

## Supporting Information

### Synthesis of 6-Substituted 2-phenacylpyridines from 2-Phenylethynylpyridine *via* Isoxazolo[2,3-*a*]pyridinium Salt

Song T. Le,<sup>a</sup> Toshiki Fujimoto,<sup>b</sup> Haruyasu Asahara\*<sup>b,c</sup> and Nagatoshi Nishiwaki\*<sup>b,c</sup>

<sup>a</sup> Faculty of Applied Sciences, Ton Duc Thang University, 19 Nguyen Huu Tho Street, Tan Phong Ward, District 7, Ho Chi Minh City, 70000, Vietnam.

<sup>b</sup> School of Environmental Science and Technology, Kochi University of Technology, Tosayamada, Kami, Kochi, 782-8502, Japan

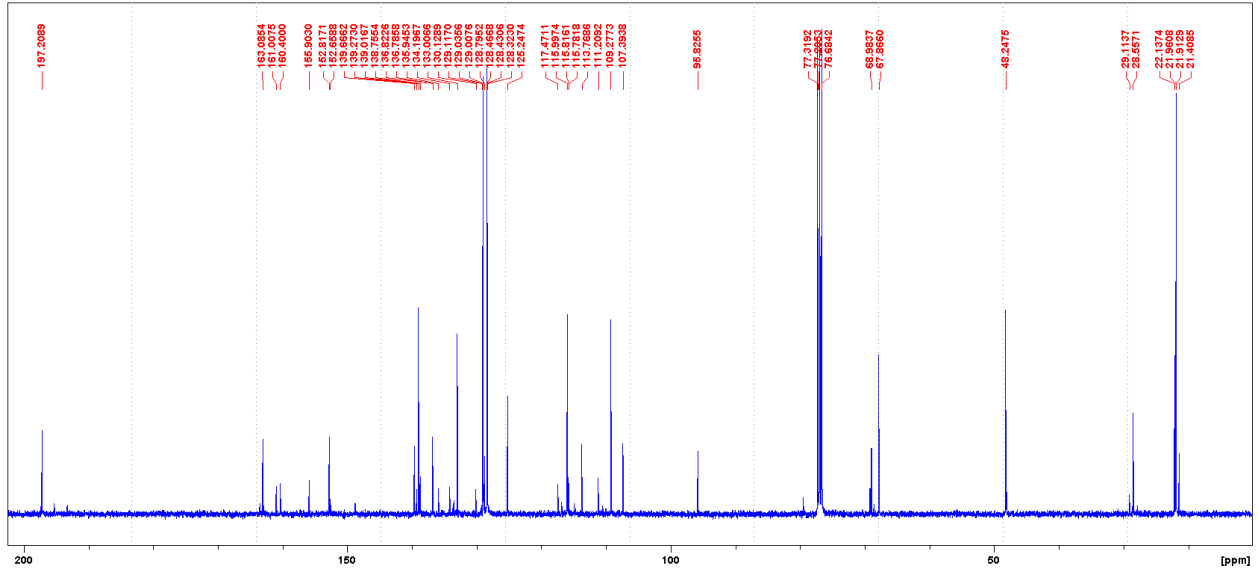
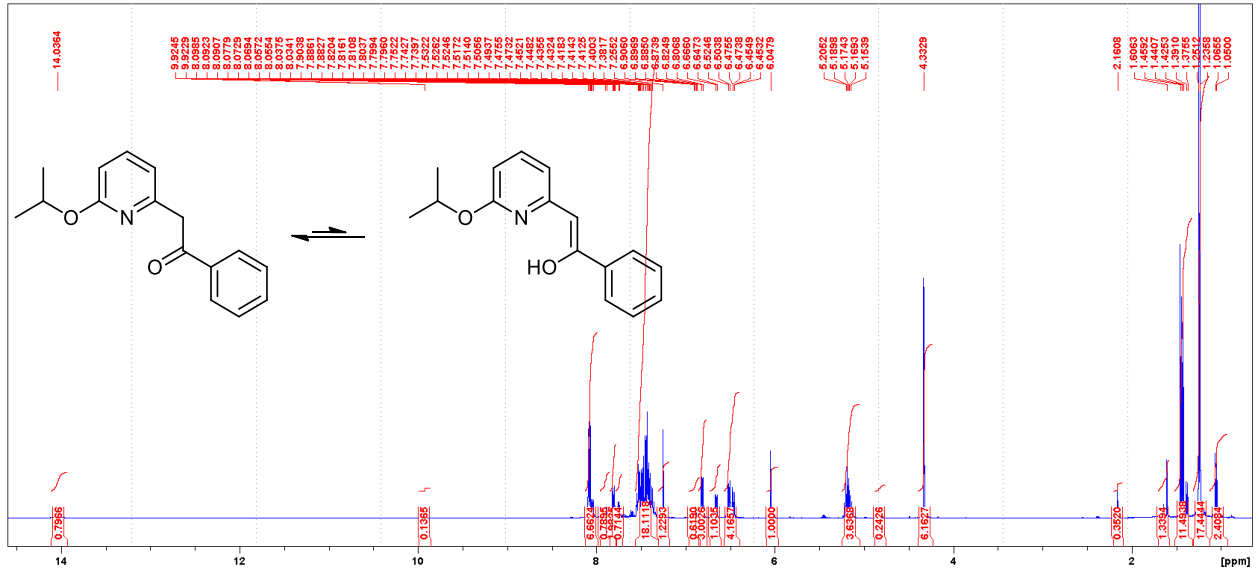
<sup>c</sup> Research Center for Material Science and Engineering, Kochi University of Technology, Tosayamada, Kami, Kochi, 782-8502, Japan

E-mail: nishiwaki.nagatoshi@kochi-tech.ac.jp

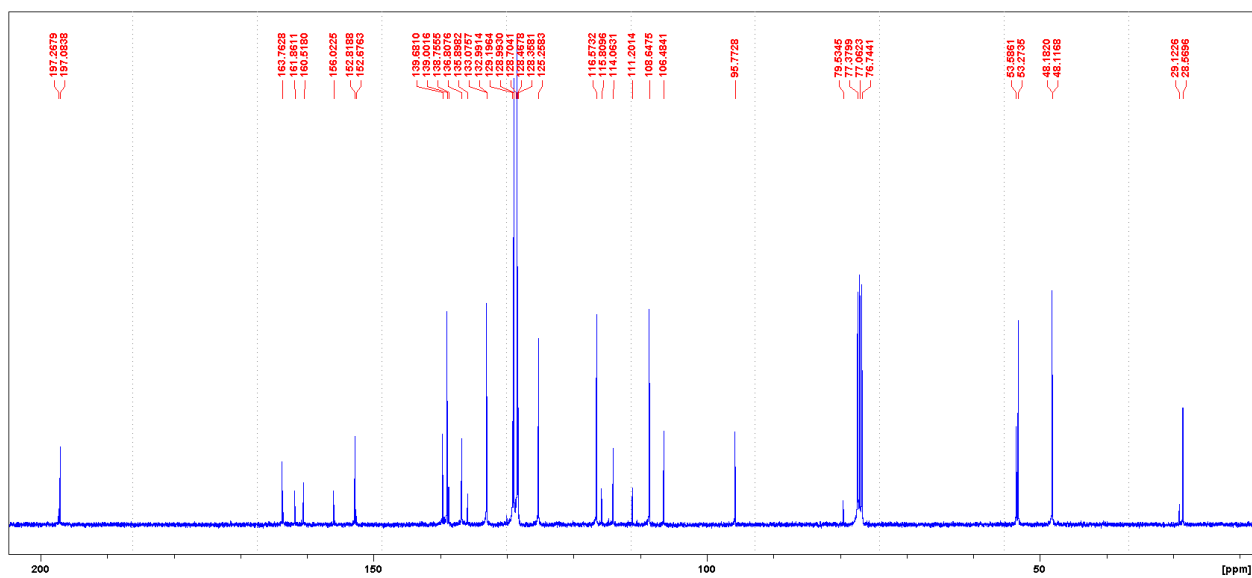
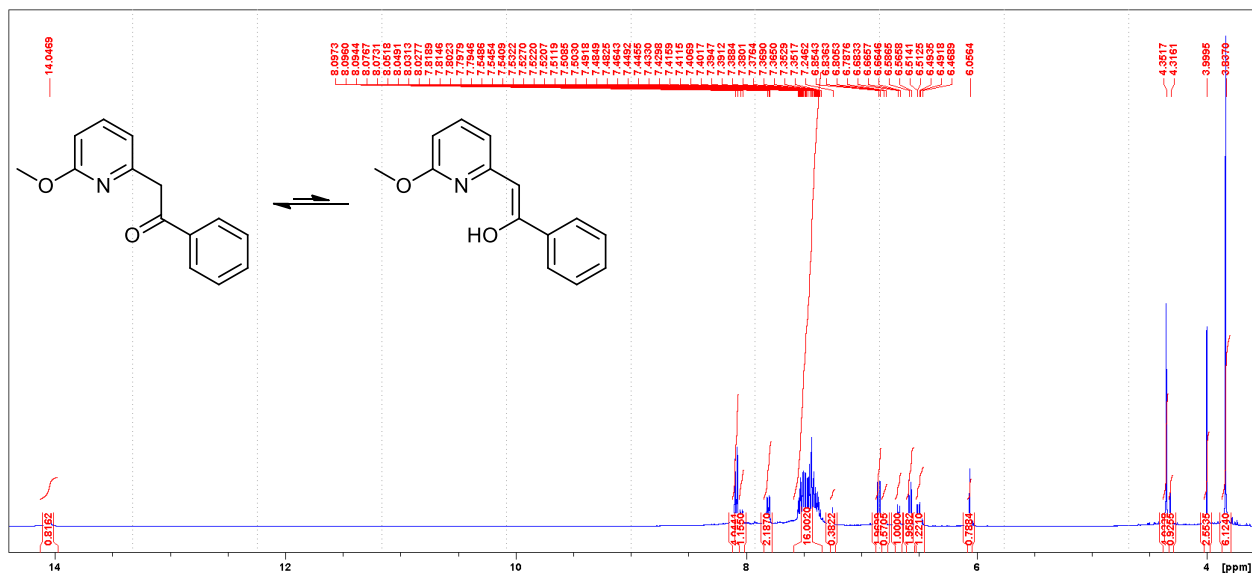
#### Table of Contents

2-Benzoylmethyl-6-(2-propoxy)pyridine (7a)	<sup>1</sup> H and <sup>13</sup> C NMR	ESI-2
2-Benzoylmethyl-6-methoxypyridine (7b)	<sup>1</sup> H and <sup>13</sup> C NMR	ESI-3
2-Benzoylmethyl-6-ethoxypyridine (7c)	<sup>1</sup> H and <sup>13</sup> C NMR	ESI-4
2-Benzoylmethyl-6- <i>tert</i> -butoxypyridine (7d)	<sup>1</sup> H and <sup>13</sup> C NMR	ESI-5
2-Benzoylmethyl-6-benzyloxypyridine (7e)	<sup>1</sup> H and <sup>13</sup> C NMR	ESI-6
2-Benzoylmethyl-6-(2-phenylethoxy)pyridine (7f)	<sup>1</sup> H and <sup>13</sup> C NMR	ESI-7
2-Benzoylmethyl-6-(2-hydroxyethoxy)pyridine (7g)	<sup>1</sup> H and <sup>13</sup> C NMR	ESI-8
2-Benzoylmethyl-6-(3-chloro-1-propoxy)pyridine (7h)	<sup>1</sup> H and <sup>13</sup> C NMR	ESI-9
2-Benzoylmethyl-6-(2-propen-1-oxy)pyridine (7i)	<sup>1</sup> H and <sup>13</sup> C NMR	ESI-10
2-Benzoylmethyl-6-(2-propynyloxy)pyridine (7j)	<sup>1</sup> H and <sup>13</sup> C NMR	ESI-11
2-Benzoylmethyl-6-hydroxypyridine (7k)	<sup>1</sup> H and <sup>13</sup> C NMR	ESI-12
2-Methoxy-6-(2-oxo-1-hexyl)pyridine (7l)	<sup>1</sup> H and <sup>13</sup> C NMR	ESI-14
6-Benzoylmethyl-2-ethanoylaminopyridine (9a)	<sup>1</sup> H and <sup>13</sup> C NMR	ESI-15
2-Benzoylmethyl-6-propanolaminopyridine (9b)	<sup>1</sup> H and <sup>13</sup> C NMR	ESI-16
2-Benzoylmethyl-6-(2-methylpropanoyl)aminopyridine (9c)	<sup>1</sup> H and <sup>13</sup> C NMR	ESI-17
2-Benzoylmethyl-6-propenoylaminopyridine (9d)	<sup>1</sup> H and <sup>13</sup> C NMR	ESI-18
2-Benzoylmethyl-6-phenylethanoylaminopyridine (9e)	<sup>1</sup> H and <sup>13</sup> C NMR	ESI-19
2-Benzoylmethyl-6-(4-chlorobenzoylamino)pyridine (9f)	<sup>1</sup> H and <sup>13</sup> C NMR	ESI-20
6-Isopropoxy-2-(1,2-dioxo-2-phenylethyl)pyridine (11a)	<sup>1</sup> H and <sup>13</sup> C NMR	ESI-21
6-Methoxy-2-(1,2-dioxo-2-phenylethyl)pyridine (11b)	<sup>1</sup> H and <sup>13</sup> C NMR	ESI-22
6-Ethanoylamino-2-(1,2-dioxo-2-phenylethyl)pyridine (14)	<sup>1</sup> H and <sup>13</sup> C NMR	ESI-23

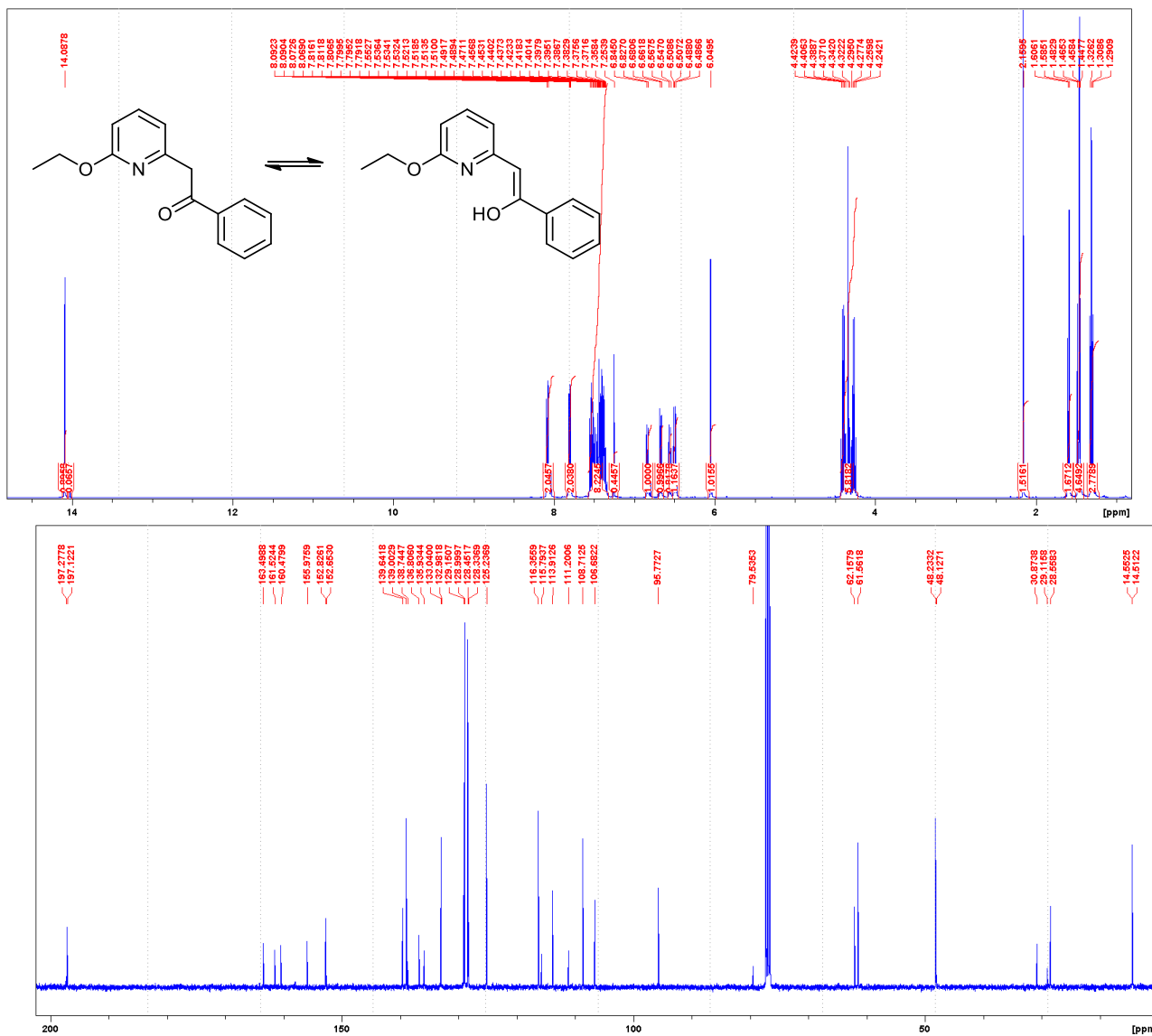
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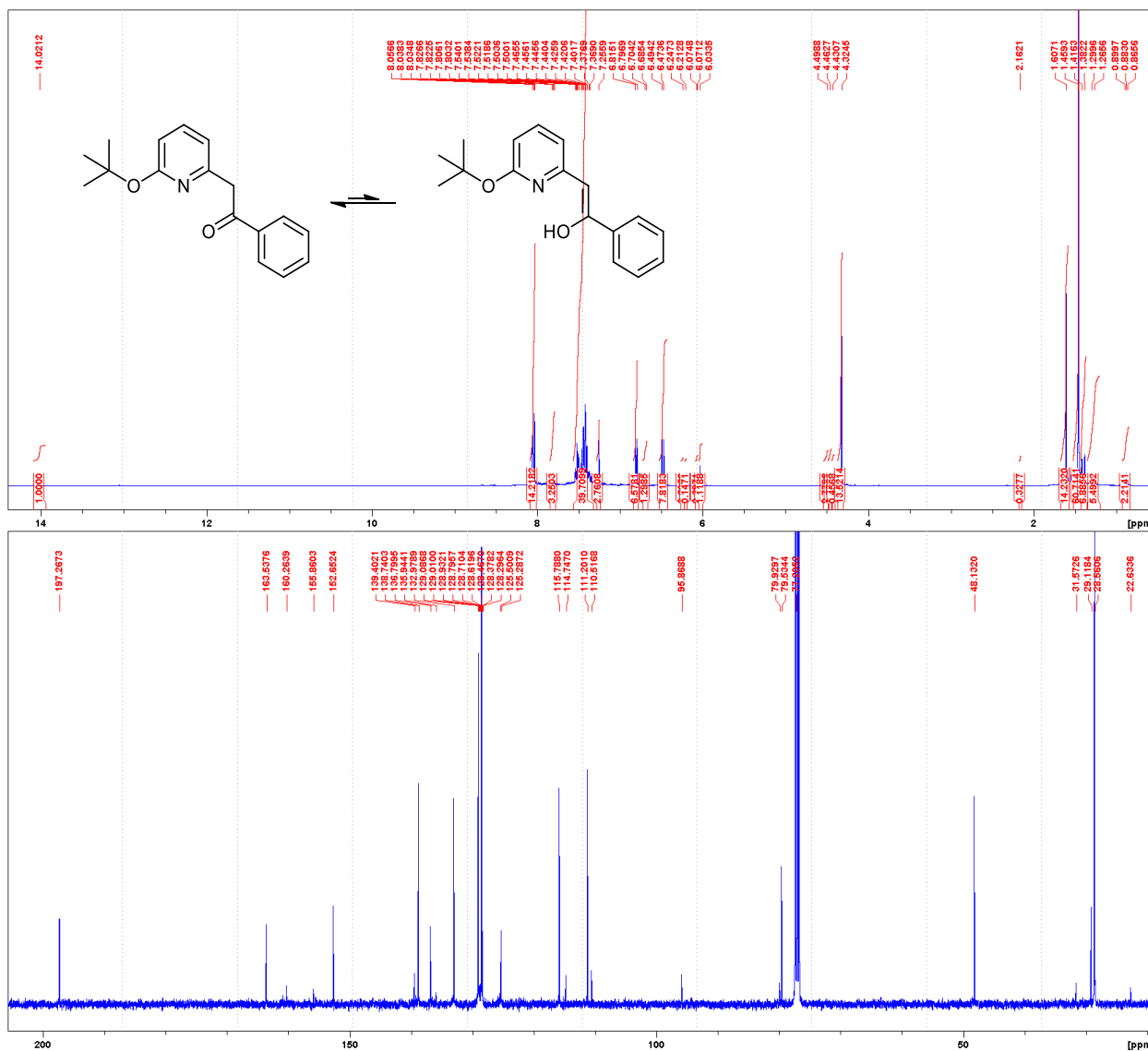
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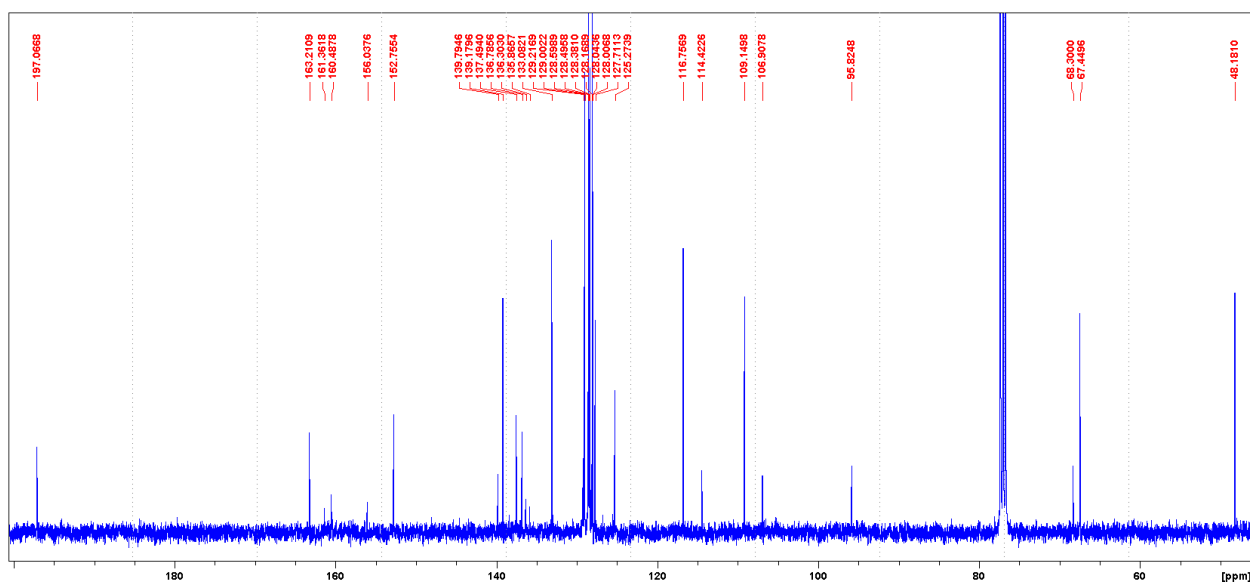
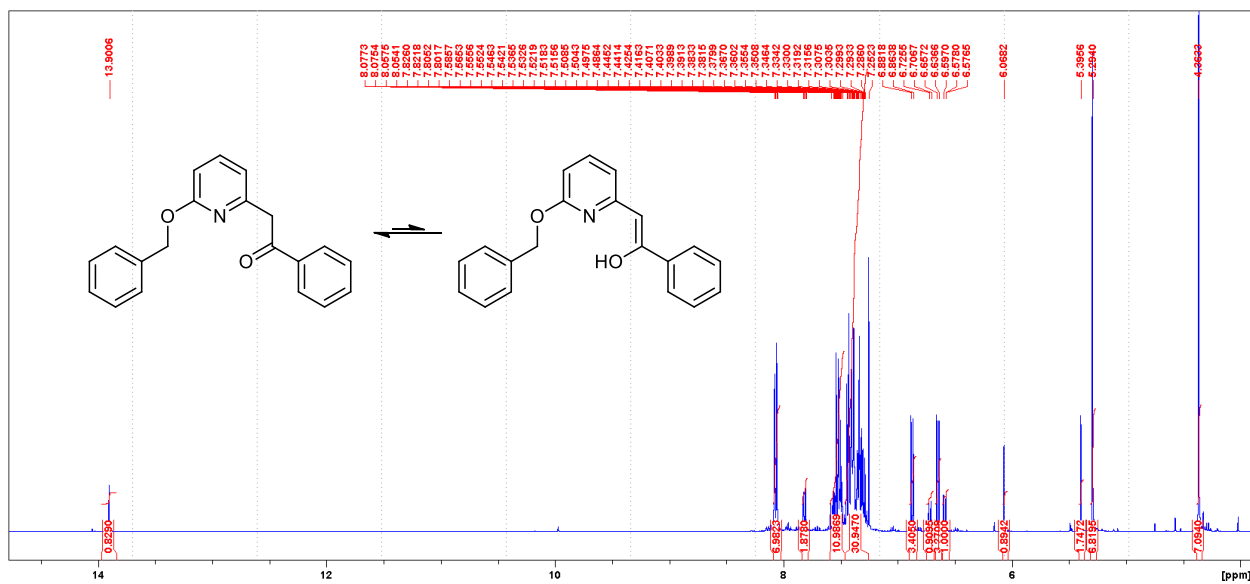
2-Benzoylmethyl-6-ethoxypyridine (7c) (CDCl<sub>3</sub>)



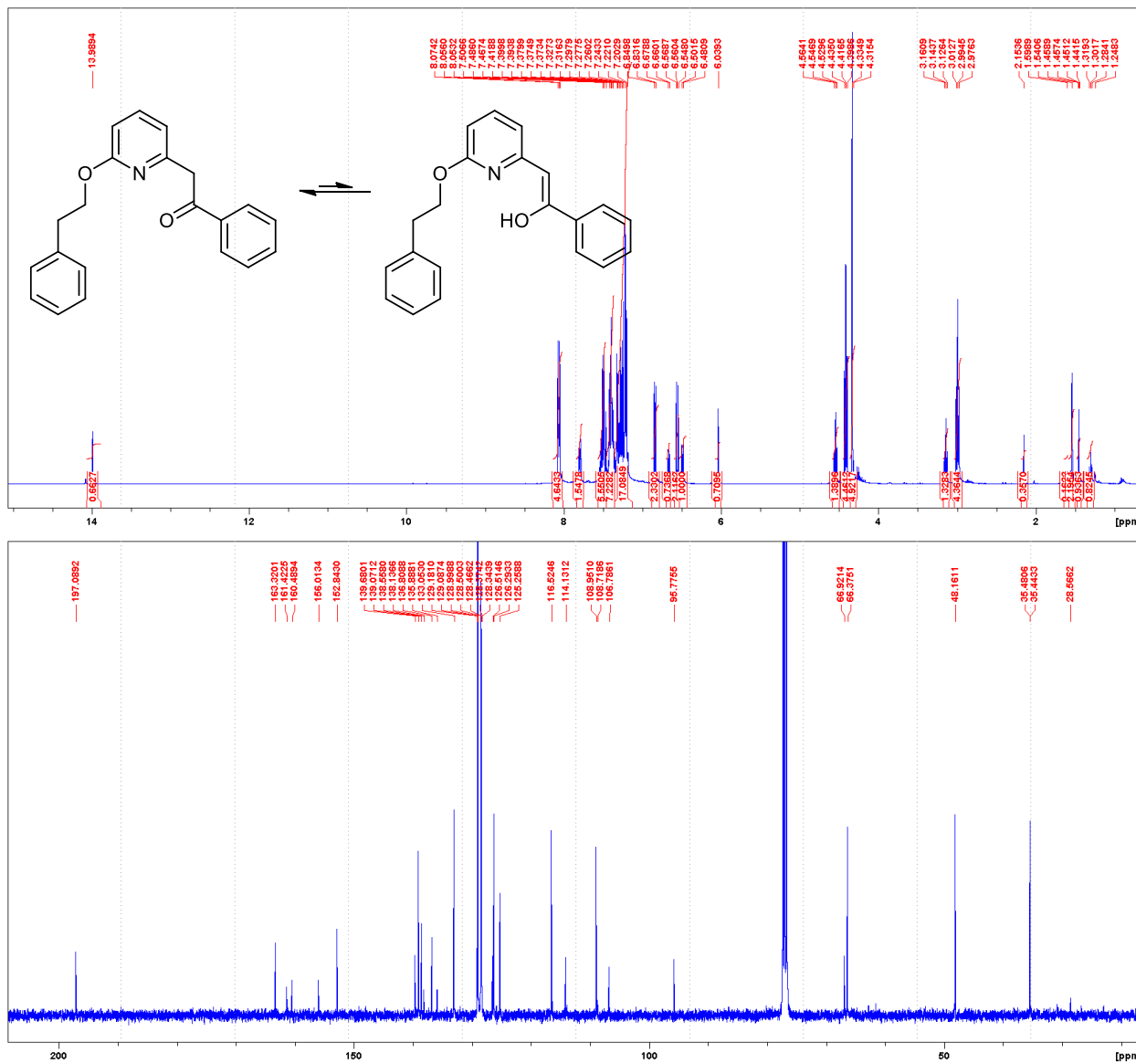
2-Benzoylmethyl-(6-*tert*-butoxy)pyridine (7d) (CDCl<sub>3</sub>)



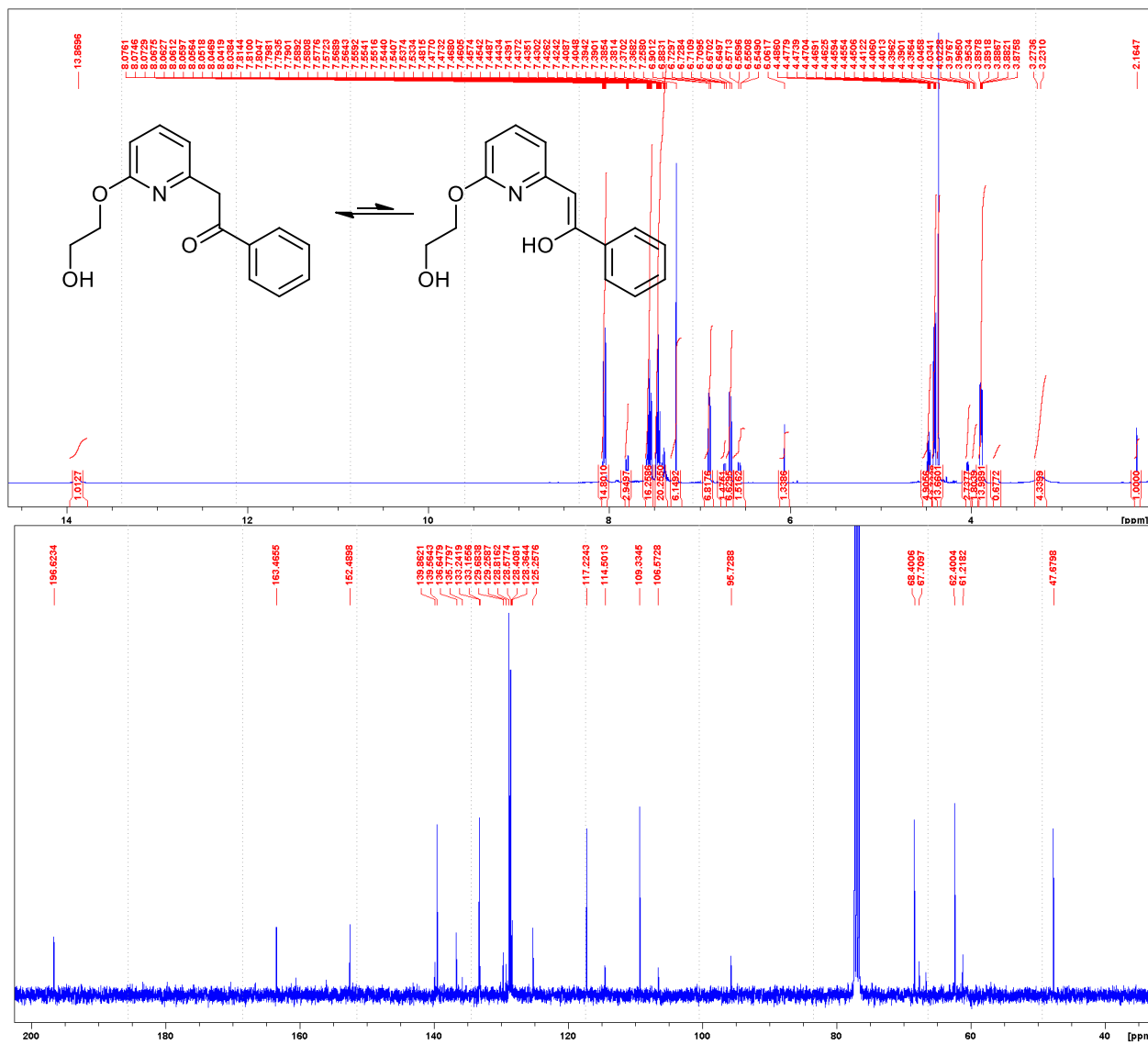
2-Benzoylmethyl-6-benzoyloxy pyridine (7e) (CDCl<sub>3</sub>)



2-Benzoylmethyl-6-(2-phenylethoxy)pyridine (7f) (CDCl<sub>3</sub>)



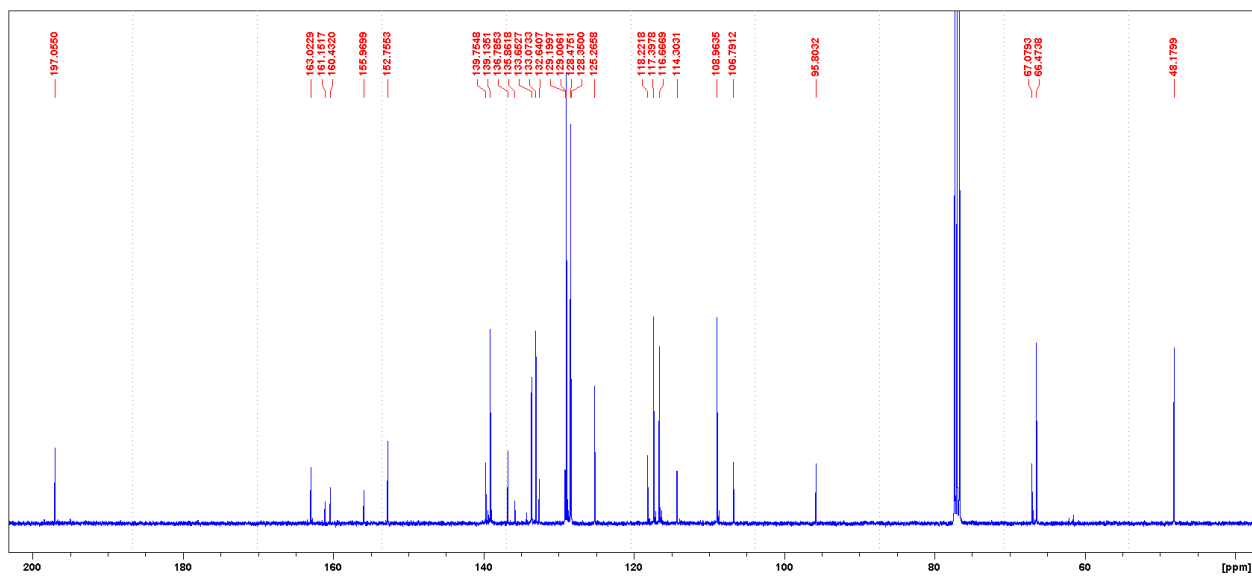
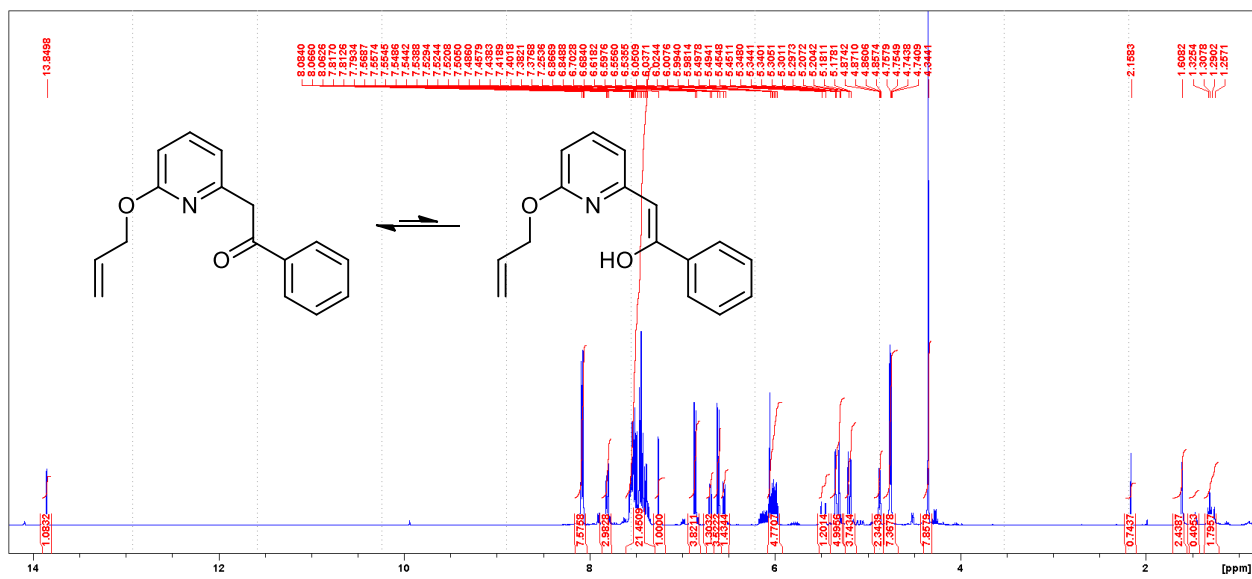
2-Benzoylmethyl-6-(2-hydroxyethoxy)pyridine (7g) (CDCl<sub>3</sub>)



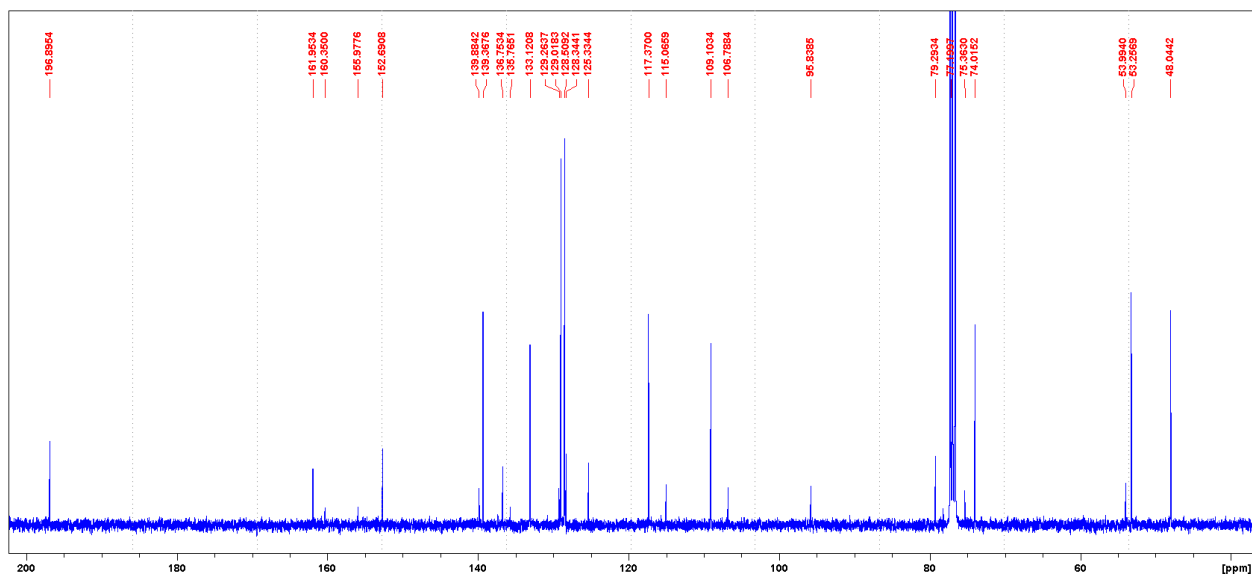
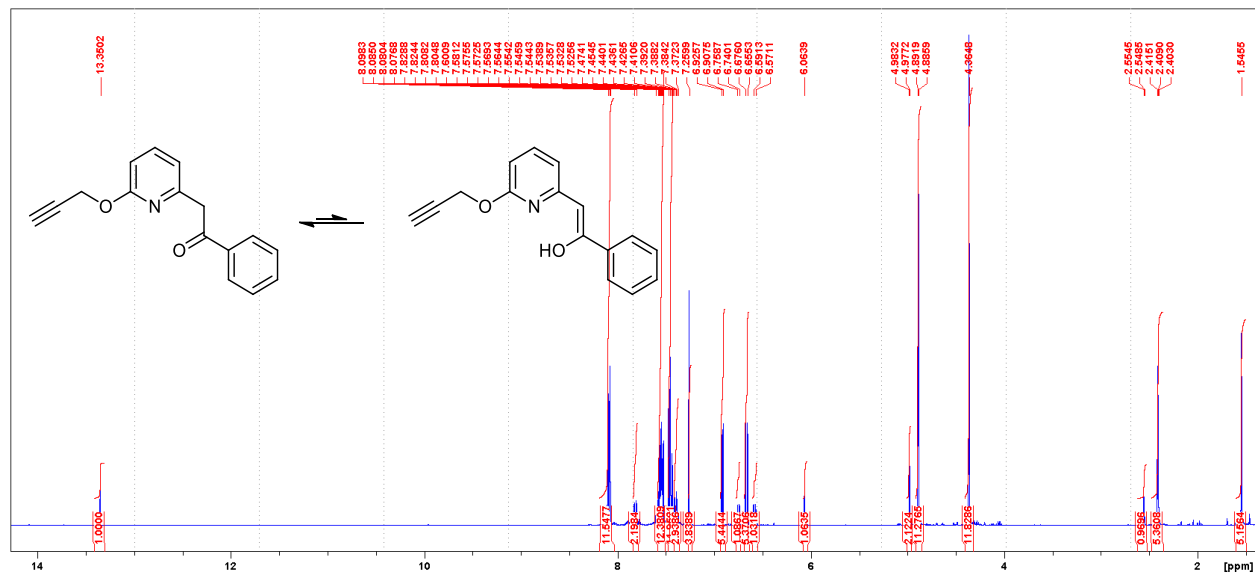




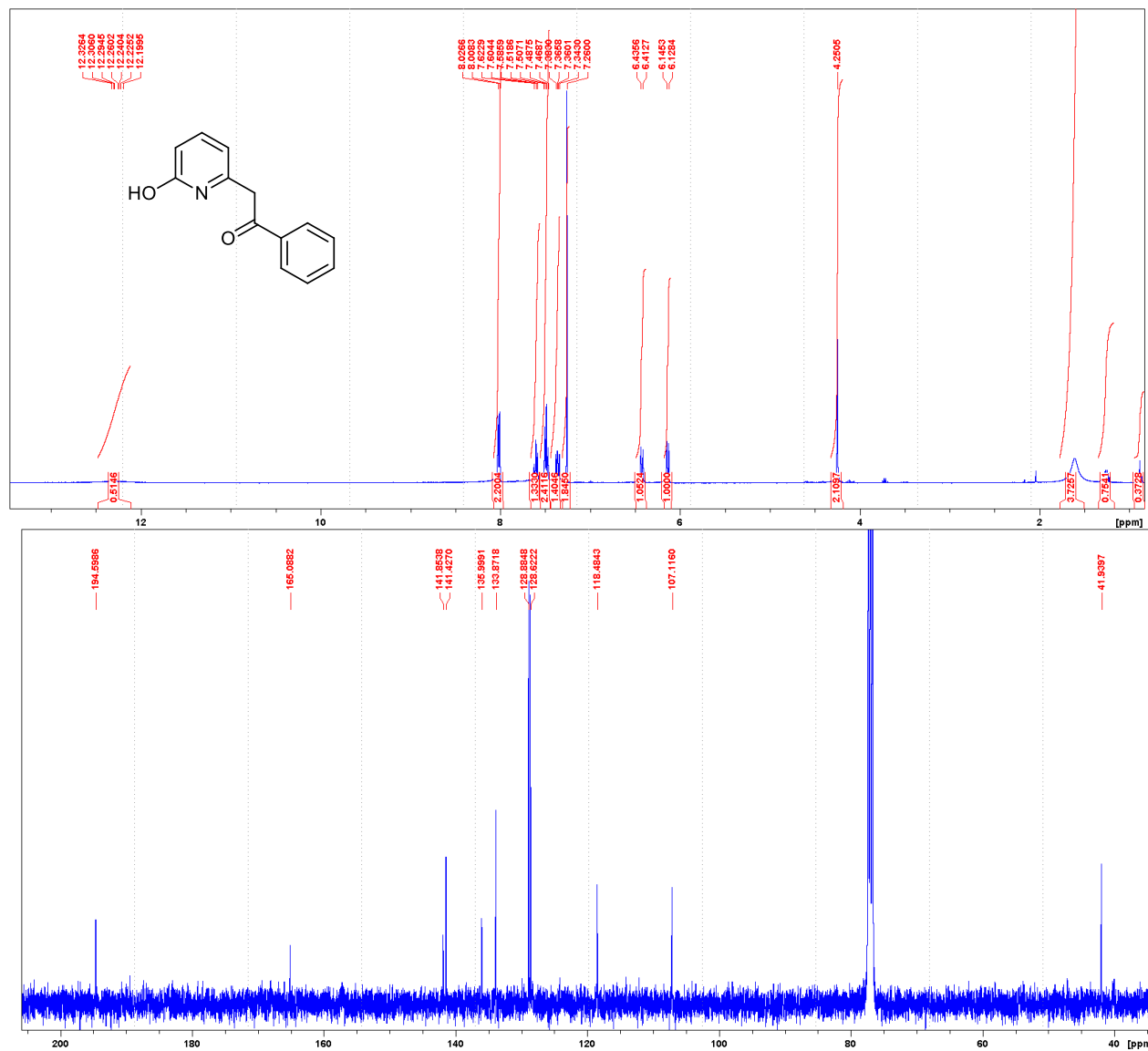
2-Benzoylmethyl-6-(2-propen-1-oxypyridine (7i) (CDCl<sub>3</sub>)



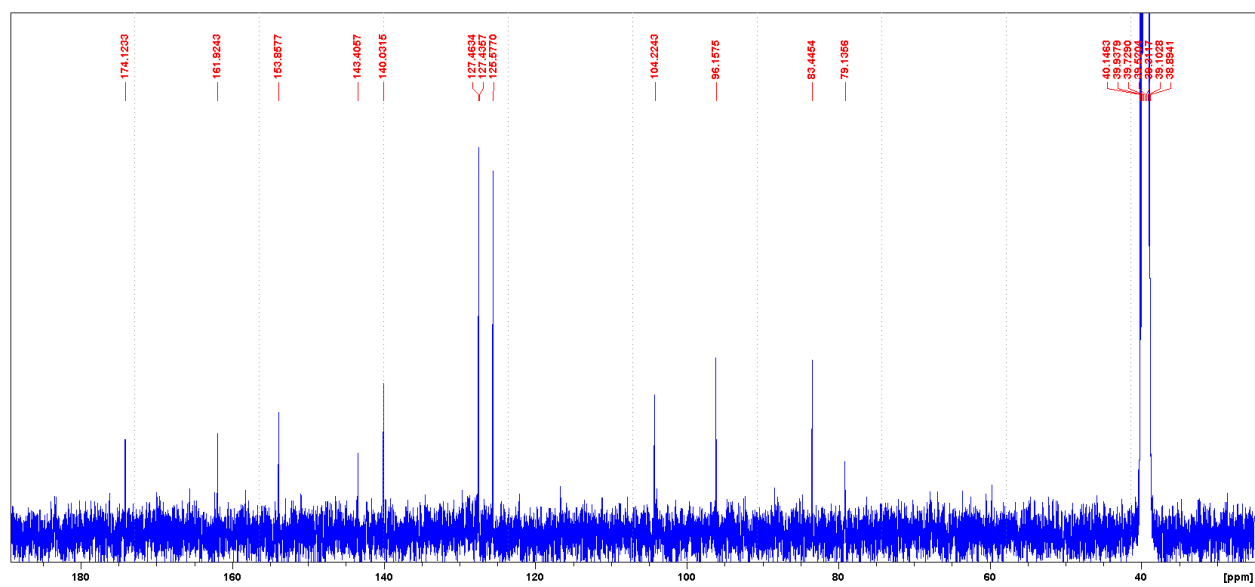
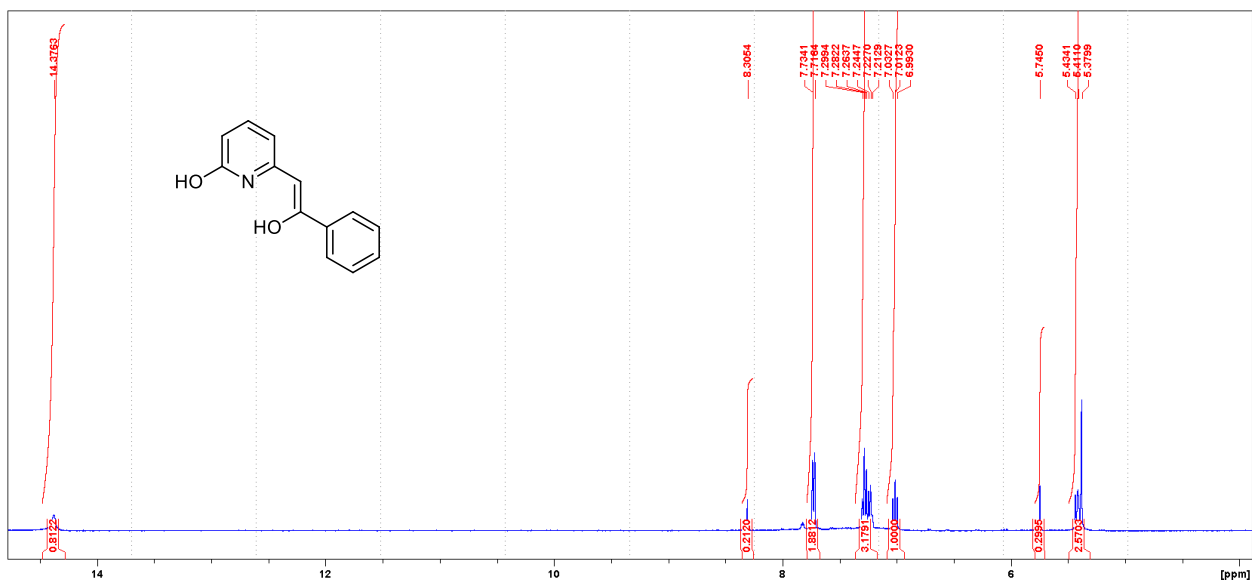
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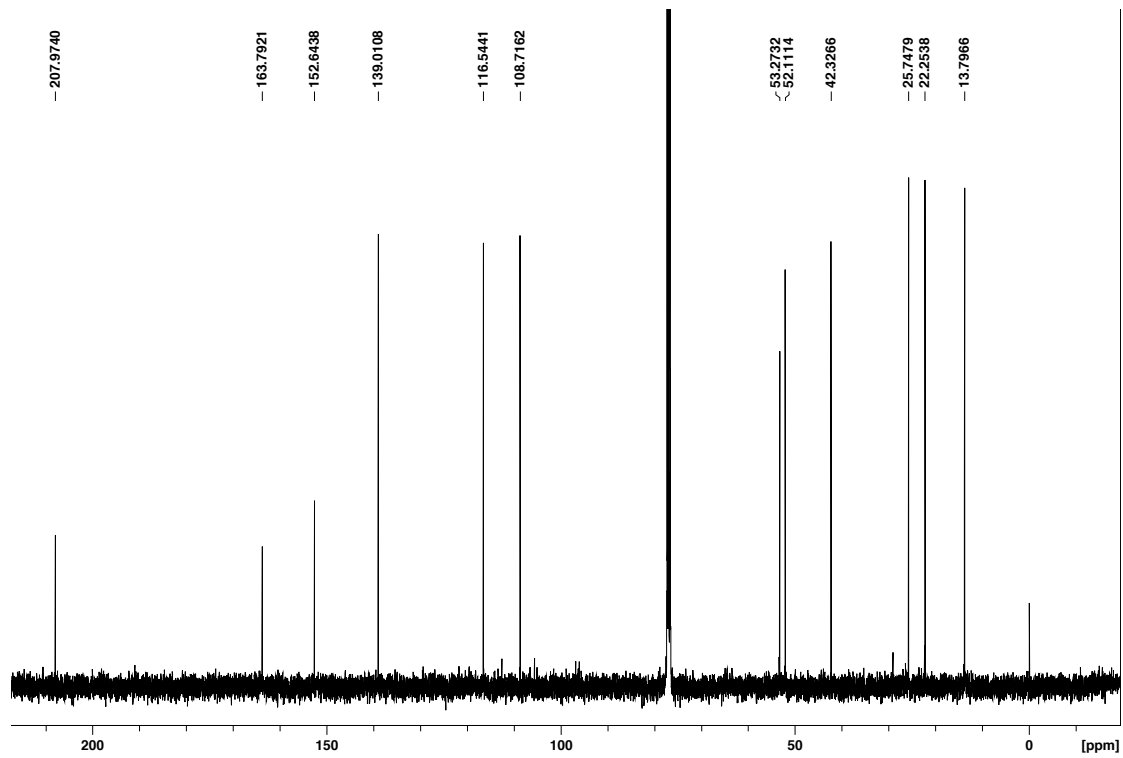
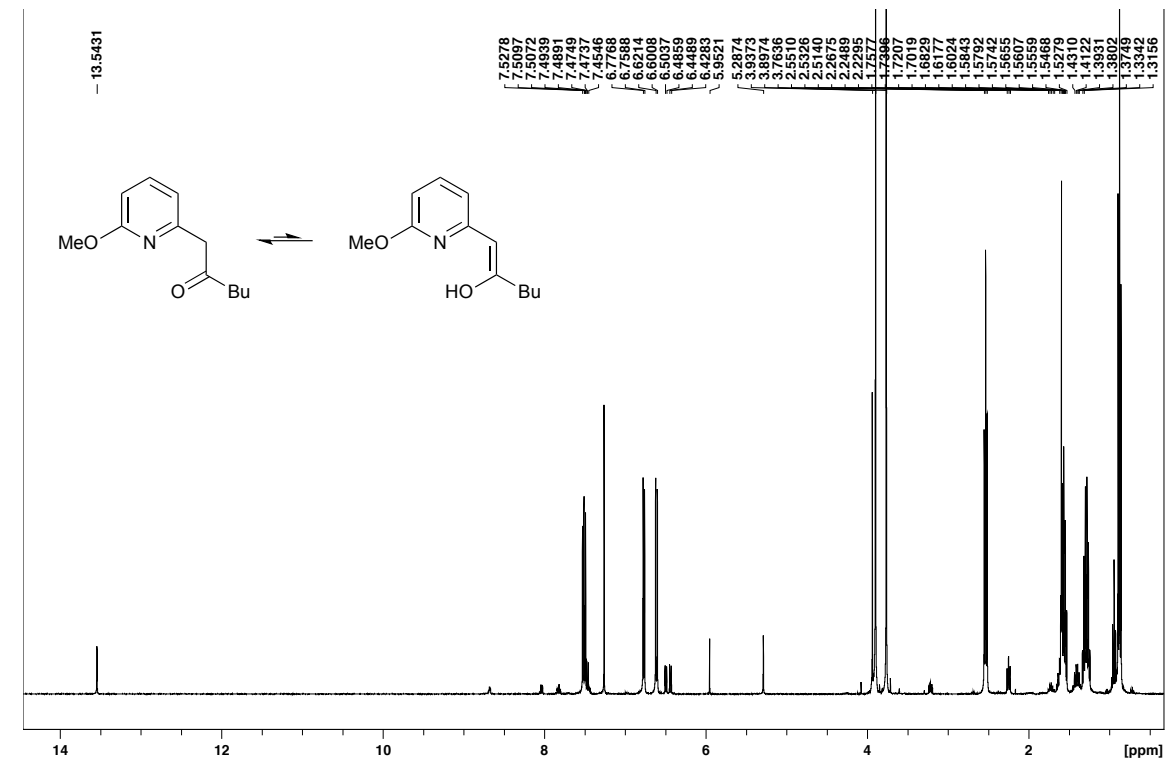
2-Benzoylmethyl-6-hydroxypyridine (7k) (CDCl<sub>3</sub>)



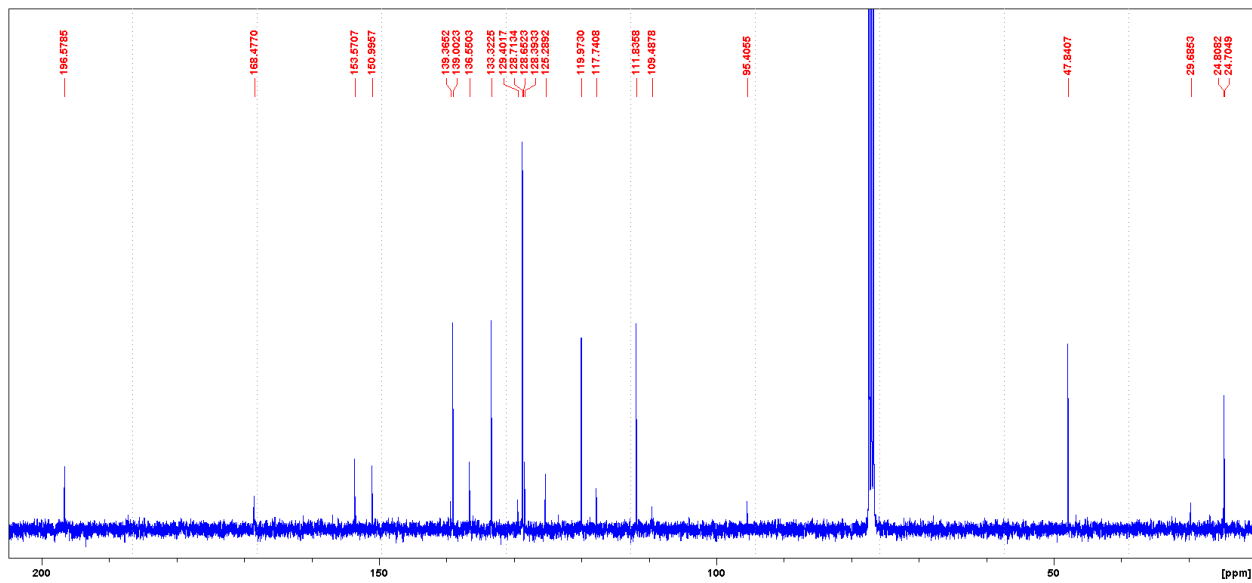
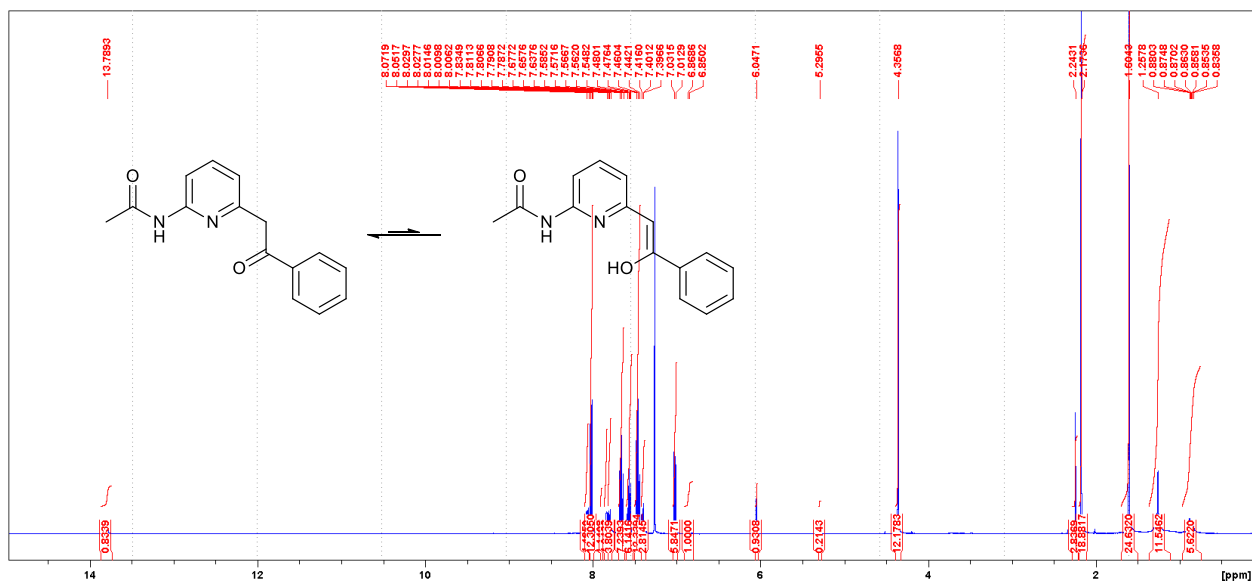
2-Benzoylmethyl-6-hydroxypyridine (7k) (CDCl<sub>3</sub>)



2-Methoxy-6-(2-oxo-1-hexyl)pyridine (7I) (CDCl<sub>3</sub>)



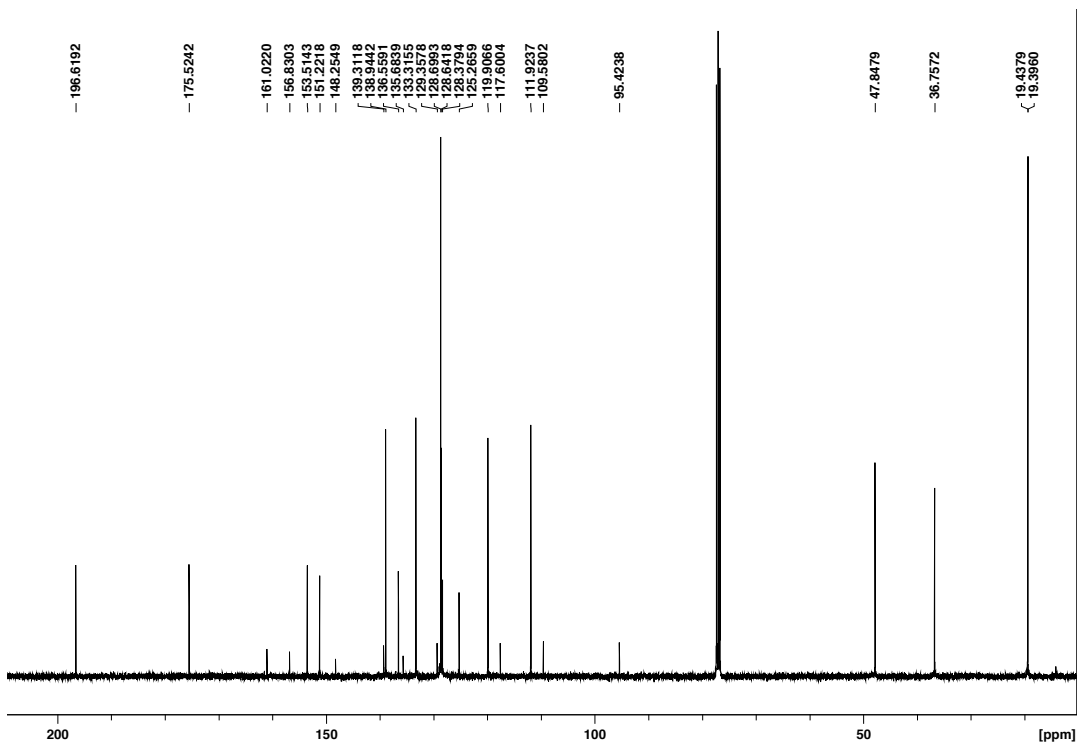
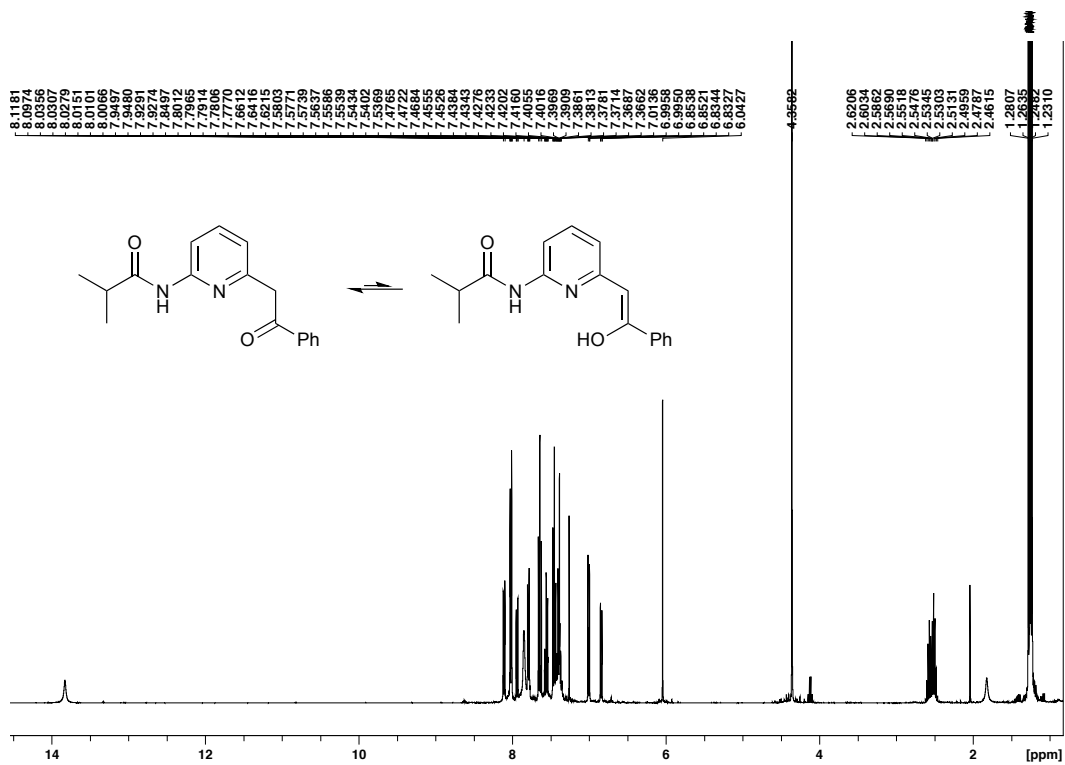
6-Benzoylmethyl-2-ethanoylaminopyridine (9a) (CDCl<sub>3</sub>)



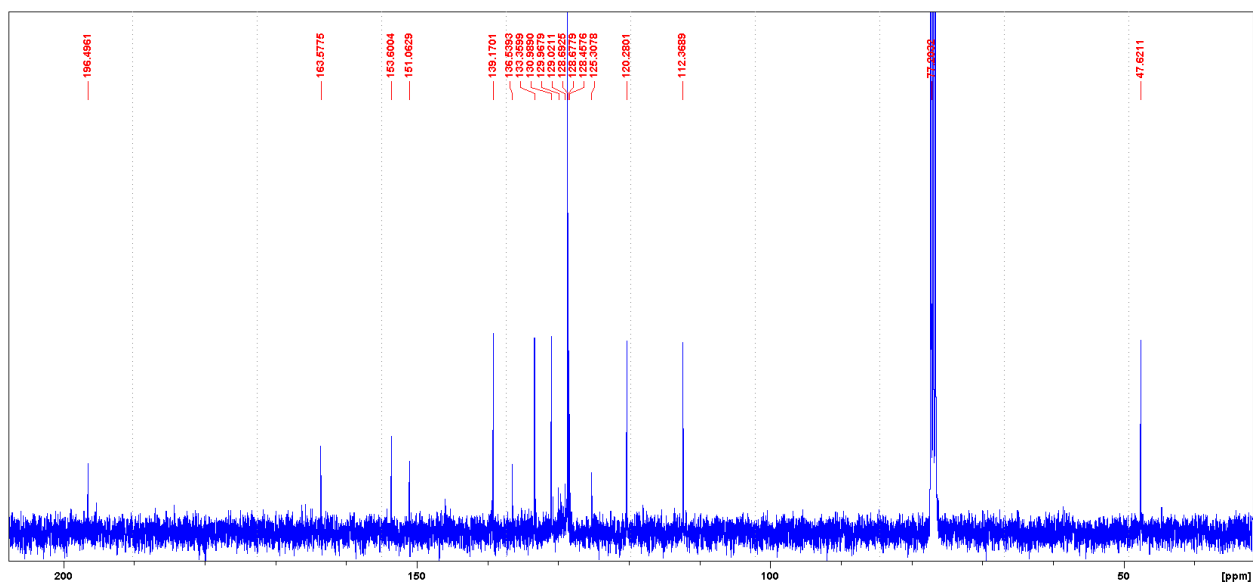
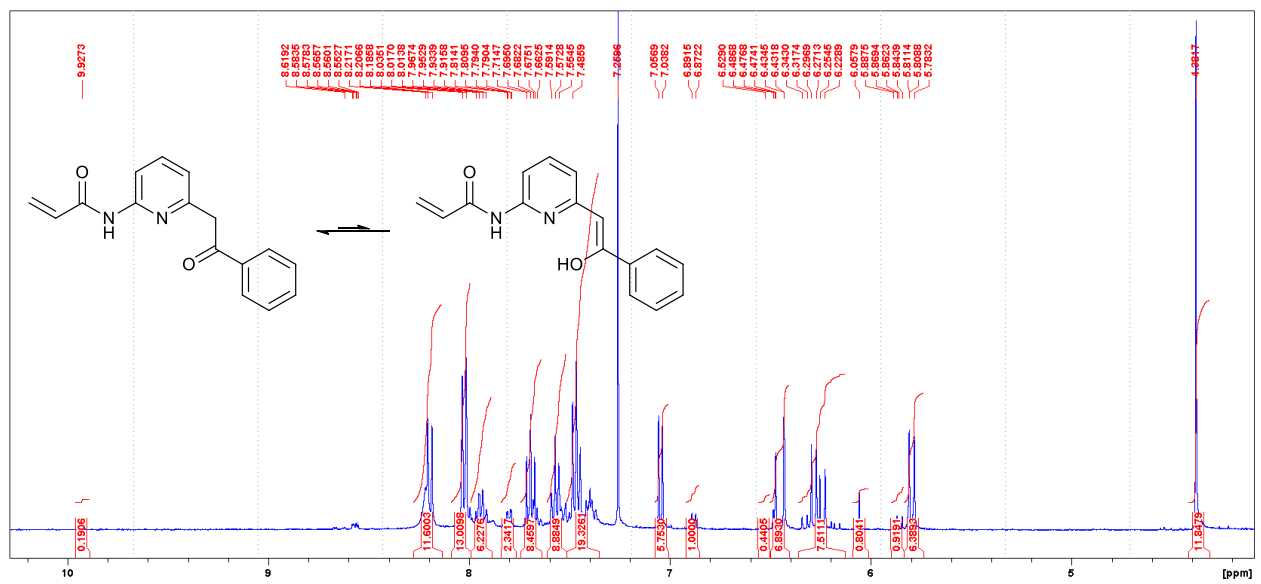




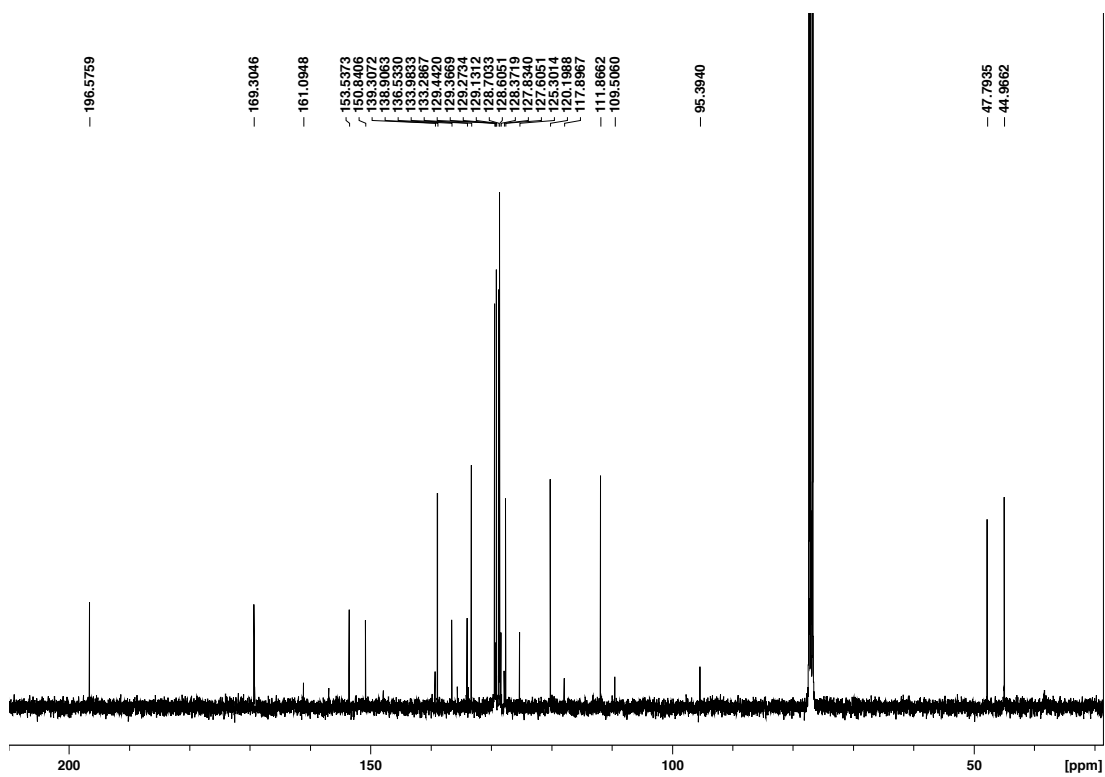
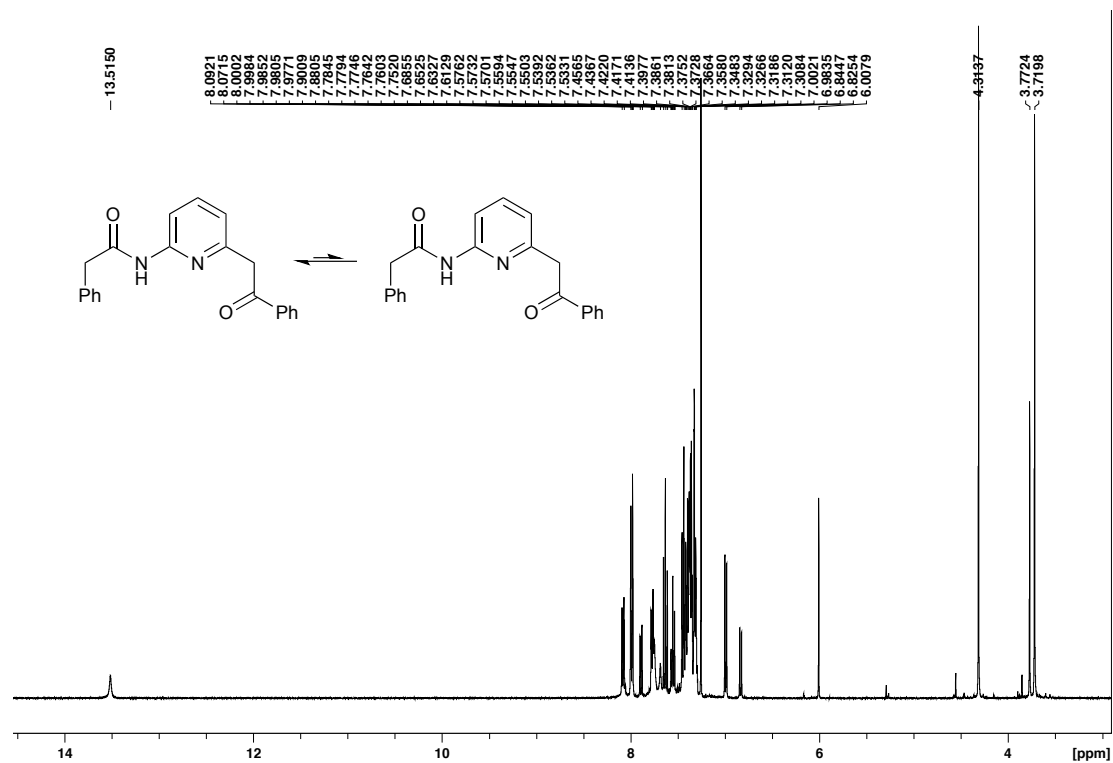
2-Benzoylmethyl-6-(2-methylpropanoyl)aminopyridine (9c) (CDCl<sub>3</sub>)



2-Benzoylmethyl-6-propenylaminopyridine (9d) (CDCl<sub>3</sub>)

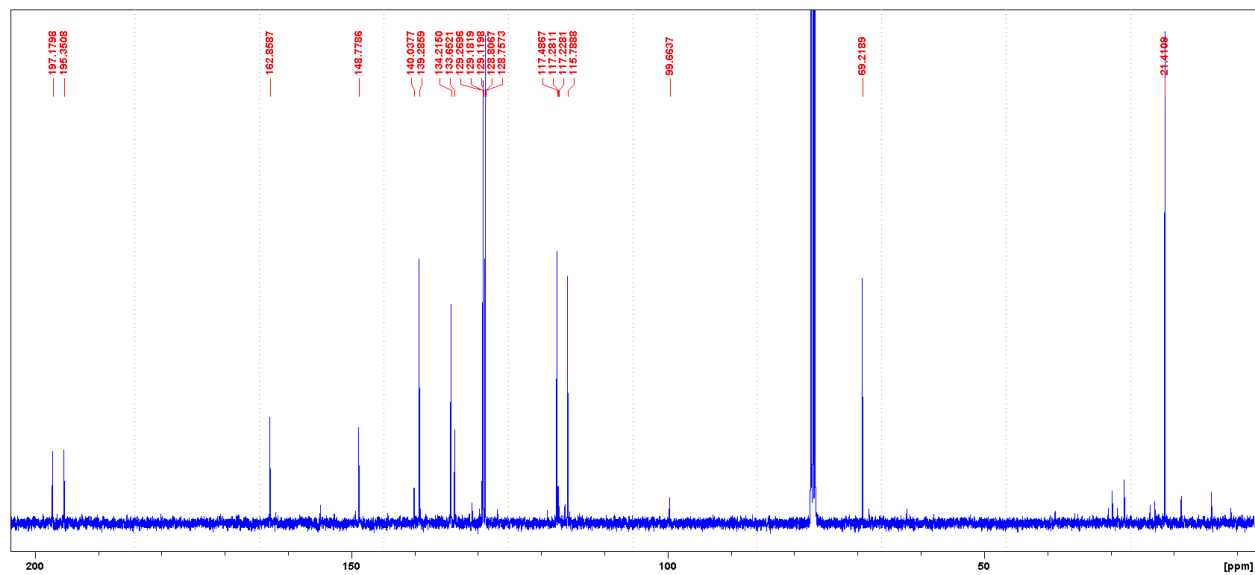
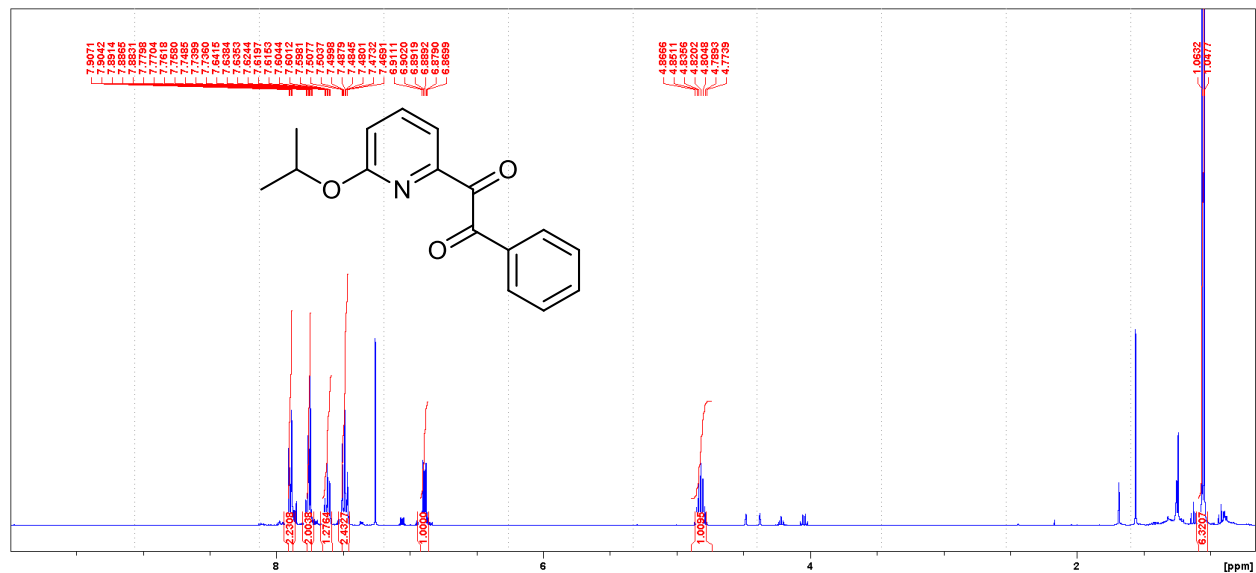


2-Benzoylmethyl-6-phenylethanopyridine (9e) (CDCl<sub>3</sub>)

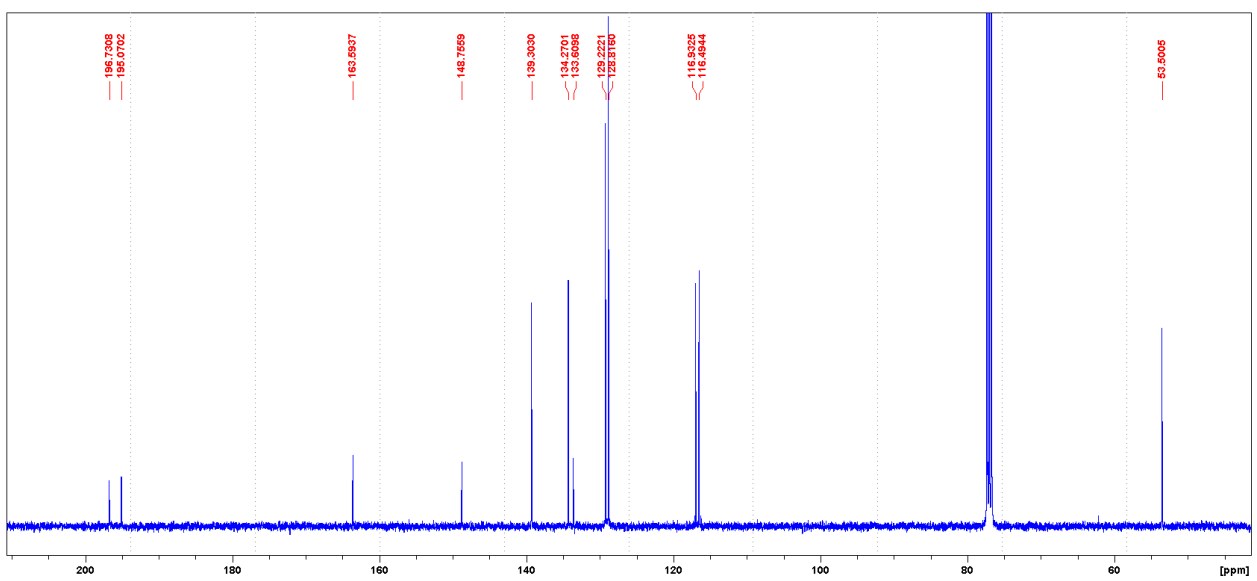
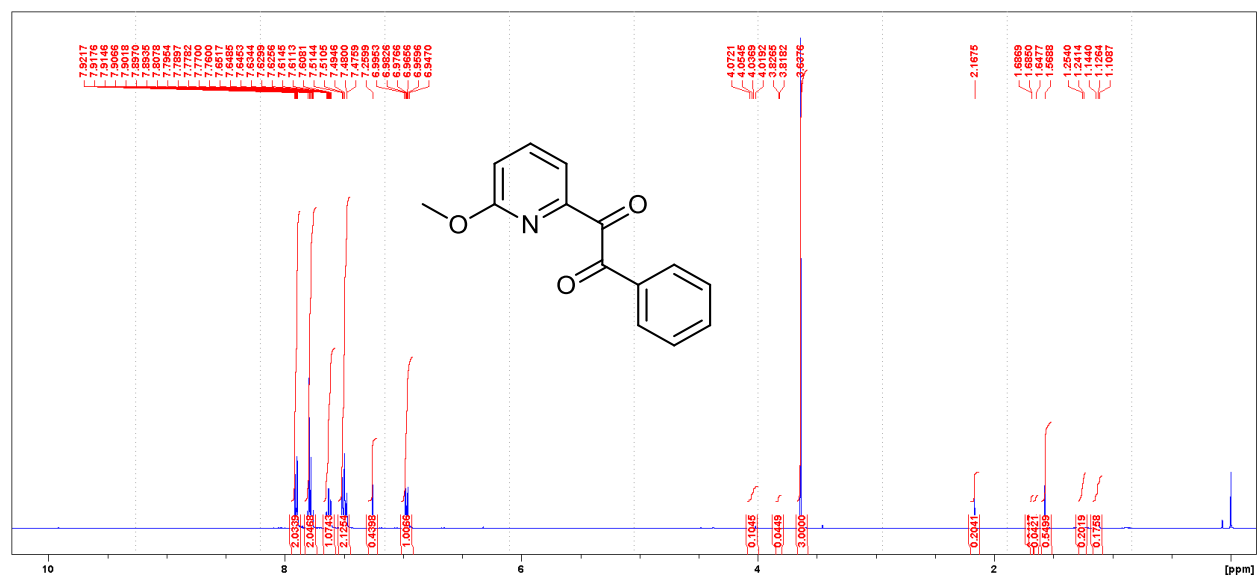




6-Isopropoxy-2-(1,2-dioxo-2-phenylethyl)pyridine (11a) (CDCl<sub>3</sub>)



6-Methoxy-2-(1,2-dioxo-2-phenylethyl)pyridine (11b) (CDCl<sub>3</sub>)



6-Ethanoylamino-2-(1,2-dioxo-2-phenylethyl)pyridine (14) (CDCl<sub>3</sub>)

