

# Supporting Information

## Synthesis and Photophysical Properties of 3,5-Diaryl-2-heteroarylthiophenes

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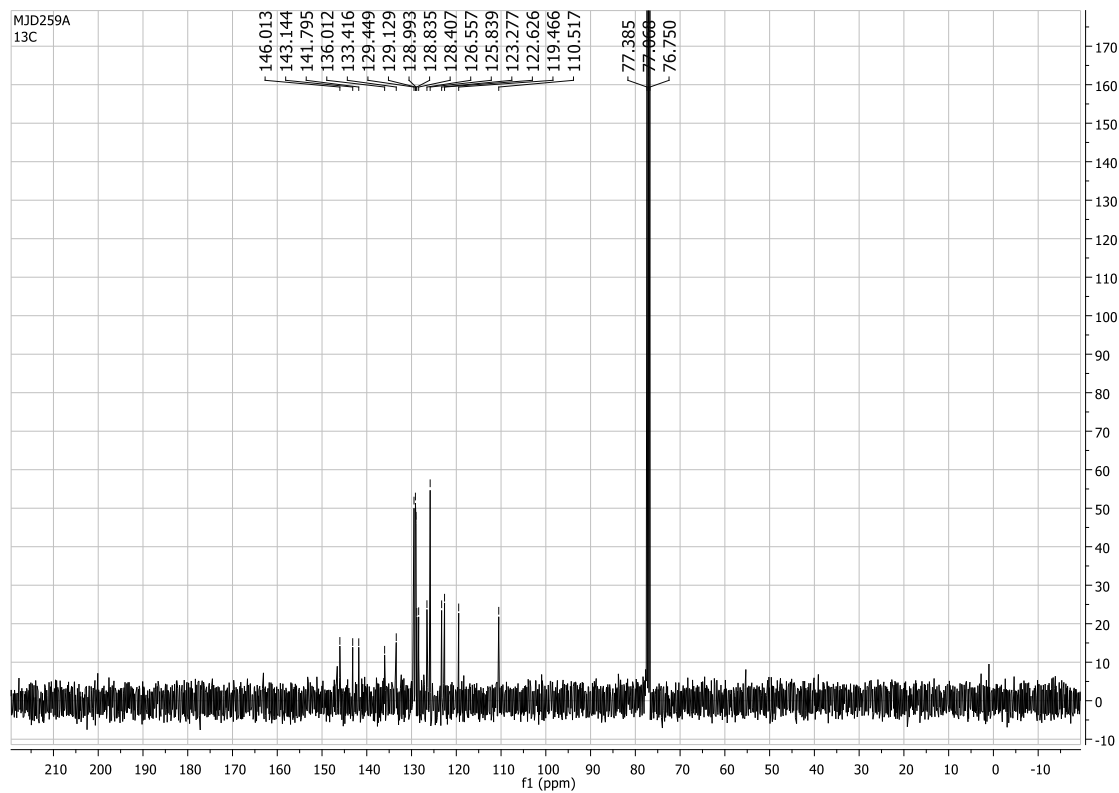
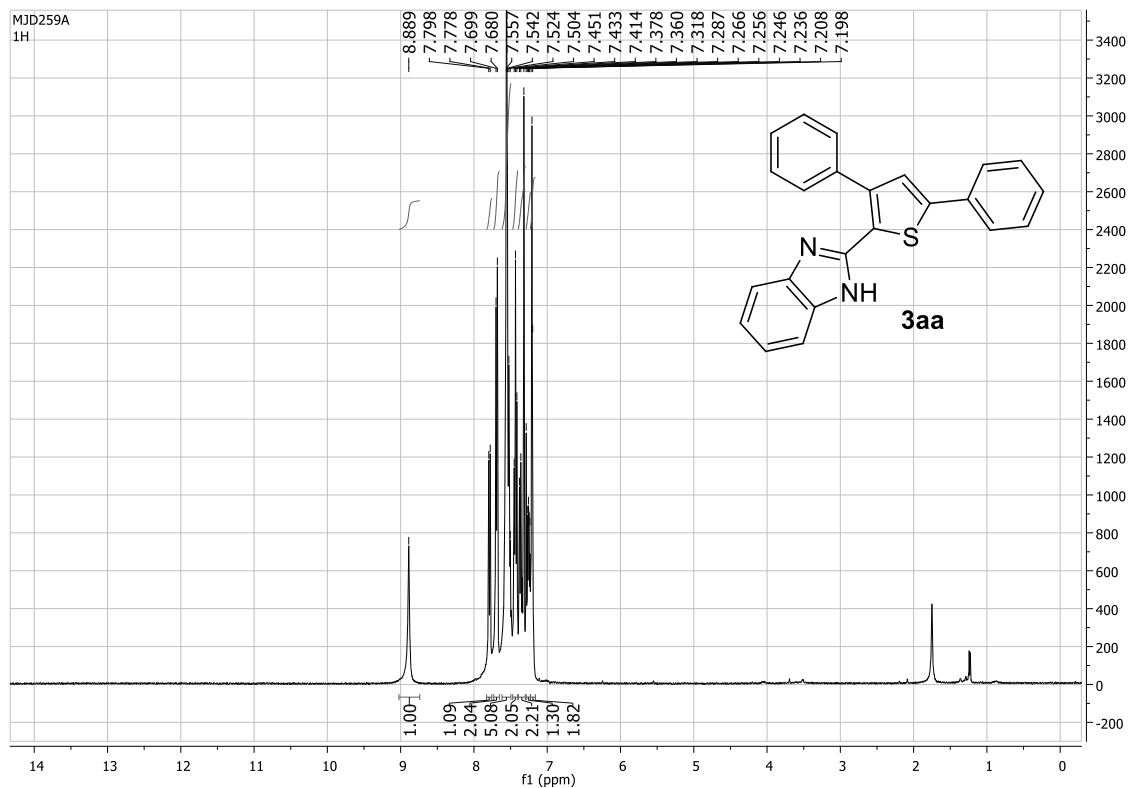
<sup>b</sup> – Latvian Institute of Organic Synthesis, Aizkraukles 21, LV-1006, Riga, Latvia

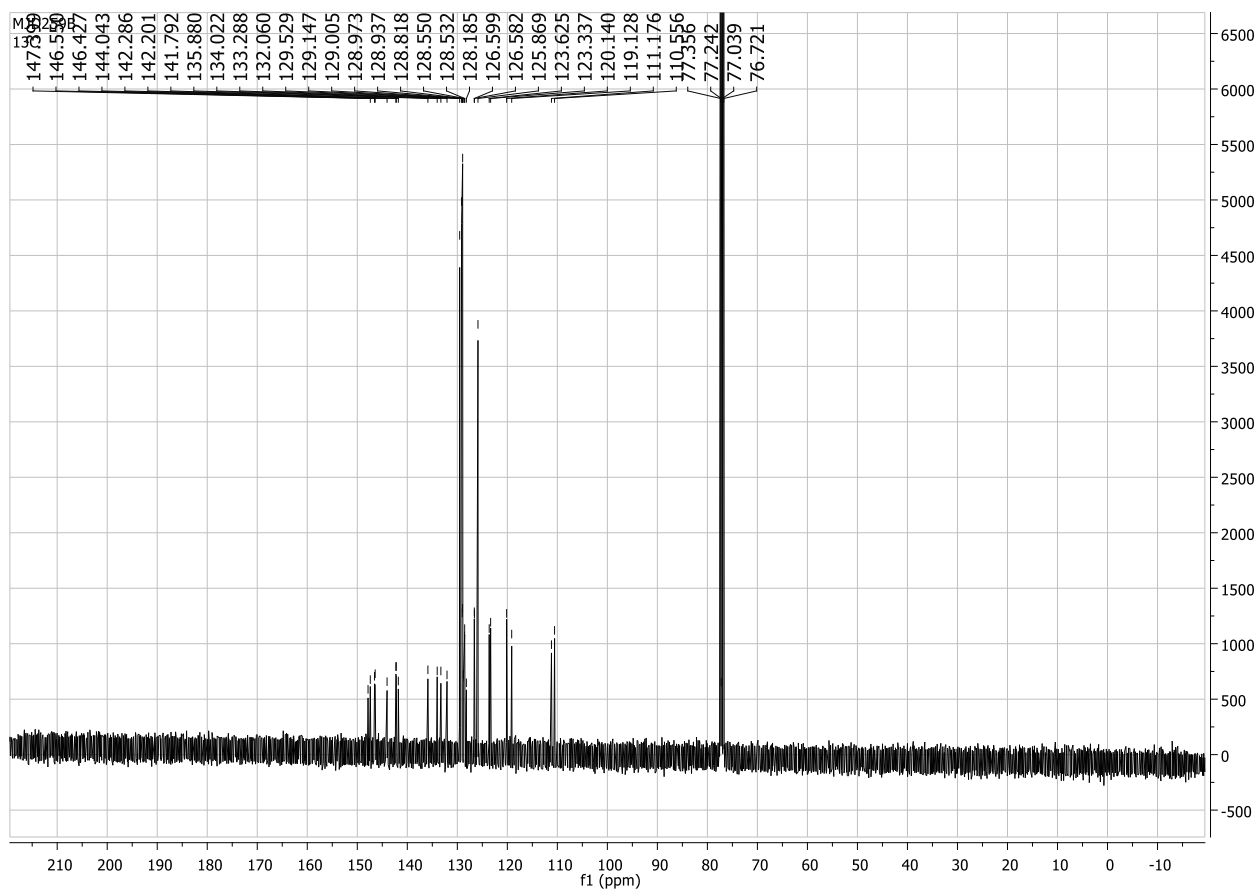
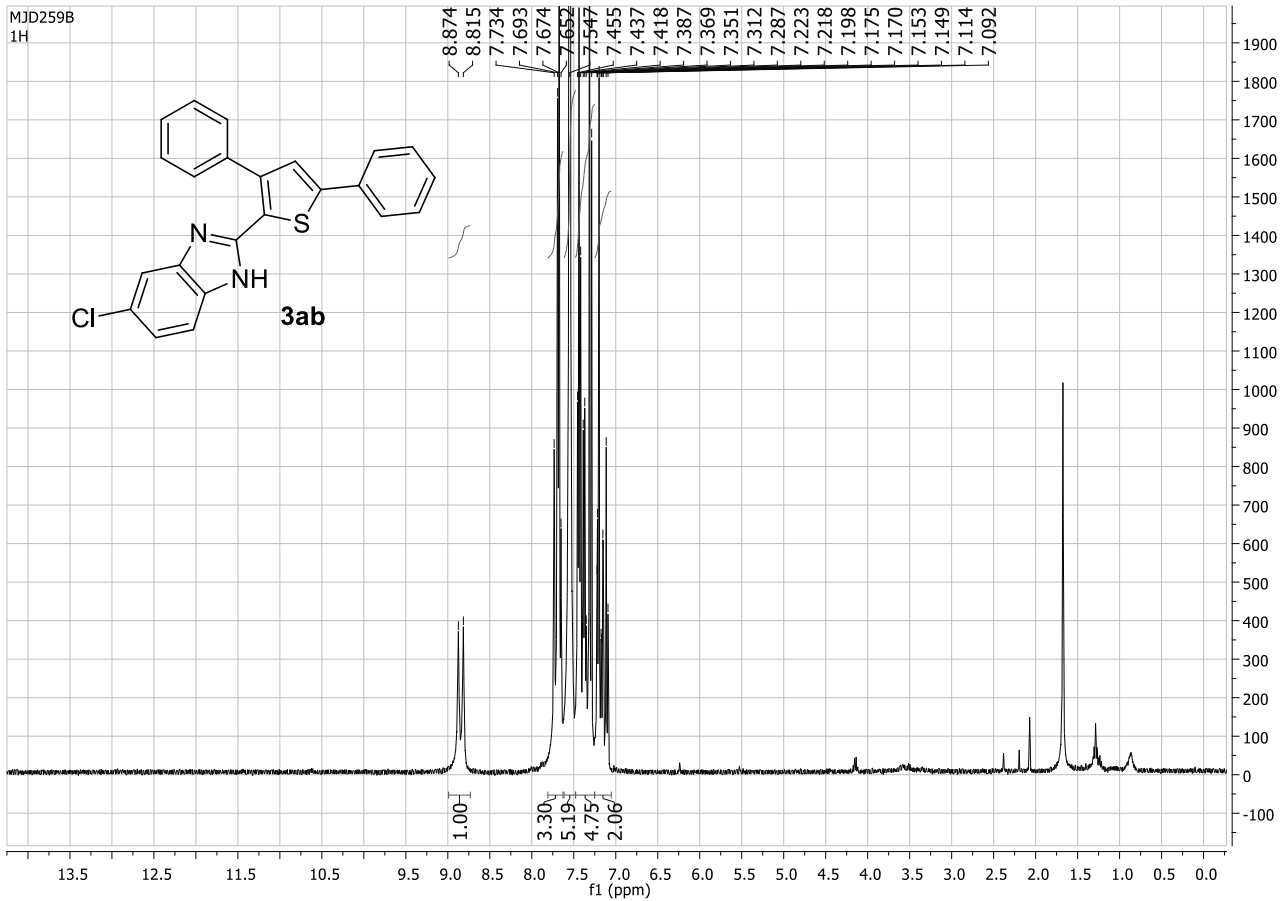
E-mail: inga.cikotiene@chgf.vu.lt

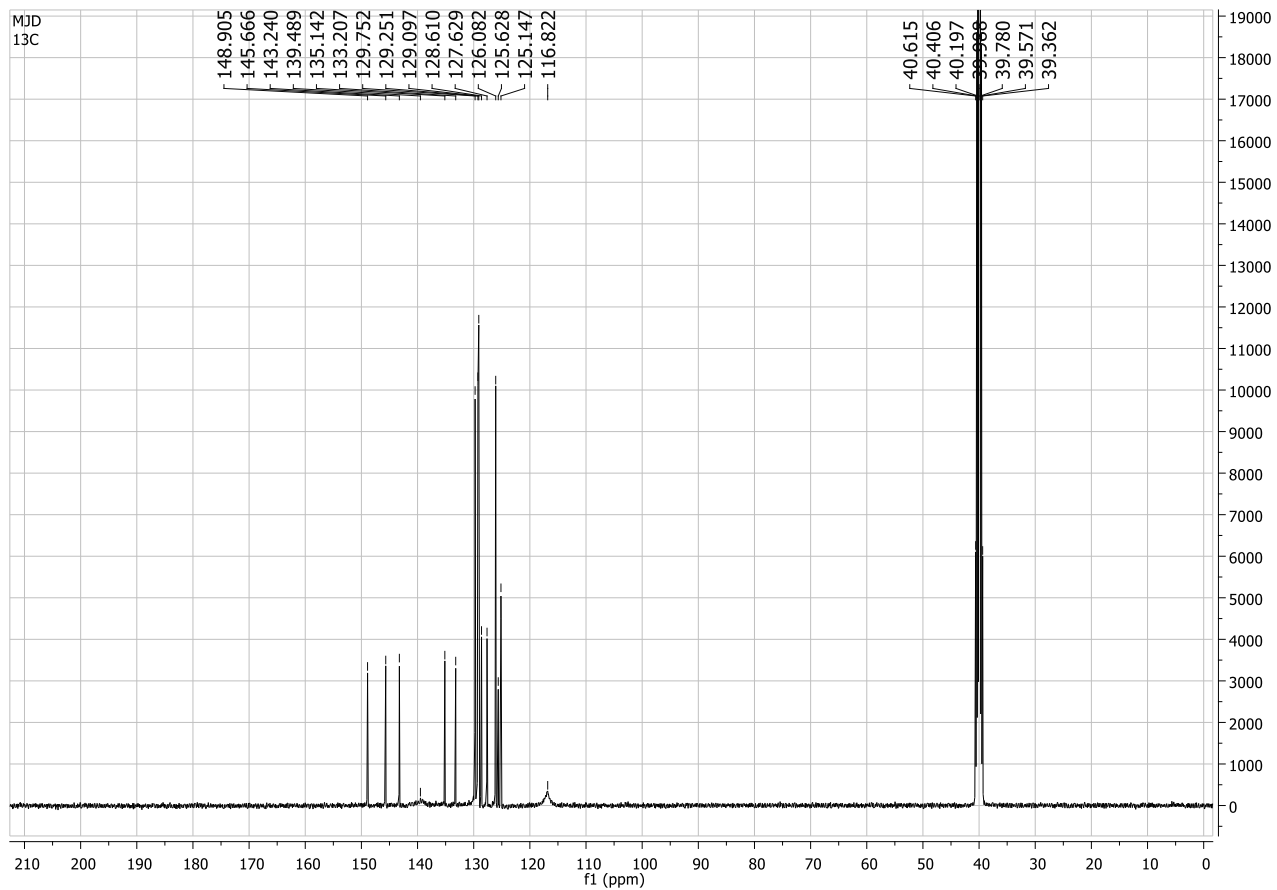
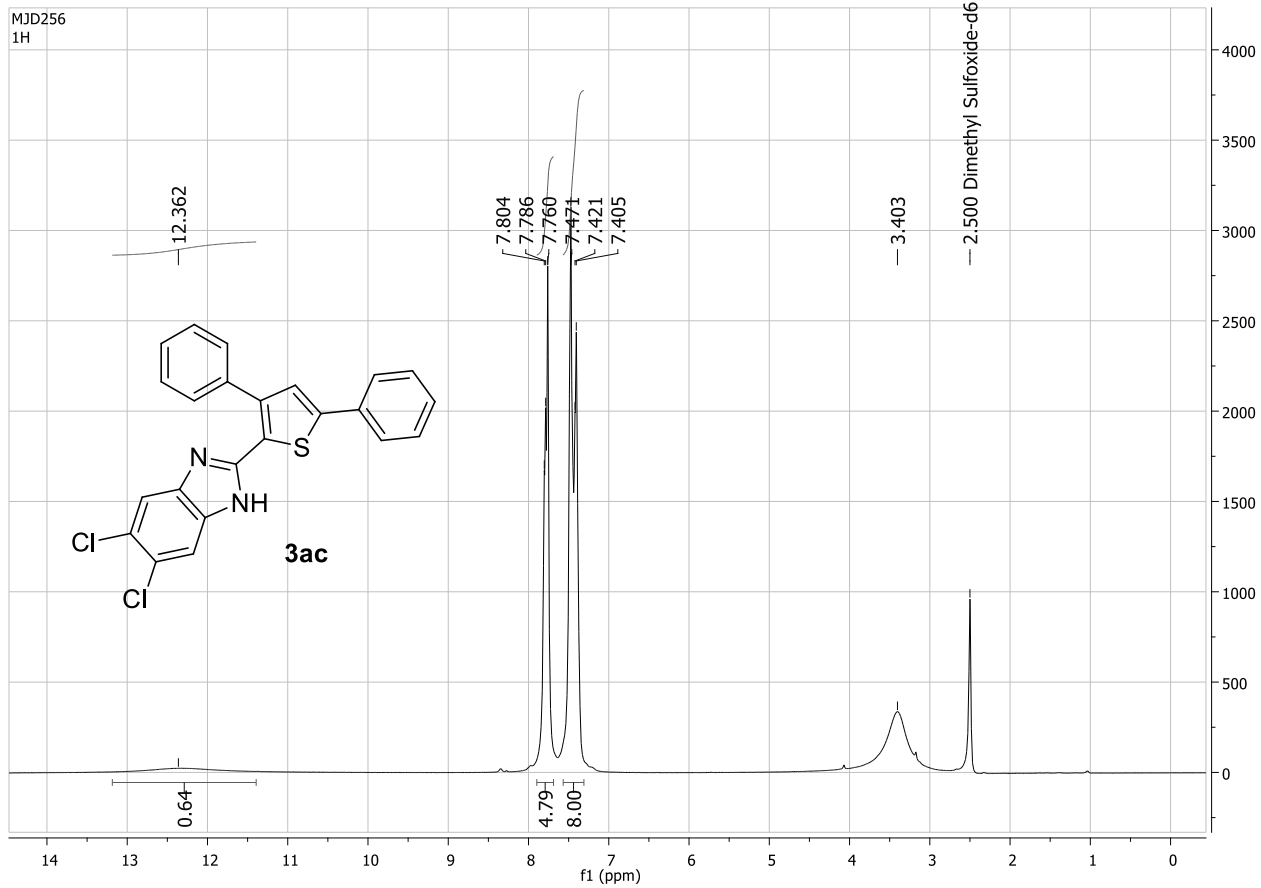
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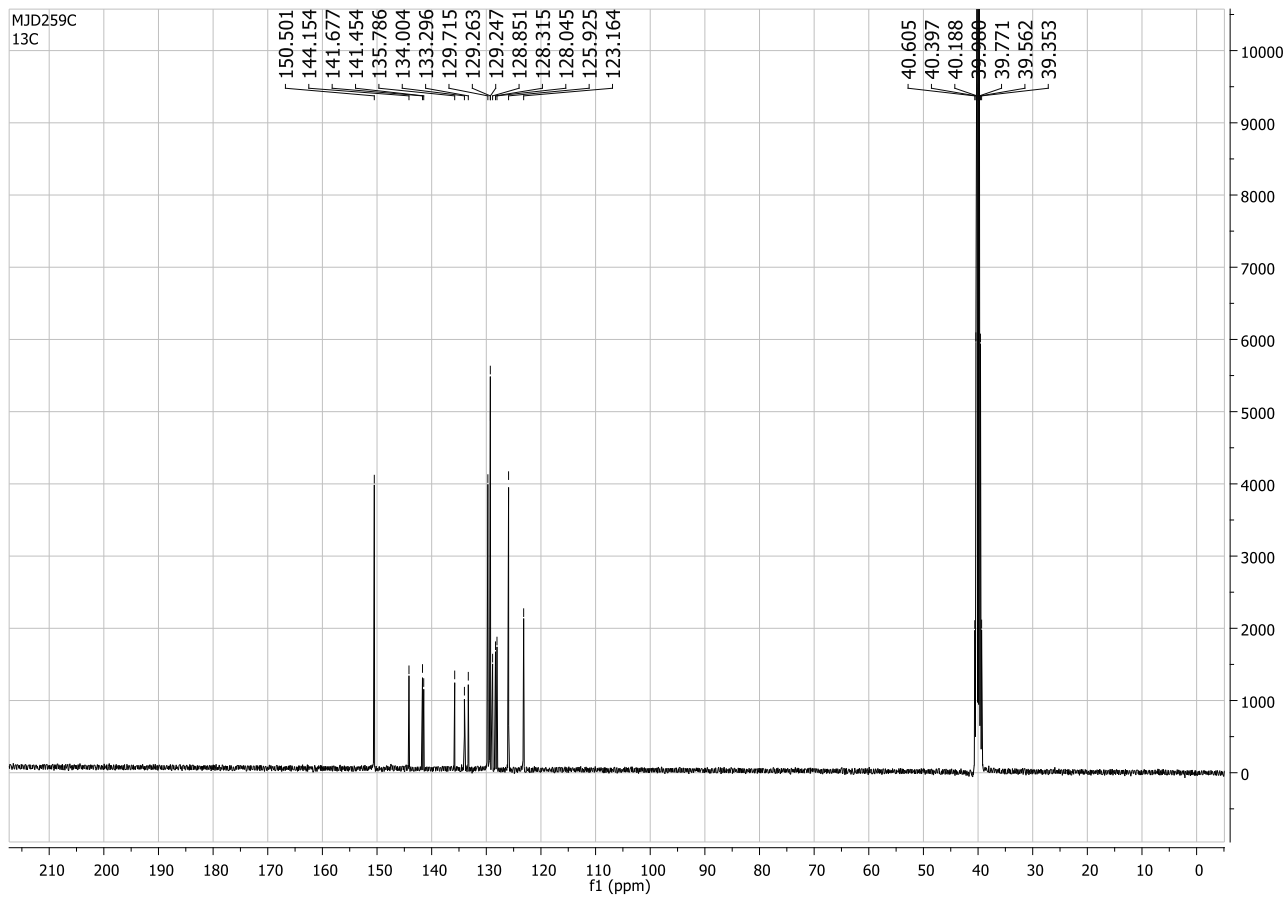
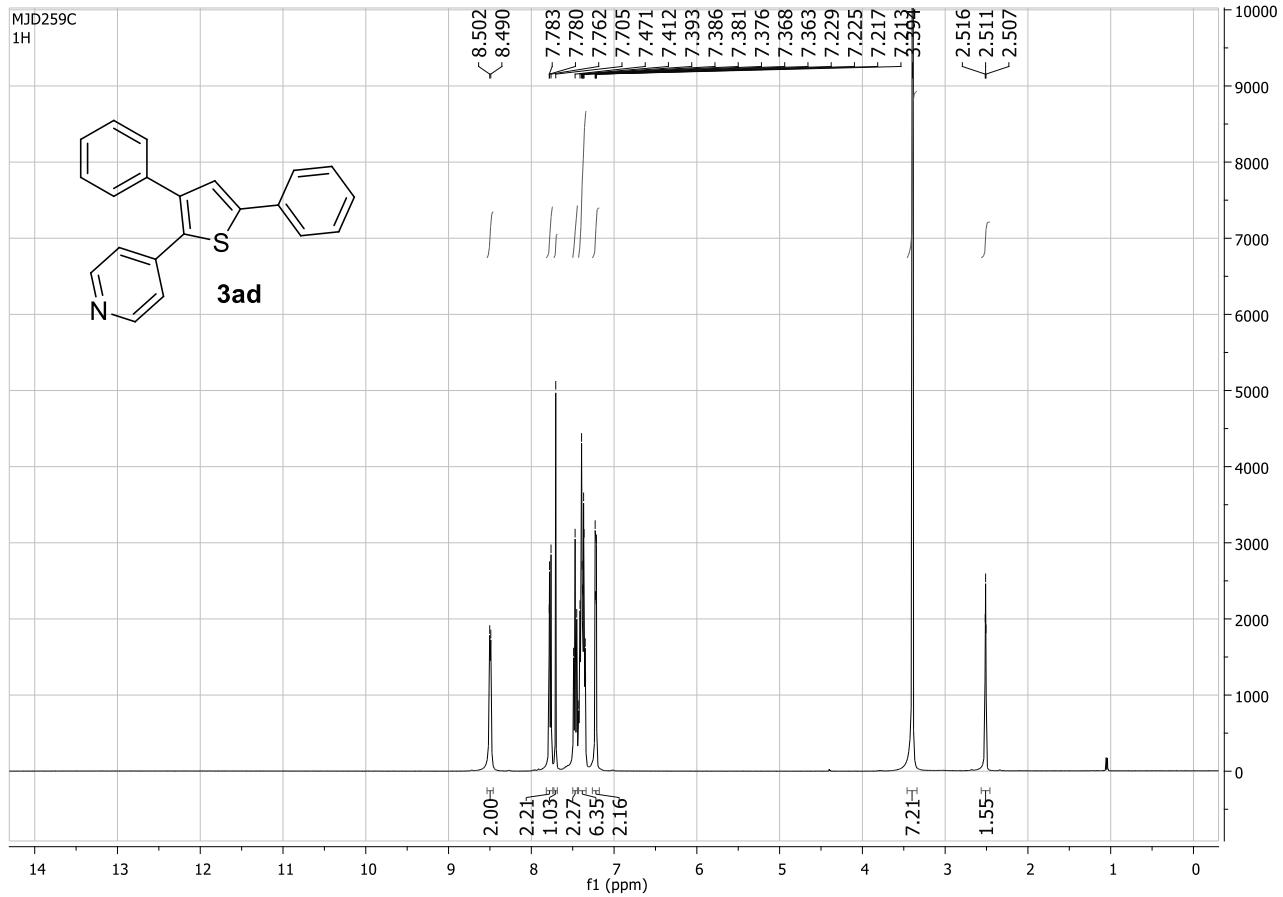
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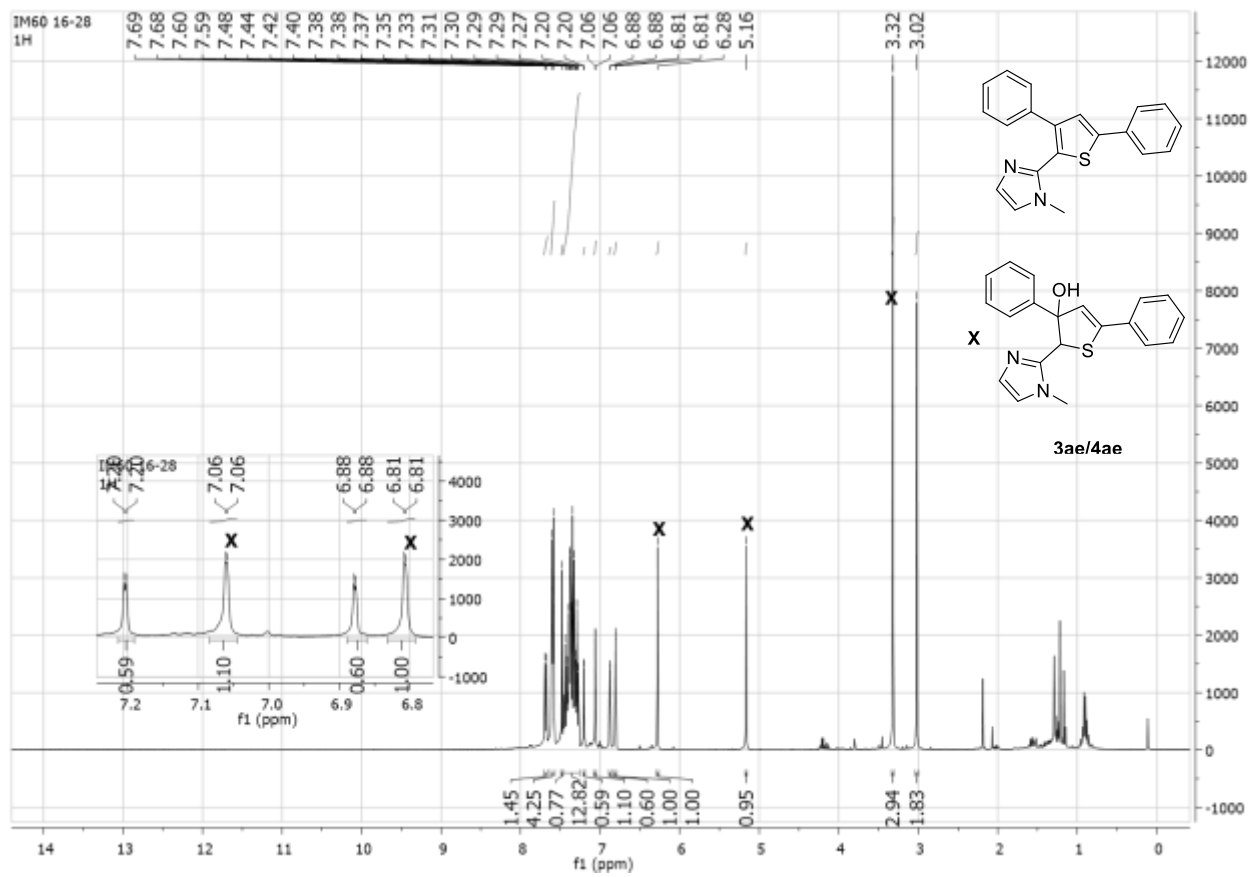
# Spectroscopic Data

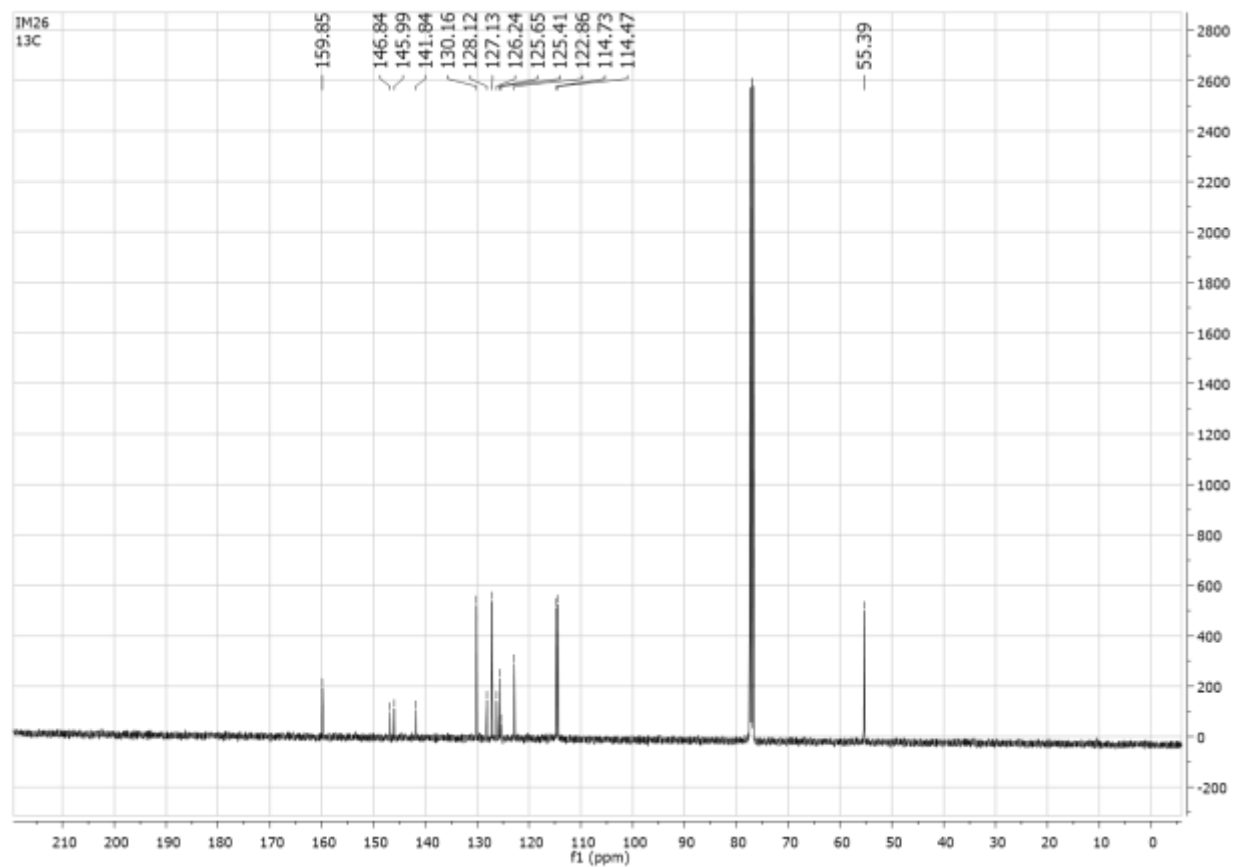
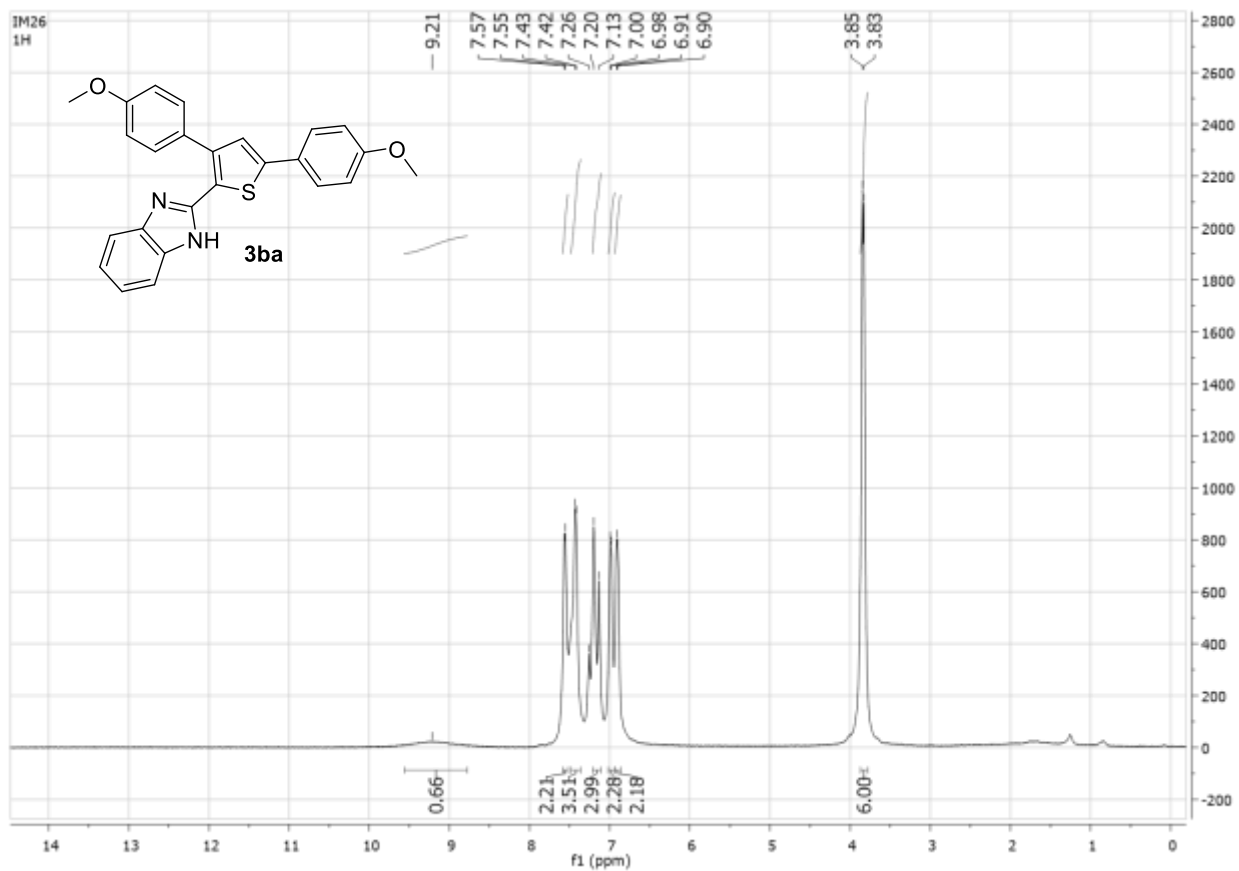


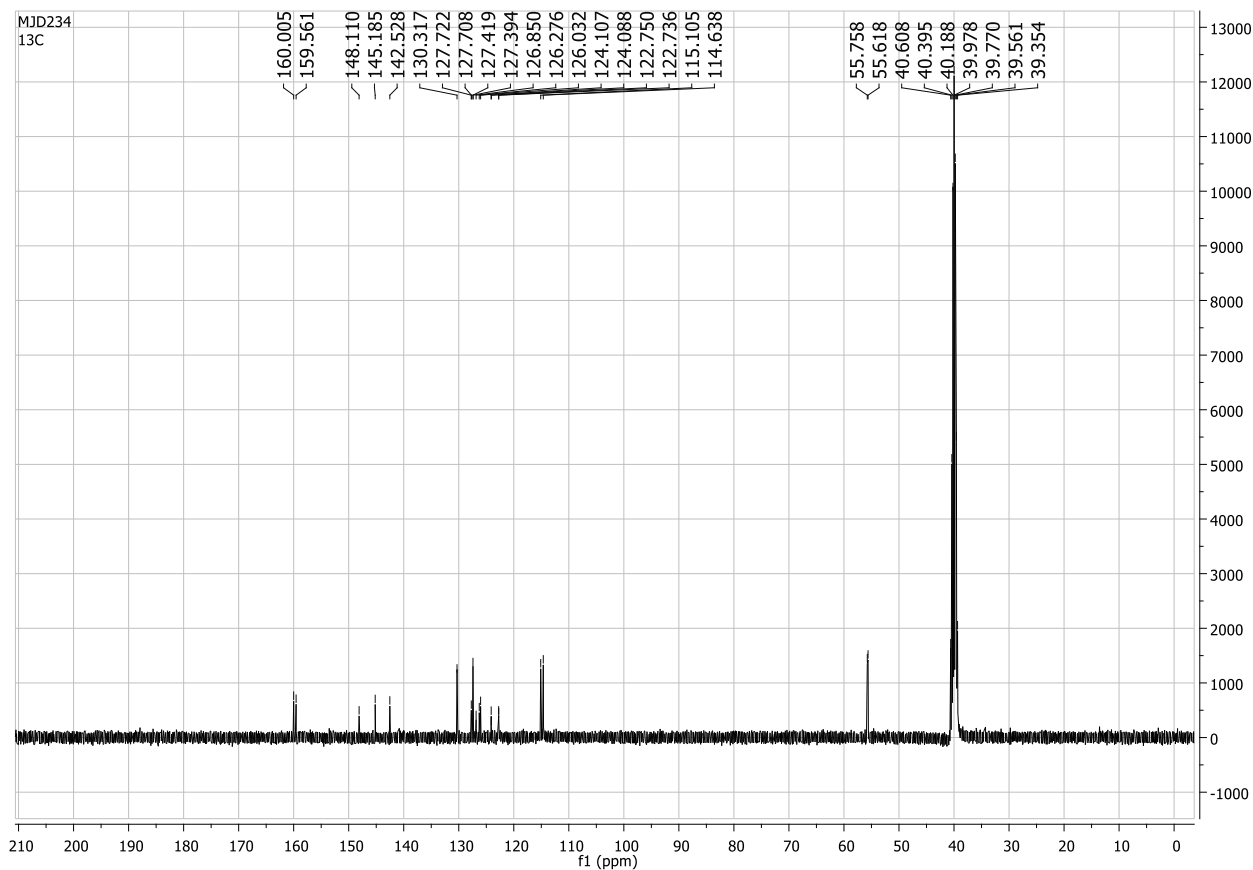
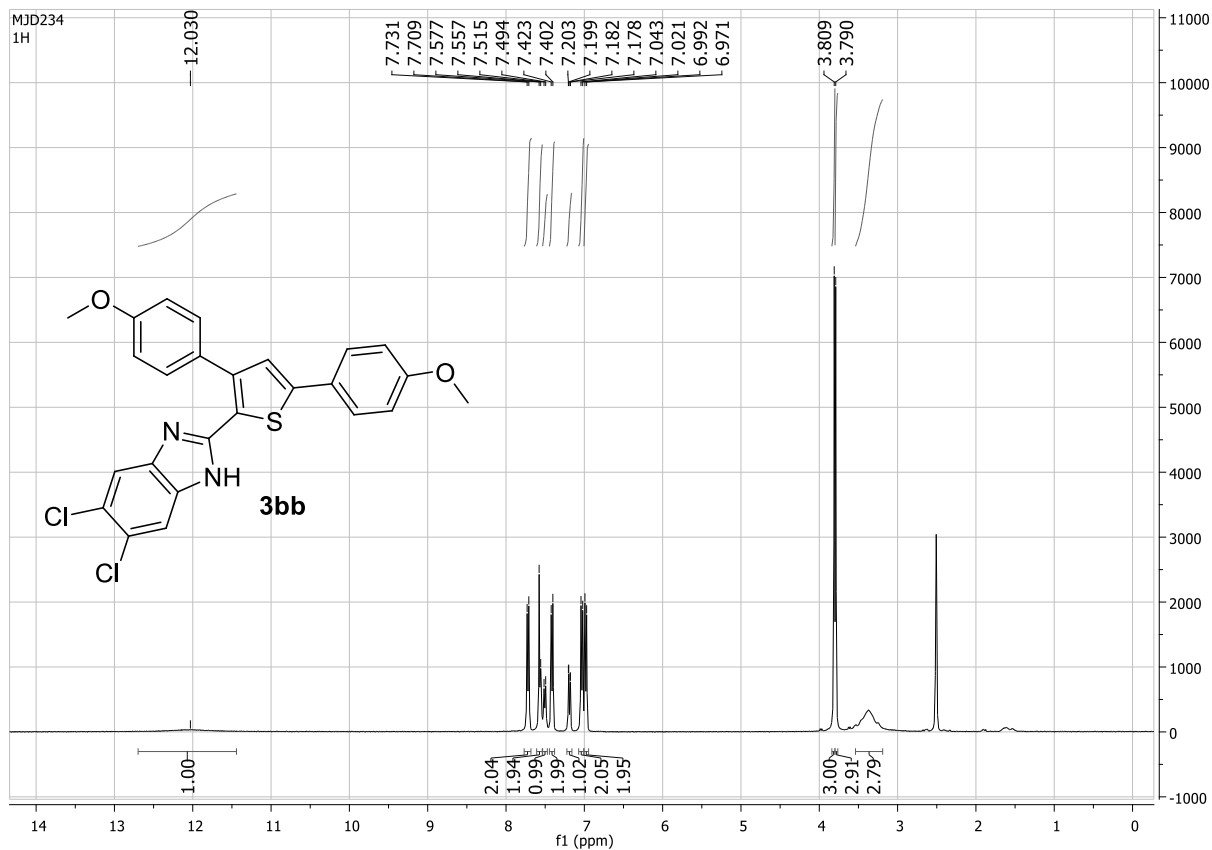


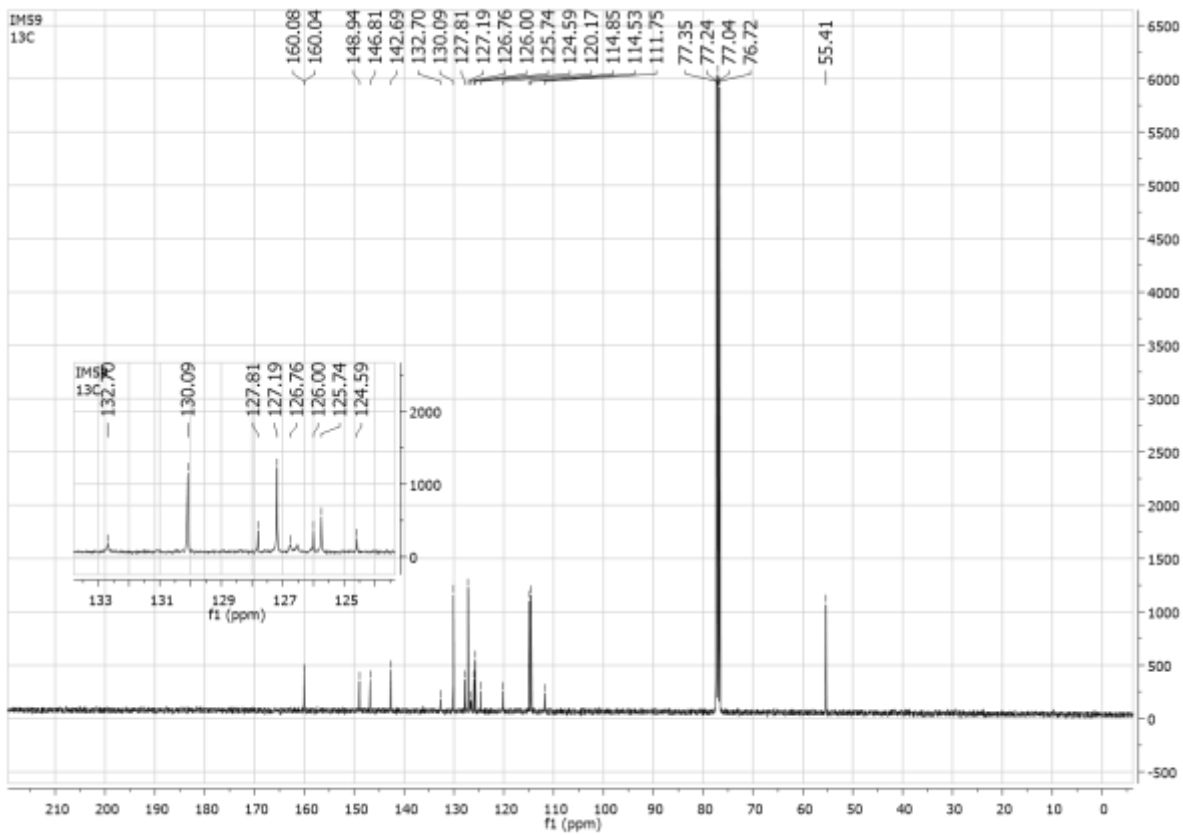
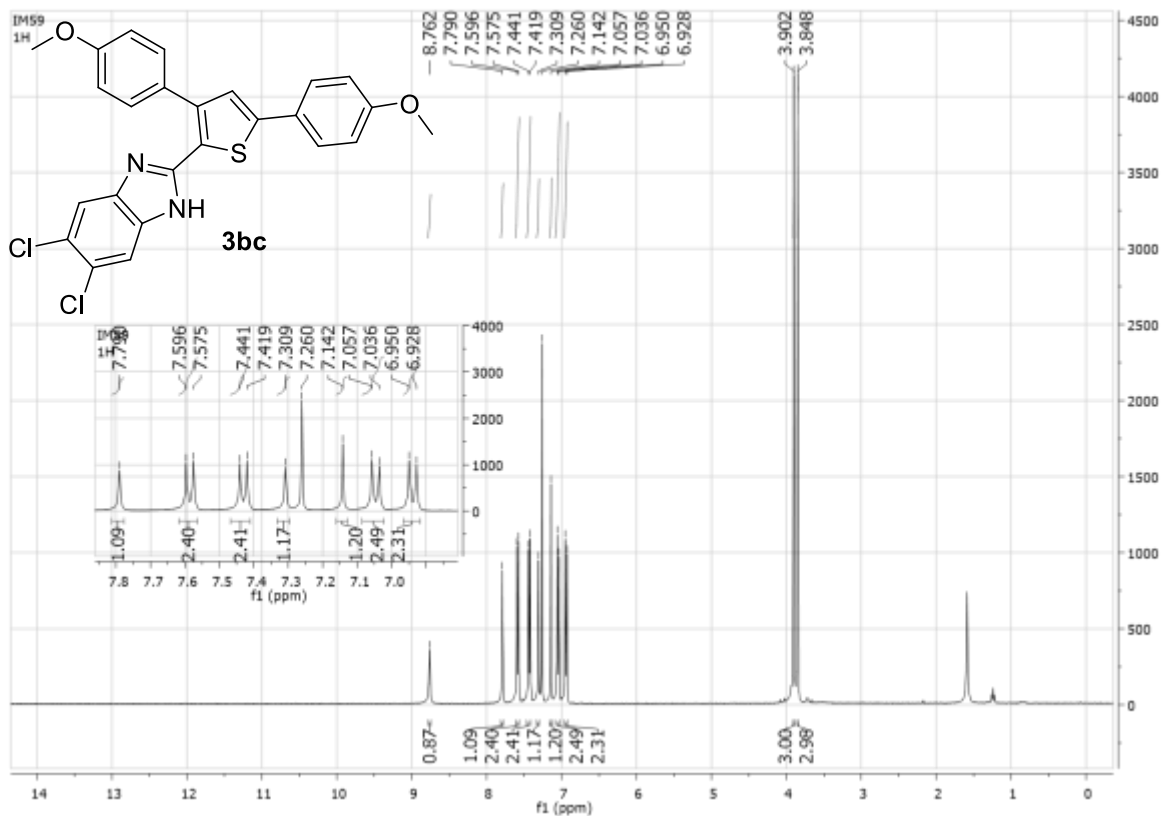


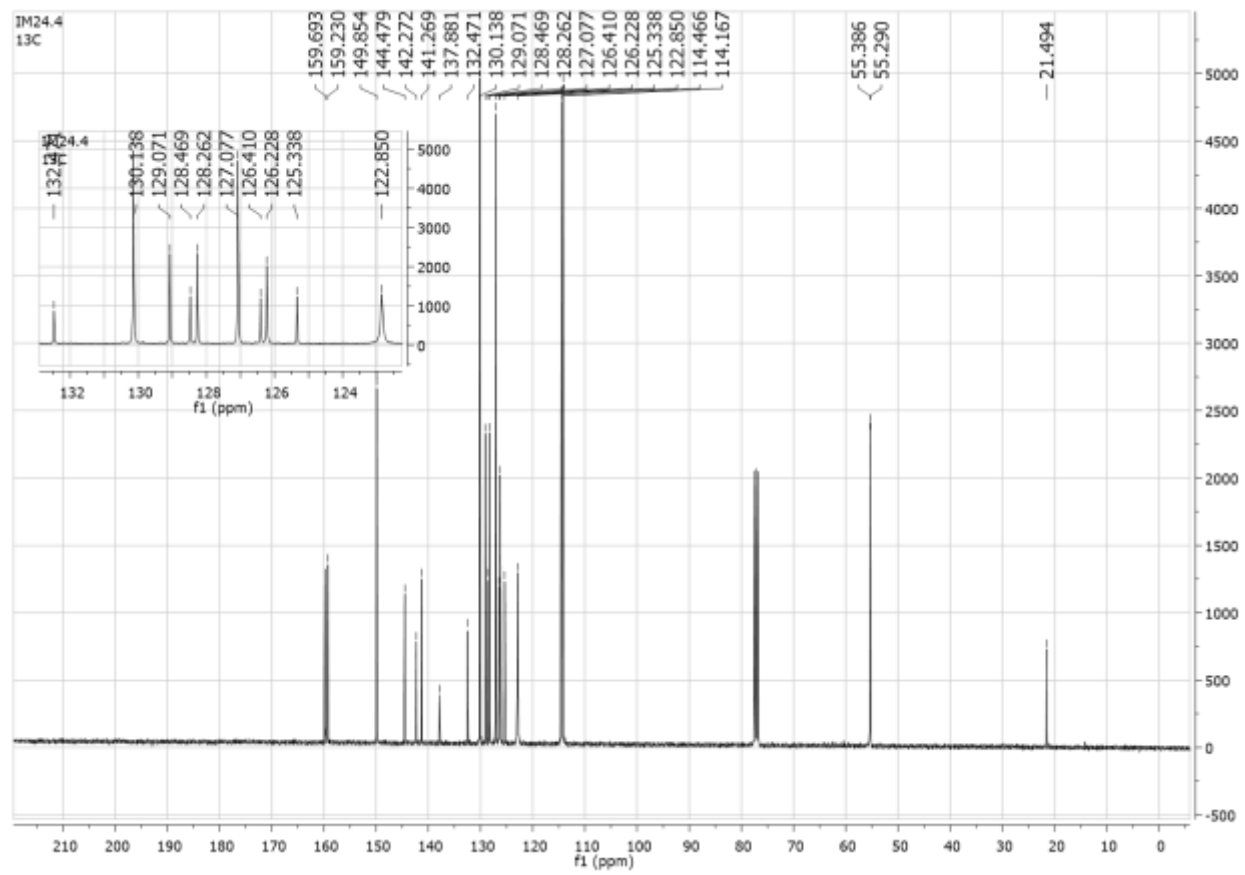
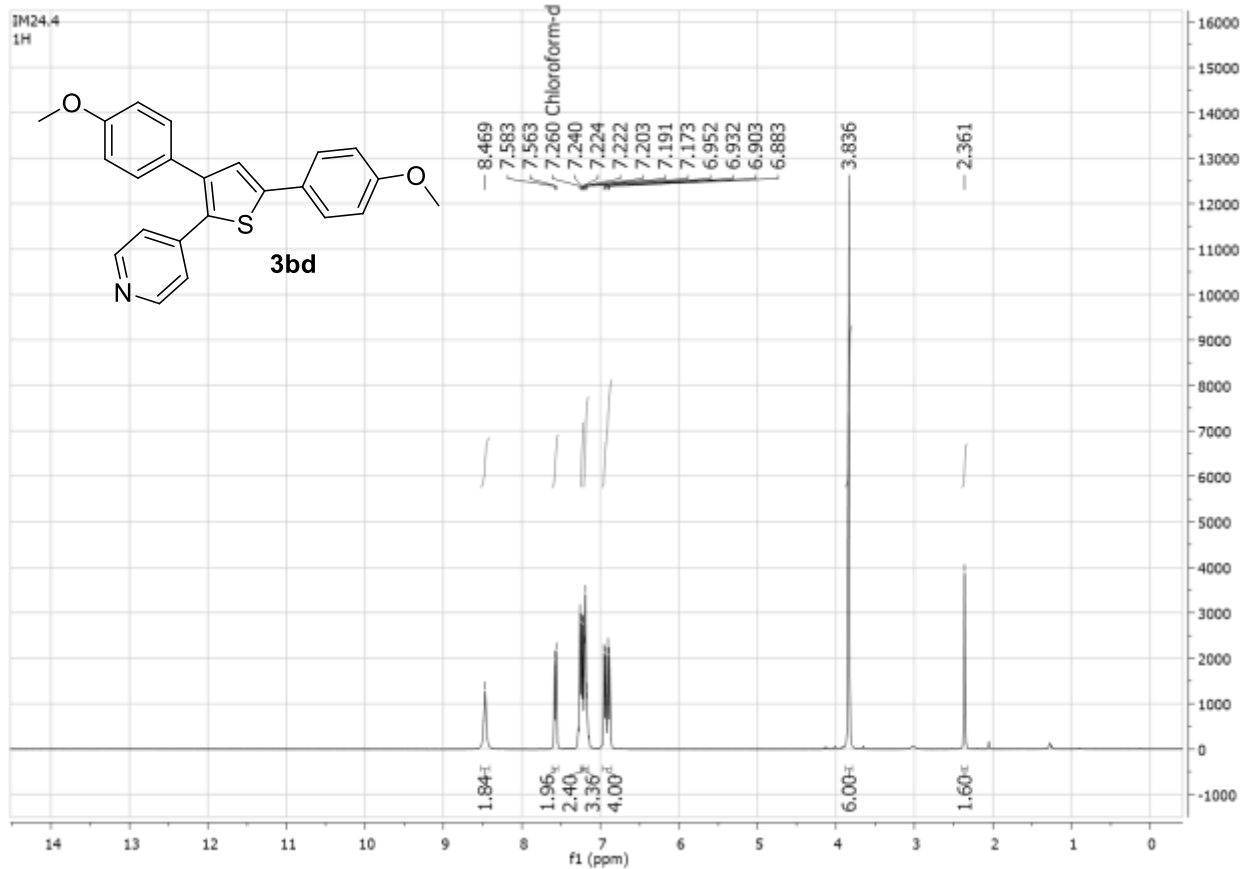


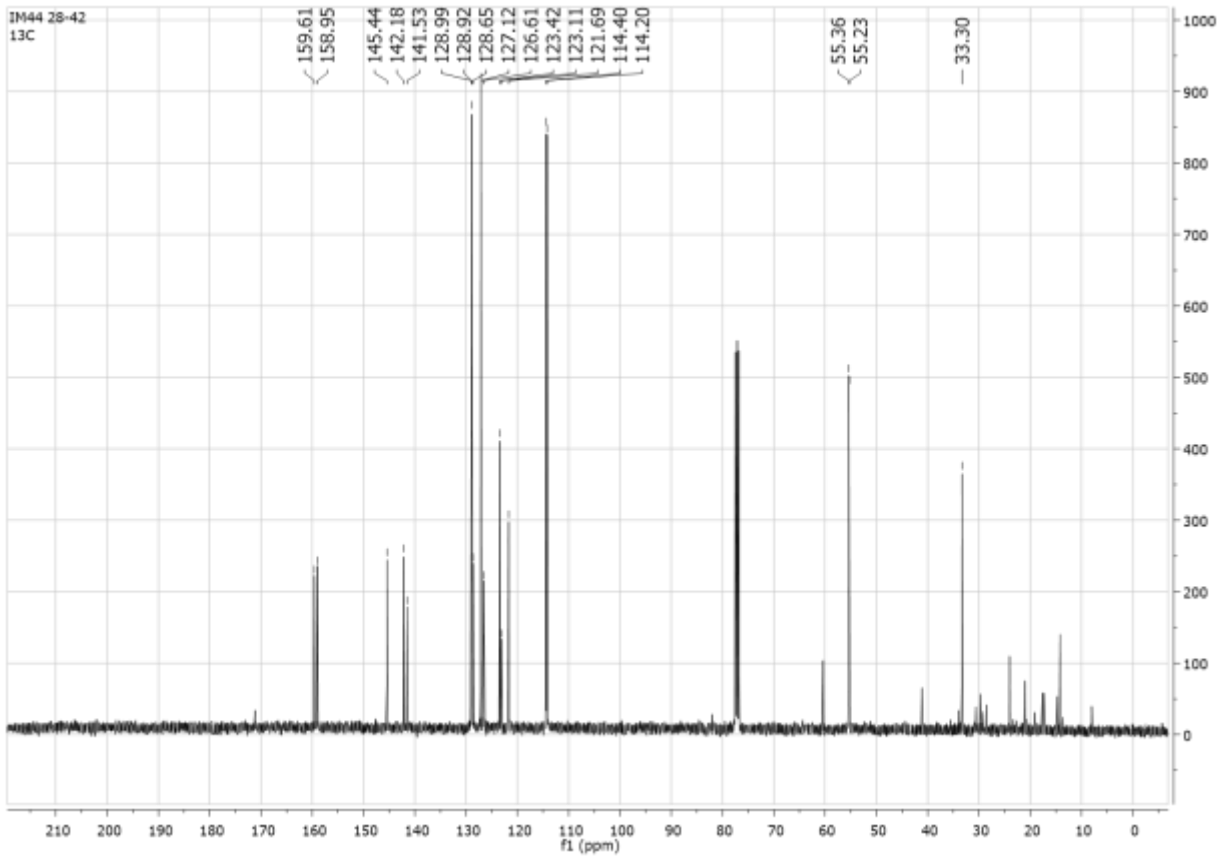
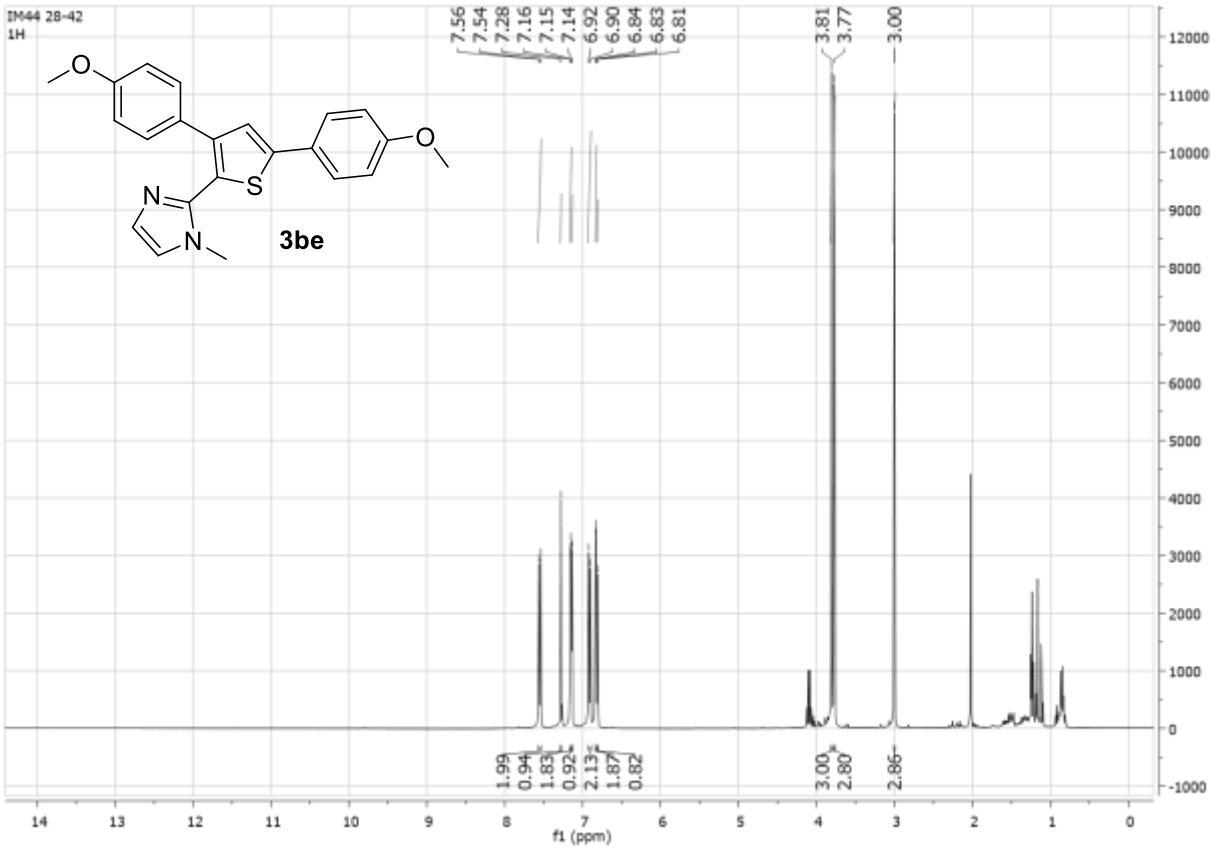


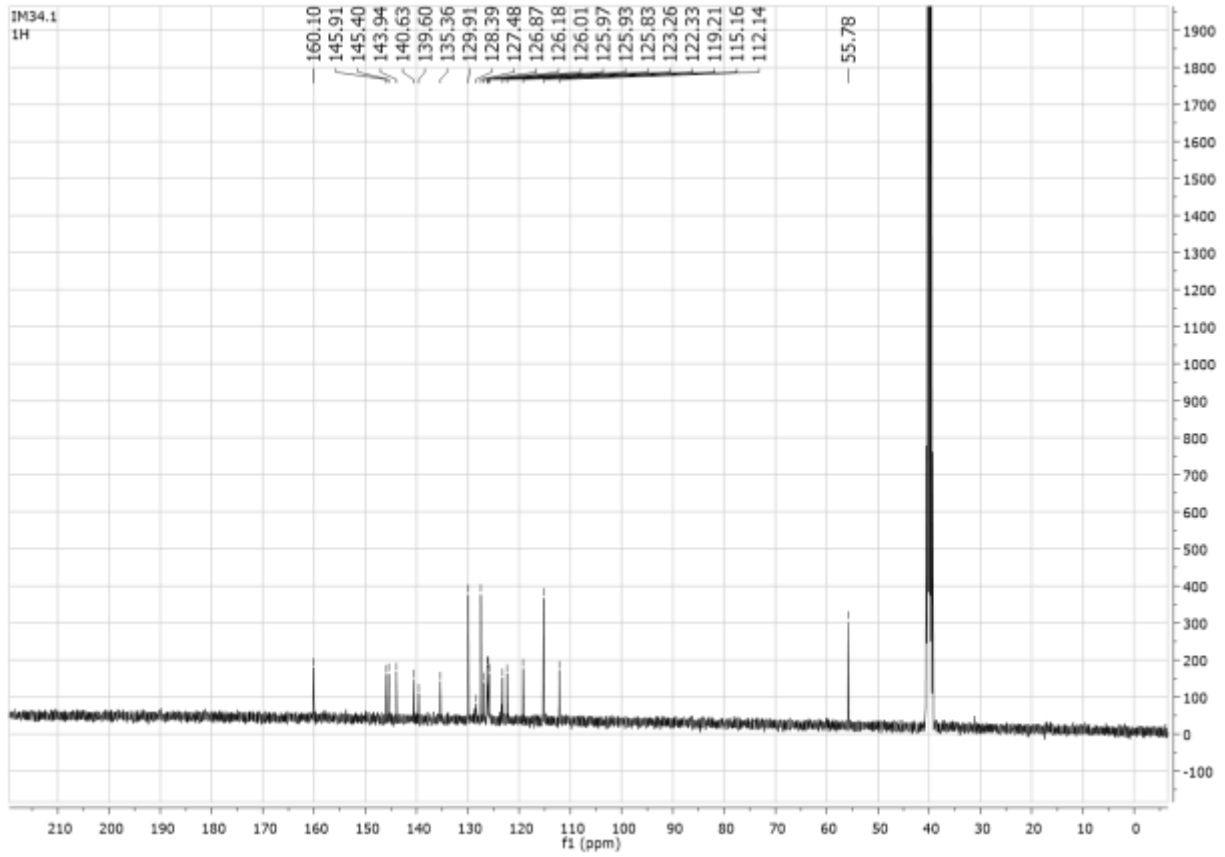
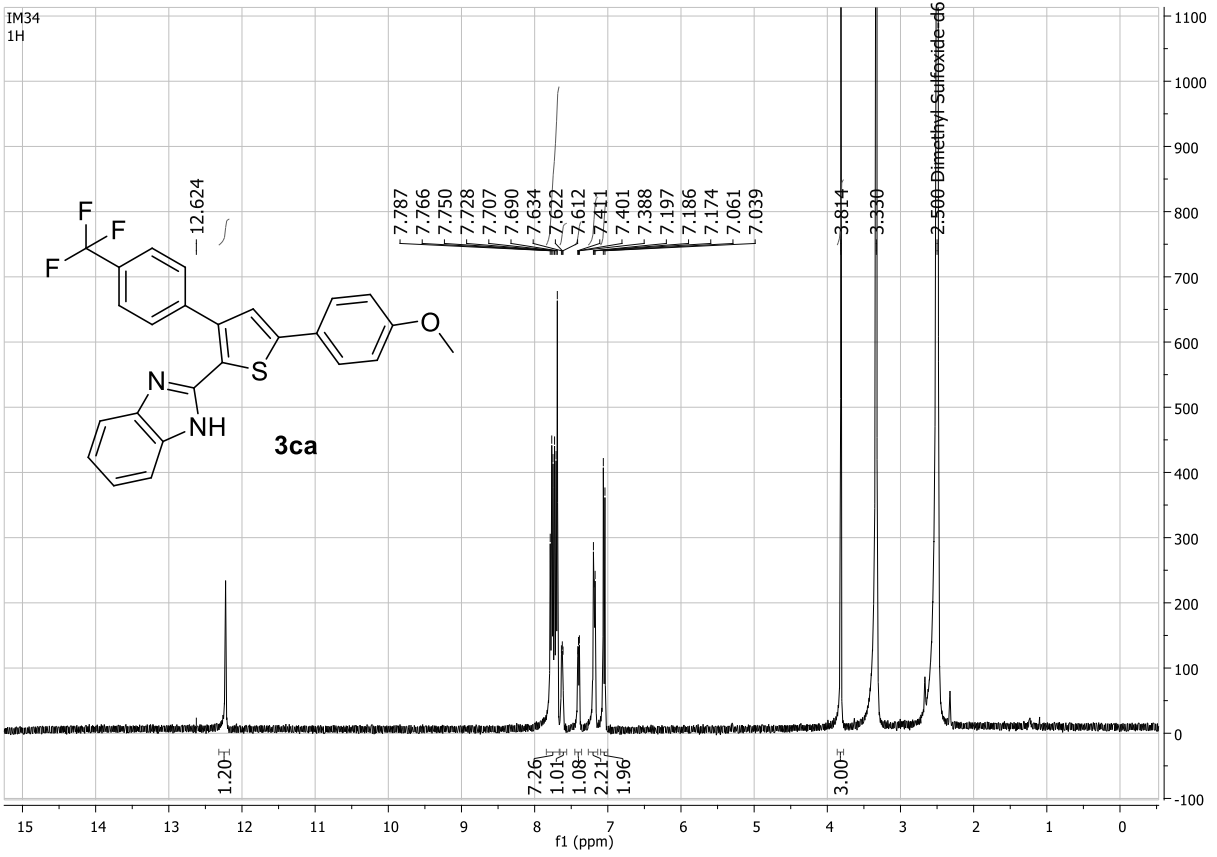


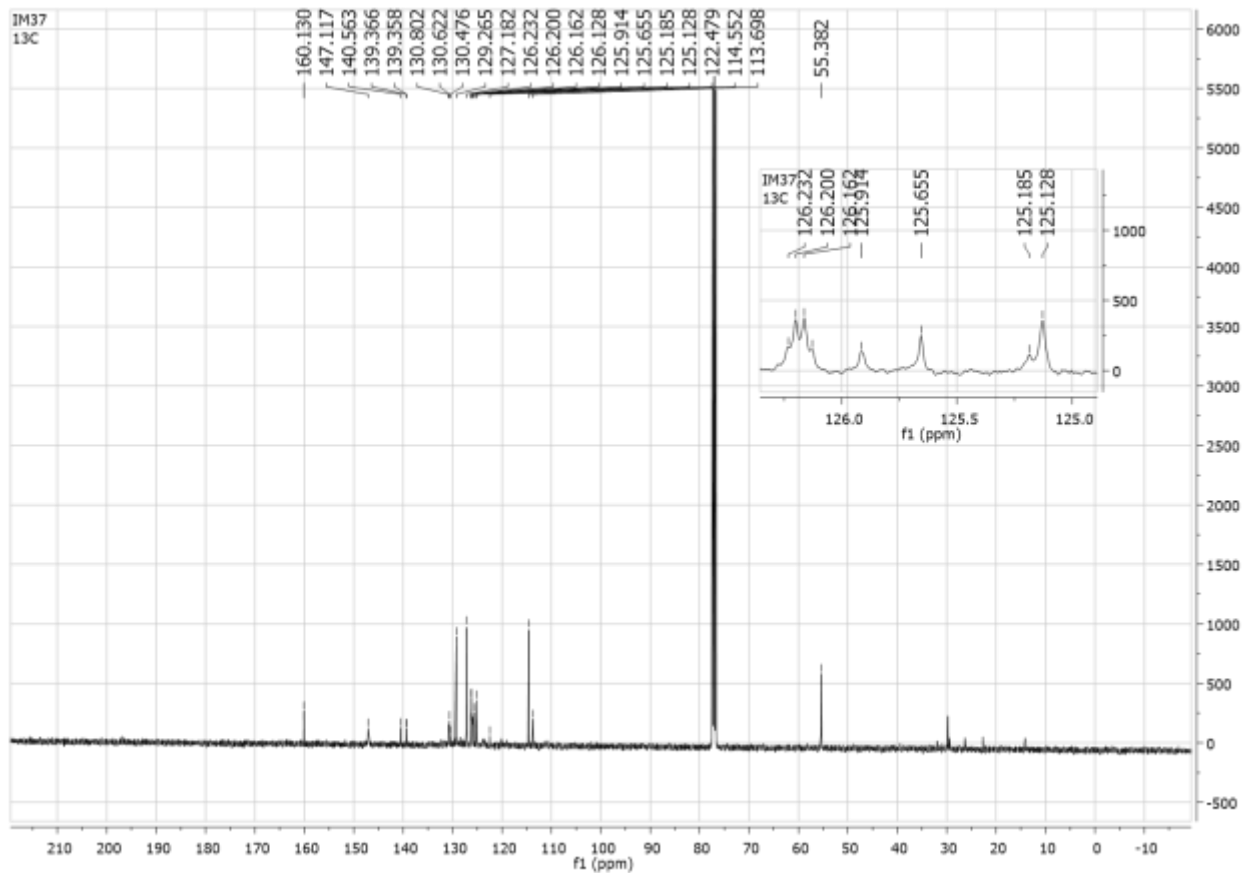
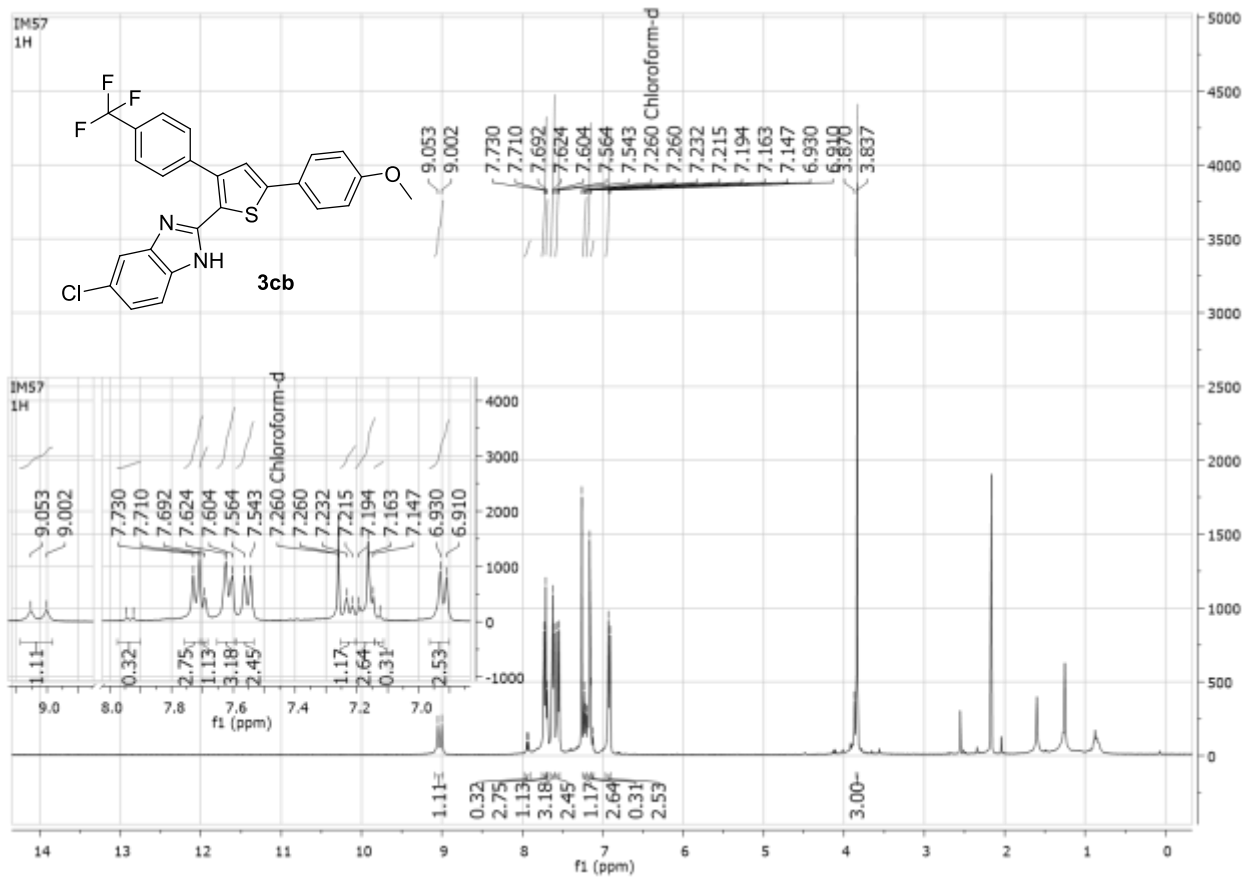


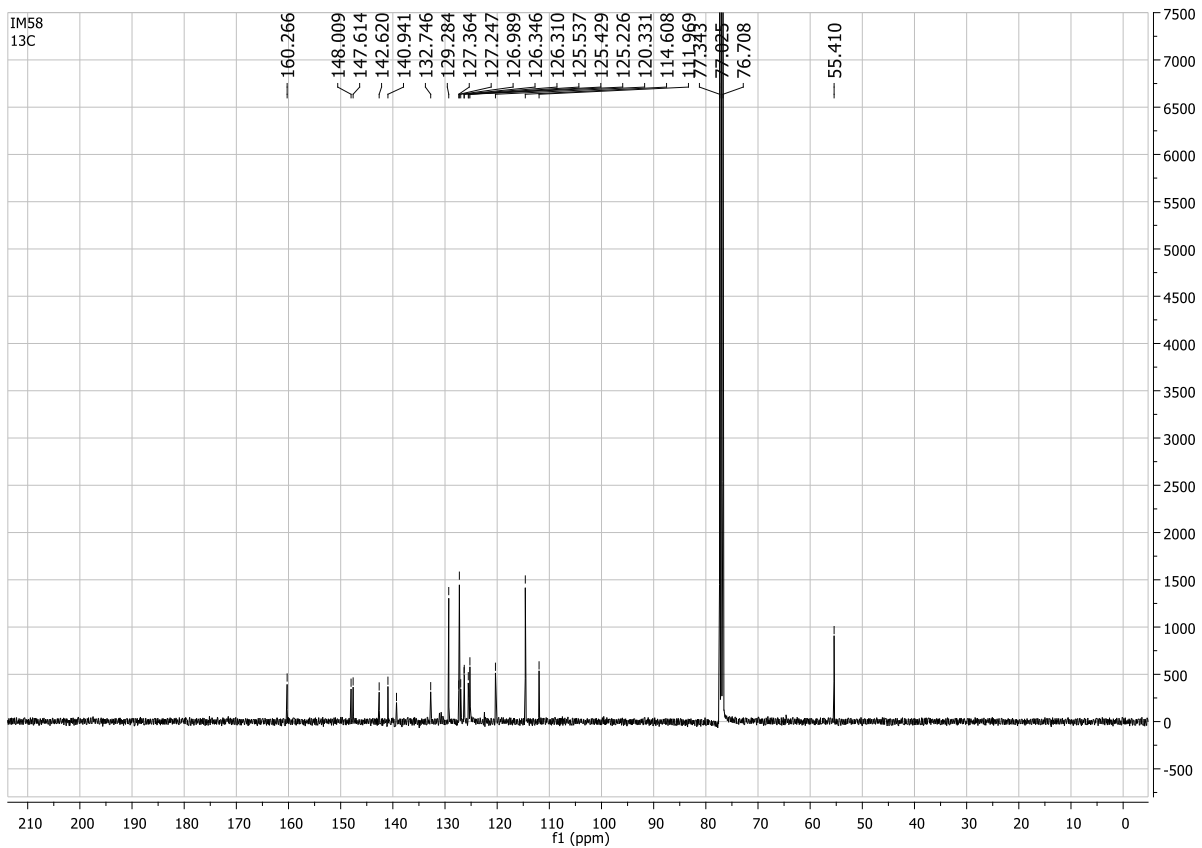
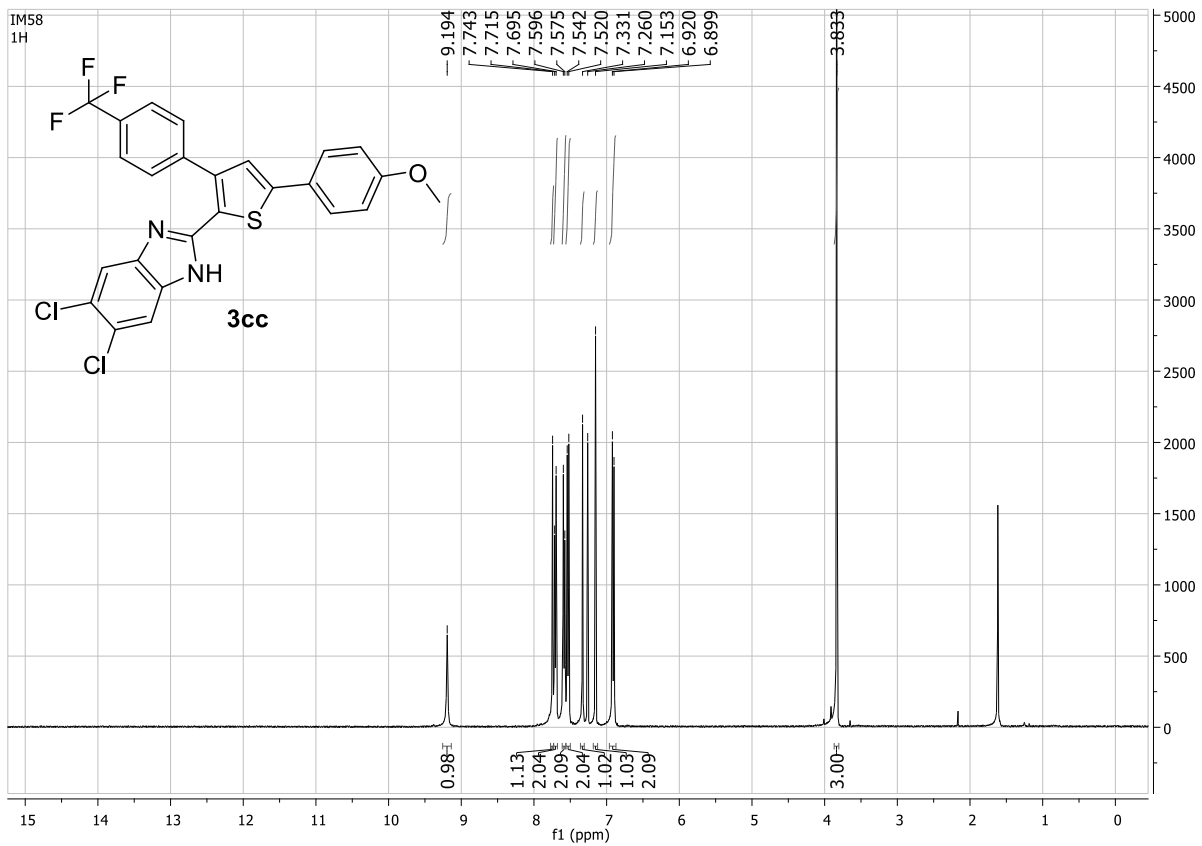


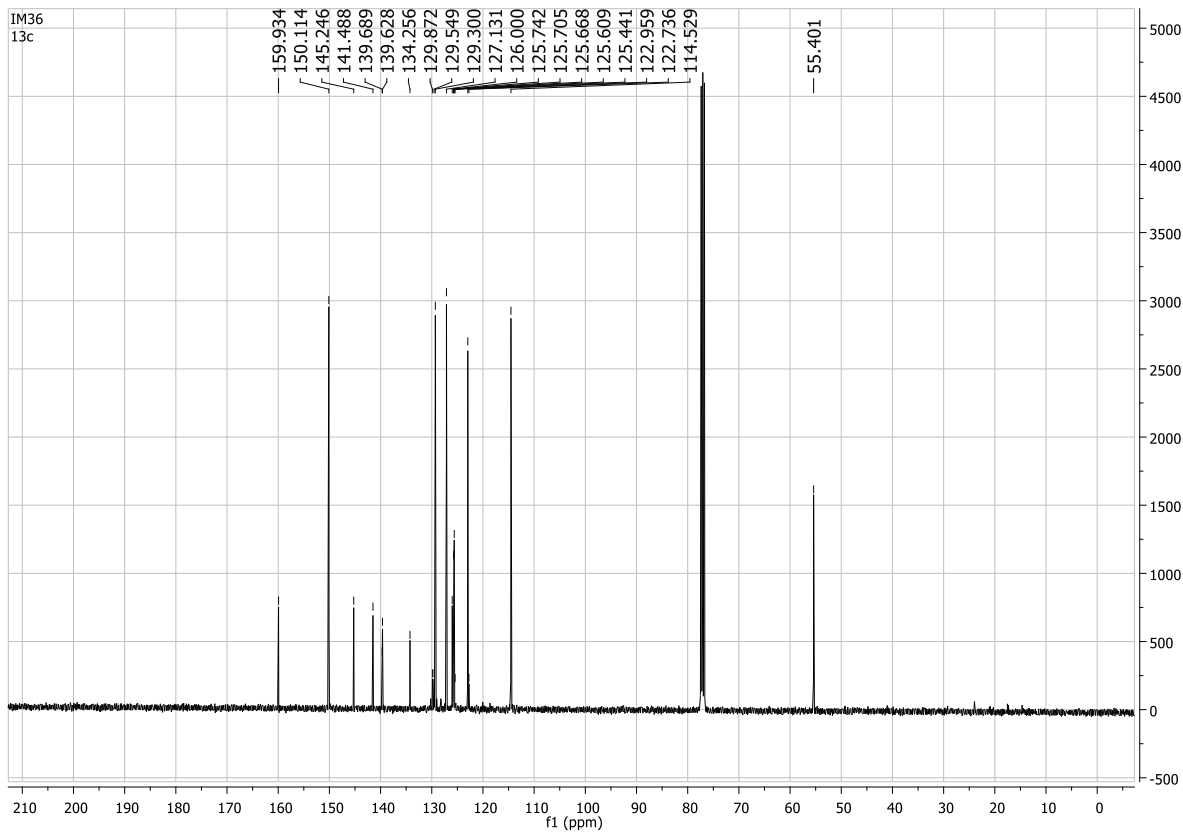
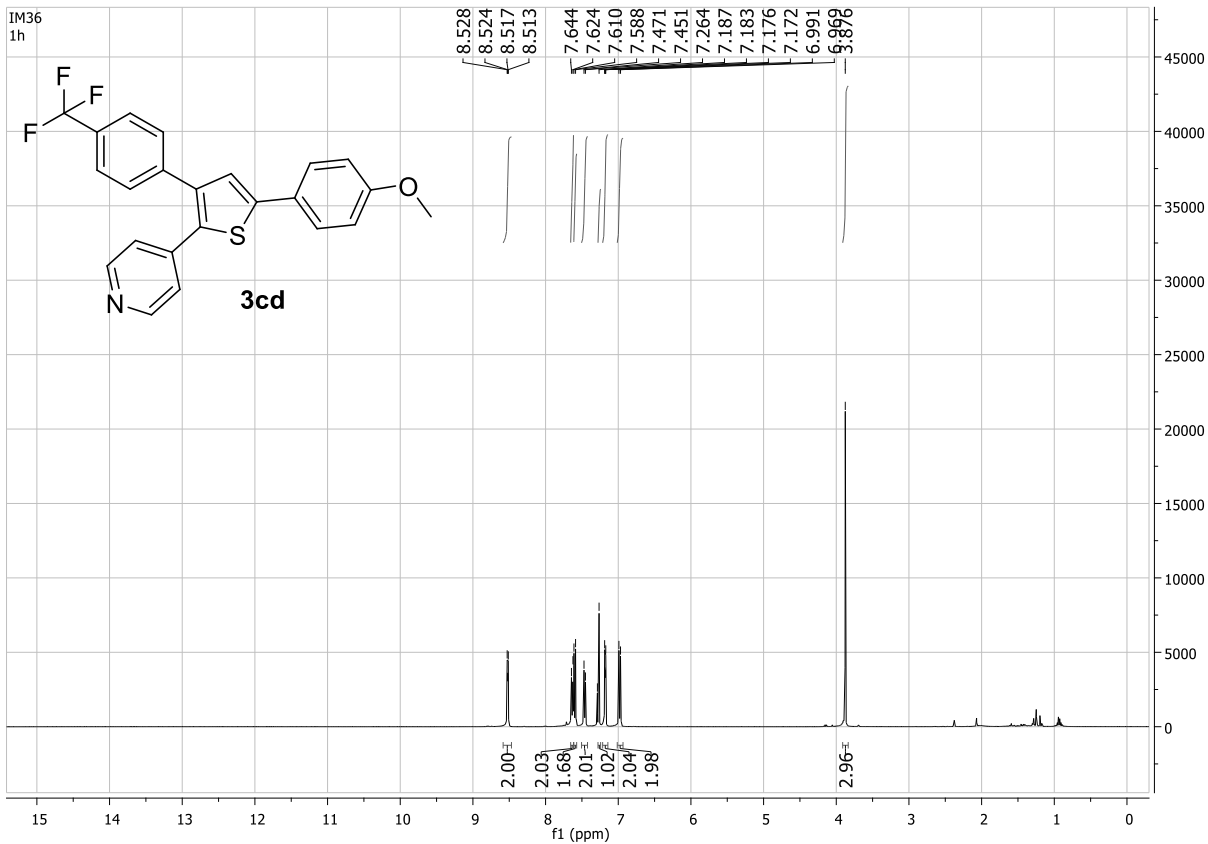


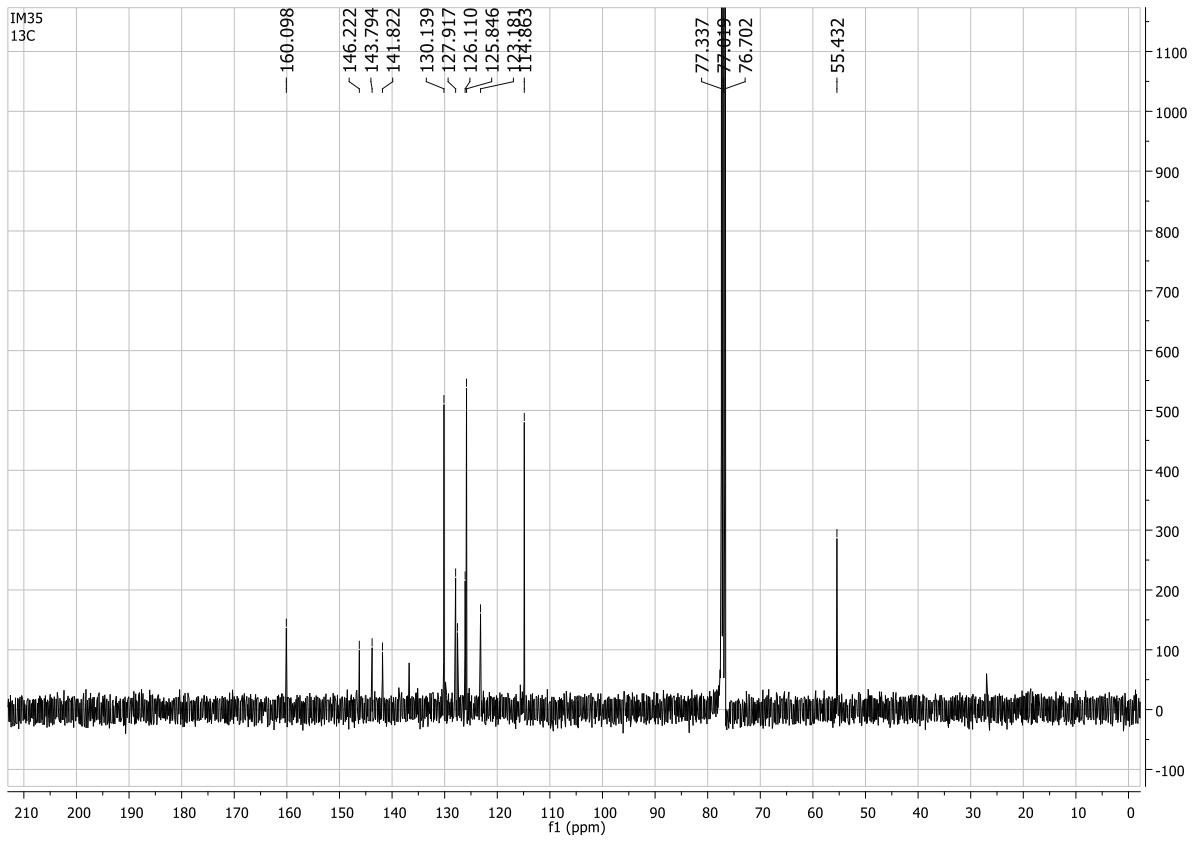
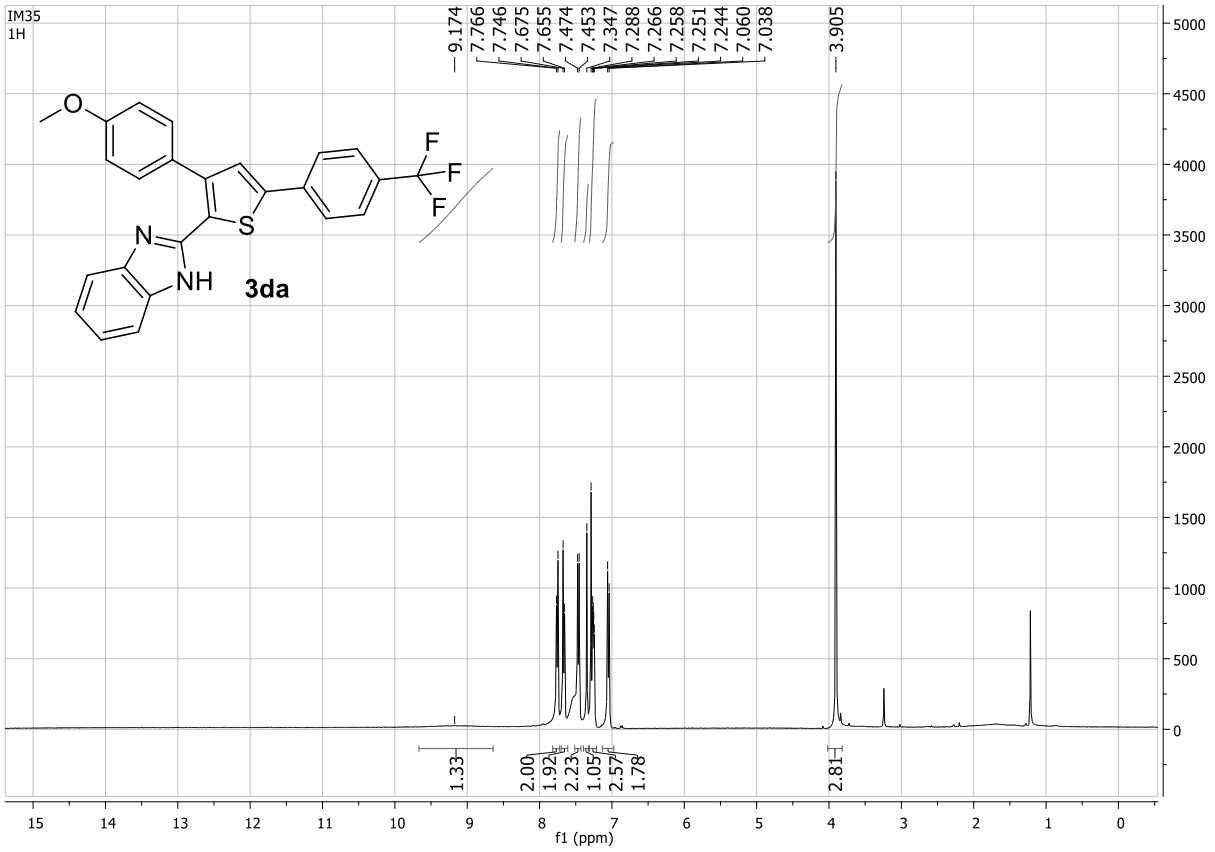


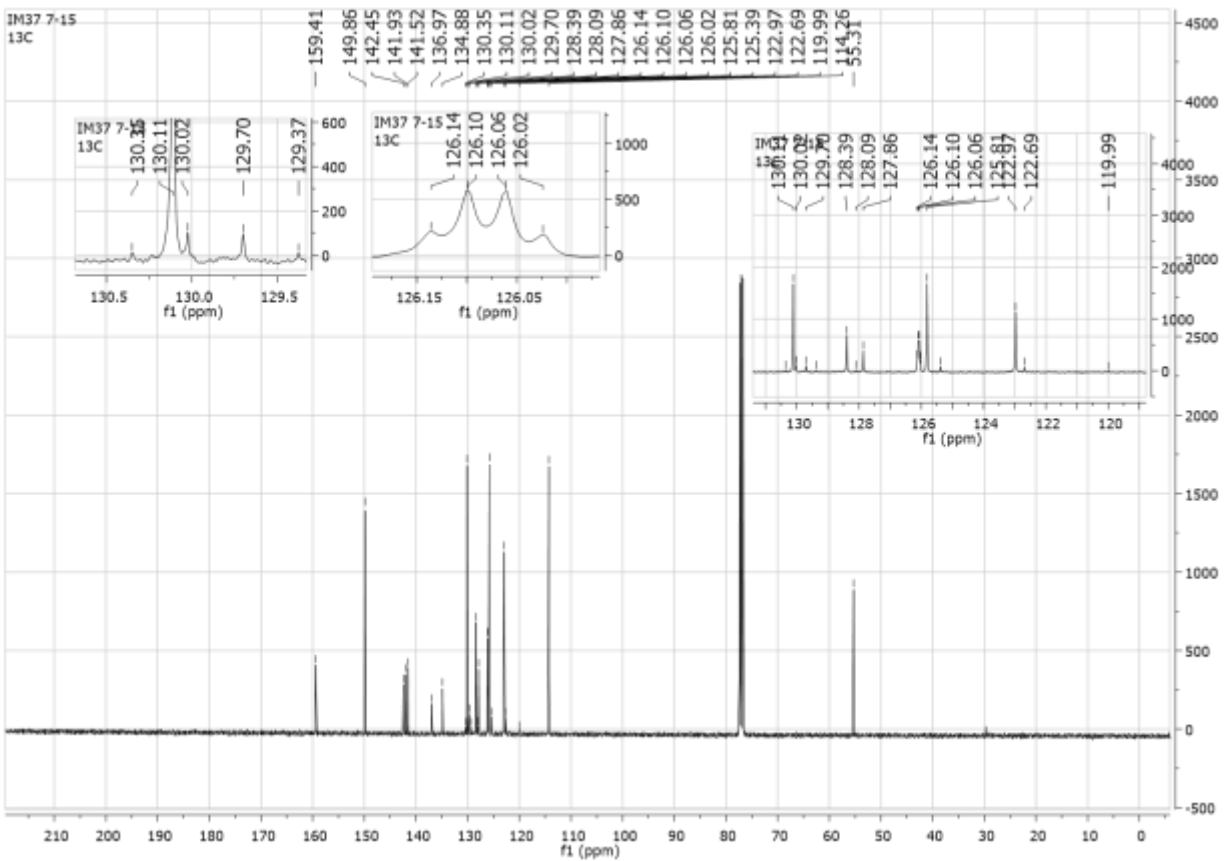
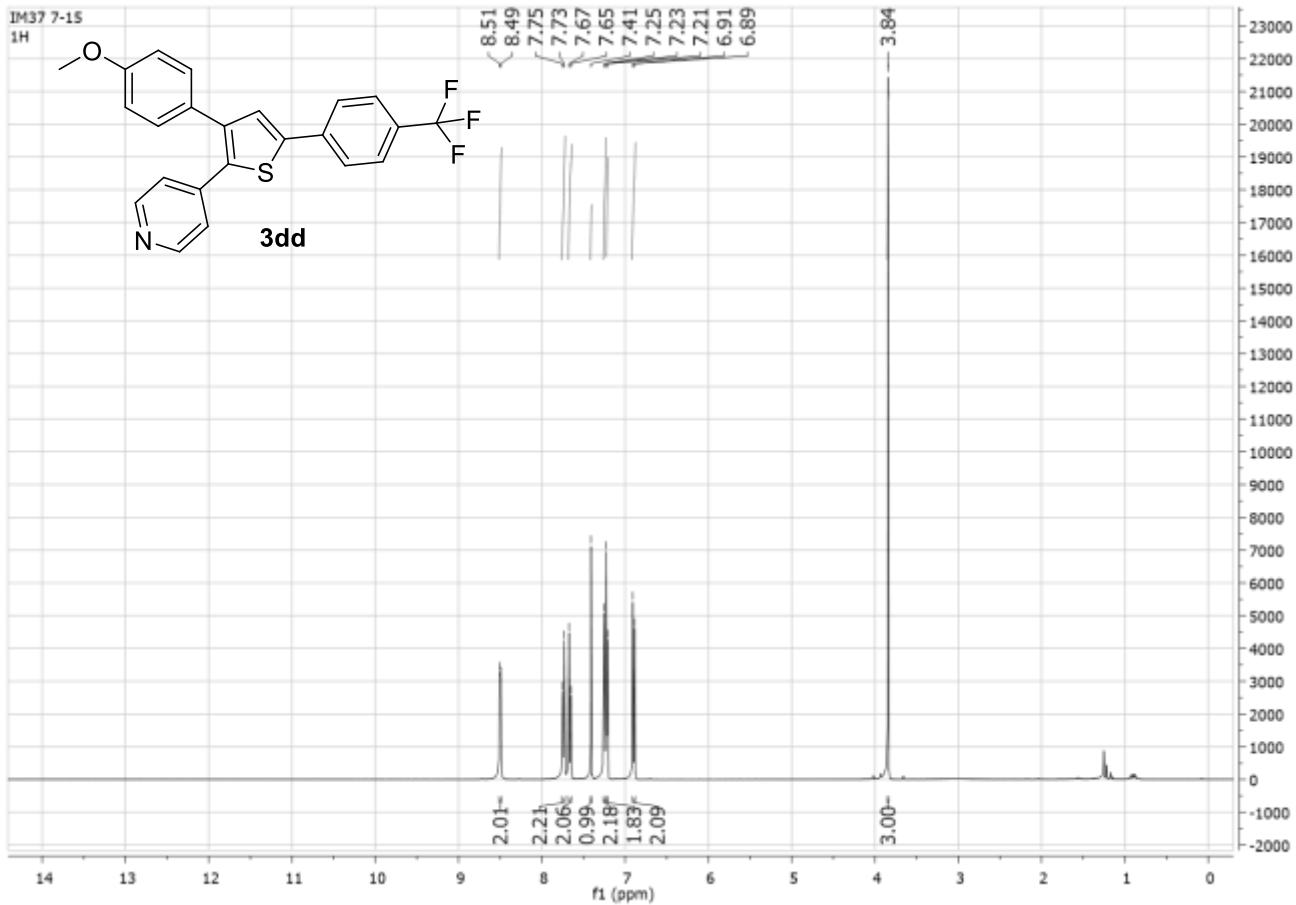


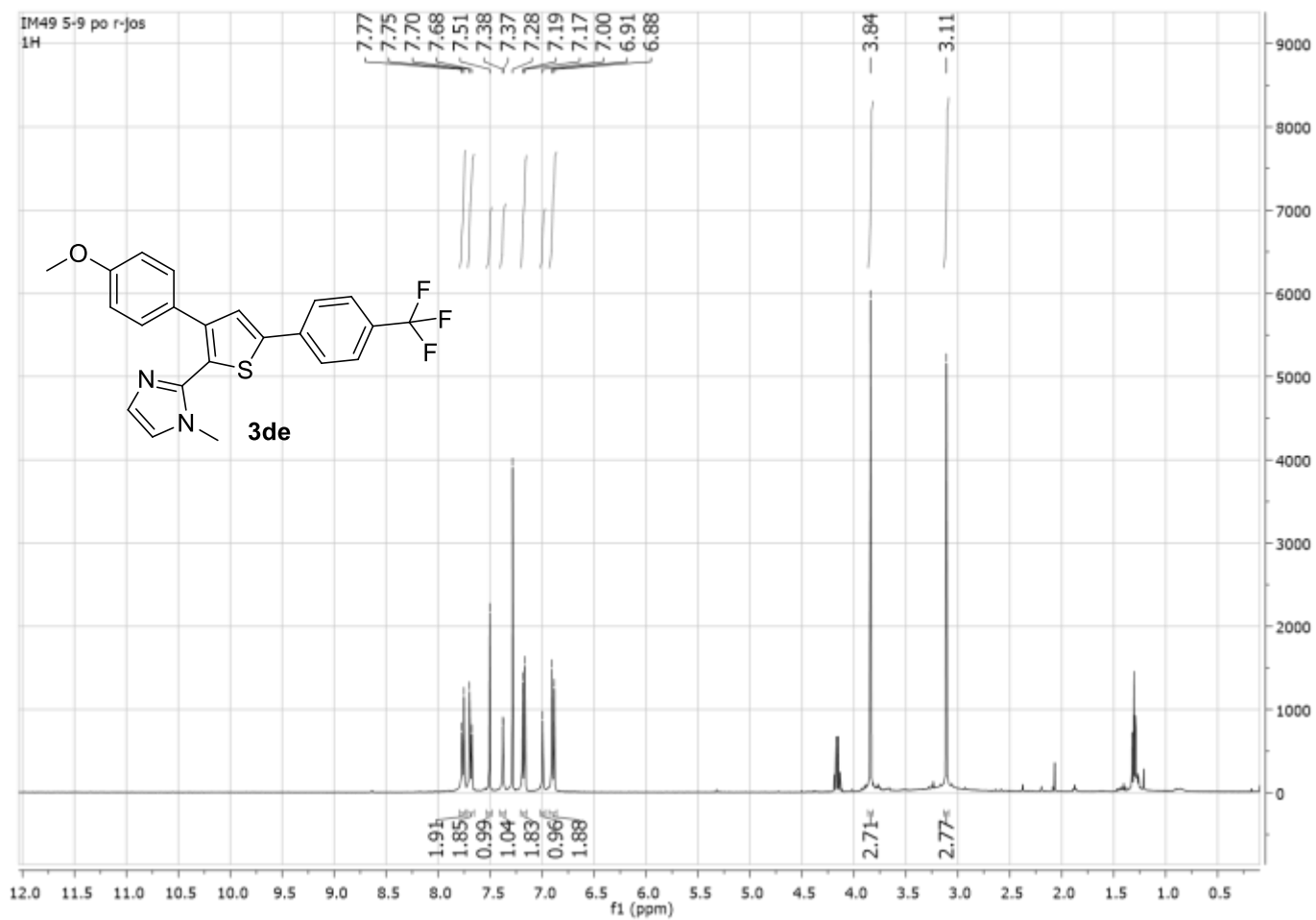


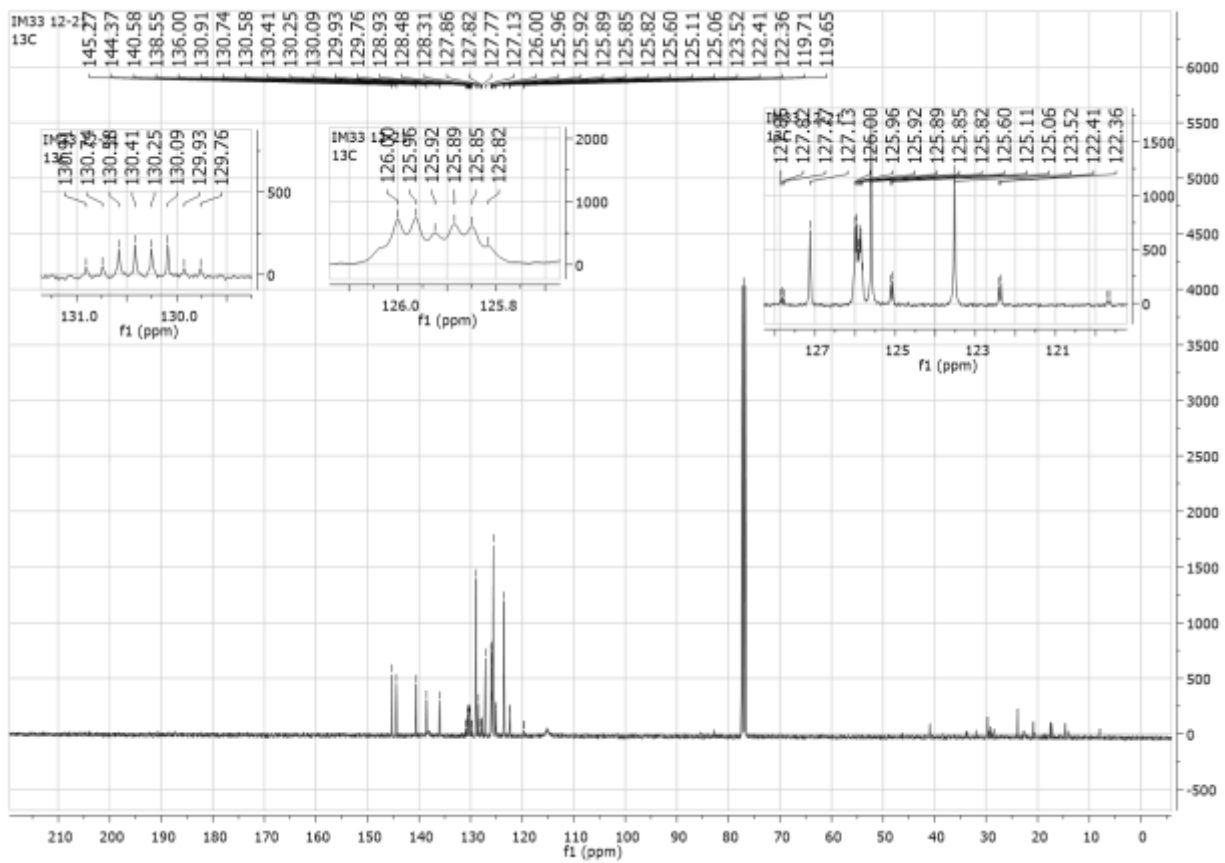
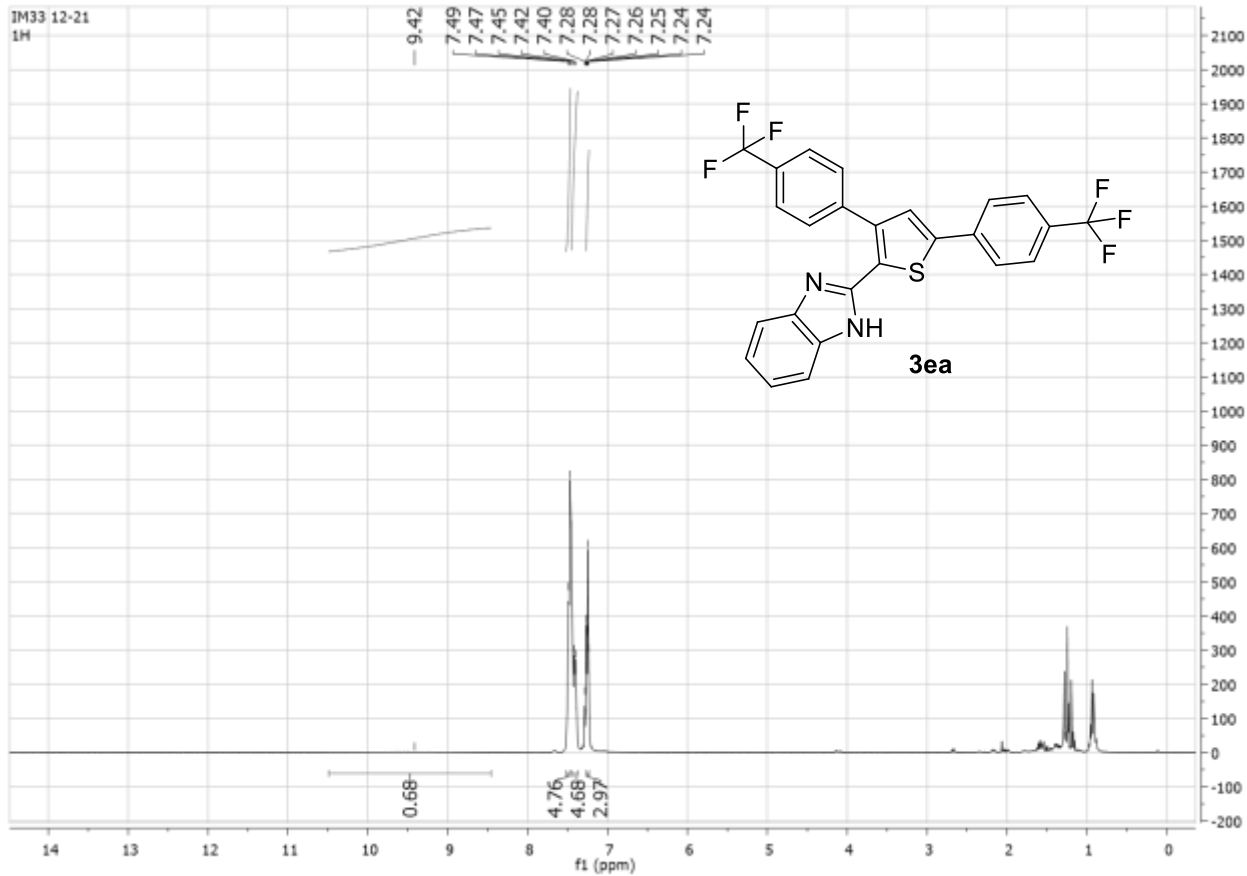


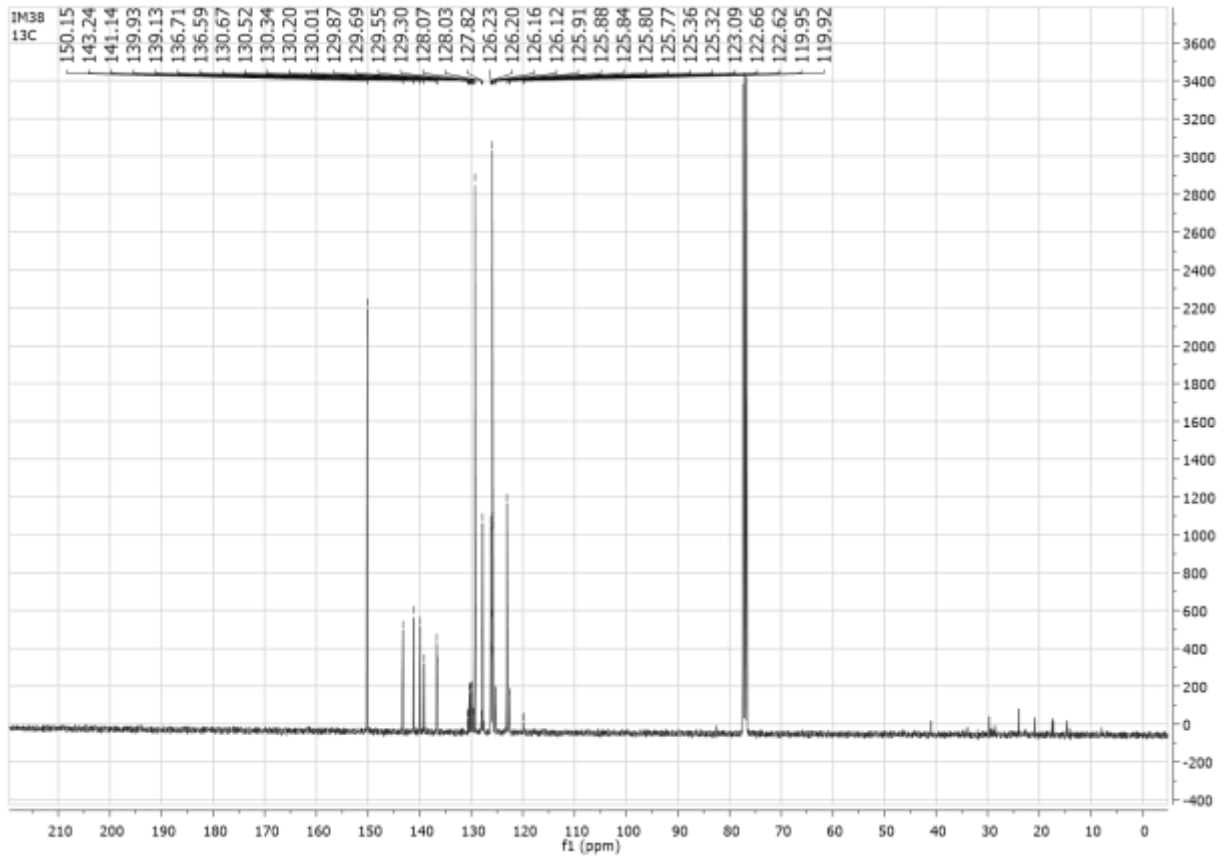
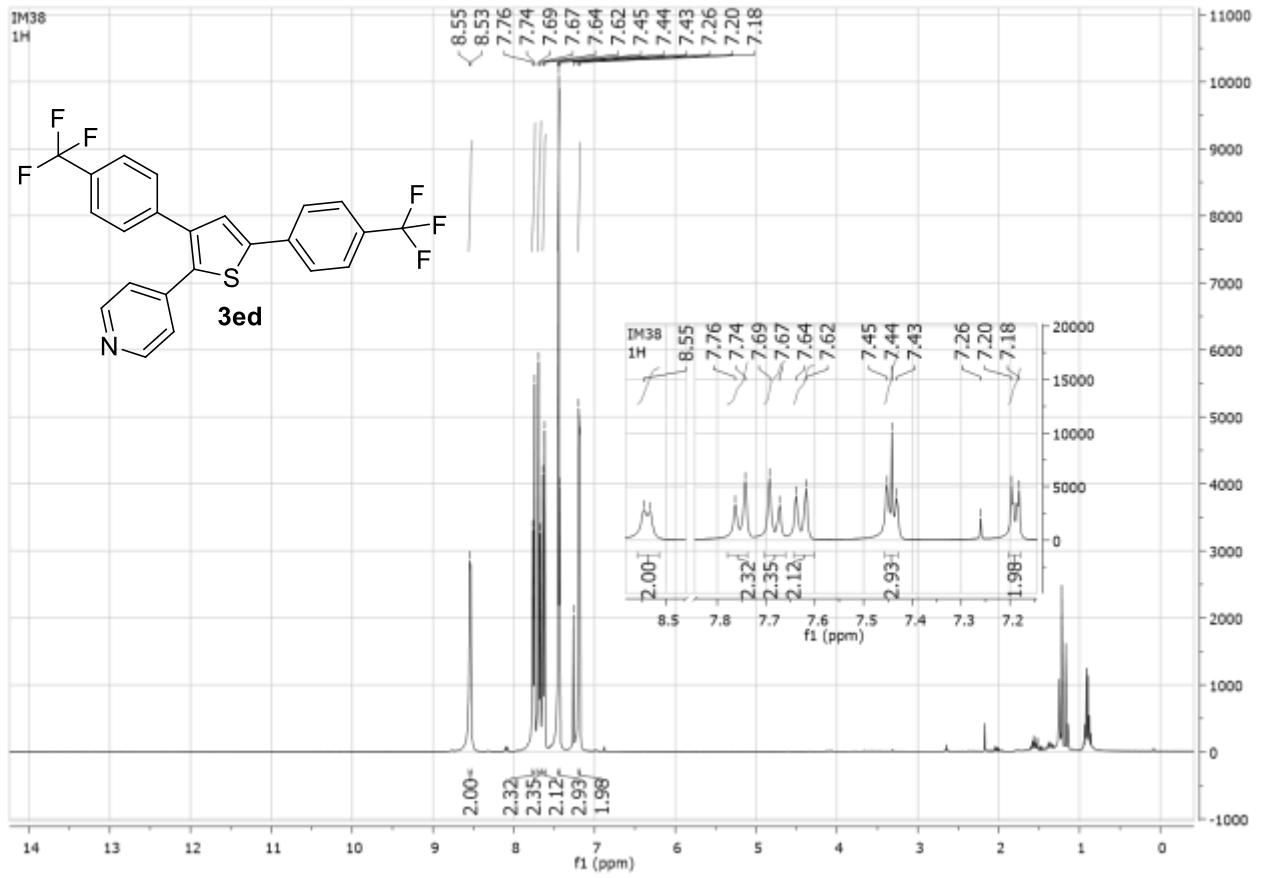


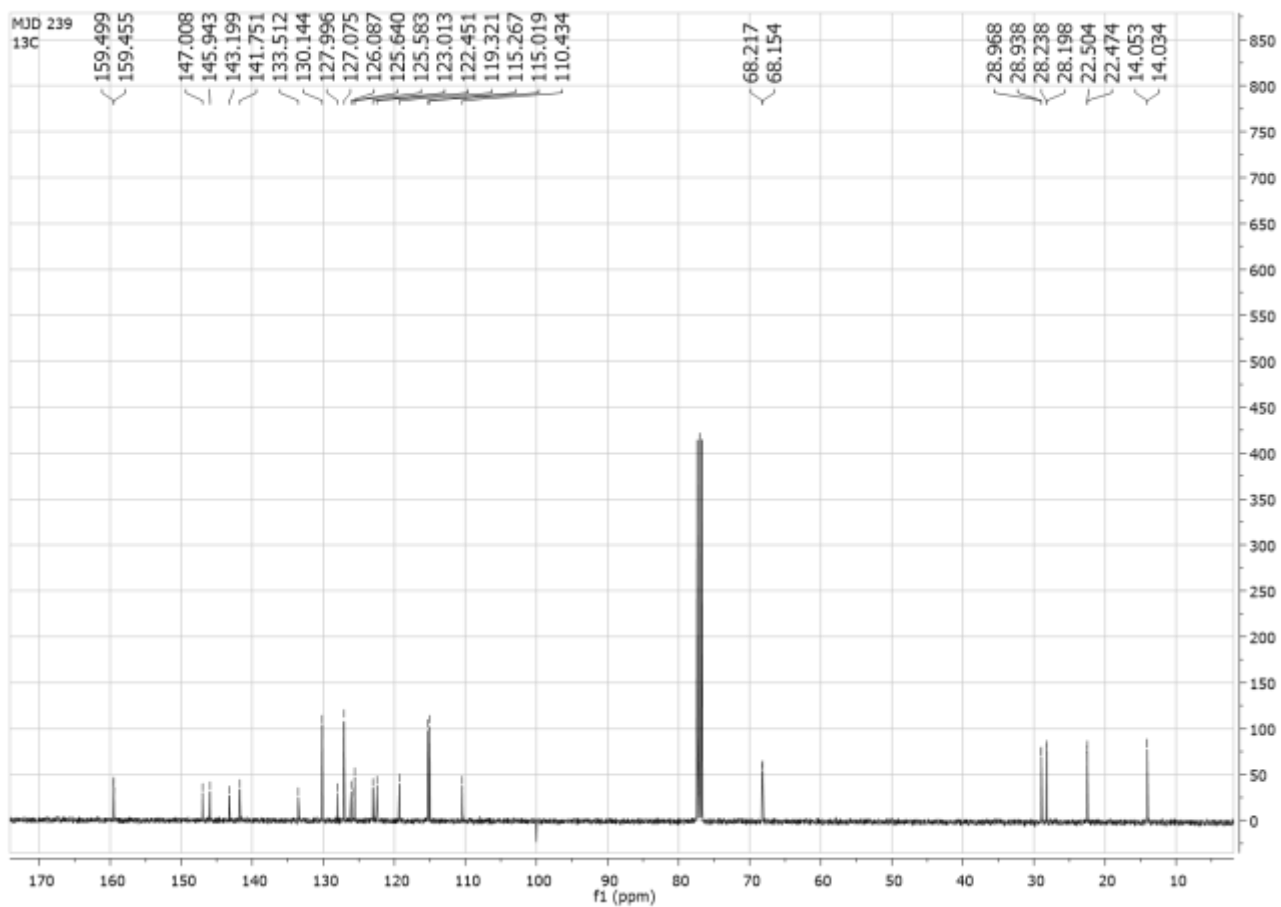
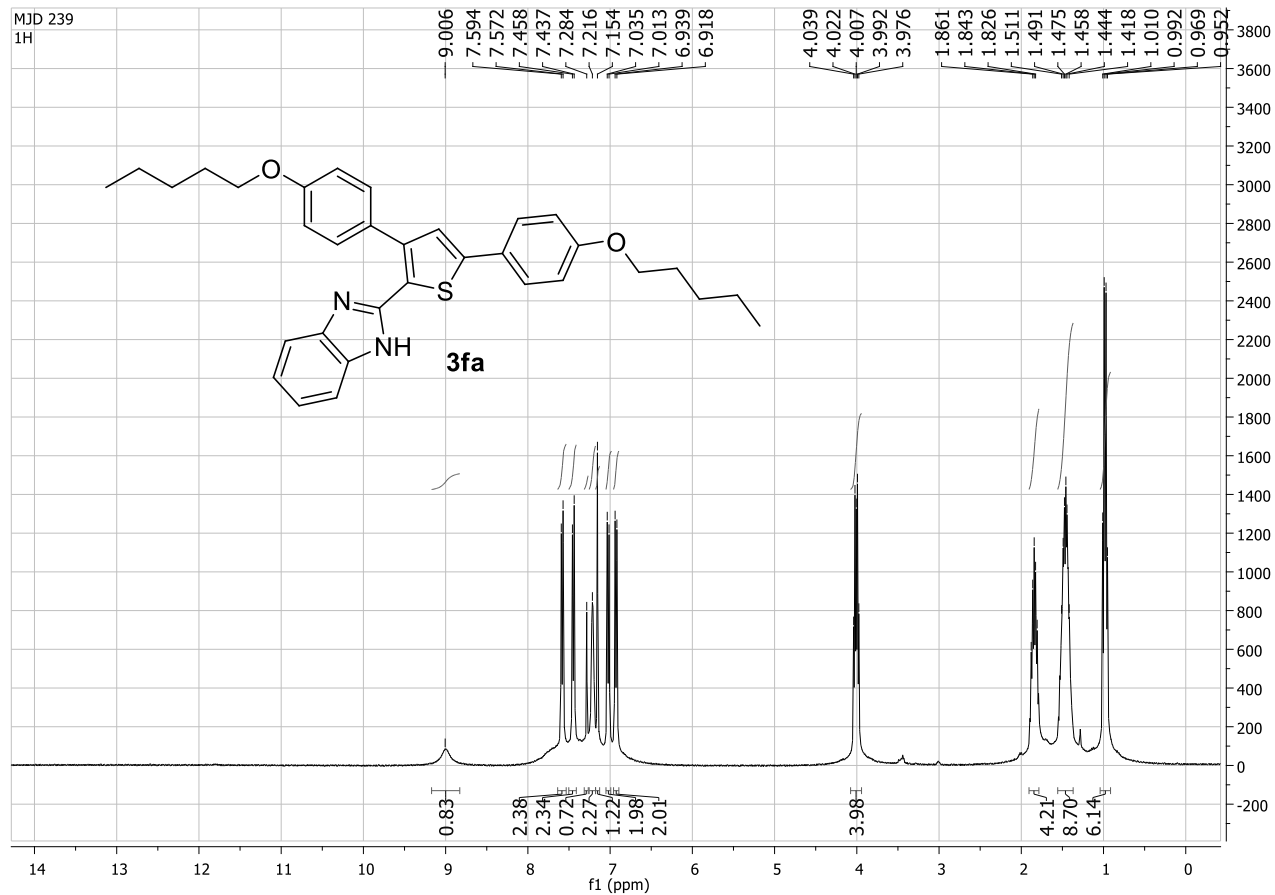


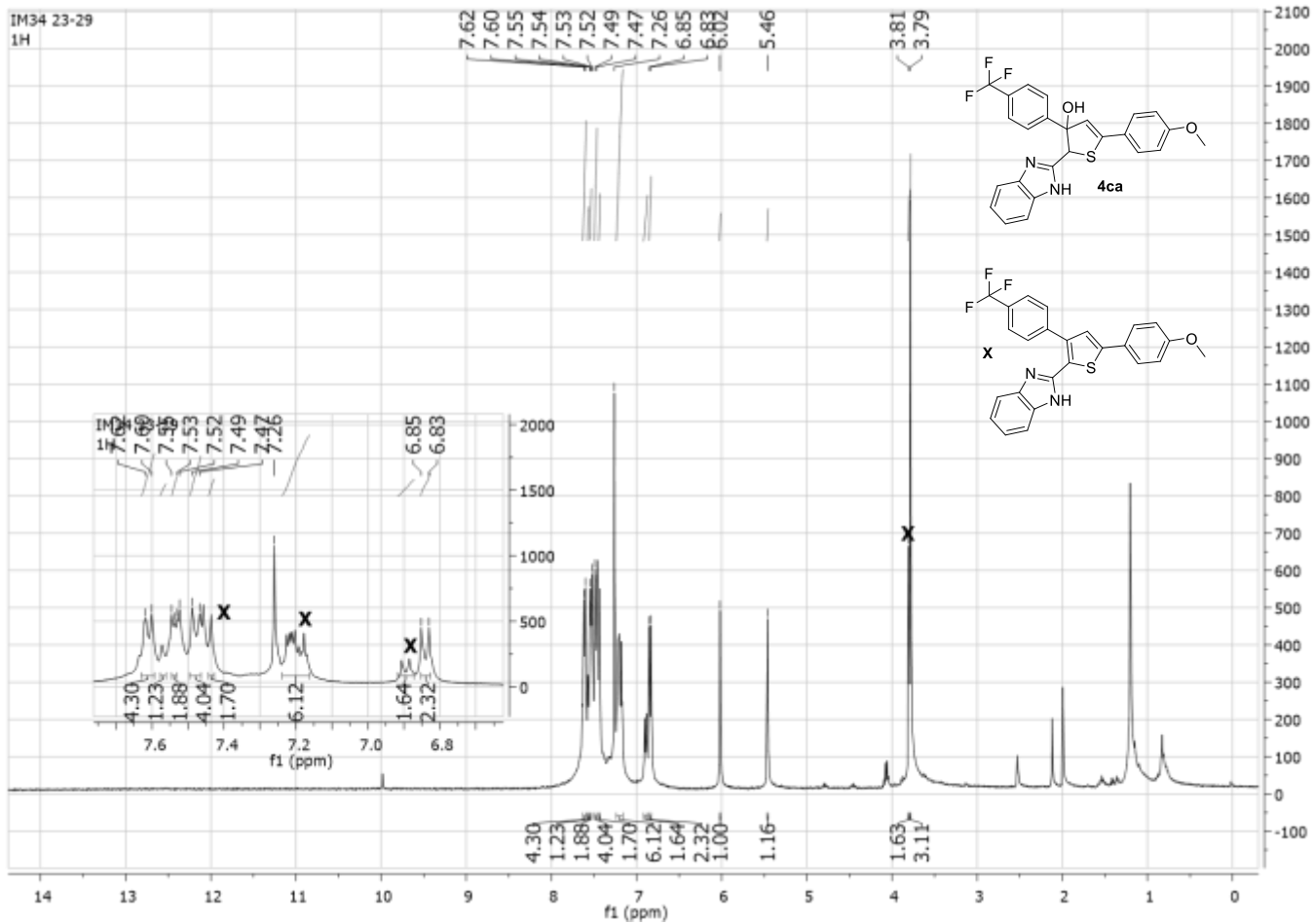


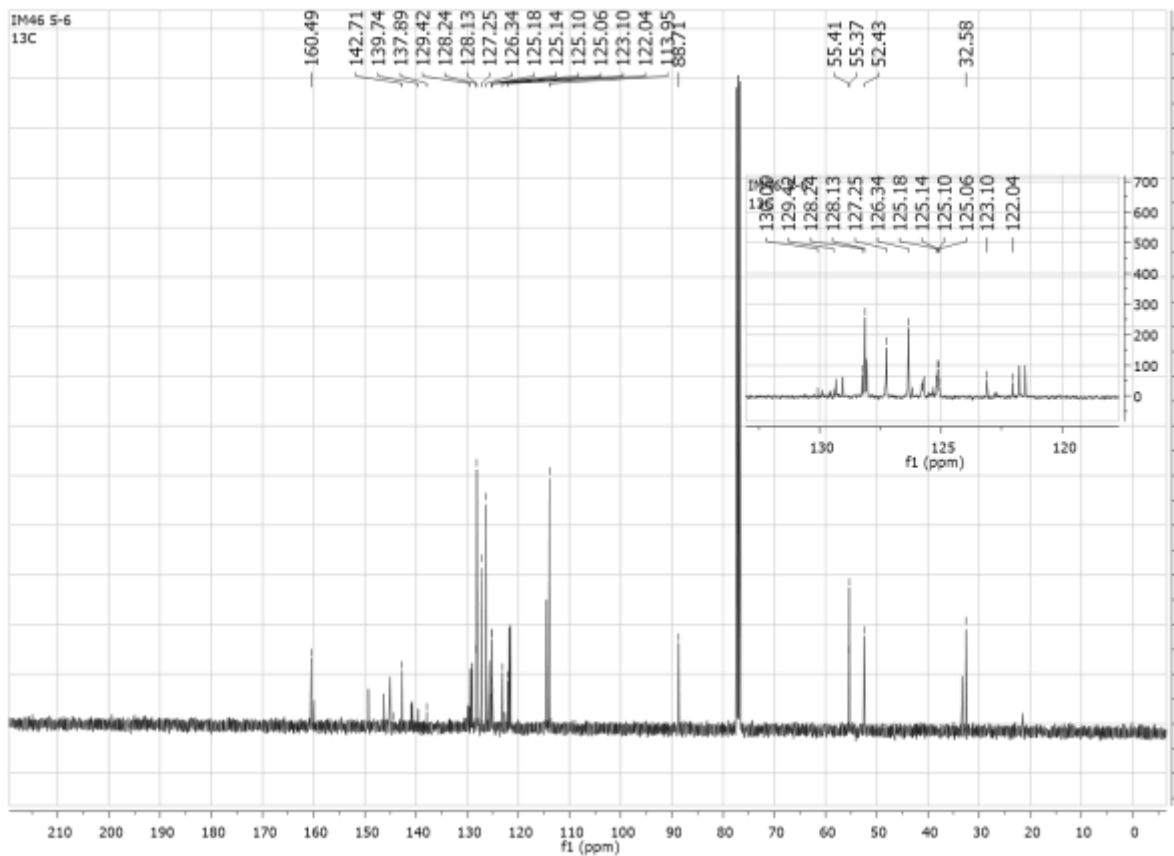
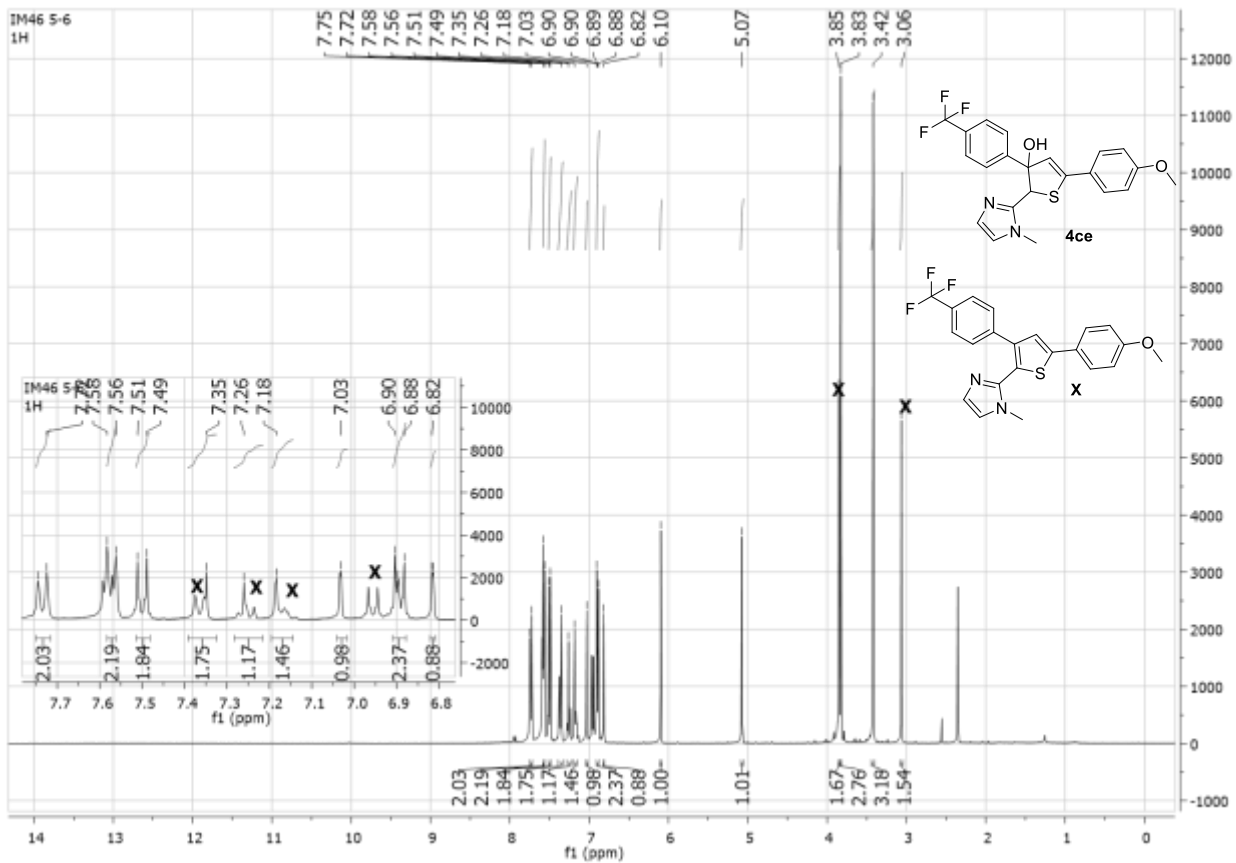


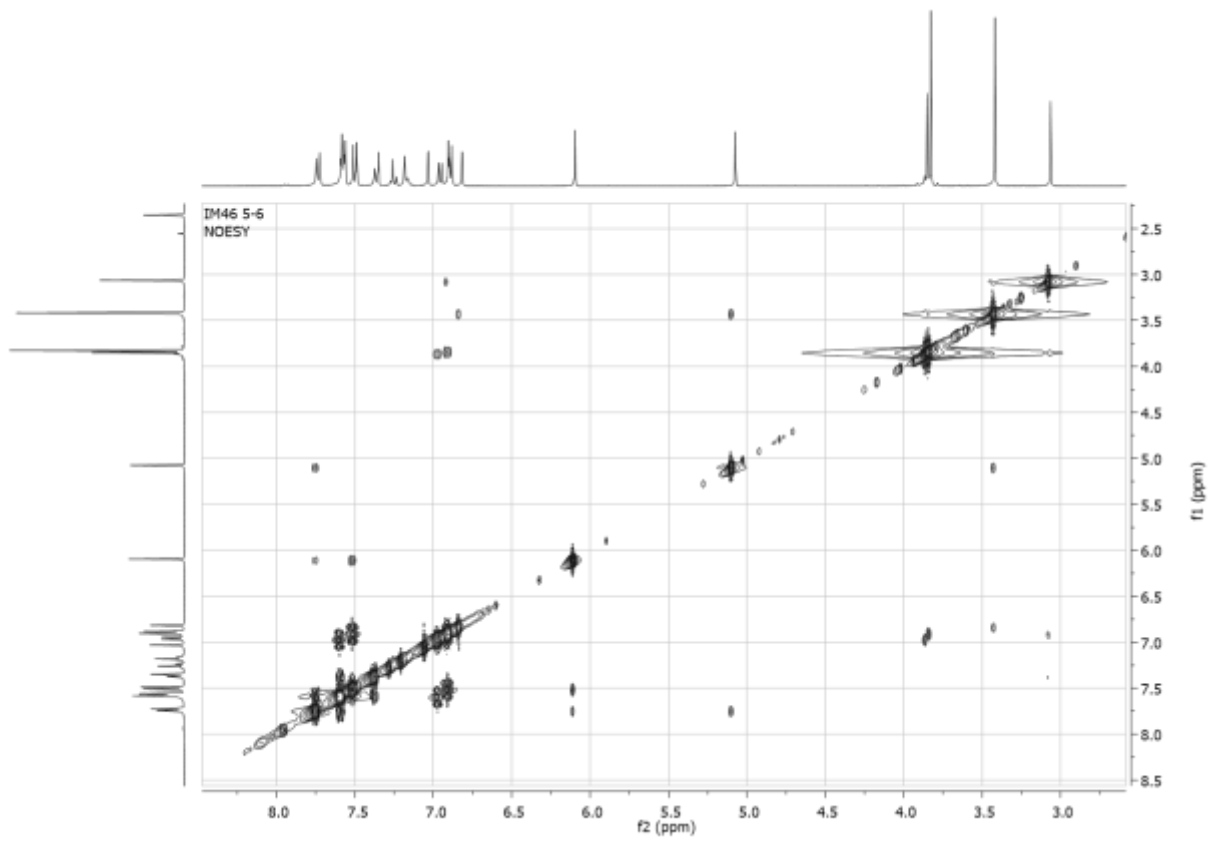


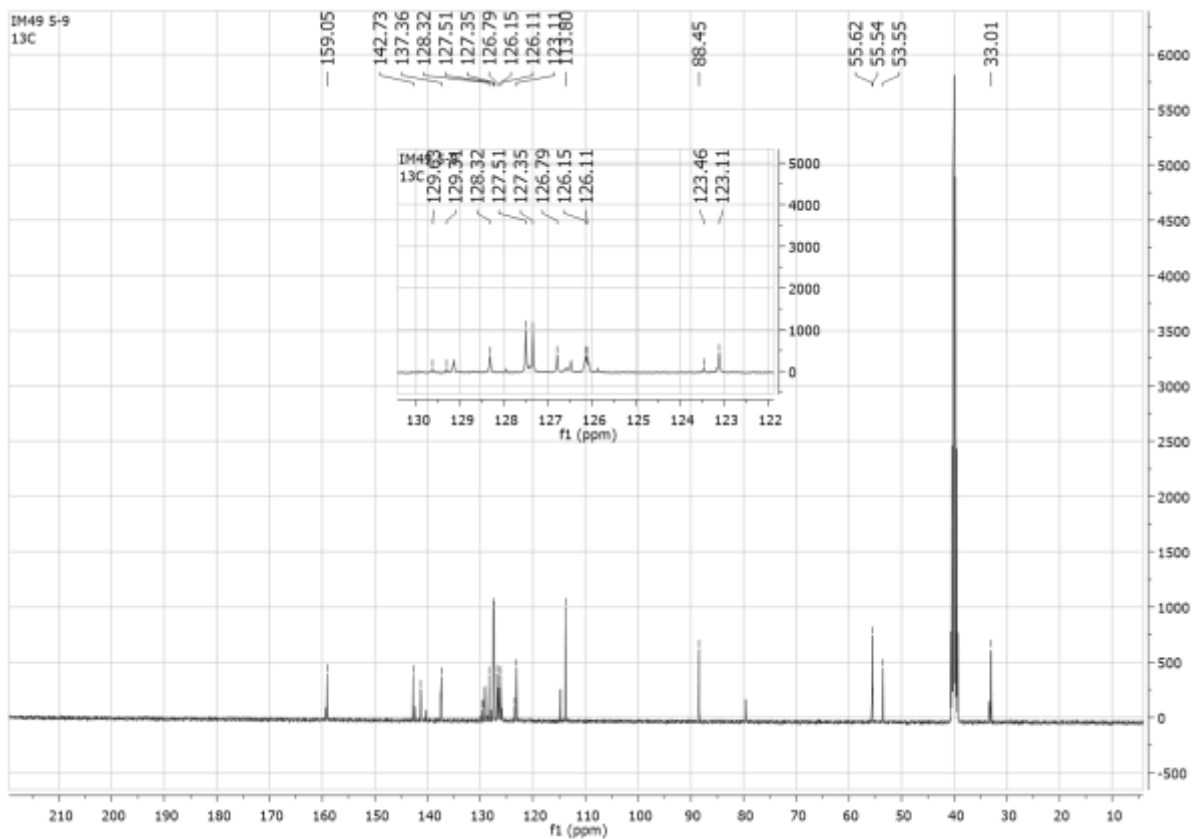
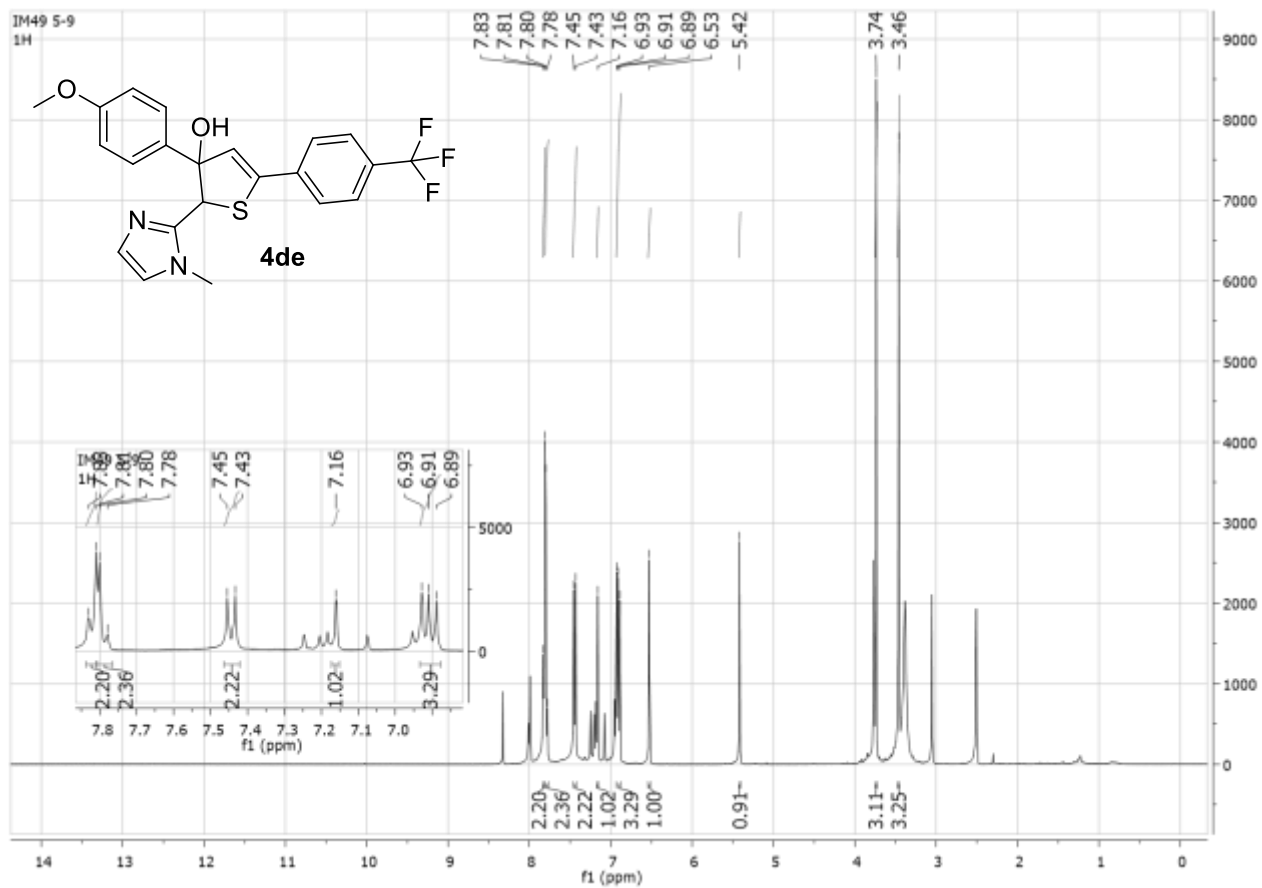


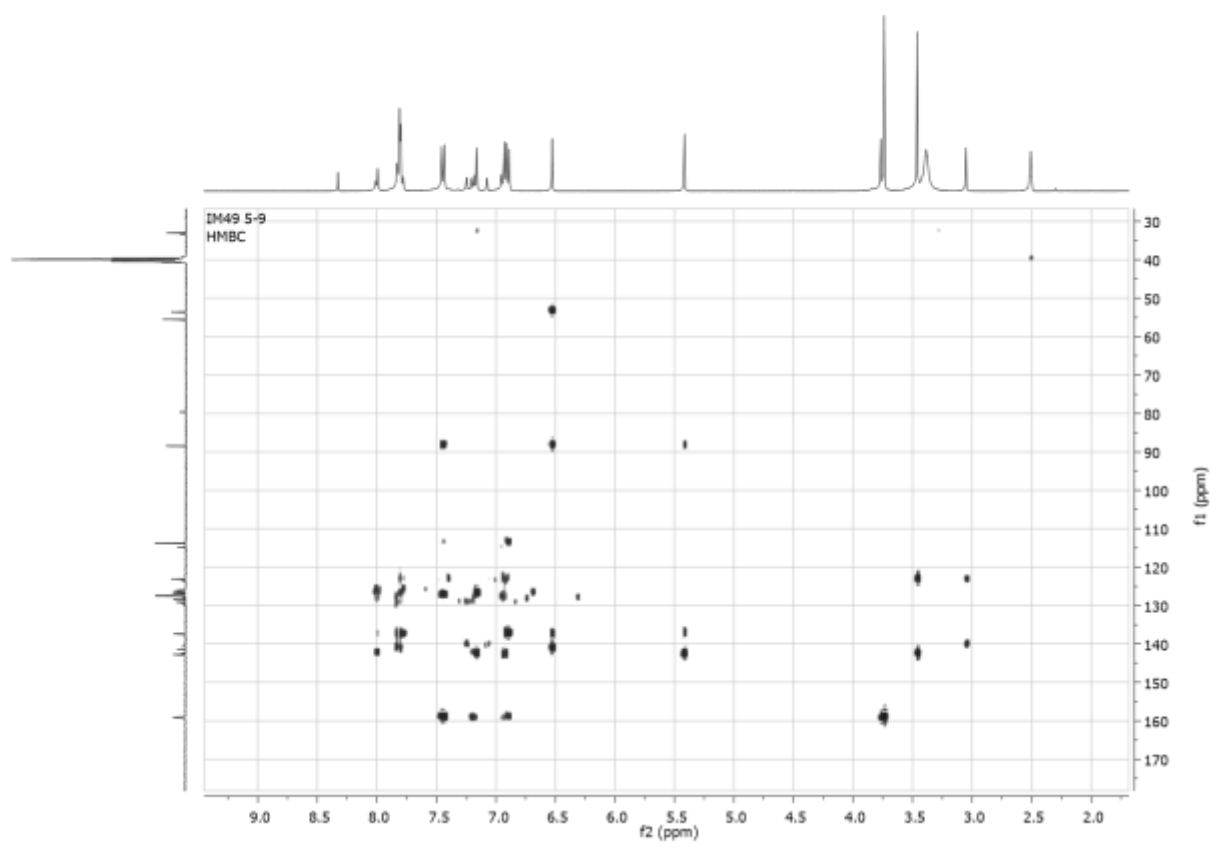
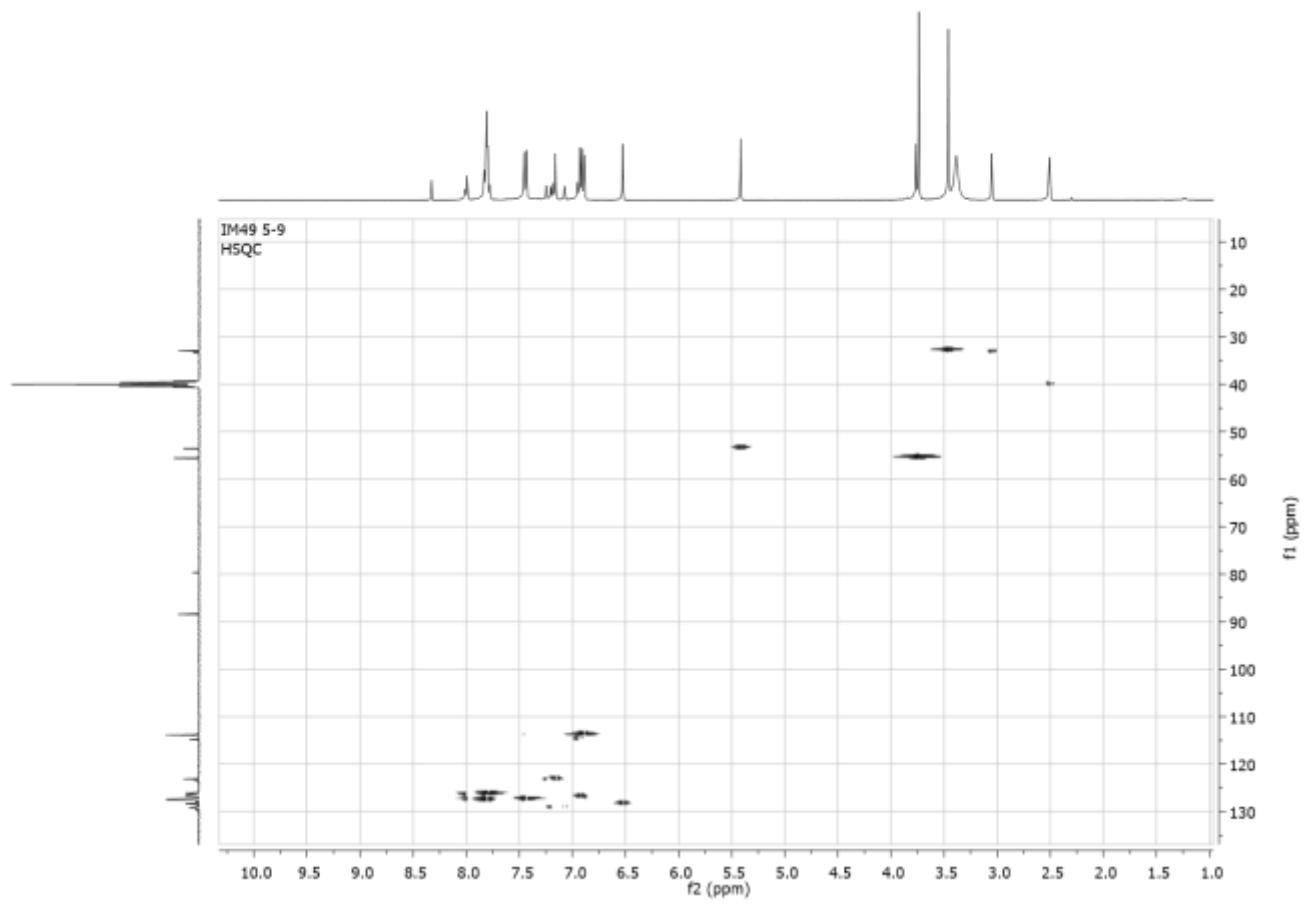


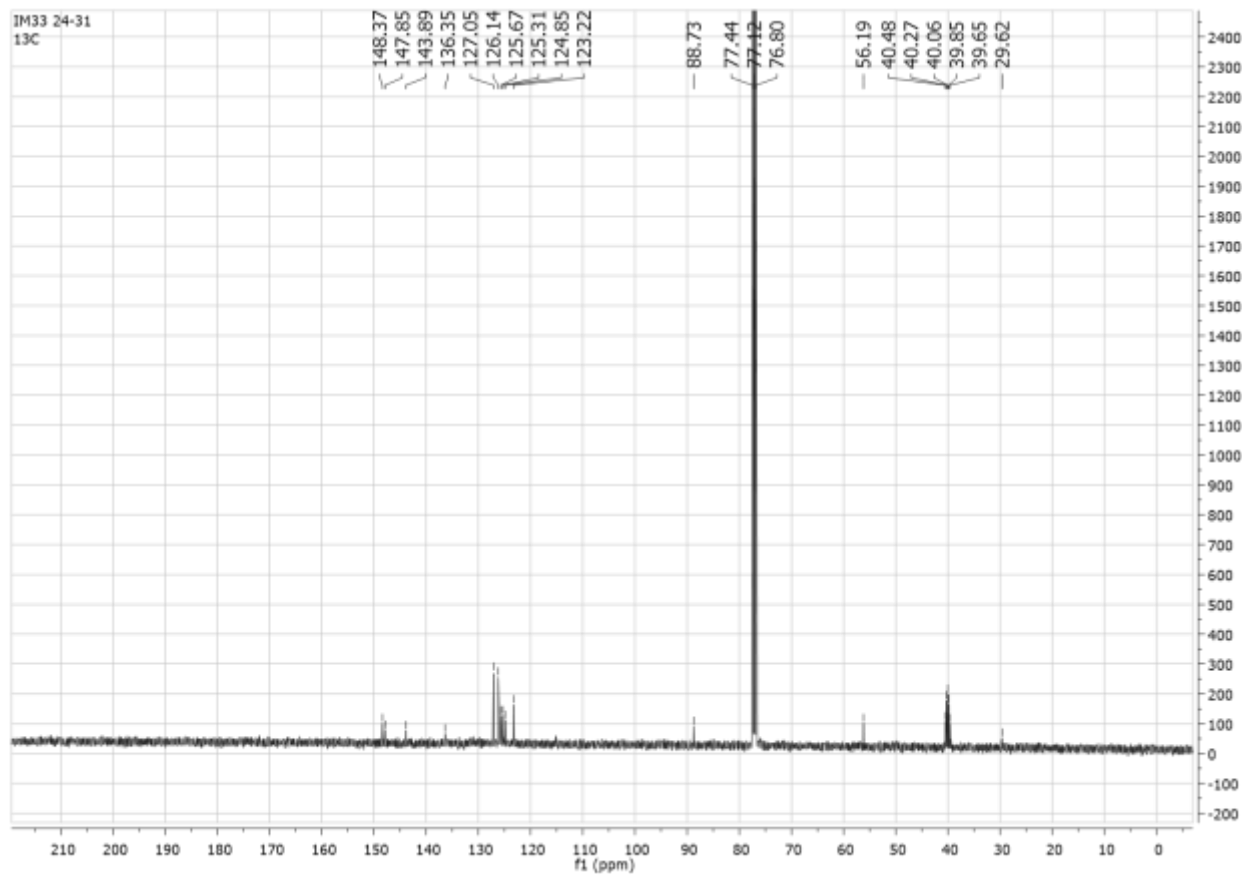
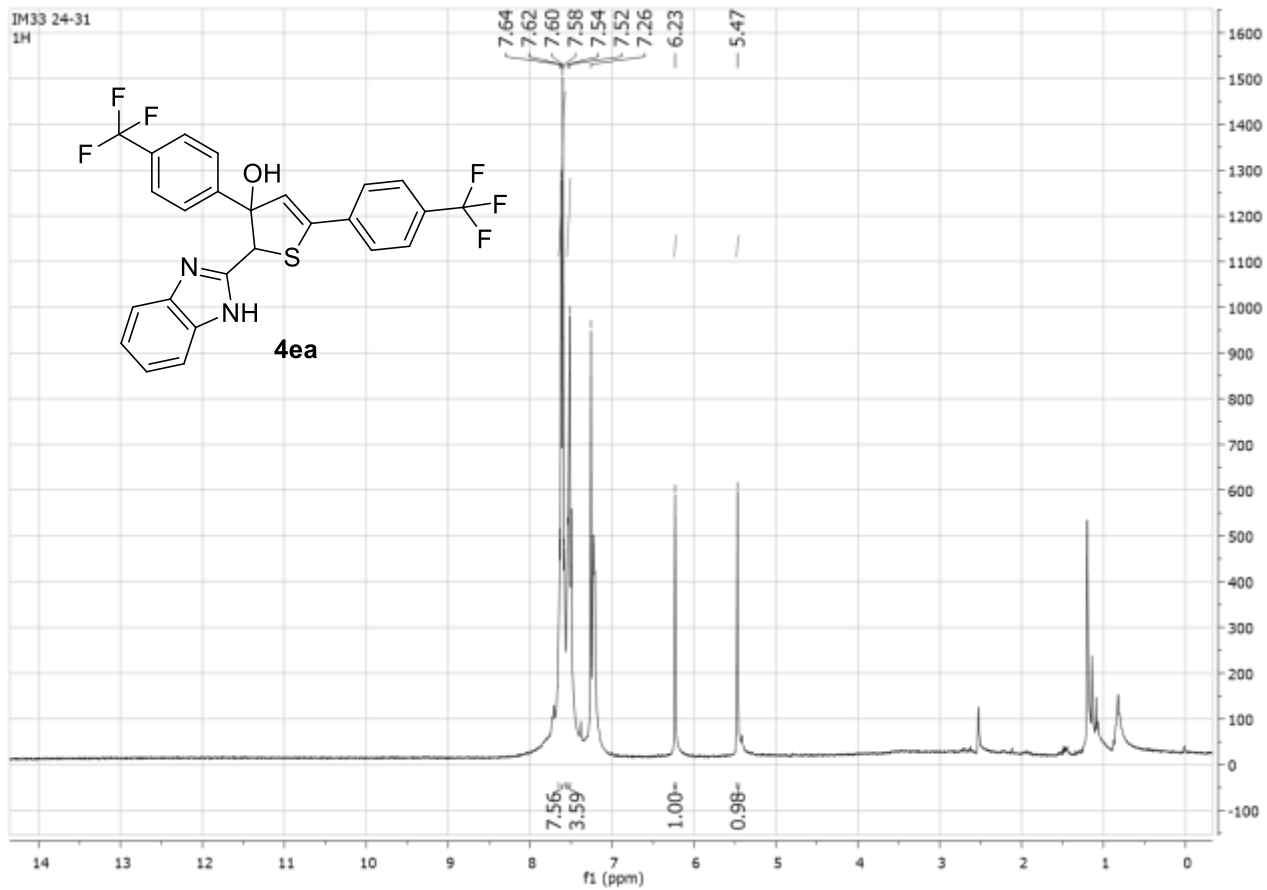


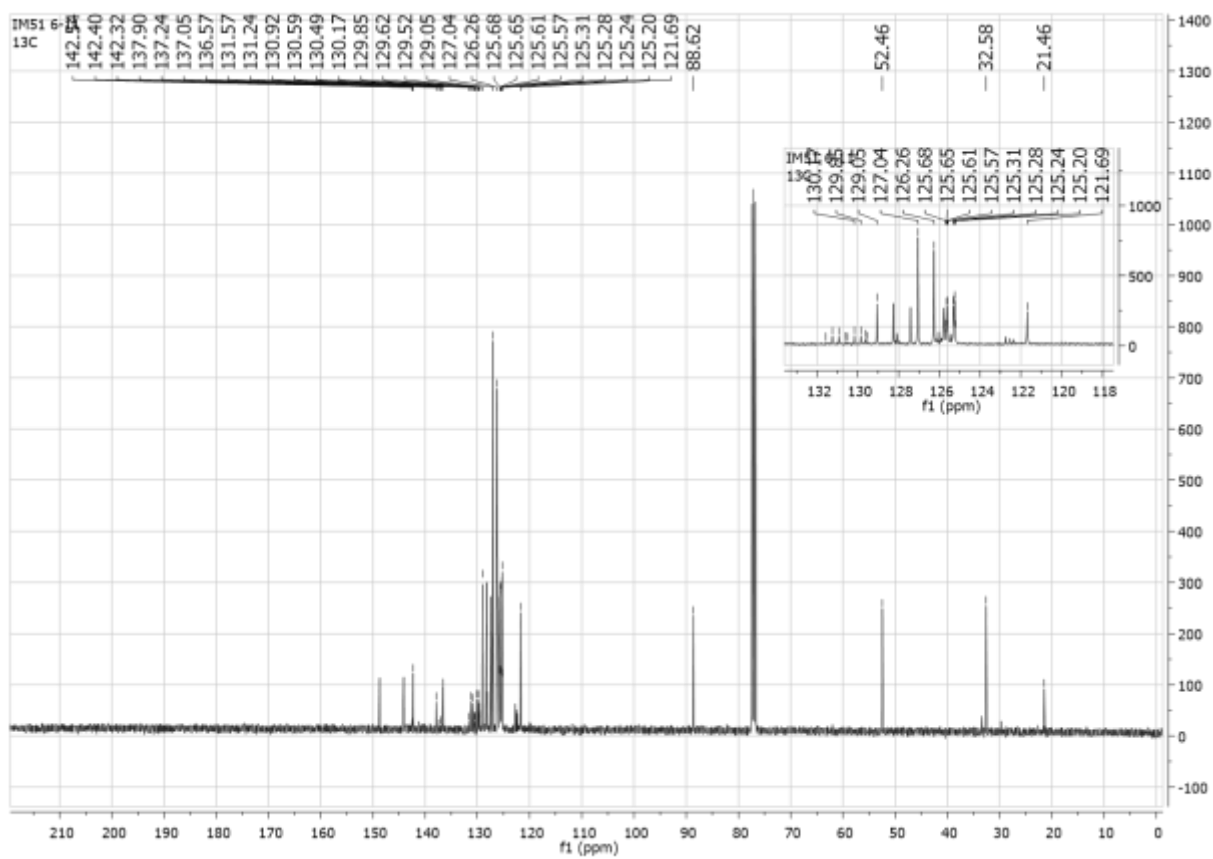
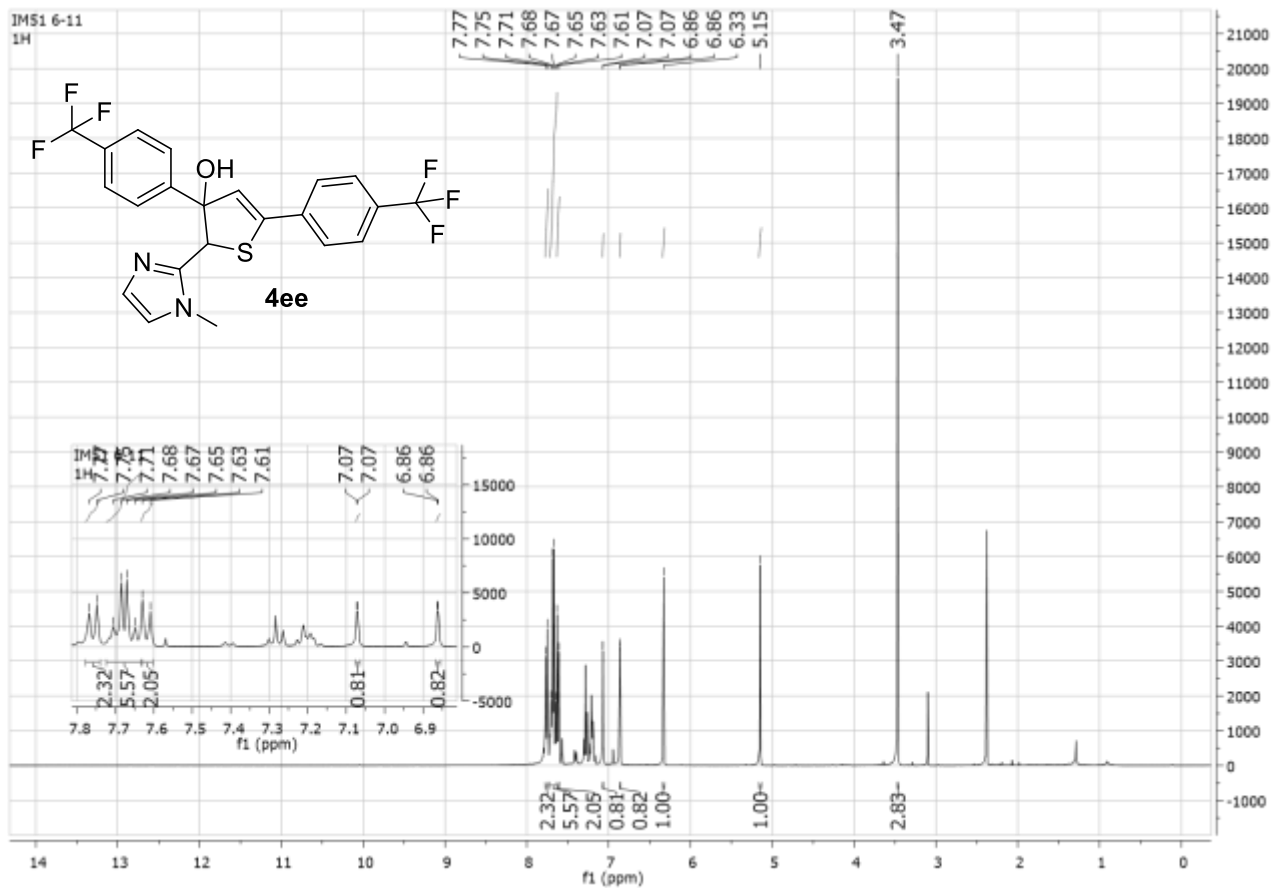






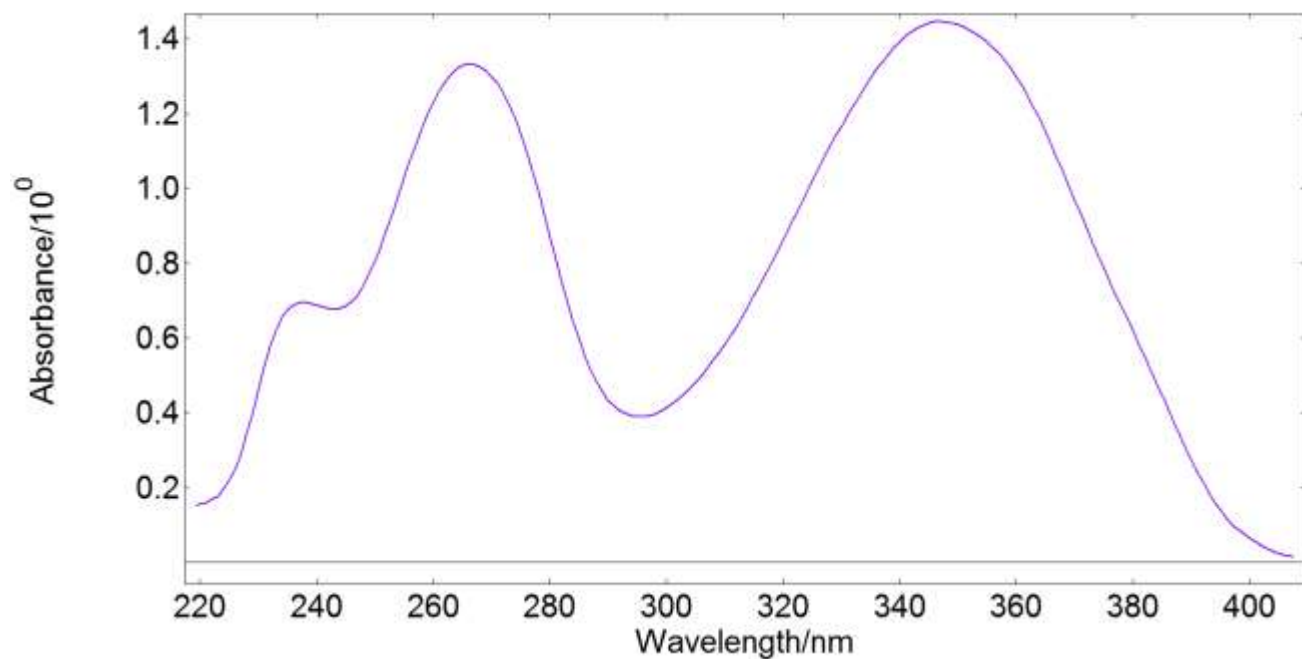




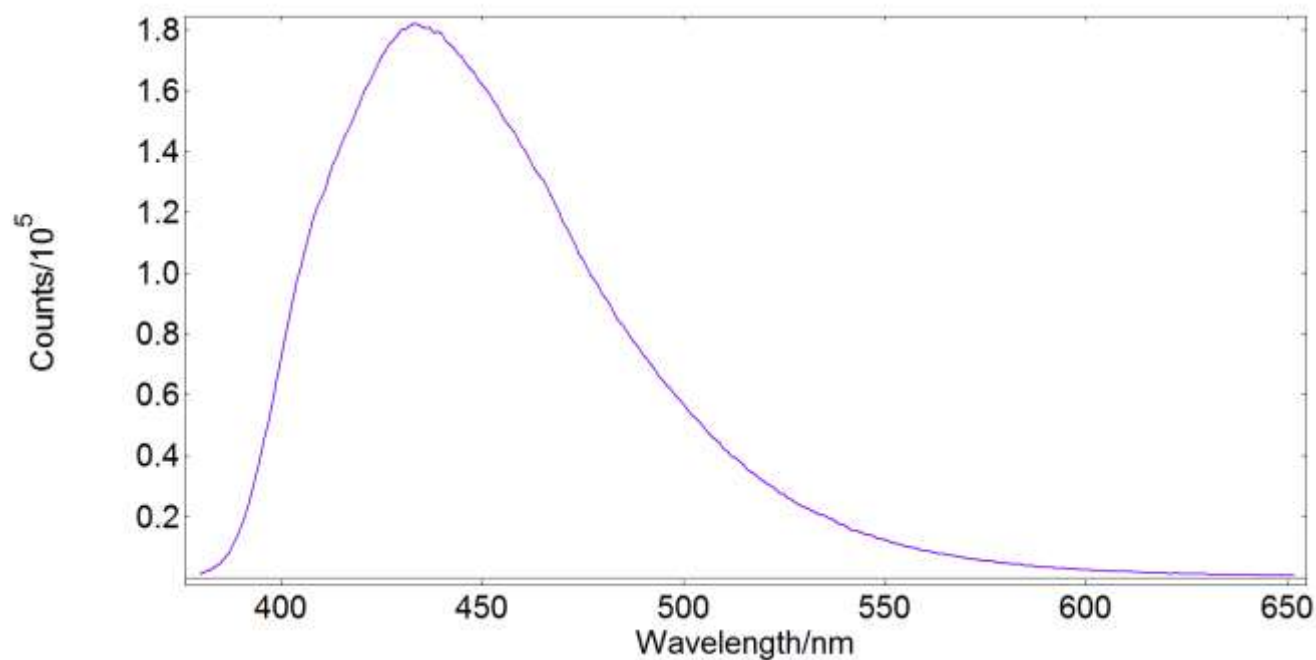


## Luminescence data

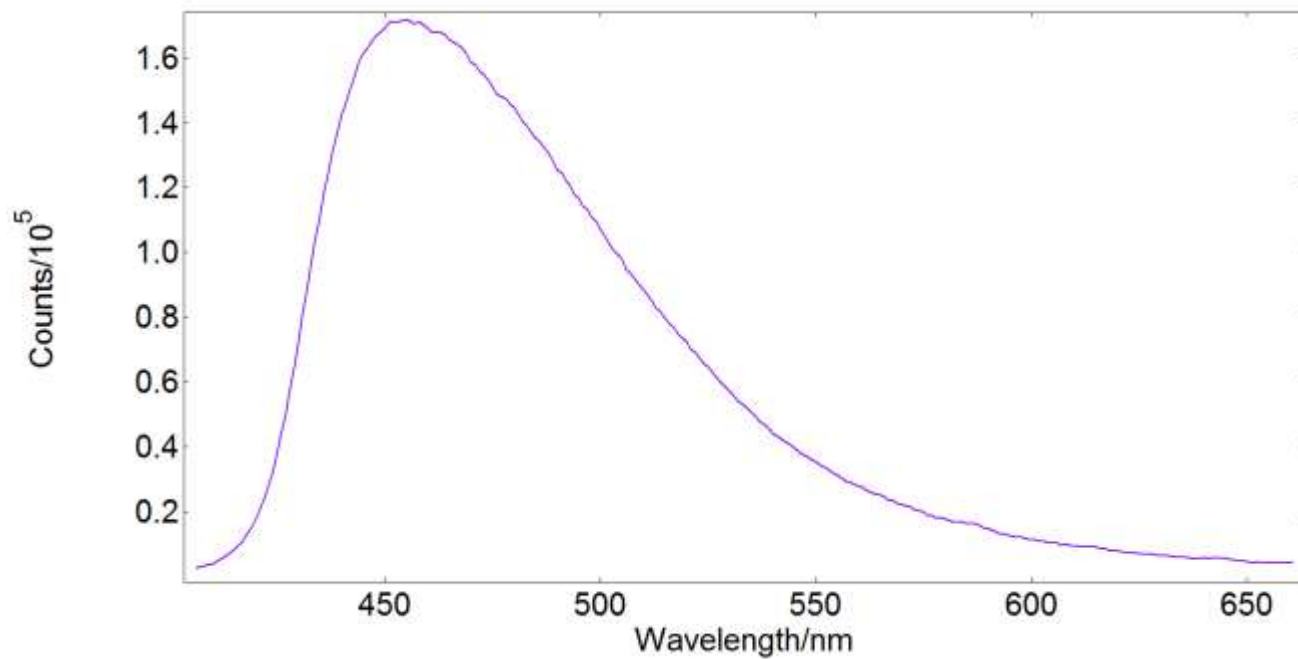
Absorption of **3aa** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



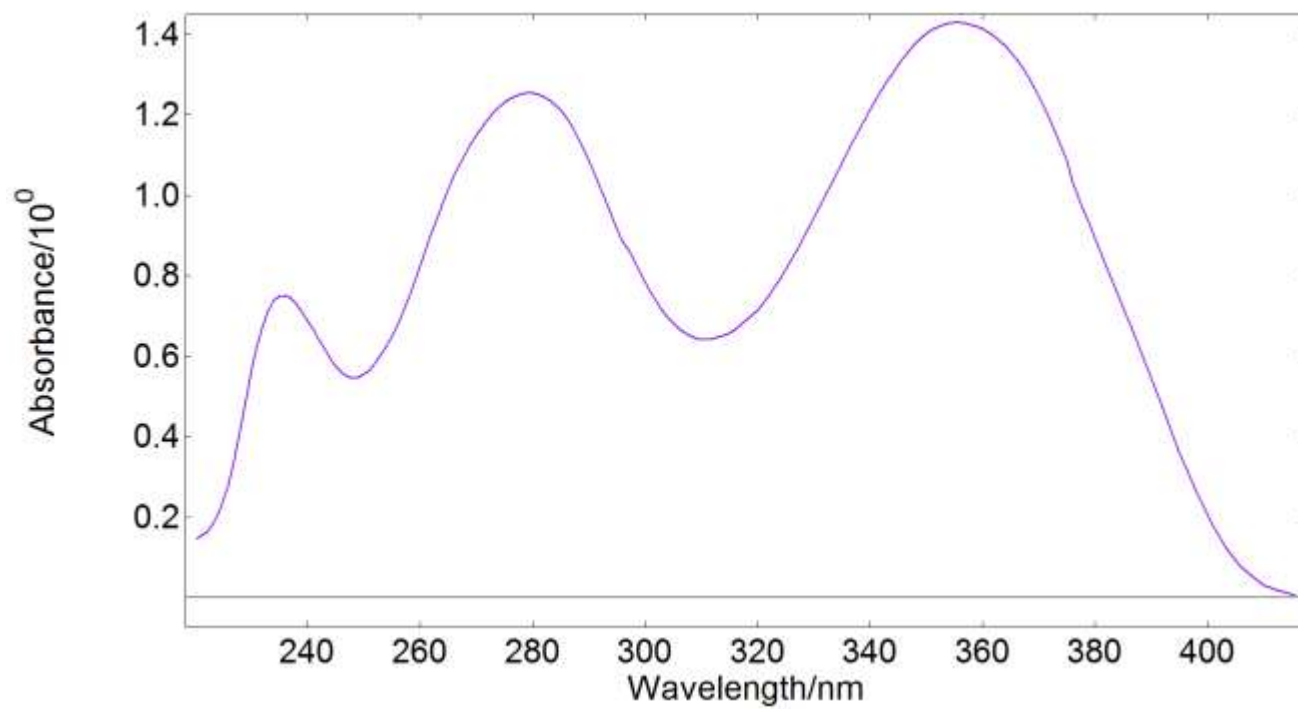
Emission of **3aa** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



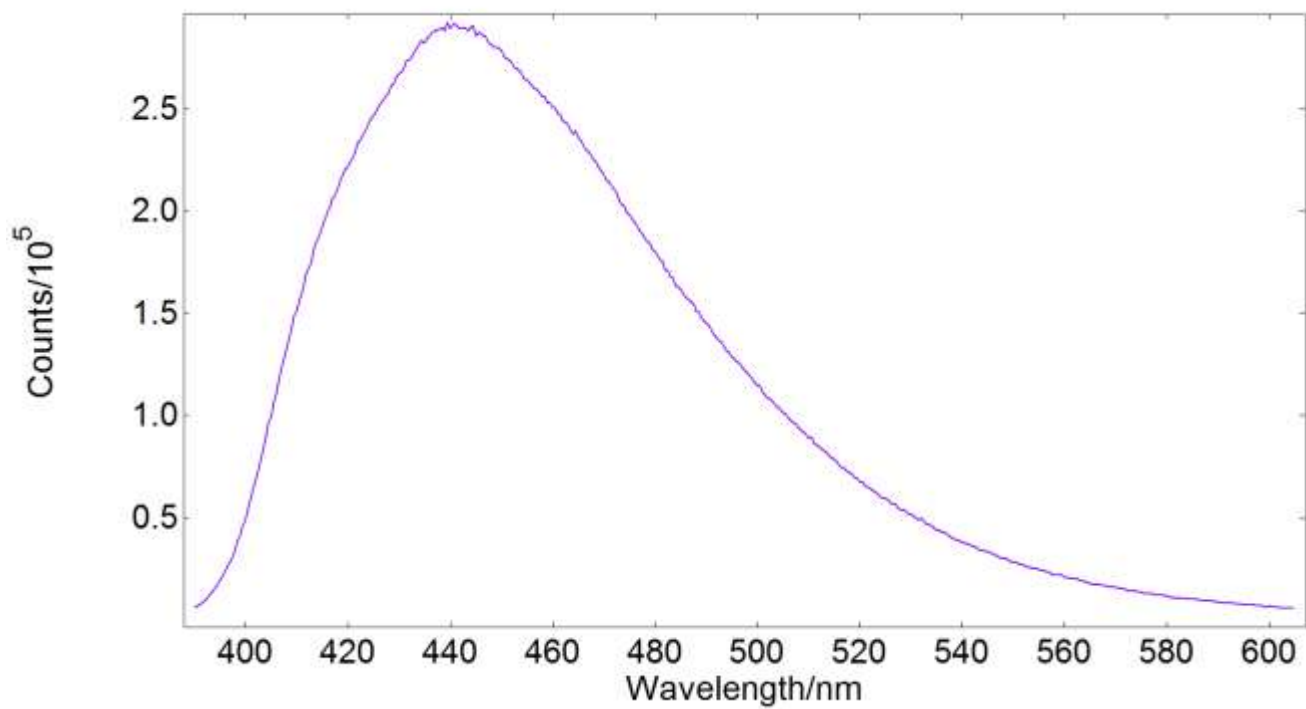
Emission of **3aa** in solid state



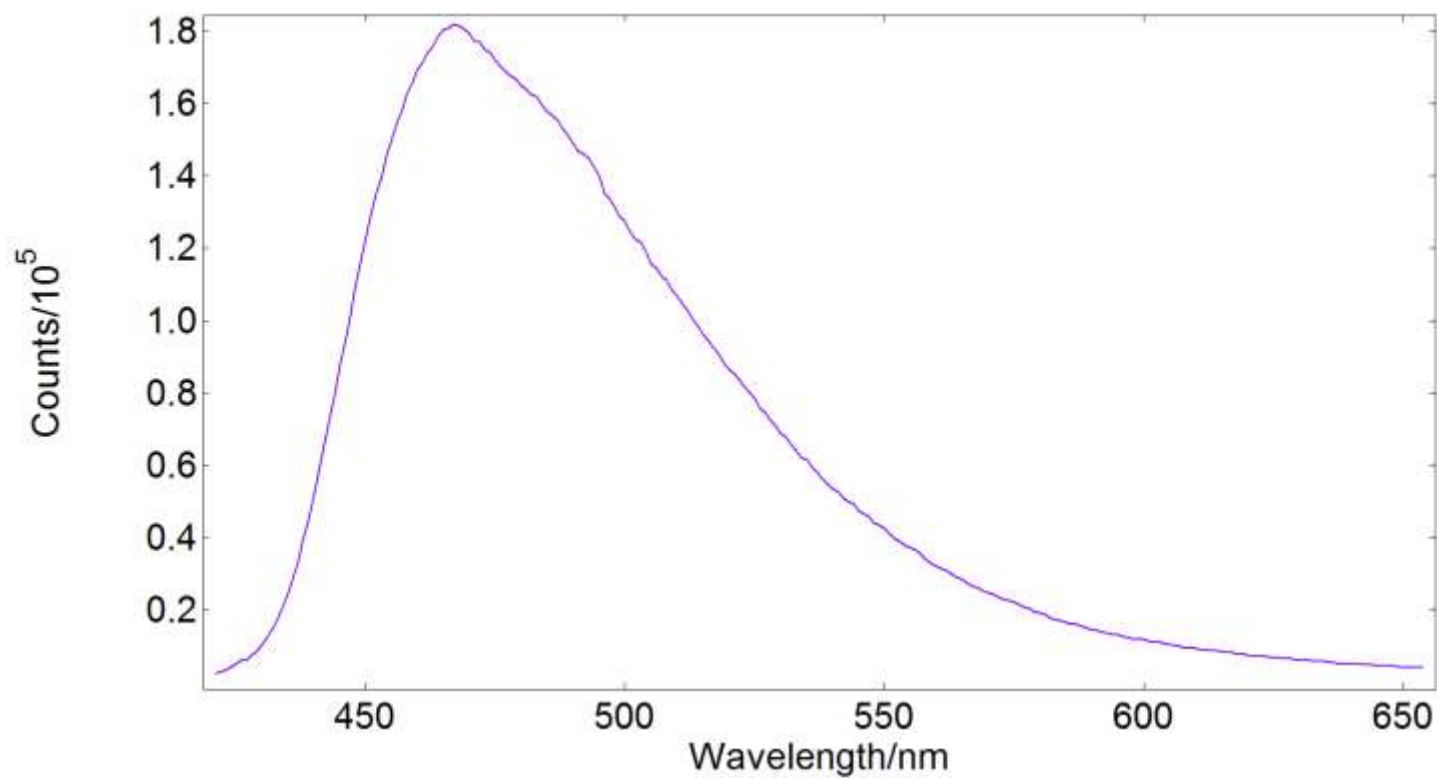
Absorption of **3ba** in MeCN solution (concentration is *ca* 10<sup>-6</sup> mol/L)



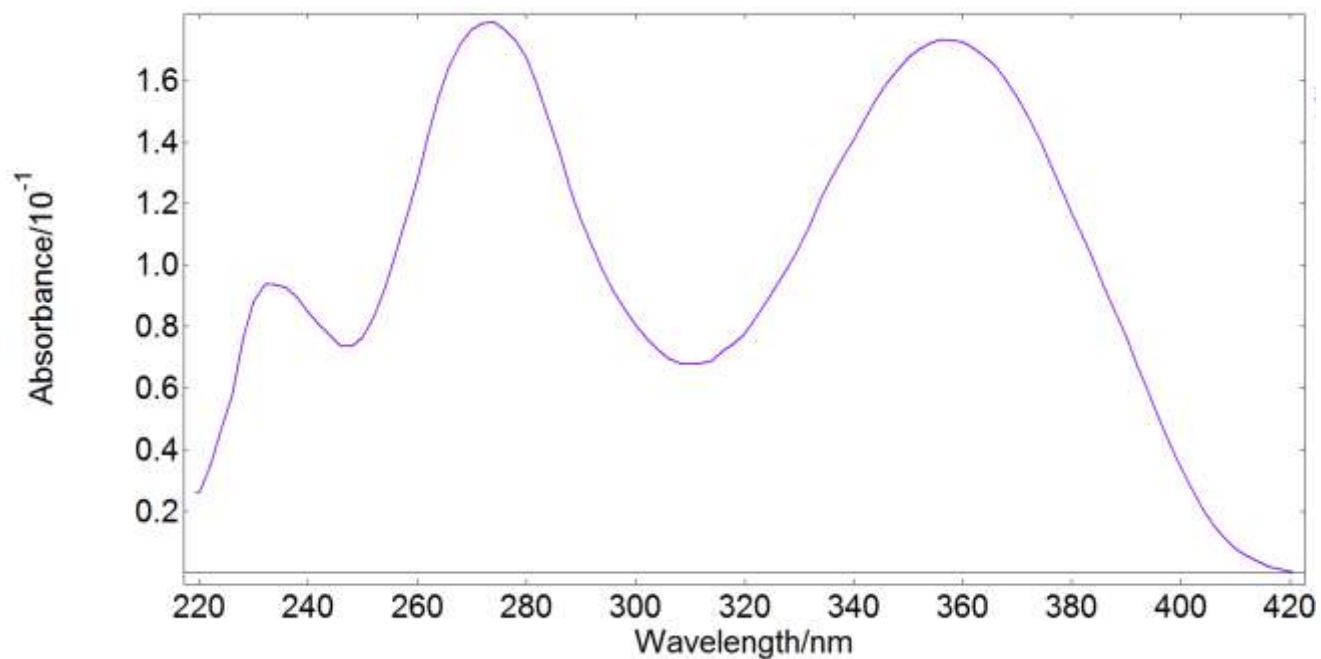
Emission of **3ba** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



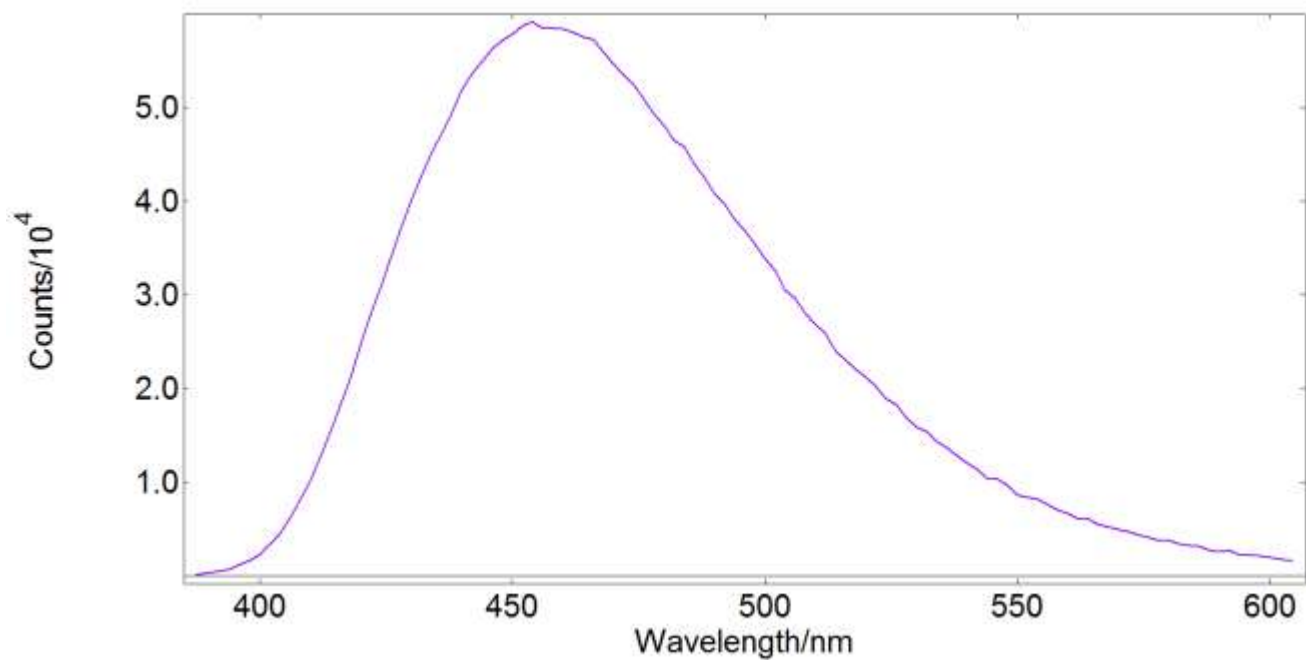
Emission of **3ba** in solid state



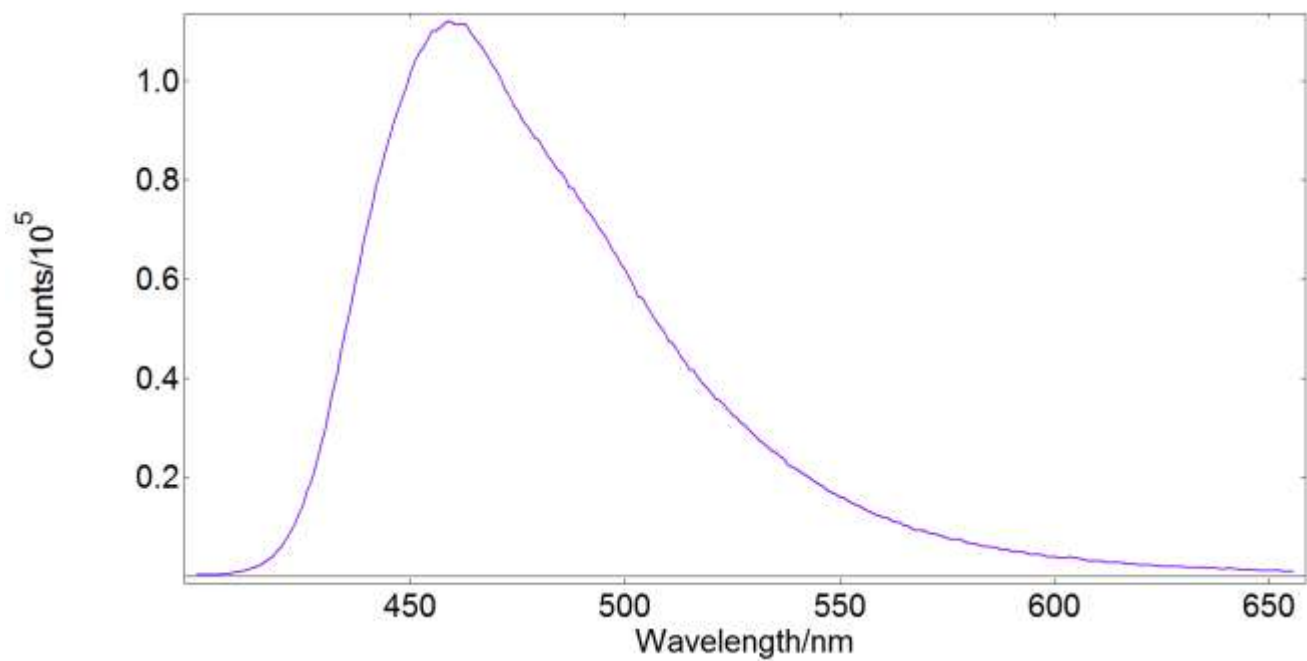
Absorption of **3ca** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



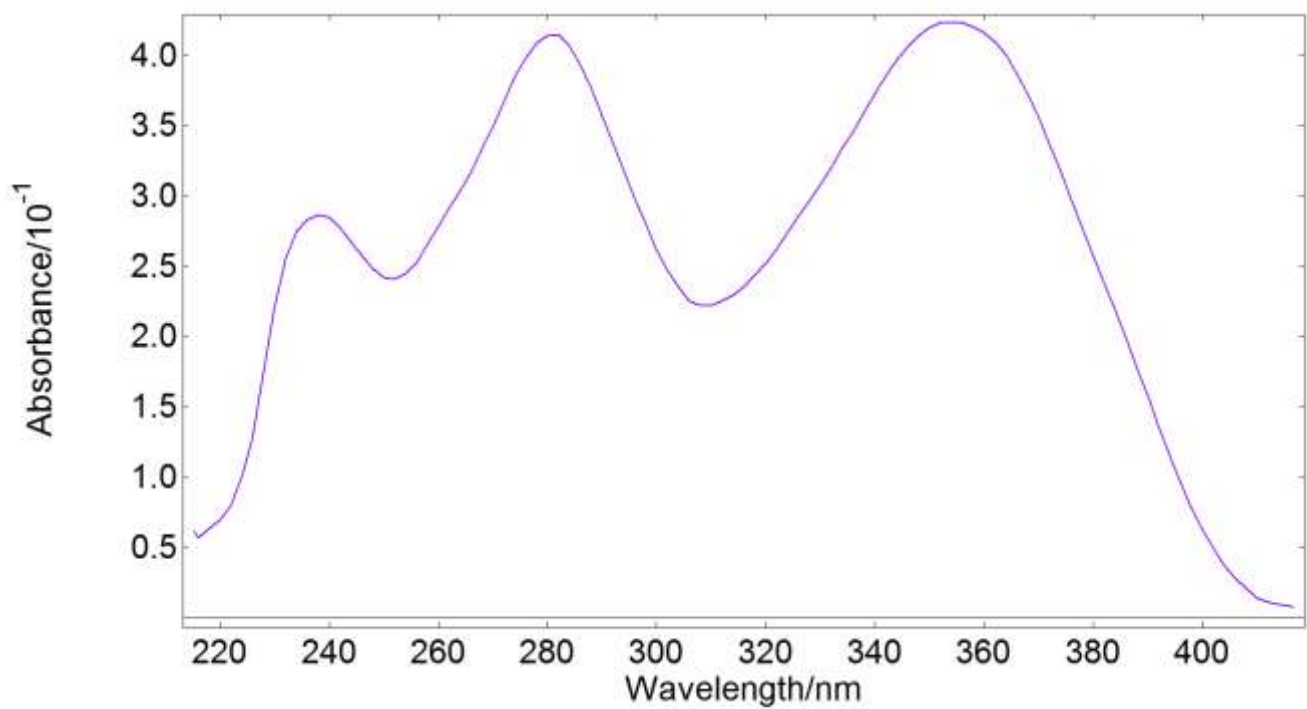
Emission of **3ca** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



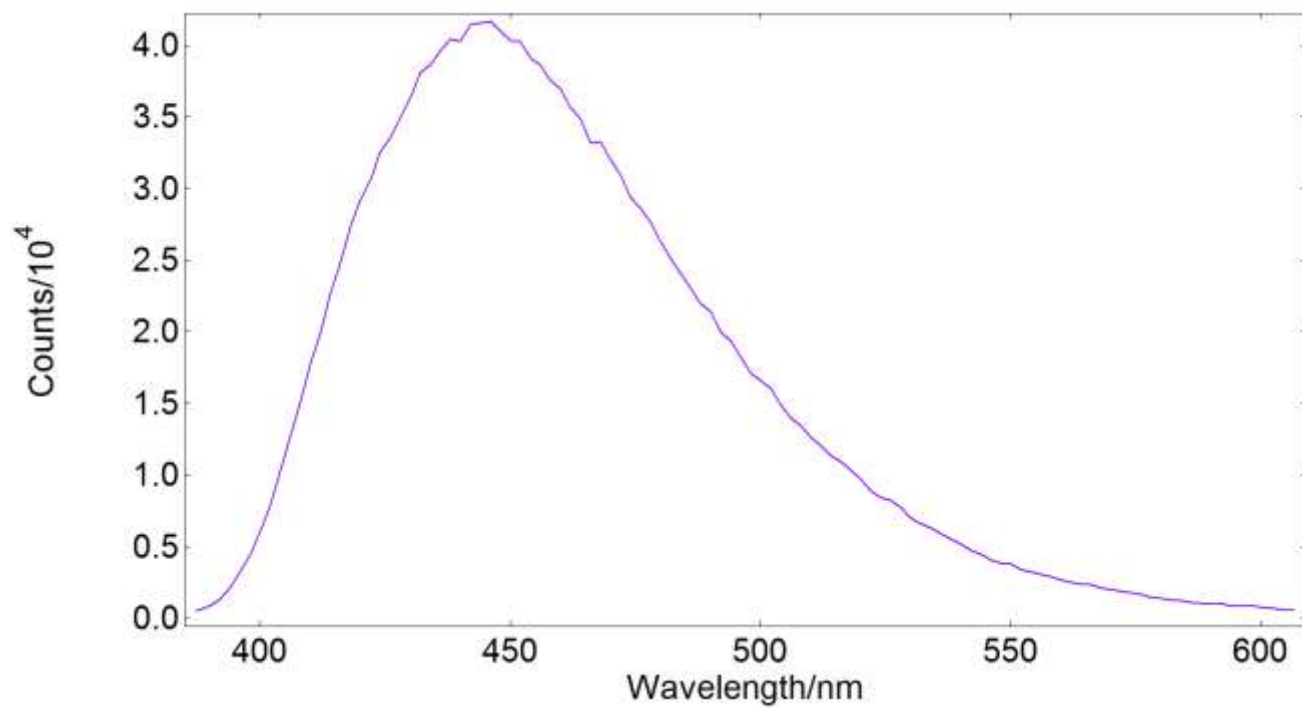
Emission of **3ca** in solid state



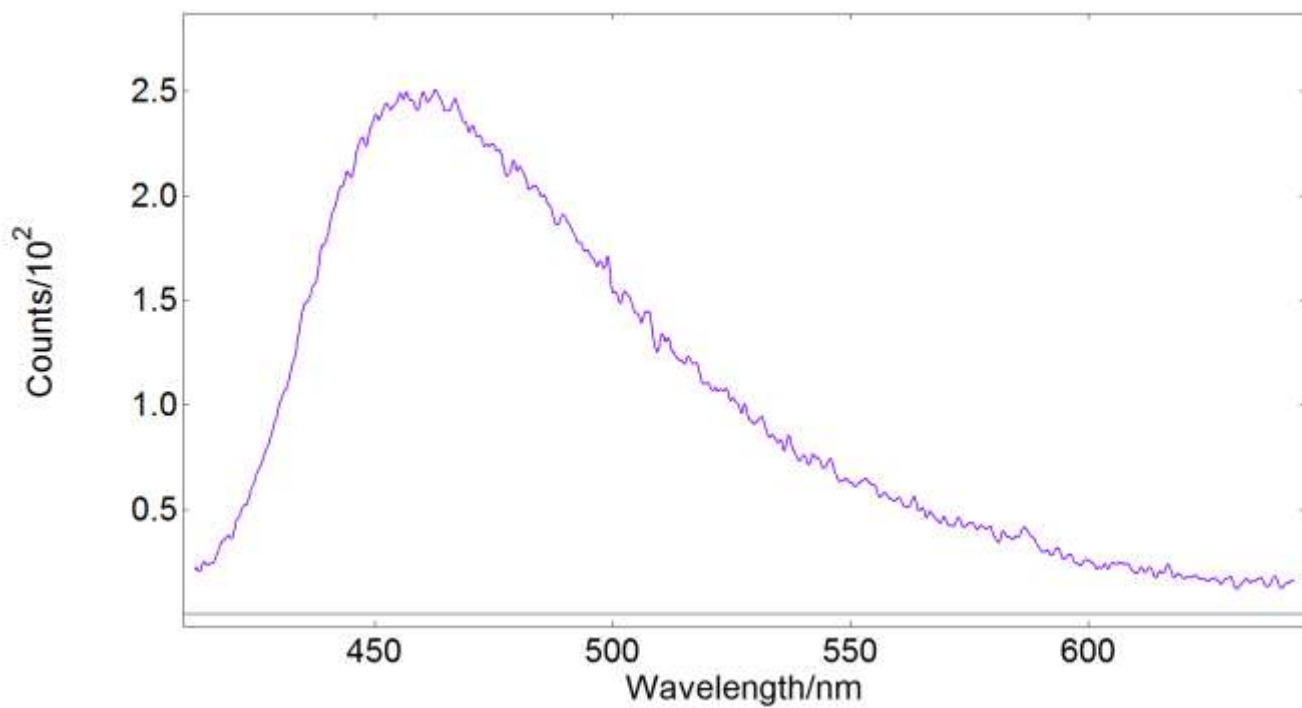
Absorption of **3da** in MeCN solution (concentration is *ca* 10<sup>-6</sup> mol/L)



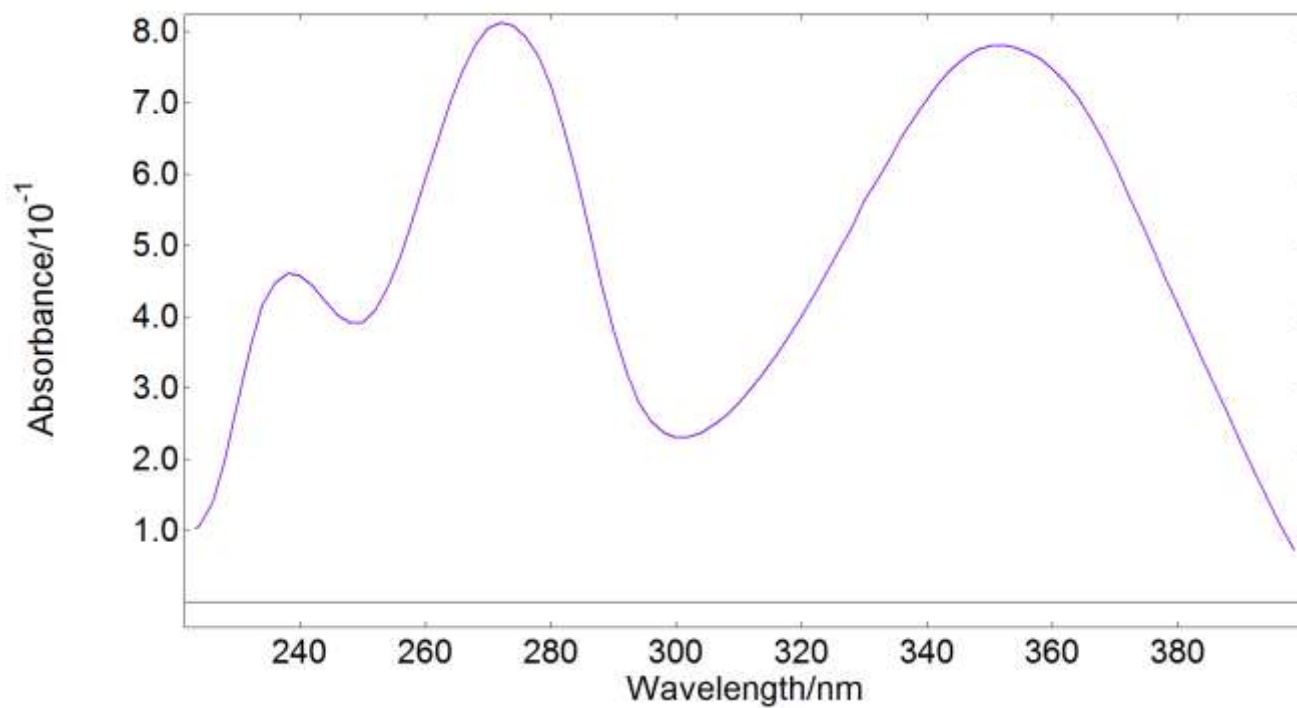
Emission of **3da** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



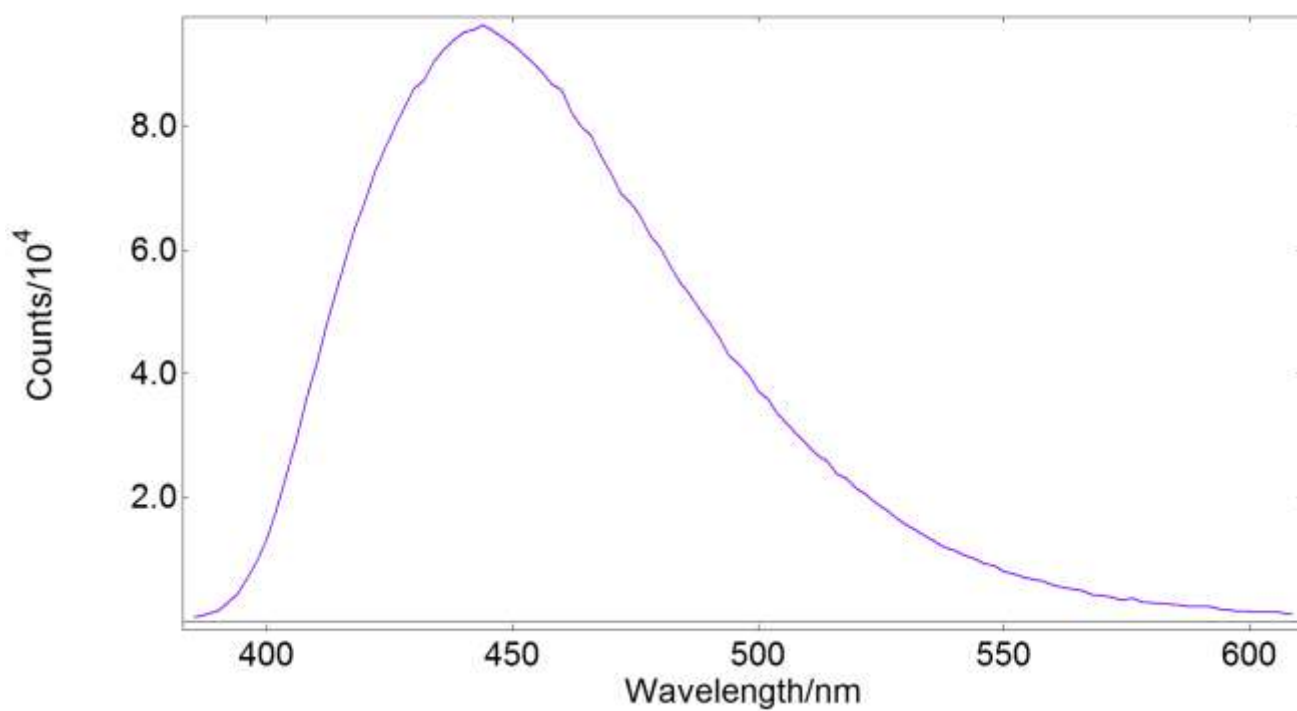
Emission of **3da** in solid state



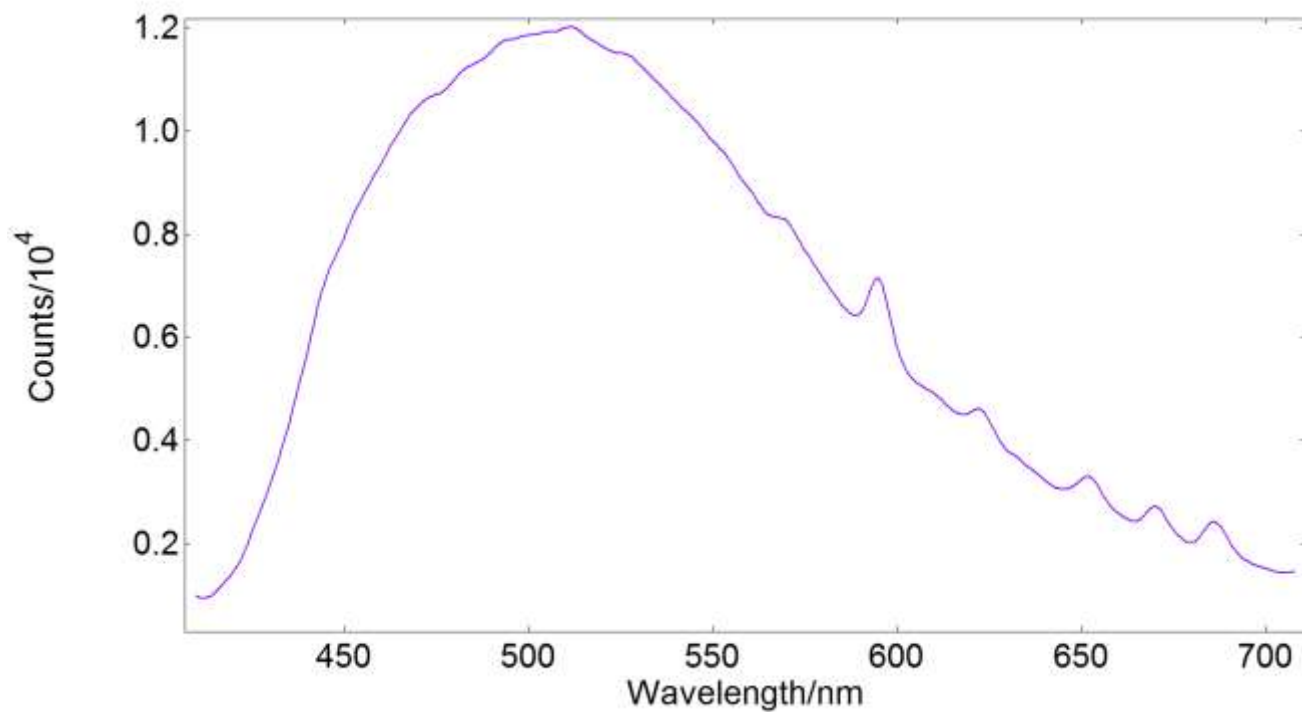
Absorption of **3ea** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



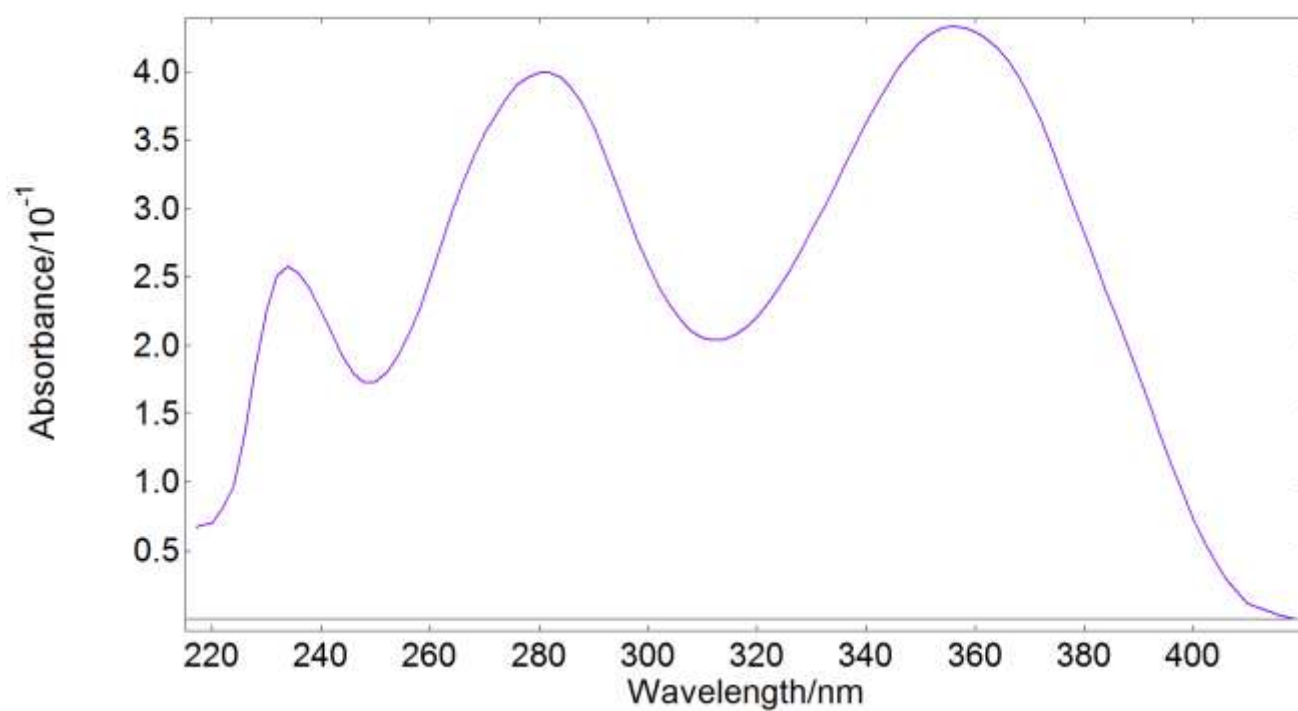
Emission of **3ea** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



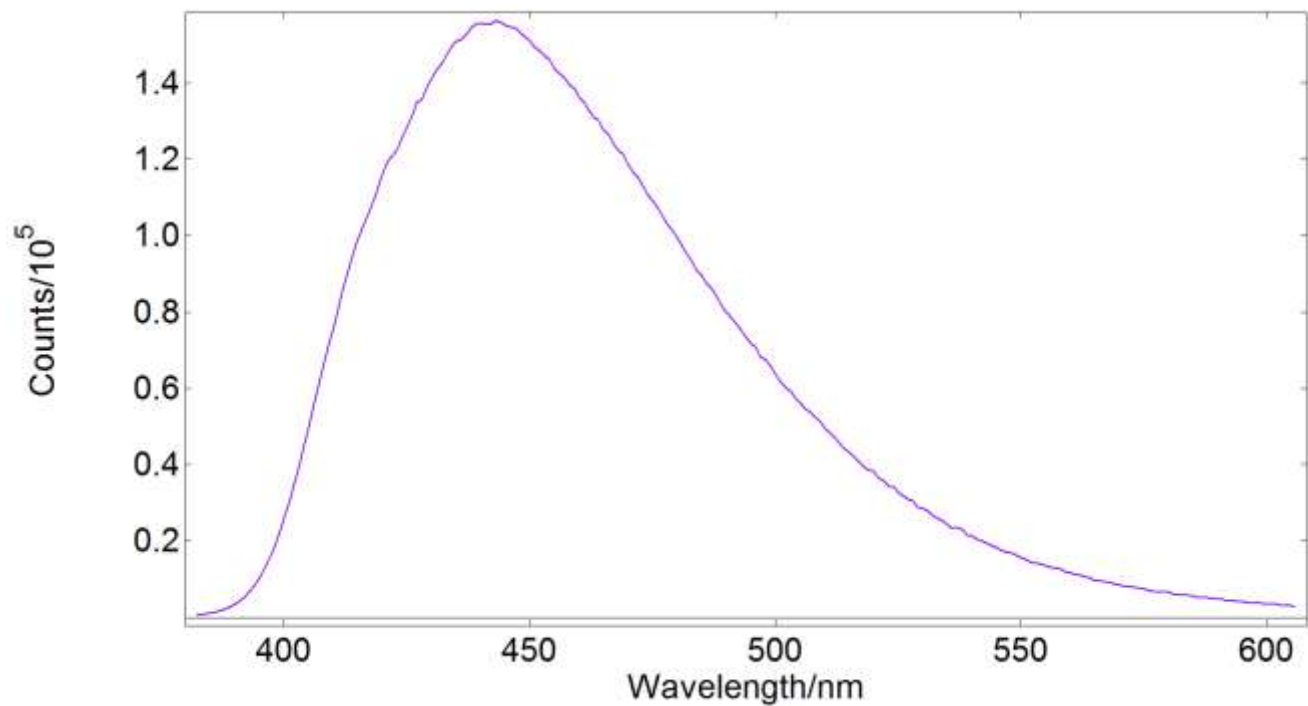
Emission of **3ea** in solid state



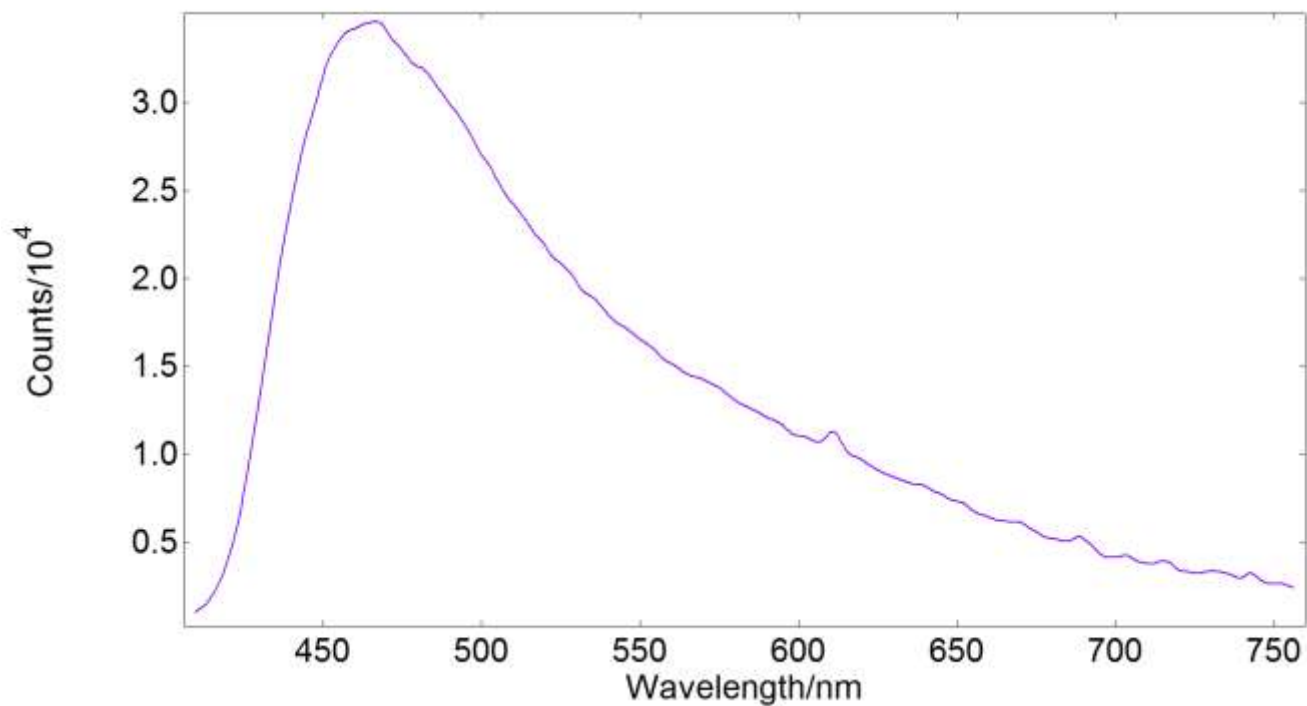
Absorption of **3fa** in MeCN solution (concentration is *ca* 10<sup>-6</sup> mol/L)



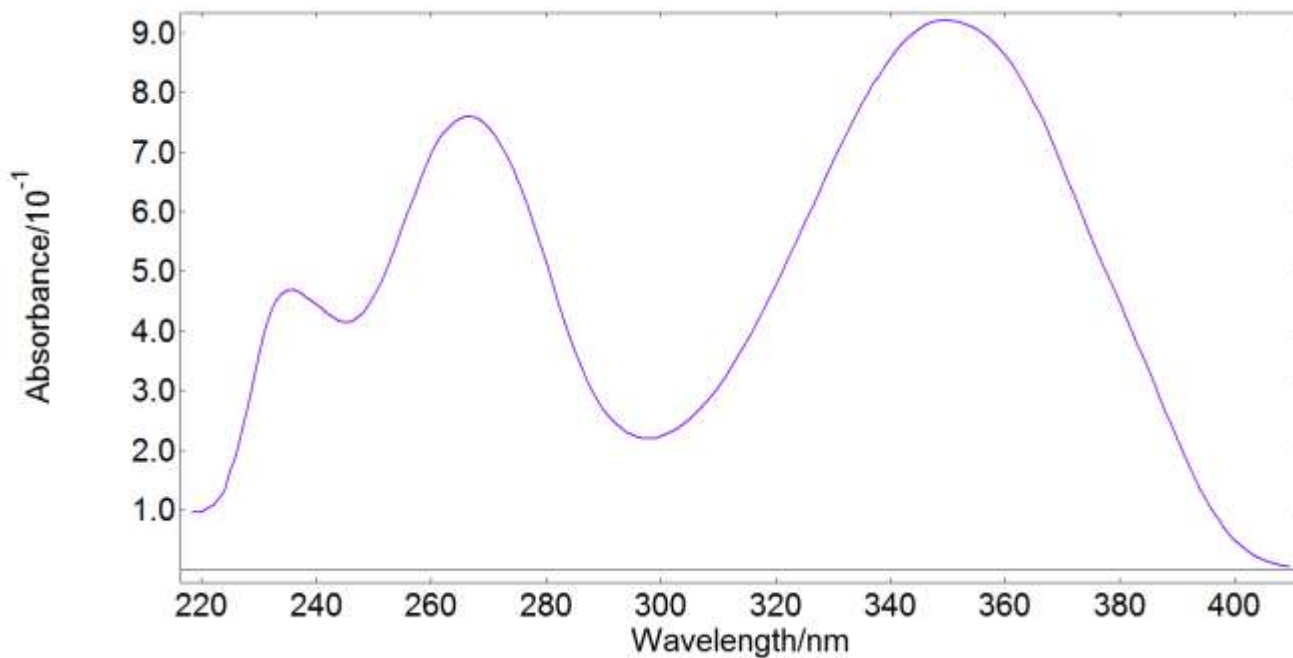
Emission of **3fa** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



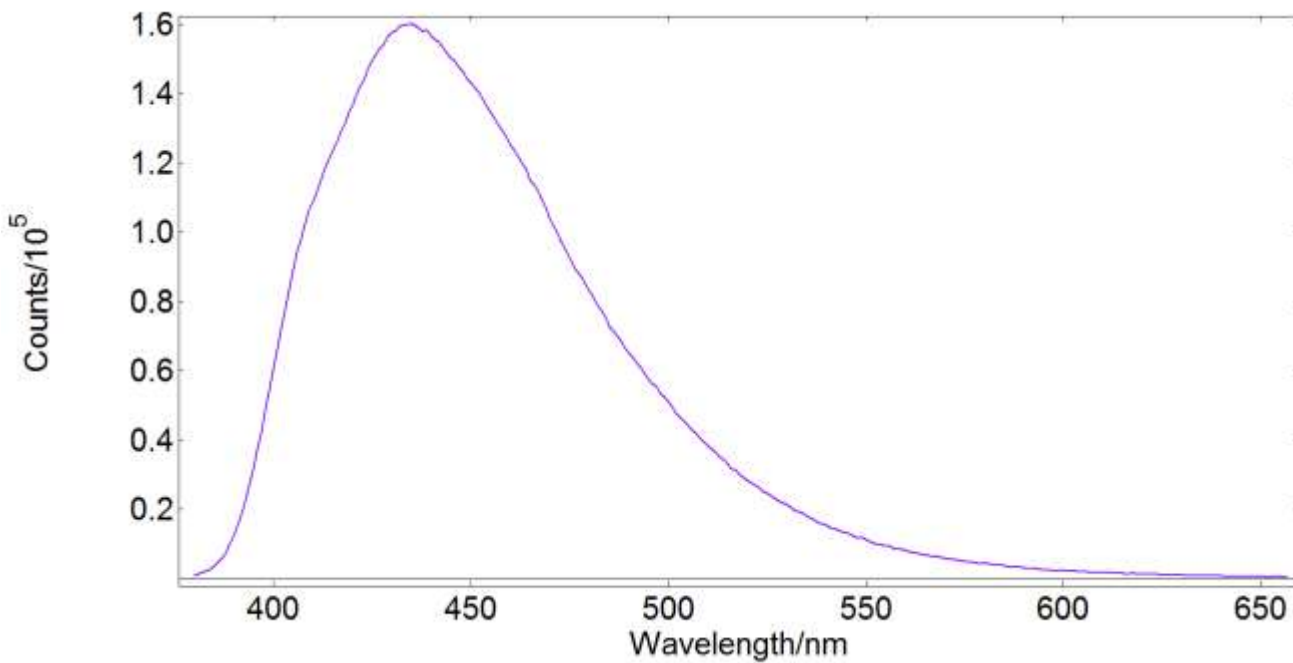
Emission of **3fa** in solid state



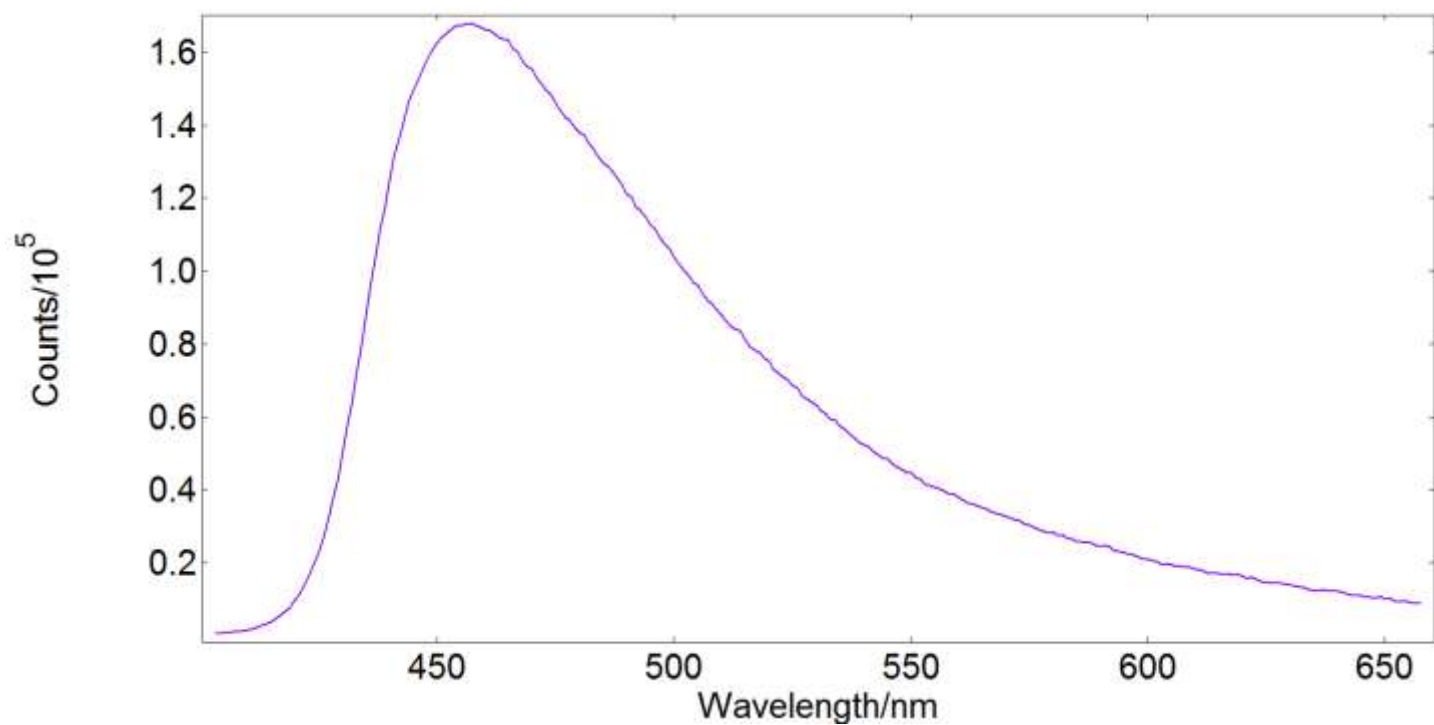
Absorption of **3ab** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



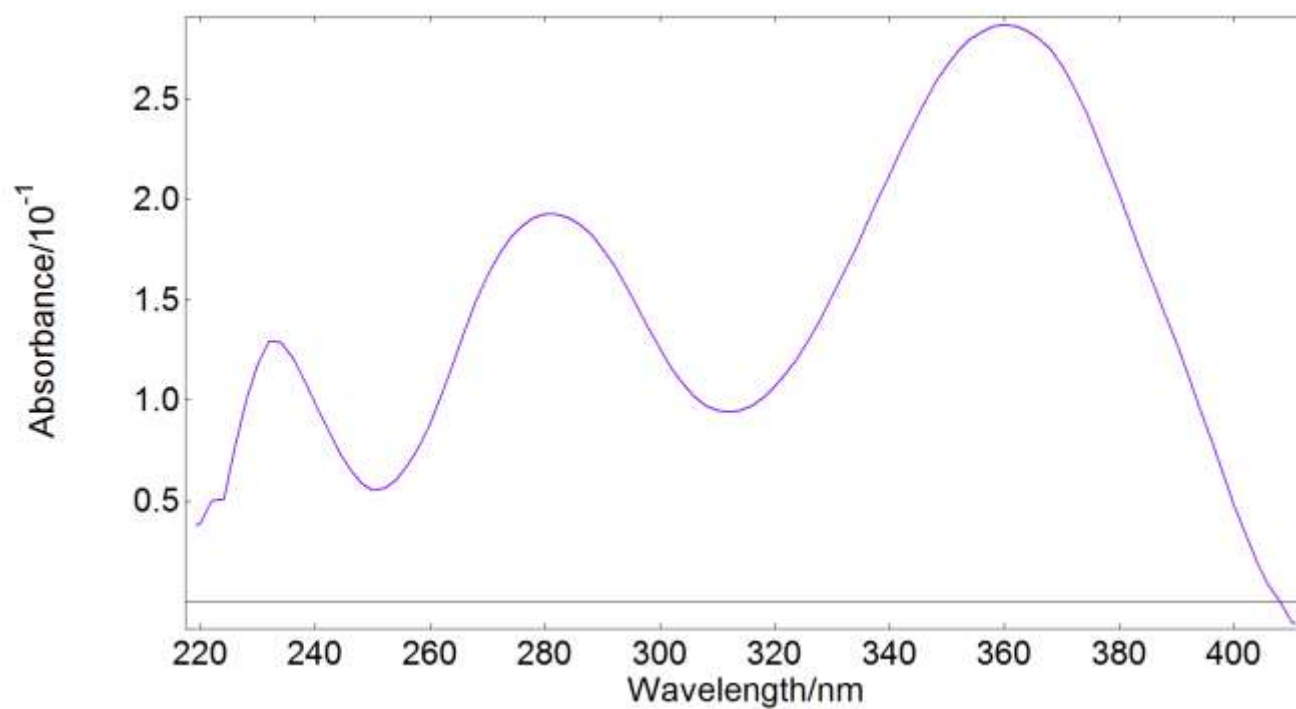
Emission of **3ab** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



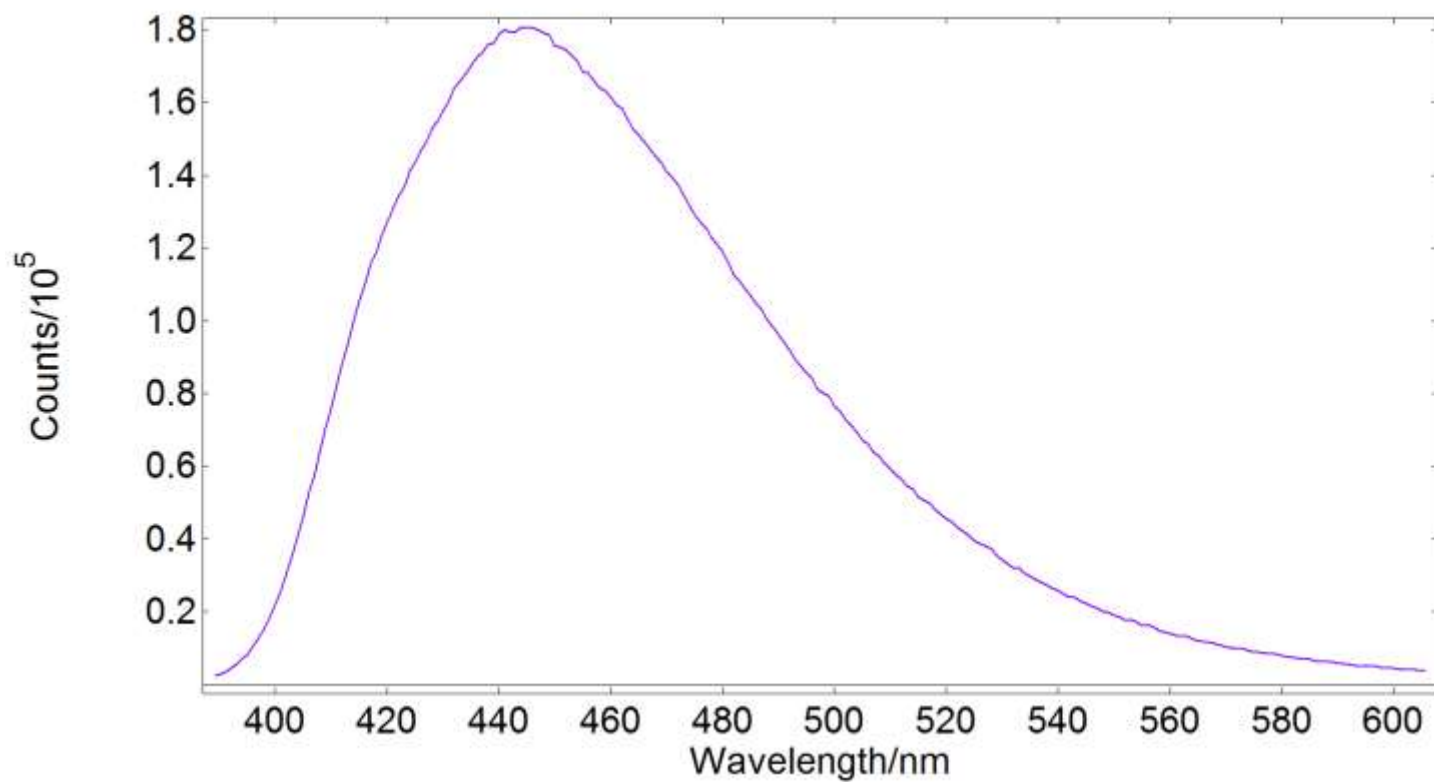
Emission of **3ab** in solid state



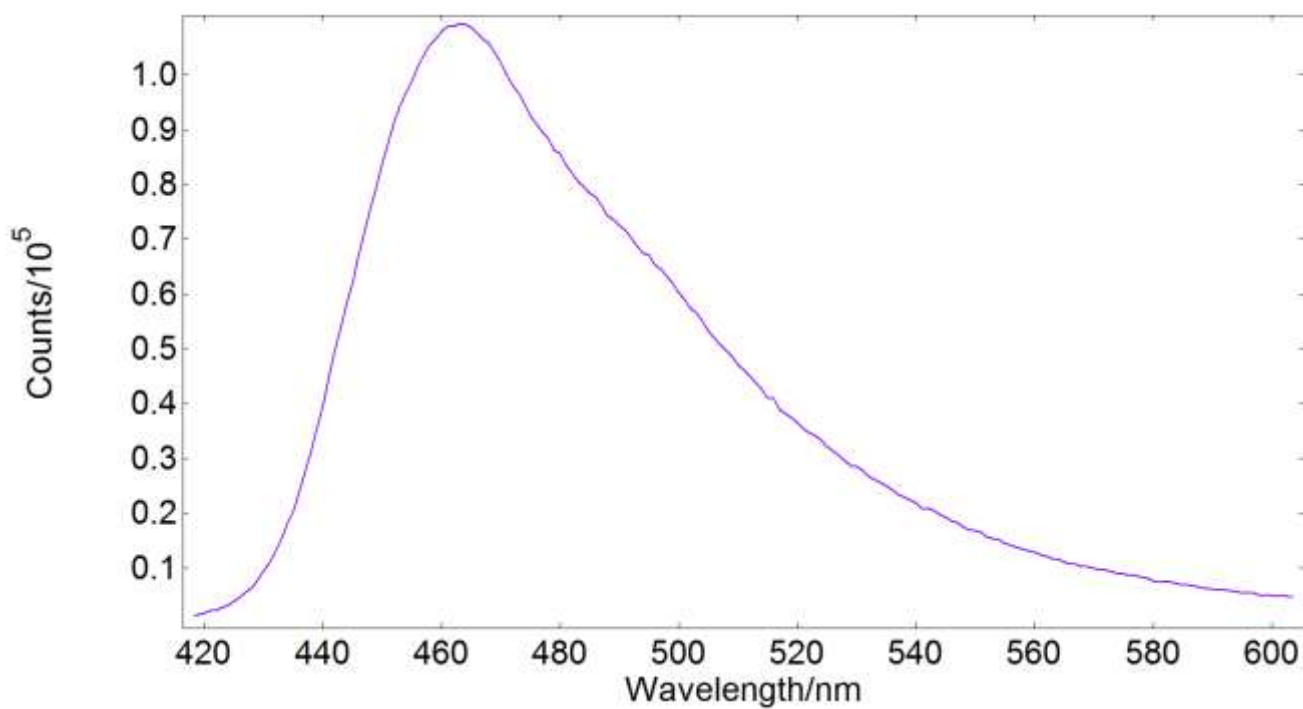
Absorption of **3bb** in MeCN solution (concentration is *ca* 10<sup>-6</sup> mol/L)



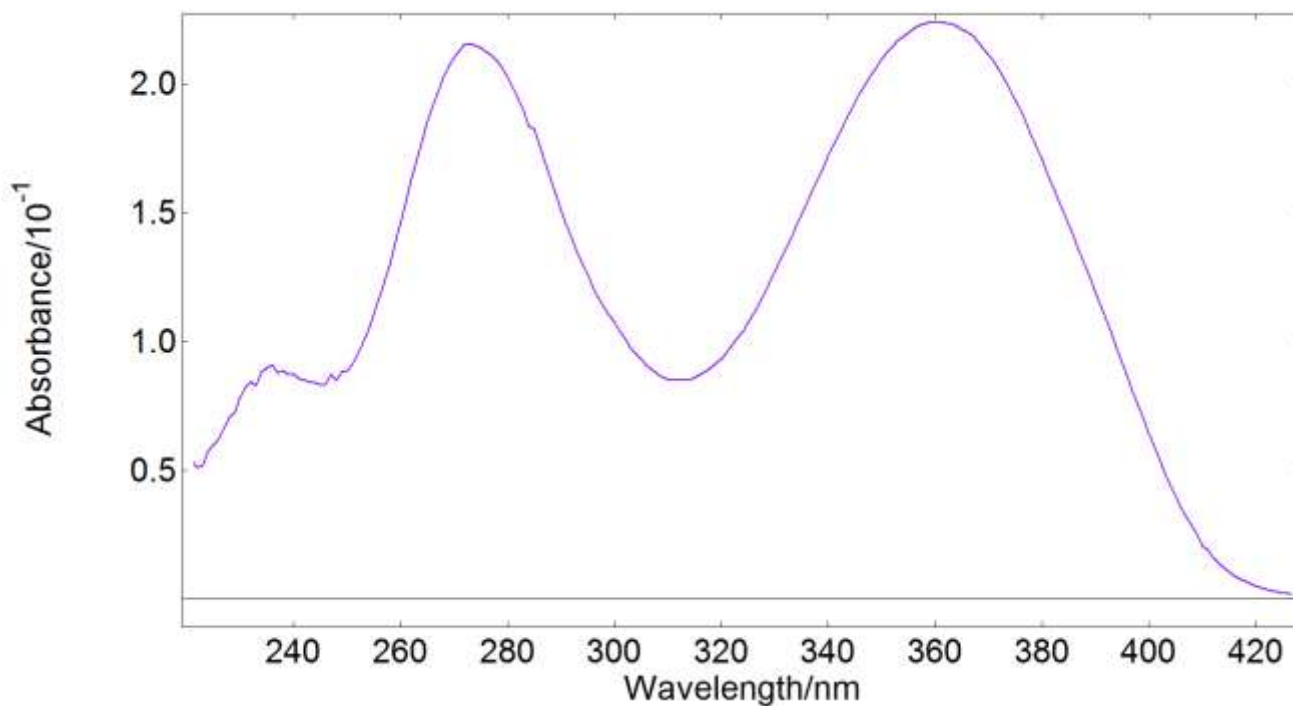
Emission of **3bb** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



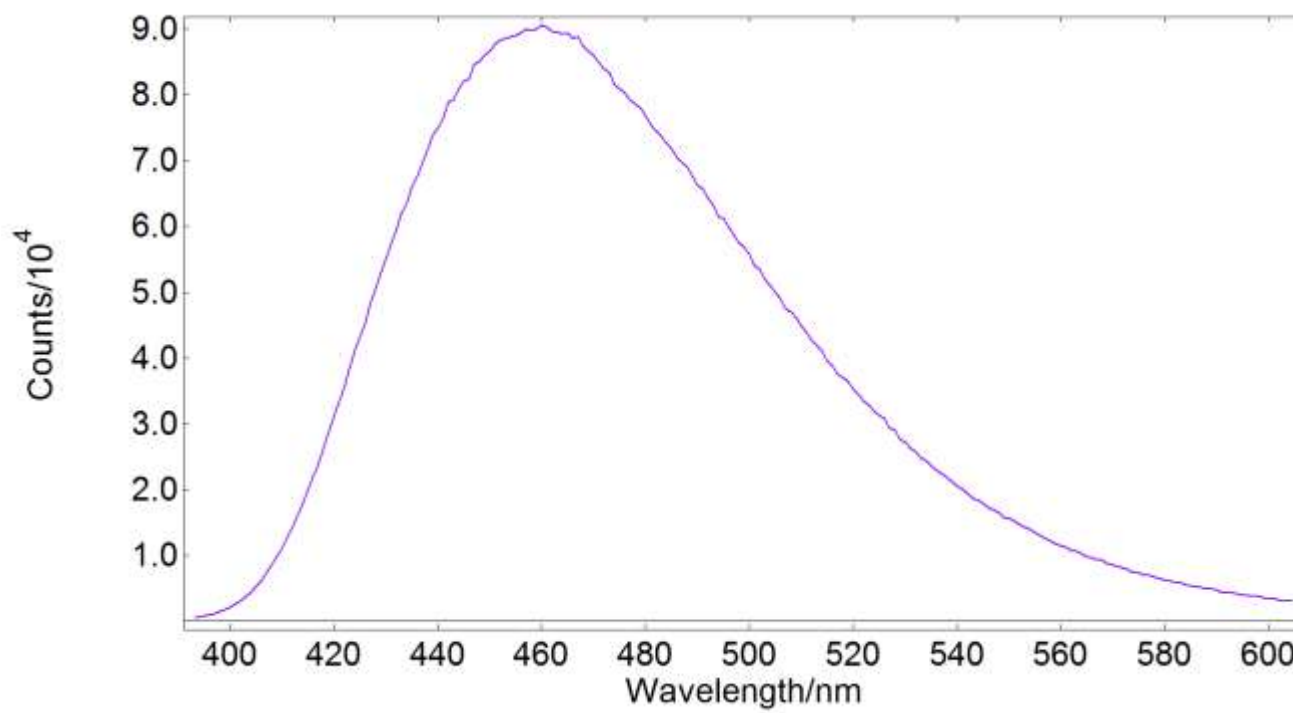
Emission of **3bb** in solid state



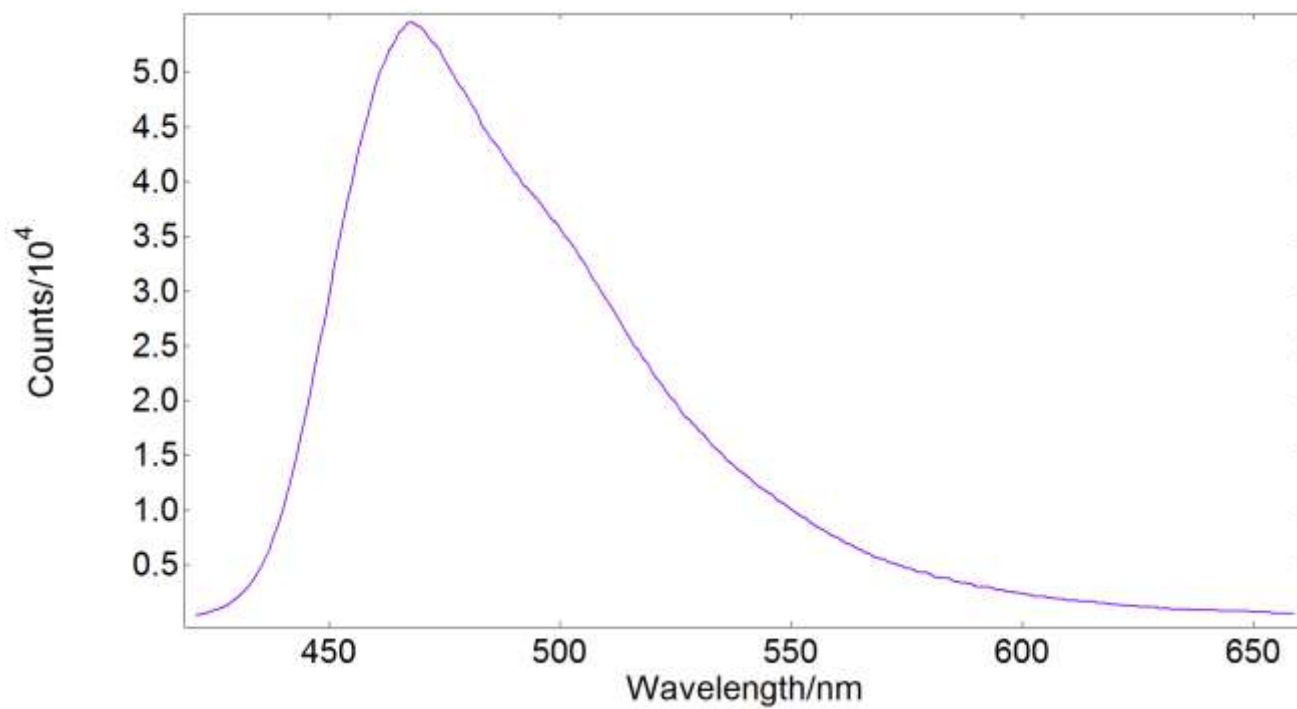
Absorption of **3cb** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



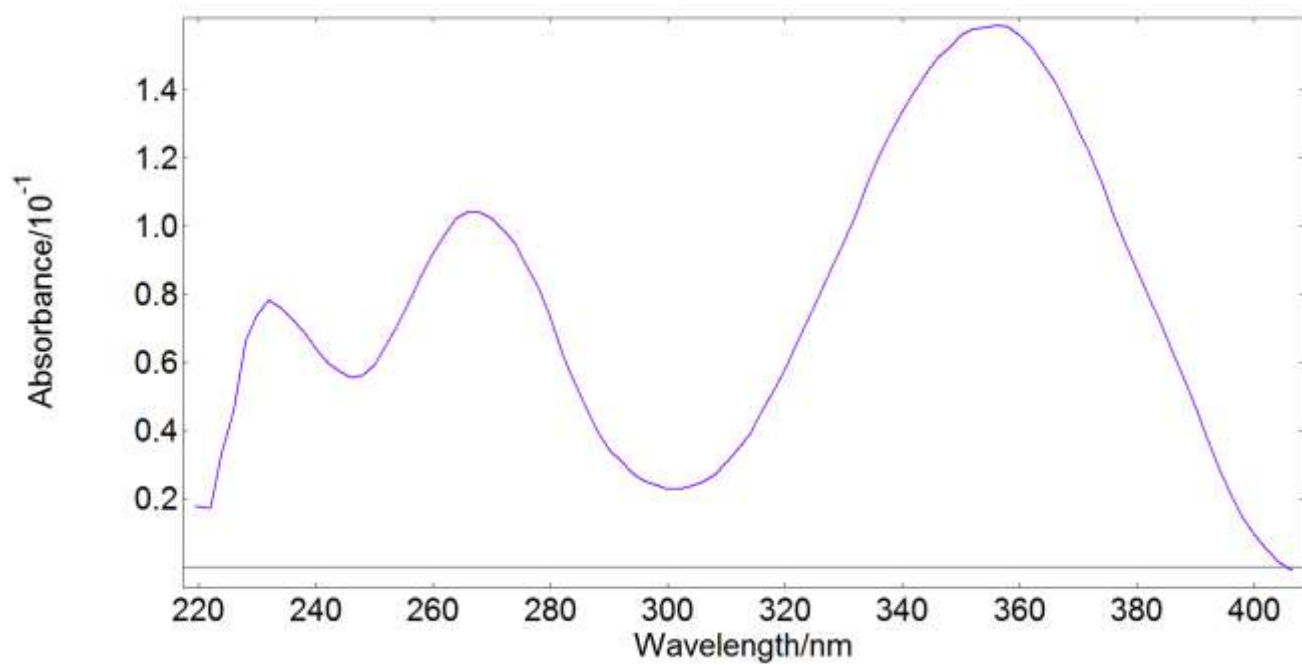
Emission of **3cb** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



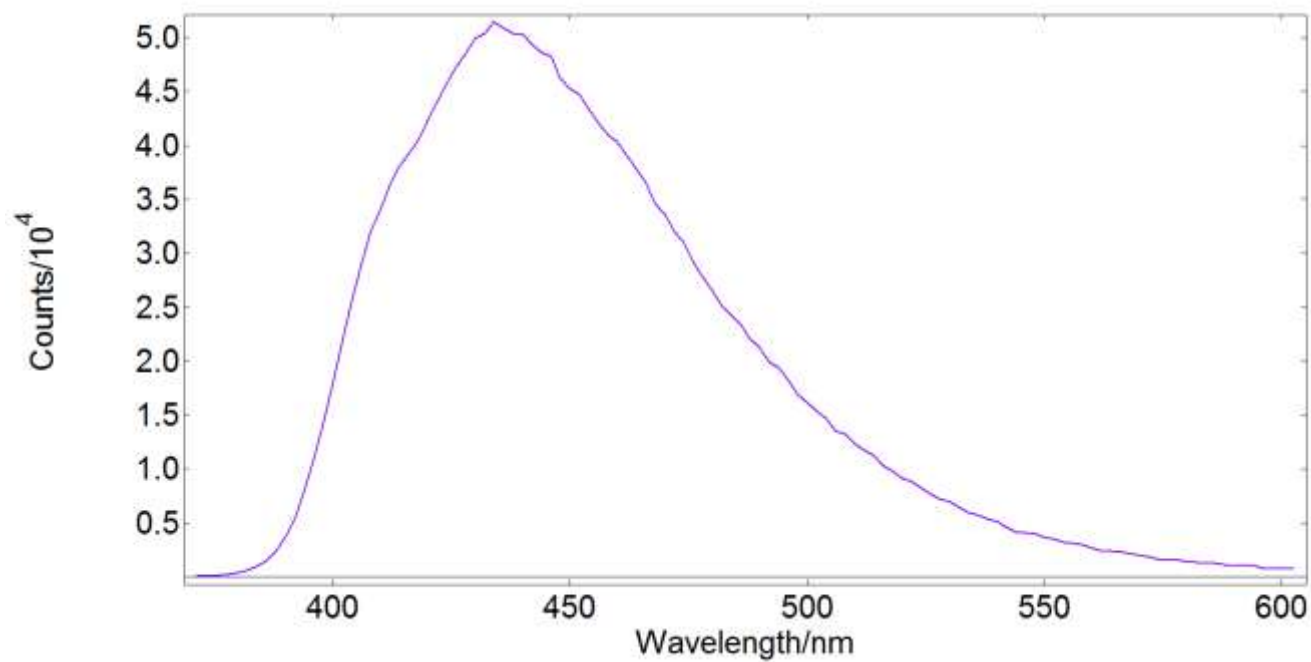
Emission of **3cb** in solid state



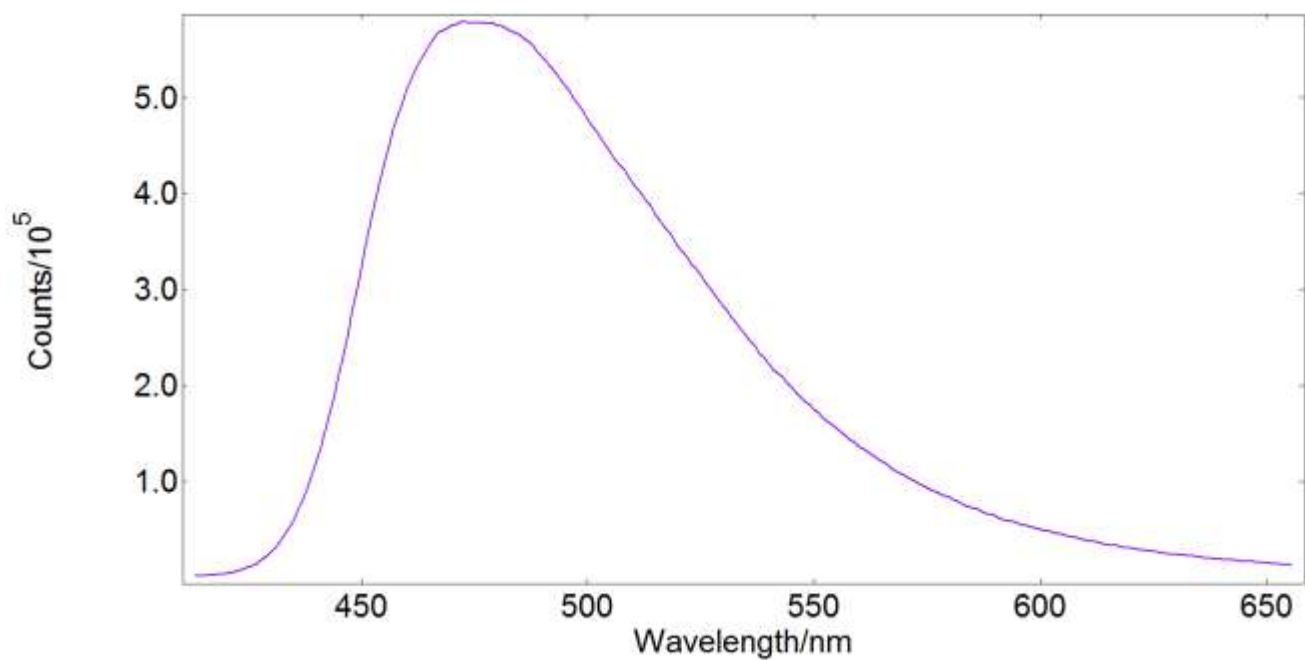
Absorption of **3ac** in MeCN solution (concentration is *ca* 10<sup>-6</sup> mol/L)



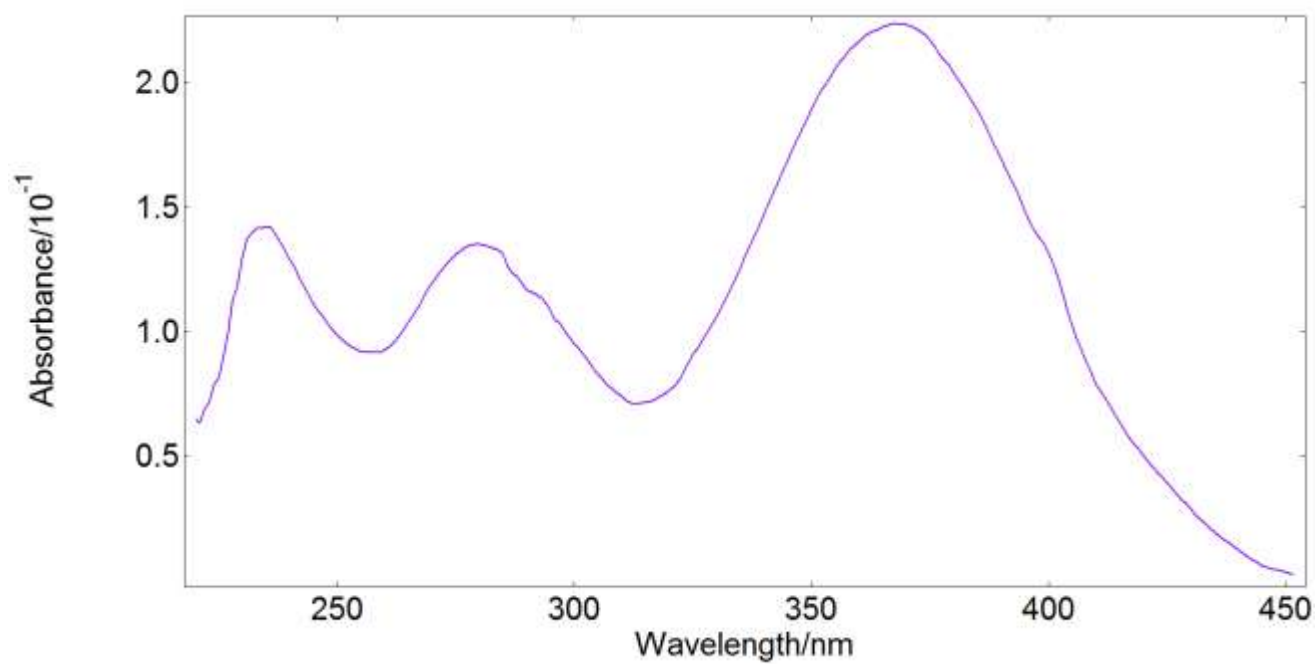
Emission of **3ac** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



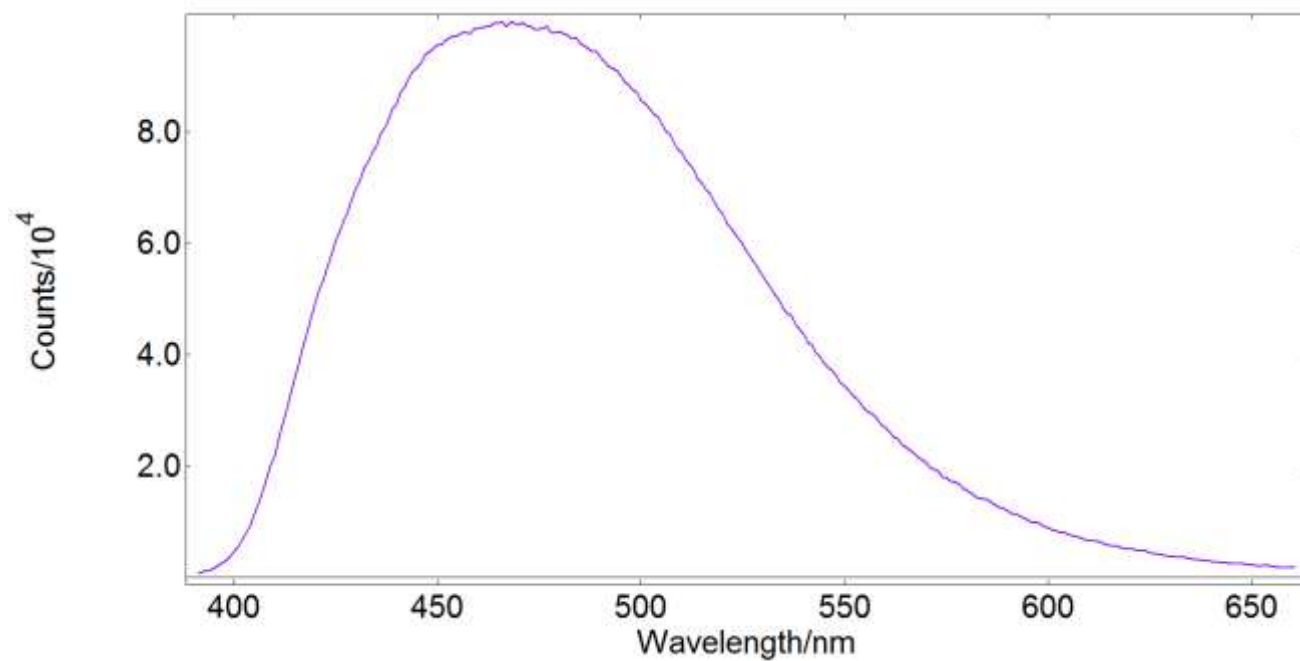
Emission of **3ac** in solid state



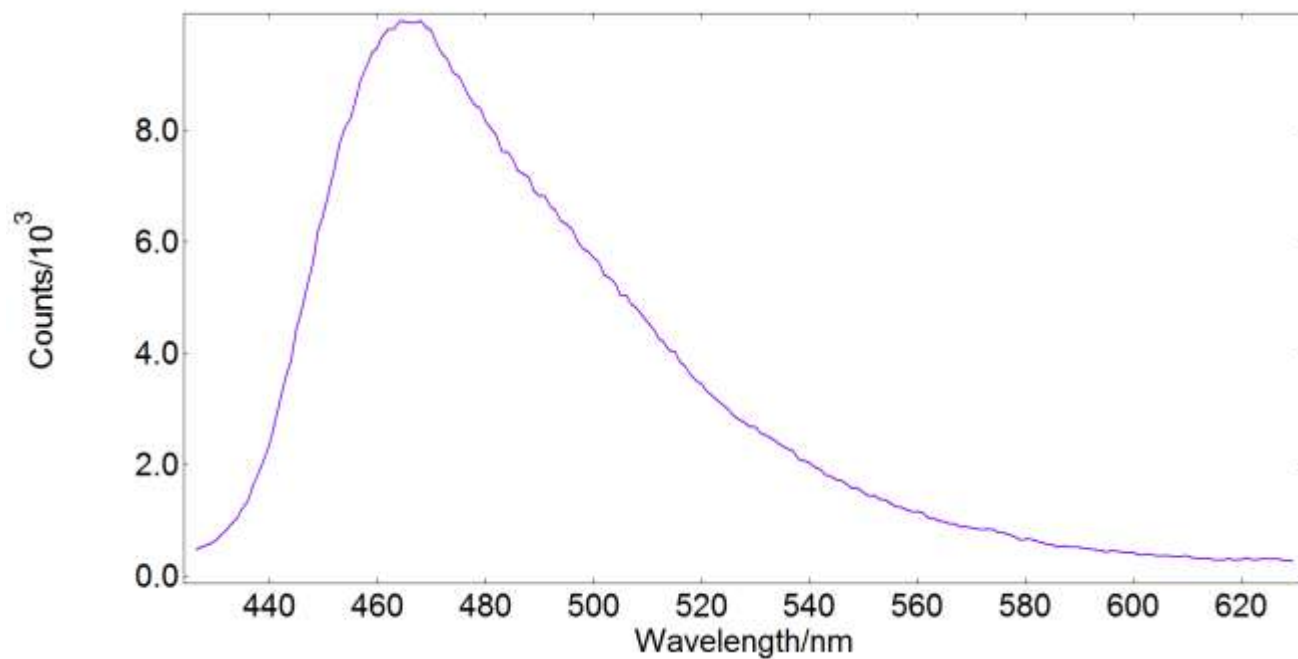
Absorption of **3bc** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



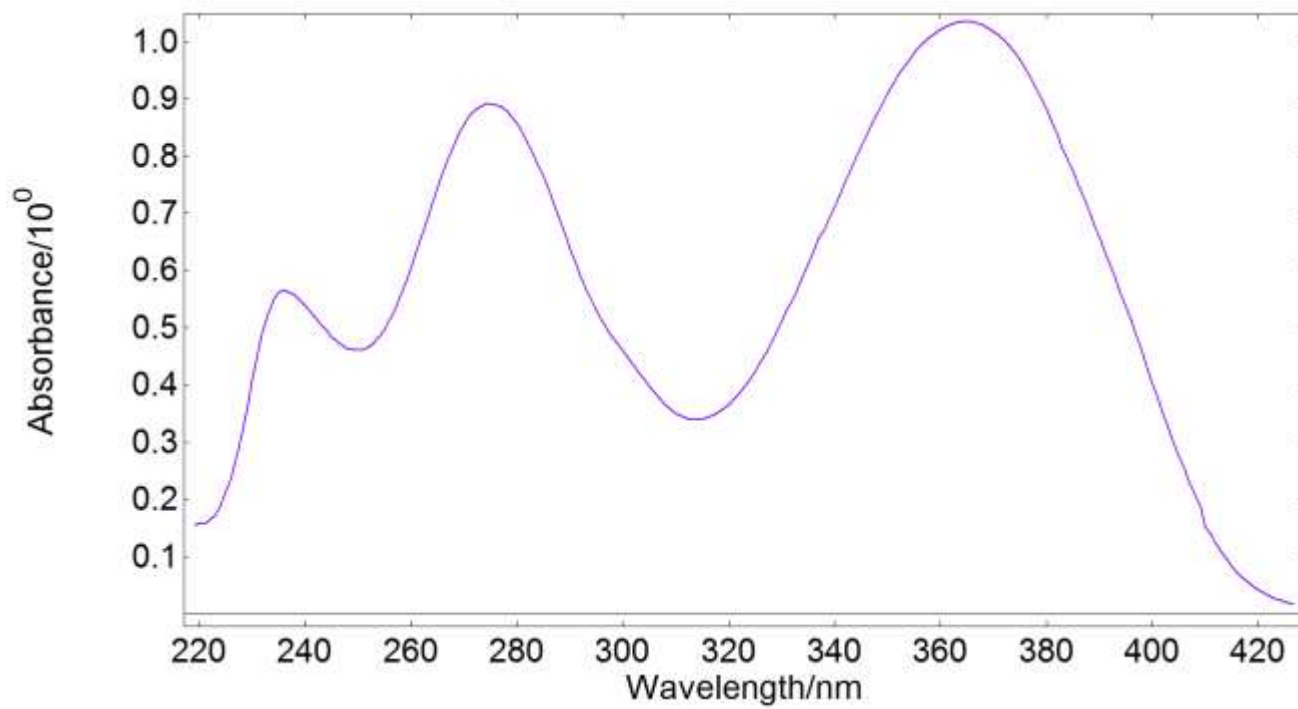
Emission of **3bc** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



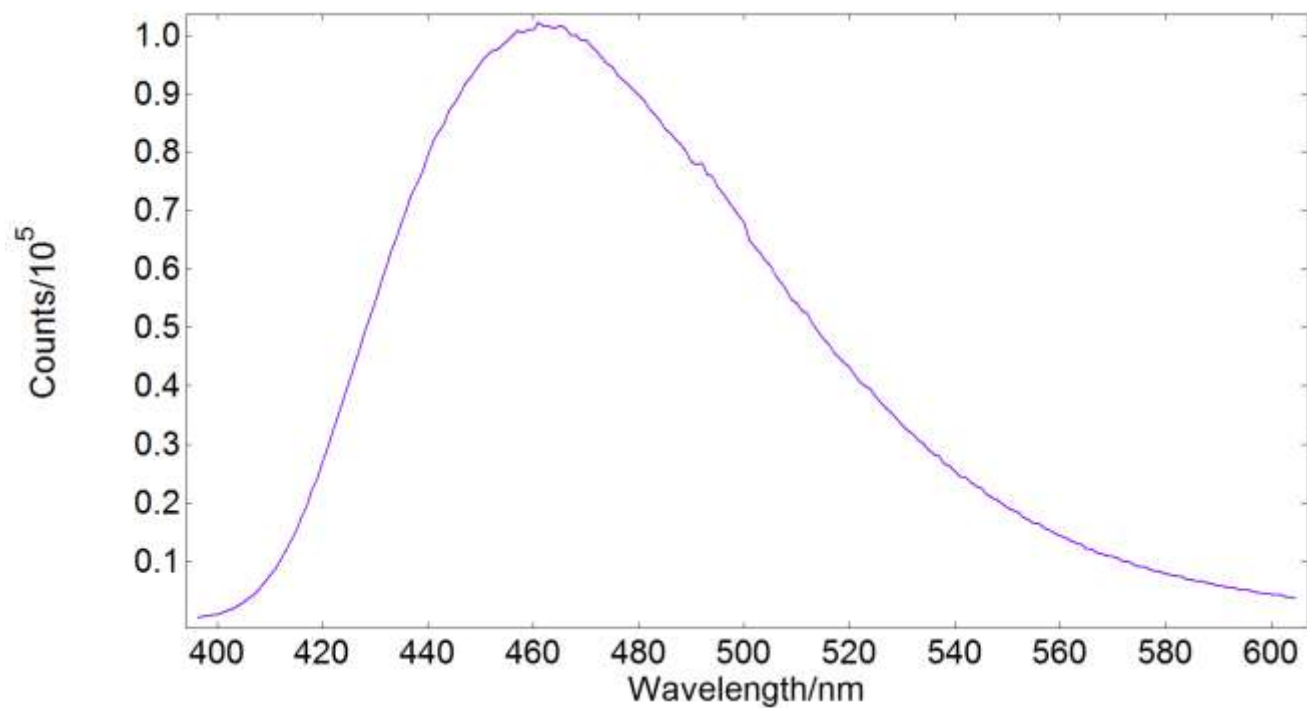
Emission of **3bc** in solid state



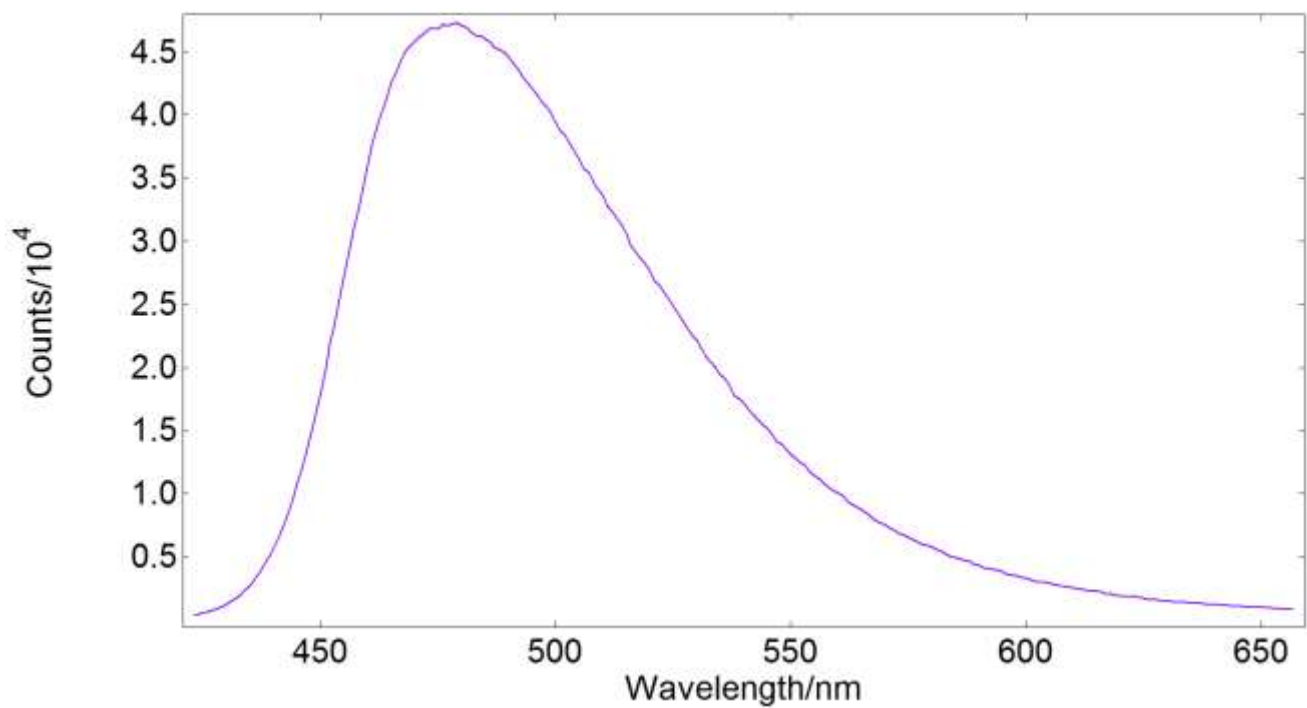
Absorption of **3cc** in MeCN solution (concentration is *ca* 10<sup>-6</sup> mol/L)



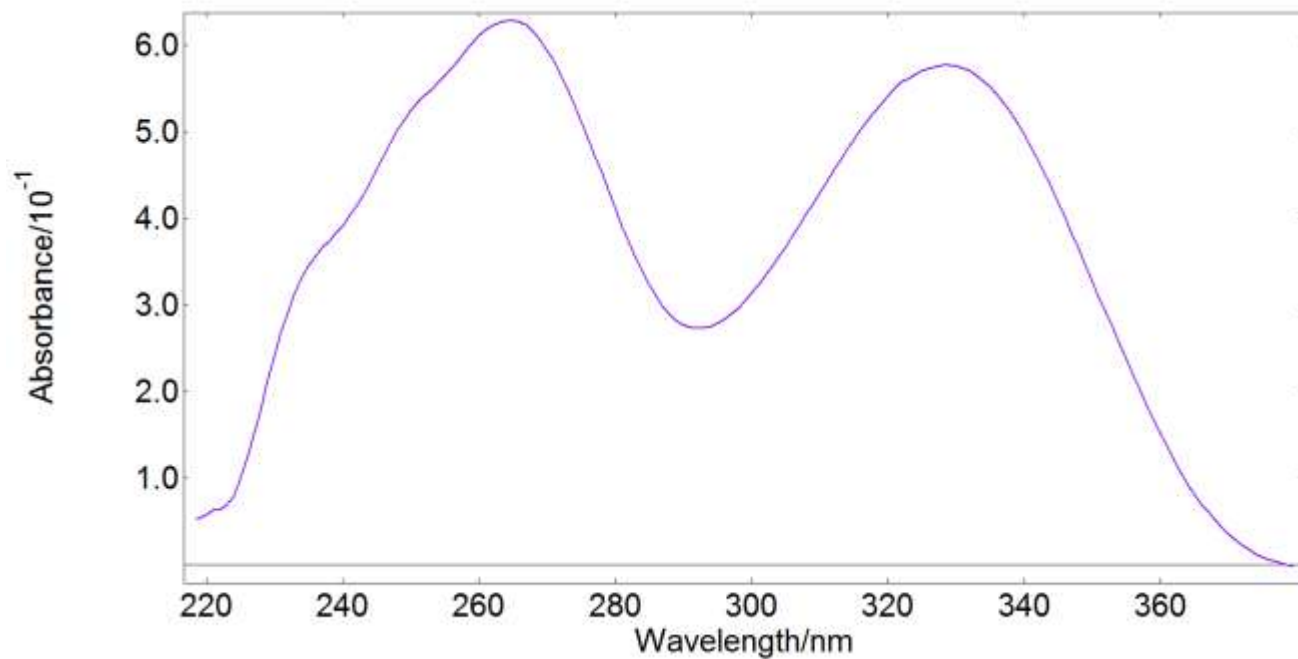
Emission of **3cc** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



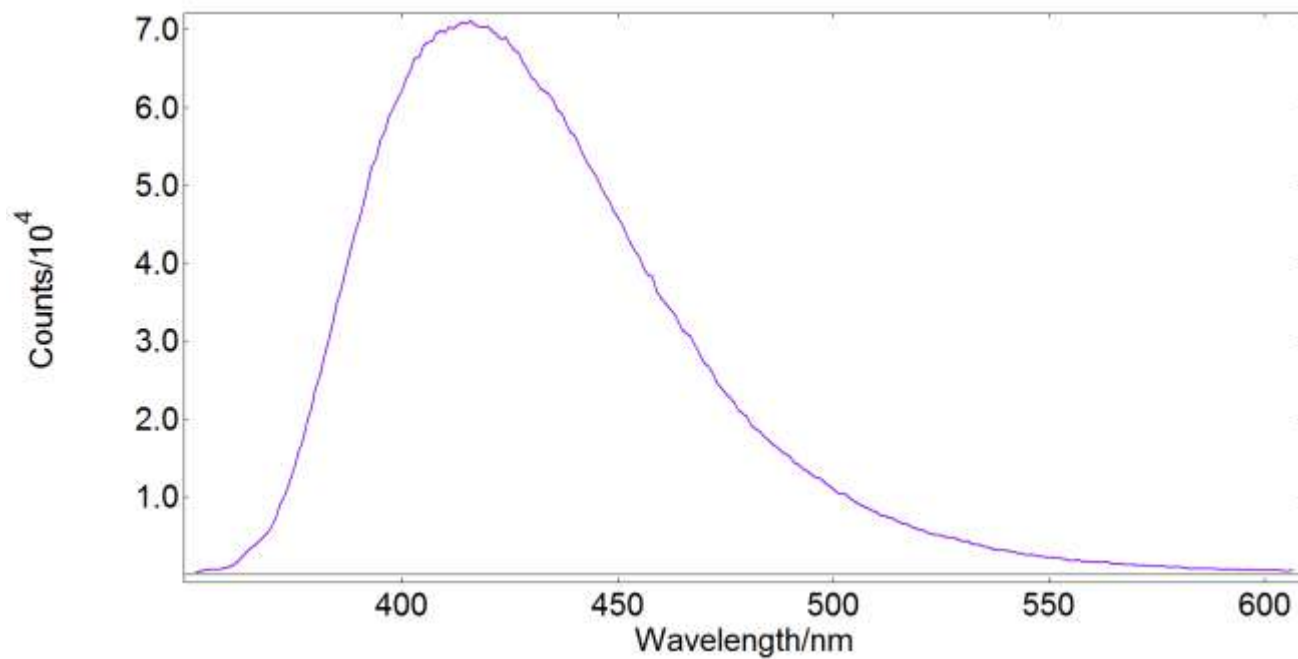
Emission of **3cc** in solid state



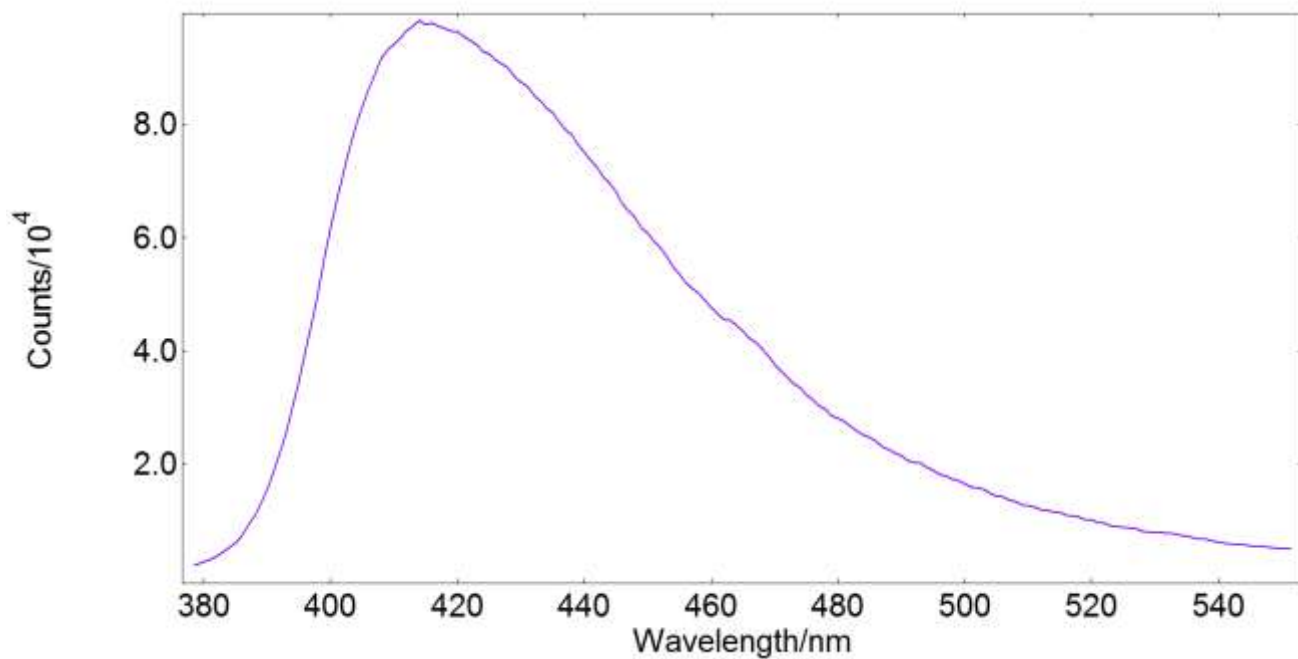
Absorption of **3ad** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



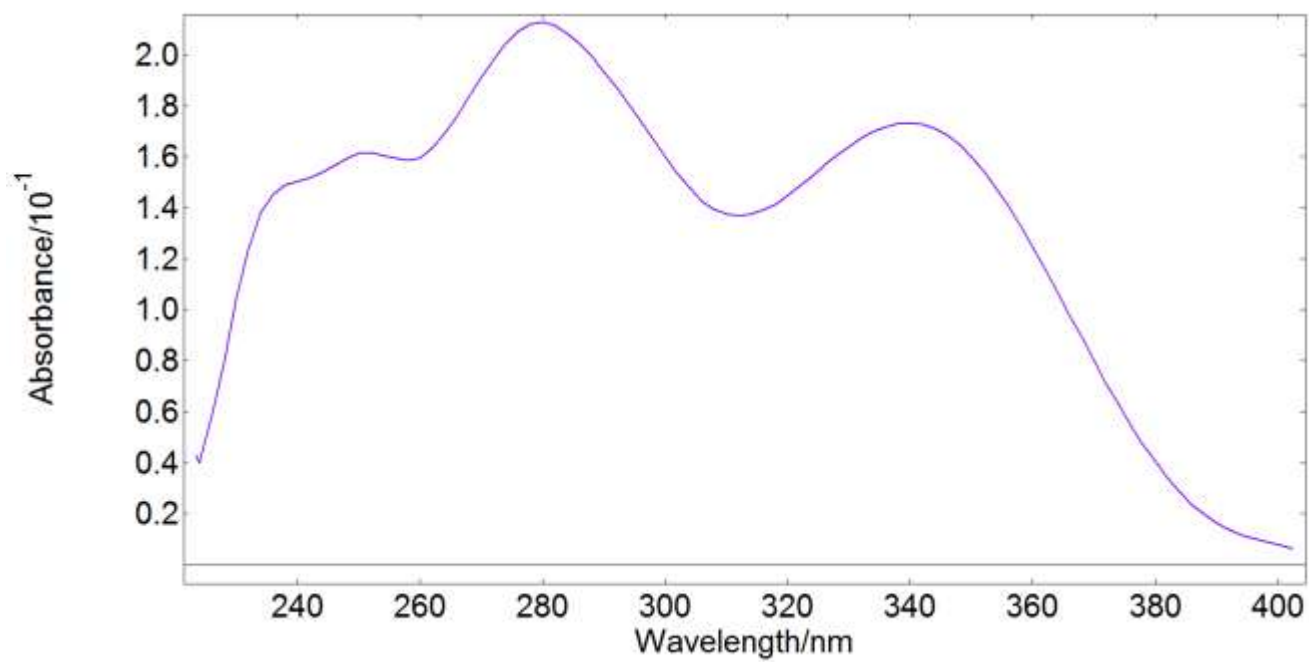
Emission of **3ad** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



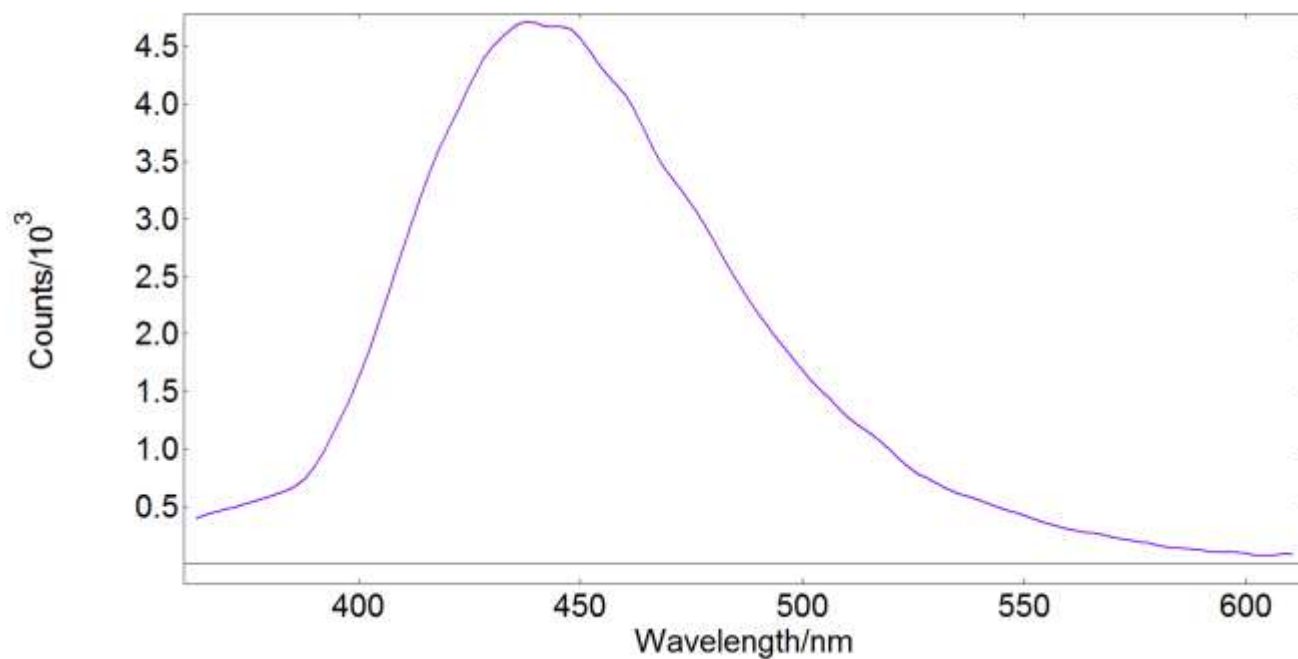
Emission of **3ad** in solid state



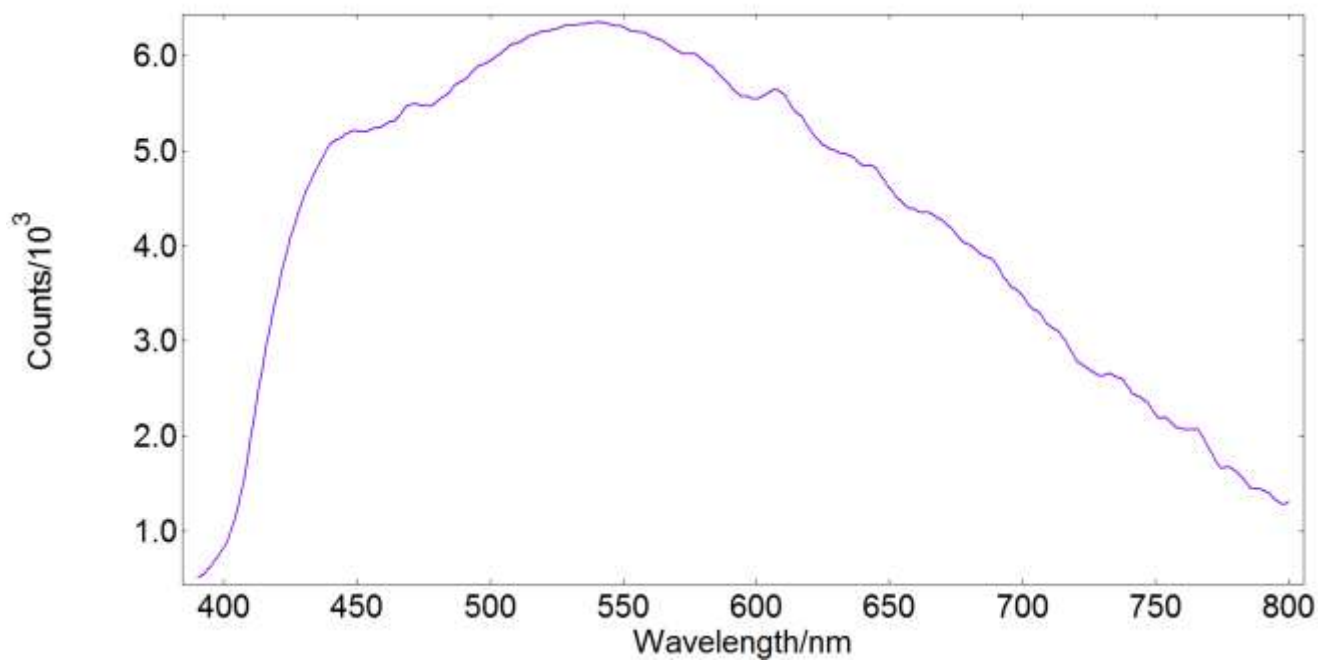
Absorption of **3bd** in MeCN solution (concentration is *ca* 10<sup>-6</sup> mol/L)



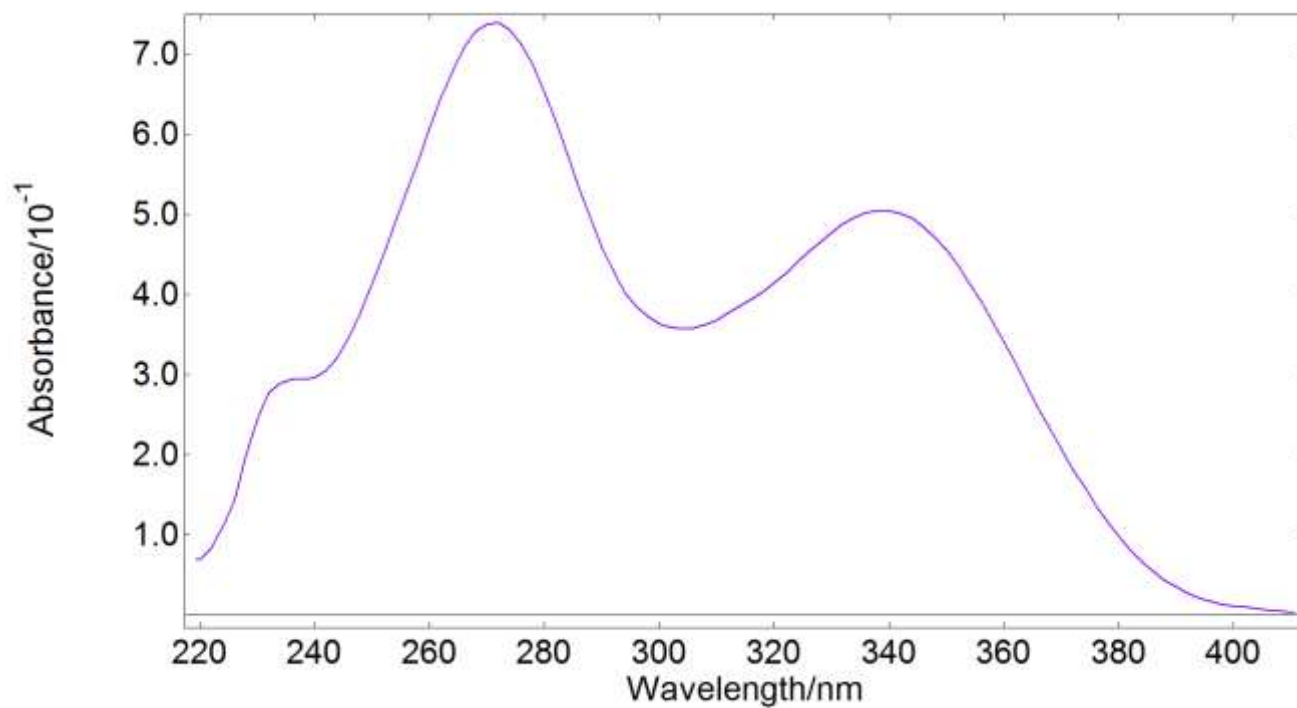
Emission of **3bd** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



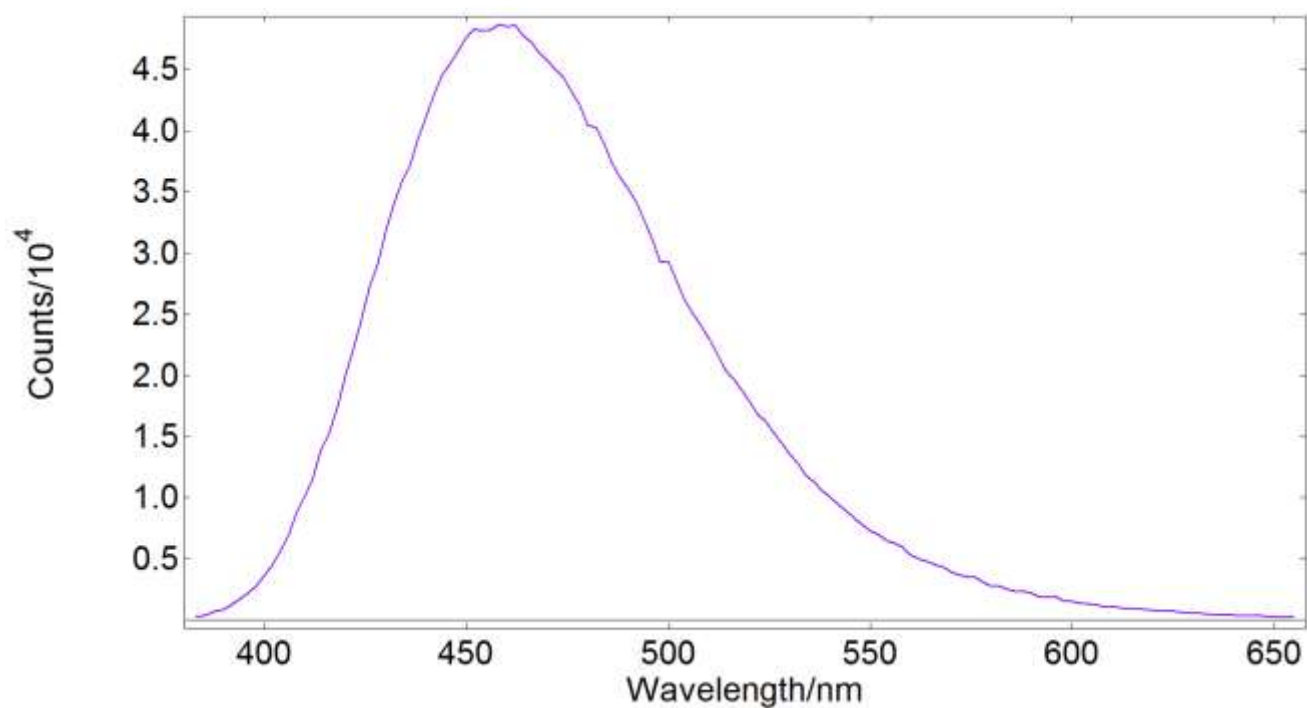
Emission of **3bd** in solid state



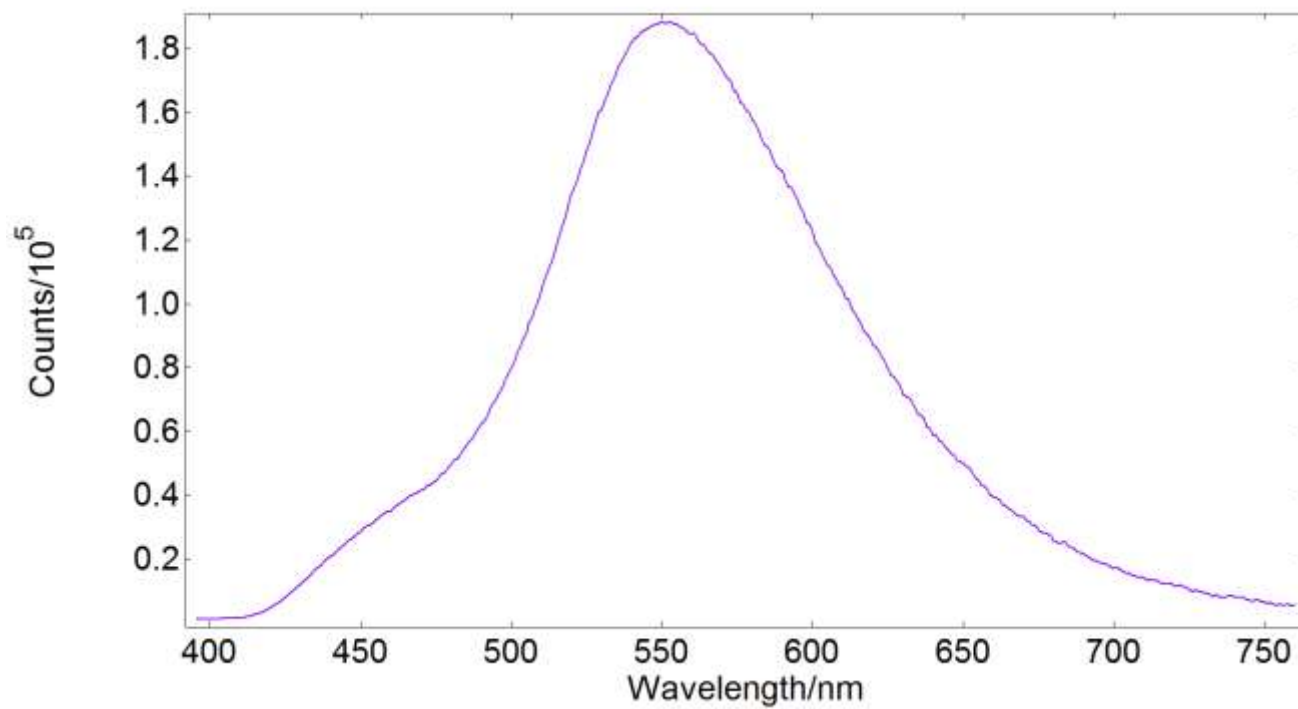
Absorption of **3cd** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



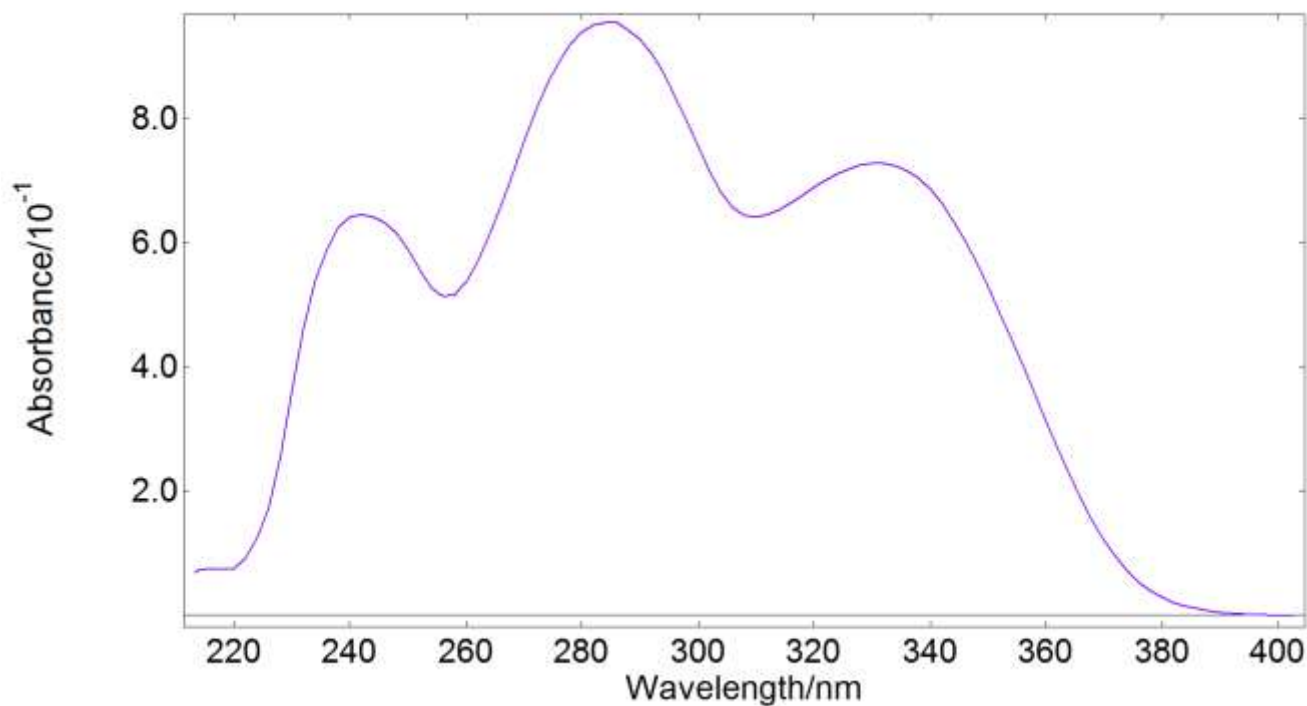
Emission of **3cd** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



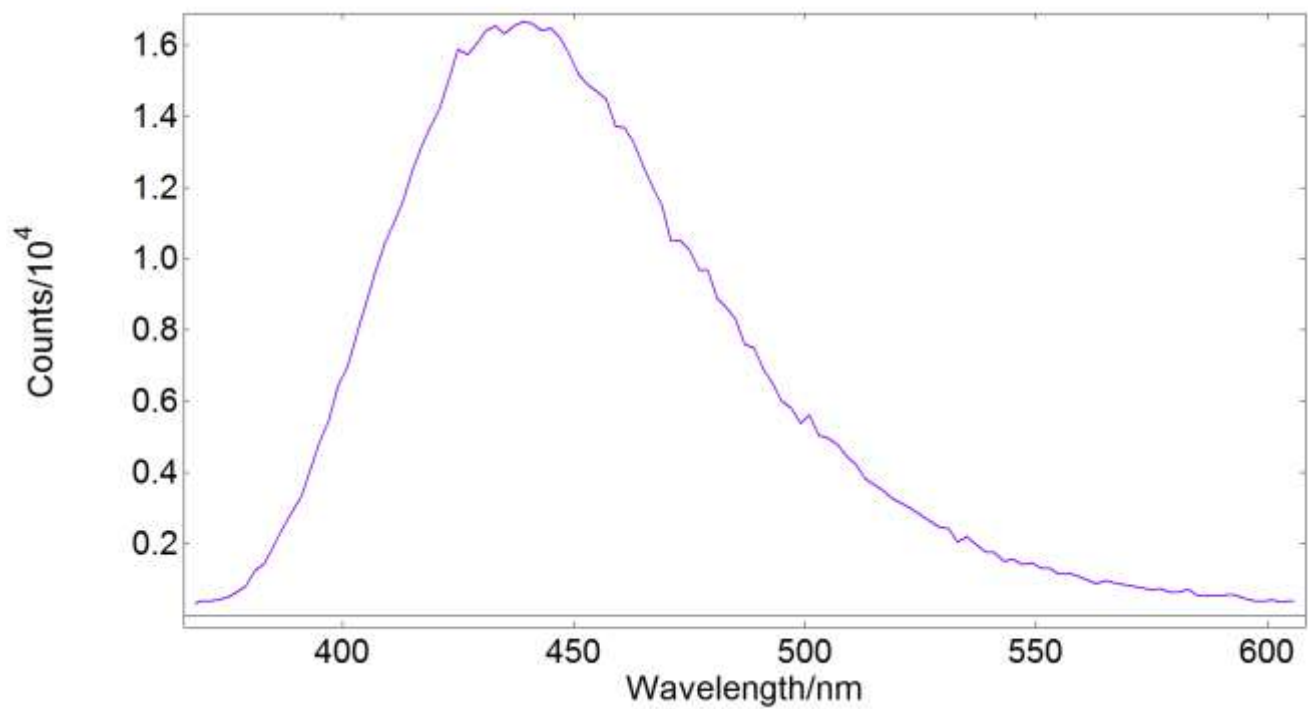
Emission of **3cd** in solid state



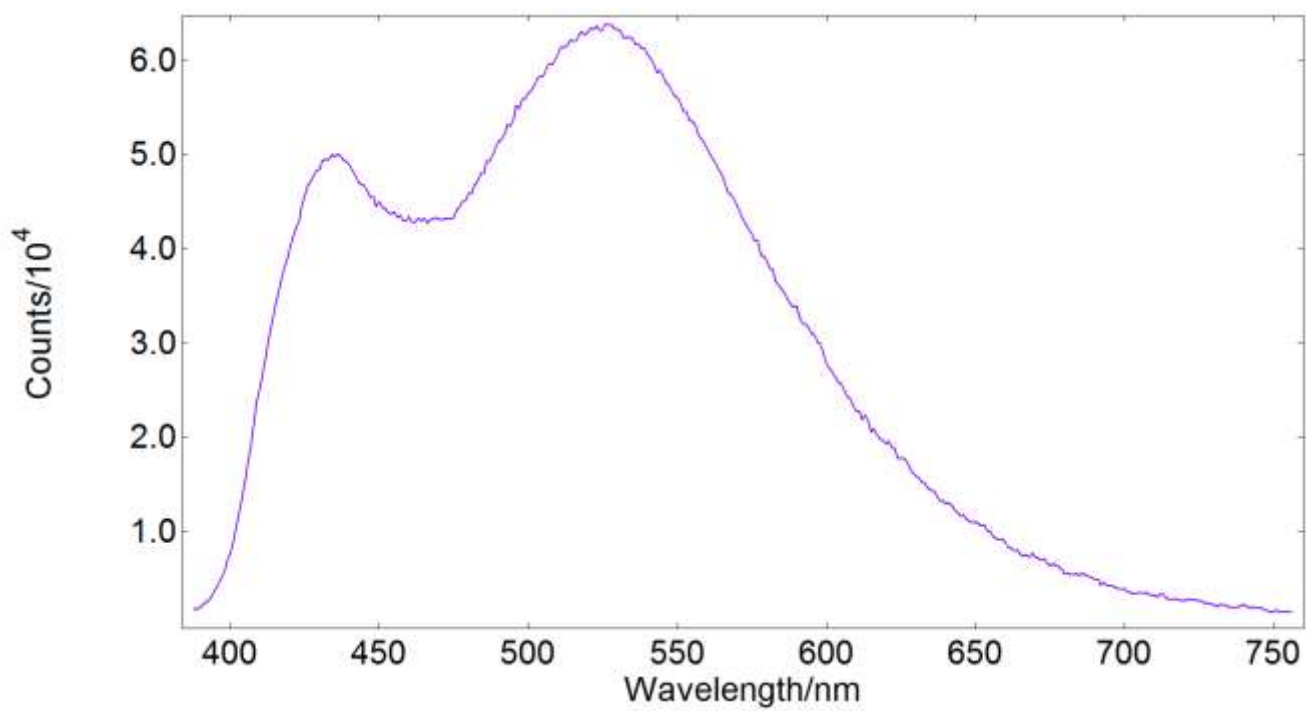
Absorption of **3dd** in MeCN solution (concentration is *ca* 10<sup>-6</sup> mol/L)



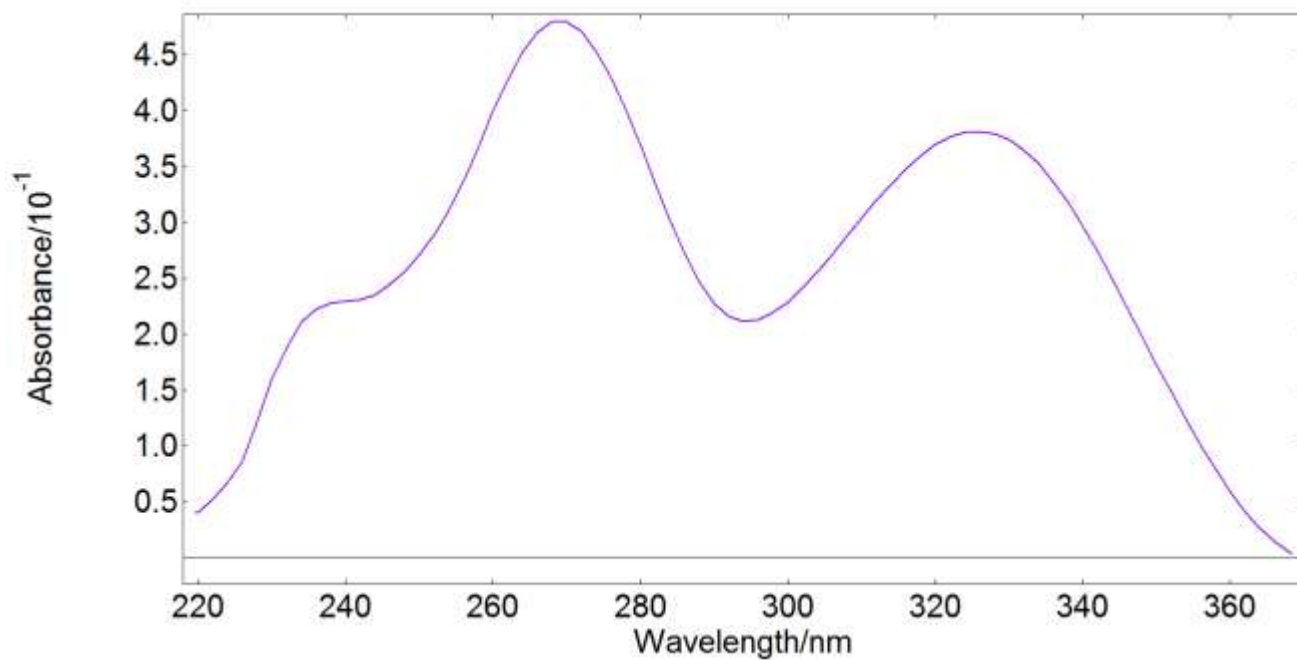
Emission of **3dd** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



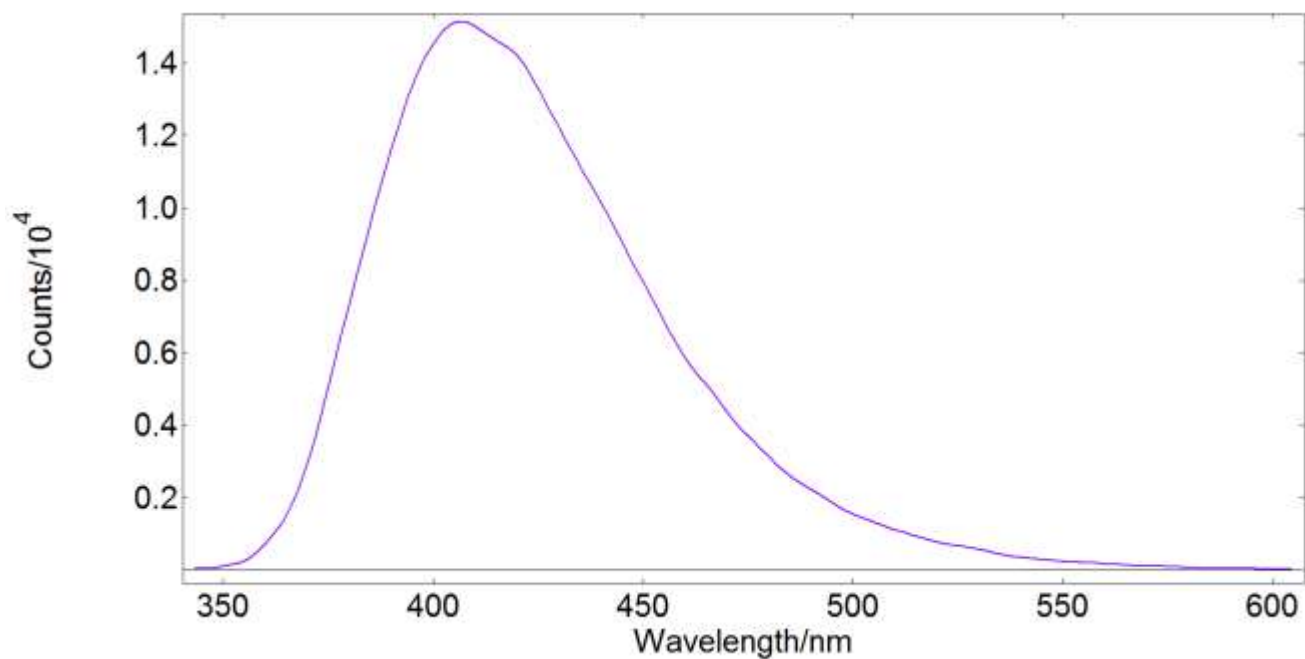
Emission of **3dd** in solid state



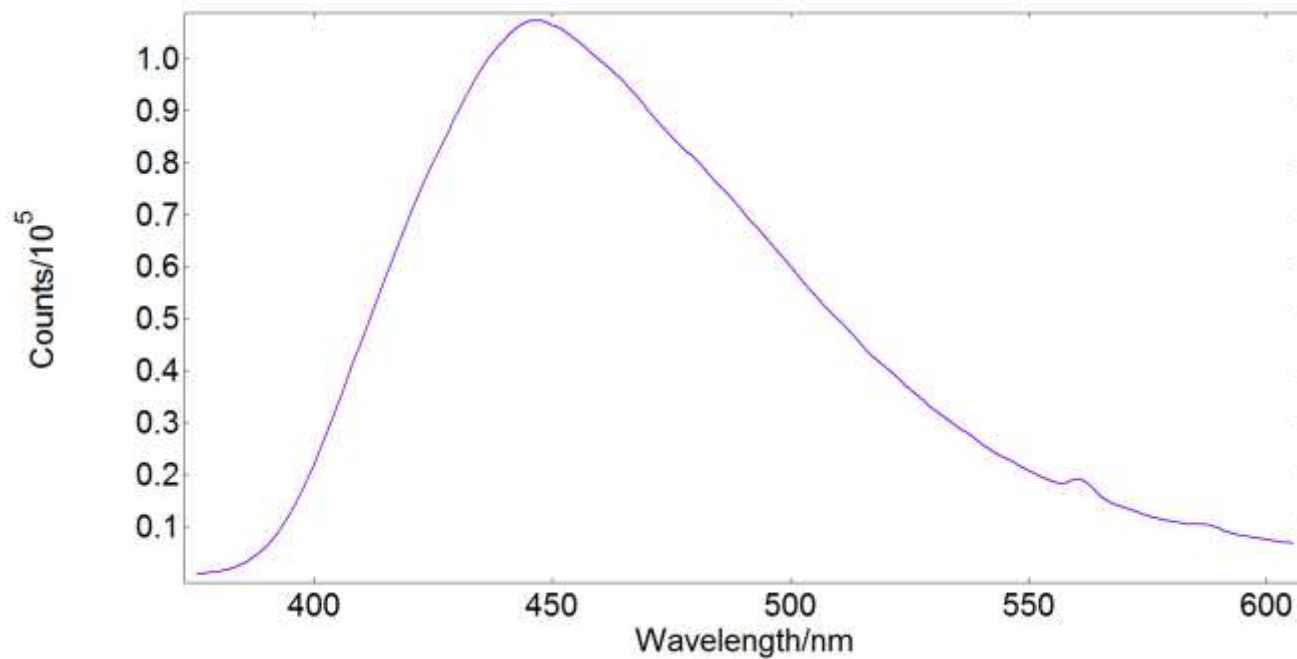
Absorption of **3ed** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



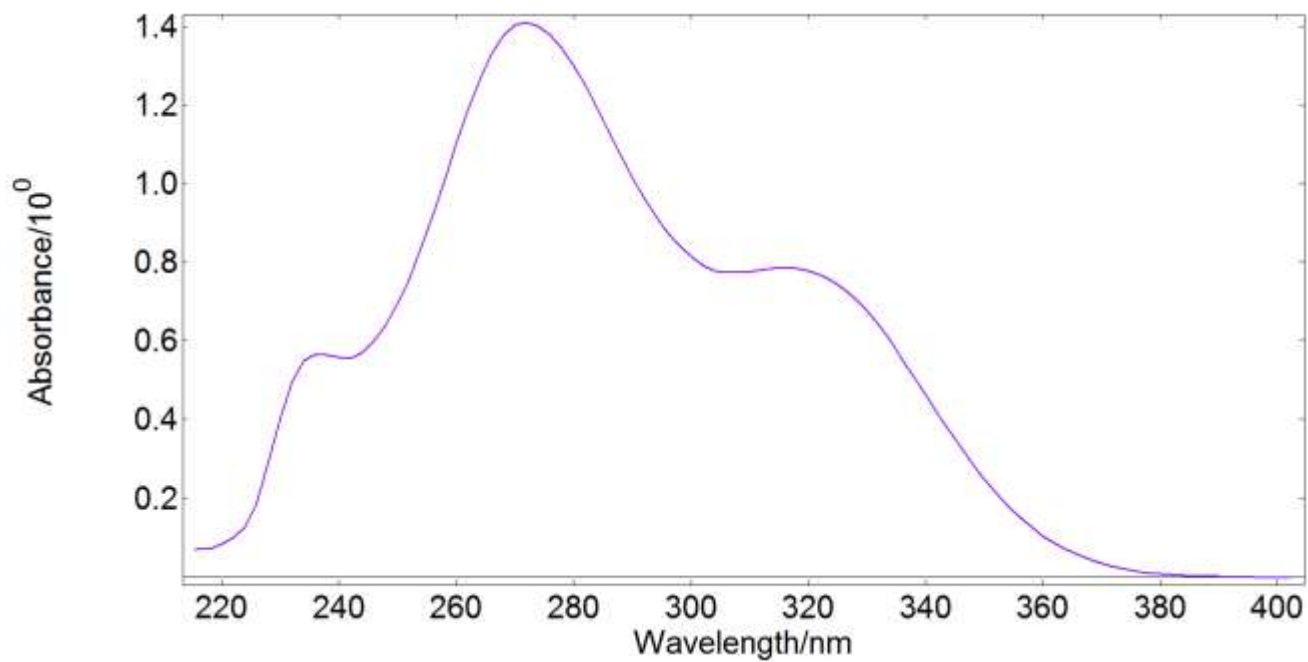
Emission of **3ed** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



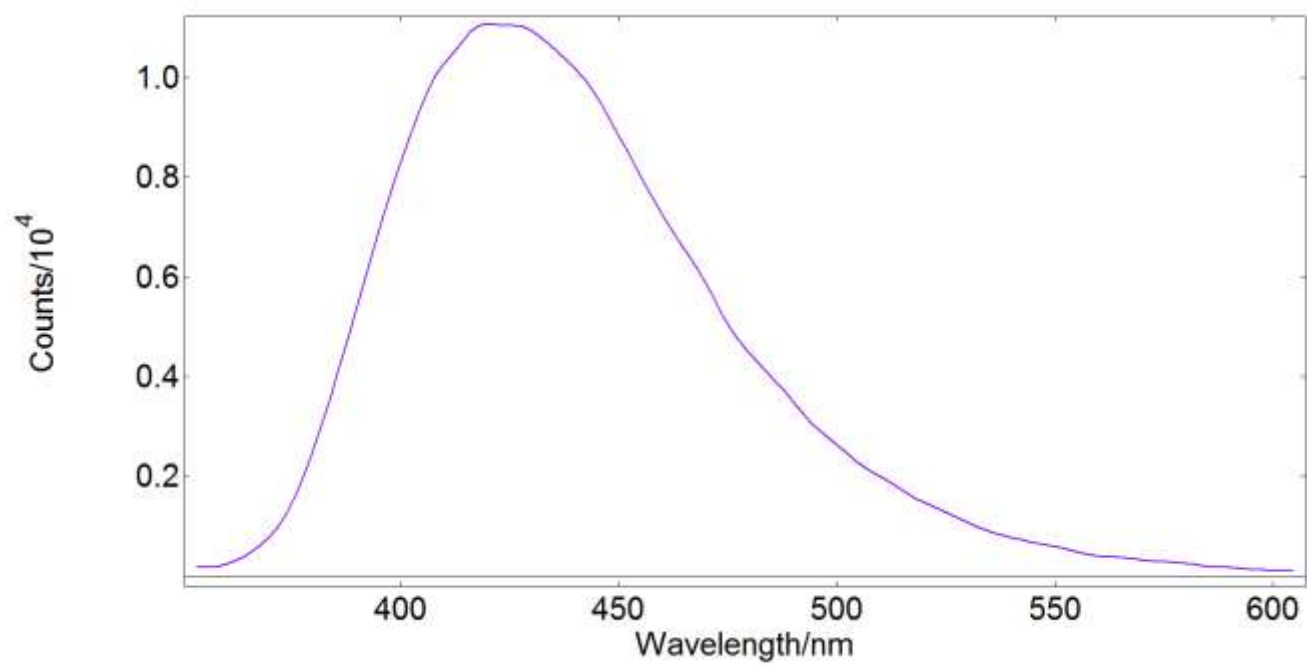
Emission of **3ed** in solid state



Absorption of **3be** in MeCN solution (concentration is *ca* 10<sup>-6</sup> mol/L)



Emission of **3be** in MeCN solution (concentration is *ca*  $10^{-6}$  mol/L)



## Molar attenuation coefficients

Substance	Abs., nm	$\epsilon$ , L/(mol*cm)
<b>3aa</b>	237	35100
	266	52700
	347	54500
<b>3ba</b>	235	33500
	278	55900
	356	64300
<b>3ca</b>	234	21200
	274	41600
	358	40800
<b>3da</b>	238	32700
	280	56800
	354	62600
<b>3ea</b>	238	26600
	272	36600
	352	36000
<b>3fa</b>	234	8700
	280	22400
	356	28600
<b>3ab</b>	235	24400
	266	44300
	350	54800
<b>3bb</b>	234	15000
	280	25700
	360	38300
<b>3cb</b>	235	24400
	274	46200
	360	48800

Substance	Abs., nm	$\epsilon$ , L/(mol*cm)
<b>3ac</b>	232	700
	268	6100
	355	25800
<b>3bc</b>	234	84200
	280	50300
	368	85700
<b>3cc</b>	236	41200
	275	61900
	365	73700
<b>3ad</b>	265	49000
	329	44800
	-	-
<b>3bd</b>	252	38900
	280	49100
	340	42400
<b>3cd</b>	236	34700
	270	68500
	340	56200
<b>3dd</b>	242	34000
	284	38400
	332	36000
<b>3ed</b>	240	11600
	268	44900
	326	34300
<b>3be</b>	236	23600
	272	44600
	318	31200