

SUPPORTING INFORMATION FOR:

Total Syntheses and Biological Evaluation of the *Ganoderma lucidum* Alkaloids Lucidimines B and C

Yongsheng Chen[†] and Ping Lan^{†,}*

[†]Department of Food Science and Engineering, Jinan University, Guangzhou, 510632, China

Corresponding Author

**Tel.: 86-20-85221367. Fax: 86-20-85224766. E-mail: ping.lan@jnu.edu.cn*

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—8.32

7.49
7.48

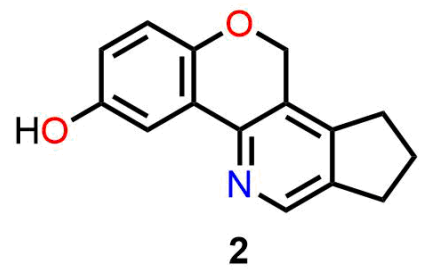
6.81
6.79
6.76
6.75
6.73
6.73

—5.12

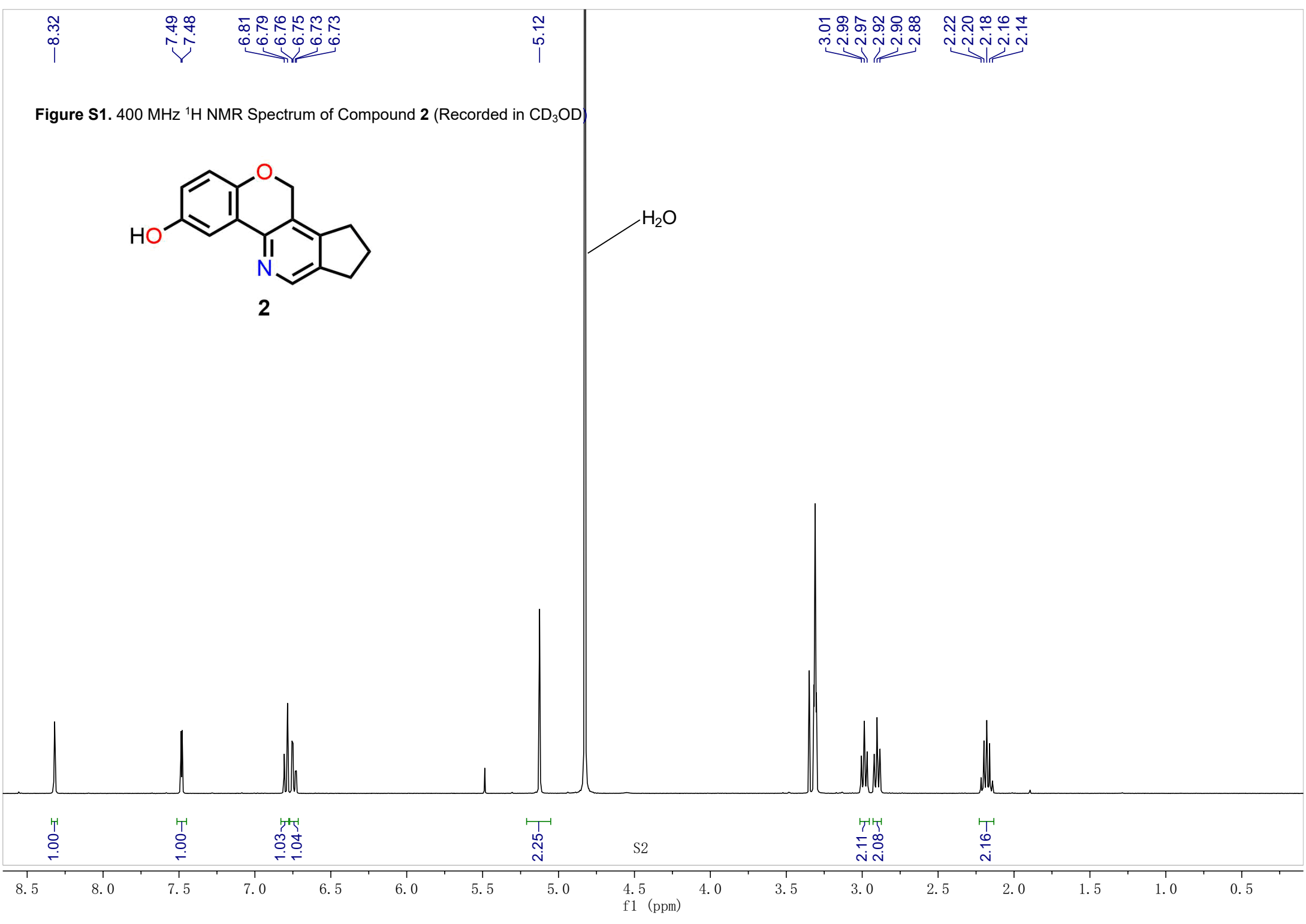
3.01
2.99
2.97
2.92
2.90
2.88

2.22
2.20
2.18
2.16
2.14

Figure S1. 400 MHz ¹H NMR Spectrum of Compound 2 (Recorded in CD₃OD)



H₂O



153.58
151.33
150.76
147.32
144.97
141.57

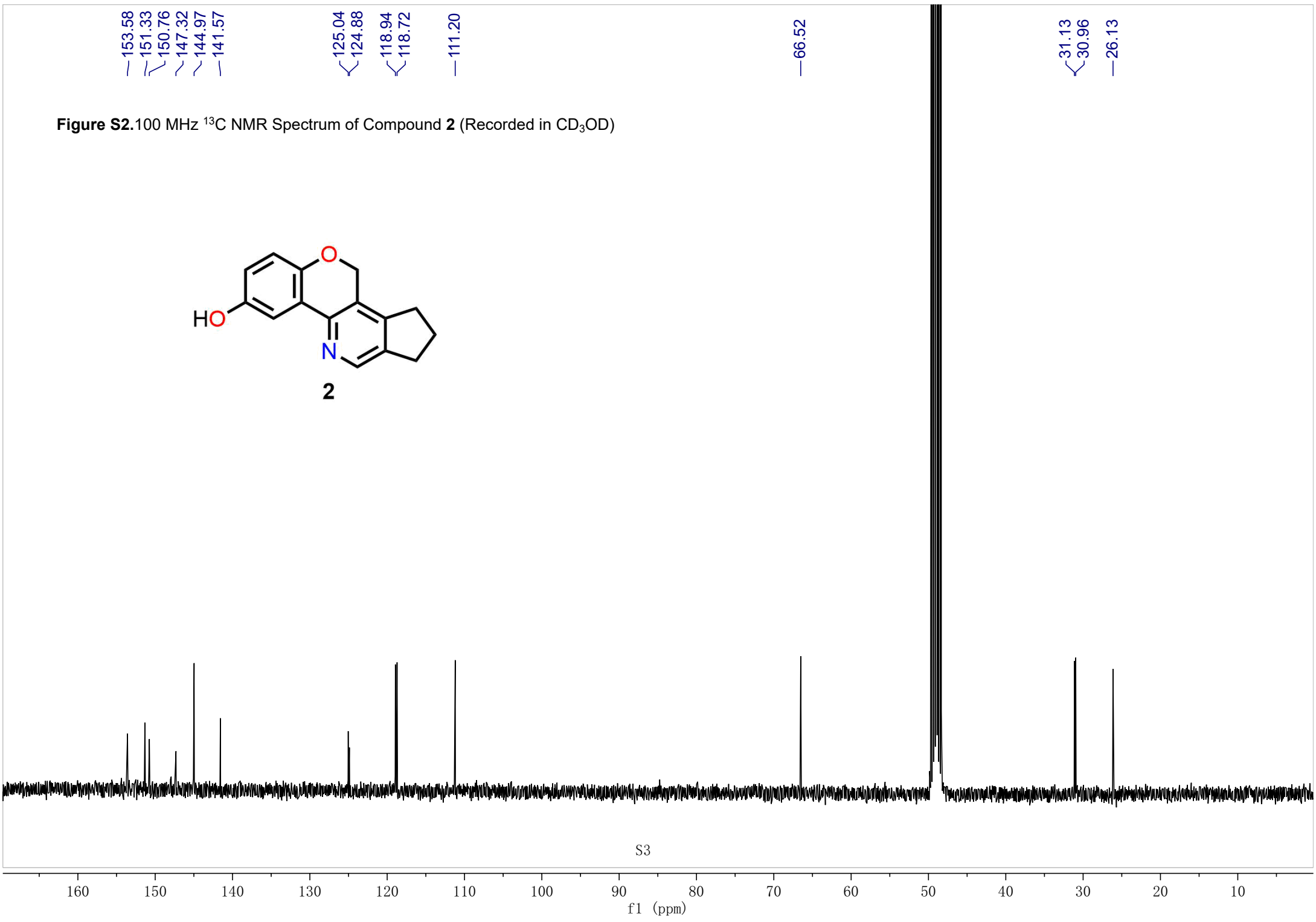
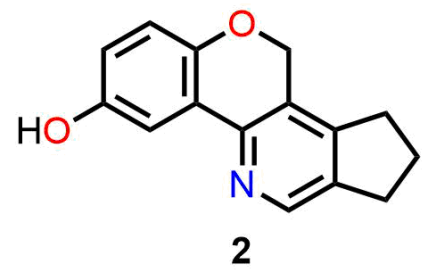
125.04
124.88
118.94
118.72

111.20

66.52

31.13
30.96
26.13

Figure S2. 100 MHz ¹³C NMR Spectrum of Compound 2 (Recorded in CD₃OD)



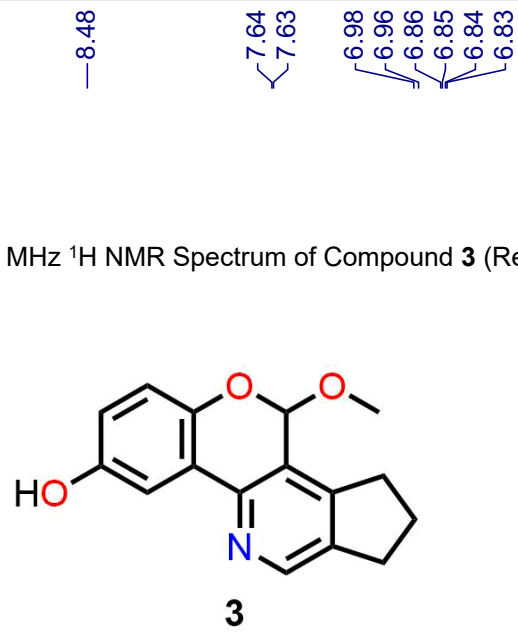
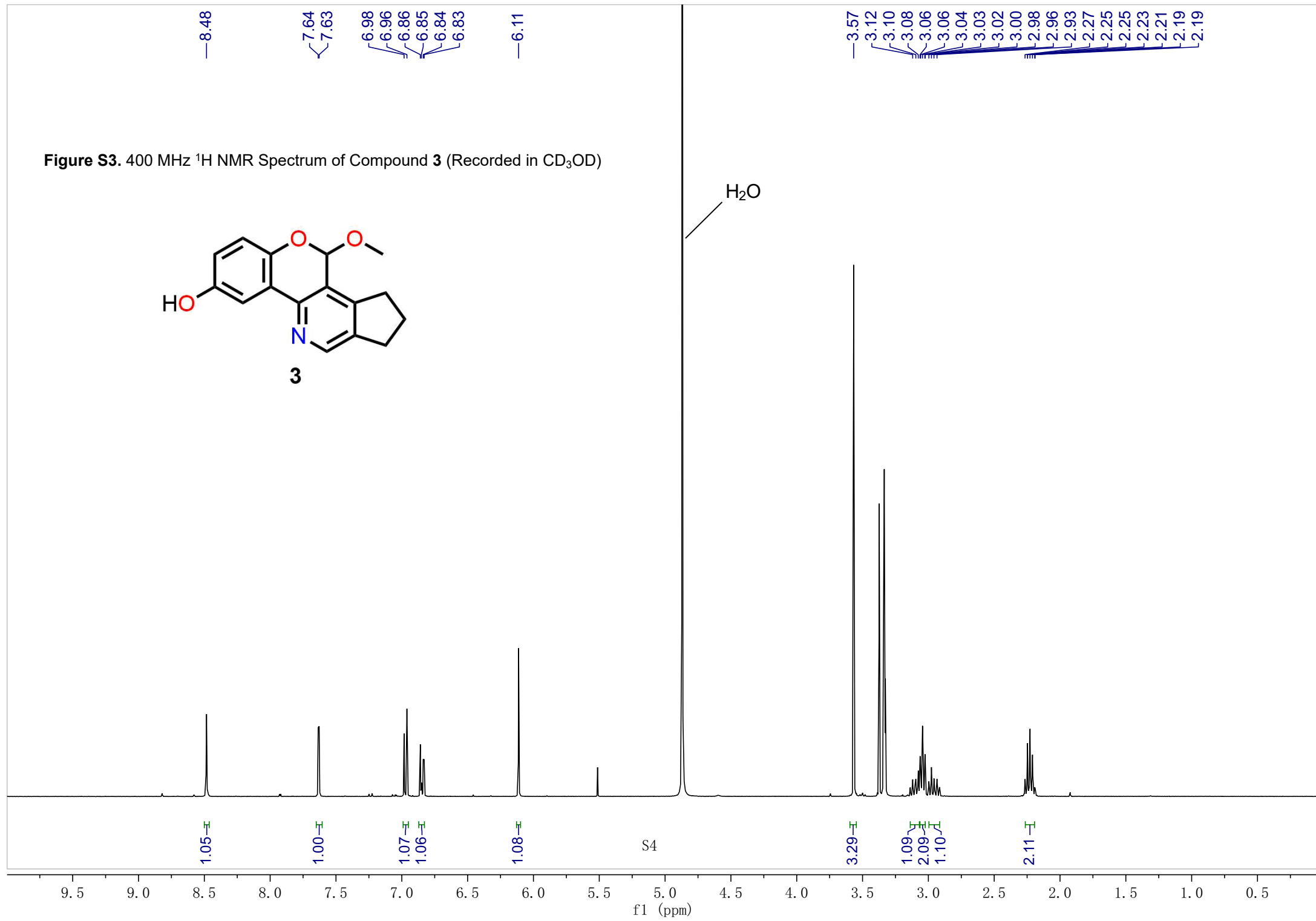


Figure S3. 400 MHz ¹H NMR Spectrum of Compound **3** (Recorded in CD₃OD)



153.71
153.39

146.71
146.67
145.96
141.81

123.58
123.47
119.57
119.02

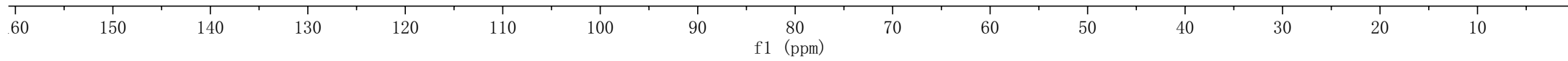
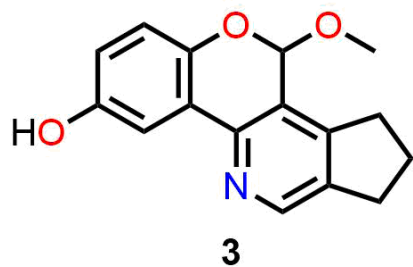
110.83

98.13

55.92

31.17
30.81
26.09

Figure S4. 100 MHz ^{13}C NMR Spectrum of Compound **3** (Recorded in CD_3OD)



S5

Figure S5. 400 MHz ¹H NMR Spectrum of Compound 7 (Recorded in CDCl₃)

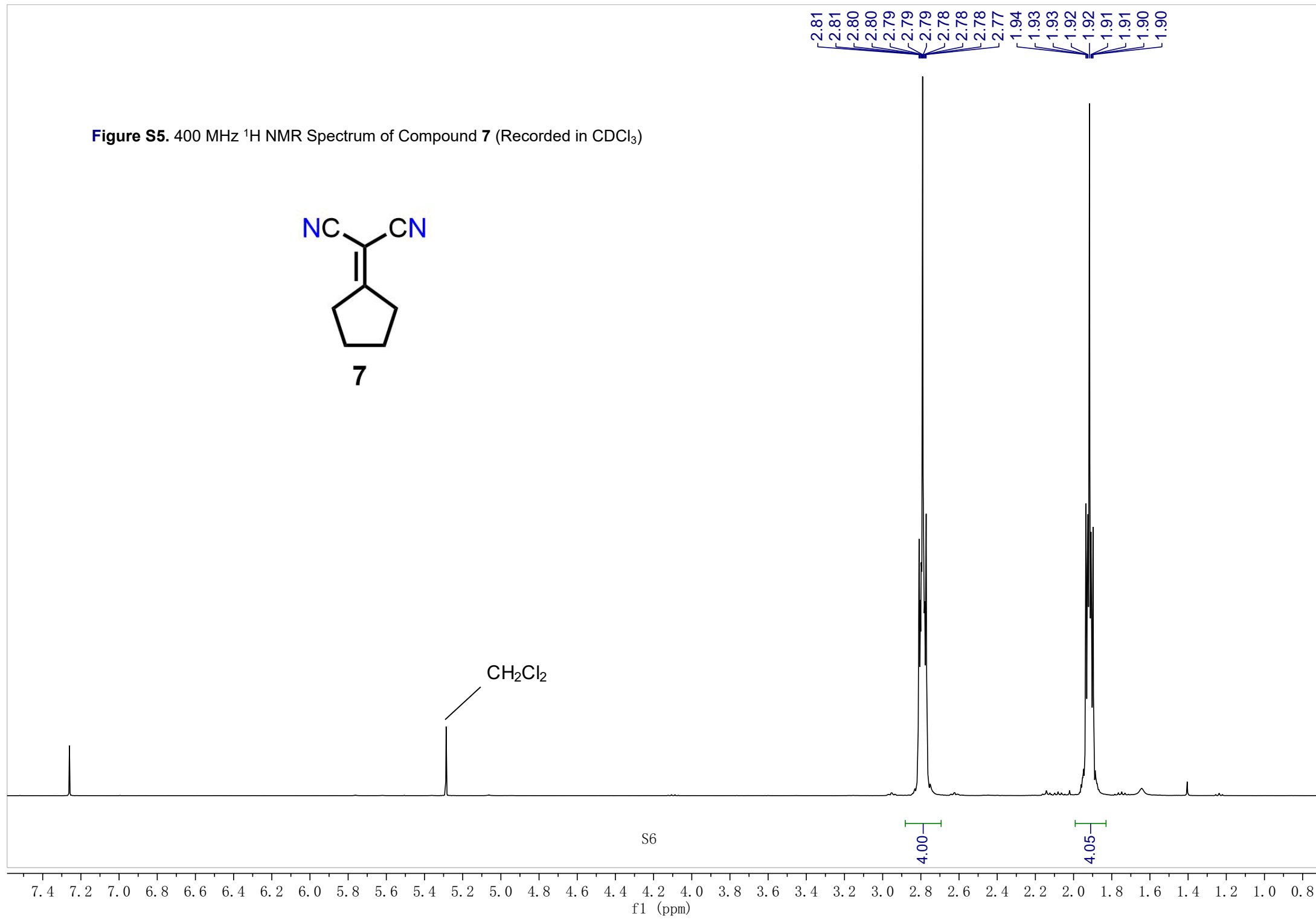
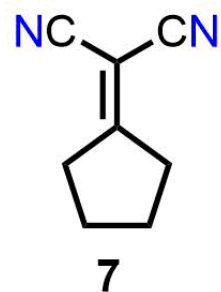
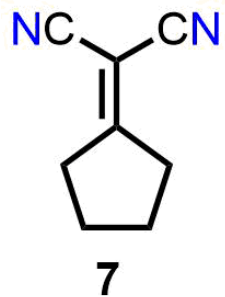


Figure S6. 100 MHz ^{13}C NMR Spectrum of Compound 7 (Recorded in CDCl_3)



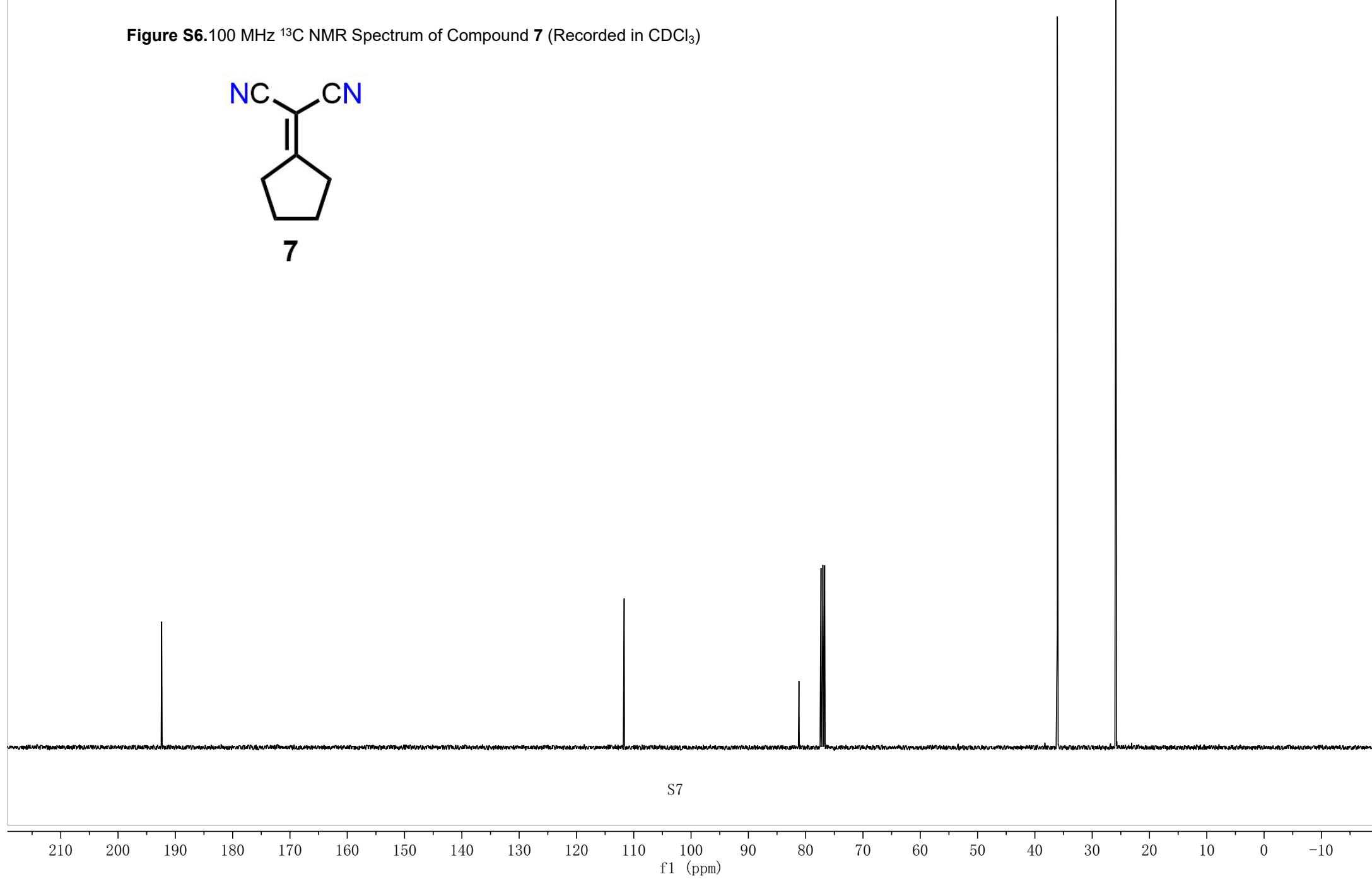
— 192.39

— 111.67

— 81.17

— 36.07

— 25.88



S7

Figure S7. 400 MHz ¹H NMR Spectrum of Compound **9** (Recorded in CDCl₃)

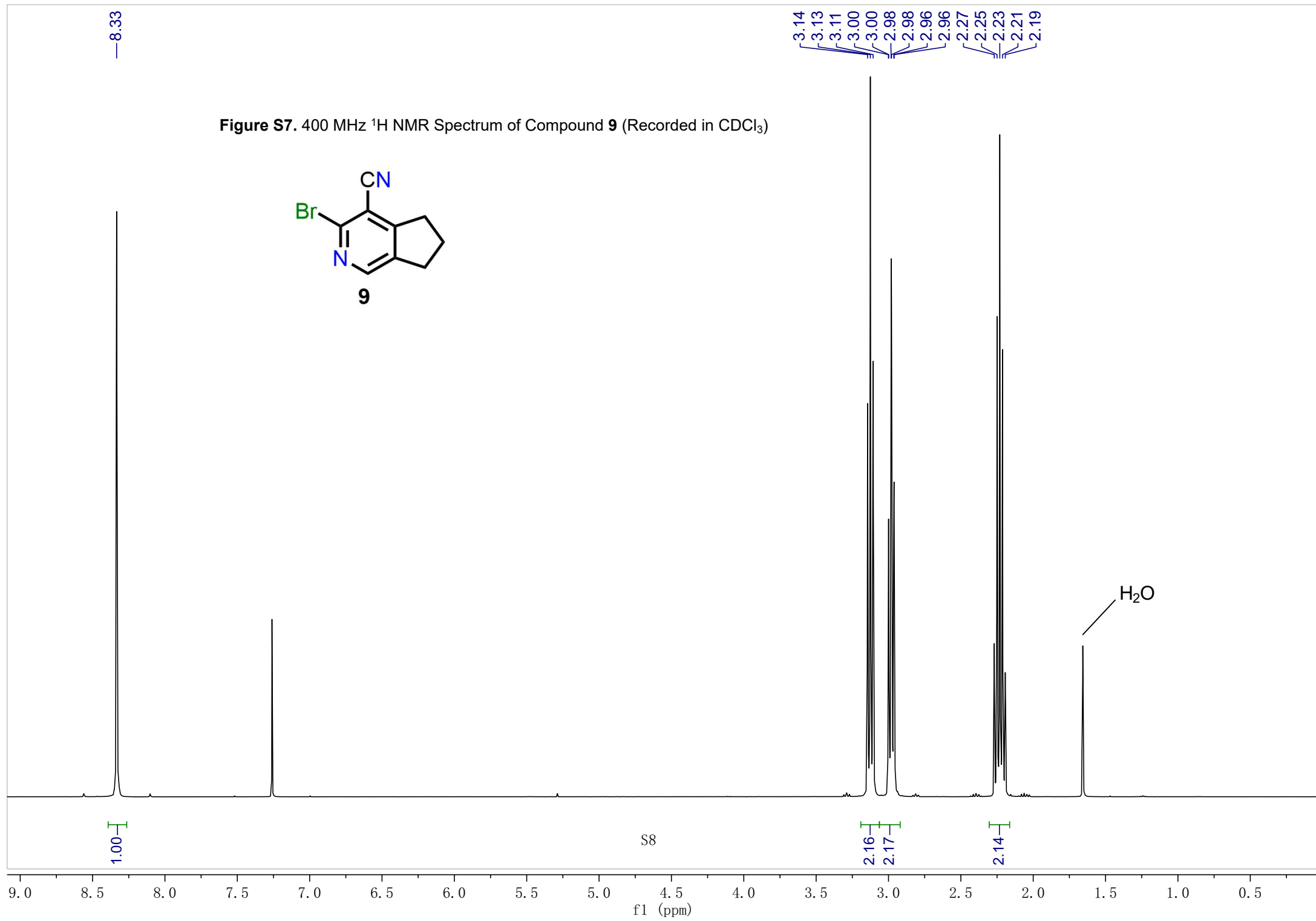
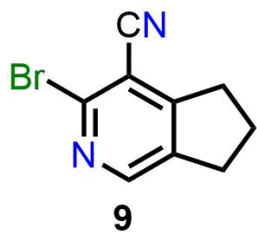
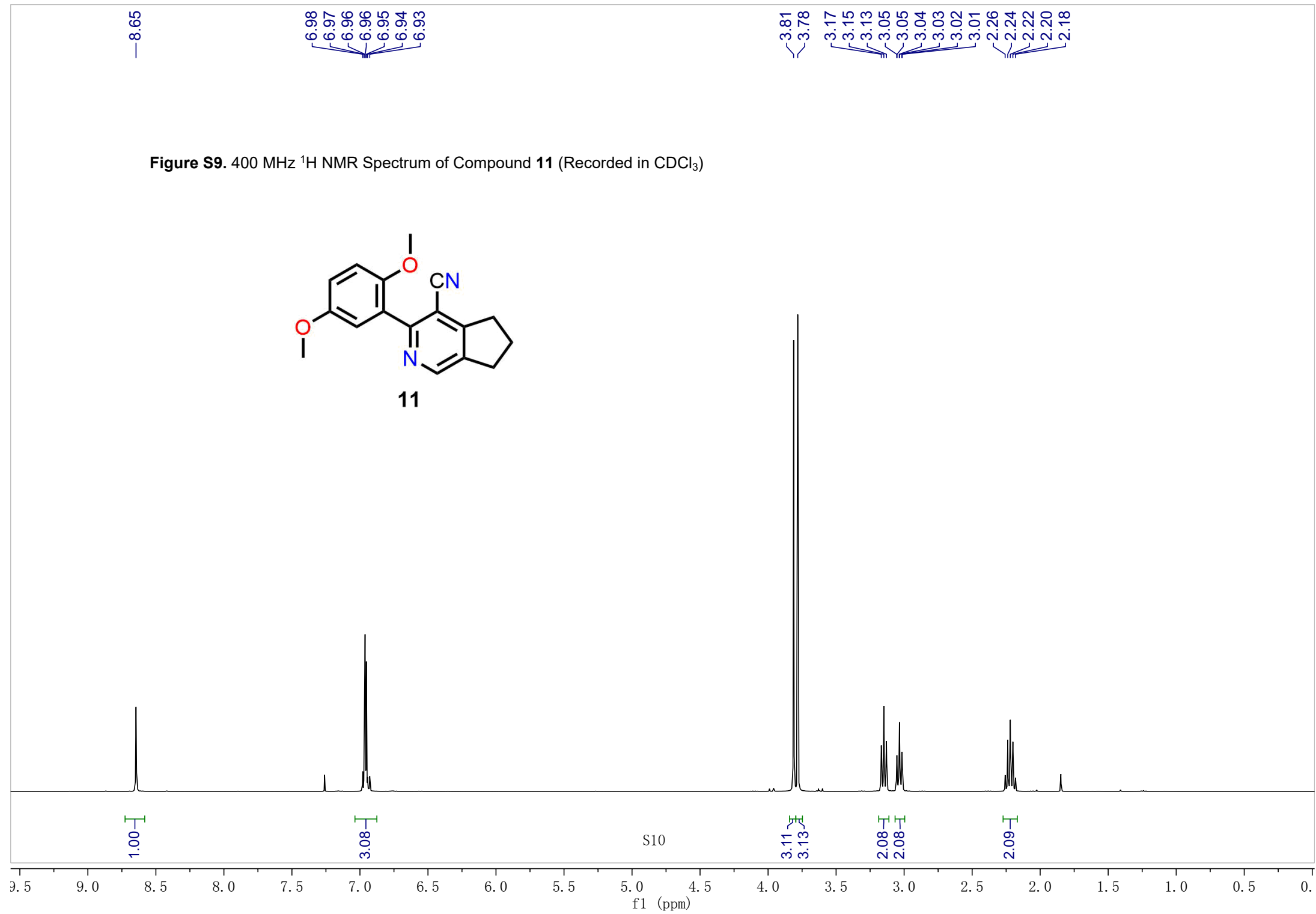
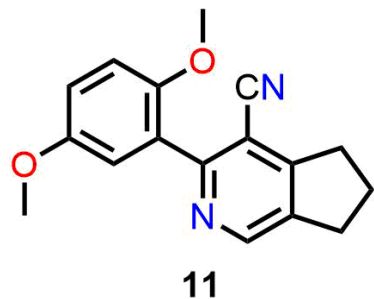


Figure S9. 400 MHz ¹H NMR Spectrum of Compound 11 (Recorded in CDCl₃)



158.37
156.75
153.54
150.80
147.73

138.65

127.57

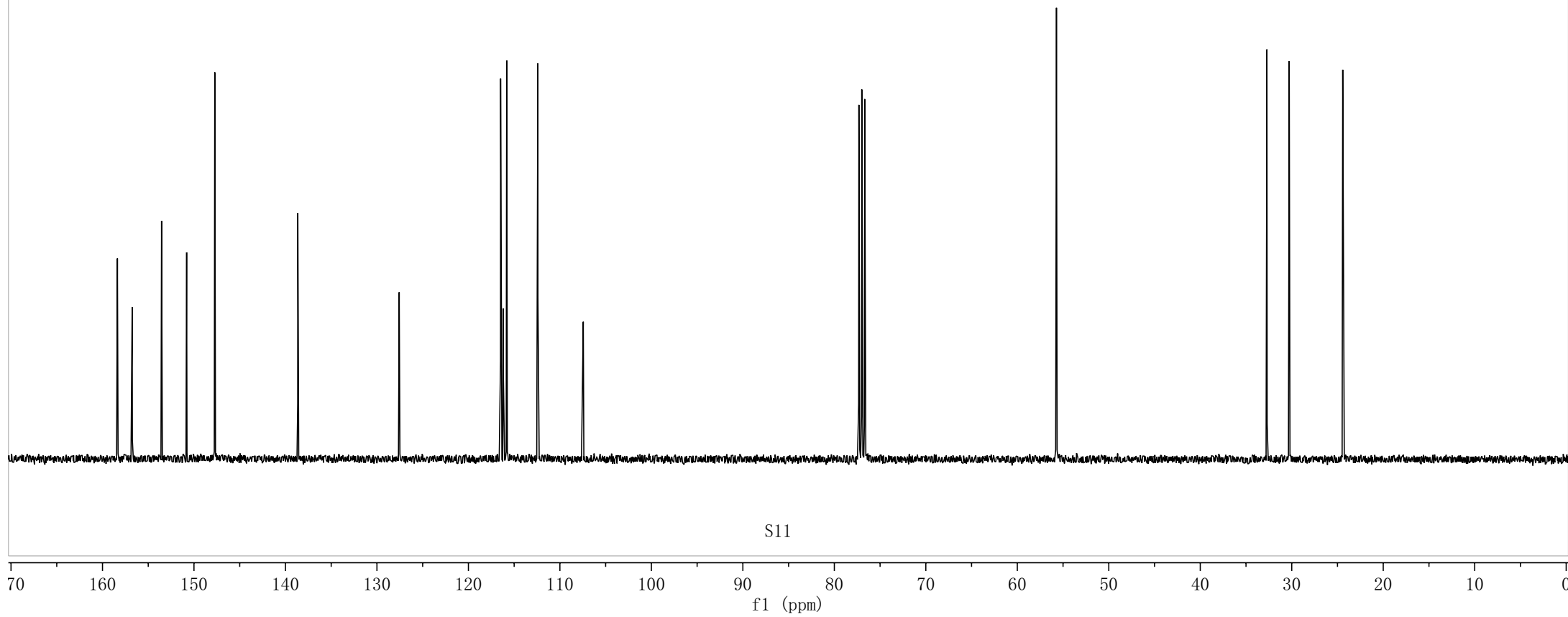
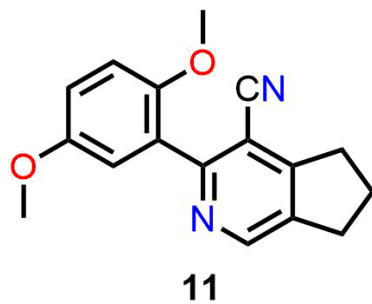
116.48
116.18
115.81
112.41
107.44

55.76
55.72

32.71
30.27

24.43

Figure S10. 100 MHz ¹³C NMR Spectrum of Compound 11 (Recorded in CDCl₃)

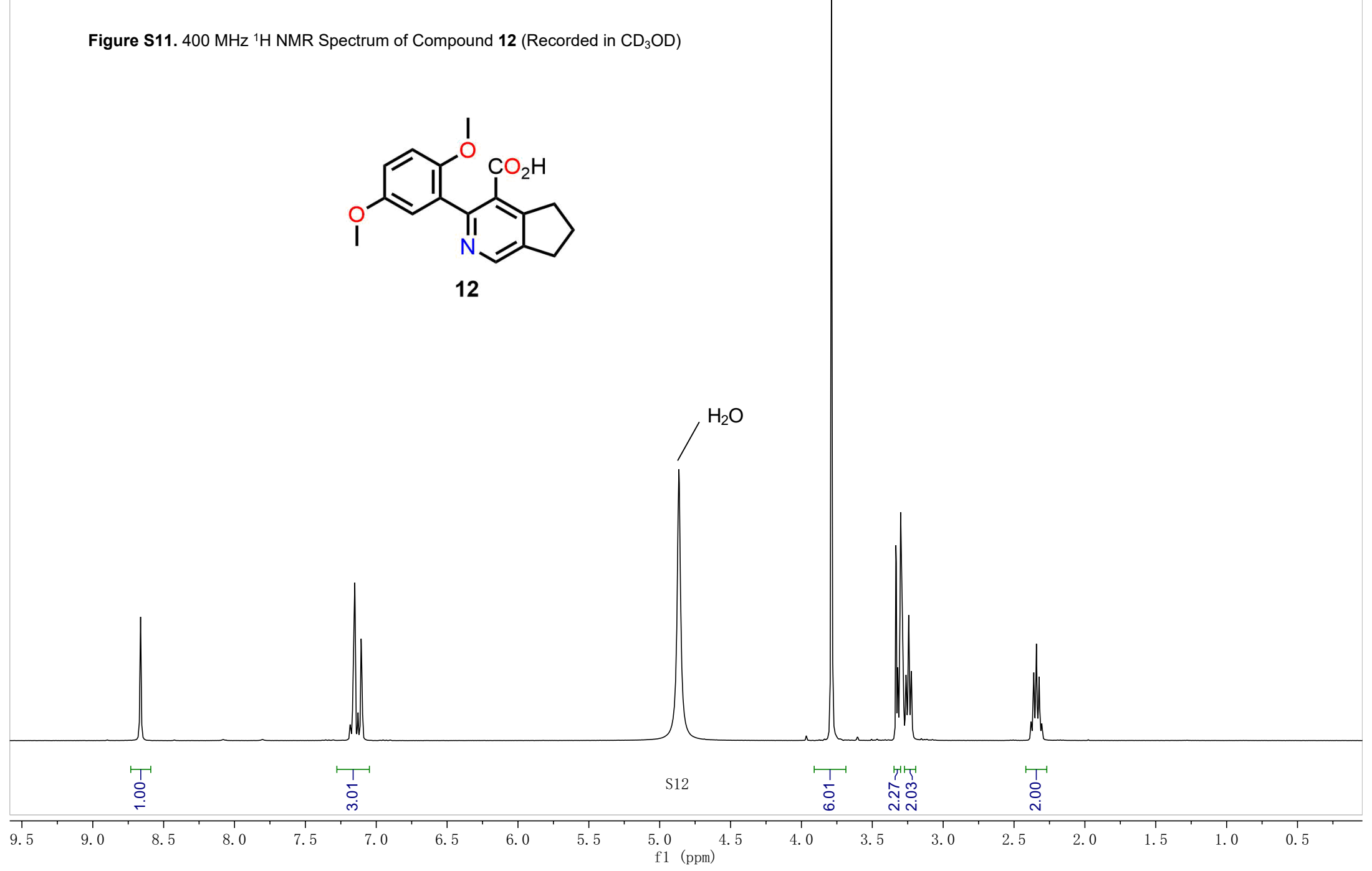
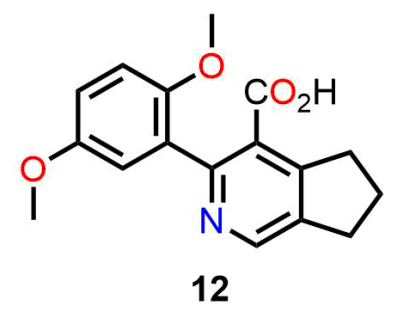


8.66

7.16
7.16
7.15
7.15
7.13
7.11
7.10

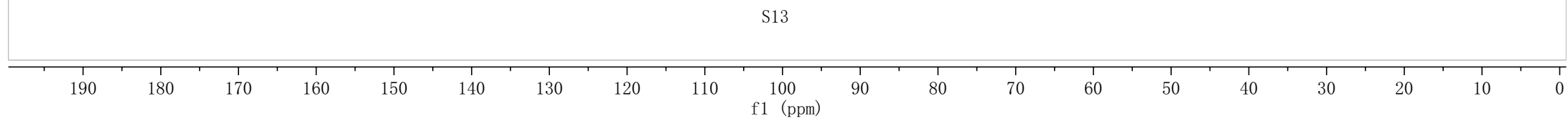
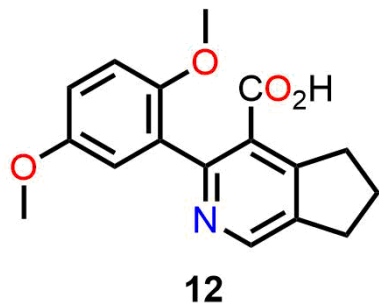
3.79
3.33
3.33
3.32
3.30
3.30
3.30
3.29
3.29
3.28
3.28
3.26
3.24
3.22
2.38
2.36
2.34
2.32
2.30

Figure S11. 400 MHz ¹H NMR Spectrum of Compound 12 (Recorded in CD₃OD)



— 167.90
— 165.17
~ 155.01
~ 152.36
~ 147.30
~ 145.54
— 137.77
— 134.46
~ 120.67
~ 119.70
~ 117.33
~ 113.99
{ 56.56
{ 56.42
— 34.41
— 31.54
— 25.98

Figure S12. 100 MHz ^{13}C NMR Spectrum of Compound **12** (Recorded in CD_3OD)



S13

—9.74

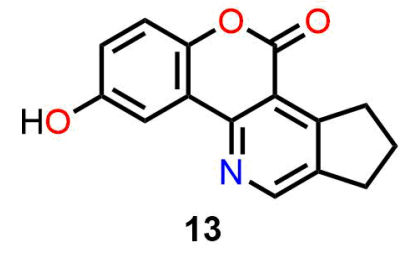
—8.85

7.81
7.80
7.26
7.24
7.02
7.02
7.00
7.00

3.37
3.35
3.03
3.01
2.99

2.17
2.15
2.14
2.13
2.11
2.09

Figure S13. 400 MHz ¹H NMR Spectrum of Compound 13 (Recorded in DMSO-d₆)



H₂O

0.94

1.00

1.01

1.01

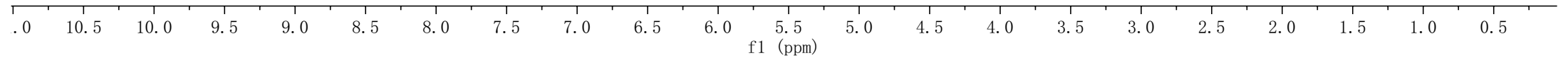
1.06

S14

2.40

2.03

2.08

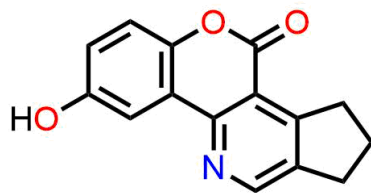


160.01
157.53
154.09
150.85
149.41
145.11
141.60

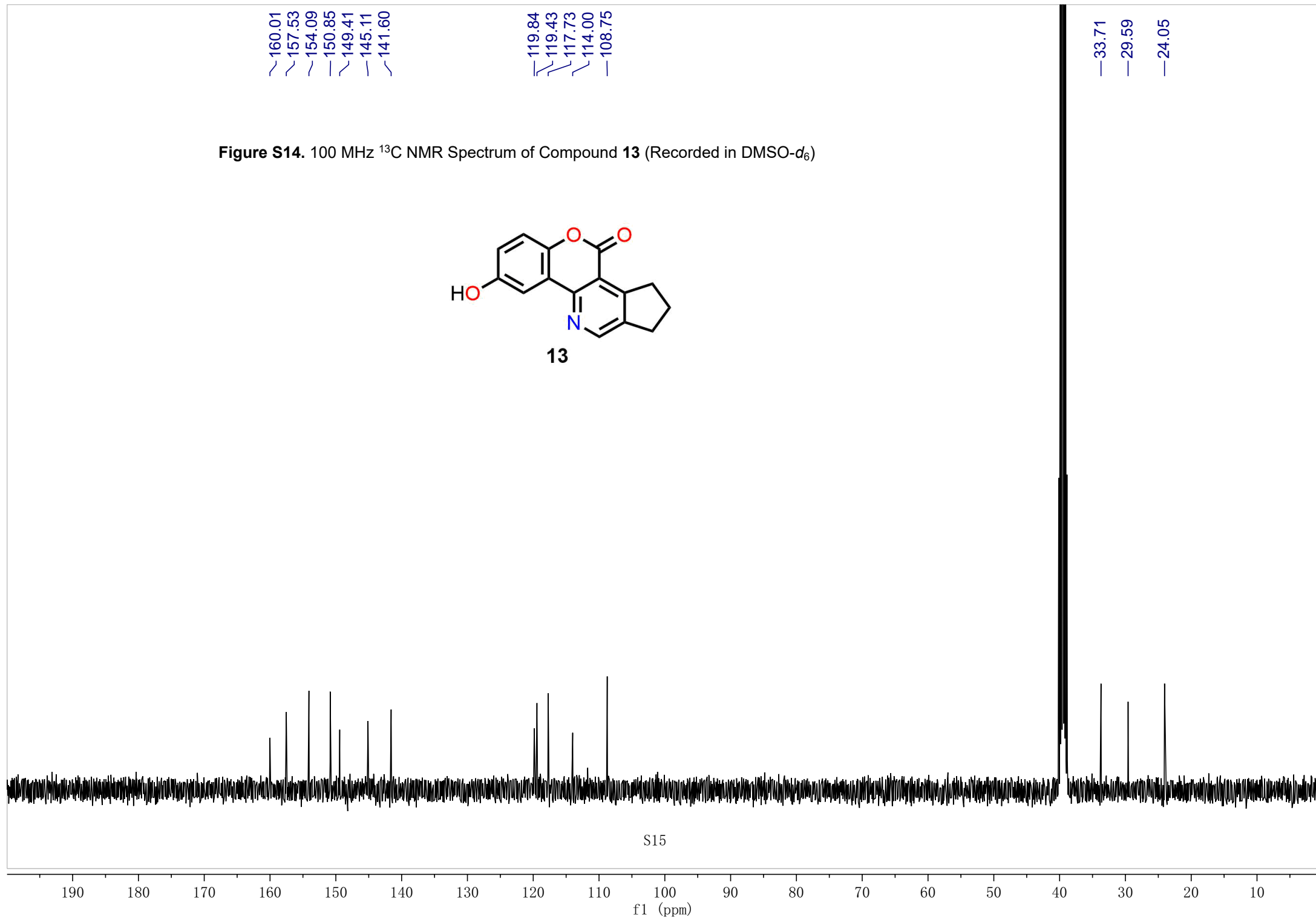
119.84
119.43
117.73
114.00
108.75

33.71
29.59
24.05

Figure S14. 100 MHz ^{13}C NMR Spectrum of Compound **13** (Recorded in $\text{DMSO-}d_6$)

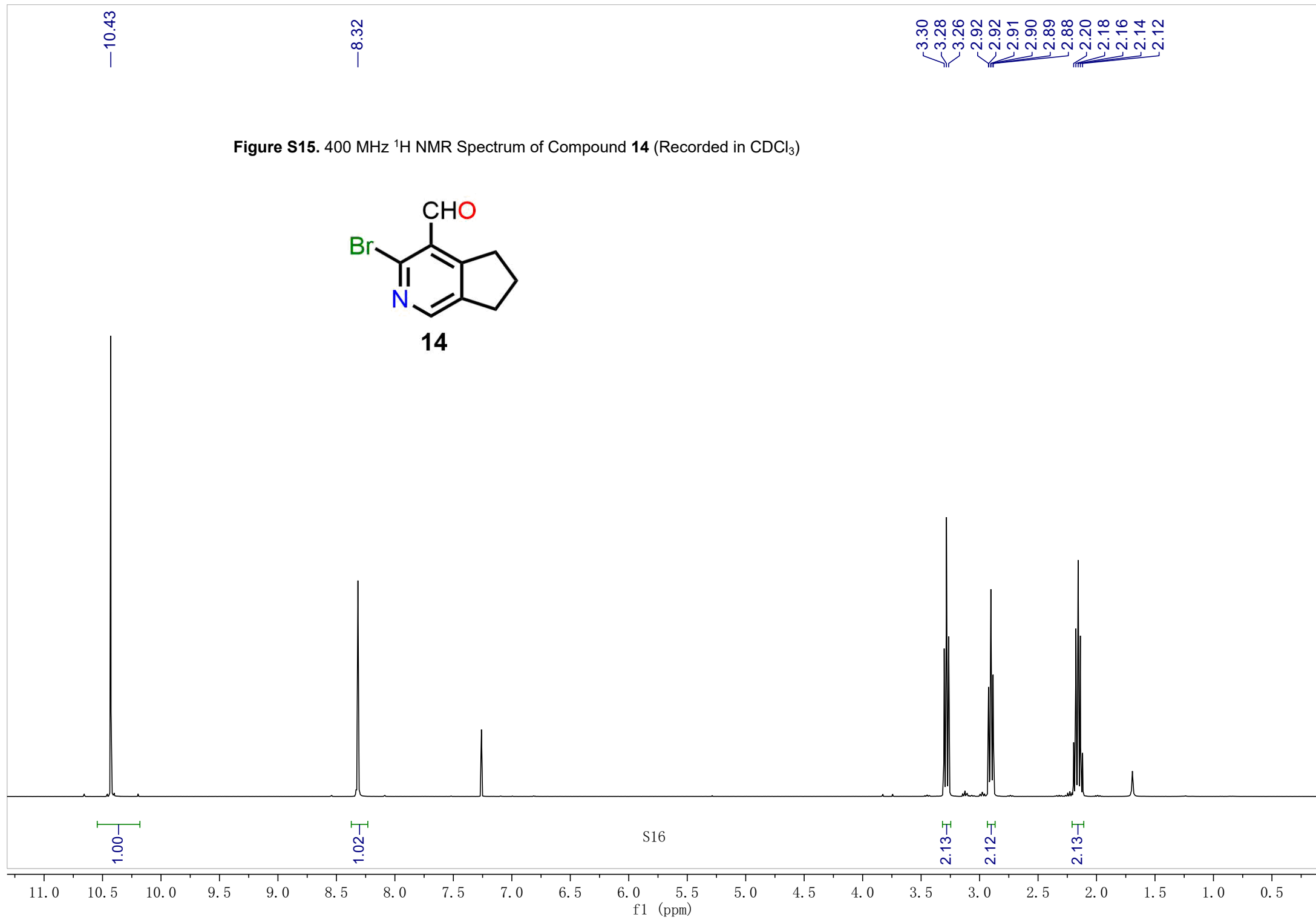
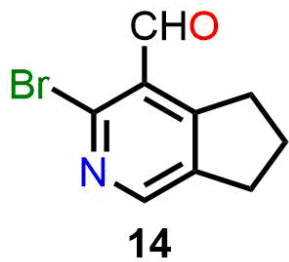


13



S15

Figure S15. 400 MHz ¹H NMR Spectrum of Compound **14** (Recorded in CDCl₃)



— 193.24

— 159.36

— 148.66

— 142.98

— 142.22

— 126.65

— 33.18

— 29.06

— 25.07

Figure S16. 100 MHz ^{13}C NMR Spectrum of Compound **14** (Recorded in CDCl_3)

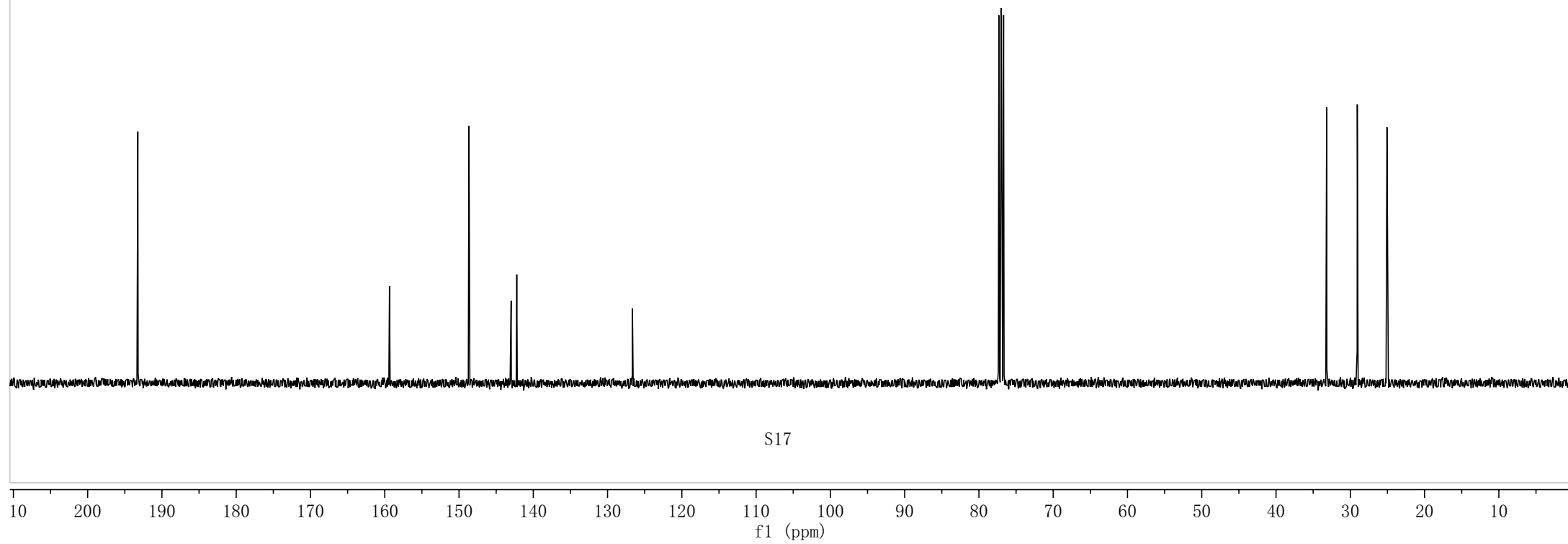
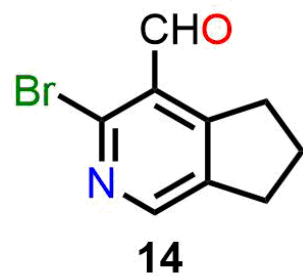


Figure S17. 400 MHz ¹H NMR Spectrum of Compound **15** (Recorded in CDCl₃)

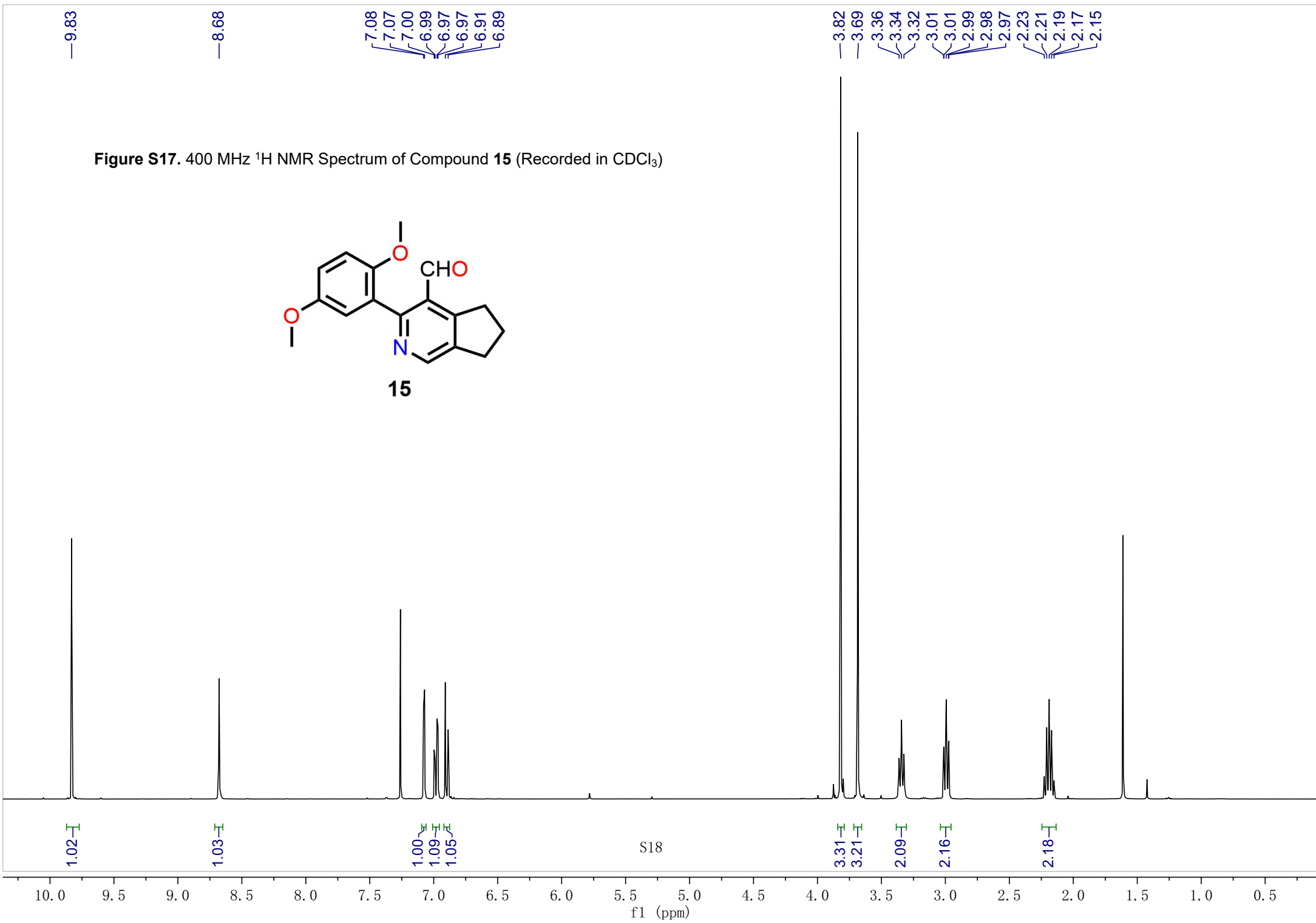
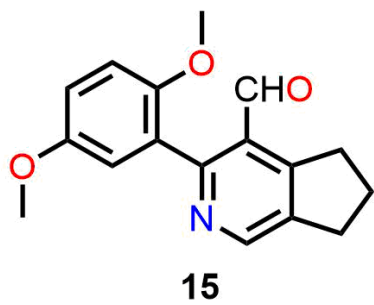
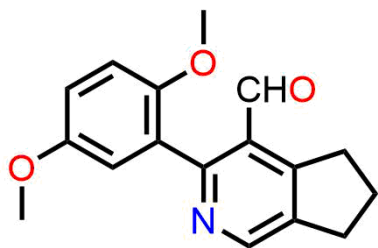
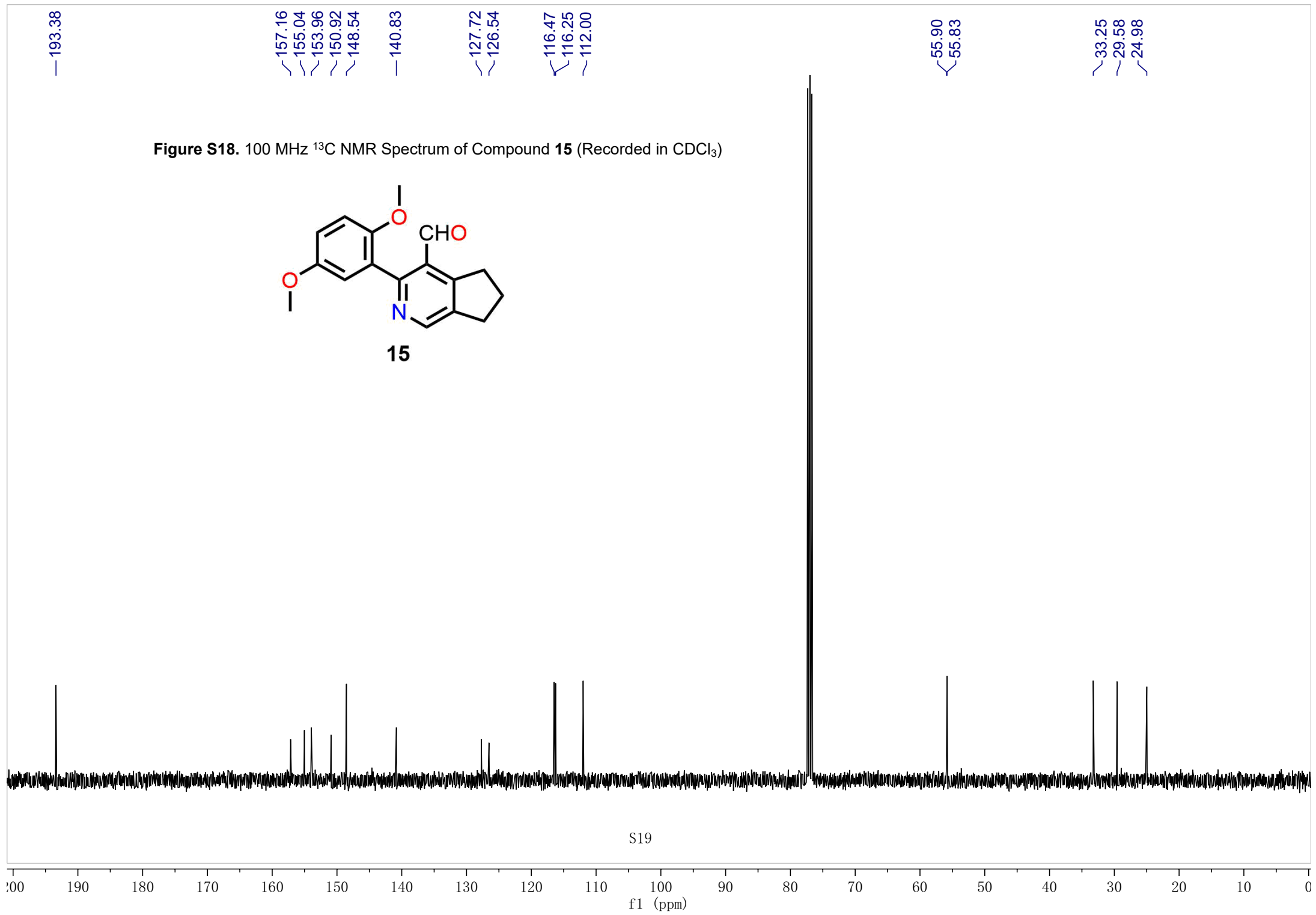


Figure S18. 100 MHz ¹³C NMR Spectrum of Compound **15** (Recorded in CDCl₃)



15



S19