Supplementary Information for:

Synthesis of Arabinofuranose Branched Galactofuran Tetrasaccharides Constituents of Mycobacterial Arabinogalactan

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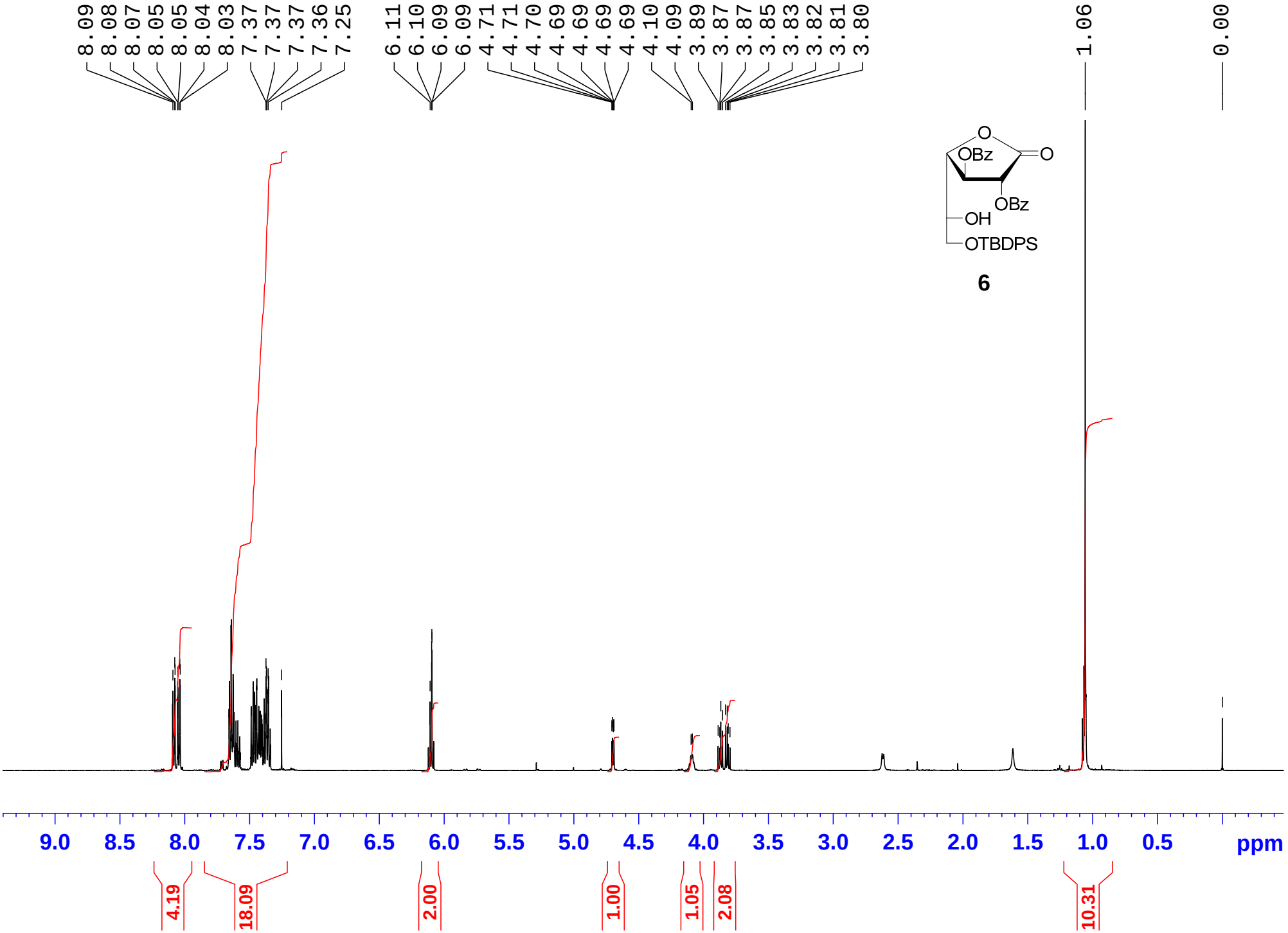
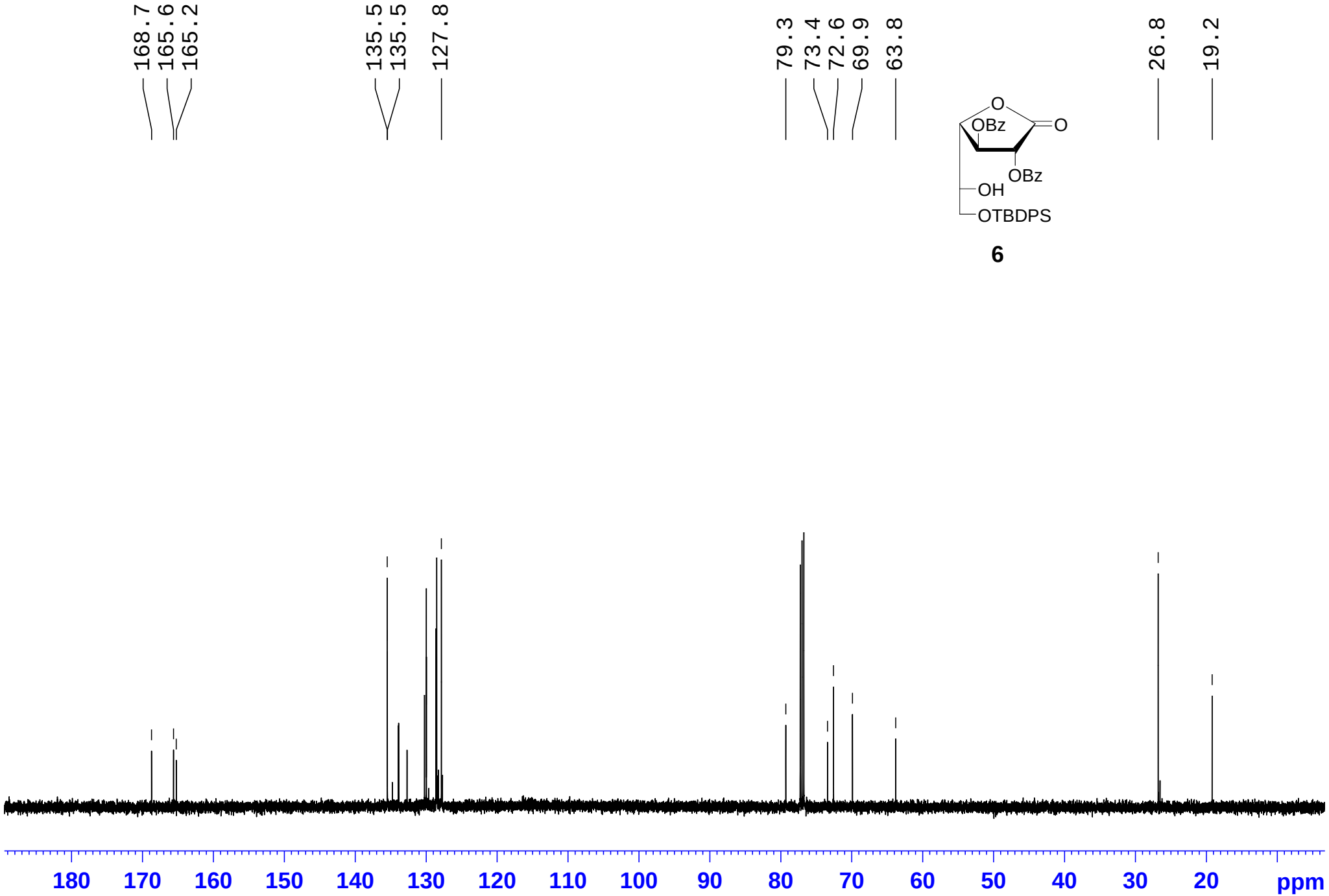
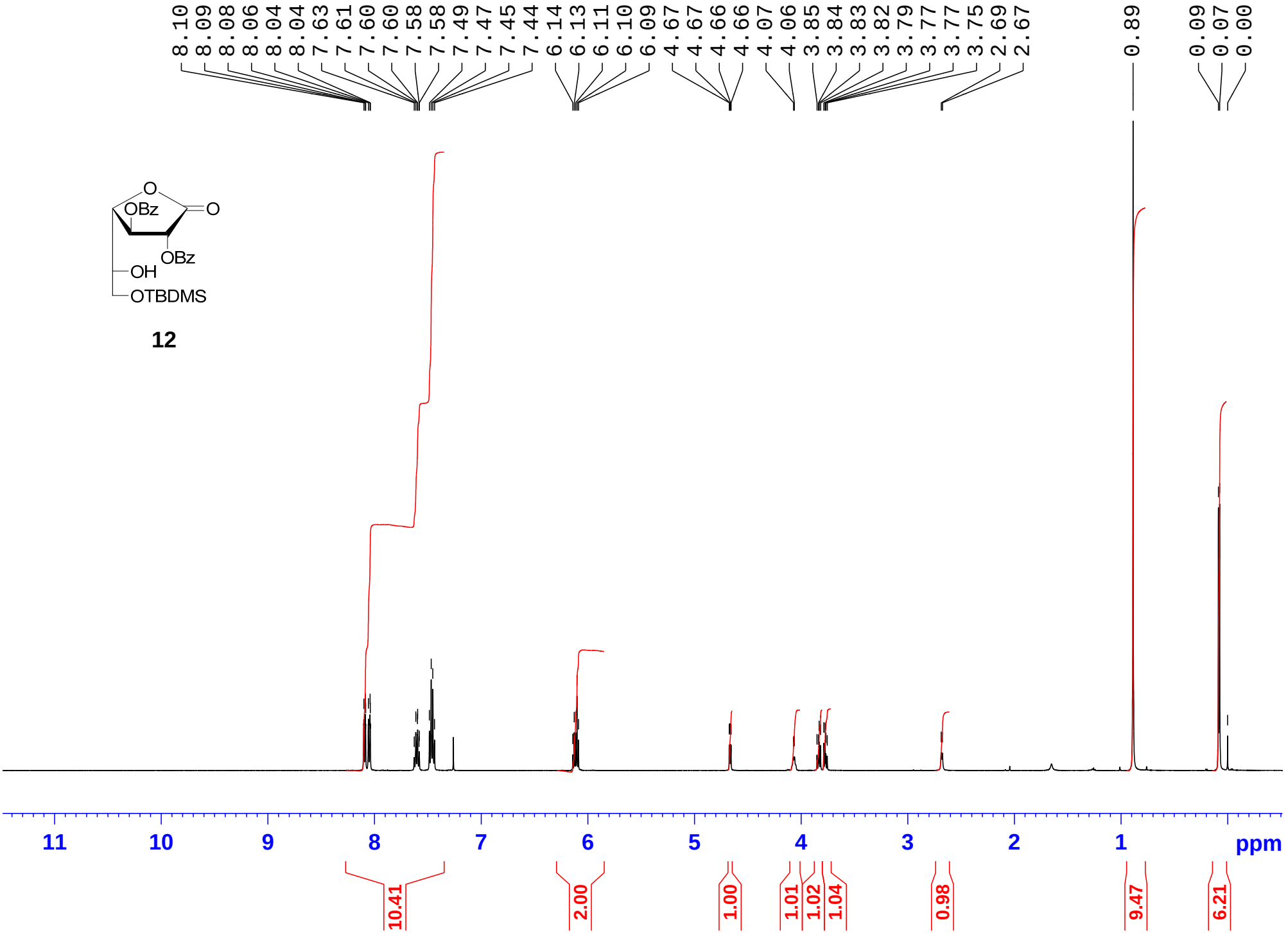


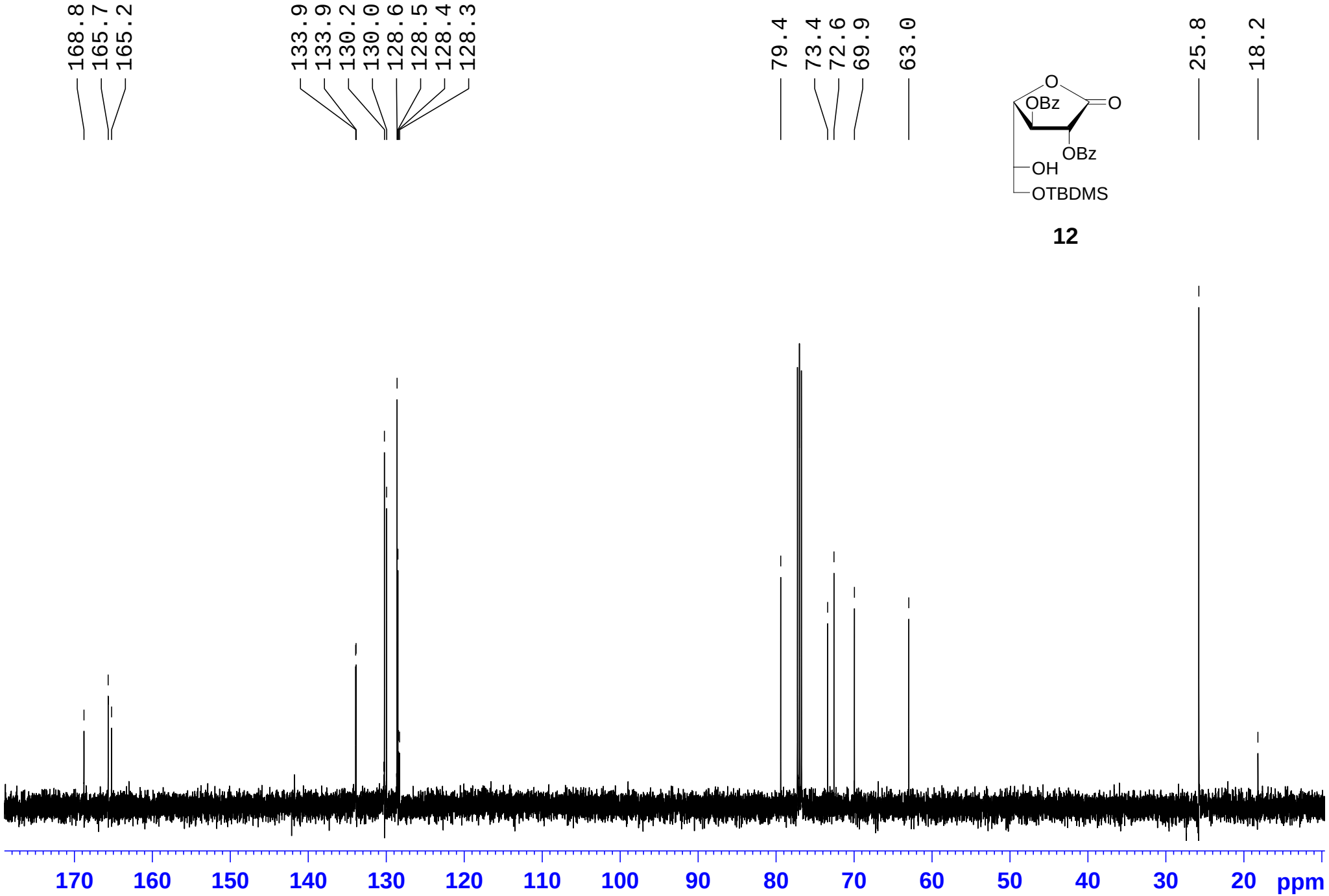
^{1}H NMR spectrum of compound **6** ($CDCl_3$; 500 MHz).



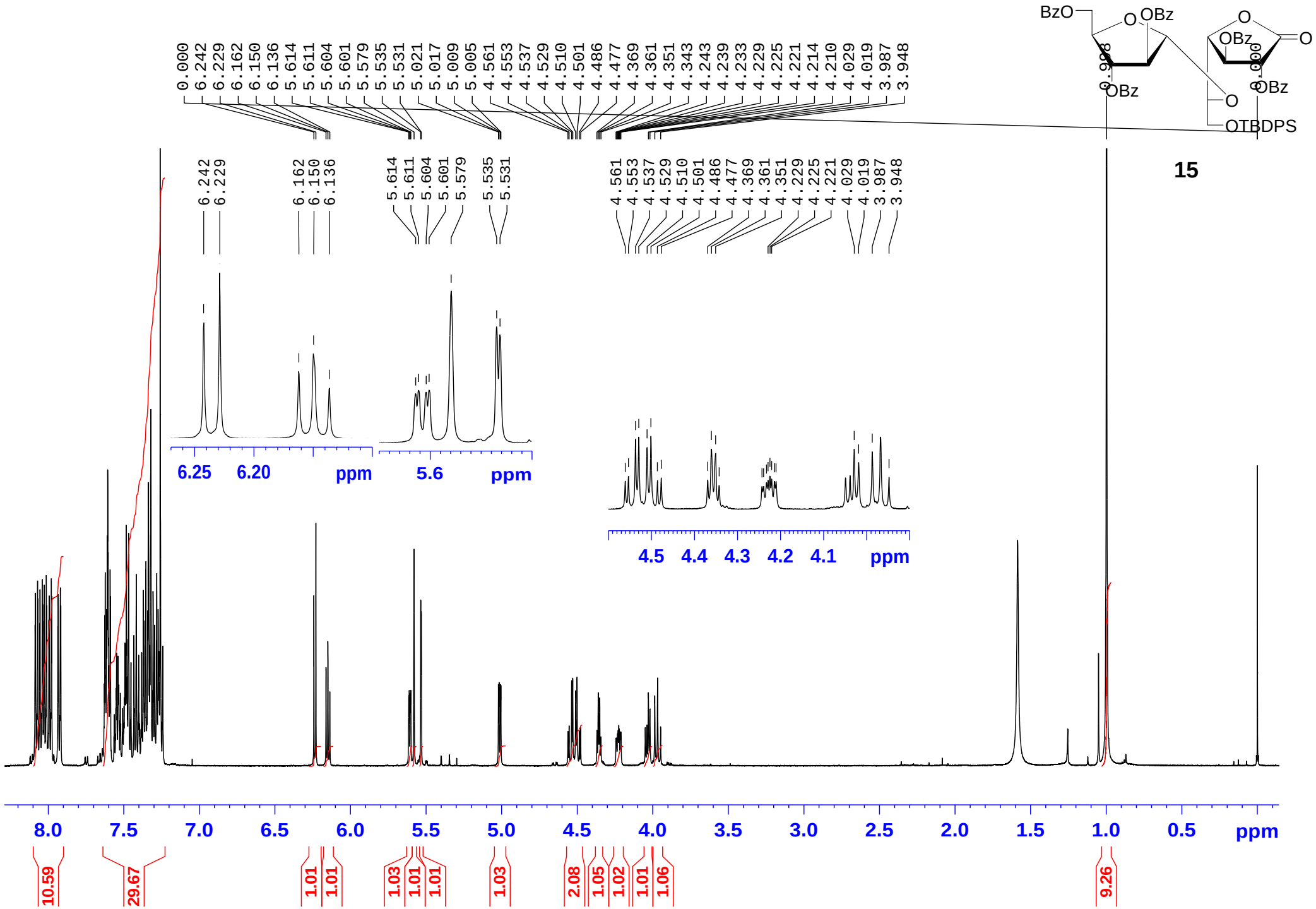
^{13}C NMR spectrum of compound **6** ($CDCl_3$; 125.8 MHz).



^{1}H NMR spectrum of compound **12** ($CDCl_3$, 500 MHz).

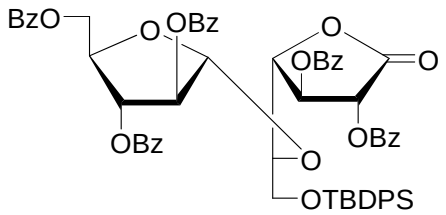


^{13}C NMR spectrum of compound **12** ($CDCl_3$; 125.8 MHz).



^{1}H NMR spectrum of compound **15** ($CDCl_3$, 500 MHz)

168.8
166.1
165.7
165.4
165.2
135.4
135.4
133.8
127.8
107.5
82.7
81.0
79.3
77.5
77.3
77.0
76.7
73.9
72.4
63.4
61.9
26.8
19.1



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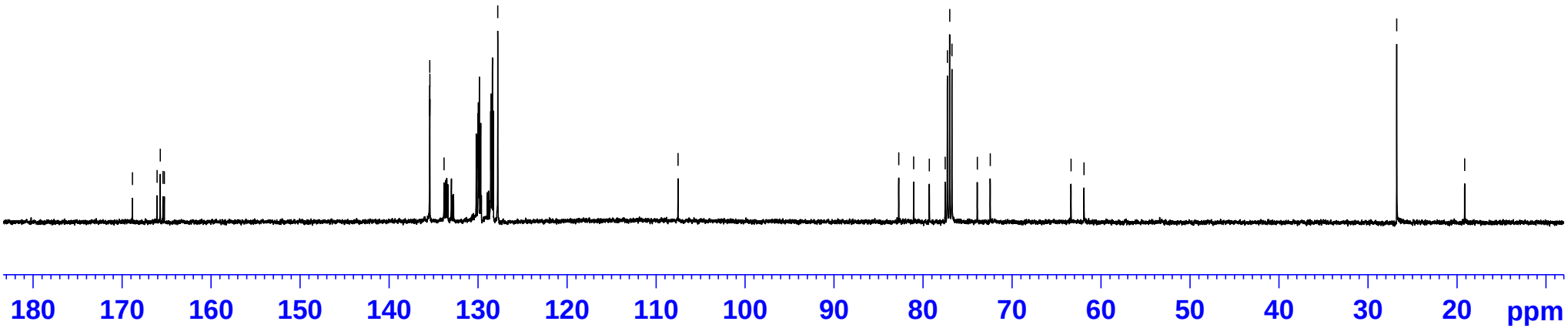
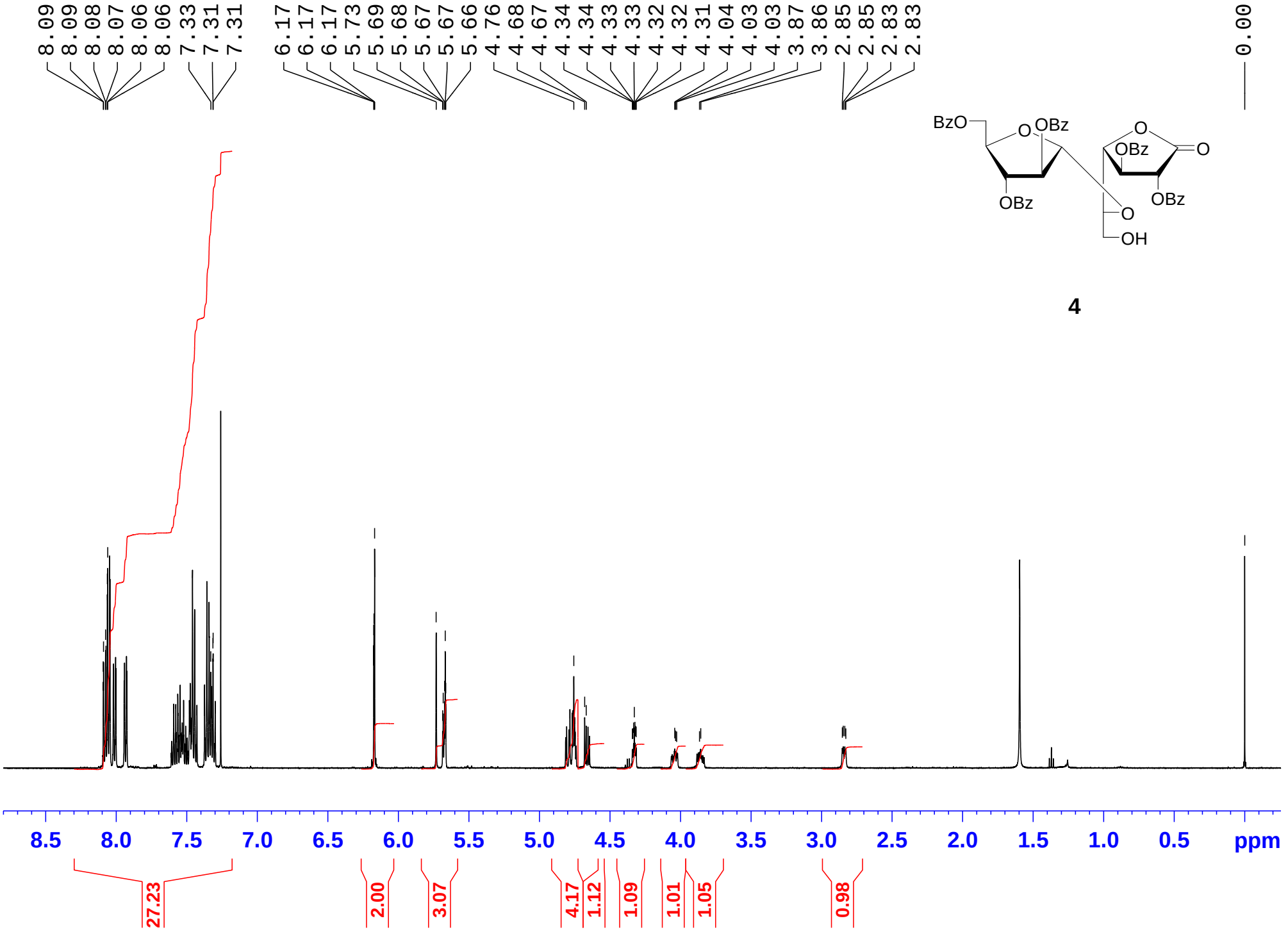
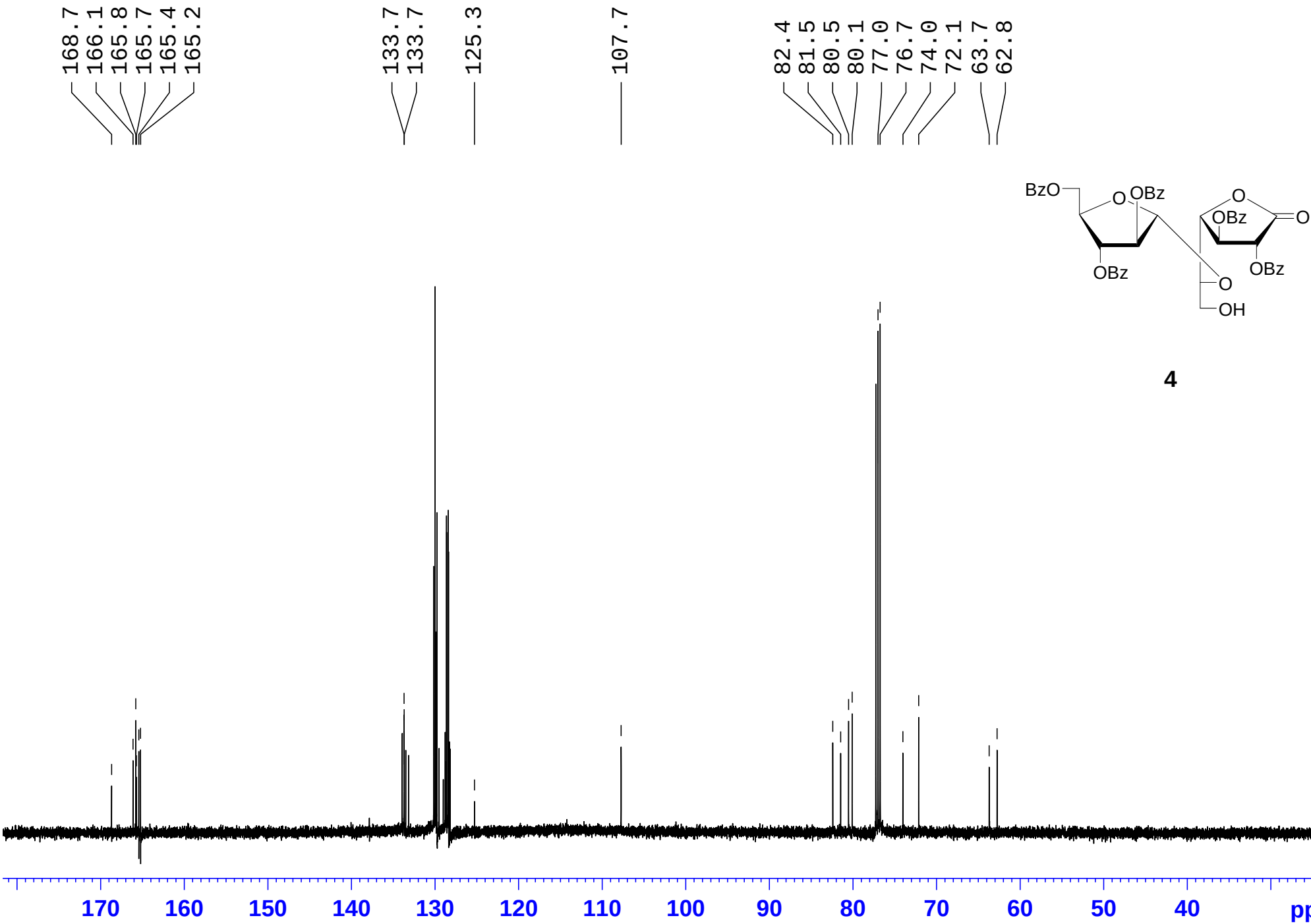


^{13}C NMR spectrum of compound **15** ($CDCl_3$, 125.8 MHz)

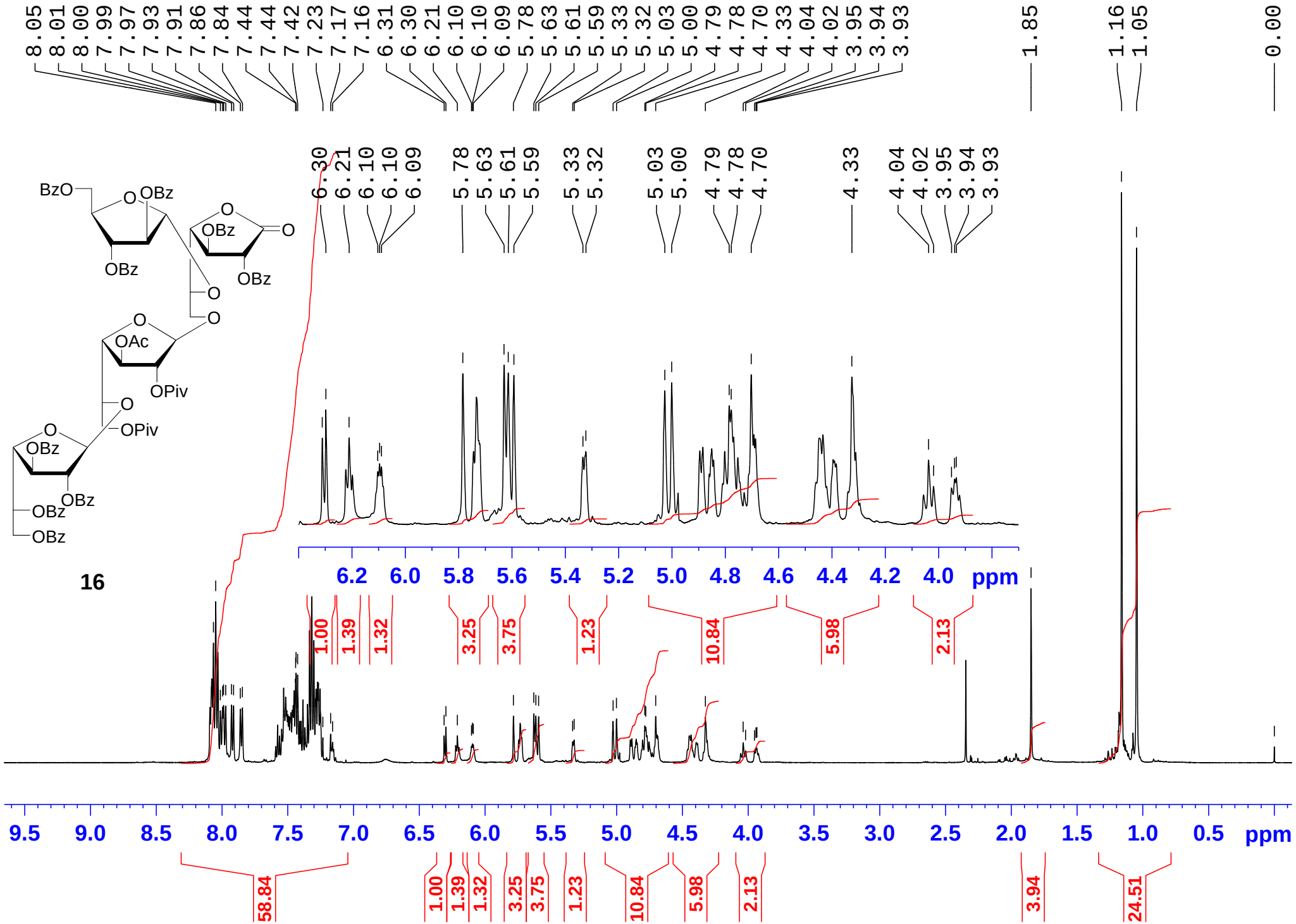


4

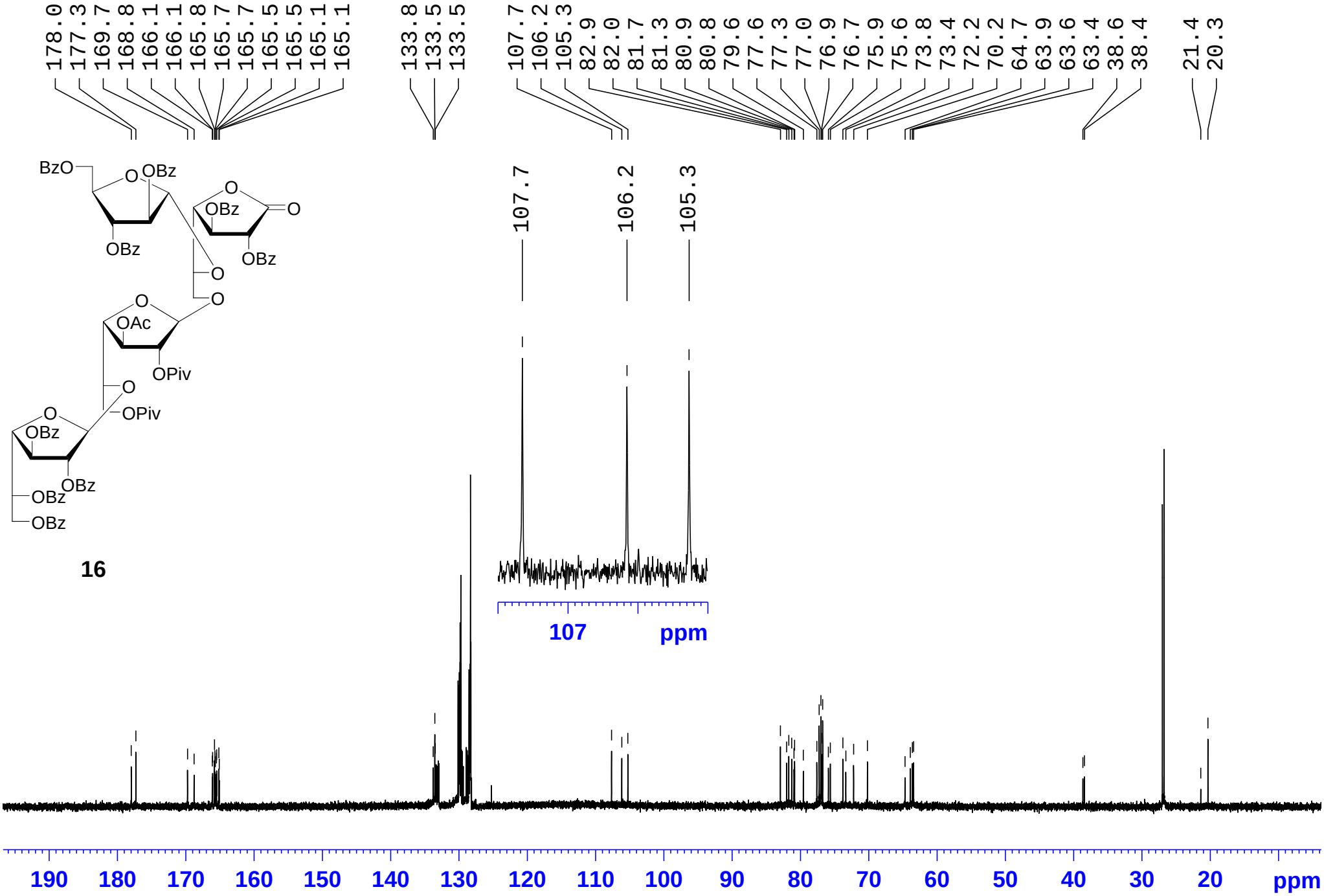
^{1}H NMR spectrum of compound **4** ($CDCl_3$; 500 MHz).



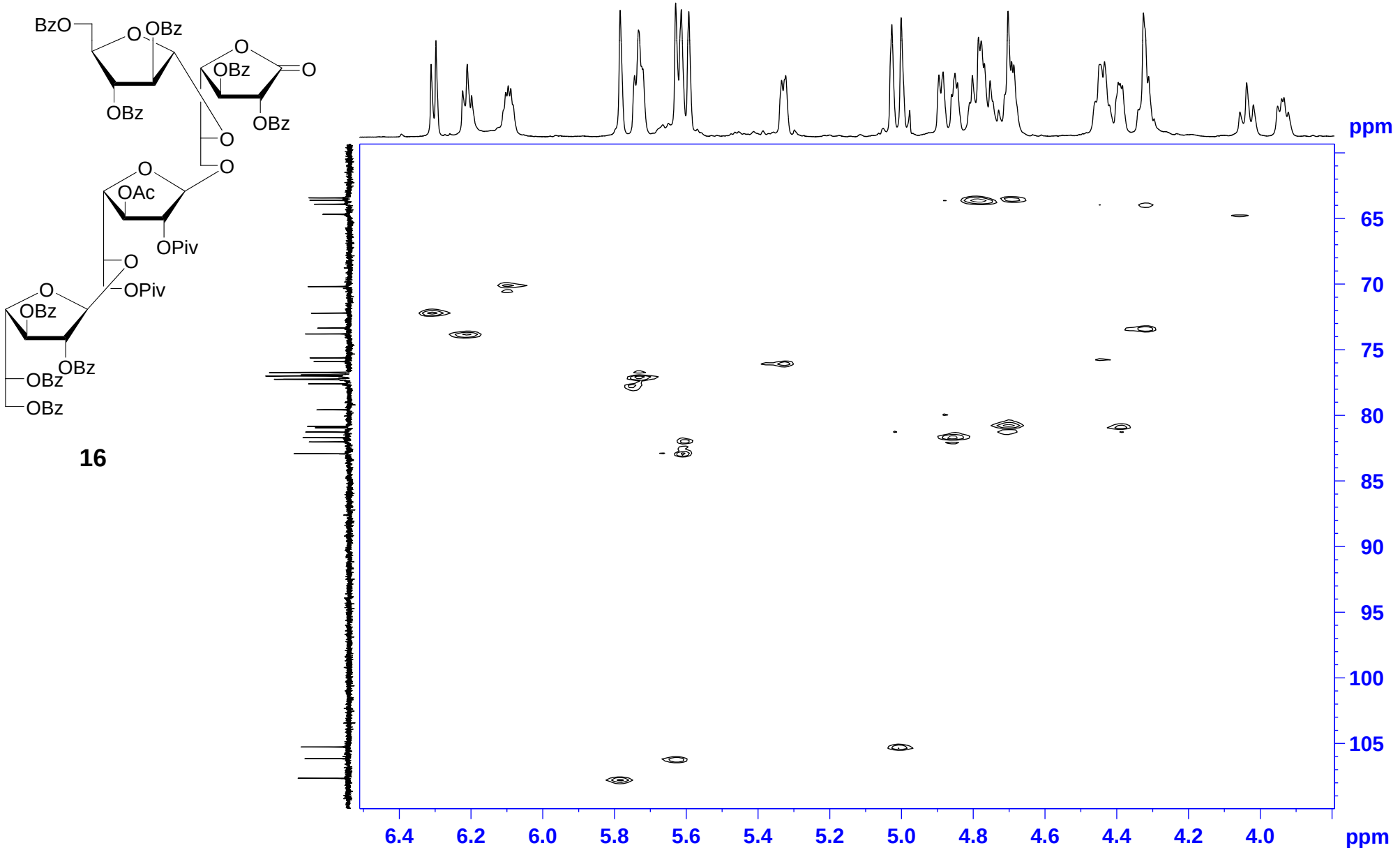
^{13}C NMR spectrum of compound **4** ($CDCl_3$; 125.8 MHz).



^{1}H NMR spectrum of compound **16** ($CDCl_3$, 500 MHz).

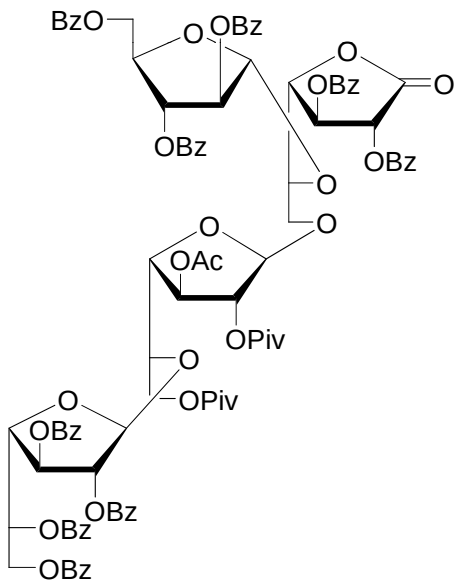


^{13}C NMR spectrum of compound **16** ($CDCl_3$, 125.8 MHz)



16

HSQC spectrum of compound **16** ($CDCl_3$, 125.8 MHz)



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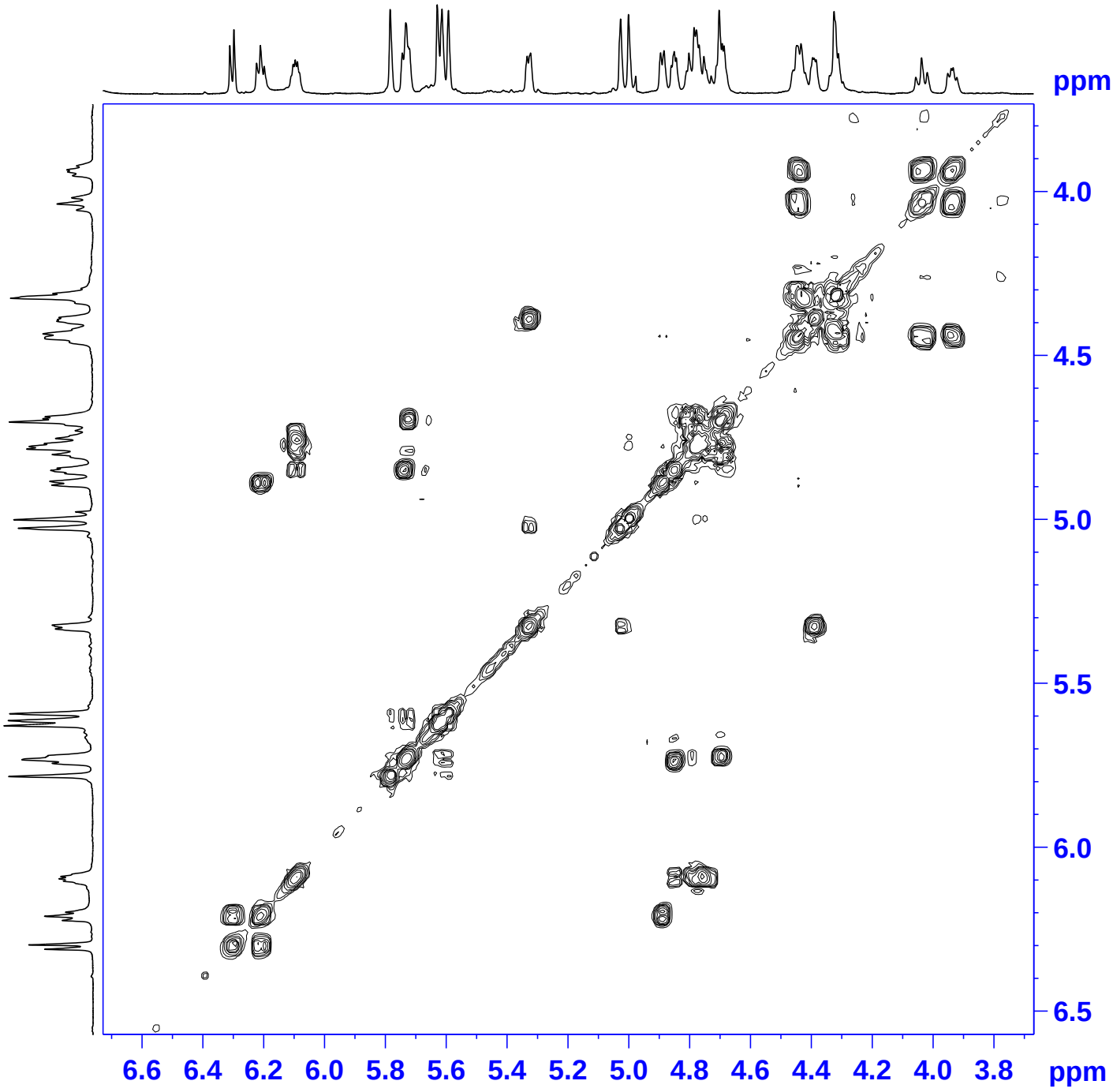
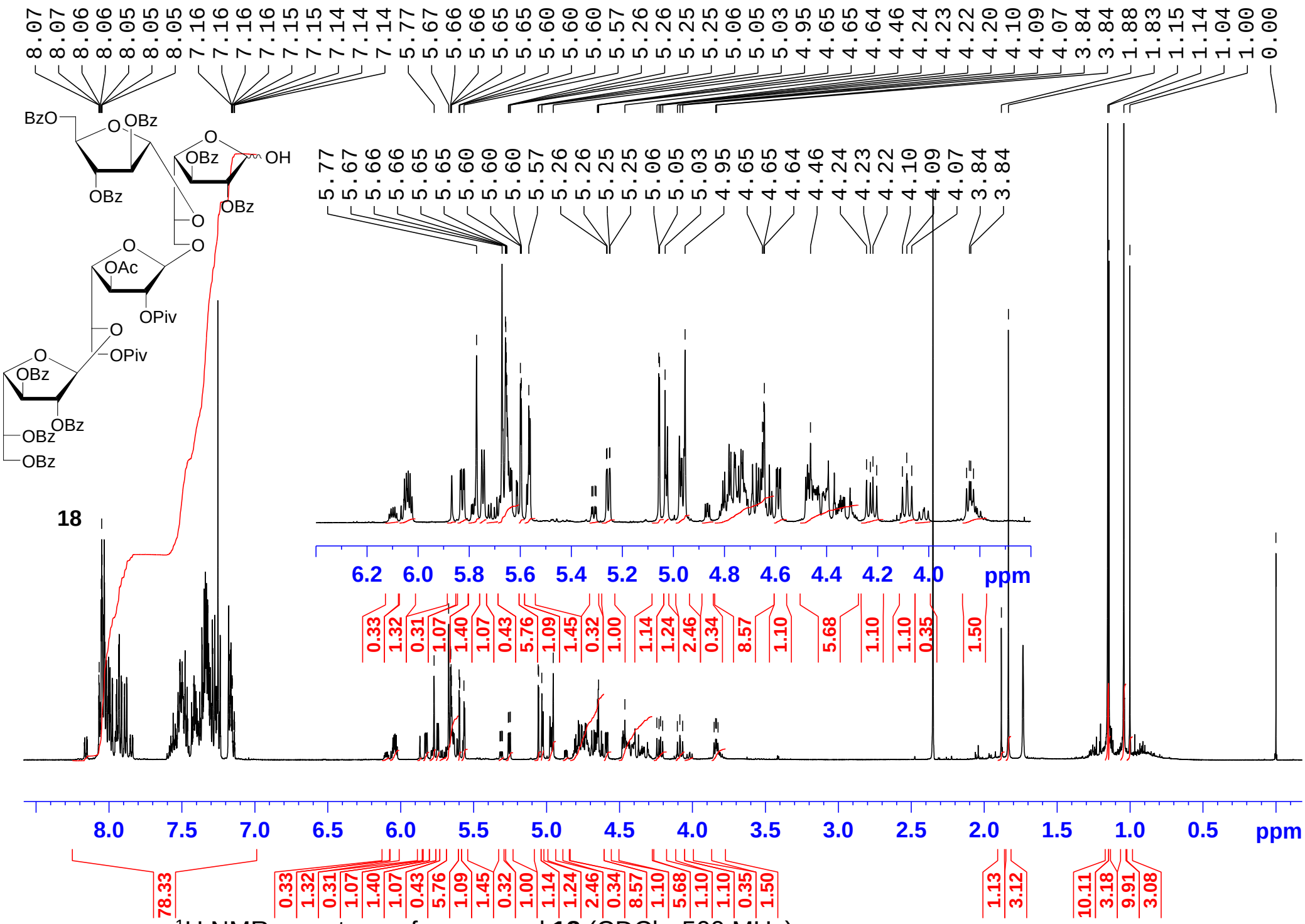
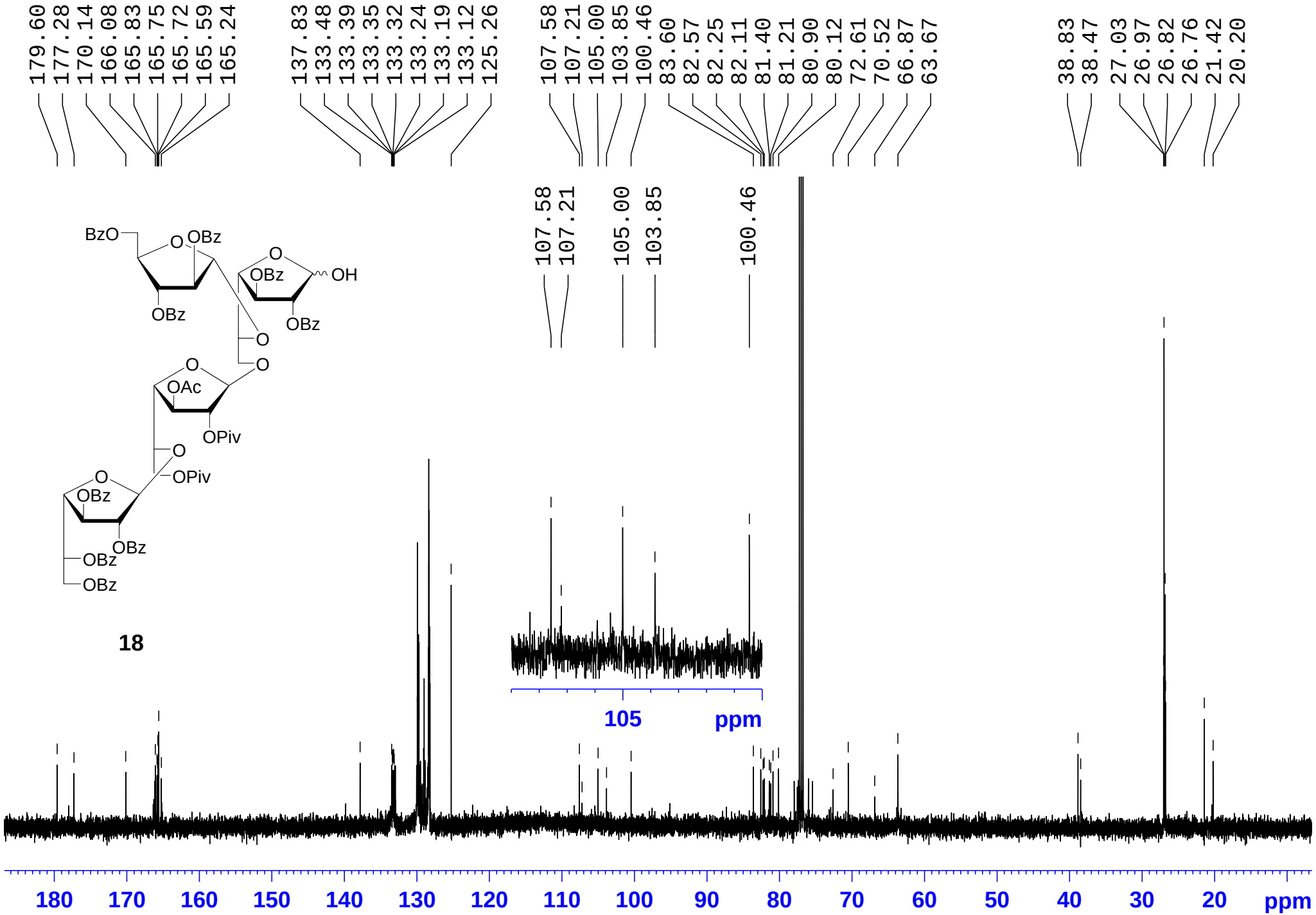


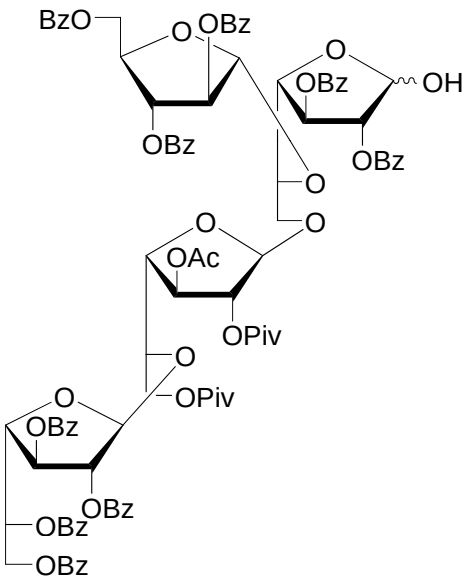
COSY spectrum of compound **16** ($CDCl_3$, 500 MHz)



^{1}H NMR spectrum of compound **18** ($CDCl_3$, 500 MHz)



^{13}C NMR spectrum of compound **18** ($CDCl_3$; 125.8 MHz).



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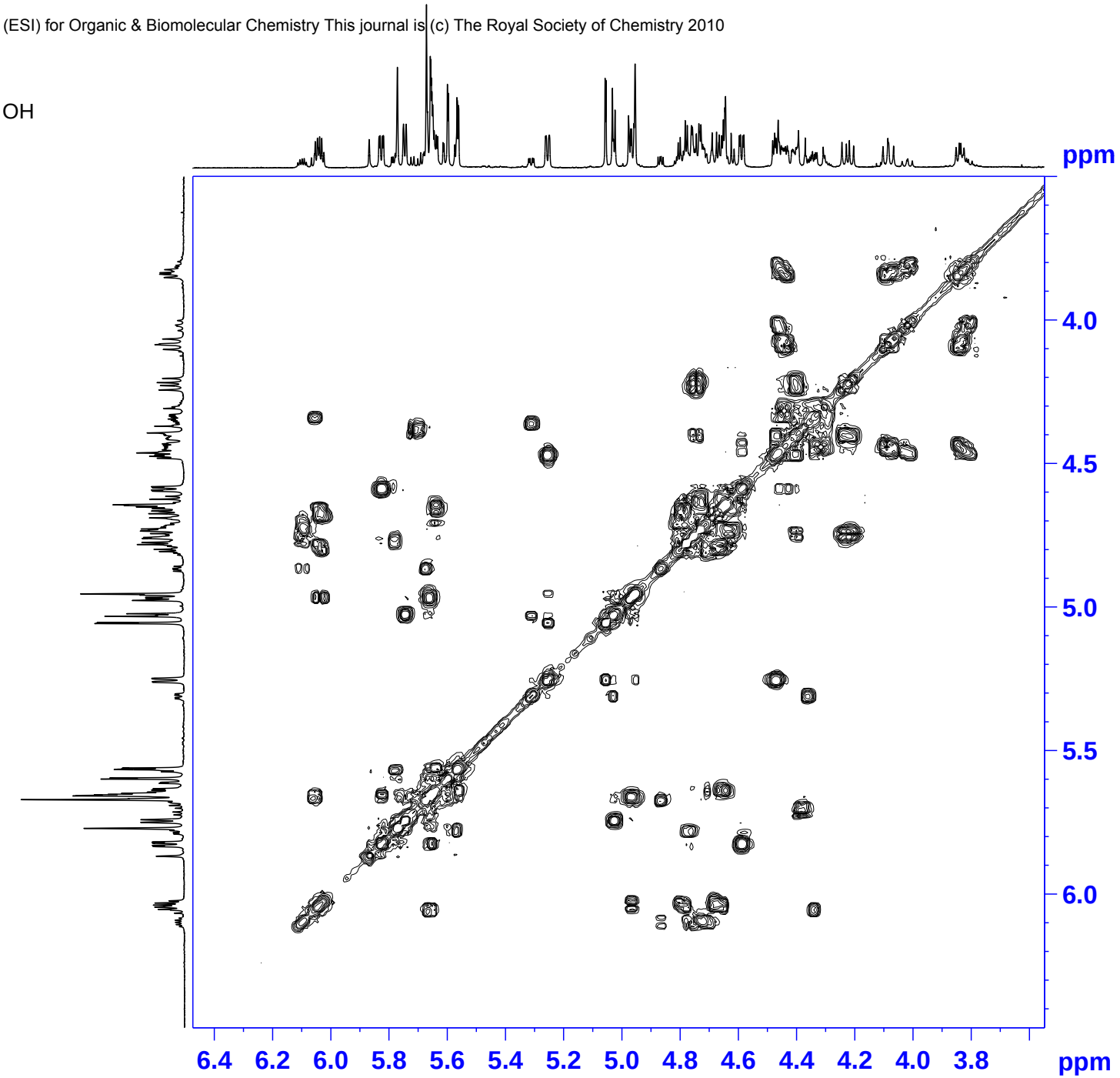
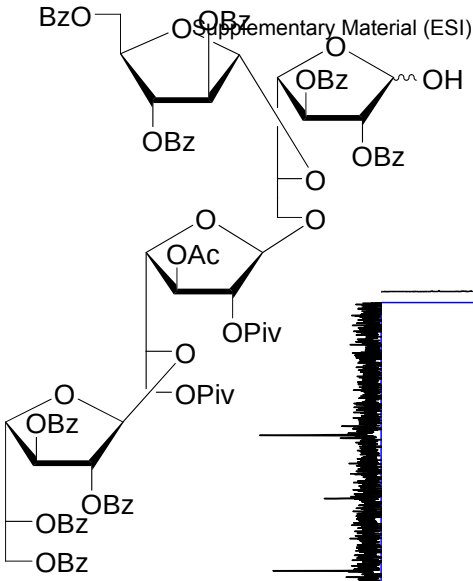


COSY spectrum of compound **18** ($CDCl_3$, 125.8 MHz)



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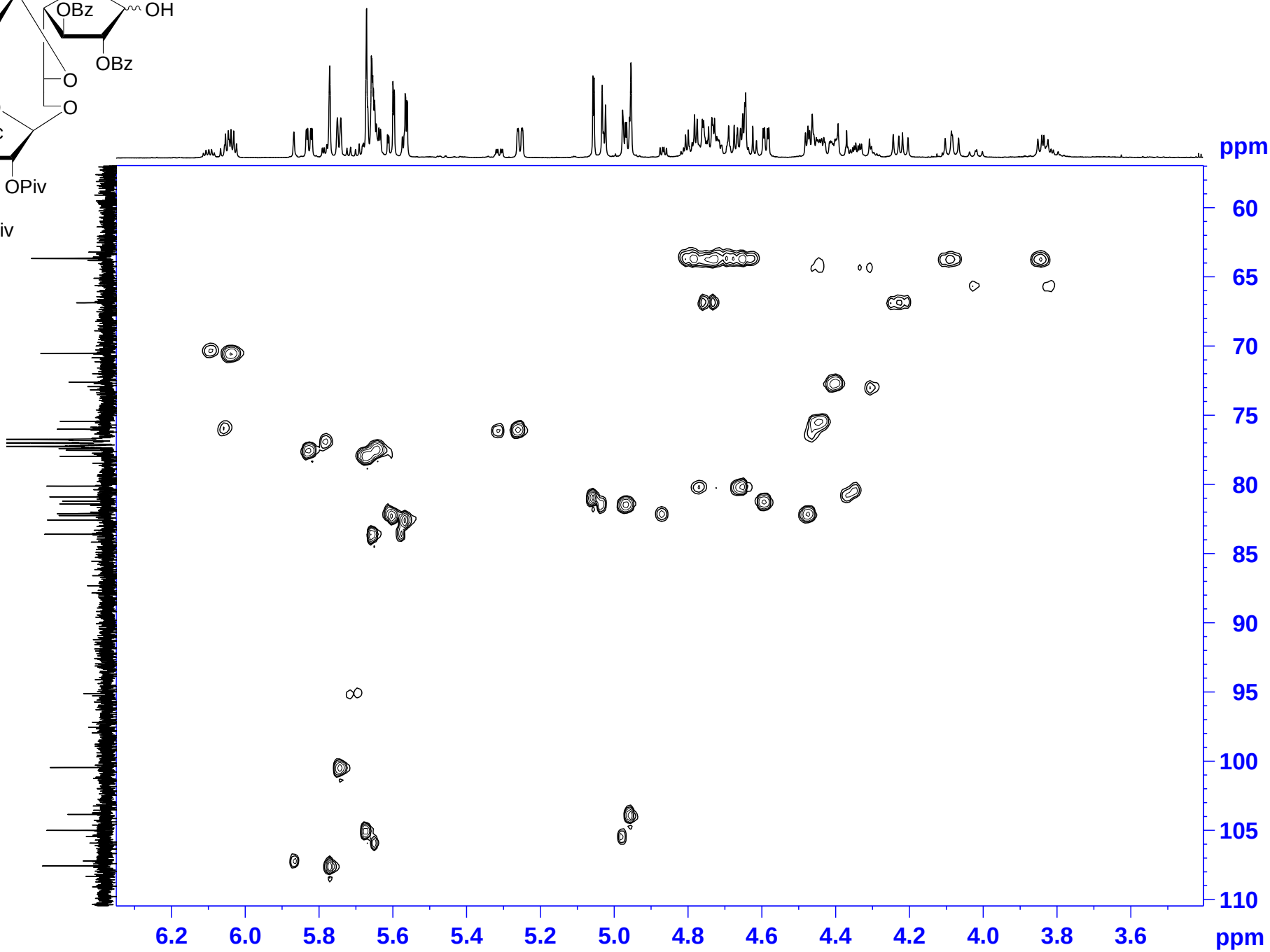
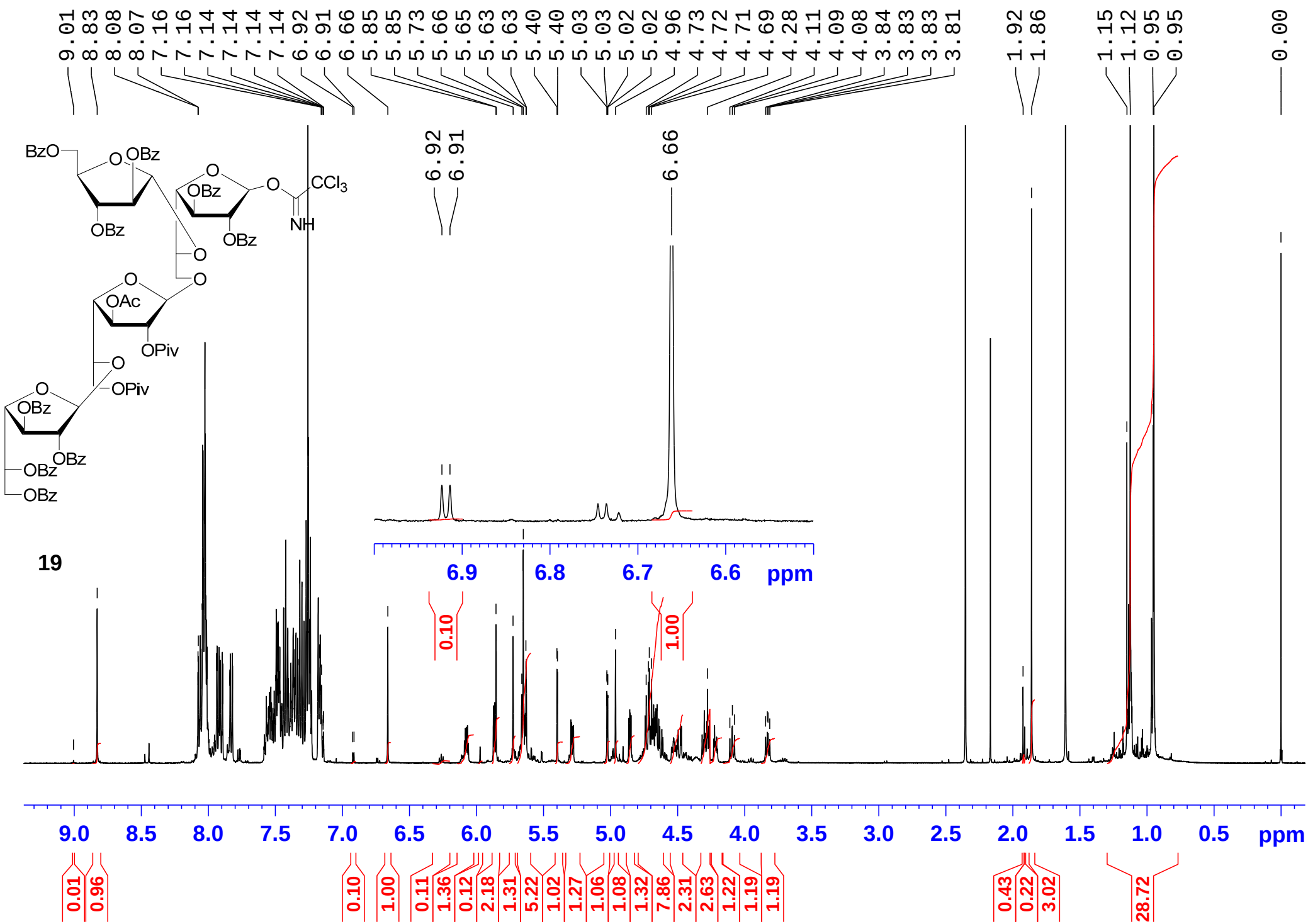
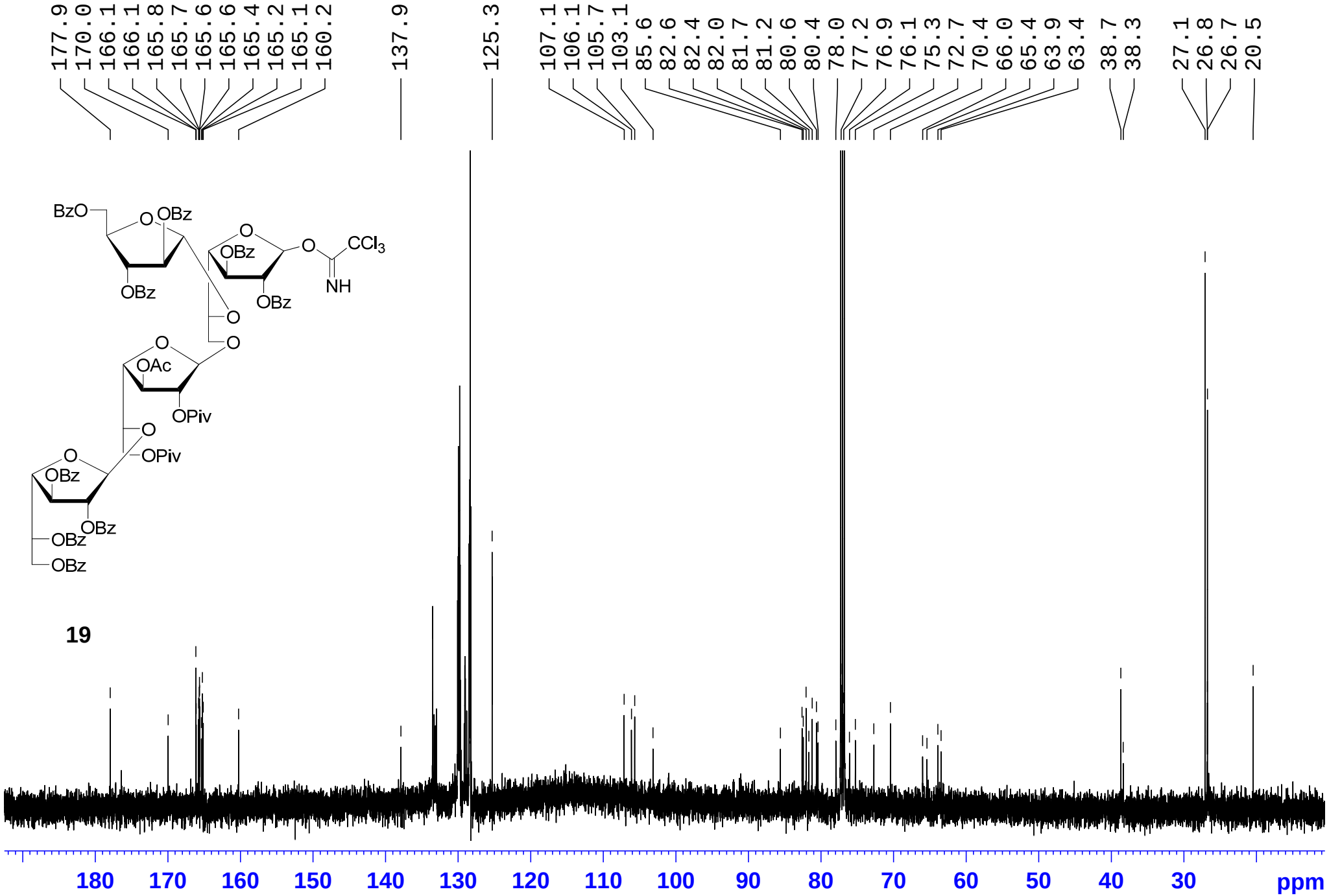


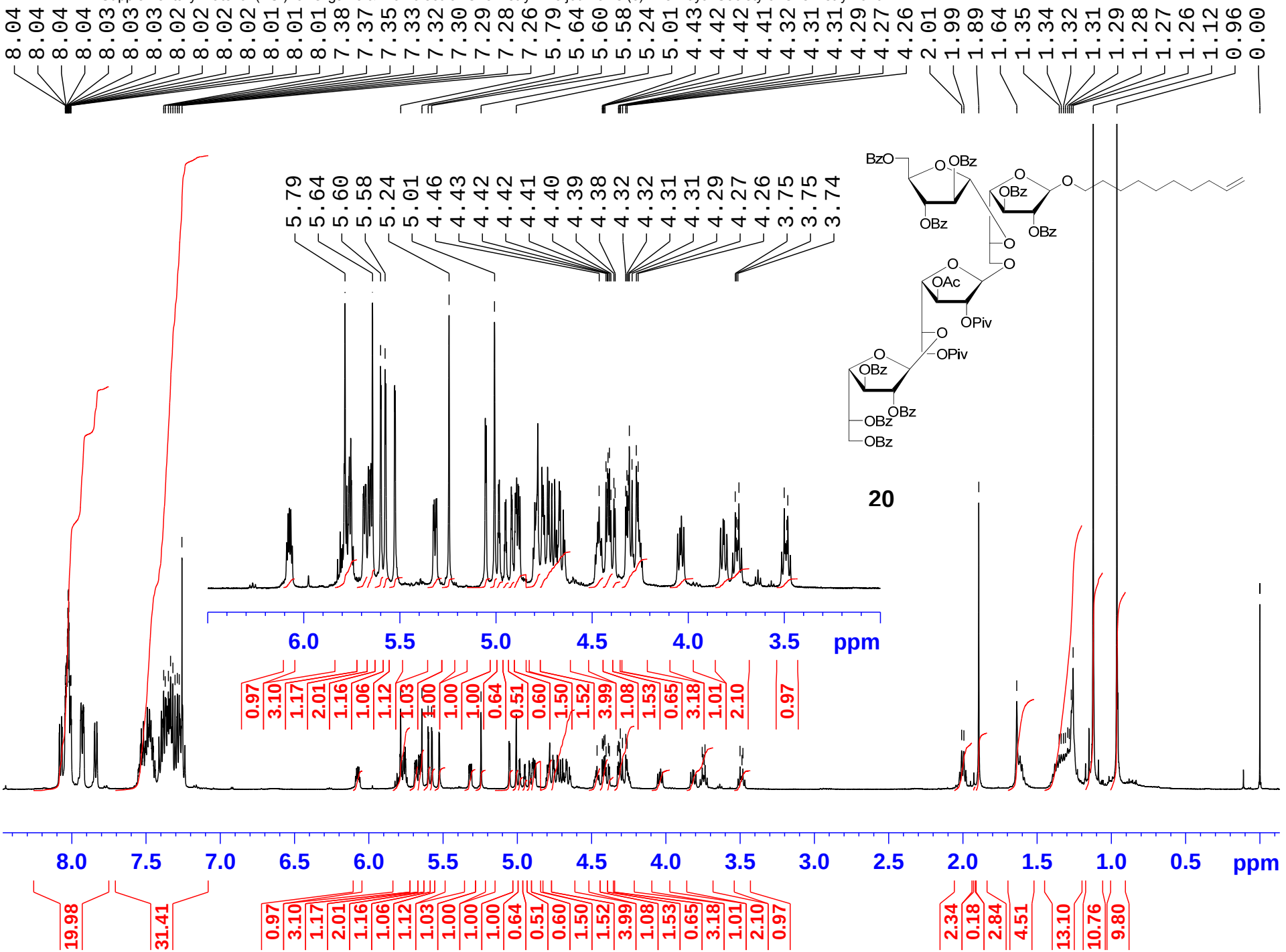
HSQC spectrum of compound **18** ($CDCl_3$, 125.8 MHz)



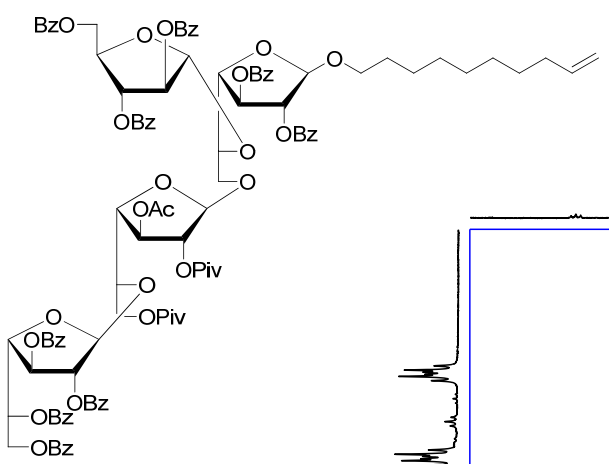
^{1}H NMR spectrum of compound **19** ($CDCl_3$, 500 MHz).



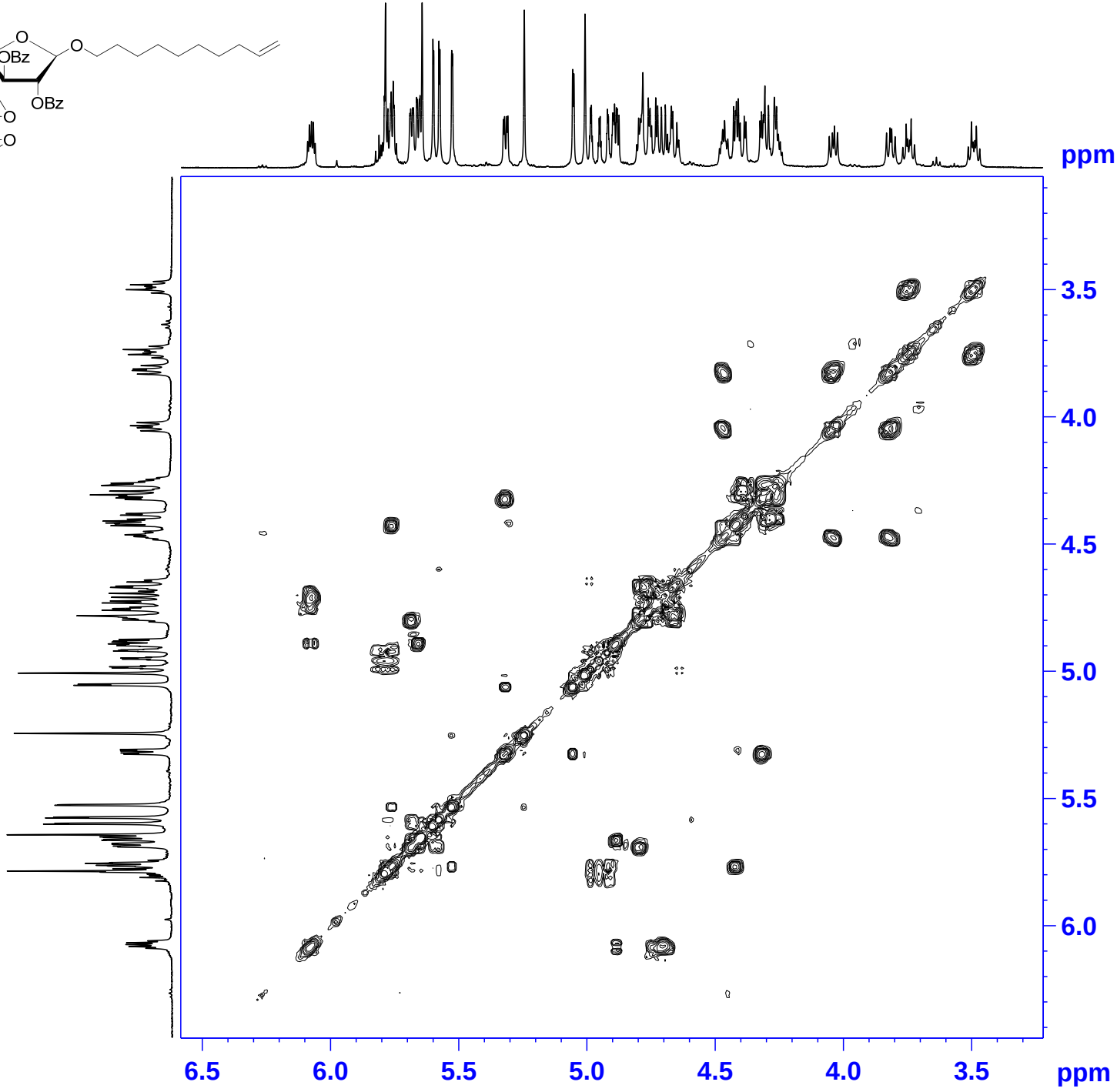
^{13}C NMR spectrum of compound **19** ($CDCl_3$, 125.8 MHz)



^{1}H NMR spectrum of compound **20** ($CDCl_3$, 500 MHz)

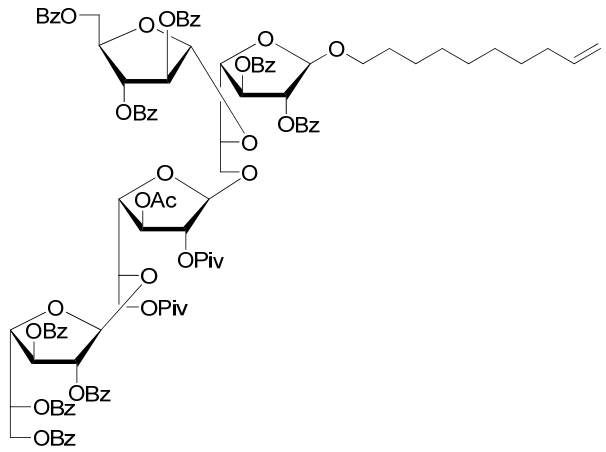


20



COSY spectrum of compound **20** ($CDCl_3$, 500 MHz)

177.8 177.1 170.0 166.1 166.0 165.7 165.6 165.6 165.6 165.3 165.1 139.2 133.5 133.3 133.3 133.2 133.1 128.3 128.3 114.1 106.7 106.0 105.8 105.3 82.7 82.3 82.3 82.1 82.0 81.6 80.8 80.2 77.9 77.5 76.1 75.3 72.7 70.3 67.6 67.0 64.5 63.8 63.4 38.6 38.3 33.7 29.5 29.4 29.1 28.9 27.0 26.7 26.1 20.4



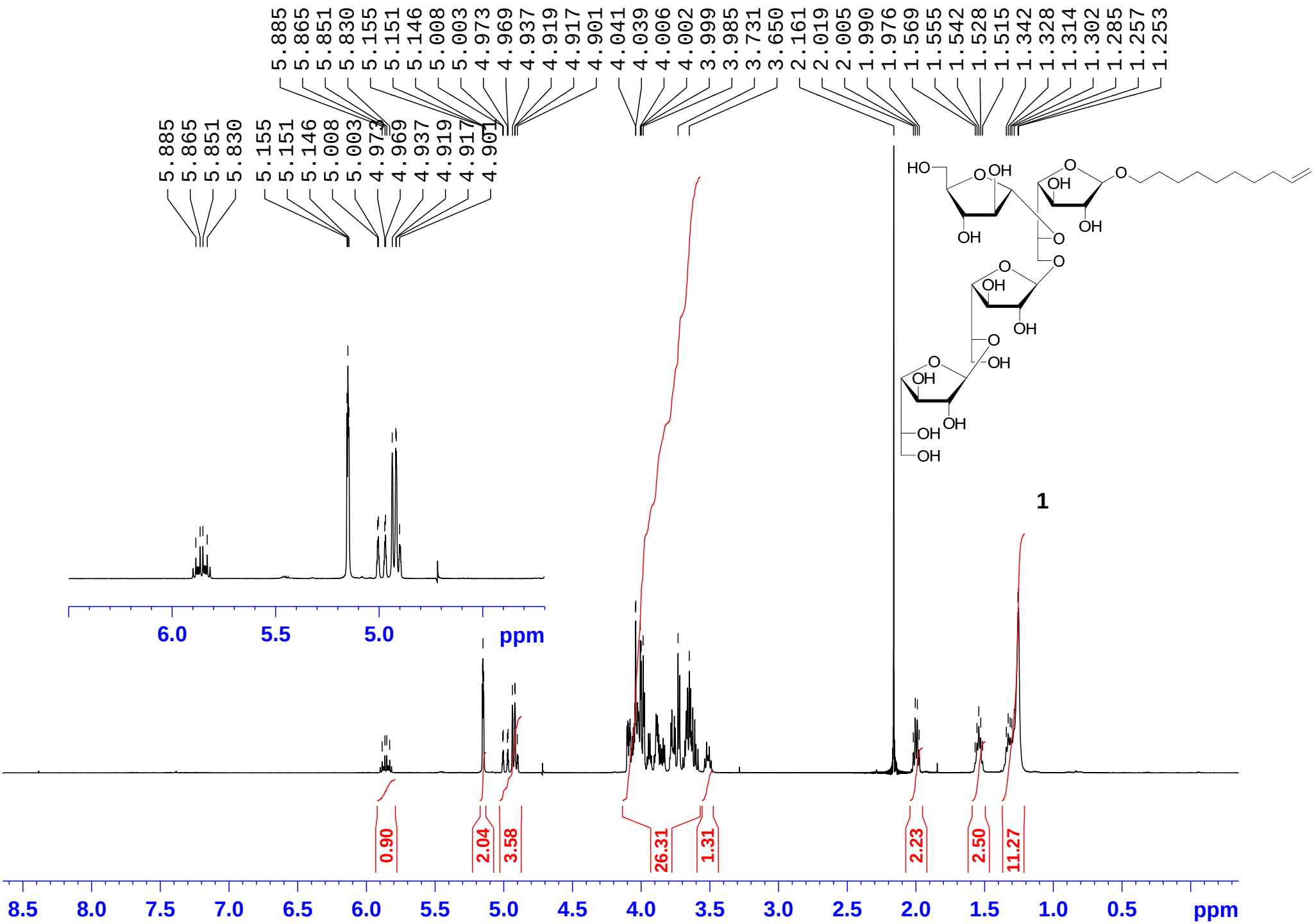
20

106.7 106.0 105.8 105.3

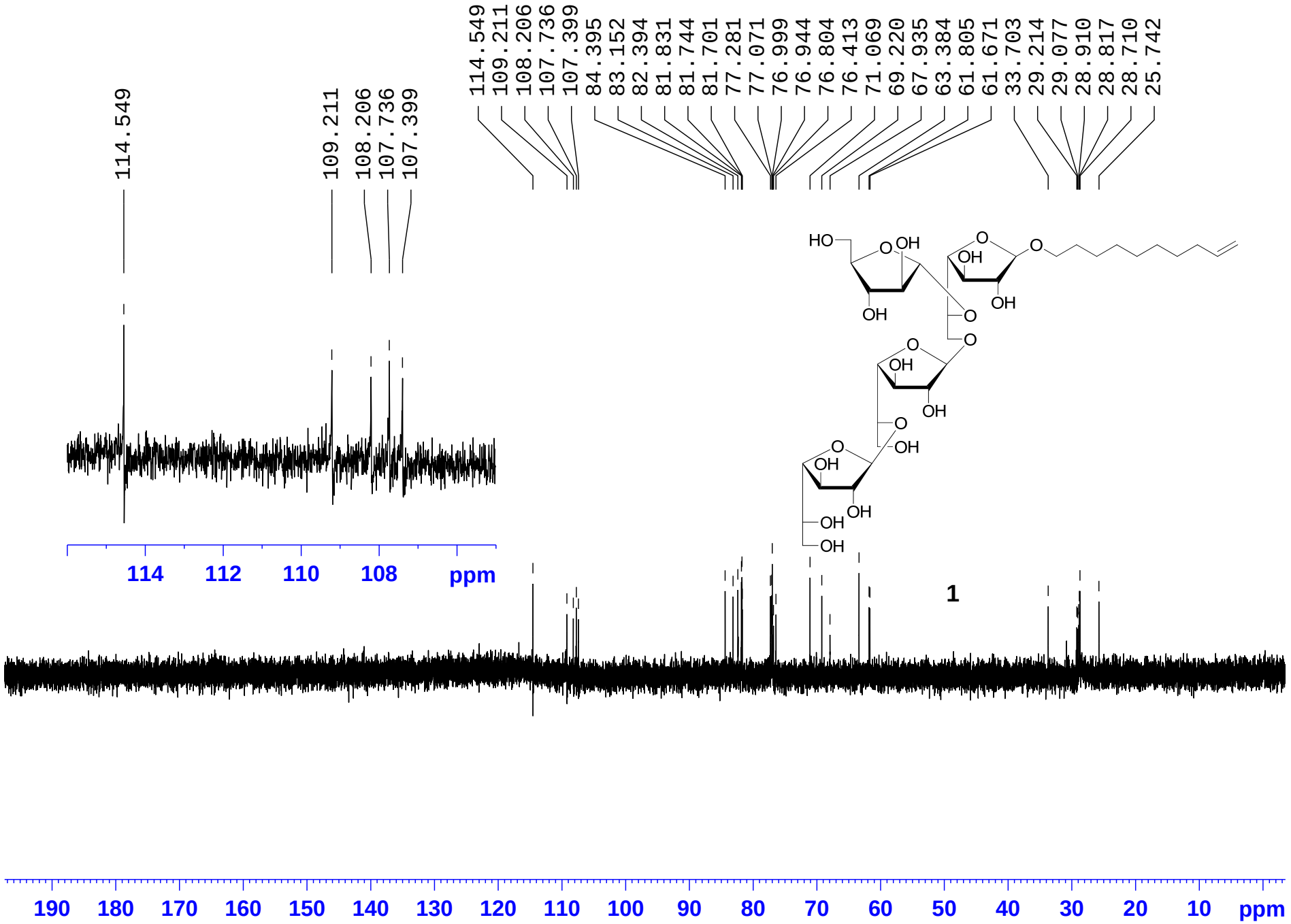
106 ppm

180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 ppm

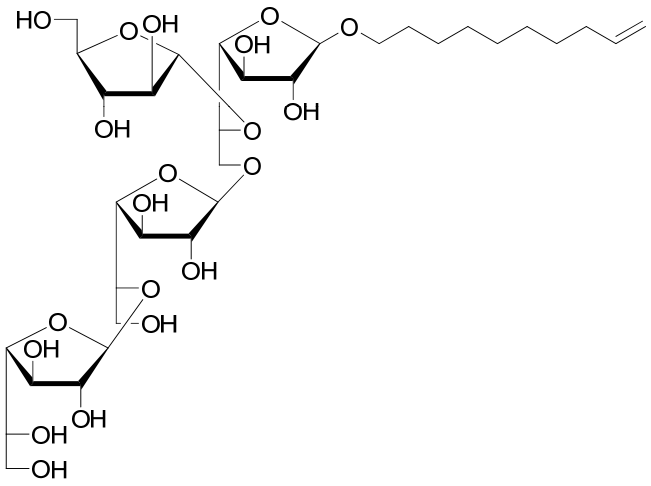
^{13}C NMR spectrum of compound **20** ($CDCl_3$, 125.8 MHz)



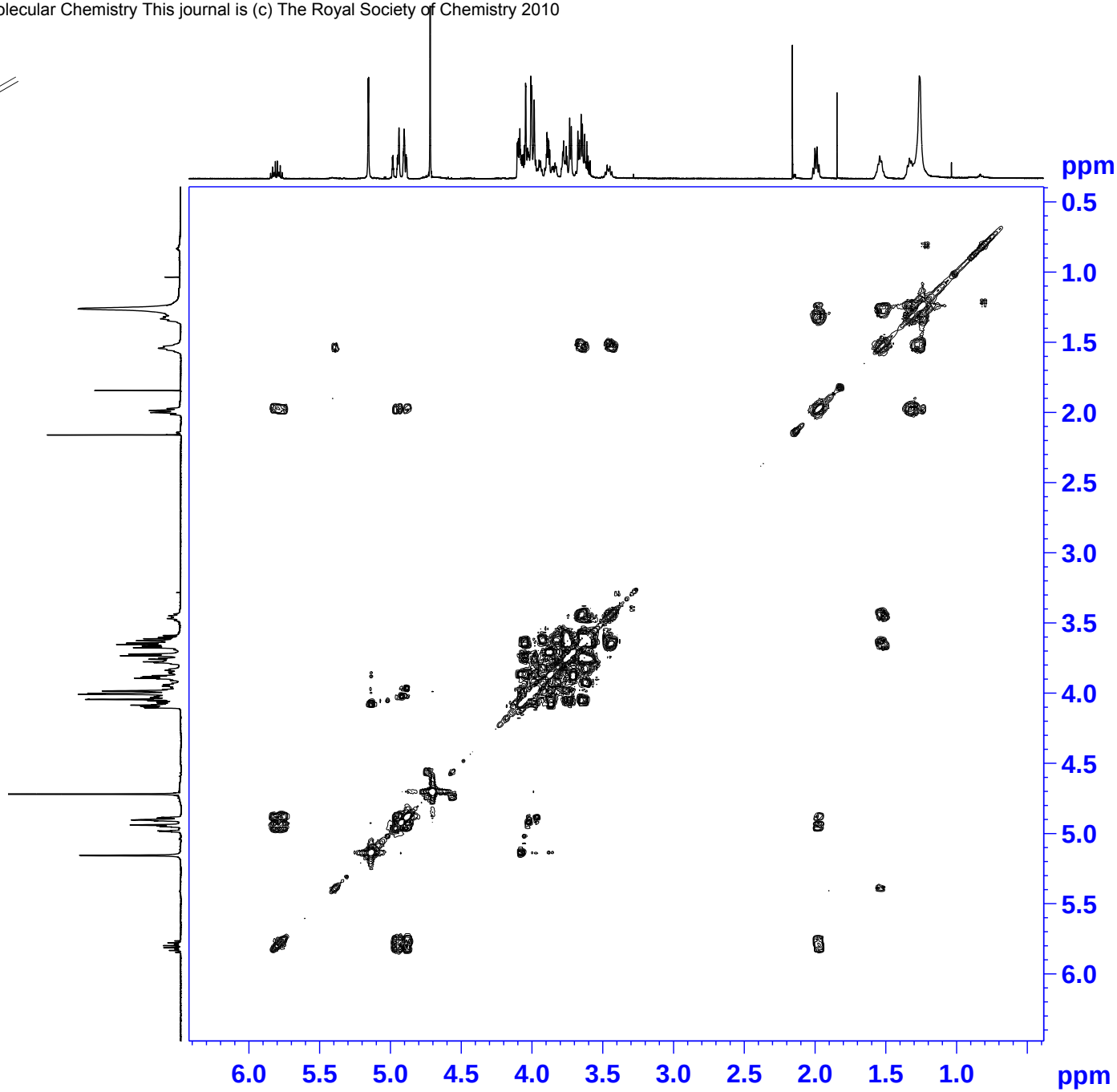
^{1}H NMR spectrum of compound **1** (D_2O; 500 MHz).



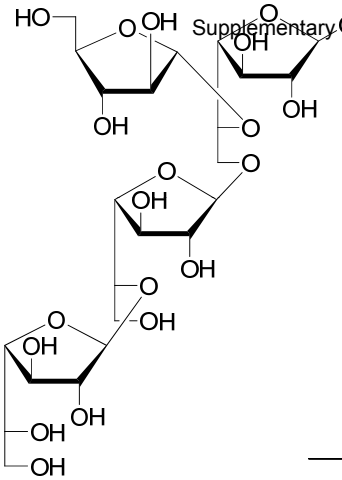
^{13}C NMR spectrum of compound **1** (D_2O, 125.8 MHz)



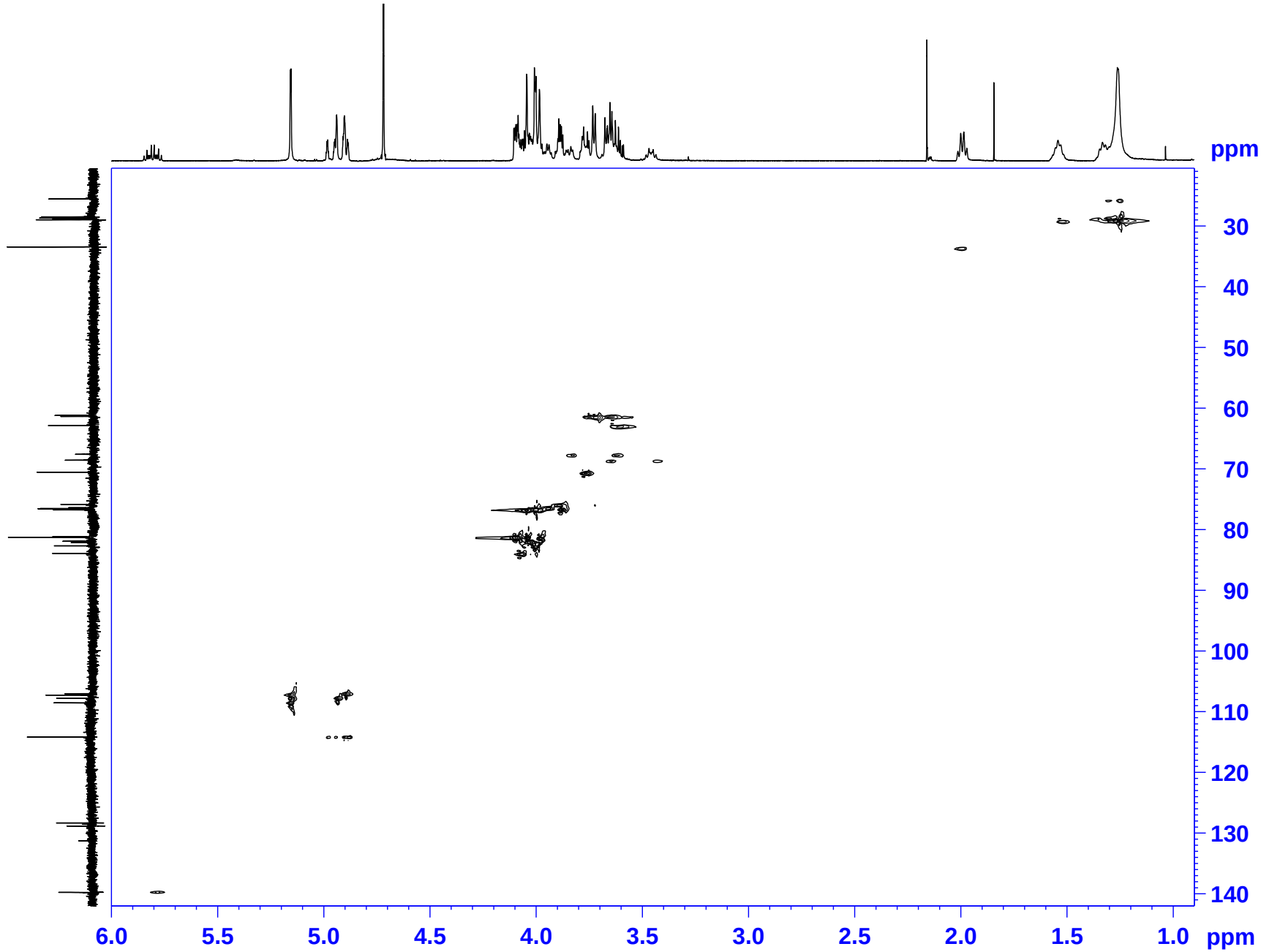
1



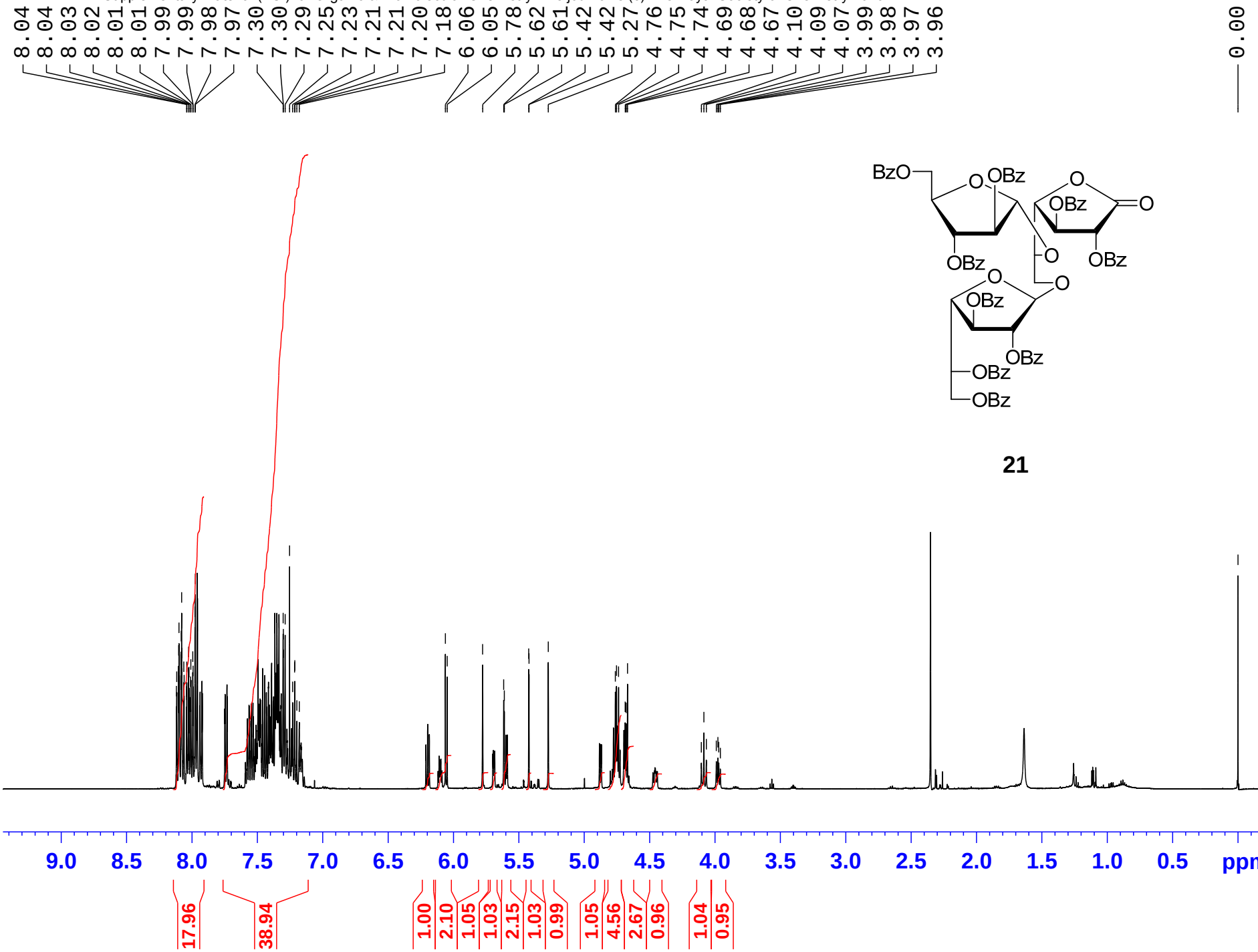
COSY NMR spectrum of compound **1** (D_2O, 500 MHz)



1



HSQC spectrum of compound **1** (D_2O, 125.8 MHz)



^{1}H NMR spectrum of compound **21** ($CDCl_3$, 500 MHz)

168.526
166.051
166.037
165.763
165.741
165.502
165.488
165.394
165.170
137.841
133.774
133.656
133.616
133.377
133.342
133.203
133.037
132.991
128.200
126.950
125.266
107.659
105.161
82.905
81.997
81.659
80.661
79.302
77.599
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75.244
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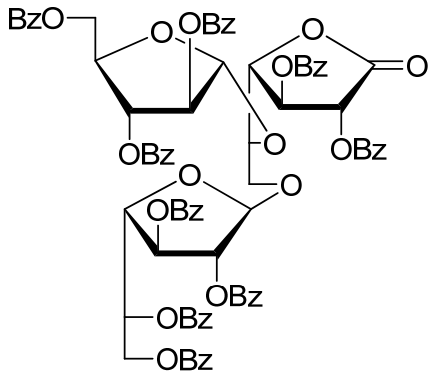
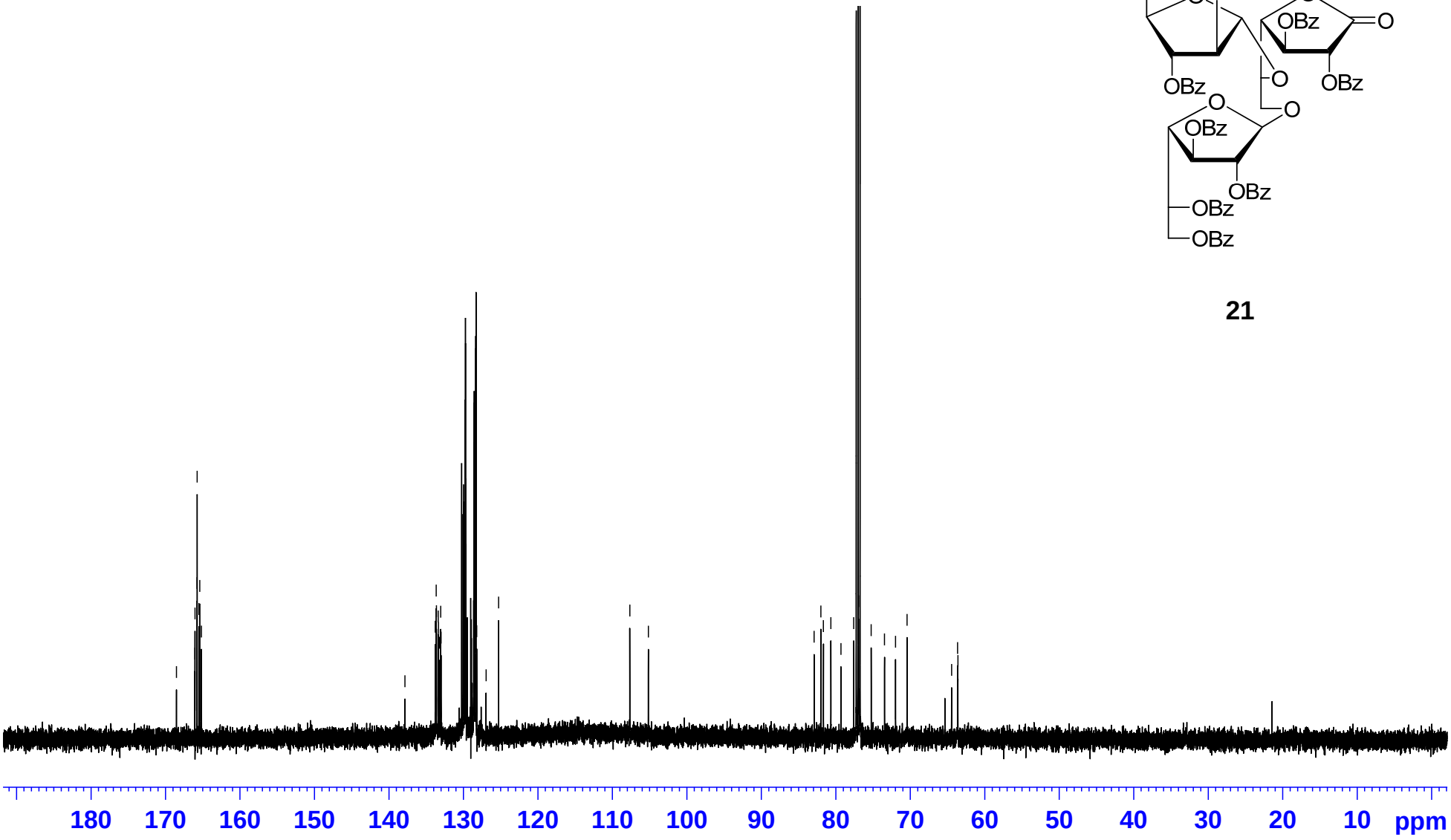
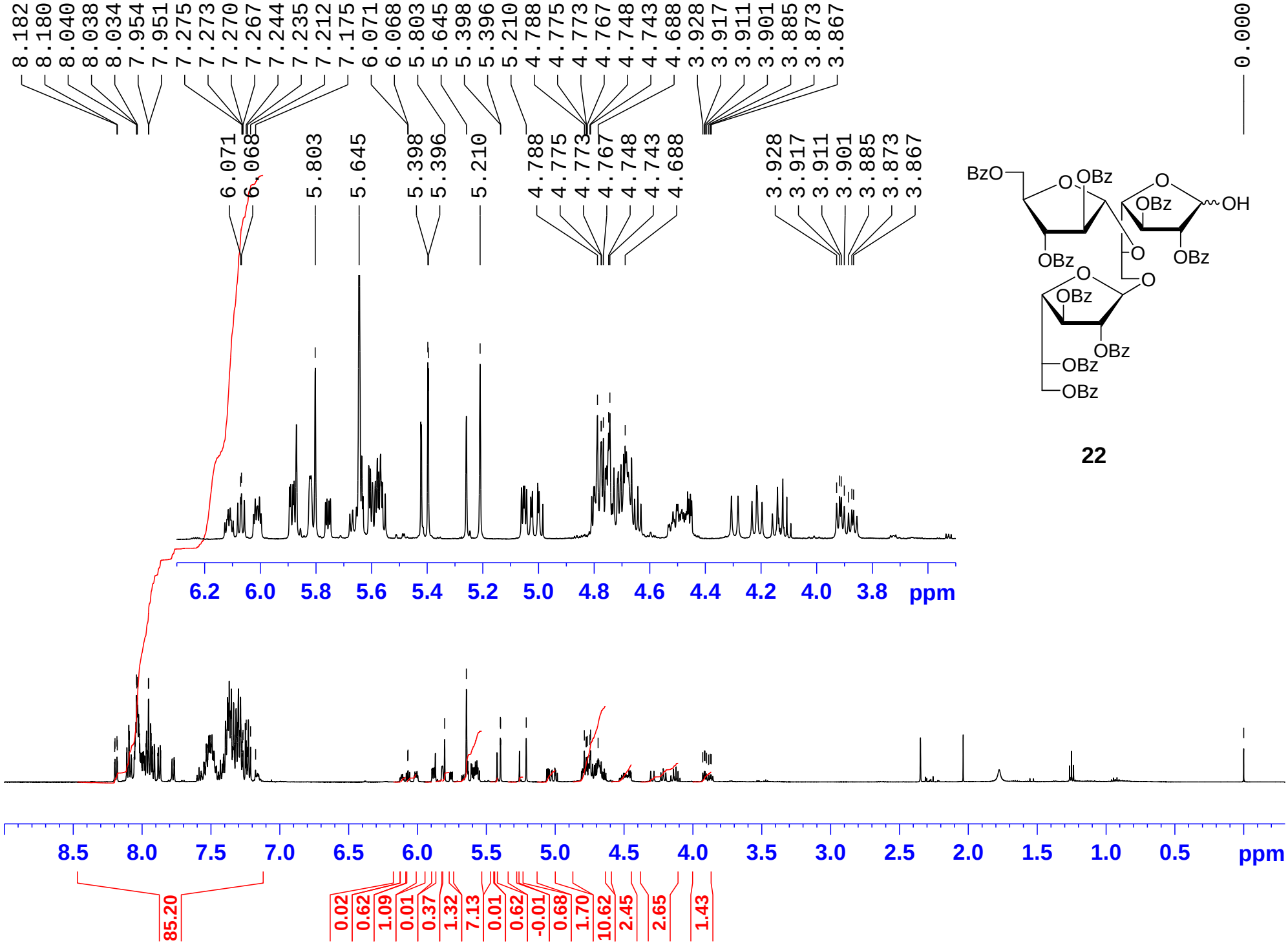
71.976
70.429
64.448
63.652
63.605



21

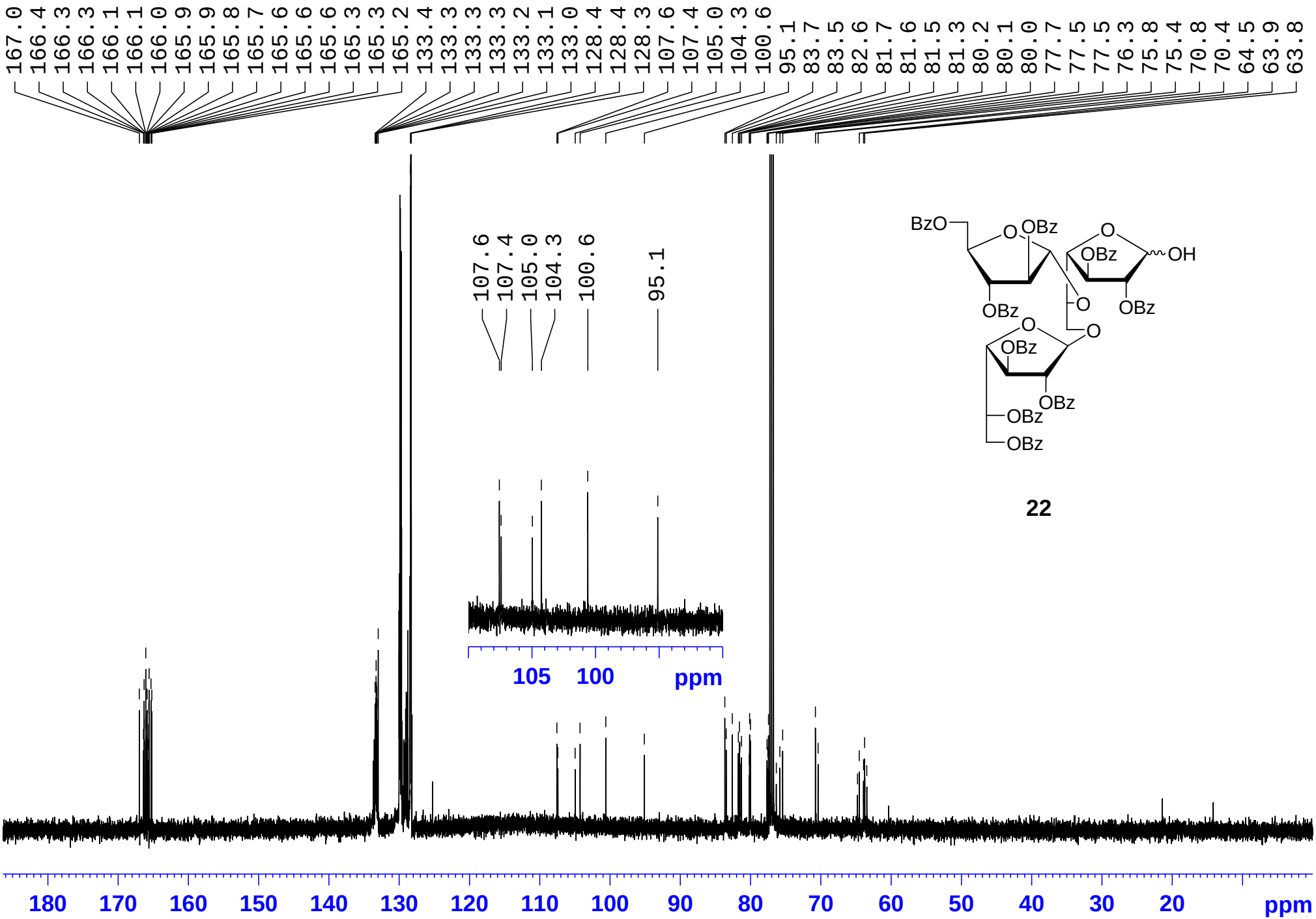


^{13}C NMR spectrum of compound **18** ($CDCl_3$, 125.8 MHz)

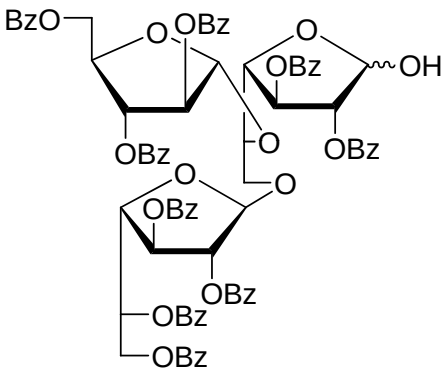


22

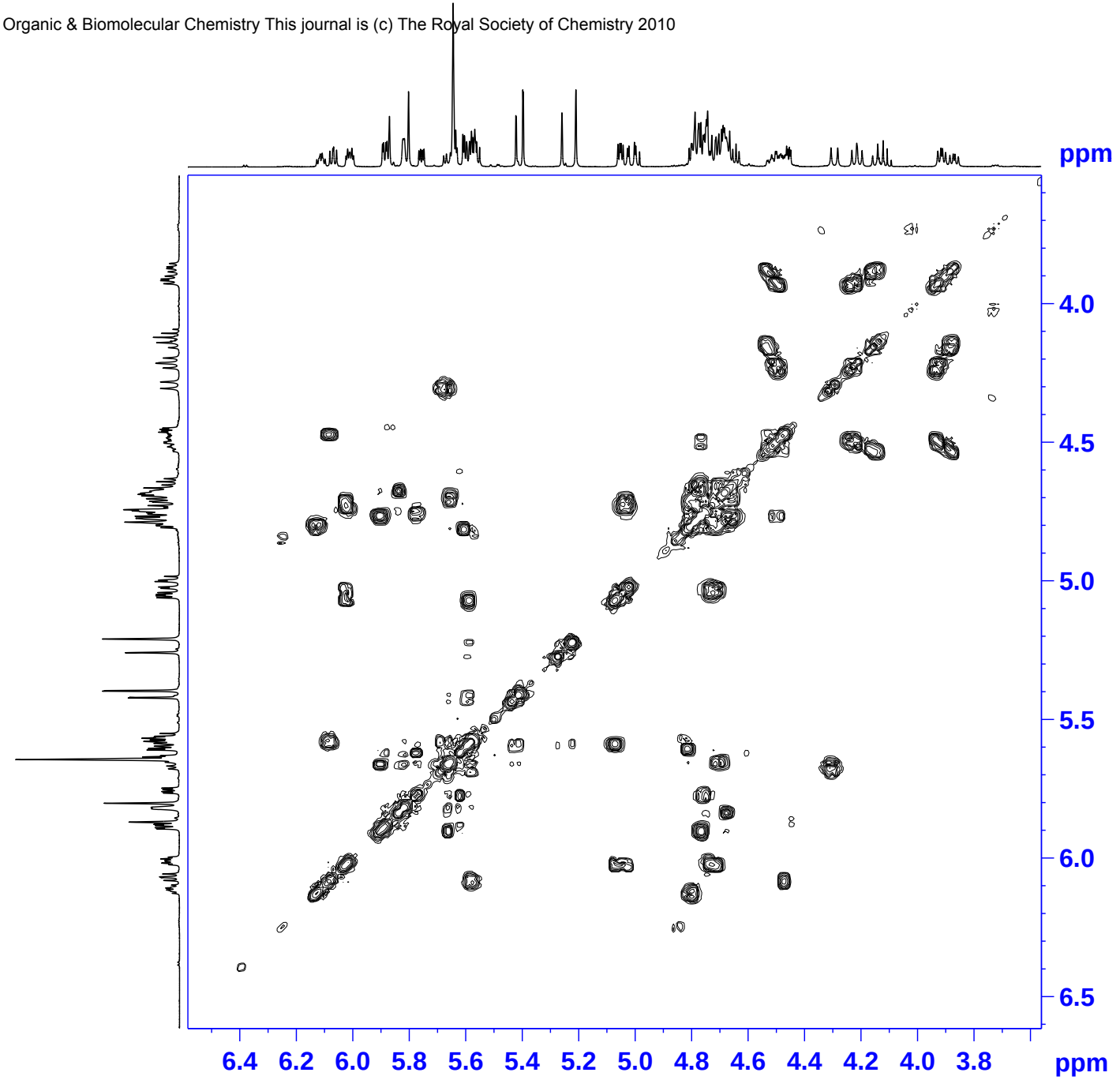
^{1}H NMR spectrum of compound **22** ($CDCl_3$, 500 MHz)



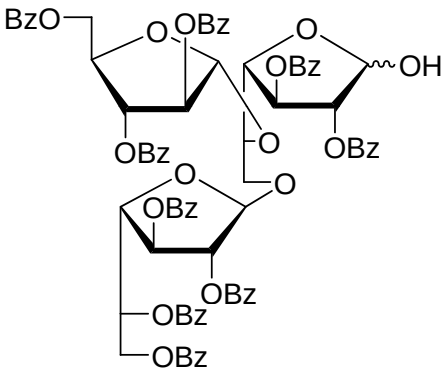
^{13}C NMR spectrum of compound **22** ($CDCl_3$, 125.8 MHz)



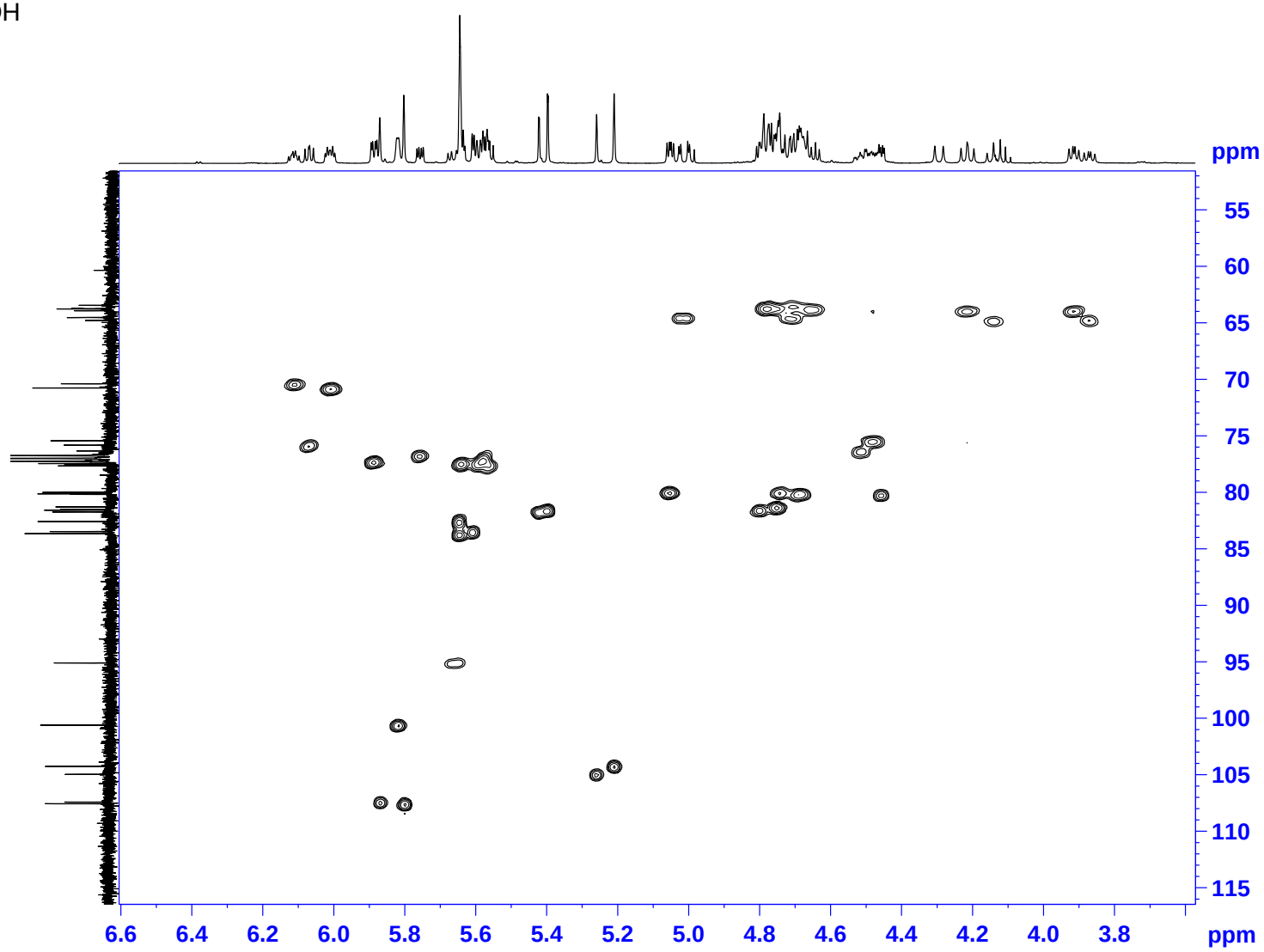
22



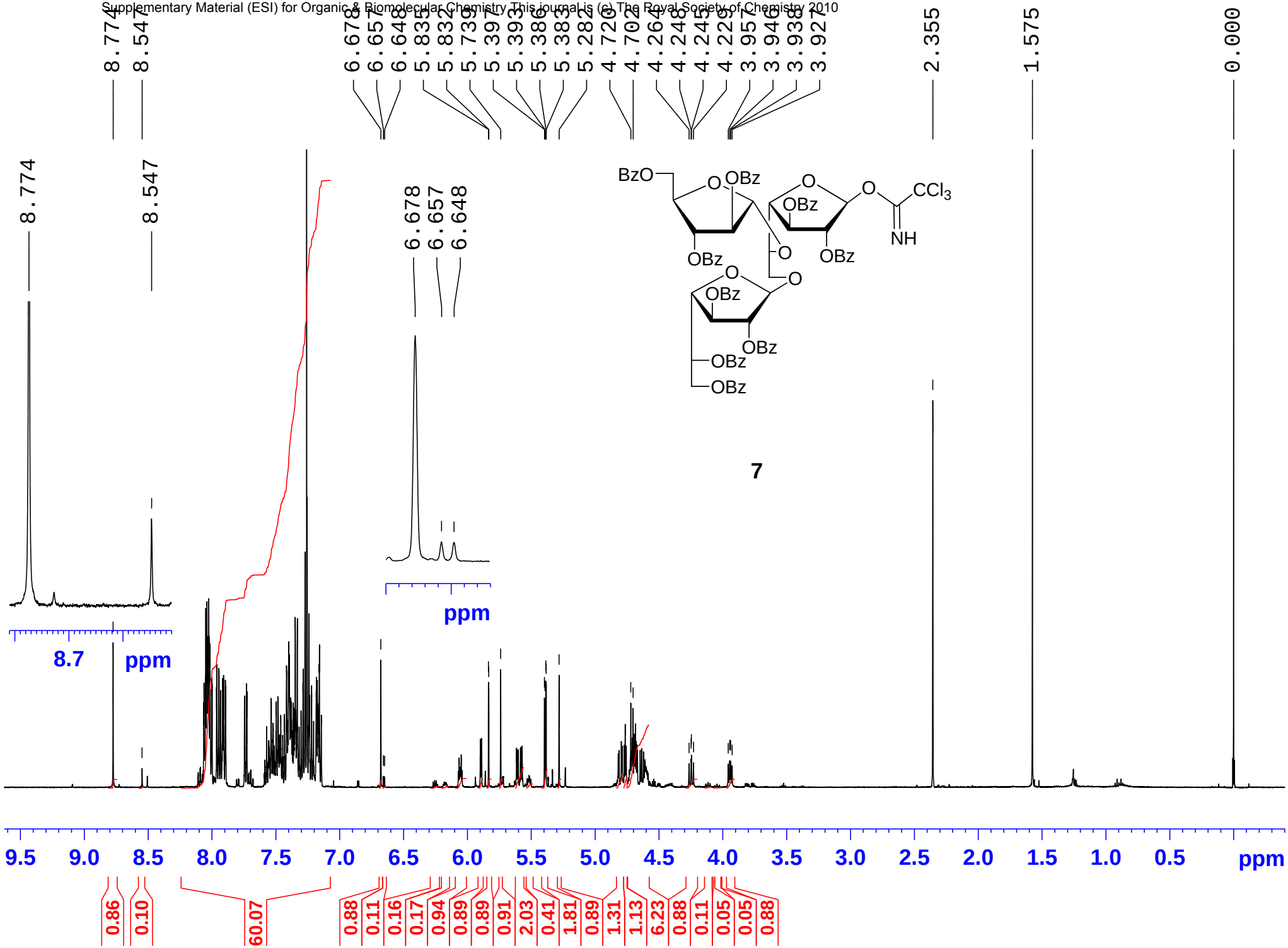
COSY spectrum of compound **22** ($CDCl_3$, 500 MHz)



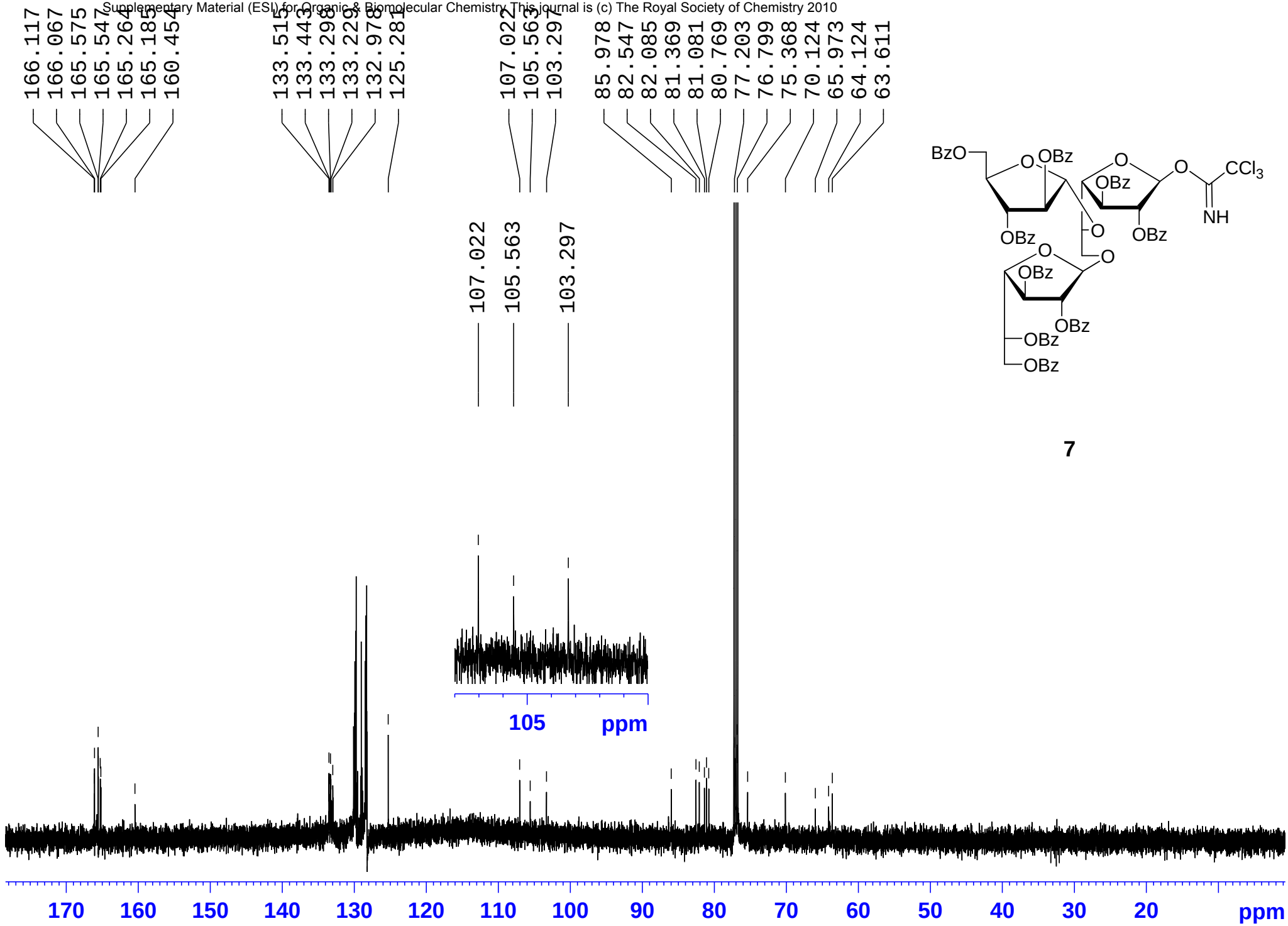
22



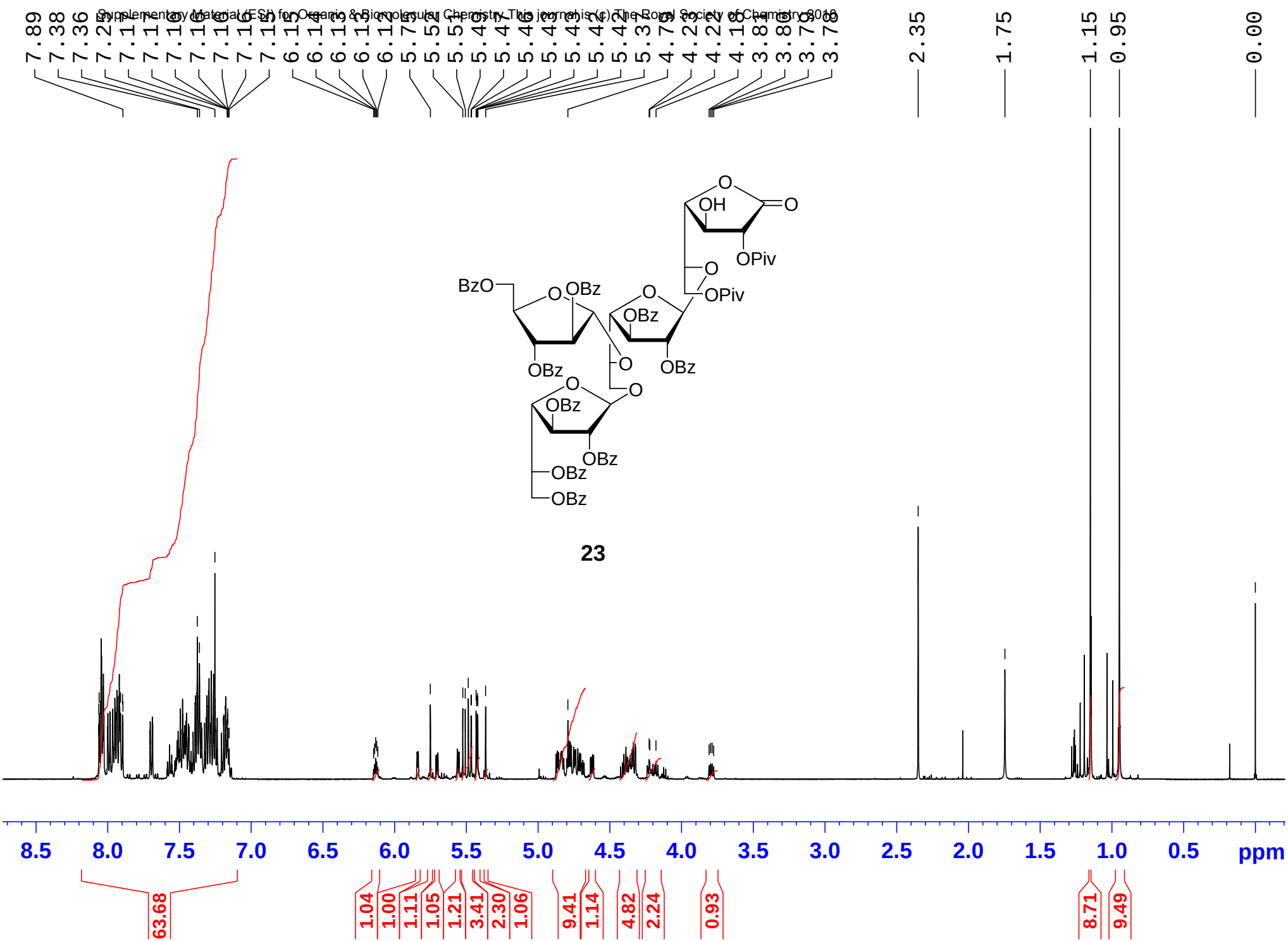
HSQC spectrum of compound **22** ($CDCl_3$, 125.8 MHz)



^{1}H NMR spectrum of compound **7** ($CDCl_3$, 500 MHz)



^{13}C NMR spectrum of compound **7** ($CDCl_3$, 125.8 MHz)



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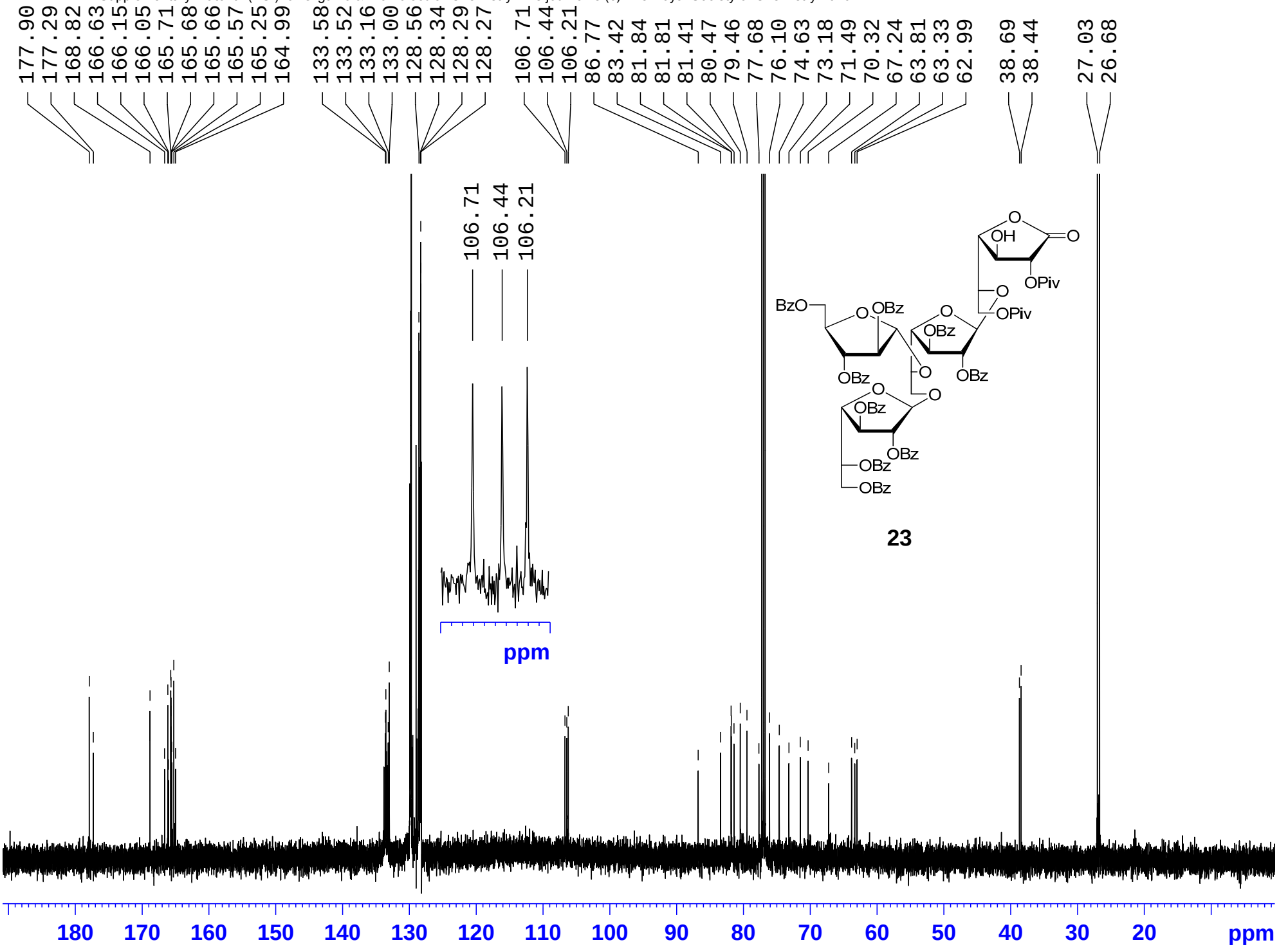
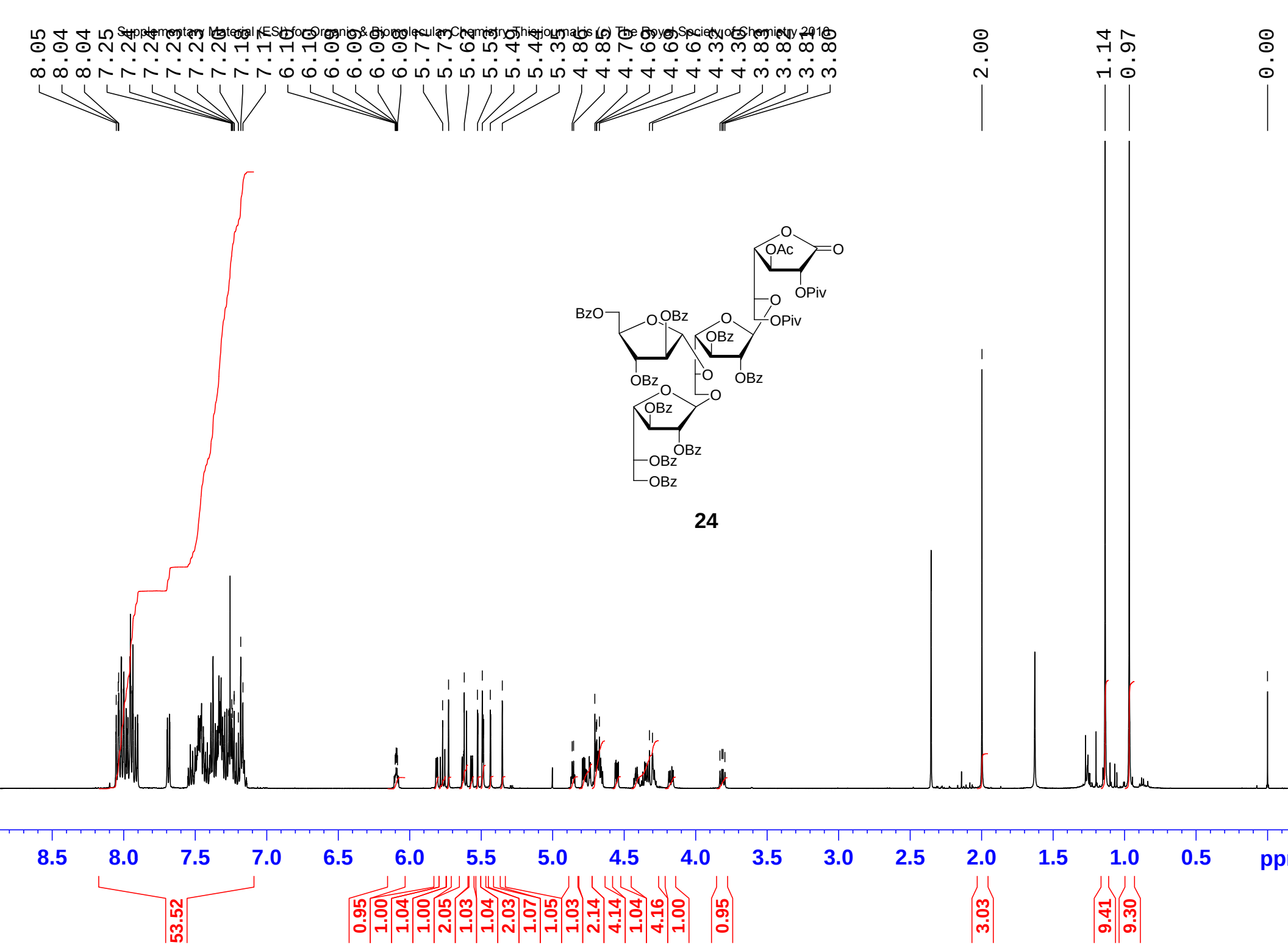
^{1}H NMR spectrum of compound **23** ($CDCl_3$, 500 MHz)



^{13}C NMR spectrum of compound **23** ($CDCl_3$, 125.8 MHz)



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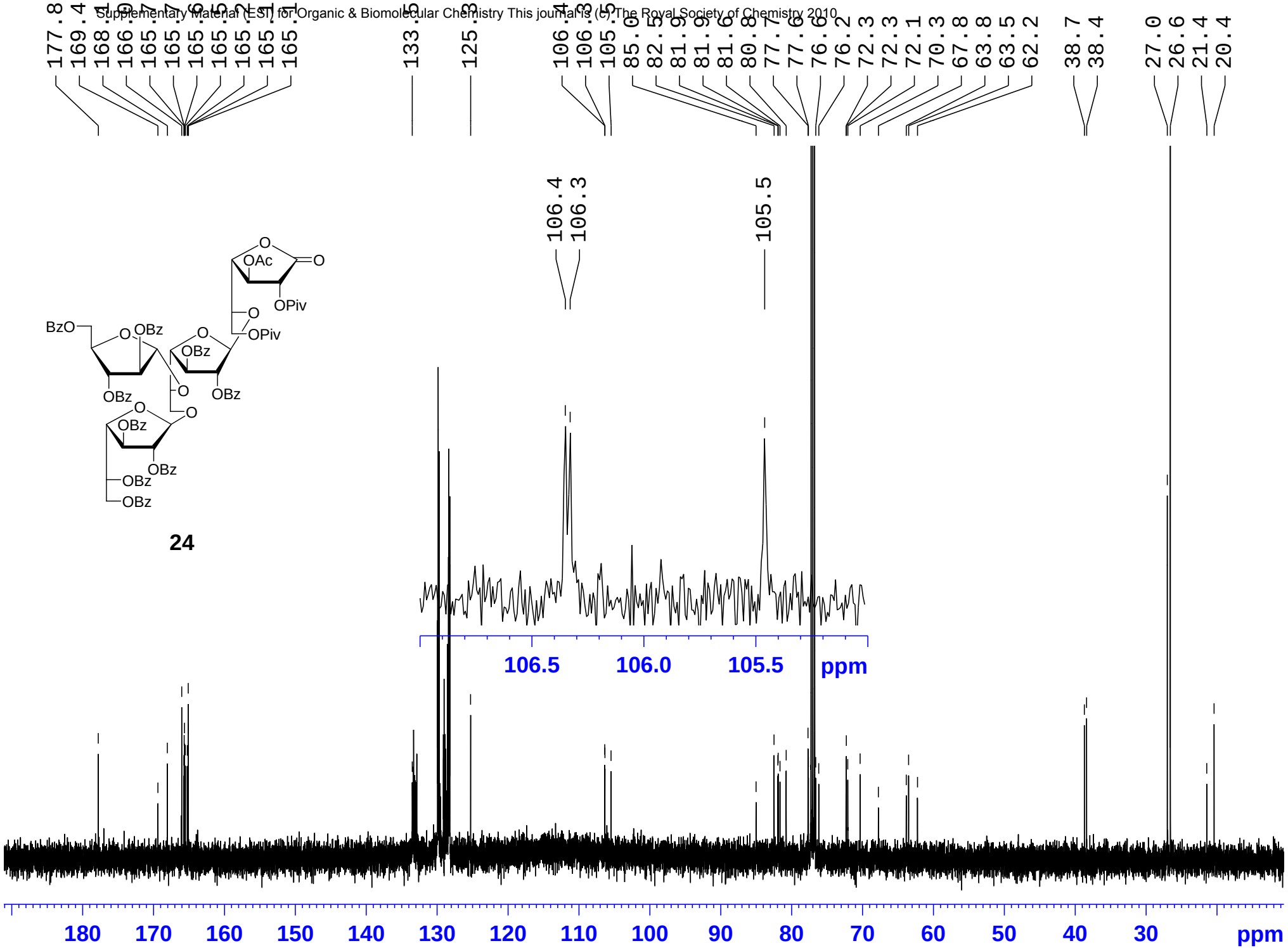
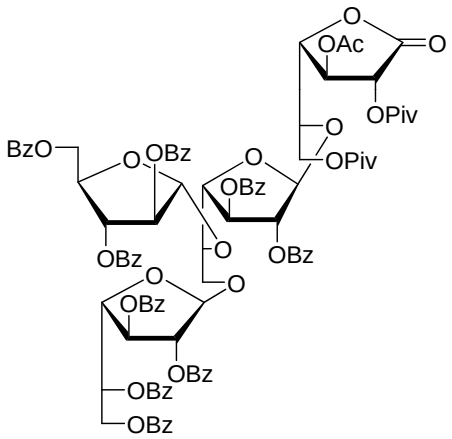
^{1}H NMR spectrum of compound **24** ($CDCl_3$, 500 MHz)



^{13}C NMR spectrum of compound **24** ($CDCl_3$, 125.8 MHz)



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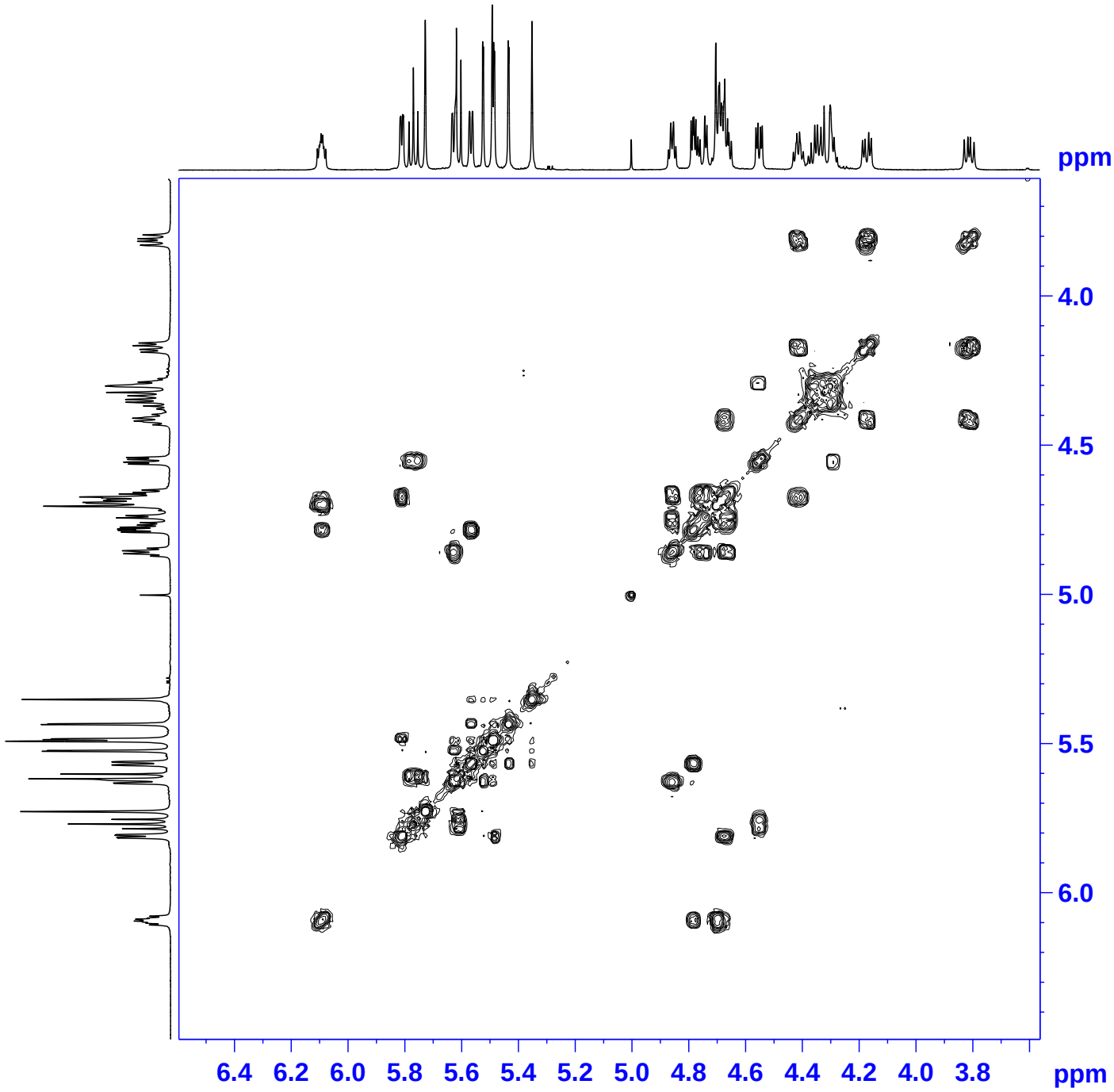
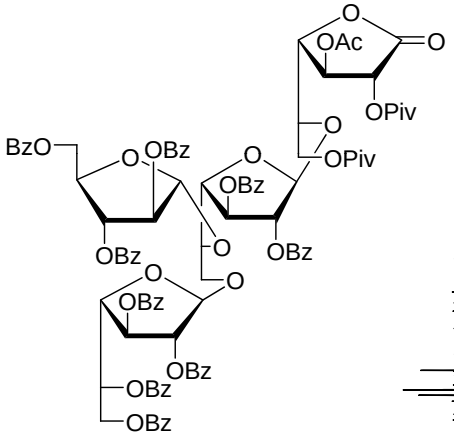
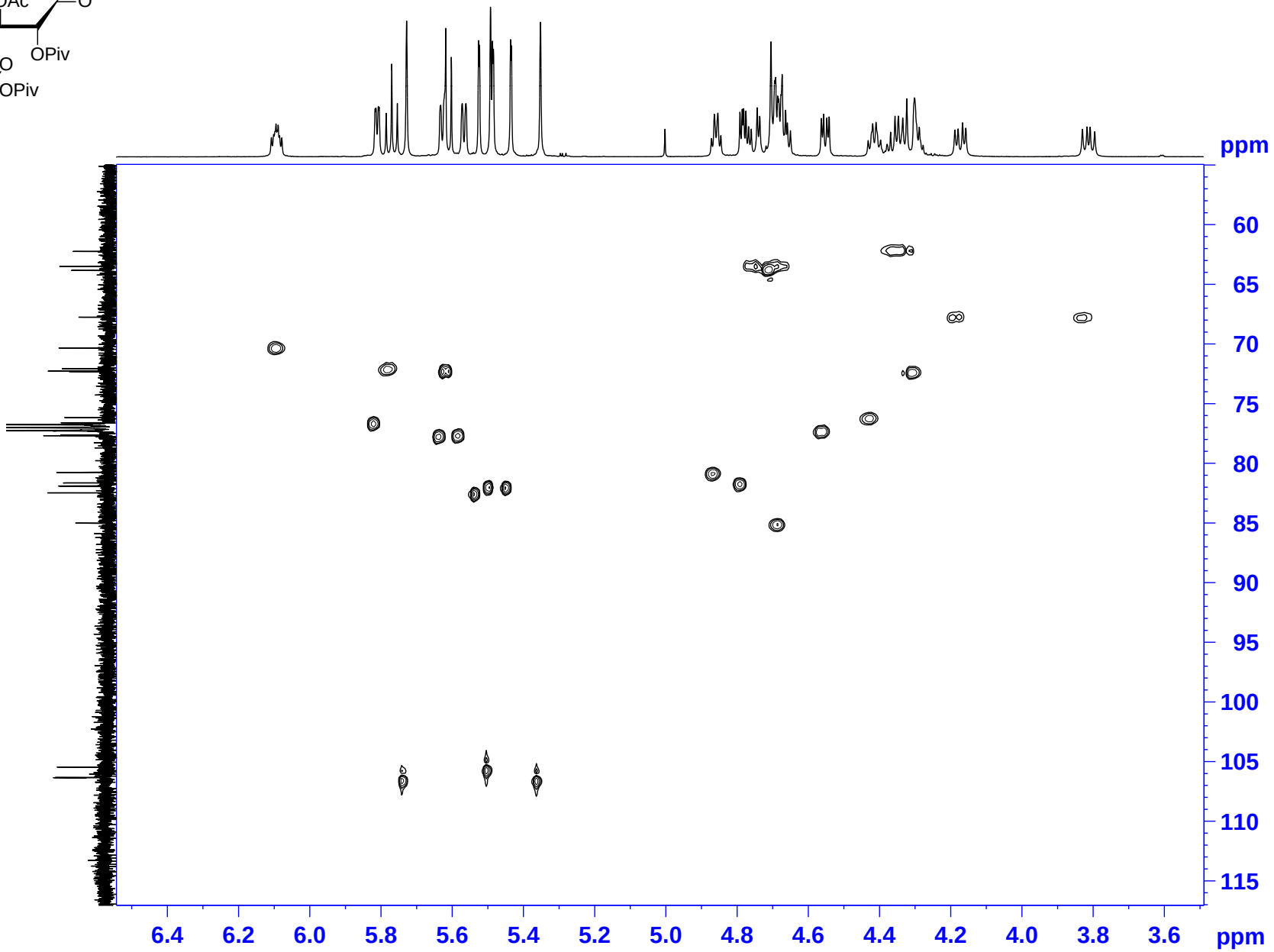


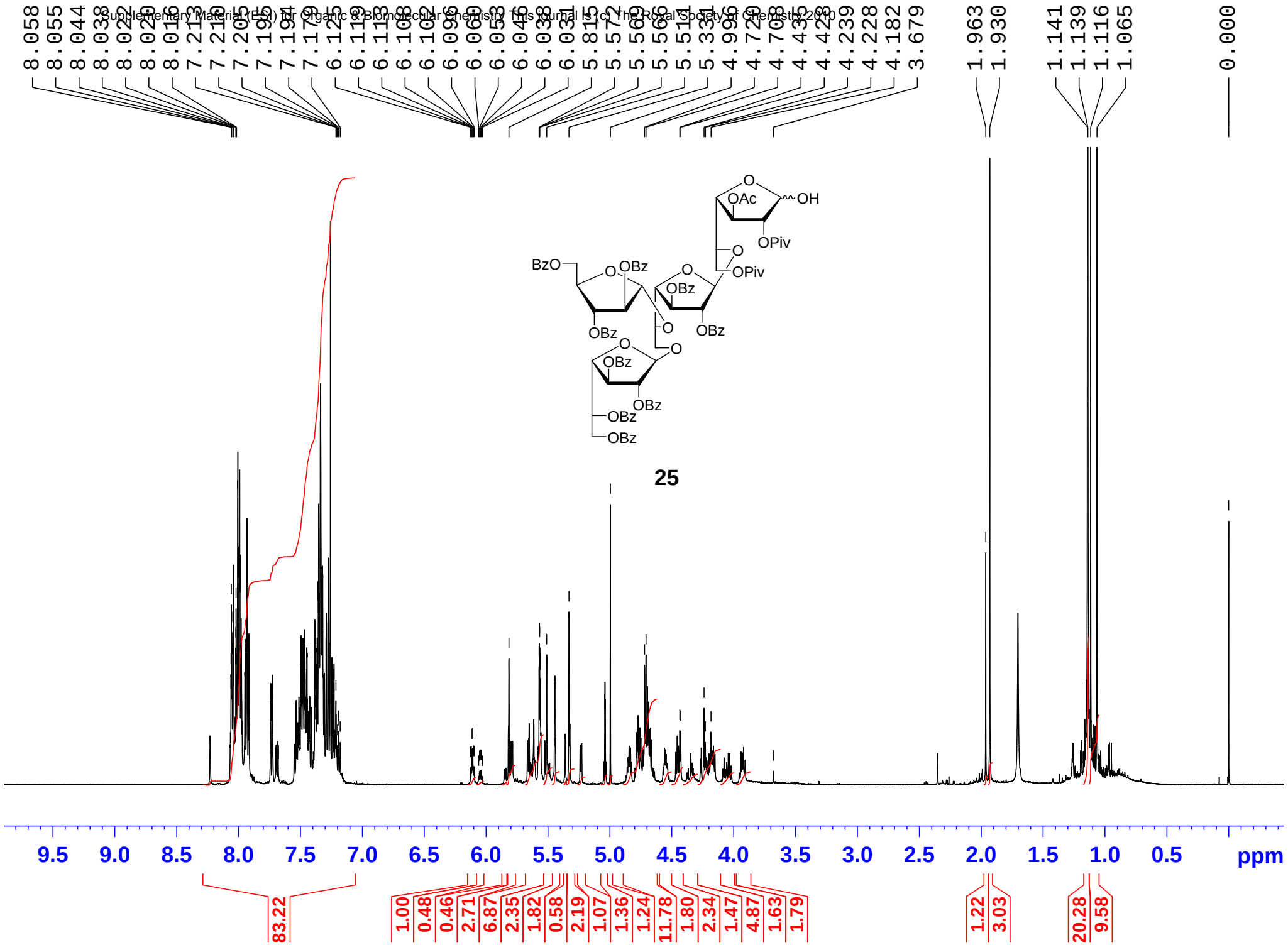
COSY spectrum of compound **24** ($CDCl_3$, 500 MHz)



24

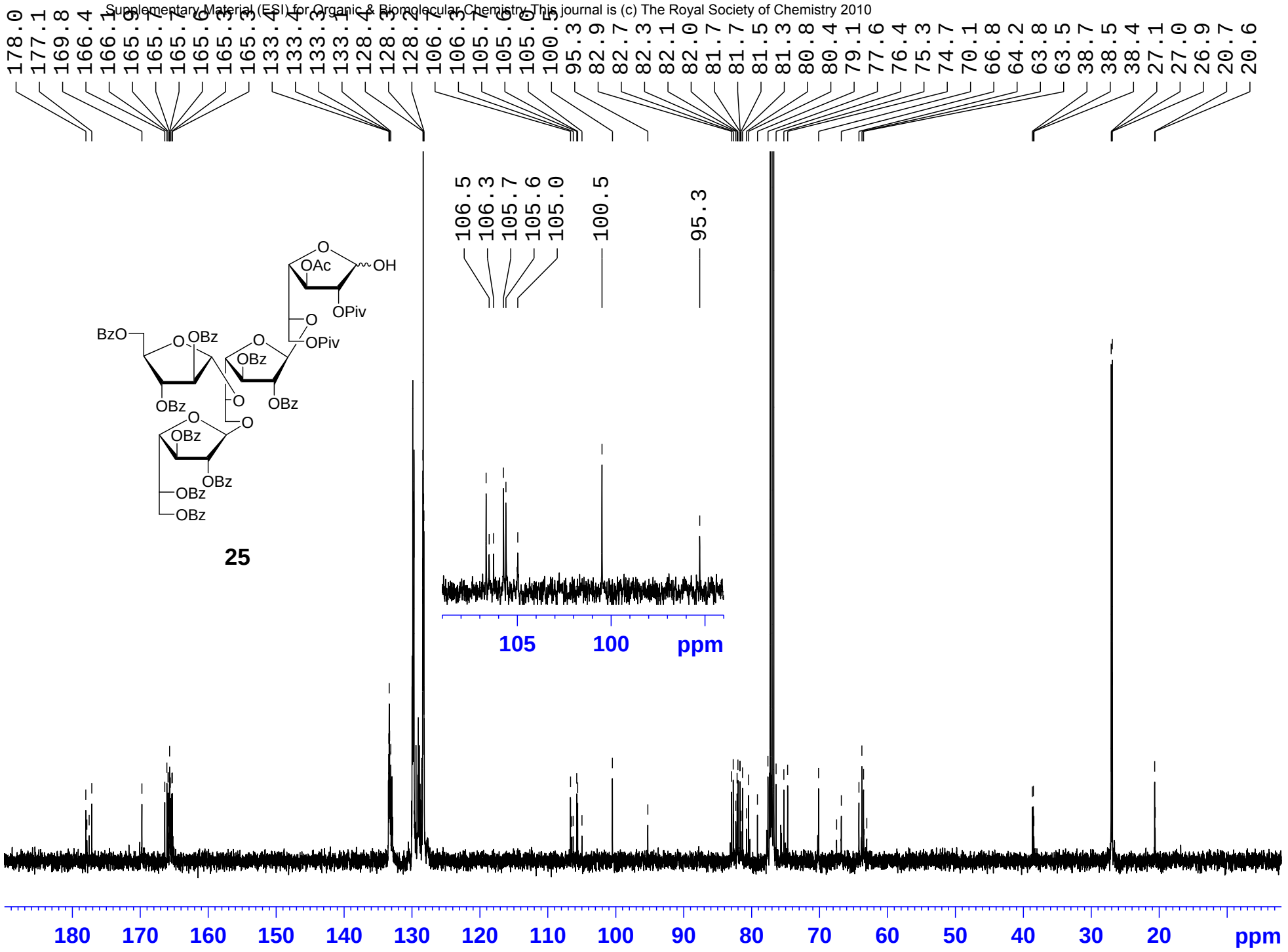


HSQC spectrum of compound **24** ($CDCl_3$, 125.8 MHz)

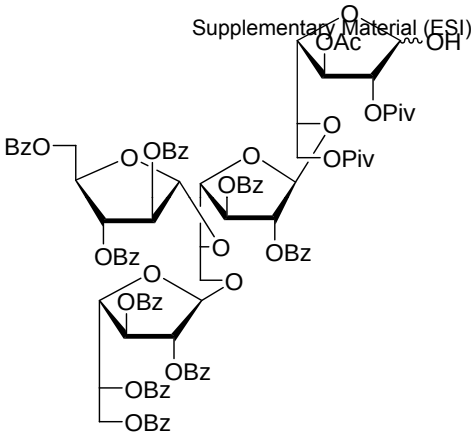


25

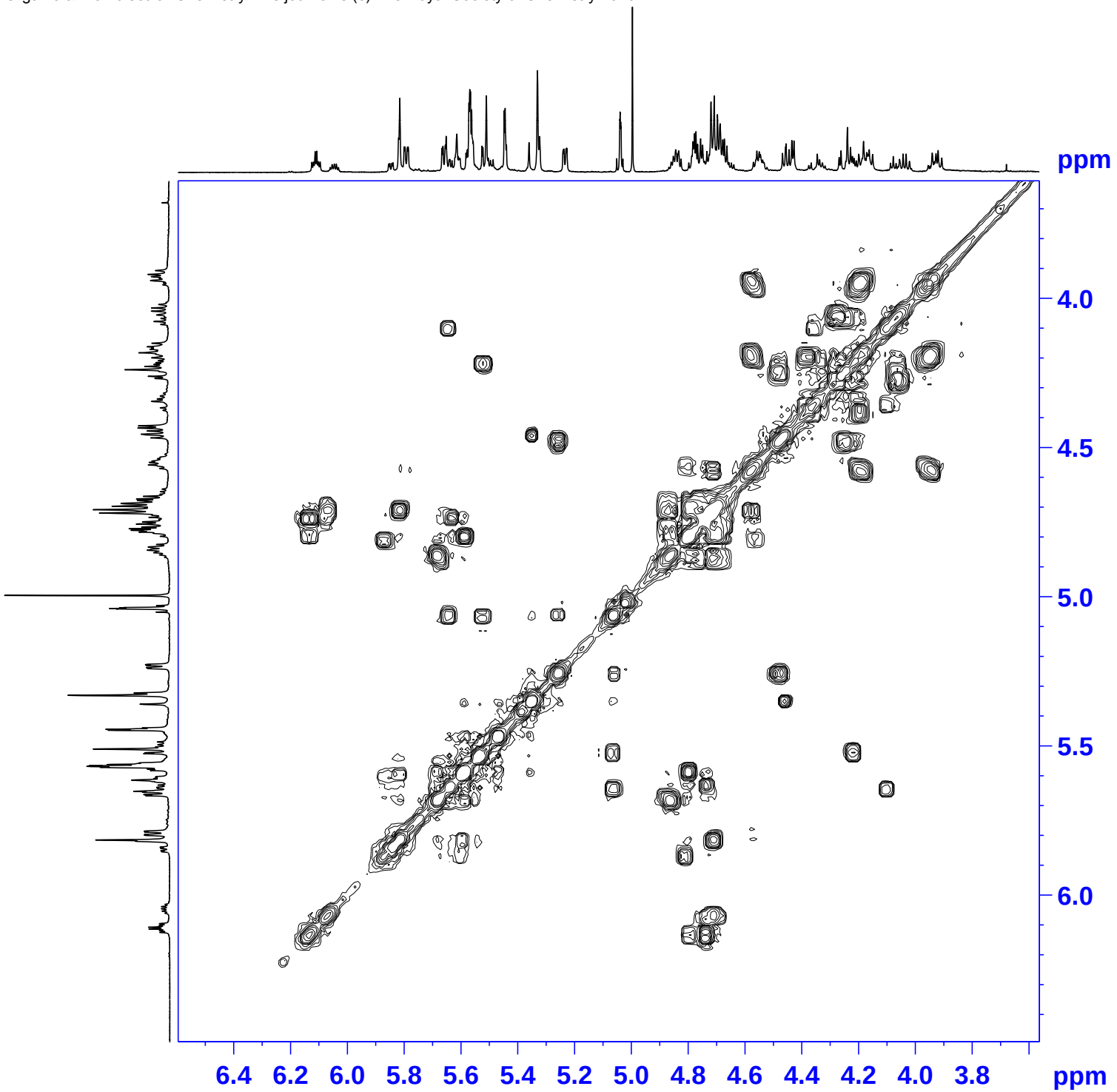
^{1}H NMR spectrum of compound **25** ($CDCl_3$, 500 MHz)



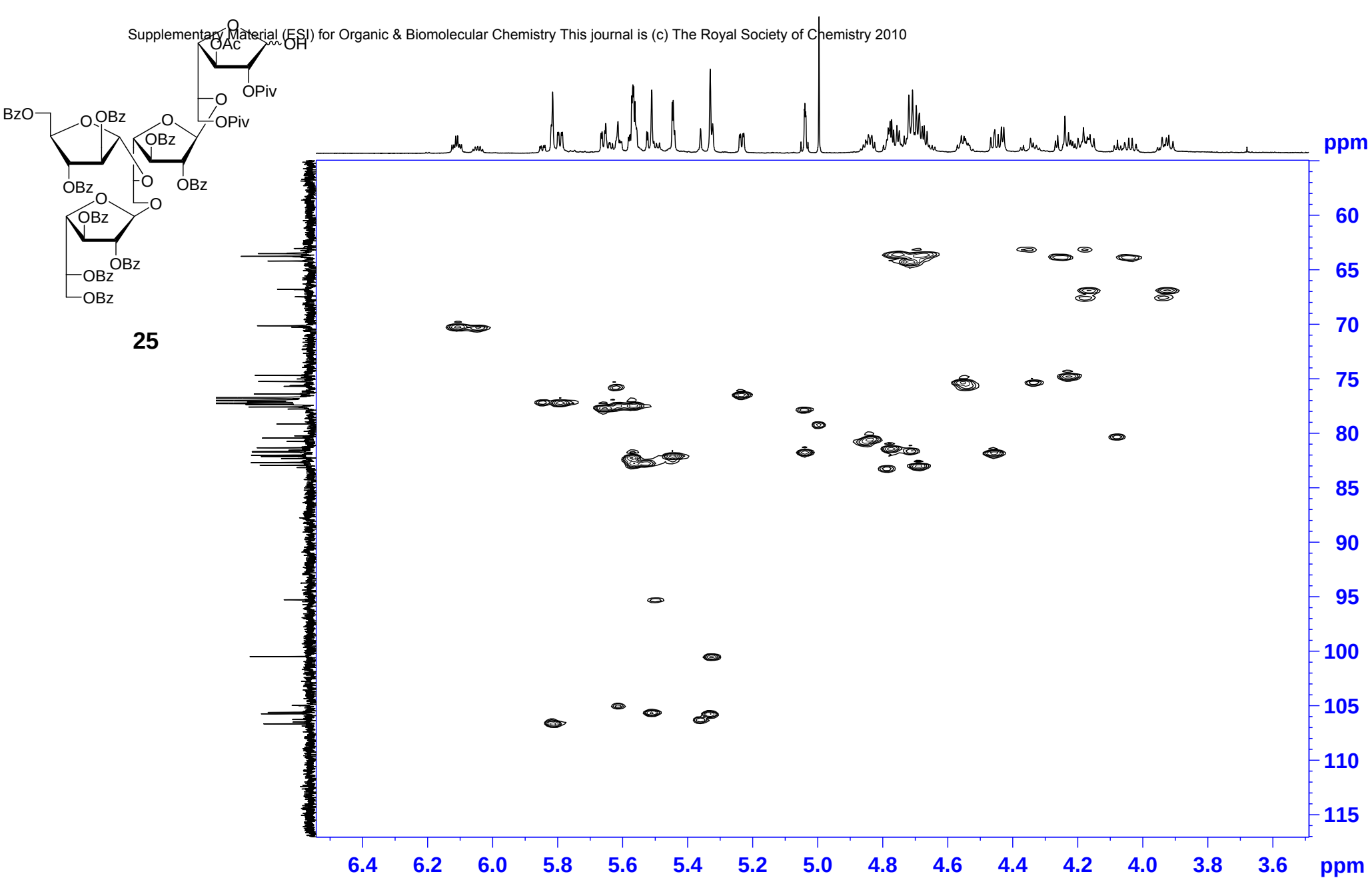
^{13}C NMR spectrum of compound **25** ($CDCl_3$, 125.8 MHz)



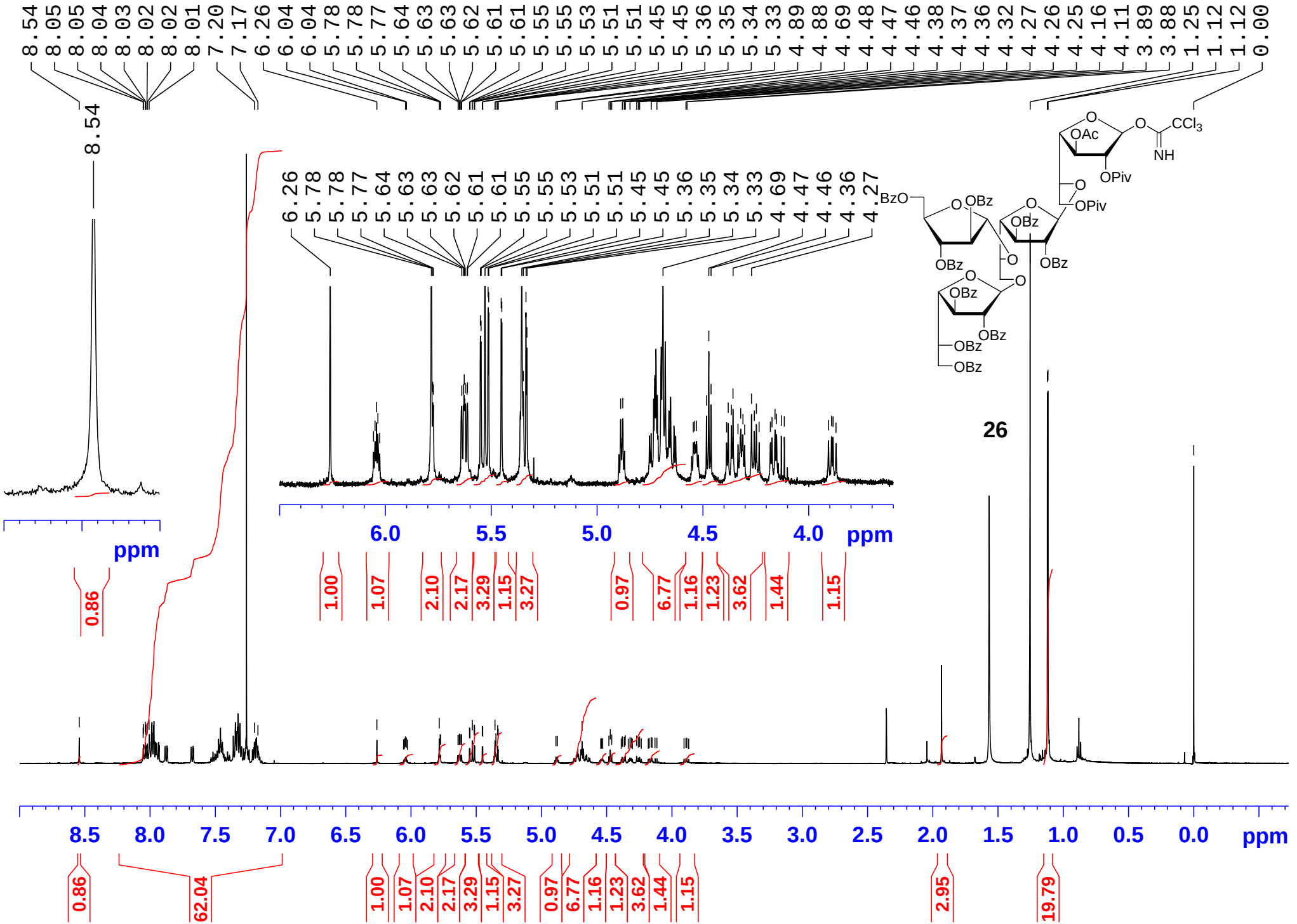
25



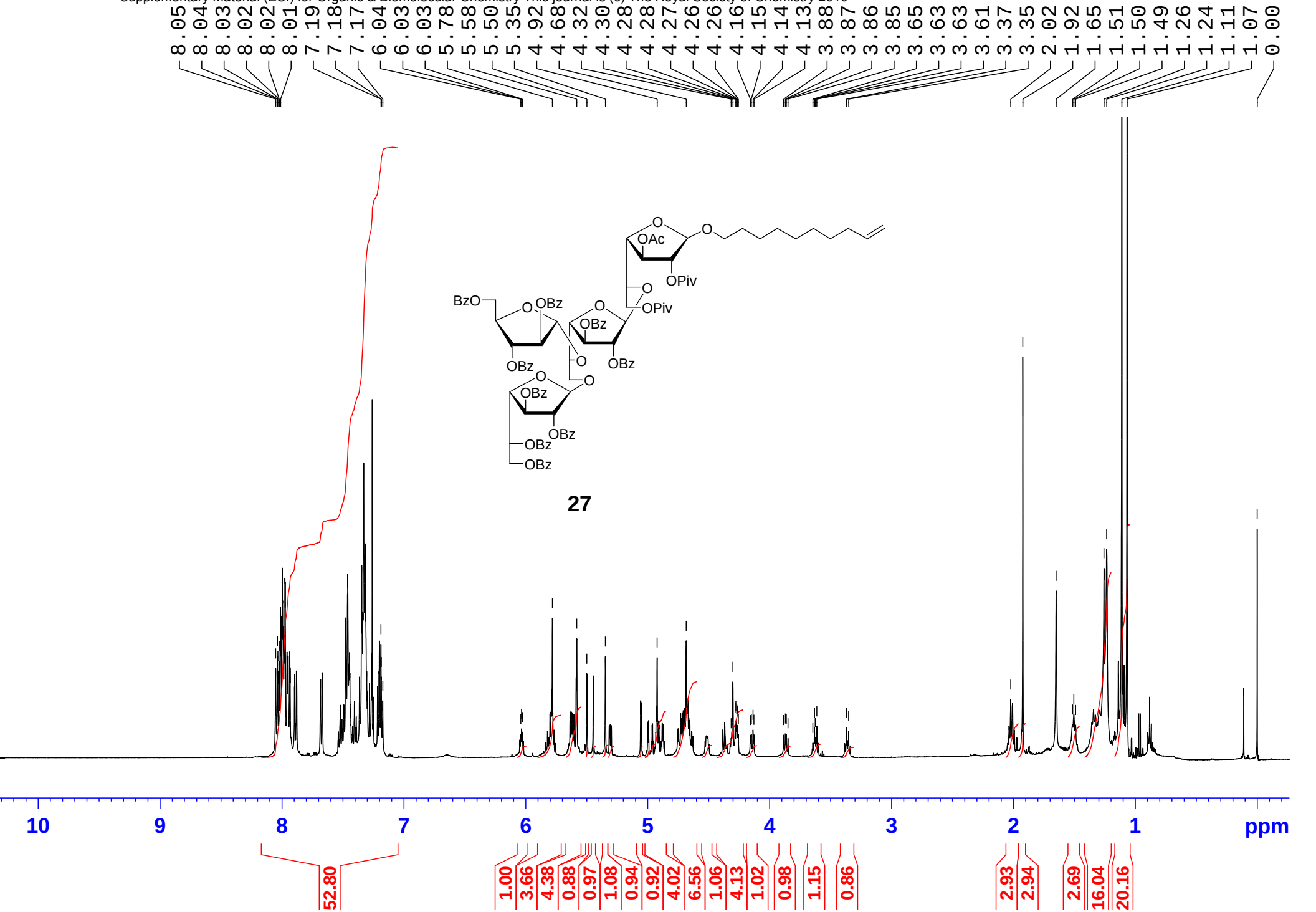
COSY spectrum of compound **25** ($CDCl_3$, 500 MHz)



HSQC spectrum of compound **25** ($CDCl_3$, 125.8 MHz)

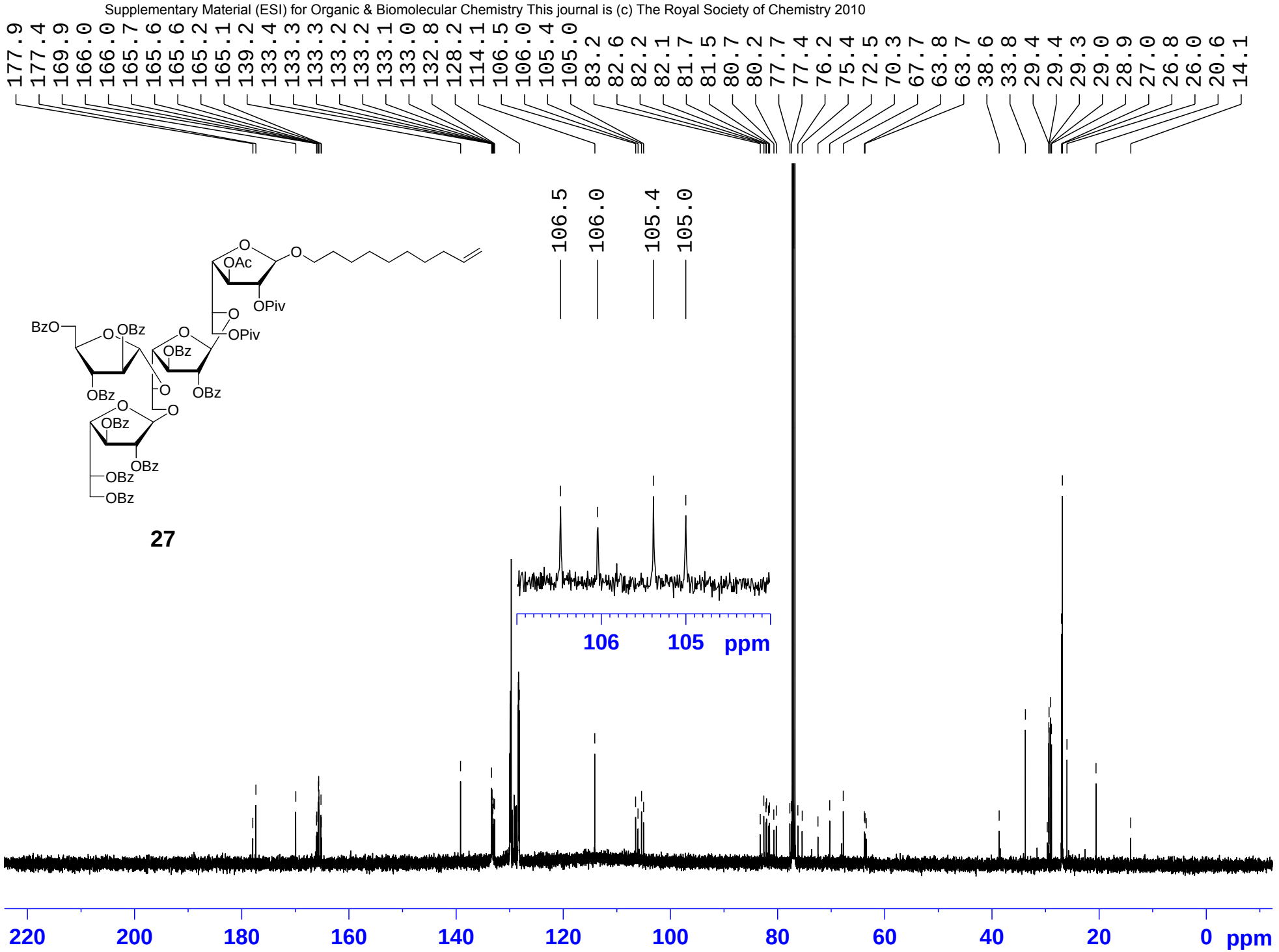


^{1}H NMR spectrum of compound **26** ($CDCl_3$, 500 MHz)



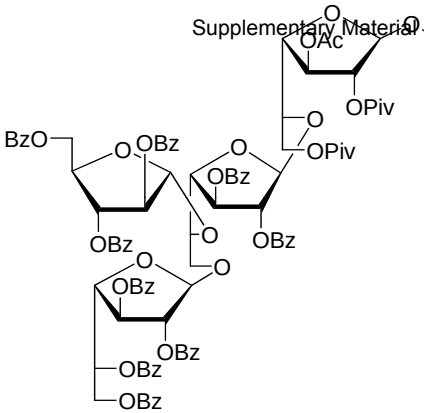
27

^{1}H NMR spectrum of compound **27** ($CDCl_3$, 500 MHz)

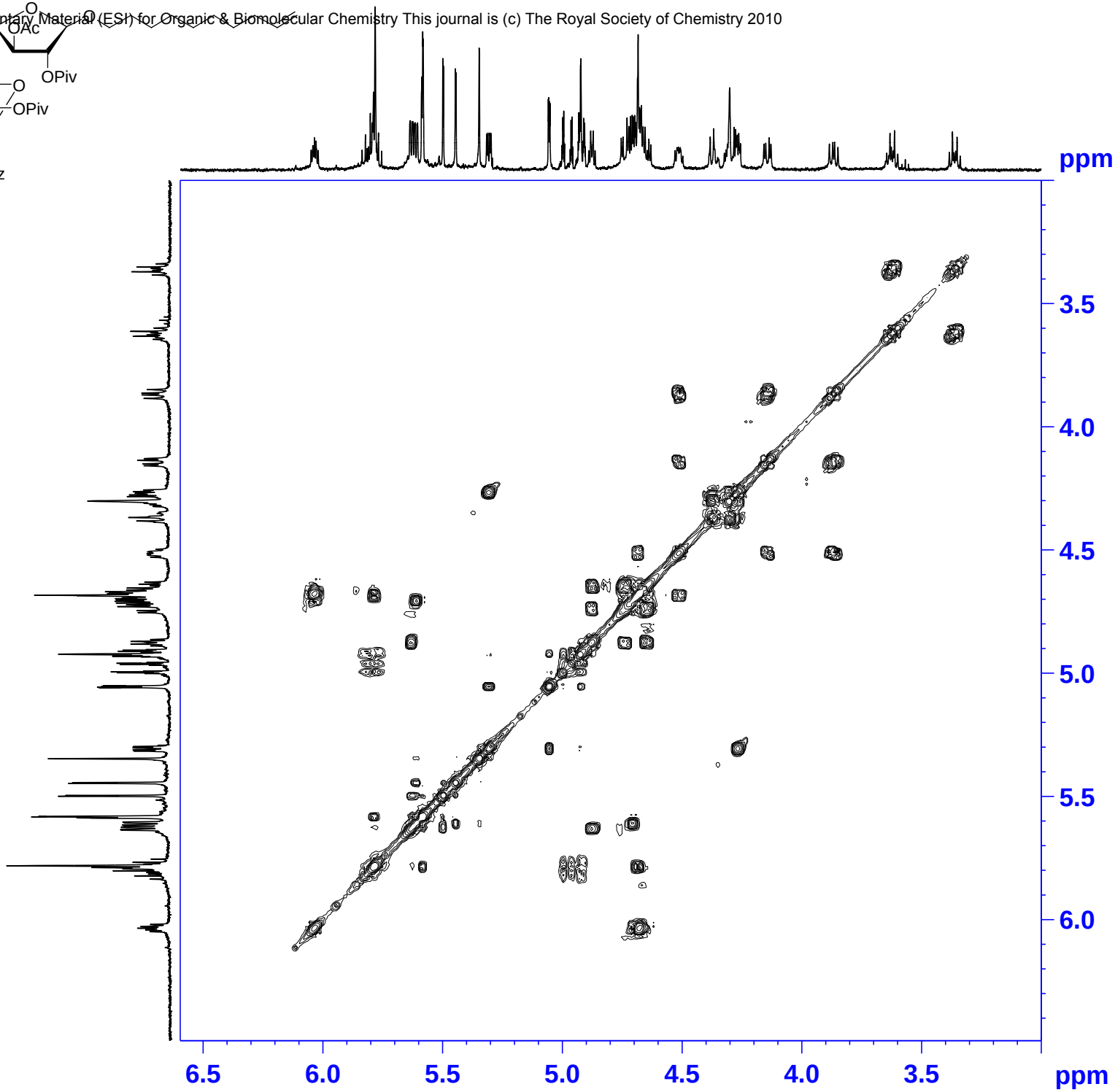


27

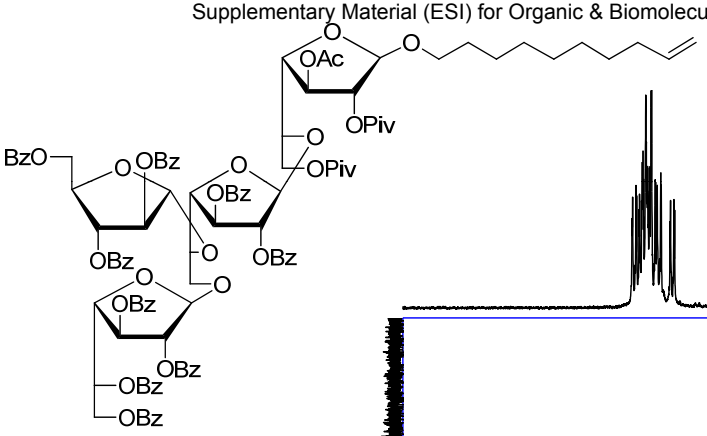
^{13}C NMR spectrum of compound **27** ($CDCl_3$, 125.8 MHz)



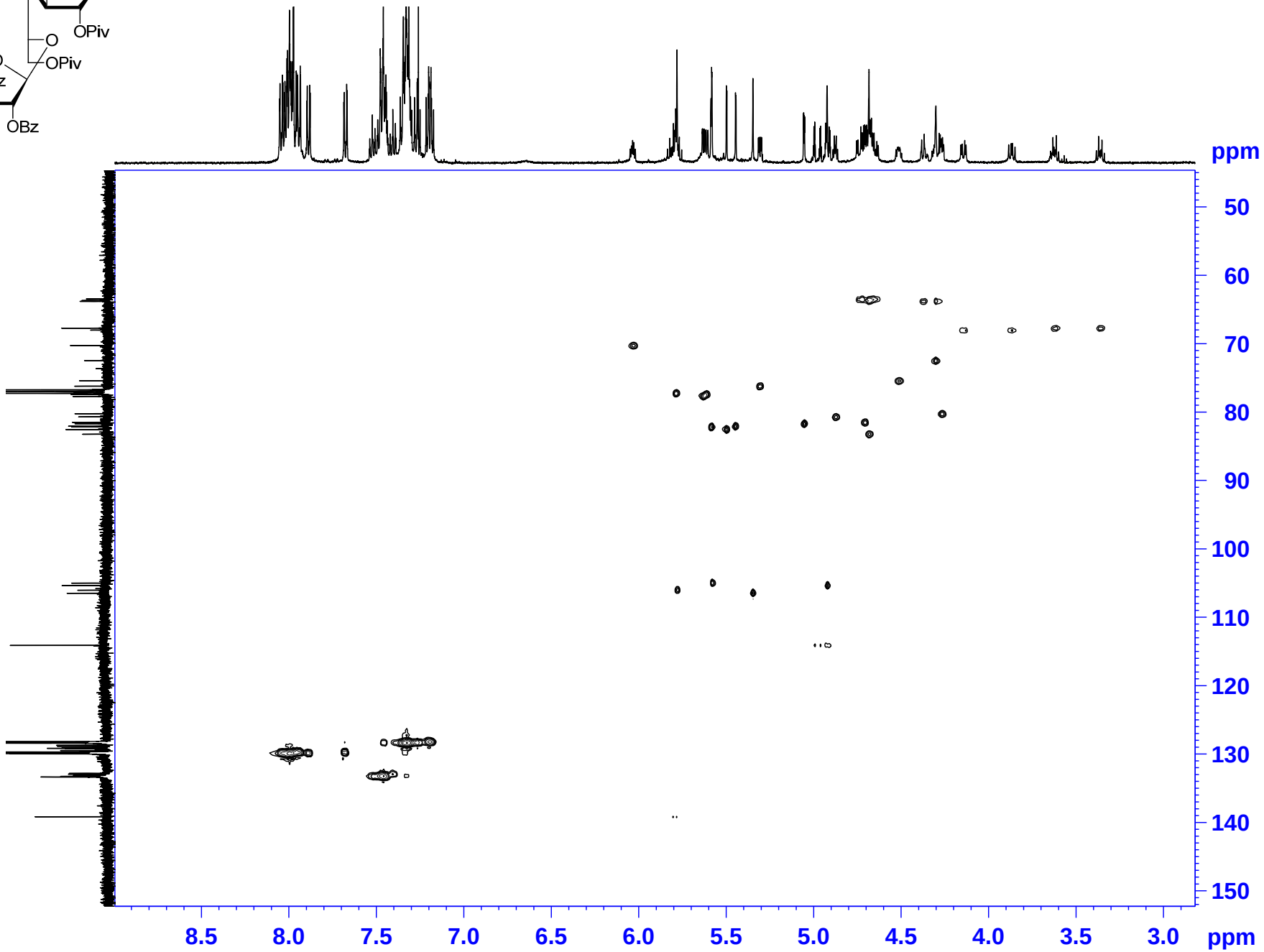
27



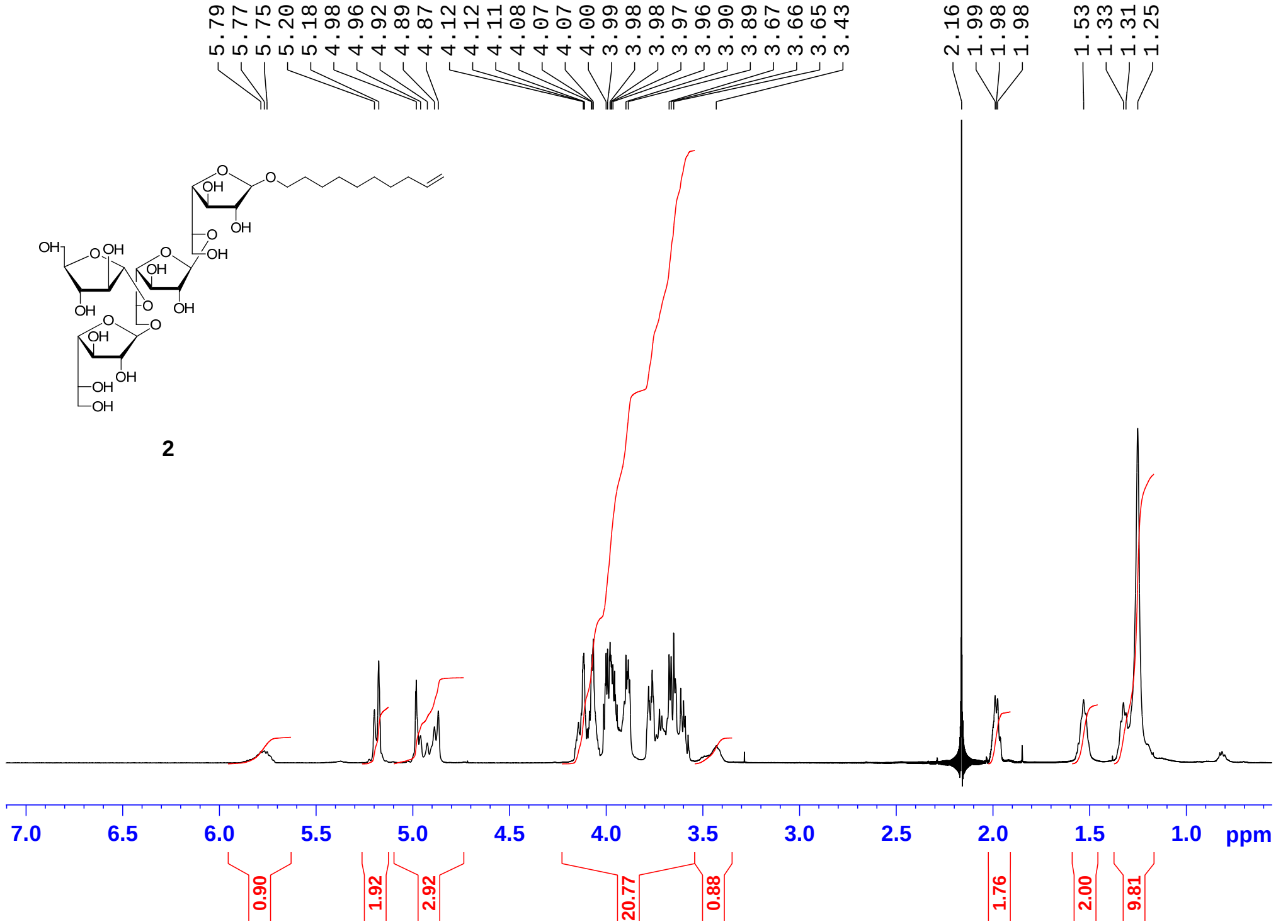
COSY spectrum of compound **27** ($CDCl_3$, 500 MHz)



27

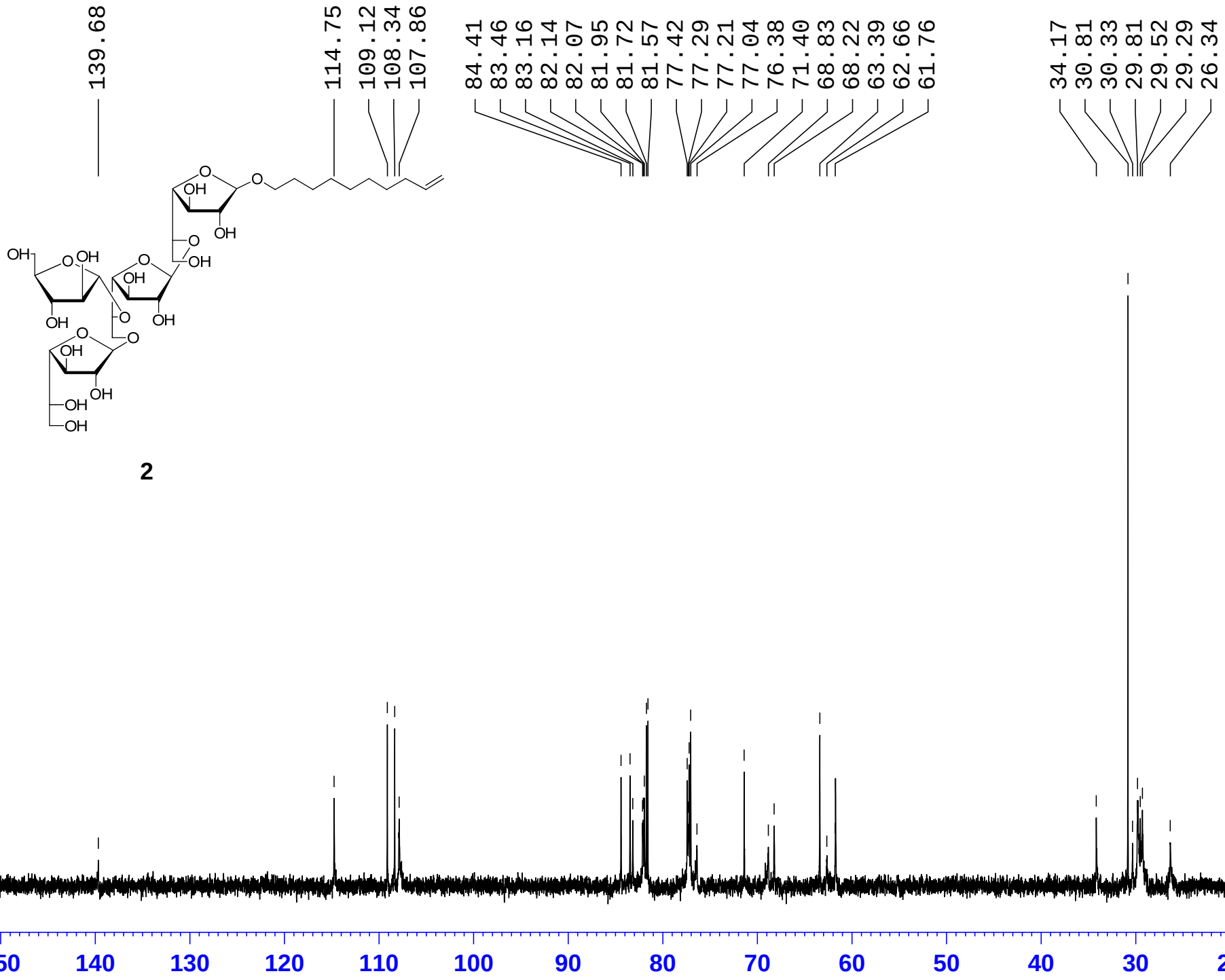


HSQC spectrum of compound **27** ($CDCl_3$, 125.8 MHz)



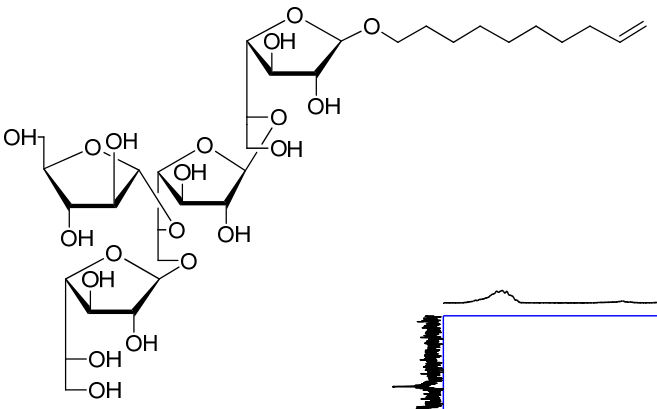
2

^{1}H NMR spectrum of compound **2** (D_2O, 125.8 MHz)

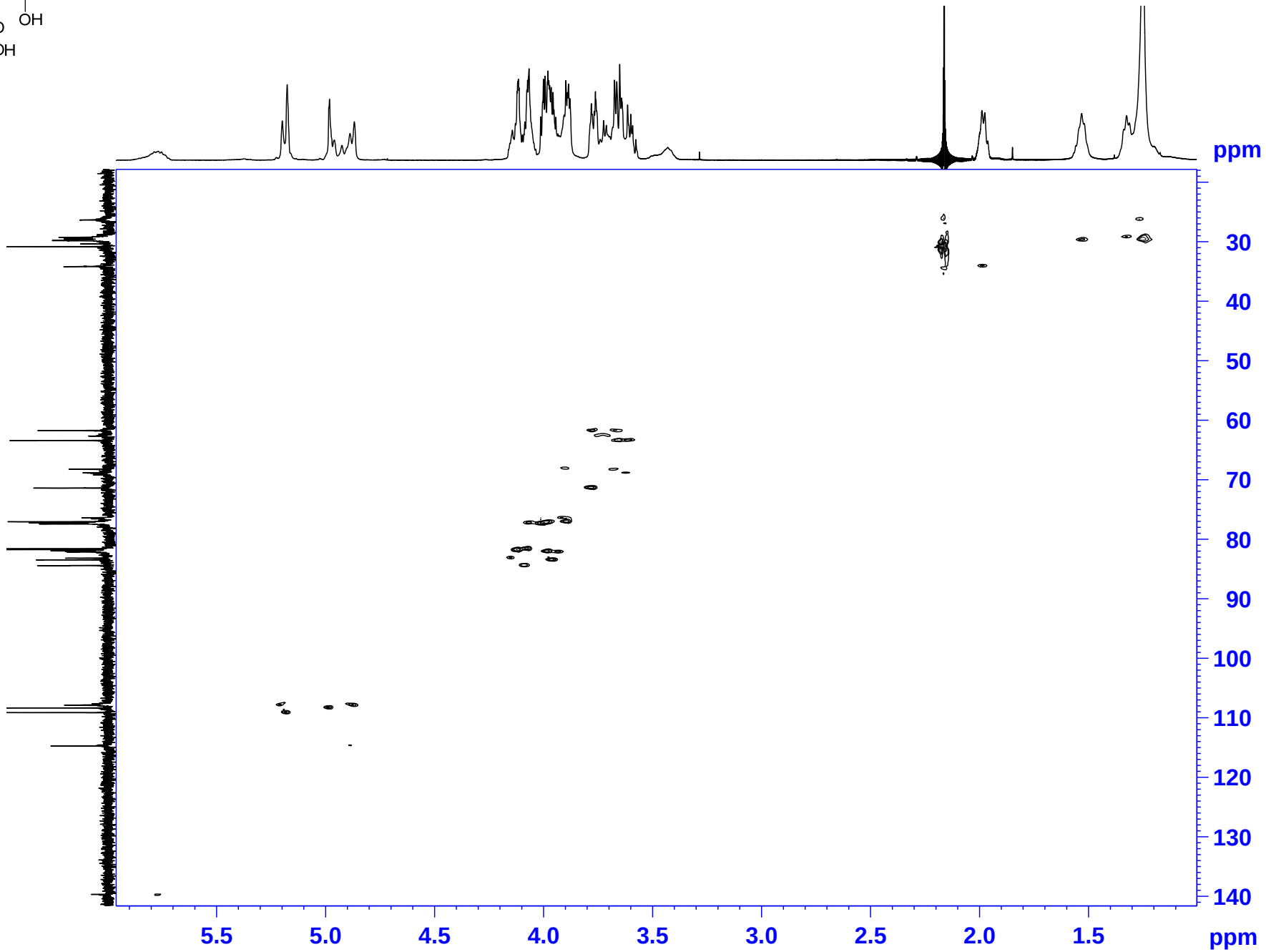


2

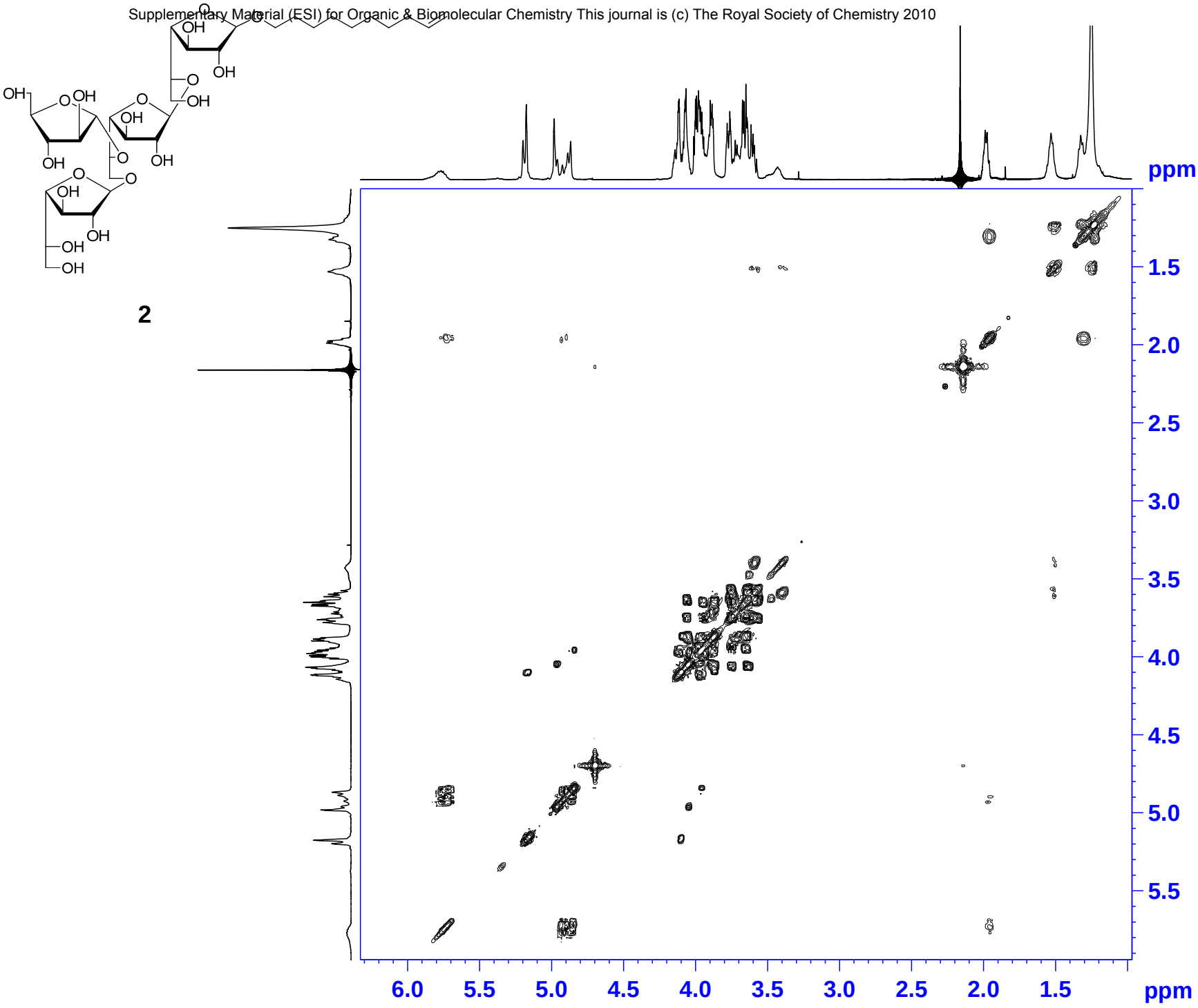
^{13}C NMR spectrum of compound **2** (D_2O, 125.8 MHz)



2



HSQC spectrum of compound **2** (D_2O, 125.8 MHz)



COSY spectrum of compound **2** (D_2O, 500 MHz)