

**Figure S1.** Compound **4**,  $^1\text{H}$  NMR 500 MHz in  $\text{CD}_3\text{OD}$

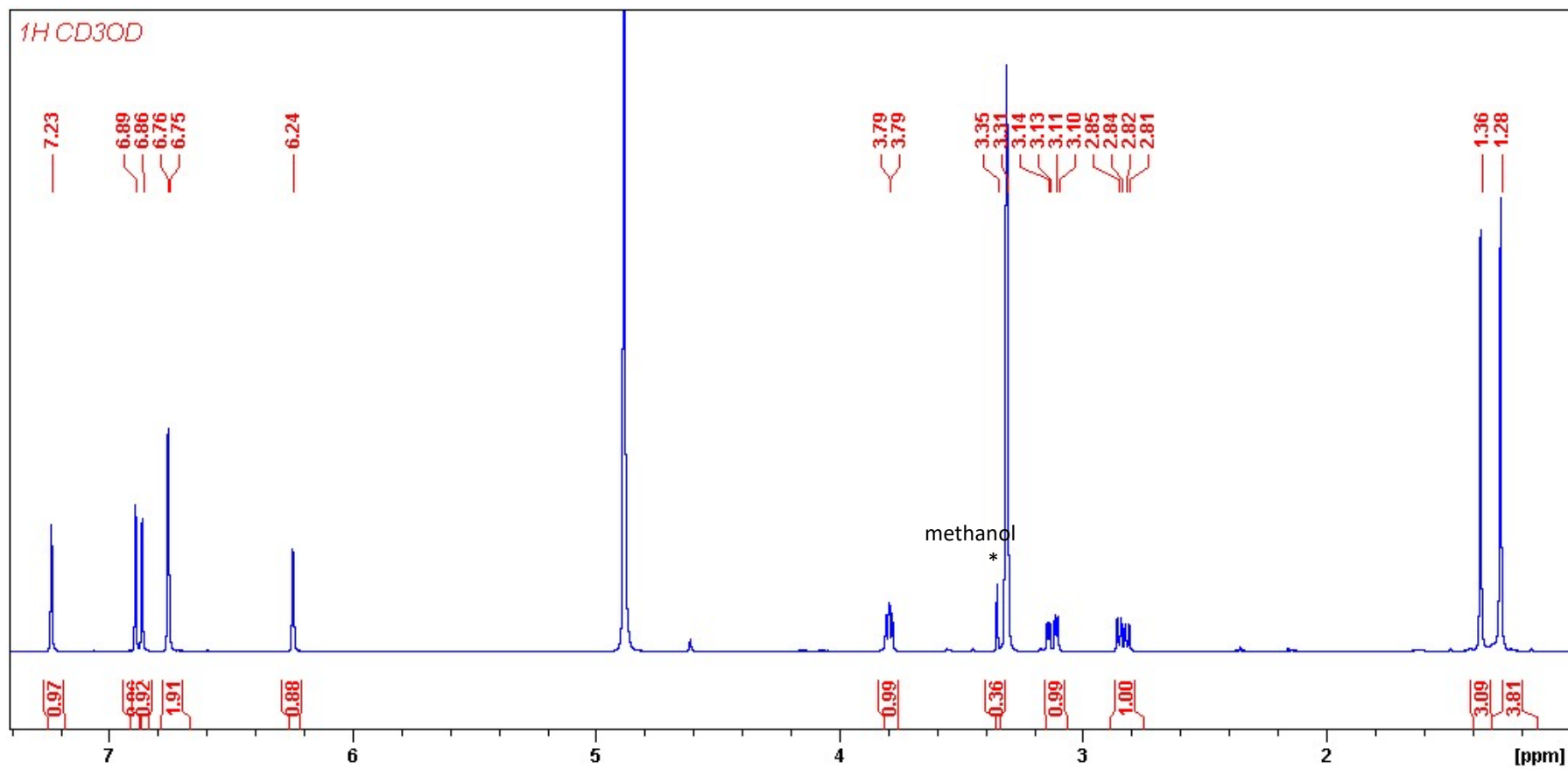
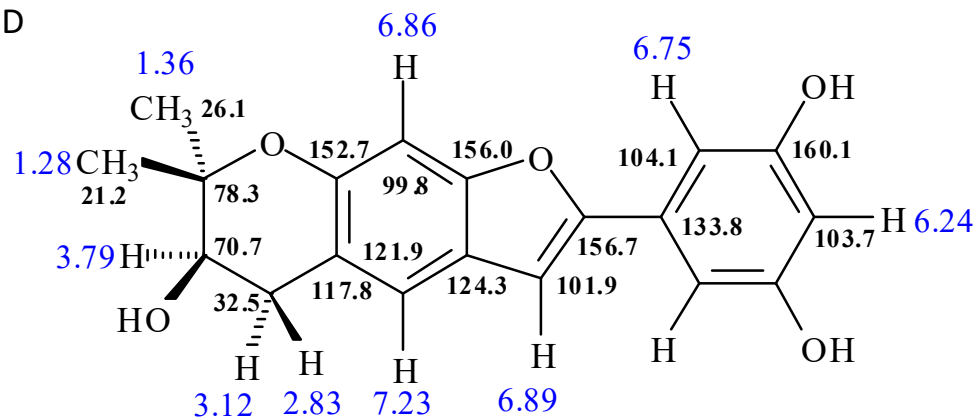


Figure S2. Compound 4,  $^{13}\text{C}$  APT NMR 125 MHz in  $\text{CD}_3\text{OD}$

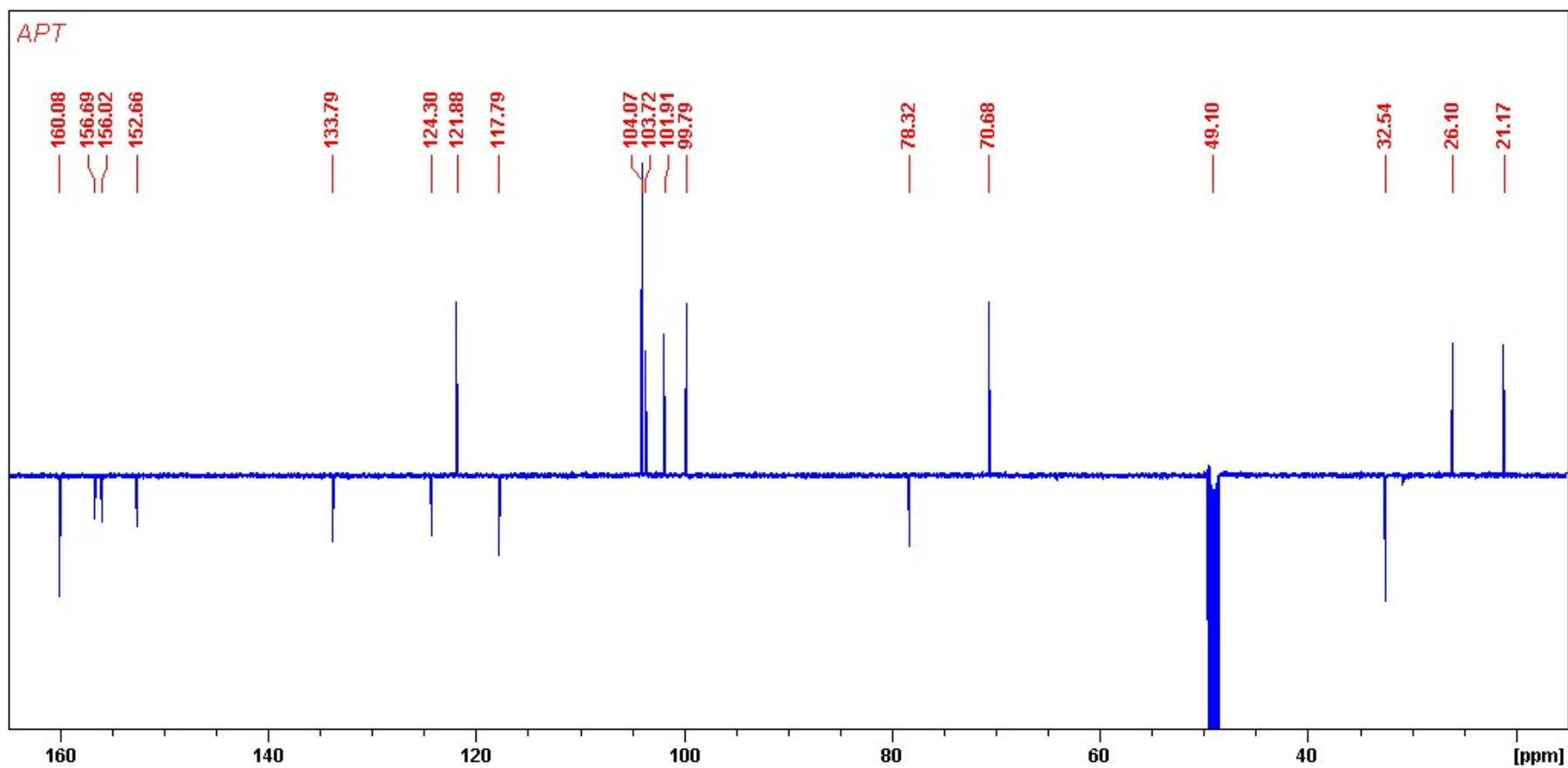
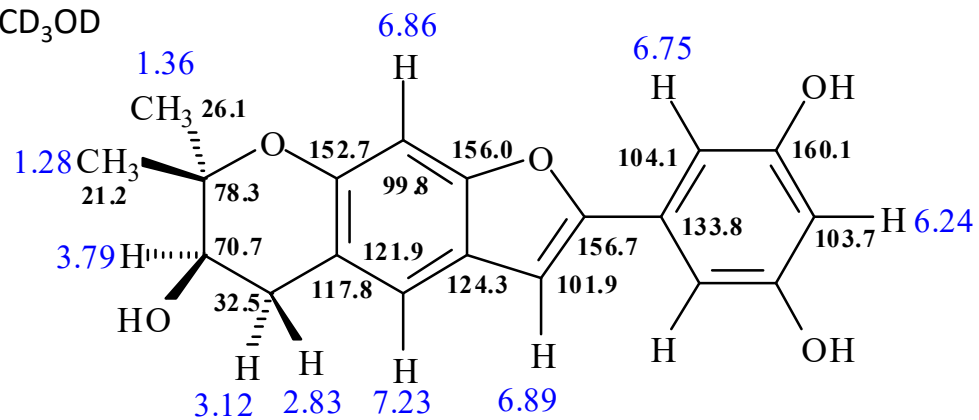


Figure S3. Compound 4, HSQC 500/125 MHz in CD<sub>3</sub>OD

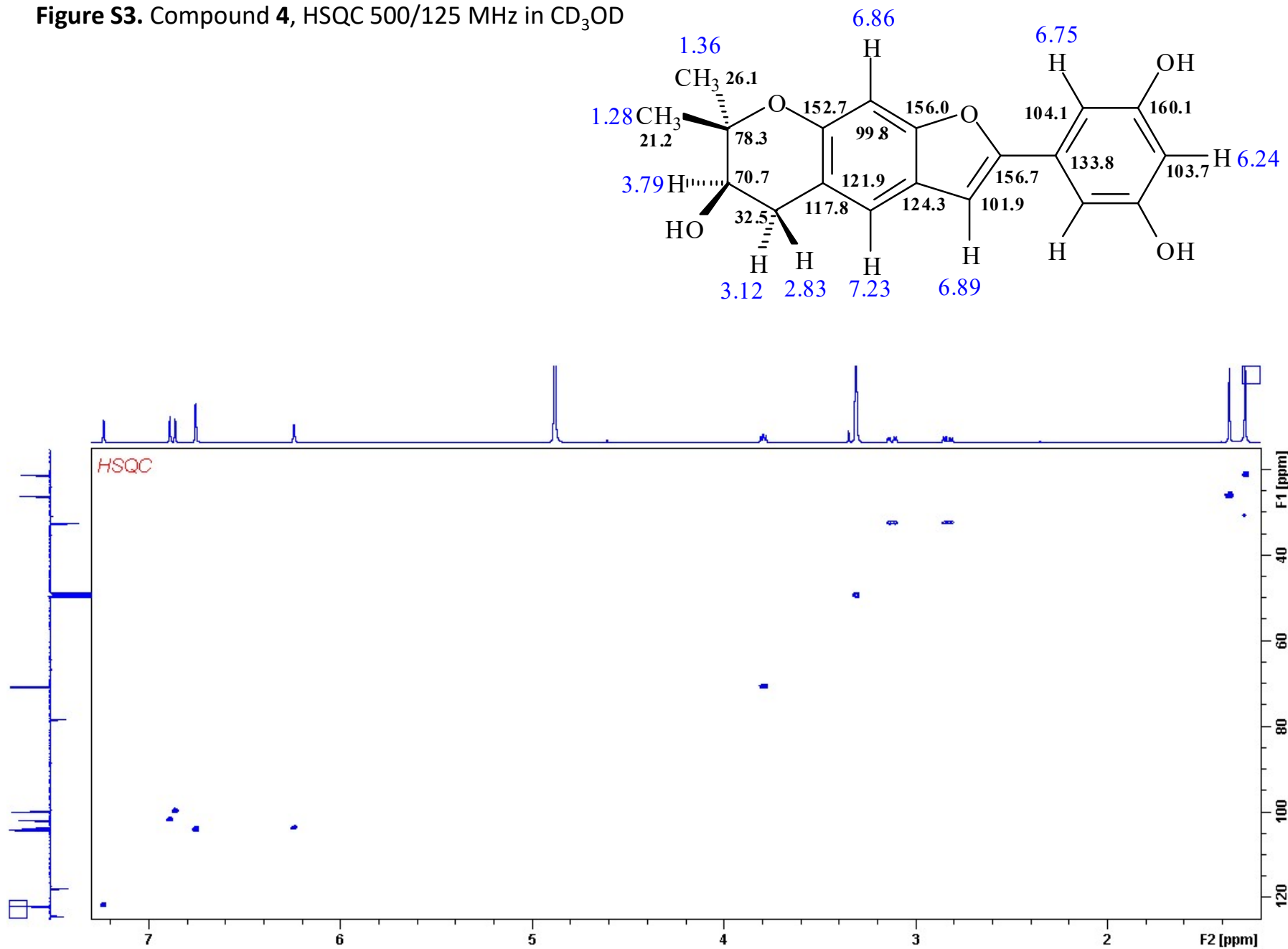


Figure S4. Compound 4, HMBC 500/125 MHz in CD<sub>3</sub>OD

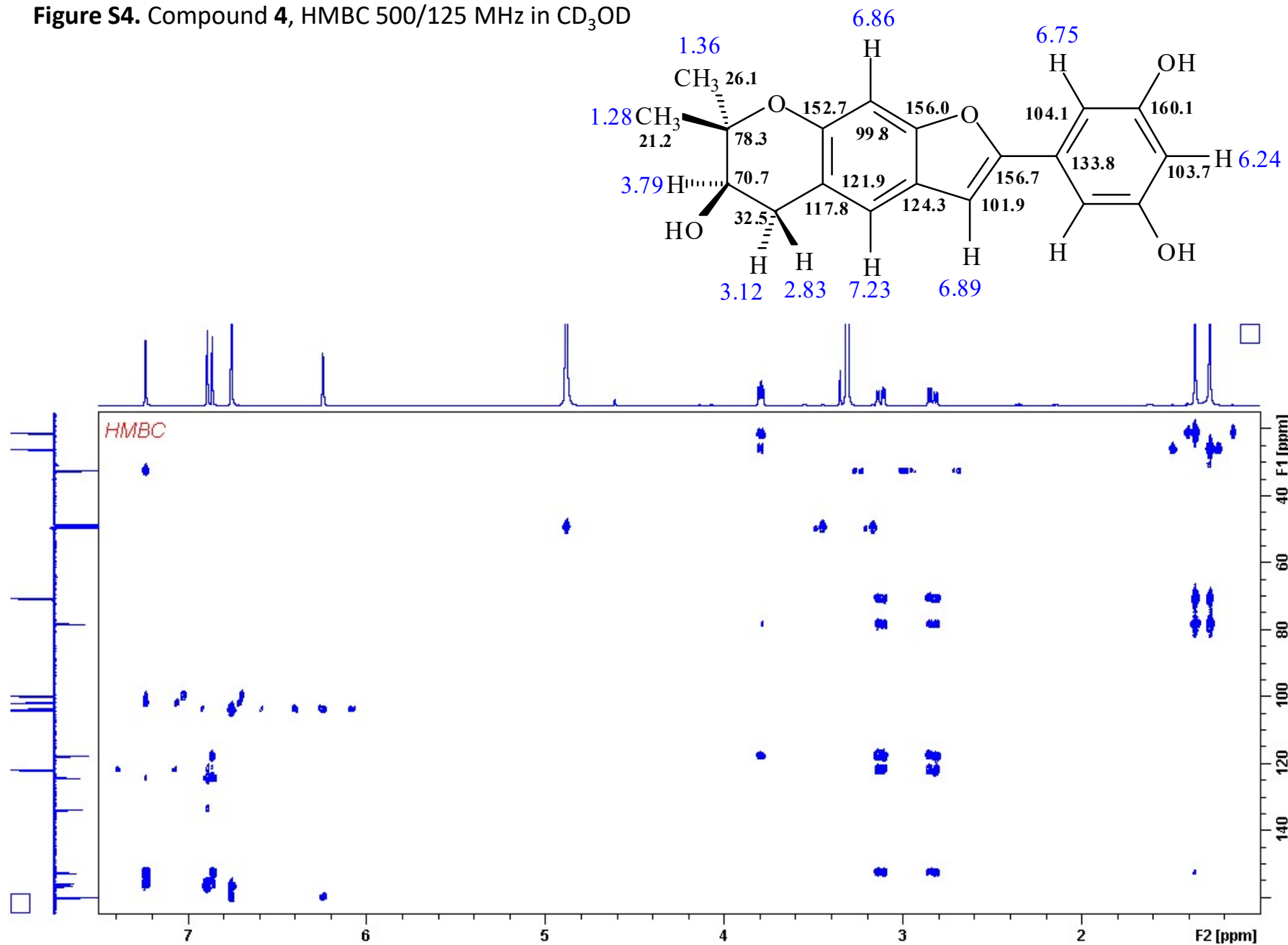
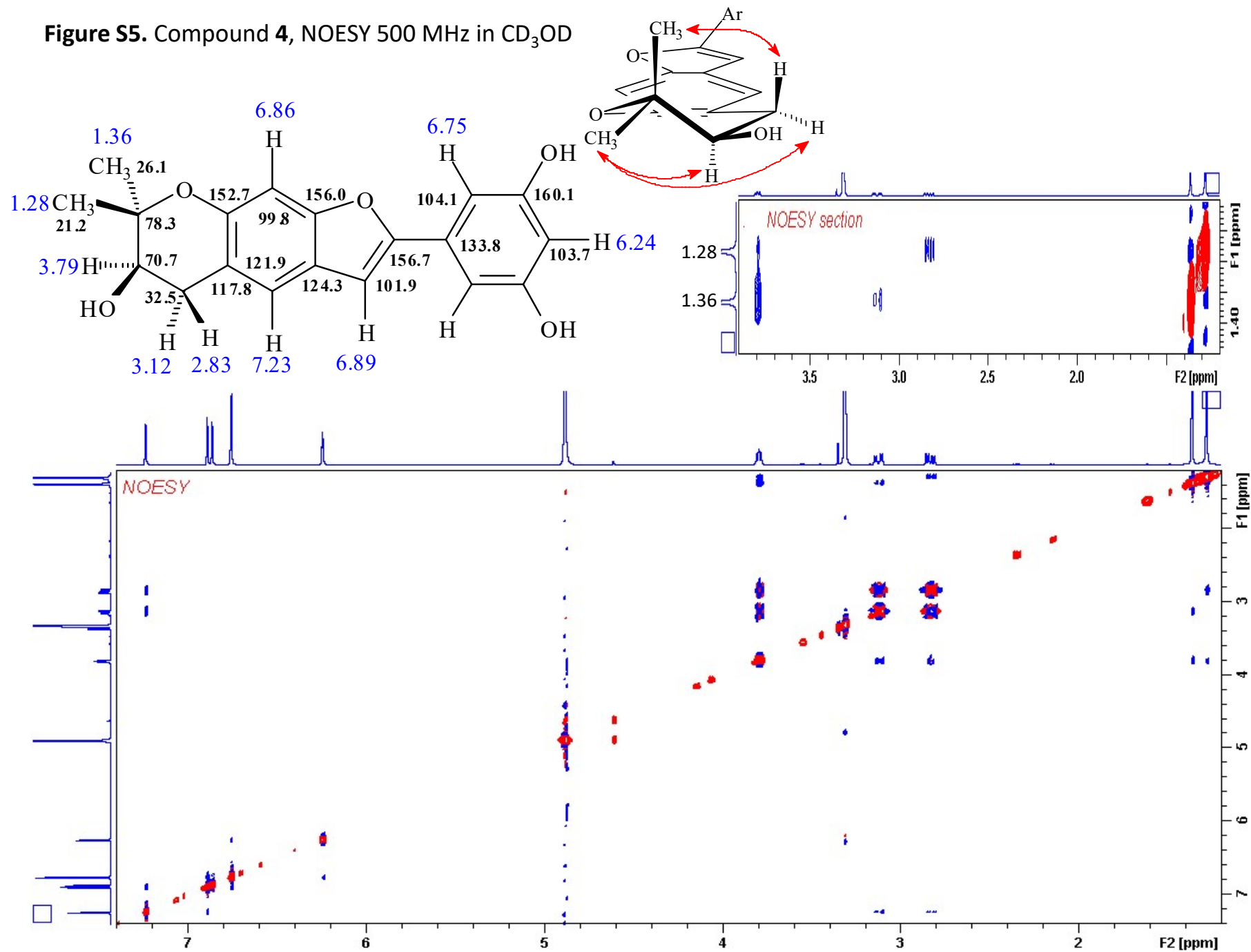


Figure S5. Compound 4, NOESY 500 MHz in CD<sub>3</sub>OD



**Figure S6.** Compound **5**,  $^1\text{H}$  NMR 500 MHz in  $\text{CD}_3\text{OD}$

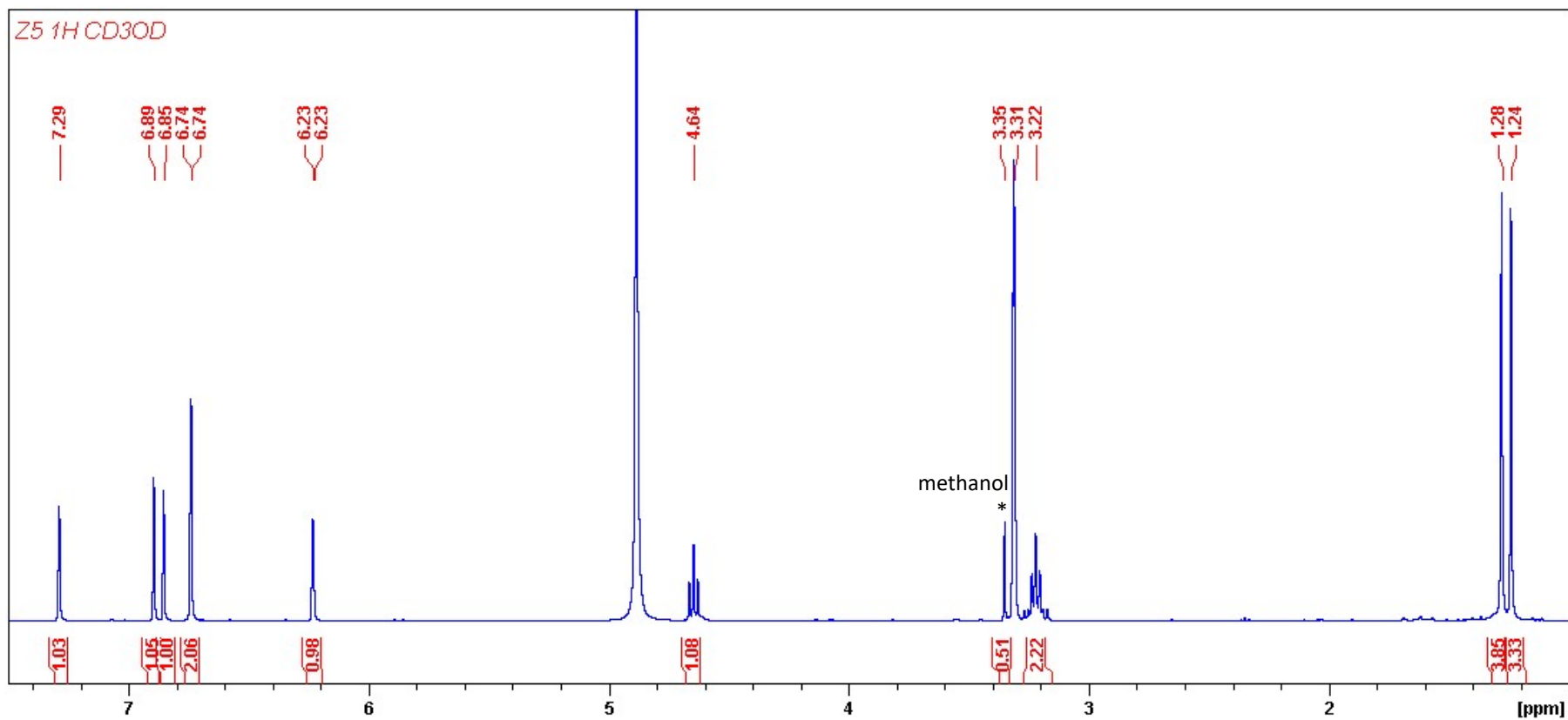
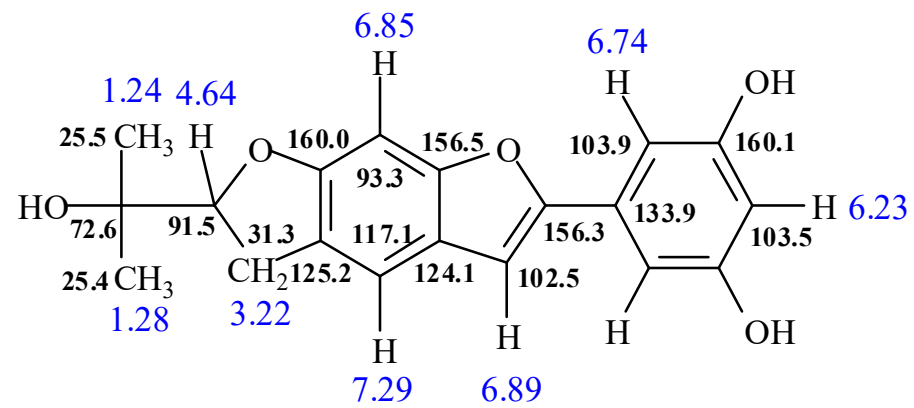


Figure S7. Compound 5,  $^{13}\text{C}$  APT NMR 125 MHz in  $\text{CD}_3\text{OD}$

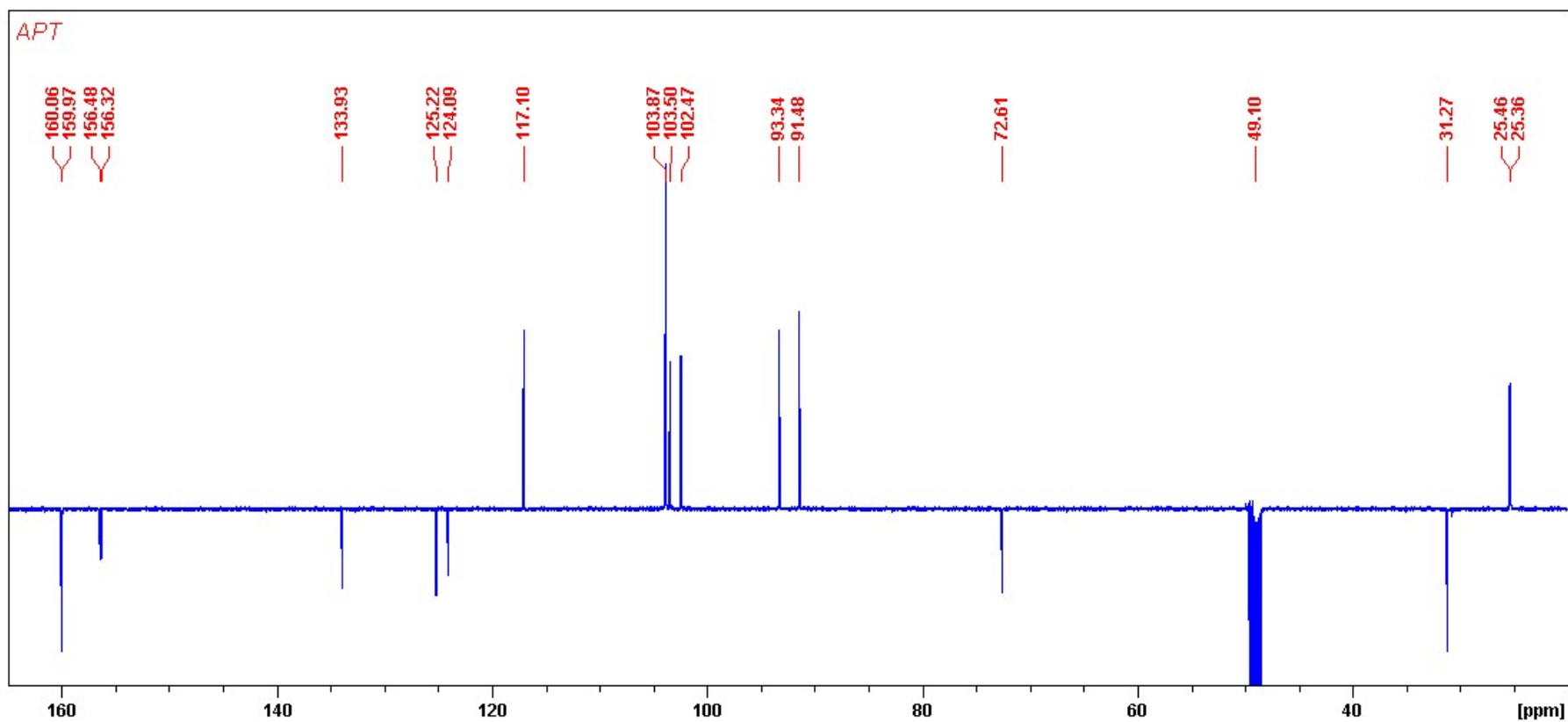
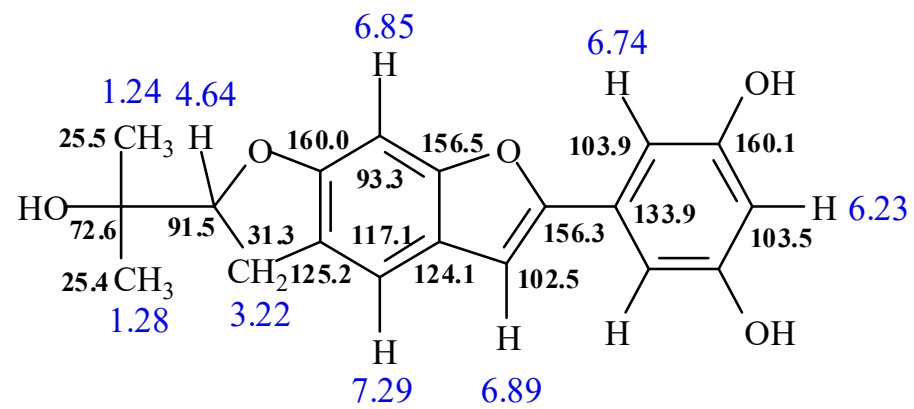


Figure S8. Compound 5, HSQC 500/125 MHz in CD<sub>3</sub>OD

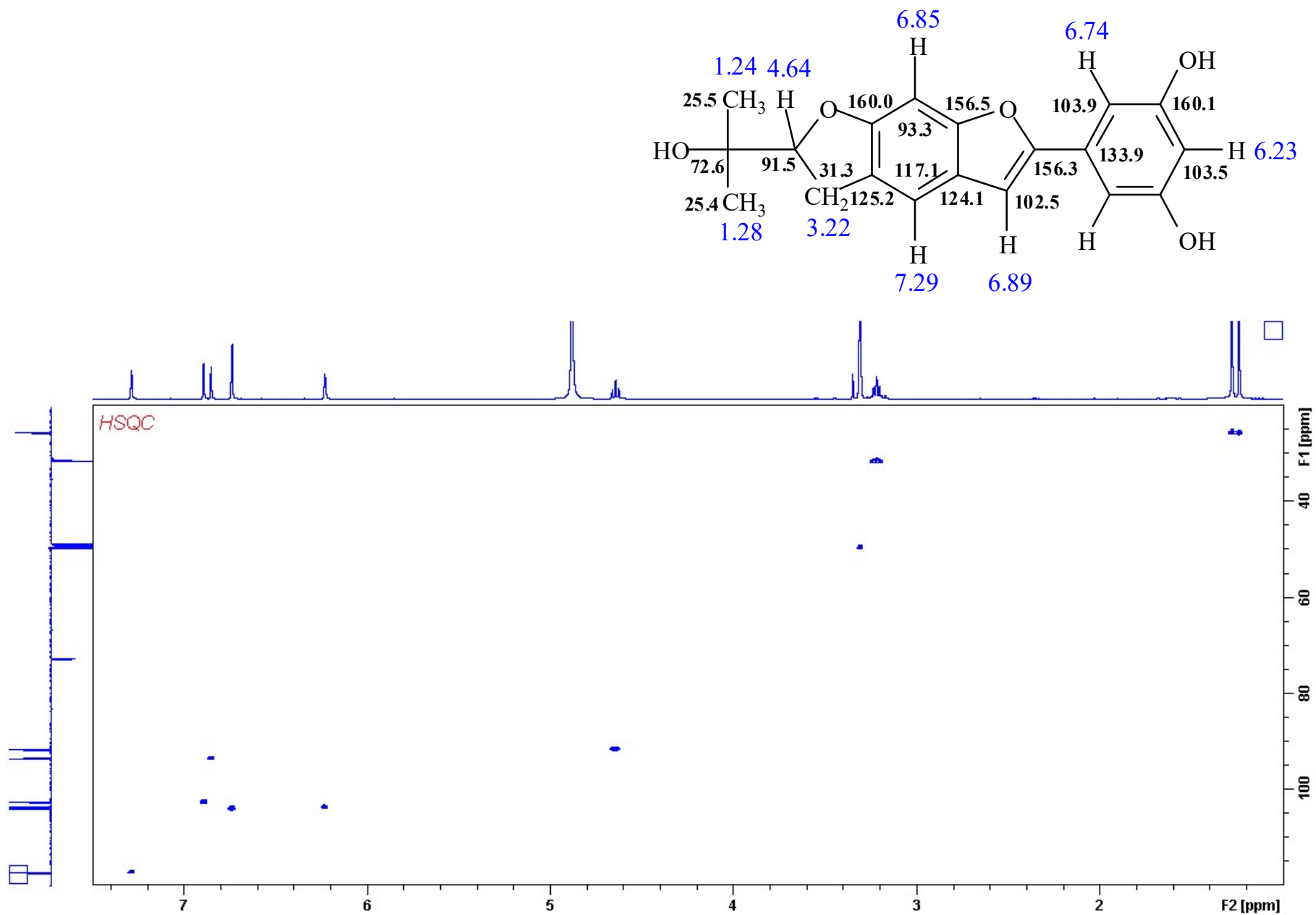
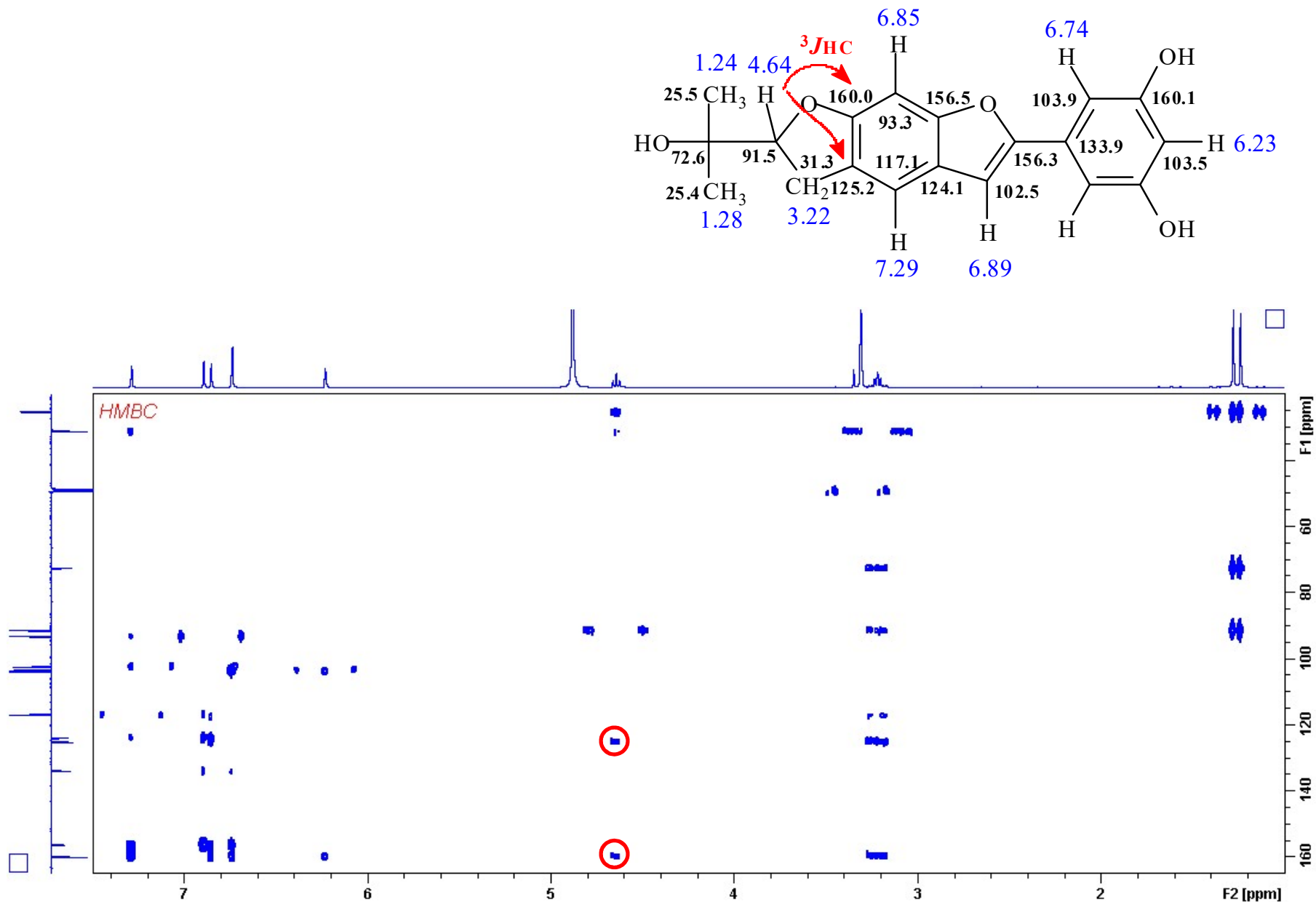
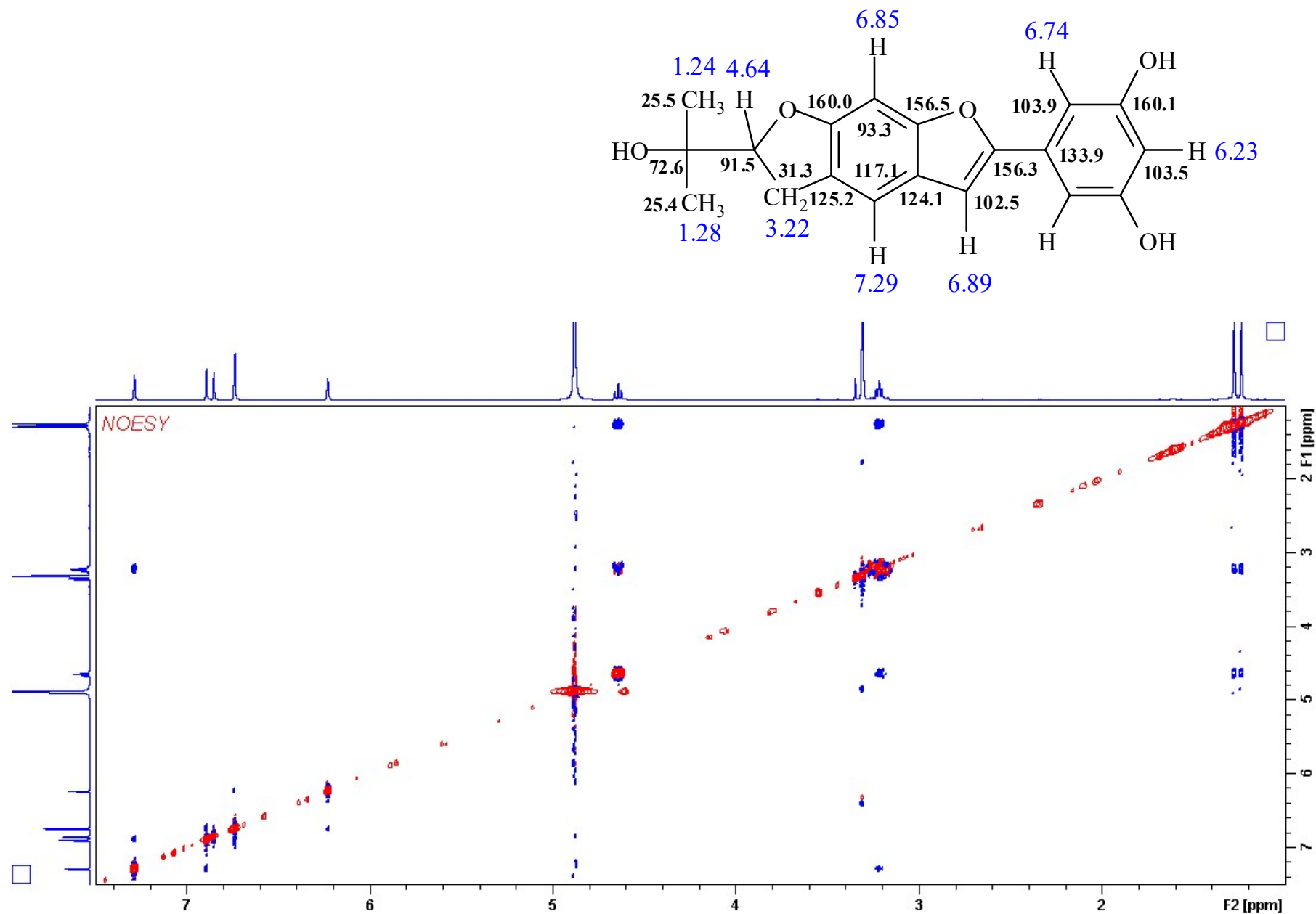




Figure S9. Compound 5, HMBC 500/125 MHz in CD<sub>3</sub>OD



**Figure S10.** Compound 5, NOESY 500 MHz in CD<sub>3</sub>OD



**Figure S11.** Compound **5**,  $^1\text{H}$  NMR 600 MHz in  $\text{DMSO-}d_6$

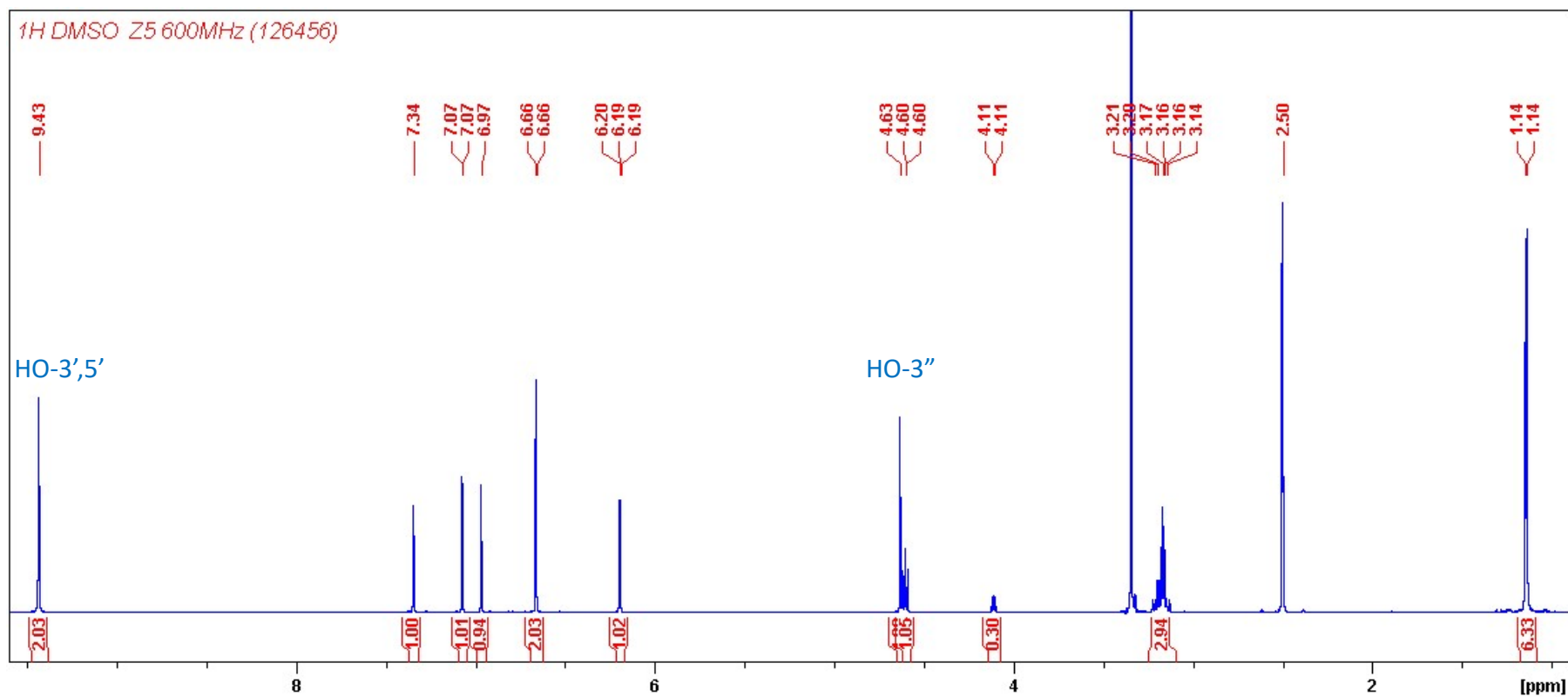
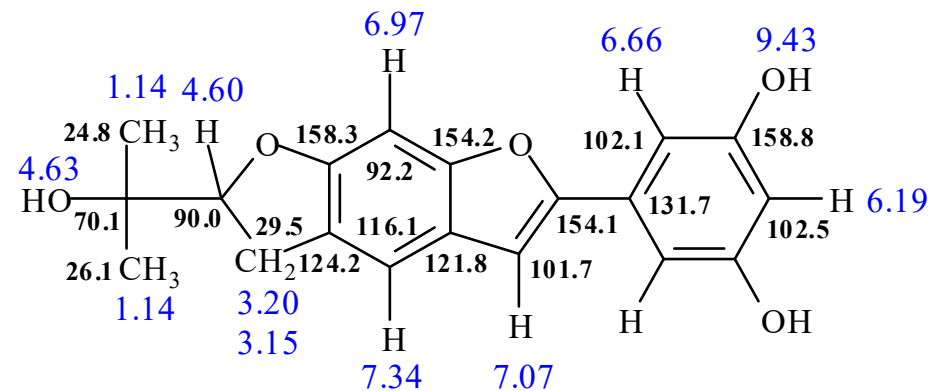


Figure S12. Compound 5,  $^{13}\text{C}$  NMR 150 MHz in  $\text{DMSO-}d_6$

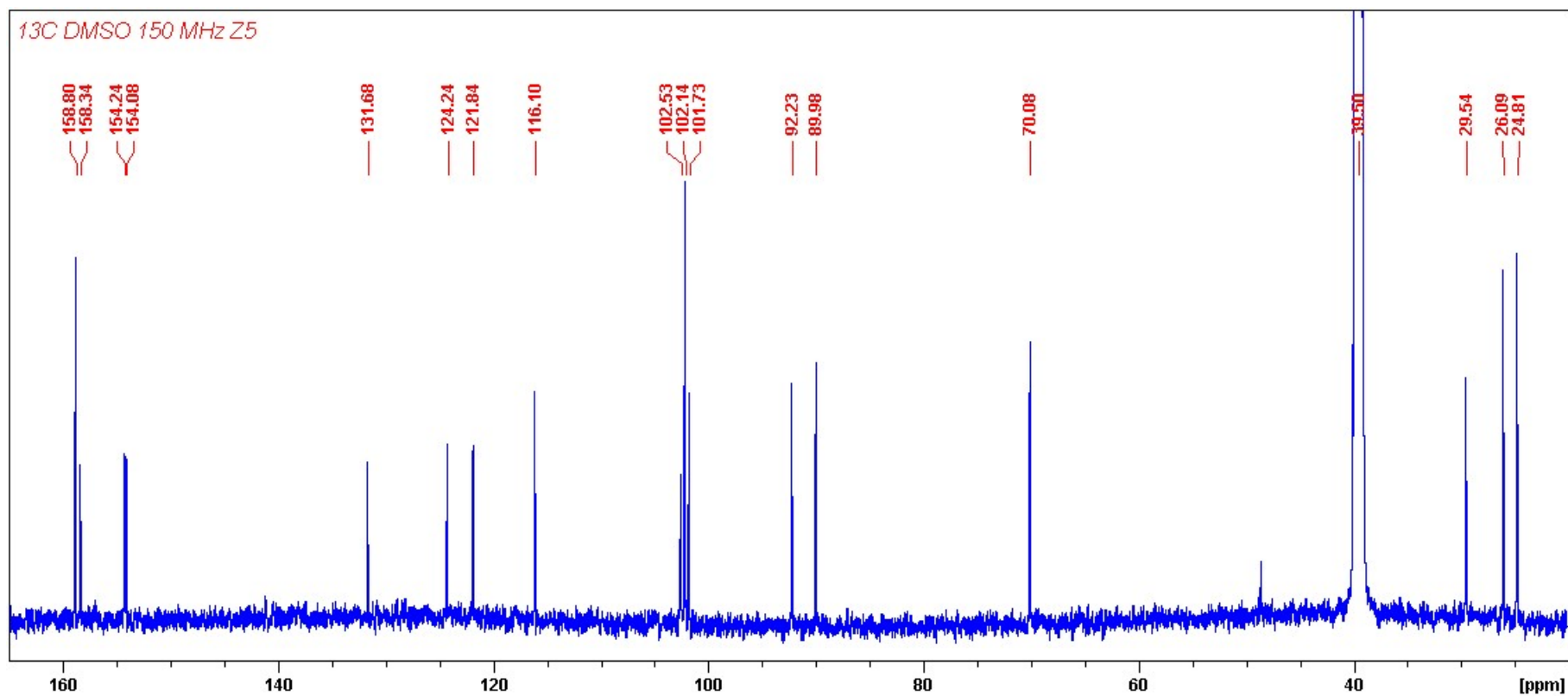
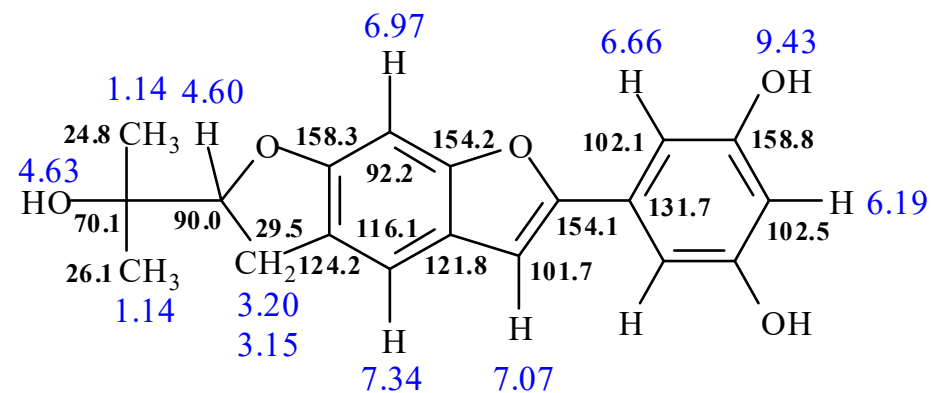
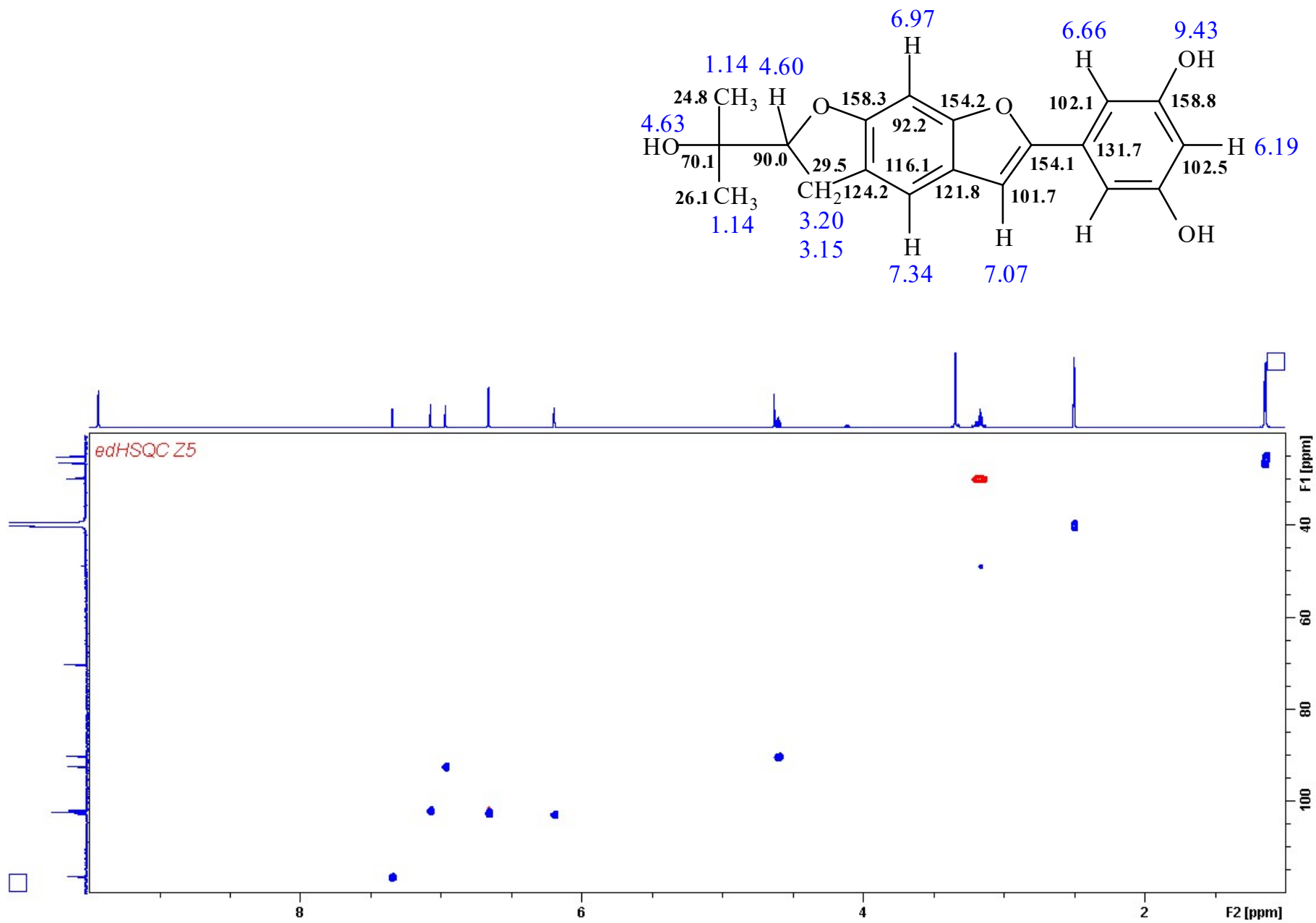
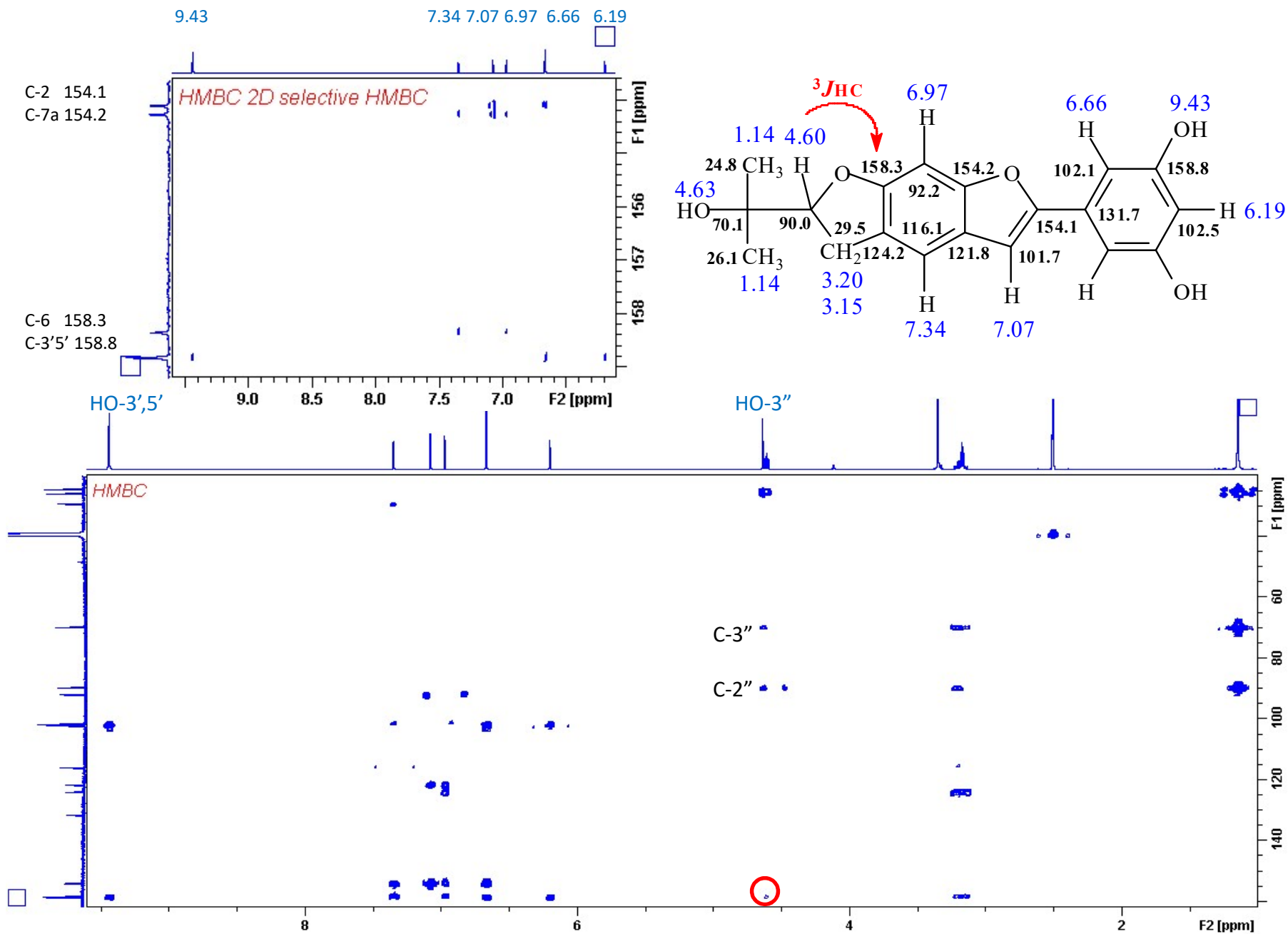


Figure S13. Compound 5, edHSQC 600/150 MHz in DMSO- $d_6$



**Figure S14.** Compound 5, HMBC and selHMBC 600/150 MHz in DMSO- $d_6$



**Figure S15.** Compound 1, HRESI-MS

ZM\_001 #1051-1095 RT: 6.31-6.55 AV: 8 NL: 5.72E8  
T: FTMS + p ESI Full ms [100.00-1500.00]

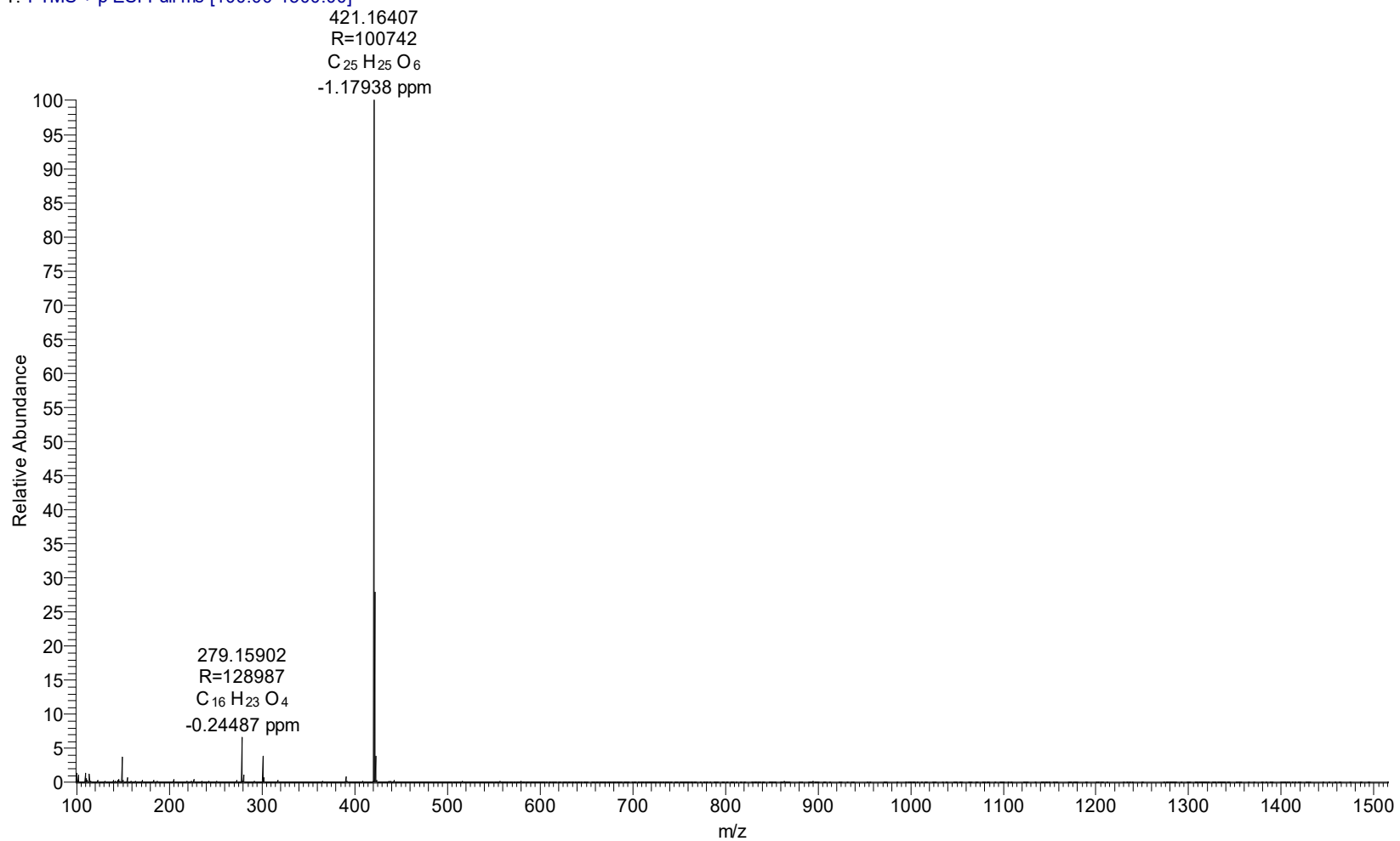
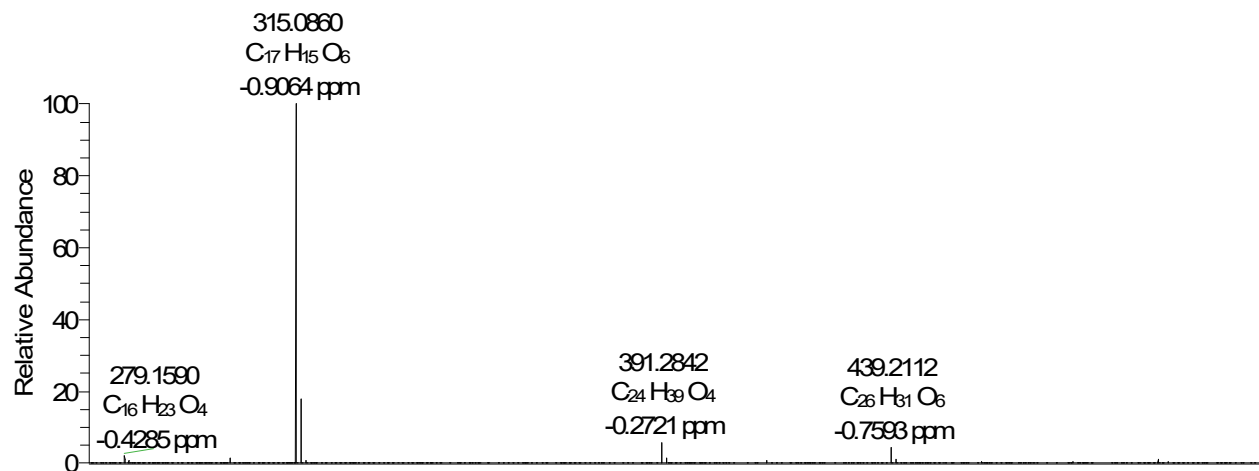
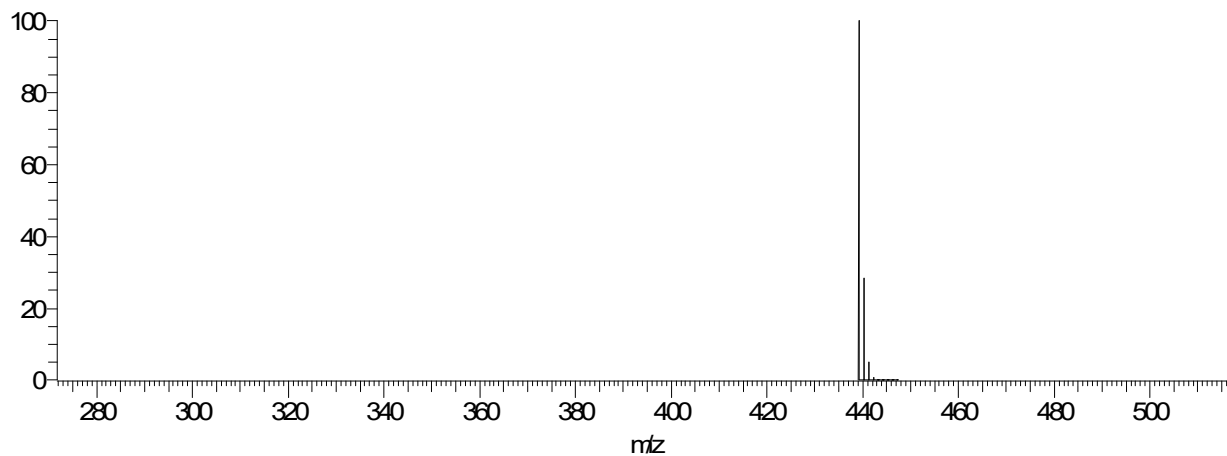


Figure S16. Compound 2, HRESI-MS



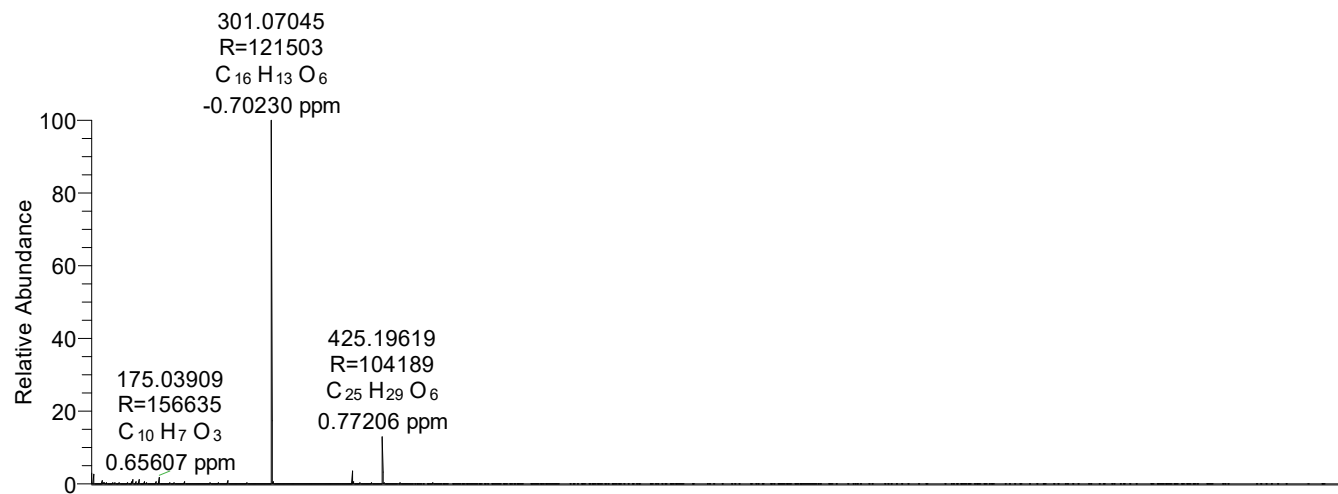
N:  
1.53E8  
ZM 002#1087 RT: 6.77 AV:  
1 T: FTMS+pESI Full ms  
[100.00-1500.00]



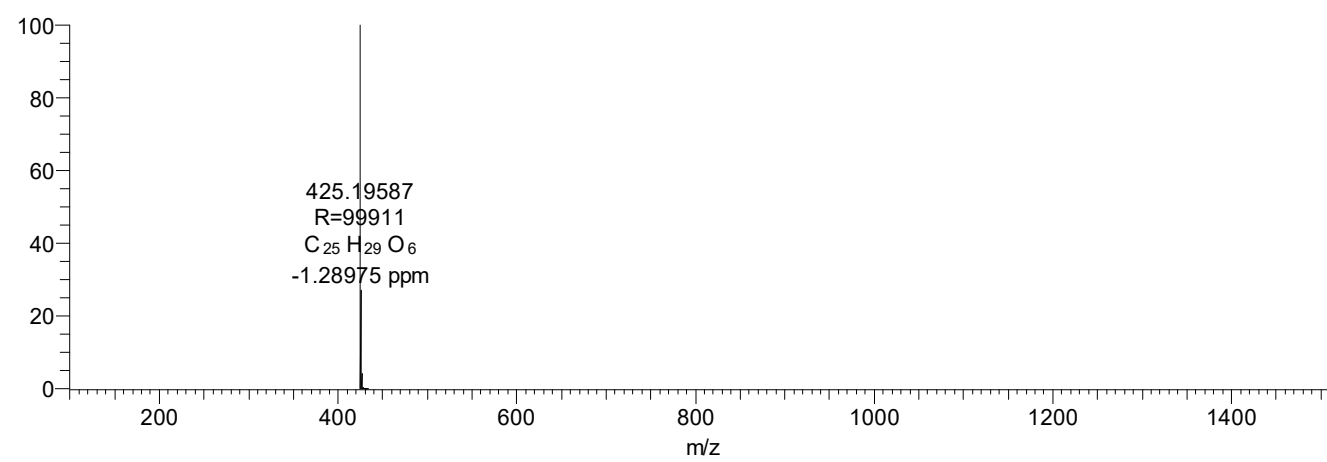
N:  
1.74E4  
C<sub>26</sub>H<sub>30</sub>O<sub>6</sub>+H  
C<sub>26</sub>H<sub>31</sub>O<sub>6</sub>  
p(gss, s/p40) Chrg 1  
R 50000 Res. Pwr. @FWHM



Figure S17. Compound 3, HRESI-MS



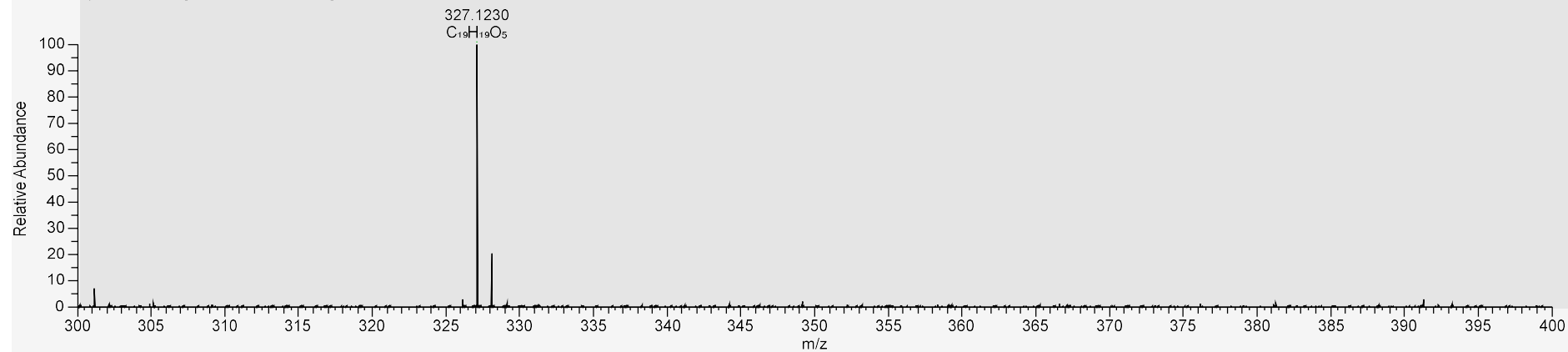
NL:  
2.26E8  
ZM\_003#949-976 RT:  
5.87-6.01 AV: 5 T: FTMS + p  
ESI Full ms [100.00-1500.00]



NL:  
1.76E4  
C<sub>25</sub>H<sub>28</sub>O<sub>6</sub> +H:  
C<sub>25</sub>H<sub>29</sub>O<sub>6</sub>  
p (gss, s /p:40) Chrg 1  
R: 100000 Res .Pwr . @FWHM

**Figure S19.** HRESI-MS of compound **4**, (above) and compound **5** (below)

Moracin\_P #10 RT: 0.24 AV: 1 NL: 8.13E+007  
T: FTMS + p ESI Full ms [150.0000-2000.0000]



Moracin\_R #10 RT: 0.23 AV: 1 NL: 9.02E+008  
T: FTMS + p ESI Full ms [150.0000-2000.0000]

