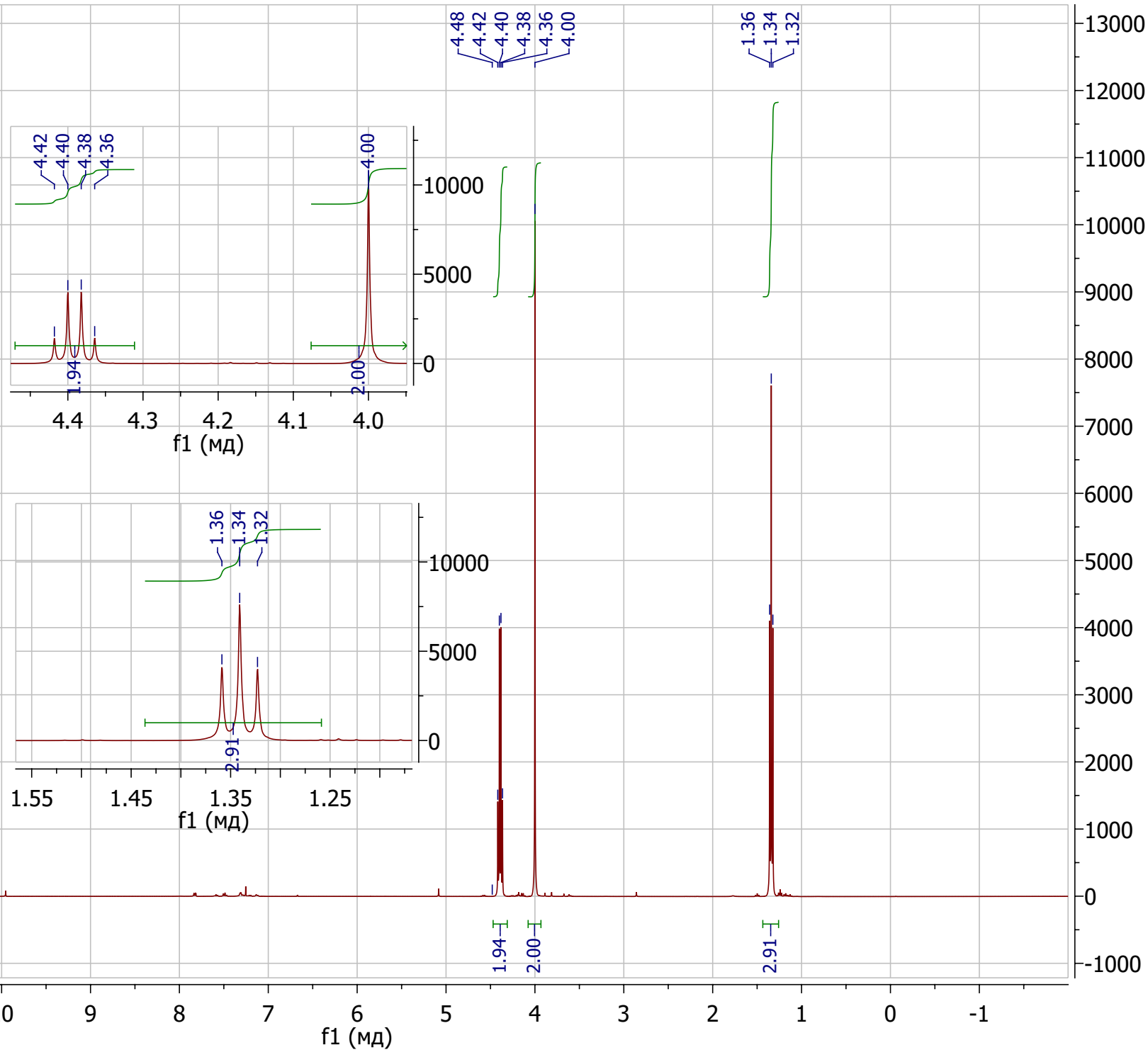
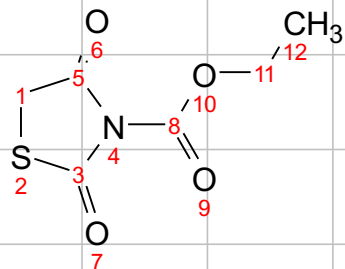
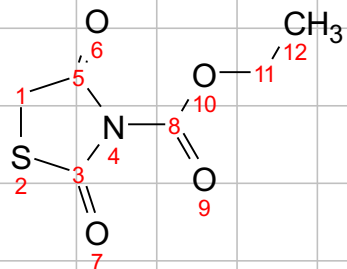


3



3

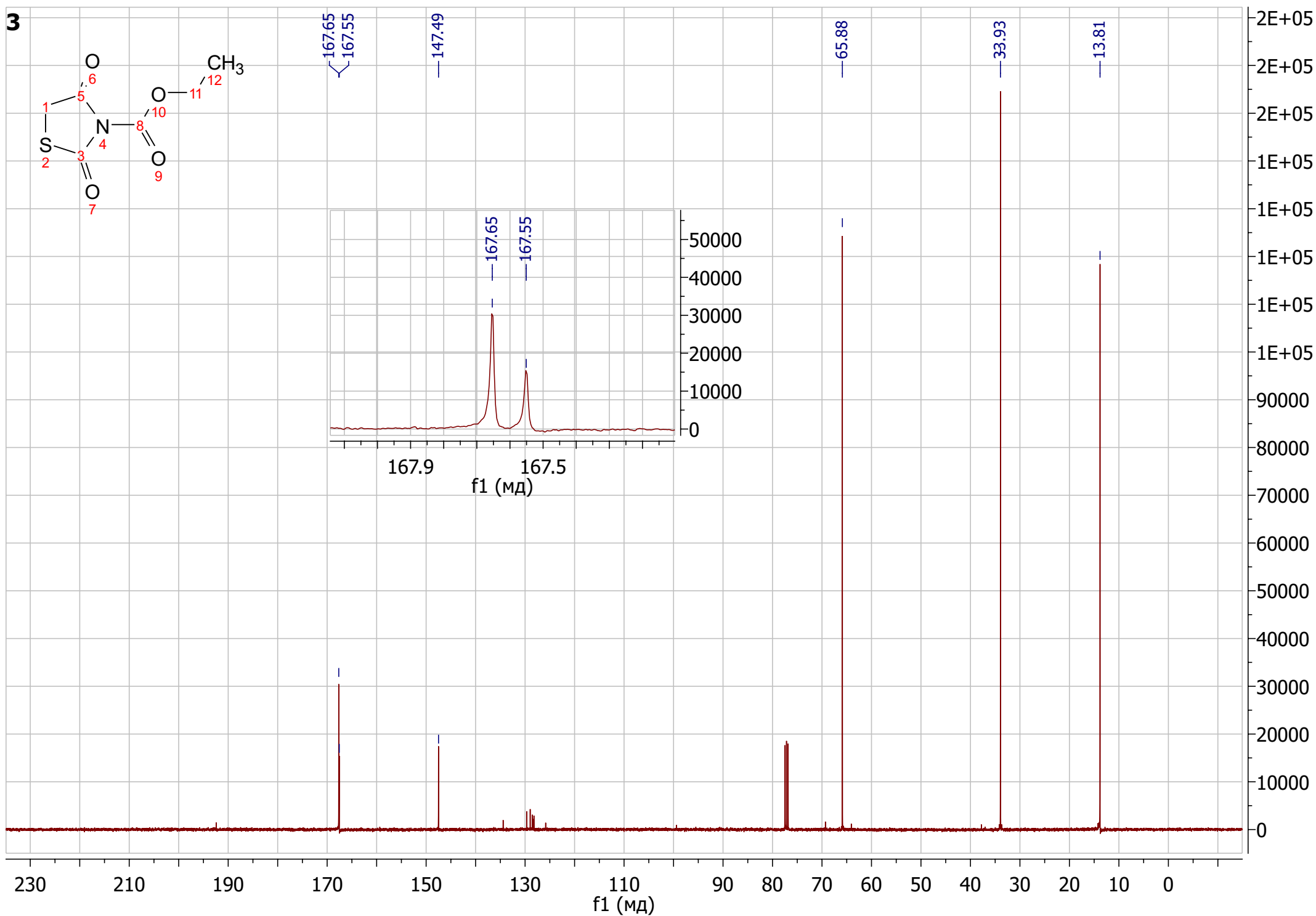
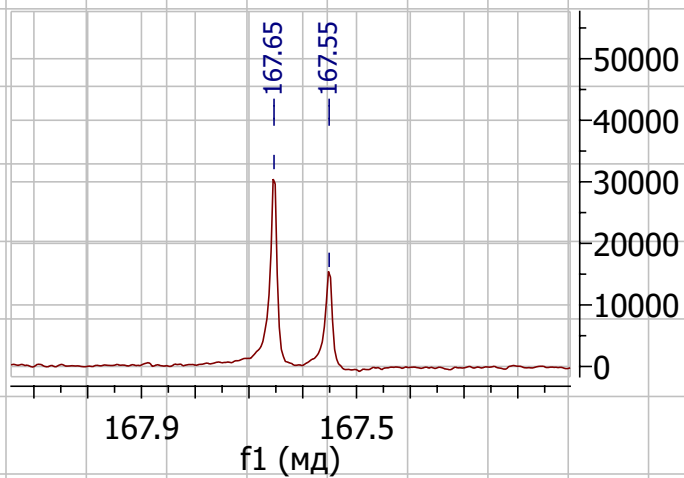
167.65
167.55

147.49

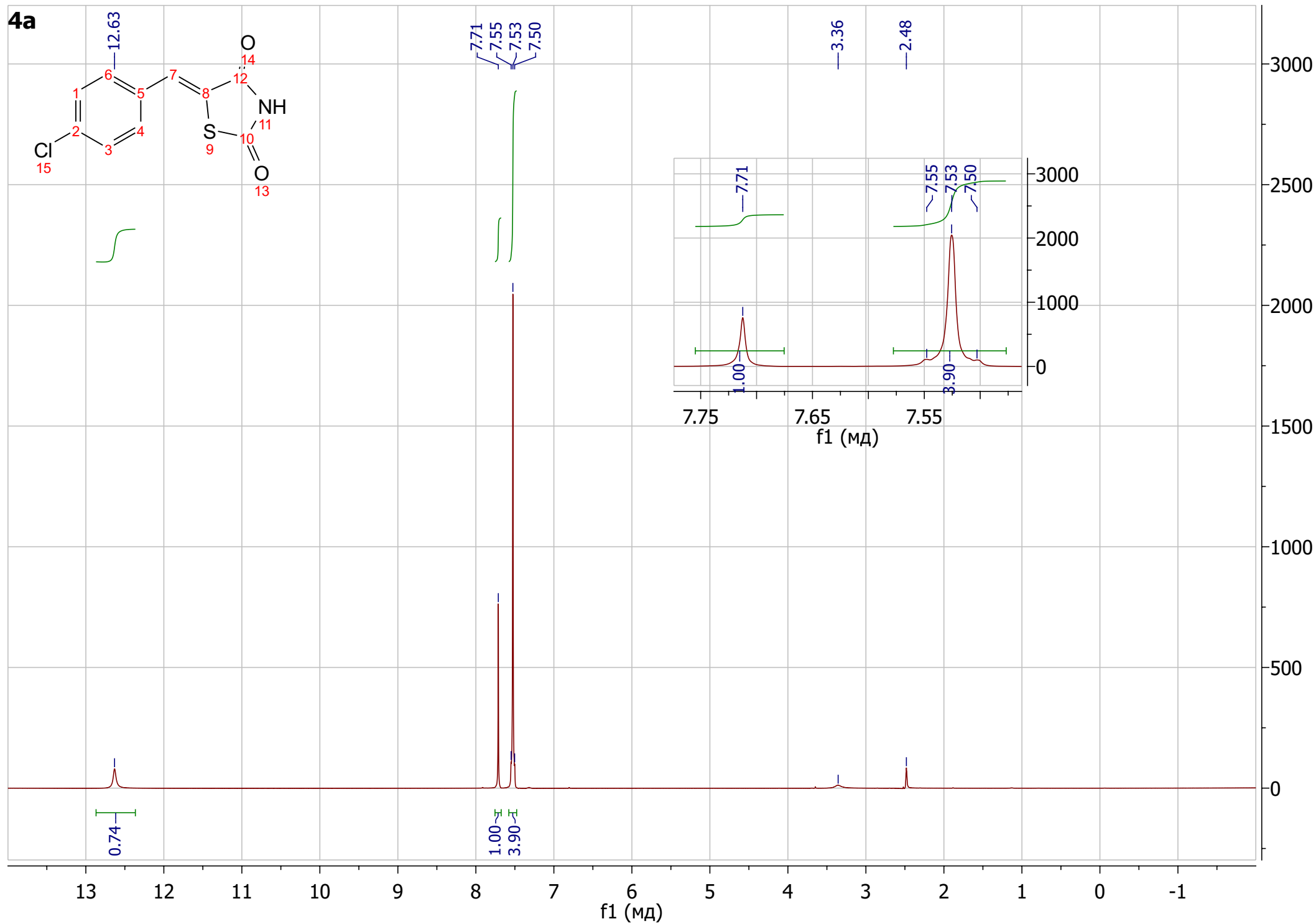
65.88

33.93

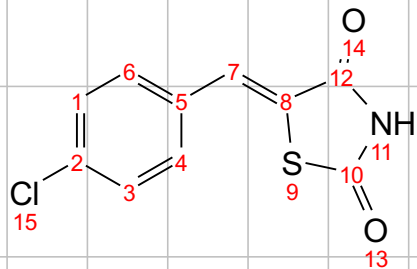
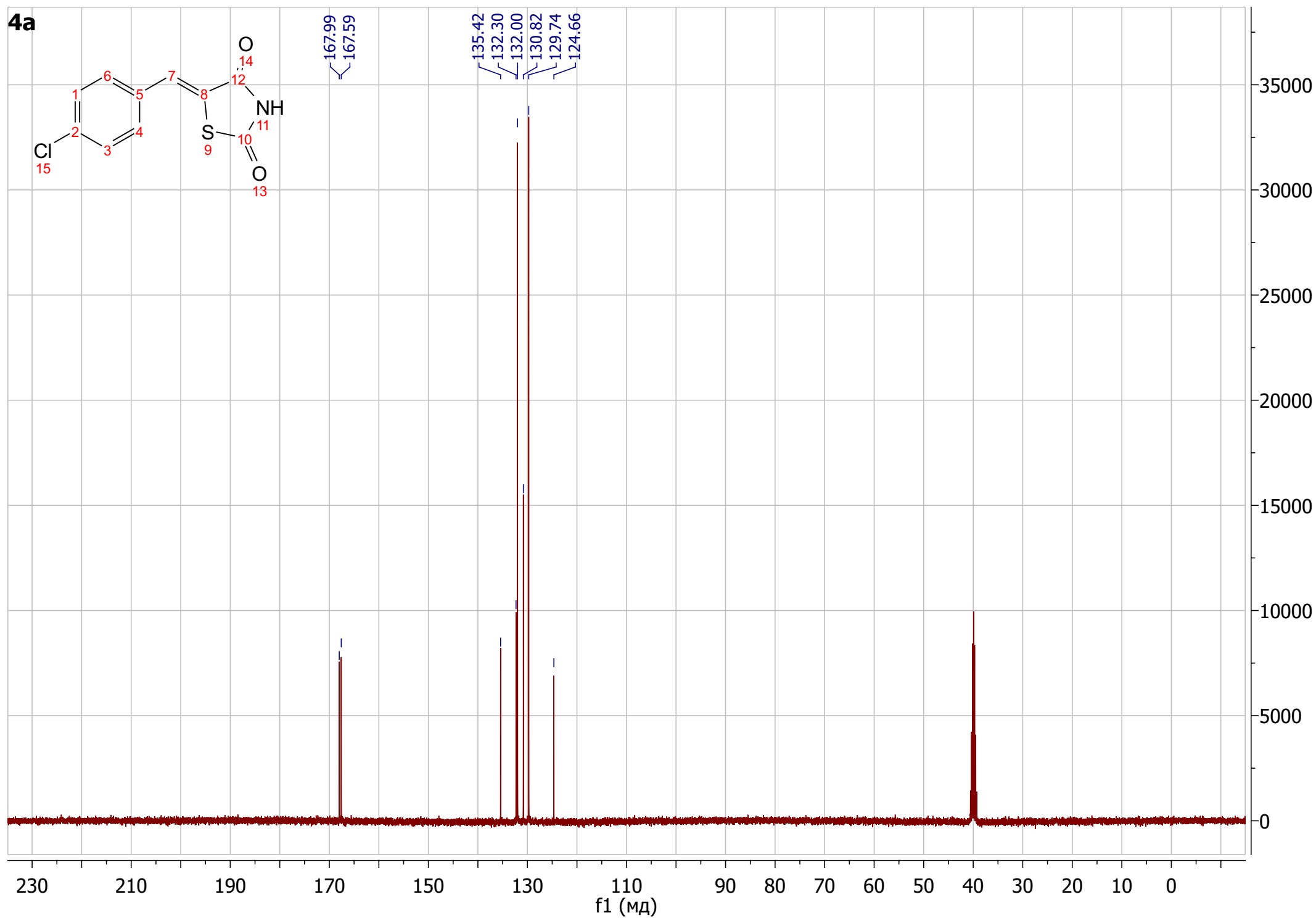
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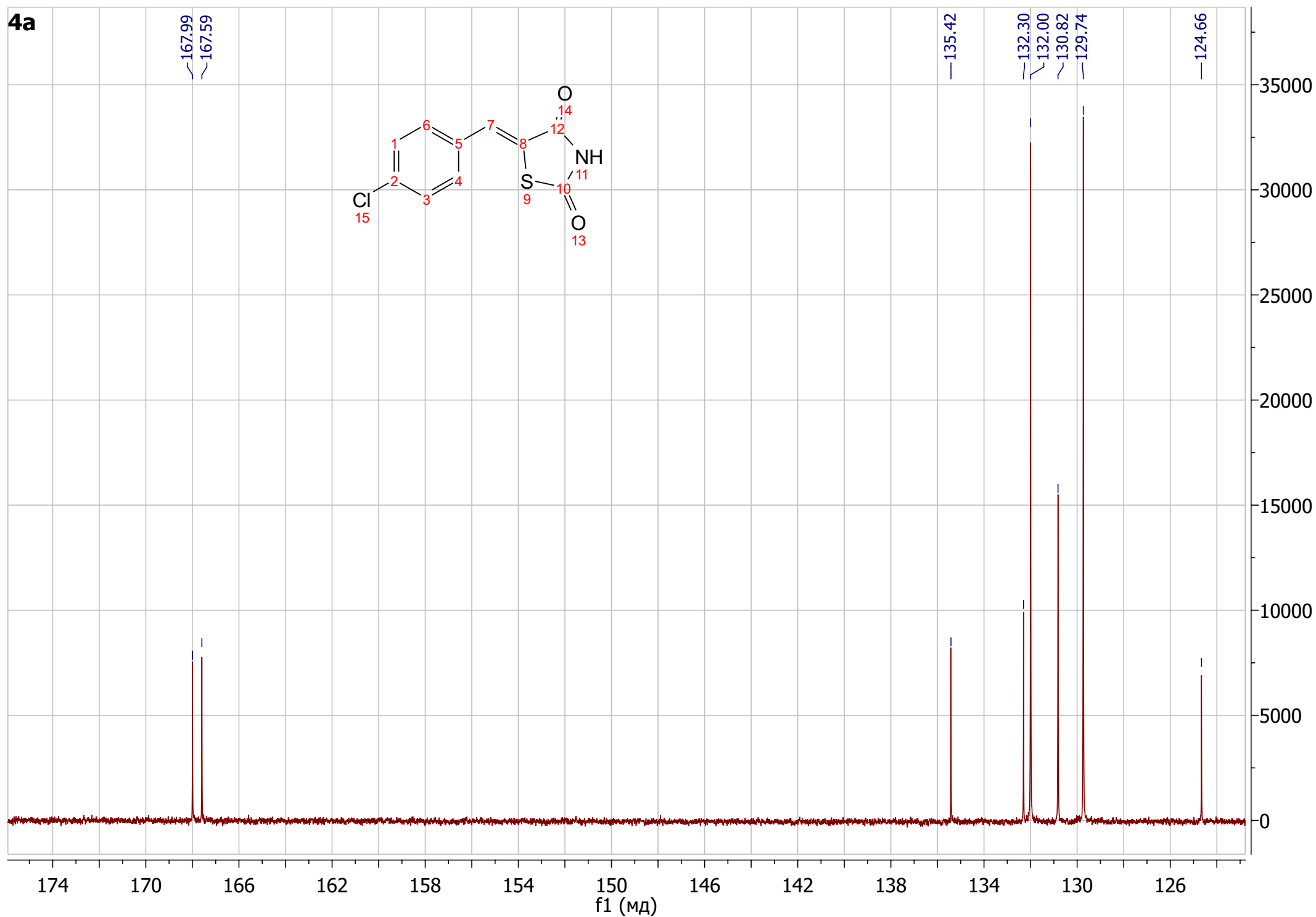


4a



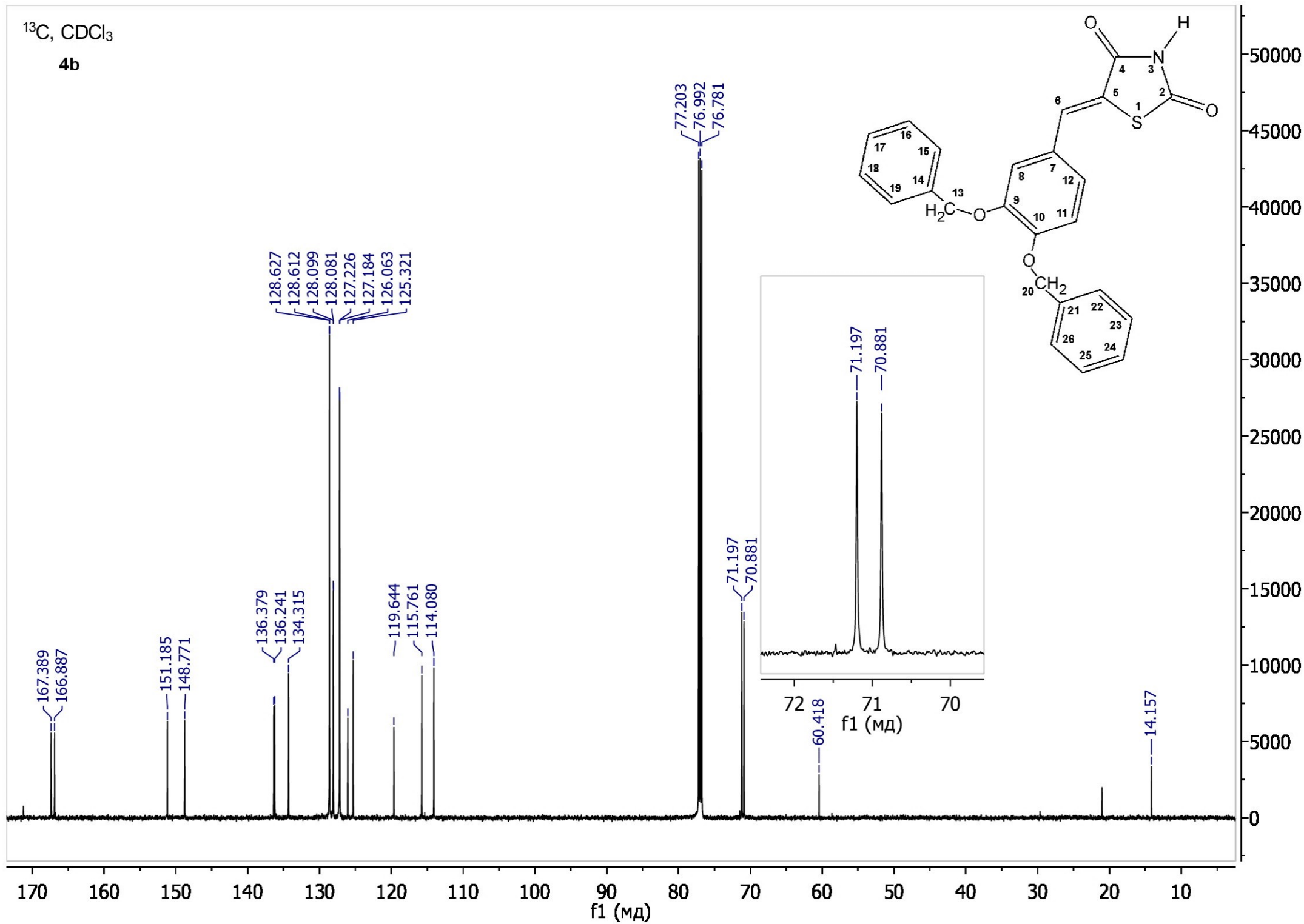
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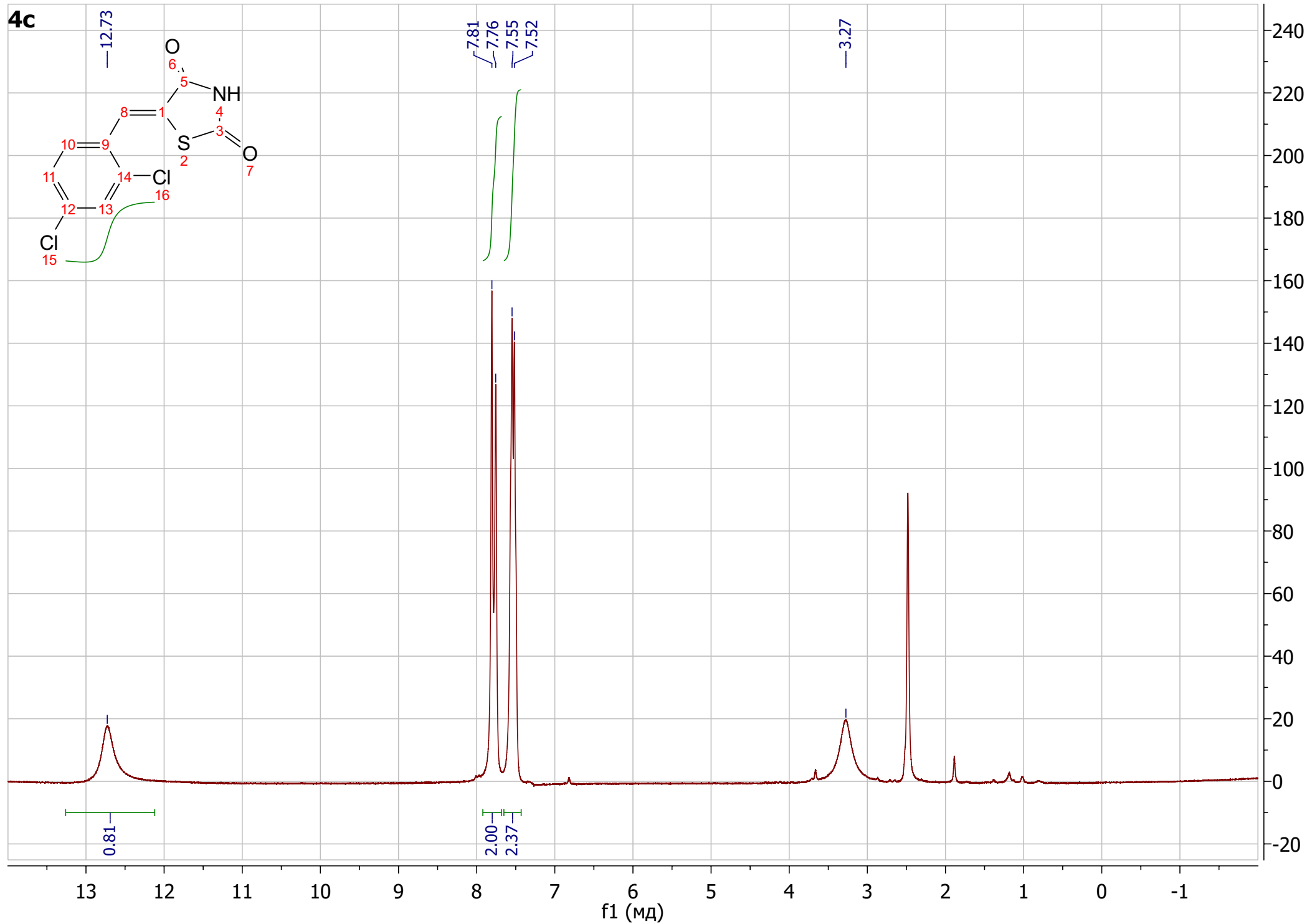
167.99
167.59135.42
132.30
132.00
130.82
129.74
124.66

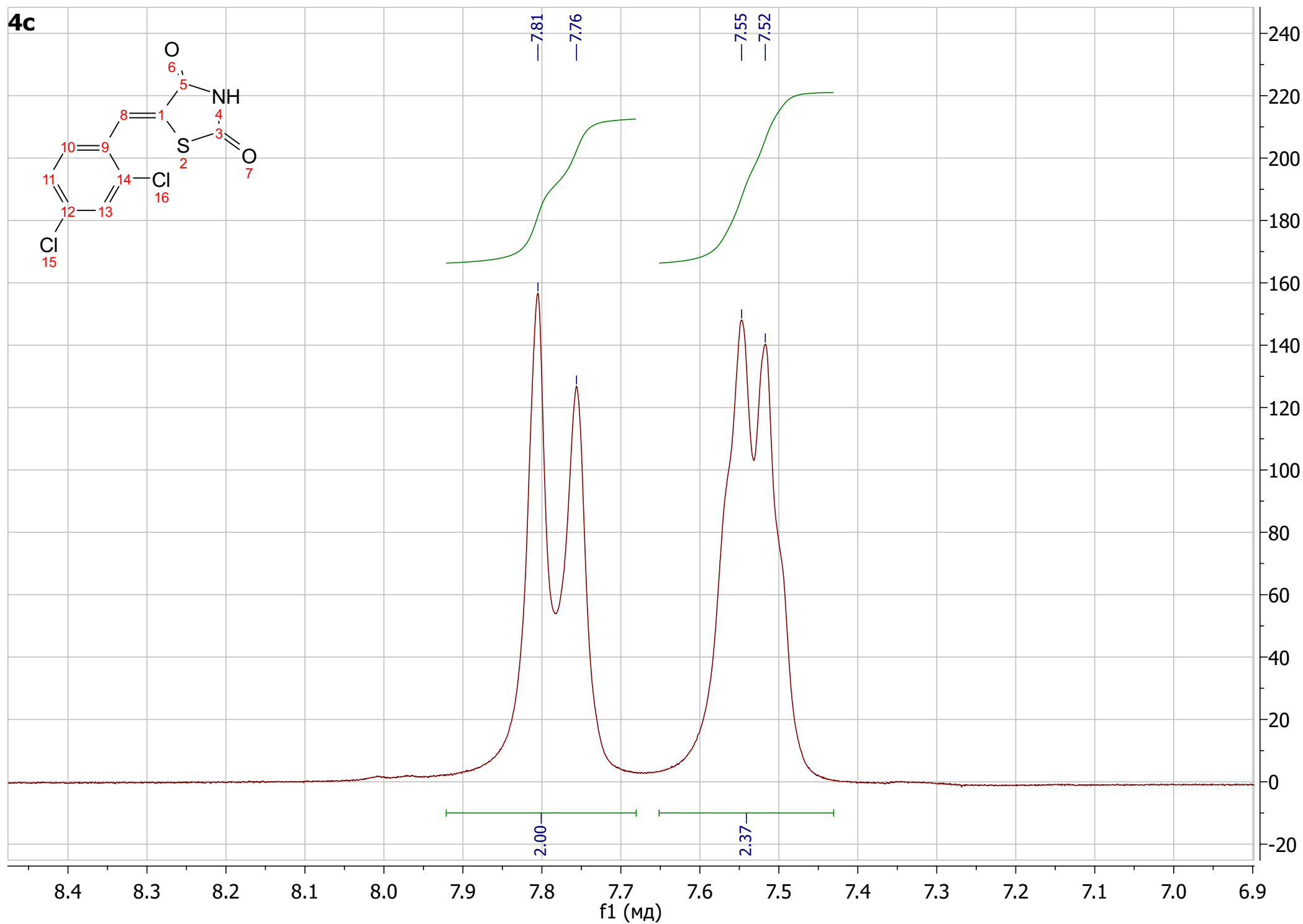
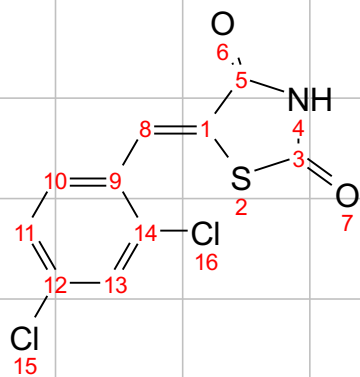
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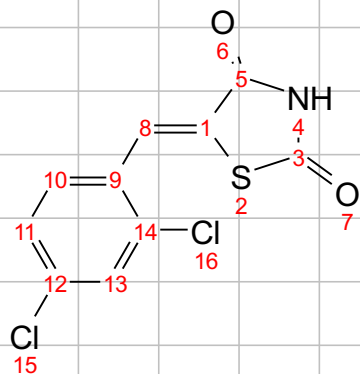
^{13}C , CDCl_3

4b



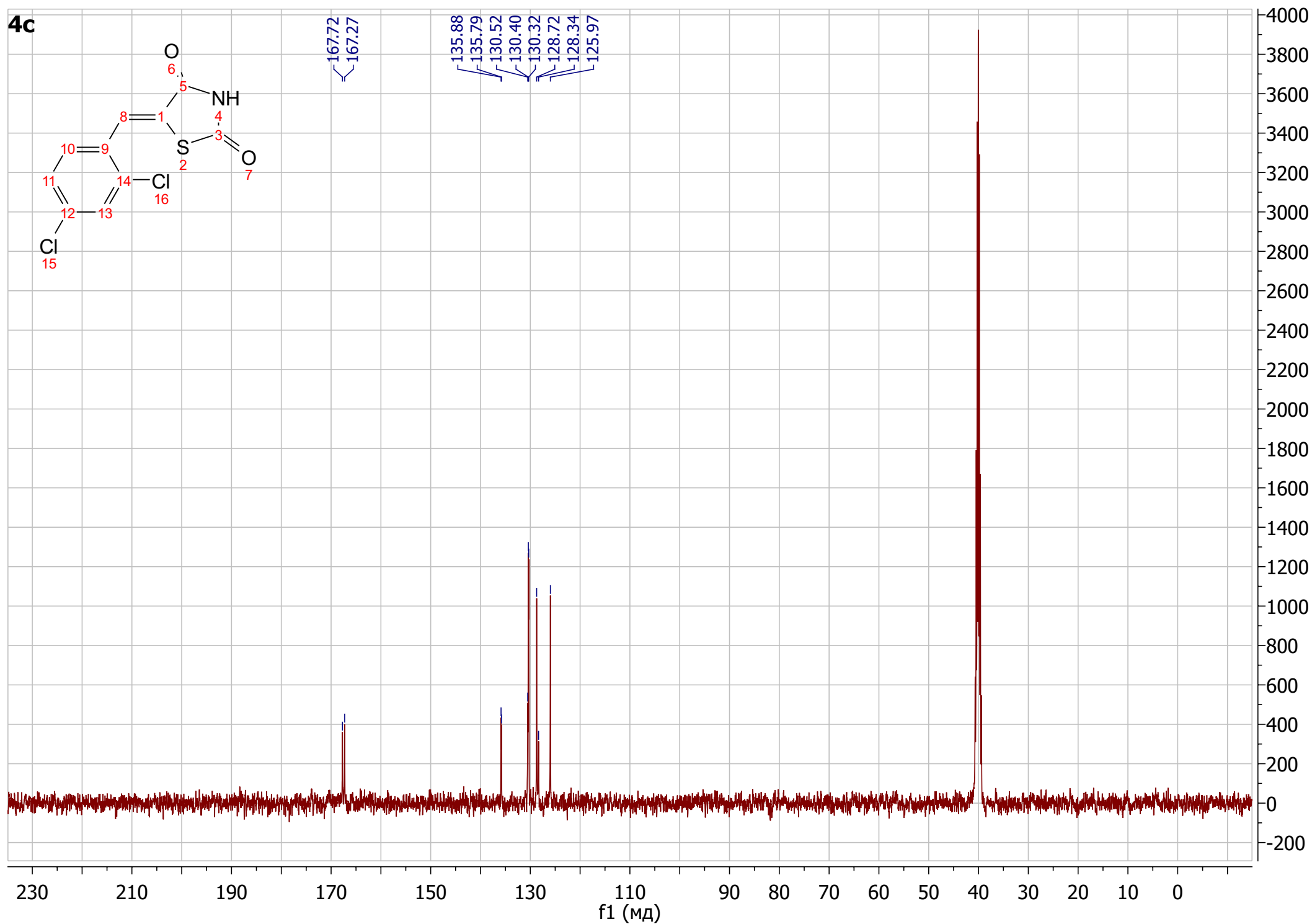


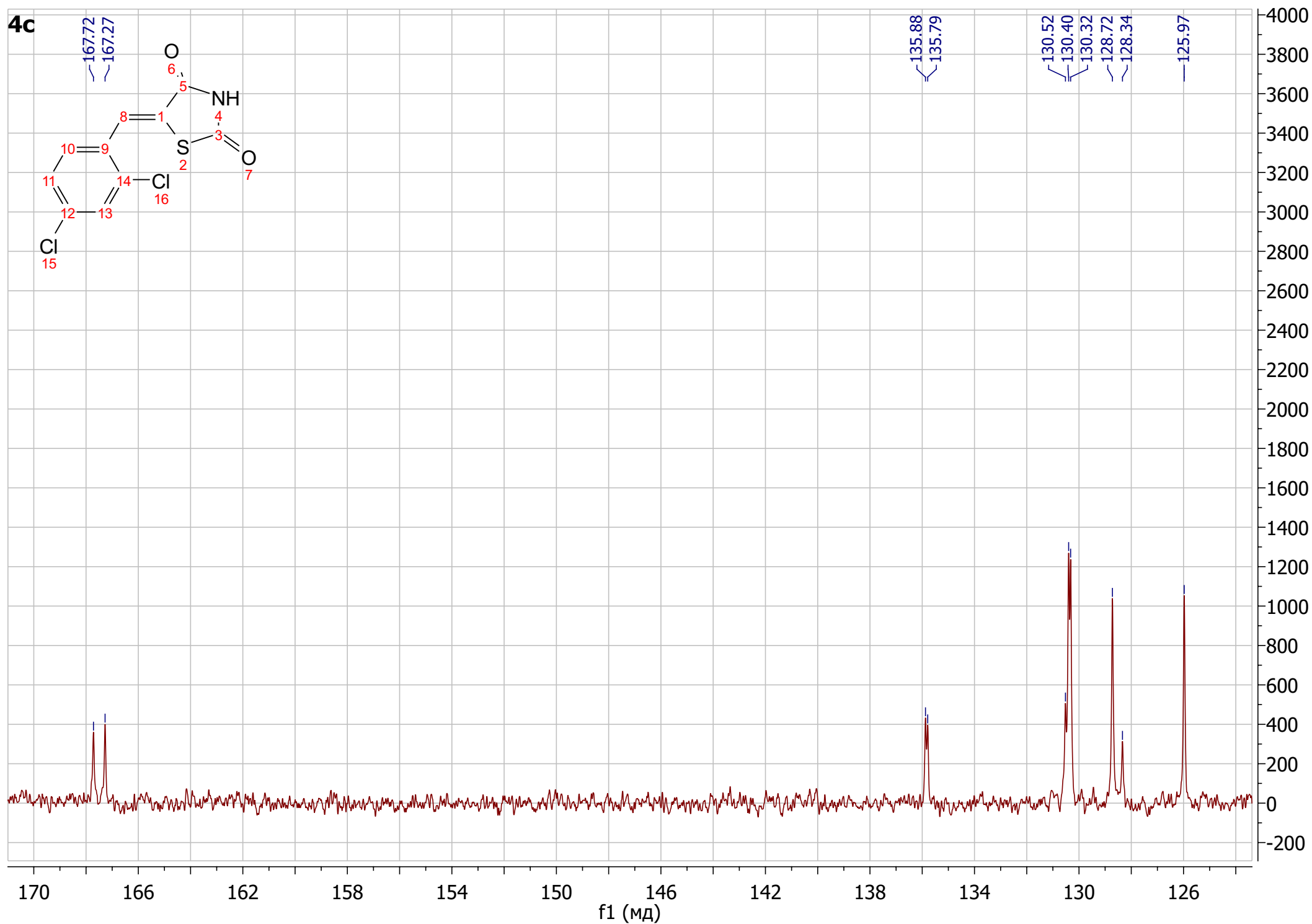
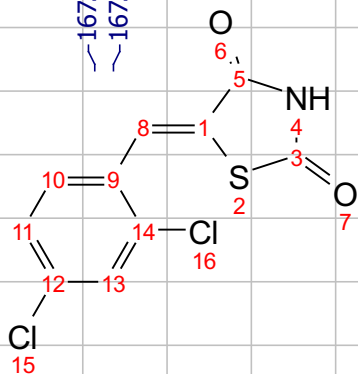
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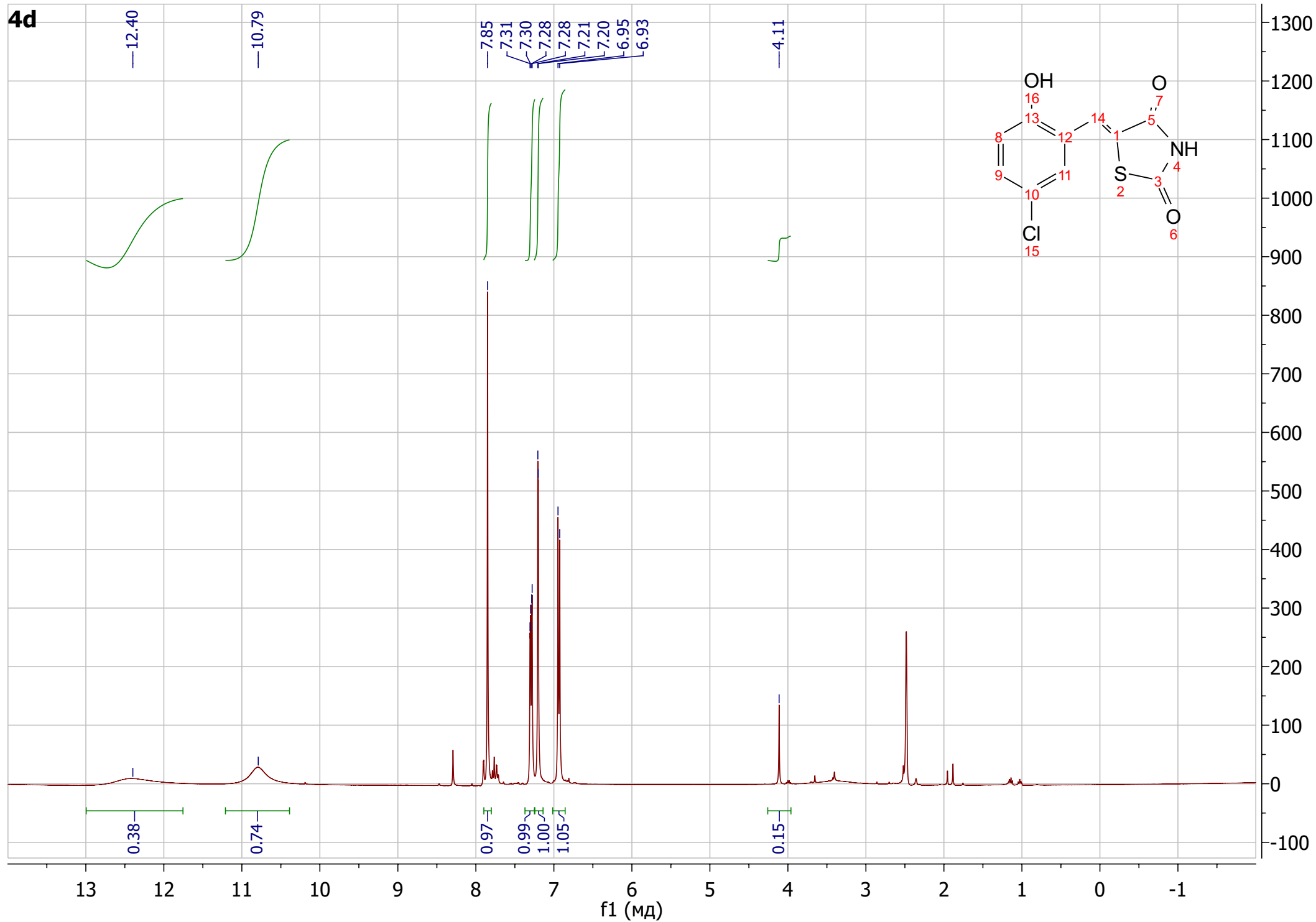
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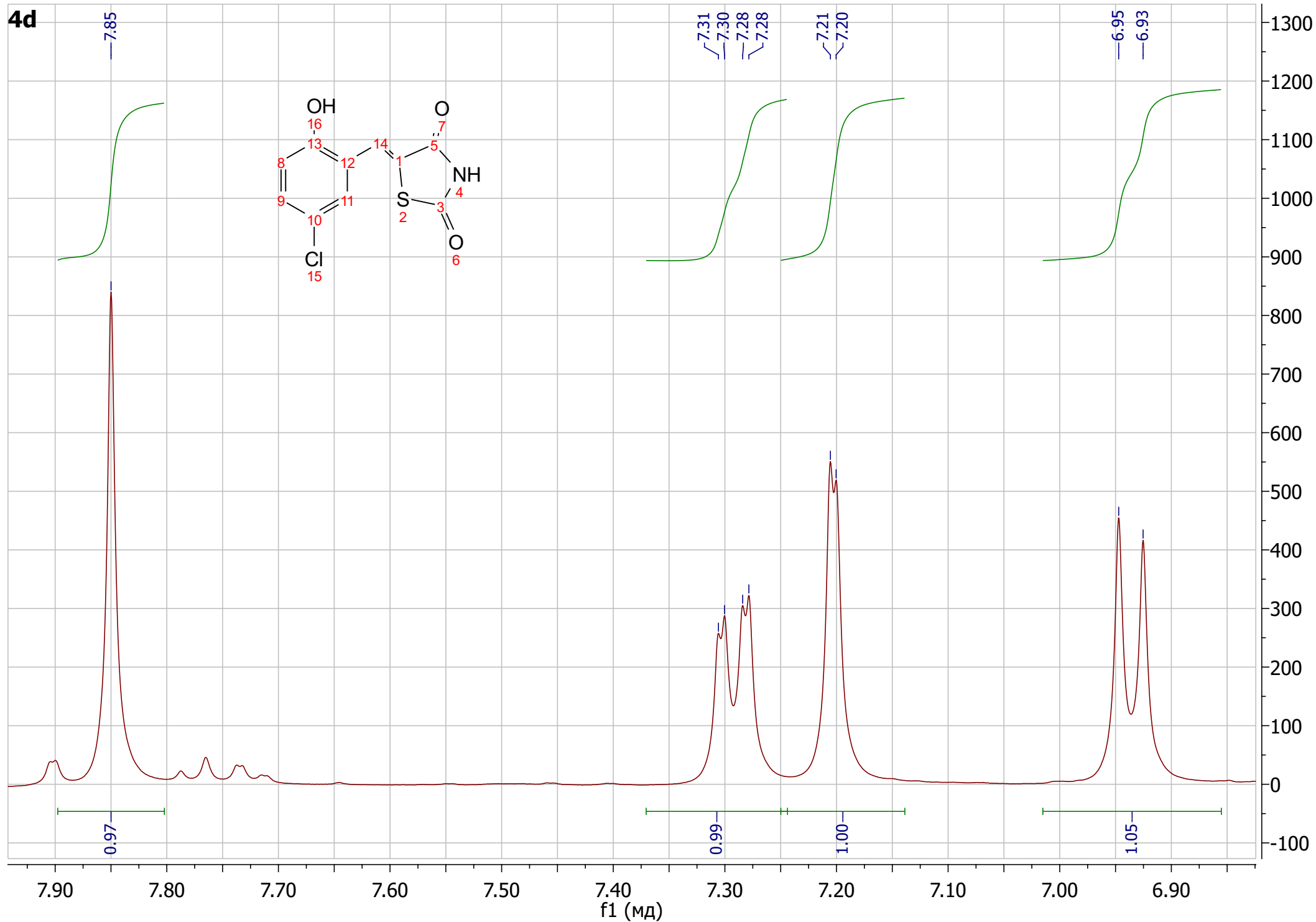
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167.27

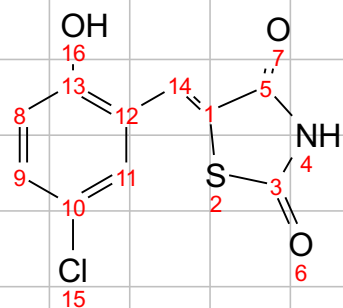
135.88
135.79
130.52
130.40
130.32
128.72
128.34
125.97



4c





4d168.17
167.81

156.40

131.91

127.74

125.95

124.22

123.49

122.06

118.20

230

210

190

170

150

130

f1 (MД)

90

80

70

60

50

40

30

20

10

0

34000

32000

30000

28000

26000

24000

22000

20000

18000

16000

14000

12000

10000

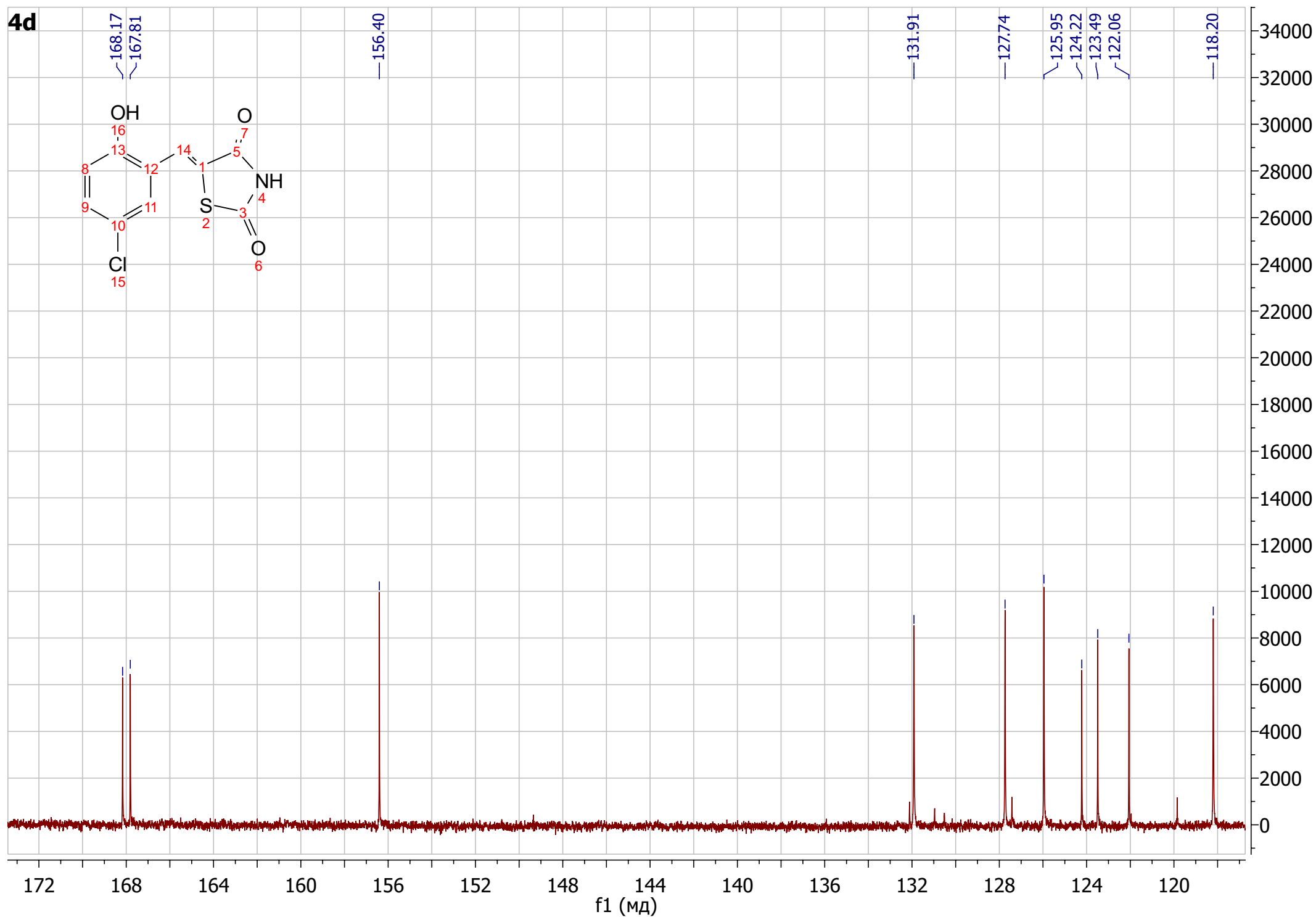
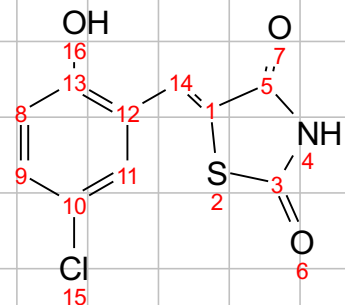
8000

6000

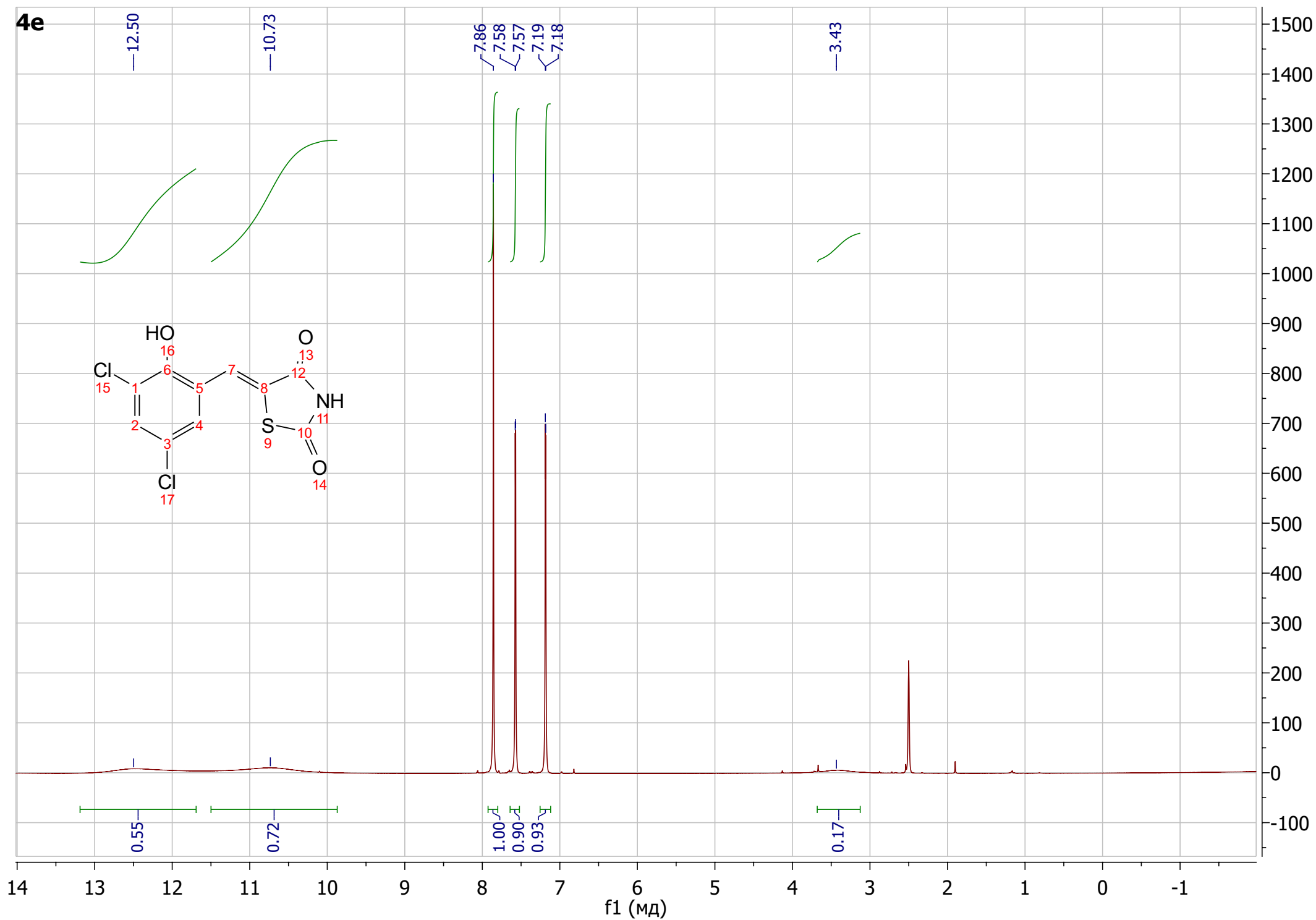
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2000

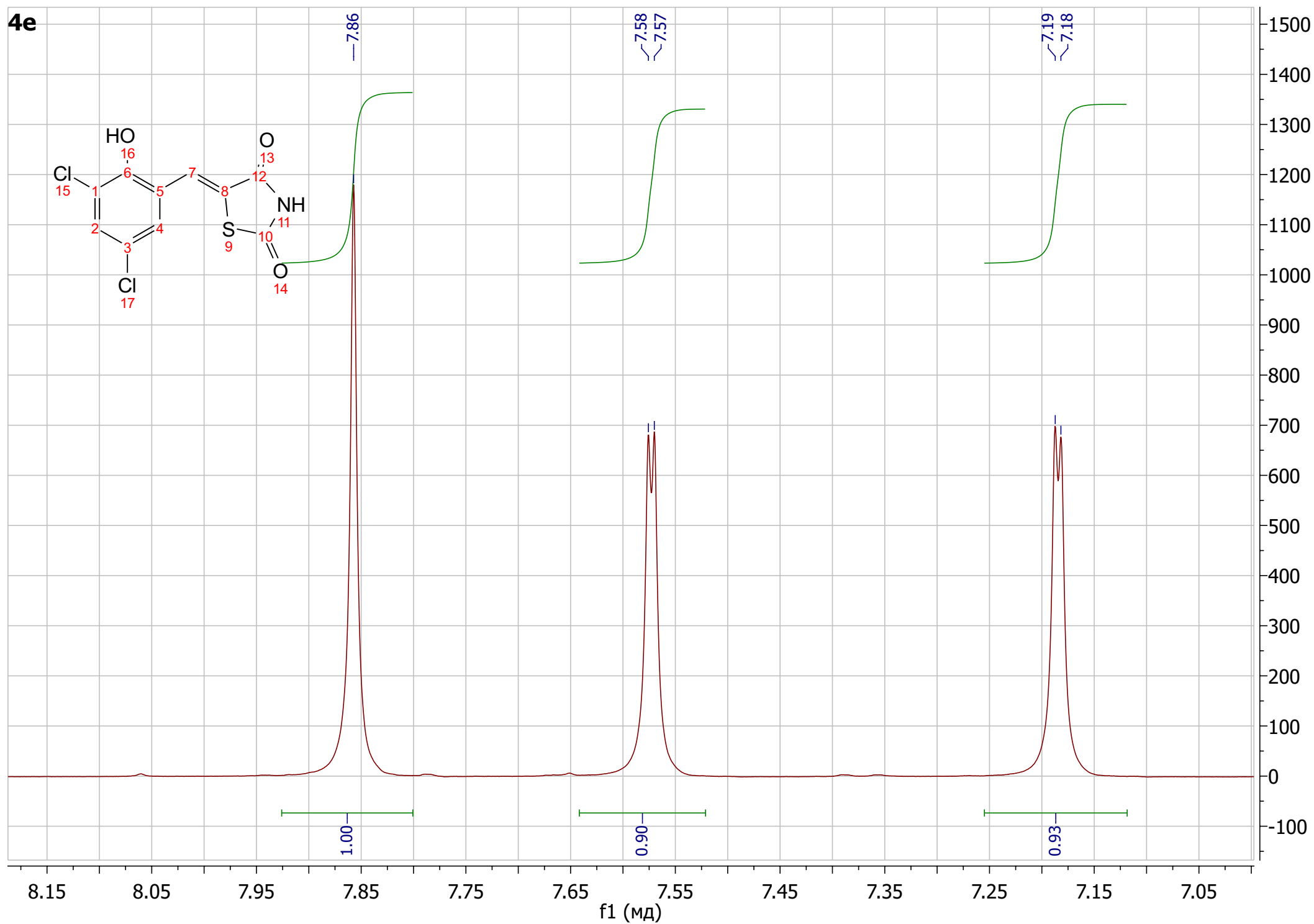
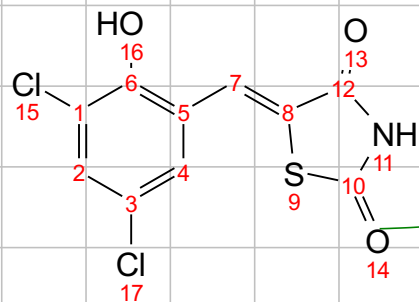
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4d

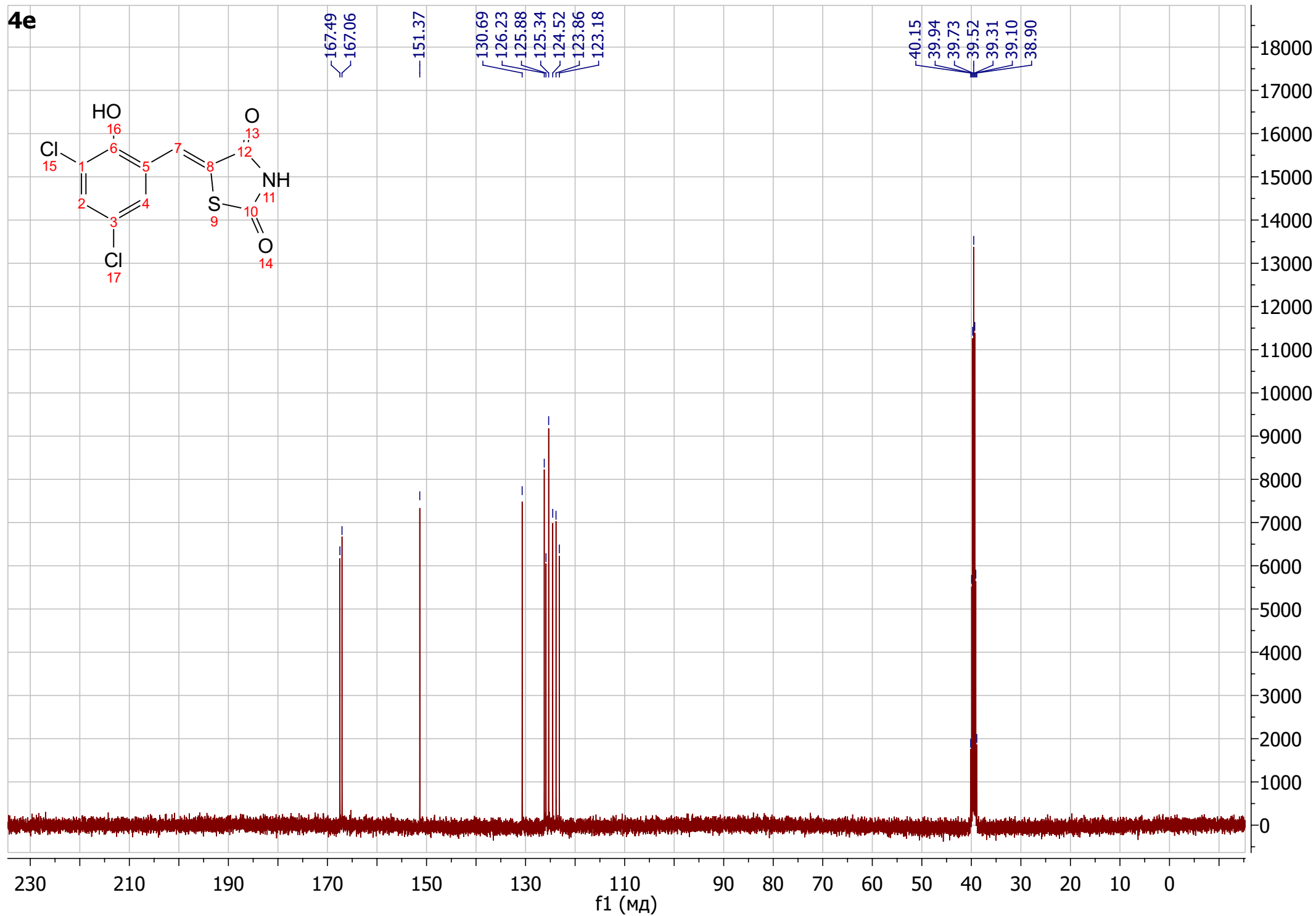
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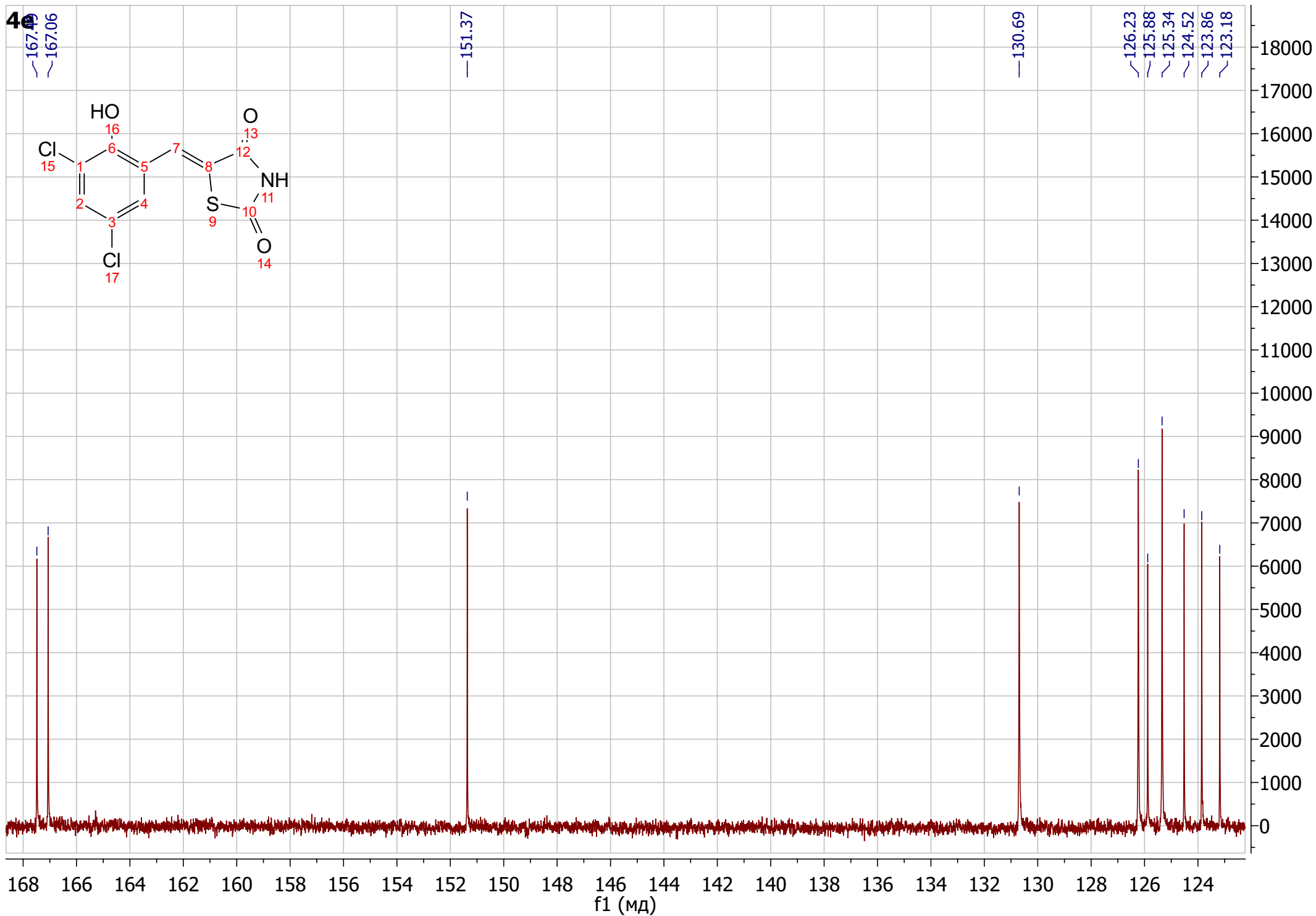


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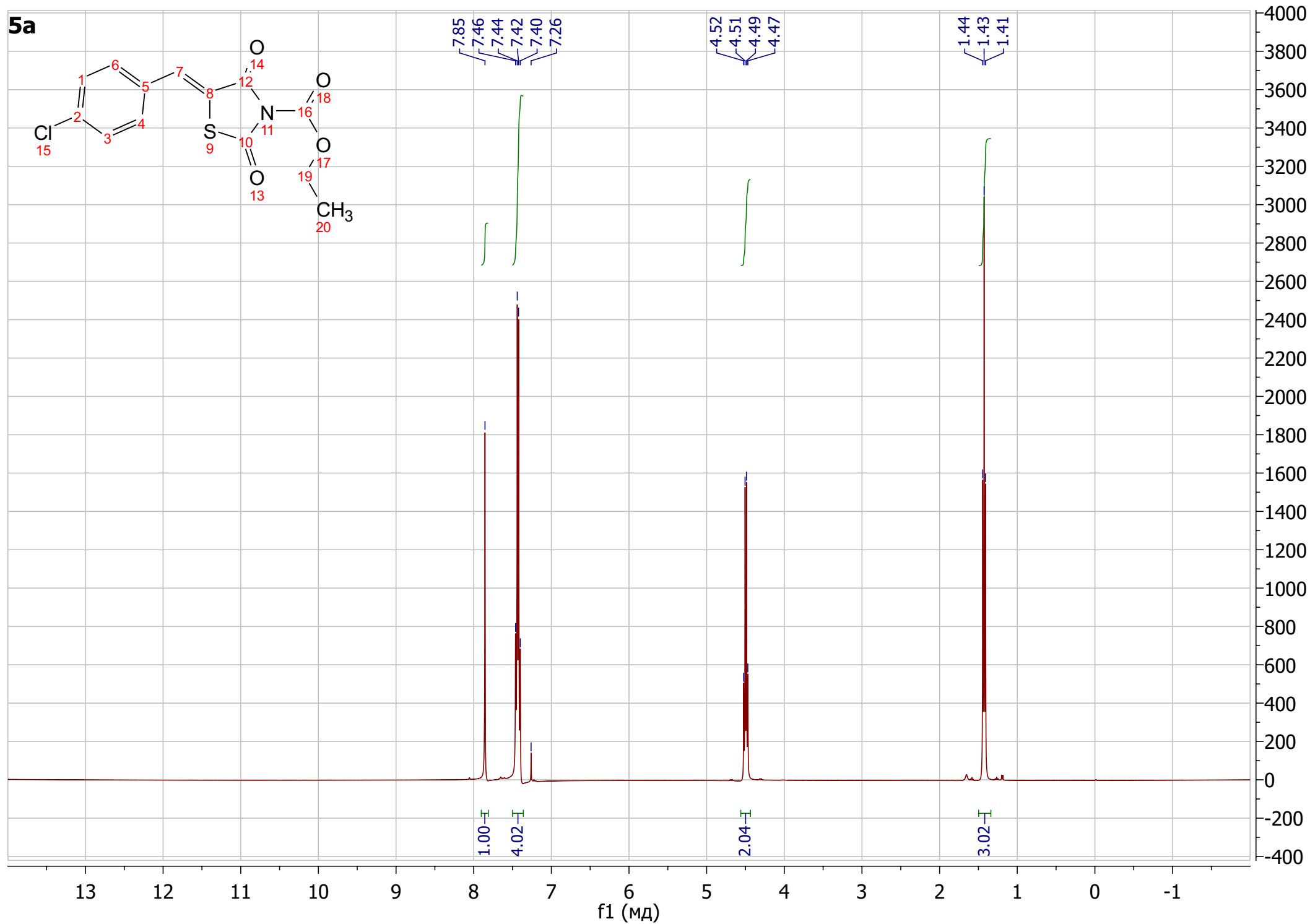


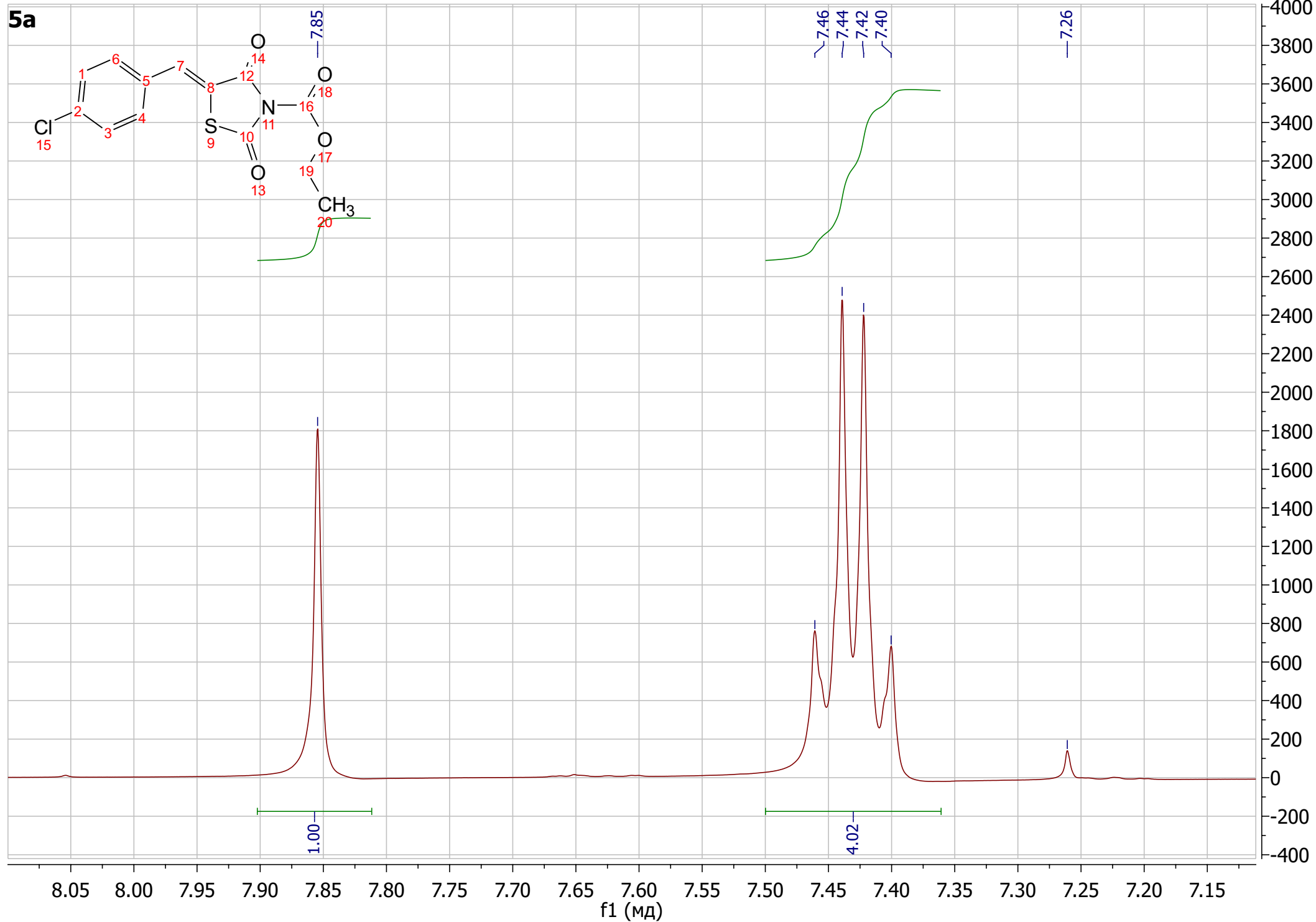
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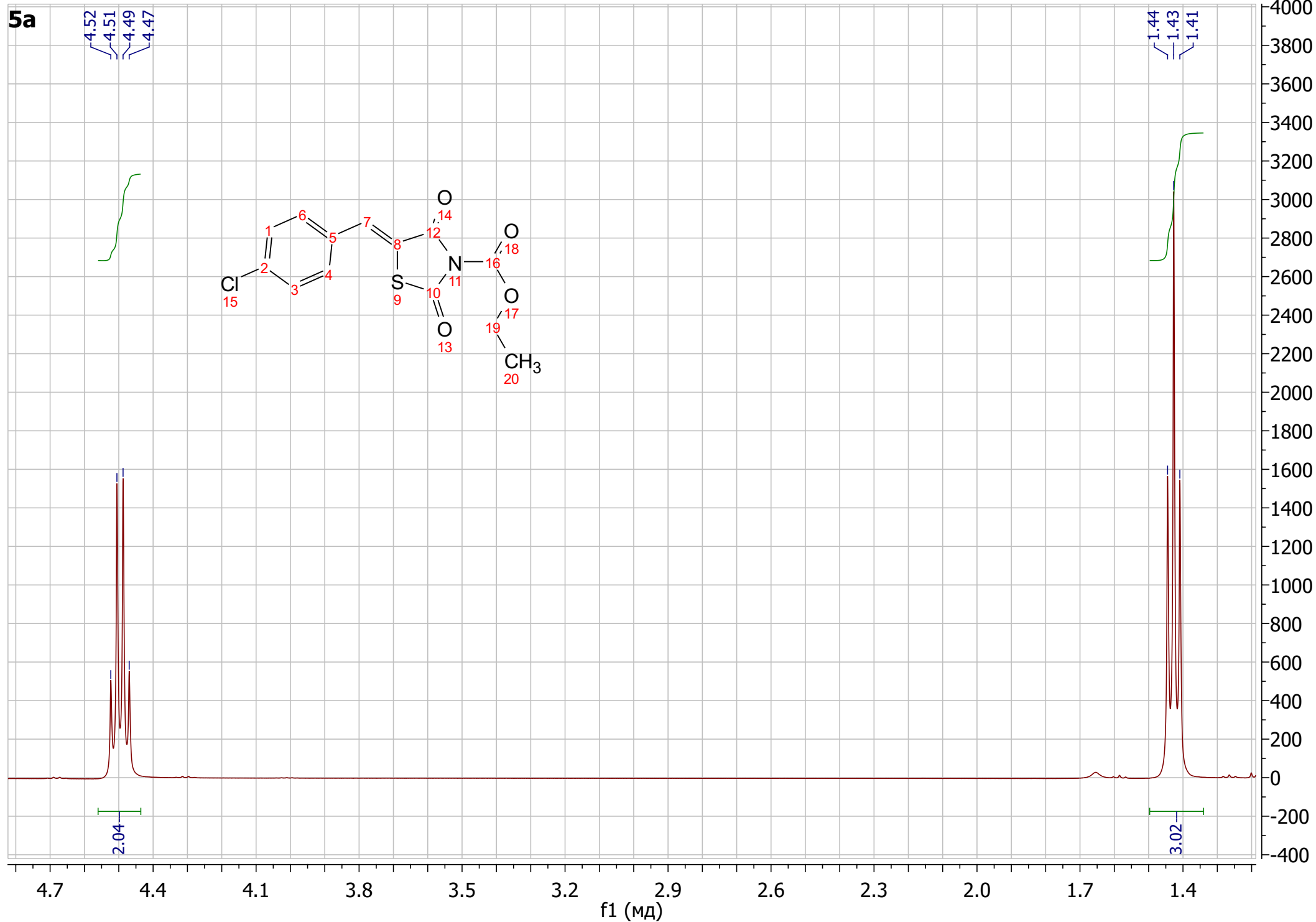




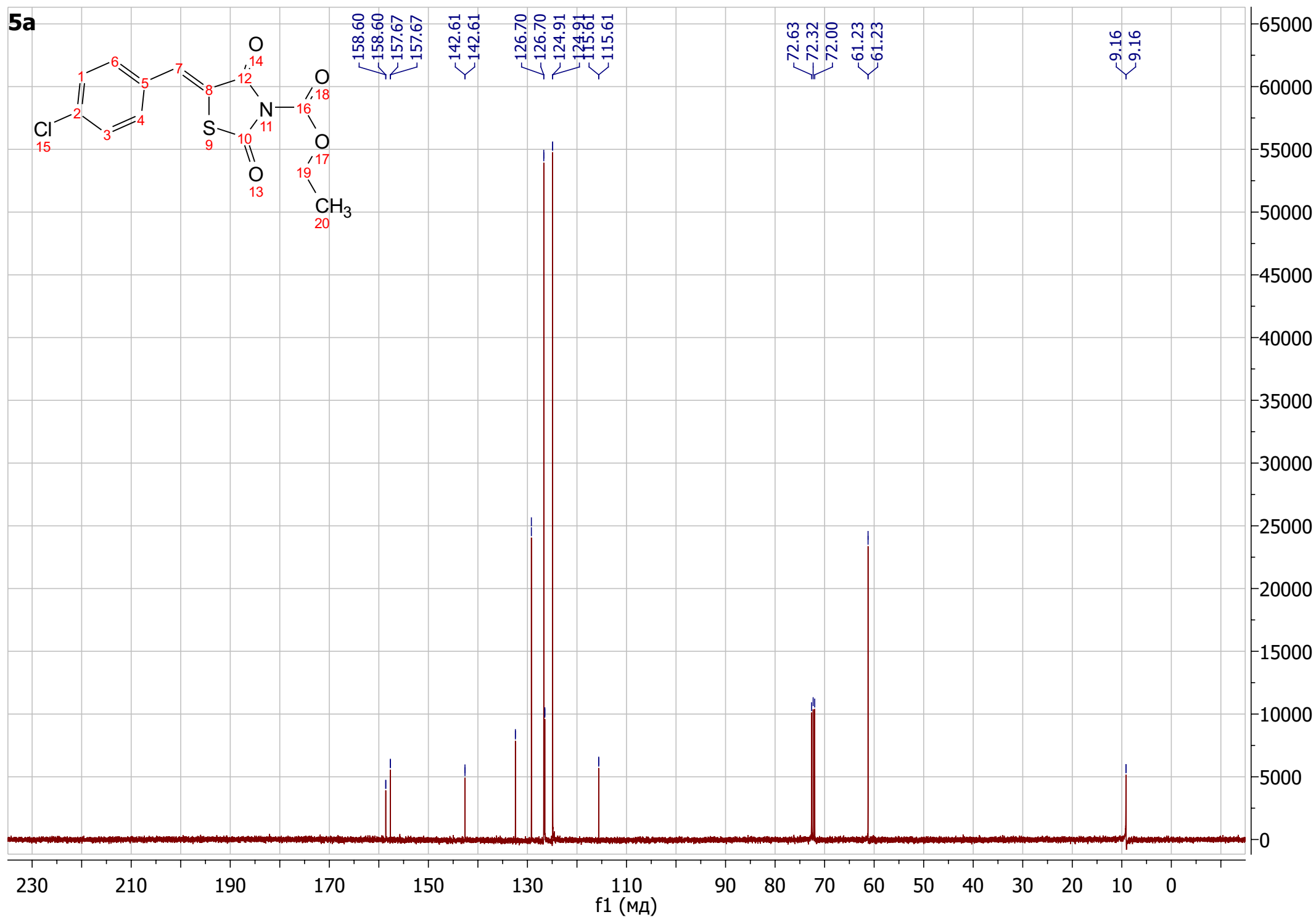
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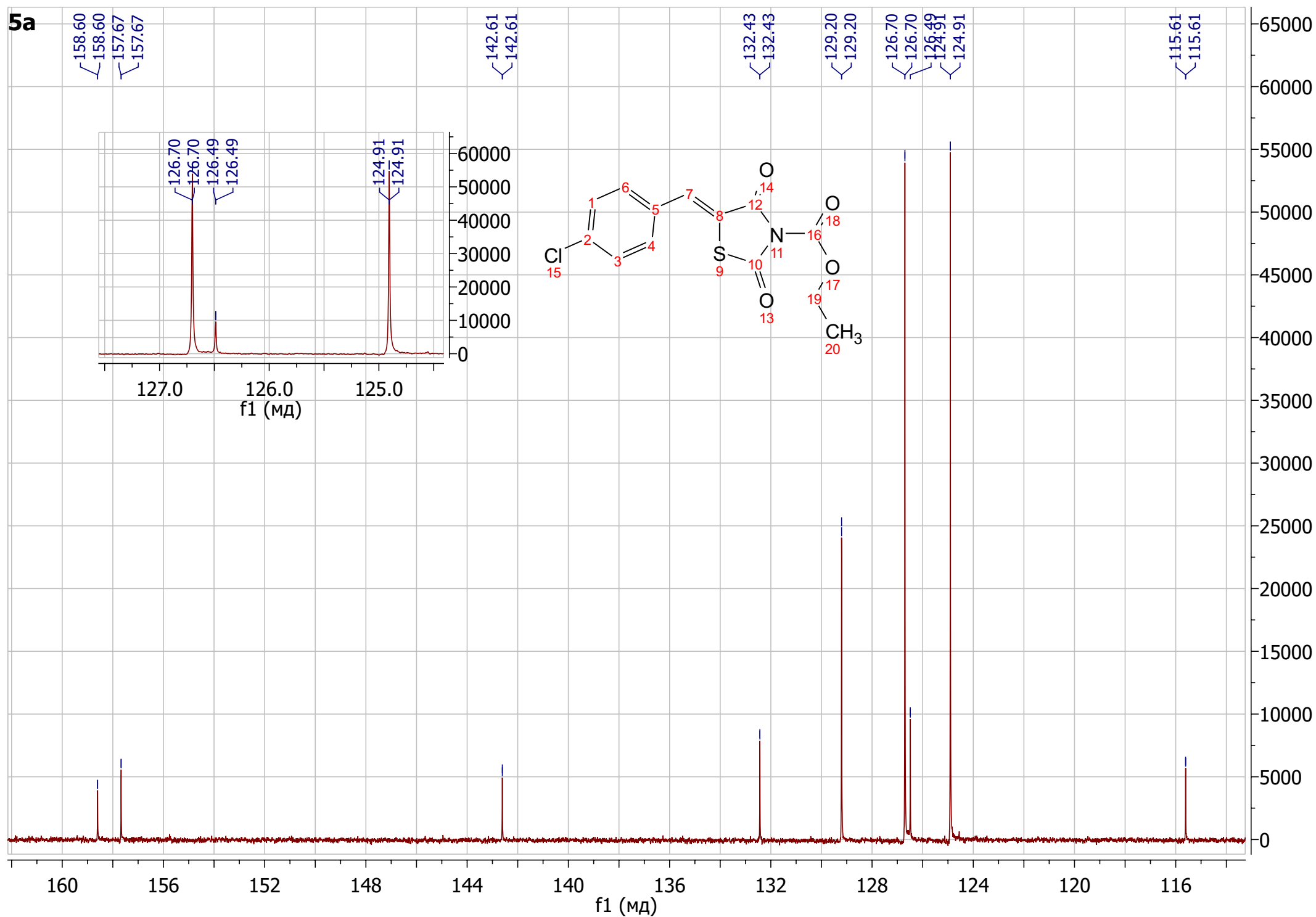




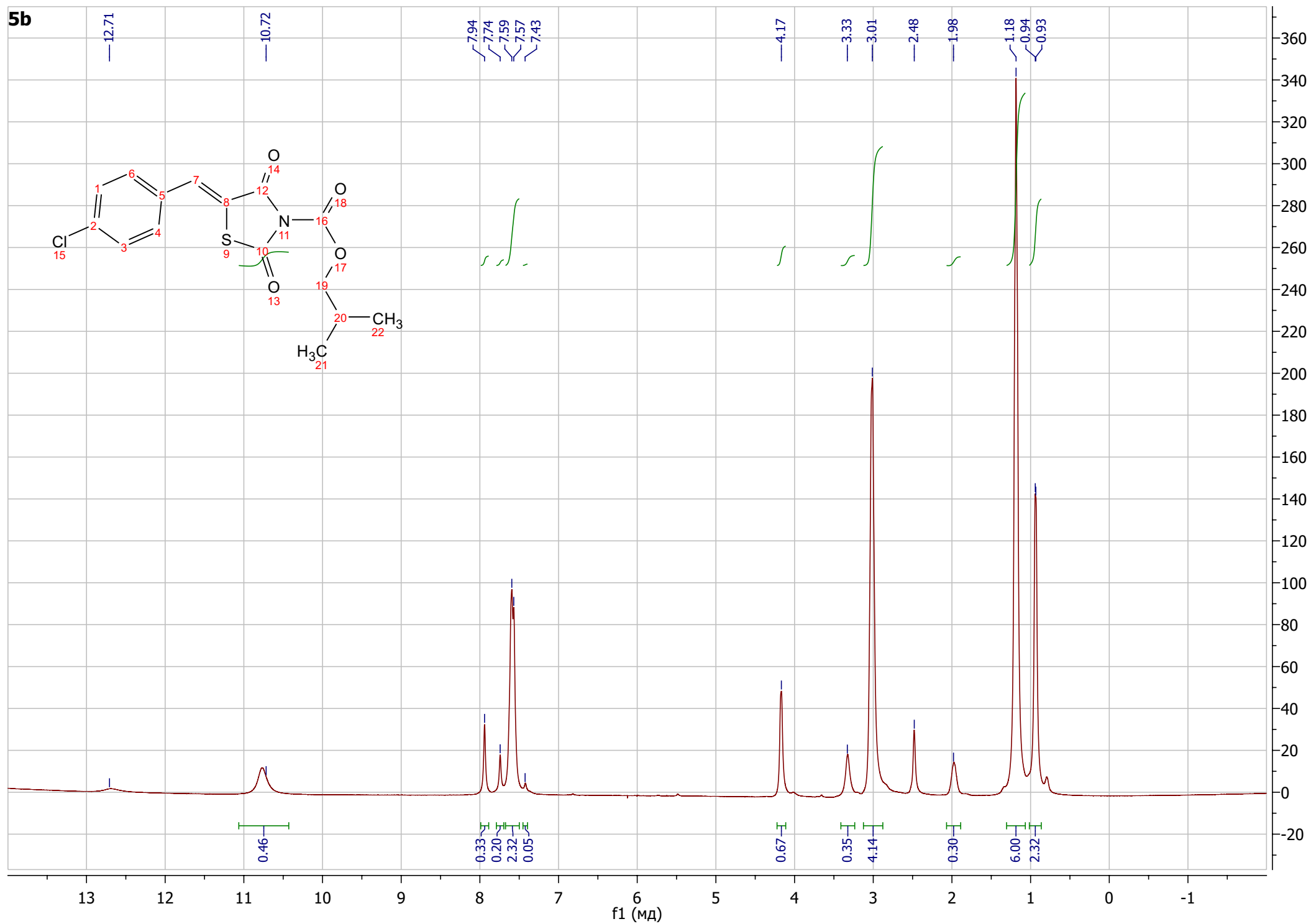
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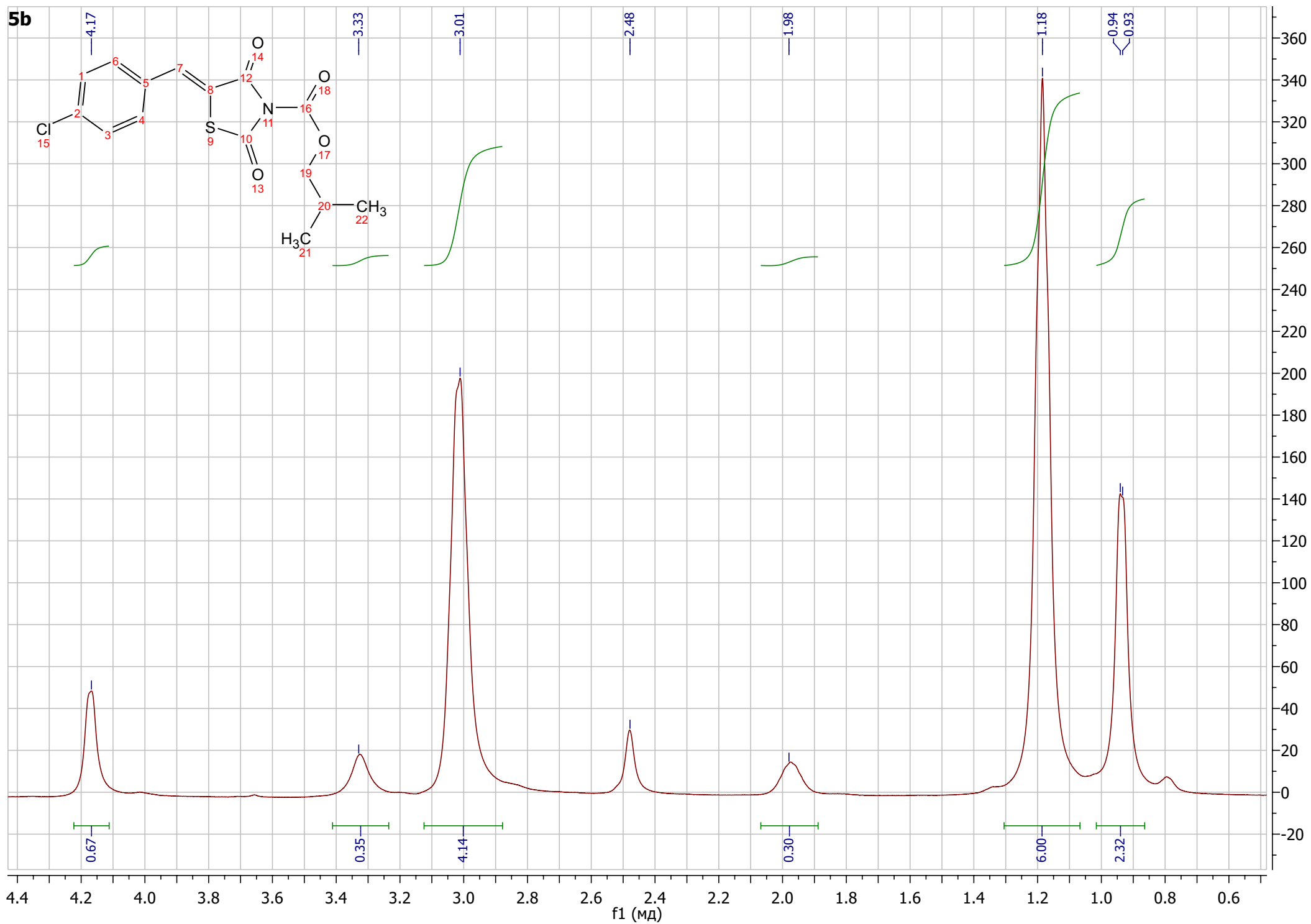
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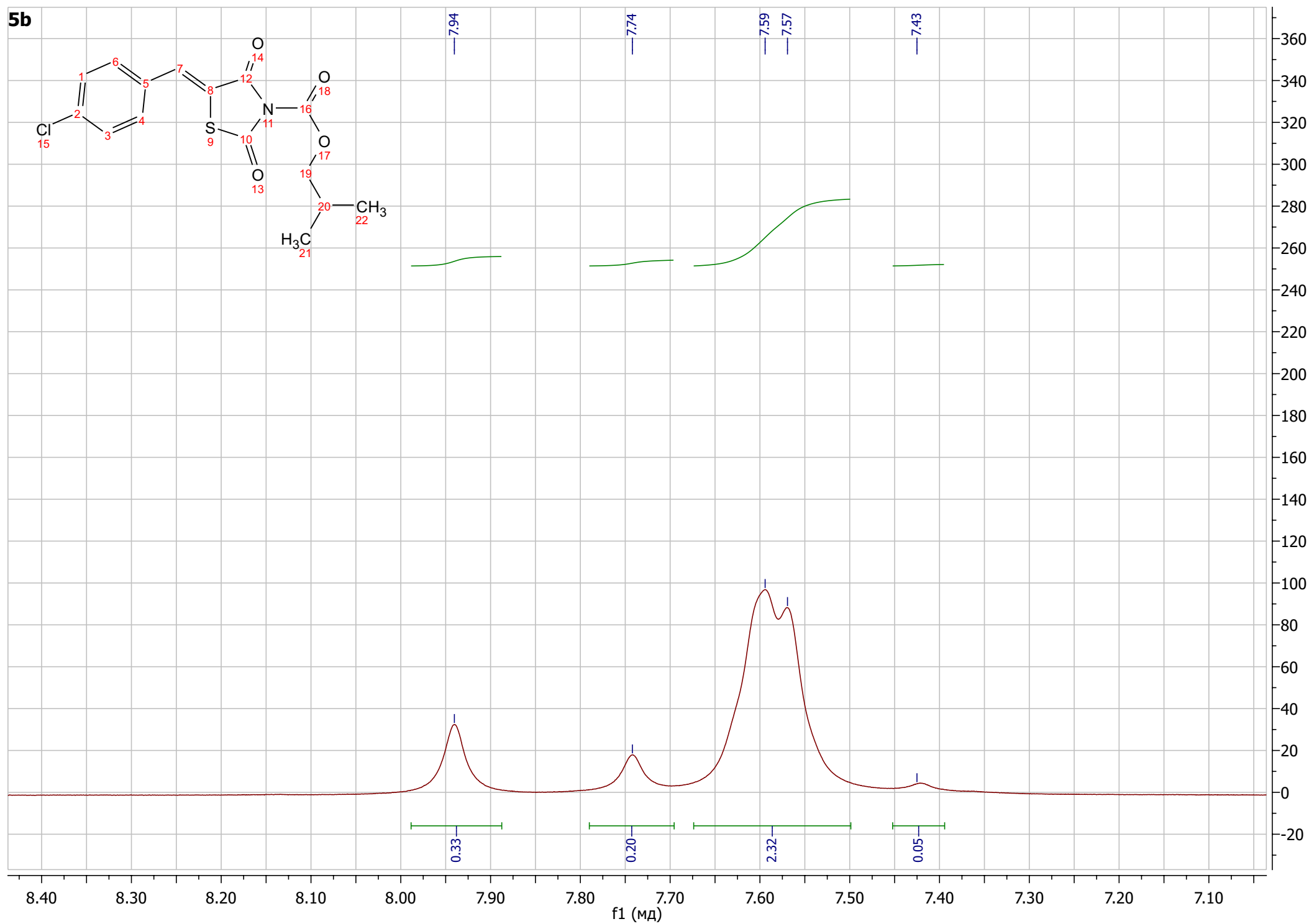
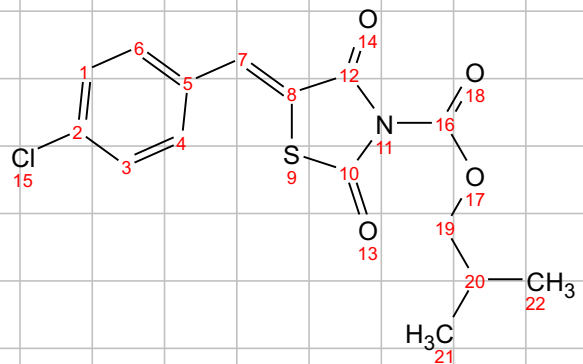
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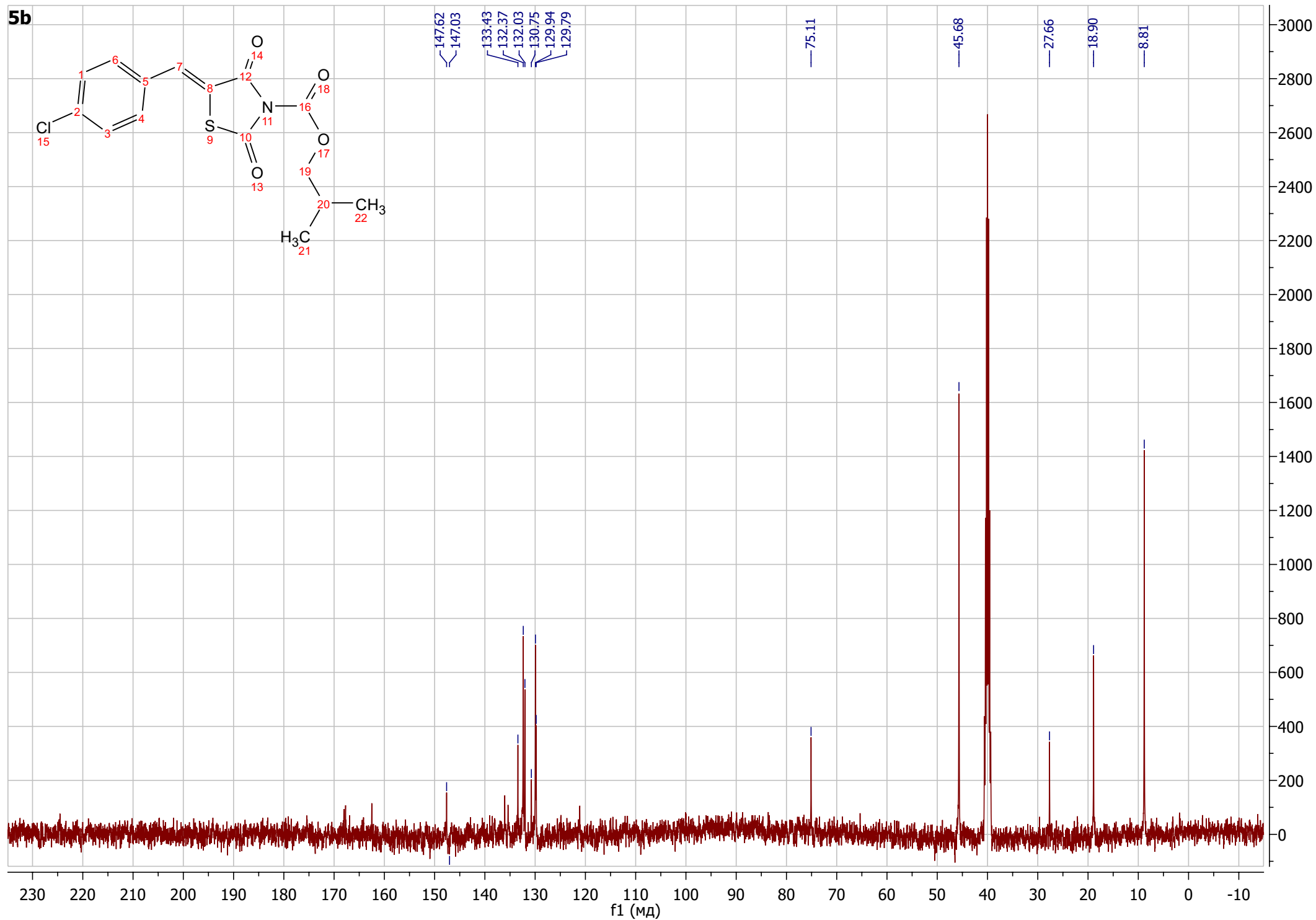
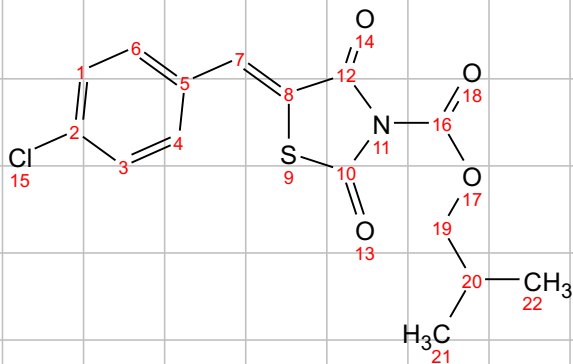
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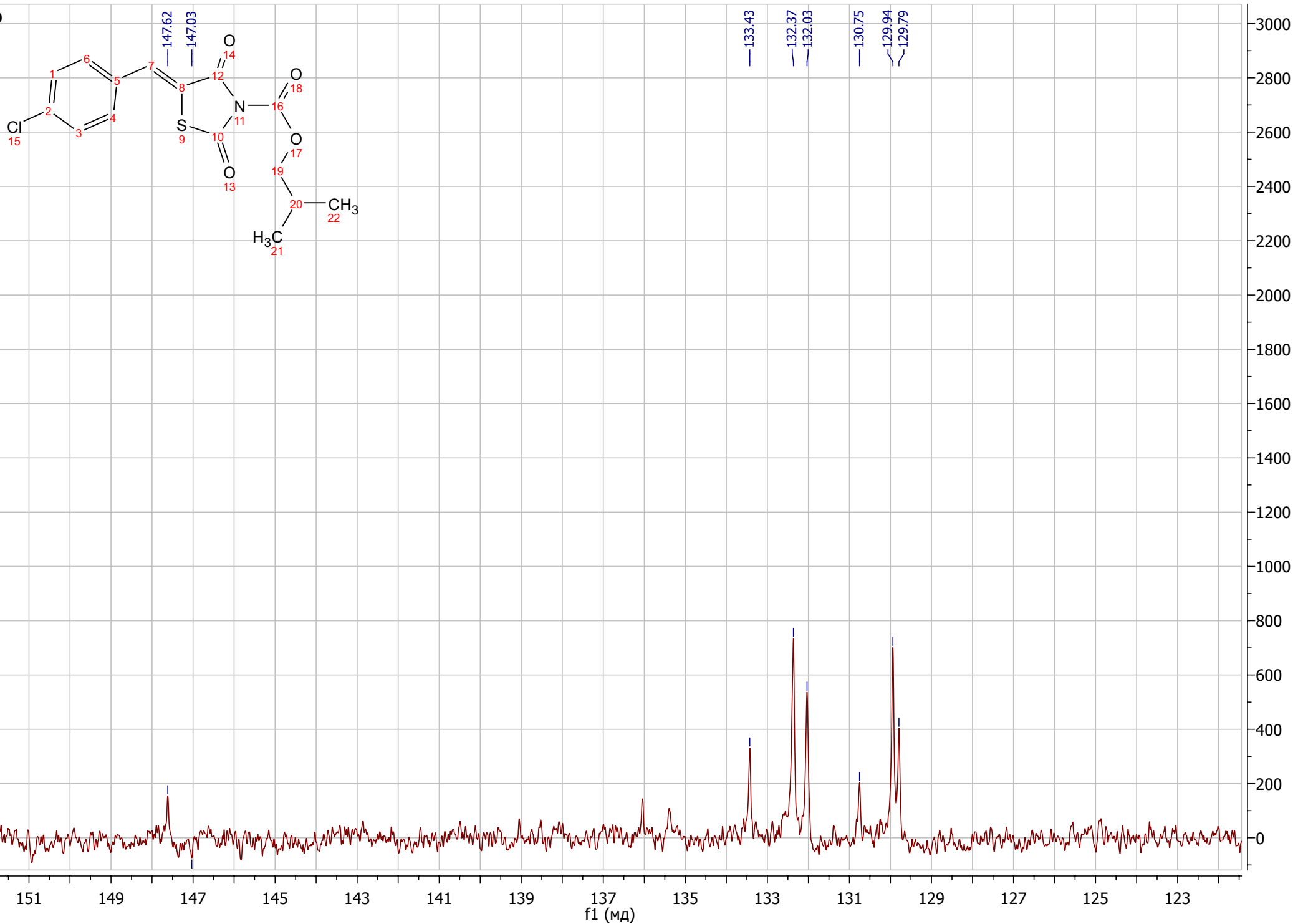
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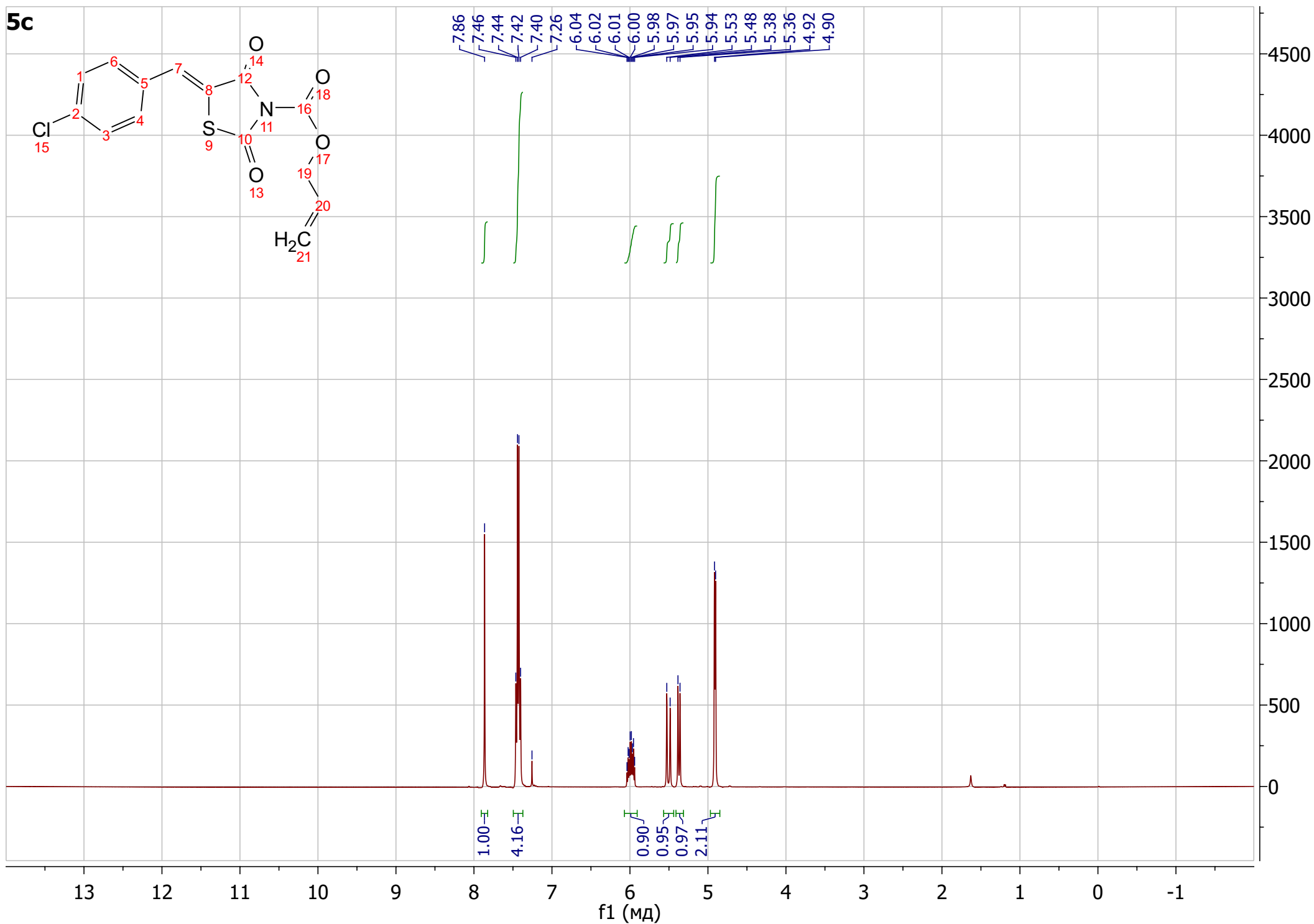
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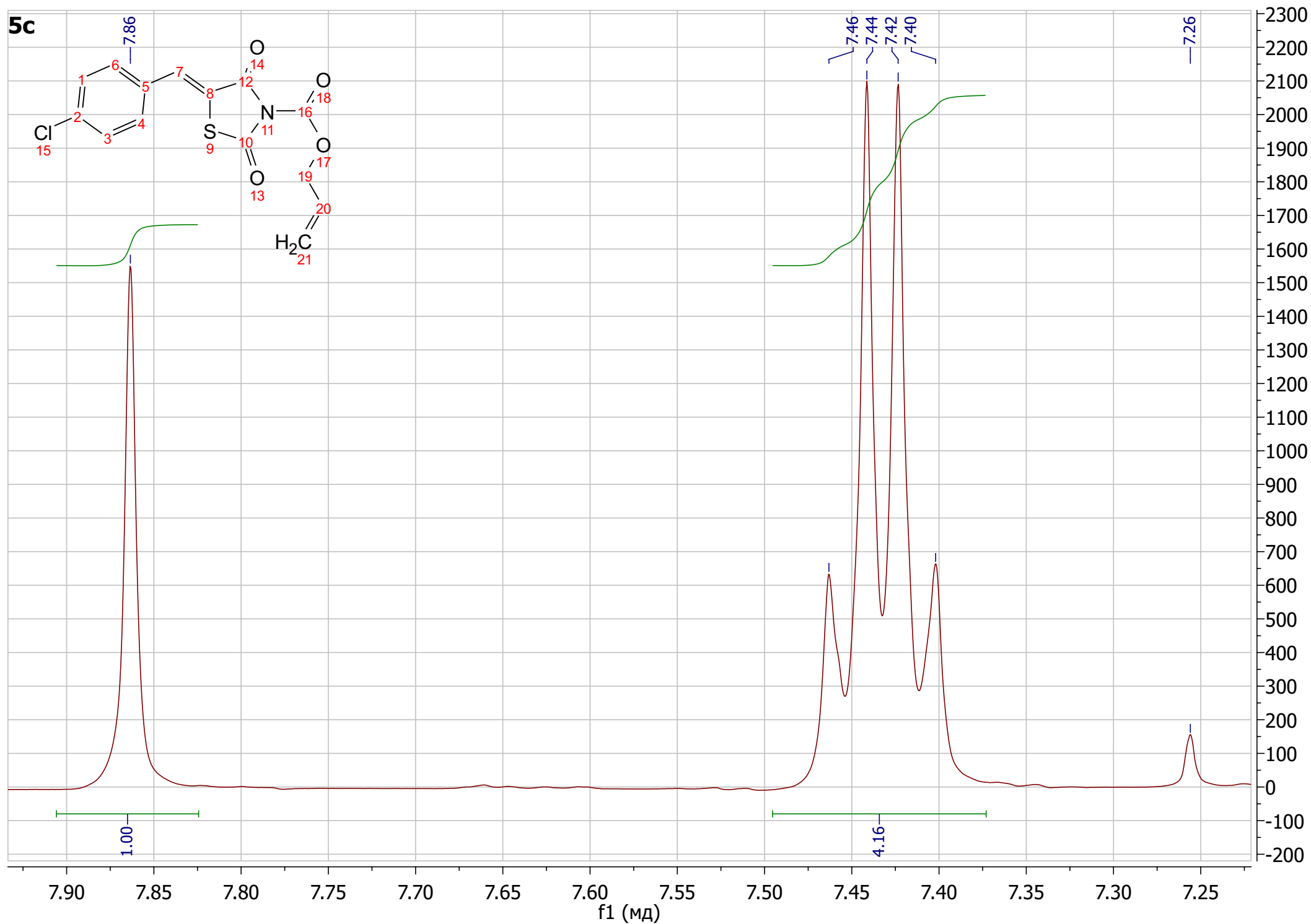
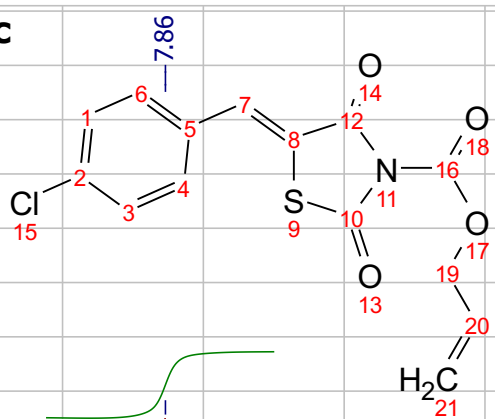


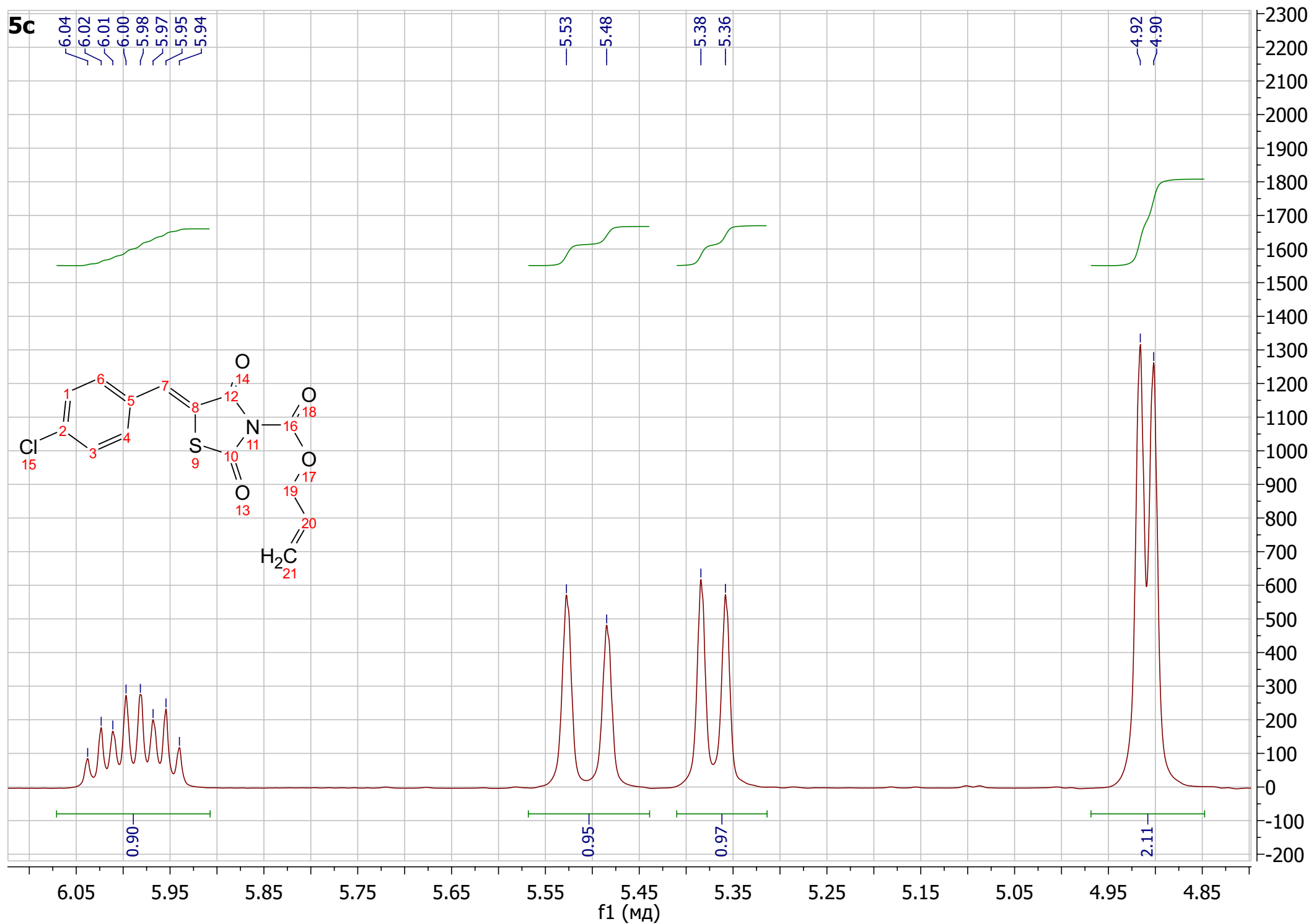
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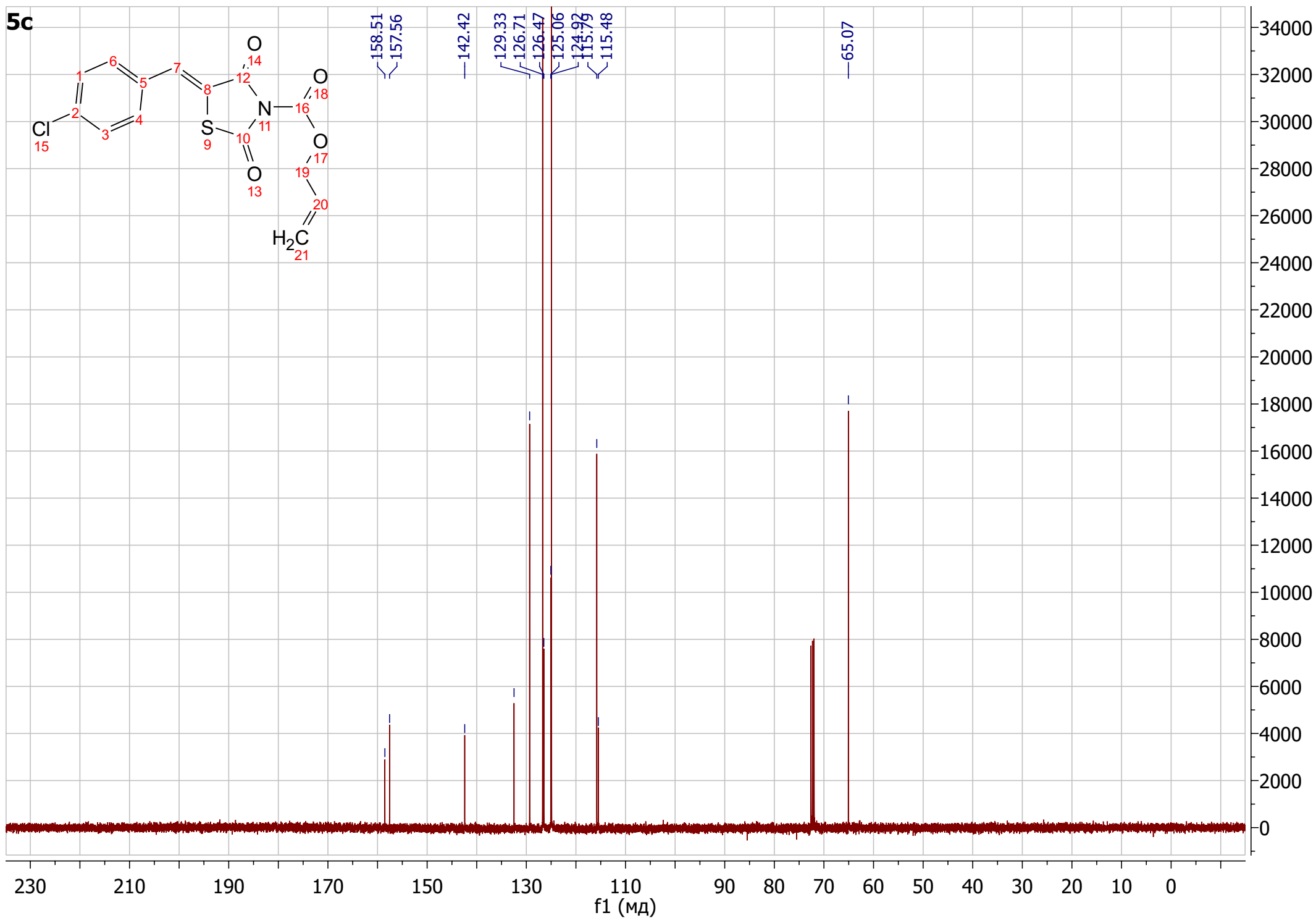
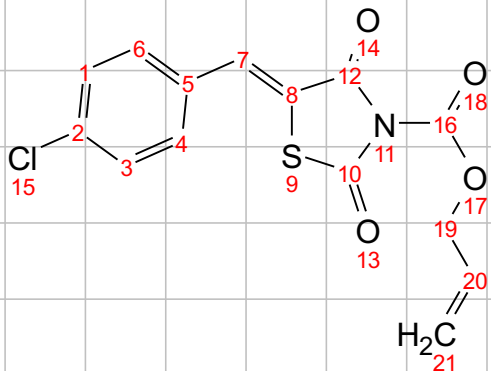


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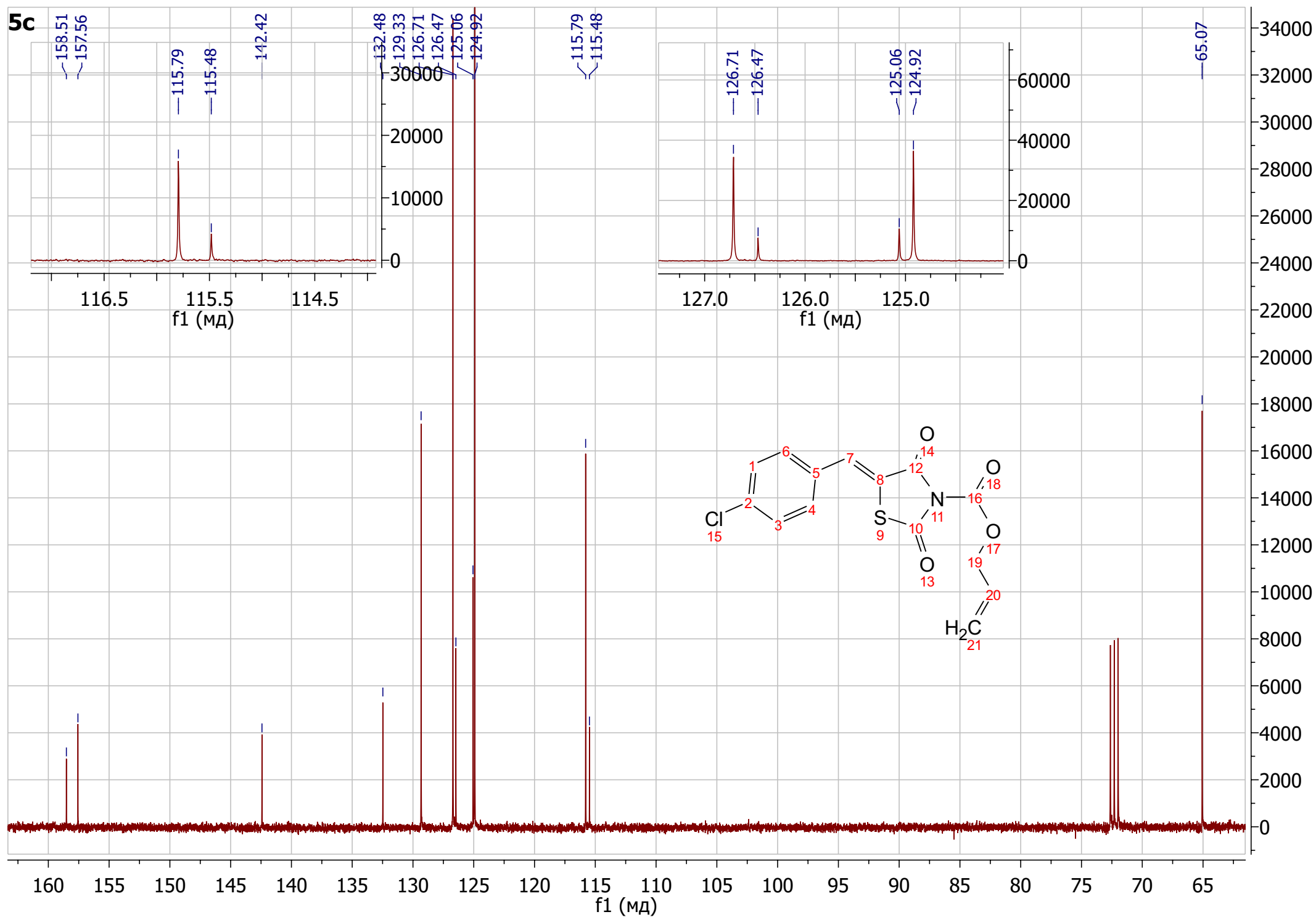


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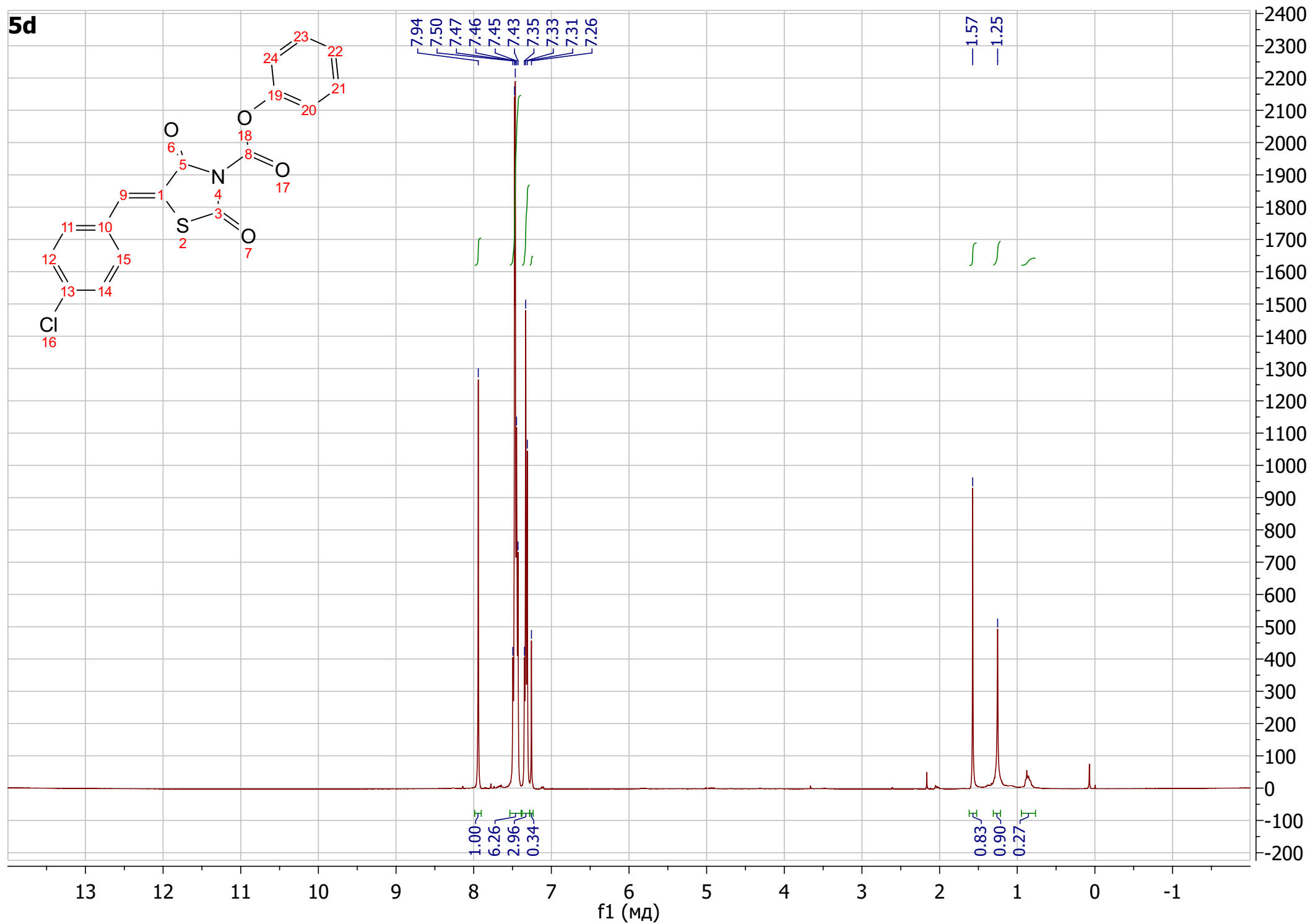
5c

5c

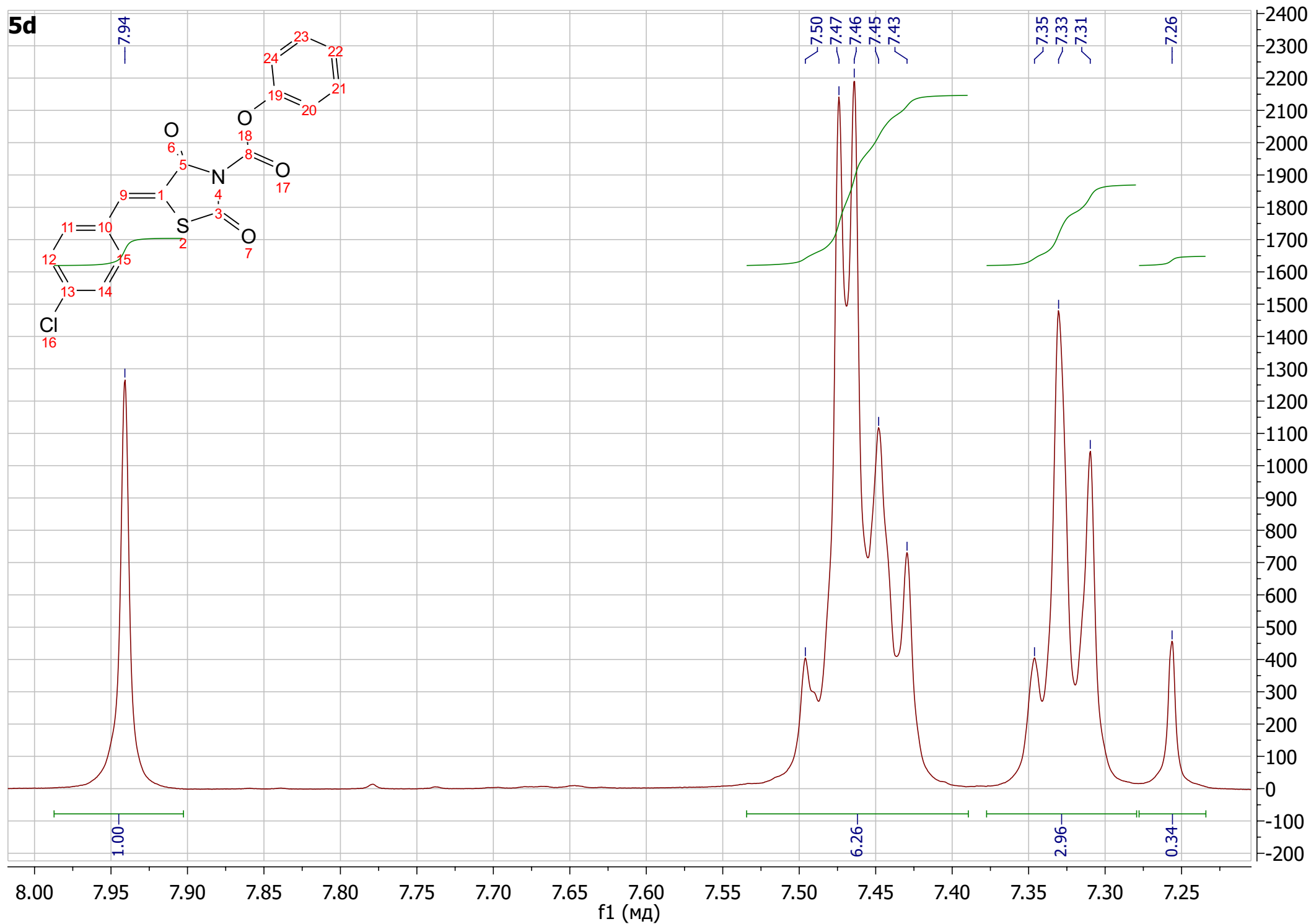
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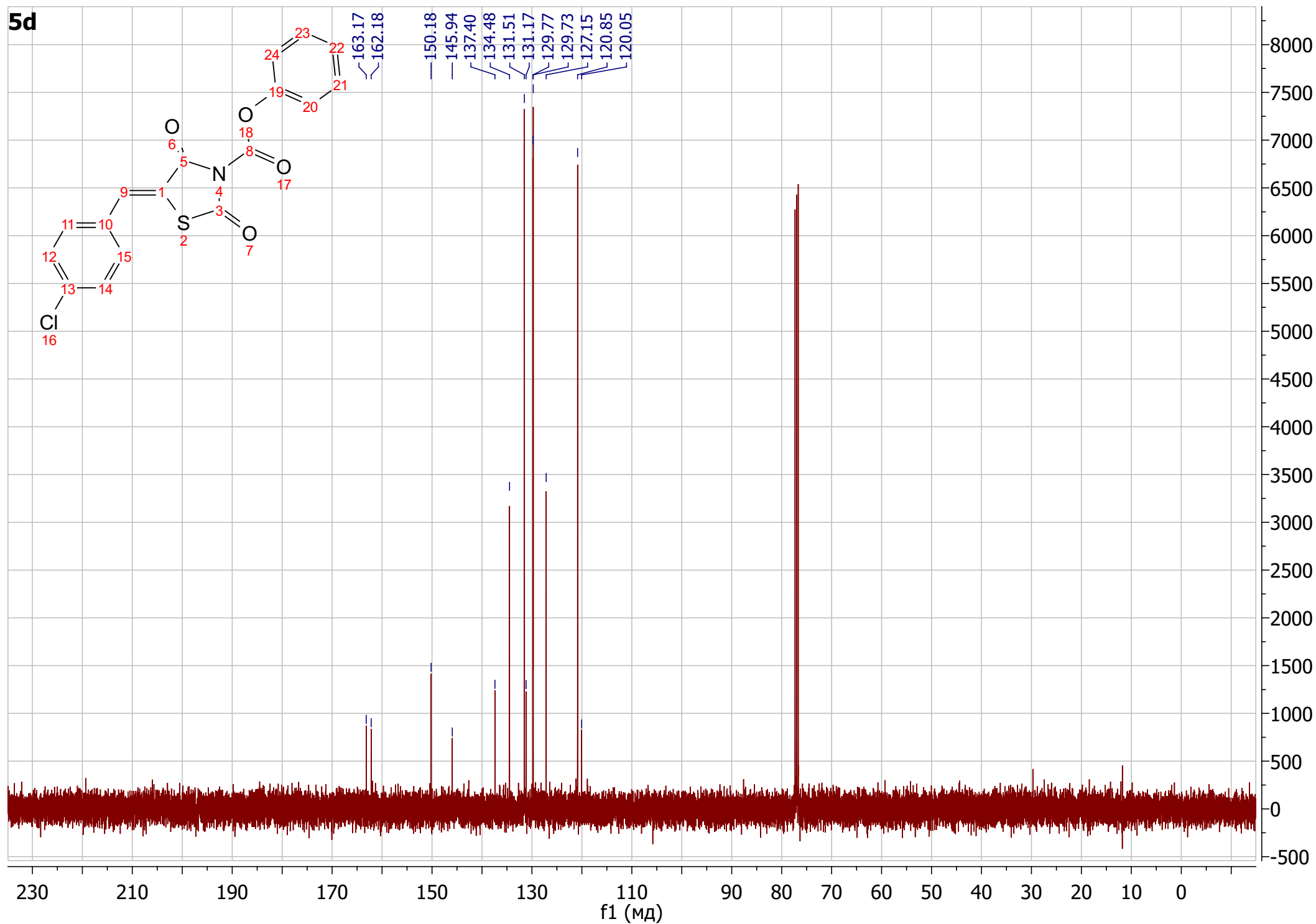
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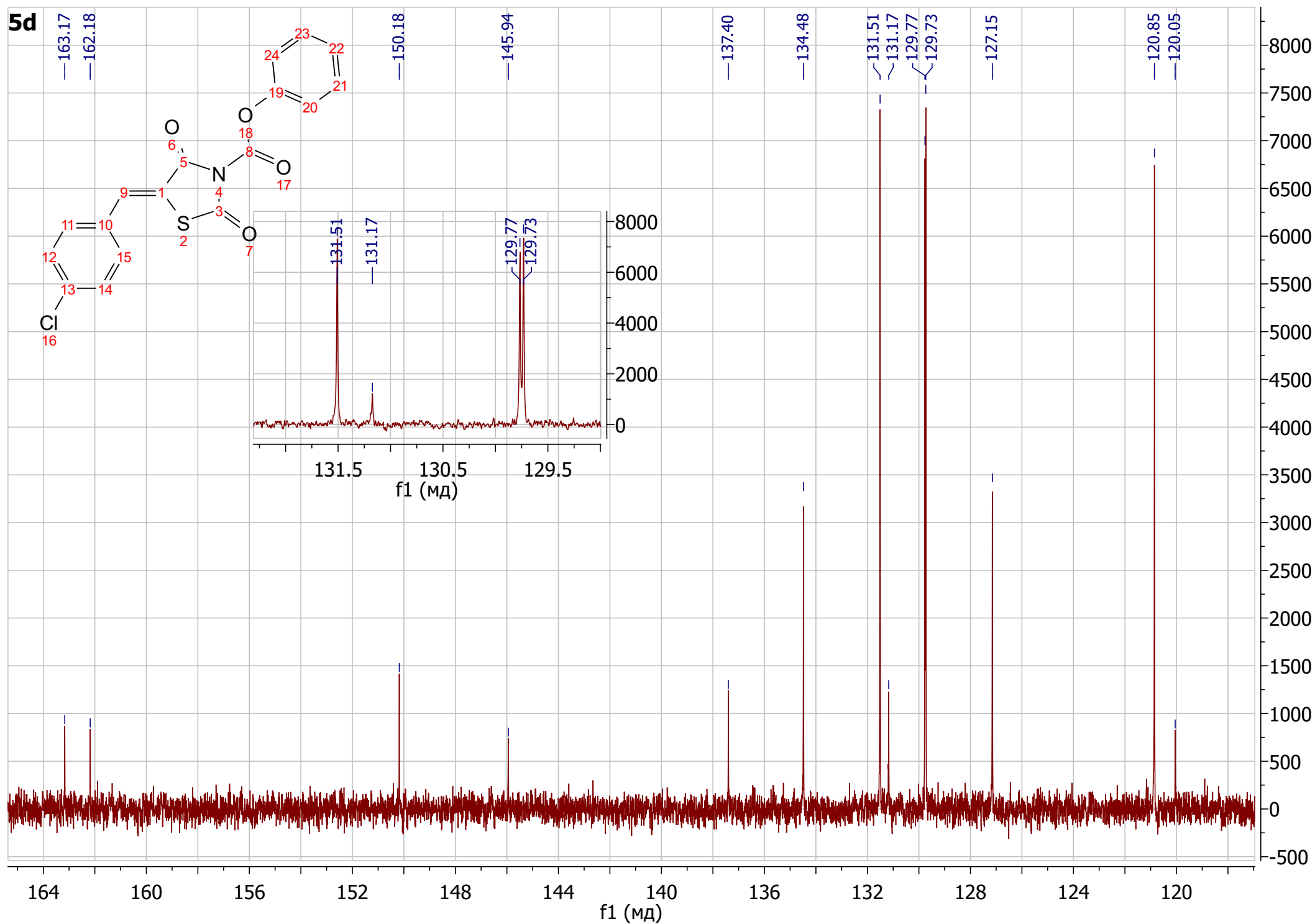


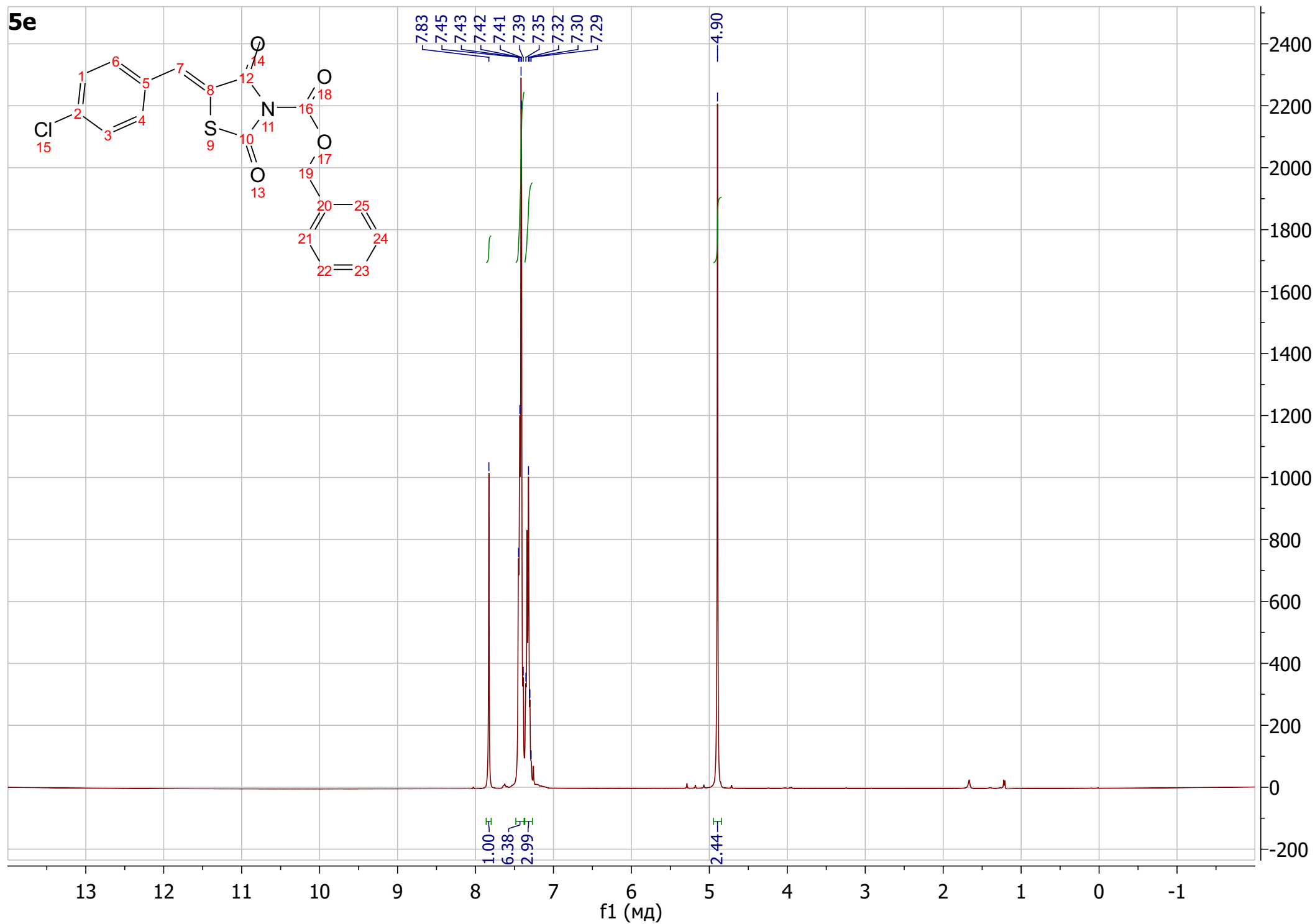
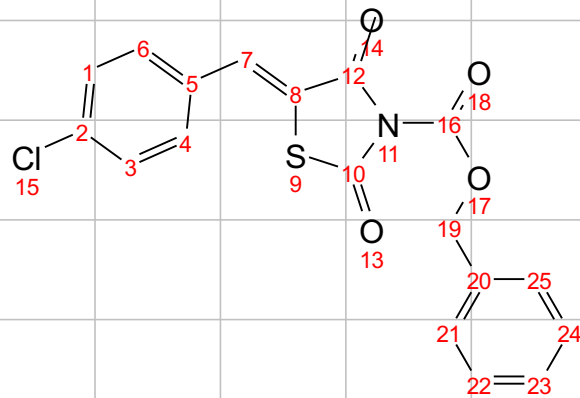
5d



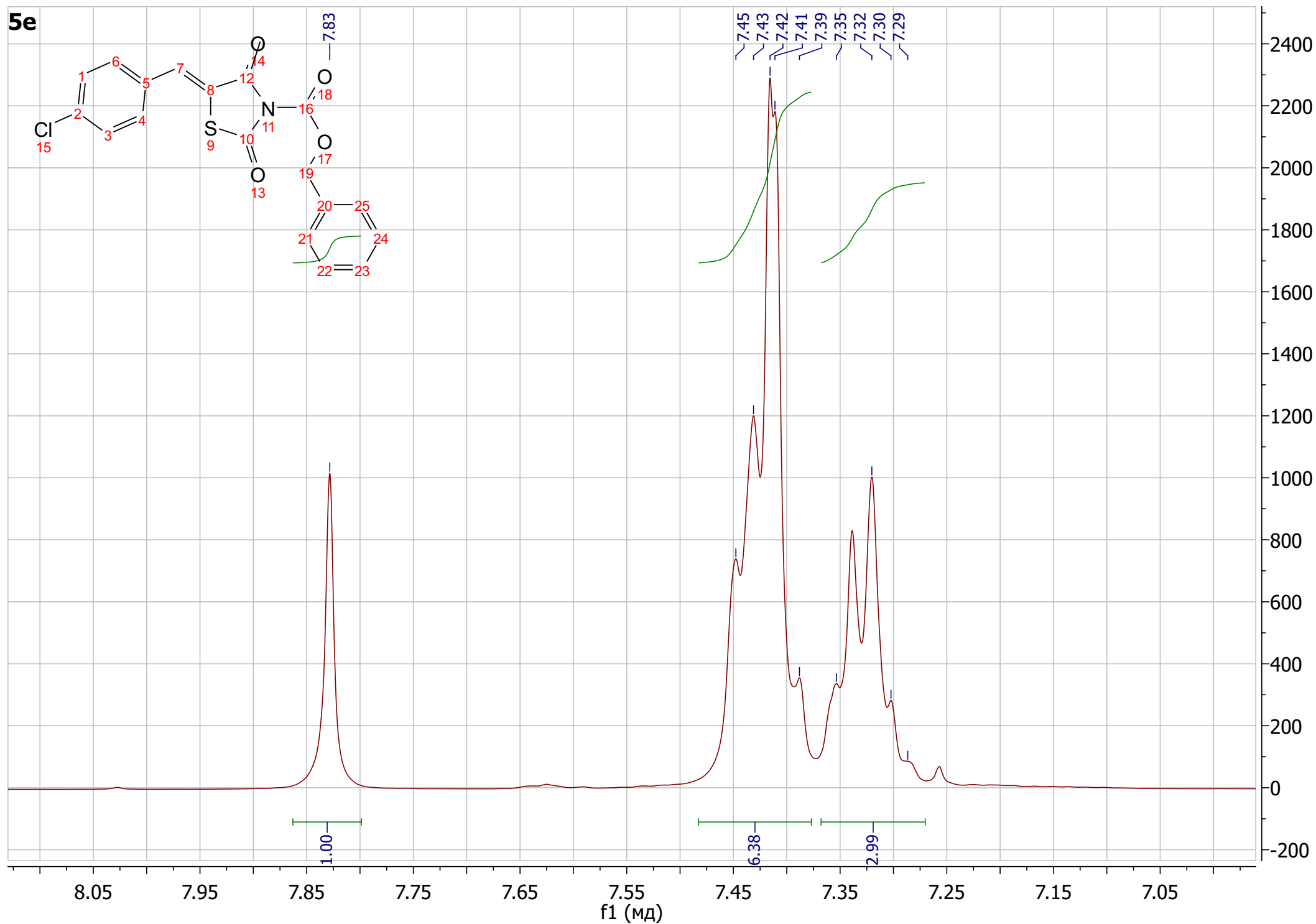
5d



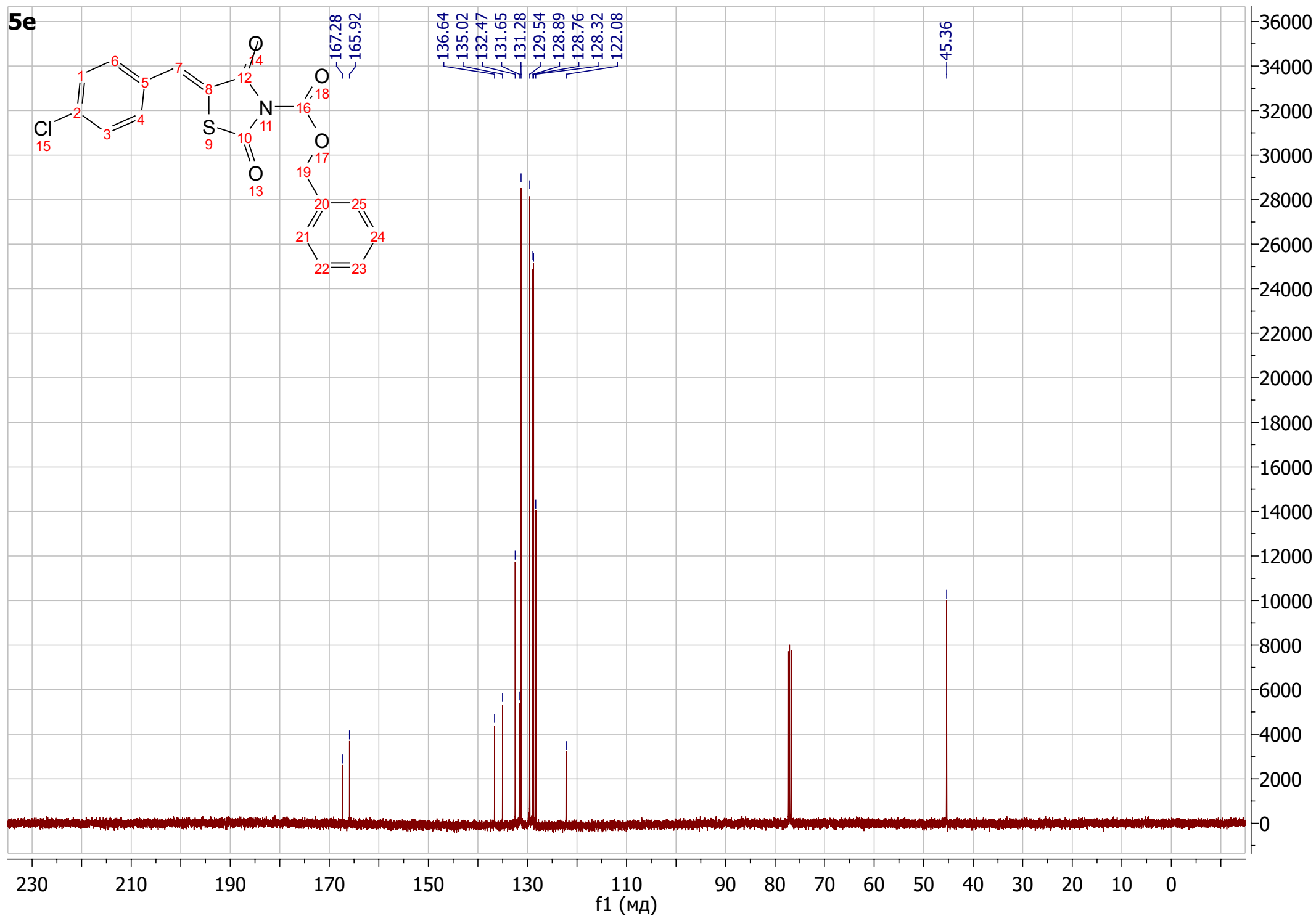
5d

5e

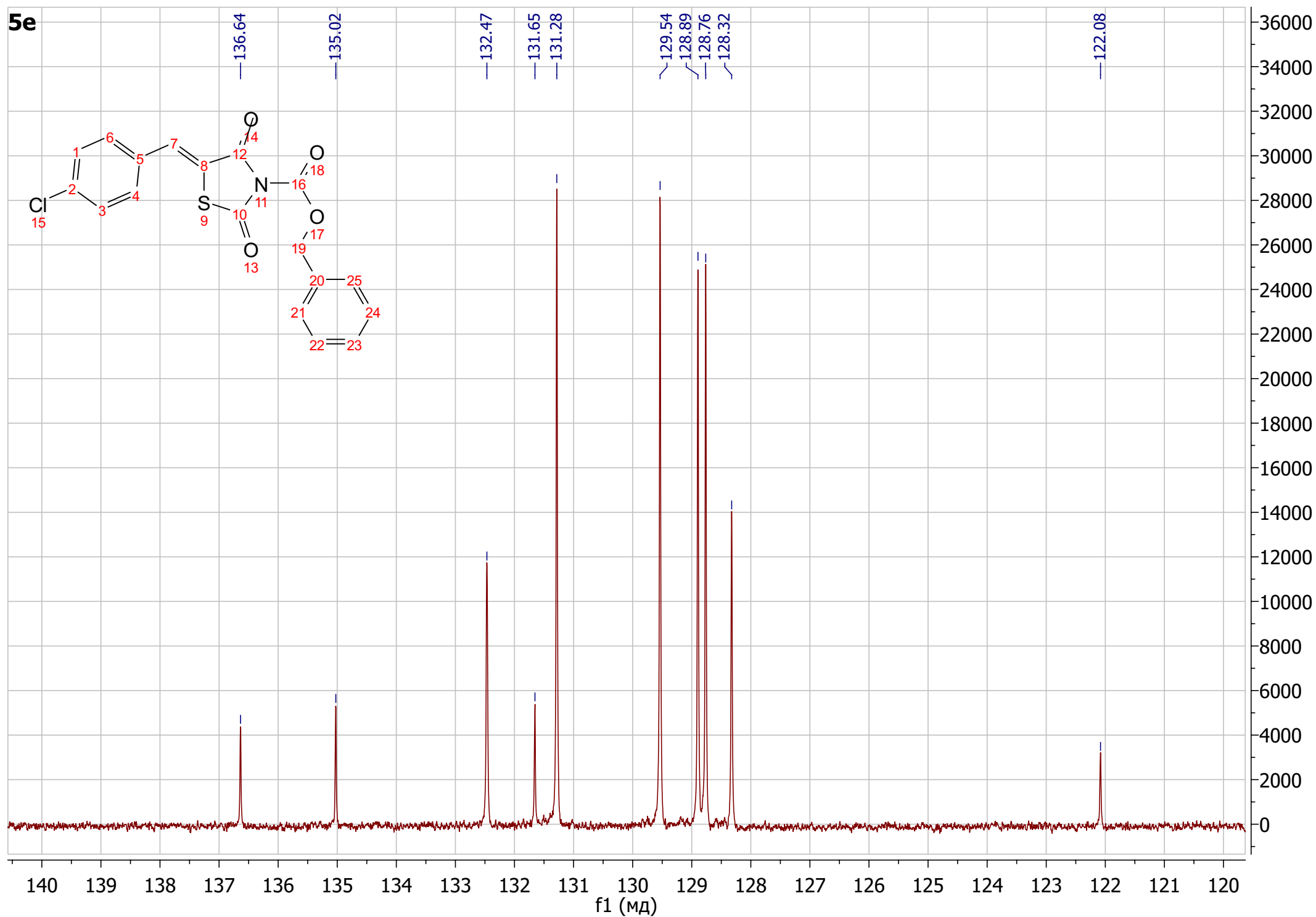
5e



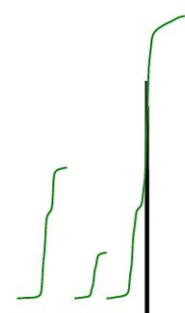
5e



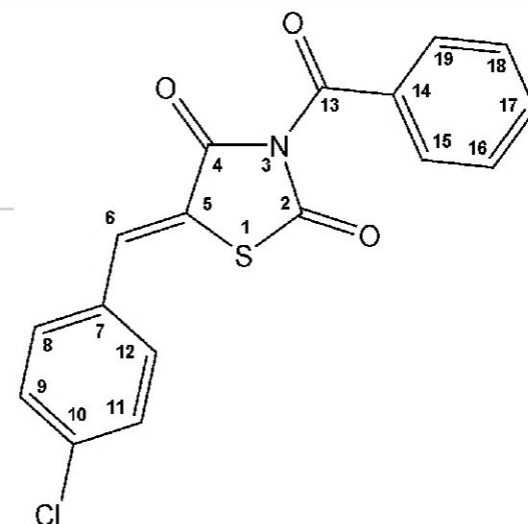
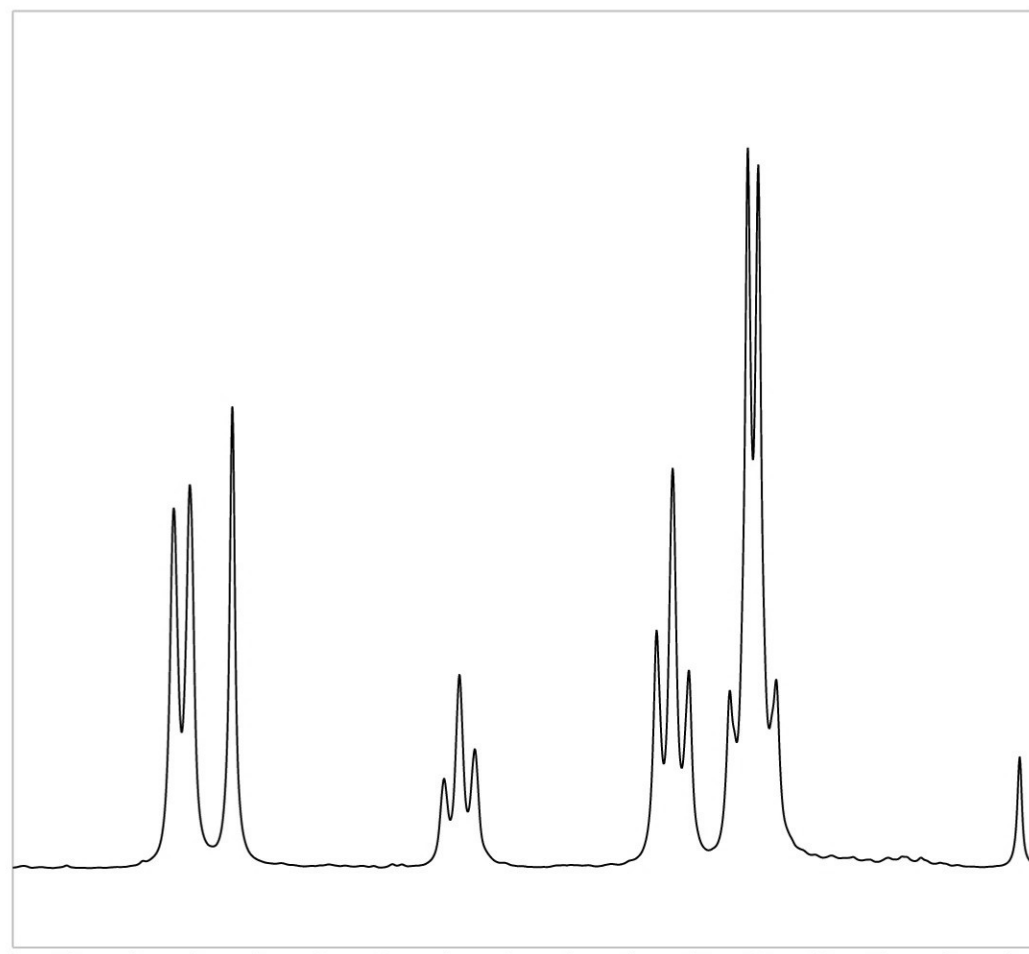
5e



^1H , CDCl_3
7a



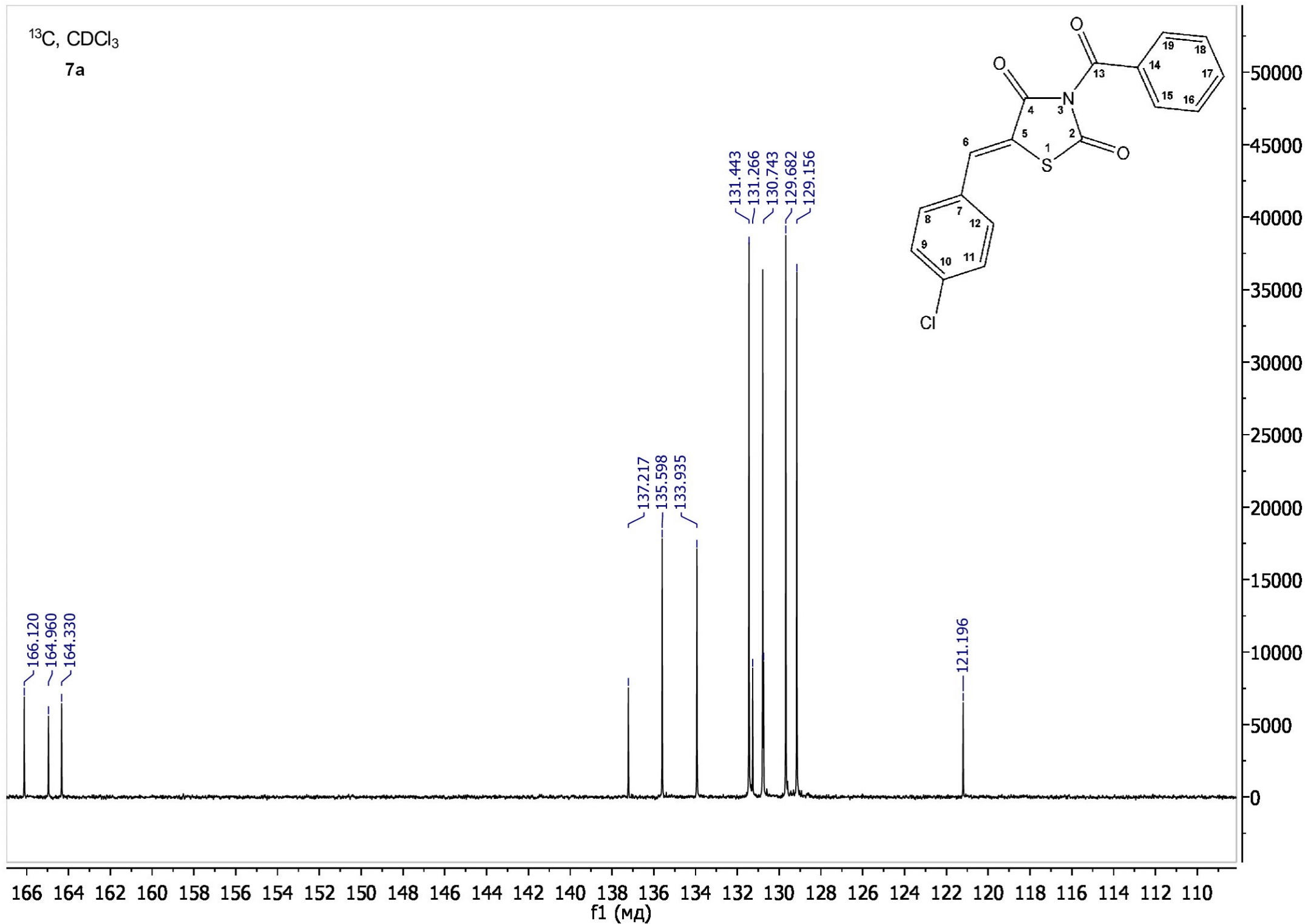
2.86
1.00
6.18



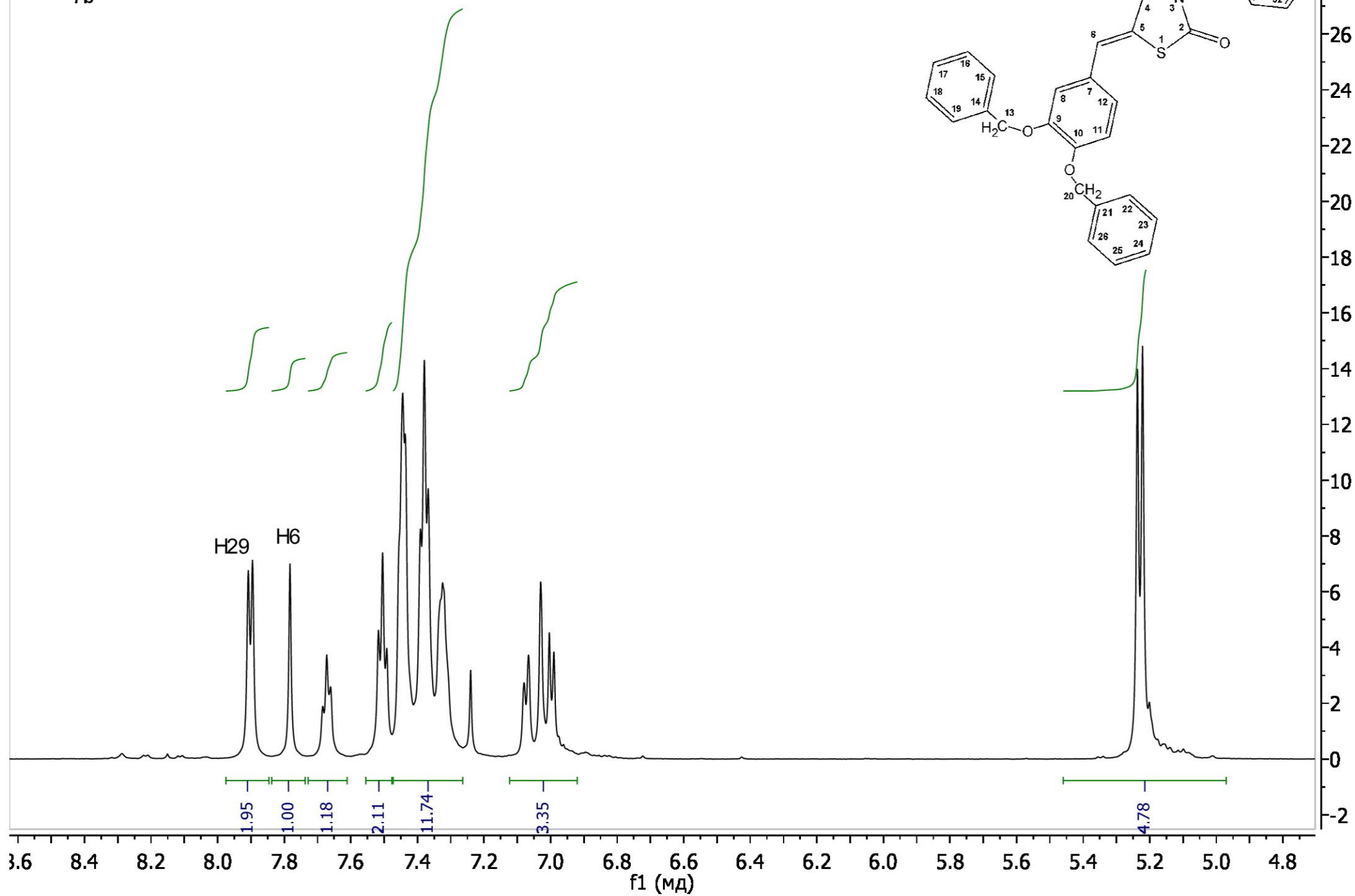
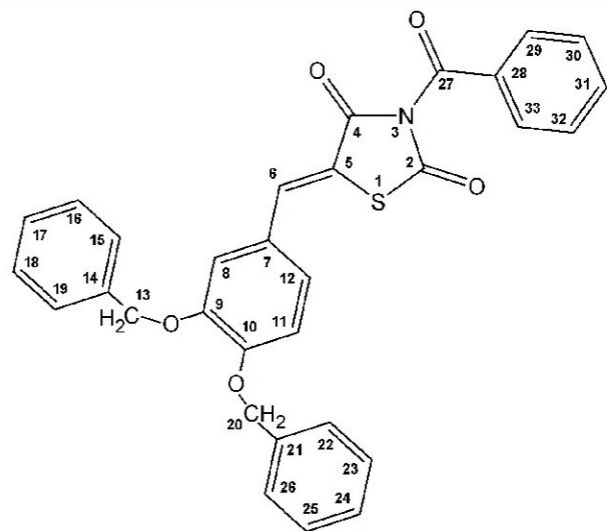
8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0
f1 (MД)

^{13}C , CDCl_3

7a

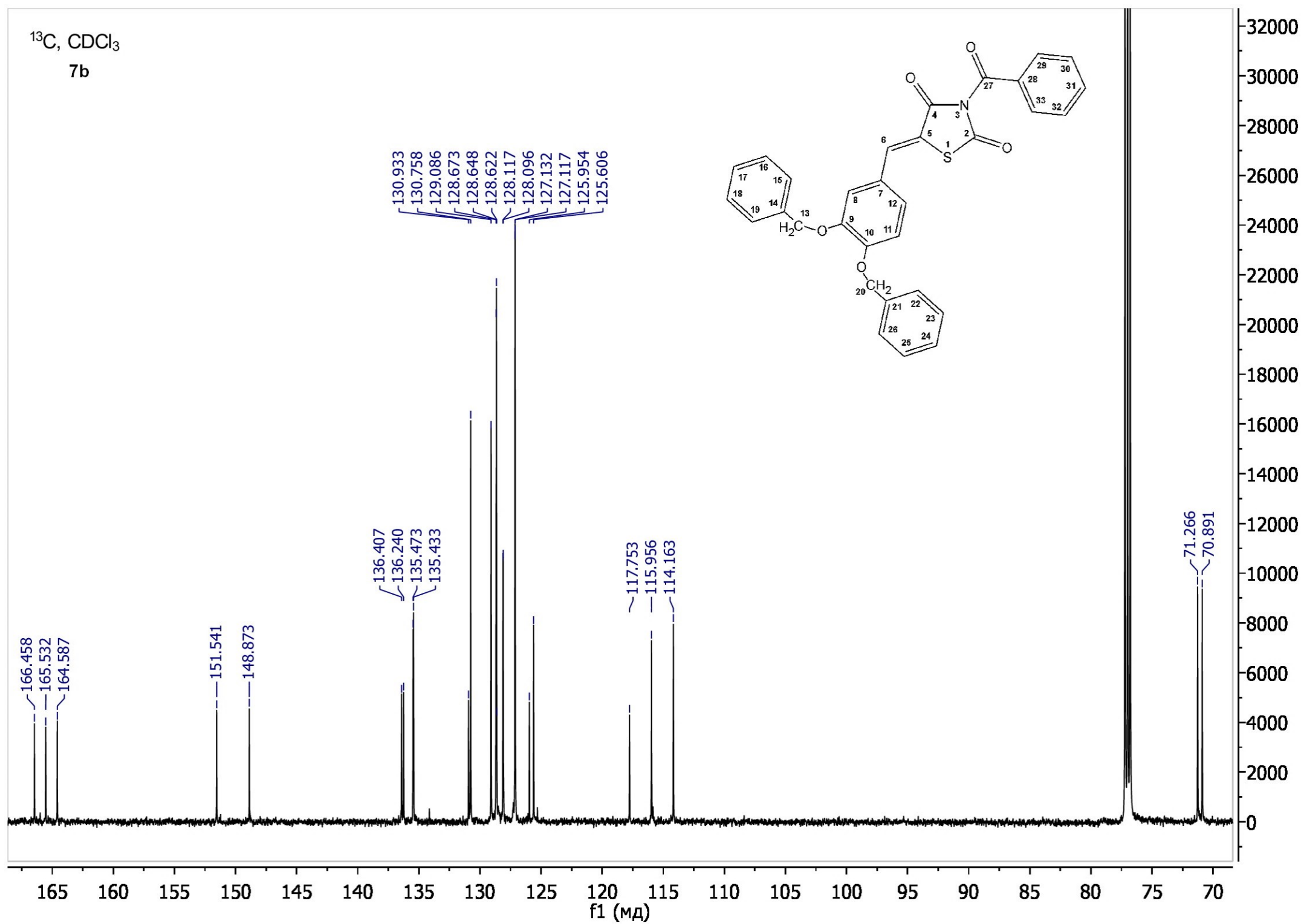


^1H , CDCl_3
7b

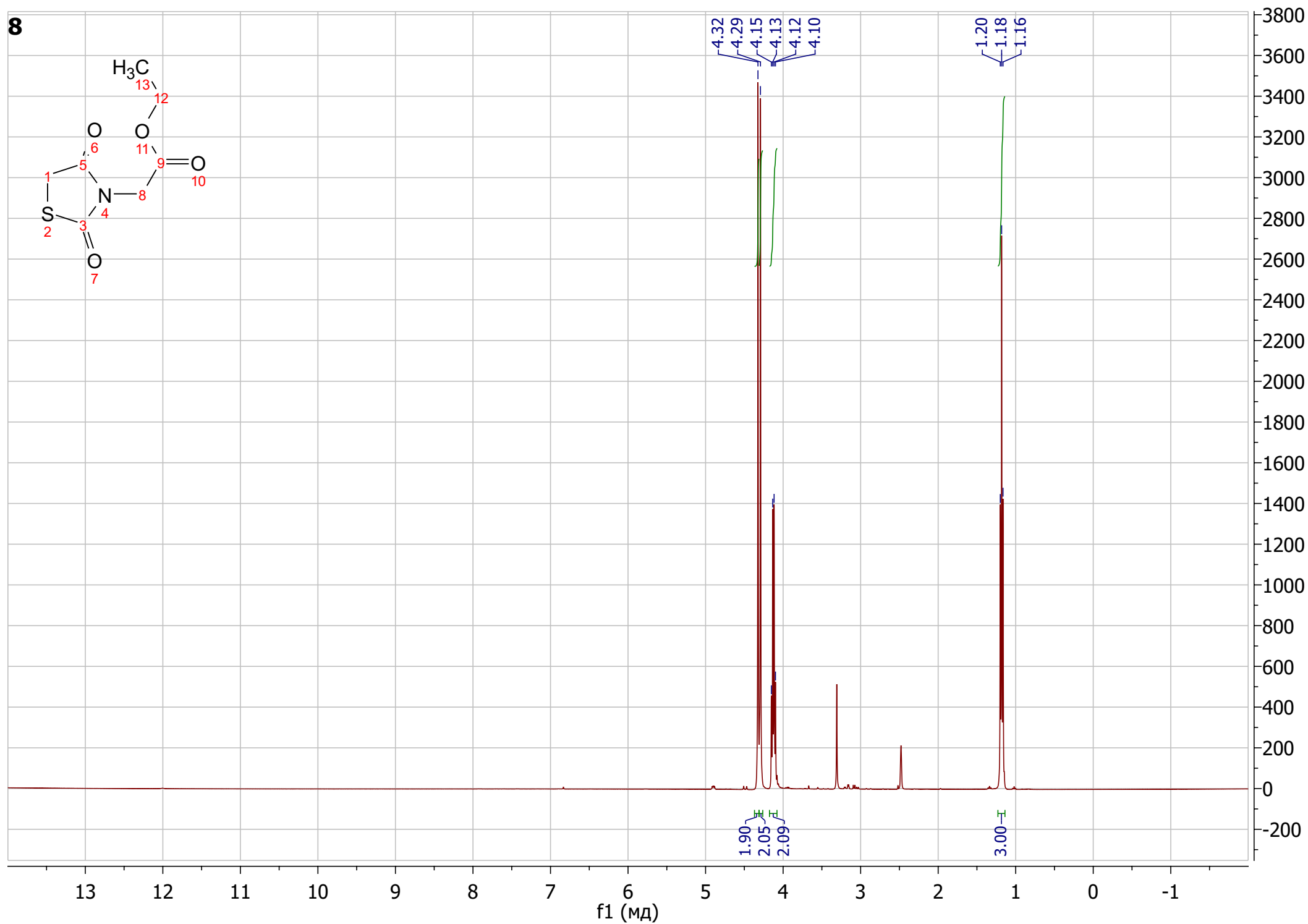
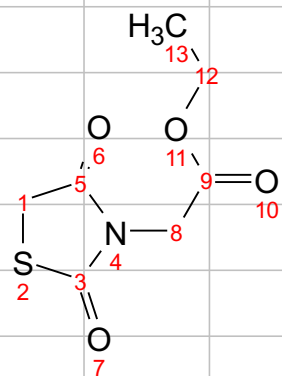


^{13}C , CDCl_3

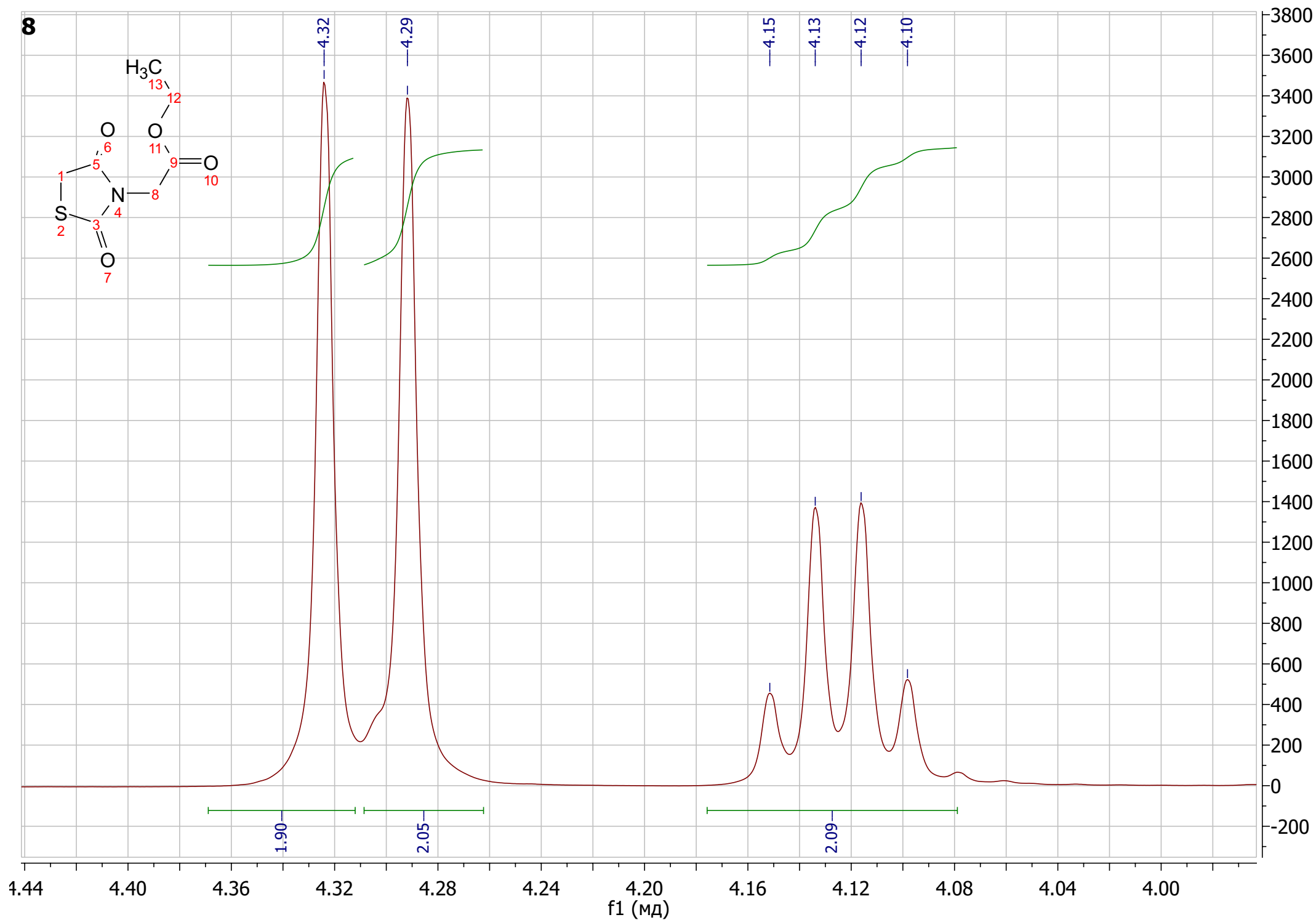
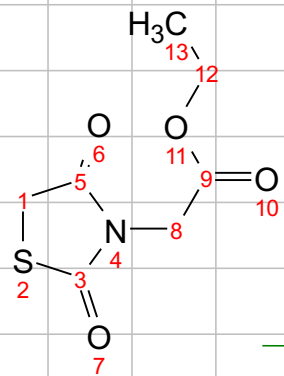
7b



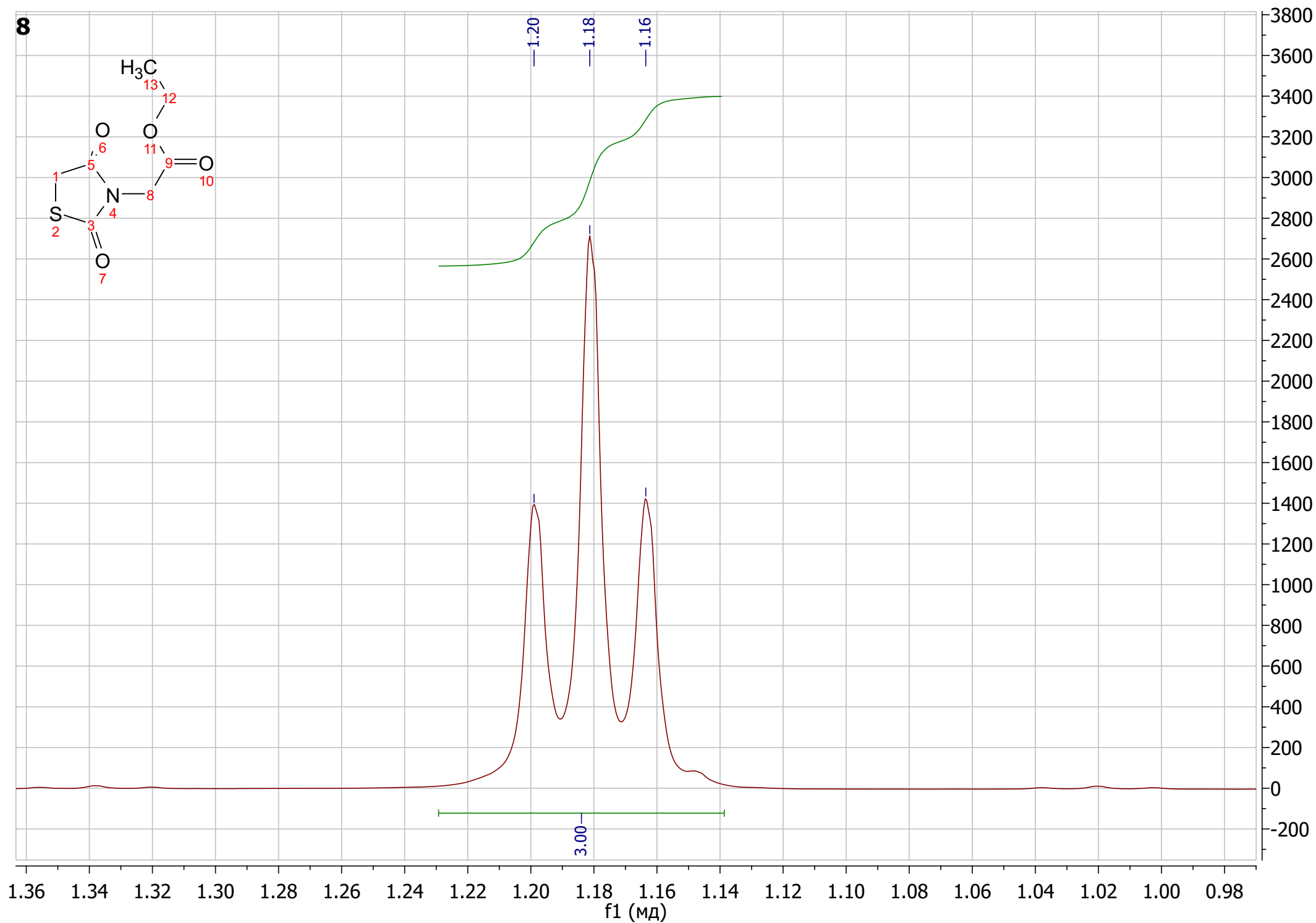
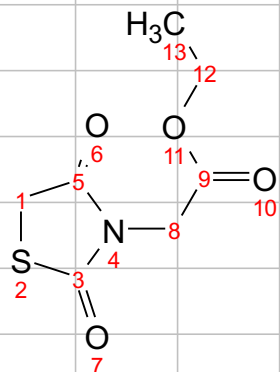
8



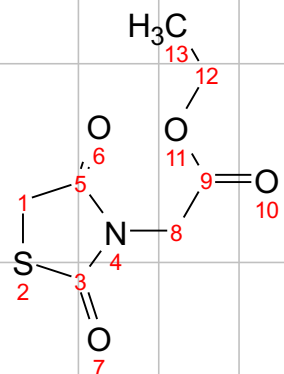
8



8



8



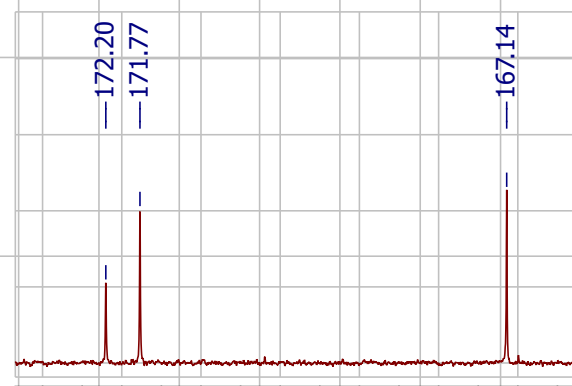
172.20
171.77
167.14

61.93

42.34

34.43

14.36



172

f1 (MД)

168

230

210

190

170

150

130

f1 (MД)

110

90

80

70

60

50

40

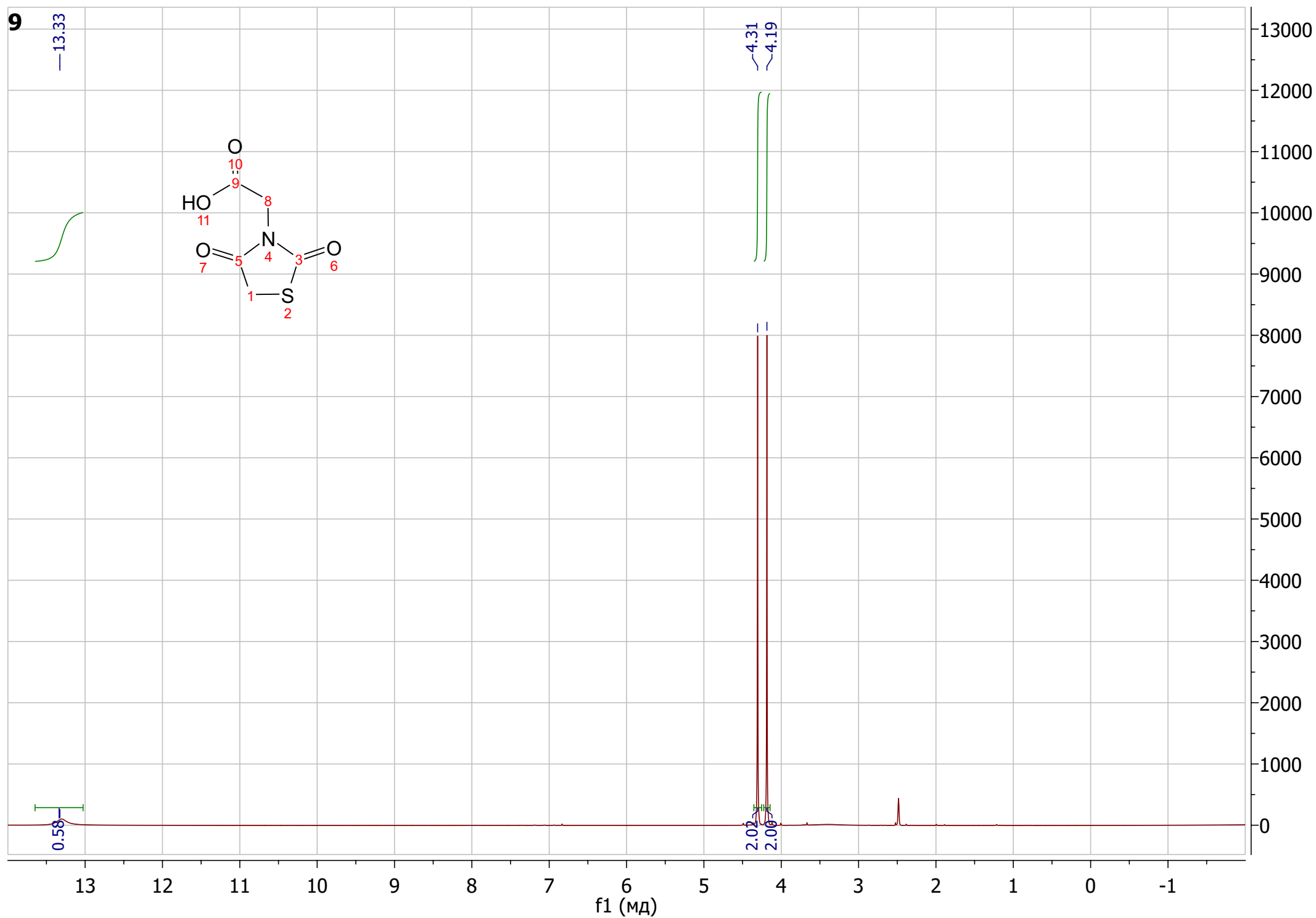
30

20

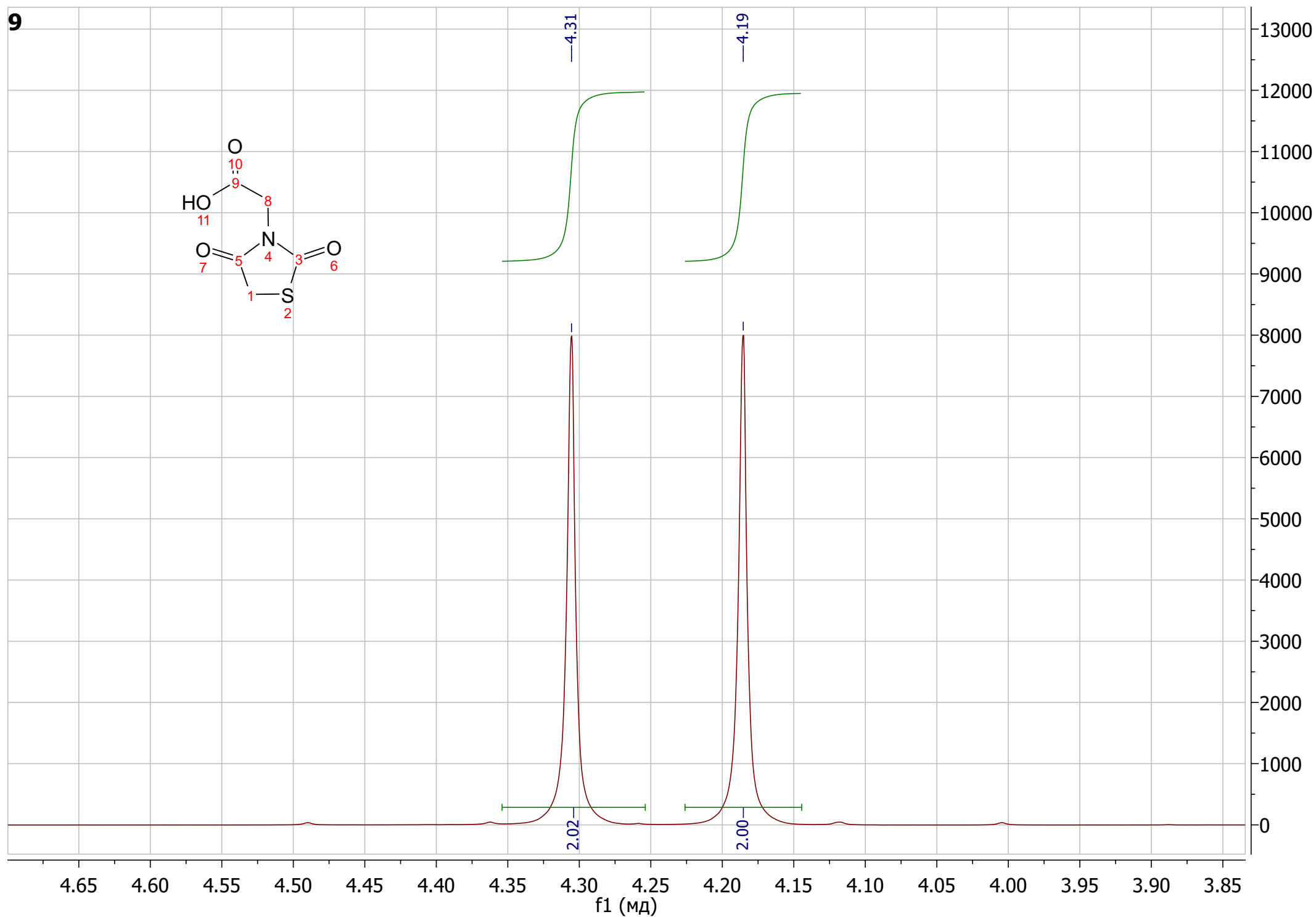
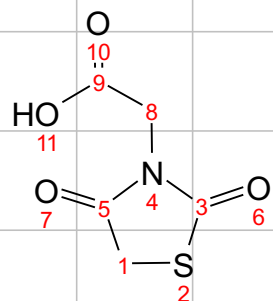
10

0

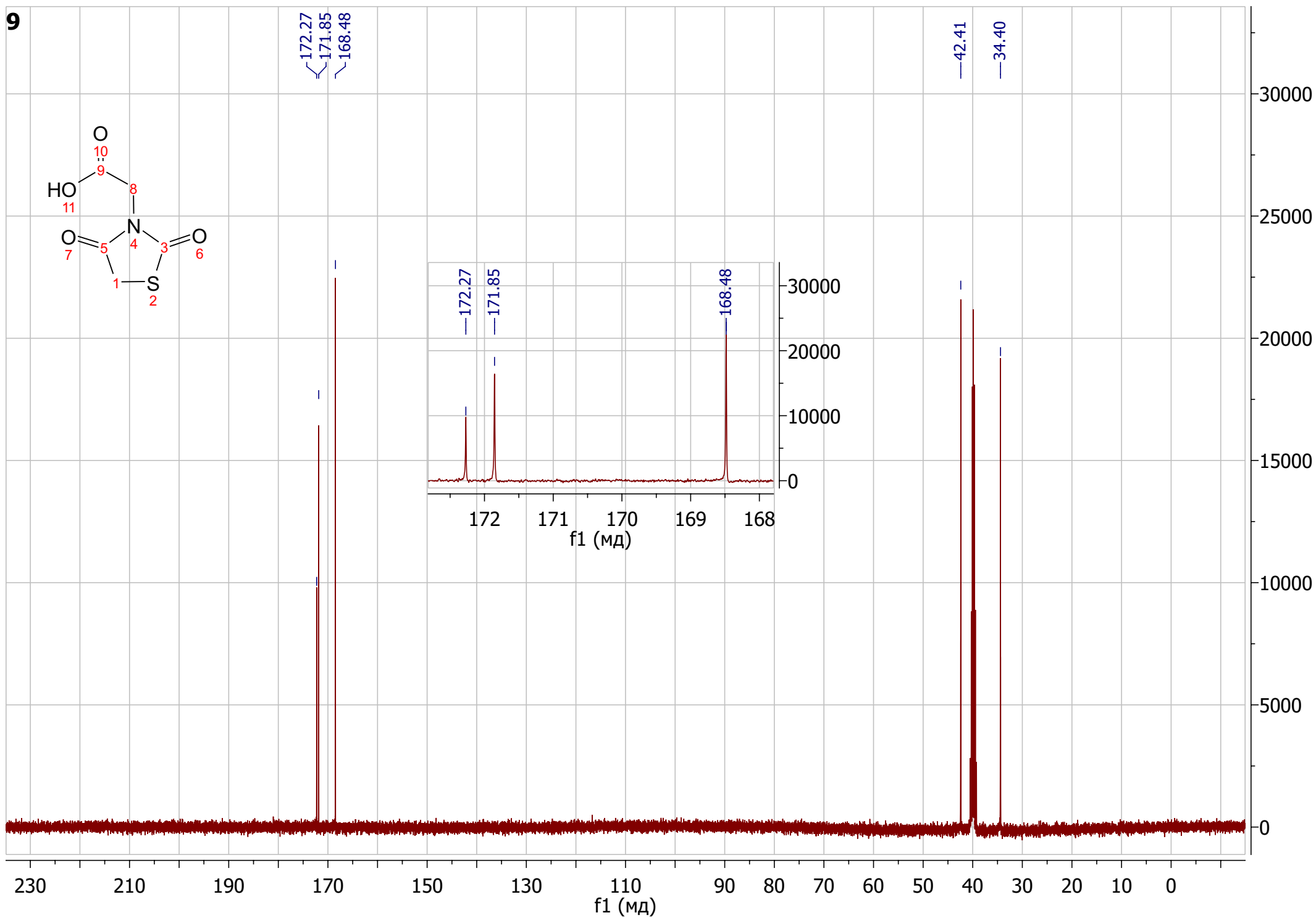
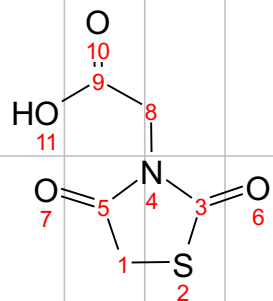
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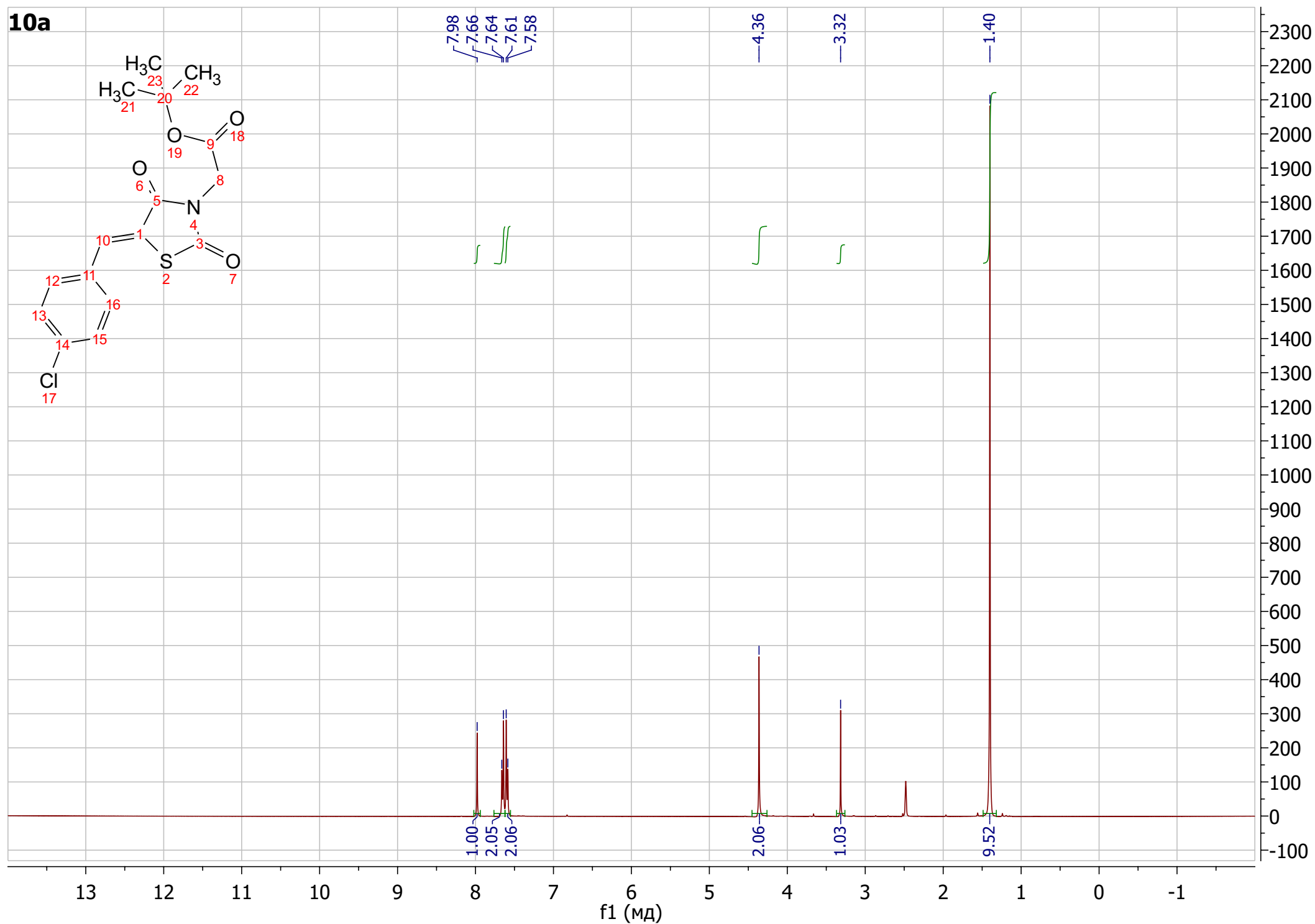
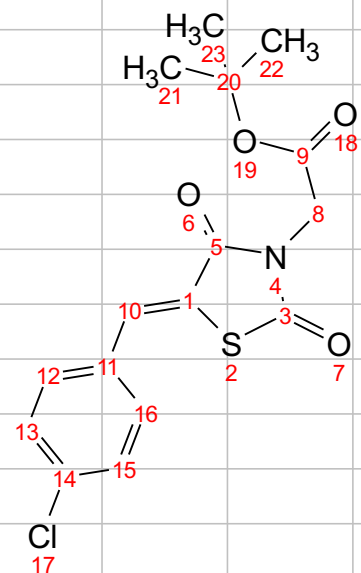


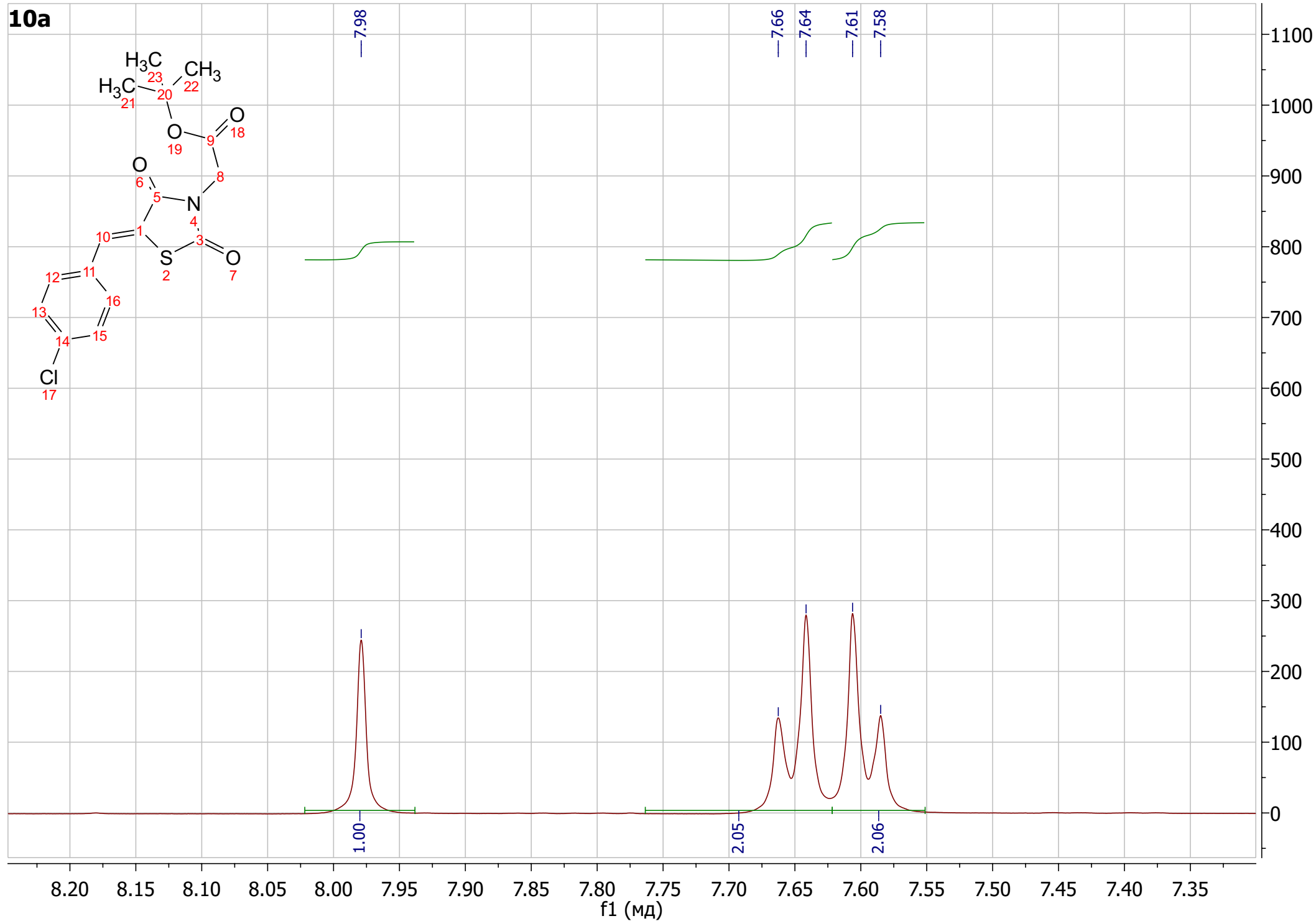
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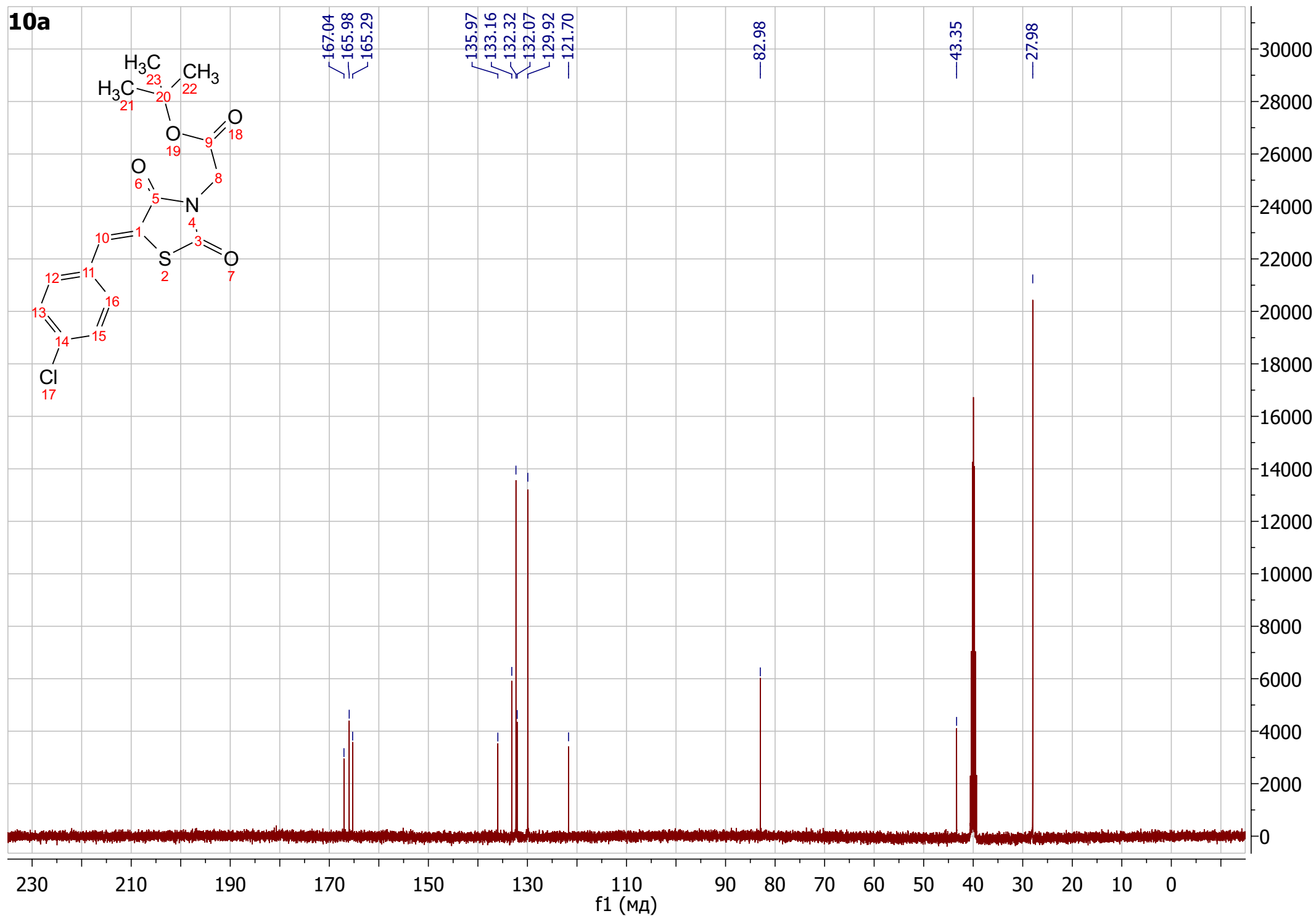
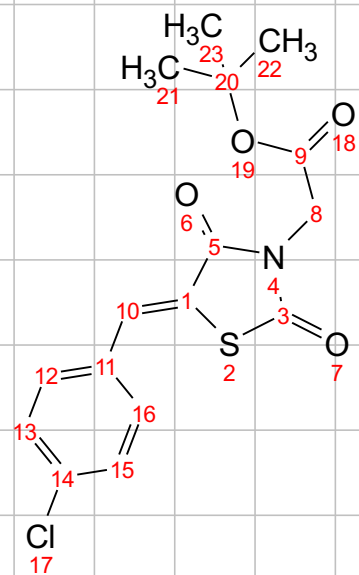


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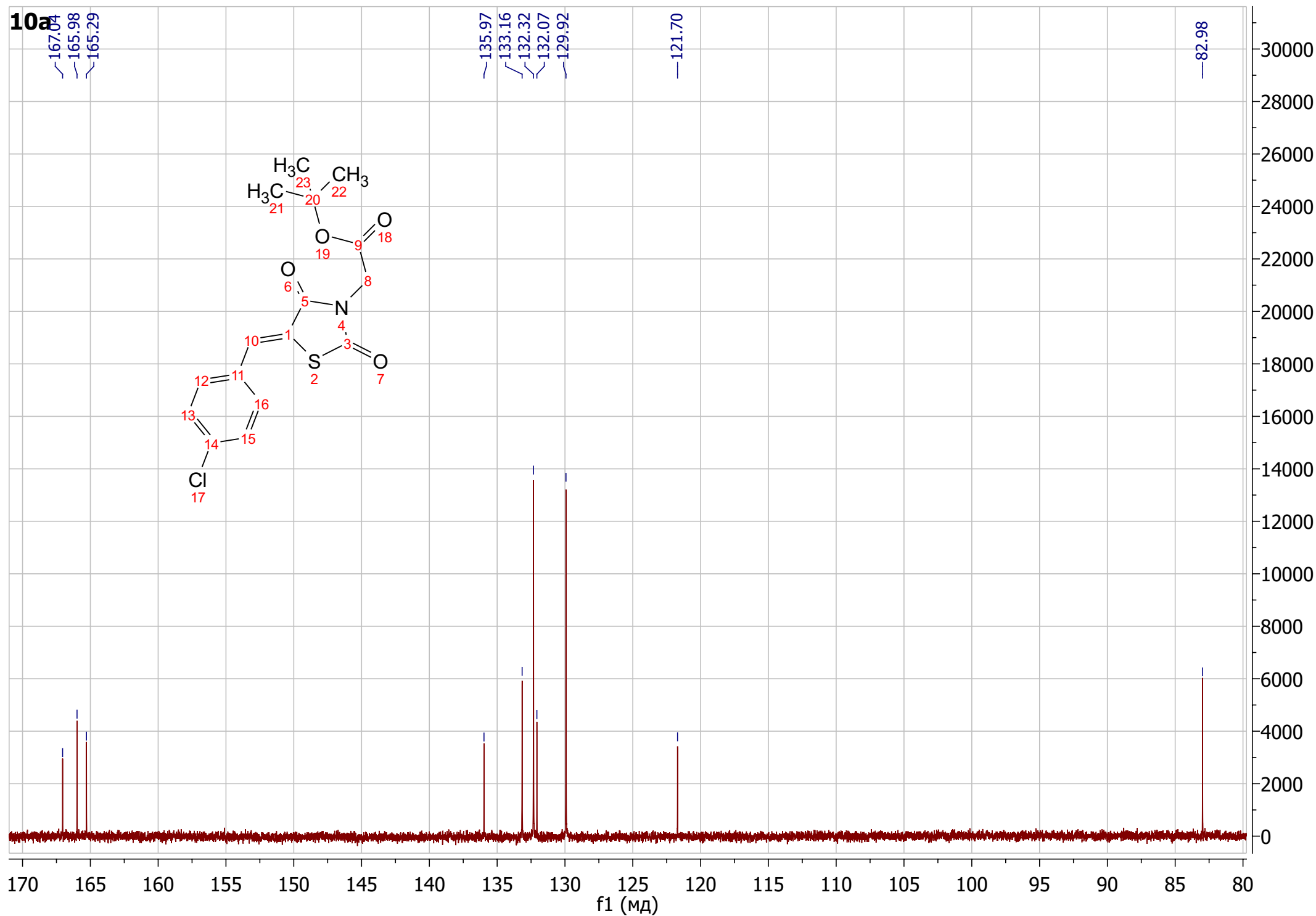
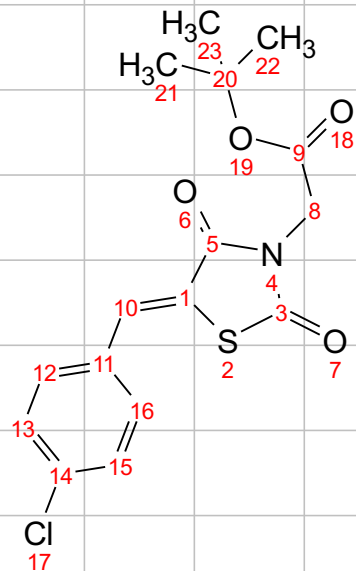


10a



10a

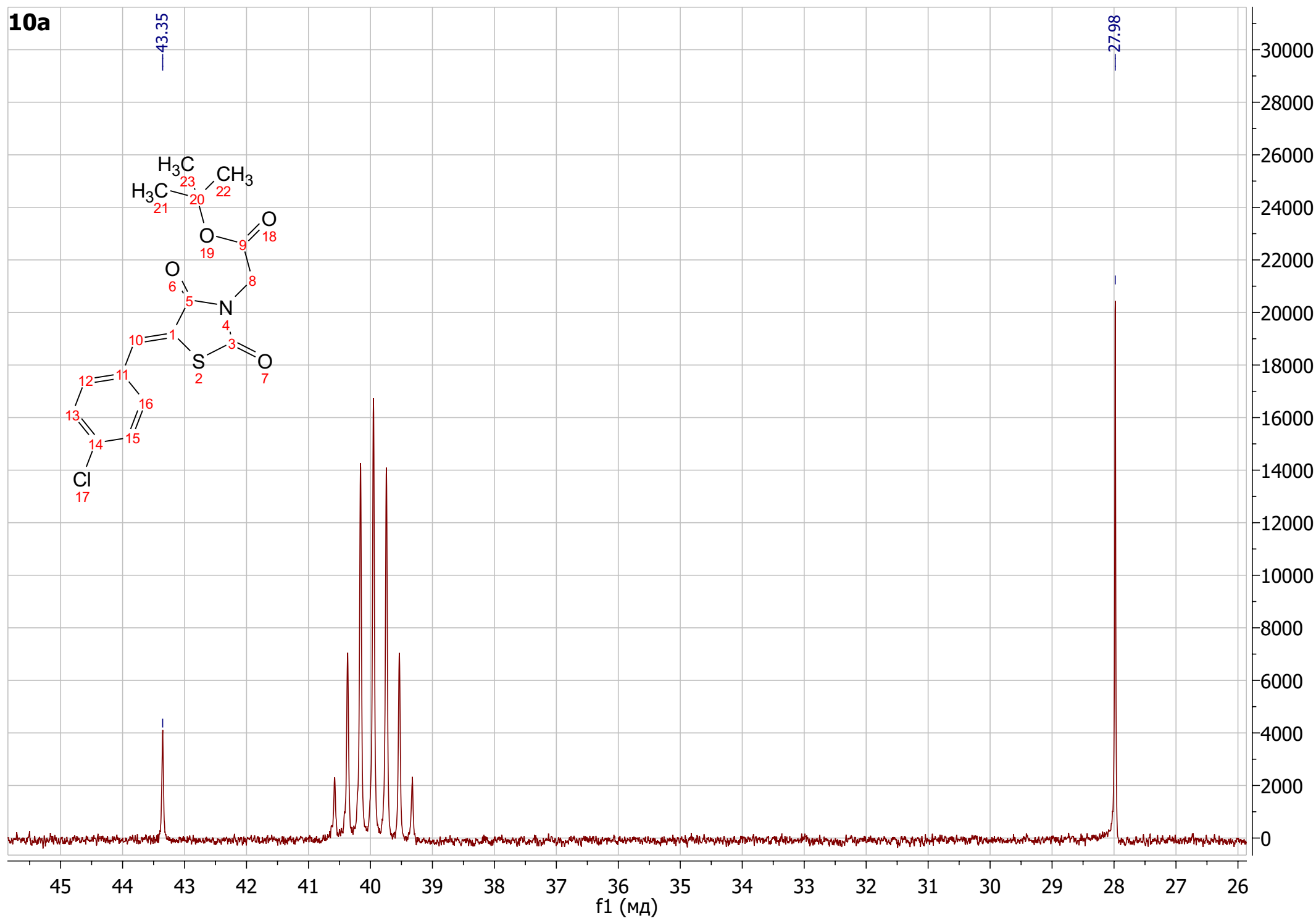
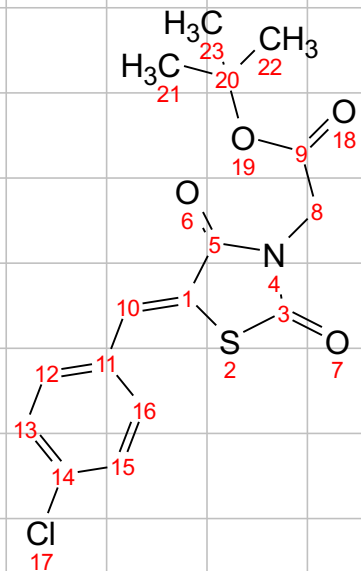
10a



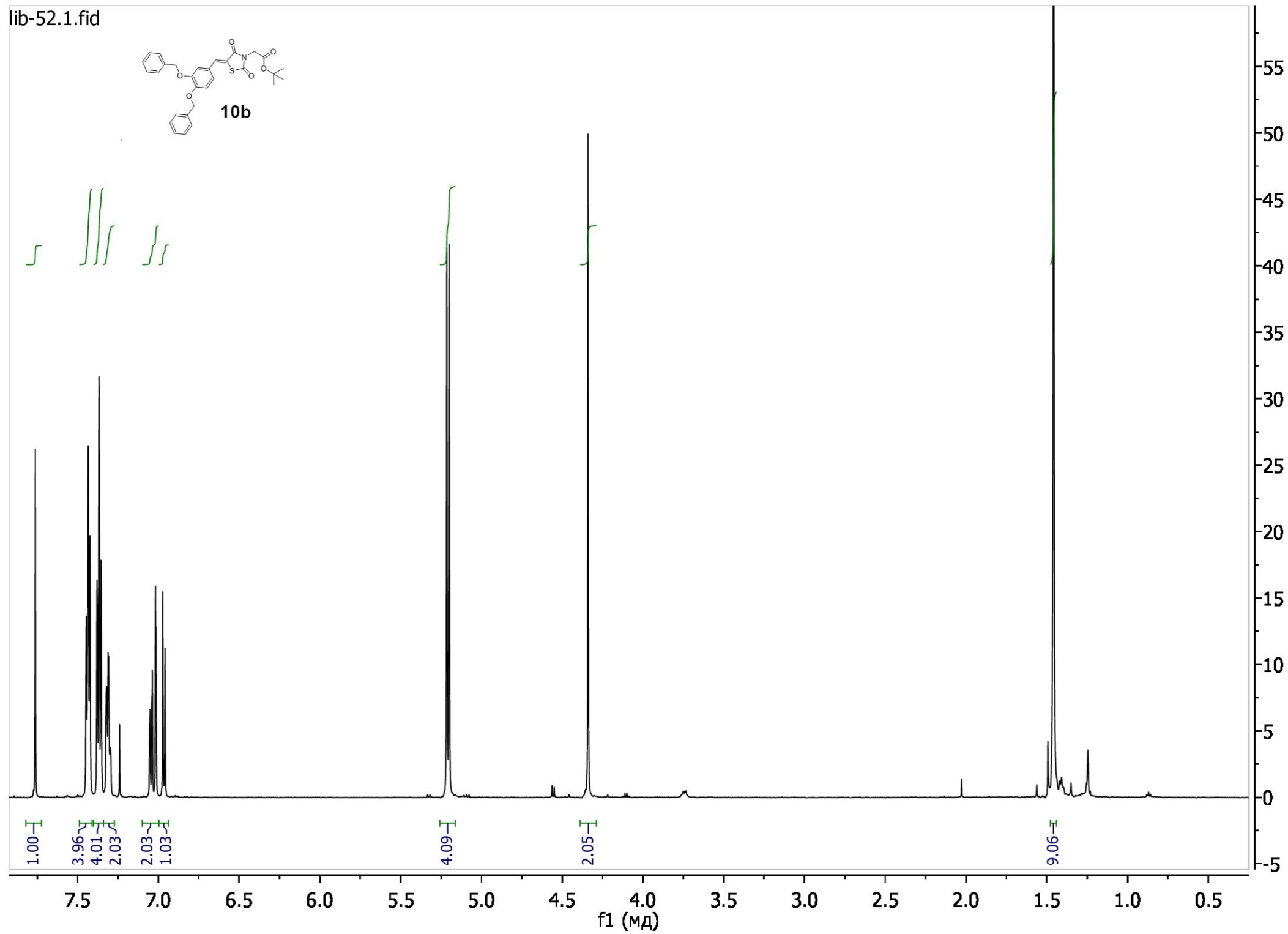
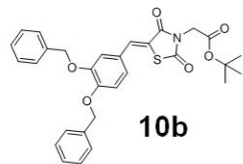
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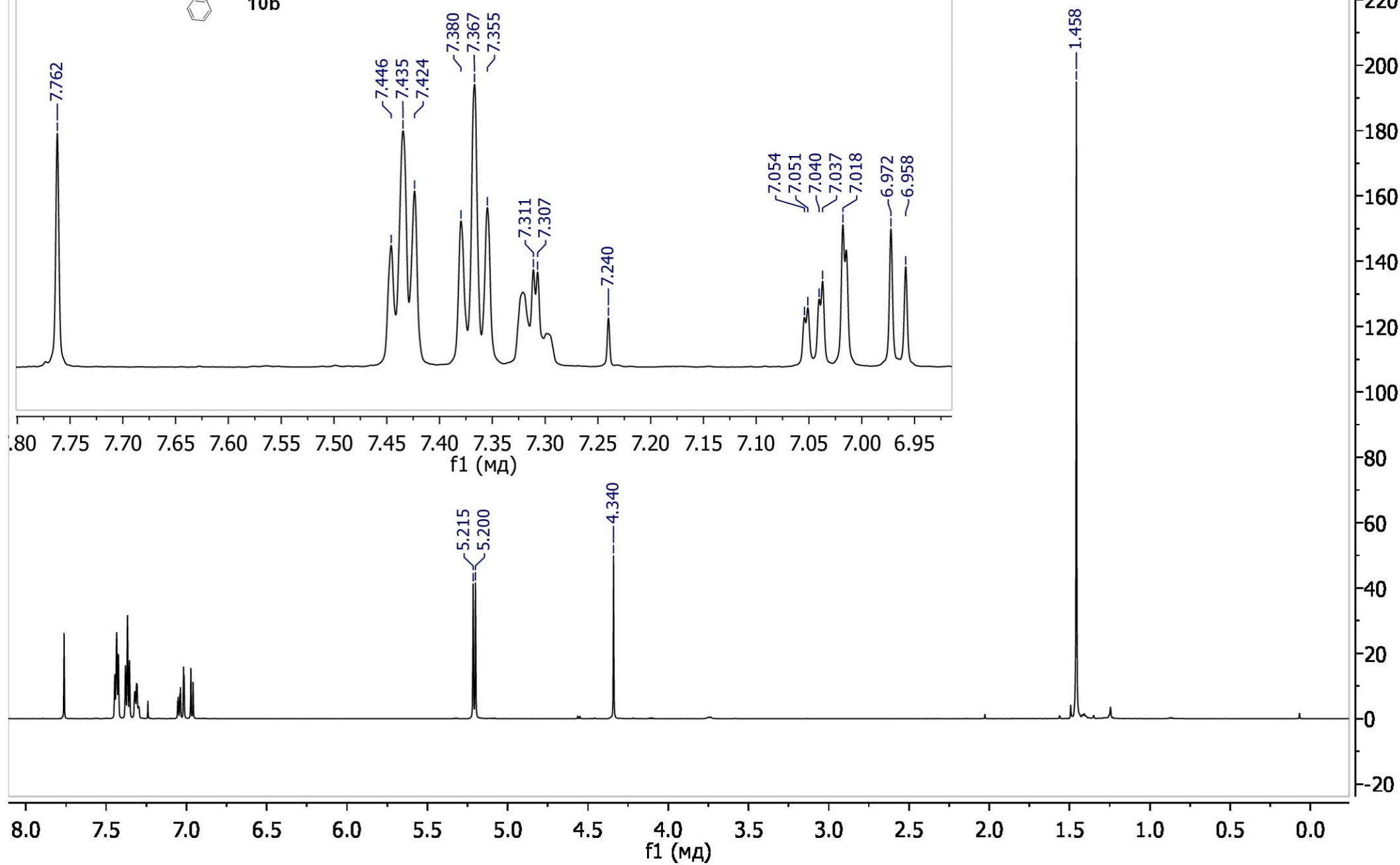
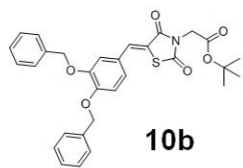
—43.35

—27.98

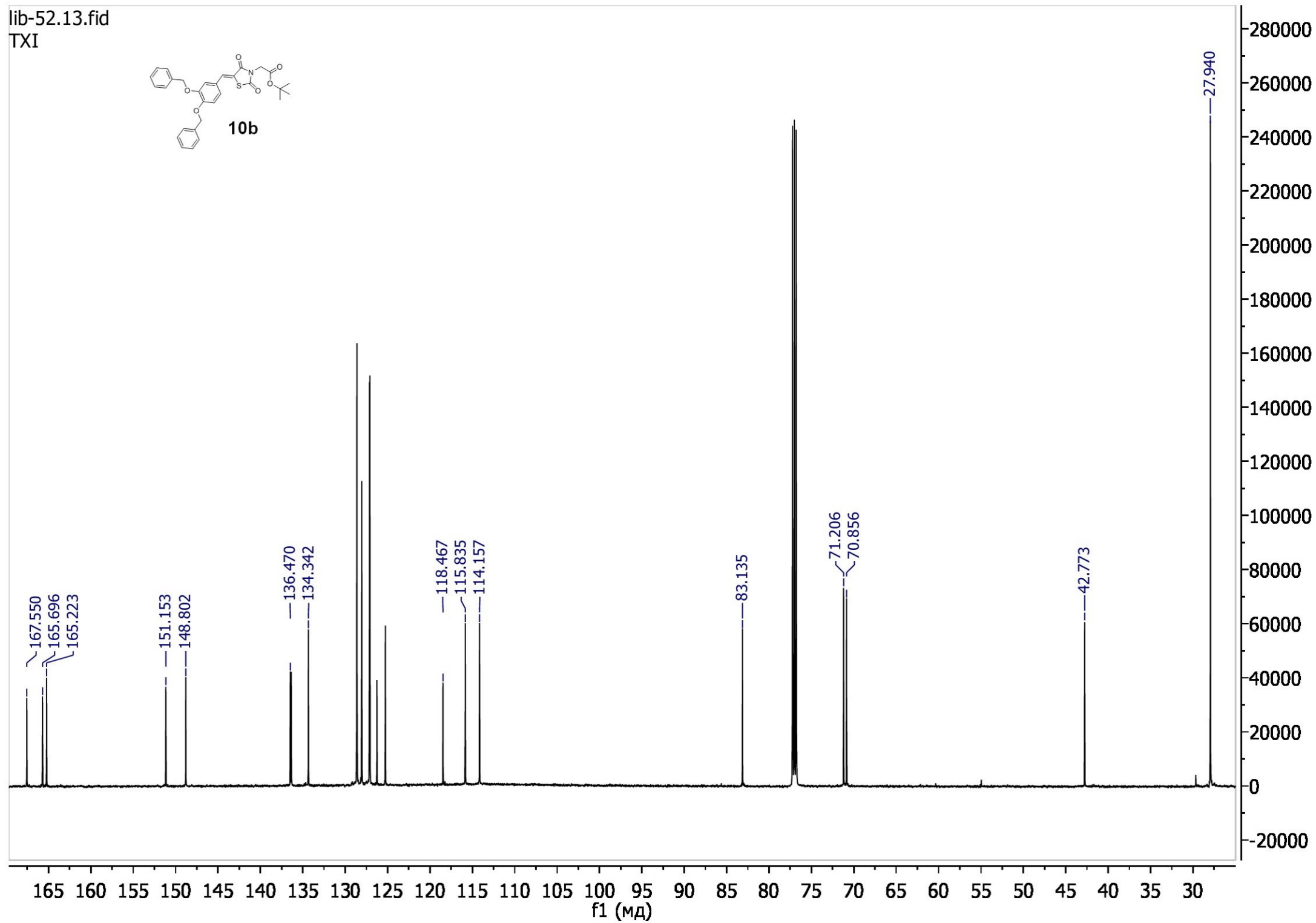
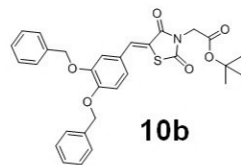


lib-52.1.fid

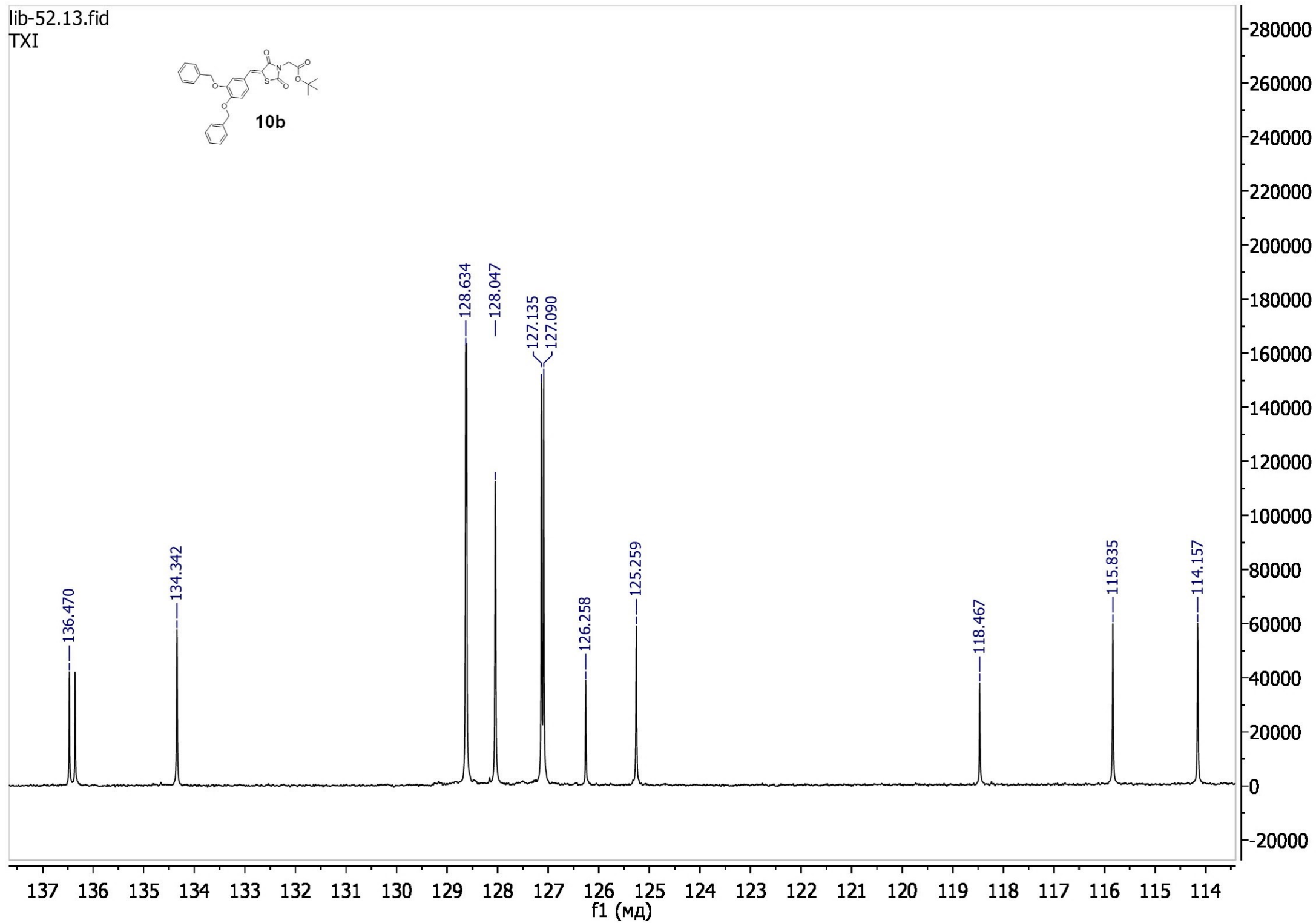
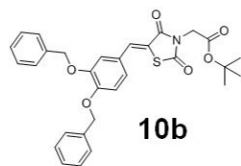




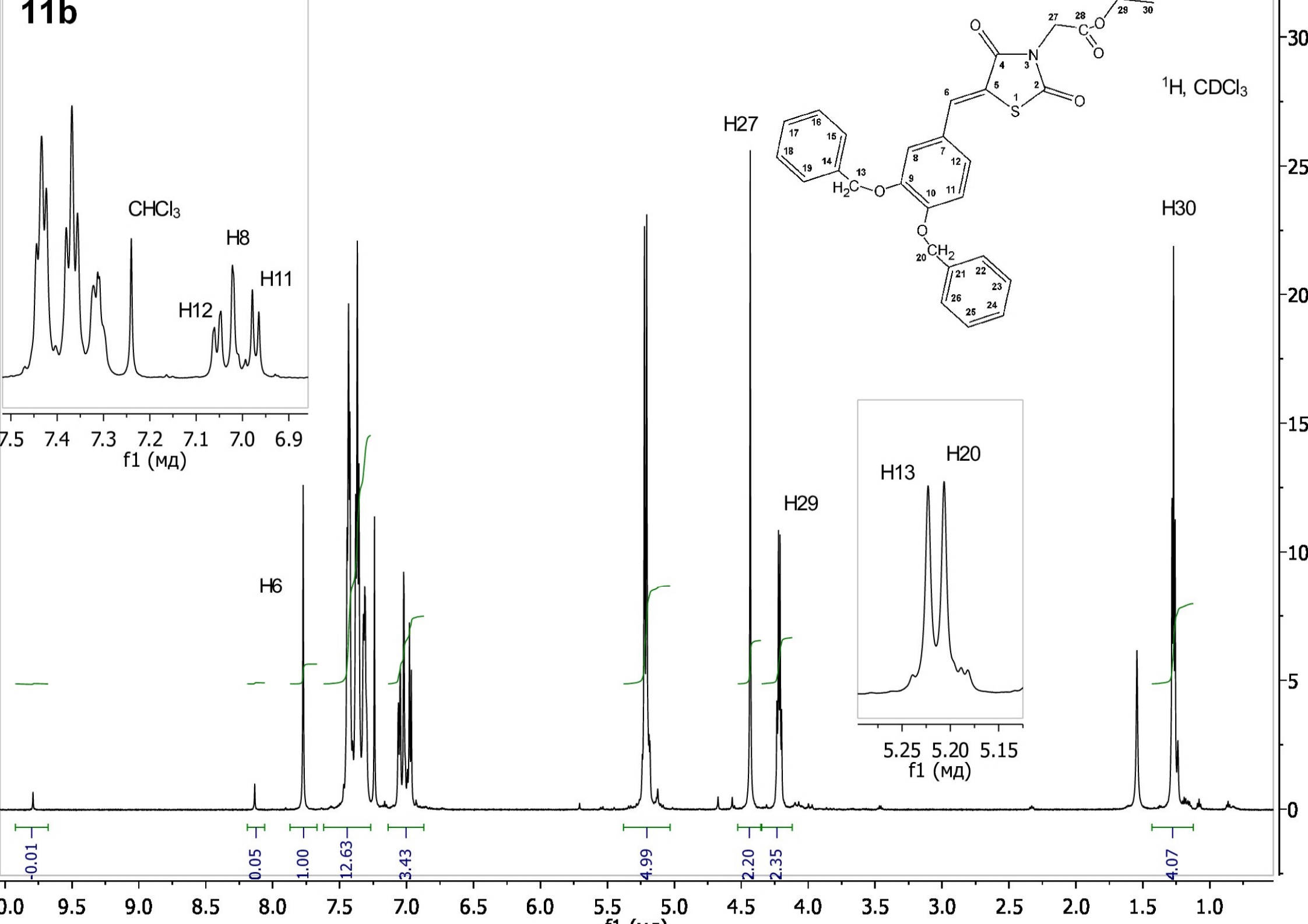
lib-52.13.fid
TXI



lib-52.13.fid
TXI

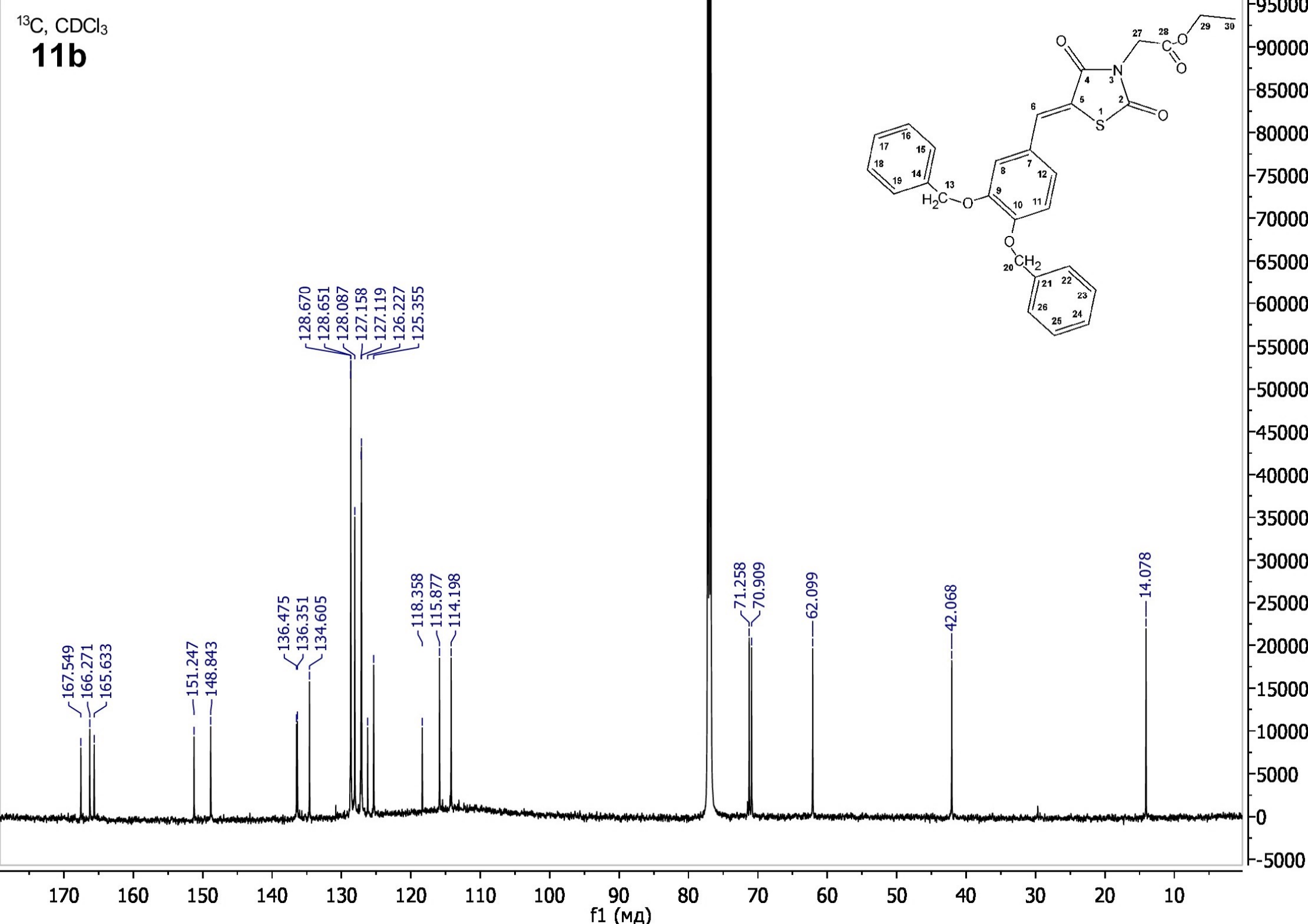
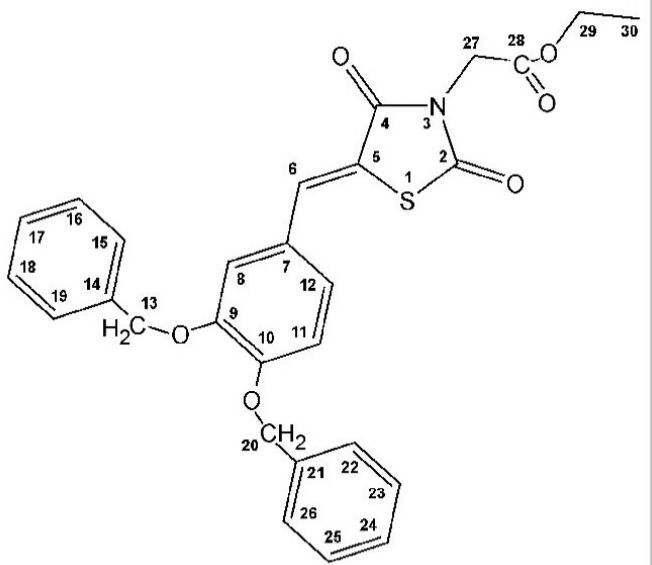


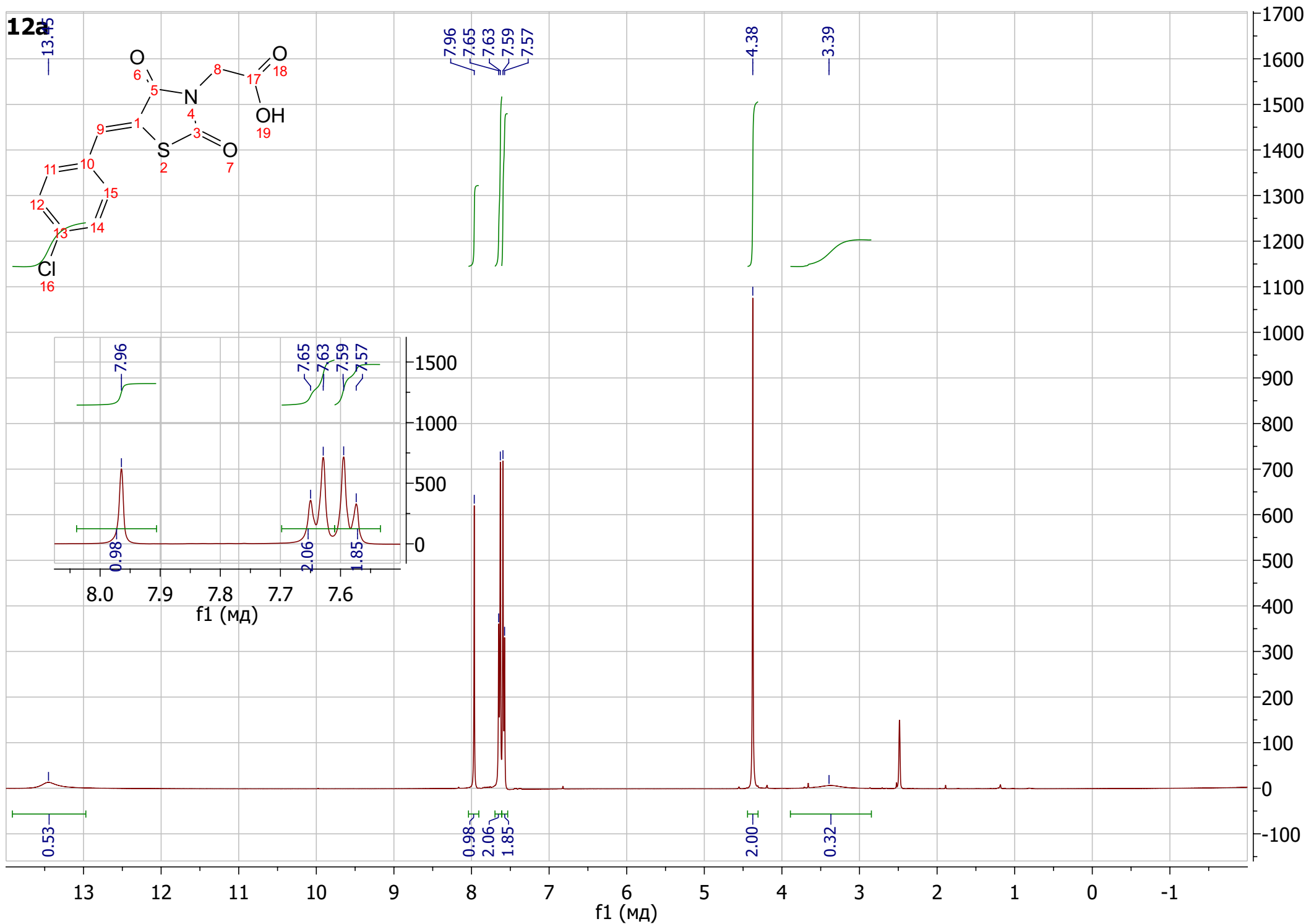
11b

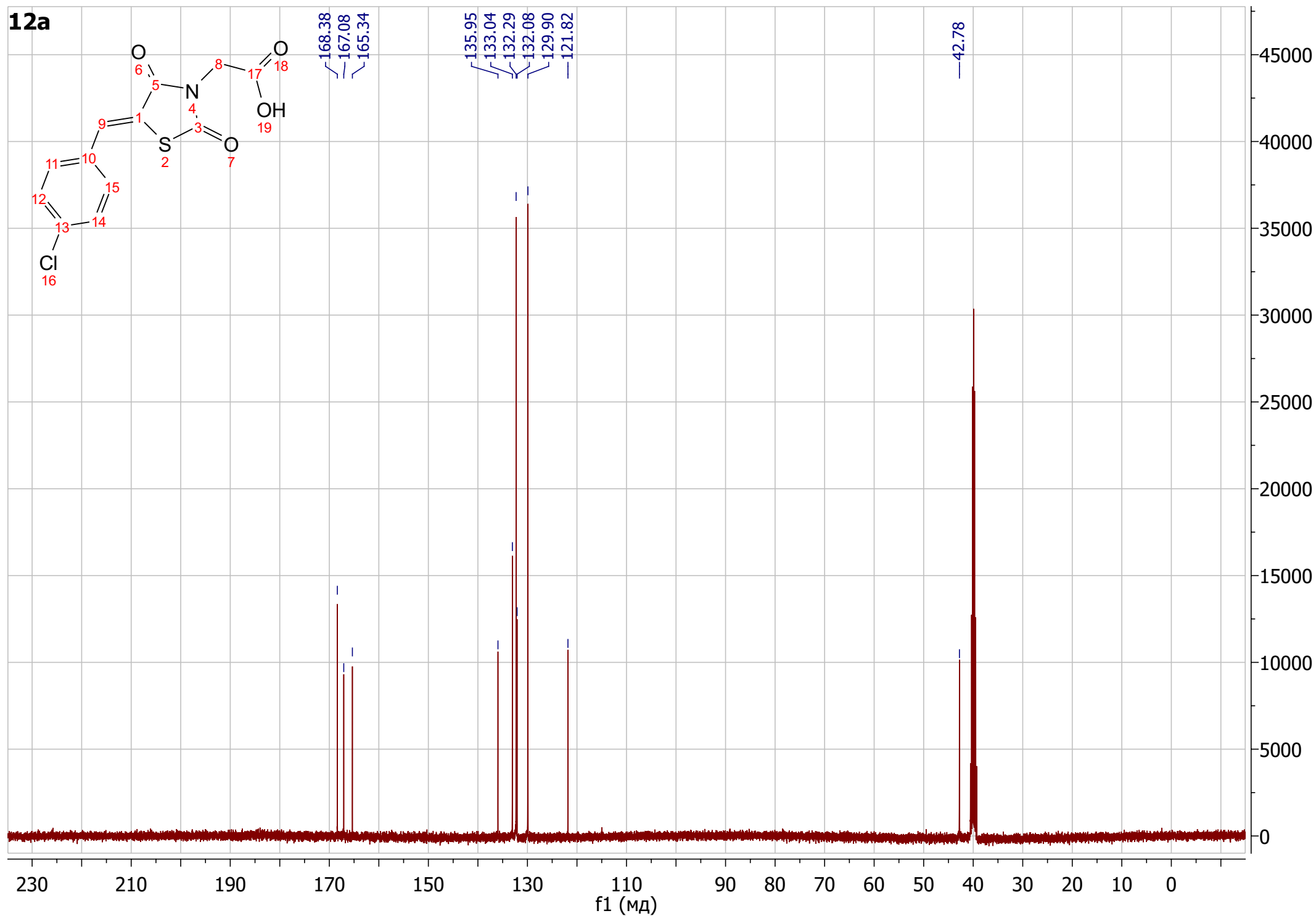
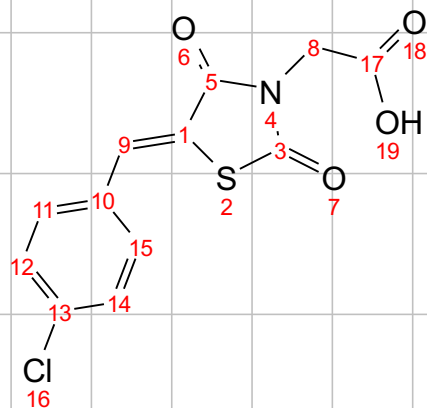


¹³C, CDCl₃

11b

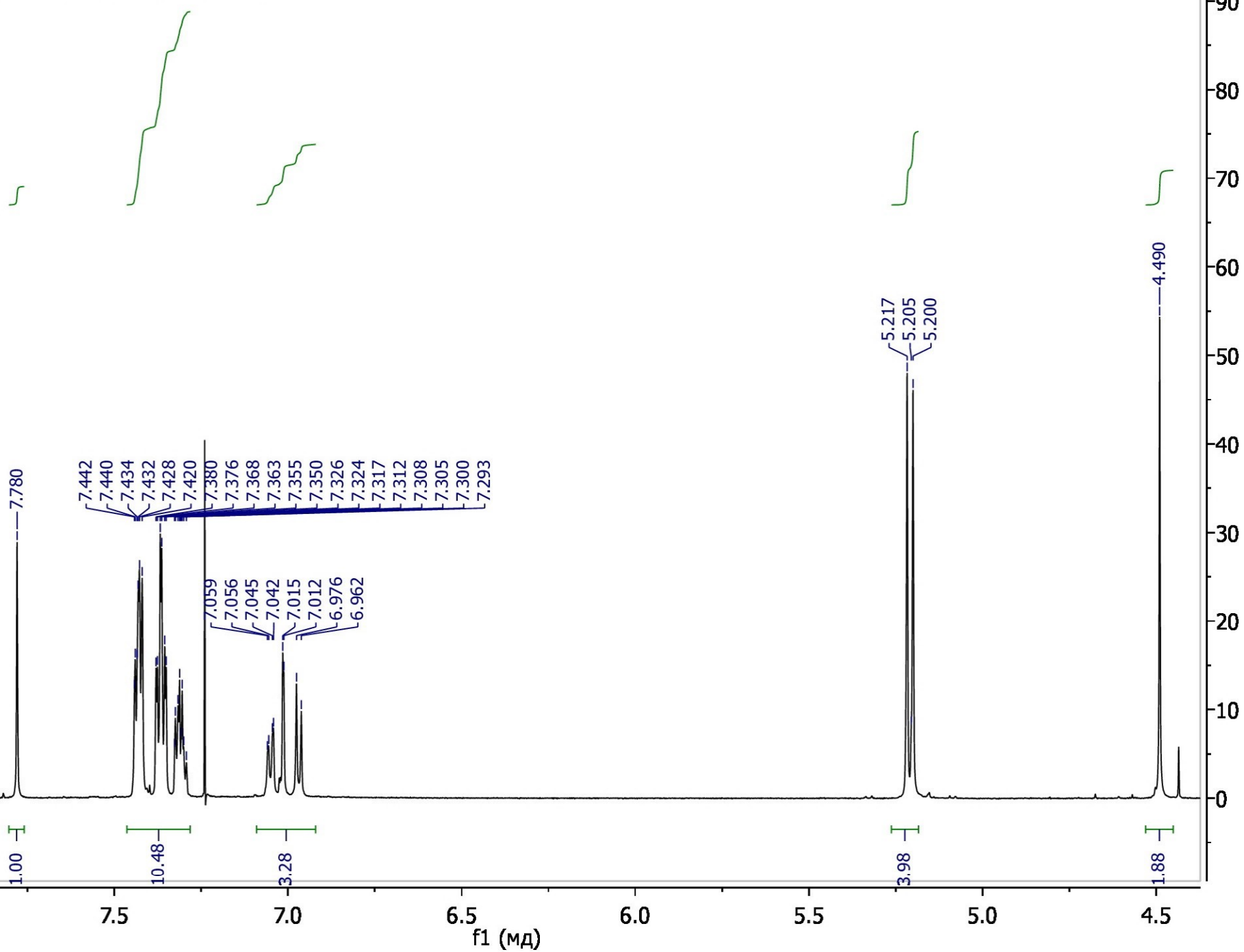
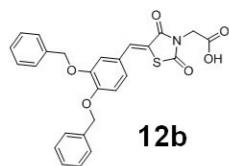




12a

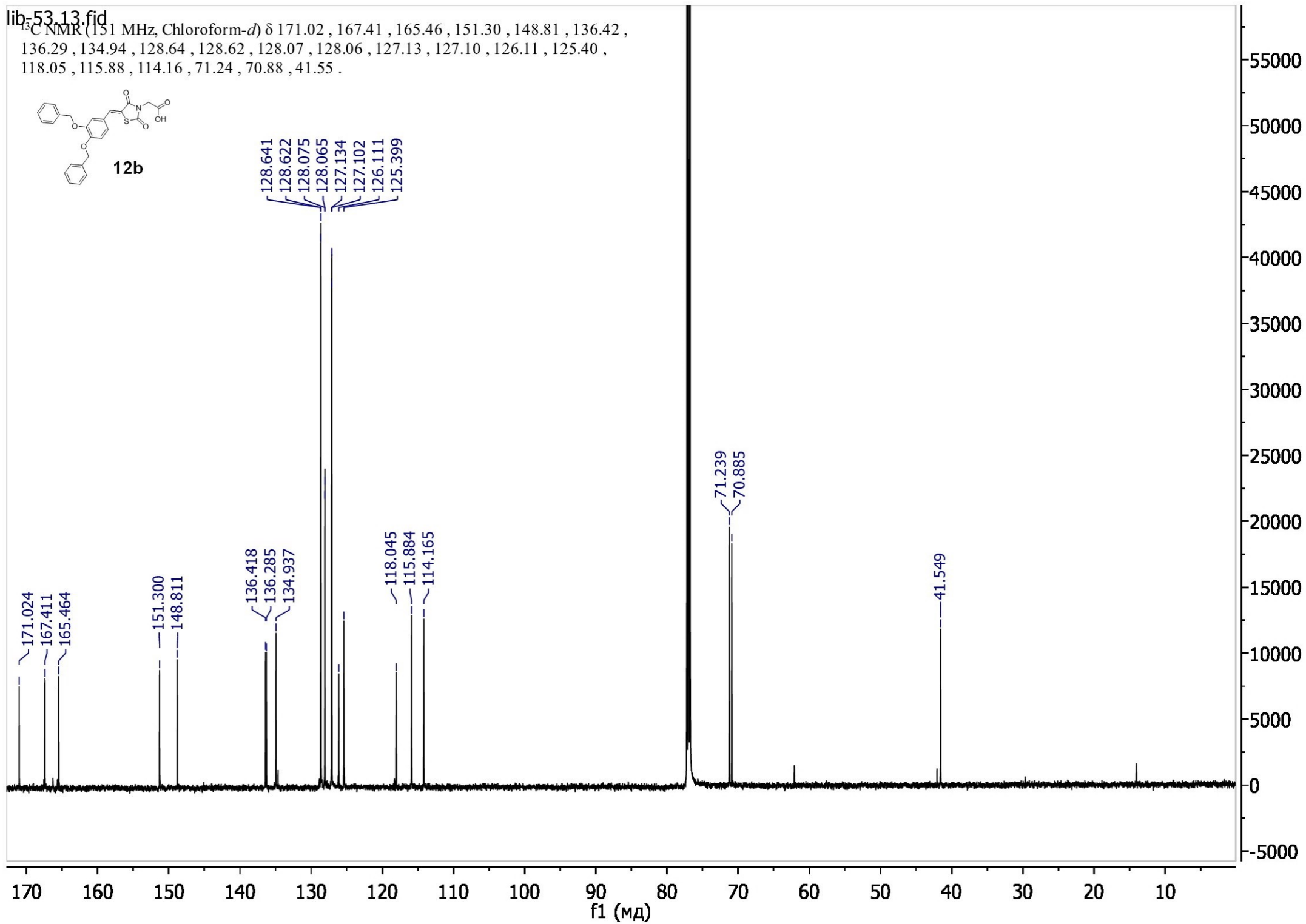
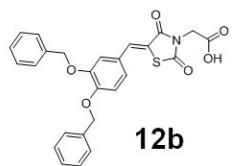
lib-53.1.fid

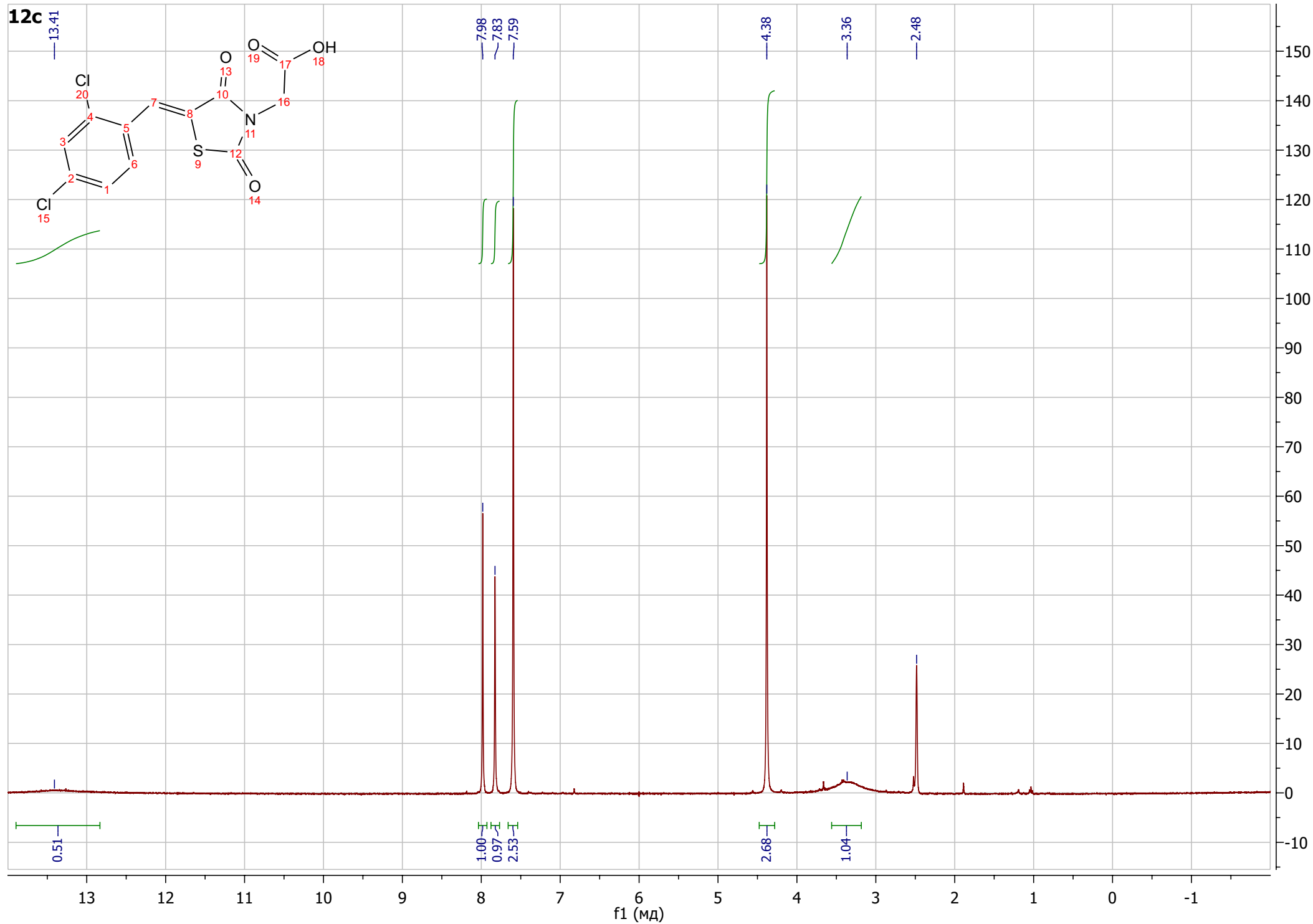
¹H NMR (600 MHz, Chloroform-*d*) δ 7.78 (s, 1H), 7.46 – 7.41 (m, 5H), 7.37 (td, J = 7.6, 2.5 Hz, 5H), 7.31 (td, J = 7.3, 4.6 Hz, 2H), 7.05 (dd, J = 8.4, 2.0 Hz, 1H), 7.01 (d, J = 1.9 Hz, 1H), 6.97 (d, J = 8.4 Hz, 1H), 5.22 (s, 2H), 5.20 (s, 2H), 4.49 (s, 2H).

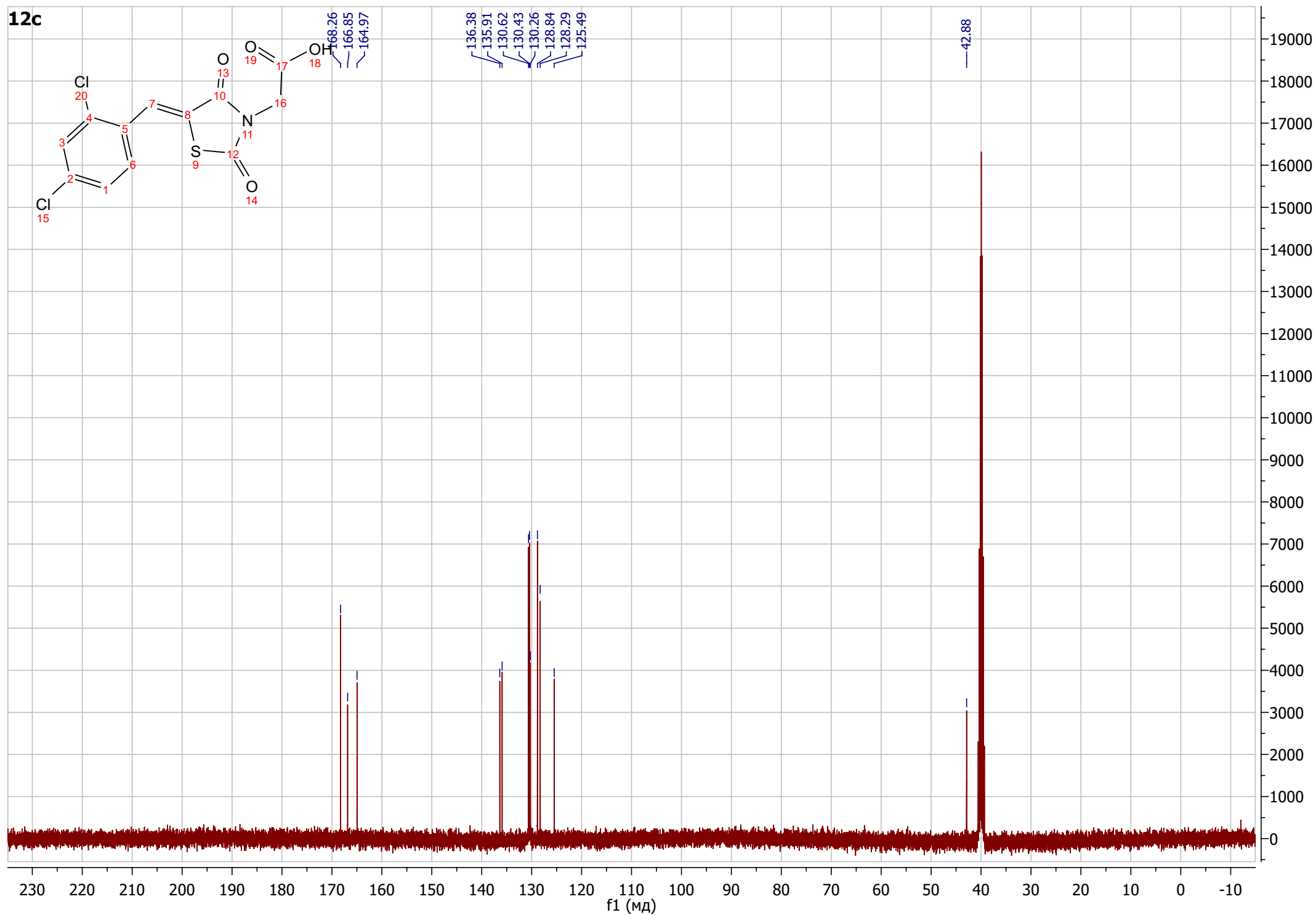


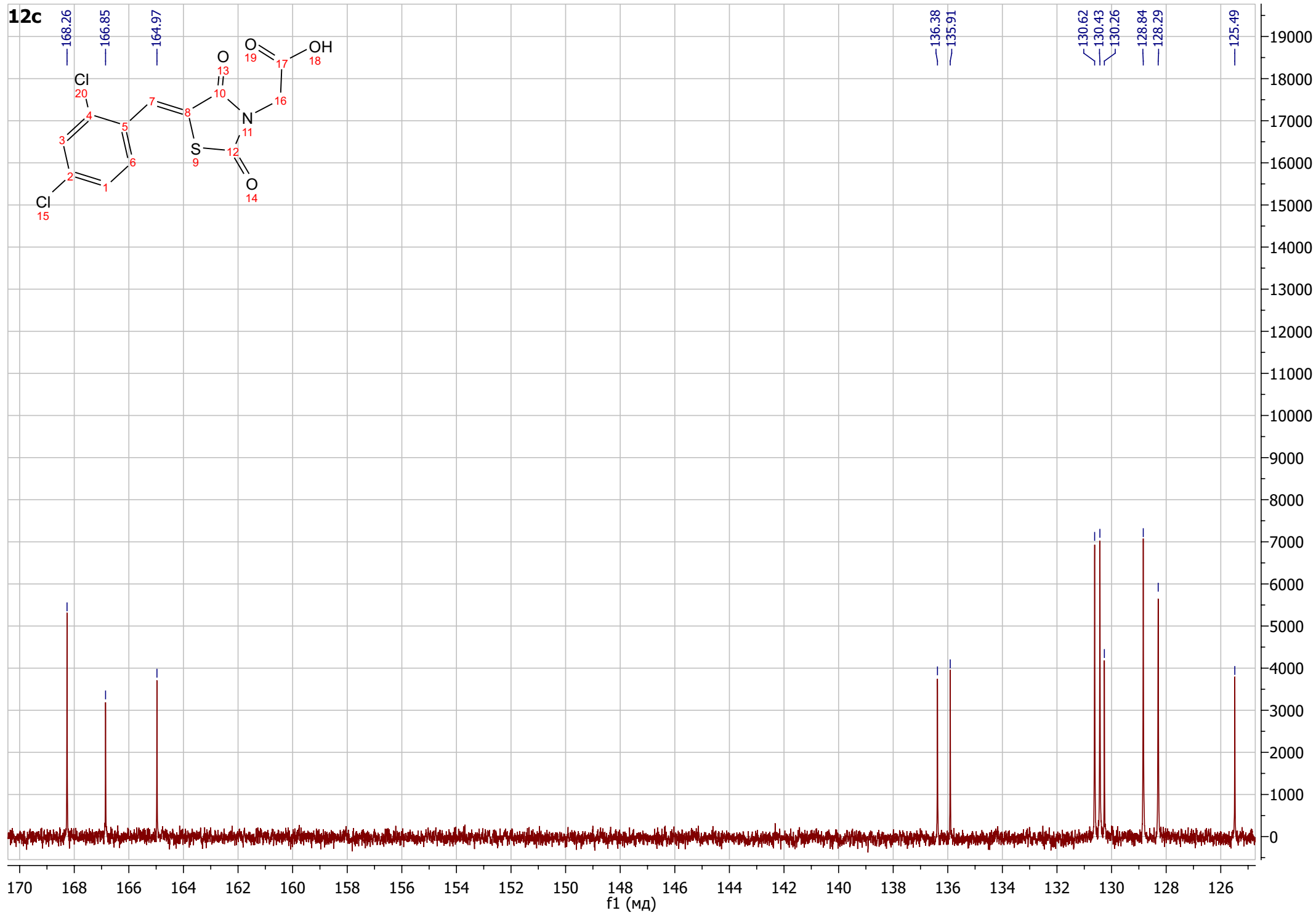
lib-53.13.fid

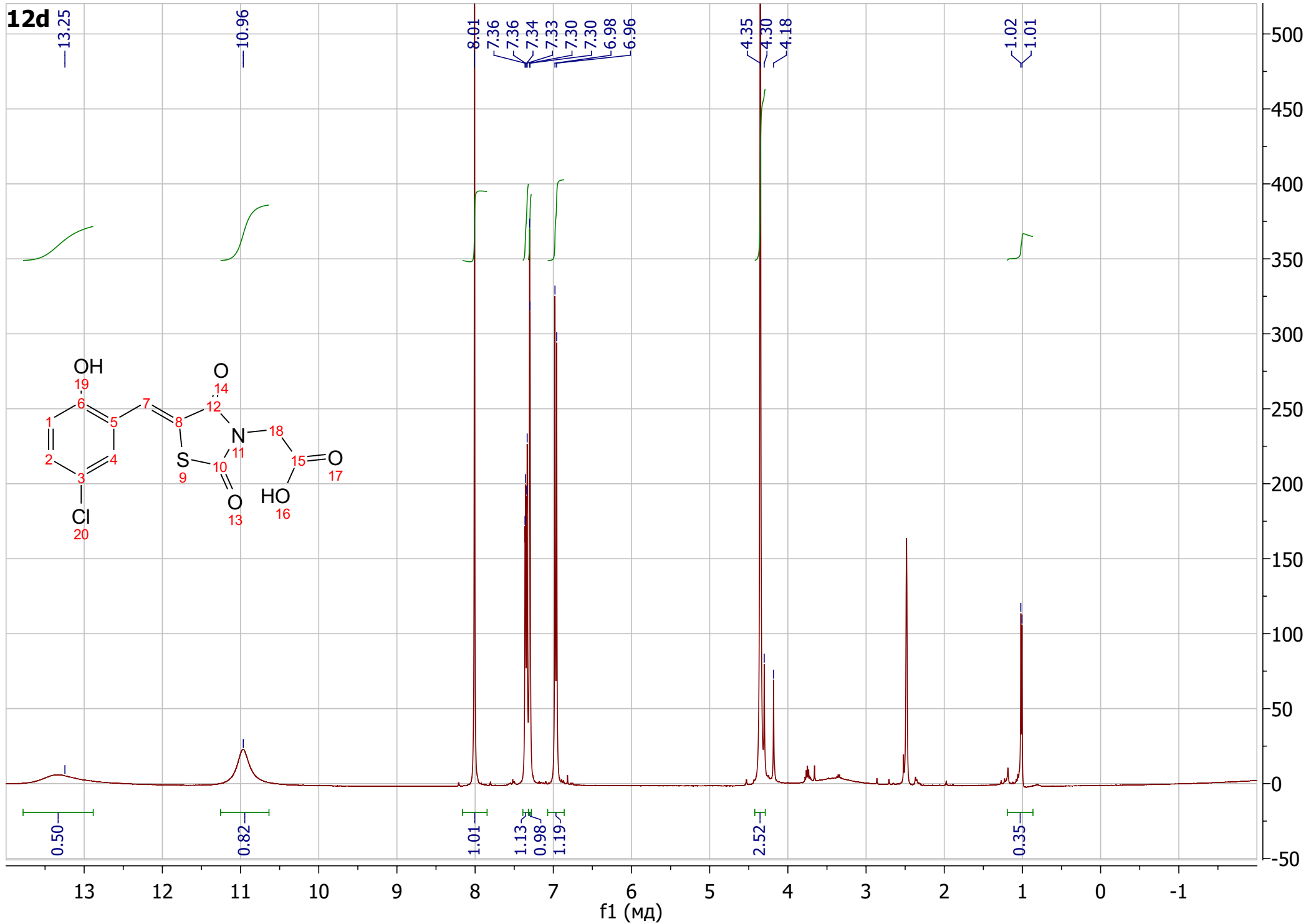
¹³C NMR (151 MHz, Chloroform-*d*) δ 171.02, 167.41, 165.46, 151.30, 148.81, 136.42, 136.29, 134.94, 128.64, 128.62, 128.07, 128.06, 127.13, 127.10, 126.11, 125.40, 118.05, 115.88, 114.16, 71.24, 70.88, 41.55.

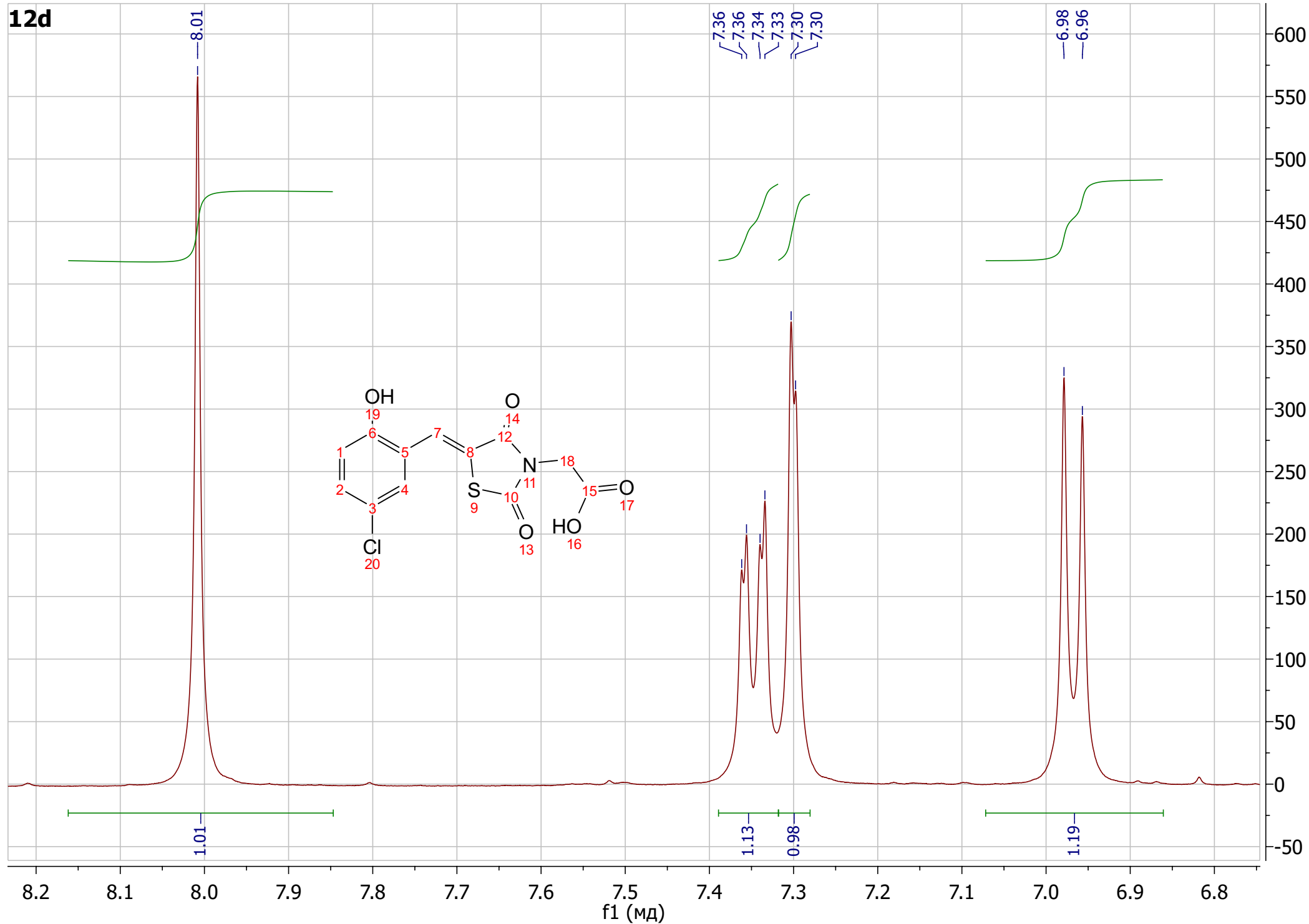


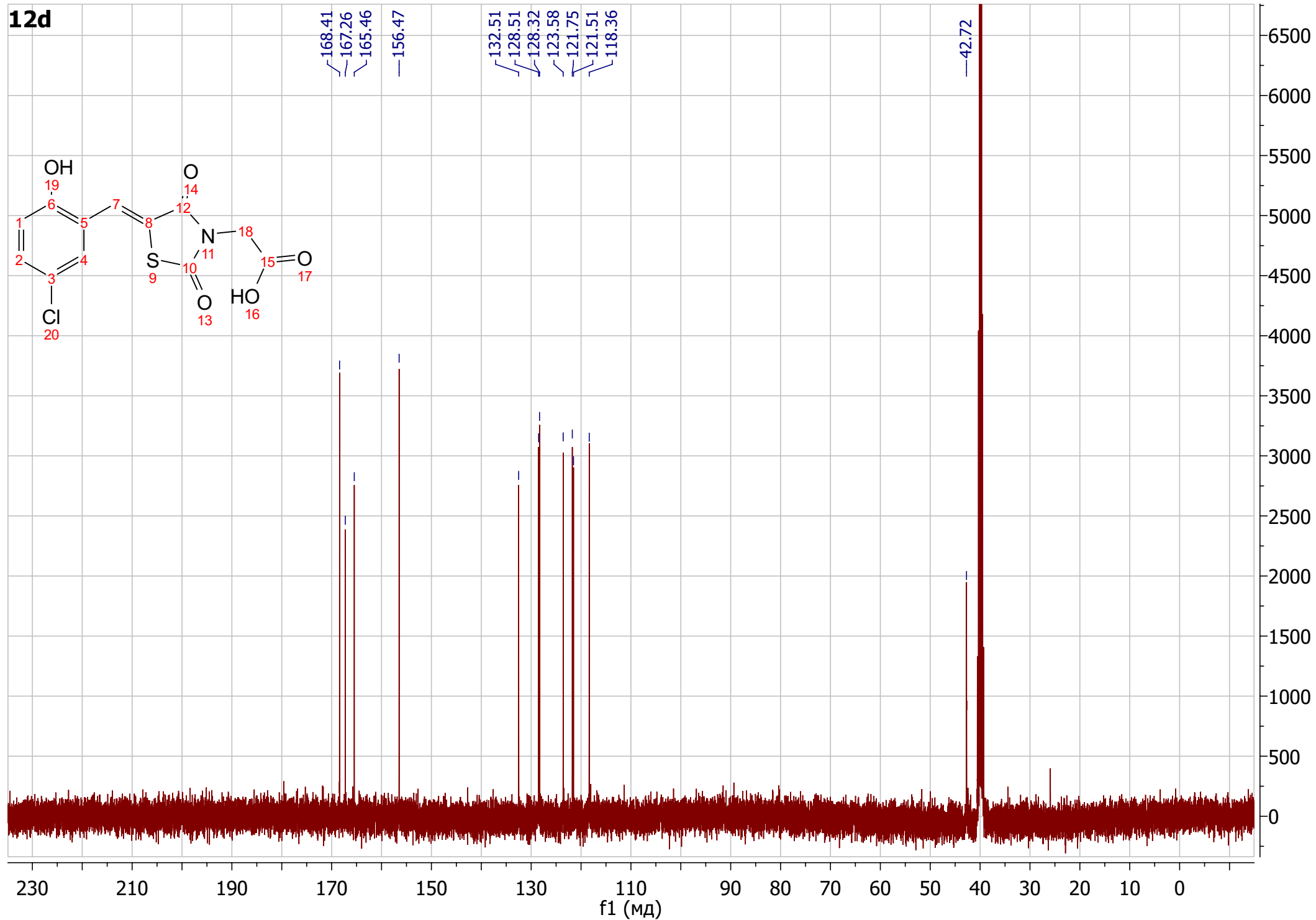


12c

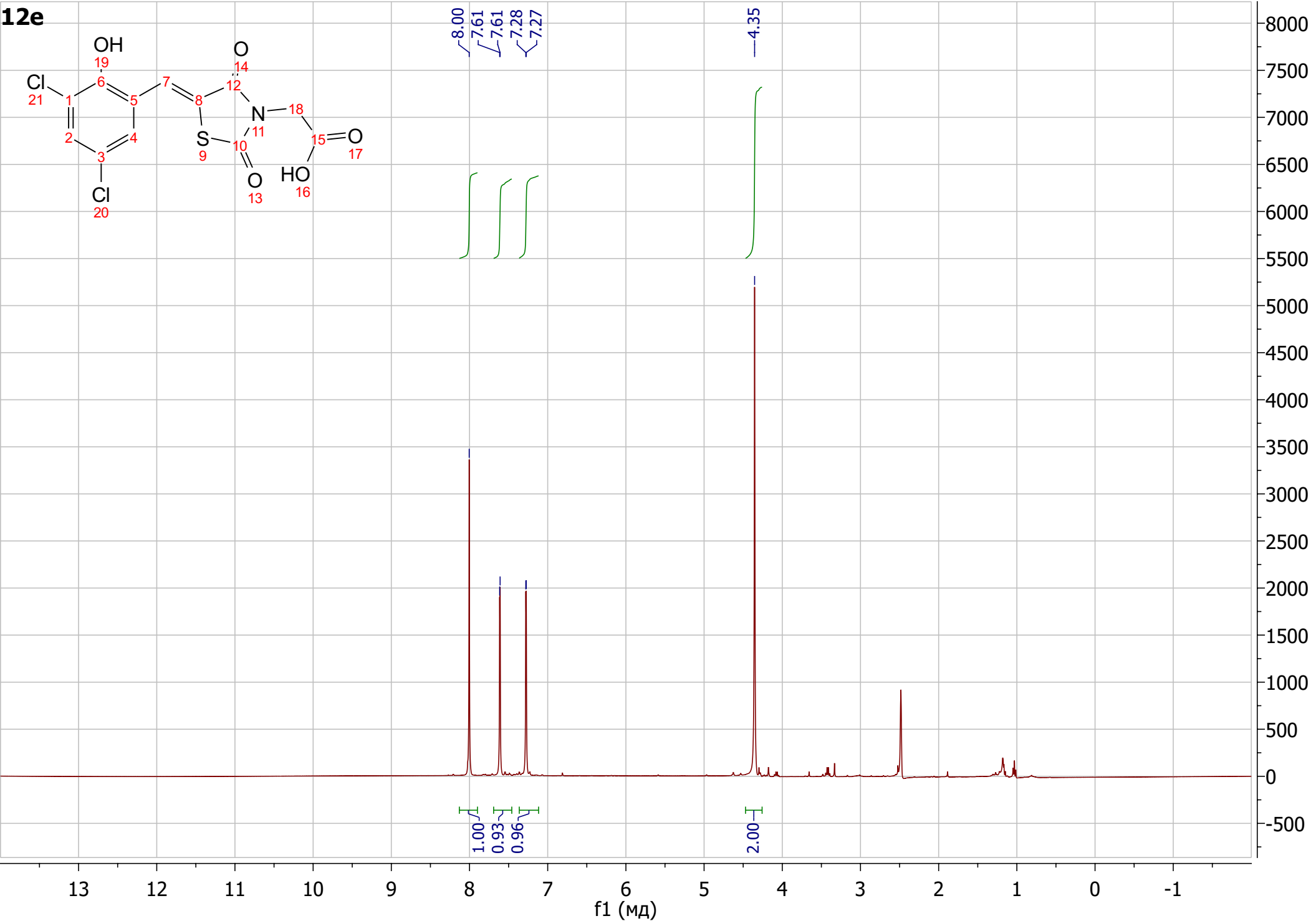
12c





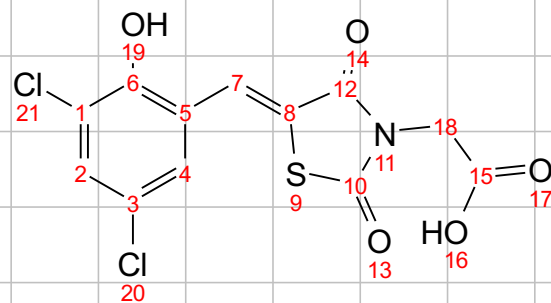
12d

12e



12e

8.00

7.61
7.617.28
7.27

1.00

0.93

0.96

8.15

8.05

7.95

7.85

7.75

f1 (MД)

7.65

7.55

7.45

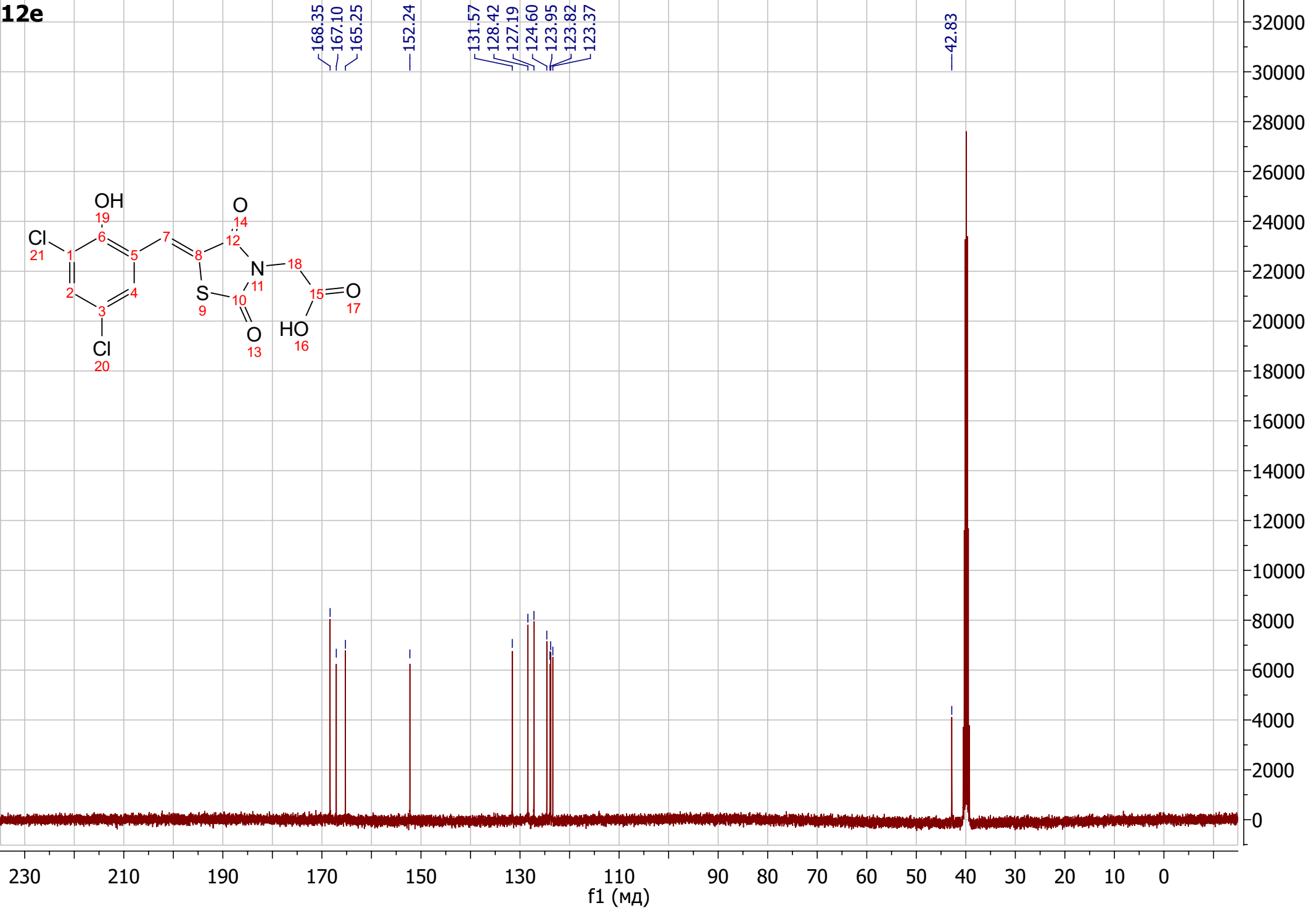
7.35

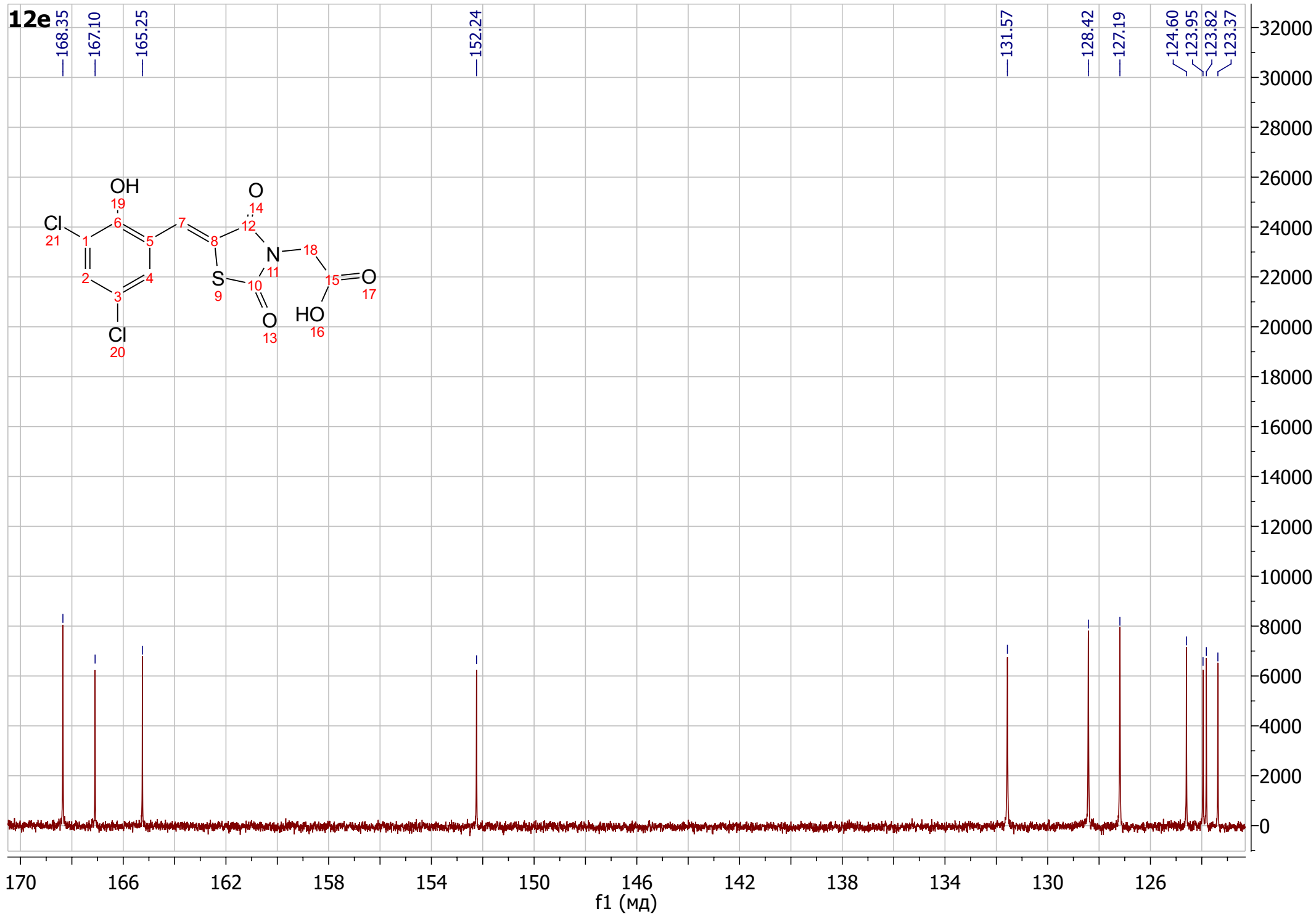
7.25

7.15

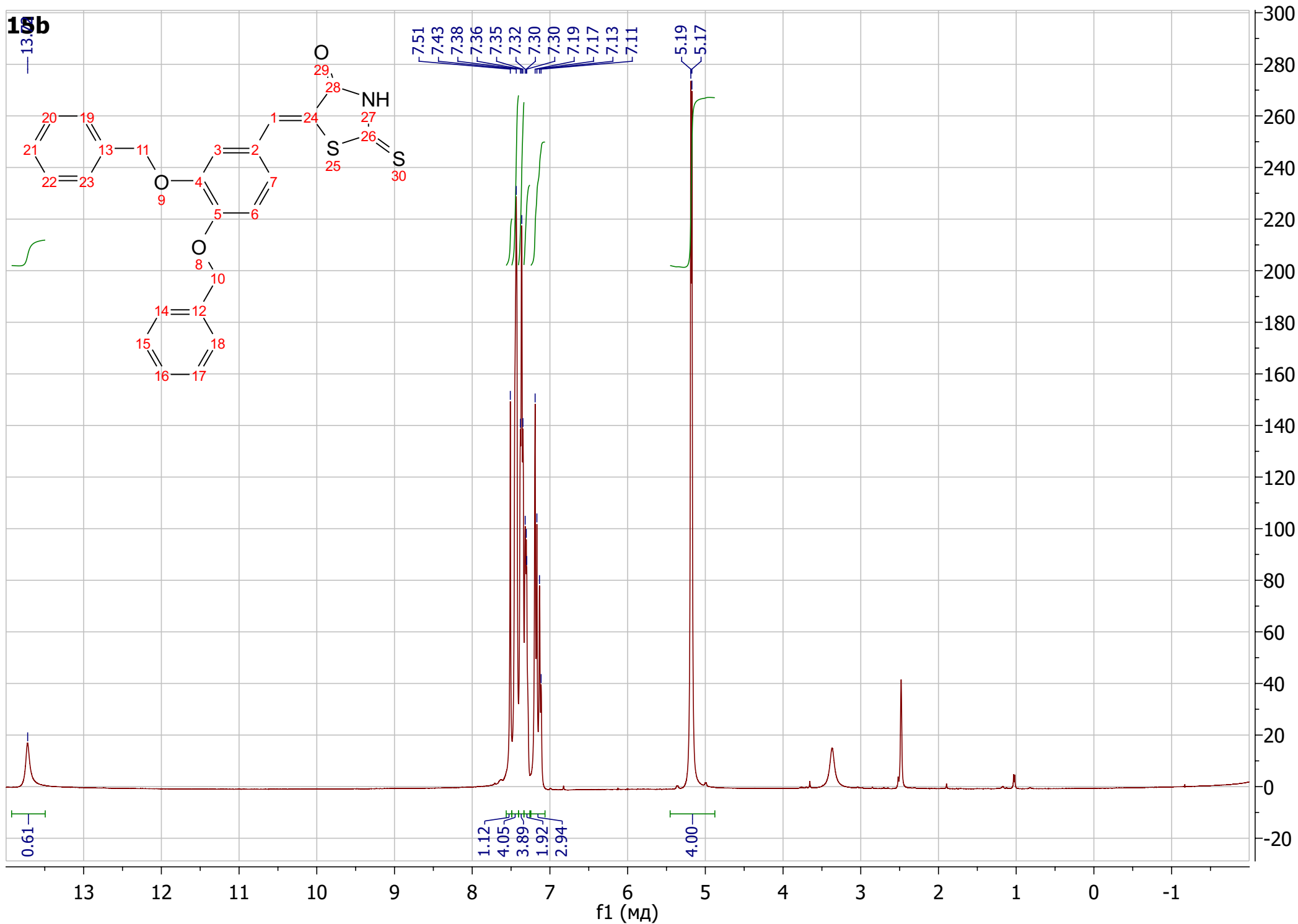
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
-500

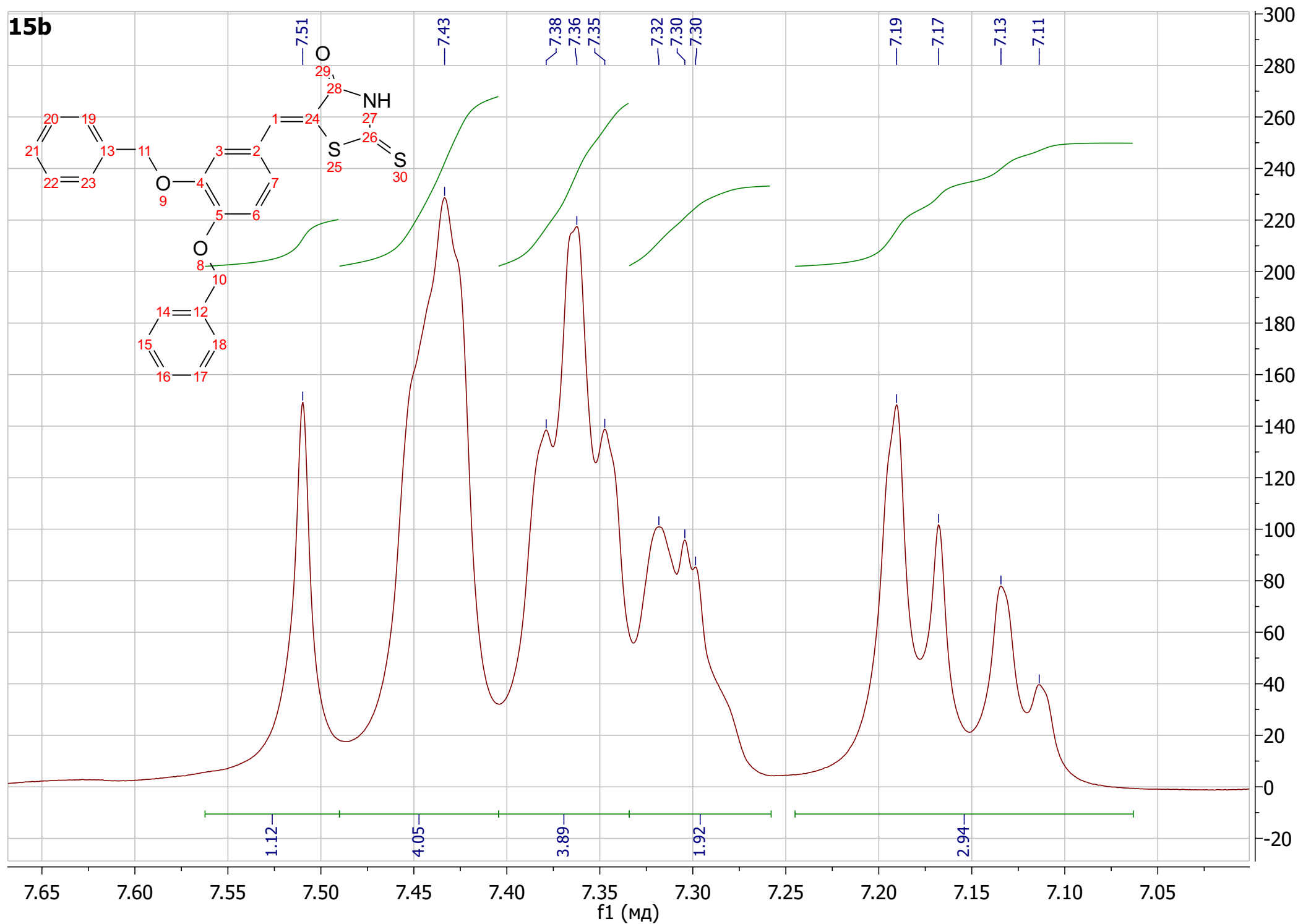
12e



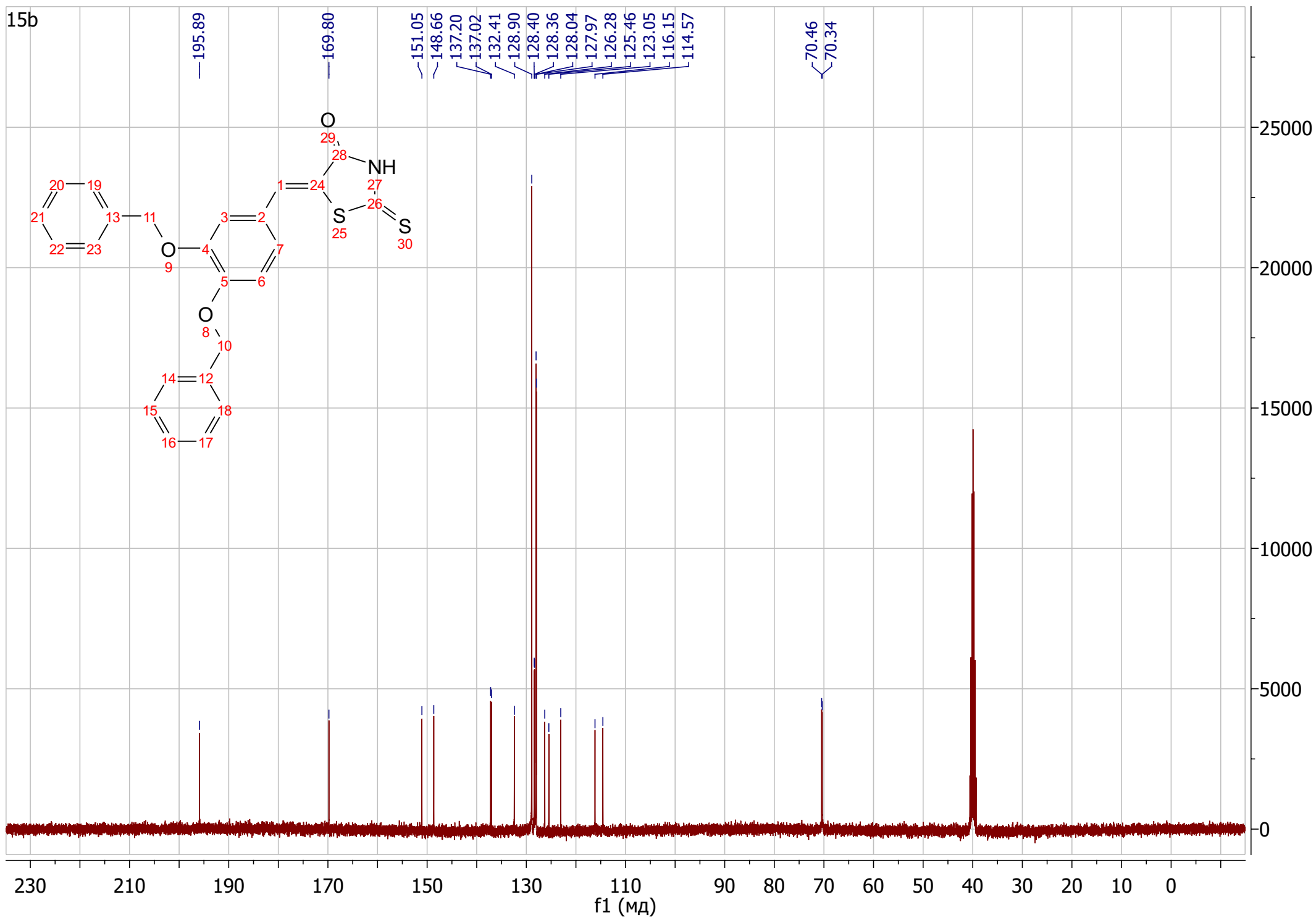


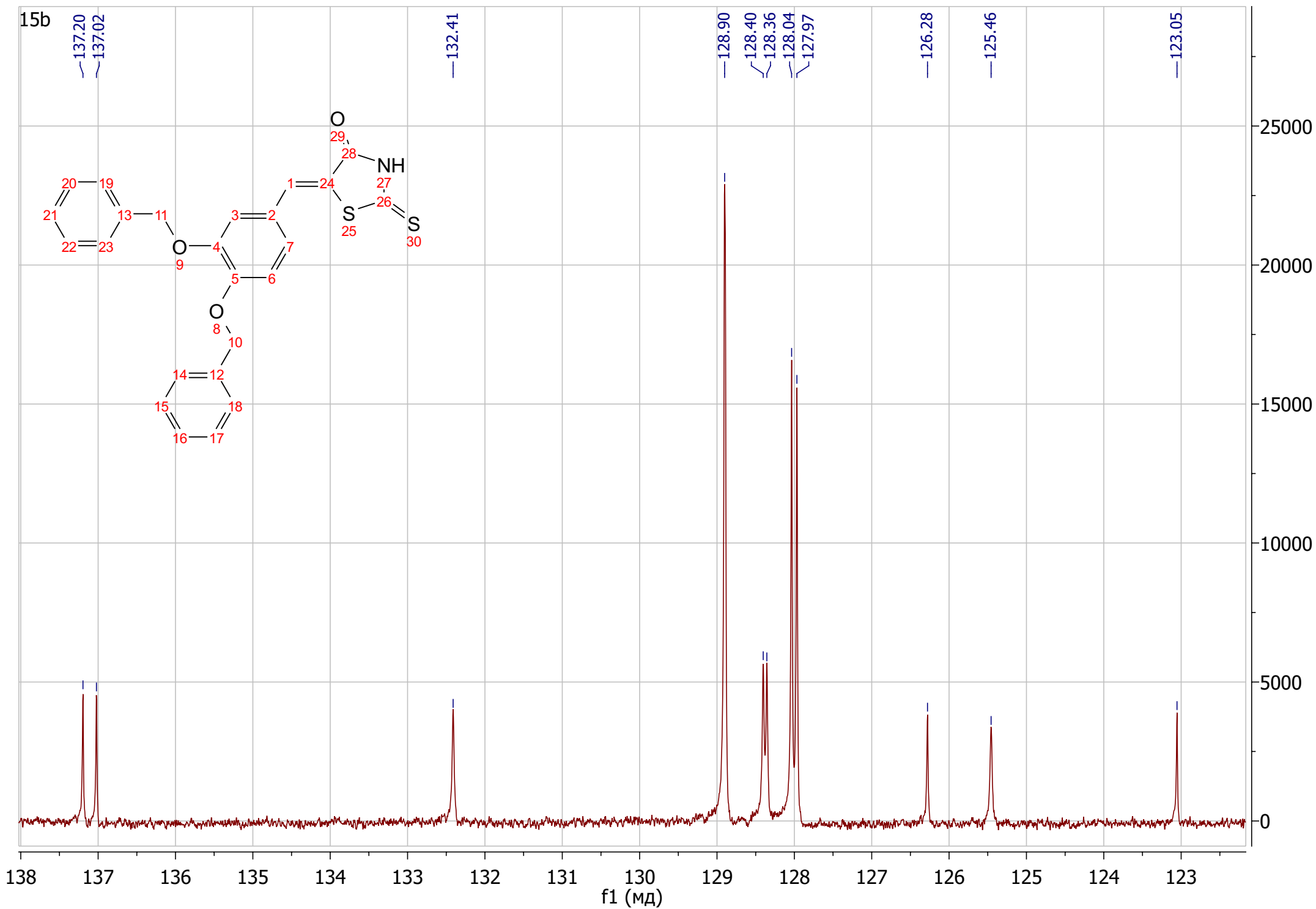
10b



15b

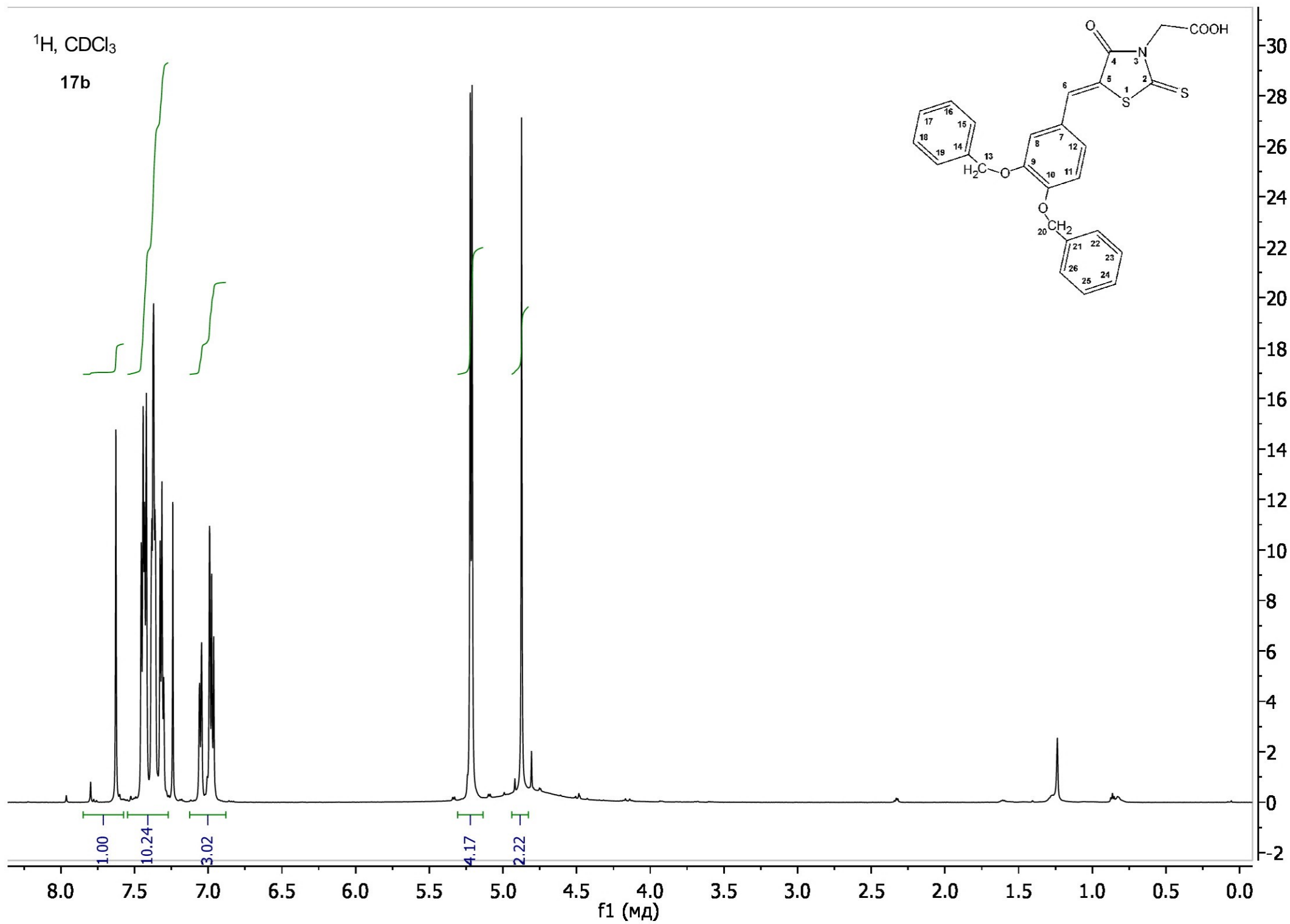
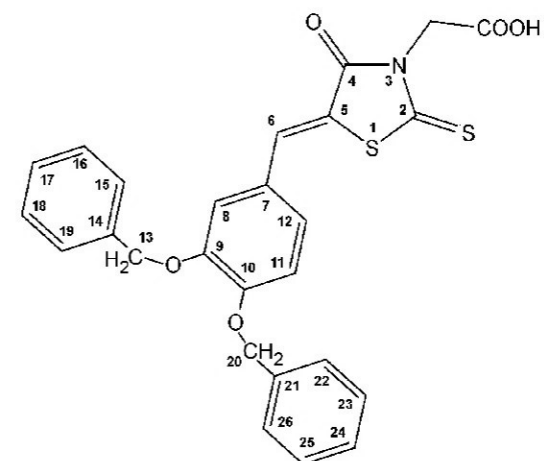
15b





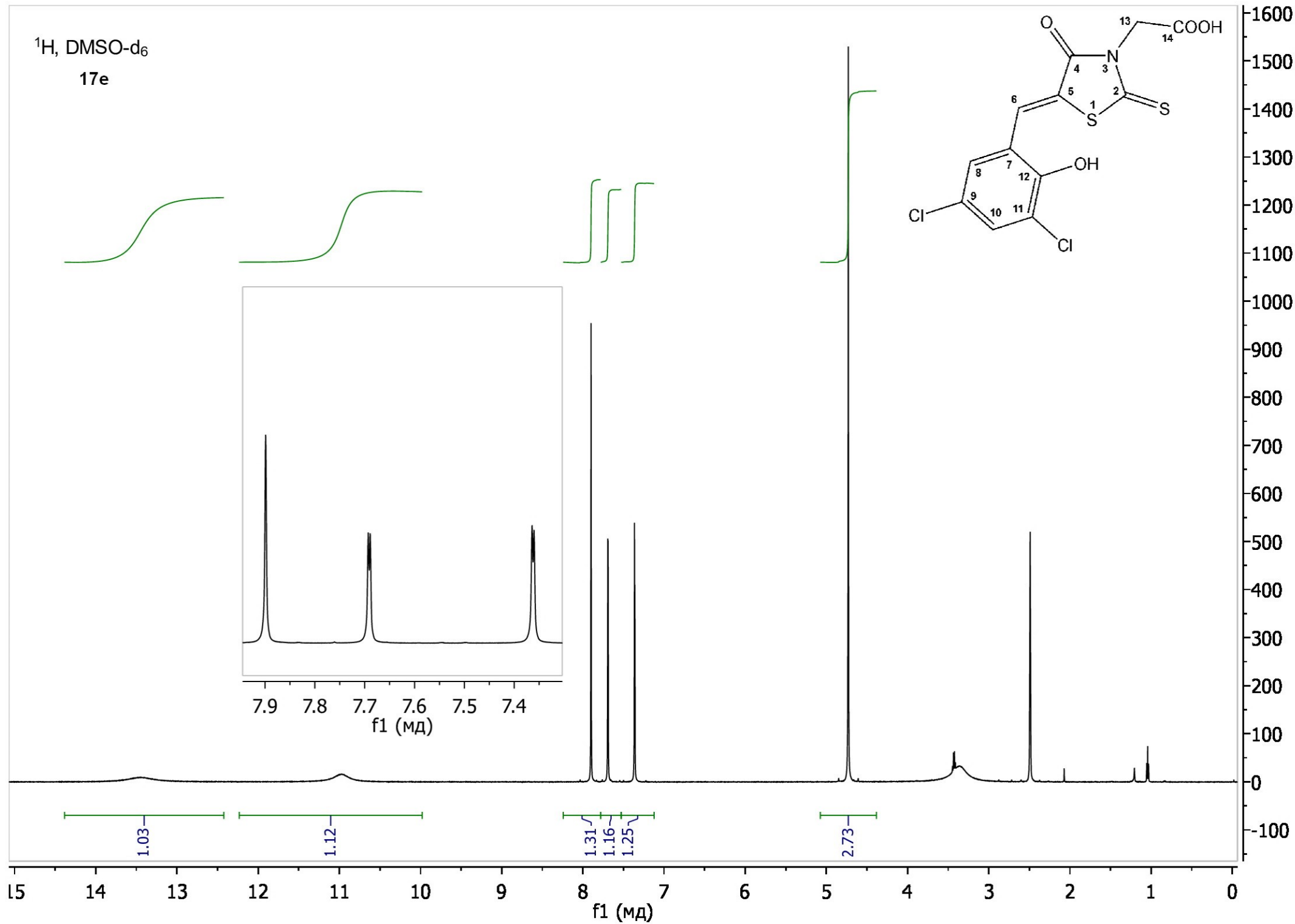
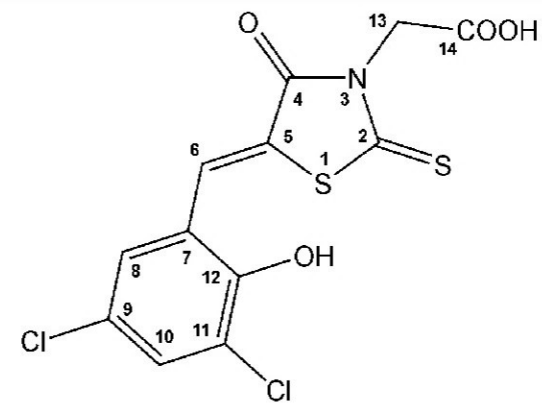
^1H , CDCl_3

17b



^1H , DMSO- d_6

17e



^{13}C , DMSO- d_6

17e

