

Supporting Information-II

NMR Spectral Data

Direct Organocatalytic Transfer Hydrogenation and C-H Oxidation: High-Yielding Synthesis of 3-Hydroxy-3-alkyloxindoles

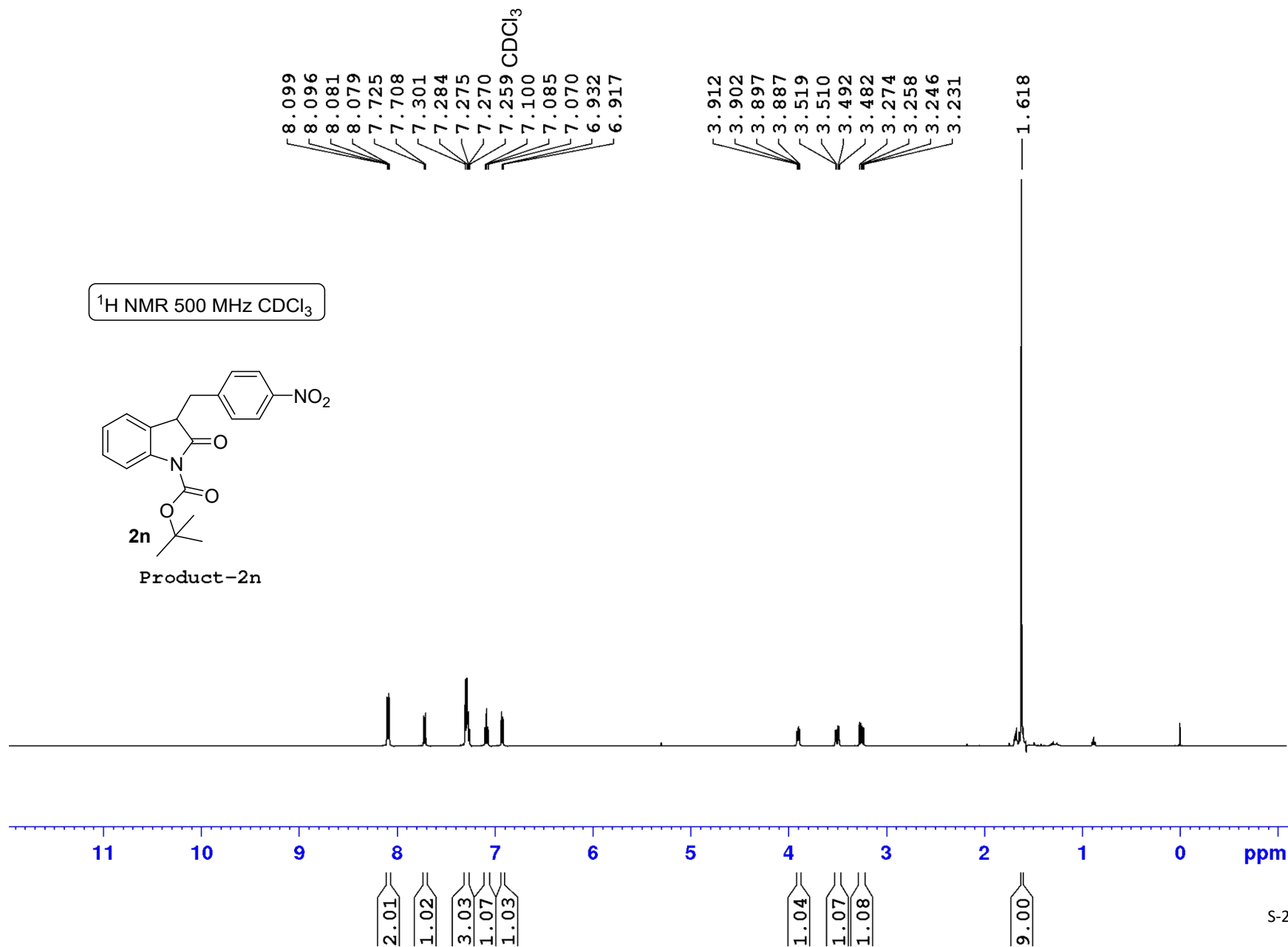
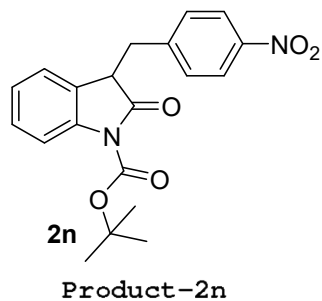
Pritam Roy, S. Rehana Anjum, Shyam D. Sanwal and Dhevalapally B. Ramachary*

Catalysis Laboratory, School of Chemistry, University of Hyderabad, Central University (P.O.),

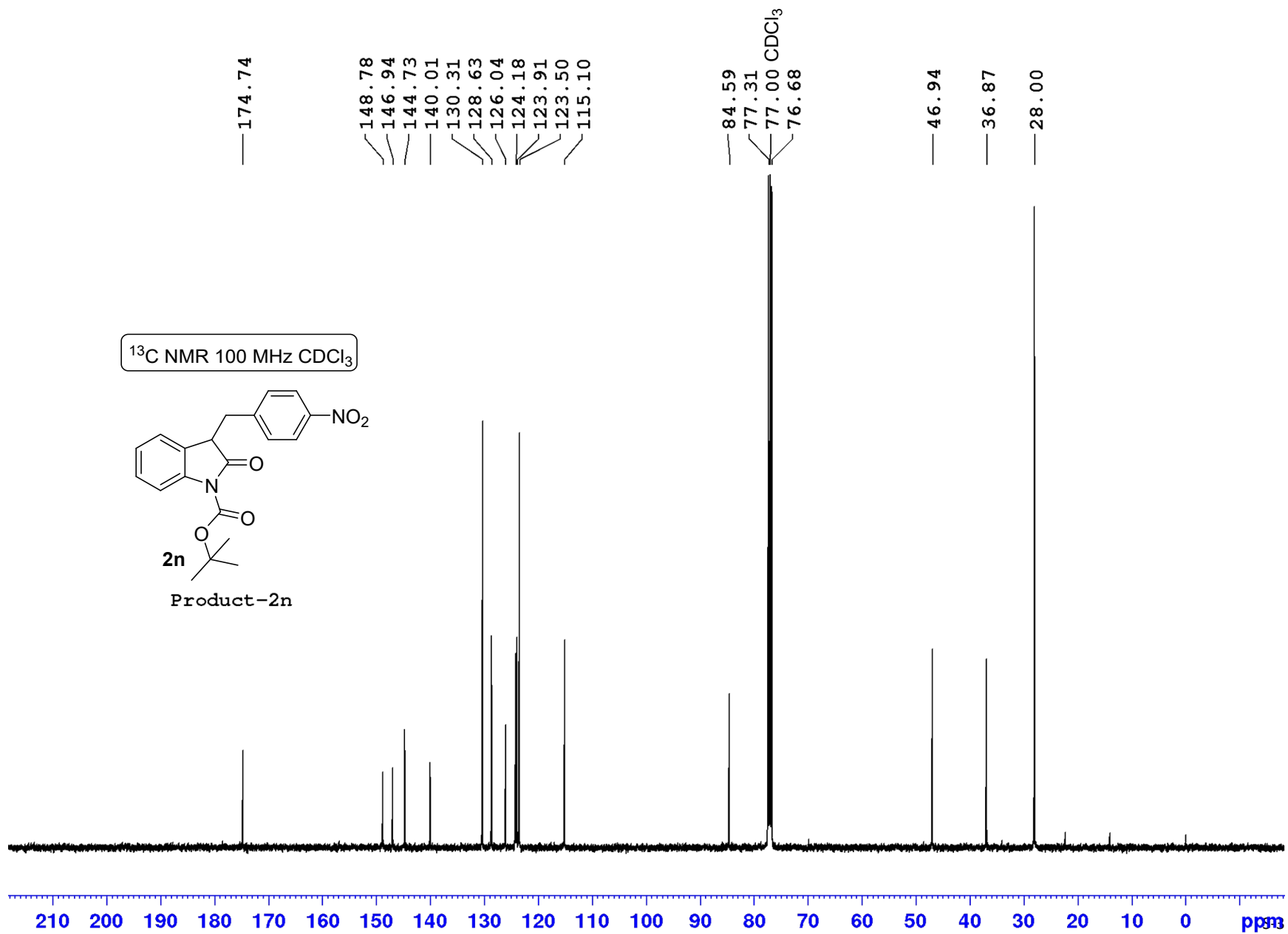
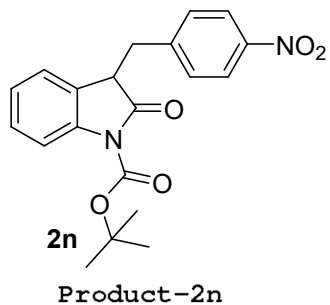
Hyderabad 500 046, India

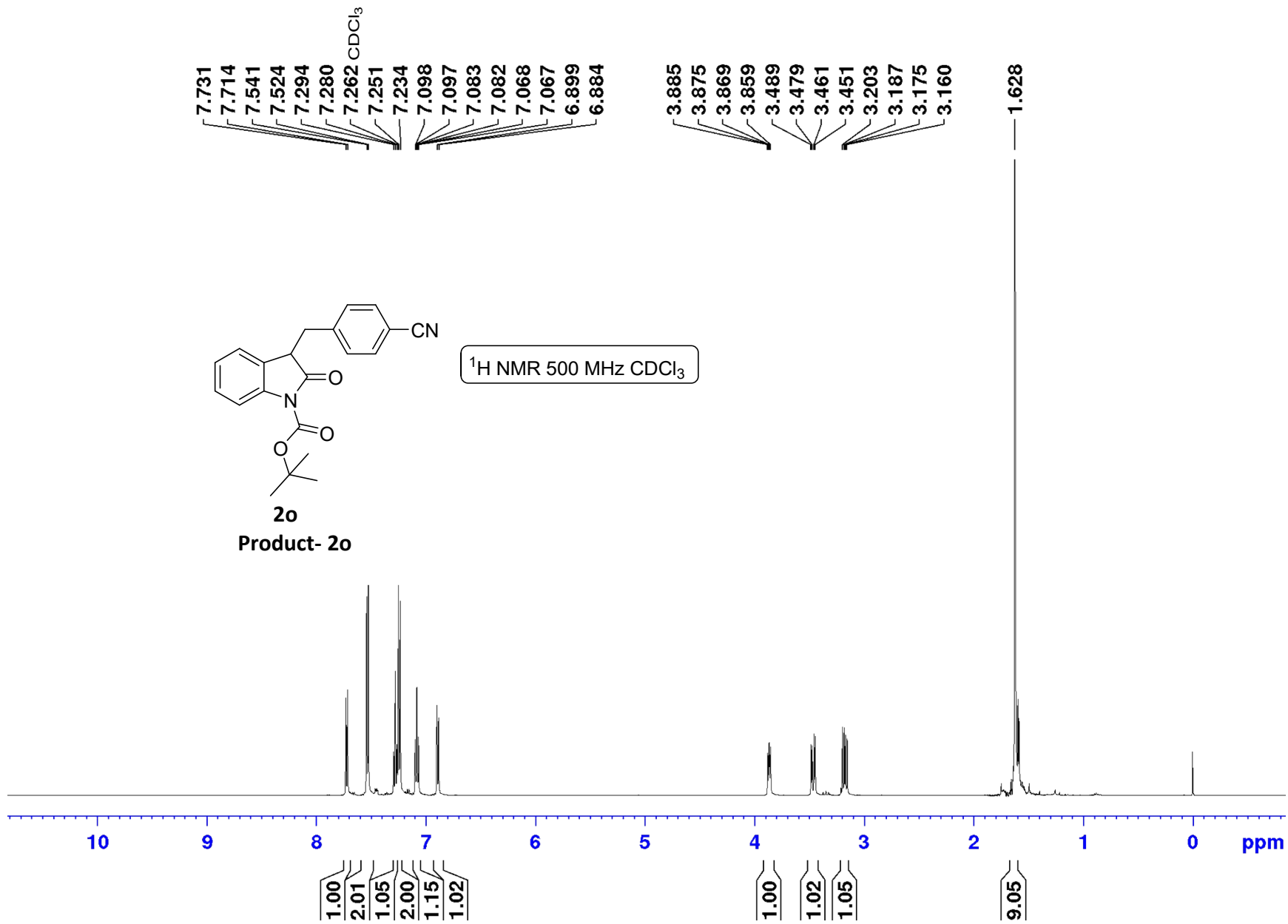
ramsc@uohyd.ac.in and ramchary.db@gmail.com

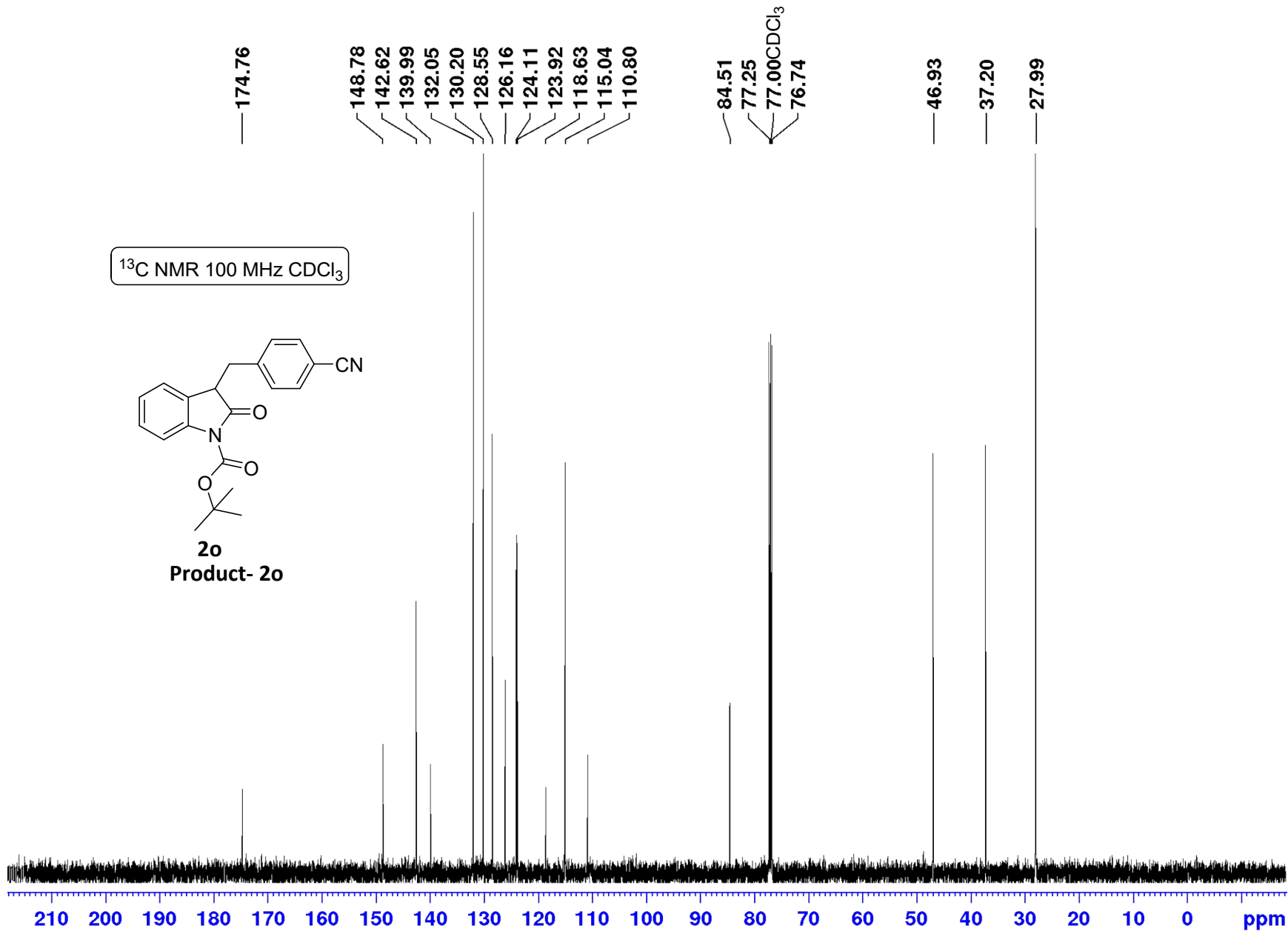
¹H NMR 500 MHz CDCl₃

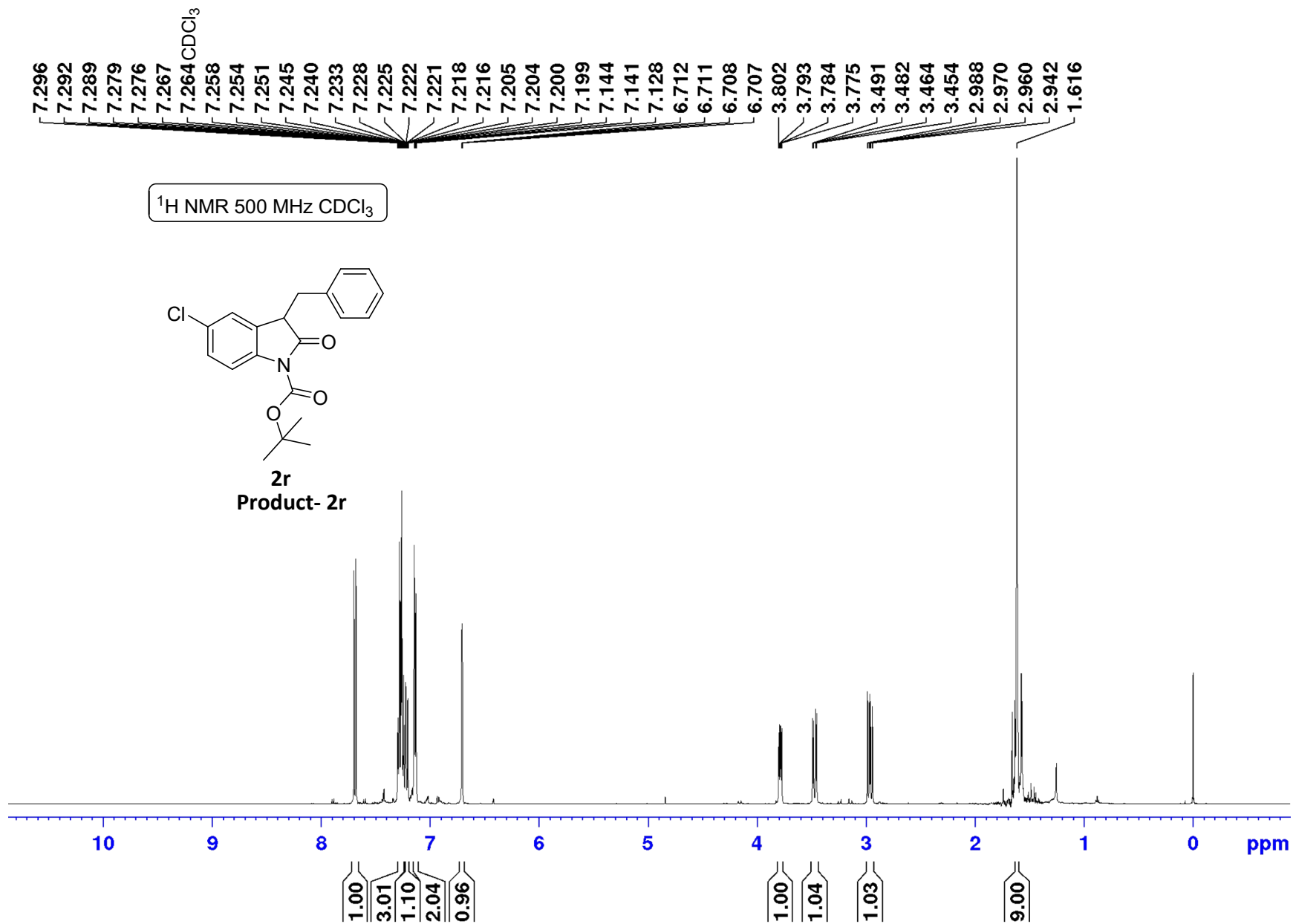


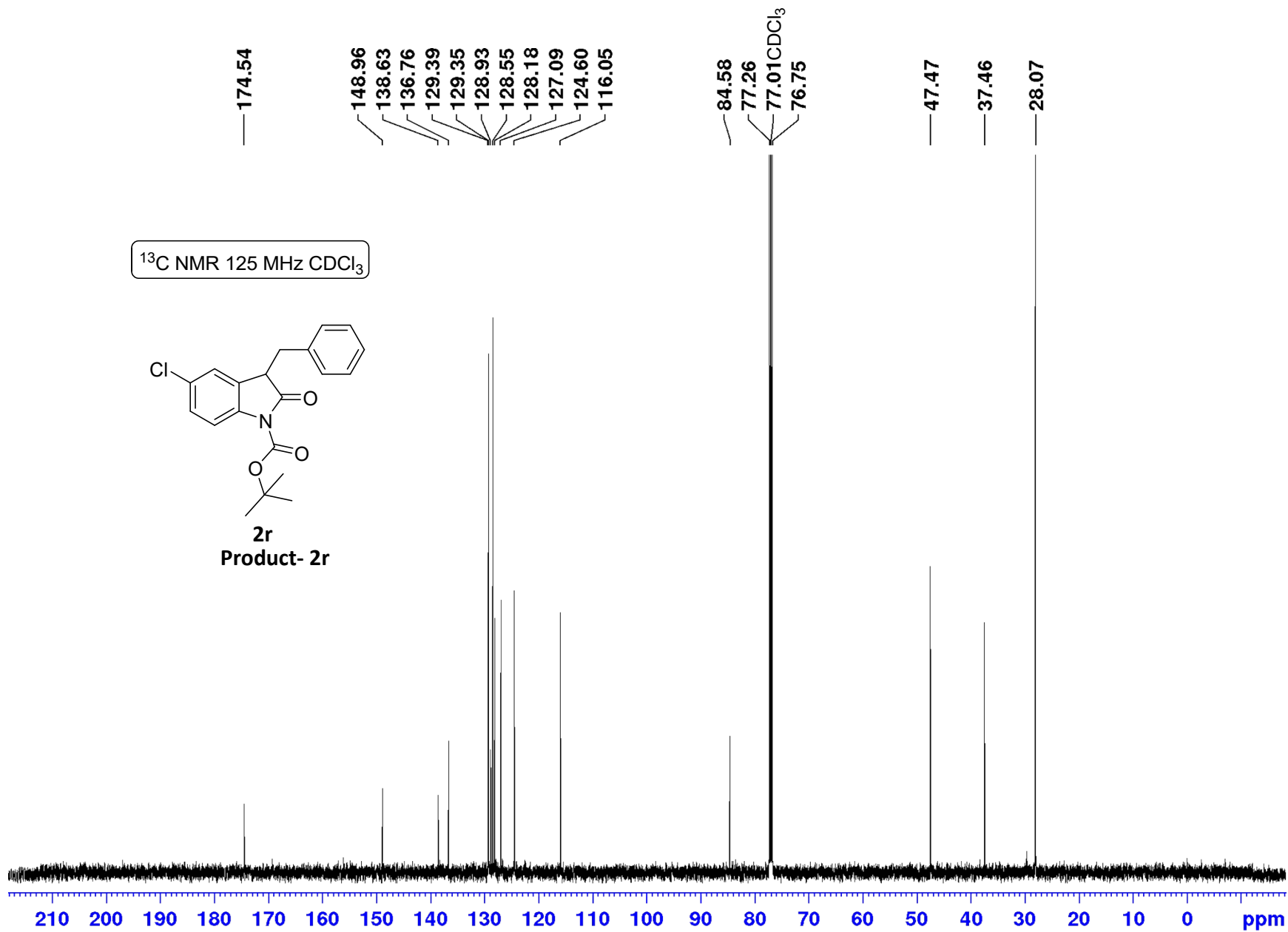
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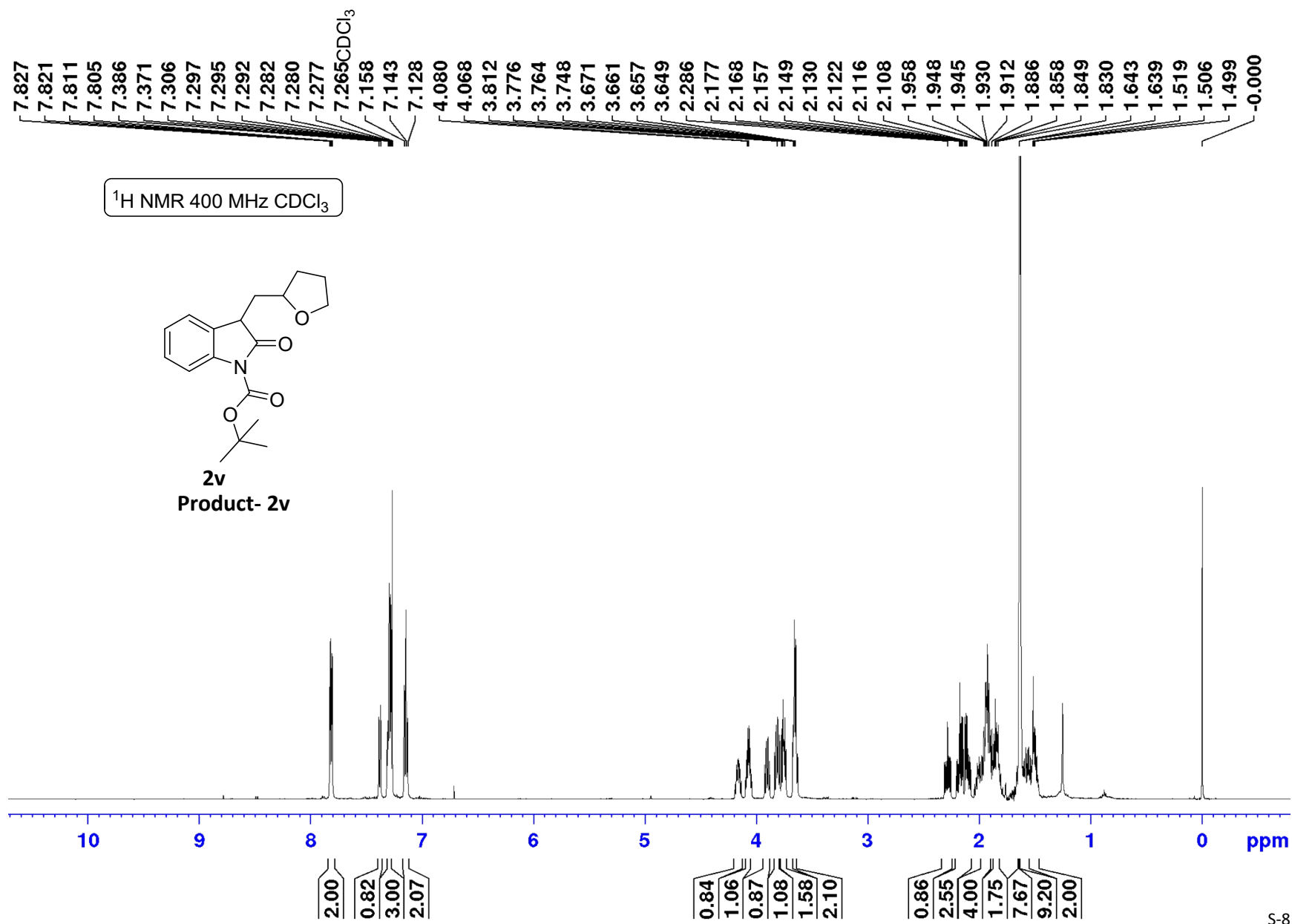


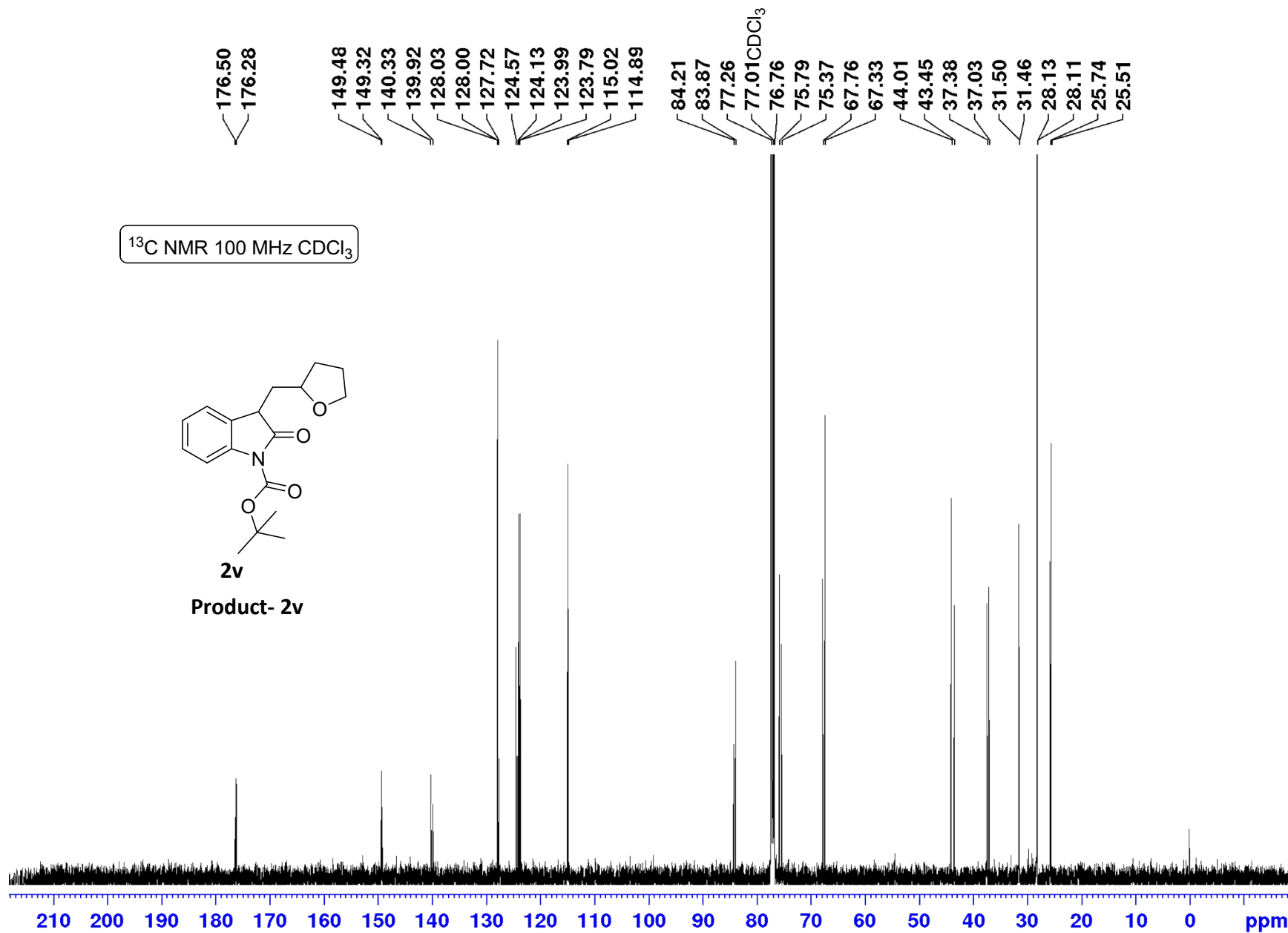


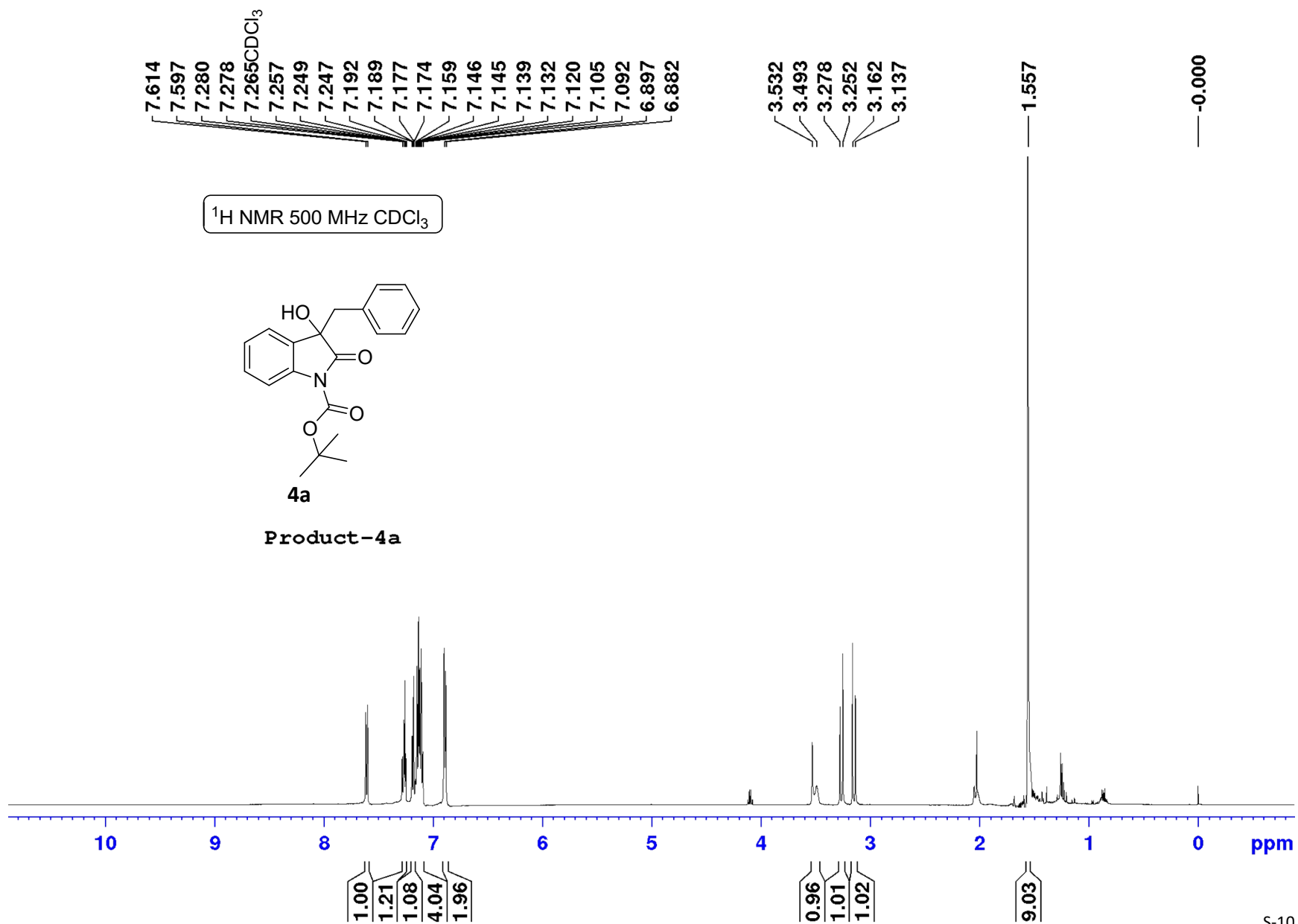


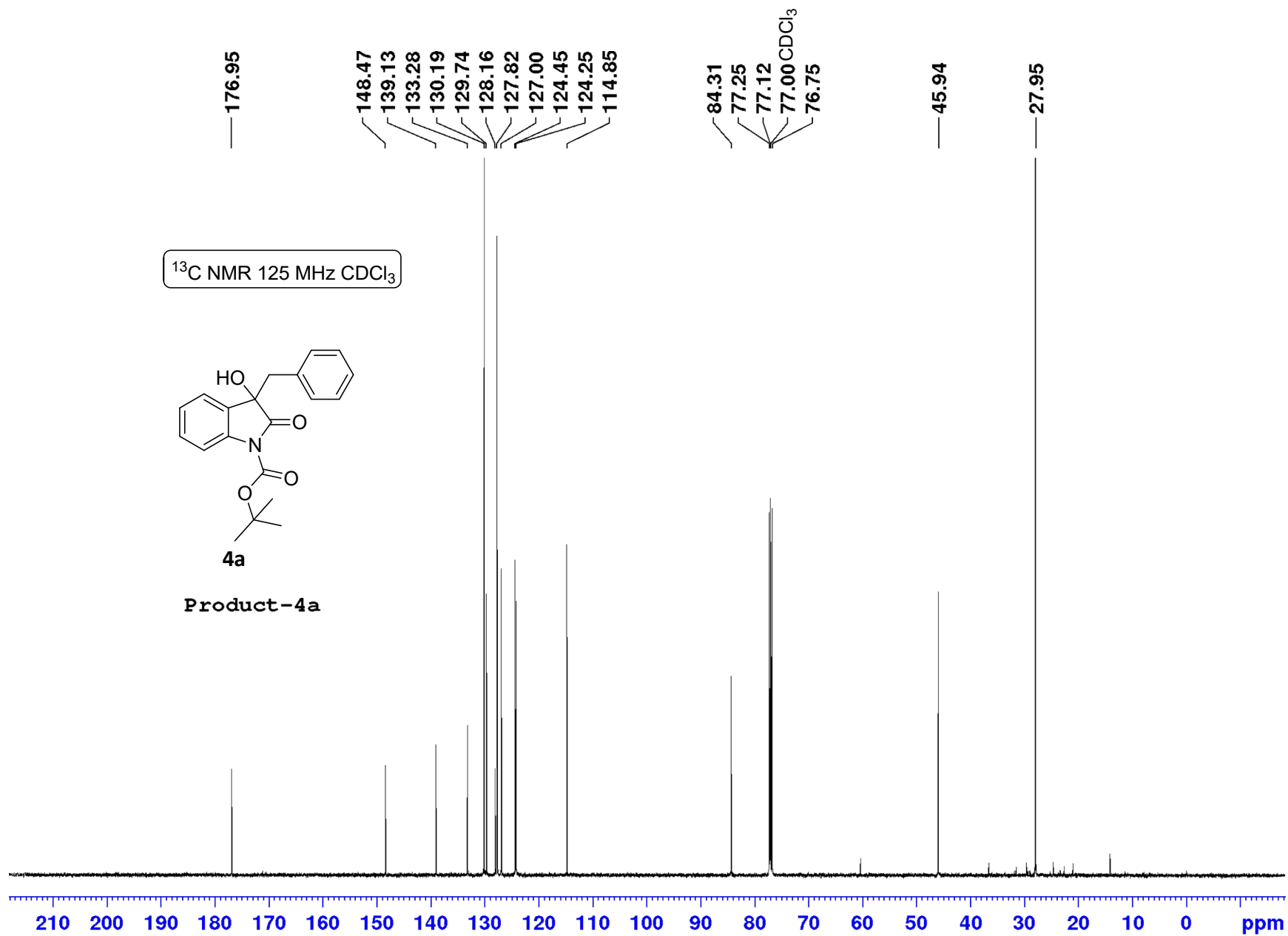


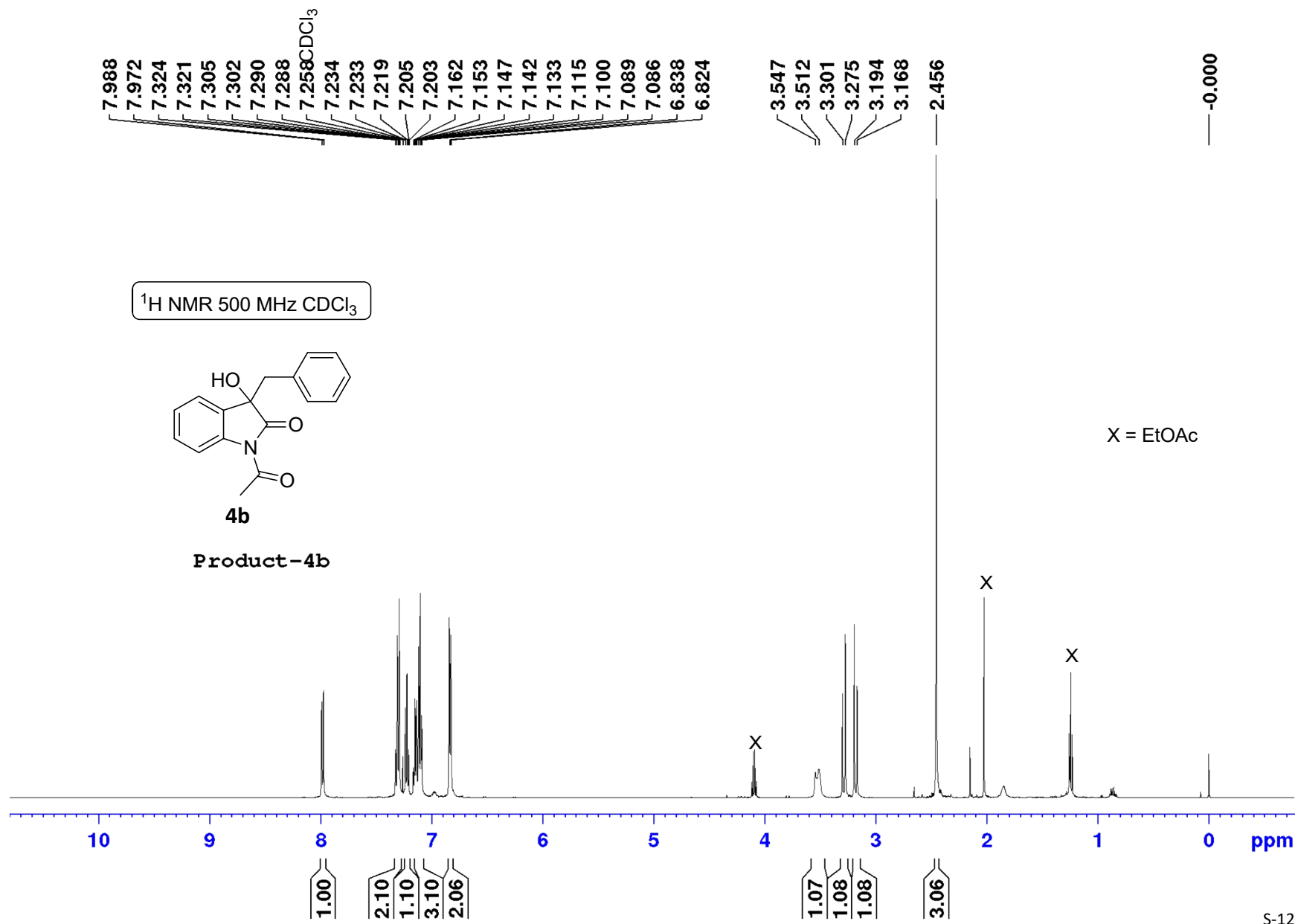


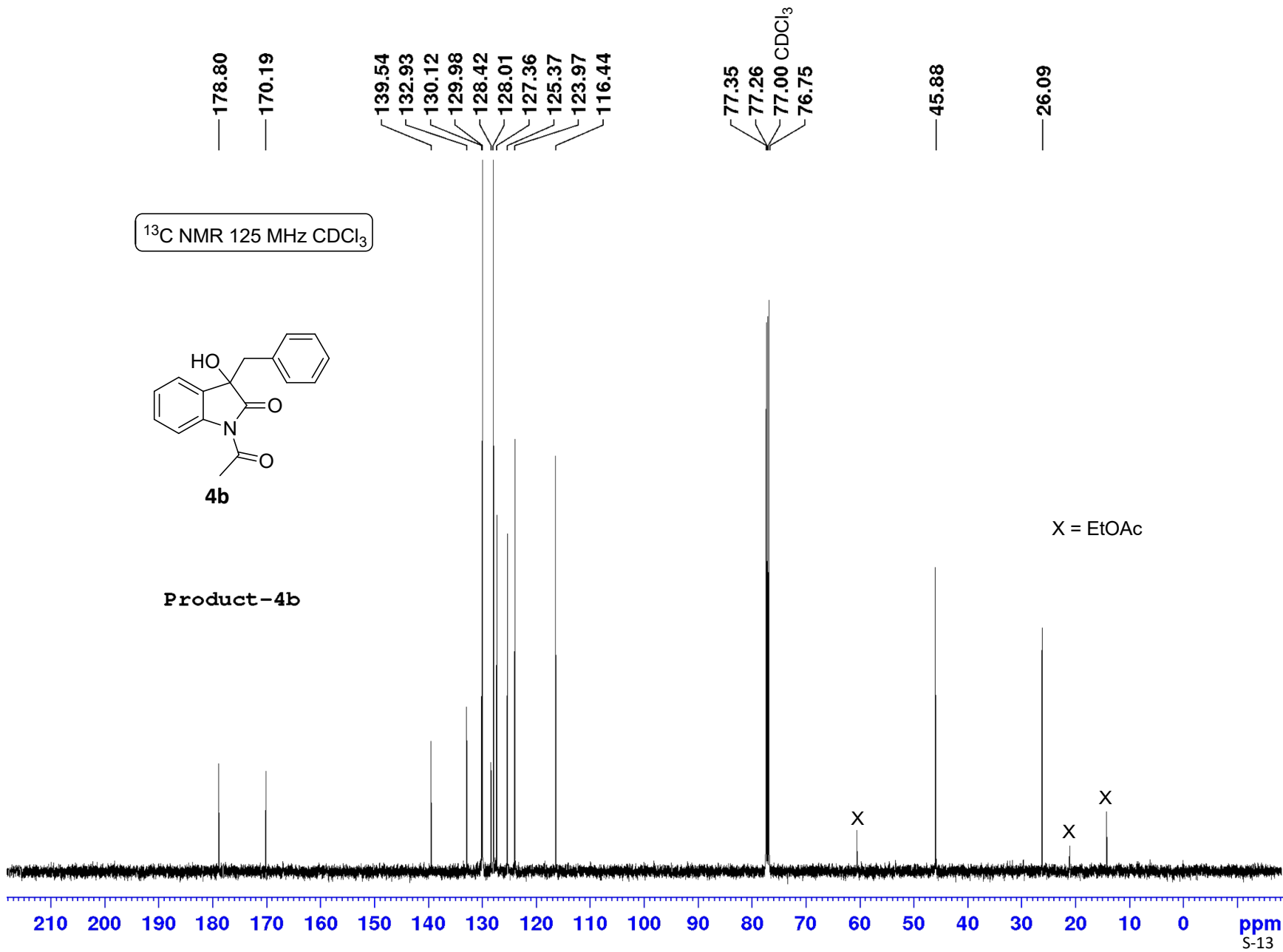


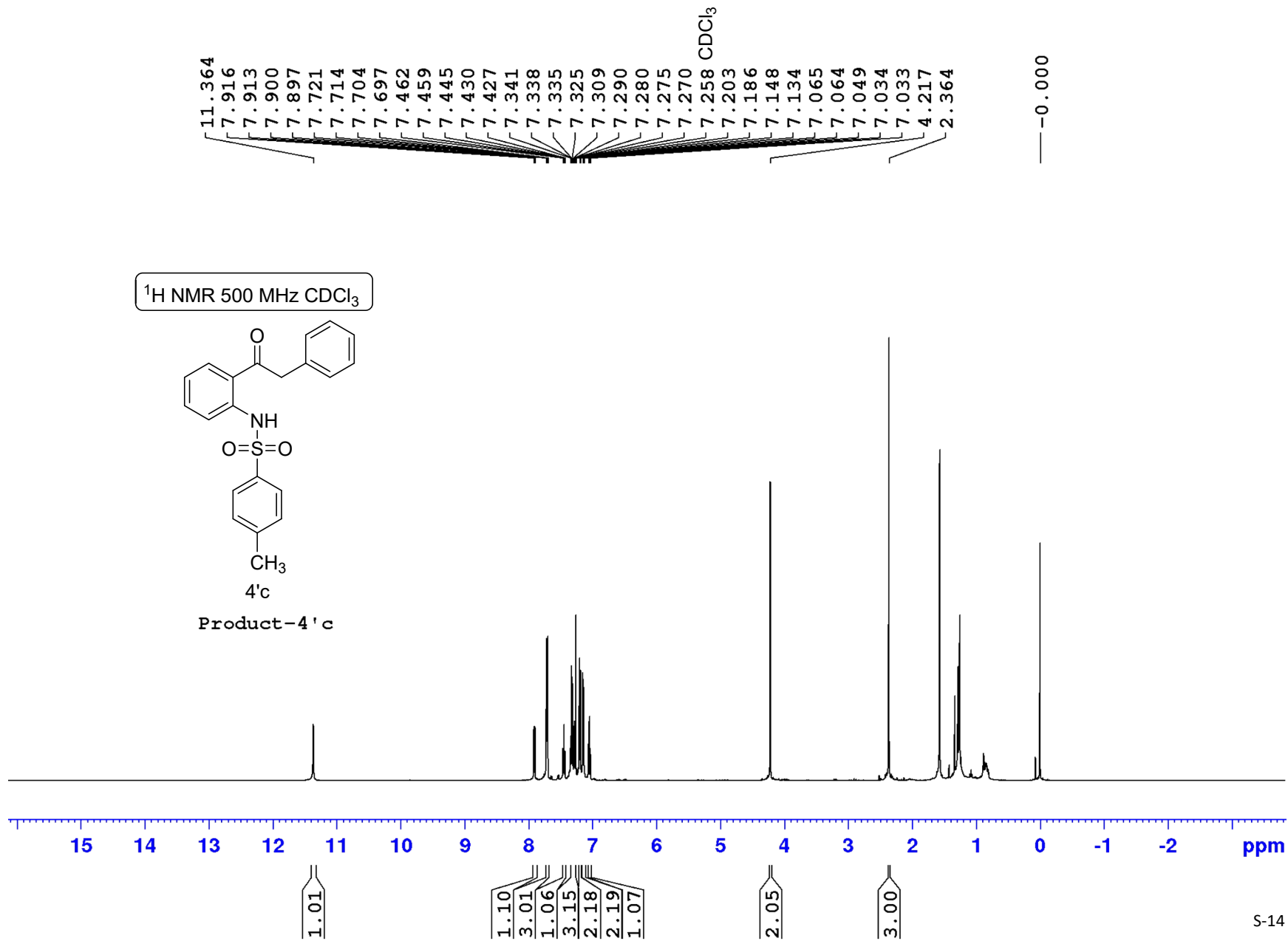












— 201.79

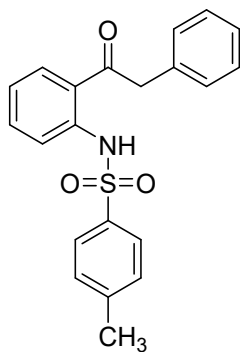
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140.58
136.66
134.92
133.92
131.52
129.60
129.30
128.73
127.23
127.15
122.57
121.75
119.42

77.25
77.00 CDCl₃
76.74

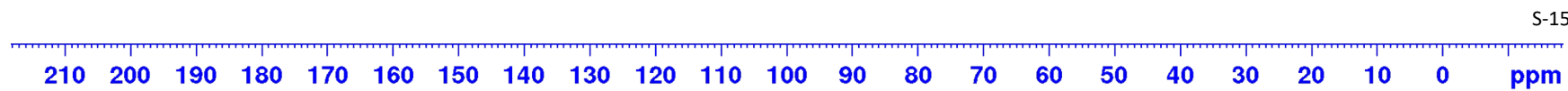
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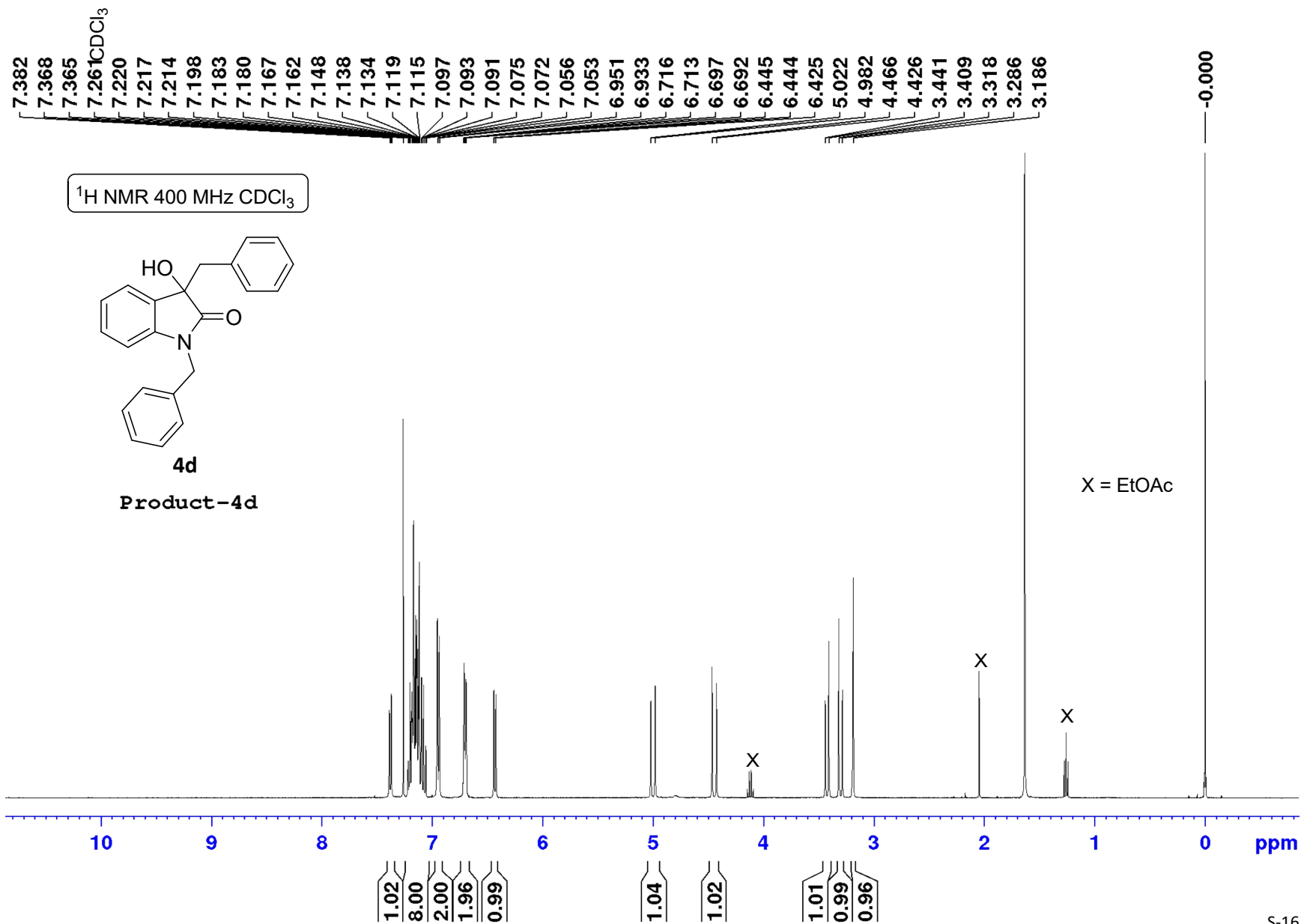
— 21.49

¹³C NMR 125 MHz CDCl₃

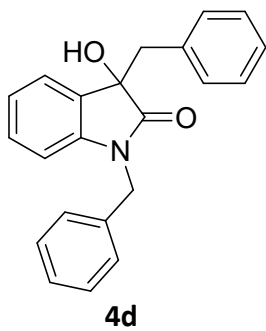


4'c
Product-4'c

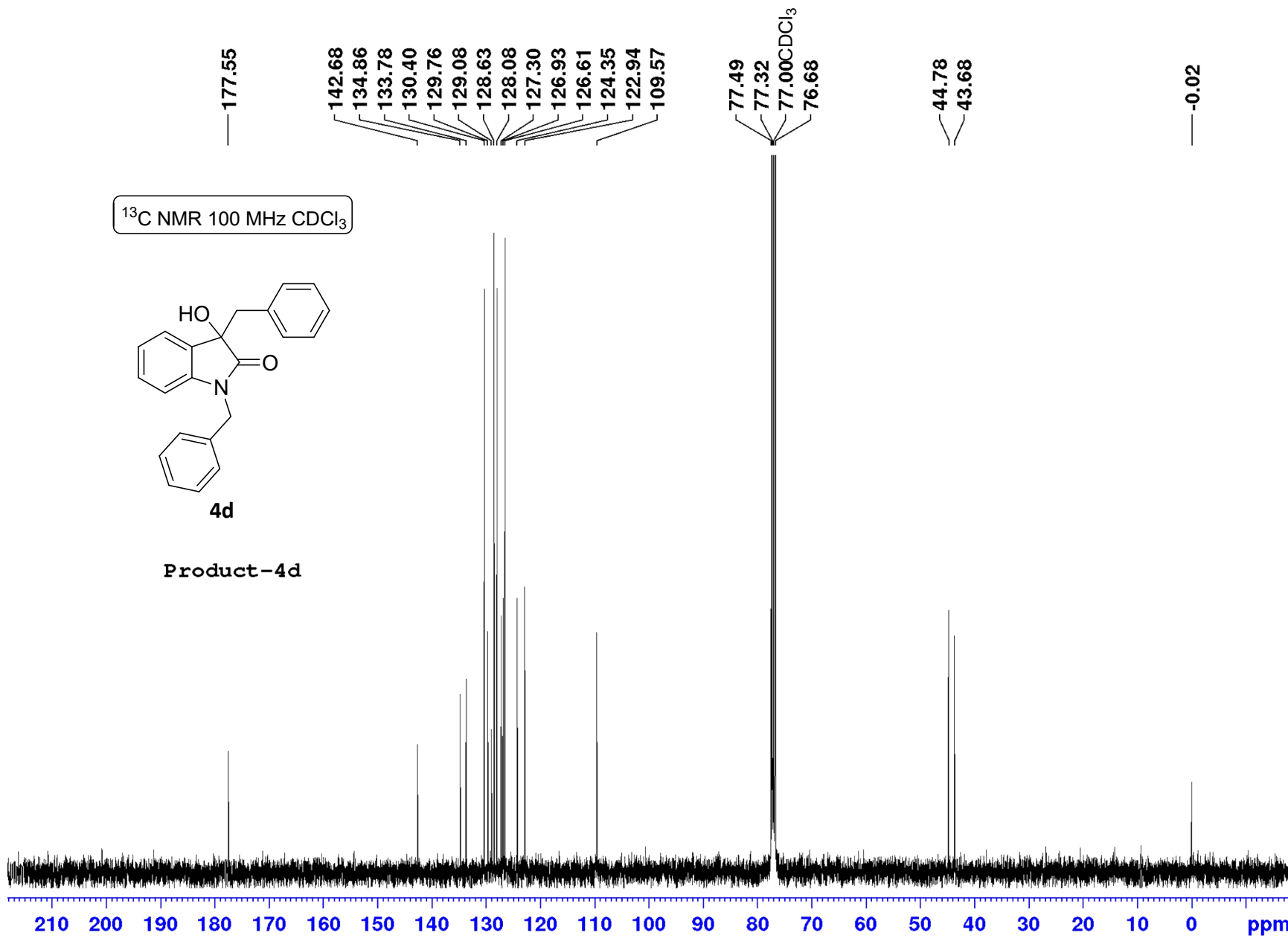




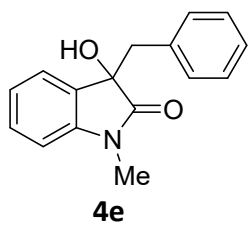
¹³C NMR 100 MHz CDCl₃



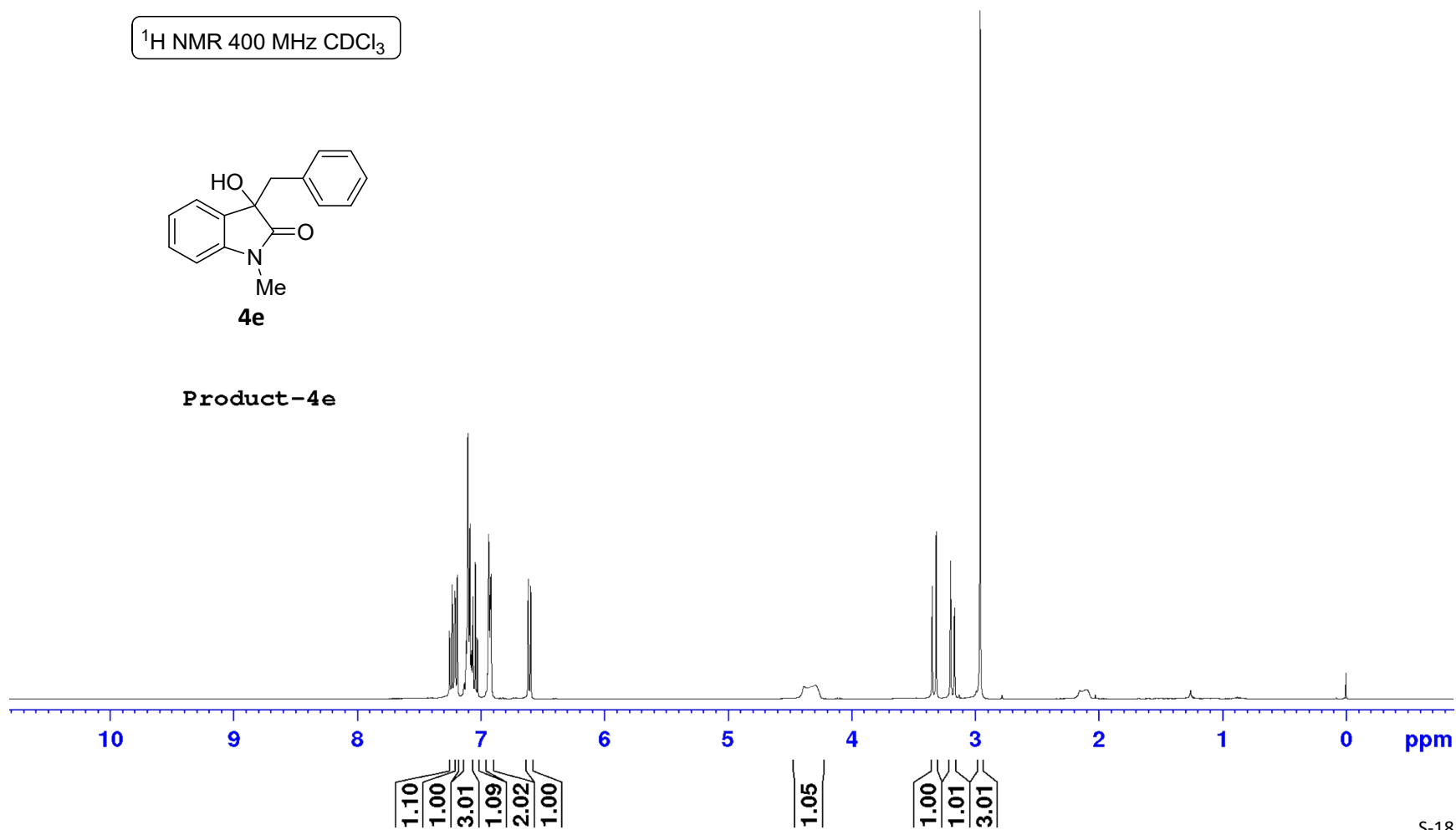
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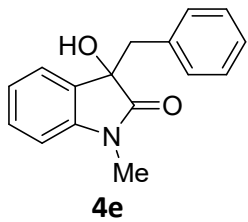
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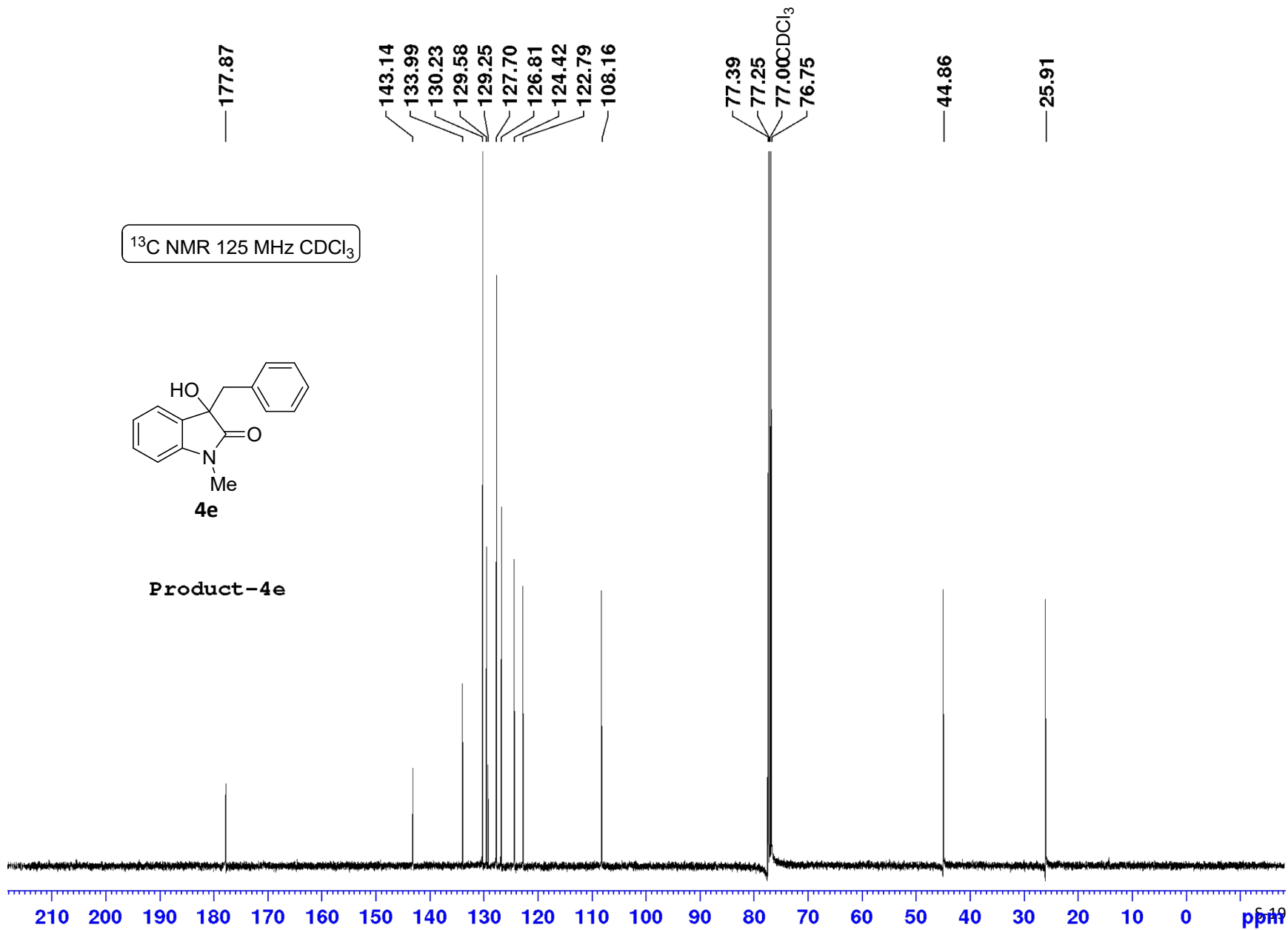
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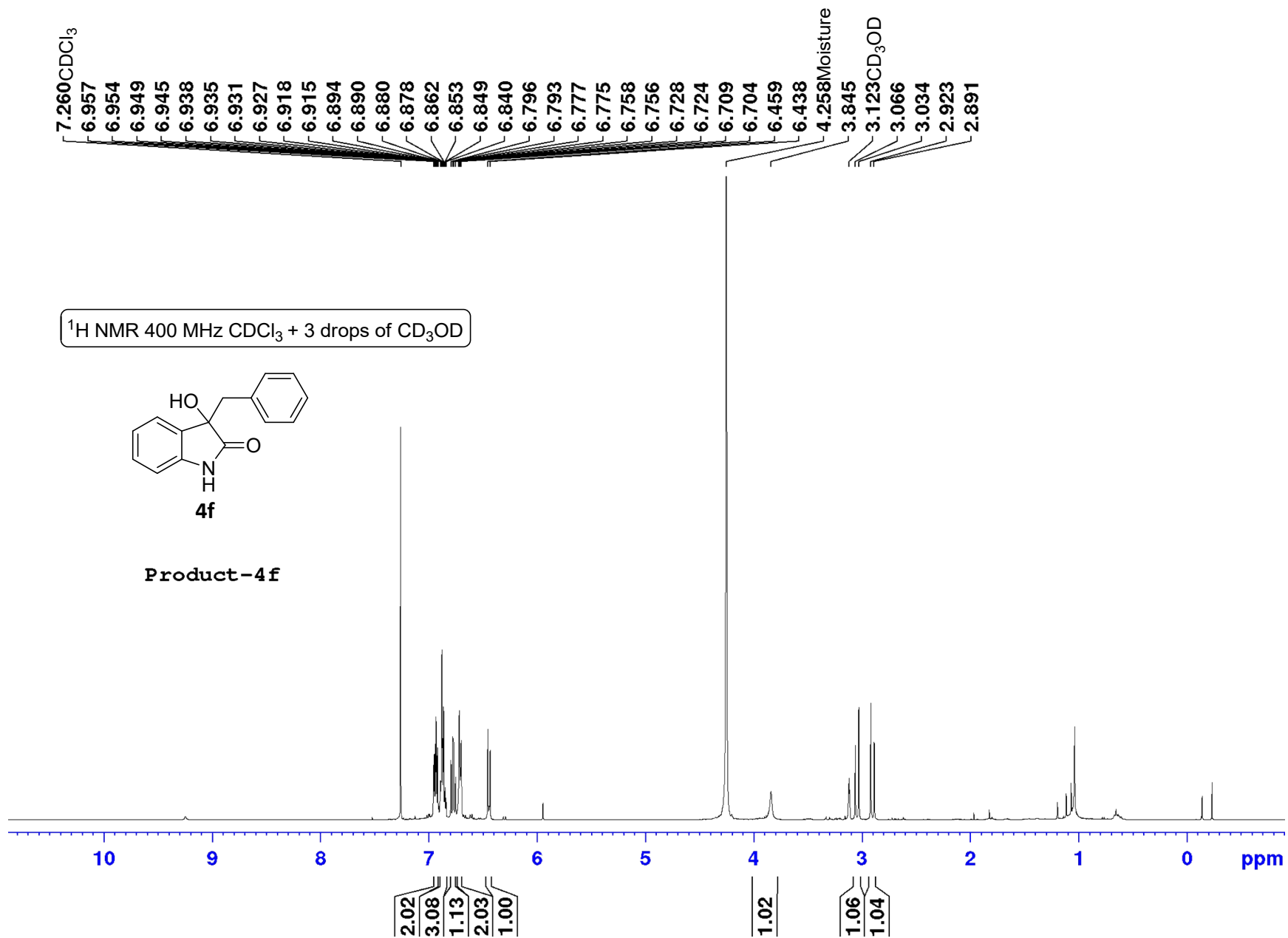


^{13}C NMR 125 MHz CDCl_3

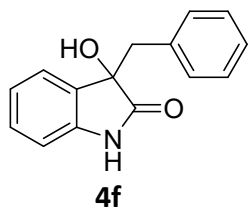


Product-4e

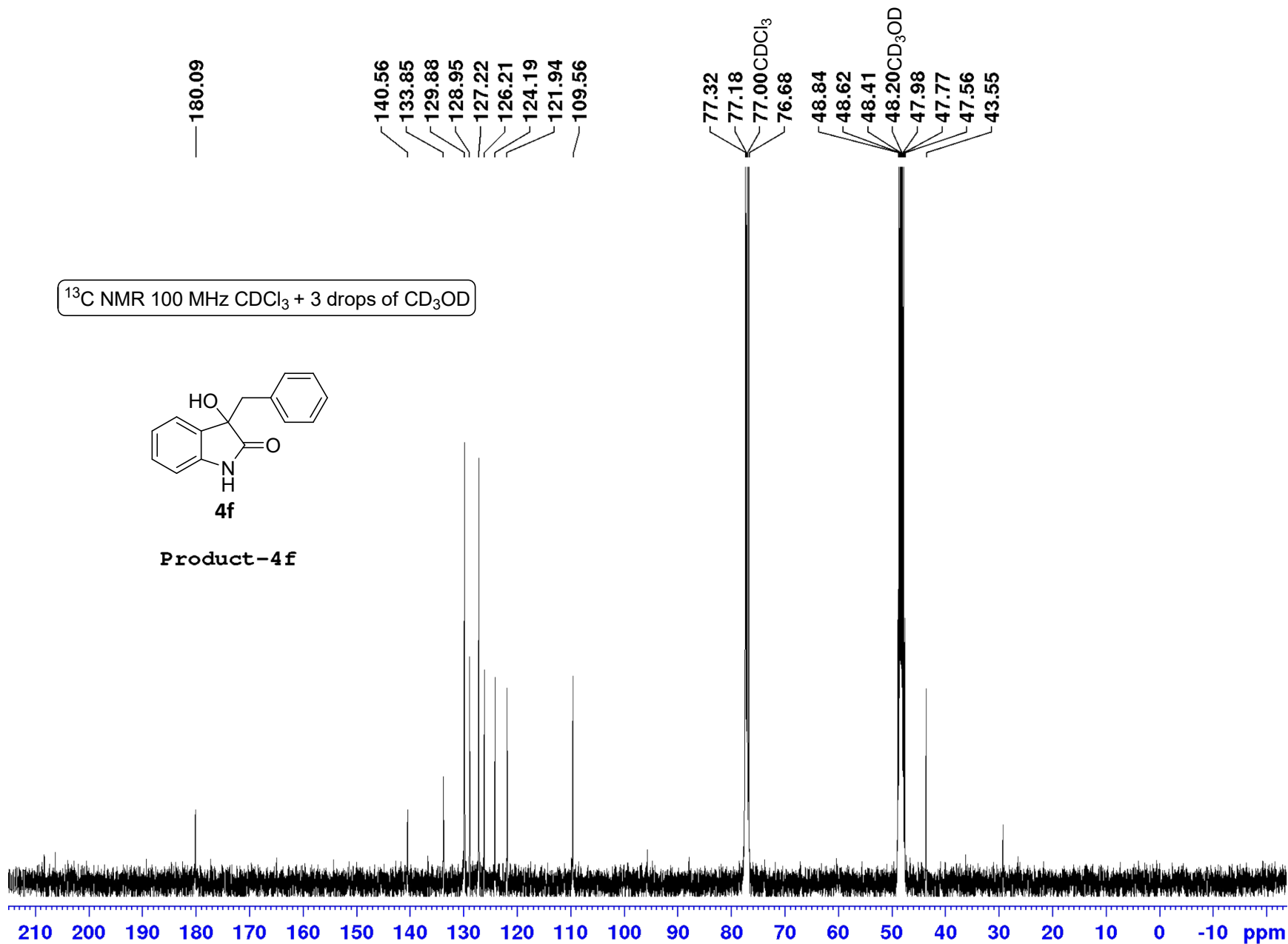




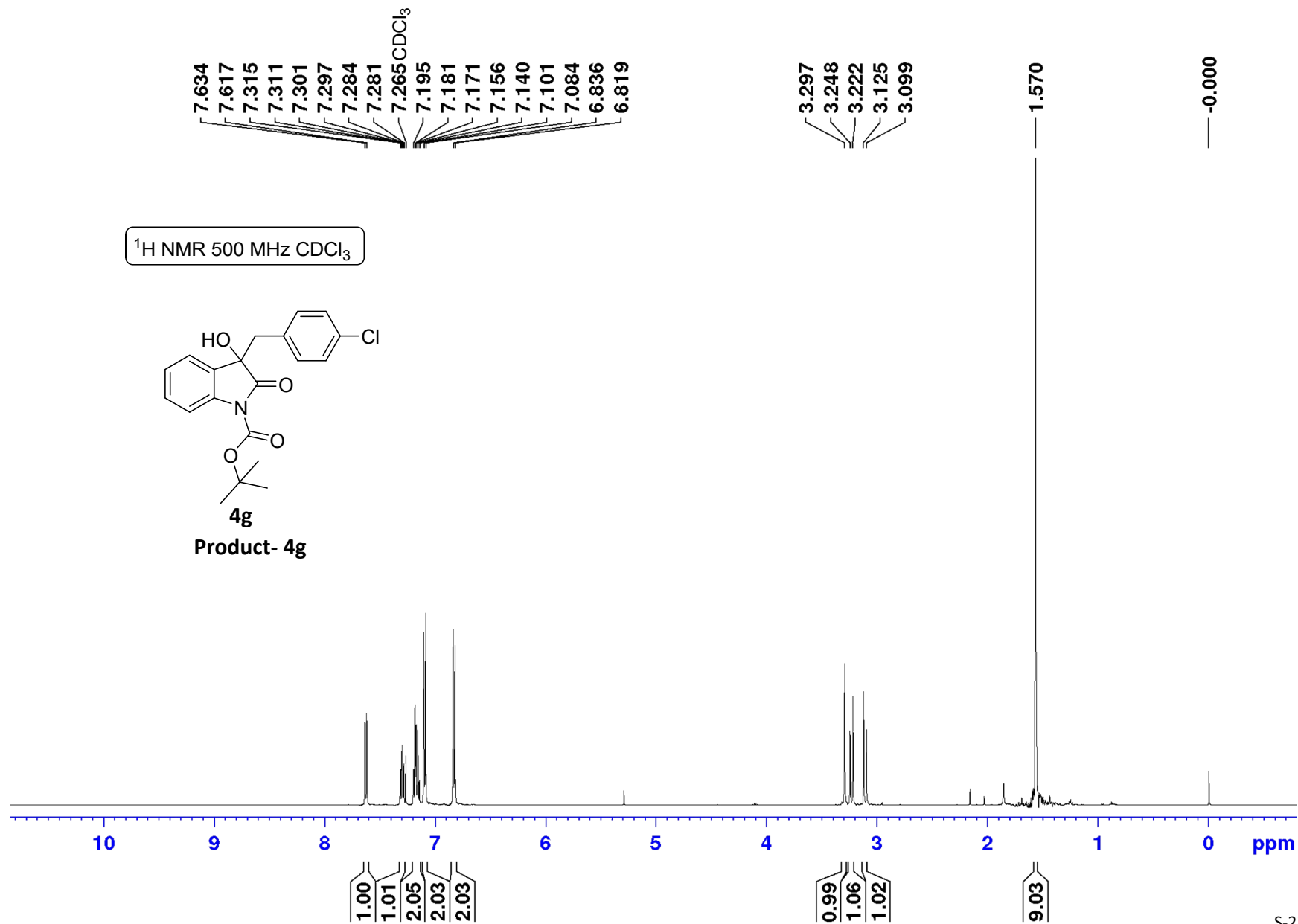
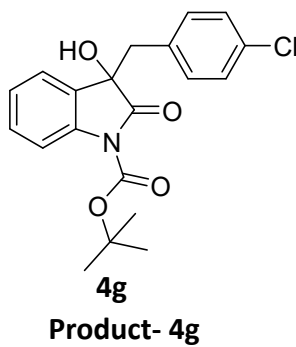
^{13}C NMR 100 MHz CDCl_3 + 3 drops of CD_3OD

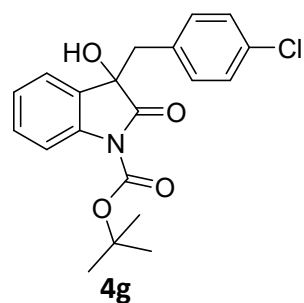


Product-4f



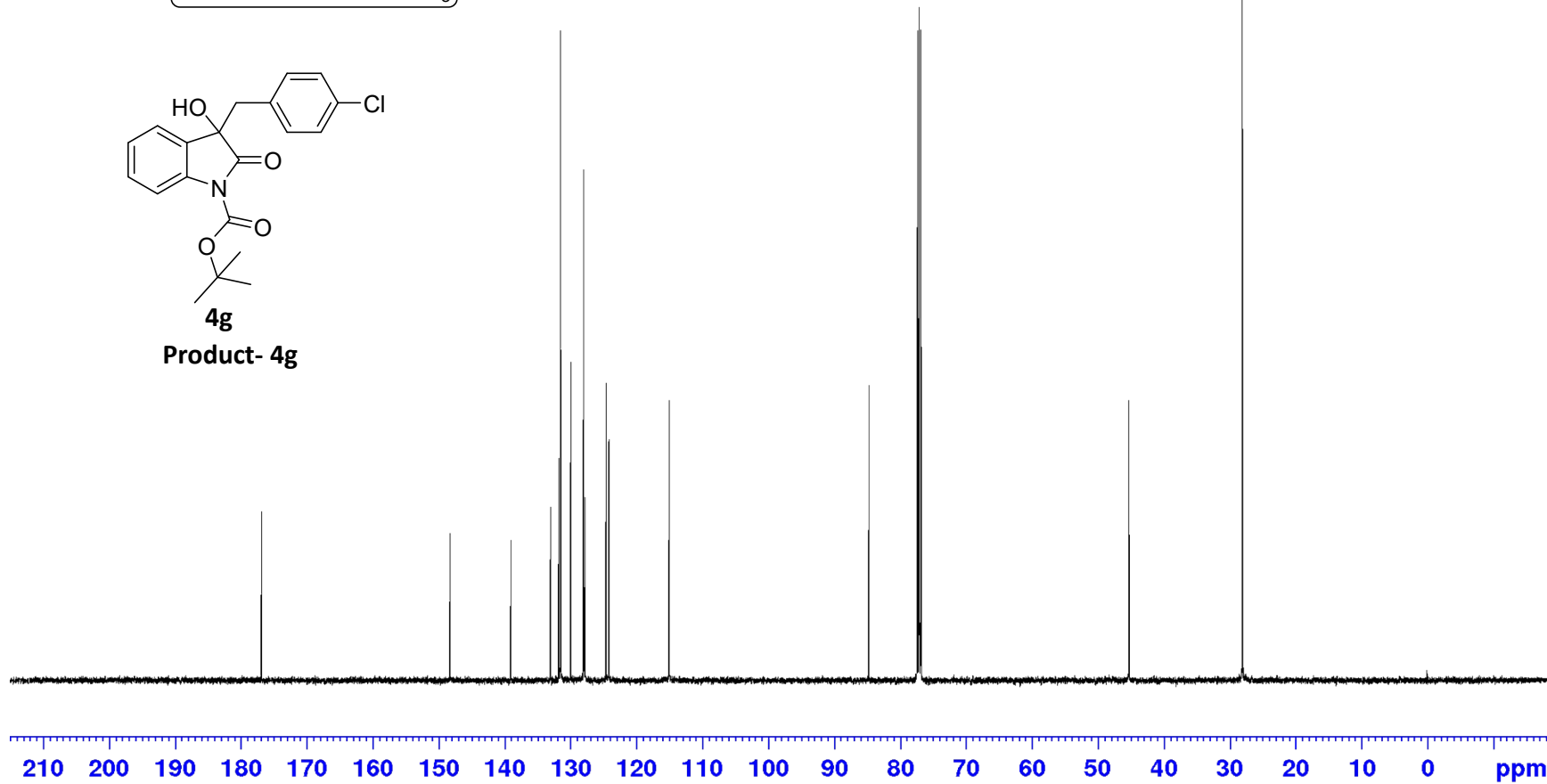
¹H NMR 500 MHz CDCl₃





Product- 4g

^{13}C NMR 125 MHz CDCl_3



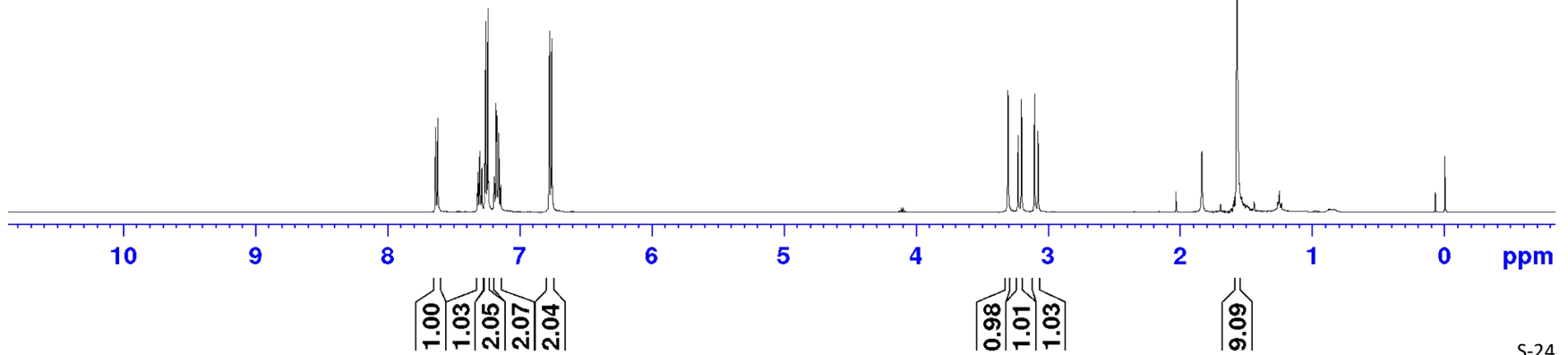
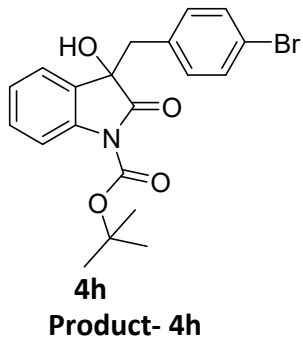
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7.619
7.318
7.314
7.304
7.301
7.288
7.284
7.265 CDCl₃
7.256
7.252
7.242
7.239
7.193
7.190
7.179
7.175
7.172
7.156
7.141
6.779
6.762

3.308
3.231
3.205
3.107
3.081

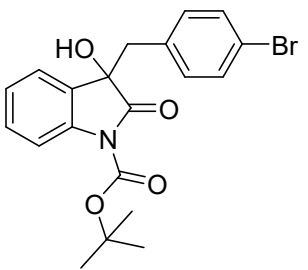
1.574

-0.000

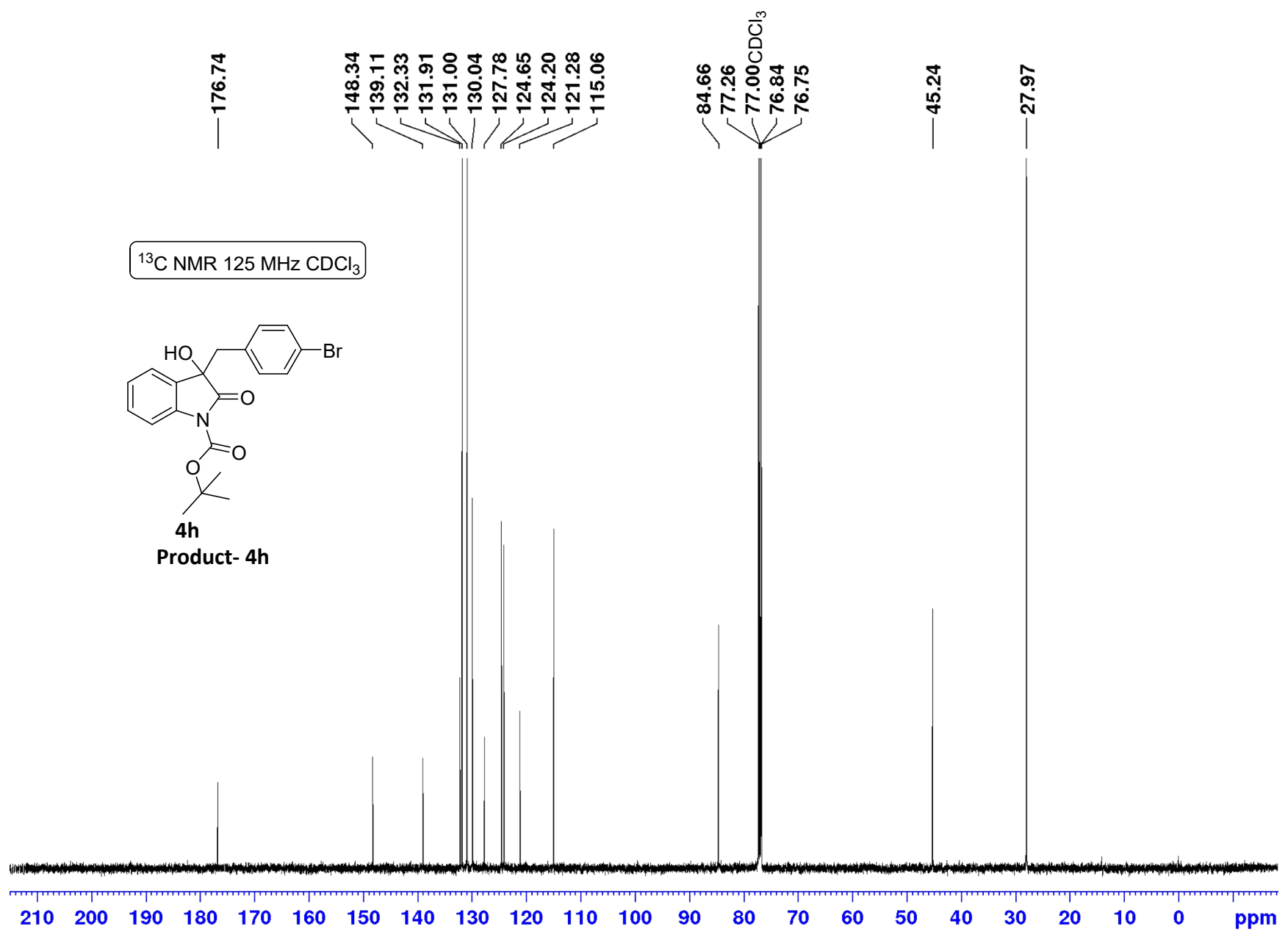
¹H NMR 500 MHz CDCl₃

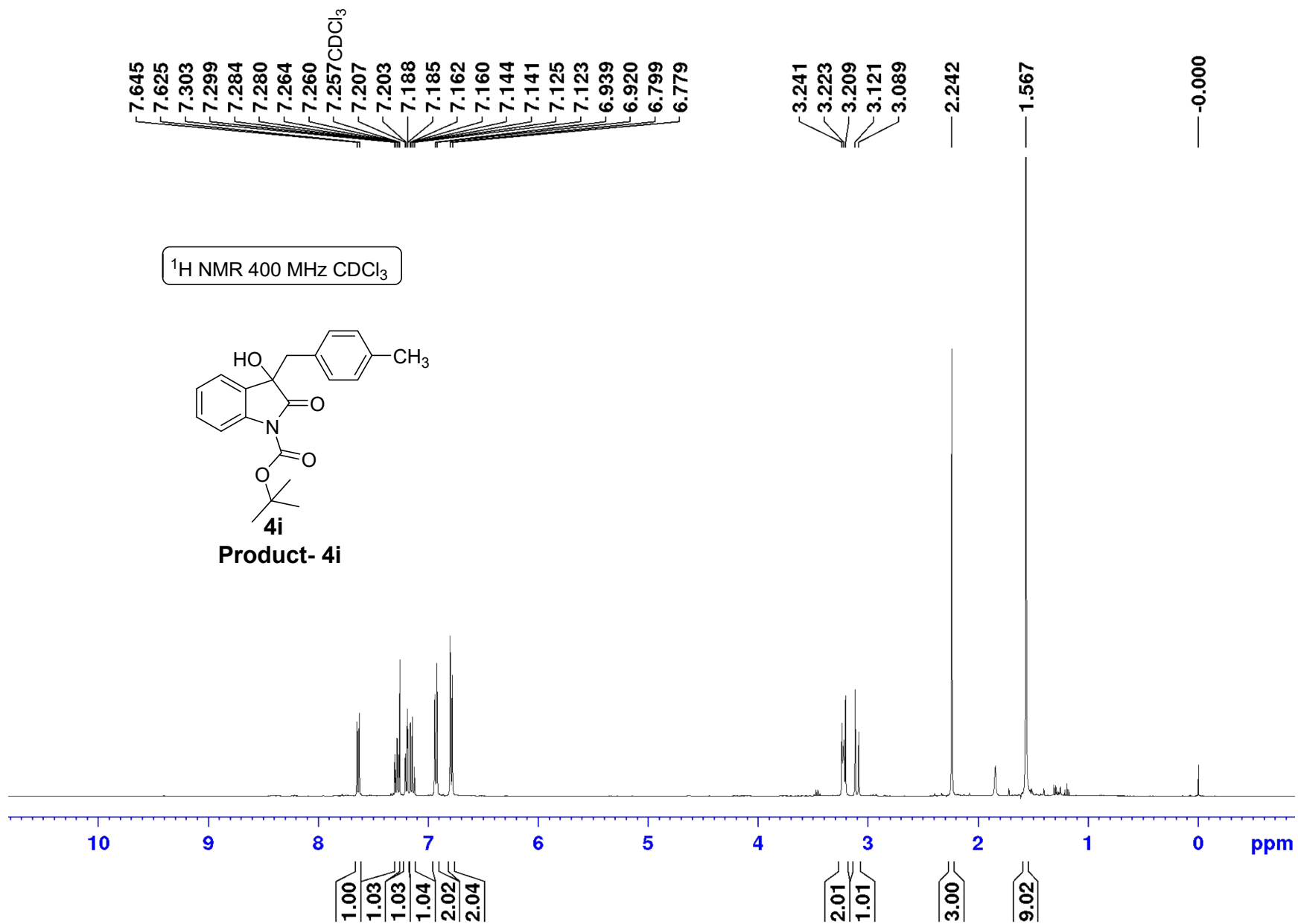


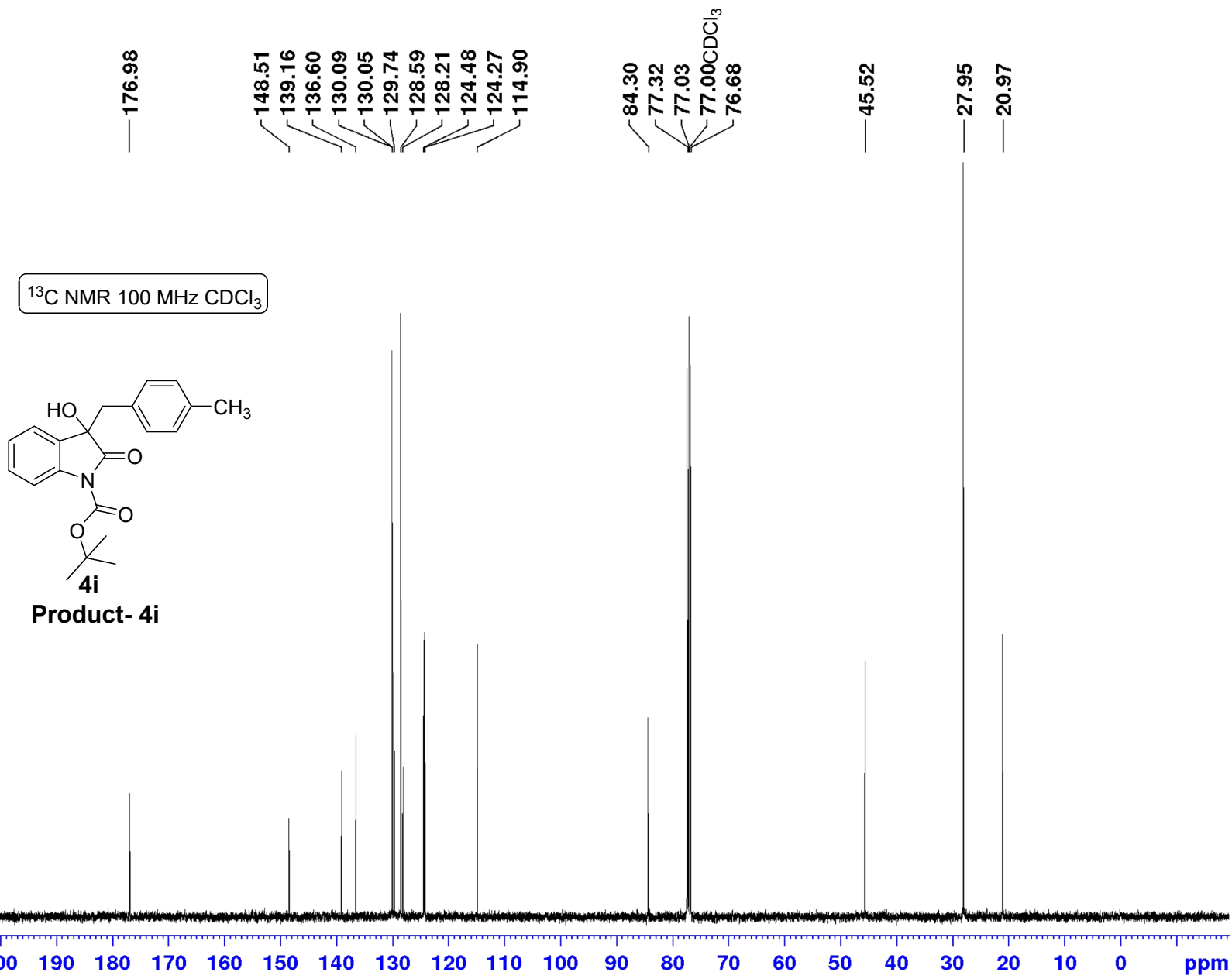
¹³C NMR 125 MHz CDCl₃

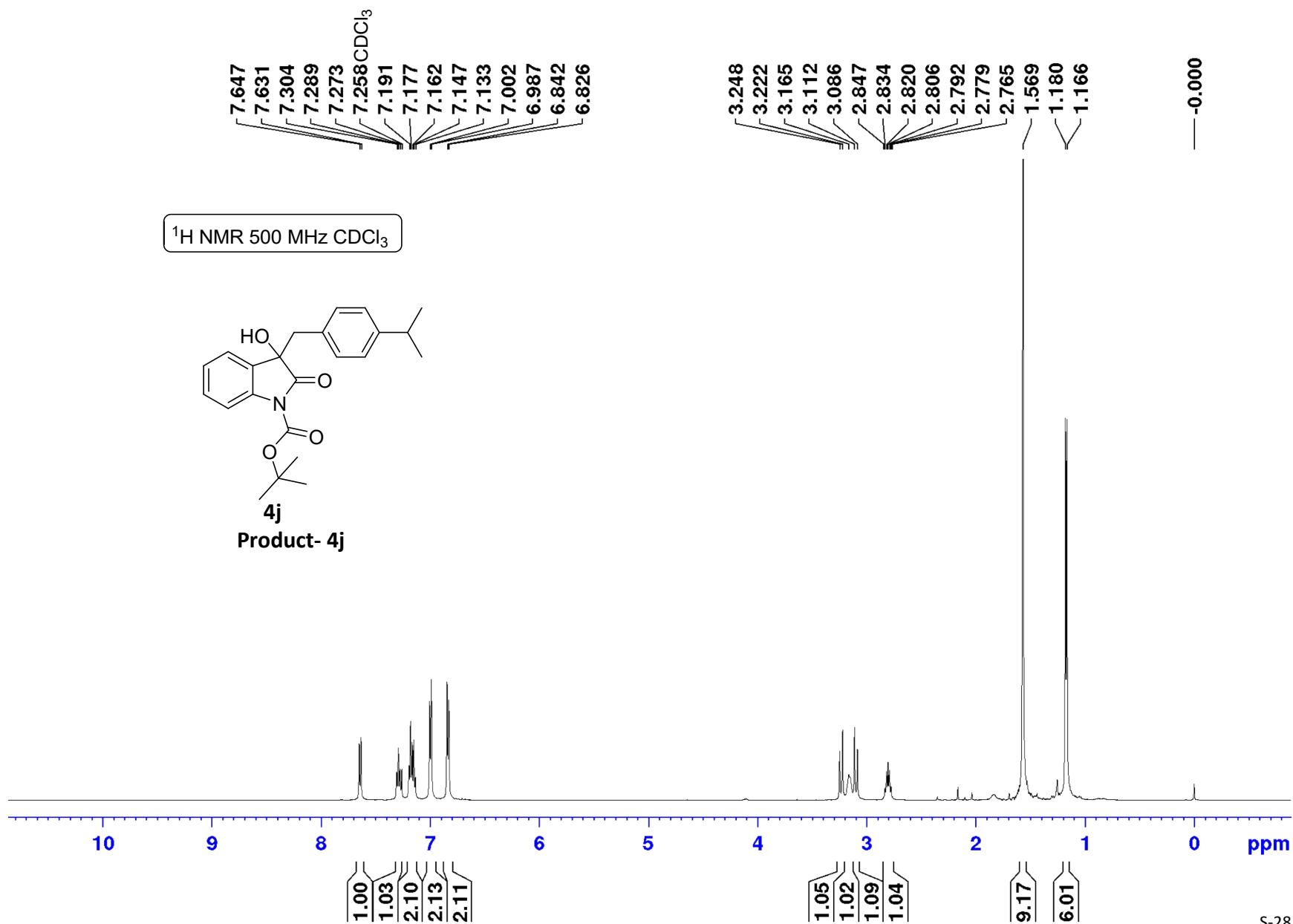


4h
Product- 4h

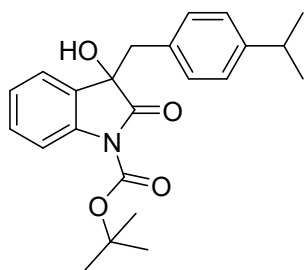




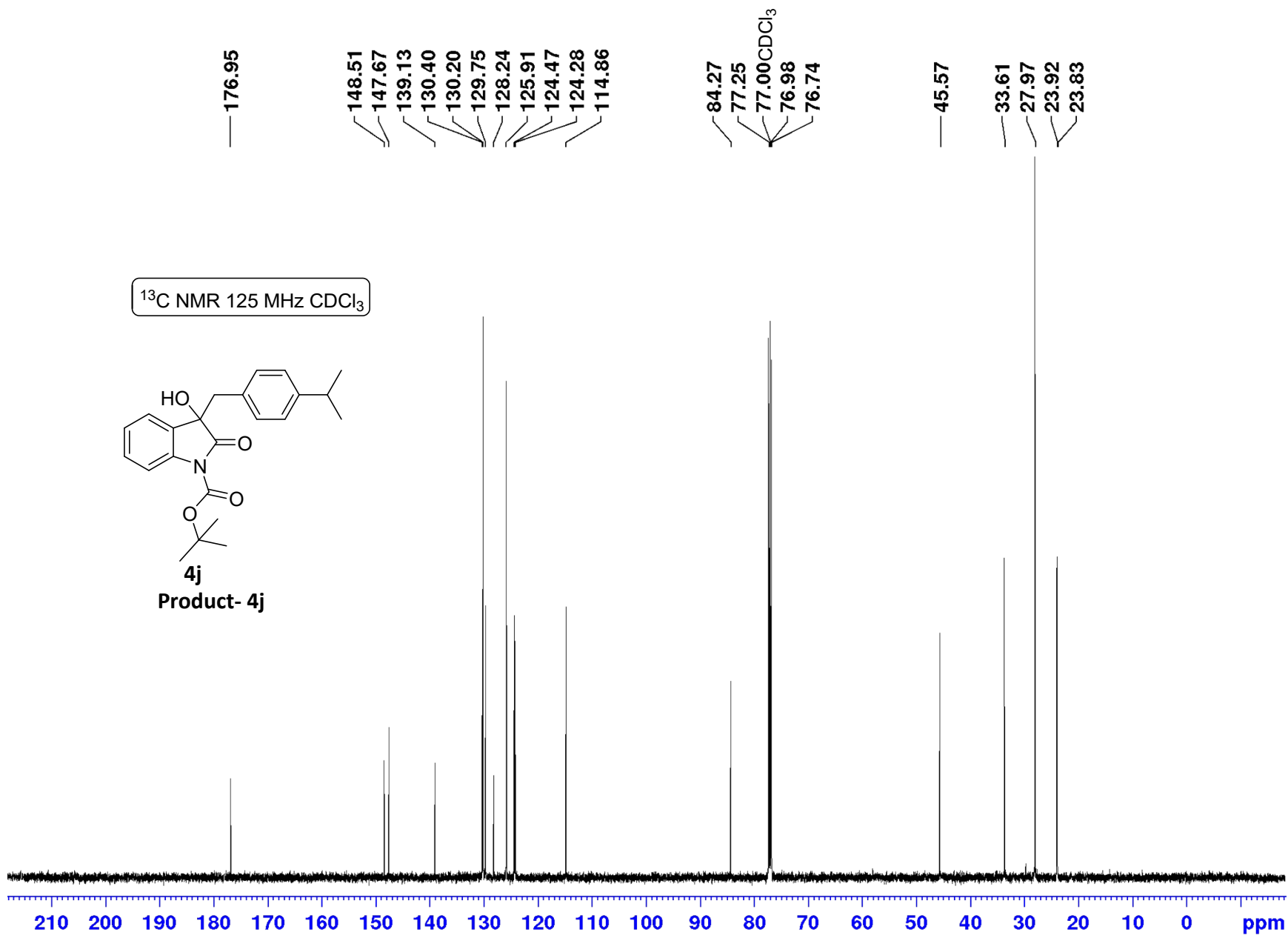


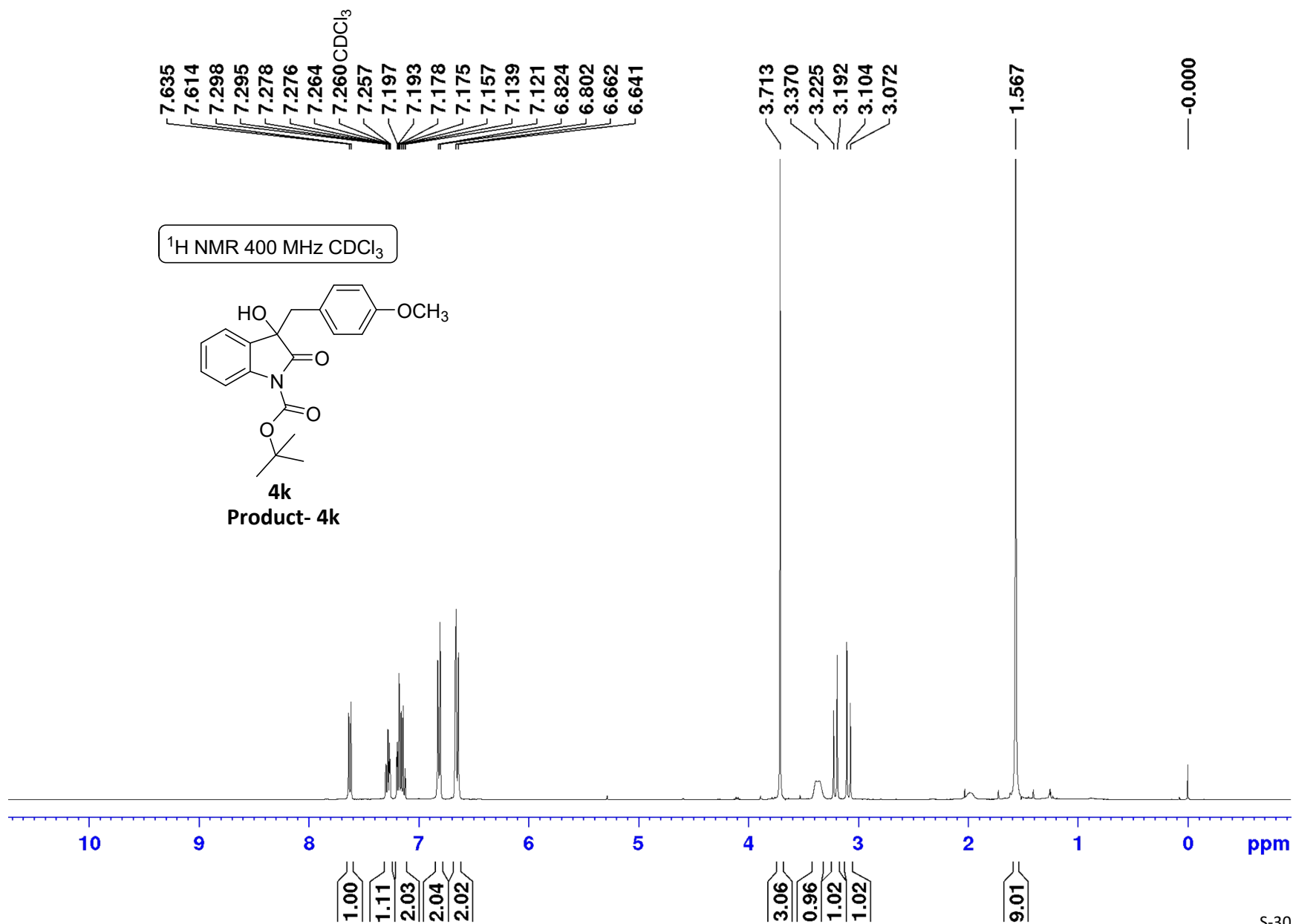


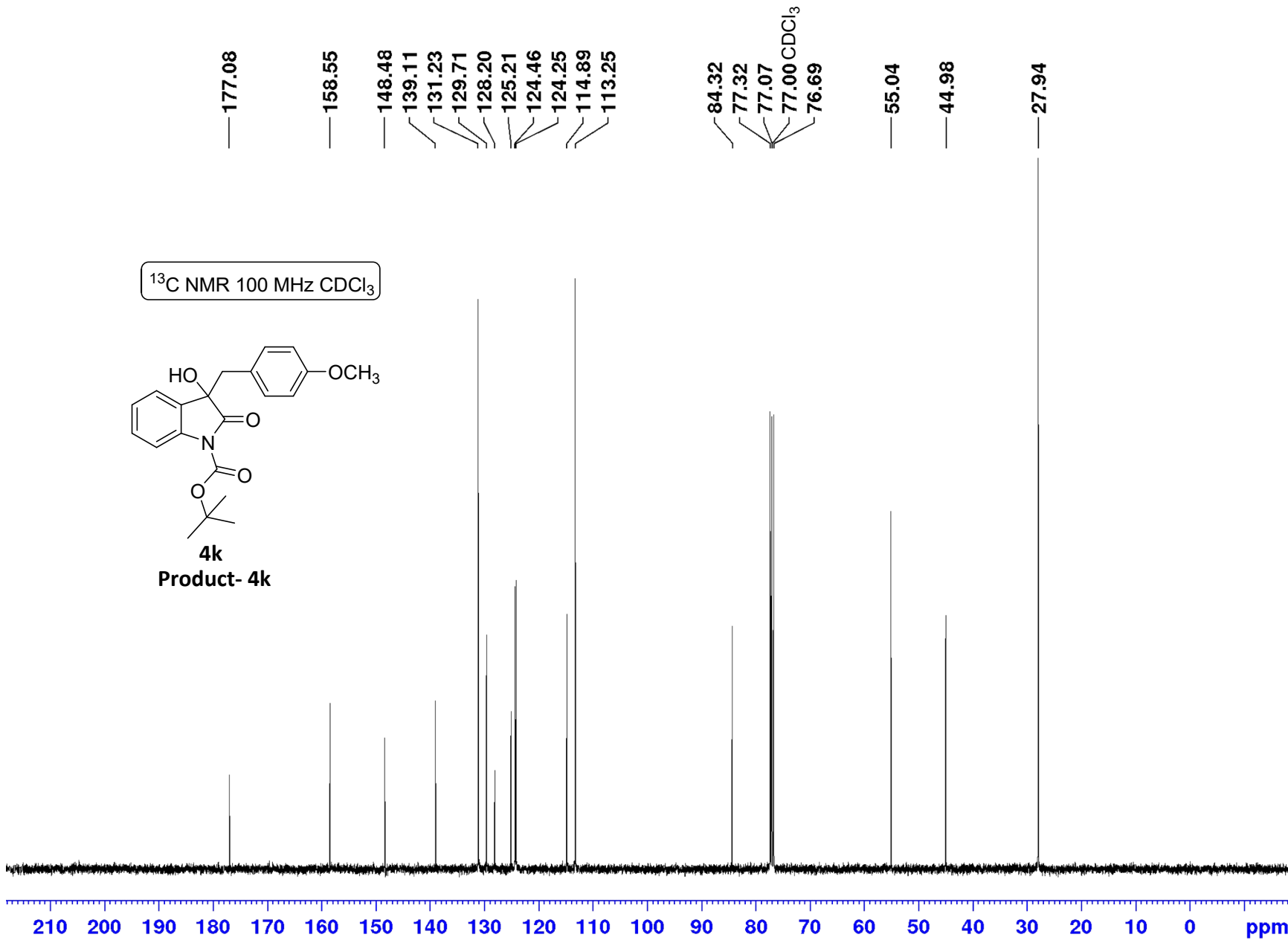
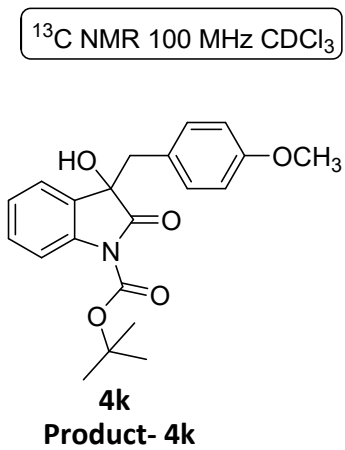
¹³C NMR 125 MHz CDCl₃

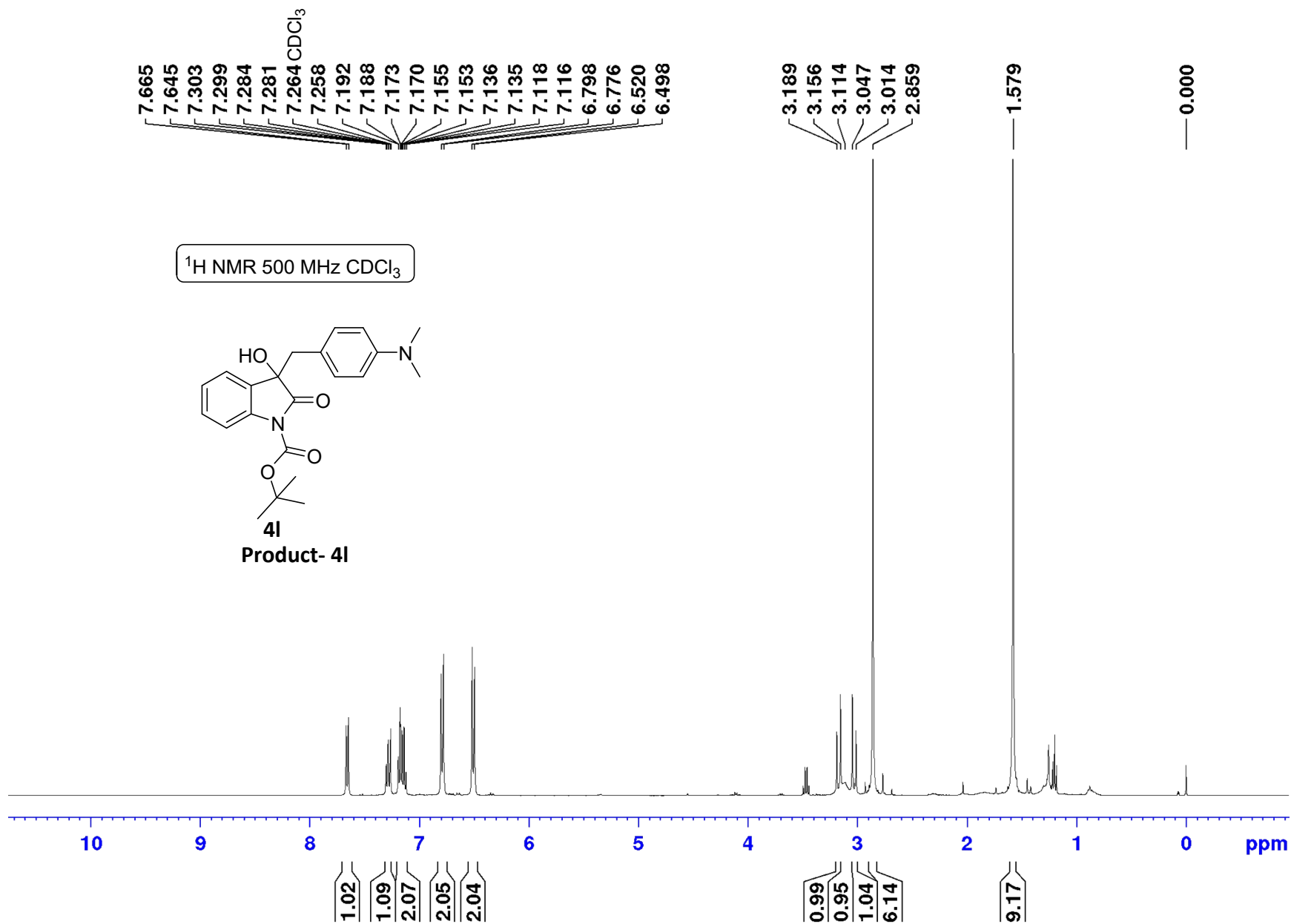


4j
Product-4j

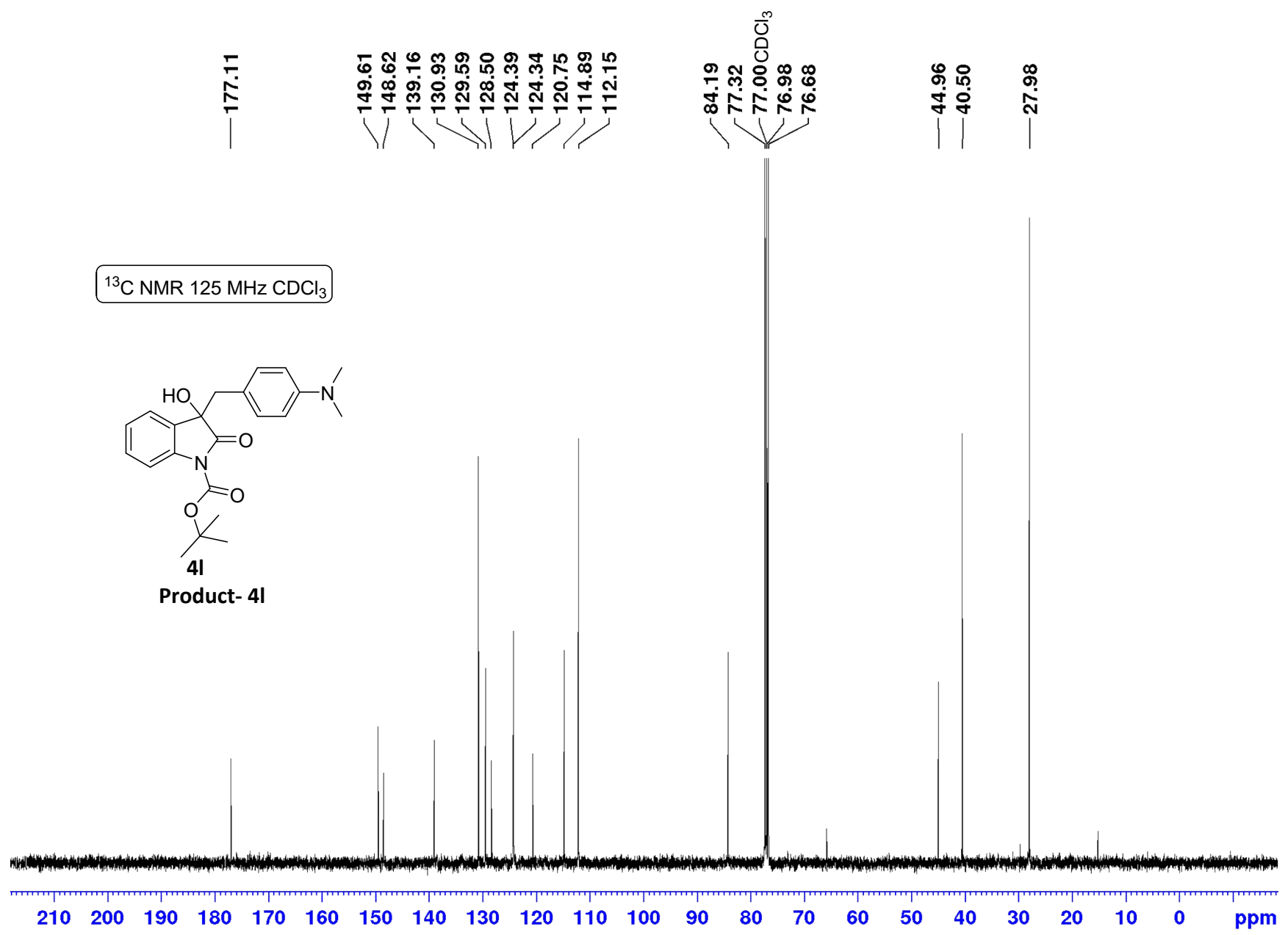
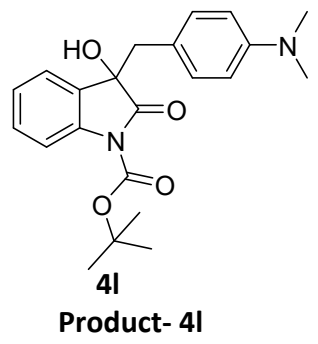








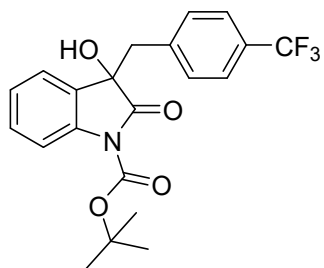
^{13}C NMR 125 MHz CDCl_3



7.642
7.622
7.413
7.392
7.345
7.339
7.329
7.323
7.318
7.308
7.302
7.282 CDCl₃
7.218
7.213
7.199
7.196
7.182
7.180
7.163
7.161
7.048
7.028

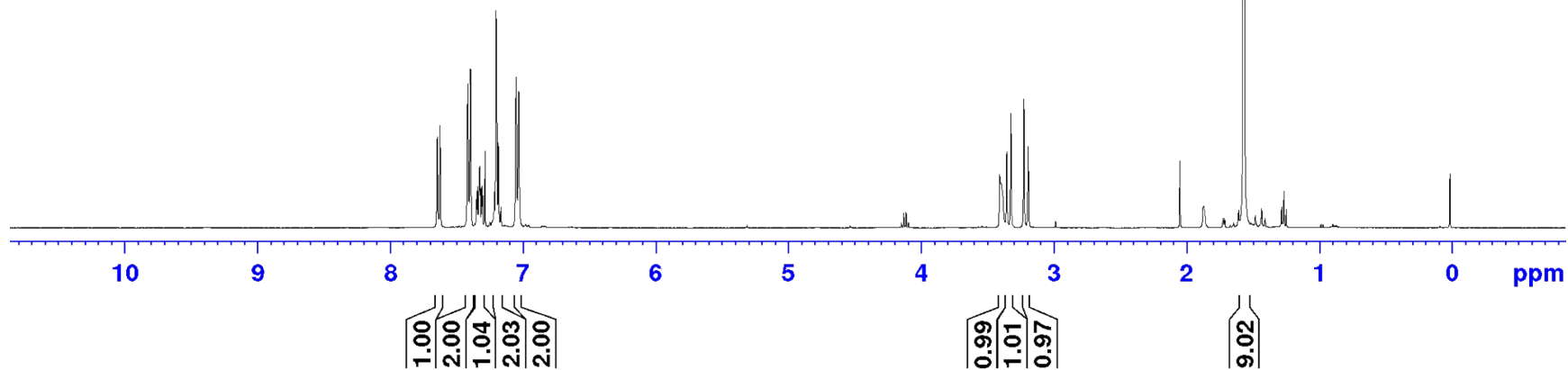
3.404
3.357
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3.227
3.195

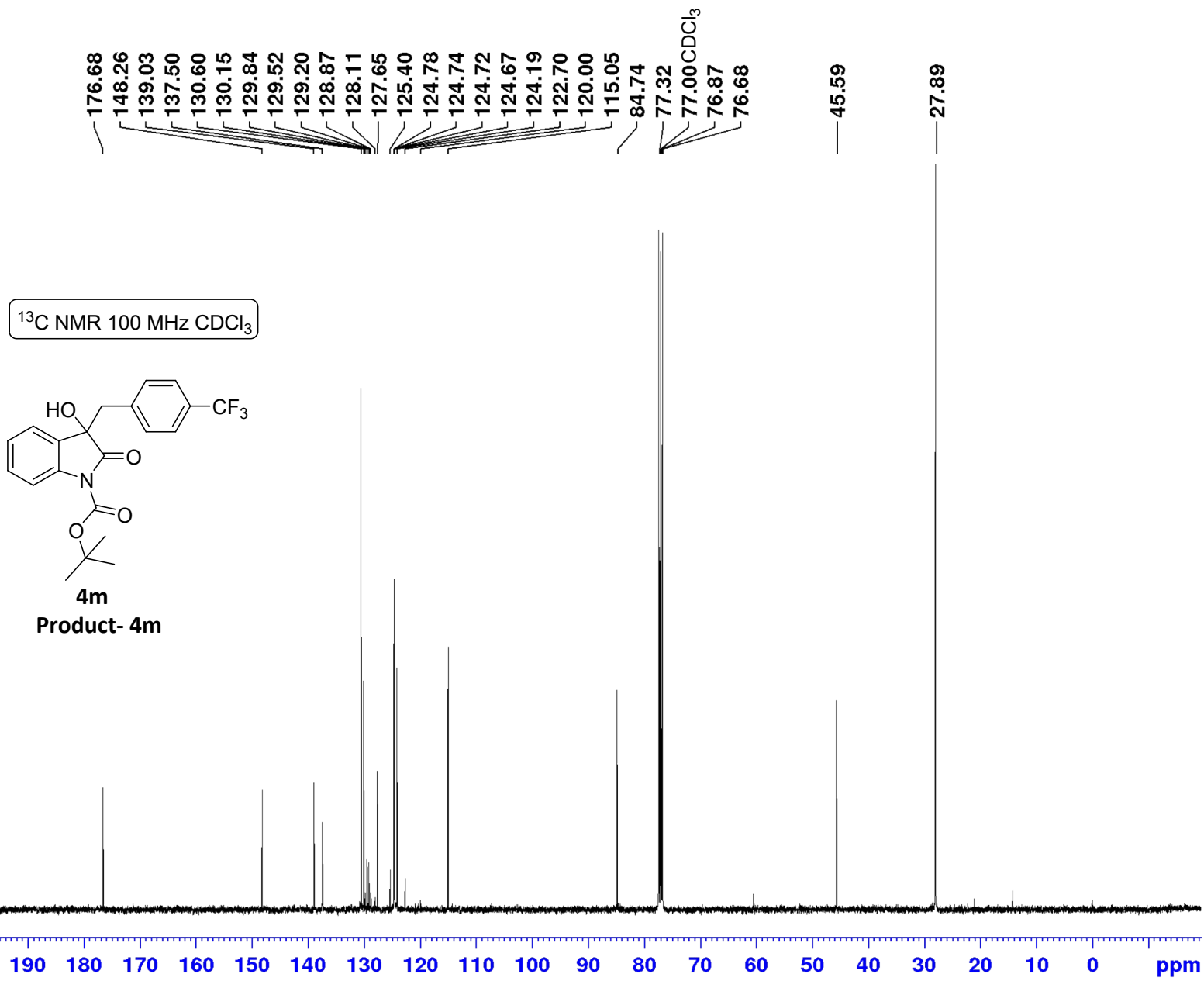
¹H NMR 400 MHz CDCl₃

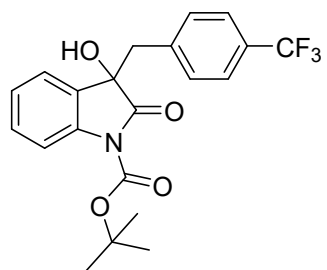


4m

Product- 4m

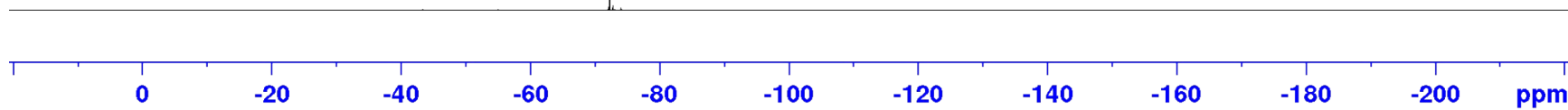


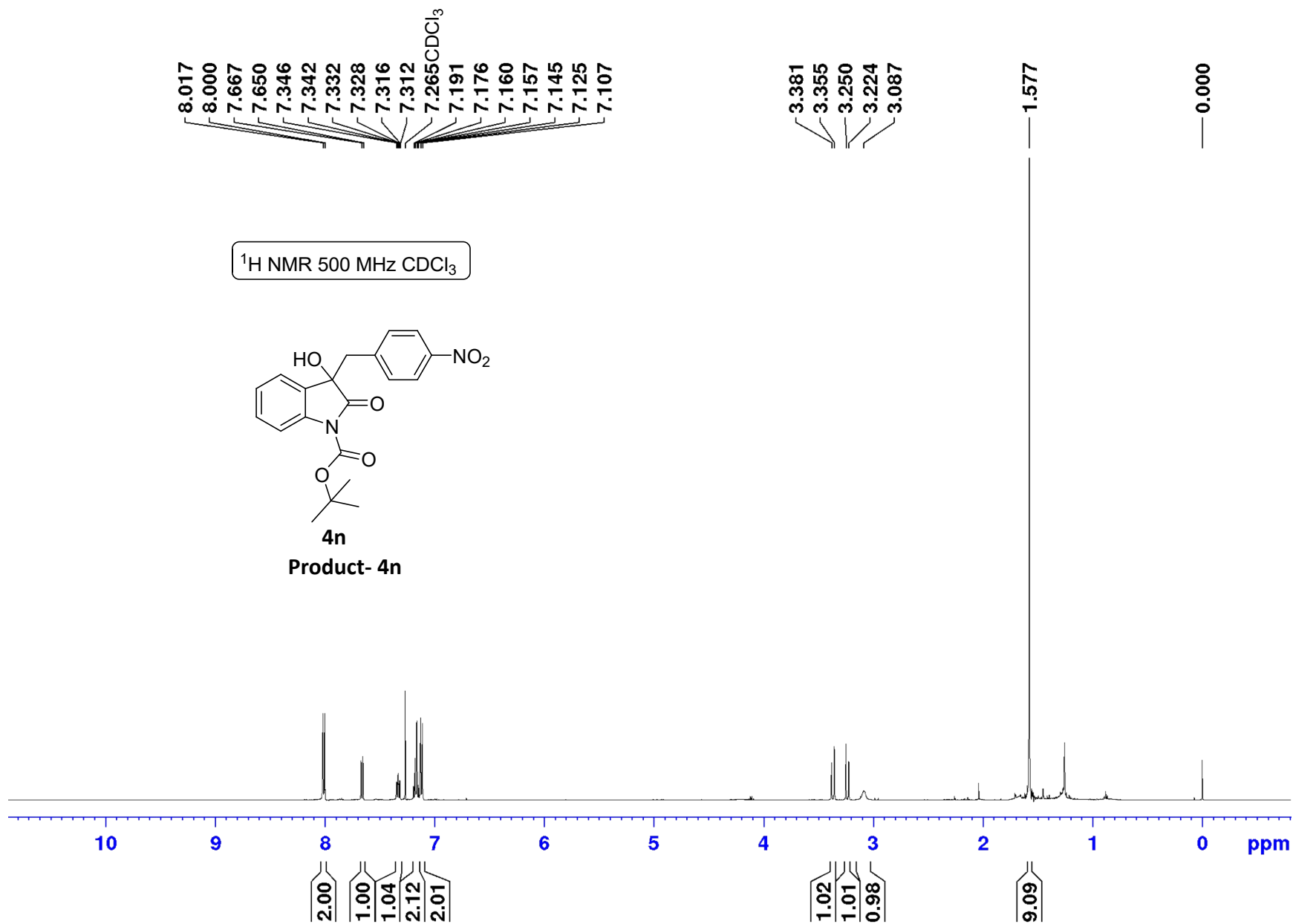


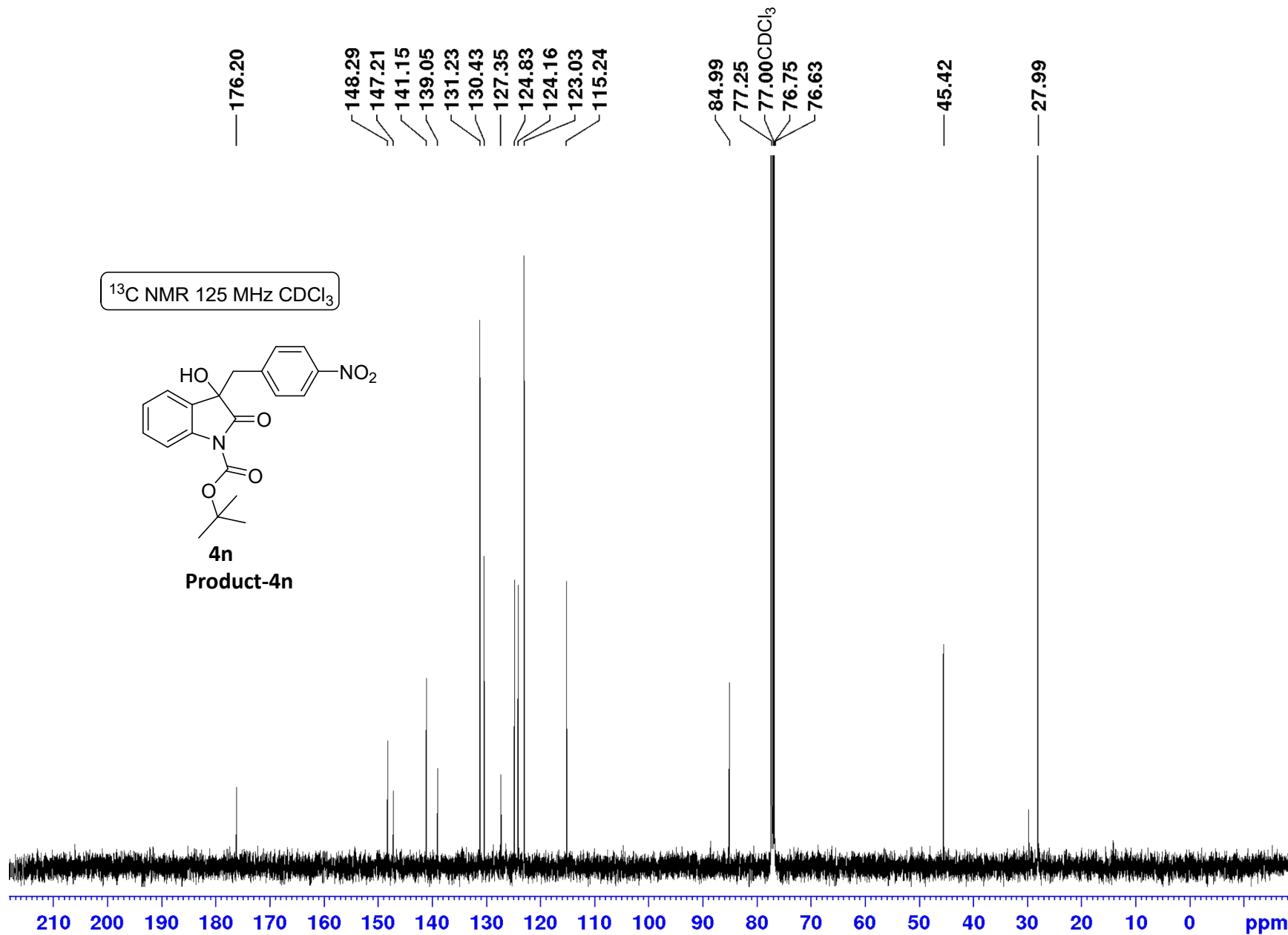


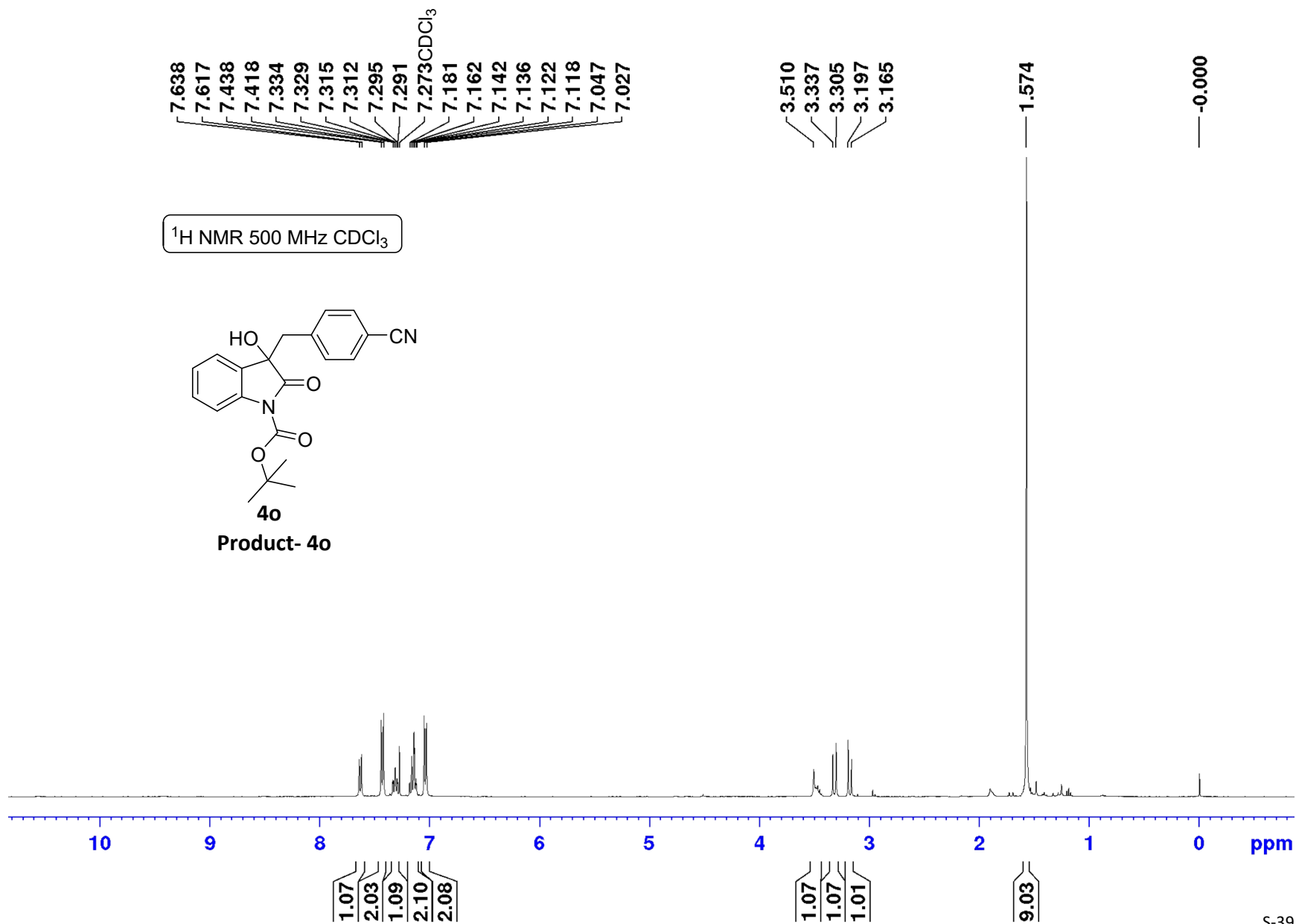
4m
Product- 4m

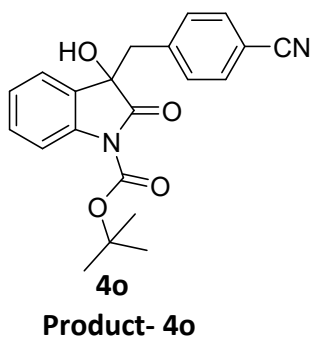
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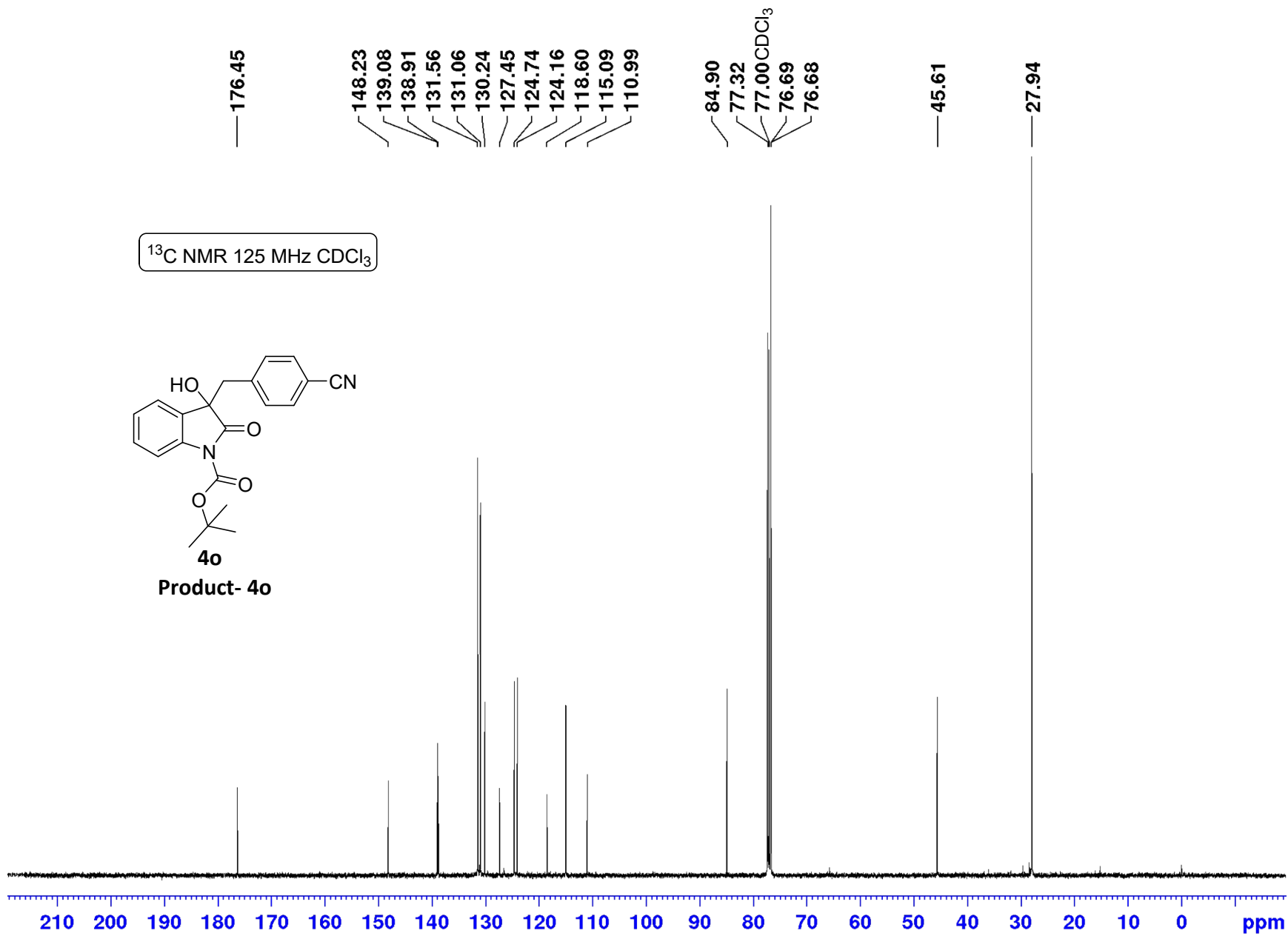


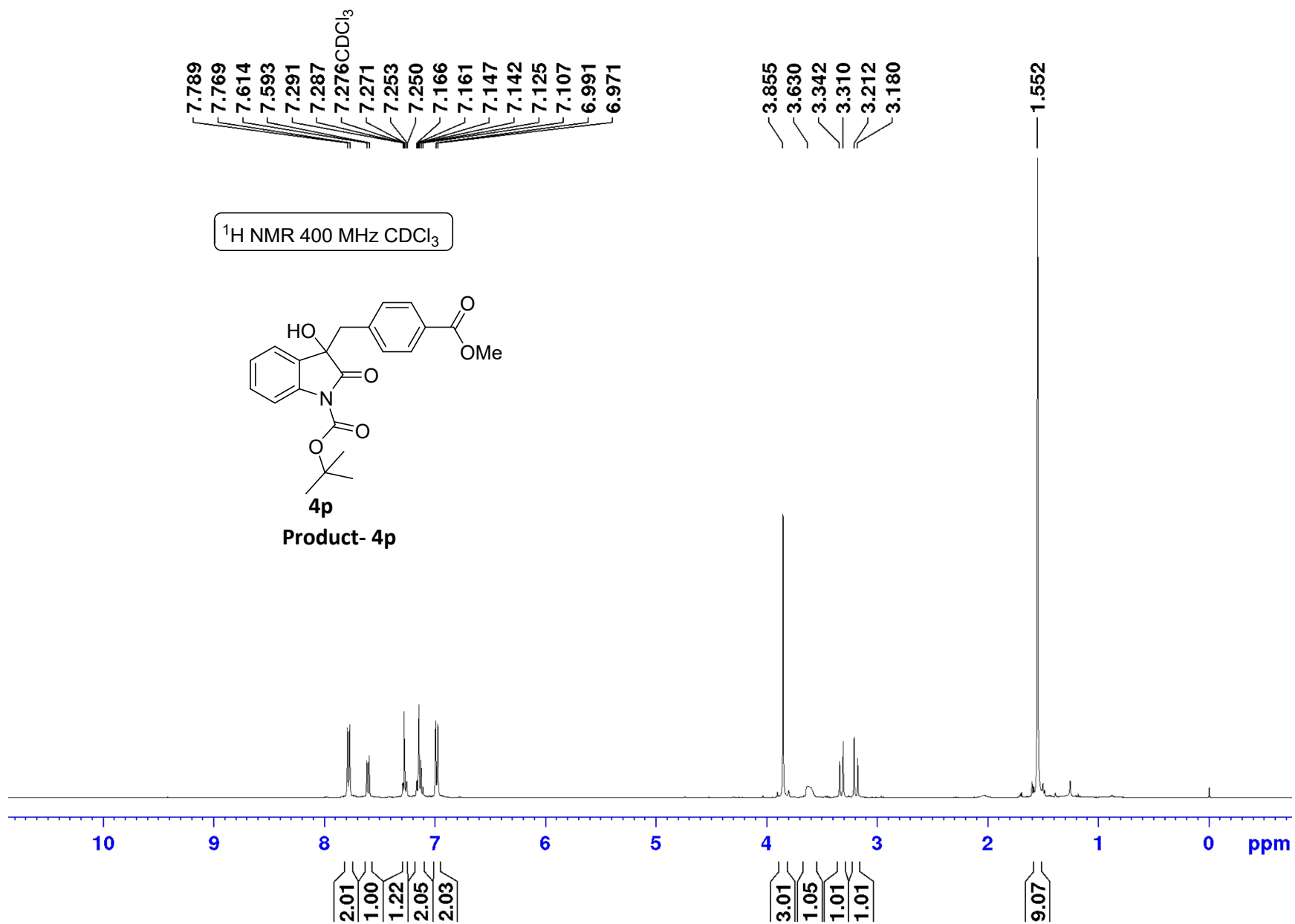


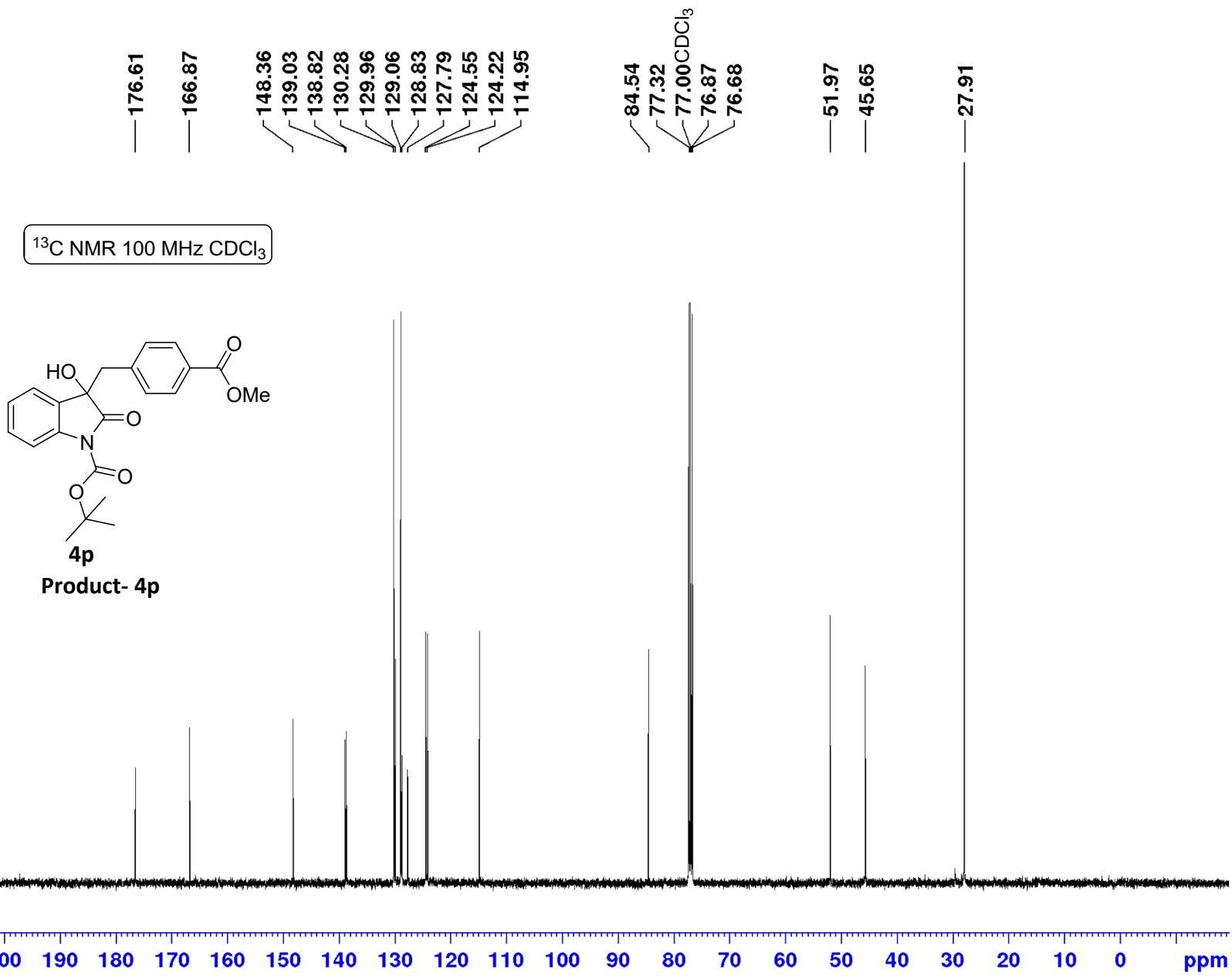


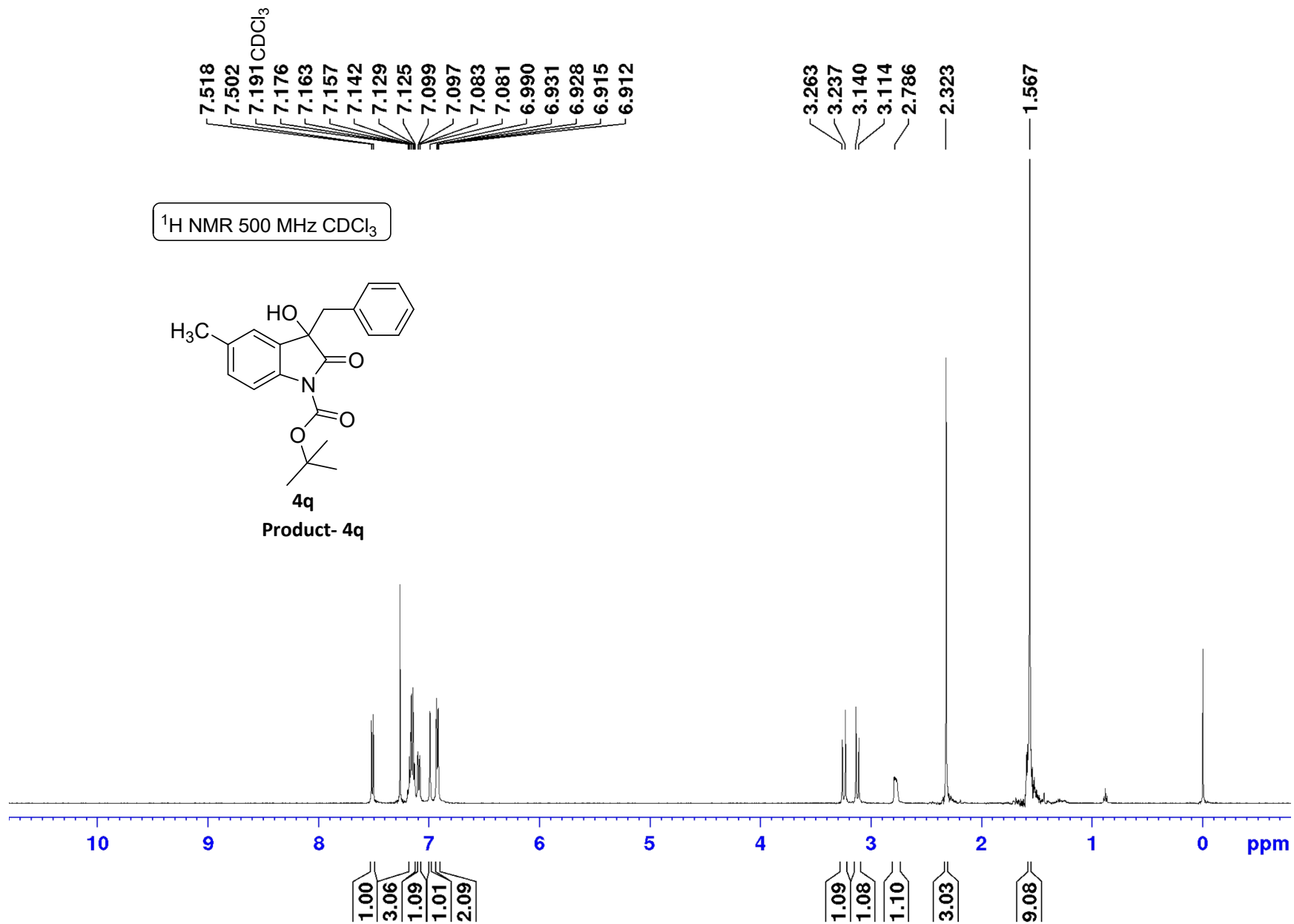


^{13}C NMR 125 MHz CDCl_3

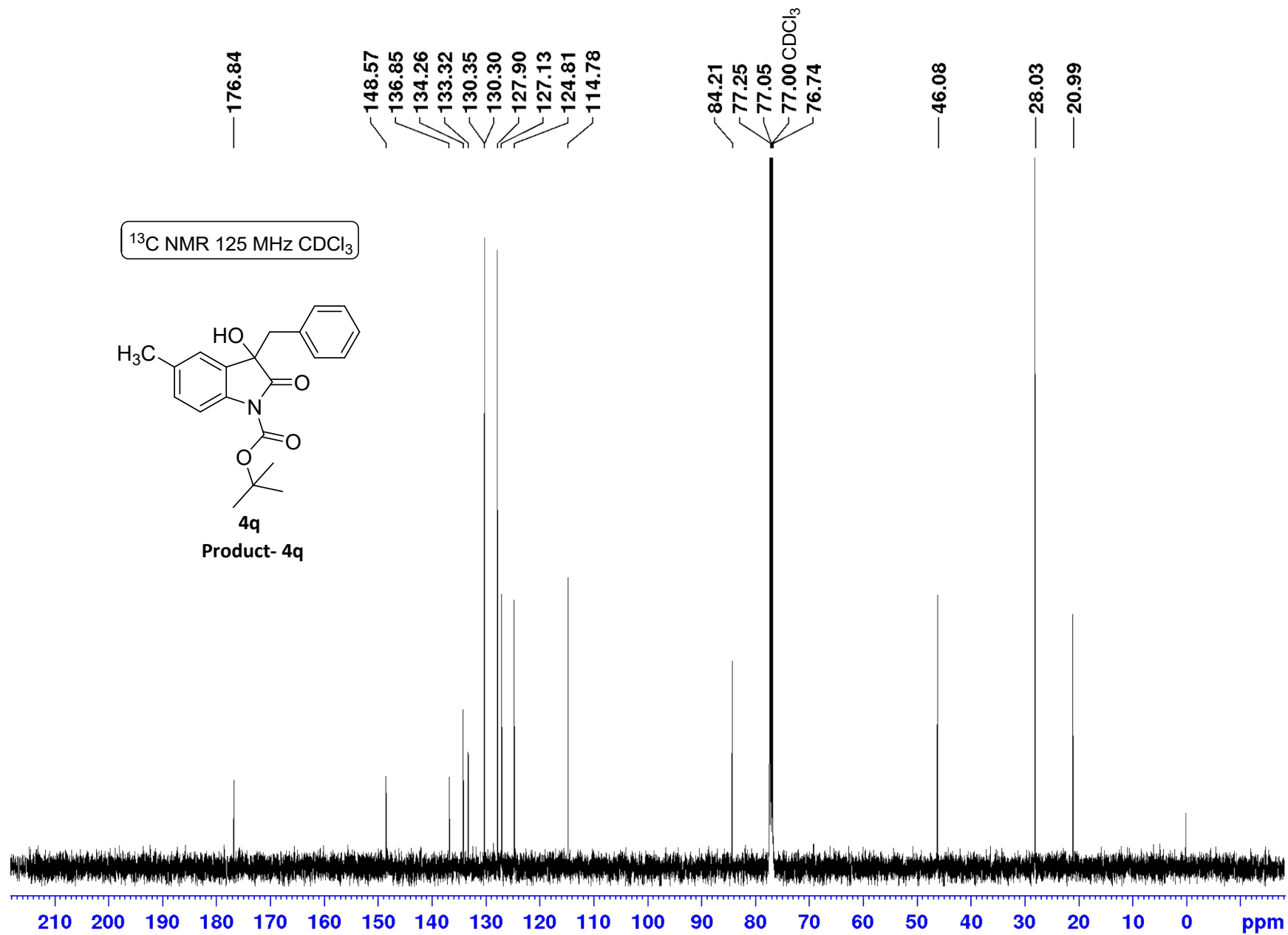
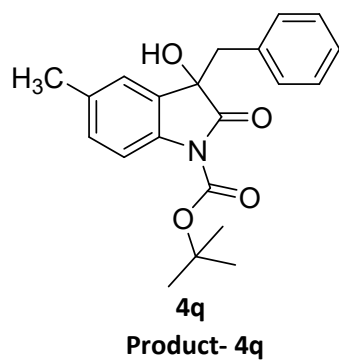


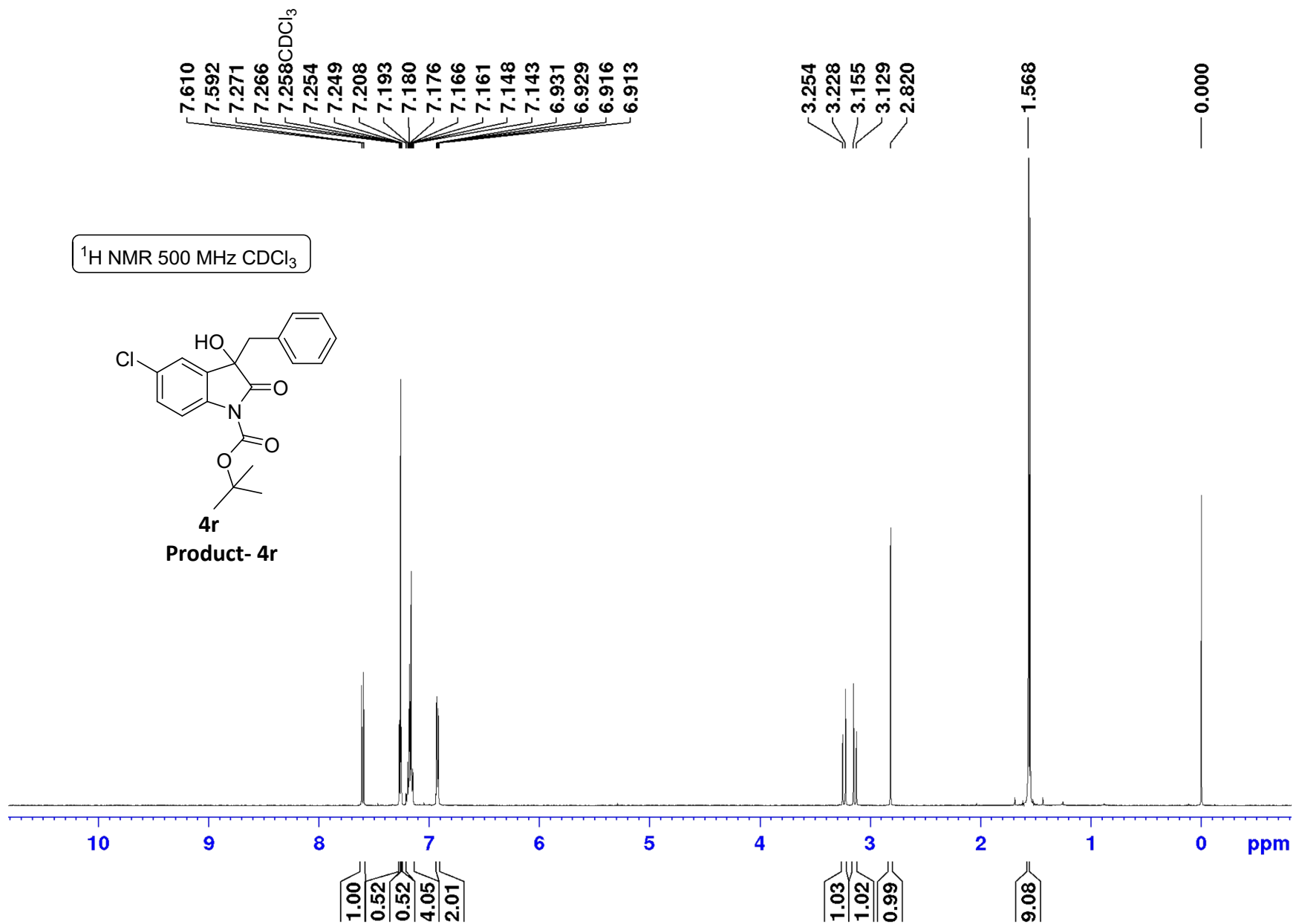


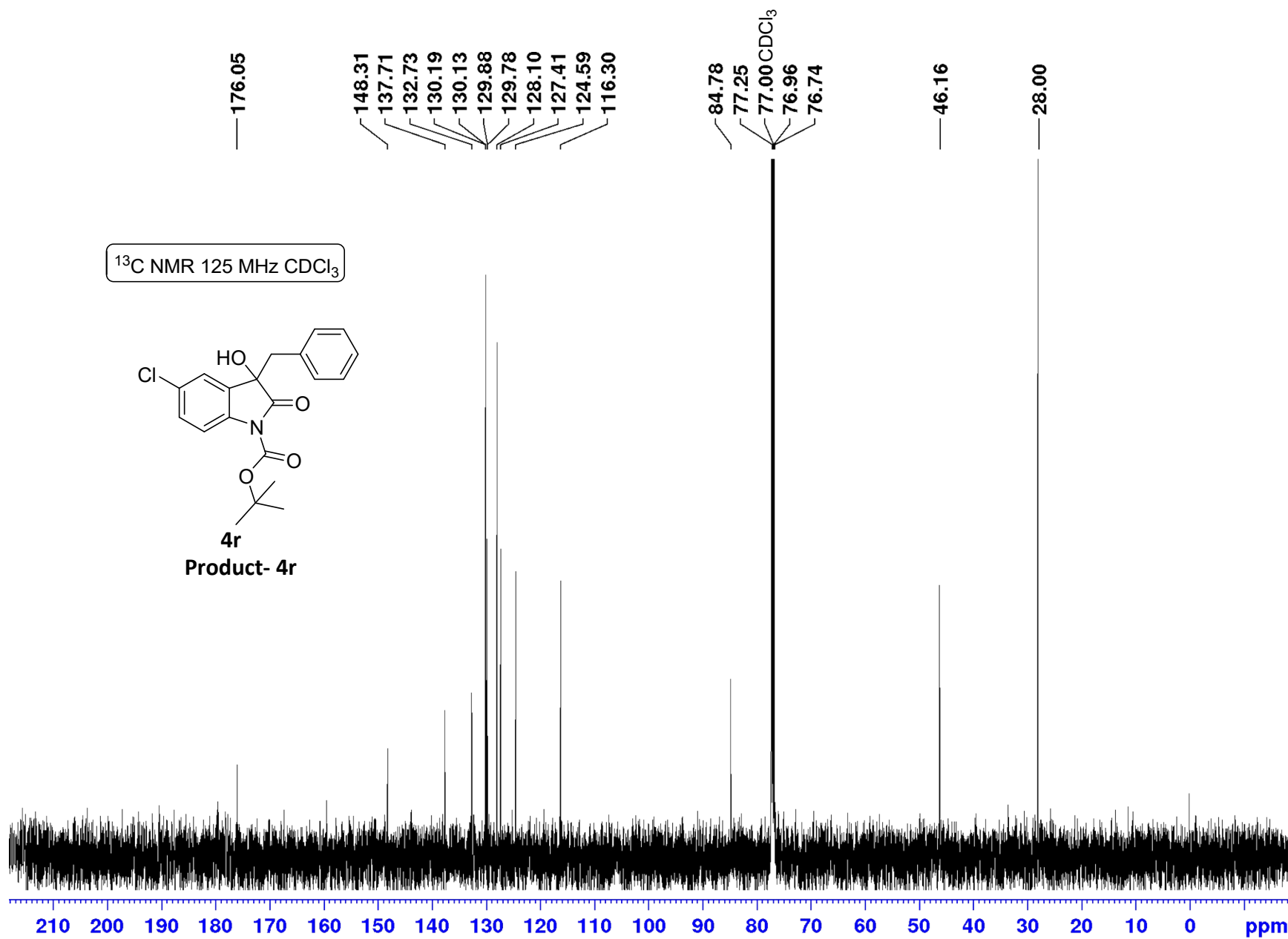


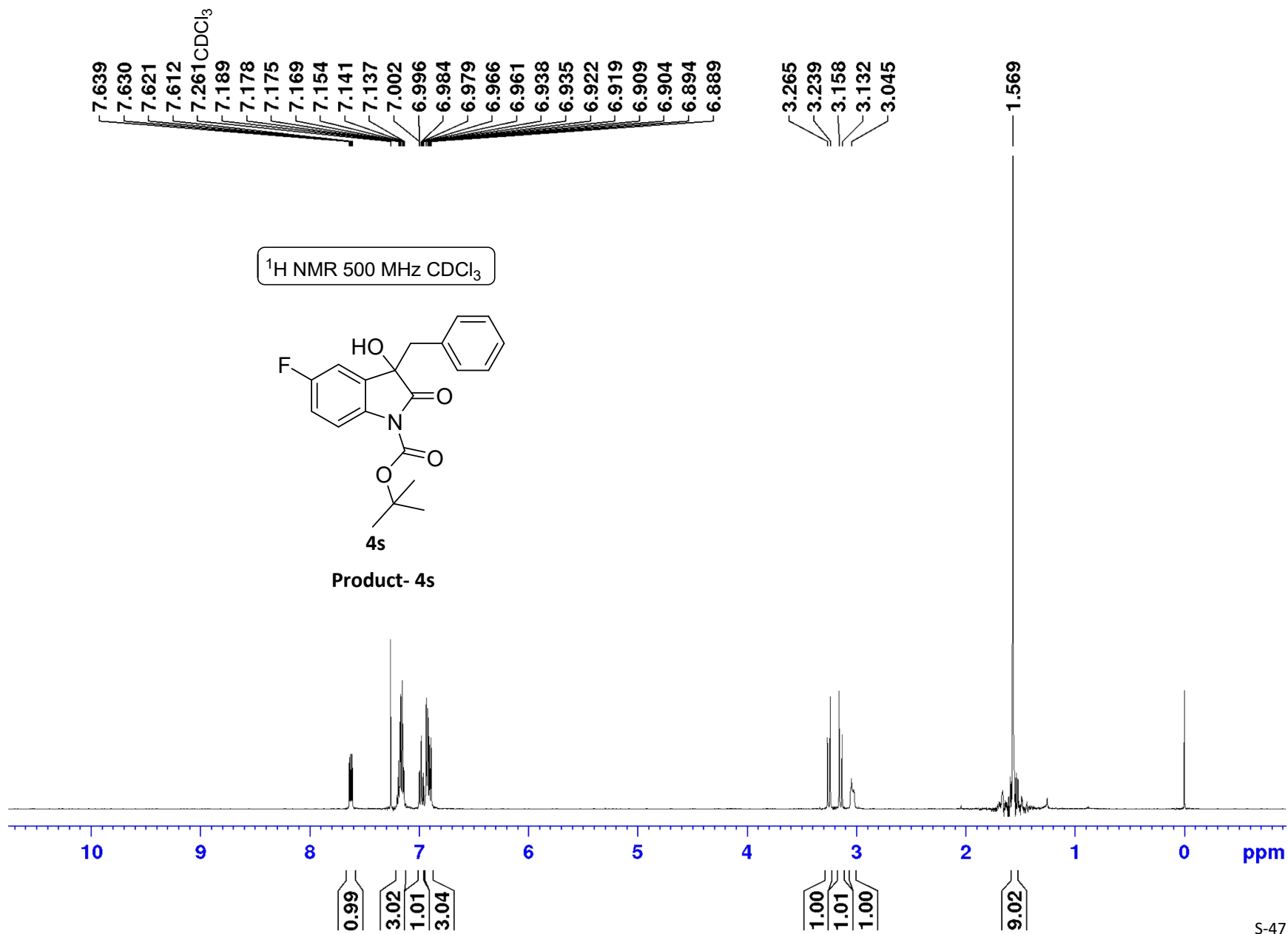


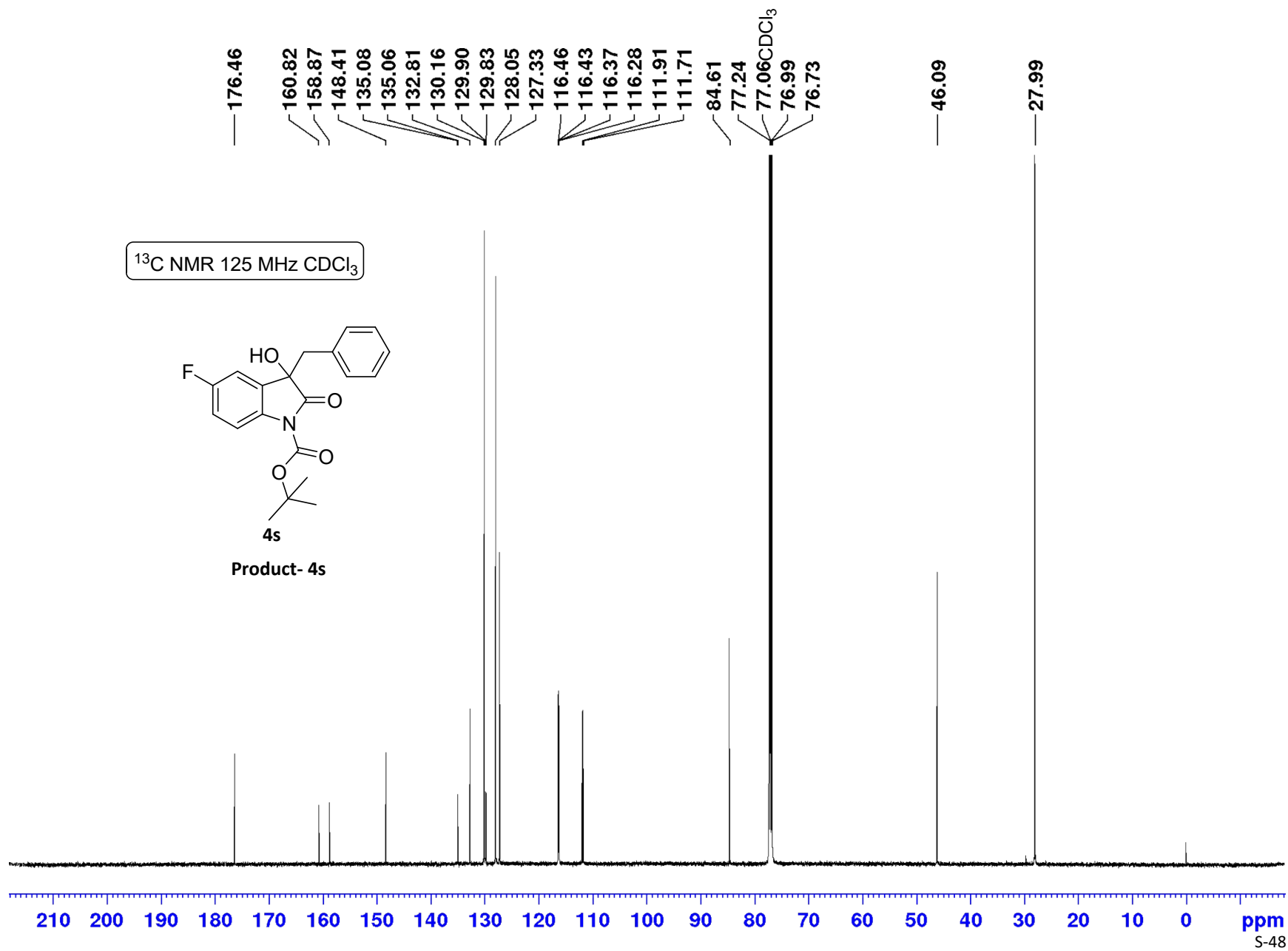
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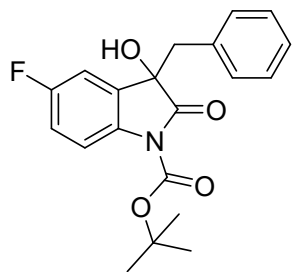




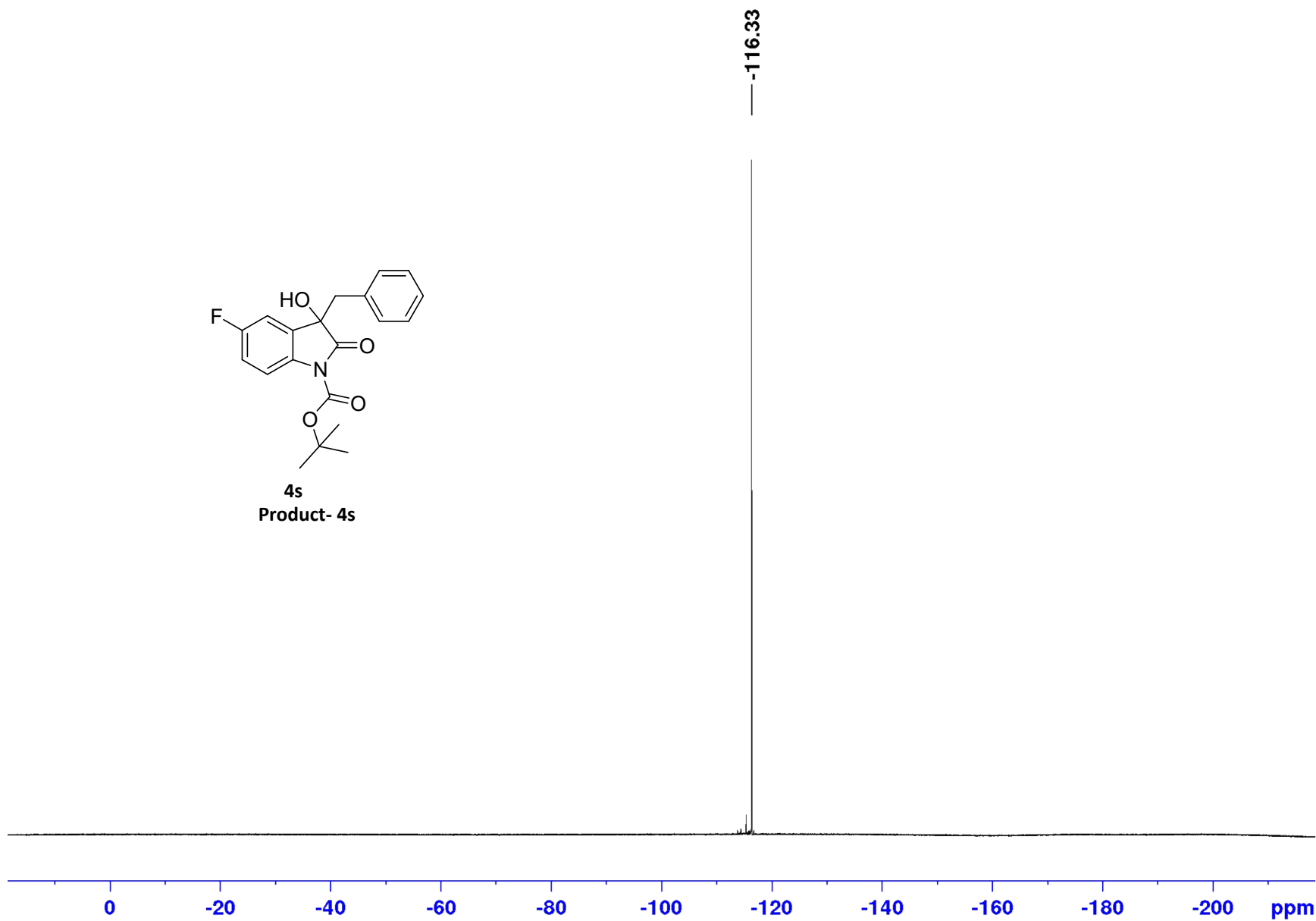


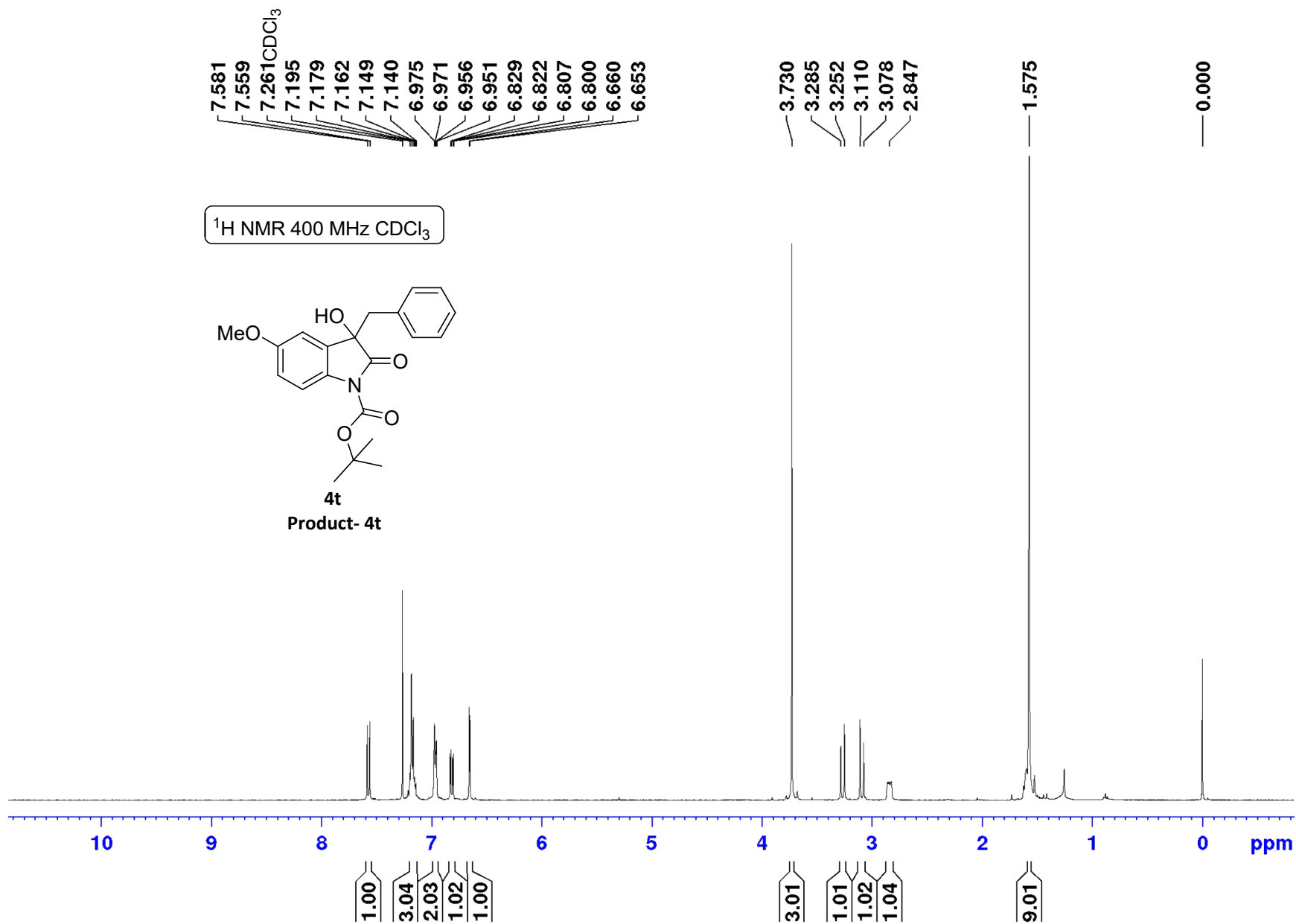




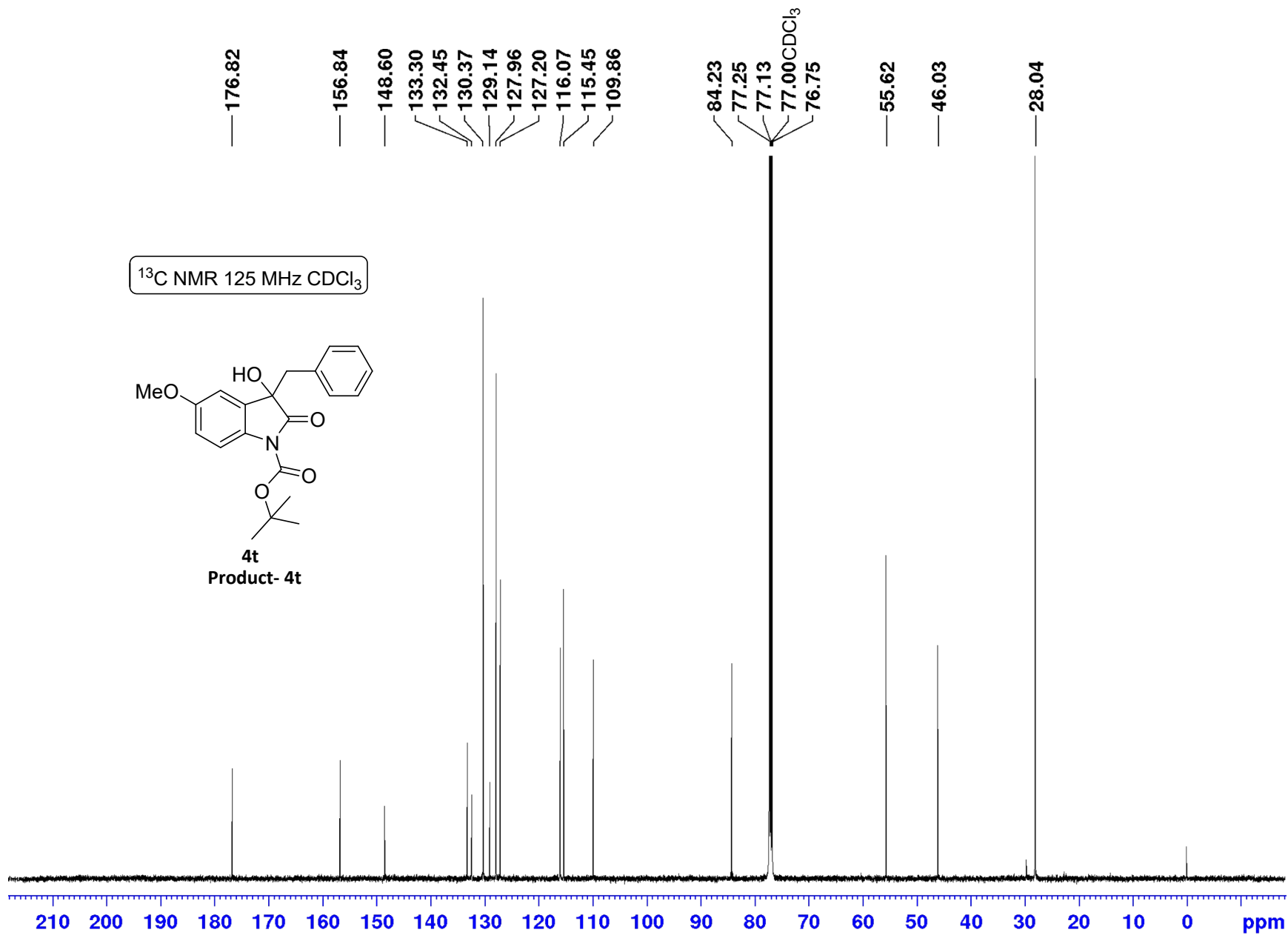
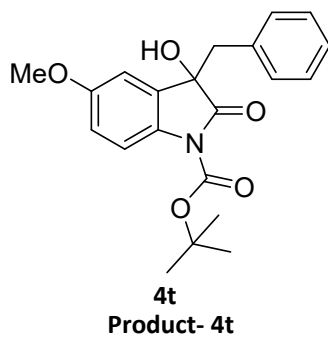


4s
Product- 4s

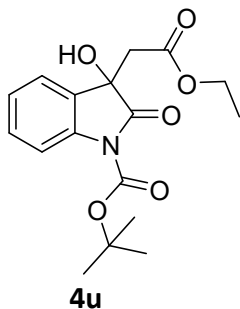




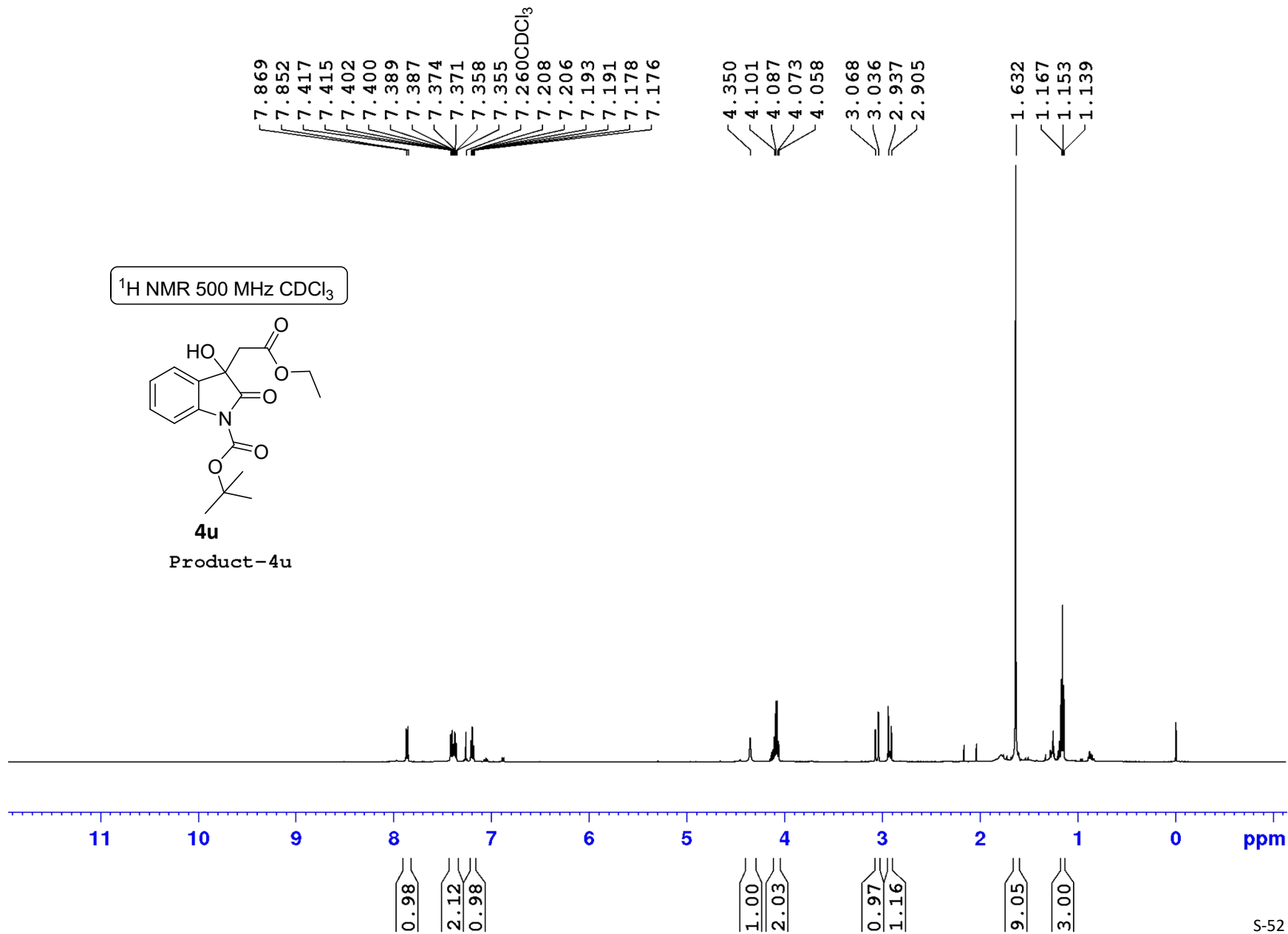
¹³C NMR 125 MHz CDCl₃



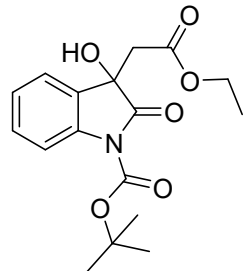
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Product-4u

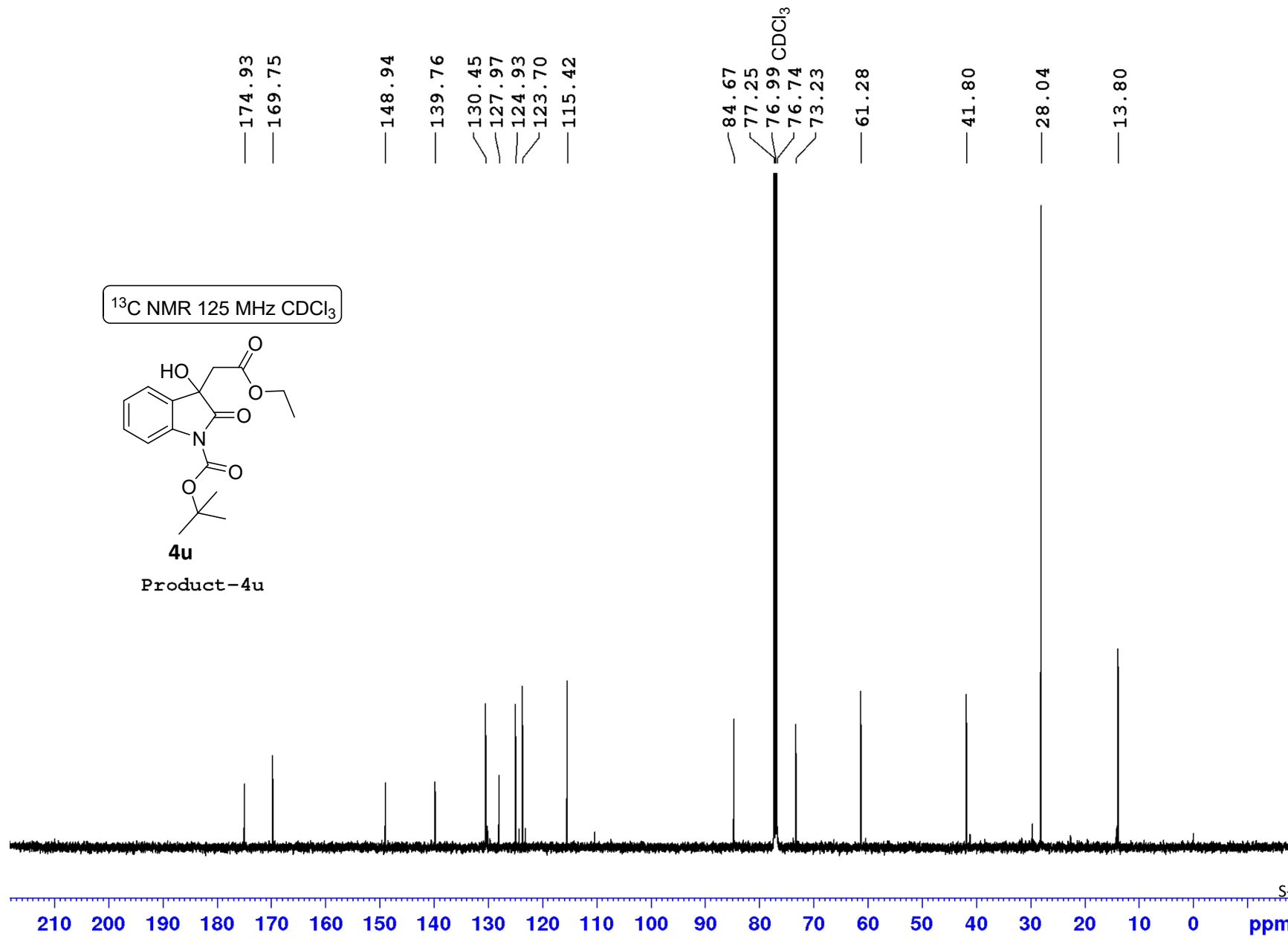


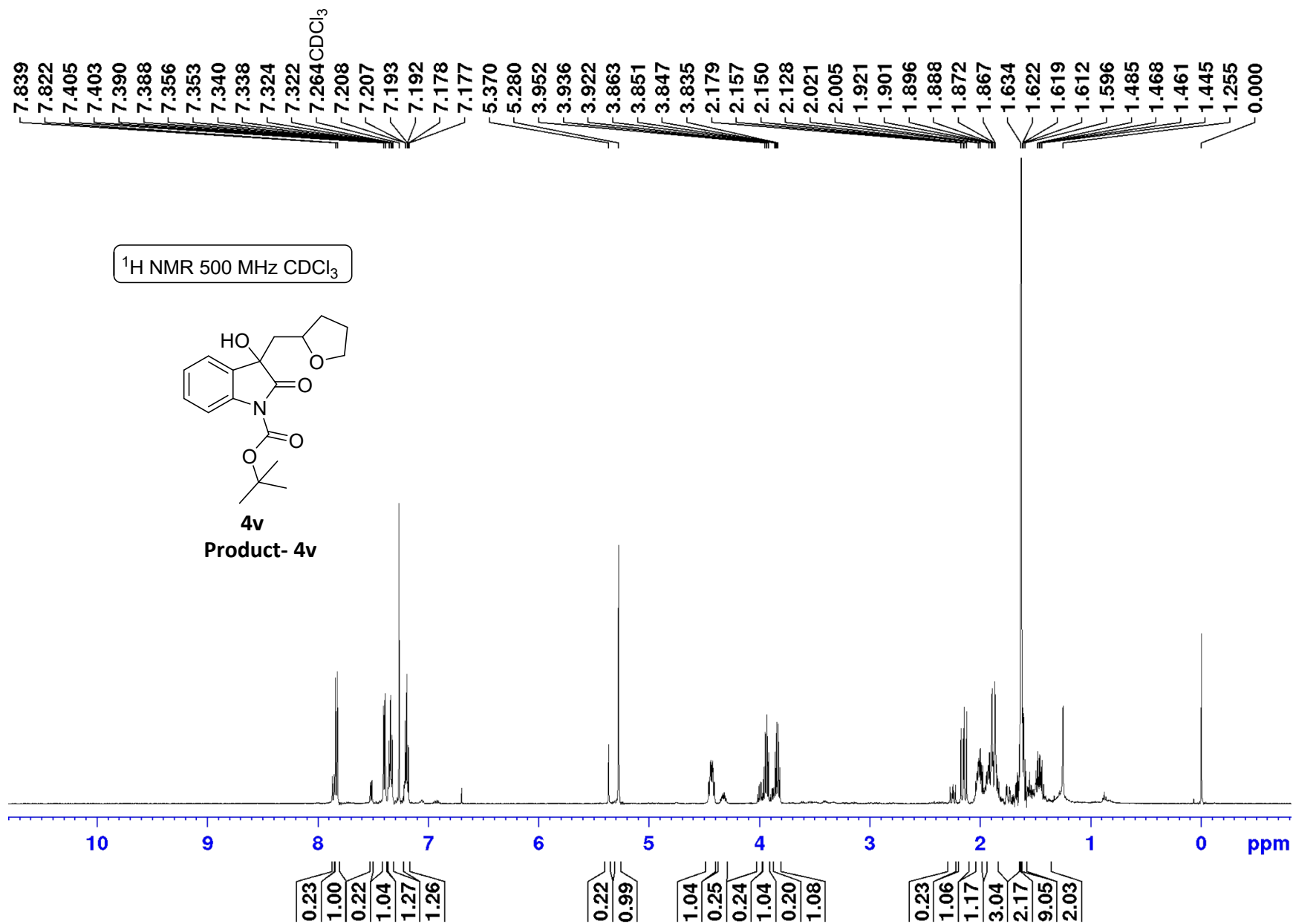
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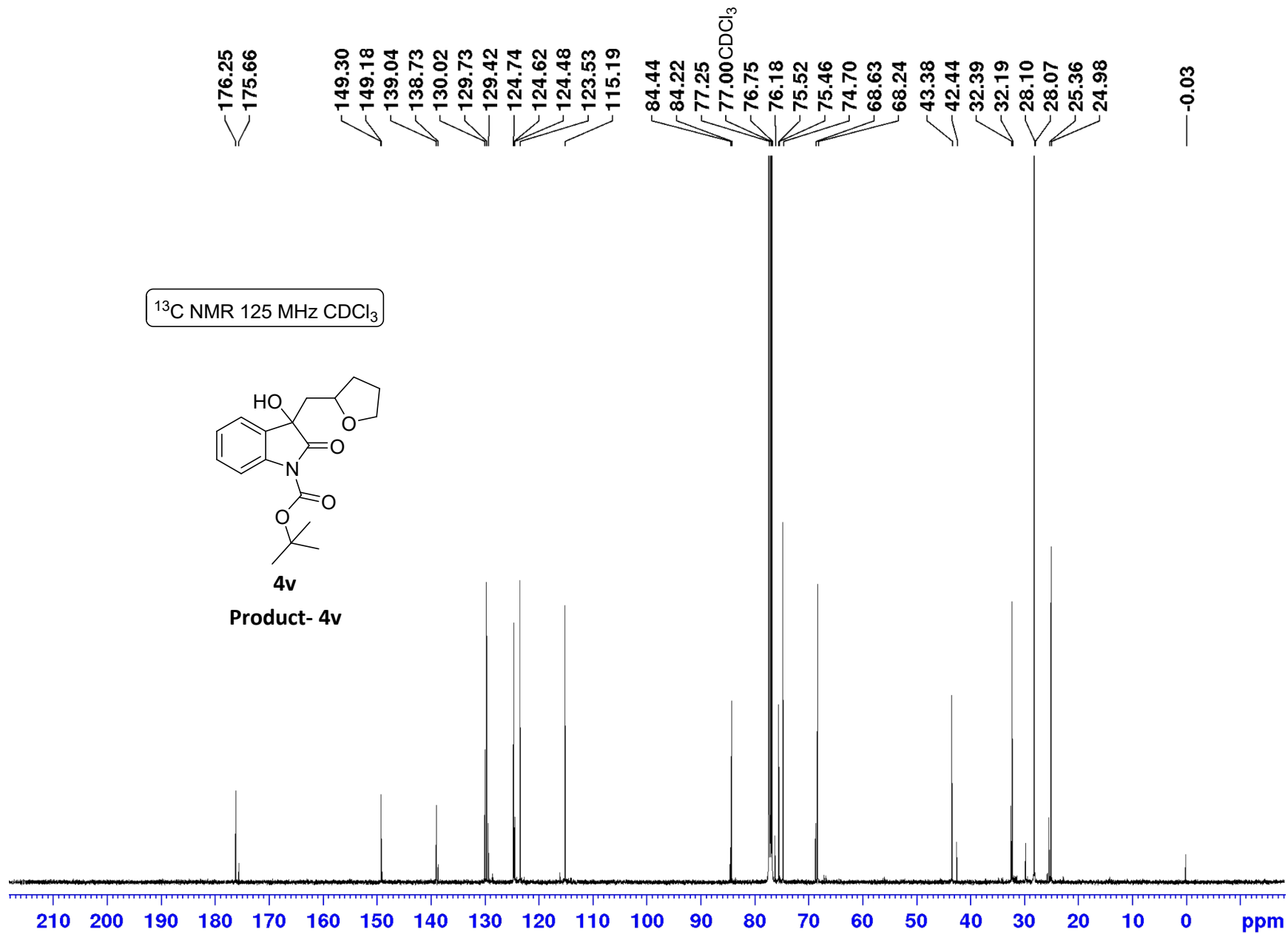


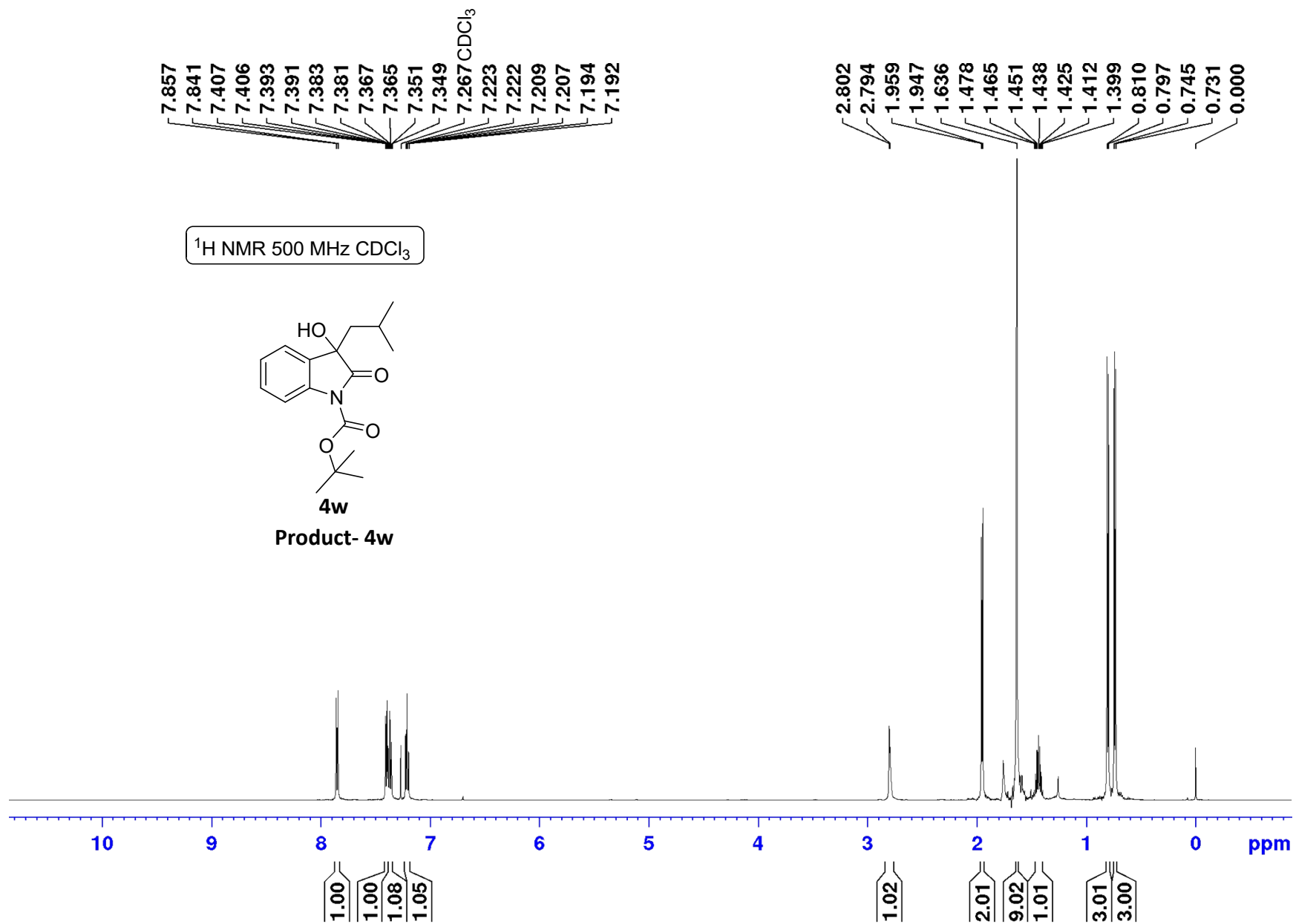
4u

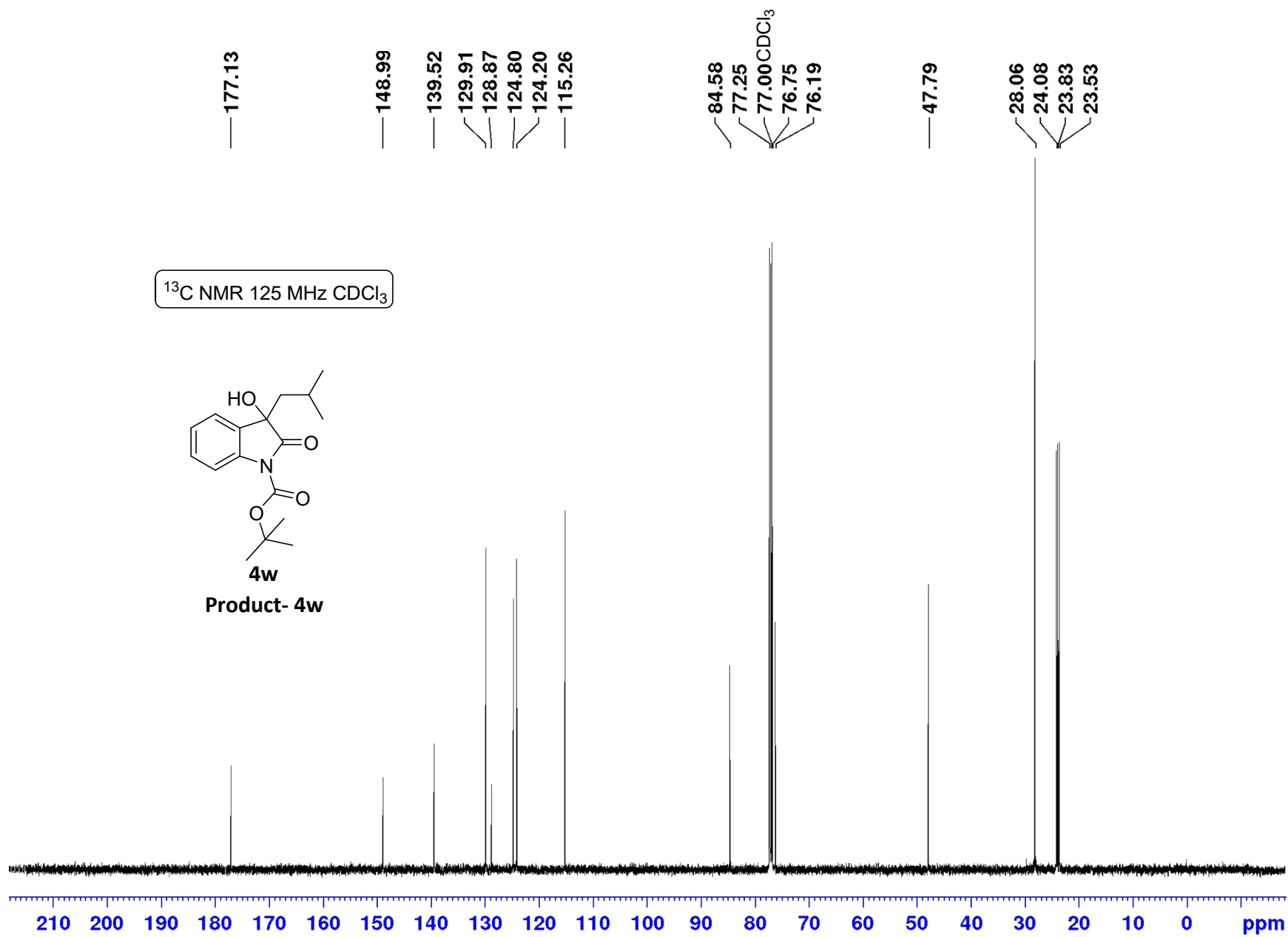
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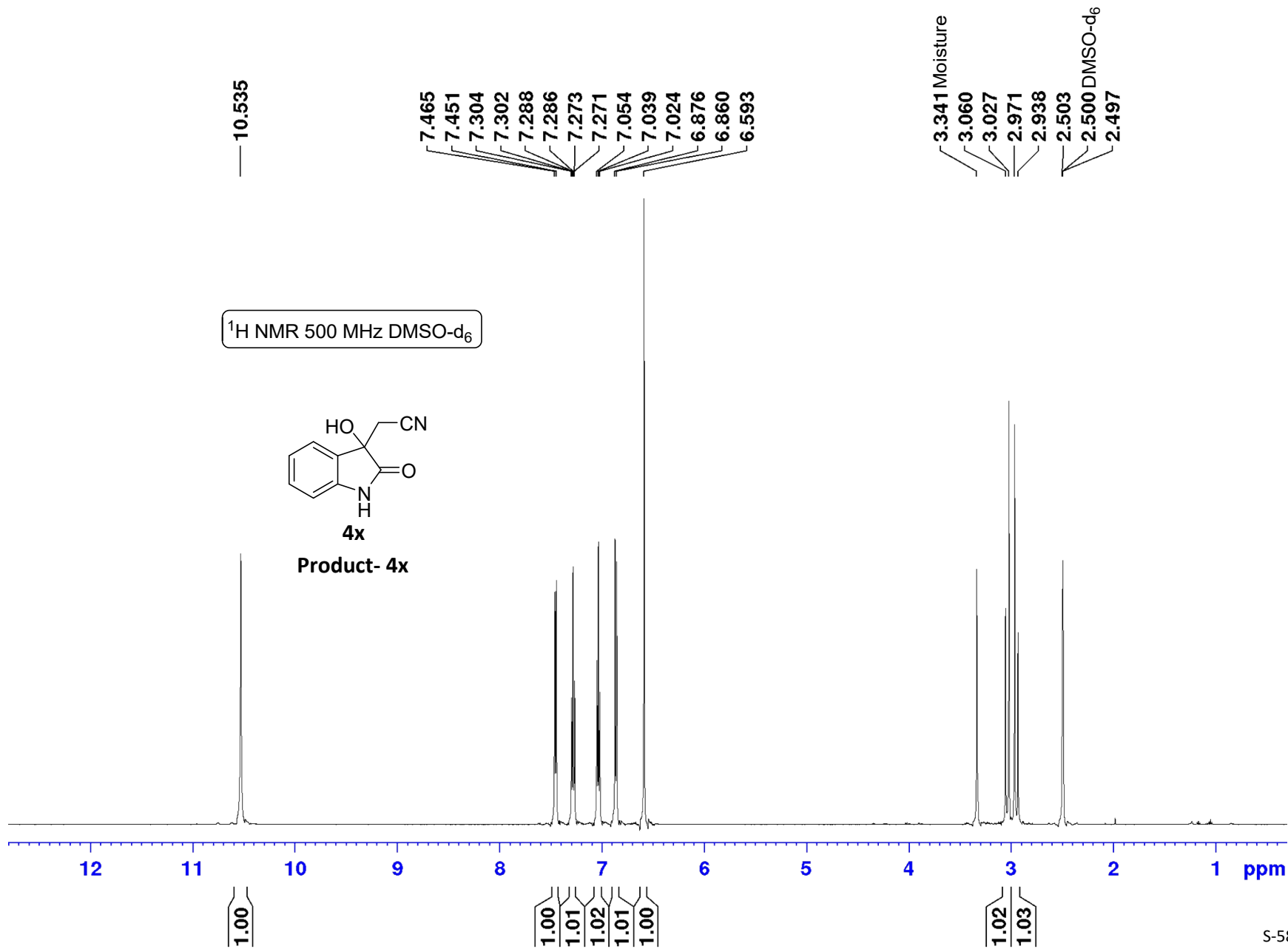




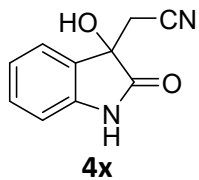




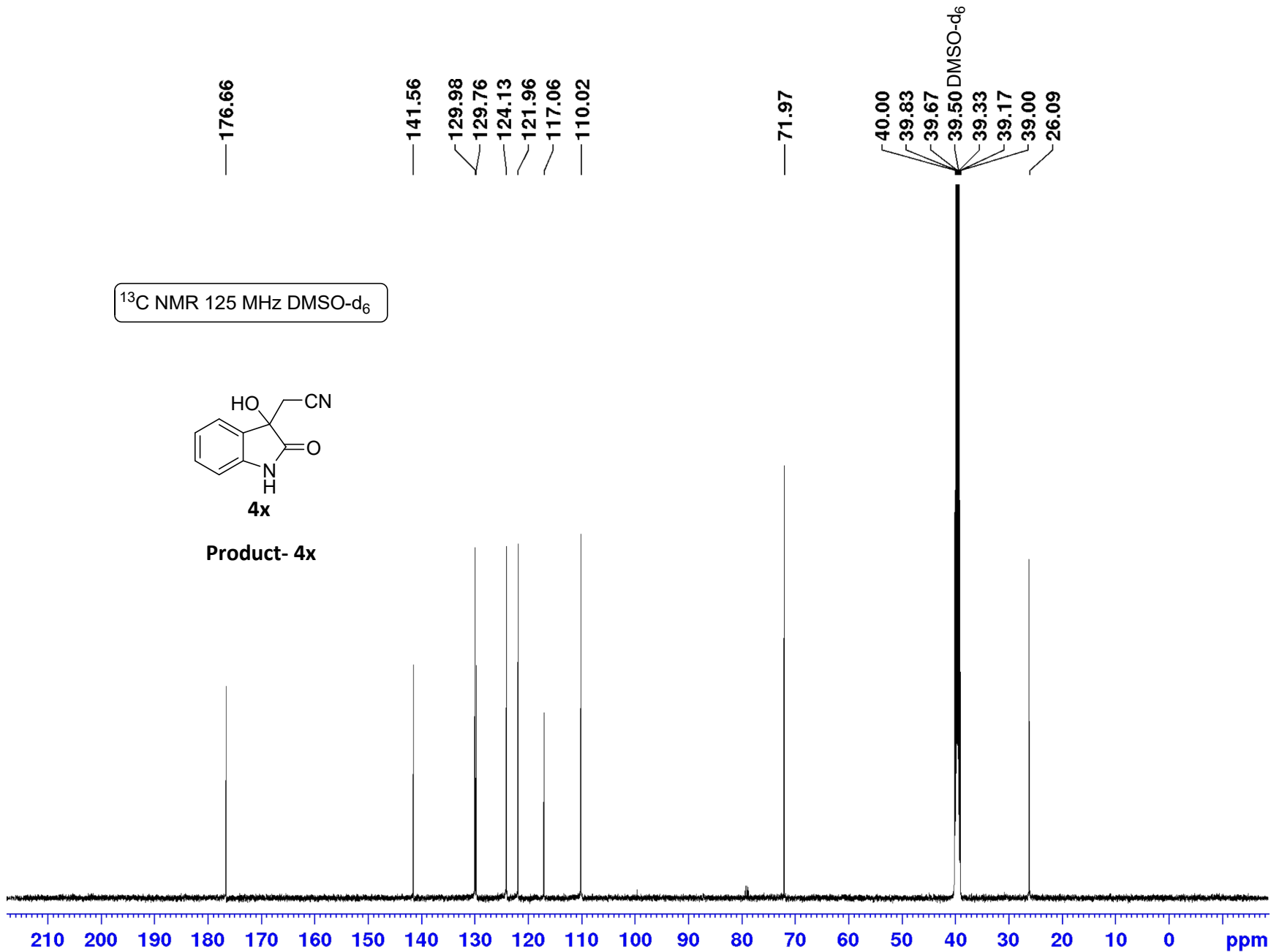


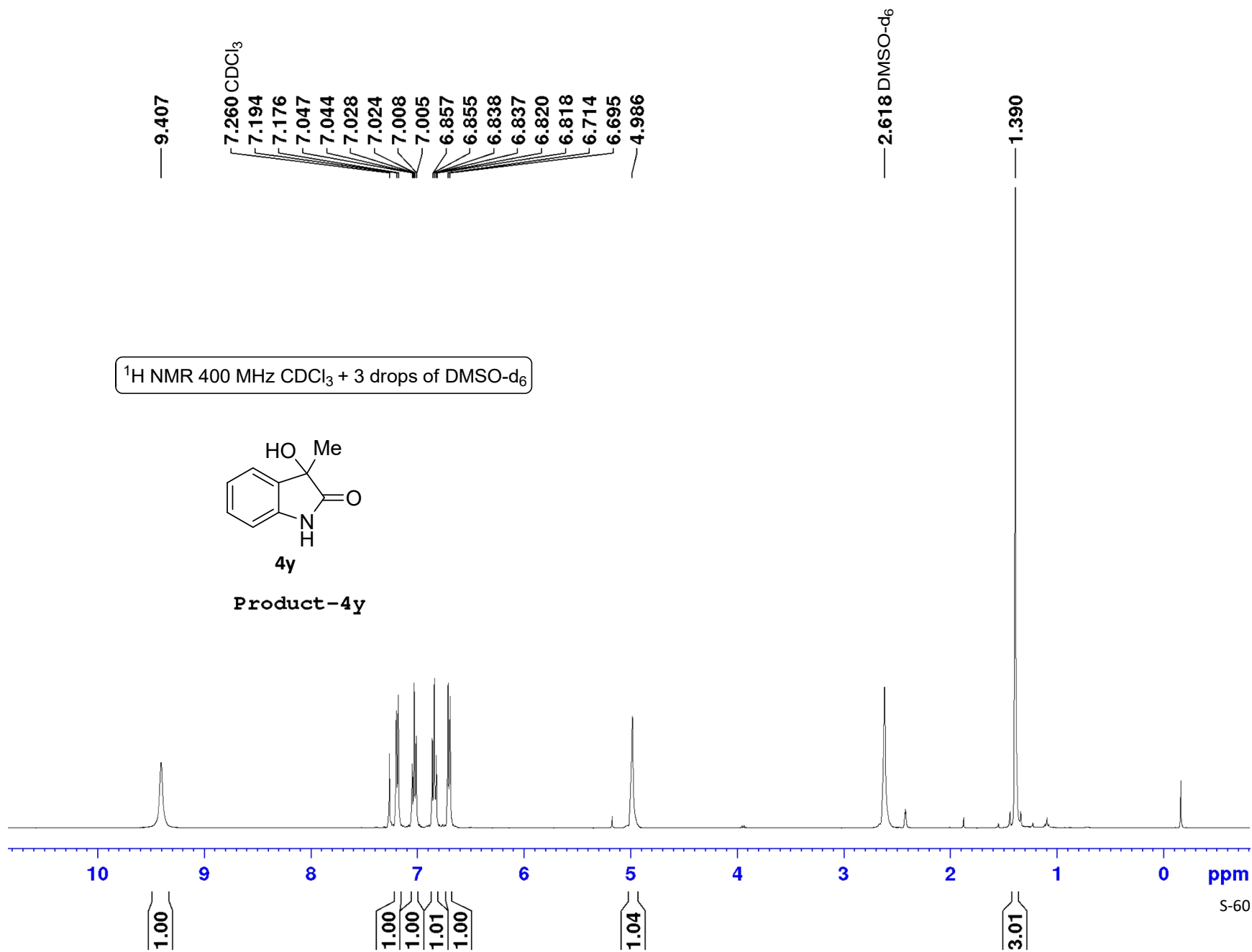


¹³C NMR 125 MHz DMSO-d₆

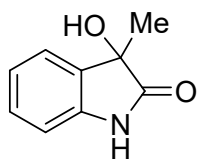


Product- 4x



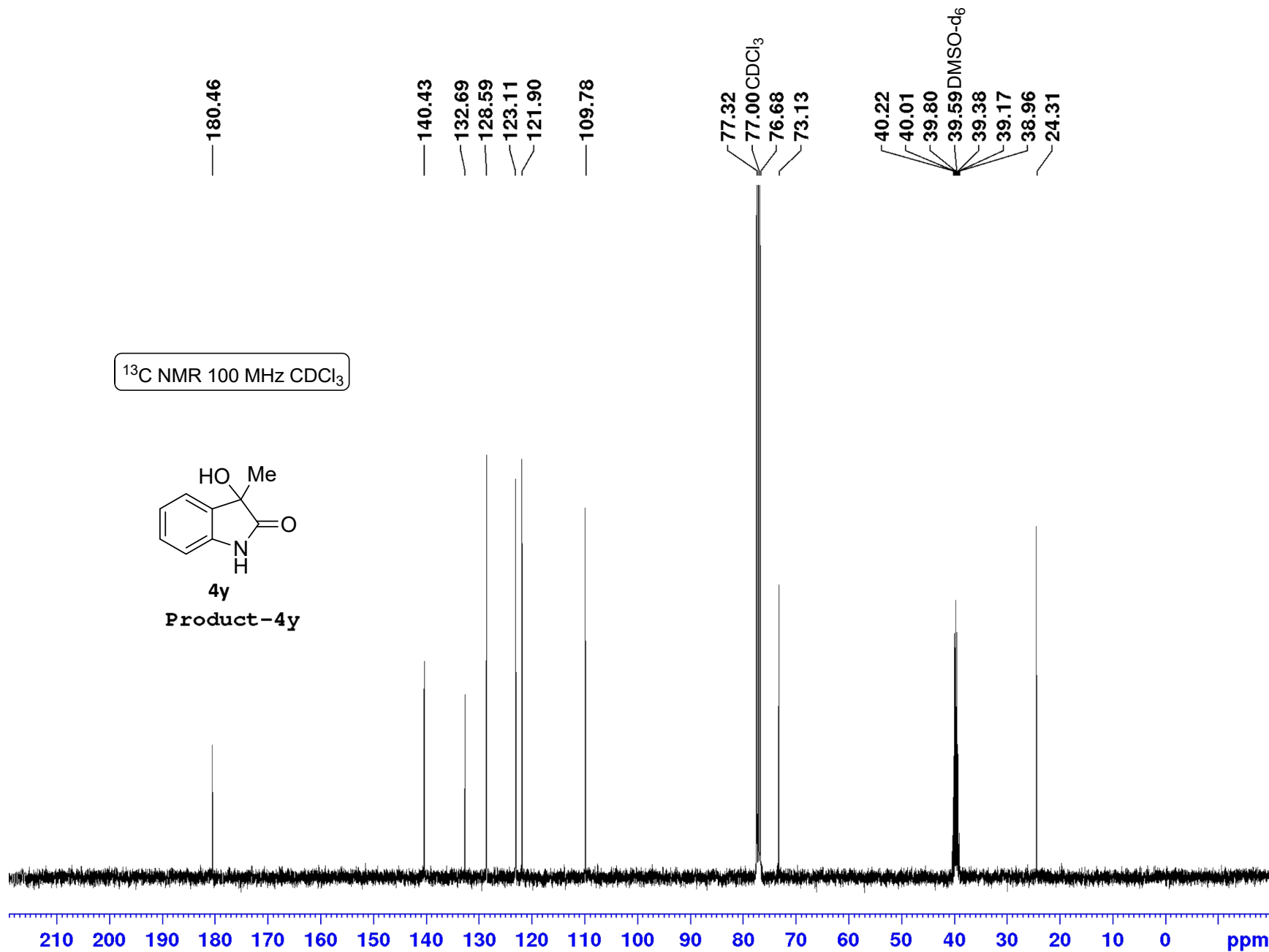


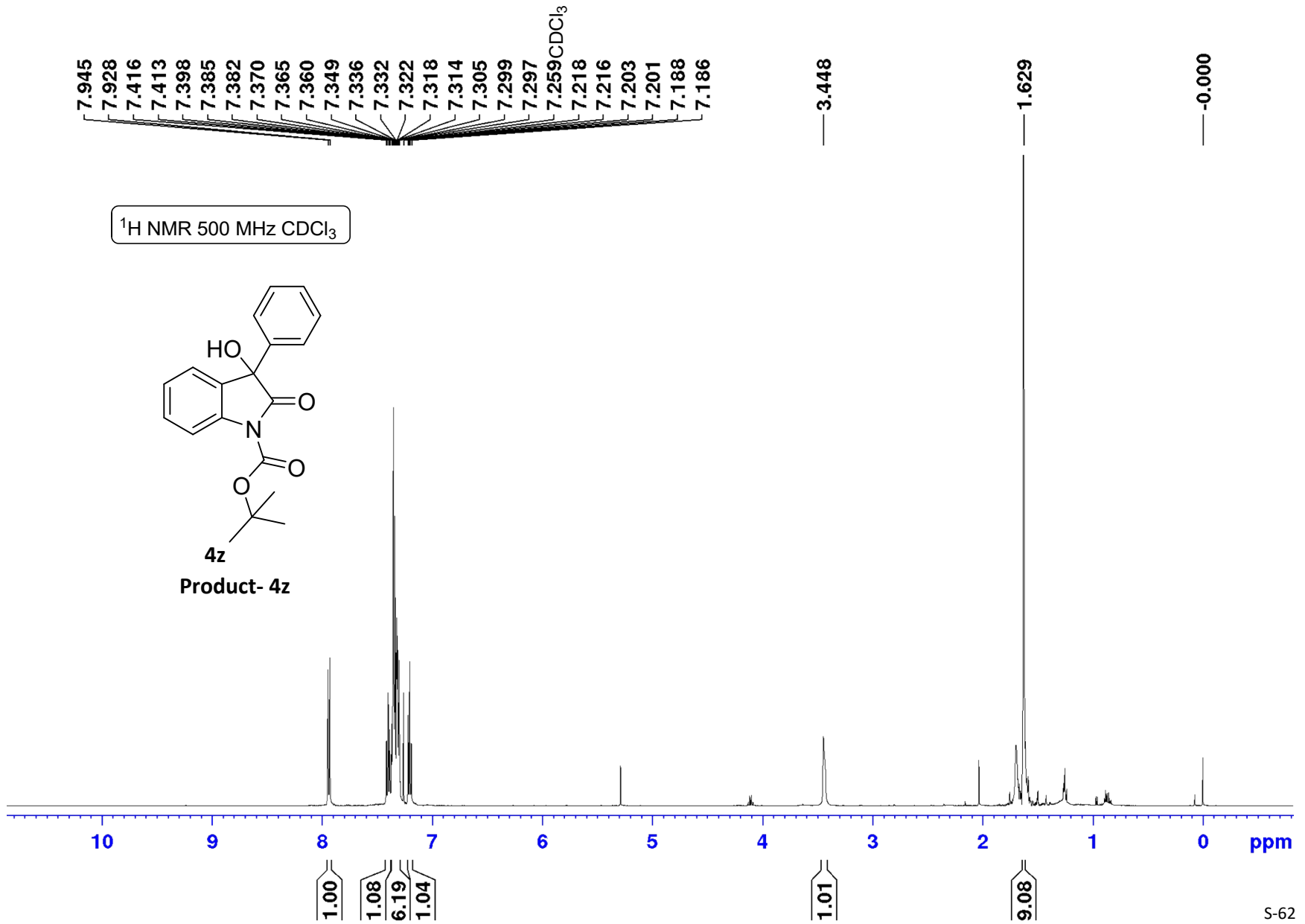
^{13}C NMR 100 MHz CDCl_3

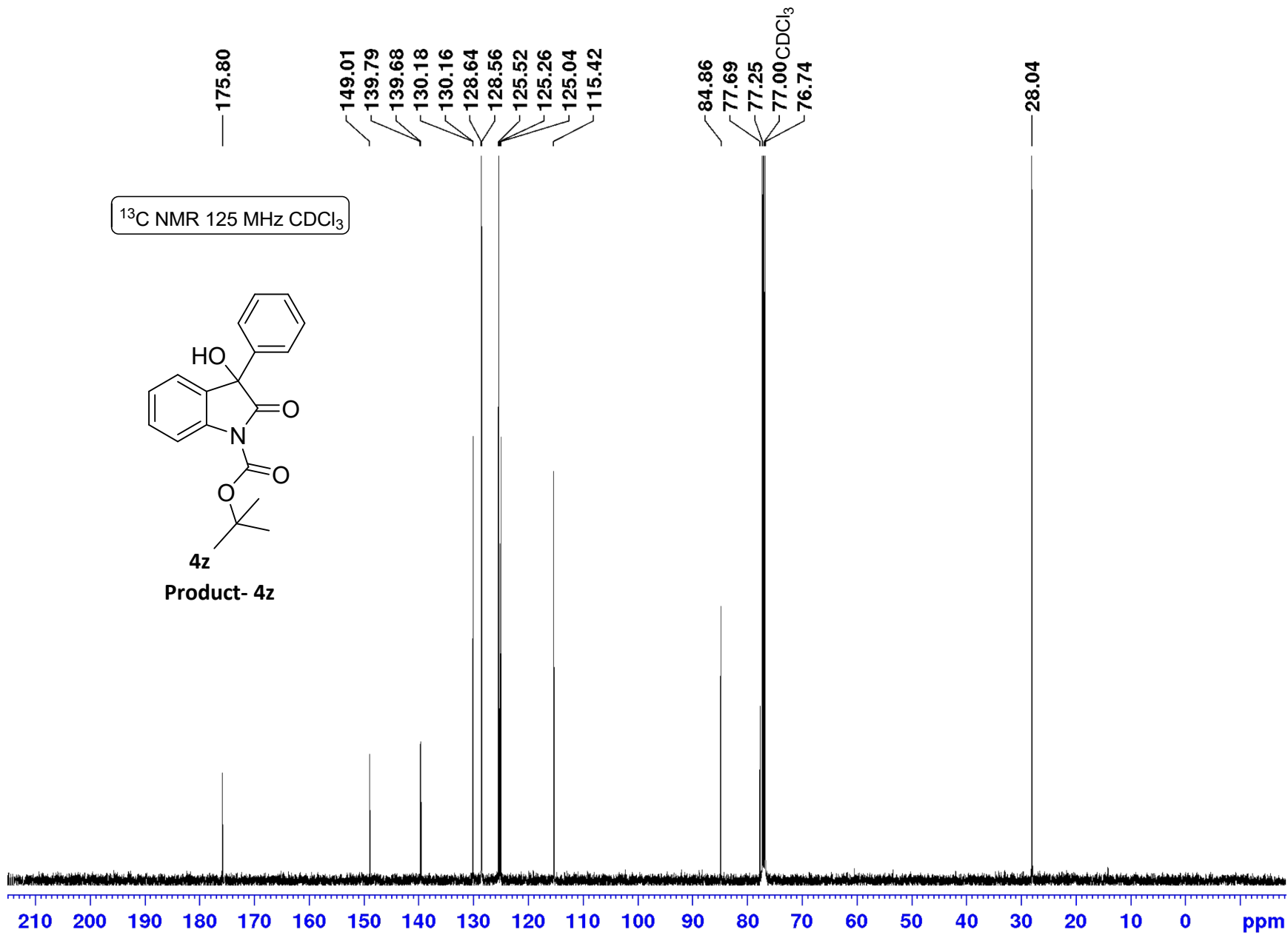


4y

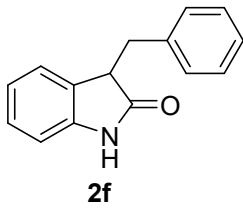
Product-4y



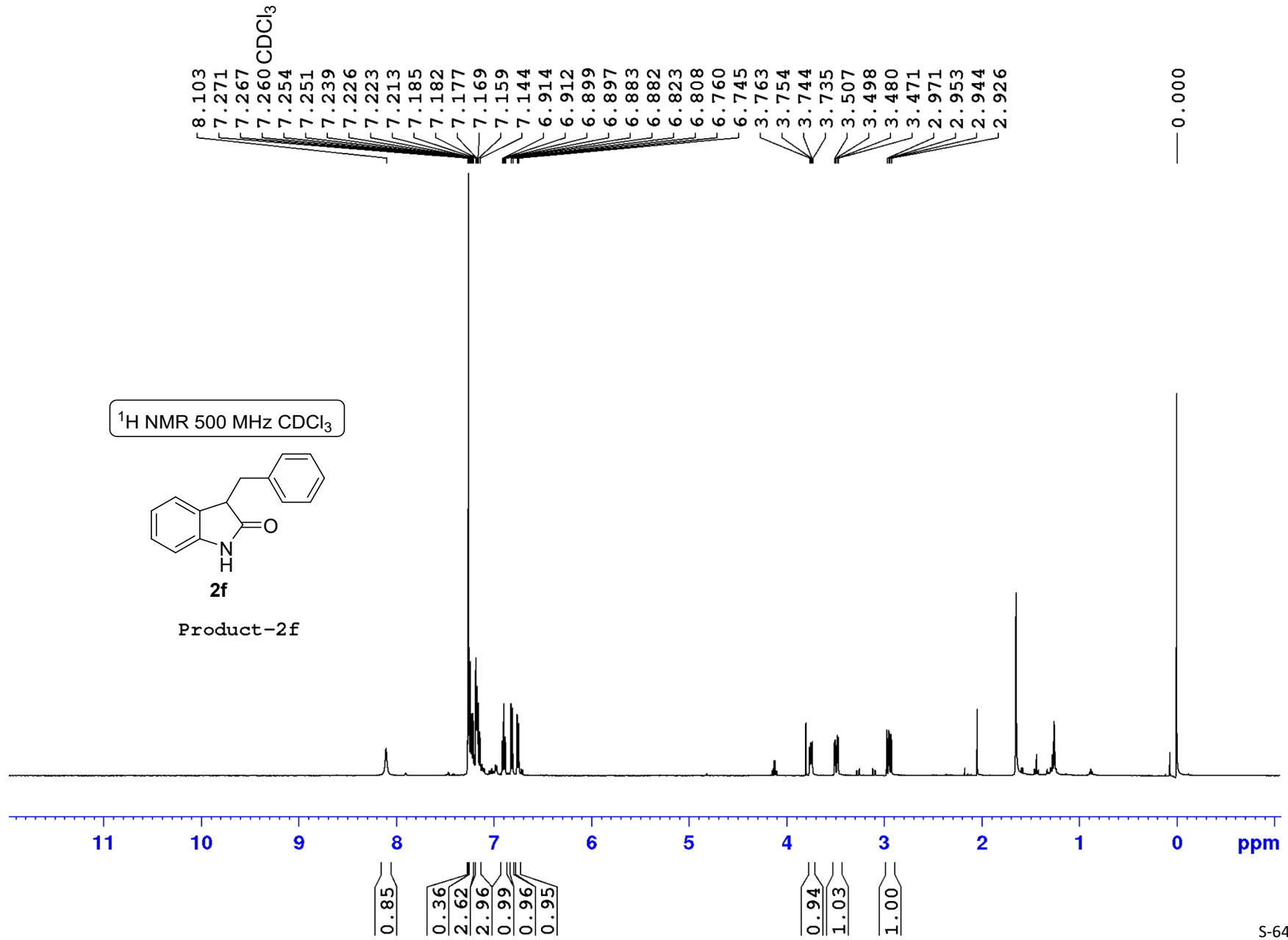




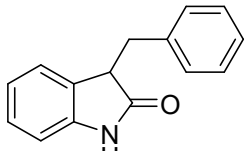
¹H NMR 500 MHz CDCl₃



Product-2f



¹³C NMR 100 MHz CDCl₃



2f

Product-2f

