

Electronic Supplementary Information

For

Synthesis of tetrahydro- β -carbolines from 2-indolylmethyl azides and propargylic alcohols

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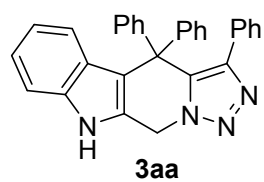
E-mail: wsychem@163.com

Table of Contents

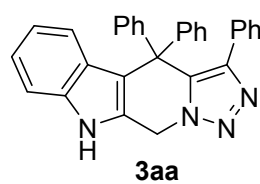
Copies of ¹H NMR and ¹³C NMR	S2-S39
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Copies of ^1H NMR and ^{13}C NMR

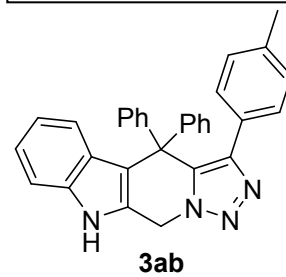
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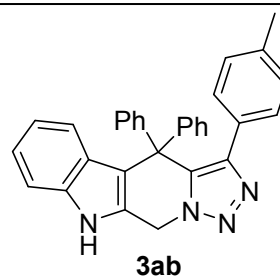
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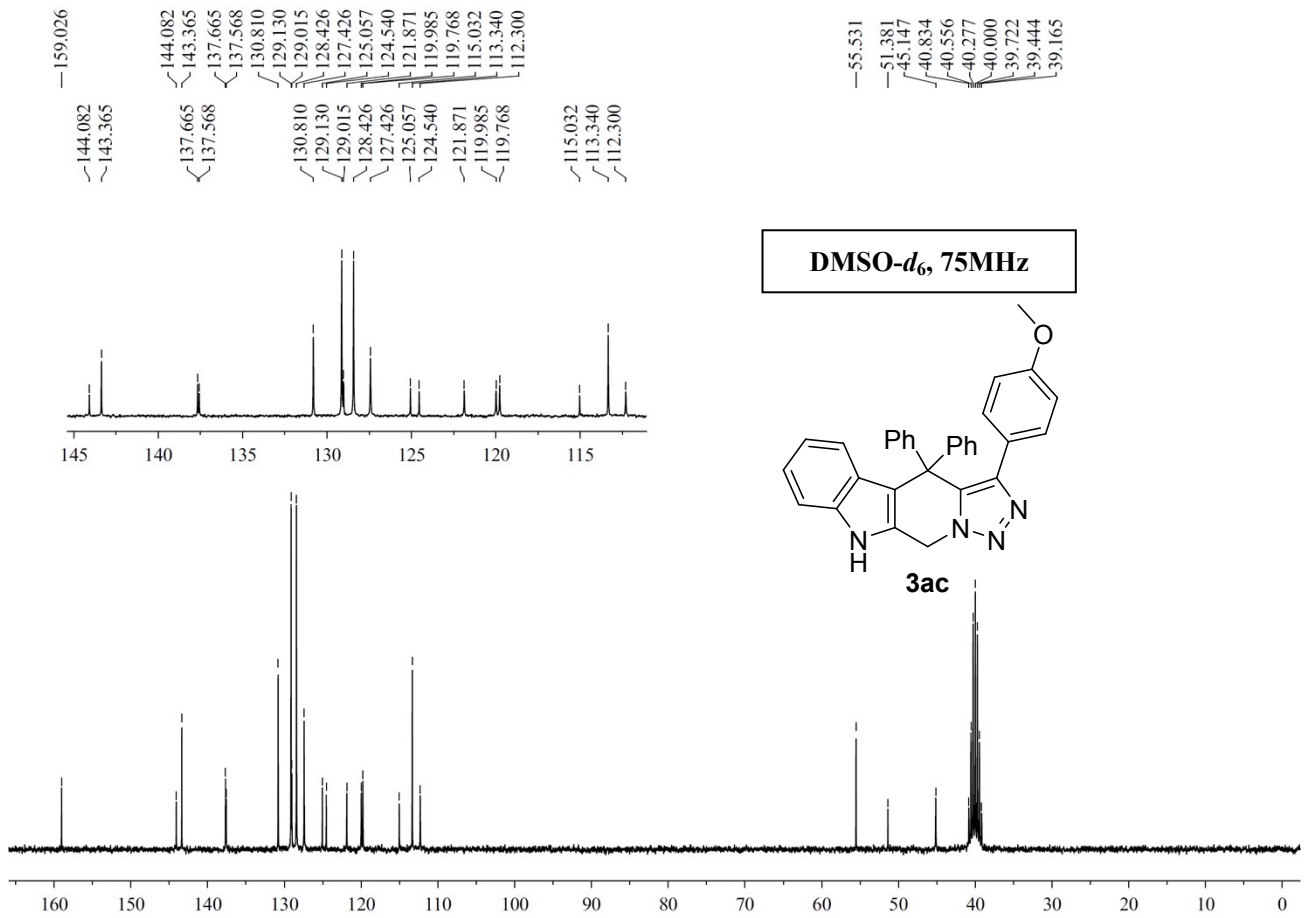
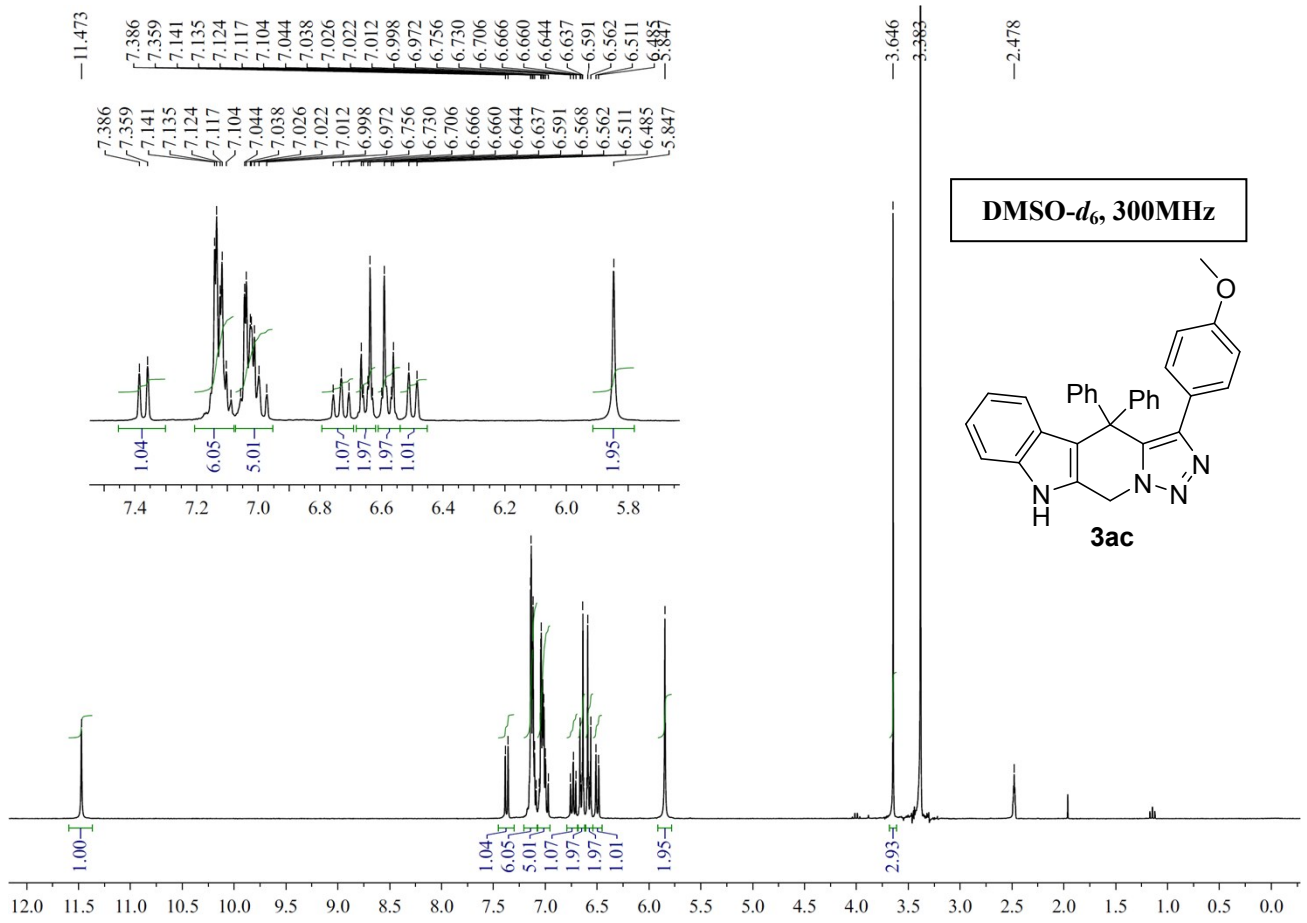


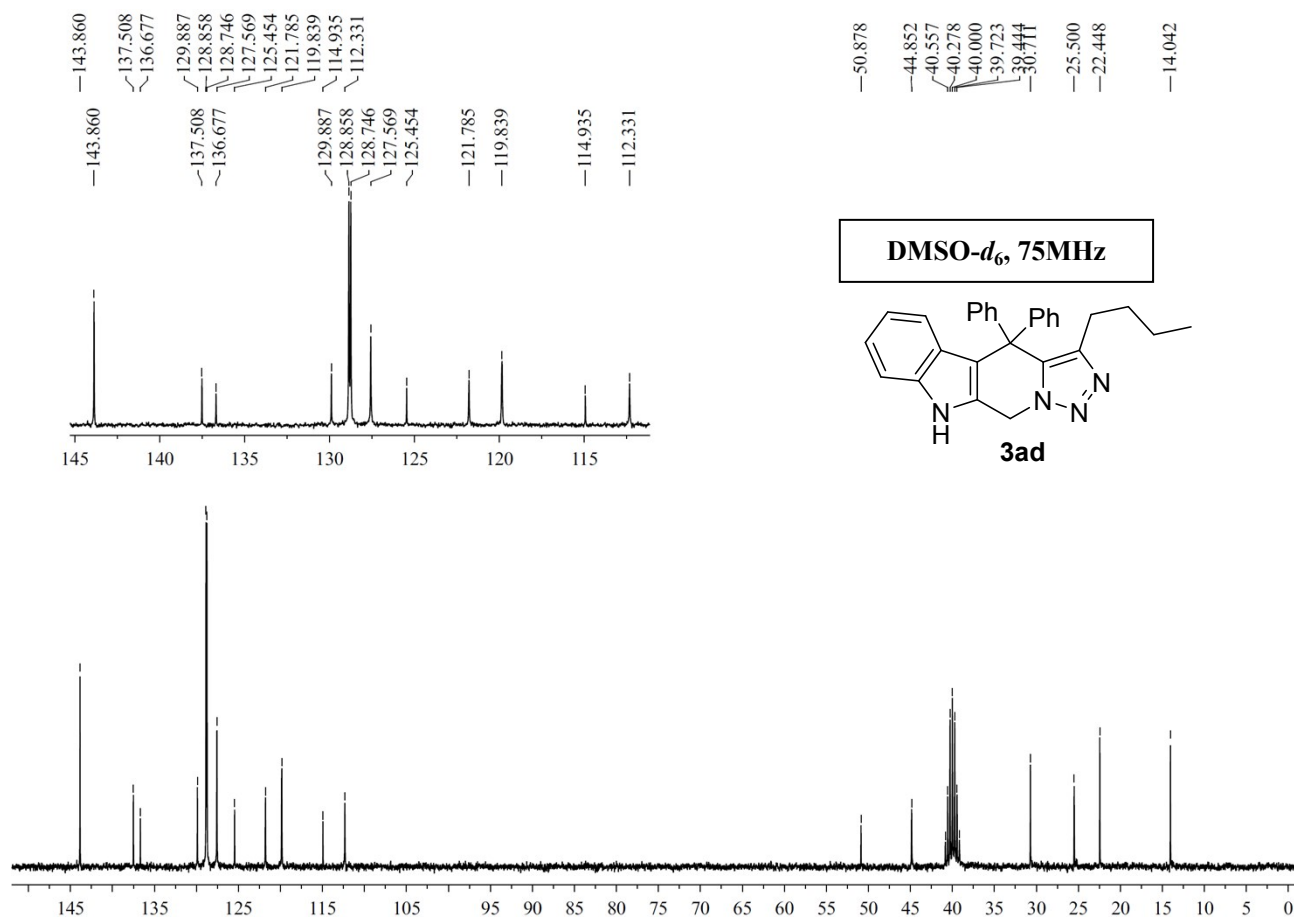
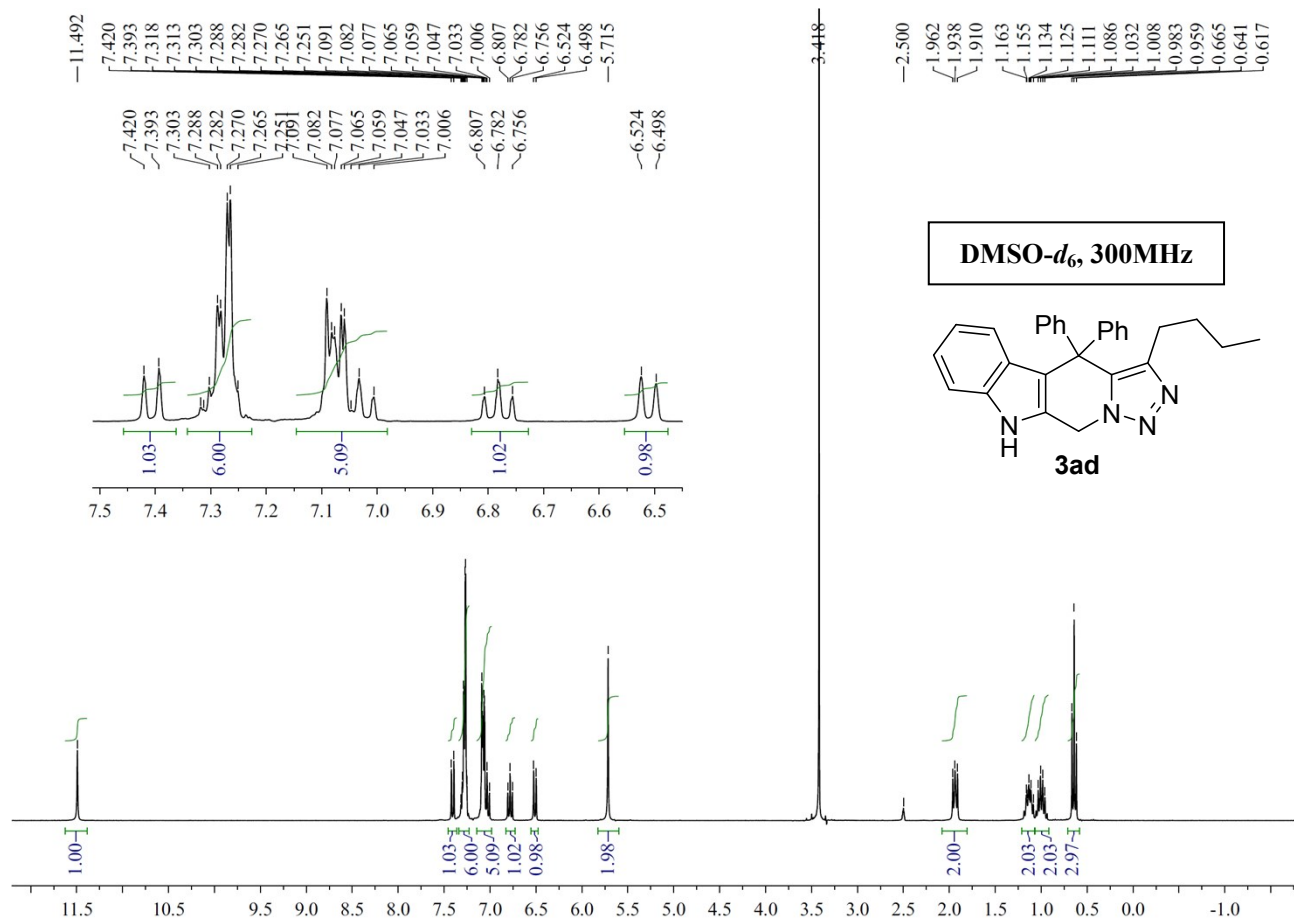
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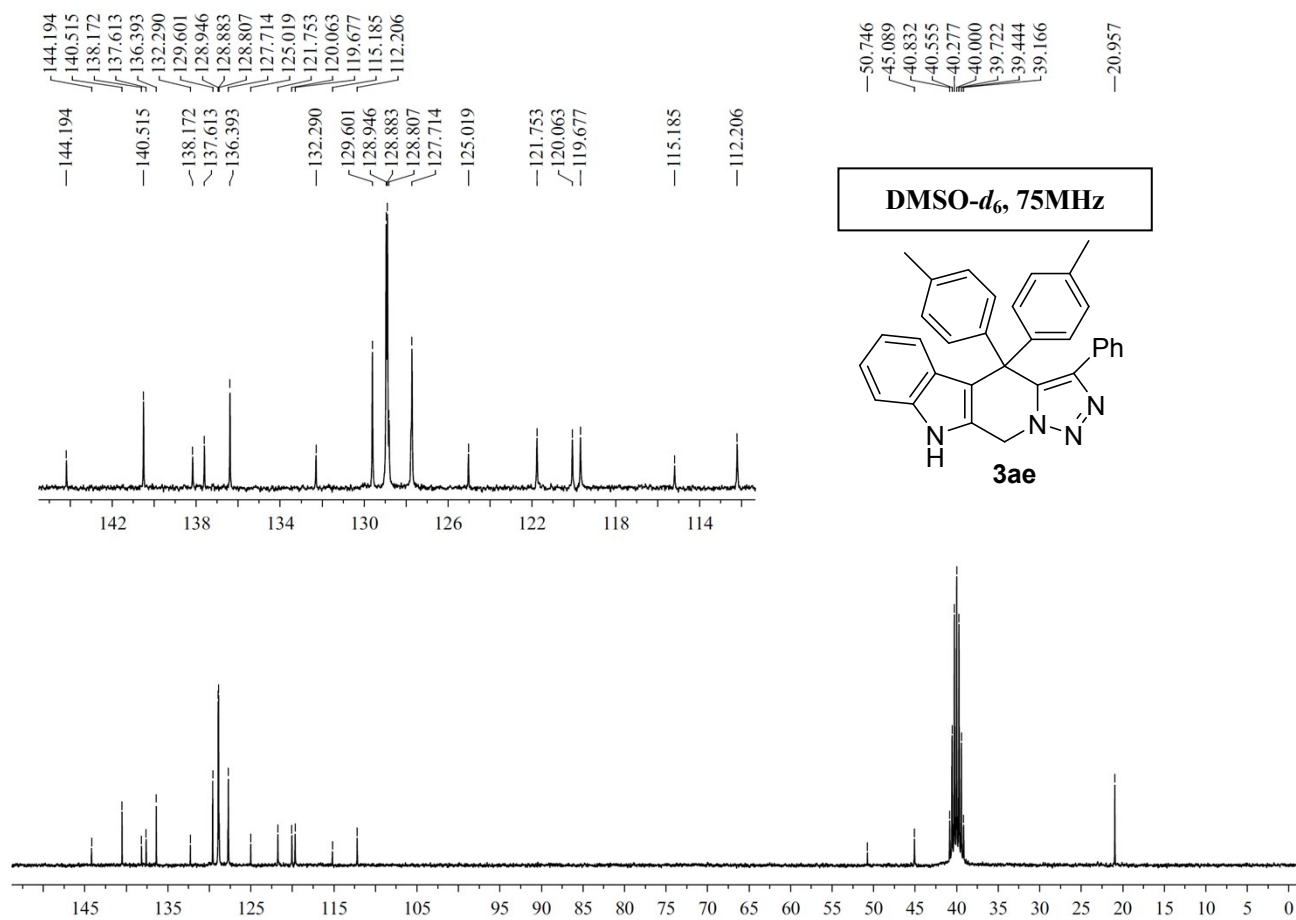
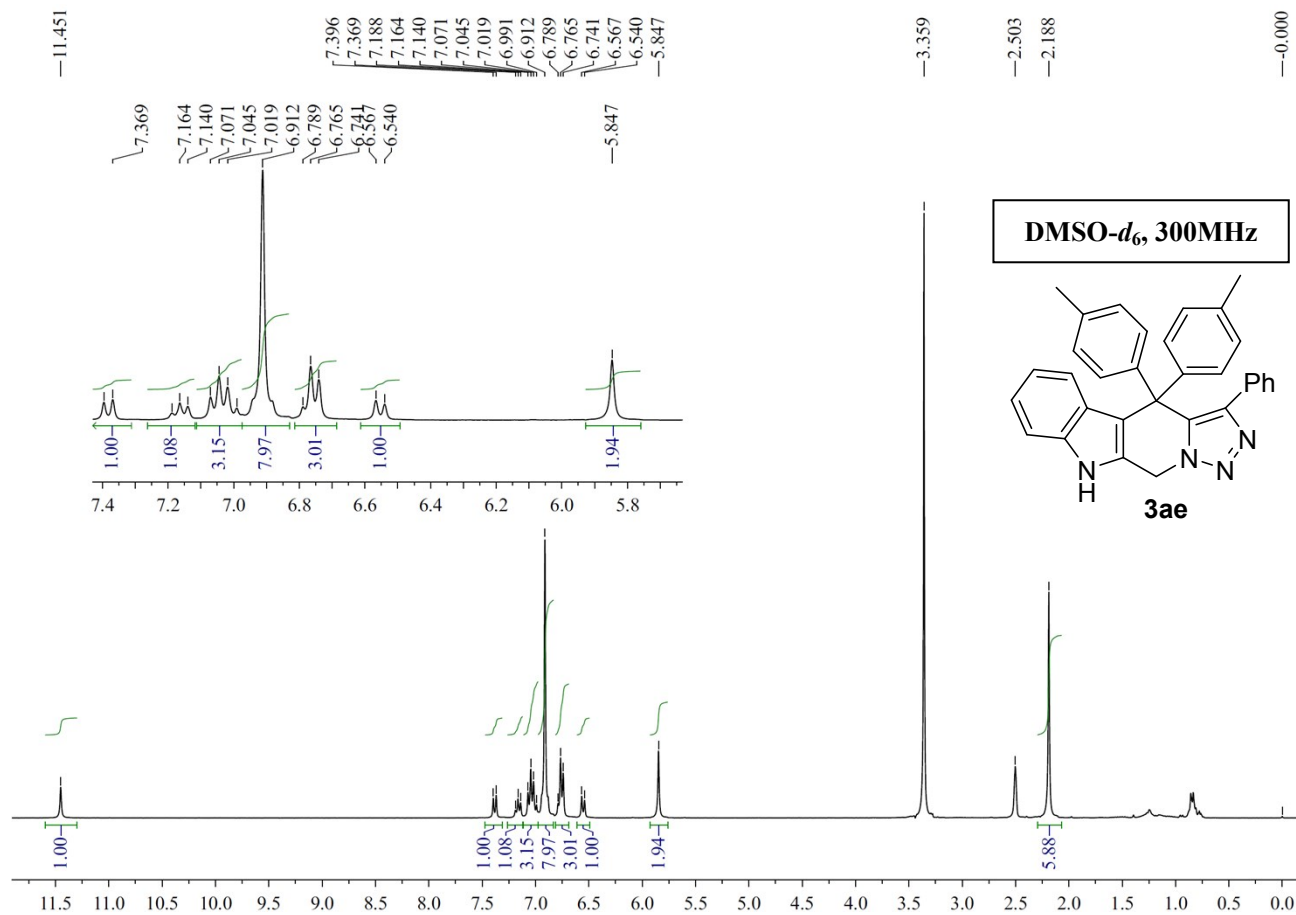


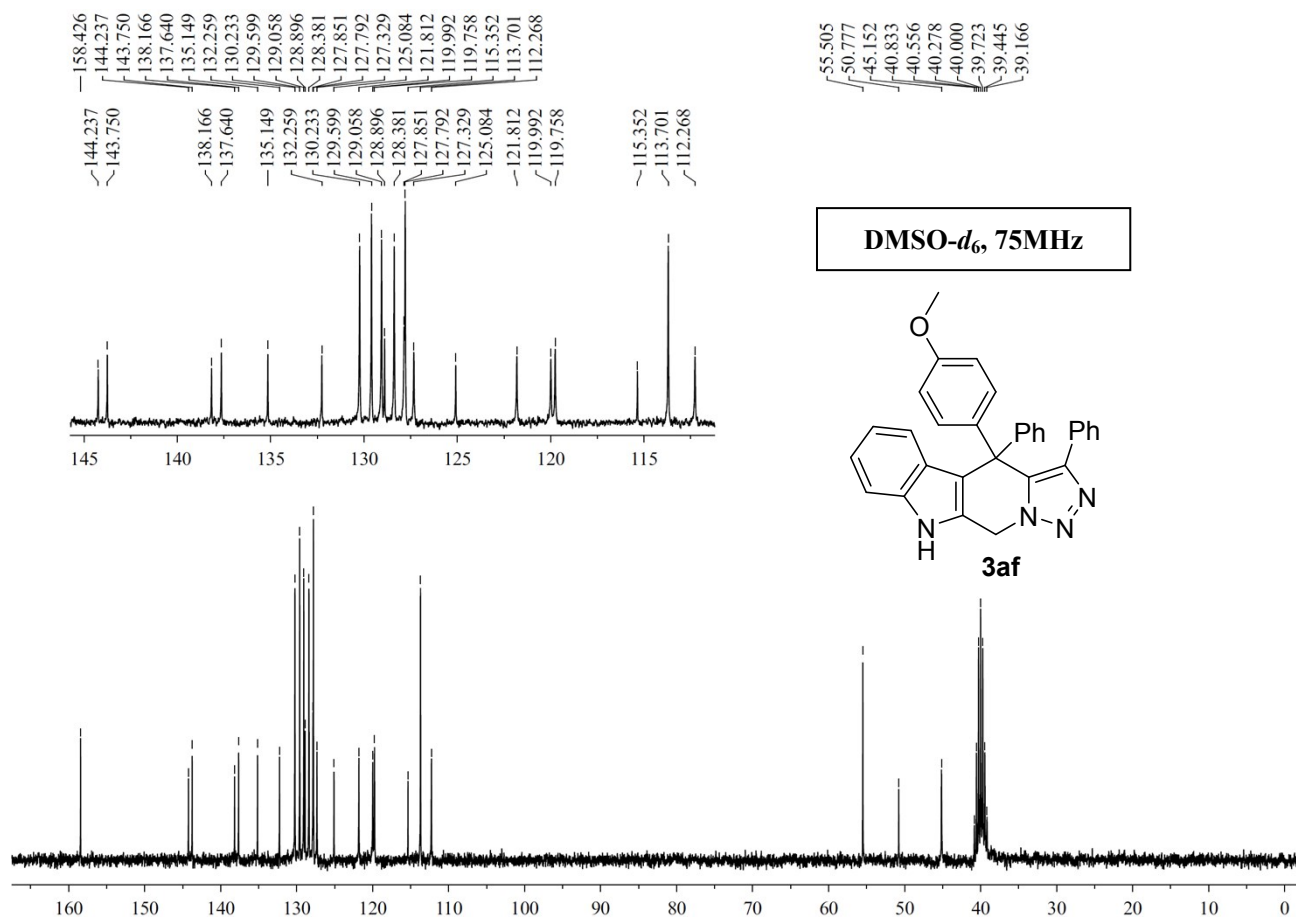
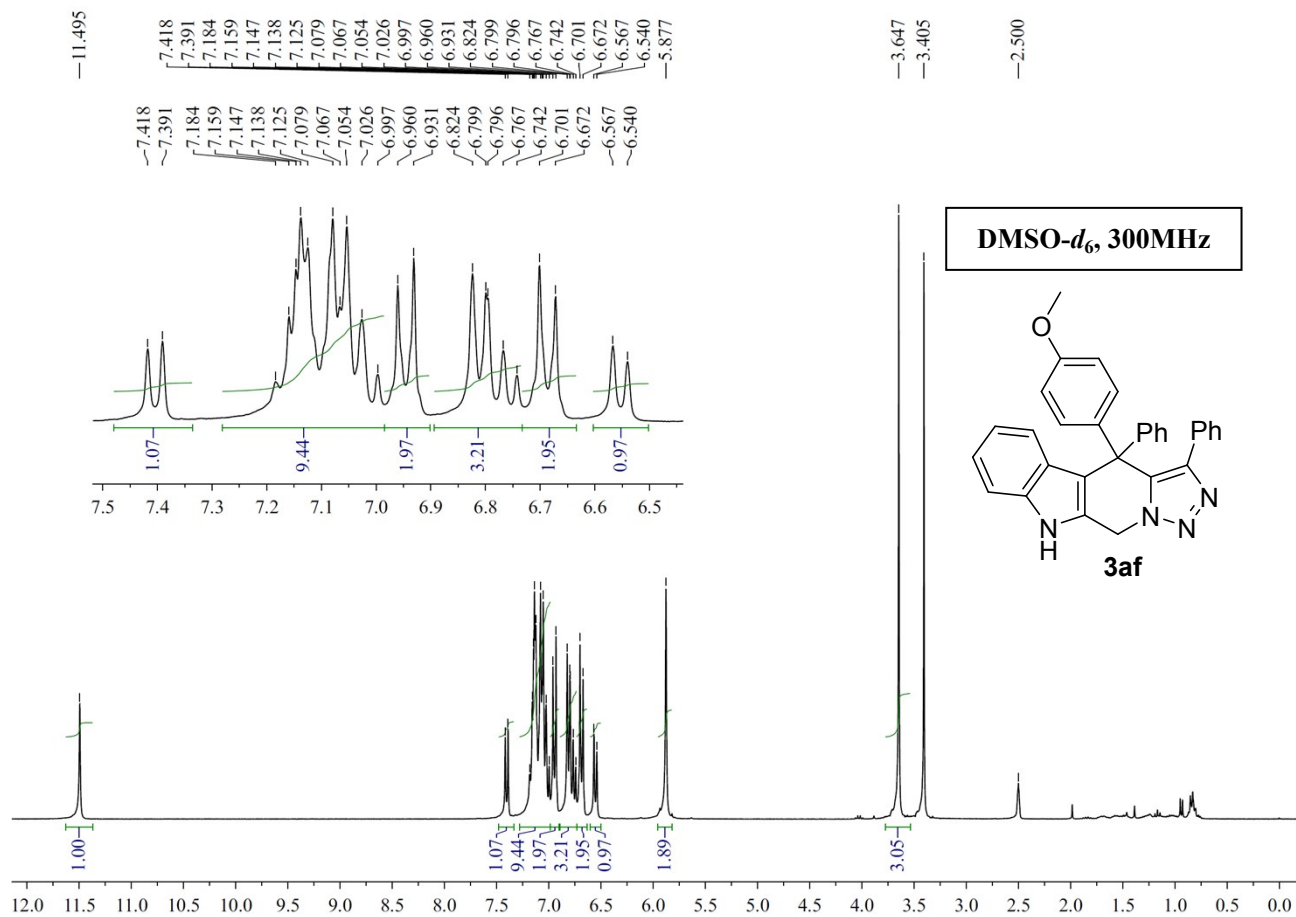
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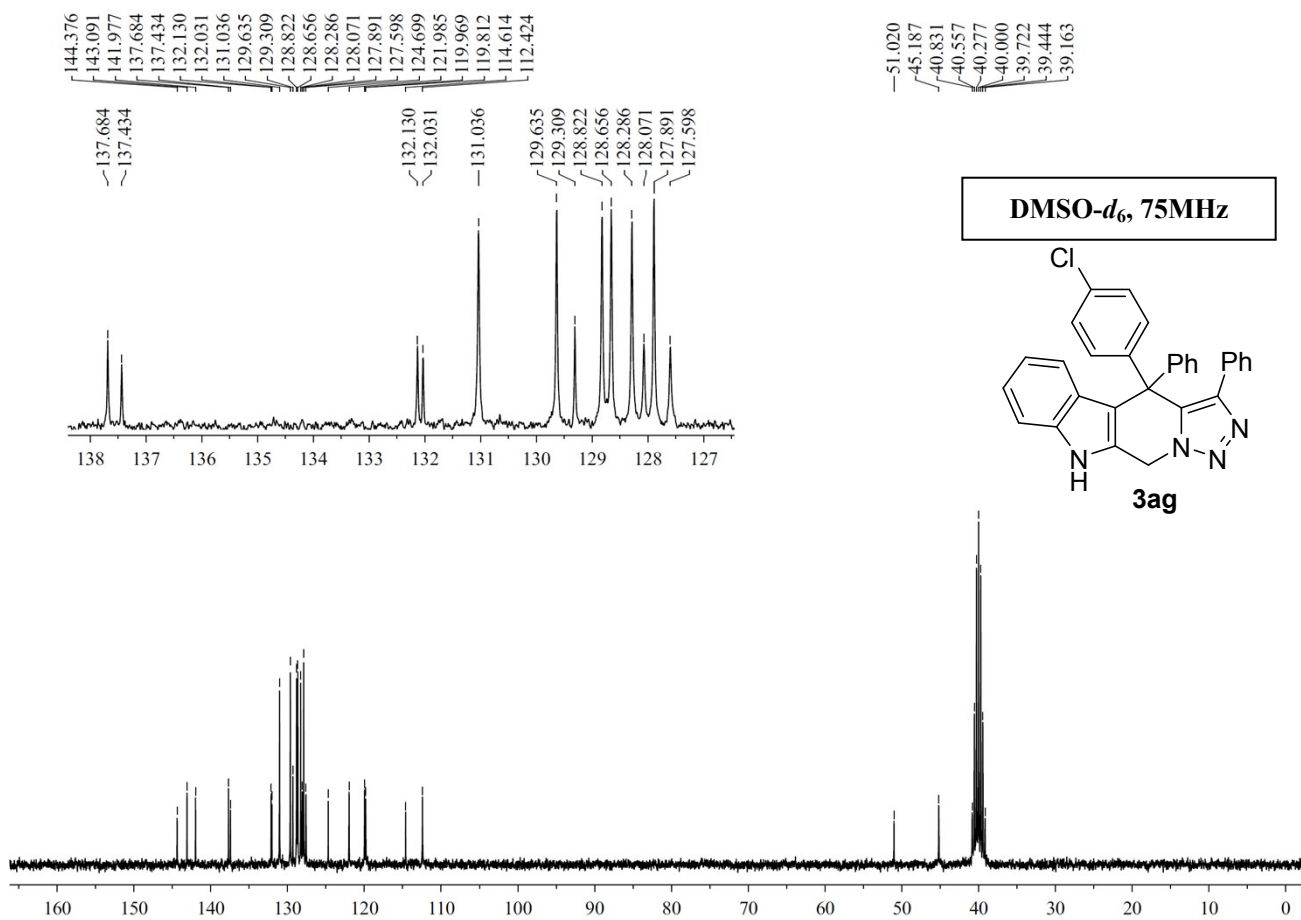
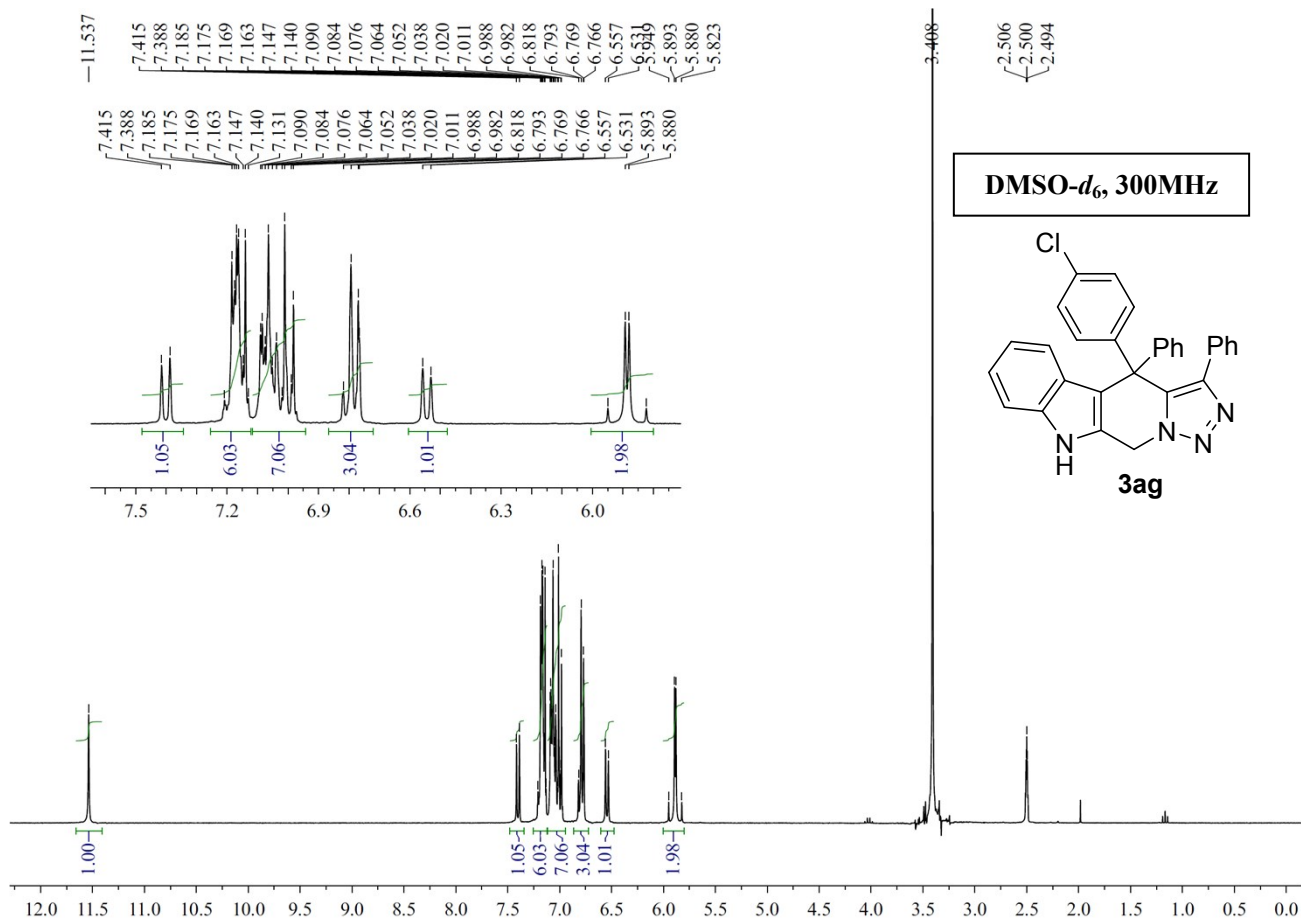


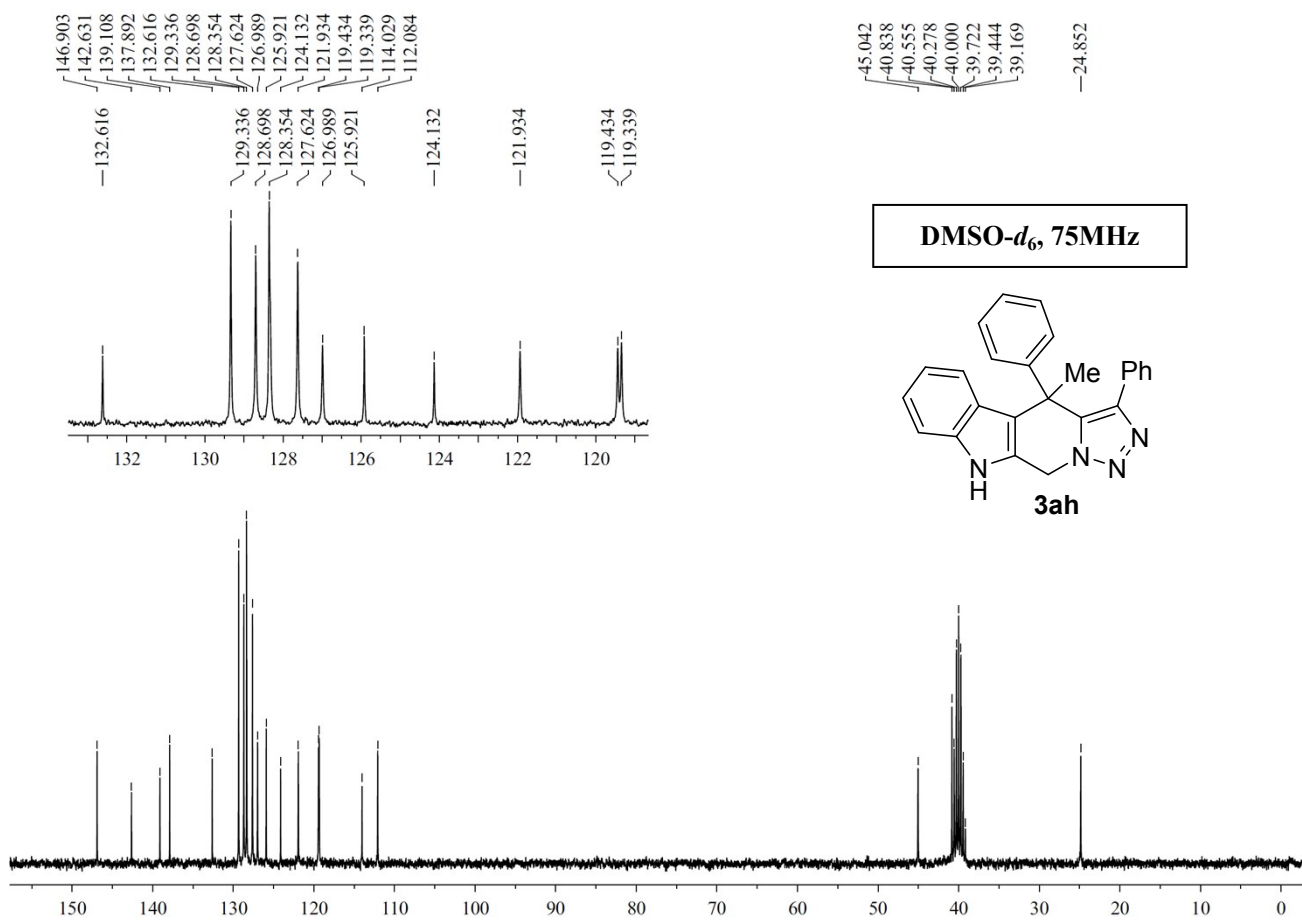
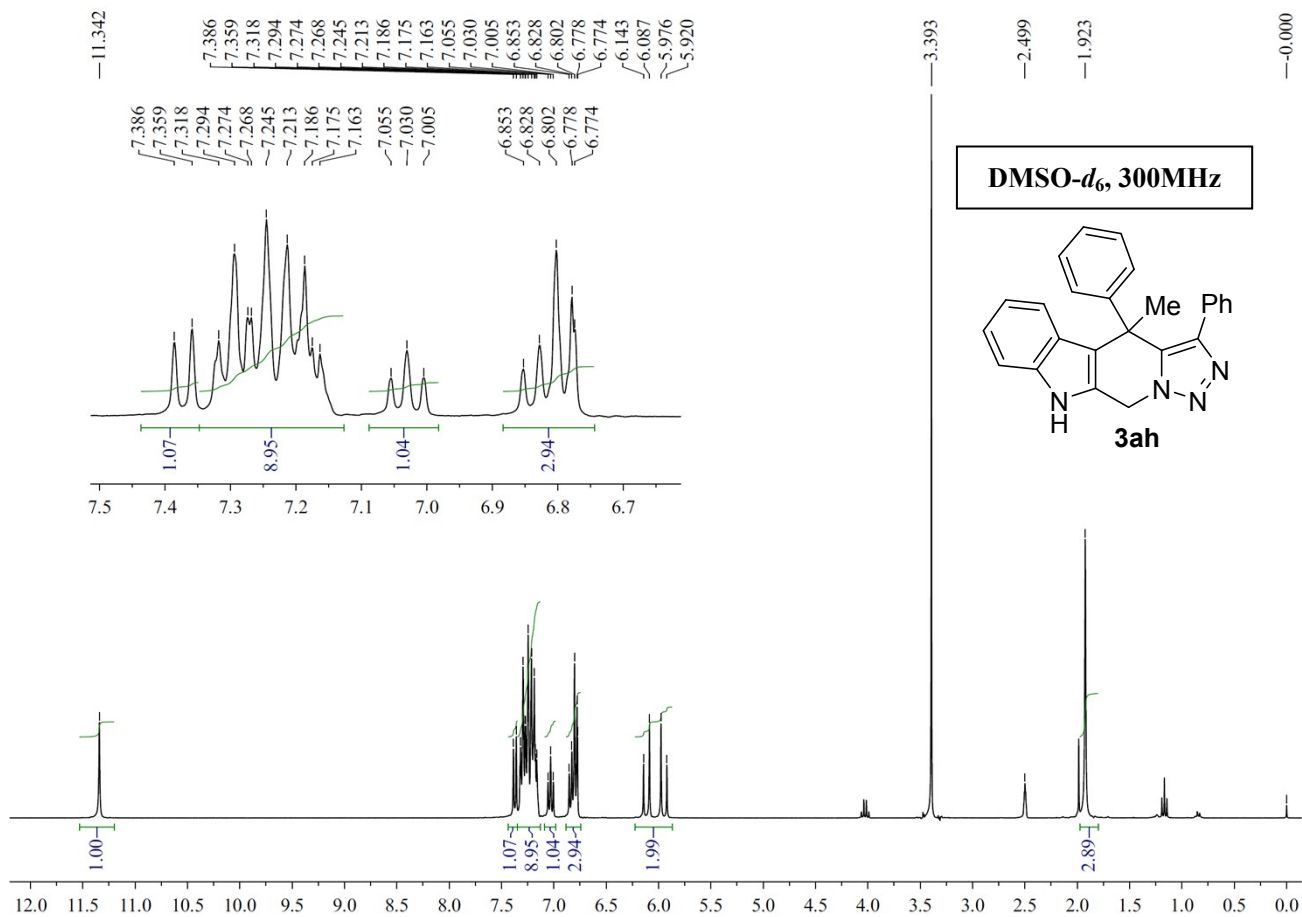


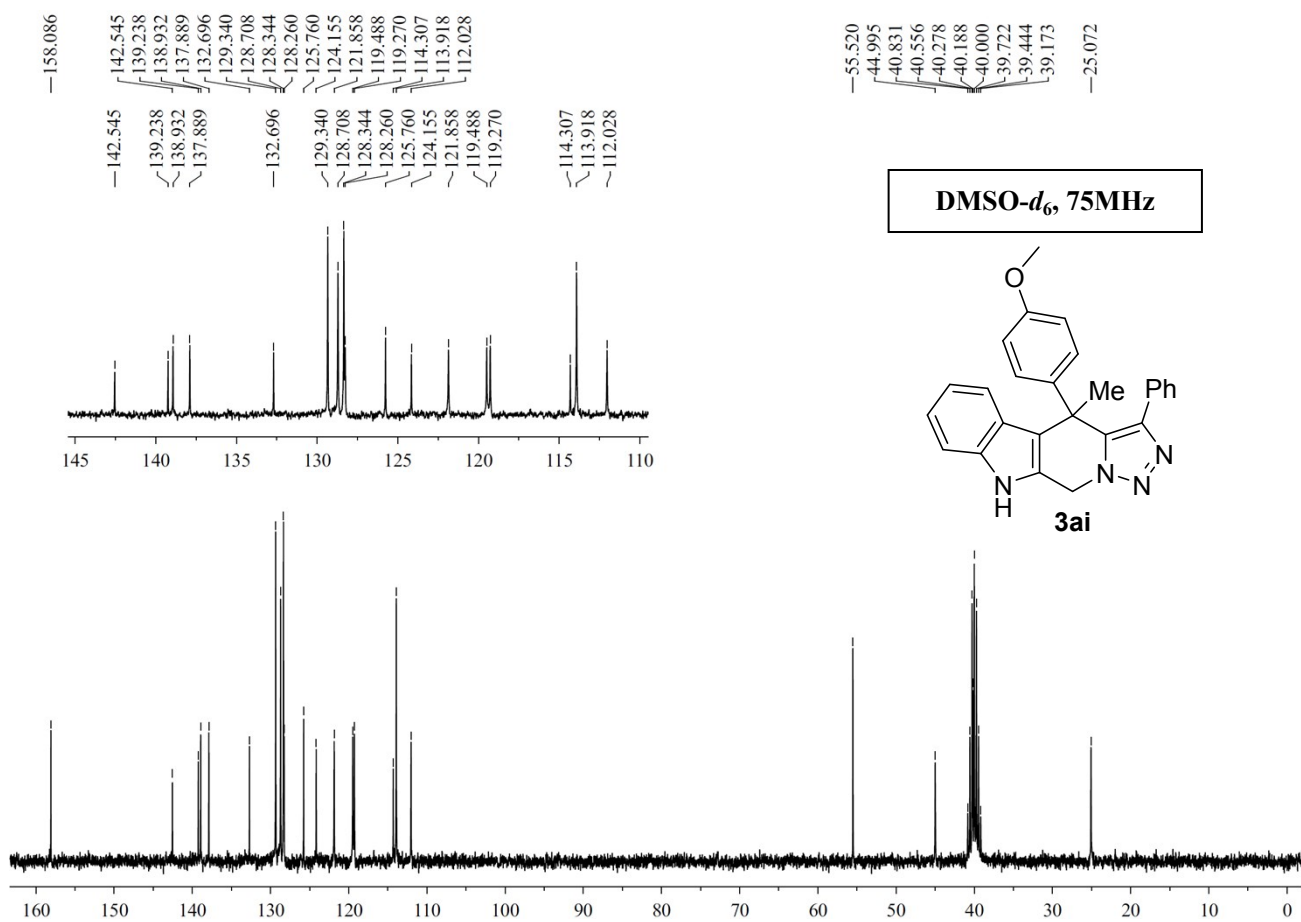
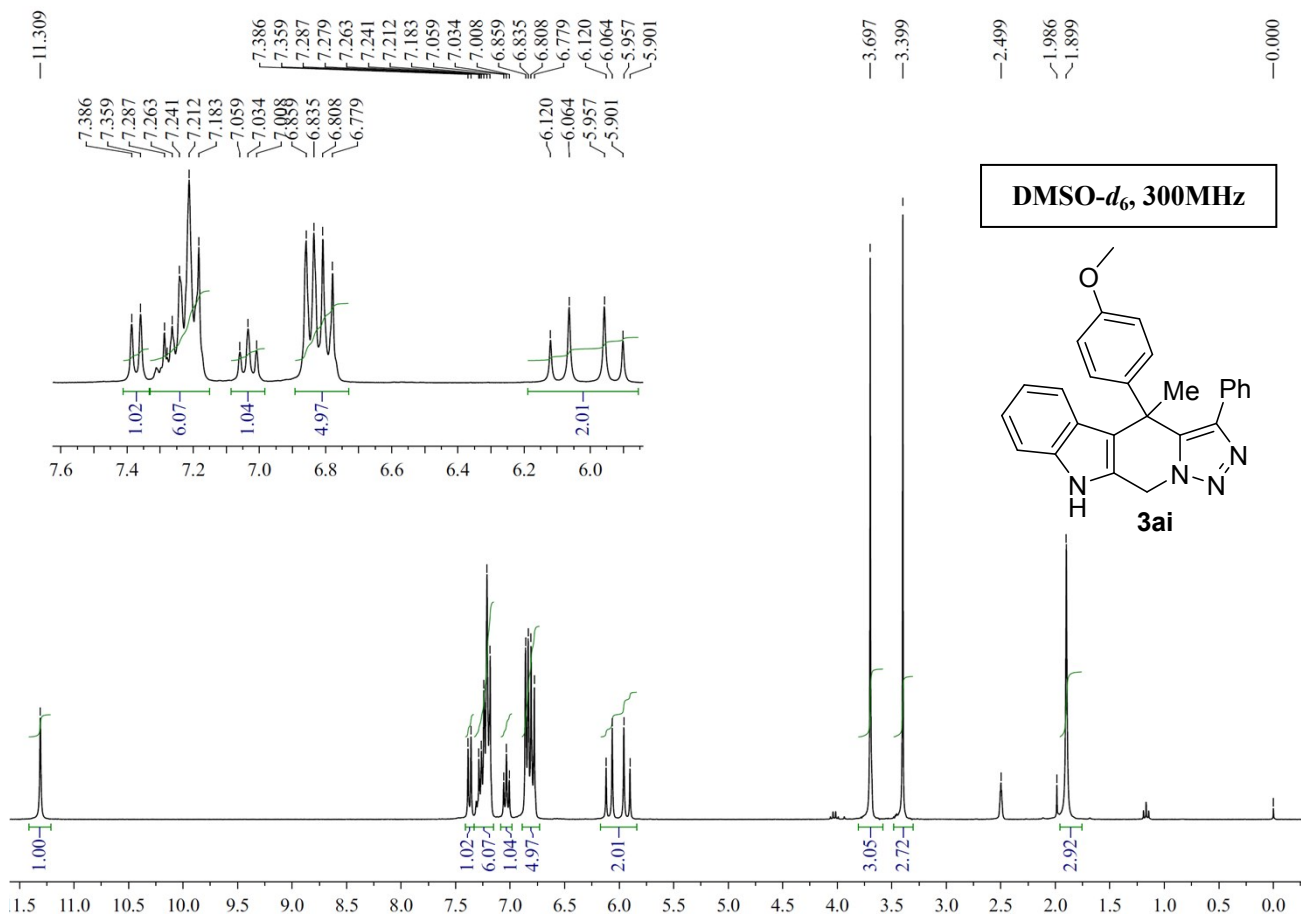


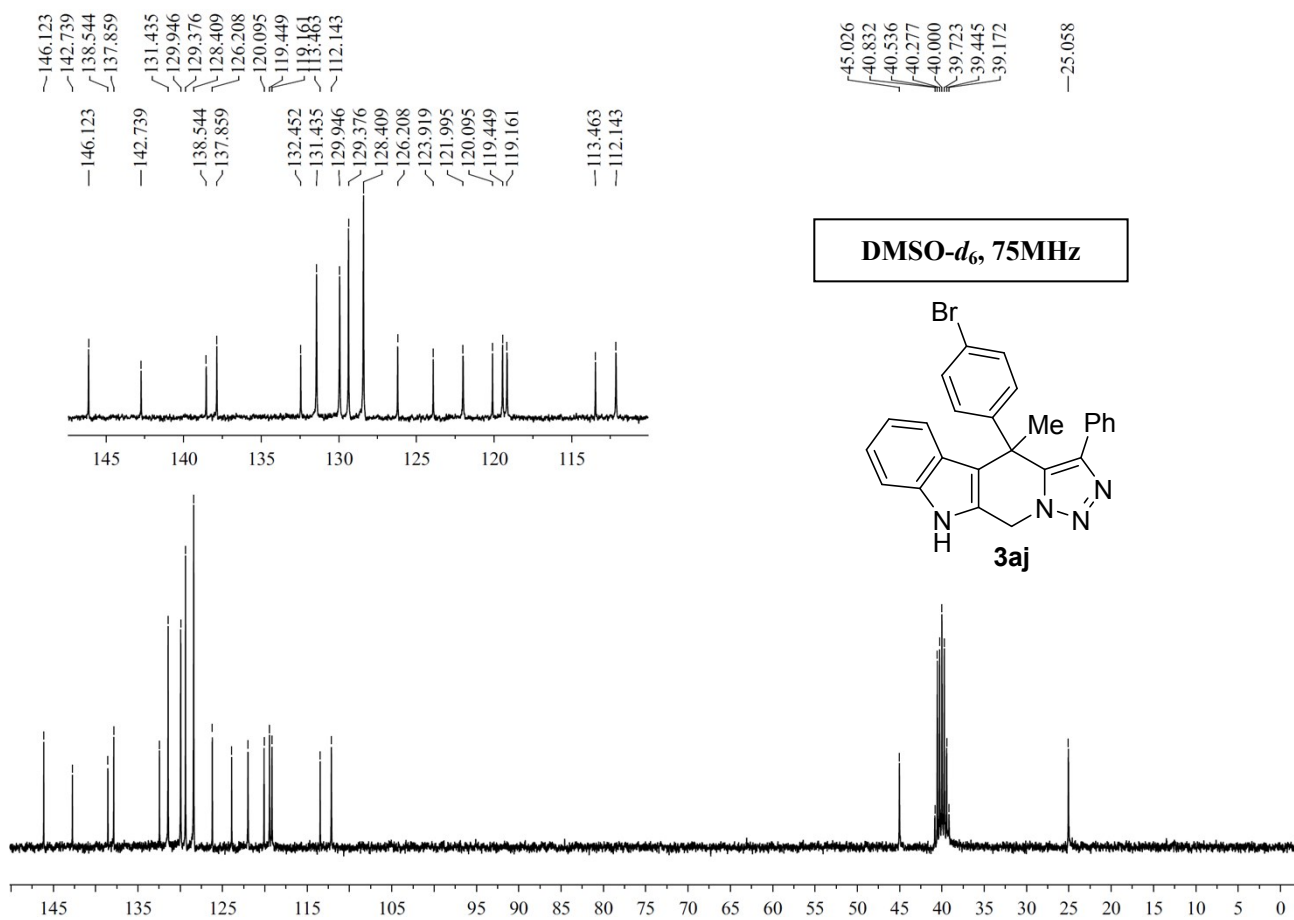
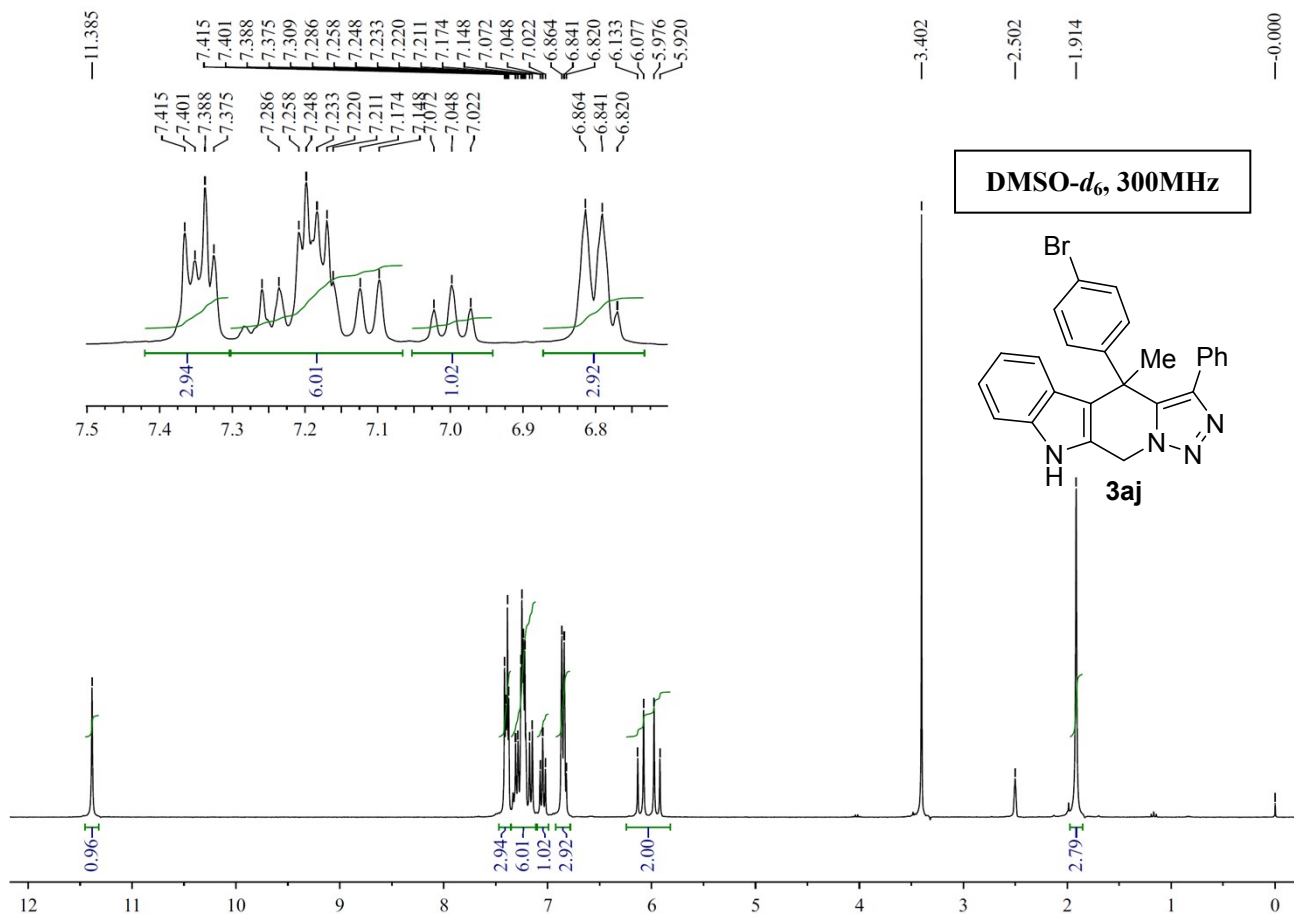




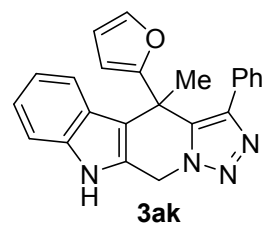




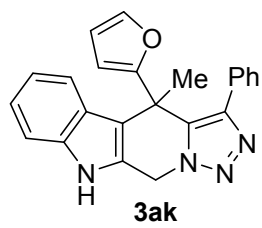


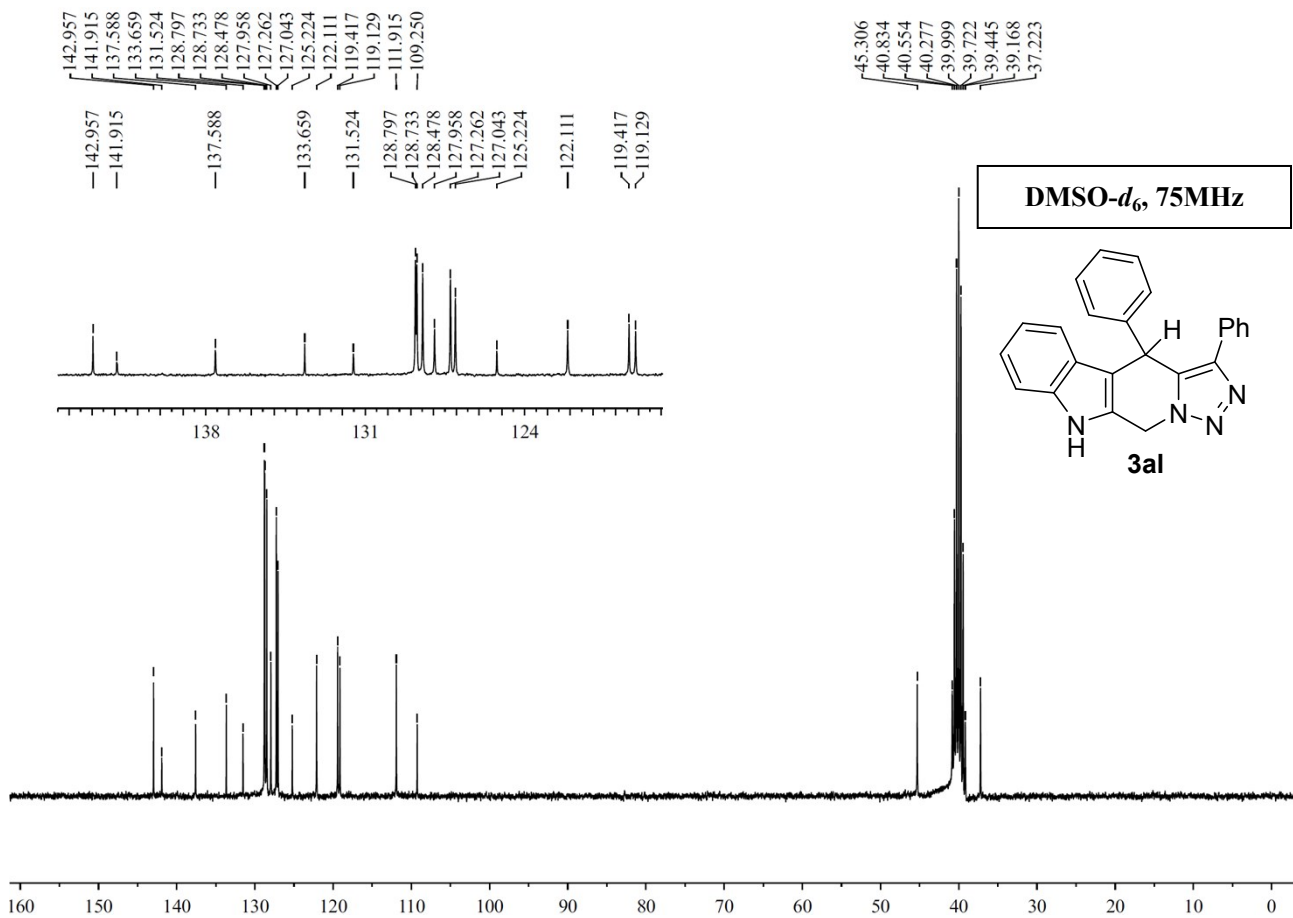
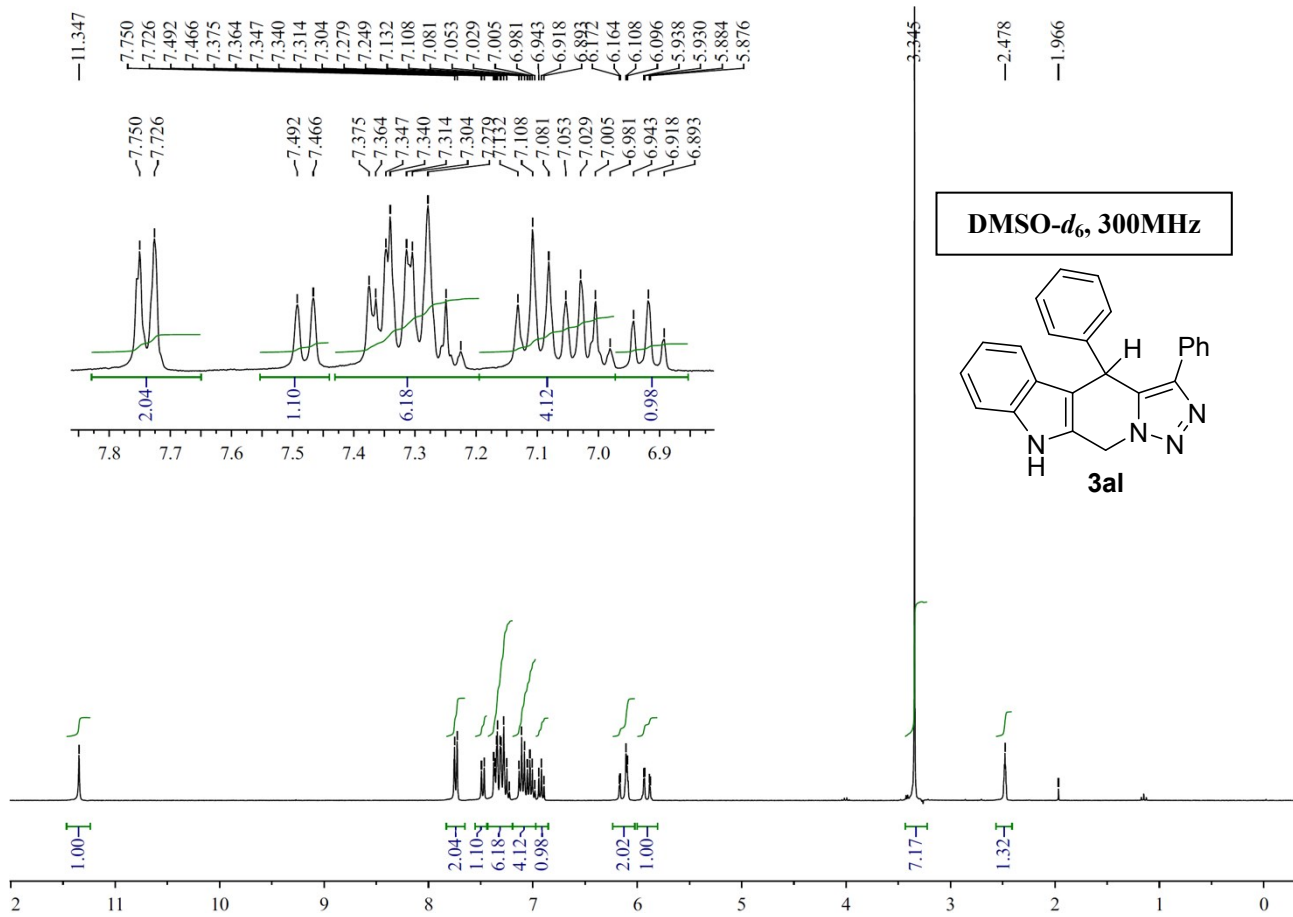


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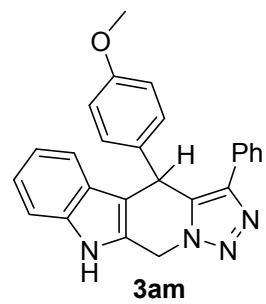


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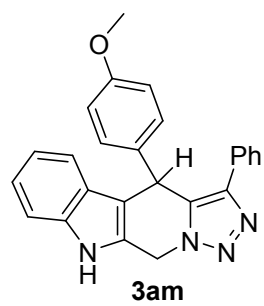




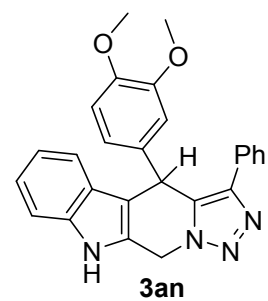
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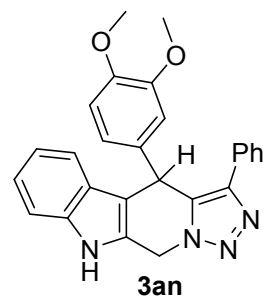
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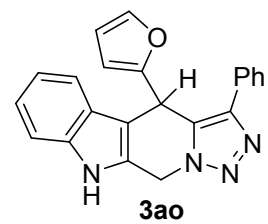
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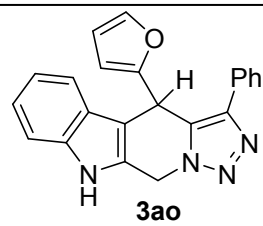
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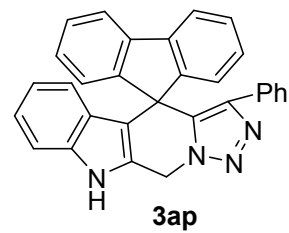
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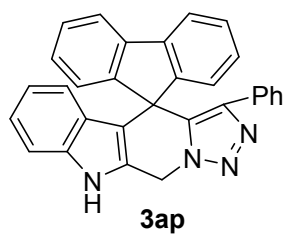
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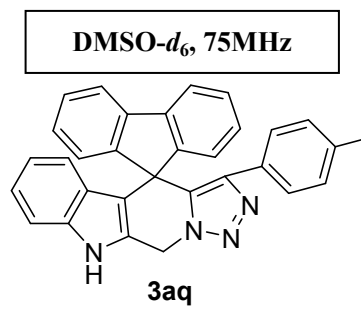
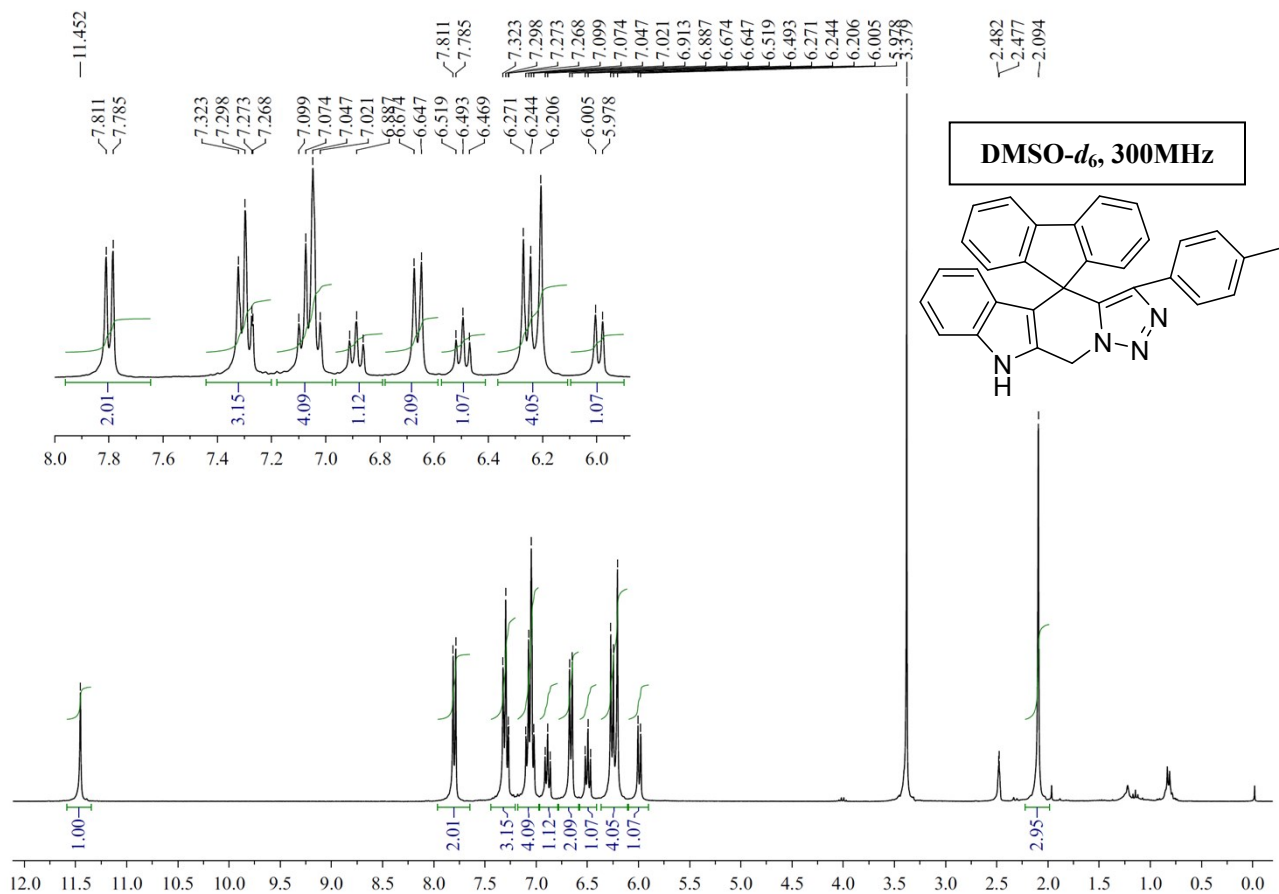


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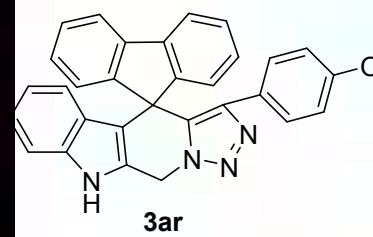
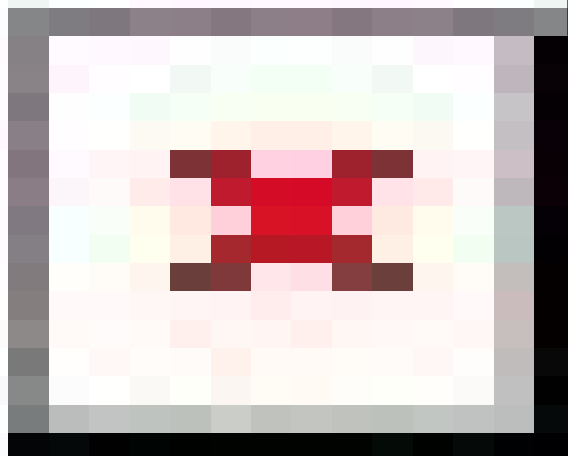


DMSO-*d*₆, 75MHz

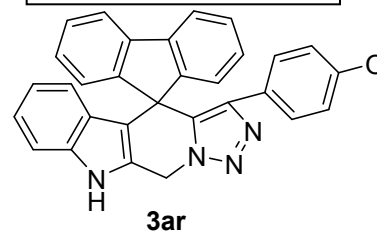


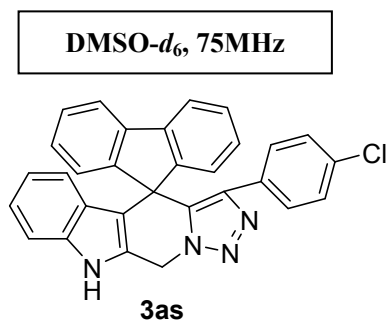
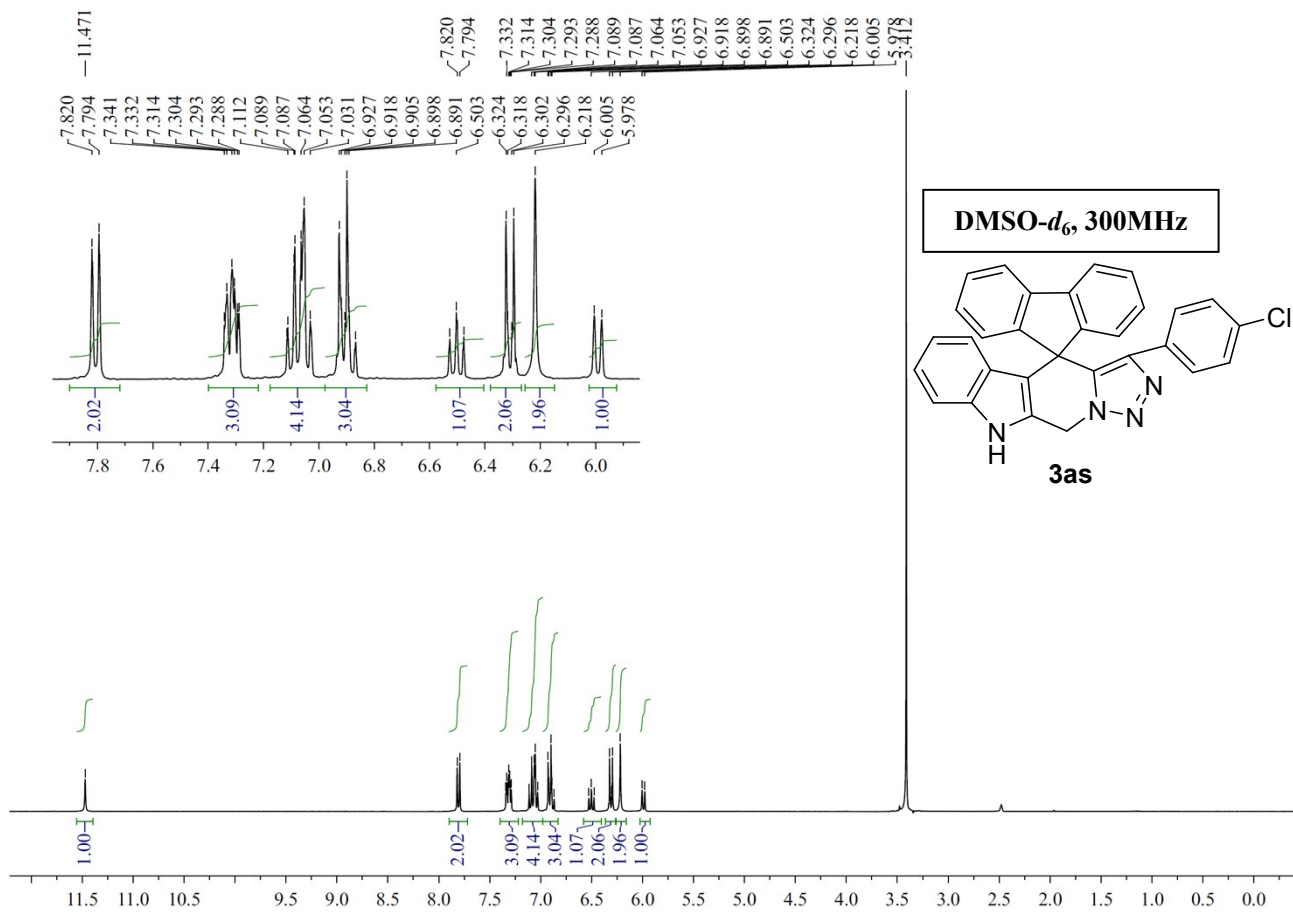


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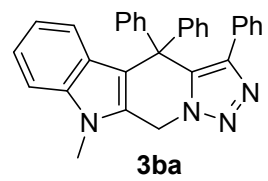


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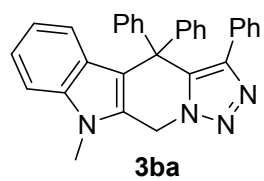




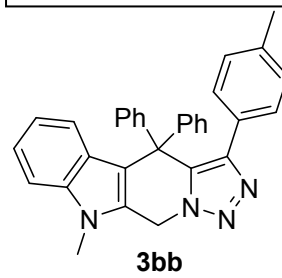
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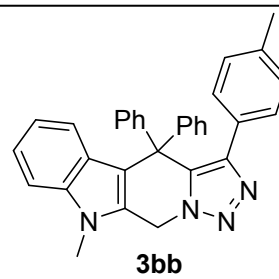
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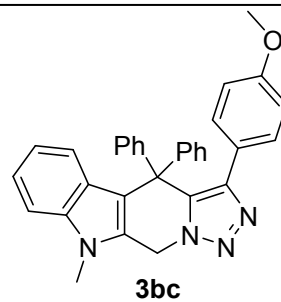
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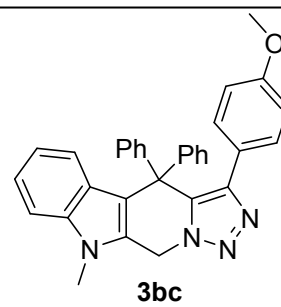
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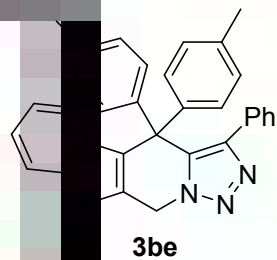
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DMSO-*d*₆, 75MHz



DMSO-*d*₆, 300MHz



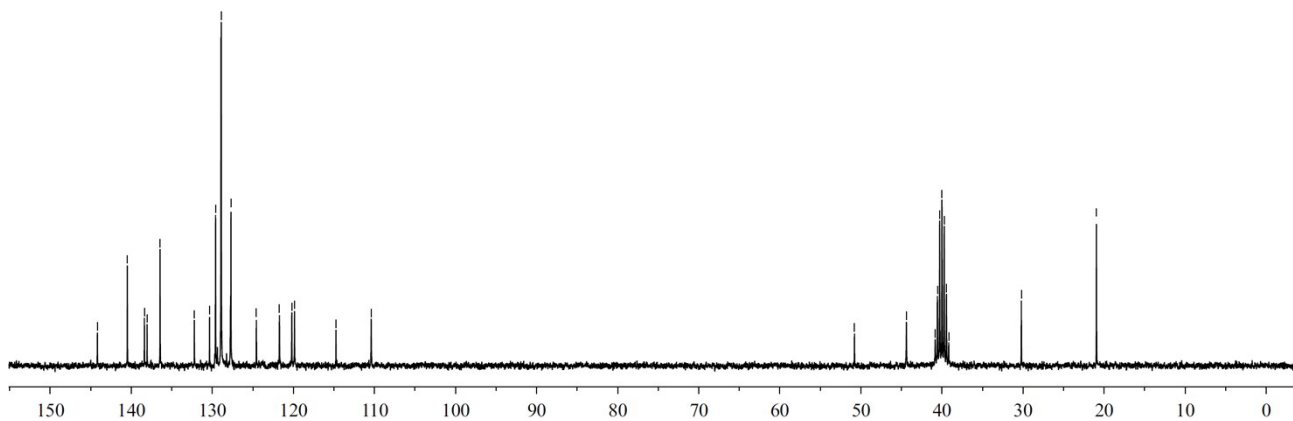
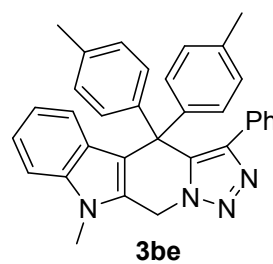
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127.770
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120.197
119.864
114.747
110.402

144.182
140.482
138.378
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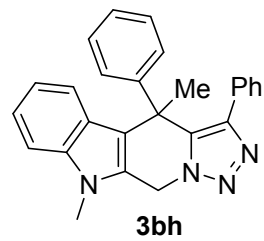
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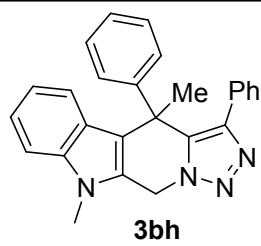
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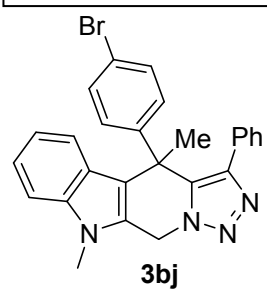
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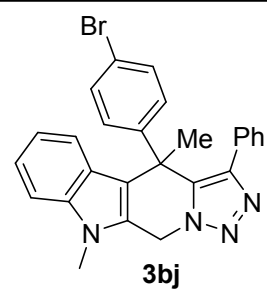
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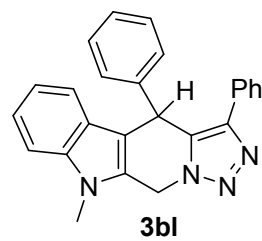
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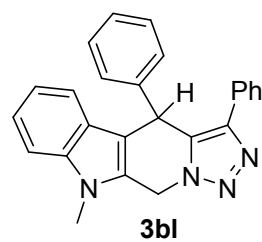
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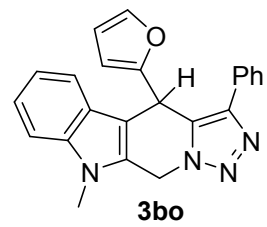
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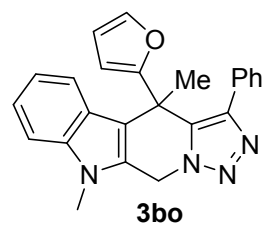
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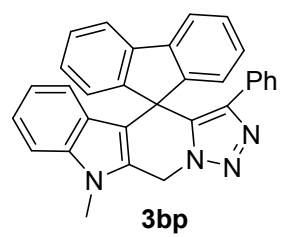
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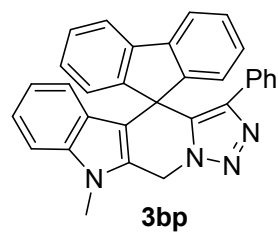
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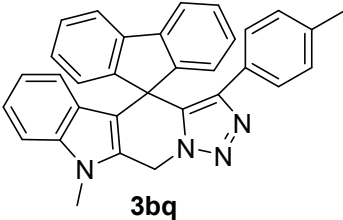
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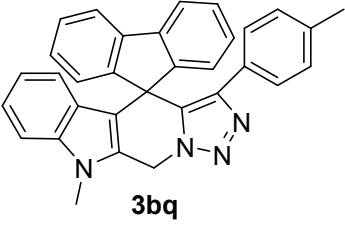
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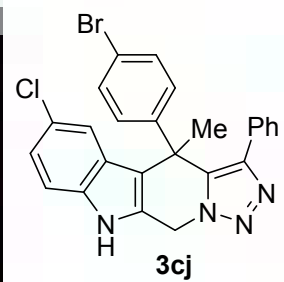
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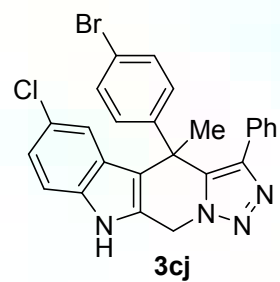
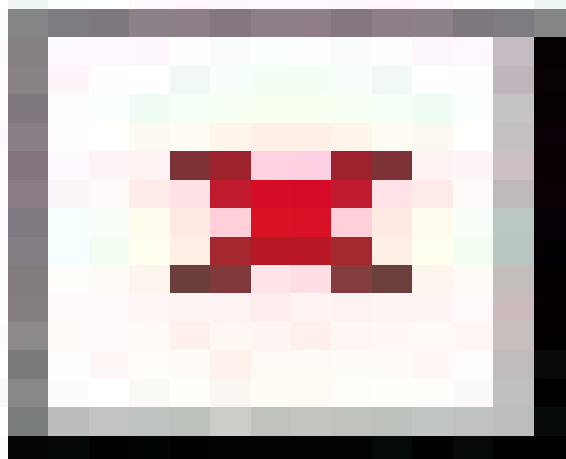
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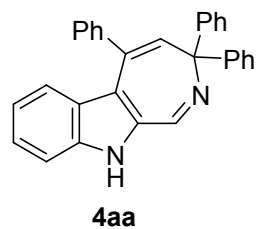
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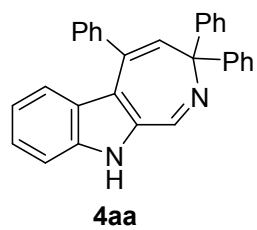
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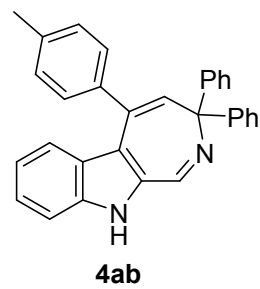
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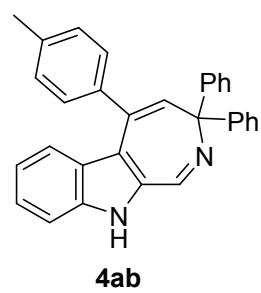
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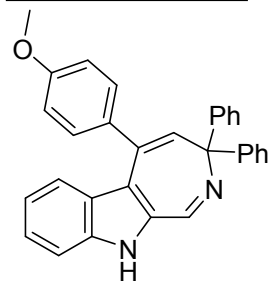
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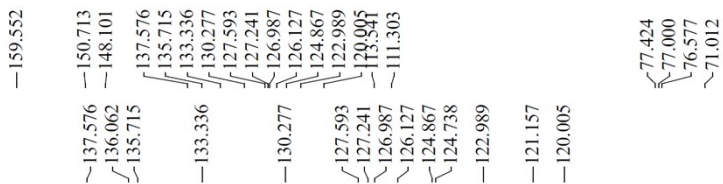
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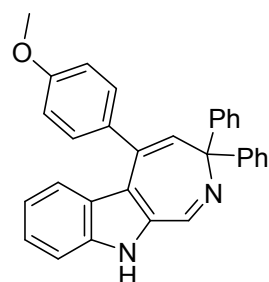
CDCl₃, 300MHz



4ac



CDCl₃, 75MHz



4ac

