

Supplementary data

Secondary metabolites from the root-rot biocontrol fungus *Phlebiopsis gigantea*

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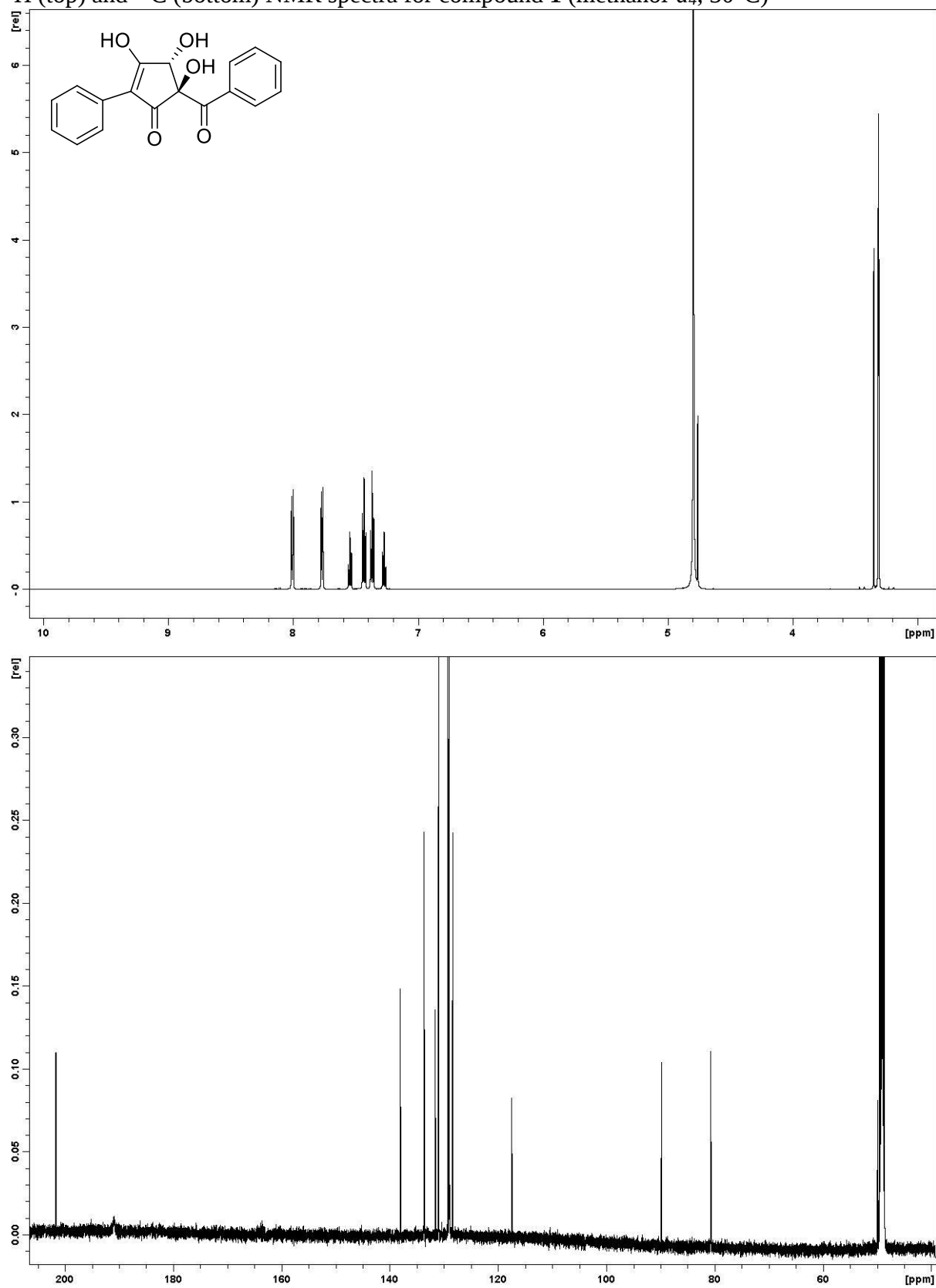
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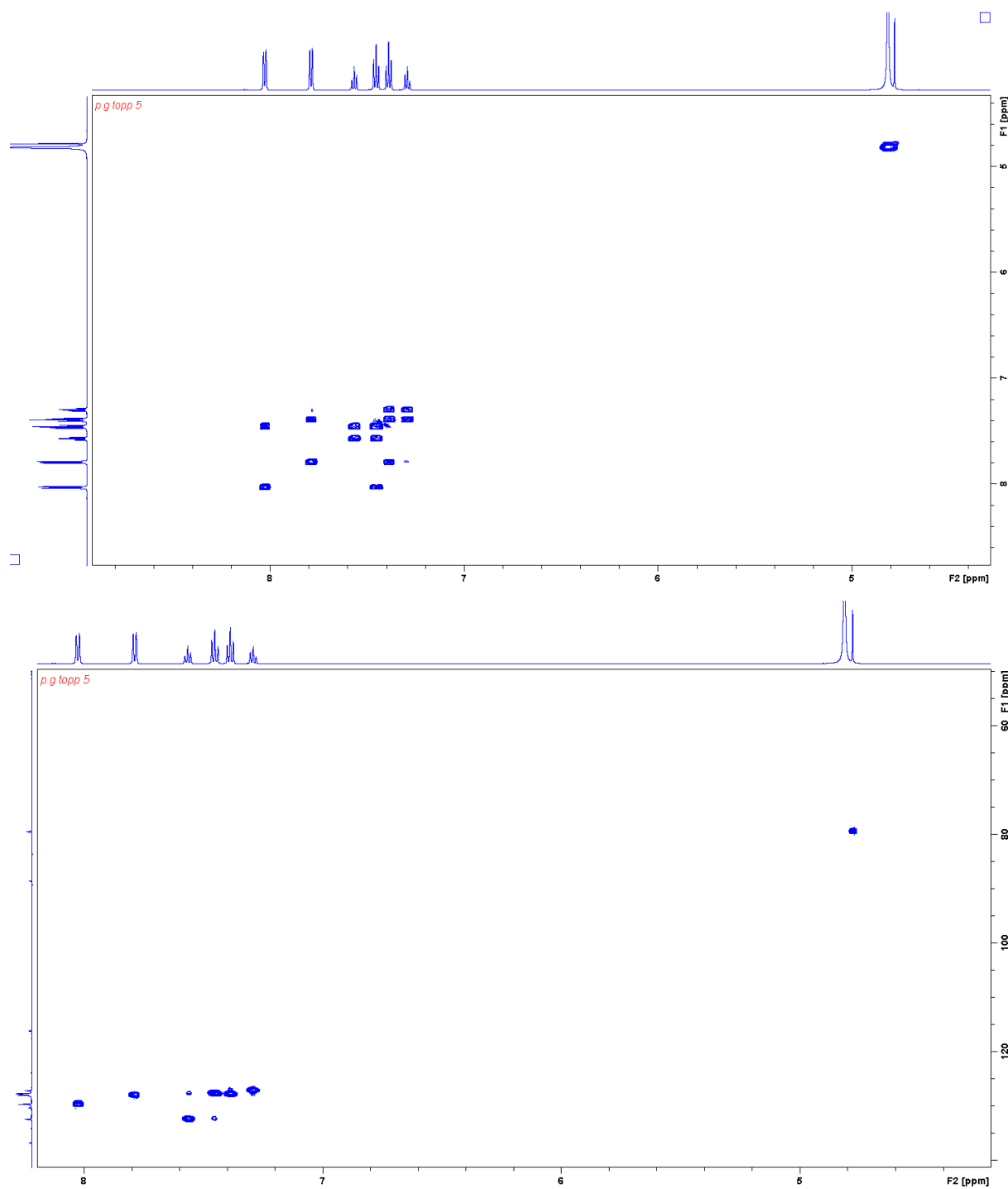
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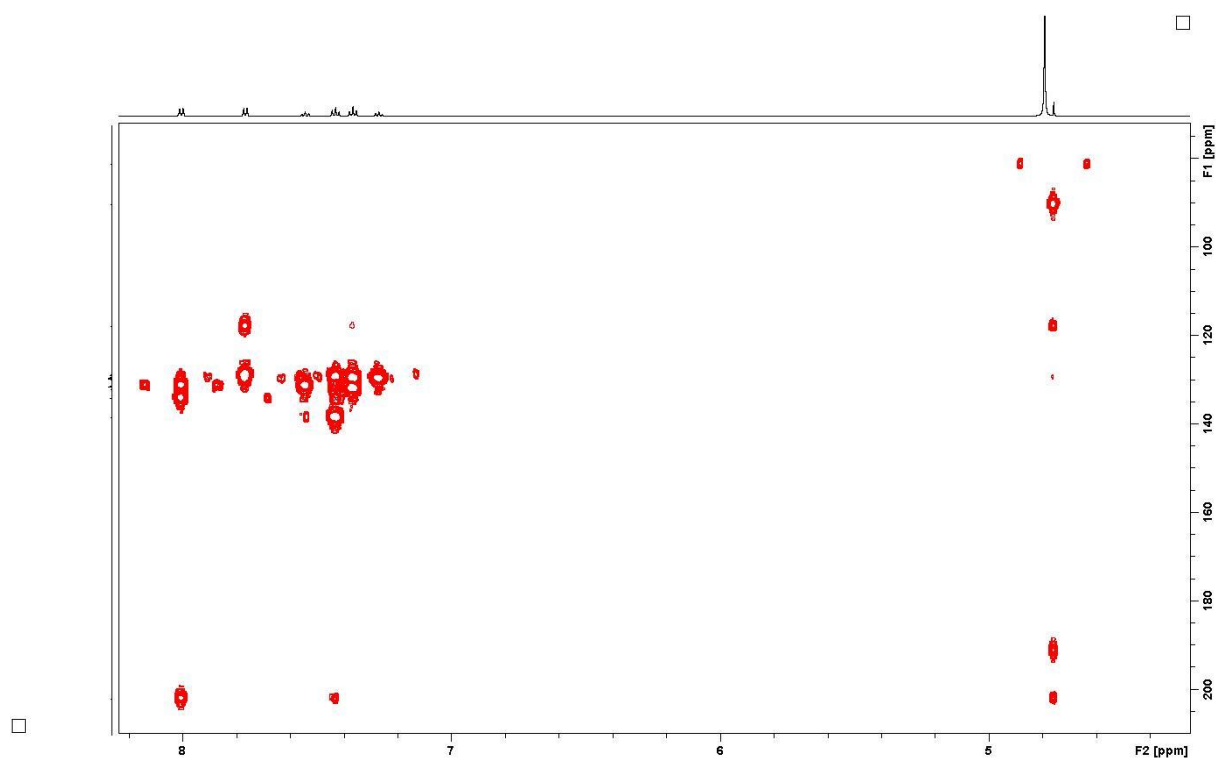
^1H (top) and ^{13}C (bottom) NMR spectra for compound **1** (methanol- d_4 , 30°C)



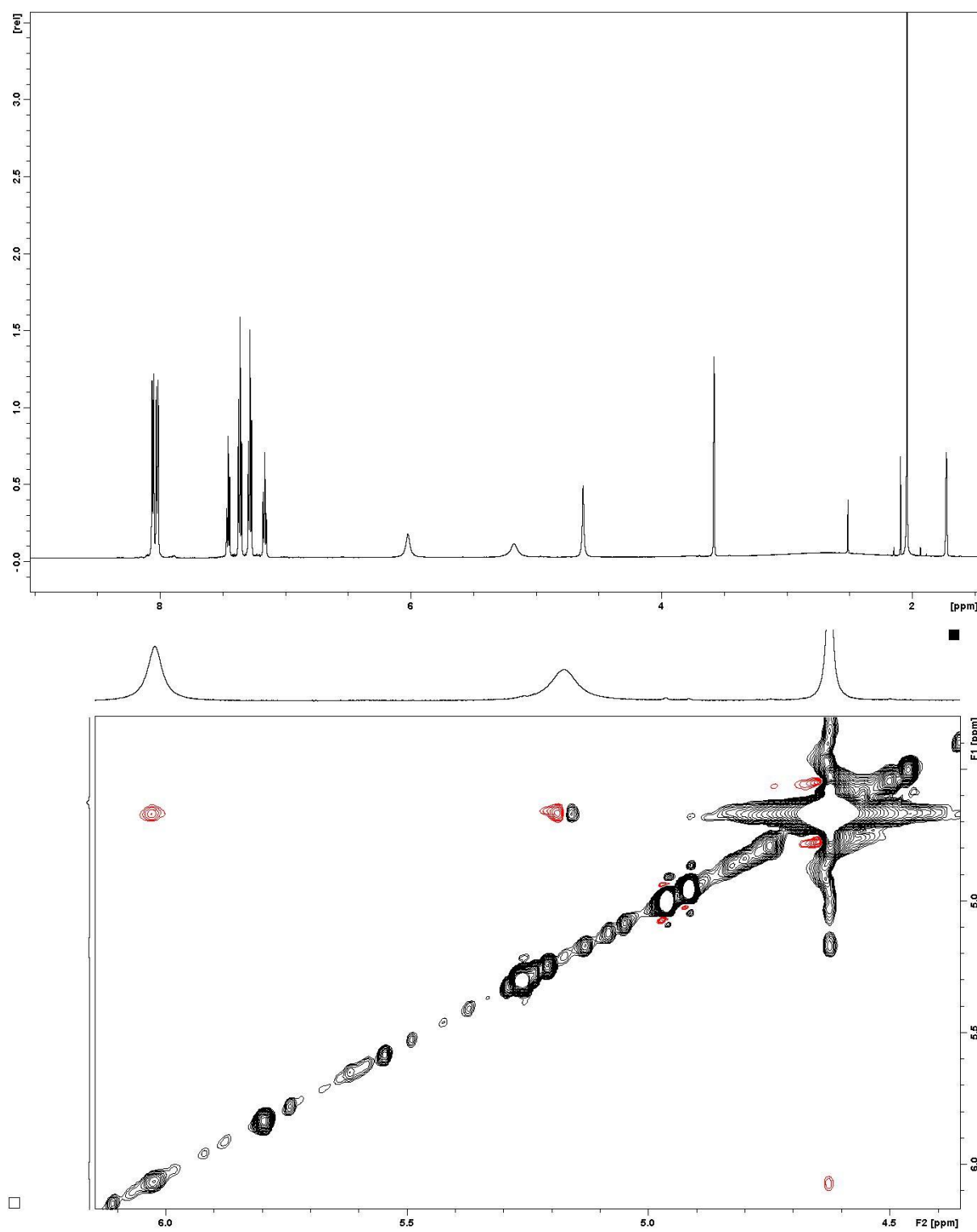
COSY (top) and HSQC (bottom) NMR spectra for compound **1** (methanol- d_4 , 30°C)



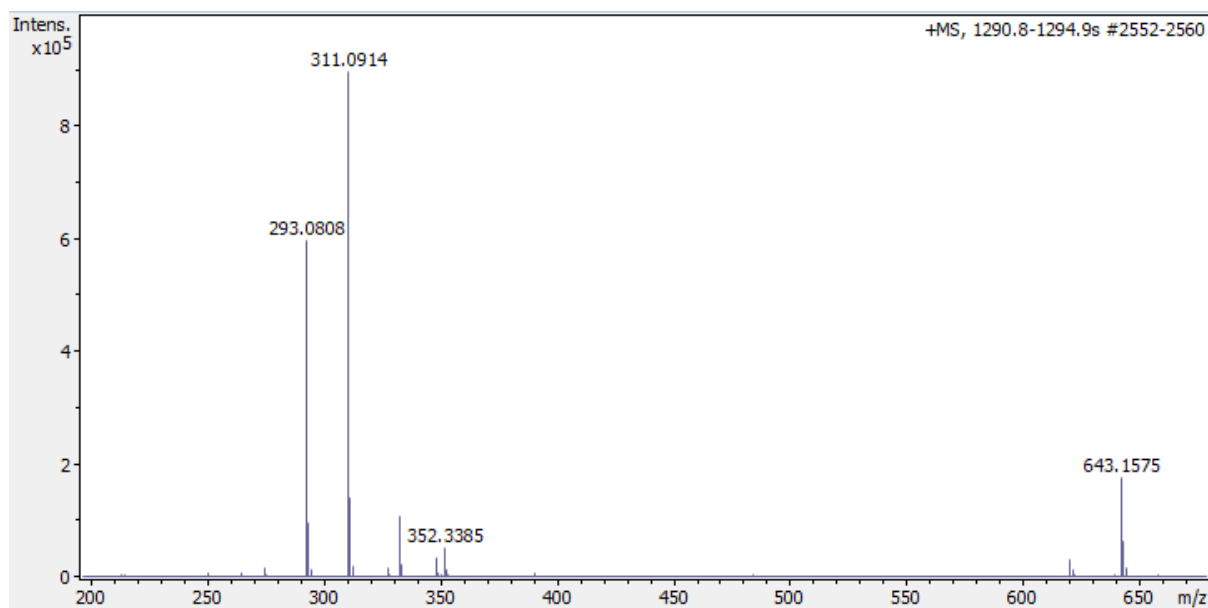
HMBC NMR spectrum for compound **1** (methanol- d_4 , 30°C).



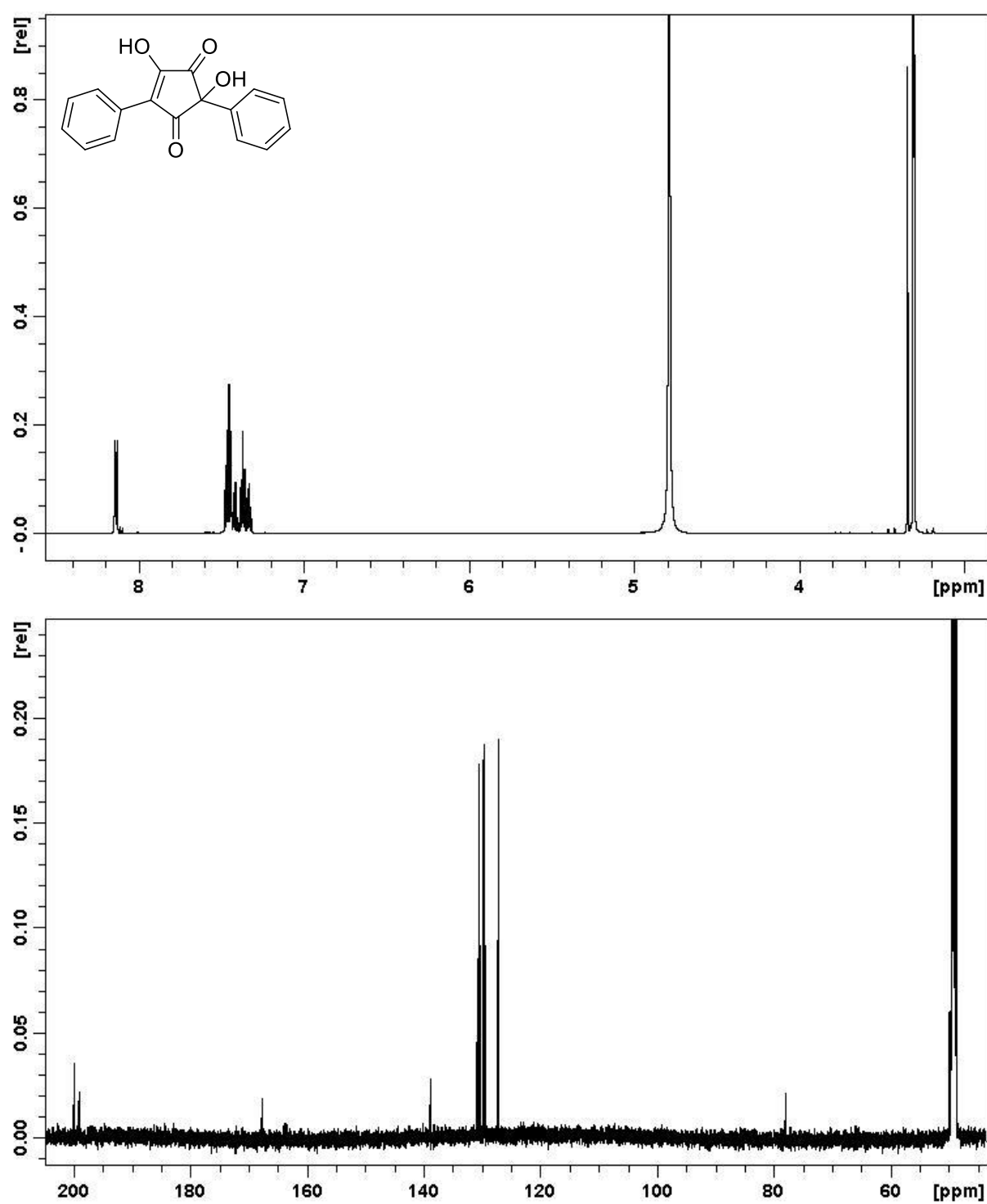
^1H (top) and ROESY (bottom) NMR spectra for compound **1** (THF- d_8 , 30°C)



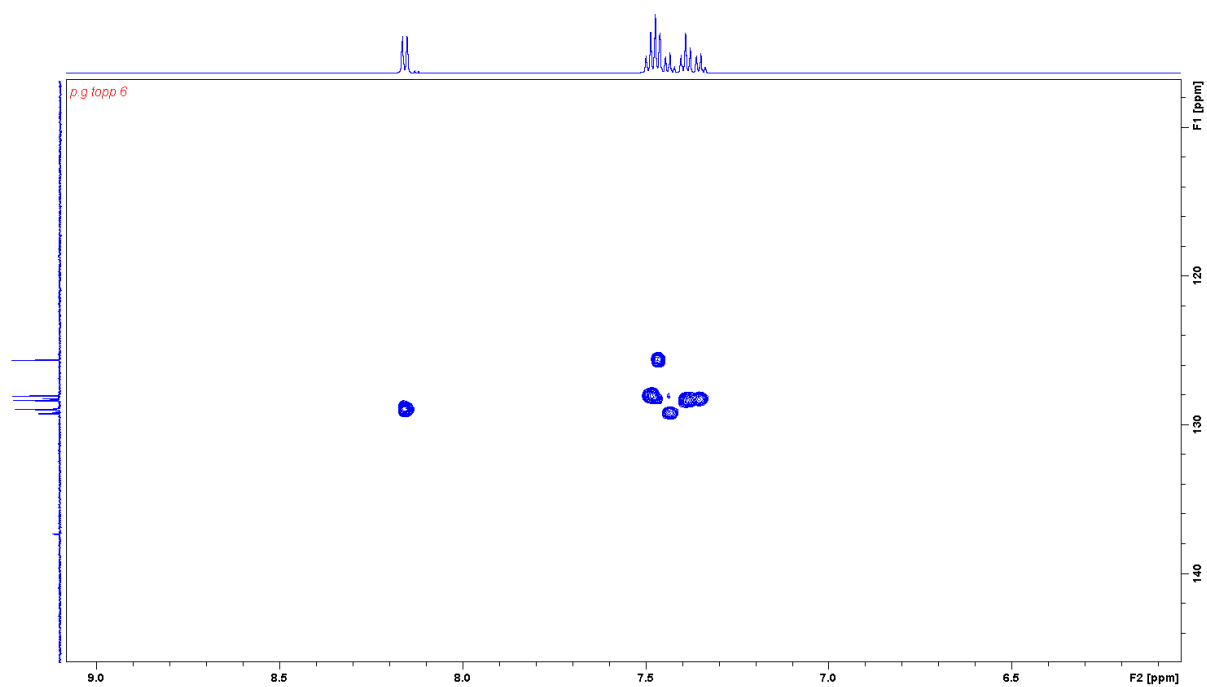
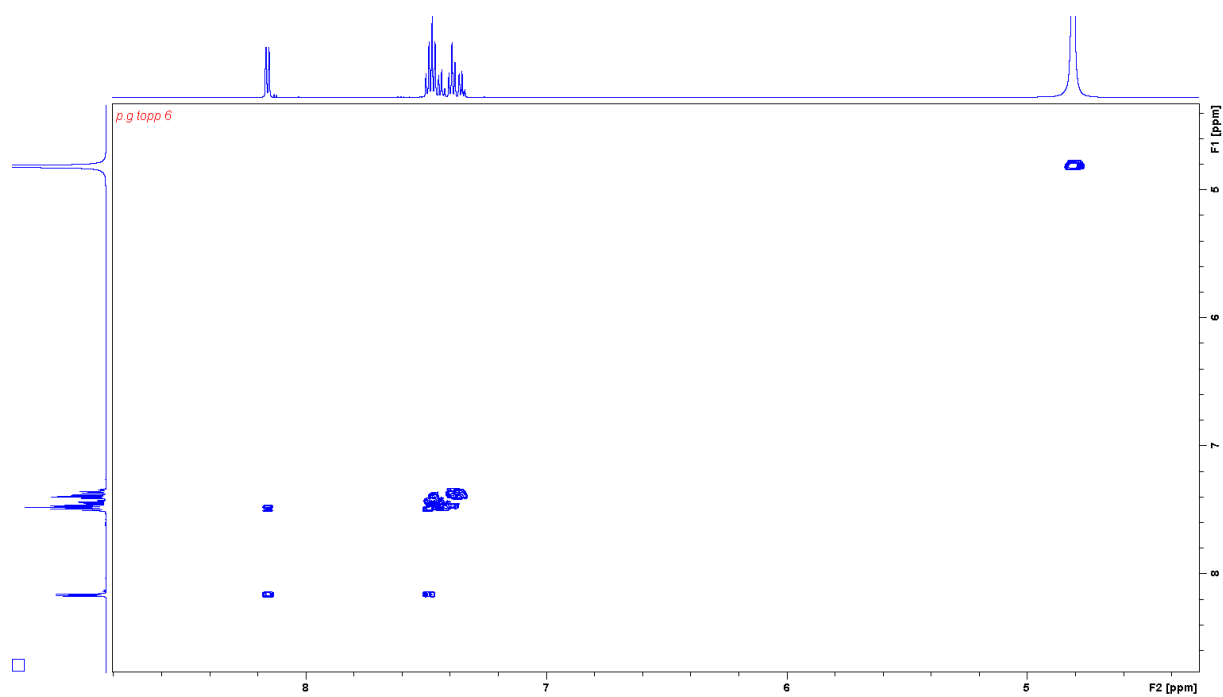
Mass spectrum for compound **1**. Major ions (from left to right): $[M+H-H_2O]^+$, $[M+H]^+$, and $[2M+Na]^+$.



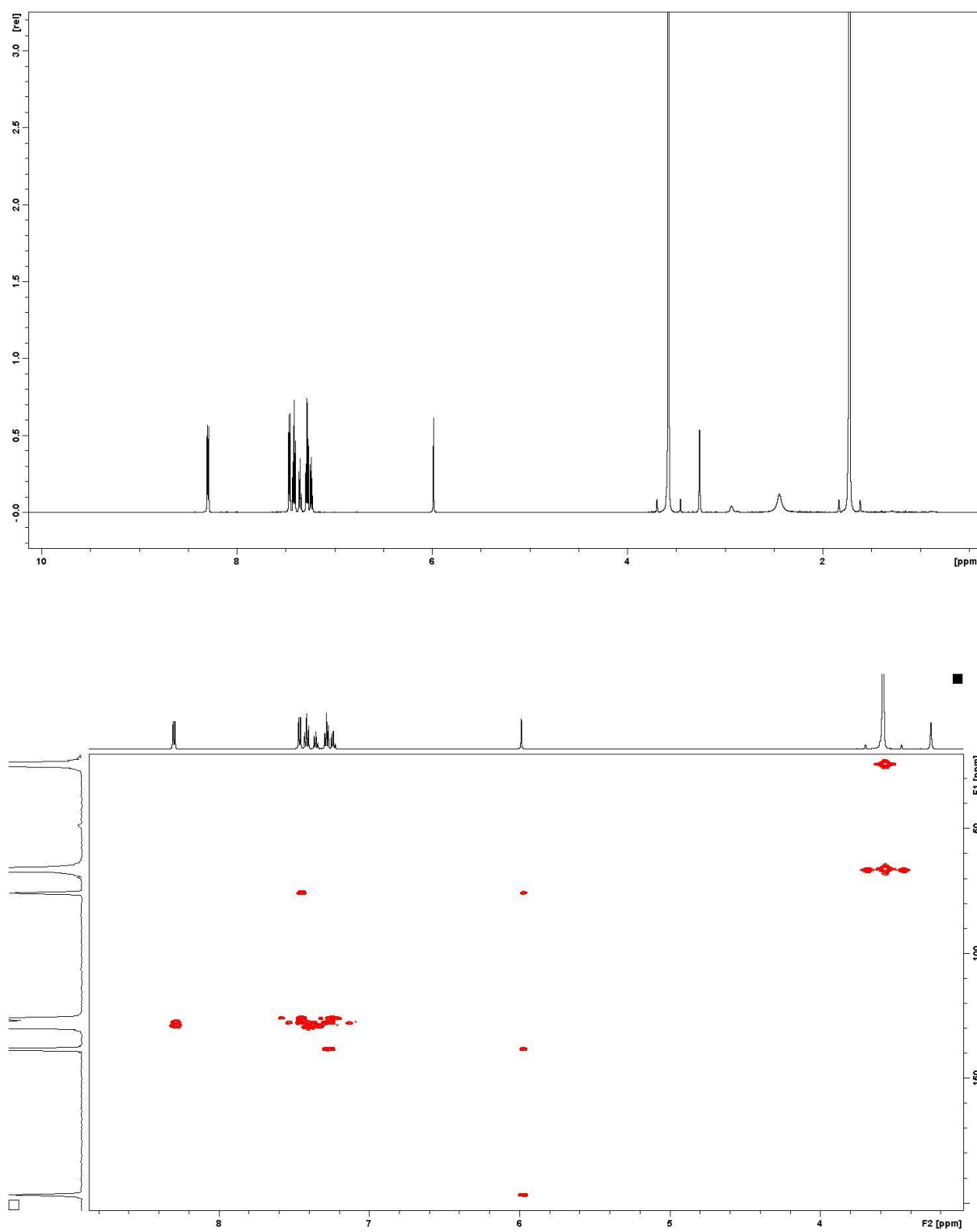
^1H (top) and ^{13}C (bottom) NMR spectra for compound 2 (methanol- d_4 , 30°C)



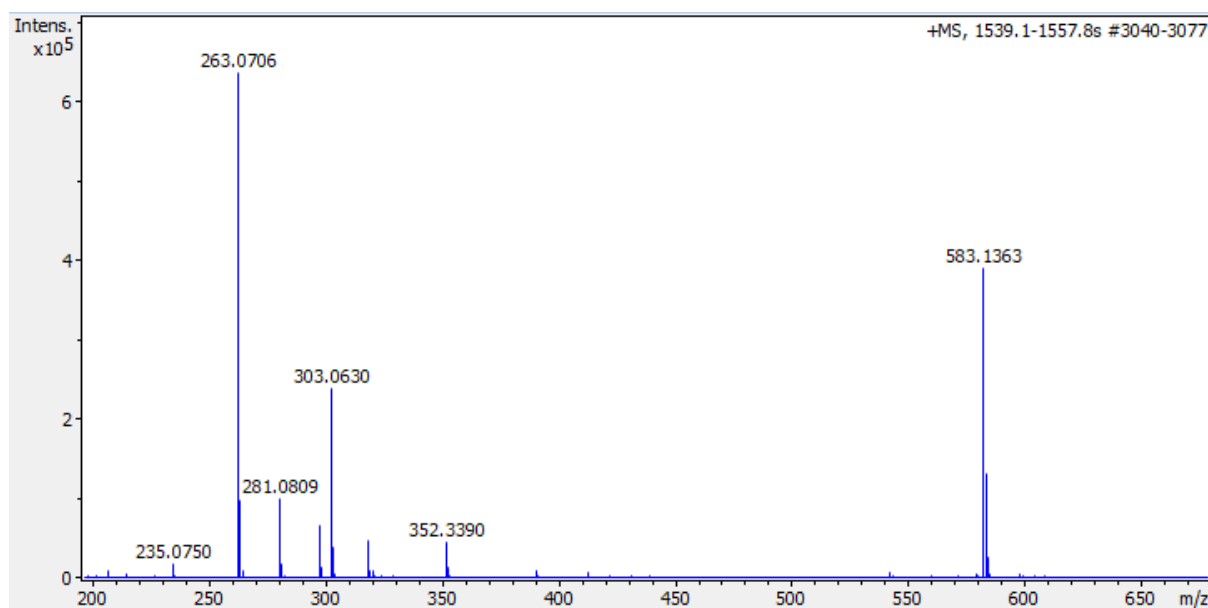
COSY (top) and HSQC (bottom) NMR spectra for compound 2 (methanol- d_4 , 30°C)



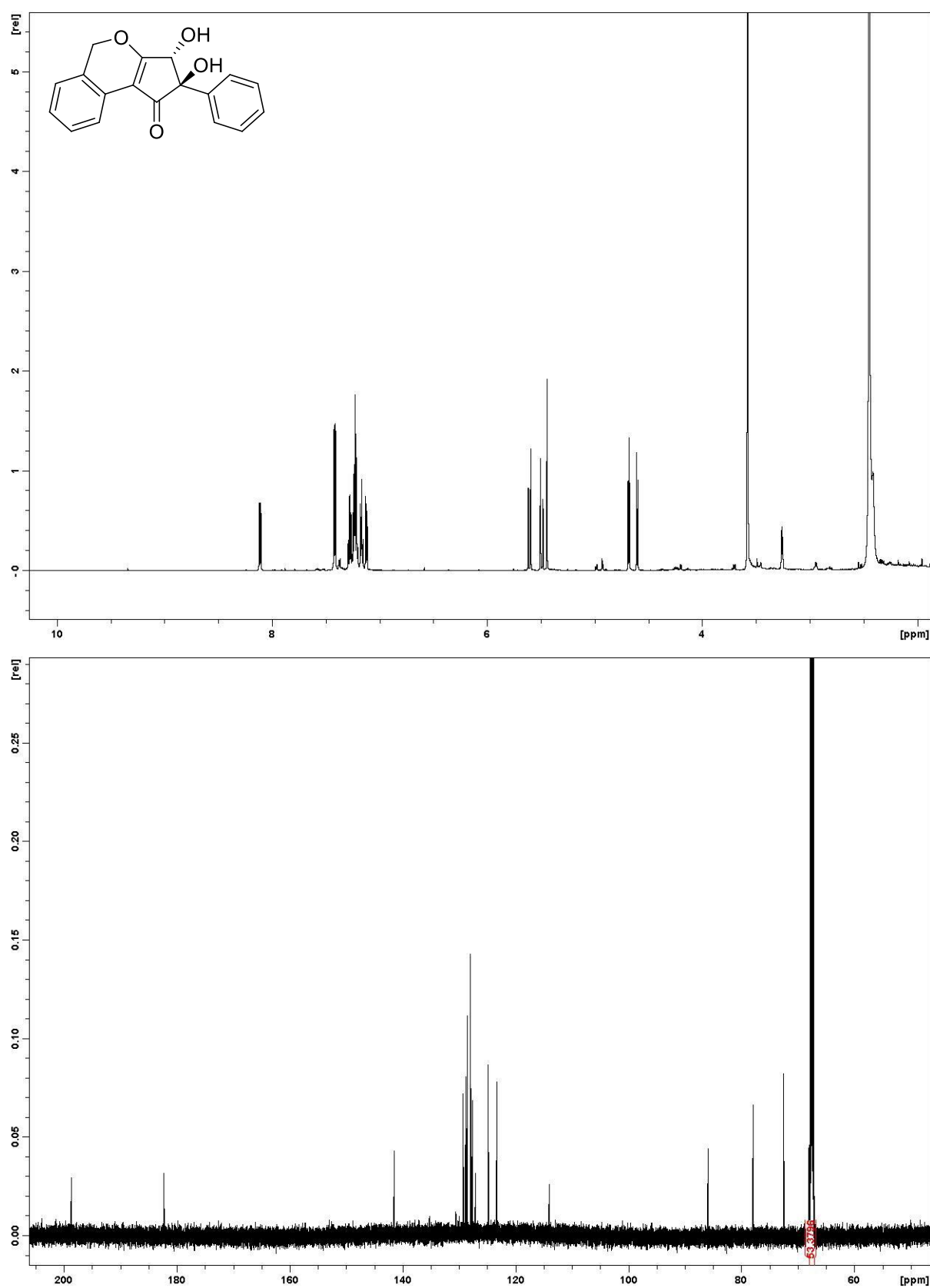
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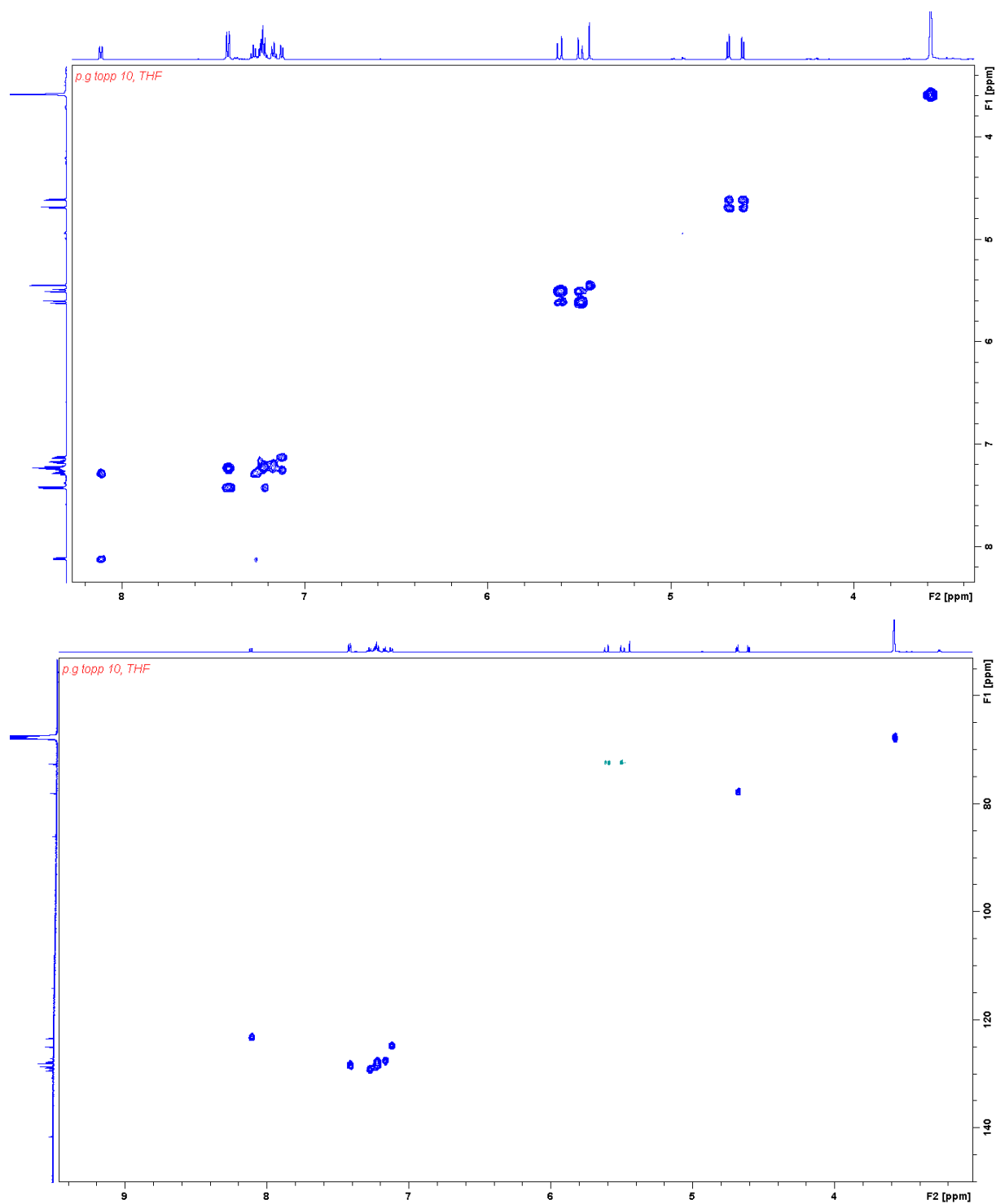
Mass spectrum for compound **2**. Major ions (from left to right): $[M+H-H_2O]^+$, $[M+H]^+$, $[M+Na]^+$ and $[2M+Na]^+$.



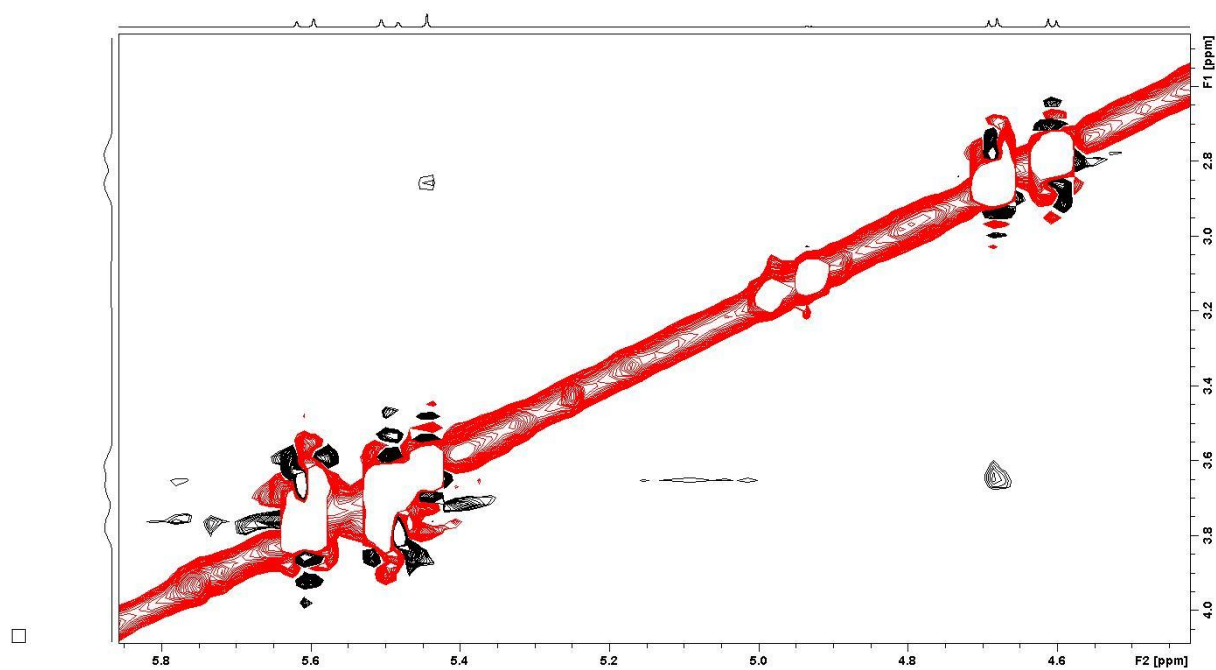
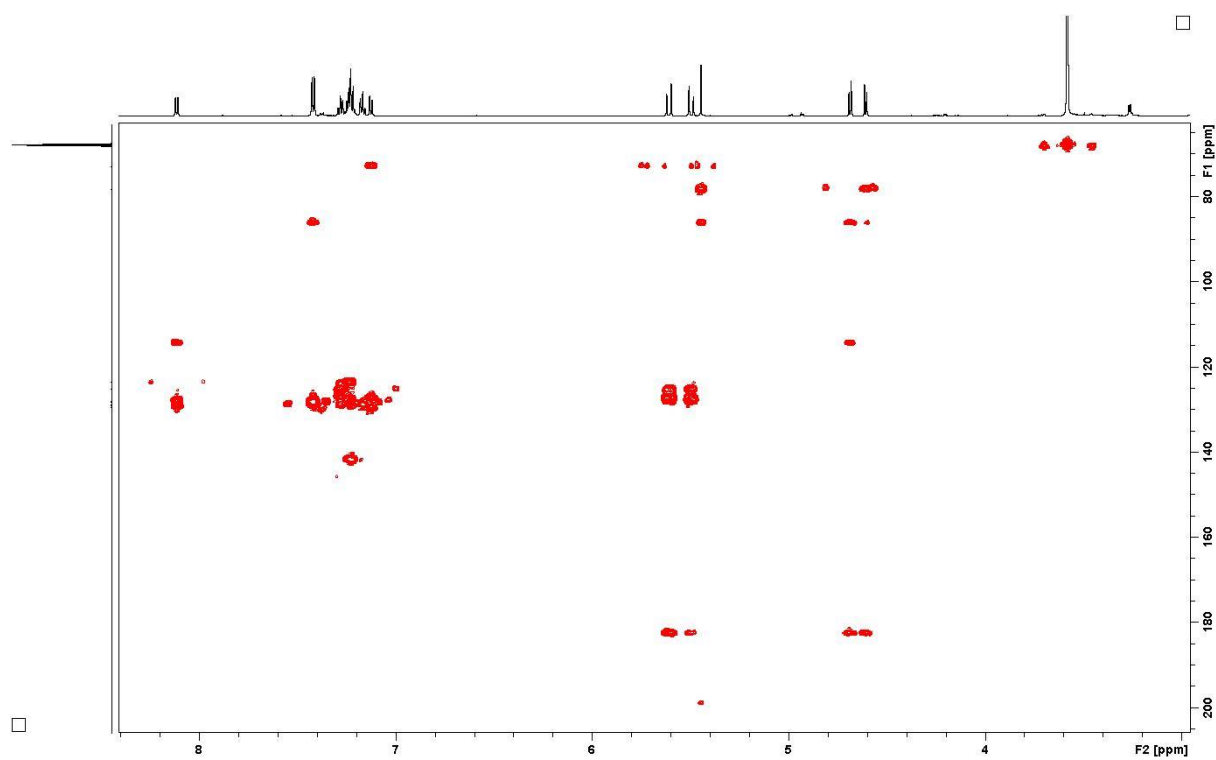
^1H (top) and ^{13}C (bottom) NMR spectra for compound **3** (THF- d_8 , 30°C)



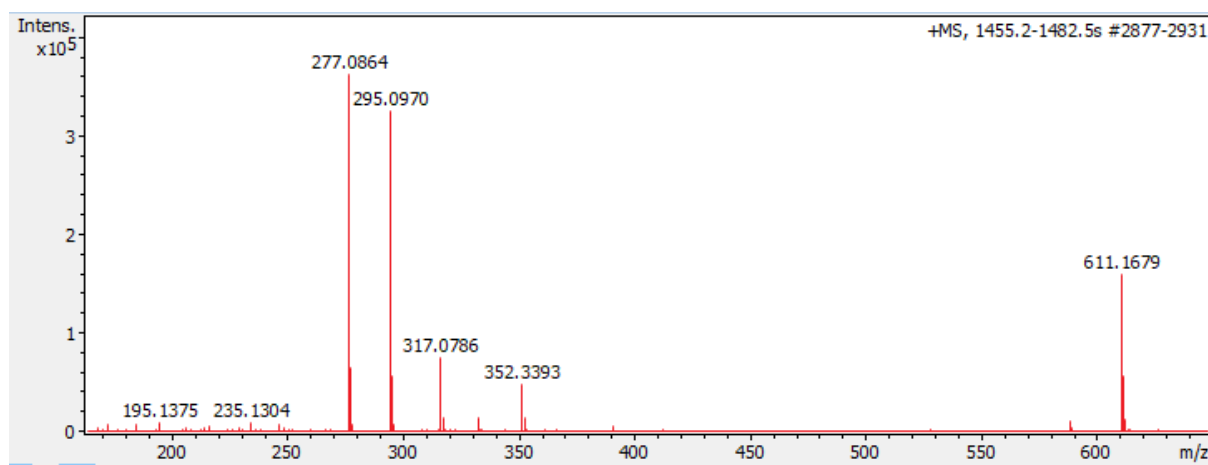
COSY (top) and HSQC (bottom) NMR spectra for compound **3** (THF- d_8 , 30°C)



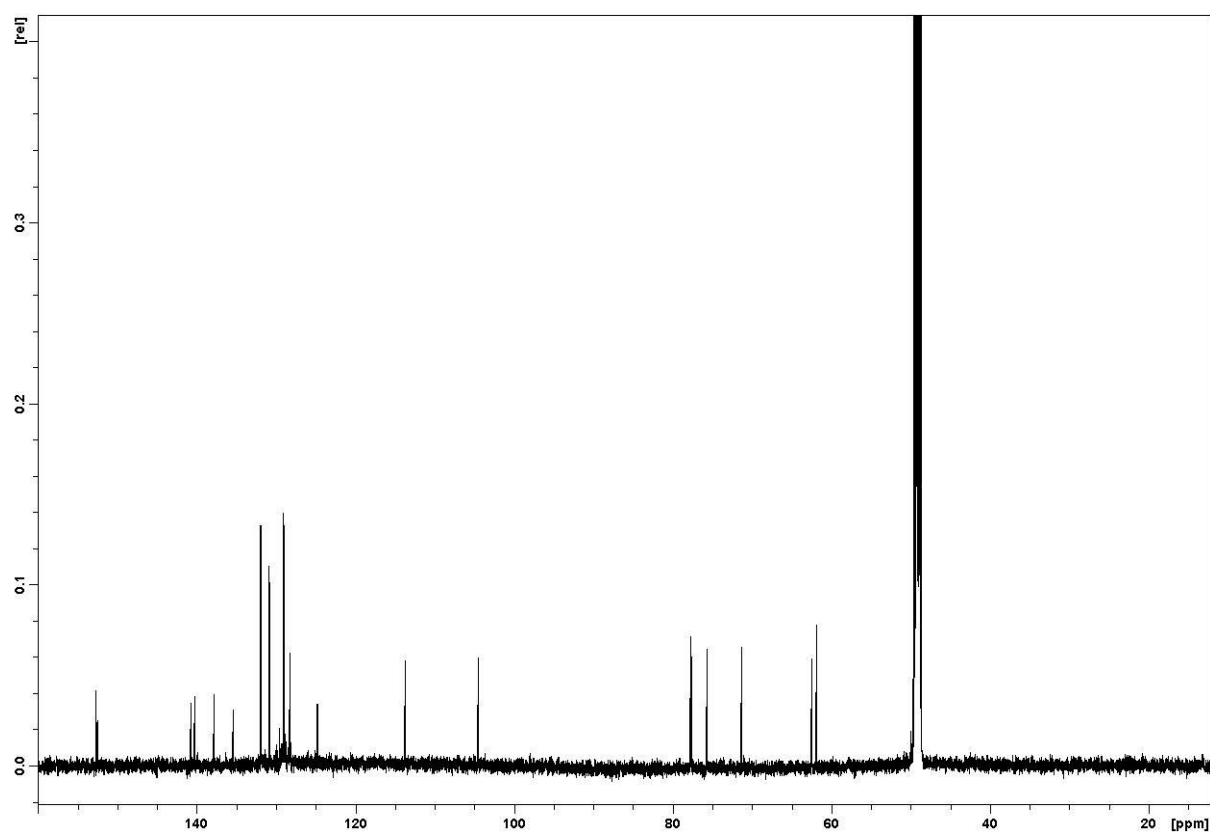
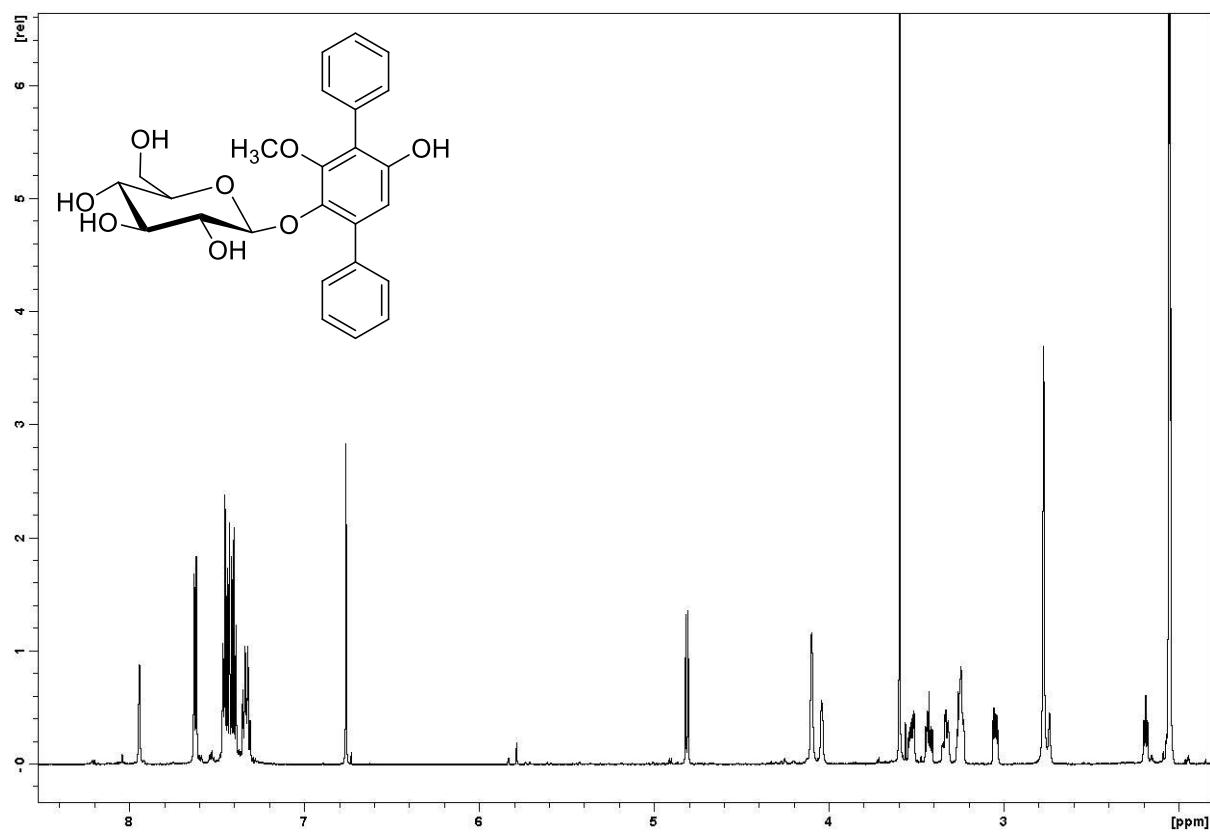
HMBC (top) and ROESY (bottom) NMR spectra for compound **3** (THF- d_8 , 30°C)



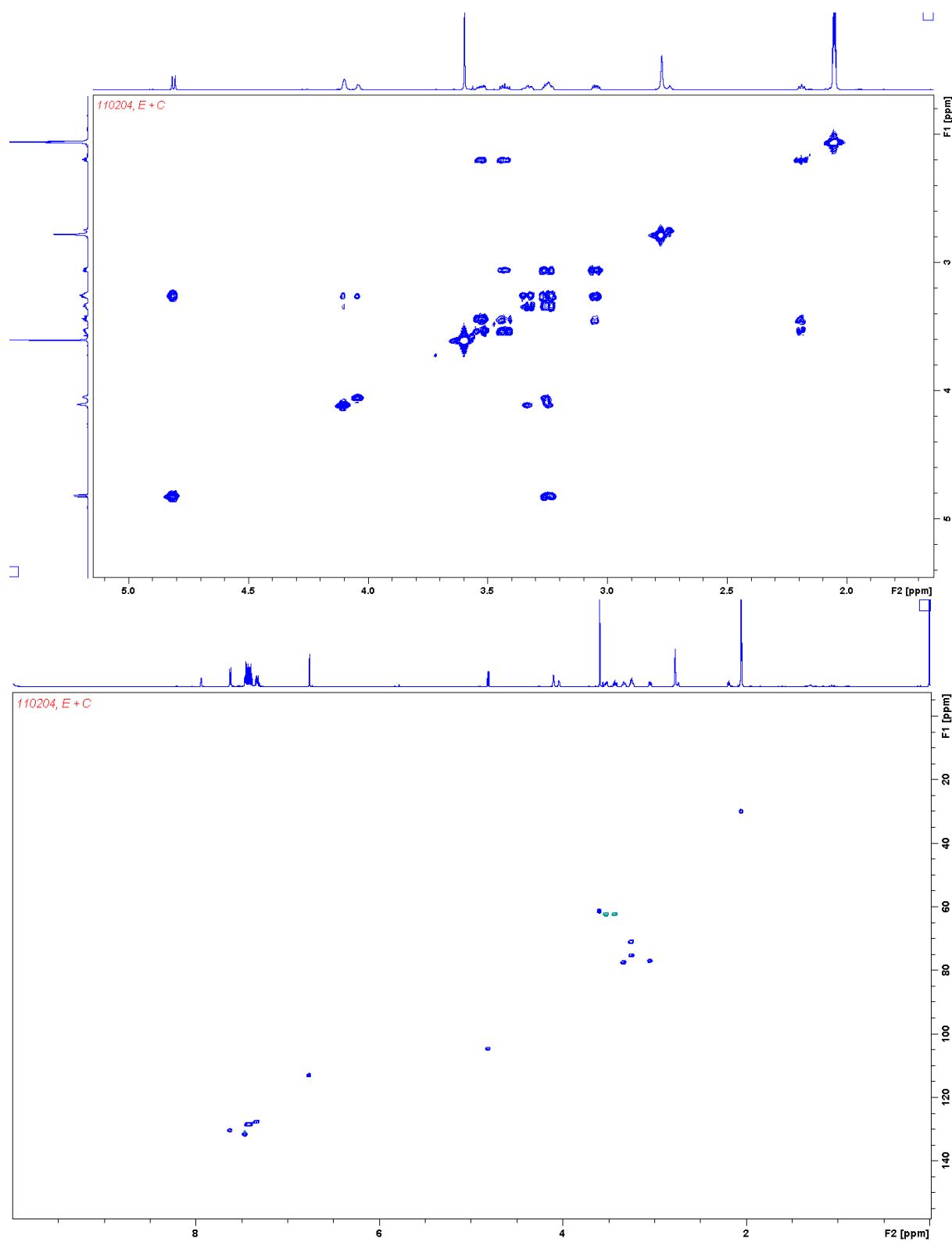
Mass spectrum for compound **3**. Major ions (from left to right): $[M+H-H_2O]^+$, $[M+H]^+$, $[M+Na]^+$ and $[2M+Na]^+$.



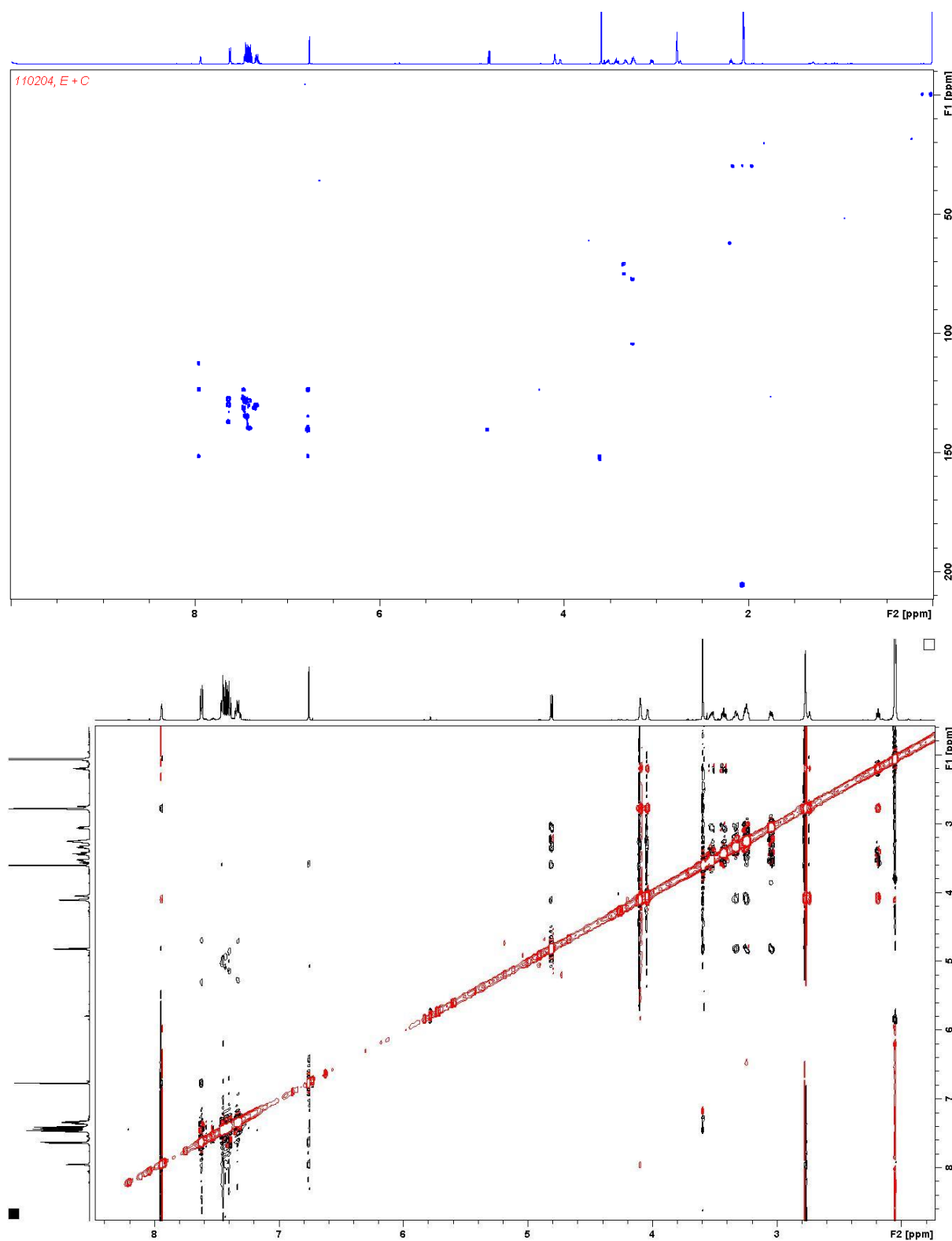
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COSY (top) and HSQC (bottom) NMR spectra for compound **4** (acetone- d_6 , 30°C)



HMBC (top) and ROESY (bottom) NMR spectra for compound **4** (acetone- d_6 , 30°C)



Mass spectrum for compound **4**. Major ions (from left to right): $[M+H-Glc]^+$, $[M+NH_4]^+$, and $[M+Na]^+$.

