

## Supporting Information

### New phenolic glycosides from *Coelogyne fuscescens* Lindl. var. *brunnea* and their cytotoxicity against human breast cancer cells

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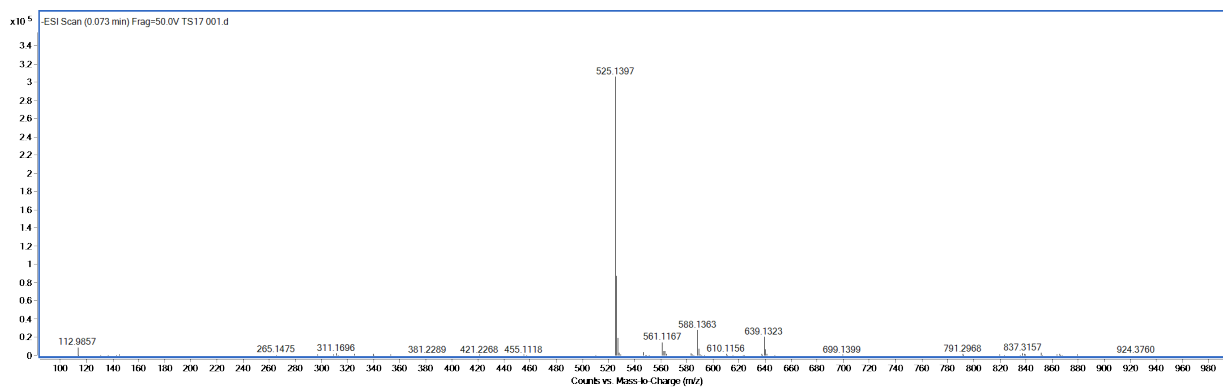
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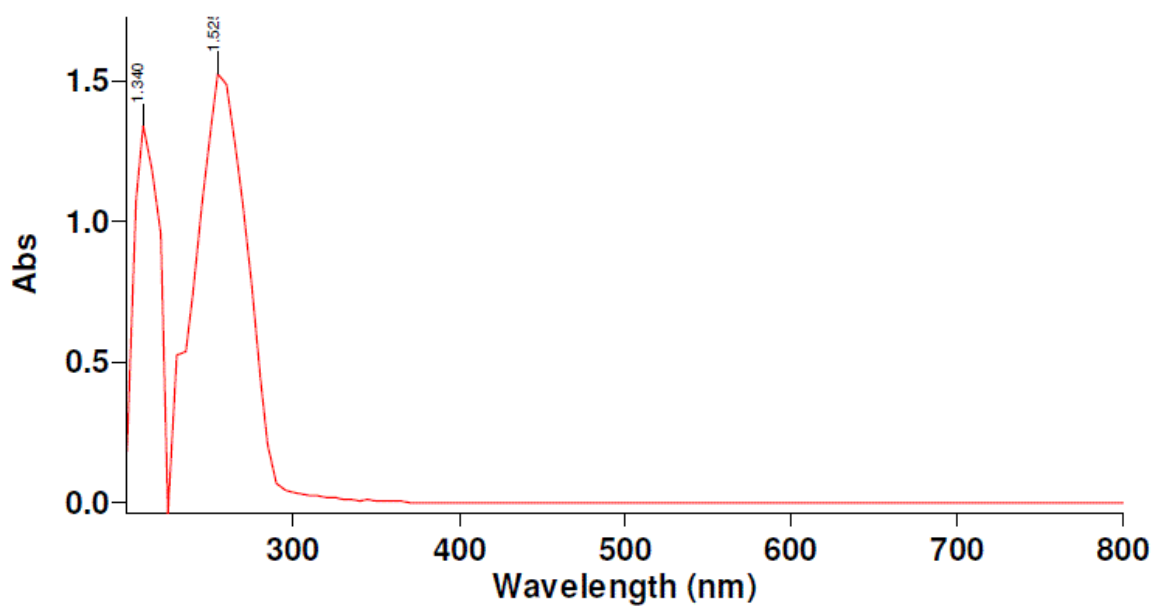
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**Figure 1S.** HR-ESI-MS spectrum of compound **1**



**Figure 2S.** UV spectrum of compound **1** (0.2 mg) in 3 ml of methanol

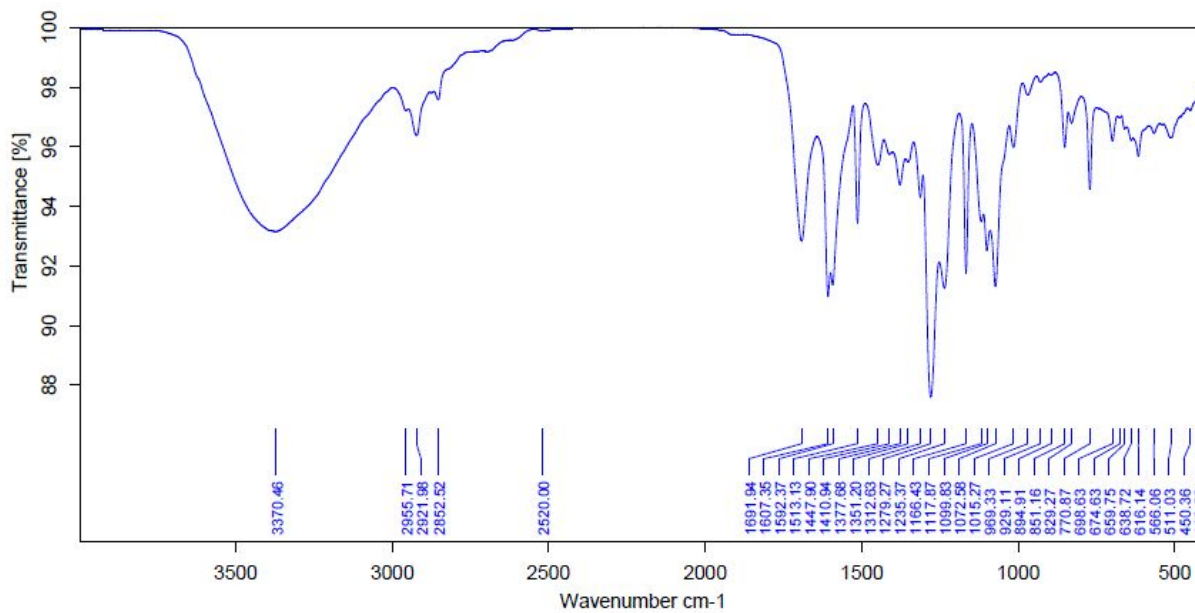


Figure 3S. FT-IR spectrum of compound 1

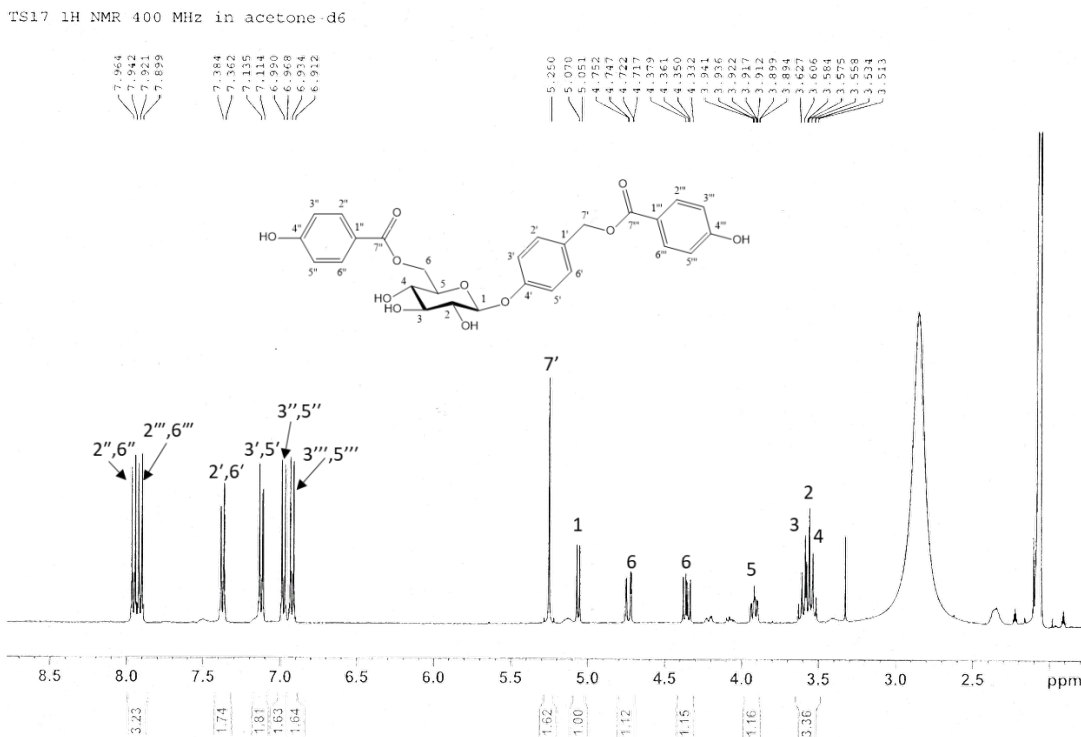


Figure 4S. <sup>1</sup>H NMR (acetone-d<sub>6</sub>, 400 MHz) spectrum of compound 1

TS17 13C NMR 100 MHz in acetone-d6

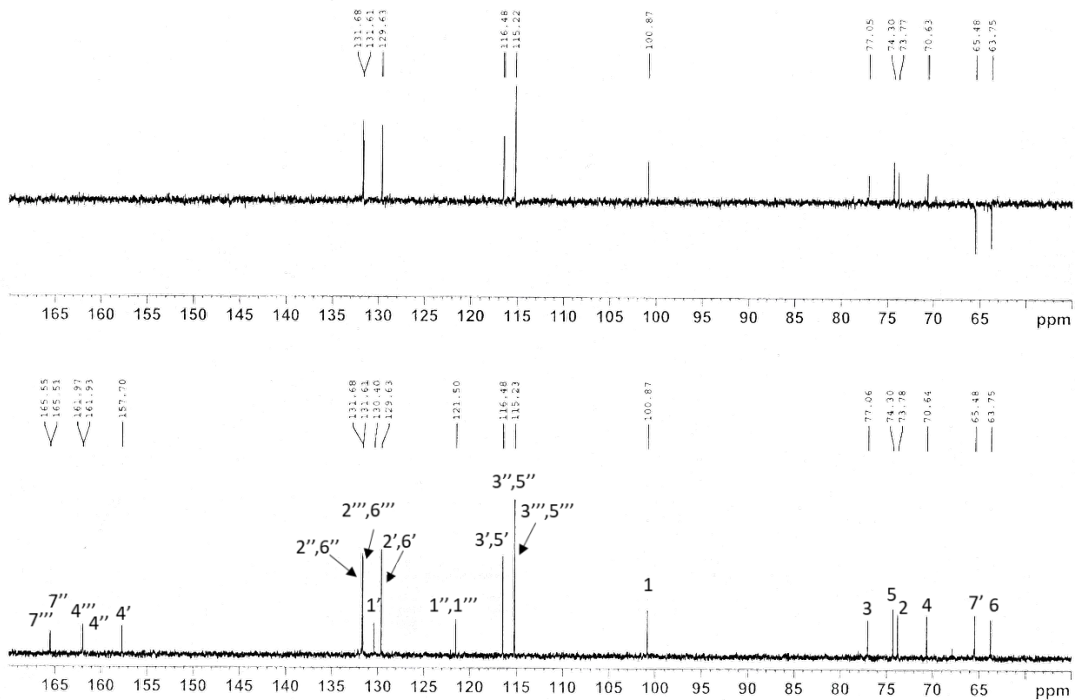


Figure 5S. <sup>13</sup>C NMR and DEPT (acetone-d<sub>6</sub>, 100 MHz) spectrum of compound 1

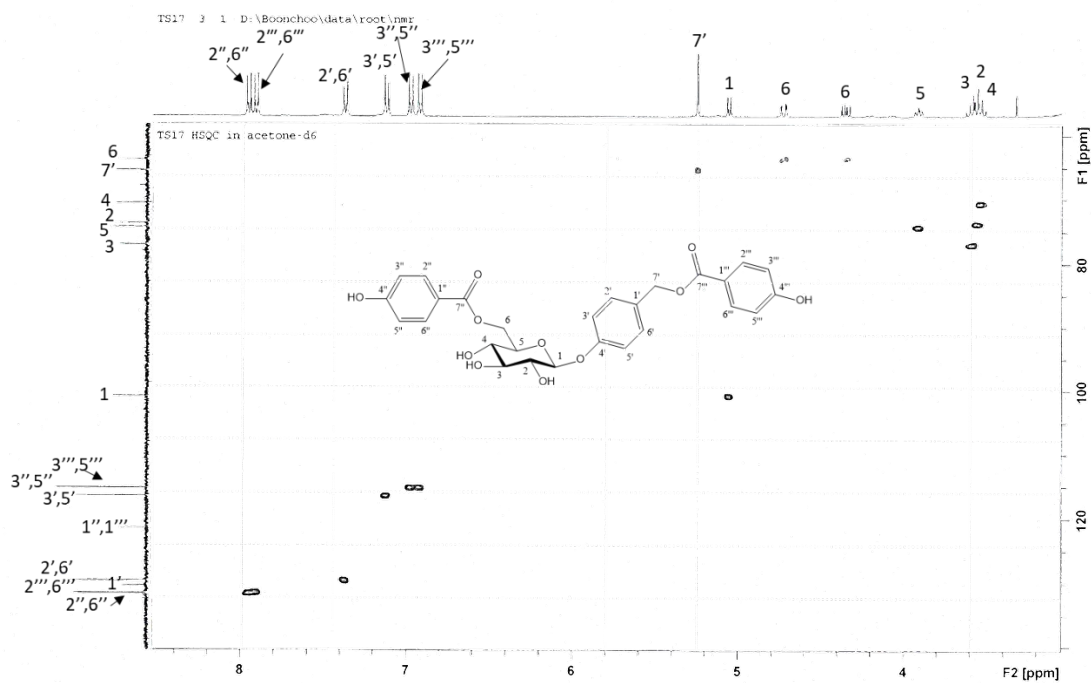


Figure 6S. HSQC (acetone-d<sub>6</sub>, 400/100 MHz) spectrum of compound 1

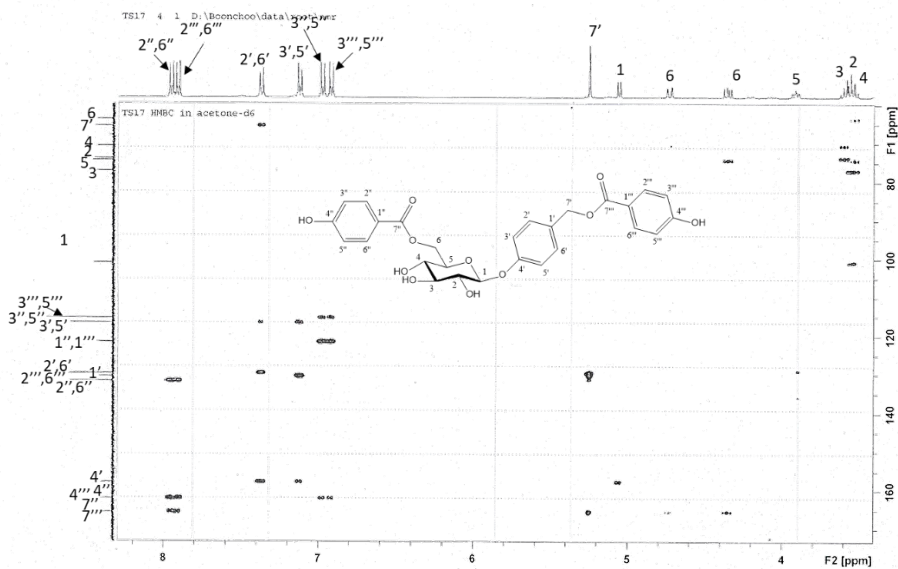


Figure 7S. HMBC (acetone- $d_6$ , 400/100 MHz) spectrum of compound 1

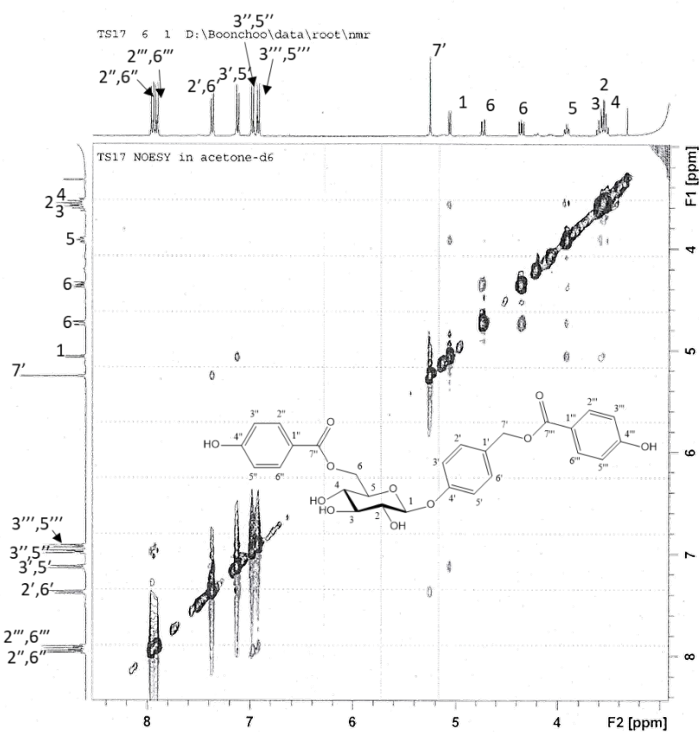
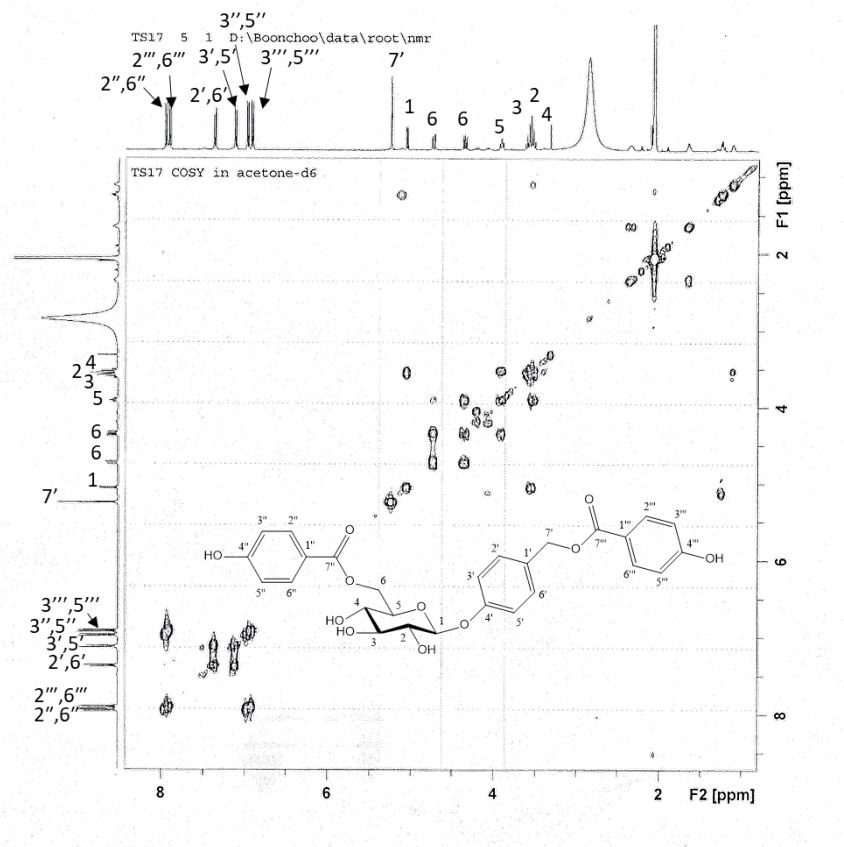
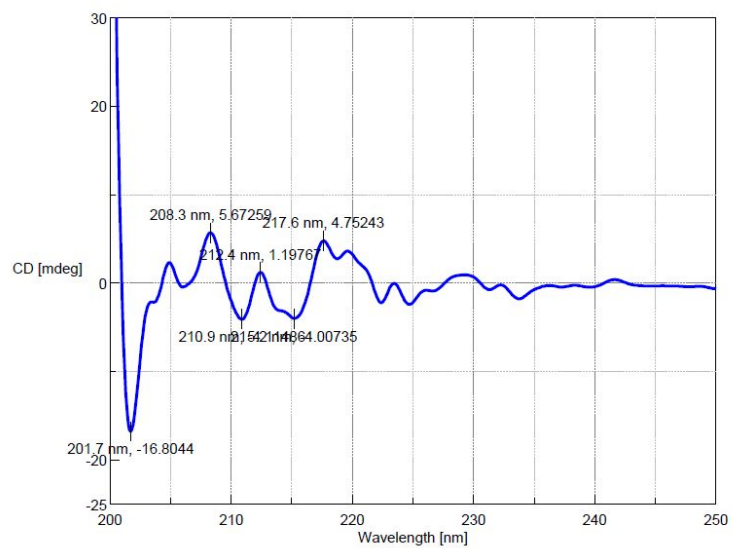


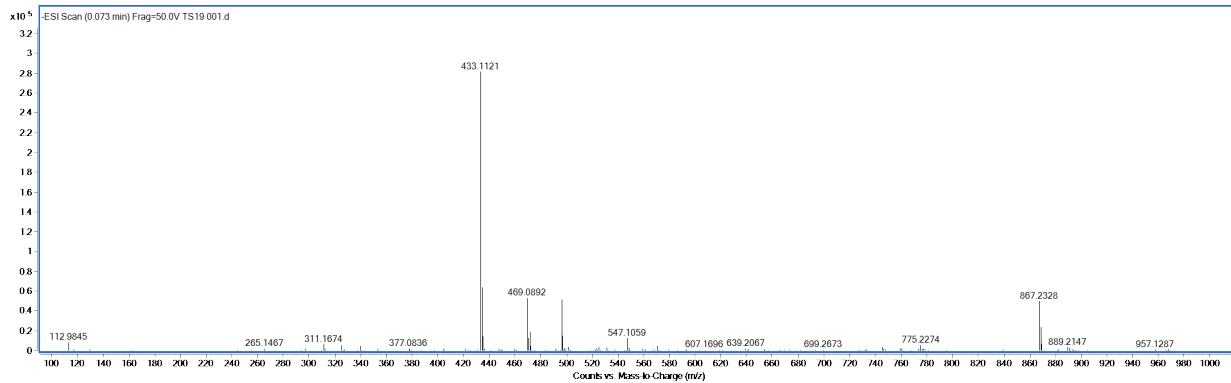
Figure 8S. NOESY (acetone- $d_6$ , 400 MHz) spectrum of compound 1



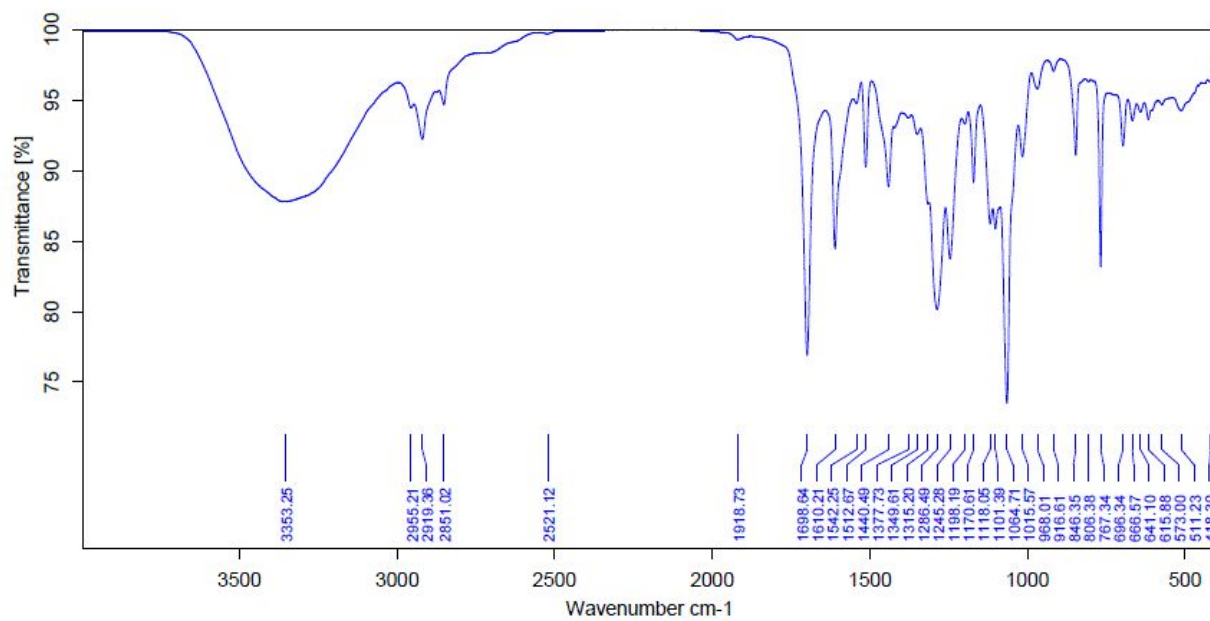
**Figure 9S.** COSY (acetone-d<sub>6</sub>, 400 MHz) spectrum of compound **1**



**Figure 10S.** CD spectrum of compound **1**



**Figure 11S.** HR-ESI-MS spectrum of compound **2**



**Figure 12S.** FT-IR spectrum of compound **2**

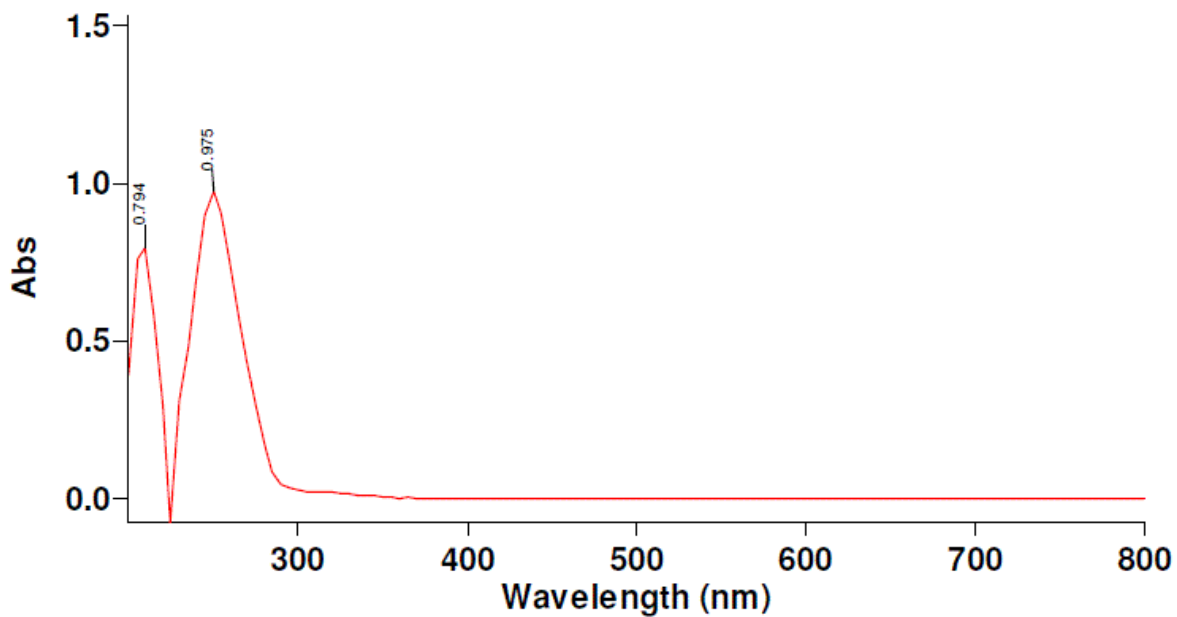


Figure 13S. UV spectrum of compound **2** (0.05 mg) in 3 ml of methanol

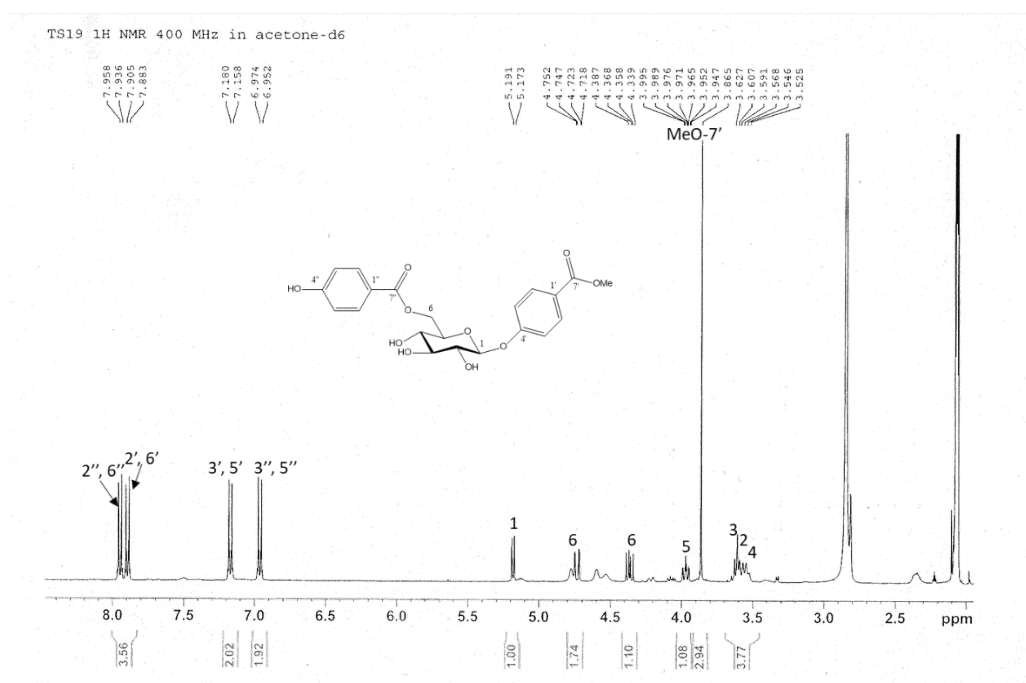
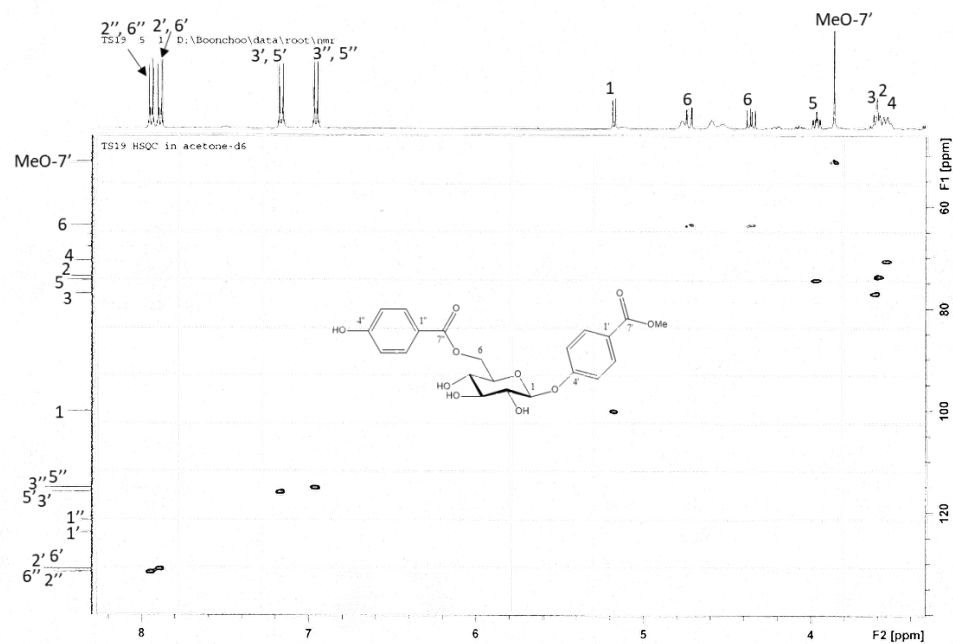
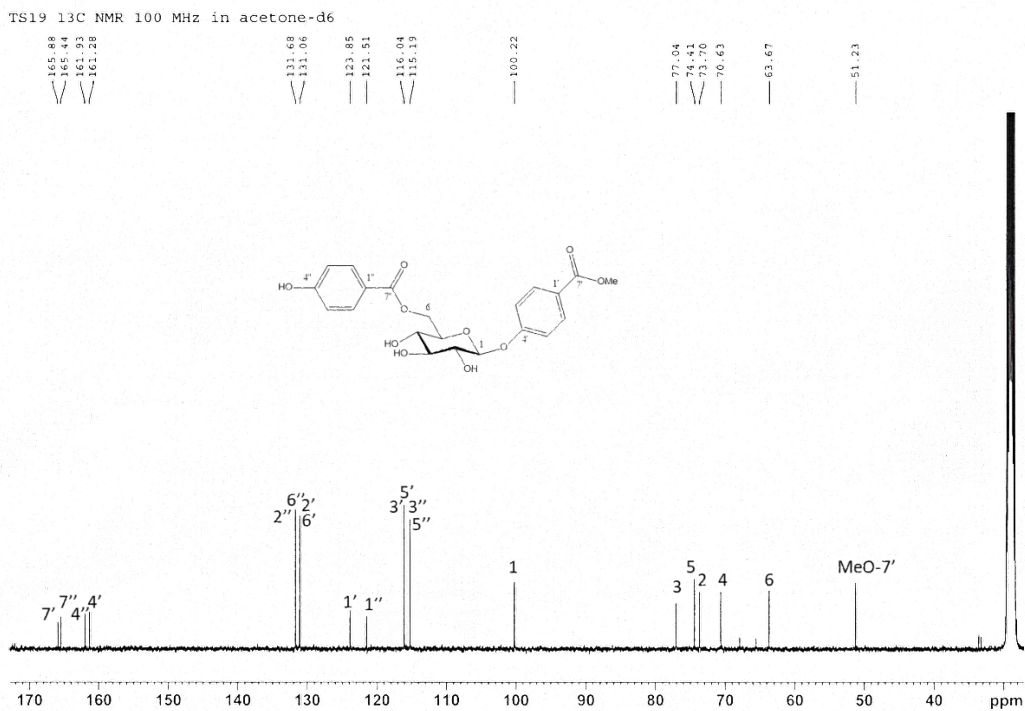


Figure 14S.  $^1\text{H}$  NMR (acetone- $d_6$ , 400 MHz) spectrum of compound **2**





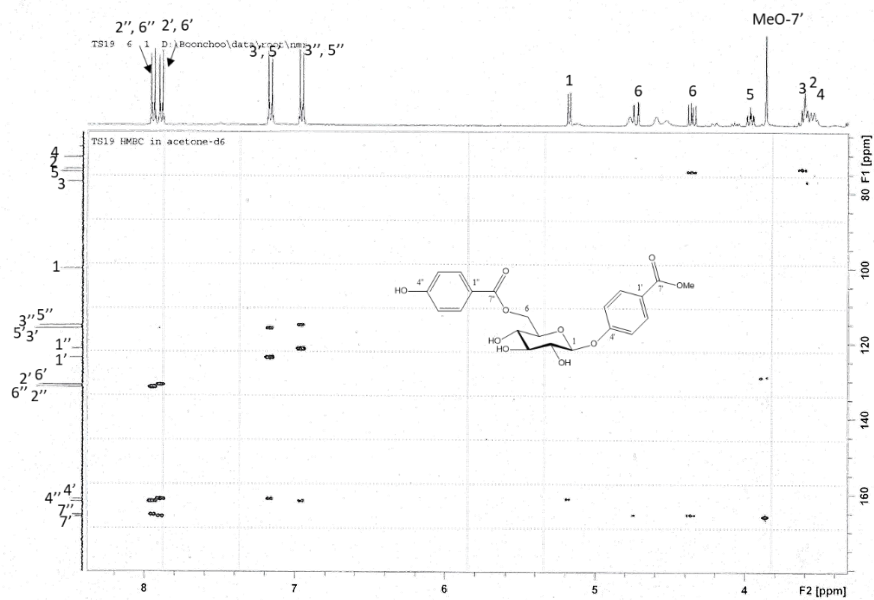


Figure 17S. HMBC (acetone- $d_6$ , 400/100 MHz) spectrum of compound 2

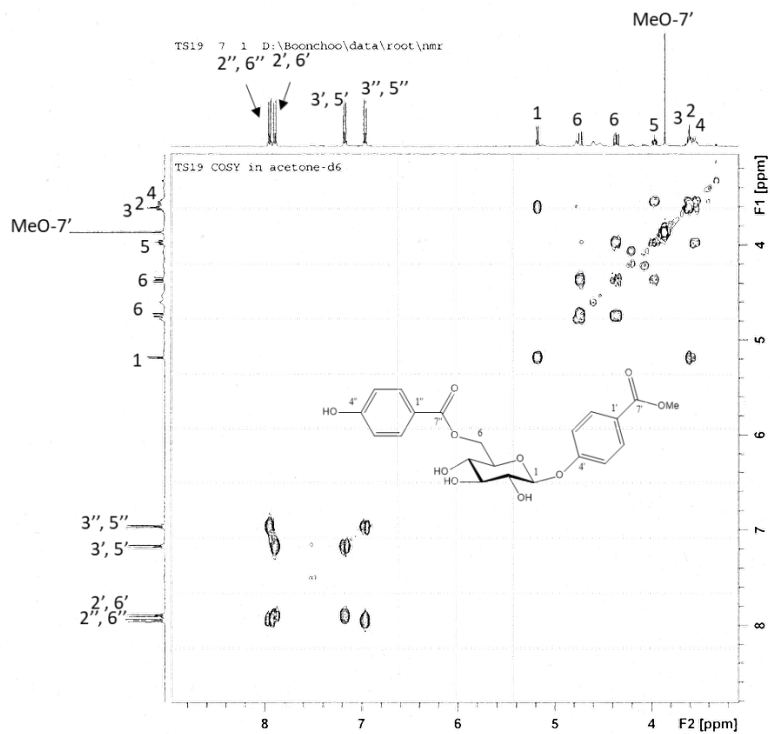
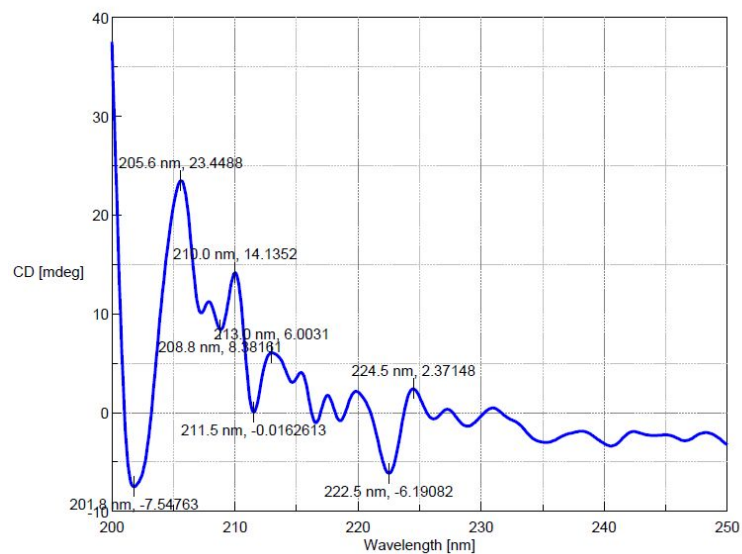
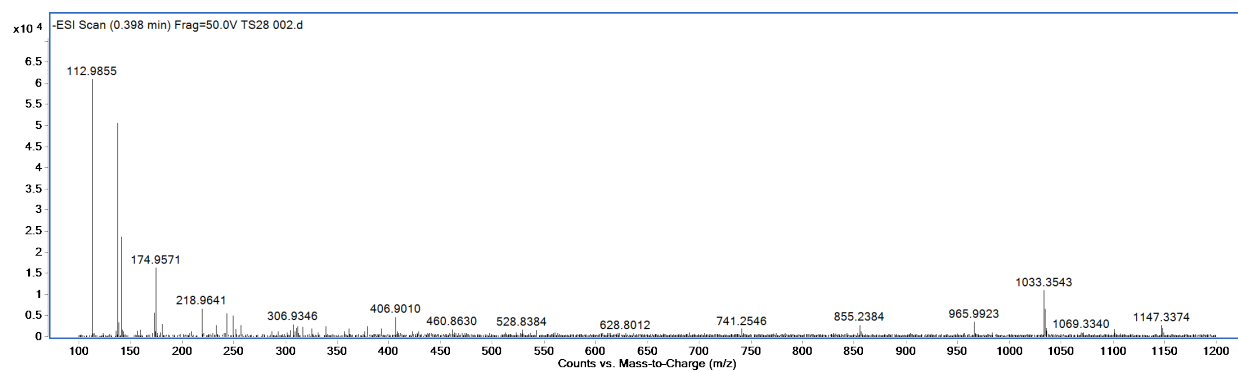


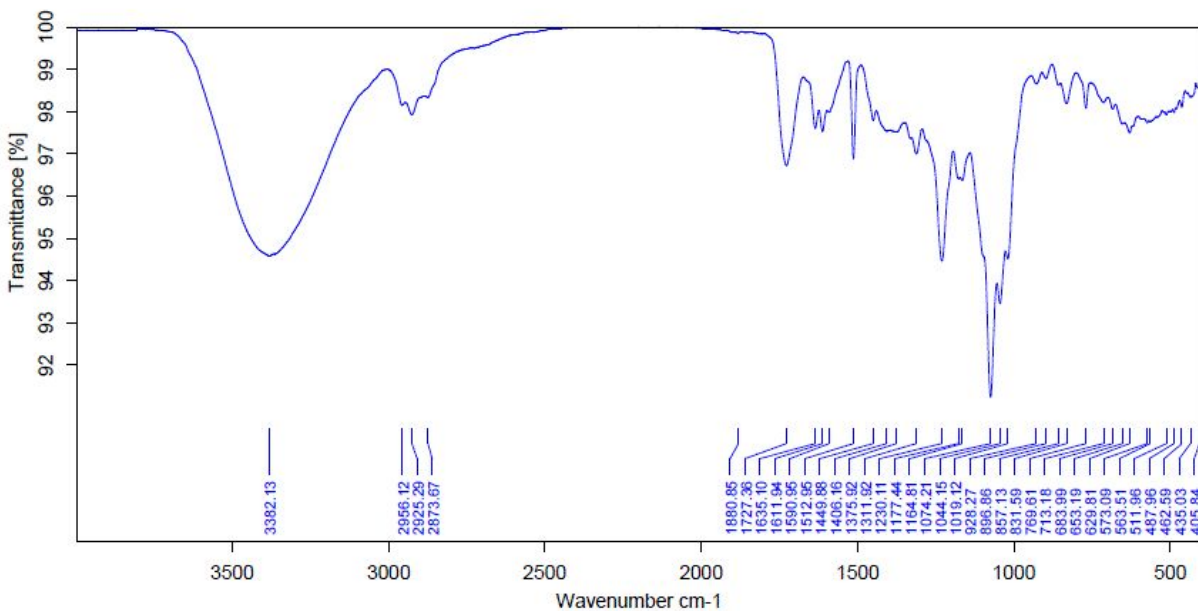
Figure 18S. COSY (acetone- $d_6$ , 400 MHz) spectrum of compound 2



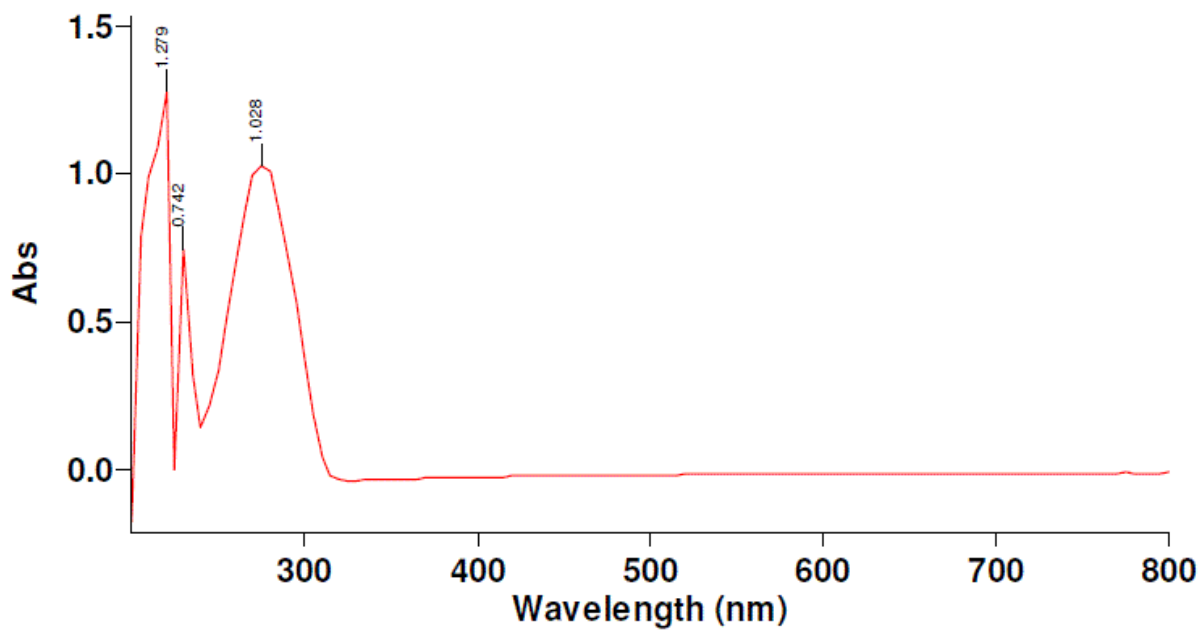
**Figure 19S.** CD spectrum of compound 2



**Figure 20S.** HR-ESI-MS spectrum of compound 3



**Figure 21S.** FT-IR spectrum of compound **3**



**Figure 22S.** UV spectrum of compound **3** (0.2 mg) in 3 ml of methanol

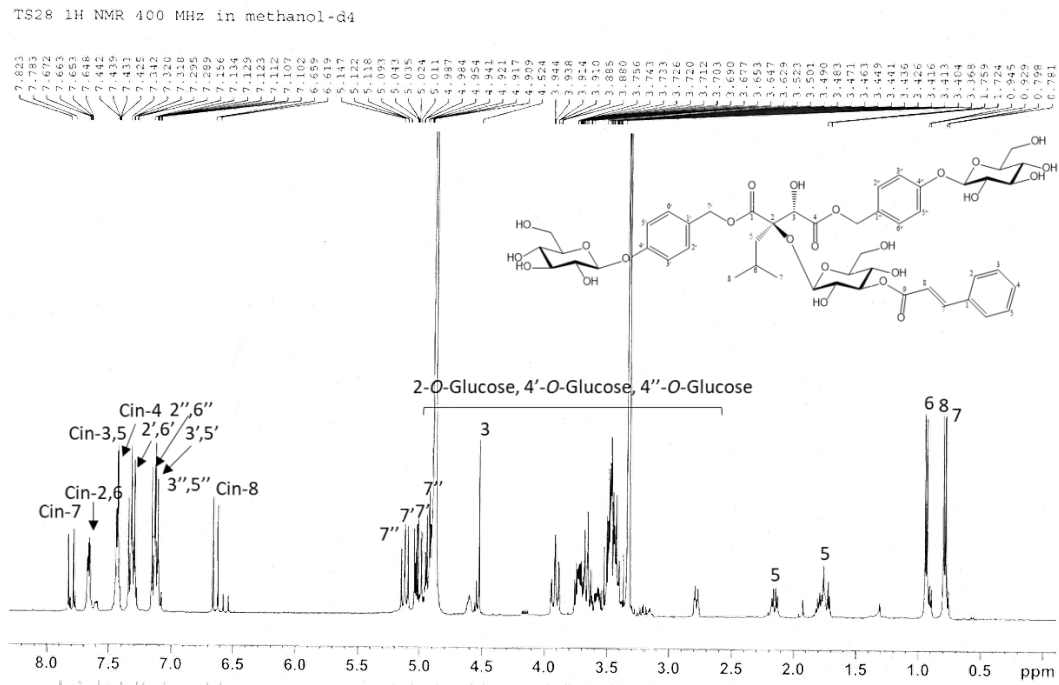


Figure 23S.  $^1\text{H}$  NMR (methanol- $d_4$ , 400 MHz) spectrum of compound 3

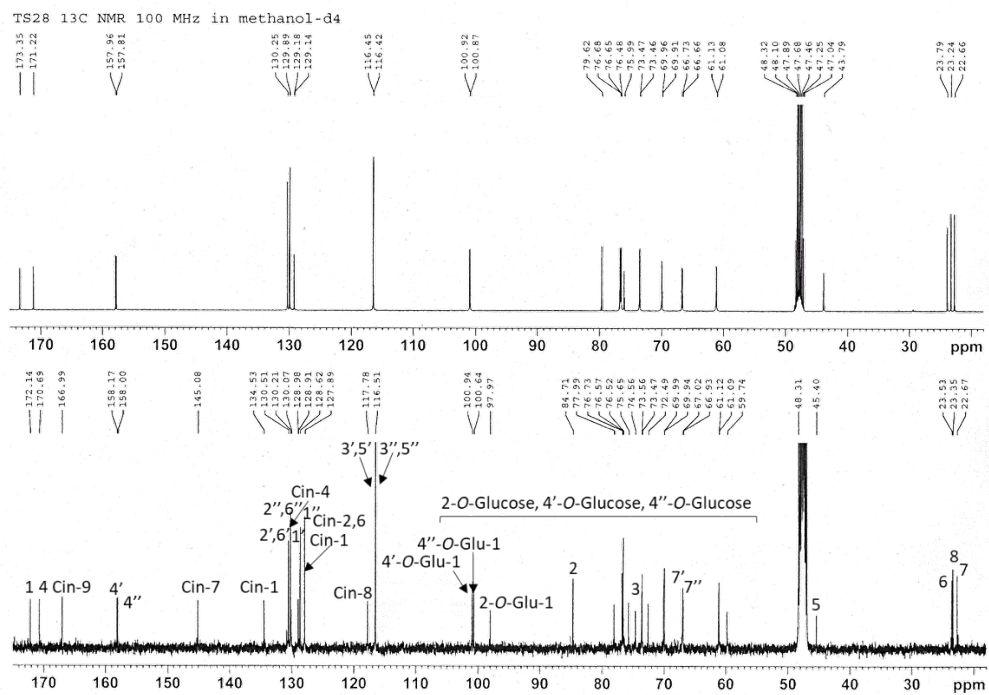
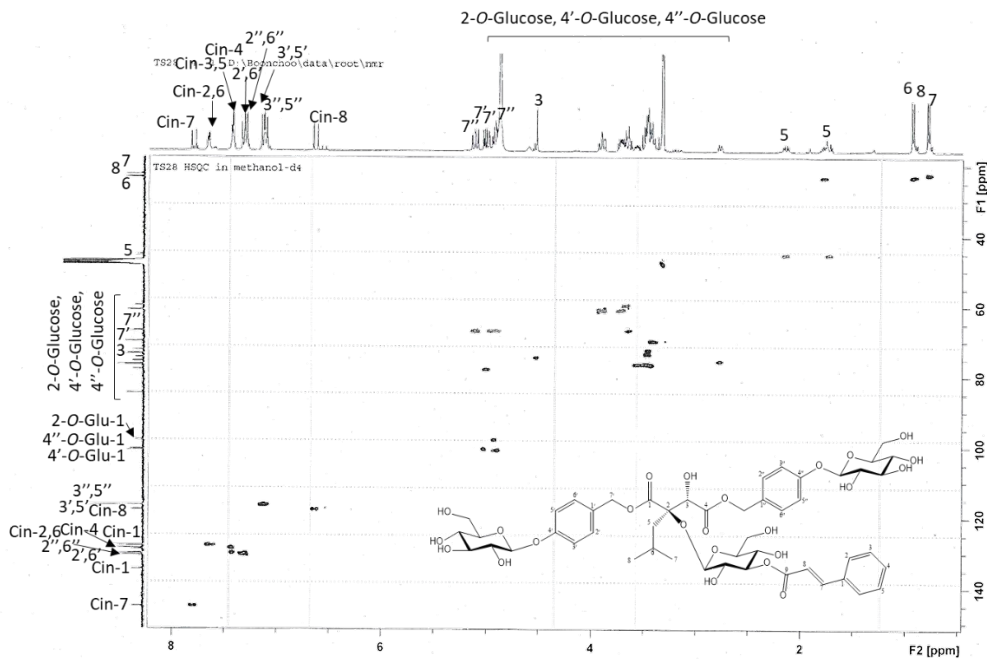
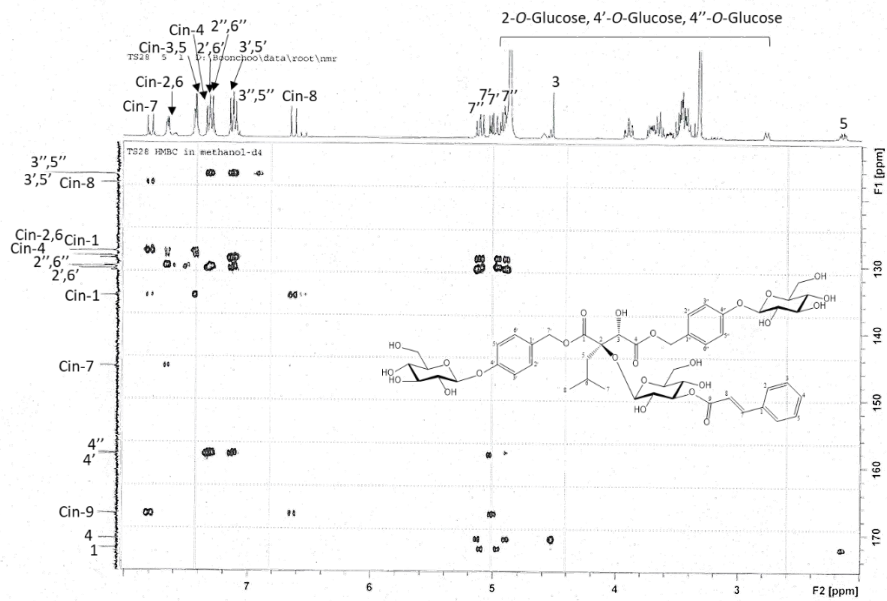


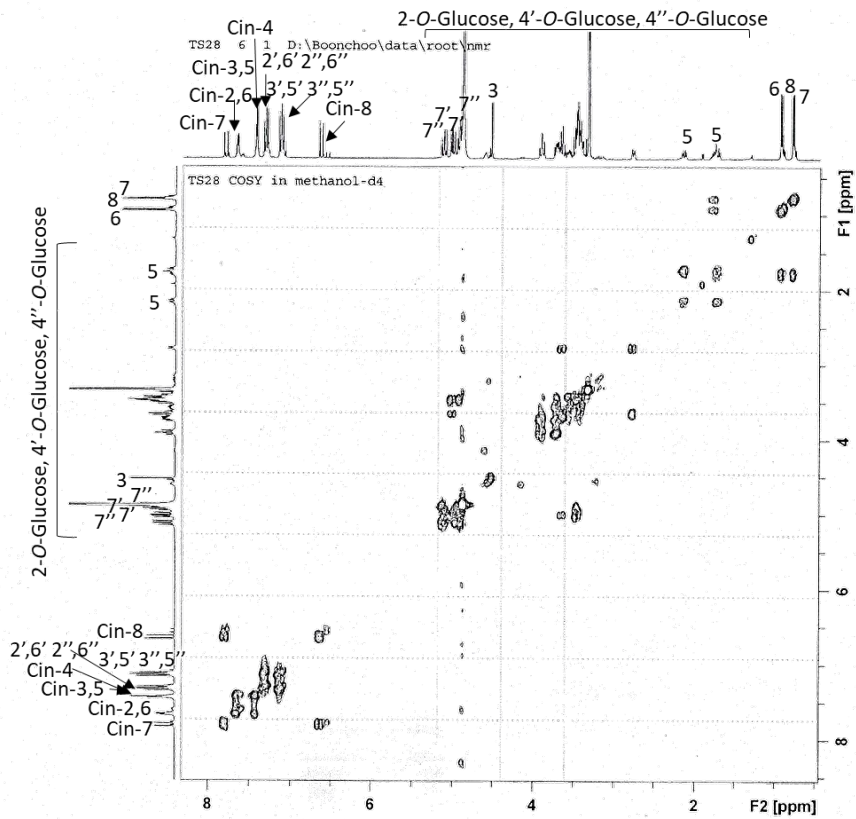
Figure 24S.  $^{13}\text{C}$  NMR and DEPT (methanol- $d_4$ , 100 MHz) spectrum of compound 3



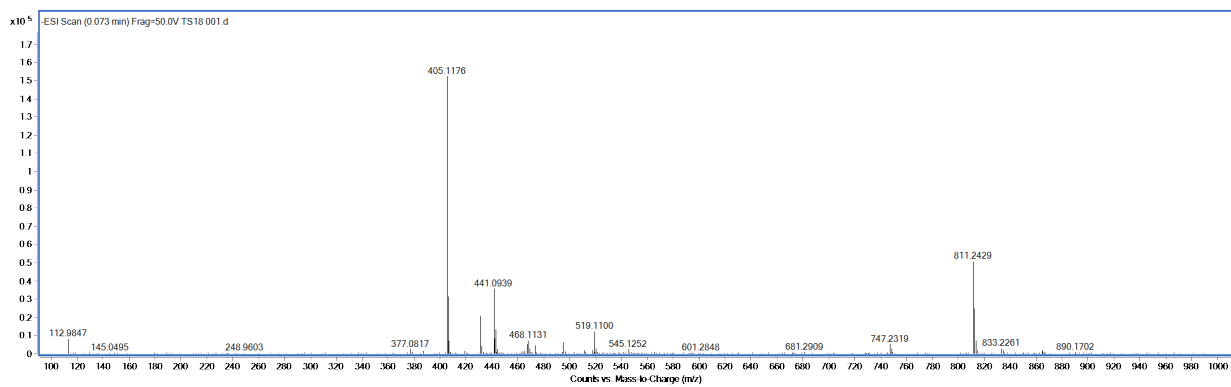
**Figure 25S.** HSQC (methanol- $d_4$ , 400/100 MHz) spectrum of compound **3**



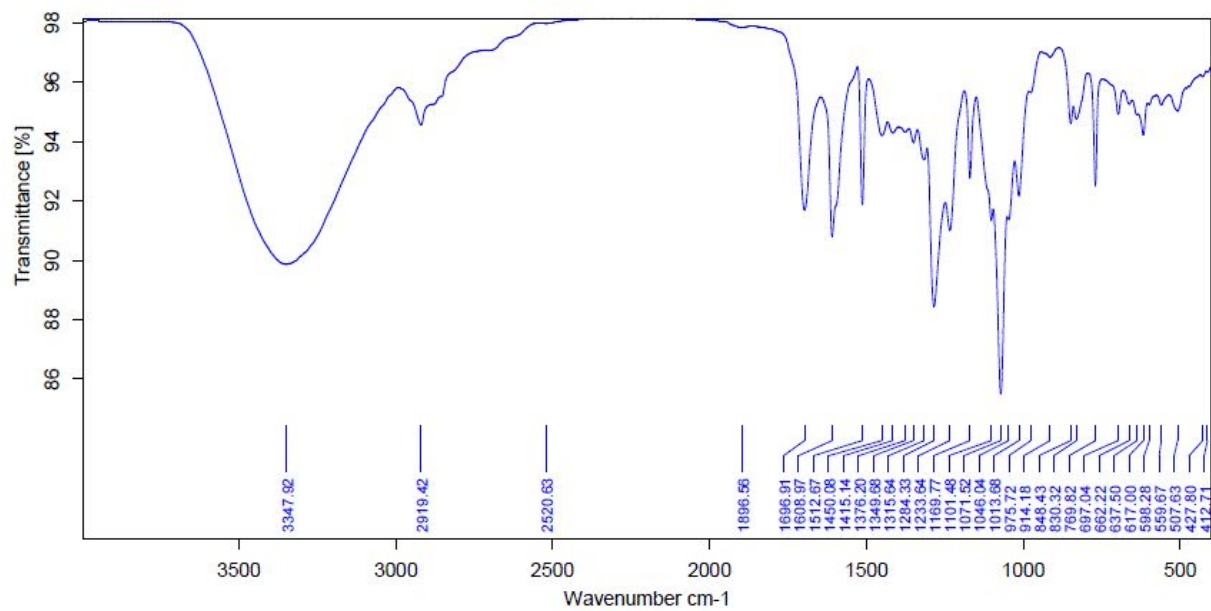
**Figure 26S.** HMBC (methanol- $d_4$ , 400/100 MHz) spectrum of compound **3**



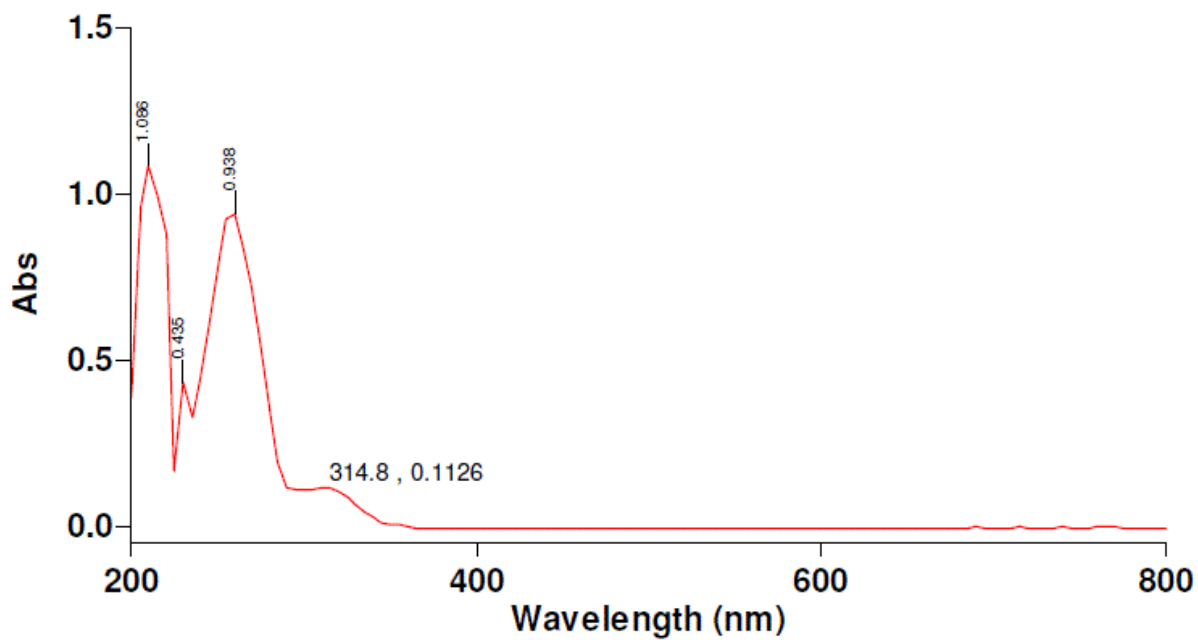
**Figure 27S.** COSY (methanol- $d_4$ , 400 MHz) spectrum of compound 3



**Figure 28S.** ESI-MS spectrum of compound 4



**Figure 29S.** FT-IR spectrum of compound 4



**Figure 30S.** UV spectrum of compound 4 (0.1 mg) in 3 ml of methanol

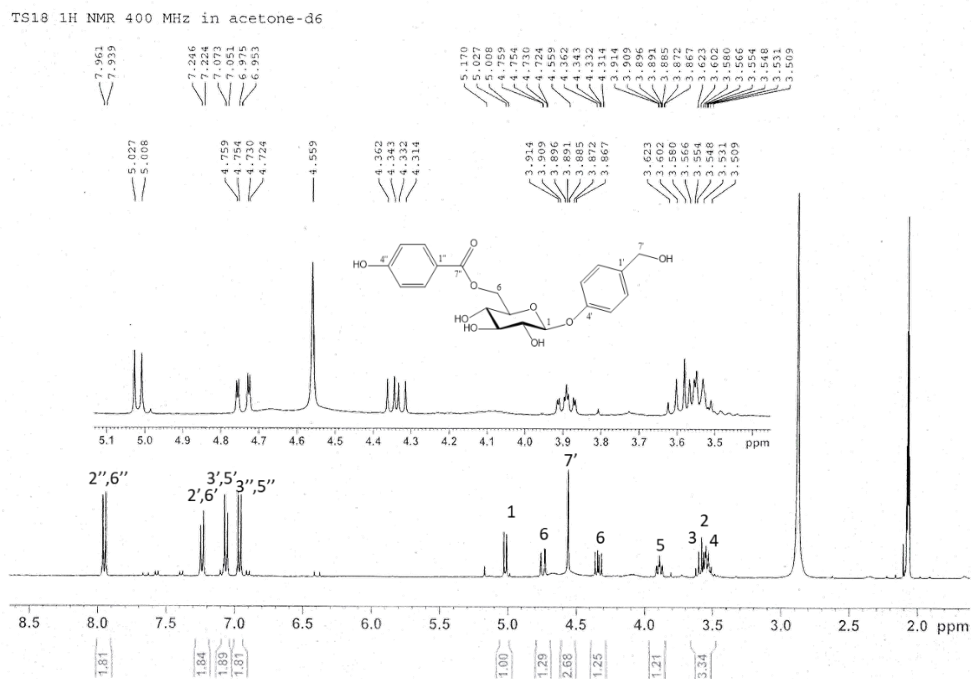


Figure 31S. <sup>1</sup>H NMR (acetone-*d*<sub>6</sub>, 400 MHz) spectrum of compound 4

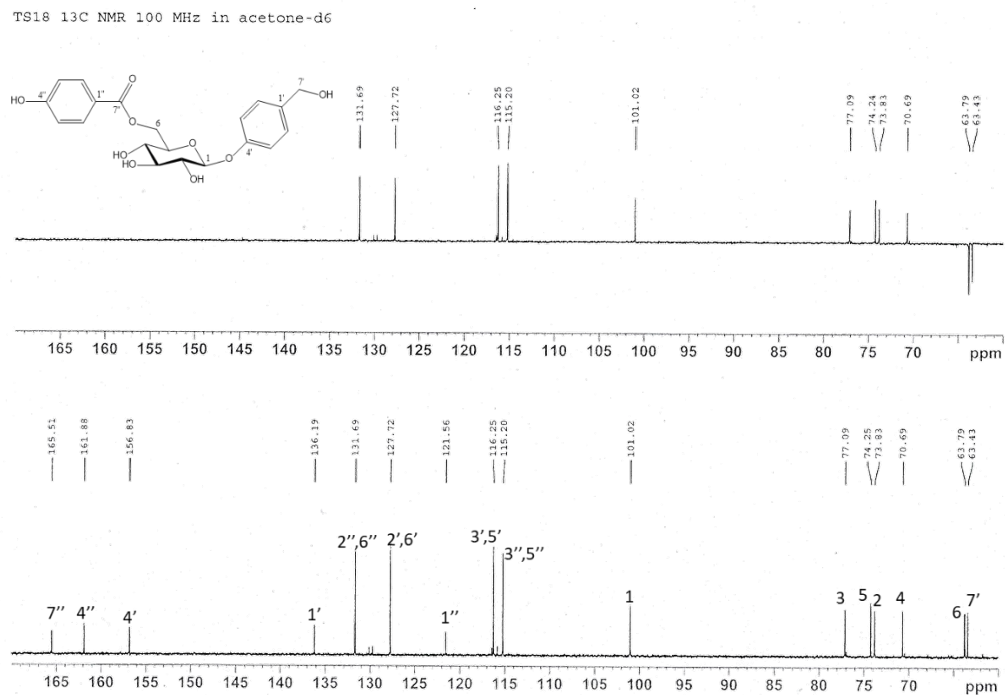
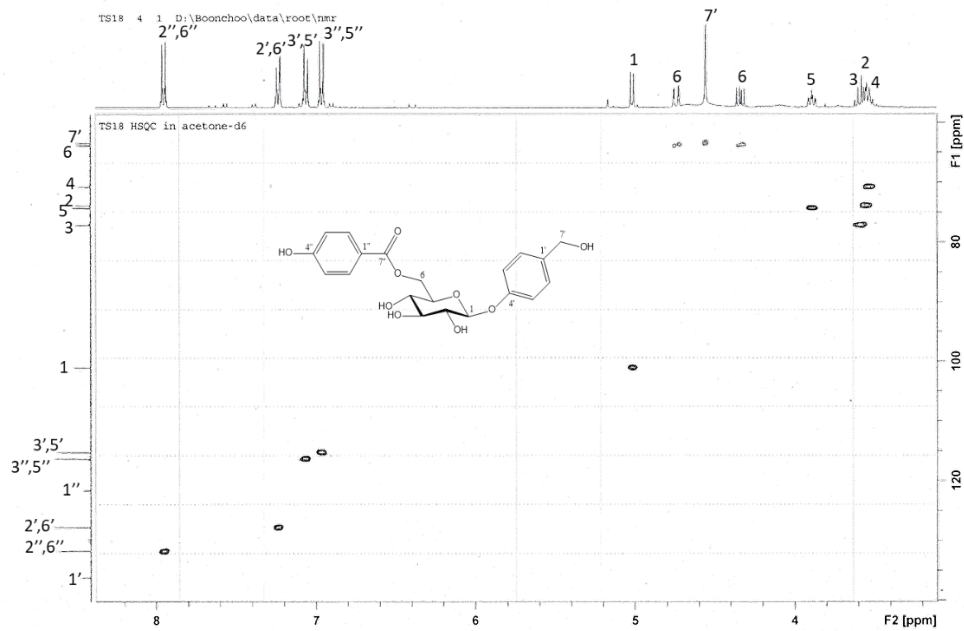
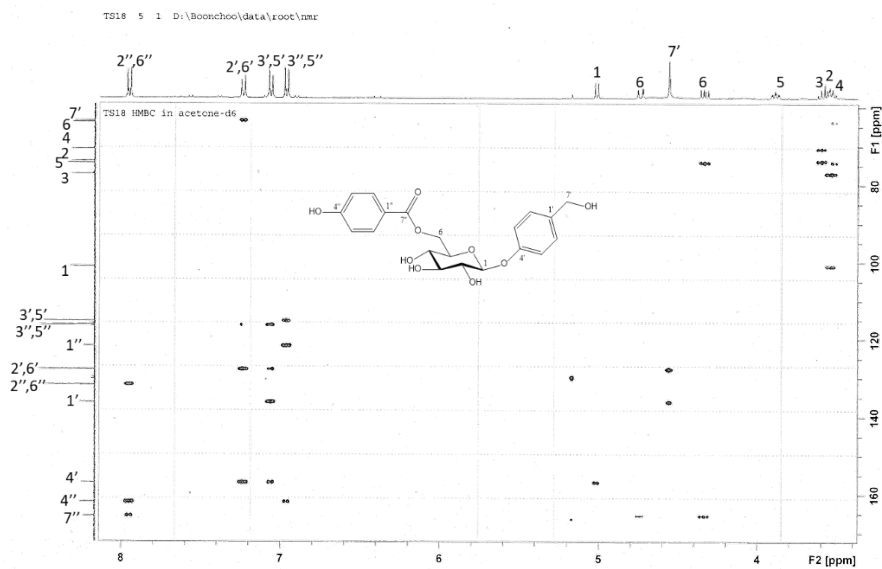


Figure 32S. <sup>13</sup>C NMR and DEPT (acetone-*d*<sub>6</sub>, 100 MHz) spectrum of compound 4

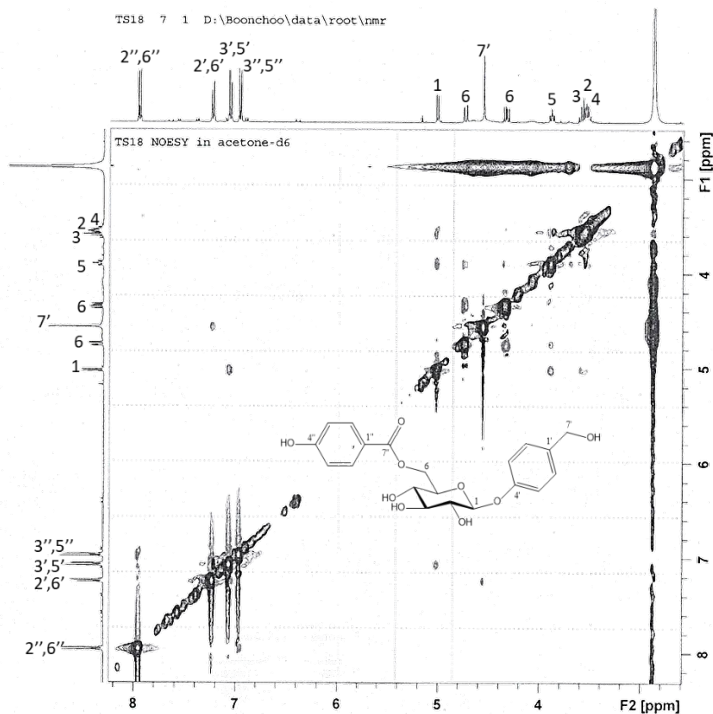




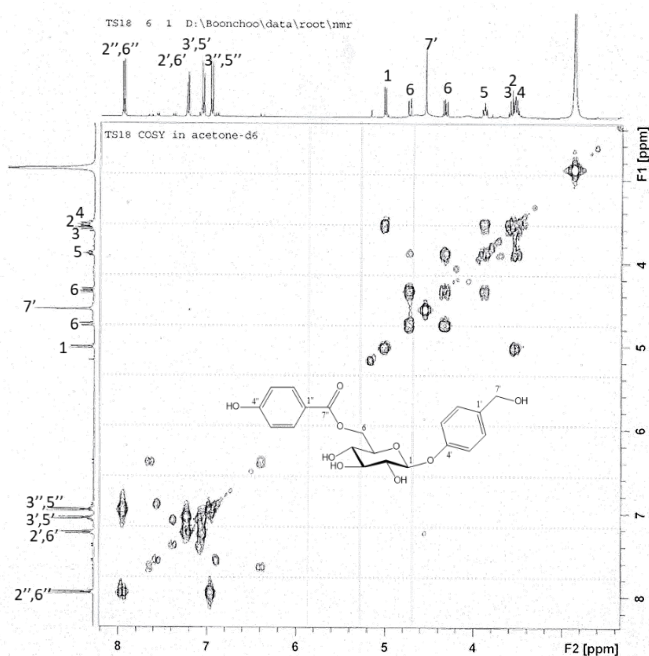
**Figure 33S.** HSQC (acetone- $d_6$ , 400/100 MHz) spectrum of compound **4**



**Figure 34S.** HMBC (acetone- $d_6$ , 400/100 MHz) spectrum of compound **4**



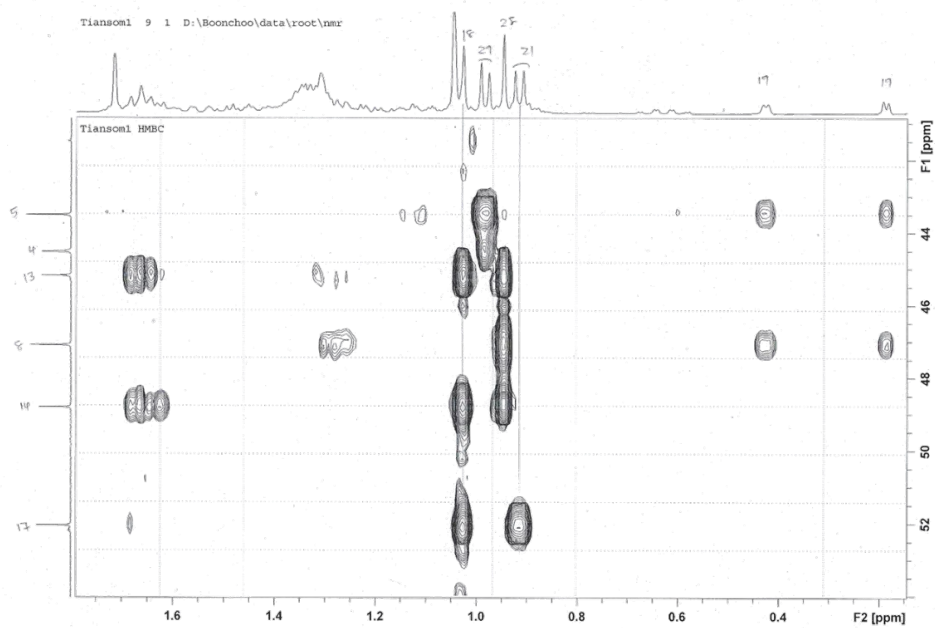
**Figure 35S.** NOESY (acetone- $d_6$ , 400 MHz) spectrum of compound **4**



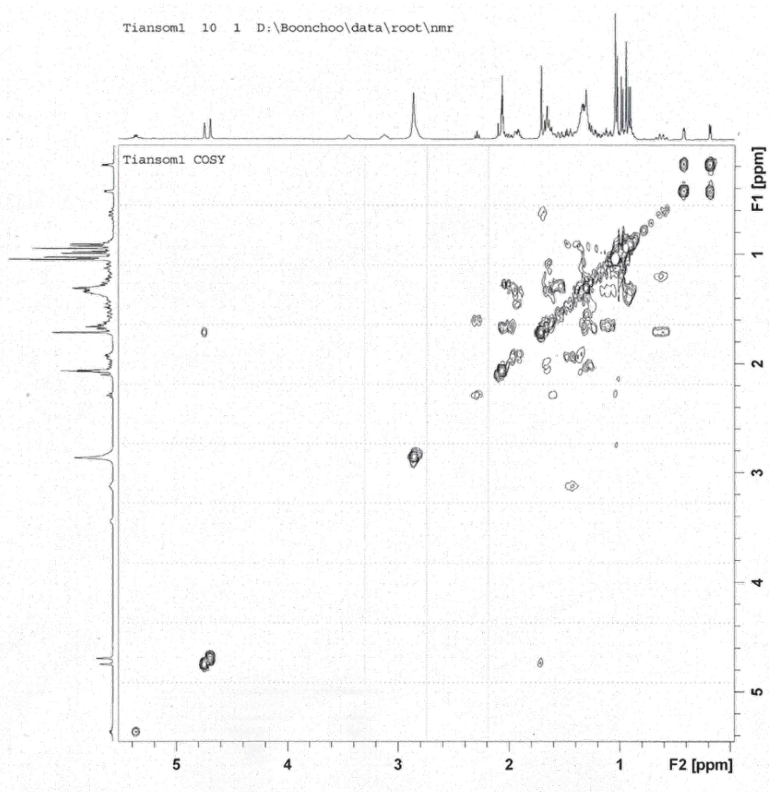
**Figure 36S.** COSY (acetone- $d_6$ , 400 MHz) spectrum of compound **4**







**Figure 41S.** HMBC (acetone- $d_6$ , 400/100 MHz) spectrum of compound **5**



**Figure 42S.** COSY (acetone- $d_6$ , 400 MHz) spectrum of compound **5**

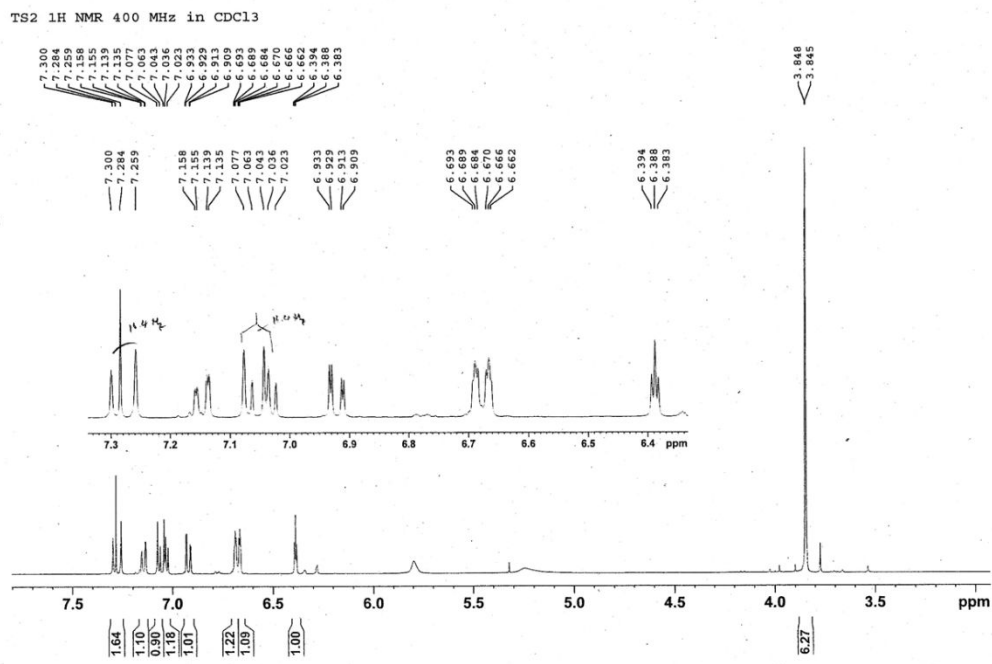


Figure 43S.  $^1\text{H}$  NMR (acetone- $d_6$ , 400 MHz) spectrum of compound 6

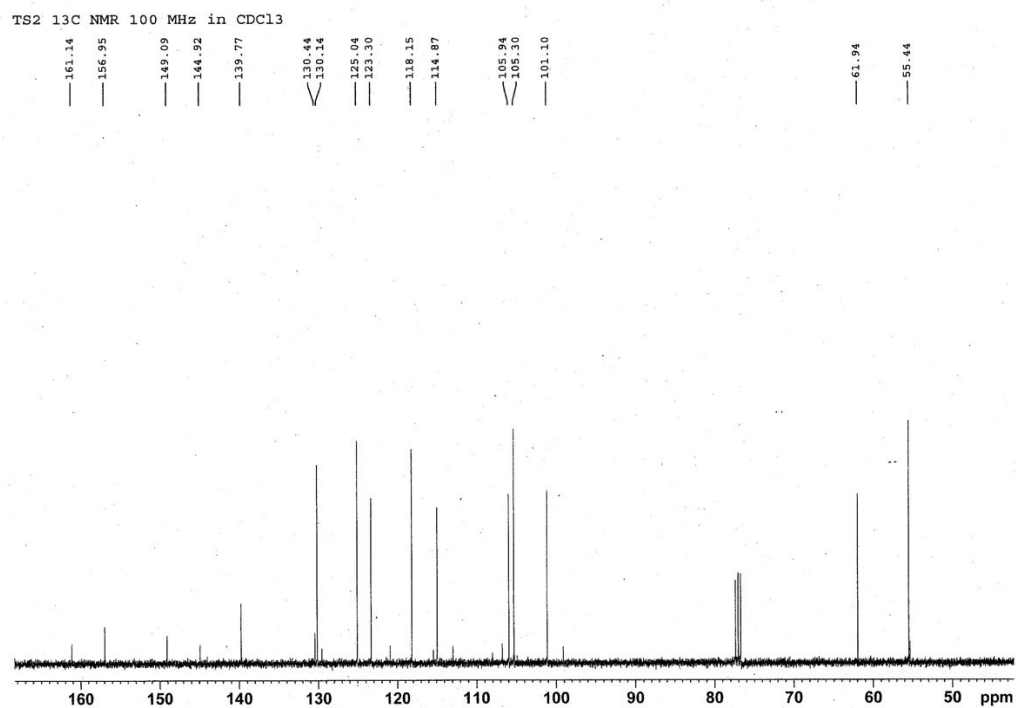


Figure 44S.  $^{13}\text{C}$  NMR (acetone- $d_6$ , 100 MHz) spectrum of compound 6

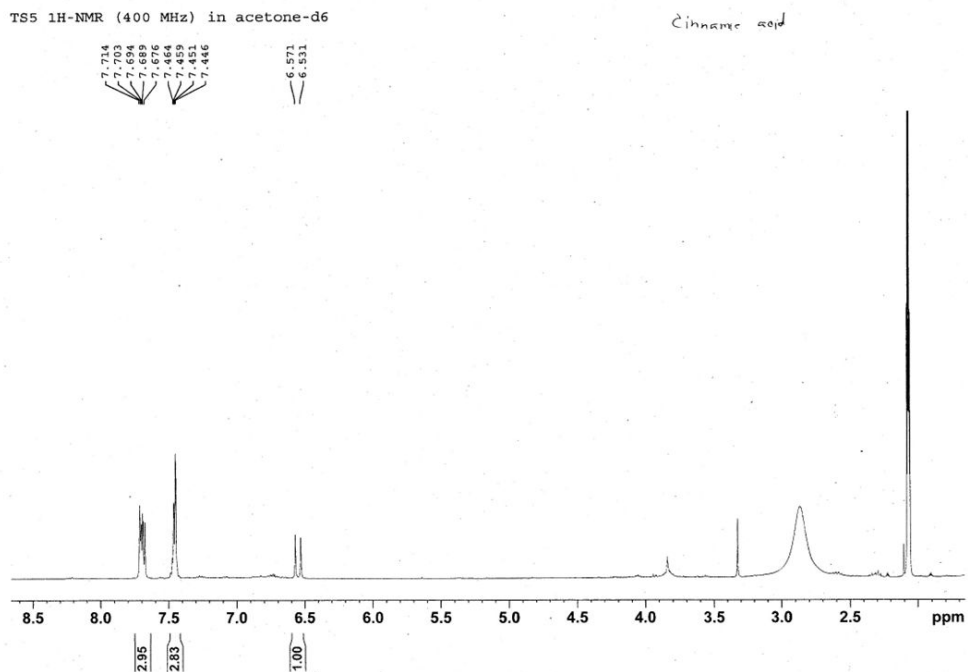


Figure 45S.  $^1\text{H}$  NMR (acetone- $d_6$ , 400 MHz) spectrum of compound 7

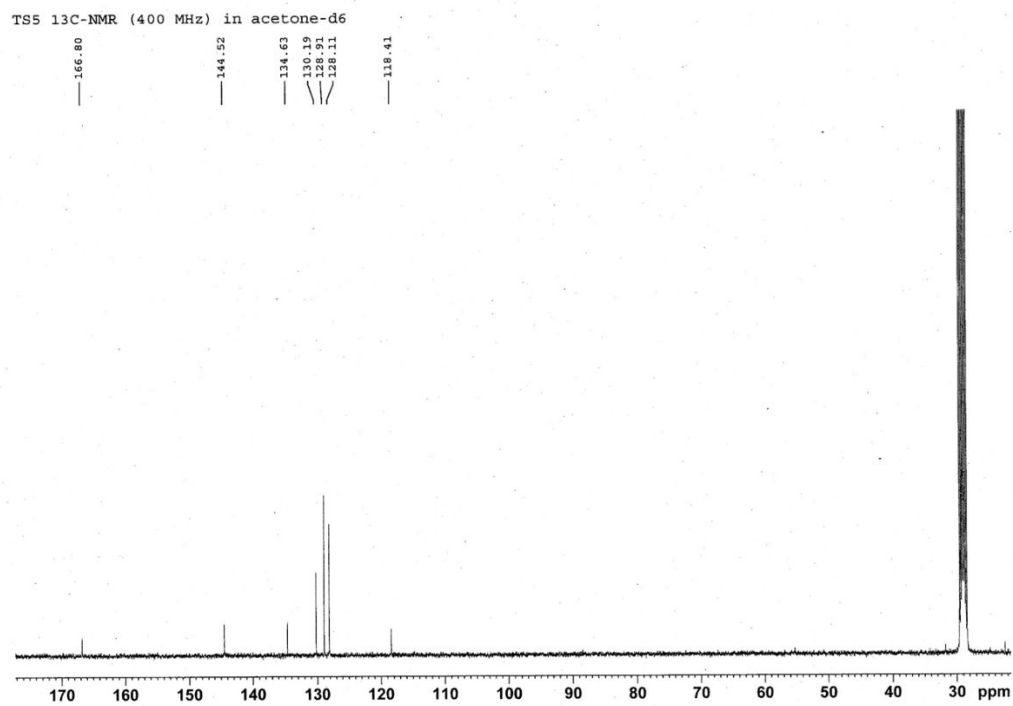


Figure 46S.  $^{13}\text{C}$  NMR (acetone- $d_6$ , 100 MHz) spectrum of compound 7



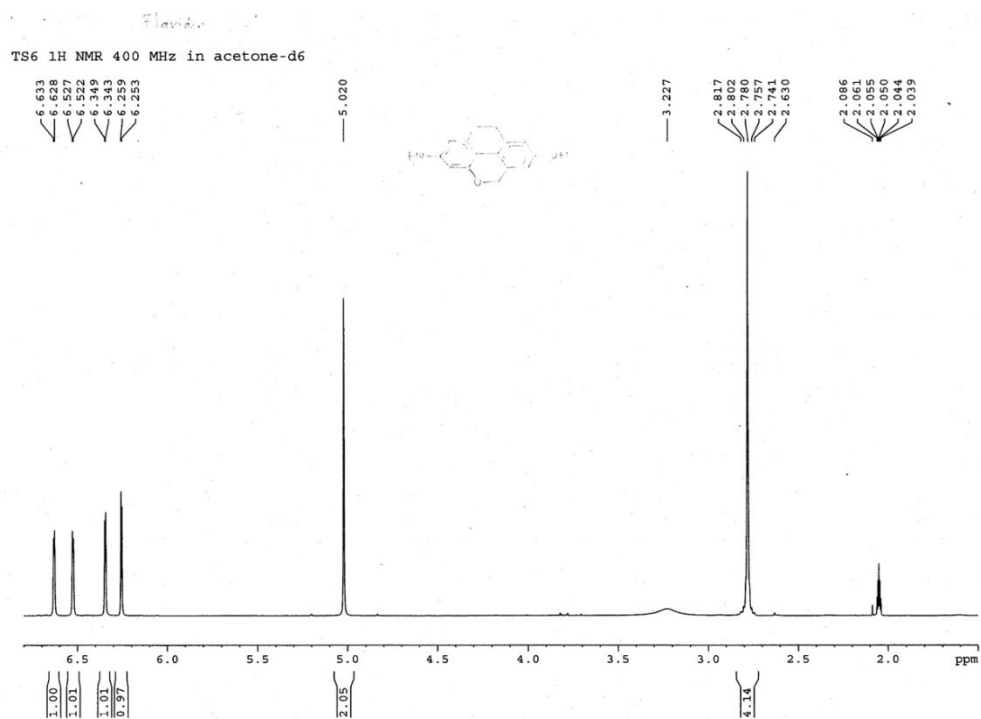


Figure 47S. <sup>1</sup>H NMR (acetone-*d*<sub>6</sub>, 400 MHz) spectrum of compound 8

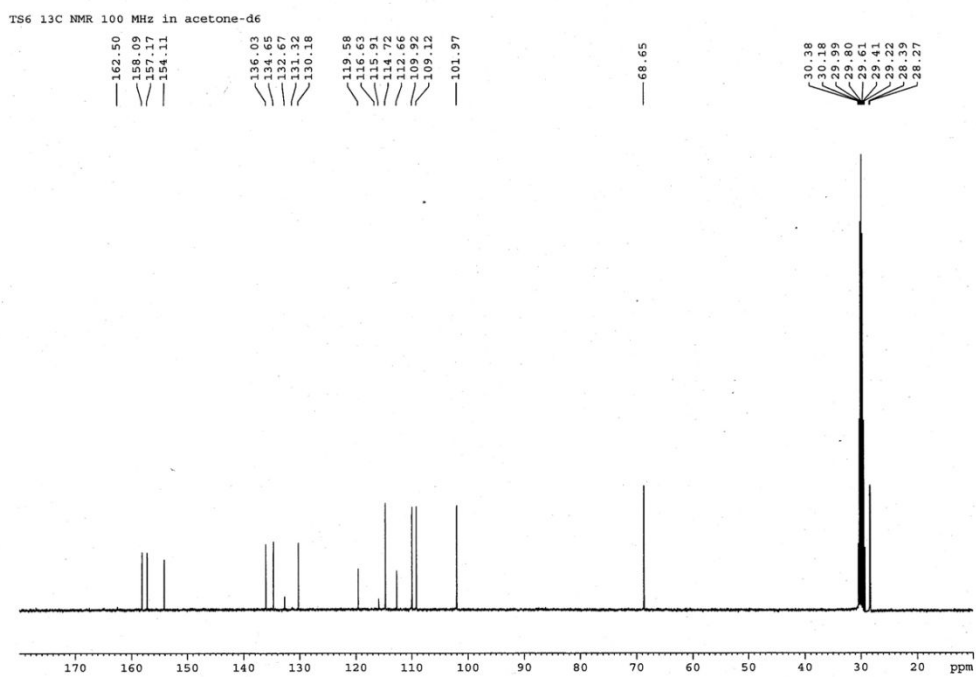


Figure 48S. <sup>13</sup>C NMR (acetone-*d*<sub>6</sub>, 100 MHz) spectrum of compound 8



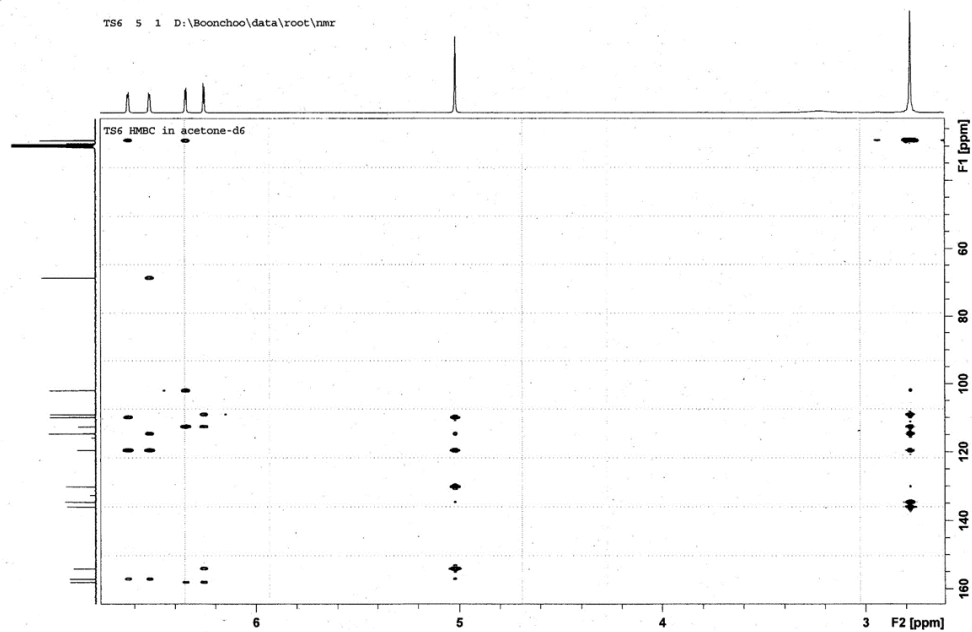


Figure 49S. HMBC (acetone- $d_6$ , 400/100 MHz) spectrum of compound 8

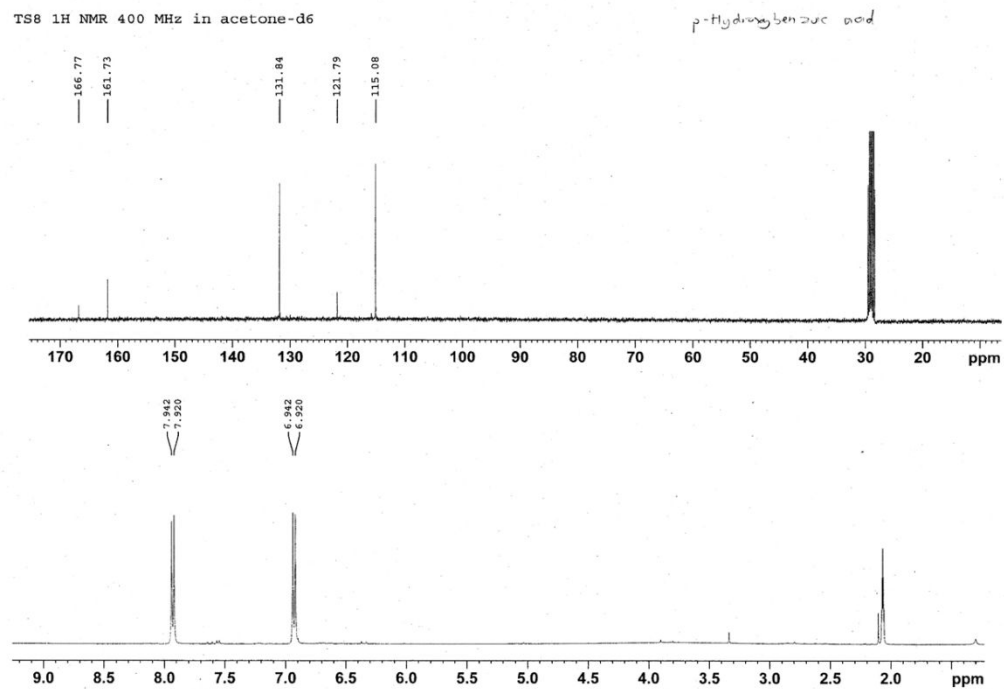
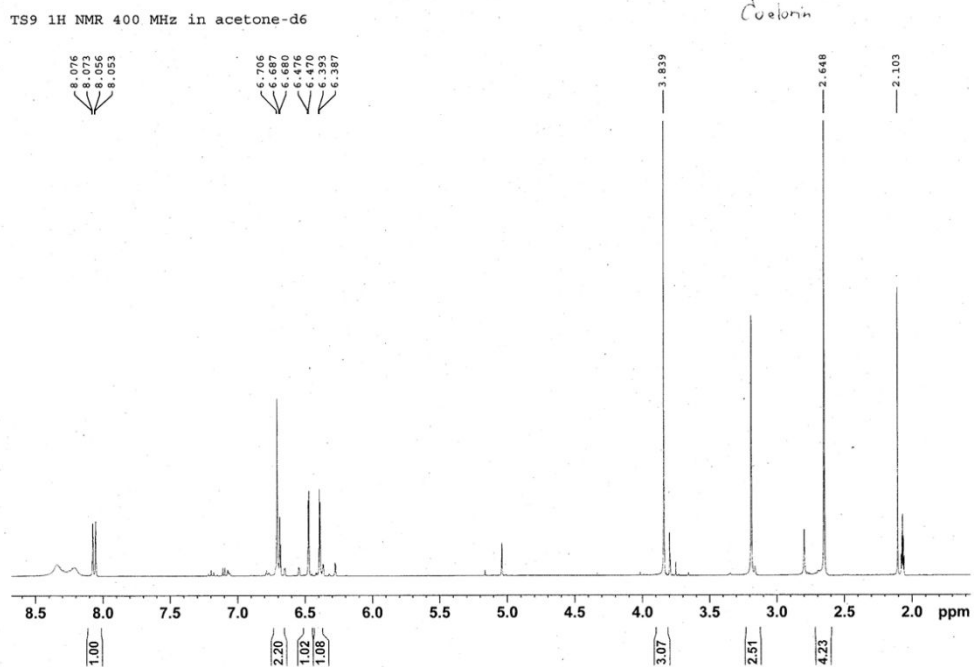
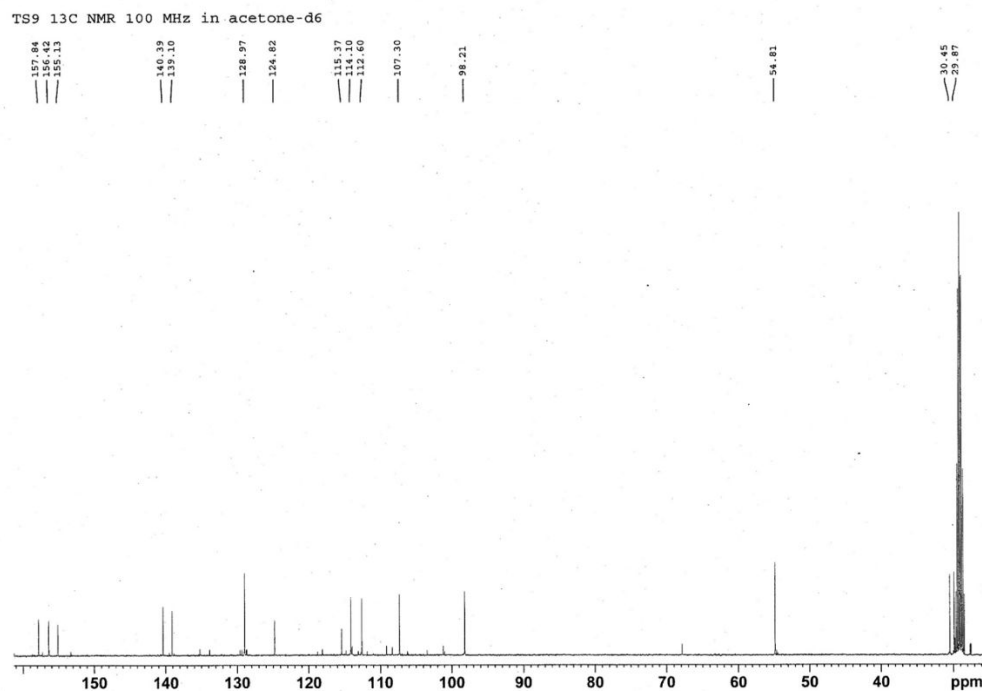


Figure 50S.  $^1\text{H}$  and  $^{13}\text{C}$  NMR (acetone- $d_6$ , 400/100 MHz) spectrum of compound 9



**Figure 51S.** <sup>1</sup>H NMR (acetone-d<sub>6</sub>, 400 MHz) spectrum of compound **10**



**Figure 52S.** <sup>13</sup>C NMR (acetone-d<sub>6</sub>, 100 MHz) spectrum of compound **10**

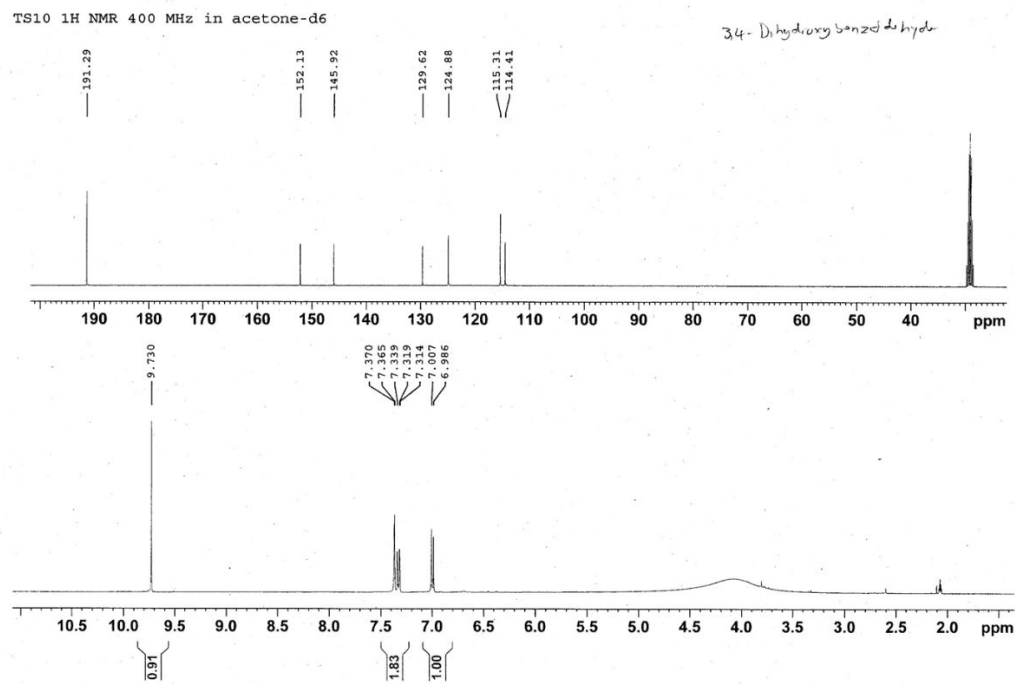


Figure 53S.  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR (acetone- $d_6$ , 400/100 MHz) spectrum of compound **11**

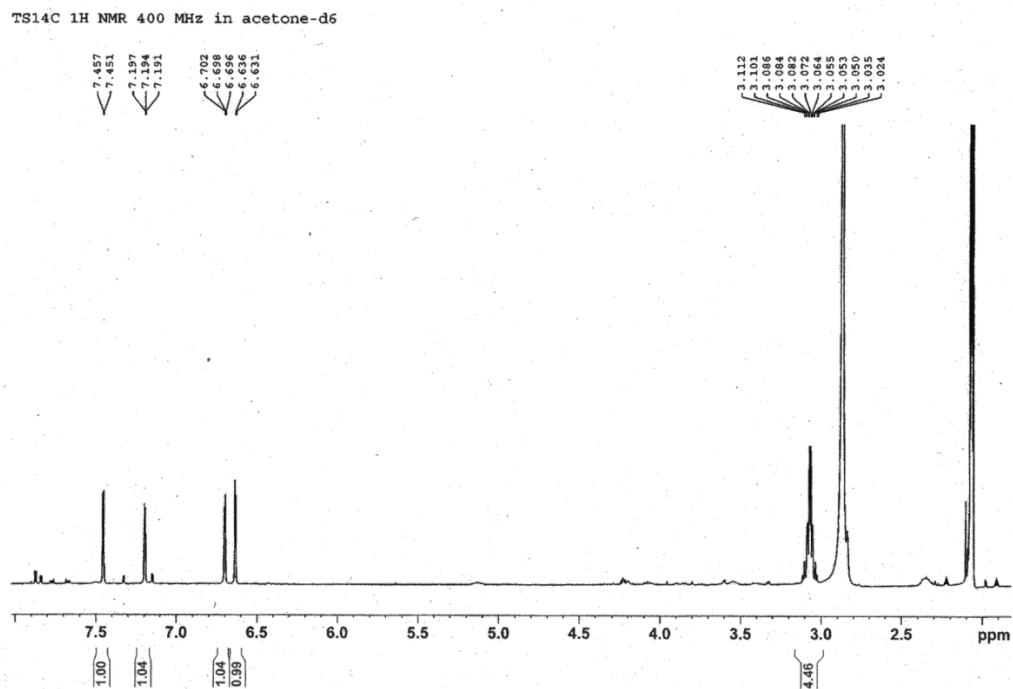
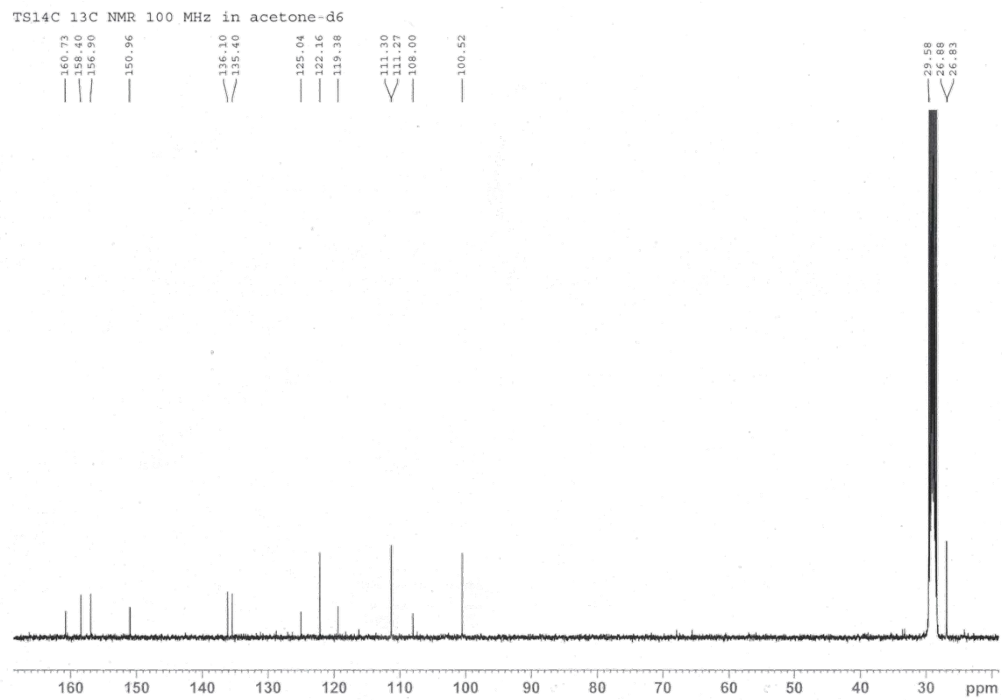
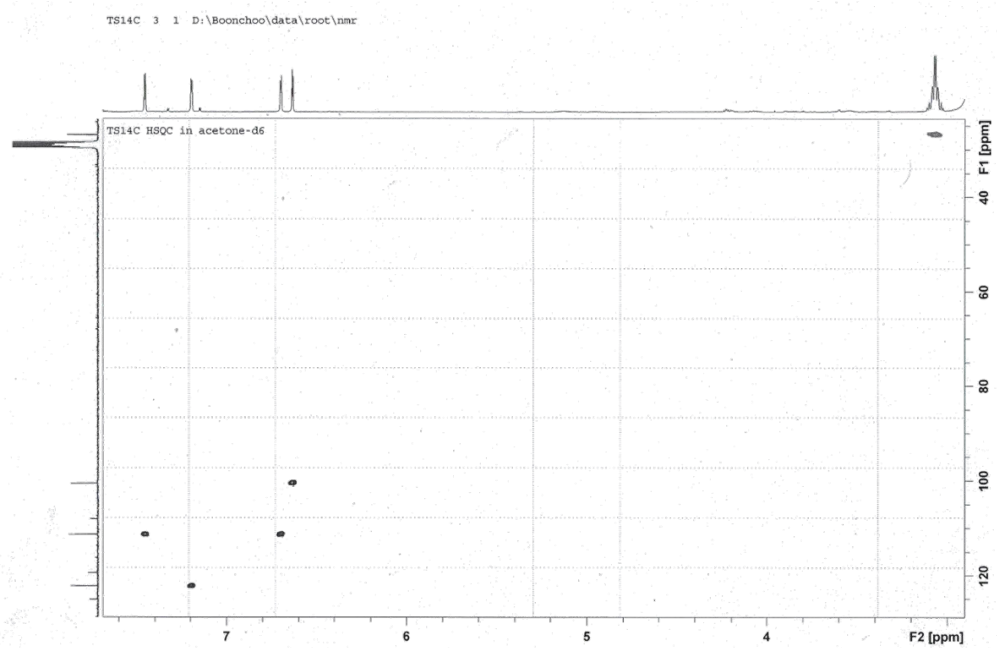


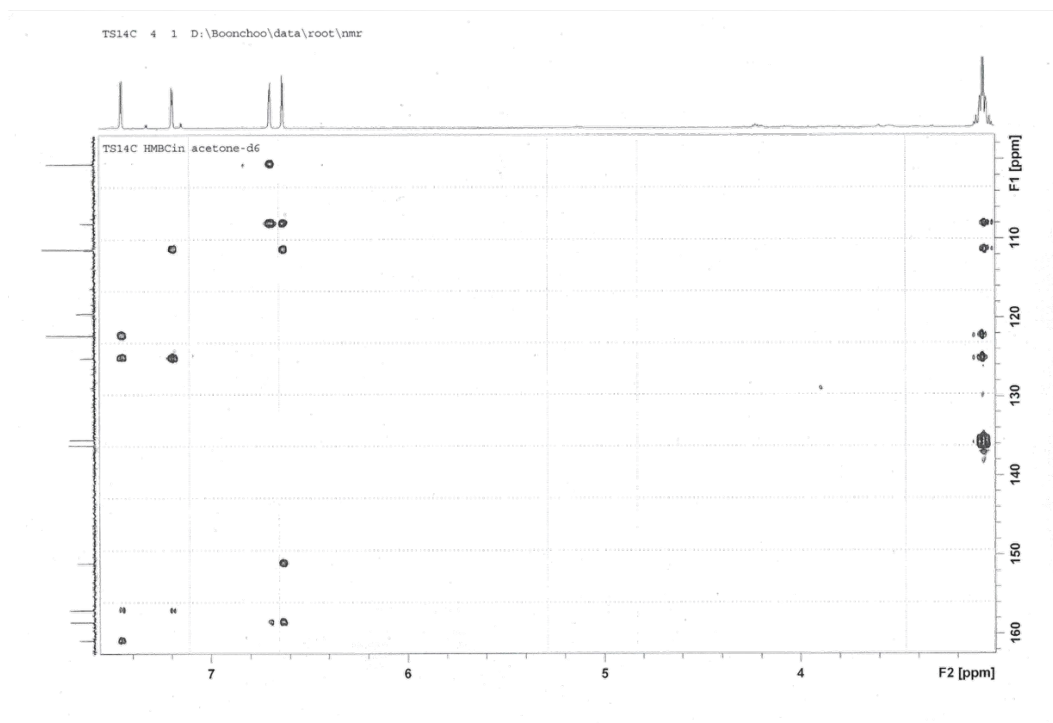
Figure 54S.  $^1\text{H}$  NMR (acetone- $d_6$ , 400 MHz) spectrum of compound **12**



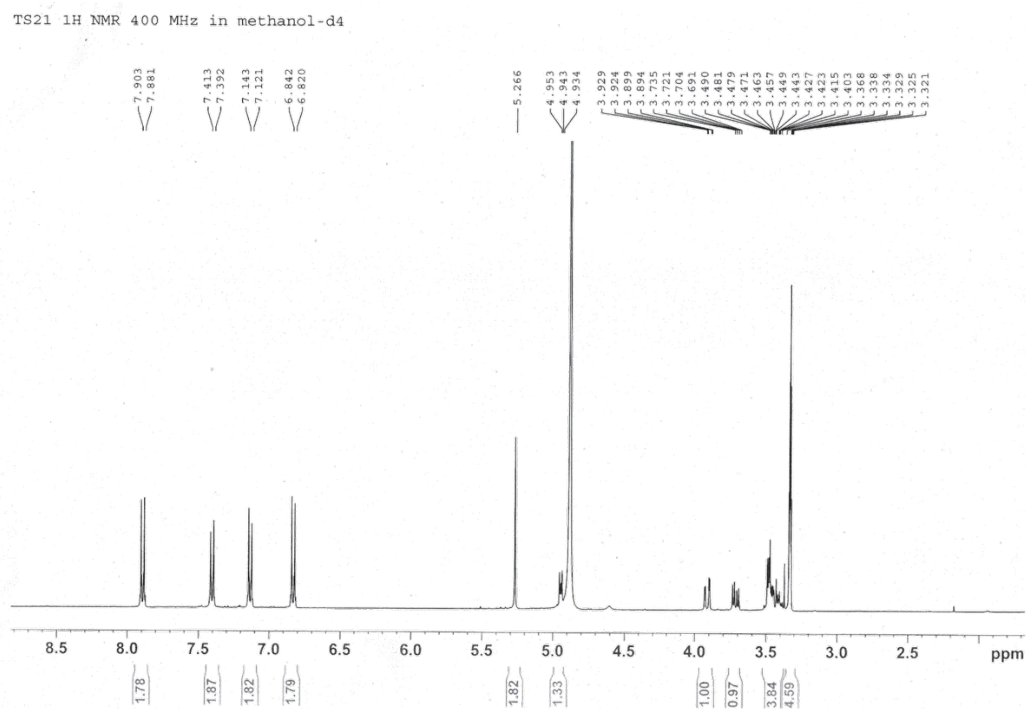
**Figure 55S.**  $^{13}\text{C}$  NMR (acetone- $d_6$ , 100 MHz) spectrum of compound **12**



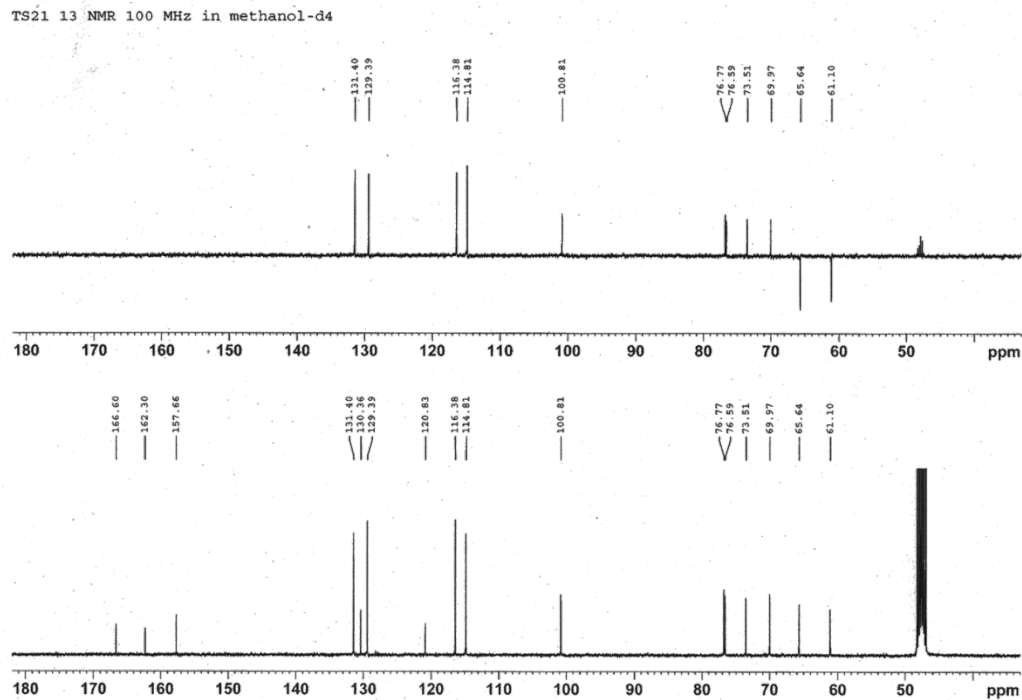
**Figure 56S.** HSQC (acetone- $d_6$ , 400/100 MHz) spectrum of compound **12**



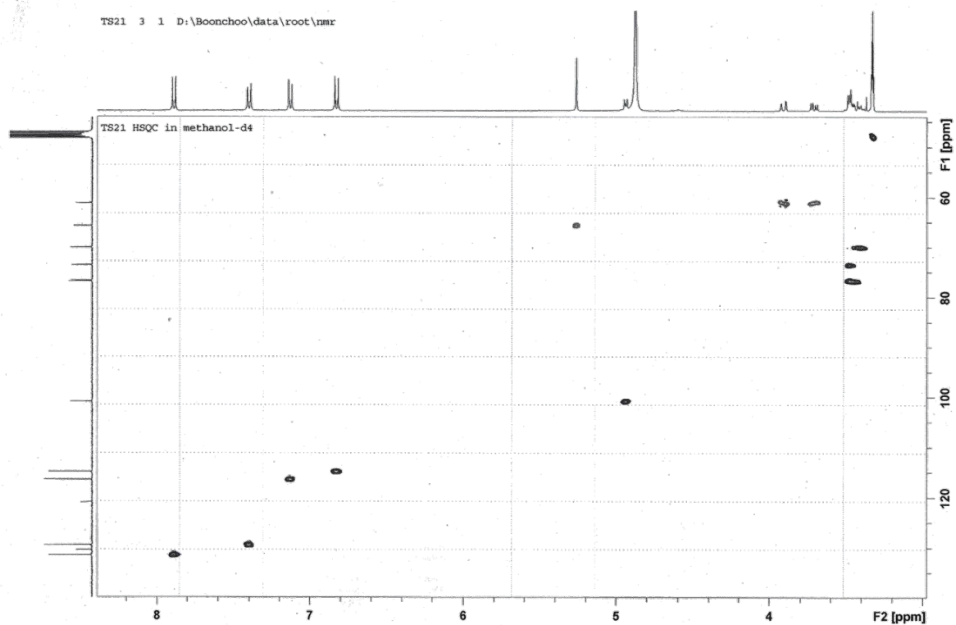
**Figure 57S.** HMBC (acetone- $d_6$ , 400/100 MHz) spectrum of compound **12**



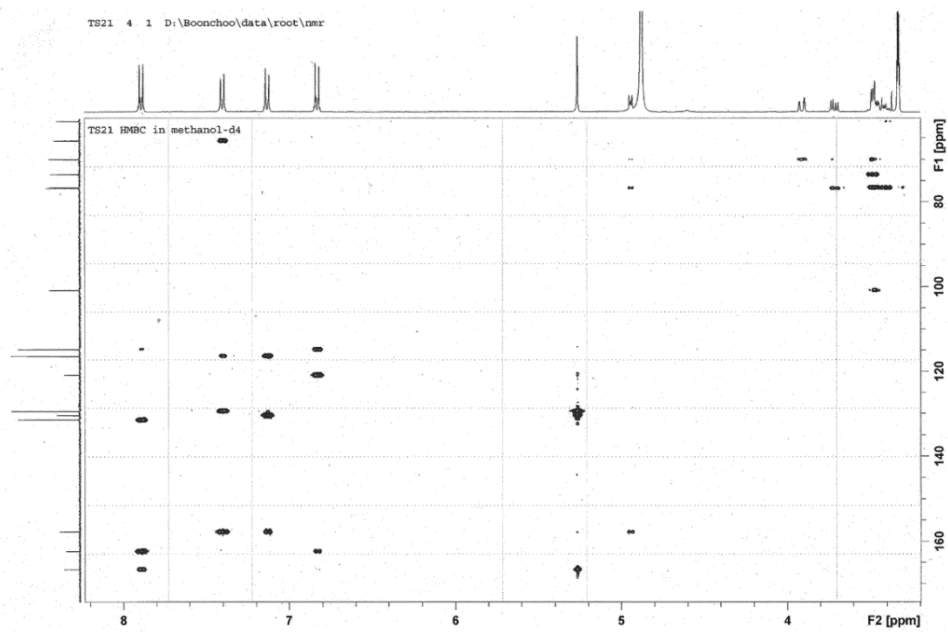
**Figure 58S.**  $^1\text{H}$  NMR (acetone- $d_6$ , 400 MHz) spectrum of compound **13**



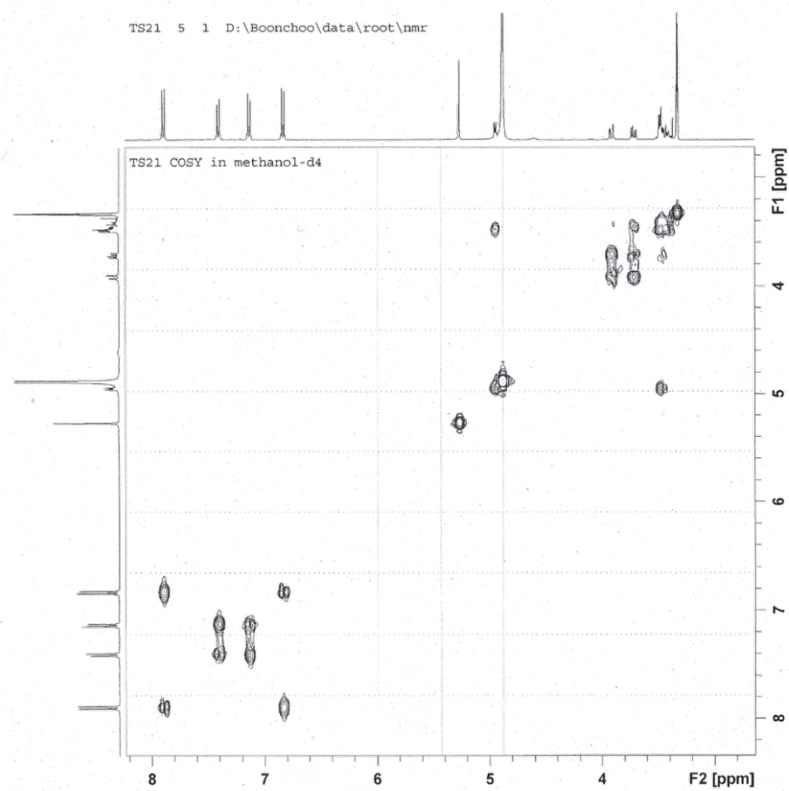
**Figure 59S.**  $^{13}\text{C}$  NMR and DEPT (acetone- $d_6$ , 100 MHz) spectrum of compound **13**



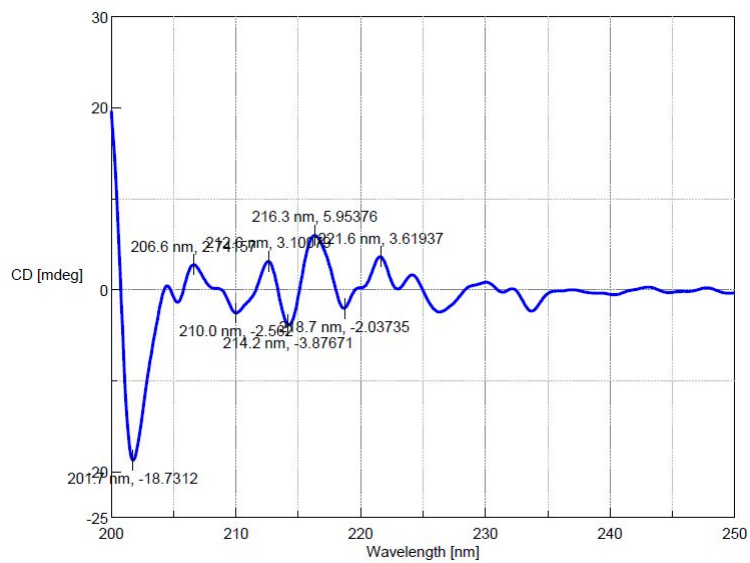
**Figure 60S.** HSQC (acetone- $d_6$ , 400/100 MHz) spectrum of compound **13**



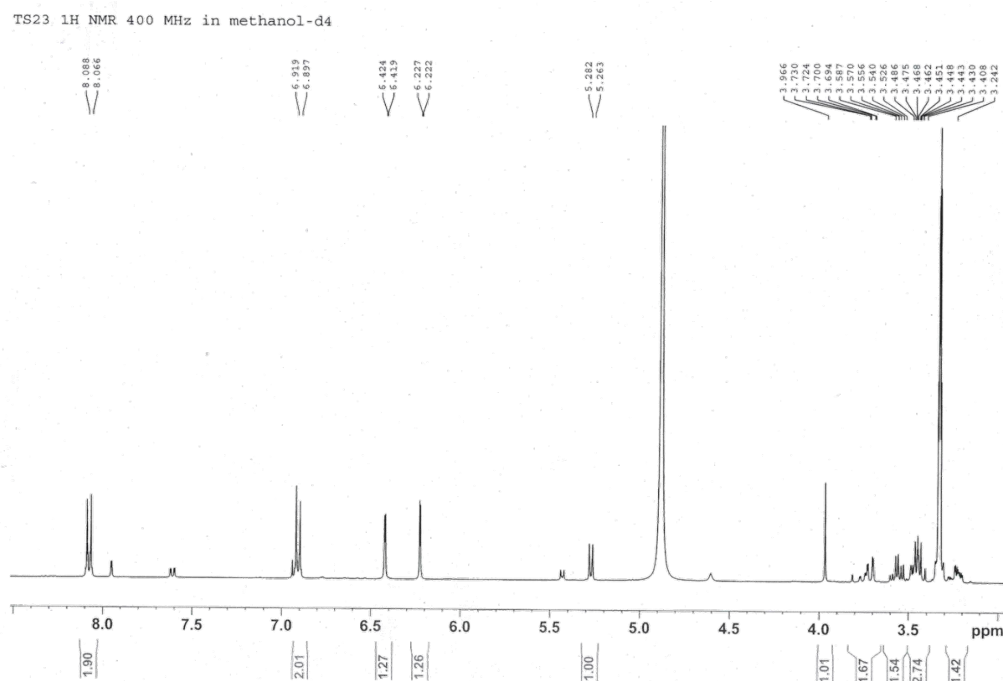
**Figure 61S.** HMBC (acetone- $d_6$ , 400/100 MHz) spectrum of compound **13**



**Figure 62S.** COSY (acetone- $d_6$ , 400 MHz) spectrum of compound **13**

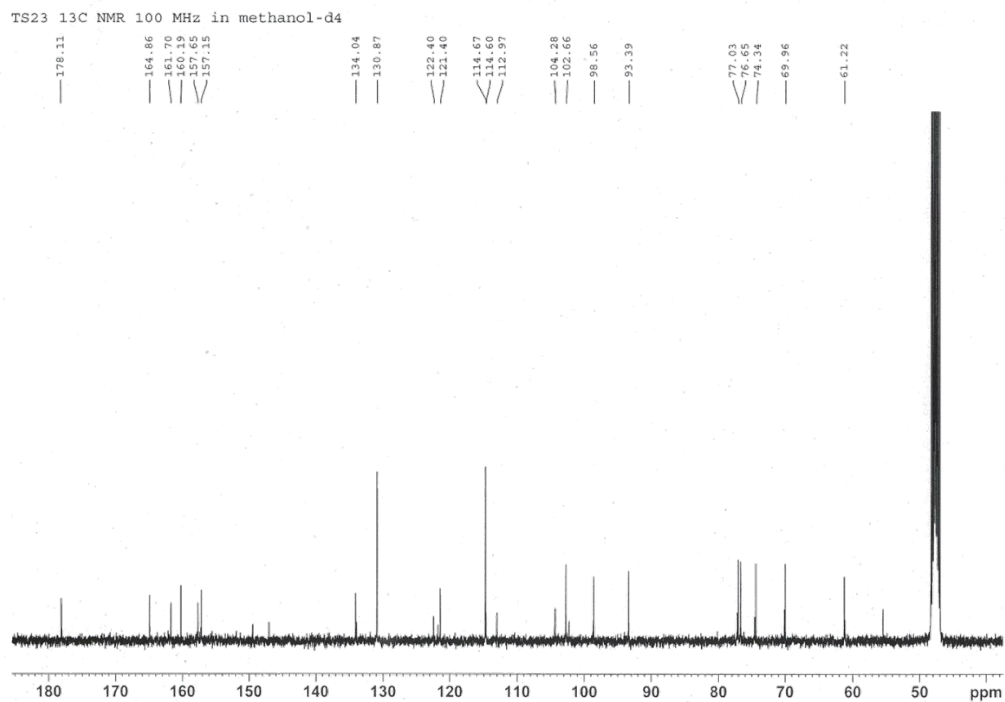


**Figure 63S.** CD spectrum of compound **13**

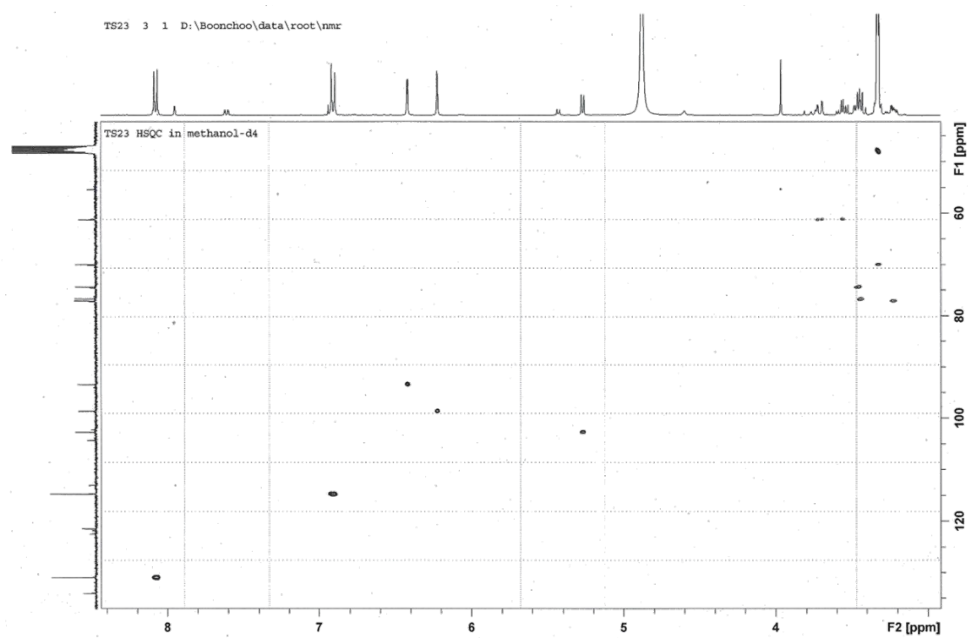


**Figure 64S.**  $^1\text{H}$  NMR (acetone- $d_6$ , 400 MHz) spectrum of compound **14**

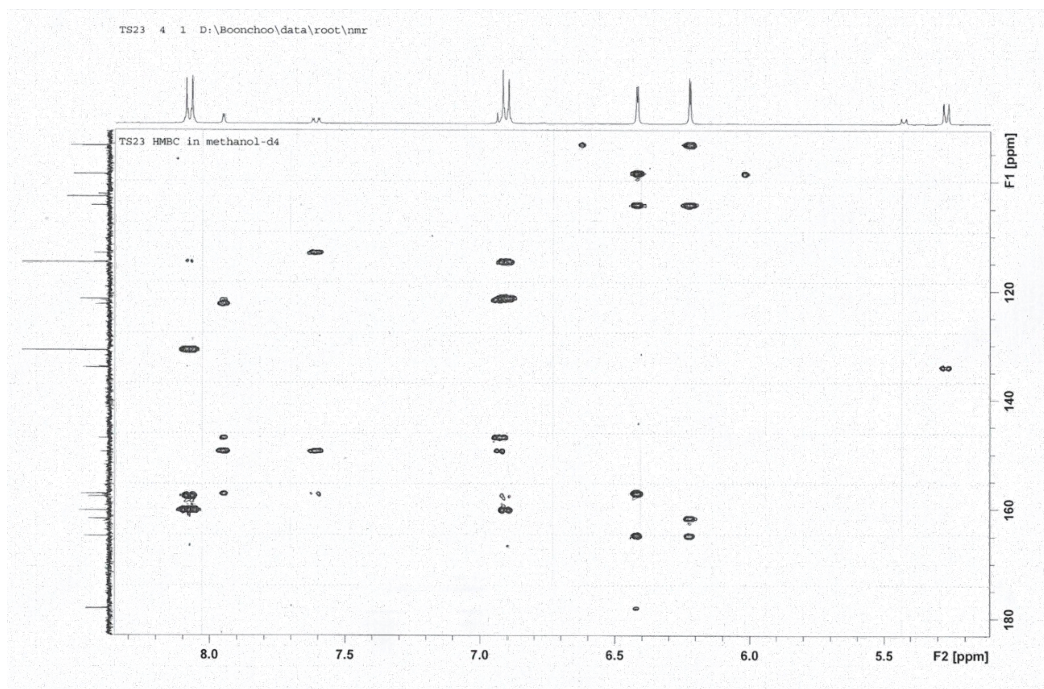




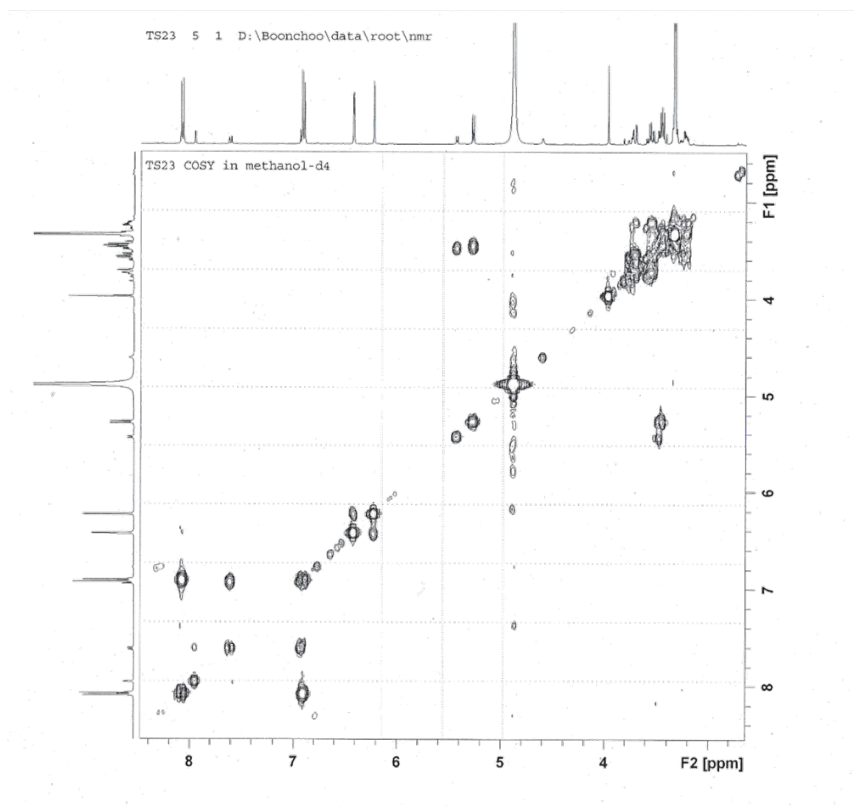
**Figure 65S.** <sup>13</sup>C NMR (acetone-*d*<sub>6</sub>, 100 MHz) spectrum of compound **14**



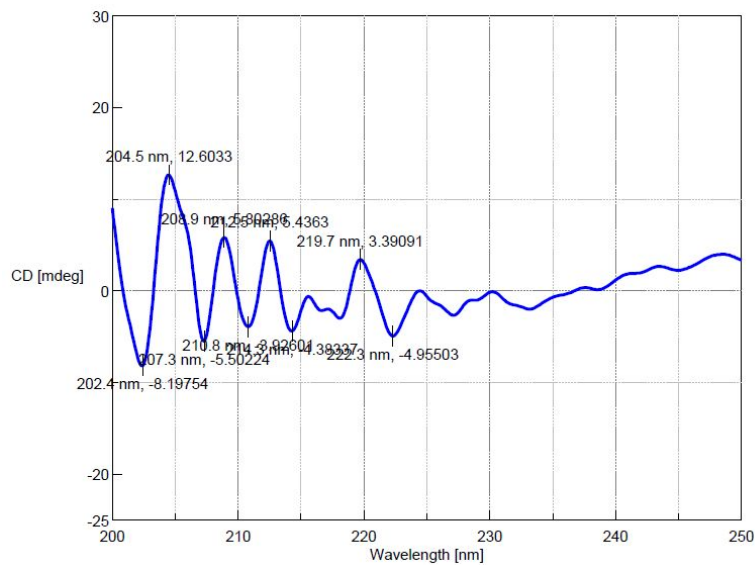
**Figure 66S.** HSQC (acetone-*d*<sub>6</sub>, 400/100 MHz) spectrum of compound **14**



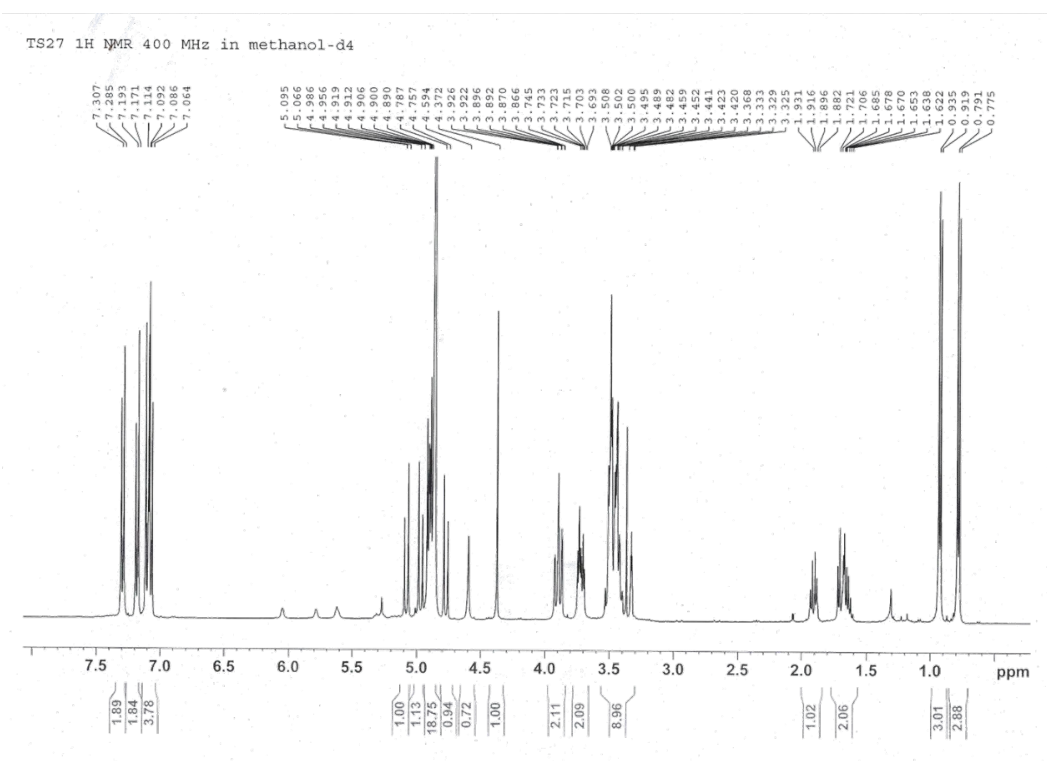
**Figure 67S.** HMBC (acetone- $d_6$ , 400/100 MHz) spectrum of compound **14**



**Figure 68S.** COSY (acetone- $d_6$ , 400 MHz) spectrum of compound **14**



**Figure 69S.** CD spectrum of compound 14



**Figure 70S.**  $^1\text{H}$  NMR (acetone- $d_6$ , 400 MHz) spectrum of compound 15

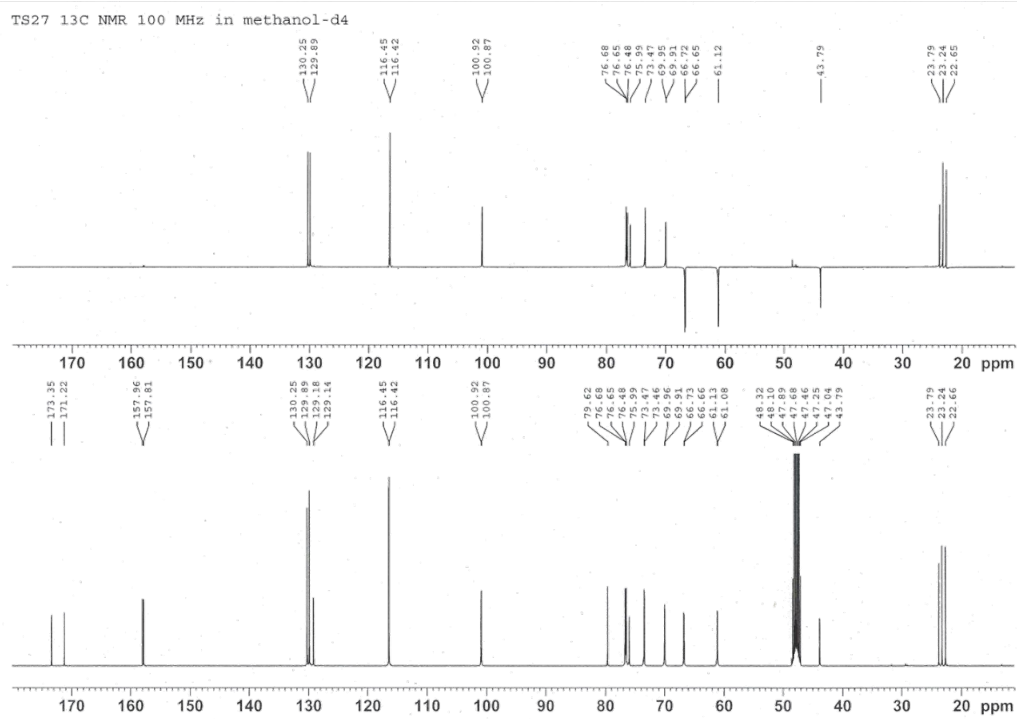


Figure 71S.  $^{13}\text{C}$  NMR and DEPT (acetone- $d_6$ , 100 MHz) spectrum of compound 15

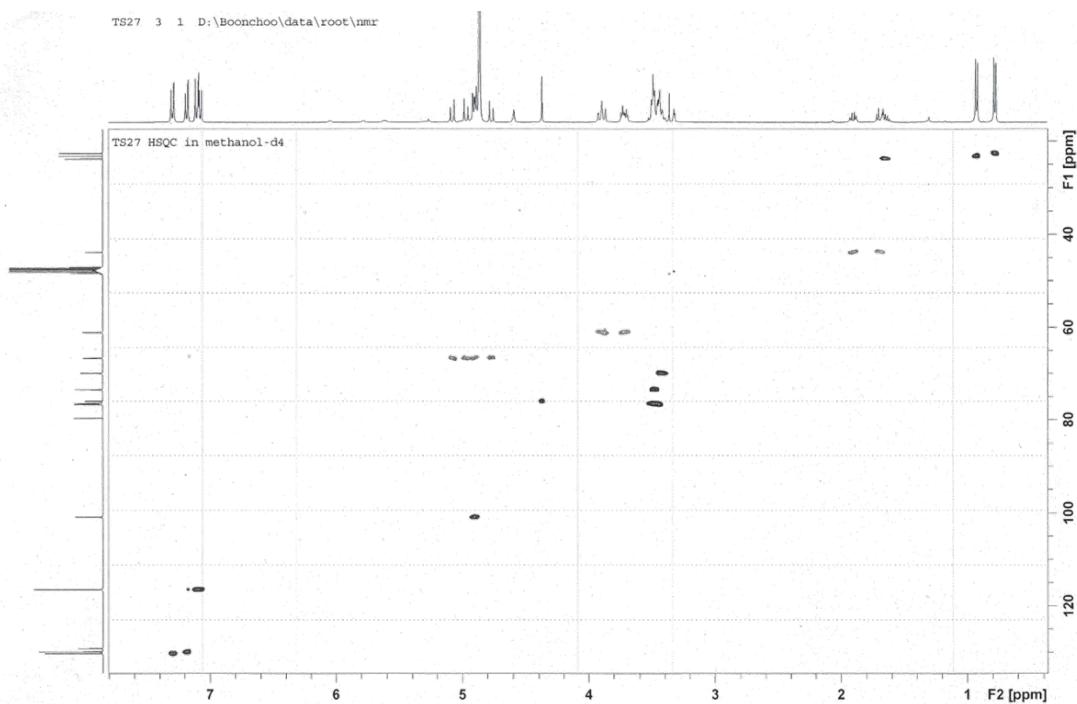
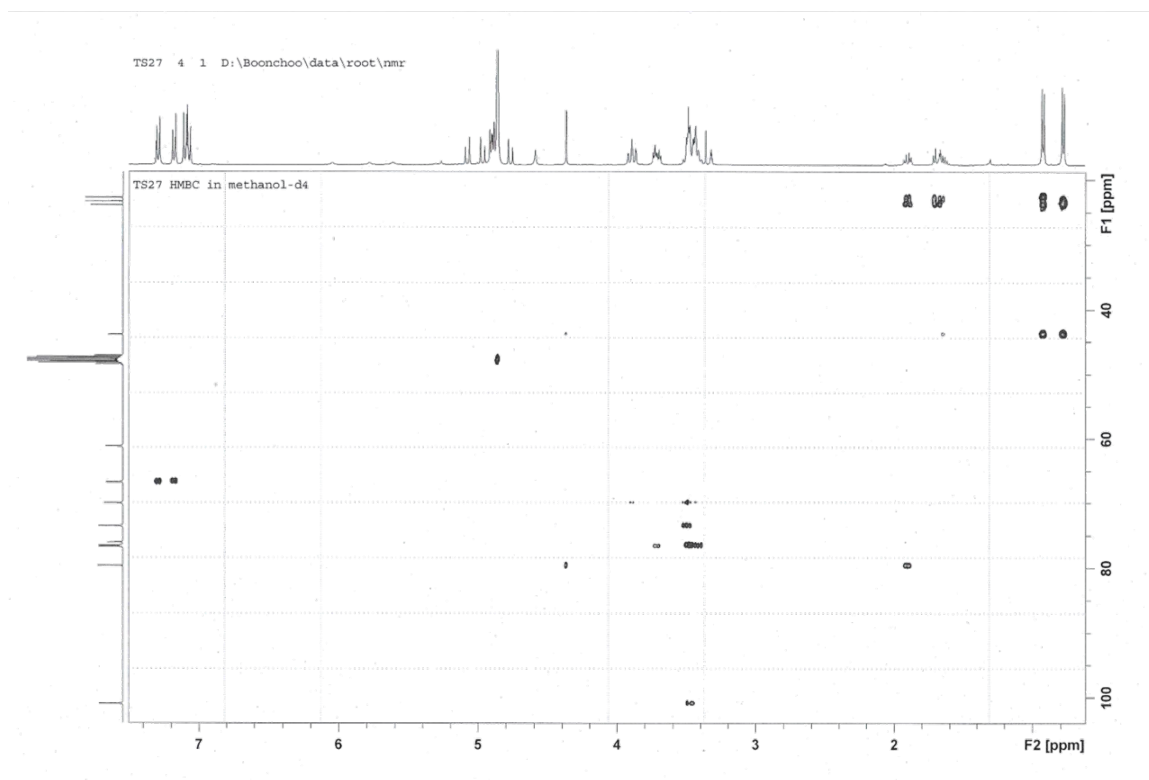
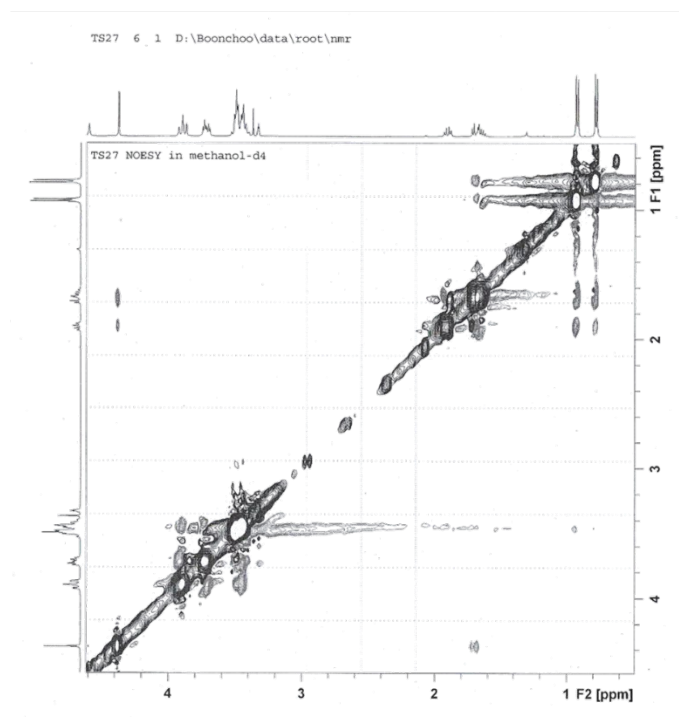


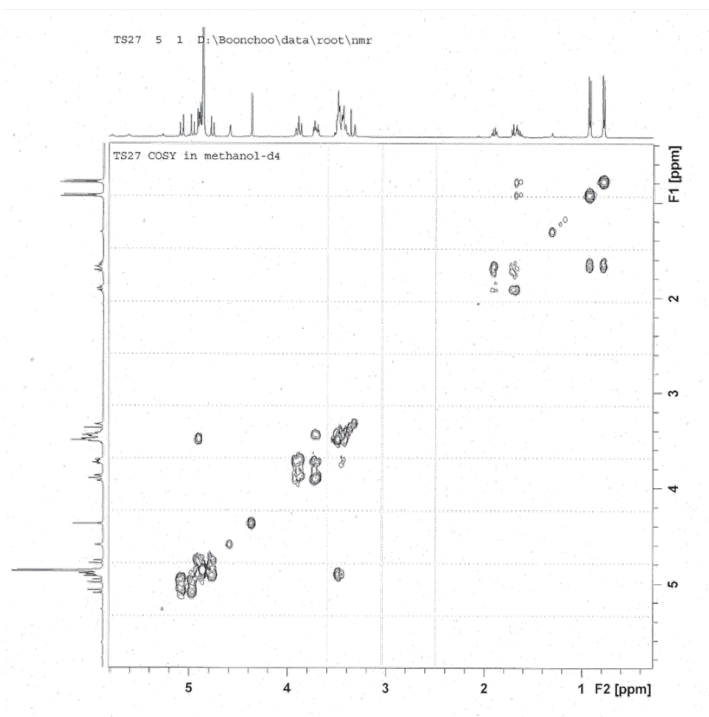
Figure 72S. HSQC (acetone- $d_6$ , 400/100 MHz) spectrum of compound 15



**Figure 73S.** HMBC (acetone- $d_6$ , 400/100 MHz) spectrum of compound **15**



**Figure 74S.** NOESY (acetone- $d_6$ , 400 MHz) spectrum of compound **15**



**Figure 75S.** COSY (acetone- $d_6$ , 400 MHz) spectrum of compound **15**

**Table 1S.** IC<sub>50</sub> values of compounds **8**, **10**, **11**, **12**, etoposide, and carboplatin against the T47D and MDA-MB-231 breast cancer cell lines and the HaCaT human keratinocyte cell line.

<b>Compounds</b>	<b>Cytotoxicity IC<sub>50</sub> ± SD (μM)</b>		
	<b>T47D</b>	<b>MDA-MB-231</b>	<b>HaCaT</b>
<b>1</b>	NA	NA	NA
<b>3</b>	NA	NA	NA
<b>4</b>	NA	NA	NA
<b>5</b>	NA	NA	NA
<b>6</b>	NA	NA	NA
<b>7</b>	NA	NA	NA
<b>8</b>	111.40 ± 7.31	48.61 ± 2.16	58.76 ± 2.89
<b>9</b>	NA	NA	NA
<b>10</b>	44.43 ± 2.7	63.82 ± 10.31	114.5 ± 7.65
<b>11</b>	67.72 ± 5.9	67.15 ± 5.72	115.19 ± 7.69
<b>12</b>	69.02 ± 7.23	26.26 ± 4.33	113.38 ± 6.31
<b>13</b>	NA	NA	NA
<b>14</b>	NA	NA	NA
<b>15</b>	NA	NA	NA
carboplatin	116.90 ± 3.23	101.90 ± 7.11	118.90 ± 5.93
etoposide	79.05 ± 7.4	43.21 ± 5.19	4.86 ± 0.35

NA: no cytotoxic activity