

## Supplementary Material

**"On water" Synthesis of Aurones: First Synthesis of  
4,5,3',4',5'-Pentamethoxy-6-hydroxyaurone from *Smilax Riparia***

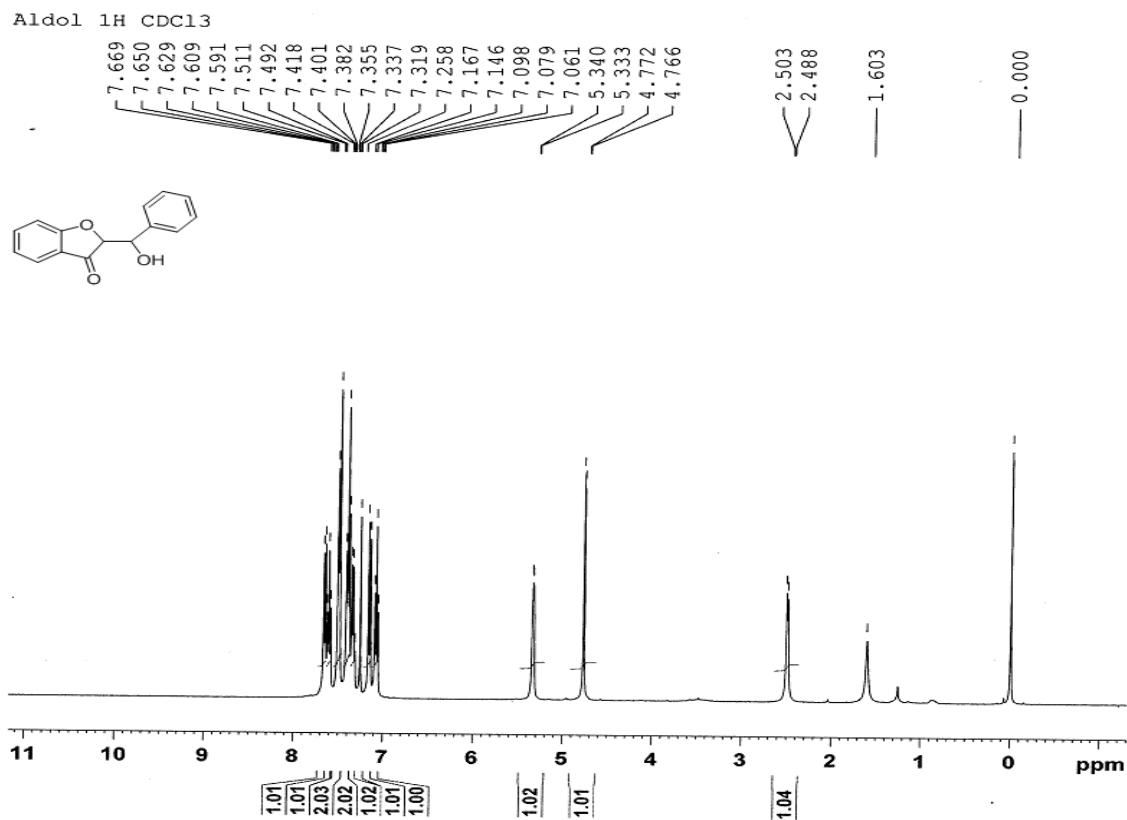
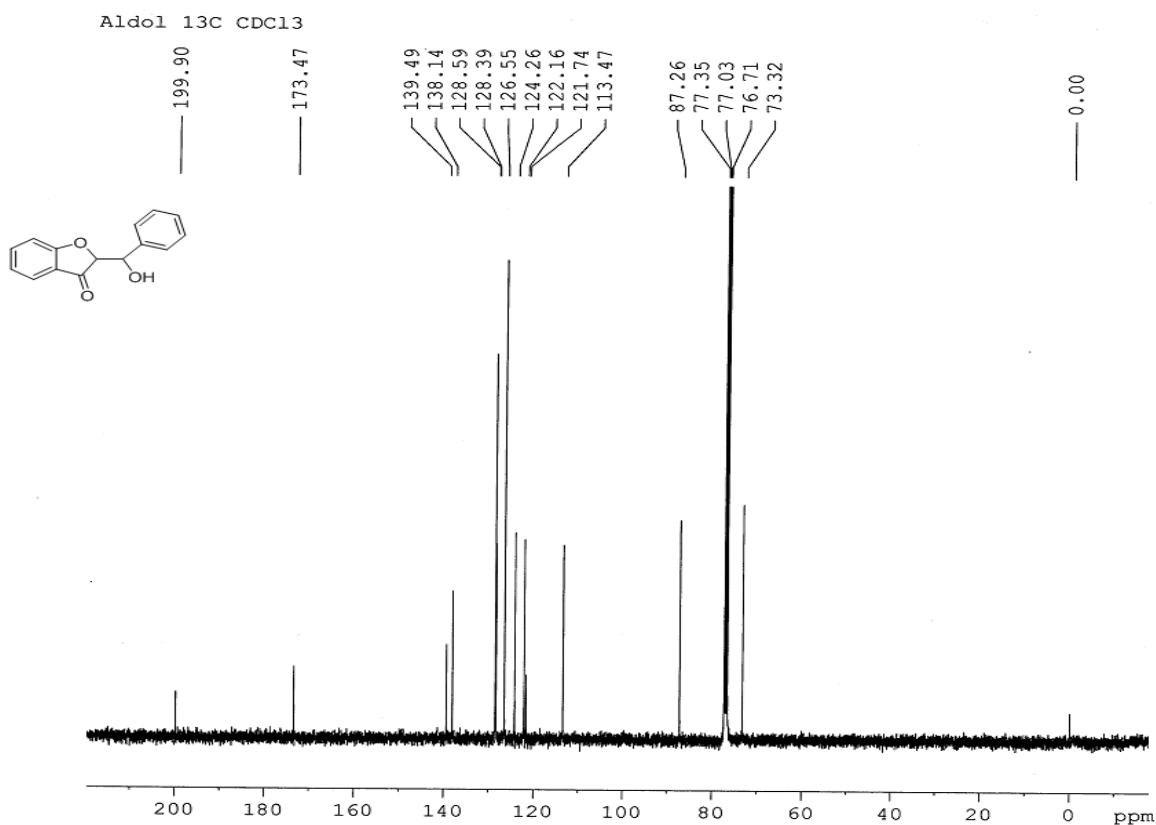
Somepalli Venkateswarlu,\* Gandrotu Narasimha Murty, and Meka Satyanarayana

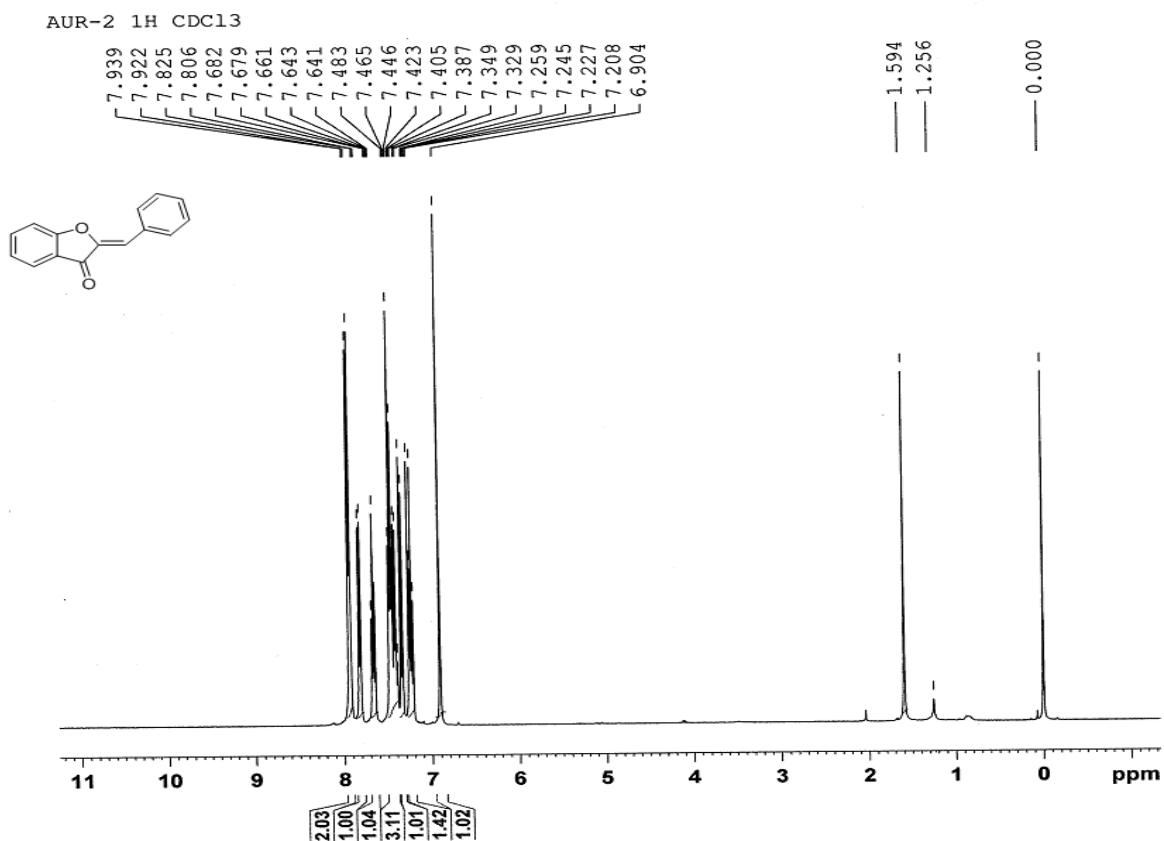
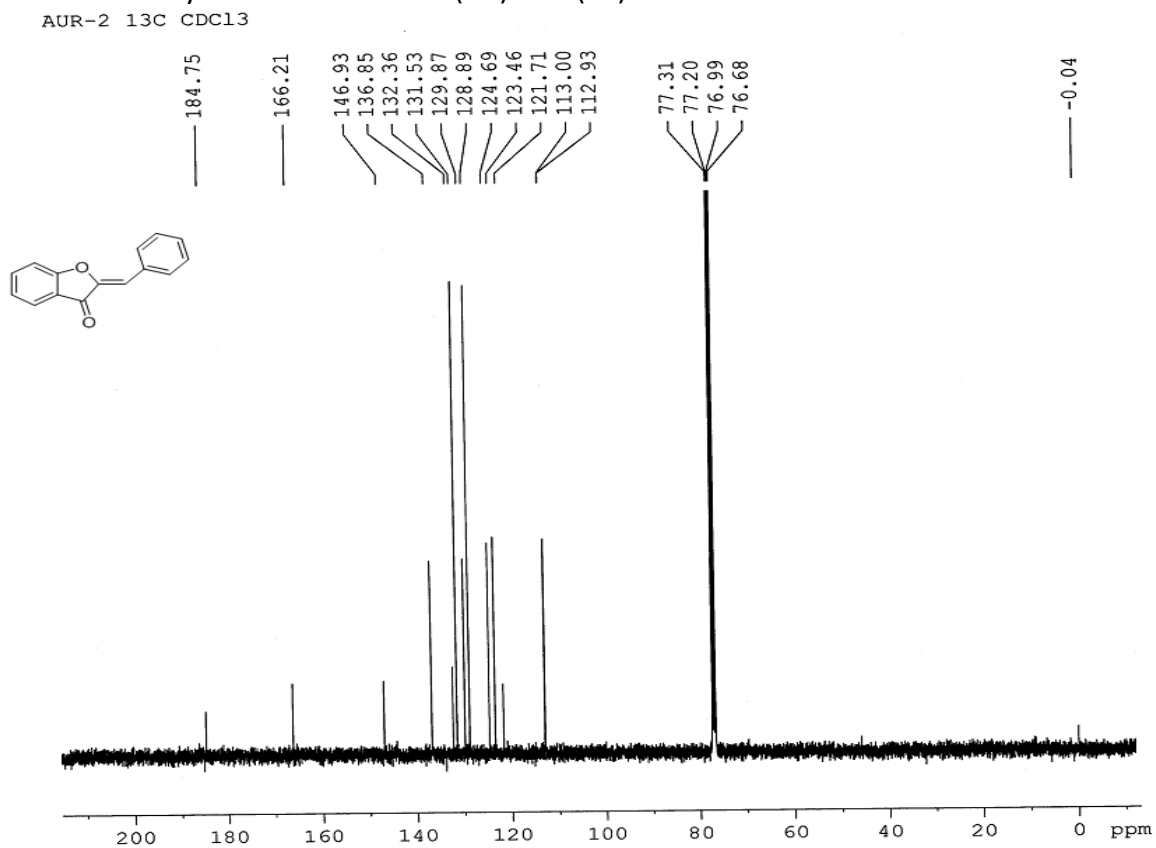
*Drug Discovery, Laila Impex Research Centre, No. 1, Phase III, Jawahar Autonagar,  
Vijayawada-520 007, India**E-mail: [drvsomepalli@gmail.com](mailto:drvsomepalli@gmail.com); [somepalli01@rediffmail.com](mailto:somepalli01@rediffmail.com)*

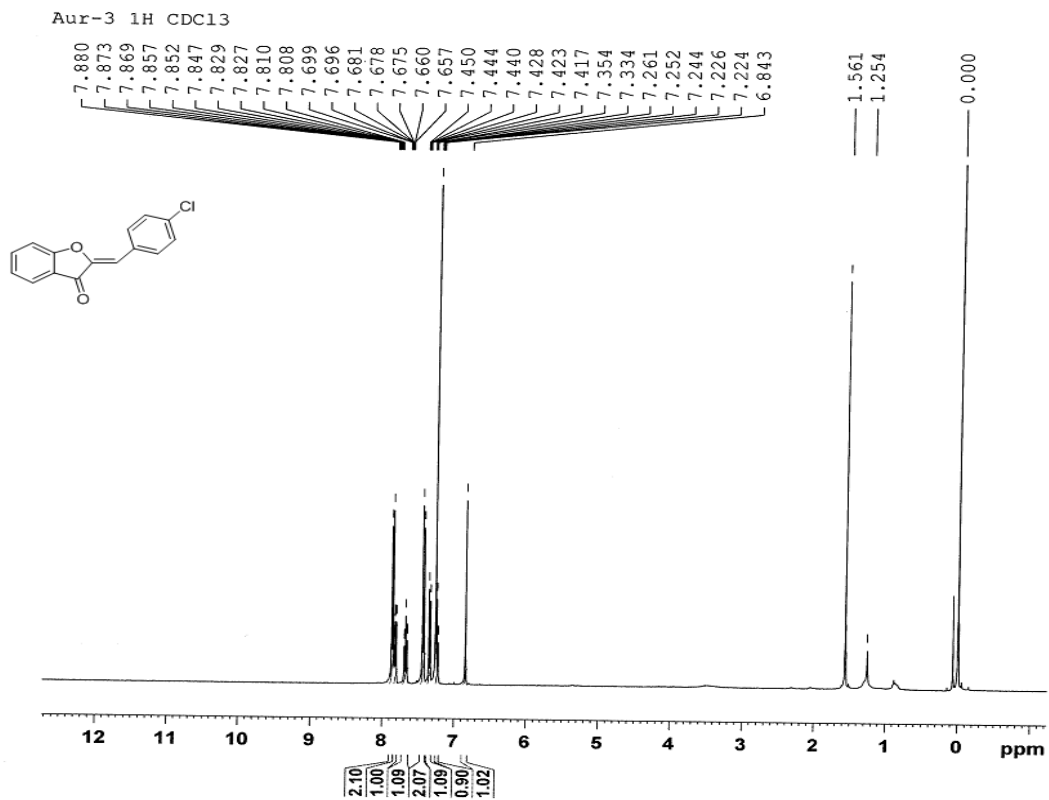
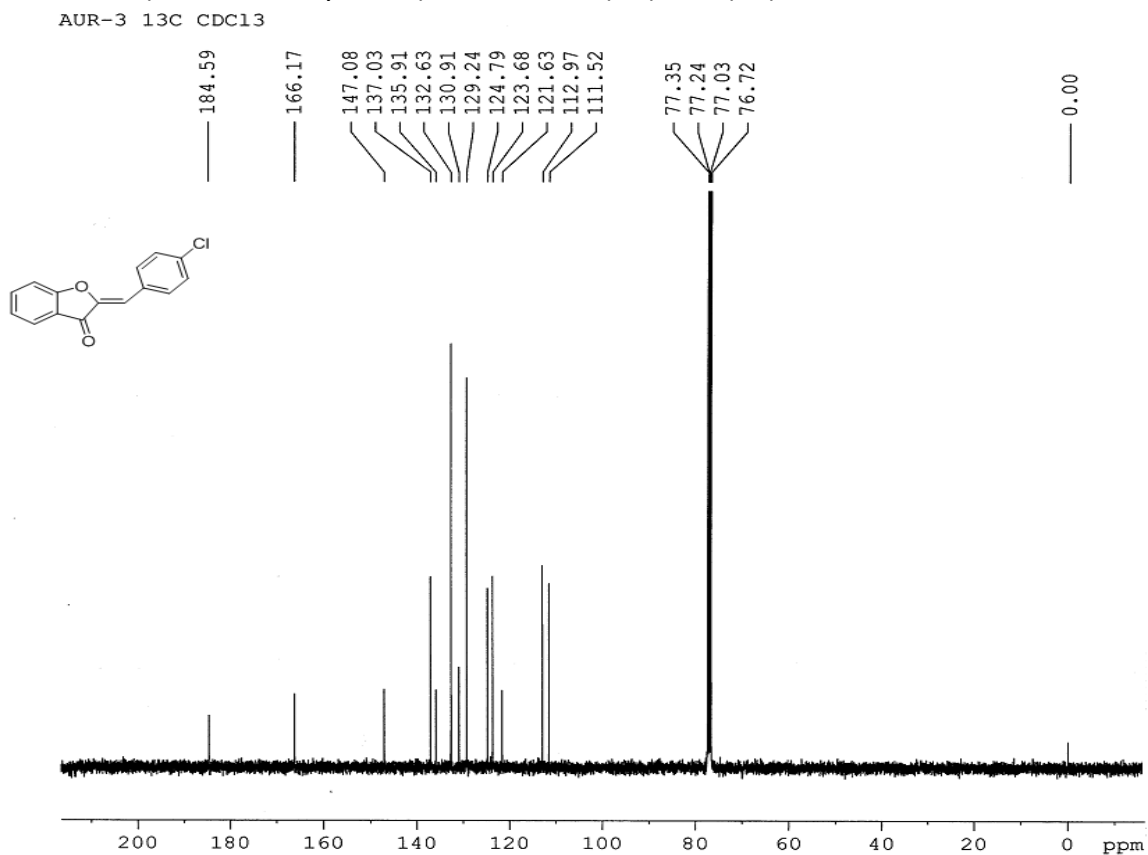
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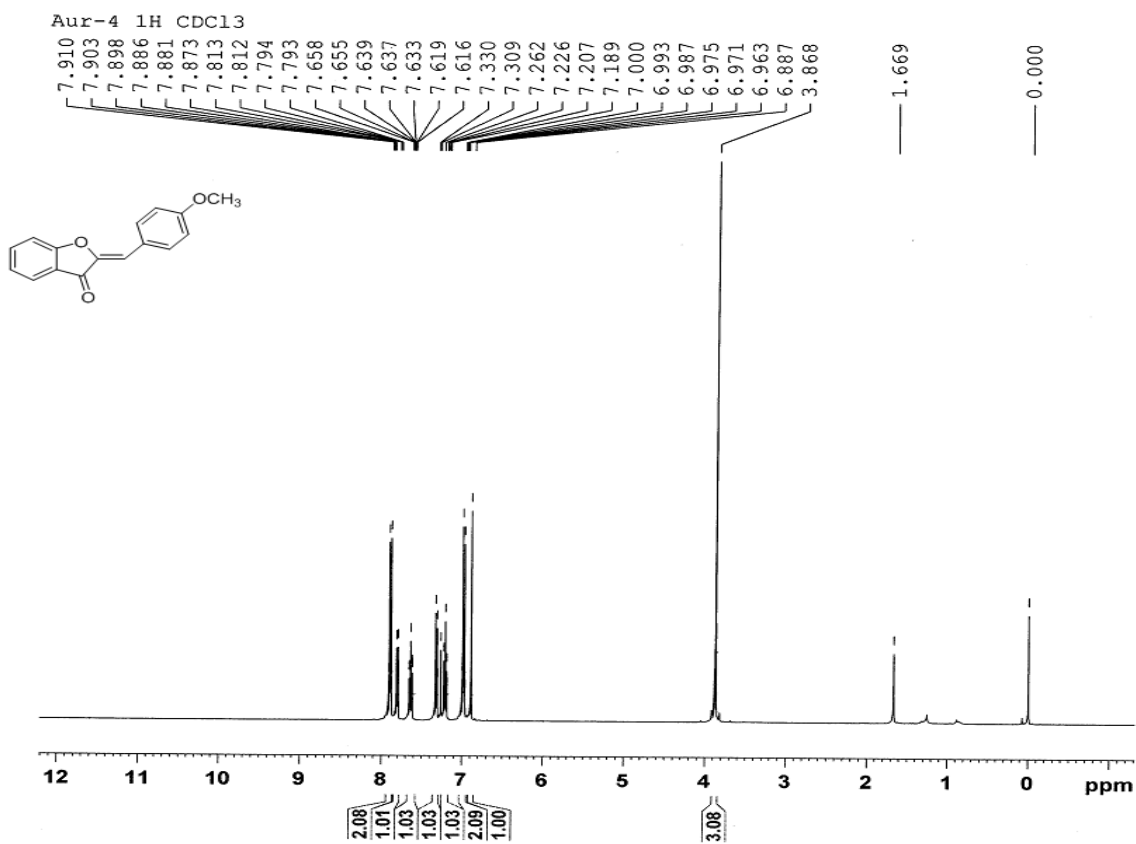
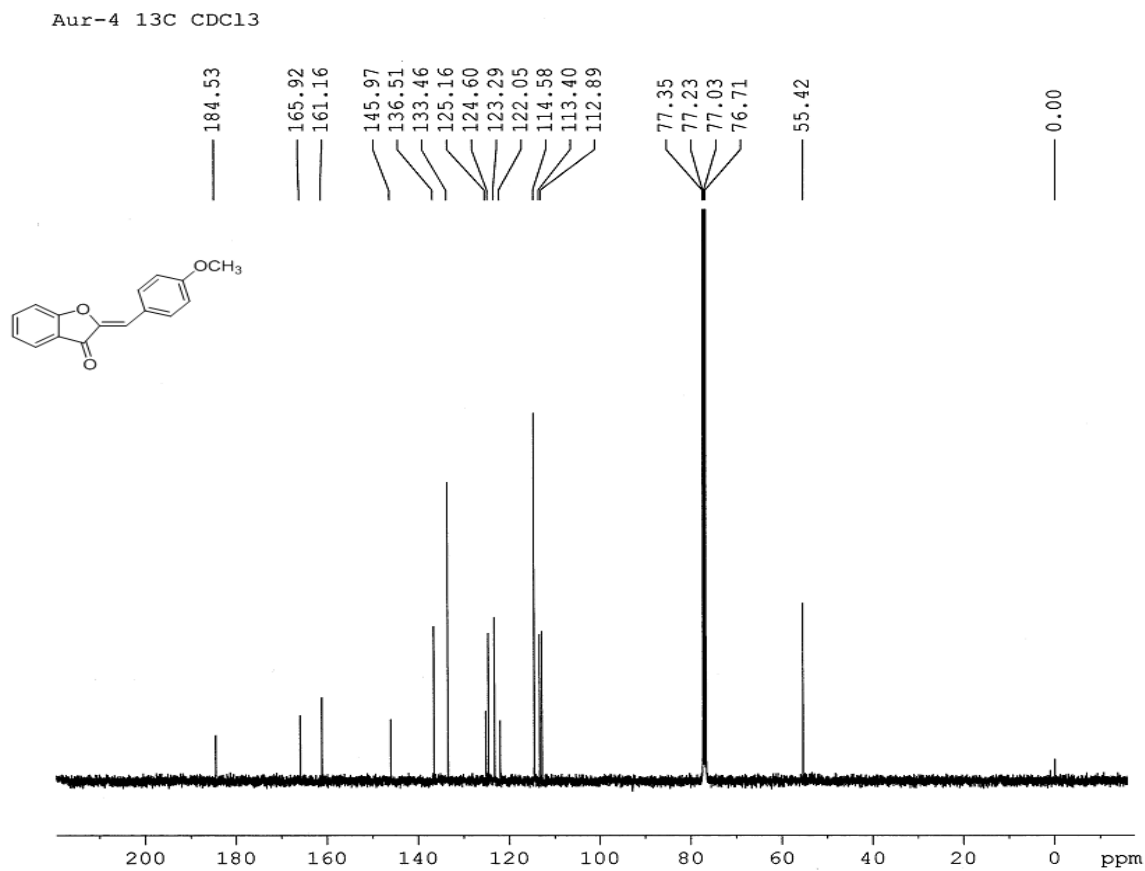
**Index**

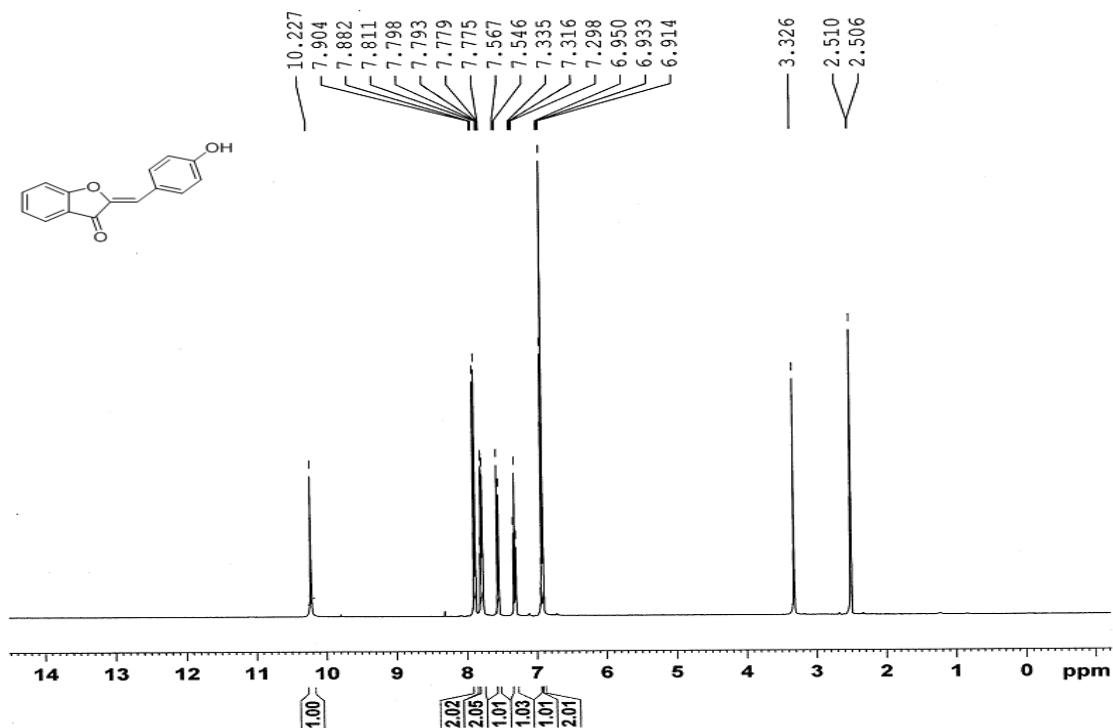
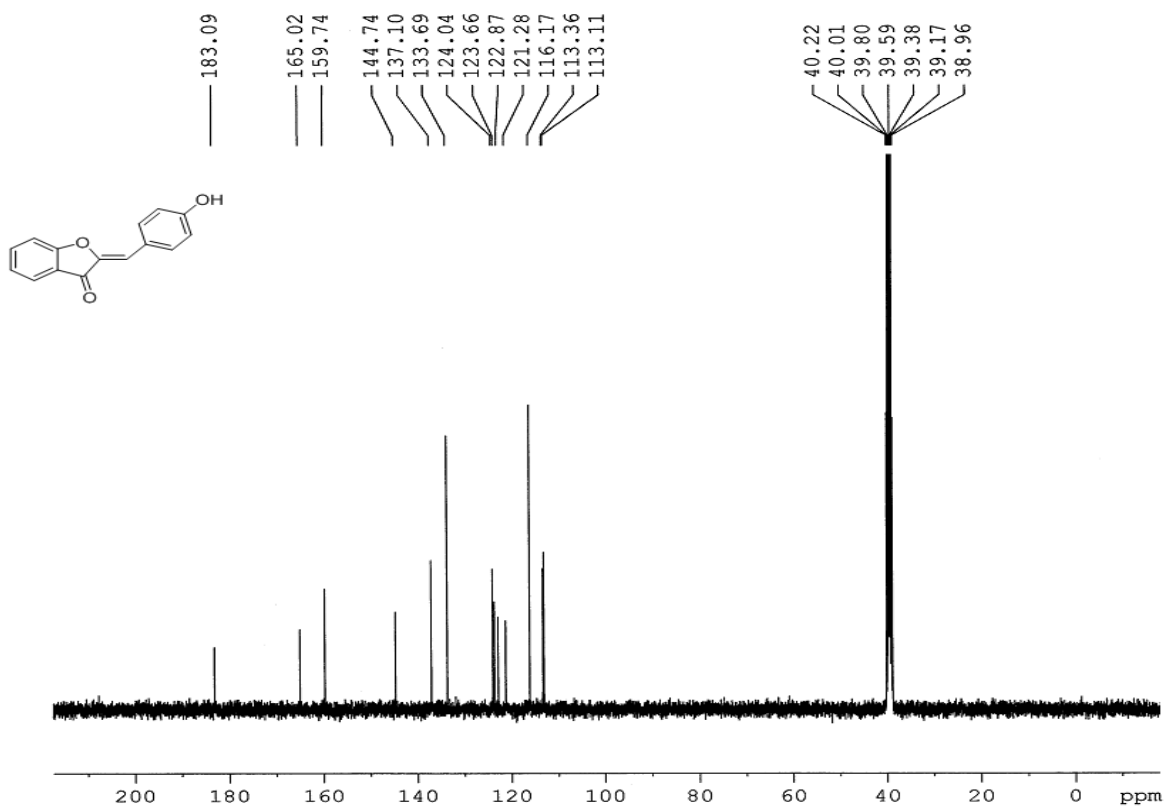
1.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>3</b>	S2
2.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>4a</b>	S3
3.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>4b</b>	S4
4.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>4c</b>	S5
5.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>4d</b>	S6
6.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>4e</b>	S7
7.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>4f</b>	S8
8.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>4g</b>	S9
9.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>4h</b>	S10
10.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>4i</b>	S11
11.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>4j</b>	S12
12.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>4k</b>	S13
13.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>5</b>	S14
14.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>6</b>	S15
15.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>8</b>	S16
16.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>9</b>	S17
17.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>10</b>	S18
18.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>11</b>	S19
19.	HSQC and HMBC spectra of compound <b>11</b>	S20
20.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>12</b>	S21
21.	HSQC and HMBC spectra of compound <b>12</b>	S22
22.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>13</b>	S23
23.	HSQC and HMBC spectra of compound <b>13</b>	S24
24.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>14</b>	S25
25.	HSQC and HMBC spectra of compound <b>14</b>	S26

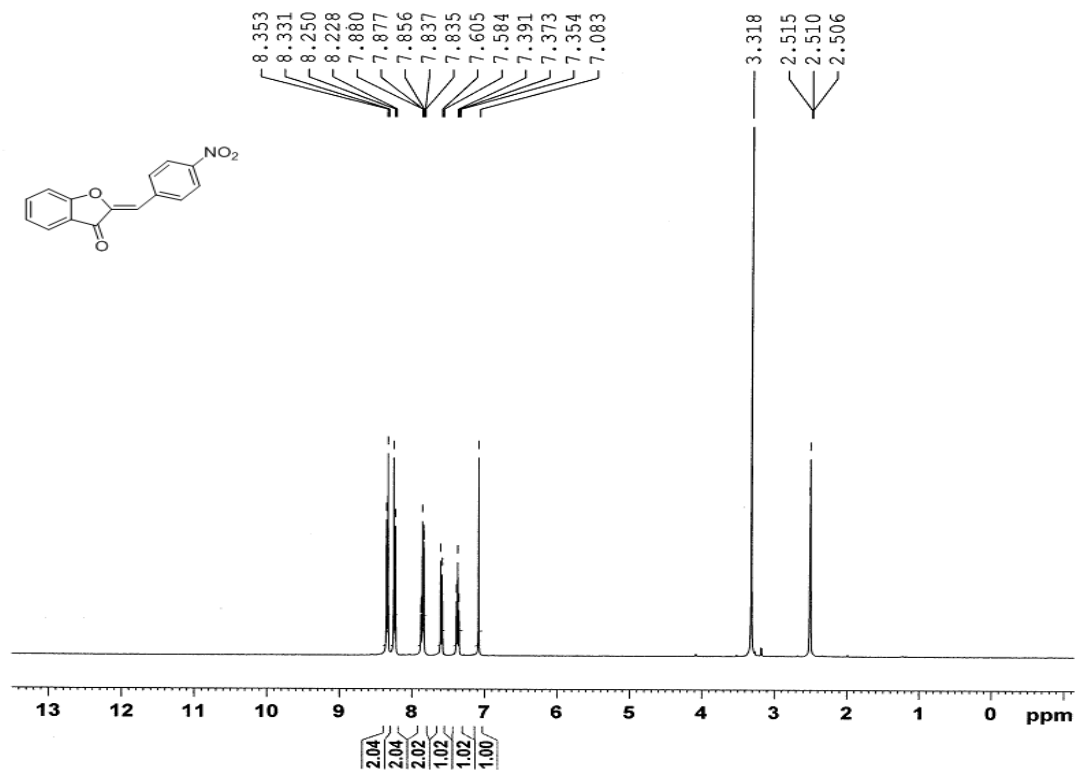
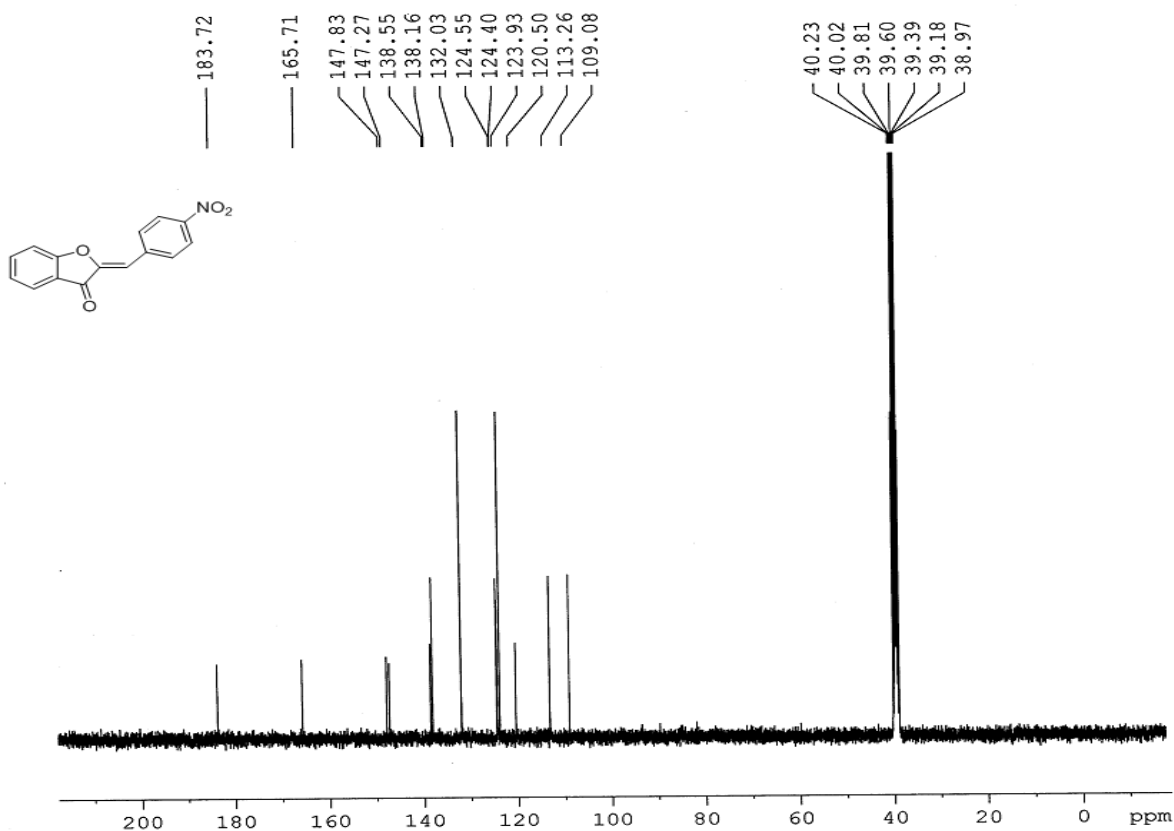
$^1\text{H}$  NMR of 2-[hydroxy(phenyl)methyl]benzofuran-3(2H)-one (3) $^{13}\text{C}$  NMR of 2-[hydroxy(phenyl)methyl]benzofuran-3(2H)-one (3)

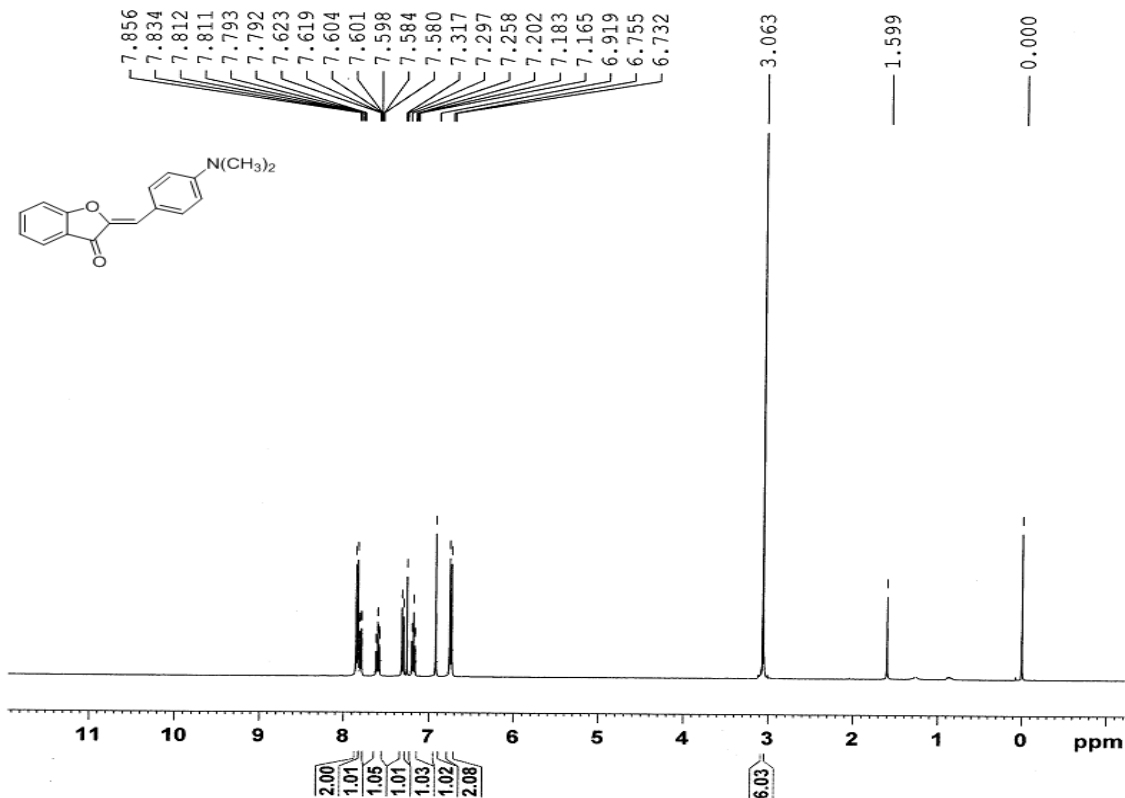
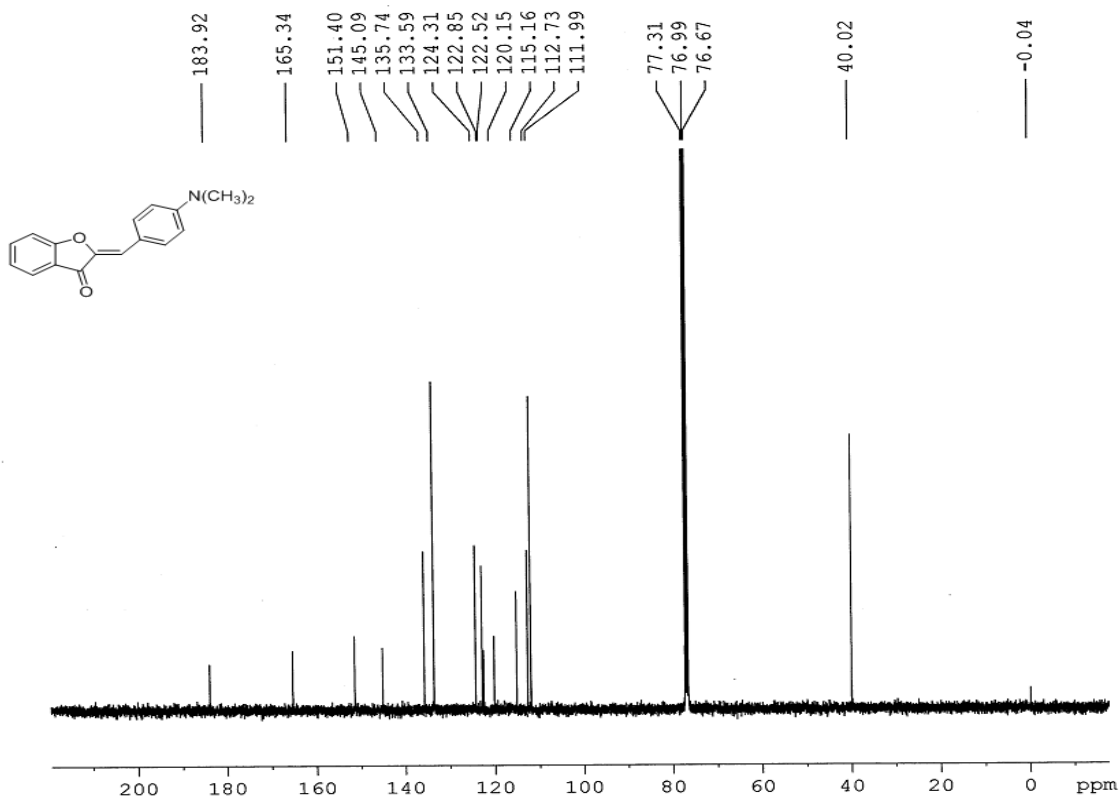
<sup>1</sup>H NMR of 2-benzylidenebenzofuran-3(2H)-one (4a)<sup>13</sup>C NMR of 2-benzylidenebenzofuran-3(2H)-one (4a)

$^1\text{H}$  NMR of 2-(4-chlorobenzylidene)benzofuran-3(2H)-one (**4b**) $^{13}\text{C}$  NMR of 2-(4-chlorobenzylidene)benzofuran-3(2H)-one (**4b**)

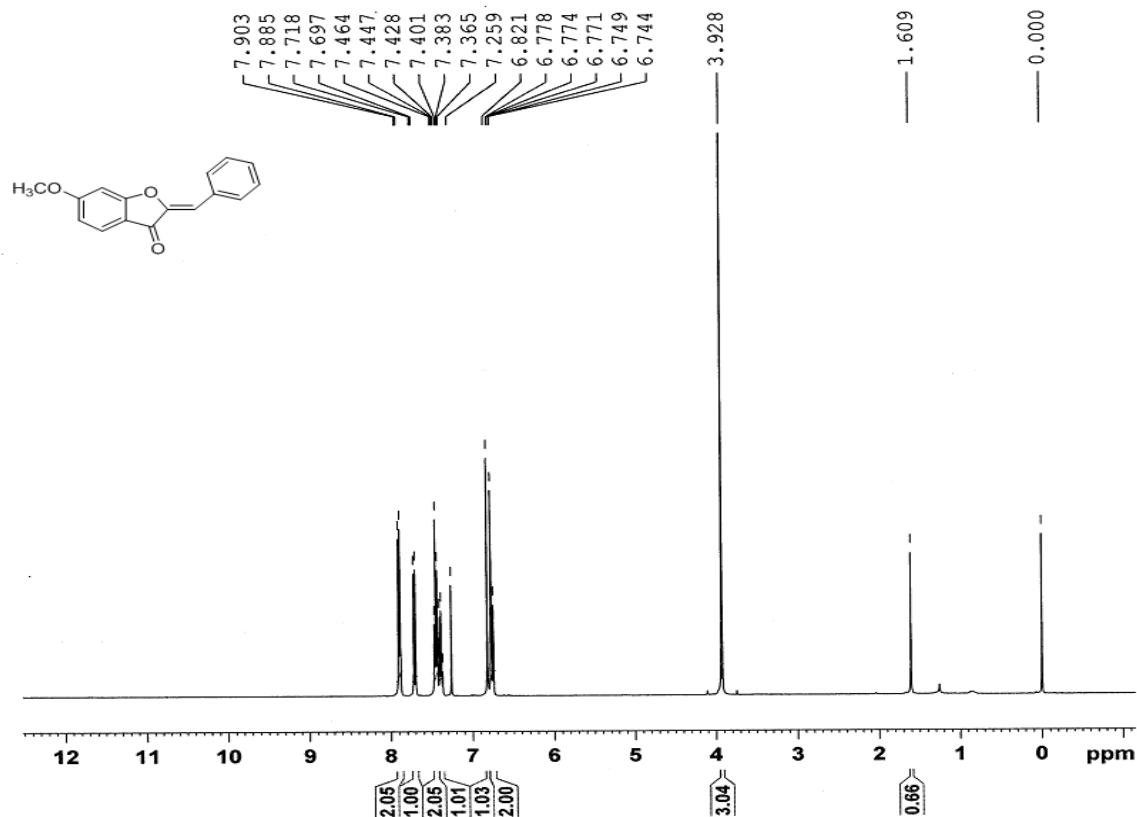
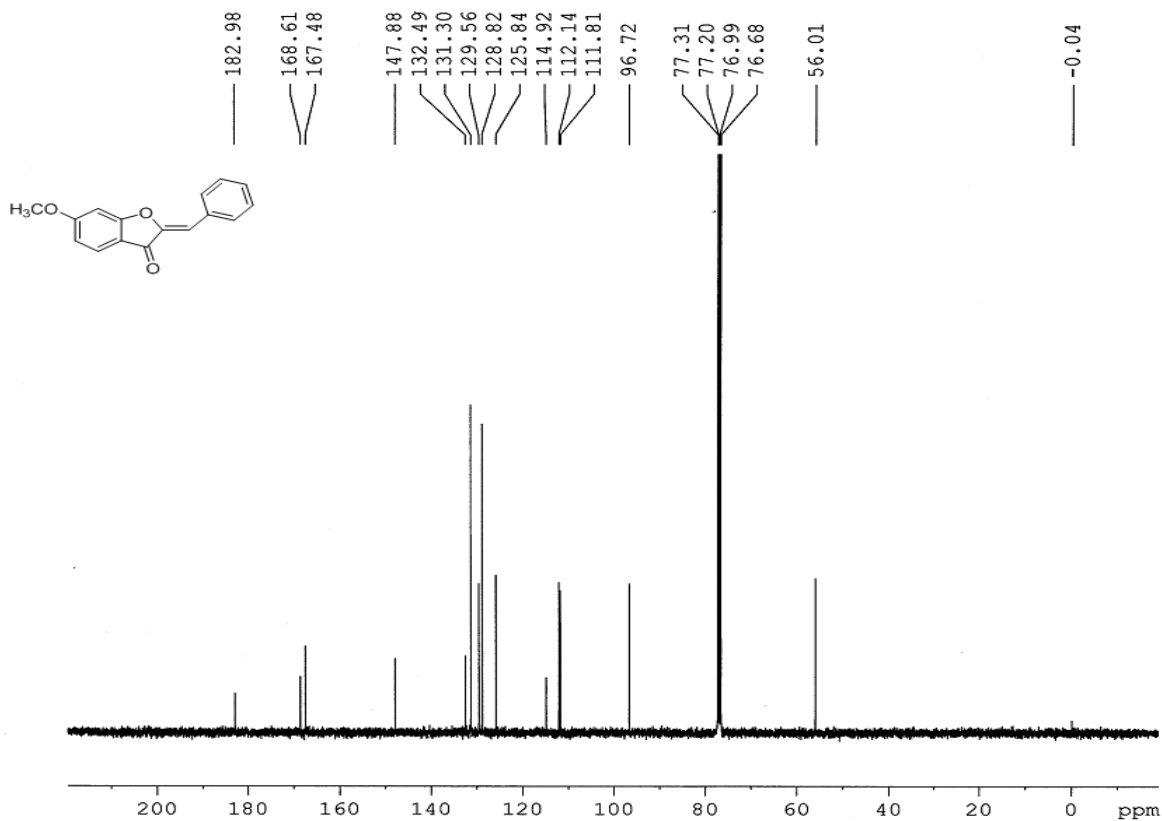
<sup>1</sup>H NMR of 2-(4-methoxybenzylidene)benzofuran-3(2H)-one (4c)<sup>13</sup>C NMR of 2-(4-methoxybenzylidene)benzofuran-3(2H)-one (4c)

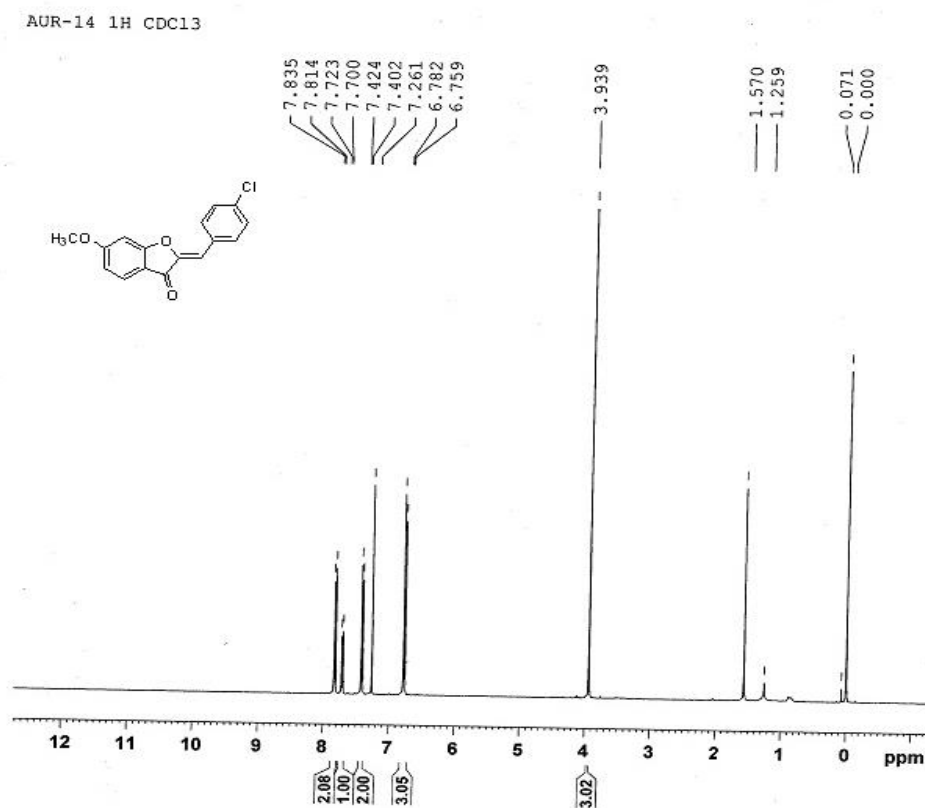
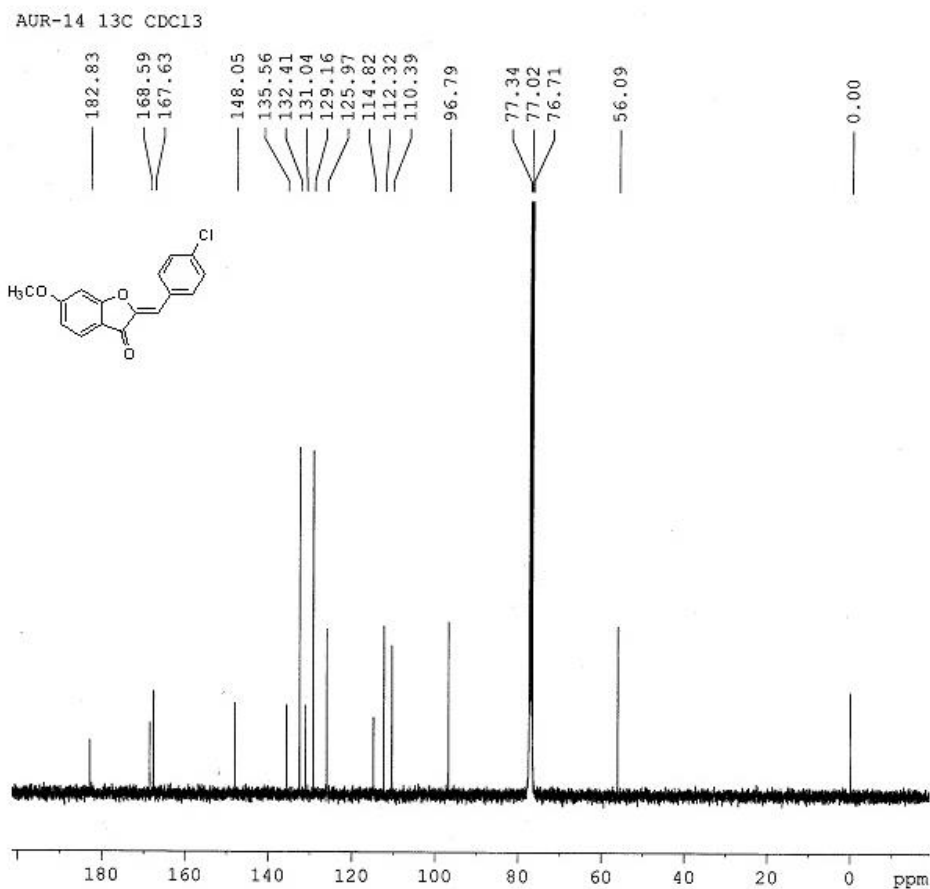
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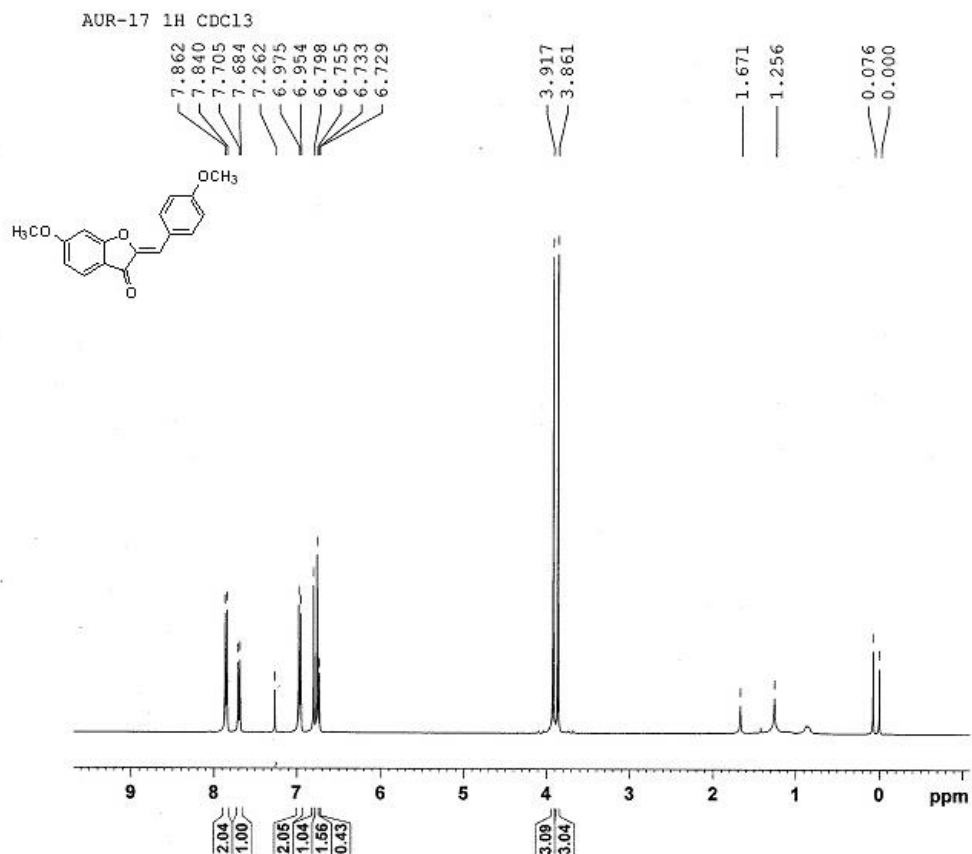
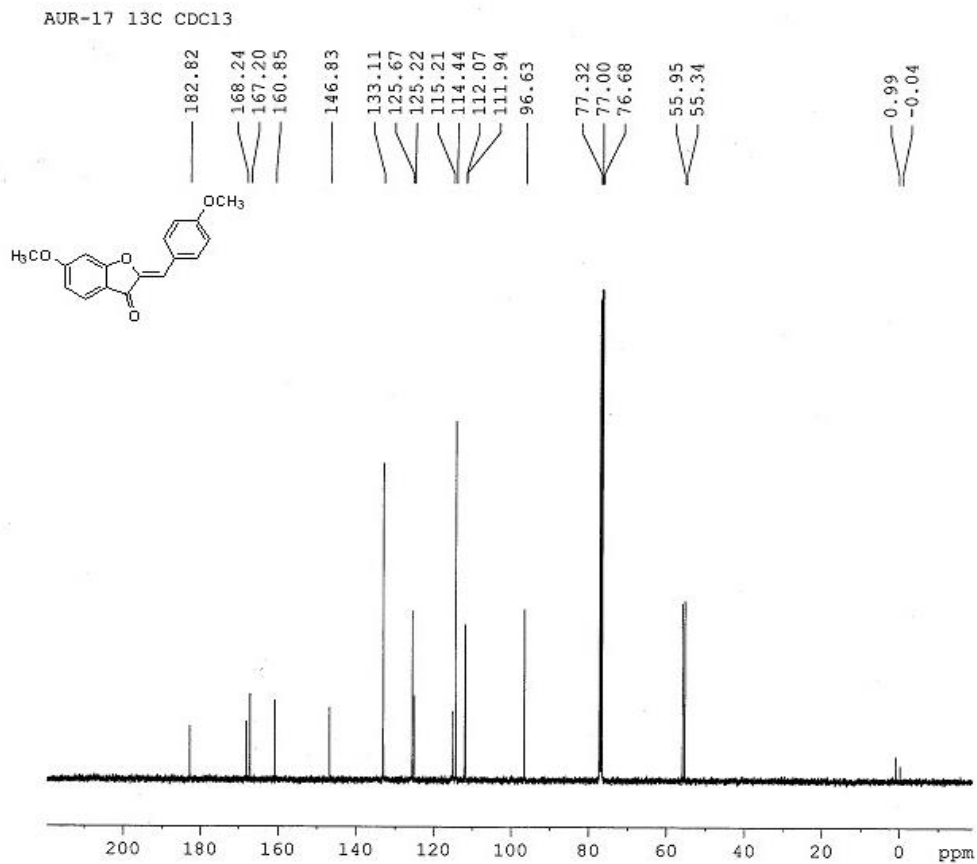
$^1\text{H}$  NMR of 2-(4-nitrobenzylidene)benzofuran-3(2H)-one (**4e**)Aur-7  $^1\text{H}$  DMSO $^{13}\text{C}$  NMR of 2-(4-nitrobenzylidene)benzofuran-3(2H)-one (**4e**)AUR-7  $^{13}\text{C}$  DMSO

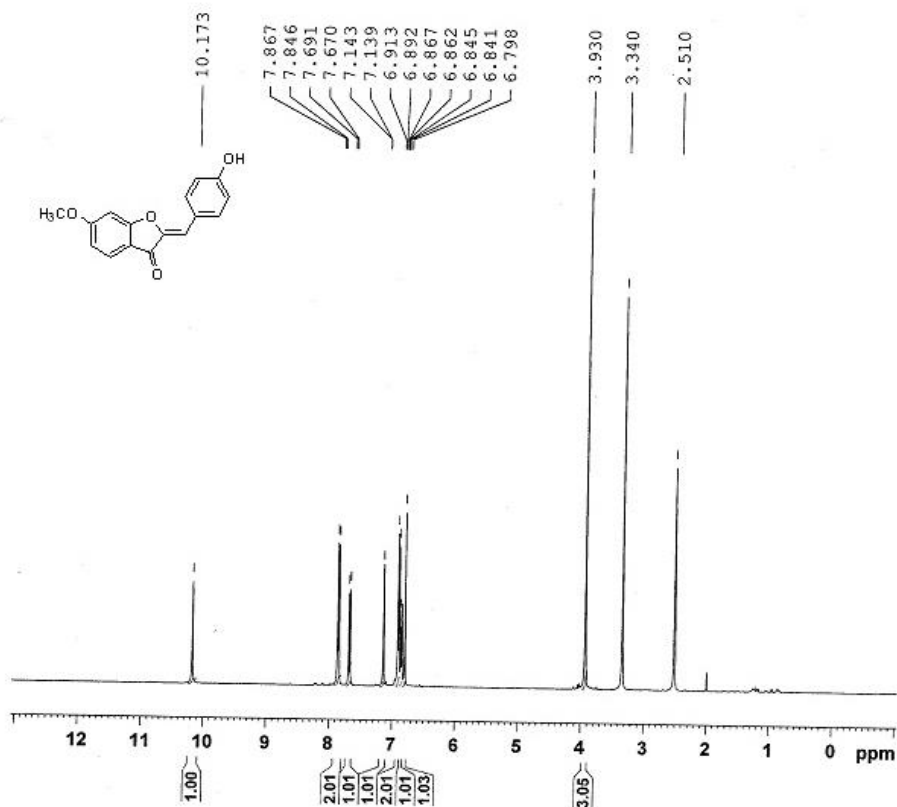
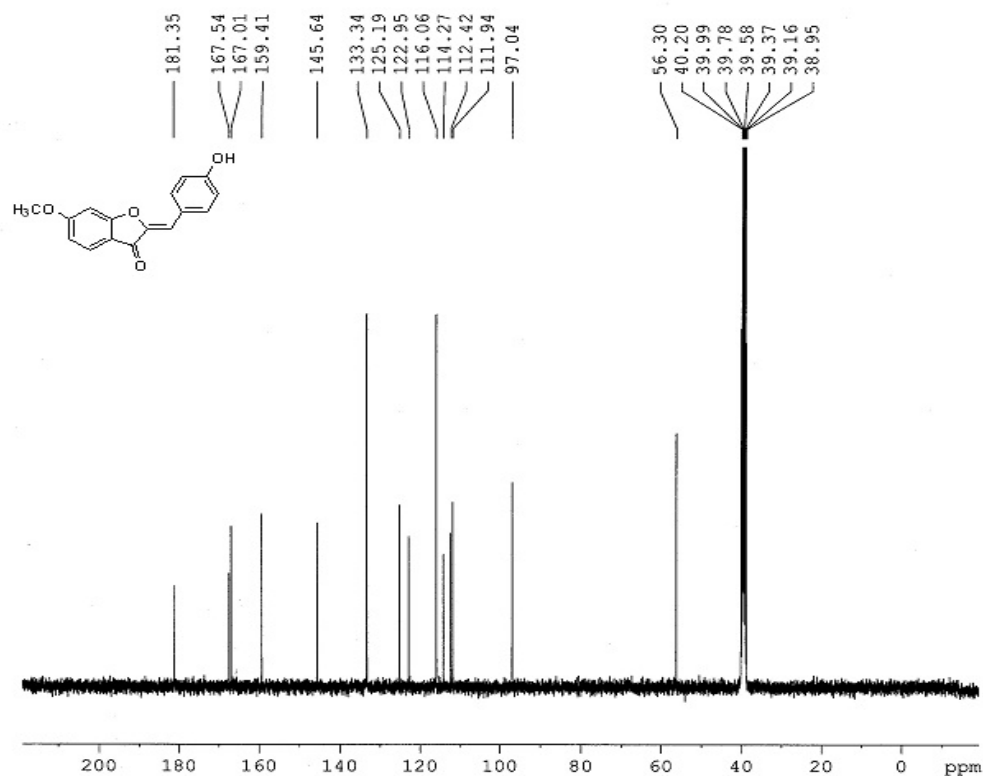
$^1\text{H}$  NMR of 2-(4-(dimethylamino)benzylidene)benzofuran-3(2H)-one (**4f**)Aur-6  $^1\text{H}$   $\text{CDCl}_3$  $^{13}\text{C}$  NMR of 2-(4-(dimethylamino)benzylidene)benzofuran-3(2H)-one (**4f**)Aur-6  $^{13}\text{C}$   $\text{CDCl}_3$ 

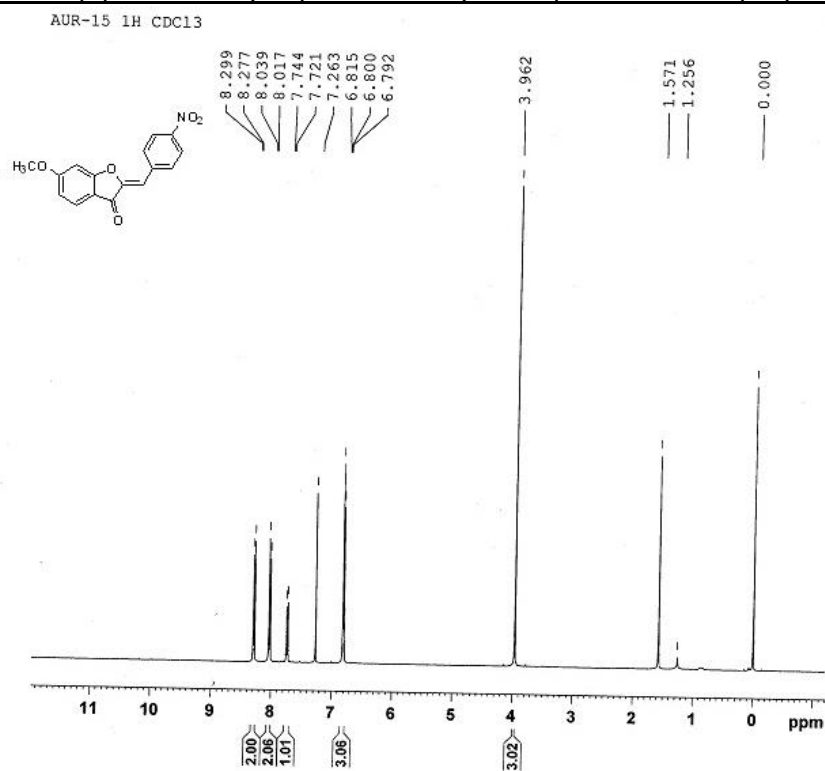
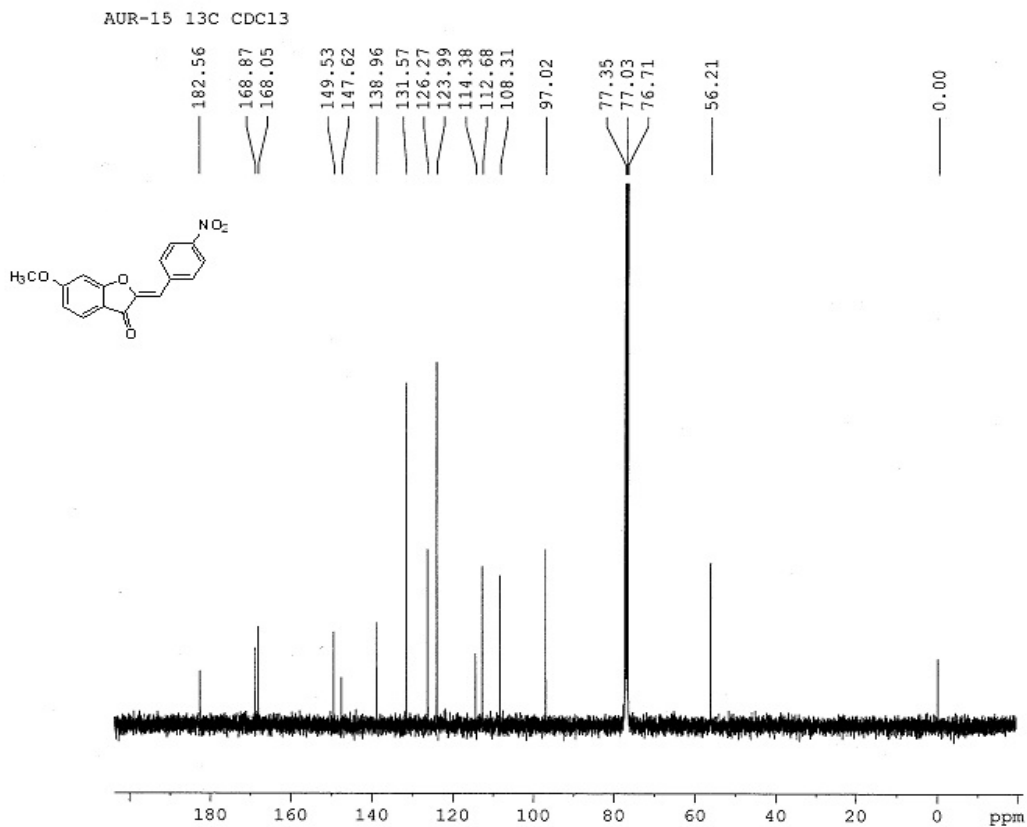


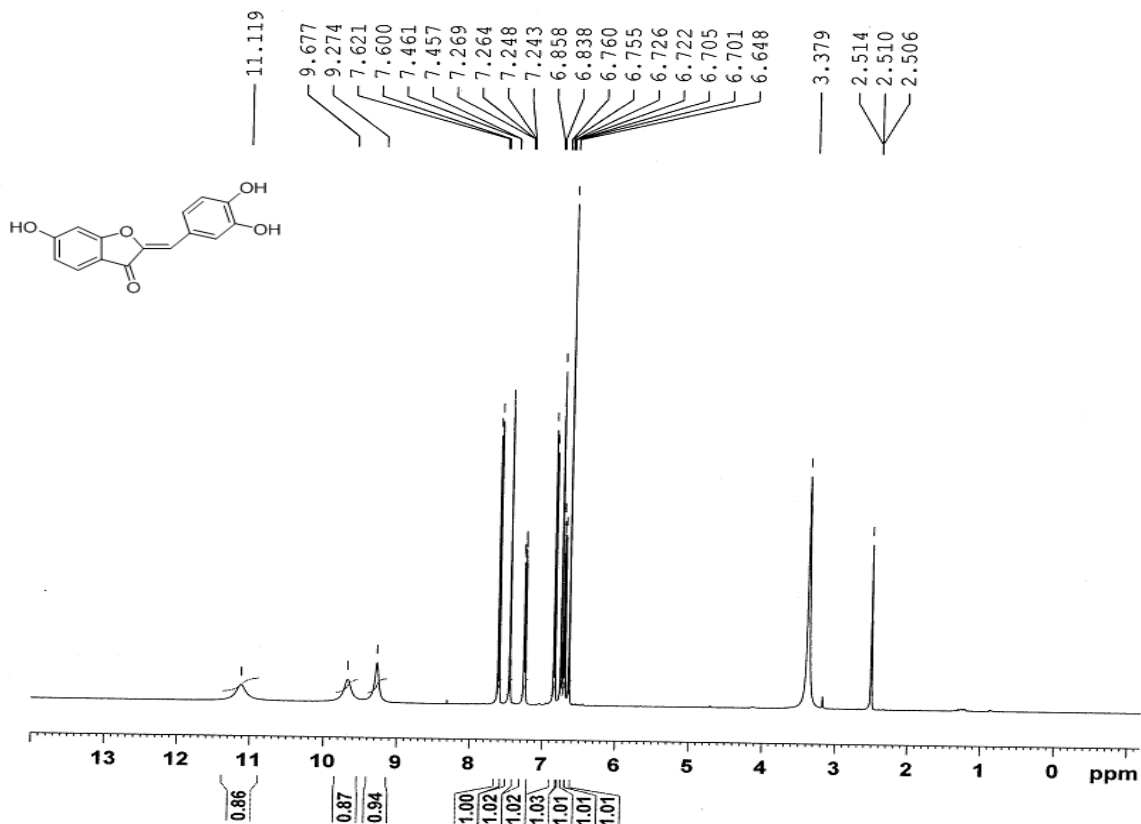
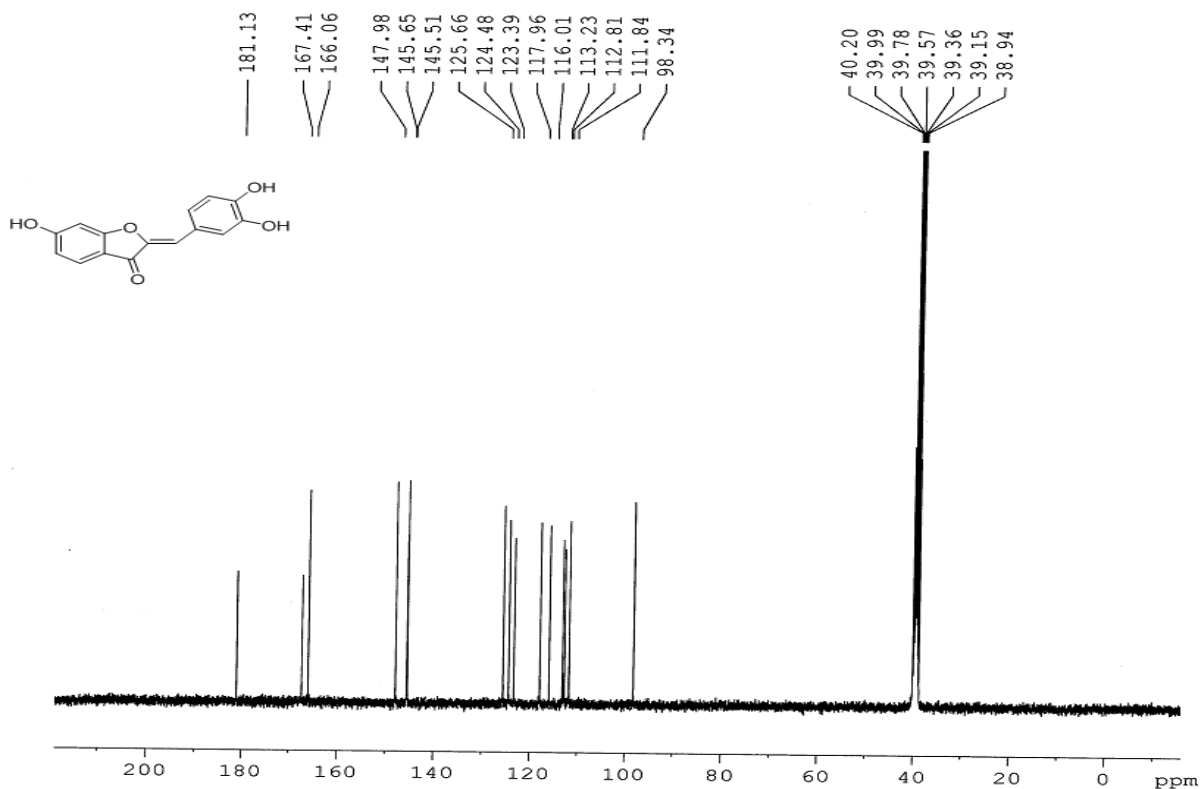
$^1\text{H}$  NMR of 2-benzylidene-6-methoxybenzofuran-3(2H)-one (**4g**)AUR-9  $^1\text{H}$   $\text{CDCl}_3$  $^{13}\text{C}$  NMR of 2-benzylidene-6-methoxybenzofuran-3(2H)-one (**4g**)AUR-9  $^{13}\text{C}$   $\text{CDCl}_3$ 

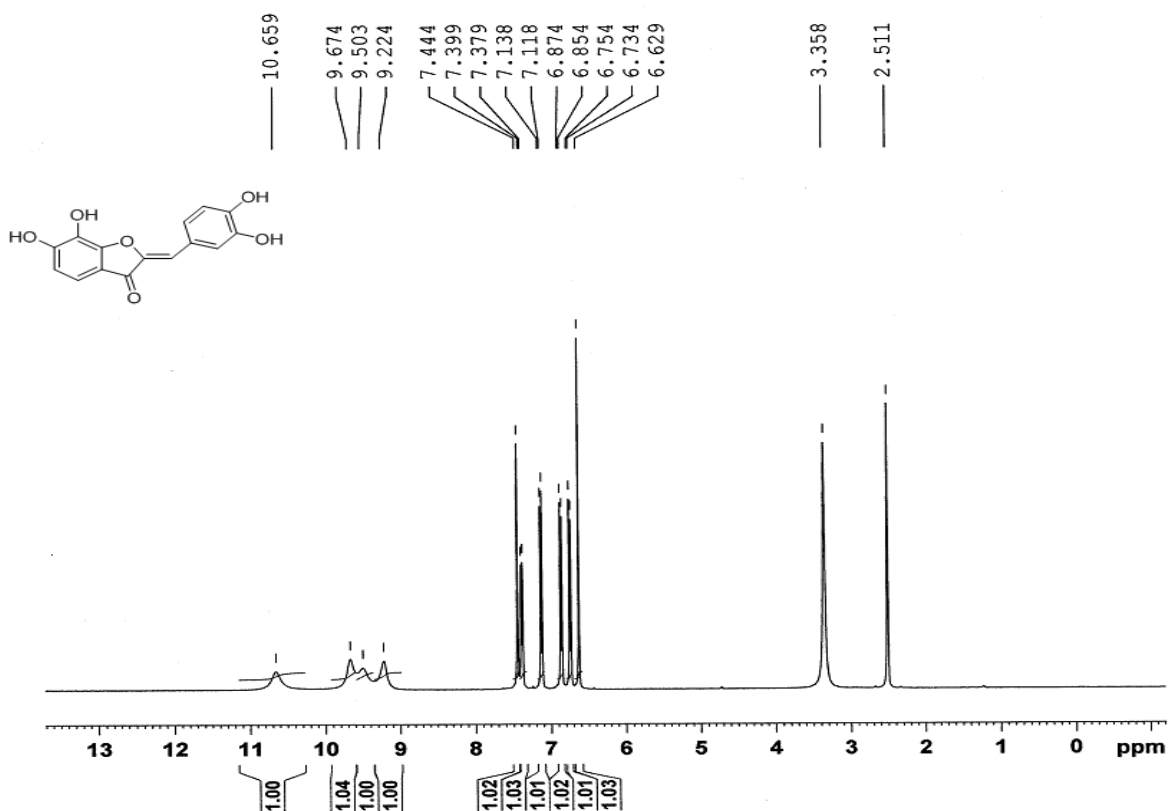
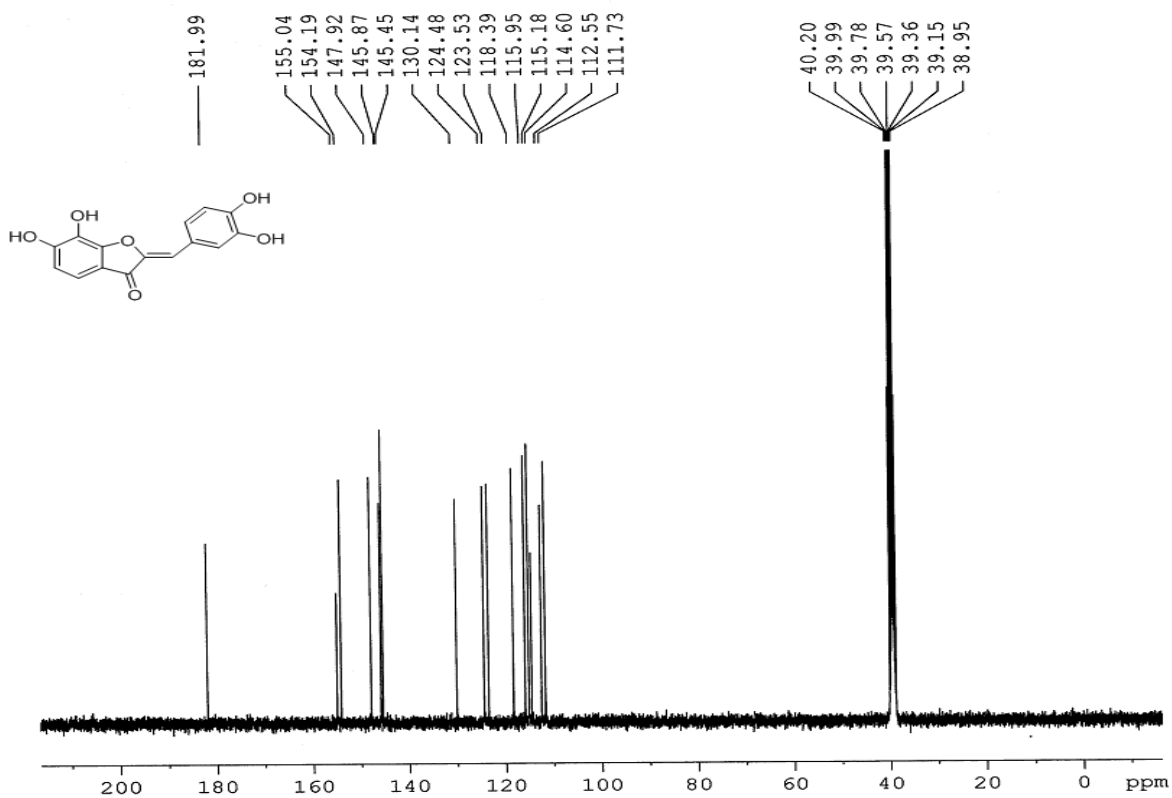
$^1\text{H}$  NMR of (Z)-2-(4-chlorobenzylidene)-6-methoxybenzofuran-3(2H)-one (4h) $^{13}\text{C}$  NMR of (Z)-2-(4-chlorobenzylidene)-6-methoxybenzofuran-3(2H)-one (4h)

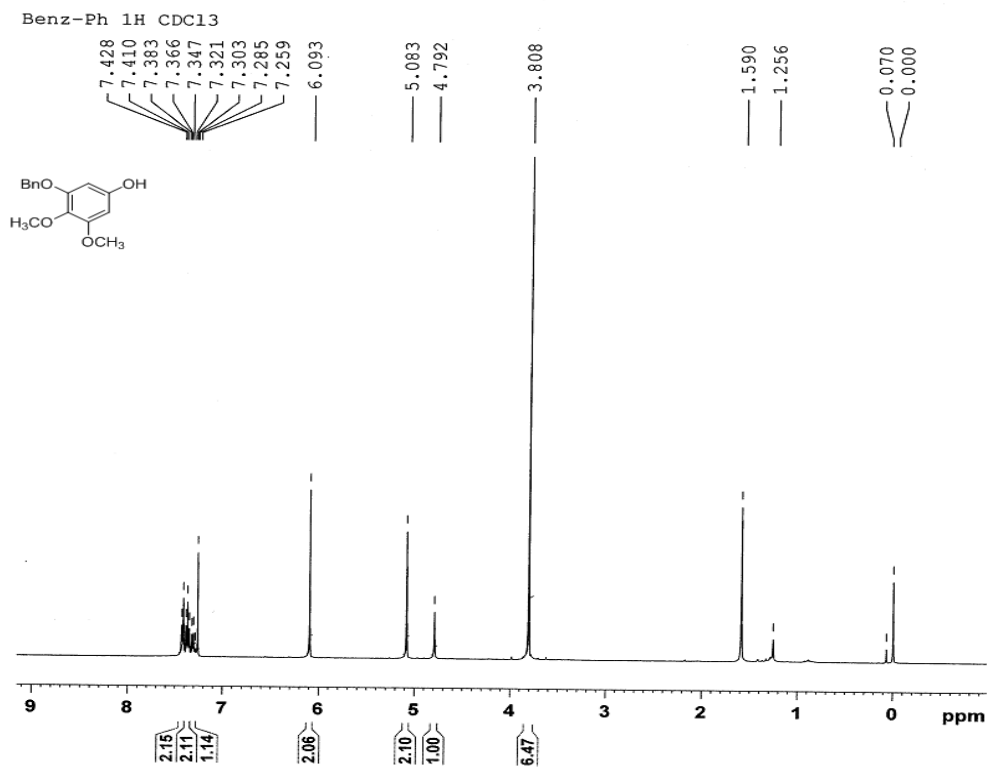
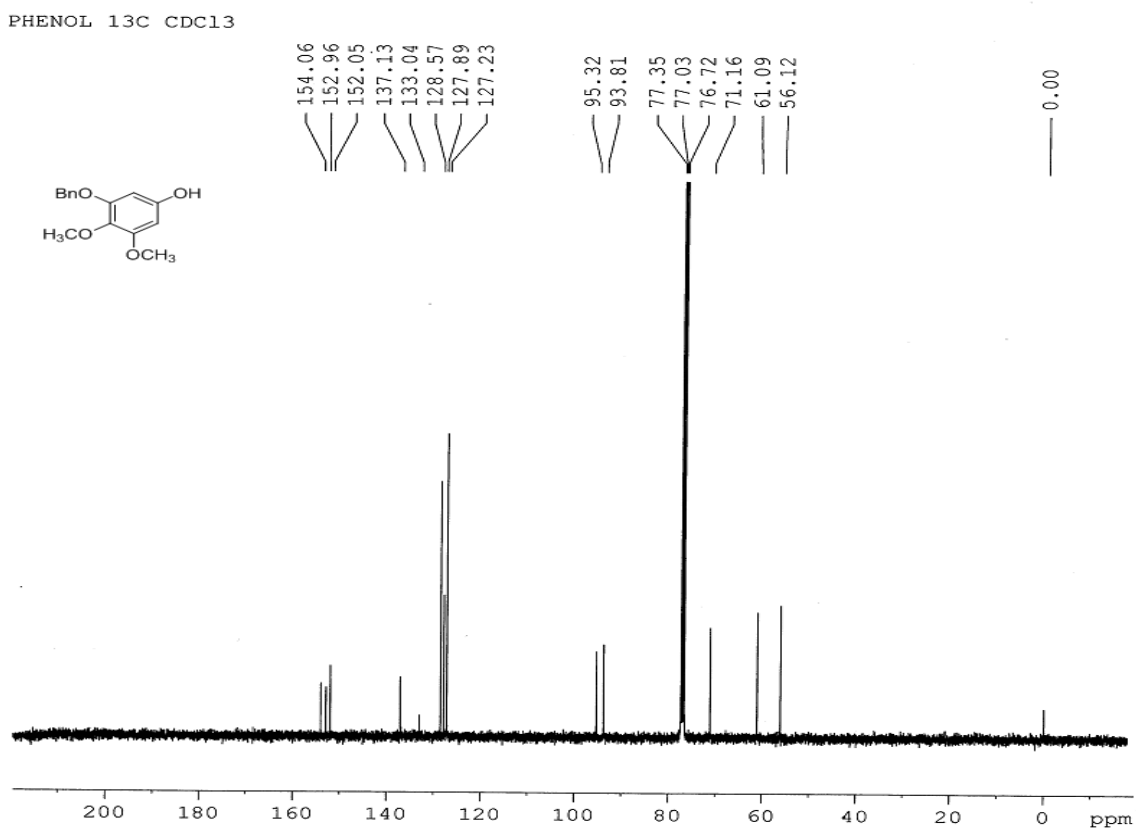
$^1\text{H}$  NMR of (Z)-6-methoxy-2-(4-methoxybenzylidene)benzofuran-3(2H)-one (4i) $^{13}\text{C}$  NMR of (Z)-6-methoxy-2-(4-methoxybenzylidene)benzofuran-3(2H)-one (4i)

$^1\text{H}$  NMR of (Z)-2-(4-hydroxybenzylidene)-6-methoxybenzofuran-3(2H)-one (4j)AUR-16  $^1\text{H}$  DMSO $^{13}\text{C}$  NMR of (Z)-2-(4-hydroxybenzylidene)-6-methoxybenzofuran-3(2H)-one (4j)AUR-16  $^{13}\text{C}$  DMSO

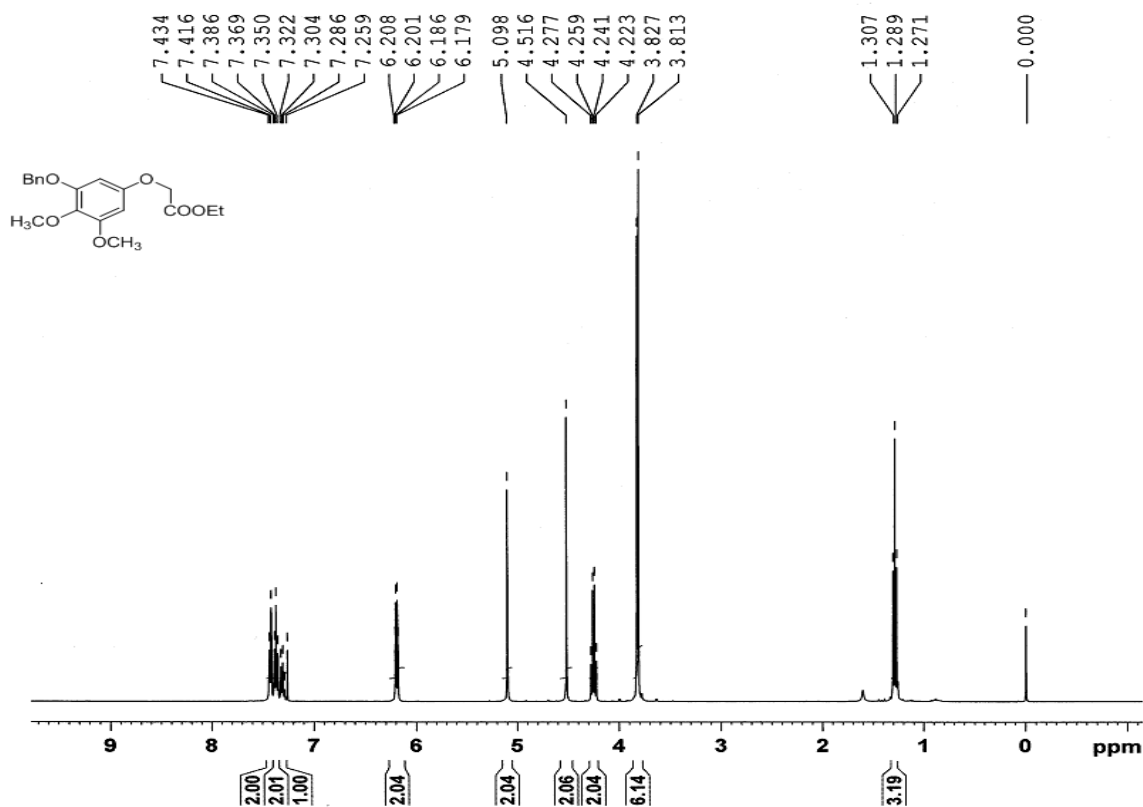
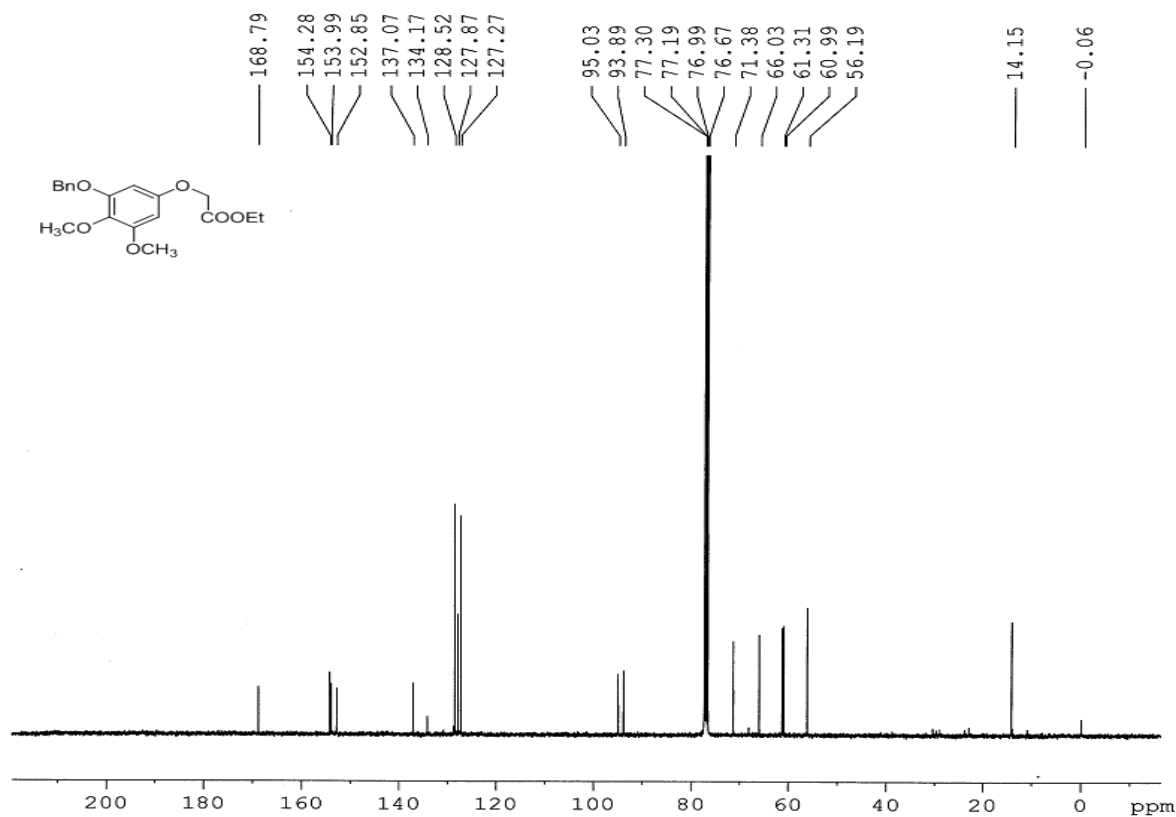
$^1\text{H}$  NMR of (Z)-6-methoxy-2-(4-nitrobenzylidene)benzofuran-3(2H)-one (4k) $^{13}\text{C}$  NMR of (Z)-6-methoxy-2-(4-nitrobenzylidene)benzofuran-3(2H)-one (4k)

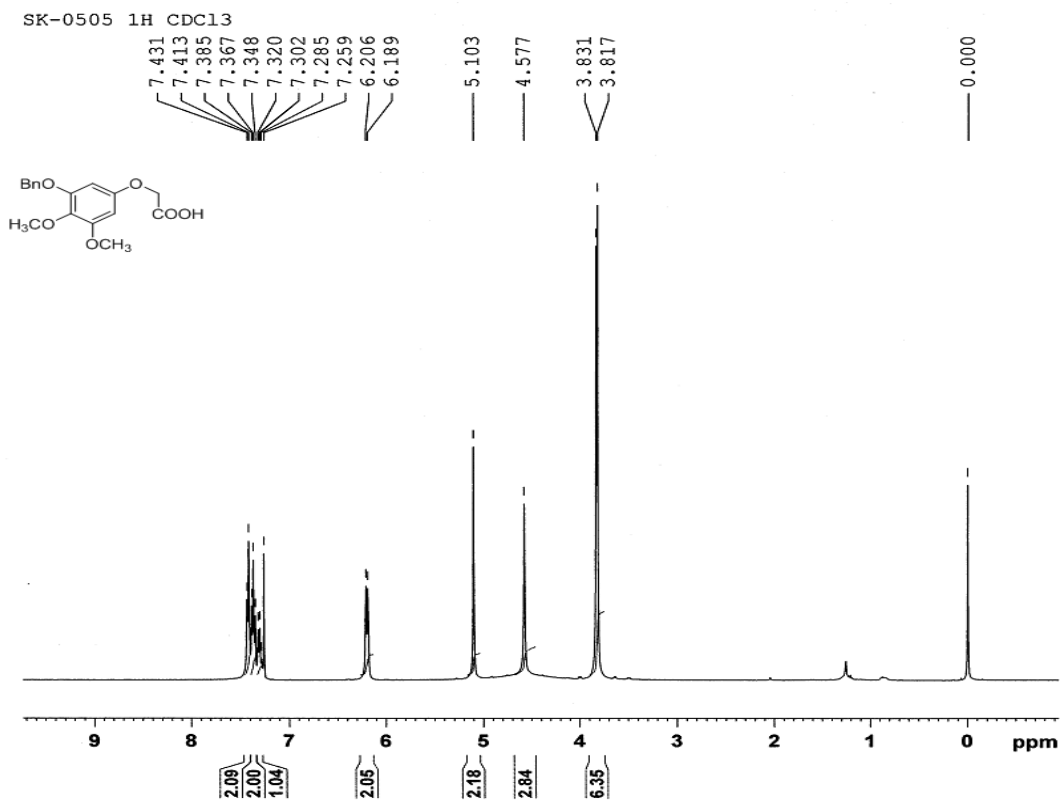
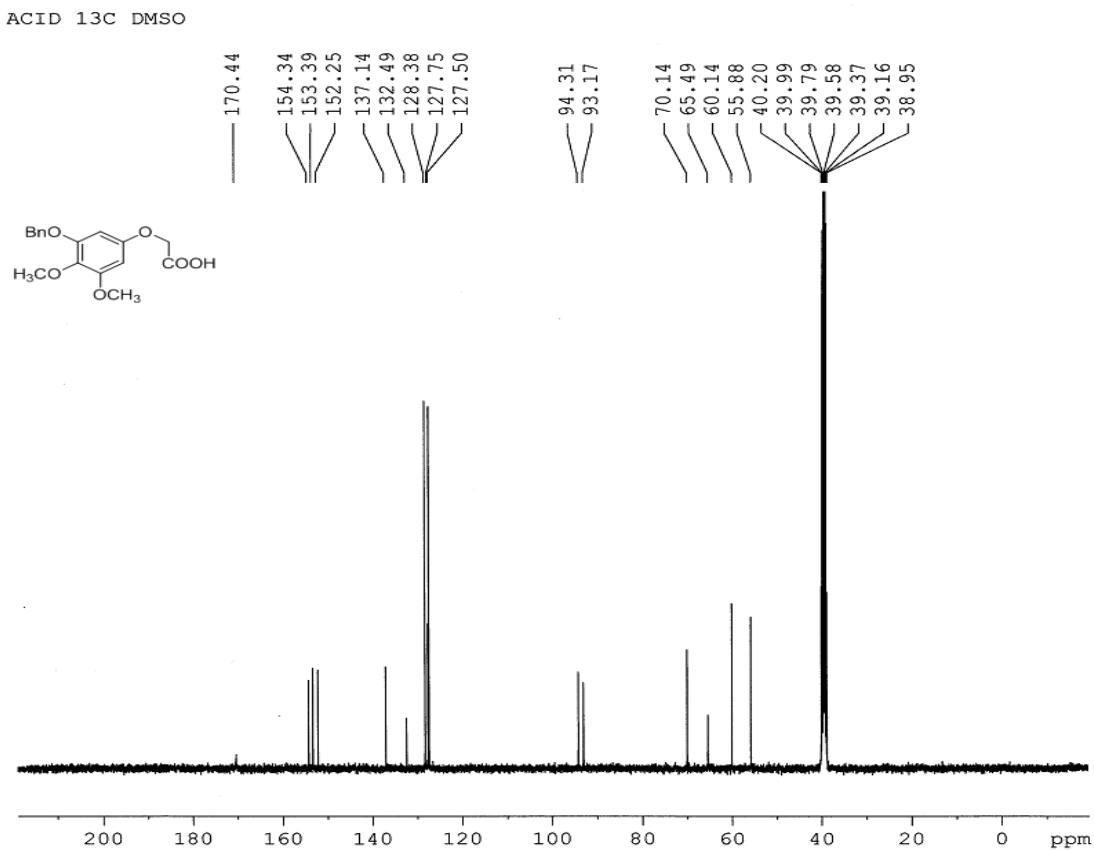
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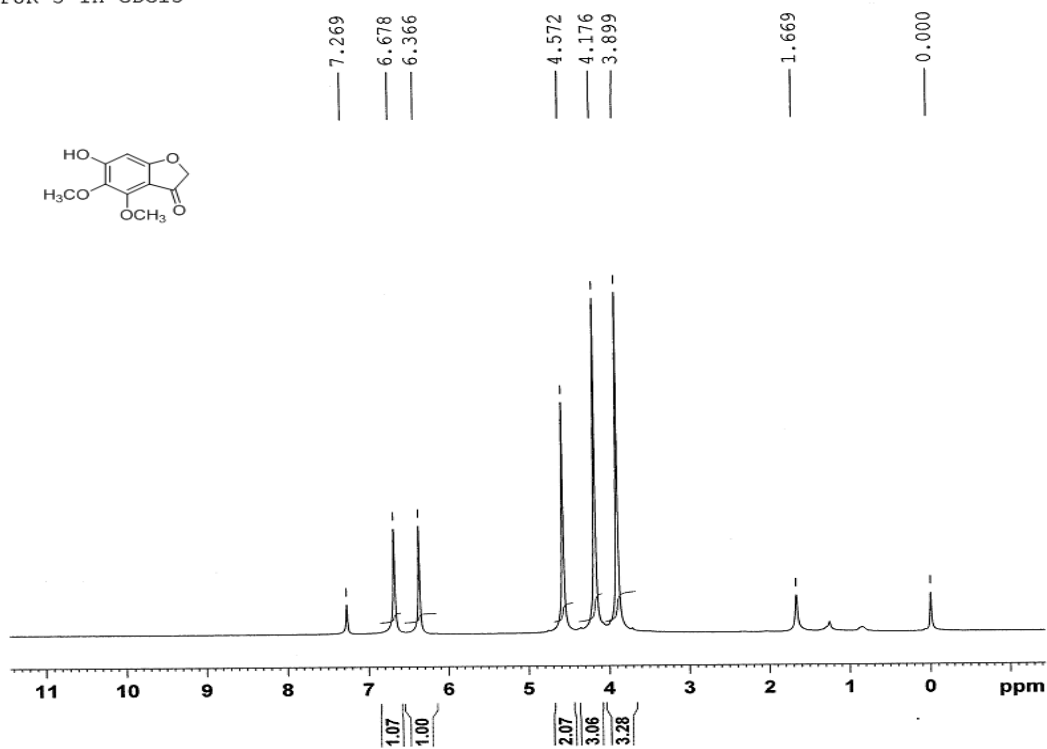
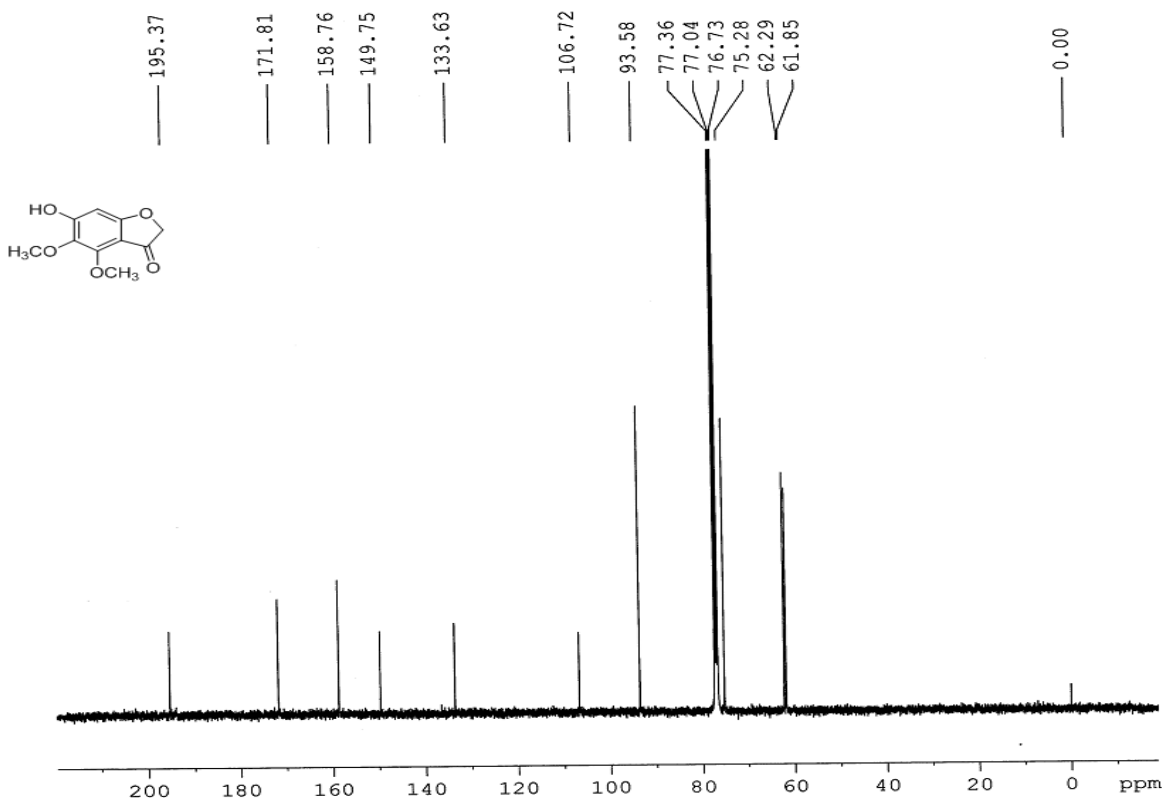
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<sup>1</sup>H NMR of 3-benzyloxy-4,5-dimethoxyphenol (**8**)<sup>13</sup>C NMR of 3-benzyloxy-4,5-dimethoxyphenol (**8**)

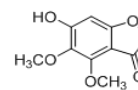
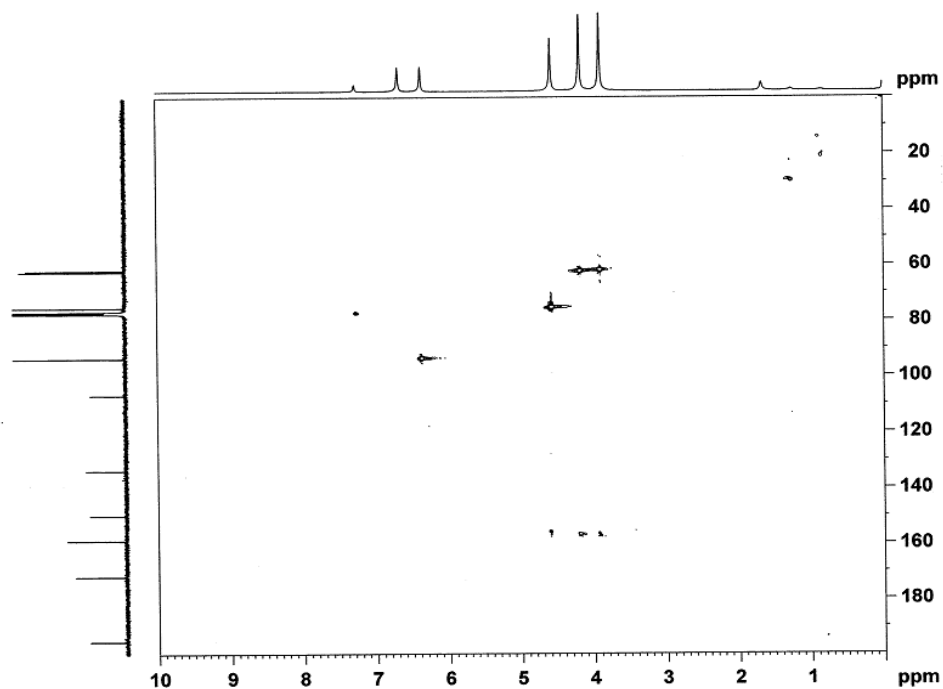


<sup>1</sup>H NMR of ethyl 2-(3-(benzyloxy)-4,5-dimethoxyphenoxy)acetate (9)SK-0405 1H CDCl<sub>3</sub><sup>13</sup>C NMR of ethyl 2-(3-(benzyloxy)-4,5-dimethoxyphenoxy)acetate (9)ESTER 13C CDCl<sub>3</sub>

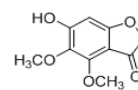
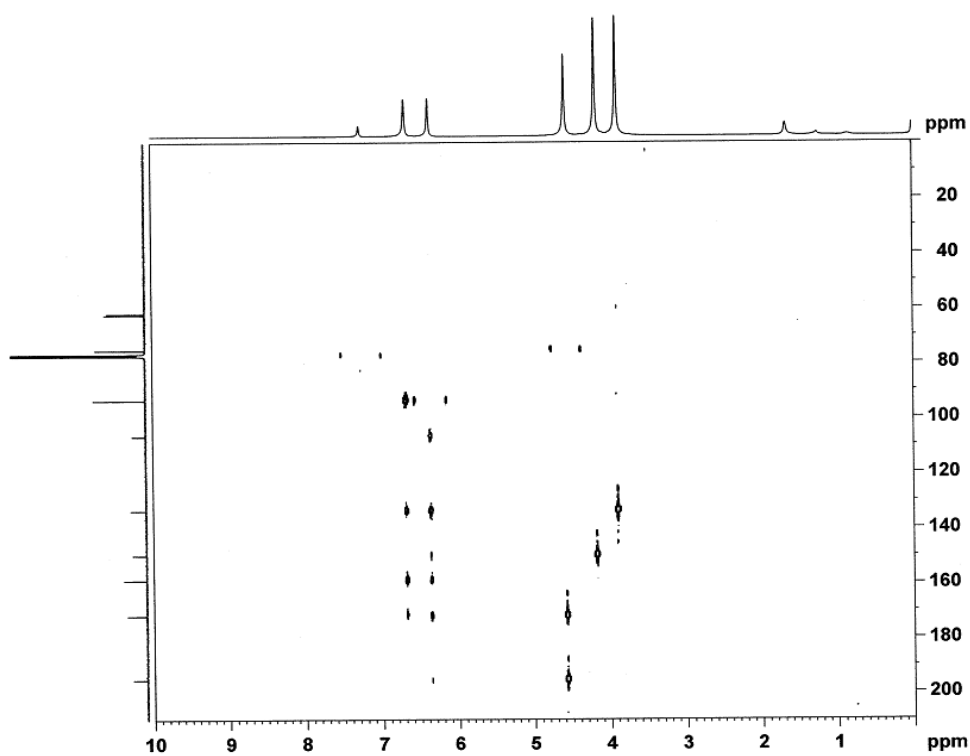
<sup>1</sup>H NMR of 2-(3-(benzyloxy)-4,5-dimethoxyphenoxy)acetic acid (**10**)<sup>13</sup>C NMR of 2-(3-(benzyloxy)-4,5-dimethoxyphenoxy)acetic acid (**10**)

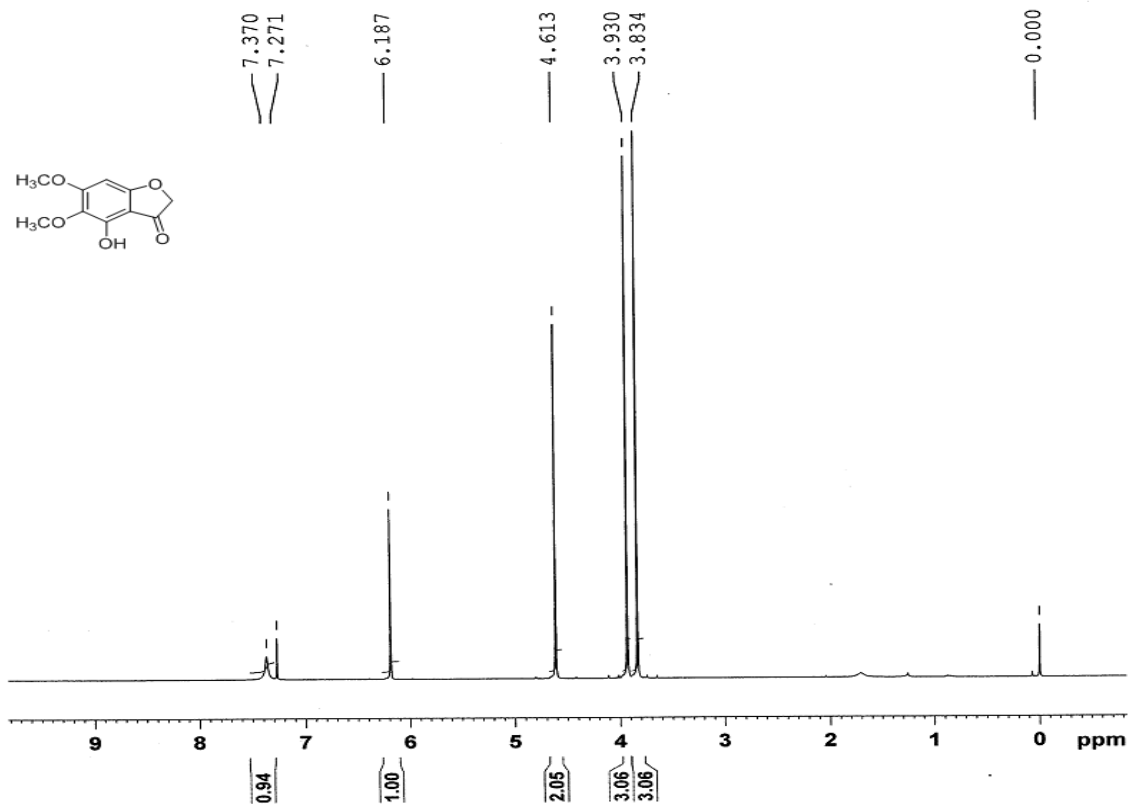
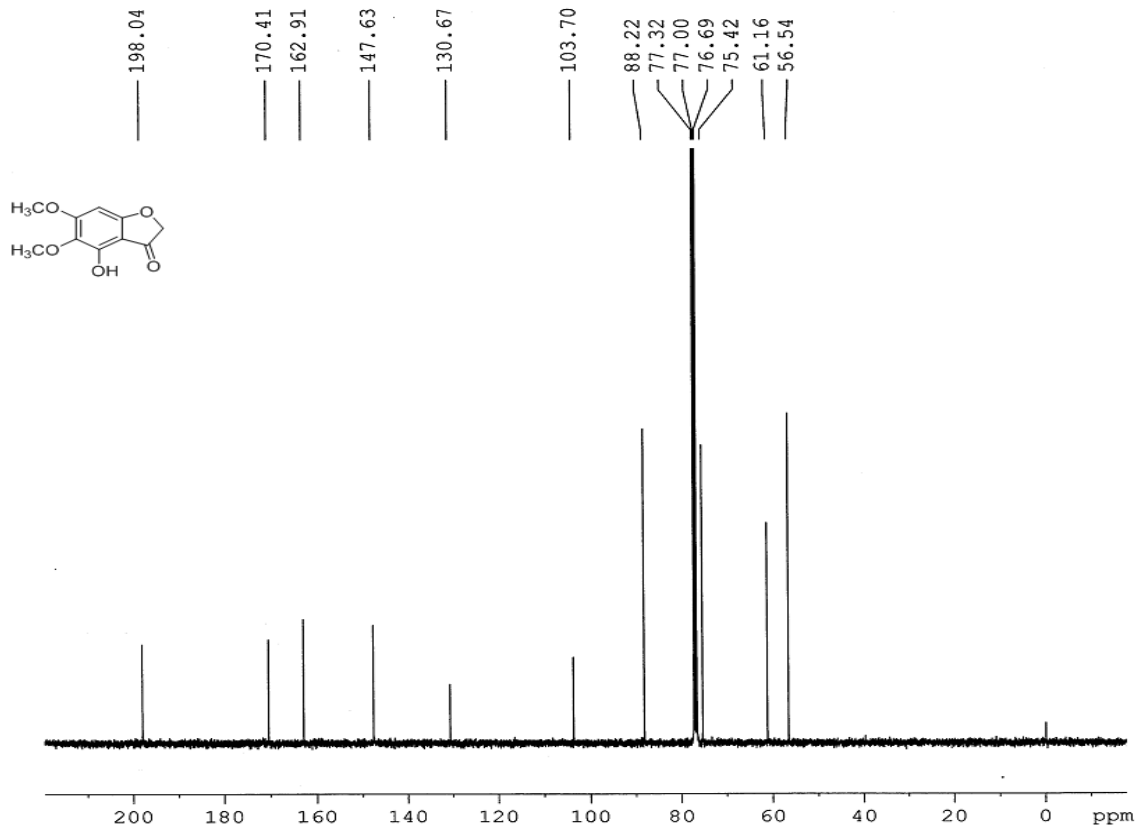
$^1\text{H}$  NMR of 6-hydroxy-4,5-dimethoxybenzofuran-3(2H)-one (**11**)FUR-5  $^1\text{H}$  CDCl<sub>3</sub> $^{13}\text{C}$  NMR of 6-hydroxy-4,5-dimethoxybenzofuran-3(2H)-one (**11**)FUR-5  $^{13}\text{C}$  CDCl<sub>3</sub>

## HSQC of 6-hydroxy-4,5-dimethoxybenzofuran-3(2H)-one (11)

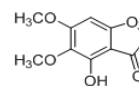
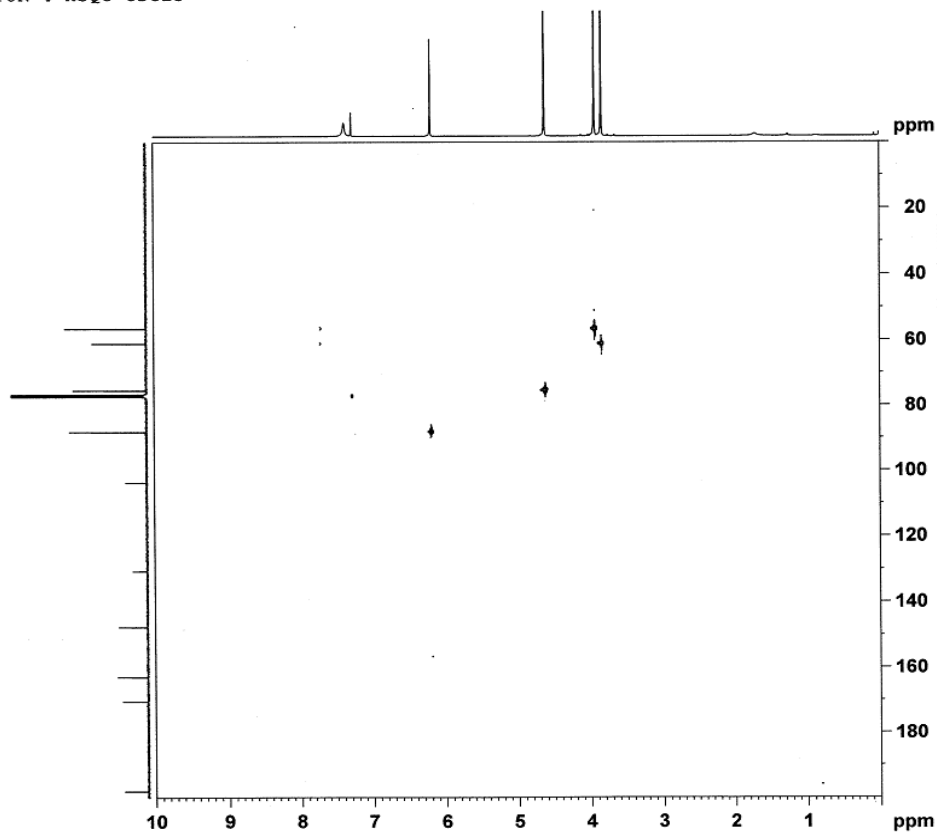
FUR-5 HSQC CDCl<sub>3</sub>

## HMBC of 6-hydroxy-4,5-dimethoxybenzofuran-3(2H)-one (11)

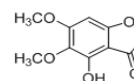
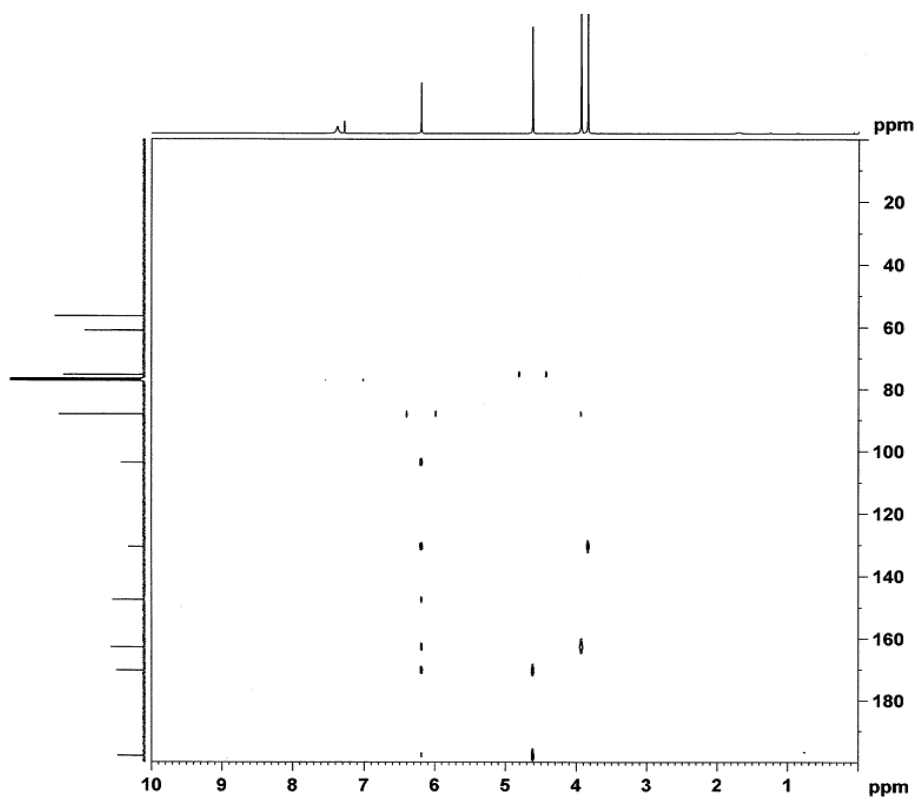
FUR-5 HMBC CDCl<sub>3</sub>

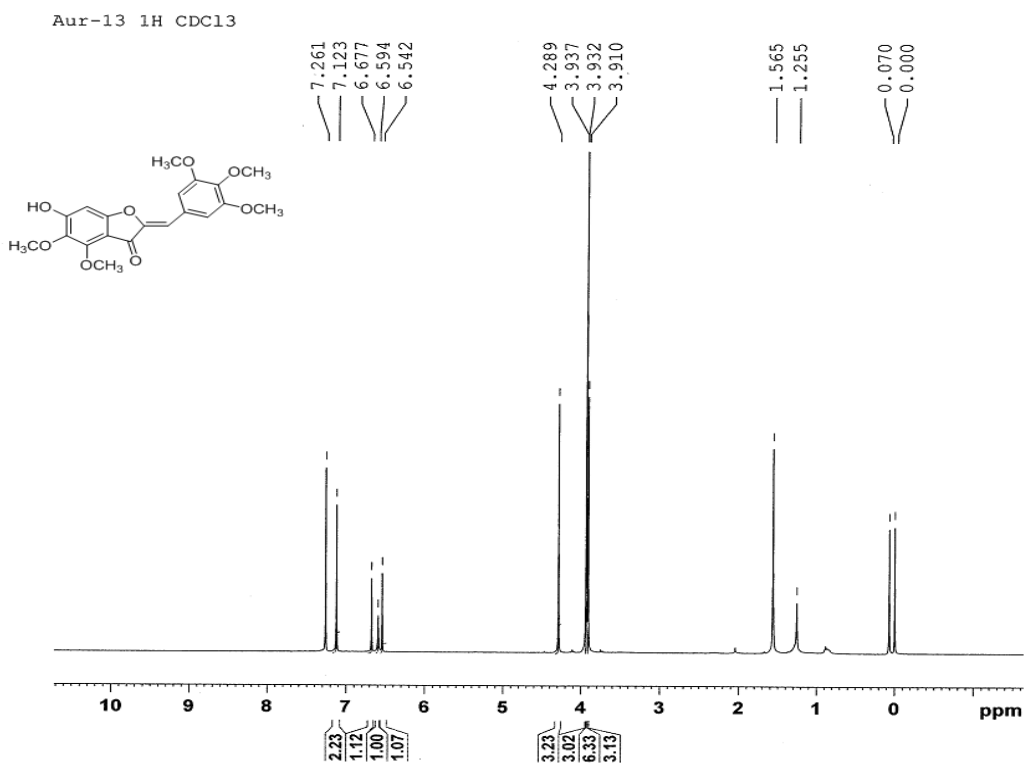
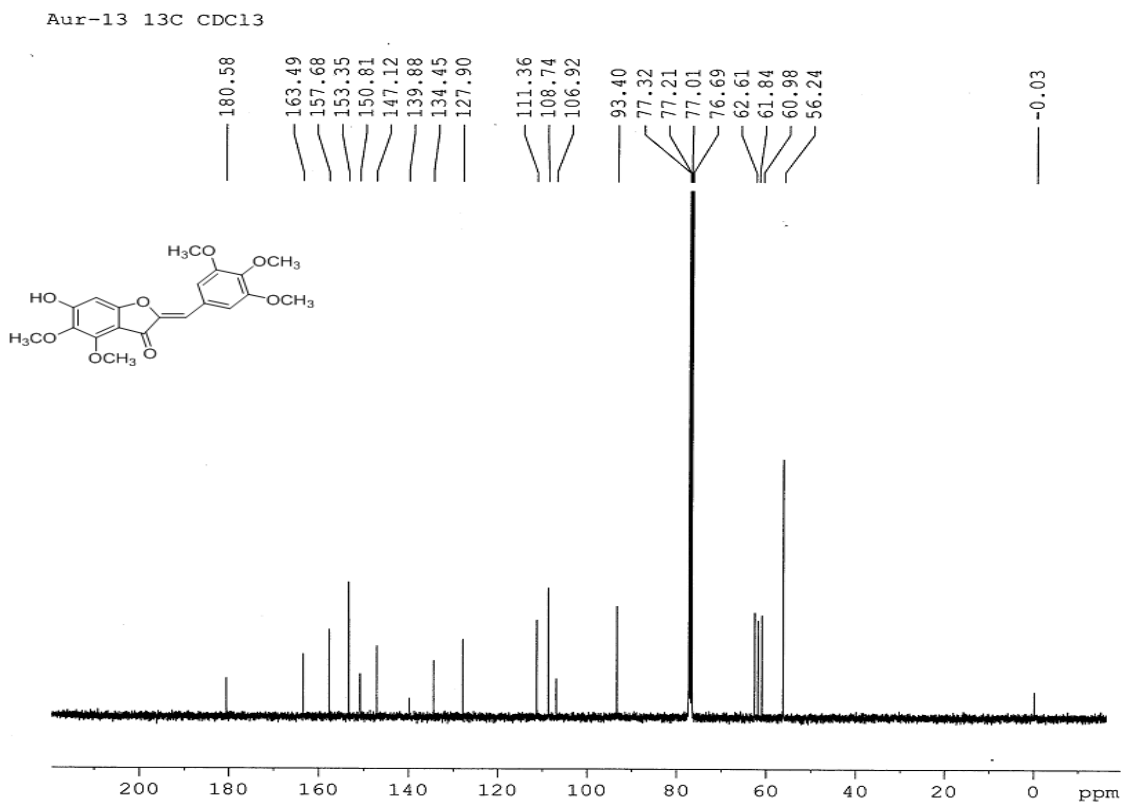
$^1\text{H}$  NMR of 4-hydroxy-5,6-dimethoxybenzofuran-3(2H)-one (12)FUR-4  $^1\text{H}$  CDCl<sub>3</sub> $^{13}\text{C}$  NMR of 4-hydroxy-5,6-dimethoxybenzofuran-3(2H)-one (12)FUR-4  $^{13}\text{C}$  CDCl<sub>3</sub>

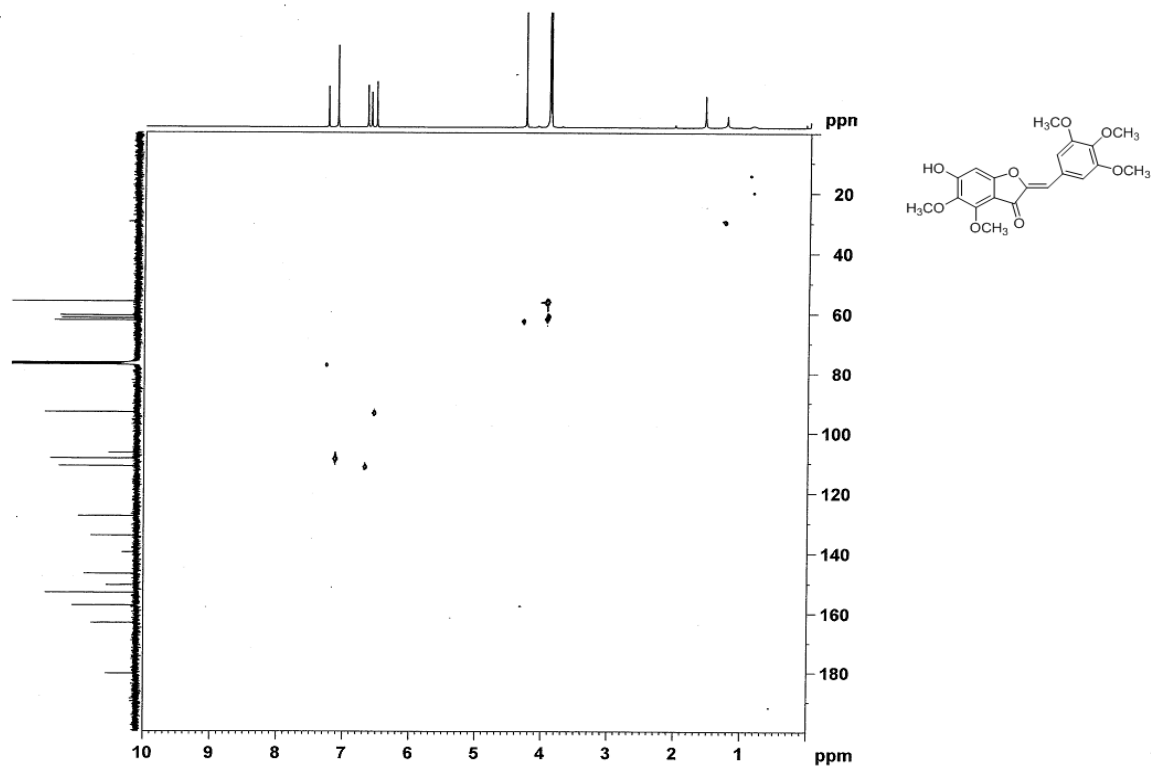
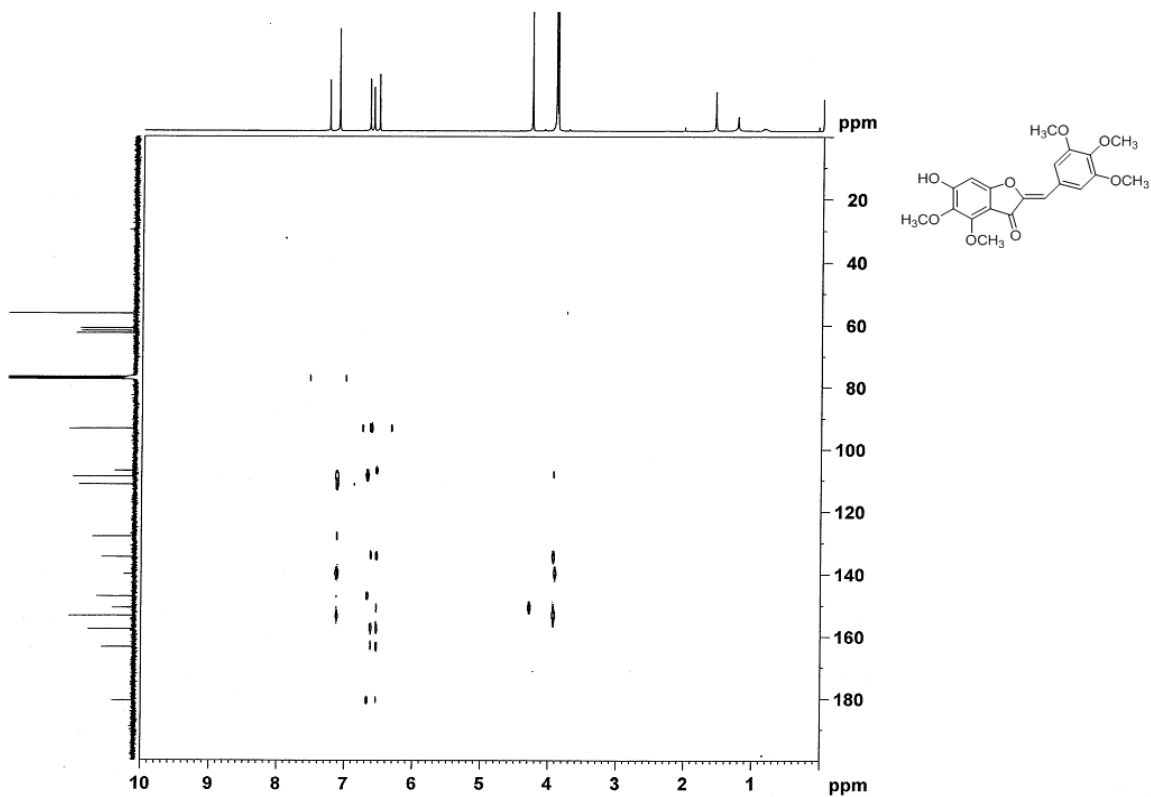
## HSQC of 4-hydroxy-5,6-dimethoxybenzofuran-3(2H)-one (12)

FUR-4 HSQC CDCl<sub>3</sub>

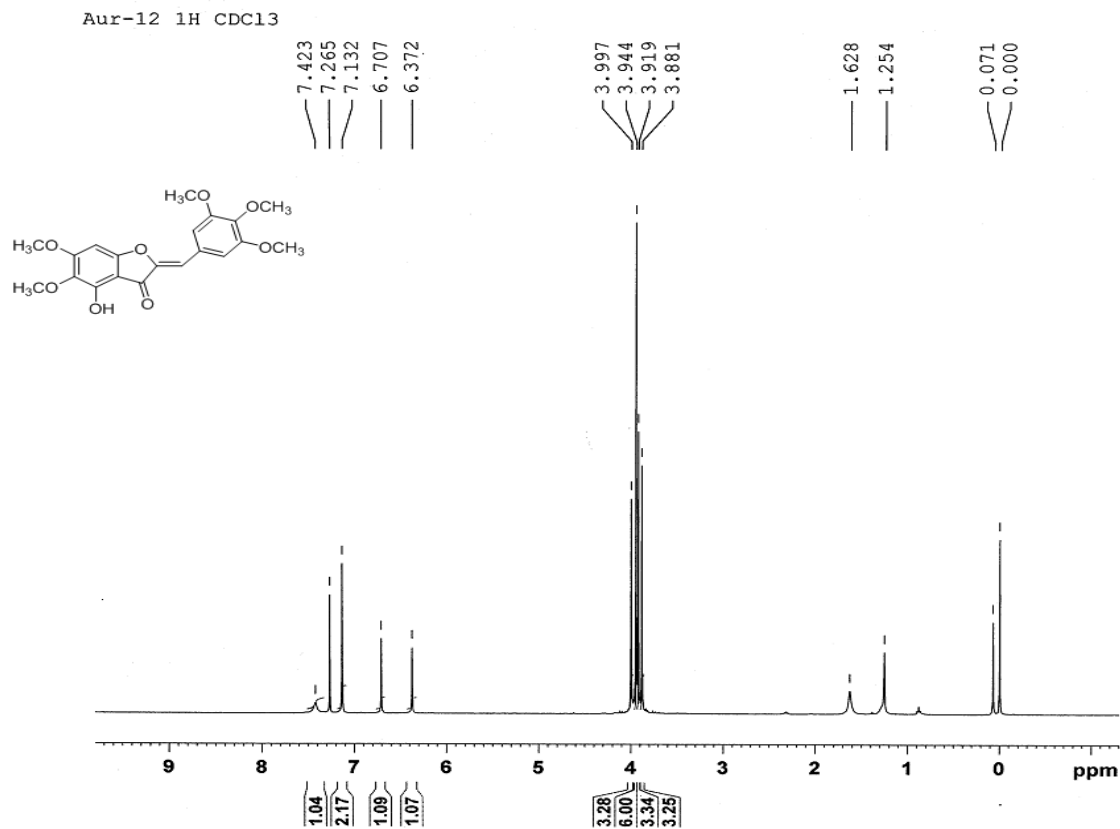
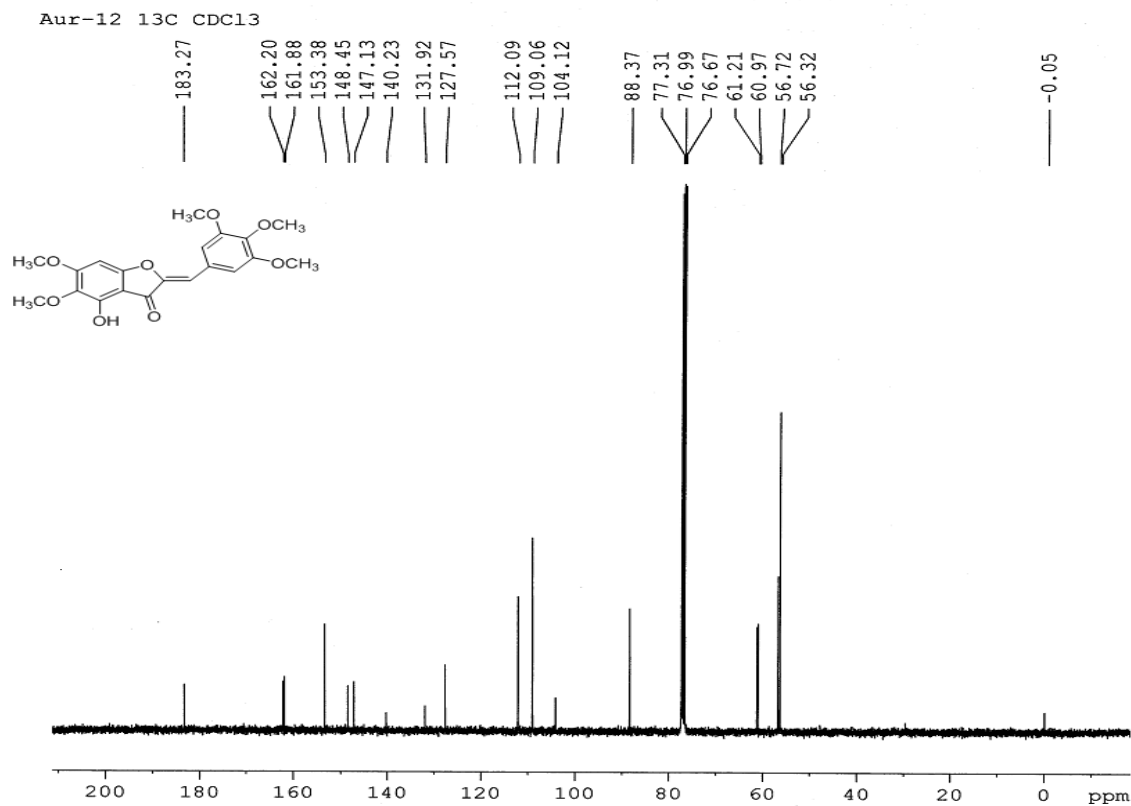
## HMBC of 4-hydroxy-5,6-dimethoxybenzofuran-3(2H)-one (12)

FUR-4 HMBC CDCl<sub>3</sub>

**<sup>1</sup>H NMR of 6-hydroxy-4,5-dimethoxy-2-(3,4,5-trimethoxybenzylidene)benzofuran-3(2H)-one (13)****<sup>13</sup>C NMR of 6-hydroxy-4,5-dimethoxy-2-(3,4,5-trimethoxybenzylidene)benzofuran-3(2H)-one (13)**

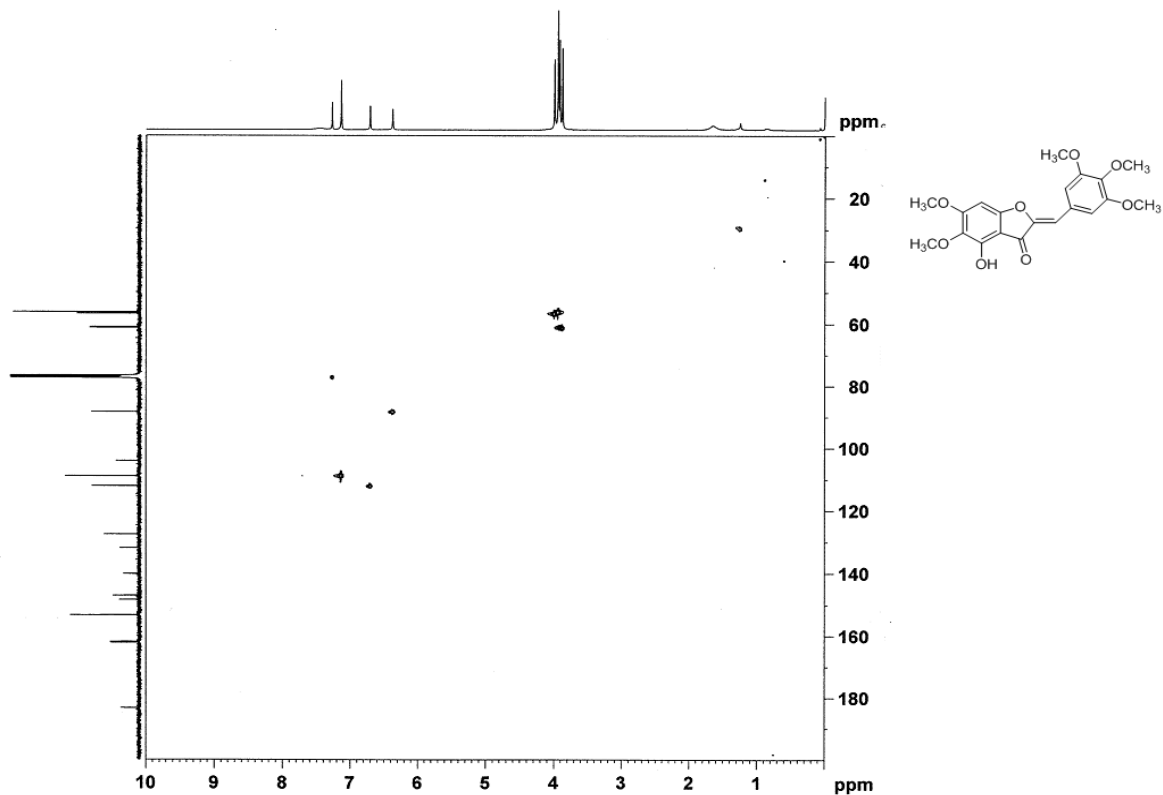
HSQC of 6-hydroxy-4,5-dimethoxy-2-(3,4,5-trimethoxybenzylidene)benzofuran-3(2H)-one (**13**)AUR-13 HSQC CDCl<sub>3</sub>HMBC of 6-hydroxy-4,5-dimethoxy-2-(3,4,5-trimethoxybenzylidene)benzofuran-3(2H)-one (**13**)AUR-13 HMBC CDCl<sub>3</sub>



<sup>1</sup>H NMR of 4-hydroxy-5,6-dimethoxy-2-(3,4,5-trimethoxybenzylidene)benzofuran-3(2H)-one (14)<sup>13</sup>C NMR of 4-hydroxy-5,6-dimethoxy-2-(3,4,5-trimethoxybenzylidene)benzofuran-3(2H)-one (14)

HSQC of 4-hydroxy-5,6-dimethoxy-2-(3,4,5-trimethoxybenzylidene)benzofuran-3(2H)-one (**14**)

AUR-12 HSQC CDC13

HMBC of 4-hydroxy-5,6-dimethoxy-2-(3,4,5-trimethoxybenzylidene)benzofuran-3(2H)-one (**14**)

AUR-12 HMBC CDC13

