

Supporting Information

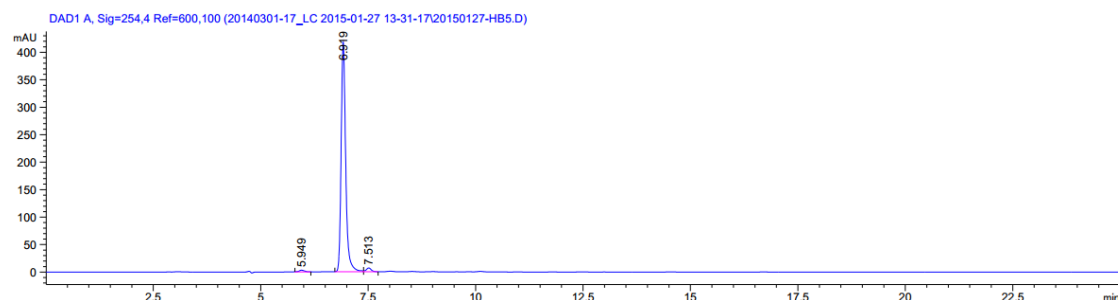
Synthesis, Biological Evaluation and Mechanisms Study of a Class of Benzylideneindanone Derivatives as Novel Anticancer Agents

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*Institute of Drug Synthesis and Pharmaceutical Process, School of Pharmaceutical Sciences, Sun
Yat-sen University, Guangzhou 510006, China*

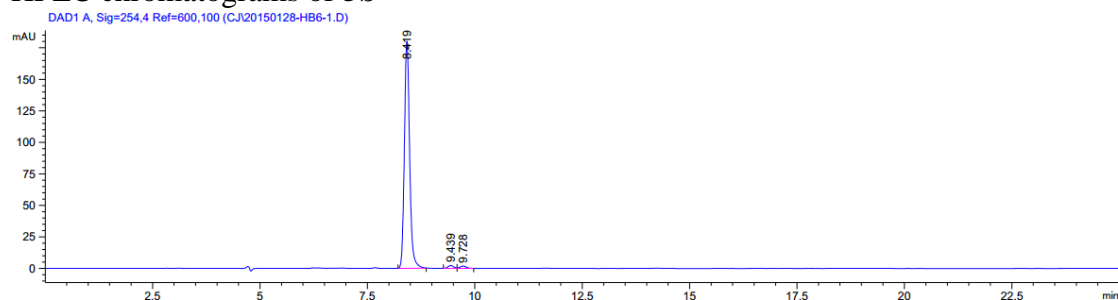
HPLC chromatograms of target compounds

HPLC chromatograms of **5a**



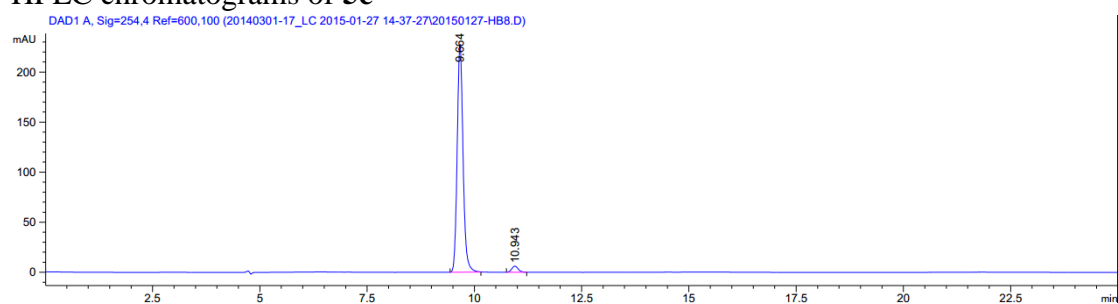
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1	5.949	BB	0.1308	28.18645	3.13816	0.8898
2	6.919	BV	0.1123	3083.09839	416.69141	97.3269
3	7.513	VB	0.1211	56.48975	6.92816	1.7833

HPLC chromatograms of **5b**



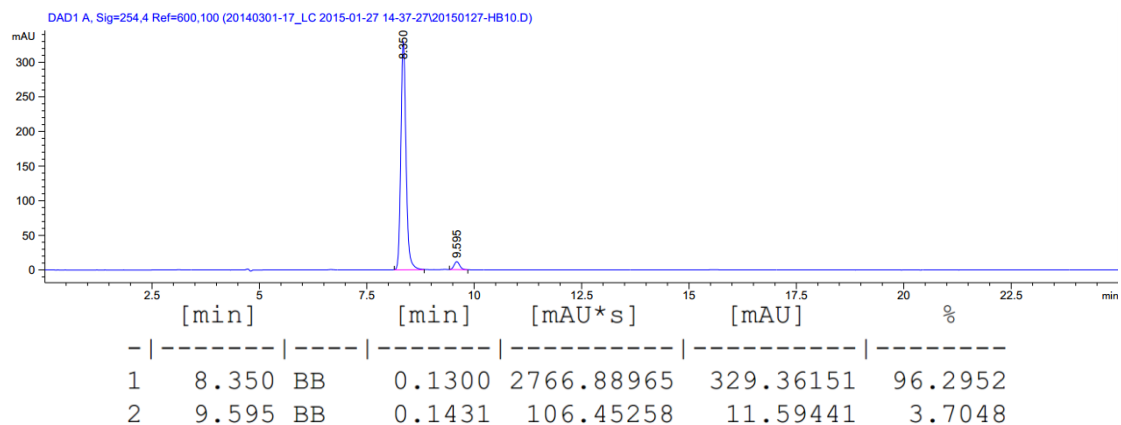
	[min]		[min]	[mAU*s]	[mAU]	%
1	8.419	BB	0.1313	1530.47546	179.85263	97.5303
2	9.439	BV	0.1387	20.55617	2.29023	1.3100
3	9.728	VB	0.1478	18.19886	1.86628	1.1597

HPLC chromatograms of **5c**

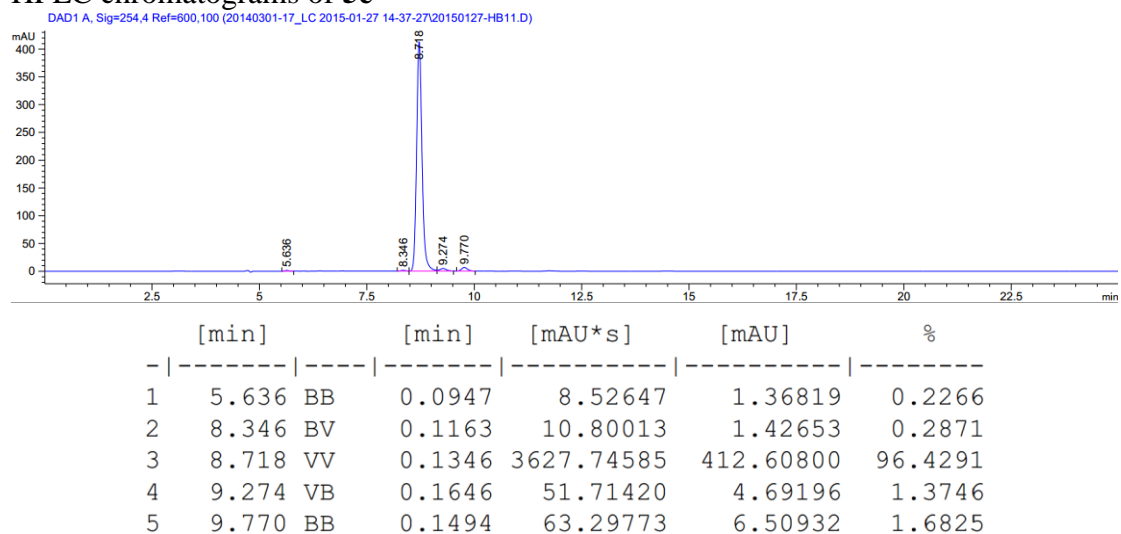


	[min]		[min]	[mAU*s]	[mAU]	%
1	9.664	BB	0.1473	2167.92749	227.31937	97.1078
2	10.943	BB	0.1622	64.56911	6.16702	2.8922

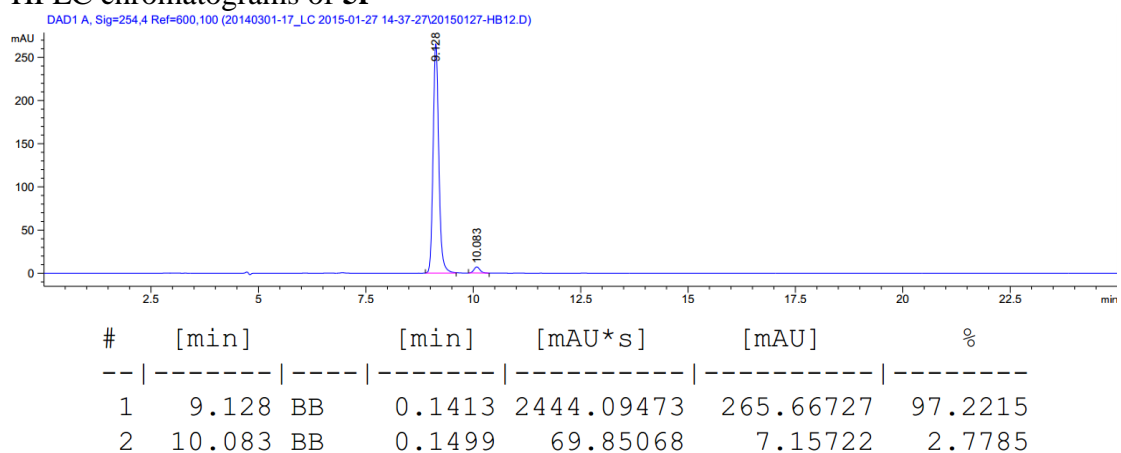
HPLC chromatograms of **5d**



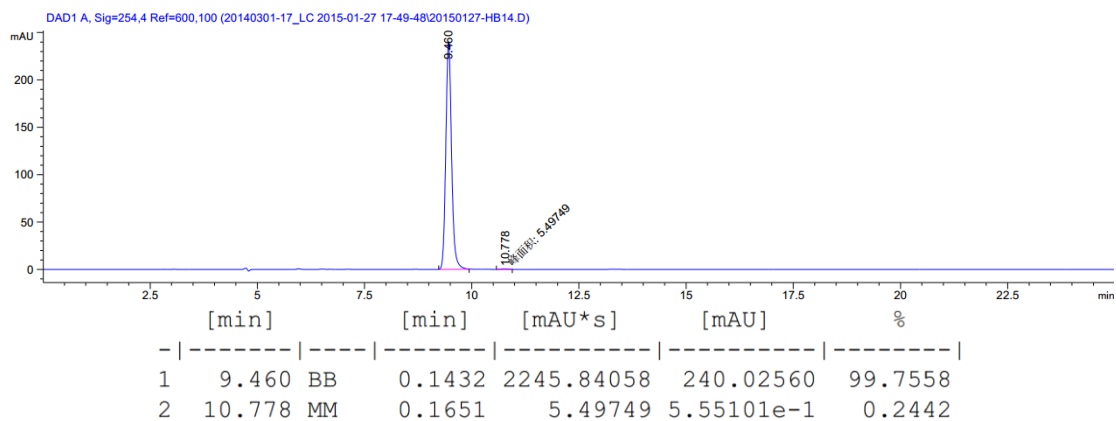
HPLC chromatograms of **5e**



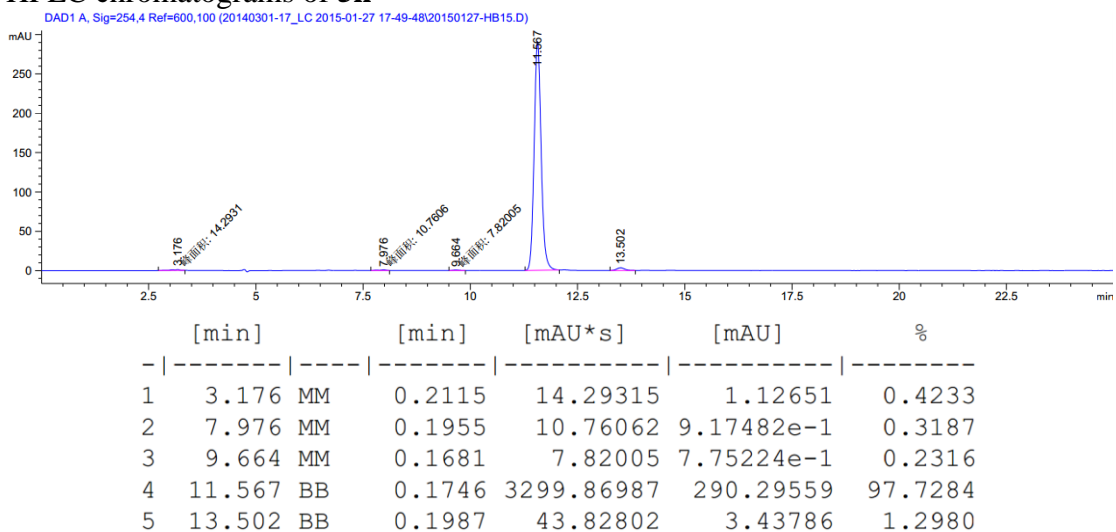
HPLC chromatograms of **5f**



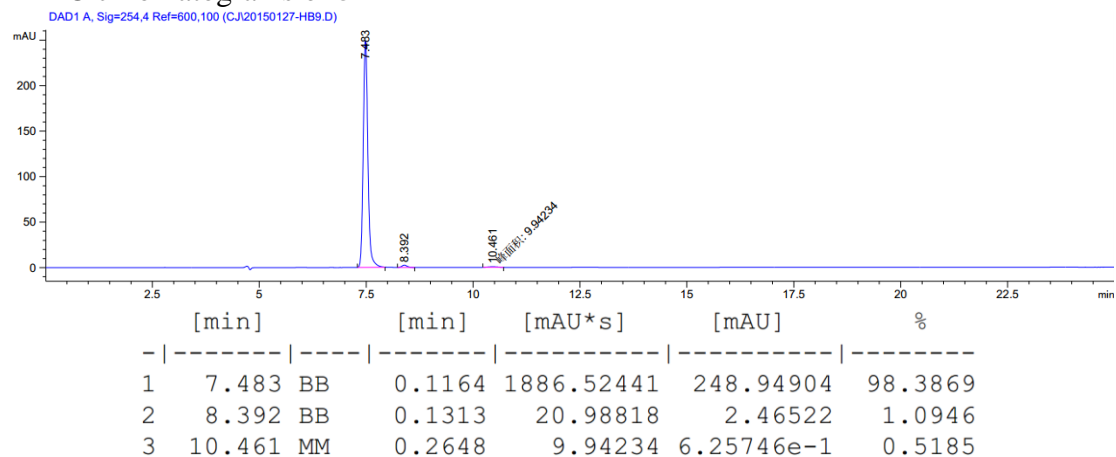
HPLC chromatograms of **5g**



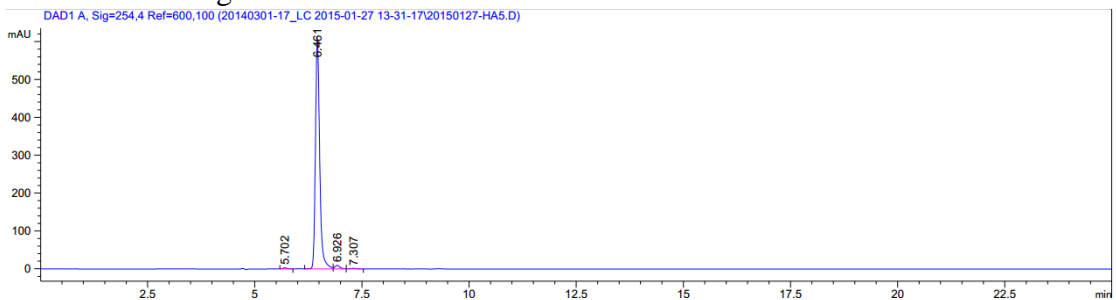
HPLC chromatograms of 5h



HPLC chromatograms of 5i

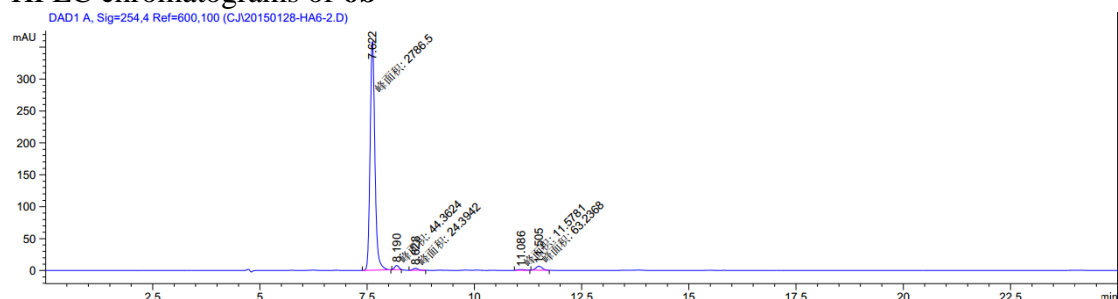


HPLC chromatograms of 6a



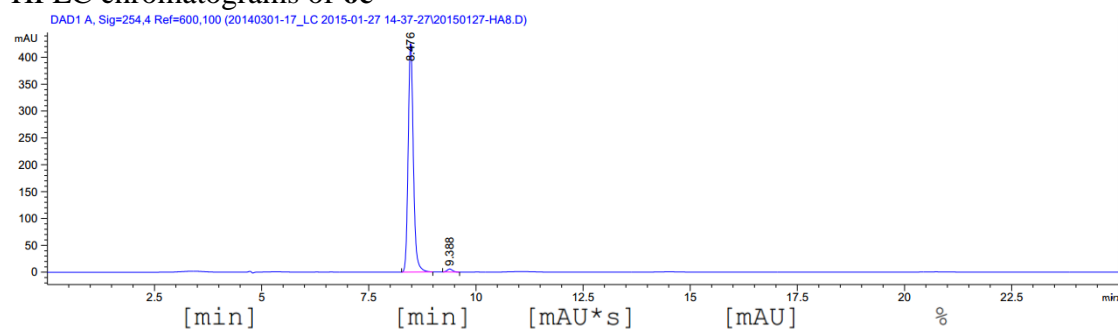
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1	5.702	BB	0.1082	20.75567	2.87731	0.4784
2	6.461	VV	0.1052	4218.76172	606.12622	97.2378
3	6.926	VB	0.1234	79.72931	9.55048	1.8377
4	7.307	BB	0.1888	19.35796	1.45903	0.4462

HPLC chromatograms of 6b



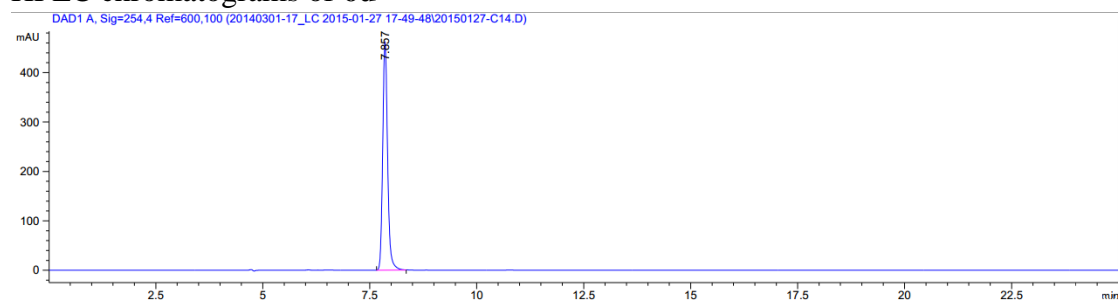
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1	7.622	MM	0.1297	2786.49927	358.09259	95.1001
2	8.190	MM	0.1141	44.36235	6.47758	1.5140
3	8.628	MM	0.1360	24.39417	2.99031	0.8325
4	11.086	MM	0.1629	11.57808	1.18474	0.3951
5	11.505	MM	0.1742	63.23684	6.05195	2.1582

HPLC chromatograms of 6c



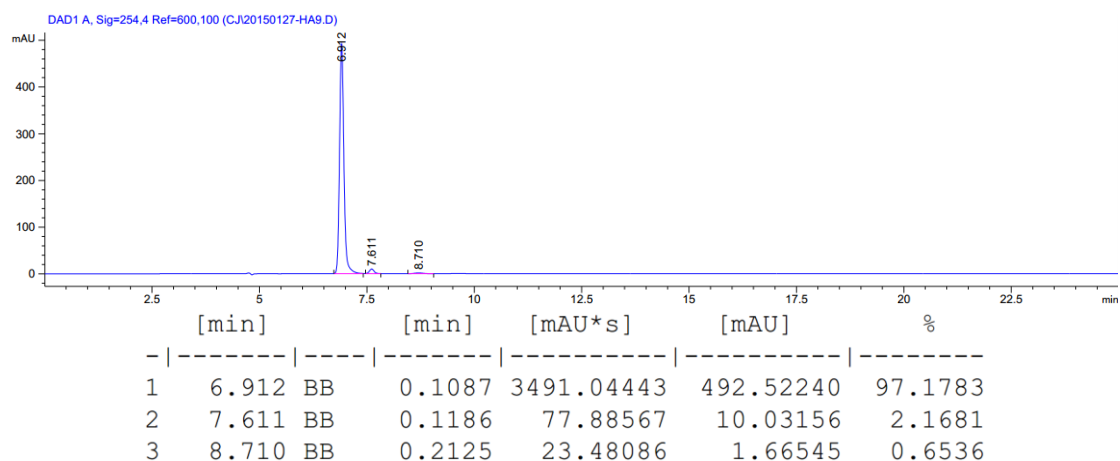
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1	8.476	BB	0.1284	3591.13208	425.67303	98.6347
2	9.388	BB	0.1369	49.70747	5.63316	1.3653

HPLC chromatograms of 6d

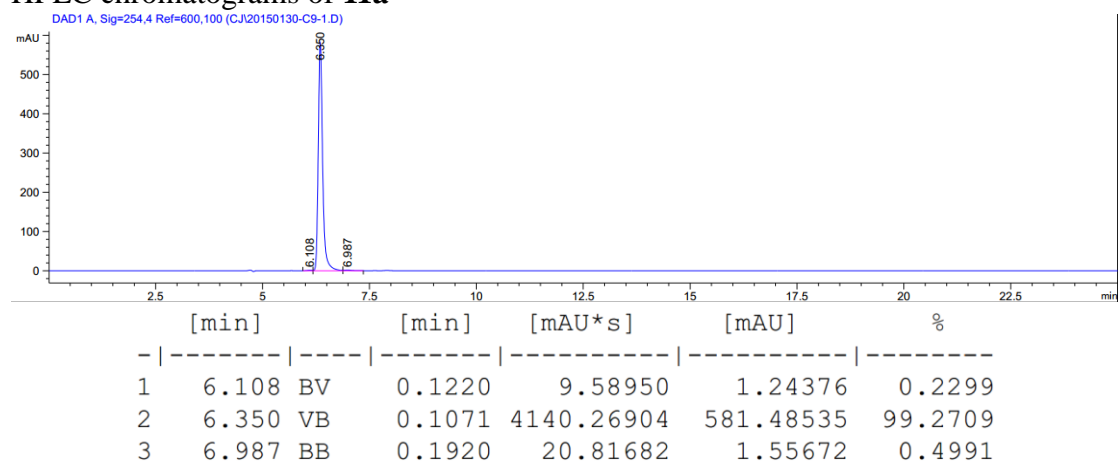


#	[min]		[min]	[mAU*s]	[mAU]	%
1	7.857	BB	0.1211	3676.74585	460.75665	100.0000

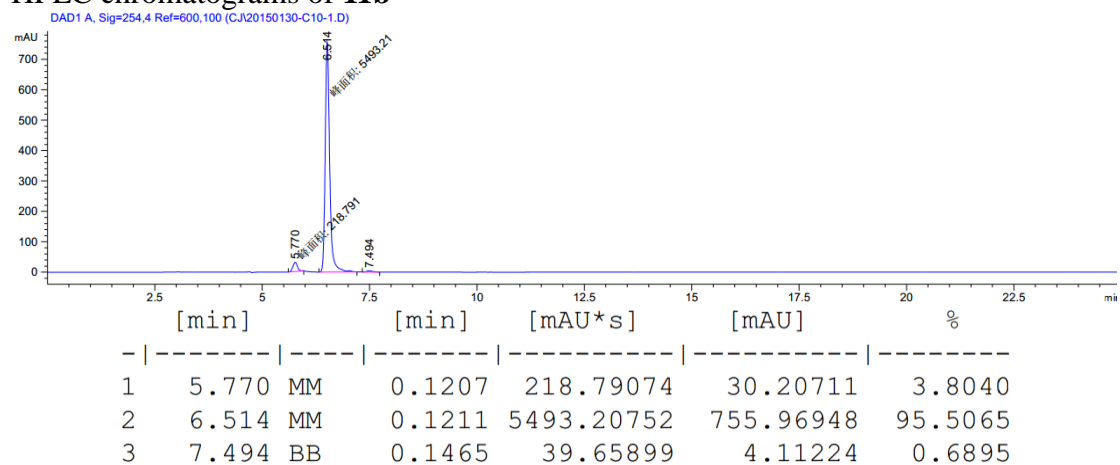
HPLC chromatograms of 6e



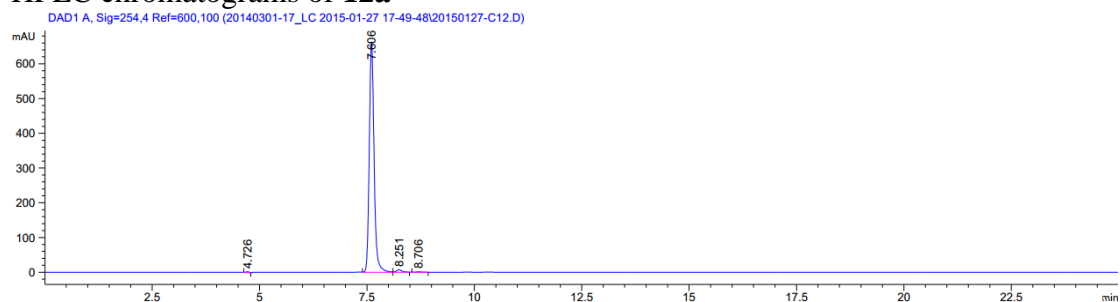
HPLC chromatograms of 11a



HPLC chromatograms of 11b



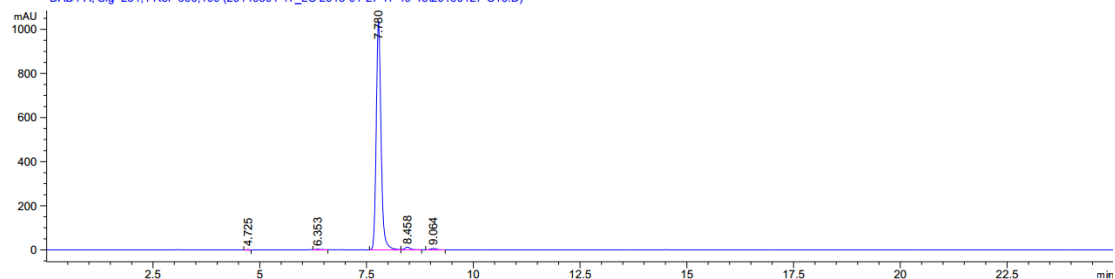
HPLC chromatograms of 12a



	[min]		[min]	[mAU*s]	[mAU]	%
1	4.726	BV	0.0871	14.23811	2.54985	0.2715
2	7.606	VV	0.1185	5153.48779	664.05670	98.2827
3	8.251	VB	0.1364	64.90562	7.11895	1.2378
4	8.706	BB	0.1470	10.90375	1.10605	0.2079

HPLC chromatograms of 12b

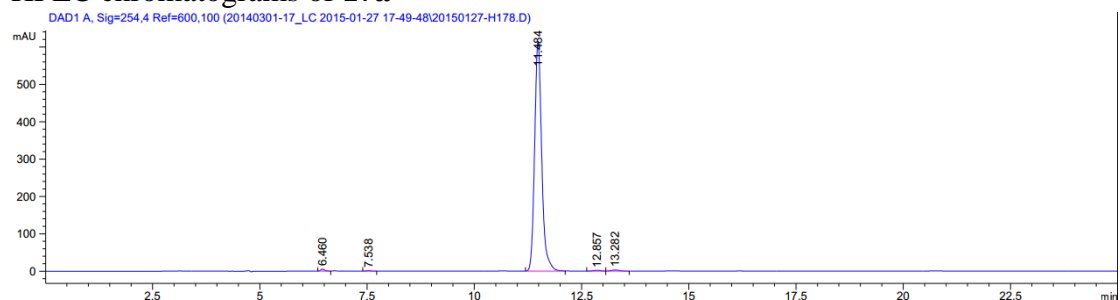
DAD1 A, Sig=254,4 Ref=600,100 (20140301-17_LC 2015-01-27 17-49-48\20150127-C13.D)



	[min]		[min]	[mAU*s]	[mAU]	%
1	4.725	BV	0.0880	14.53700	2.57028	0.1740
2	6.353	VV	0.1345	25.89314	2.73330	0.3100
3	7.780	BV	0.1220	8149.89795	1033.83801	97.5576
4	8.458	VB	0.1382	109.37187	11.79230	1.3092
5	9.064	BB	0.1350	54.23836	6.14055	0.6493

HPLC chromatograms of 17a

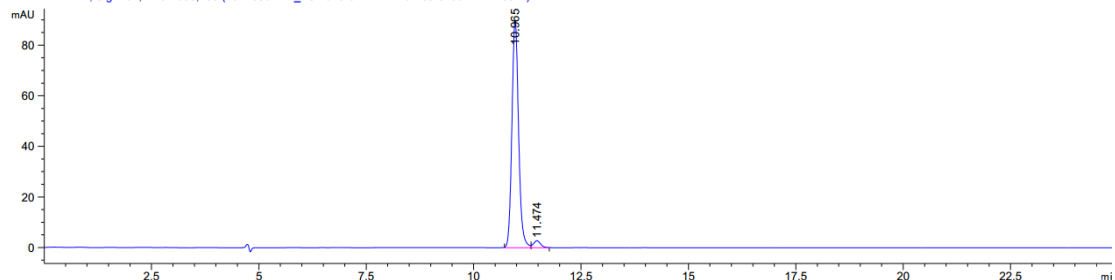
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	[min]		[min]	[mAU*s]	[mAU]	%
1	6.460	BB	0.0968	34.22178	5.33618	0.4766
2	7.538	BB	0.1124	8.20953	1.13493	0.1143
3	11.484	BB	0.1767	7078.66699	613.24799	98.5740
4	12.857	BV	0.1861	23.53583	1.98843	0.3277
5	13.282	VB	0.1938	36.43209	2.91480	0.5073

HPLC chromatograms of 17b

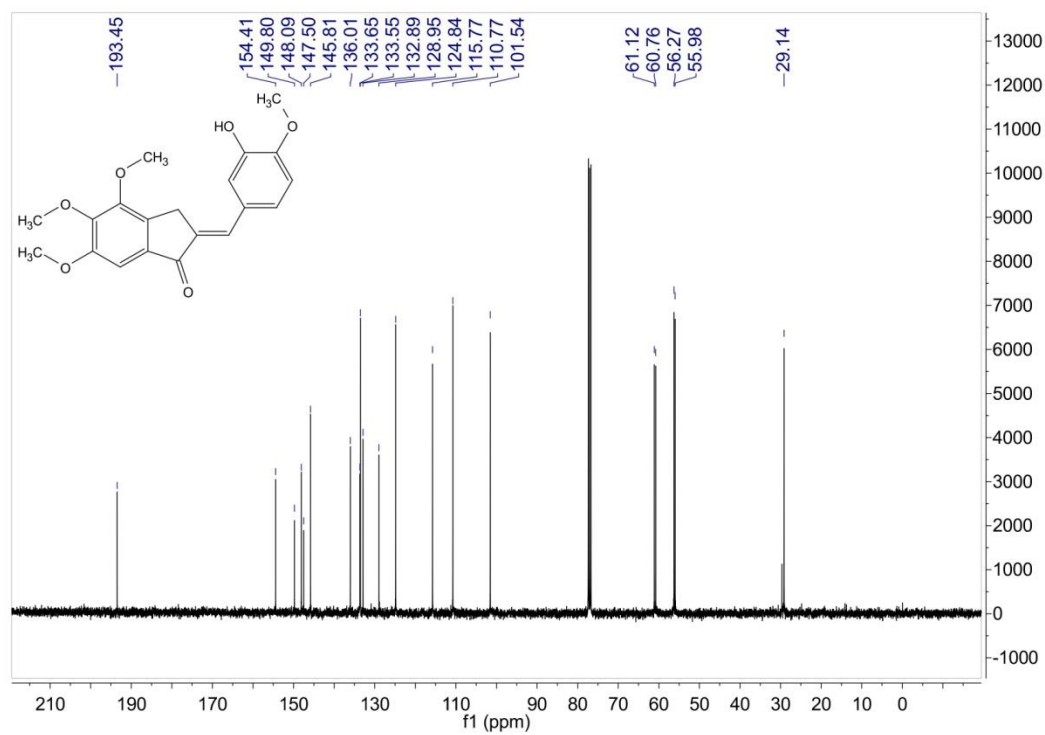
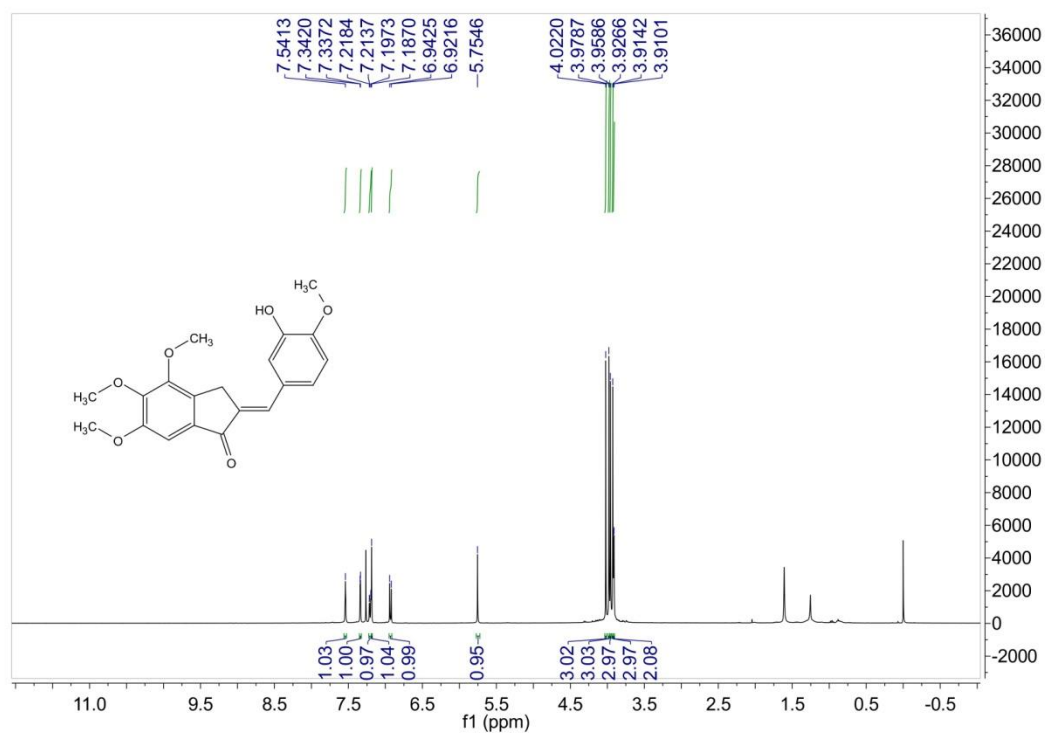
DAD1 A, Sig=254,4 Ref=600,100 (20140301-17_LC 2015-01-27 17-49-48\20150127-H189.D)



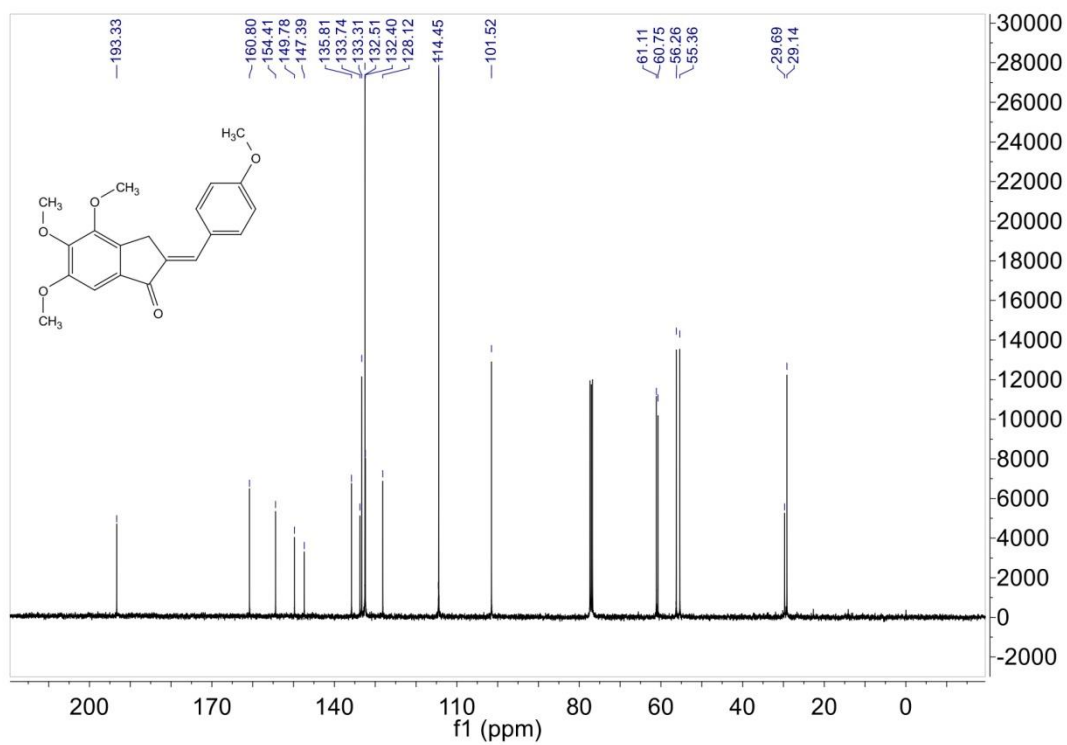
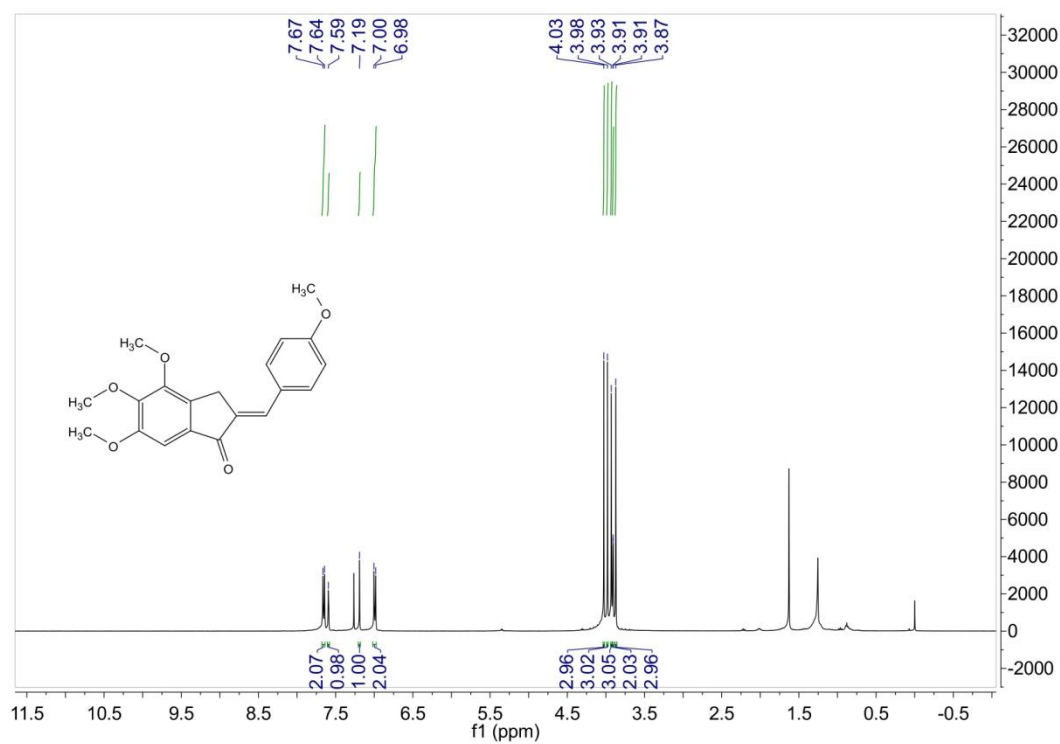
	[min]		[min]	[mAU*s]	[mAU]	%
1	10.965	BB	0.1655	968.28186	89.99854	96.8336
2	11.474	BB	0.1761	31.66253	2.75532	3.1664

NMR spectra of typical compounds

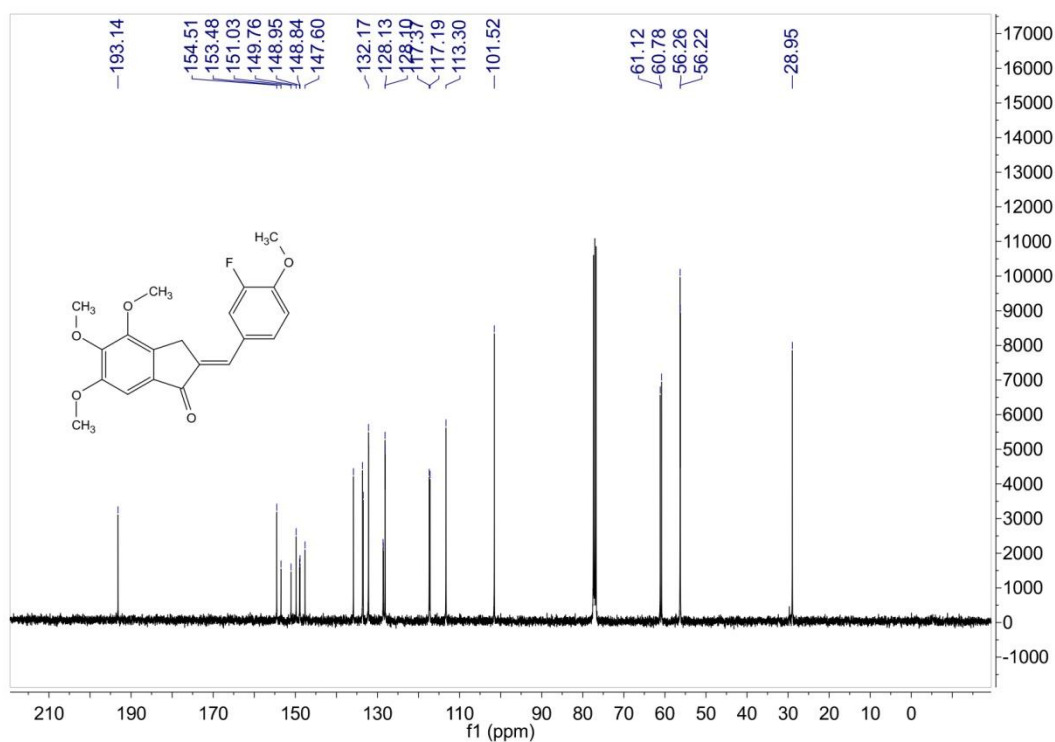
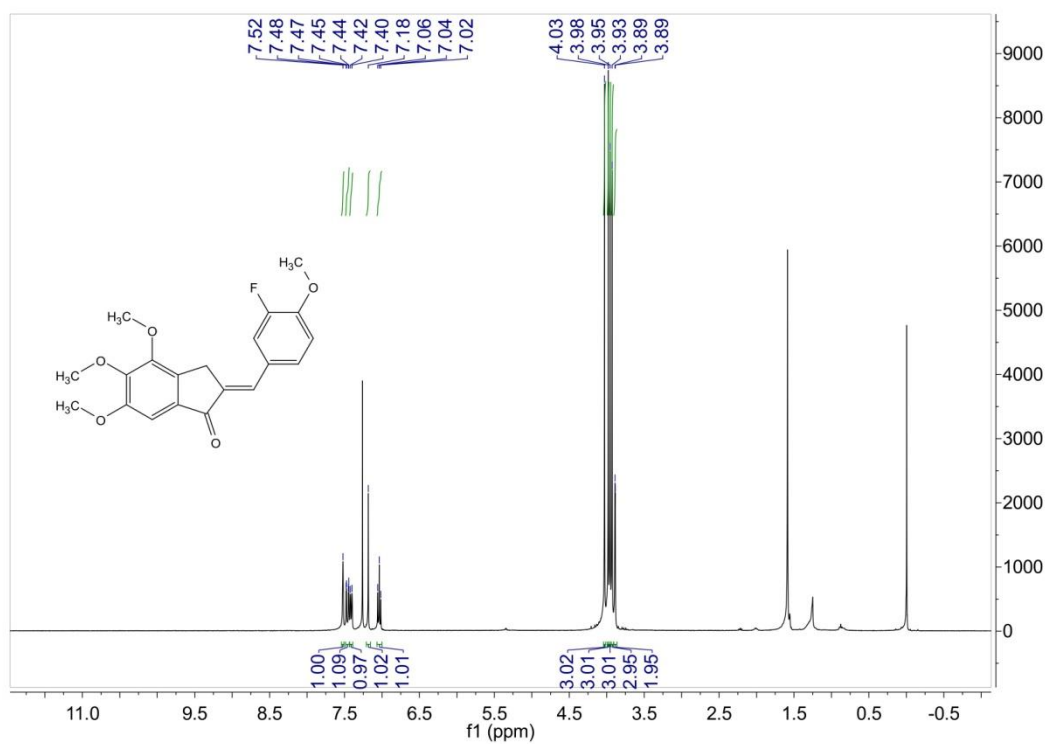
5a



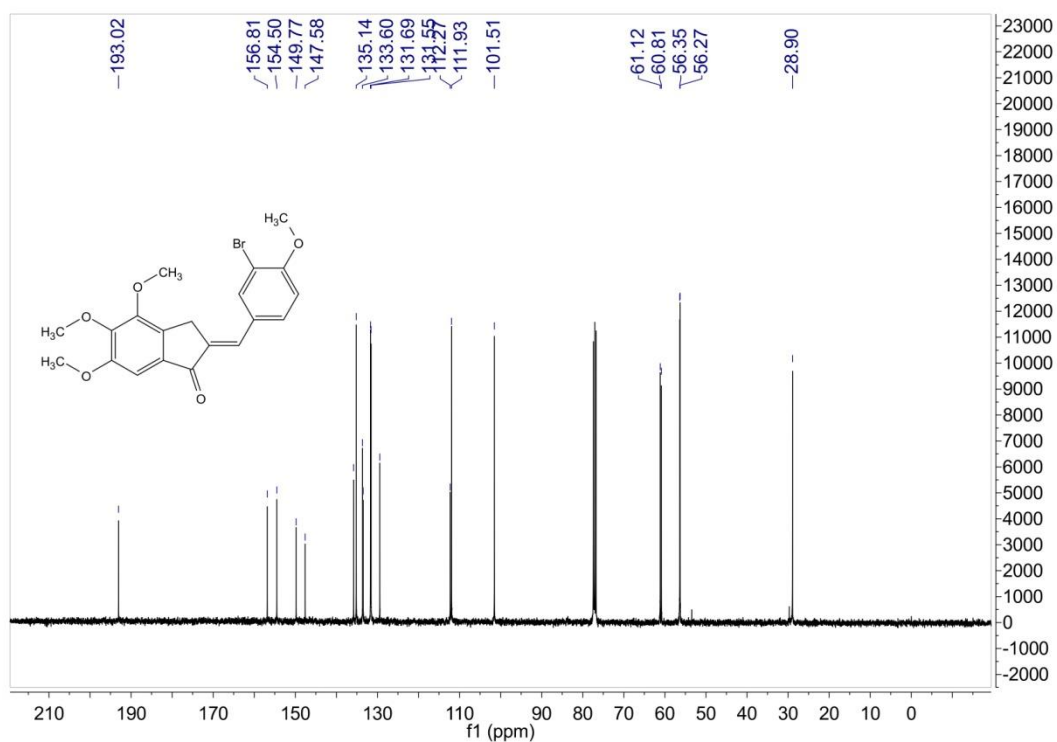
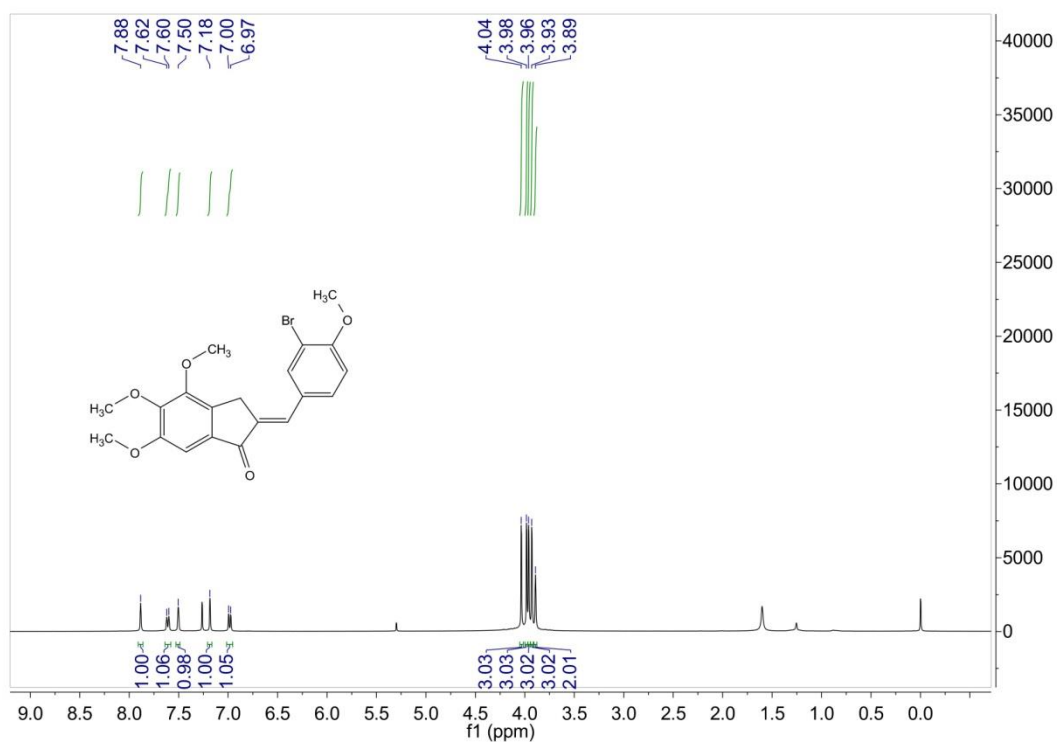
5c



5g



5h



5i

