

Supporting information

Cascade reactions of glycine Schiff bases and chiral phase transfer catalysts in the synthesis of α -amino acids 3-substituted phthalides and isoindolinones

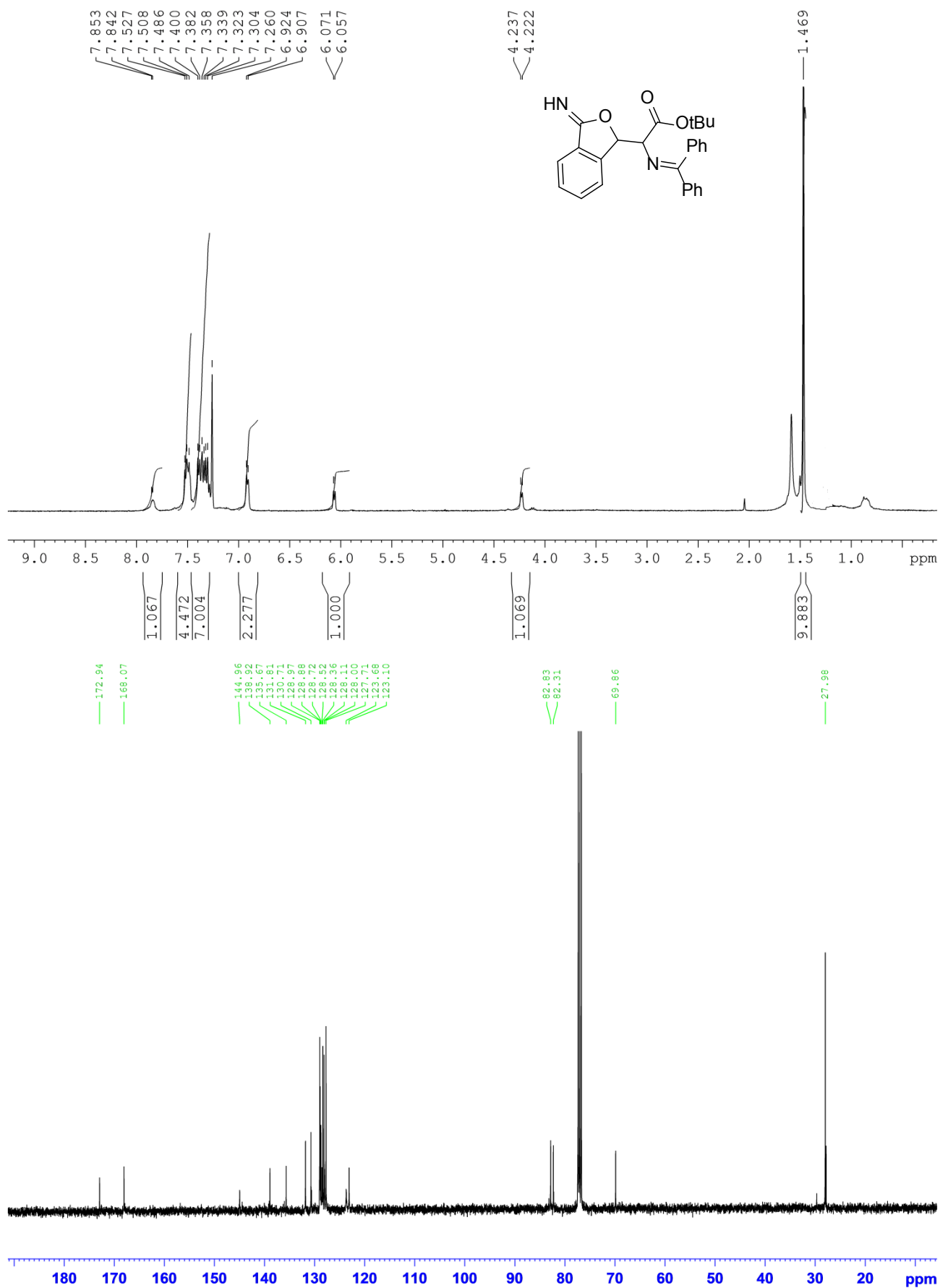
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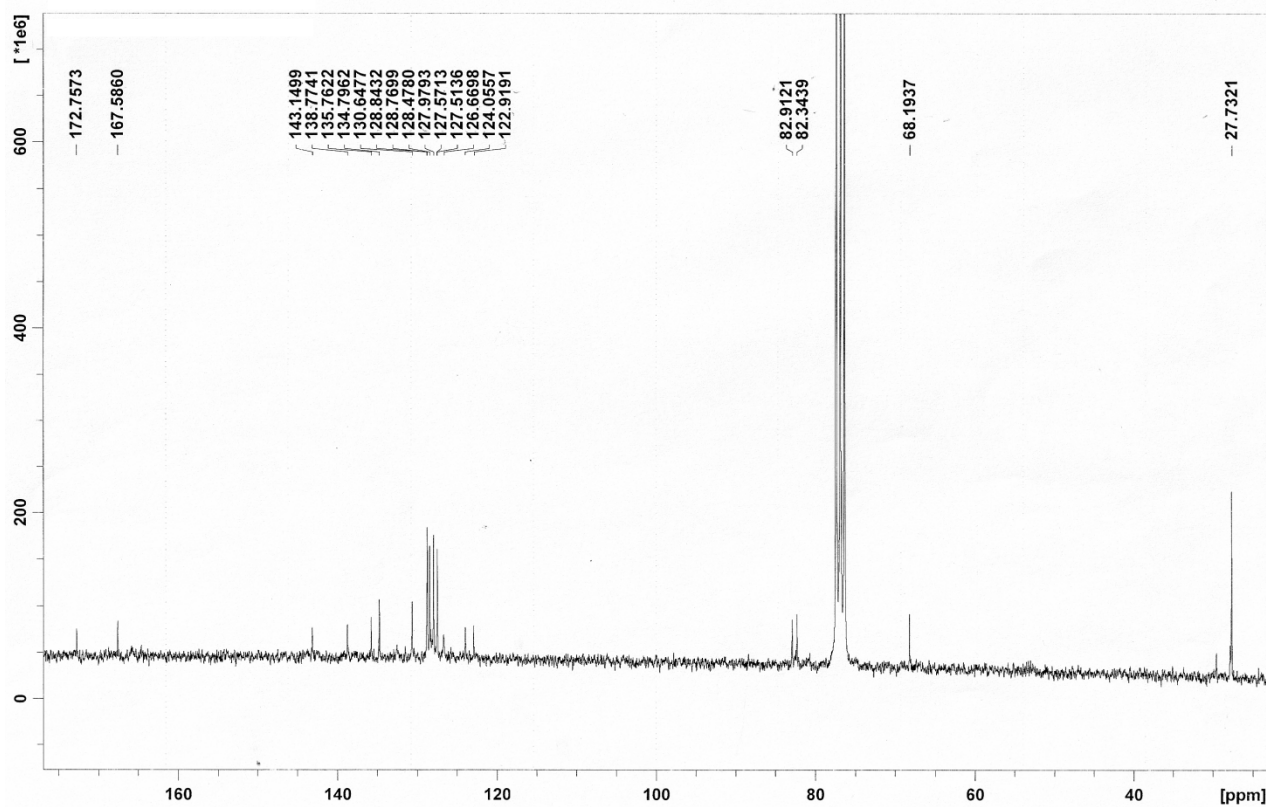
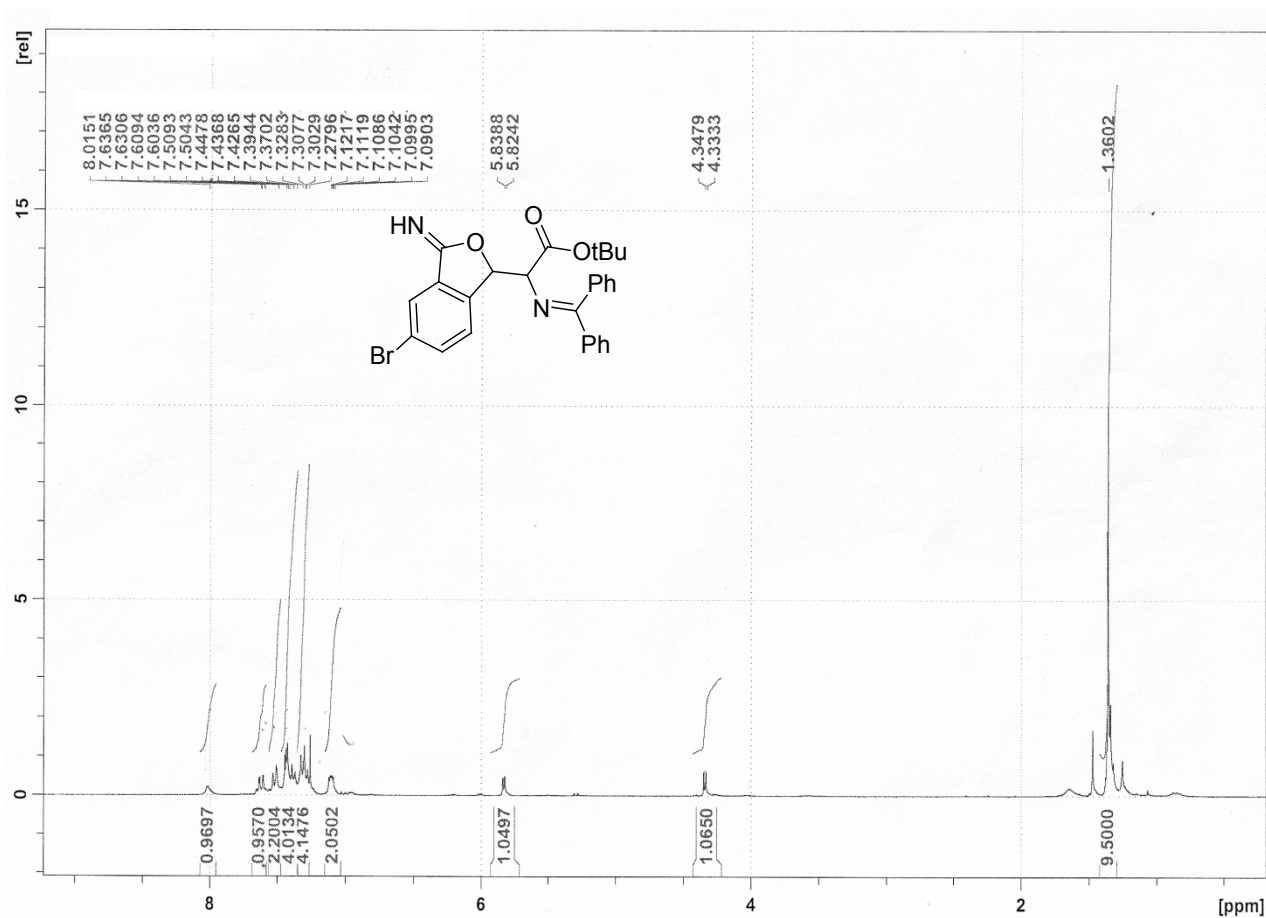
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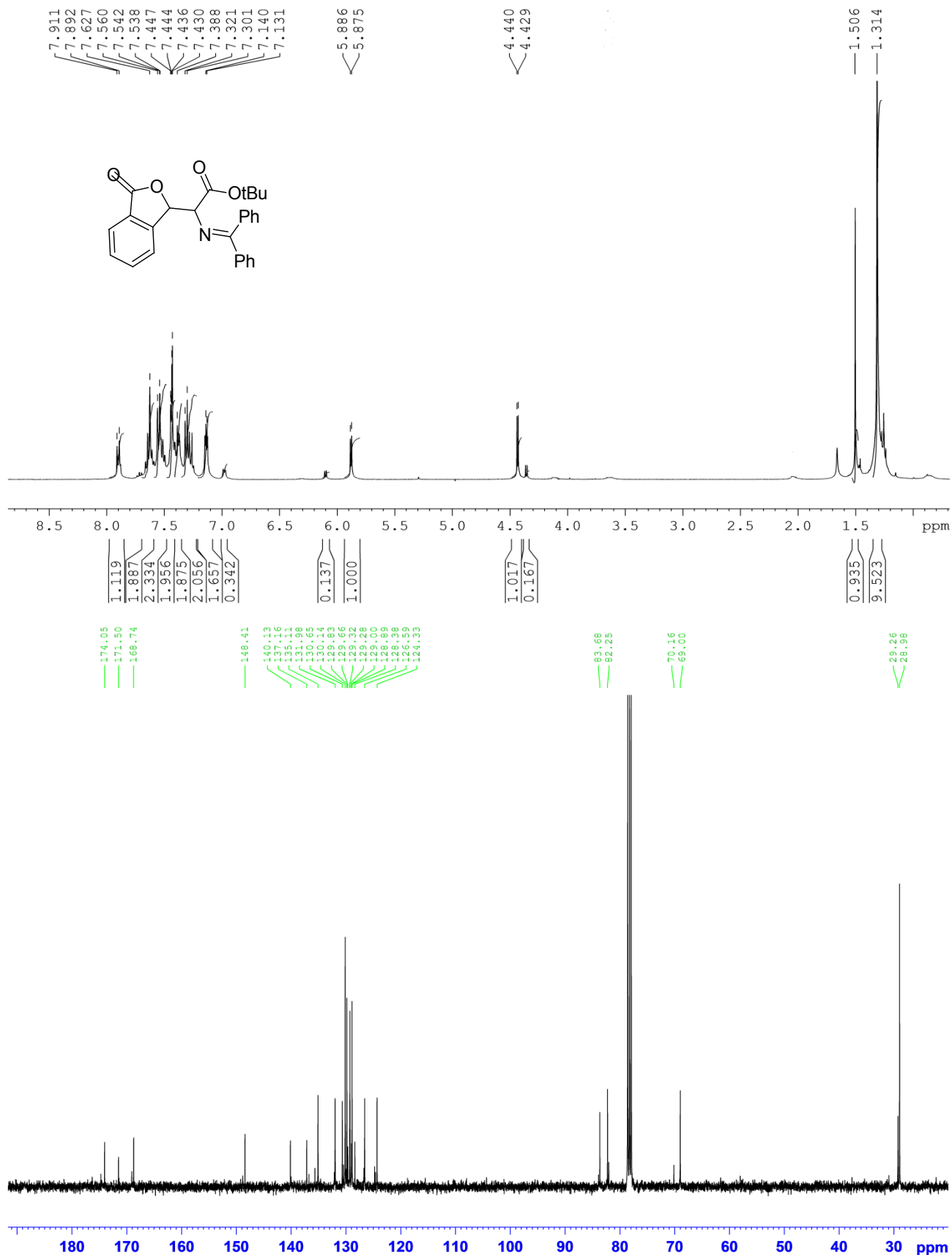
Major diastereomer



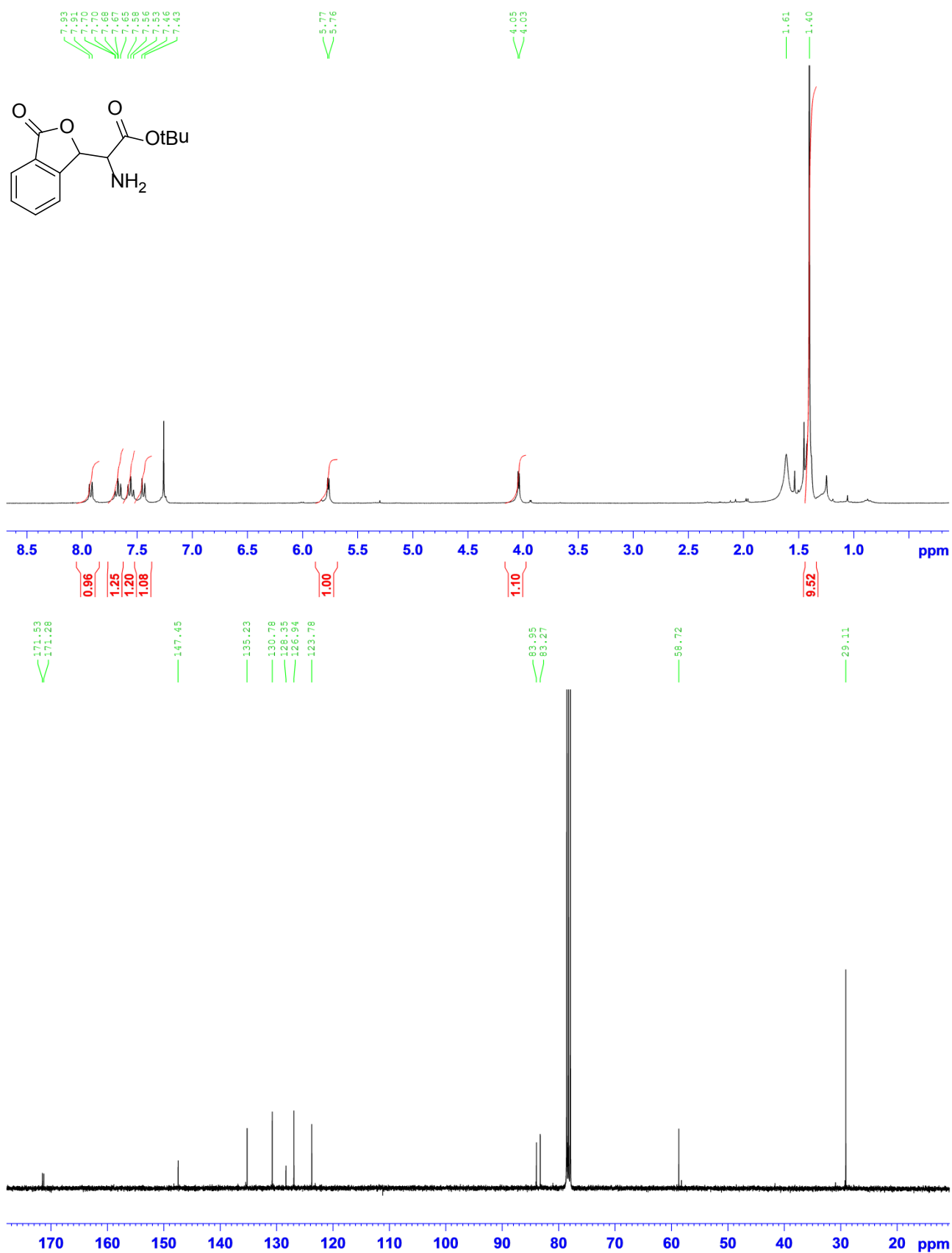
Major diastereomer



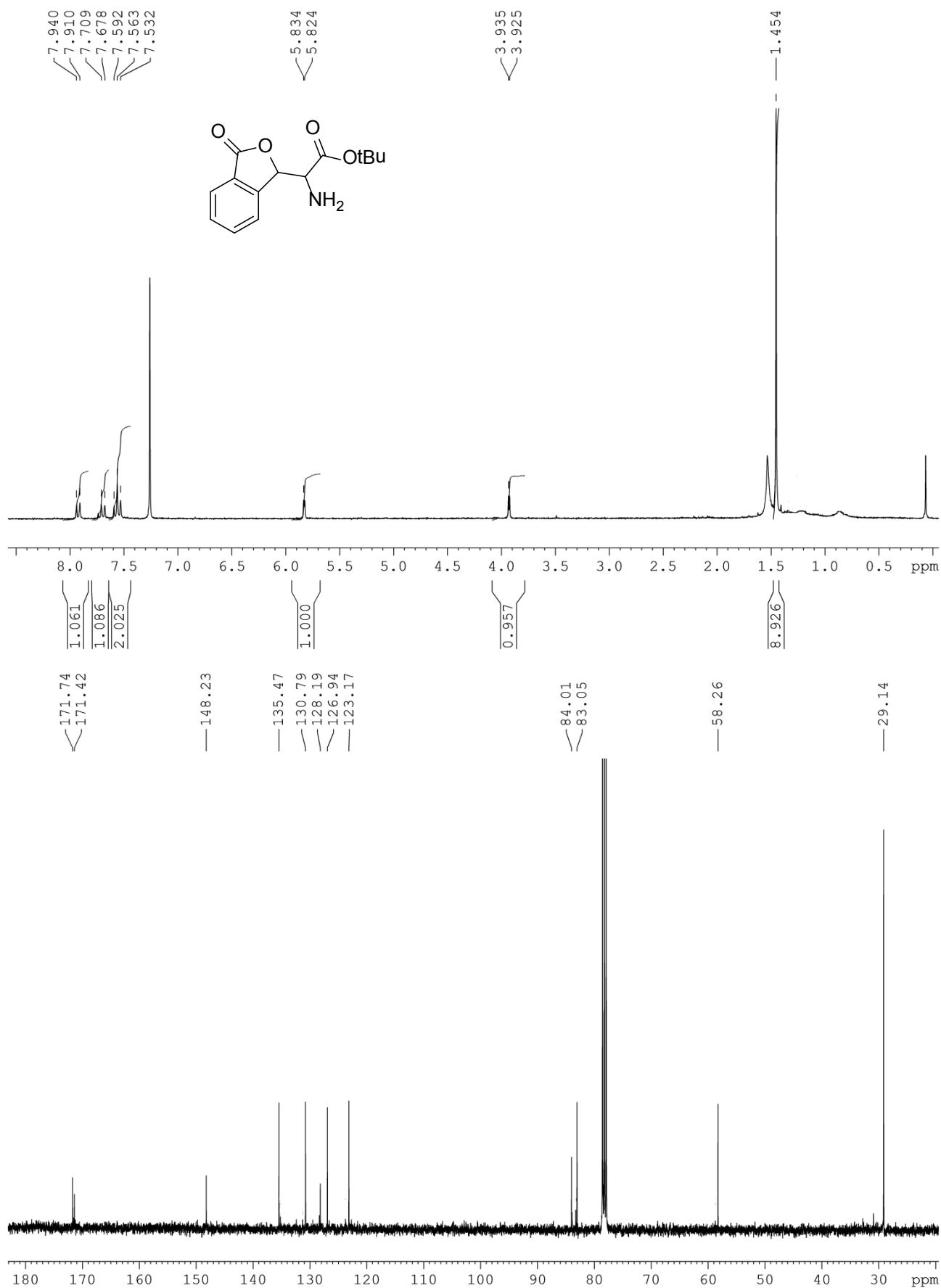
Mixture of diastereomers



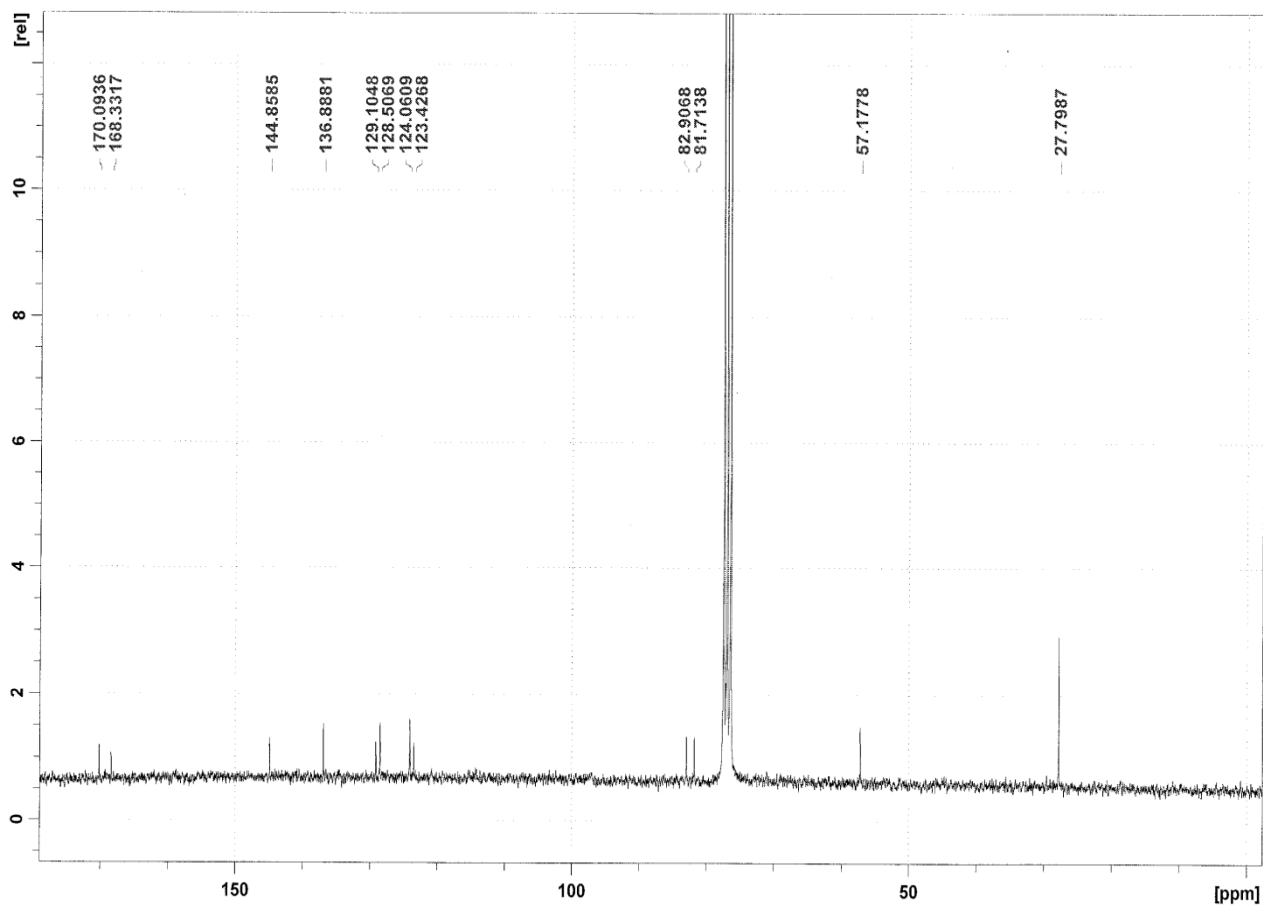
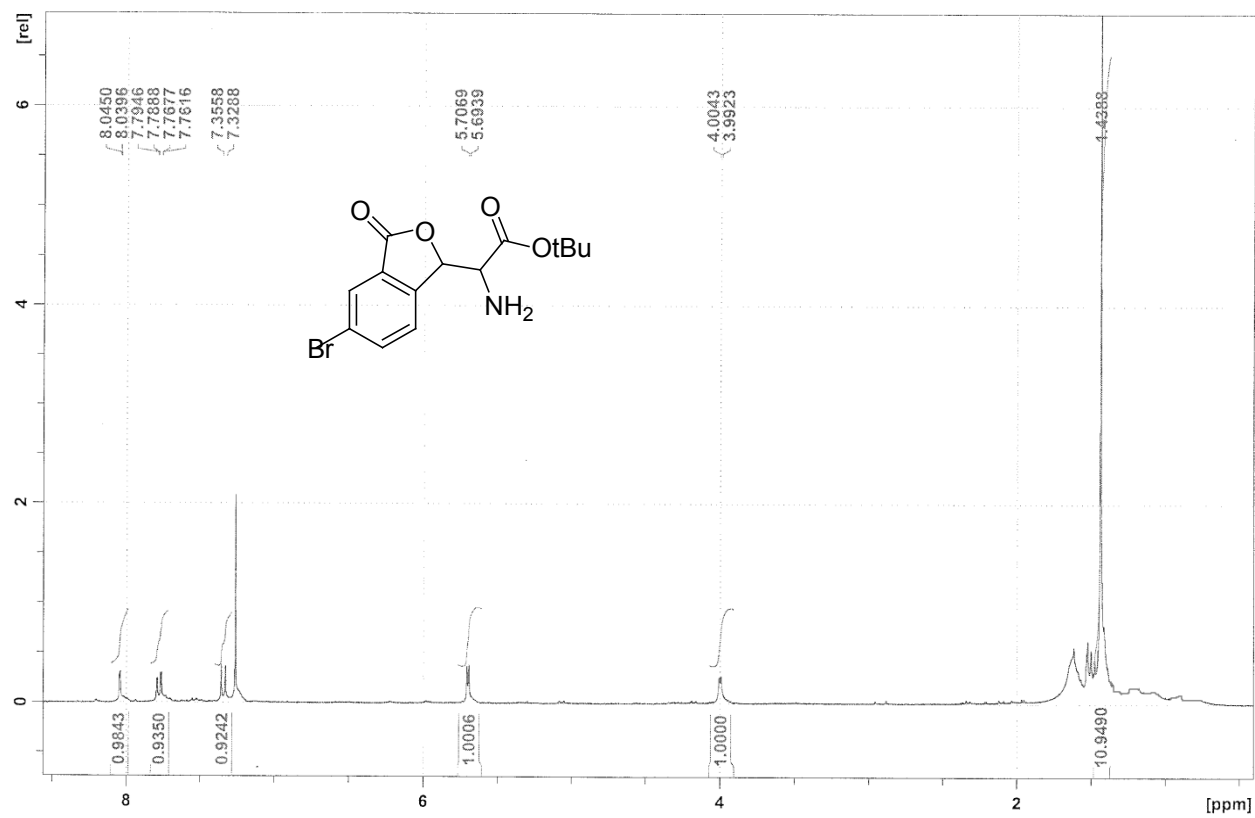
Single diastereomer



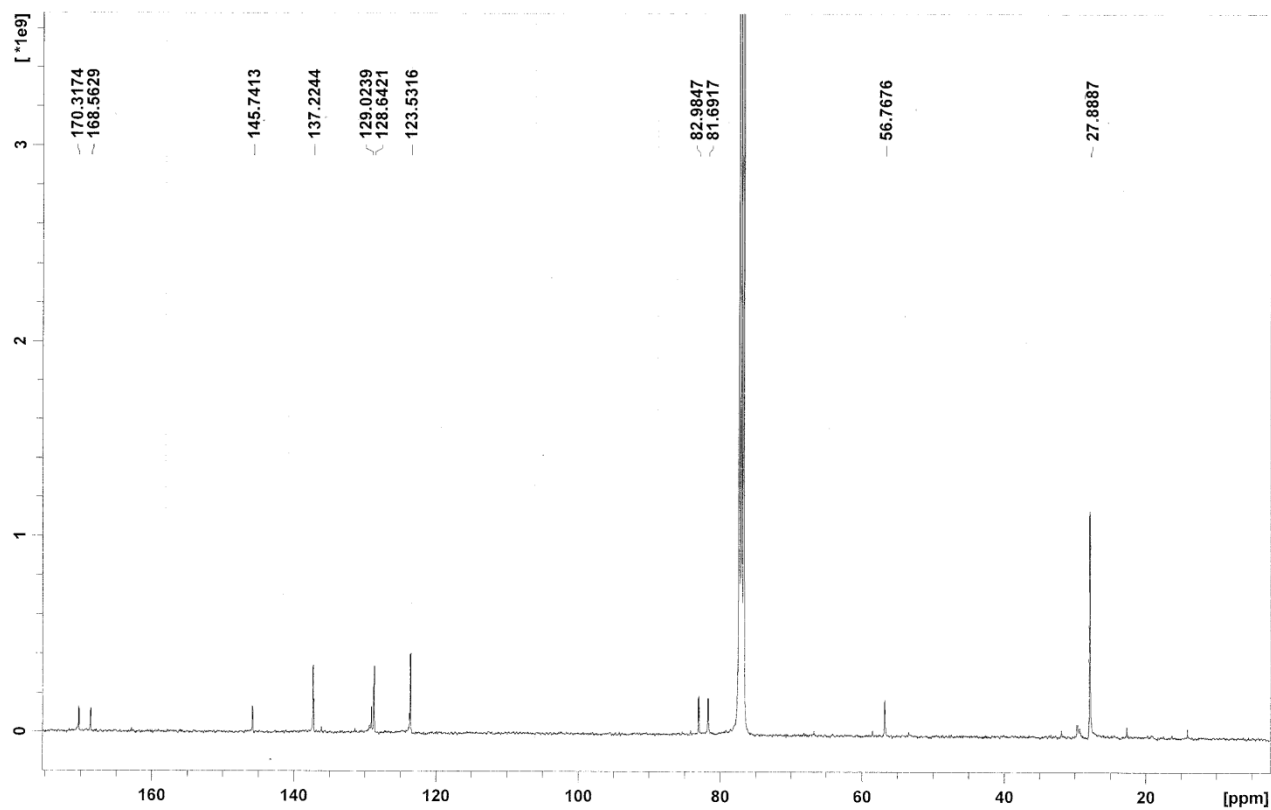
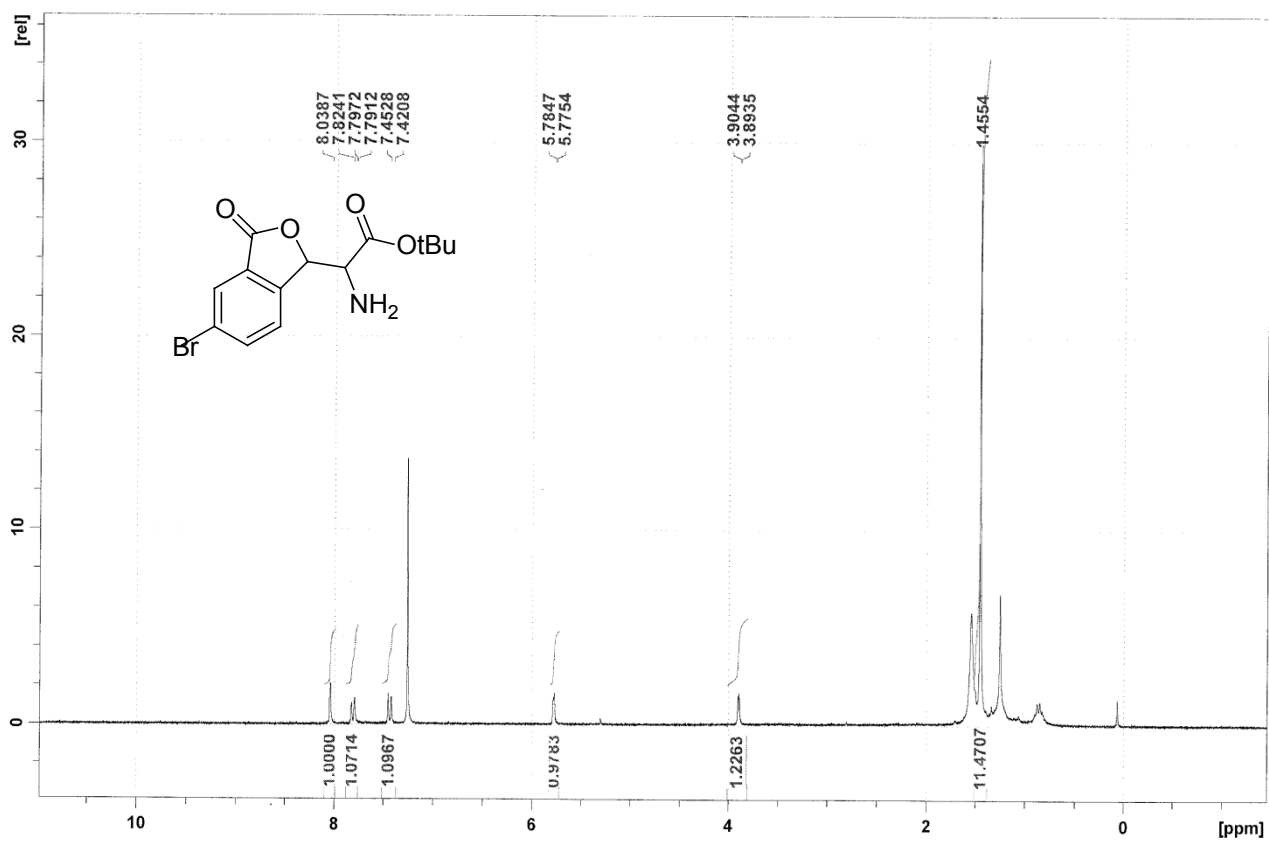
Single diastereomer



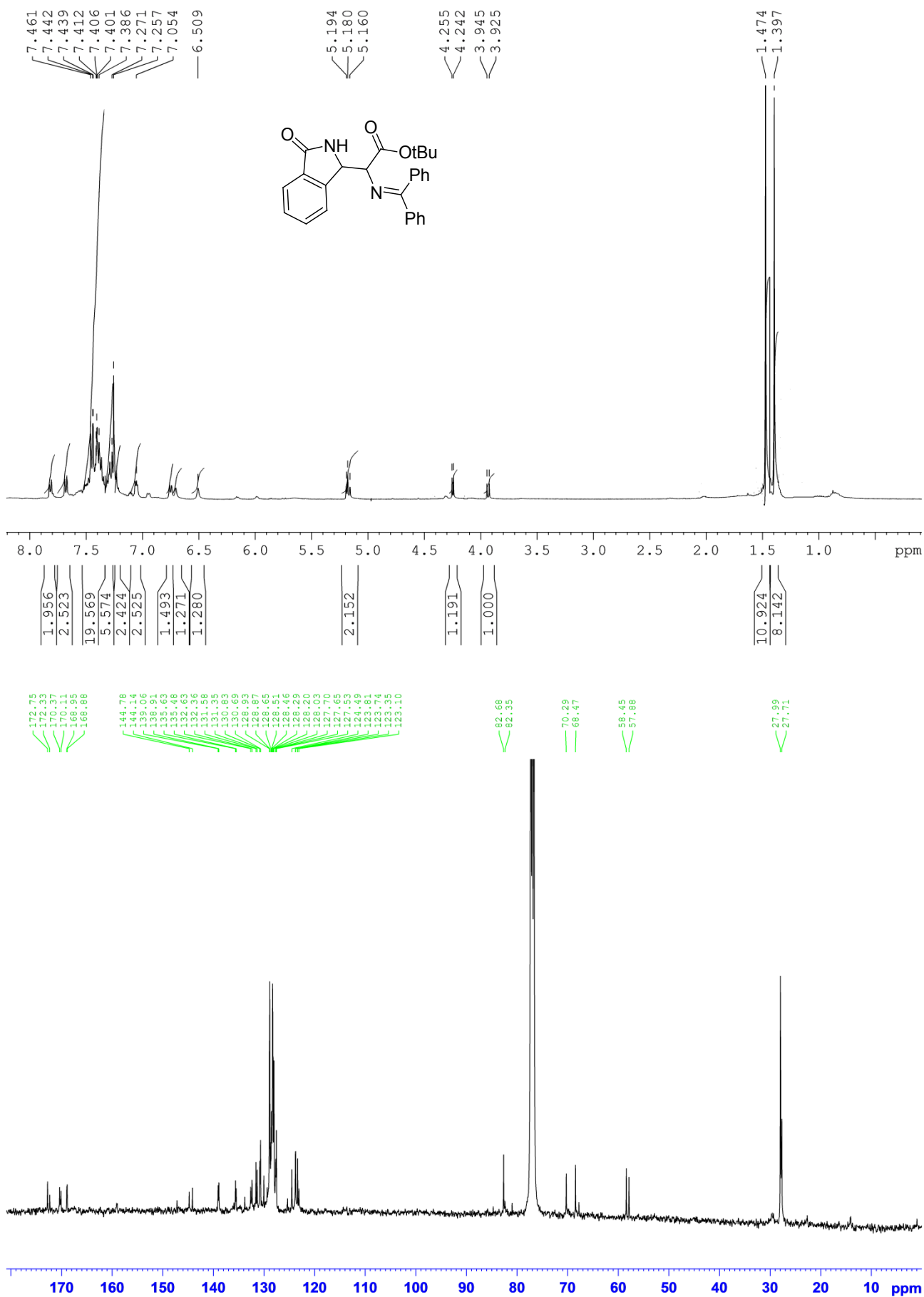
Single diastereomer



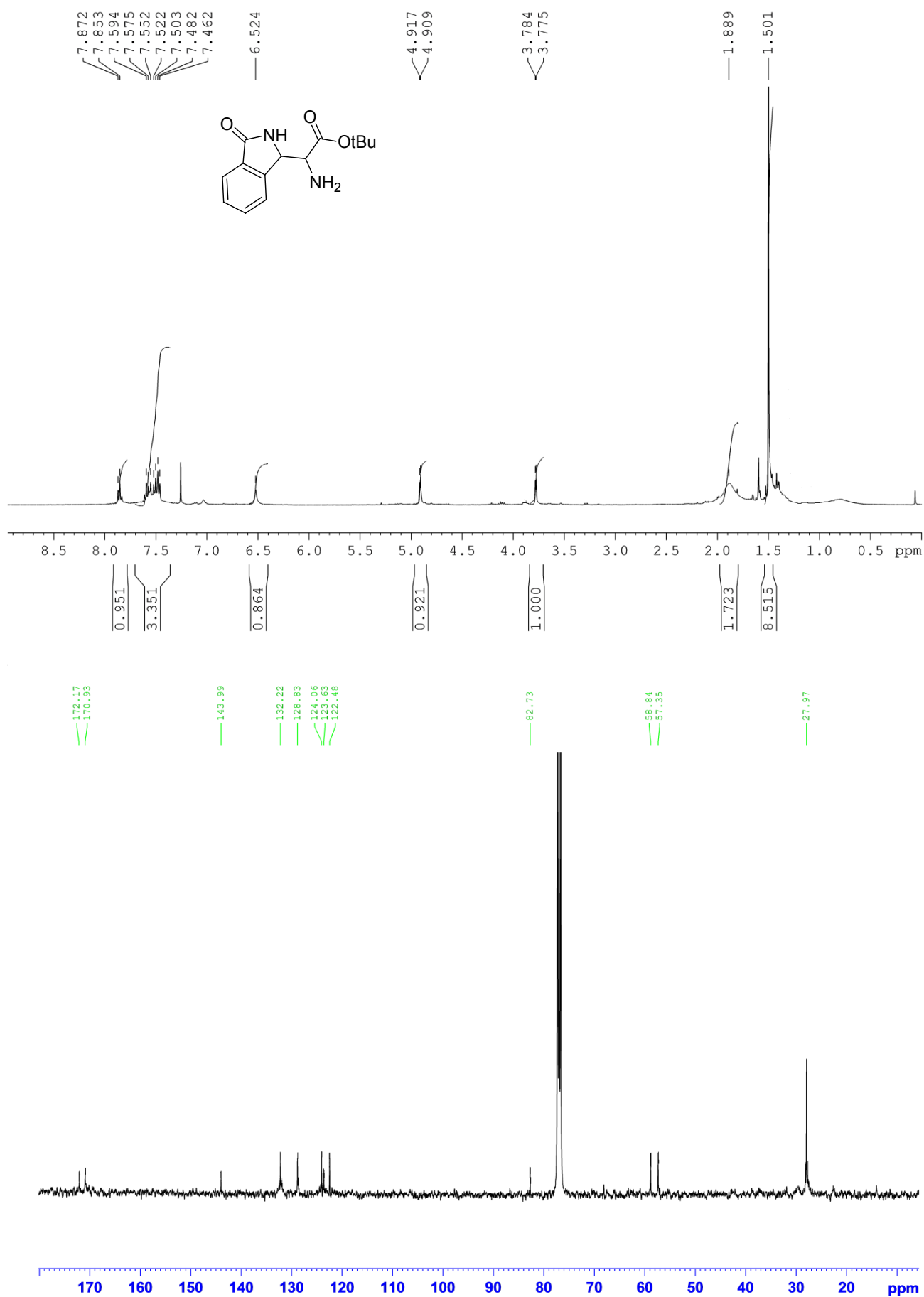
Single diastereomer



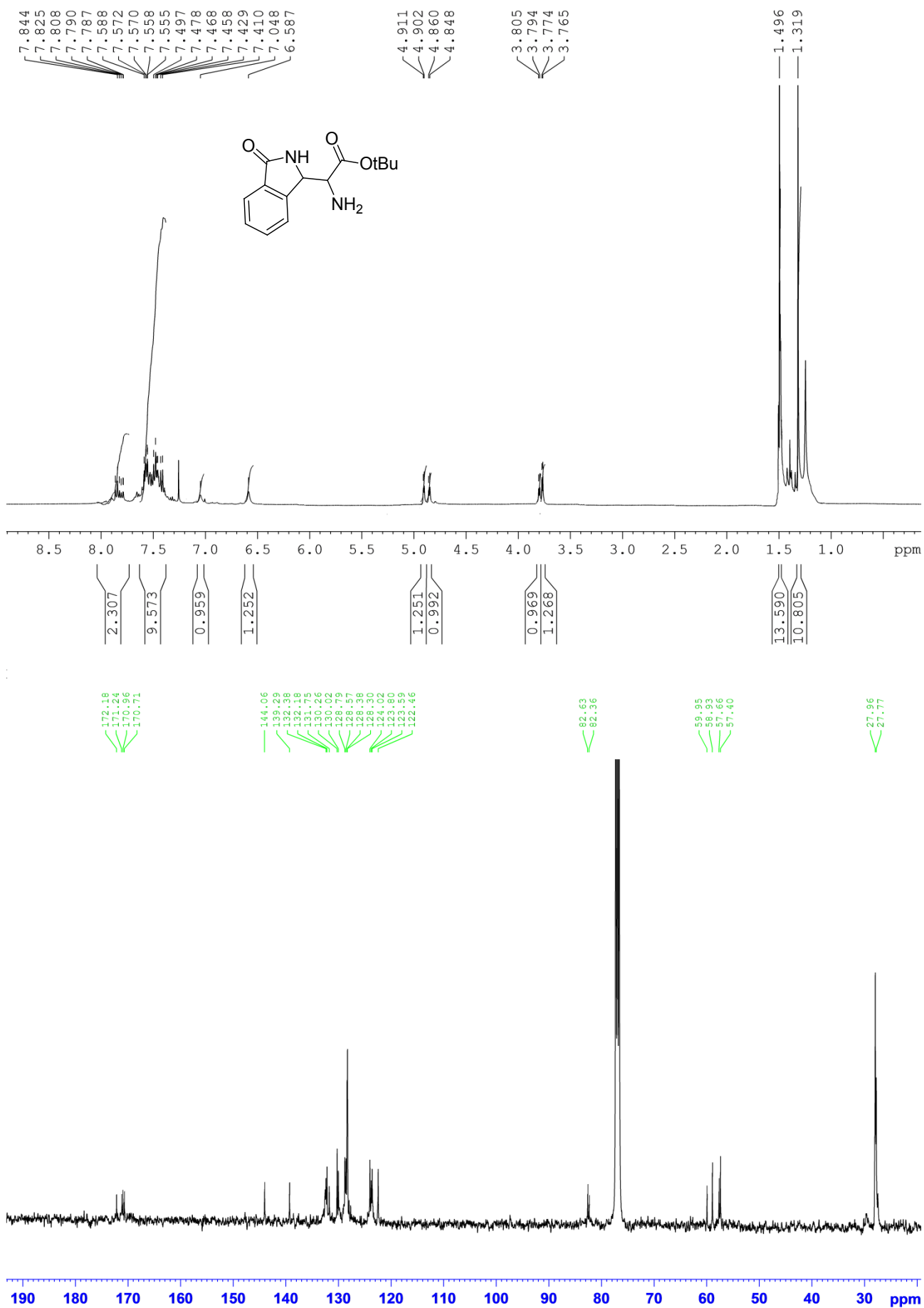
Mixture of diastereomers



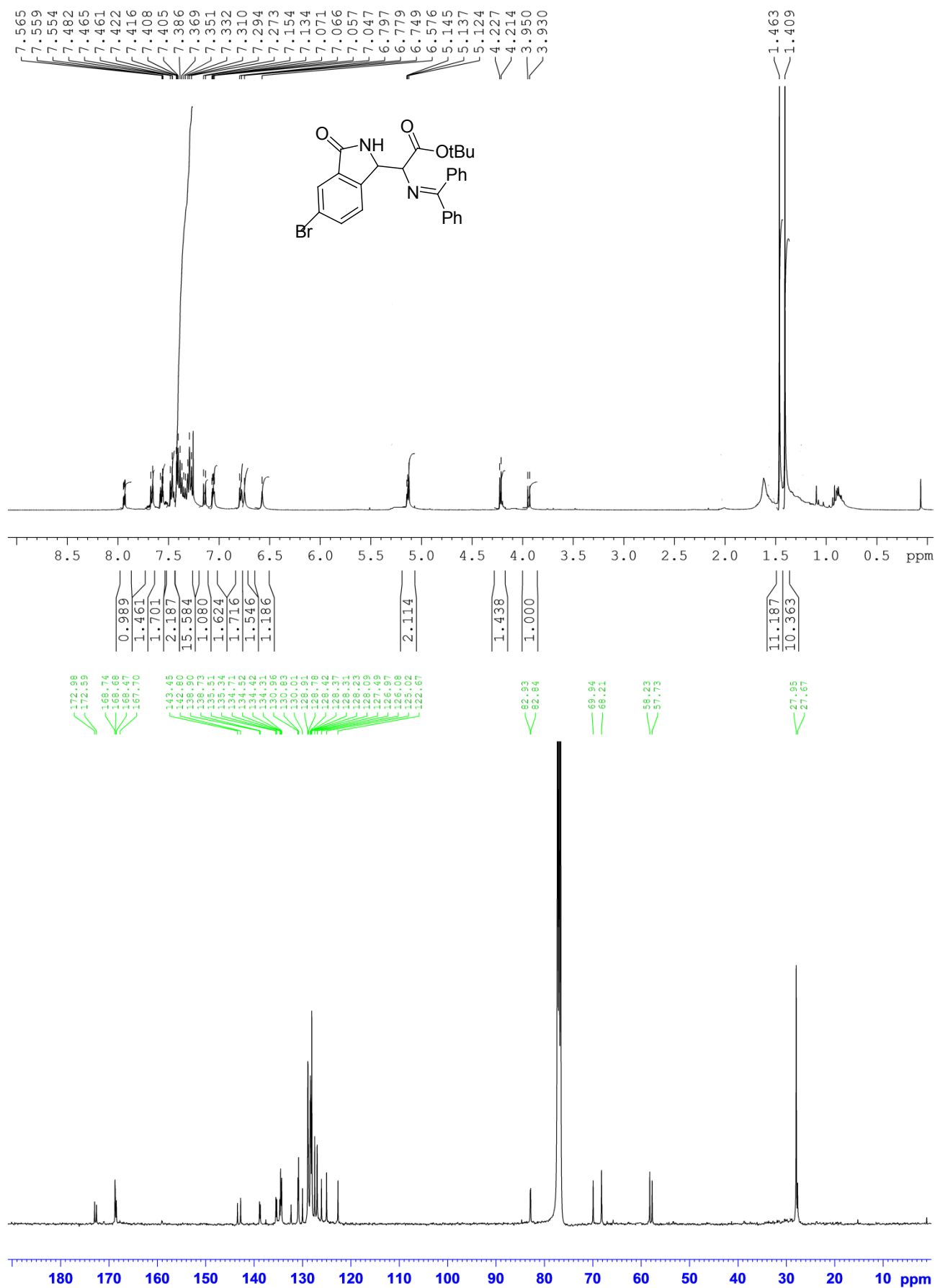
Single diastereomer



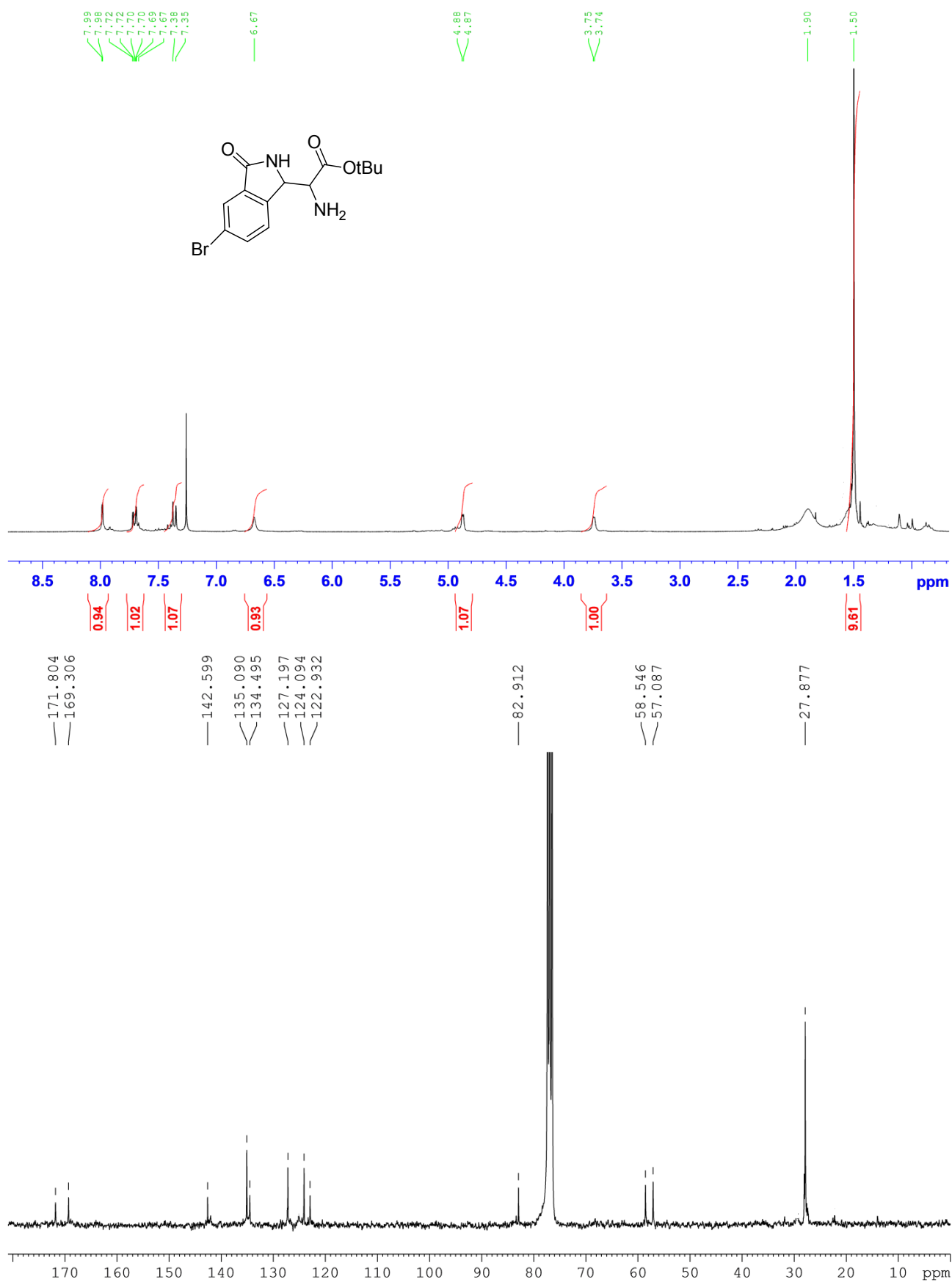
Mixture of diastereomers



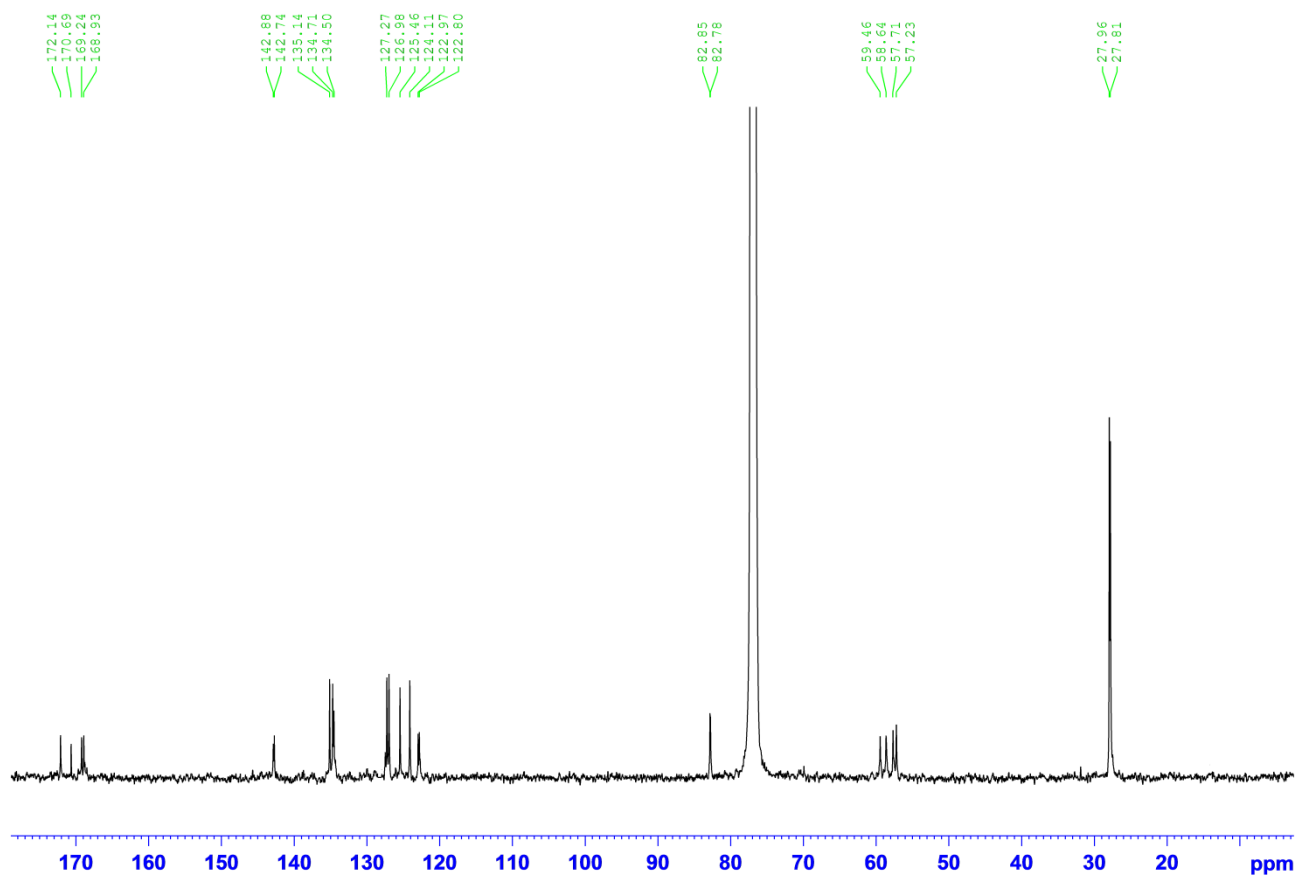
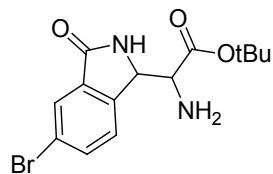
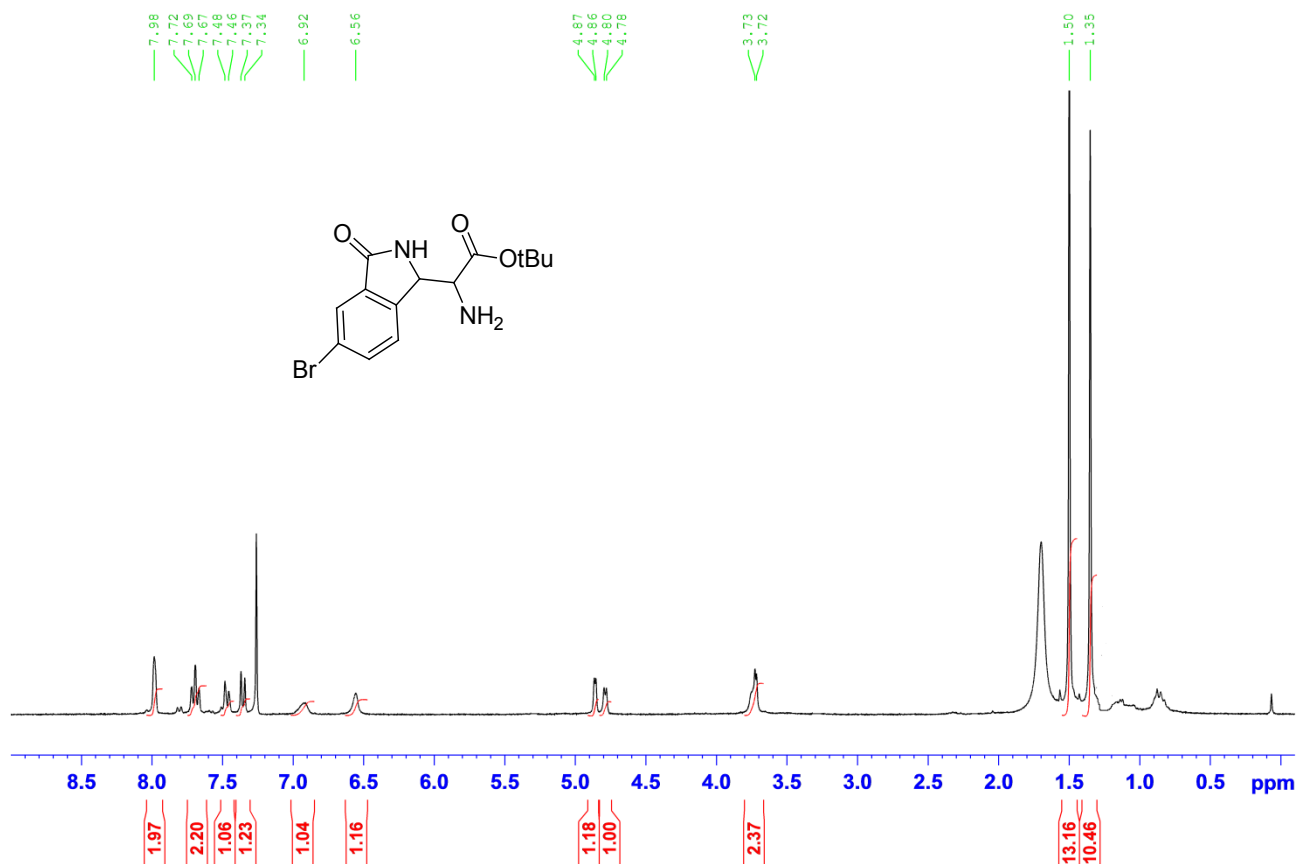
Mixture of diastereomers

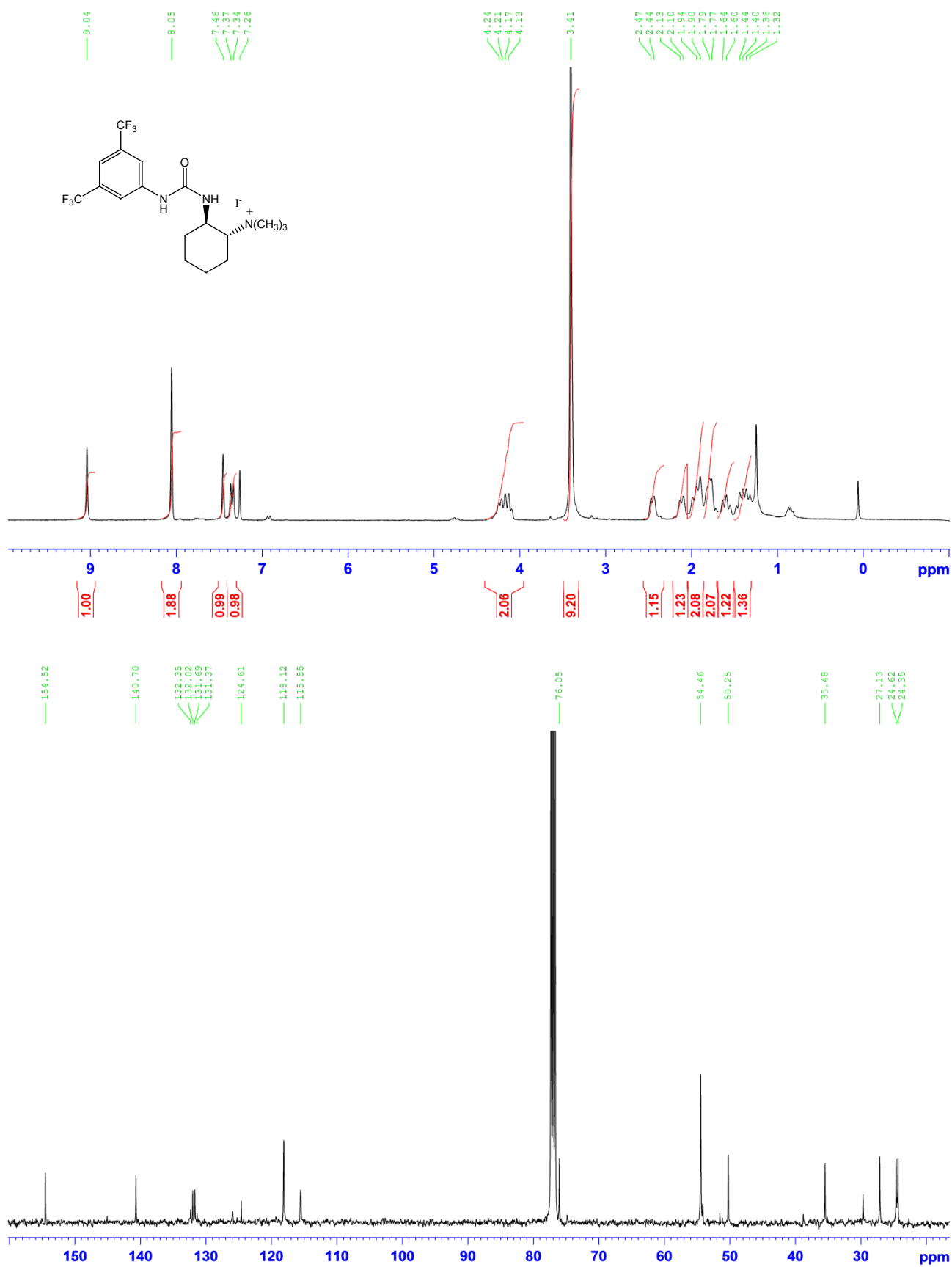


Single diastereomer

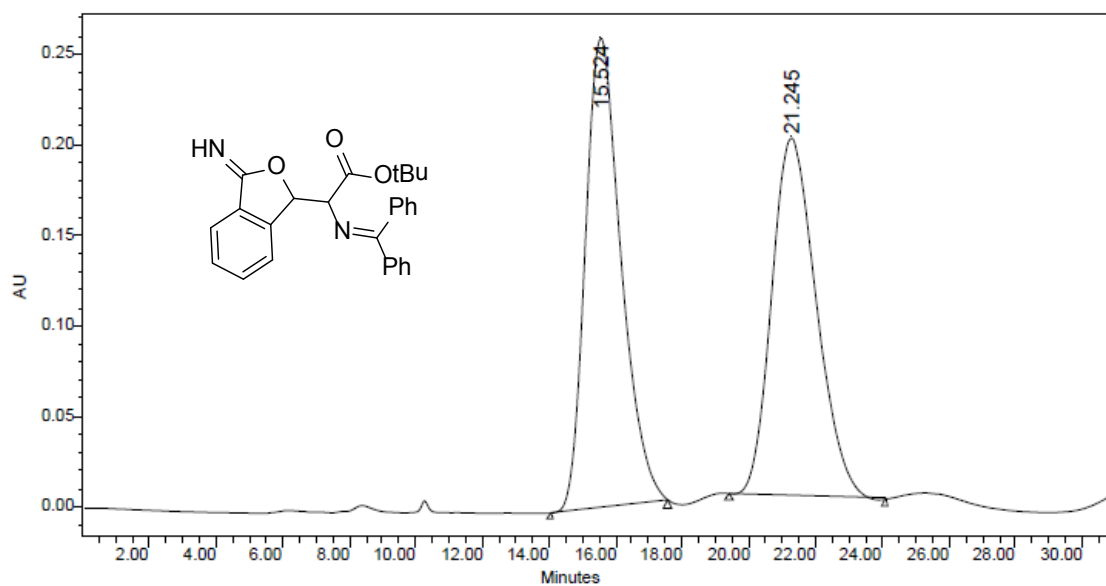


Mixture of diastereomers

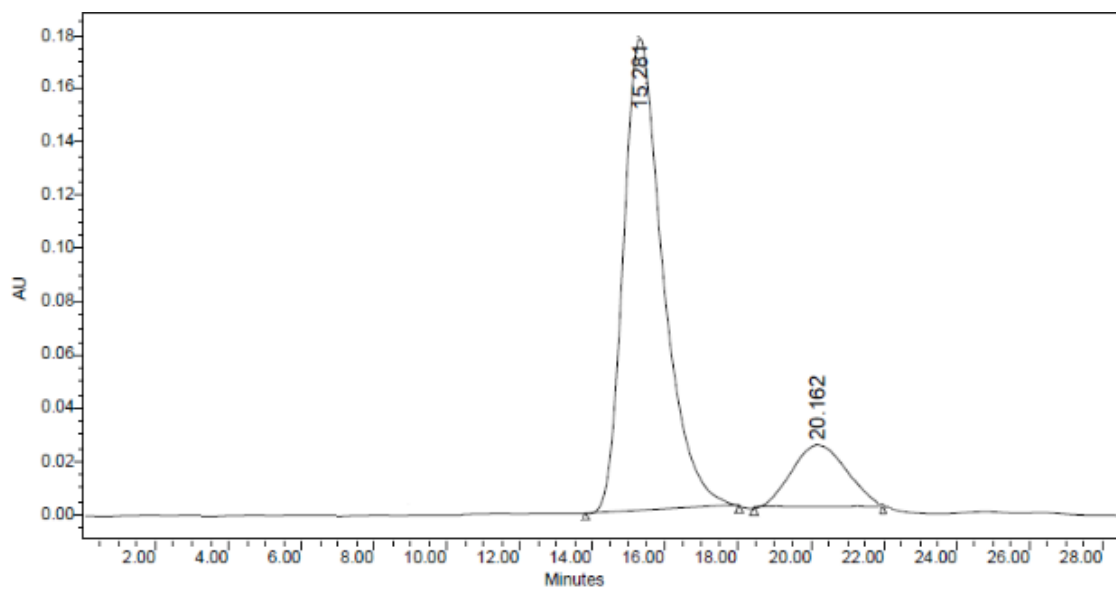




HPLC traces of the major diastereomer

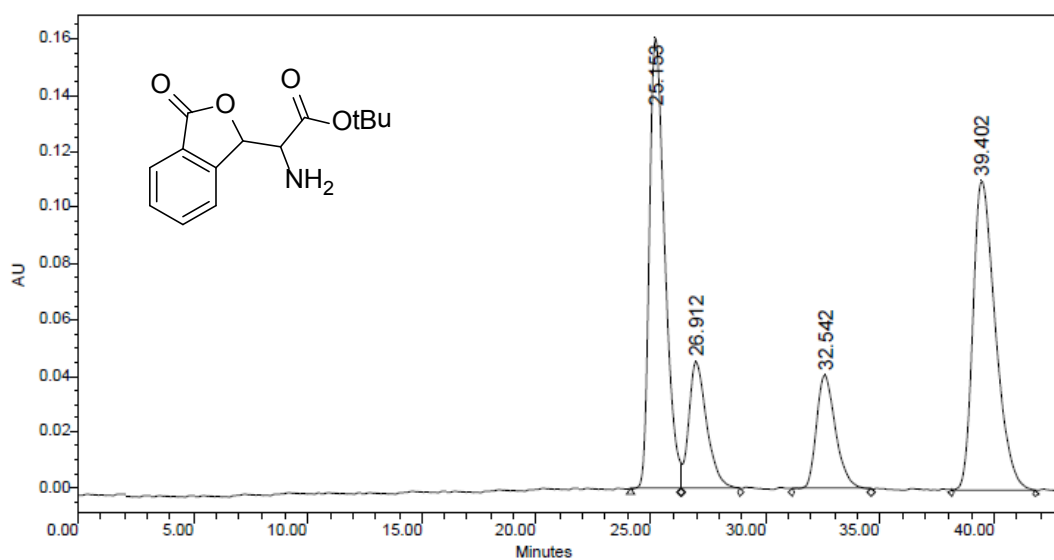


	RT (min)	Area (V*sec)	% Area	Height (V)	% Height
1	15.524	19358486	51.30	259039	56.76
2	21.245	18378969	48.70	197318	43.24



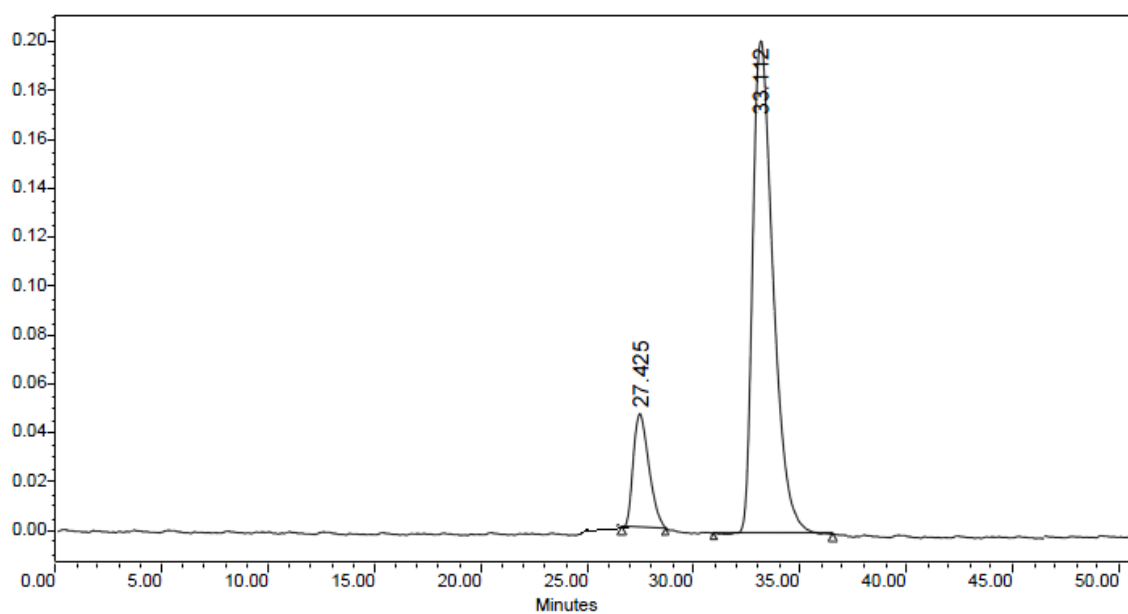
	RT (min)	Area (V*sec)	% Area	Height (V)	% Height
1	15.281	13495876	85.09	177729	88.57
2	20.162	2365073	14.91	22925	11.43

HPLC traces of *rac* mixture of two diastereomers in *dr* = 1.6/1



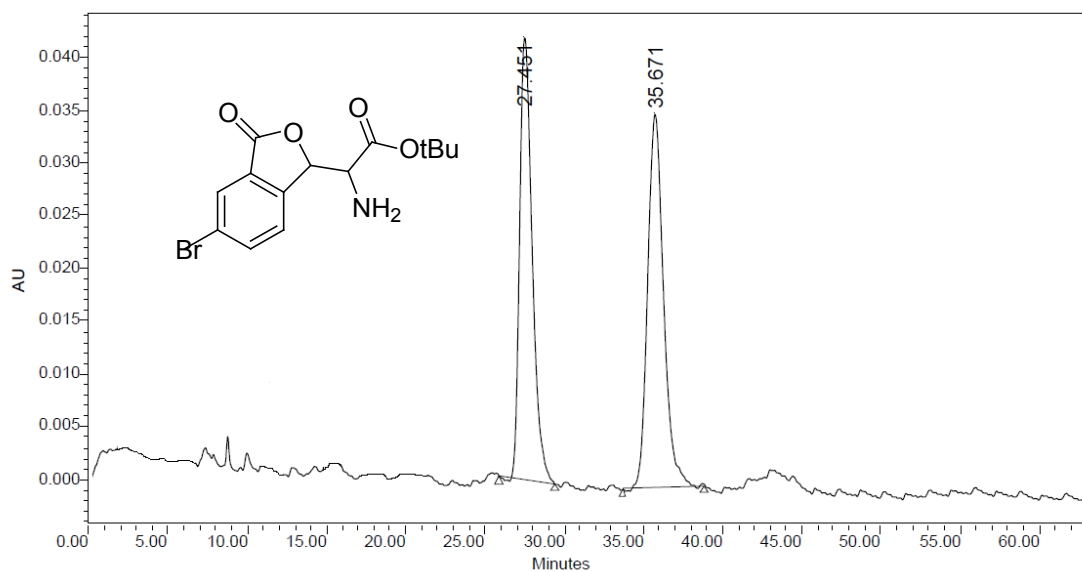
	RT (min)	Area (V*sec)	% Area	Height (V)	% Height
1	25.153	7562309	37.75	160393	44.99
2	26.912	2501911	12.49	45354	12.72
3	32.542	2432791	12.14	40788	11.44
4	39.402	7535374	37.62	109982	30.85

HPLC trace of enantioenriched major diastereomer.



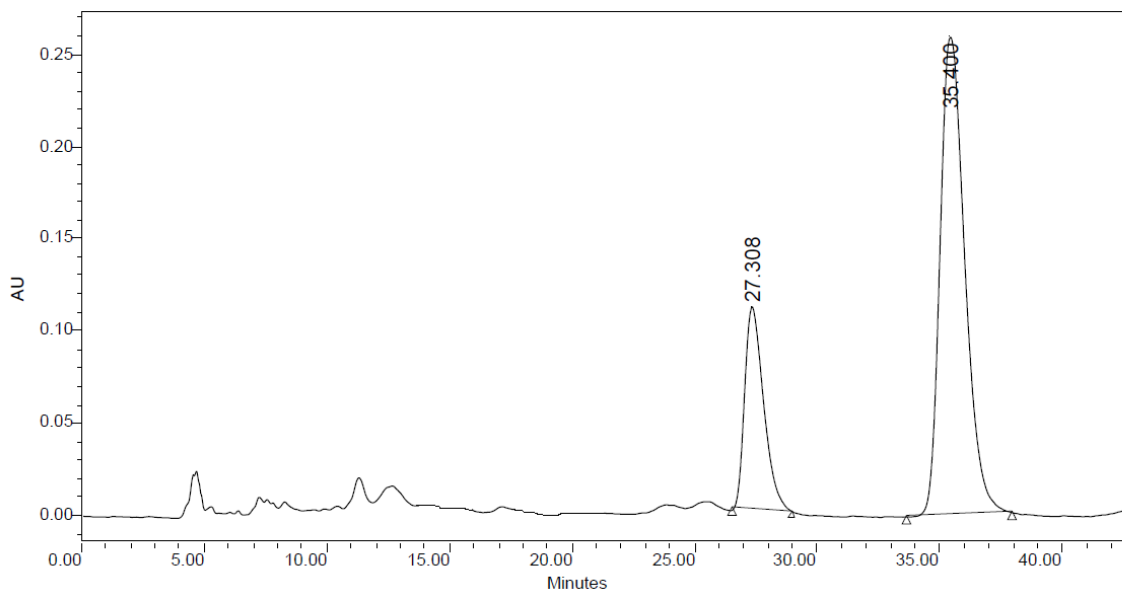
	RT (min)	Area (V*sec)	% Area	Height (V)	% Height
1	27.425	2383510	14.98	46558	18.76
2	33.112	13527927	85.02	201680	81.24

HPLC trace of *rac*- major diastereomer



	RT (min)	Area (V*sec)	% Area	Height (V)	% Height
1	27.451	2319447	48.16	41894	54.18
2	35.671	2496237	51.84	35427	45.82

HPLC trace of enantioenriched major diastereomer



	RT (min)	Area (V*sec)	% Area	Height (V)	% Height
1	27.308	5933332	24.54	110011	29.80
2	35.400	18244323	75.46	259186	70.20