

## Supplementary Material

### A new and efficient enantioselective synthesis of both enantiomers of calcium channel blocker Bepridil

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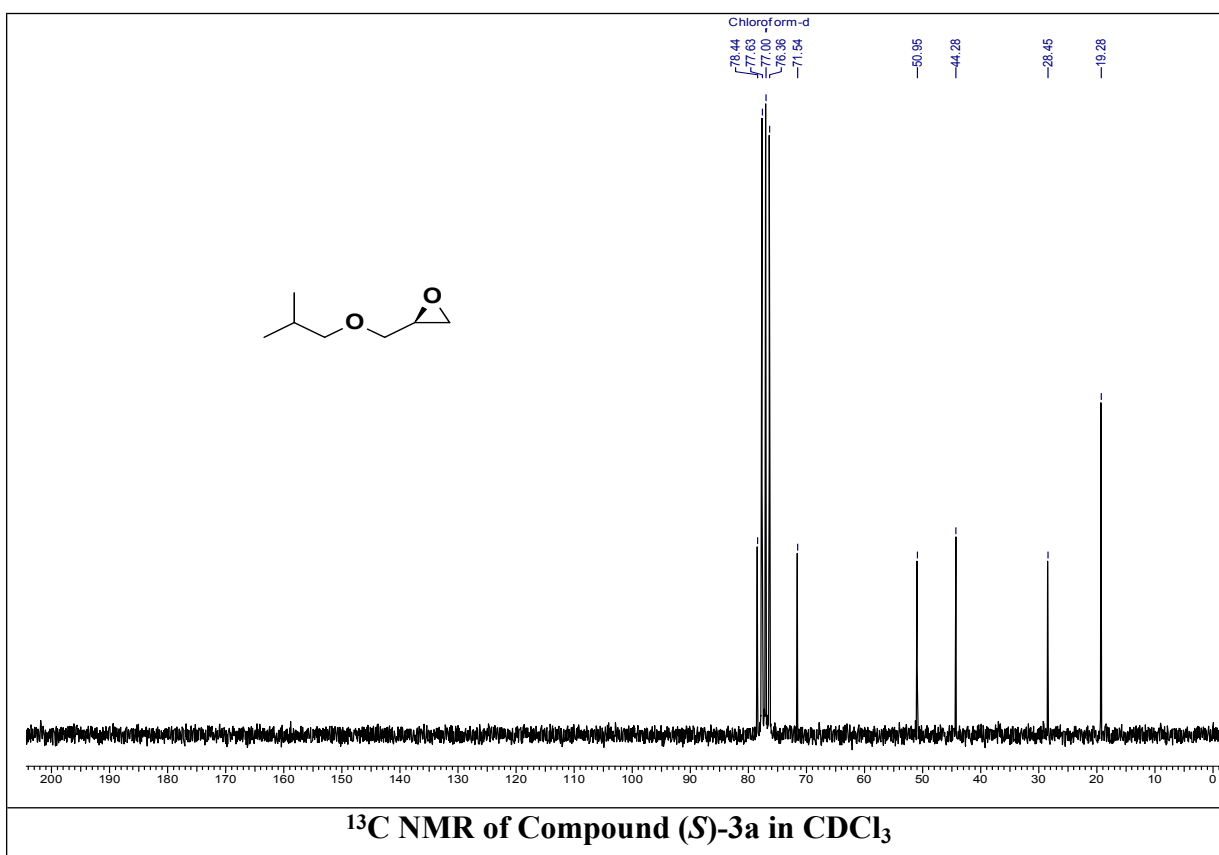
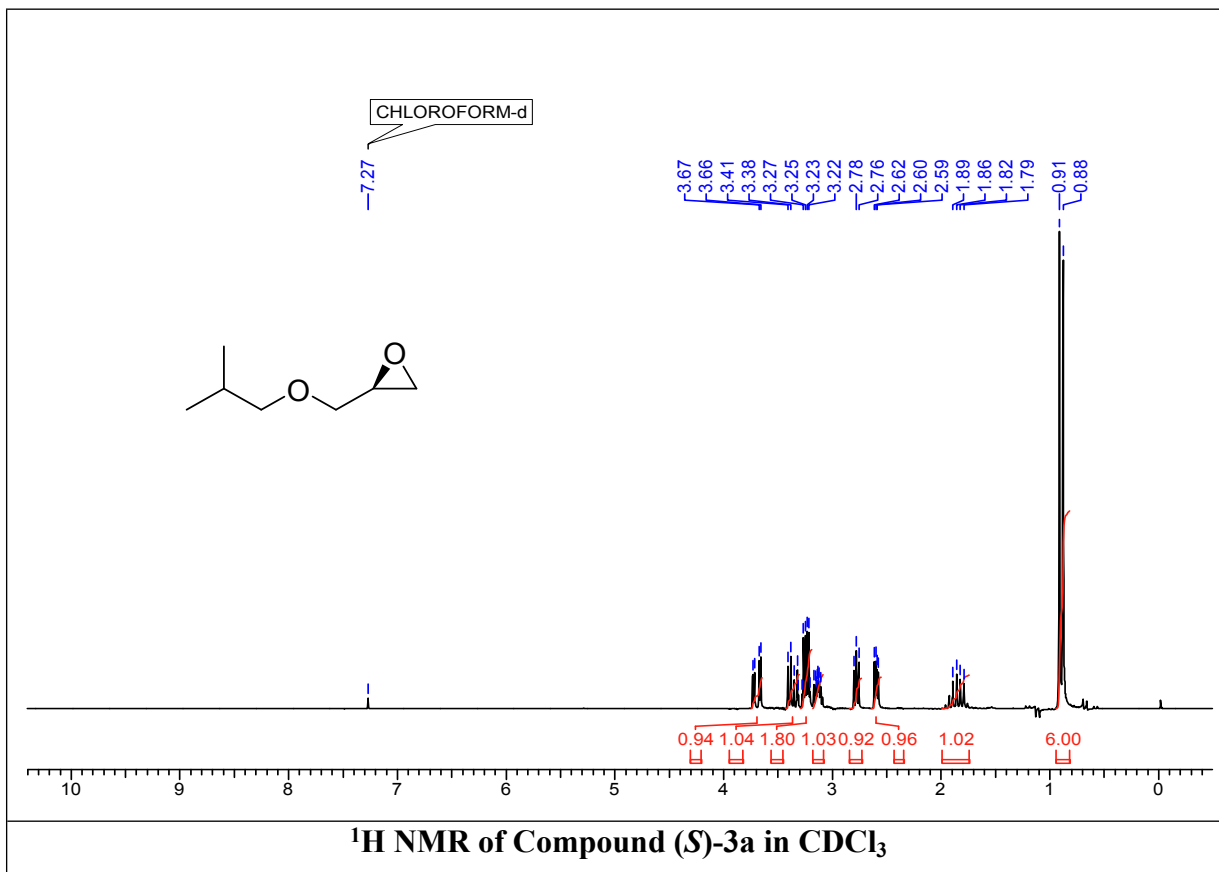
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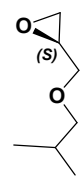
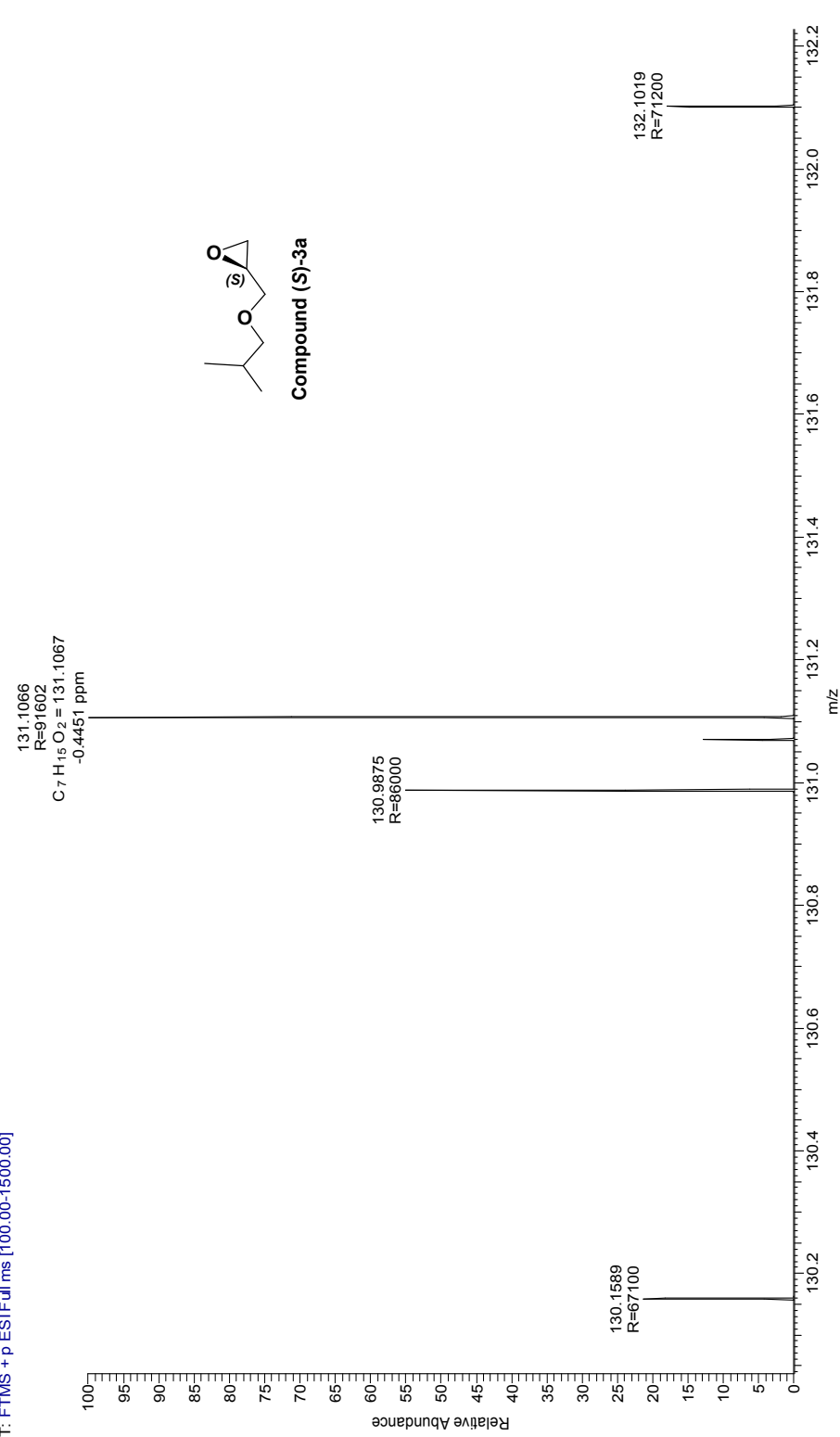
<sup>c</sup>Department of Chemistry, School of Basic Science, Vels University, Chennai-600117, India

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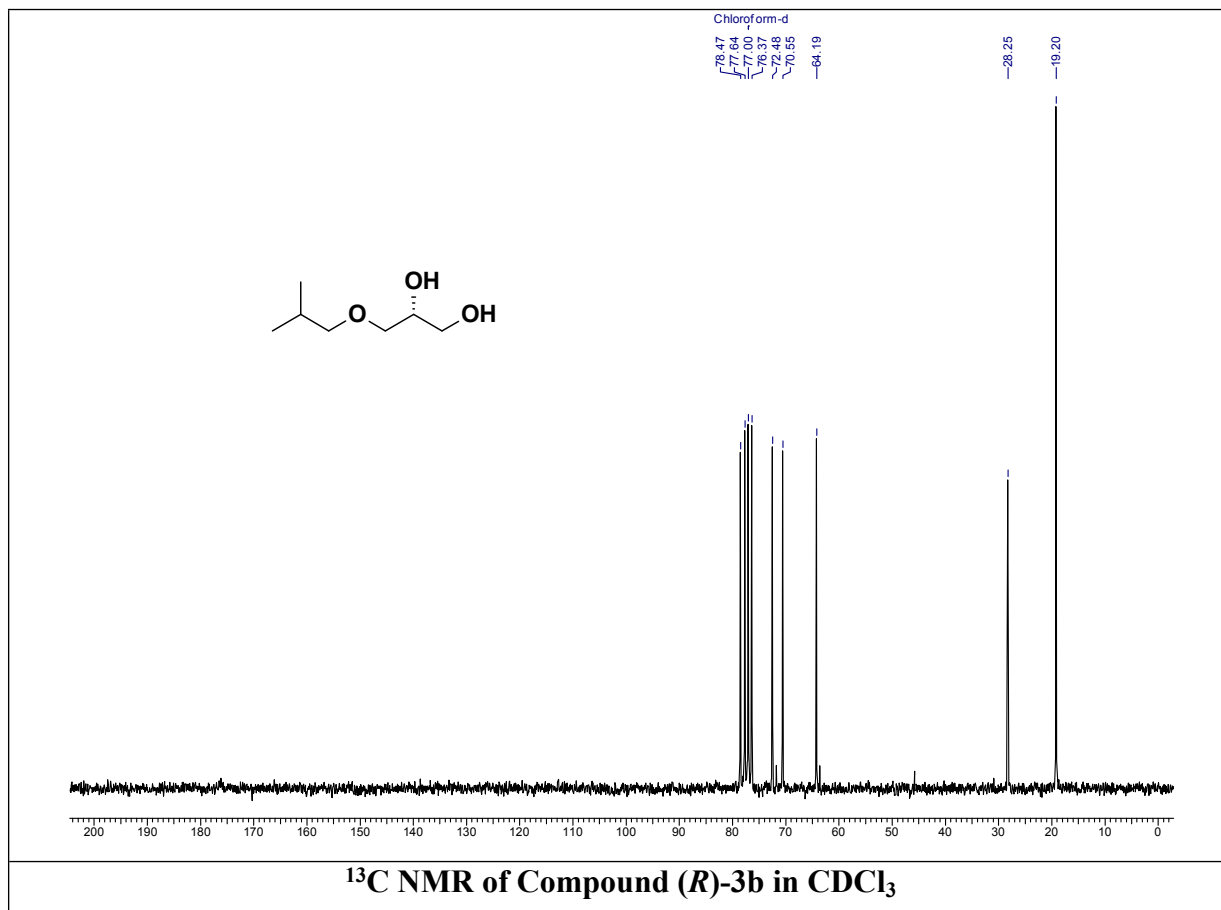
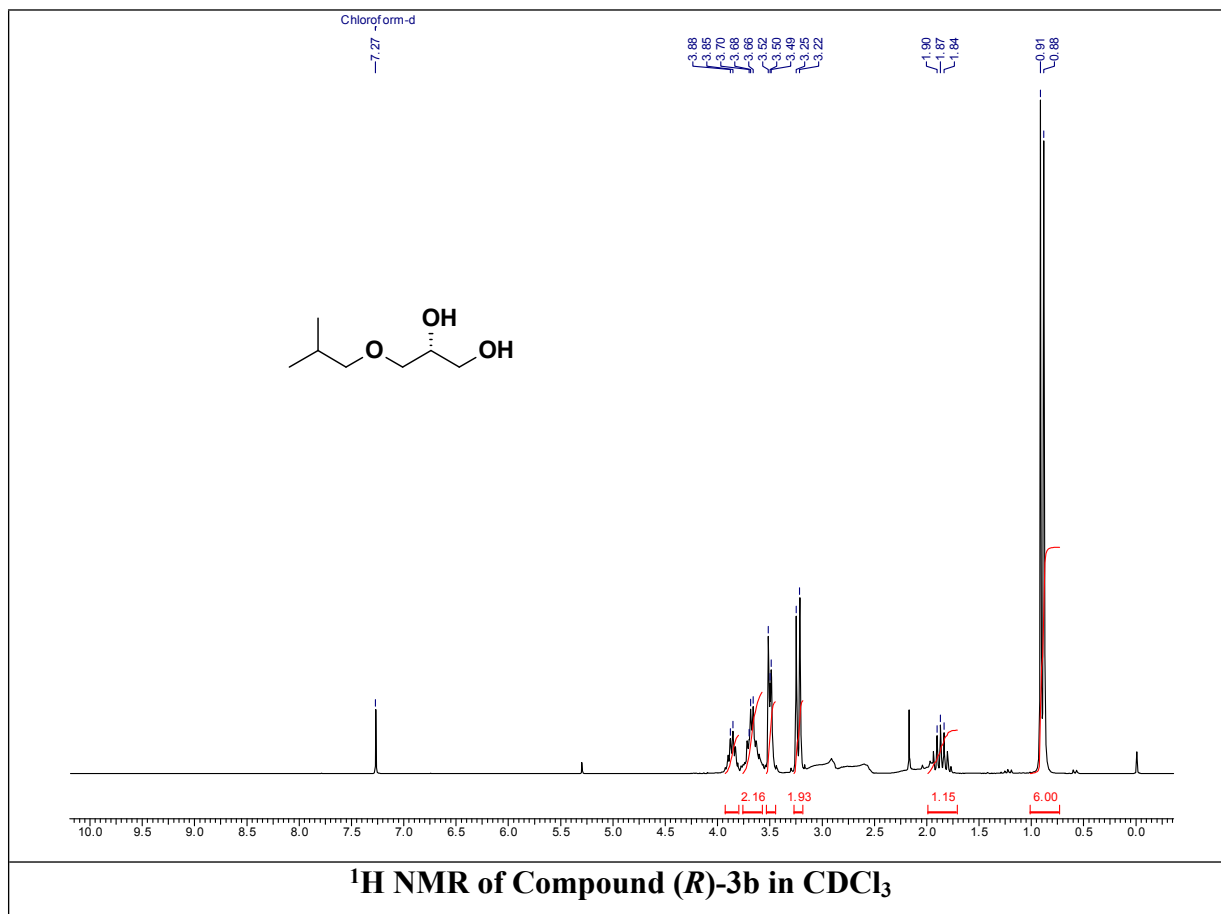


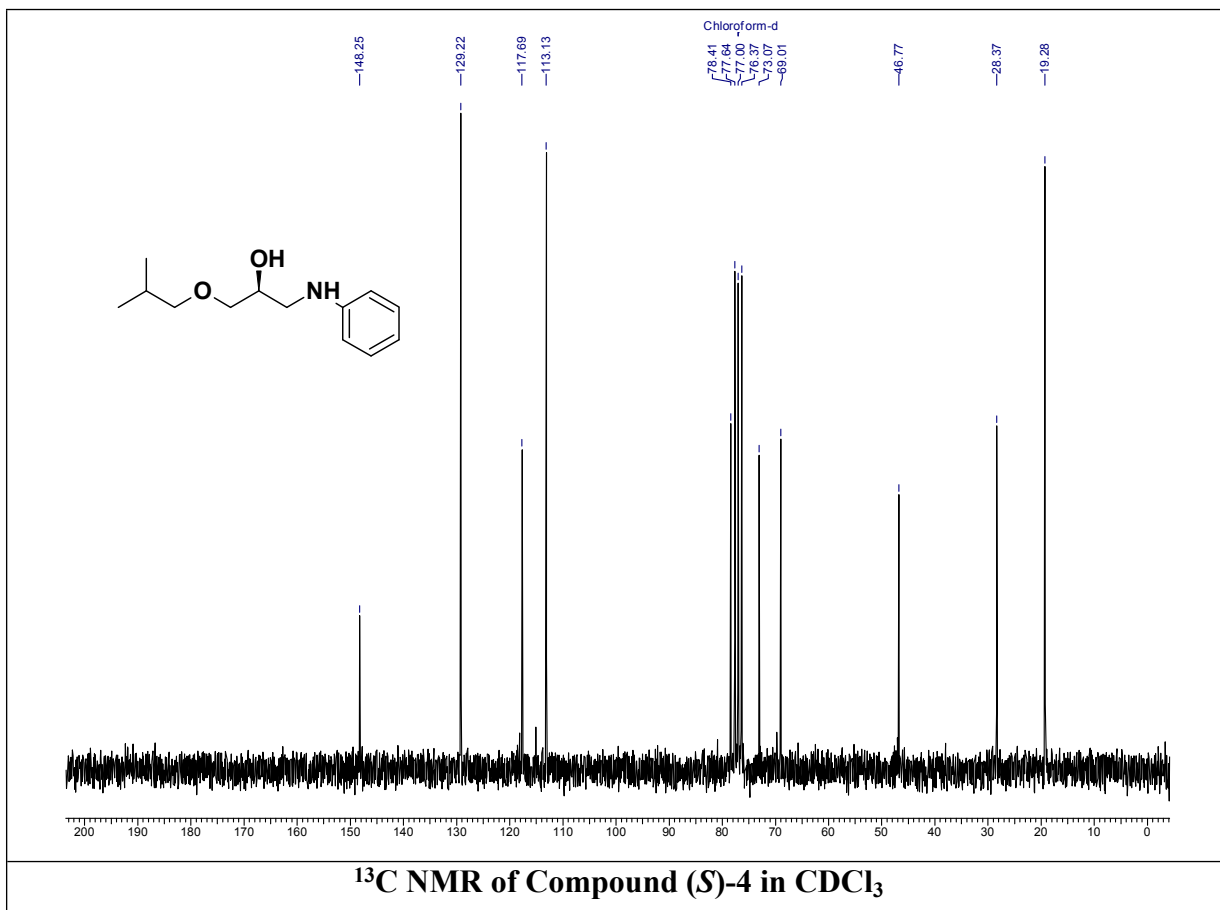
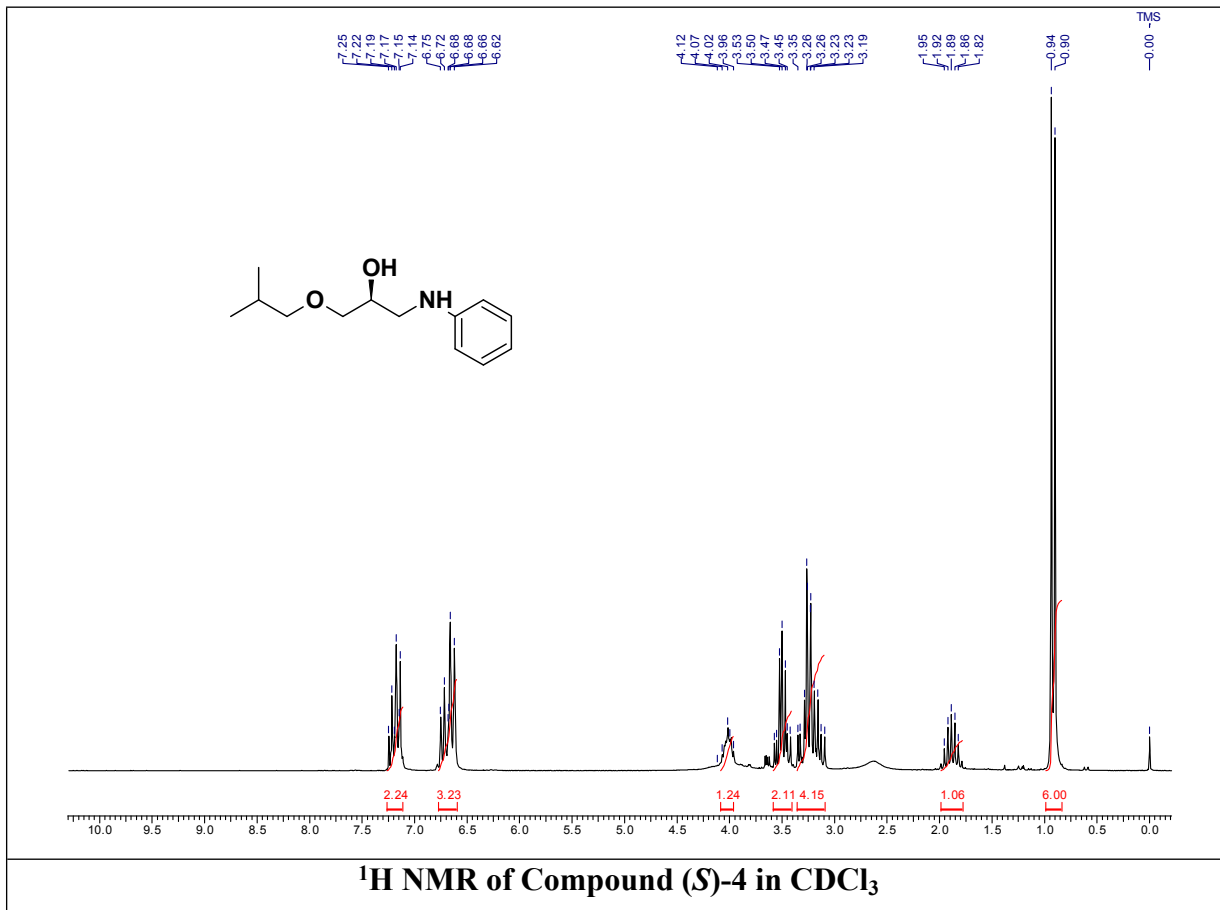
# HRMS of Compound (S)-3a

SJ-150 #127 RT: 0.56 AV: 1 NL: 1.29E6  
T: FTMS + p ESIFull ms [100.00-1500.00]



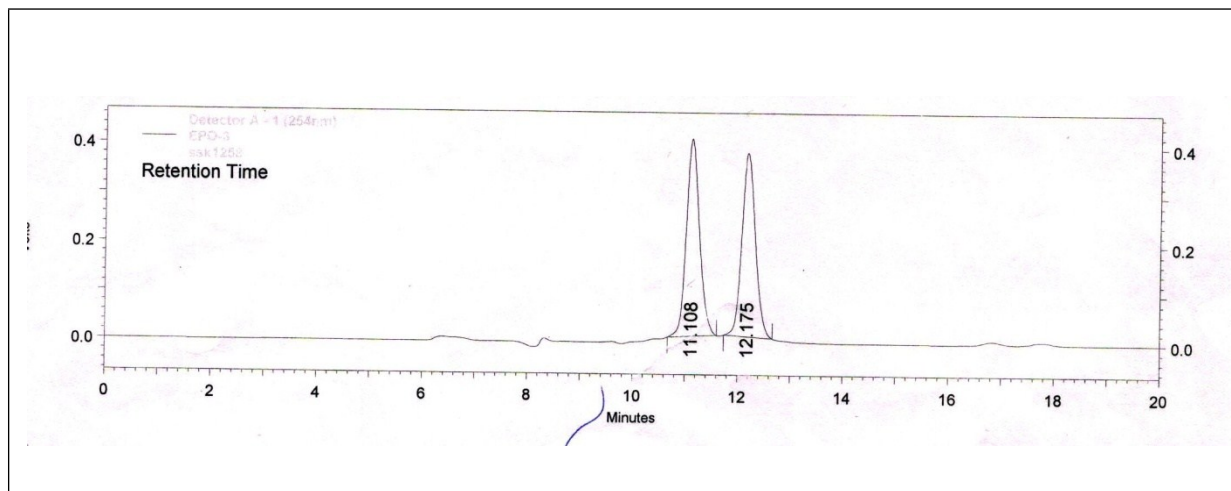
Compound (S)-3a





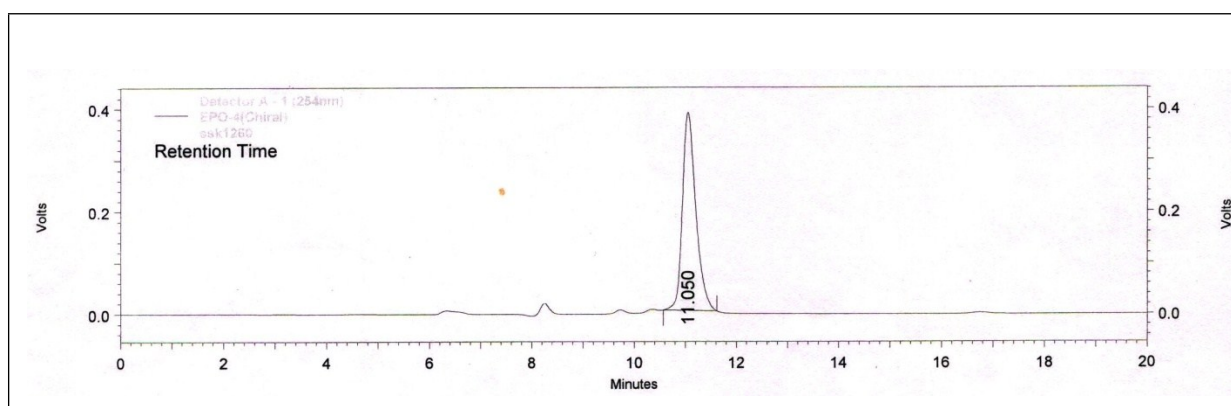
## Chiral HPLC Analysis of Compound (S)-4

Conditions: Chiralcel OD-H (250 X 4.6 mm) column; eluent: Ethanol/Petether/TFA (15:85:0.1); flow rate: 0.5 mL/min; detector 254 nm.



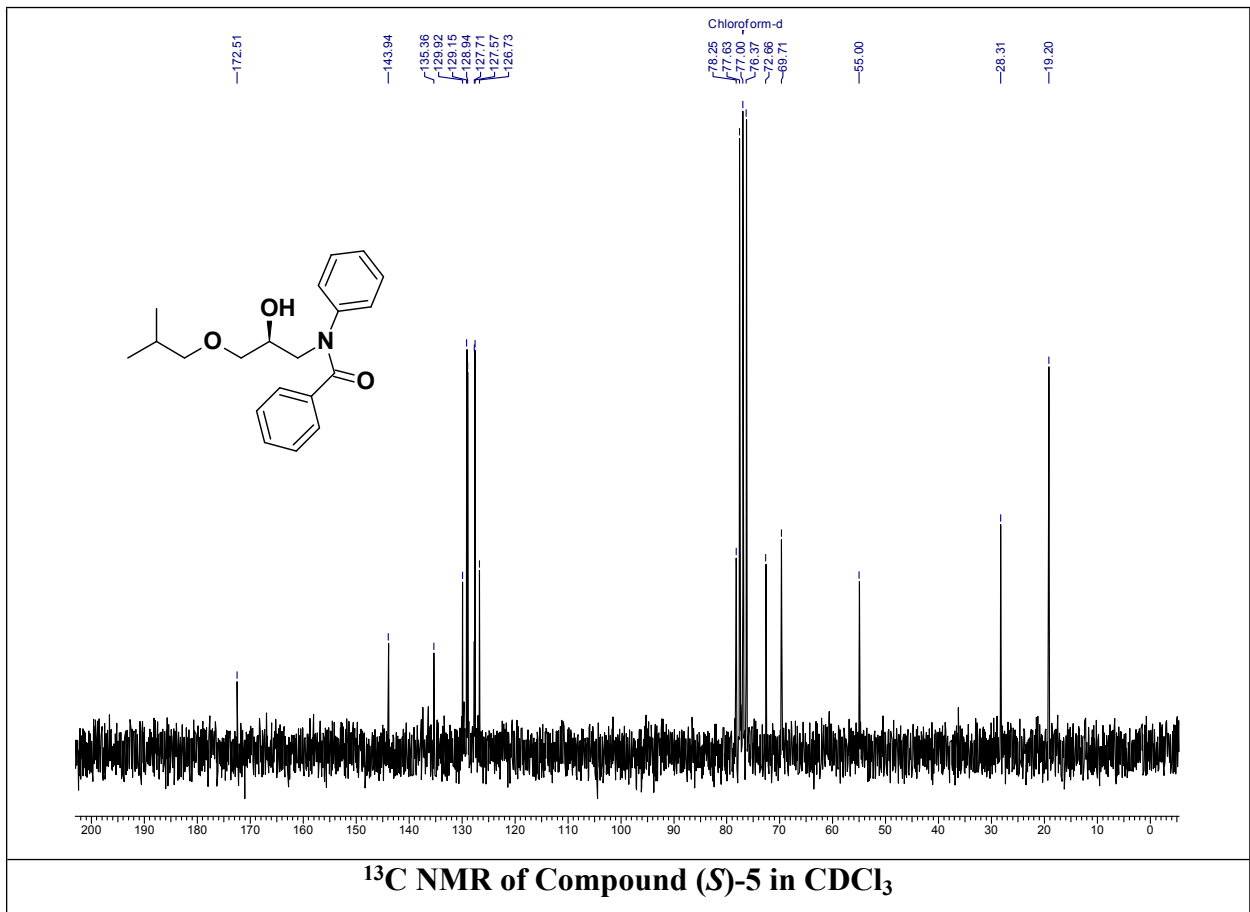
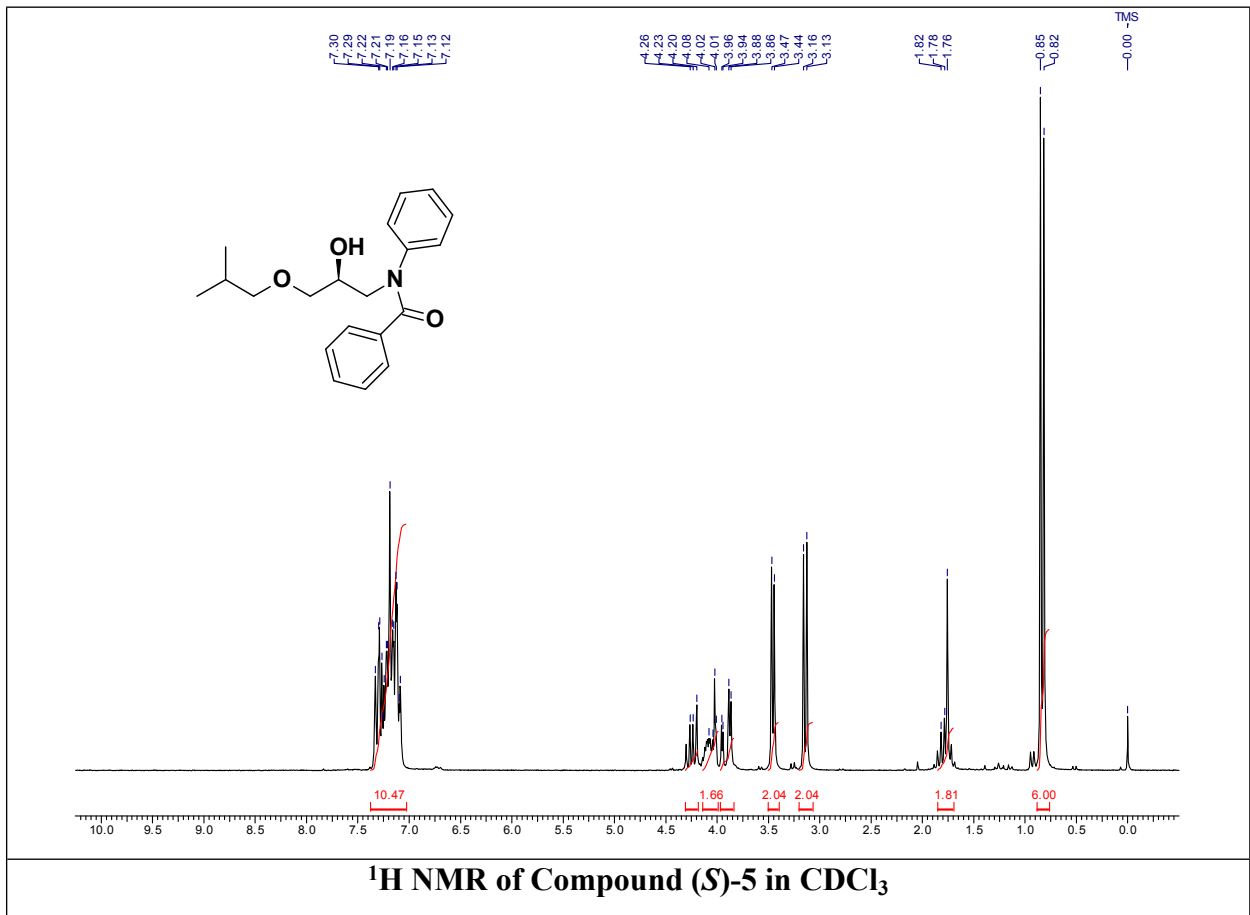
### Racemic Sample Chromatograph

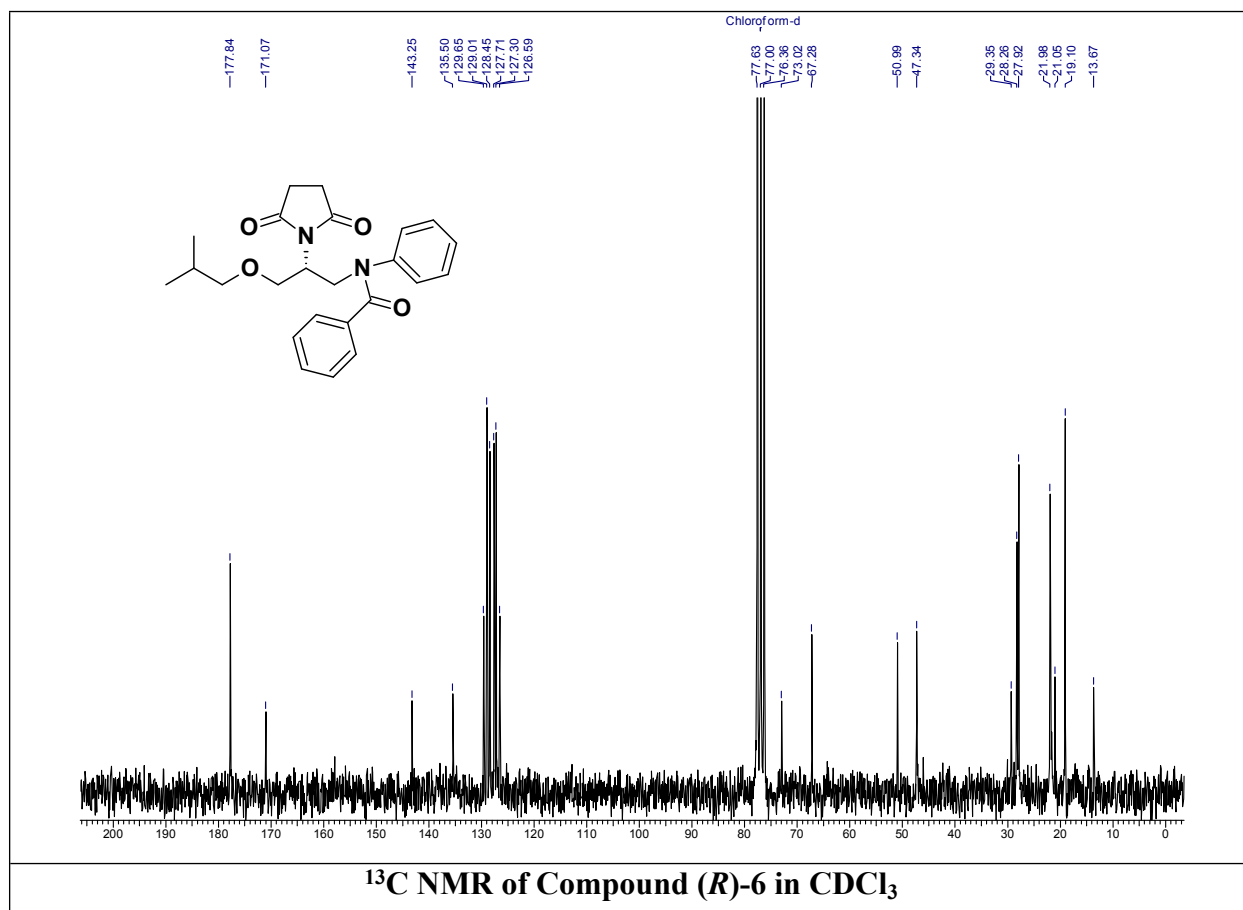
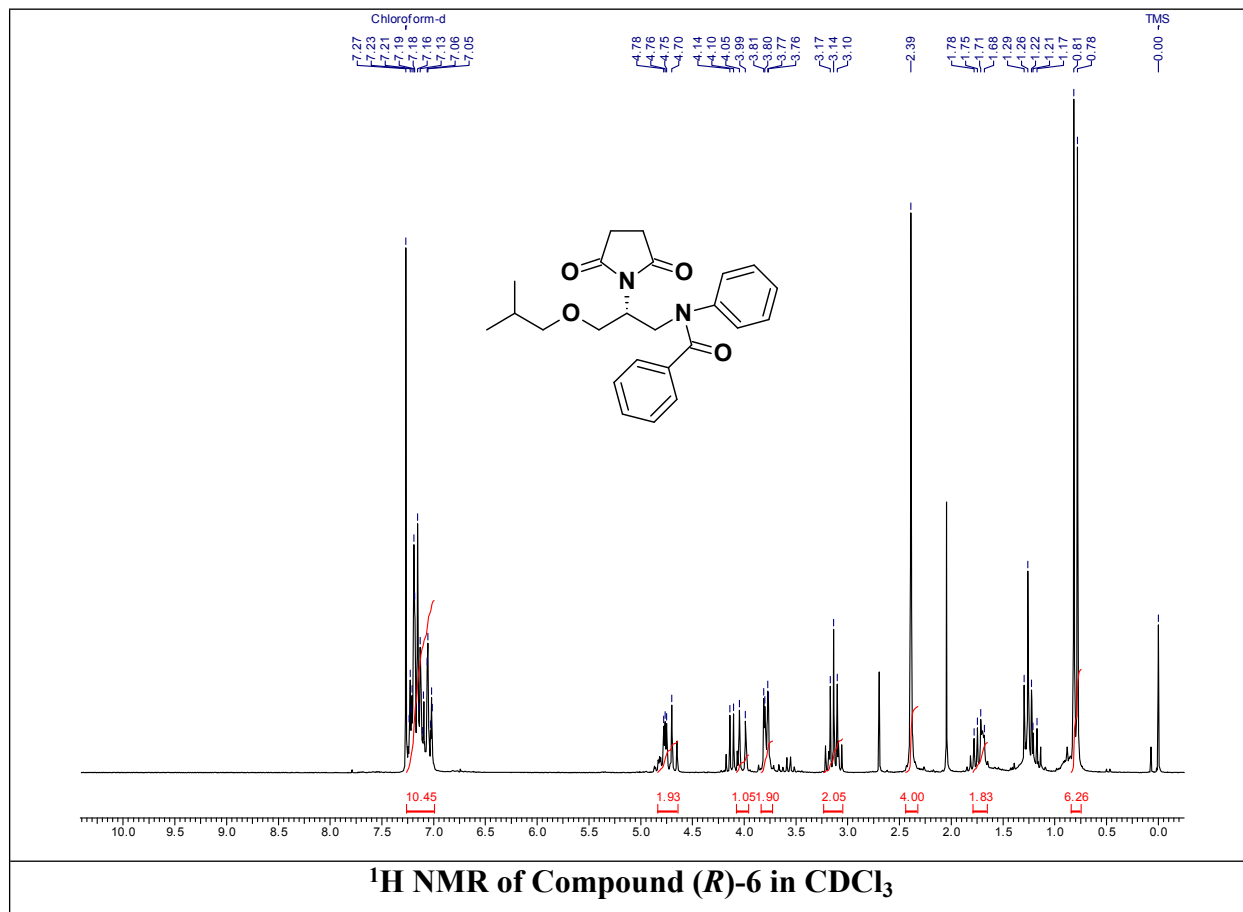
Pk #	Retention Time (mins)	Area	Area %
1	11.108	7022608	50.793
2	12.175	683422	49.207
<b>Totals</b>		<b>13826030</b>	<b>100.000</b>



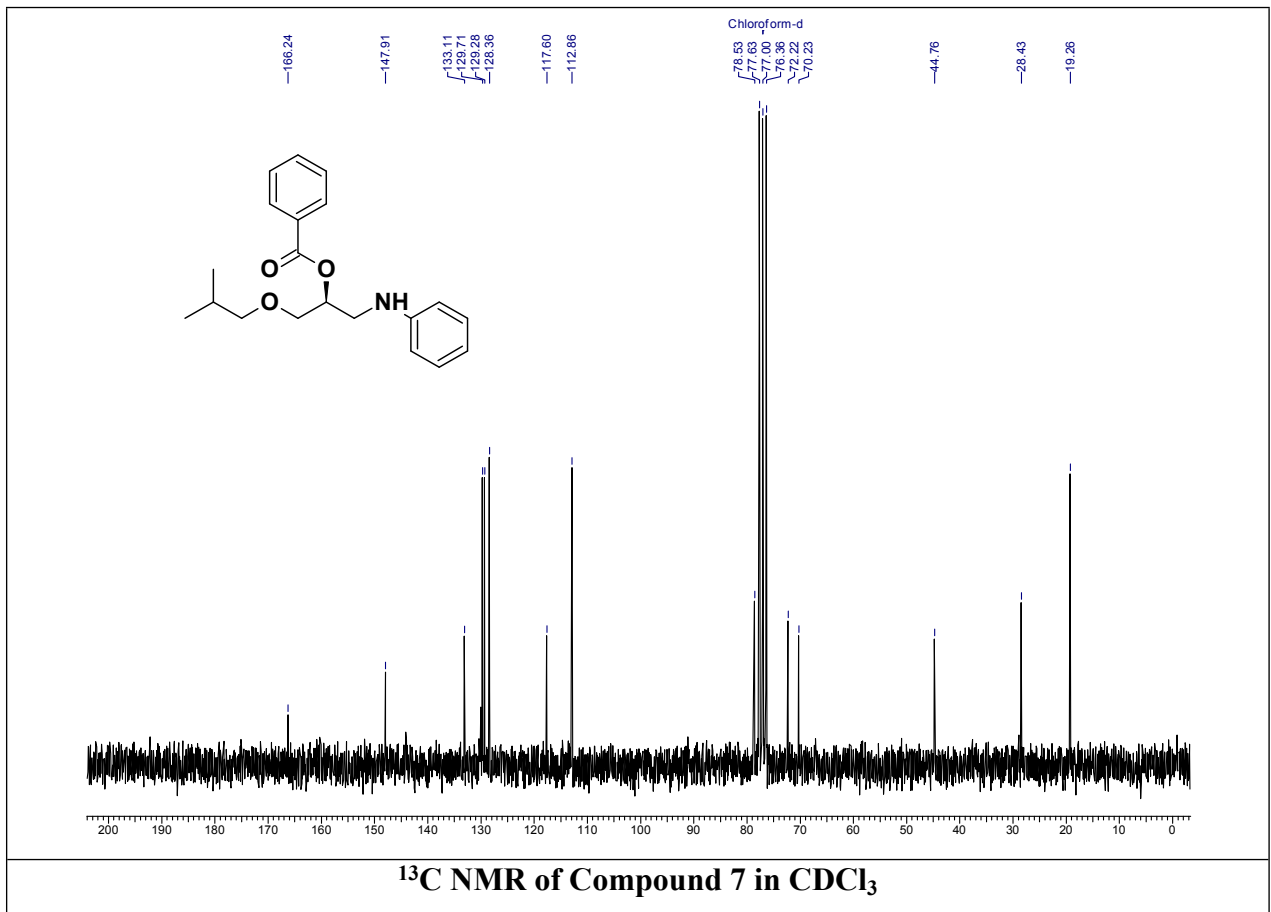
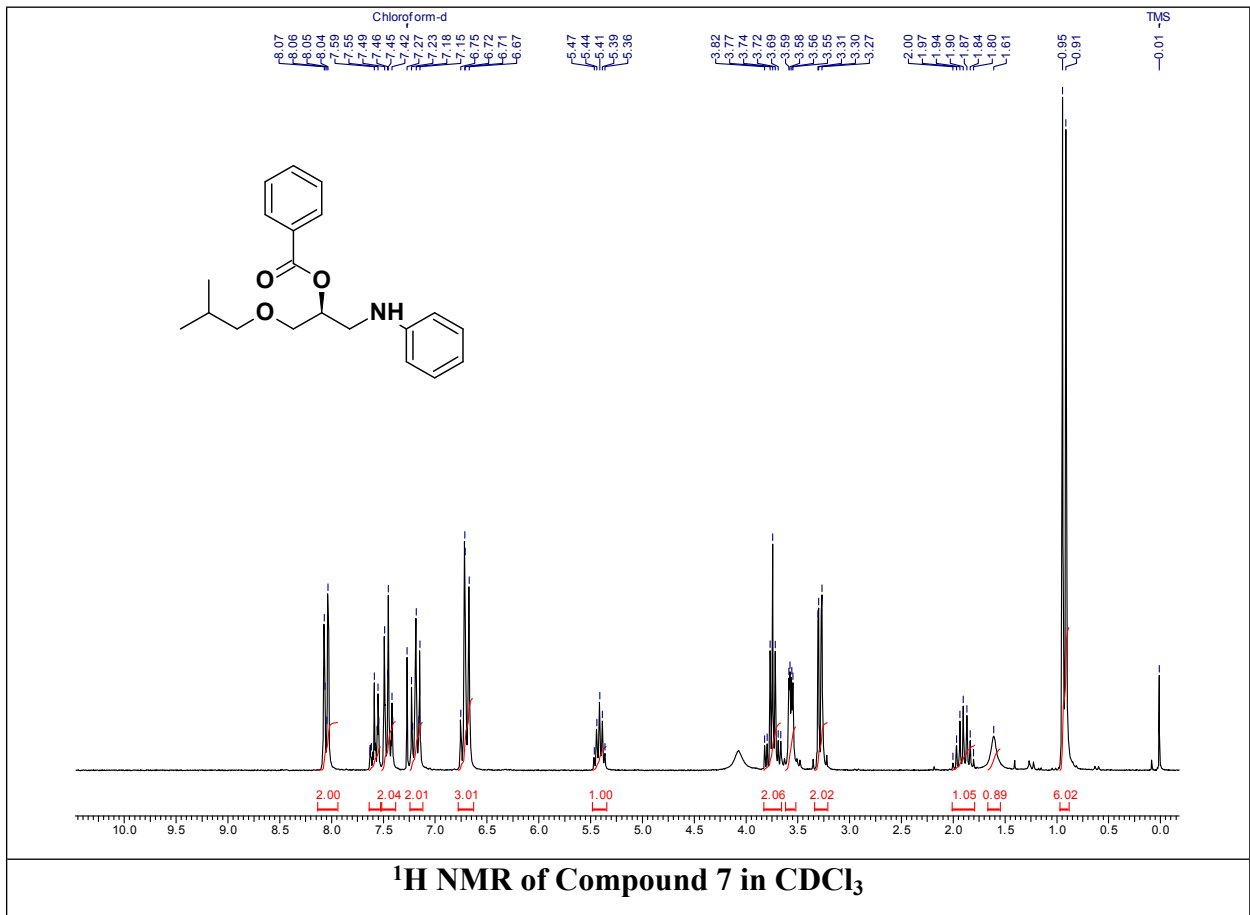
### Chiral Sample Chromatograph

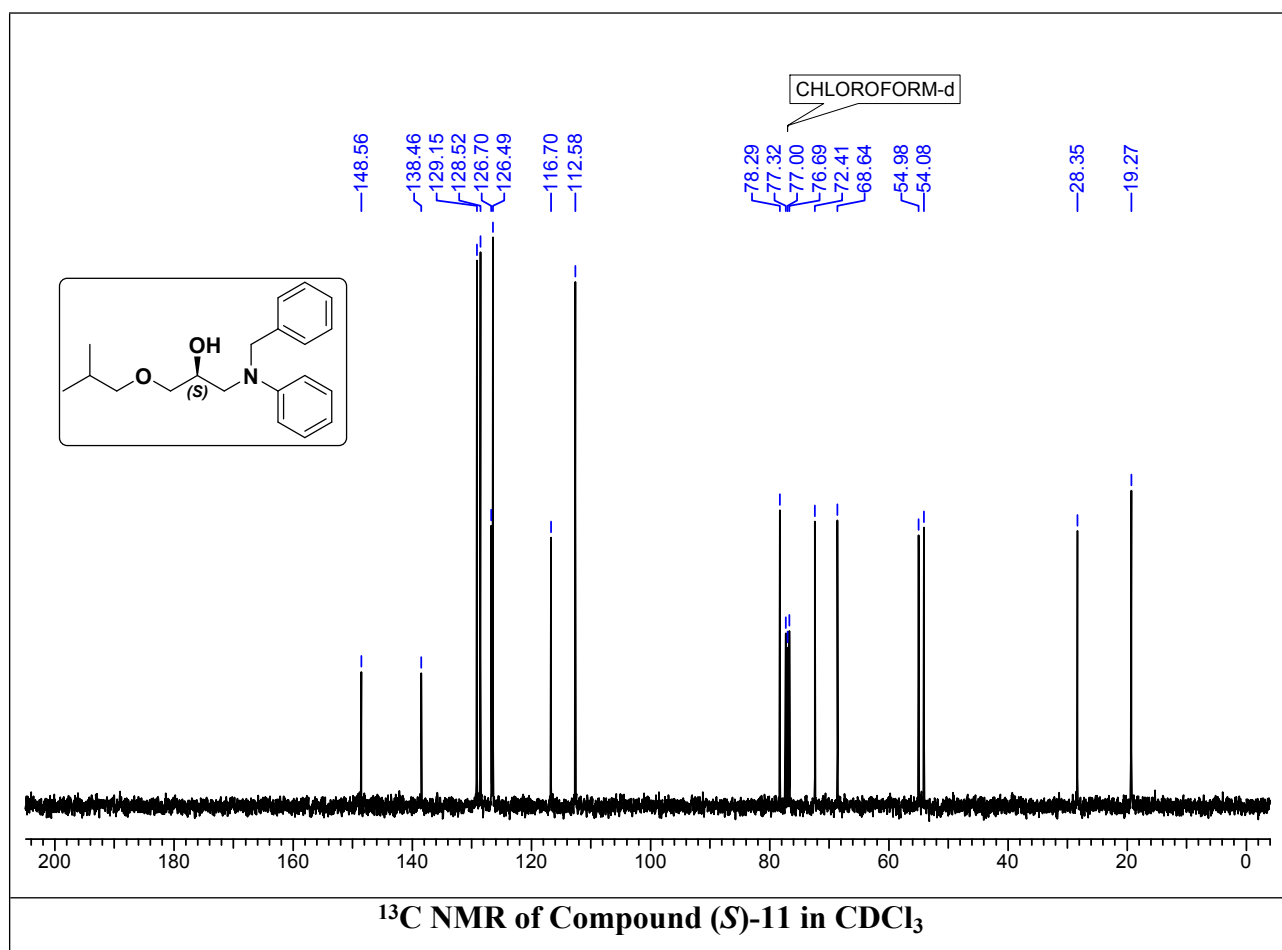
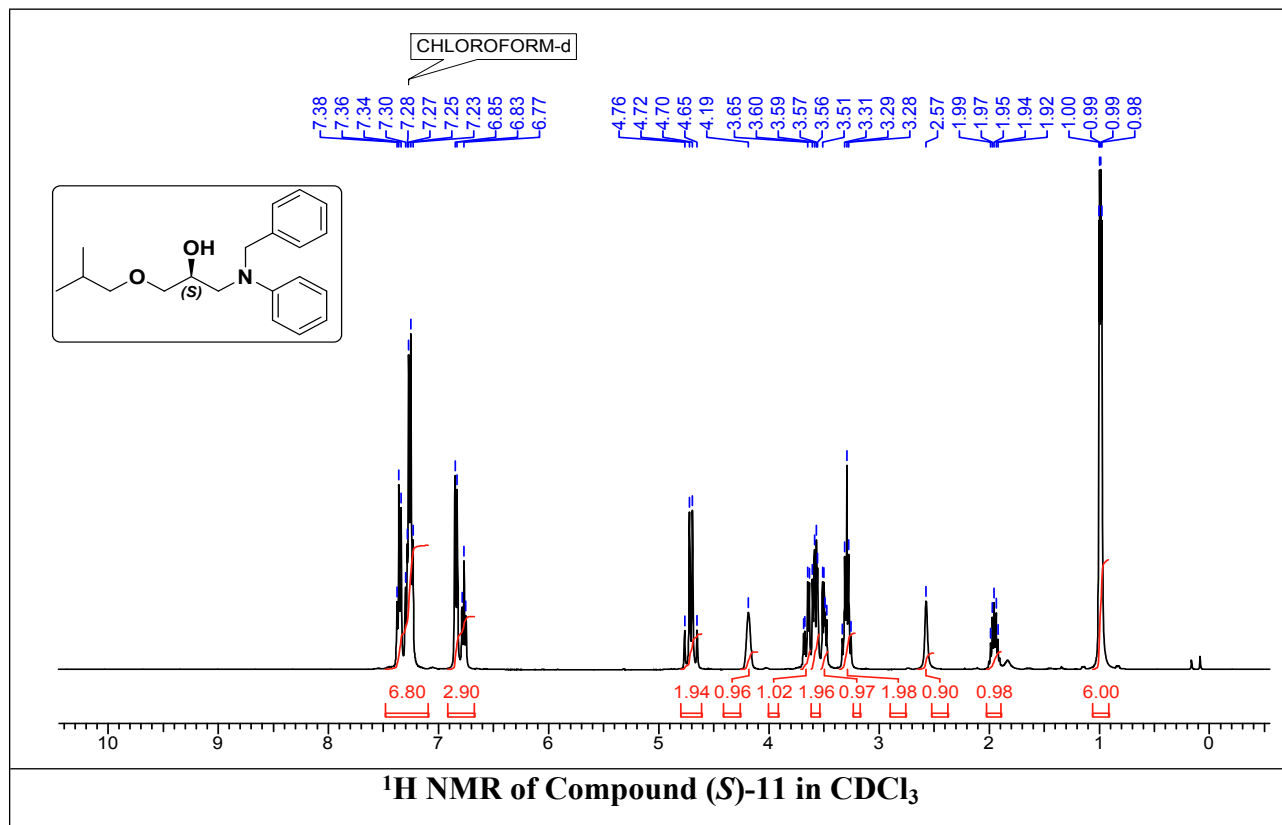
Pk #	Retention Time (mins)	Area	Area %
1	11.050	7040195	100.000
<b>Totals</b>		<b>7040195</b>	<b>100.000</b>





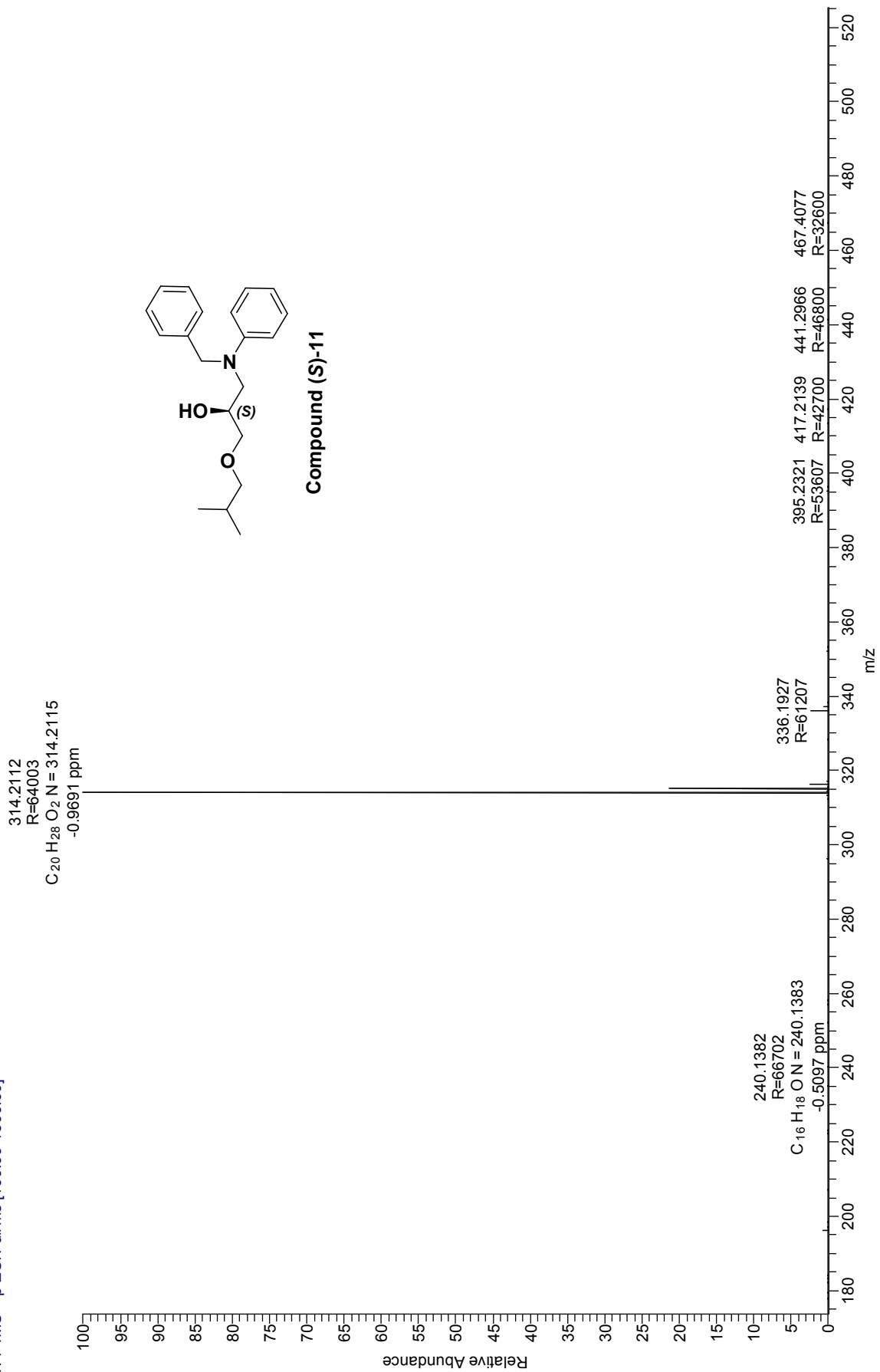


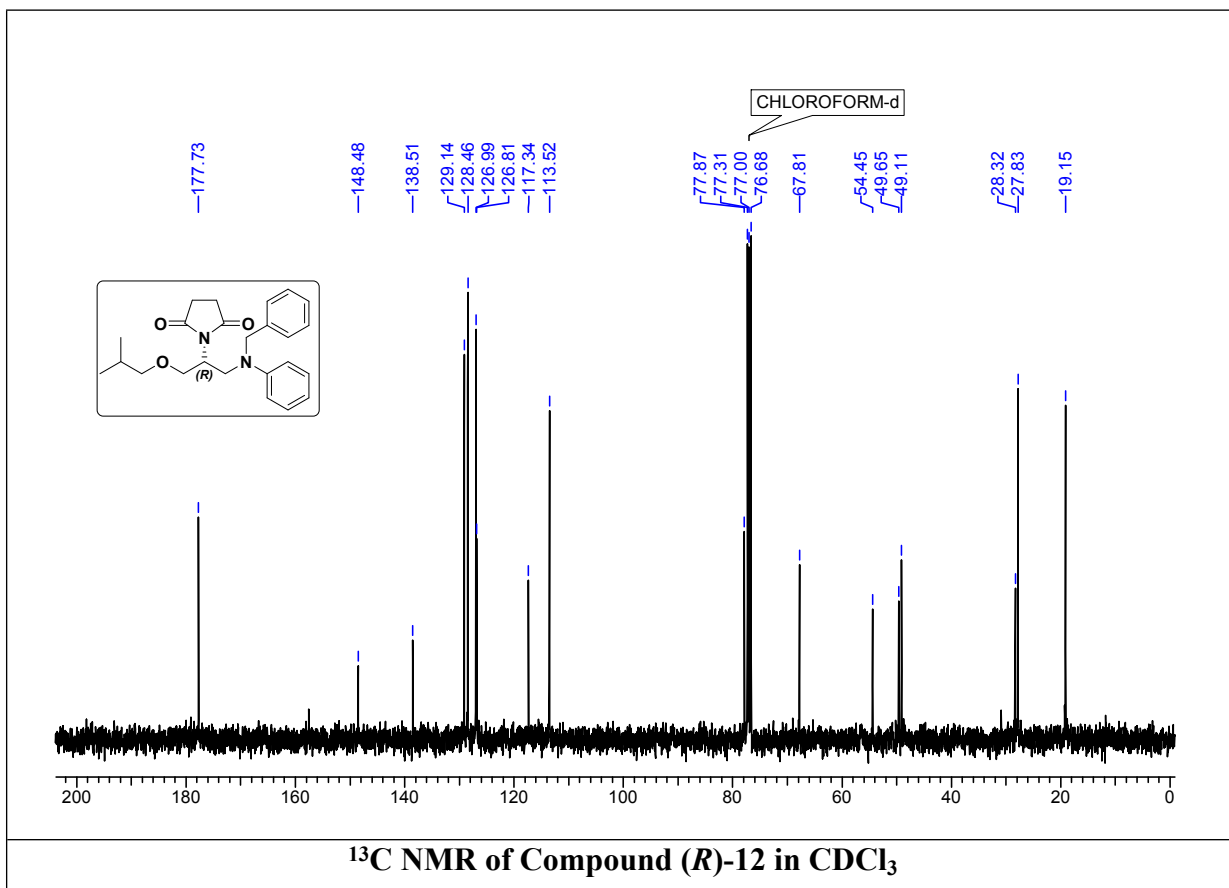
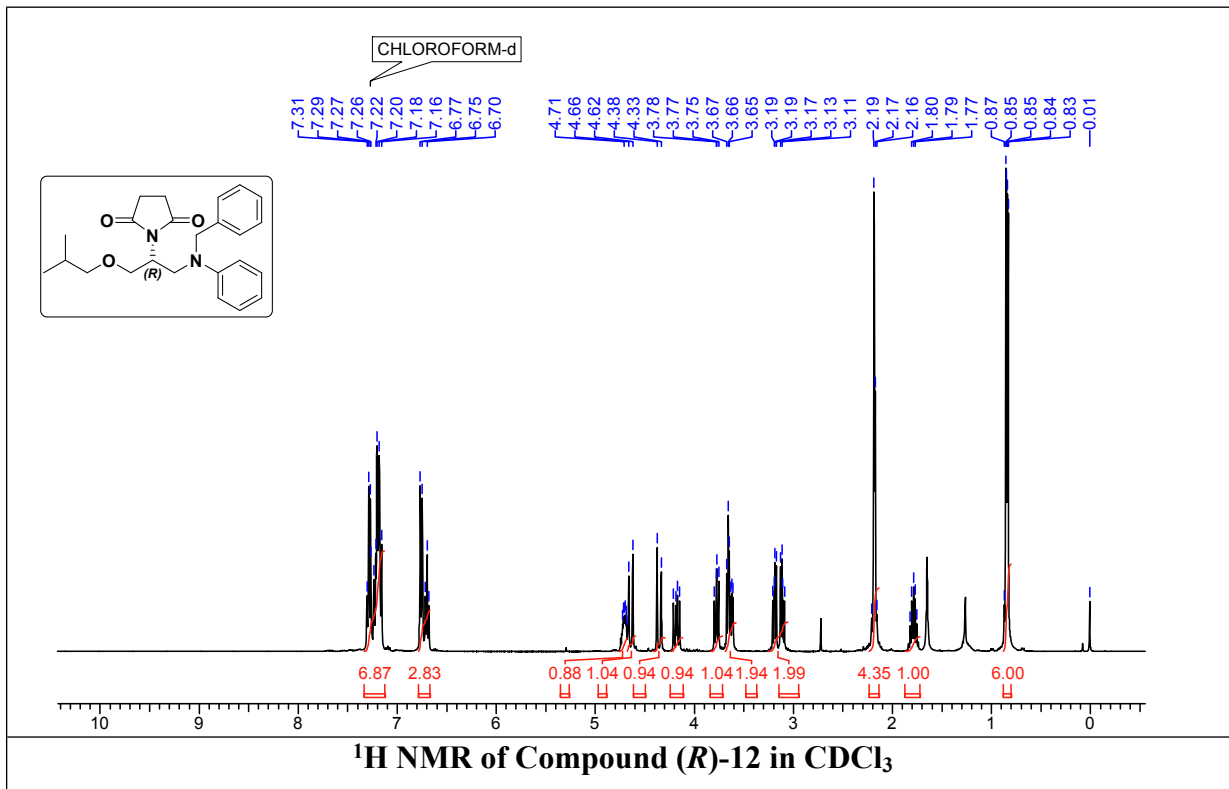




# HRMS of compound (S)-11

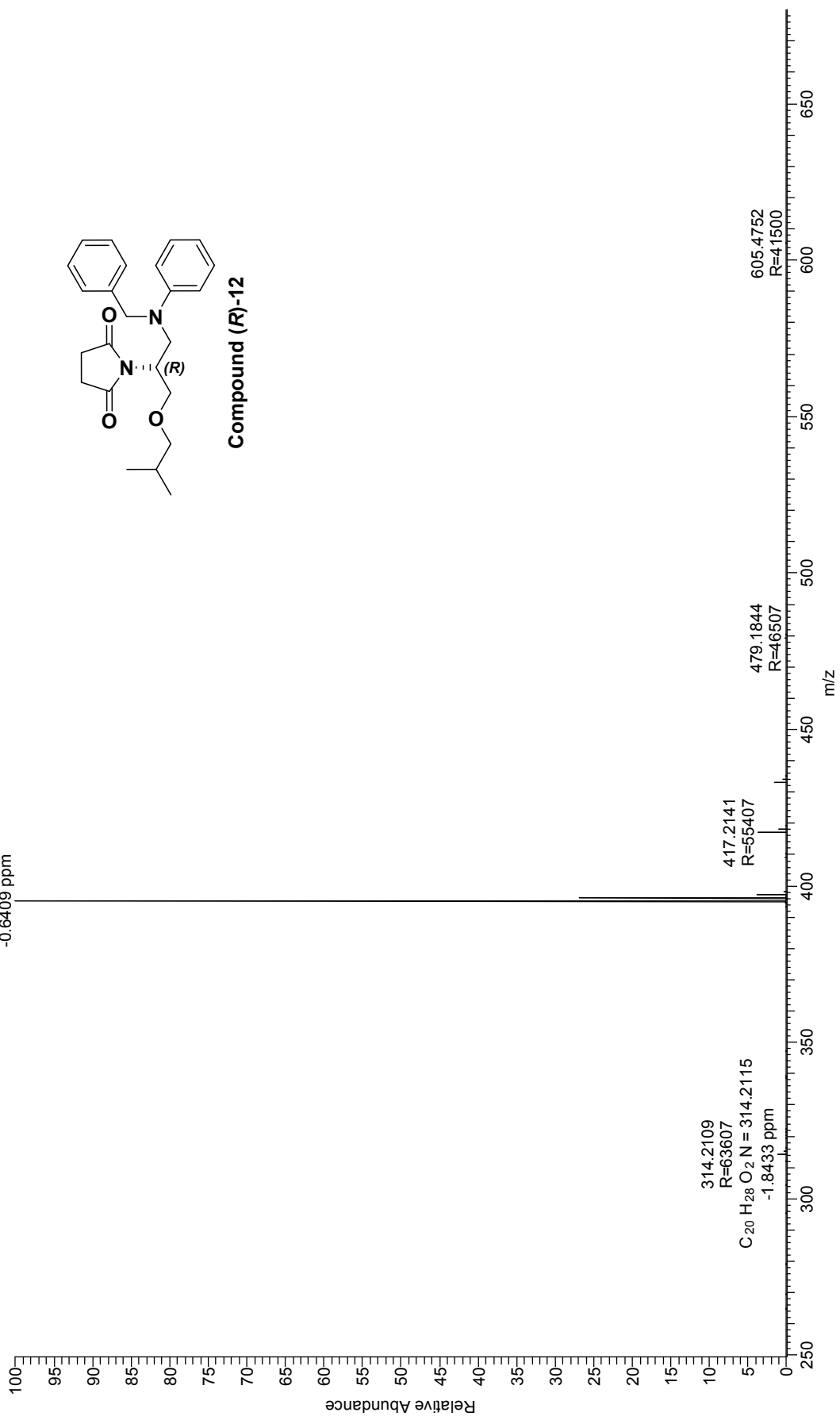
SJ-271 #145 RT: 0.64 AV: 1 NL: 1.06E10  
T: FTMS + p ESI/Full ms [100.00-1500.00]

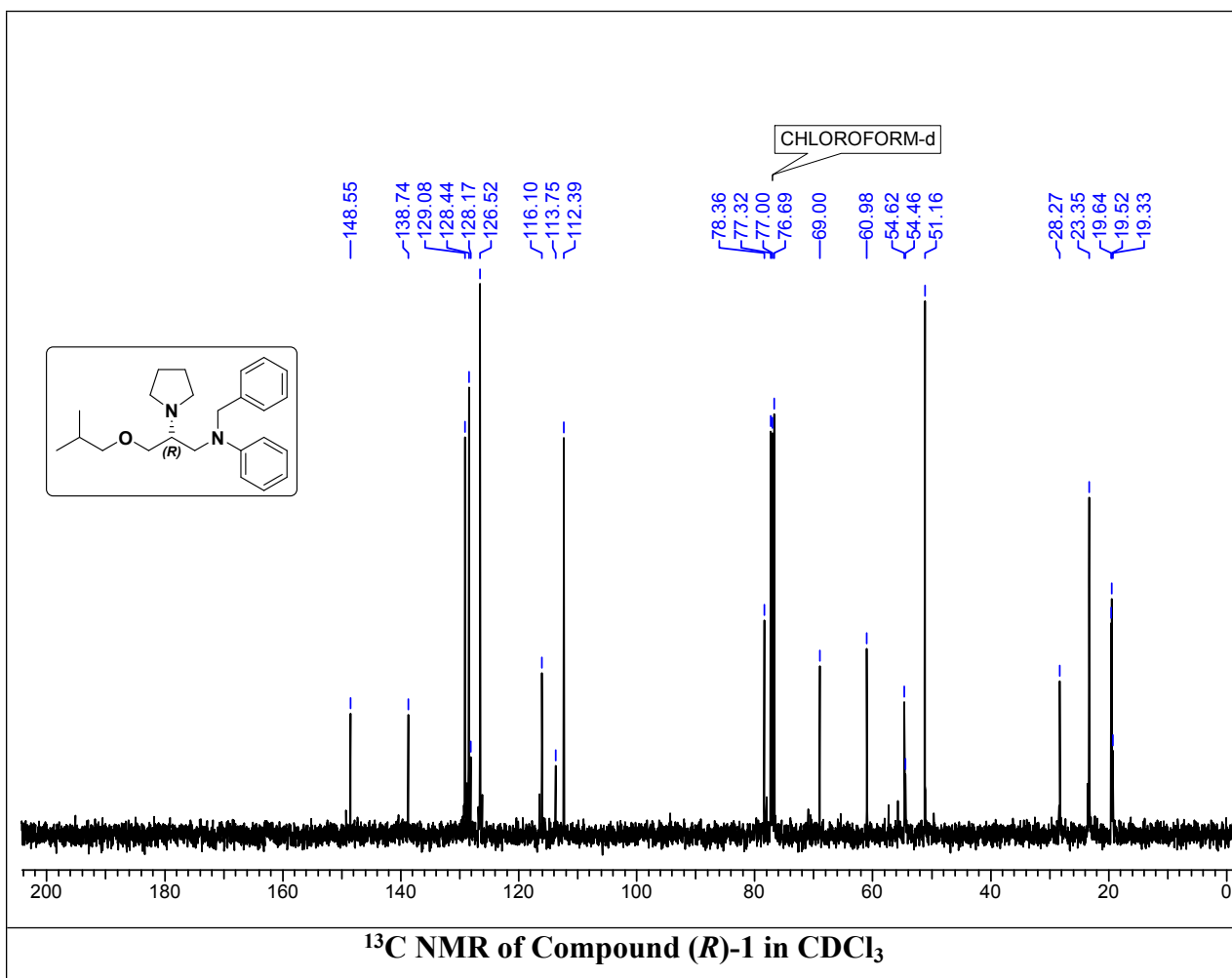
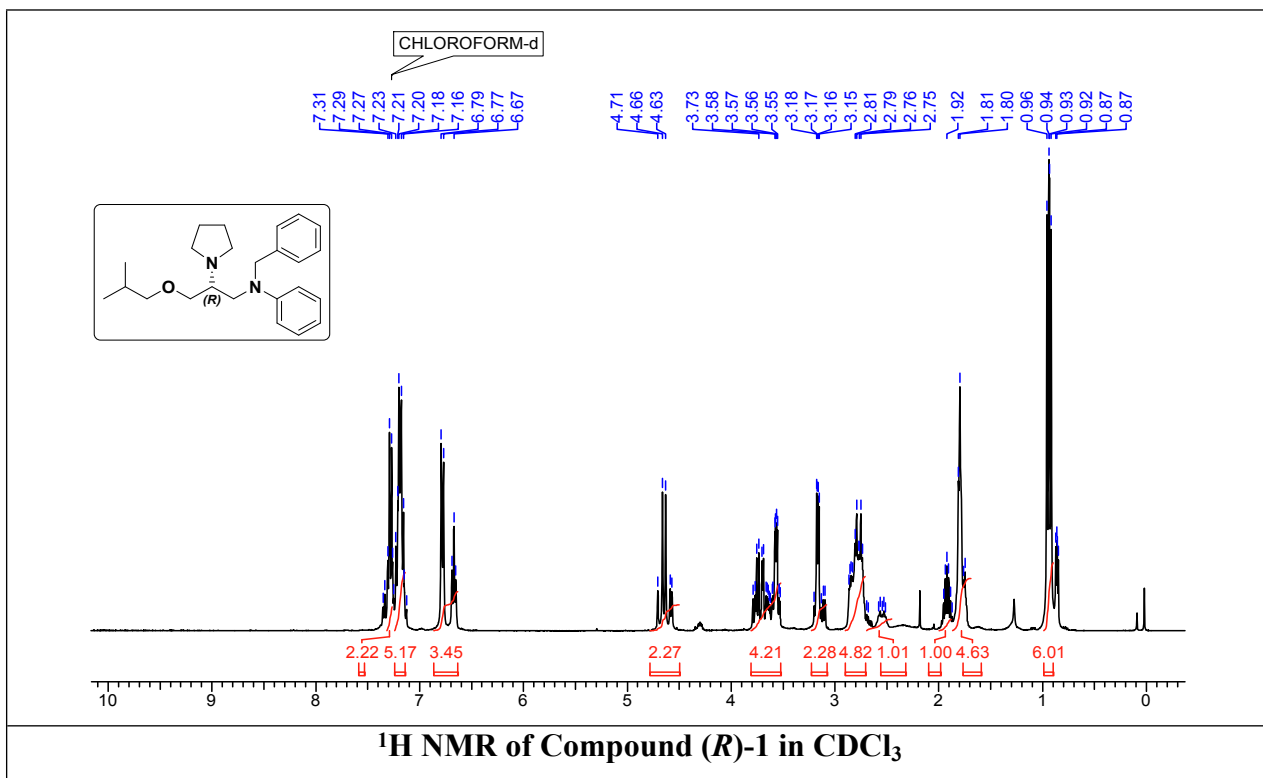




# HRMS of compound (R)-12

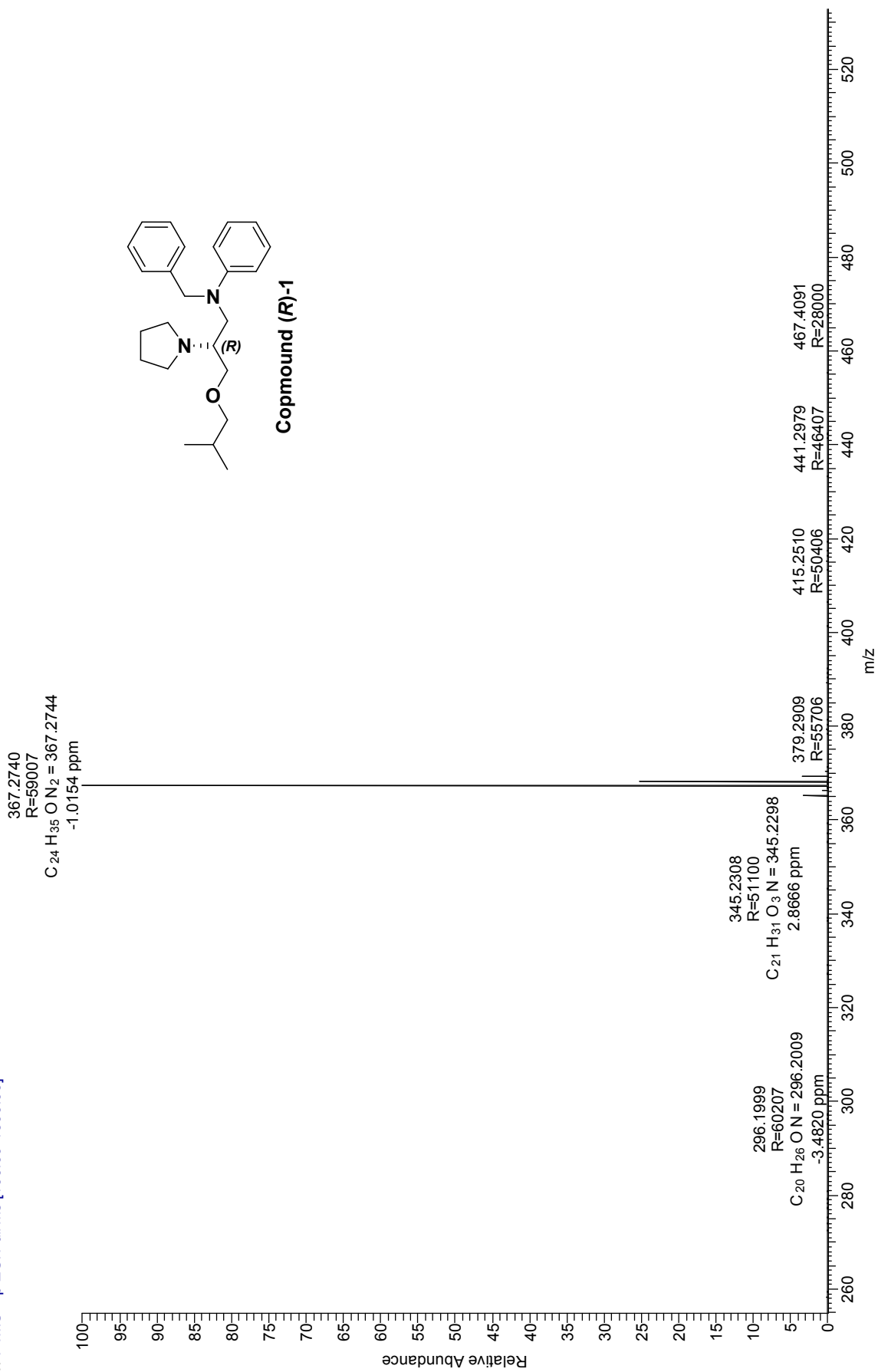
SJ-272 #141 RT: 0.63 AV: 1 NL: 9.65E9  
T: FTMS + p ESI/Full.ms [100.00-1500.00]





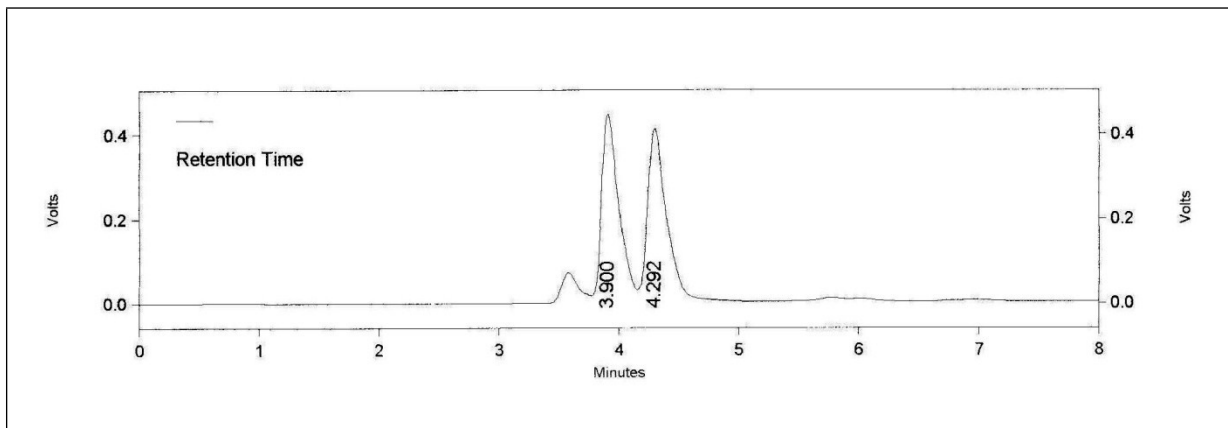
# HRMS of compound (R)-1

SJ-273 #88 RT: 0.39 AV: 1 NL: 4.66E9  
T: FTMS + pESI/Full.ms [100.00-1500.00]



### Chiral HPLC Analysis of Compound 1 (racemic)

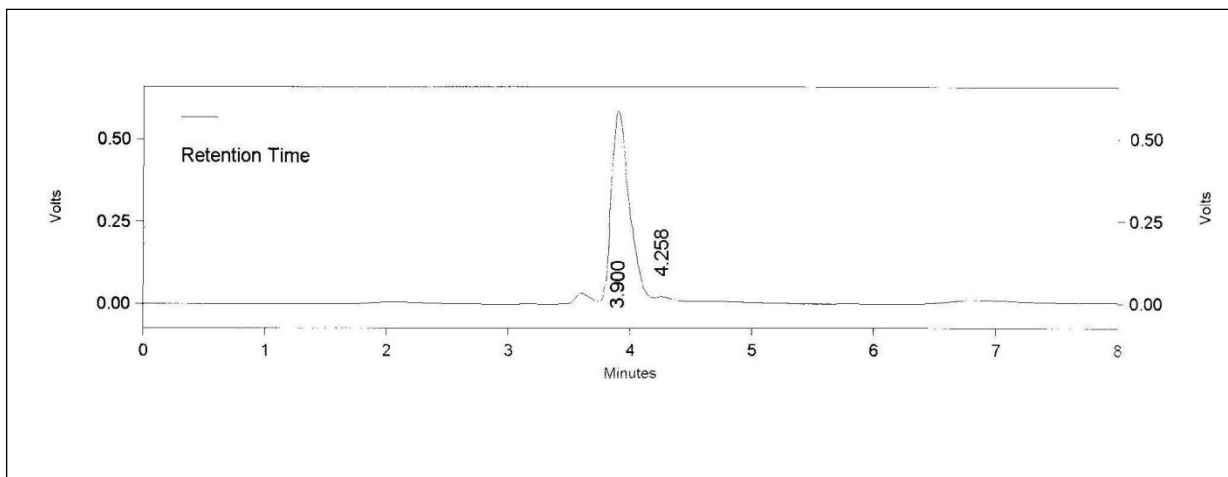
Conditions: Chiralcel OD-H (250 X 4.6 mm) column; eluent: Ethanol/n-Hexane/DEA (2:98:0.1); flow rate: 1 mL/min; detector 254 nm.



**Racemic Sample Chromatograph**

Pk #	Retention Time (mins)	Area	Area %
1	3.900	2045706	50.114
2	4.292	2036406	49.886
<b>Totals</b>		<b>4082112</b>	<b>100.000</b>

### Chiral HPLC Analysis of Compound (R)-1

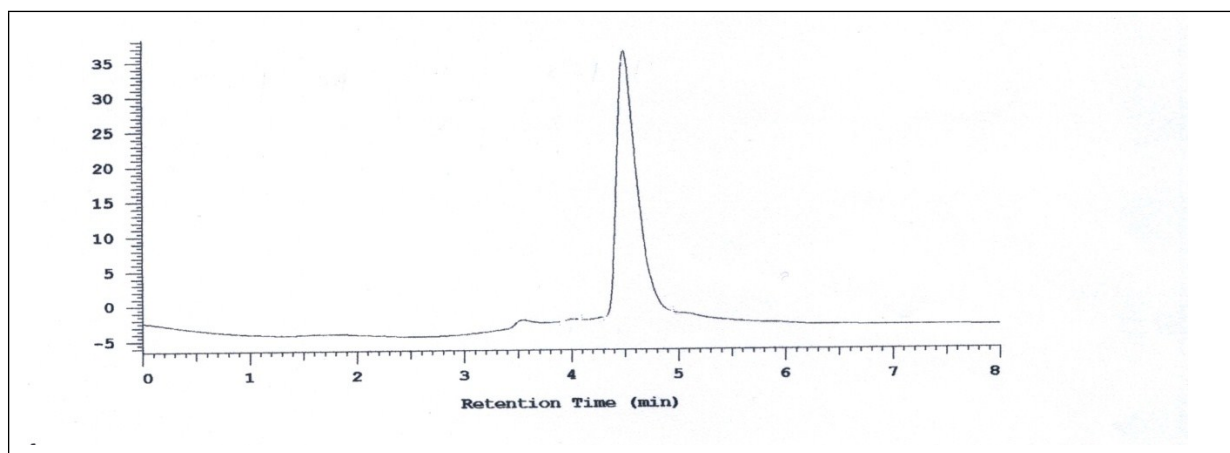


**Chiral -(R) Sample Chromatograph**

Pk #	Retention Time (mins)	Area	Area %
1	3.900	2848992	99.558
2	4.258	12653	0.442
<b>Totals</b>		<b>2861645</b>	<b>100.000</b>



## Chiral HPLC Analysis of Compound of (S)-1



*Chiral -(S) Sample Chromatograph*

<b>Pk #</b>	<b>Retention Time (mins)</b>	<b>Area</b>	<b>Area %</b>
<b>1</b>	<b>4.00</b>	<b>1304</b>	<b>0.268</b>
<b>2</b>	<b>4.49</b>	<b>485825</b>	<b>99.732</b>
<b>Totals</b>		<b>487129</b>	<b>100.000</b>