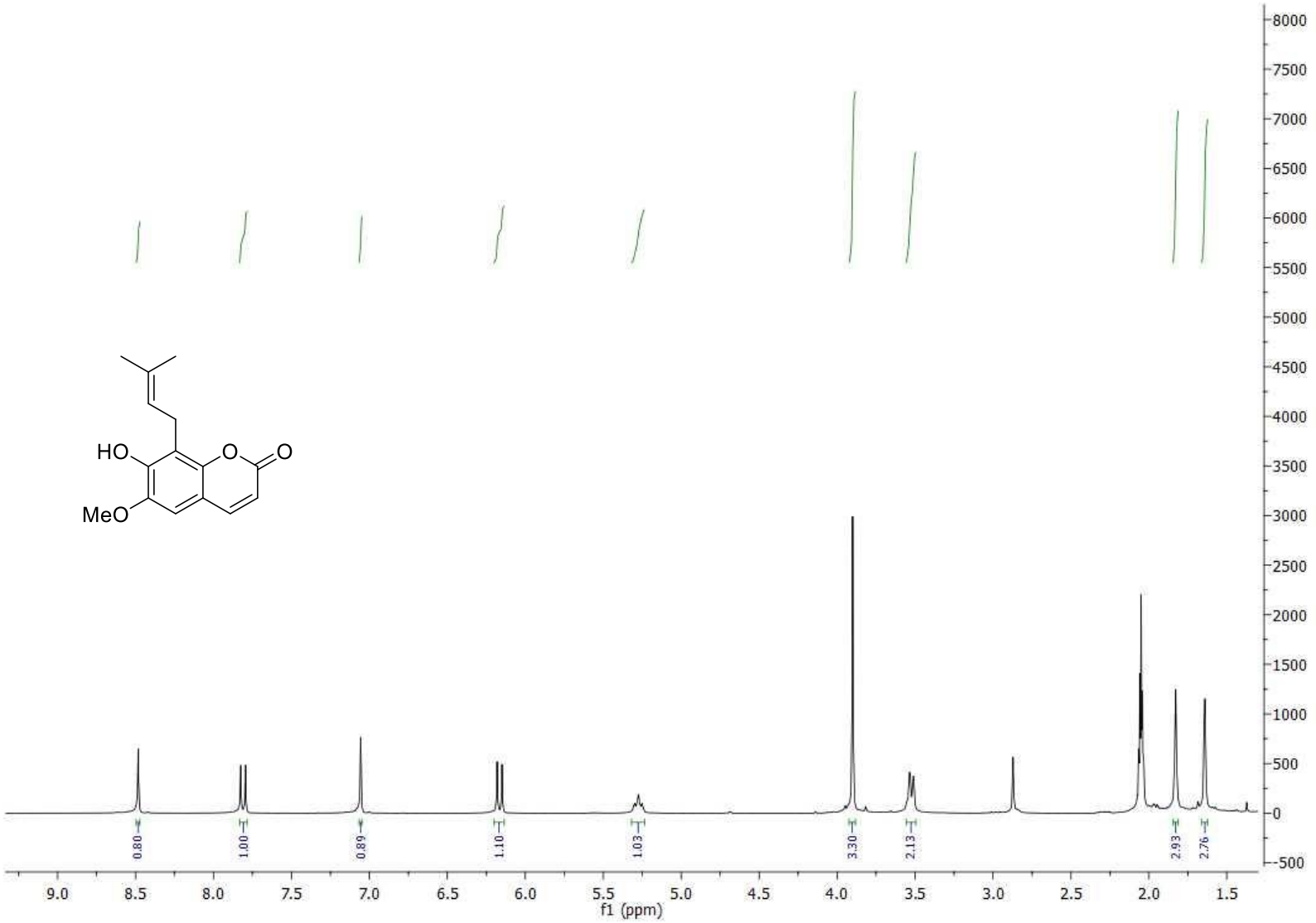
^{1}H NMR (300 MHz, acetone-d_6) of **7b'**



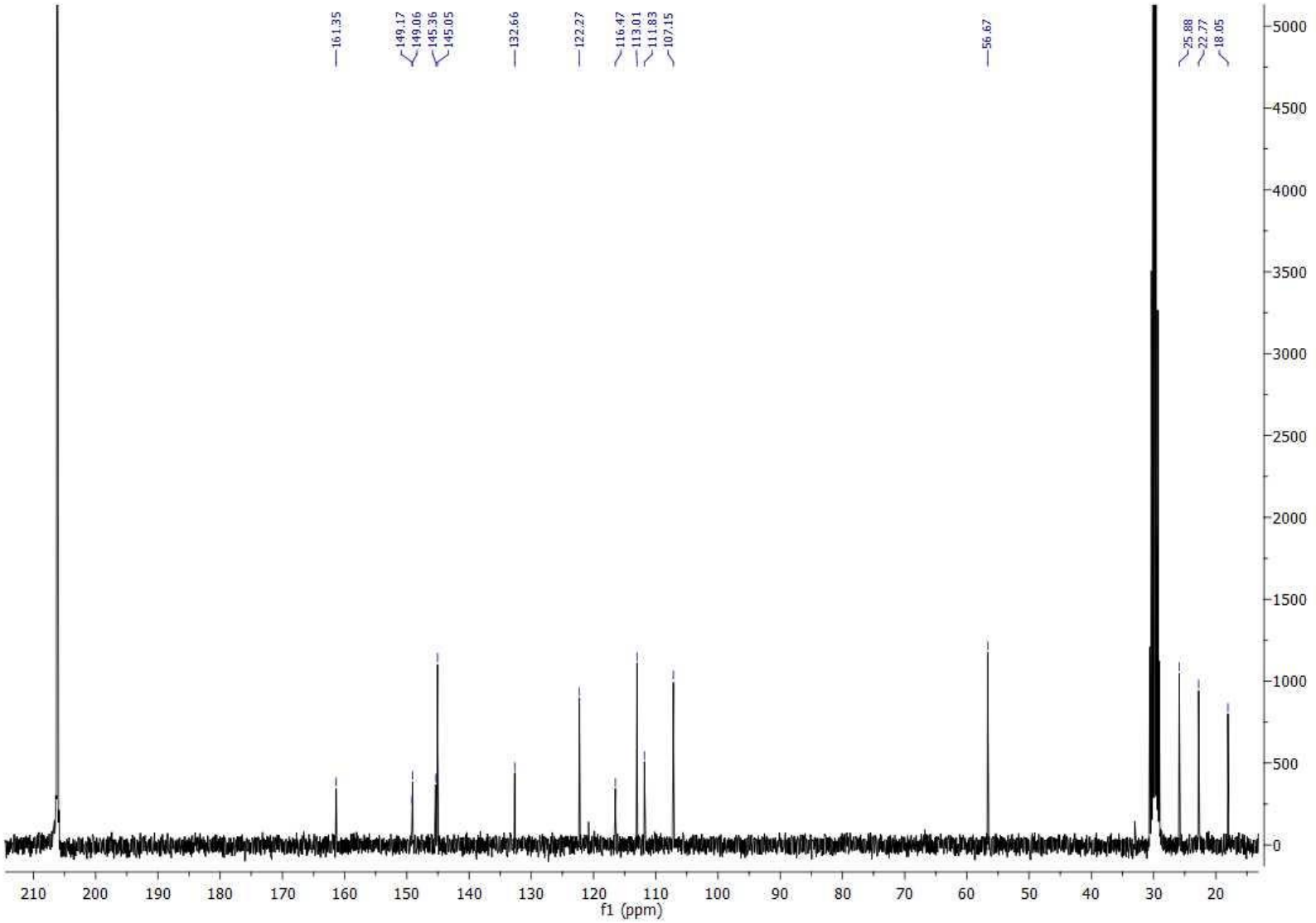
^{13}C NMR (75 MHz, acetone-d_6) of **7b'**



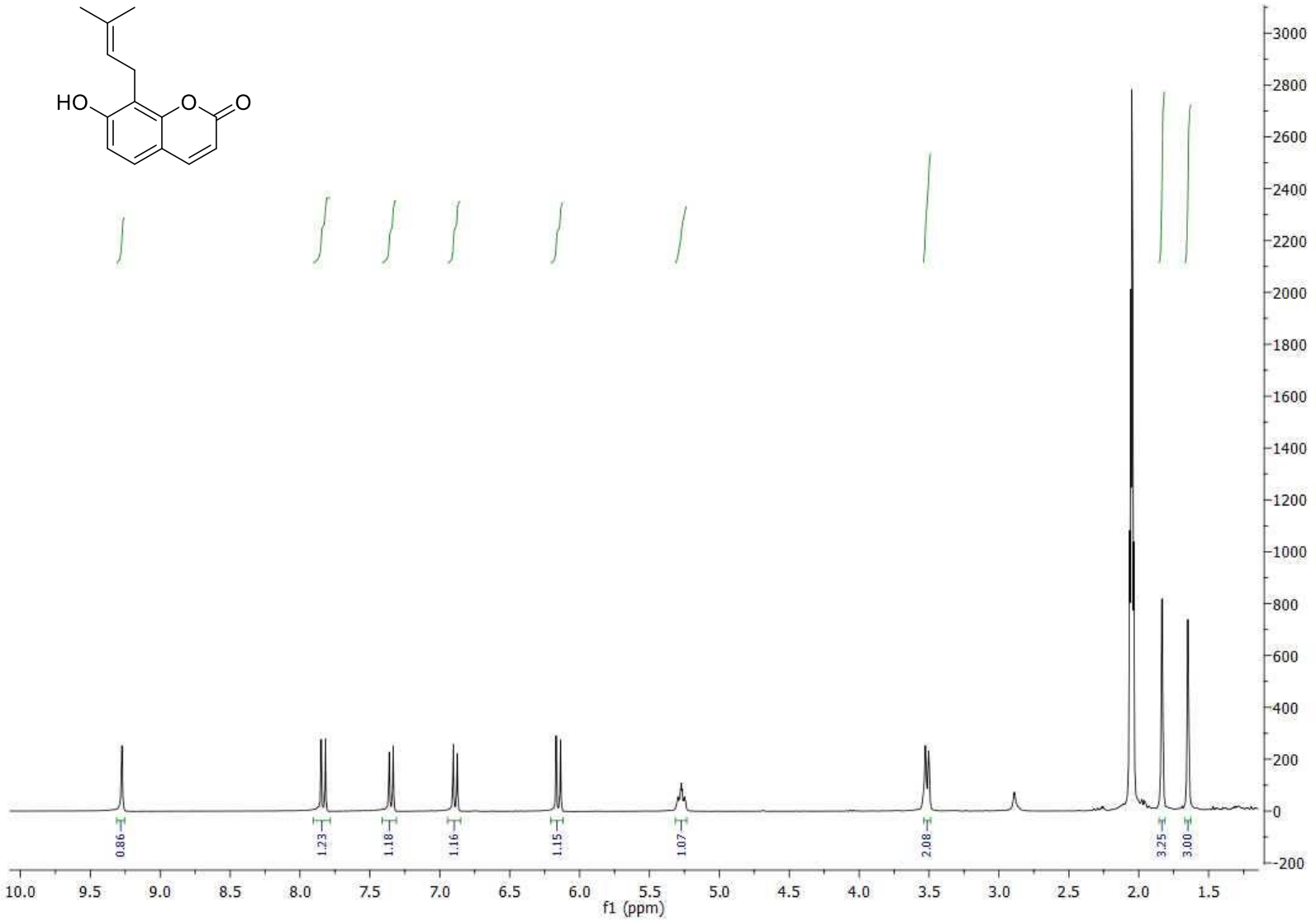
^{1}H NMR (300 MHz, acetone-d_6) of **7k'**



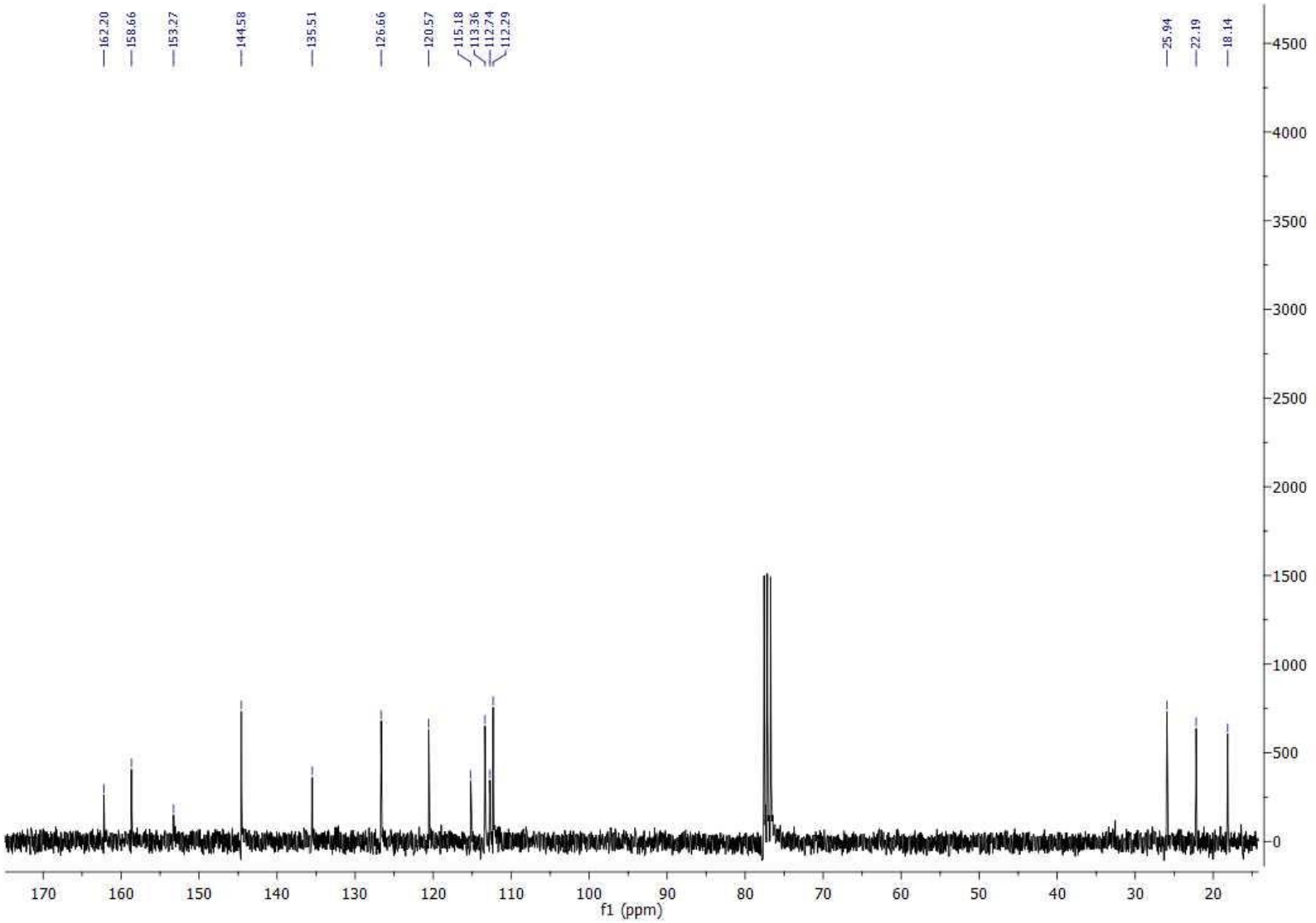
^{13}C NMR (75 MHz, acetone-d_6) of **7k'**



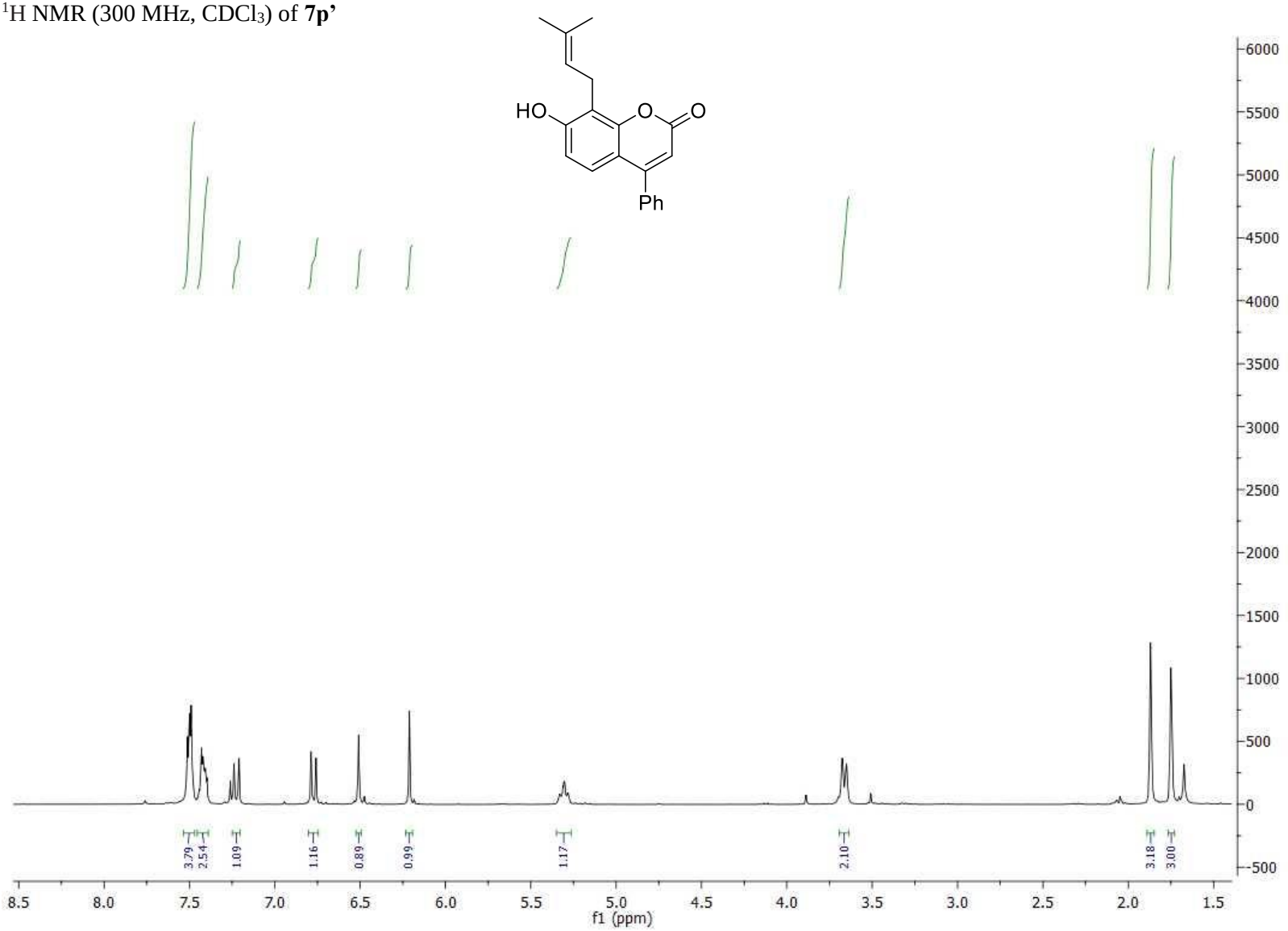
^{1}H NMR (300 MHz, acetone-d_6) of **7o'**



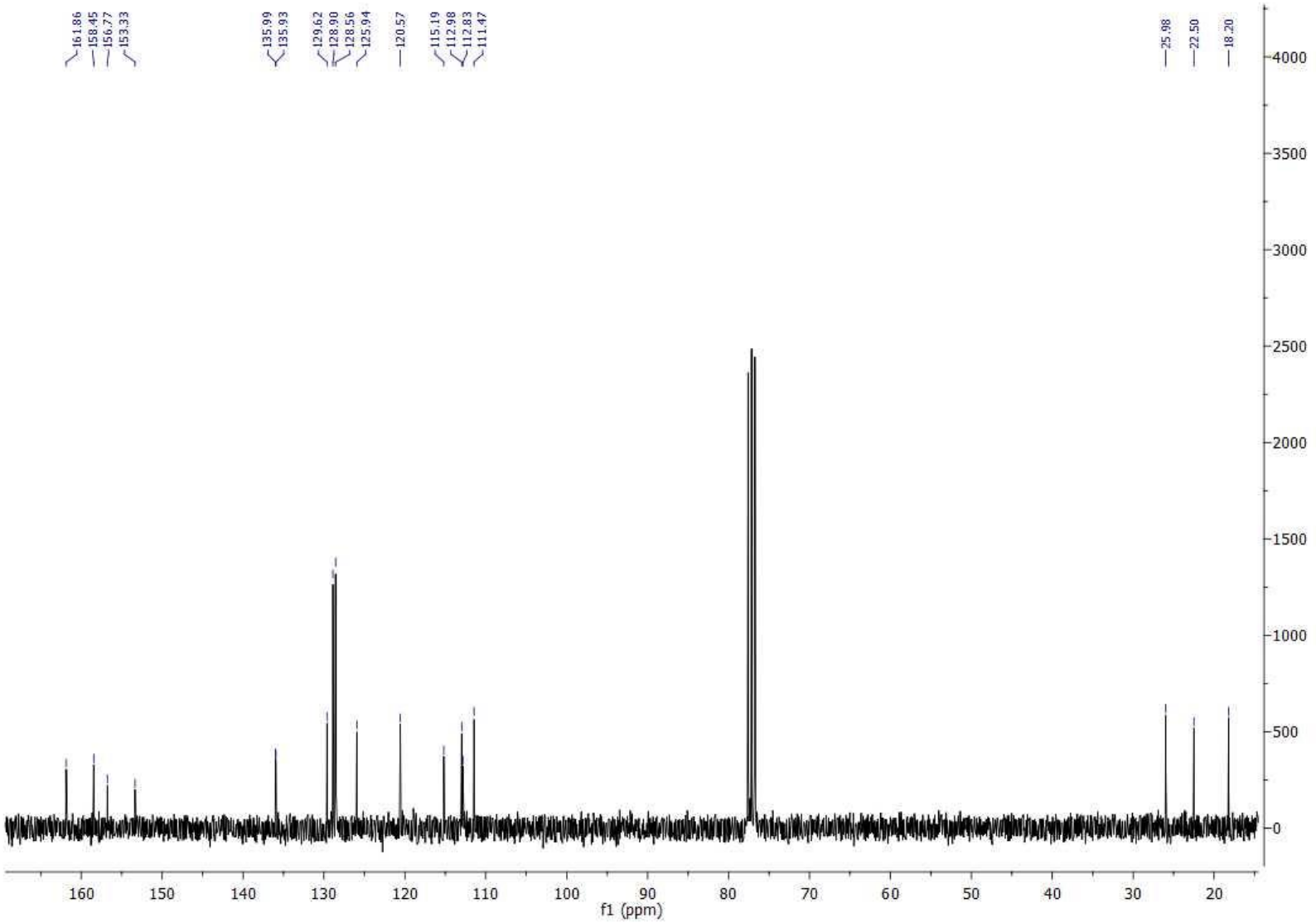
^{13}C NMR (75 MHz, acetone-d_6) of **7o'**



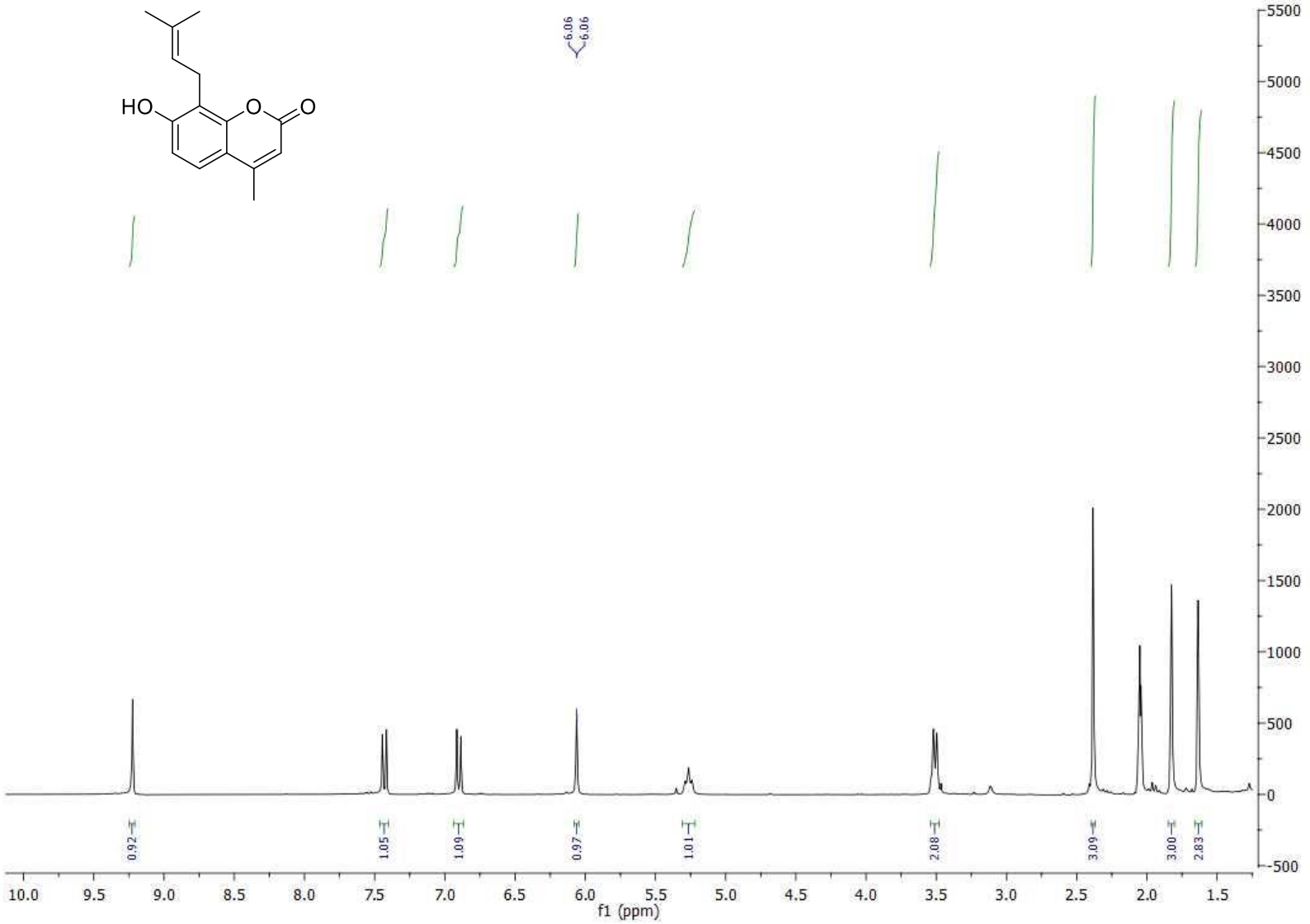
^{1}H NMR (300 MHz, $CDCl_3$) of **7p'**



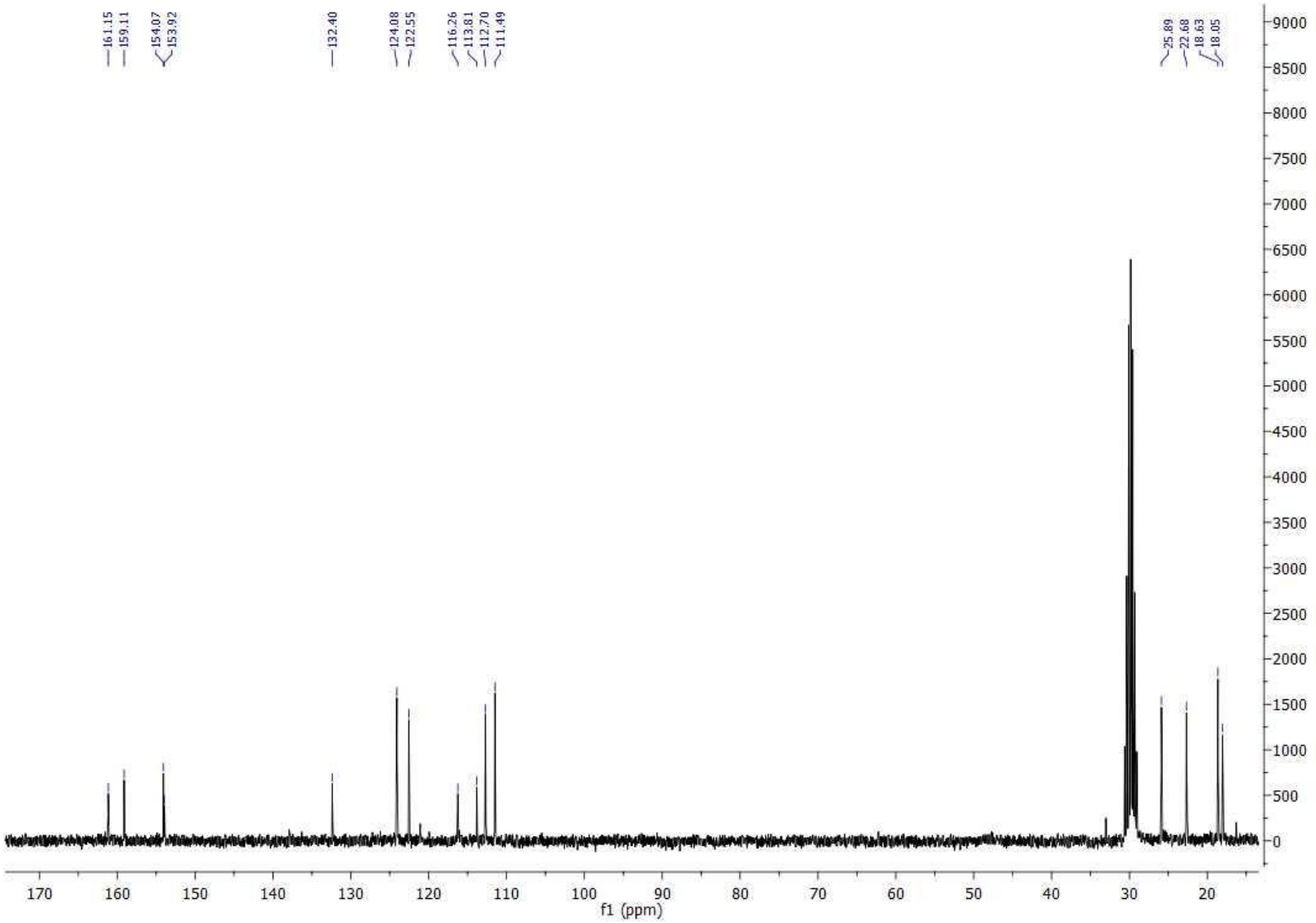
^{13}C NMR (75 MHz, $CDCl_3$) of **7p'**



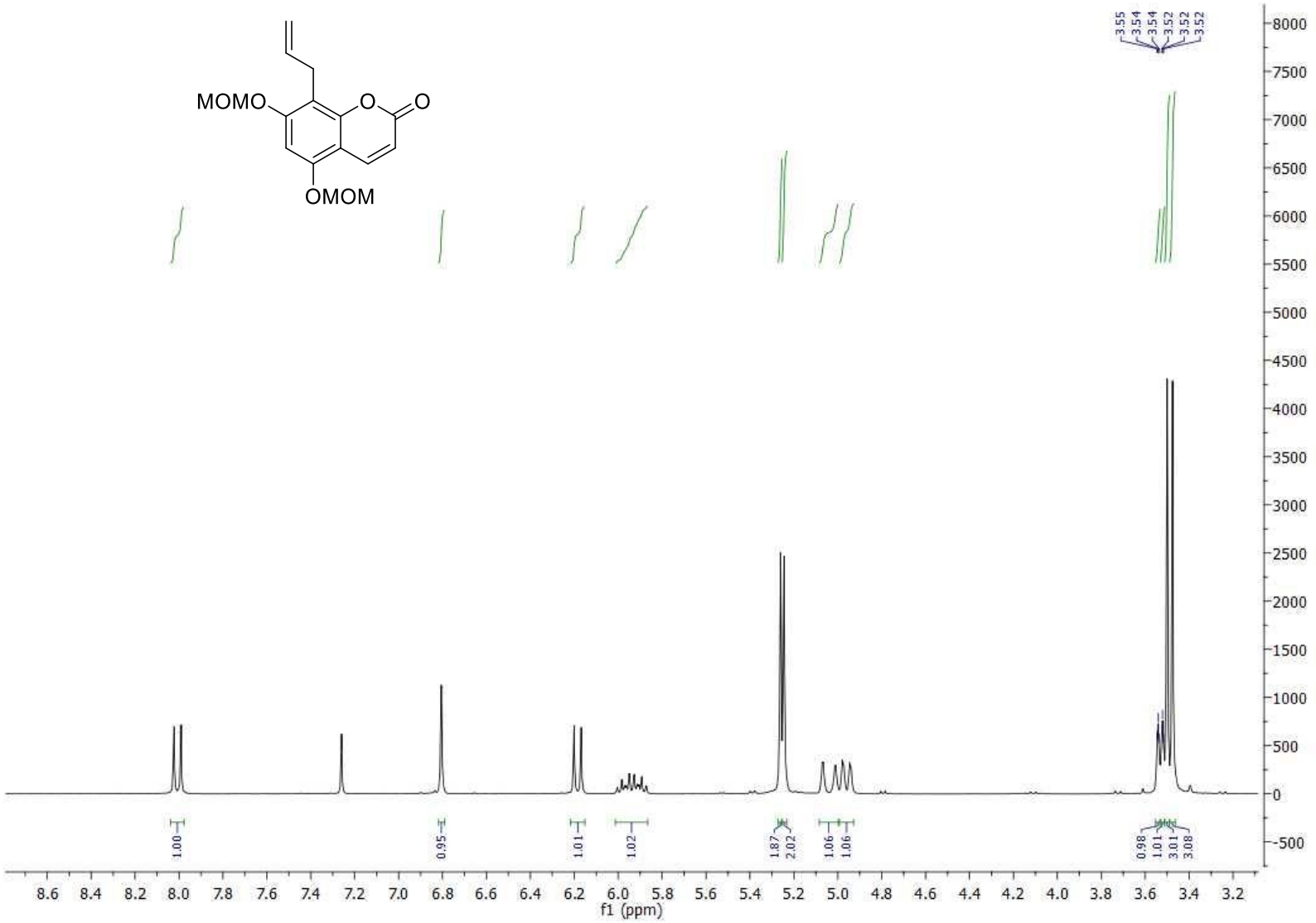
^{1}H NMR (300 MHz, acetone-d_6) of **7q'**



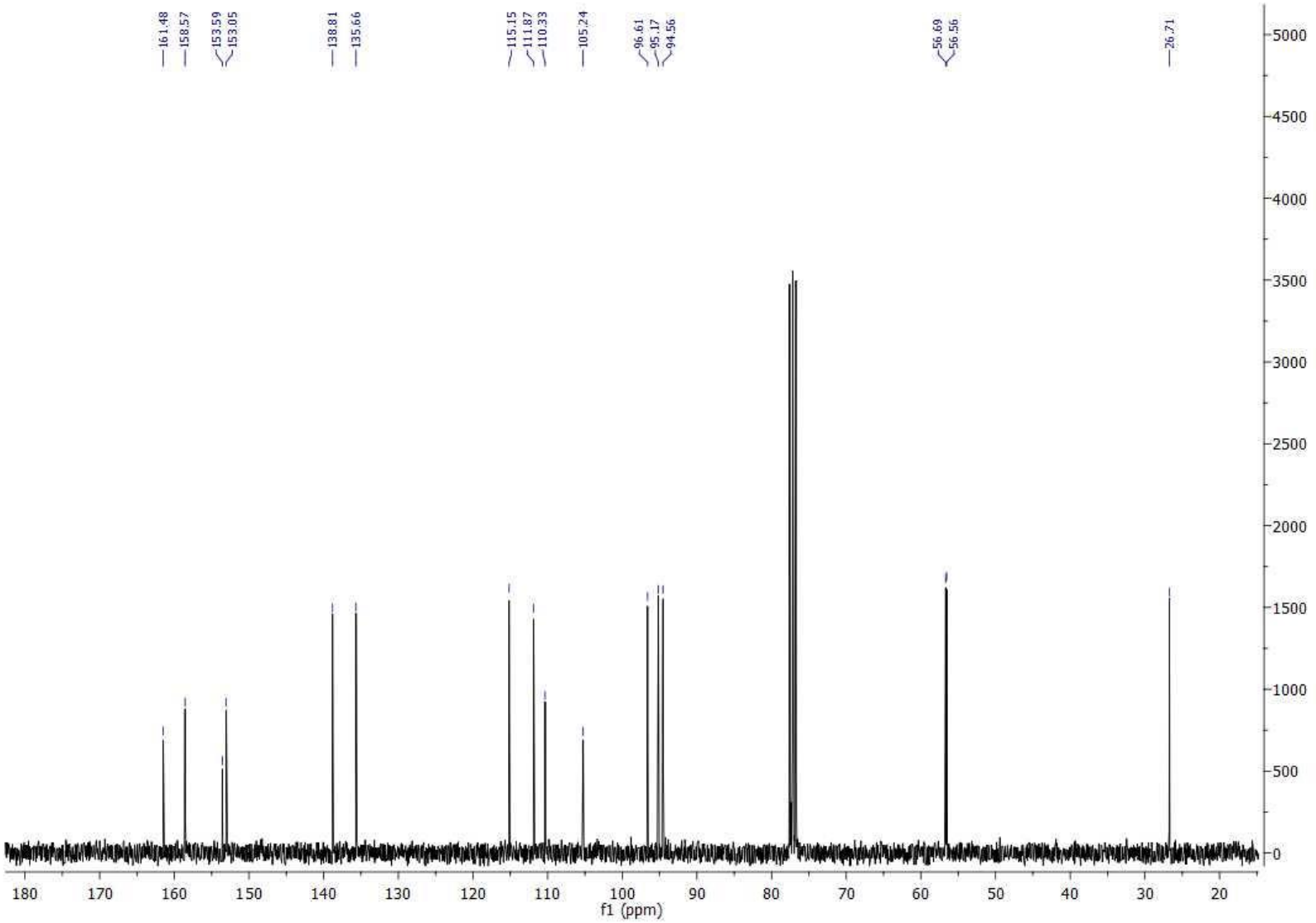
^{13}C NMR (75 MHz, acetone-d_6) of **7q'**



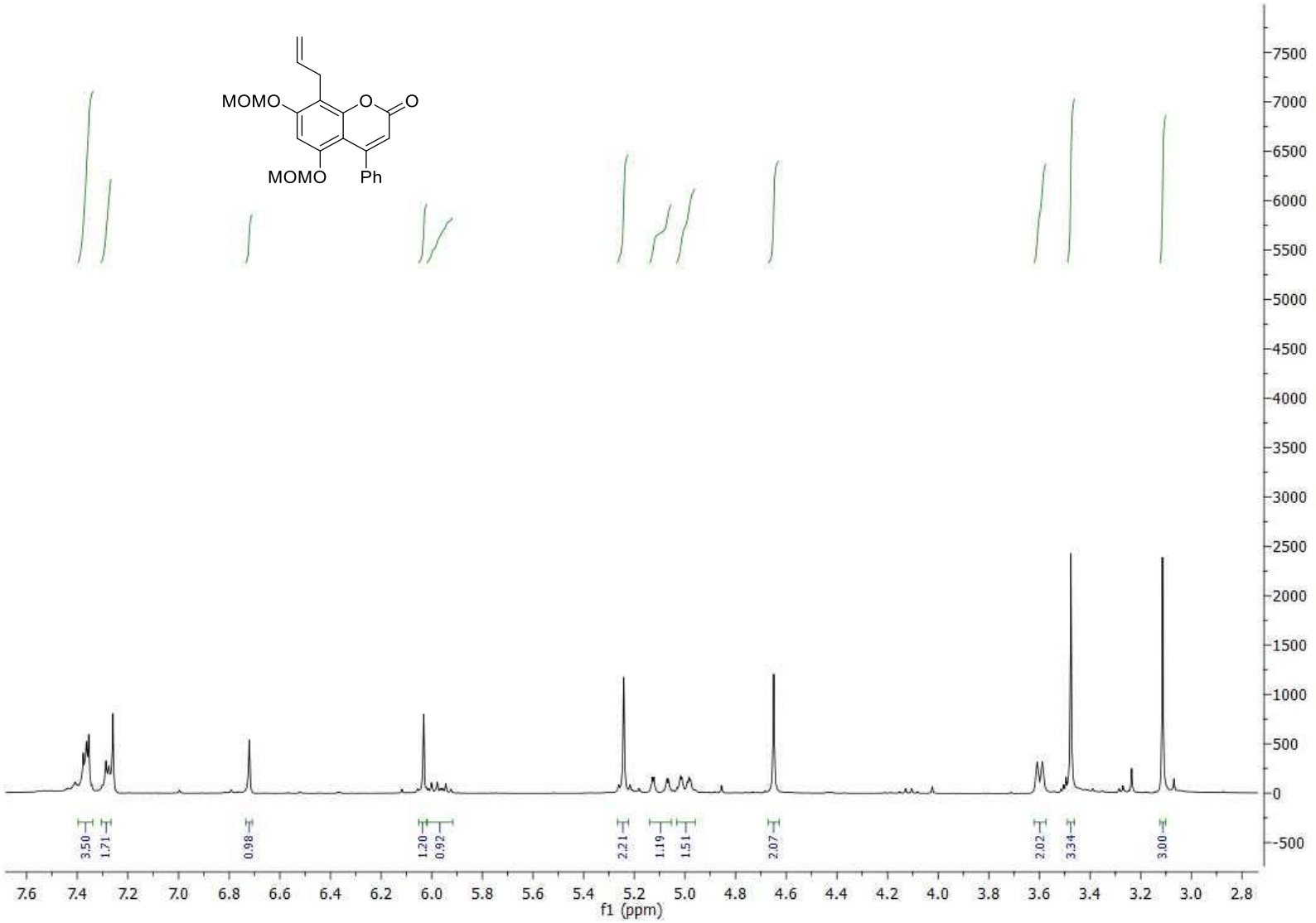
^{1}H NMR (300 MHz, $CDCl_3$) of **12a**



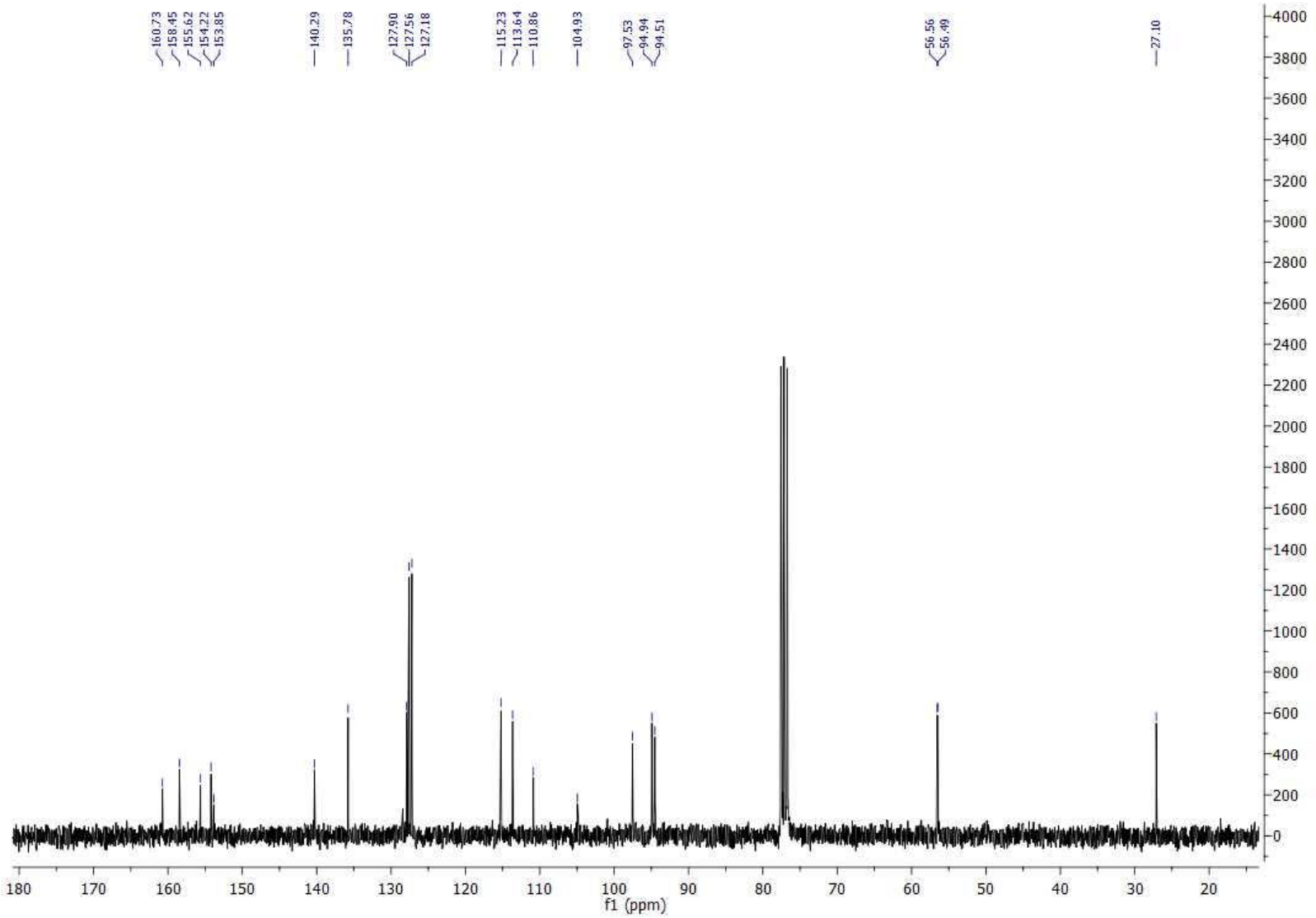
^{13}C NMR (75 MHz, $CDCl_3$) of **12a**



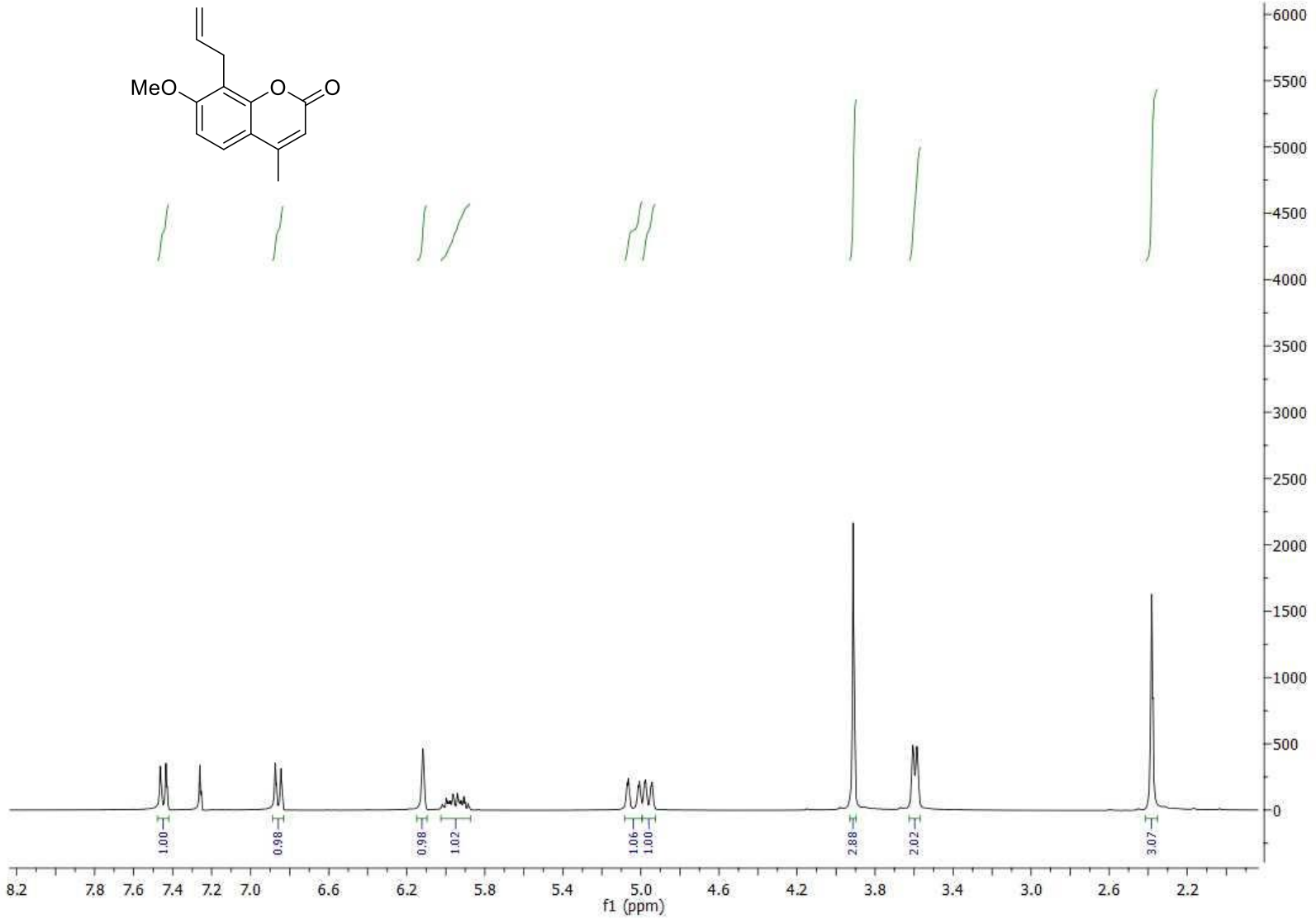
^{1}H NMR (300 MHz, $CDCl_3$) of **12b**



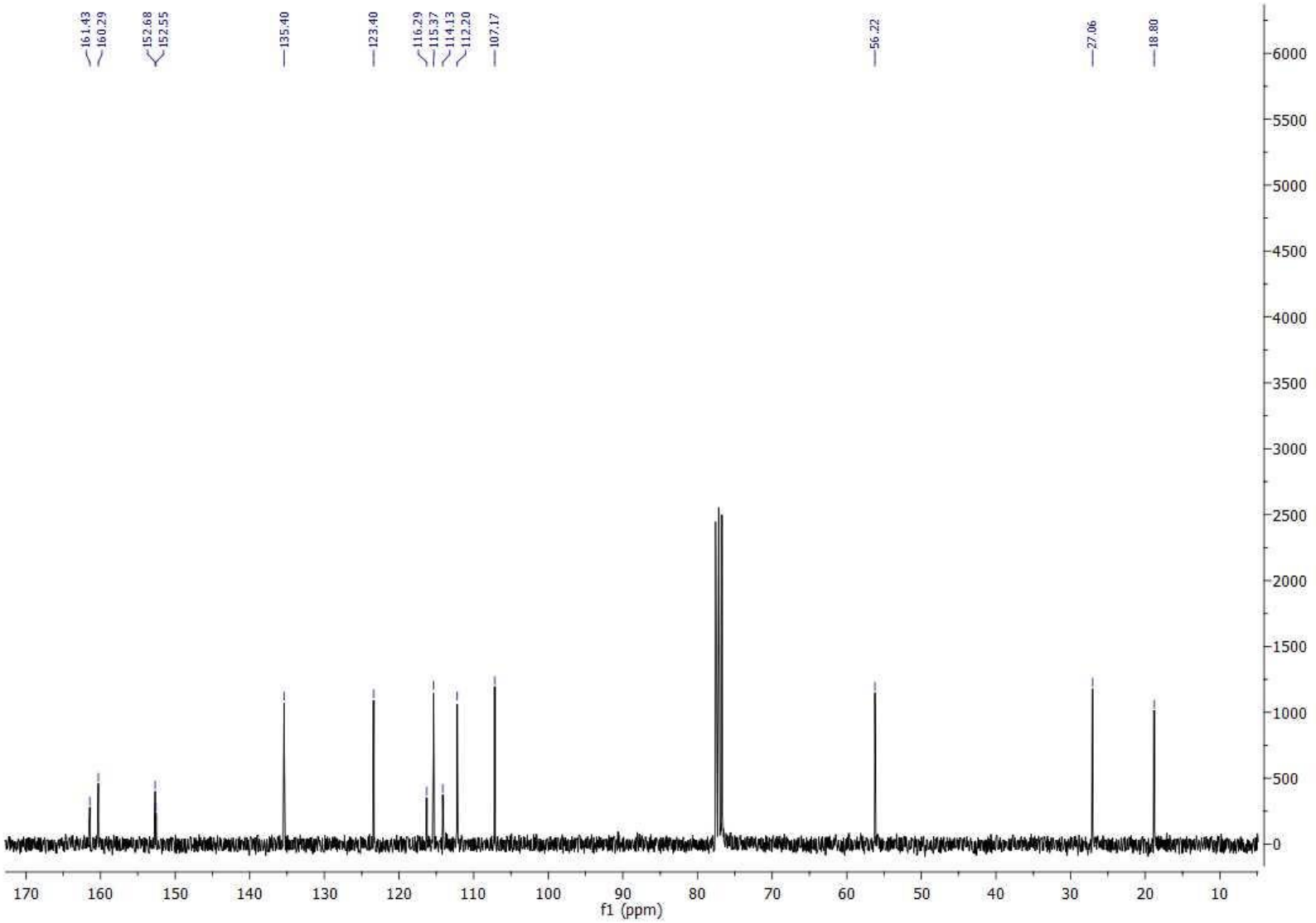
^{13}C NMR (75 MHz, $CDCl_3$) of **12b**



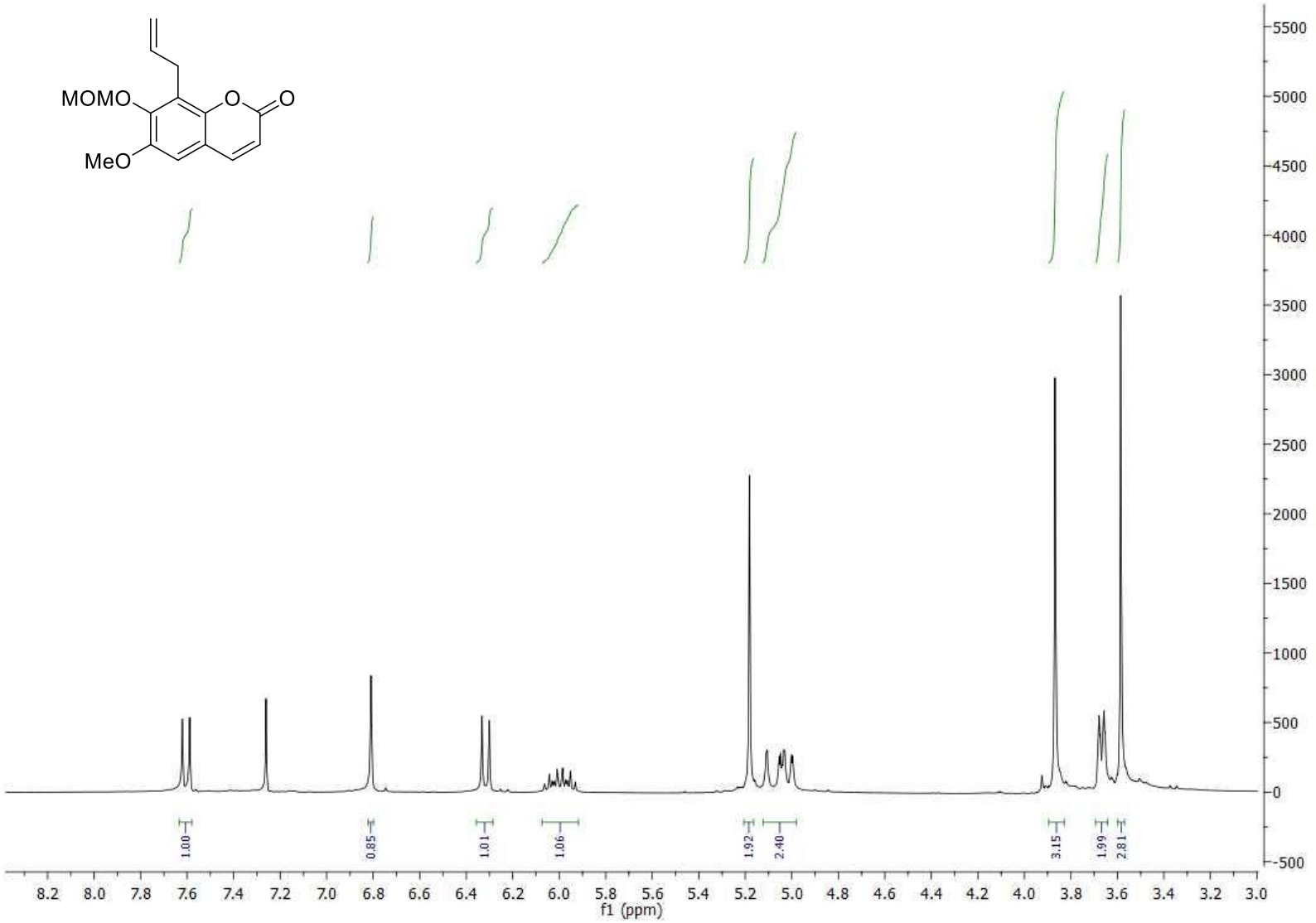
^{1}H NMR (300 MHz, $CDCl_3$) of **12h**



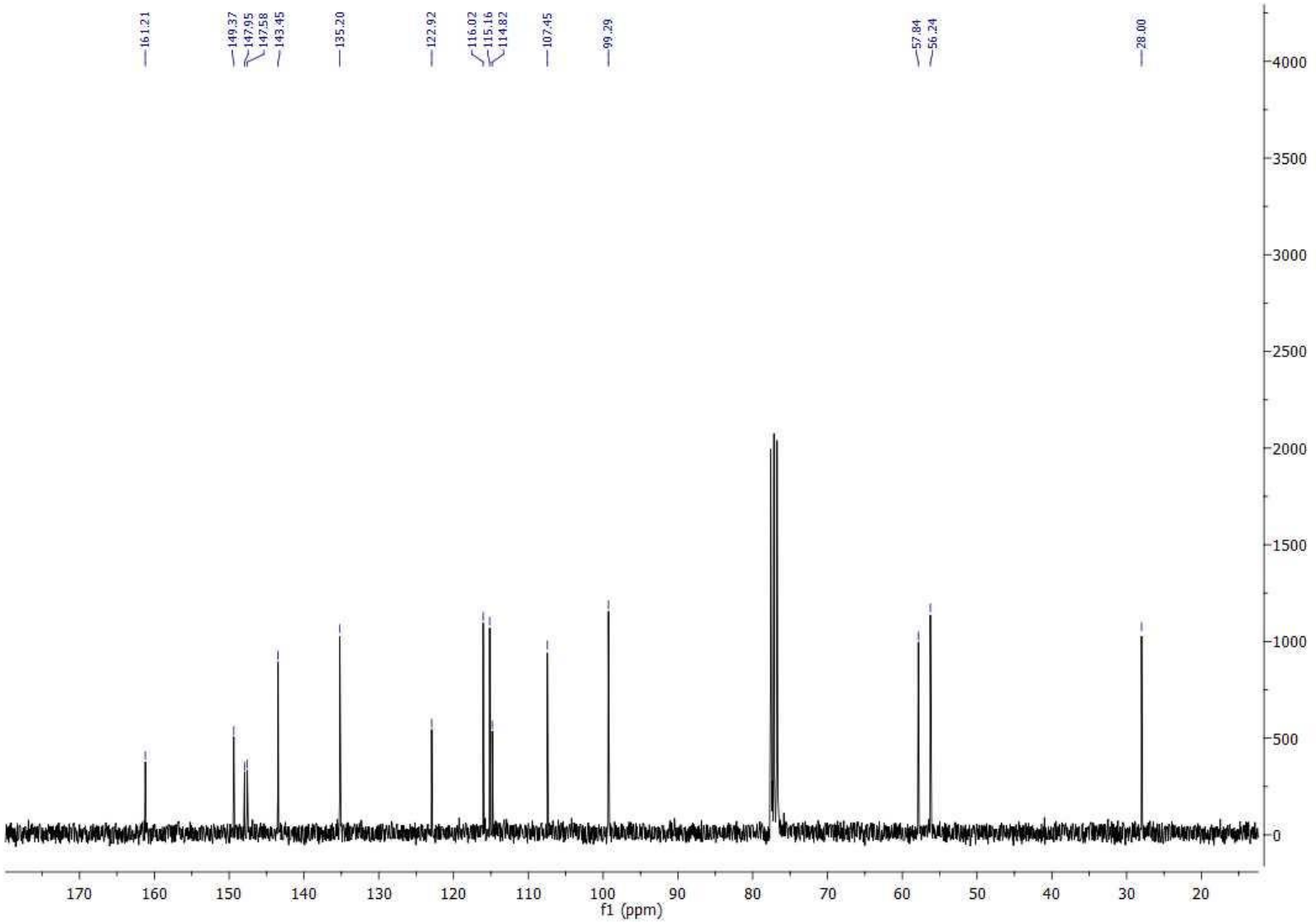
^{13}C NMR (75 MHz, $CDCl_3$) of **12h**



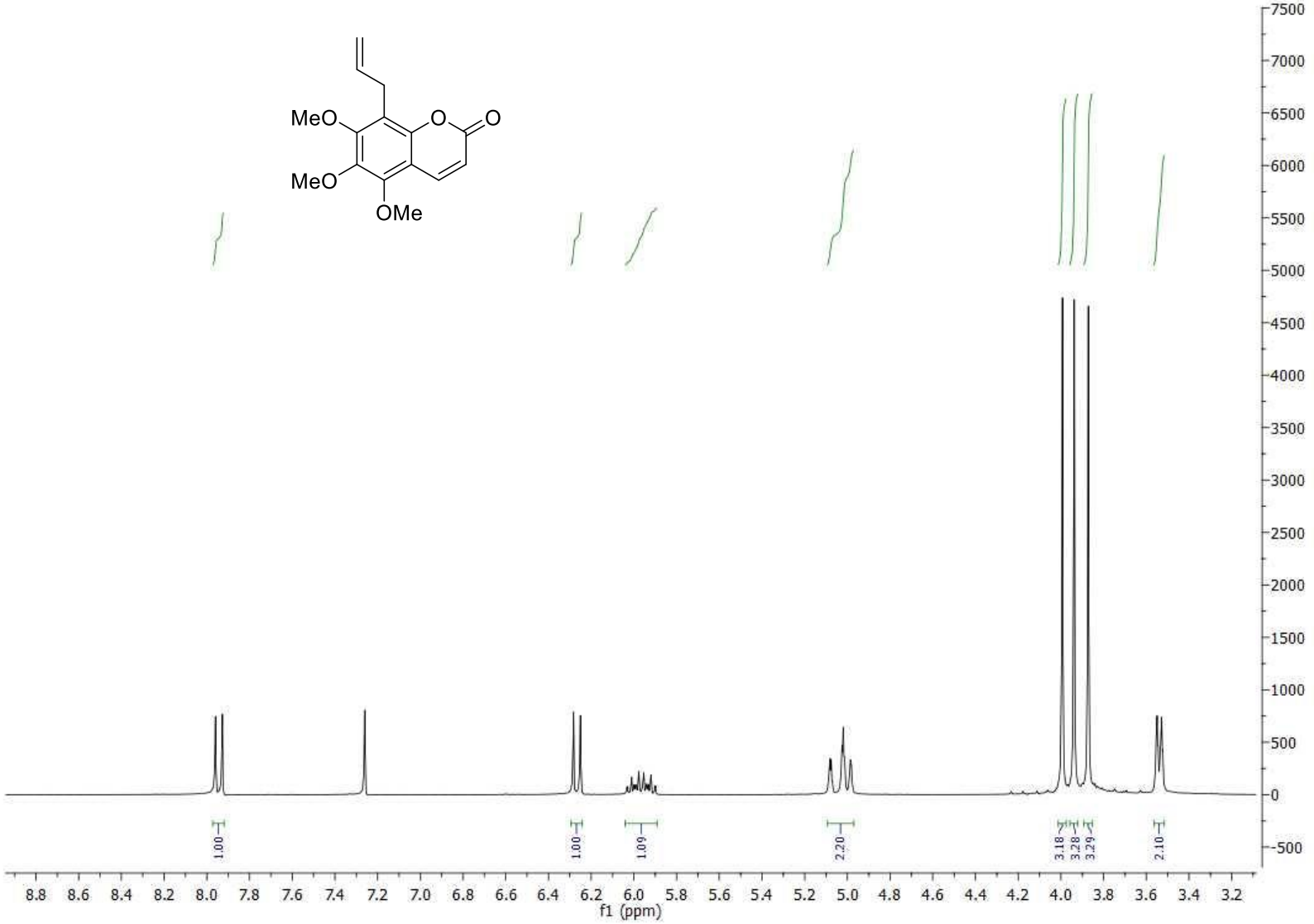
^{1}H NMR (300 MHz, $CDCl_3$) of **12k**



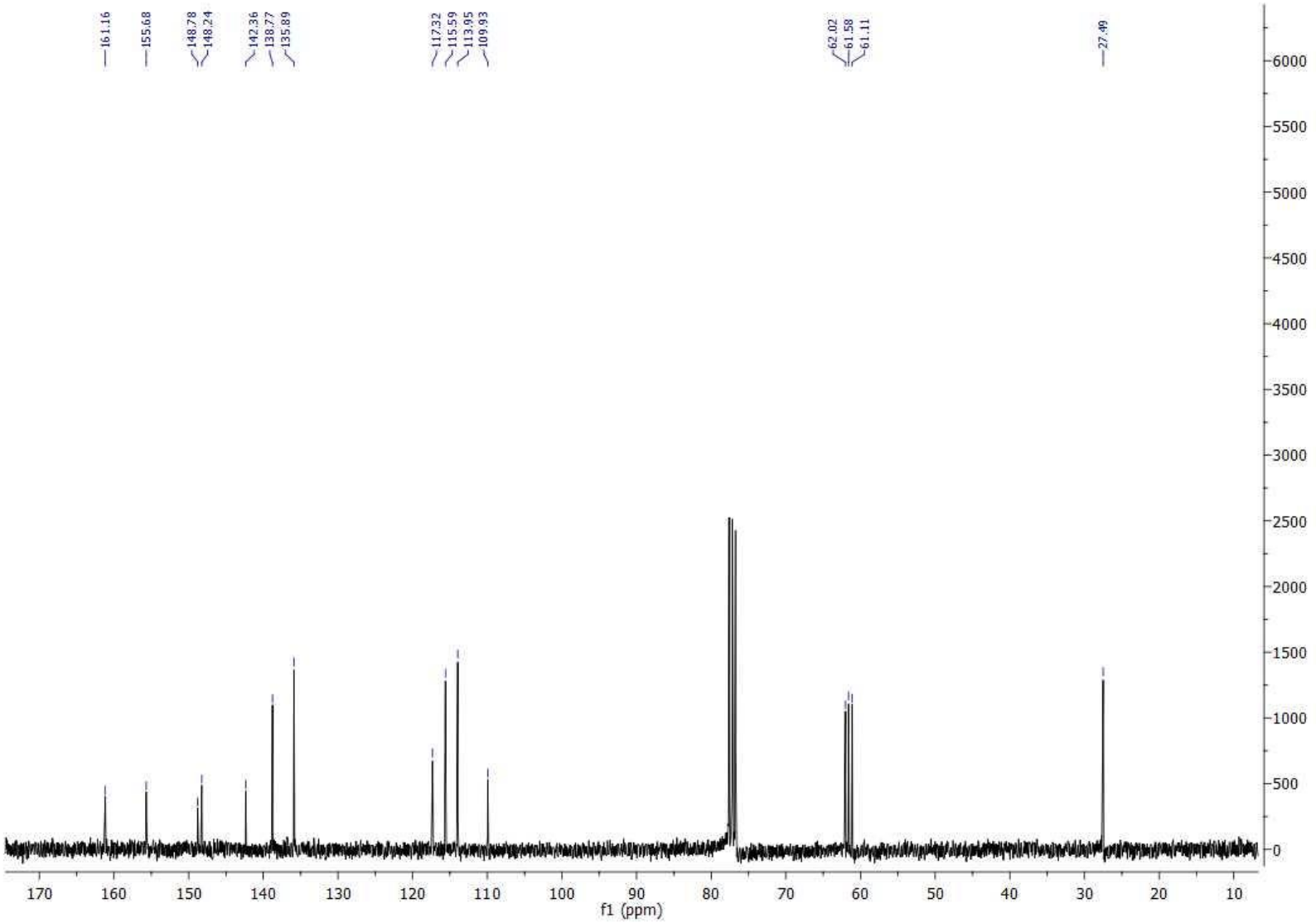
^{13}C NMR (75 MHz, $CDCl_3$) of **12k**



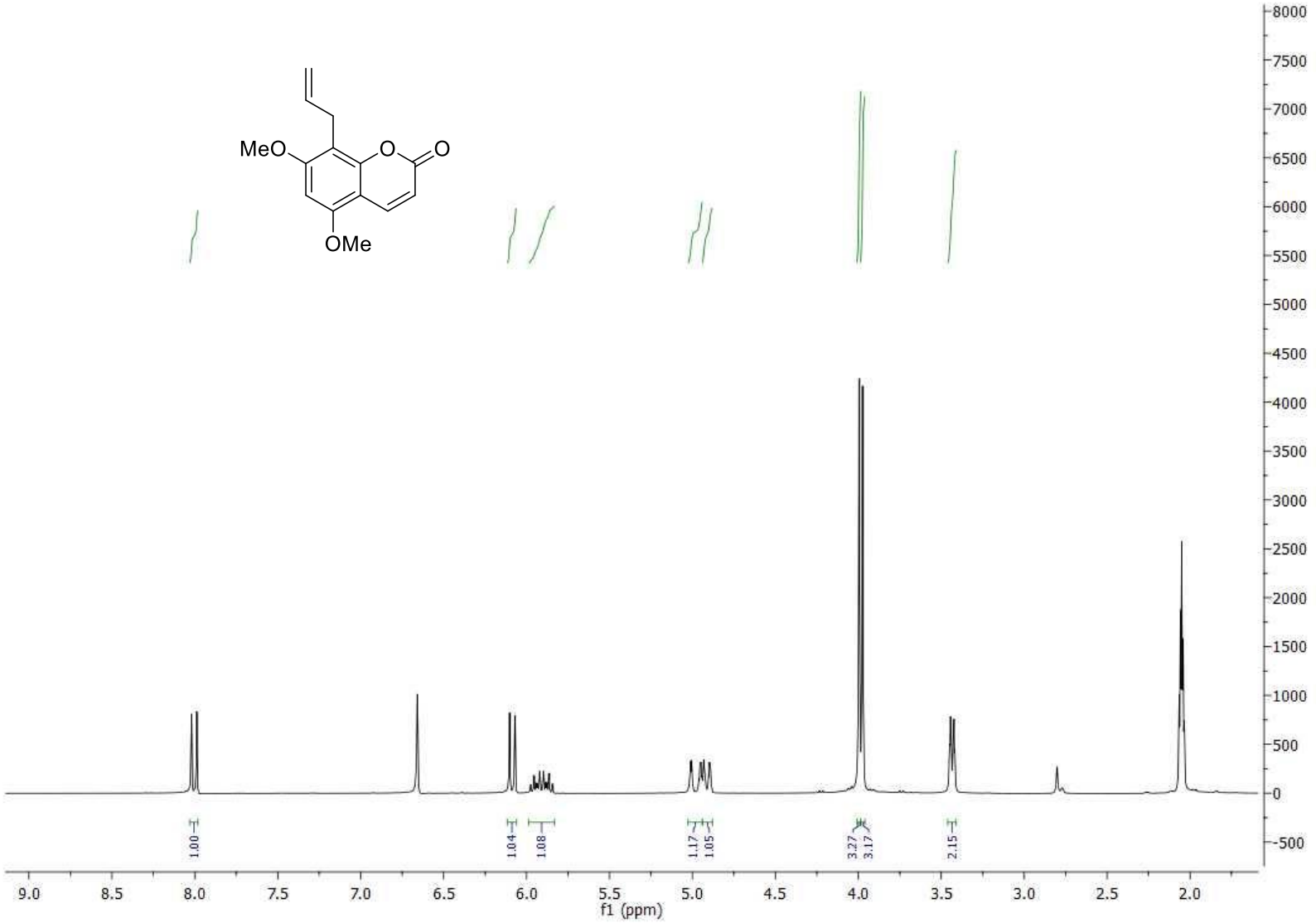
^{1}H NMR (300 MHz, $CDCl_3$) of **12l**



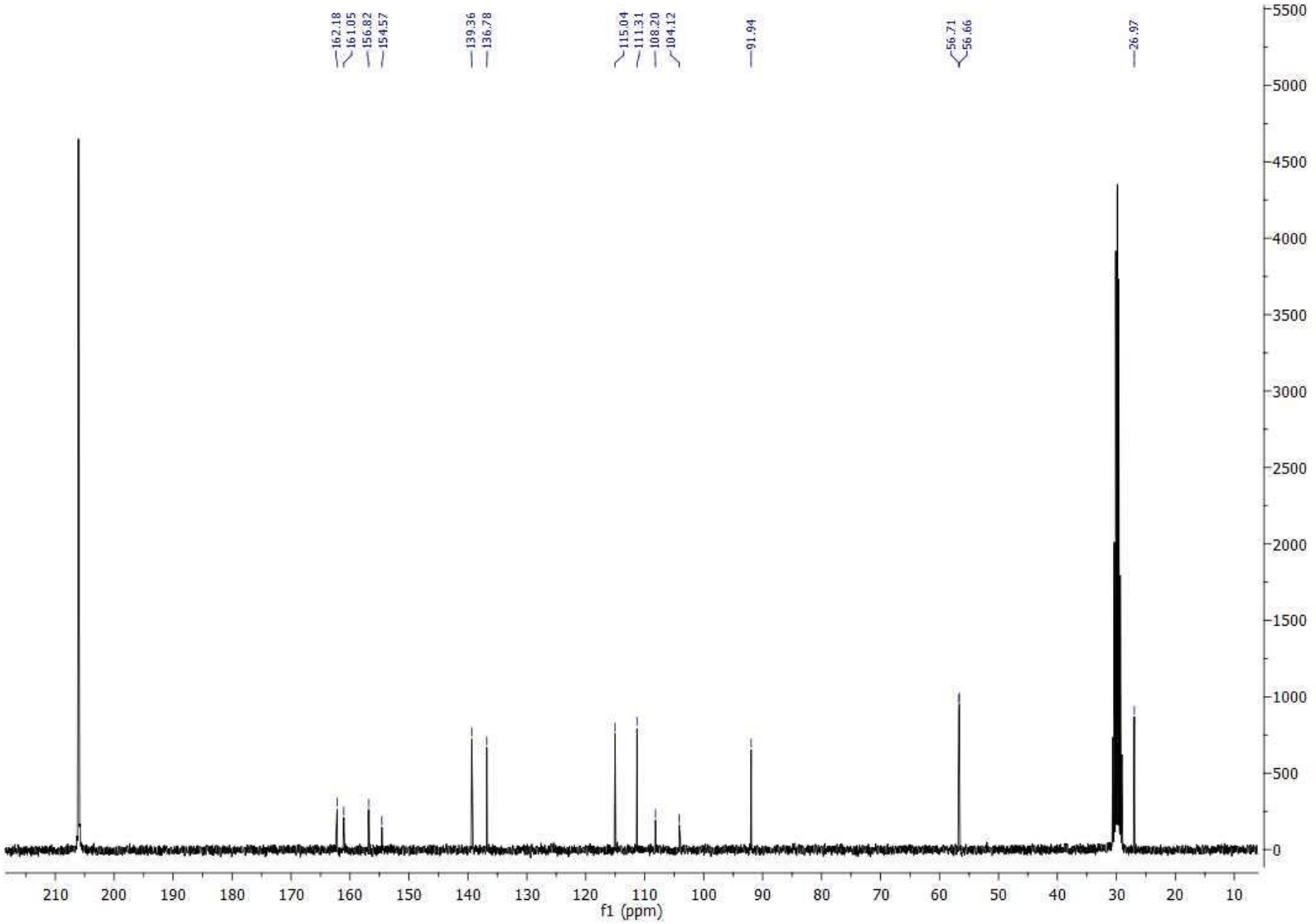
^{13}C NMR (75 MHz, $CDCl_3$) of **12l**



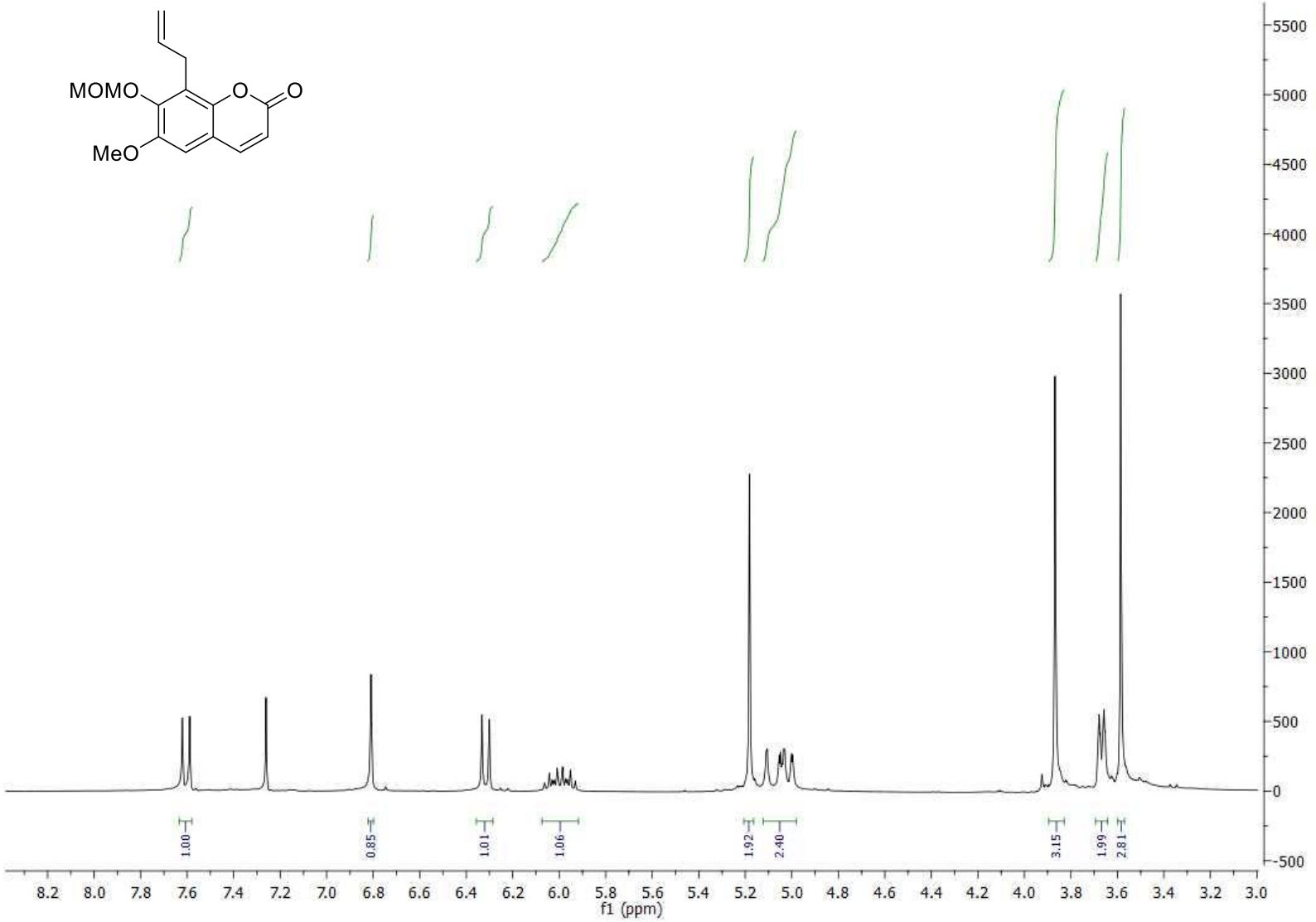
^{1}H NMR (300 MHz, $CDCl_3$) of **12n**



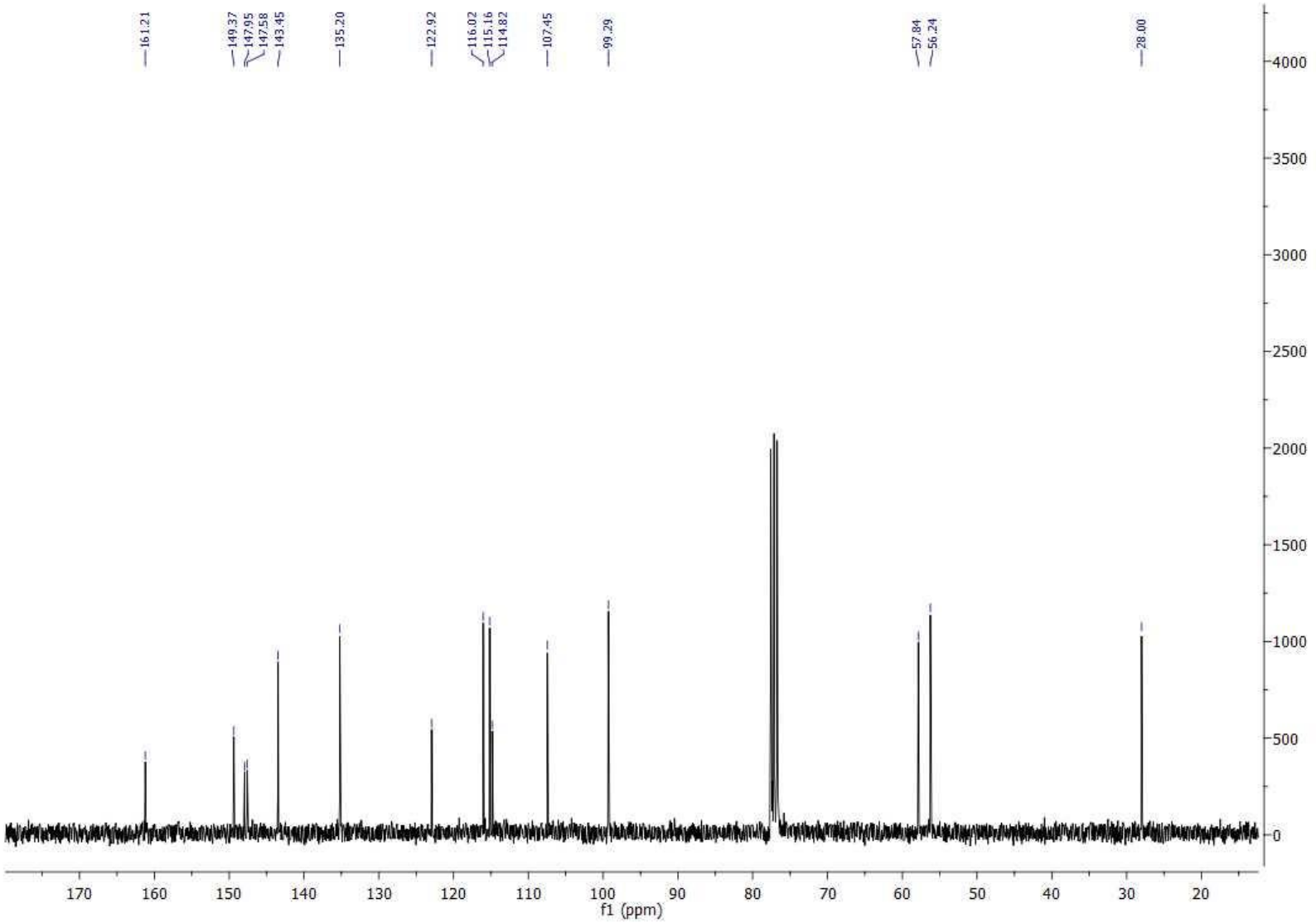
^{13}C NMR (75 MHz, $CDCl_3$) of **12n**



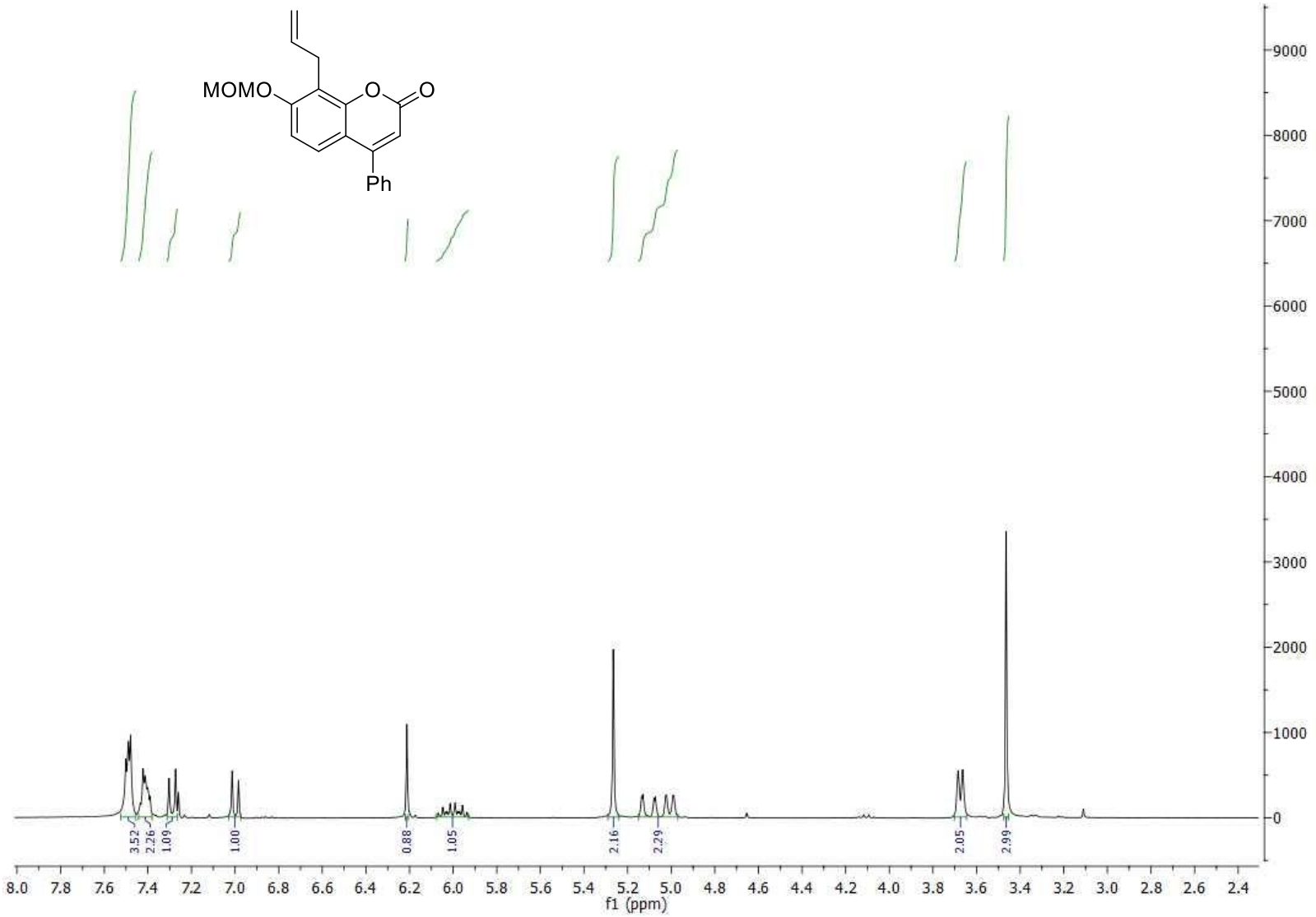
^{1}H NMR (300 MHz, $CDCl_3$) of **12o**



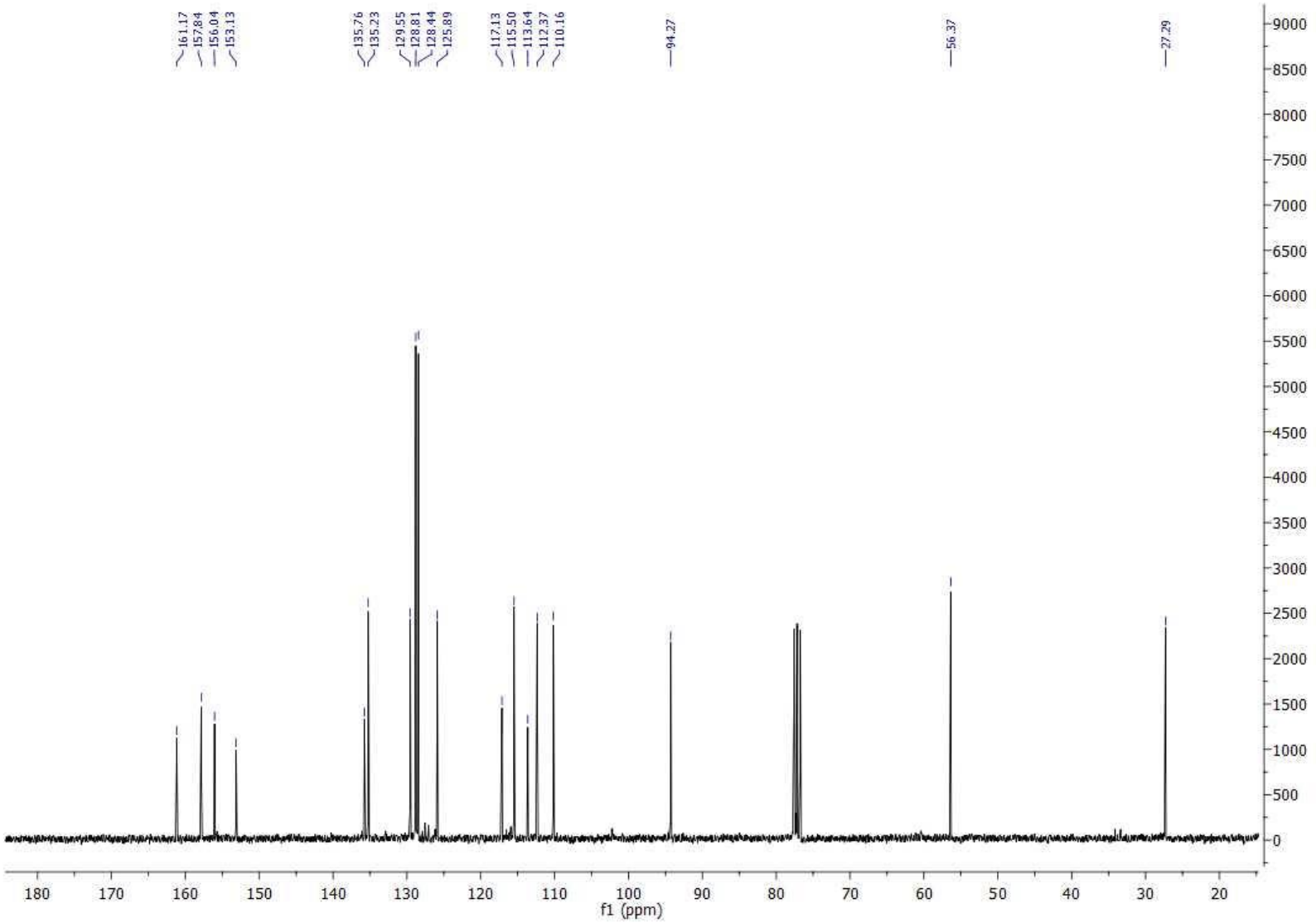
^{13}C NMR (75 MHz, $CDCl_3$) of **12o**



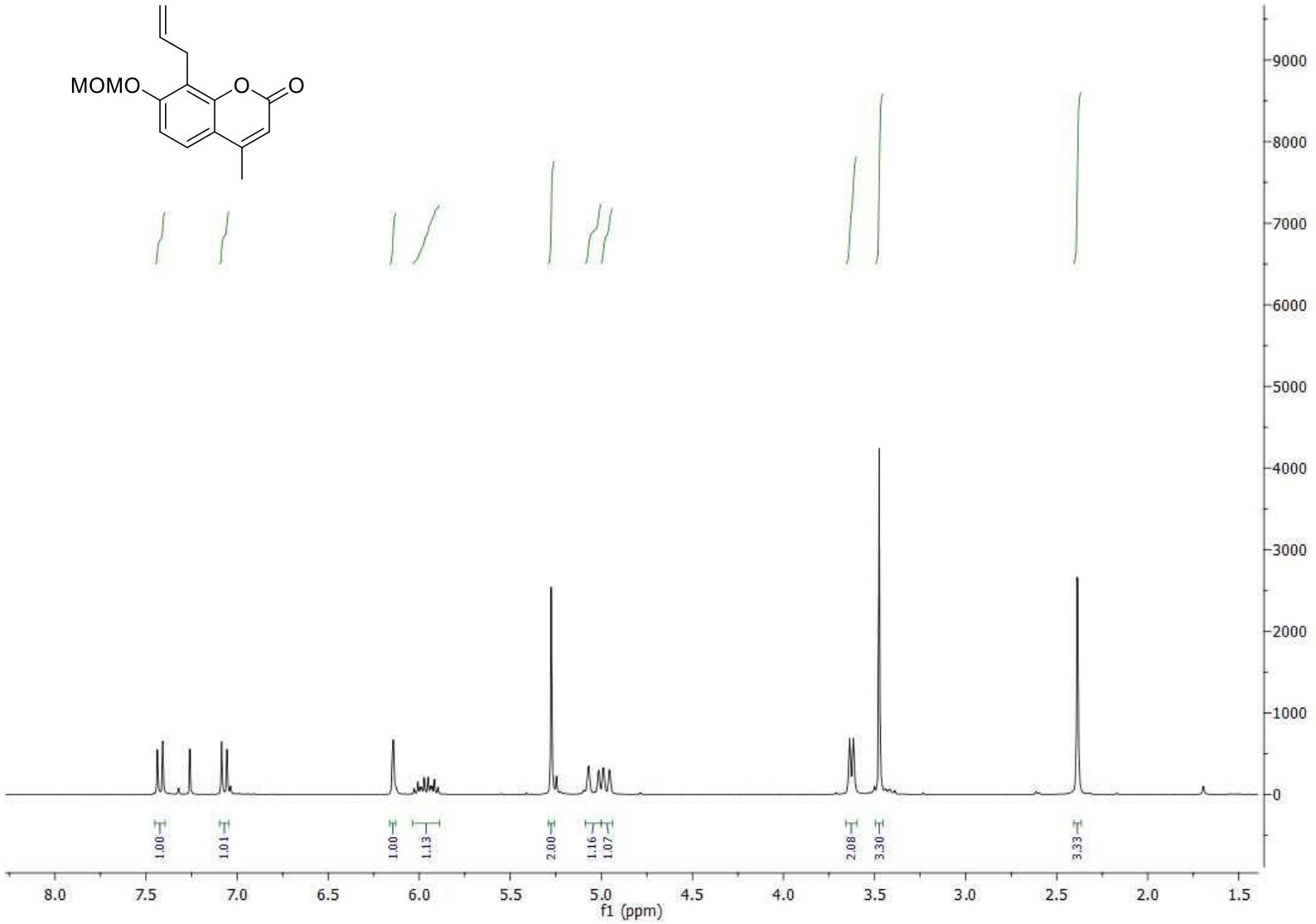
^{1}H NMR (300 MHz, $CDCl_3$) of **12p**



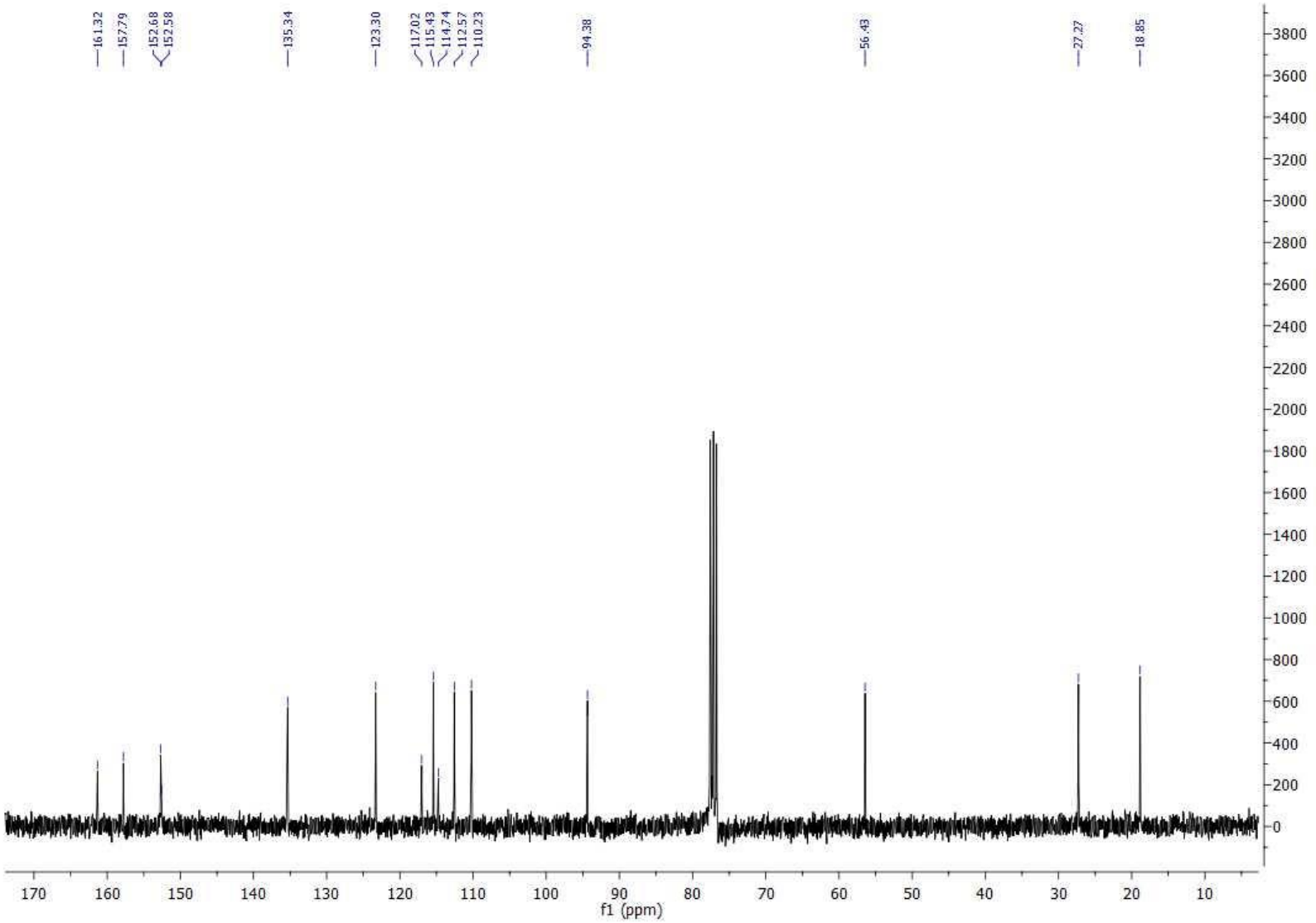
^{13}C NMR (75 MHz, $CDCl_3$) of **12p**



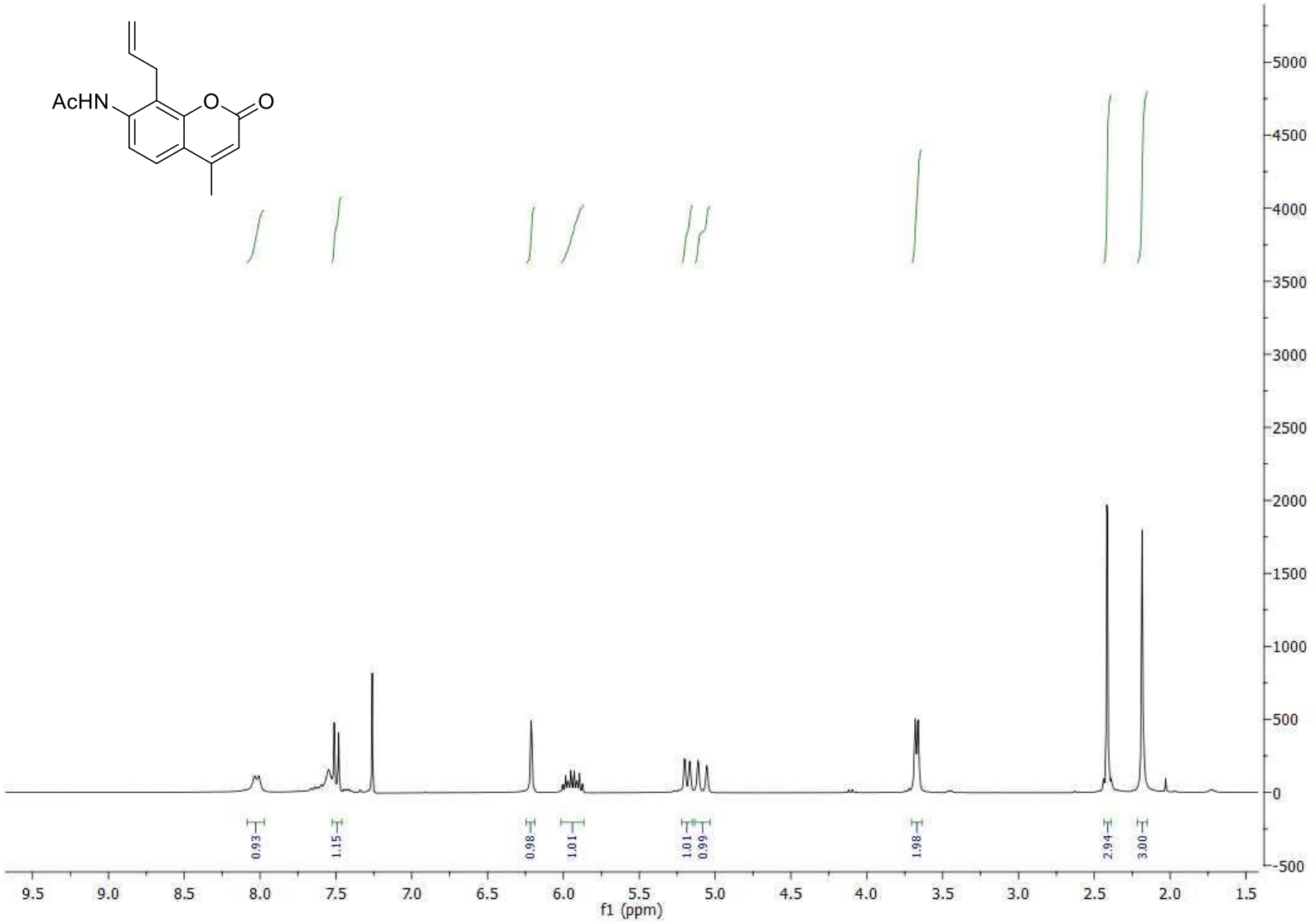
^{1}H NMR (300 MHz, $CDCl_3$) of **12q**



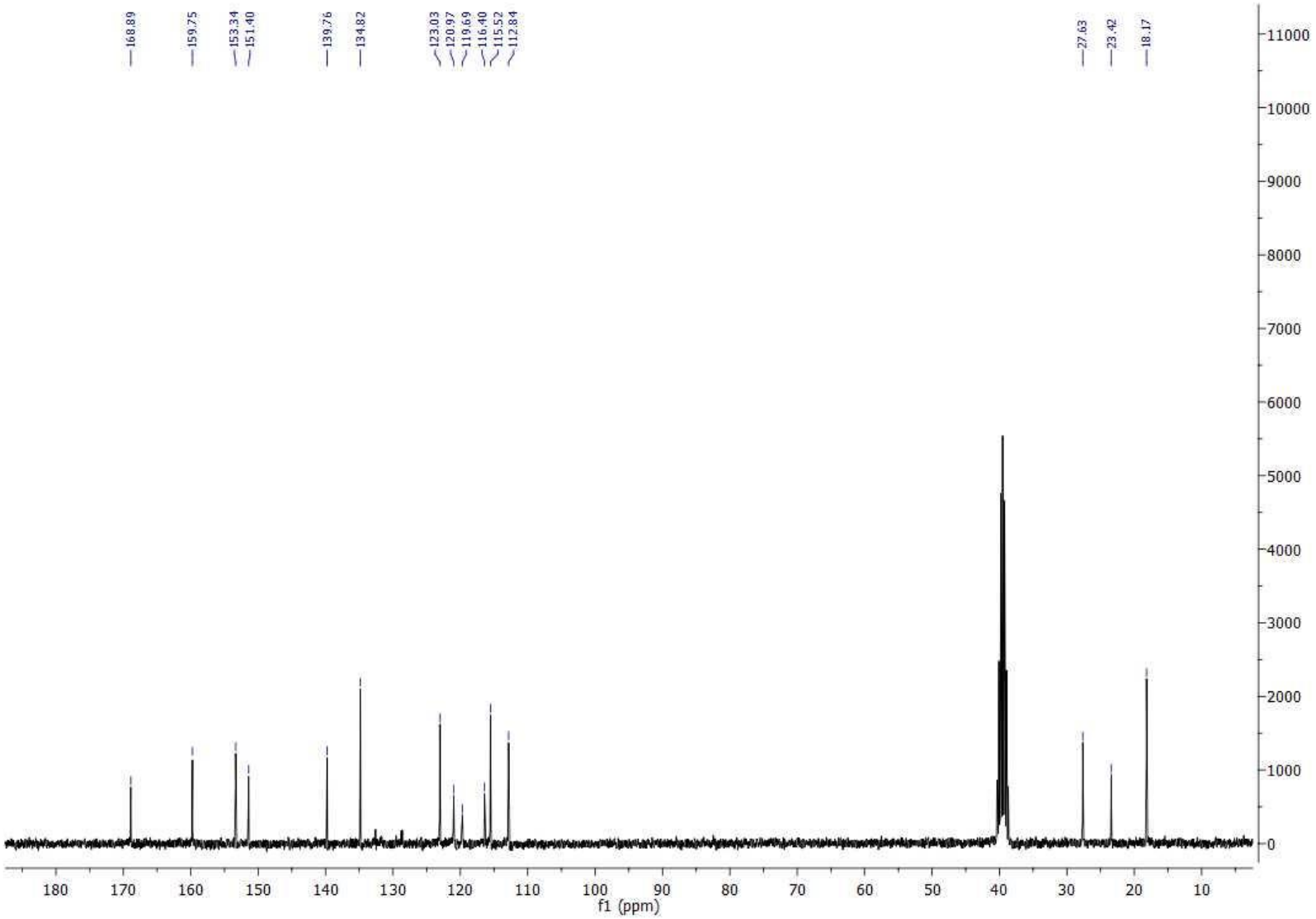
^{13}C NMR (75 MHz, $CDCl_3$) of **12q**



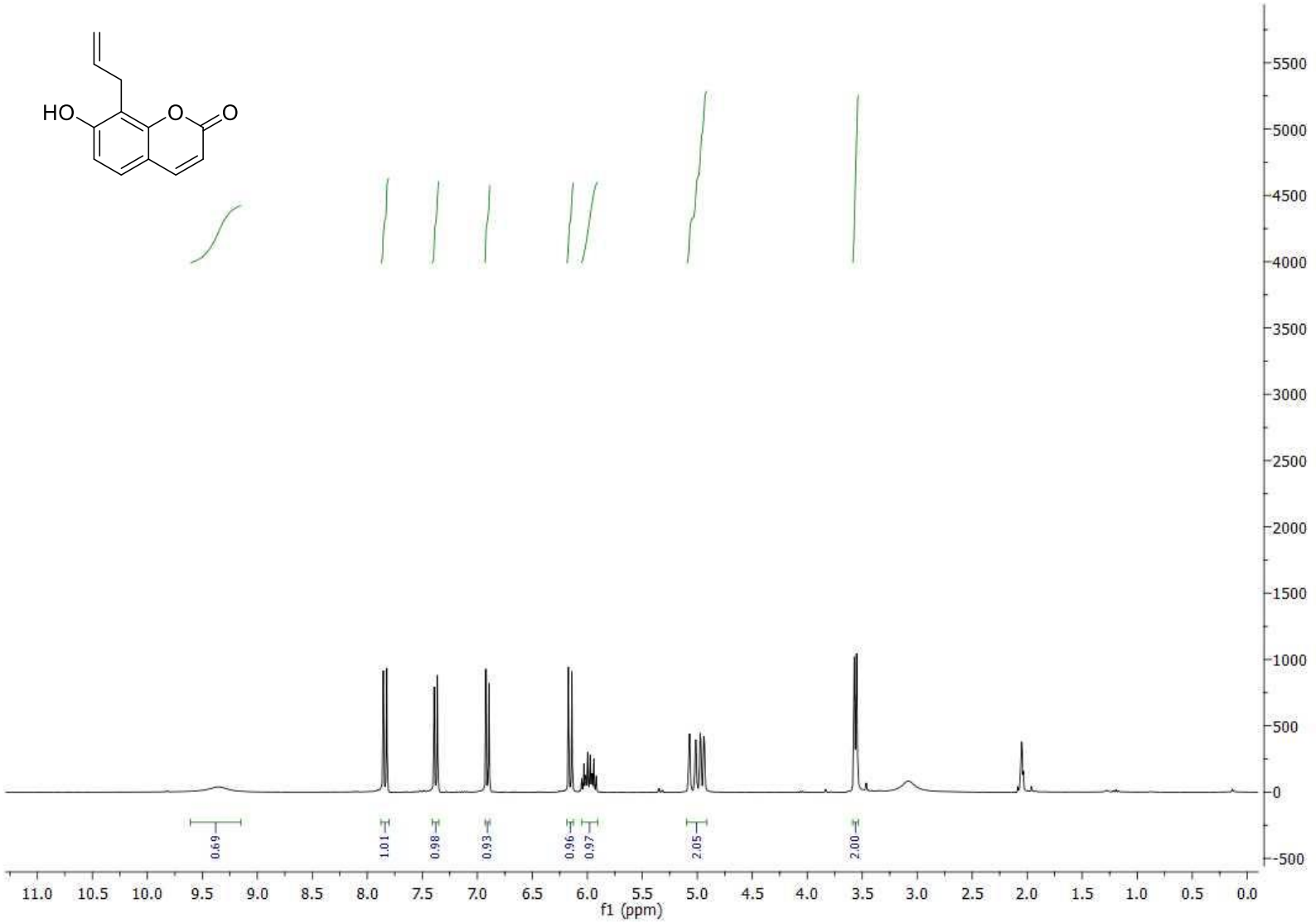
^{1}H NMR (300 MHz, $CDCl_3$) of **12r**



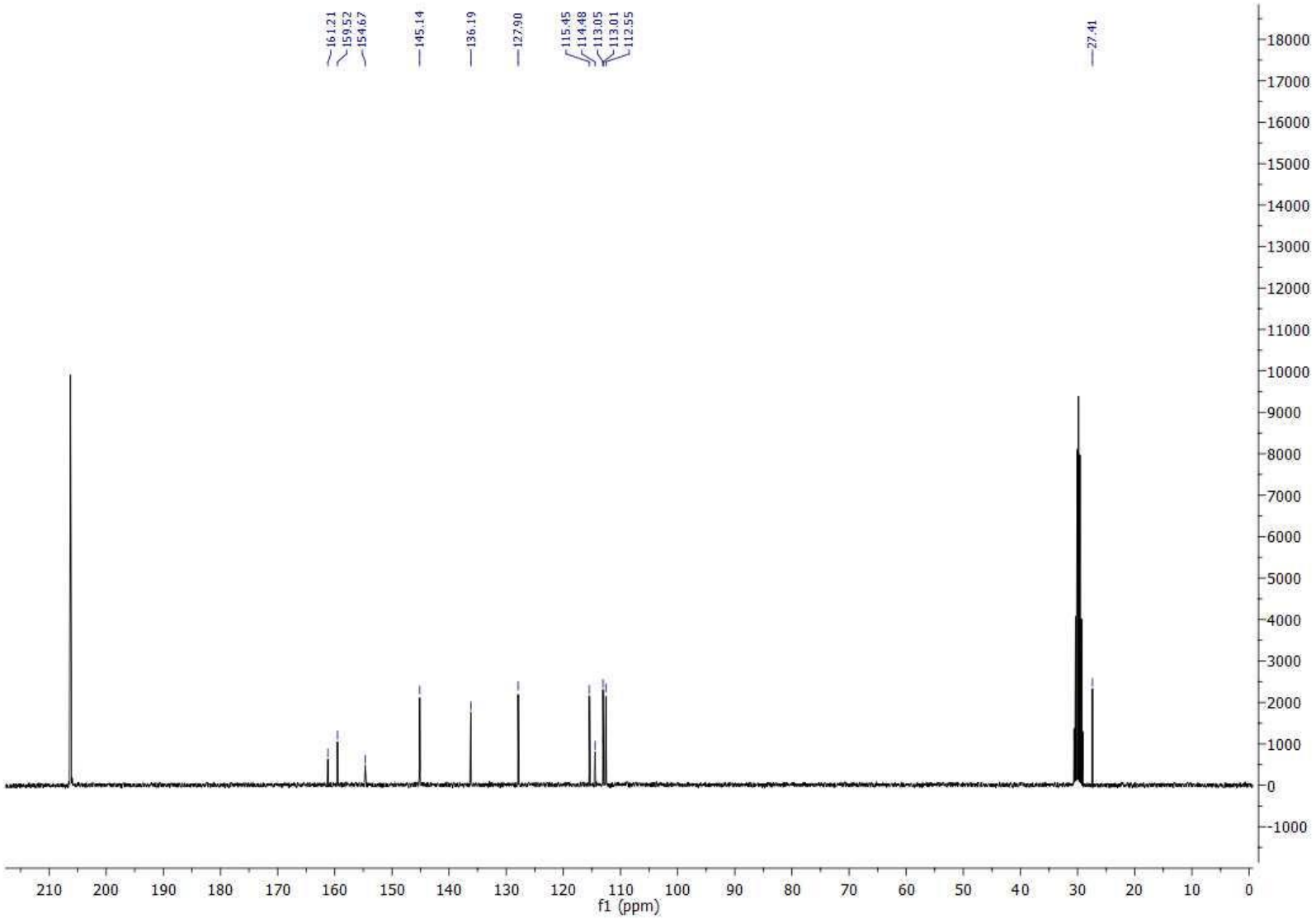
^{13}C NMR (75 MHz, $CDCl_3$) of **12r**



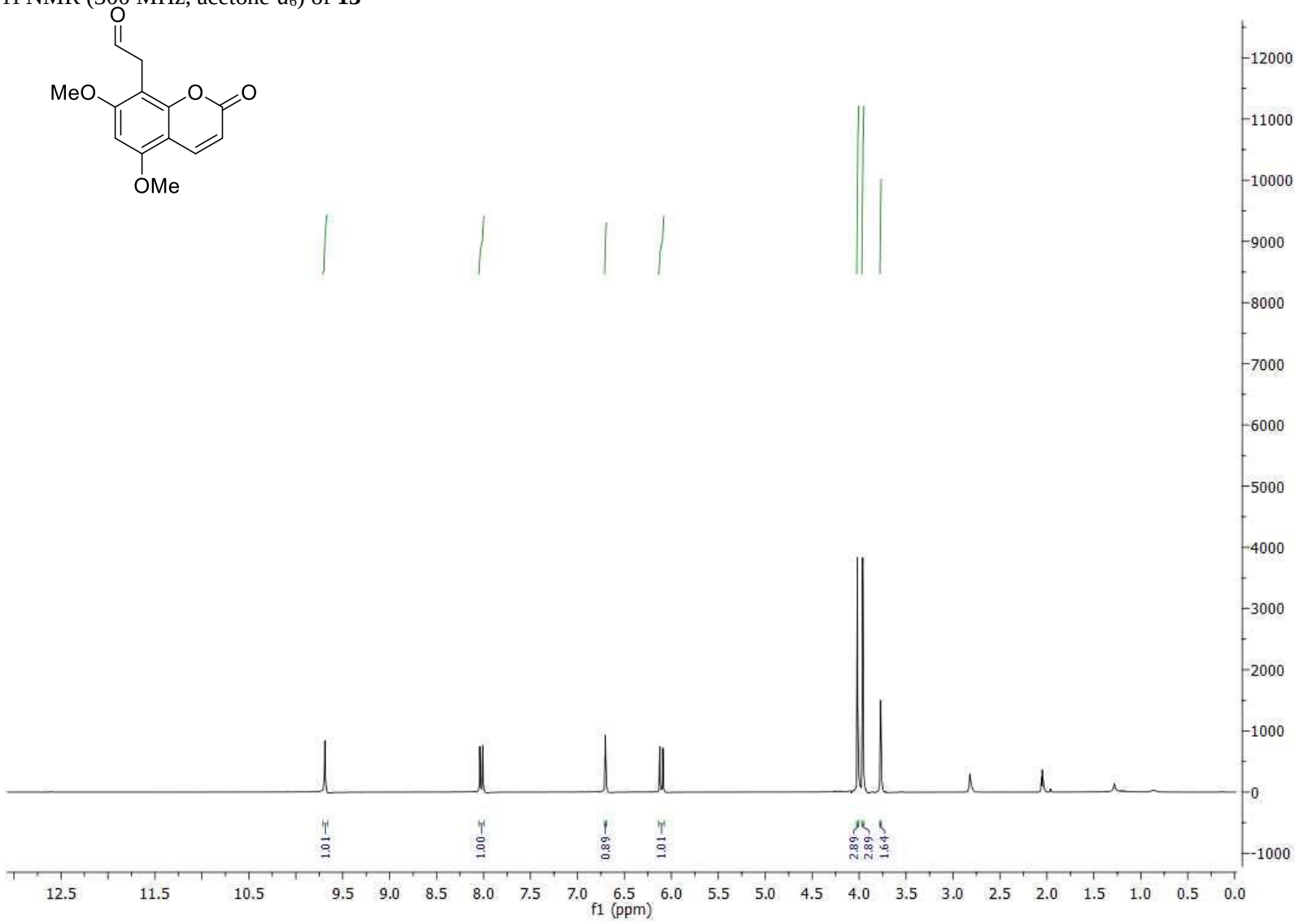
^{1}H NMR (300 MHz, $CDCl_3$) of **12o'**



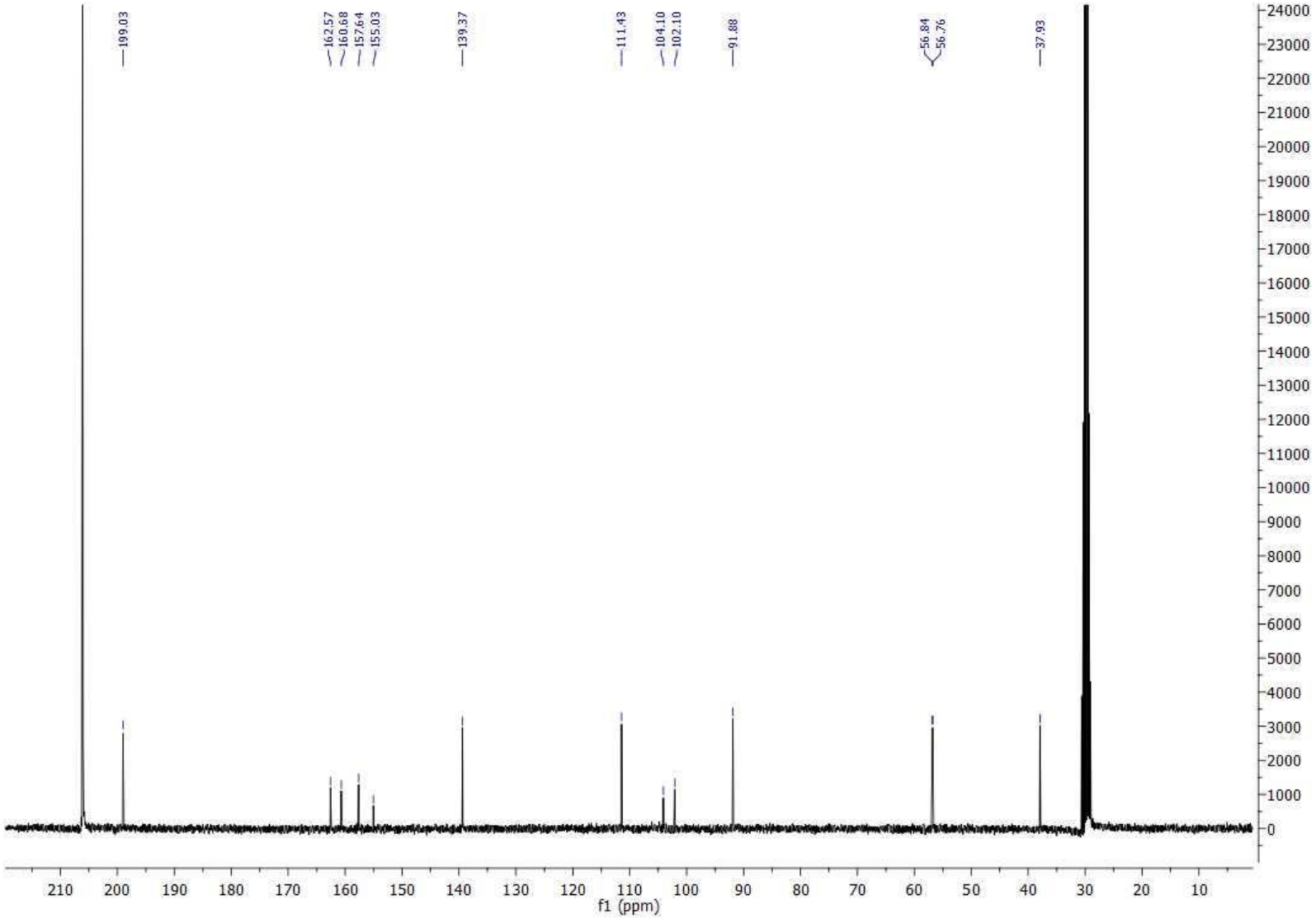
^{13}C NMR (75 MHz, $CDCl_3$) of **12o'**



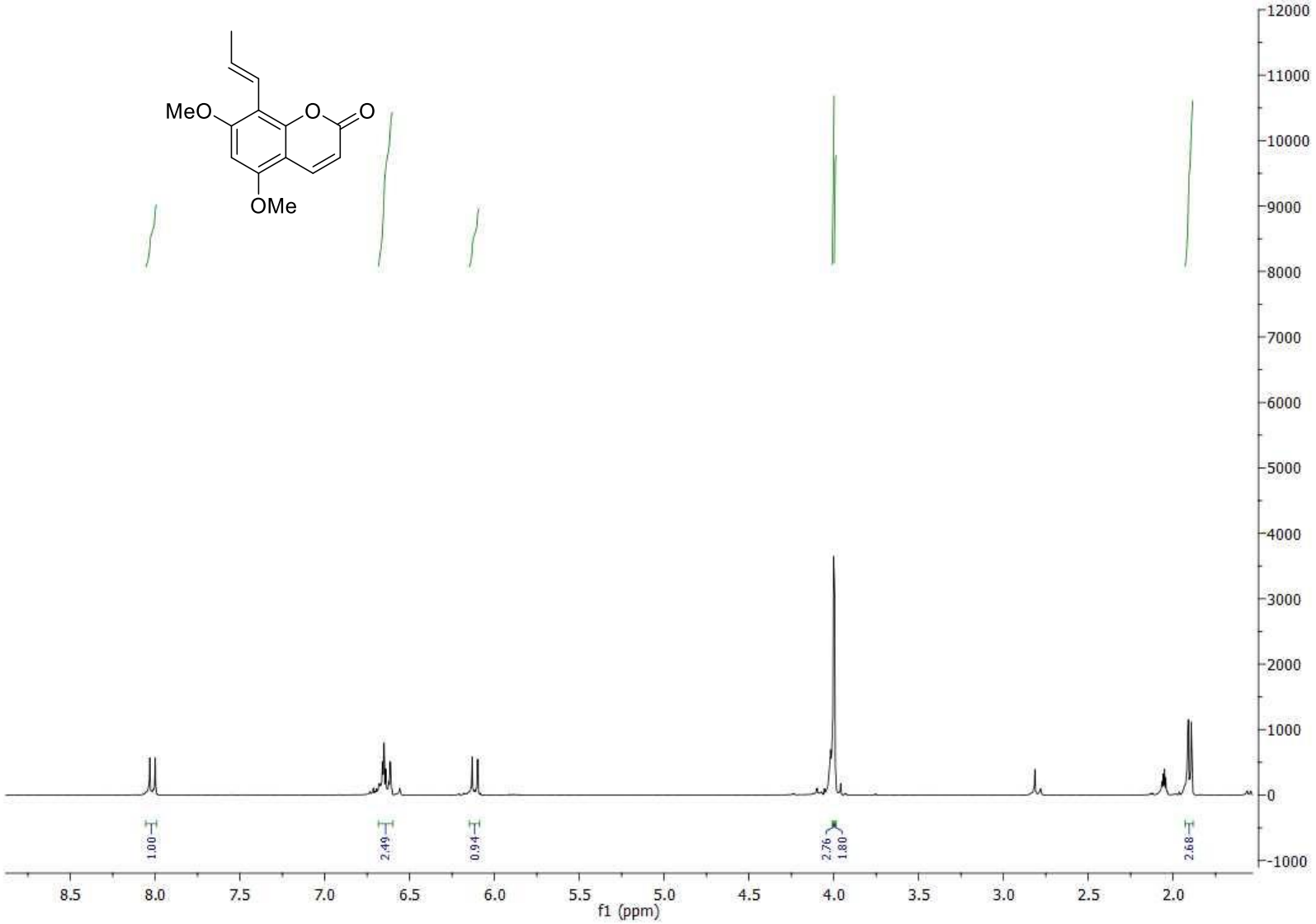
^{1}H NMR (300 MHz, acetone-d_6) of **13**



^{13}C NMR (75 MHz, acetone-d_6) of **13**



^{1}H NMR (300 MHz, acetone-d_6) of **14**



^{13}C NMR (75 MHz, acetone-d_6) of **14**