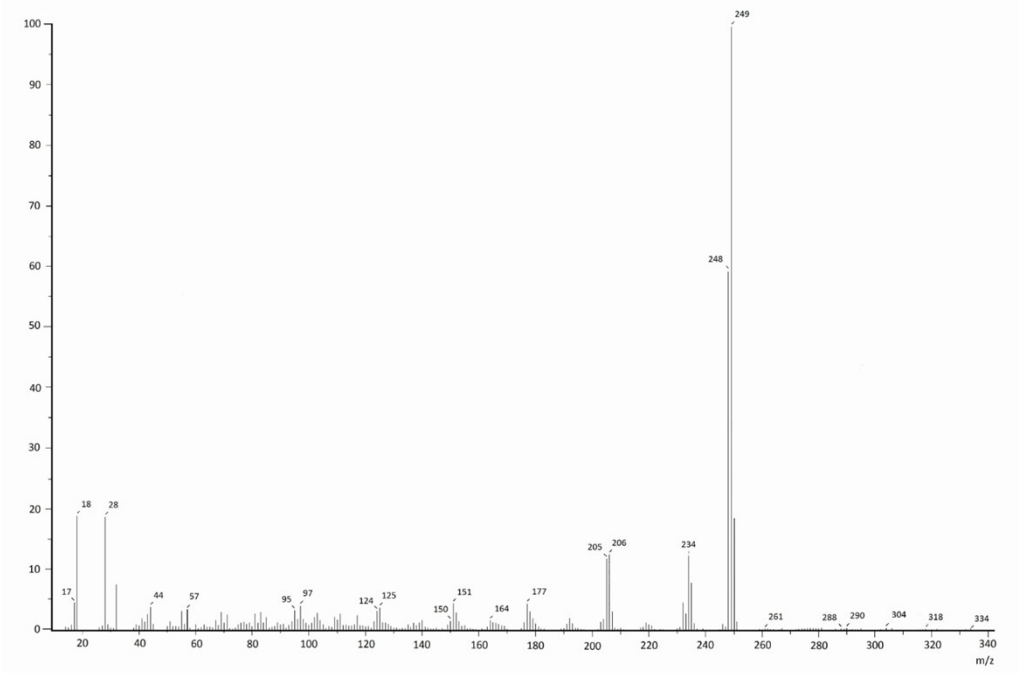
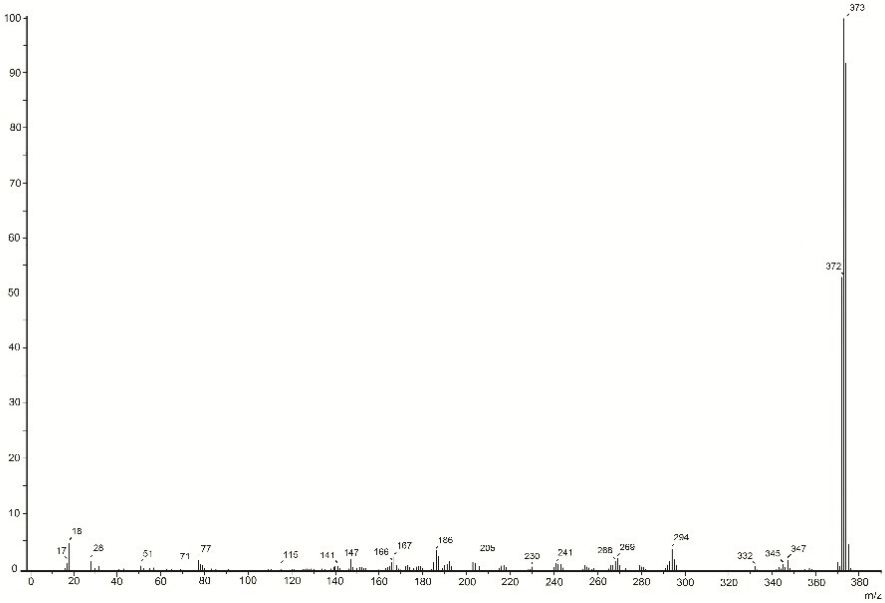
"Supplementary information"

Mass spectra

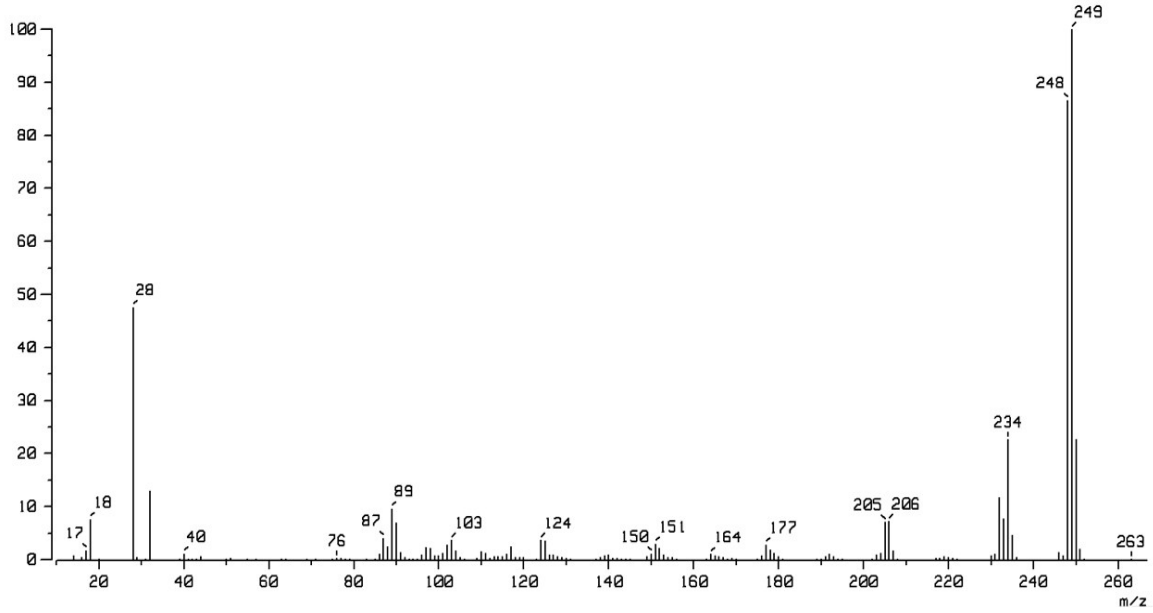
I



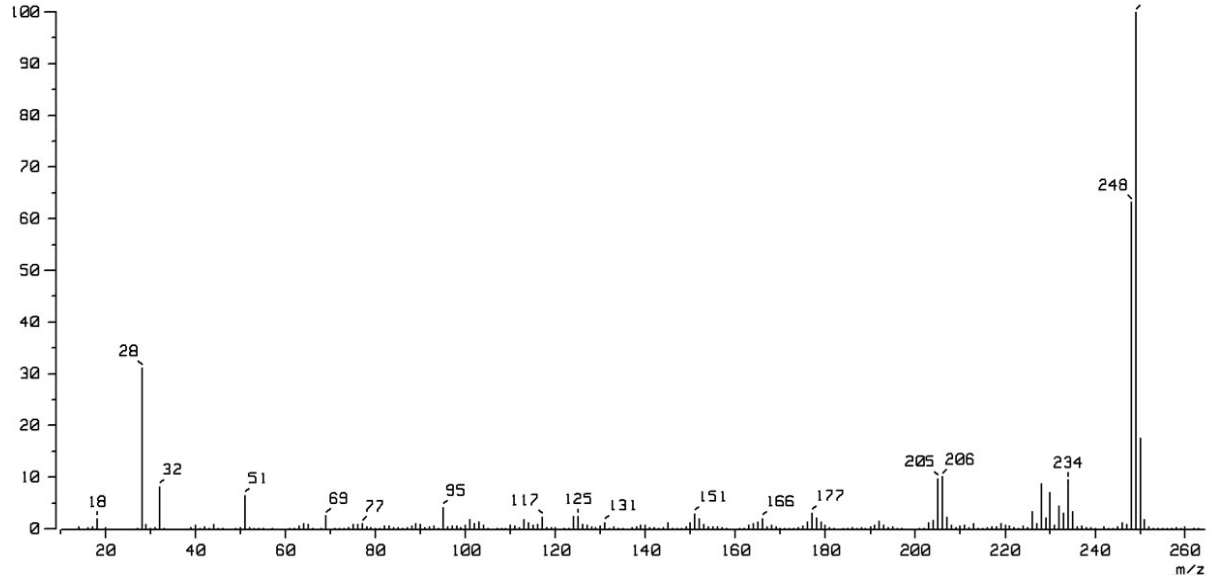
II



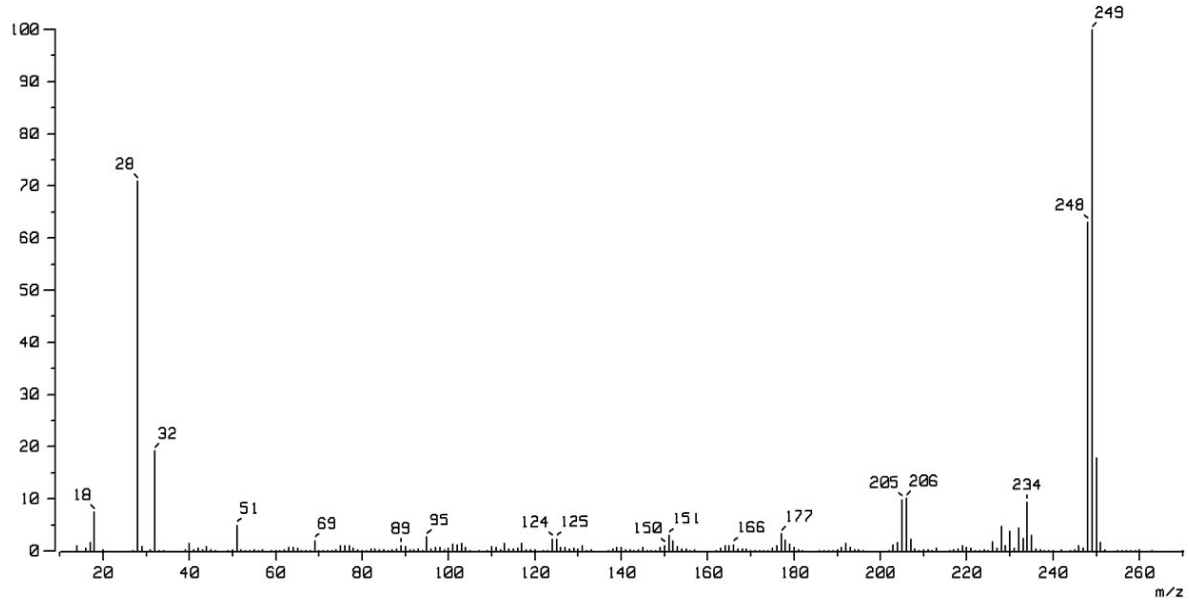
I*


249
248
28
234
89
18
205 206
87
103
124
17
40
76
150
151
164
177
263
m/z

I**

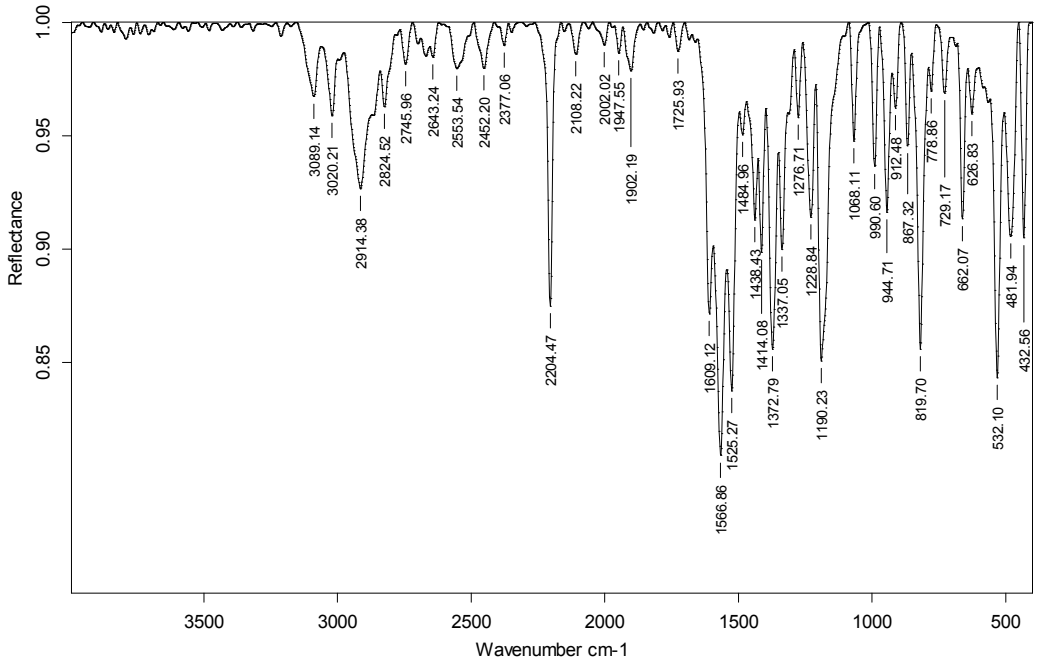

248
28
32
51
205 206
234
18
69
77
95
117
125
131
151
166
177
m/z

I***

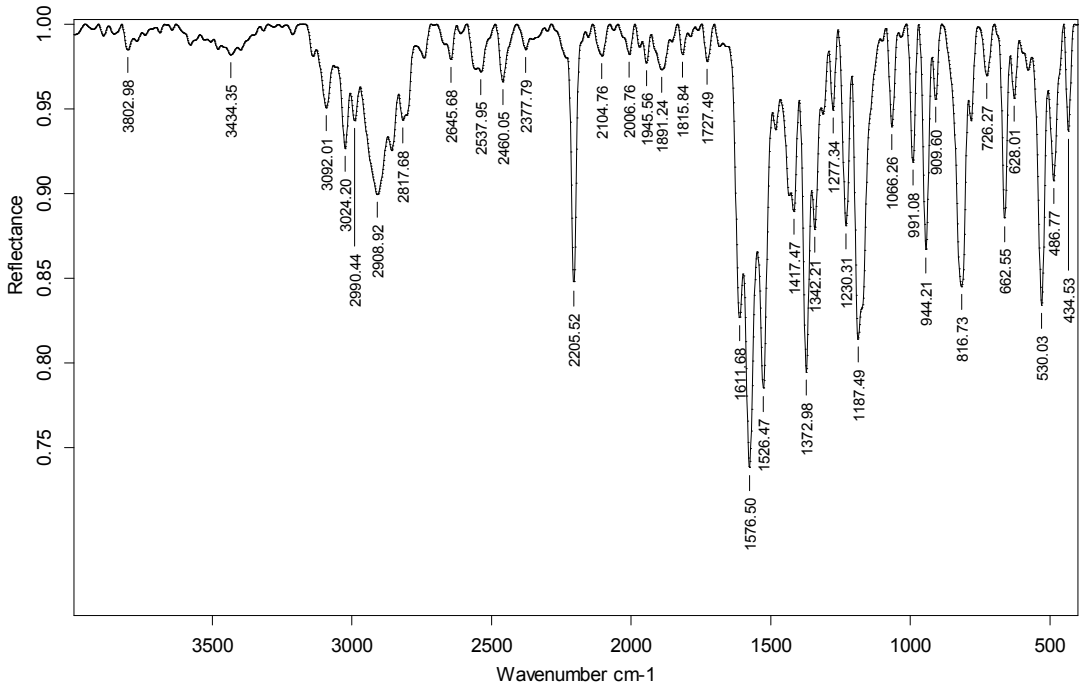


IR spectra

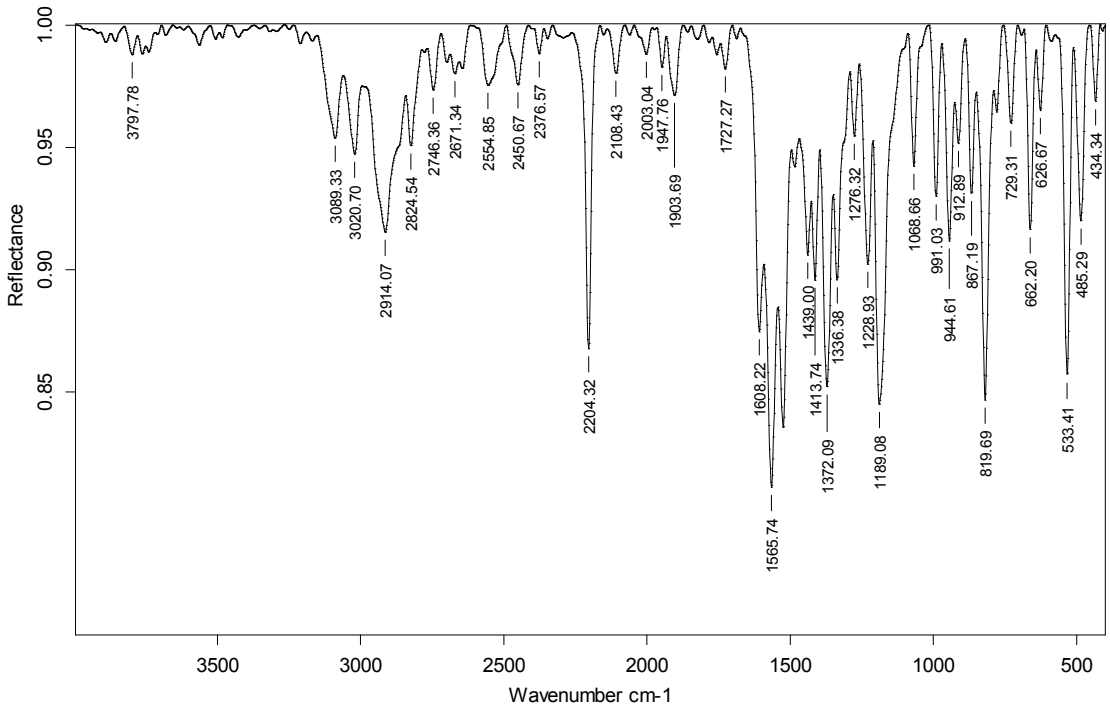
I*



I**

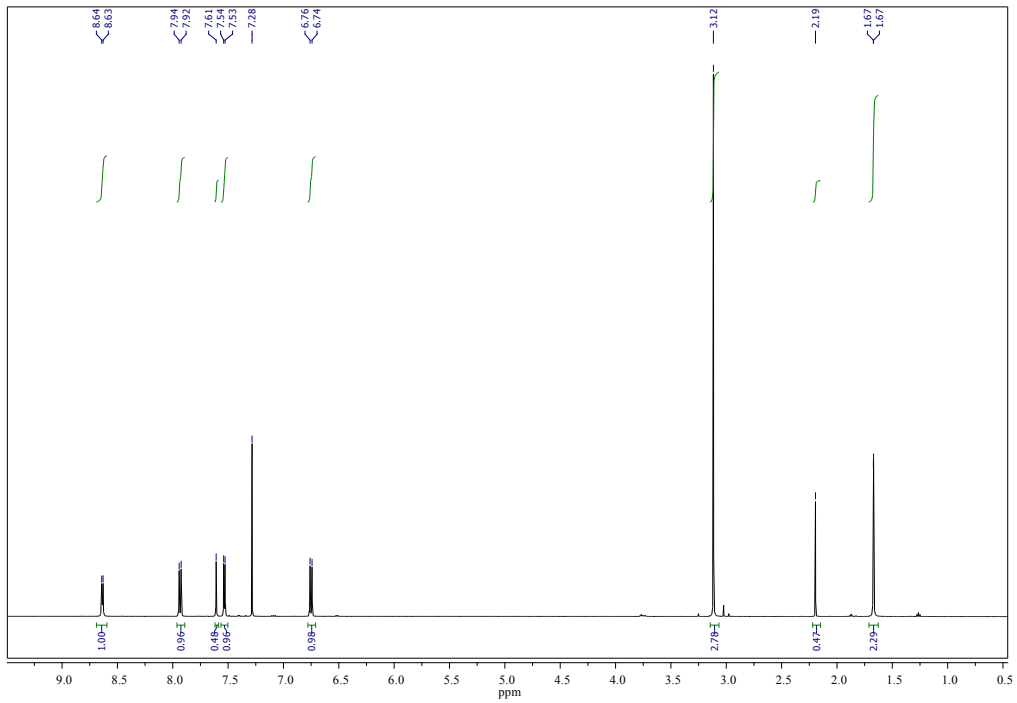


I***

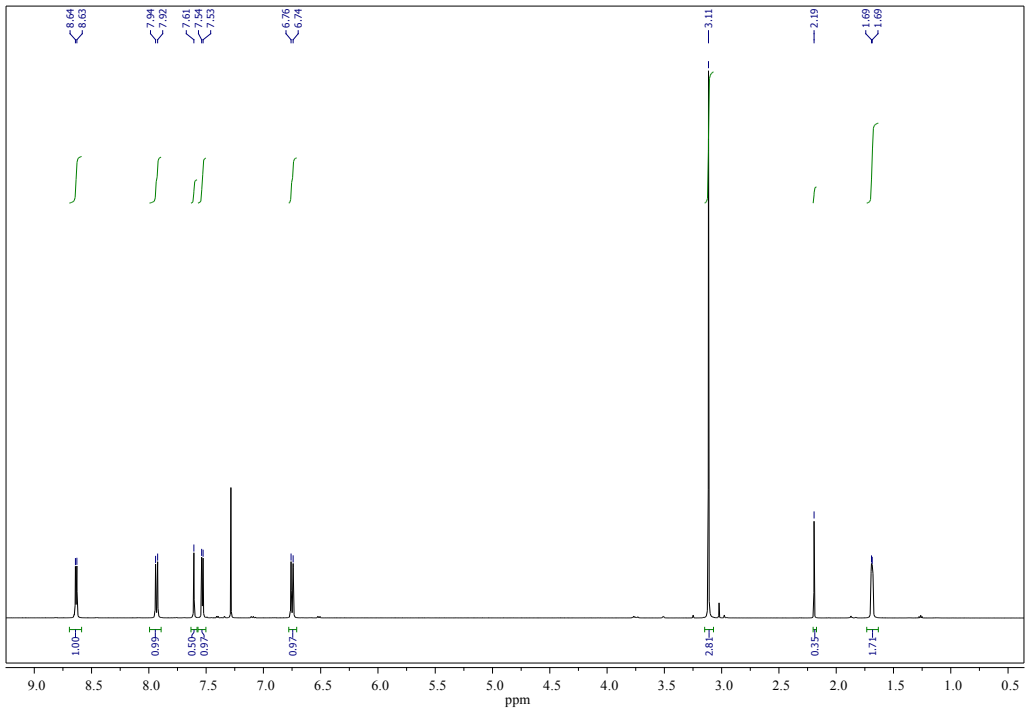

Reflectance
1.00
0.95
0.90
0.85
3797.78
3089.33
3020.70
2914.07
2824.54
2746.36
2671.34
2554.85
2450.67
2376.57
2204.32
2108.43
2003.04
1947.76
1903.69
1727.27
1608.22
1565.74
1439.00
1413.74
1372.09
1336.38
1276.32
1228.93
1189.08
1068.66
991.03
944.61
912.89
867.19
819.69
729.31
662.20
626.67
533.41
485.29
434.34
3500
3000
2500
2000
1500
1000
500
Wavenumber cm-1

^{1}H NMR

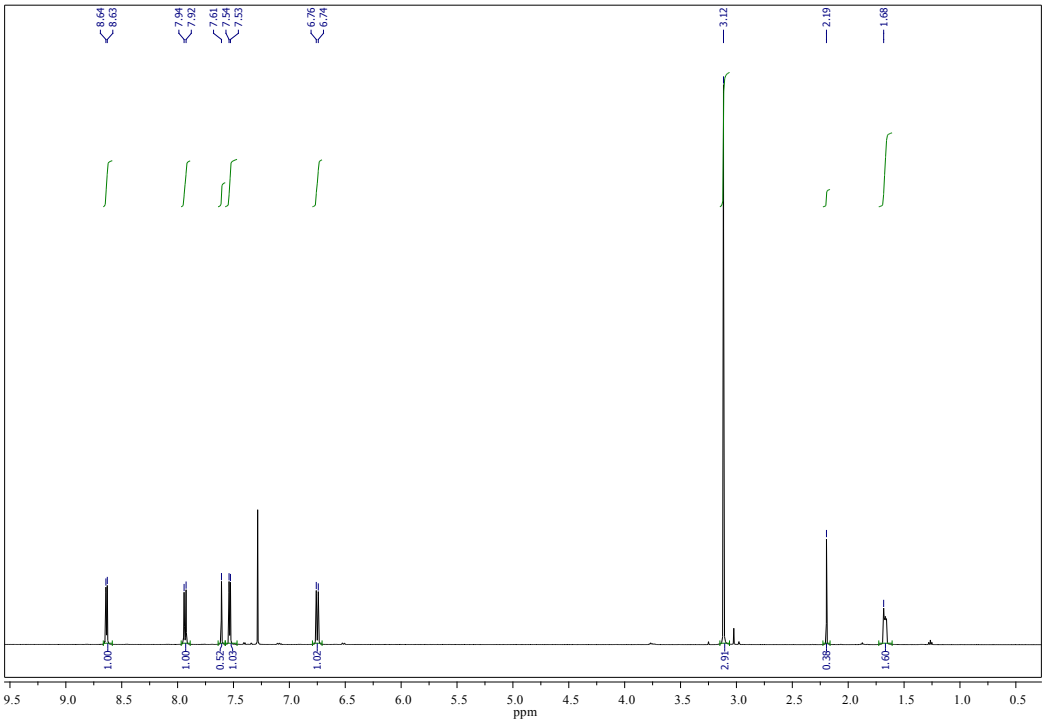
I*


8.64
8.63
7.94
7.92
7.61
7.54
7.53
7.28
6.76
6.74
3.12
2.19
1.67
1.67
1.00
0.96
0.48
0.96
0.98
2.78
0.47
2.29
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
ppm

I**

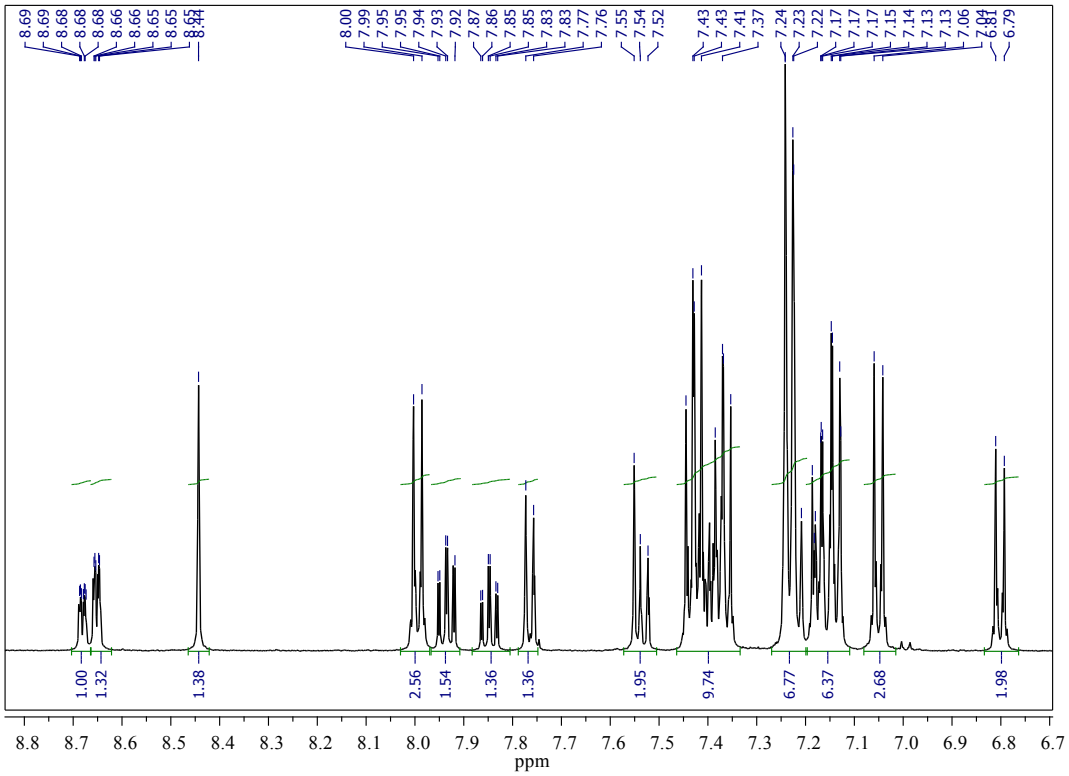

8.64
8.63
7.94
7.92
7.61
7.54
7.53
6.76
6.74
3.11
2.19
1.69
1.69
1.00
0.99
0.58
0.97
0.97
2.81
0.35
1.71
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
ppm

I***

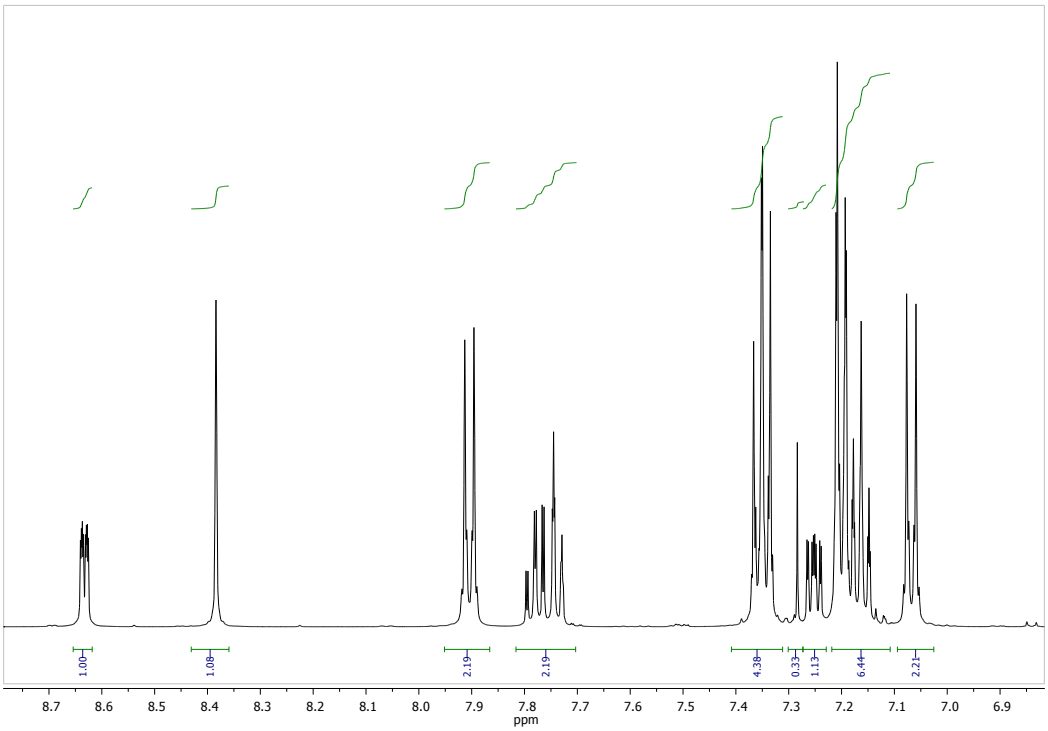


Note: **I*** obtained with conditions using piperidine as catalyst, **I**** obtained with DMF without catalyst. **I***** obtained with conditions using KOH as catalyst.

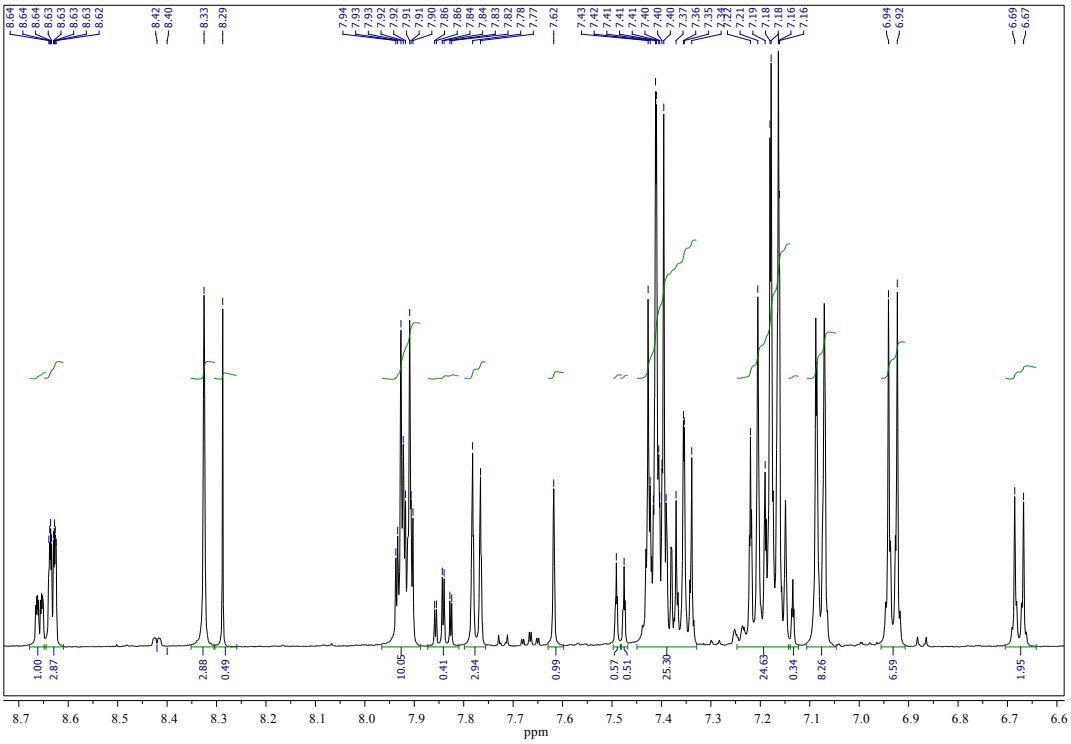
II (Acetone-d_6)



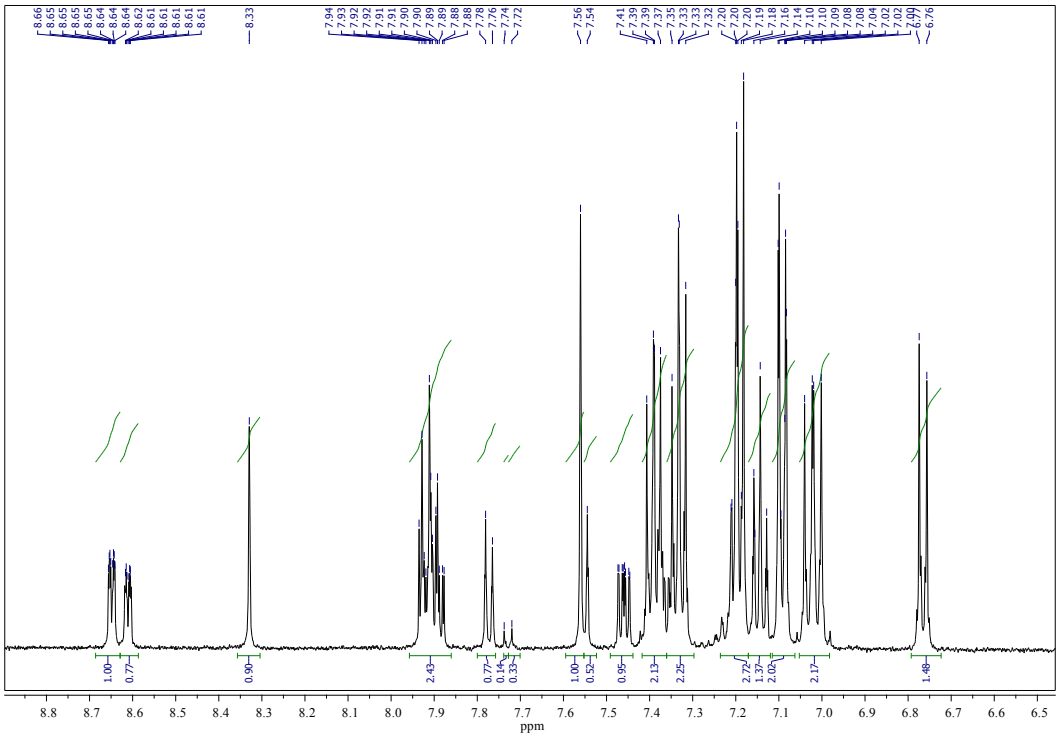
II ($CDCl_3$)



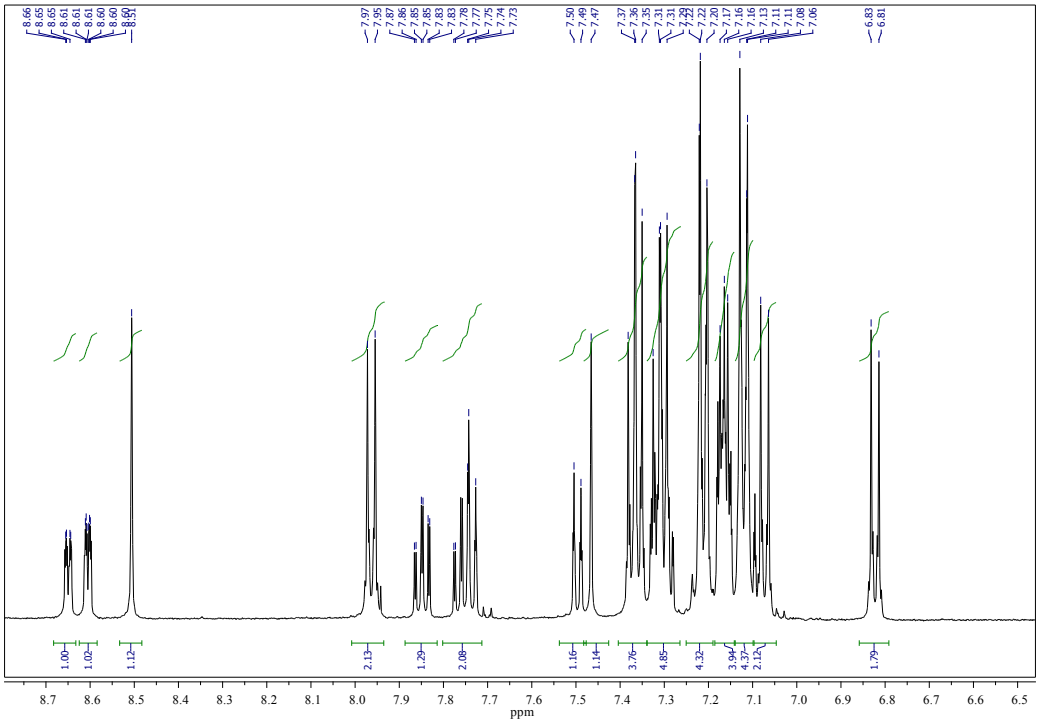
II (DMSO-d_6)



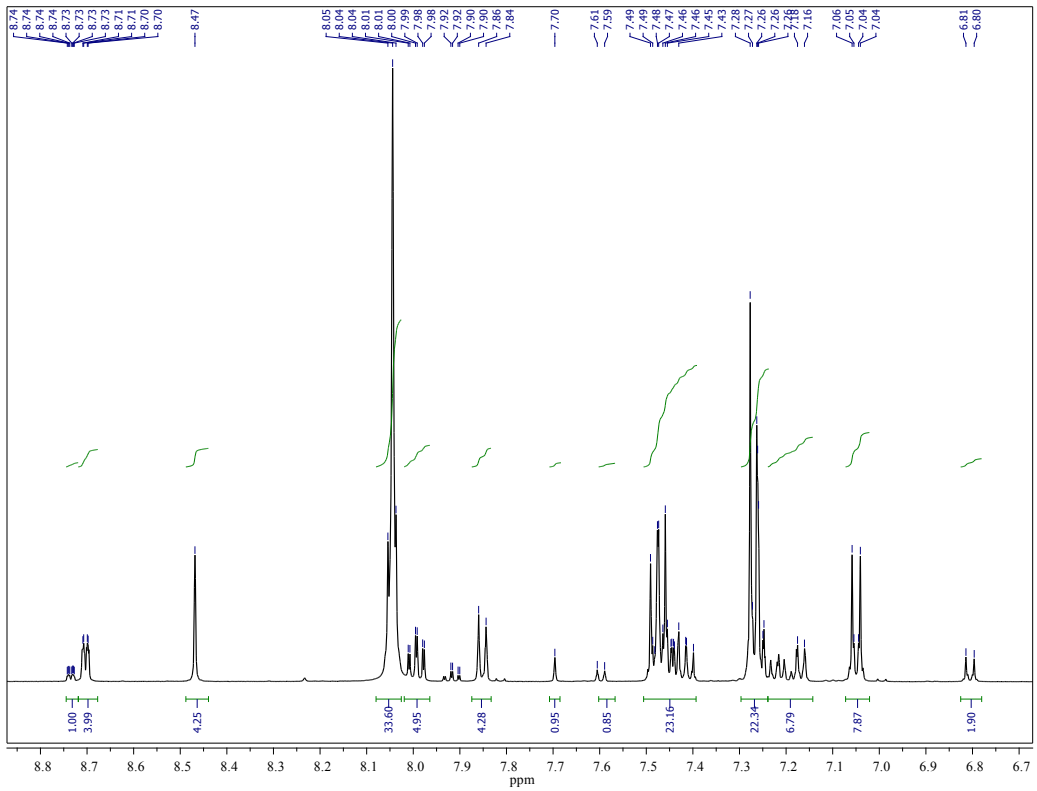
II (Methanol-d_4)

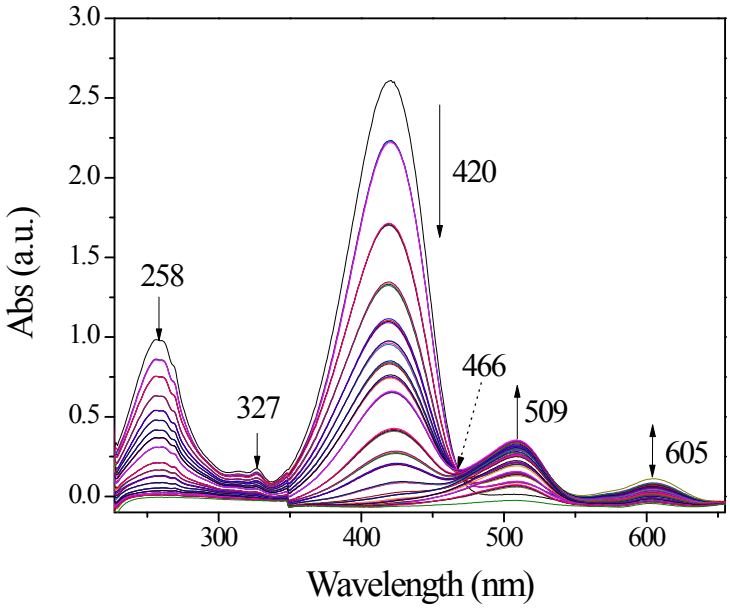


II (THF-d_8)

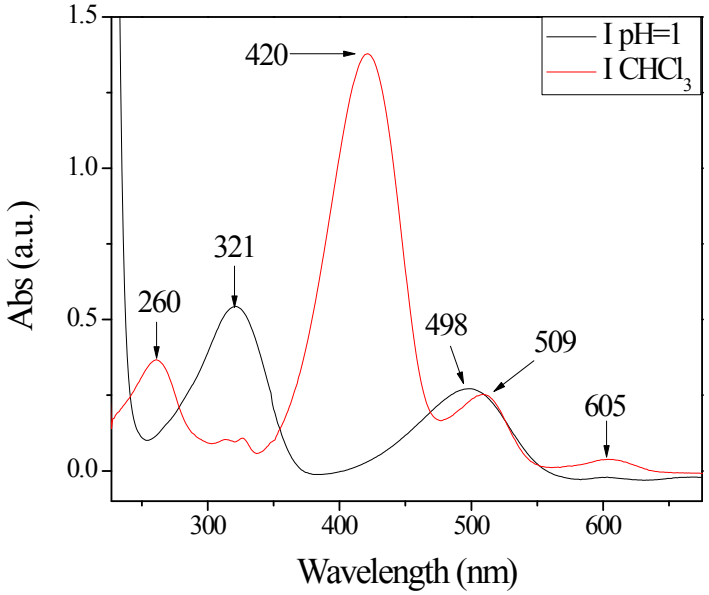


II (DMF-d_7)





(i)



(ii)

Figure **A**. Absorbance spectra in $CHCl_3$ at different time (i) and overlapped spectra of **I** in $CHCl_3$ and pH (ii).

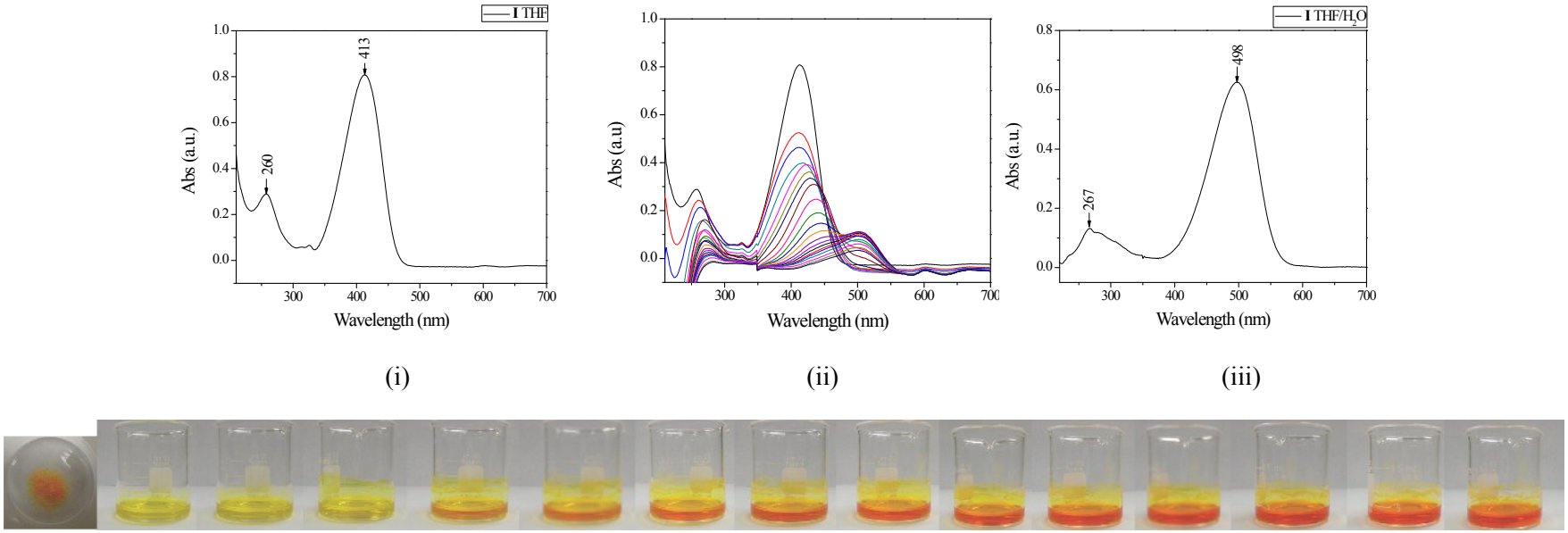


Figure **B**. Absorption spectrum of **I** in THF at initial stage (i) absorption spectra of **I** in different quantities of THF/H_2O (ii), absorption spectrum of **I** in THF/H_2O at final stage (iii) and picture of sequence in the color change of **I** in THF and THF/H_2O solution (iv).

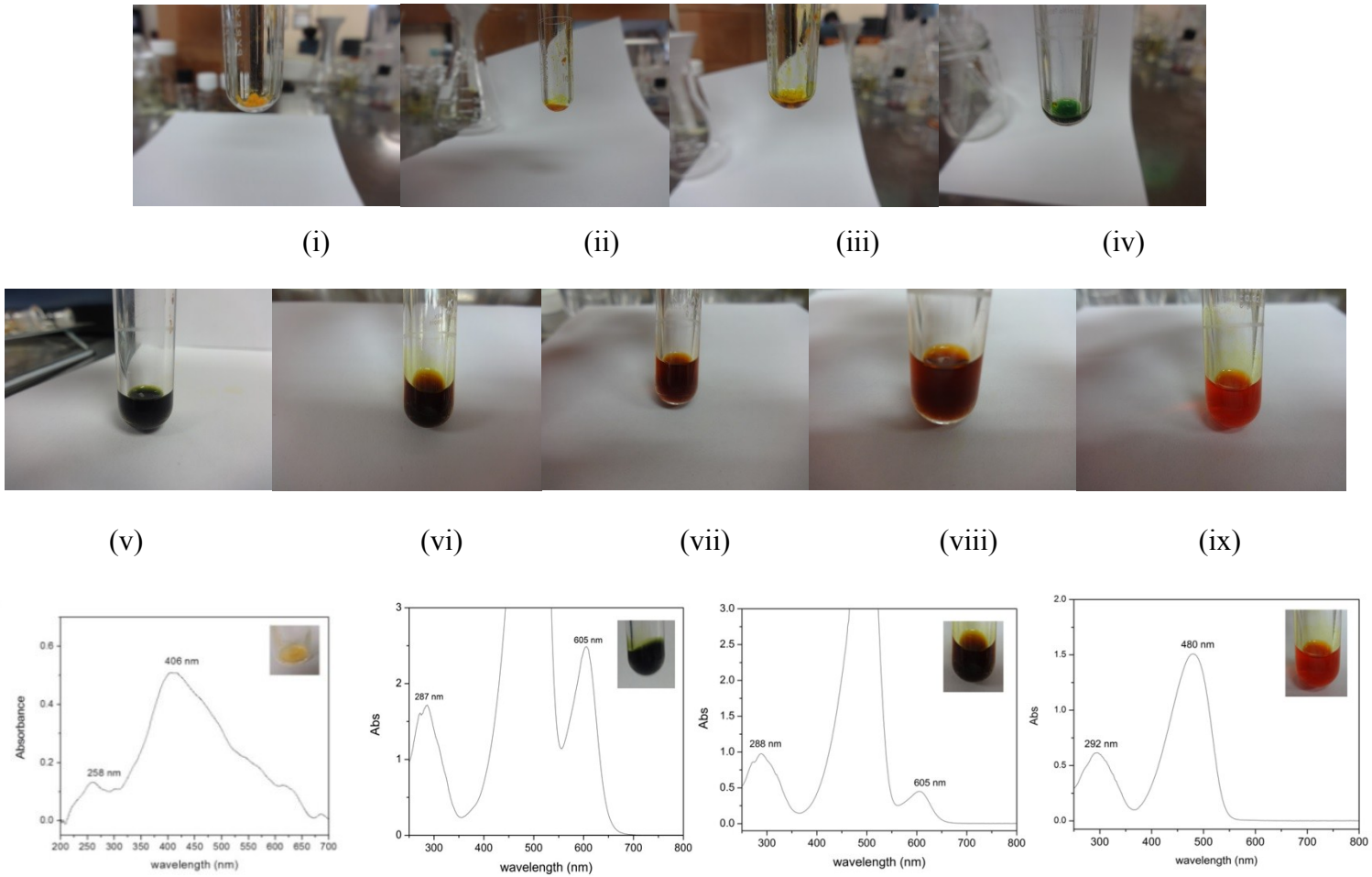
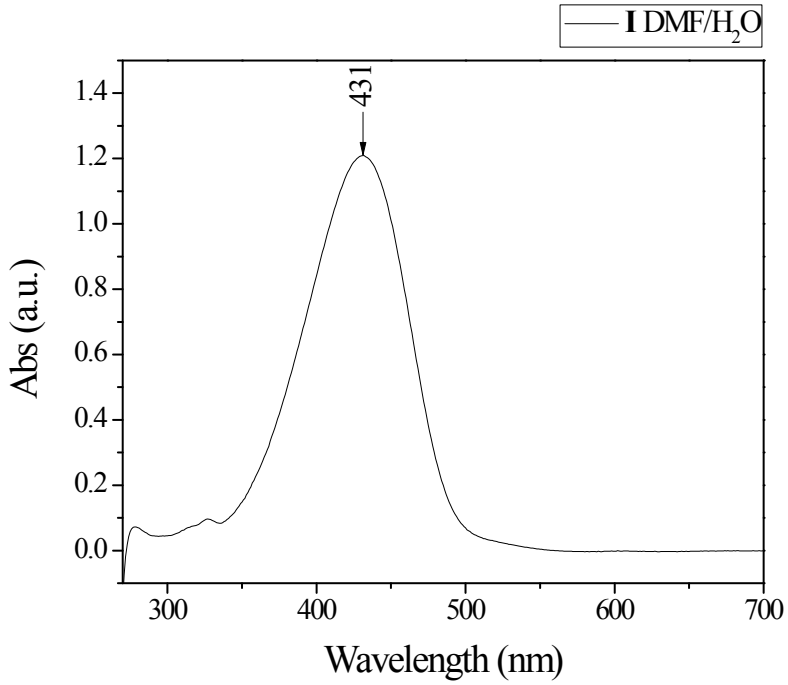
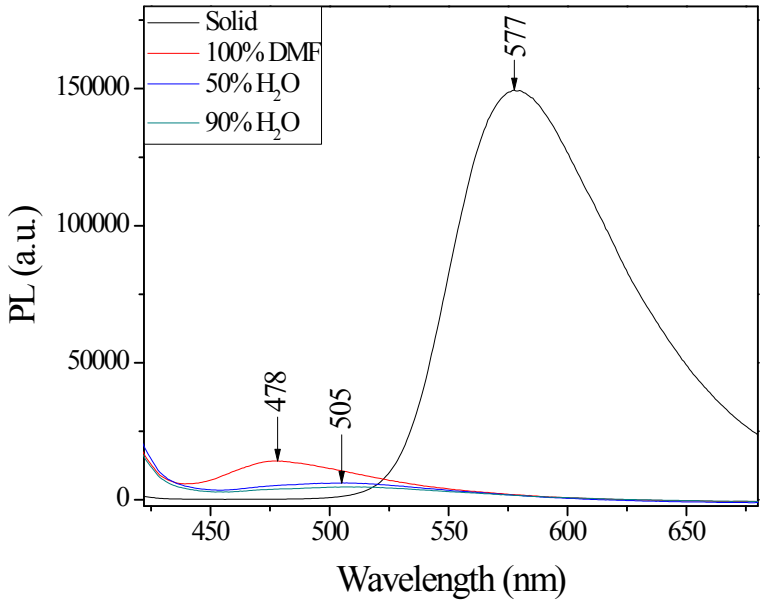


Figure **C**. Selected photographs and the absorbance spectra for detecting changes in solution color of **I** in $CHCl_3$.



(i)



(ii)

Figure **D**. Absorption spectrum of **I** in DMF/H_2O (i) and picture comparison of the emission in solution versus solid state (ii).