Supporting Information for:

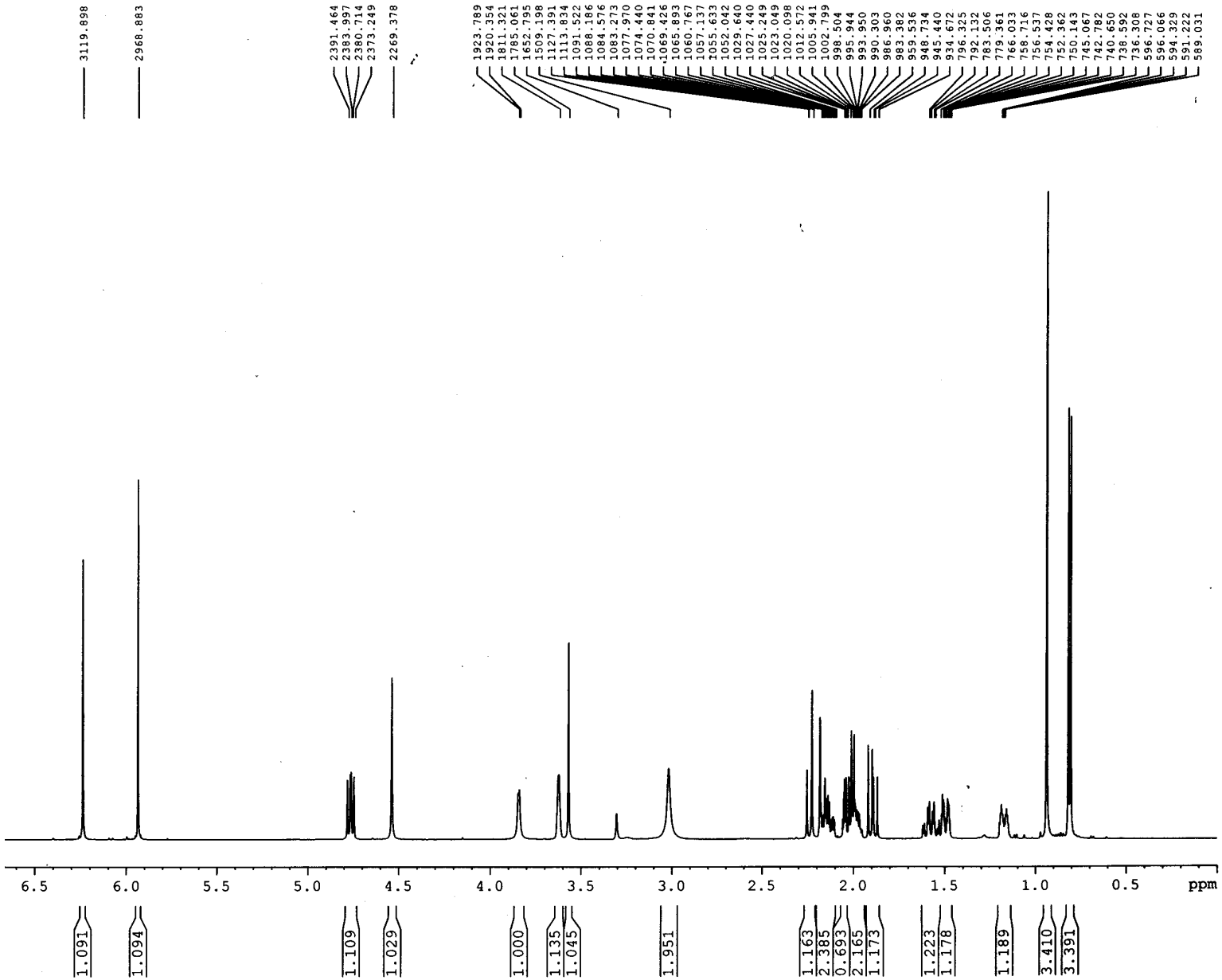
Eremophilane-type Sesquiterpenes from the Fungus *Xylaria* sp. BCC 21097

Masahiko Isaka,* Panida Chinthanom, Tanapong Boonruangprapa, Nattawut Rungjindamai, and Umpava Pinruan

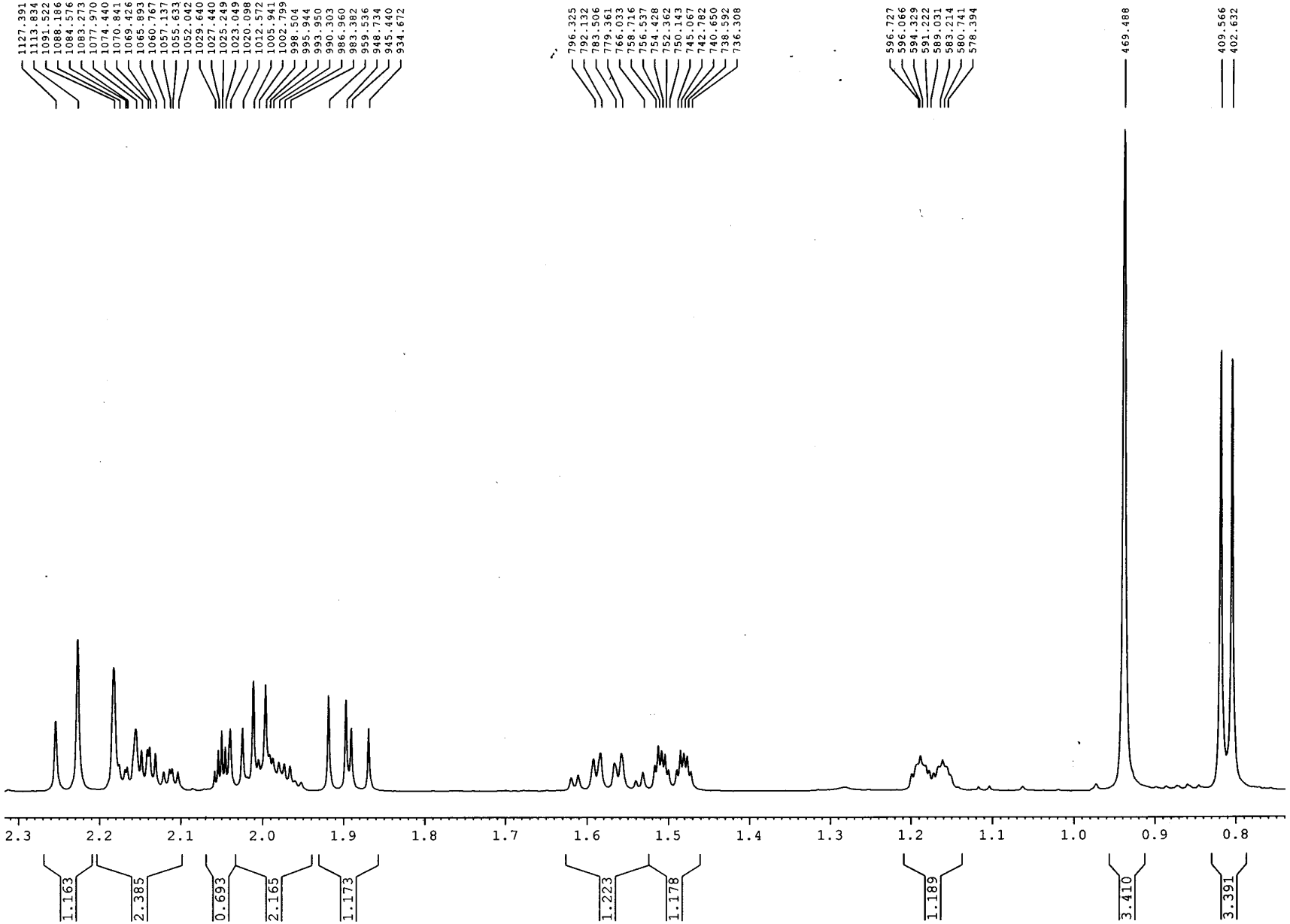
National Center for Genetic Engineering and Biotechnology (BIOTEC), 113 Thailand Science Park, Phaholyothin Road, Klong Luang, Pathumthani 12120, Thailand

Contents

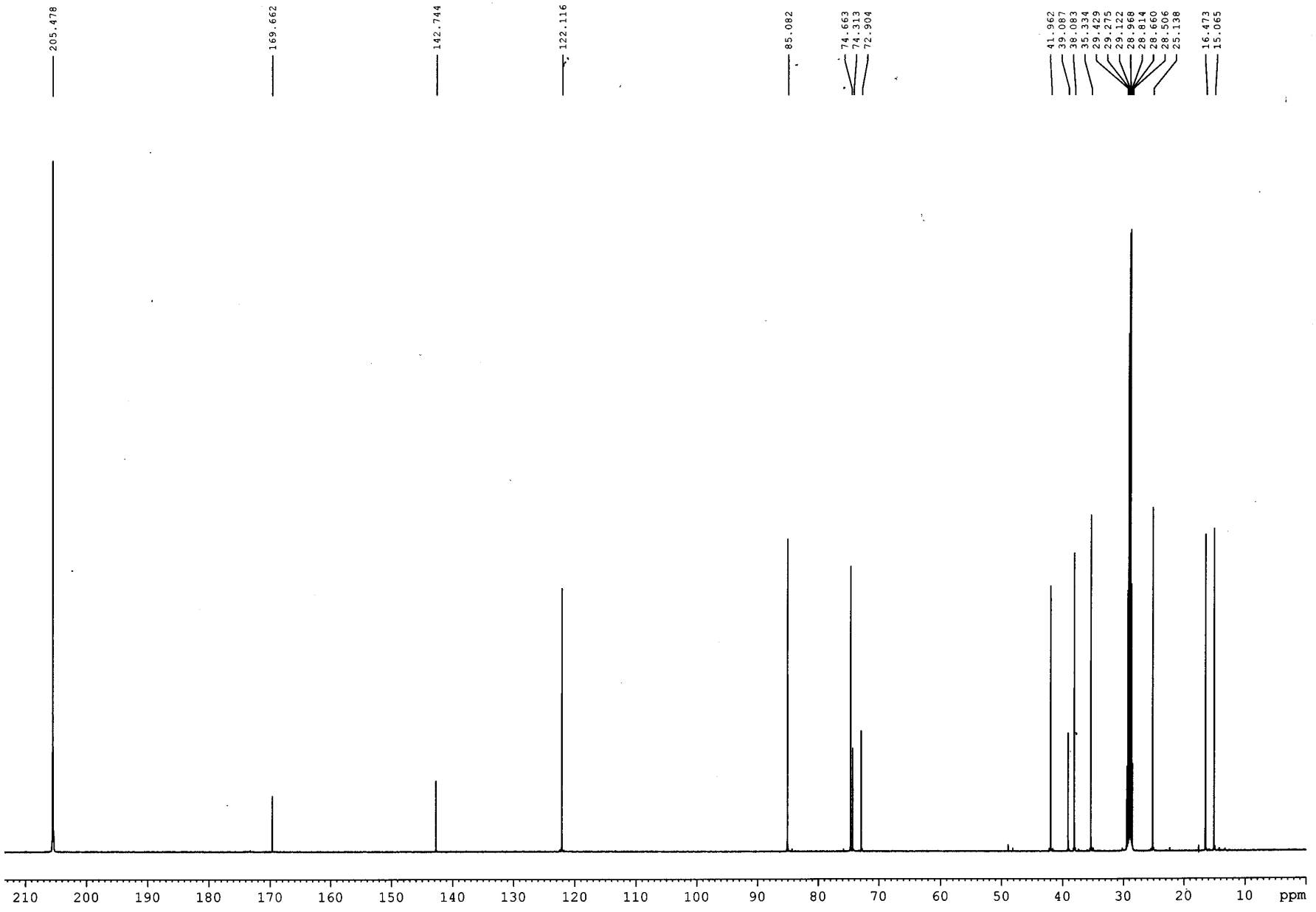
S1 ^{1}H NMR spectrum of **1** (acetone-d_6, 500 MHz)



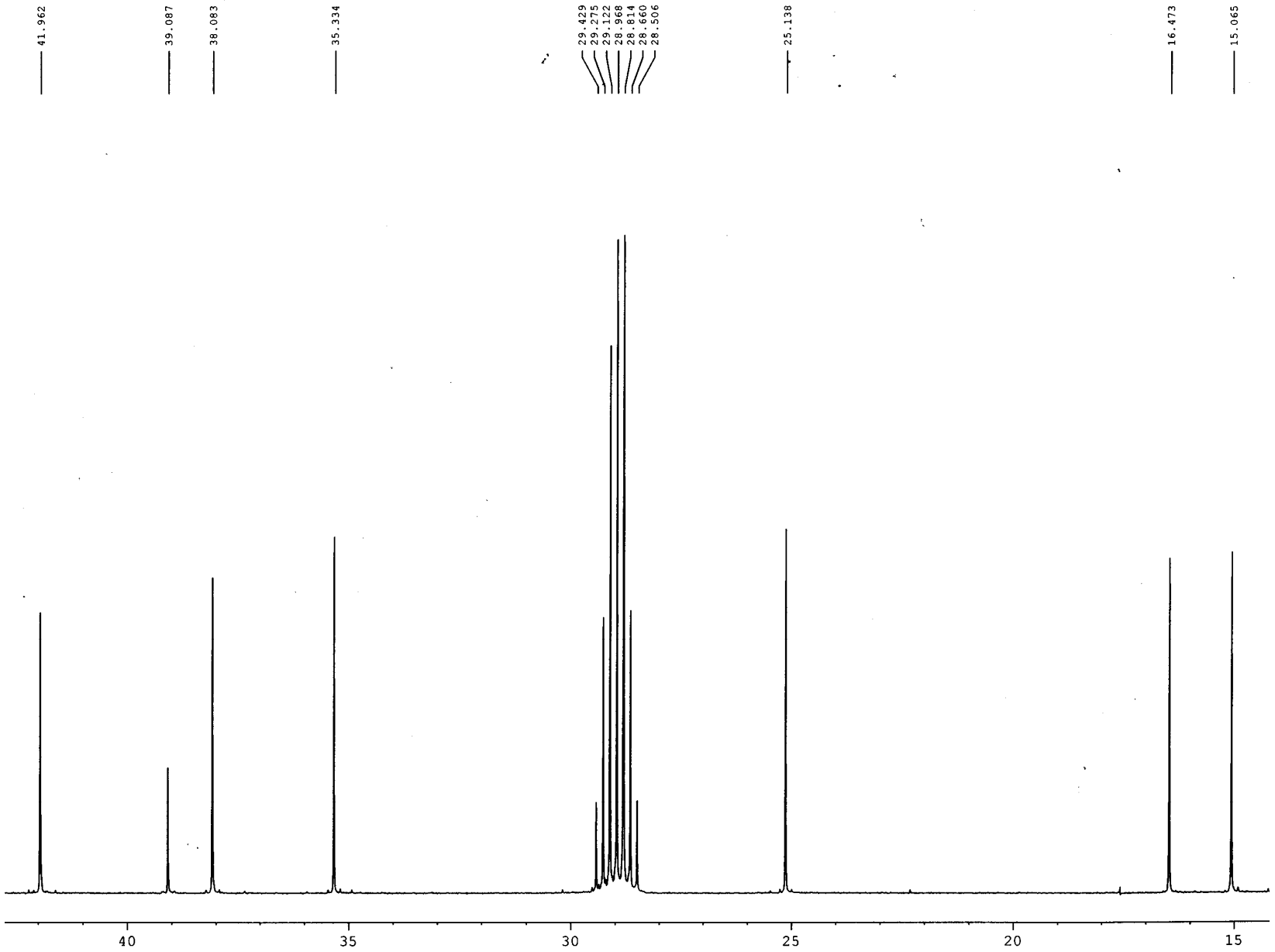
S2 ^{1}H NMR spectrum of **1** (acetone-d_6, 500 MHz), expanded



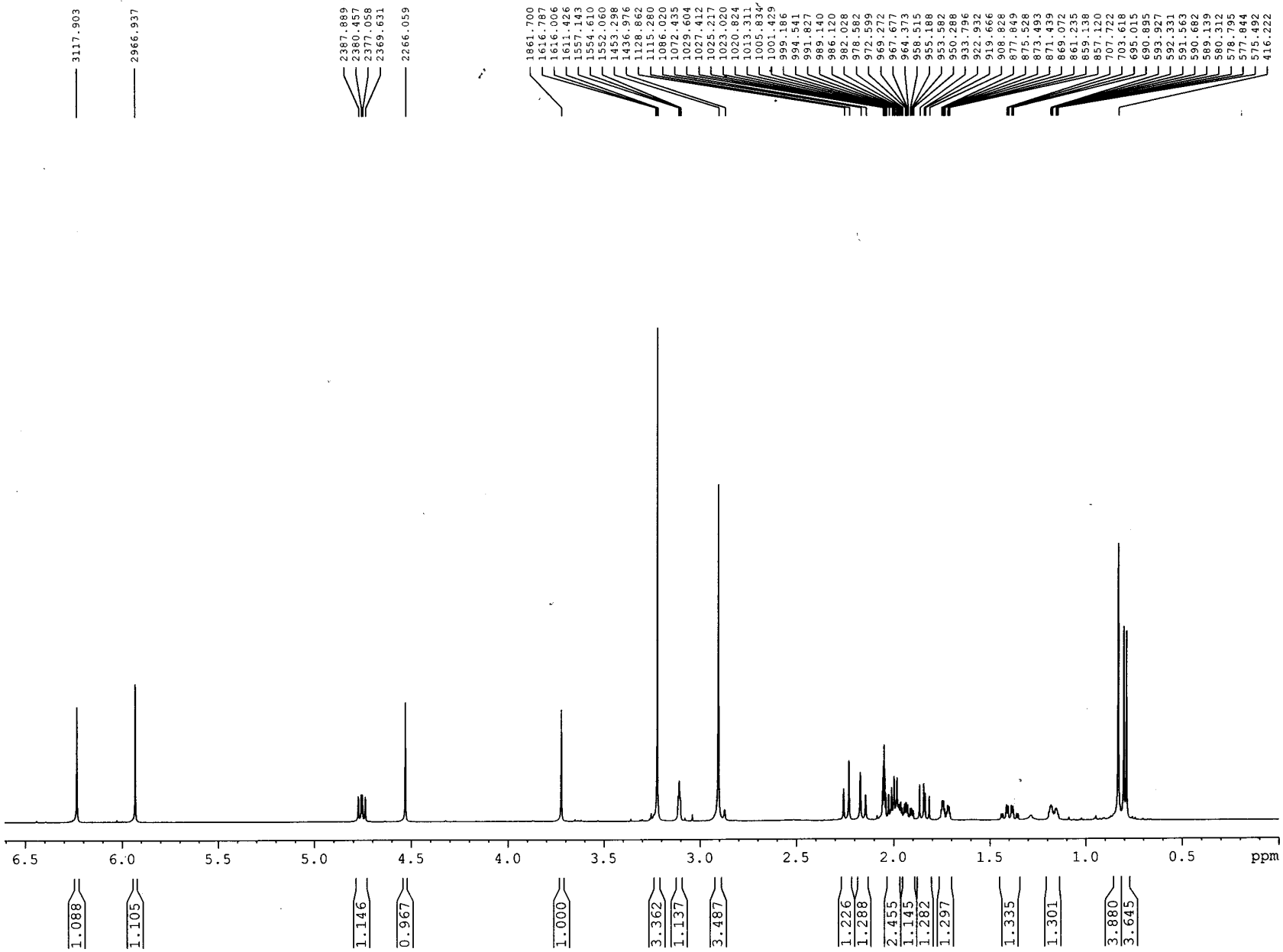
S3 ^{13}C NMR spectrum of **1** (acetone-d_6, 125 MHz)



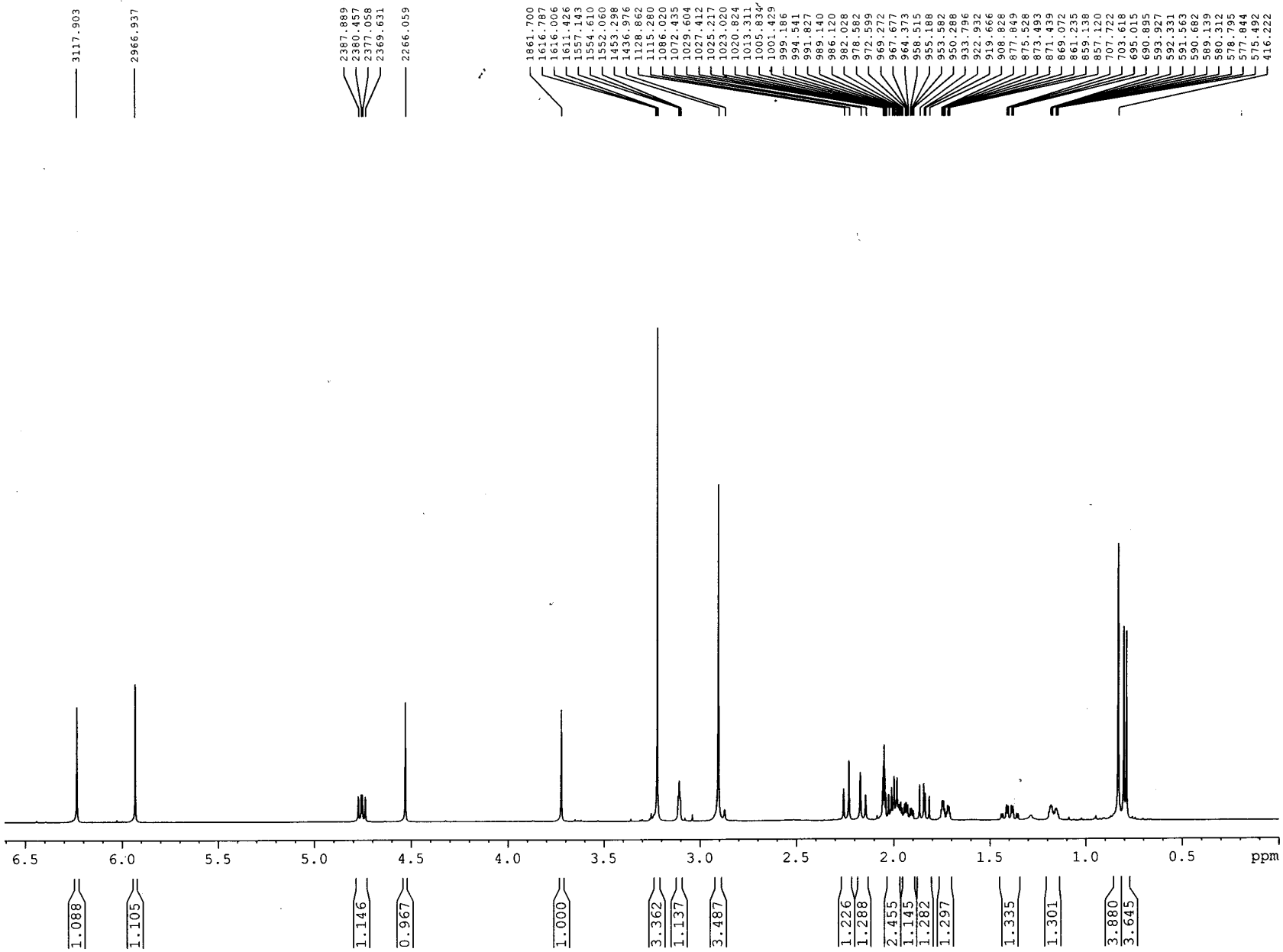
S4 ^{13}C NMR spectrum of **1** (acetone-d_6, 125 MHz), expanded



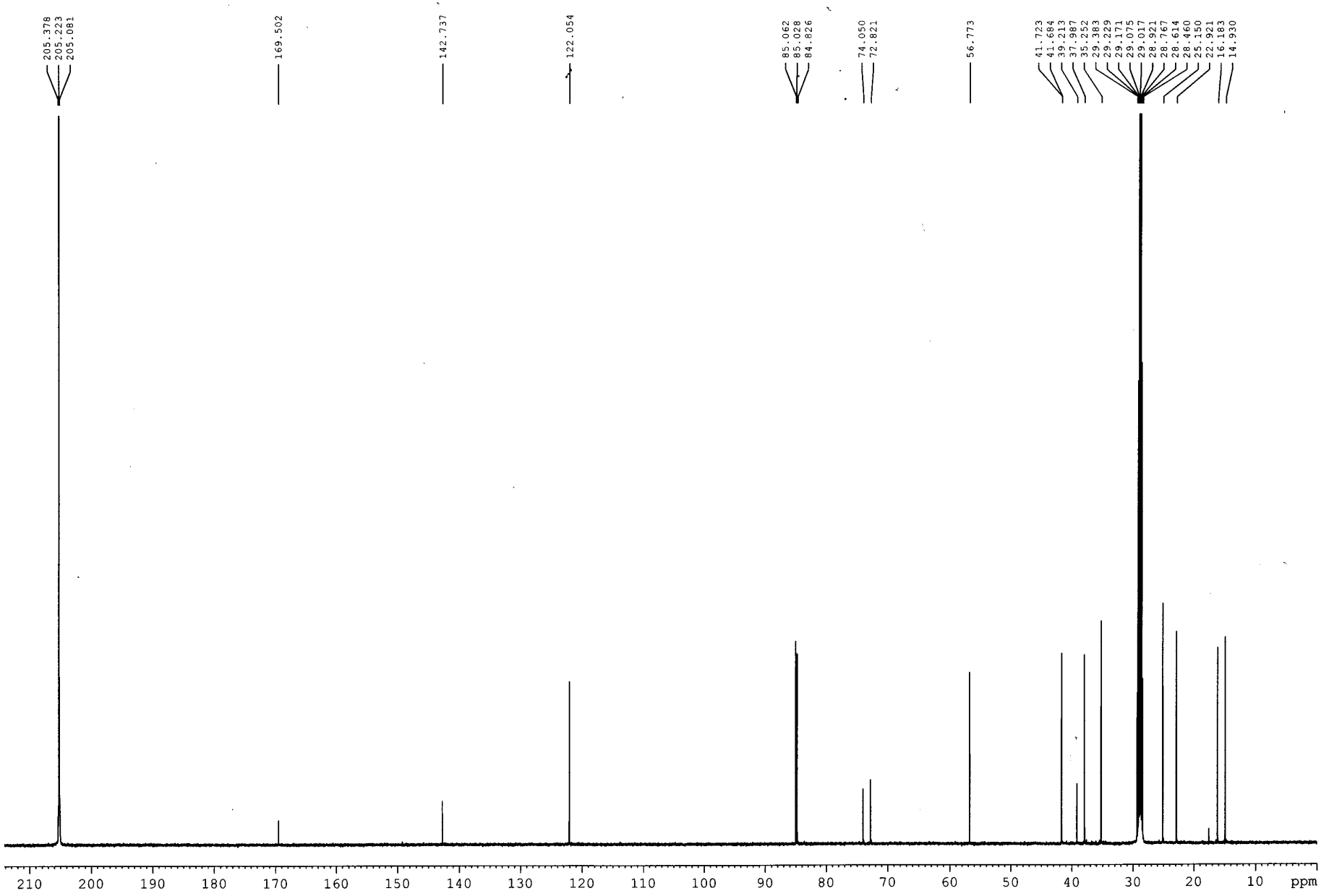
S5 ^{1}H NMR spectrum of **2** (acetone-d_6, 500 MHz)



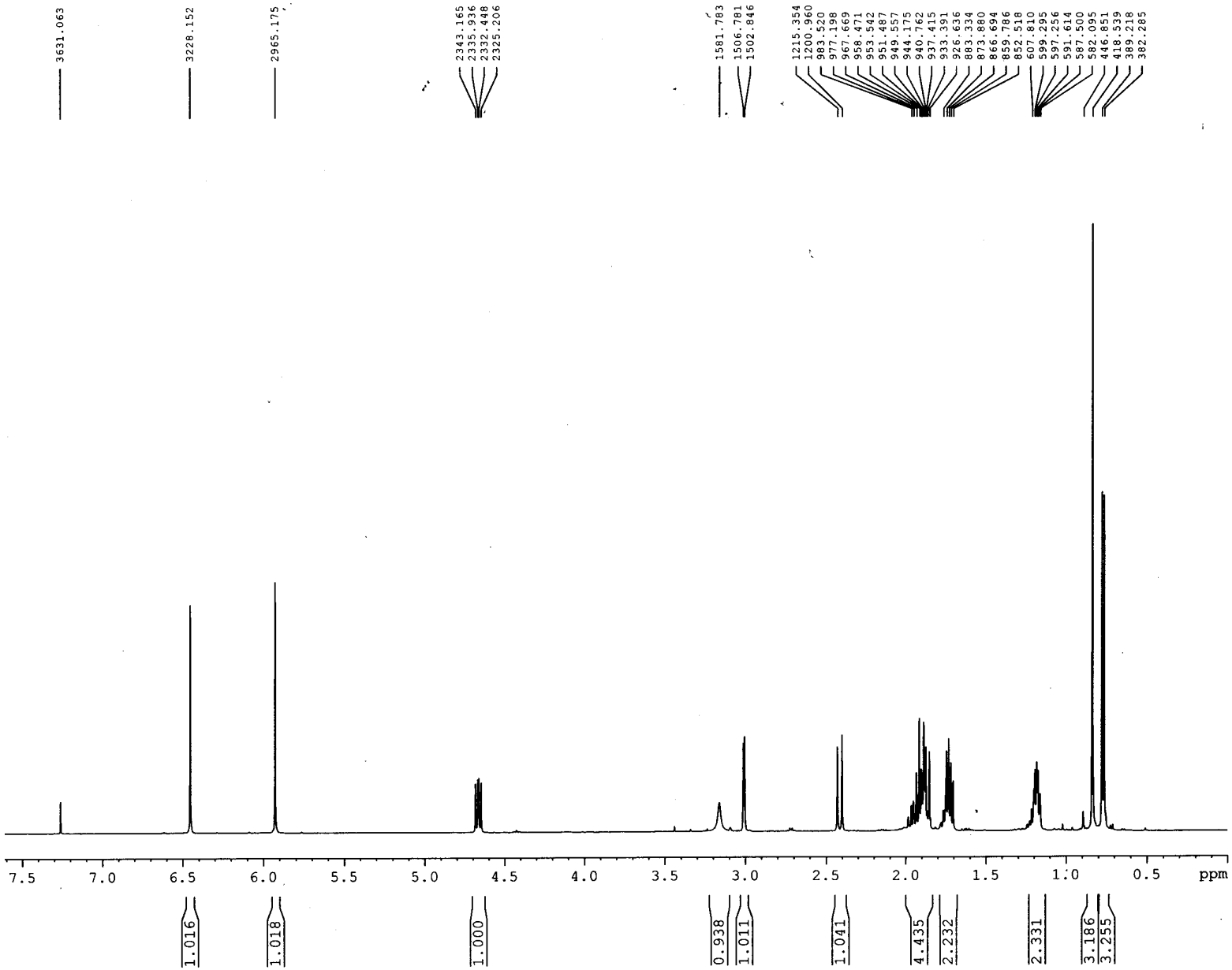
S6 ^{1}H NMR spectrum of **2** (acetone-d_6, 500 MHz), expanded



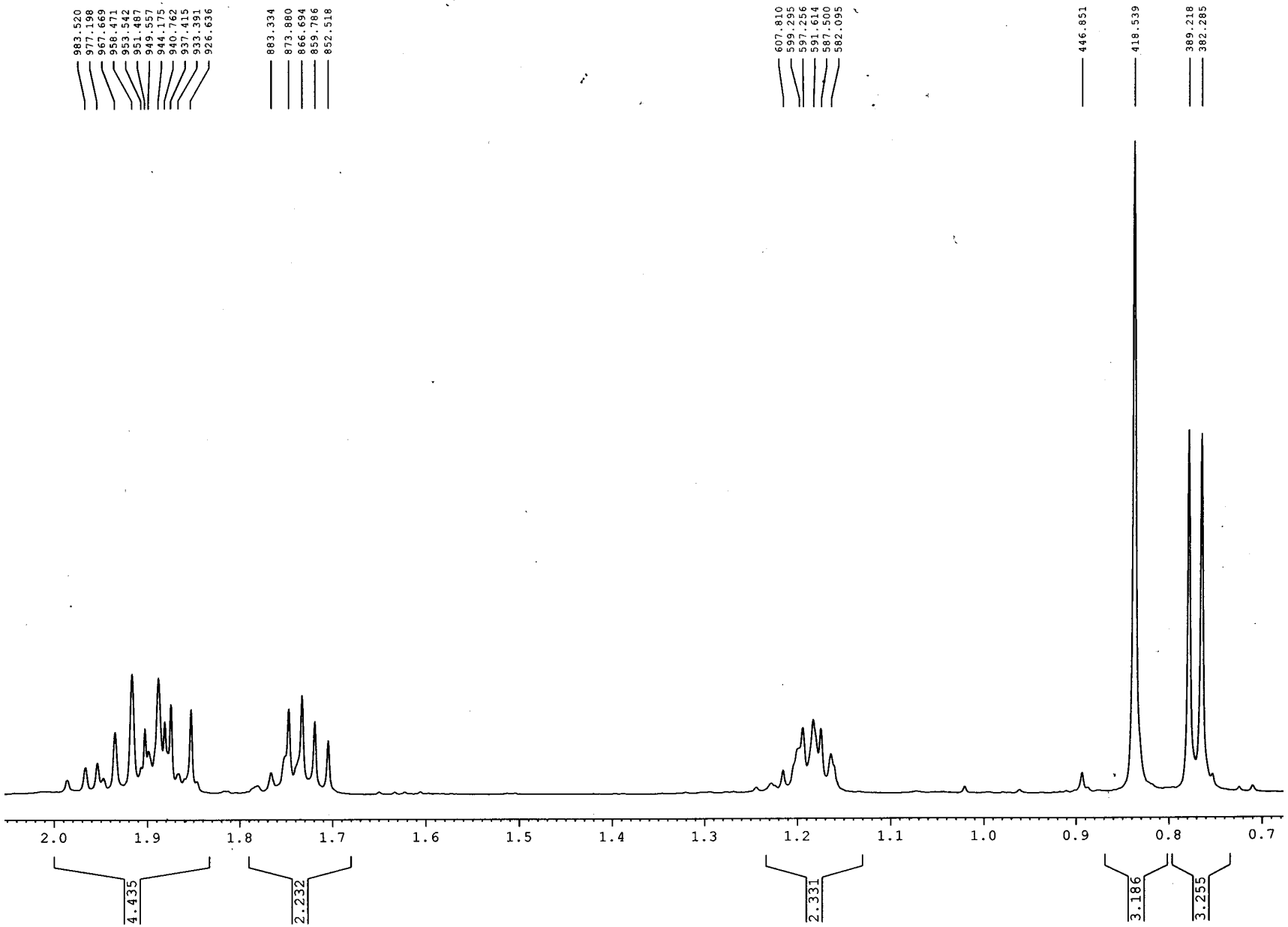
S7 ^{13}C NMR spectrum of **2** (acetone-d_6, 125 MHz)



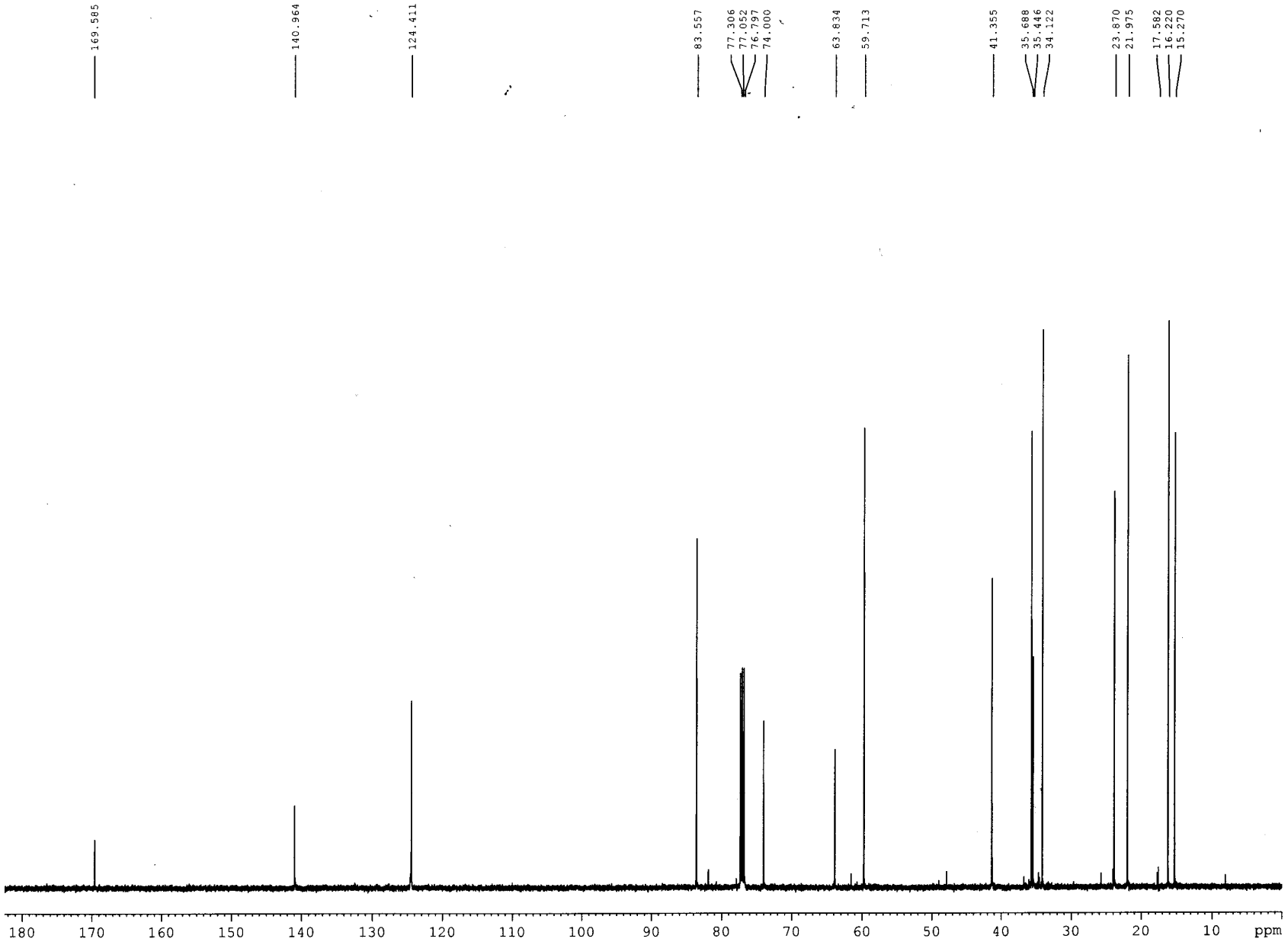
S8 ^{1}H NMR spectrum of **3** ($CDCl_3$, 500 MHz)



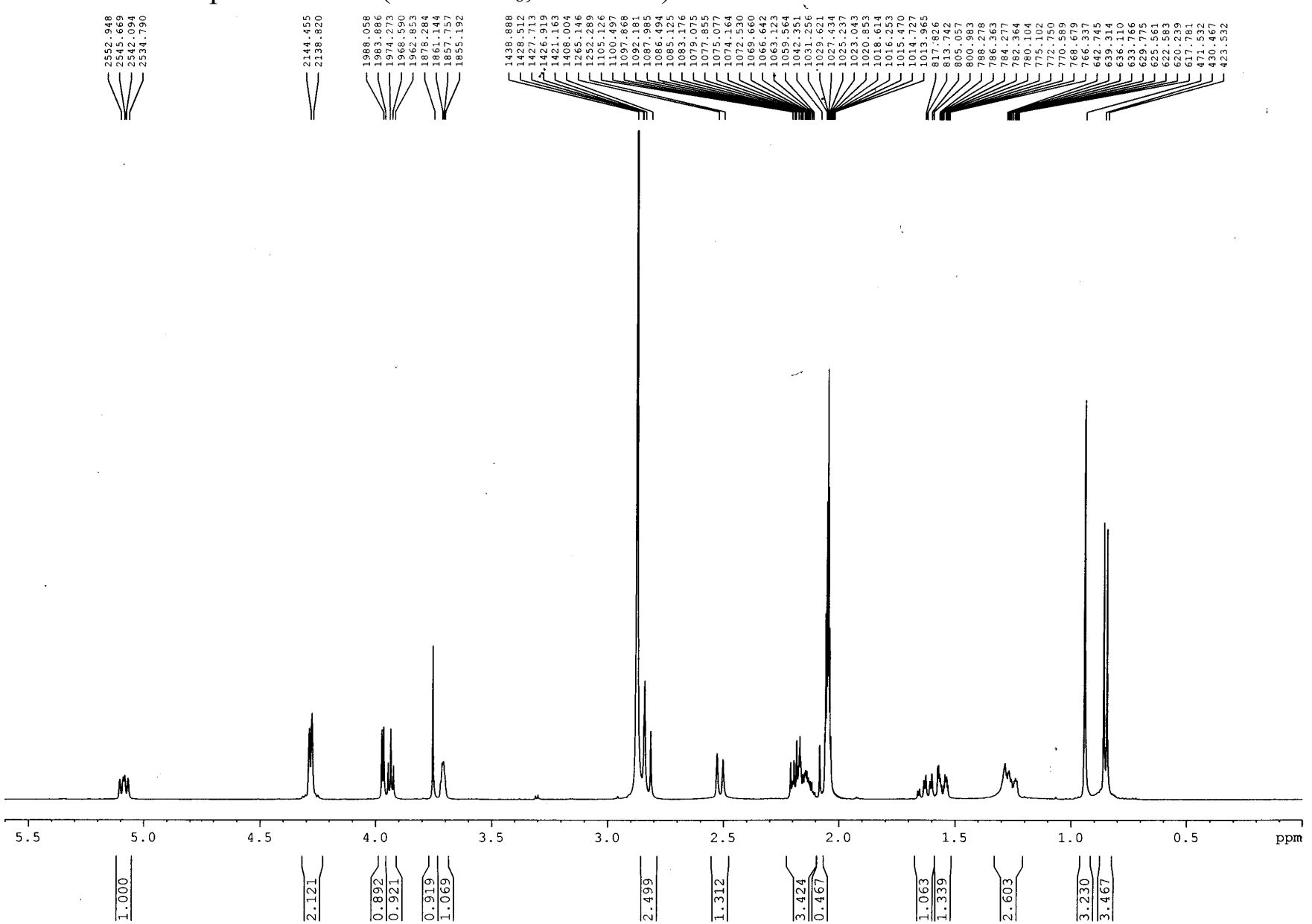
S9 ^{1}H NMR spectrum of **3** ($CDCl_3$, 500 MHz), expanded



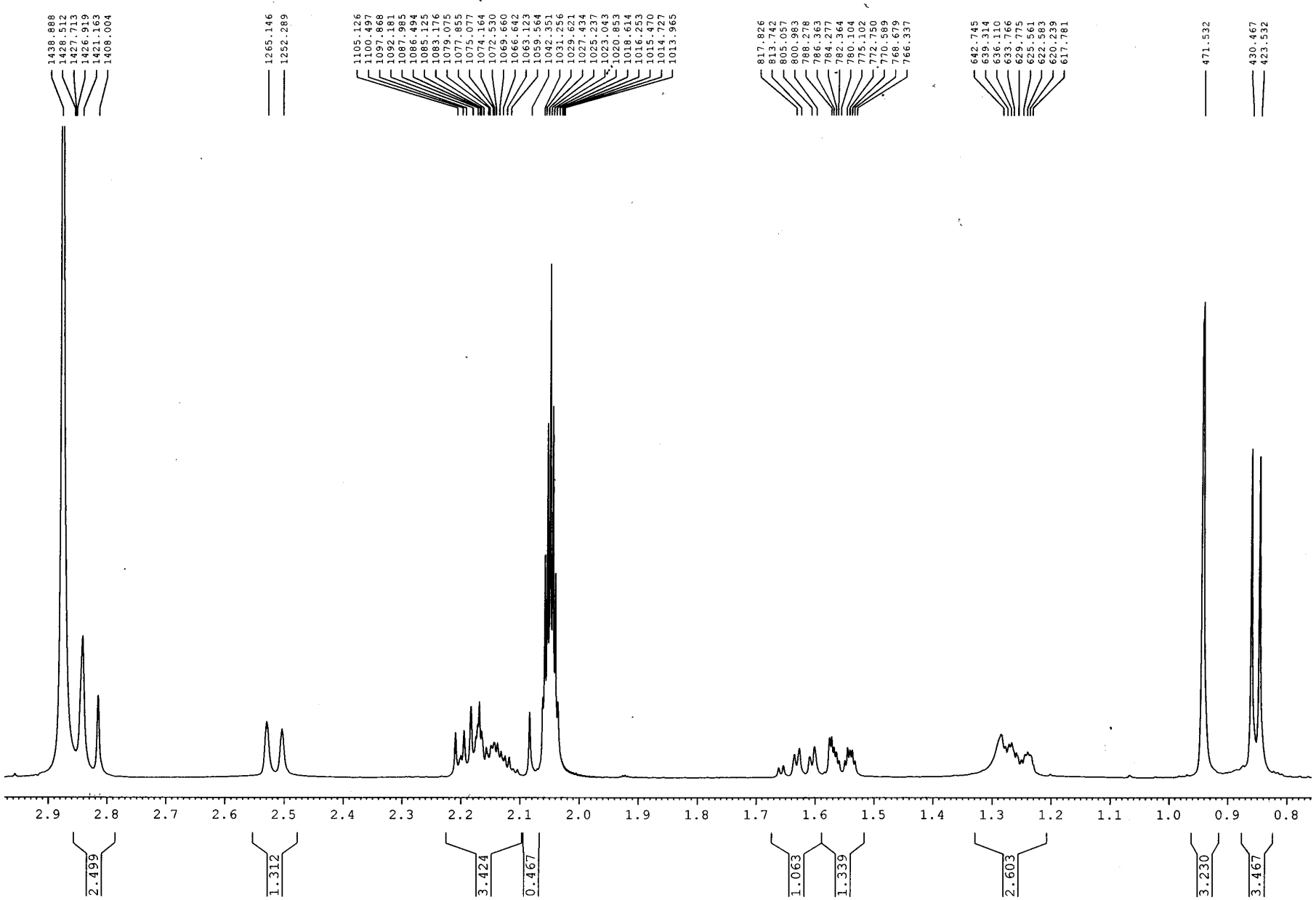
S10 ^{13}C NMR spectrum of **3** ($CDCl_3$, 125 MHz)



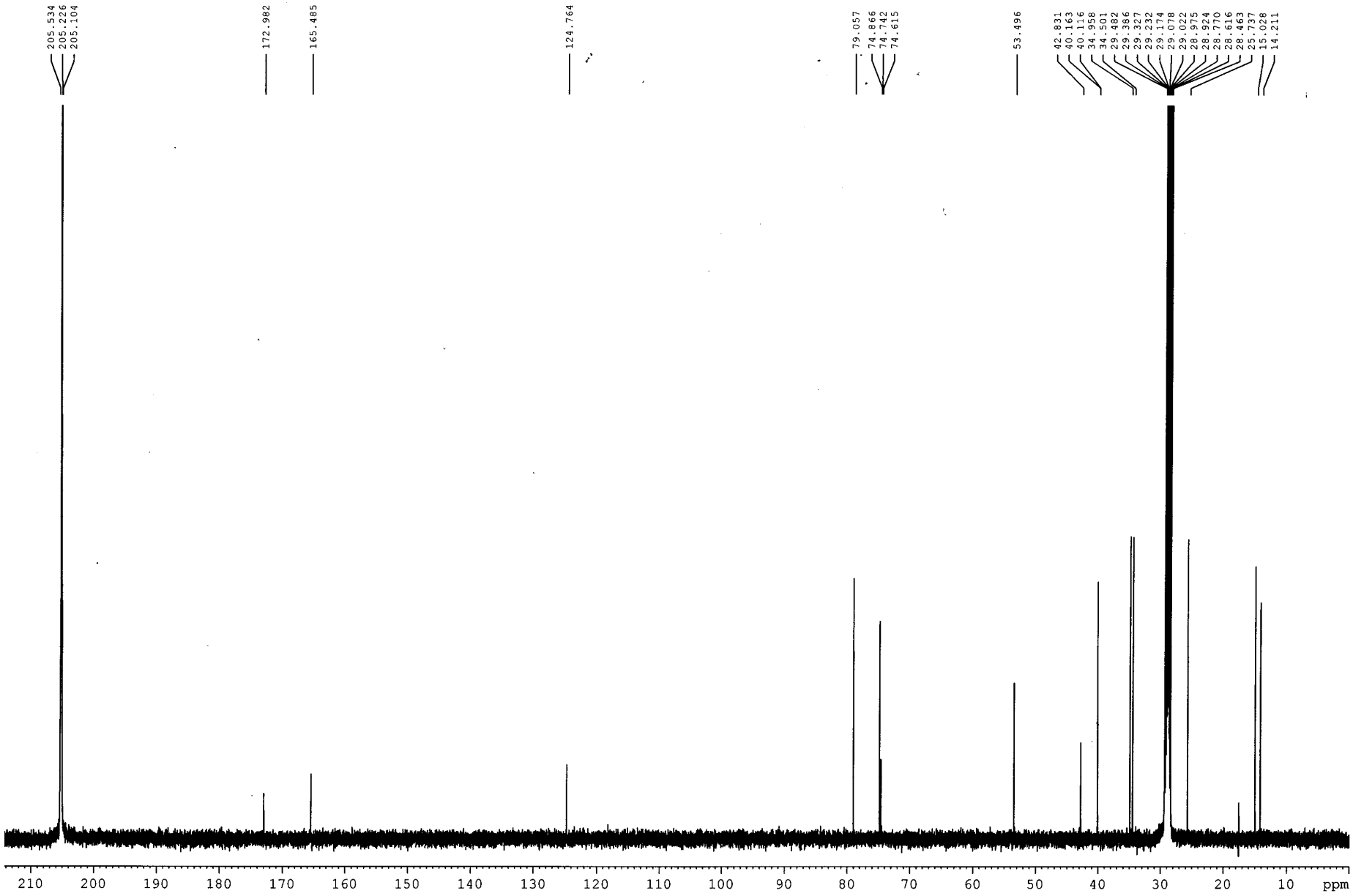
S11 ^{1}H NMR spectrum of **4** (acetone-d_6, 500 MHz)



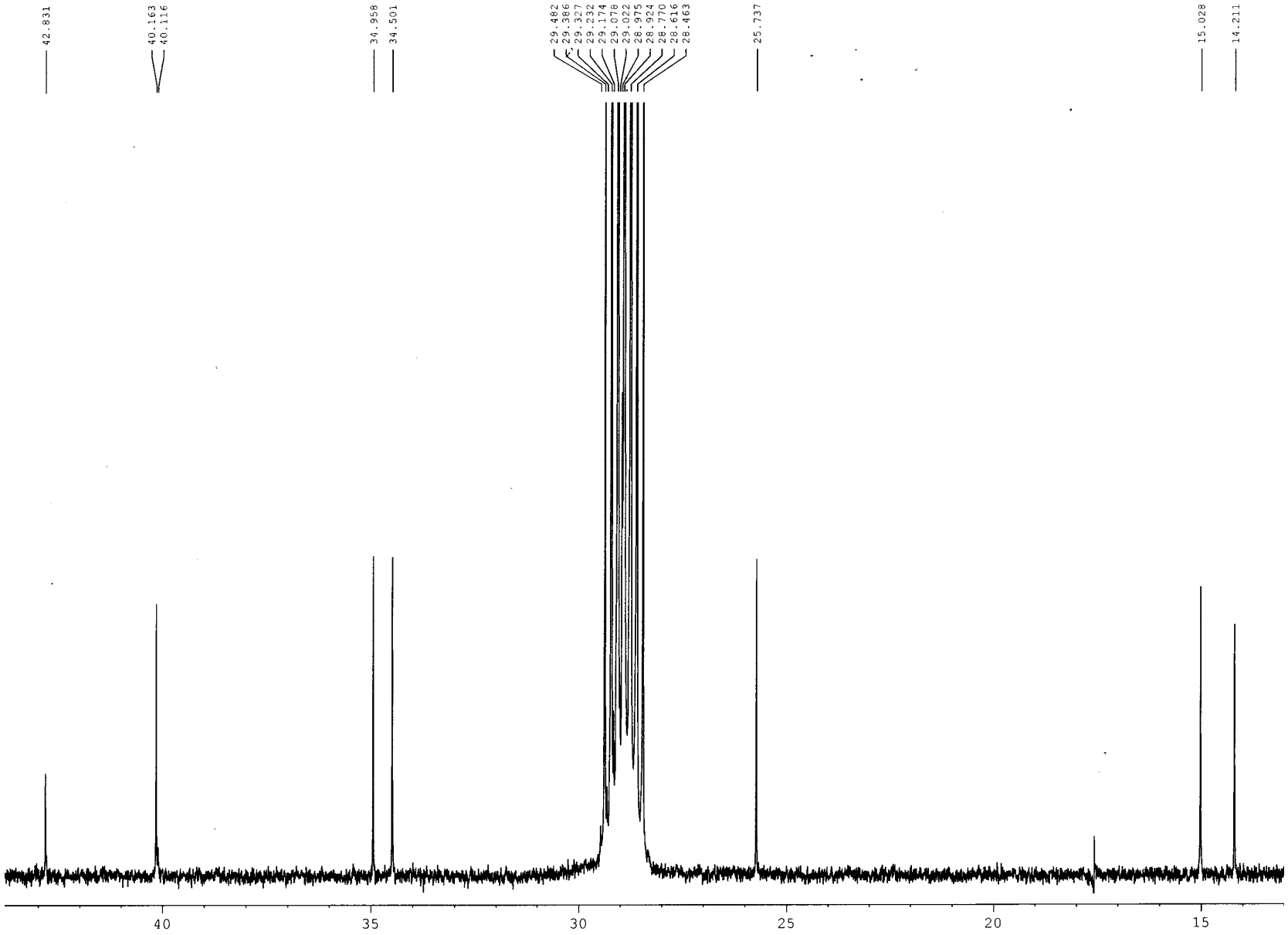
S12 ^{1}H NMR spectrum of **4** (acetone-d_6, 500 MHz), expanded



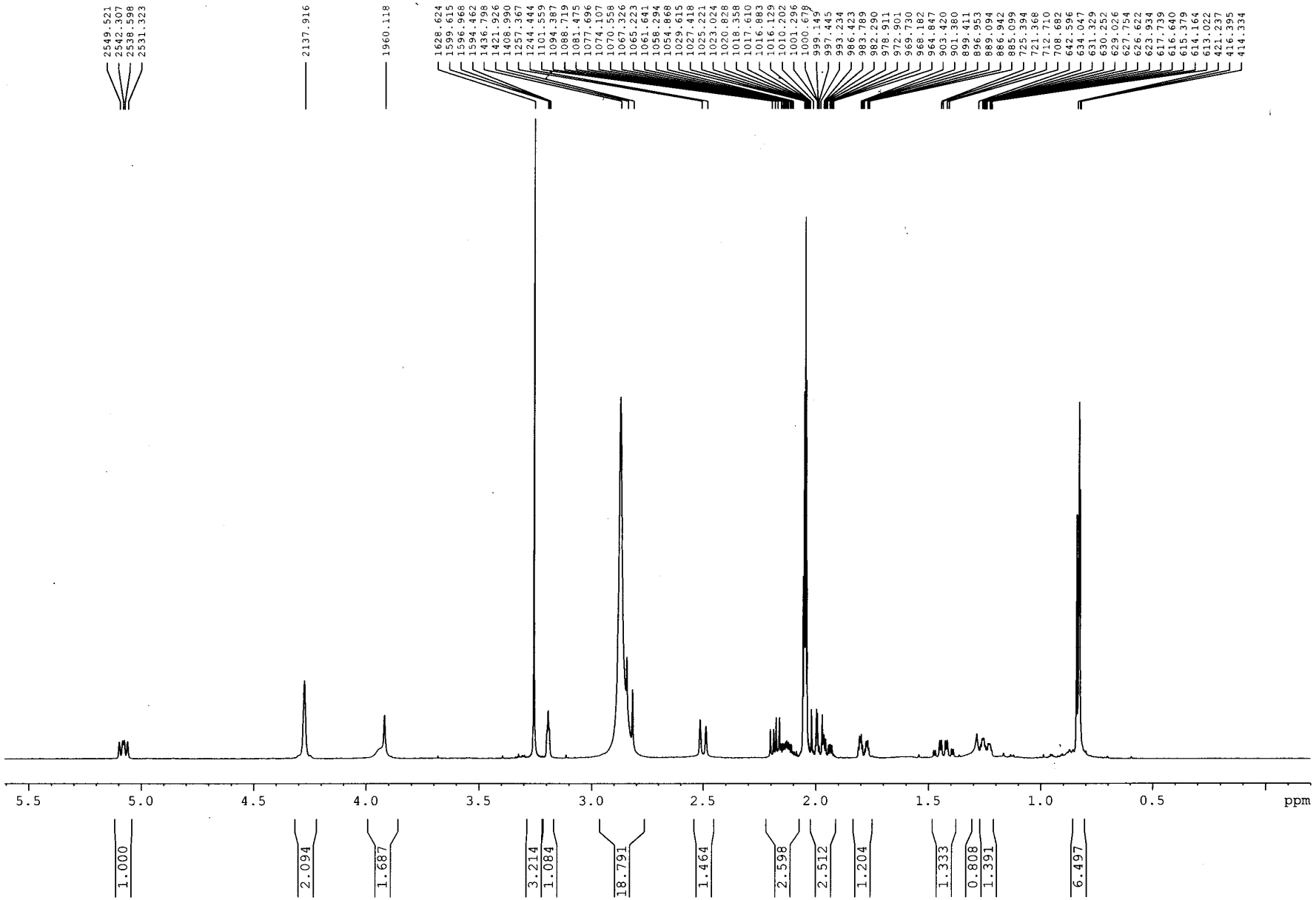
S13 ^{13}C NMR spectrum of **4** (acetone-d_6, 125 MHz)



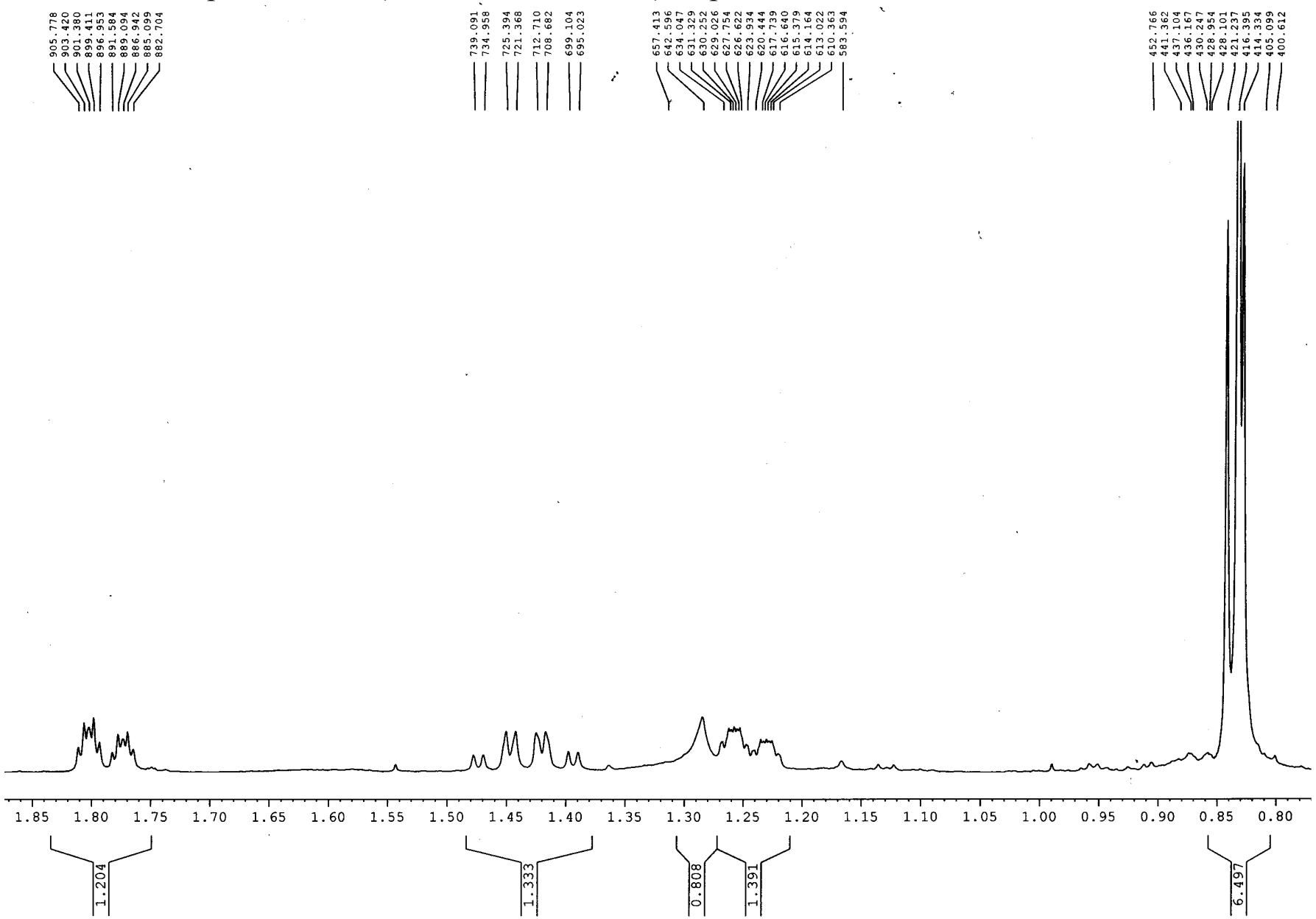
S14 ^{13}C NMR spectrum of **4** (acetone-d_6, 125 MHz), expanded



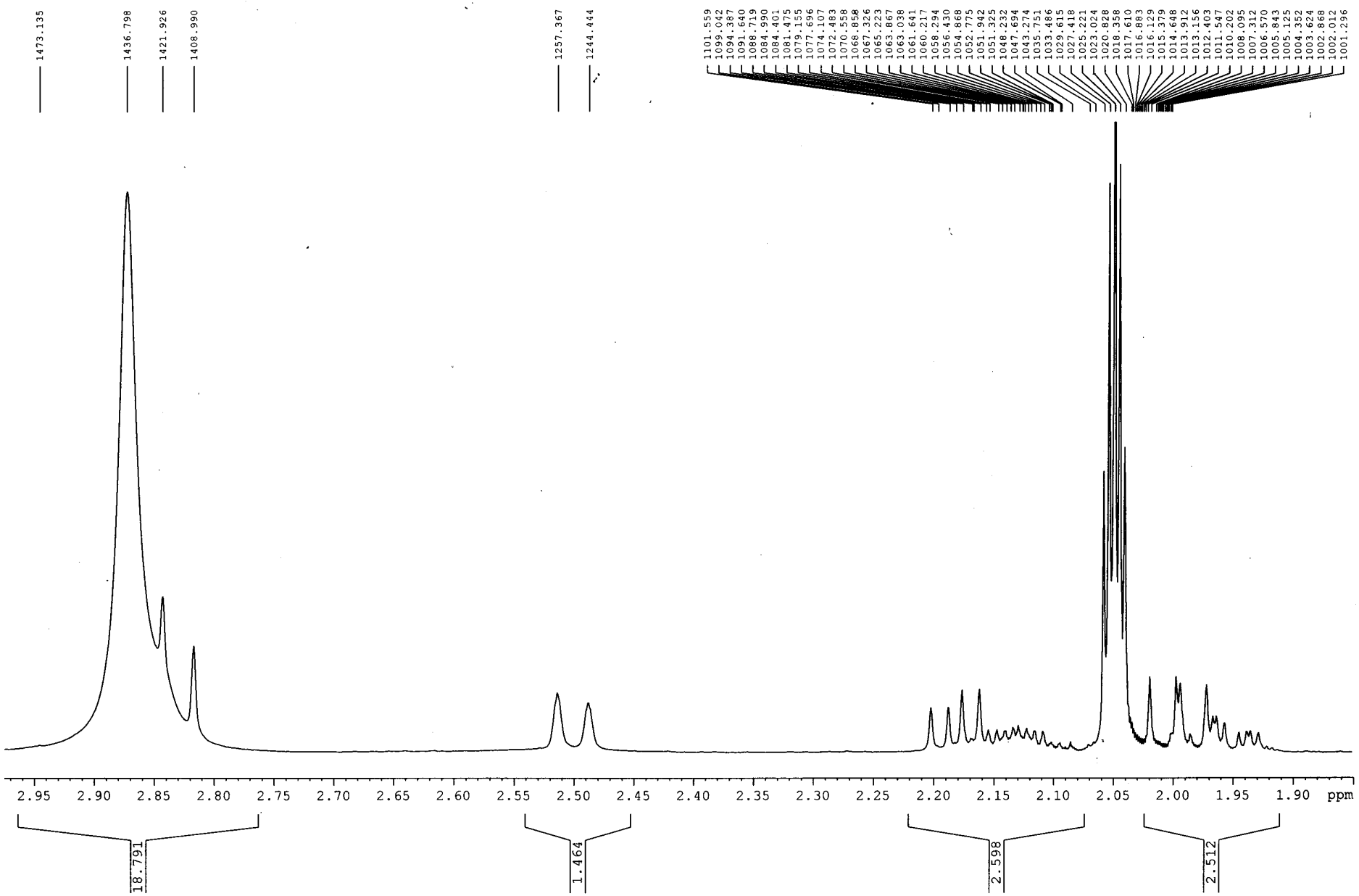
S15 ^{1}H NMR spectrum of **5** (acetone-d_6, 500 MHz)



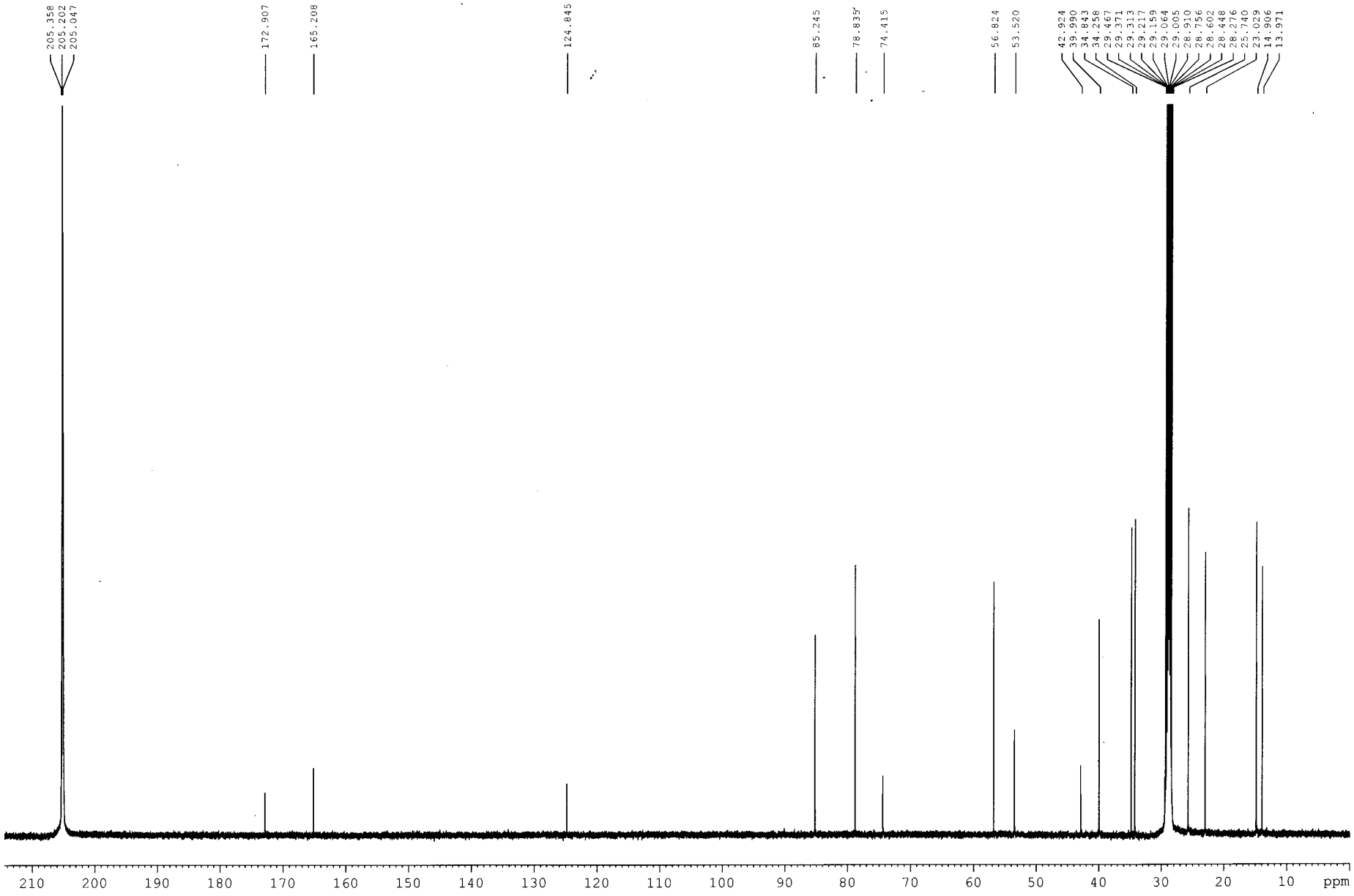
S16 ^{1}H NMR spectrum of **5** (acetone-d_6, 500 MHz), expanded



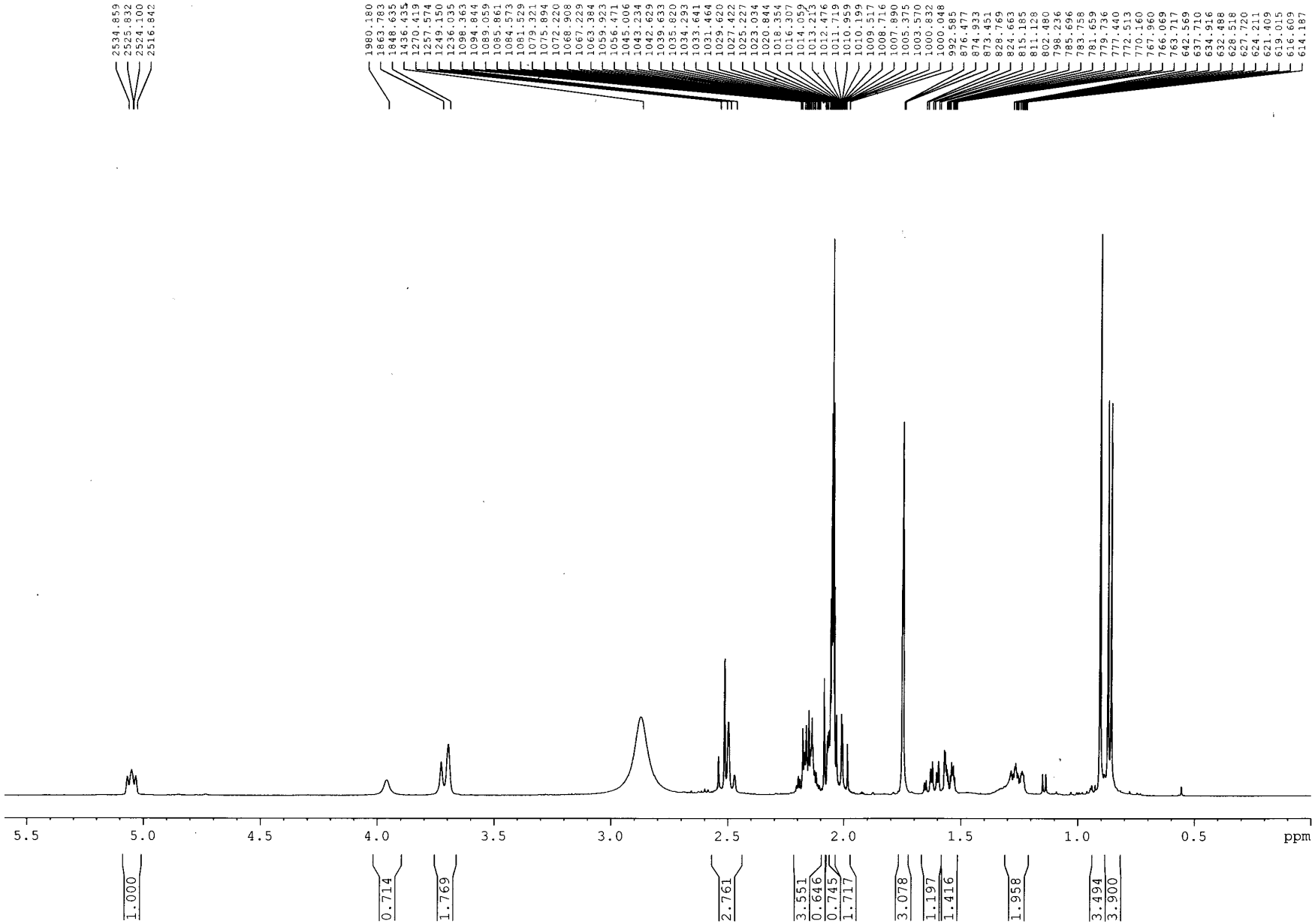
S17 ^{1}H NMR spectrum of **5** (acetone-d_6, 500 MHz), expanded



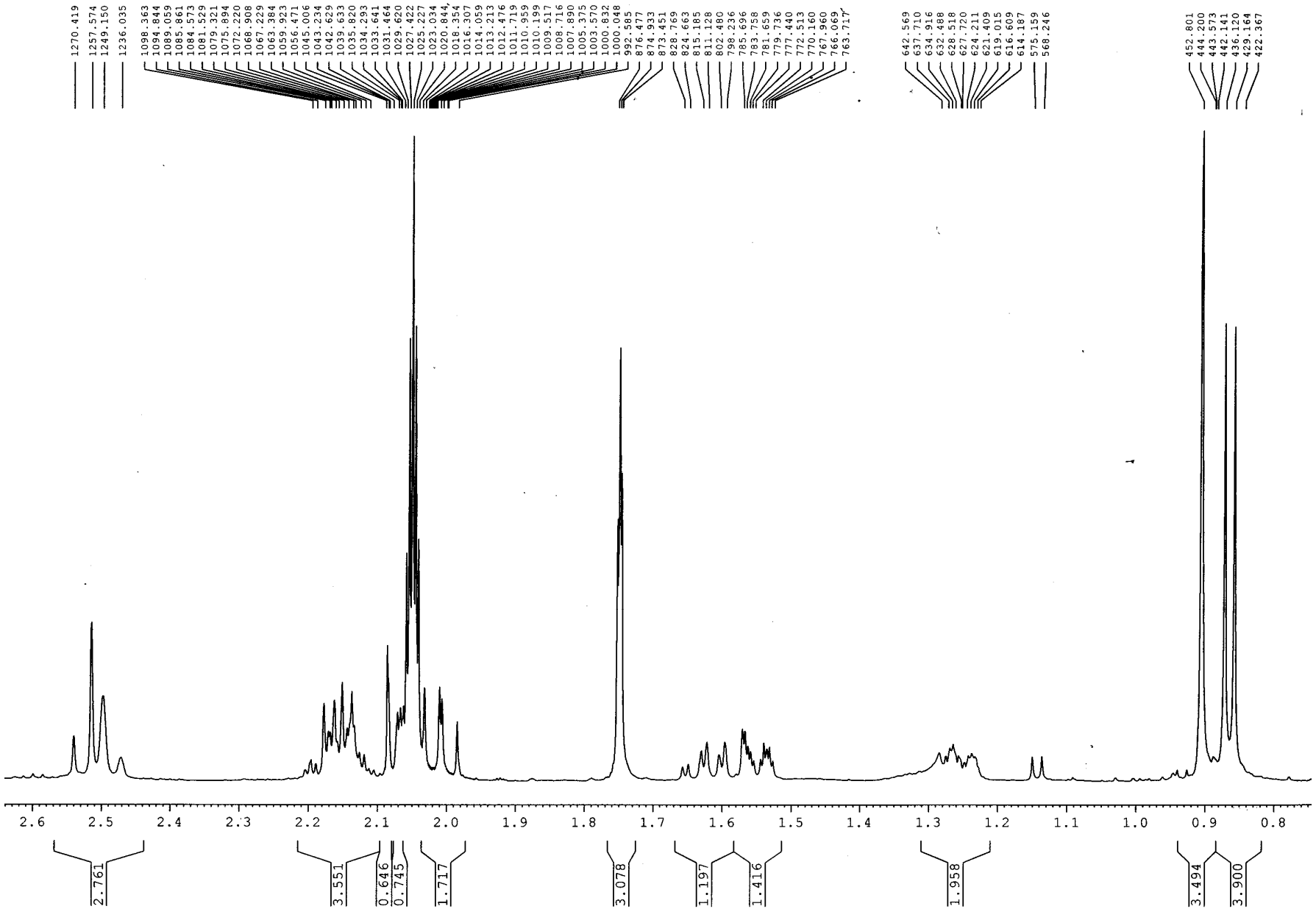
S18 ^{13}C NMR spectrum of **5** (acetone-d_6. 125 MHz)



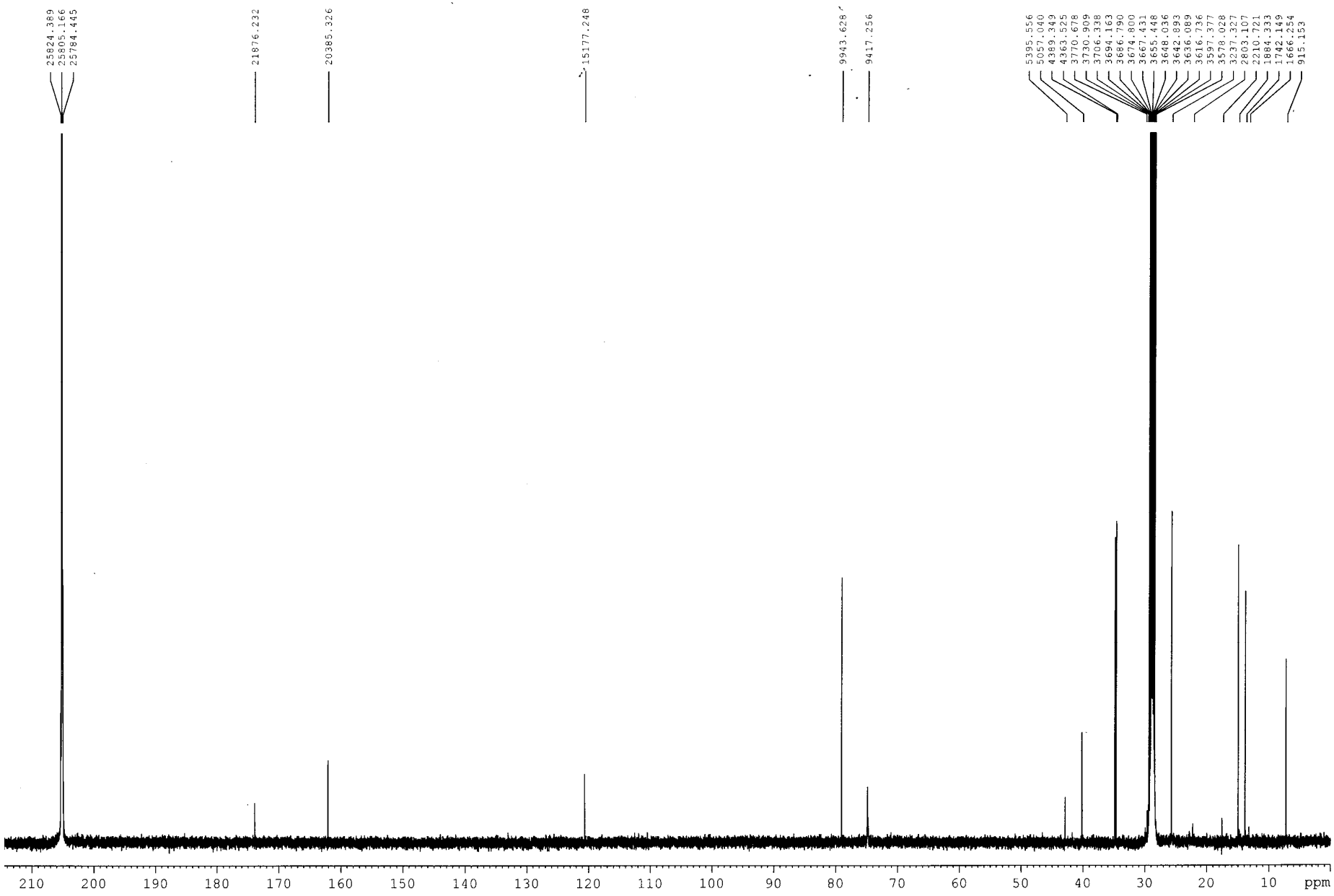
S19 ^{1}H NMR spectrum of **6** (acetone-d_6, 500 MHz)



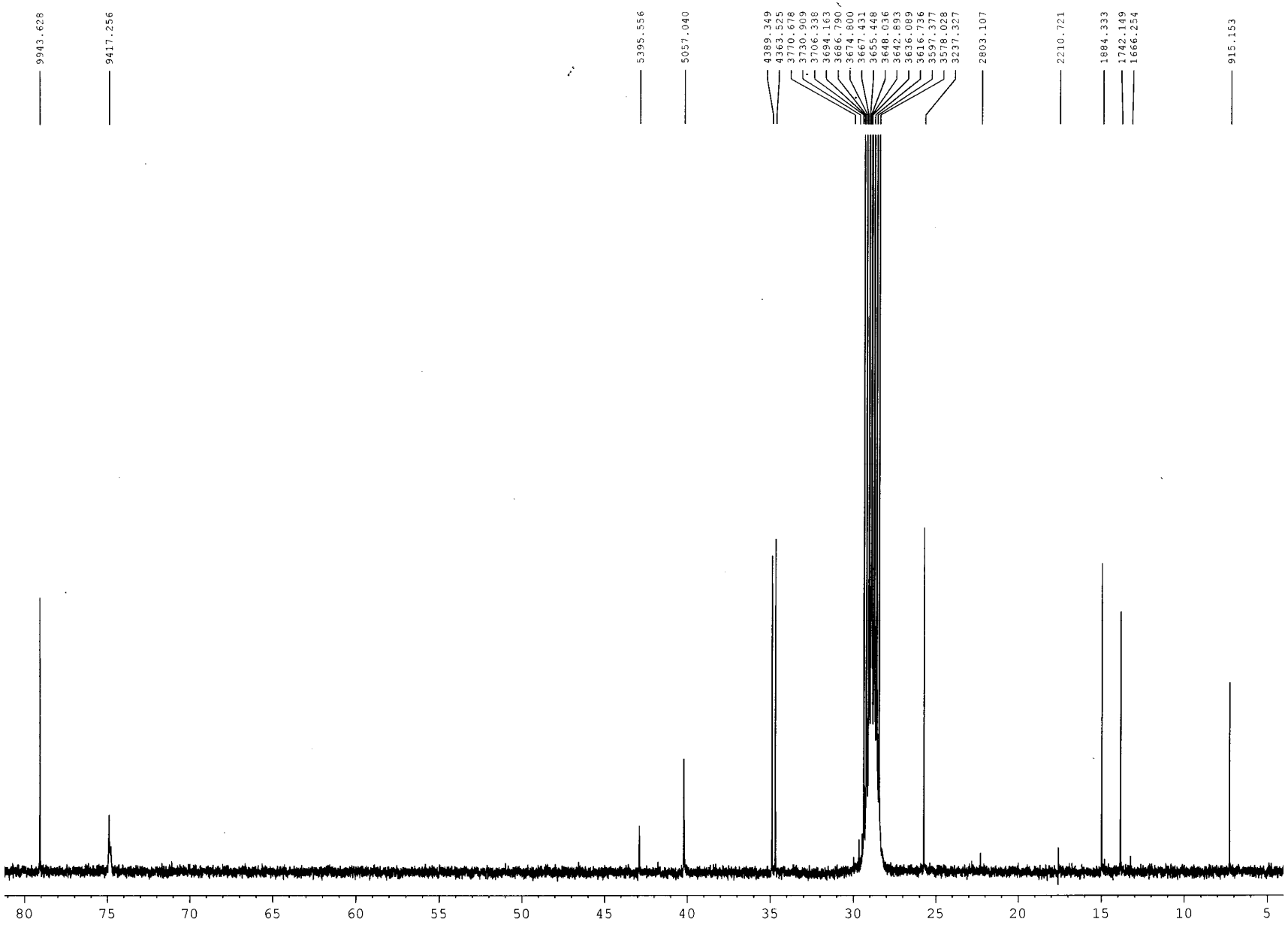
S20 ^{1}H NMR spectrum of **6** (acetone-d_6, 500 MHz), expanded



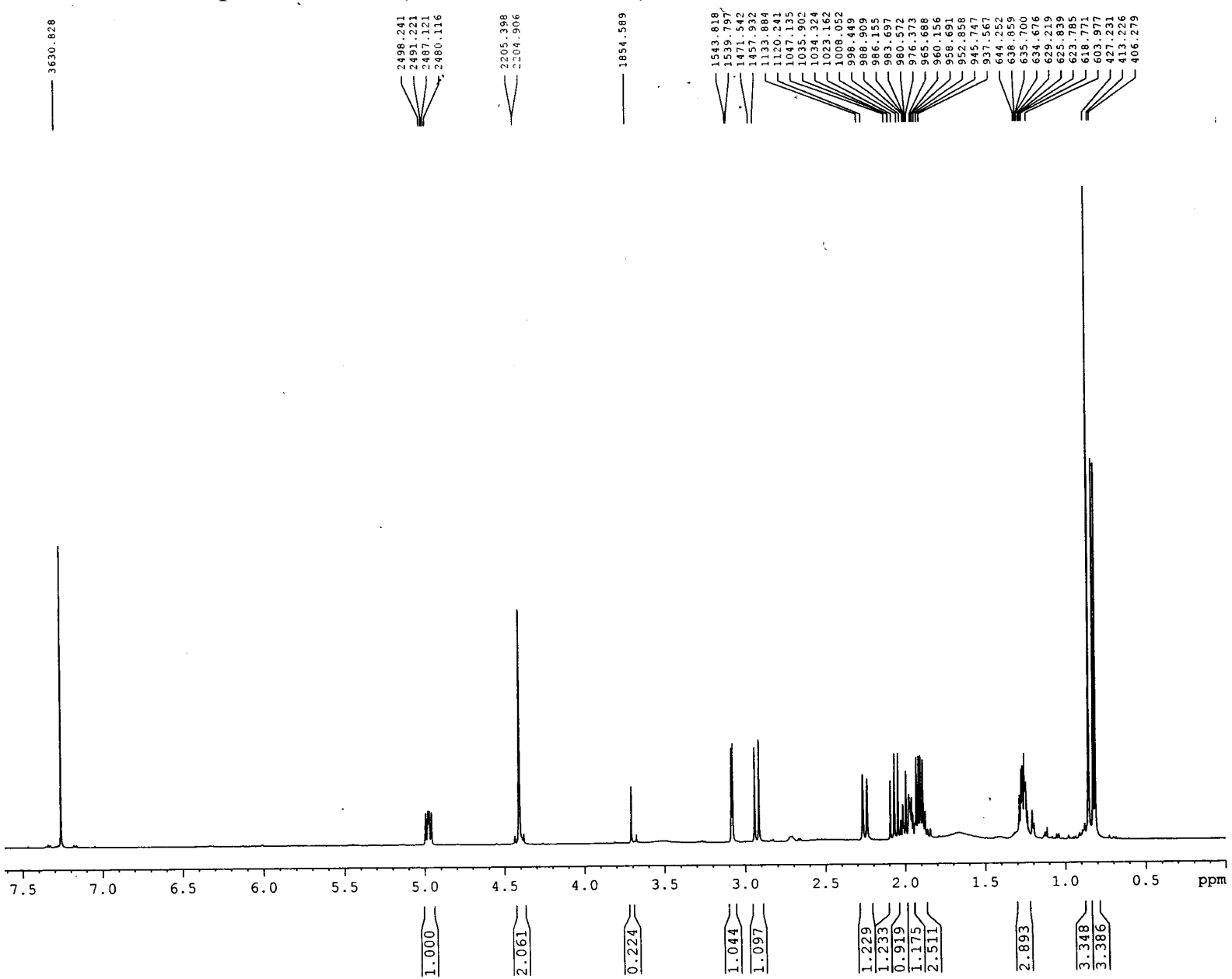
S21 ^{13}C NMR spectrum of **6** (acetone-d_6, 125 MHz)



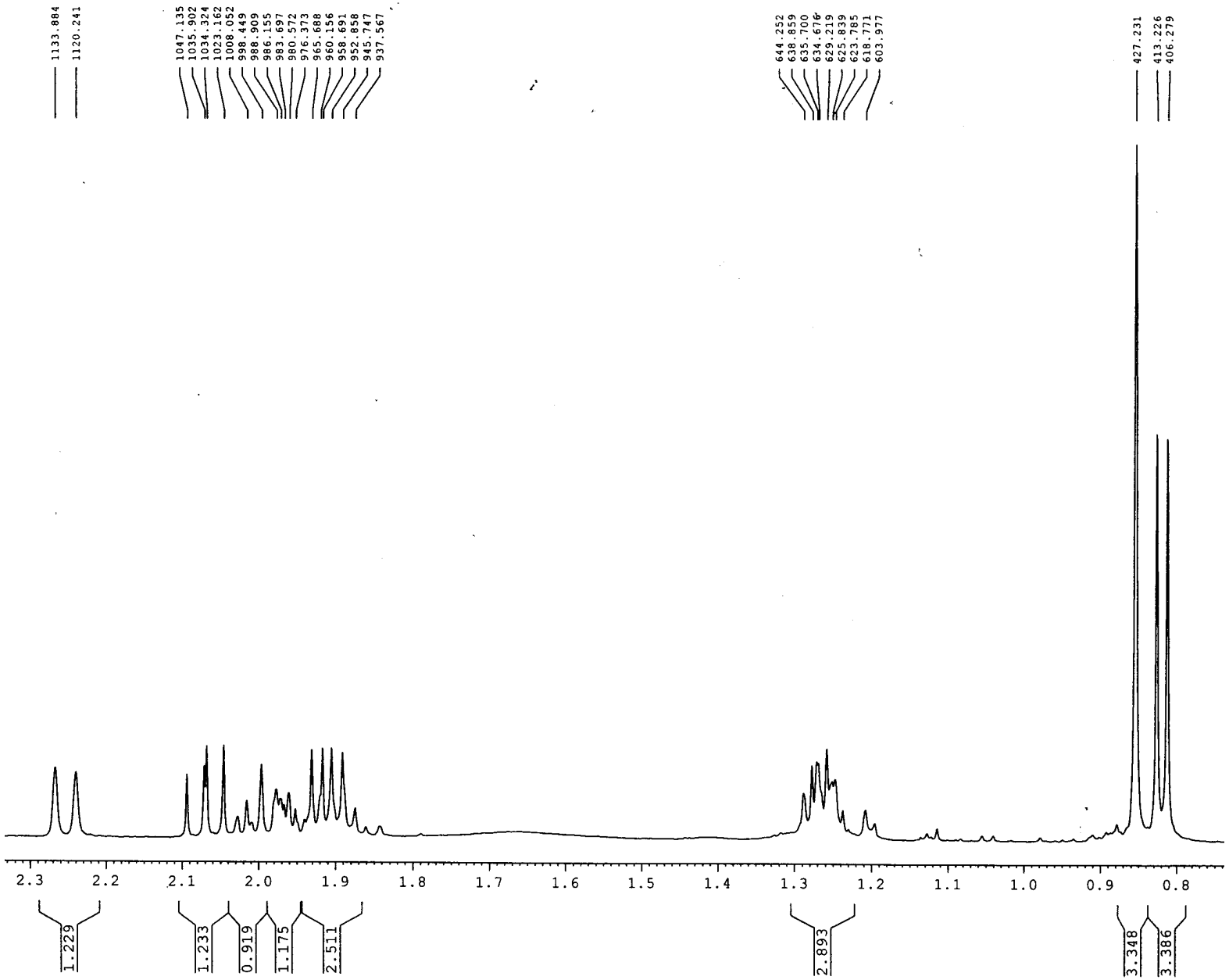
S22 ^{13}C NMR spectrum of **6** (acetone-d_6, 125 MHz), expanded



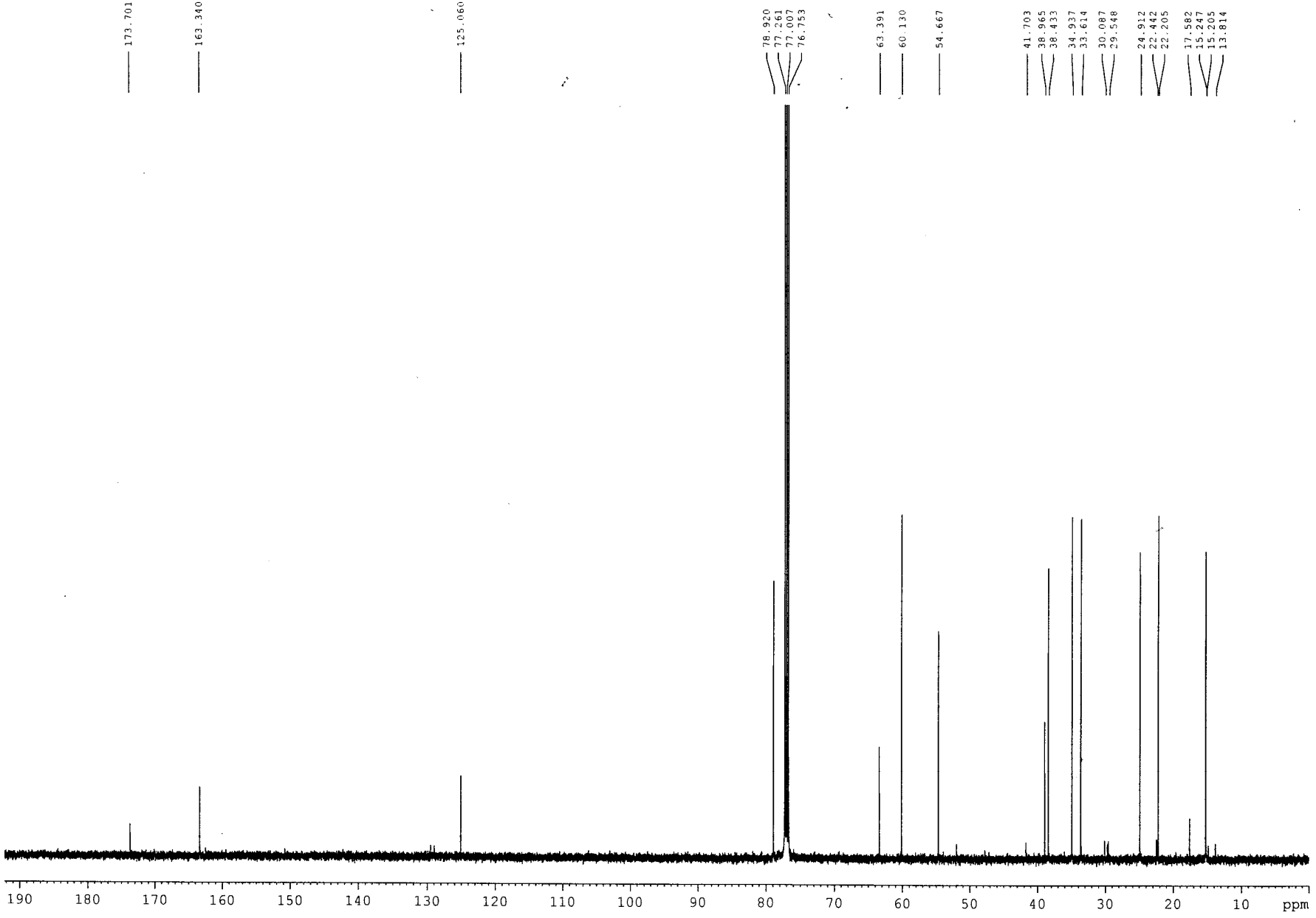
S23 ^{1}H NMR spectrum of **7** ($CDCl_3$, 500 MHz)



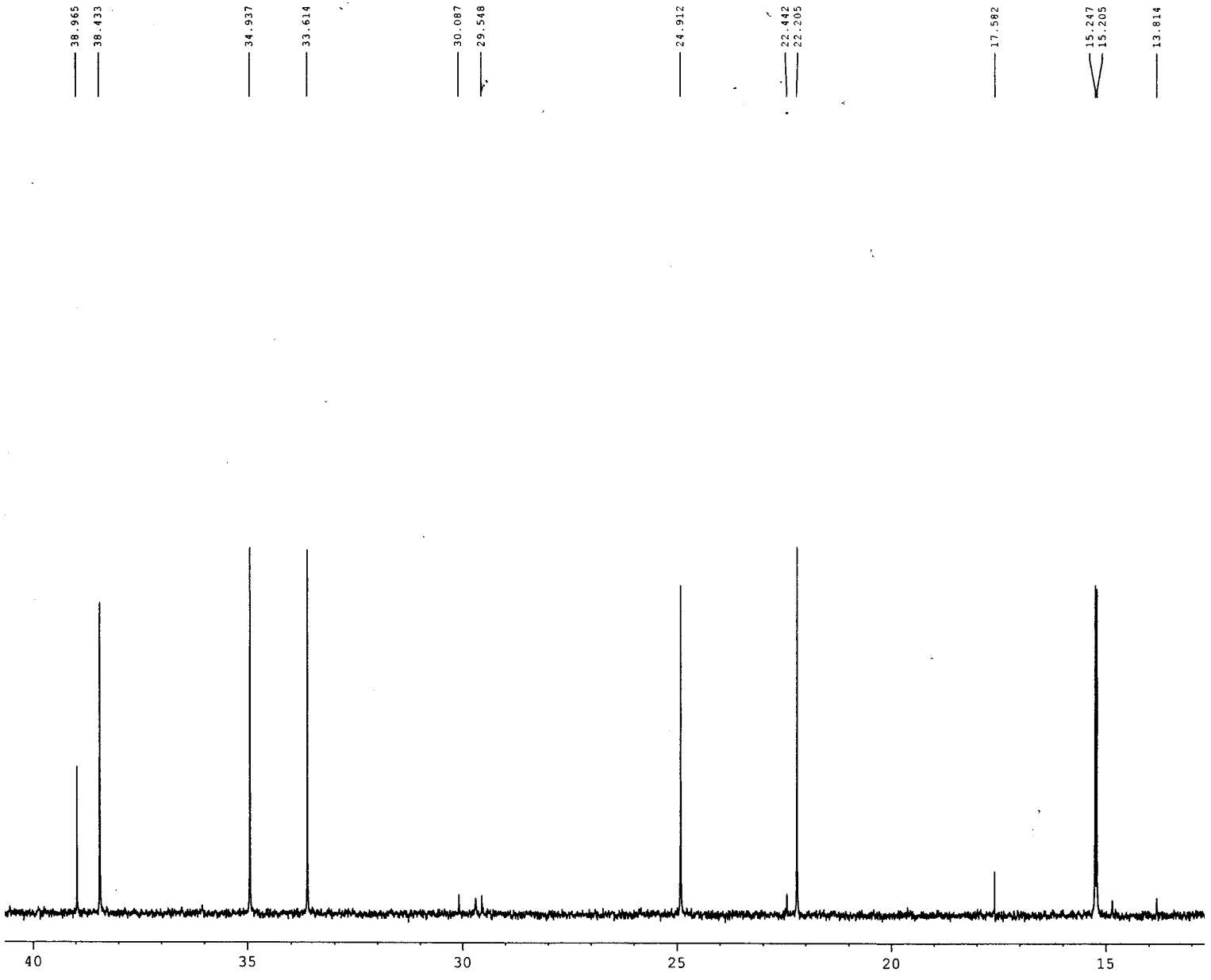
S24 ^{1}H NMR spectrum of **7** ($CDCl_3$, 500 MHz), expanded



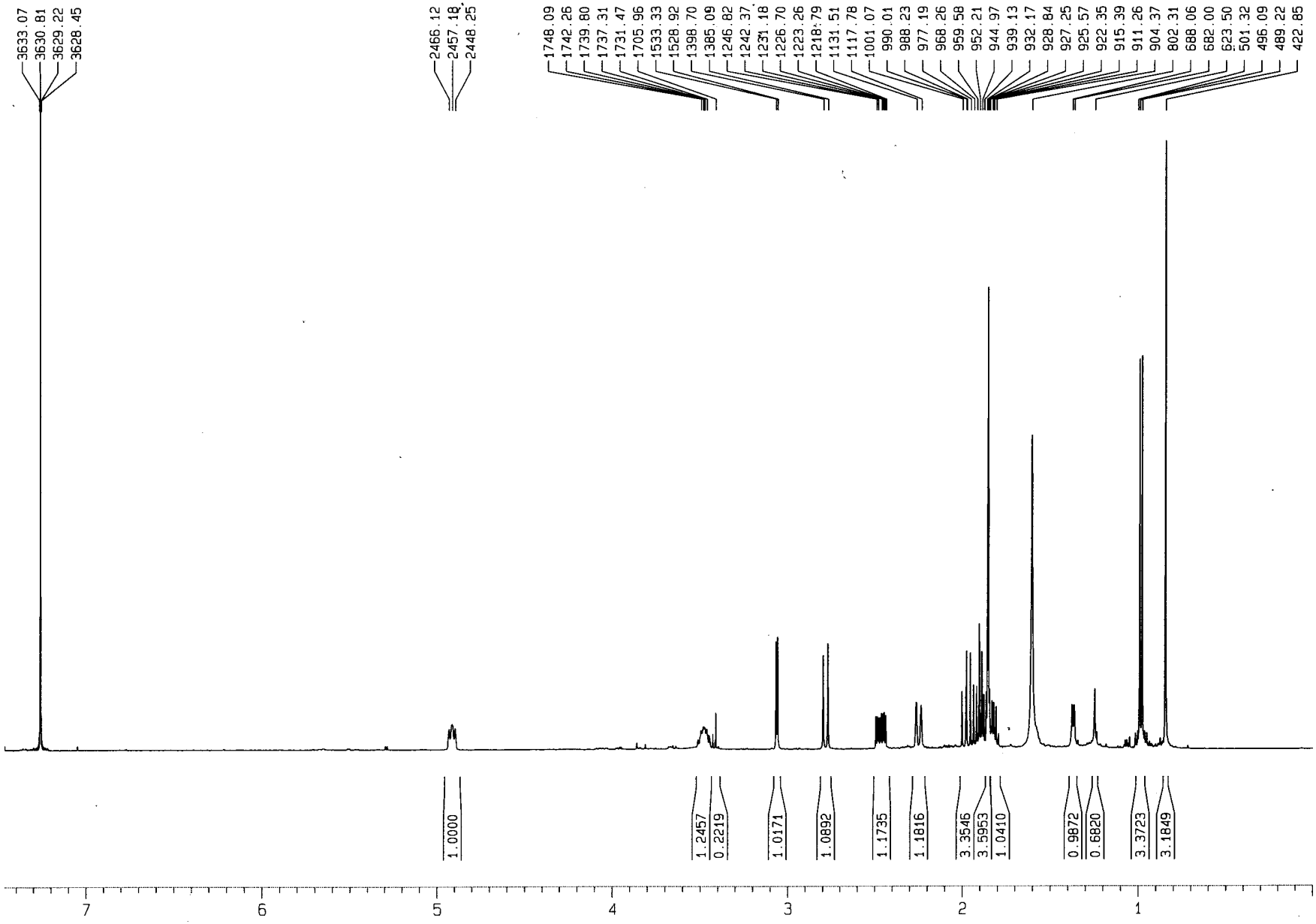
S25 ^{13}C NMR spectrum of **7** ($CDCl_3$, 125 MHz)



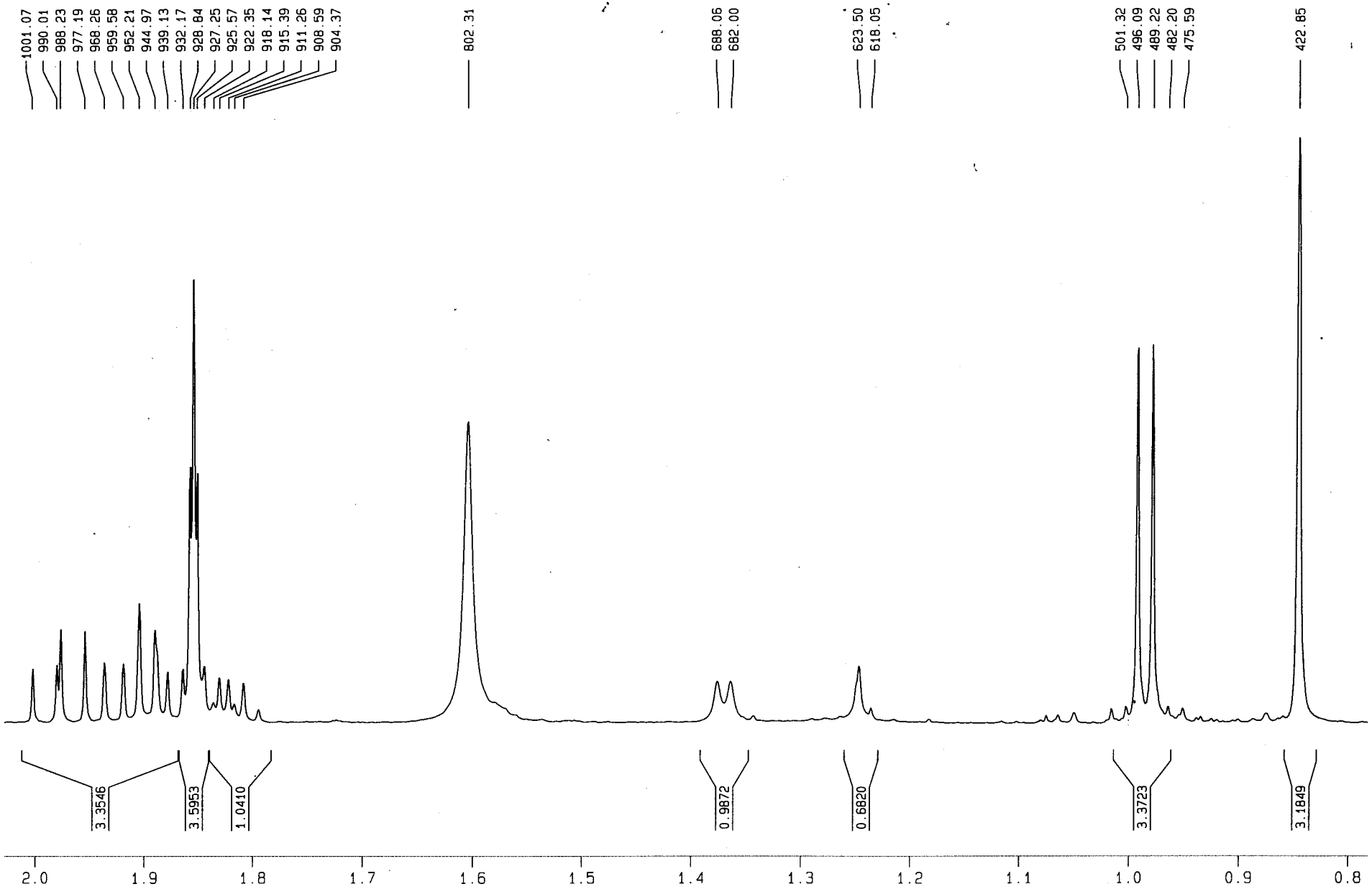
S26 ^{13}C NMR spectrum of **7** ($CDCl_3$, 125 MHz), expanded



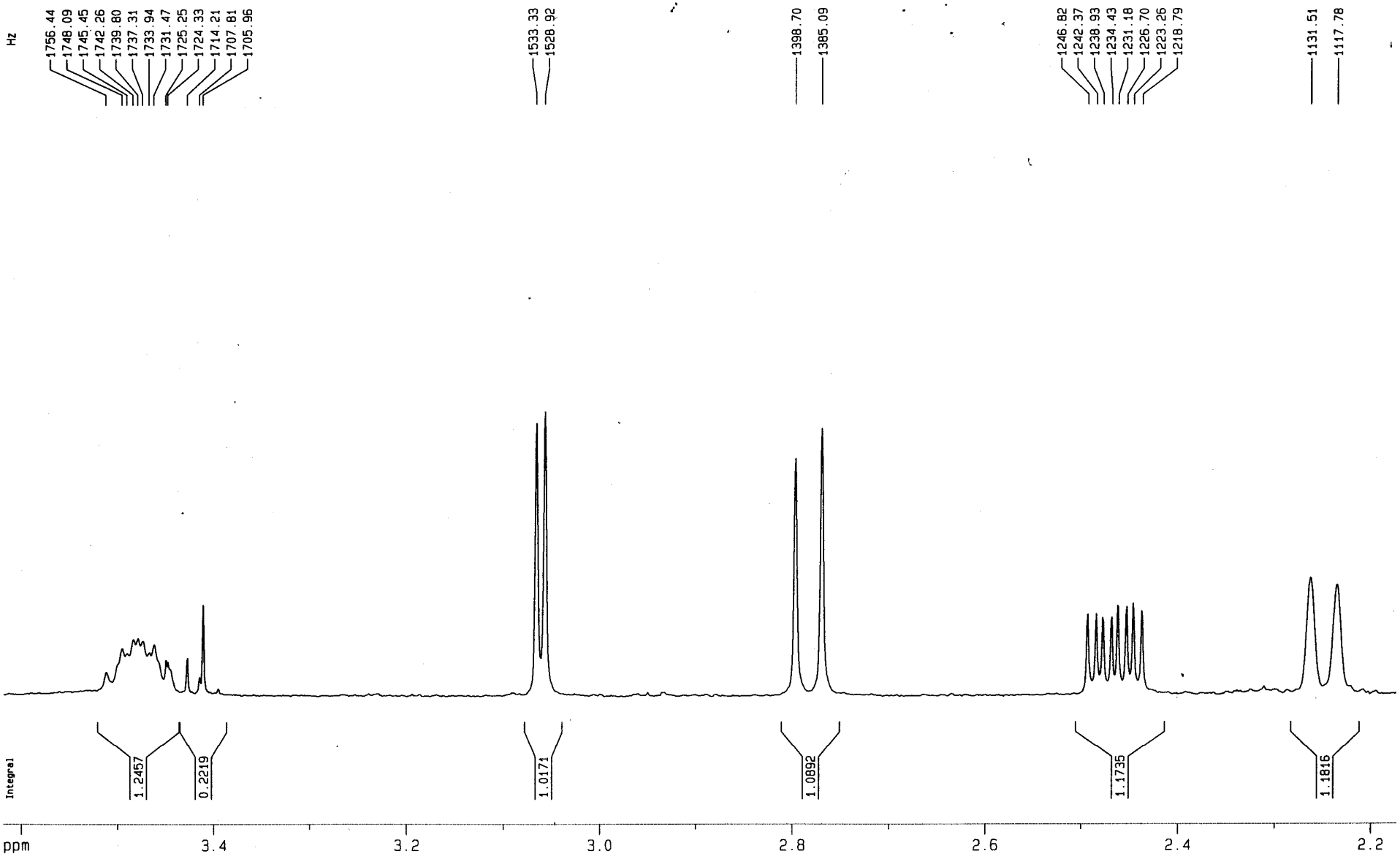
S27 ^{1}H NMR spectrum of **8** ($CDCl_3$, 500 MHz)



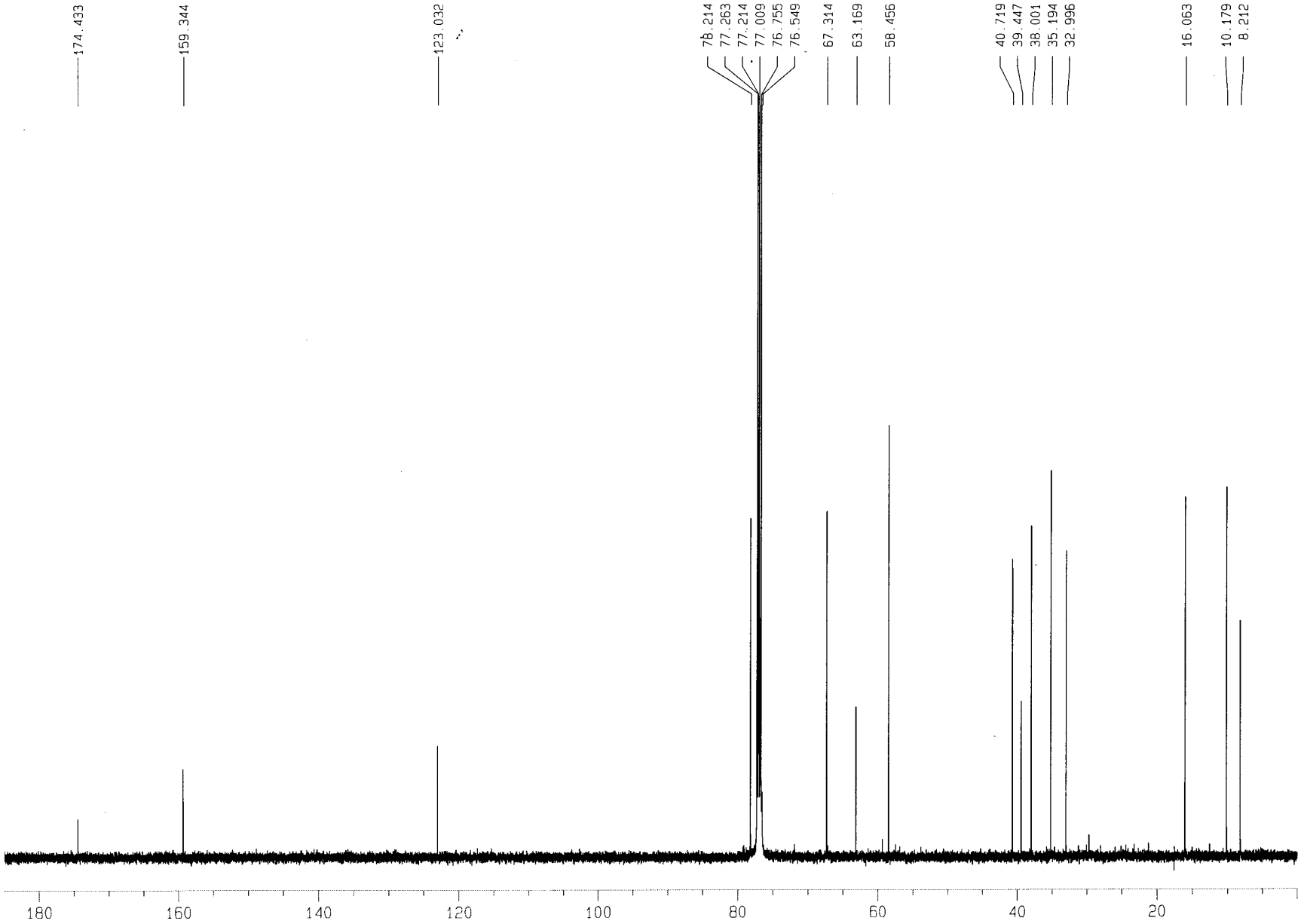
S28 ^{1}H NMR spectrum of **8** ($CDCl_3$, 500 MHz), expanded



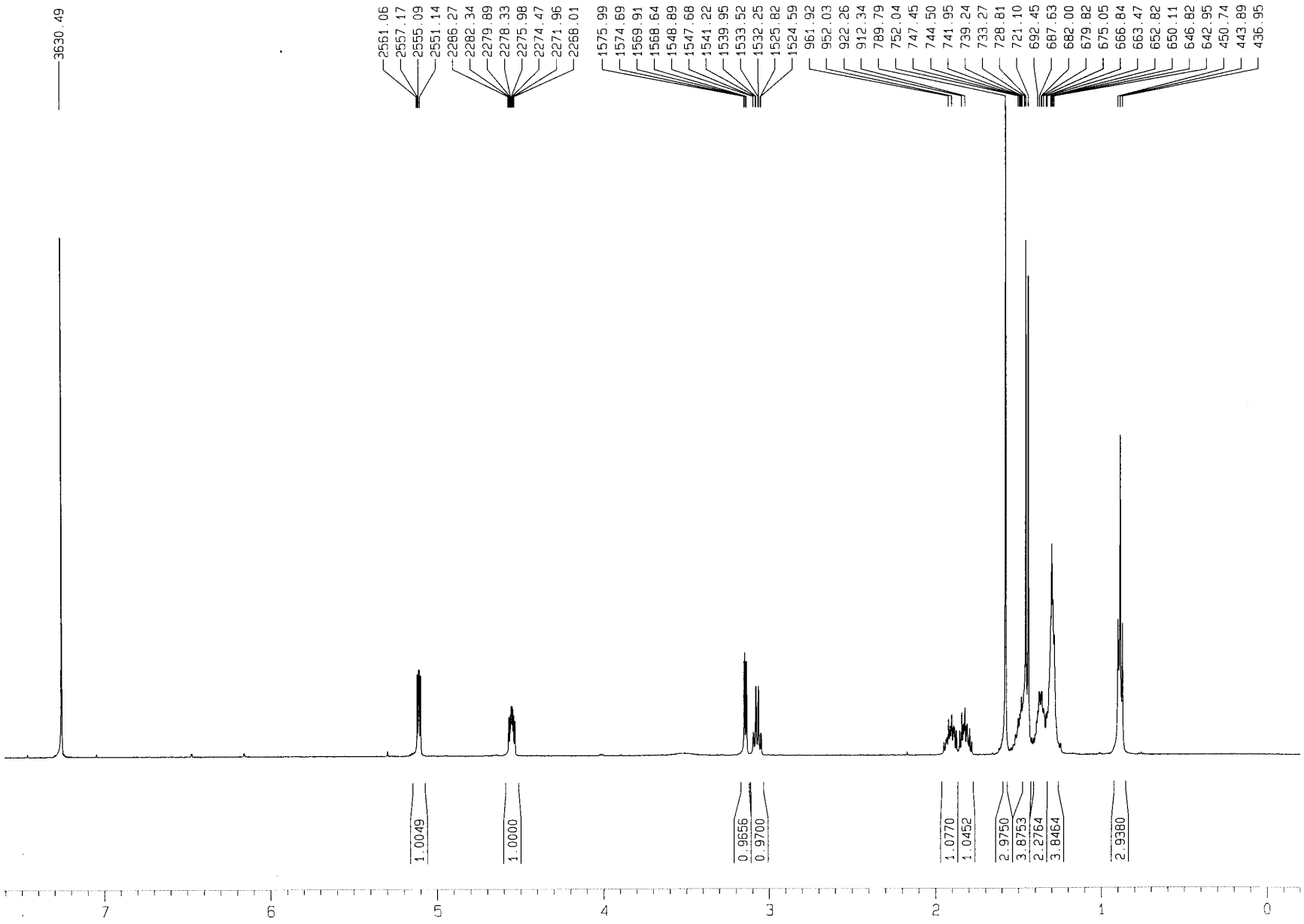
S29 ^{1}H NMR spectrum of **8** ($CDCl_3$, 500 MHz), expanded



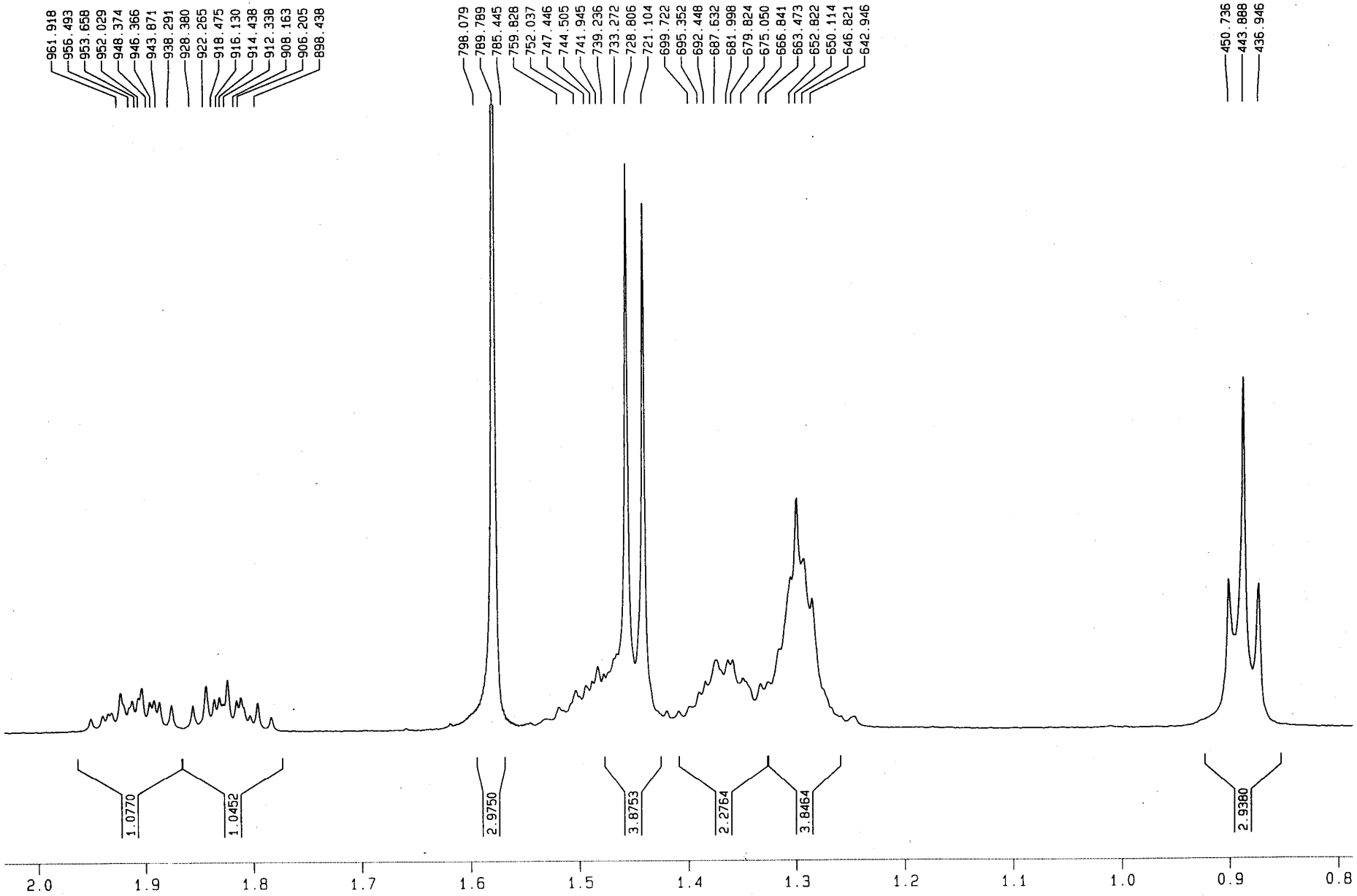
S30 ^{13}C NMR spectrum of **8** ($CDCl_3$, 125 MHz)



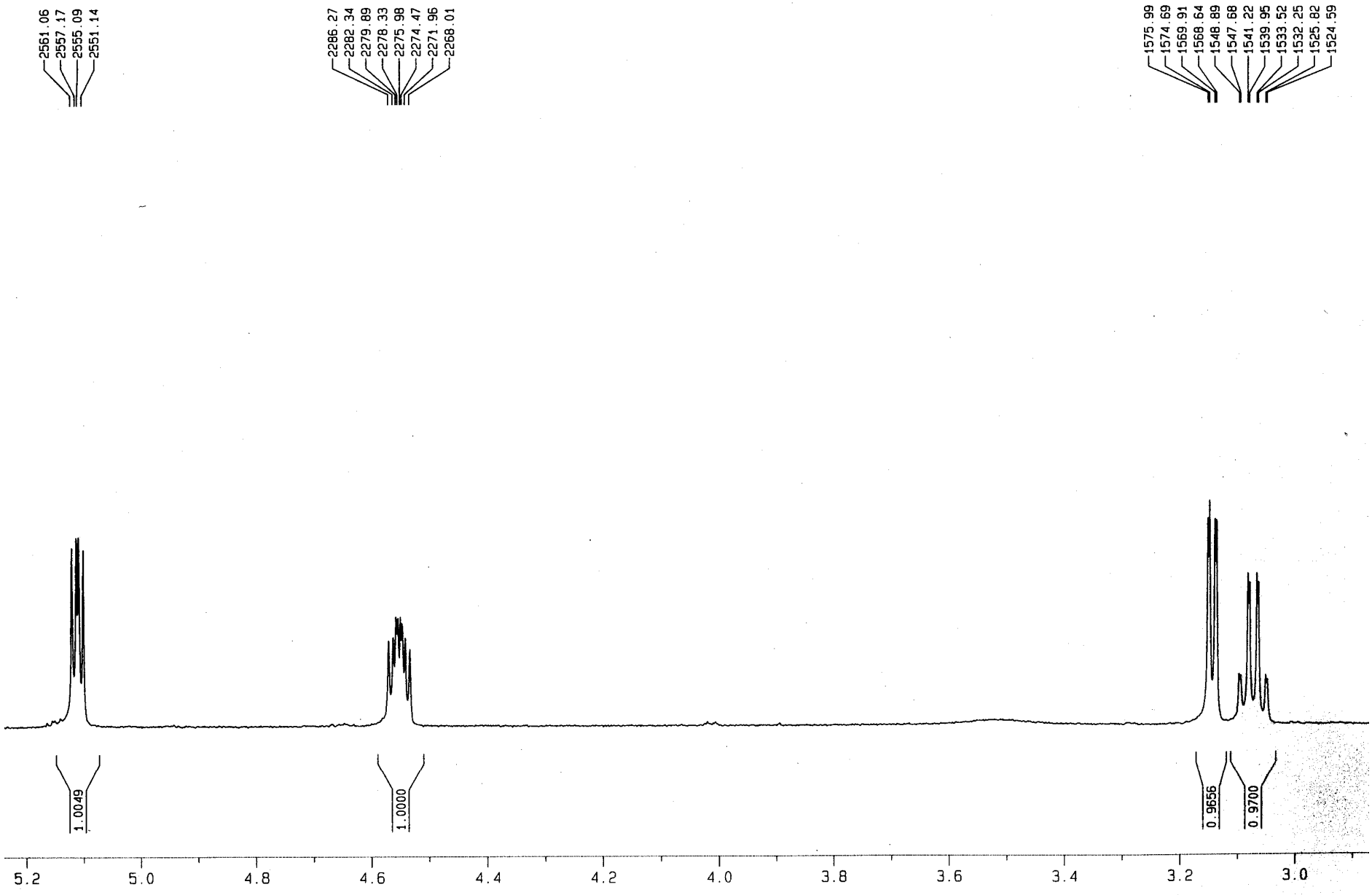
S31 ^{1}H NMR spectrum of **9** ($CDCl_3$, 500 MHz)



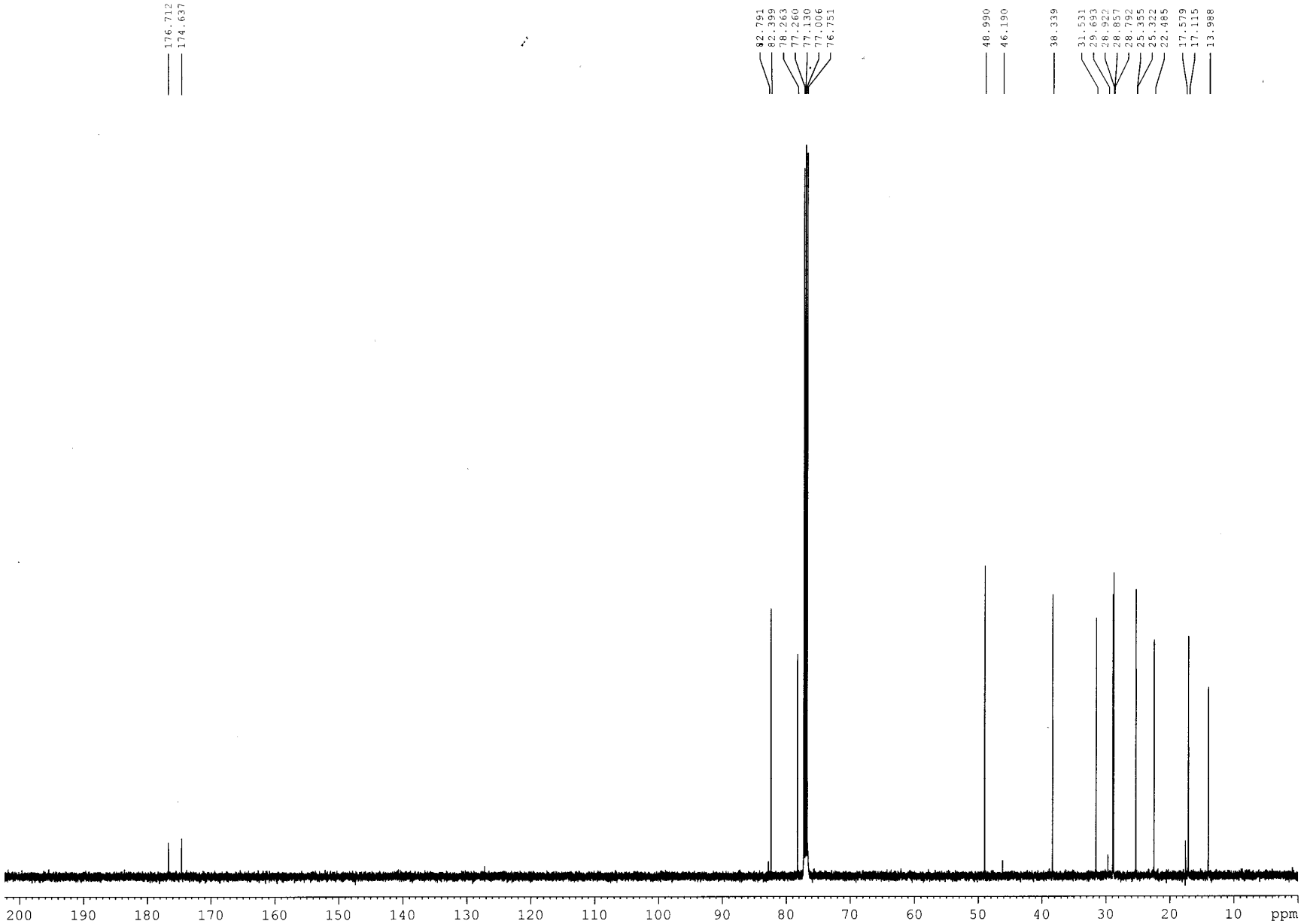
S32 ^{1}H NMR spectrum of **9** ($CDCl_3$, 500 MHz), expanded



S33 ^{1}H NMR spectrum of **9** ($CDCl_3$, 500 MHz), expanded



S34 ^{13}C NMR spectrum of **9** ($CDCl_3$, 125 MHz)



S35 Table: Biological Activities of Compounds **1**−**3**, **6**, and **7**

Compound	*P. falciparum*[a] (IC_{50}, μM)	*M. tuberculosis*[b] (MIC, μM)	*C. albicans*[c] (IC_{50}, μM)	cytotoxicity (IC_{50}, μM)			
				KB[d]	MCF-7[d]	NCI-H187[d]	Vero[e]
1	>35	>177	>177	5.0	15	7.2	8.5
2	8.1	42	>169	21	15	3.8	3.9
3	13	47	7.8	10	10	5.8	9.4
6	>38	>188	>188	>188	>188	>188	>188
7	>38	>189	>189	>189	>189	>189	>189

[a] Antimalarial activity against *Plasmodium falciparum* K1. Standard antimalarial drug, dihydroartemisinin, showed an IC_{50} value of 0.0040 μM. [b] Antituberculosis activity against *Mycobacterium tuberculosis* H37Ra. Standard anti-TB compounds, isoniazid and rifampicin, showed MIC values of 0.17–0.34 and 0.004–0.015 μM, respectively. [c] Antifungal activity against *Candida albicans*. Standard compound, amphotericin B, showed an IC_{50} value of 0.049 μM. [d] The IC_{50} values of a standard compound, doxorubicin hydrochloride, against KB, MCF-7, and NCI-H187 cancer cell-lines were 0.40, 1.8, and 0.066 μM, respectively. [e] The IC_{50} value of a standard compound, ellipticine, was 6.3 μM