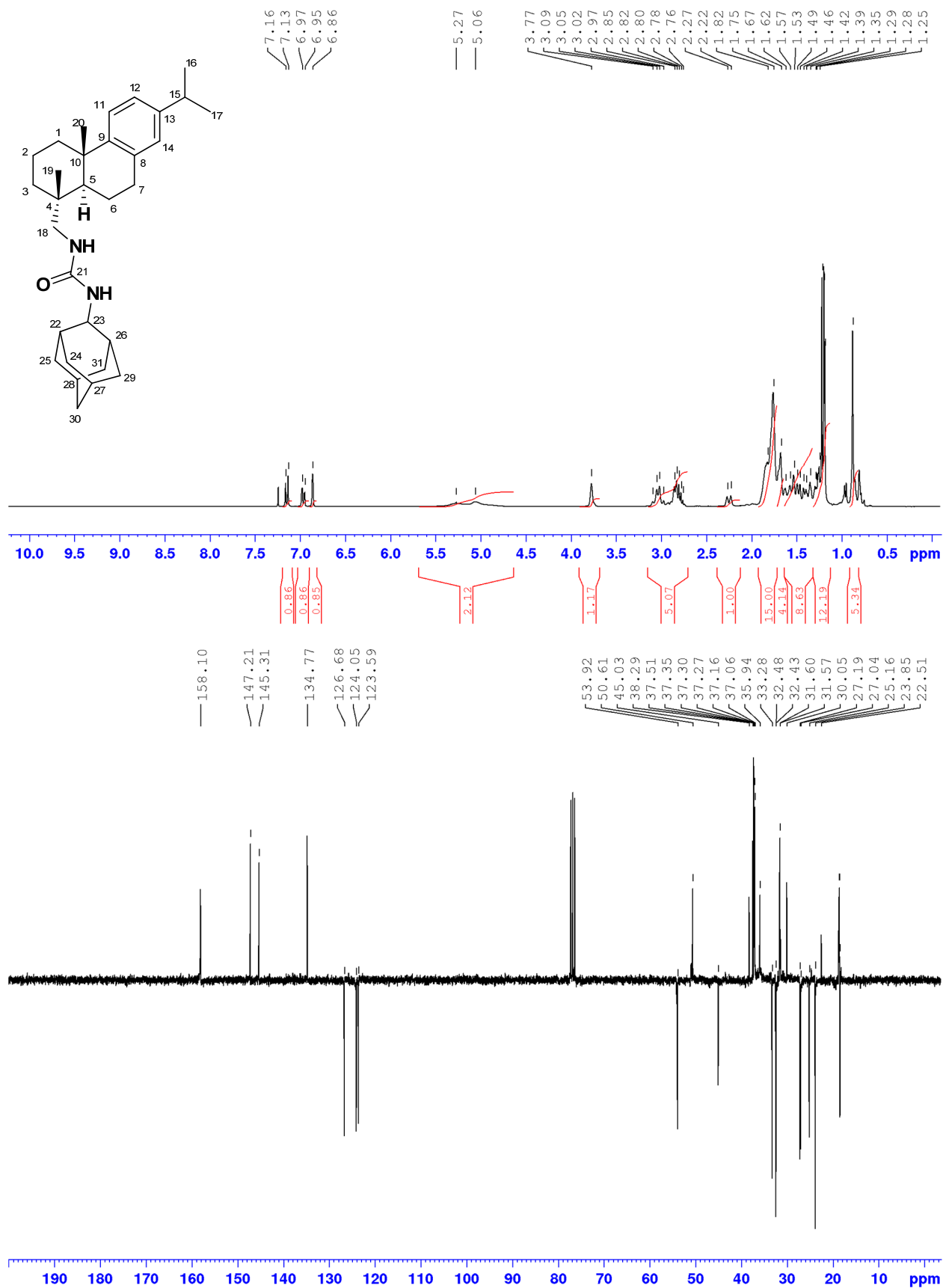
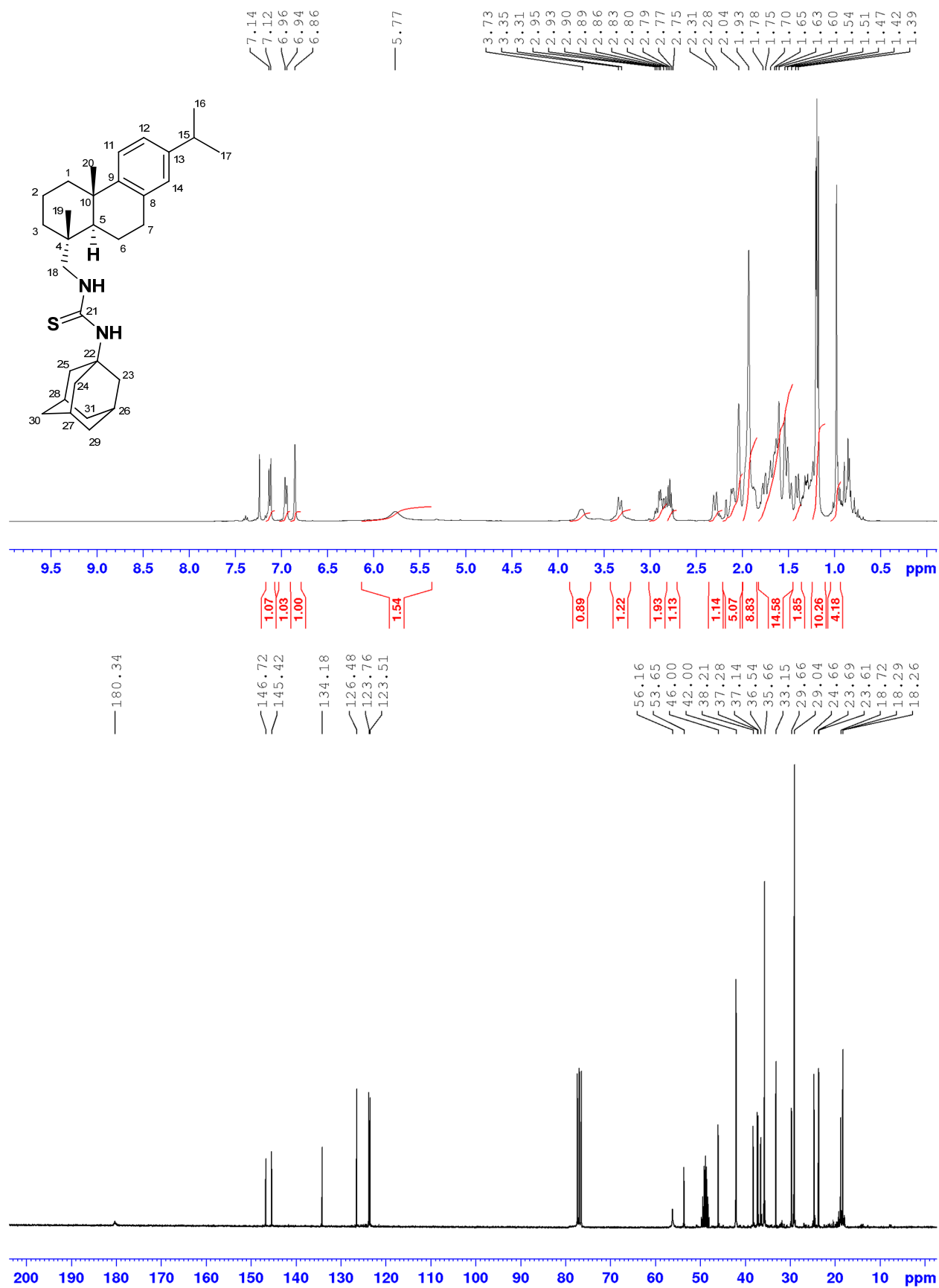


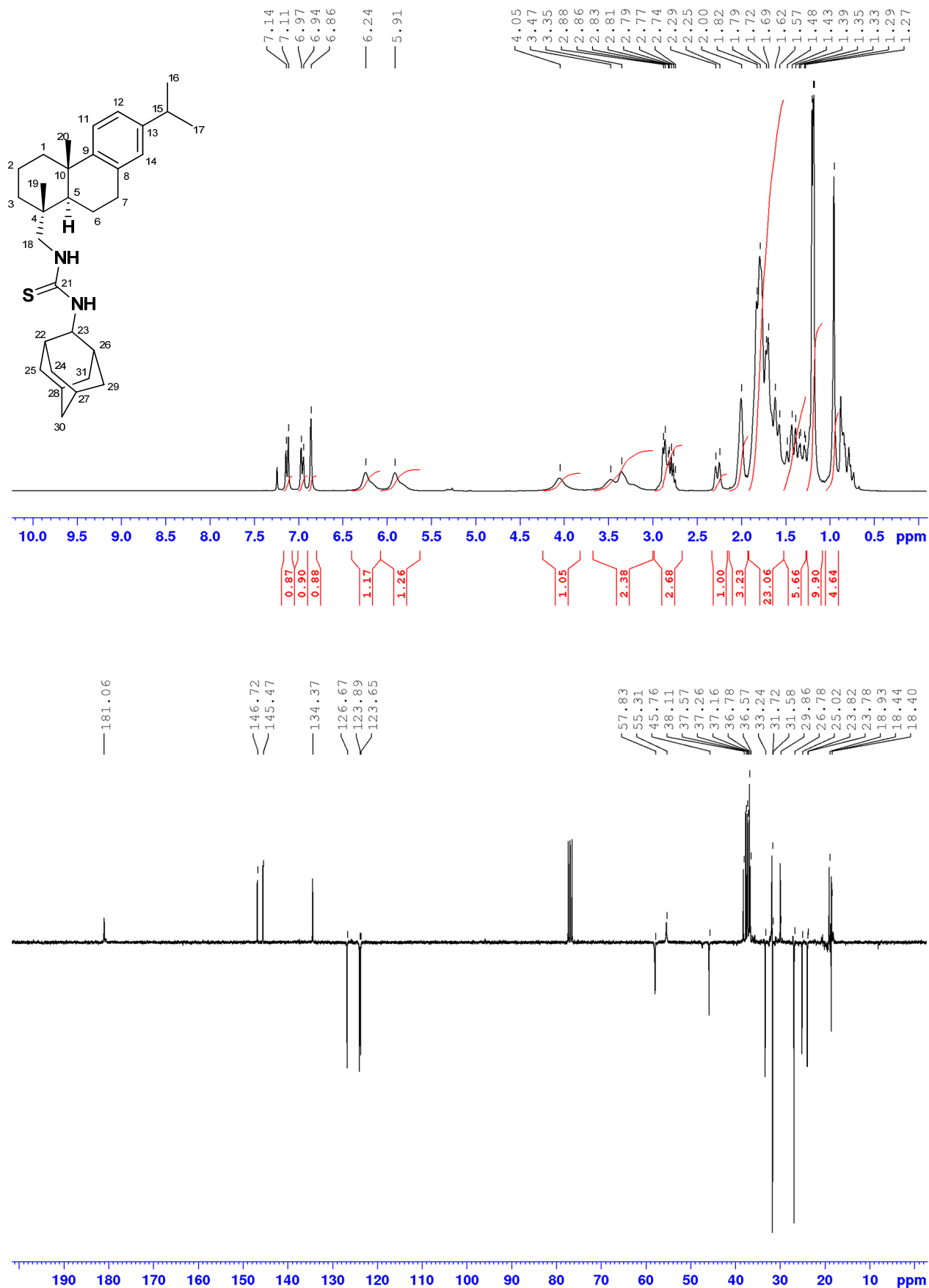
# <sup>1</sup>H and <sup>13</sup>C NMR spectra for compound 2



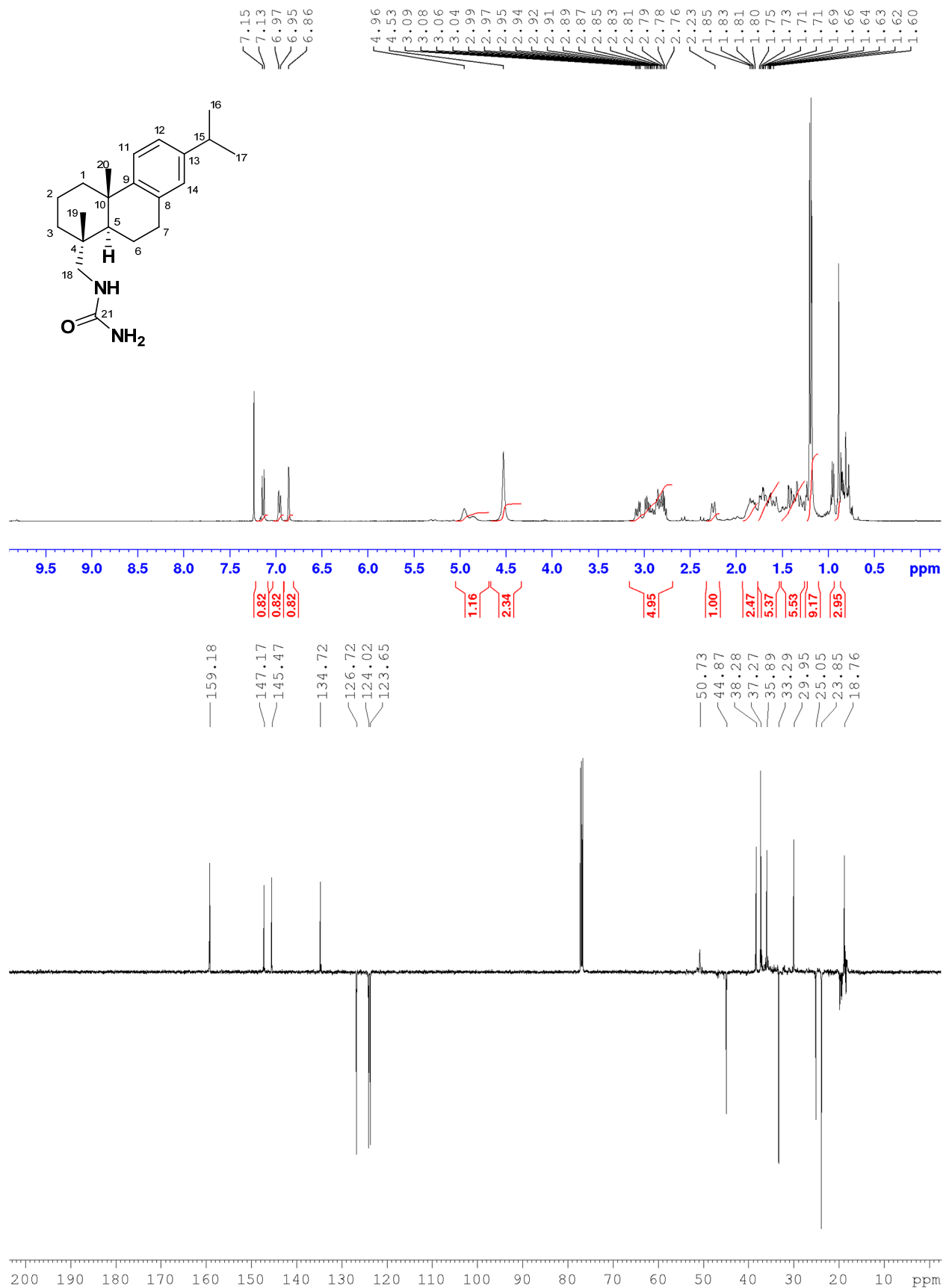
# <sup>1</sup>H and <sup>13</sup>C NMR spectra for compound 3



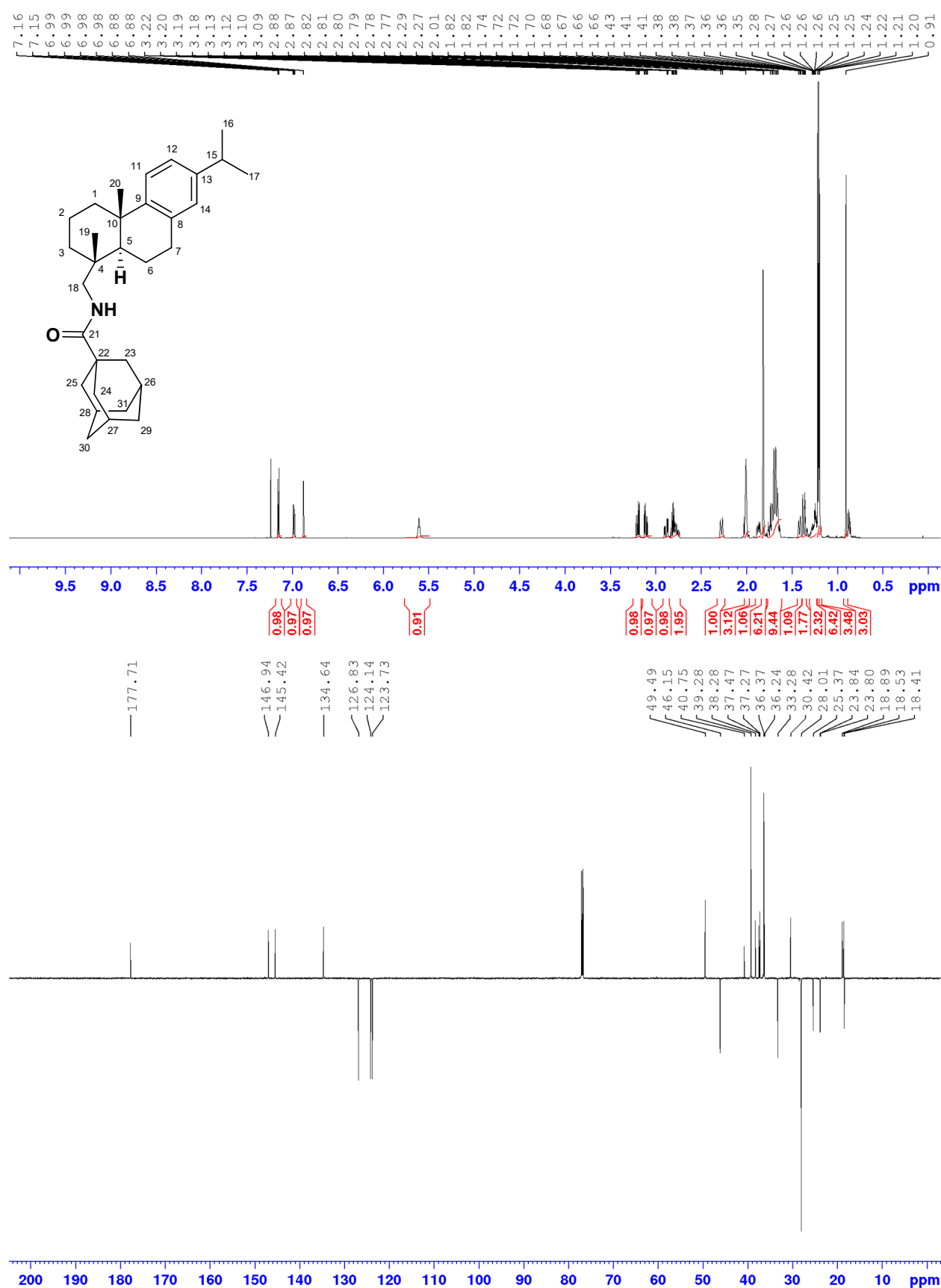
# <sup>1</sup>H and <sup>13</sup>C NMR spectra for compound 4



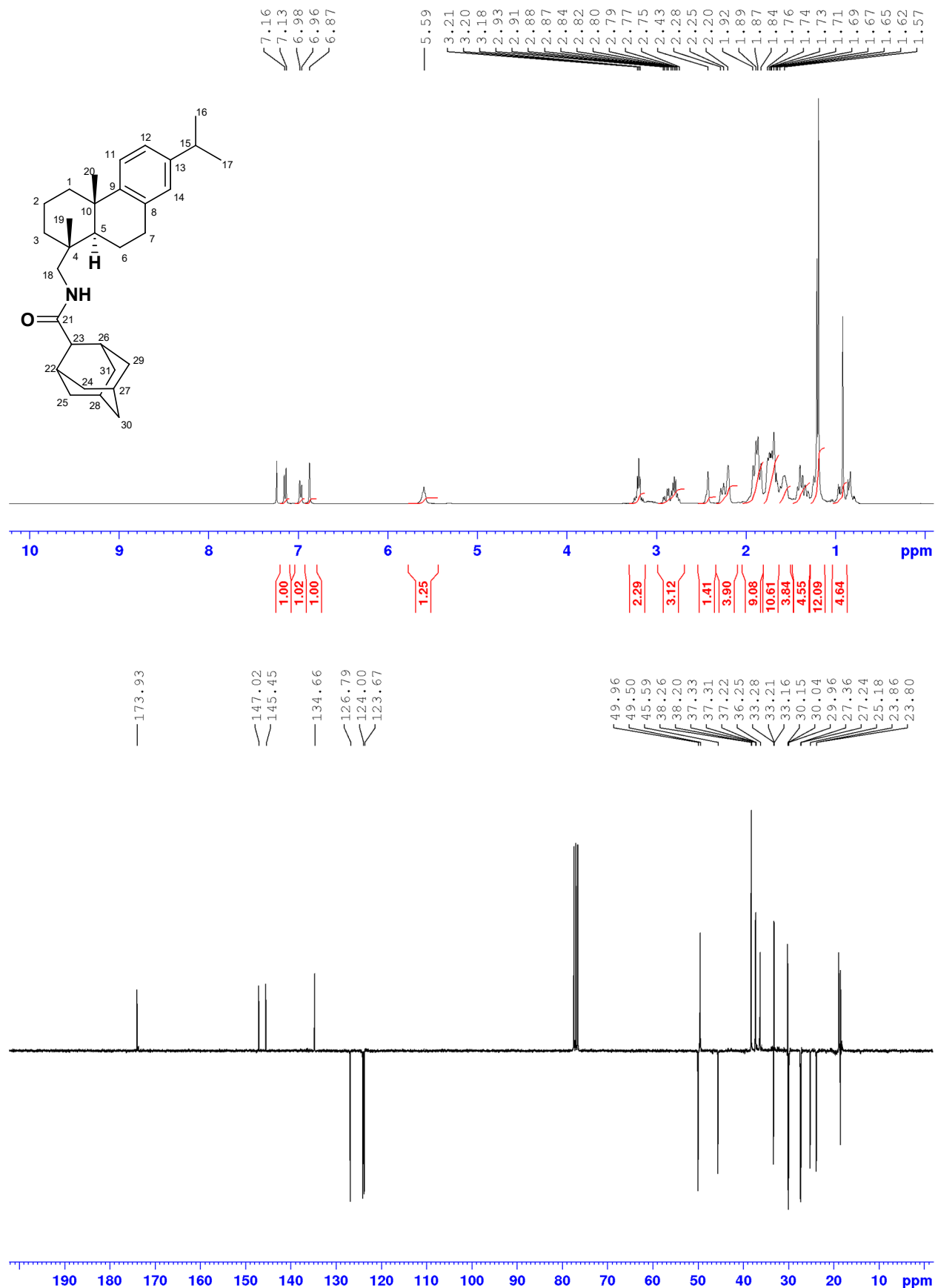
# <sup>1</sup>H and <sup>13</sup>C NMR spectra for compound 5



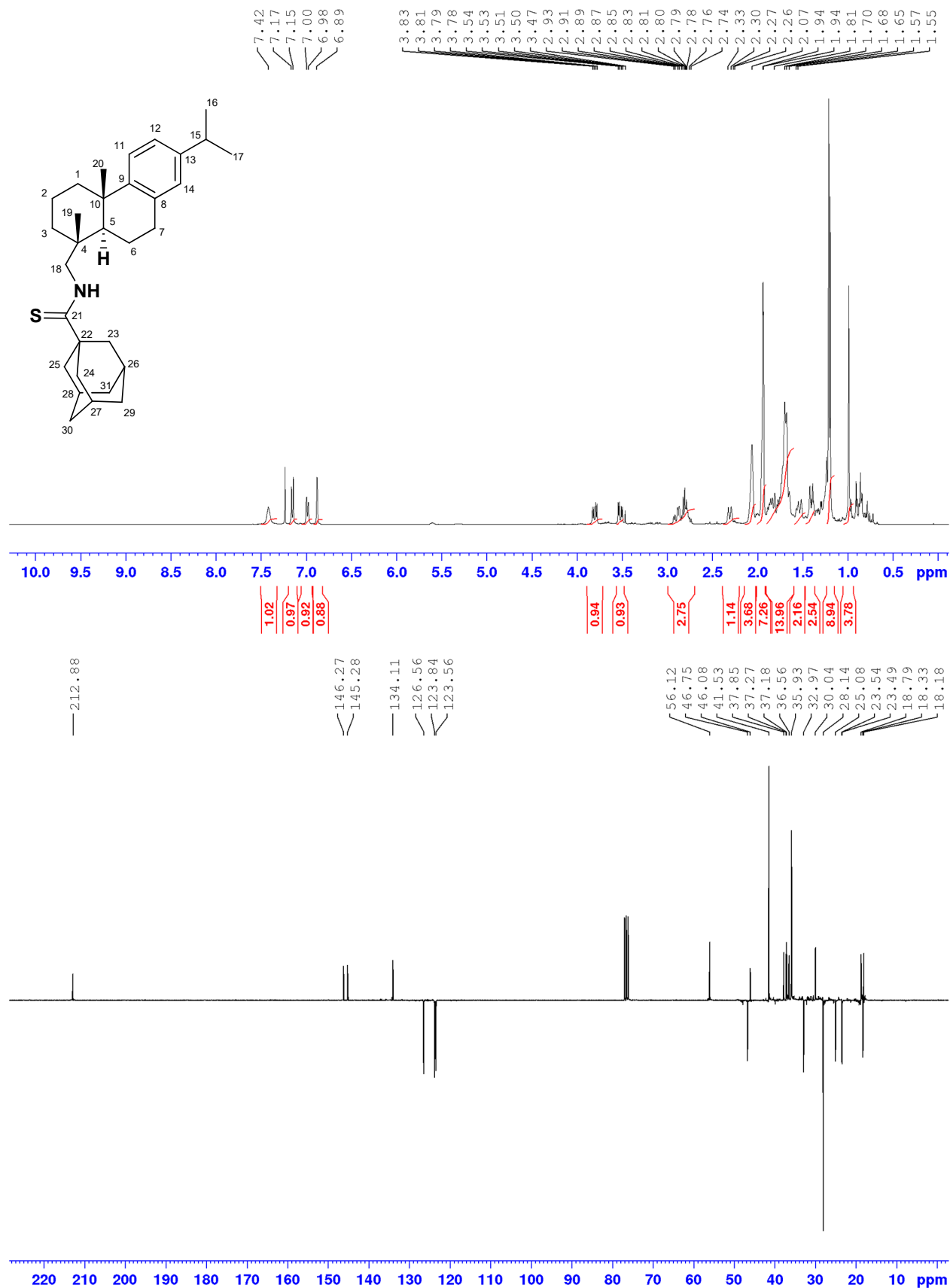
# <sup>1</sup>H and <sup>13</sup>C NMR spectra for compound 6



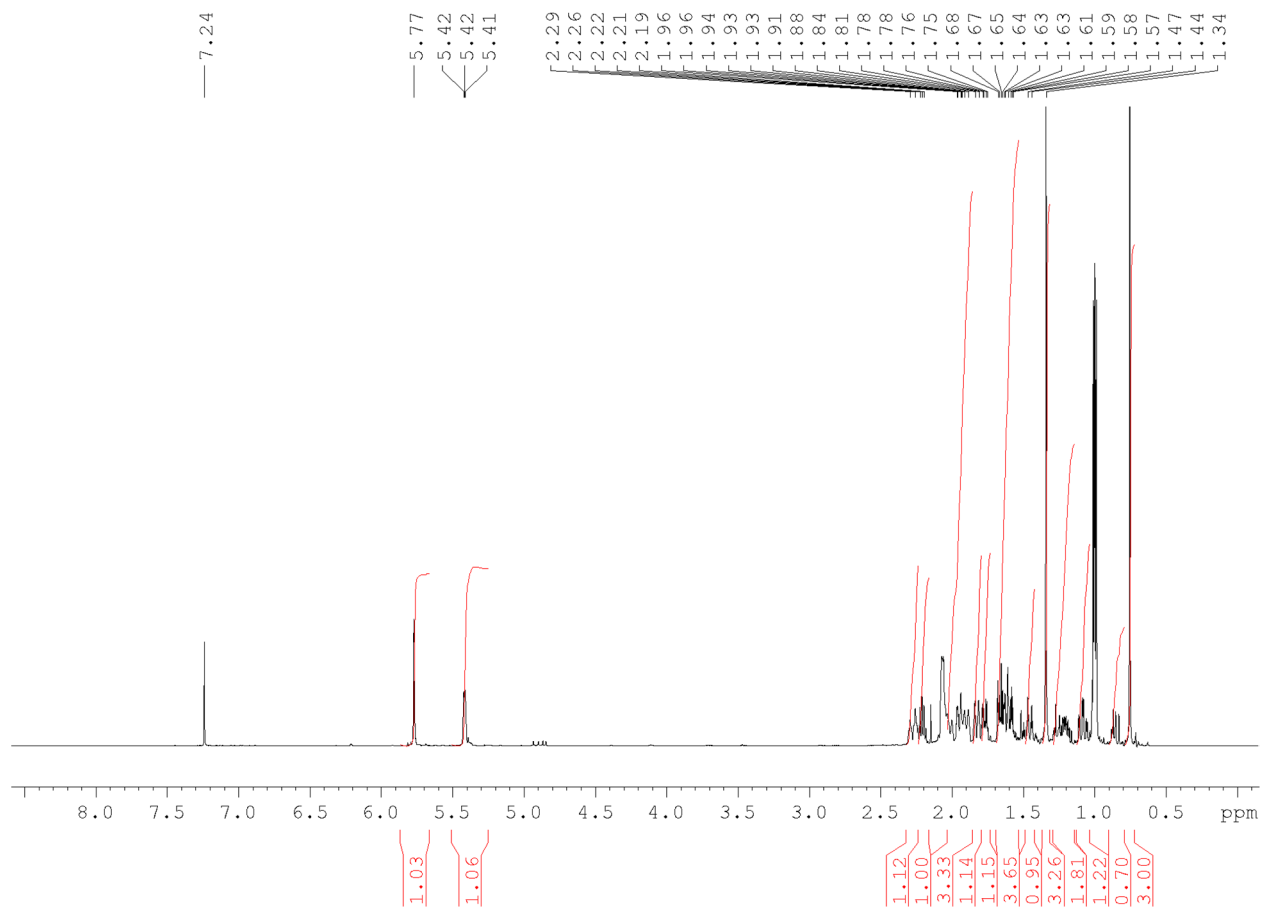
# <sup>1</sup>H and <sup>13</sup>C NMR spectra for compound 7



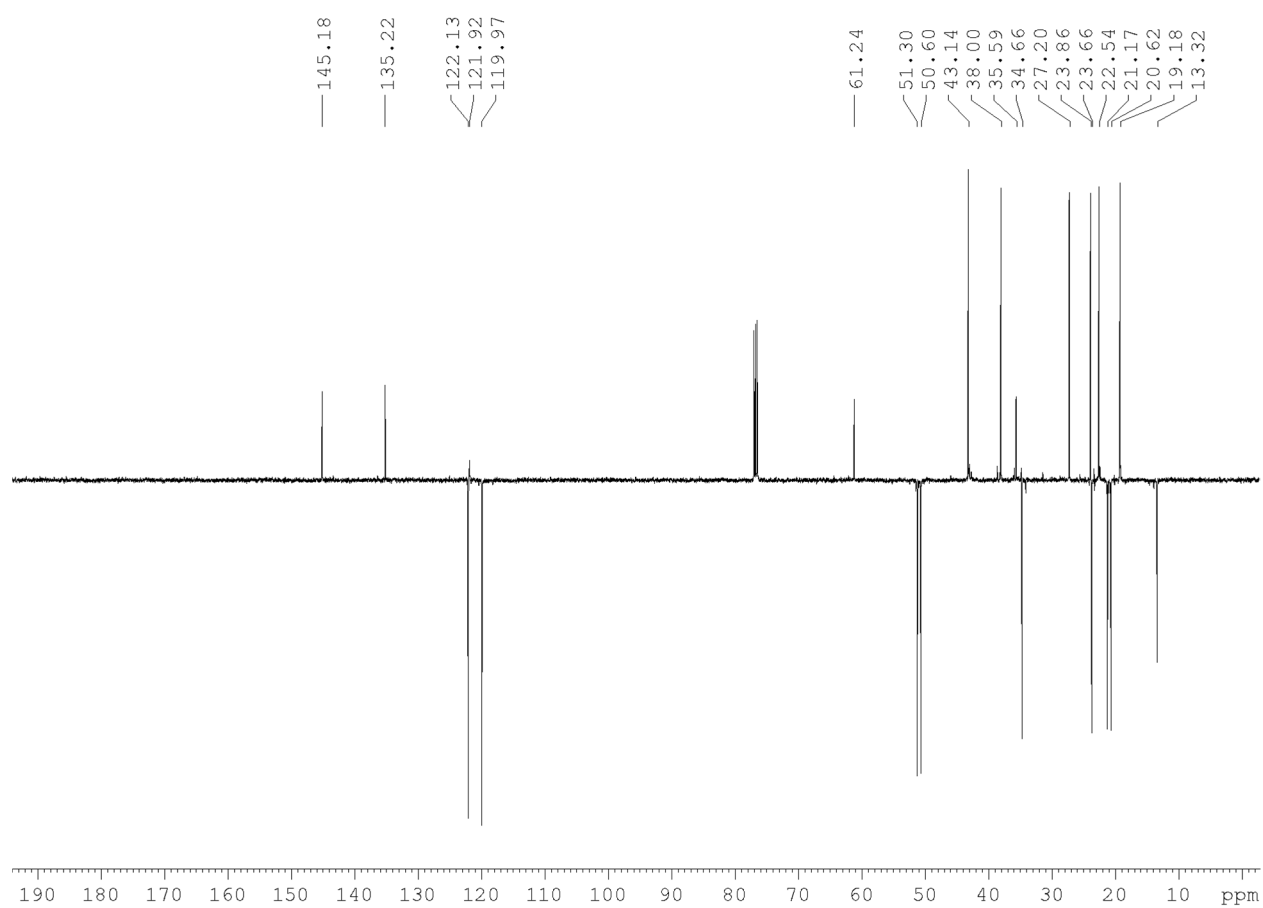
# <sup>1</sup>H and <sup>13</sup>C NMR spectra for compound 8



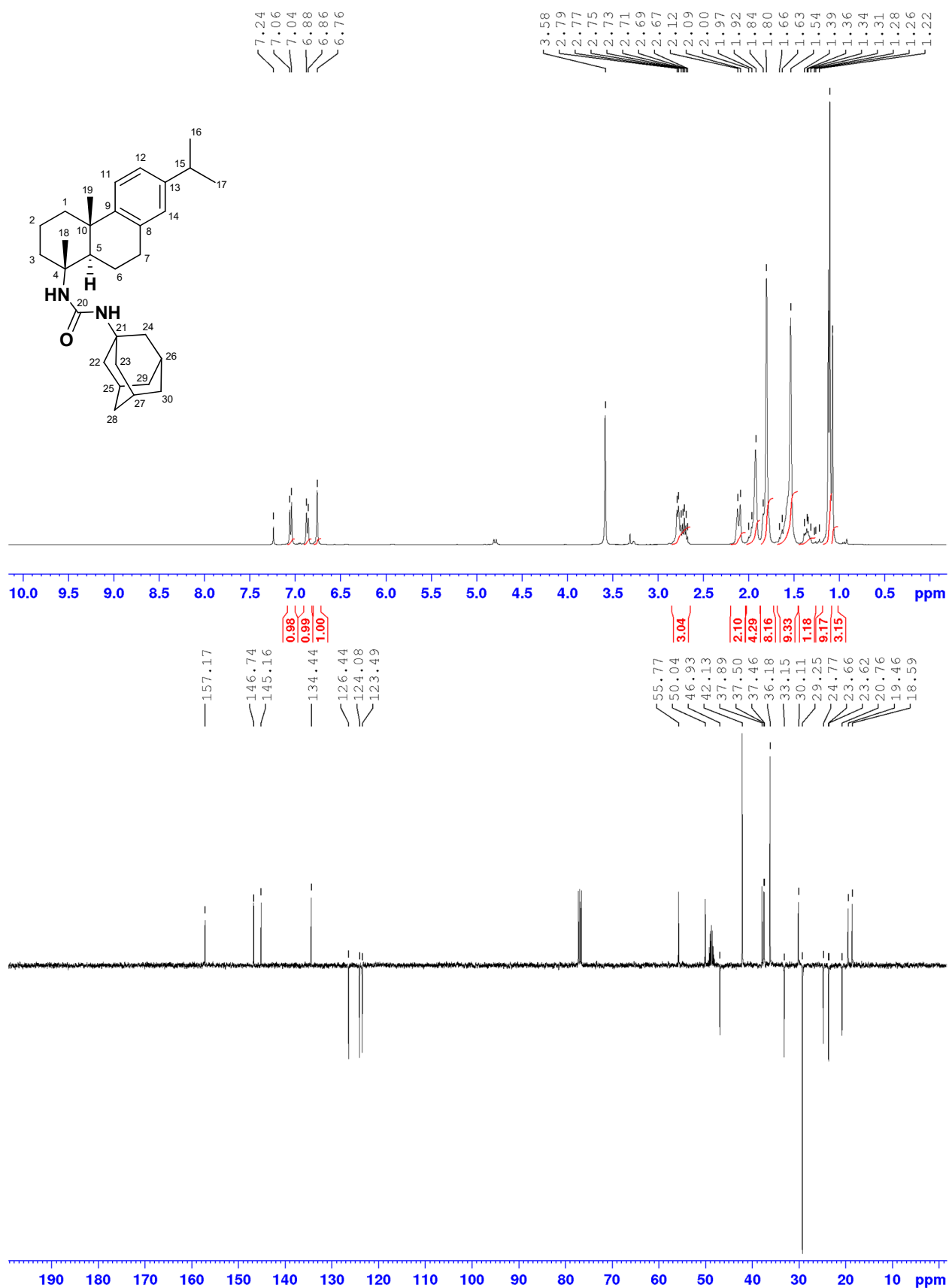
# $^1\text{H}$ and $^{13}\text{C}$ NMR spectra for norabietyl isocyanate



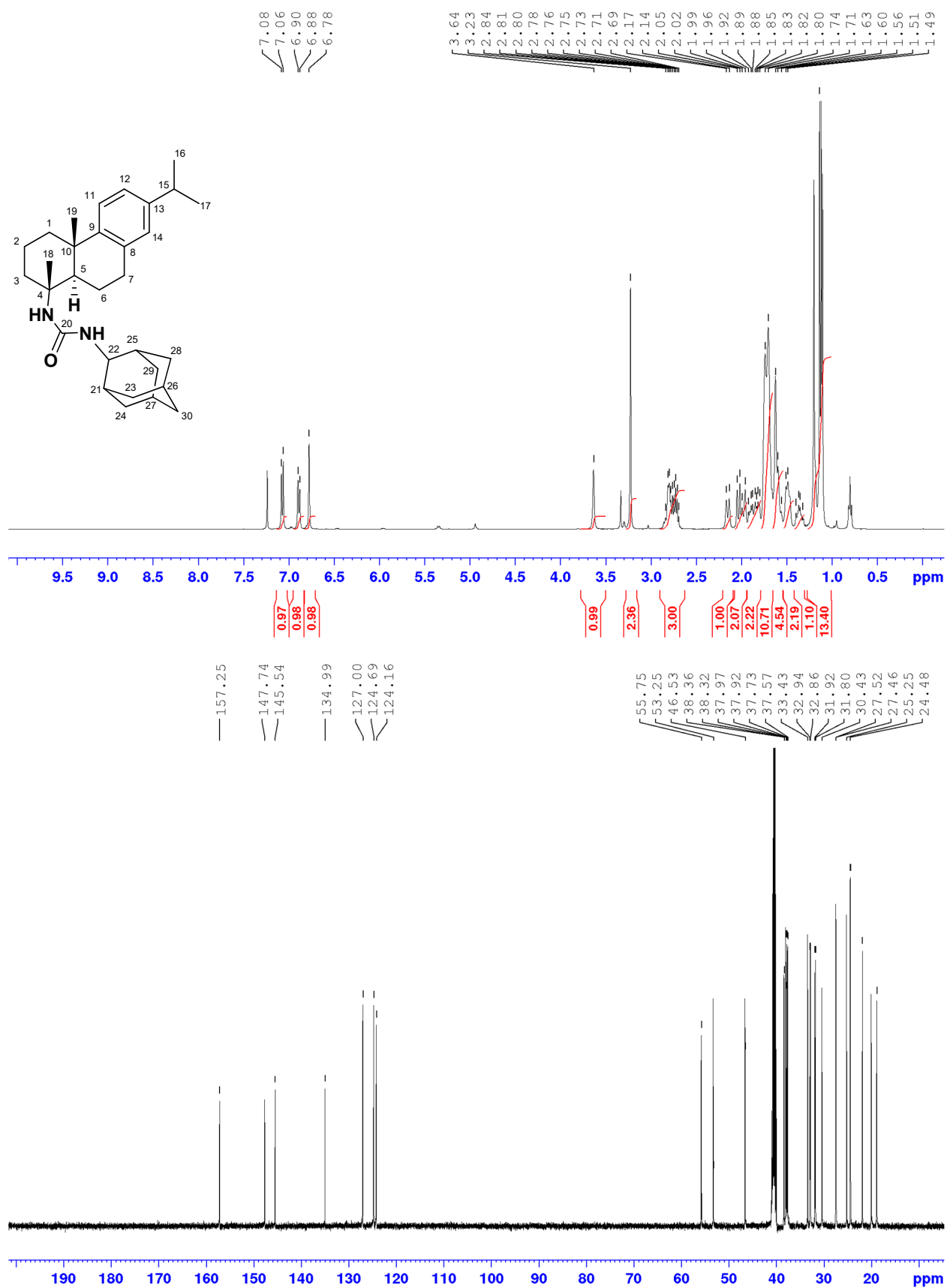




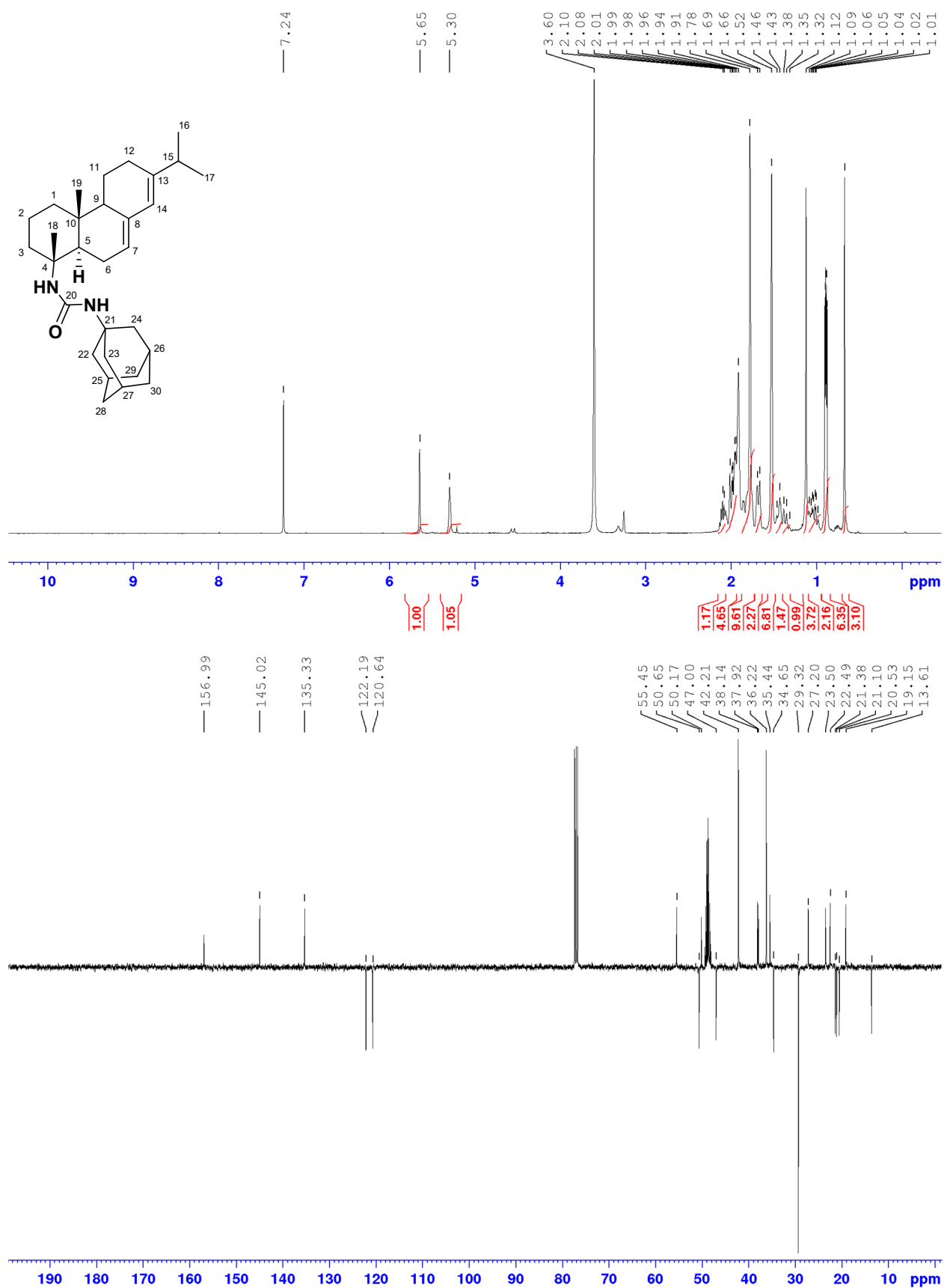
**<sup>1</sup>H and <sup>13</sup>C NMR spectra for compound 9**



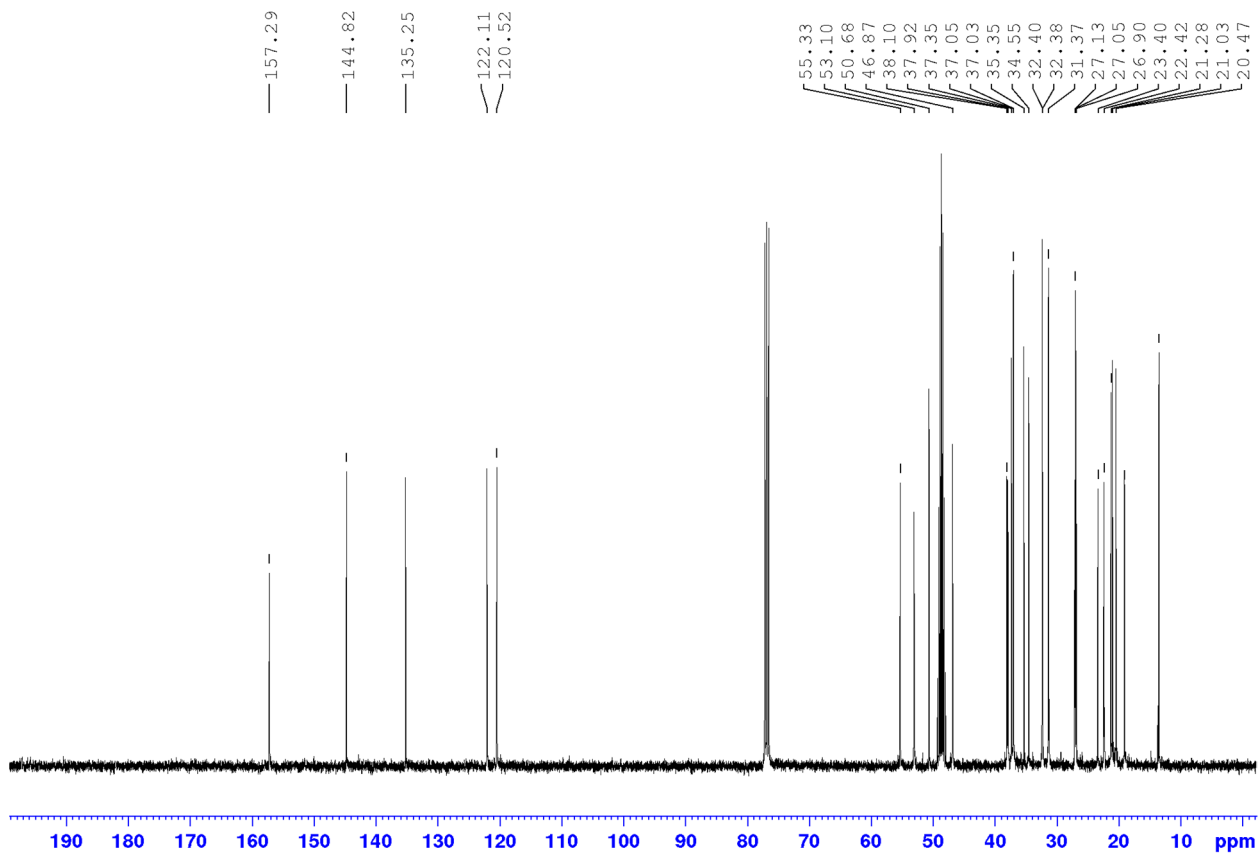
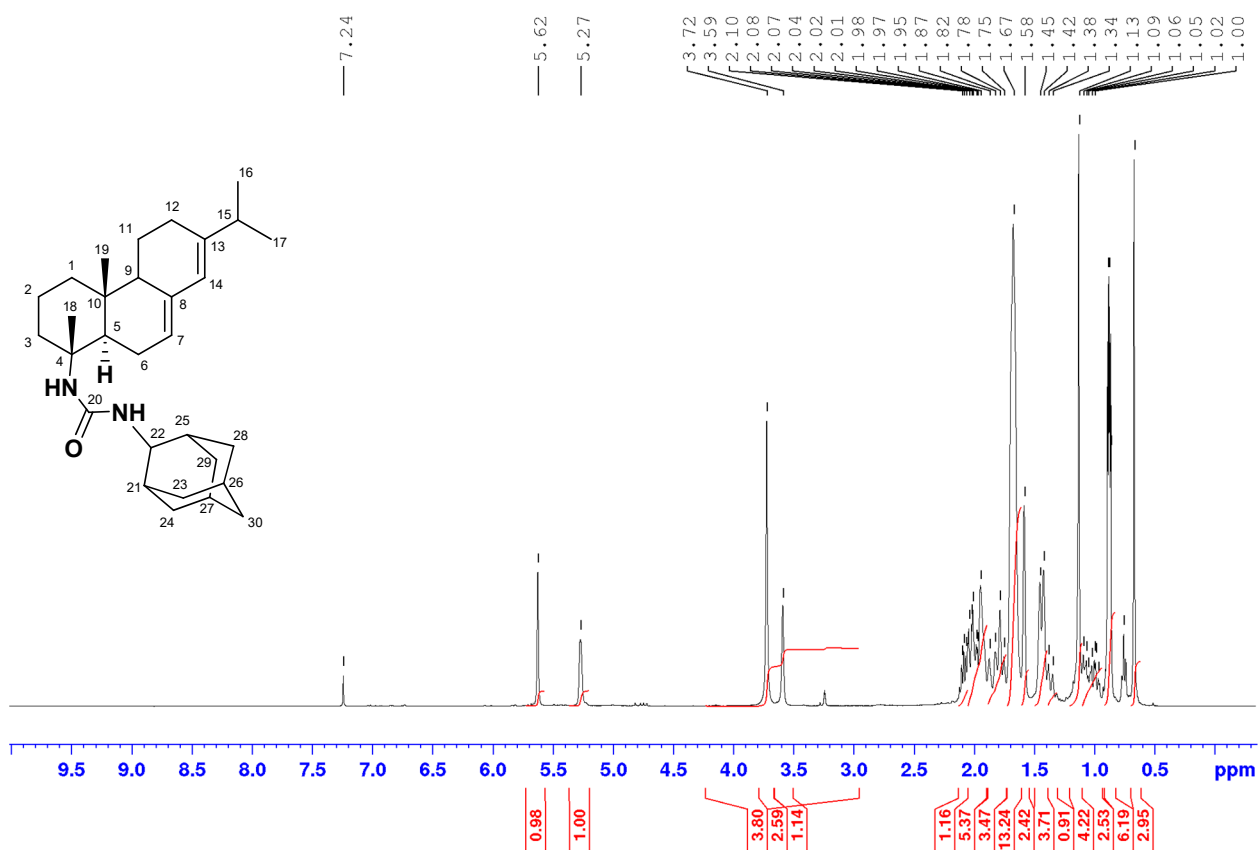
**<sup>1</sup>H and <sup>13</sup>C NMR spectra for compound 10**



**<sup>1</sup>H and <sup>13</sup>C NMR spectra for compound 11**



$^1\text{H}$  and  $^{13}\text{C}$  NMR spectra for compound 12



**Table S1.** LogP values for adamantane derivatives predicted with GALAS algorithm (implemented in the ACD/Percepta software, [www.acdlabs.com](http://www.acdlabs.com)), and the corresponding rate of brain penetration (LogPS) and extent of brain penetration (LogBB) calculated using LogP, molecular size, and H-bonding parameters as inputs. LogPS varies from -2.2 to -1.4 and LogBB from 0.2 to 0.48, which is suitable for penetrating into the central nervous system.

Compound	LogP <sup>GALAS</sup>	LogPS	LogBB
			
1	7.50	-2.1	0.24
2	7.31	-1.9	0.20
3	7.60	-2.0	0.30
4	7.38	-1.9	0.27
6	7.48	-1.8	0.48
7	7.34	-1.7	0.48
8	8.28	-2.2	0.29
9	7.19	-1.8	0.30
10	7.27	-1.9	0.29
11	6.72	-1.6	0.47
12	6.30	-1.4	0.29