

A New Pathway for the Synthesis of a New Class of Blue Fluorescent Benzofuran Derivatives

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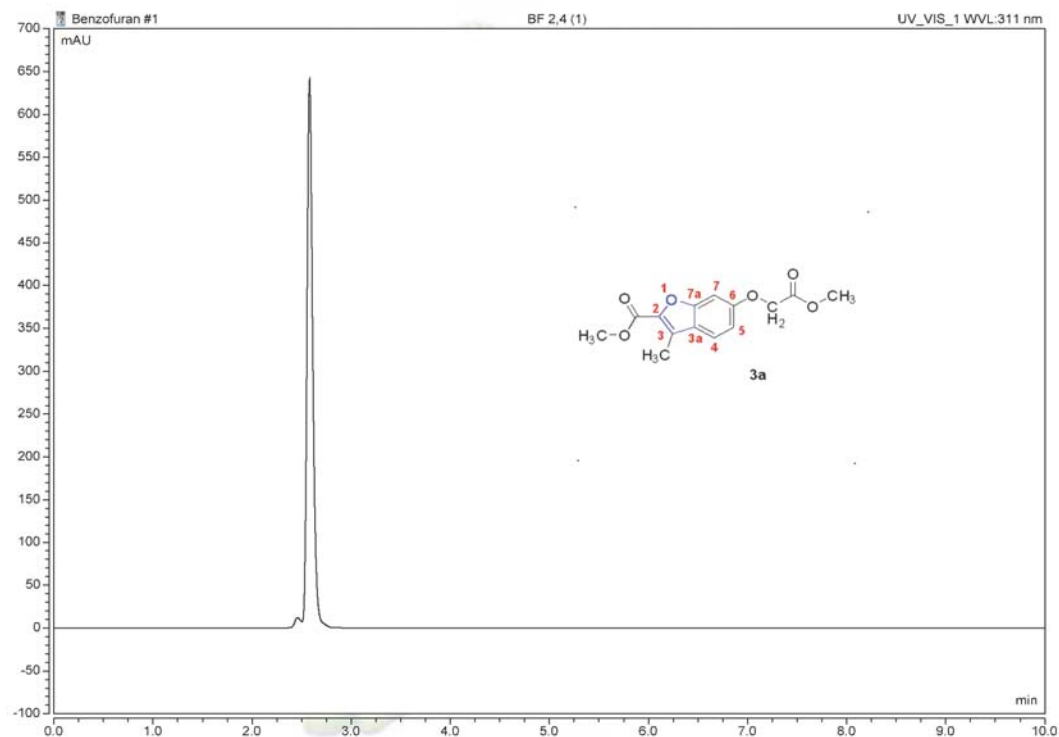
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1. HPLC chromatograms of the obtained compounds.

Sequence: Benzofuran
Injection #1: BF 2.4 (1)

Chromatogram



Chromleon 7,
Version 7.2.6.10049, Thermo Fisher Scientific

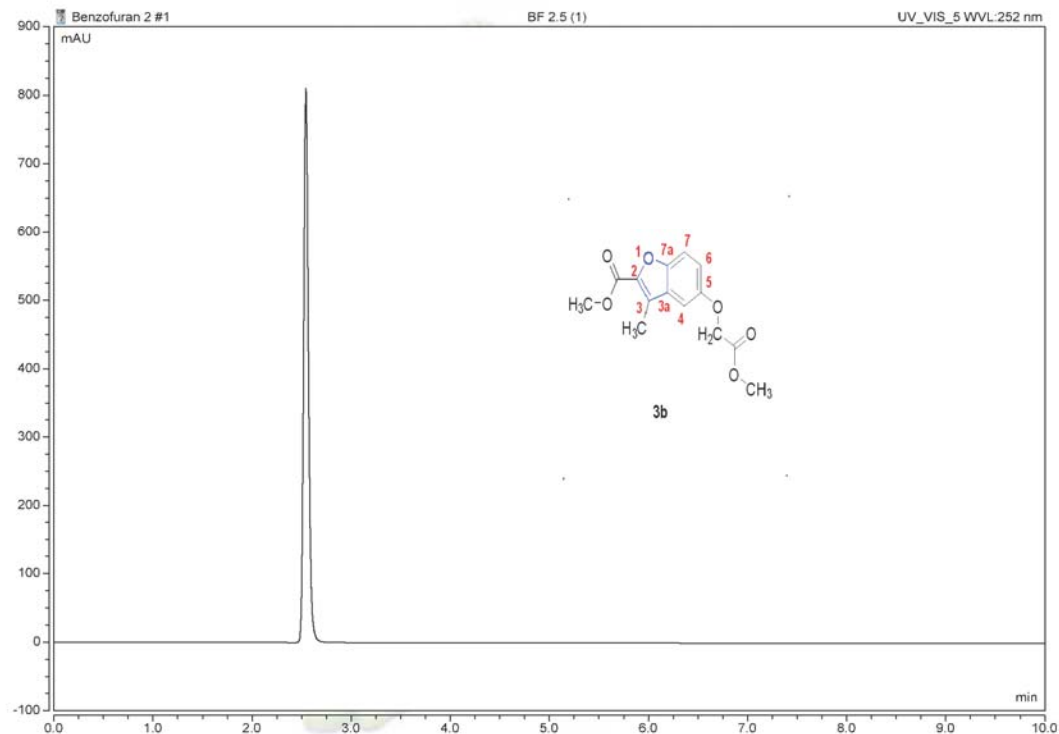
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S1 Fig. HPLC chromatogram of the compound **3a**.

Sequence: Benzofuran 2
Injection #1: BF 2.5 (1)

Chromatogram

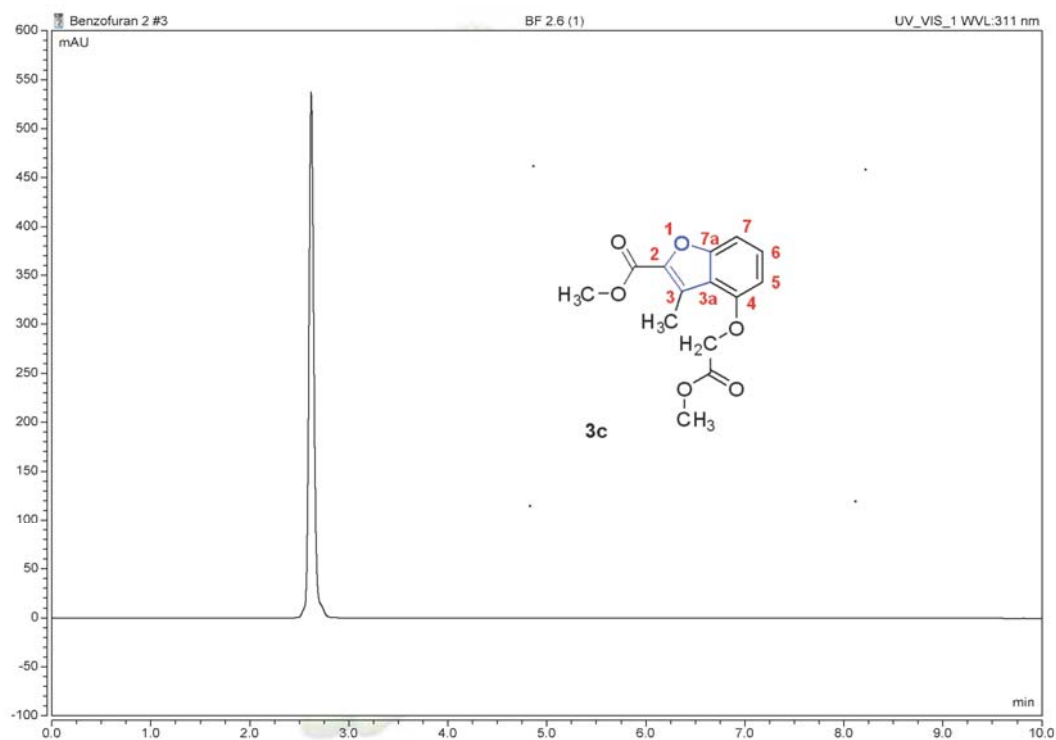


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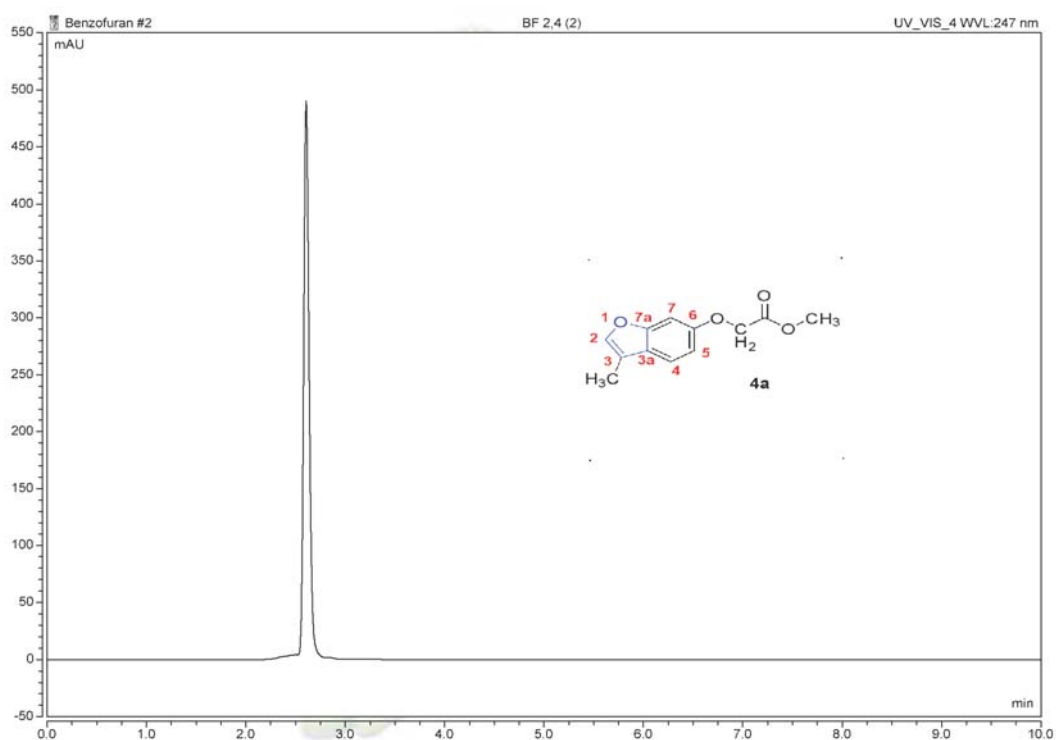
S2 Fig. HPLC chromatogram of the compound **3b**.



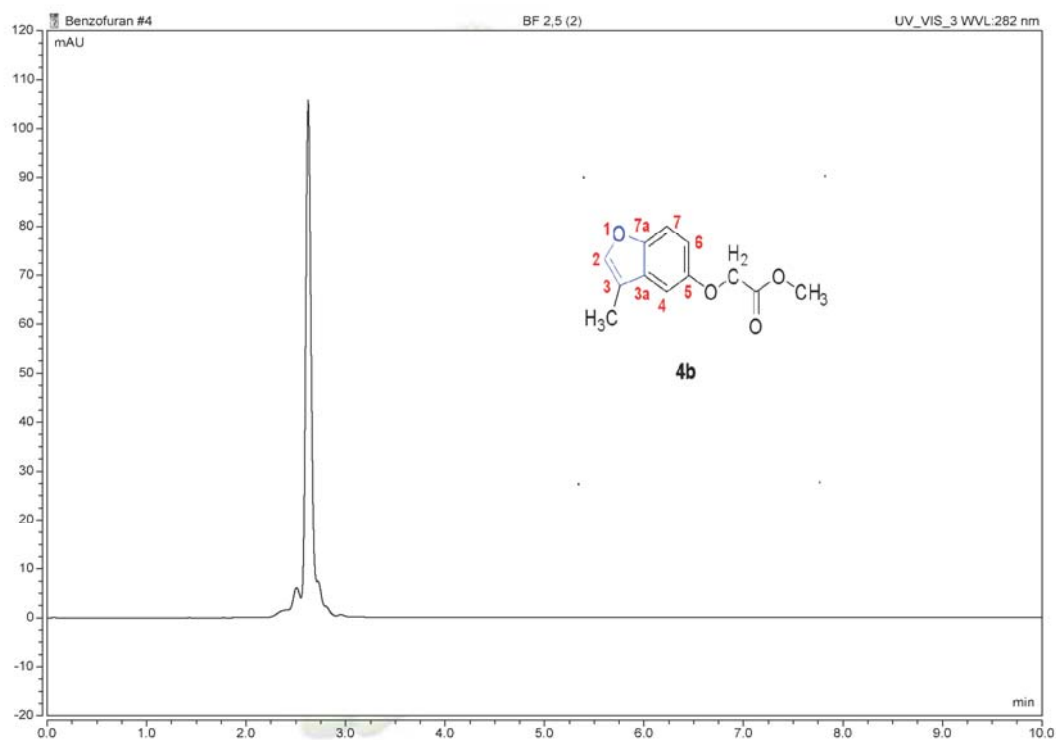
S3 Fig. HPLC chromatogram of the compound 3c.

Sequence: Benzofuran
Injection #2: BF 2.4 (2)

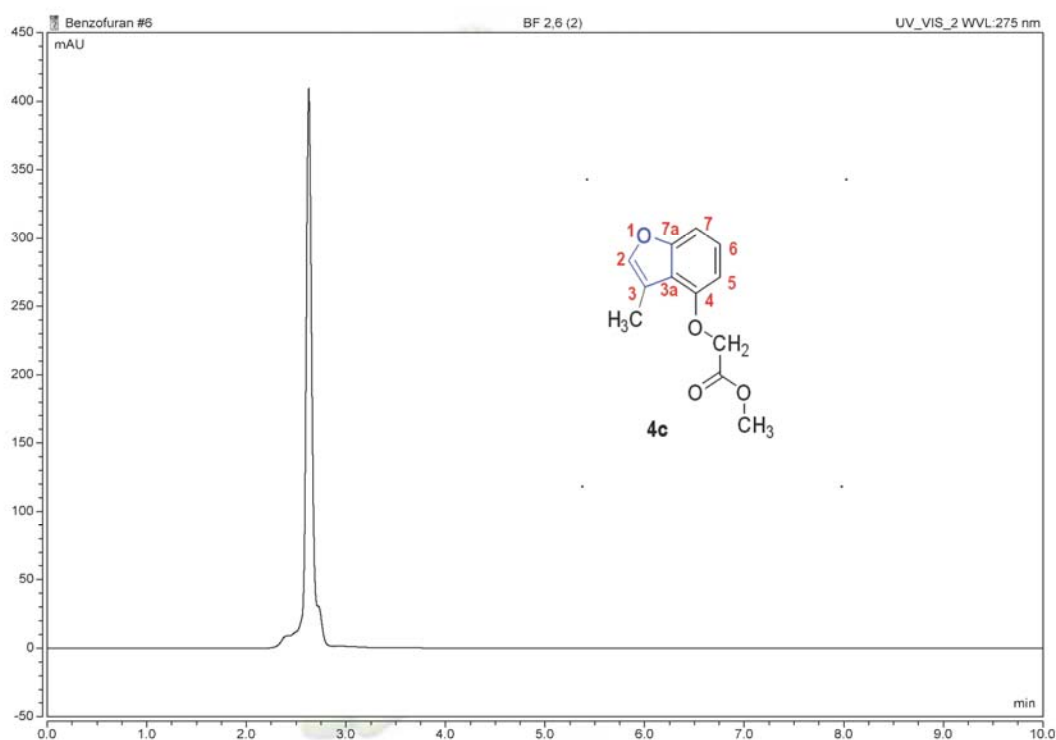
Chromatogram



S4 Fig. HPLC chromatogram of the compound 4a.

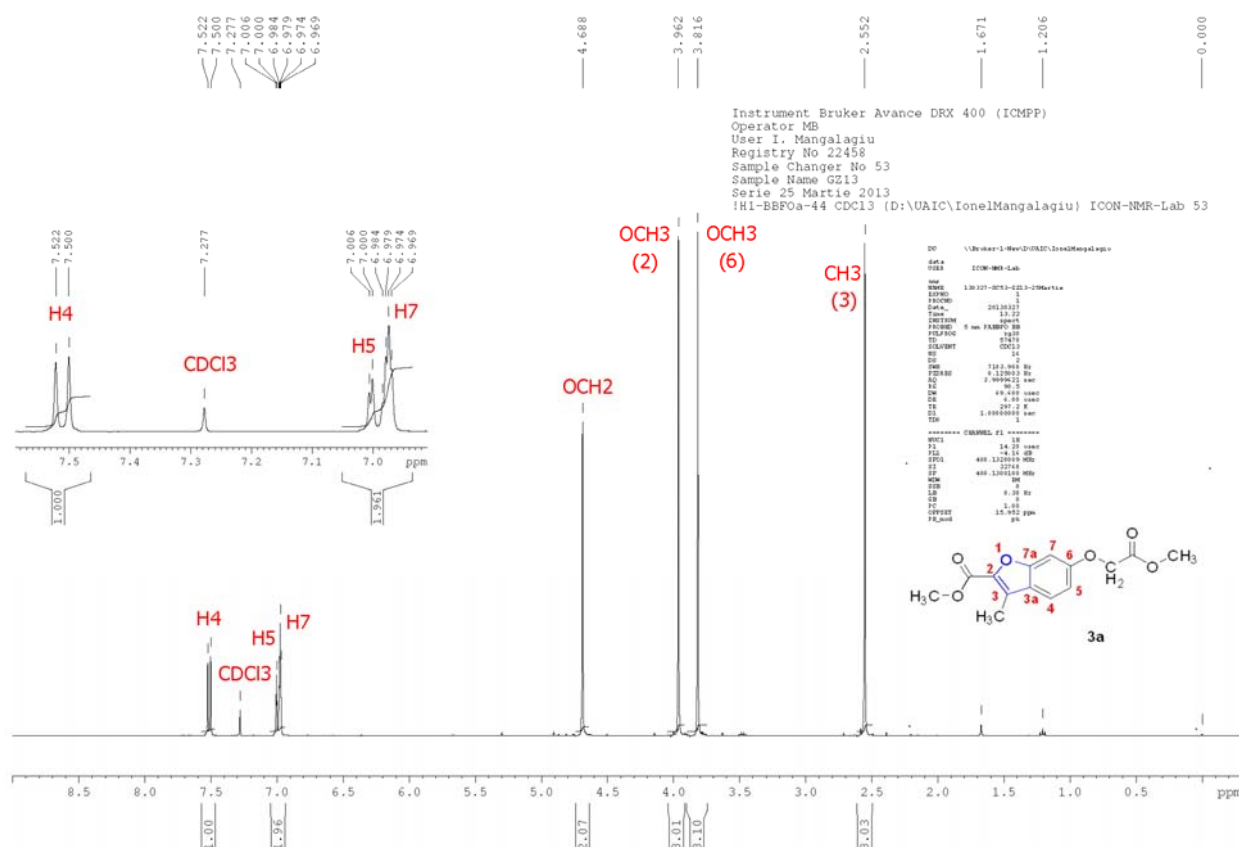


S5 Fig. HPLC chromatogram of the compound 4b.

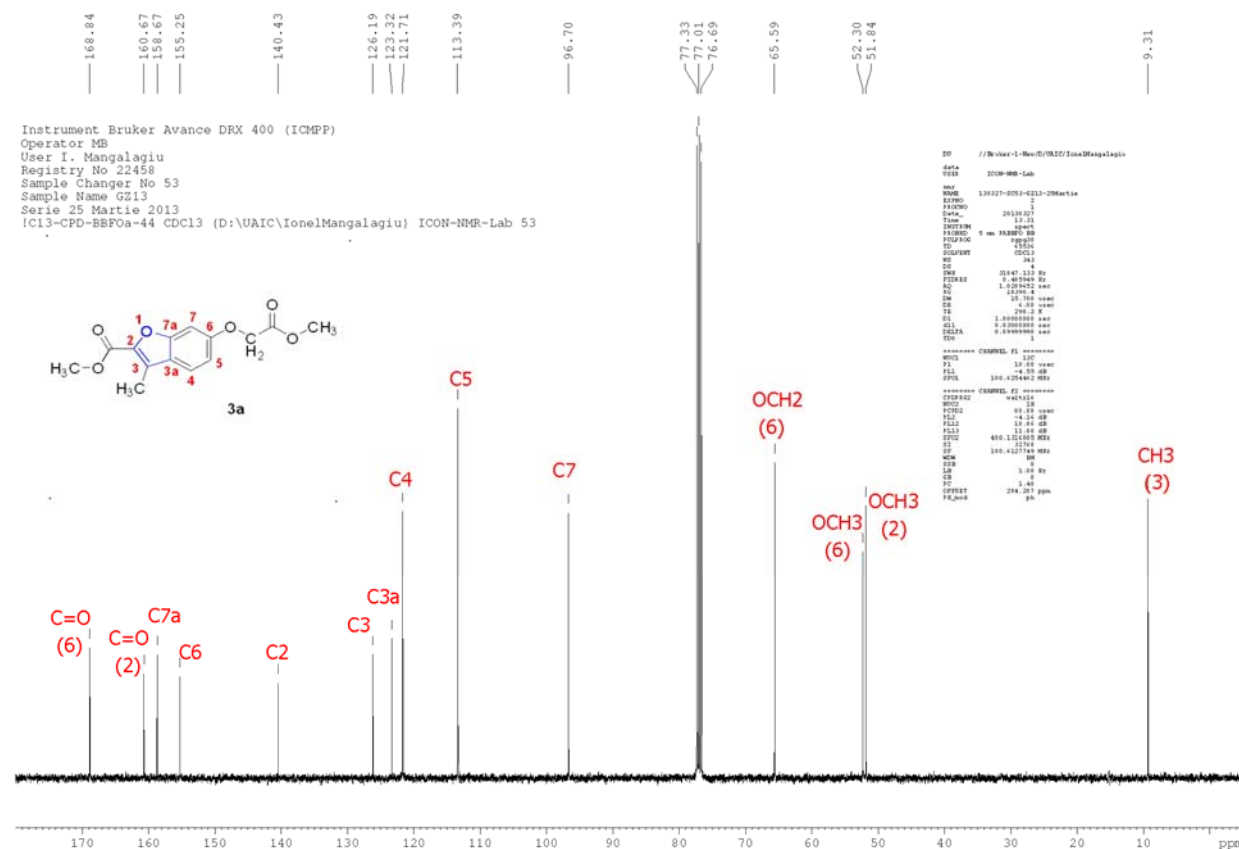


S6 Fig. HPLC chromatogram of the compound 4c.

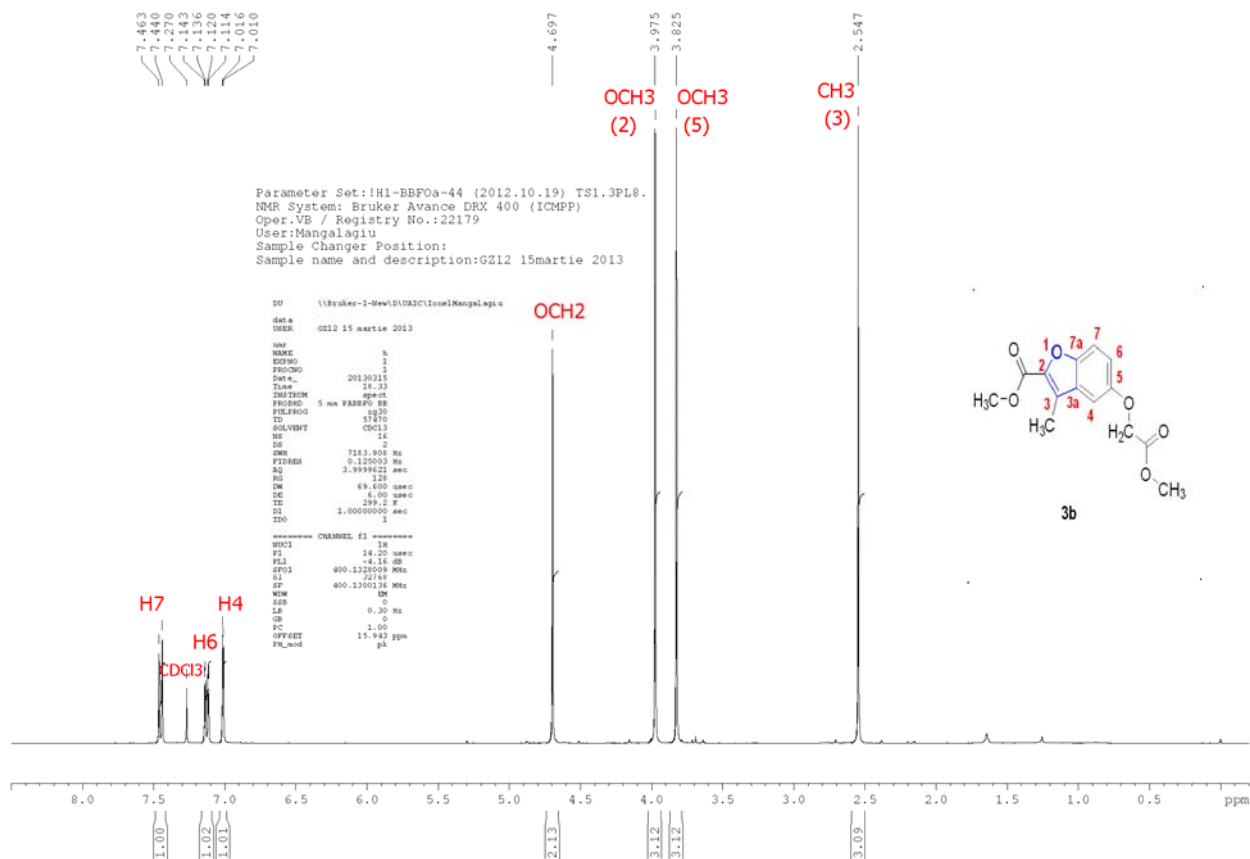
2. NMR Spectra of the obtained compounds.



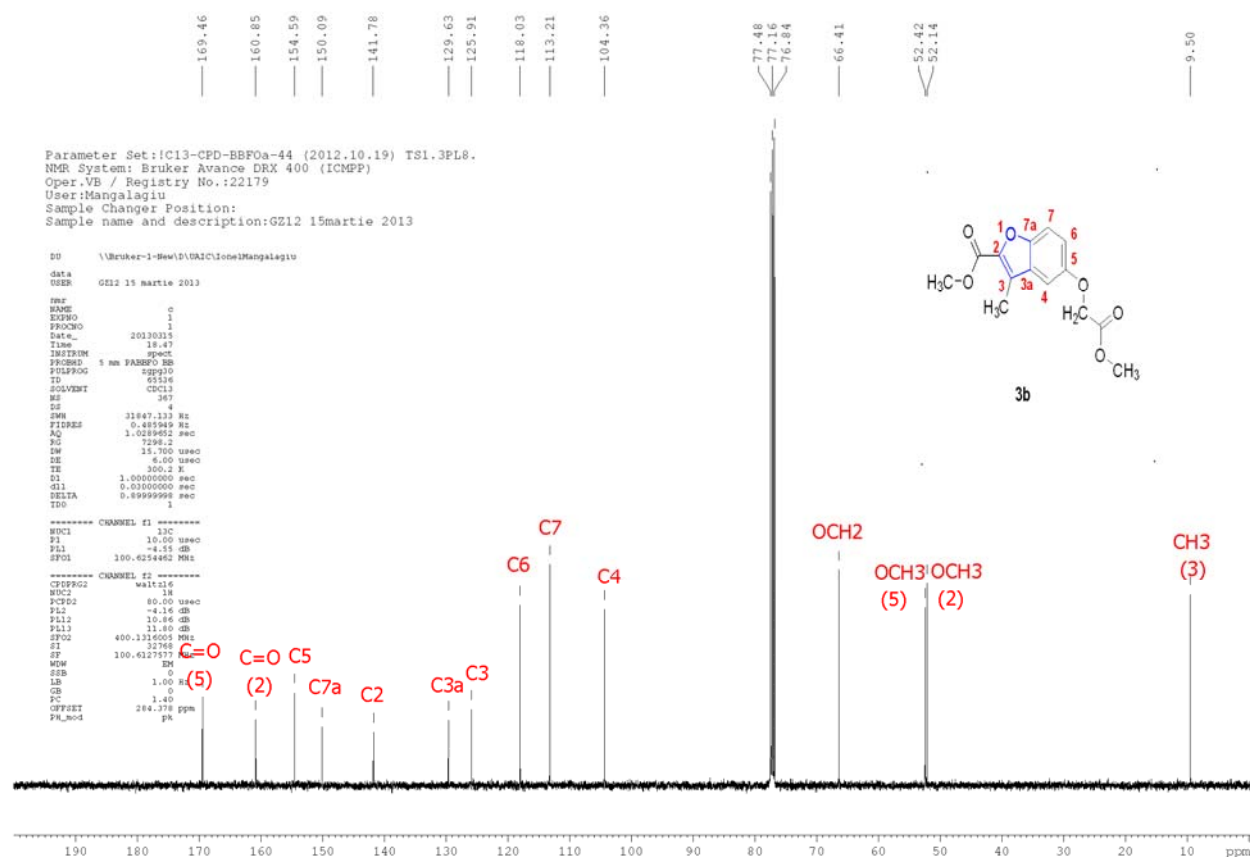
S7a Fig. ¹H NMR spectrum of the compound 3a.



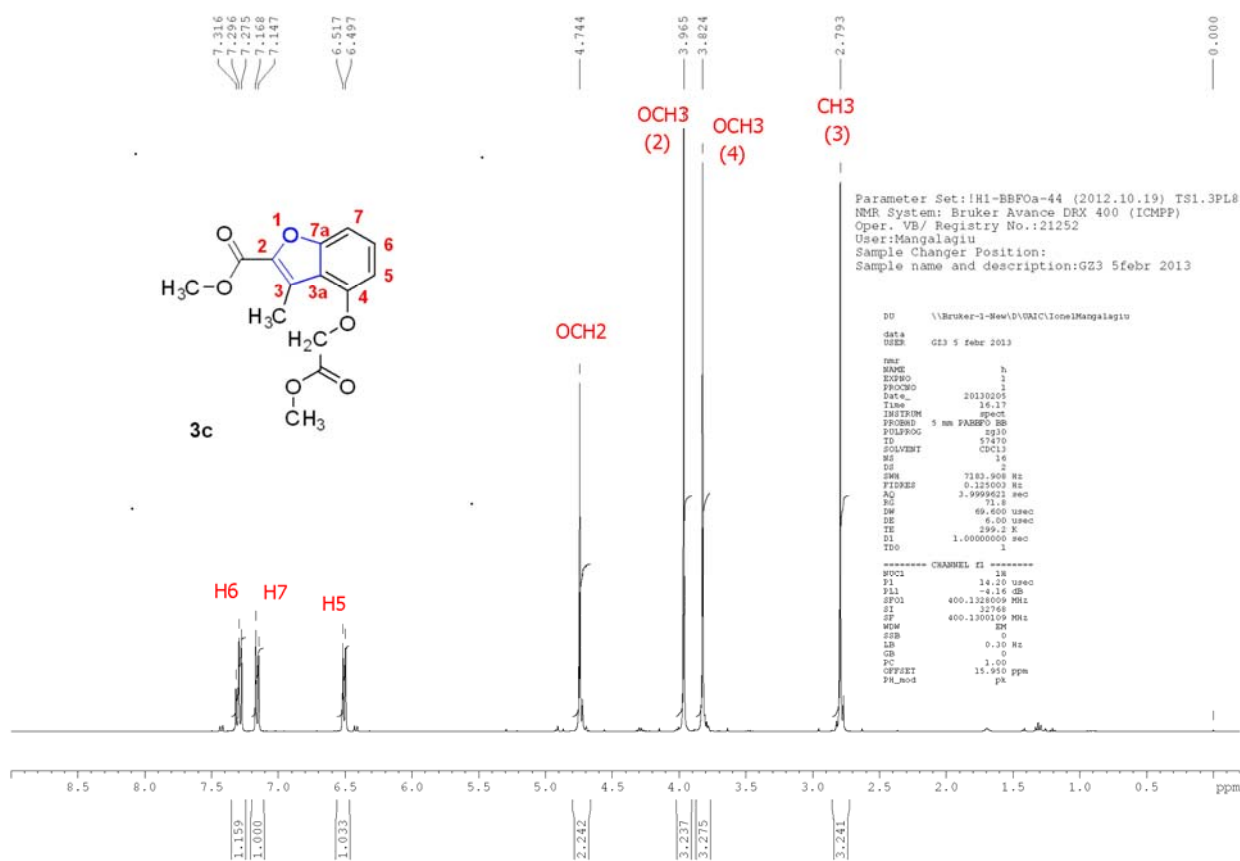
S7b Fig. ¹³C NMR spectrum of the compound 3a.



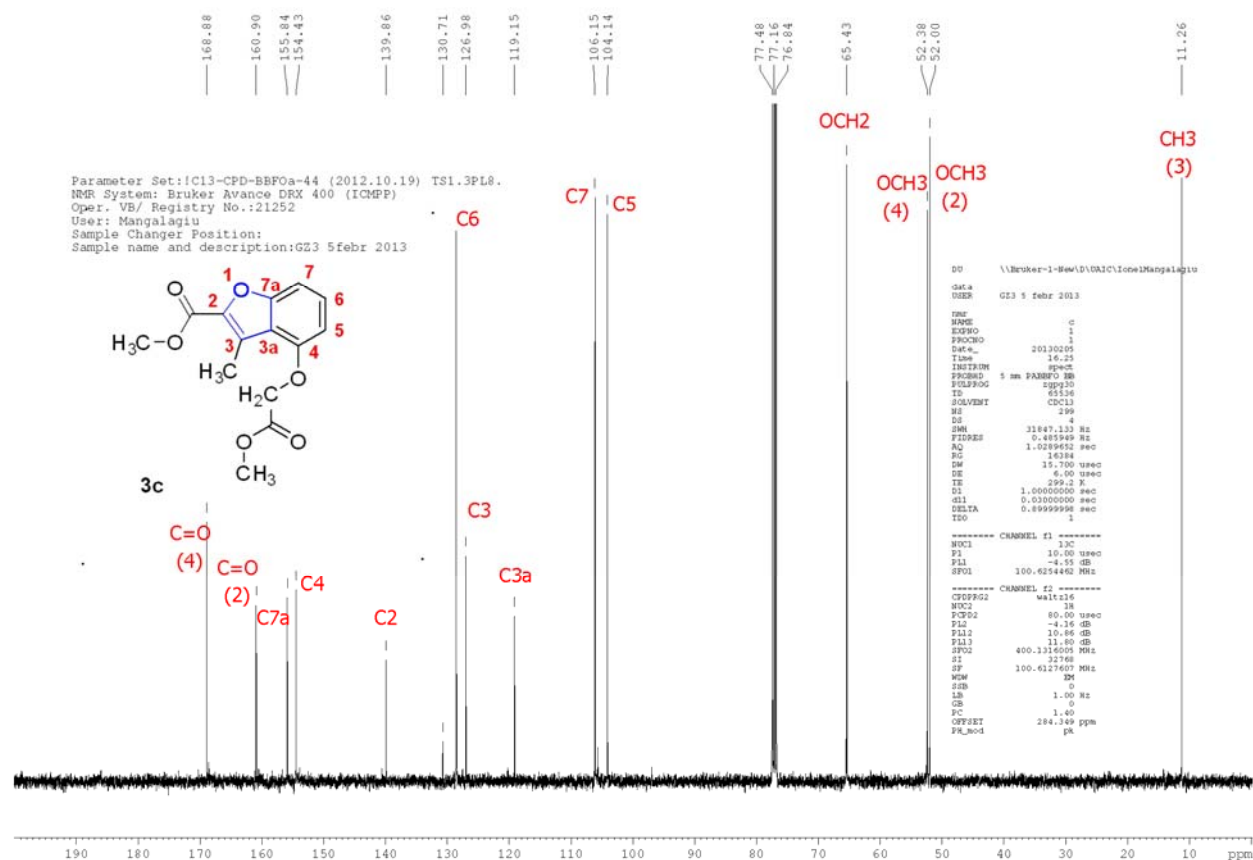
S8a Fig. ¹H NMR spectrum of the compound 3b.



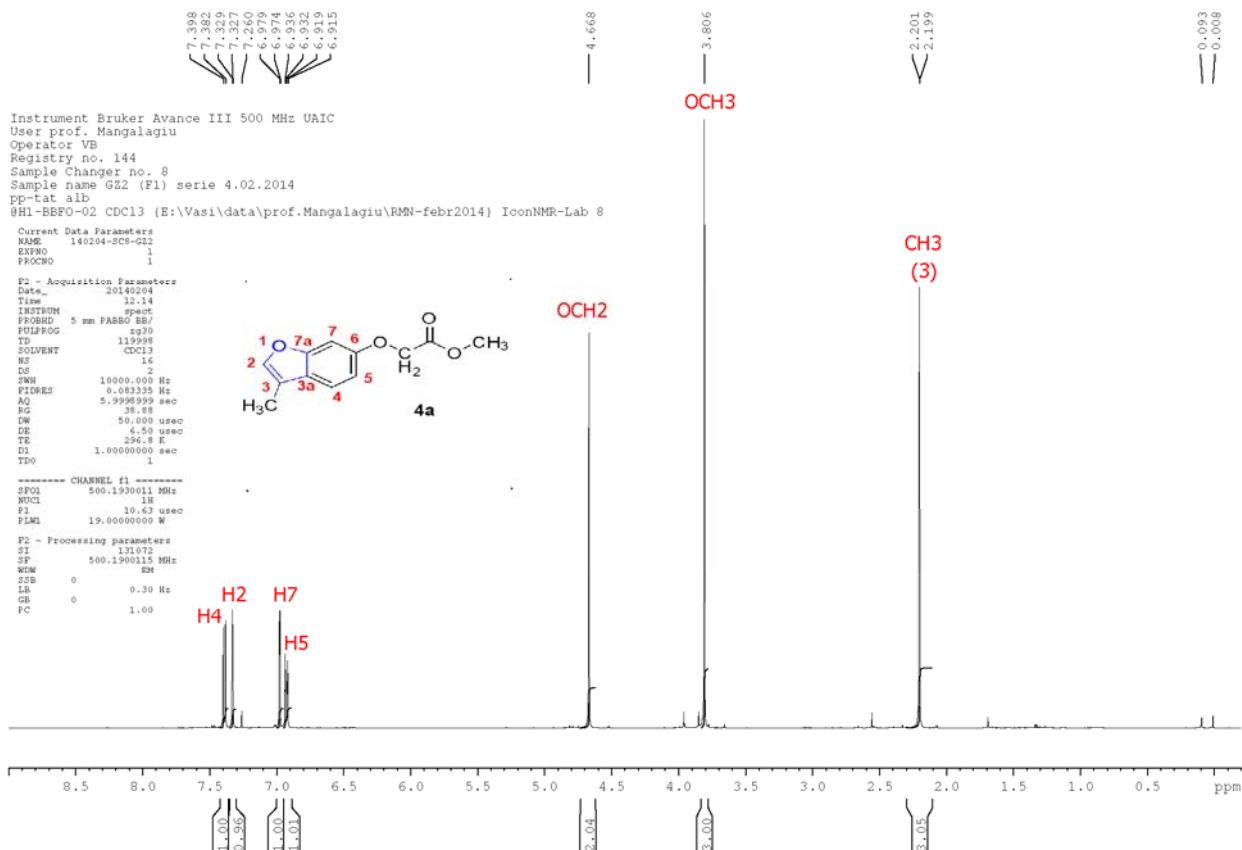
S8b Fig. ¹³C NMR spectrum of the compound 3b.



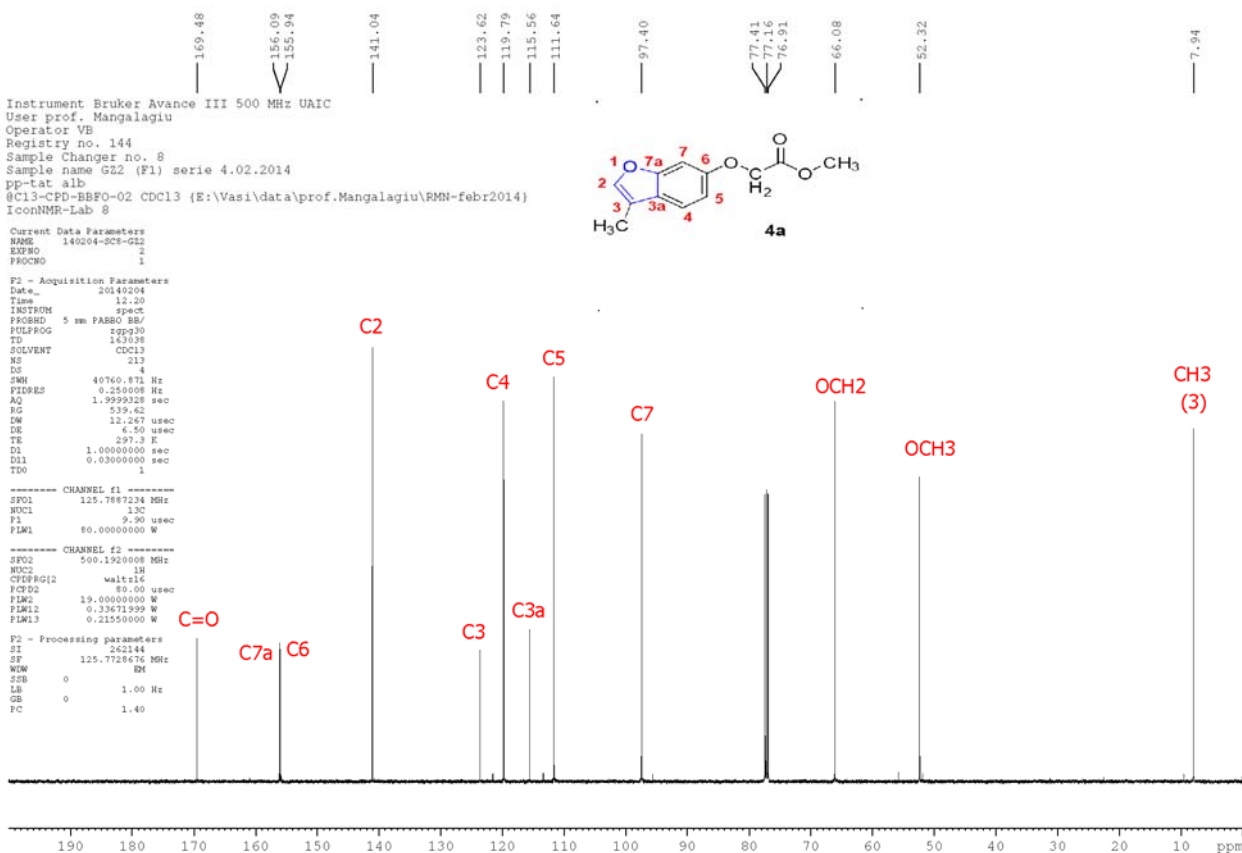
S9a Fig. ¹H NMR spectrum of the compound 3c.



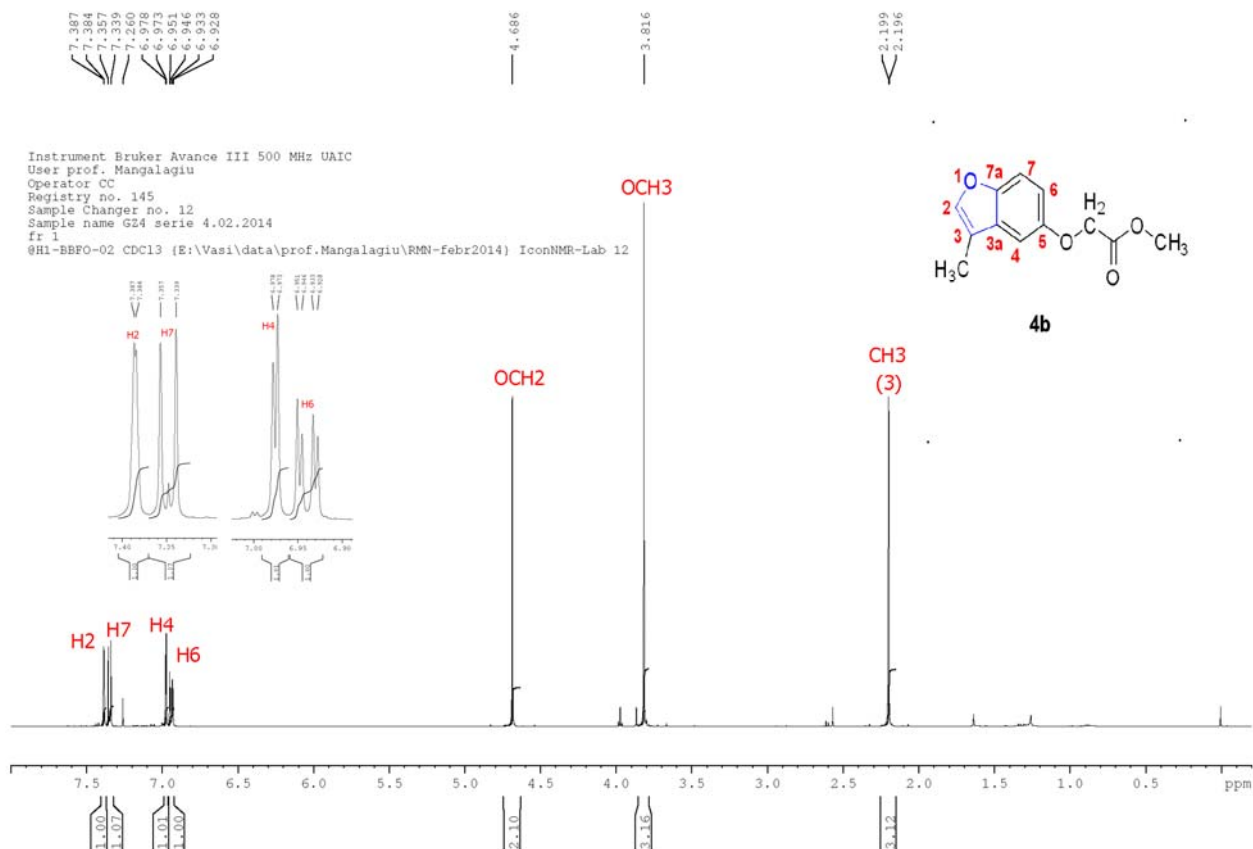
S9b Fig. ¹³C NMR spectrum of the compound 3c.



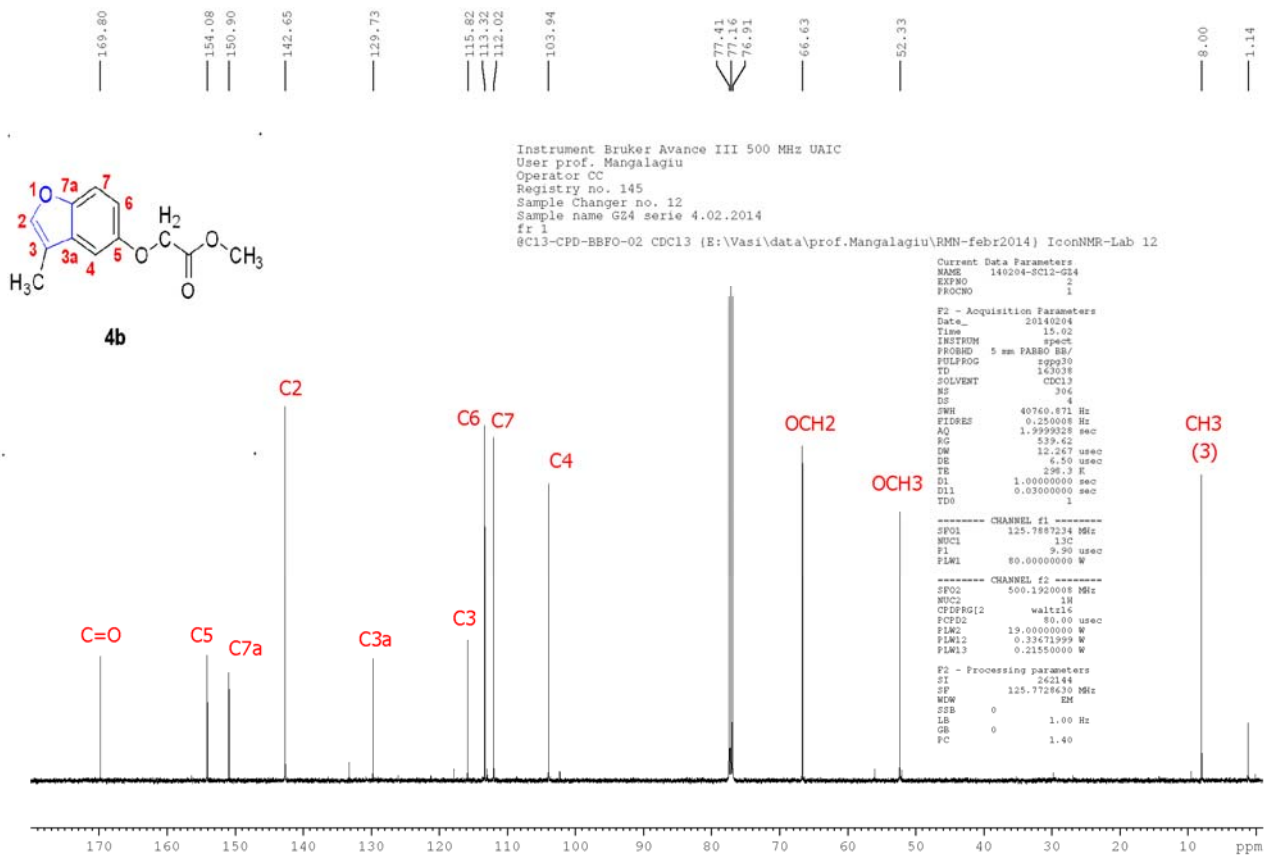
S10a Fig. ^1H NMR spectrum of the compound **4a**.



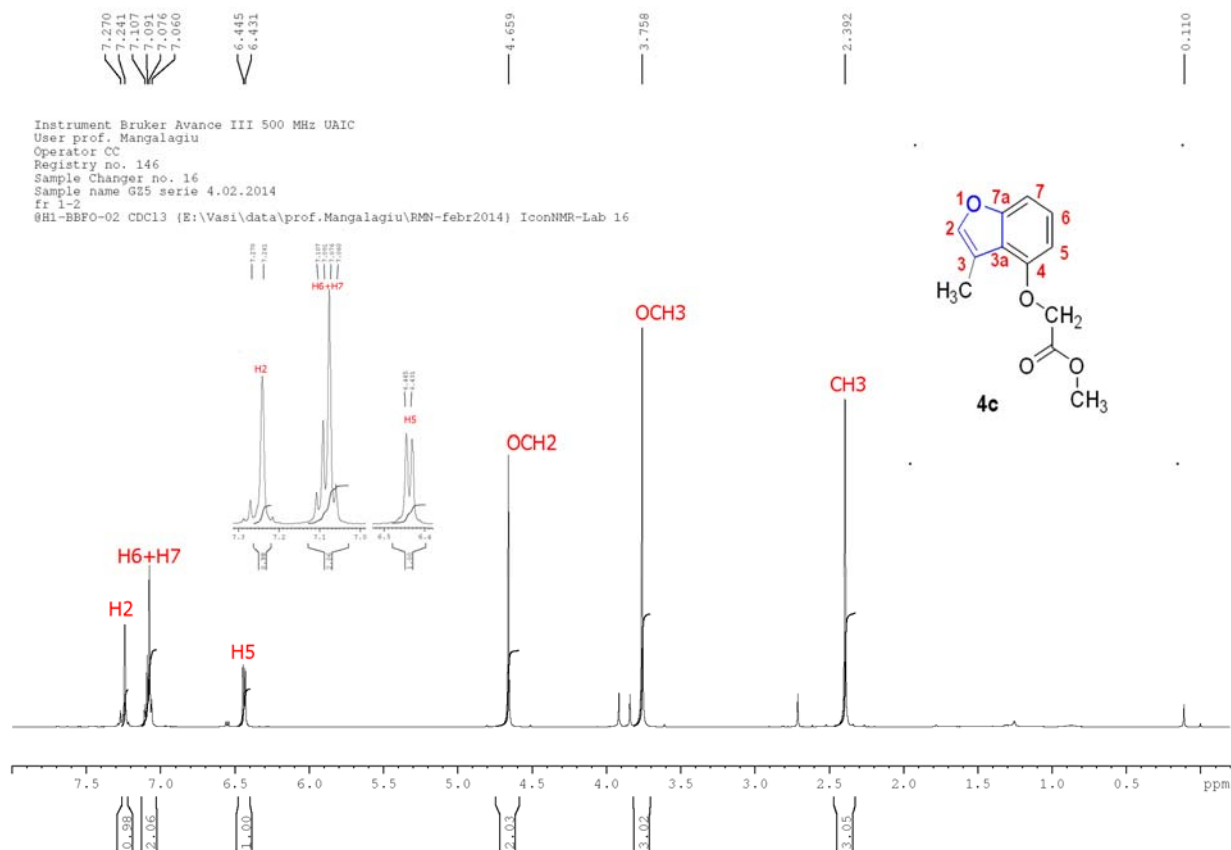
S10b Fig. ^{13}C NMR spectrum of the compound **4a**.



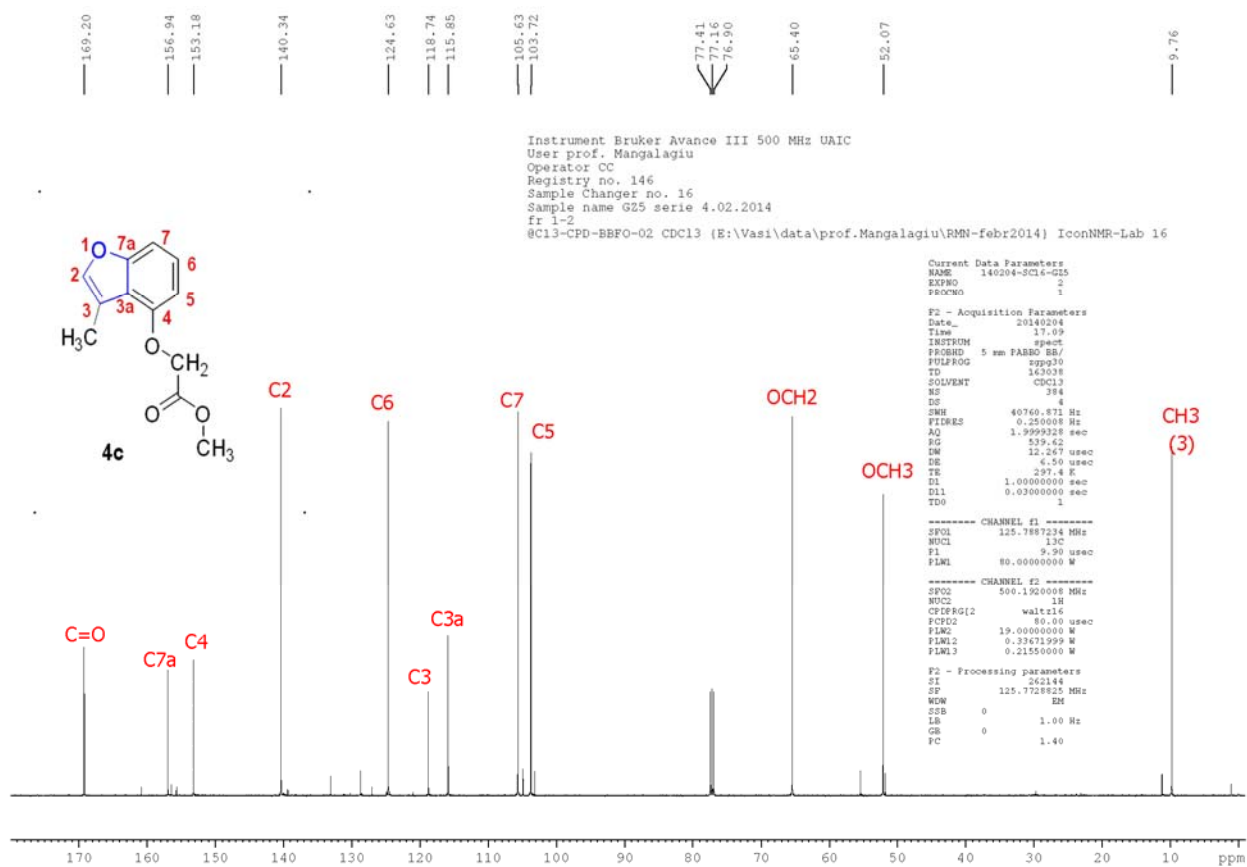
S11a Fig. ^1H NMR spectrum of the compound 4b.



S11b Fig. ^{13}C NMR spectrum of the compound 4b.



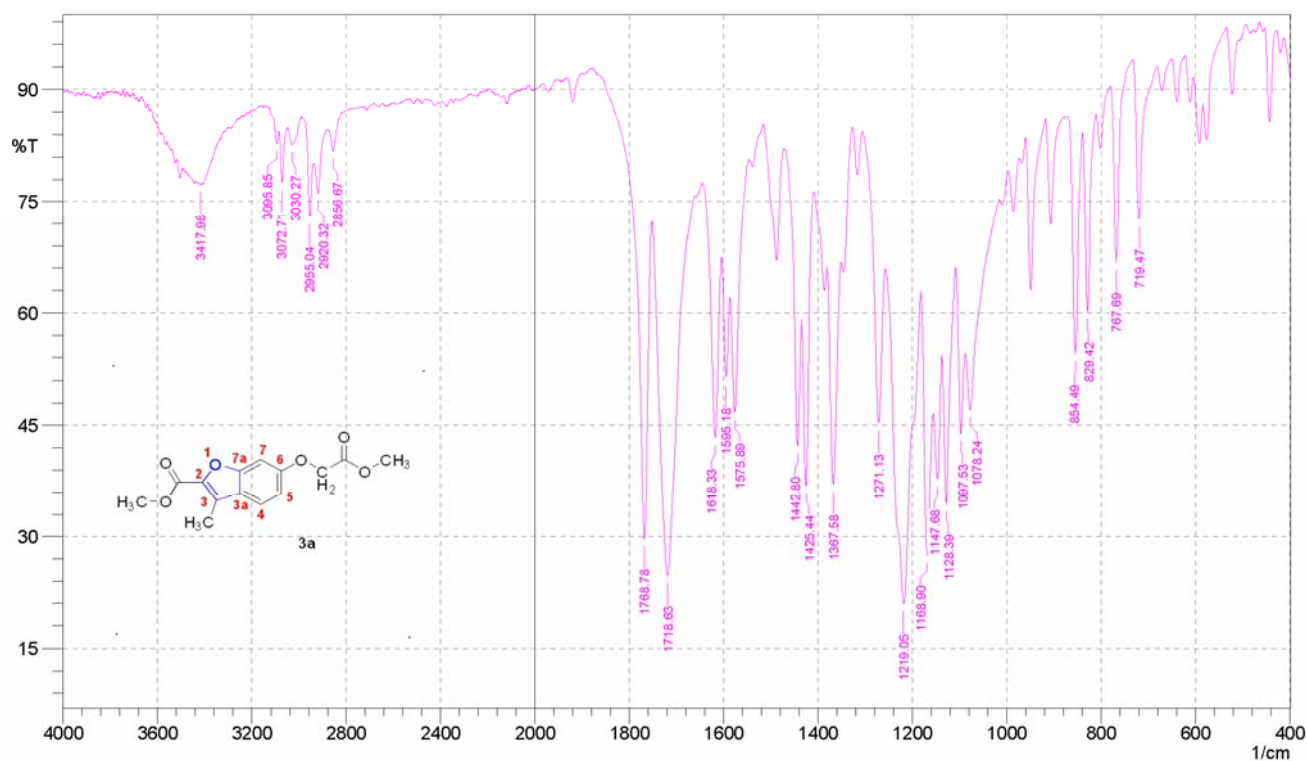
S12a Fig. ^1H NMR spectrum of the compound **4c**.



S12b Fig. ^{13}C NMR spectrum of the compound **4c**.

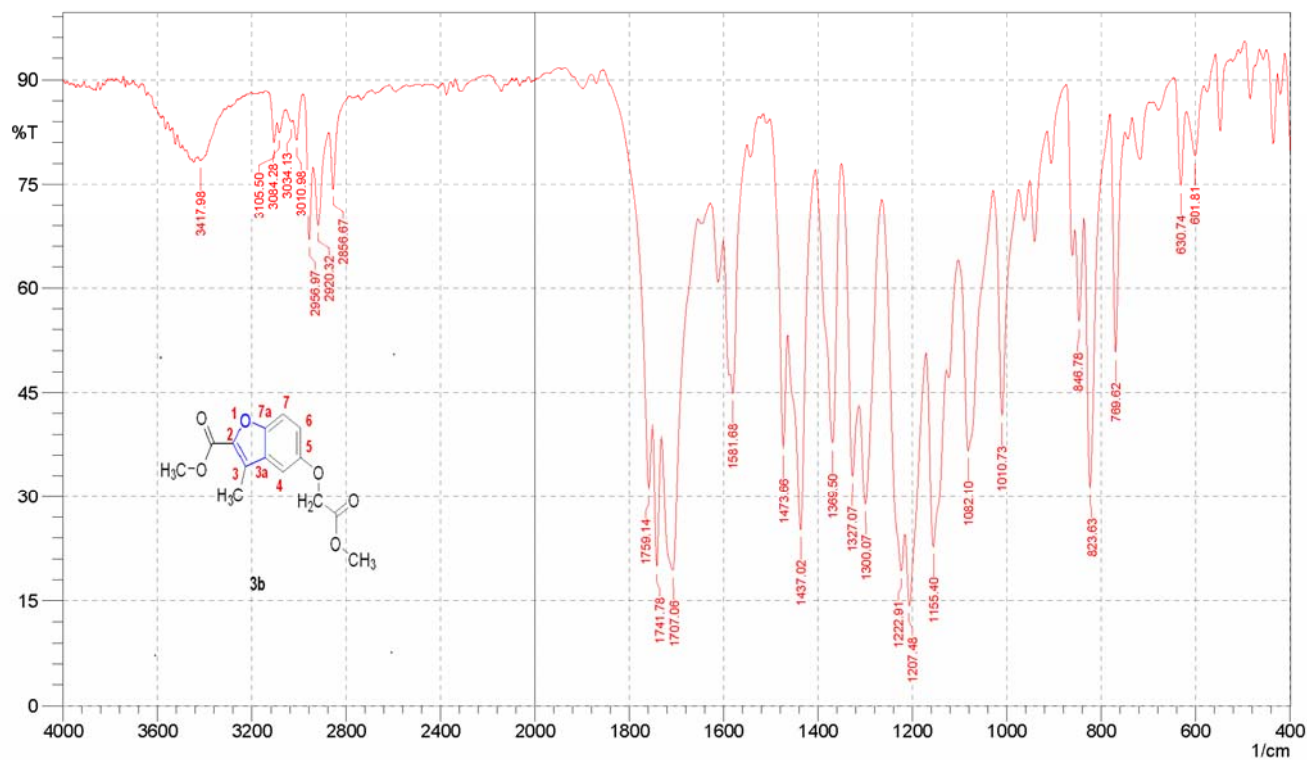
3. IR Spectra of the obtained compounds.

SHIMADZU

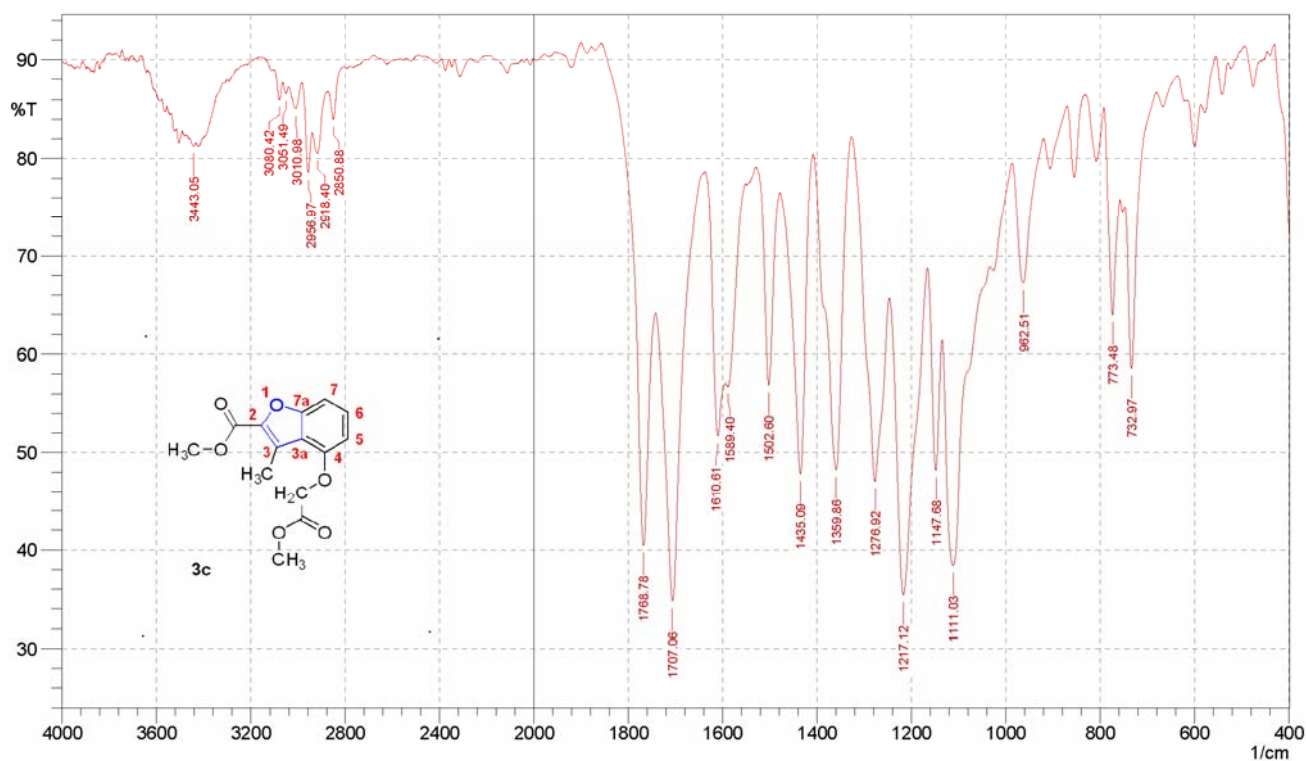
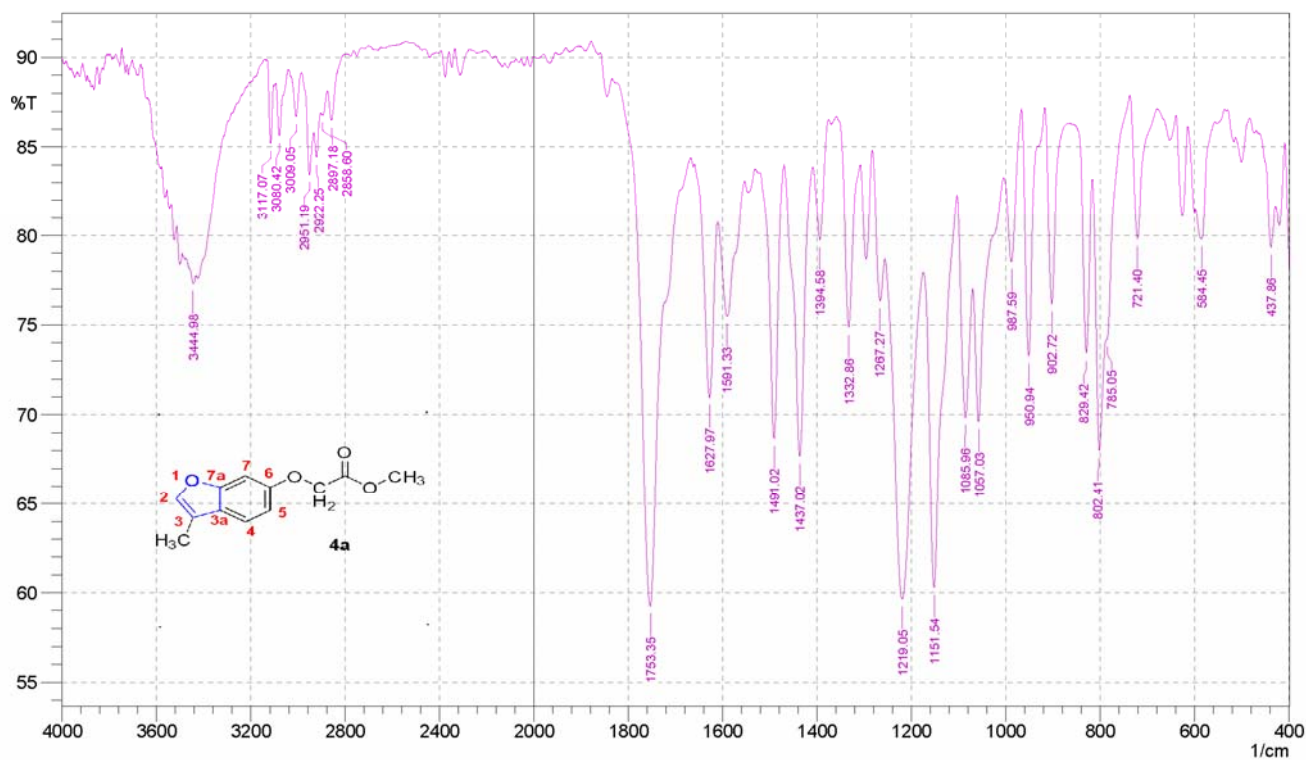


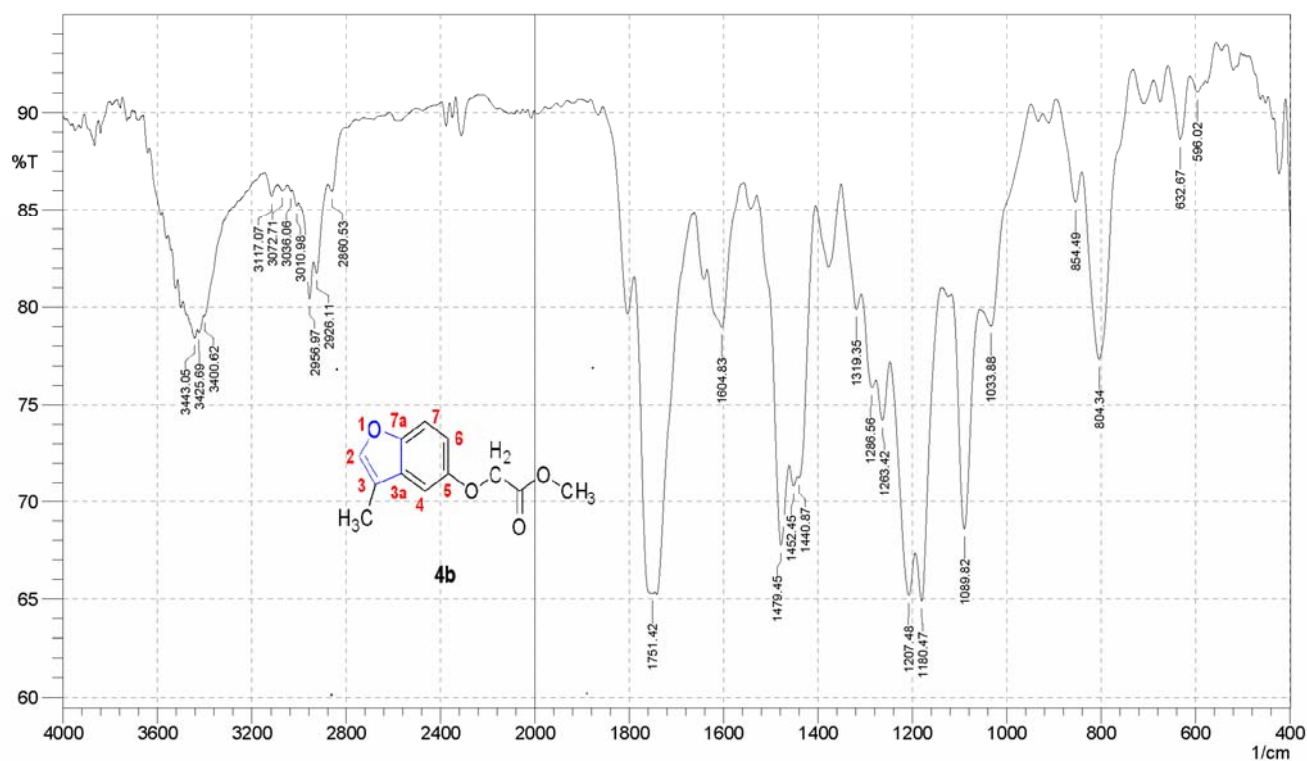
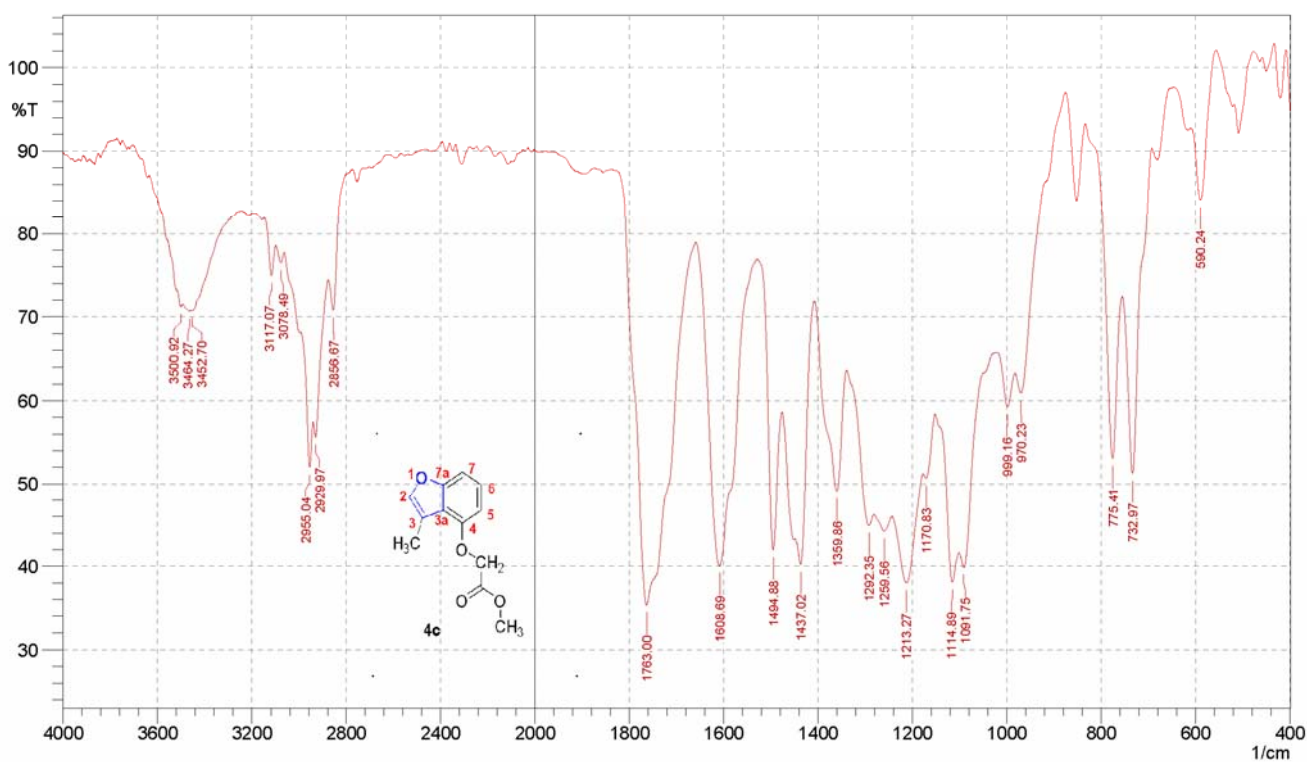
S13 Fig. IR spectrum of the compound 3a.

SHIMADZU



S14 Fig. IR spectrum of the compound 3b.

S15 Fig. IR spectrum of the compound **3c**.S16 Fig. IR spectrum of the compound **4a**.

S17 Fig. IR spectrum of the compound **4b**.S18 Fig. IR spectrum of the compound **4c**.