

13-Methyl-3,4-seco-ent-podocarpanes, rare C18-diterpenoids from the roots of *Flueggea virosa*

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For compound 1:

Figure S1-1. ^1H NMR spectrum (400 MHz) of compound **1** in CDCl_3 .
Figure S1-2. ^{13}C NMR spectrum (100 MHz) of compound **1** in CDCl_3 .

For compound 2:

Figure S2-1. ^1H NMR spectrum (400 MHz) of compound **2** in CDCl_3 .
Figure S2-2. ^{13}C NMR spectrum (100 MHz) of compound **2** in CDCl_3 .

For compound 3:

Figure S3-1. ^1H NMR spectrum (400 MHz) of compound **3** in CDCl_3 .
Figure S3-2. ^{13}C NMR spectrum (100 MHz) of compound **3** in CDCl_3 .

For compound 4:

Figure S4-1. ^1H NMR spectrum (400 MHz) of compound **4** in CDCl_3 .
Figure S4-2. ^{13}C NMR spectrum (100 MHz) of compound **4** in CDCl_3 .

For compound 5:

Figure S5-1. ^1H NMR spectrum (400 MHz) of compound **5** in CD_3OD .
Figure S5-2. ^{13}C NMR spectrum (100 MHz) of compound **5** in CD_3OD .

For compound 6:

Figure S6-1. ^1H NMR spectrum (400 MHz) of compound **6** in CDCl_3 .
Figure S6-2. ^{13}C NMR spectrum (100 MHz) of compound **6** in CDCl_3 .

For compound 7:

Figure S7-1. ^1H NMR spectrum (400 MHz) of compound **7** in CDCl_3 .
Figure S7-2. ^{13}C NMR spectrum (100 MHz) of compound **7** in CDCl_3 .

For compound 8:

Figure S8-1. ^1H NMR spectrum (400 MHz) of compound **8** in CDCl_3 .

Figure S8-2. ^{13}C NMR spectrum (100 MHz) of compound **8** in CDCl_3 .

For compound 9:

Figure S9-1. ^1H NMR spectrum (400 MHz) of compound **9** in CDCl_3 .
Figure S9-2. ^{13}C NMR spectrum (100 MHz) of compound **9** in CDCl_3 .
Figure S9-3. Partial NOE spectrum of **9**.

For compound 10:

Figure S10-1. ^1H NMR spectrum (400 MHz) of compound **10** in CDCl_3 .
Figure S10-2. ^{13}C NMR spectrum (100 MHz) of compound **10** in CDCl_3 .

For compound 11:

Figure S11-1. ^1H NMR spectrum (400 MHz) of compound **11** in CDCl_3 .
Figure S11-2. ^{13}C NMR spectrum (100 MHz) of compound **11** in CDCl_3 .

For compound 12:

Figure S12-1. ^1H NMR spectrum (400 MHz) of compound **12** in CDCl_3 .
Figure S12-2. ^{13}C NMR spectrum (100 MHz) of compound **12** in CDCl_3 .

For compound 13:

Figure S13-1. ^1H NMR spectrum (400 MHz) of compound **13** in CDCl_3 .
Figure S13-2. ^{13}C NMR spectrum (100 MHz) of compound **13** in CDCl_3 .

For compound 14:

Figure S14-1. ^1H NMR spectrum (400 MHz) of compound **14** in CDCl_3 .
Figure S14-2. ^{13}C NMR spectrum (100 MHz) of compound **14** in CDCl_3 .

Figure S15-1. Selected HMBC correlations of **1-14**.

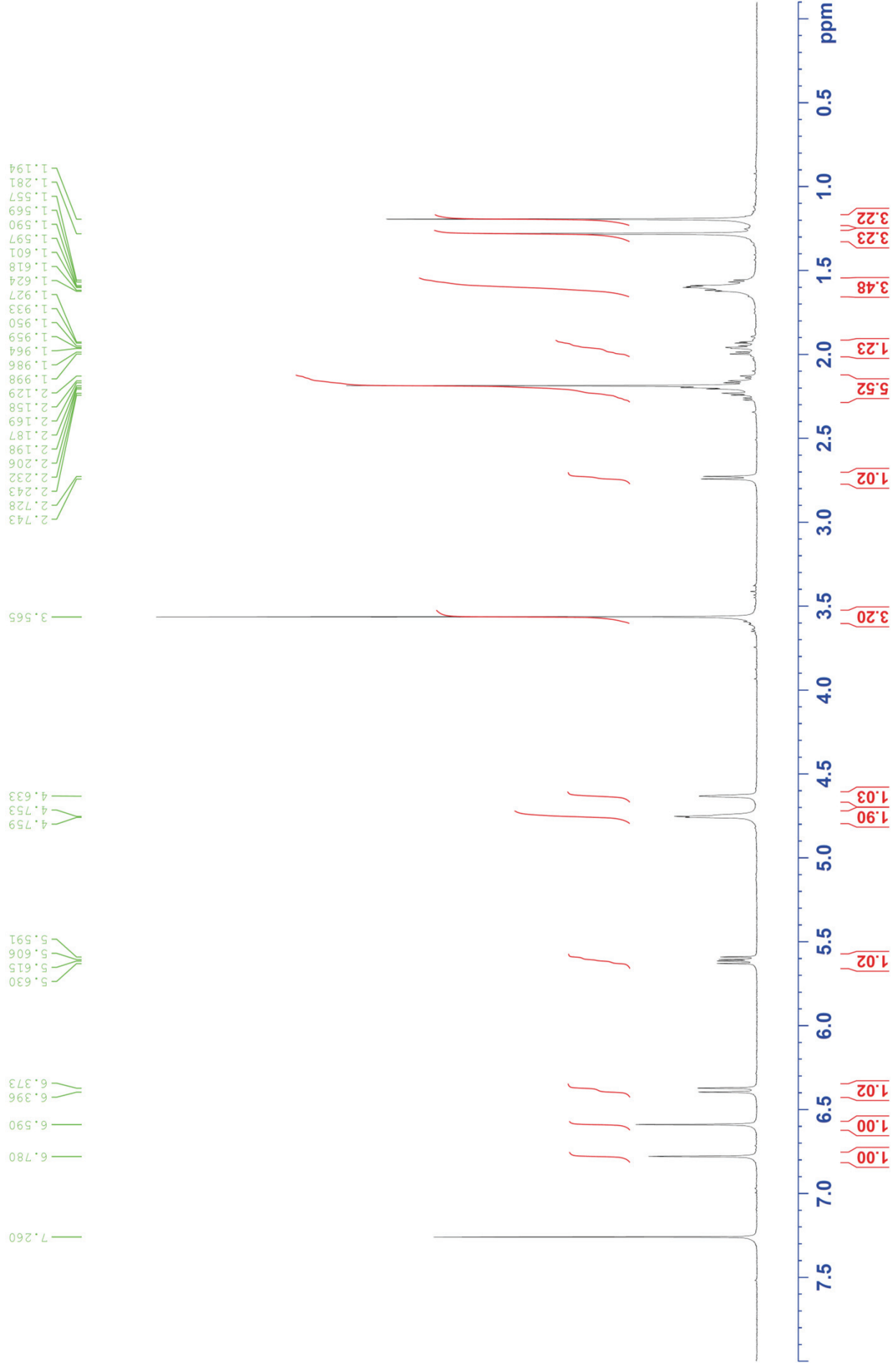


Figure S1-1. ¹H NMR spectrum (400 MHz) of compound **1** in CDCl₃.

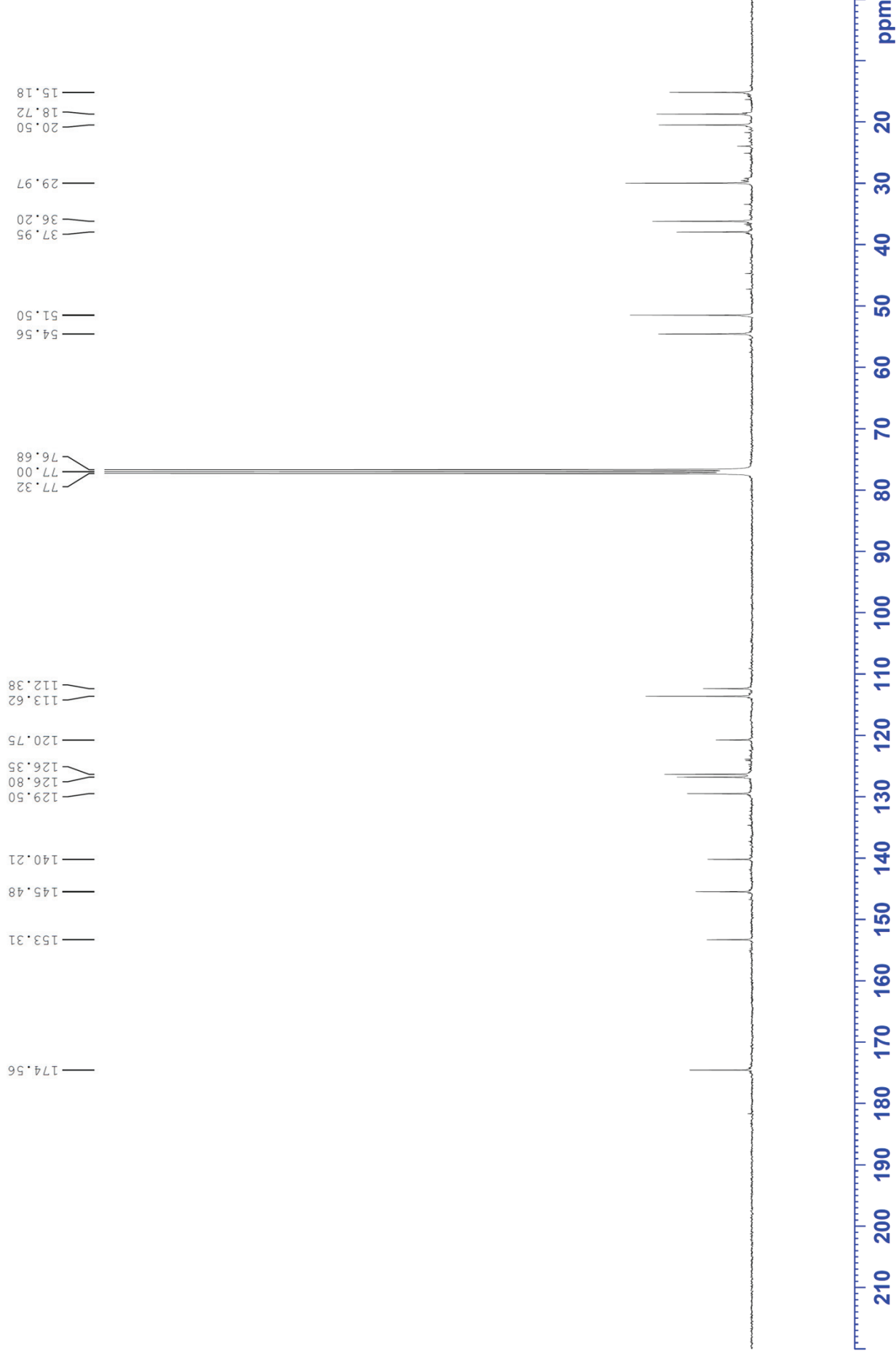


Figure S1-2. ¹³C NMR spectrum (100 MHz) of compound **1** in CDCl₃.

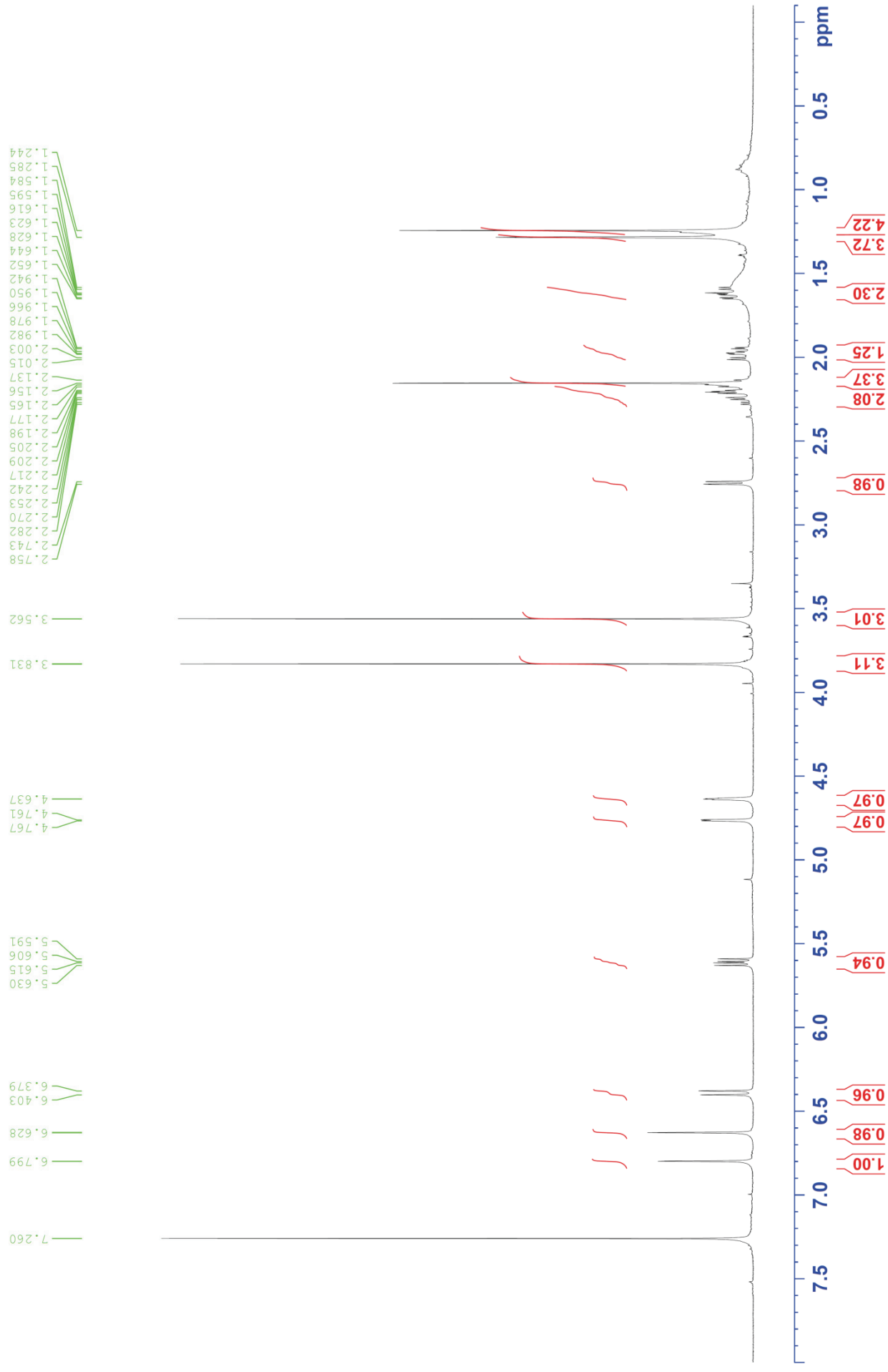


Figure S2-1. ¹H NMR spectrum (400 MHz) of compound **2** in CDCl₃.

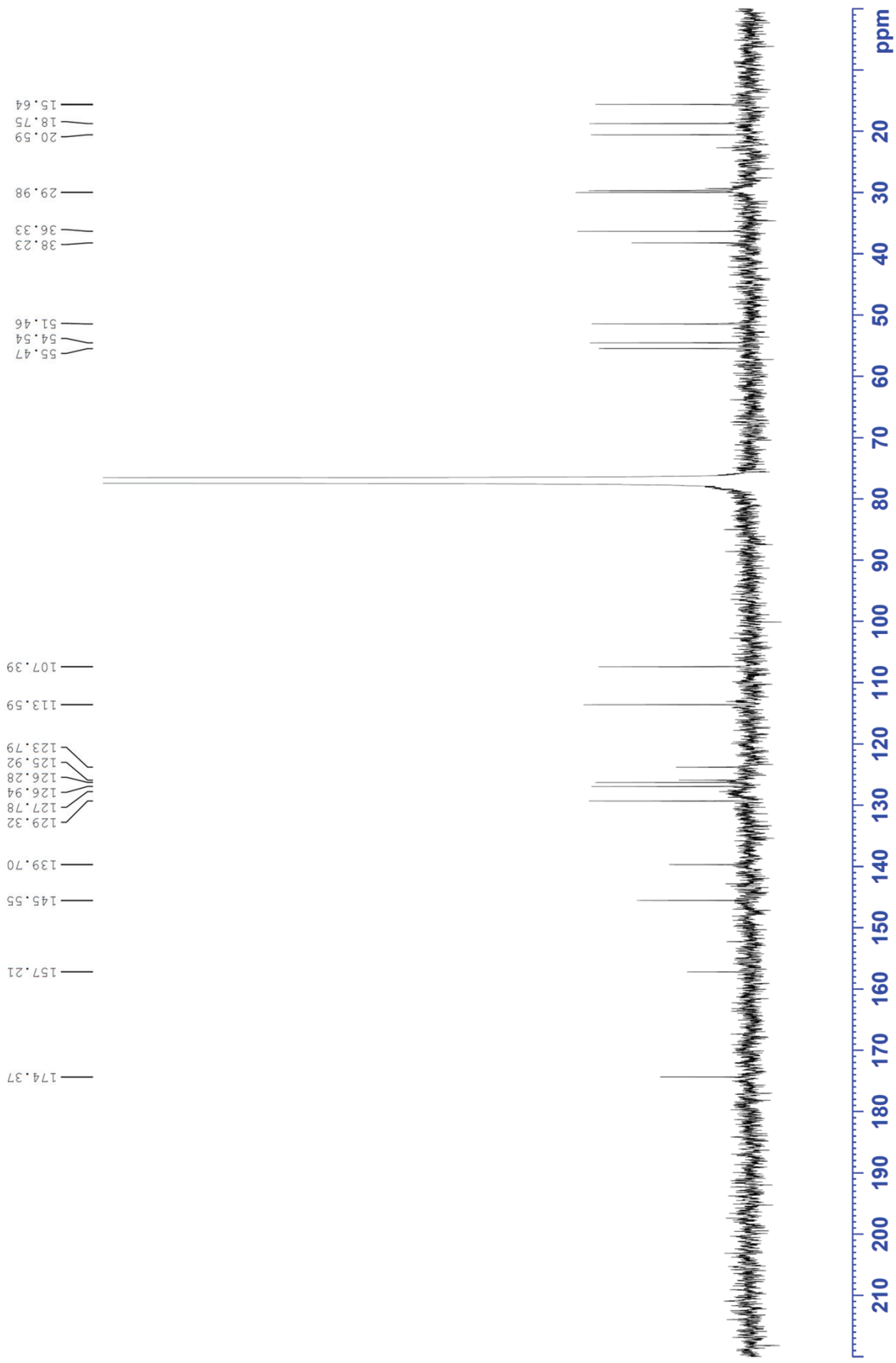


Figure S2-2. ¹³C NMR spectrum (100 MHz) of compound **2** in CDCl₃.

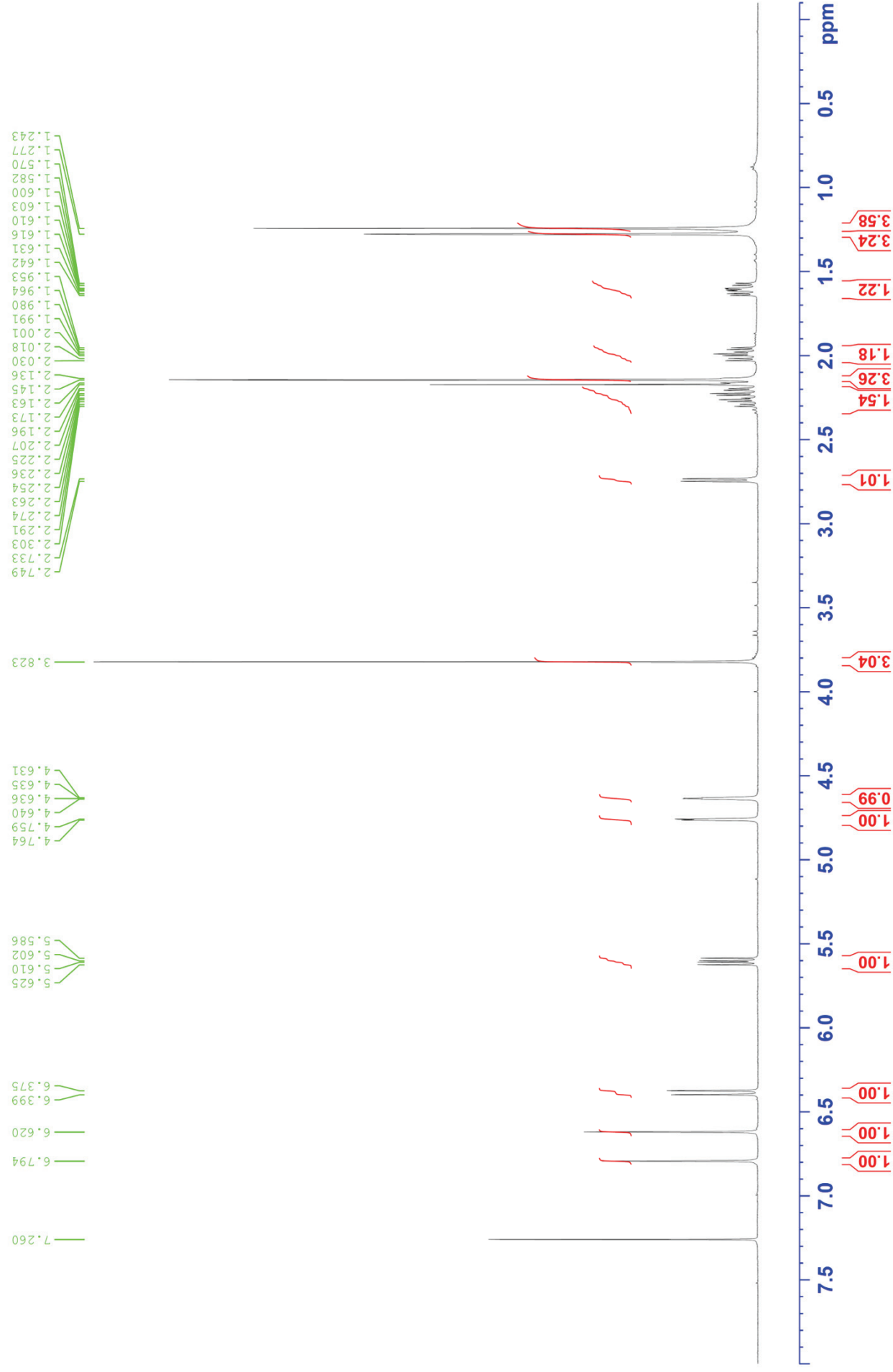


Figure S3-1. ¹H NMR spectrum (400 MHz) of compound **3** in CDCl₃.

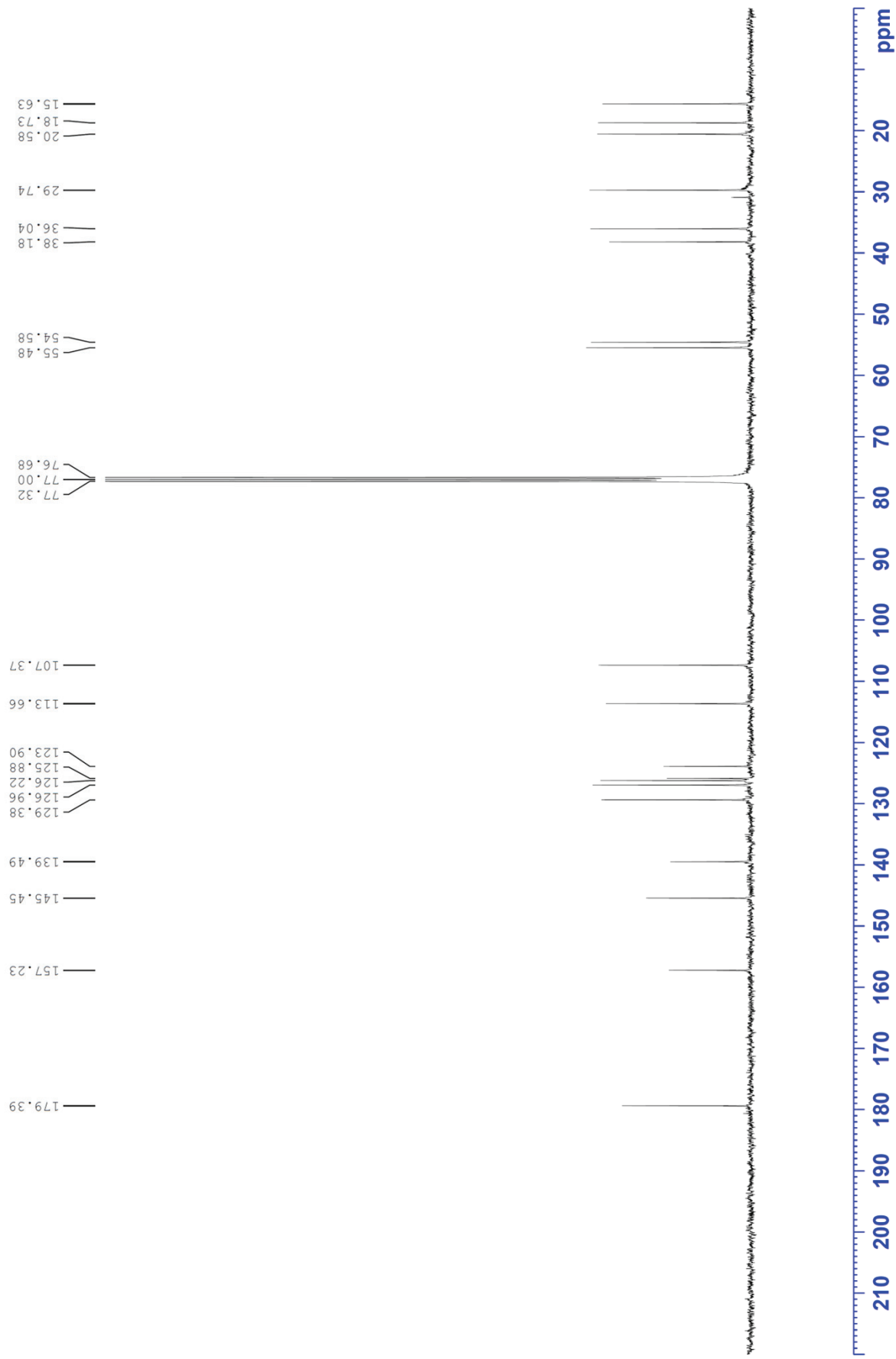


Figure S3-2. ¹³C NMR spectrum (100 MHz) of compound **3** in CDCl₃.

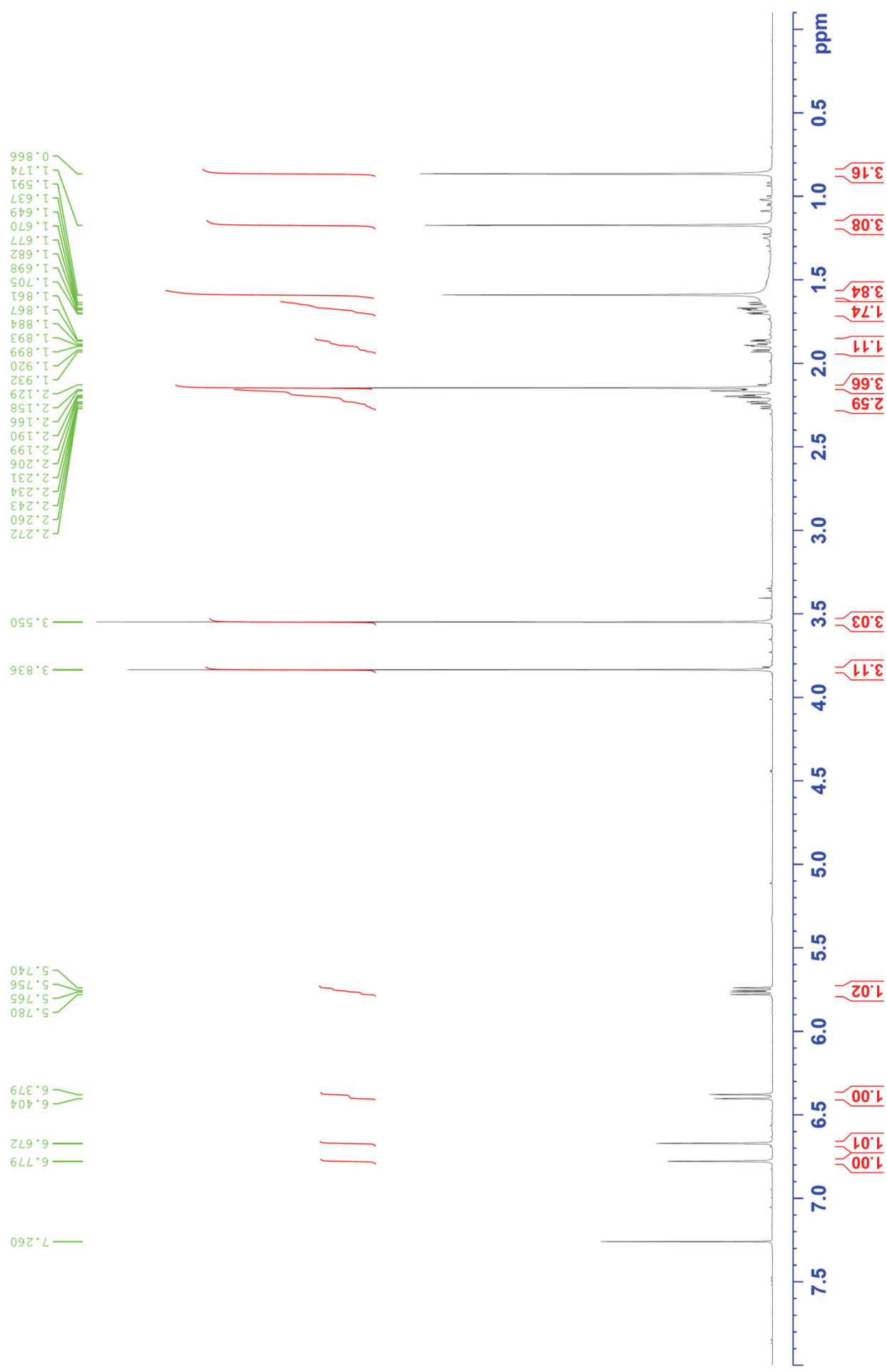


Figure S4-1. ^1H NMR spectrum (400 MHz) of compound **4** in CDCl_3 .

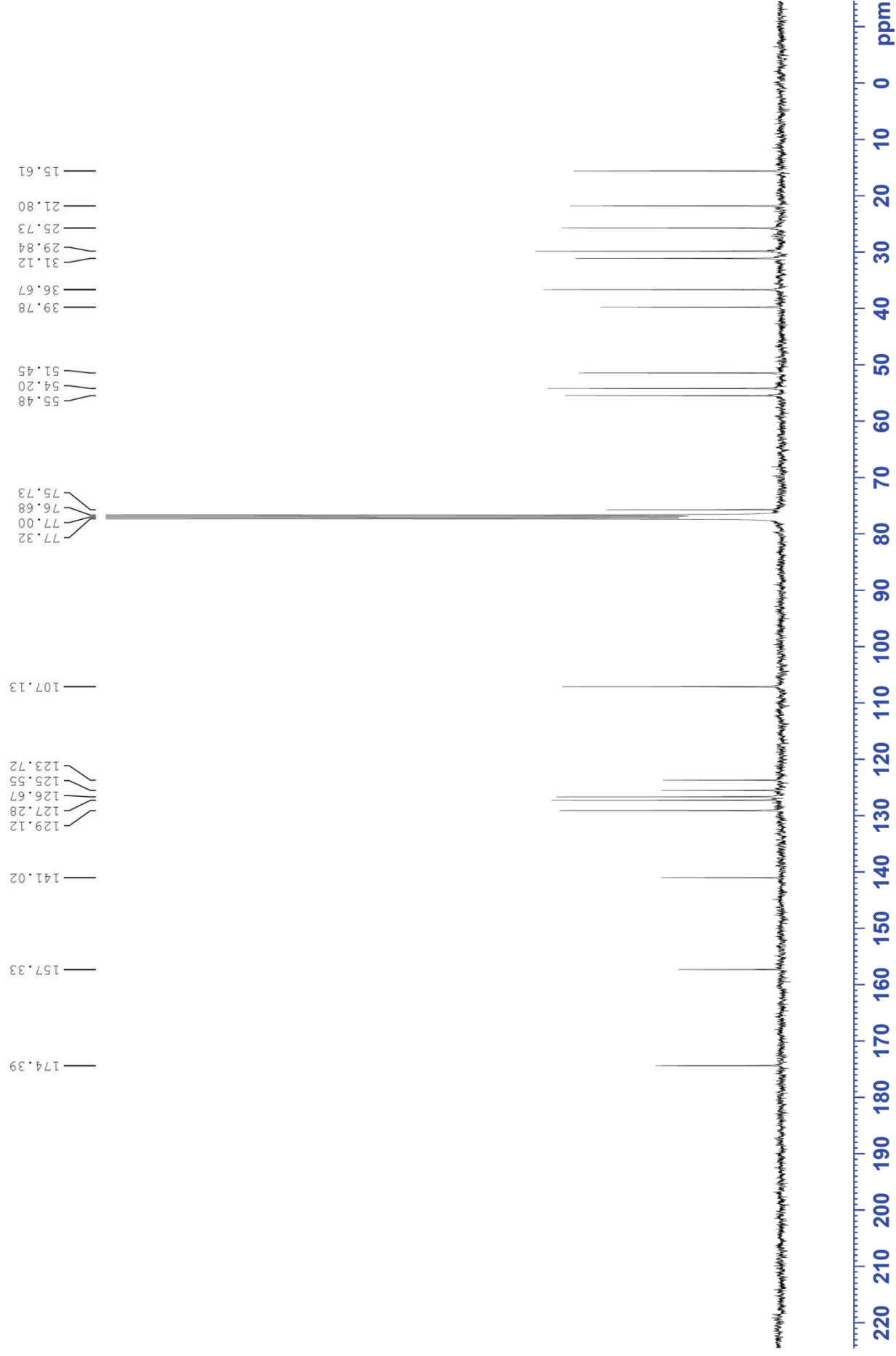


Figure S4-2. ^{13}C NMR spectrum (100 MHz) of compound **4** in CDCl_3 .

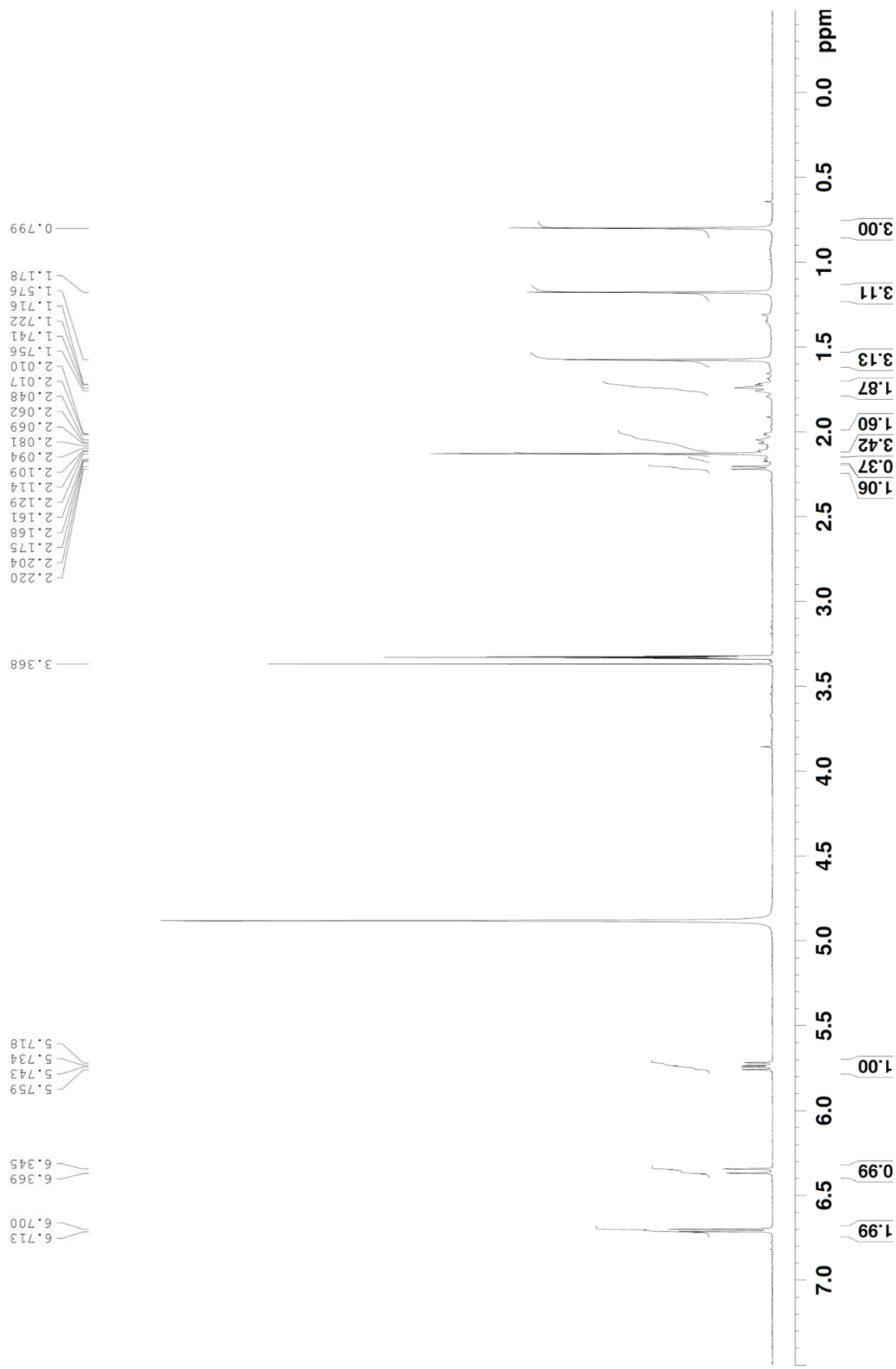


Figure S5-1. ¹H NMR spectrum (400 MHz) of compound **5** in CD₃OD.

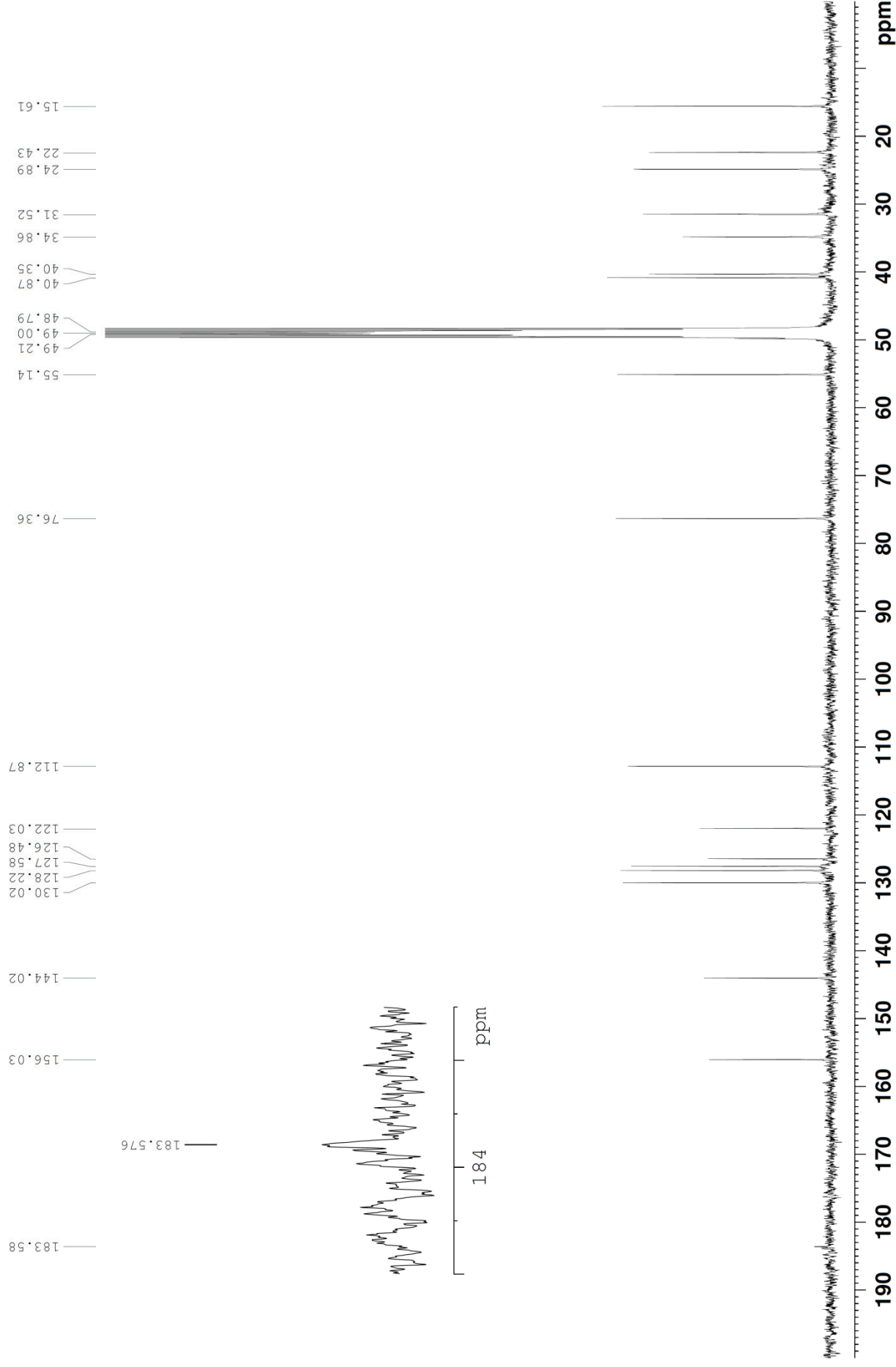


Figure S5-2. ¹³C NMR spectrum (100 MHz) of compound **5** in CD₃OD.

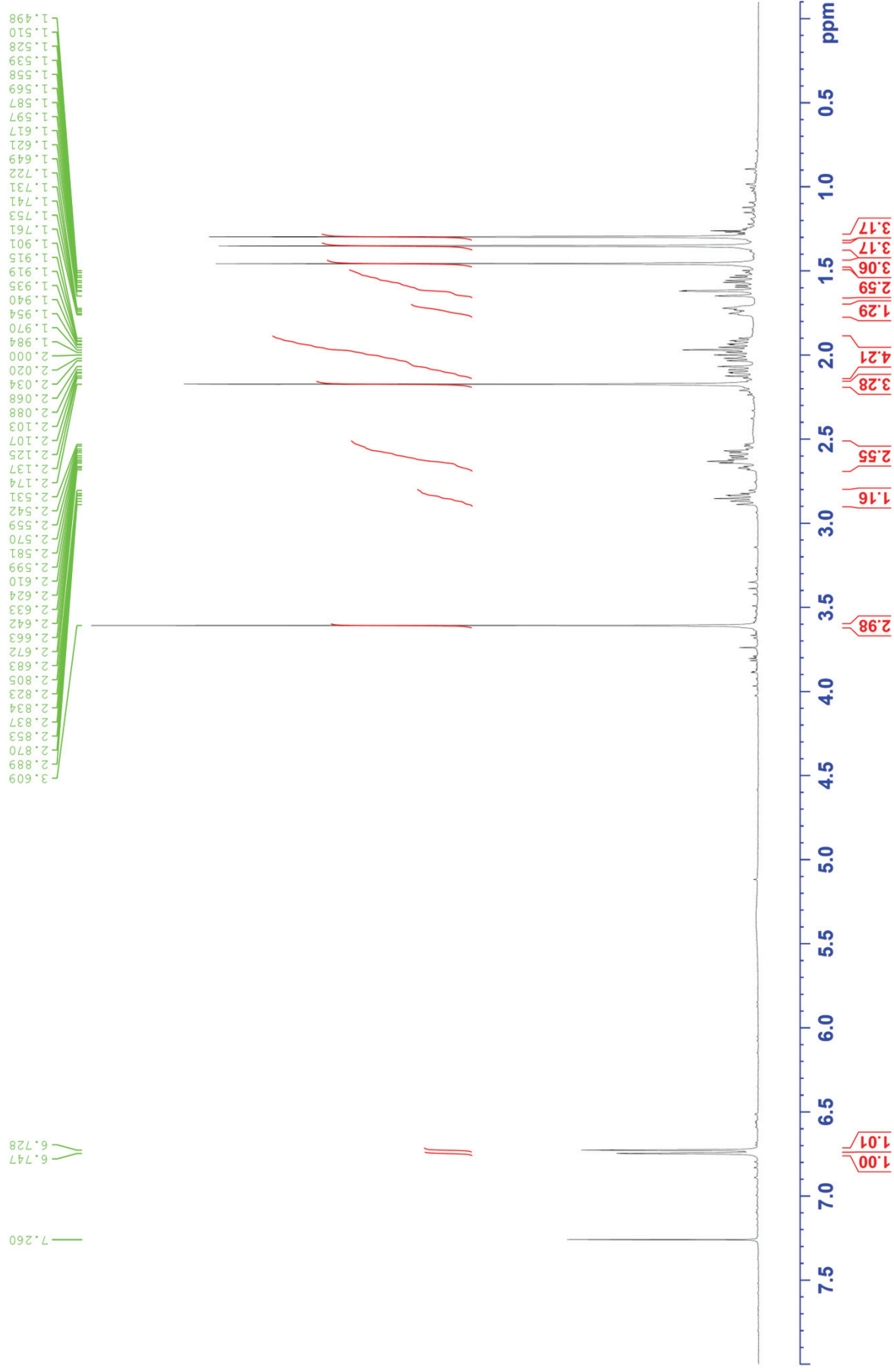


Figure S6-1. ¹H NMR spectrum (400 MHz) of compound **6** in CDCl₃.

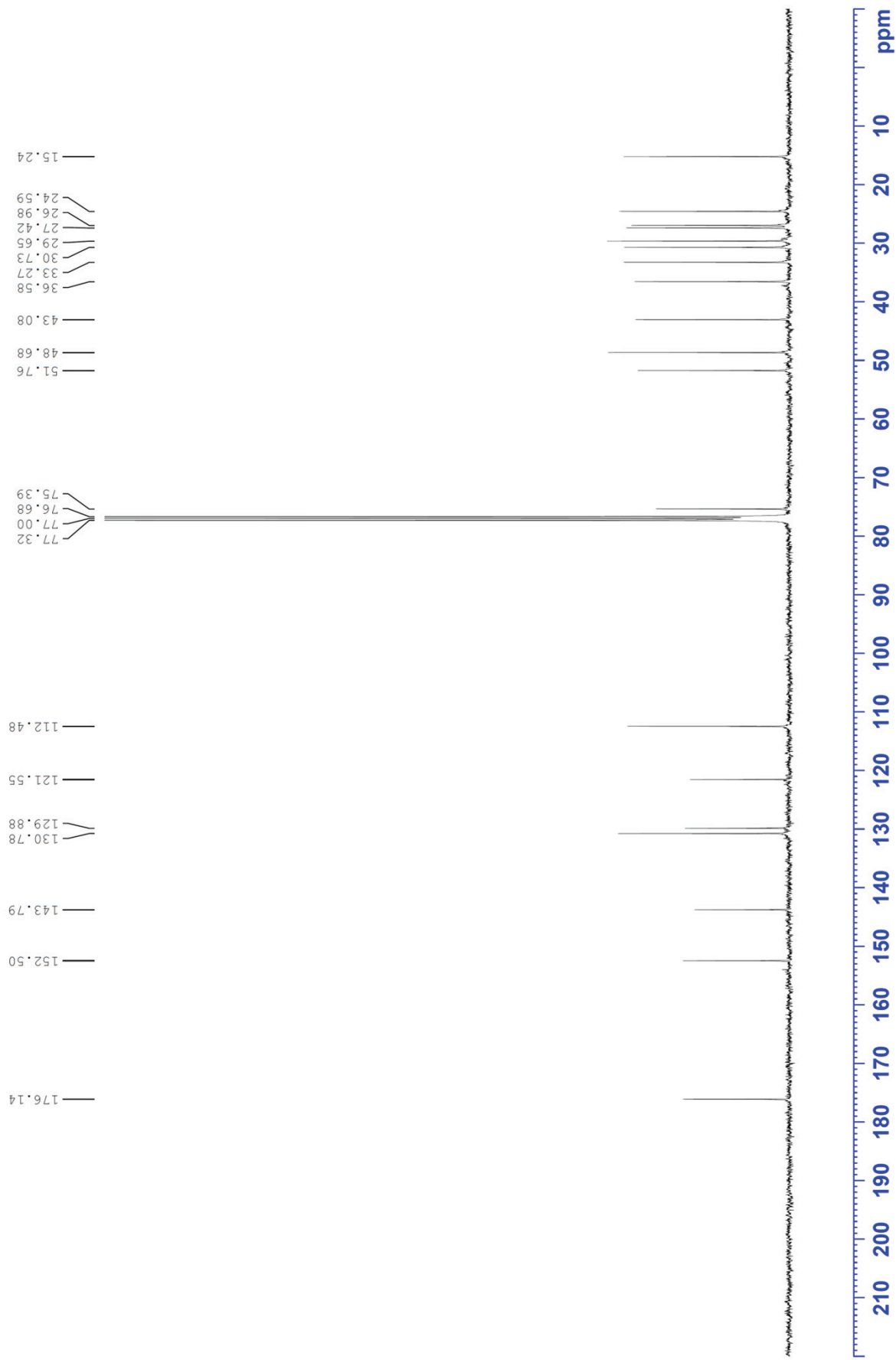


Figure S6-2. ^{13}C NMR spectrum (100 MHz) of compound **6** in CDCl_3 .

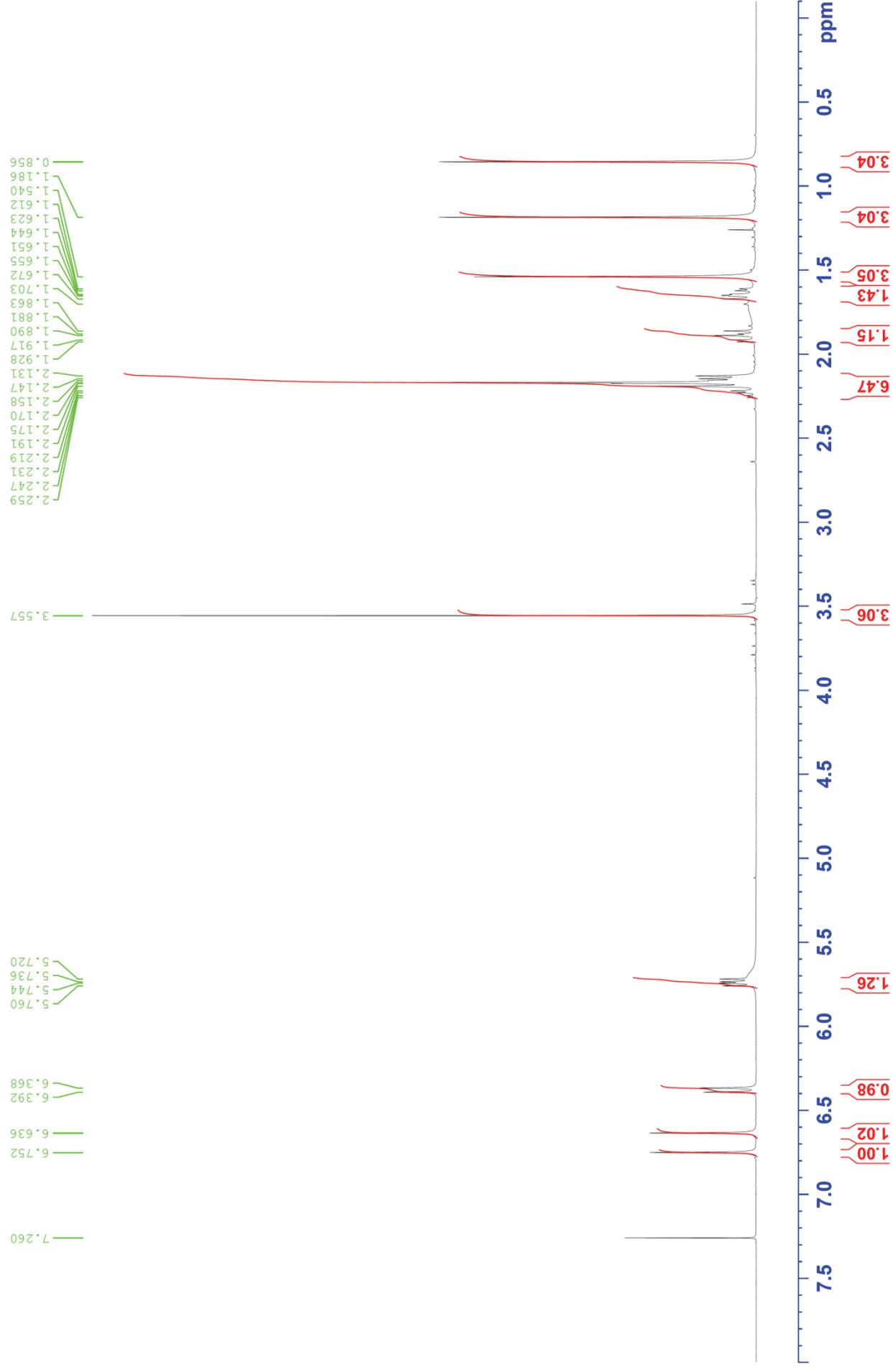


Figure S7-1. ¹H NMR spectrum (400 MHz) of compound **7** in CDCl₃.

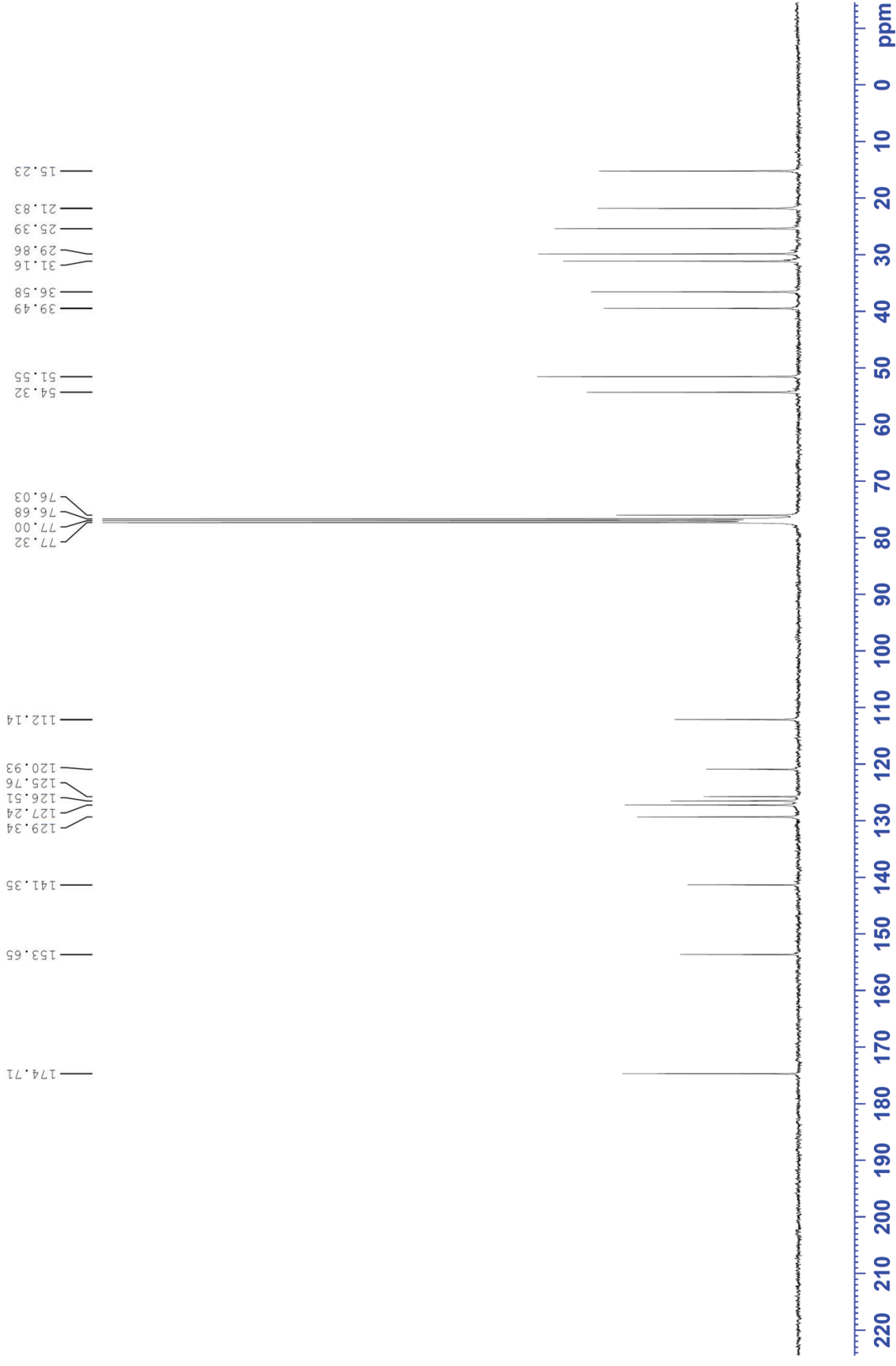


Figure S7-2. ¹³C NMR spectrum (100 MHz) of compound **7** in CDCl₃.

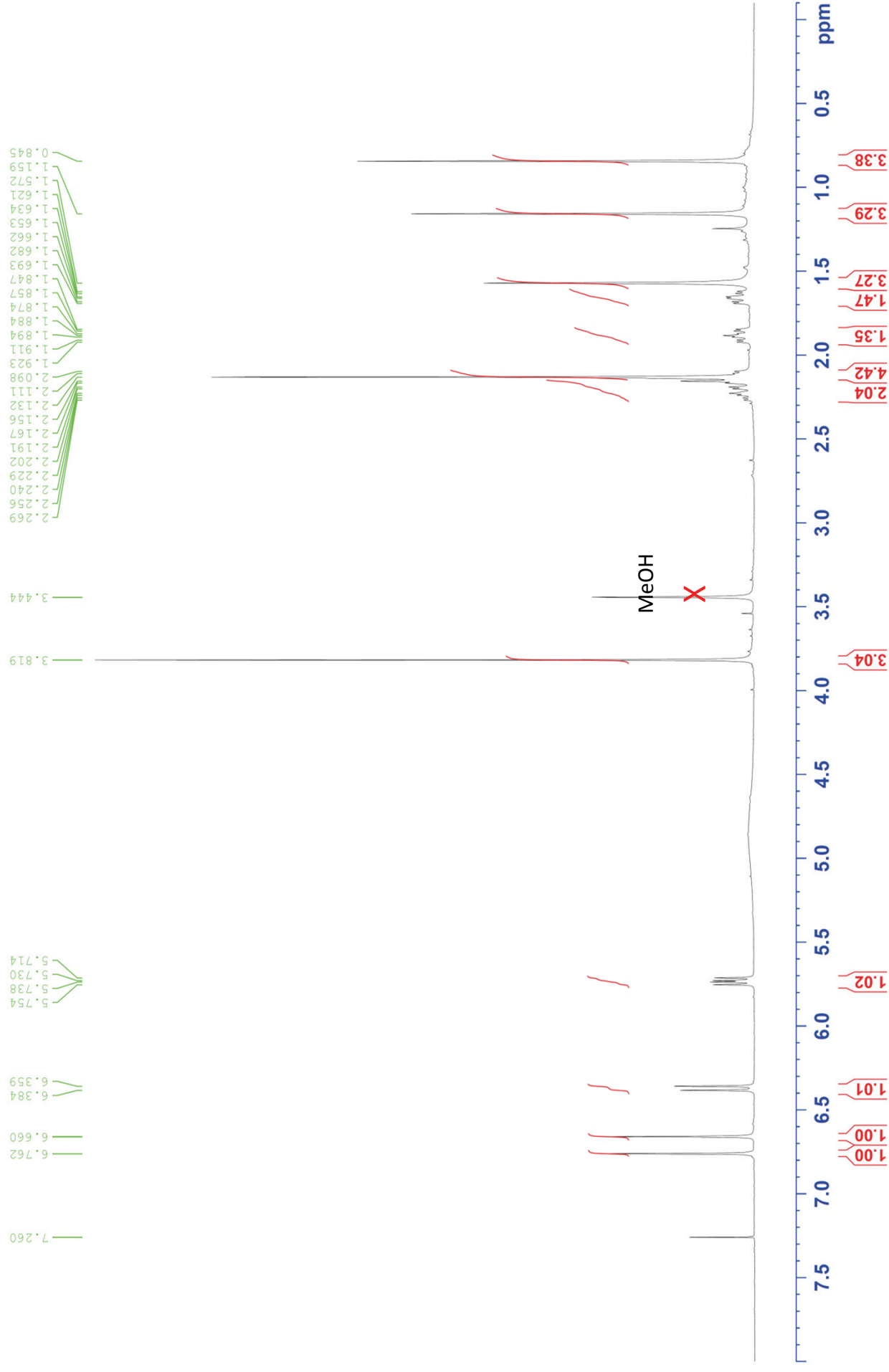


Figure S8-1. ¹H NMR spectrum (400 MHz) of compound **8** in CDCl₃.

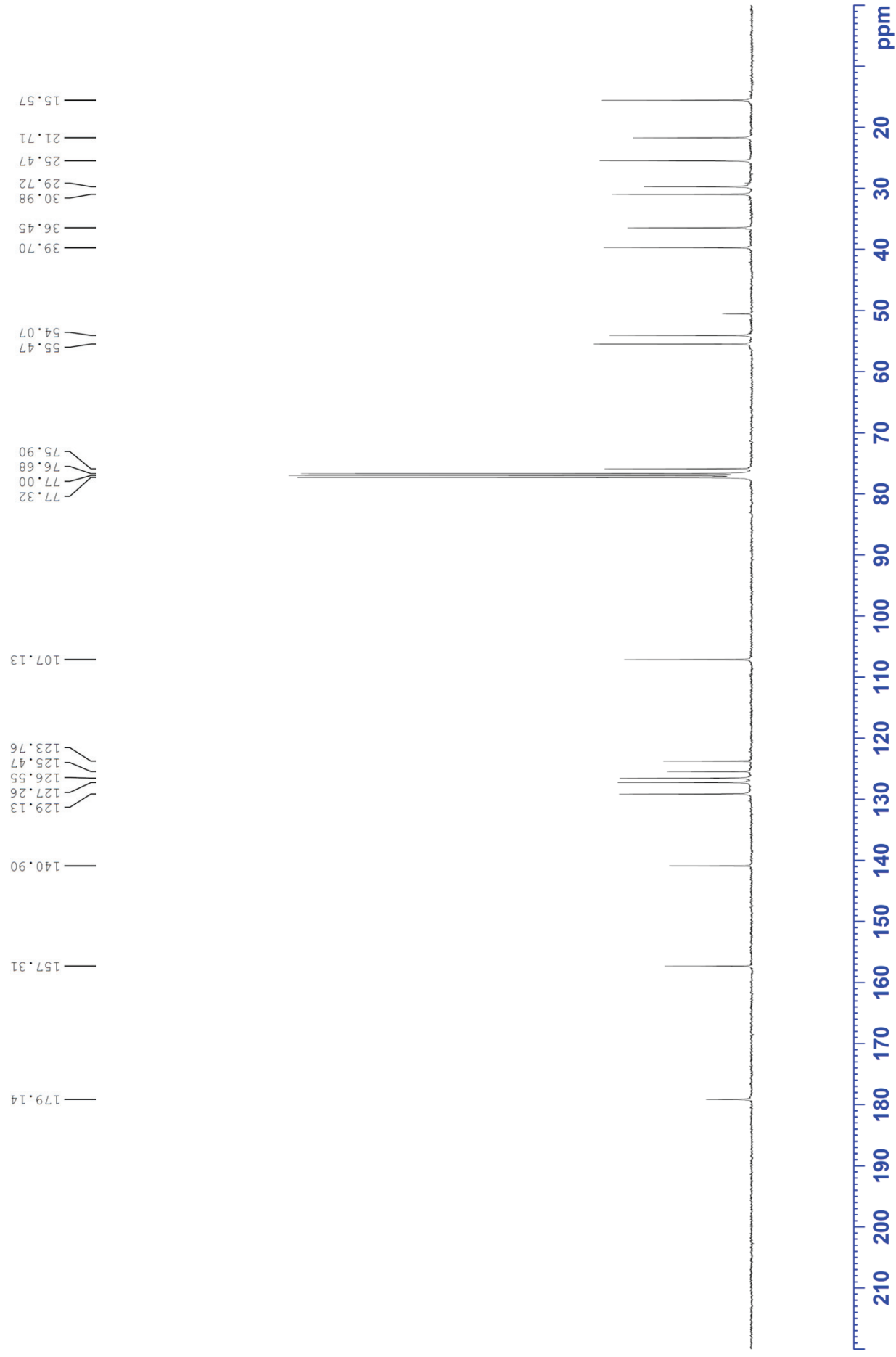


Figure S8-2. ¹³C NMR spectrum (100 MHz) of compound **8** in CDCl₃.

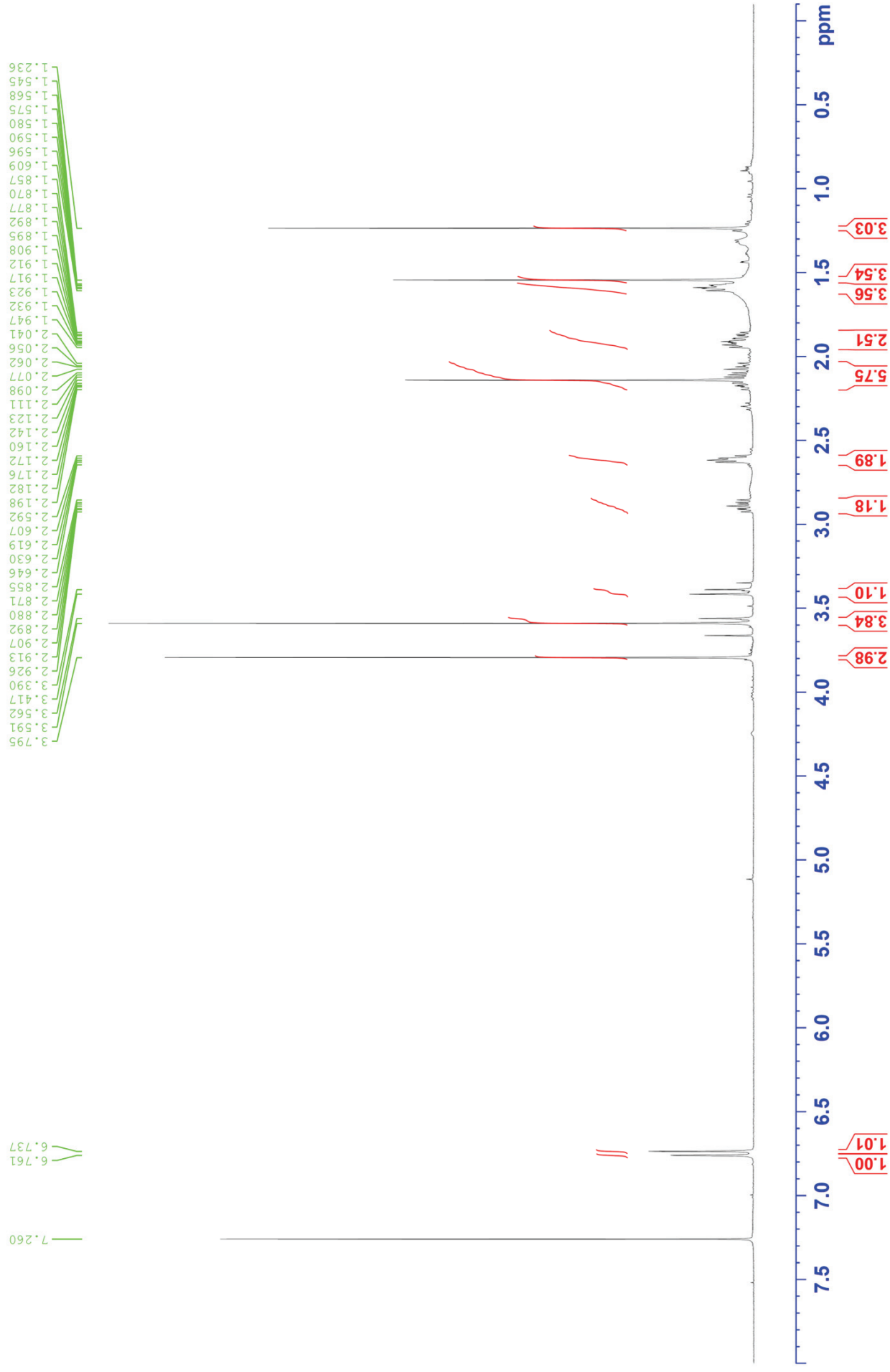


Figure S9-1. ¹H NMR spectrum (400 MHz) of compound **9** in CDCl₃.

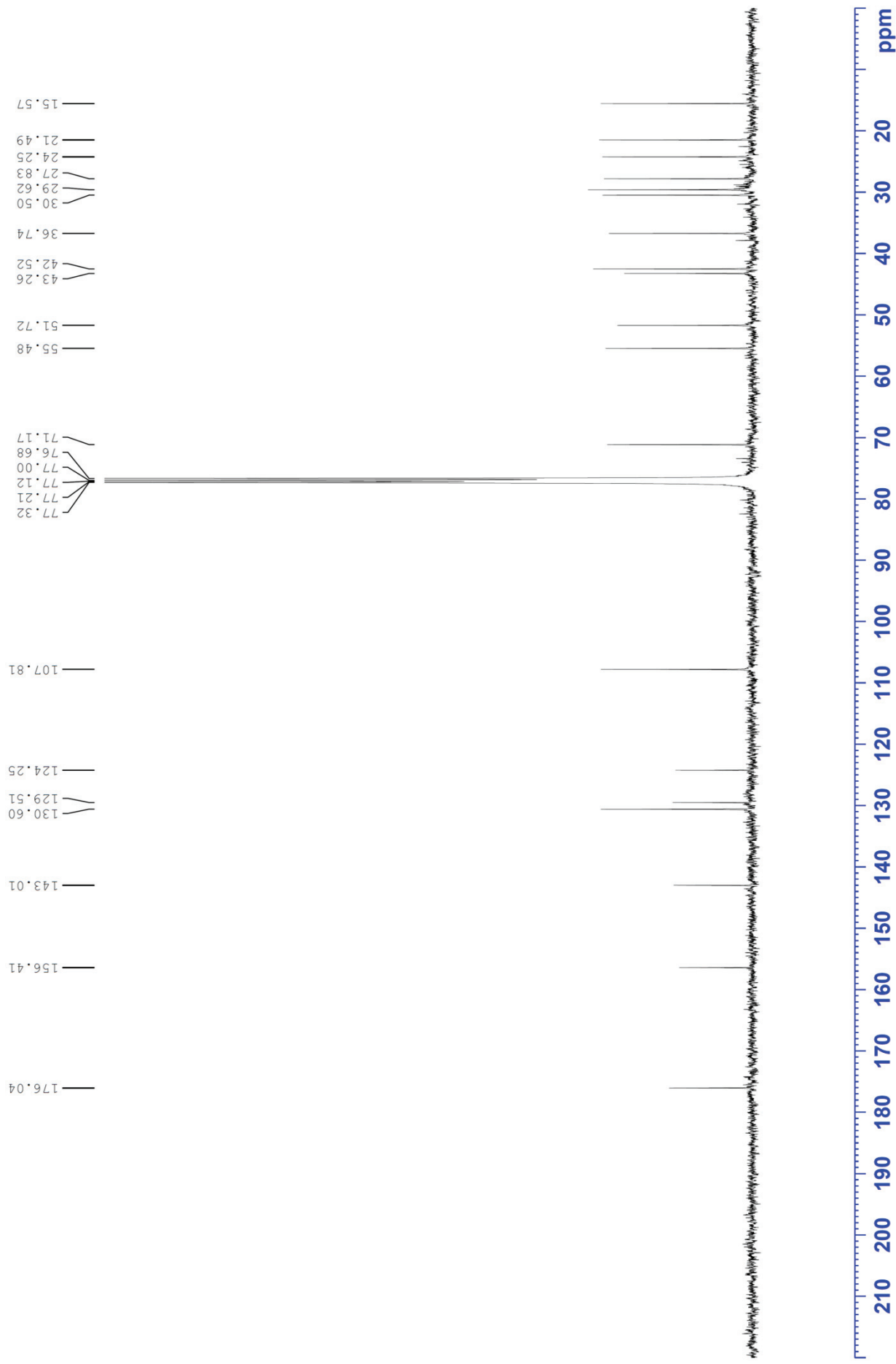


Figure S9-2. ¹³C NMR spectrum (100 MHz) of compound **9** in CDCl₃.

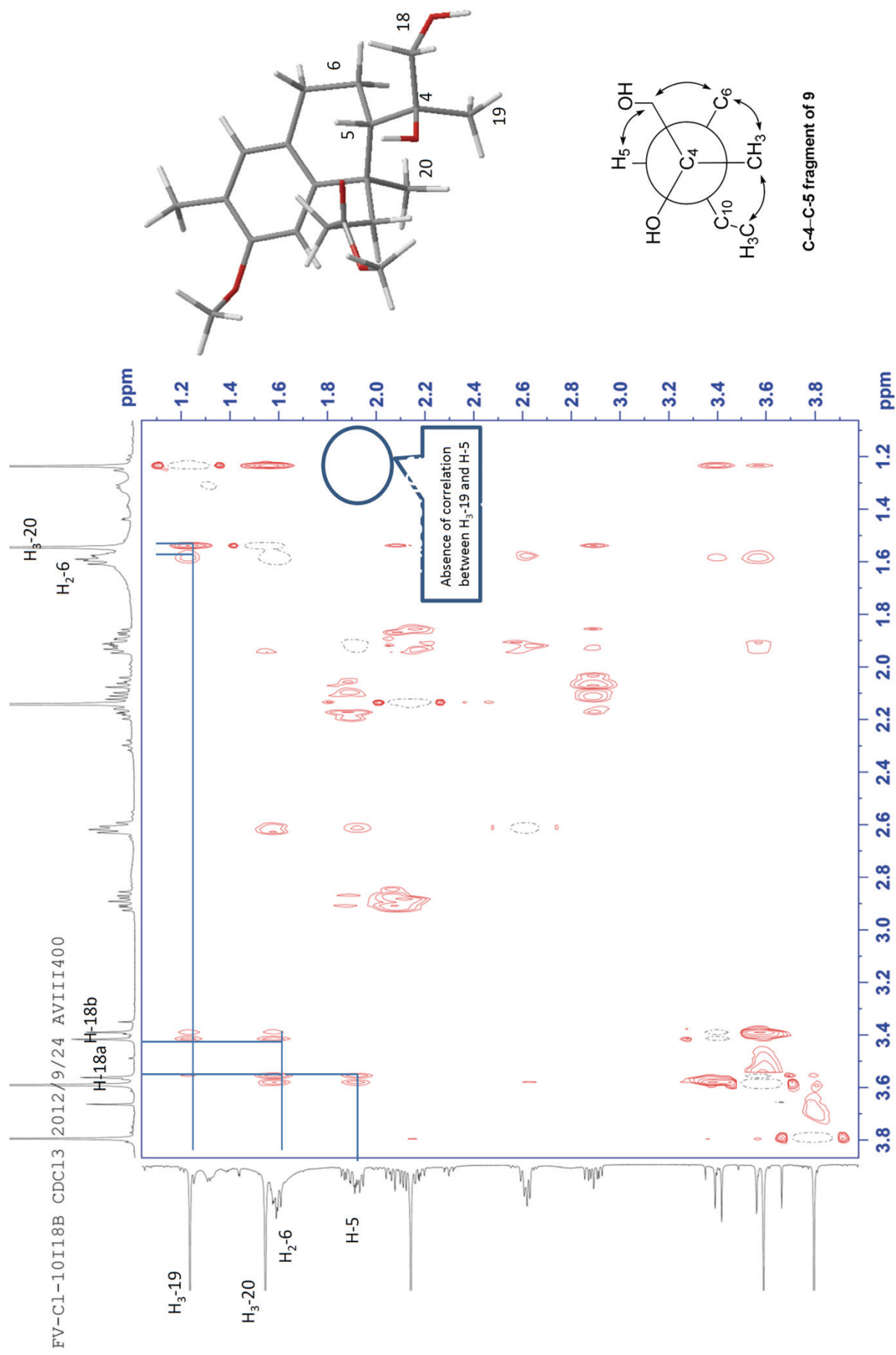


Figure S9-3. Partial NOE spectrum of **9**.

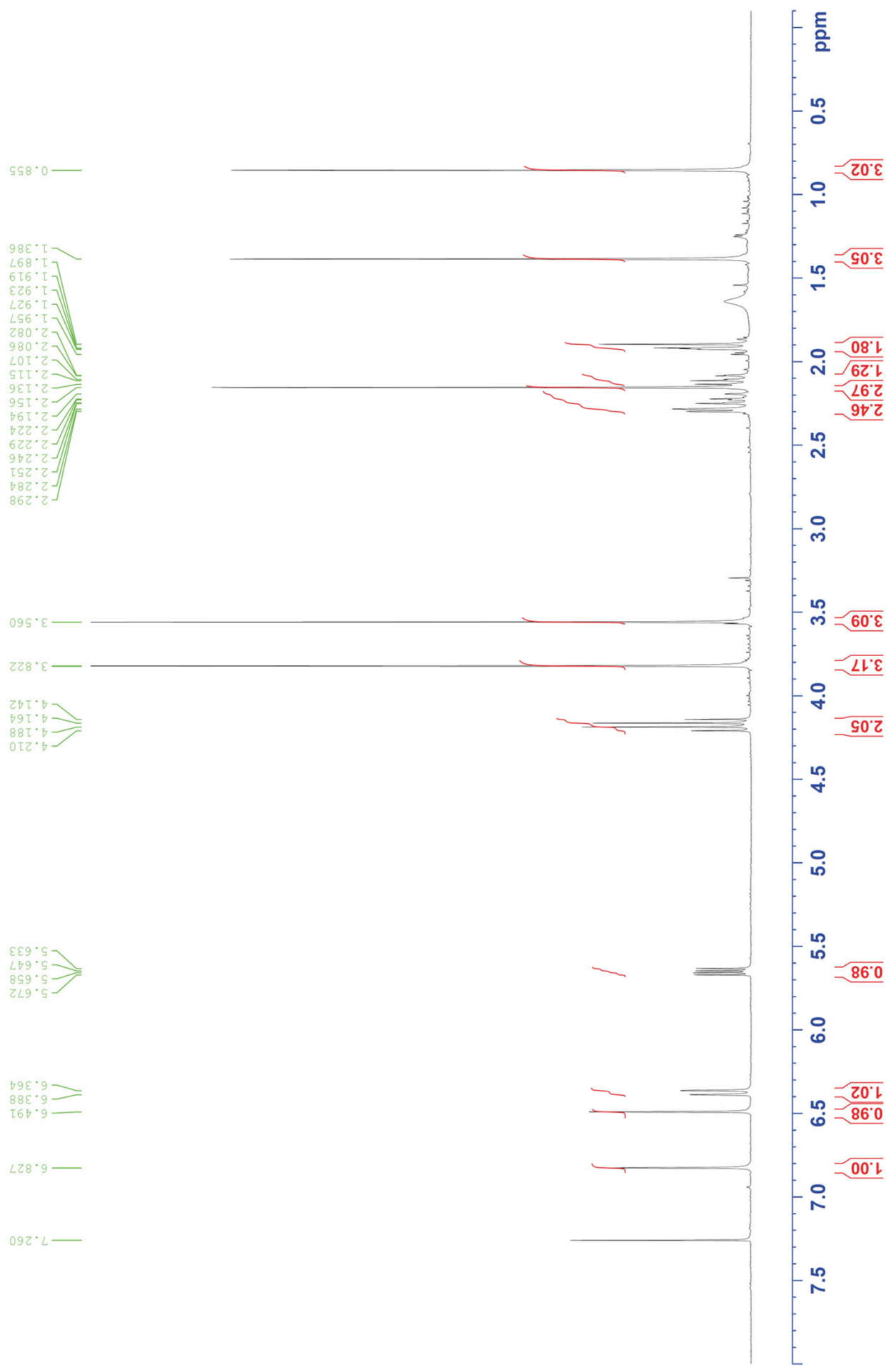


Figure S10-1. ¹H NMR spectrum (400 MHz) of compound **10** in CDCl₃.

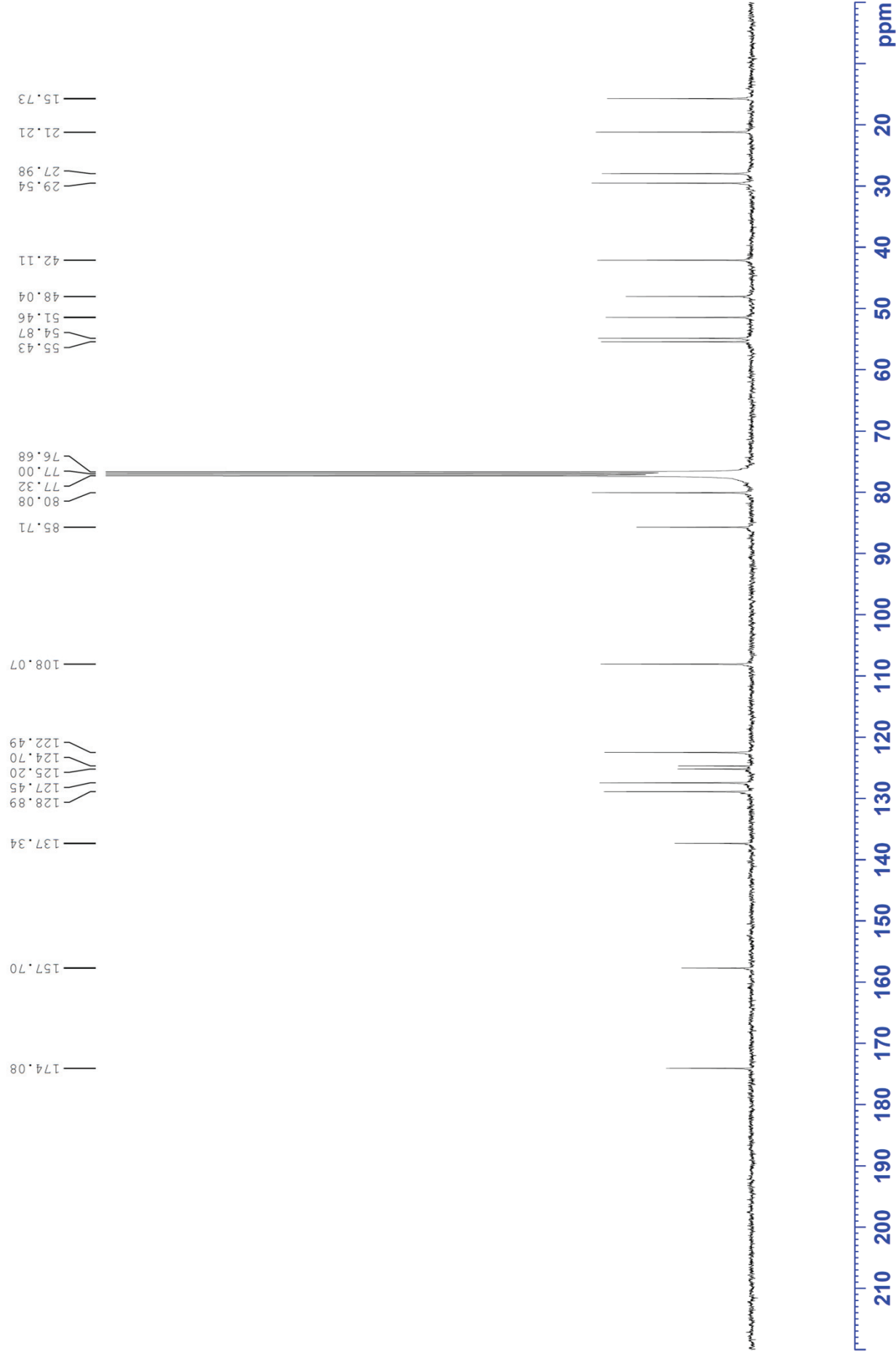


Figure S10-2. ¹³C NMR spectrum (100 MHz) of compound **10** in CDCl₃.

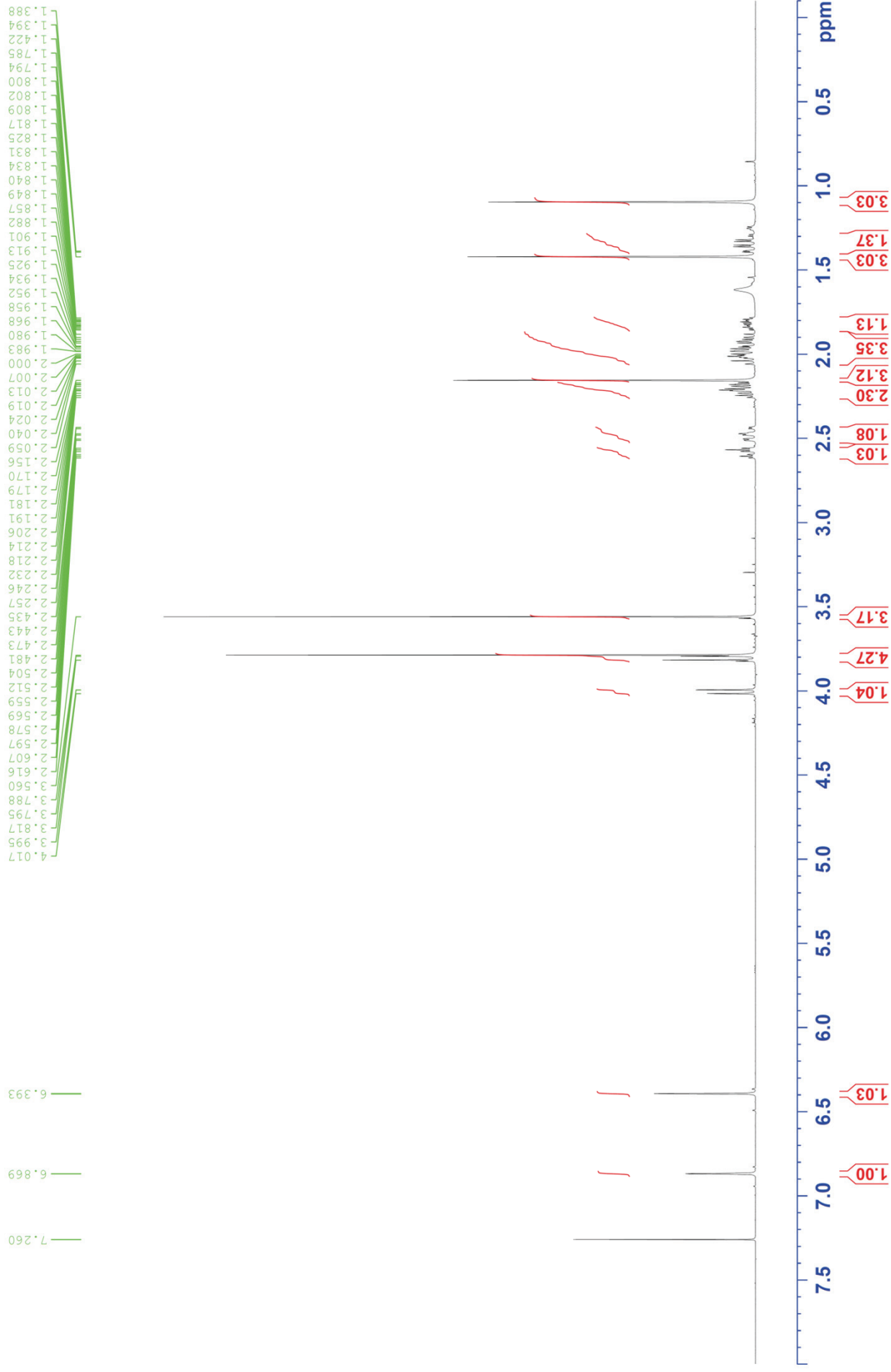


Figure S11-1. ¹H NMR spectrum (400 MHz) of compound **11** in CDCl₃.

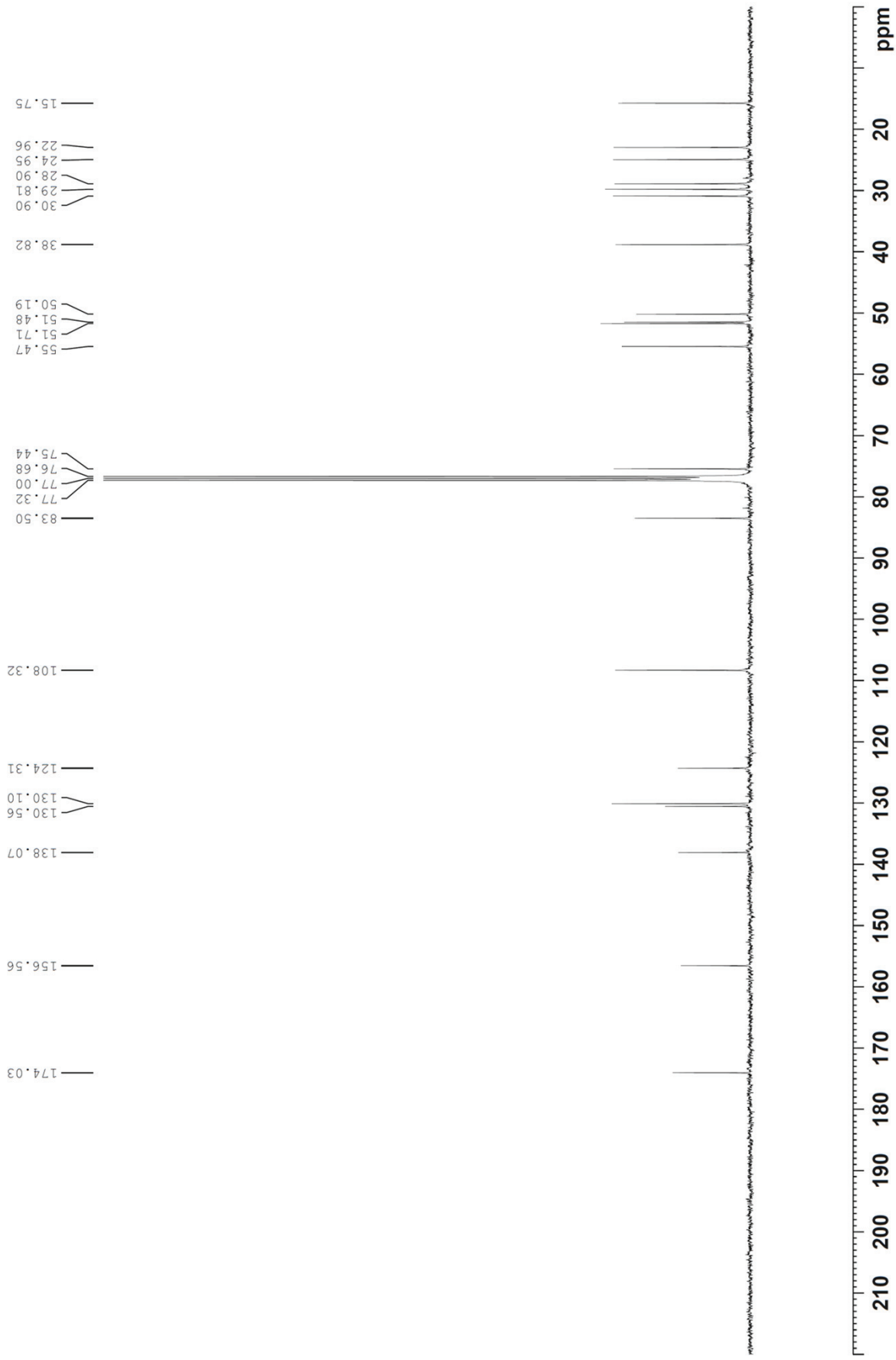


Figure S11-2. ¹³C NMR spectrum (100 MHz) of compound **11** in CDCl₃.

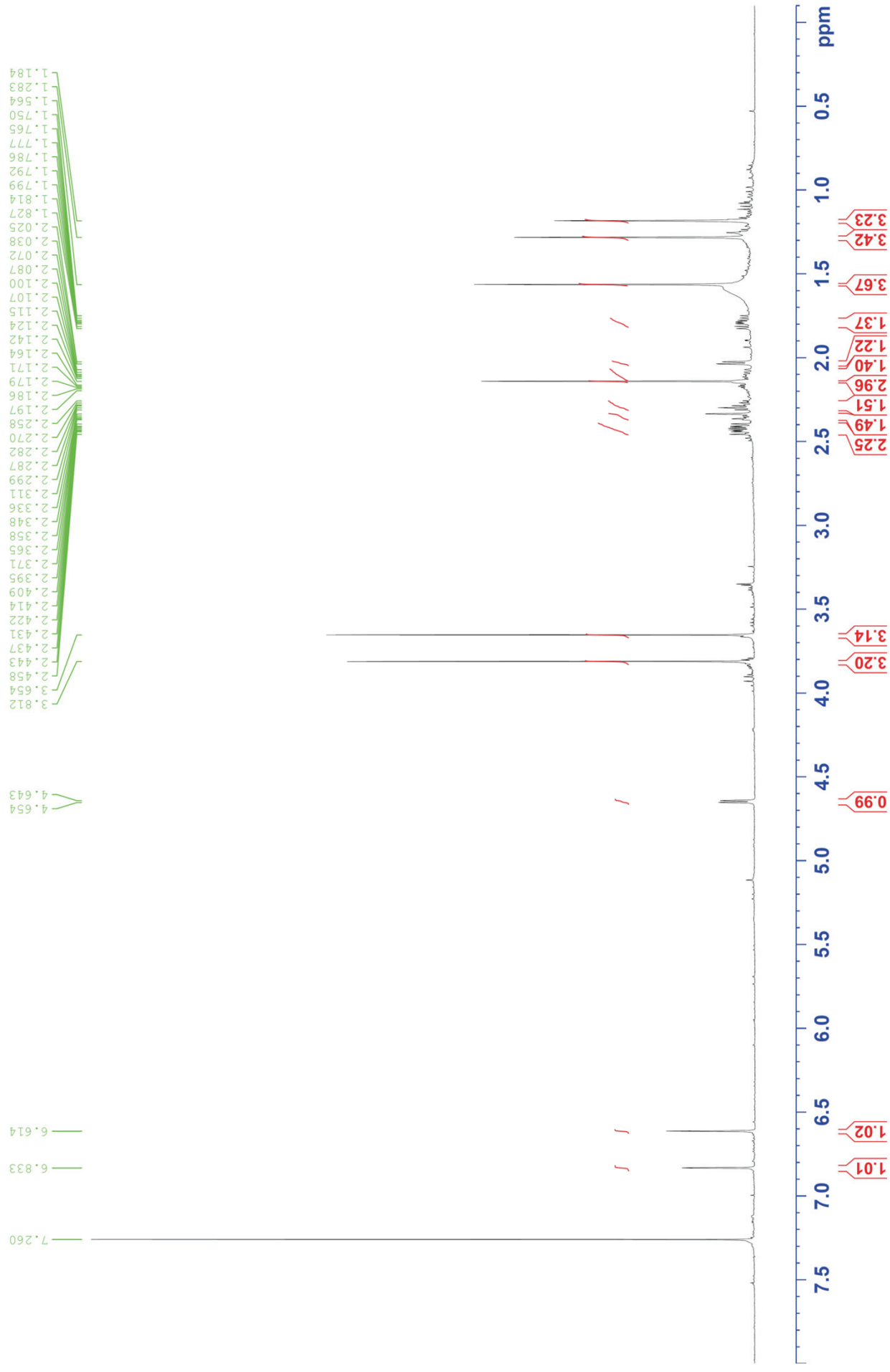


Figure S12-1. ^1H NMR spectrum (400 MHz) of compound **12** in CDCl_3 .

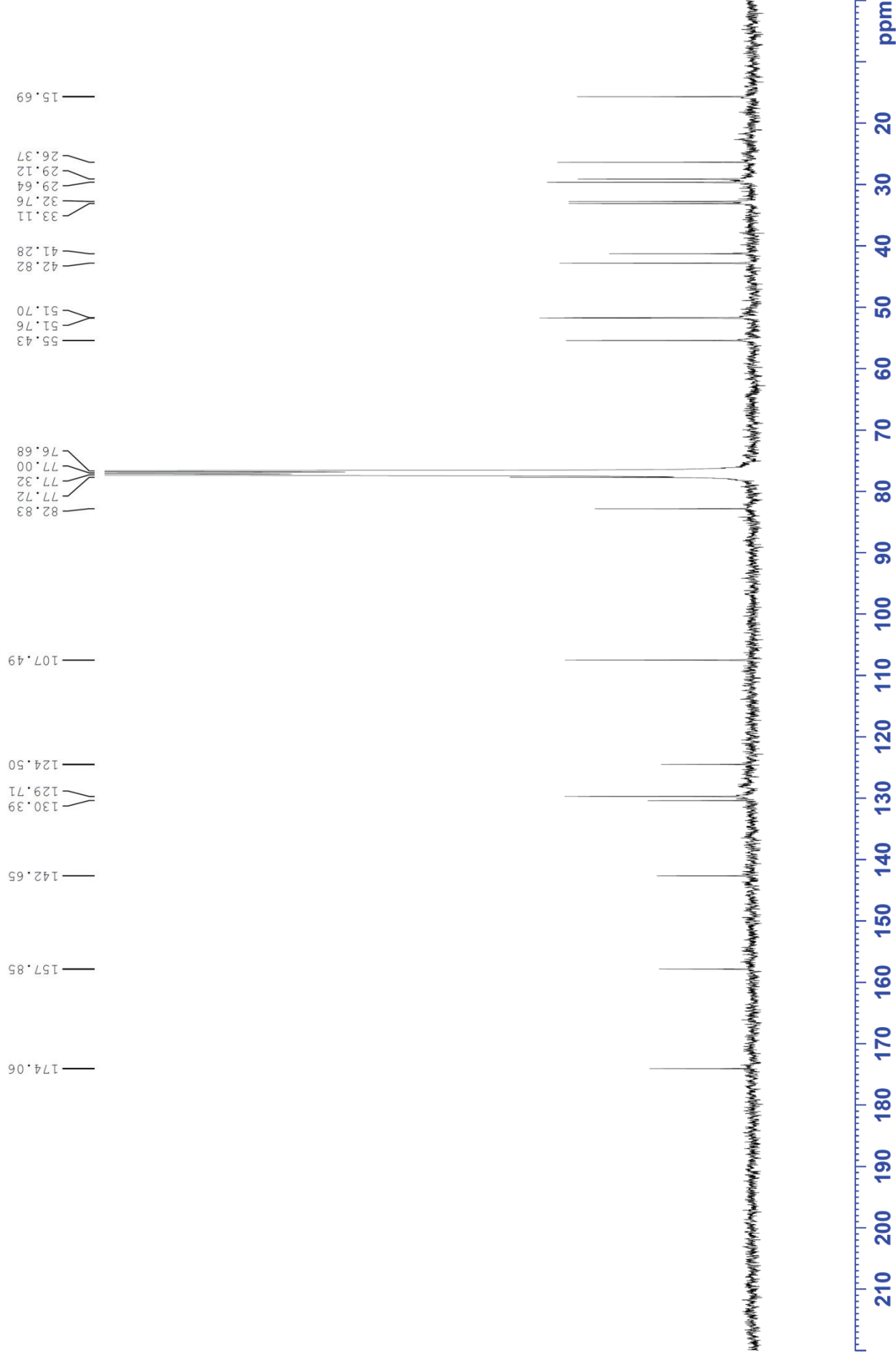


Figure S12-2. ¹³C NMR spectrum (100 MHz) of compound **12** in CDCl₃.

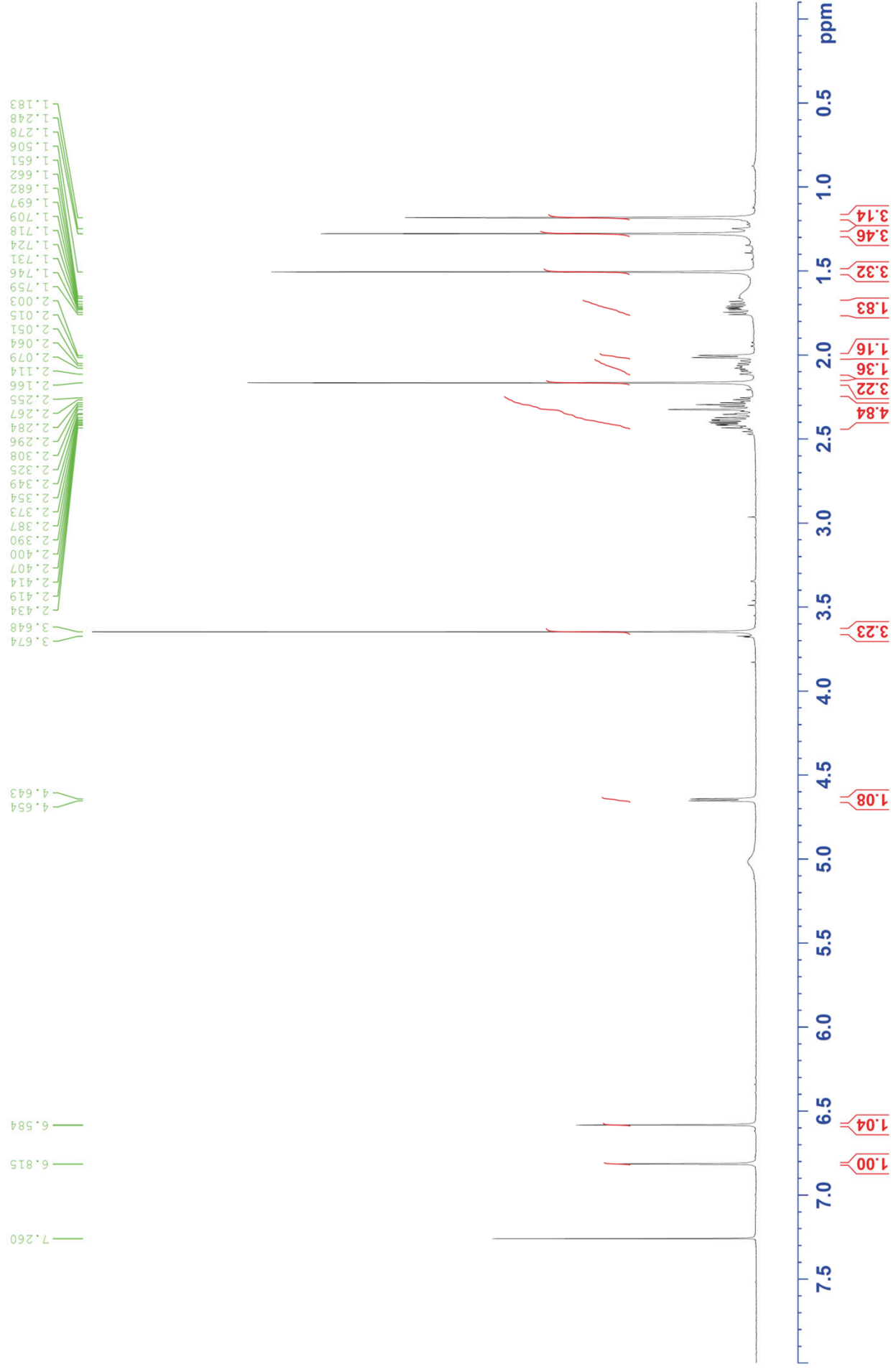


Figure S13-1. ^1H NMR spectrum (400 MHz) of compound **13** in CDCl_3 .

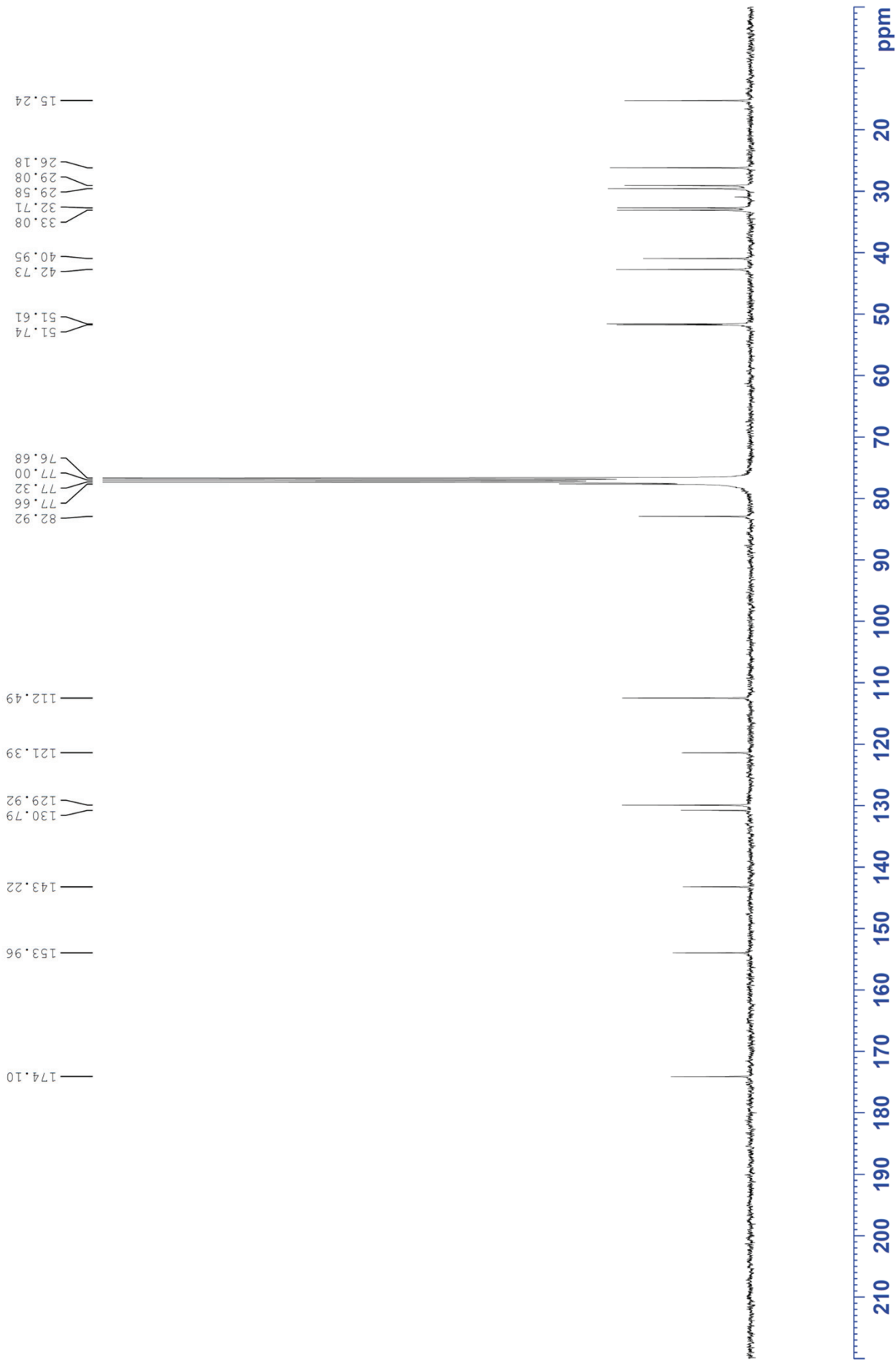


Figure S13-2. ¹³C NMR spectrum (100 MHz) of compound **13** in CDCl₃.

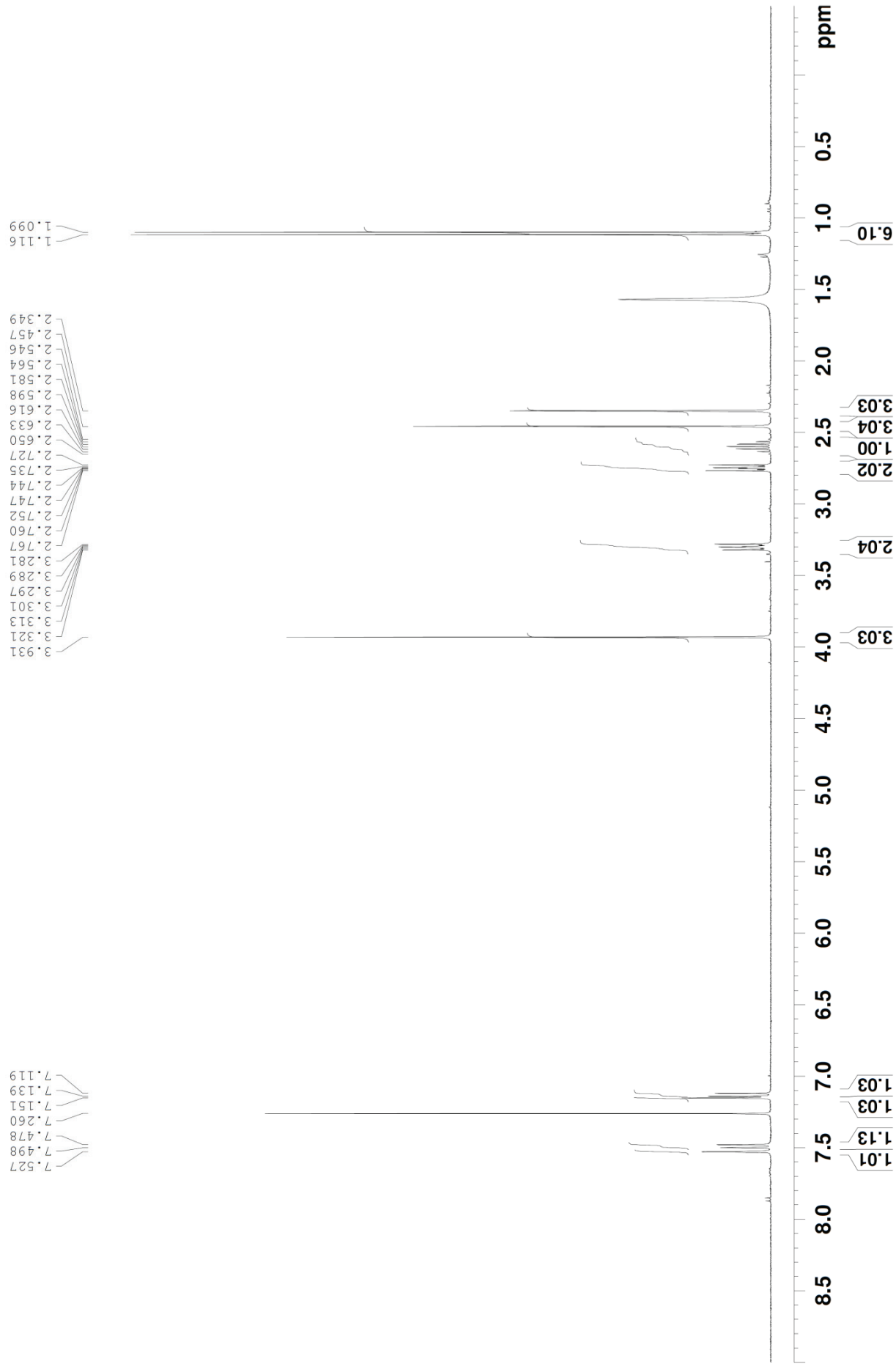


Figure S14-1. ¹H NMR spectrum (400 MHz) of compound **14** in CDCl₃.

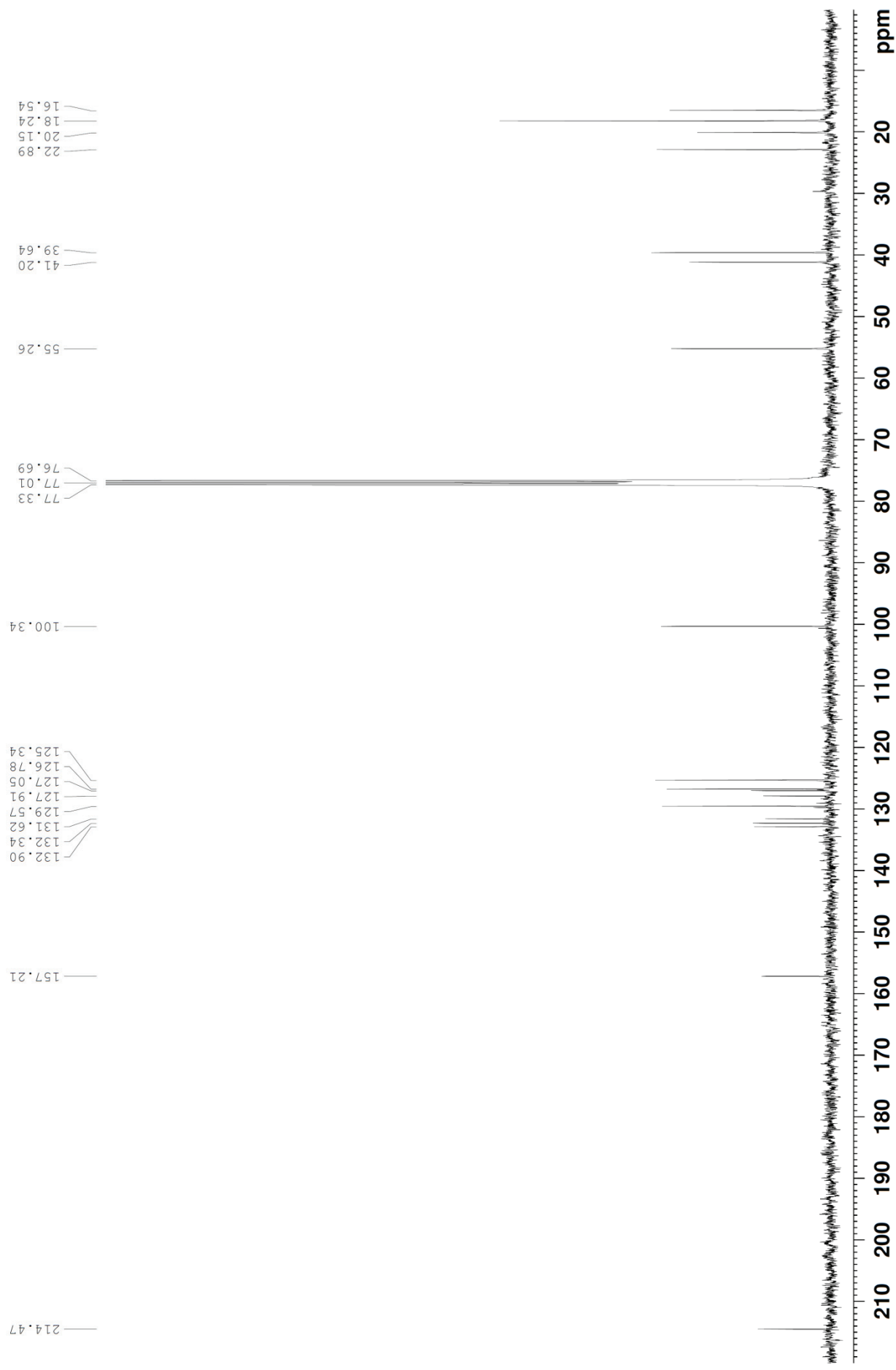
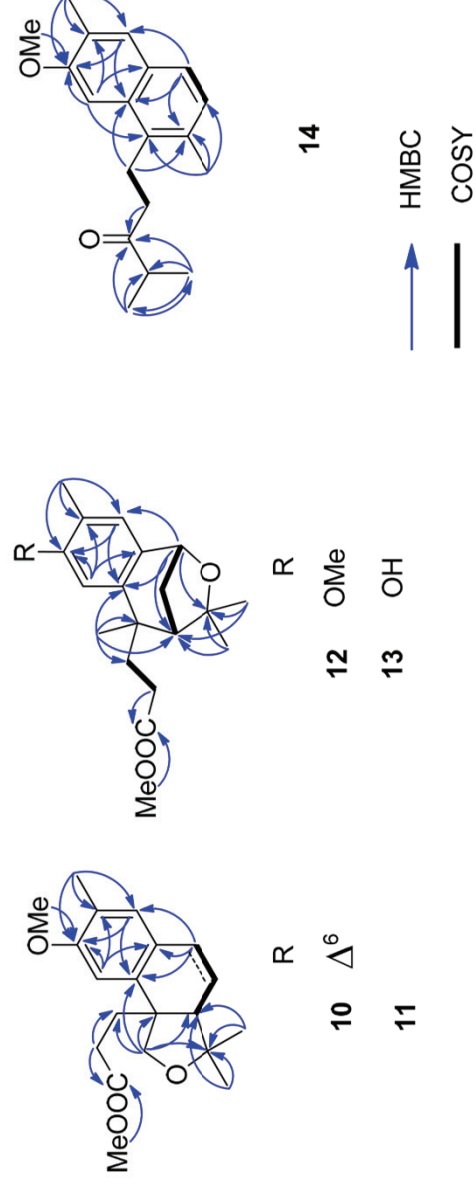
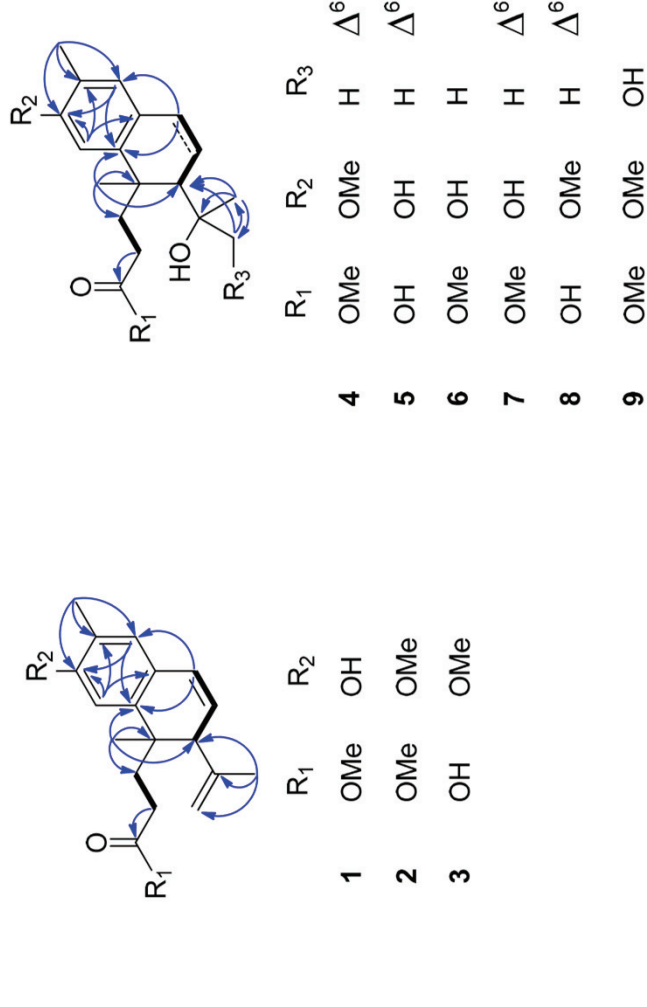


Figure S14-2. ¹³C NMR spectrum (100 MHz) of compound **14** in CDCl₃.



The OMe group showed an HMBC correlation to the respective carbonyl or phenyl carbon

Figure S15-1. Selected HMBC correlations of 1-14.