

Supporting Information-III

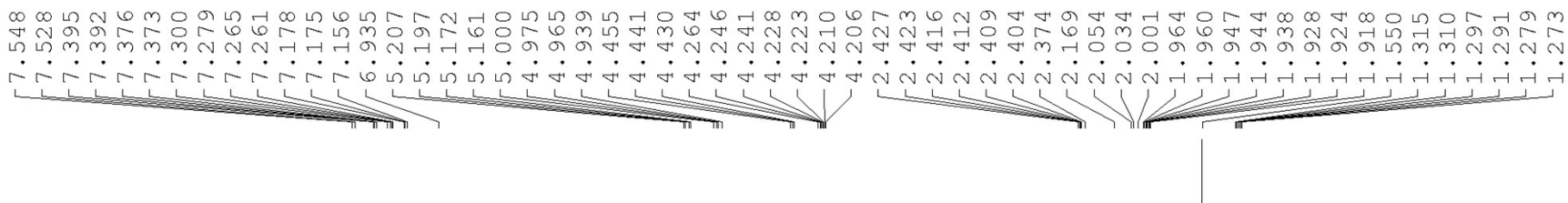
Rawal's Catalyst as an Effective Stimulant for the Highly Asymmetric Michael Addition of β -Keto Esters to Functionally Rich Nitro-olefins

A. Suresh Kumar, T. Prabhakar Reddy, R. Madhavachary, and Dhevalapally B. Ramachary*

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

Hyderabad 500 046, India

E-mail: ramsc@uohyd.ernet.in or ramchary.db@gmail.com



— 213.03

— 169.44

— 153.99

— 137.09
— 130.19
— 128.61
— 127.48
— 127.21
— 125.80

— 80.37
— 77.25
— 77.02
— 76.94
— 76.62
— 63.00
— 62.27

— 38.53
— 37.68
— 31.43
— 28.31

— 19.38
— 13.83

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—168.90

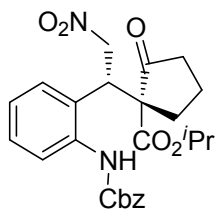
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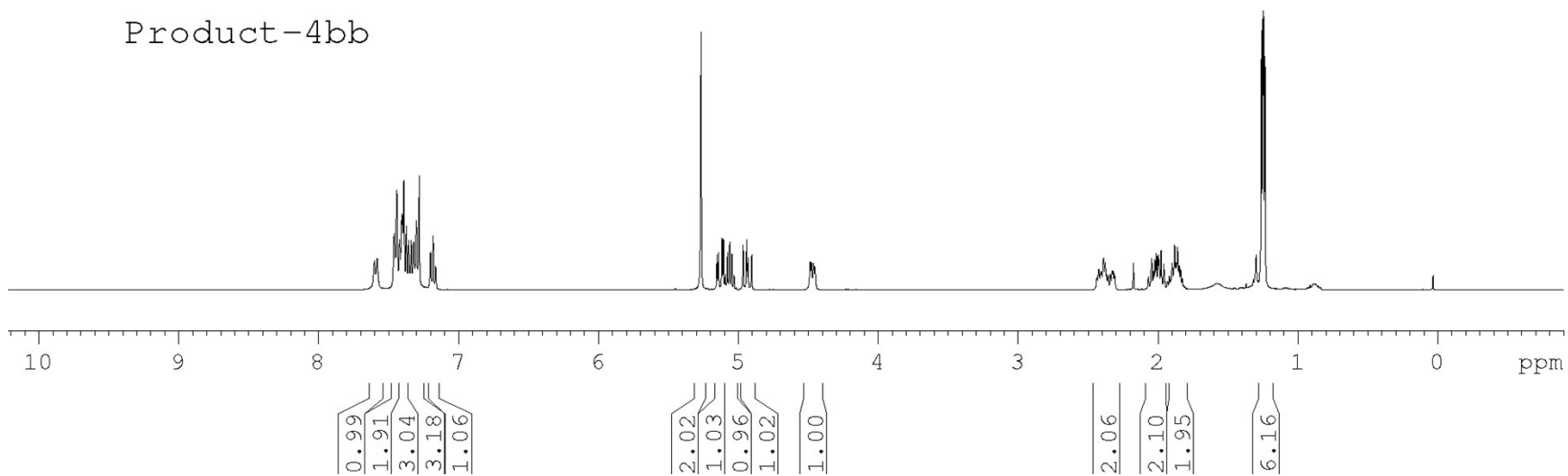
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4bb

Product-4bb



— 213.18

— 168.83

— 154.61

136.70

136.50

130.04

128.76

128.46

128.12

128.07

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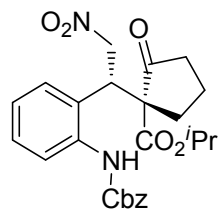
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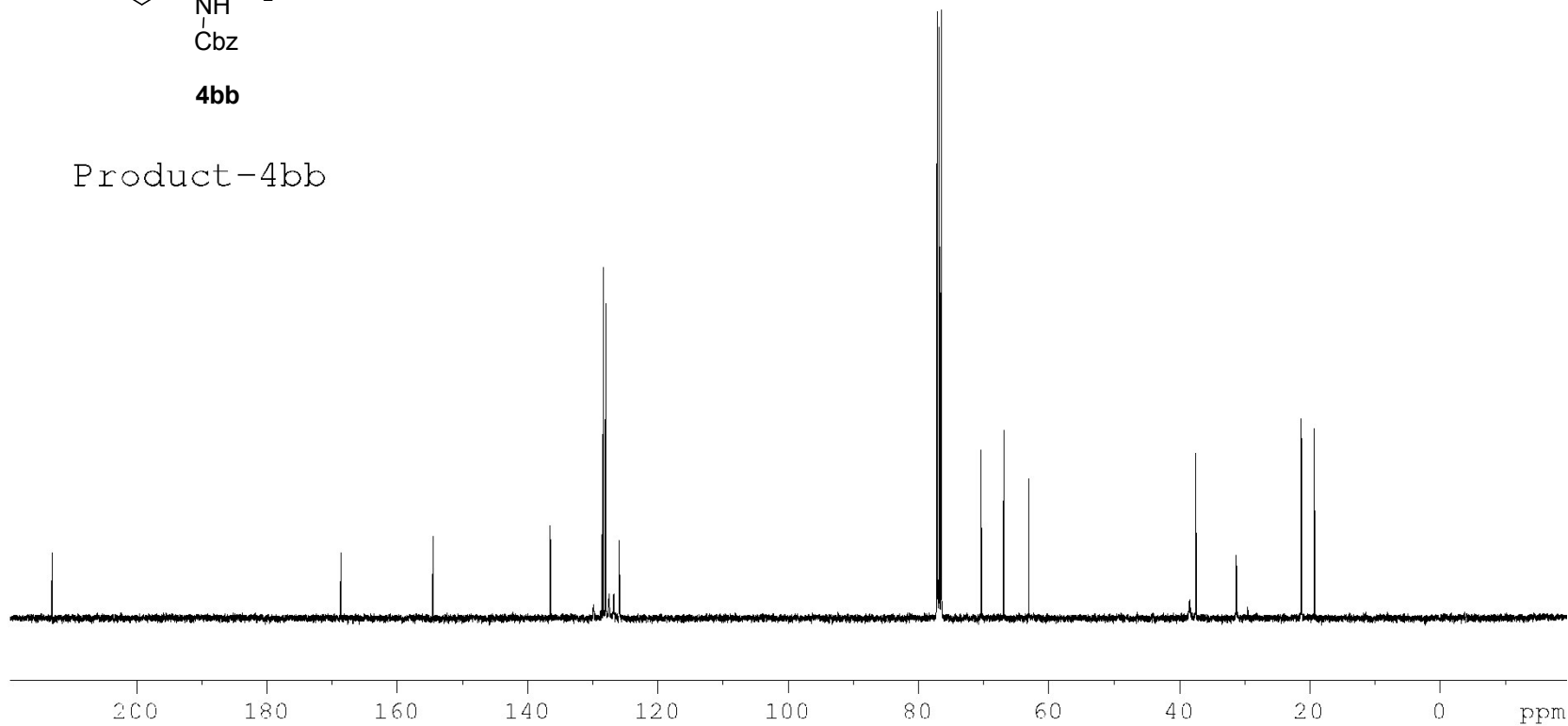
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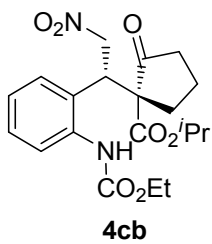


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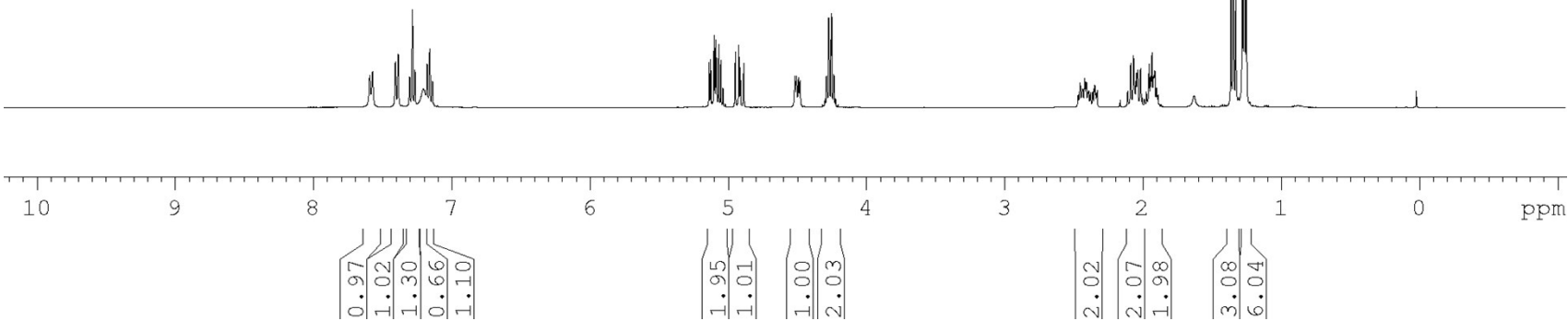
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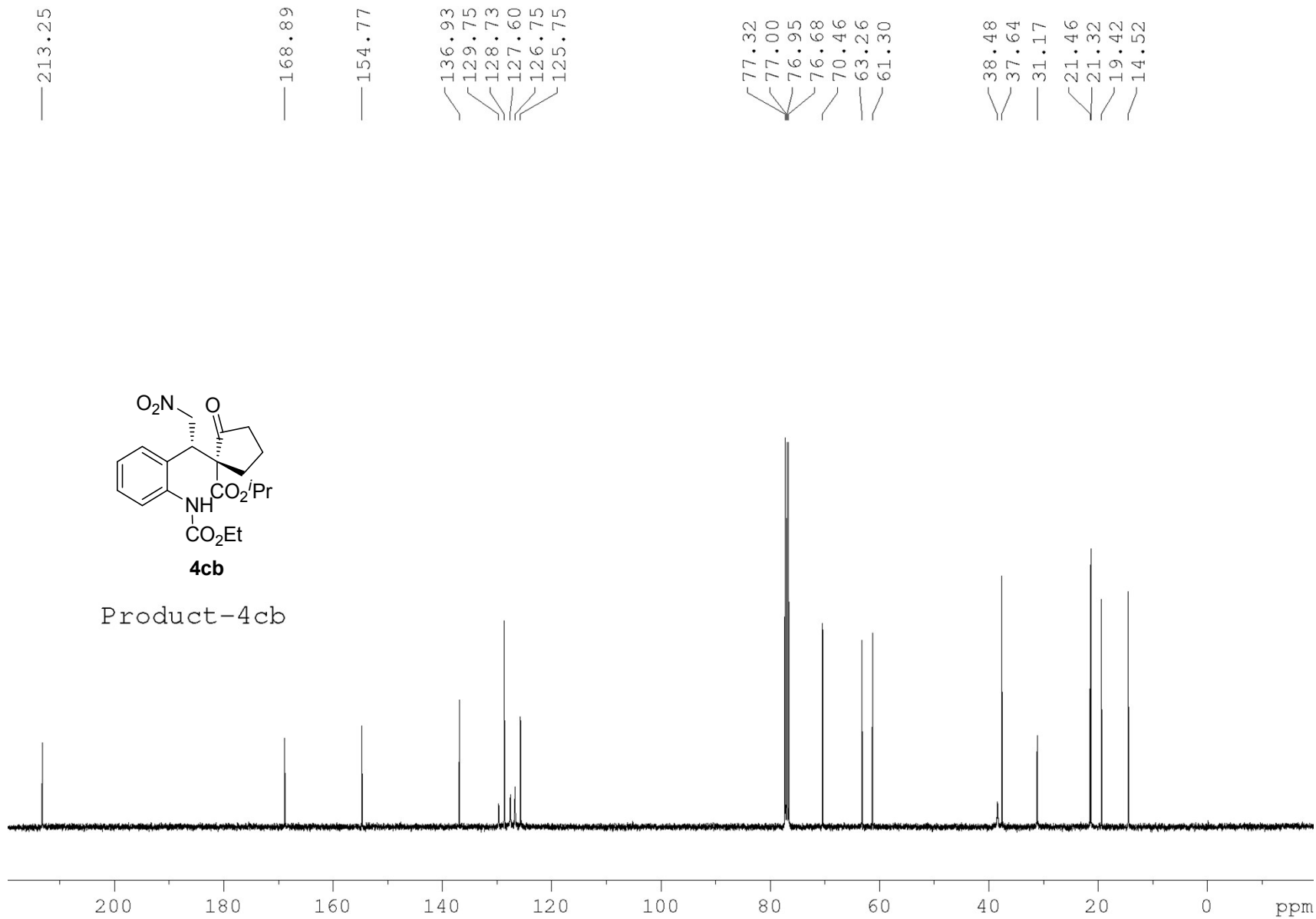


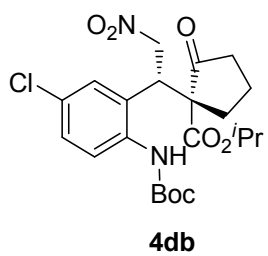
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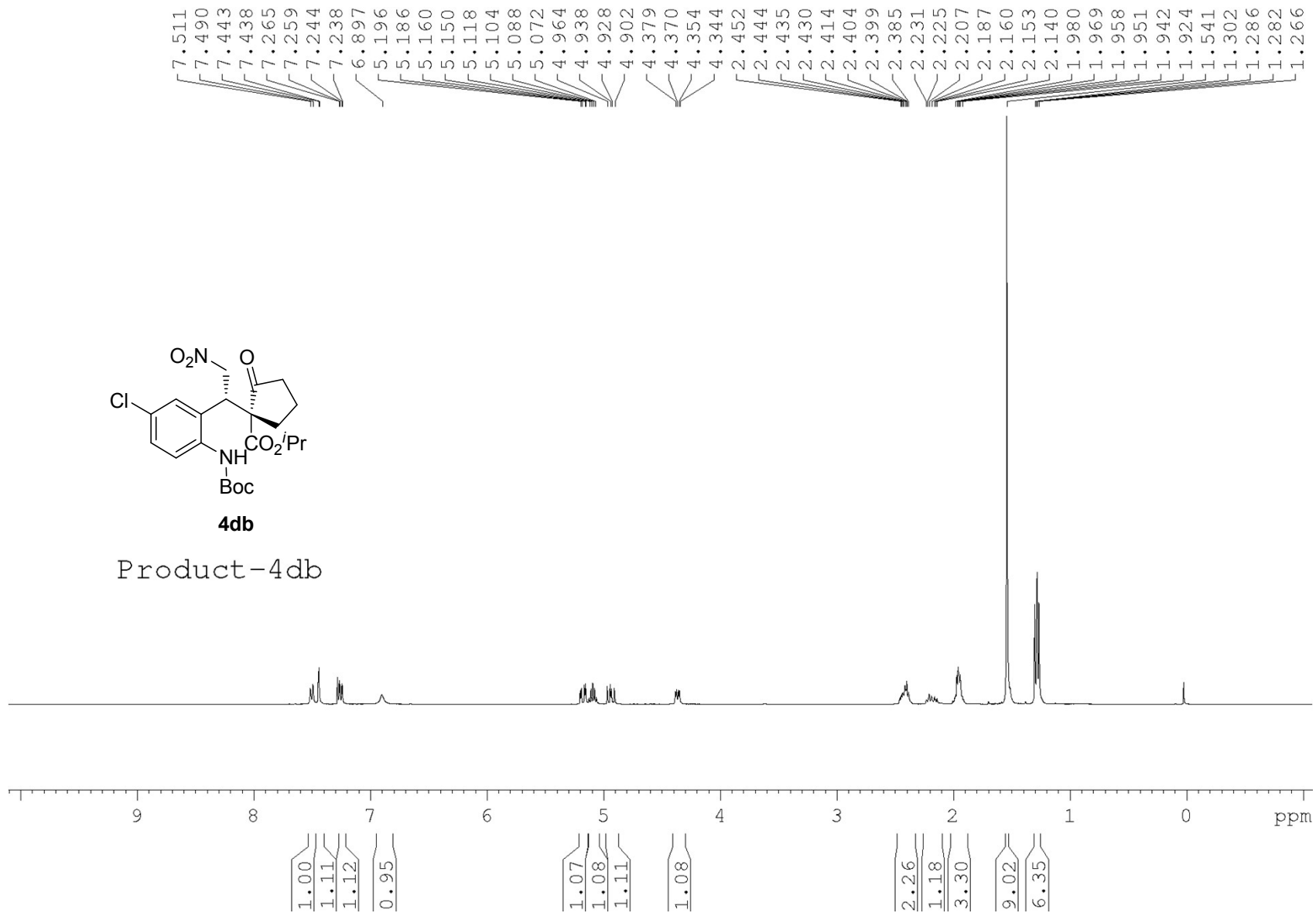
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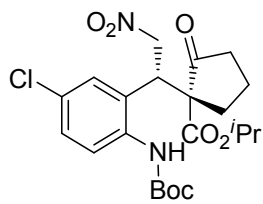
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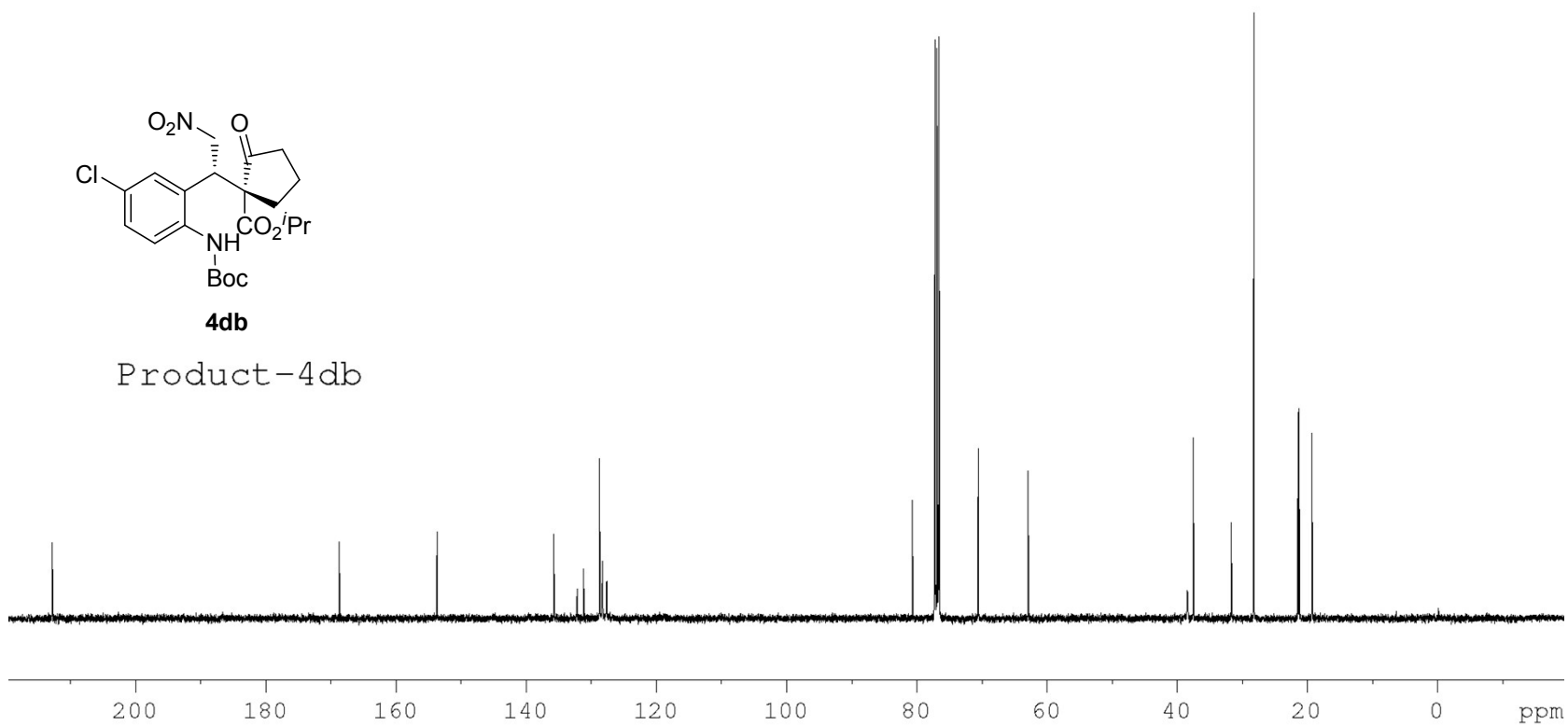
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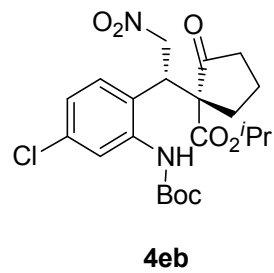
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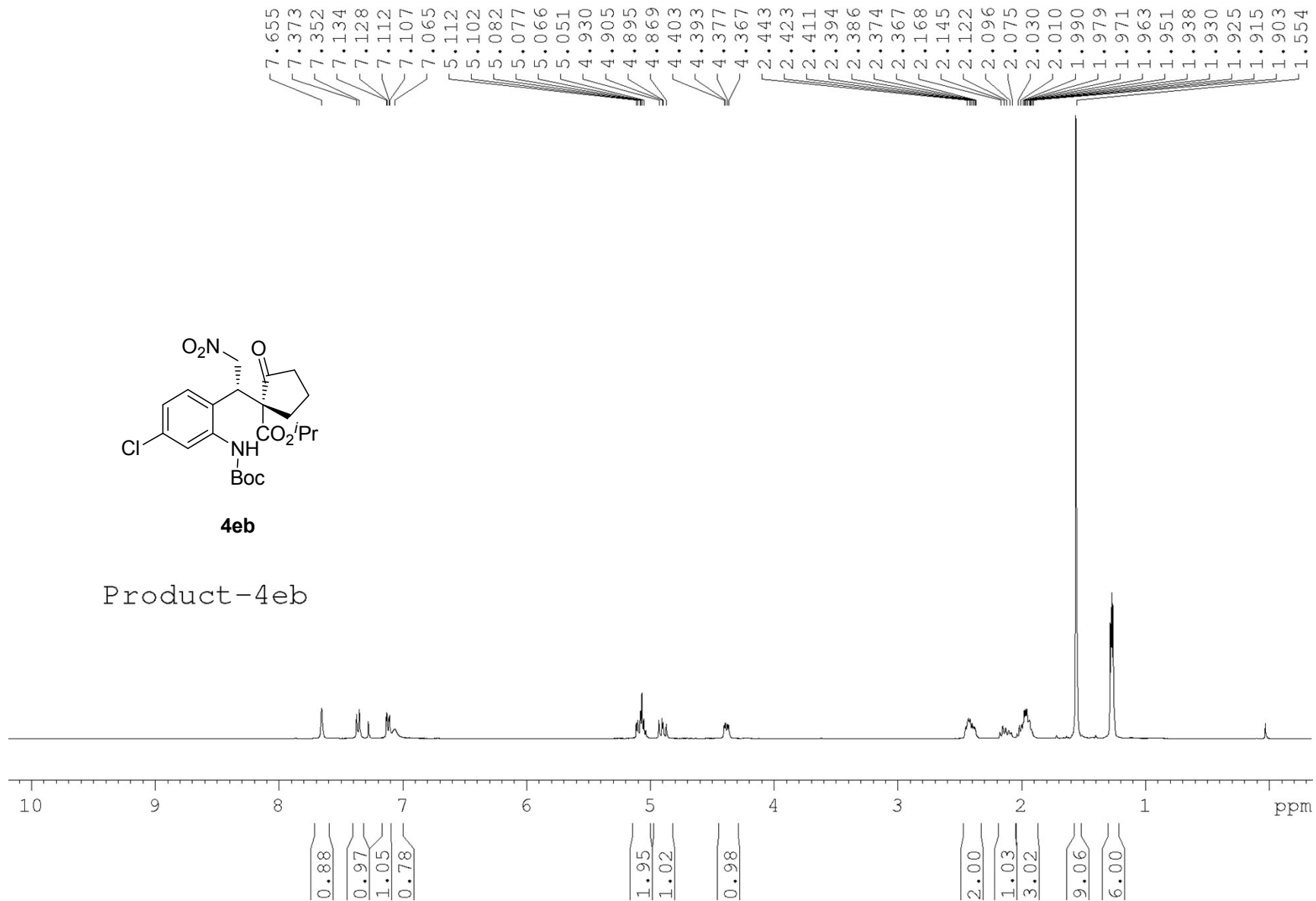
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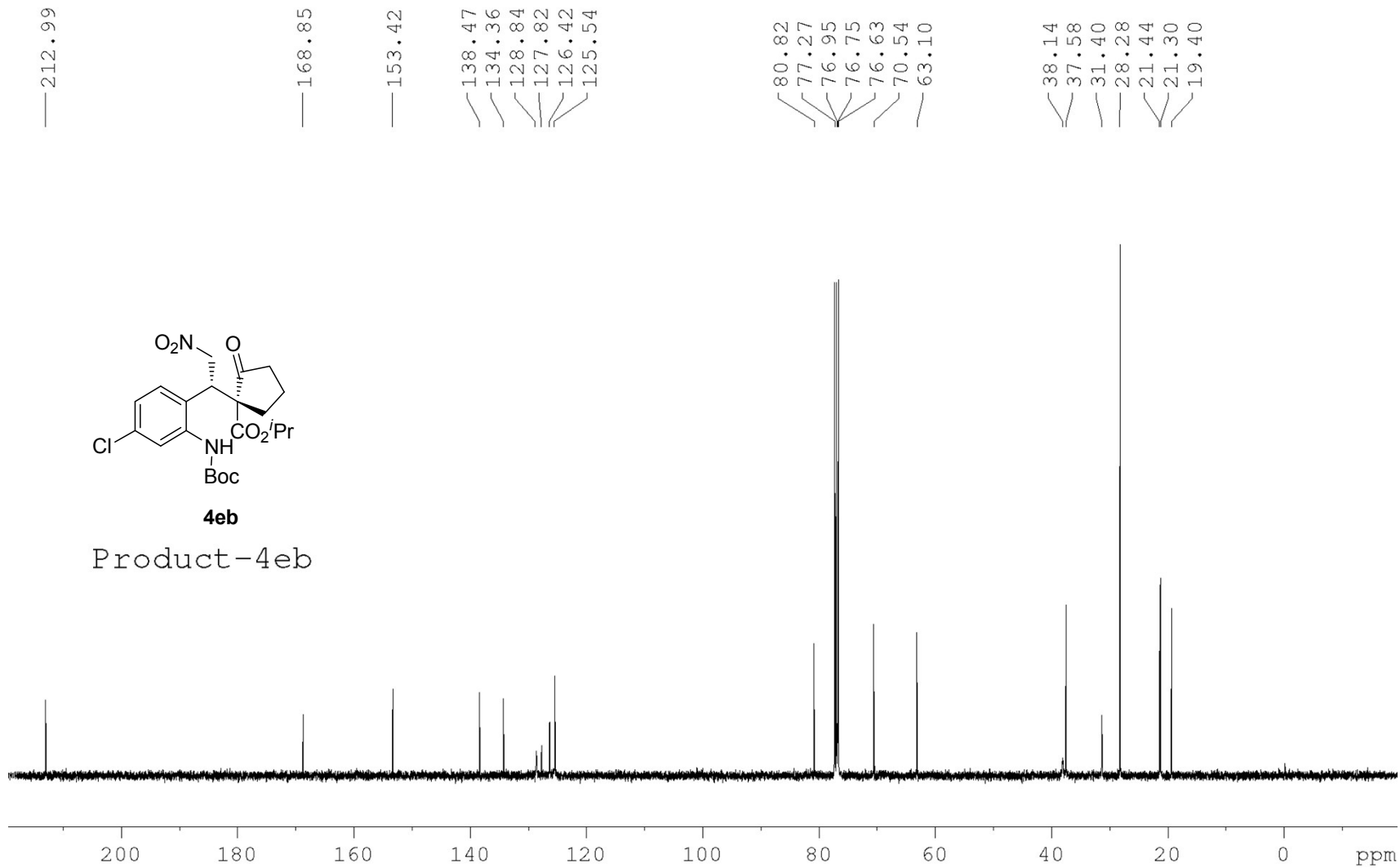
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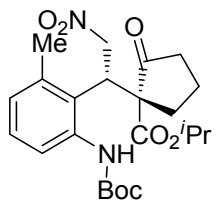


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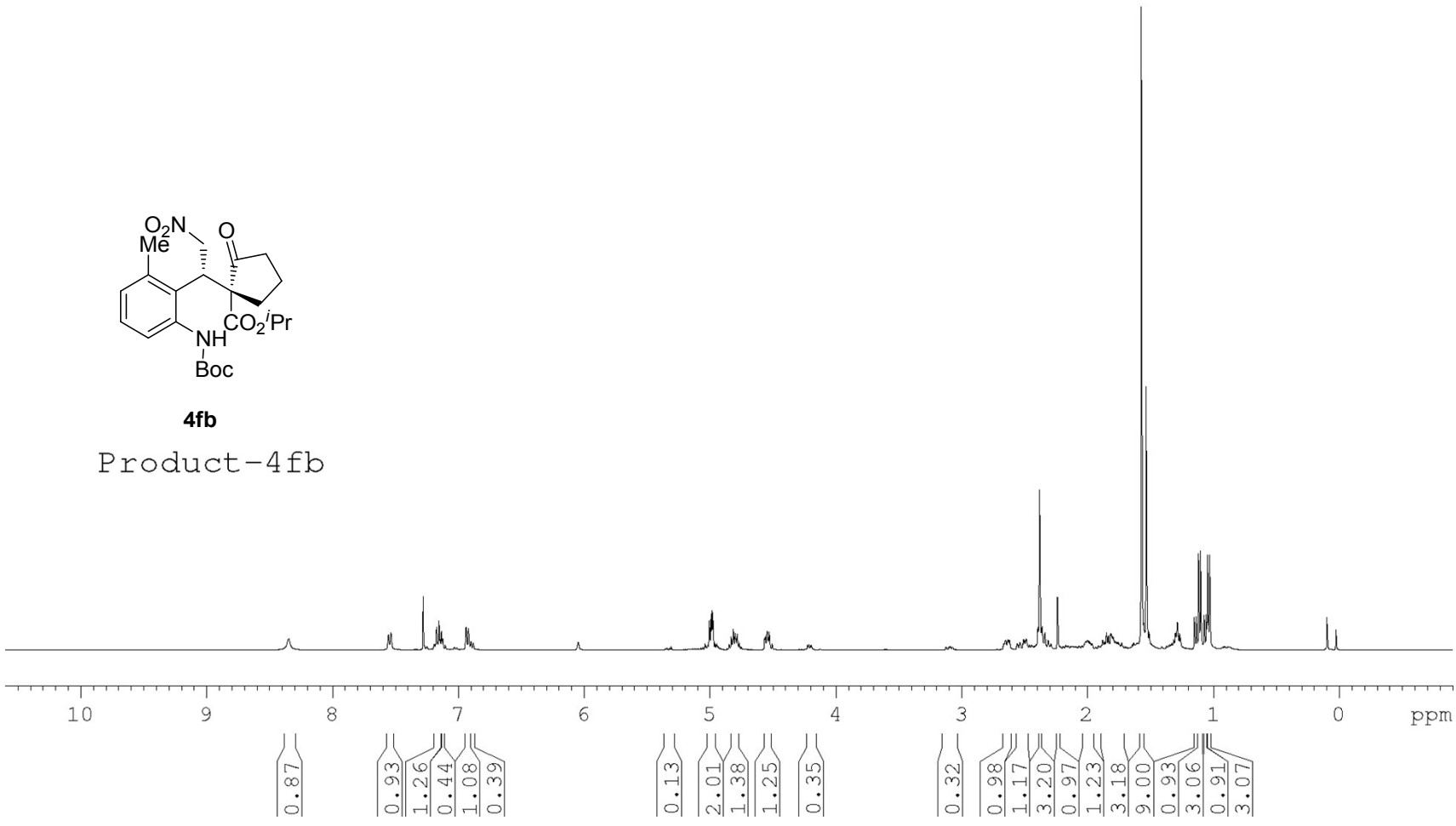


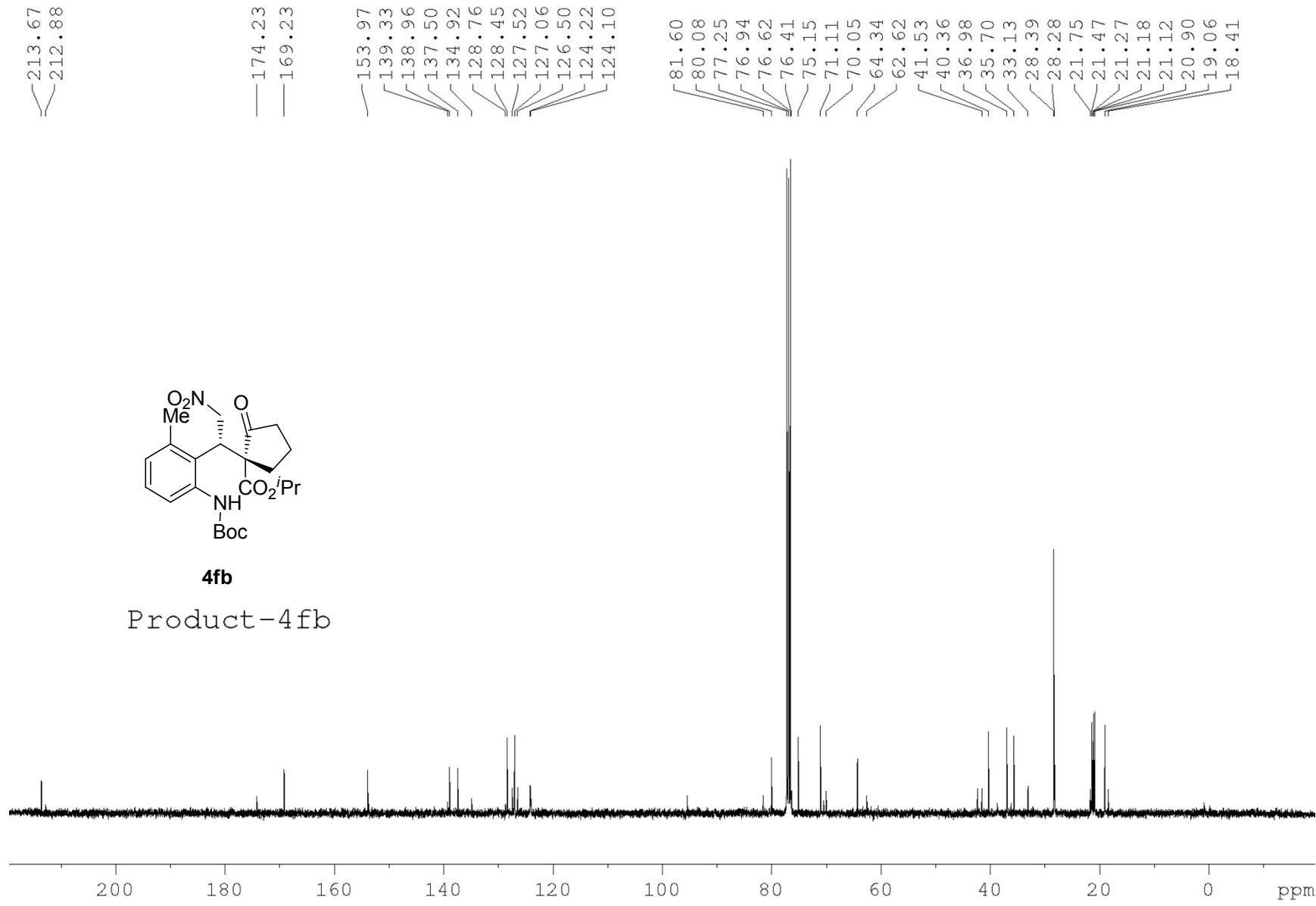
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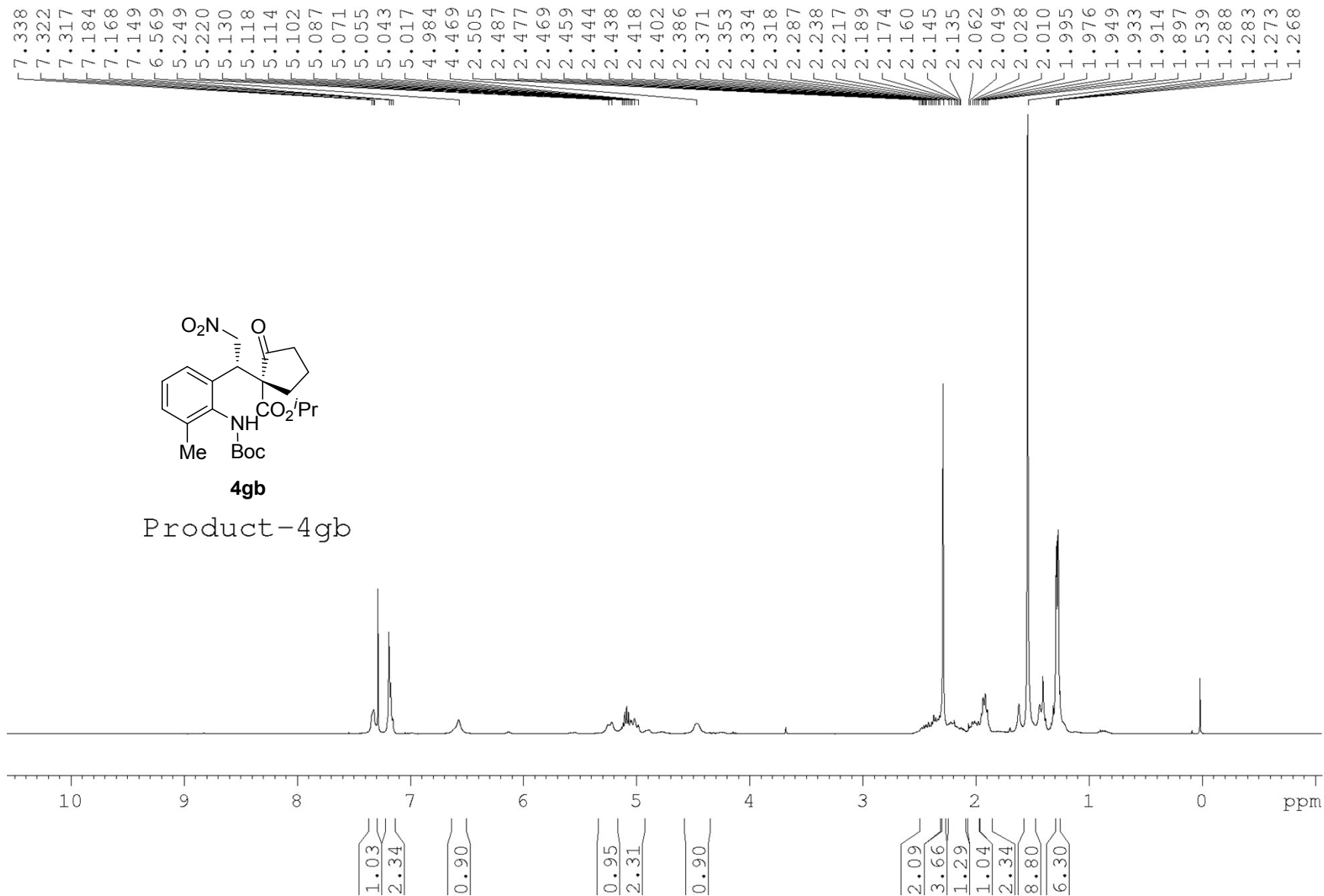


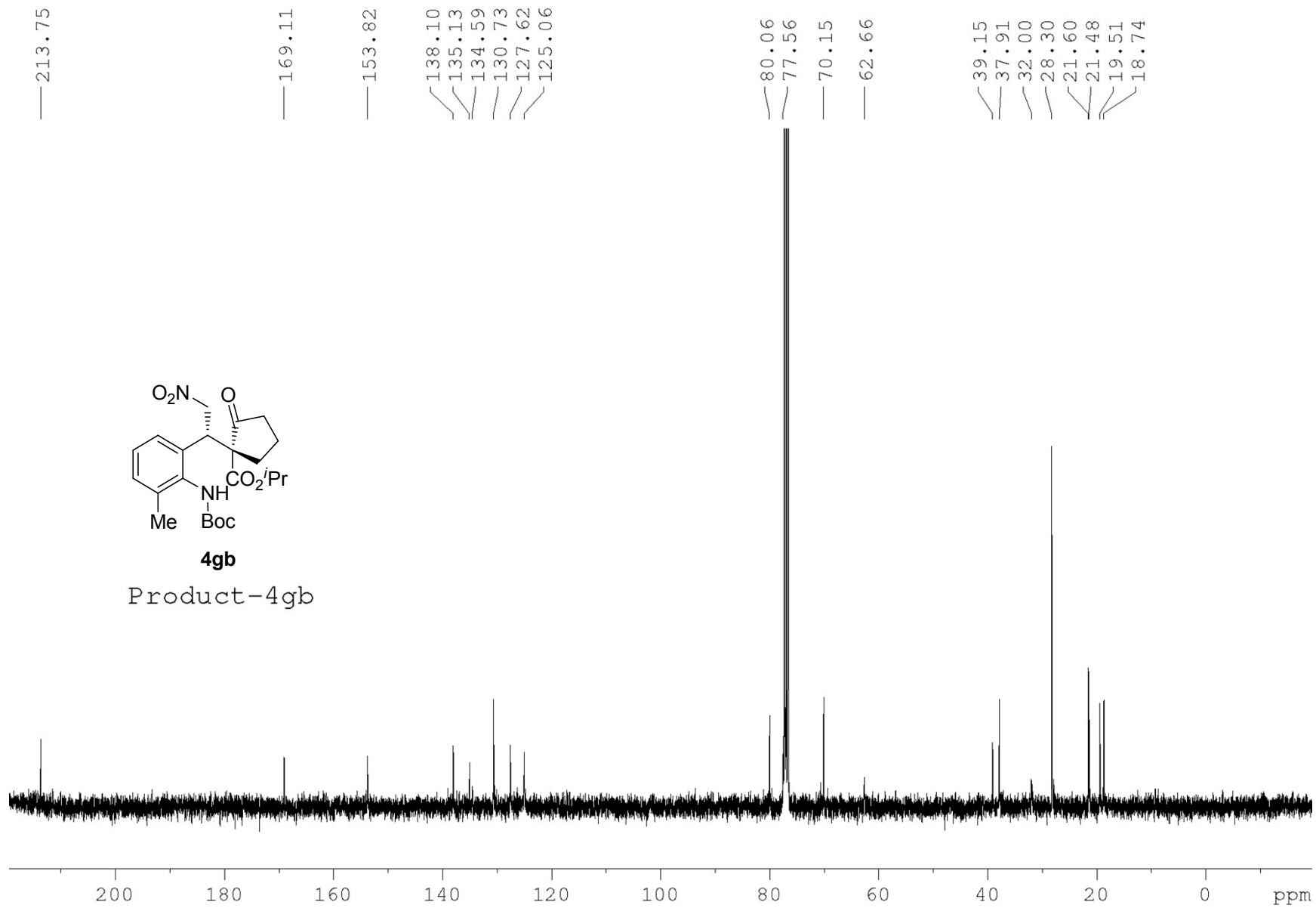
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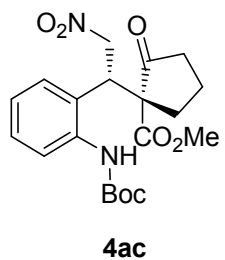
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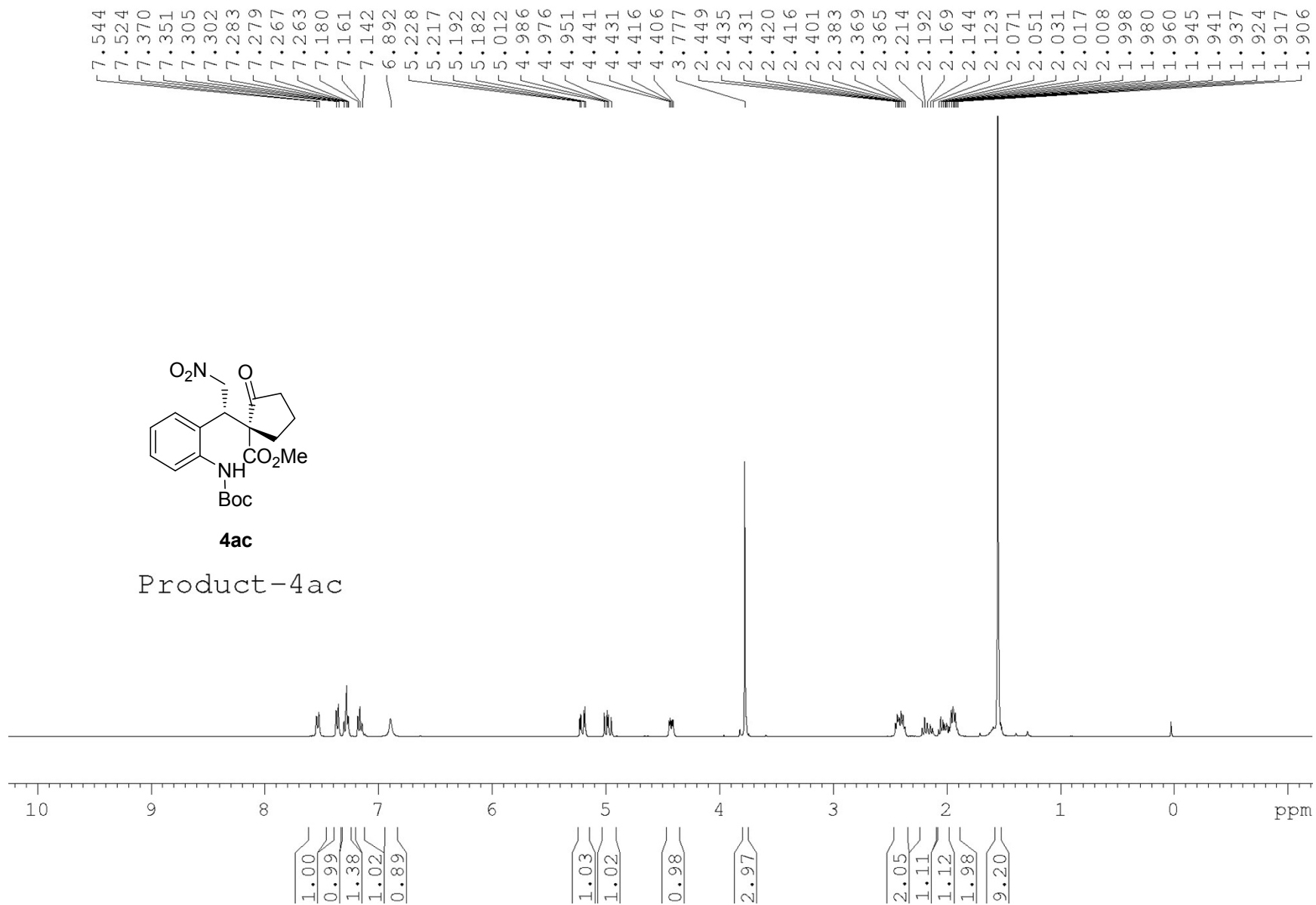


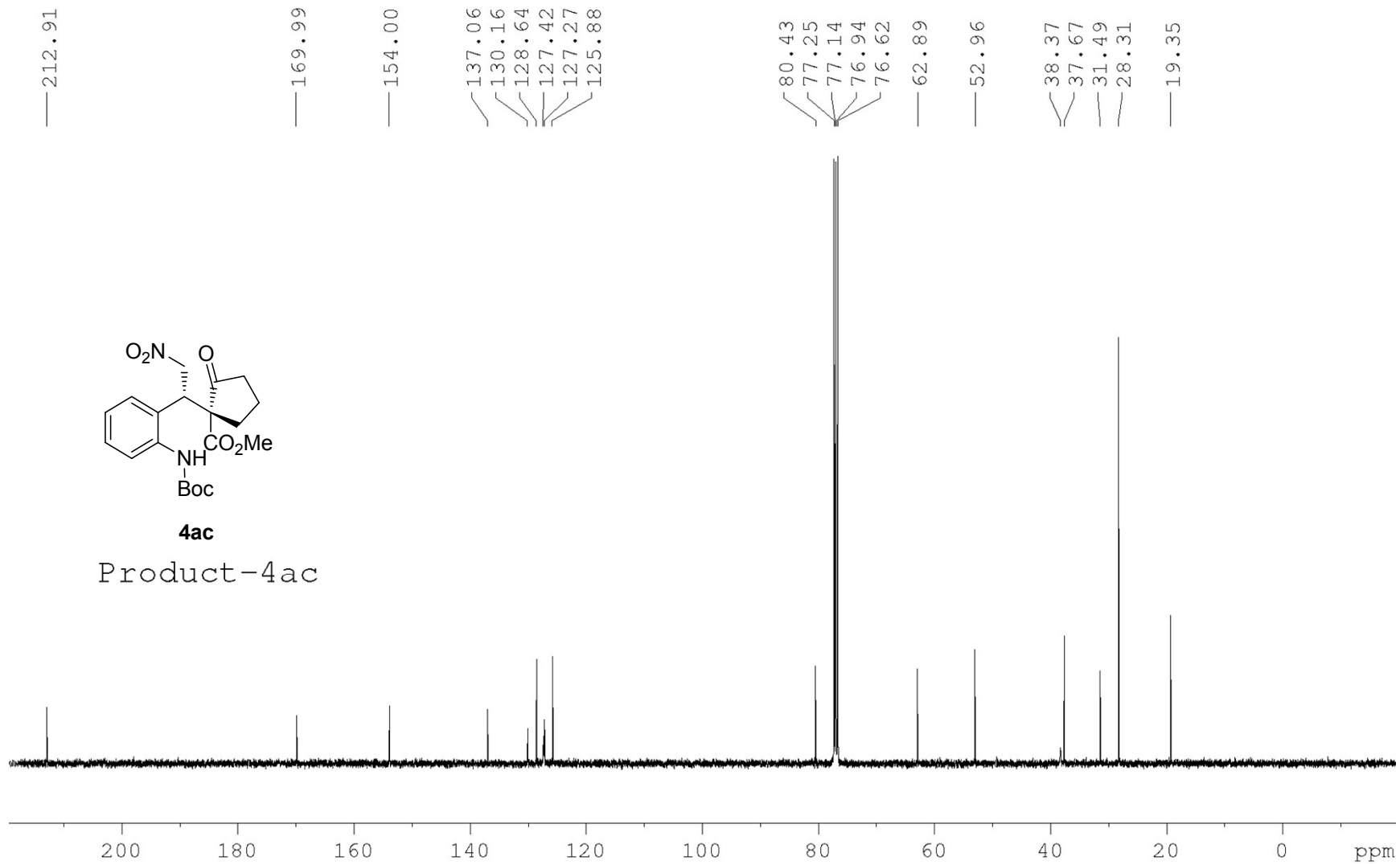


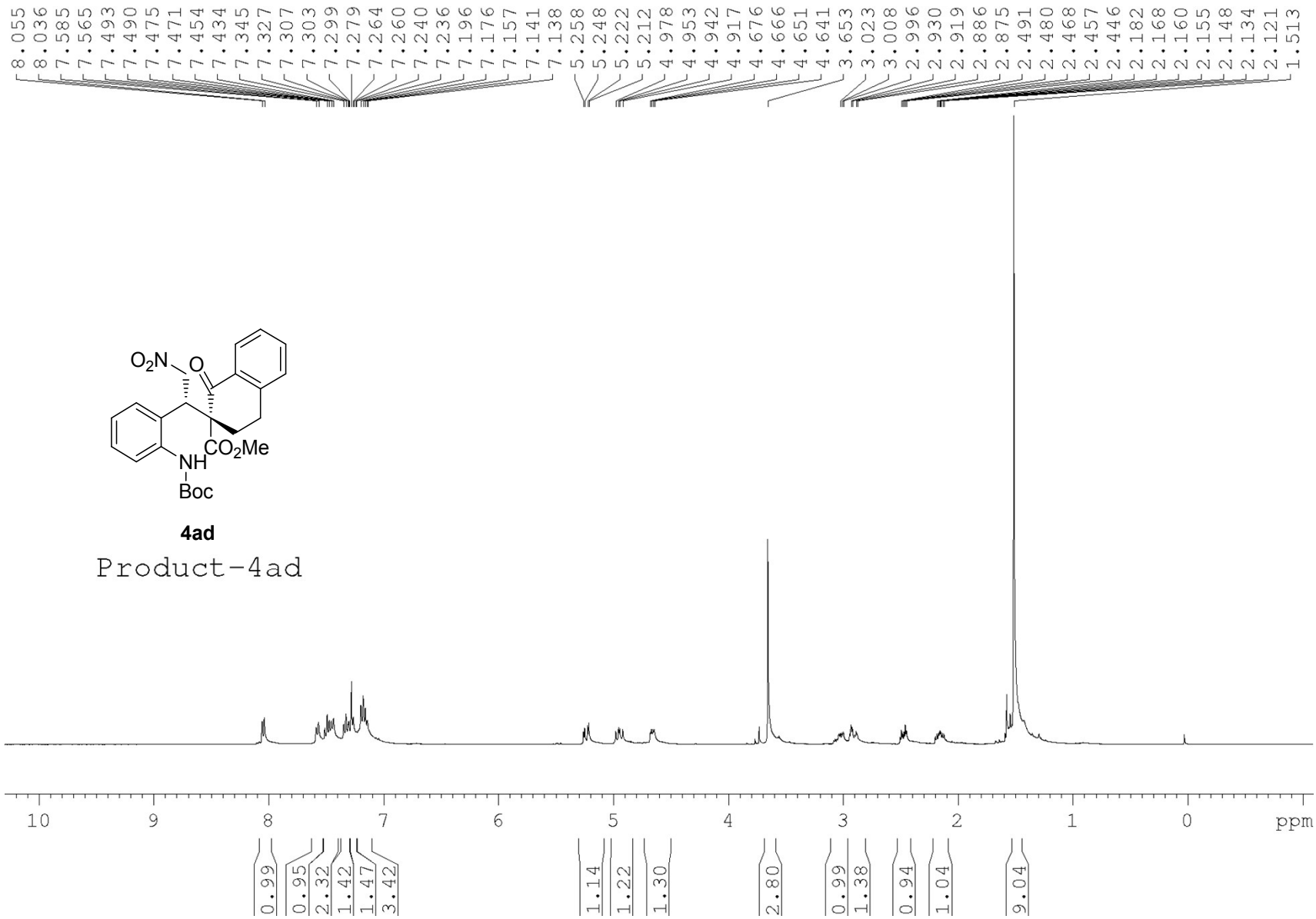


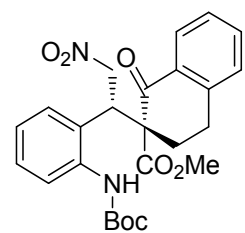


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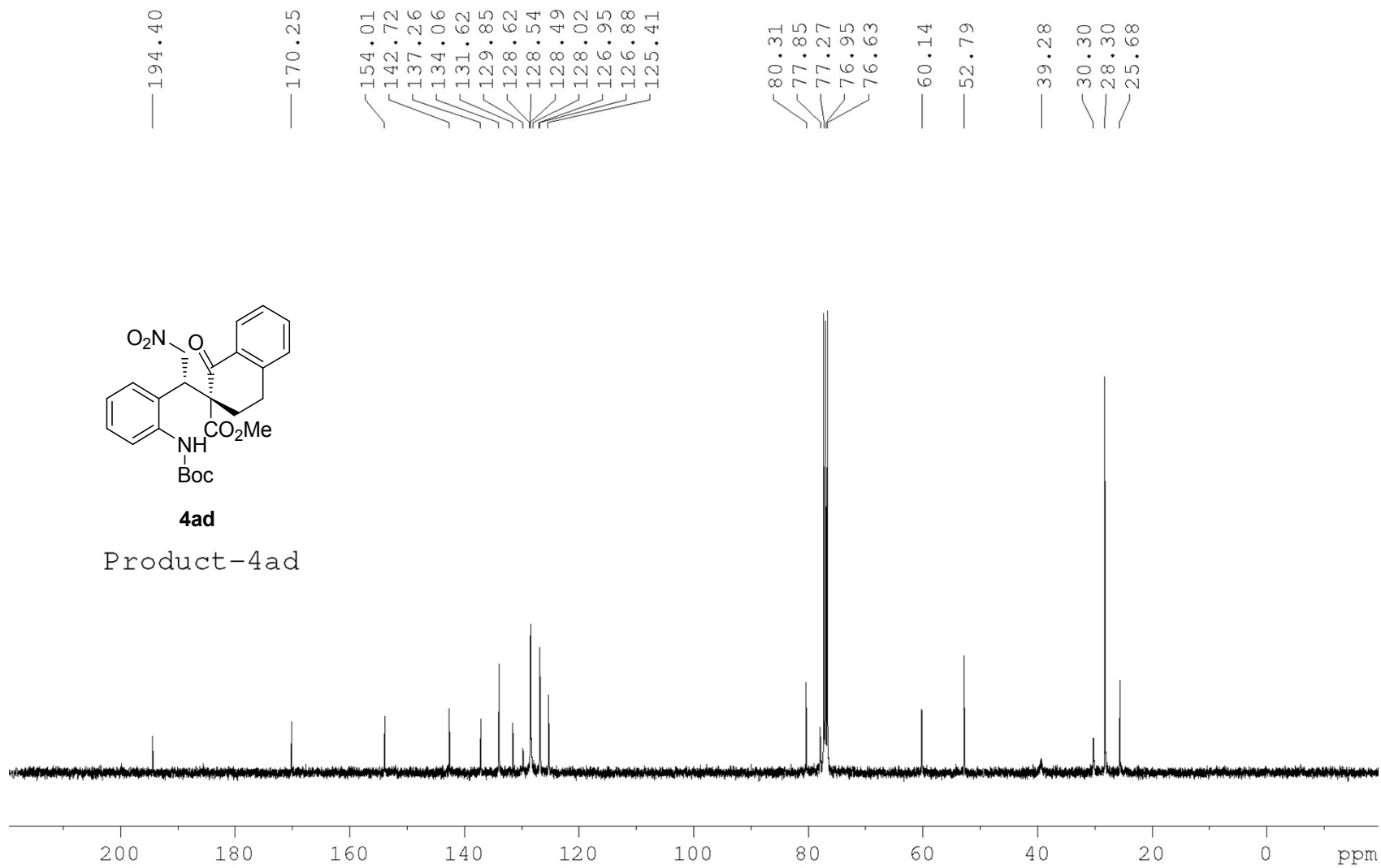


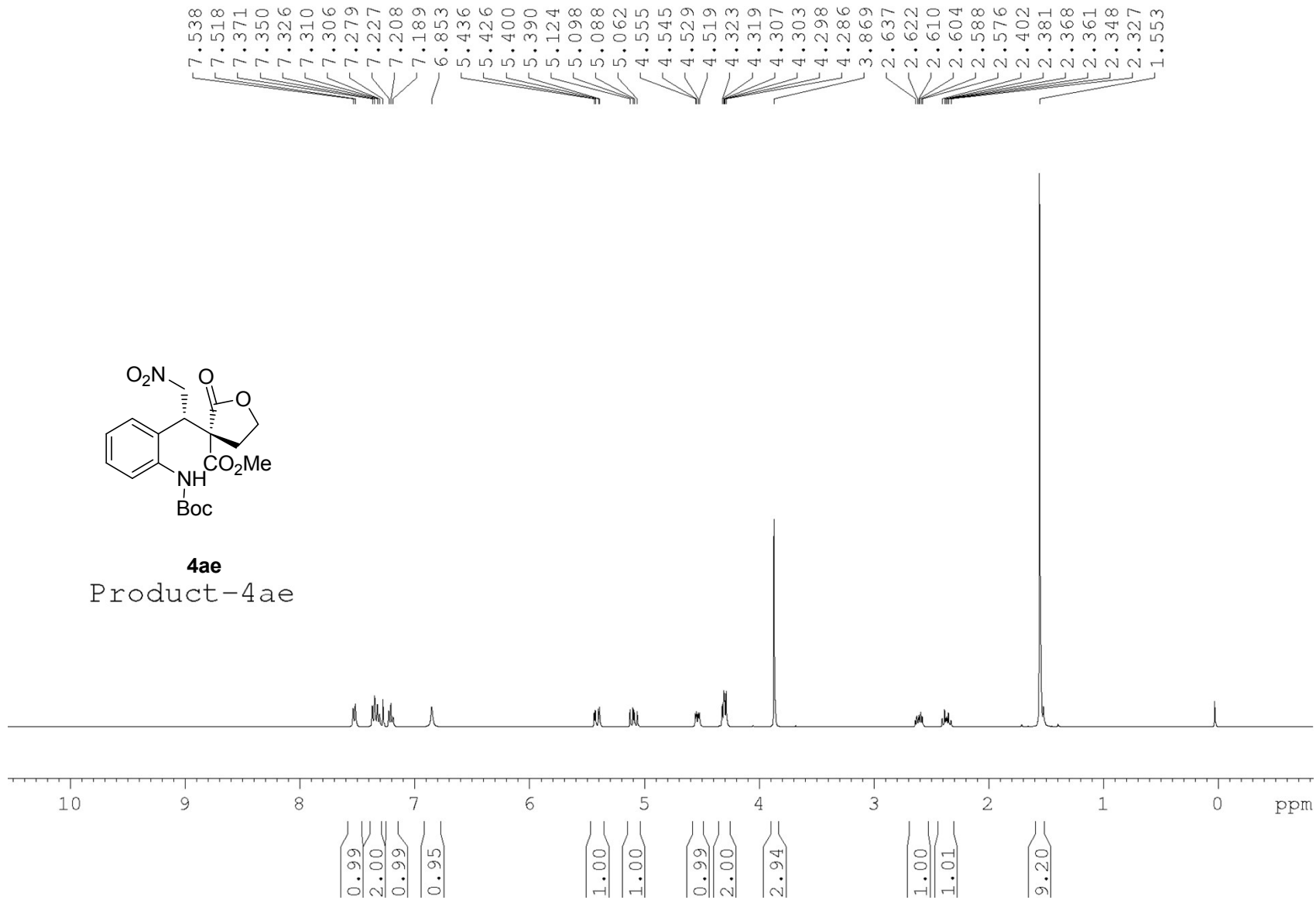
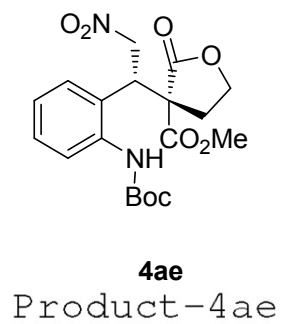


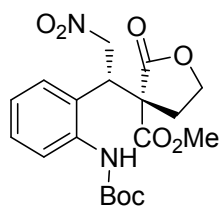


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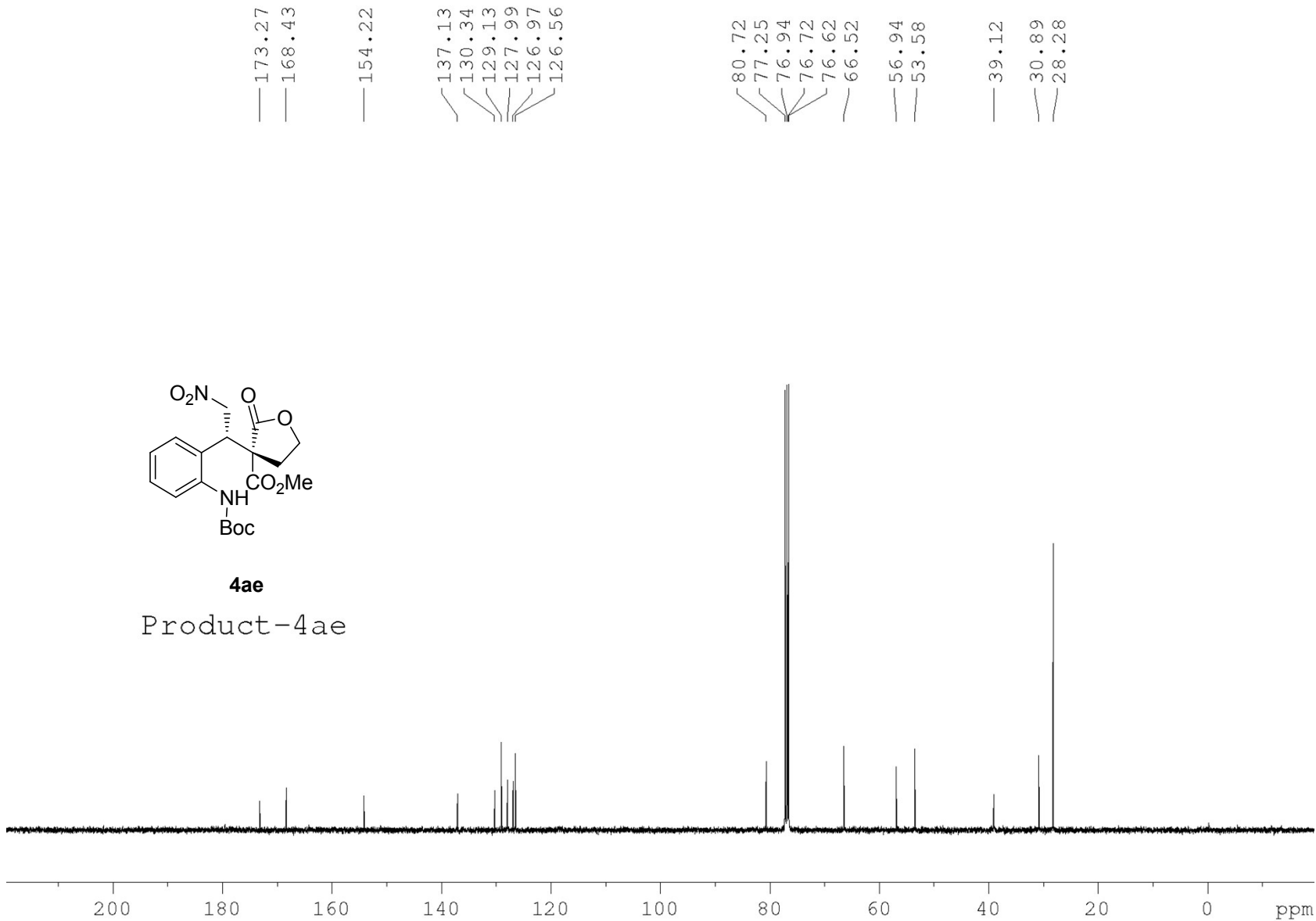


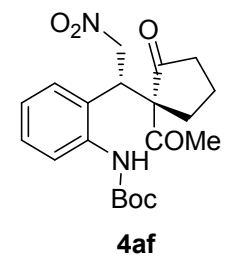




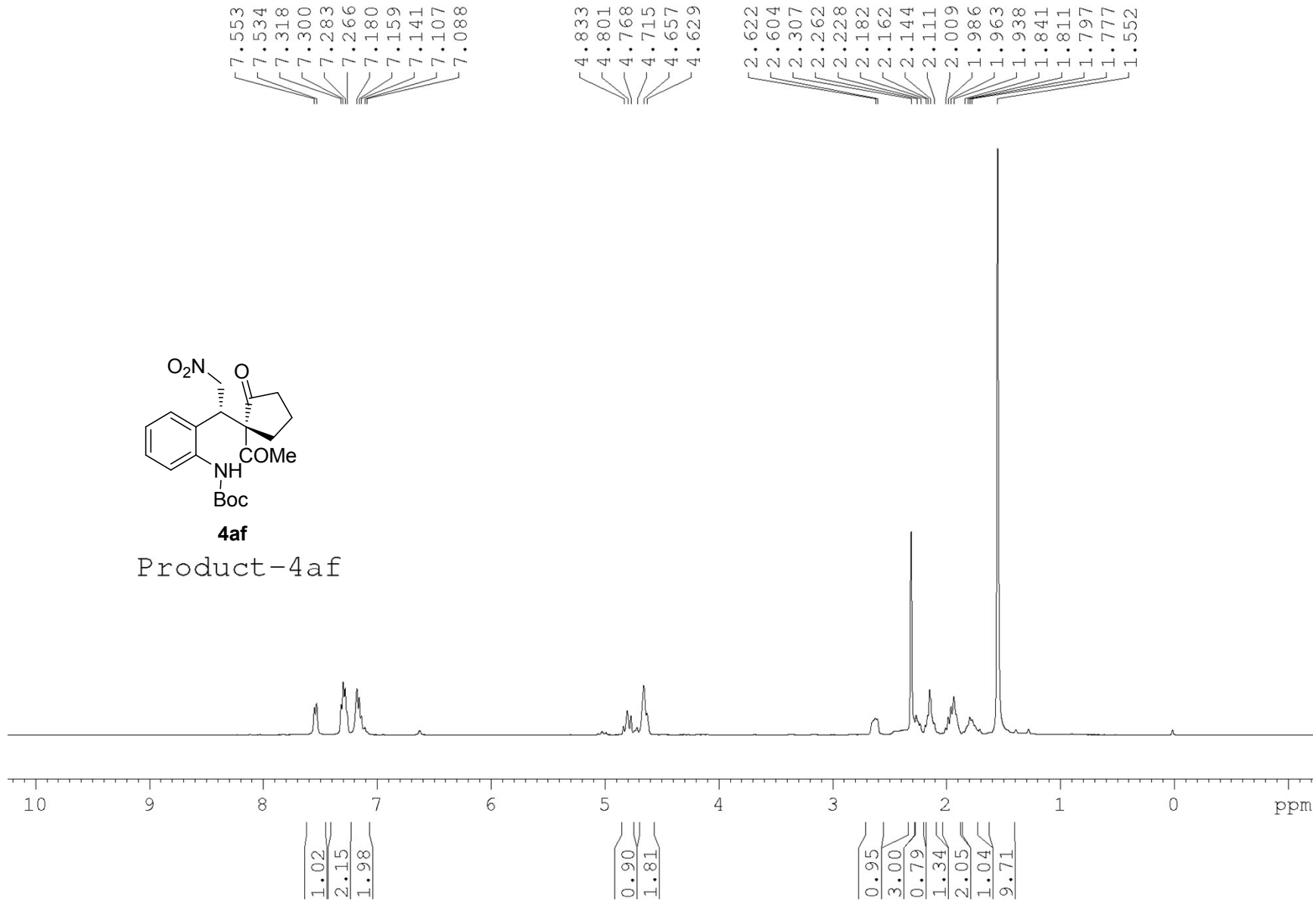
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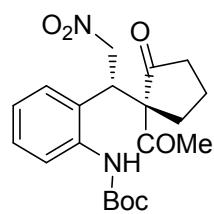
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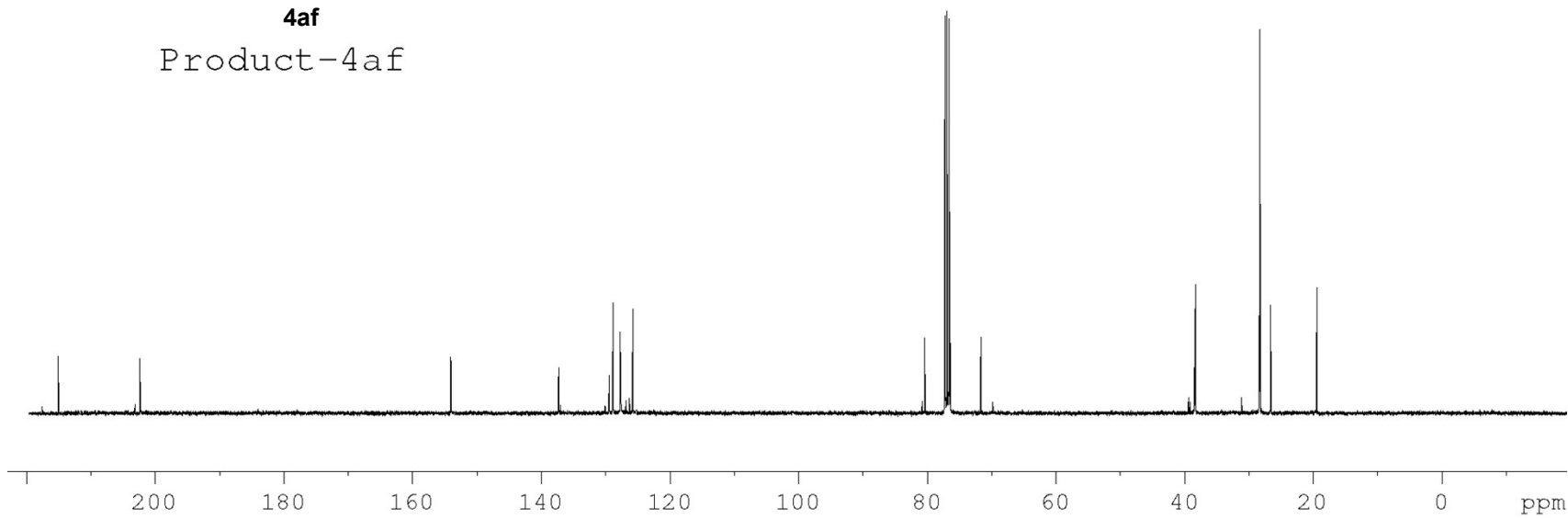
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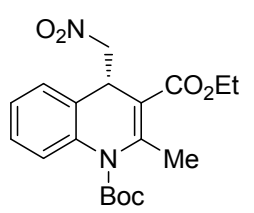


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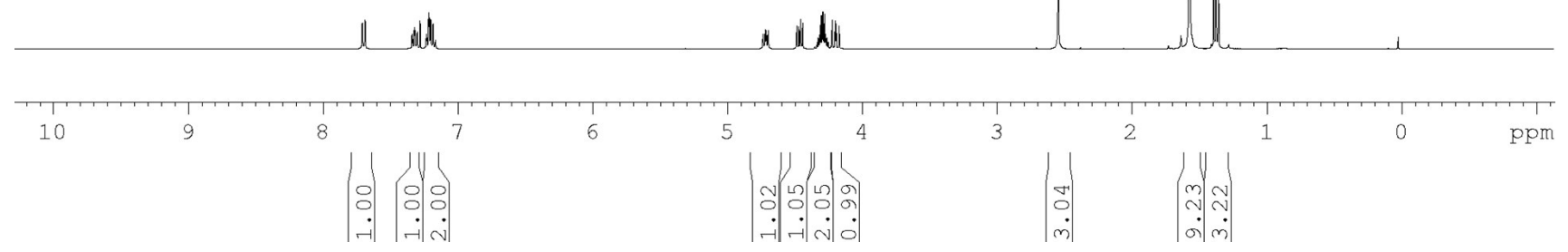


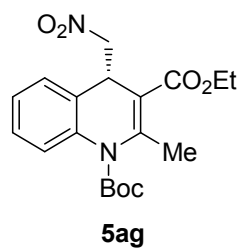
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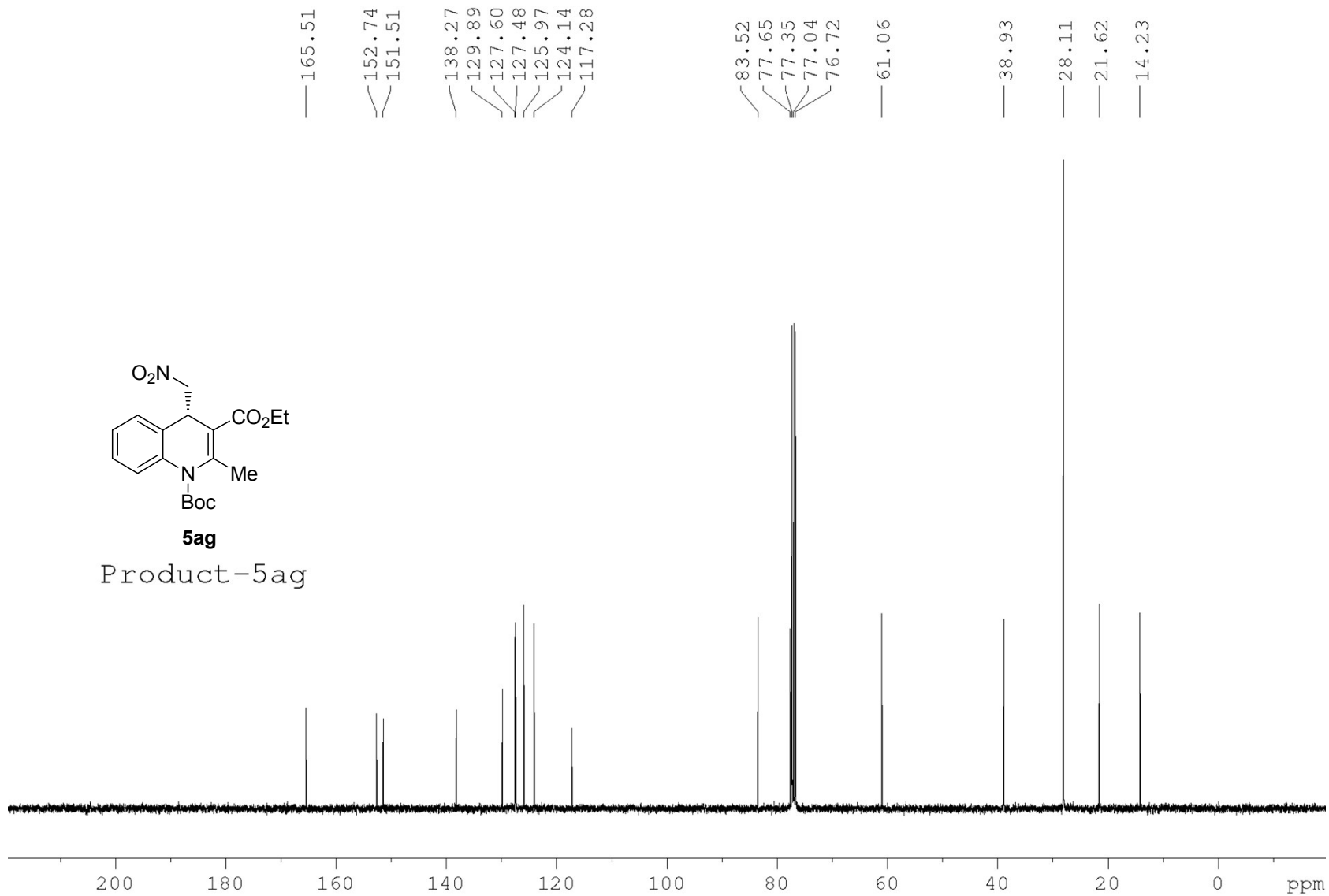
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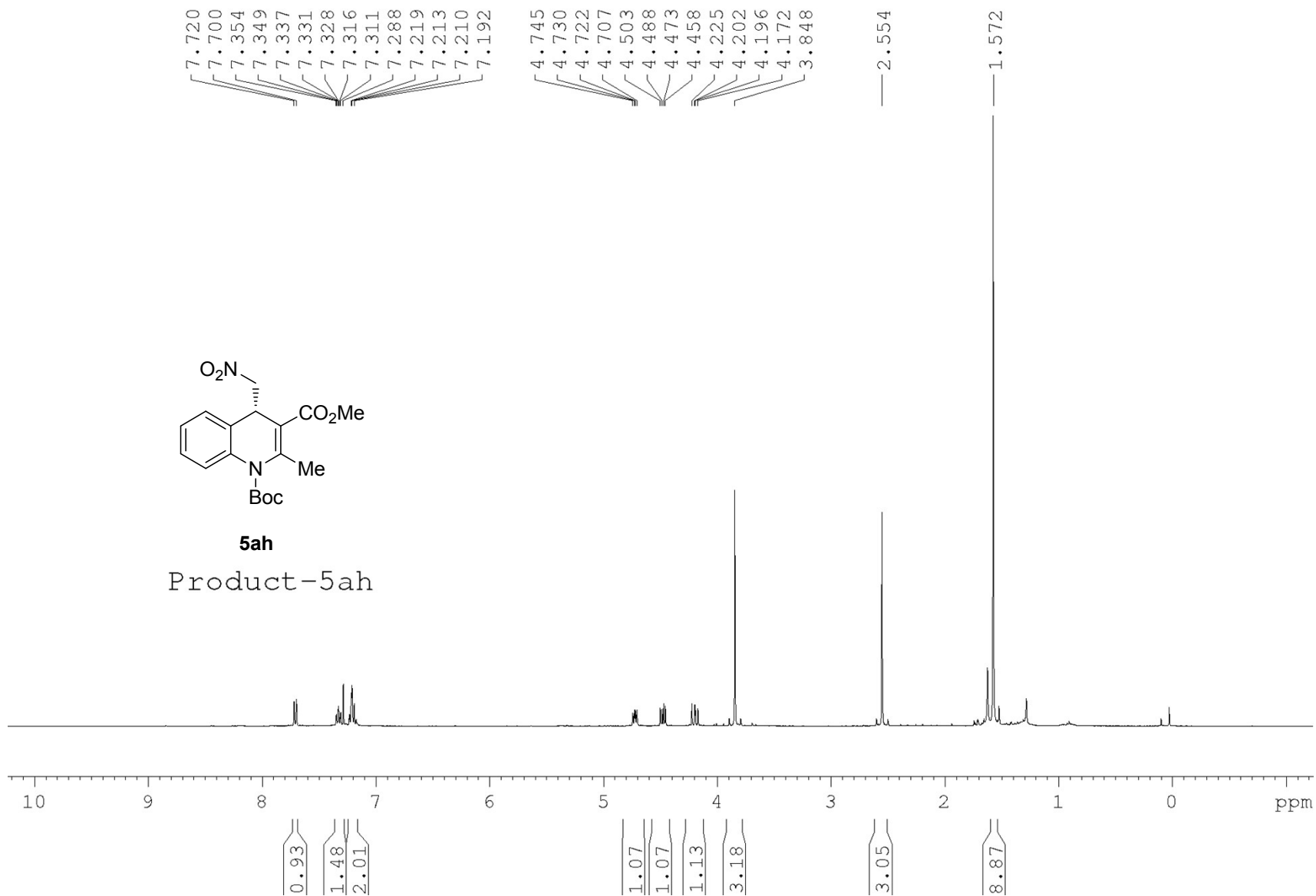
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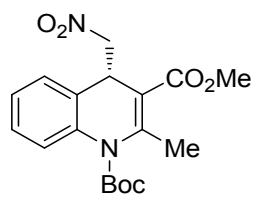




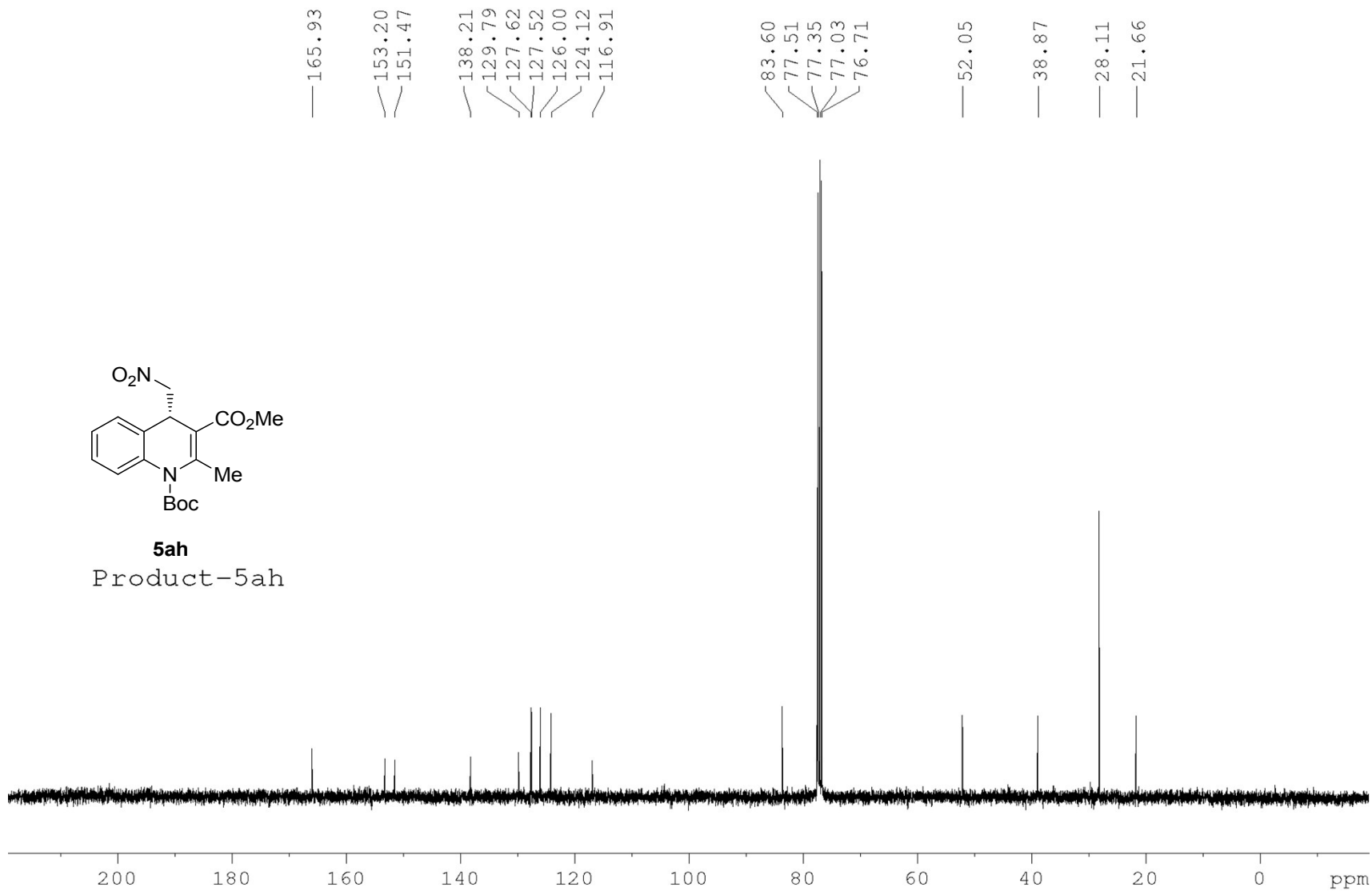
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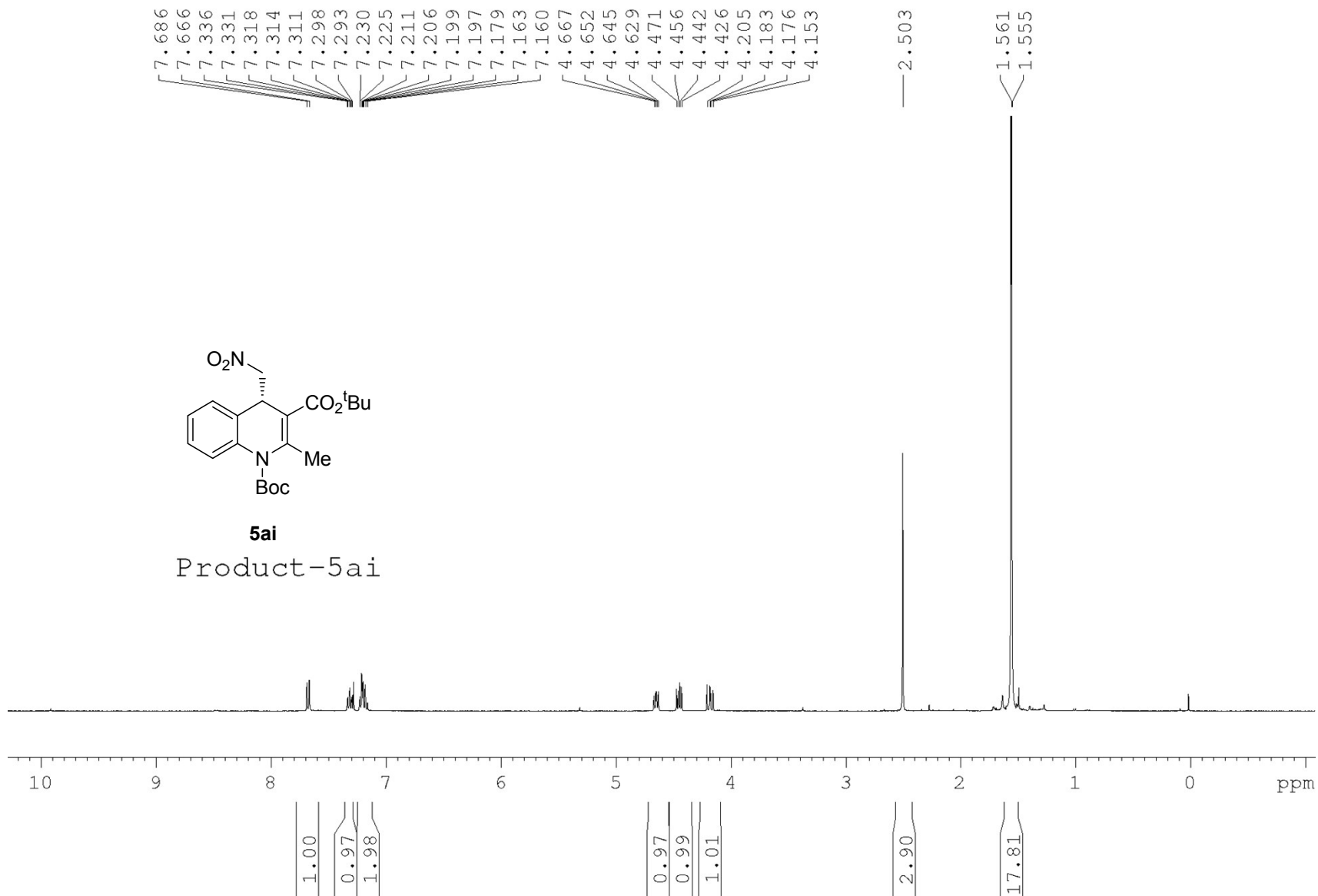


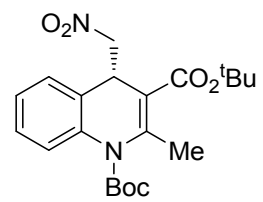




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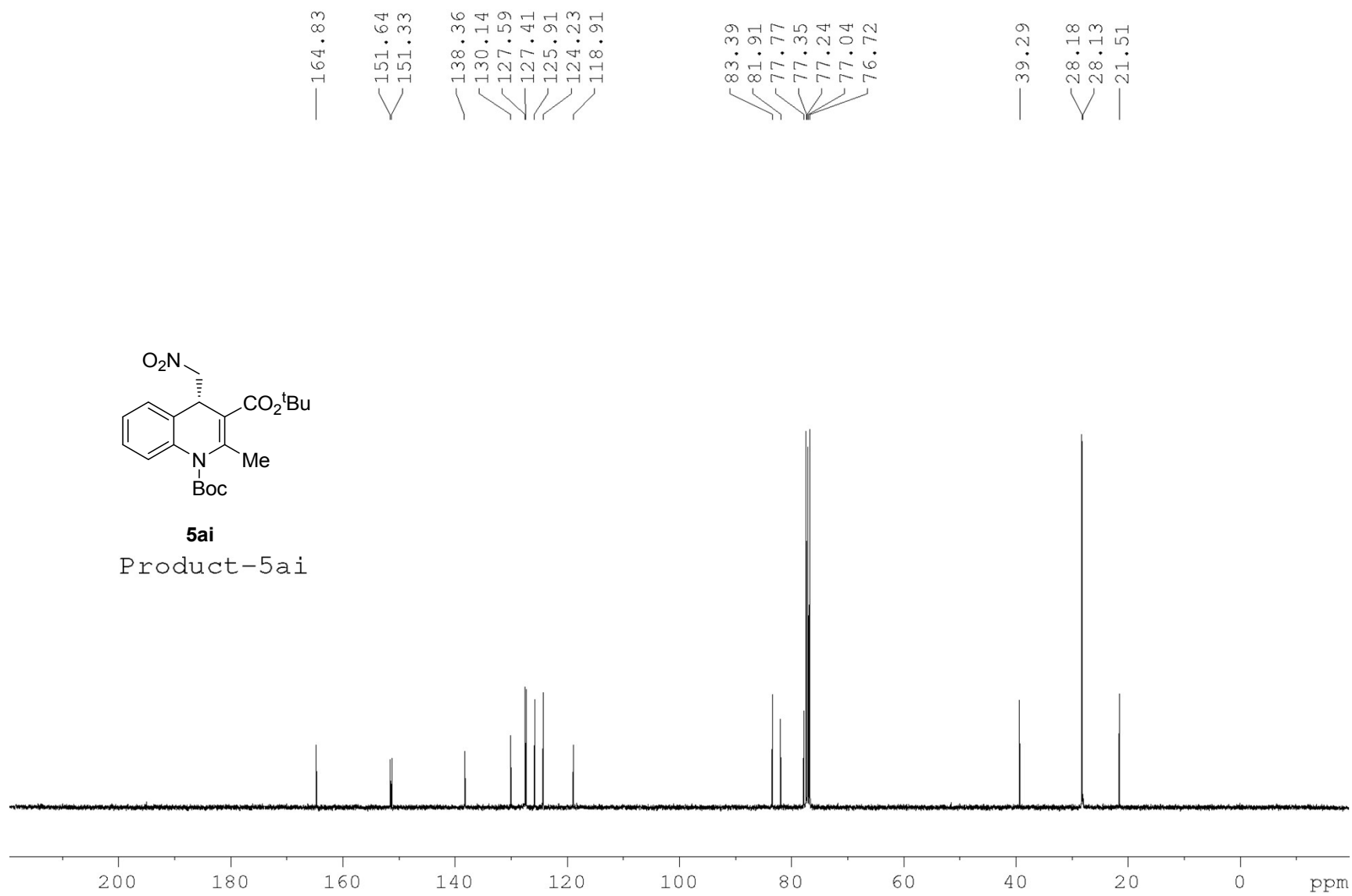


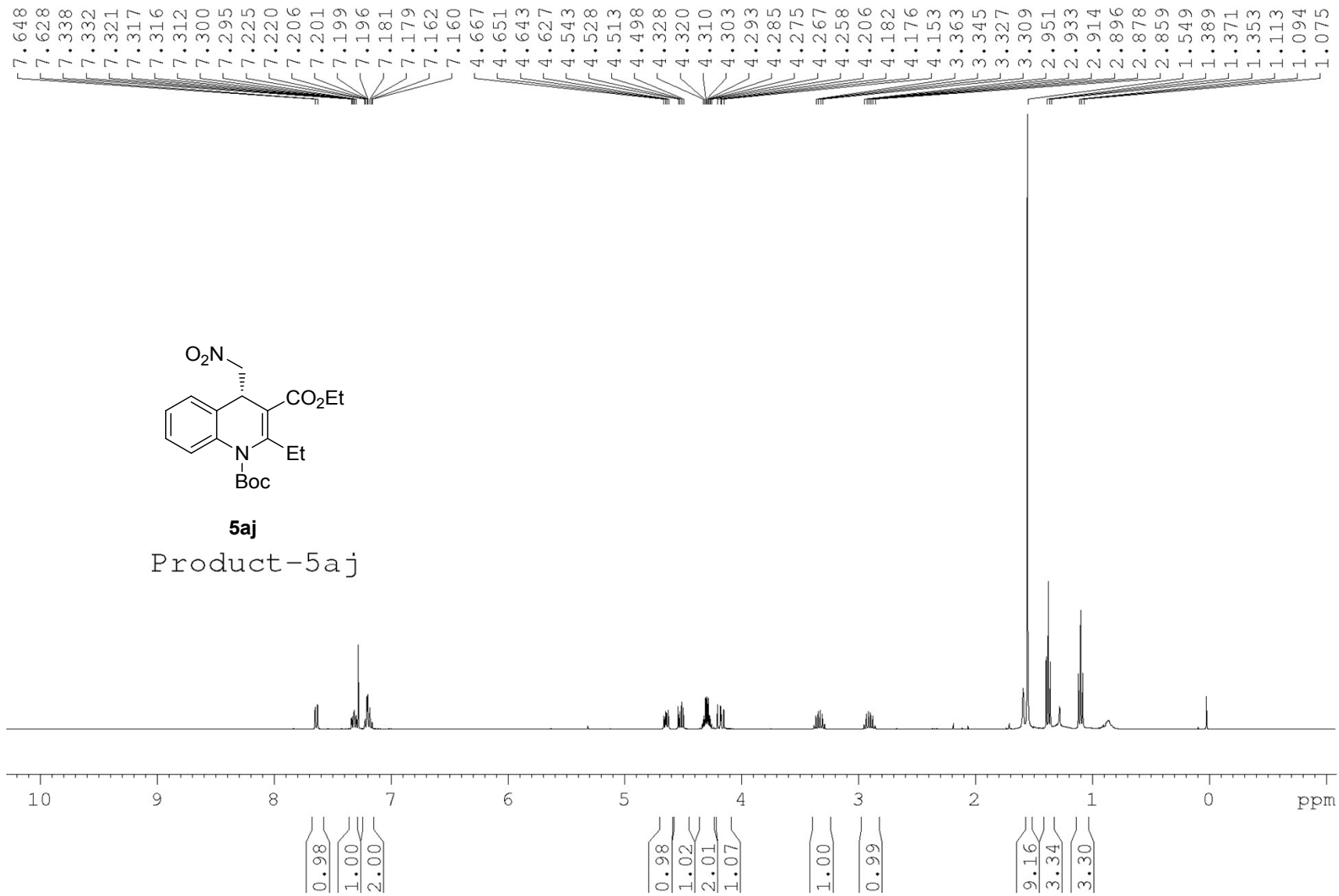


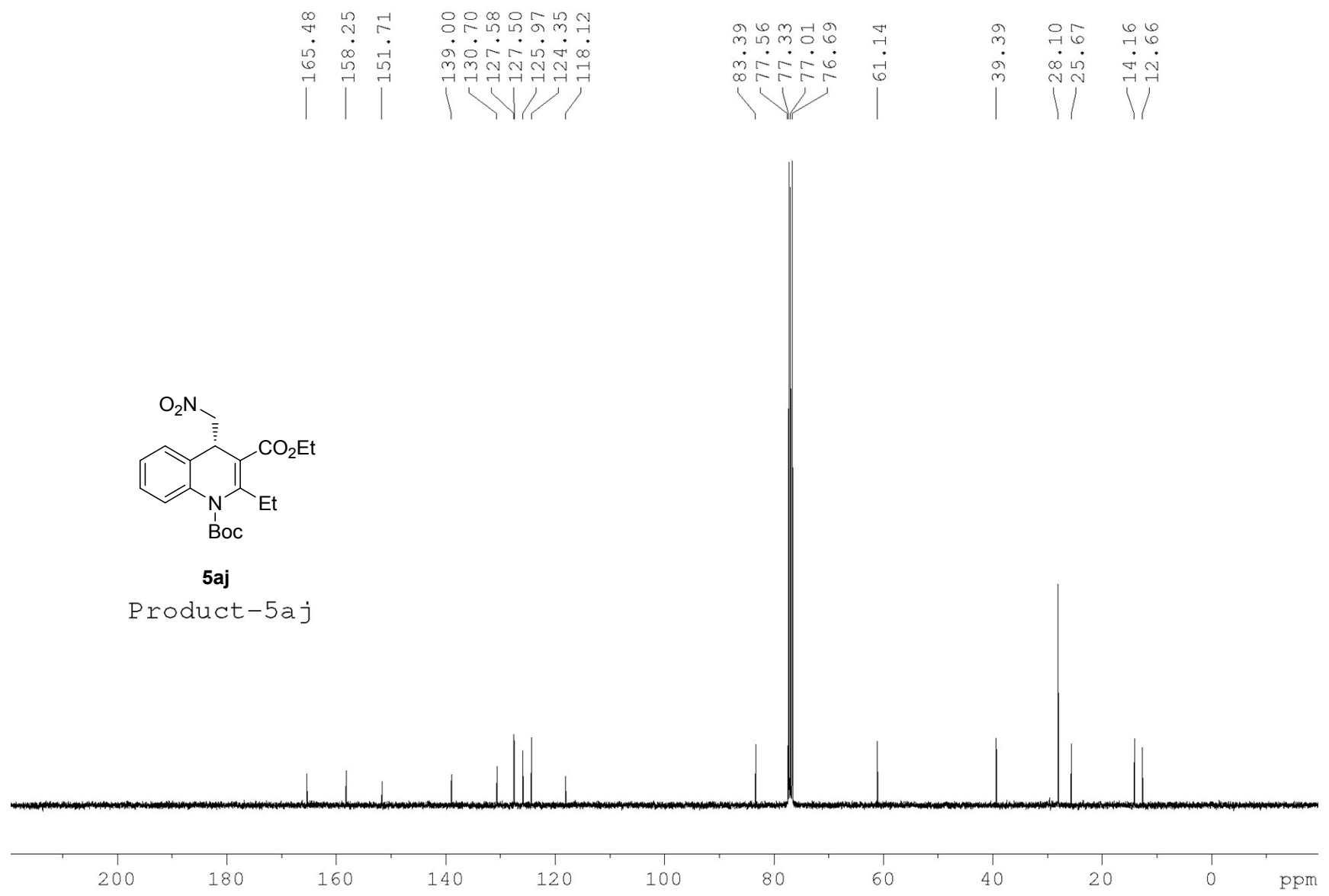
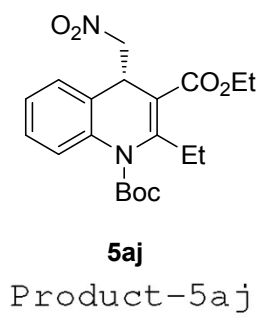


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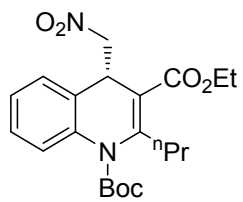
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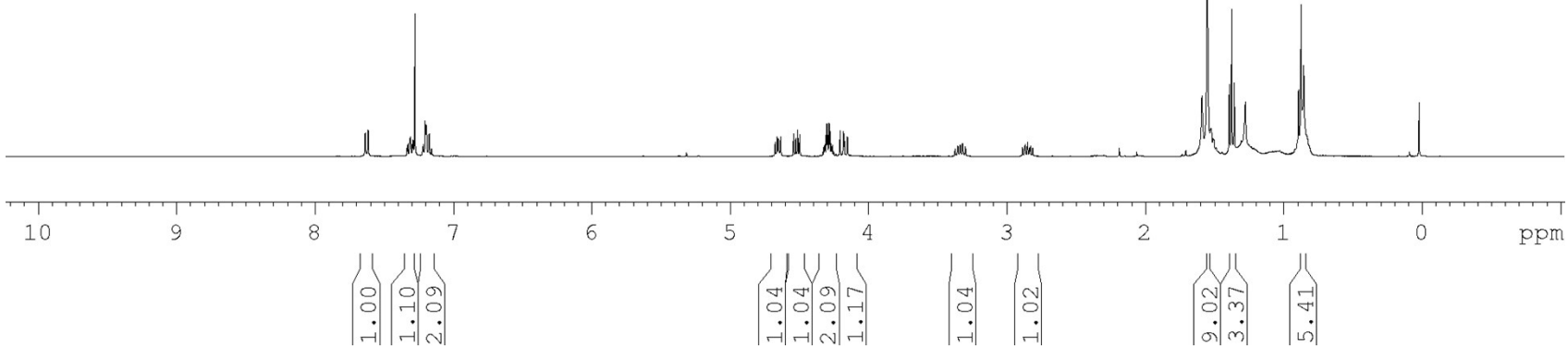


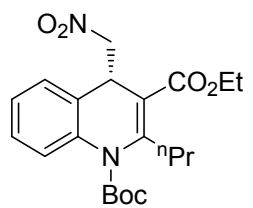
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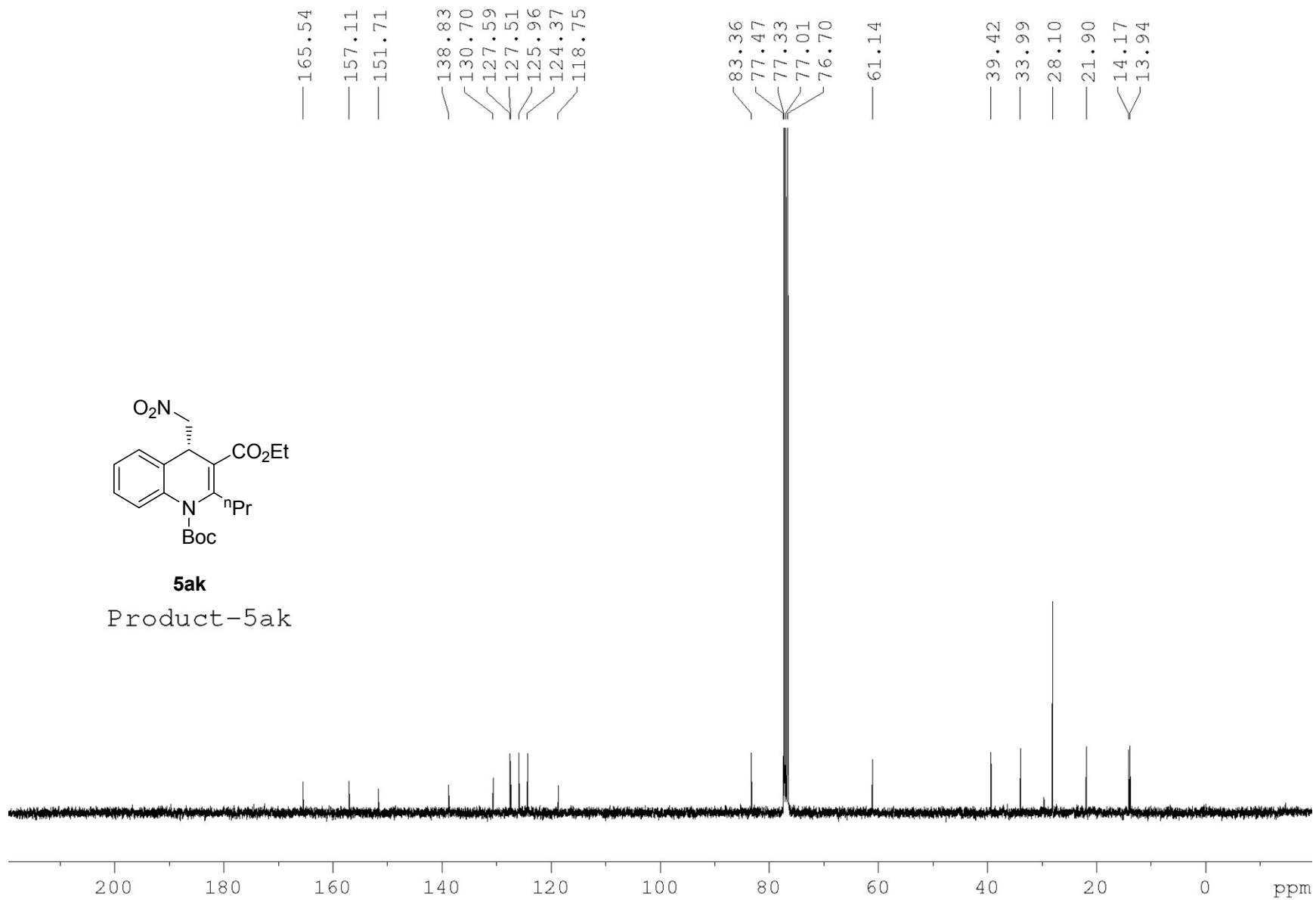
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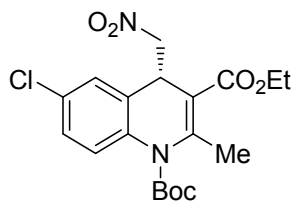
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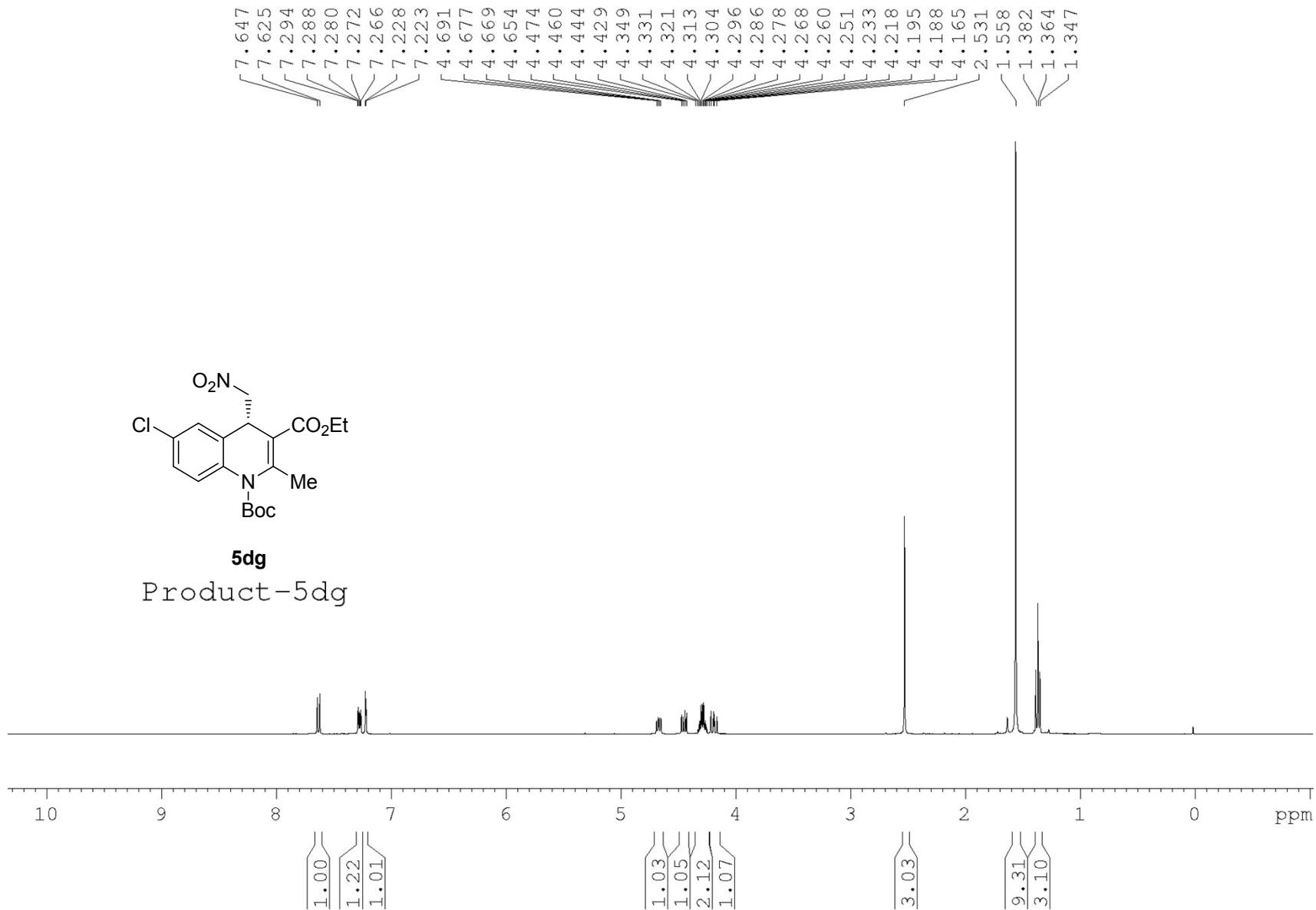
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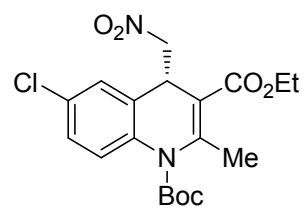




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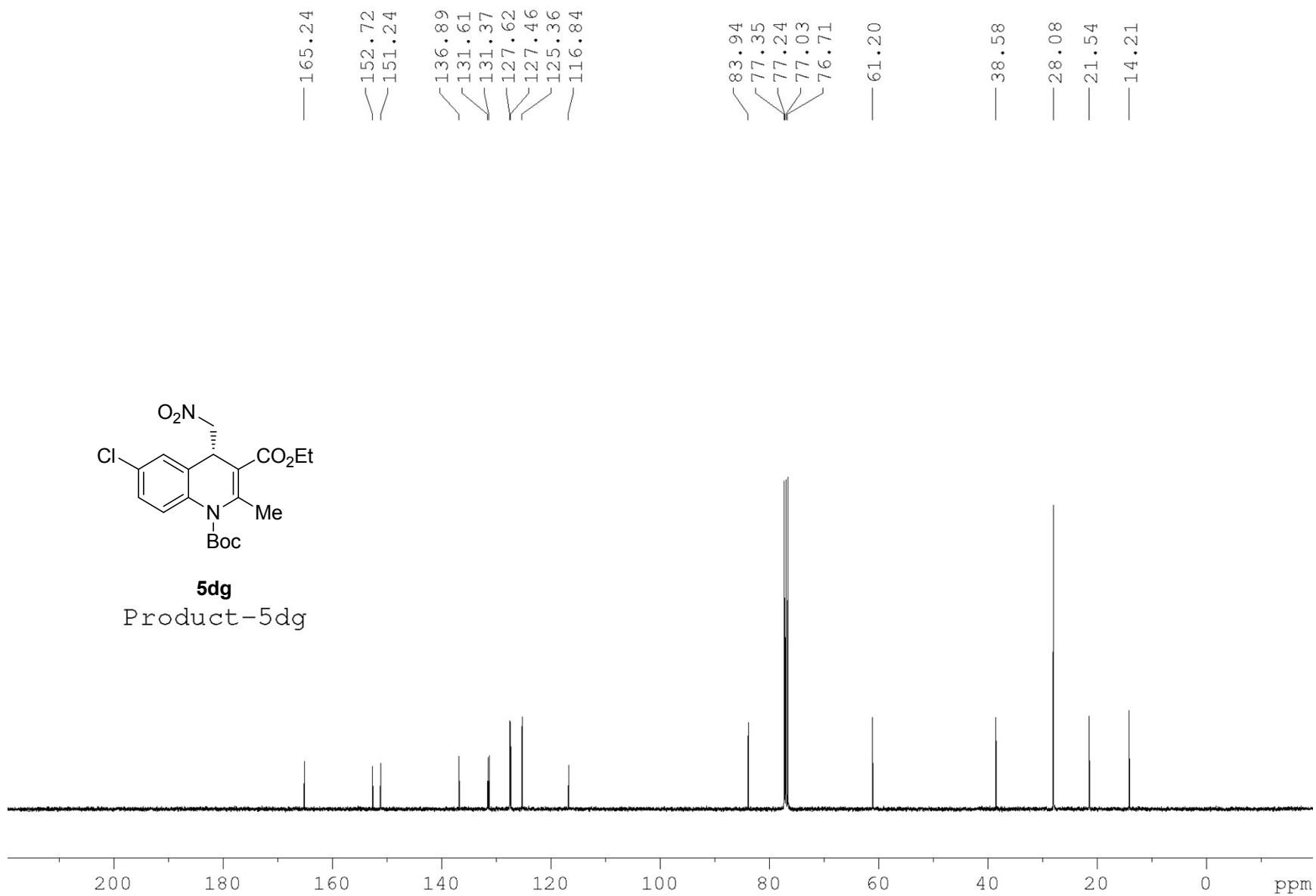
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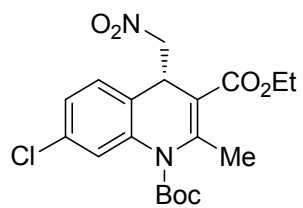




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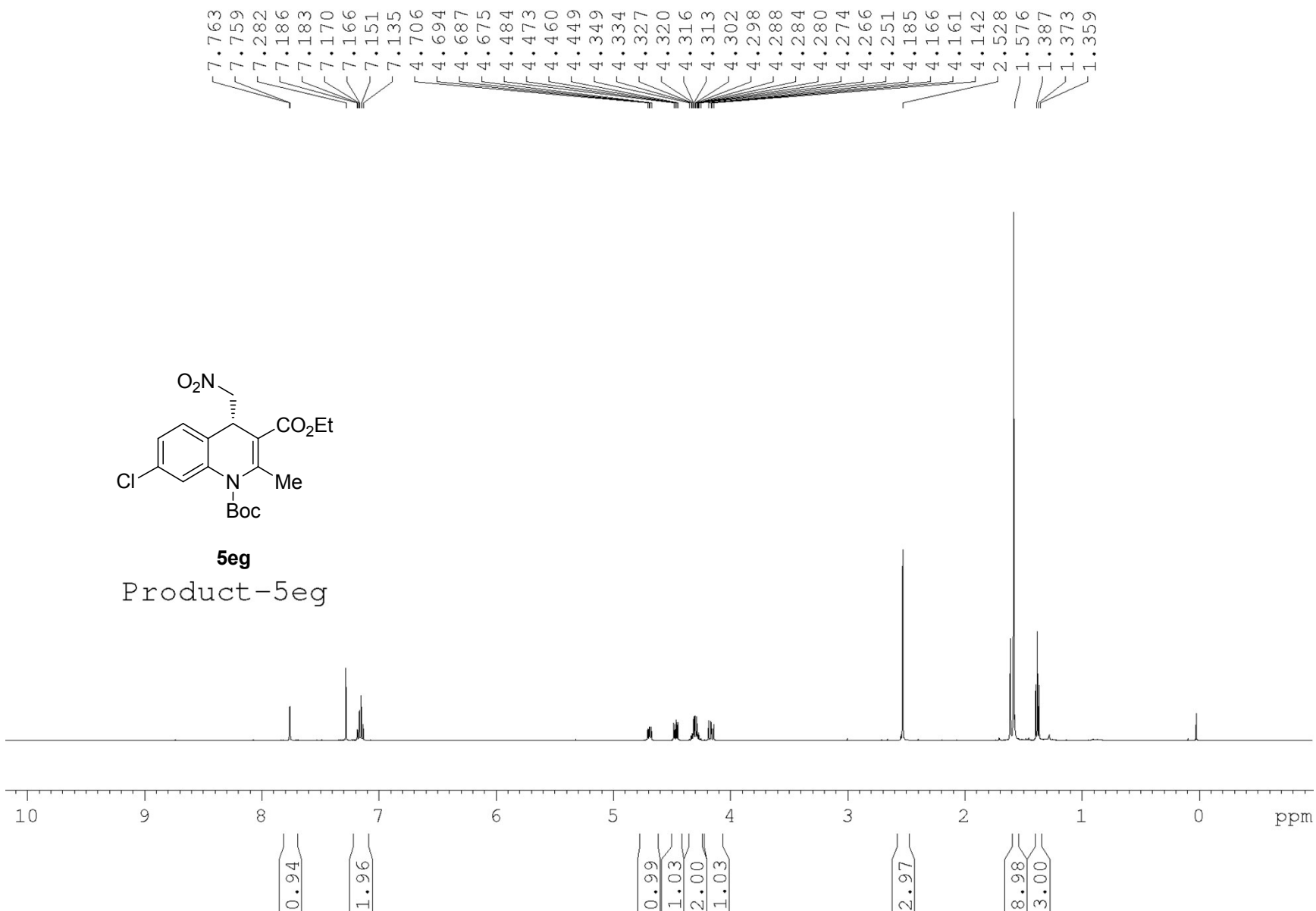
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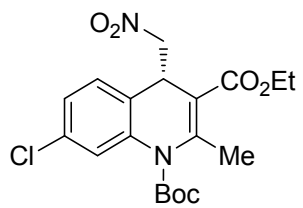




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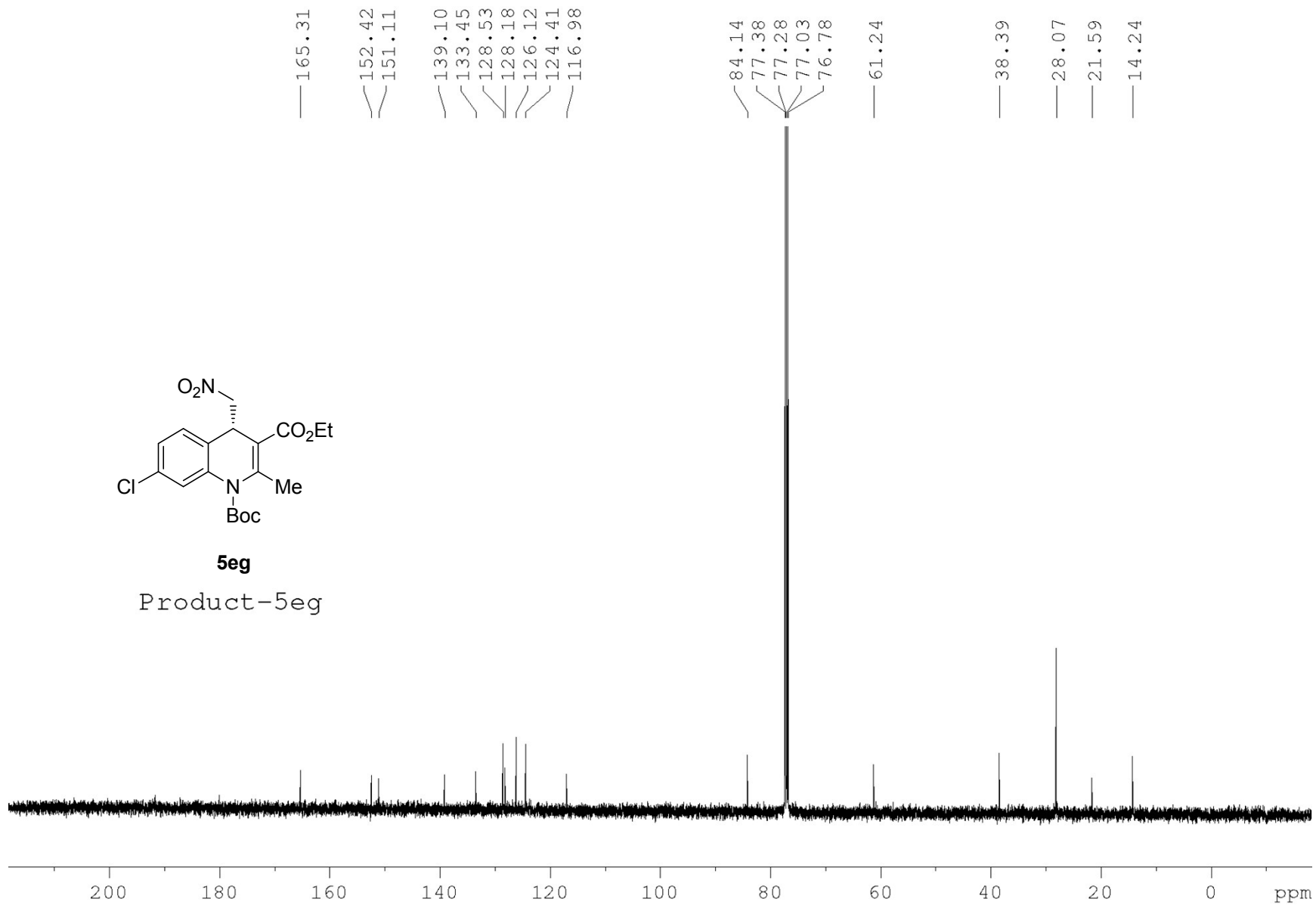
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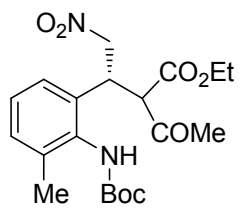




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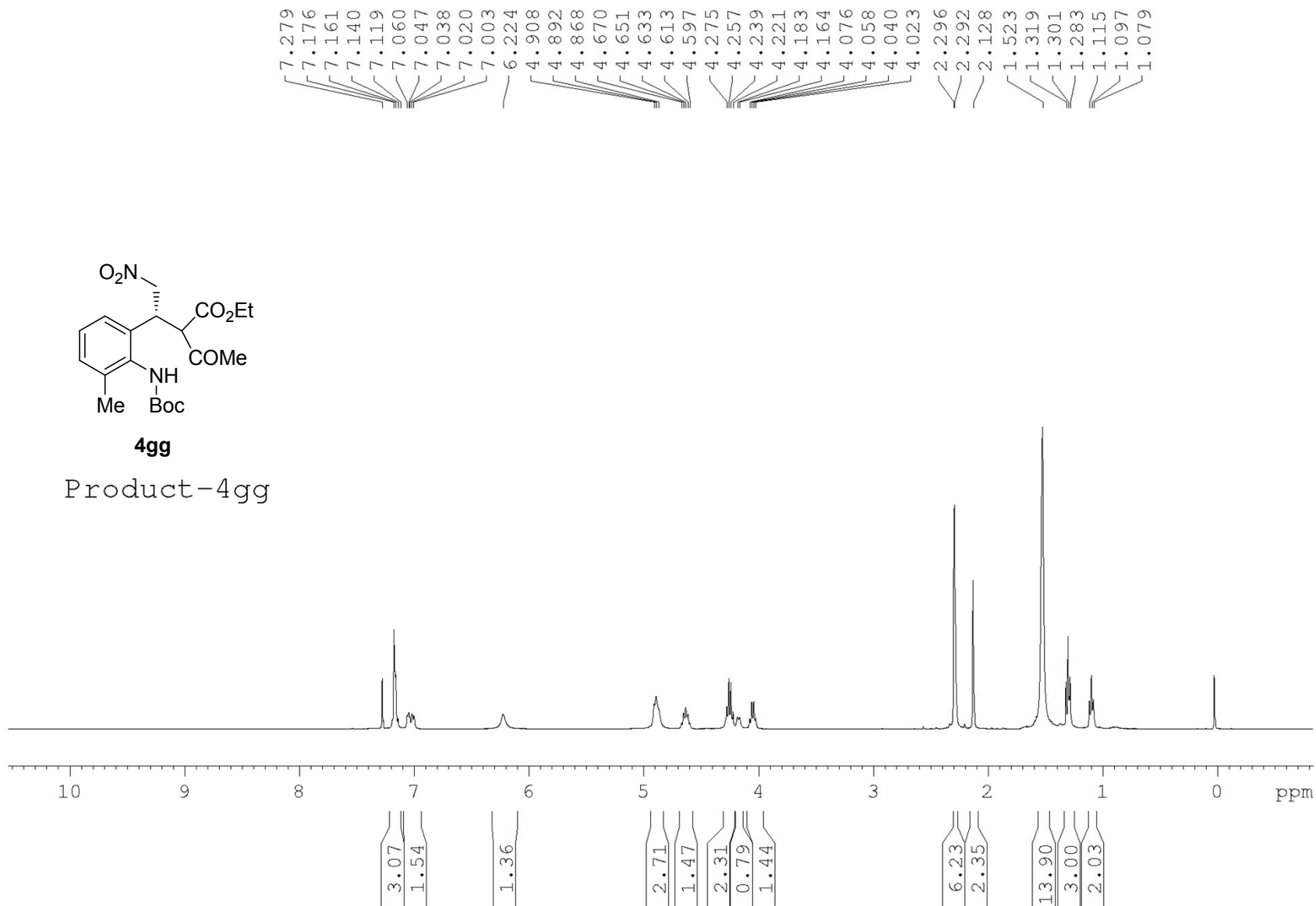
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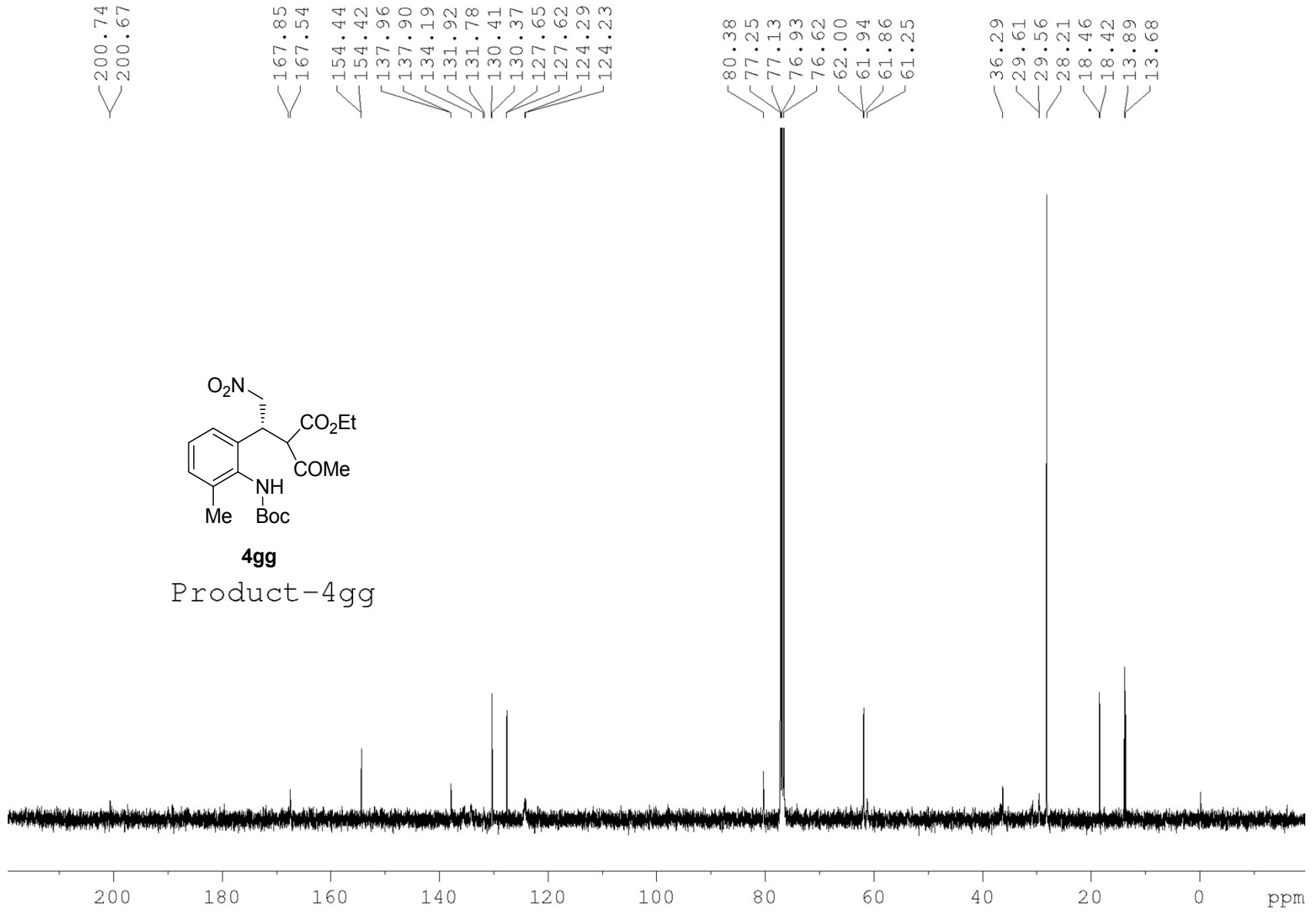


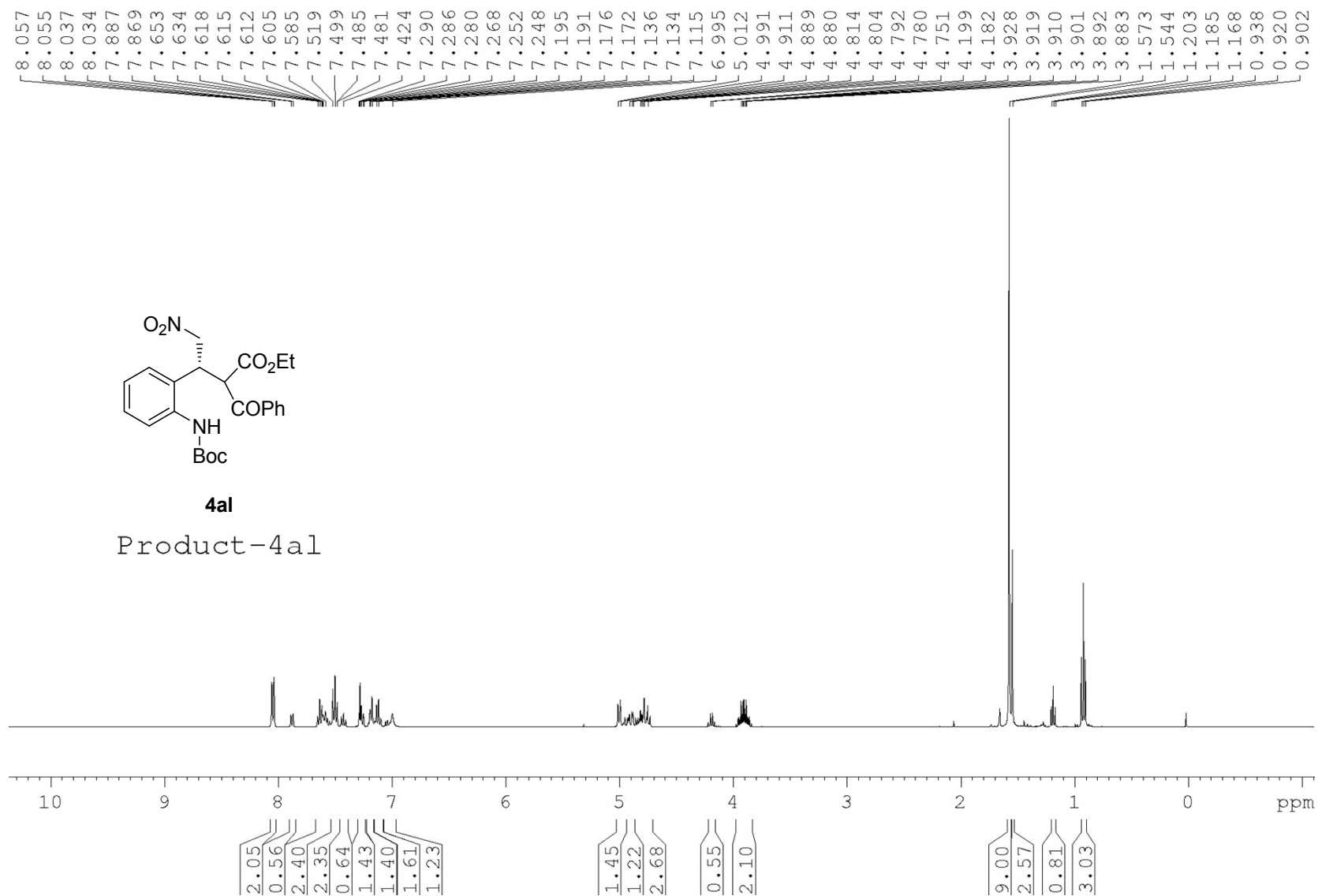


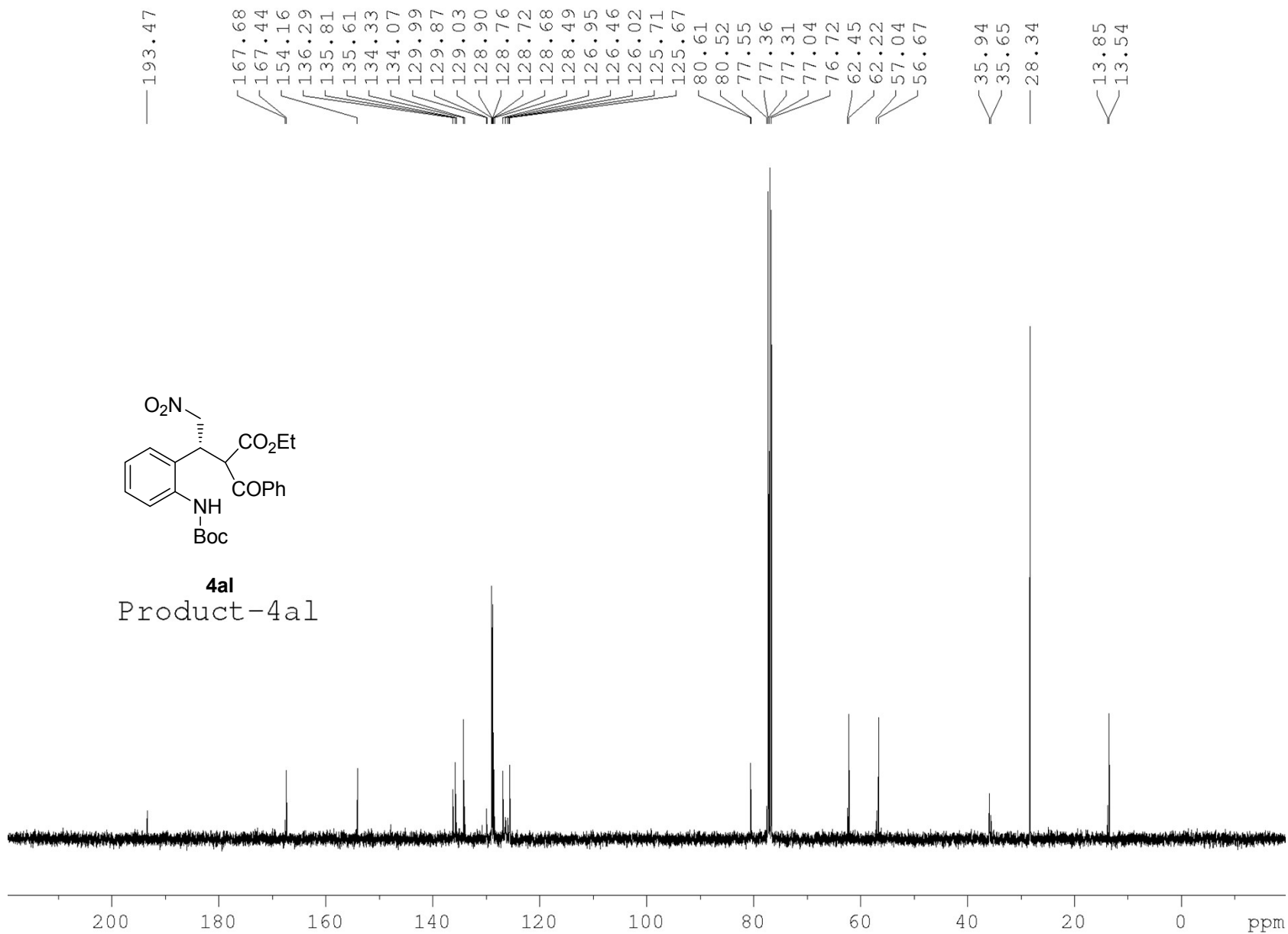
4gg

Product-4gg

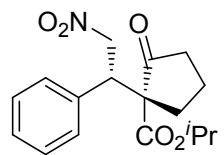




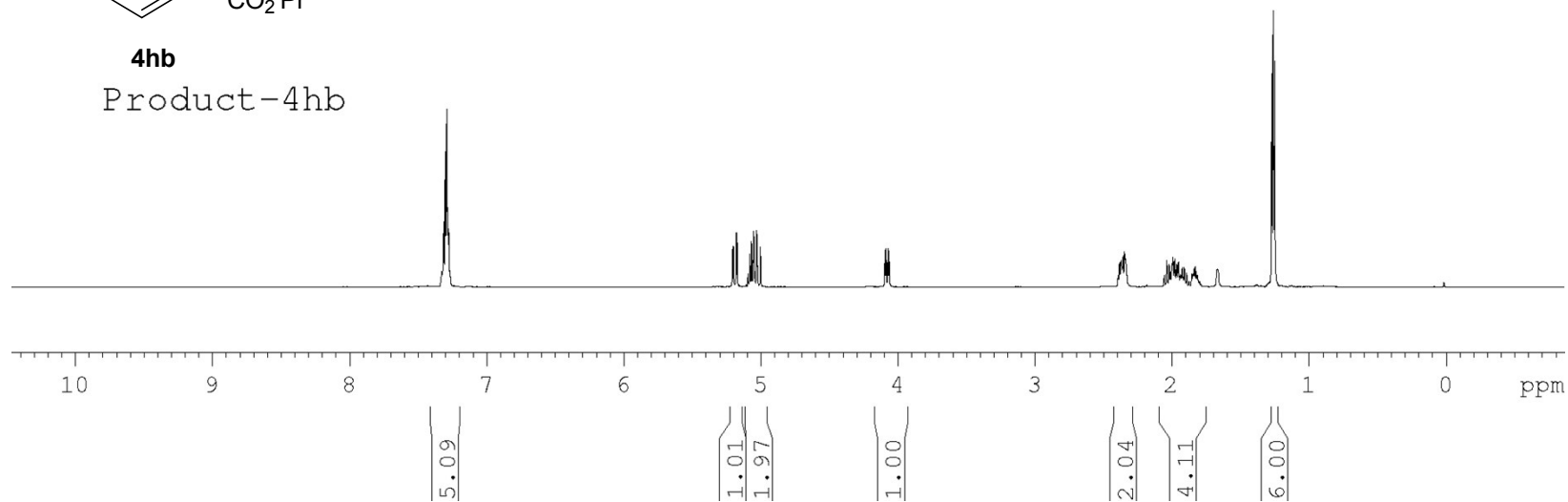


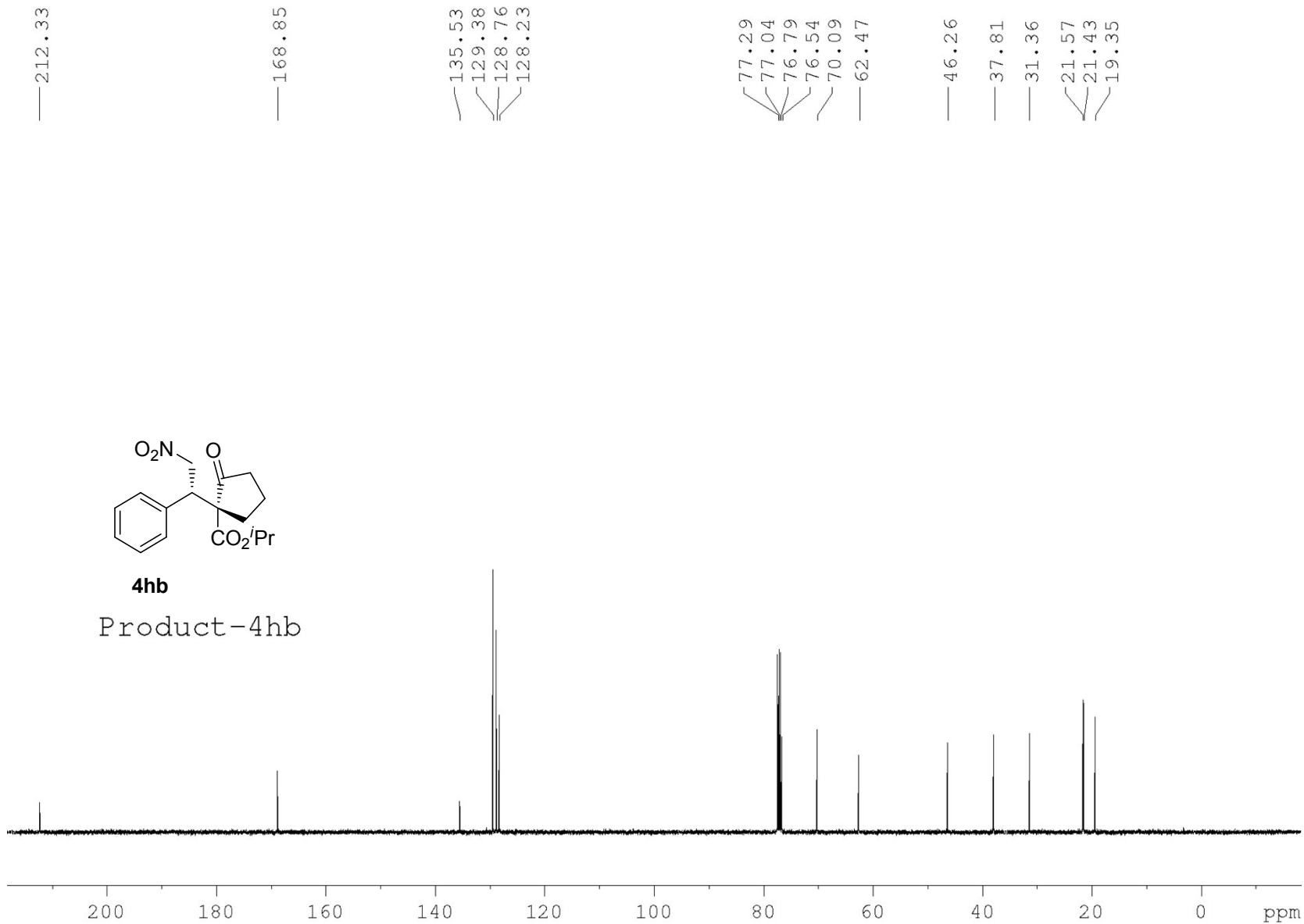


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7.324
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7.300
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7.274
7.265
5.205
5.197
5.178
5.170
5.090
5.078
5.065
5.053
5.048
5.040
5.026
5.021
4.999
4.091
4.083
4.069
4.061
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2.371
2.368
2.353
2.343
2.340
2.336
2.332
2.035
2.017
2.007
1.997
1.991
1.980
1.976
1.964
1.957
1.950
1.938
1.934
1.922
1.908
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1.259
1.257
1.247

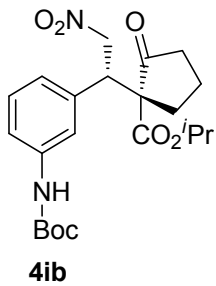


4hb
Product-4hb

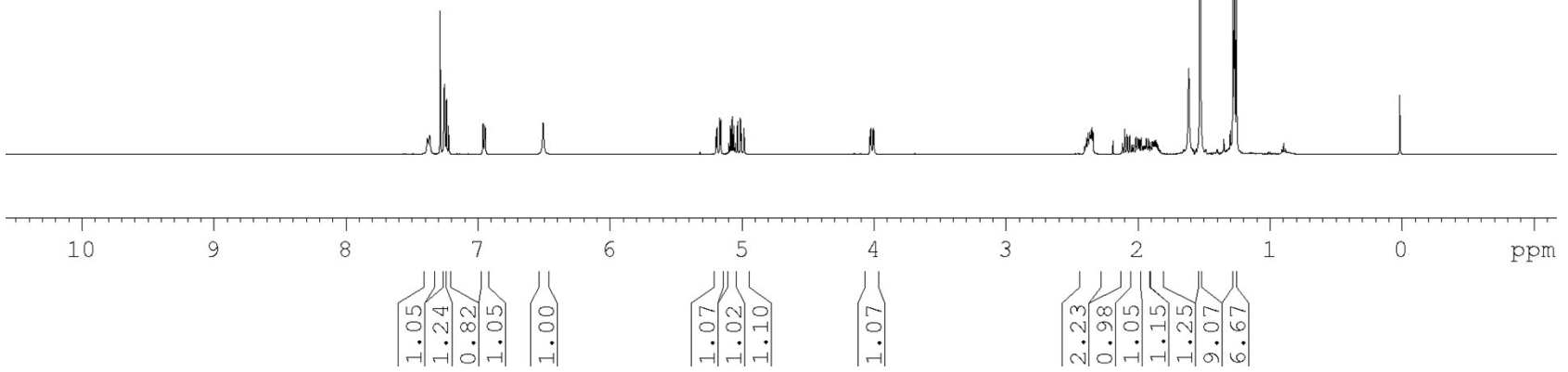


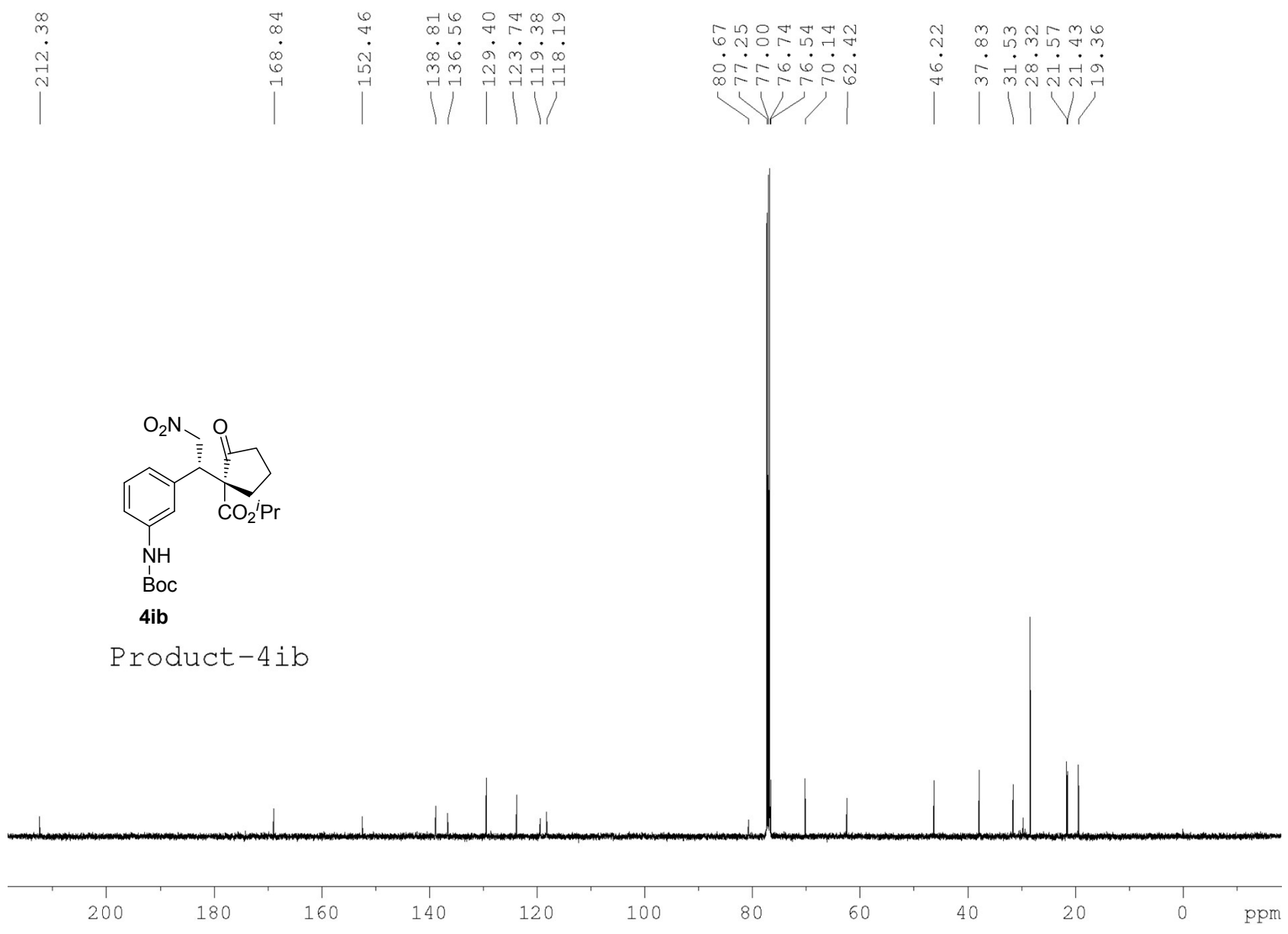


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6.957
6.942
6.502
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5.189
5.169
5.162
5.101
5.089
5.076
5.063
5.051
5.035
5.013
5.008
4.986
4.031
4.023
4.009
4.002
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2.389
2.379
2.368
2.359
2.351
2.343
2.120
2.102
2.084
2.064
2.017
2.001
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1.977
1.975
1.950
1.938
1.924
1.921
1.907
1.892
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1.282
1.269
1.268
1.255



Produuct-4ib

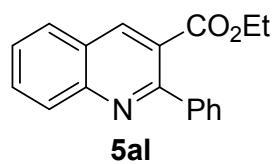




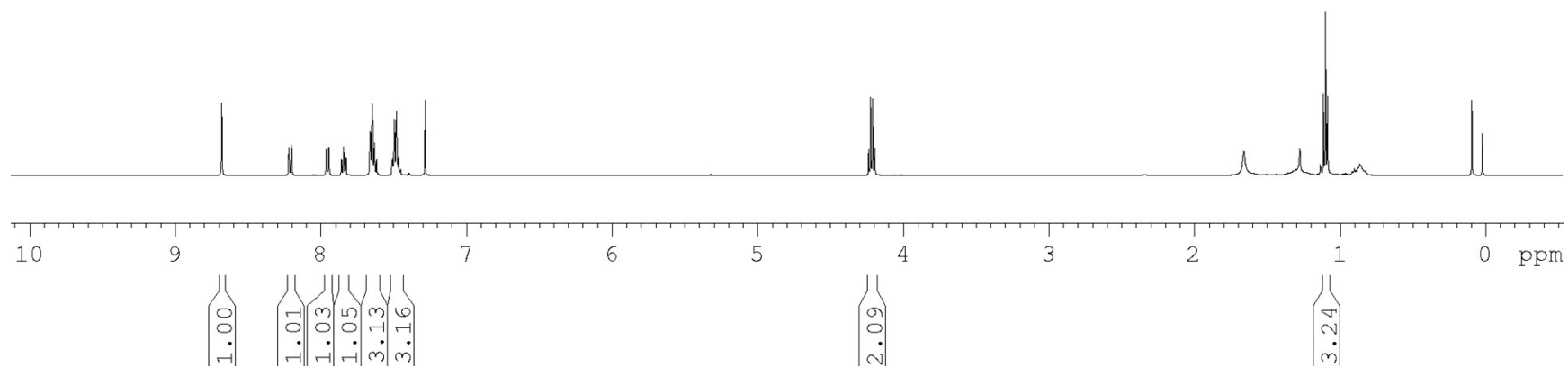
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7.646
7.643
7.638
7.630
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7.463

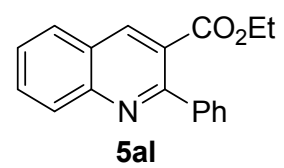
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4.221
4.206
4.192

1.111
1.096
1.082

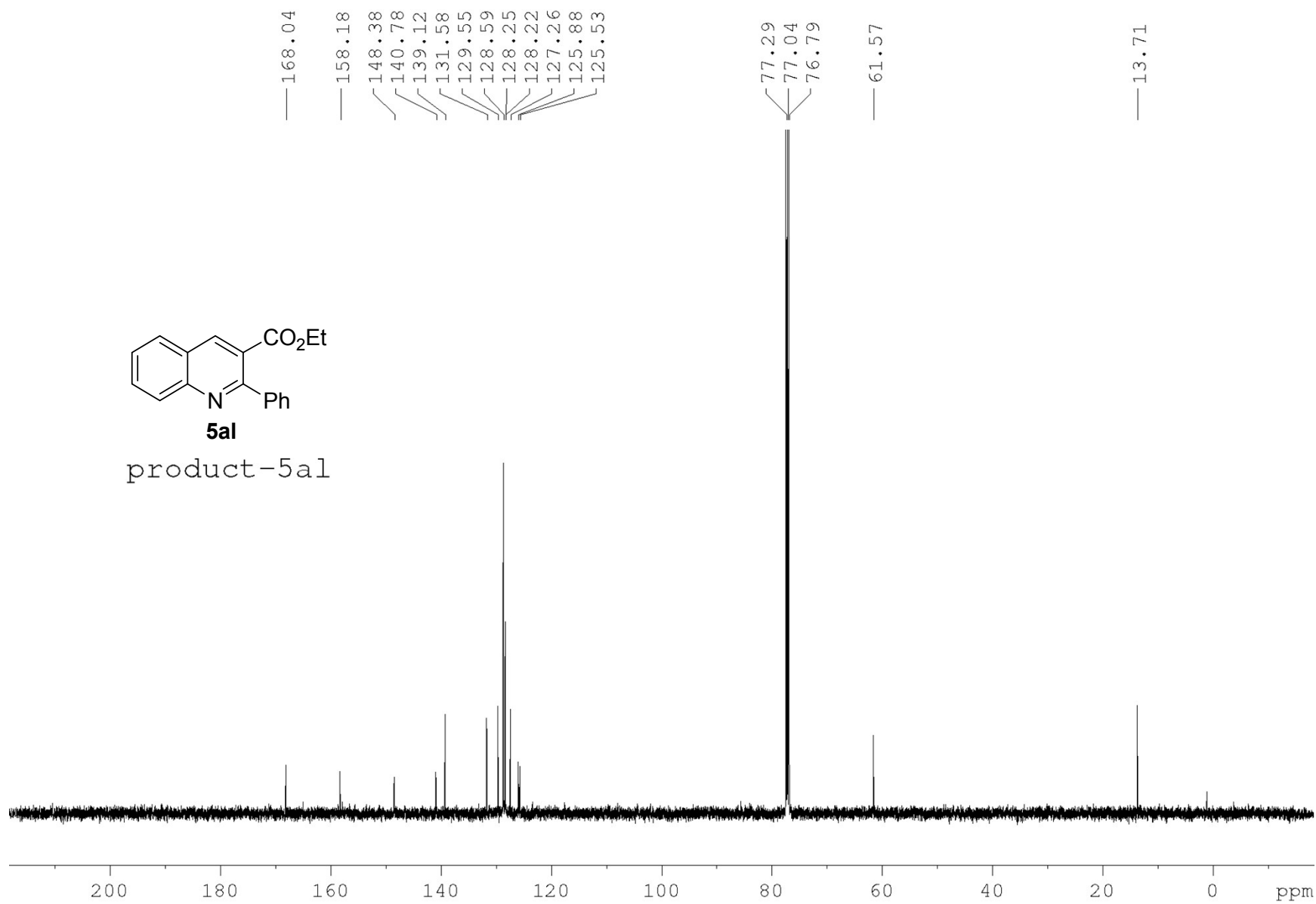


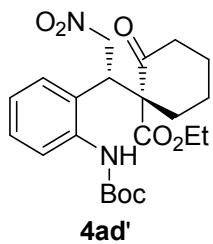
product-5a1



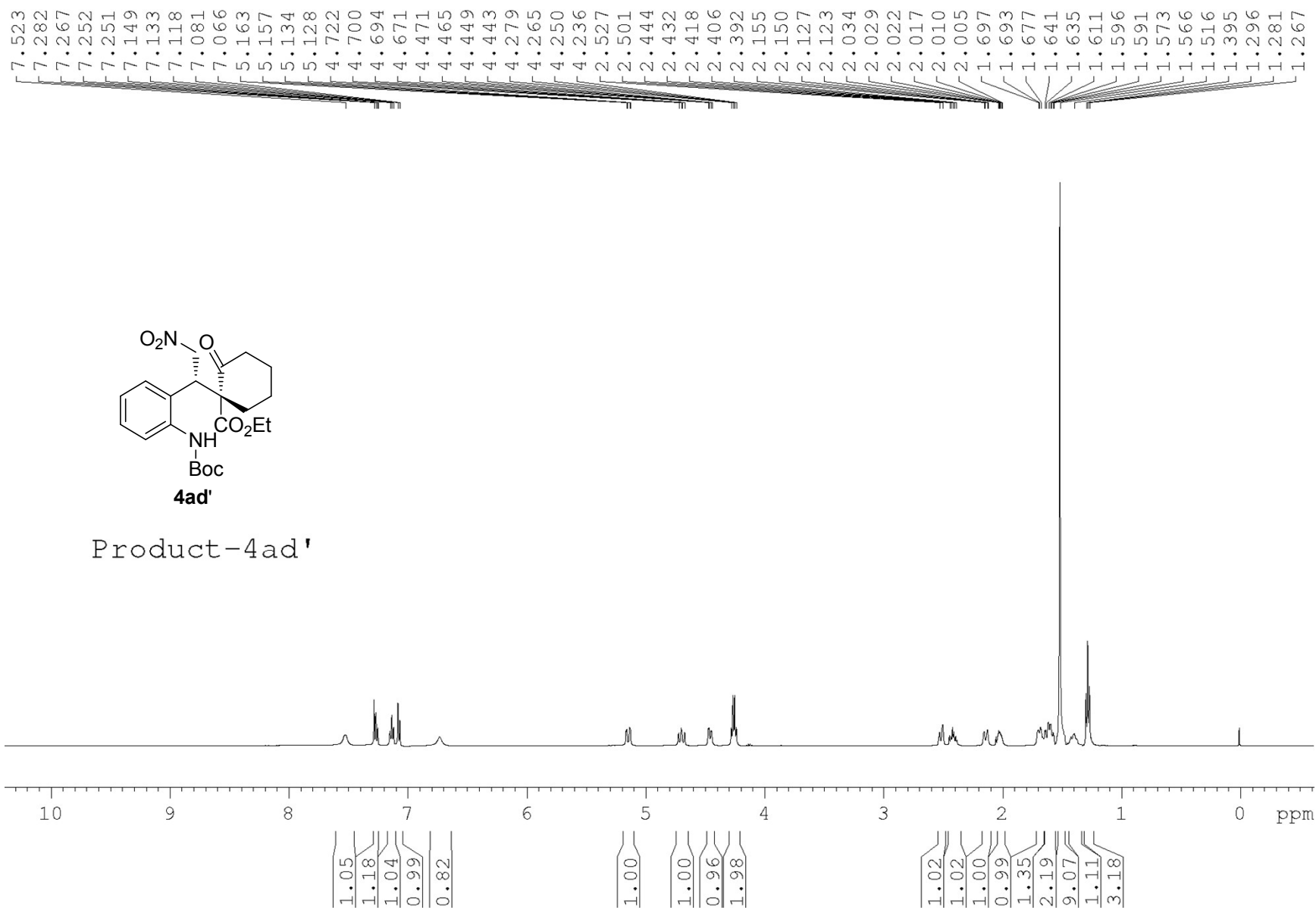


product-5al





Product-4ad'



— 207.17

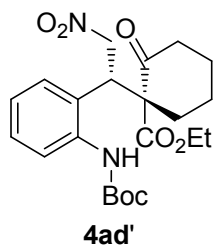
— 169.66

— 153.96

137.03
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128.50
127.45
126.88
125.57

80.45
77.51
77.31
77.06
76.80
63.02
62.20

41.44
39.30
35.86
28.31
27.90
22.31
— 13.96



Product-4ad'

