

Supplementary Material

Regioselective photochemical [2+2]-cycloadditions of chromenones to substituted alkynes

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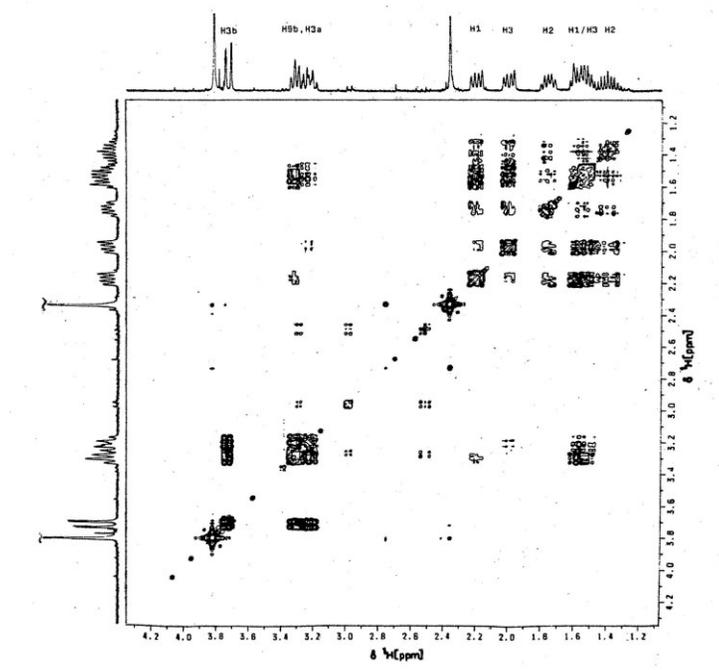
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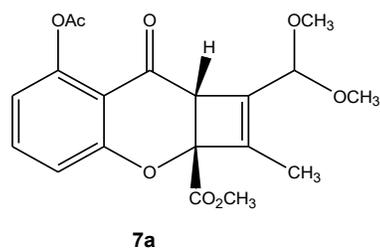
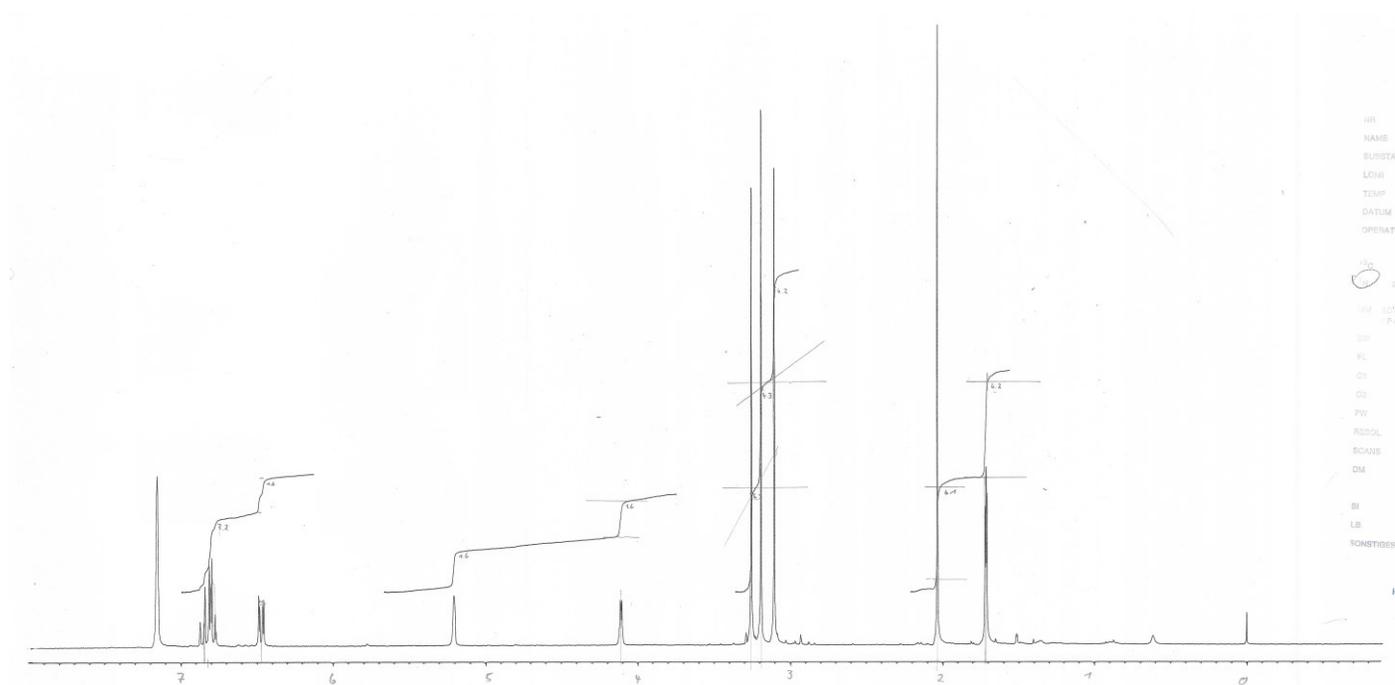
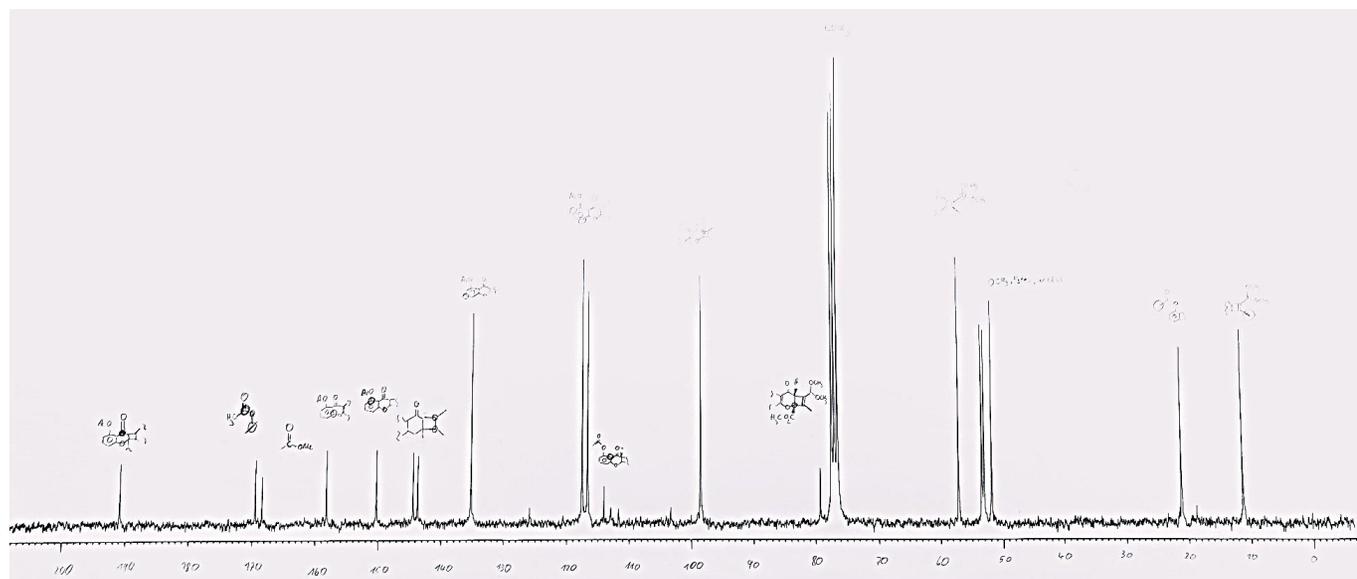
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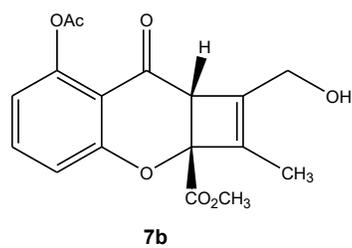
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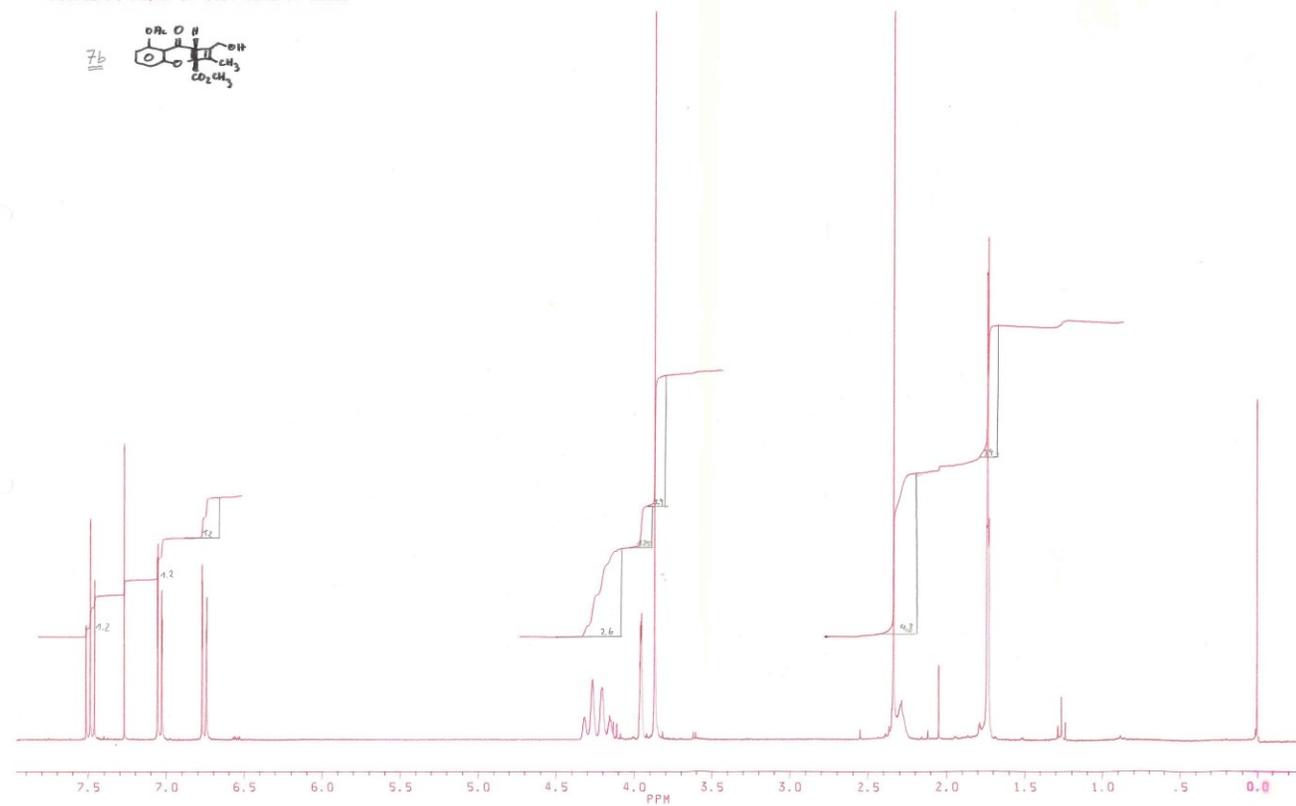
H,H-COSY (CDCl₃)

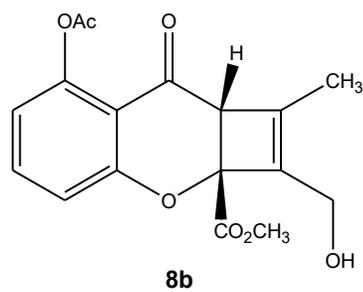
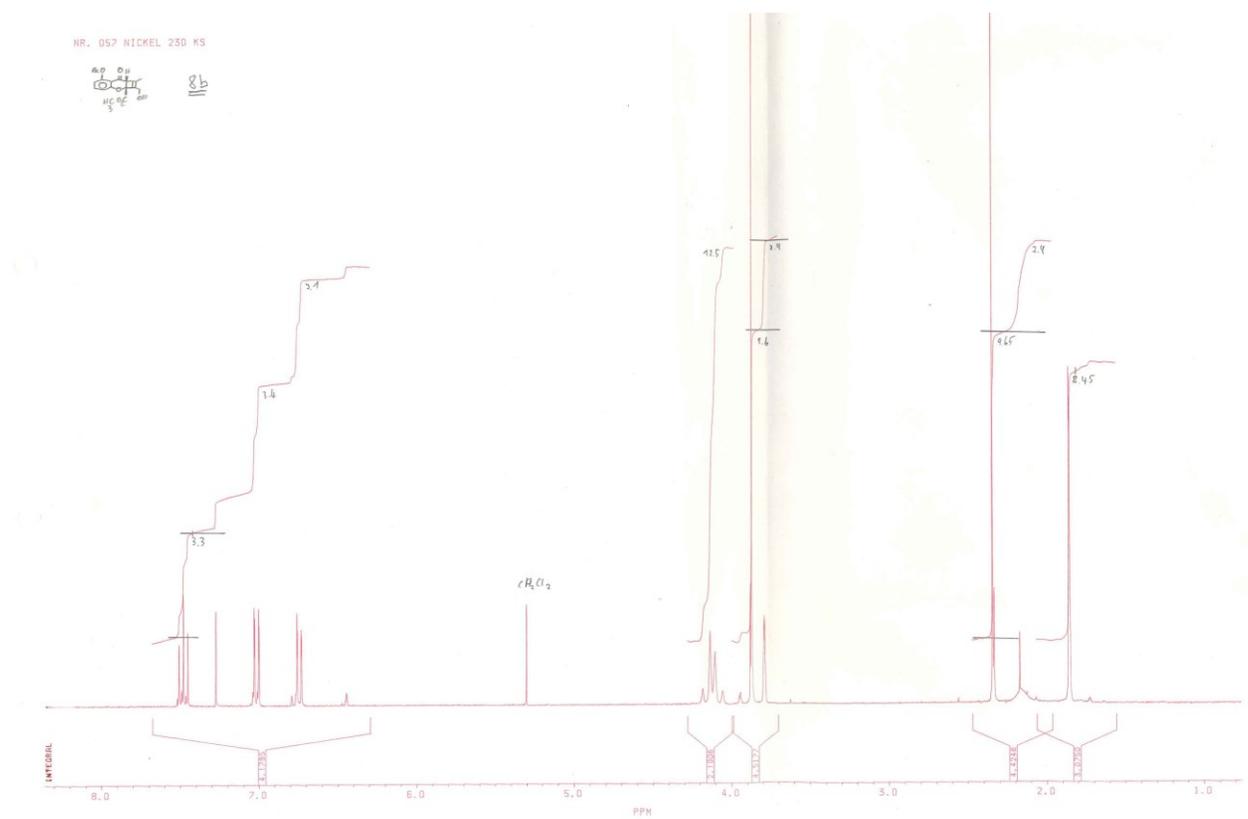


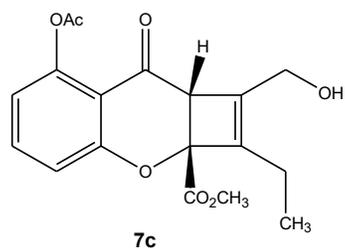
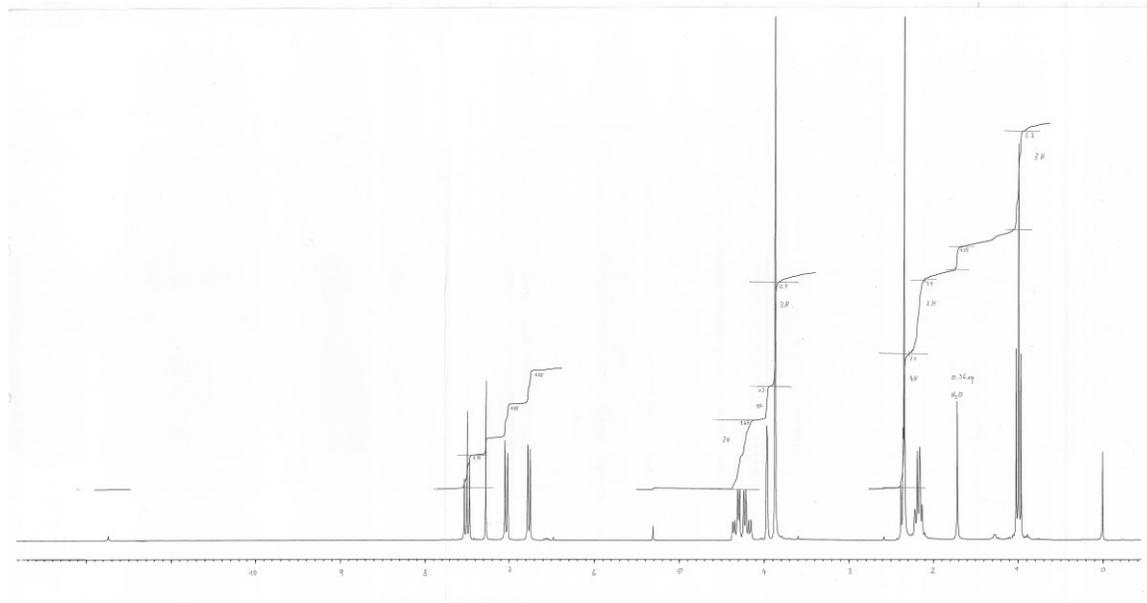
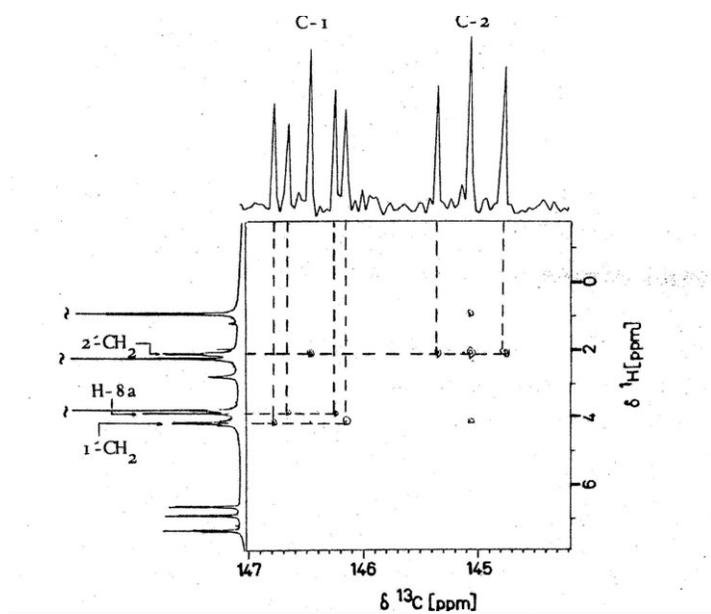
Compound 7a**¹H NMR (300 MHz, CDCl₃)****¹³C NMR (67.88 MHz, CDCl₃)**

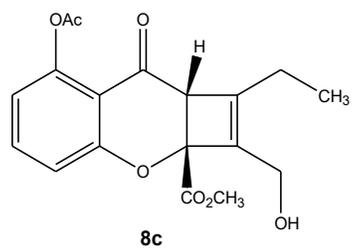
Compound 7b**¹H NMR (300 MHz, CDCl₃)**

NICKEL NI ME, KK 1H 1994 65HZ/CM CDCL3

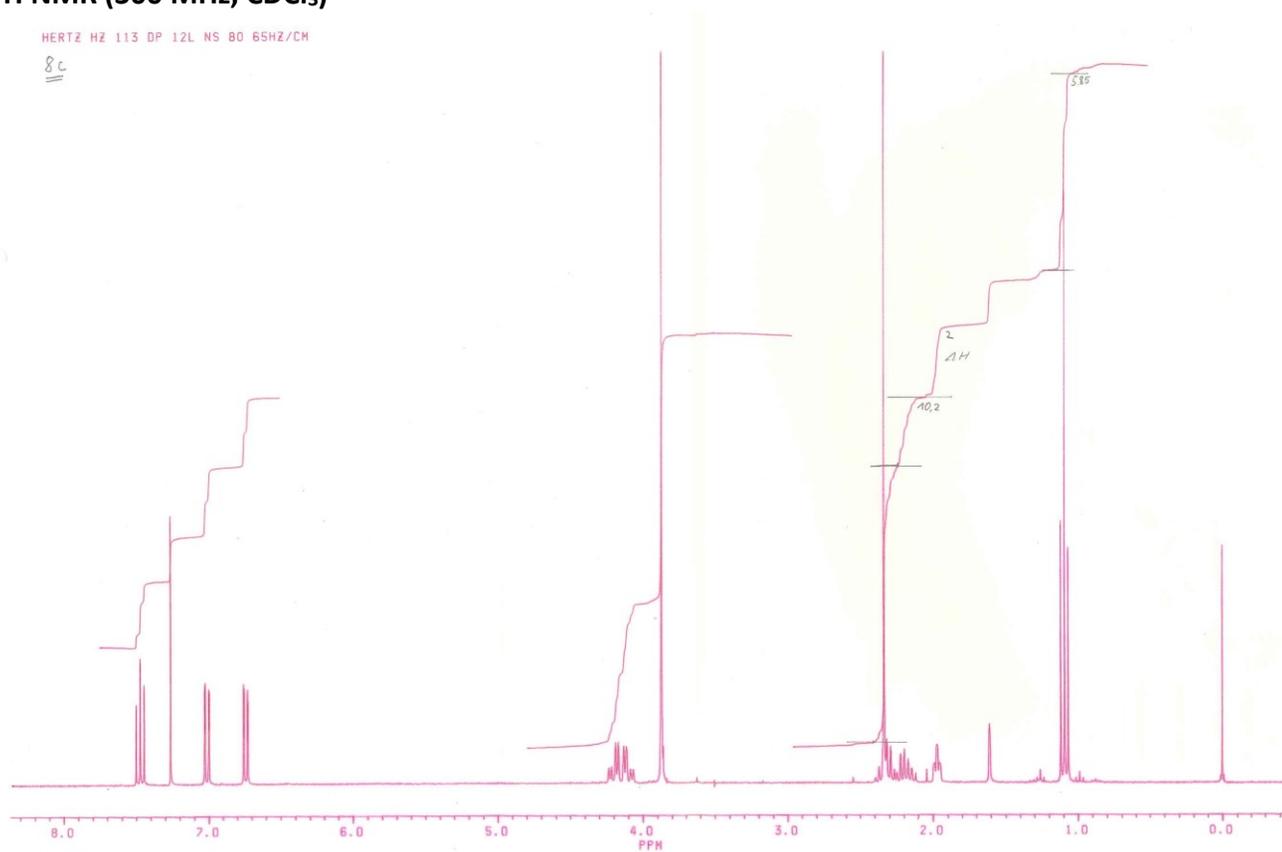


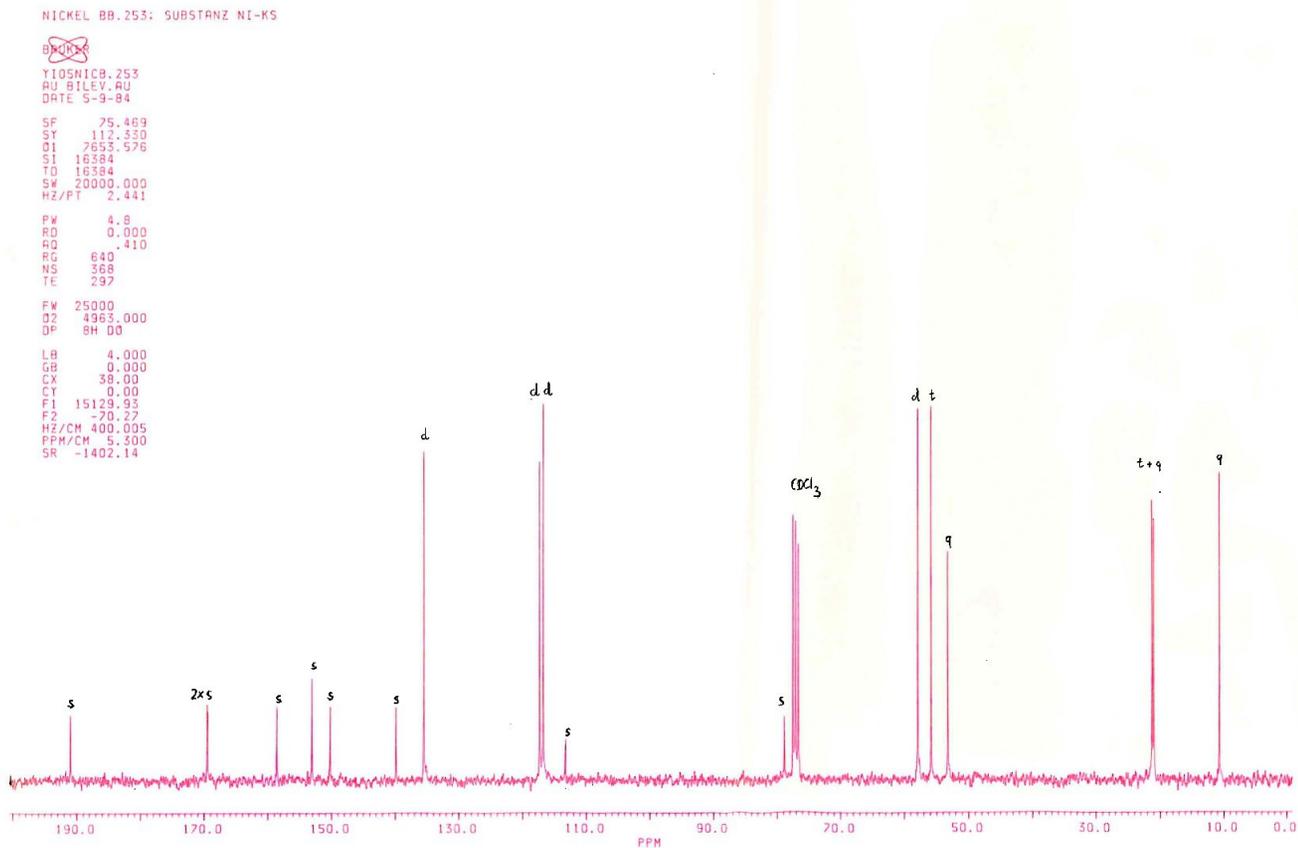
Compound 8b**¹H NMR (300 MHz, CDCl₃)**

Compound 7c**¹H NMR (270 MHz, CDCl₃)****H,C-COSY (CDCl₃)**

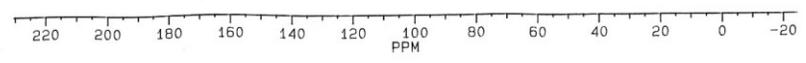
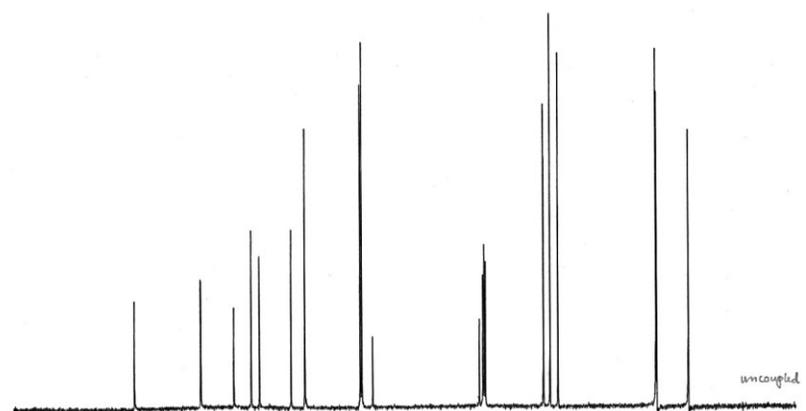
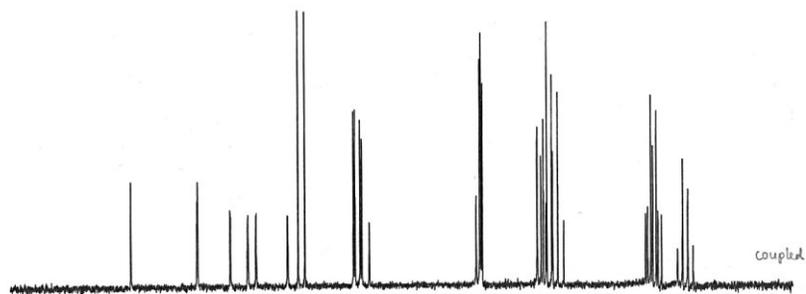
Compound 8c**¹H NMR (300 MHz, CDCl₃)**

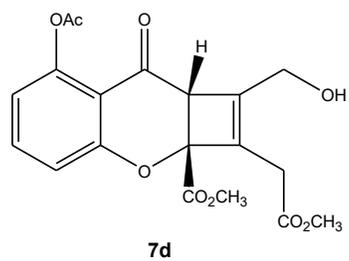
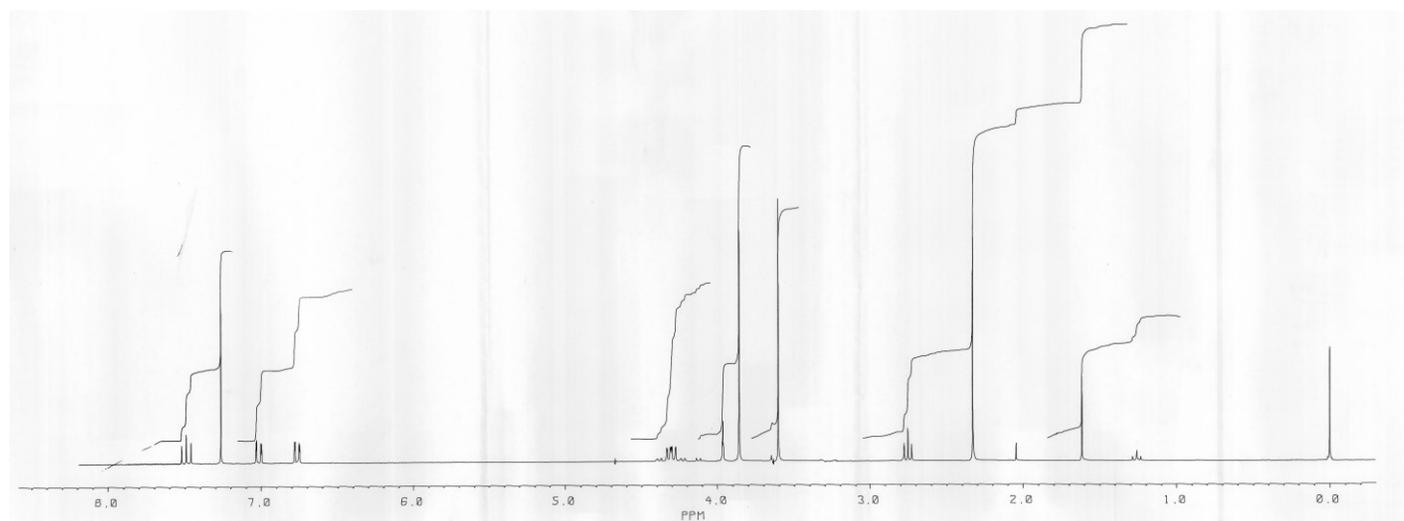
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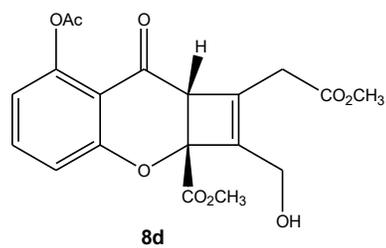
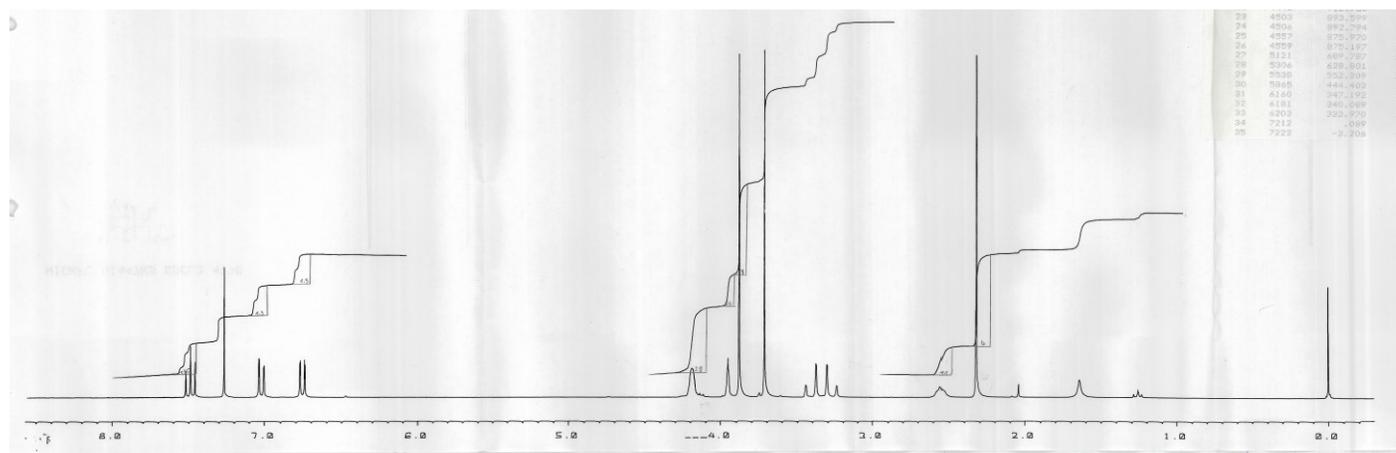
8c

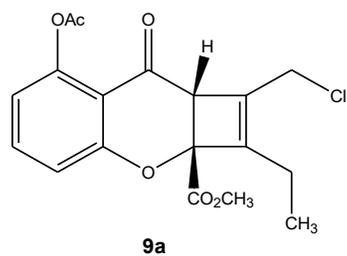
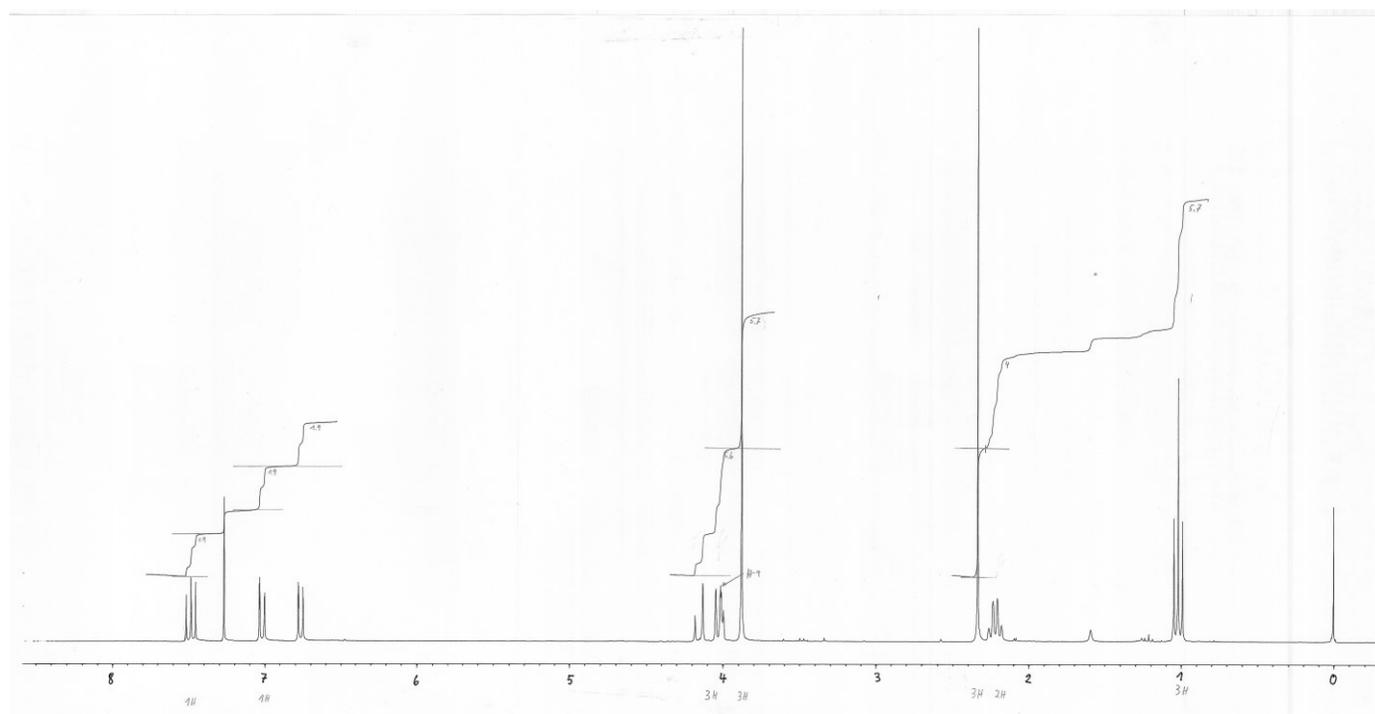
^{13}C NMR (75.5 MHz, CDCl_3)

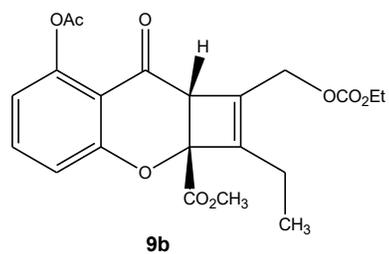
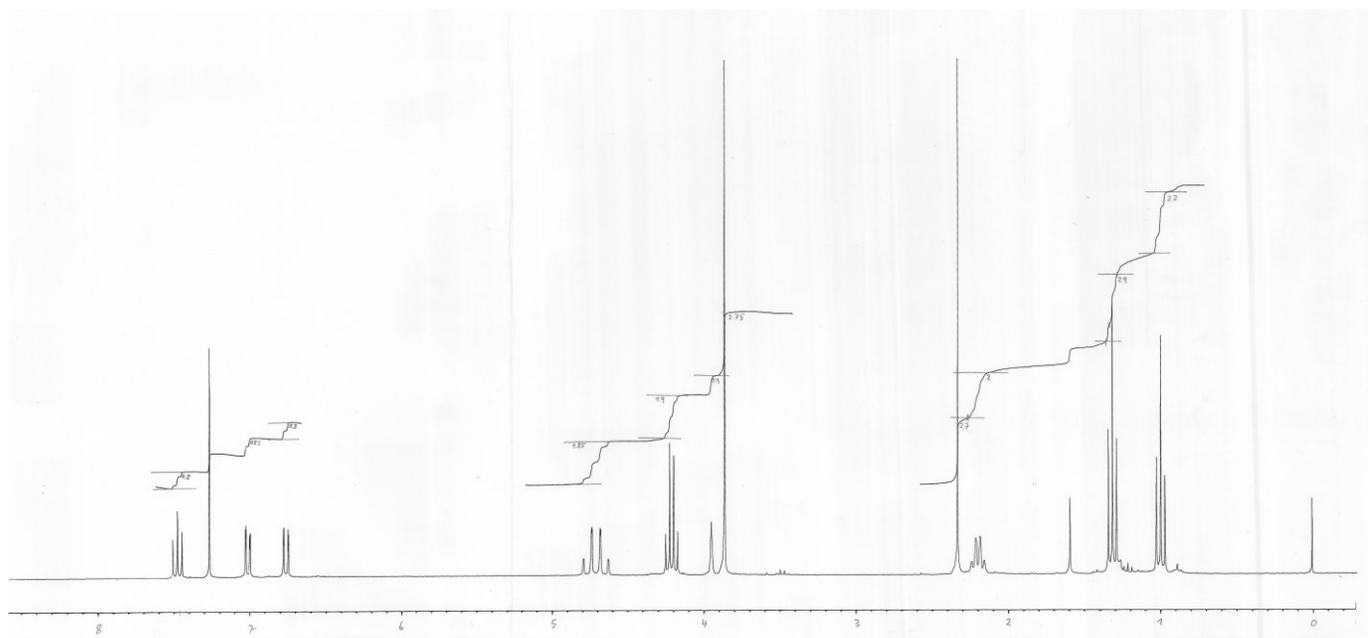
^{13}C NMR (75.5 MHz, CDCl_3 , coupled and uncoupled)

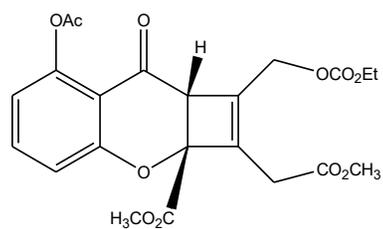


Compound 7d**¹H NMR (270 MHz, CDCl₃)**

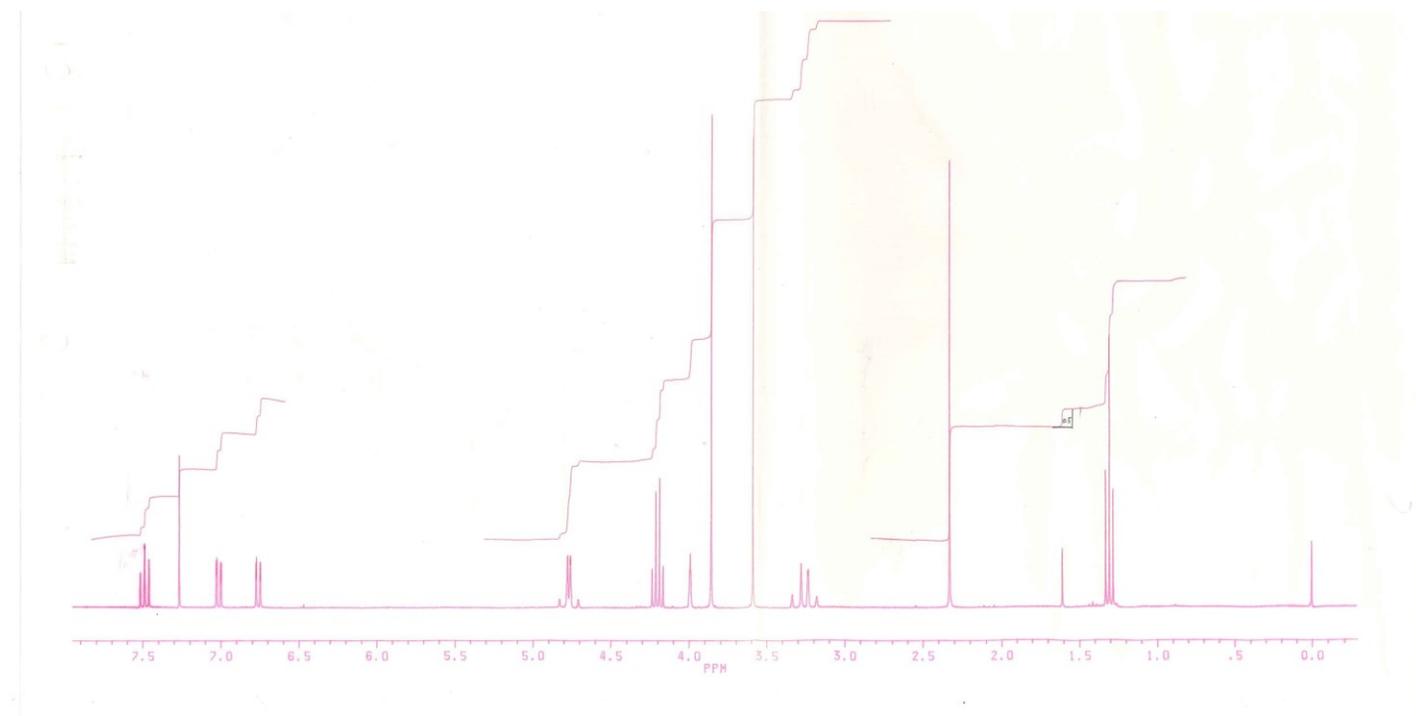
Compound 8d**¹H NMR (270 MHz, CDCl₃)**

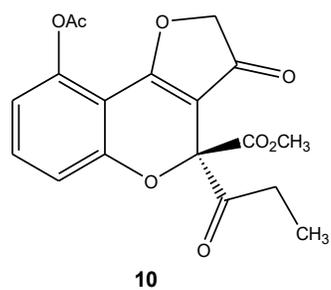
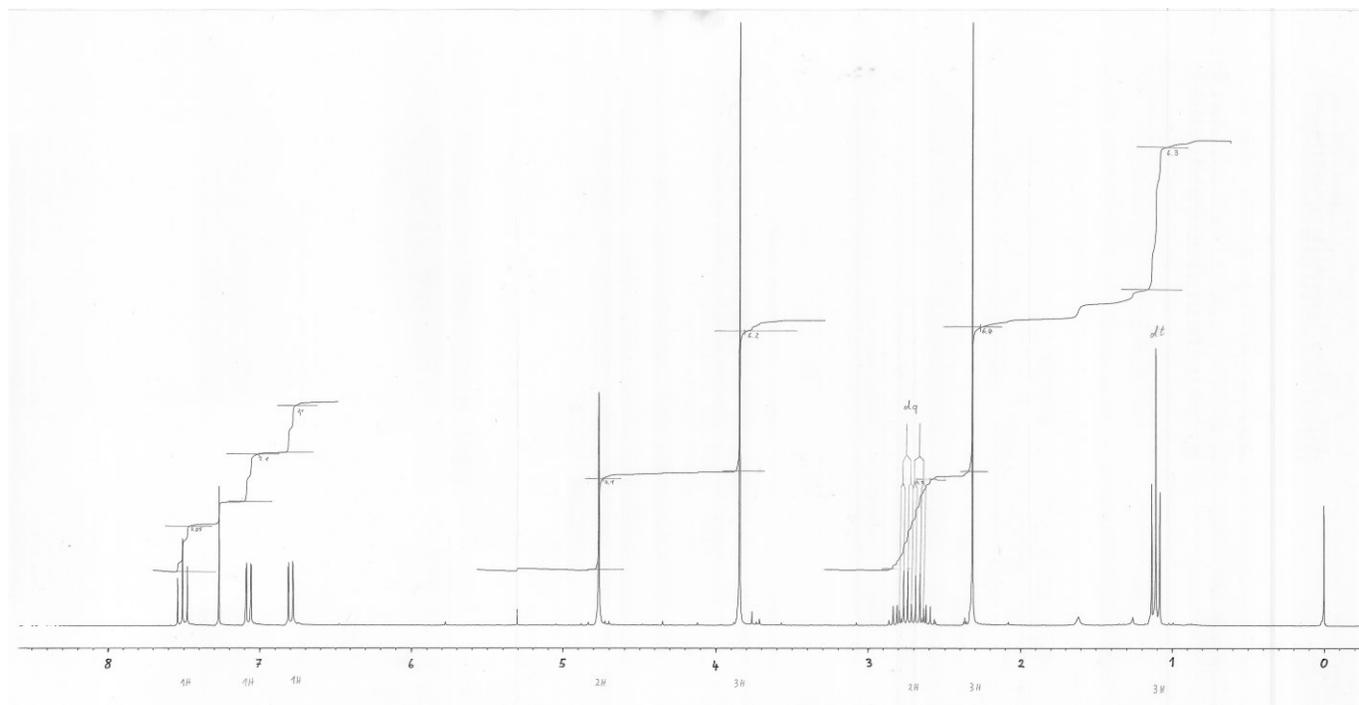
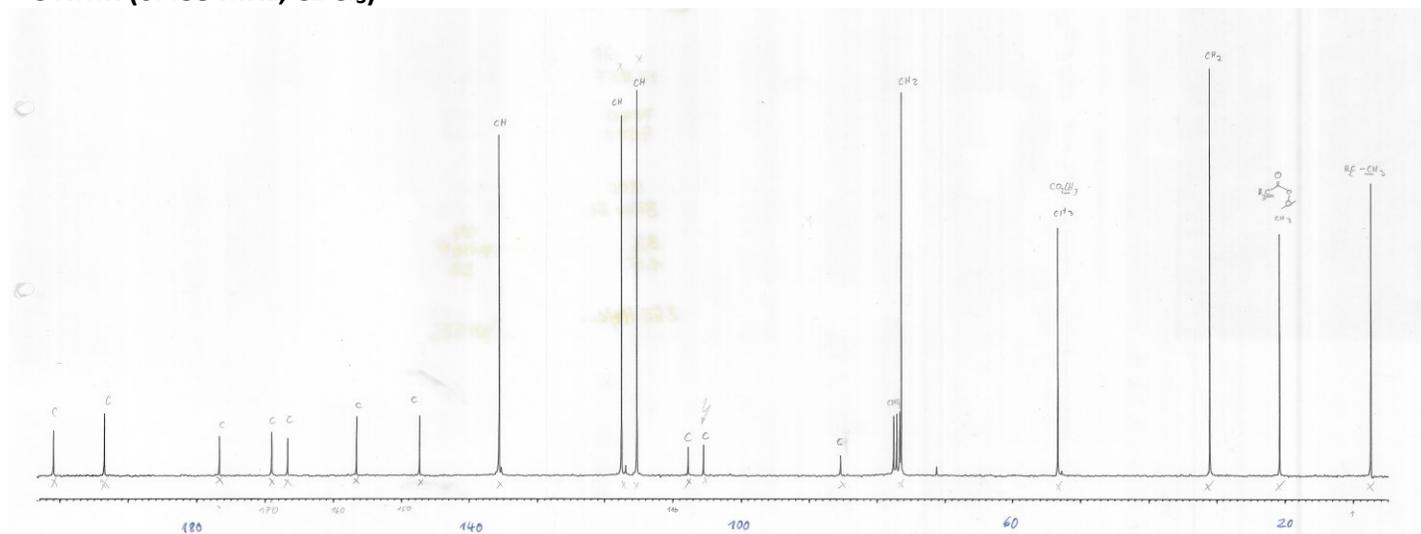
Compound 9a**¹H NMR (270 MHz, CDCl₃)**

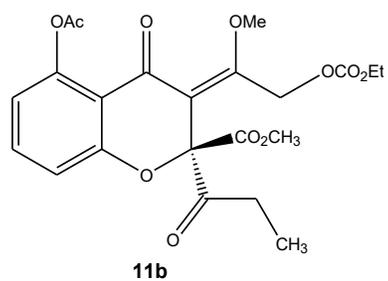
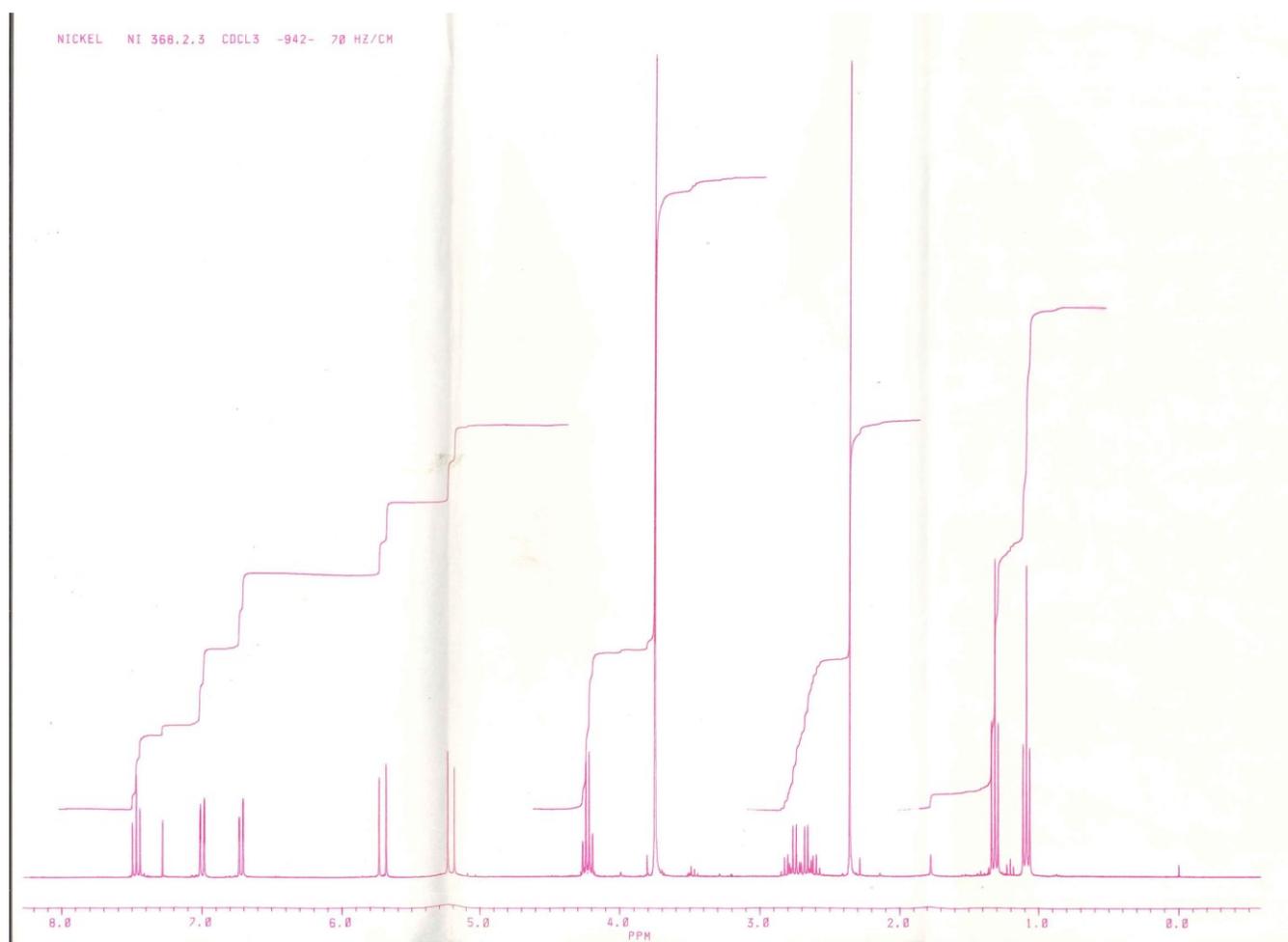
Compound 9b**¹H NMR (270 MHz, CDCl₃)**

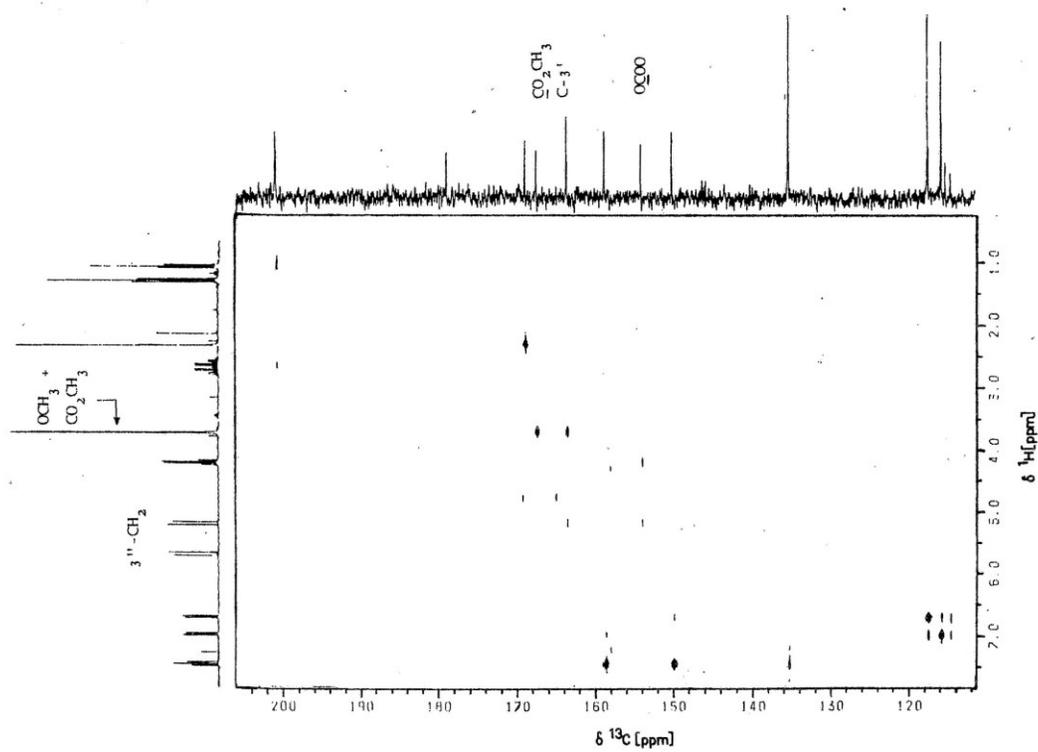
Compound 9d

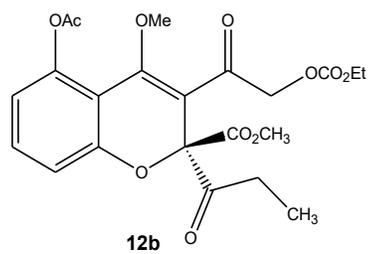
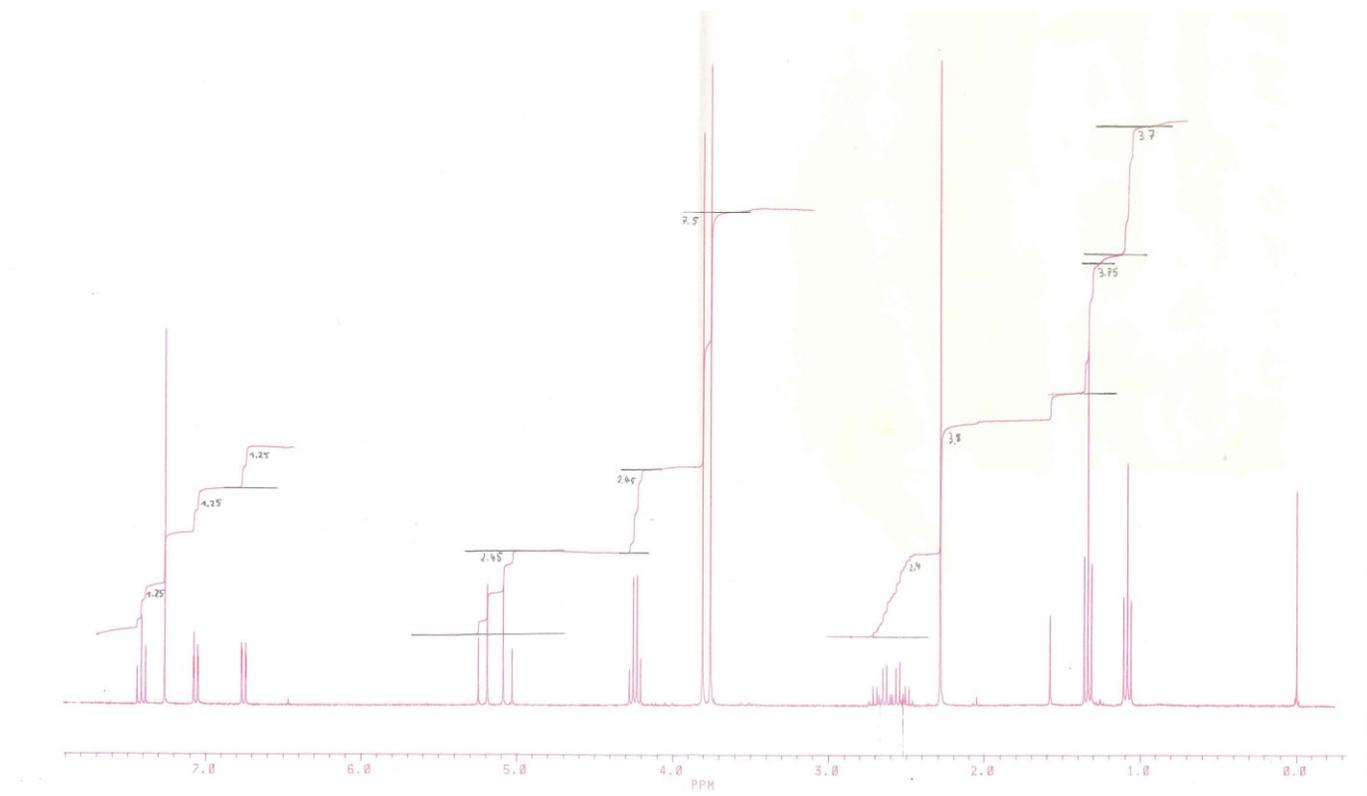
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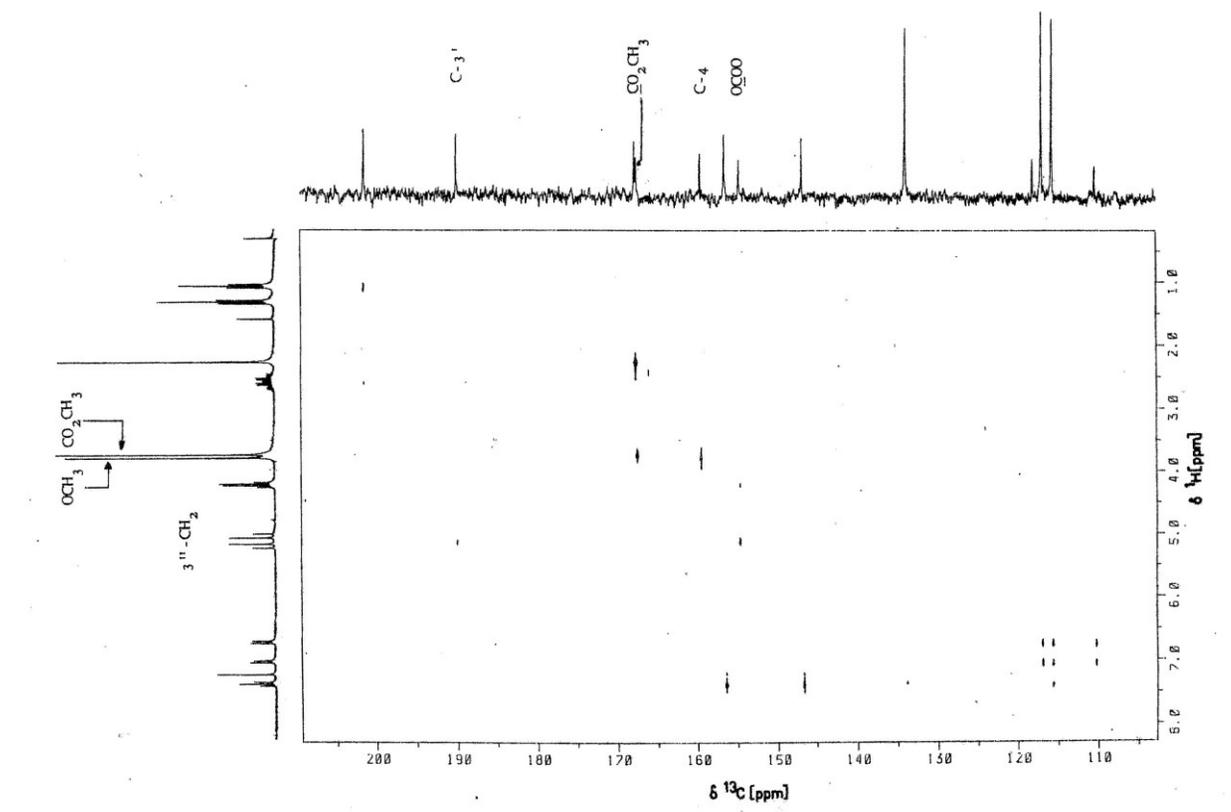
¹H NMR (300 MHz, CDCl₃)

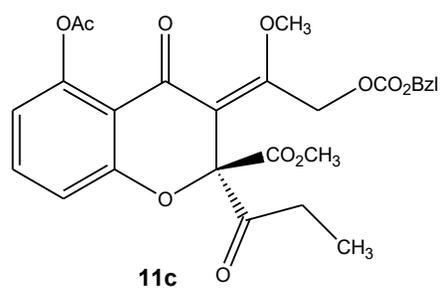
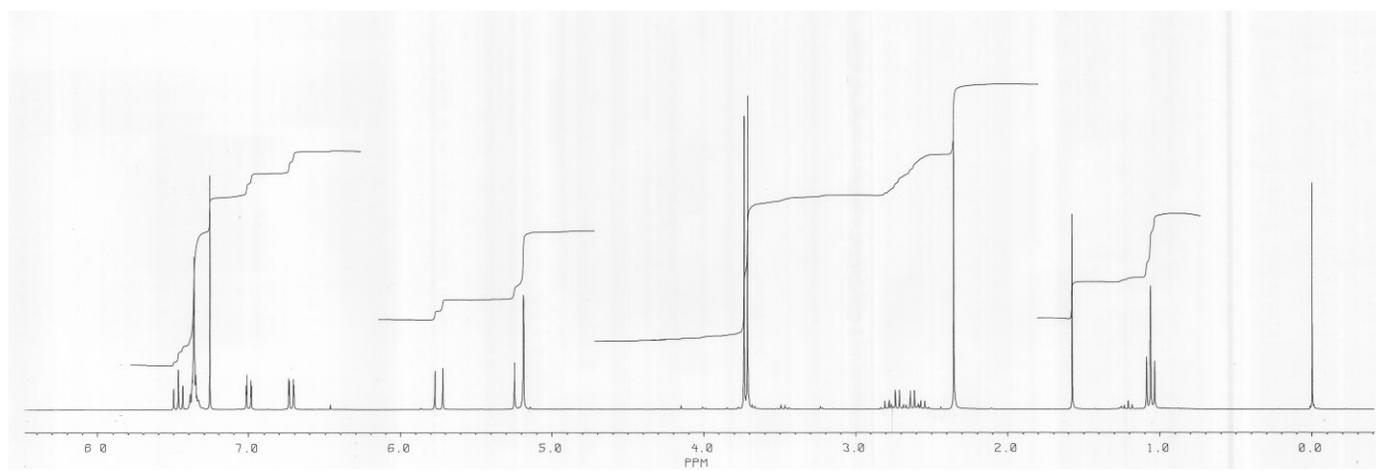
Compound 10**¹H NMR (270 MHz, CDCl₃)****¹³C NMR (67.88 MHz, CDCl₃)**

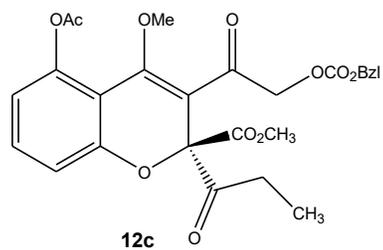
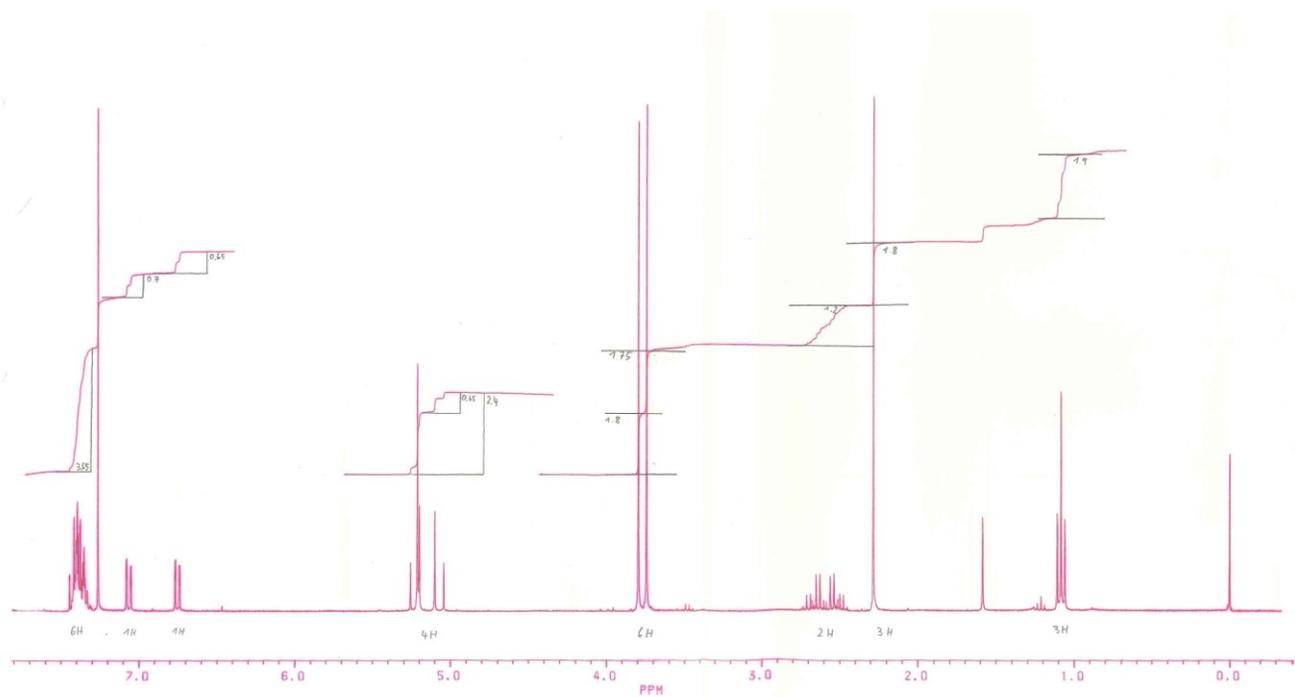
Compound 11b**¹H NMR (300 MHz, CDCl₃)**

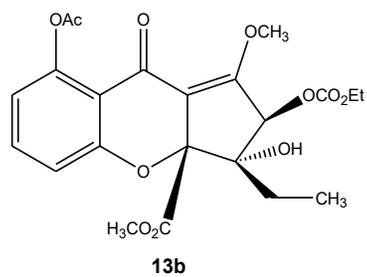
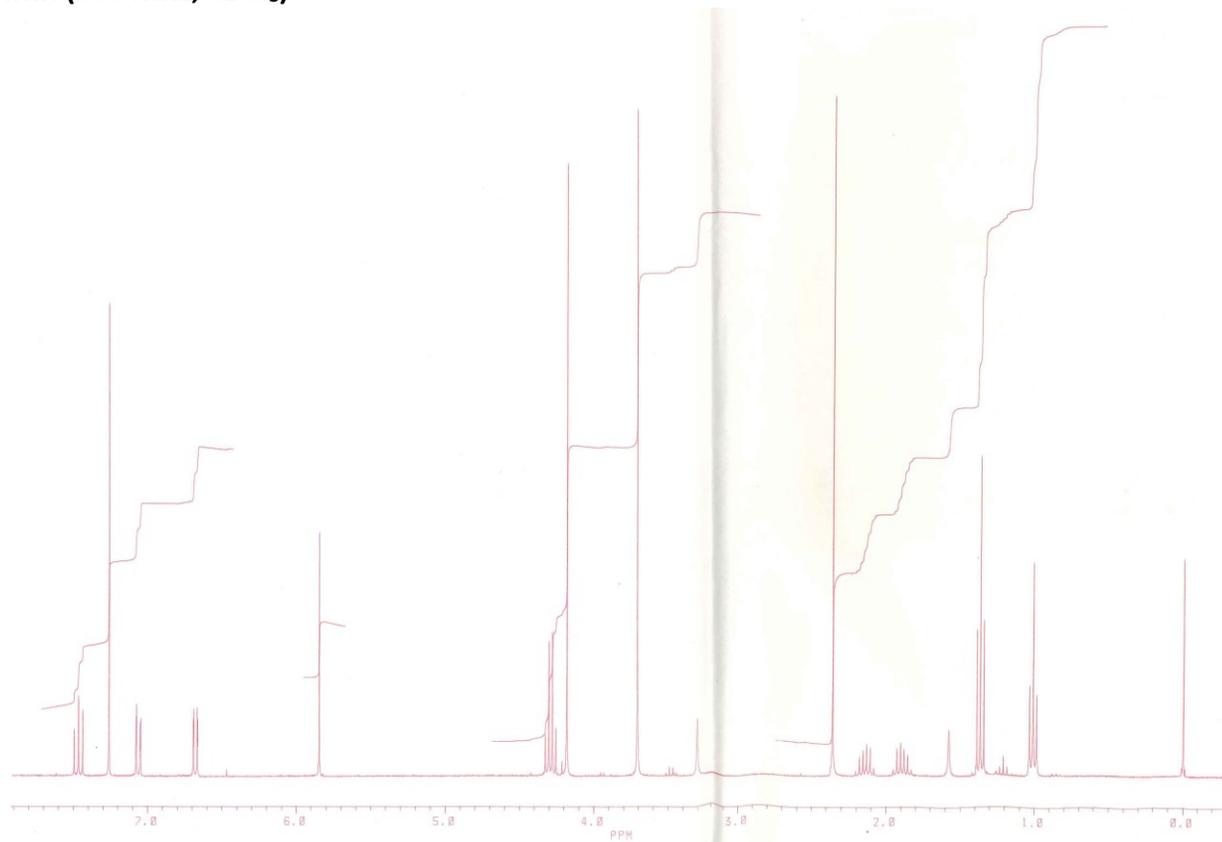
H,C-COLOC (CDCl₃)

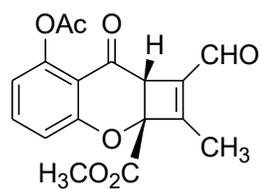
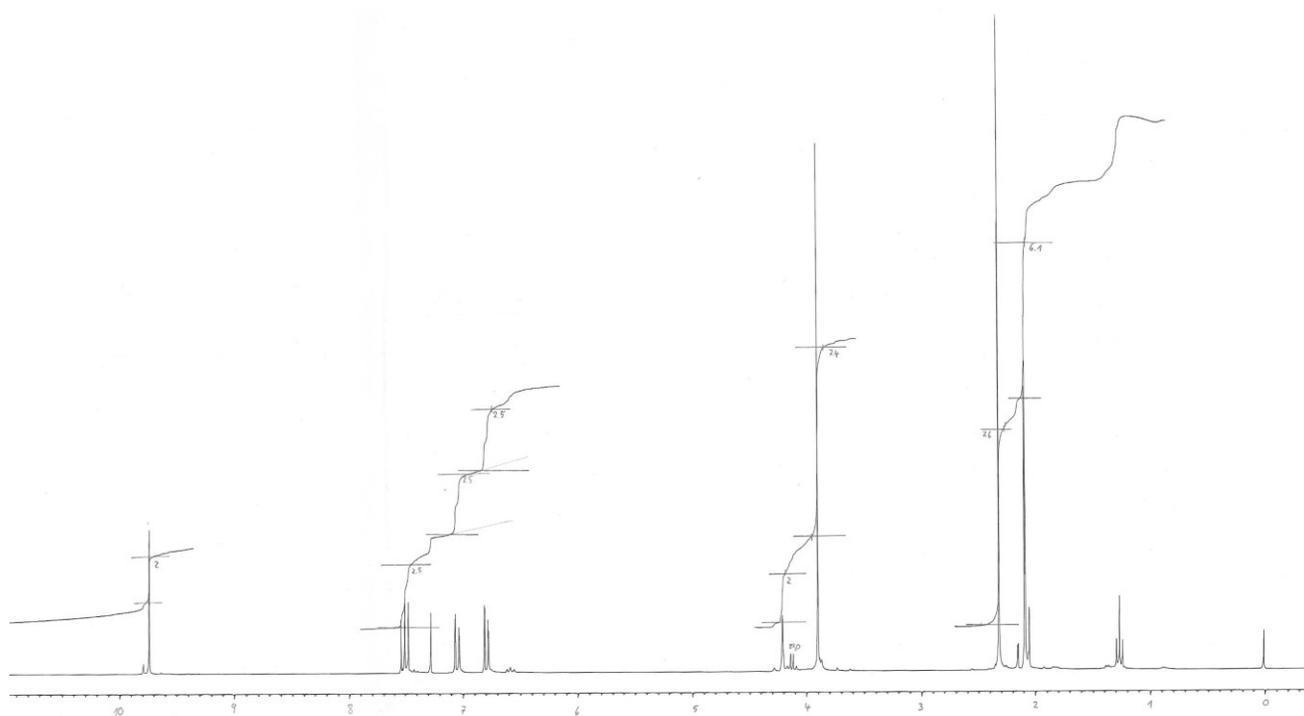
Compound 12b**¹H NMR (300 MHz, CDCl₃)**

H,C-COLOC (CDCl₃)

Compound 11c**¹H NMR (270 MHz, CDCl₃)**

Compound 12c**¹HNMR (300 MHz, CDCl₃)**

Compound 13**¹H NMR (300 MHz, CDCl₃)**

Compound 14**14****¹H NMR (270 MHz, CDCl₃)**

H,H-COSY (CDCl₃)