

**Chiral squaramide-catalysed enantioselective Michael/cyclization
cascade reaction of 3-hydroxyoxindoles with α,β -unsaturated
N-acylated succinimides**

Sheng Ming, Bo-Liang Zhao and Da-Ming Du*

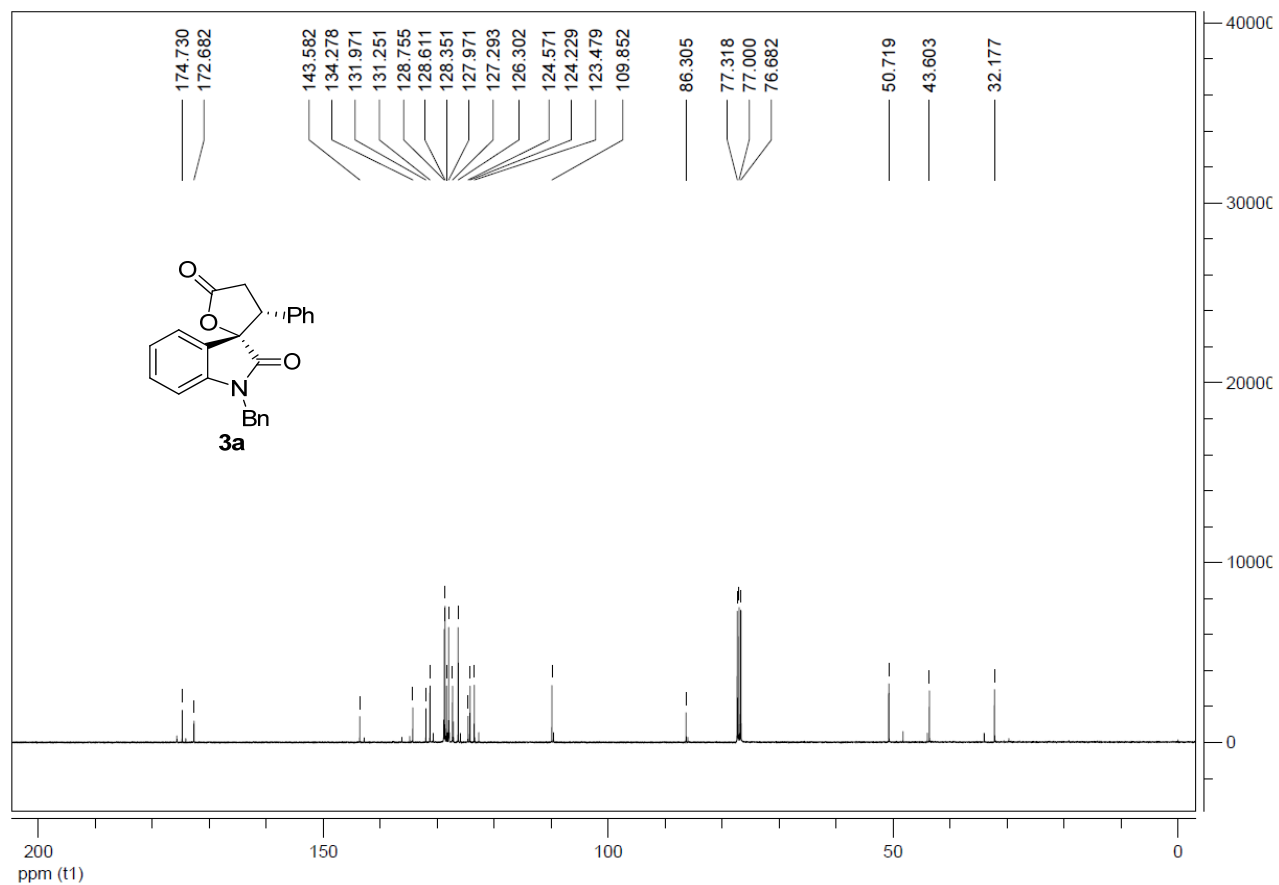
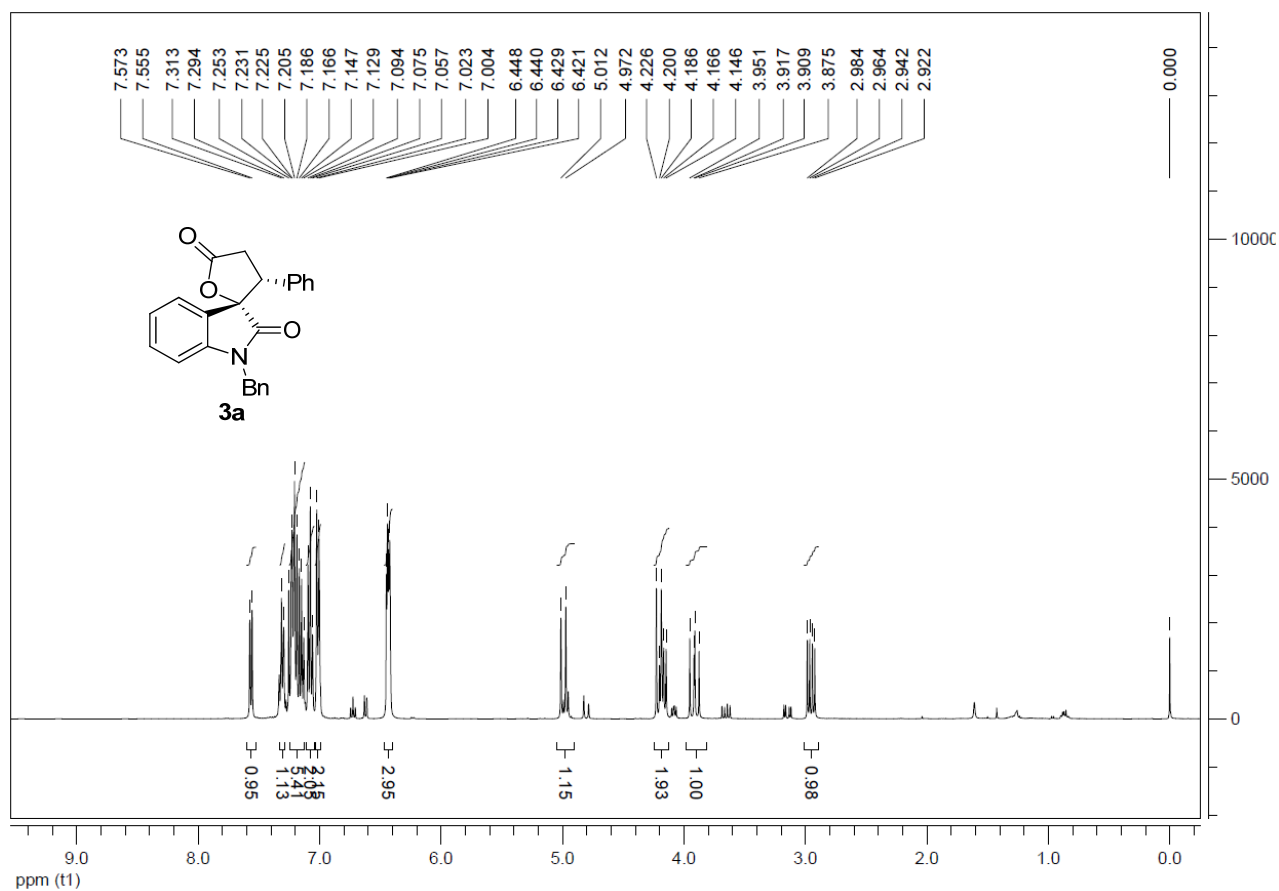
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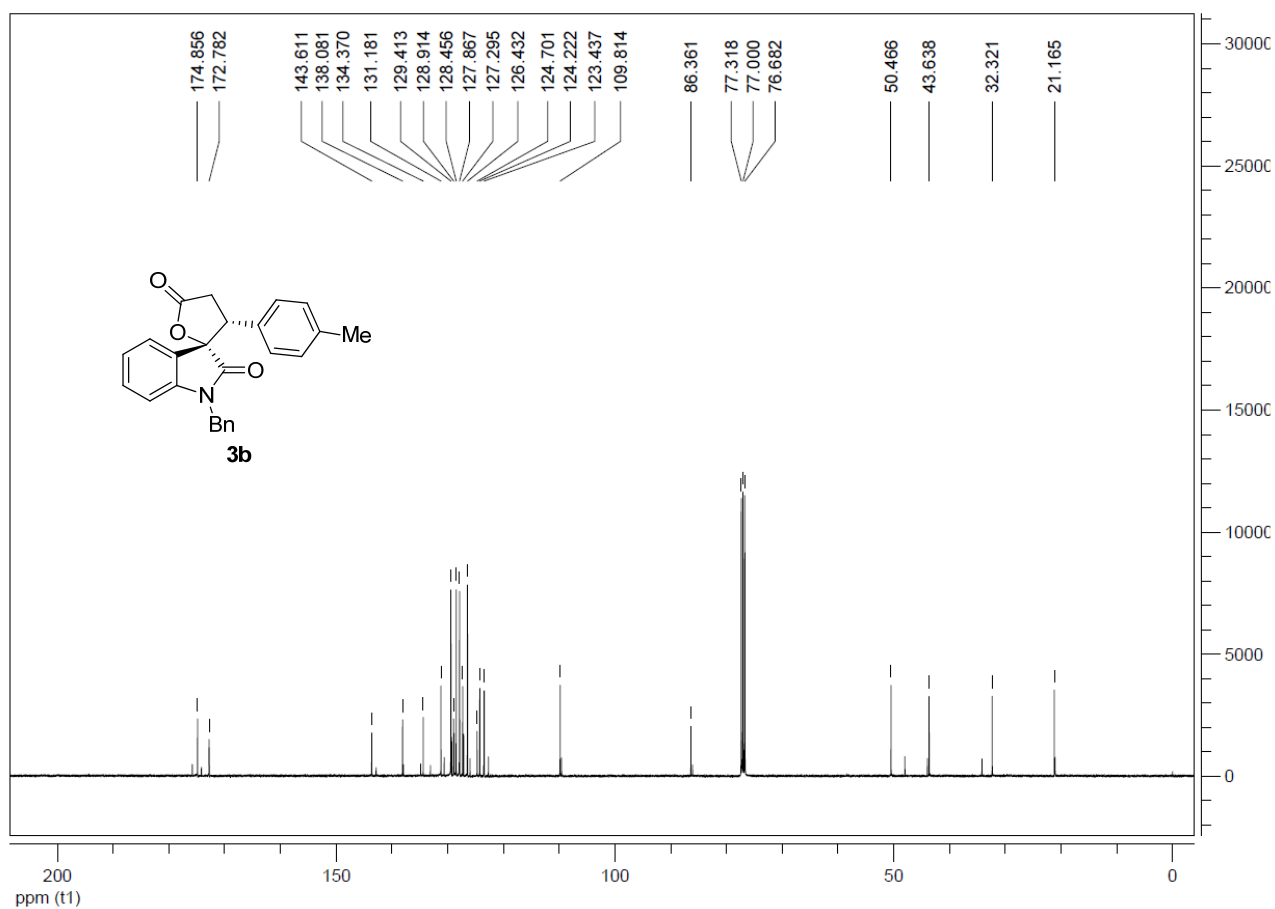
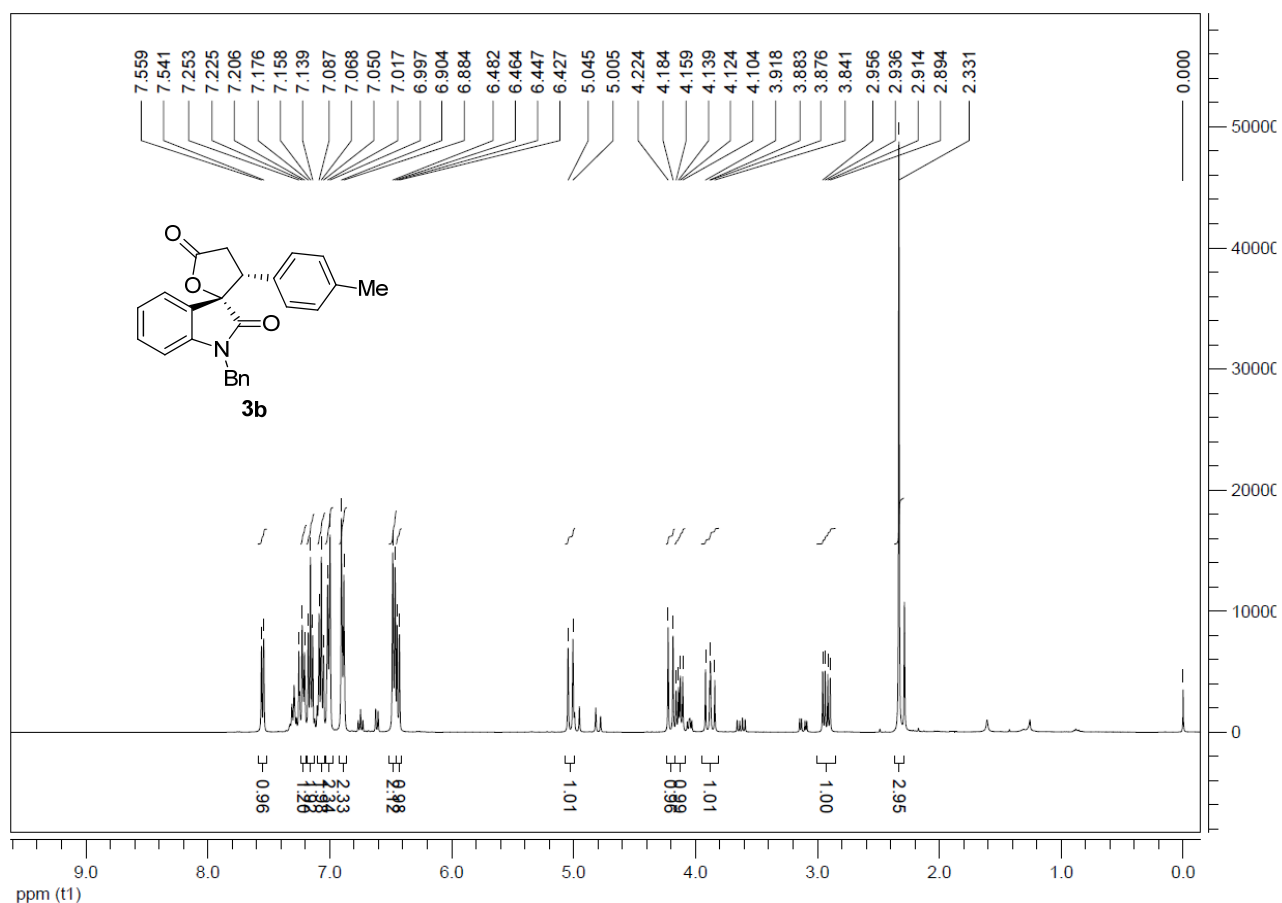
Supporting Information

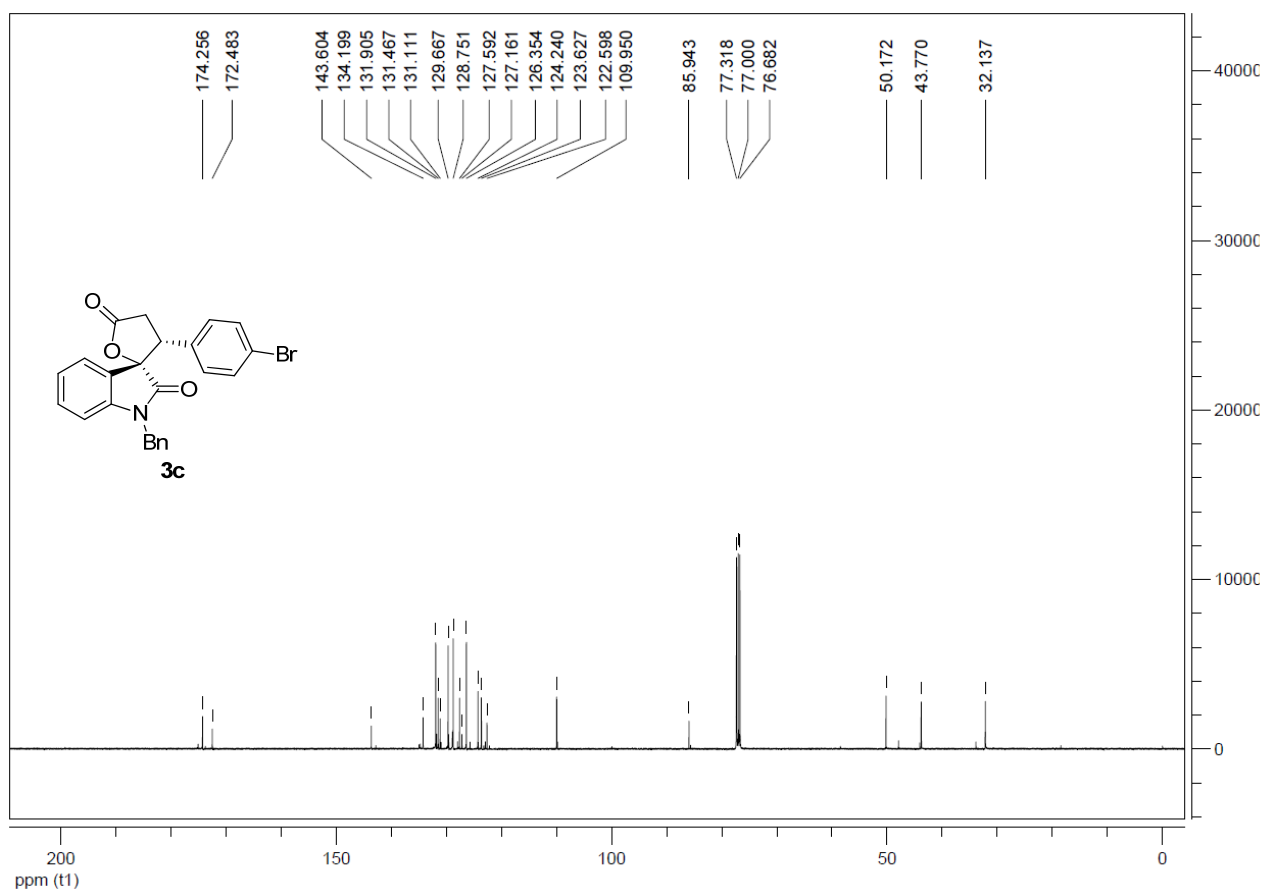
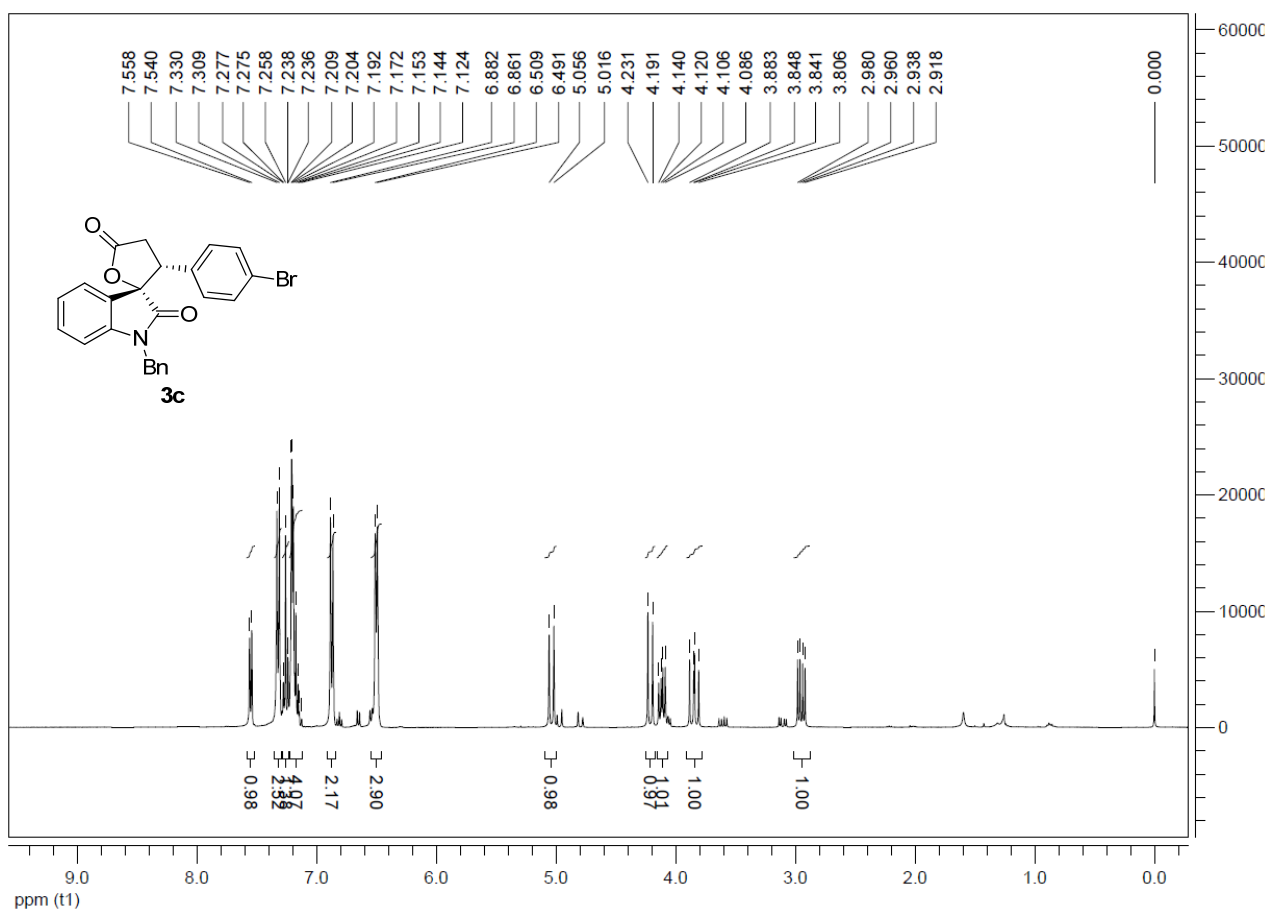
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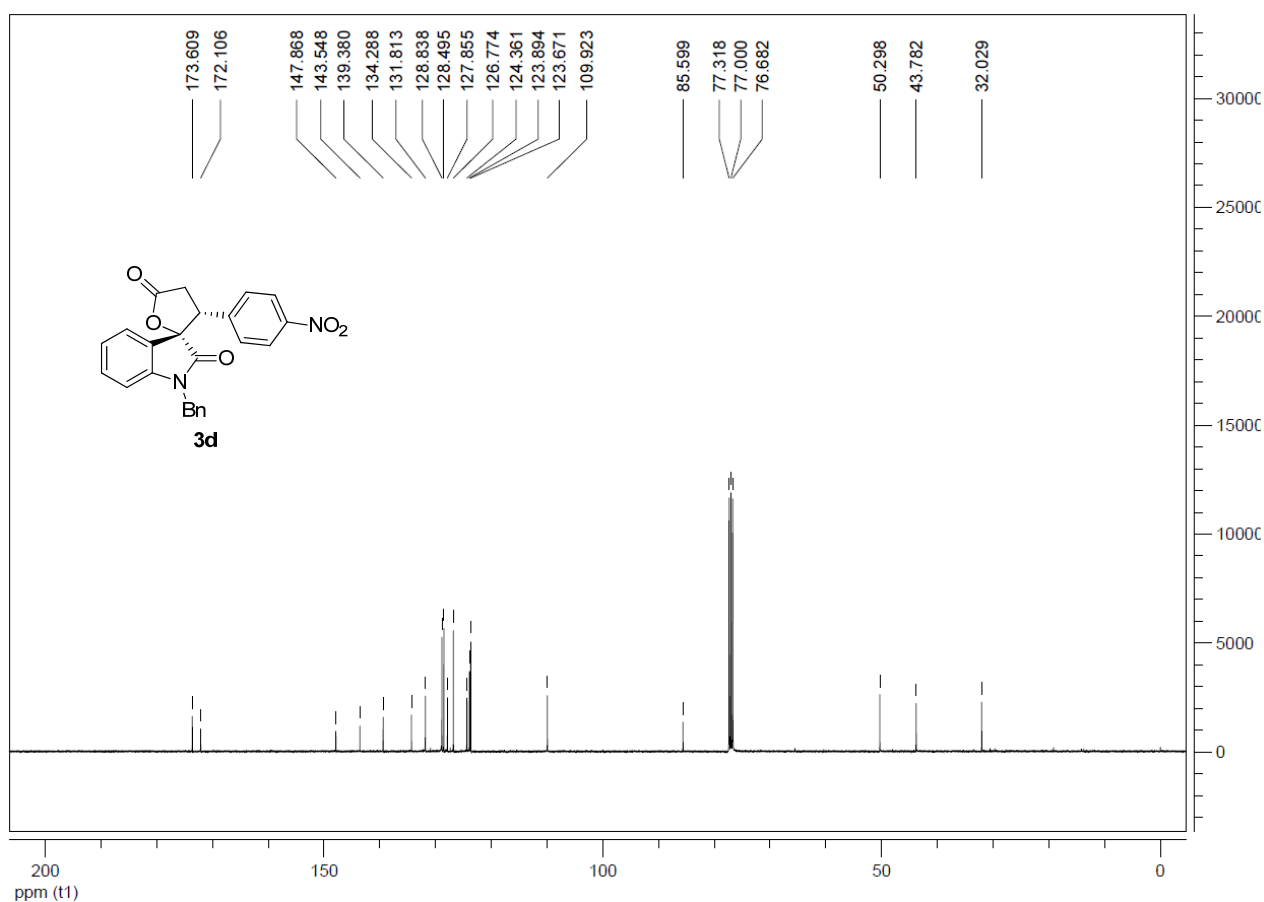
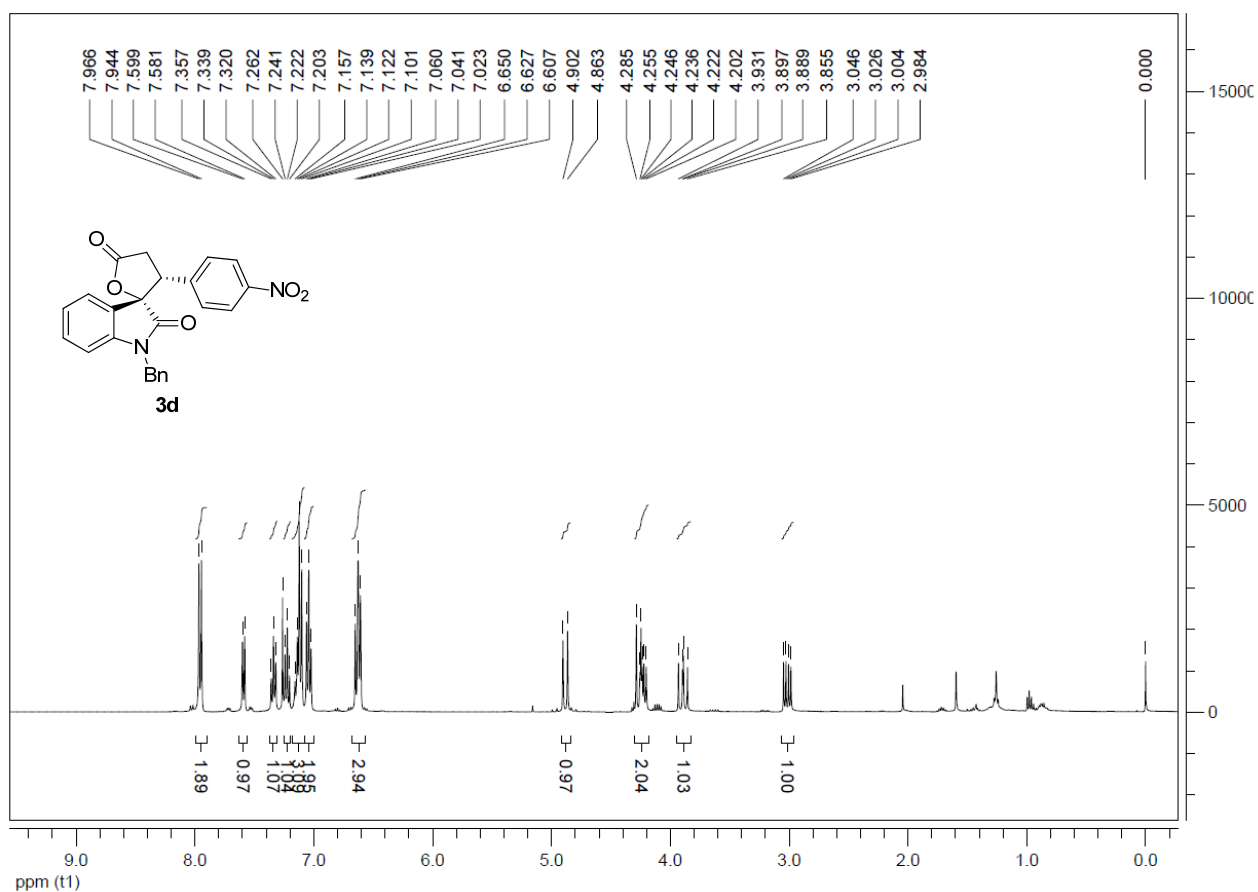
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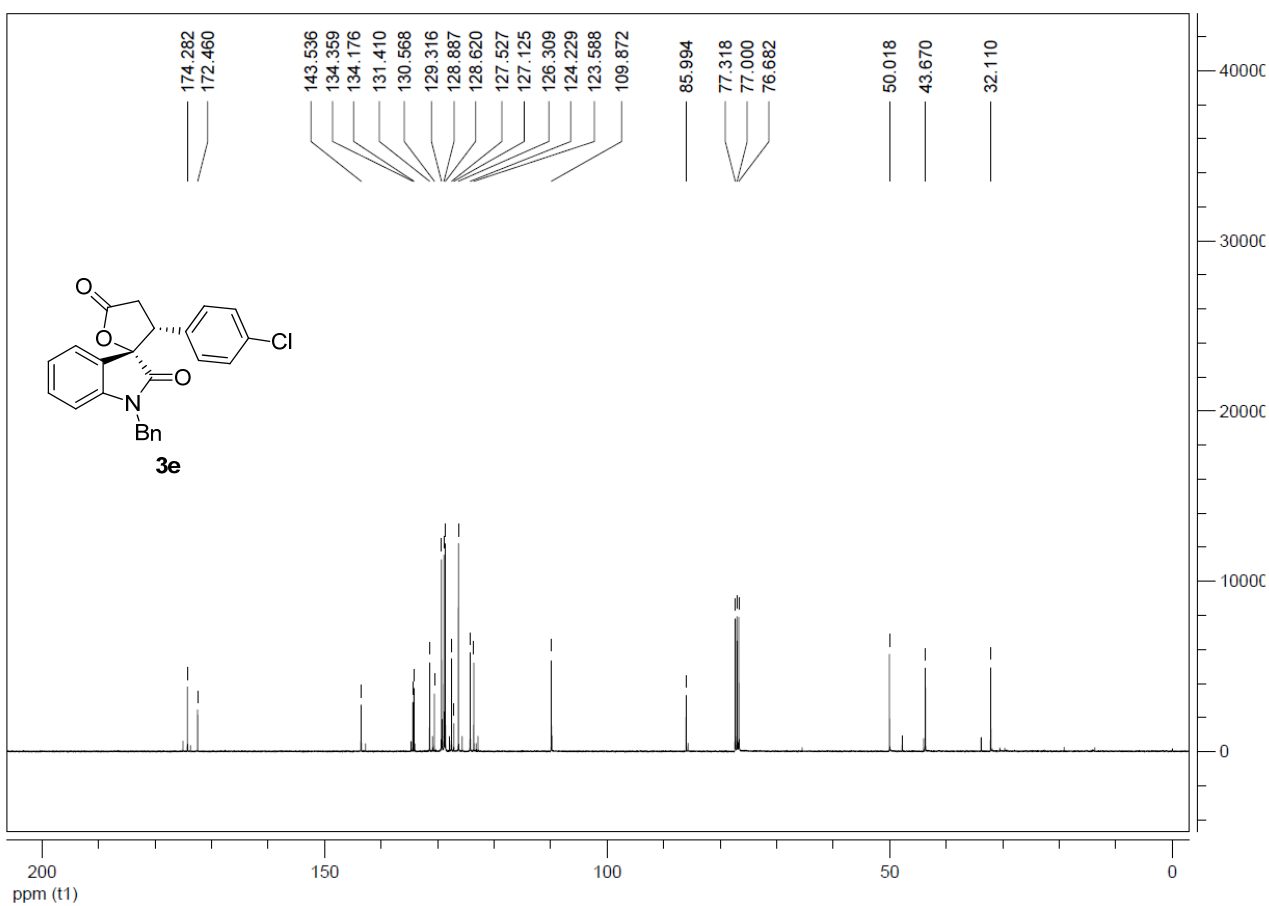
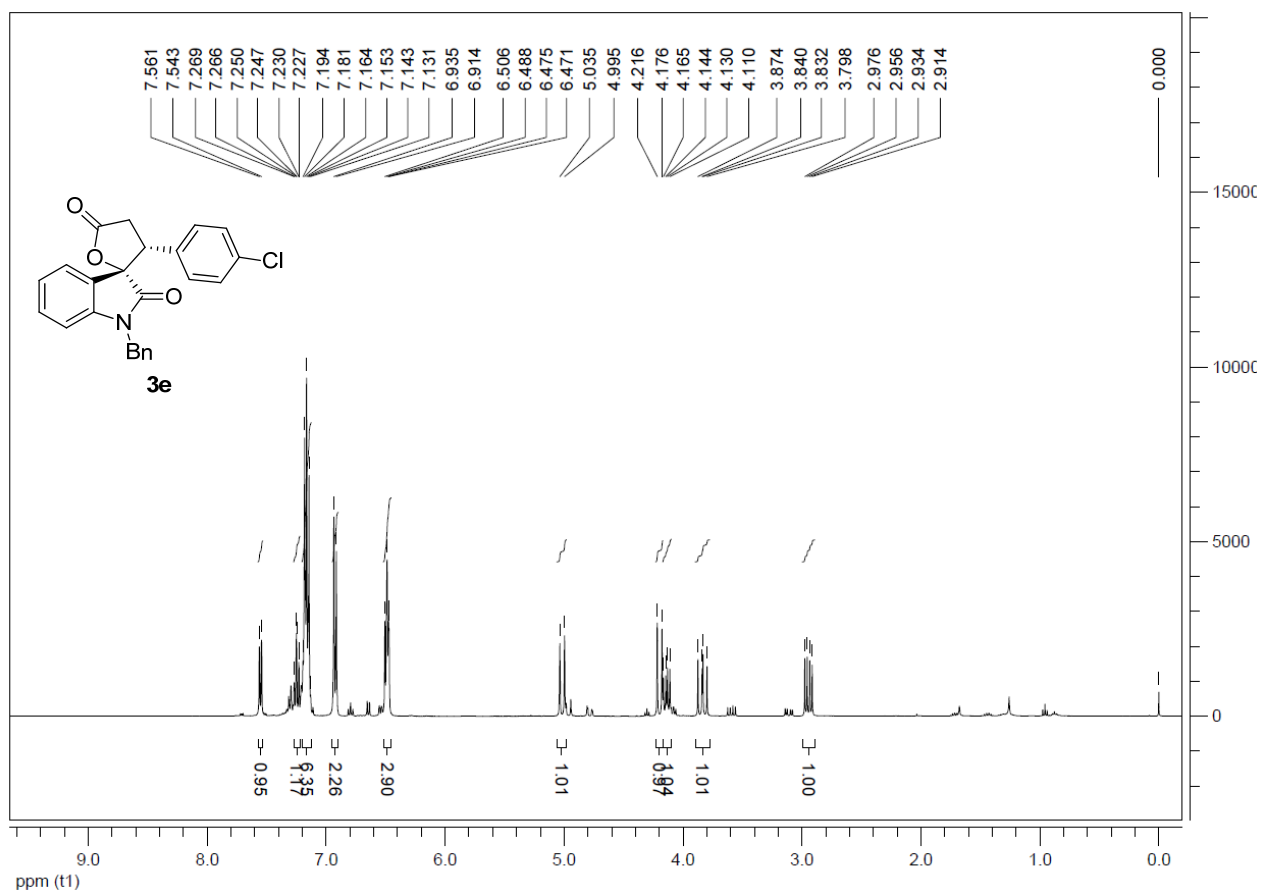
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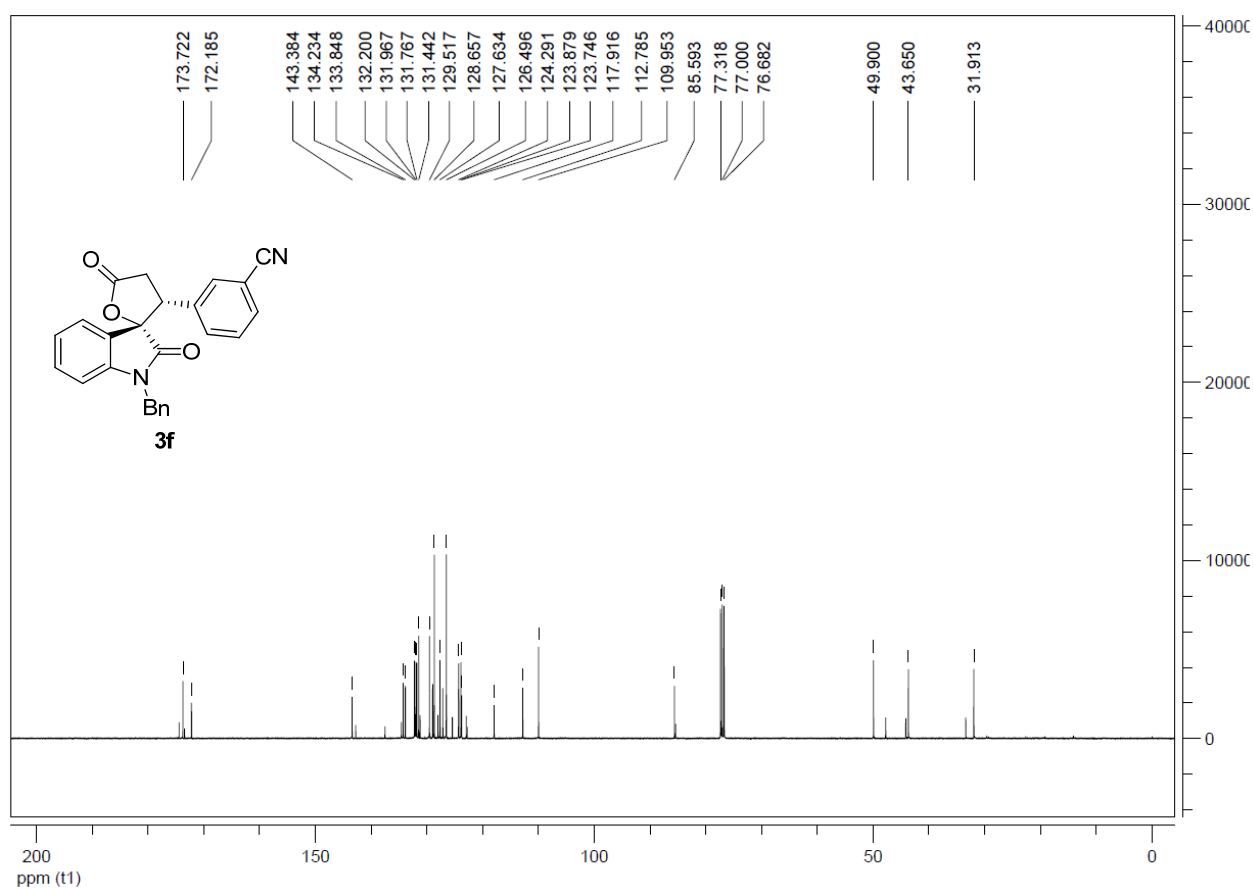
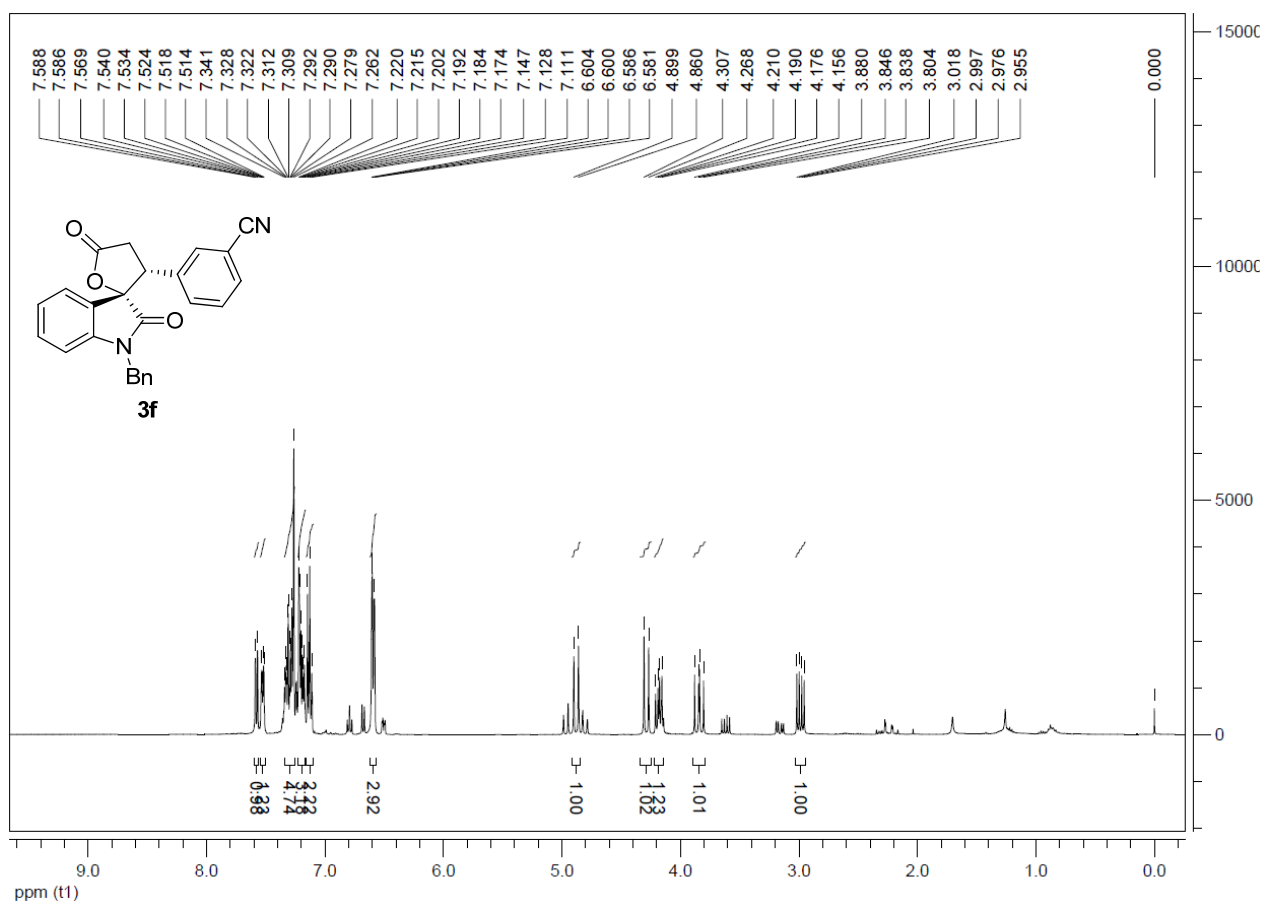


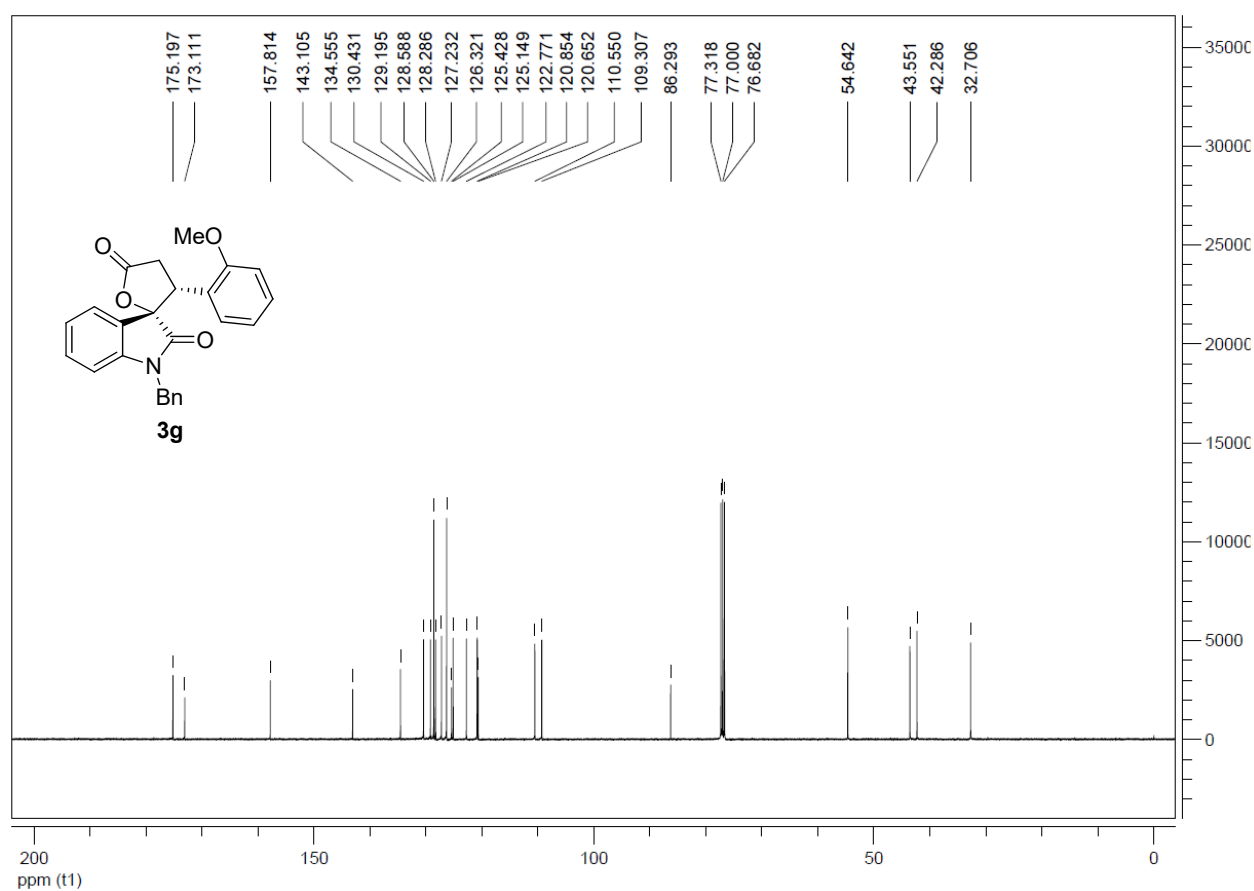
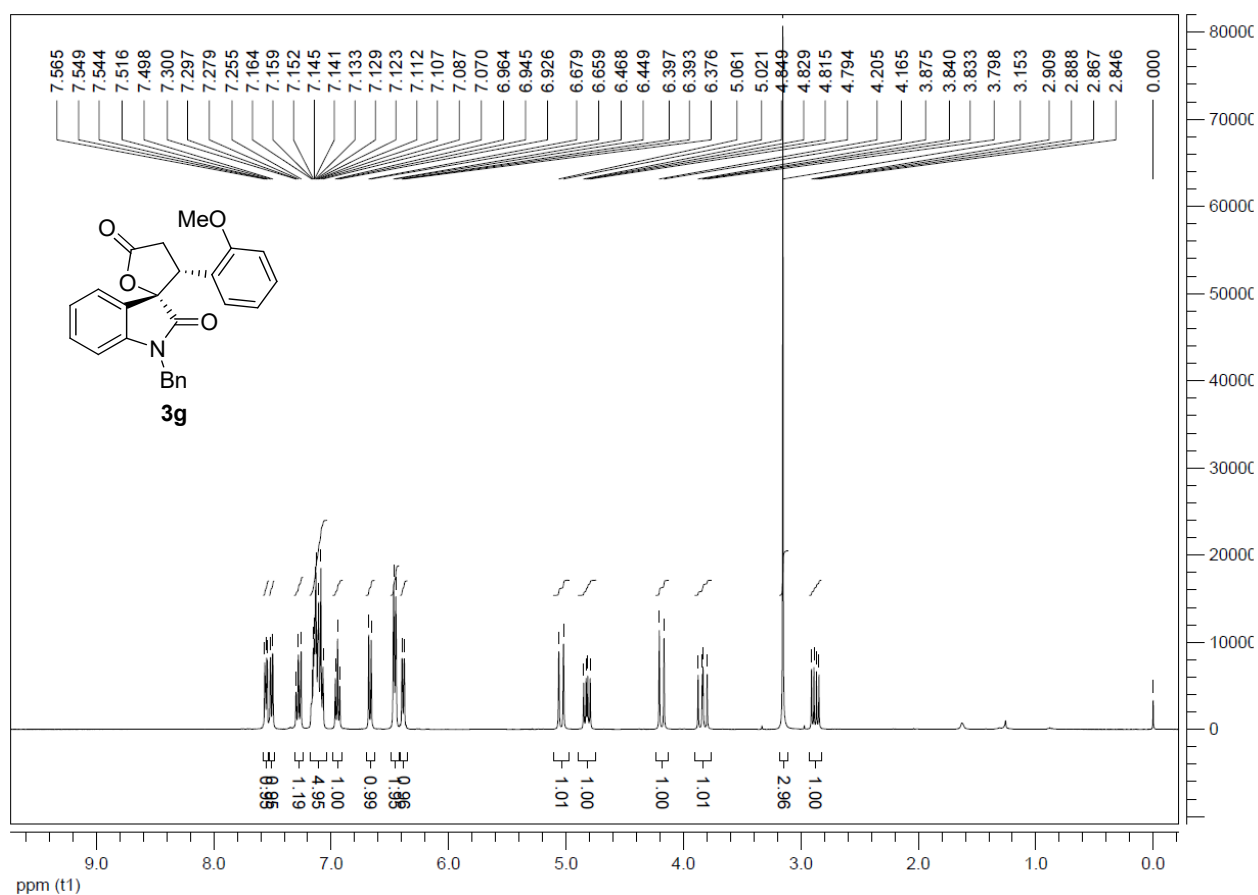


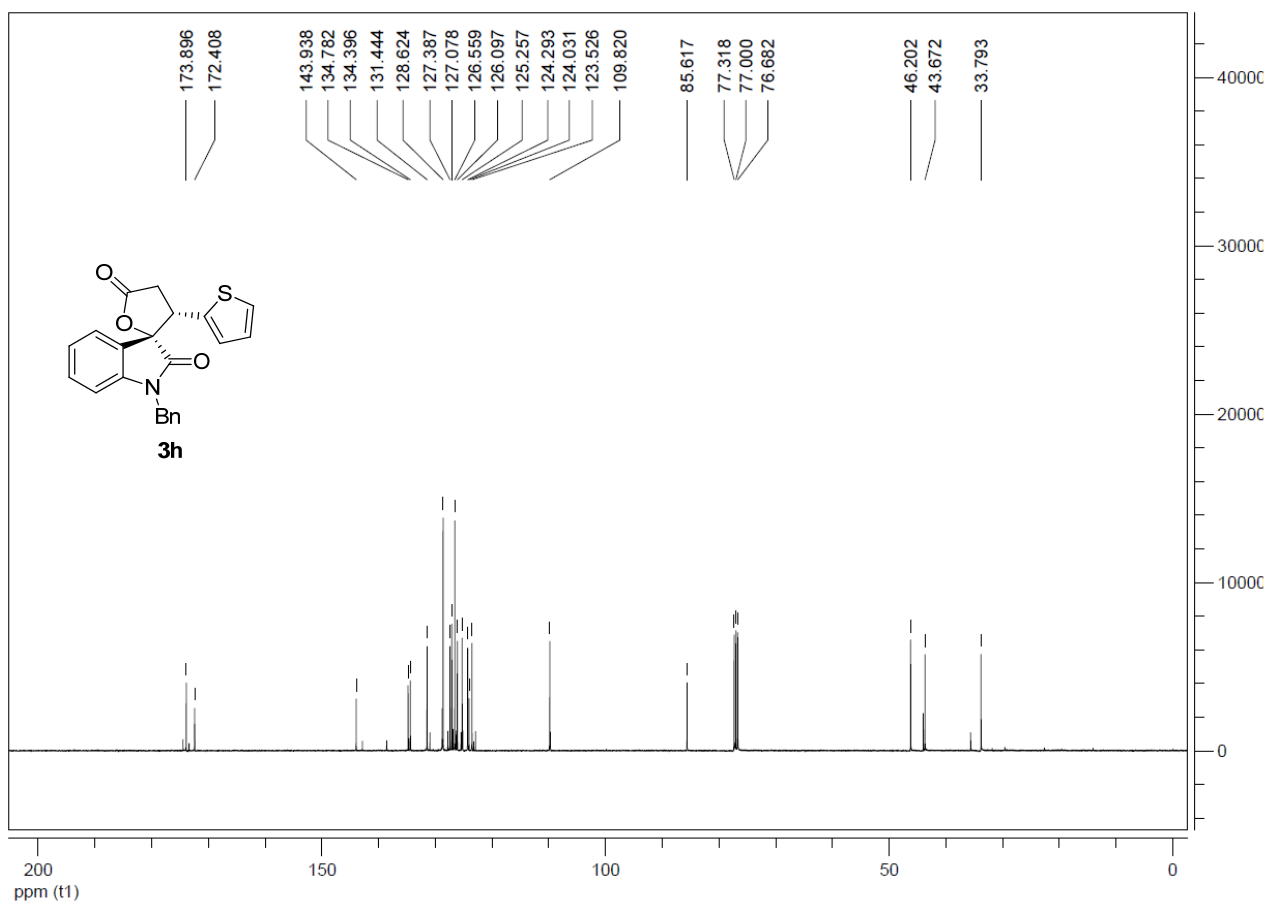
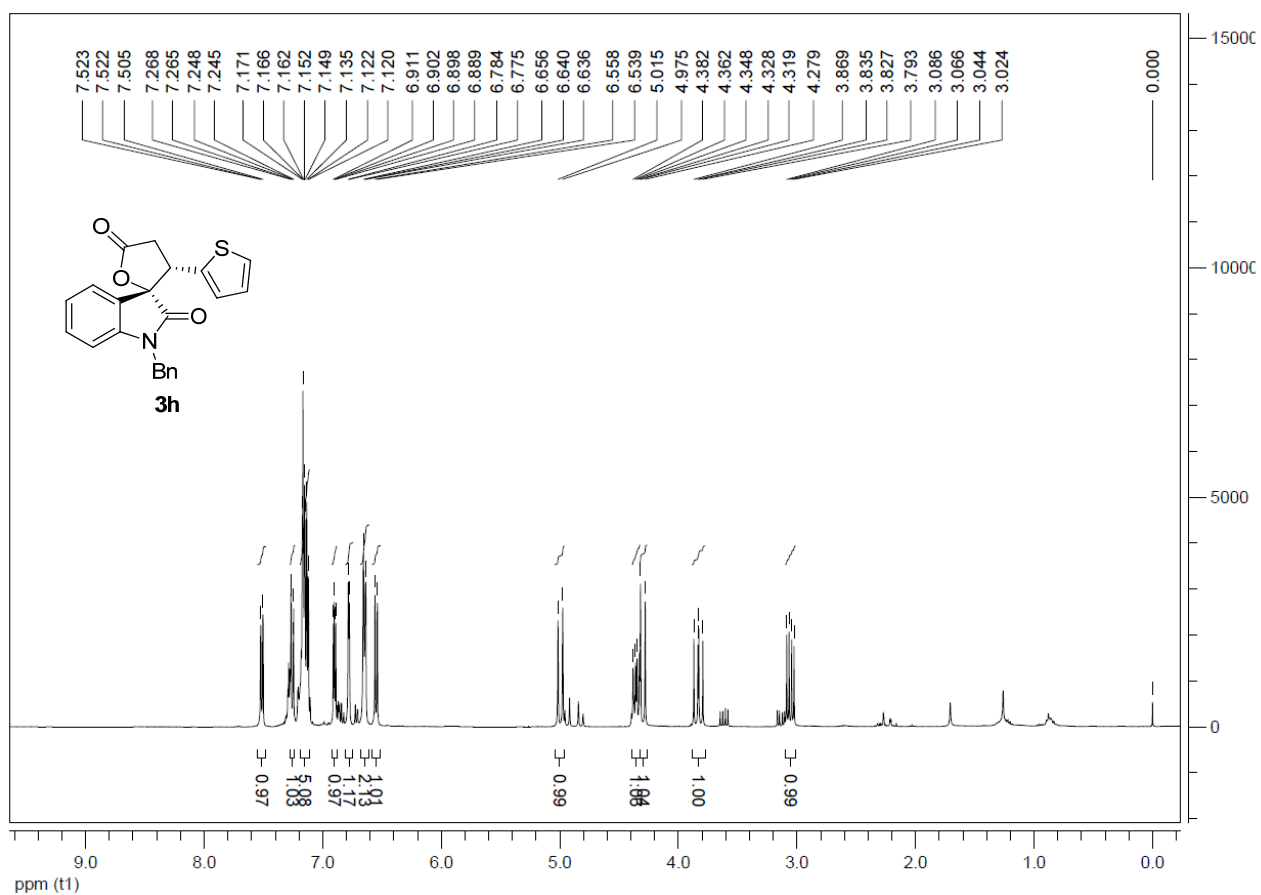


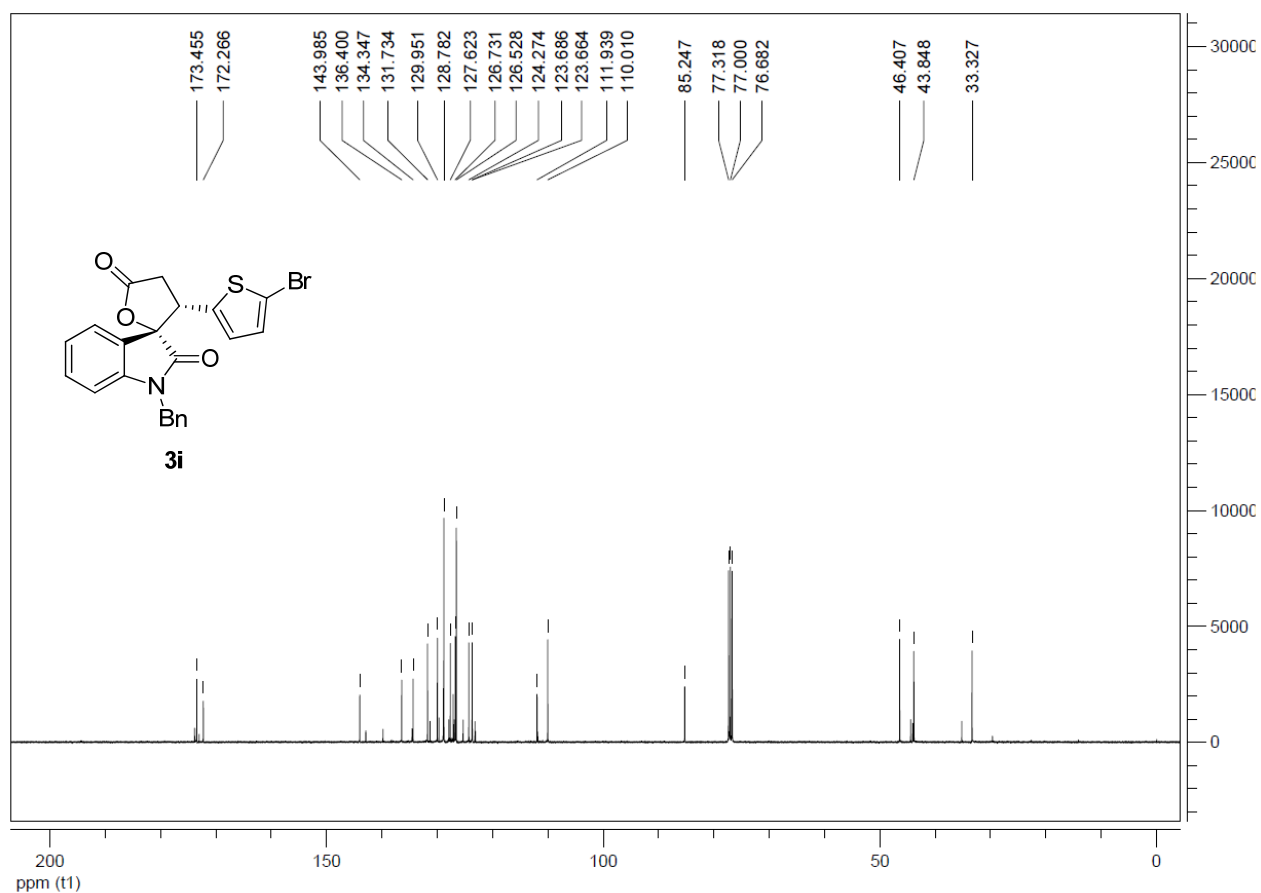
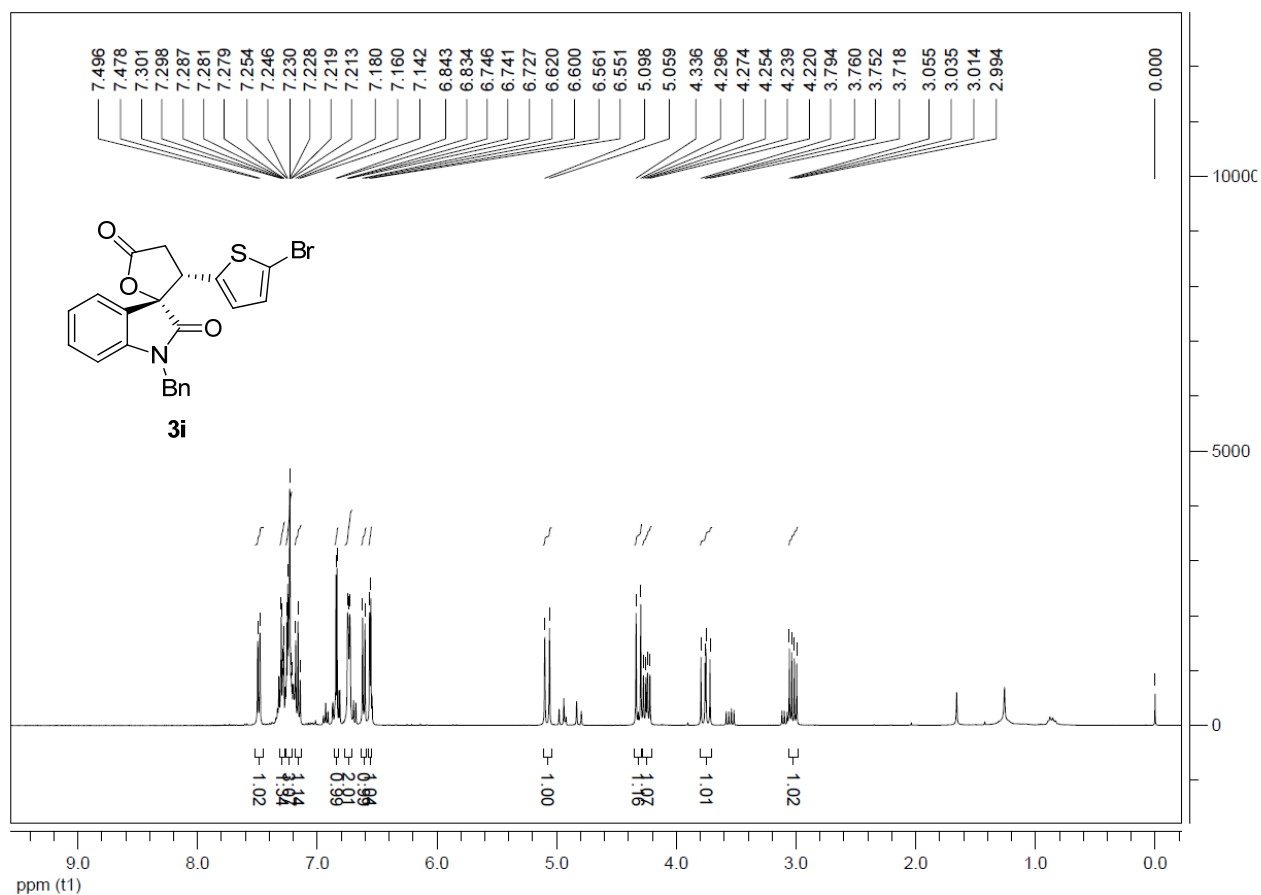


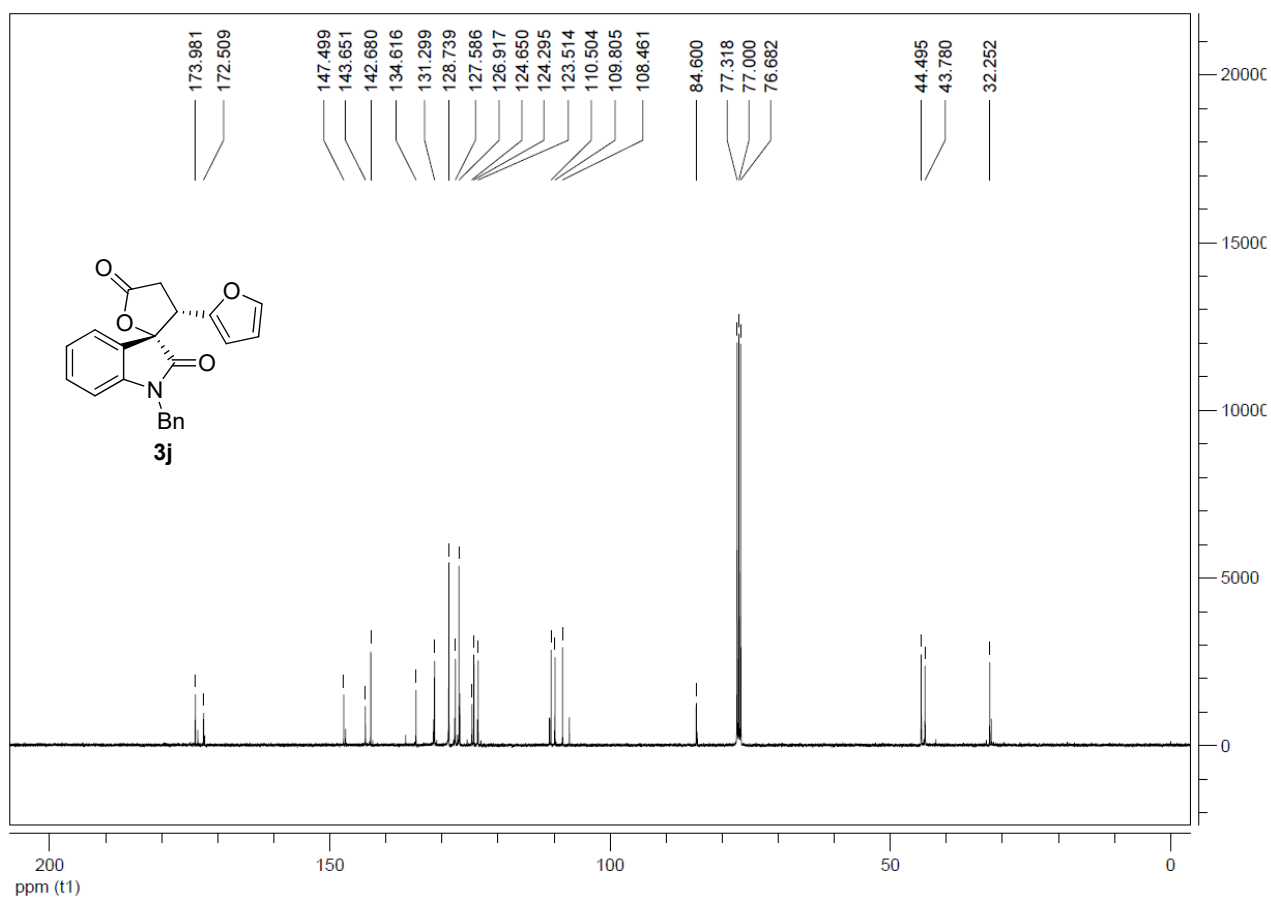
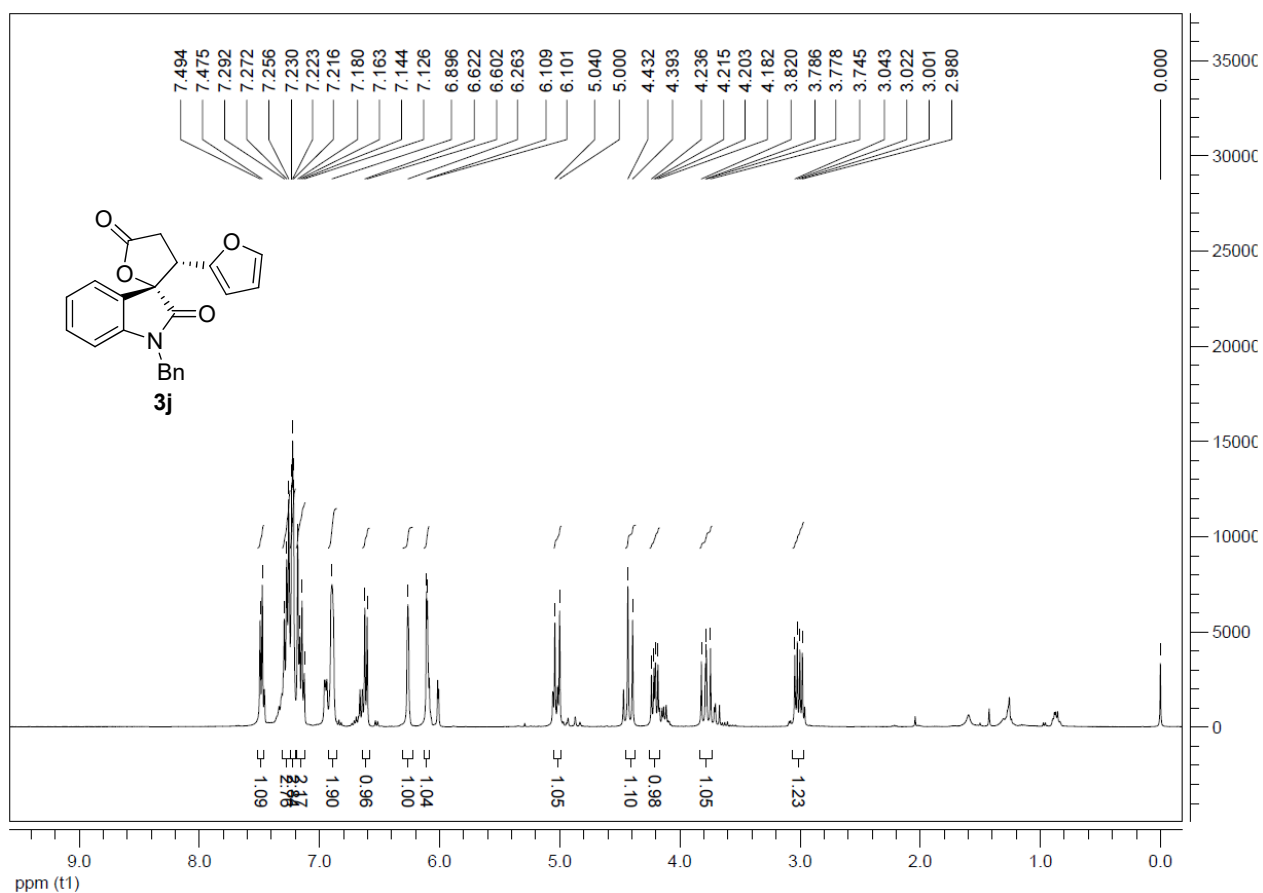


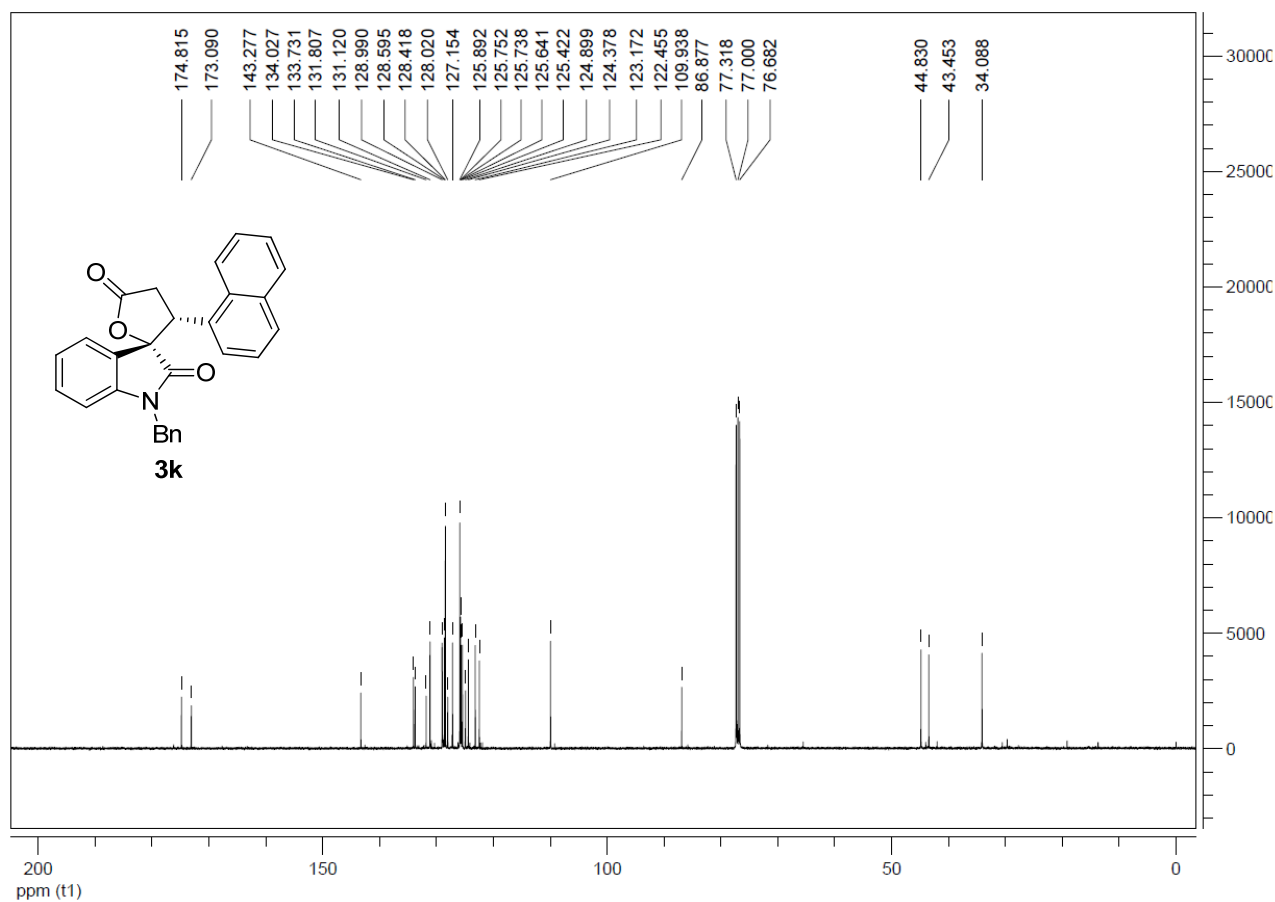
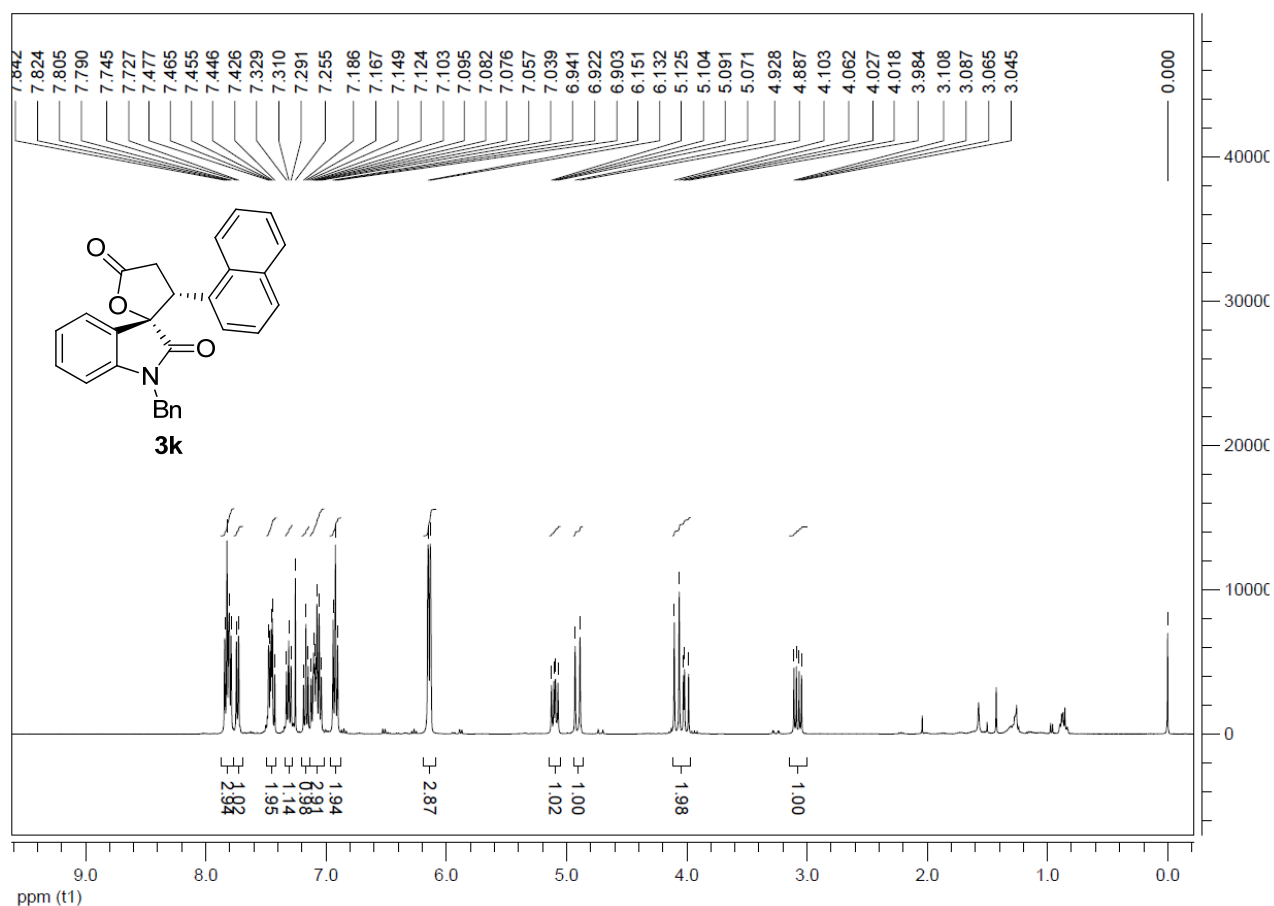


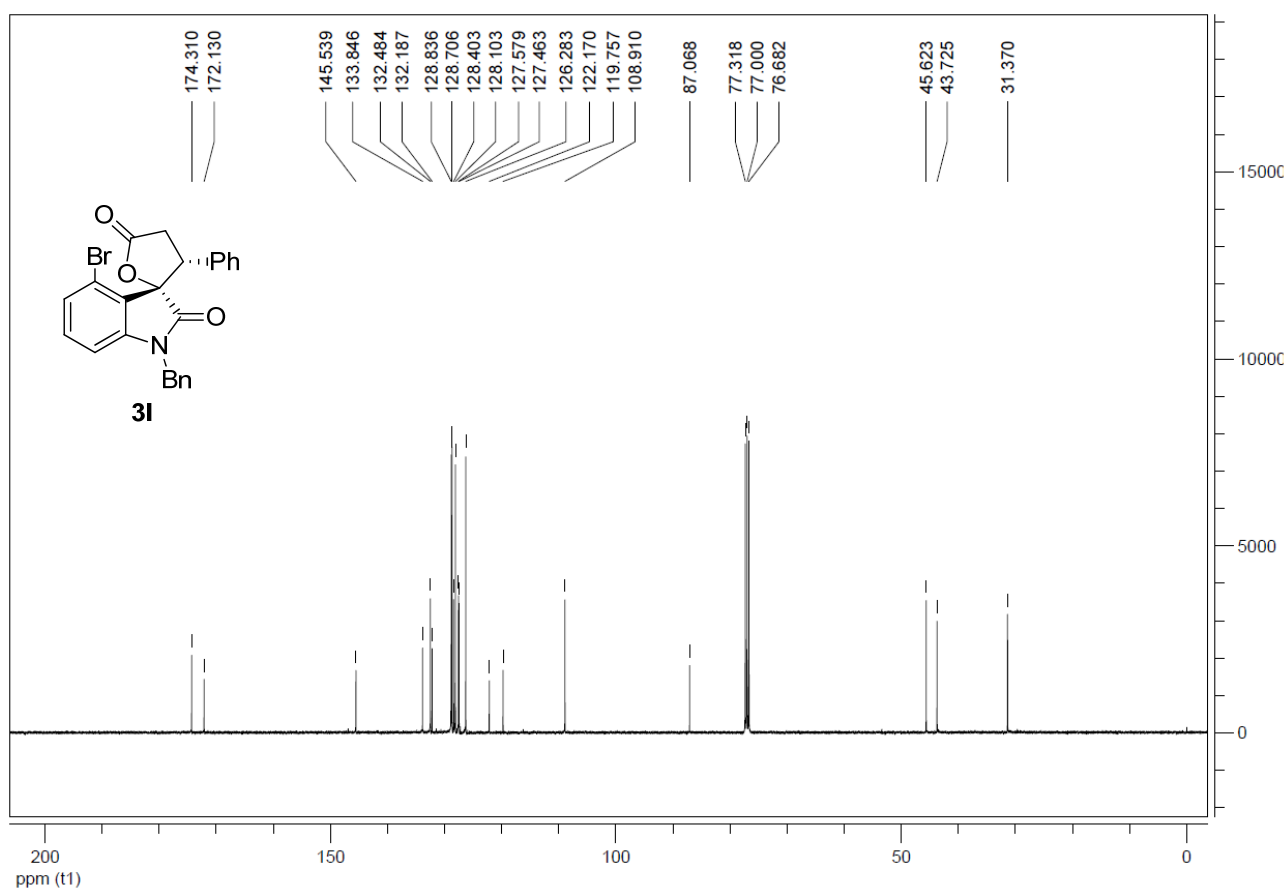
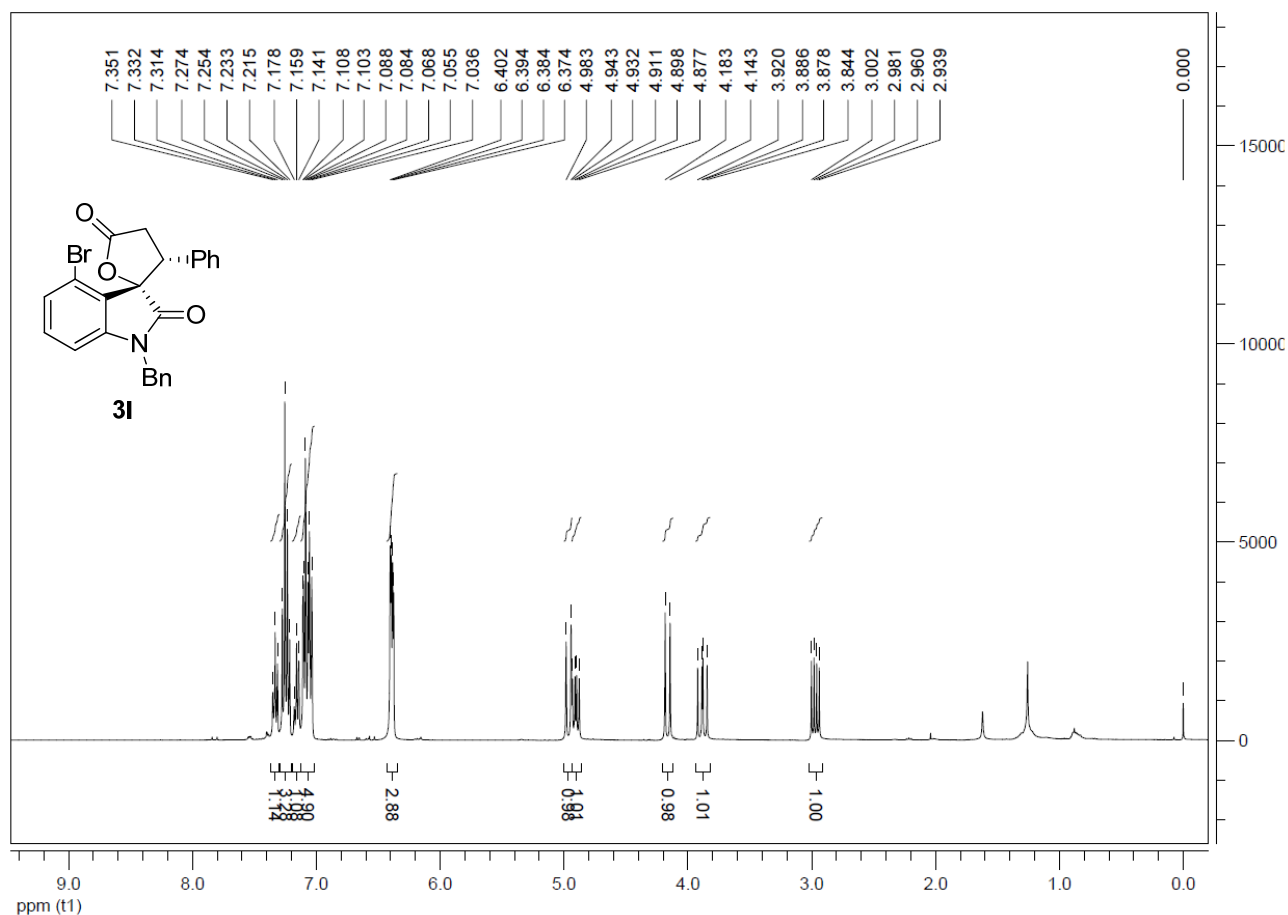


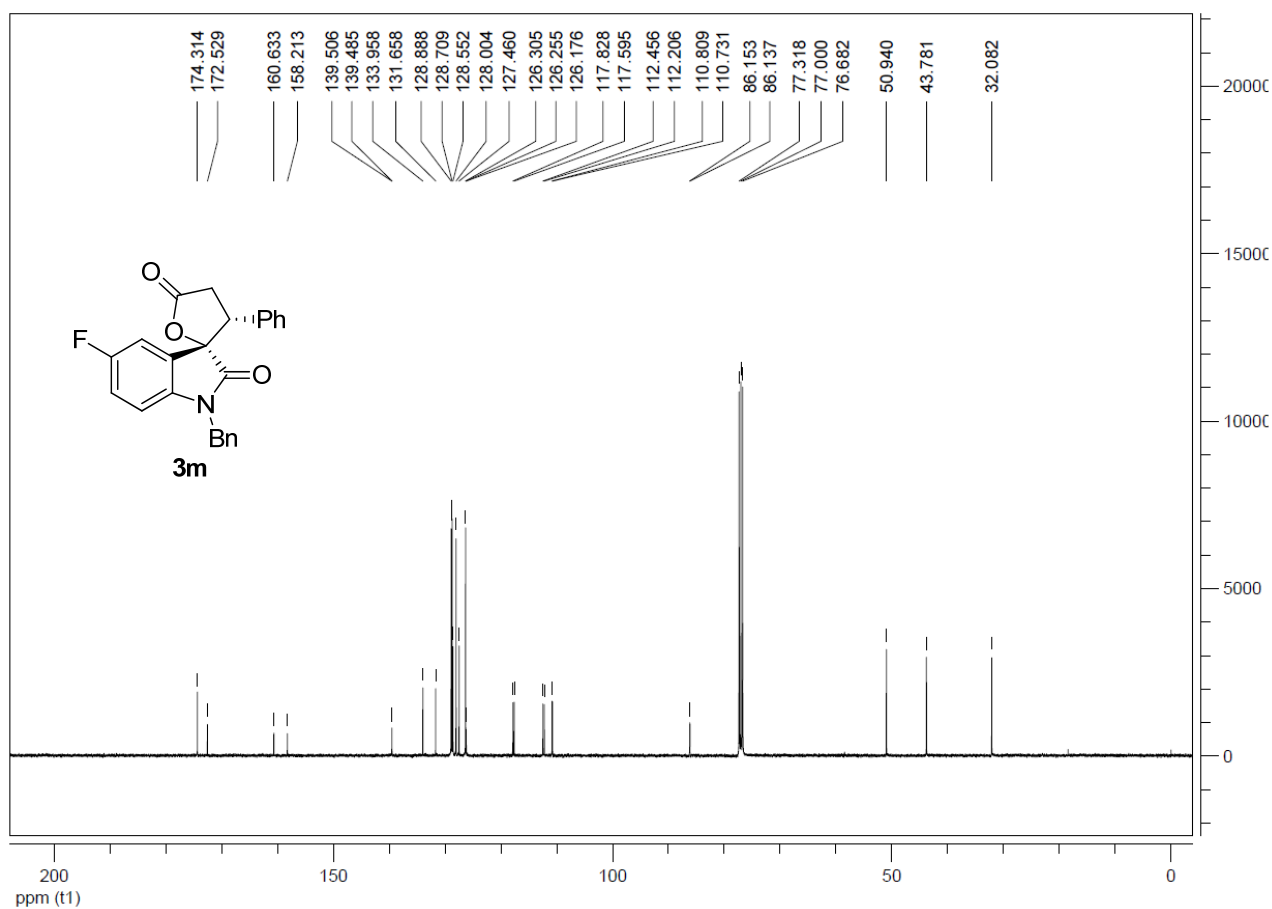
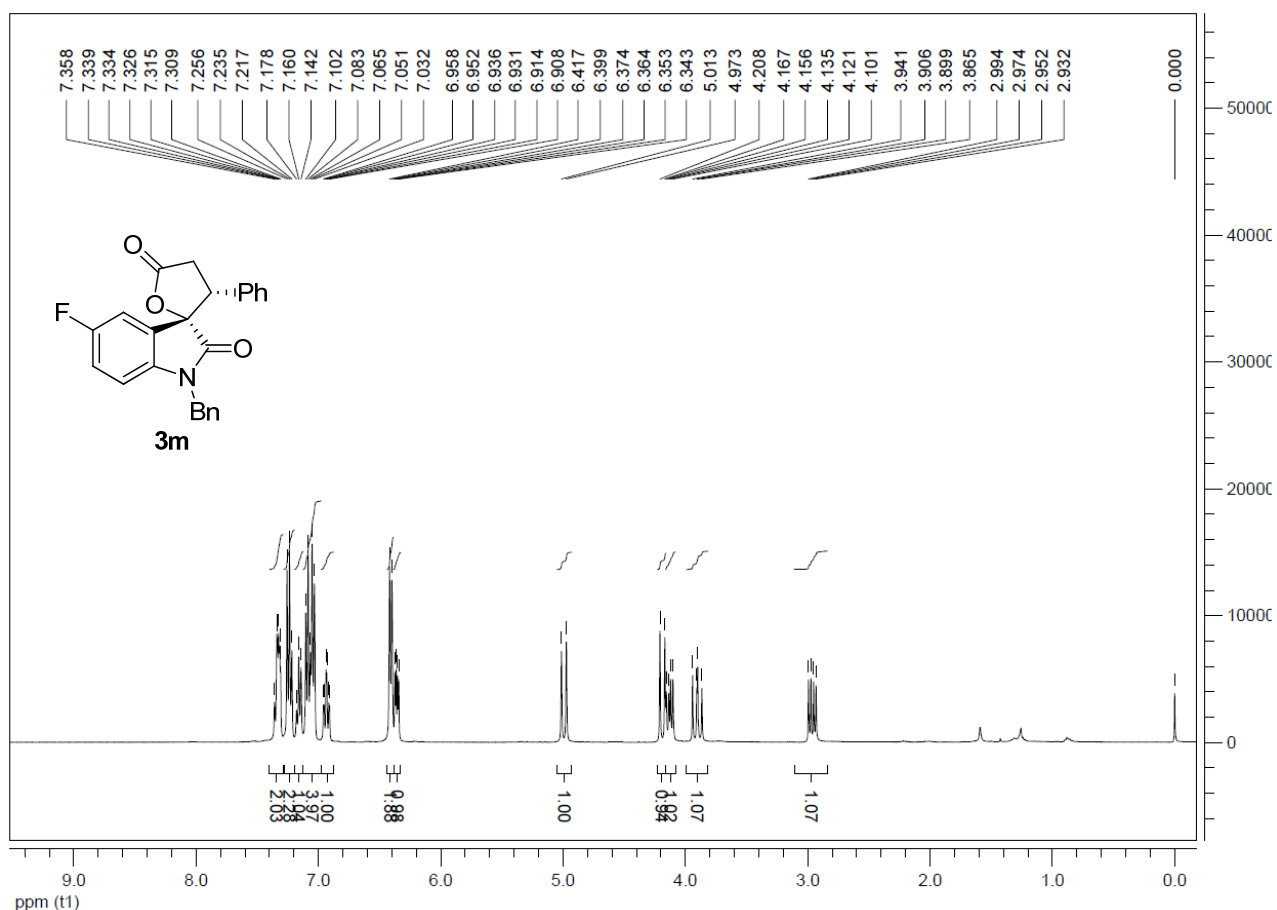


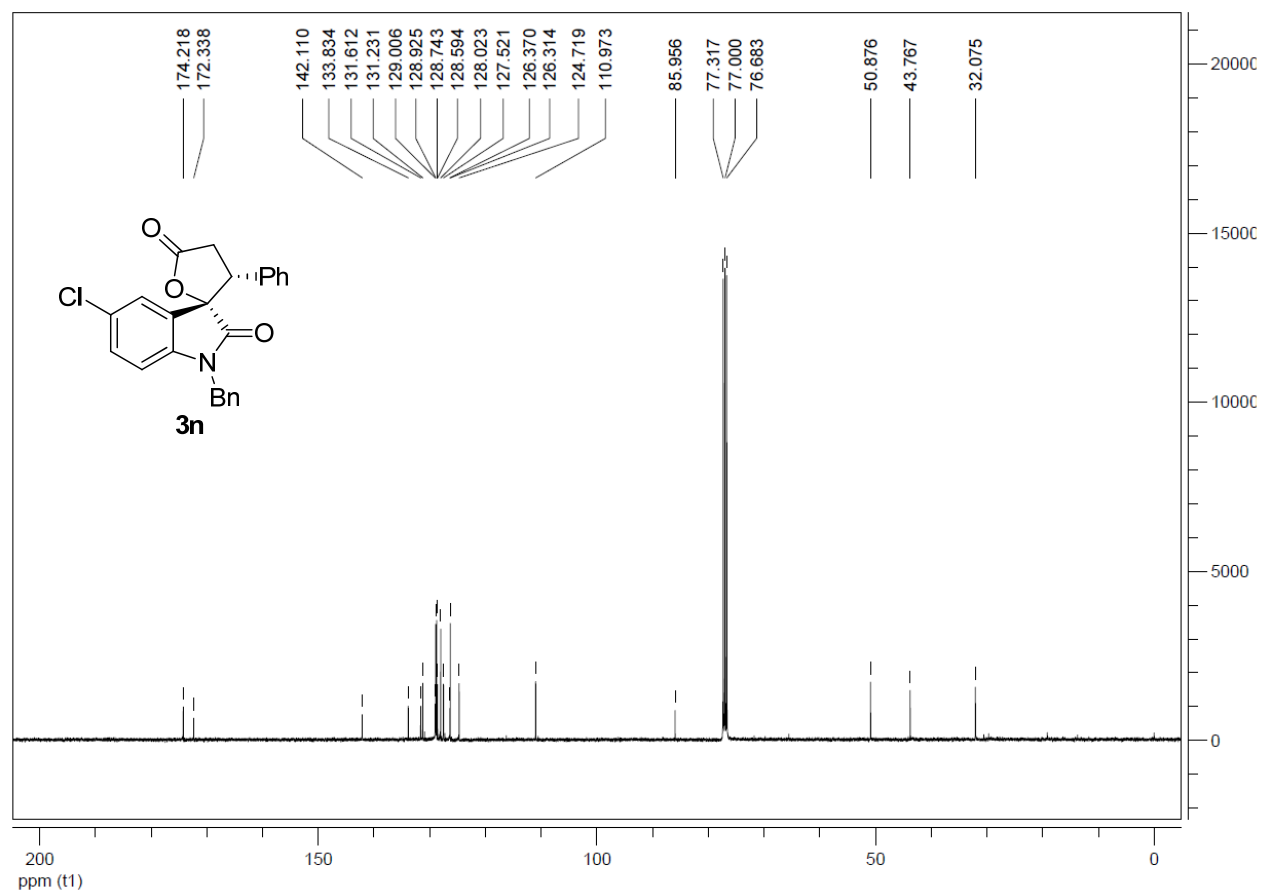
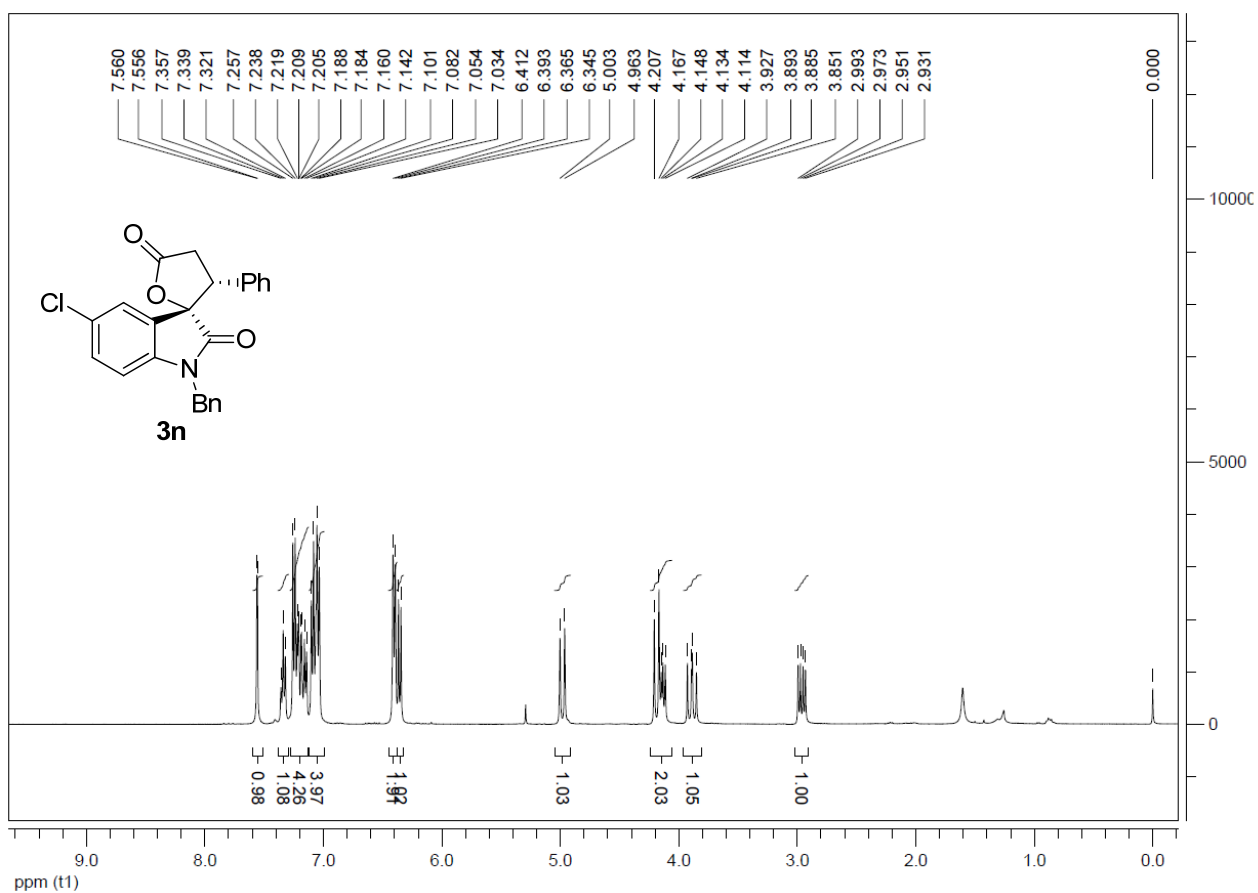


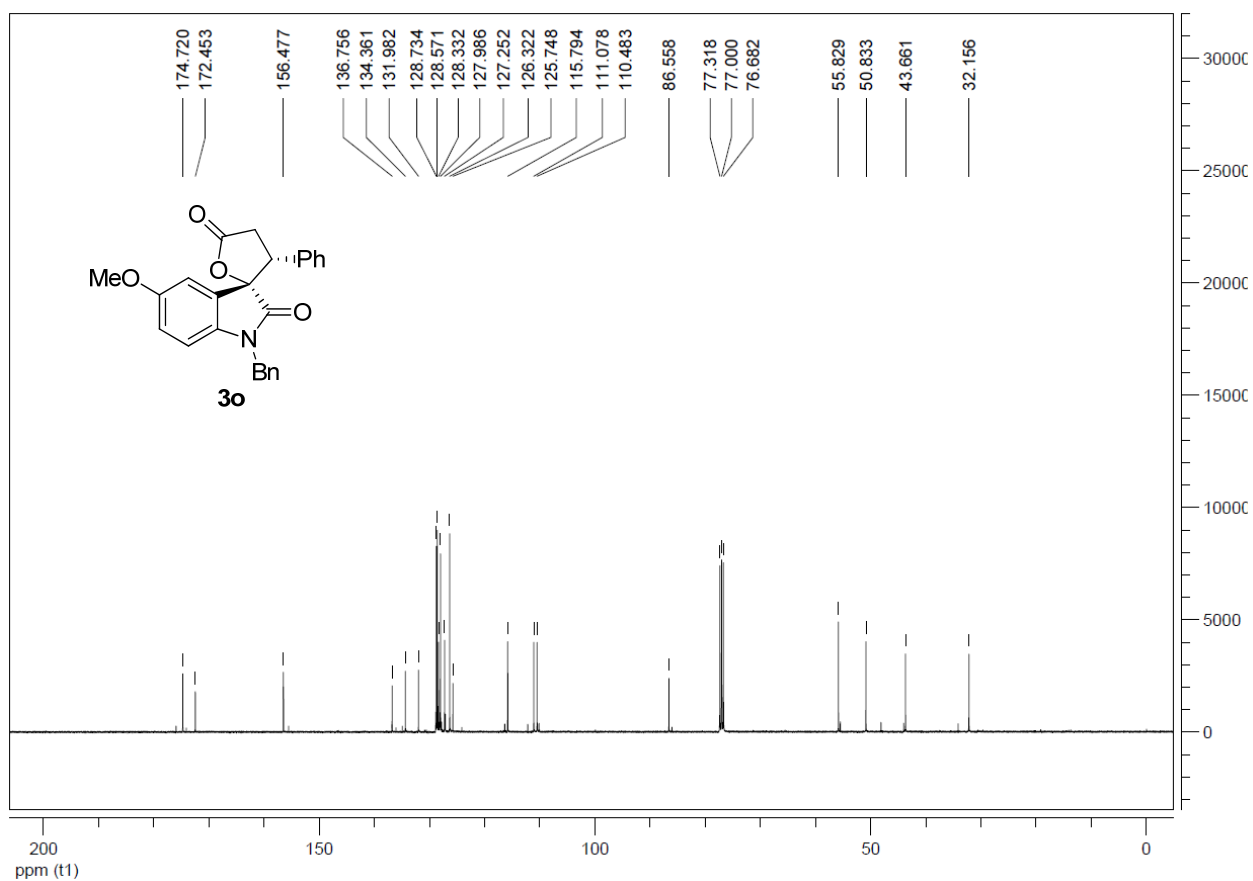
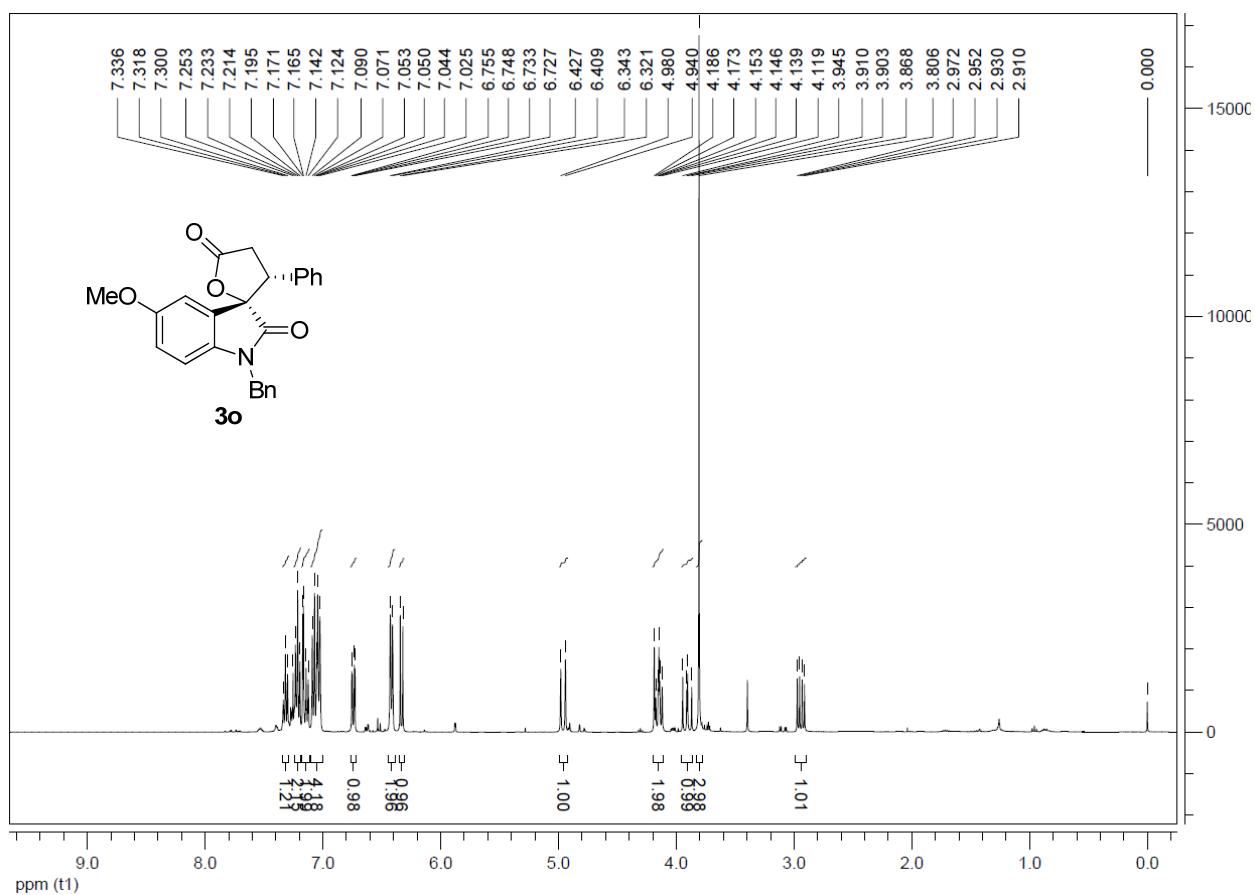


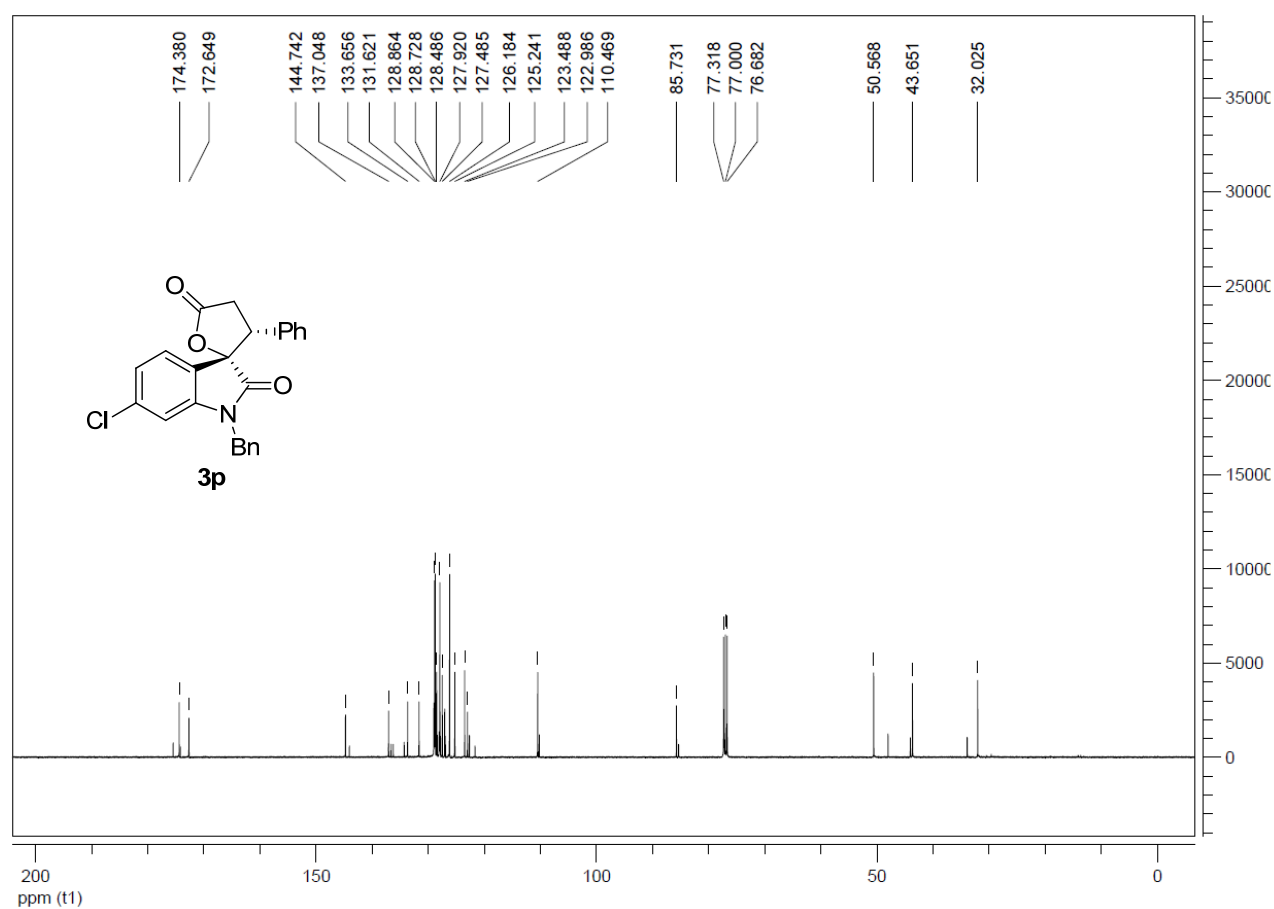
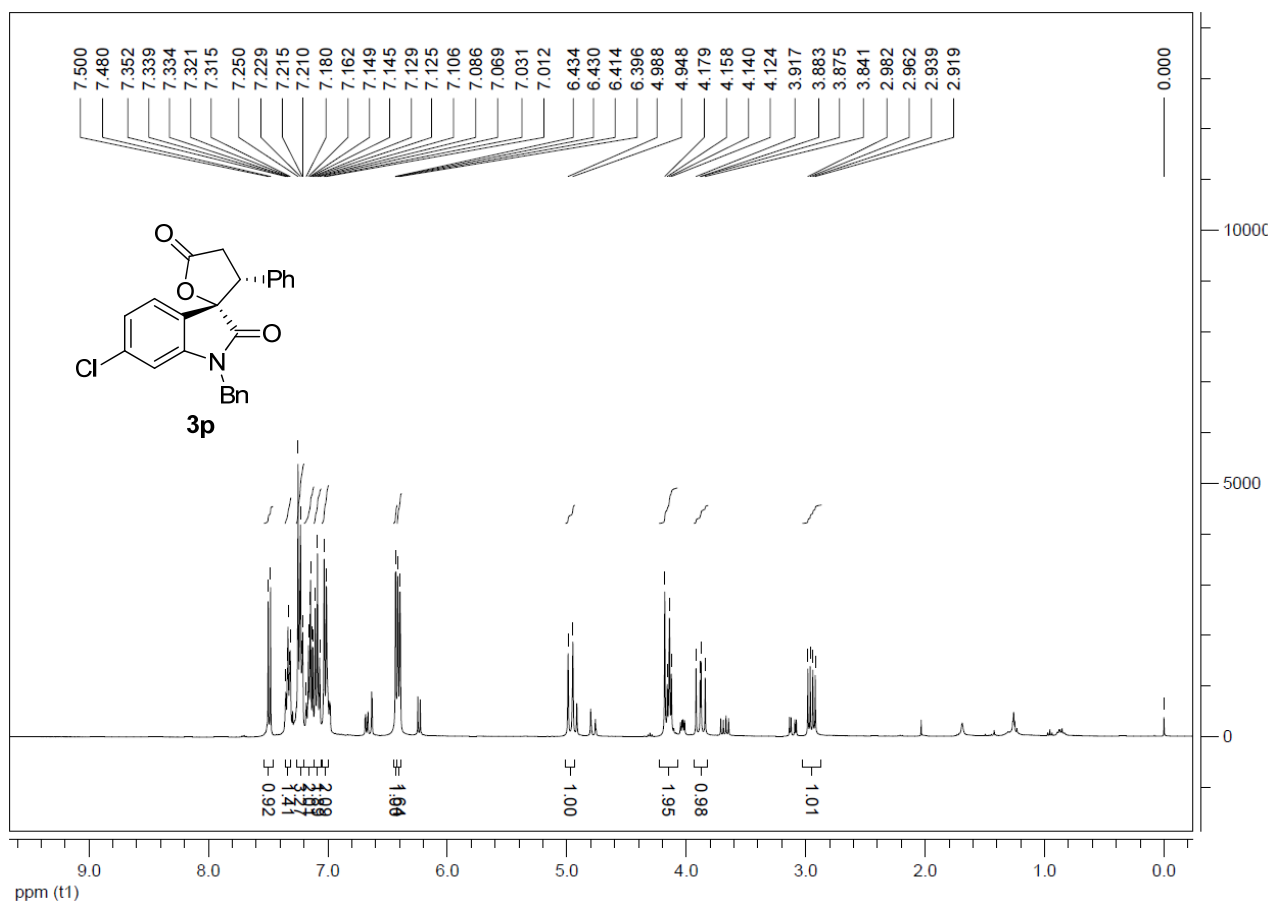


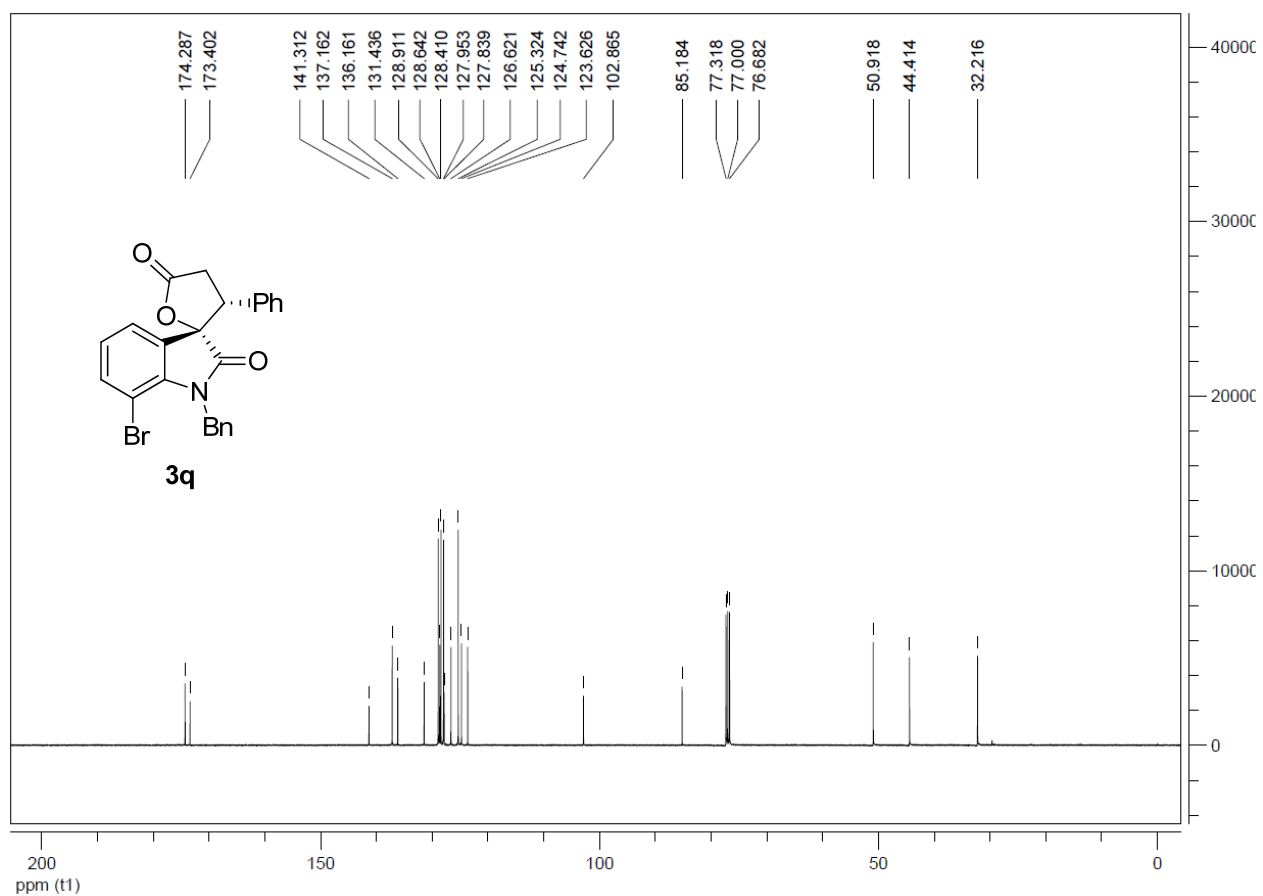
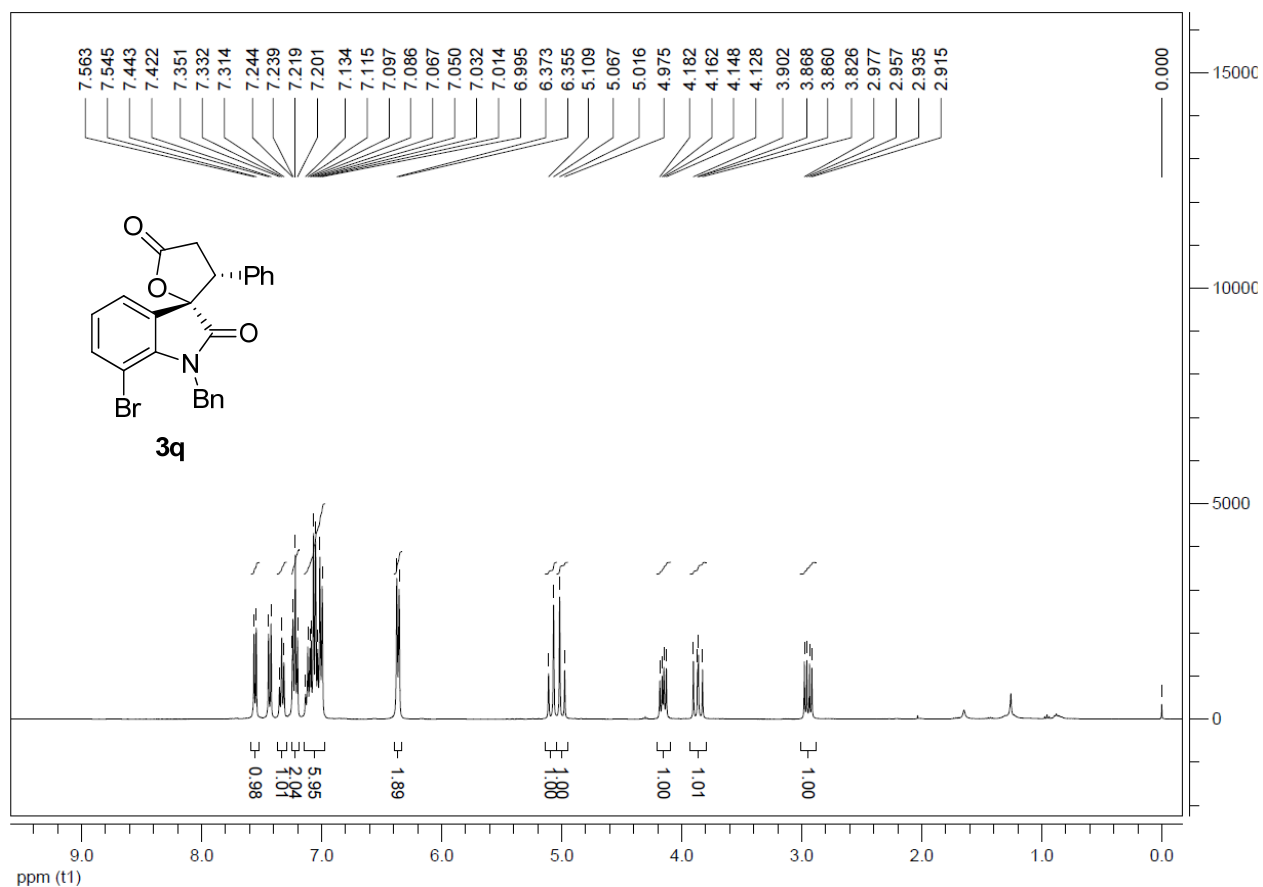


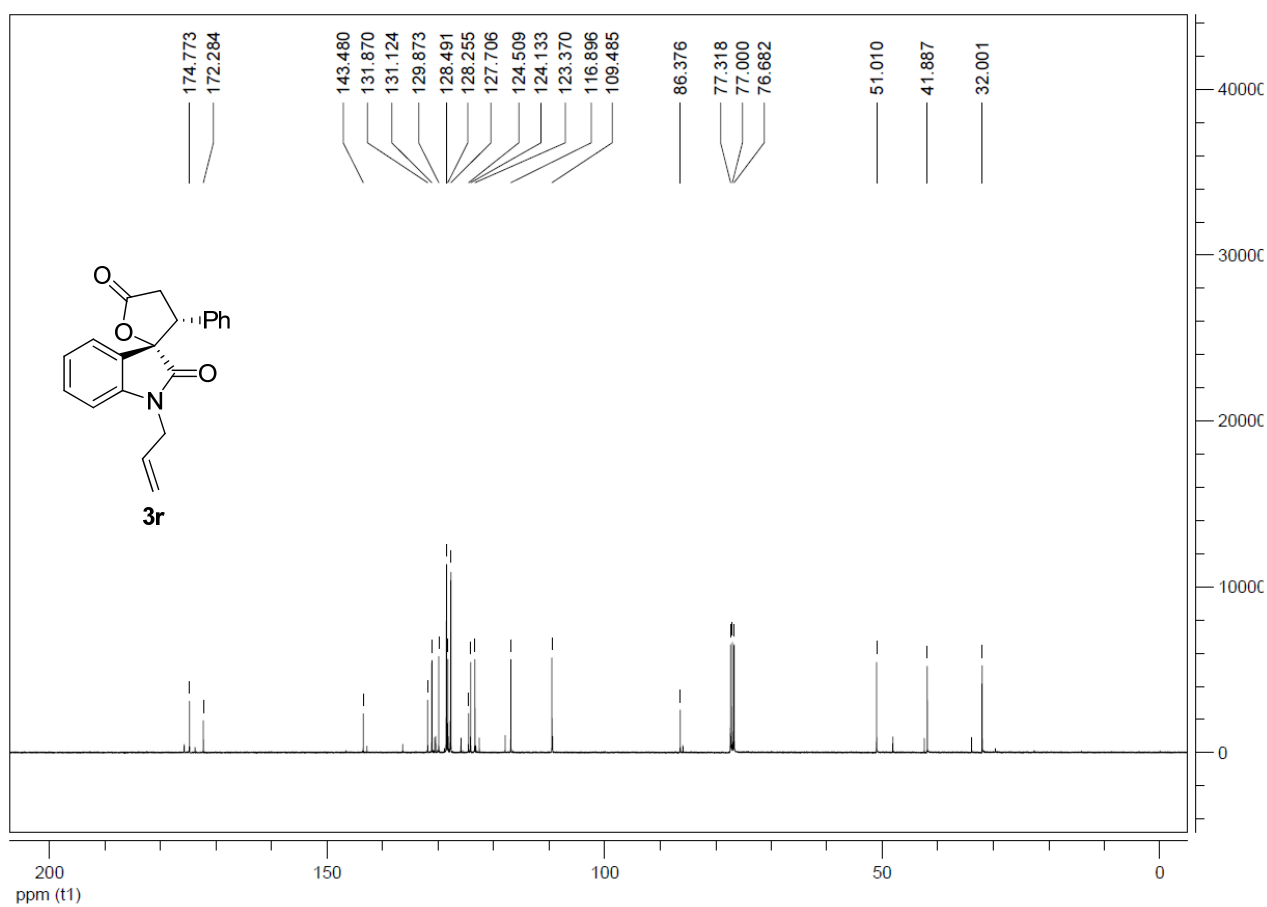
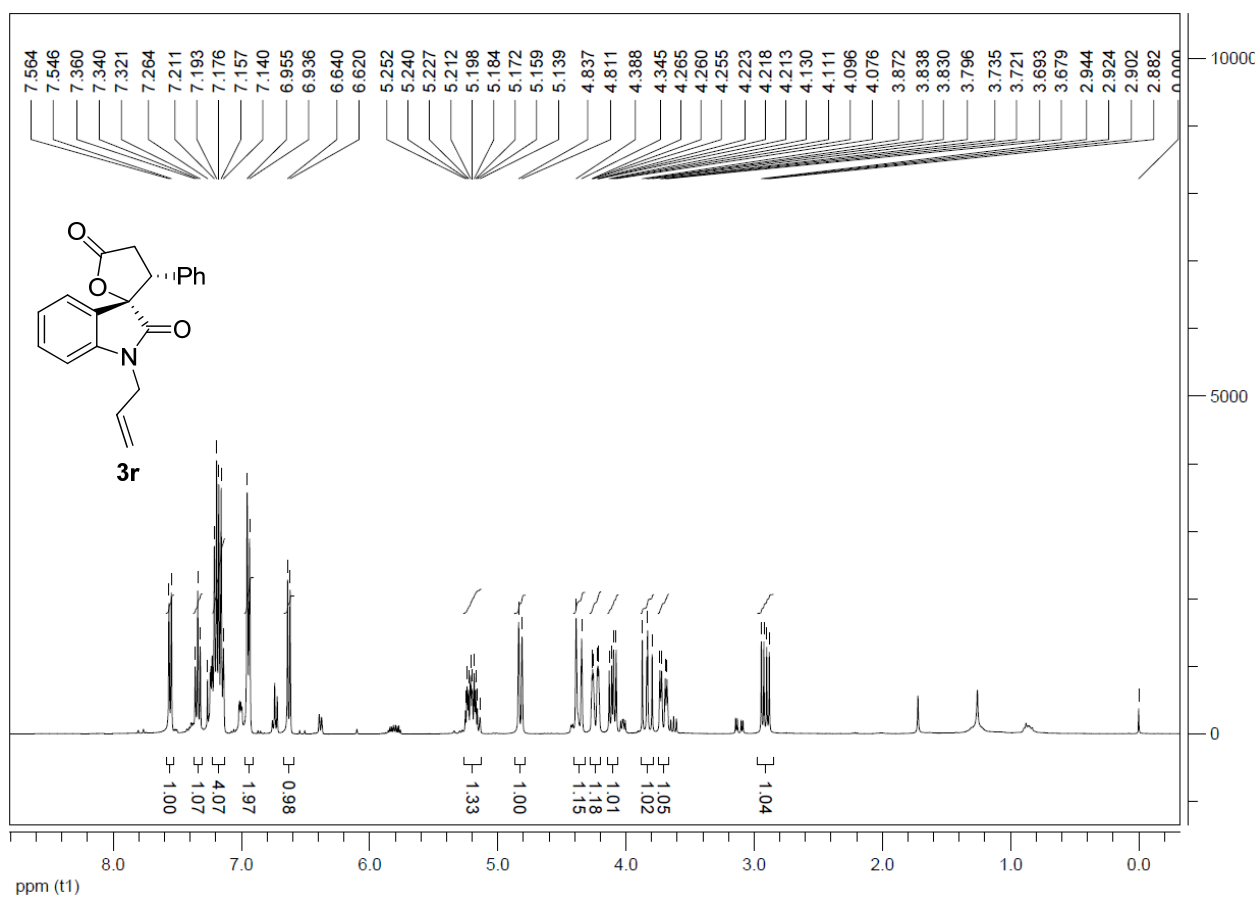




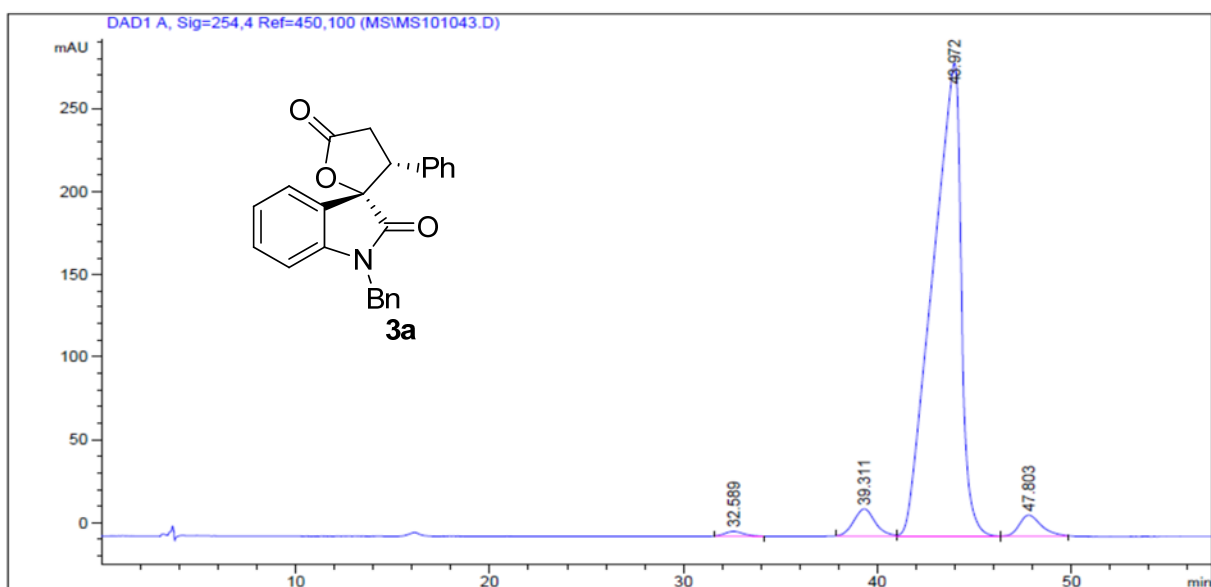
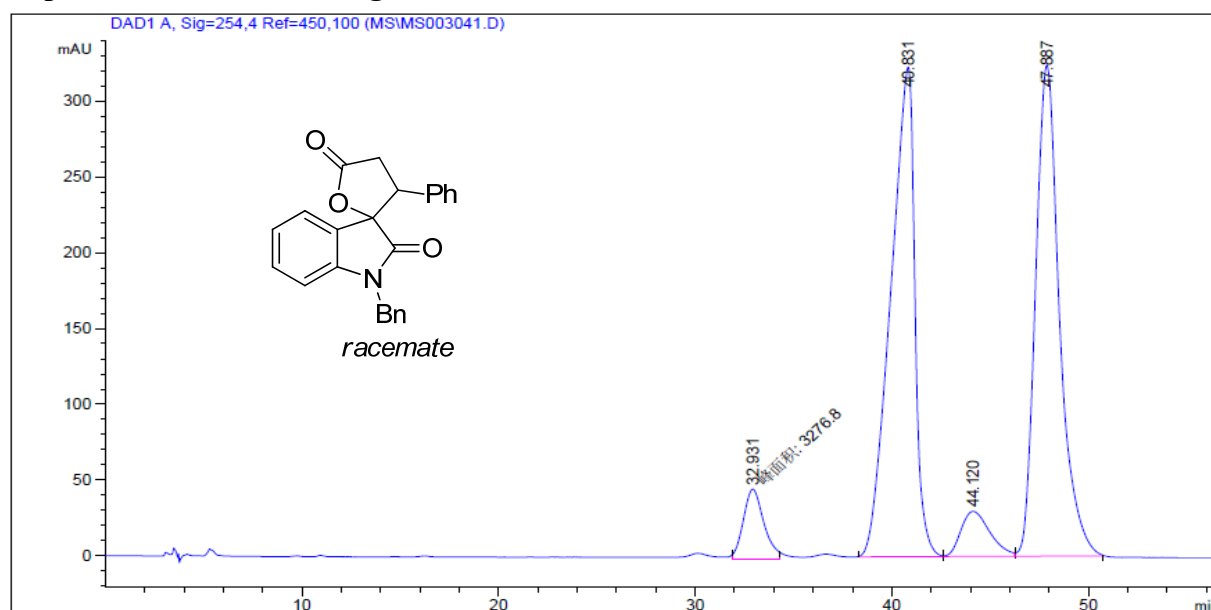


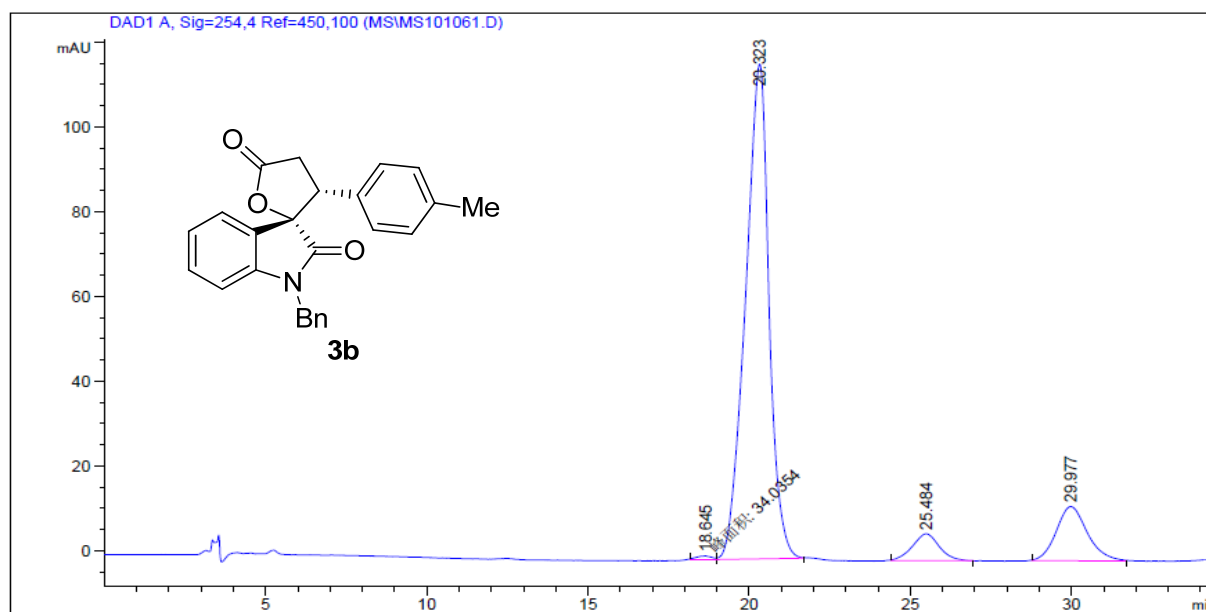
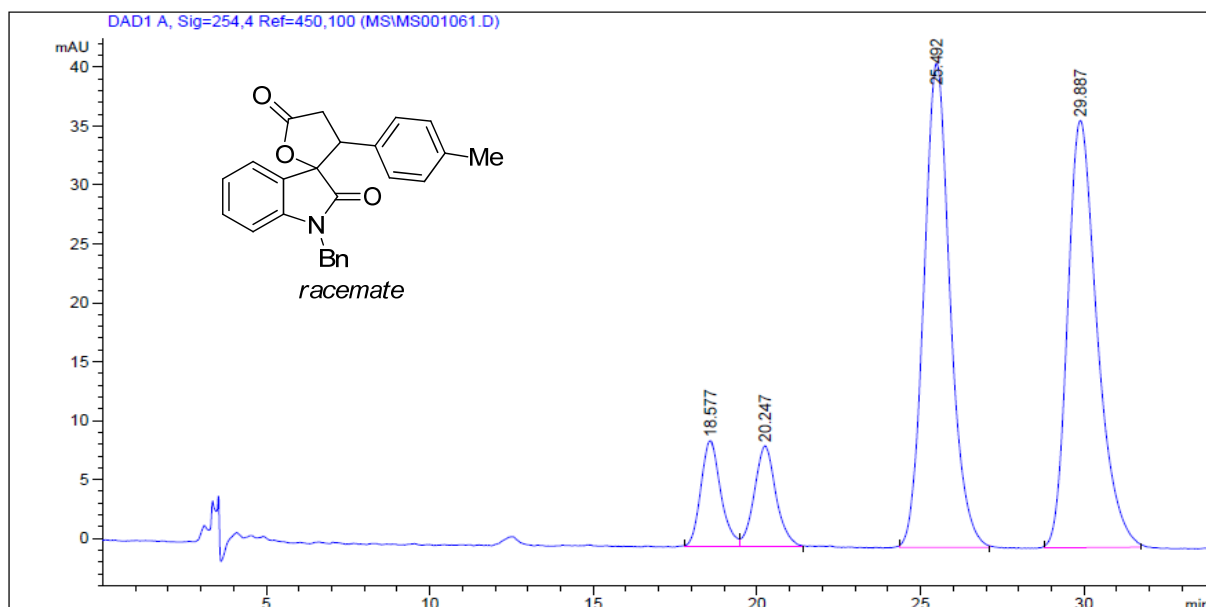


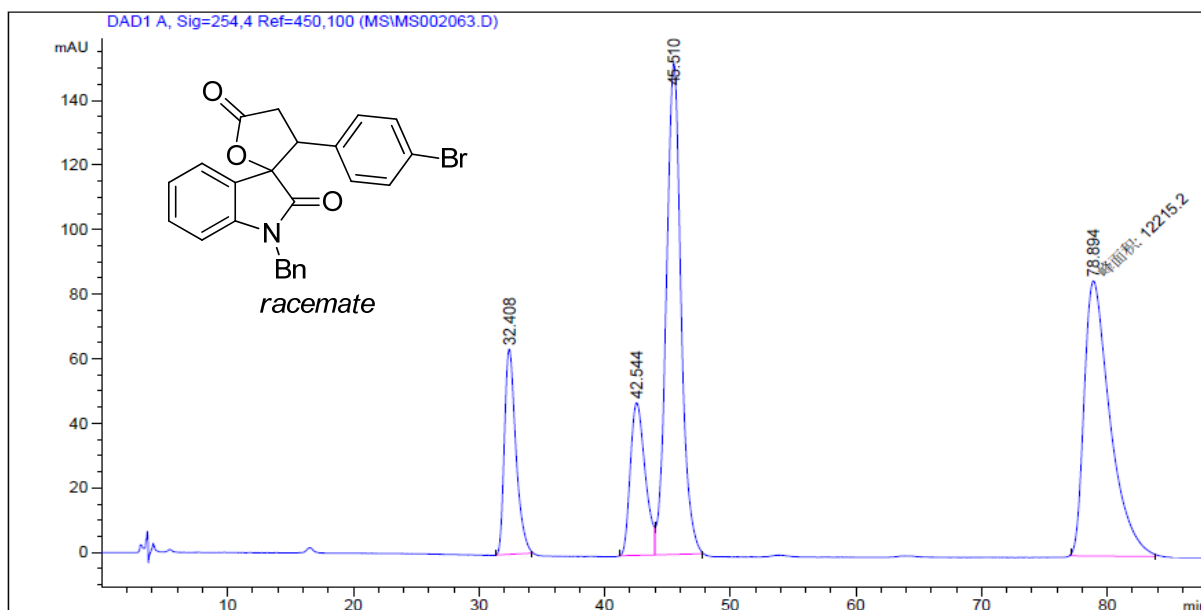




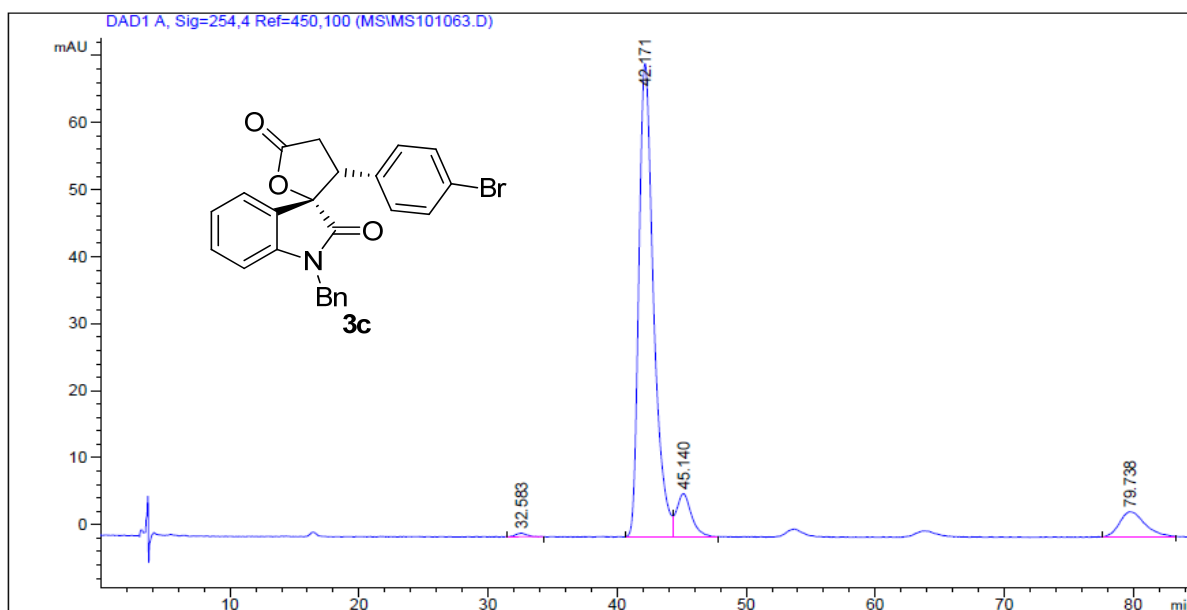
Copies of HPLC chromatograms



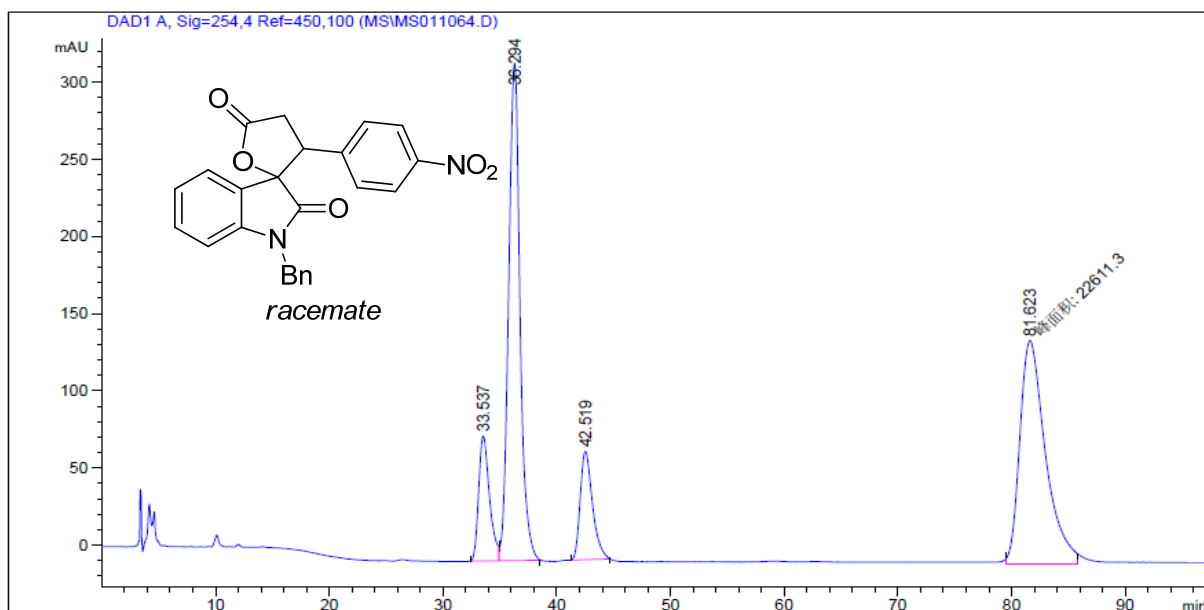




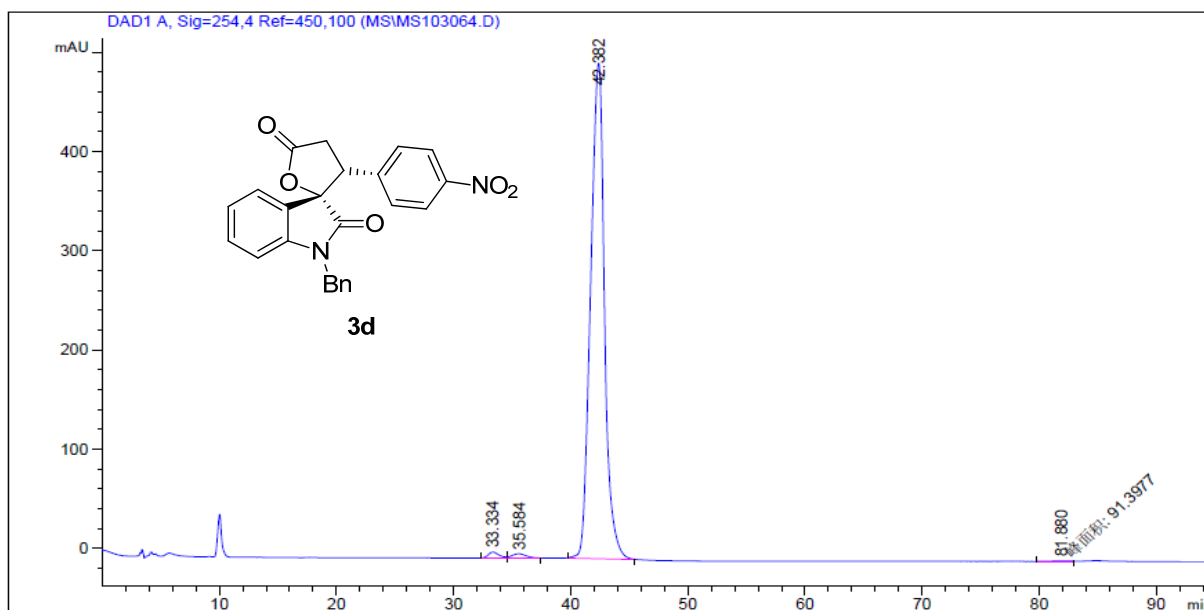
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2	42.544	BV	1.1680	3888.90894	47.26290	11.9480
3	45.510	VB	1.2367	1.24230e4	152.13498	38.1673
4	78.894	MM	2.3895	1.22152e4	85.19984	37.5291



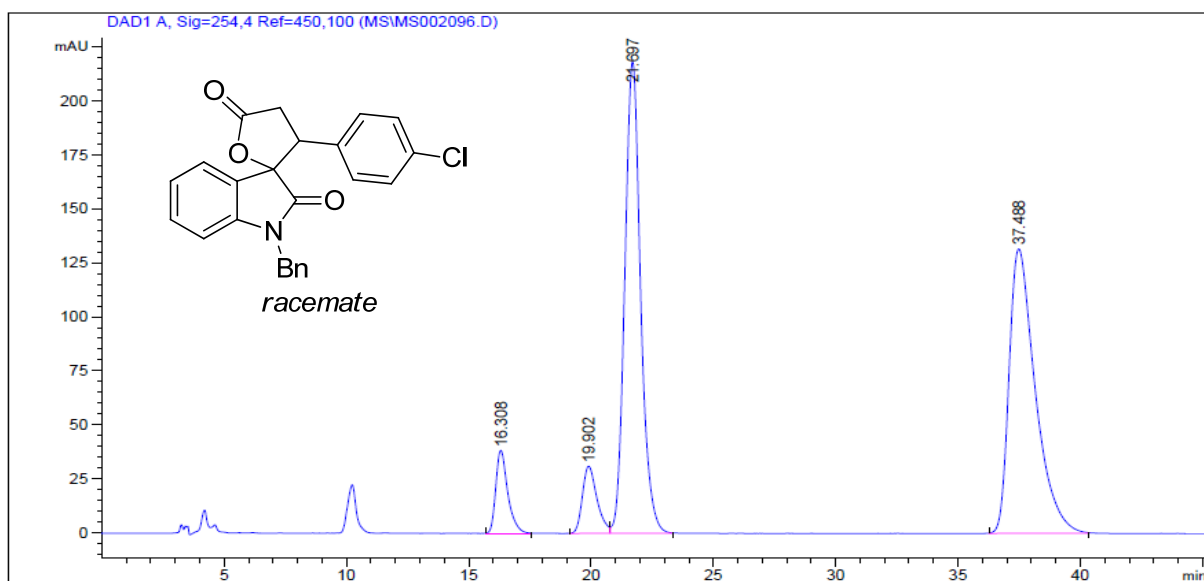
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2	42.171	BV	1.2009	5575.40918	70.63473	83.7966
3	45.140	VB	1.1706	523.69794	6.45430	7.8710
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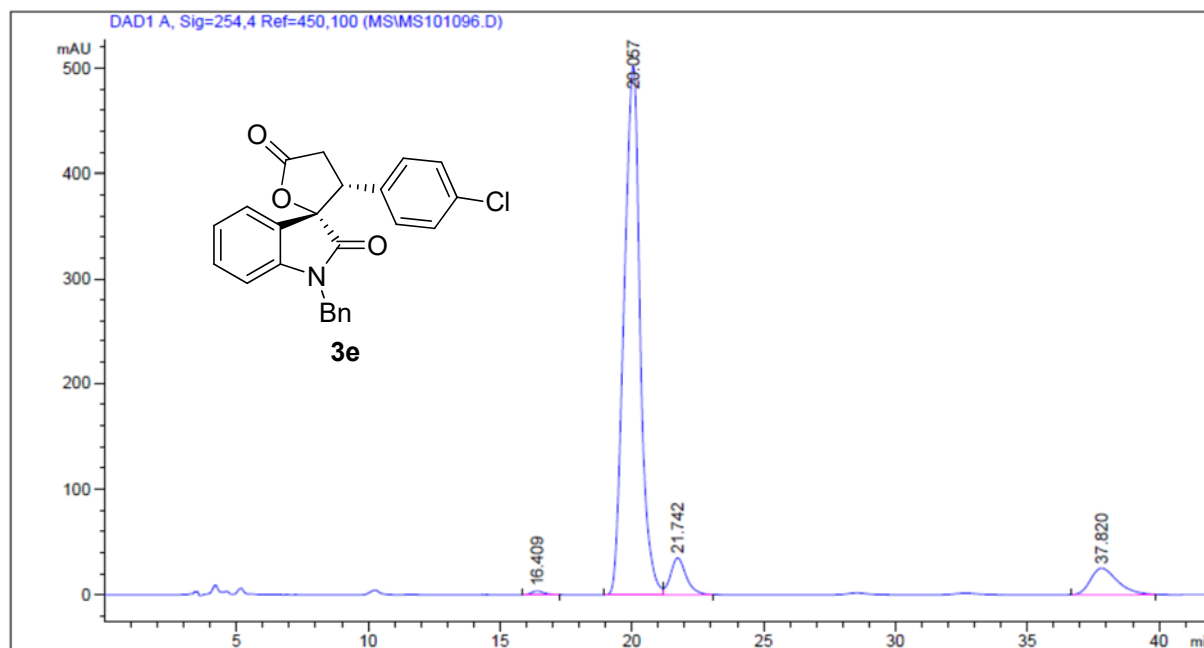
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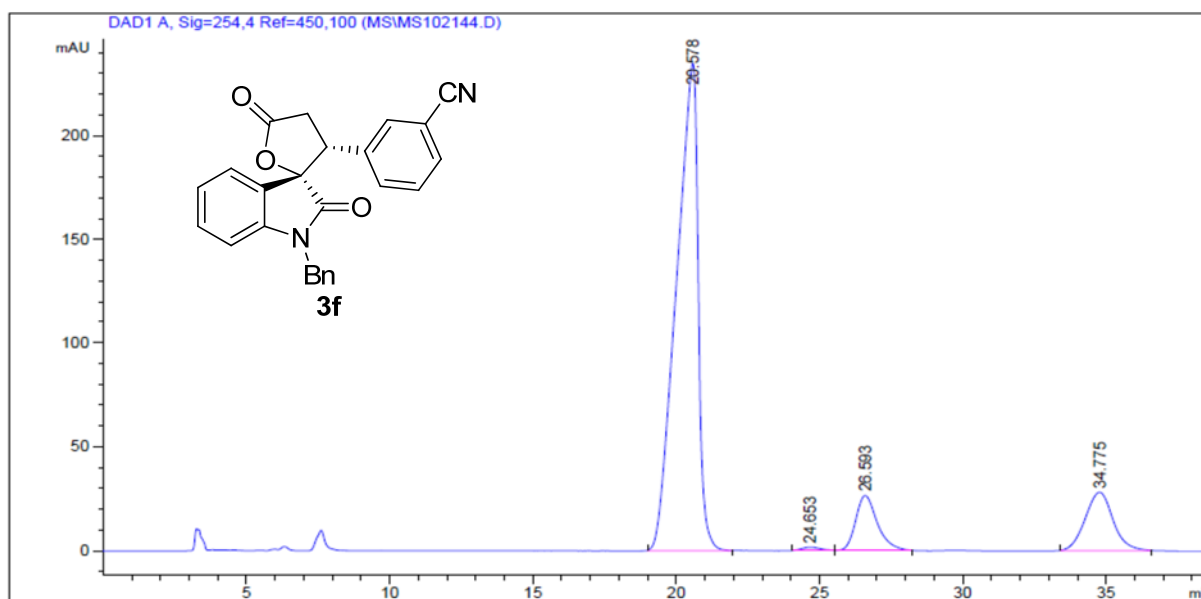
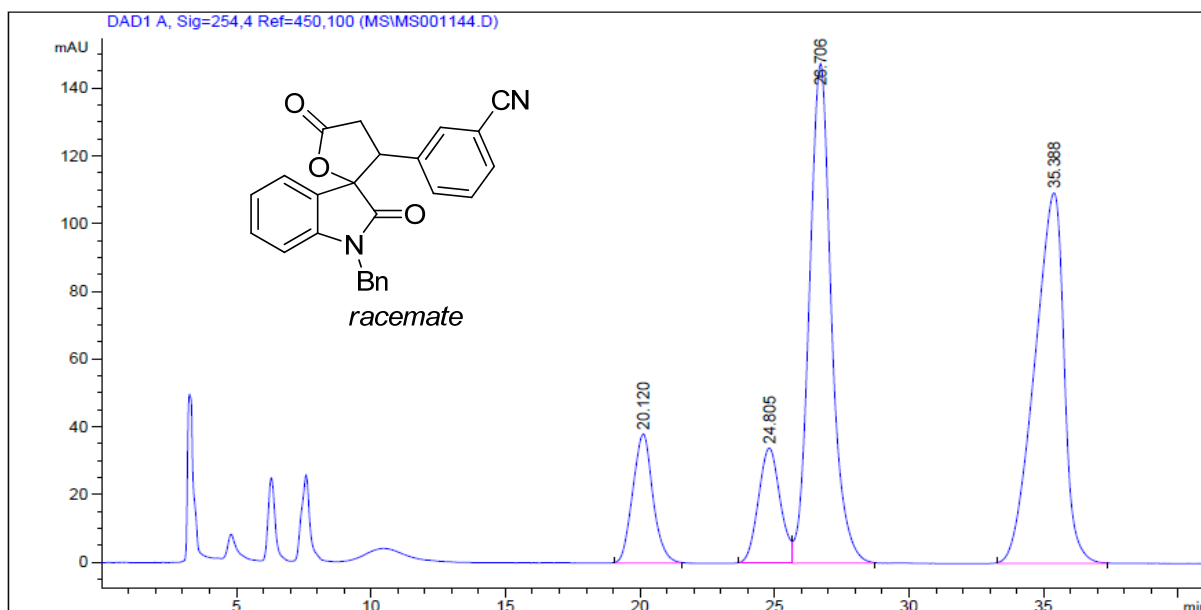
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2	35.584	VB	1.0300	358.51495	4.26816	0.8563
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4	81.880	MM	2.1372	91.39772	7.12768e-1	0.2183

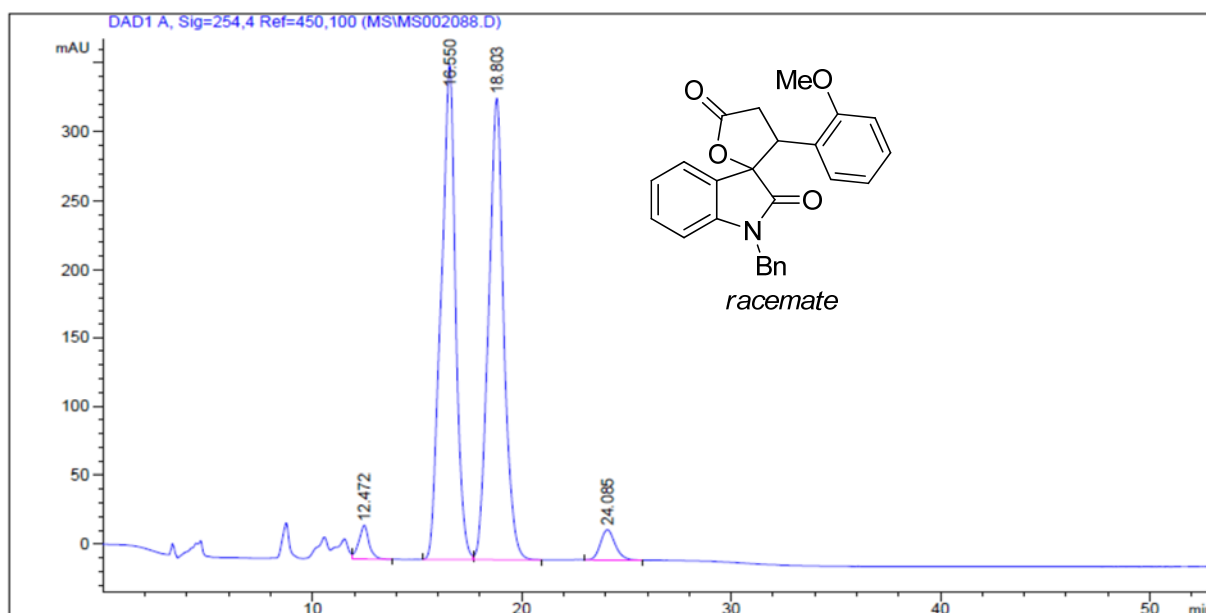


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2	19.902	BV	0.6223	1286.25940	31.11555	5.7942
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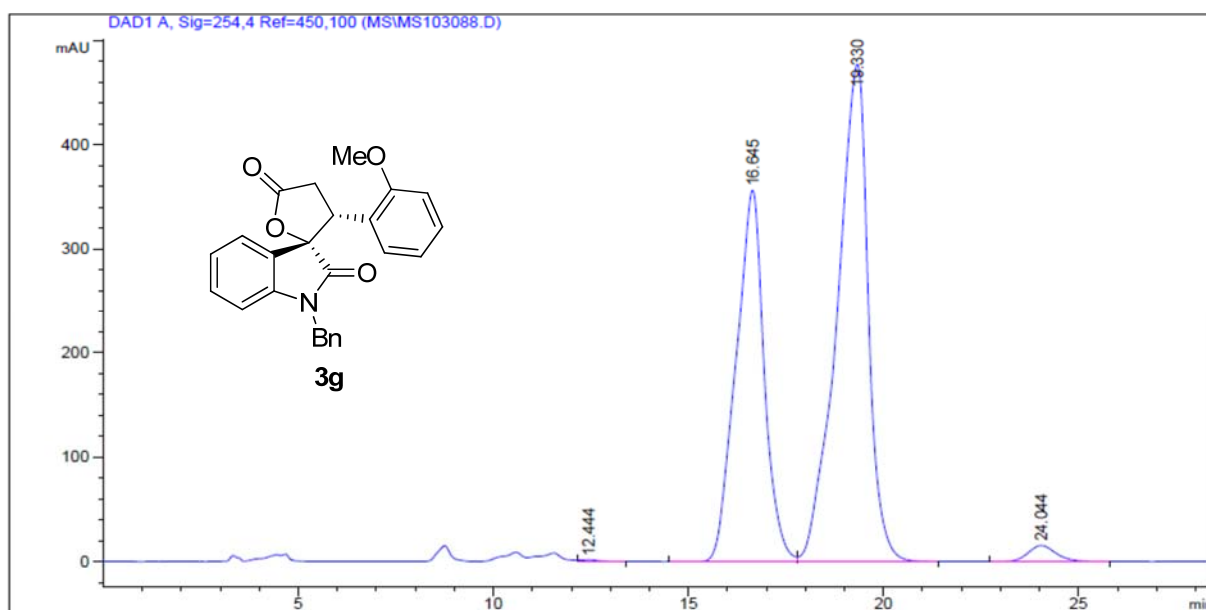


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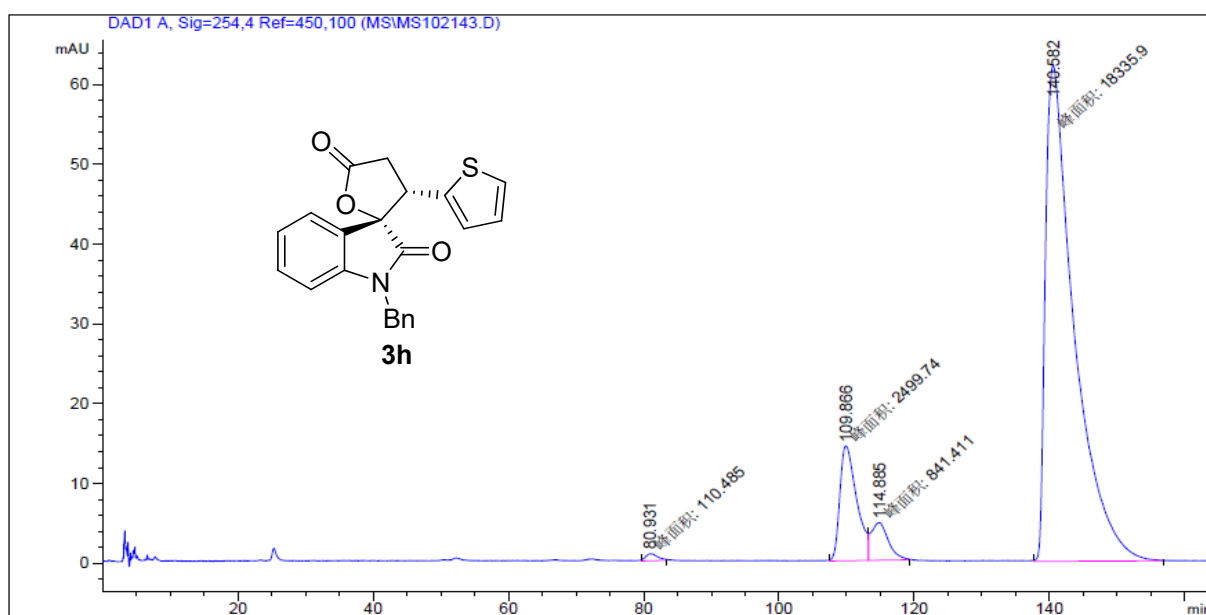
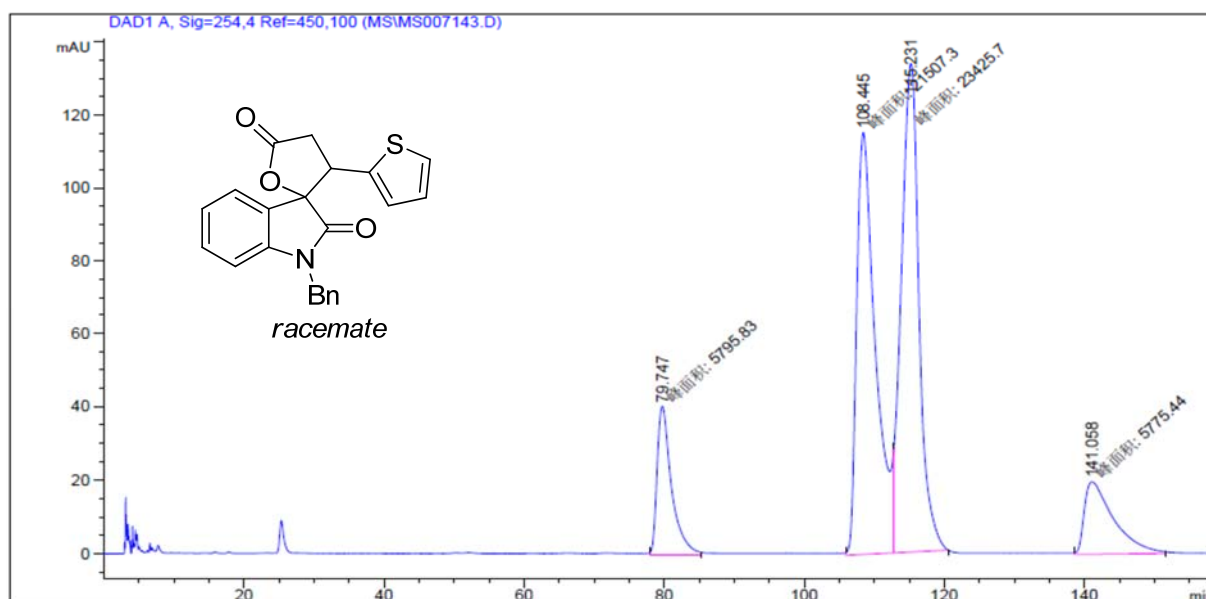


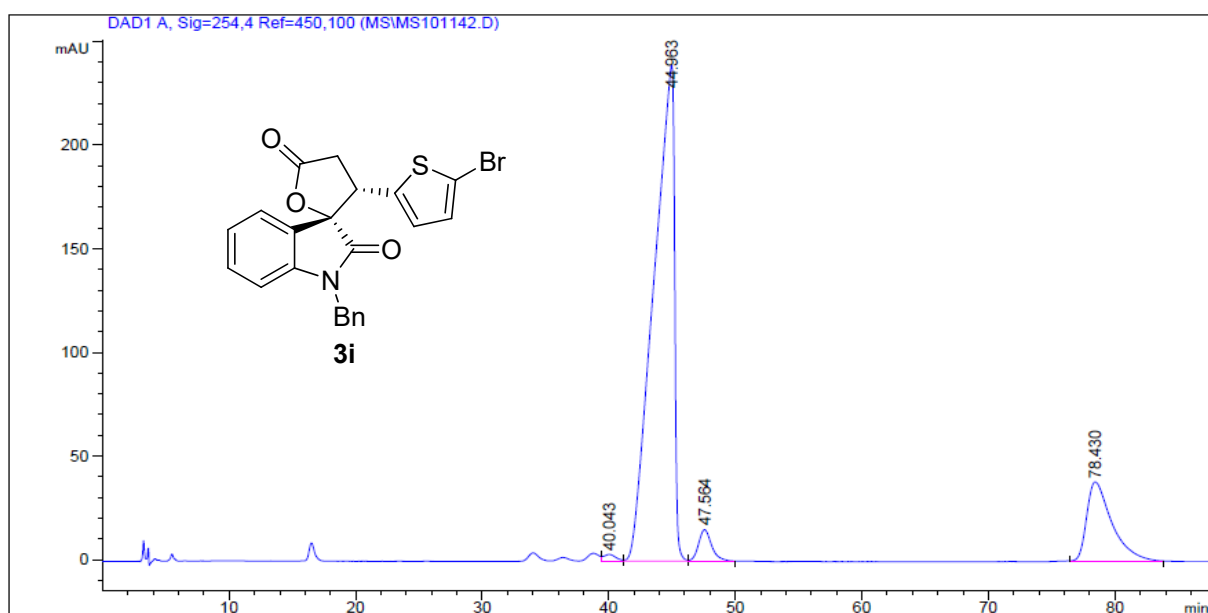
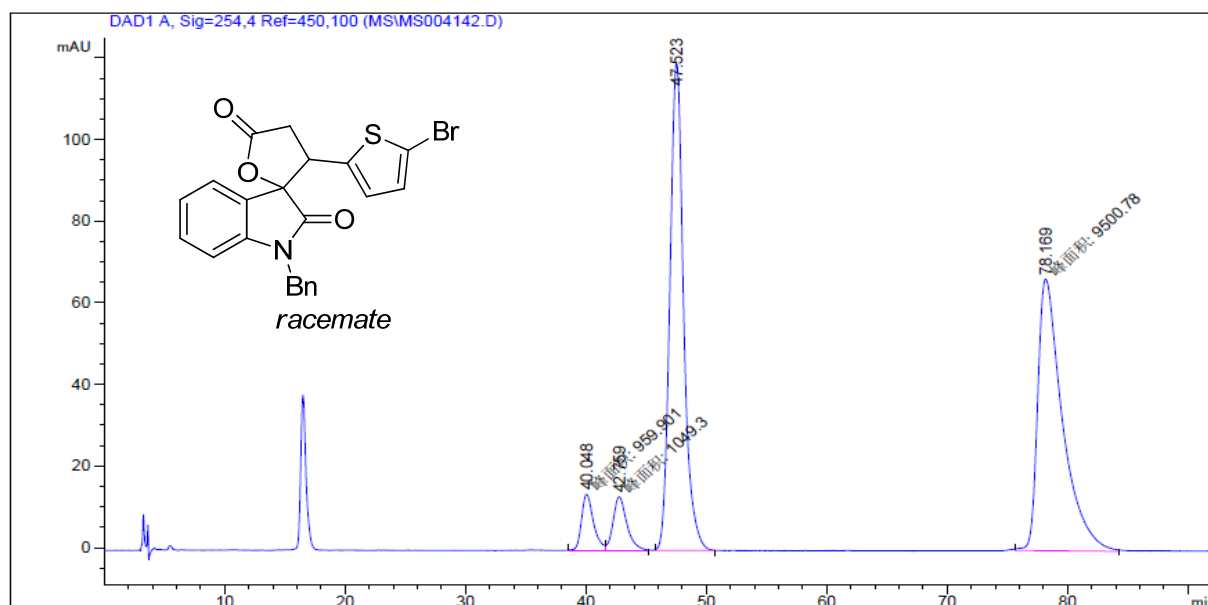


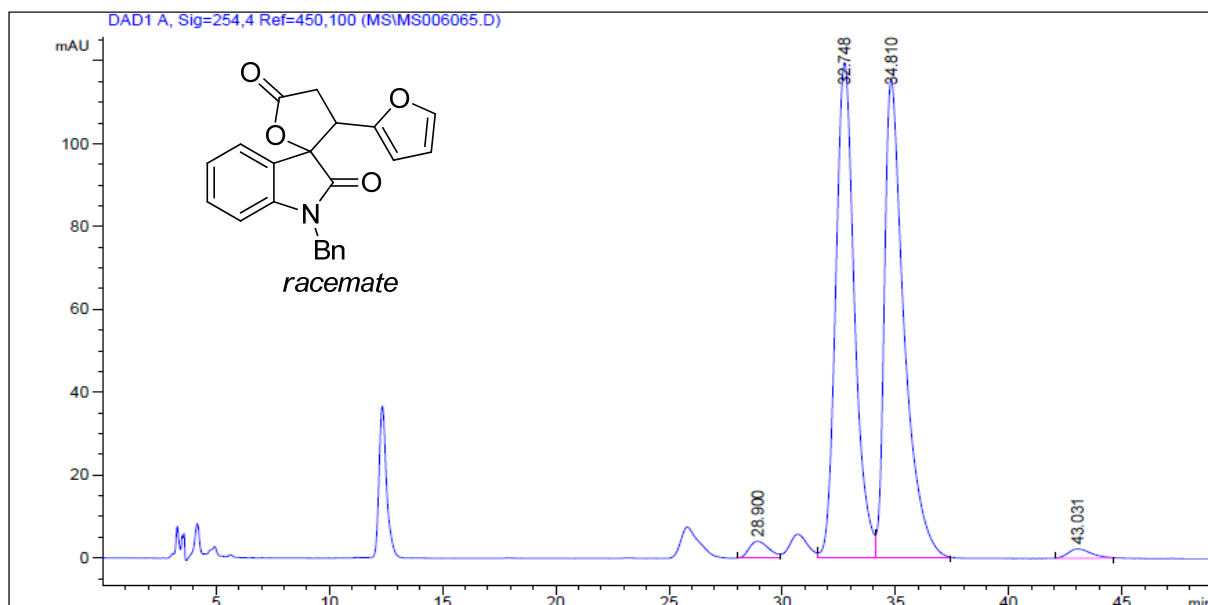
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3	18.803	VB	0.7409	1.70630e4	335.73413	47.0074
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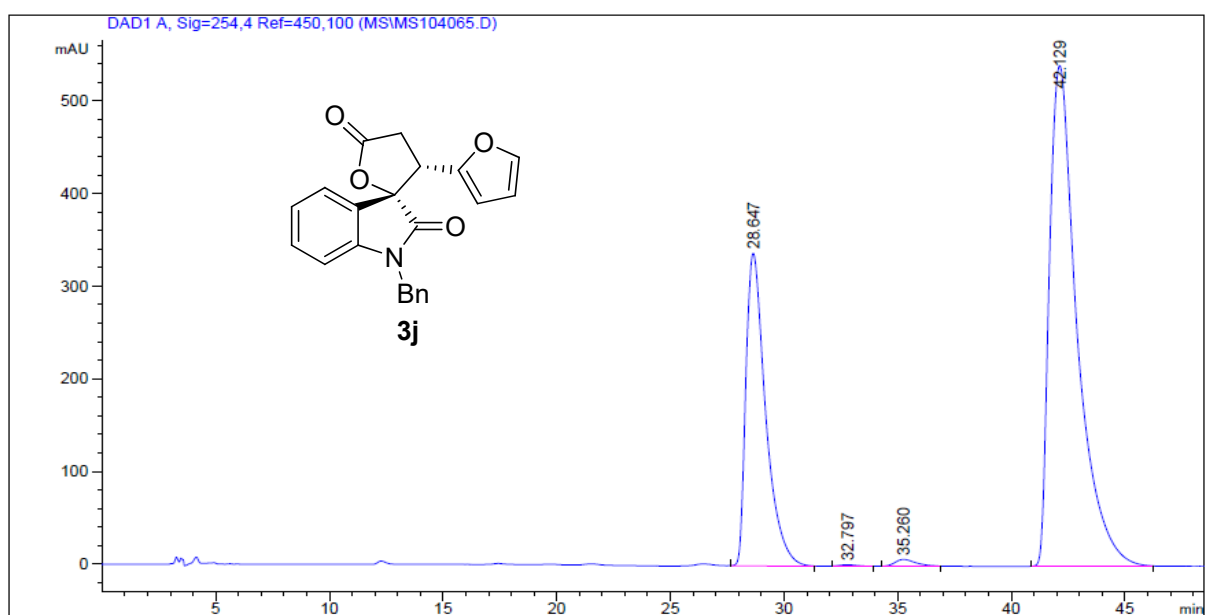
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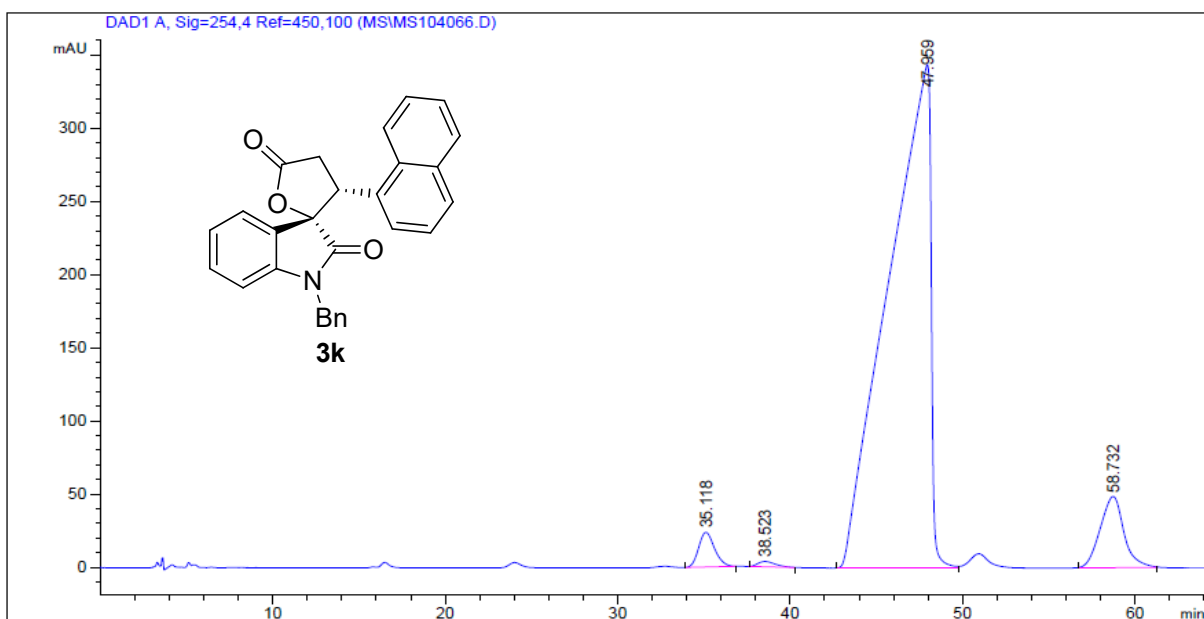
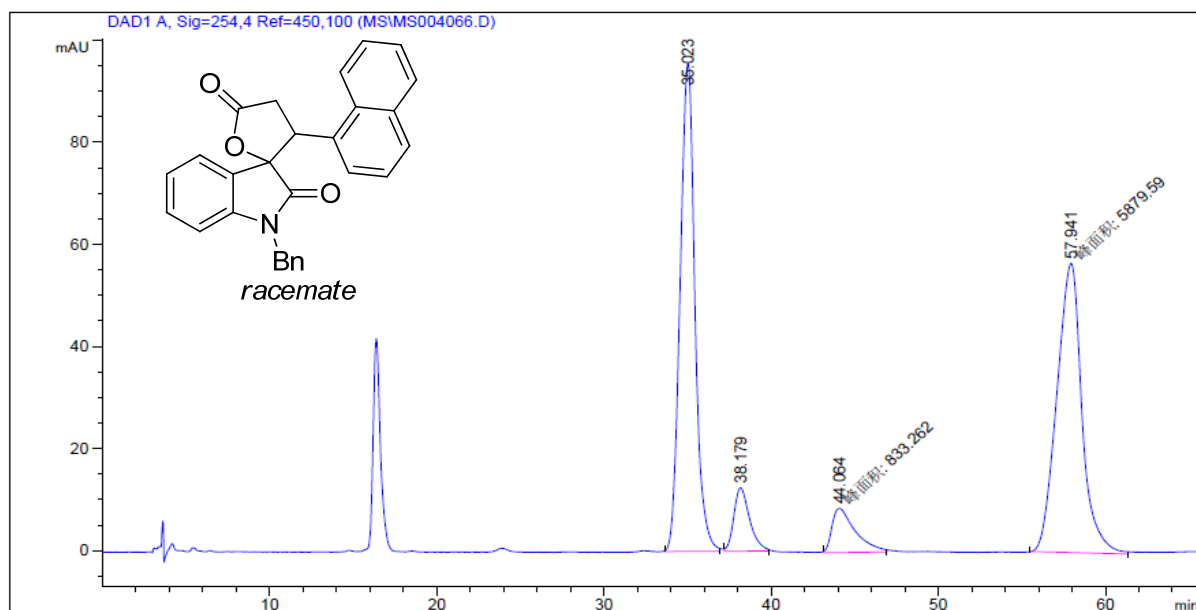


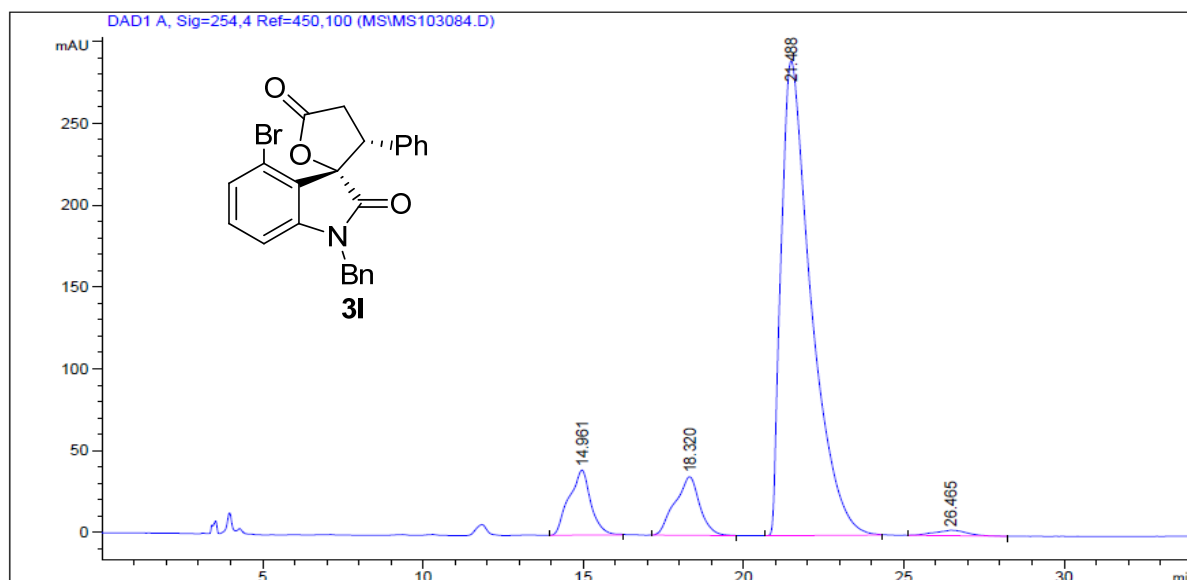
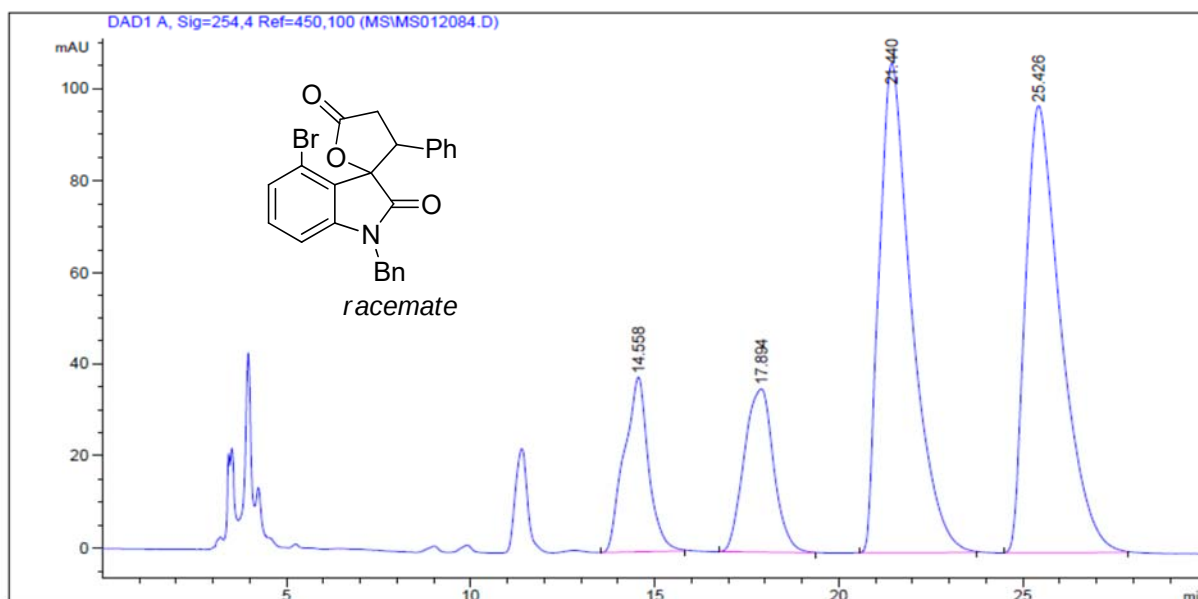


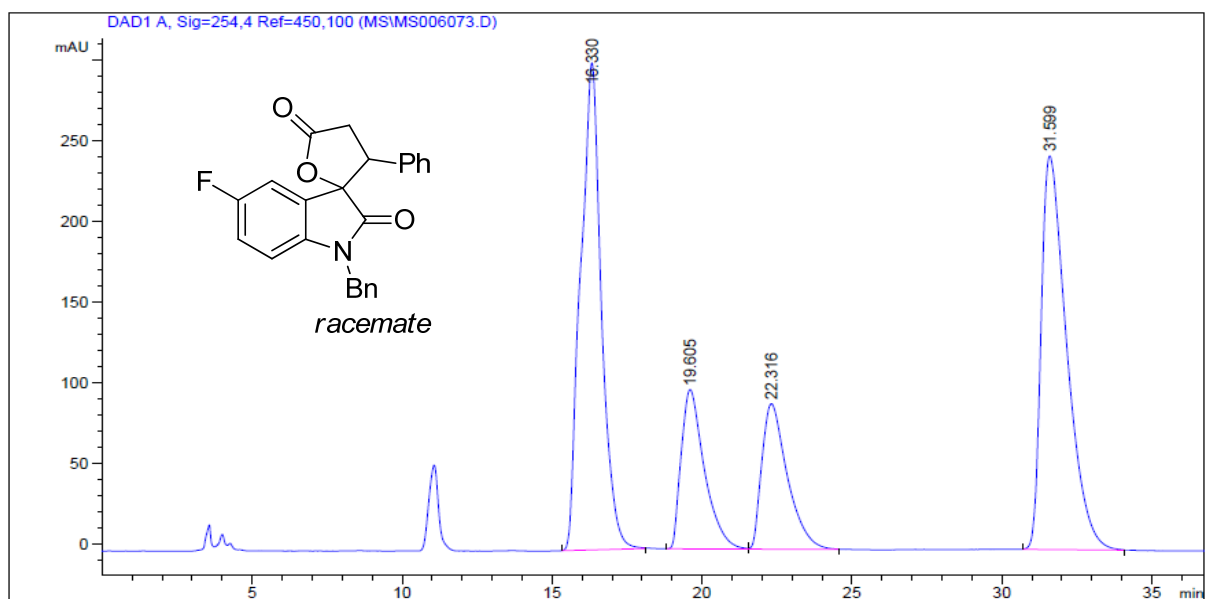
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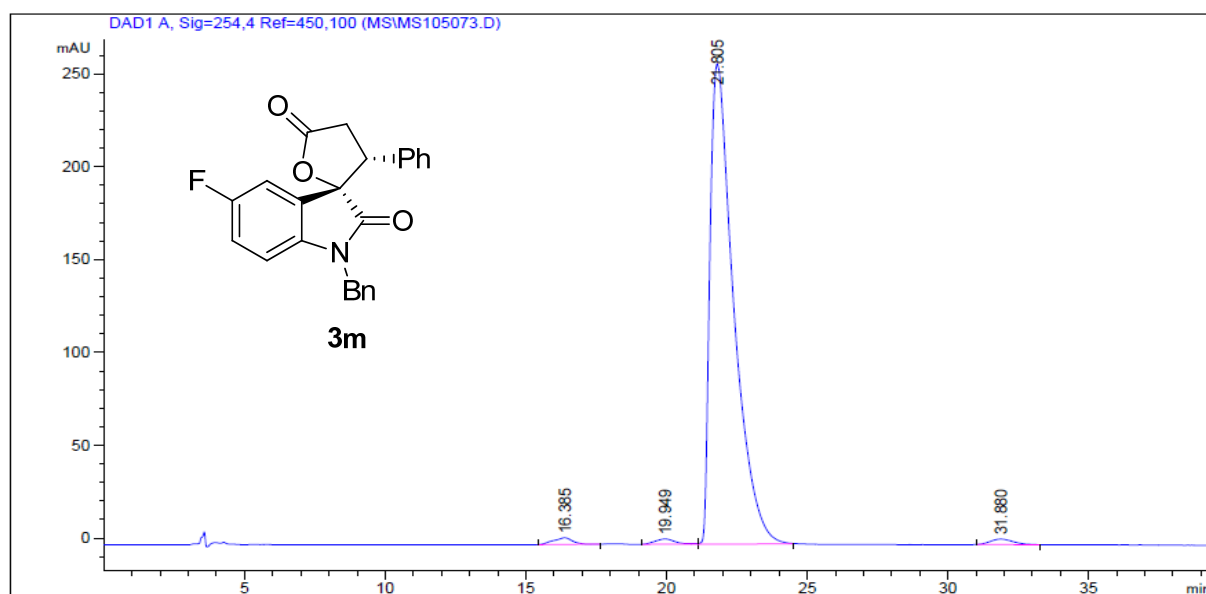
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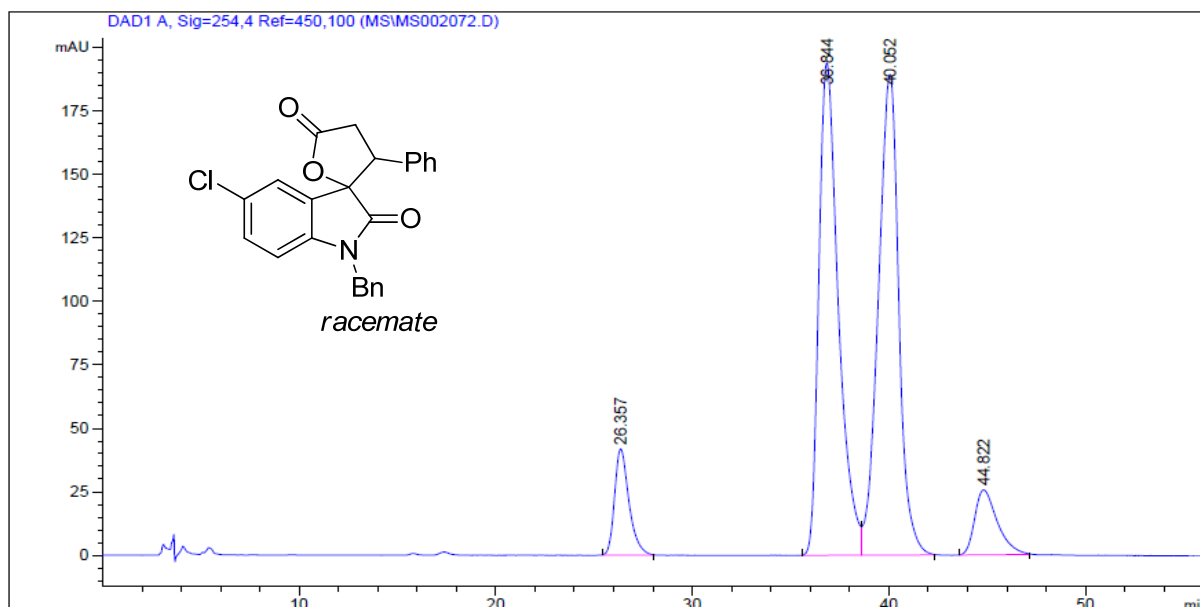




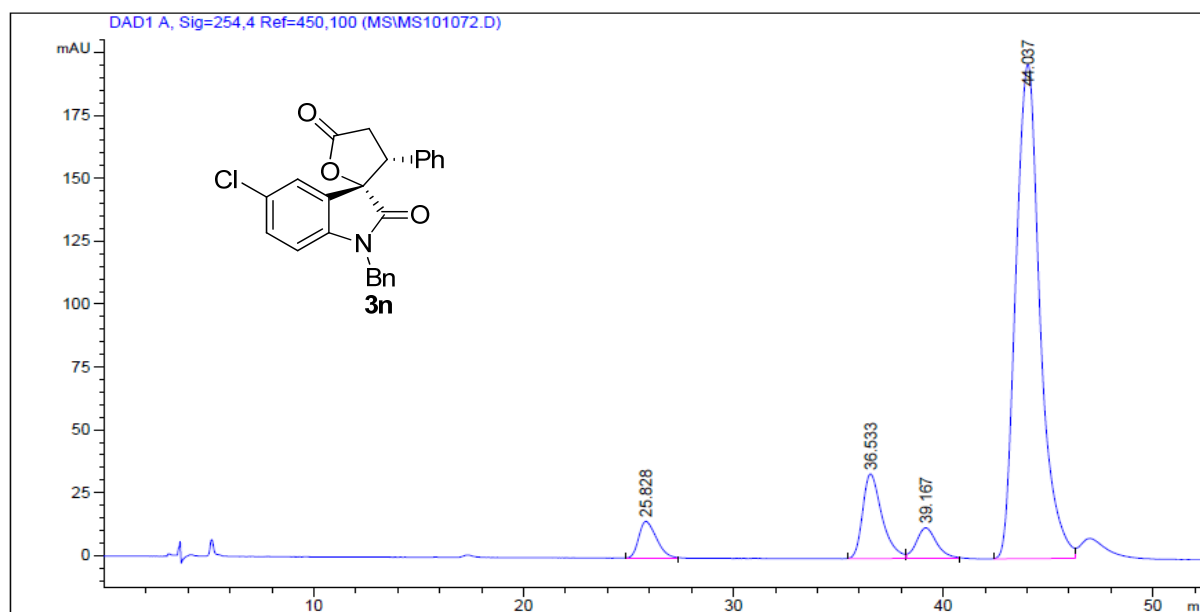
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2	19.605	BB	0.8360	5316.35010	98.76081	13.4358
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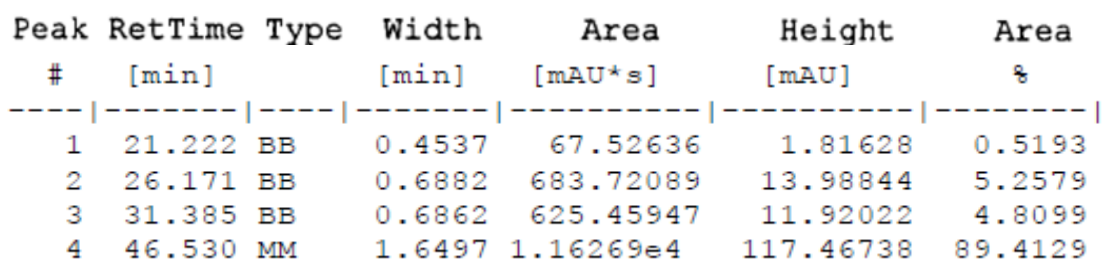
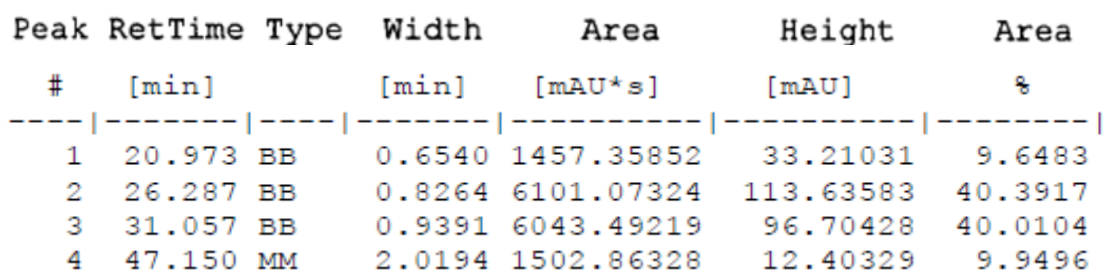
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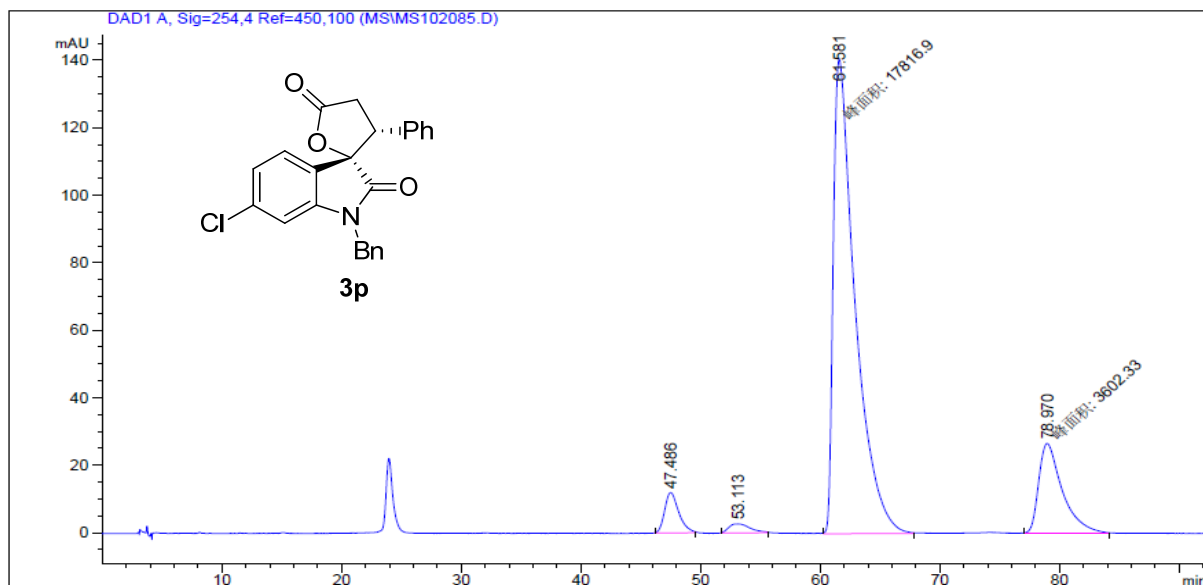
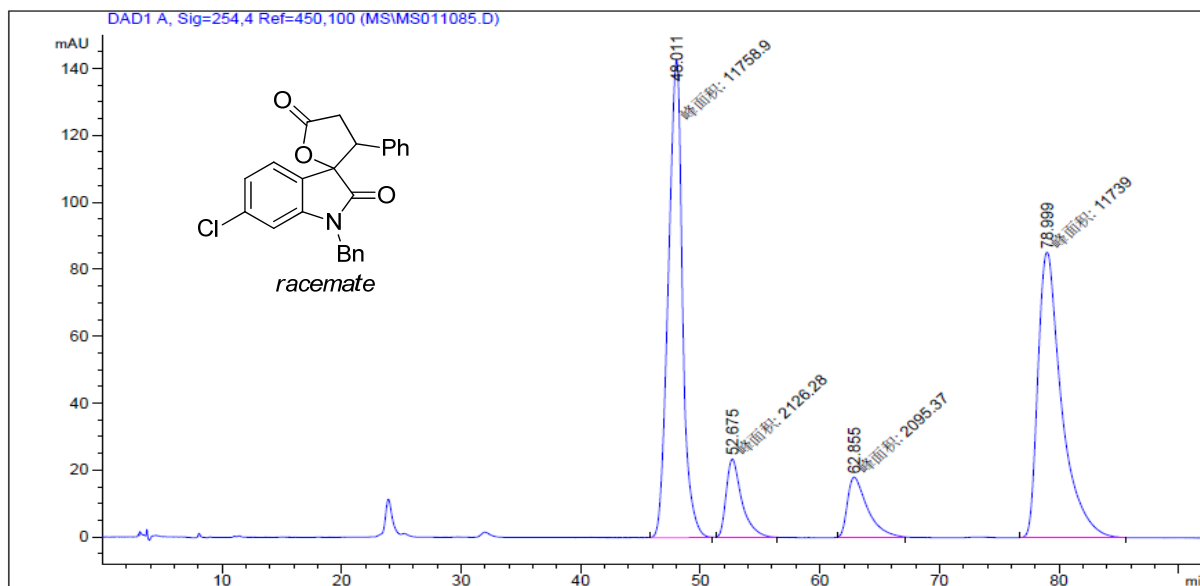


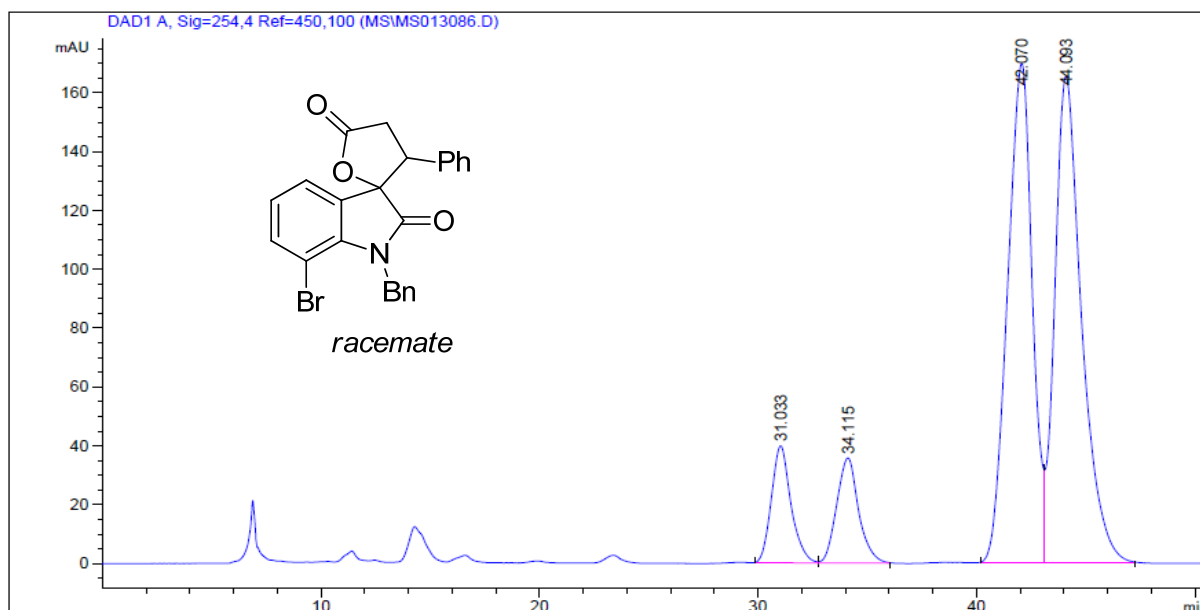
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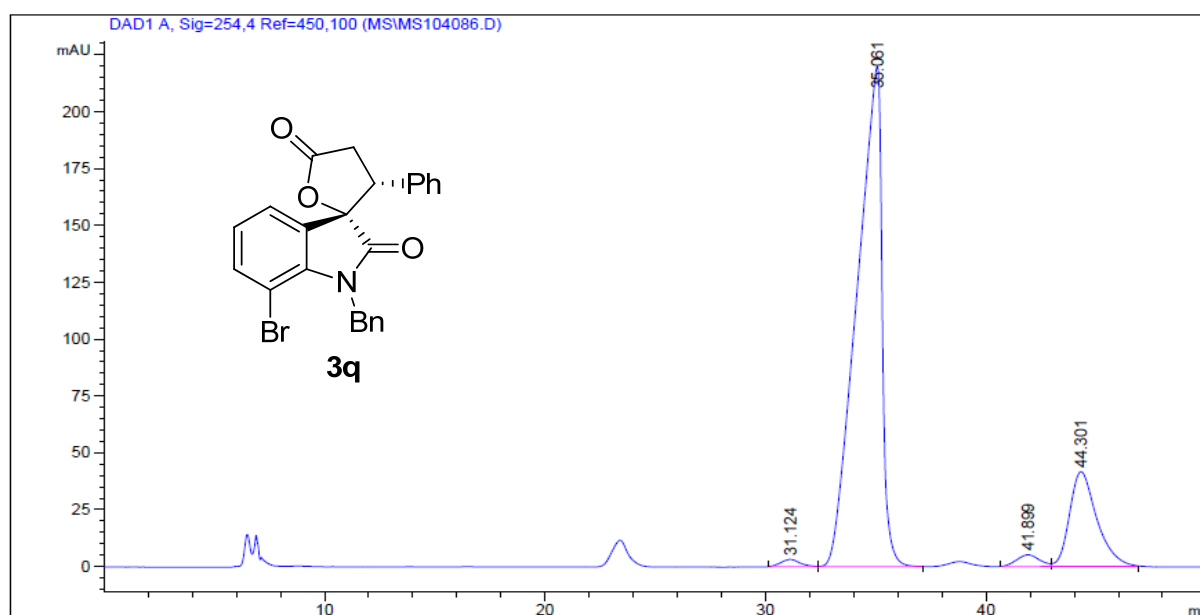
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	25.828	BB	0.8316	849.43970	14.58134	4.3393
2	36.533	BB	0.9679	2161.03418	33.62035	11.0394
3	39.167	BB	0.8985	806.00745	12.14066	4.1174
4	44.037	BV	1.2513	1.57592e4	196.58266	80.5039







Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	31.033	BB	0.9126	2474.75073	39.73840	7.6448
2	34.115	BB	1.0483	2485.56909	35.70023	7.6782
3	42.070	BV	1.2020	1.32942e4	169.69278	41.0673
4	44.093	VB	1.2827	1.41172e4	165.25150	43.6097



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	31.124	BV	0.7855	197.47490	3.22015	0.9197
2	35.061	VB	1.1257	1.73156e4	220.13132	80.6411
3	41.899	BV	0.8800	374.68188	5.13086	1.7449
4	44.301	VB	1.2888	3584.65771	41.70513	16.6943

