

Limonoids and Sesquiterpenoids from *Amoora tsangii*

Hua-dong Chen, Sheng-ping Yang, Shang-gao Liao, Bo Zhang, Yan Wu and
Jian-Min Yue*

State Key Laboratory of Drug Research, Shanghai Institute of Materia Medica, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, 555 Zu Chong Zhi Road, Zhangjiang Hi-Tech Park, Shanghai, 201203, P. R. China

Supporting information

- S3. Selected HMBC correlations (H→C) of amotsangin B (**2**) and amotsangin C (**3**).
- S4. Selected HMBC correlations (H→C) of amotsangin D (**4**) and amotsangin E (**5**).
- Figure S5. The HPLC-ESIMS (p1-2) monitor of the crude product transformed from compound **6**.
- Figure S6. The HPLC-ESIMS (p3-4) monitor of the crude product transformed from compound **6**.
- Figure S7. The HPLC-ESIMS monitor of the purified product transformed from compound **6**.
- Figure S8. Co-injection of the purified product transformed from **6** with compound **5**.
- Figure S9. The HPLC-ESIMS of compound **5**.
- Figure S10. ^1H NMR spectrum of amotsangin A (**1**) in CDCl_3 .
- Figure S11. ^{13}C NMR spectrum of amotsangin A (**1**) in CDCl_3 .
- Figure S12. HSQC spectrum of amotsangin A (**1**) in CDCl_3 .
- Figure S13. HMBC spectrum of amotsangin A (**1**) in CDCl_3 .
- Figure S14. ROESY spectrum of amotsangin A (**1**) in CDCl_3 .
- Figure S15. EIMS spectrum of amotsangin A (**1**).
- Figure S16. IR spectrum of amotsangin A (**1**).
- Figure S17. ^1H NMR spectrum of amotsangin B (**2**) in CDCl_3 .
- Figure S18. ^{13}C NMR spectrum of amotsangin B (**2**) in CDCl_3 .

* Corresponding author. Tel.: +86-21-50806718, Fax: +86-21-50806718, E-mail: jmyue@mail.shcnc.ac.cn

Figure S19. HMBC spectrum of amotsangin B (**2**) in CDCl₃.

Figure S20. EIMS spectrum of amotsangin B (**2**).

Figure S21. IR spectrum of amotsangin B (**2**).

Figure S22. ¹H NMR spectrum of amotsangin C (**3**) in CDCl₃.

Figure S23. ¹³C NMR spectrum of amotsangin C (**3**) in CDCl₃.

Figure S24. HMBC spectrum of amotsangin C (**3**) in CDCl₃.

Figure S25. EIMS spectrum of amotsangin C (**3**).

Figure S26. IR spectrum of amotsangin C (**3**).

Figure S27. ¹H NMR spectrum of amotsangin D (**4**) in CDCl₃.

Figure S28. ¹³C NMR spectrum of amotsangin D (**4**) in CDCl₃.

Figure S29. HMBC spectrum of amotsangin D (**4**) in CDCl₃.

Figure S30. EIMS spectrum of amotsangin D (**4**).

Figure S31. IR spectrum of amotsangin D (**4**).

Figure S32. ¹H NMR spectrum of amotsangin E (**5**) in CDCl₃.

Figure S33. ¹³C NMR spectrum of amotsangin E (**5**) in CDCl₃.

Figure S34. HMBC spectrum of amotsangin E (**5**) in CDCl₃.

Figure S35. EIMS spectrum of amotsangin E (**5**).

Figure S36. IR spectrum of amotsangin E (**5**).

Figure S37. ¹H NMR spectrum of amotsangin F (**6**) in CDCl₃.

Figure S38. ¹³C NMR spectrum of amotsangin F (**6**) in CDCl₃.

Figure S39. EIMS spectrum of amotsangin F (**6**).

Figure S40. IR spectrum of amotsangin F (**6**).

Figure S41. ¹H NMR spectrum of amotsangin G (**7**) in CDCl₃.

Figure S42. ¹³C NMR spectrum of amotsangin G (**7**) in CDCl₃.

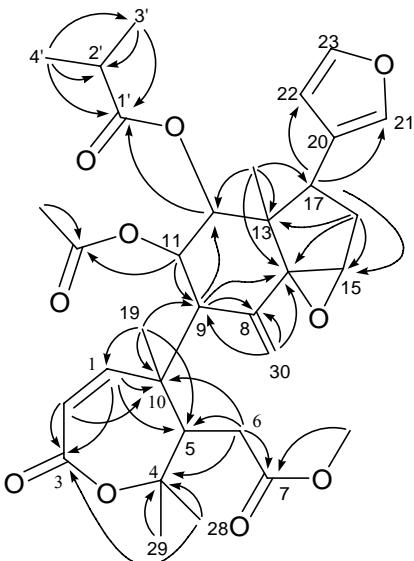
Figure S43. HSQC spectrum of amotsangin G (**7**) in CDCl₃.

Figure S44. HMBC spectrum of amotsangin G (**7**) in CDCl₃.

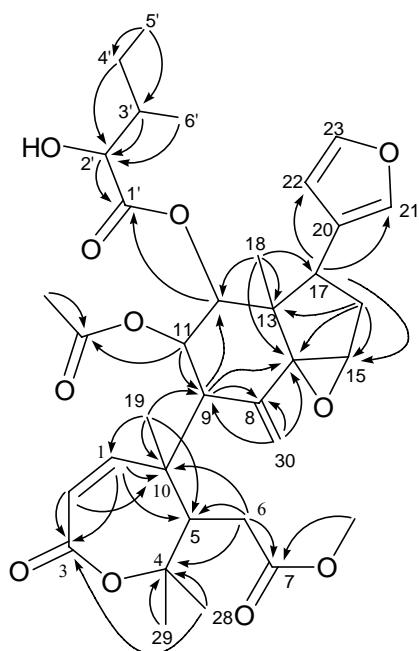
Figure S45. ROESY spectrum of amotsangin G (**7**) in CDCl₃.

Figure S46. EIMS spectrum of amotsangin G (**7**).

Figure S47. IR spectrum of amotsangin G (**7**).



Selected HMBC correlations (H→C) of amotsangin B (2).



Selected HMBC correlations (H→C) of amotsangin C (3).

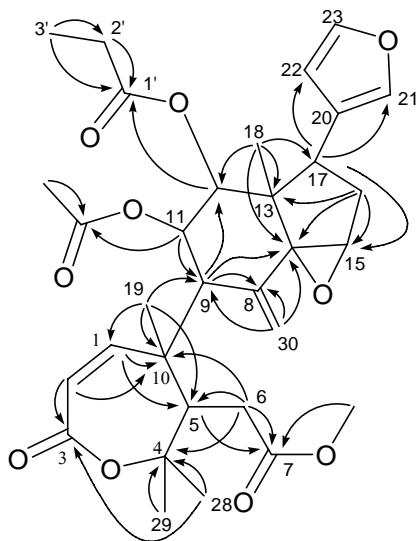


Figure S3. Selected HMBC correlations ($\text{H} \rightarrow \text{C}$) of amotsangin D (**4**).

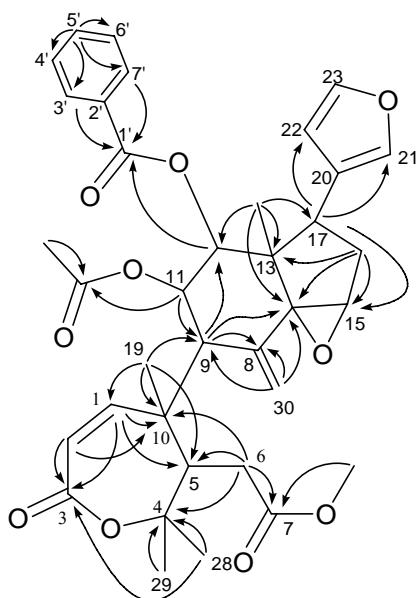
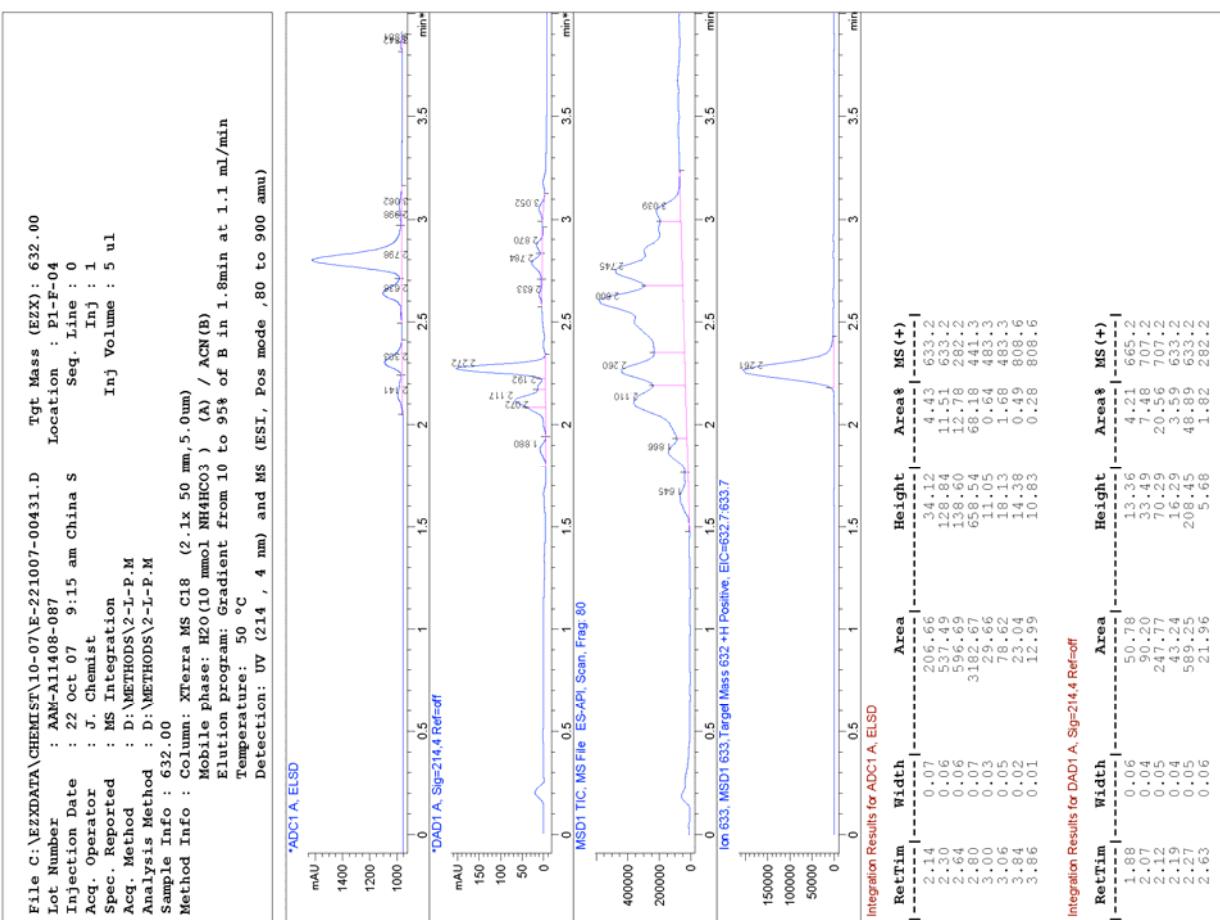
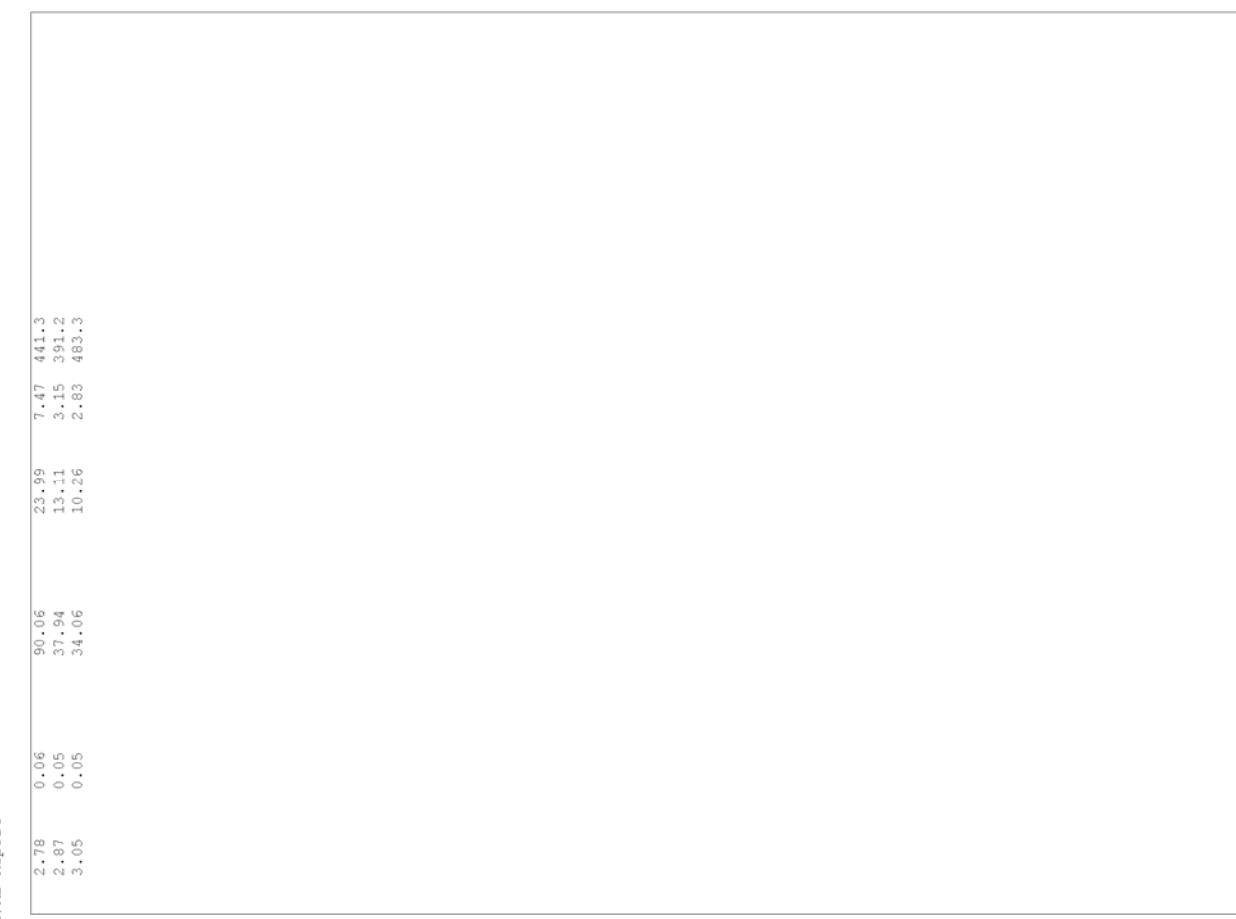


Figure S4. Selected HMBC correlations ($\text{H} \rightarrow \text{C}$) of amotsangin E (5).

The HPLC-MS (p1-2) monitor of the crude product transformed from compound **6**

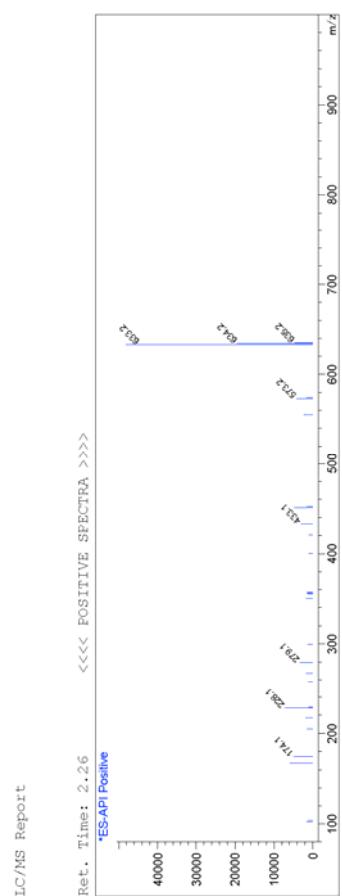
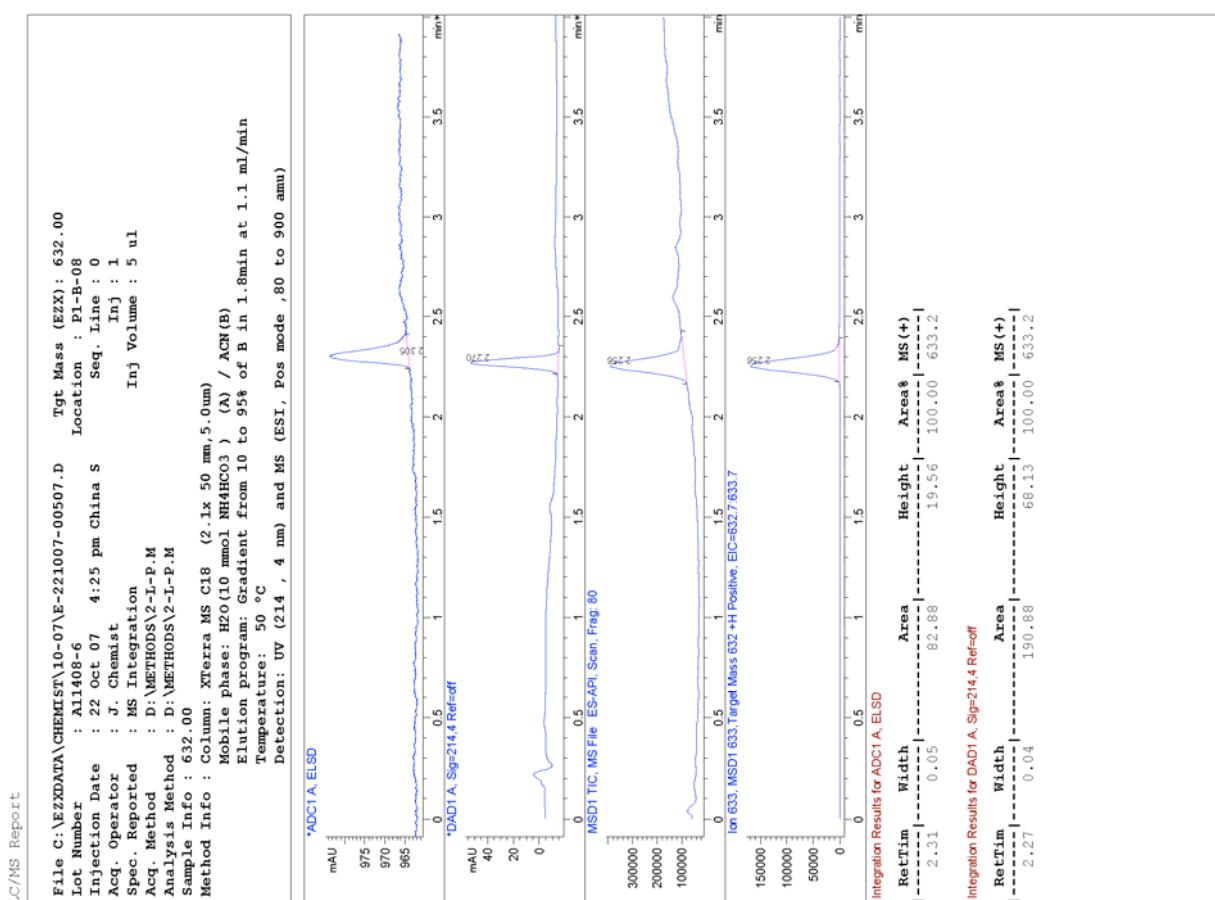
LC/MS Report



The HPLC-MS (p3-4) monitor of the crude product transformed from compound **6**

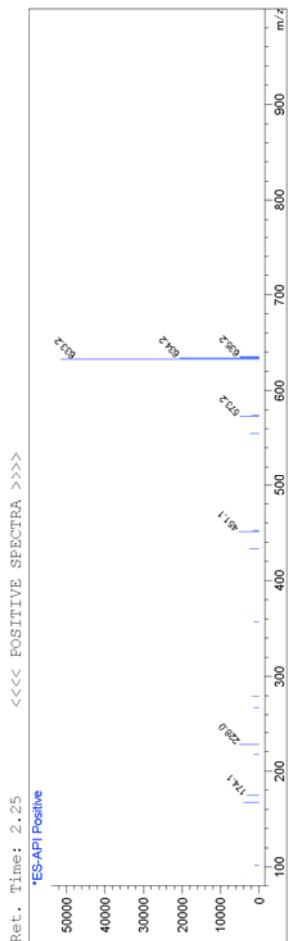
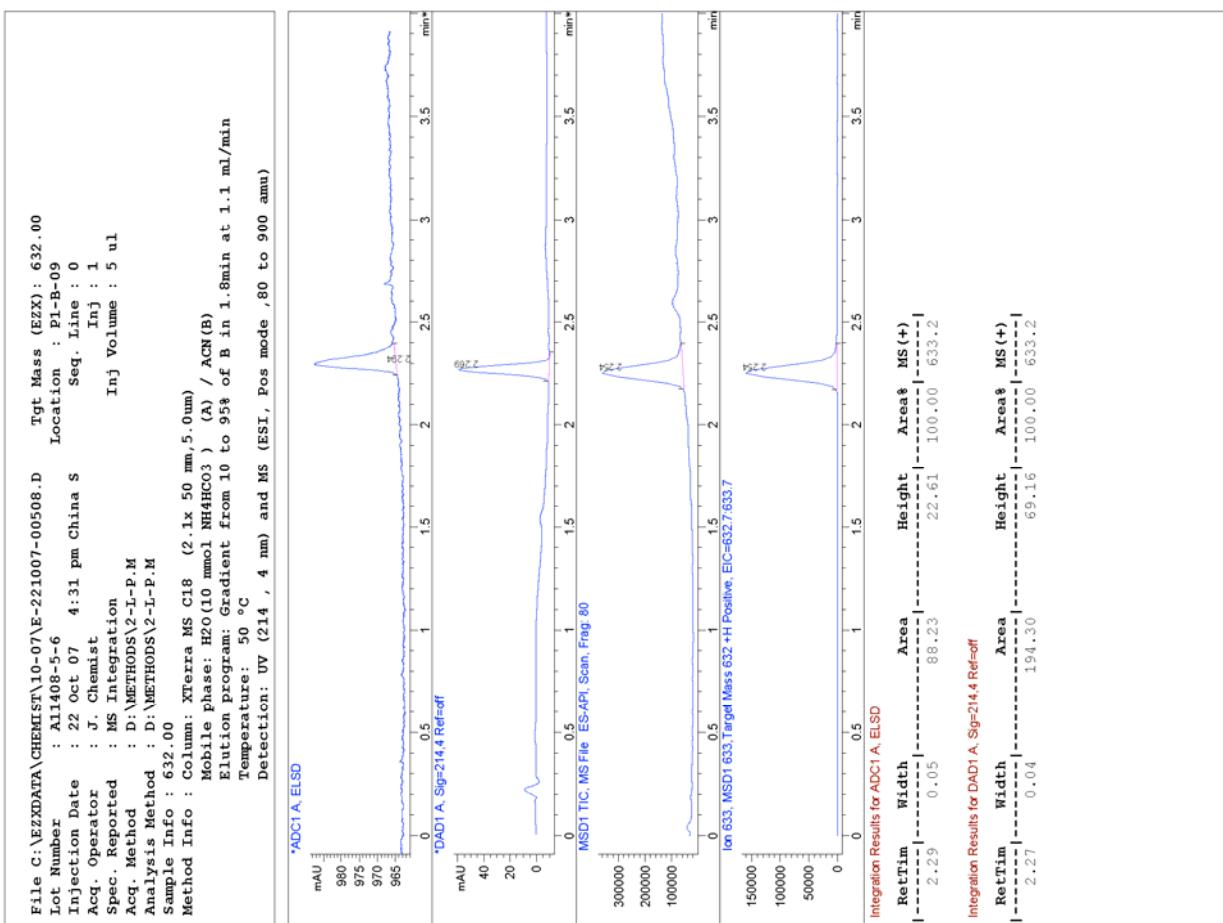


The HPLC-MS monitor of the purified product transformed from compound **6**



Co-injection of the purified product transformed from **6** with compound **5**

LC/MS Report



The HPLC-ESIMS of compound 5

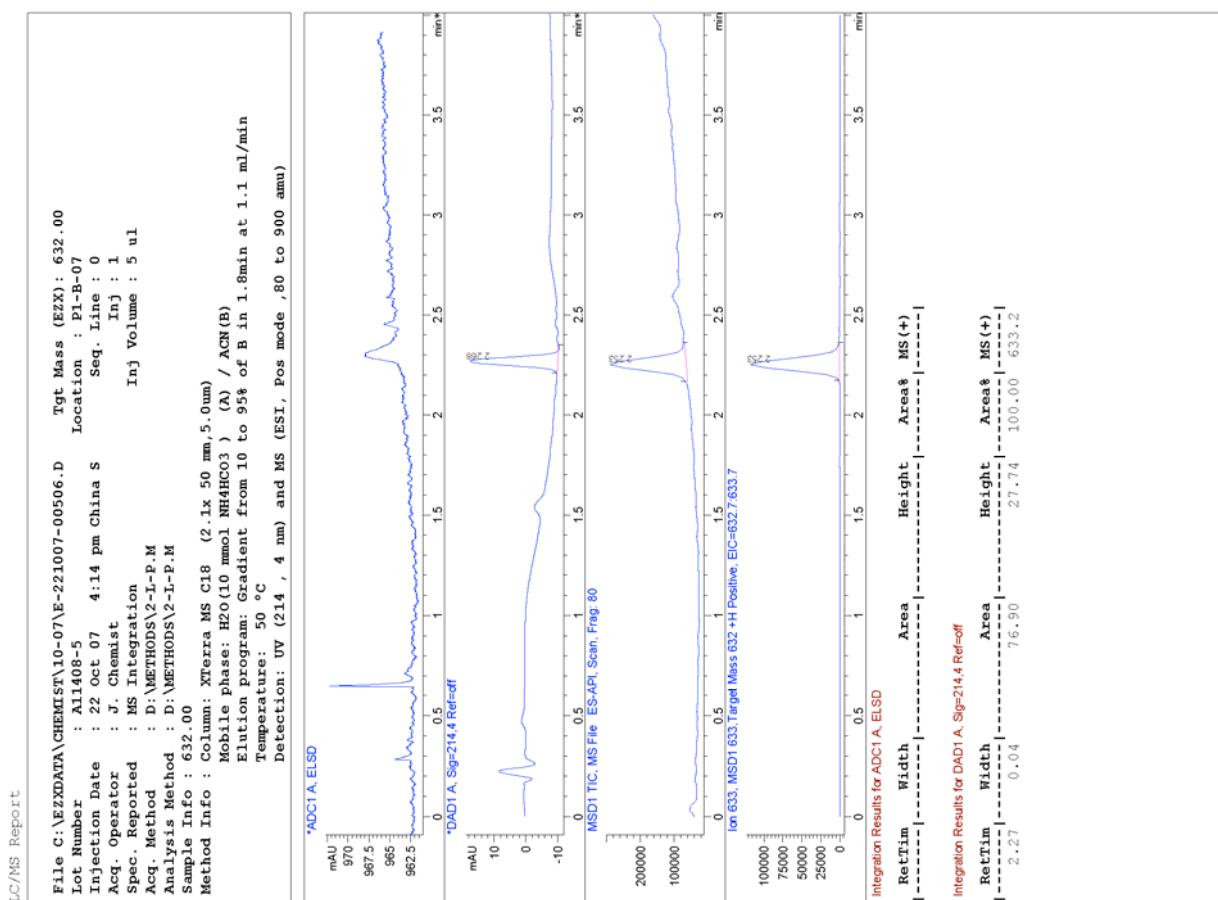


Figure S10. ^1H NMR spectrum of amotsangin A (**1**) in CDCl_3

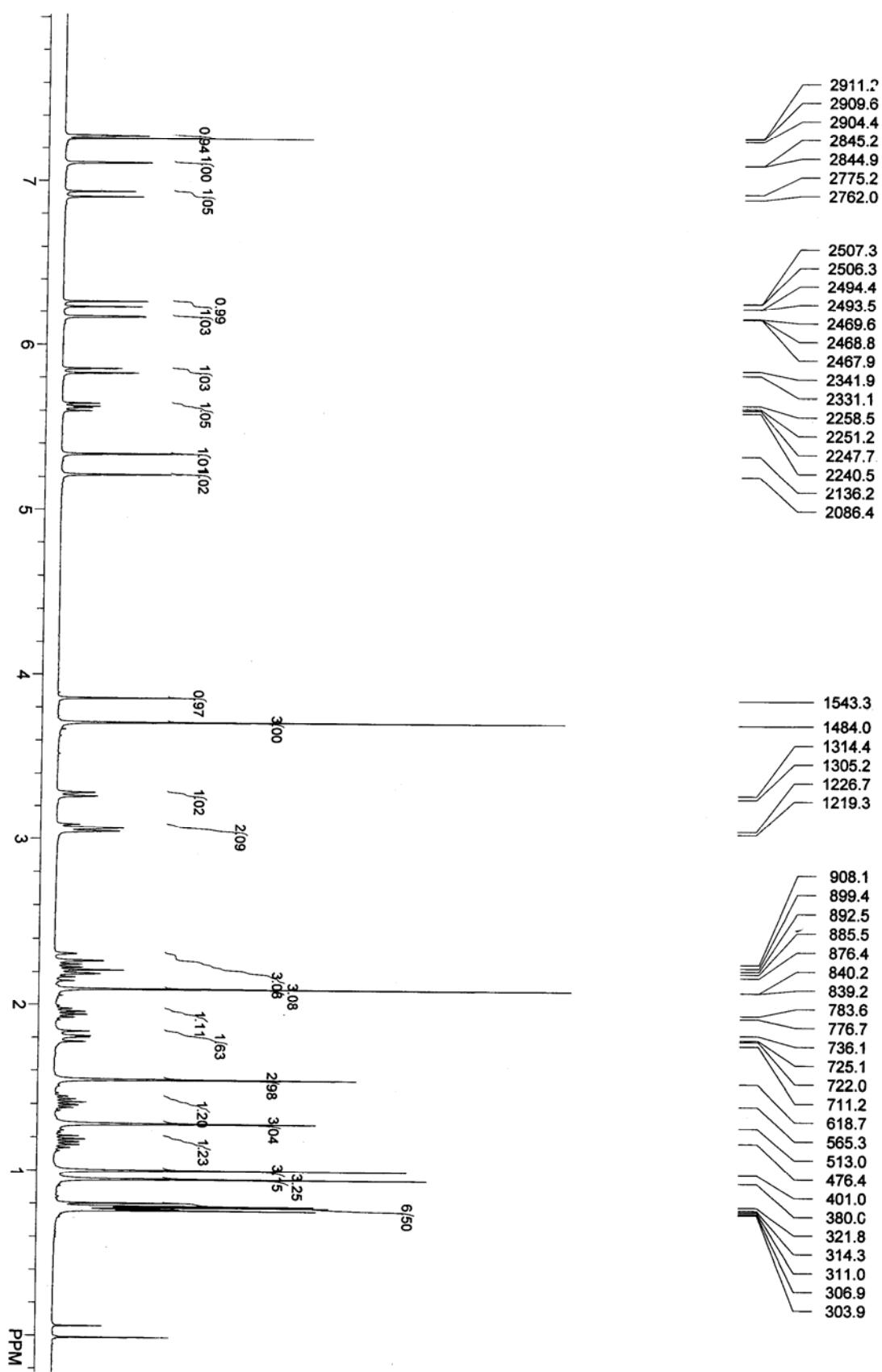


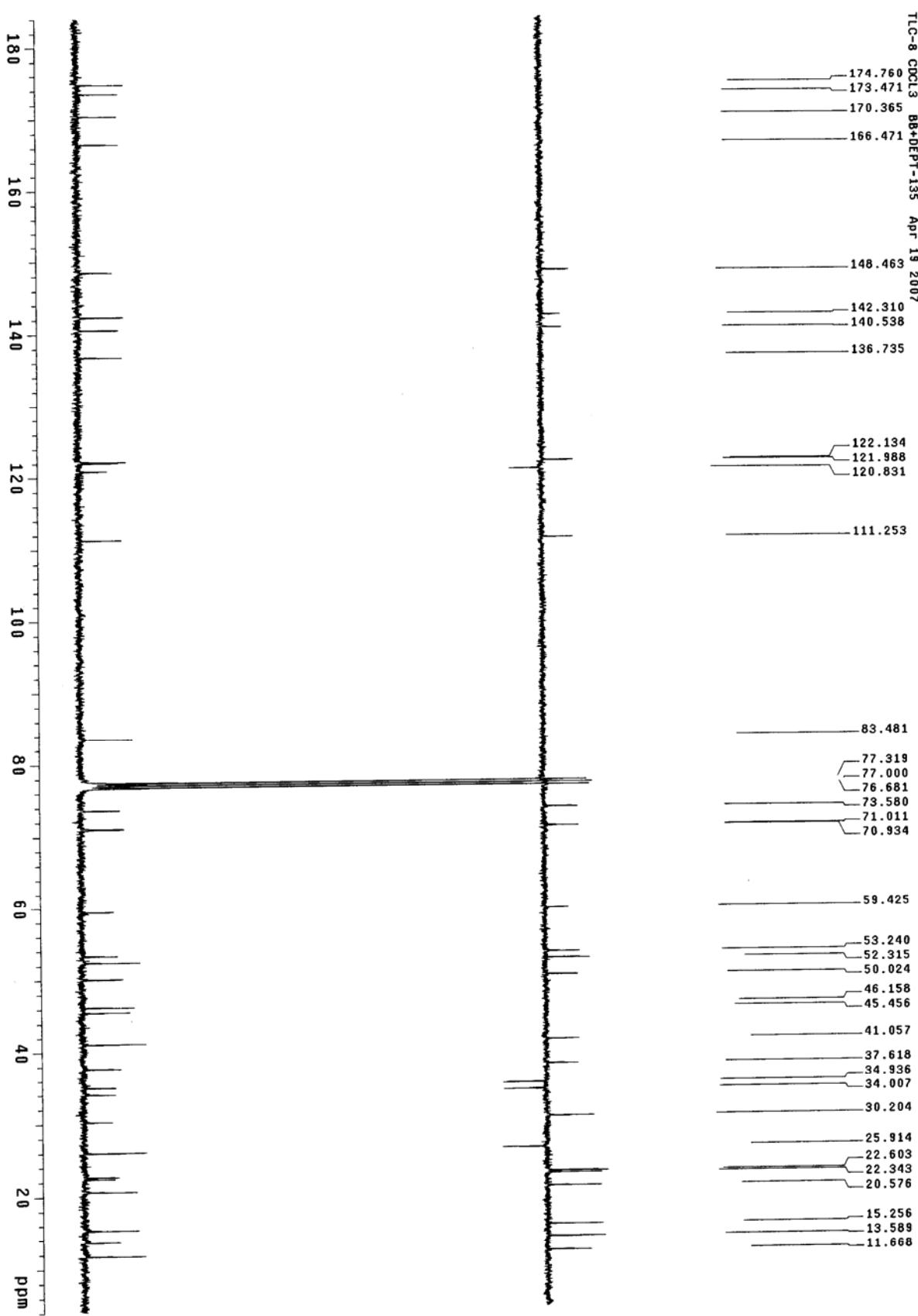
Figure S11. ^{13}C NMR spectrum of amotsangin A (**1**) in CDCl_3 

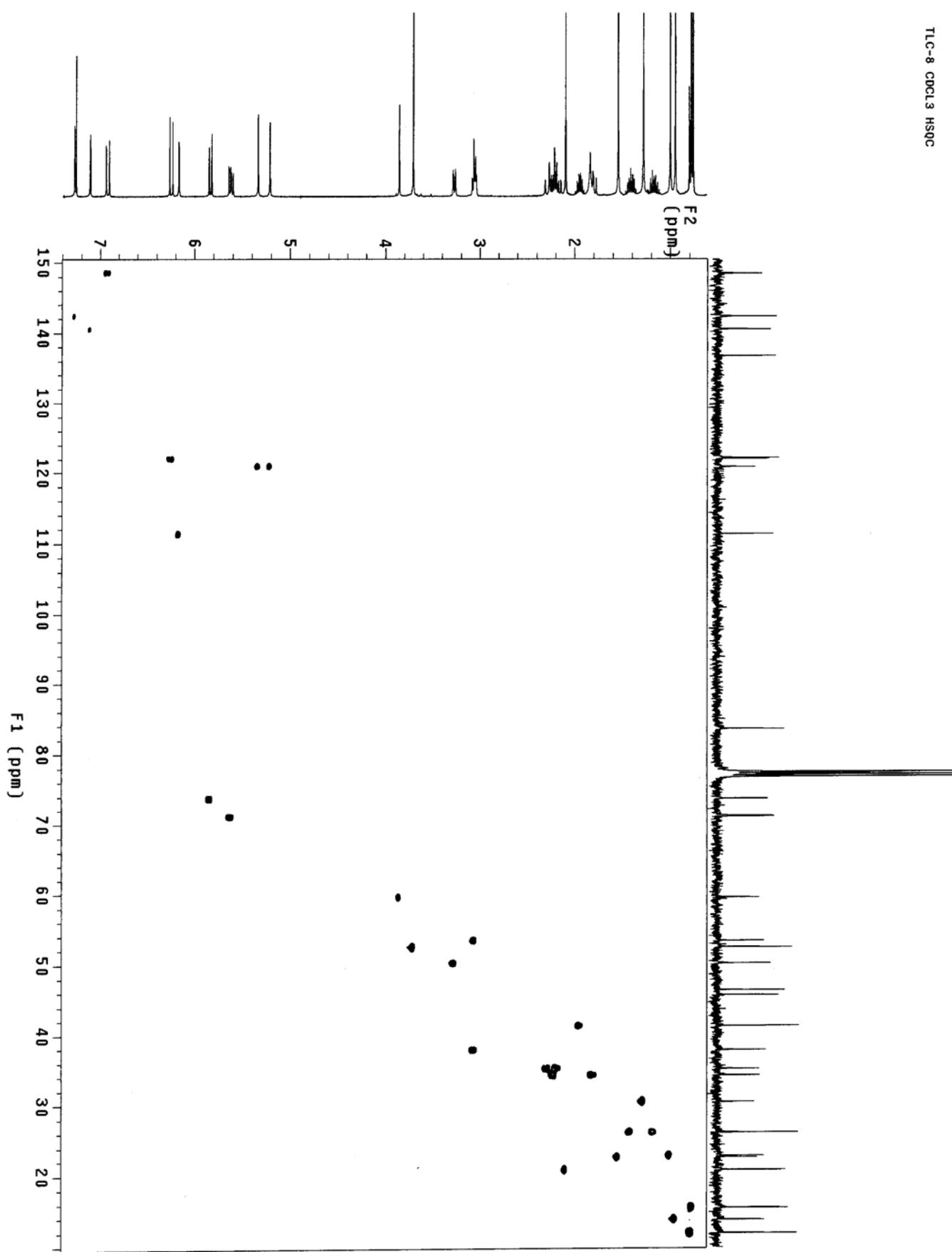
Figure S12. HSQC spectrum of amotsangin A (**1**) in CDCl_3 

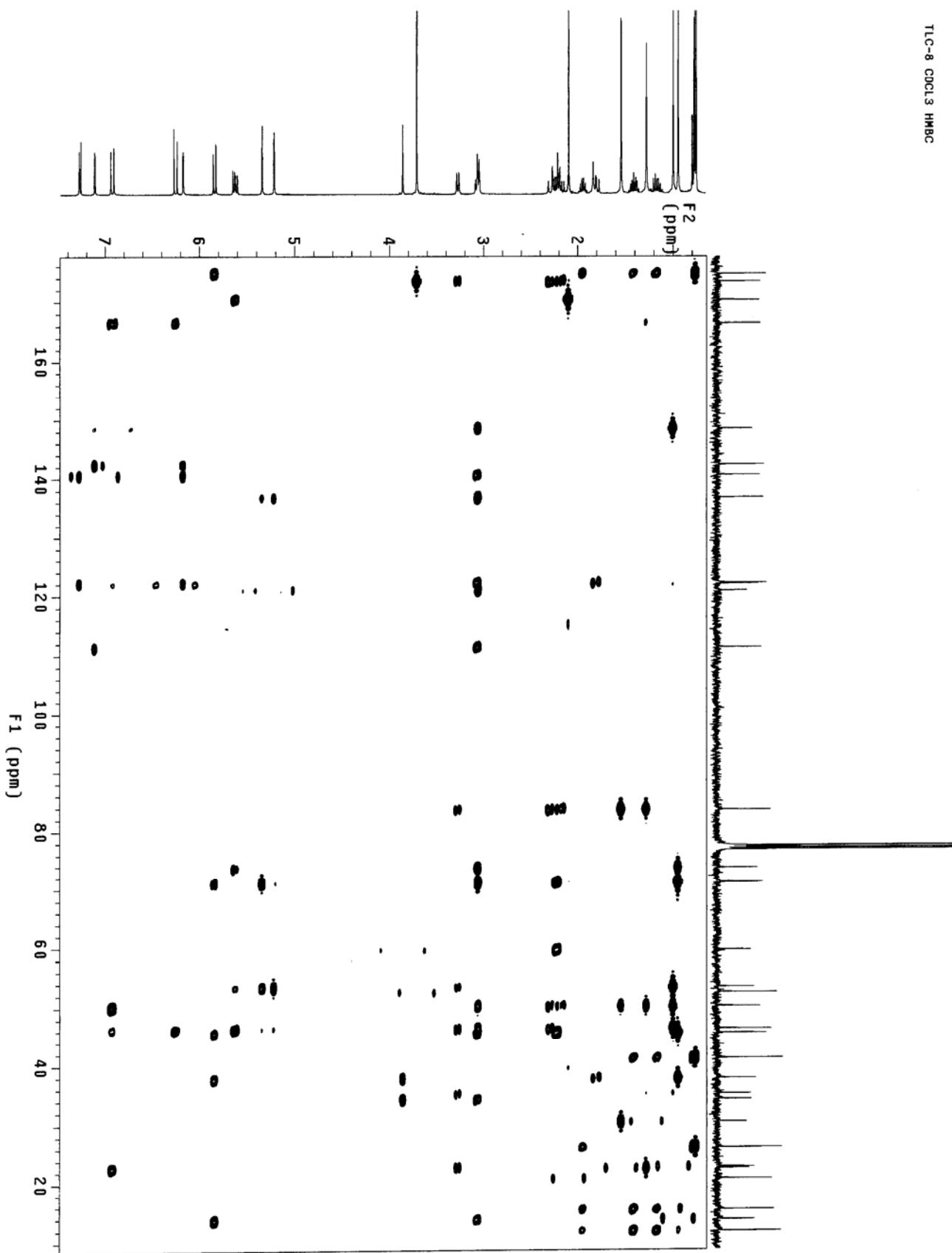
Figure S13. HMBC spectrum of amotsangin A (**1**) in CDCl_3 

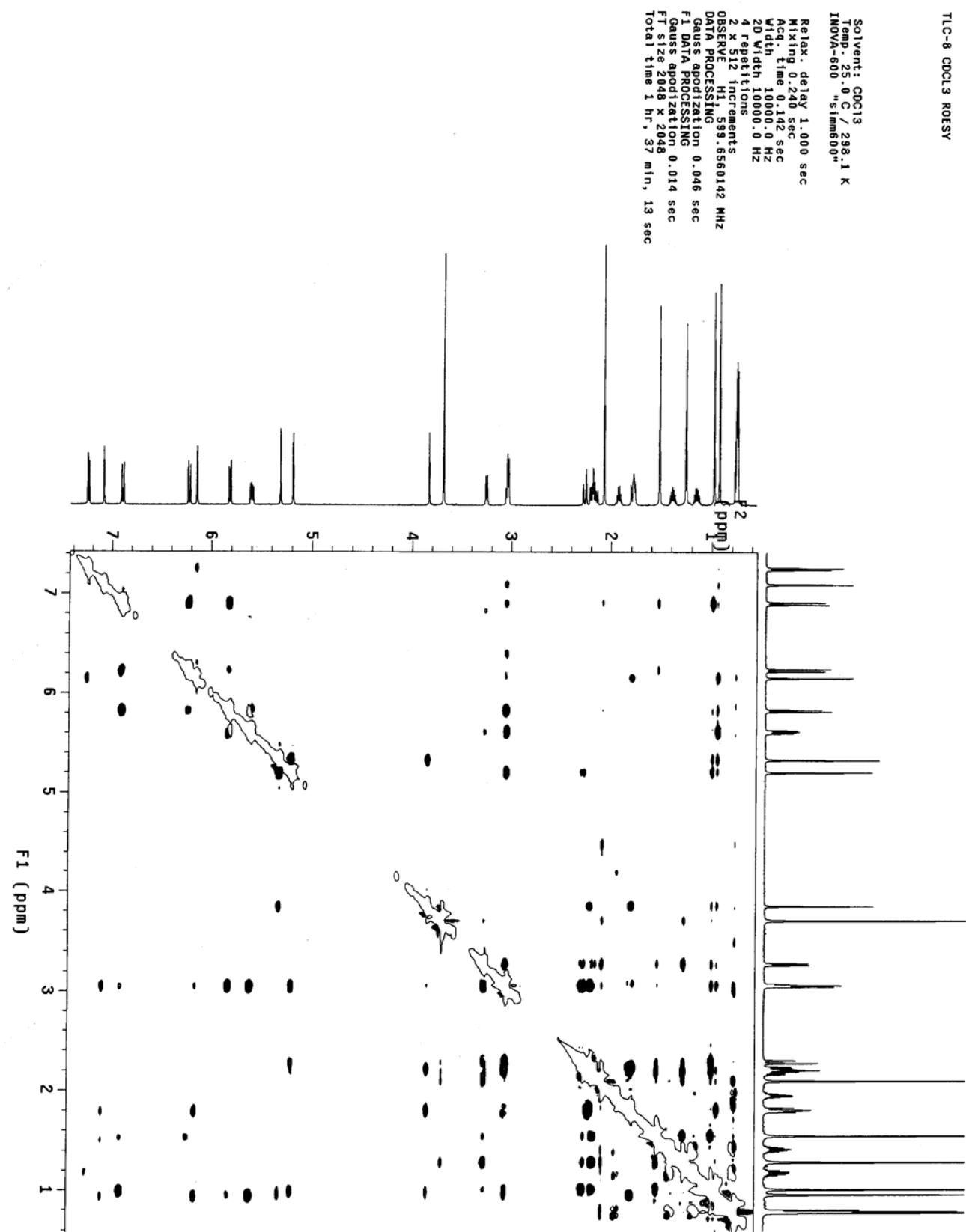
Figure S14. ROESY spectrum of amotsangin A (**1**) in CDCl₃

Figure S15. EIMS spectrum of amotsangin A (**1**)

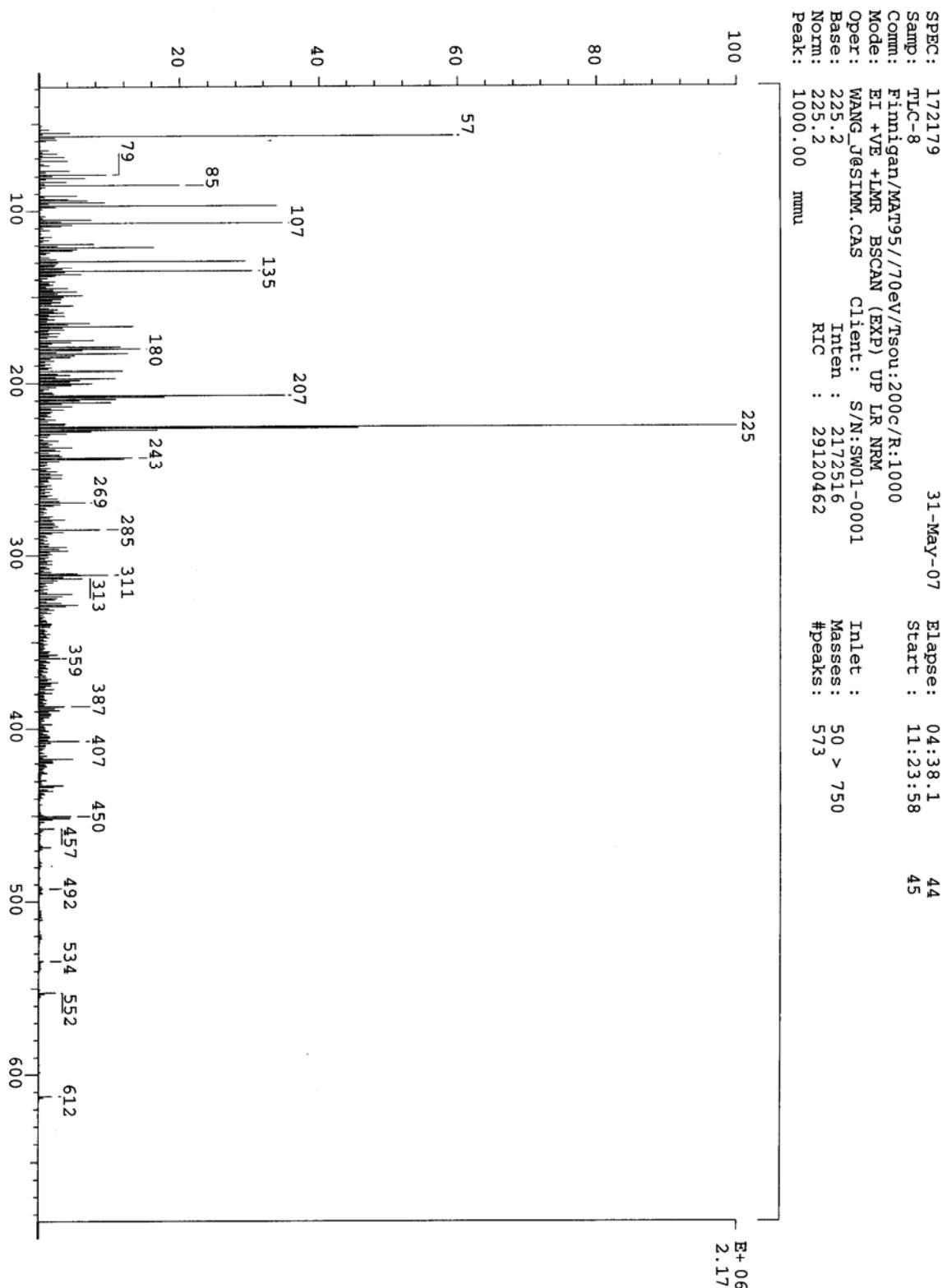


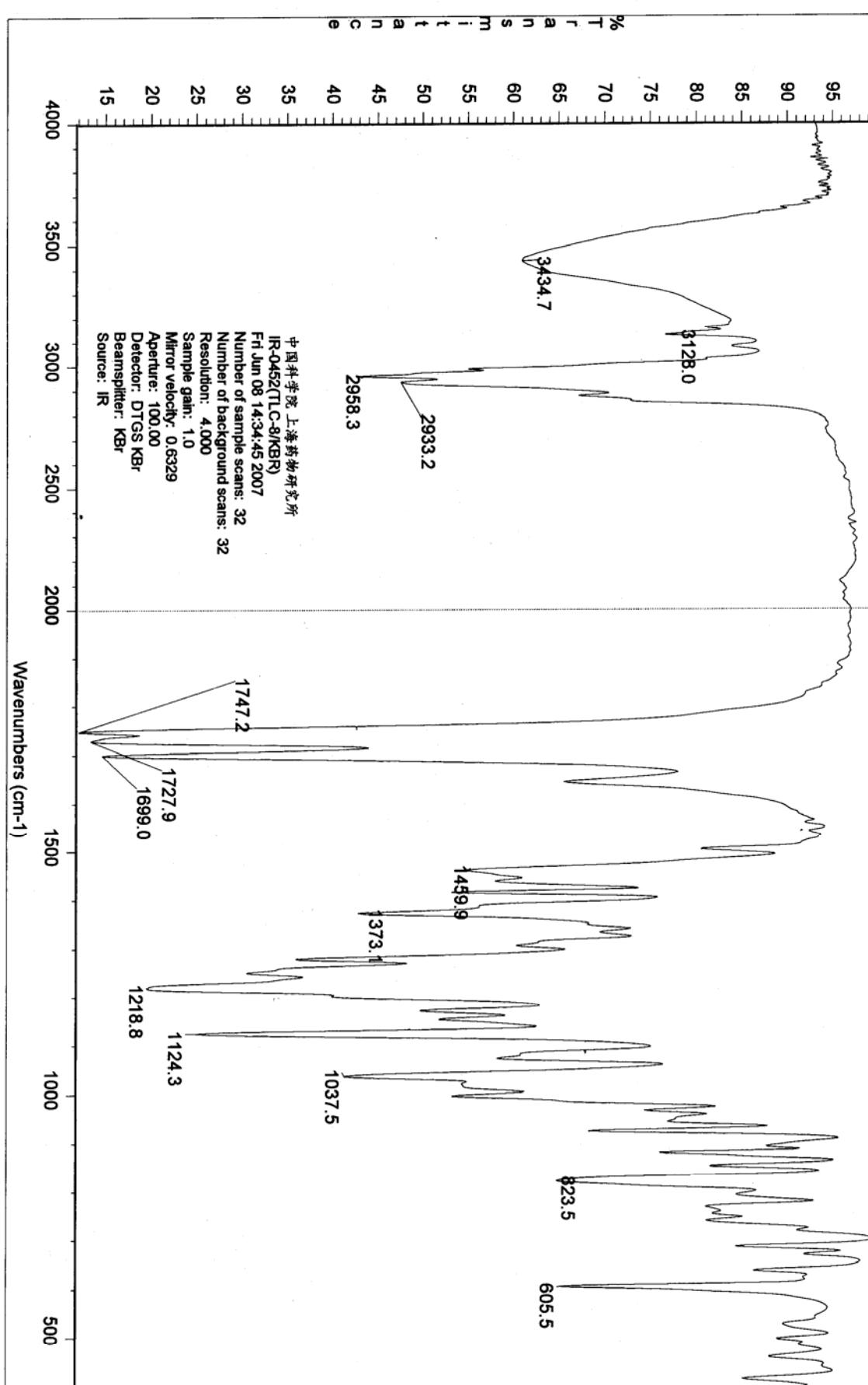
Figure S16. IR spectrum of amotsangin A (**1**).

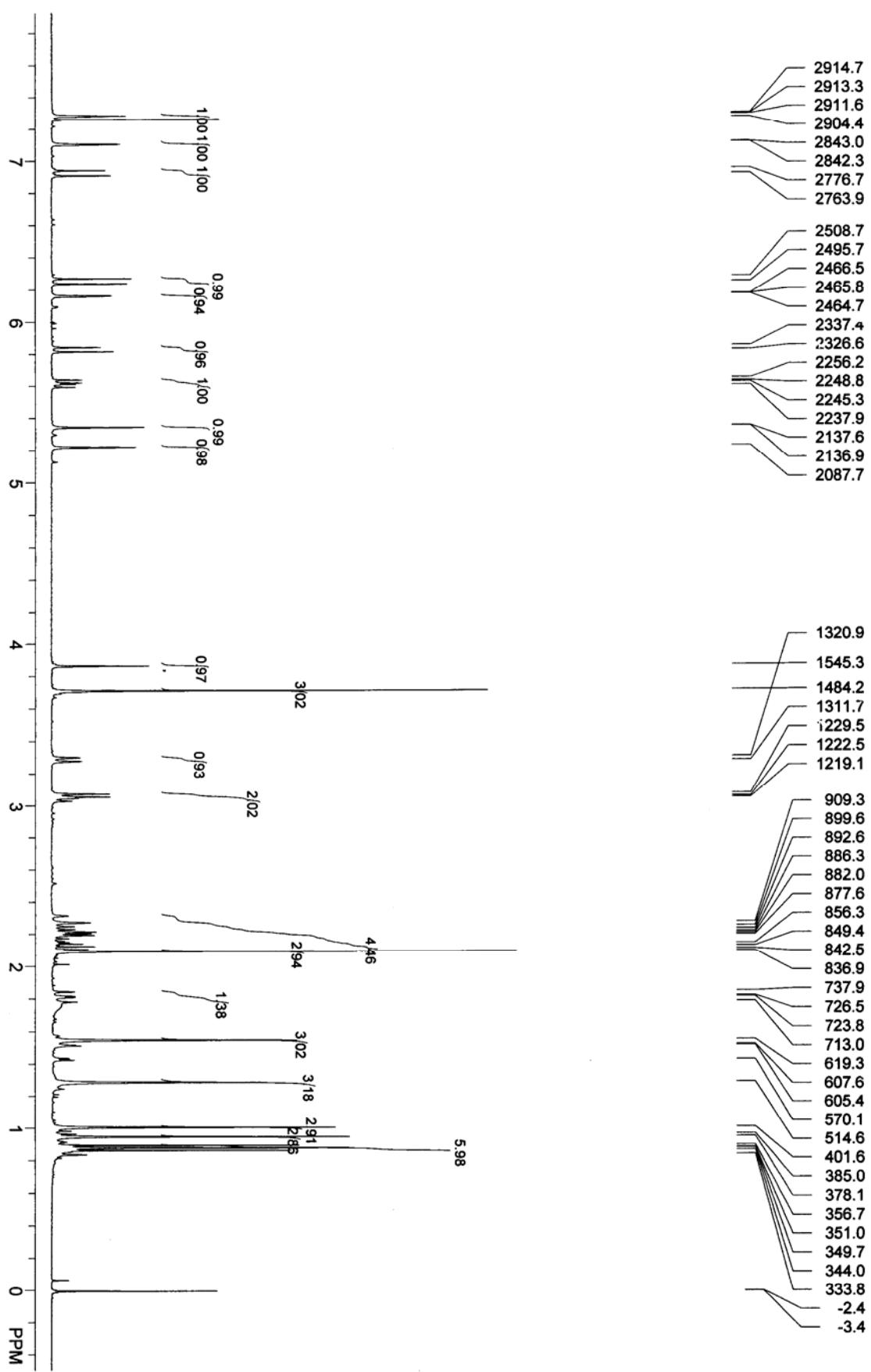
Figure S17. ^1H NMR spectrum of amotsangin B (**2**) in CDCl_3 

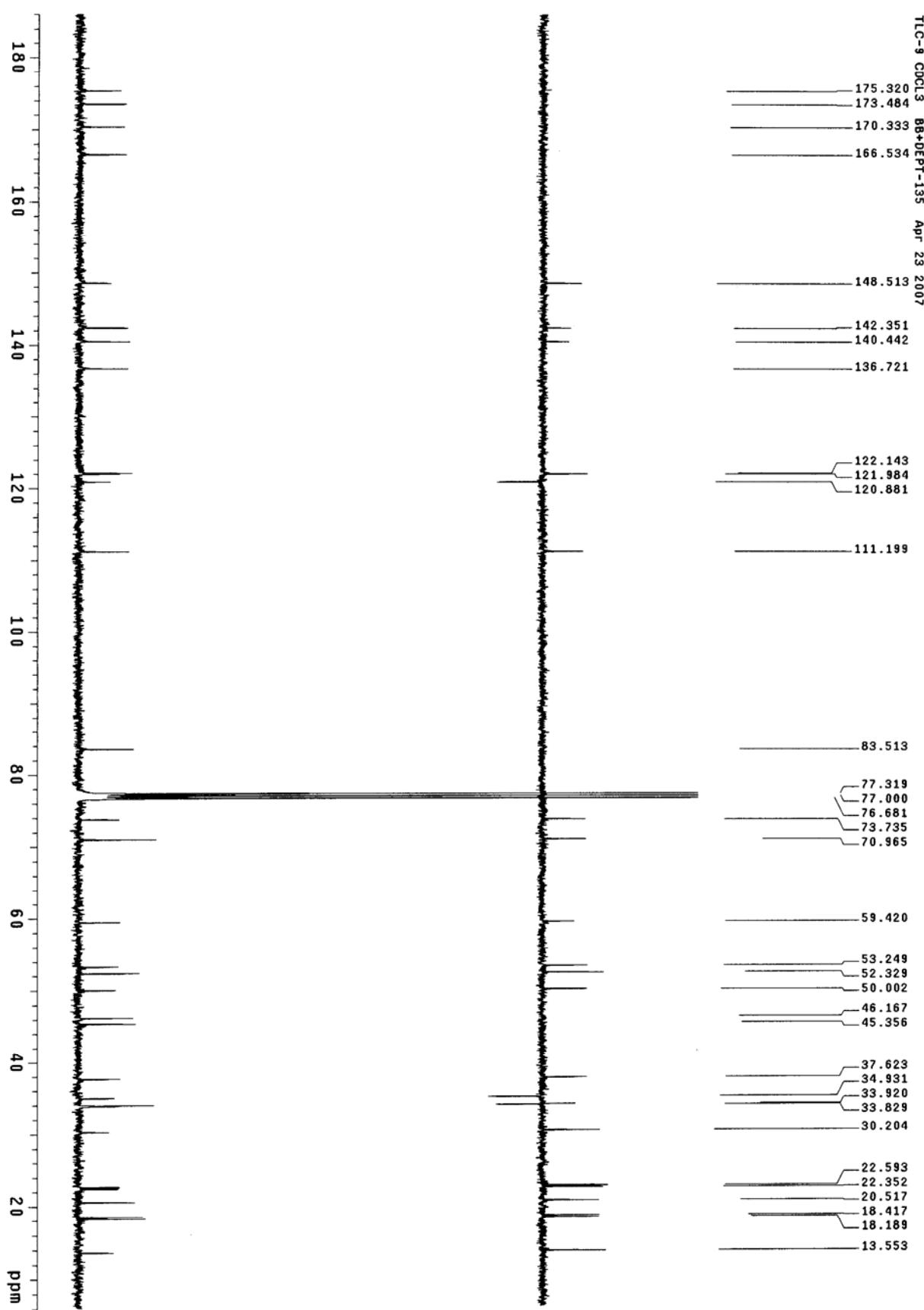
Figure S18. ^{13}C NMR spectrum of amotsangin B (**2**) in CDCl_3 

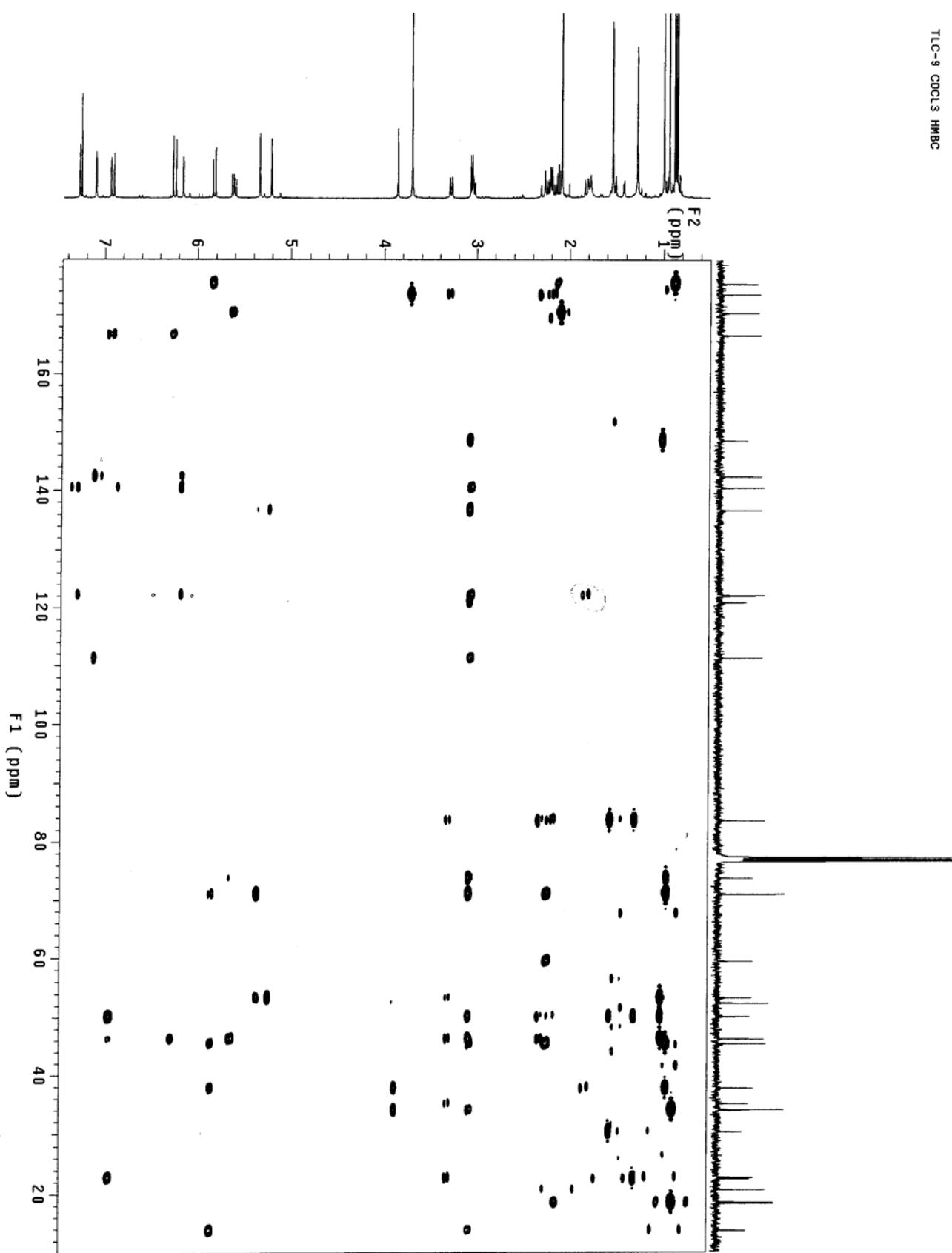
Figure S19. HMBC spectrum of amotsangin B (**2**) in CDCl₃

Figure S20. EIMS spectrum of amotsangin B (2)

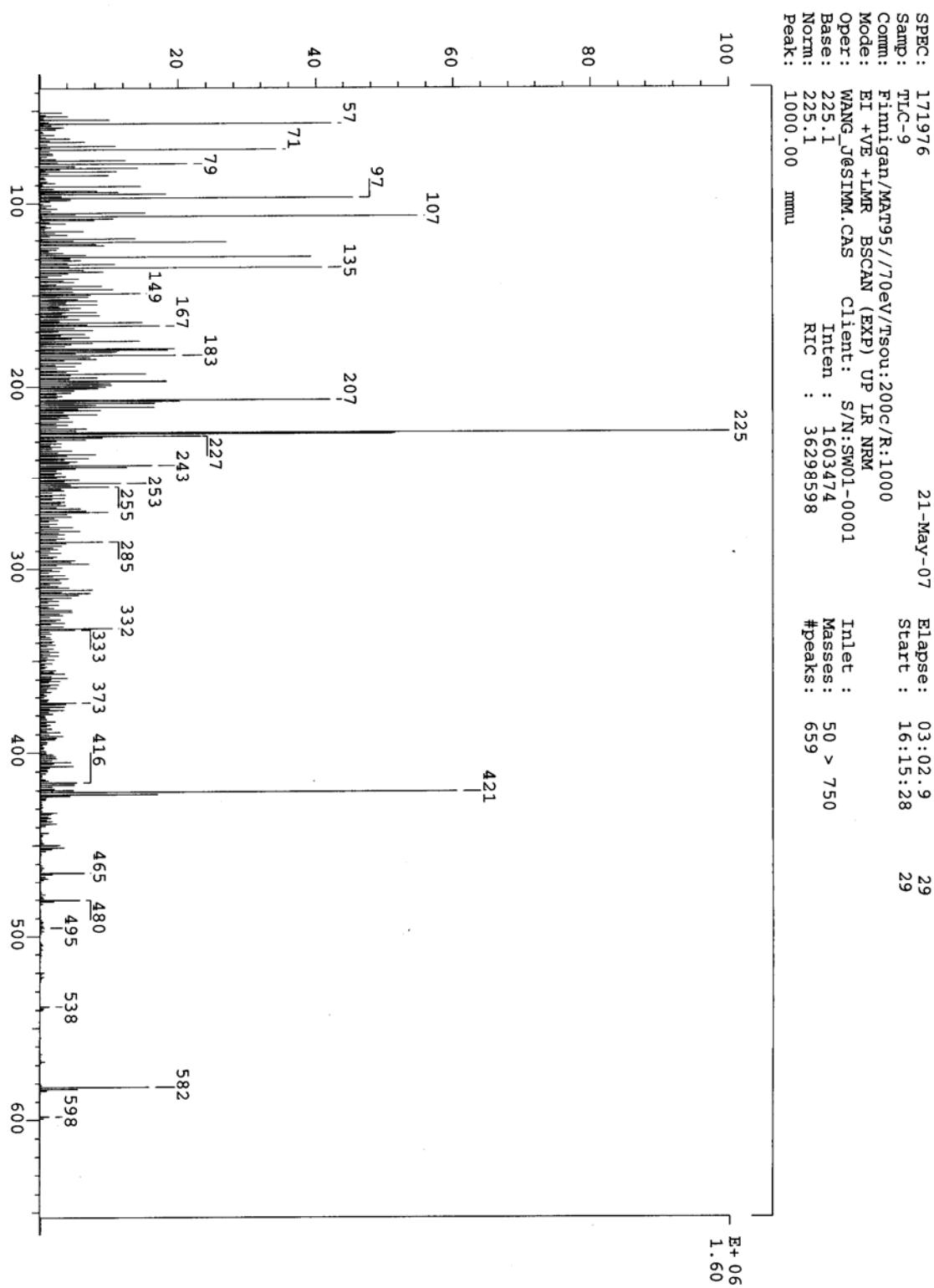


Figure S21. IR spectrum of amotsangin B (2).

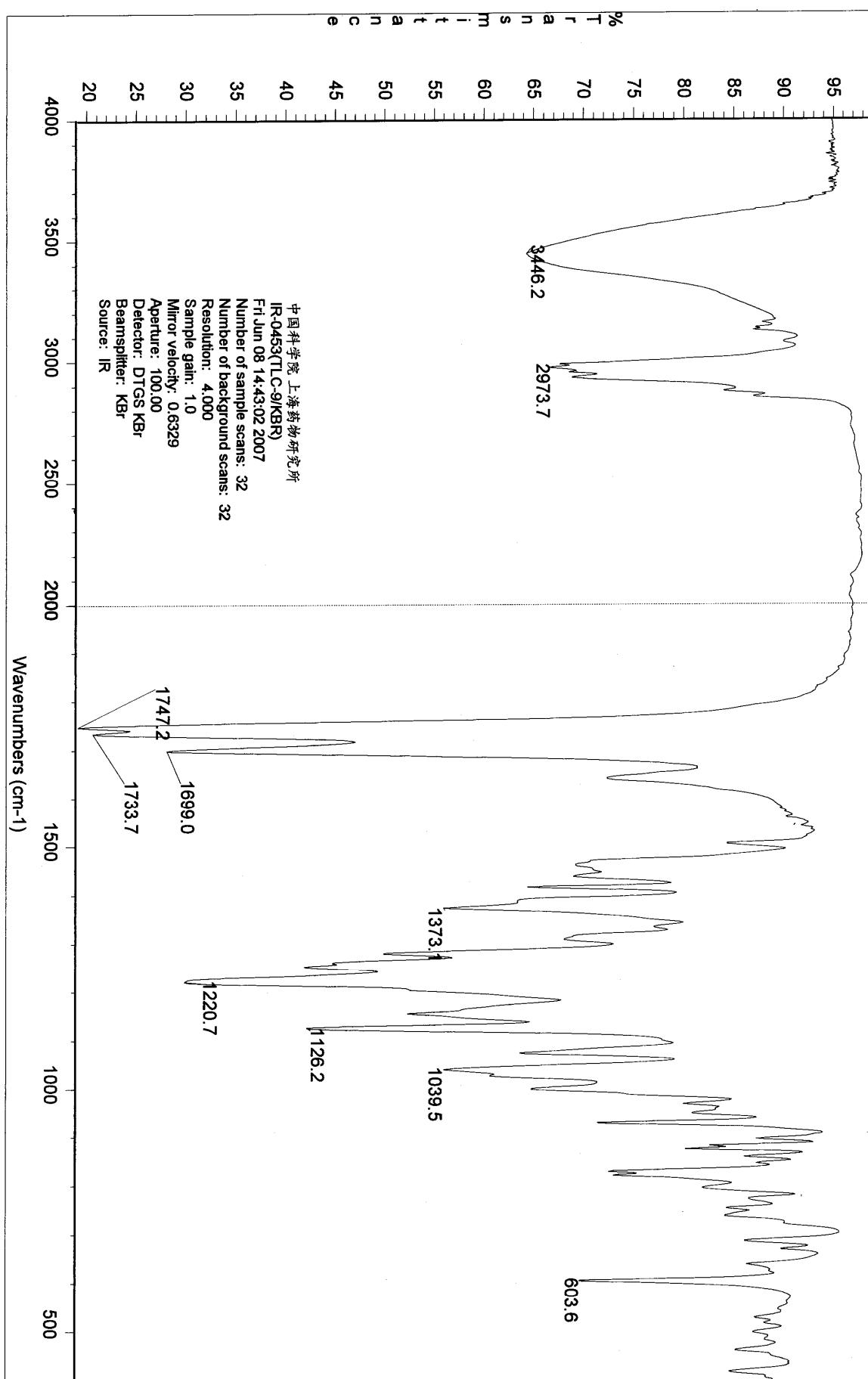


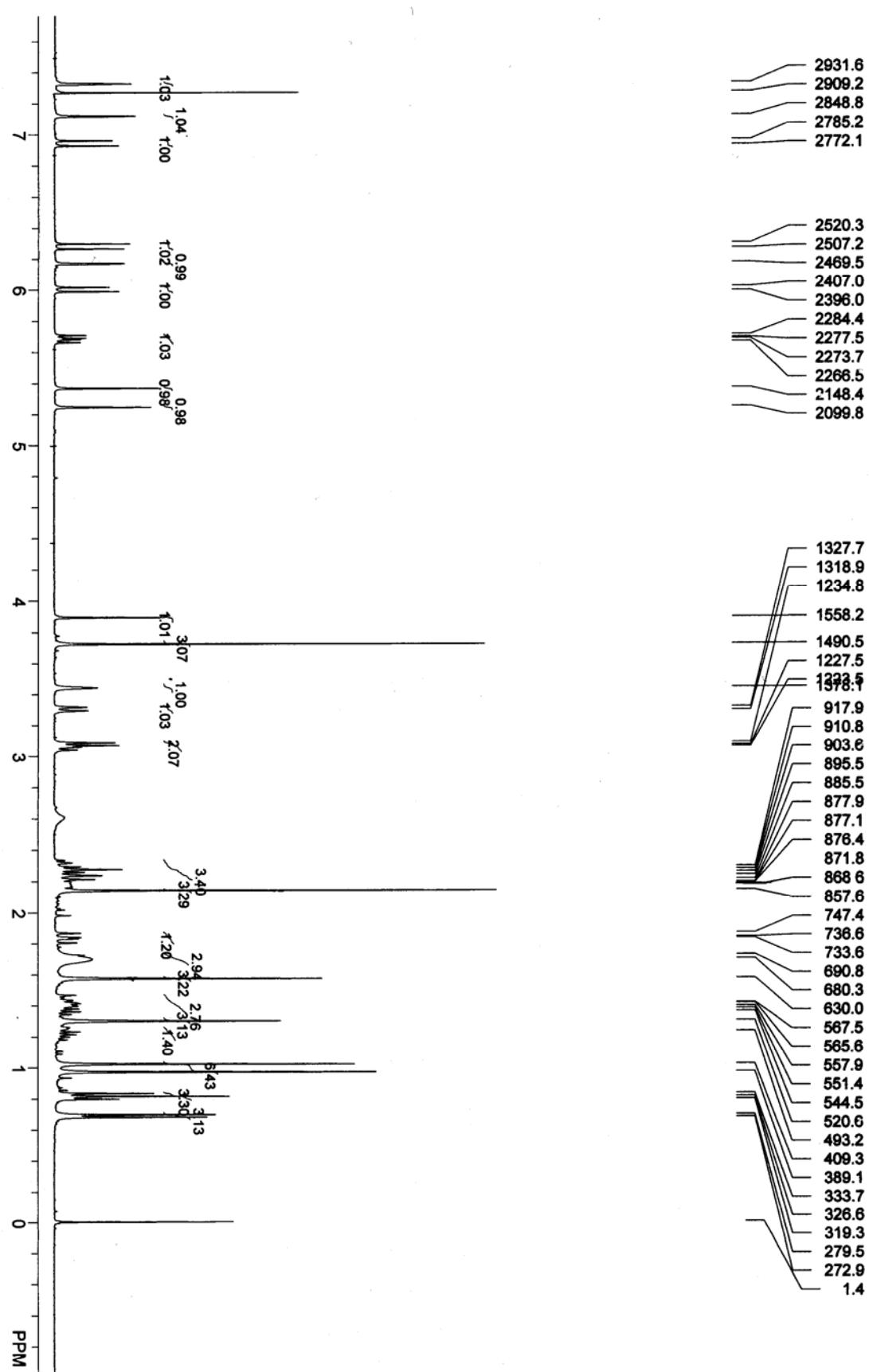
Figure S22. ^1H NMR spectrum of amotsangin C (**3**) in CDCl_3 

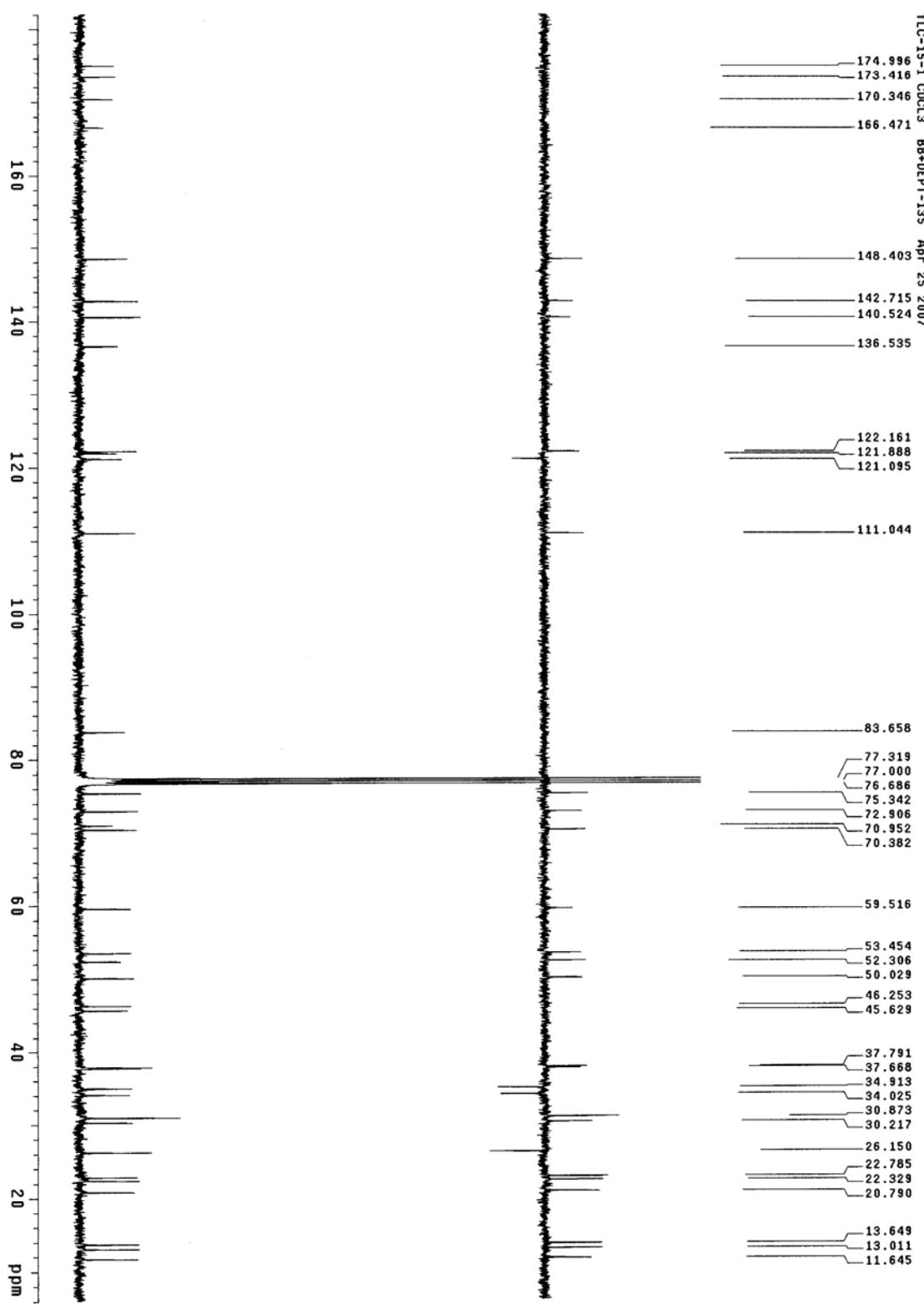
Figure S23. ^{13}C NMR spectrum of amotsangin C (**3**) in CDCl_3 

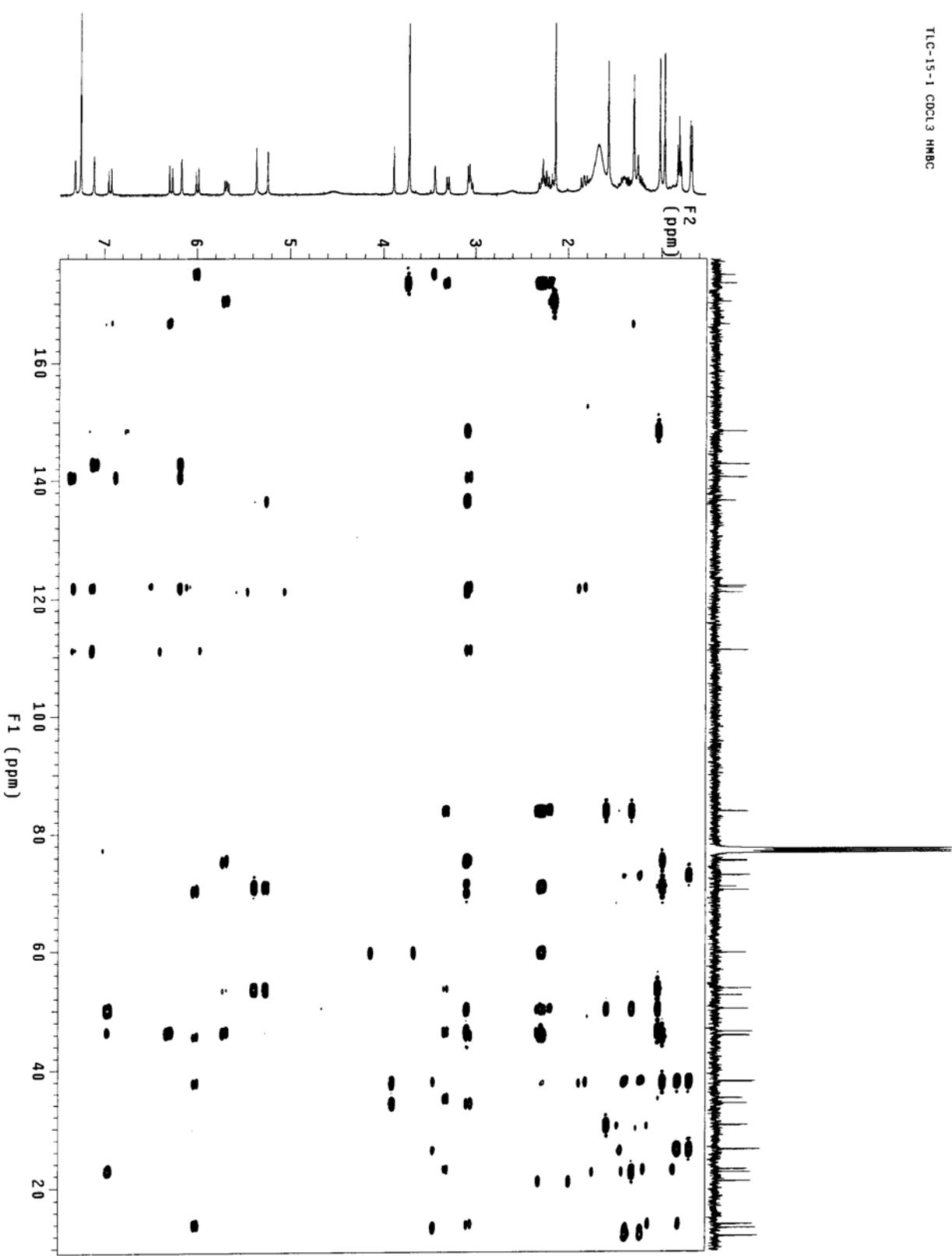
Figure S24. HMBC spectrum of amotsangin C (**3**) in CDCl₃

Figure S25. EIMS spectrum of amotsangin C (**3**)

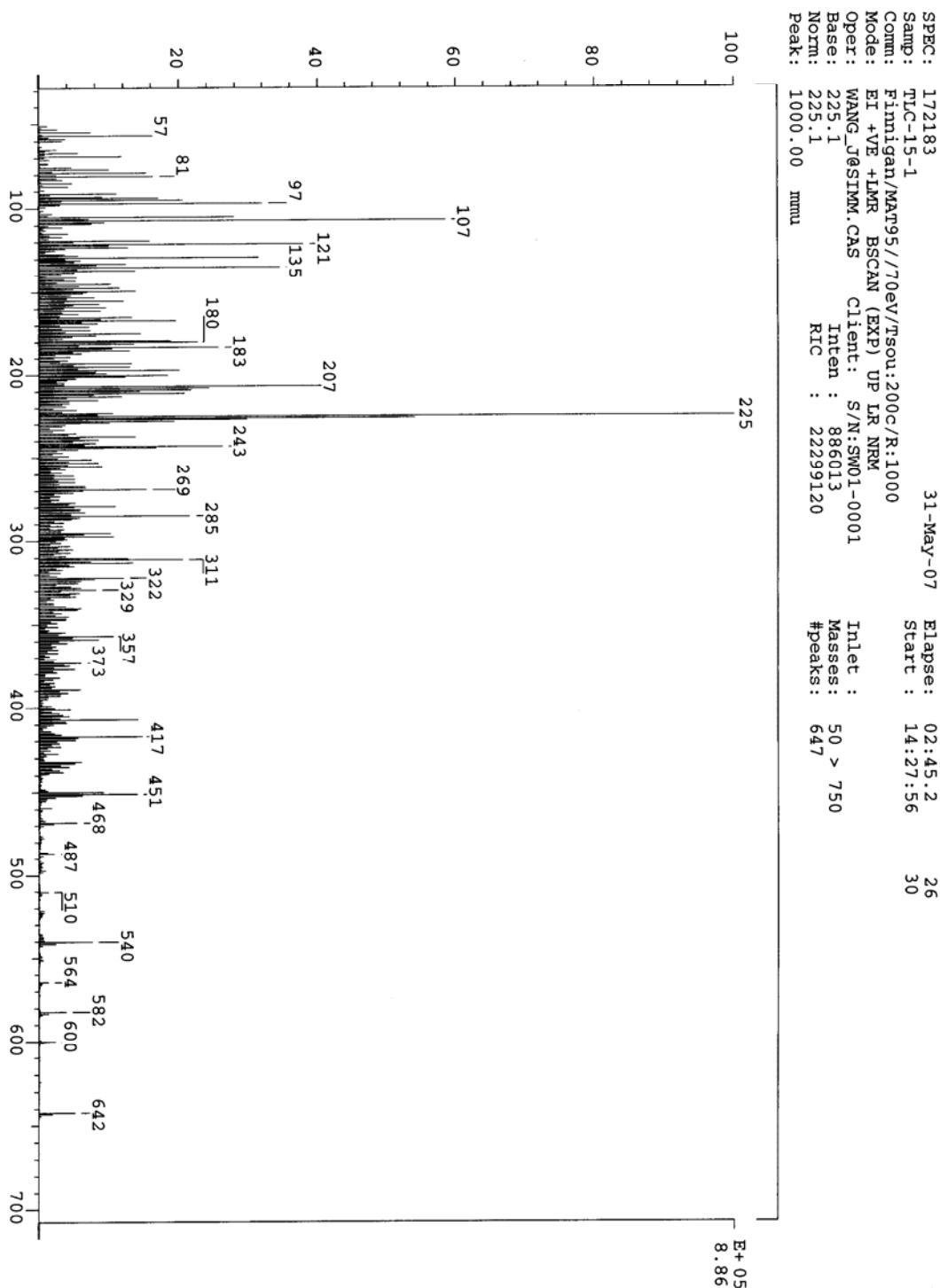


Figure S26. IR spectrum of amotsangin C (3).

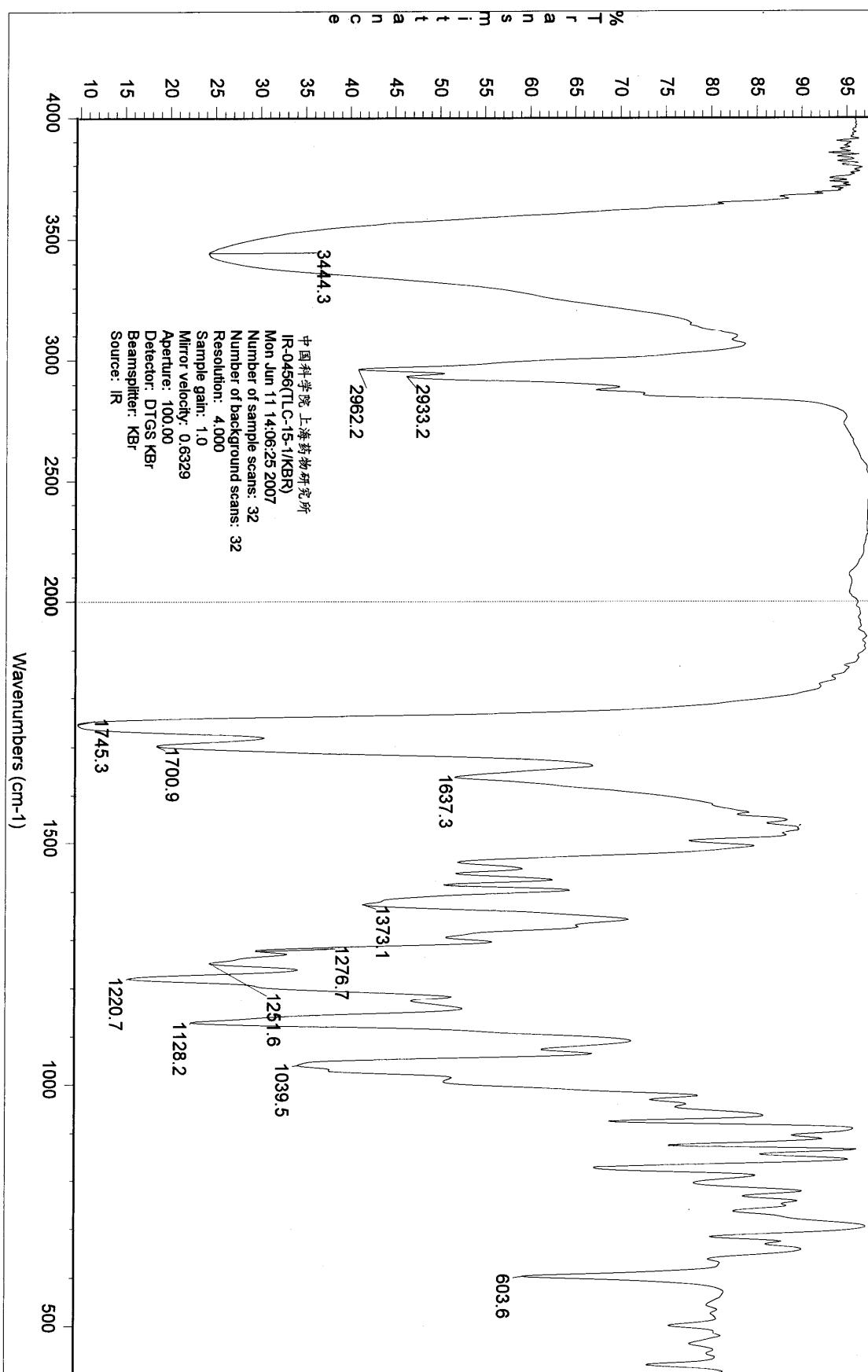


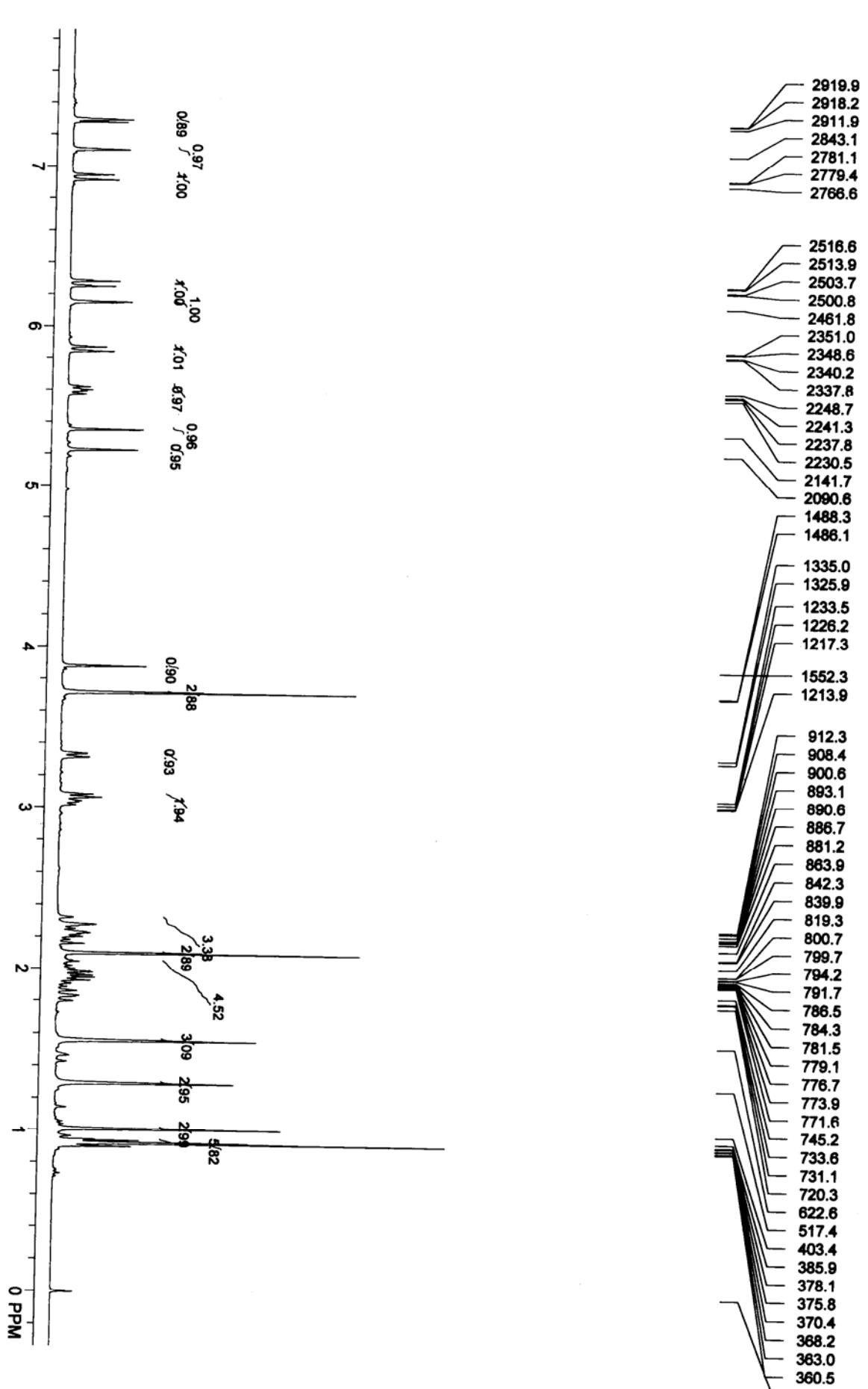
Figure S27. ^1H NMR spectrum of amotsangin D (**4**) in CDCl_3 

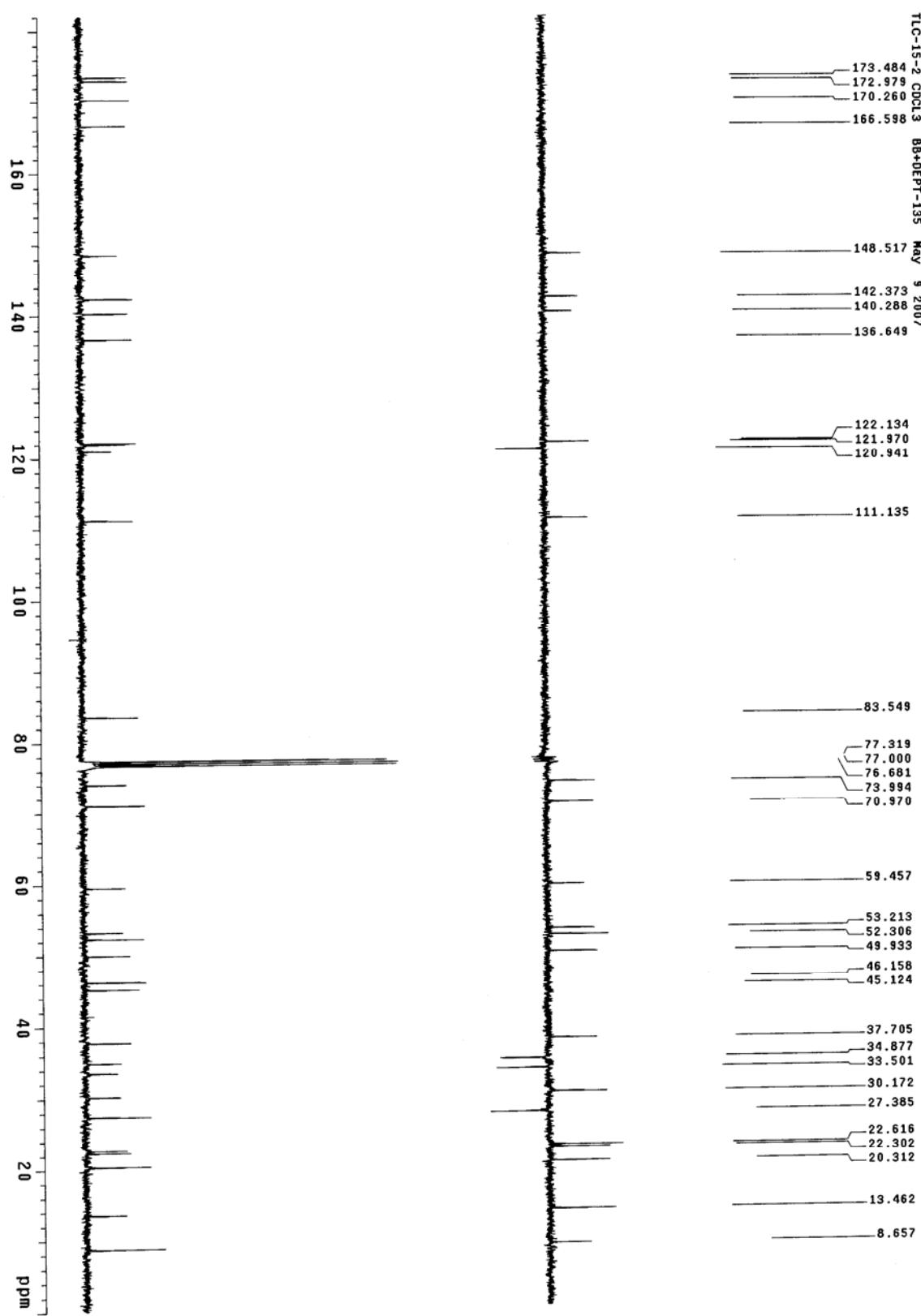
Figure S28. ^{13}C NMR spectrum of amotsangin D (**4**) in CDCl_3 

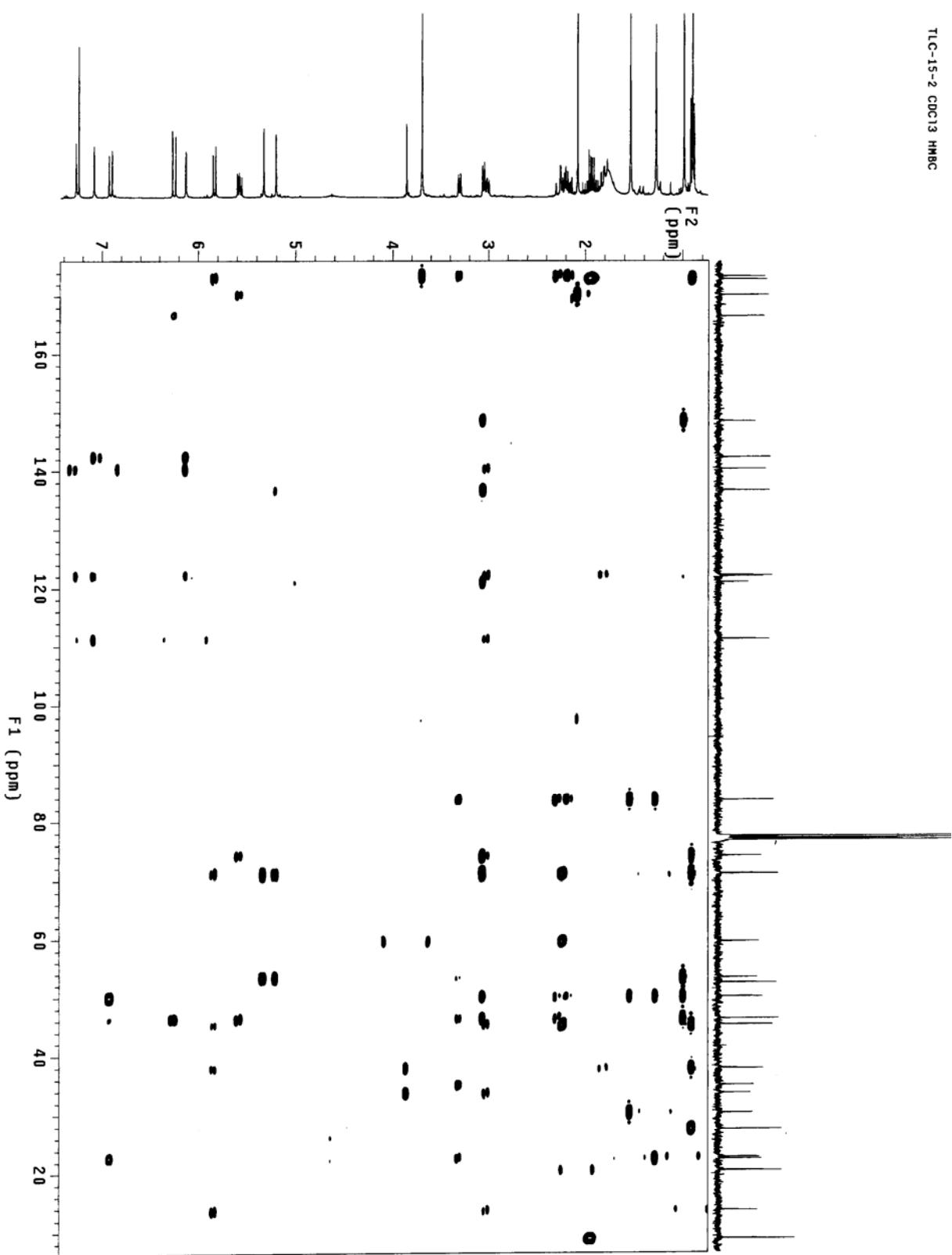
Figure S29. HMBC spectrum of amotsangin D (**4**) in CDCl_3 

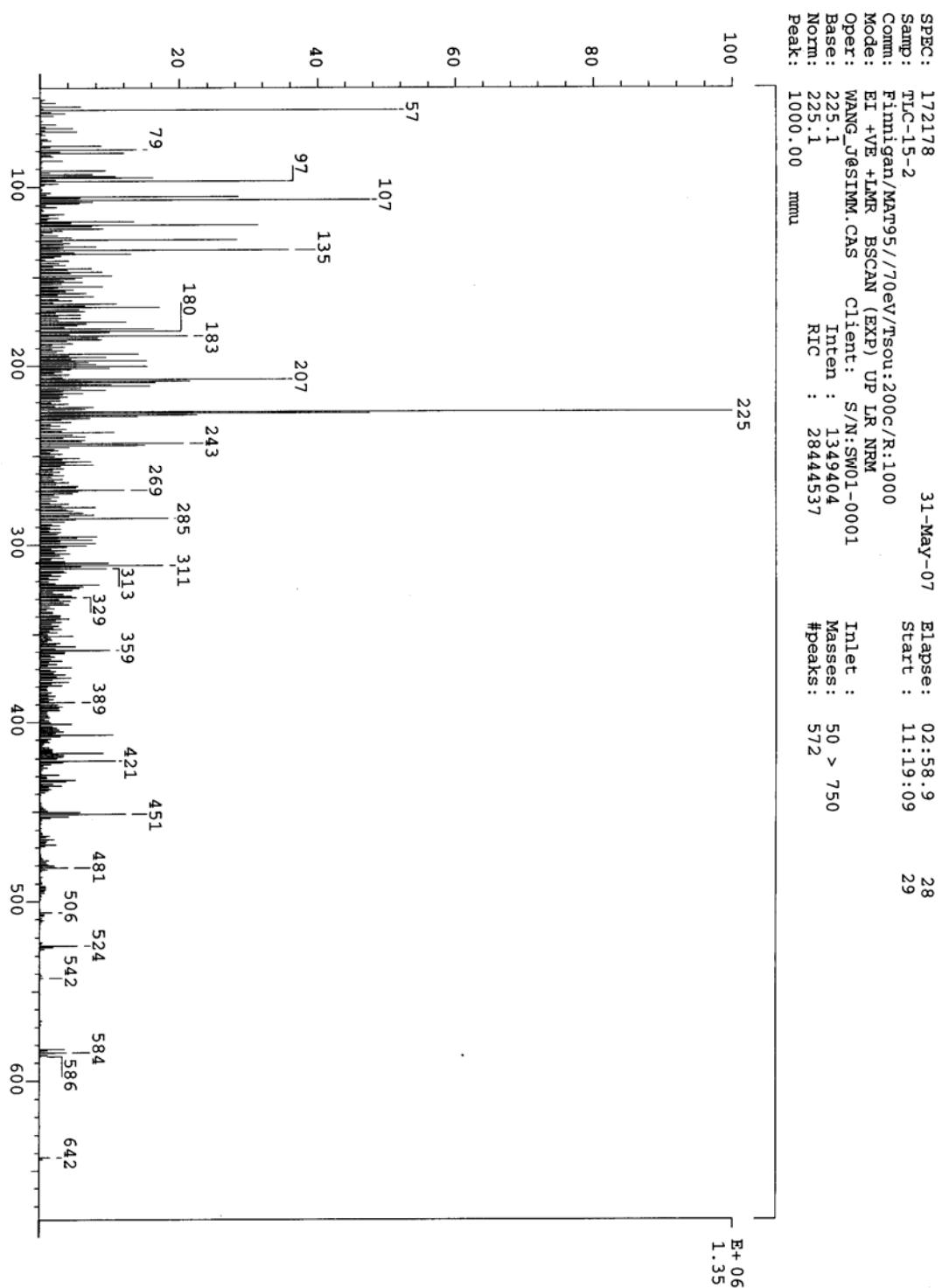
Figure S30. EIMS spectrum of amotsangin D (**4**)

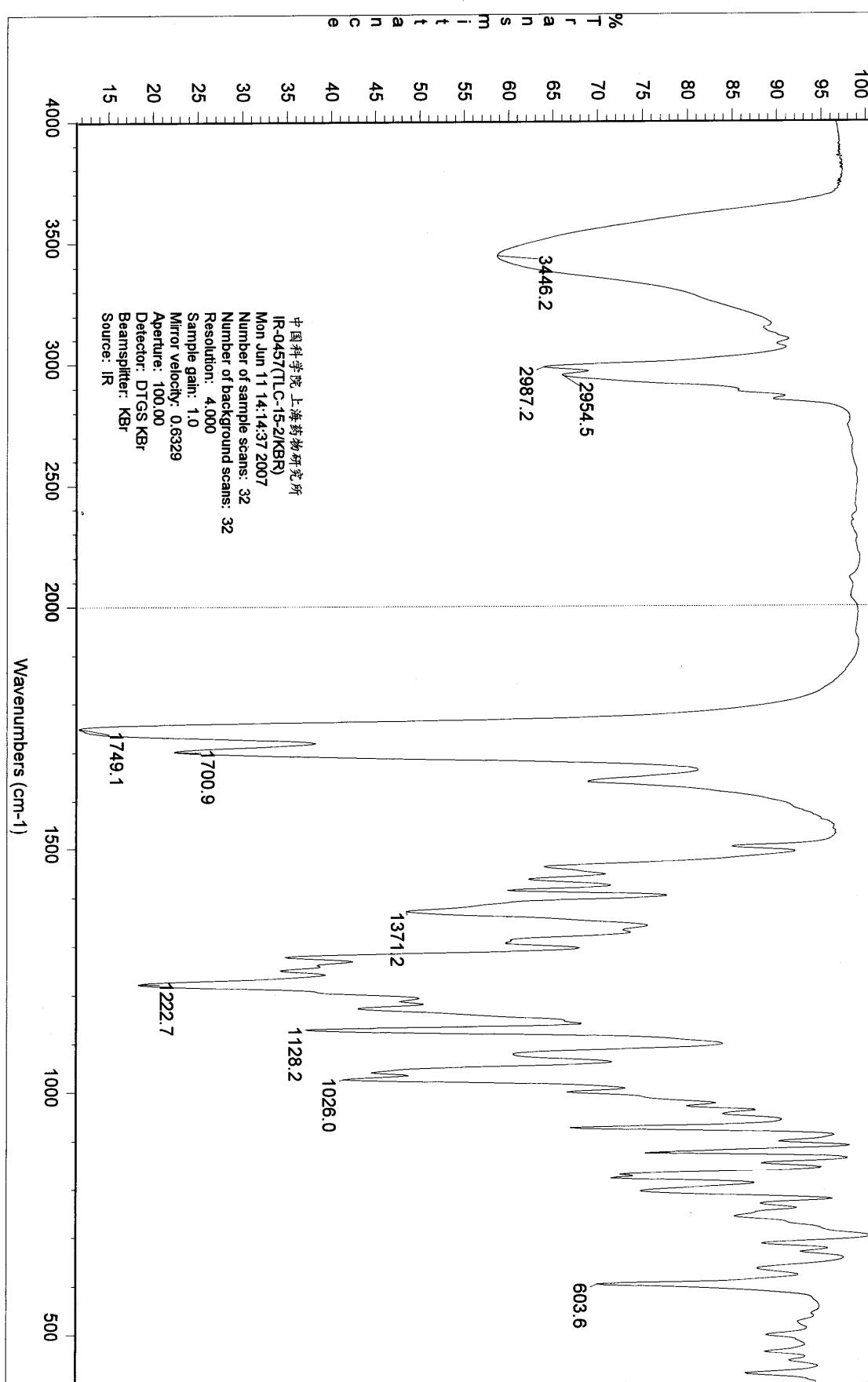
Figure S31. IR spectrum of amotsangin D (**4**).

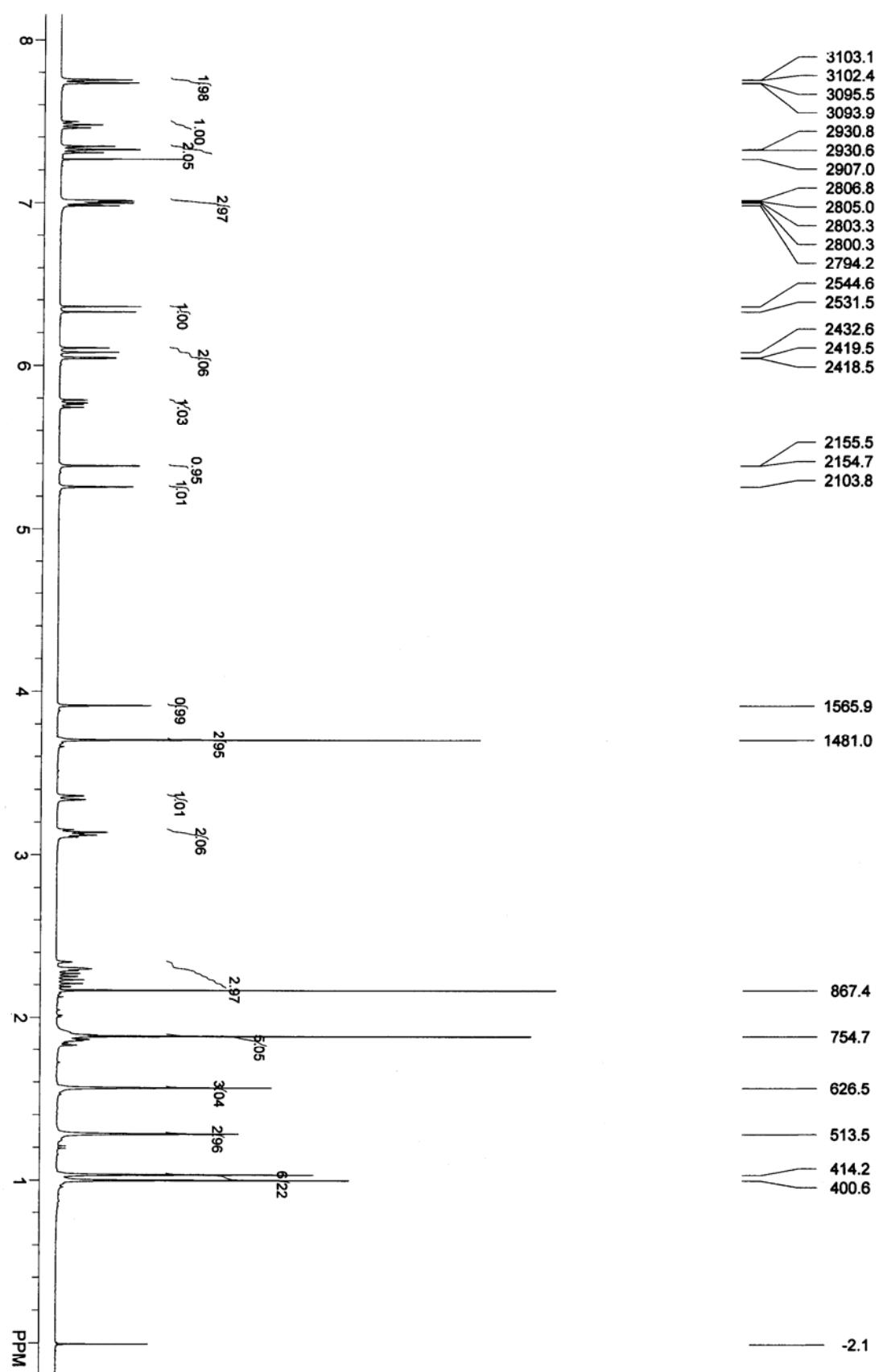
Figure S32. ^1H NMR spectrum of amotsangin E (**5**) in CDCl_3 

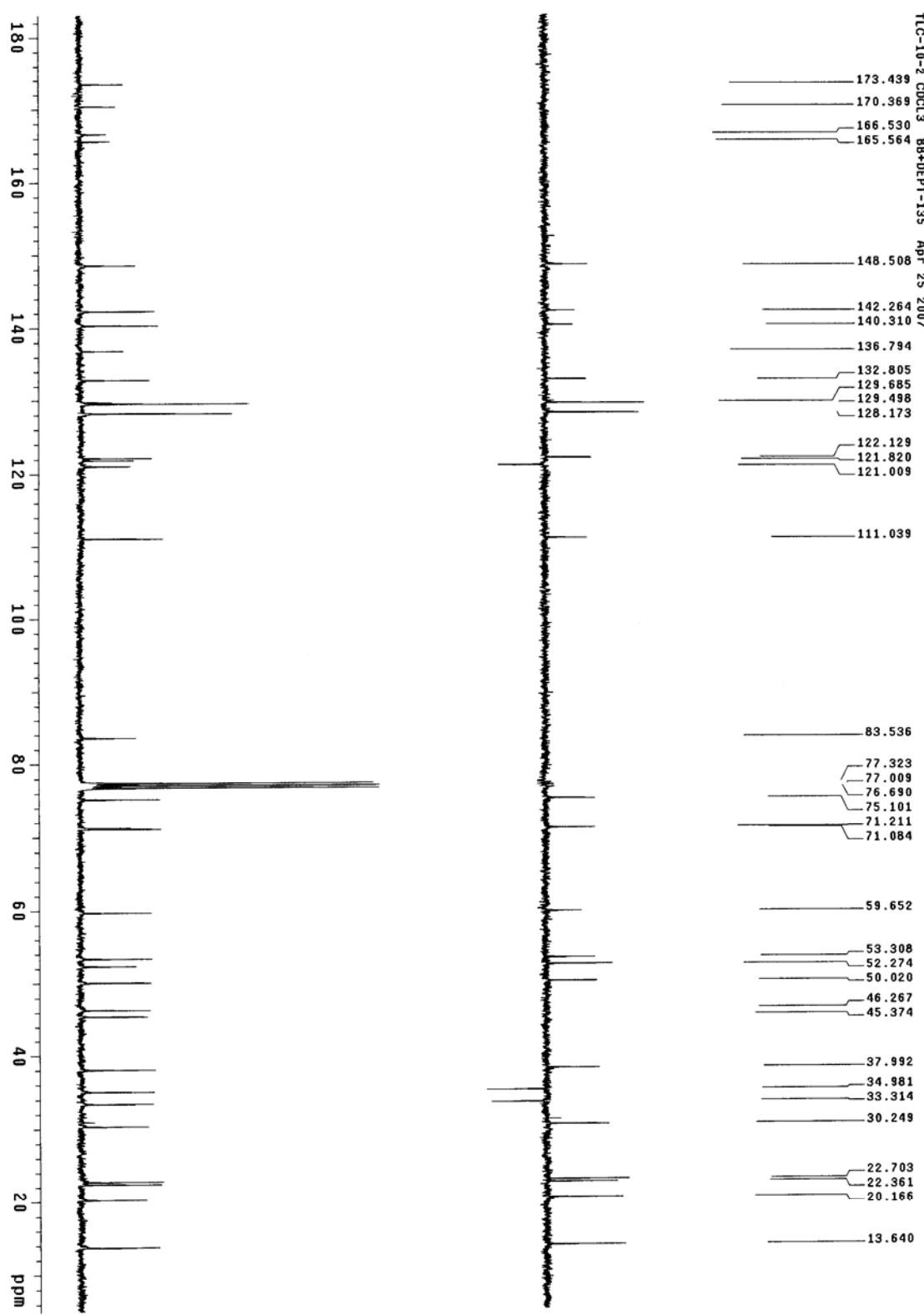
Figure S33. ^{13}C NMR spectrum of amotsangin E (**5**) in CDCl_3 

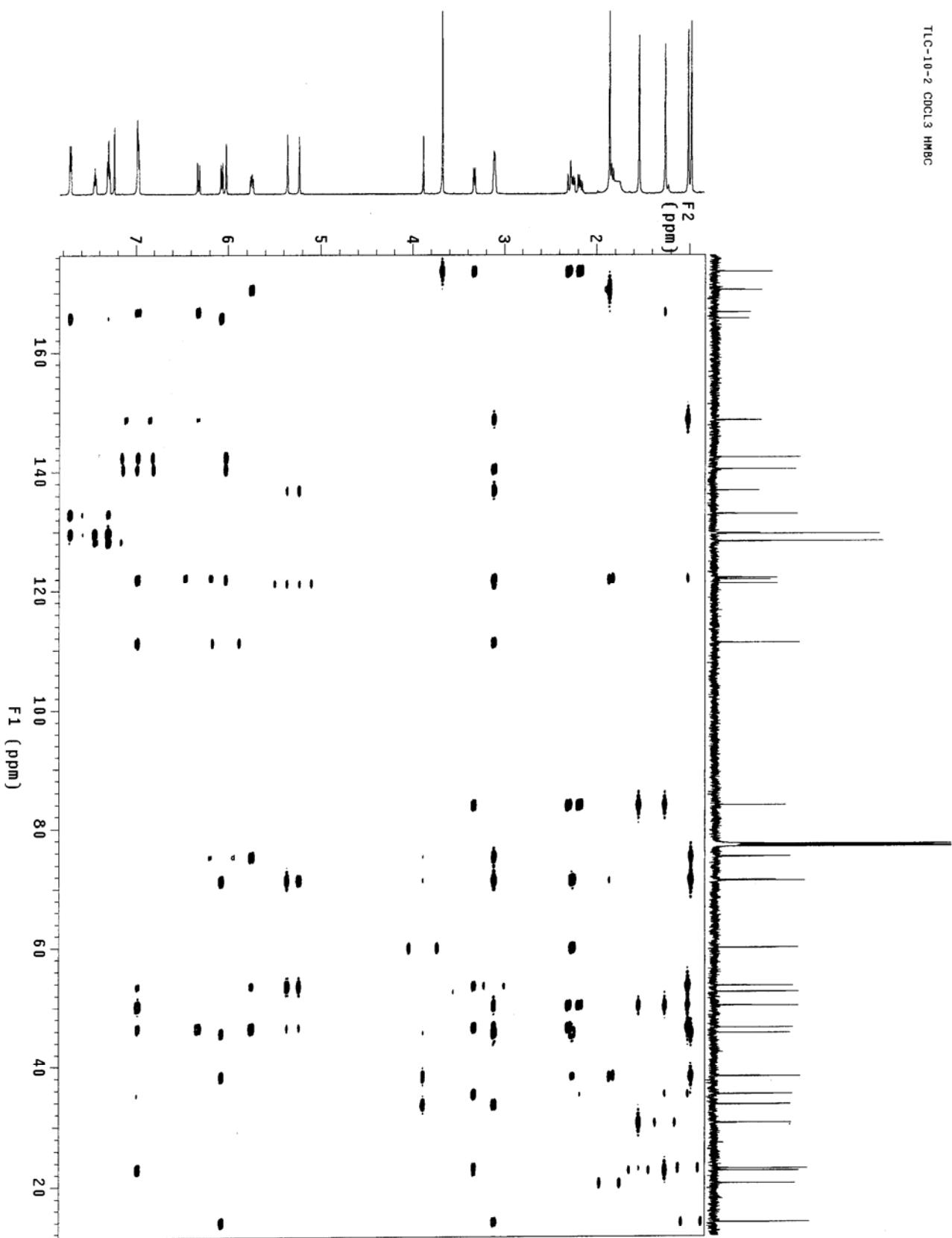
Figure S34. HMBC spectrum of amotsangin E (**5**) in CDCl₃

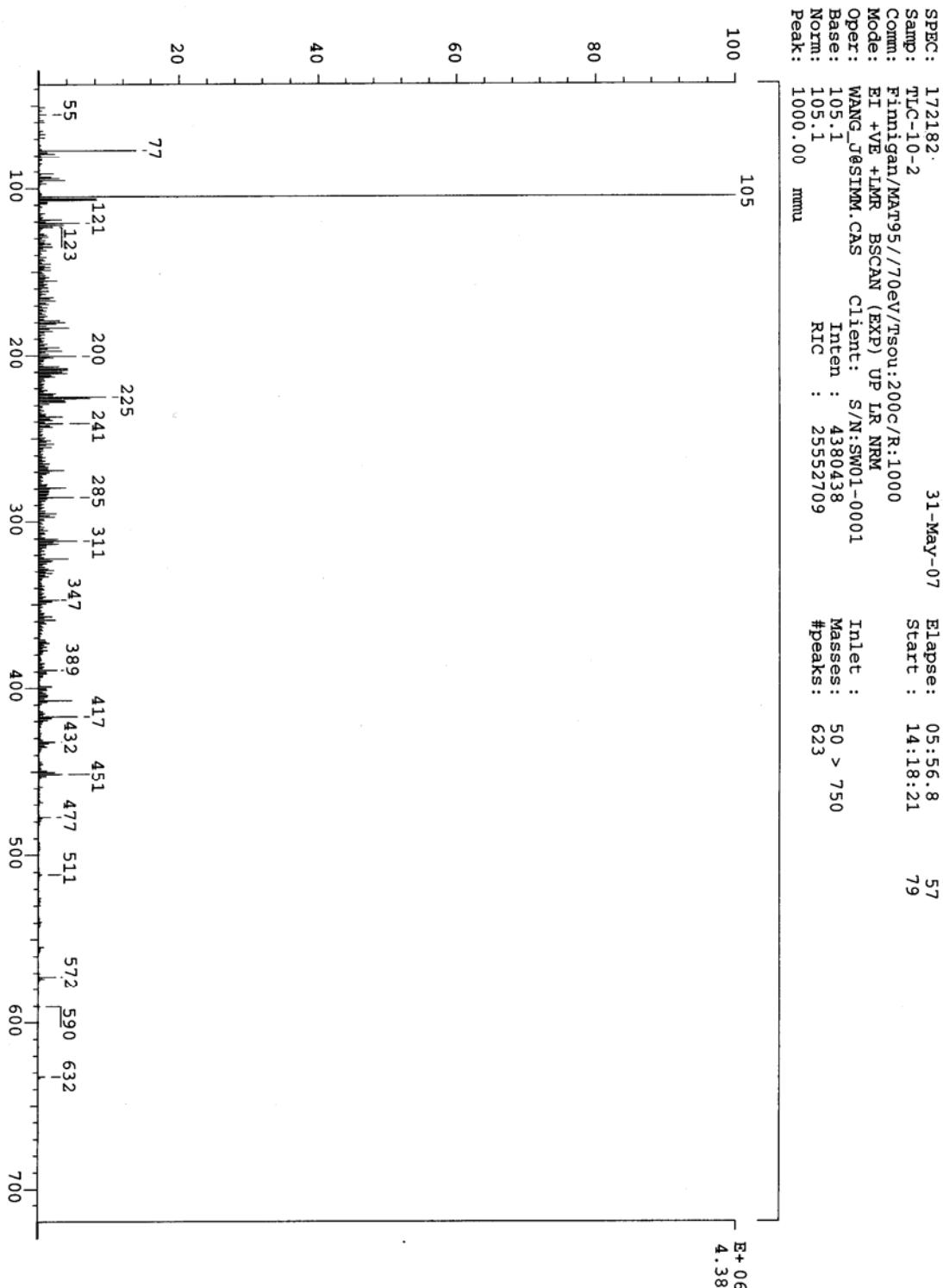
Figure S35. EIMS spectrum of amotsangin E (**5**)

Figure S36. IR spectrum of amotsangin E (5).

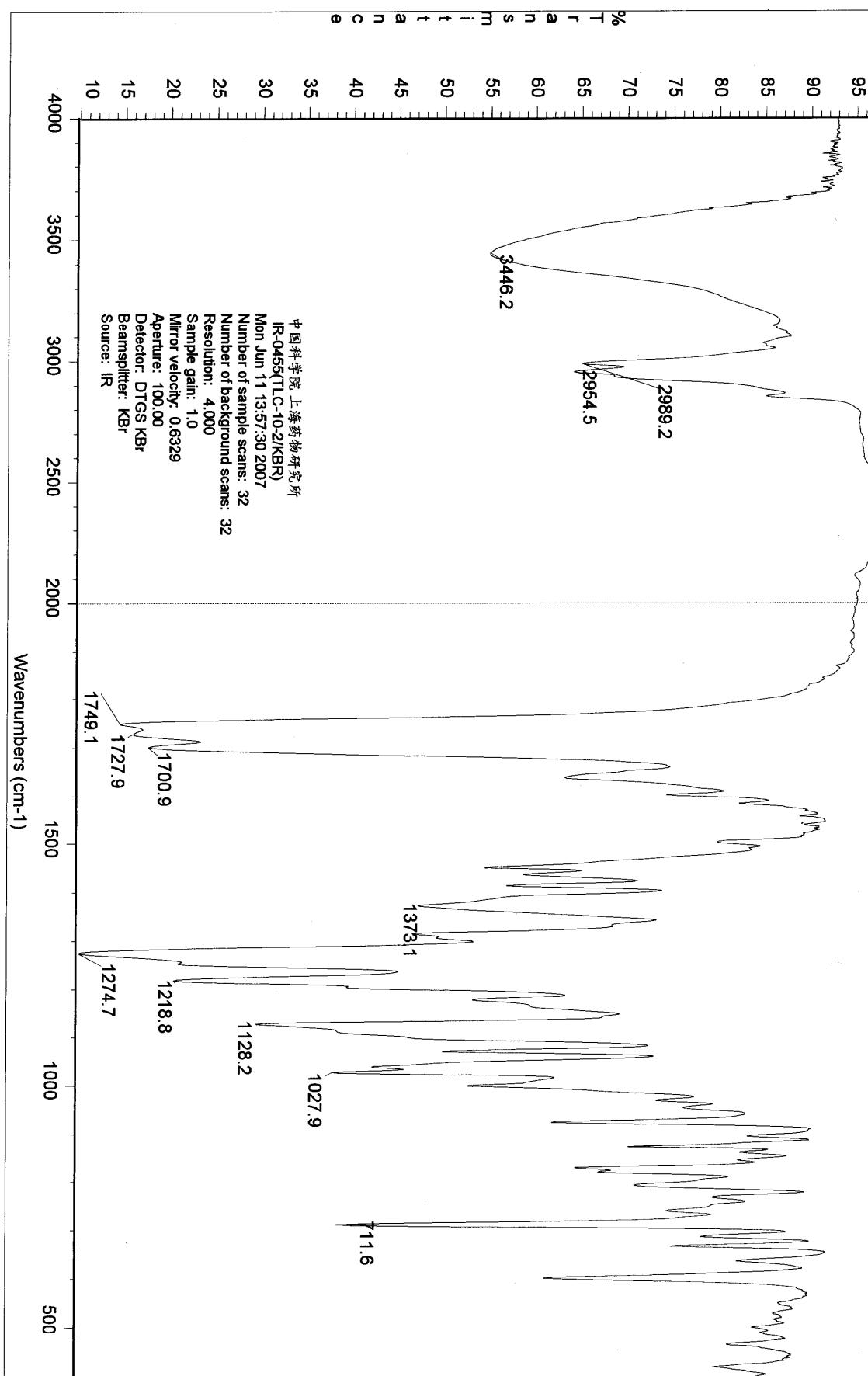


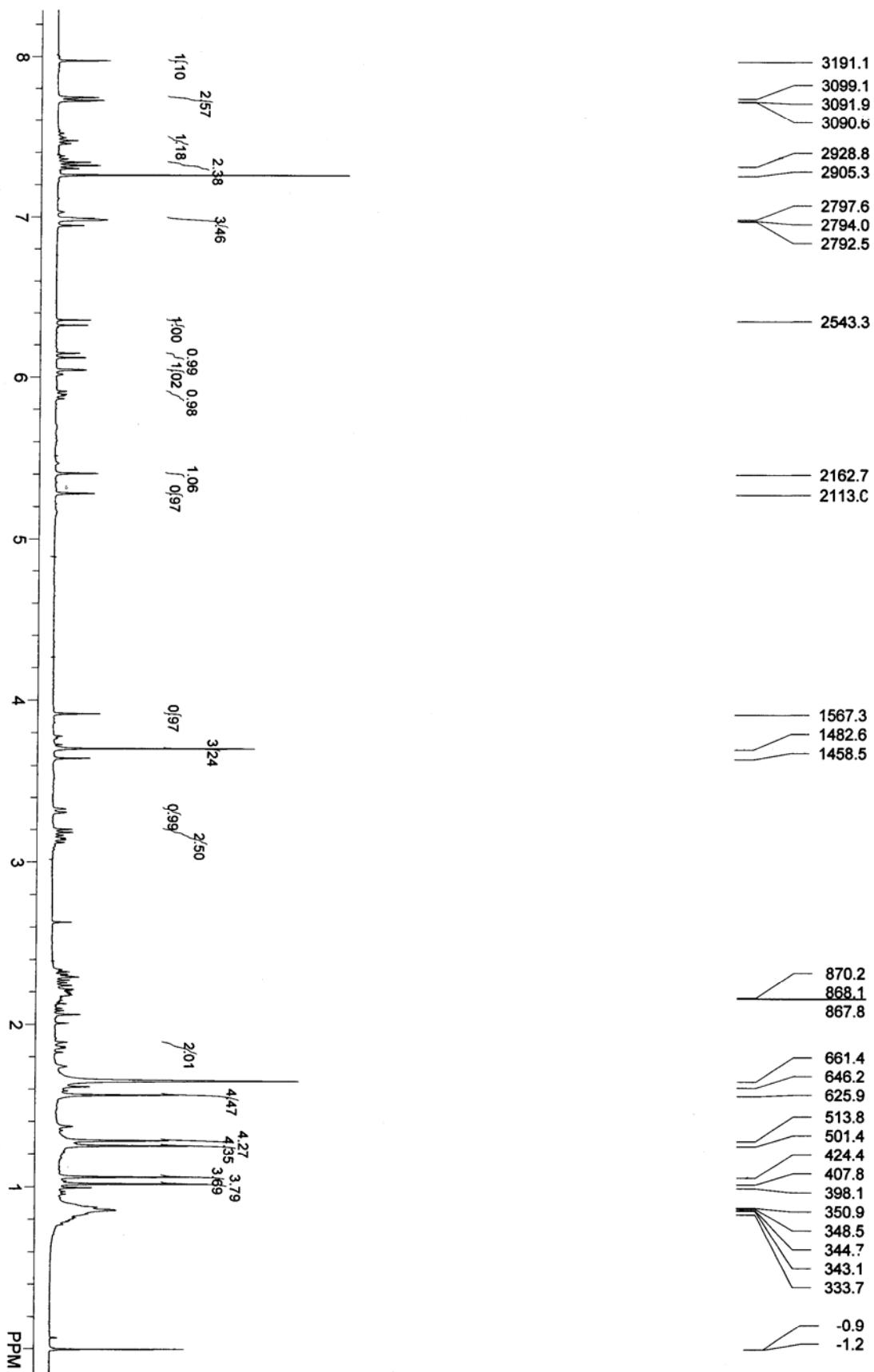
Figure S37. ^1H NMR spectrum of amotsangin F (**6**) in CDCl_3 

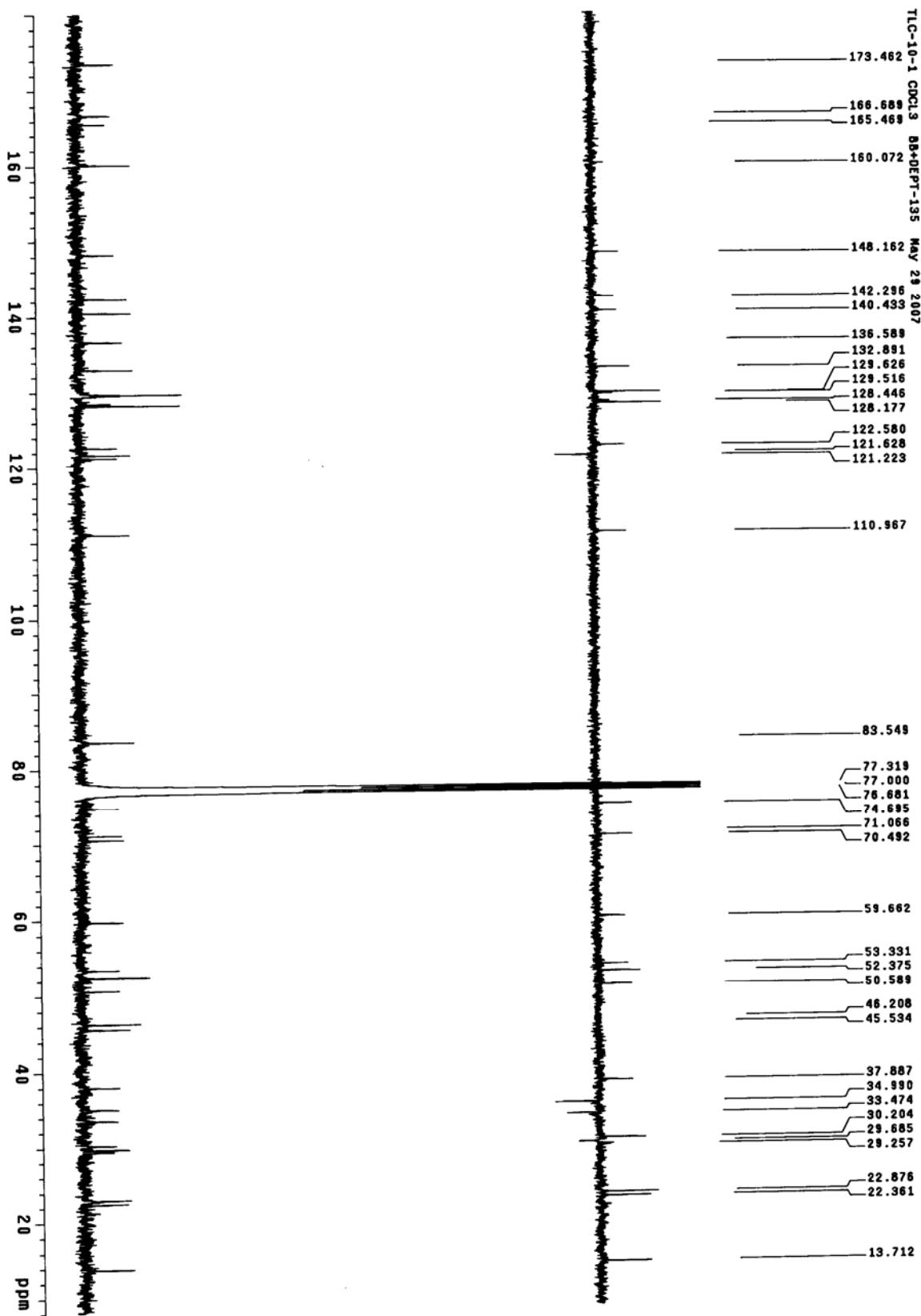
Figure S38. ^{13}C NMR spectrum of amotsangin F (**6**) in CDCl_3 

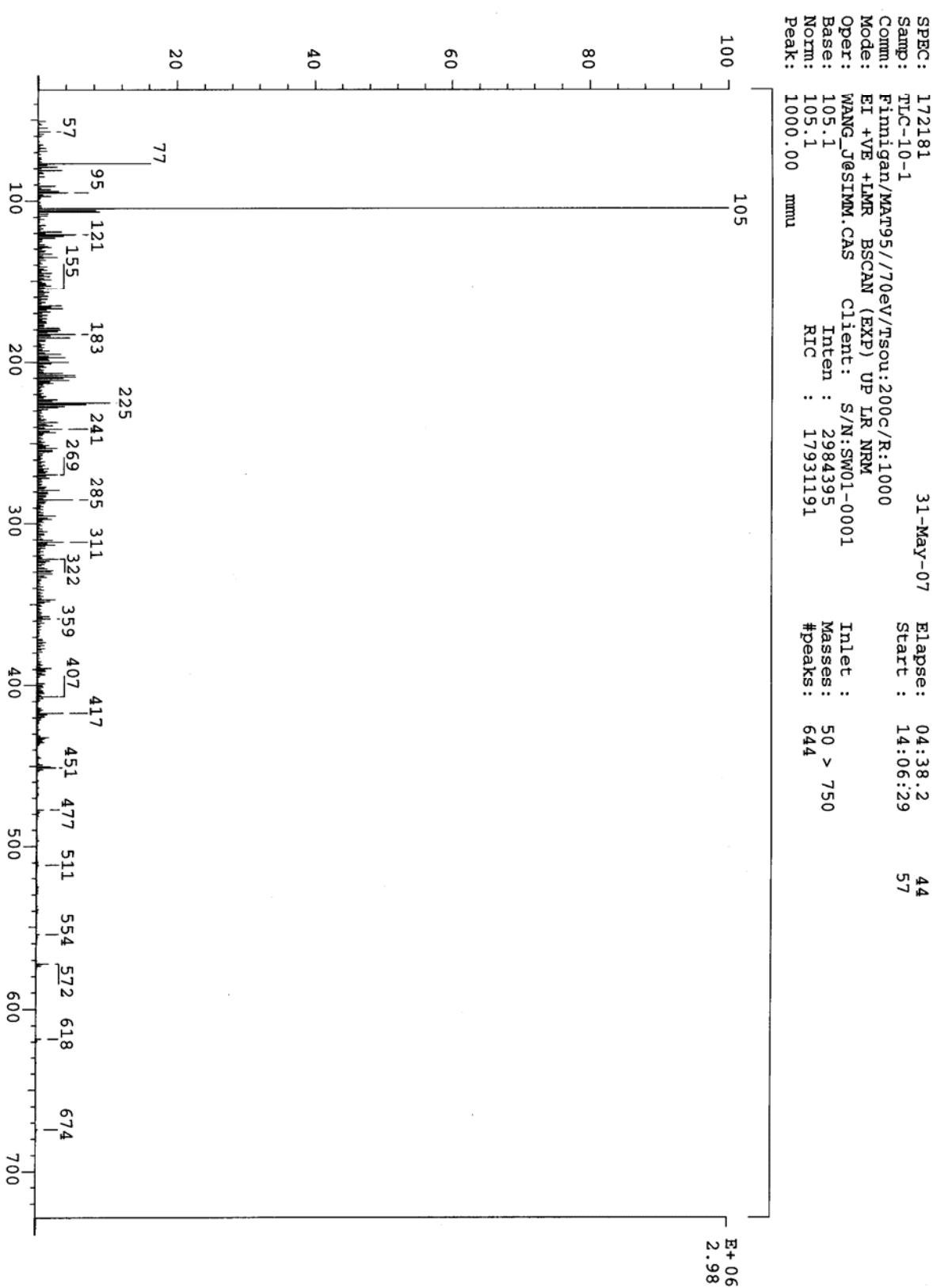
Figure S39. EIMS spectrum of amotsangin F (**6**)

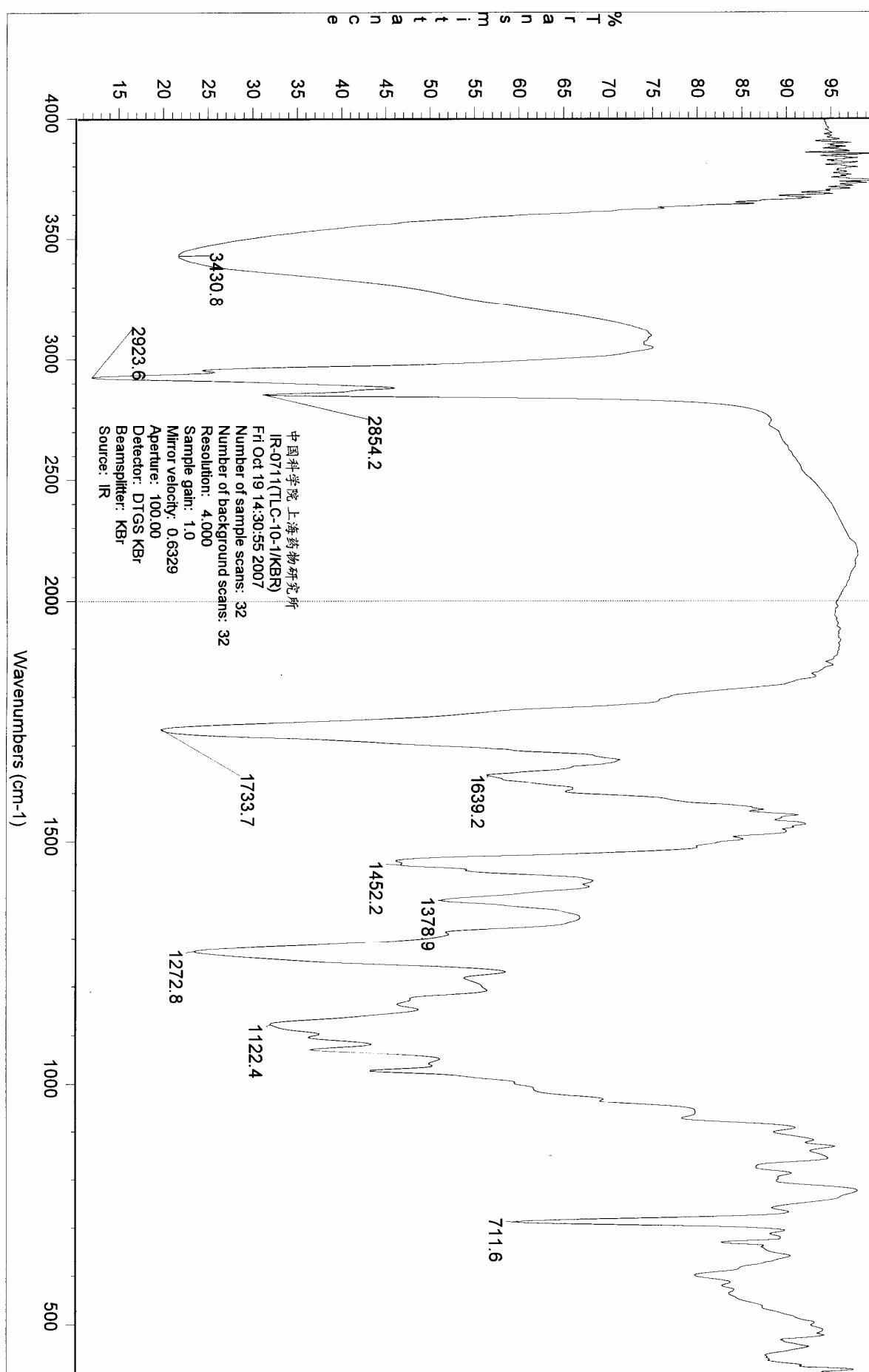
Figure S40. IR spectrum of amotsangin F (**6**)

Figure S41. ^1H NMR spectrum of amotsangin G (**7**) in CDCl_3

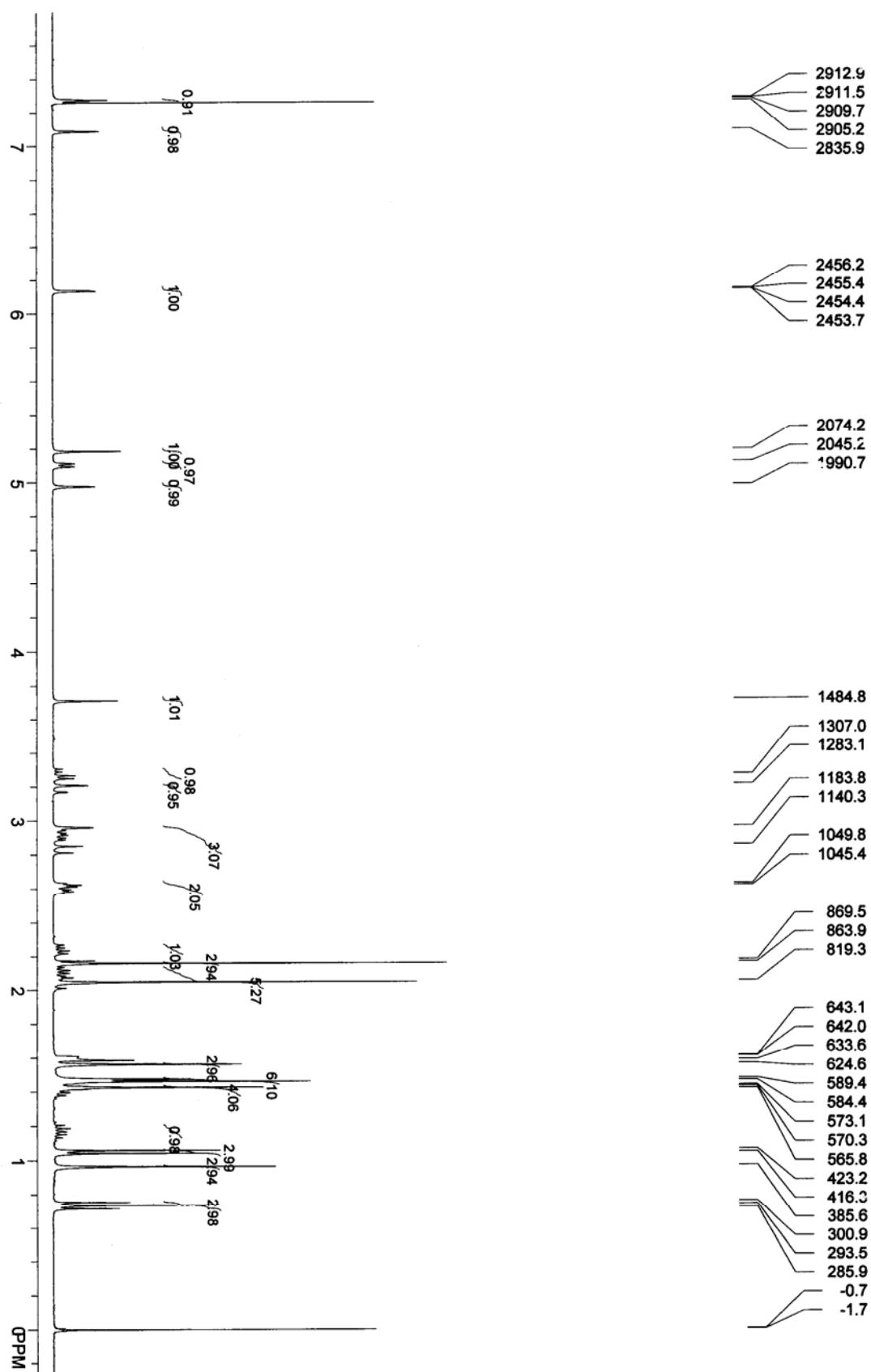


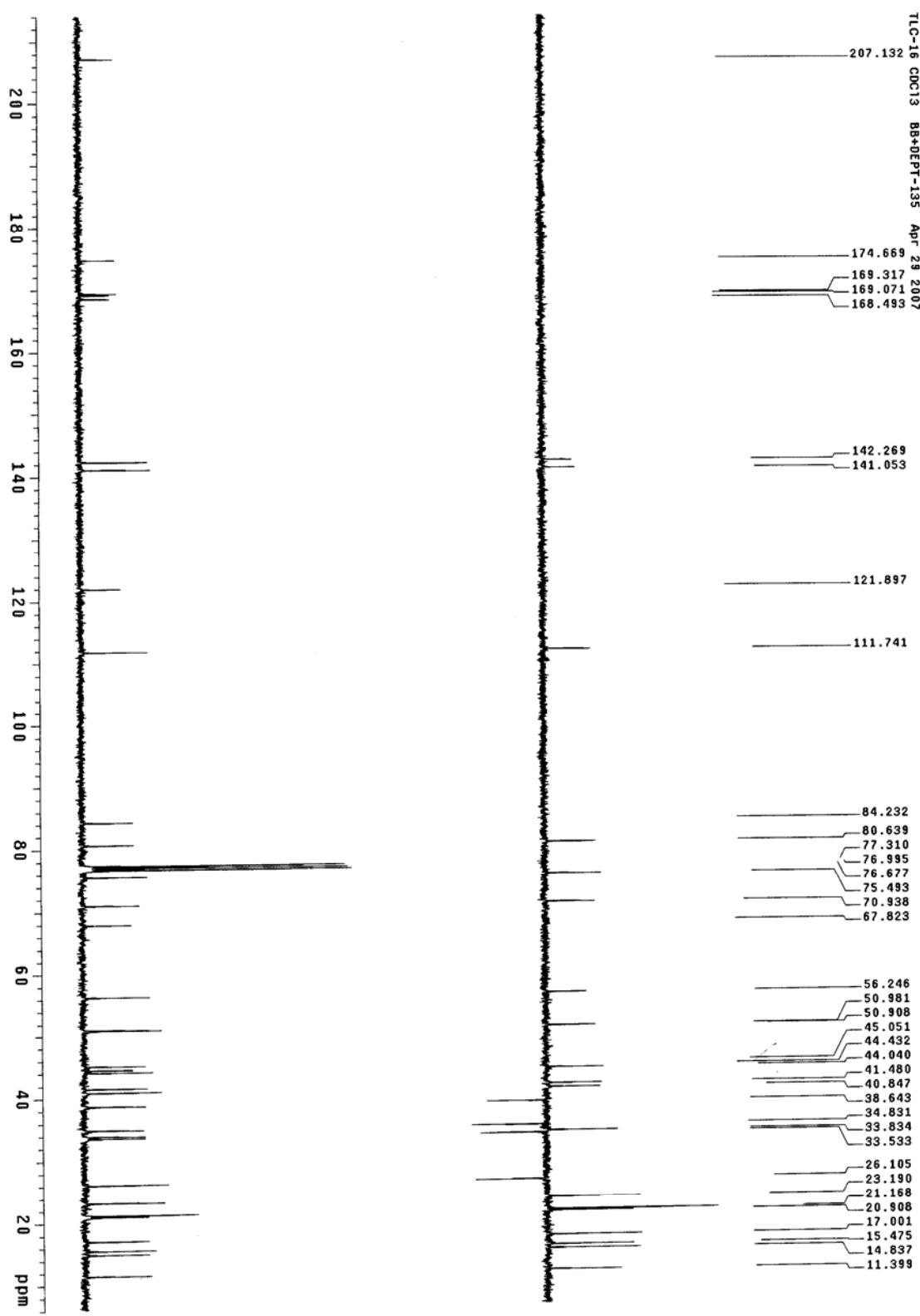
Figure S42. ^{13}C NMR spectrum of amotsangin G (**7**) in CDCl_3 

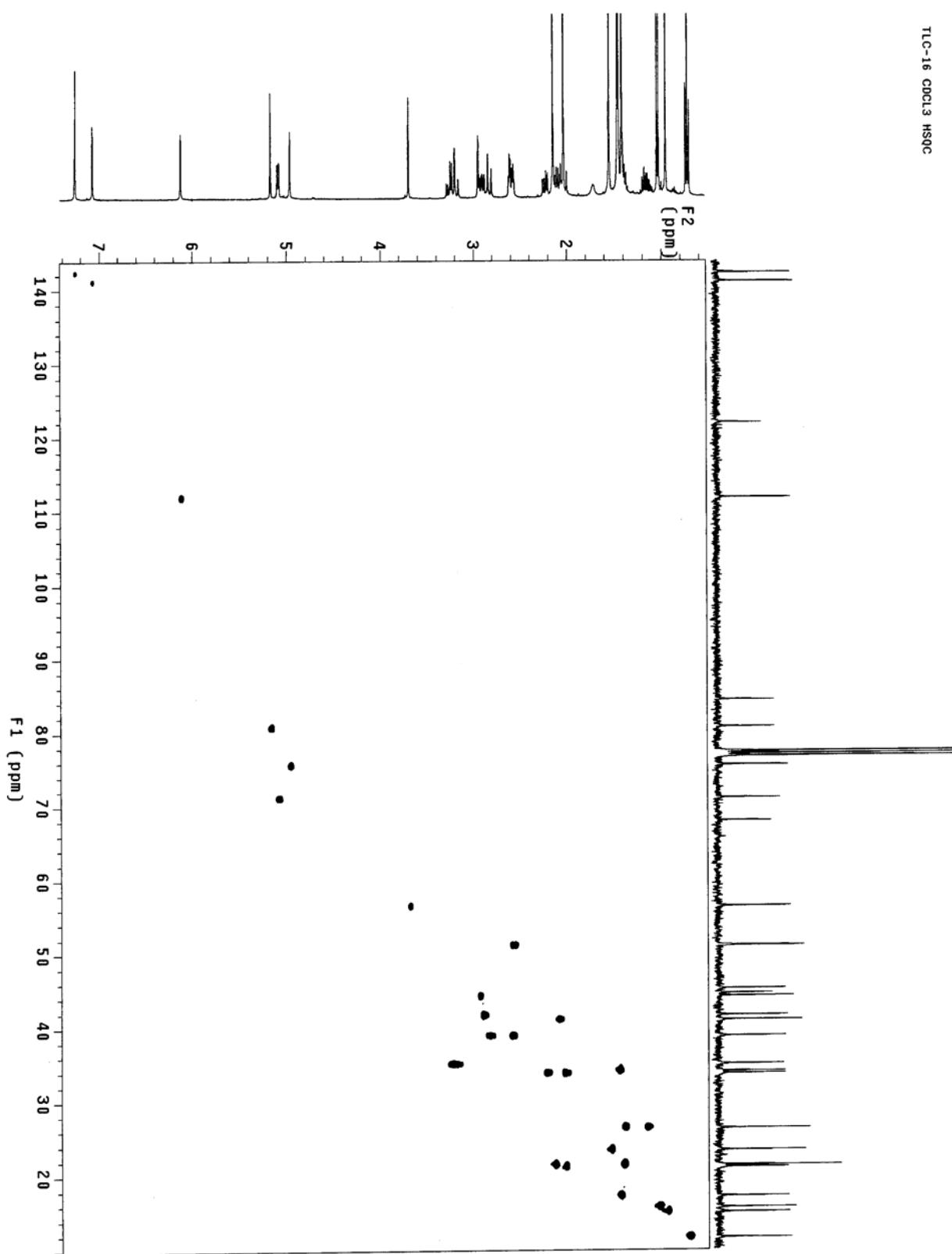
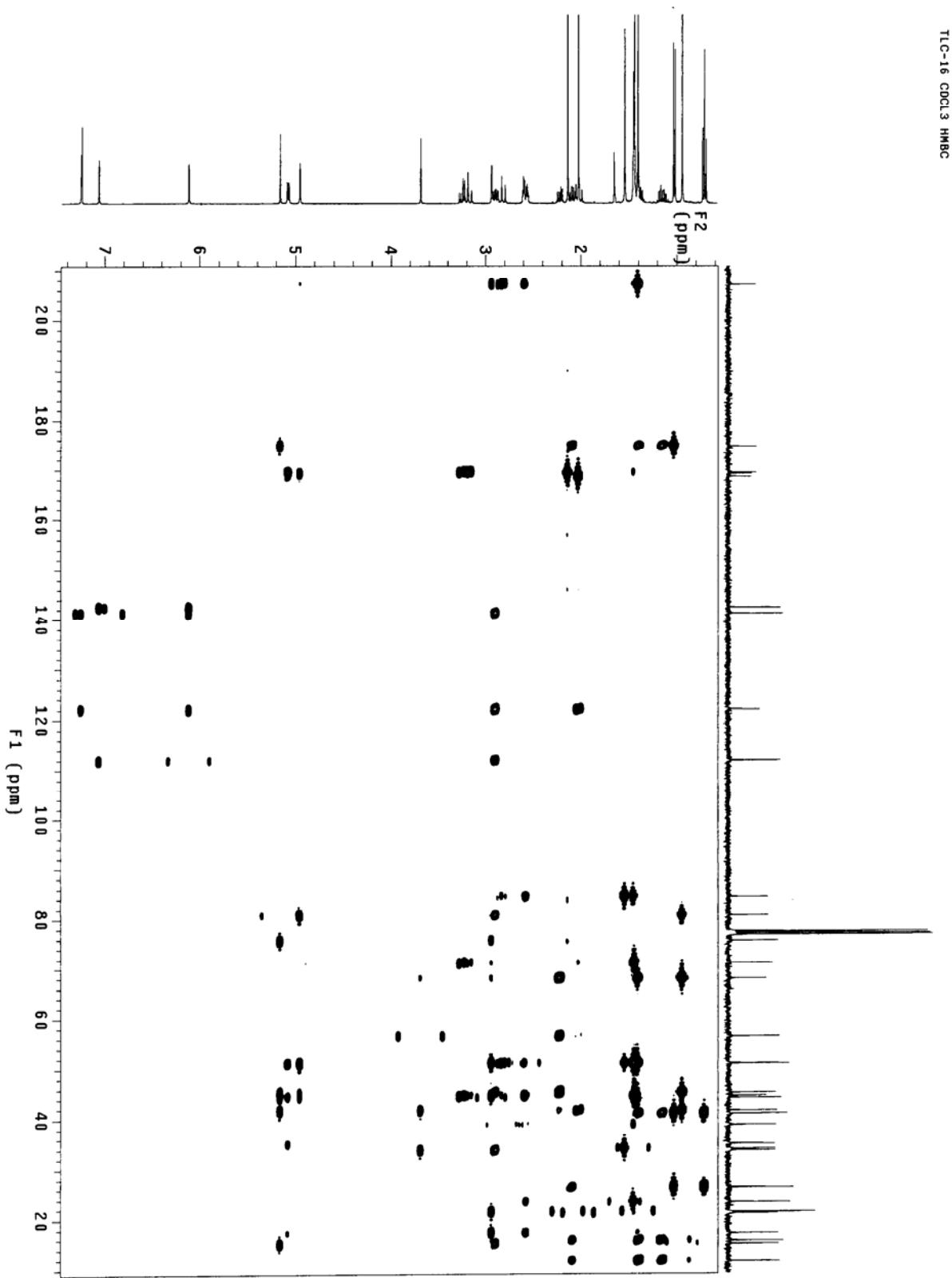
Figure S43. HSQC spectrum of amotsangin G (**7**) in CDCl_3 

Figure S44. HMBC spectrum of amotsangin G (**7**) in CDCl_3 

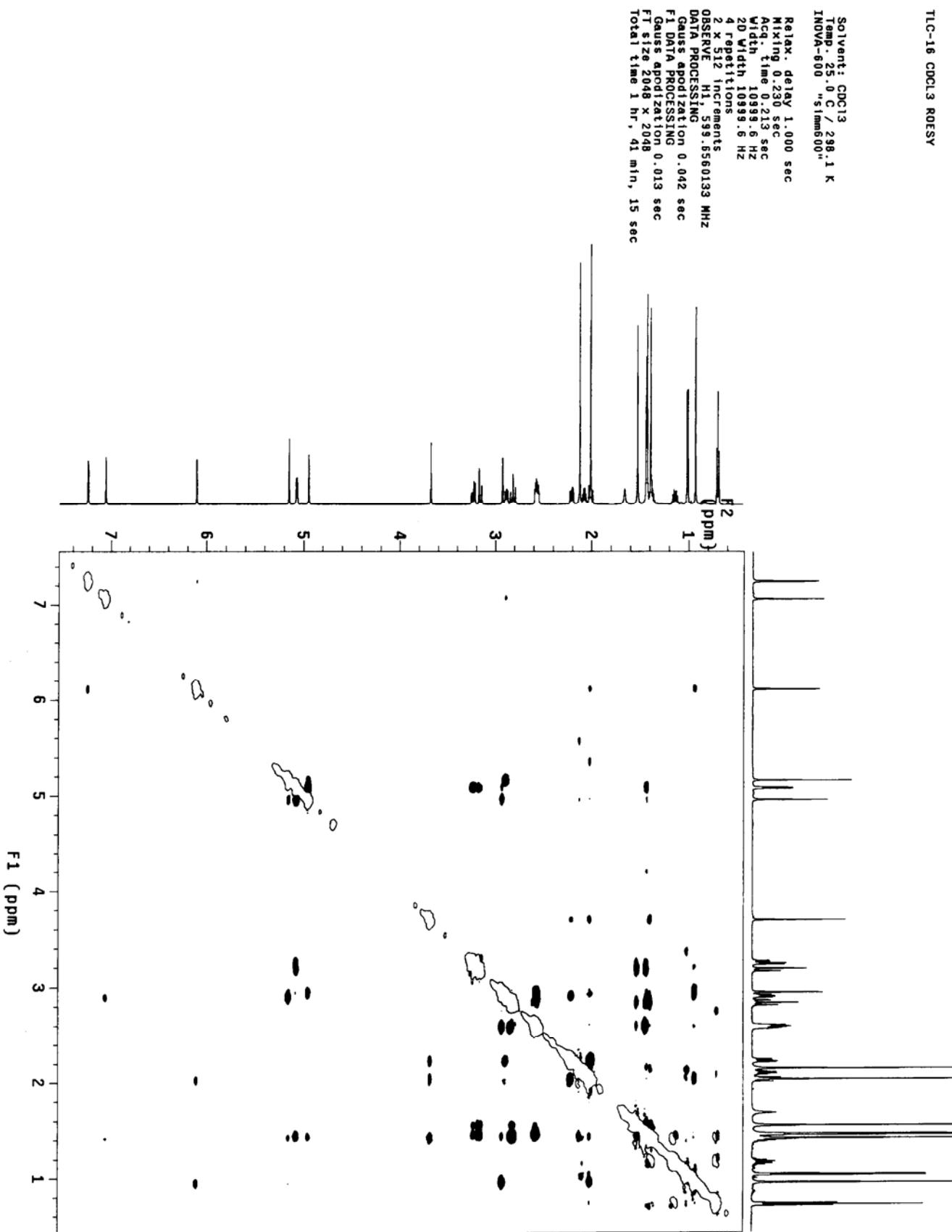
TLC-16 CDCl₃ ROESY

Figure S46. EIMS spectrum of amotsangin G (7)

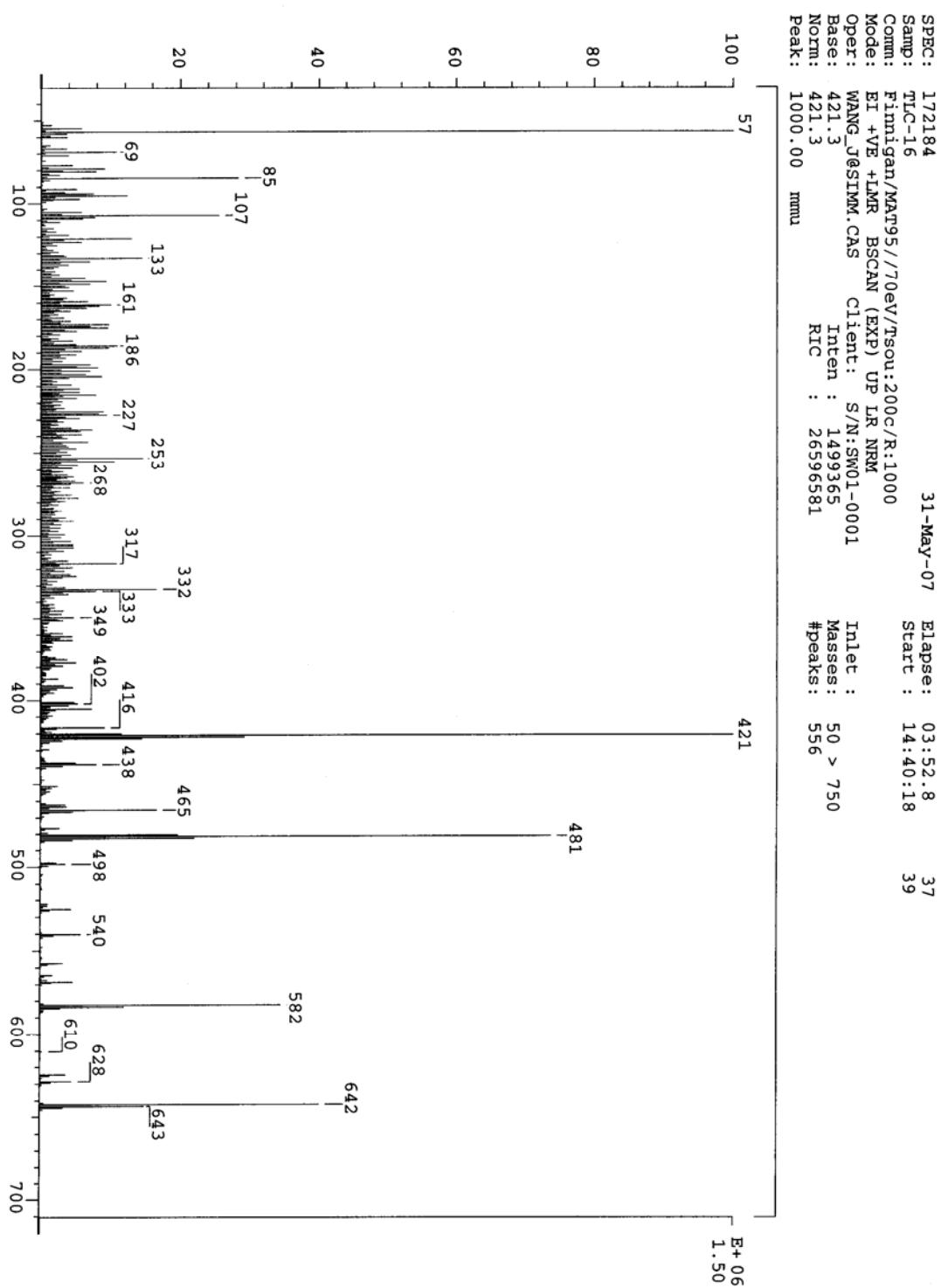


Figure S47. IR spectrum of amotsangin G (7).

