Supporting Information

Iridium-Catalyzed Asymmetric Hydroalkynylation Reactions of Oxabenzonorbornadienes

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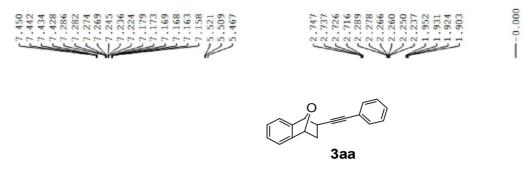
^a Key Laboratory of Chemistry in Ethnic Medicinal Resources, State Ethnic Affairs Commission & Ministry of Education, Yunnan University of Nationalities, Kunming, 650500, China. Fax: (+86)-871-5910017, E-mail: adams.bmf@hotmail.com

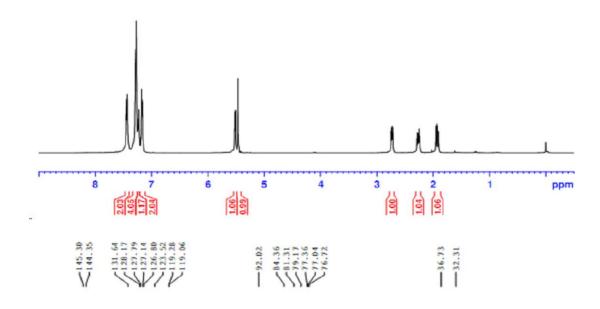
^c Institute of Creativity, Hong Kong Baptist University, Hong Kong, China. Fax: +852-34112123, E-mail: ascchan@hkbu.edu.hk

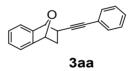
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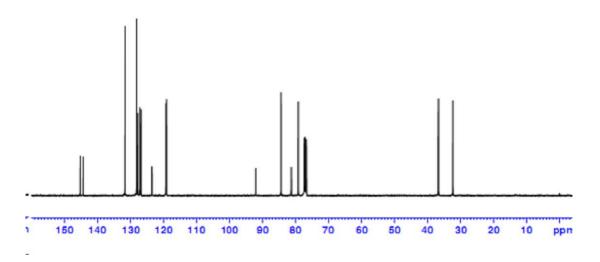
^b School of Chinese Medicine, Hong Kong Baptist University, Hong Kong, China.

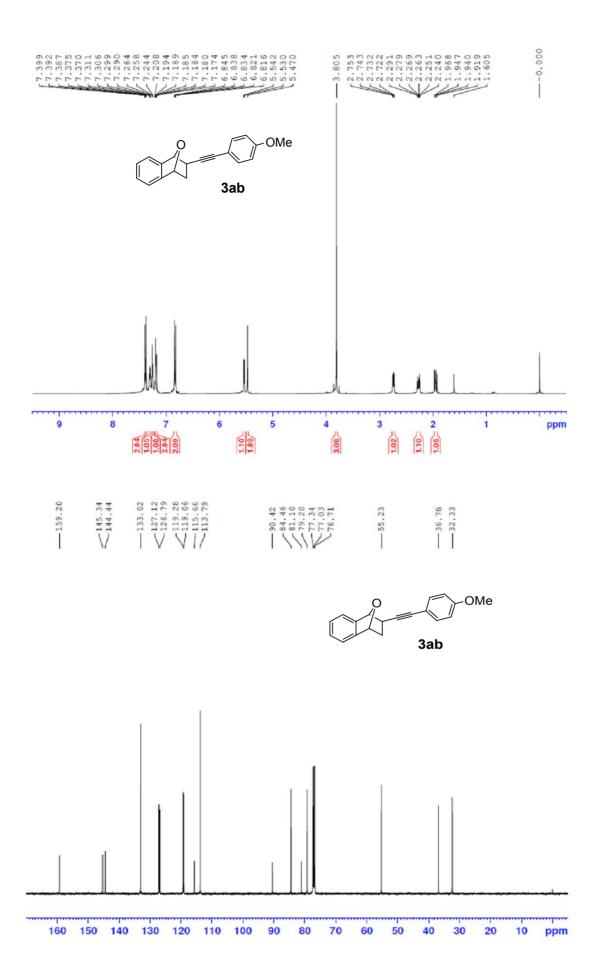
1. Copies of ¹H and ¹³C NMR spectra of compounds 3aa-ak, 3bb-gb

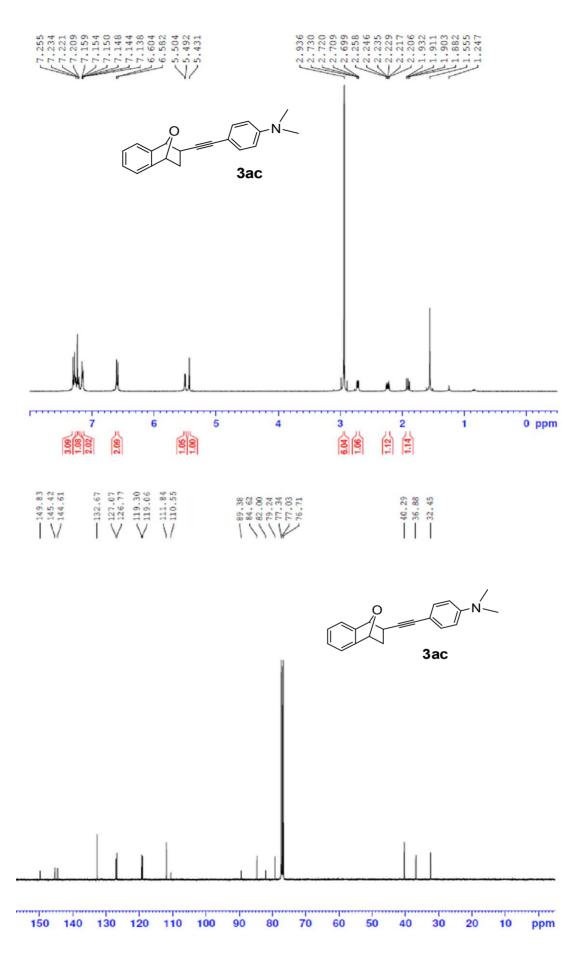


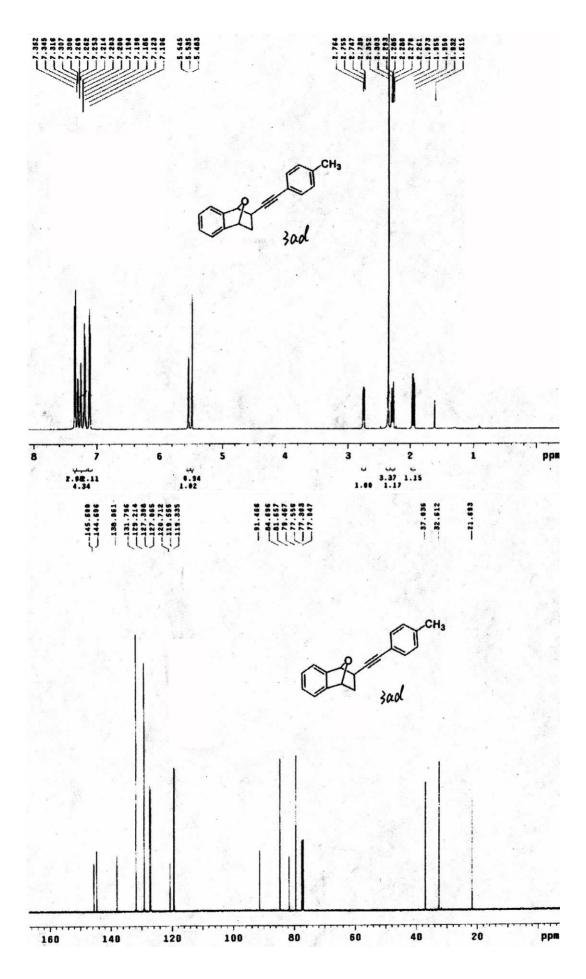


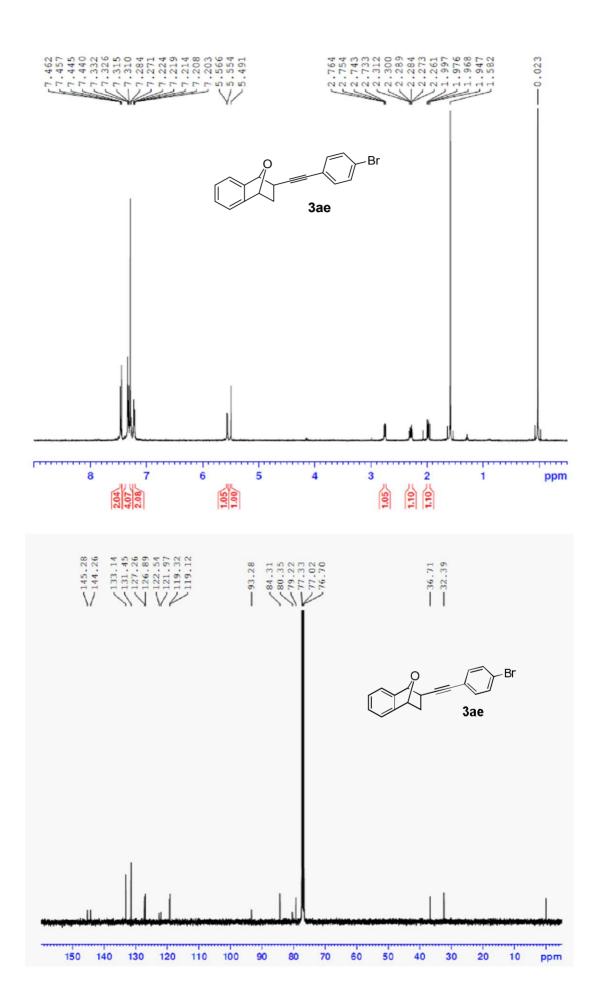


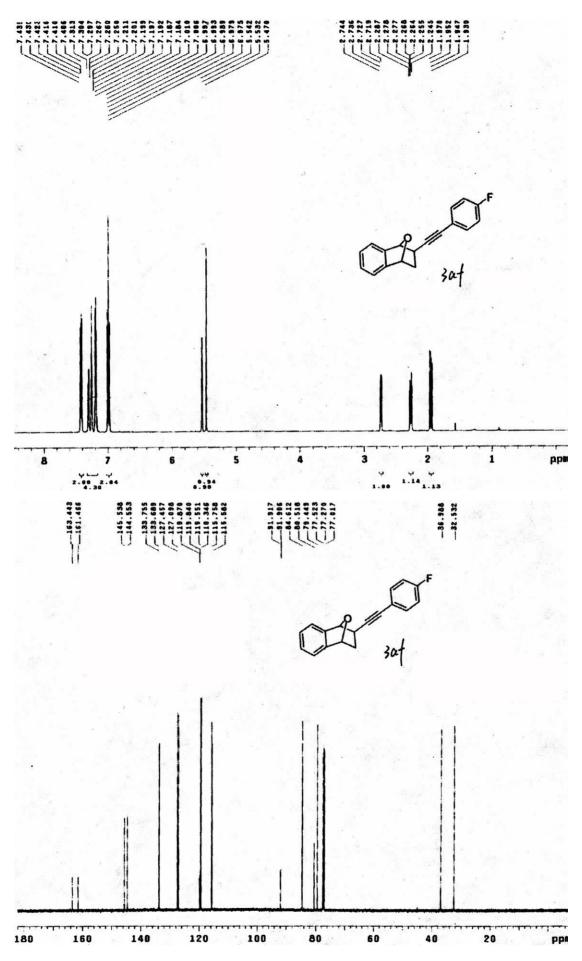


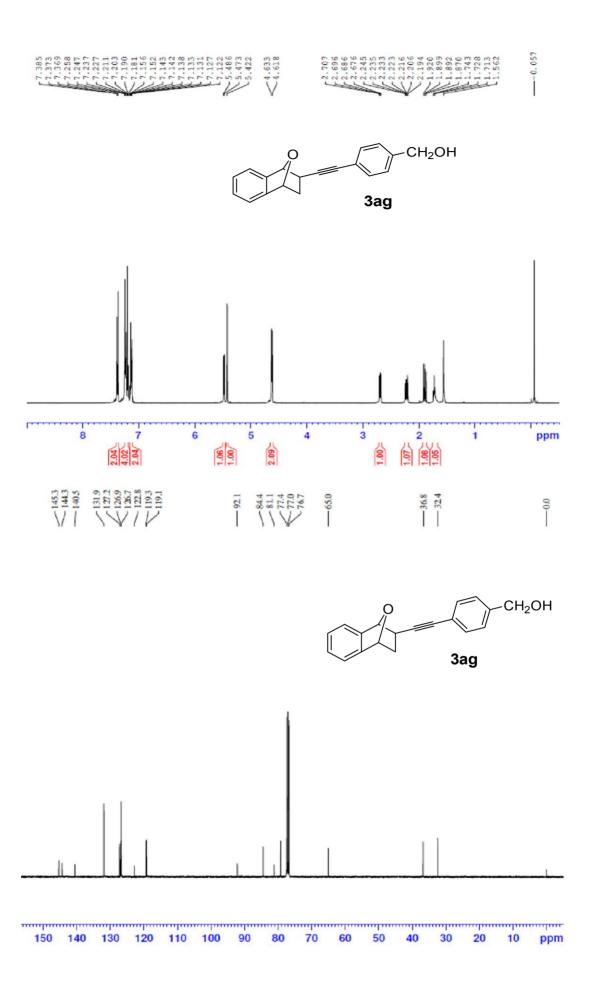


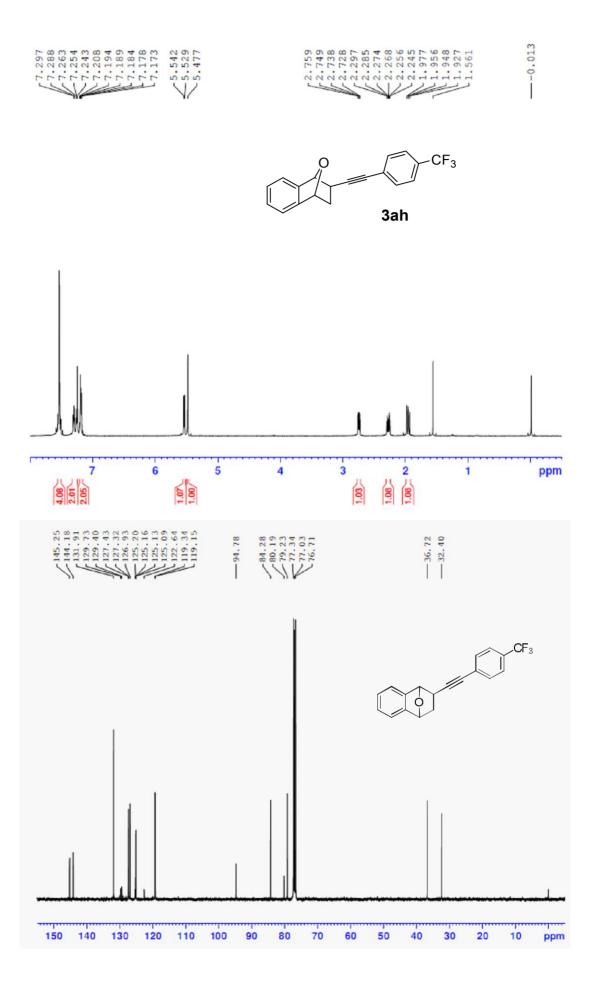


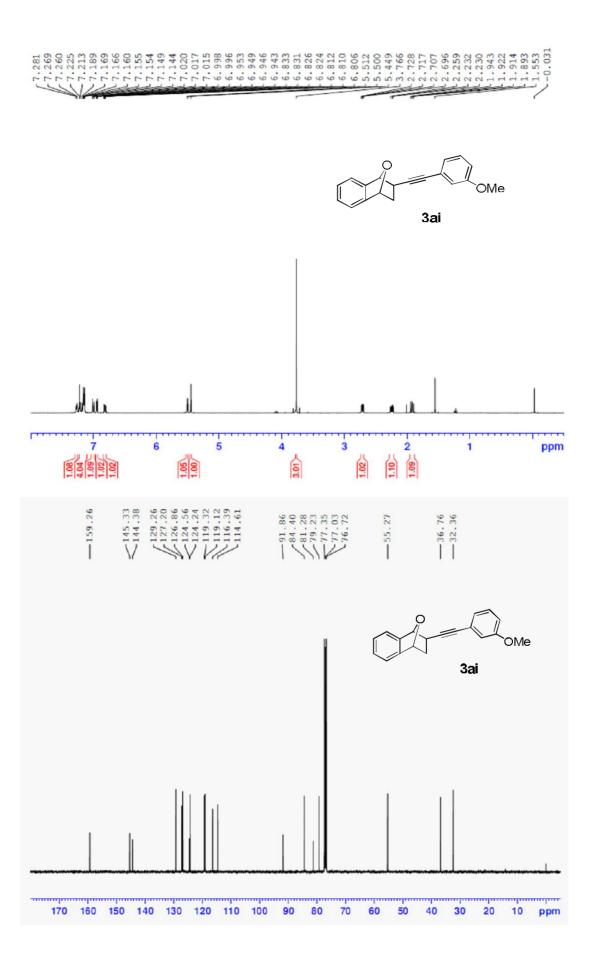


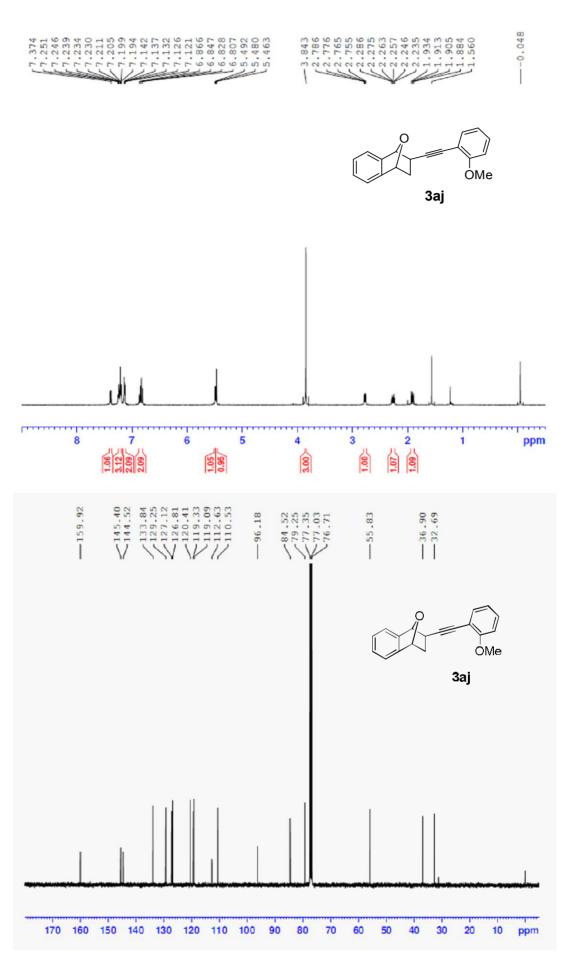


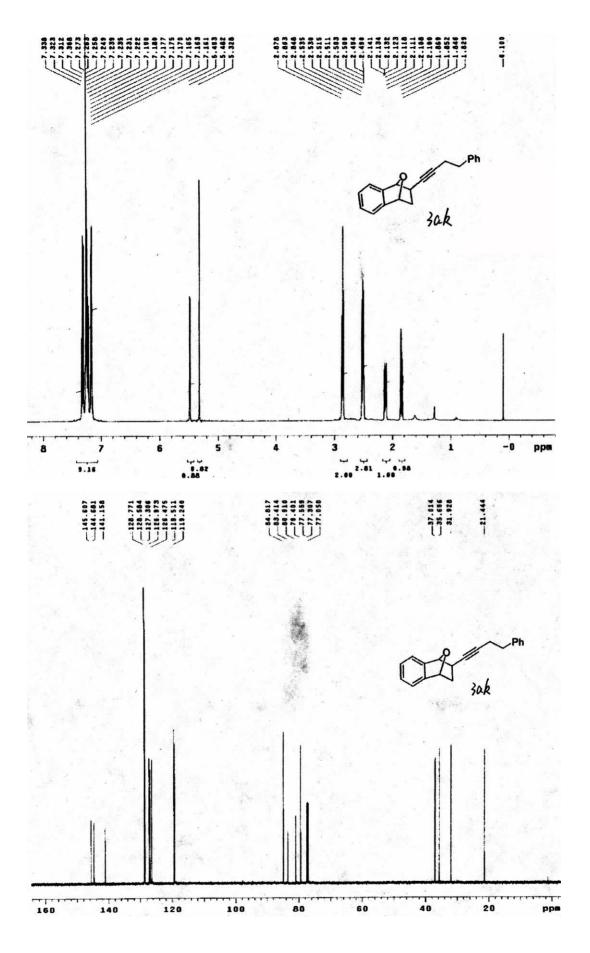


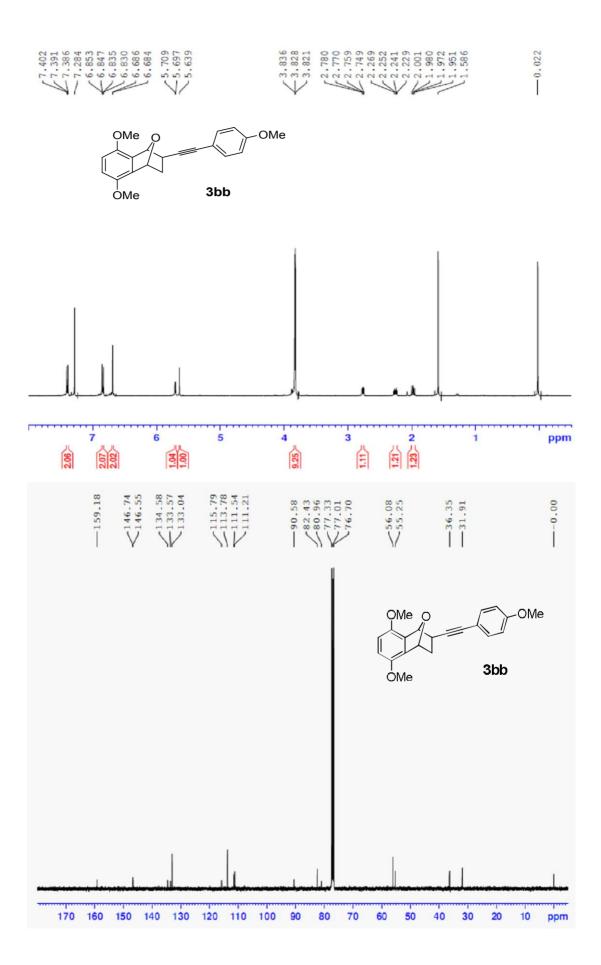


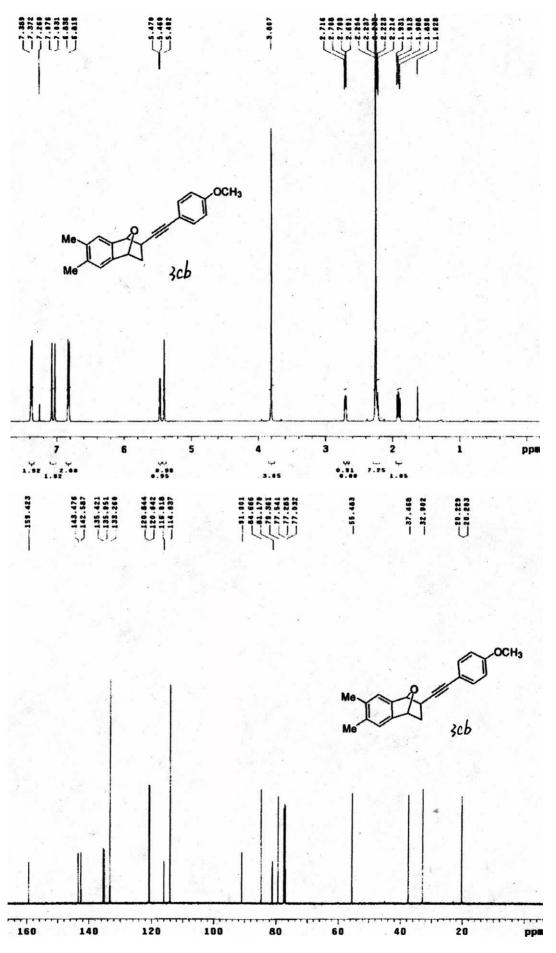


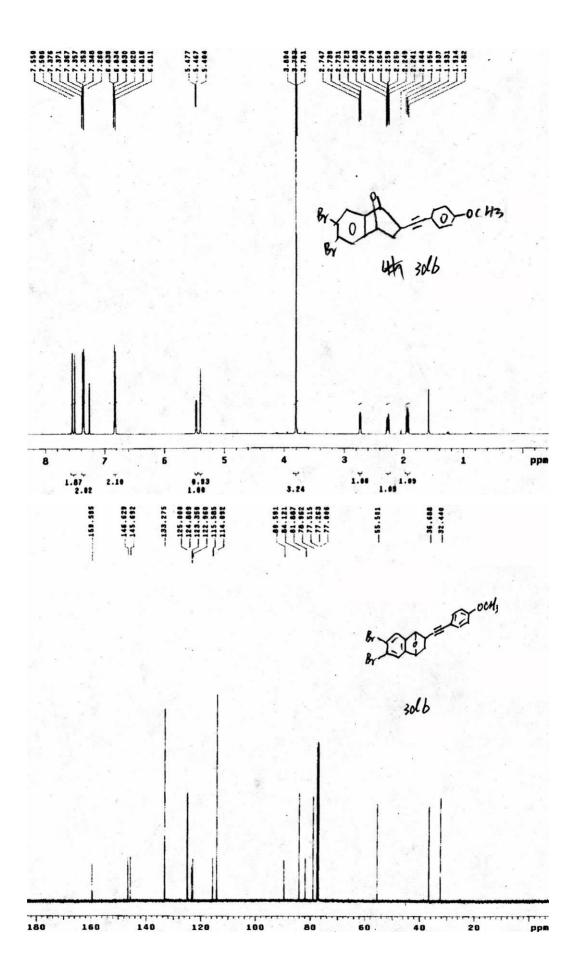


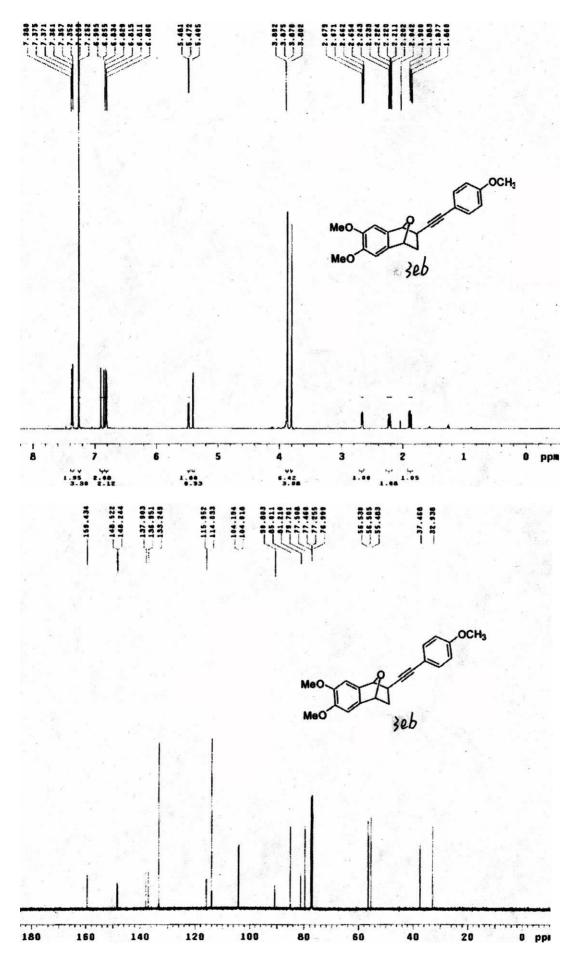


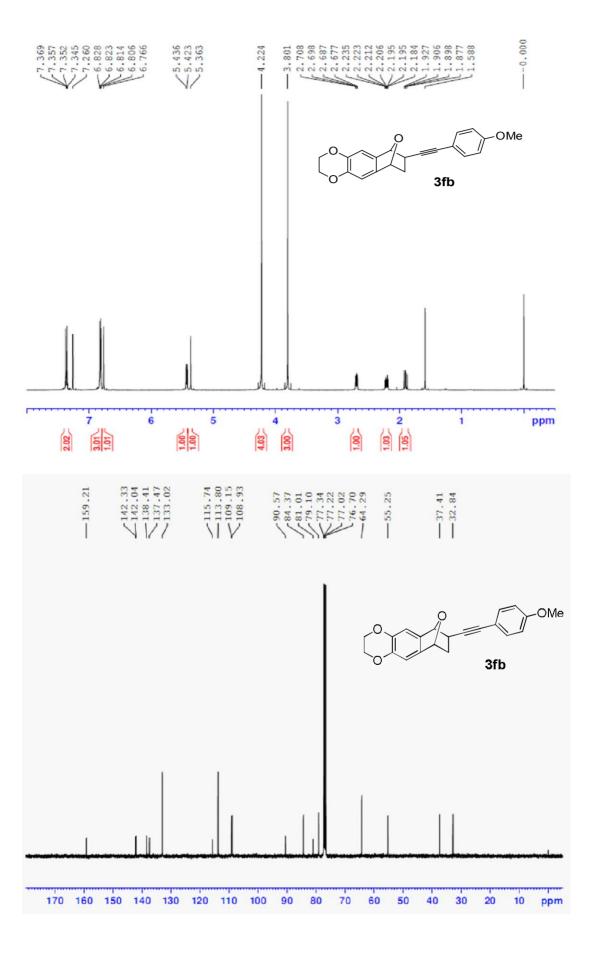


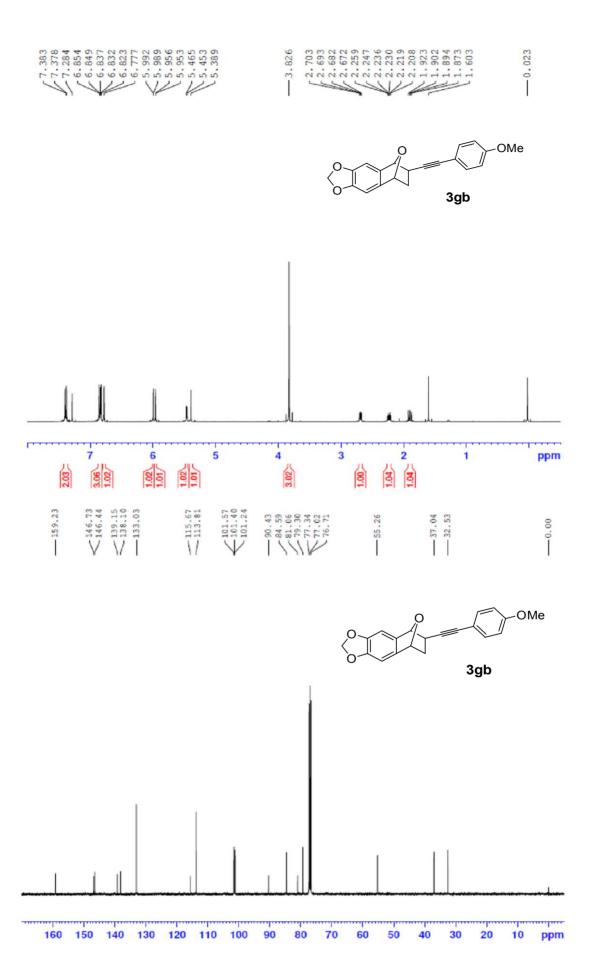




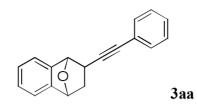


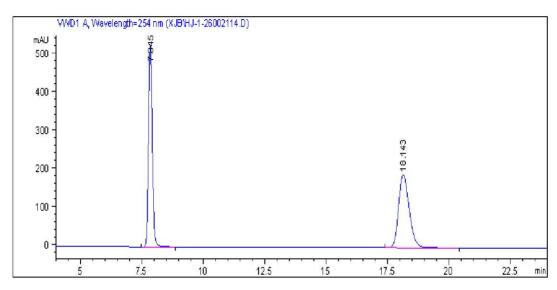




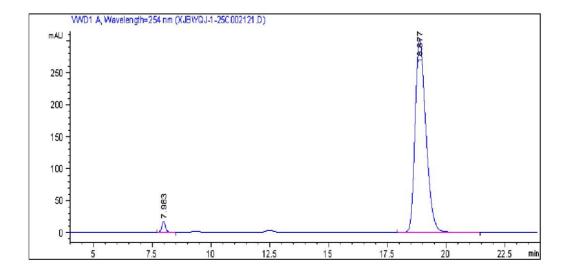


2. HPLC spectra of compounds 3aa-hp, 3bb-3gb

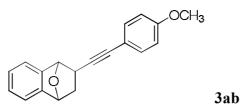


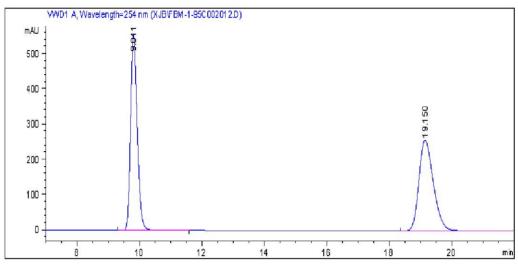


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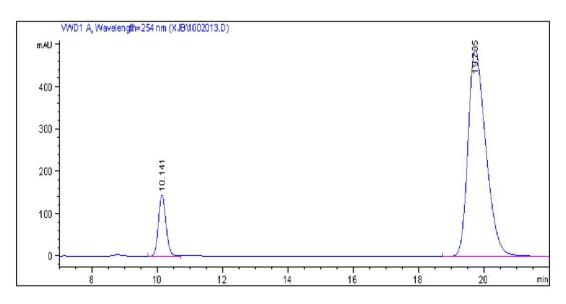


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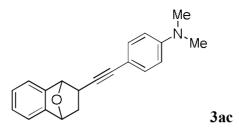


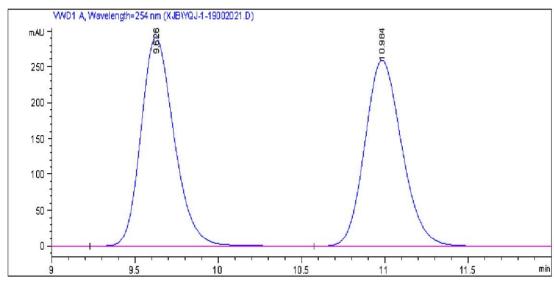


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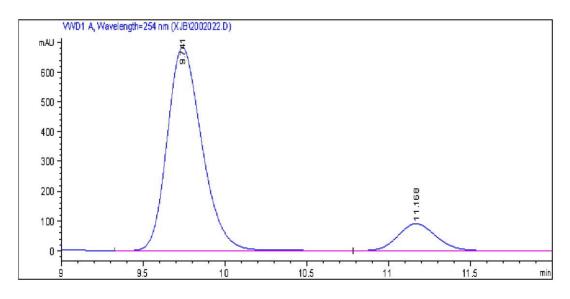


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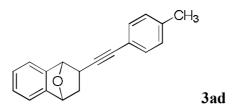


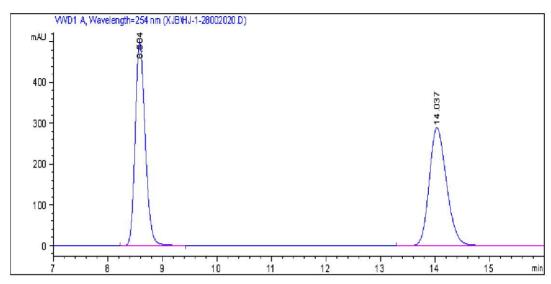


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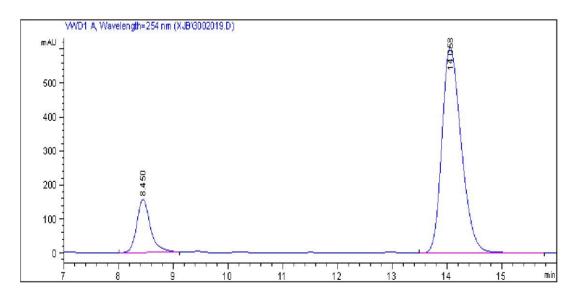


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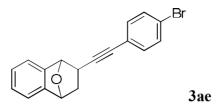


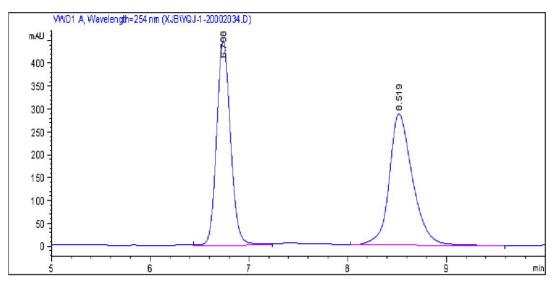


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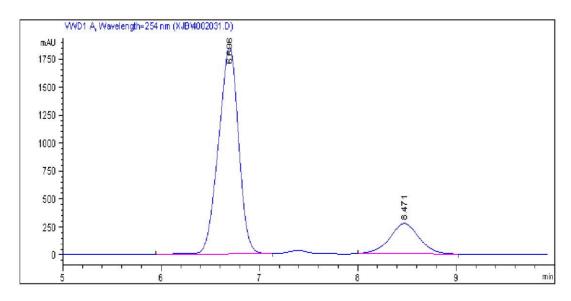


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2	14.058	BBA	0.3769	1.48829e4	605.12030	84.6836

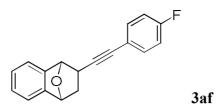


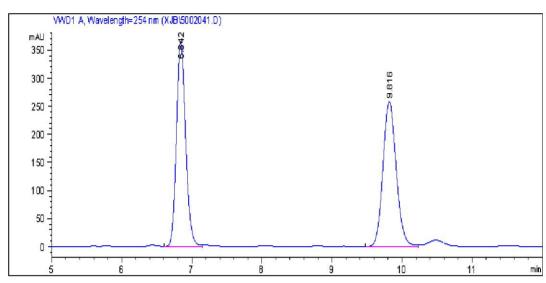


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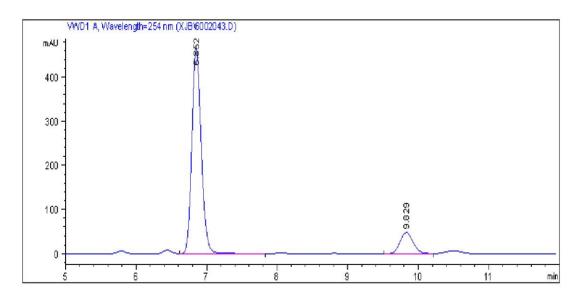


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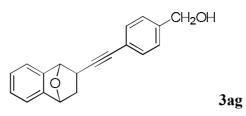


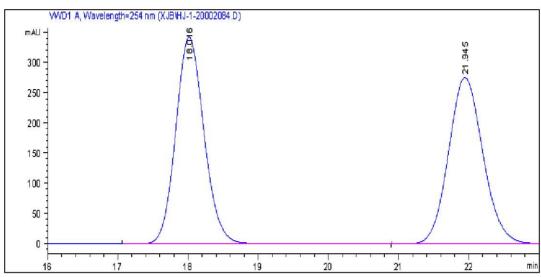


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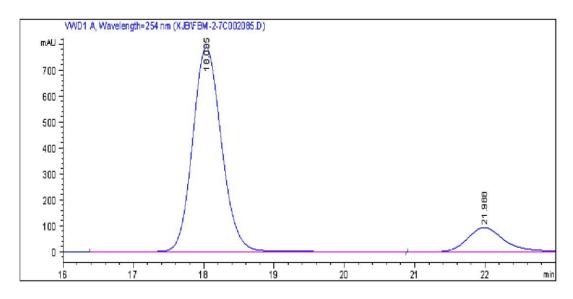


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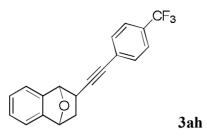


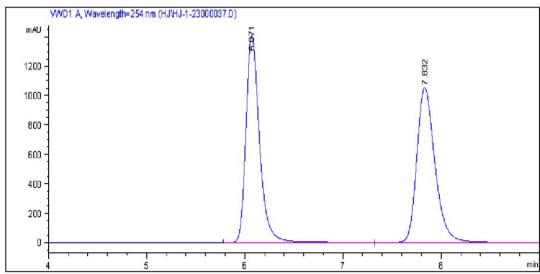


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	2	21.945	ВВ	0.5265	9422.53809	275.87604	49.4601

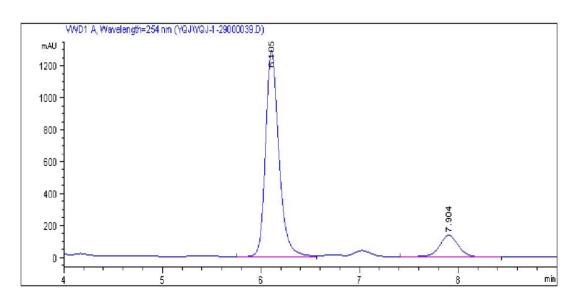


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2	21.988	ВВ	0.5661	3461.93506	93.91252	13.3154

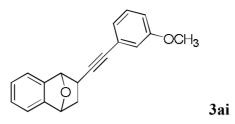


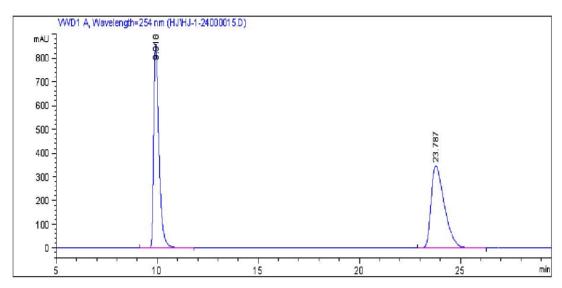


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2	7.832	BB	0.1976	1.36040e4	1053.80591	49.9970

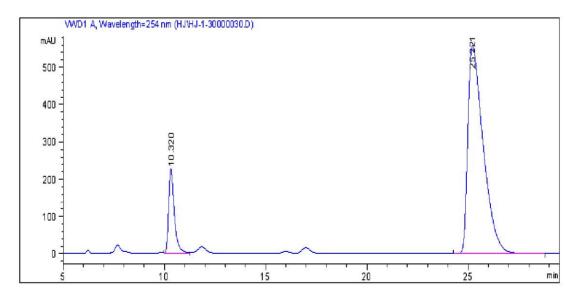


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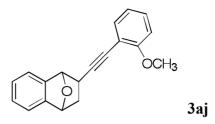


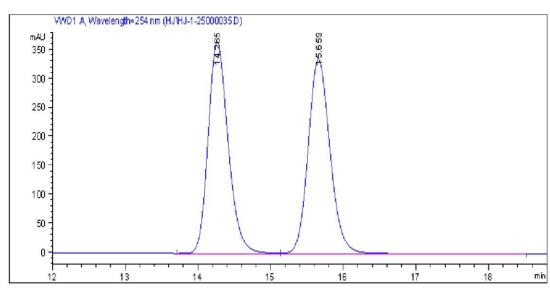


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1	9.918	ВВ	0.2706	1.54450e4	859.70258	49.4500
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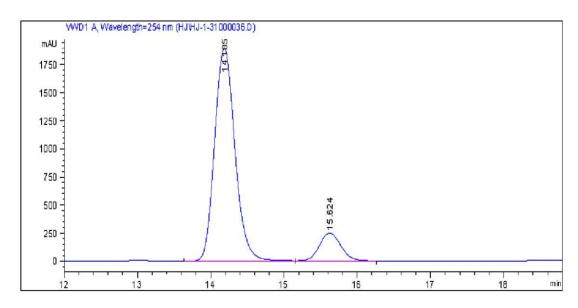


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-	[-	I	-				I
	1	10.320	VV	0.2952	4483.04639	227.17894	13.1806
	2	25.221	ВВ	0.7957	2.95294e4	557.77087	86.8194

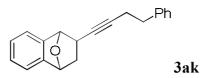


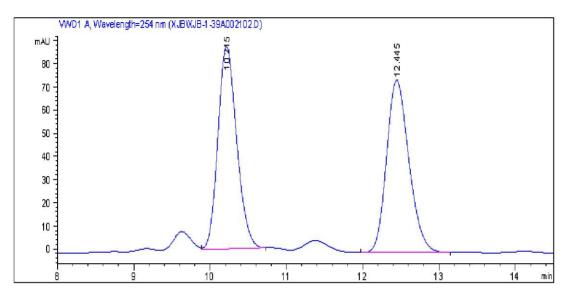


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2	15.659	VB	0.3224	7012.59766	336.16391	50.0836

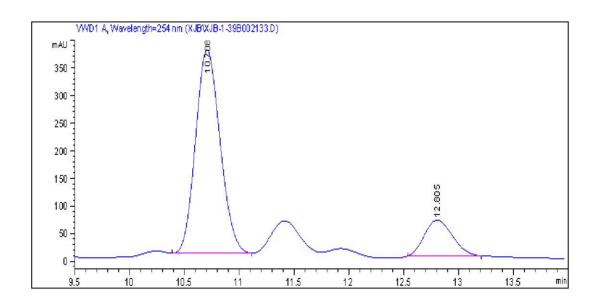


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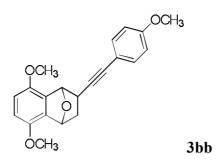


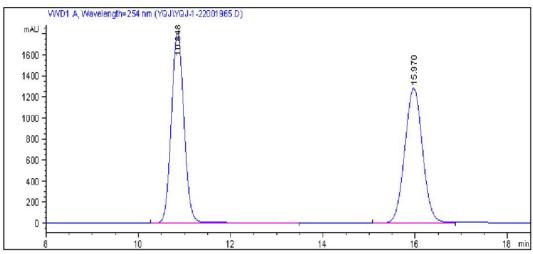


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2	12.445	ВВ	0.3145	1523.37061	74.51788	50.4414

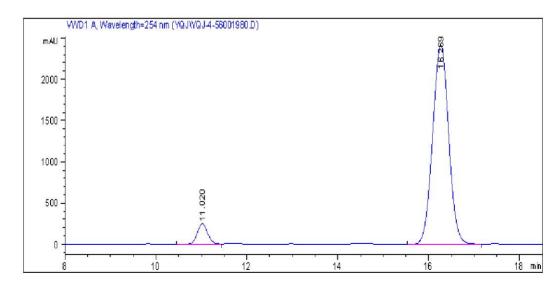


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	1	10.708	ВВ	0.2422	5708.27441	367.56067	83.3799
	2	12.805	BBA	0.2793	1137.82715	64.33704	16.6201

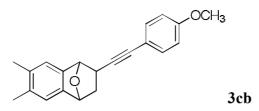


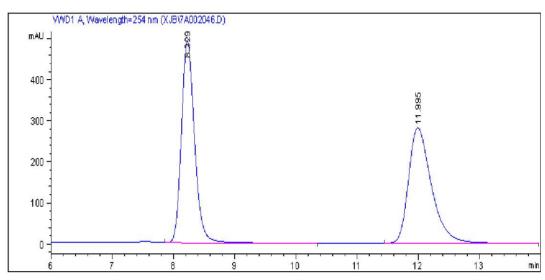


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1	10.848	ВВ	0.2983	3.44966e4	1801.99585	50.0788
2	15.970	BV	0.4166	3.43881e4	1283.54431	49.9212

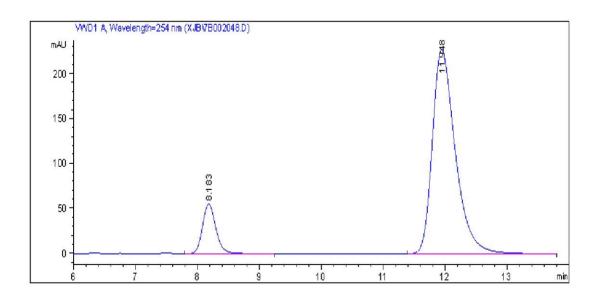


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	1 11.020	BV	0.2473	3947.83203	245.93077	6.2447	
	2 16.269	ΒV	0.3842	5.92715e4	2407.95898	93.7553	

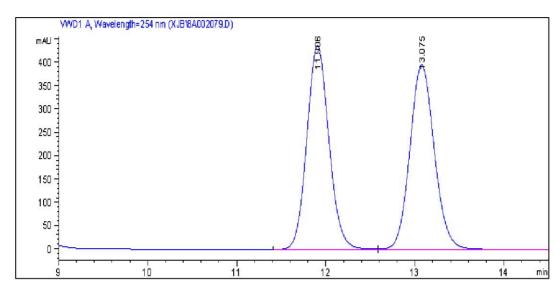




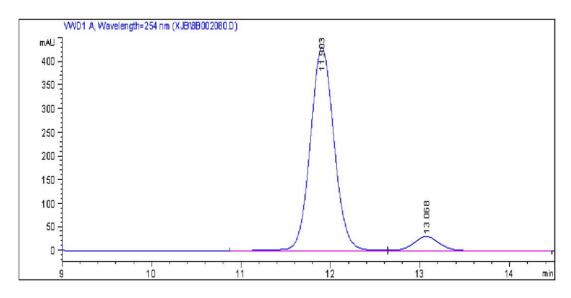
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2	11.995	VBA	0.3943	7325.55078	281.79889	49.9466



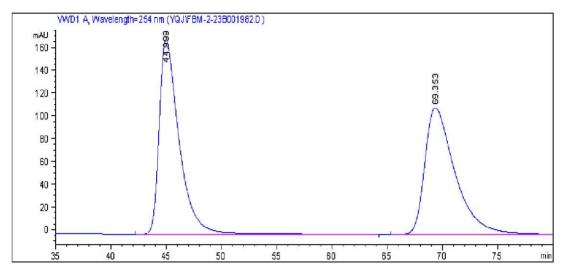
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2	11.948	BBA	0.3899	5840.89551	227.21033	87.4849



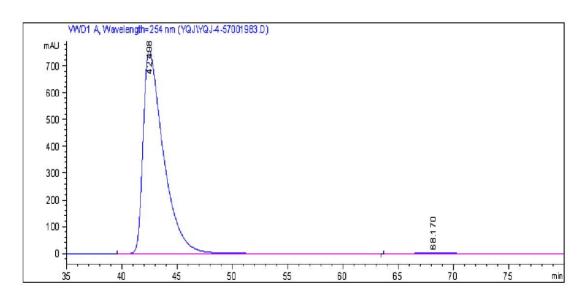
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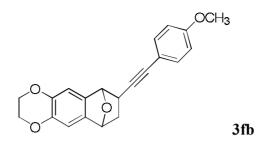
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	2	13.068	VВ	0.3159	630.30774	30.52766	7.3399

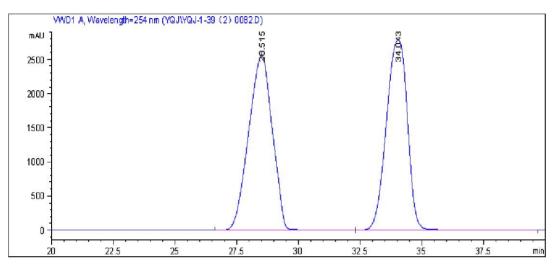


Pe	ak	RetTime	Type	Width	Area	Height	Area
#		[min]		[min]	[mAU*s]	[mA U]	8
	- [1	· []	
	1	44.999	ВВ	1.8534	2.14973e4	170.68402	50.3508
	2	69.353	BBA	2.8318	2.11978e4	111.21119	49.6492

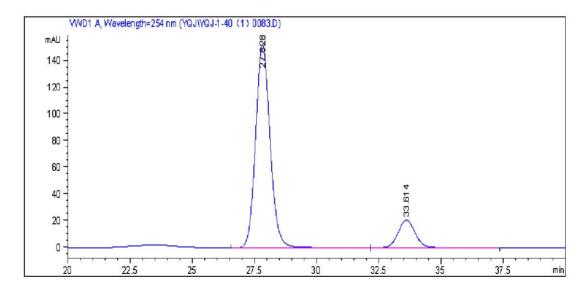


P	eak	RetTime	Type	Width	Area	Height	Area
#		[min]		[min]	[mAU*s]	[mAU]	8
	- 1						
	1	42.498	BB	1.8984	9.69757e4	757.09552	98.9724
	2	68.170	BBA	2.9986	1006.82593	4.81690	1.0276

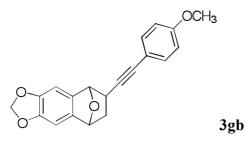


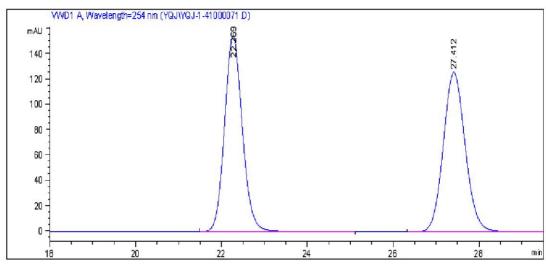


Peak	RetTime	Type	Width	Area	Height	Area
#	[min]		[min]	[mAU*s]	[mAU]	8
		[[-			[]	1
1	28.515	ВВ	1.0212	1.70264e5	2555.96802	50.8443
2	34.043	BV	0.9421	1.64609e5	2782.97803	49.1557

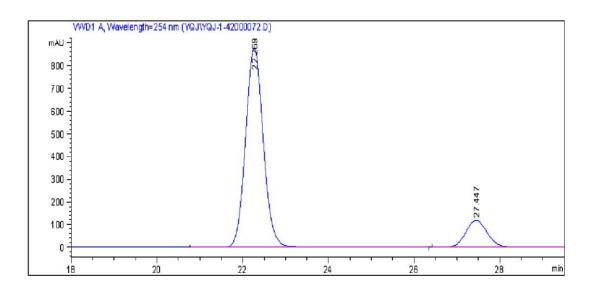


	Peal	RetTime	Type	Width	Area	Height	Area	
	#	[min]		[min]	[mAU*s]	[mAU]	용	
1			-					ĺ
	1	27.828	ВВ	0.6242	6174.51123	152.55223	86.3058	
	2	33.614	BB	0.7392	979.71710	20.58612	13.6942	





Peak	RetTime	Type	Width	Area	Height	Area
#	[min]		[min]	[mAU*s]	[mA U]	8
		[[-]
1	22.269	ВВ	0.4452	4457.87500	154.68486	49.9410
2	27.412	BBA	0.5497	4468.40283	125.99738	50.0590



Peak	RetTime	Type	Width	Area	Height	Area
#	[min]		[min]	[mAU*s]	[mA U]	8
1	22.269	ВВ	0.4451	2.53293e4	879.18060	85.7564
2	27.447	BBA	0.5468	4207.04834	119.18027	14.2436