Electronic Supplementary Information for

Total Syntheses and Structural Validation of Lincitol A, Lincitol B, Uvacalol I, Uvacalol J, and Uvacalol K

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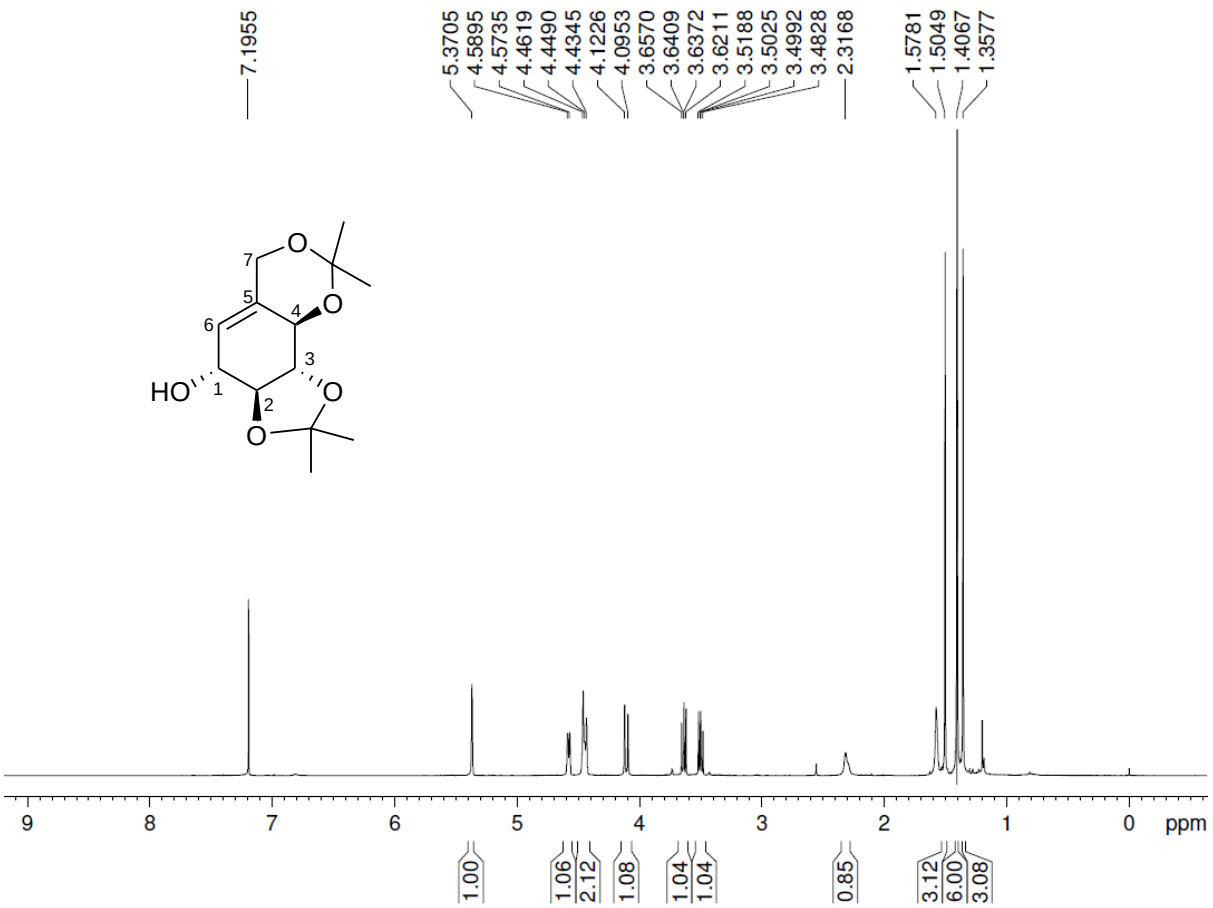
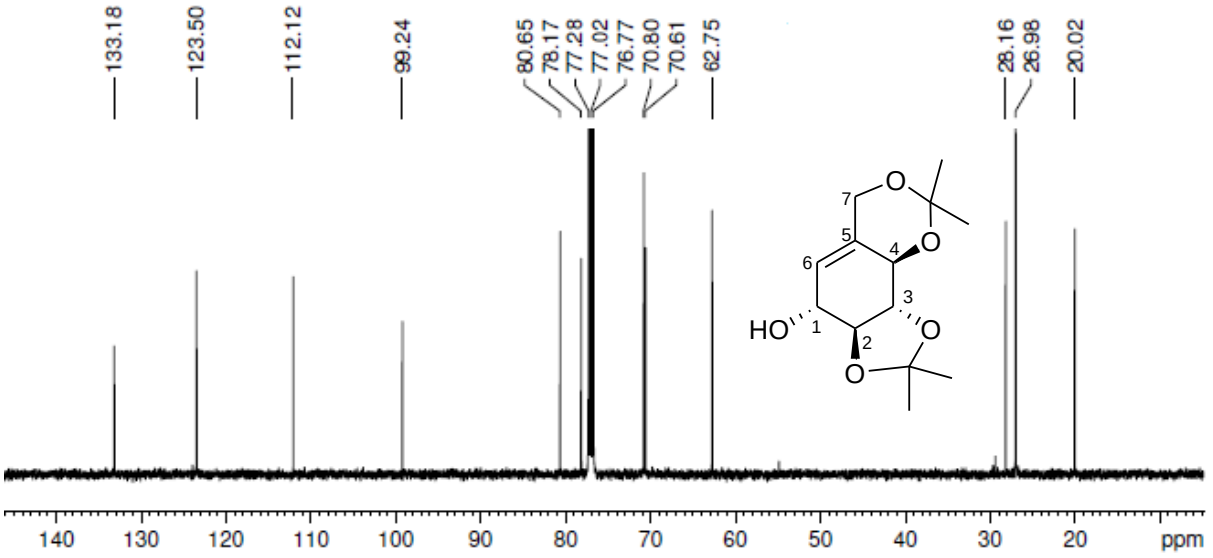
kms@iisertvm.ac.in

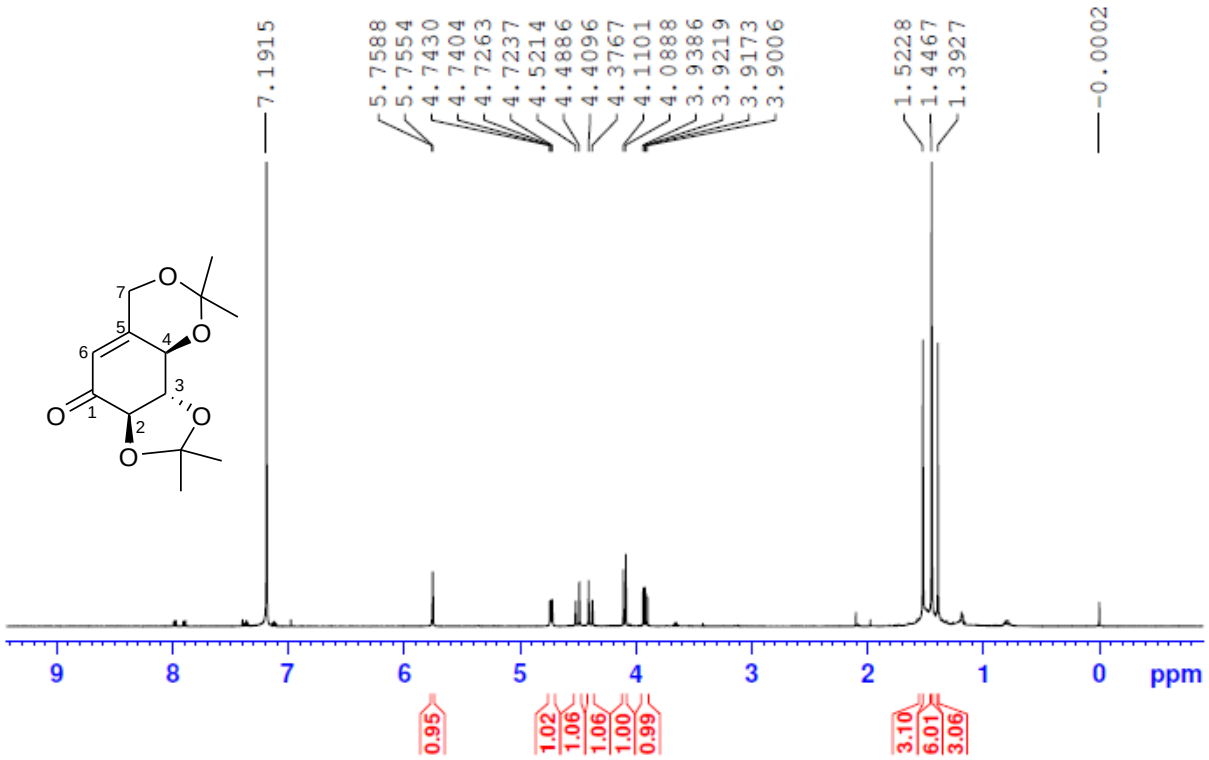
^{1}H NMR of **8** in $CDCl_3$



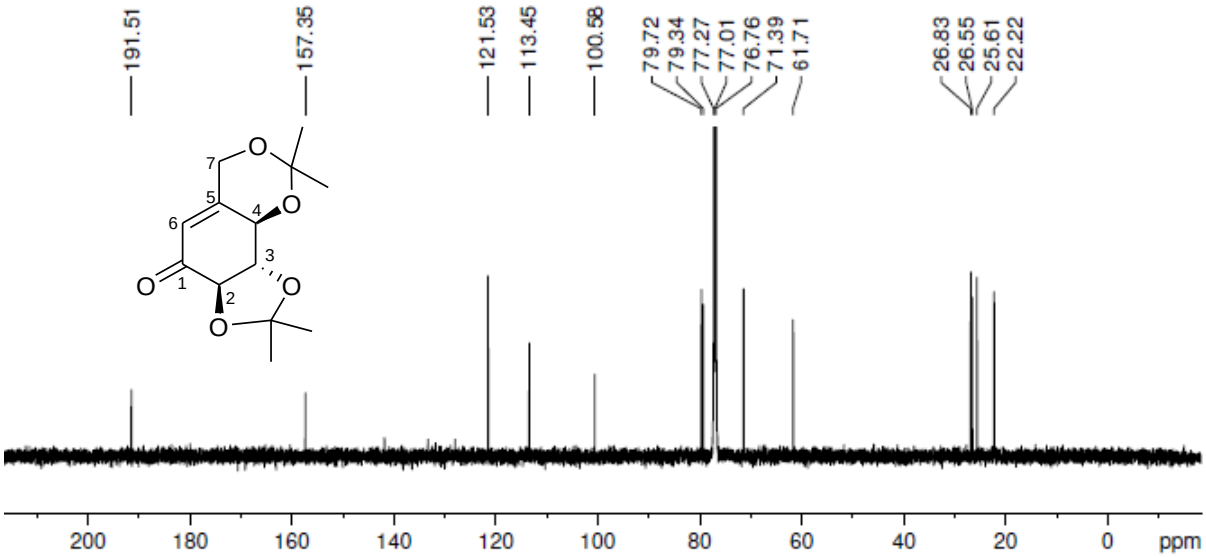
^{13}C NMR of **8** in $CDCl_3$



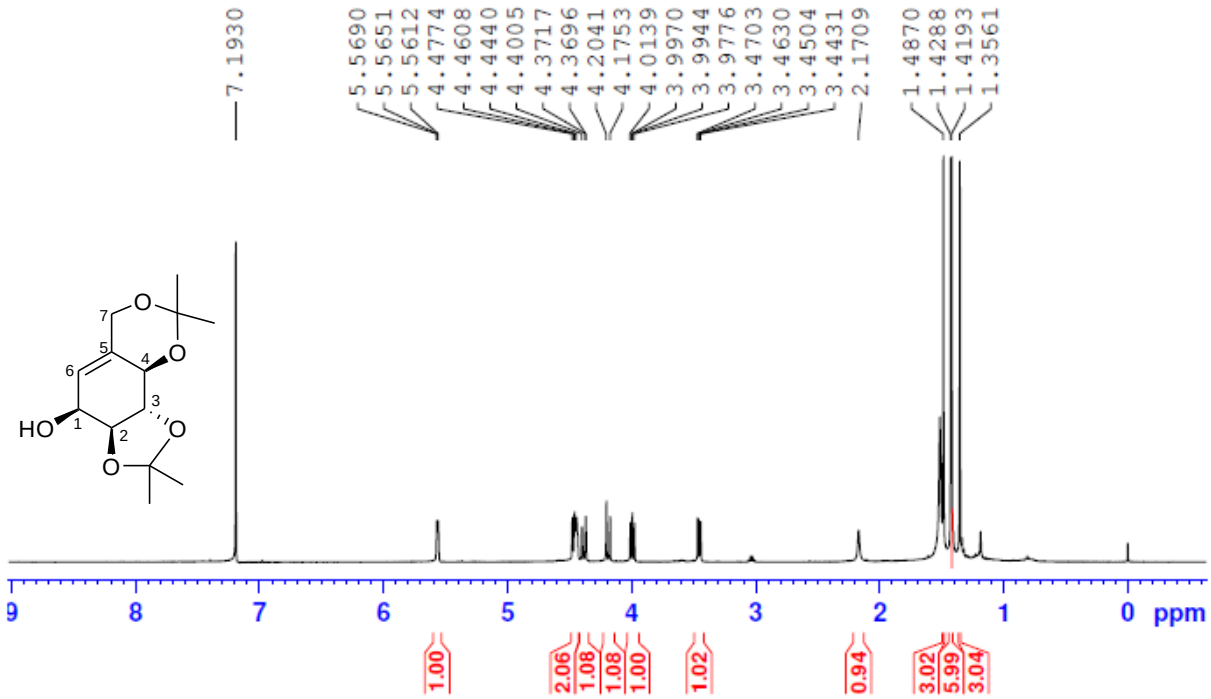
^{1}H NMR of **9** in $CDCl_3$



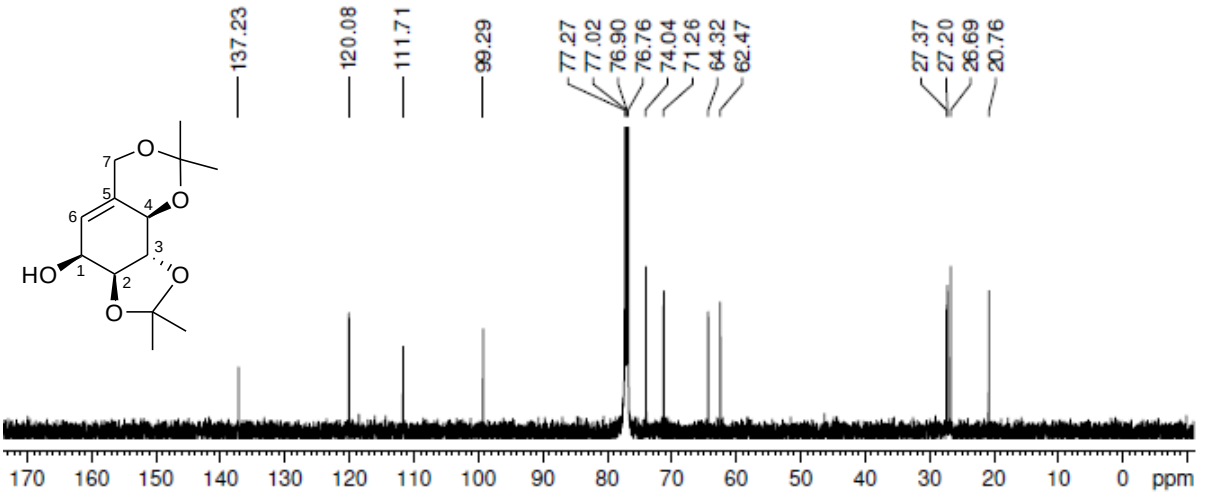
^{13}C NMR of **9** in $CDCl_3$



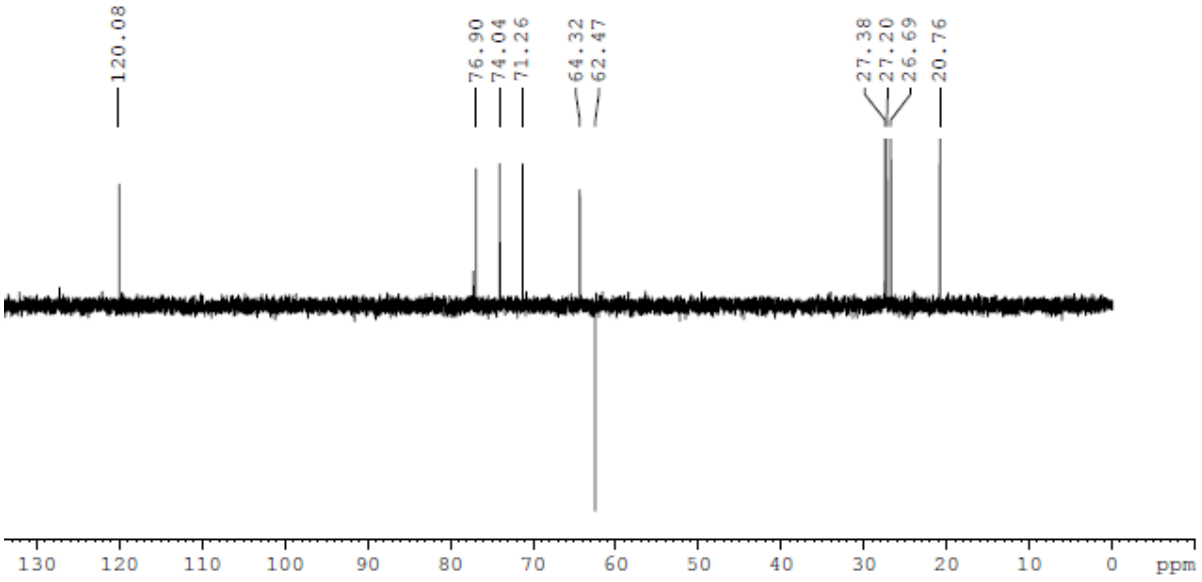
^{1}H NMR of **10** in $CDCl_3$



^{13}C NMR of **10** in $CDCl_3$



DEPT of **10**



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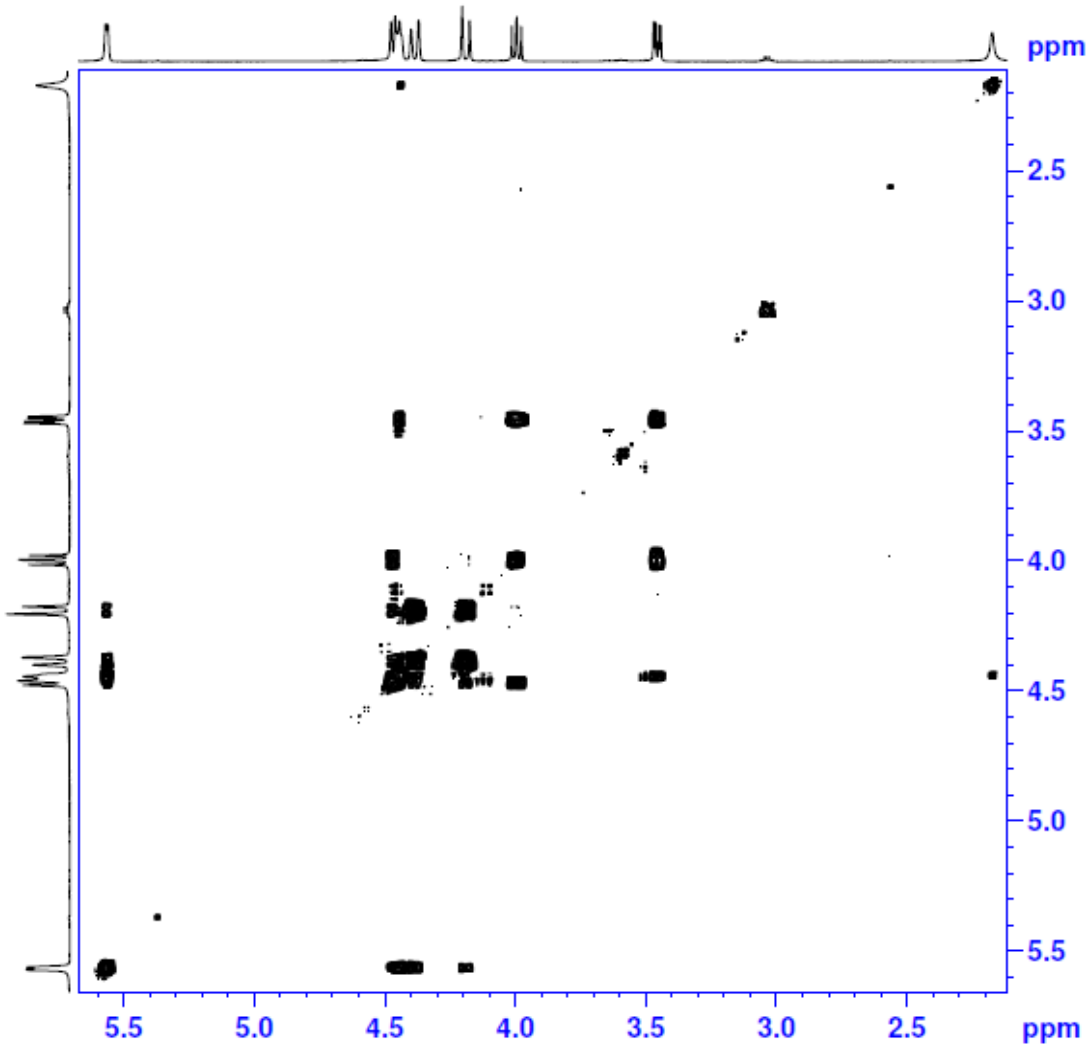
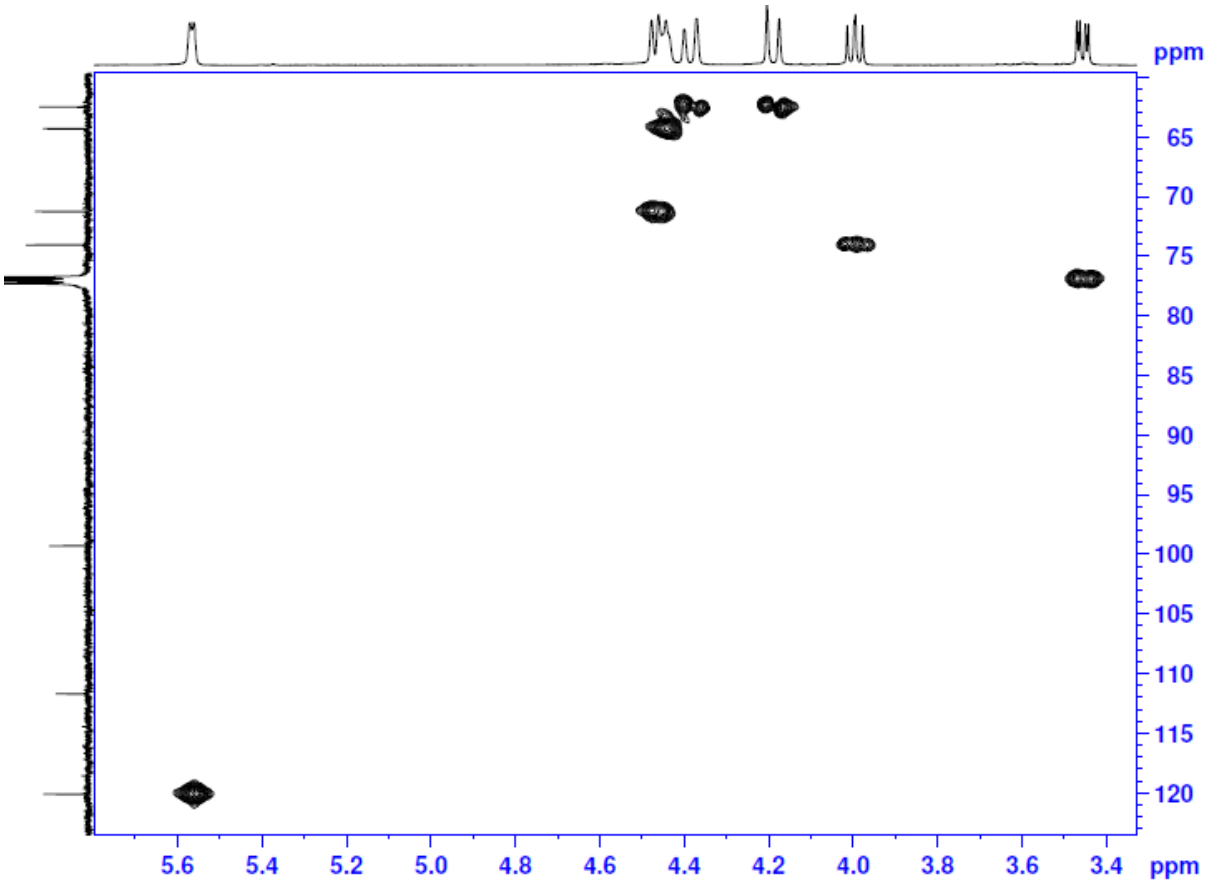


HMQC of **10**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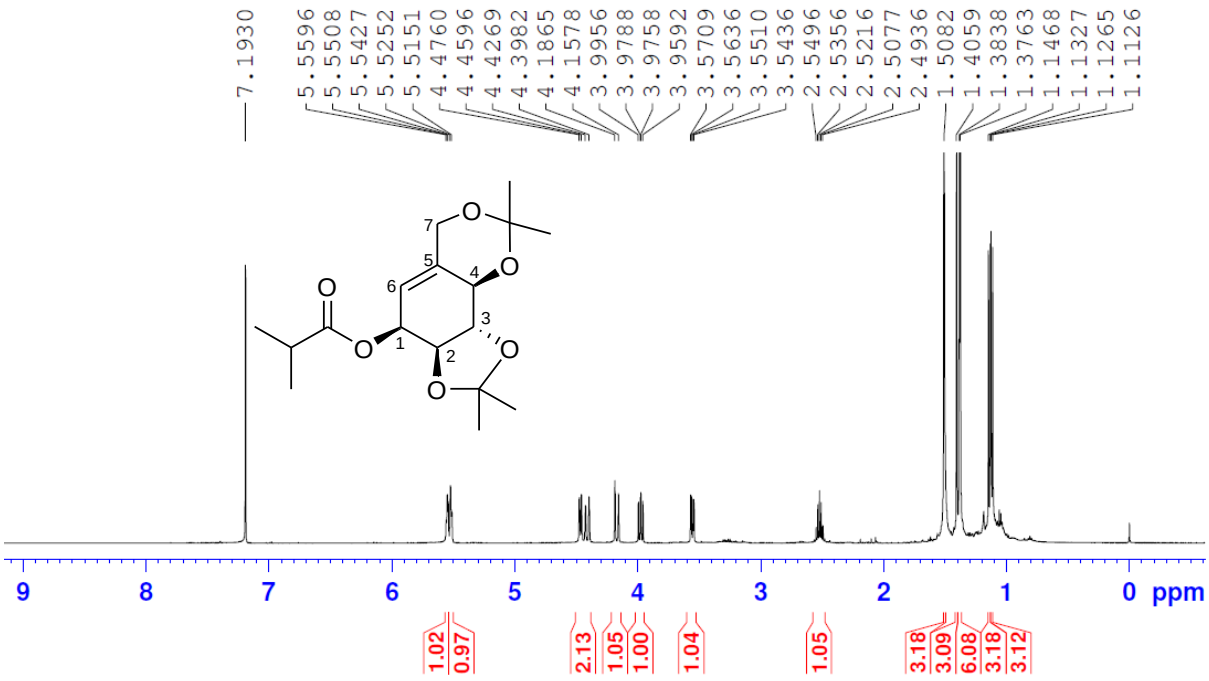
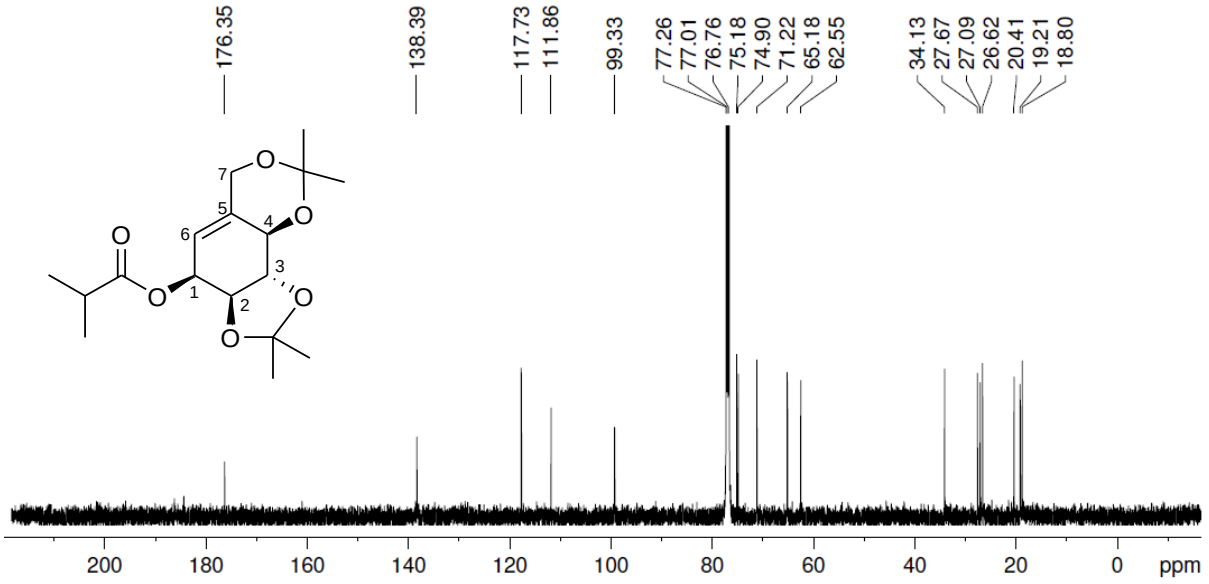
4.2
4.0
3.8
3.6
3.4
ppm

^{1}H NMR of **11** in $CDCl_3$



^{13}C NMR of **11** in $CDCl_3$



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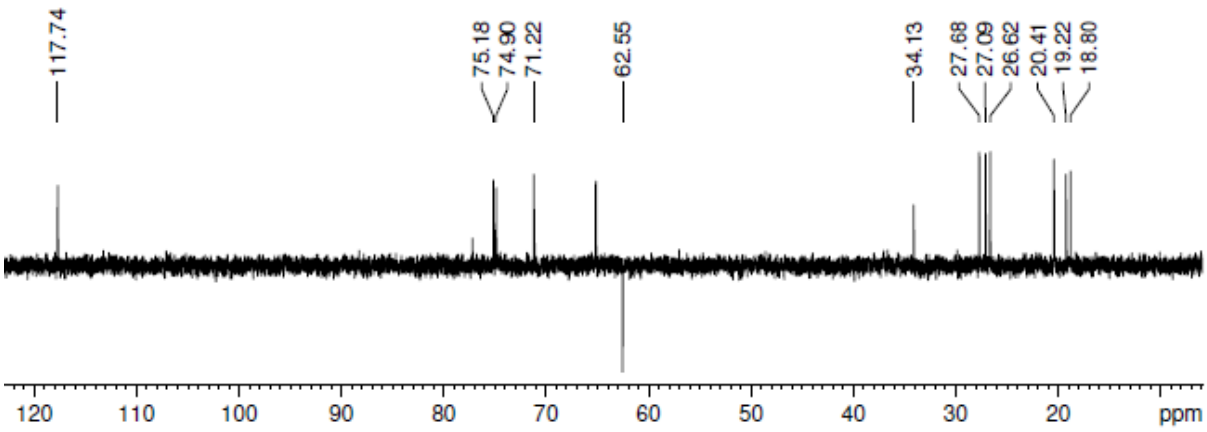

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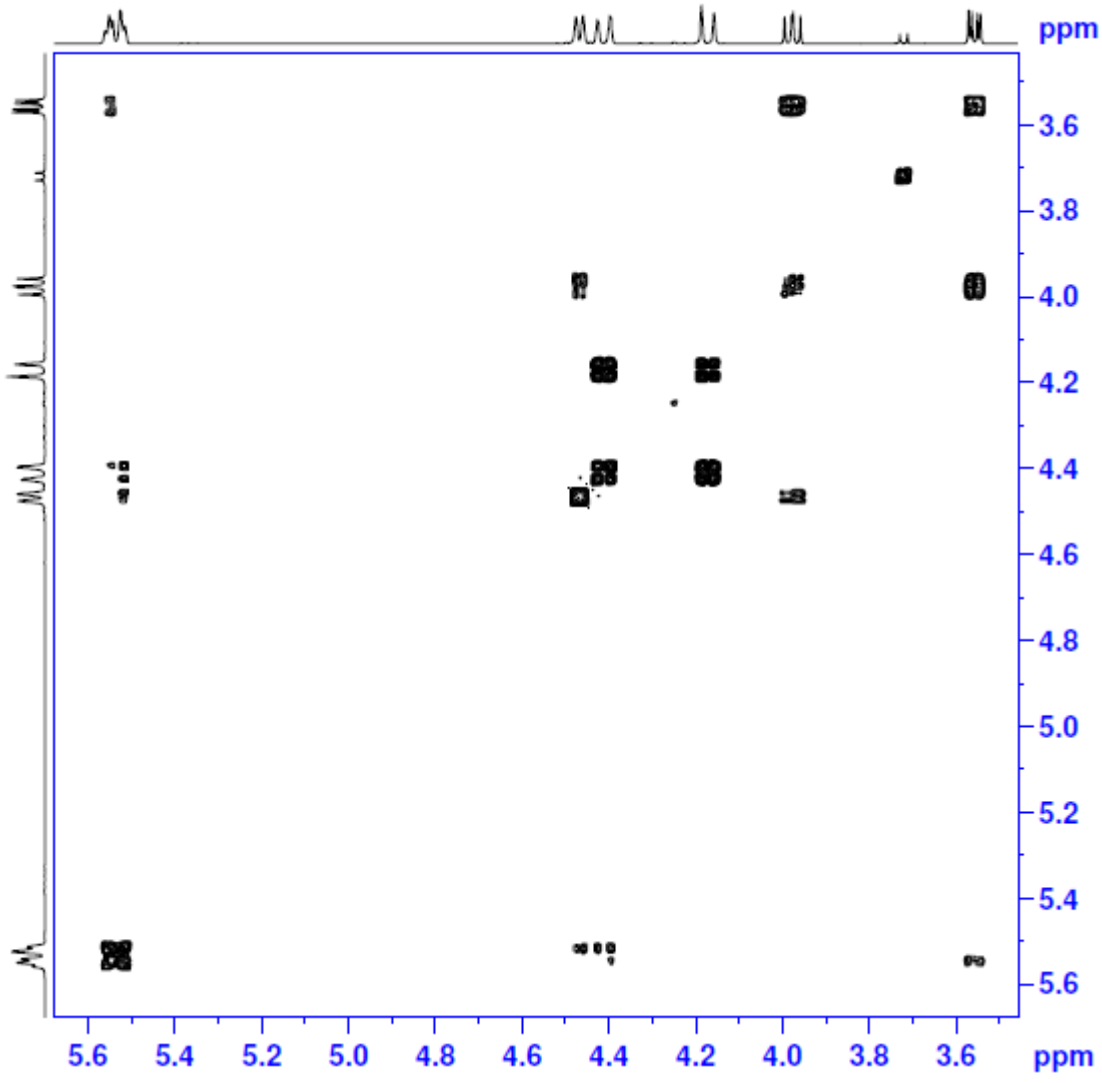

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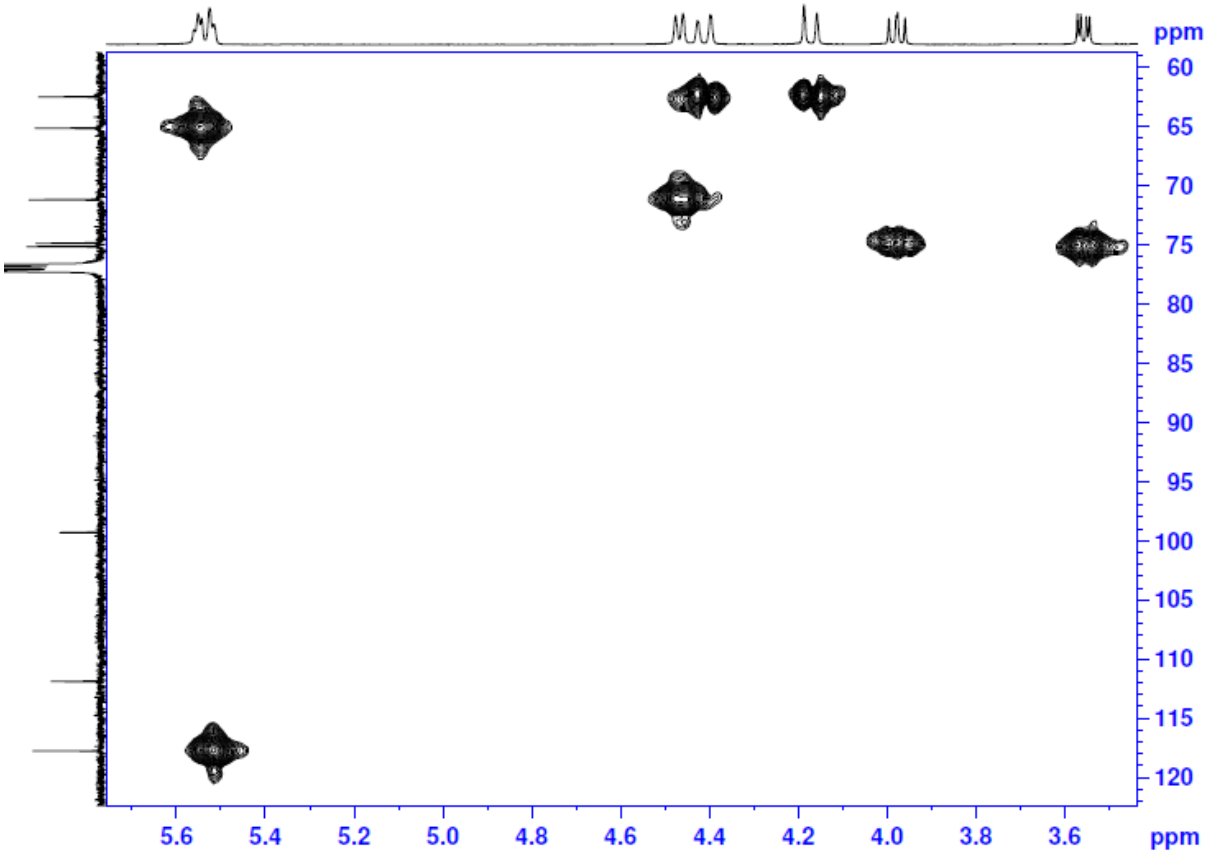
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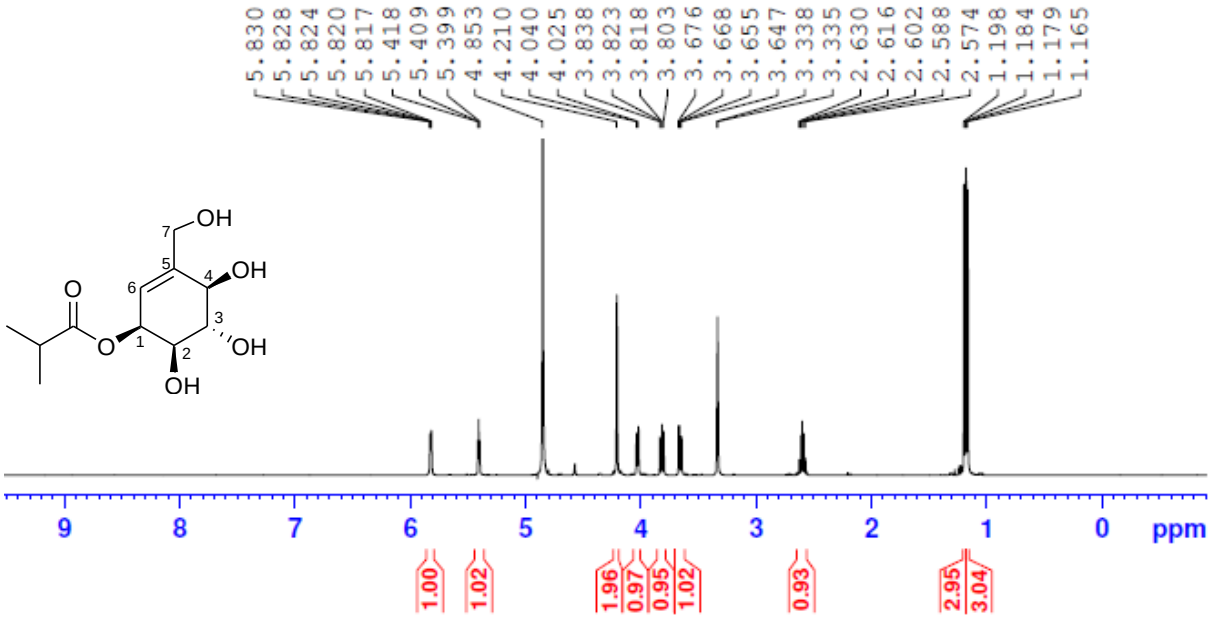
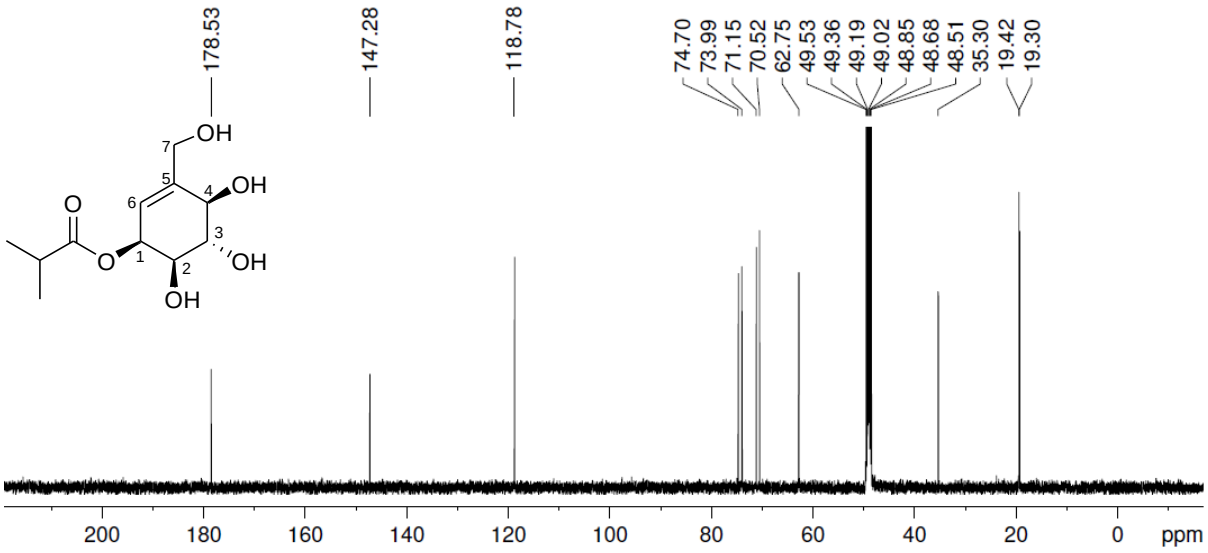
4.4
4.2
4.0
3.8
3.6
ppm

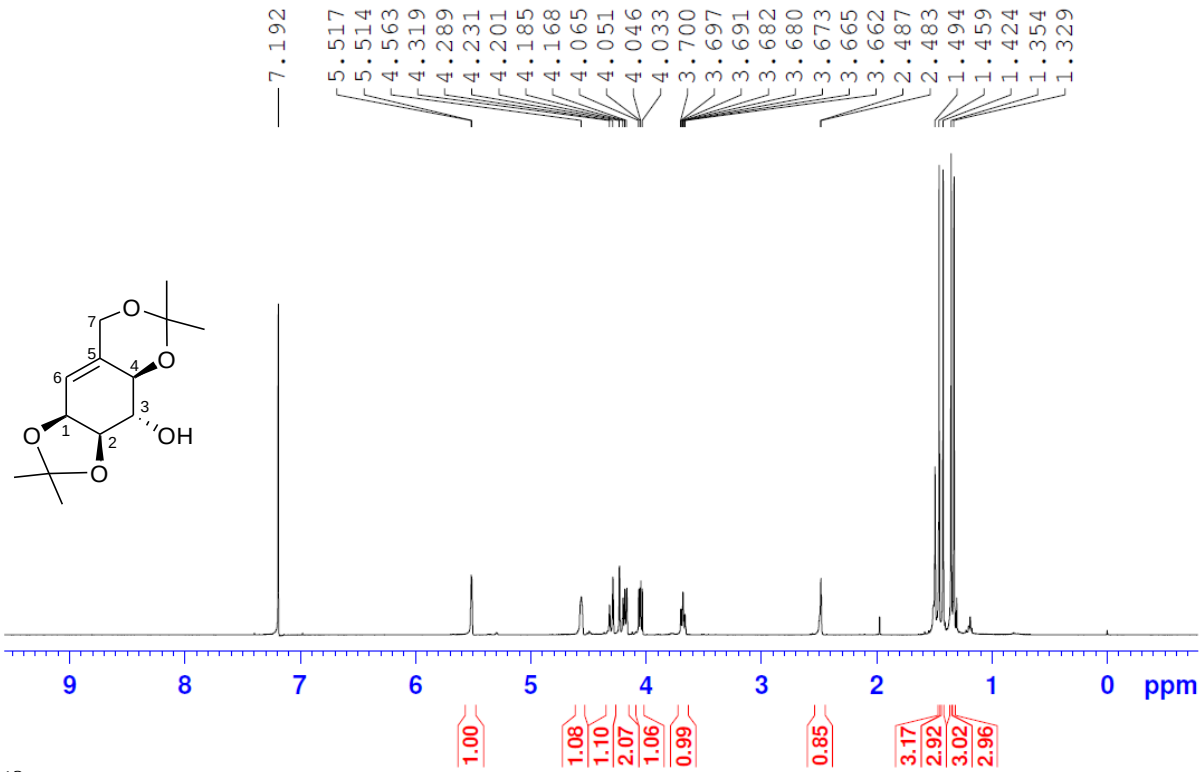
^{1}H NMR of lincitol A (**1**) in CD_3OD



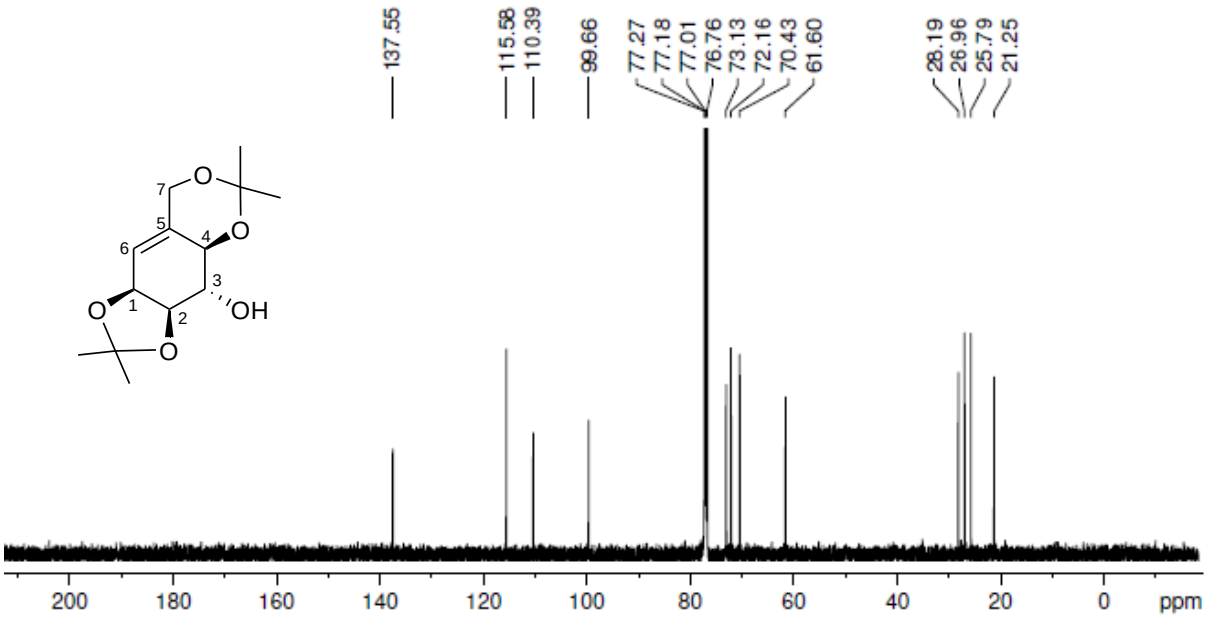
^{13}C NMR of lincitol A (**1**) in CD_3OD



^{1}H NMR of **12** in $CDCl_3$



^{13}C NMR of **12** in $CDCl_3$



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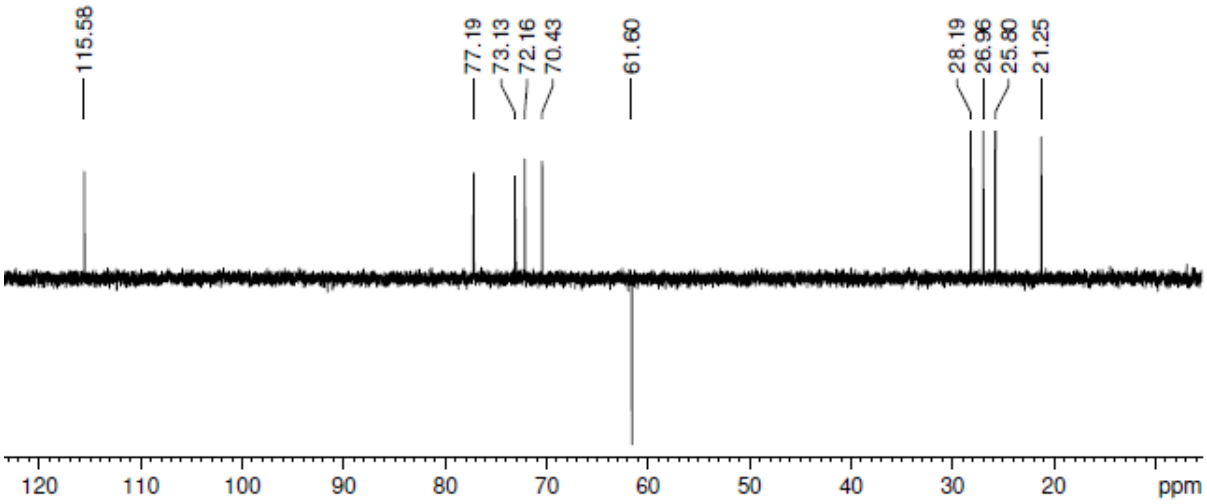

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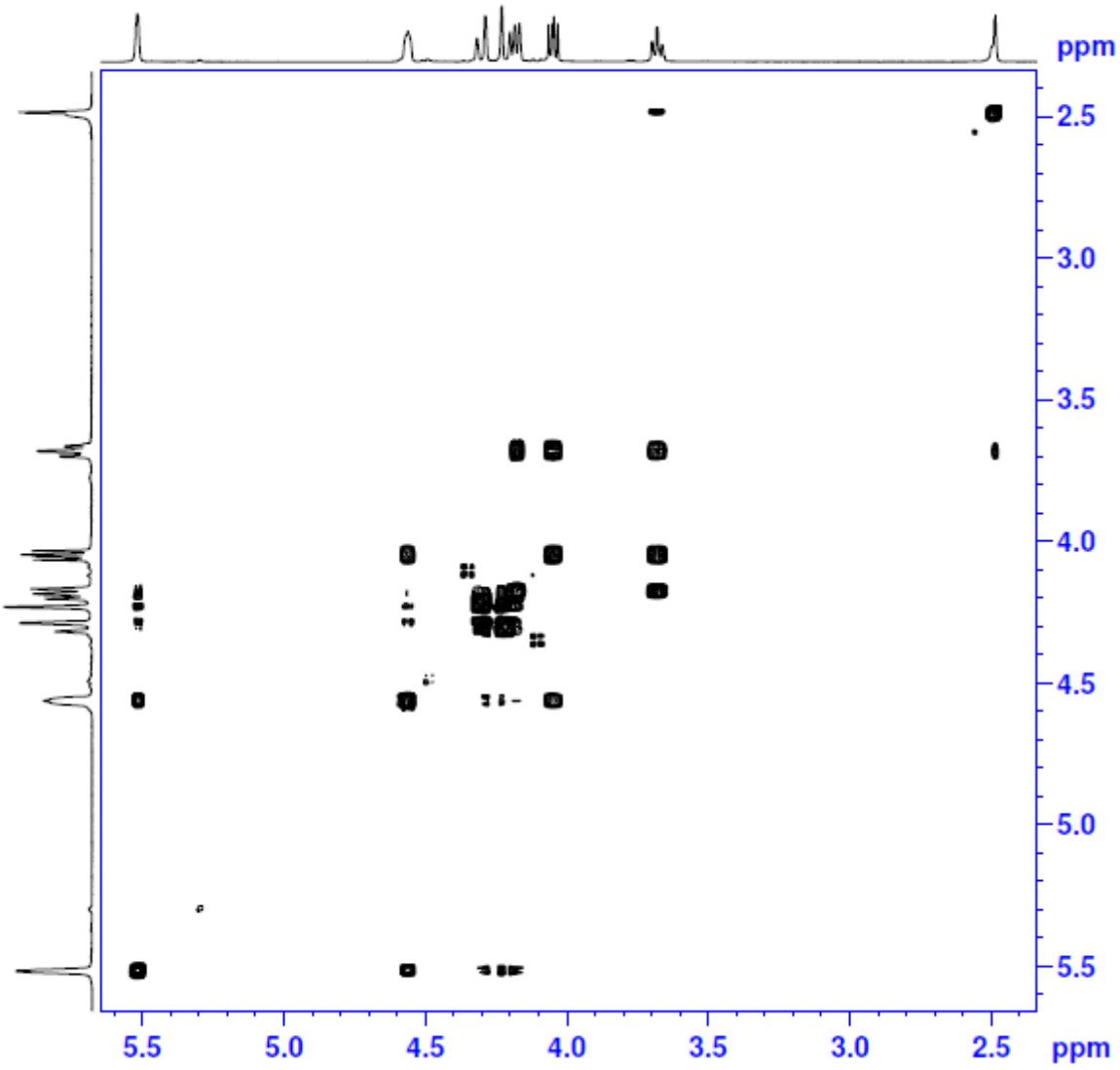
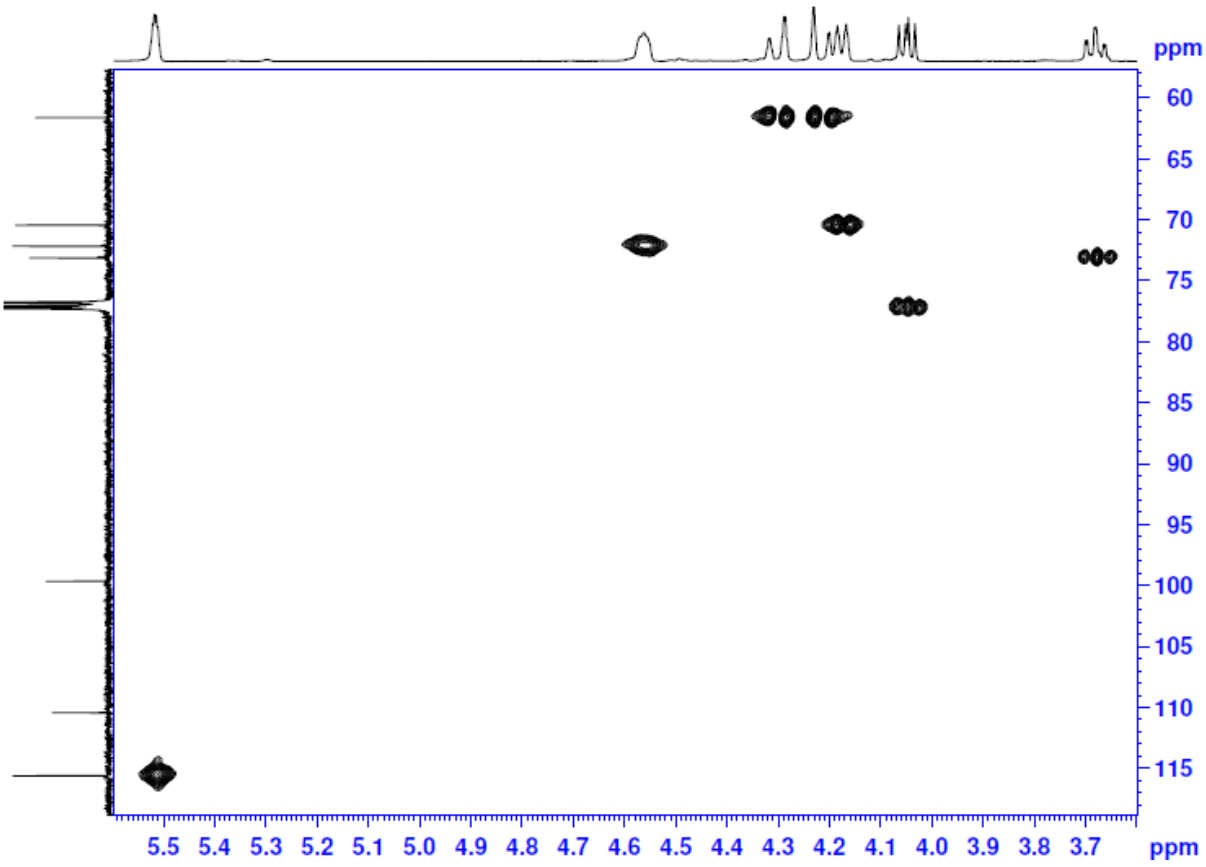


HMQC of **12**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115
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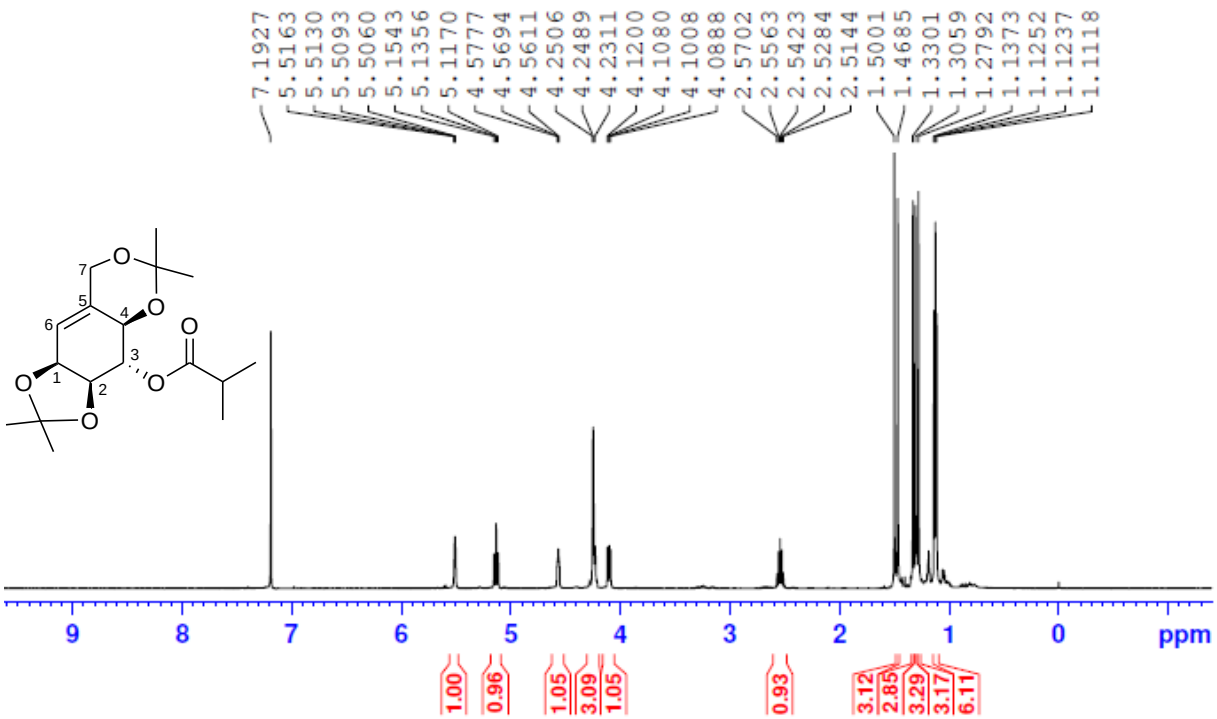
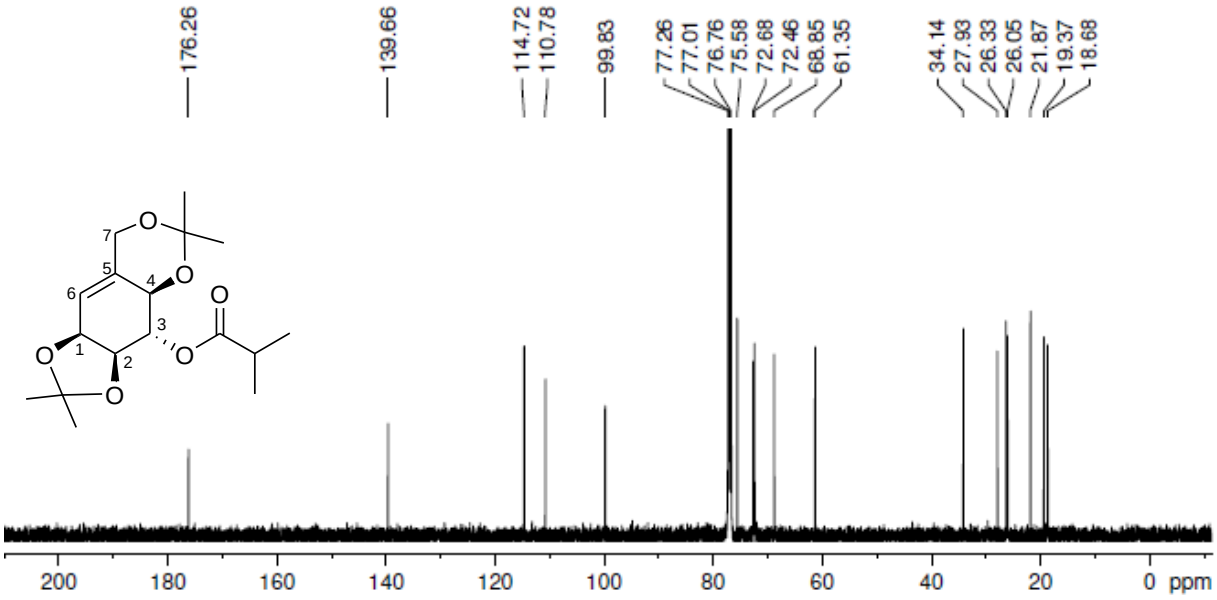
ppm

^{1}H NMR of **13** in $CDCl_3$



^{13}C NMR of **13** in $CDCl_3$



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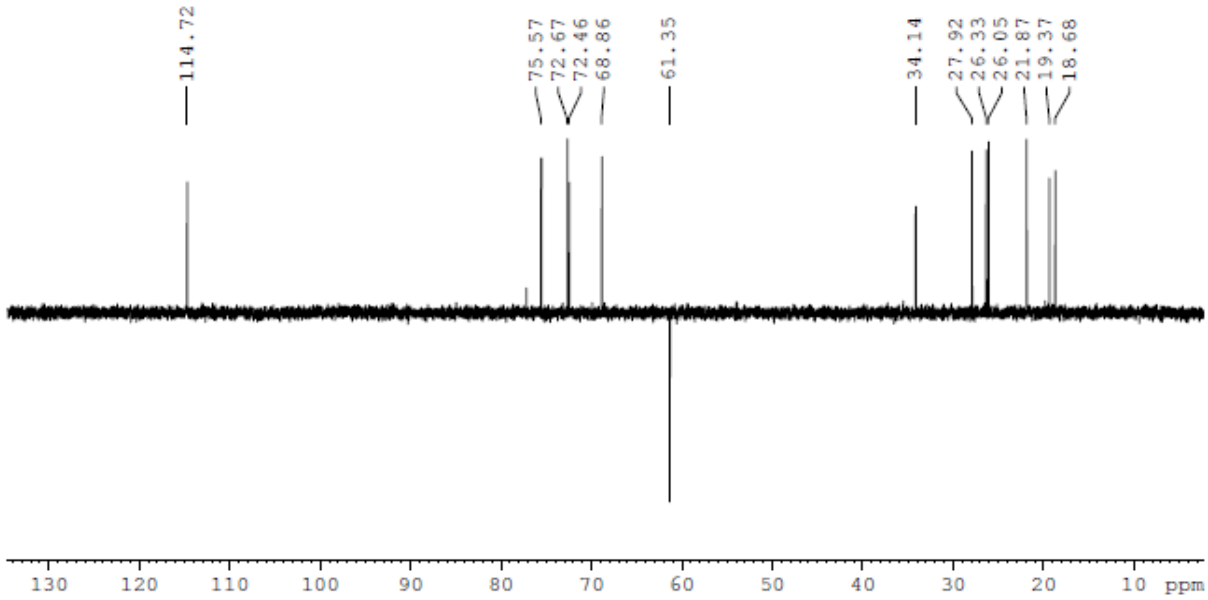

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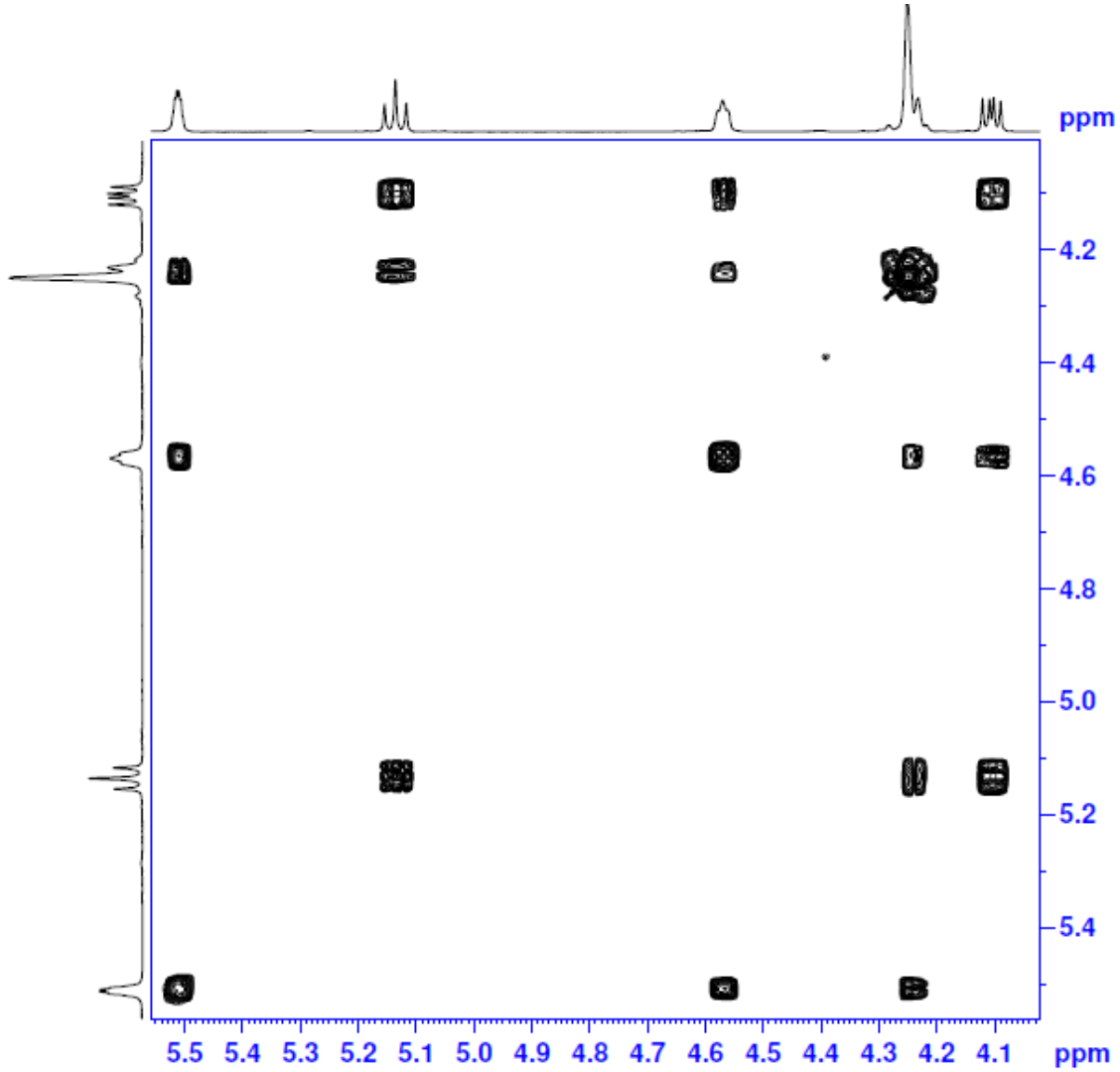

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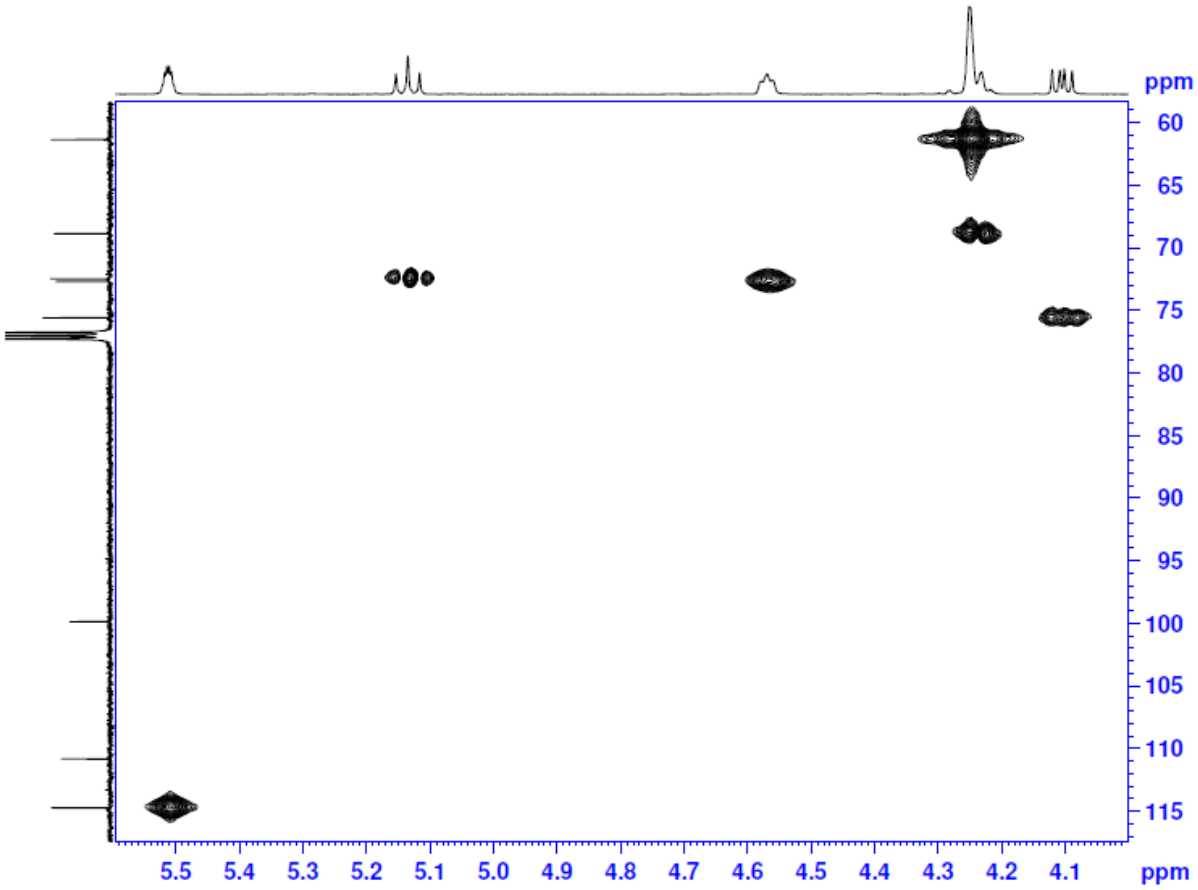
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5.1
5.0
4.9
4.8
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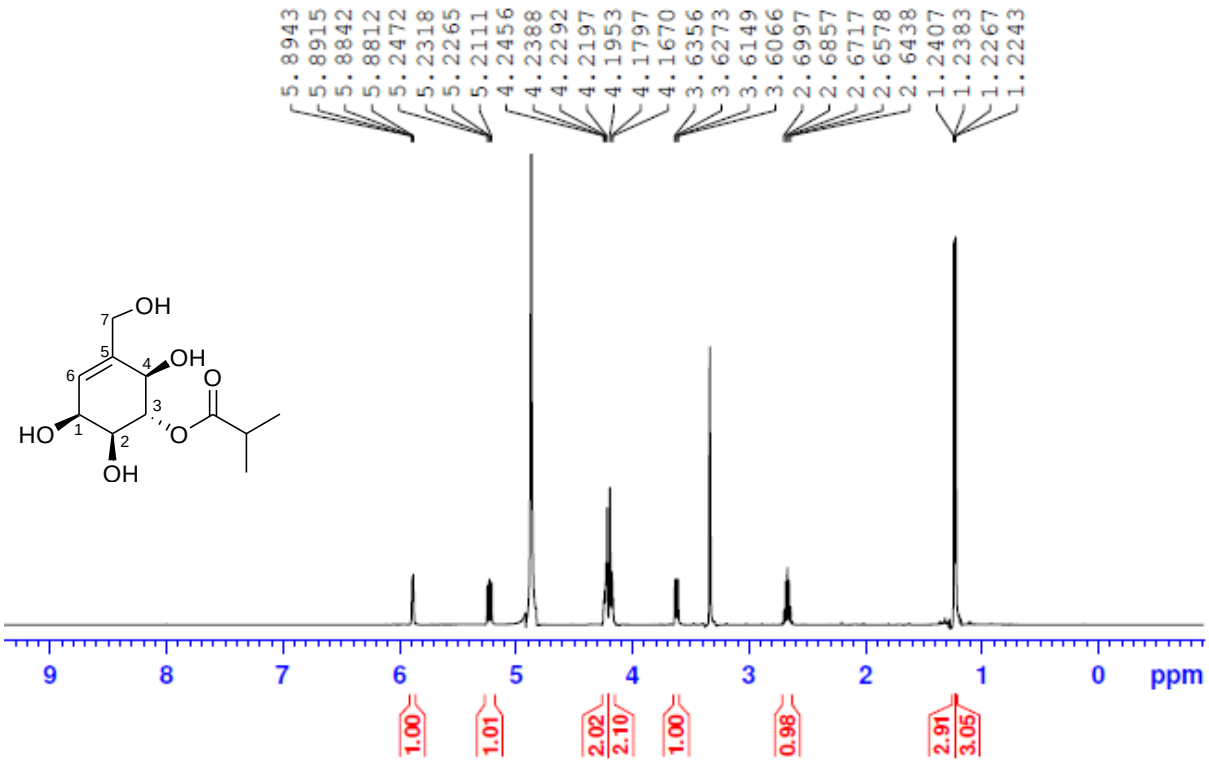
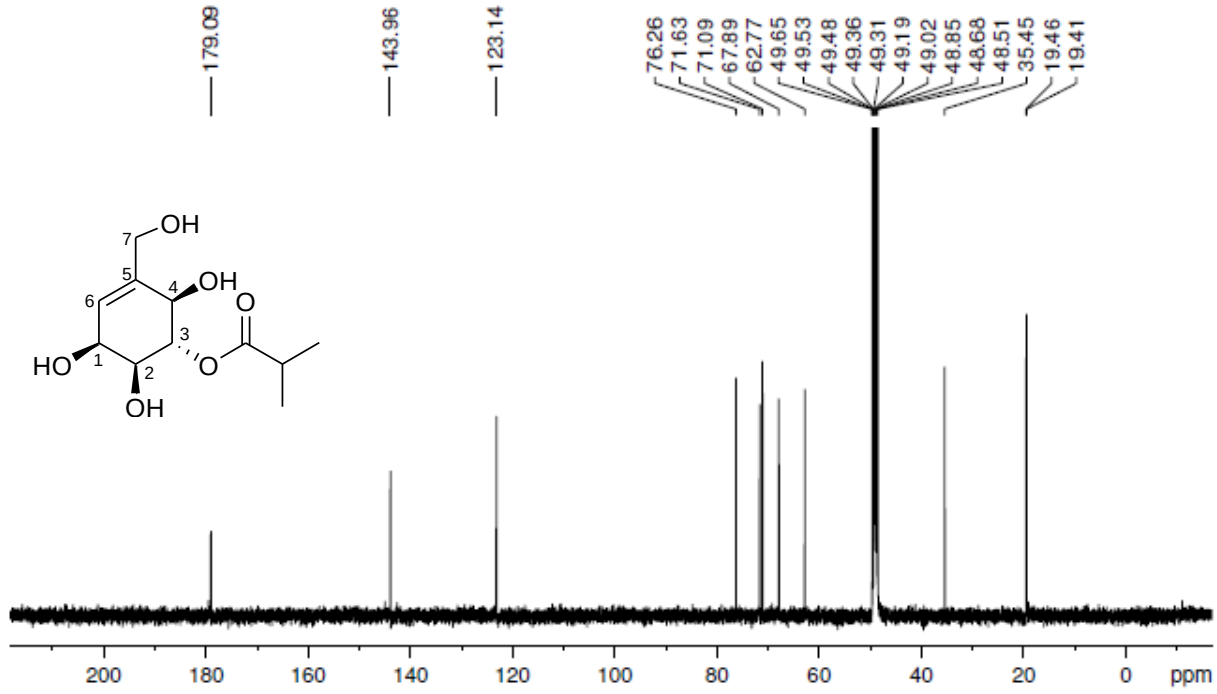
4.4
4.3
4.2
4.1
ppm

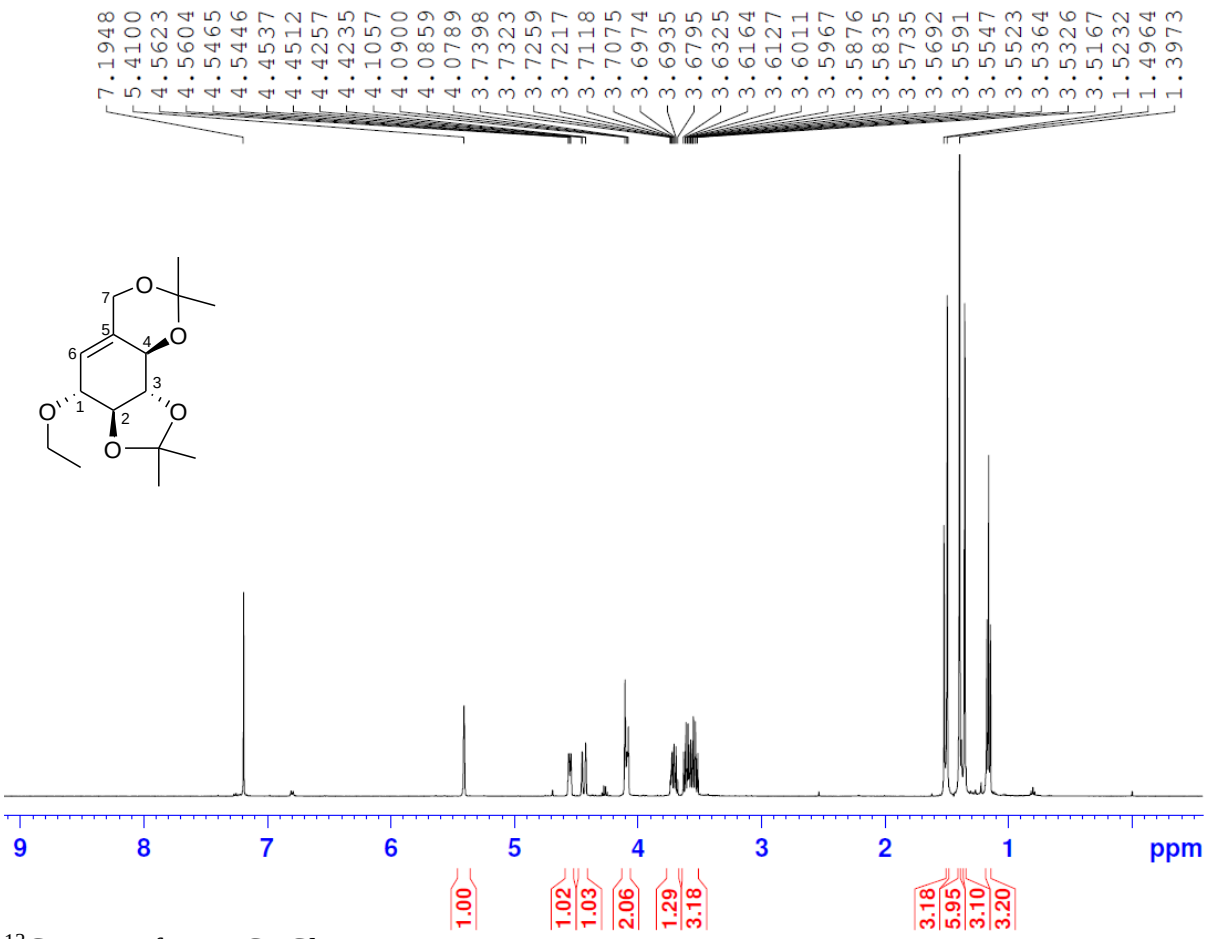
^{1}H NMR of lincitol B (**2**) in CD_3OD



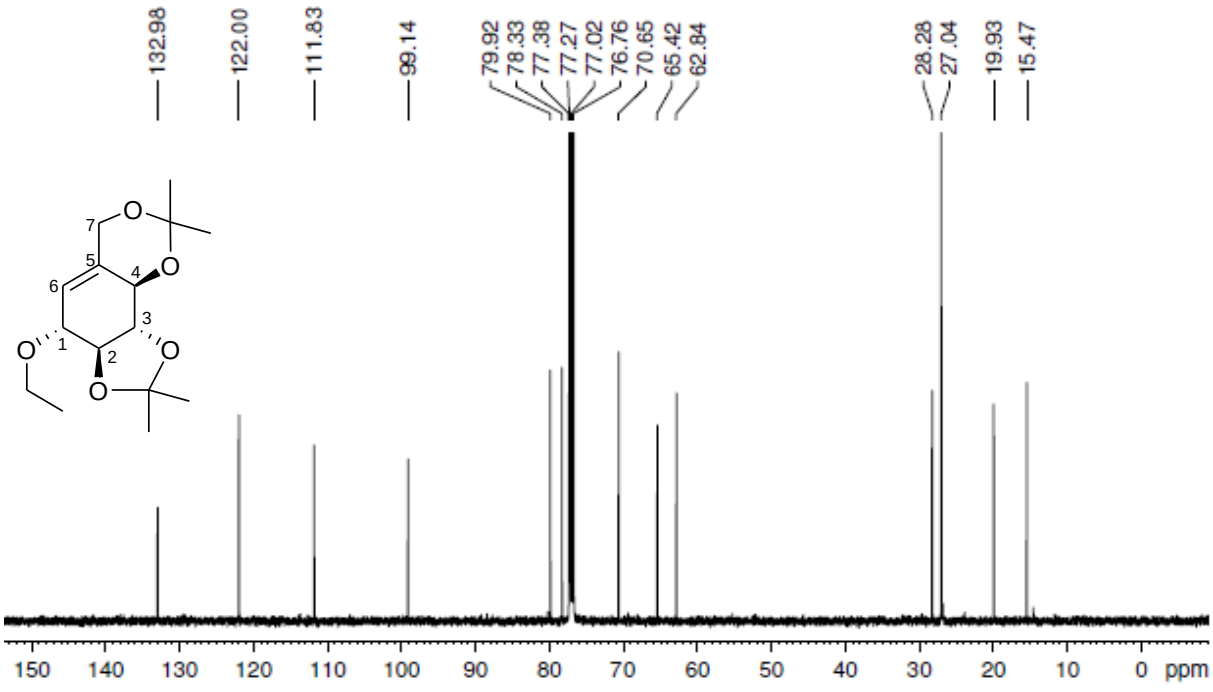
^{13}C NMR of lincitol B (**2**) in CD_3OD



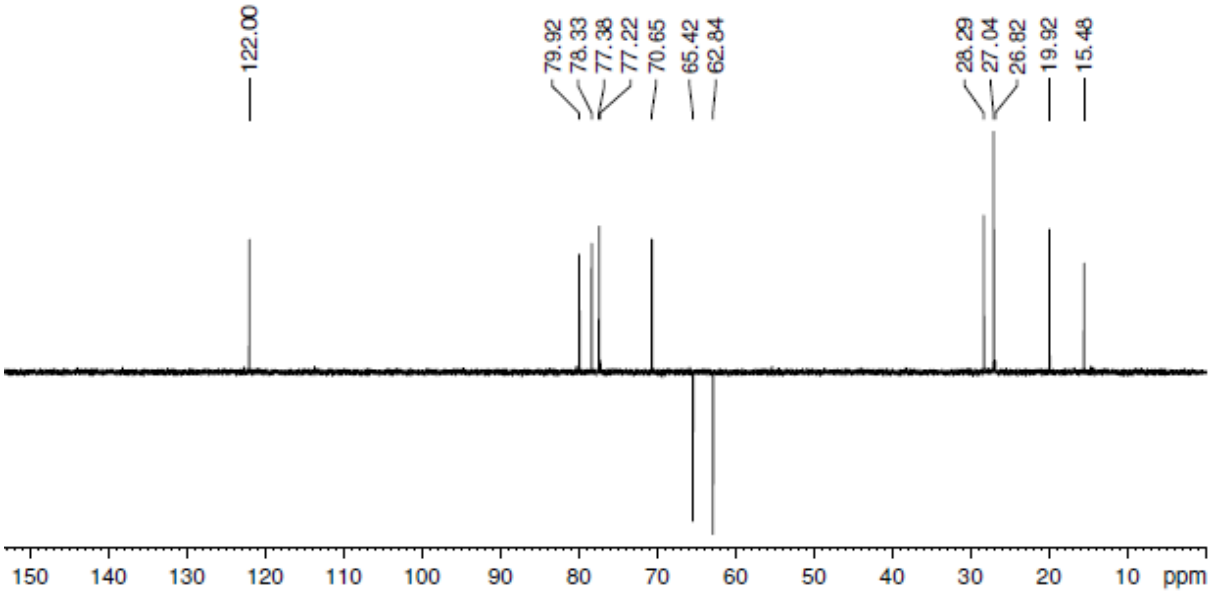
^{1}H NMR of **15** in $CDCl_3$



^{13}C NMR of **15** in $CDCl_3$



DEPT of **15**



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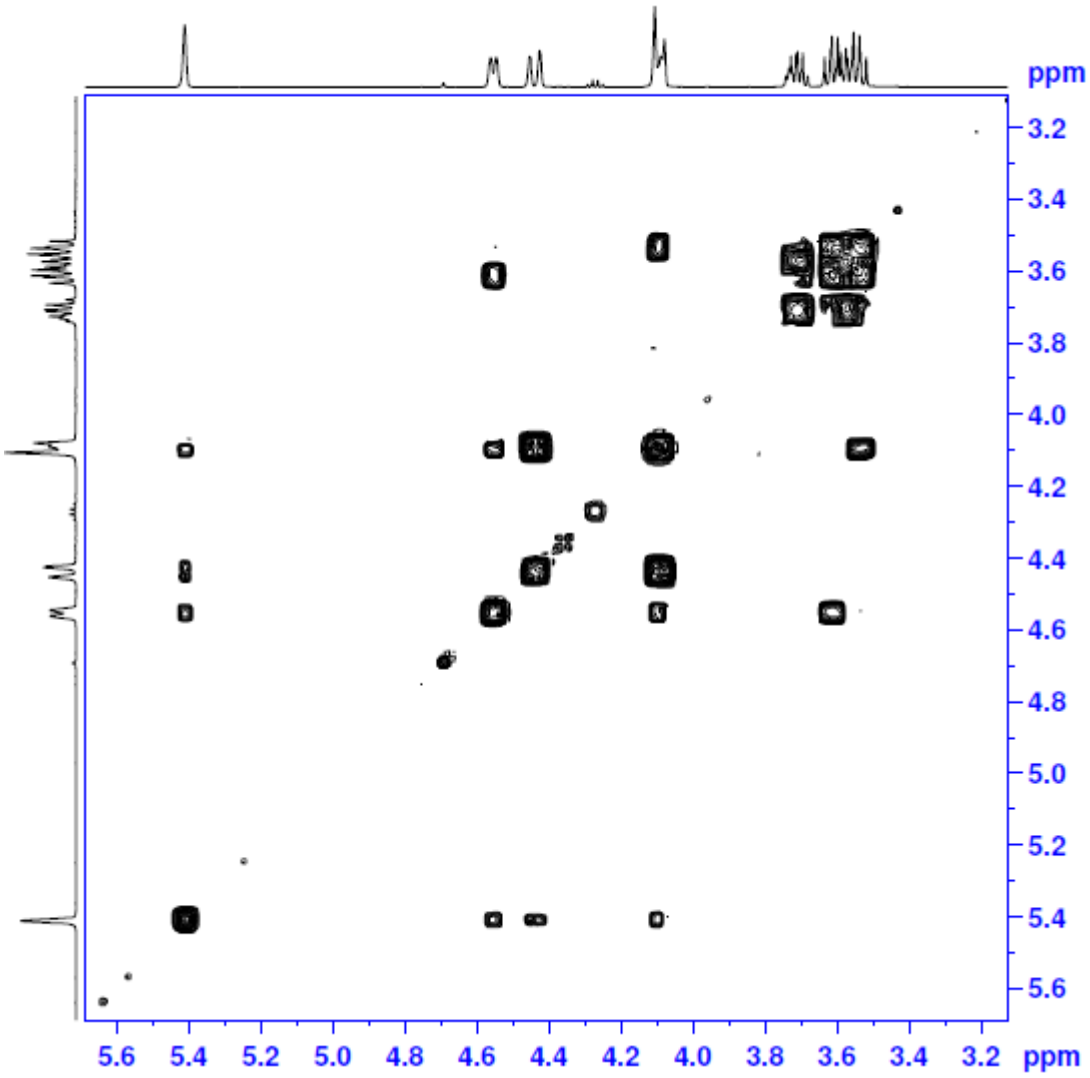
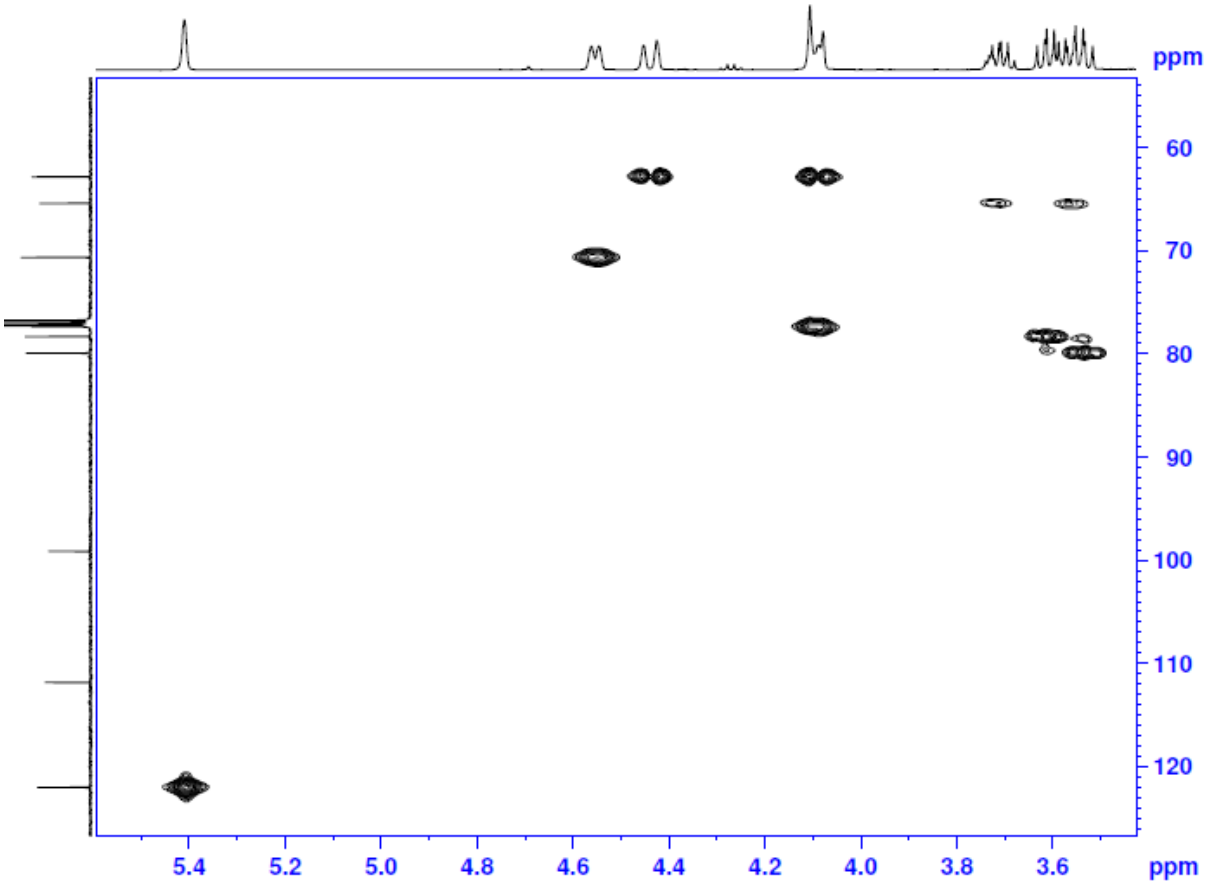
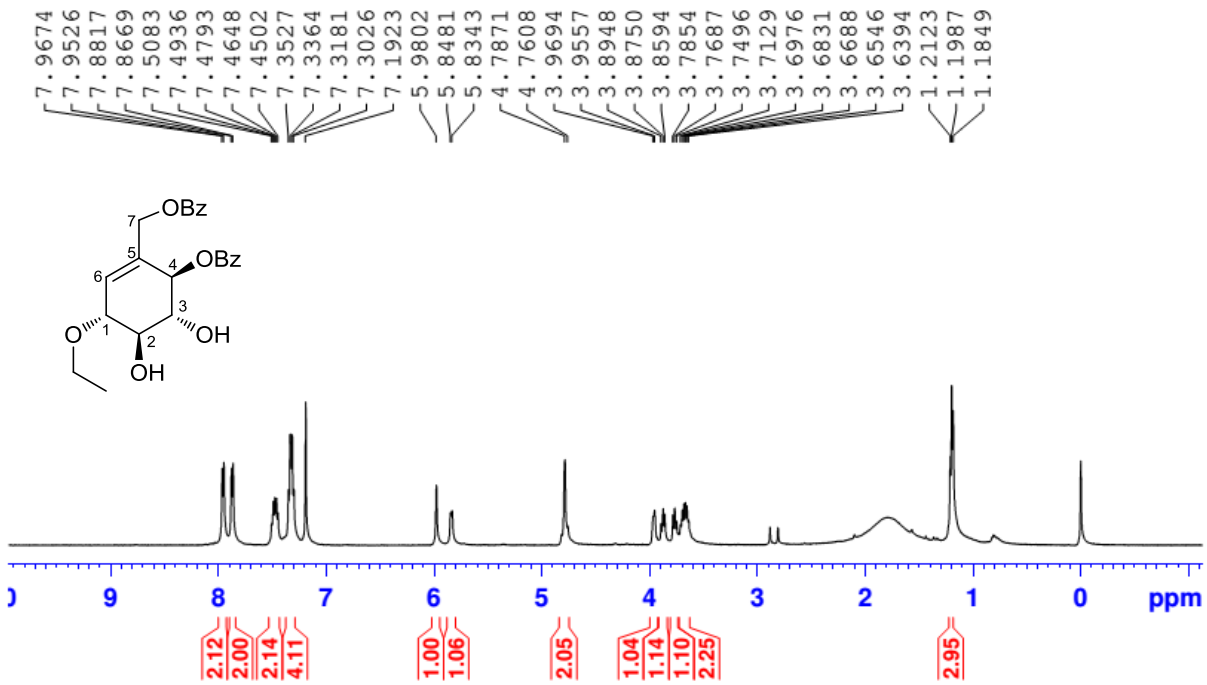


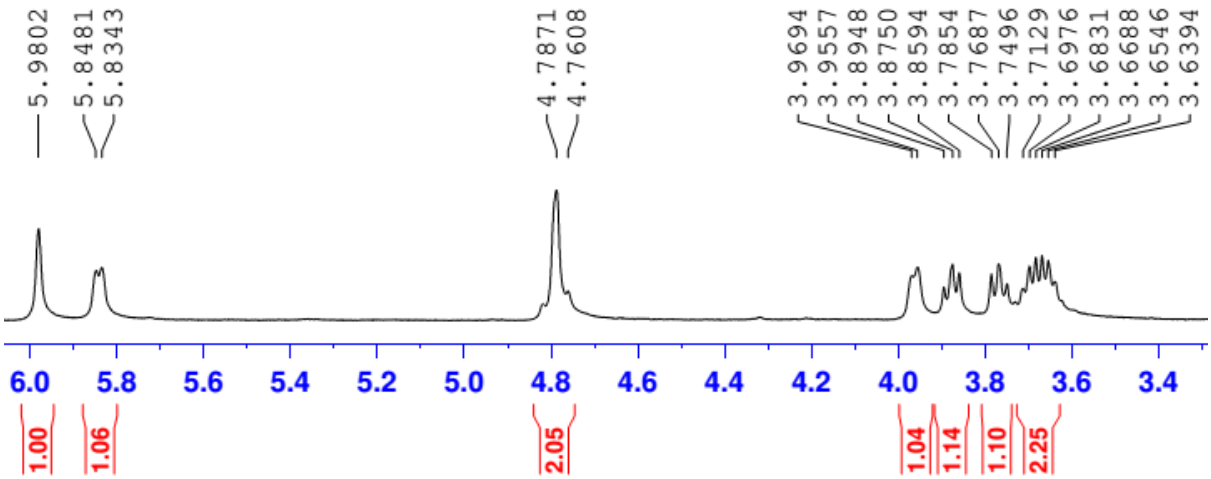
HMQC of **15**



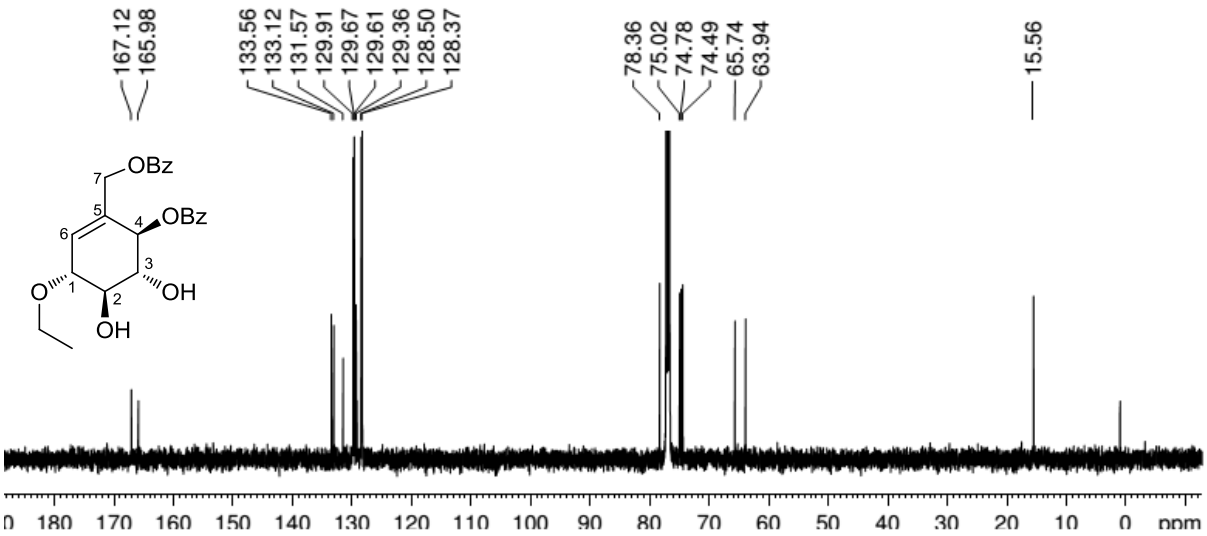
^{1}H NMR of **19** in $CDCl_3$



^{1}H NMR of **19** in $CDCl_3$ (zoom)



^{13}C NMR of **19** in $CDCl_3$



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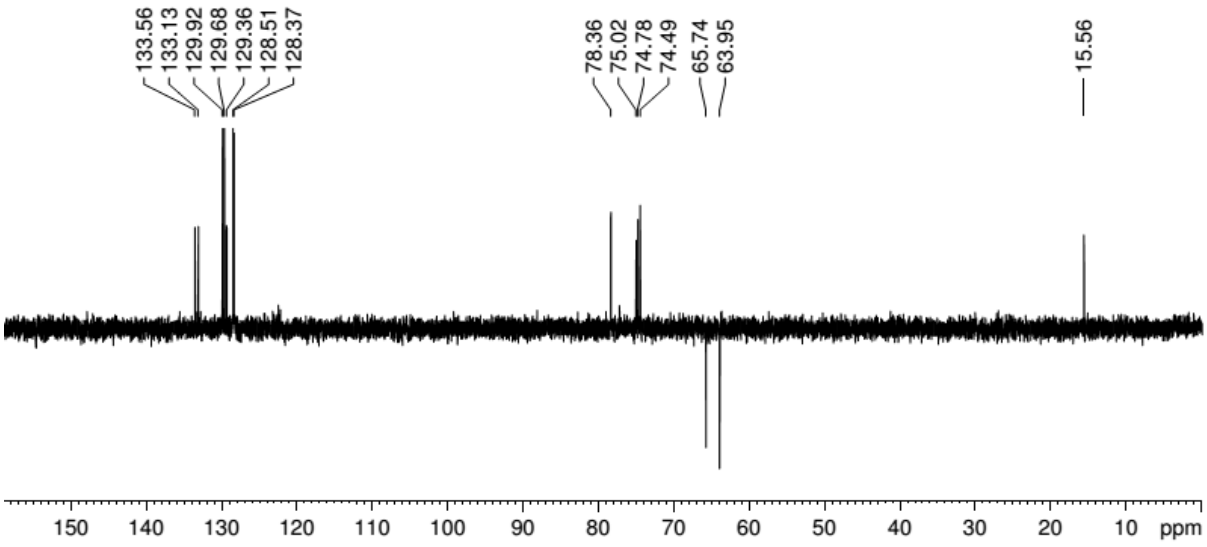
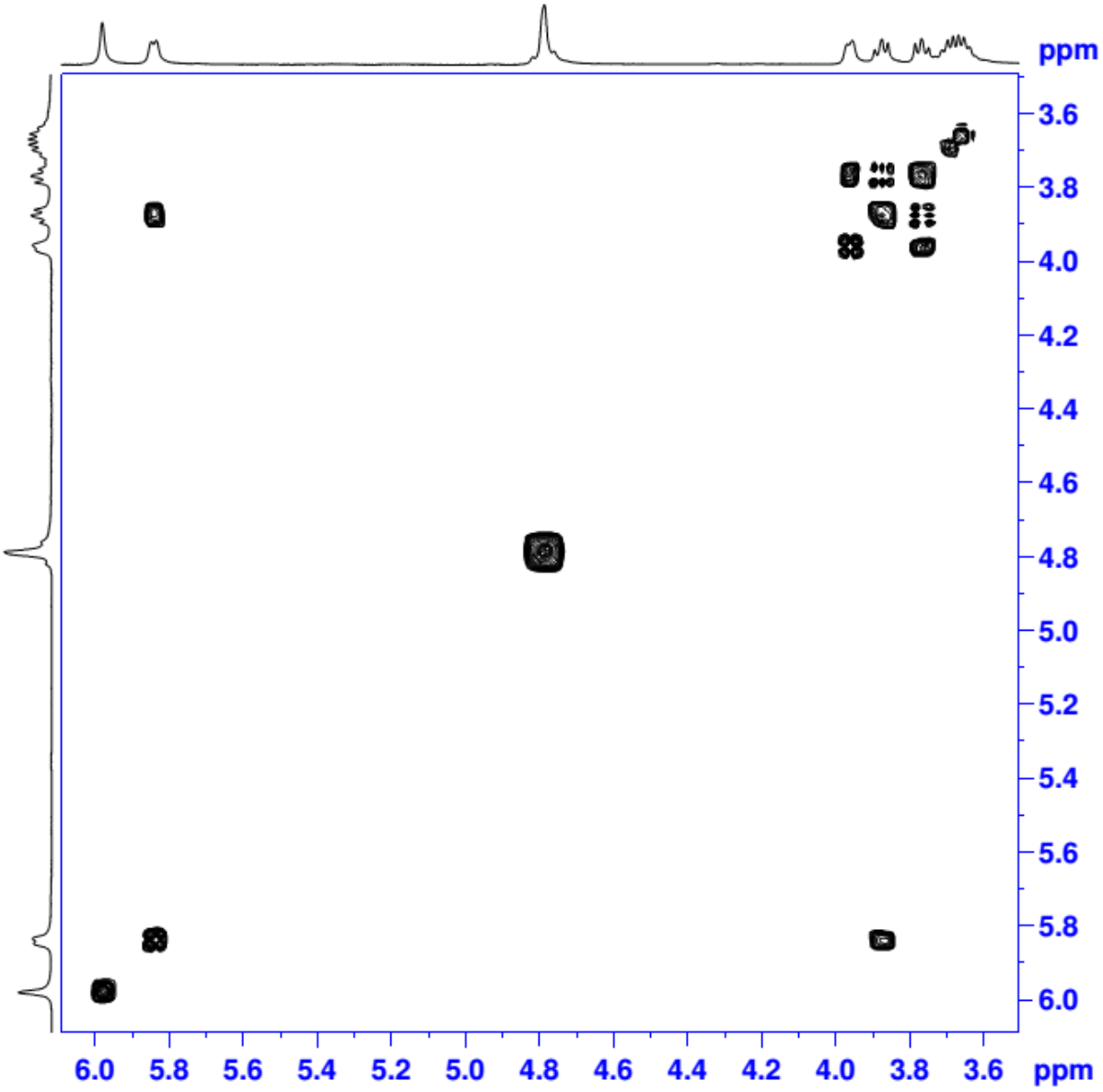


COSY of **19**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4.4
4.6
4.8
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5.4
5.6
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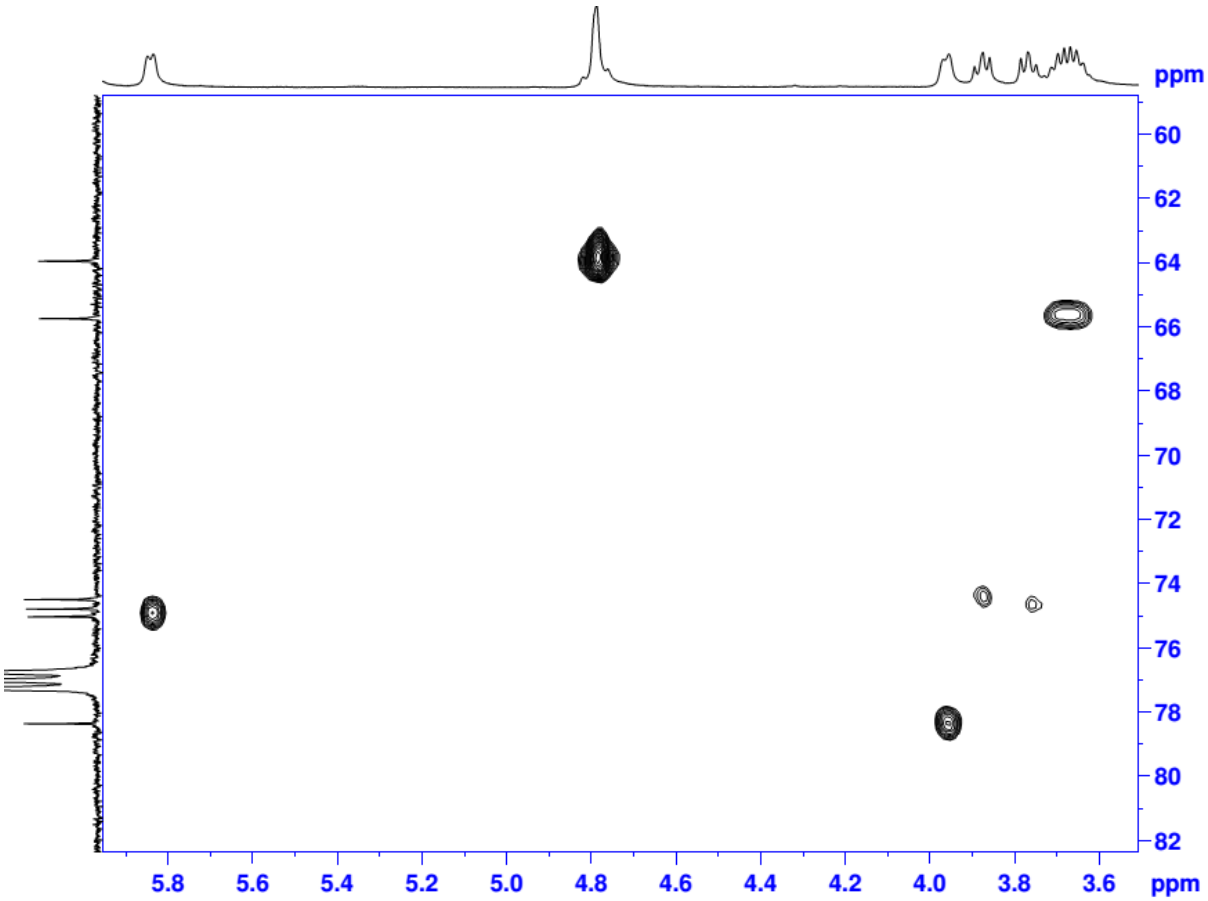
6.0 5.8 5.6 5.4 5.2 5.0 4.8 4.6 4.4 4.2 4.0 3.8 3.6 ppm

HMQC of **19**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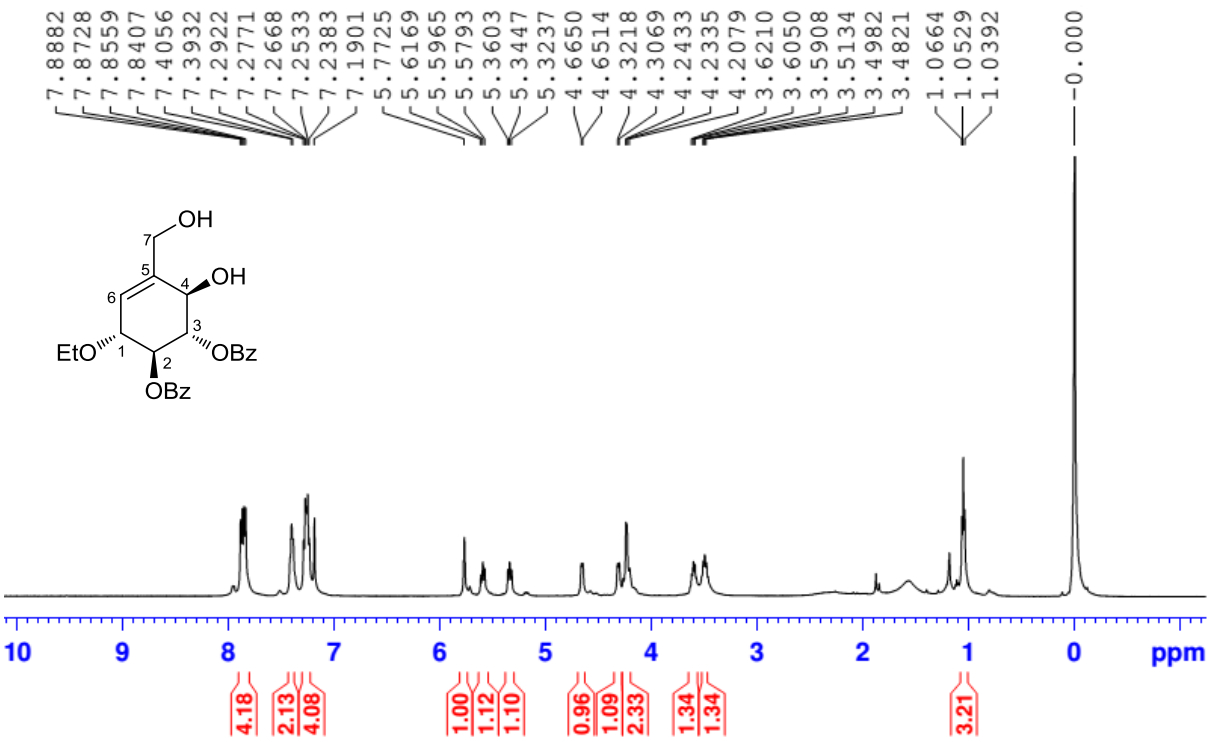
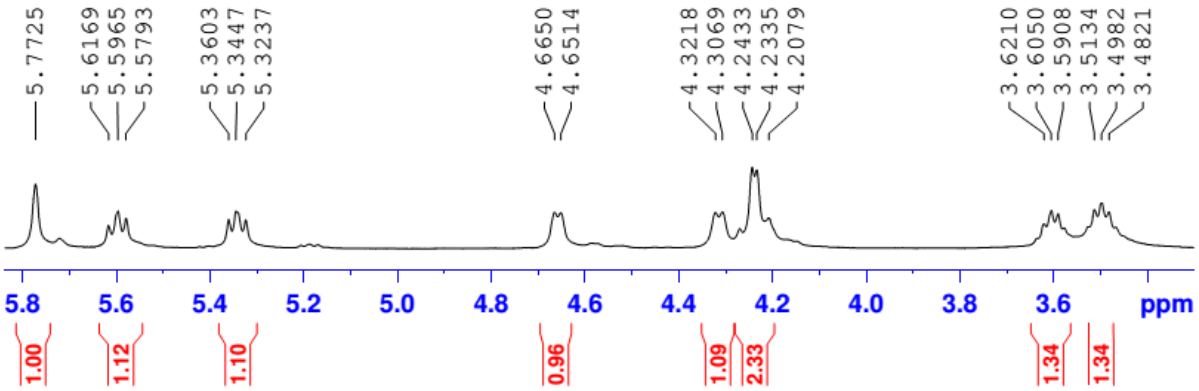
4.4
4.2
4.0
3.8
3.6
ppm

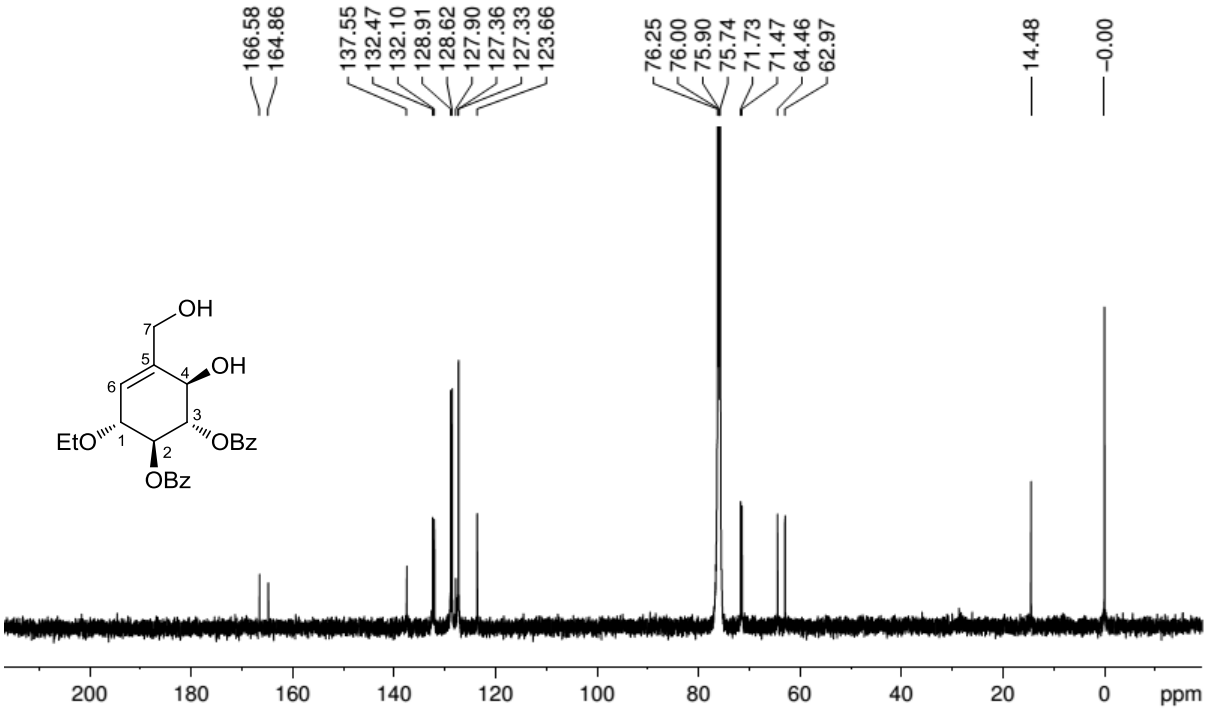
^{1}H NMR of **20** in $CDCl_3$



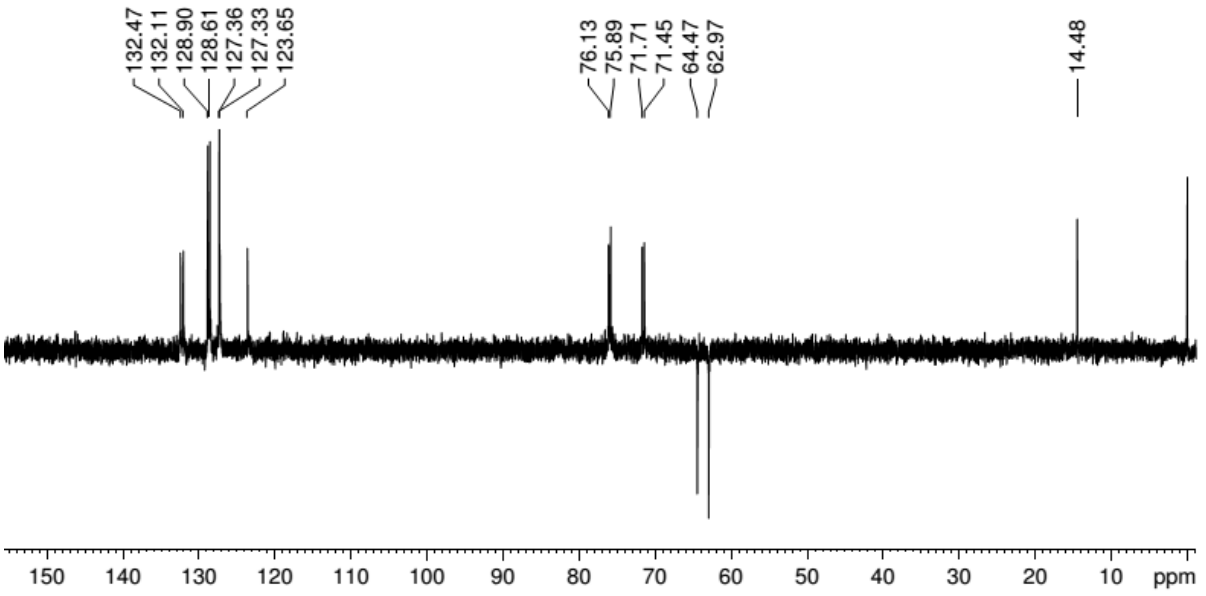
^{1}H NMR of **20** in $CDCl_3$



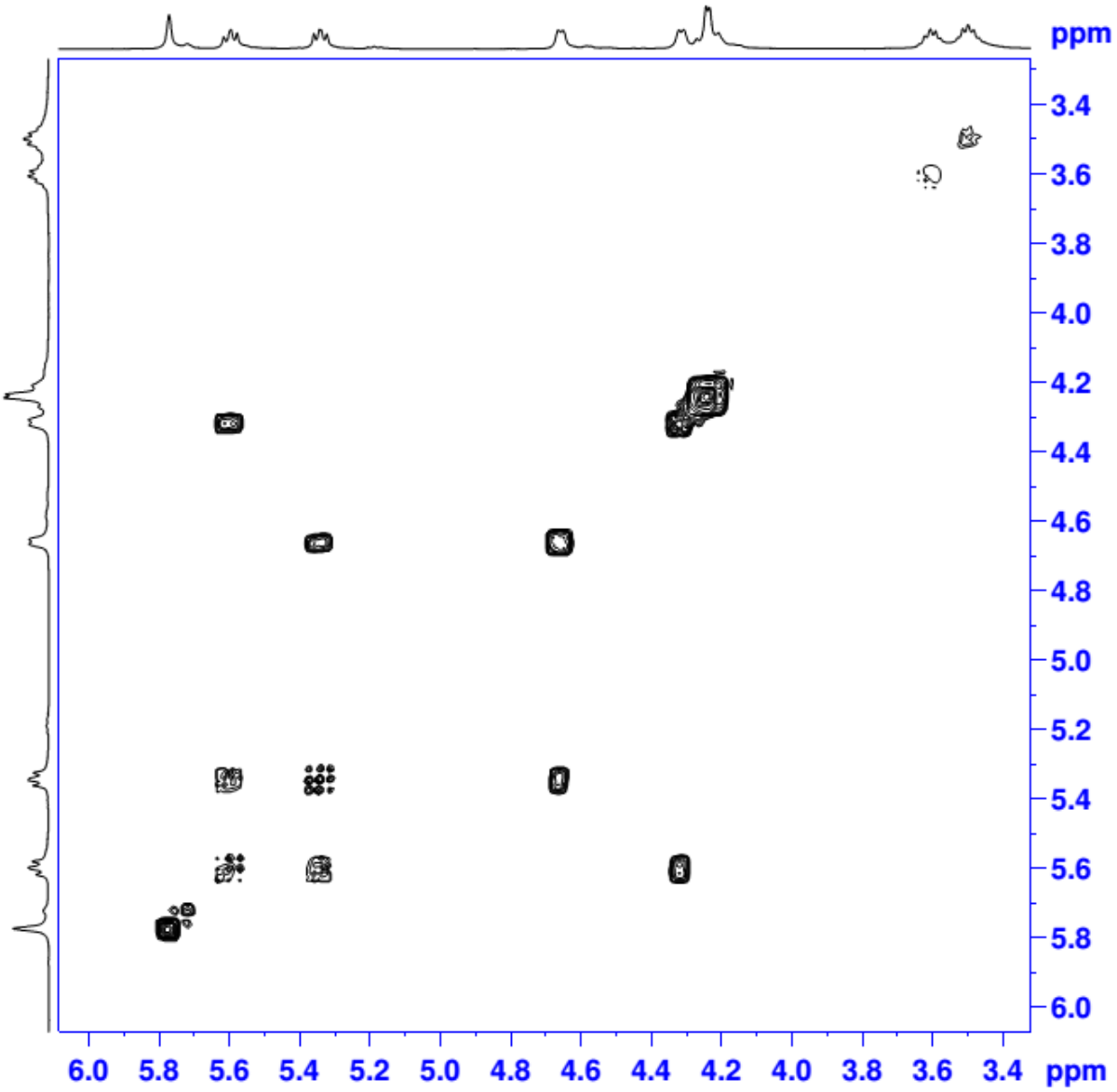
^{13}C NMR of **20** in $CDCl_3$



DEPT of **20**



COSY of **20**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4.8
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5.4
5.6
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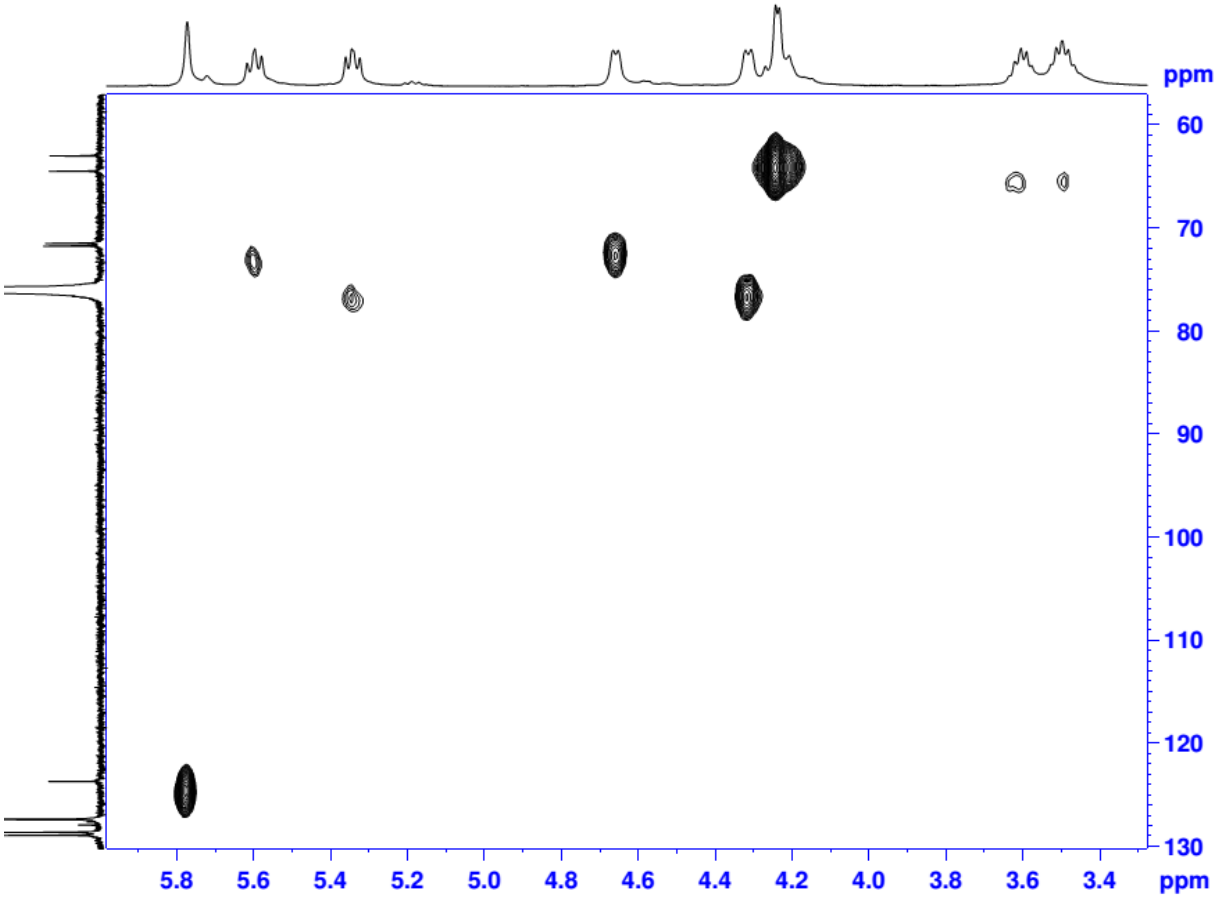
HMQC of **20**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4.2
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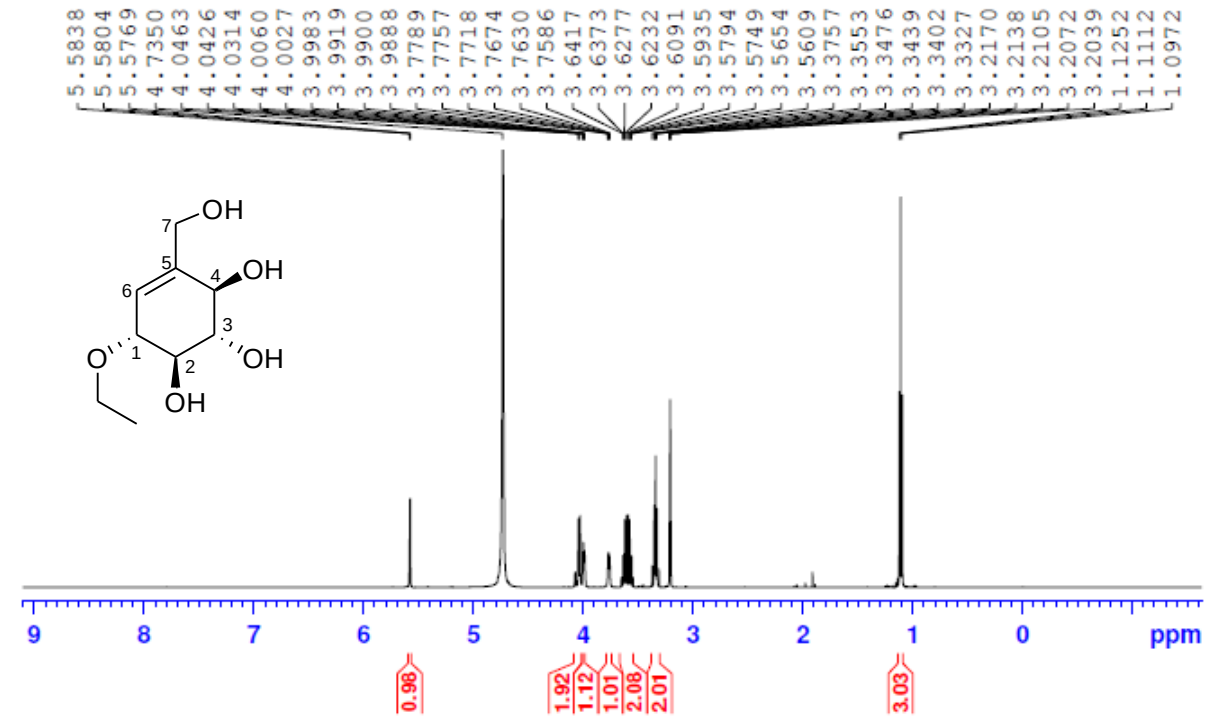
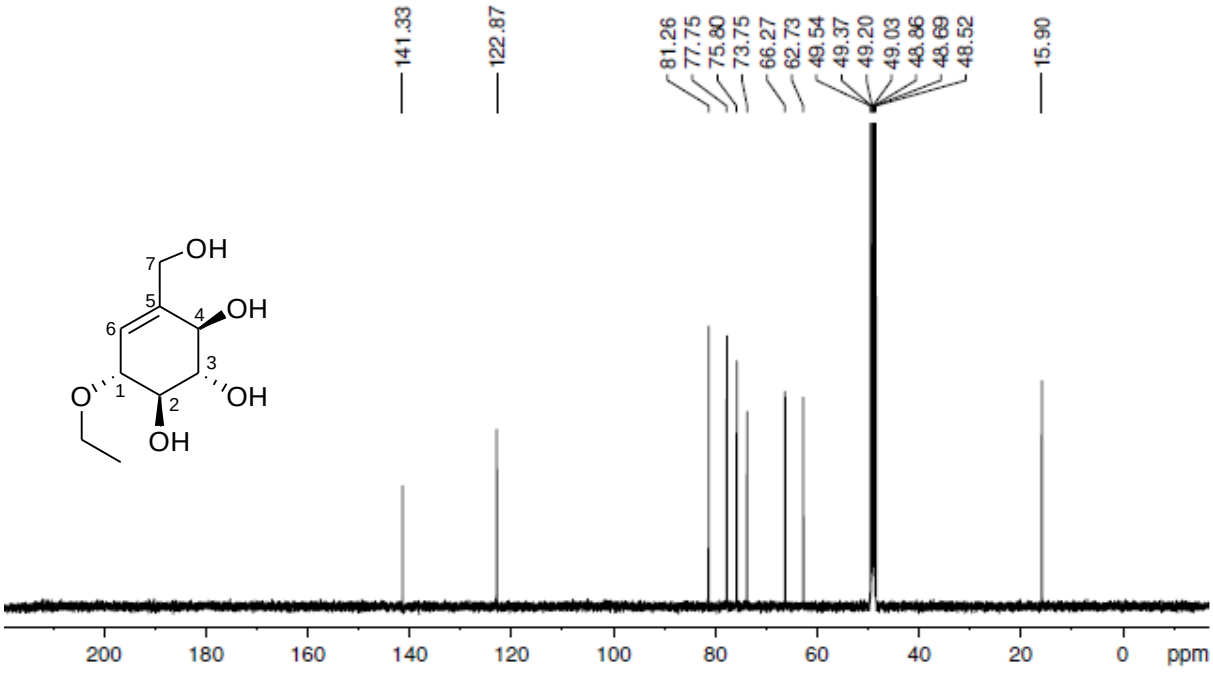
3.8
3.6
3.4
ppm

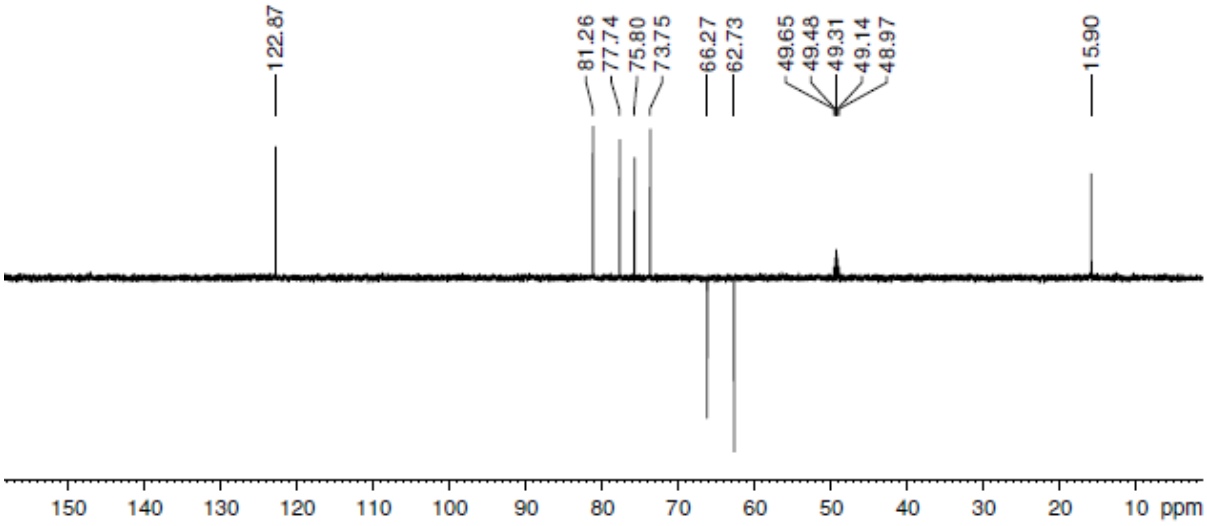
^{1}H NMR of **18** in $CDCl_3$



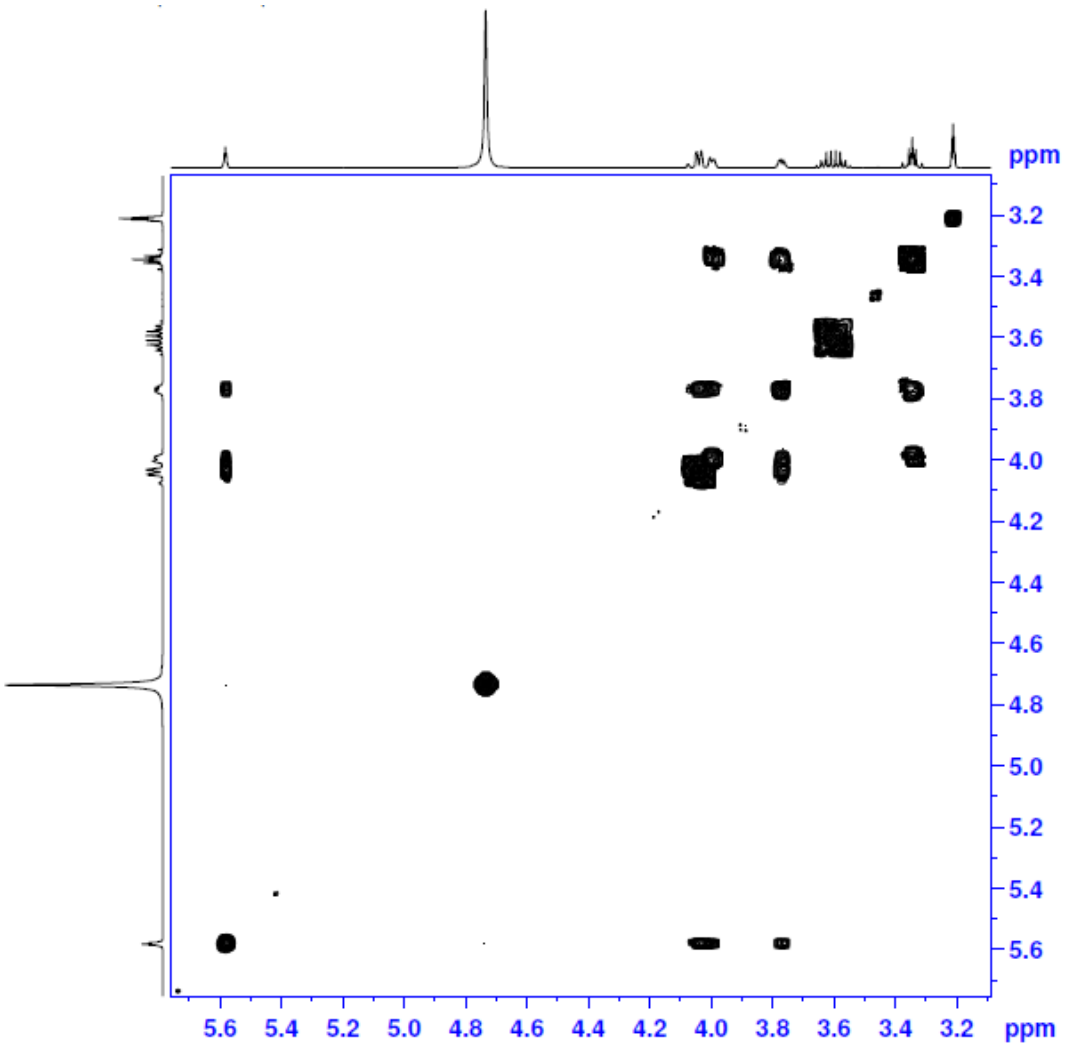
^{13}C NMR of **18** in $CDCl_3$



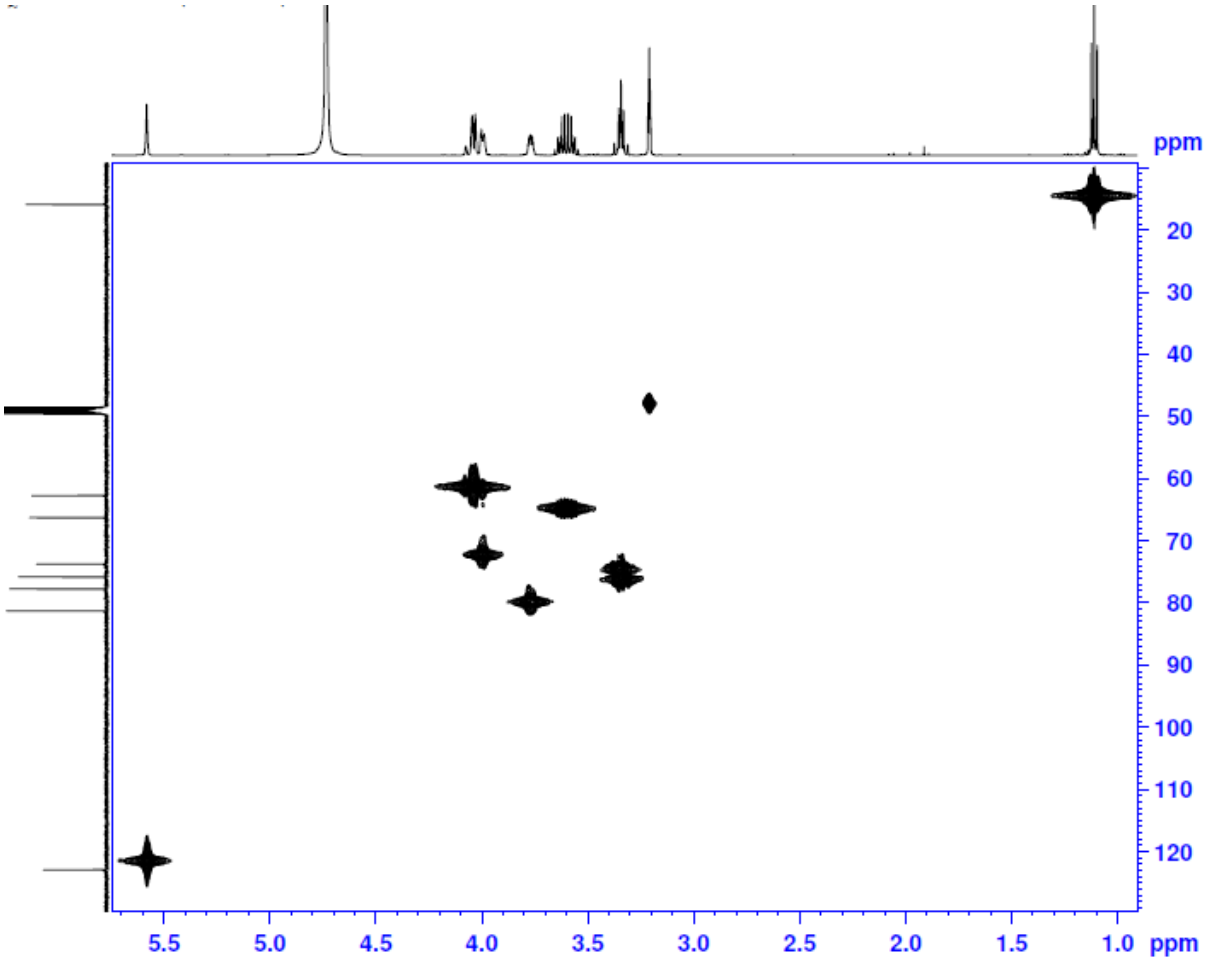
DEPT of **18**



COSY of **18**



HMQC of **18**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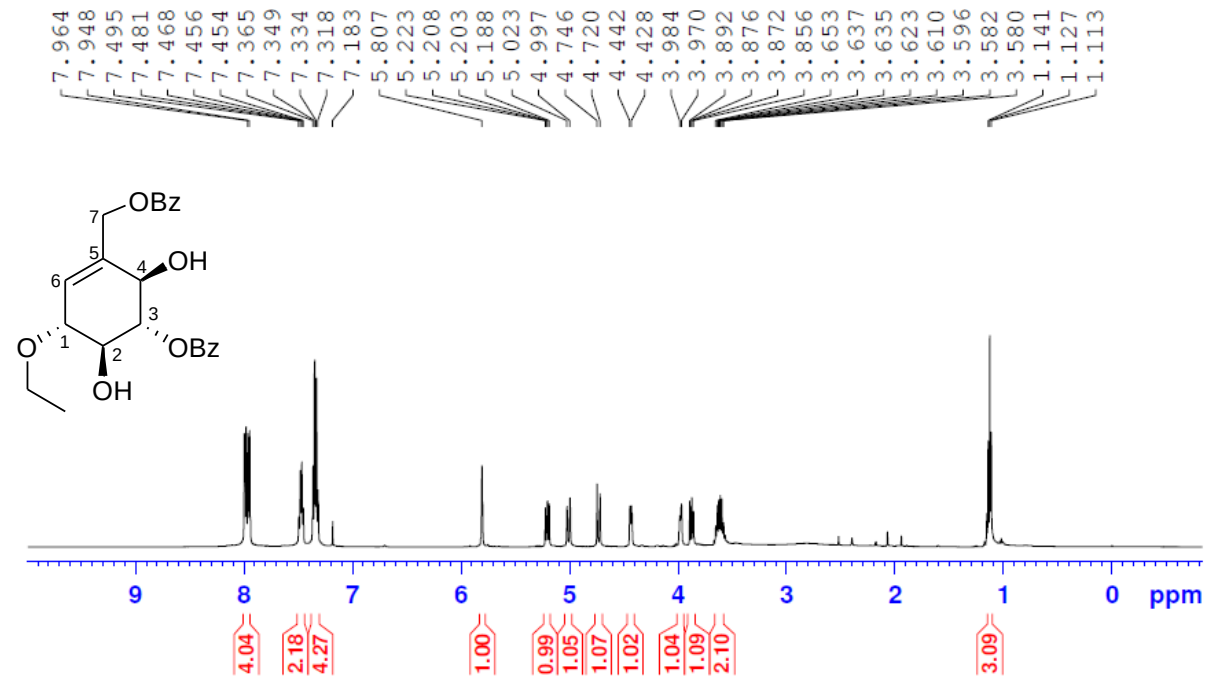
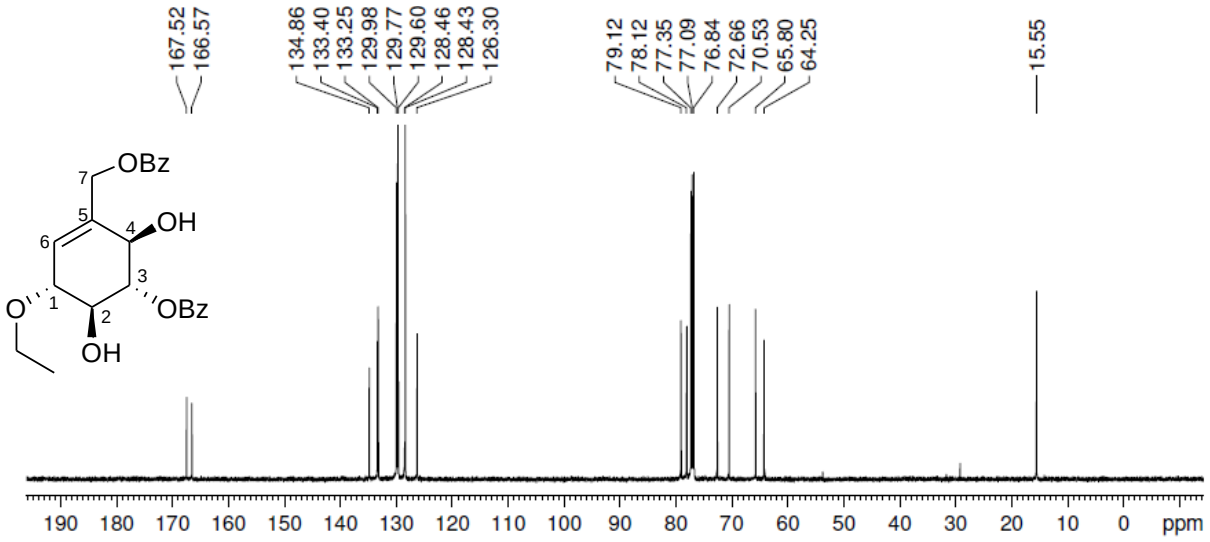
2.5
2.0
1.5
1.0
ppm

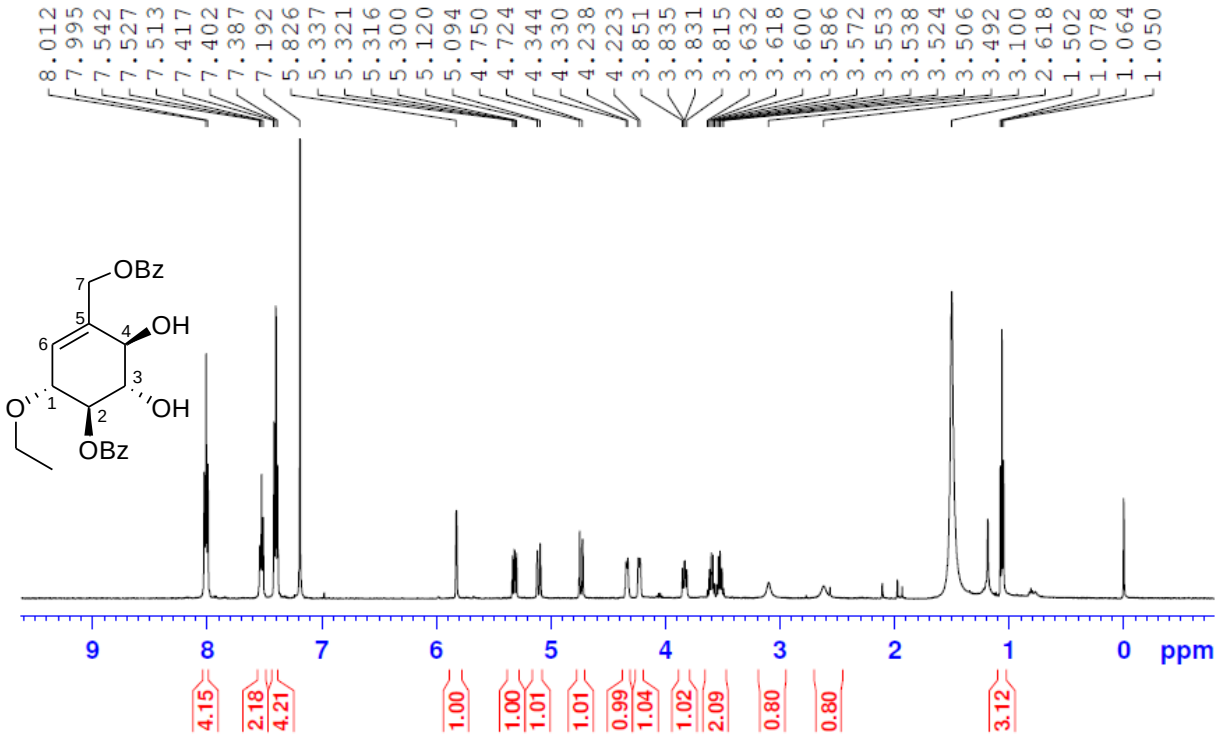
^{1}H NMR of uvacalol I (**3**) in $CDCl_3$



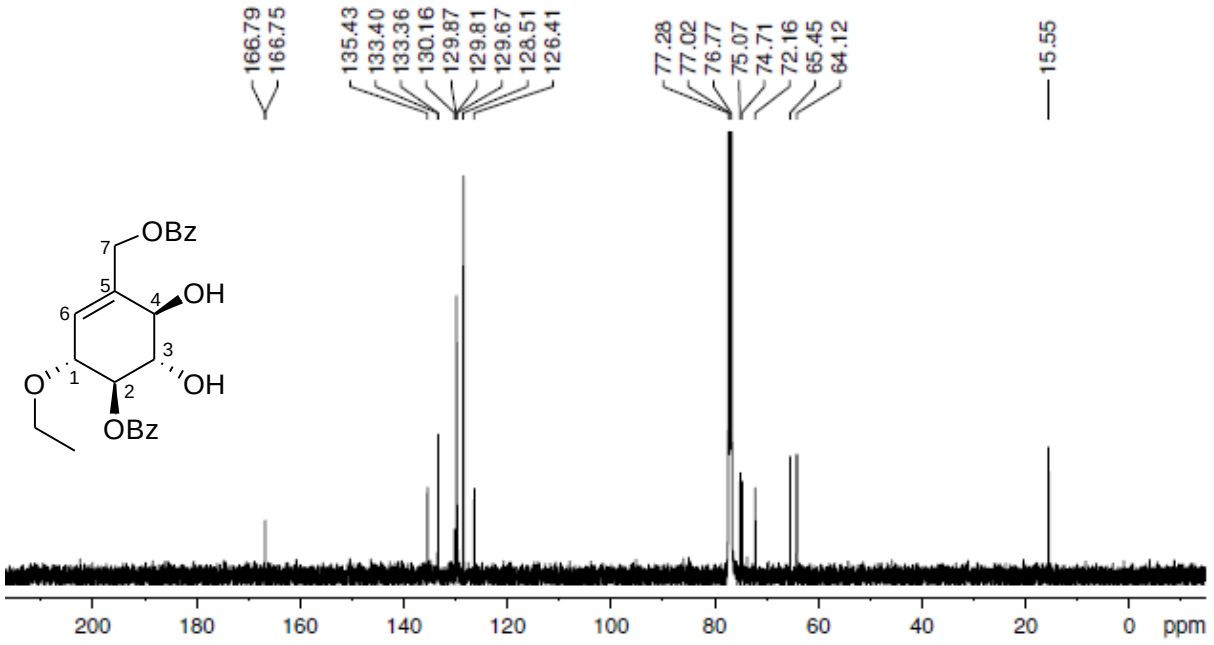
^{13}C NMR of uvacalol I (**3**) in $CDCl_3$



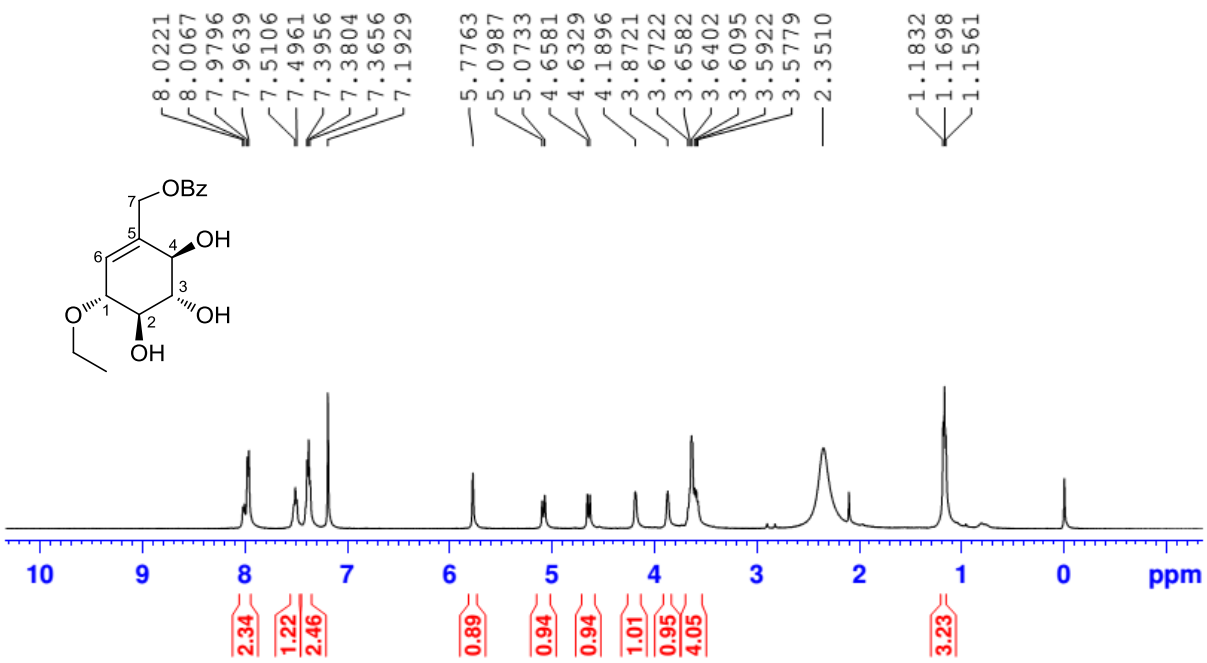
^{1}H NMR of uvacalol J (**4**) in $CDCl_3$



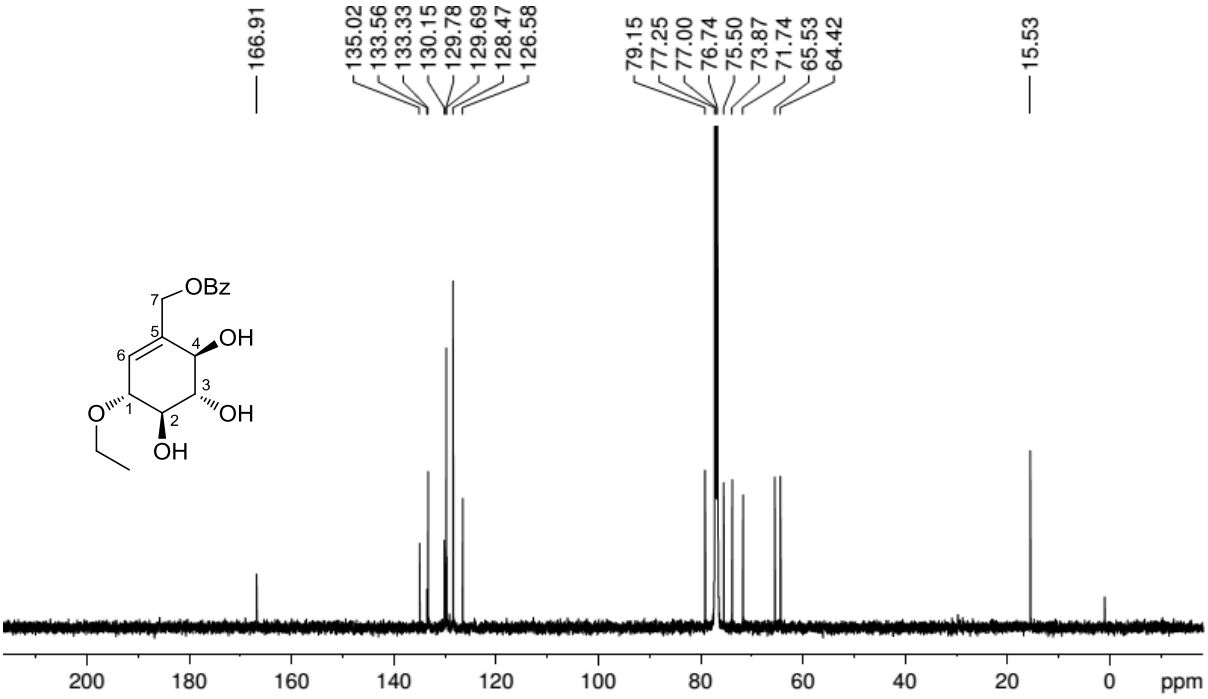
^{13}C NMR of uvacalol J (**4**) in $CDCl_3$



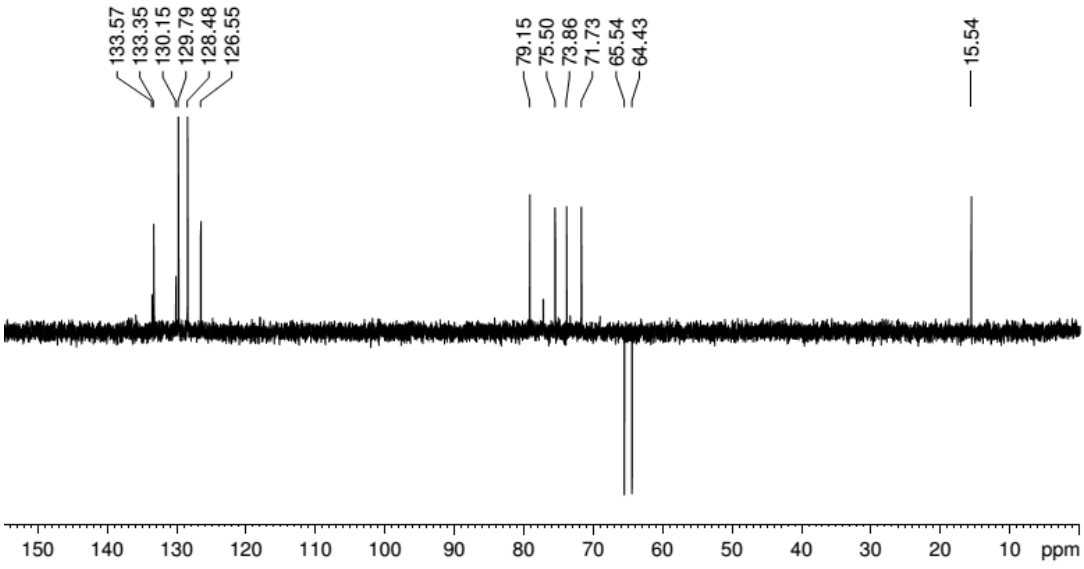
^{1}H NMR of **21** in $CDCl_3$



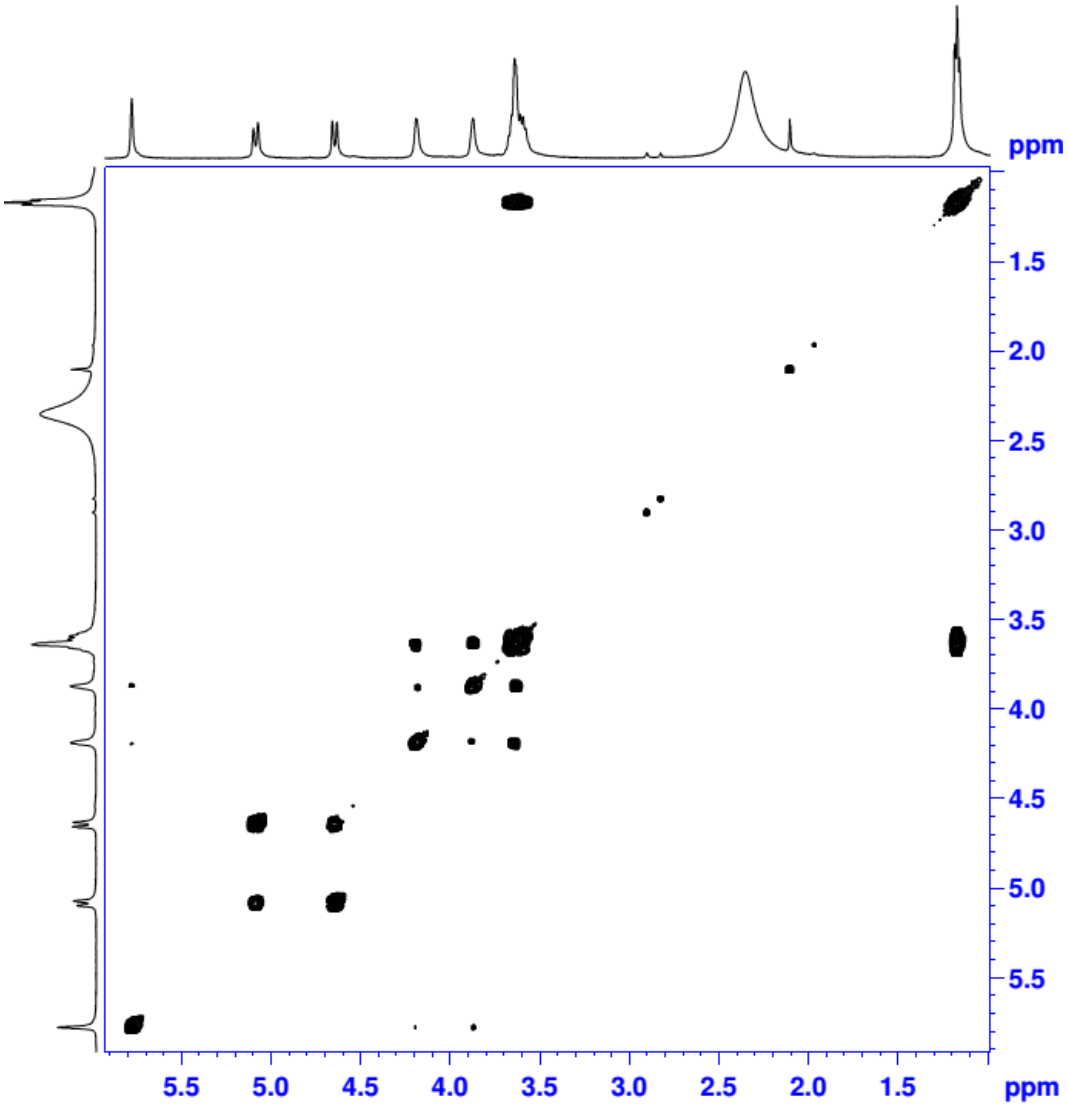
^{13}C NMR of **21** in CDCl3



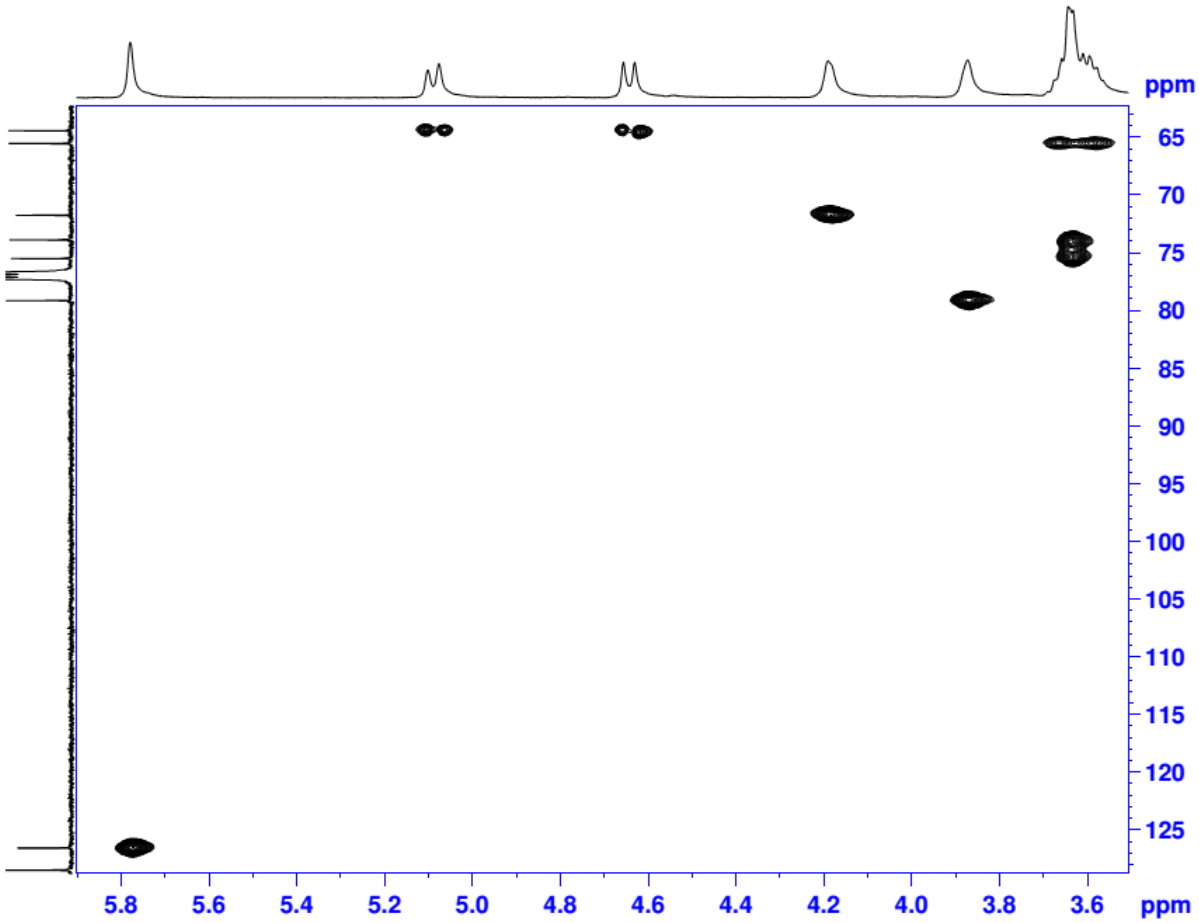
DEPT of **21**



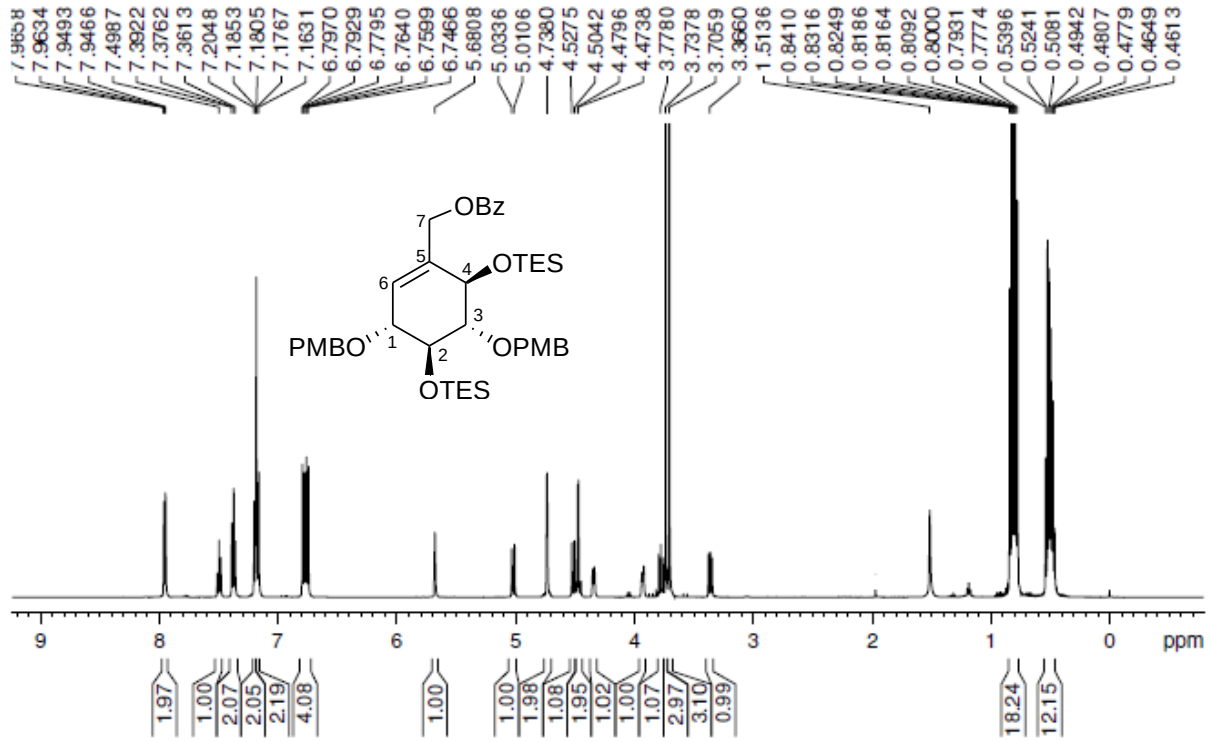
COSY of **21**



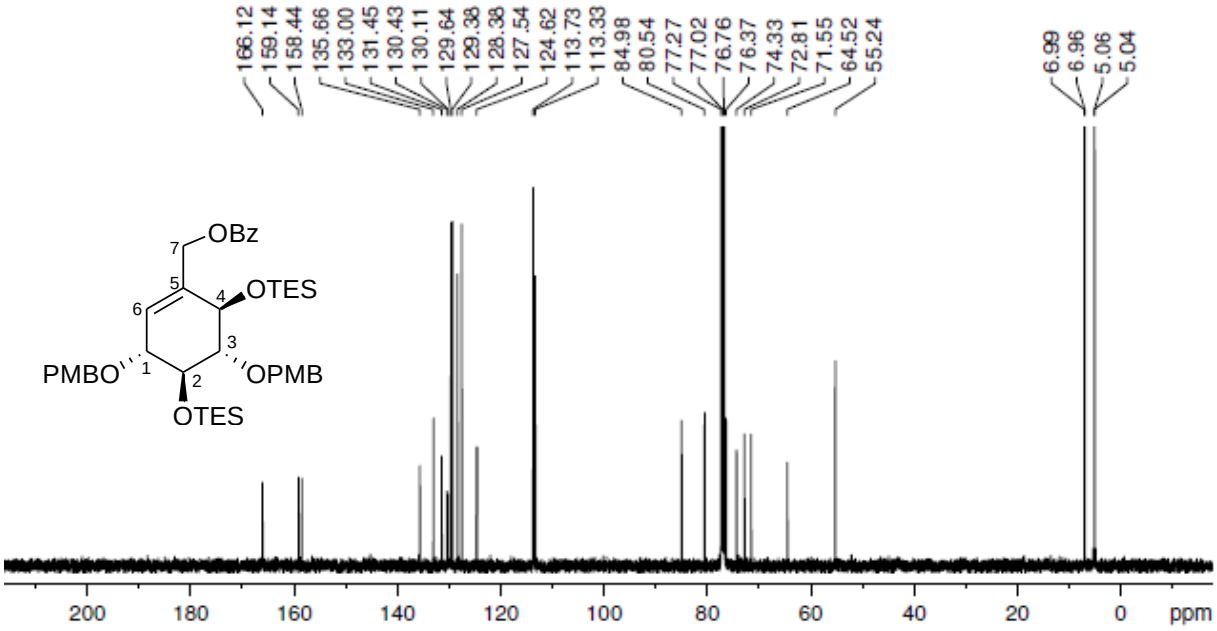
HMQC of **21**


ppm
65
70
75
80
85
90
95
100
105
110
115
120
125
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
3.8
3.6
ppm

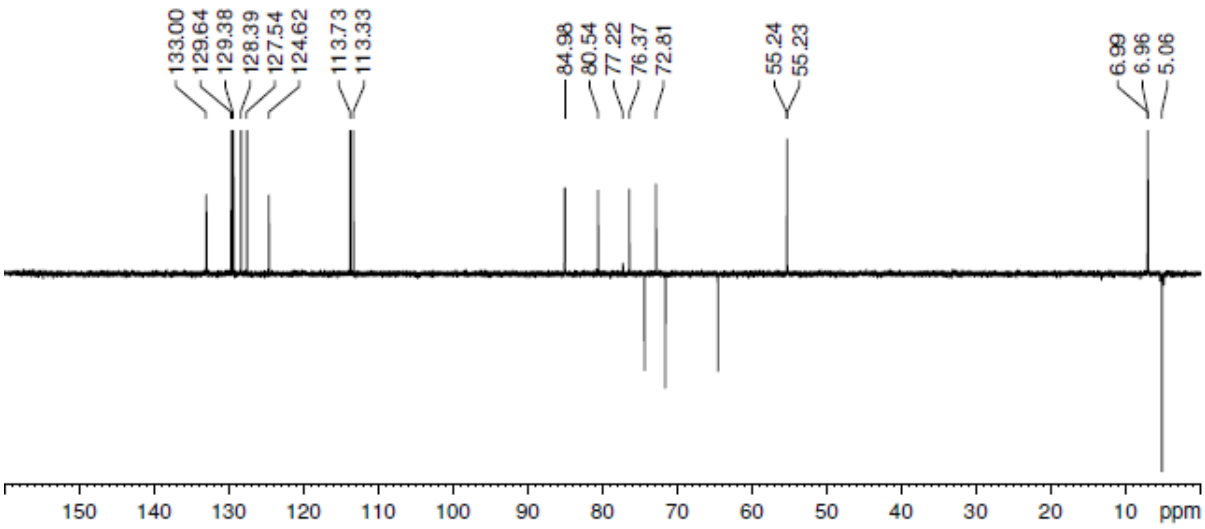
^{1}H NMR of **23** in $CDCl_3$



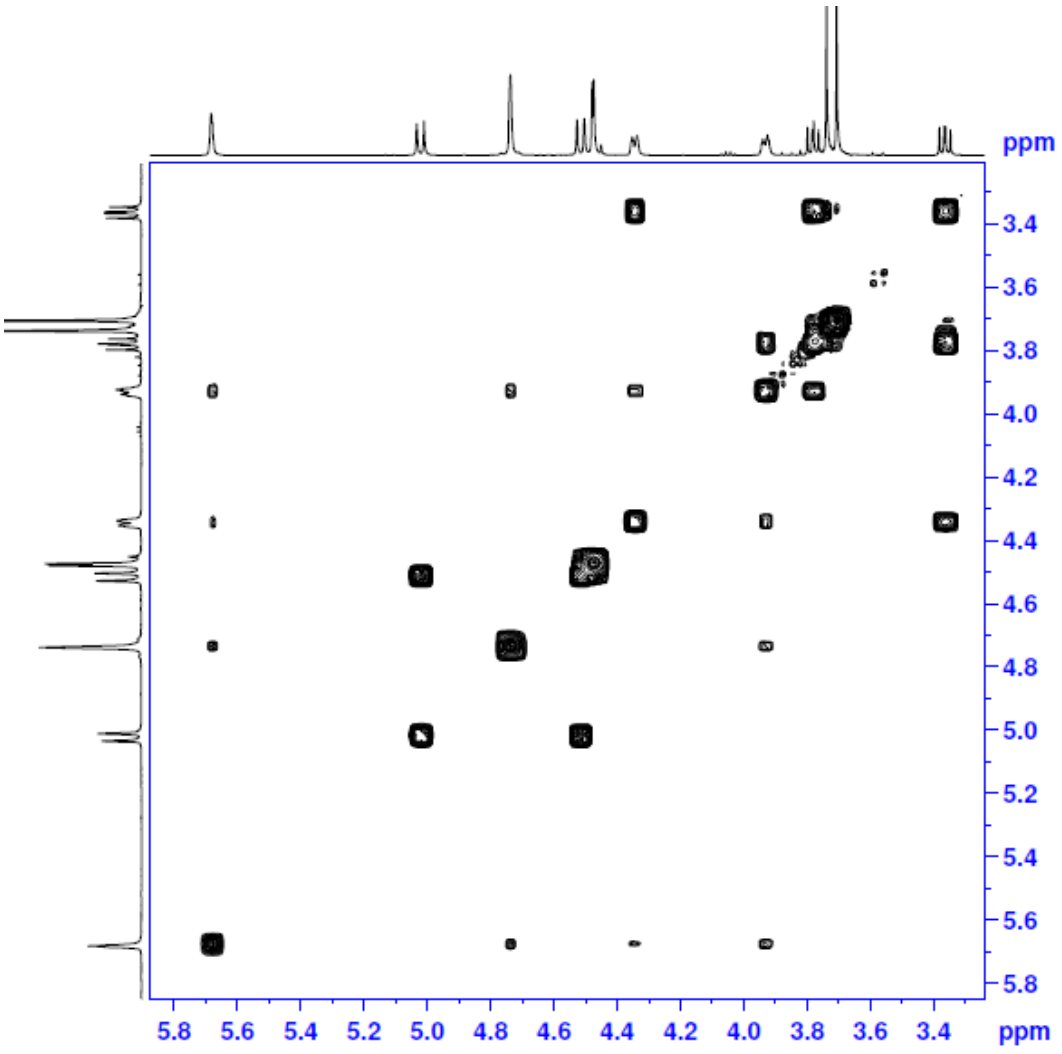
^{13}C NMR of **23** in $CDCl_3$



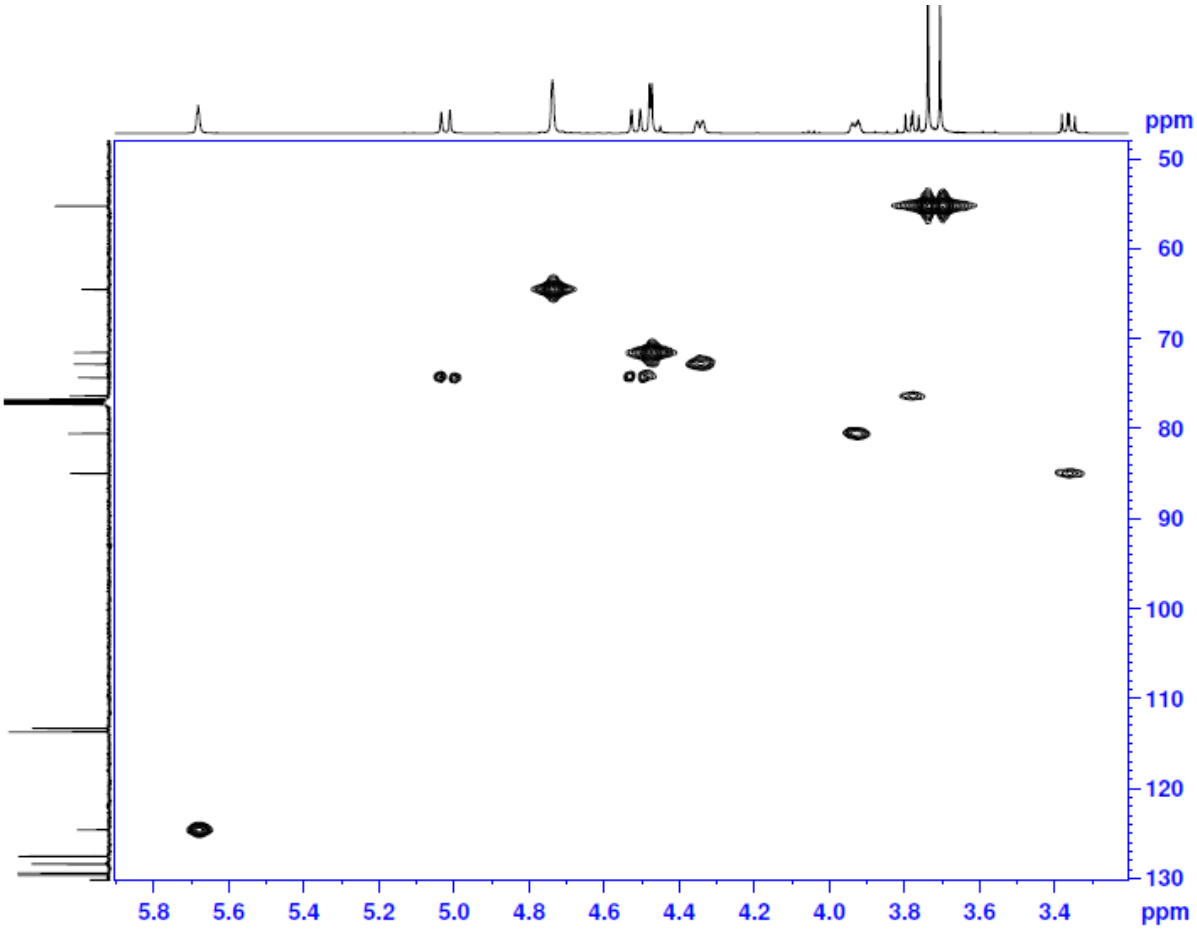
DEPT of **23**



COSY of **23**



HMQC of **23**


ppm
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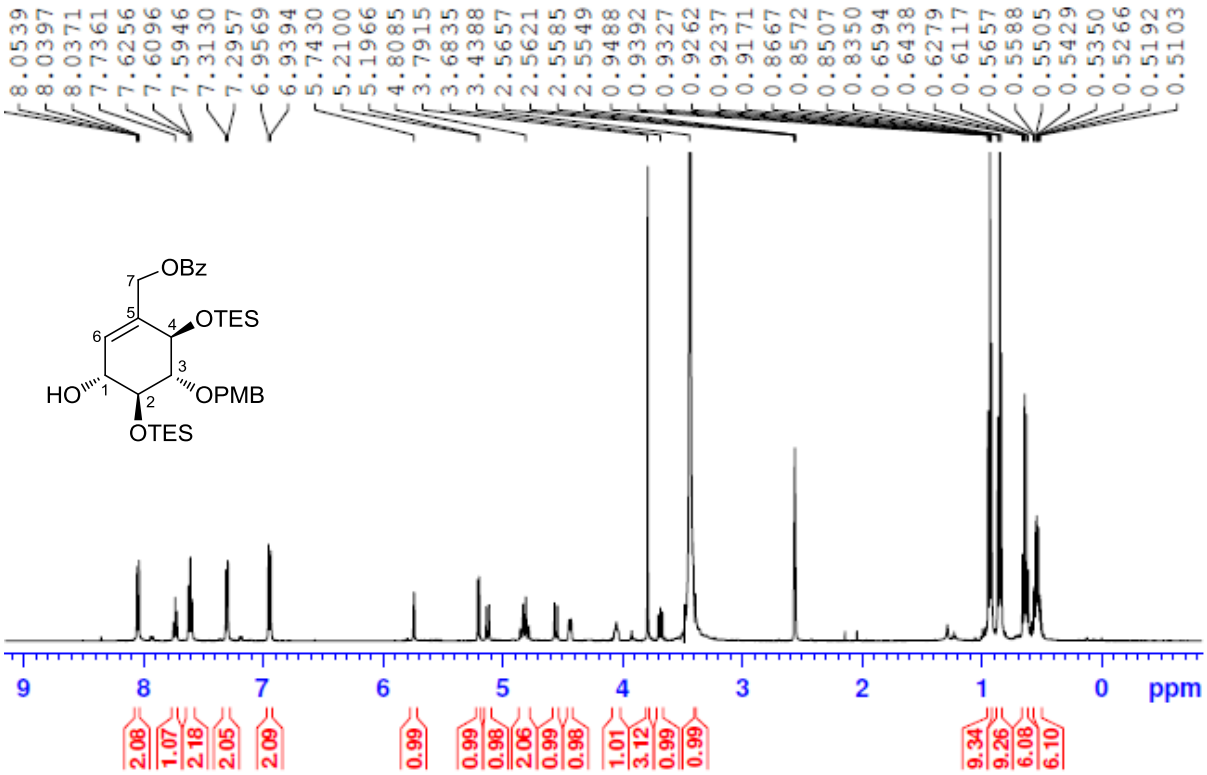
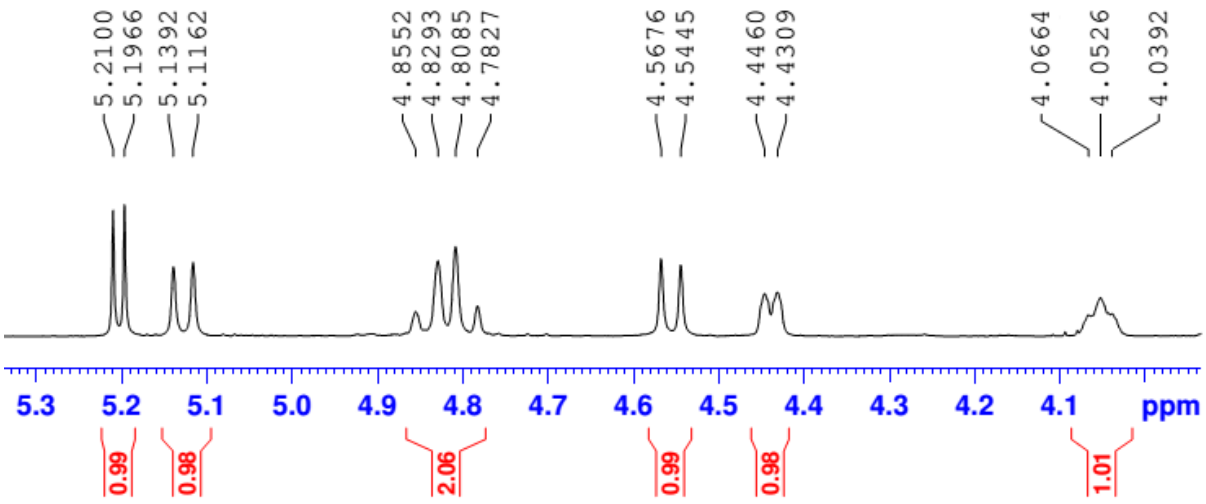
70
80
90
100
110
120
130
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
3.8
3.6
3.4
ppm

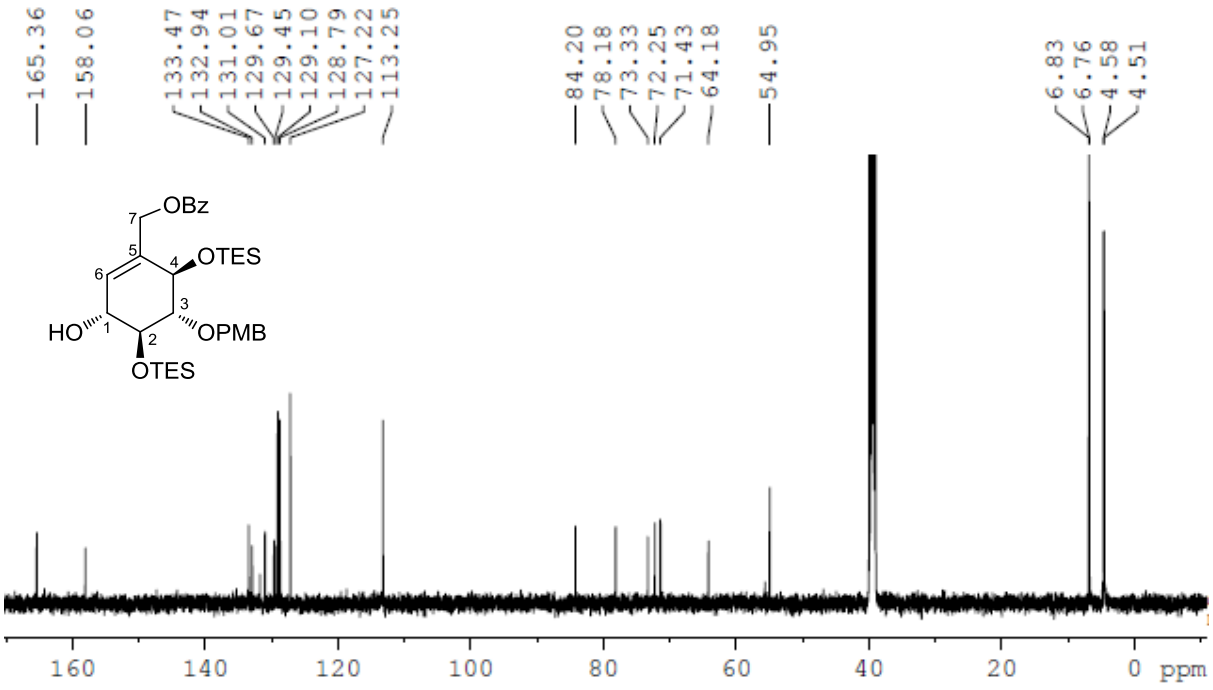
^{1}H NMR of **24** in DMSO-d_6



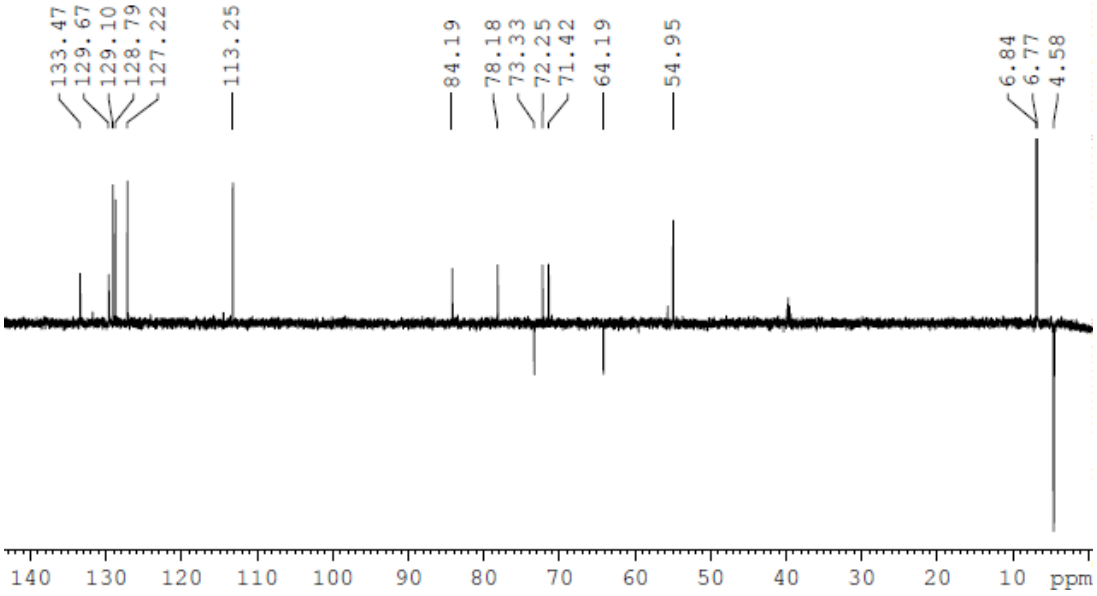
^{1}H NMR of **24** in DMSO-d_6 (zoom)



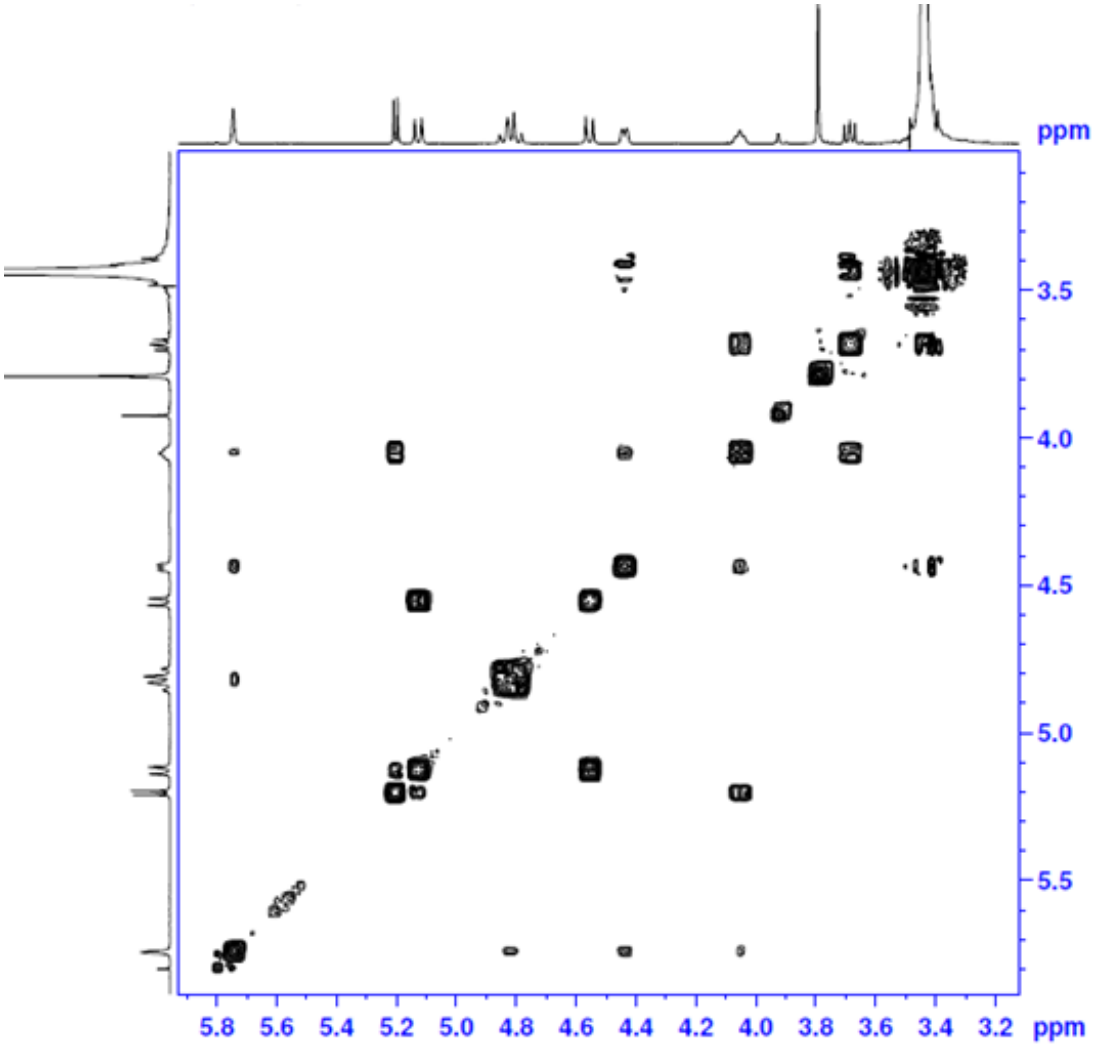
^{13}C NMR of **24** in DMSO-d_6



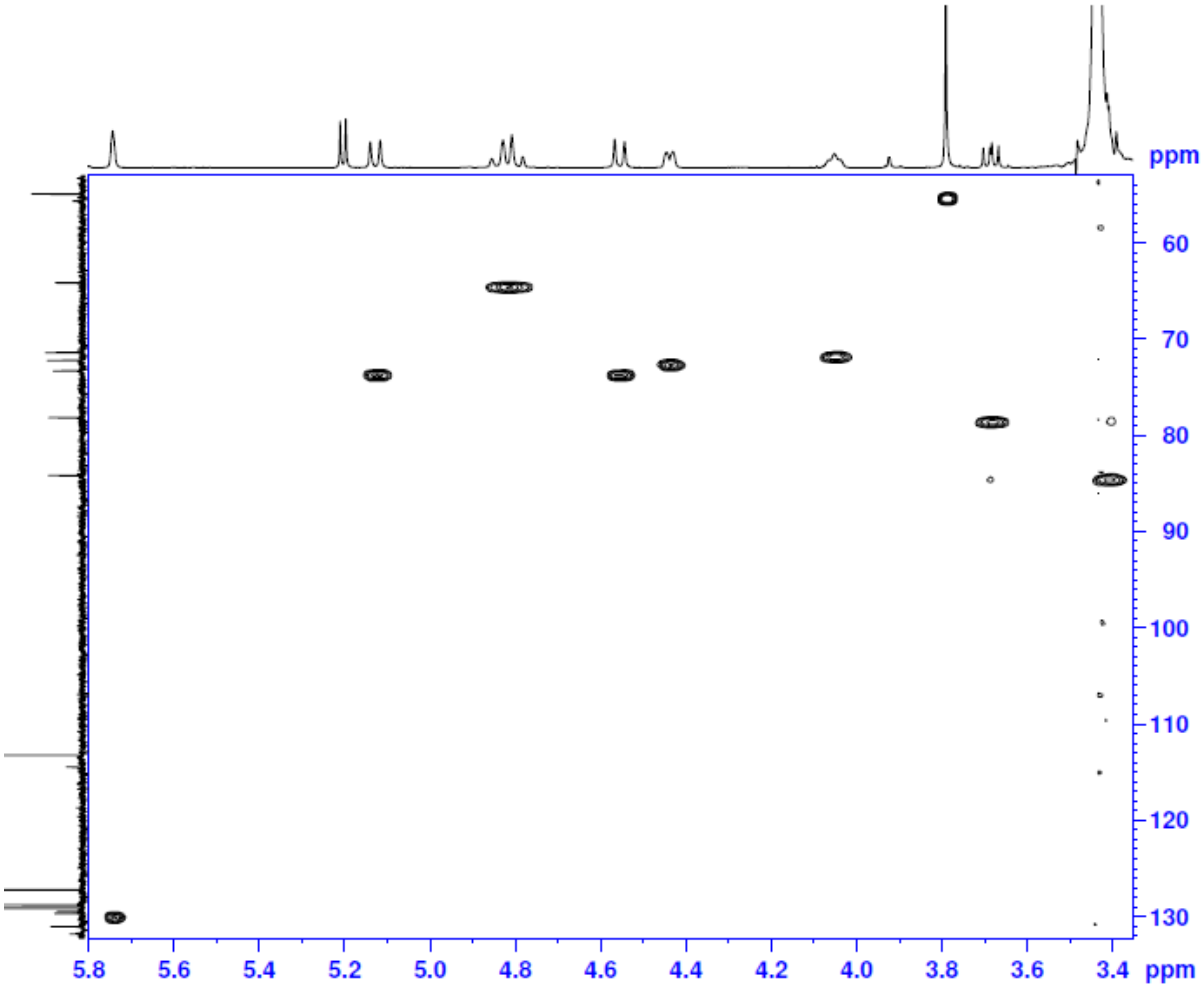
DEPT of **24**



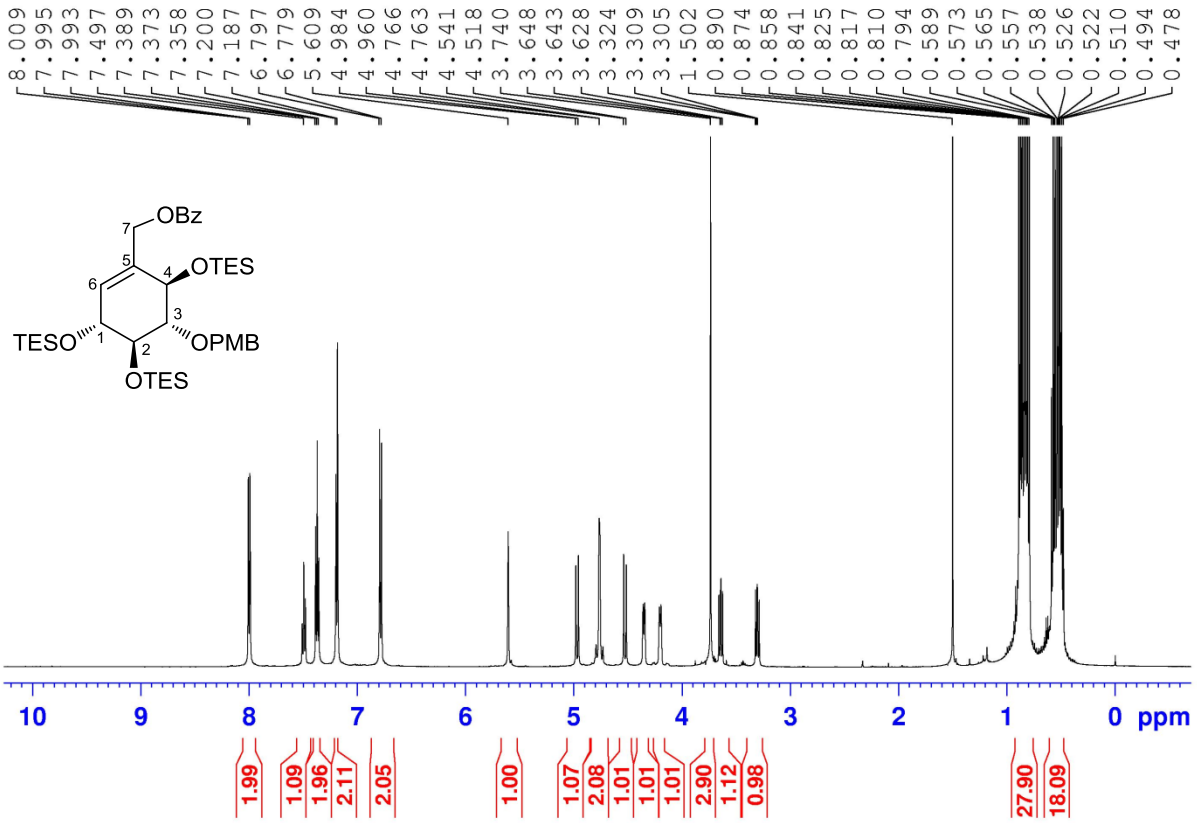
COSY of **24**



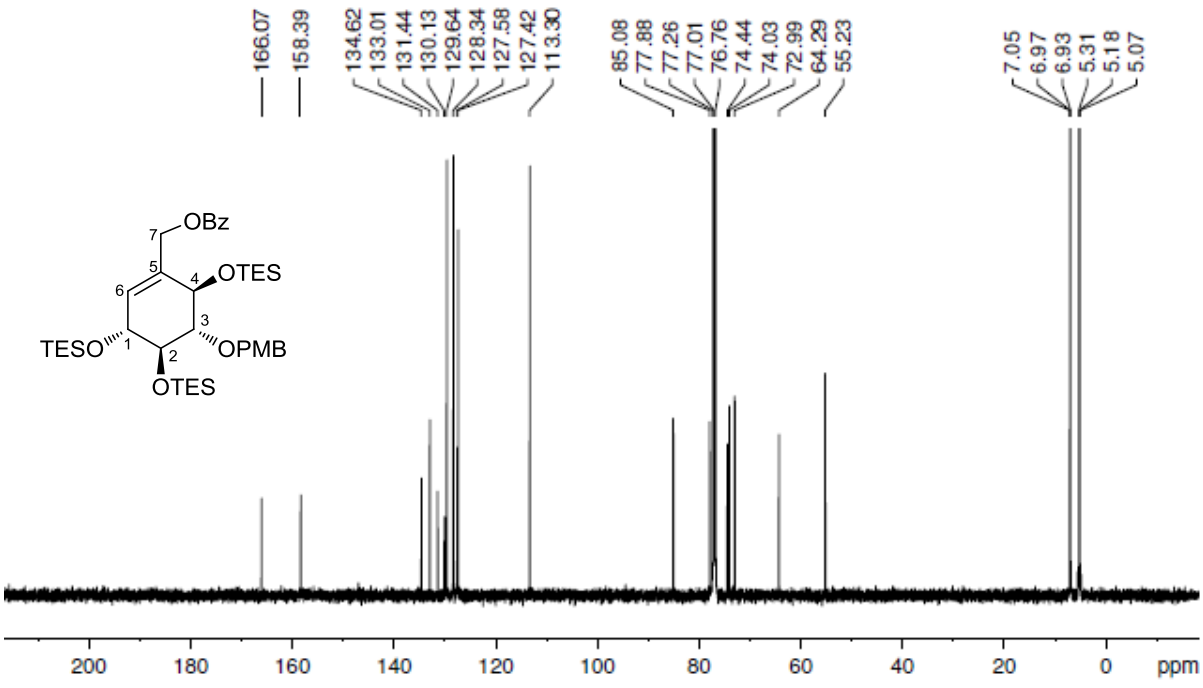
HMQC of **24**


ppm
60
70
80
90
100
110
120
130
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
3.8
3.6
3.4
ppm

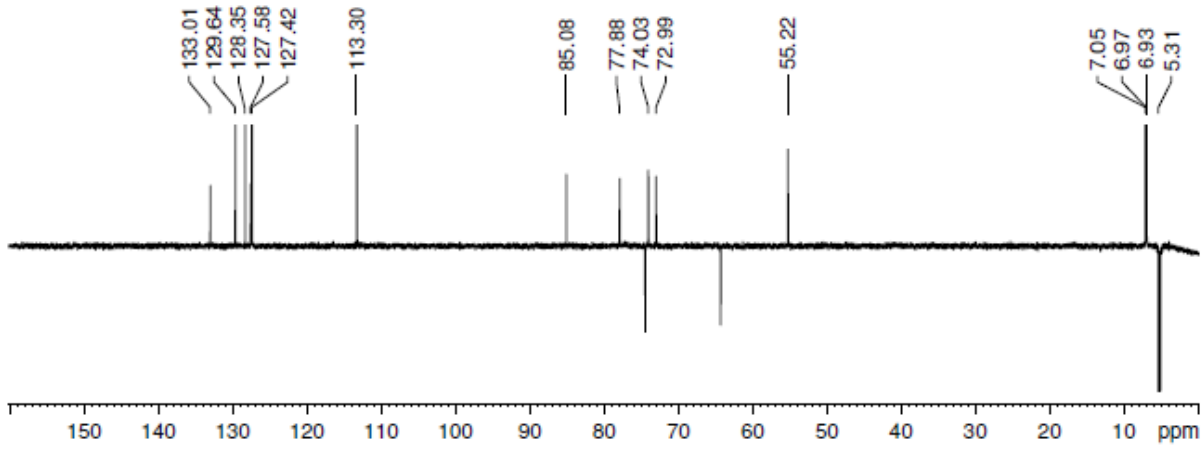
^{1}H NMR of **25** in $CDCl_3$



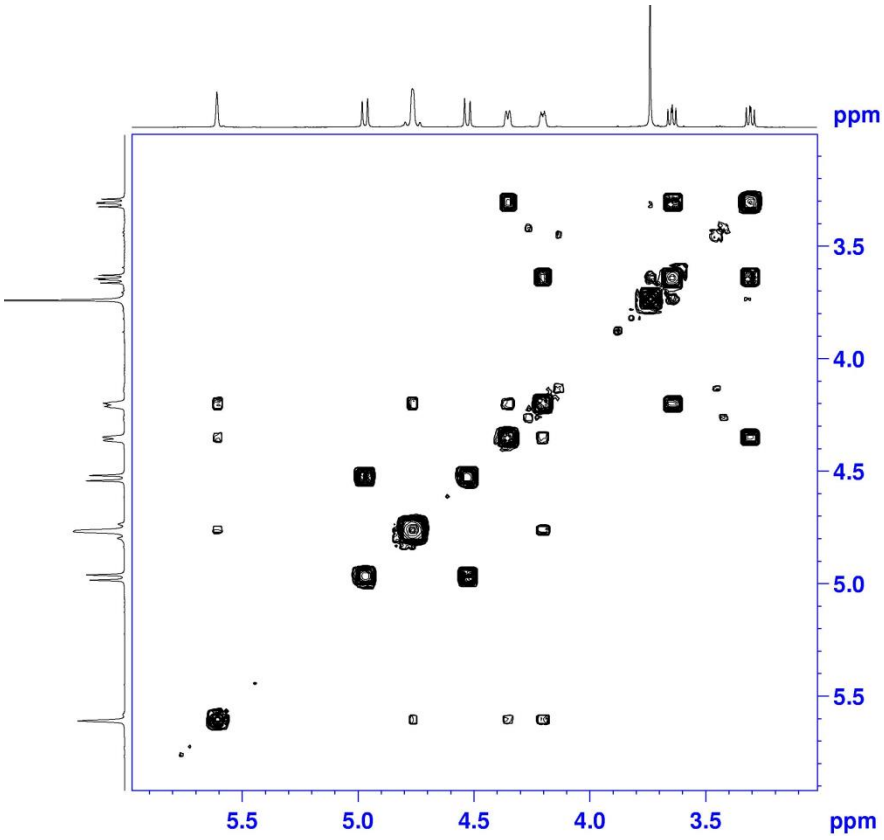
^{1}H NMR of **25** in $CDCl_3$



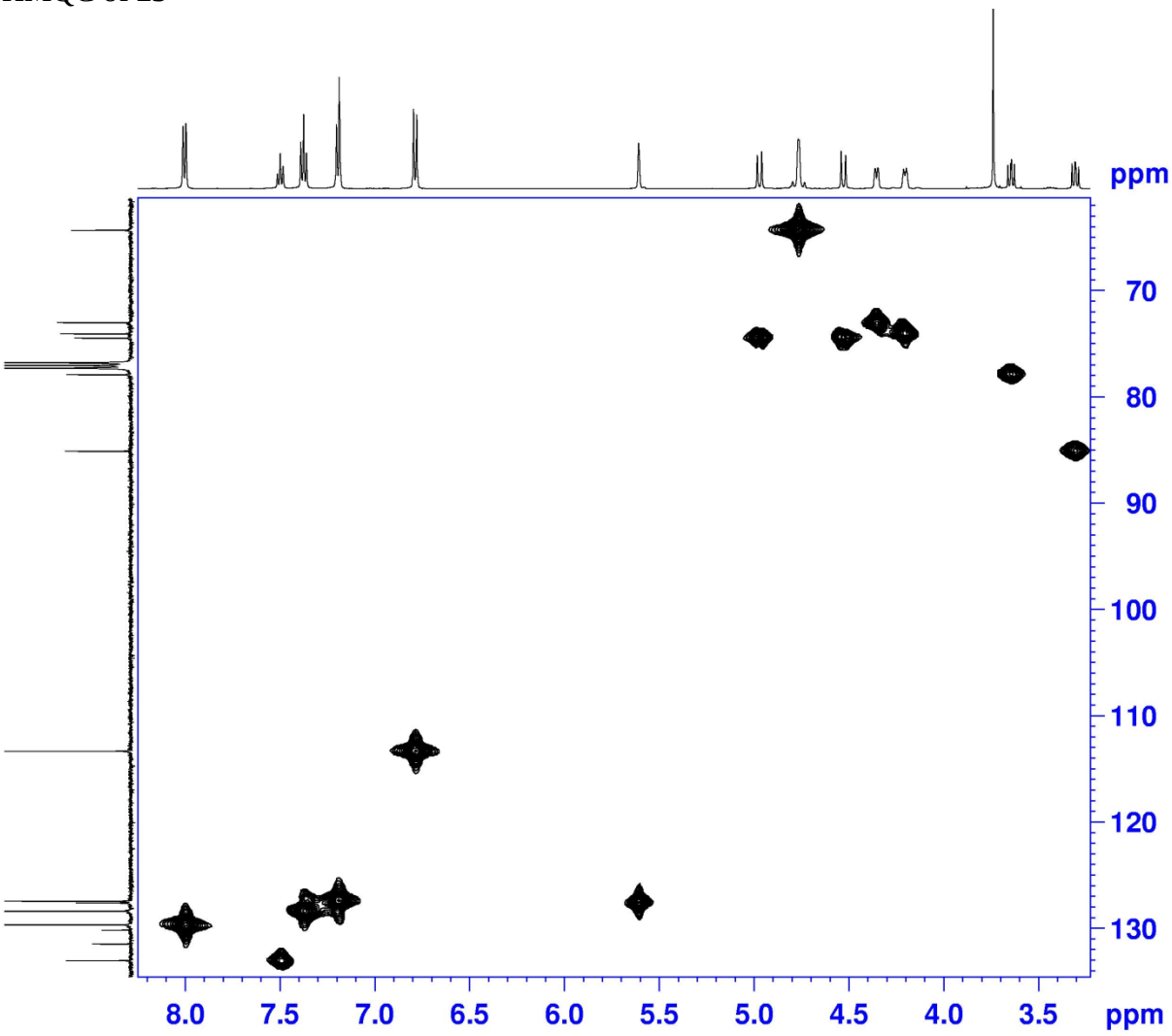
DEPT of **25**



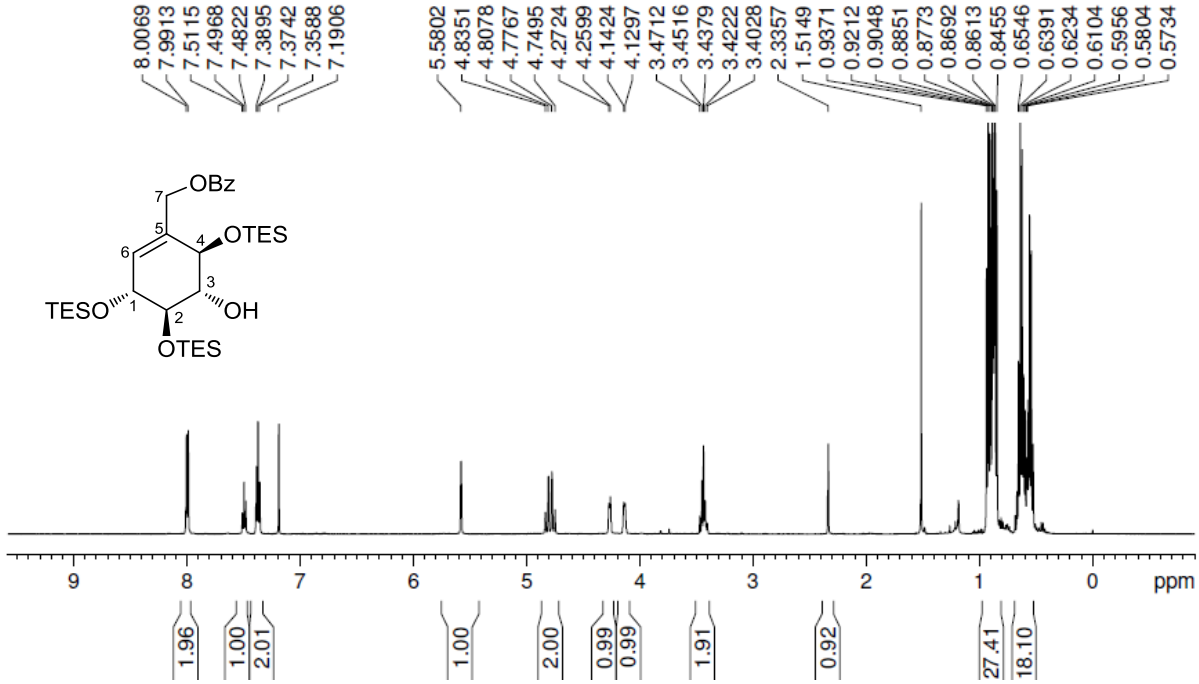
COSY of **25**



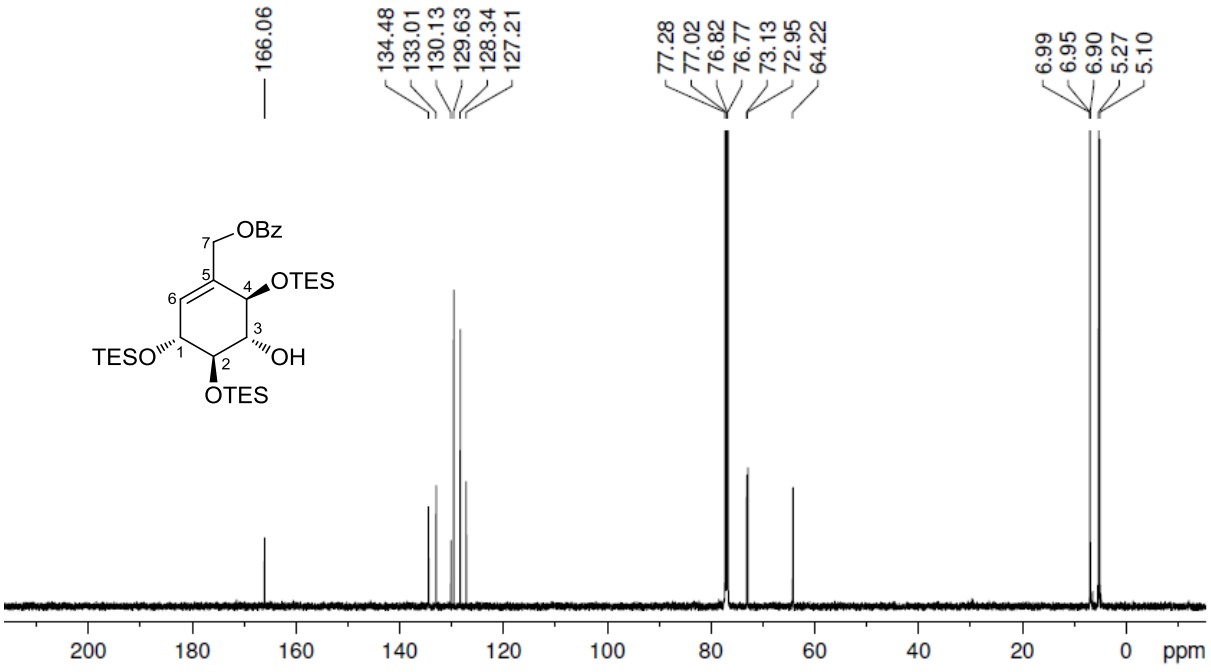
HMQC of **25**



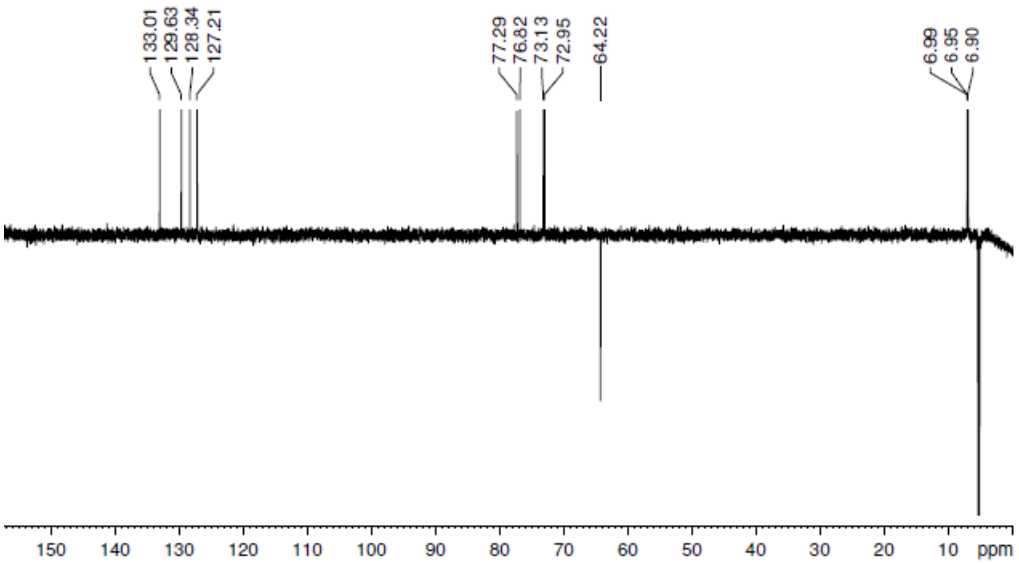
^{1}H NMR of **26** in $CDCl_3$



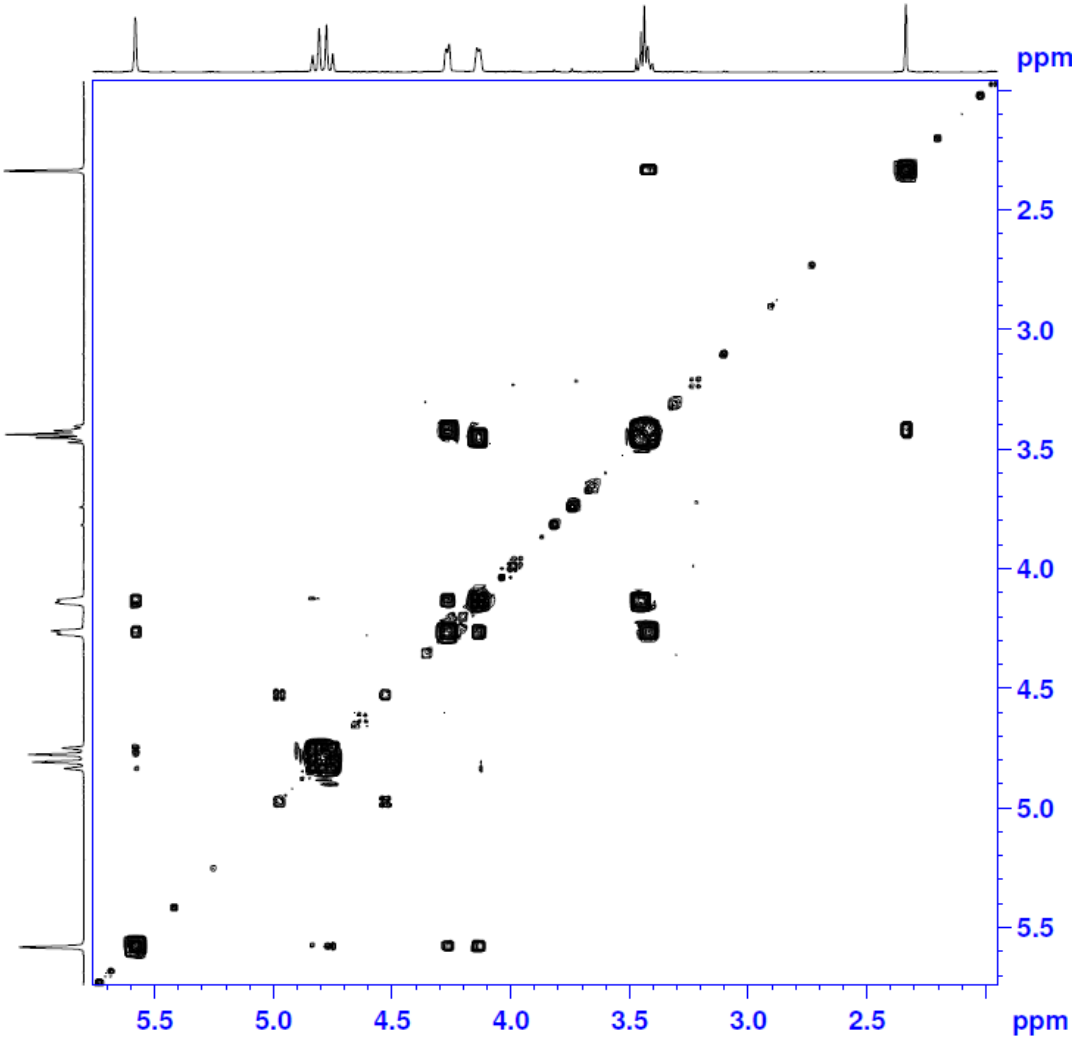
^{13}C NMR of **26** in $CDCl_3$



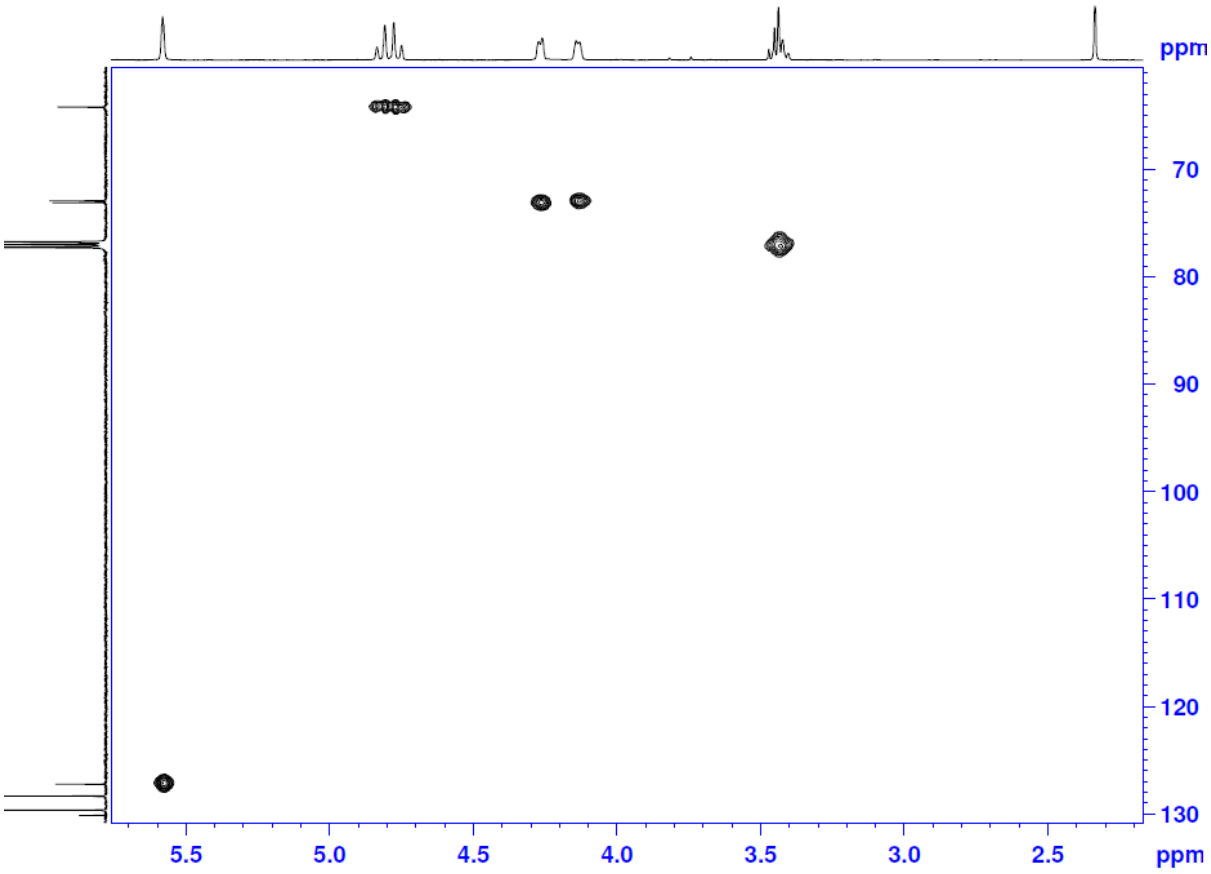
DEPT of **26**



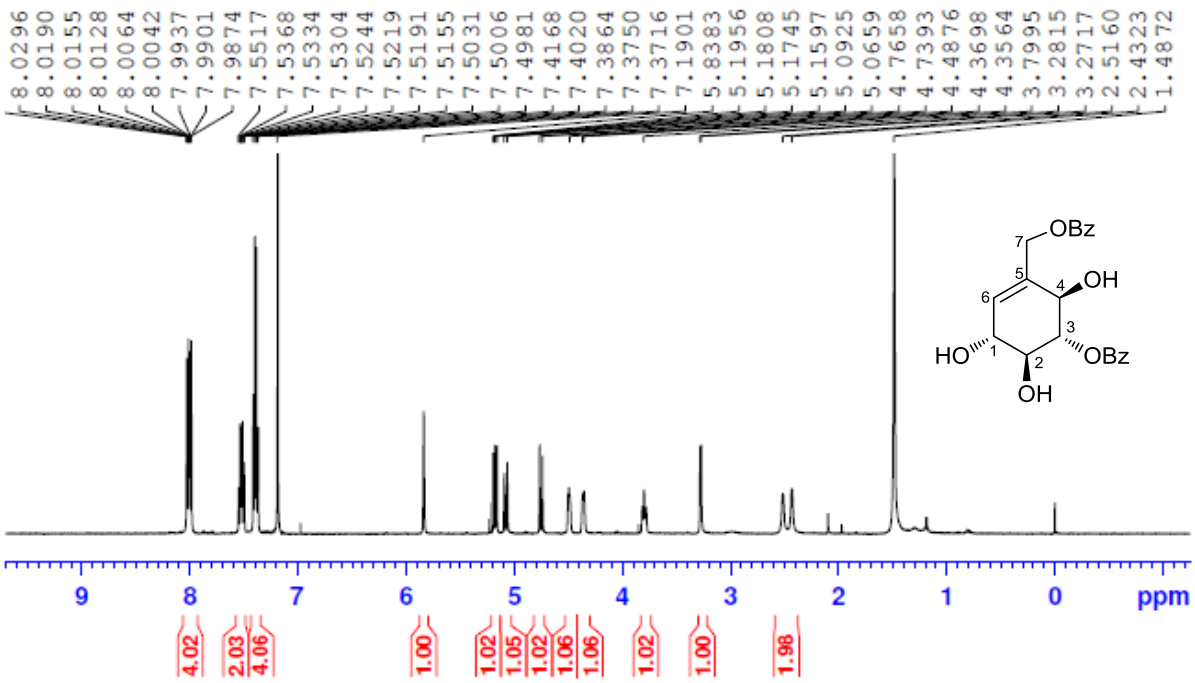
COSY of **26**



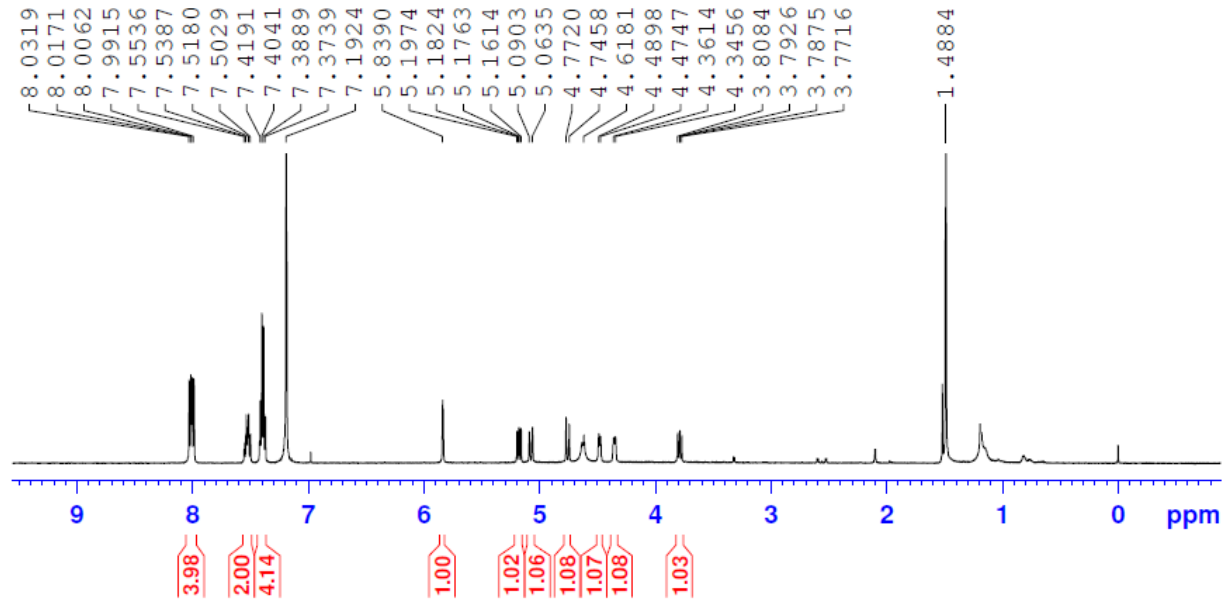
HMQC of **26**



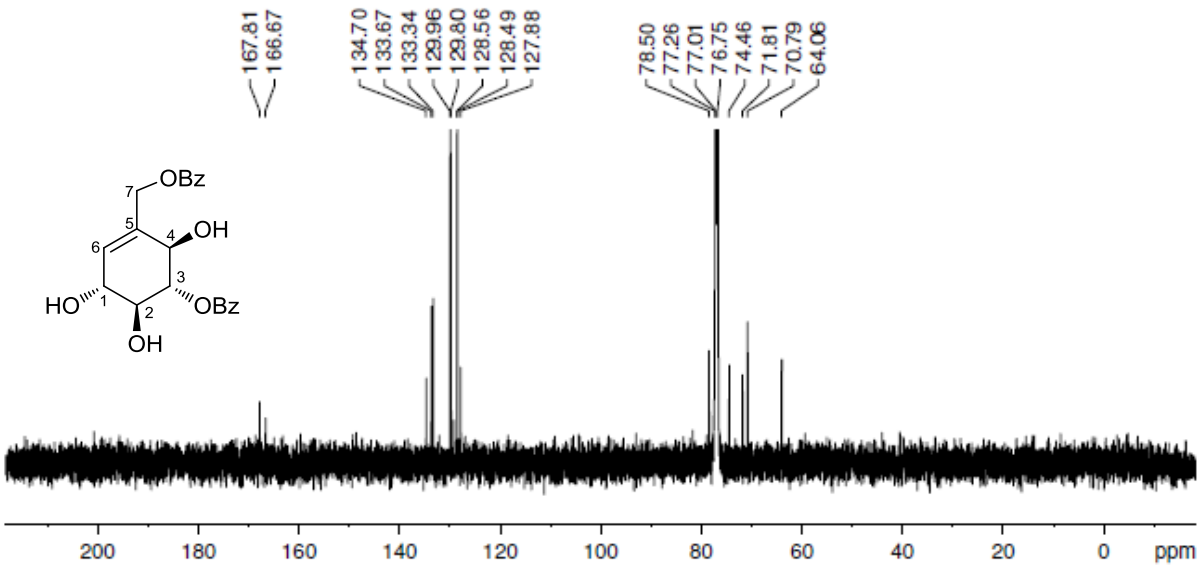
^{1}H NMR of uvacalol K (**5**) in $CDCl_3$



^{1}H NMR of uvacalol K (**5**) in $CDCl_3$ (D_2O exchange)



^{13}C NMR of uvacalol K (**5**) in $CDCl_3$



COSY of **5**