

ELECTRONIC SUPPLEMENTARY INFORMATION

for

Dramatic Increase of Quench Efficiency in “Spacerless” Dimaleimide Fluorogens

Karine Caron, Virginie Lachapelle and Jeffrey W. Keillor*

Département de chimie, Université de Montréal

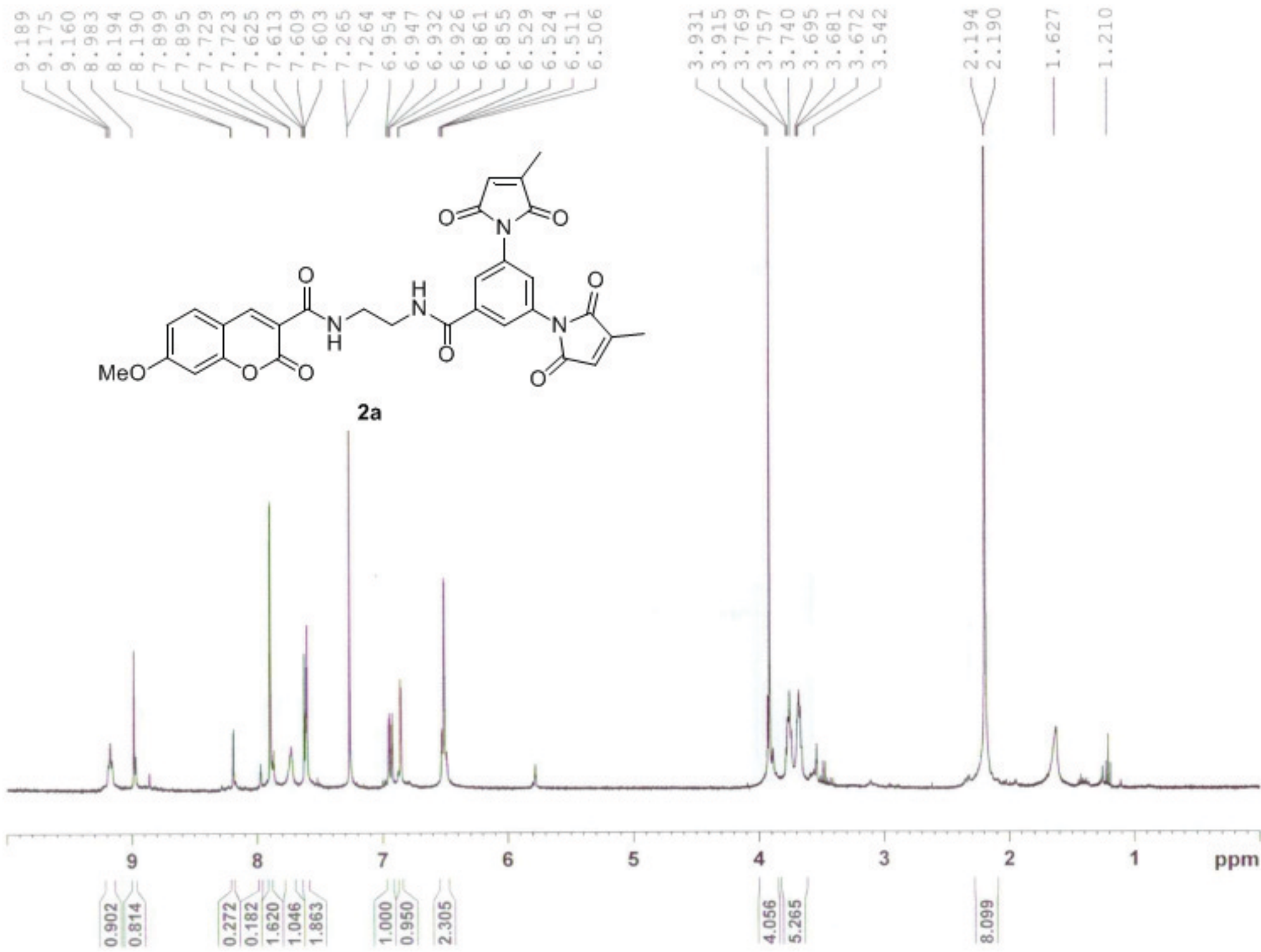
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Montréal, Québec H3C 3J7

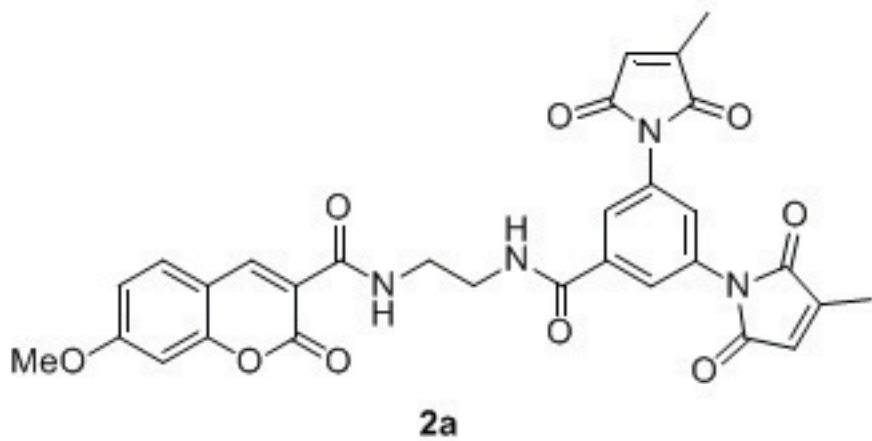
Canada

* Corresponding author: jw.keillor@umontreal.ca

Contents: NMR spectra of synthetic intermediates



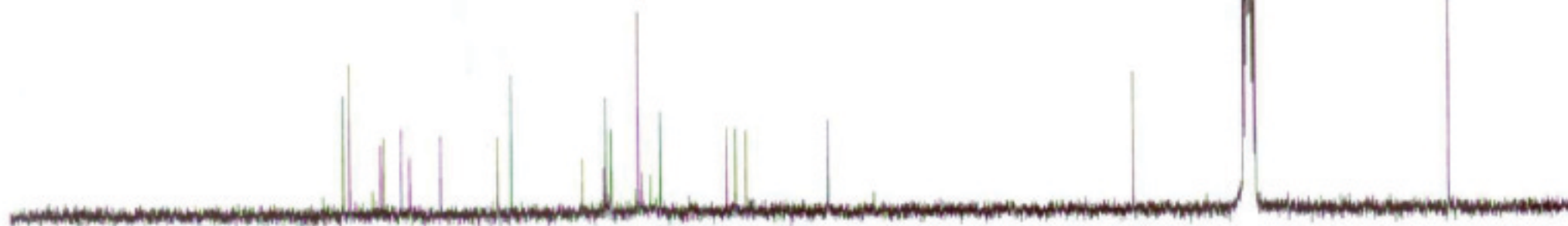
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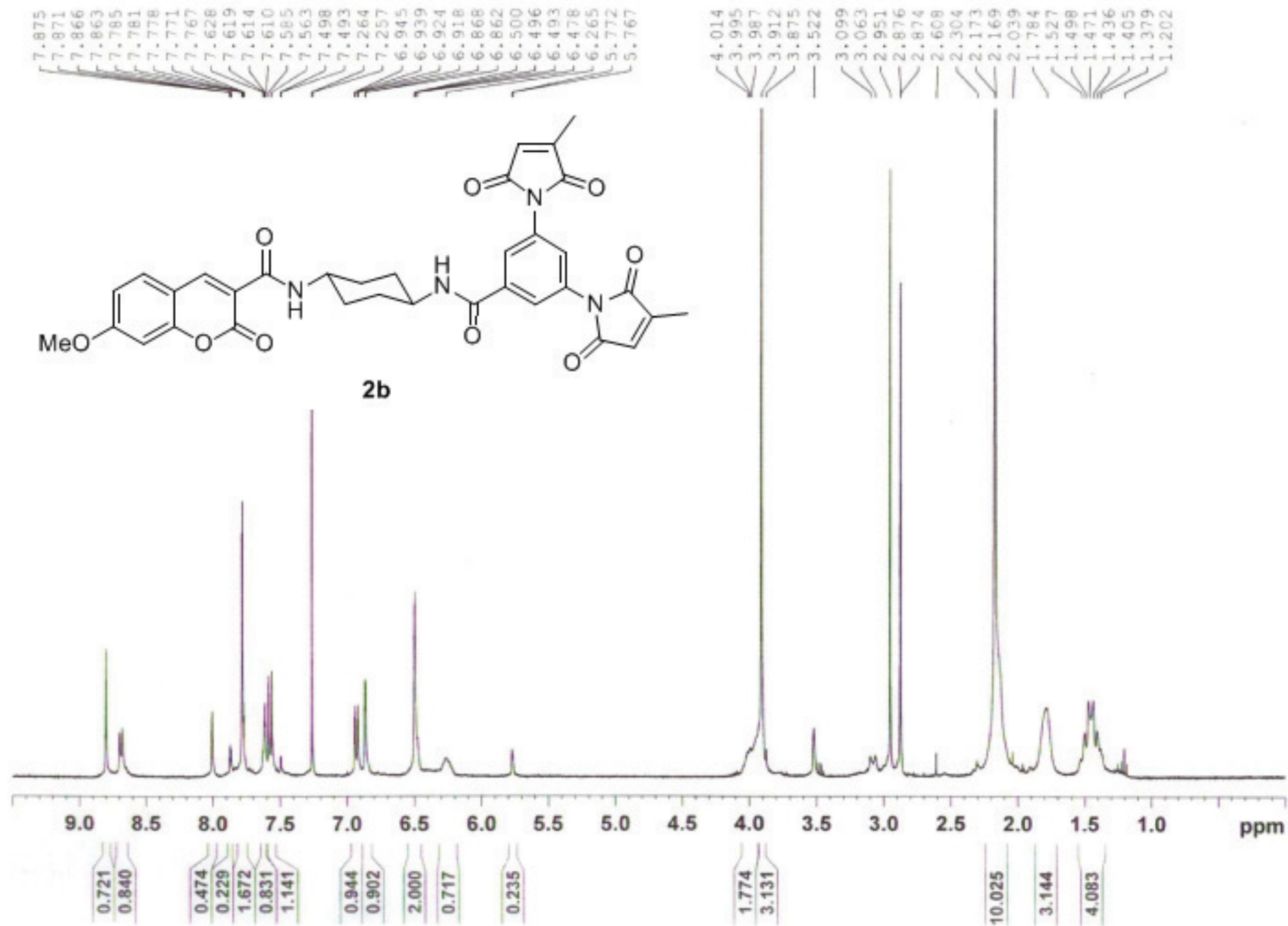


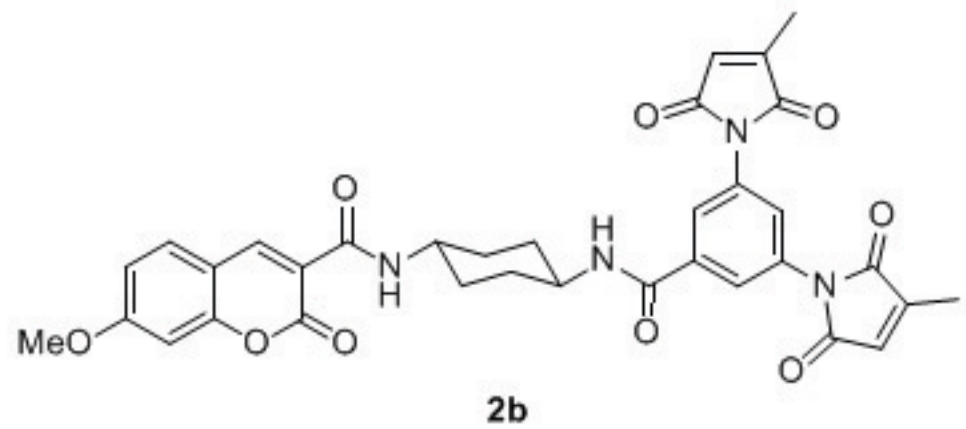
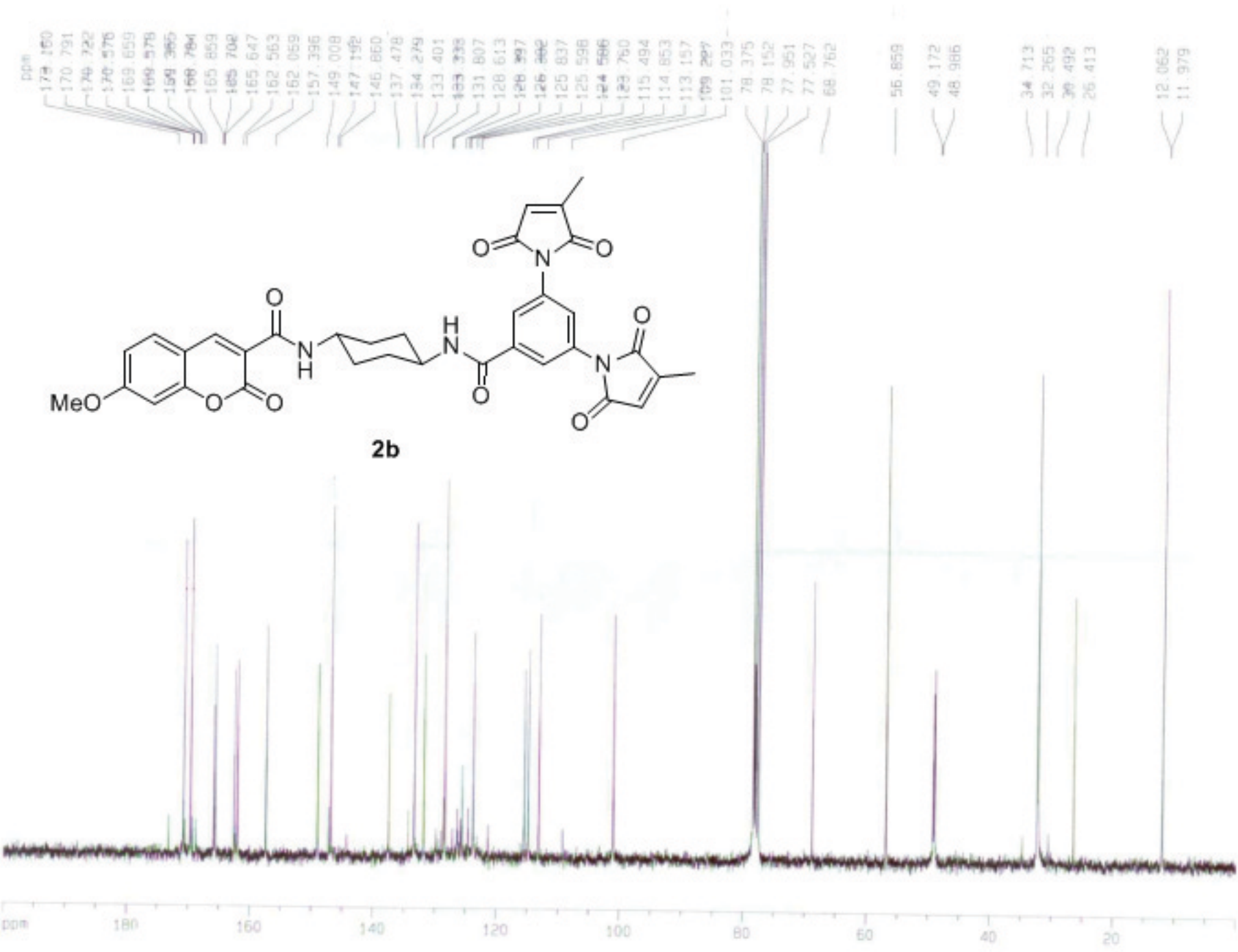
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133.603
132.841
129.308
128.918
128.342
127.155
125.762
116.127
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101.547

57.540
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41.342
41.064
40.785
40.507
40.229
39.951

12.152



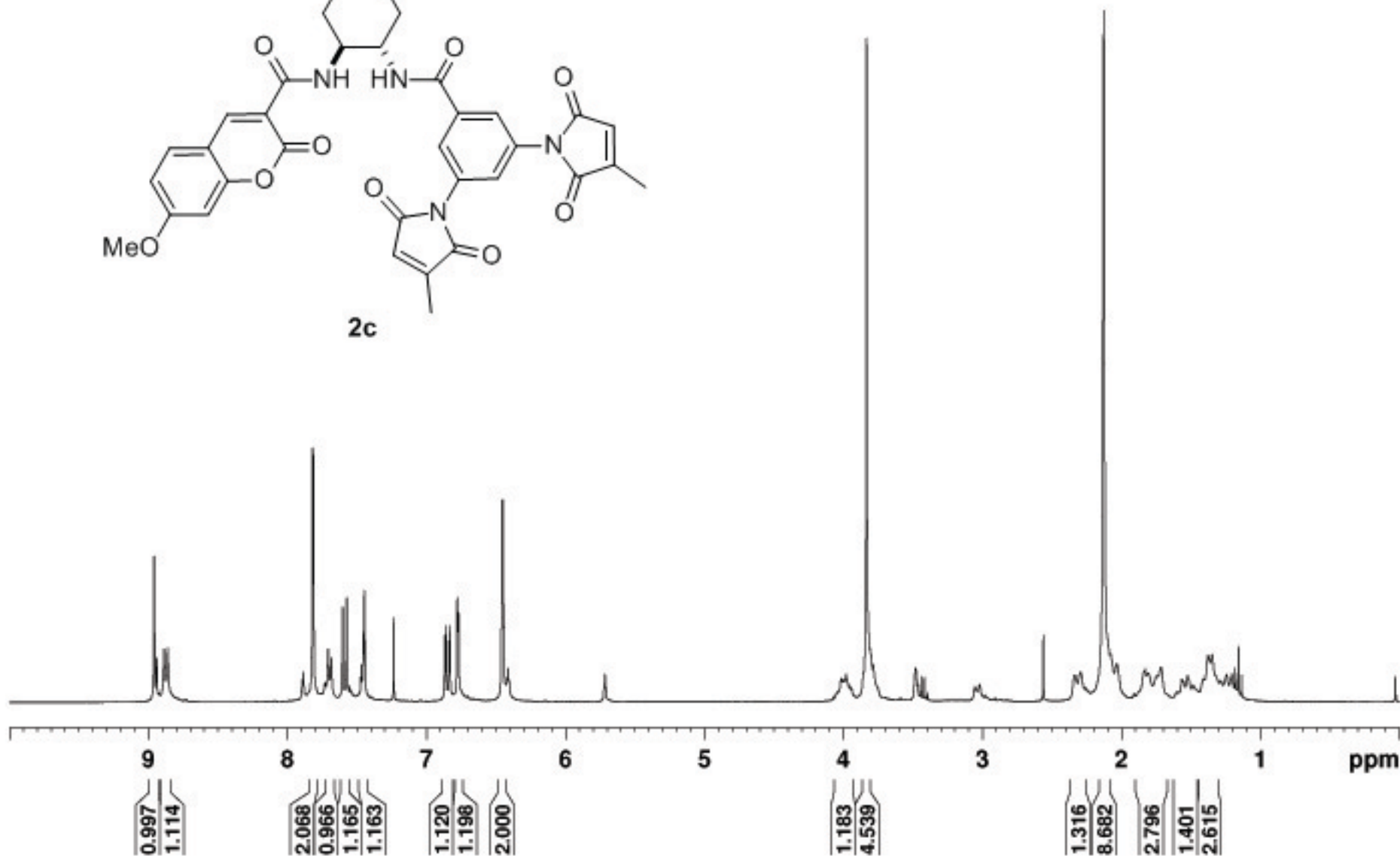
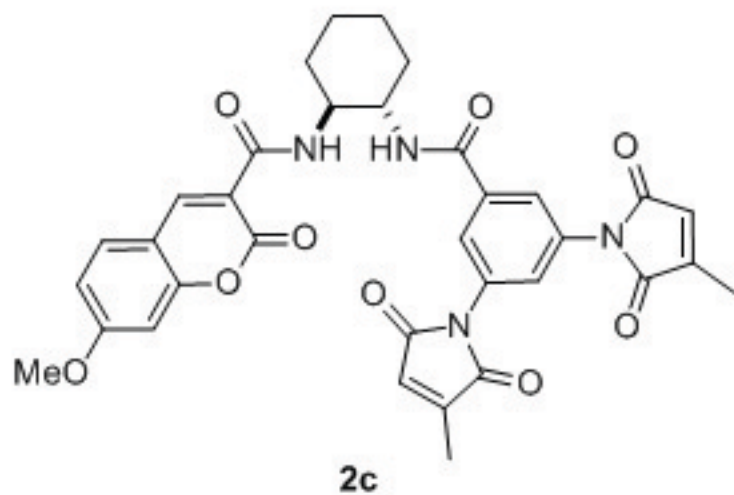




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8.942
8.889
8.863
7.890
7.820
7.813
7.709
7.686
7.603
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7.467
7.460
7.455
7.449
7.442
7.236
6.869
6.861
6.840
6.832
6.779
6.771
6.456
6.450
6.444

4.018
4.007
3.993
3.981
3.834

2.336
2.293
2.132
2.127
1.836
1.829
1.807
1.747
1.715
1.525
1.410
1.378
1.348



170.826
169.671
165.741
165.414
164.854
162.492
157.632

150.458
146.811

137.155
133.289
133.192
132.025
128.437
126.210
124.371

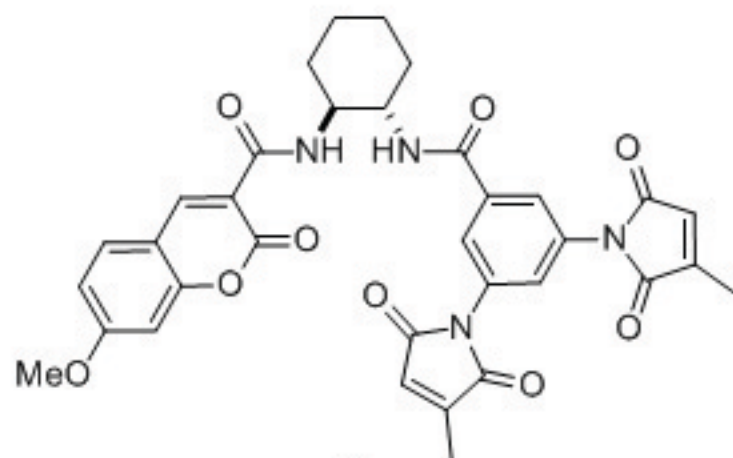
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113.417

100.923

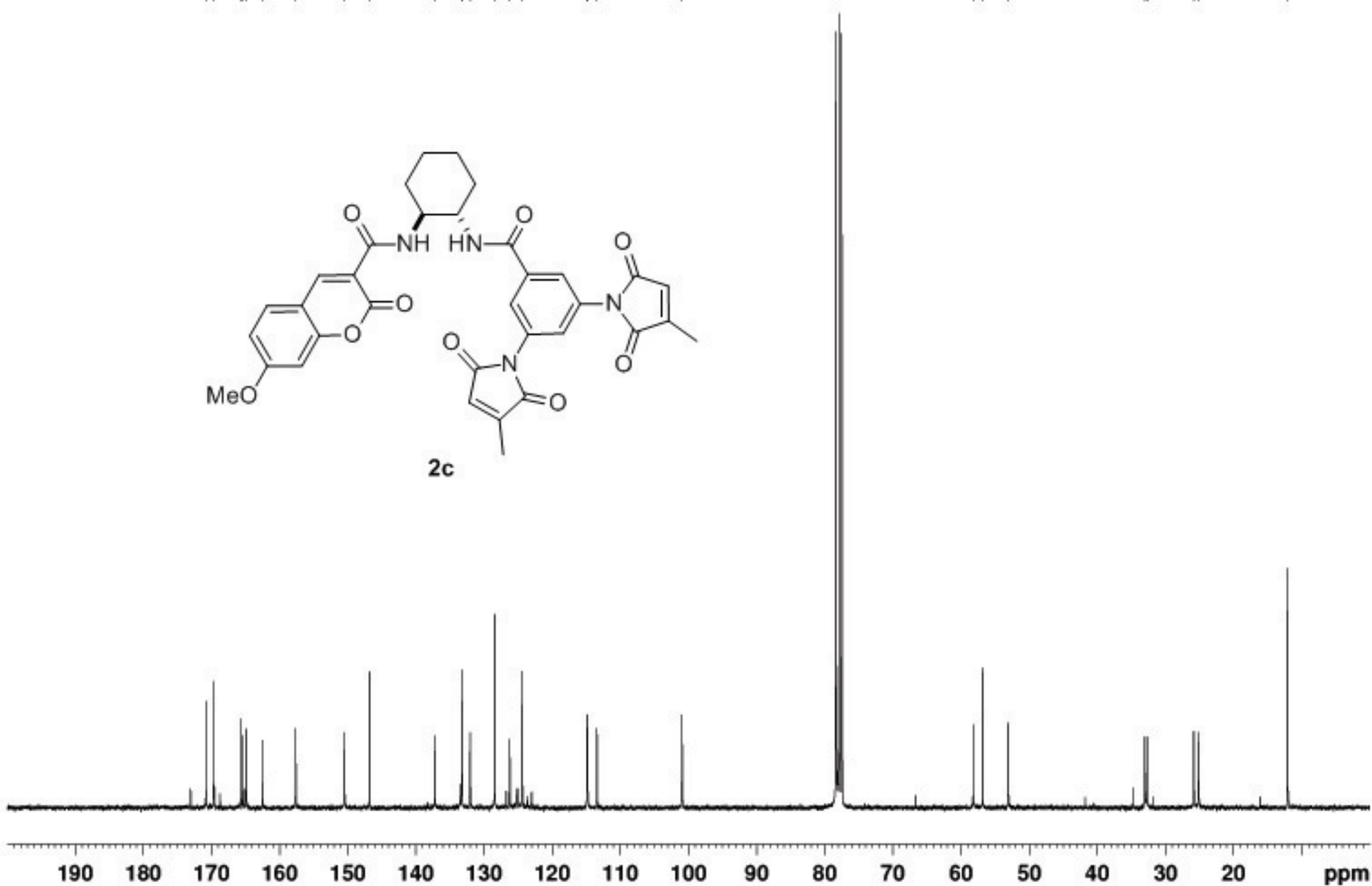
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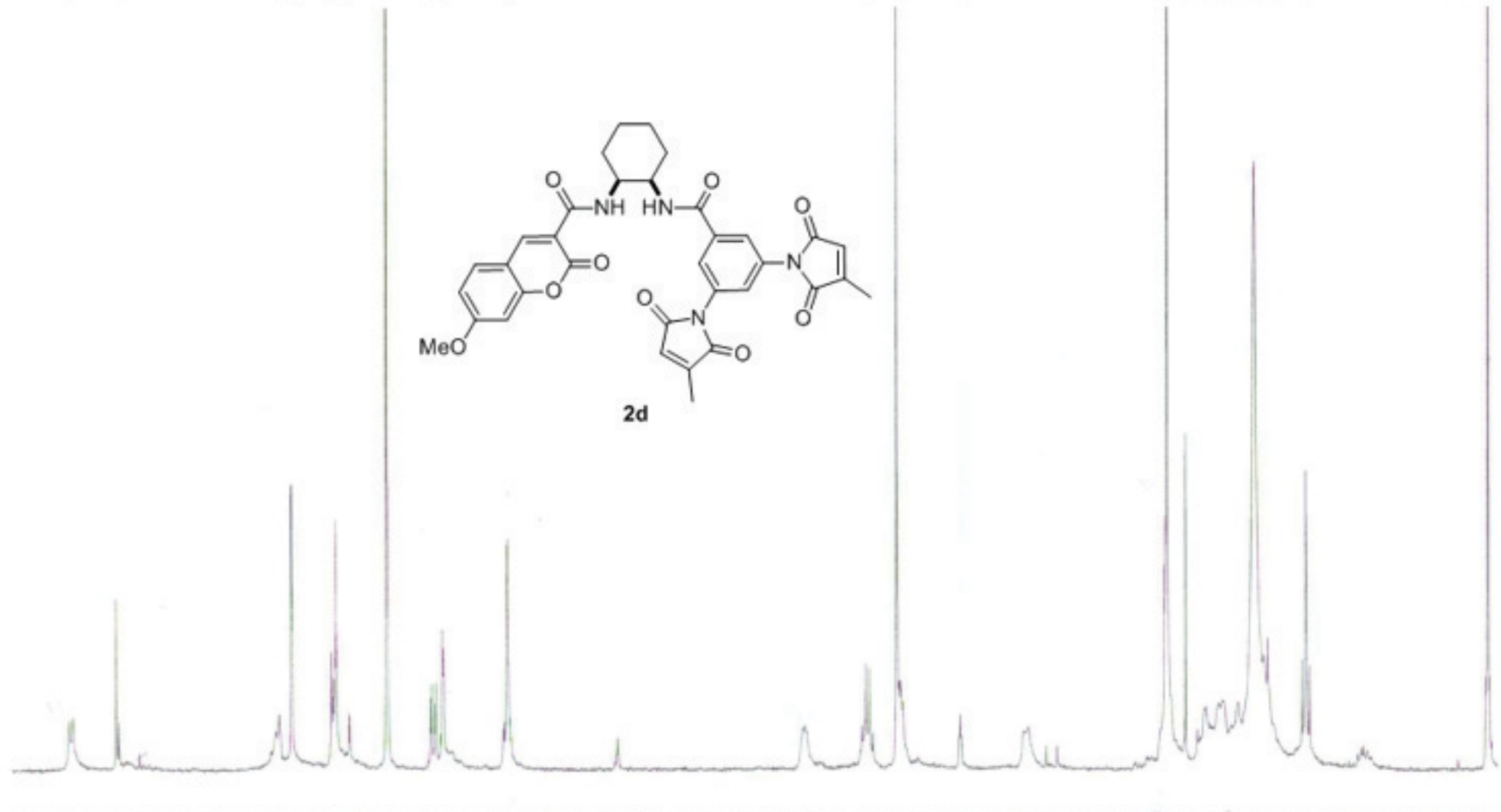
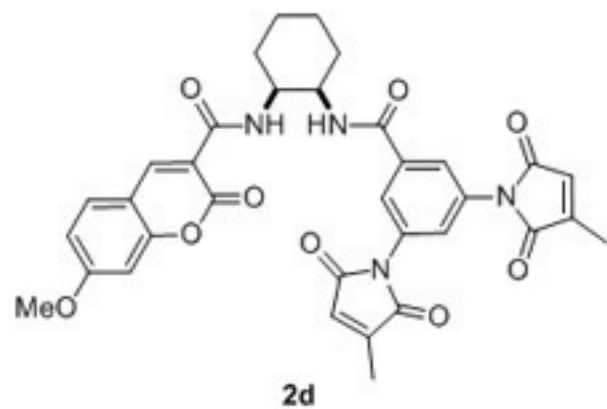
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2c

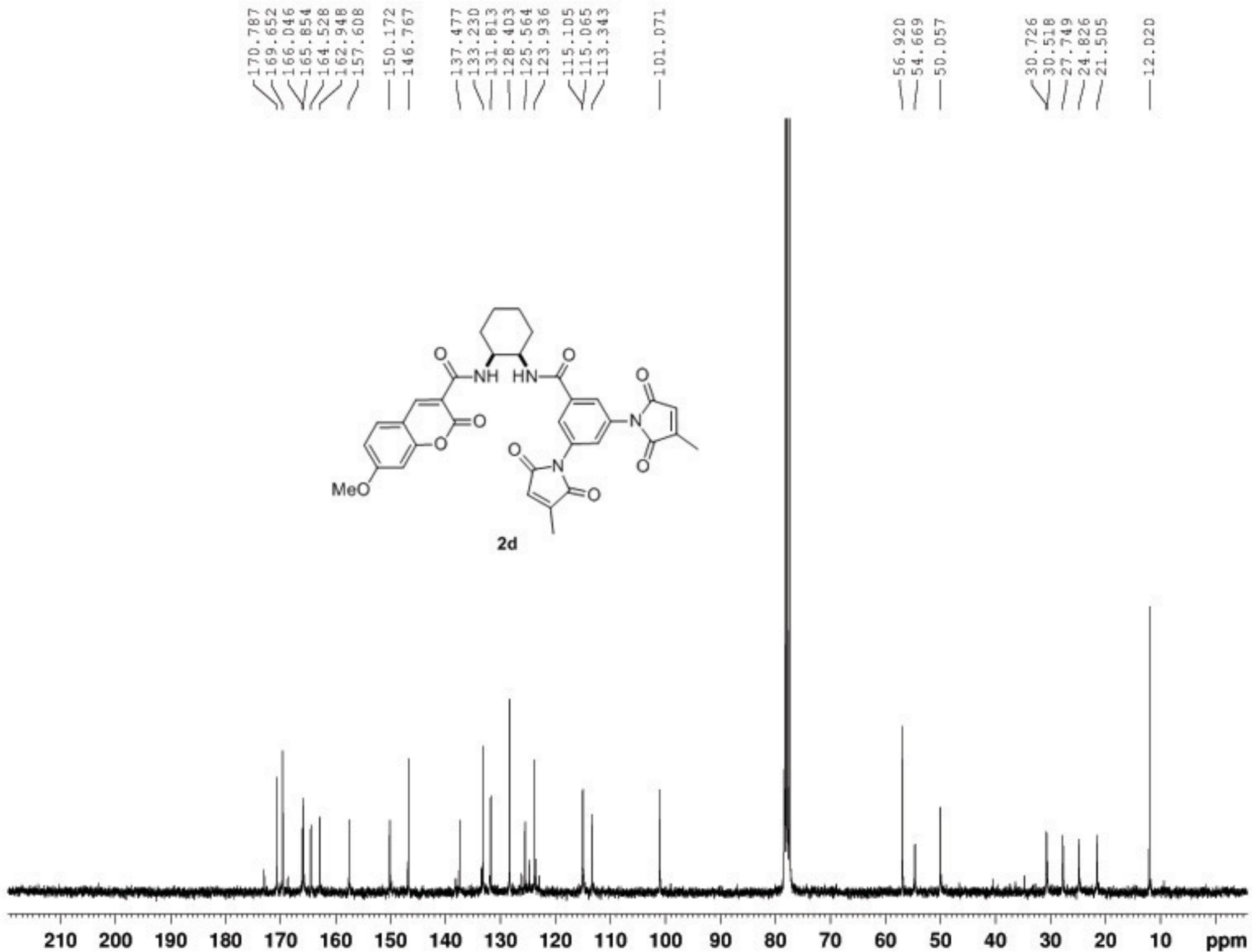


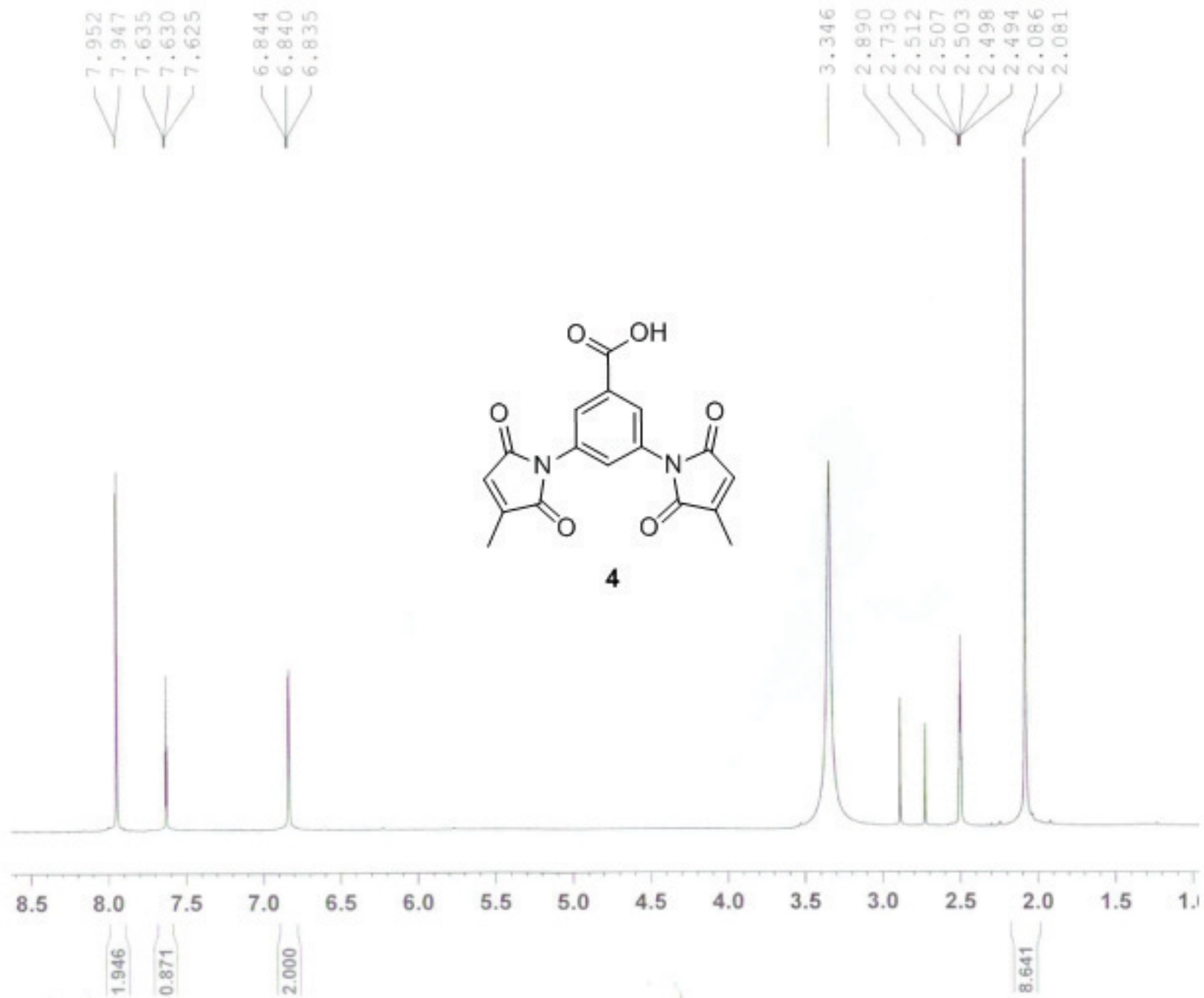
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 7.597
 7.519
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 6.979
 6.958
 6.950
 6.908
 6.901
 6.505
 6.487
 6.481
 6.476
 6.467
 4.144
 4.120
 3.942
 3.928
 3.918
 3.904
 3.527
 2.192
 2.186
 2.179
 2.172
 2.055
 1.922
 1.837
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 1.246
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 0.080
 0.068

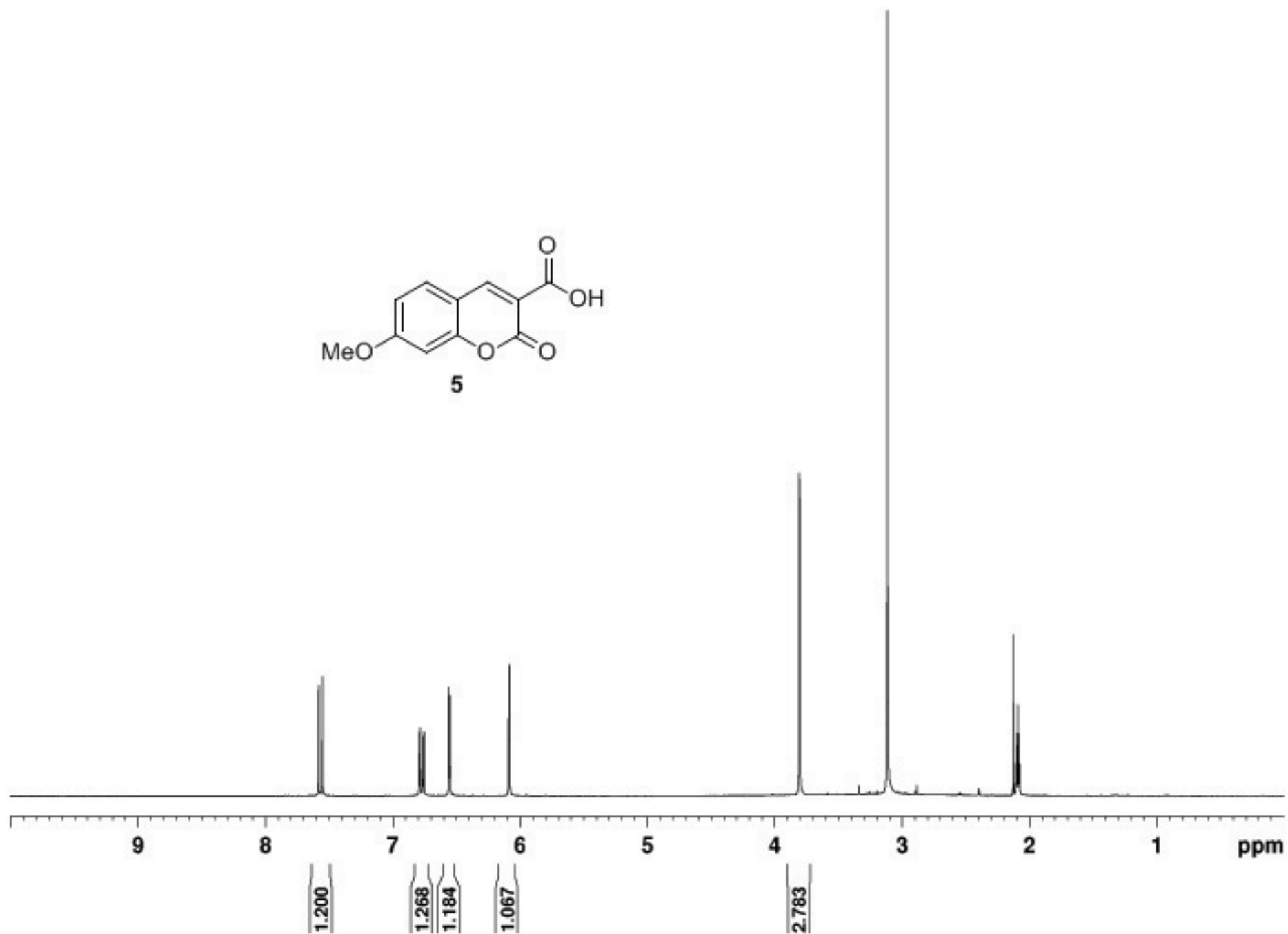
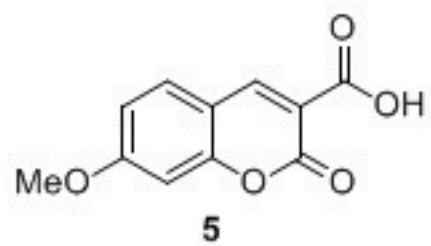


9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 ppm

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 0.793
 1.168
 1.676
 2.205
 0.998
 1.117
 2.090
 1.106
 1.643
 4.200
 0.438
 1.301
 8.069
 1.279
 2.060
 2.894
 1.617
 15.521
 2.965







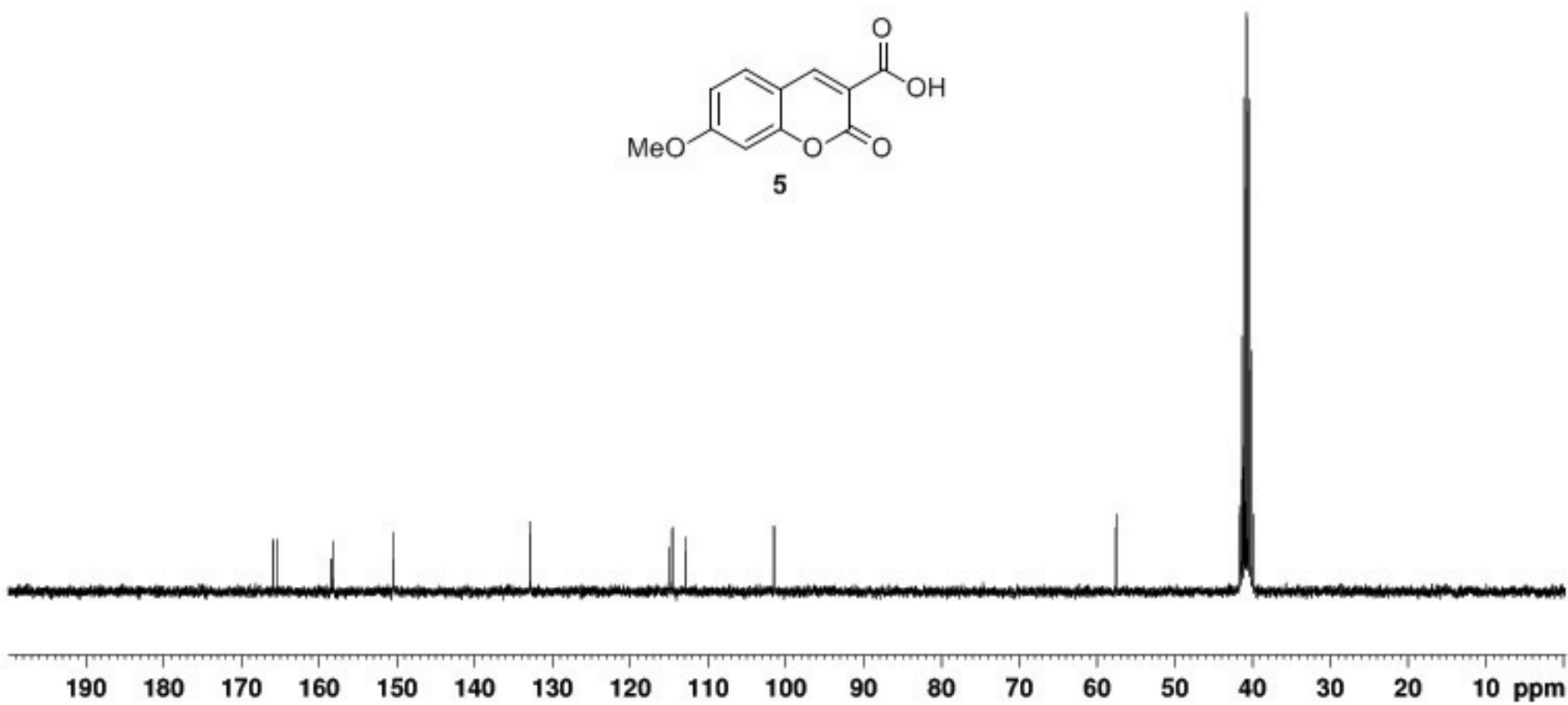
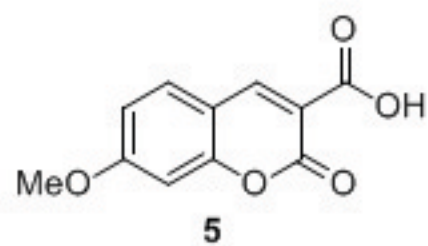
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165.450
158.463
158.173
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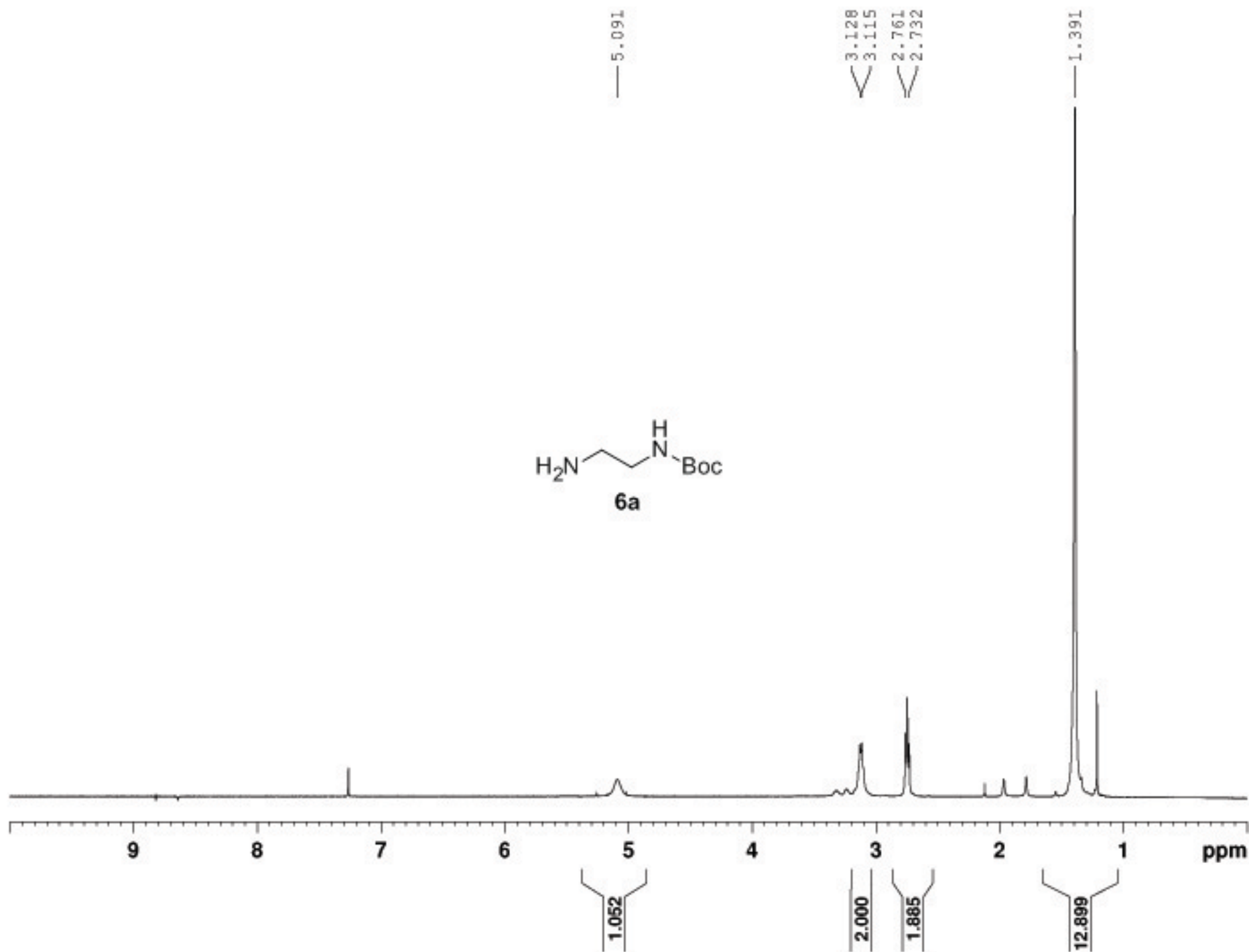
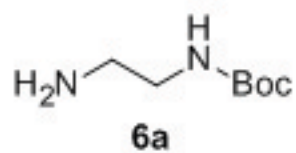
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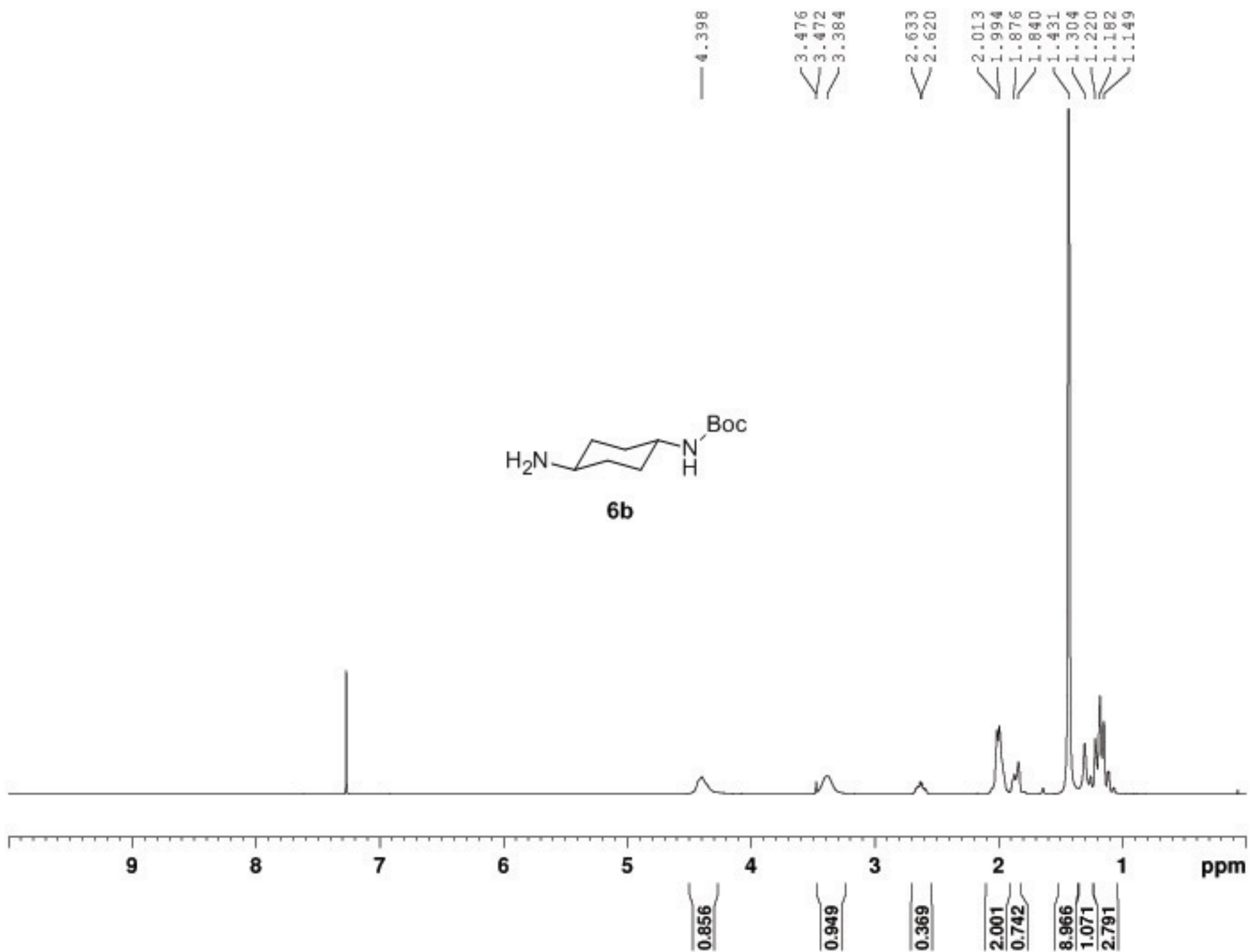
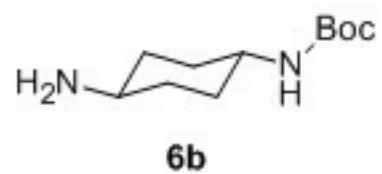
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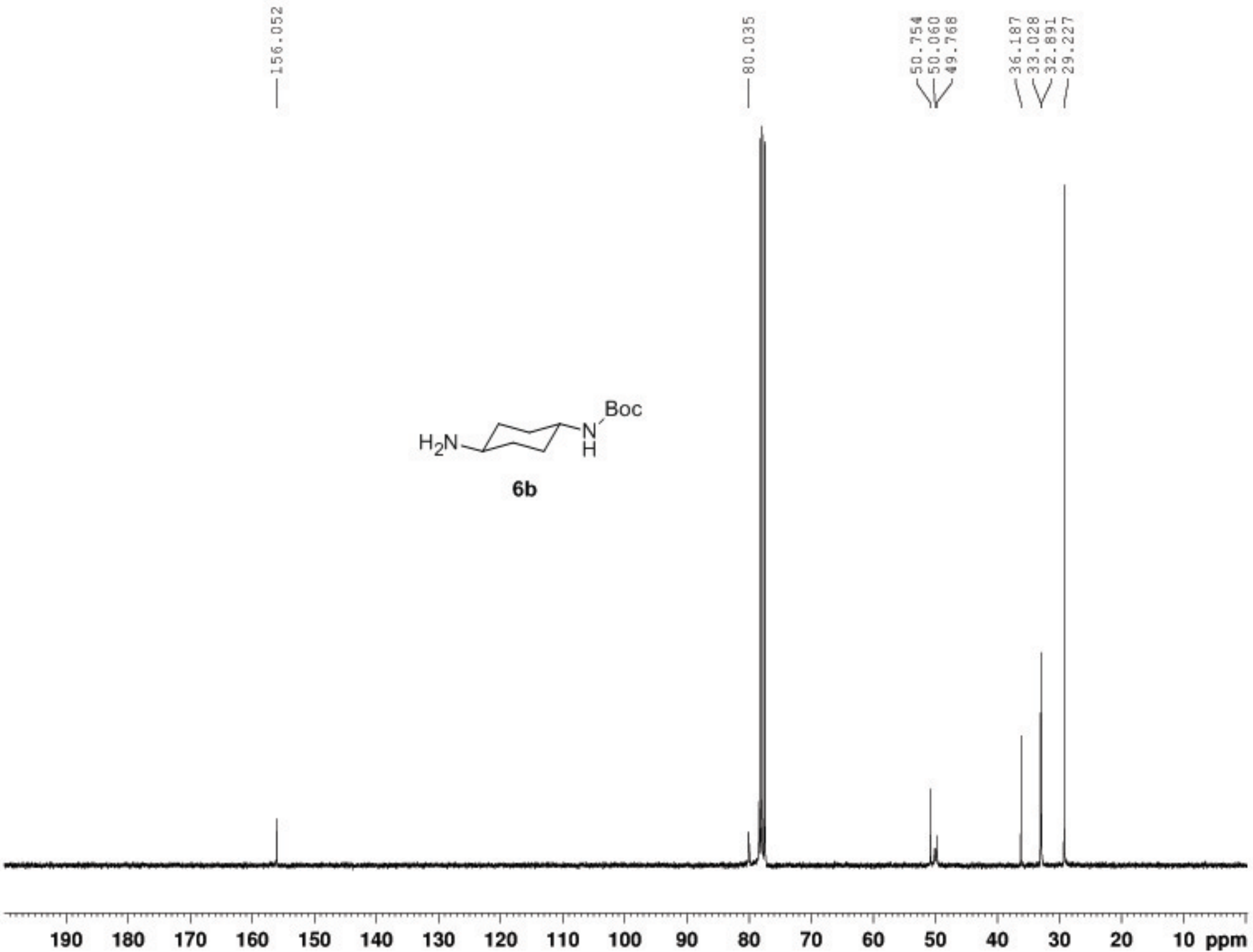
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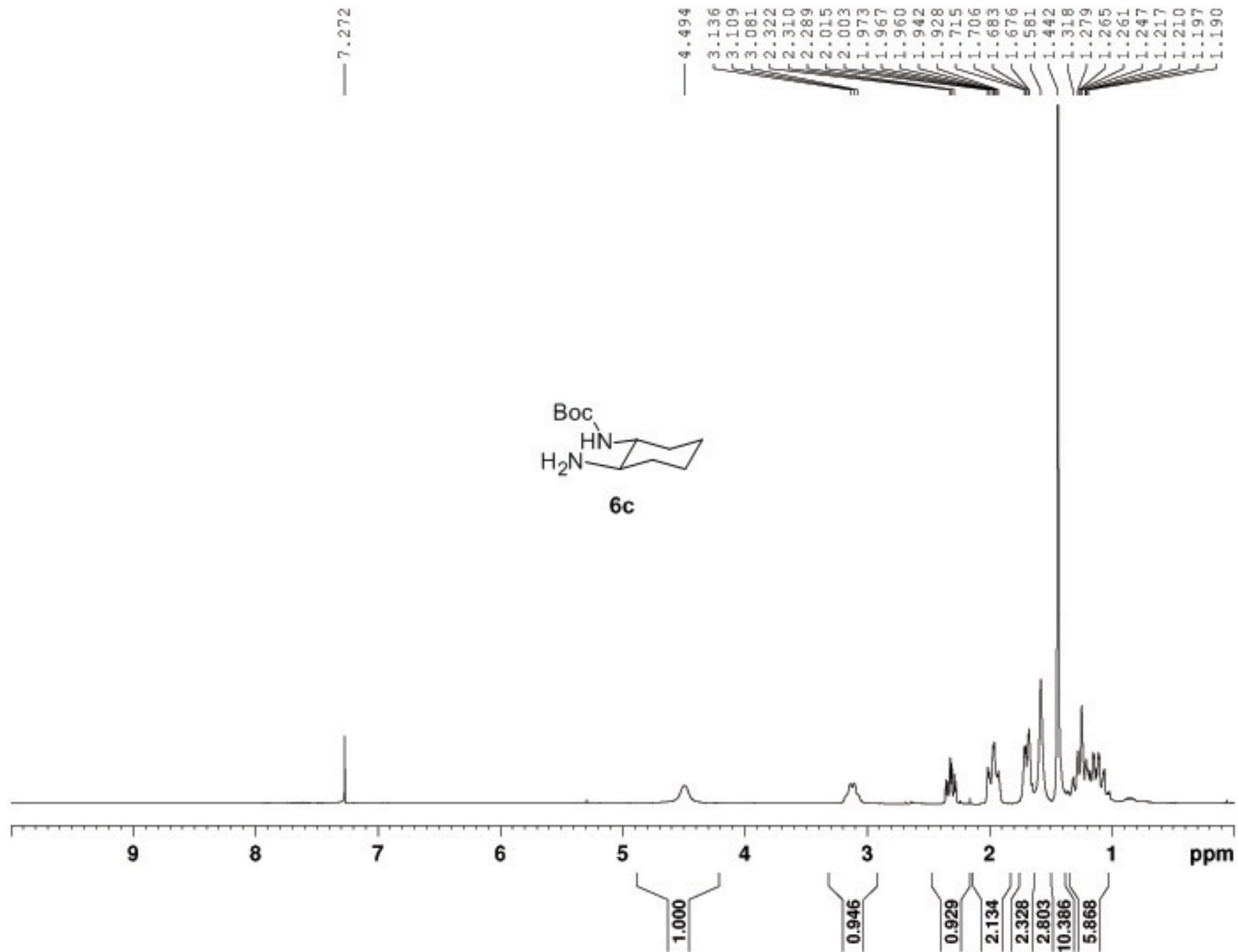
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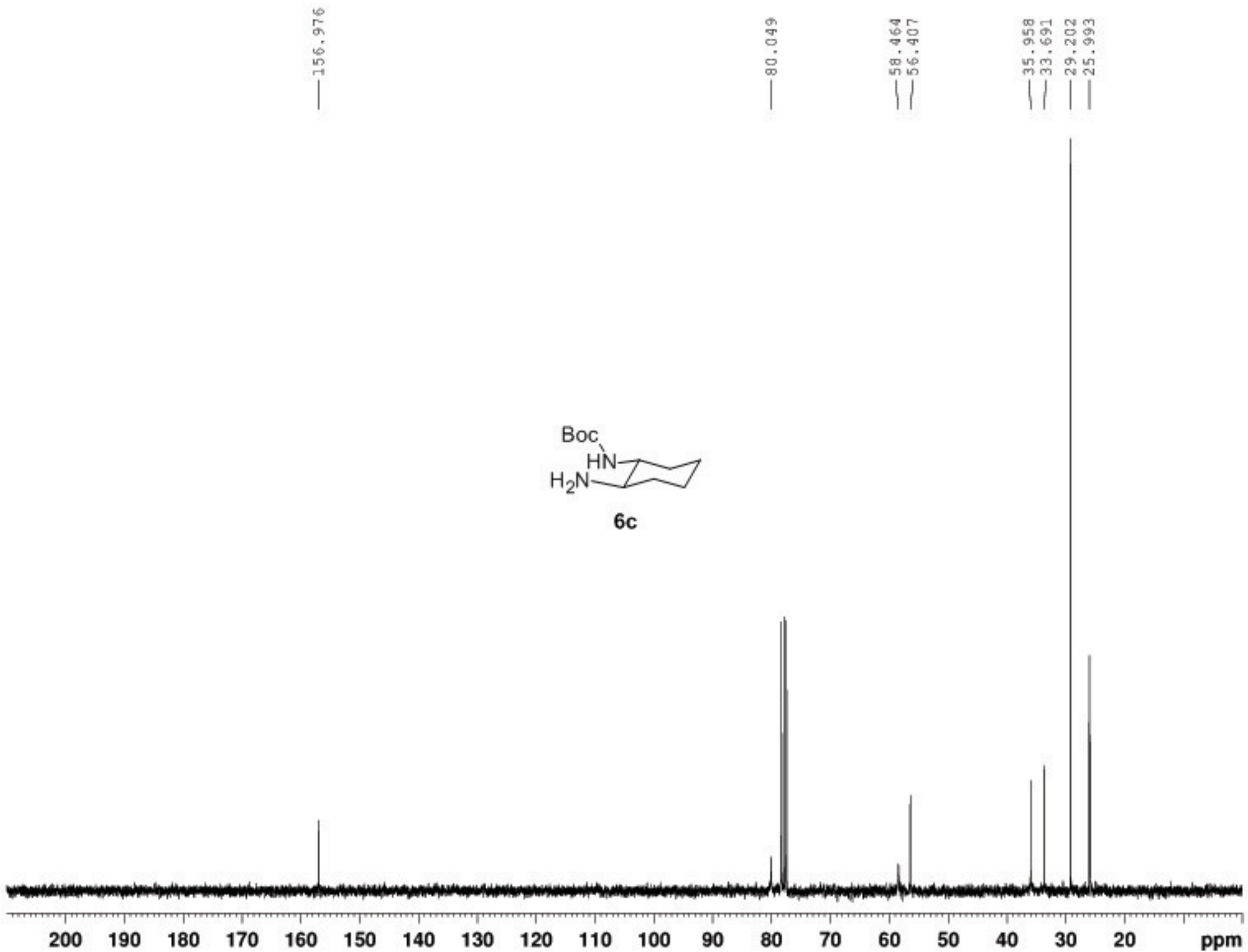
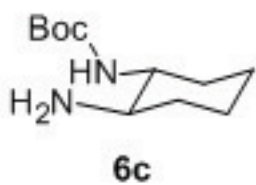


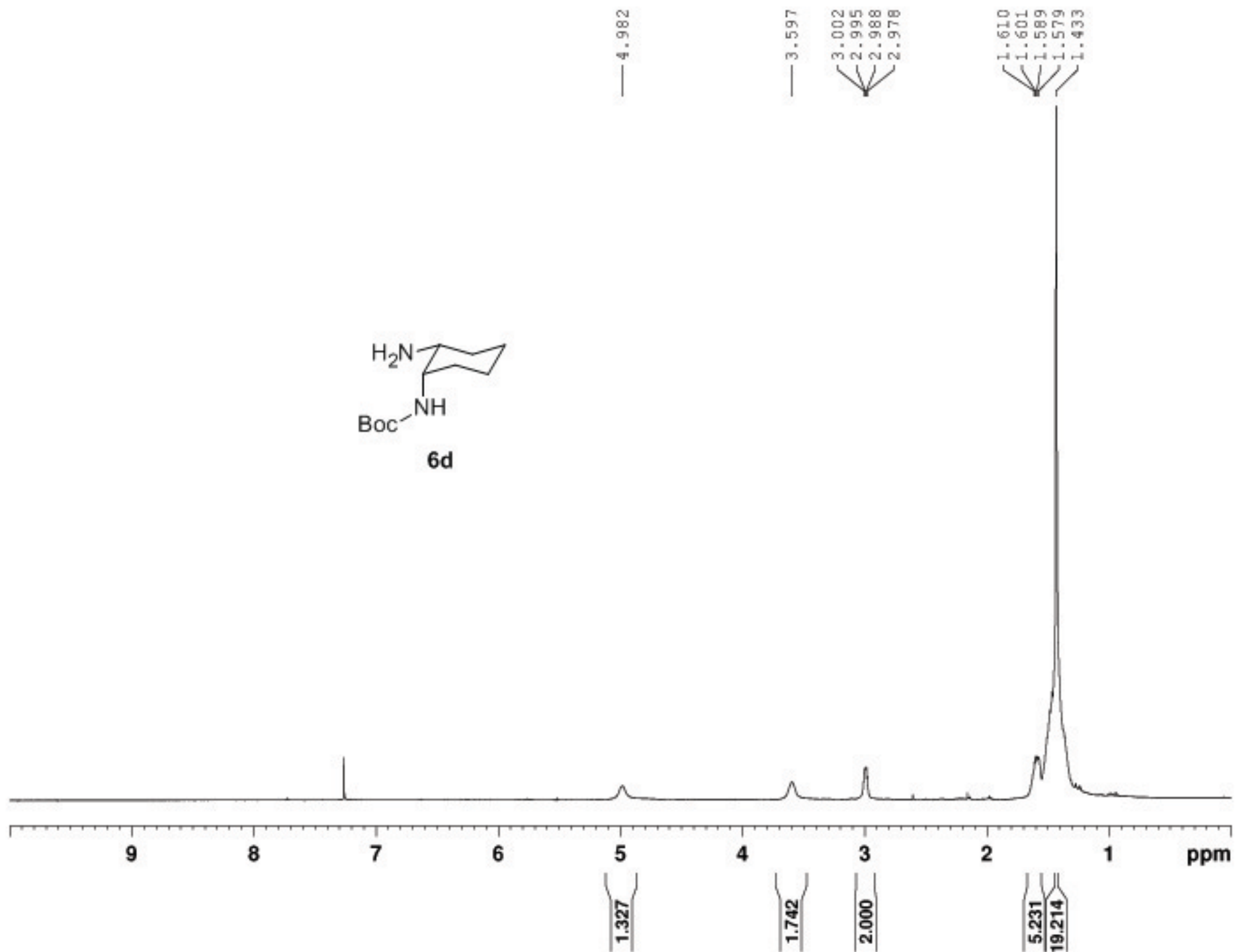
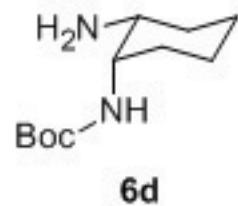


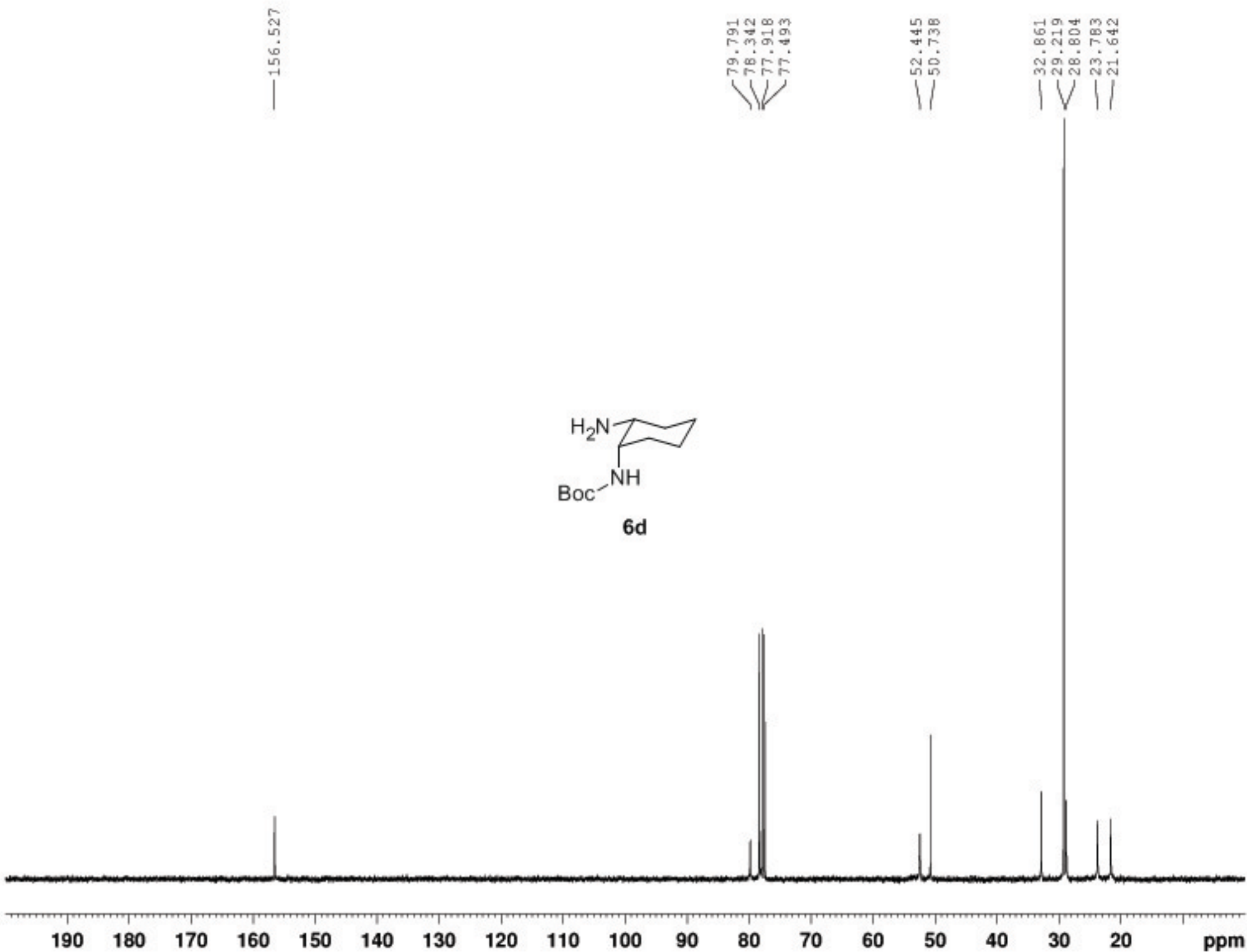


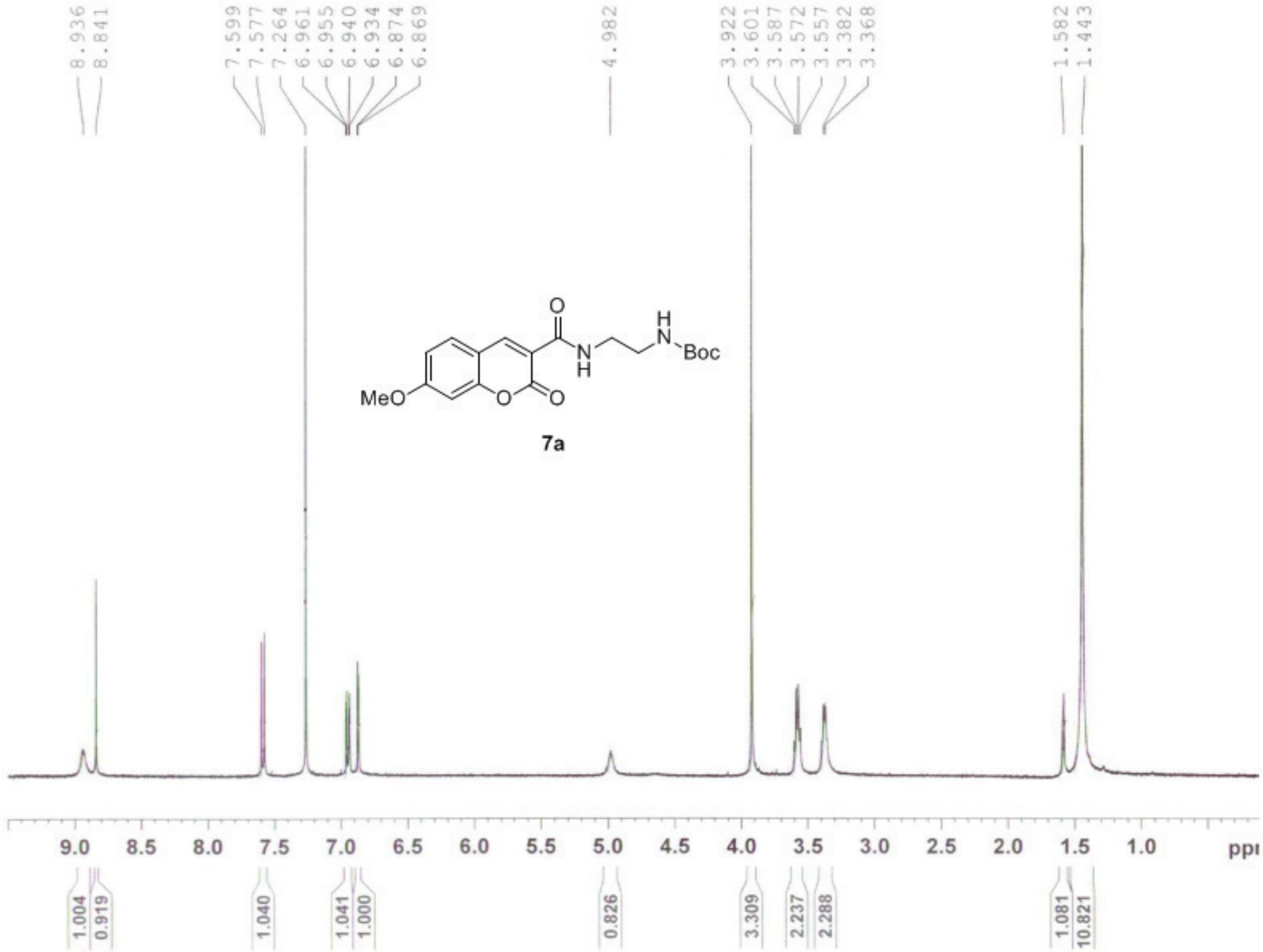


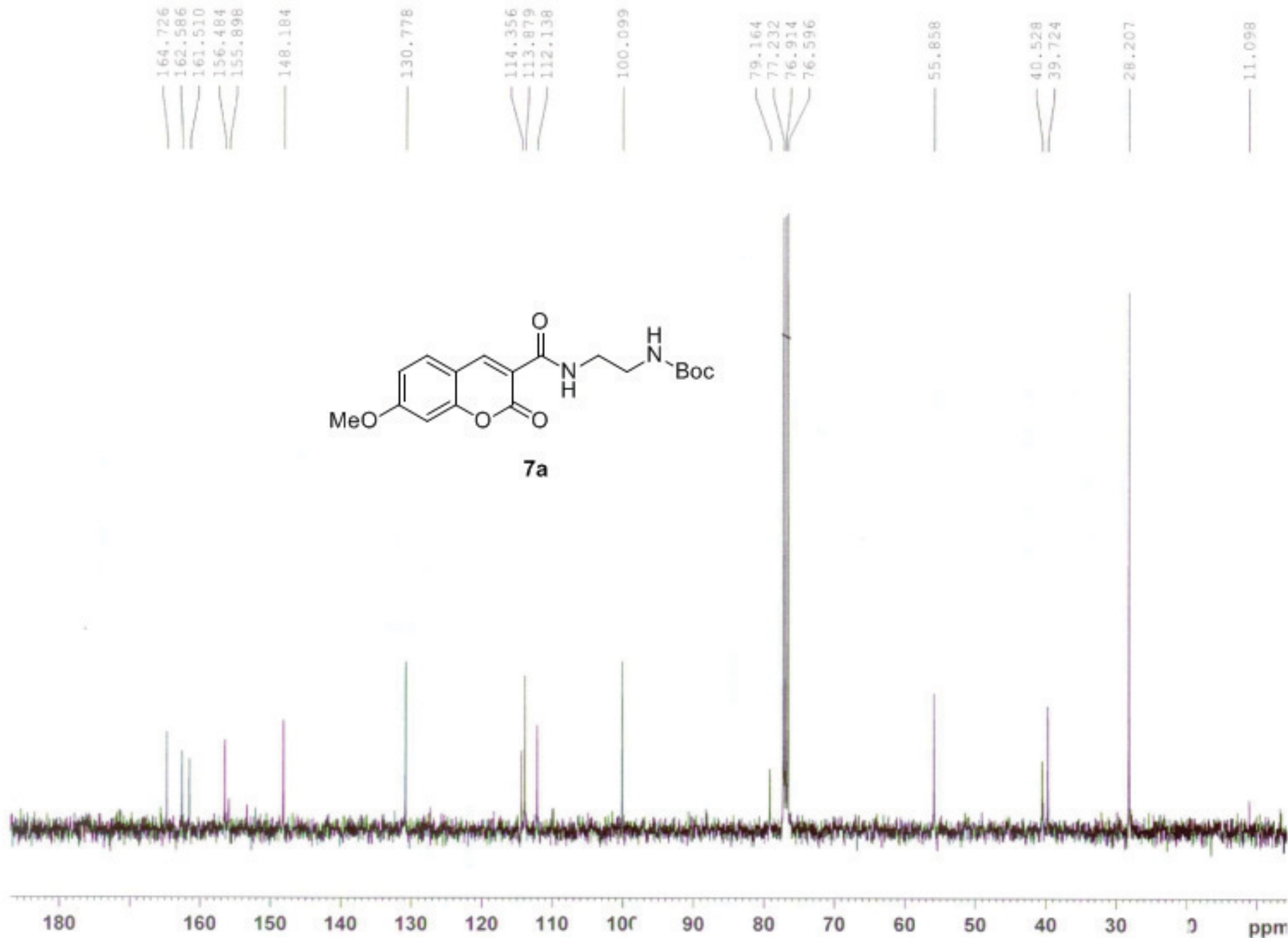
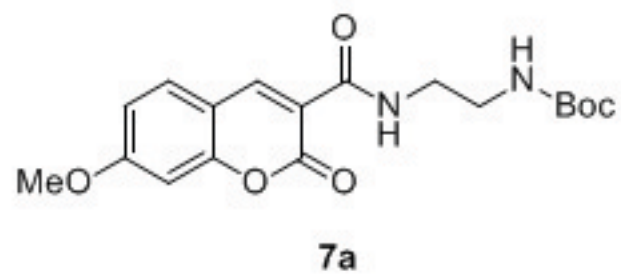


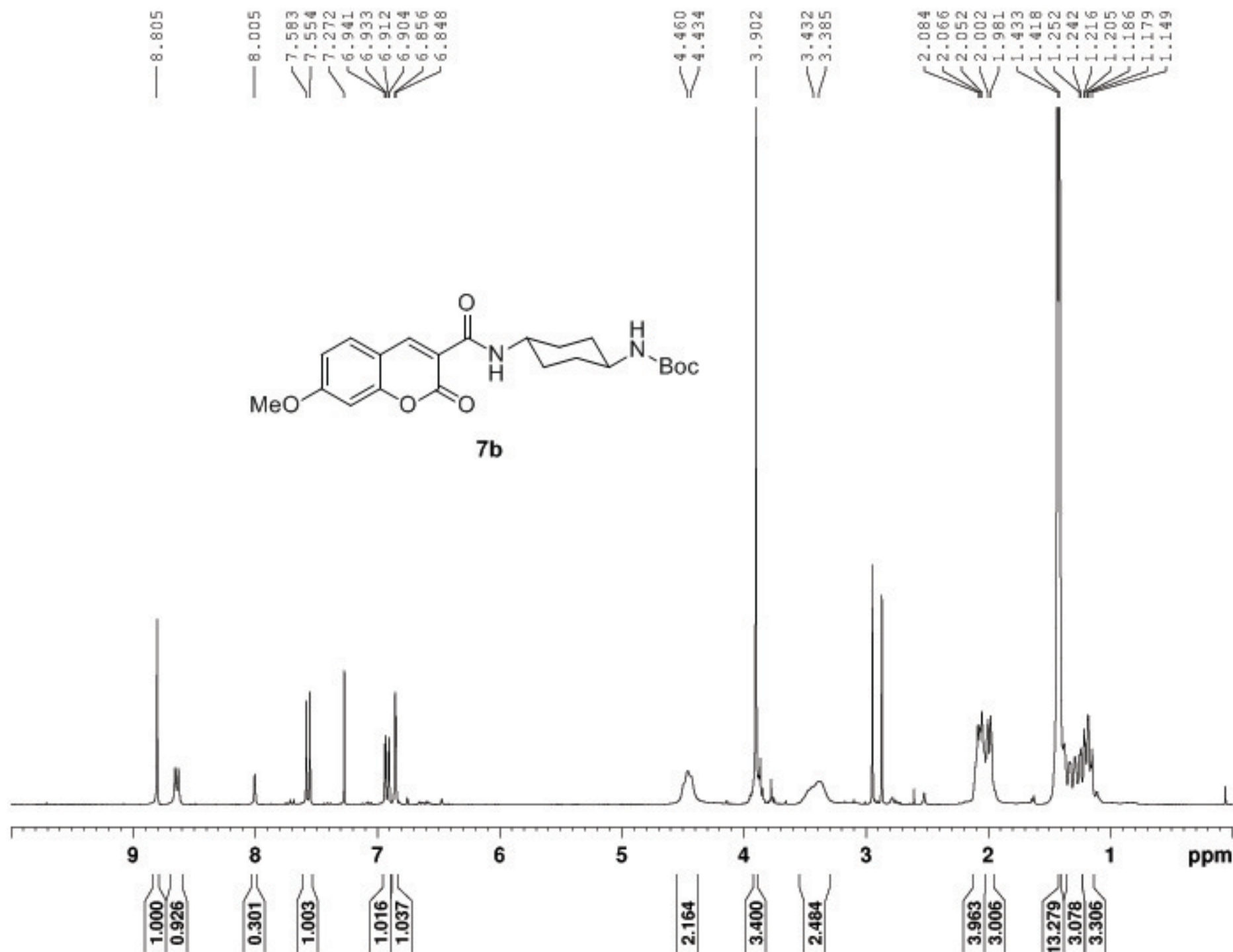


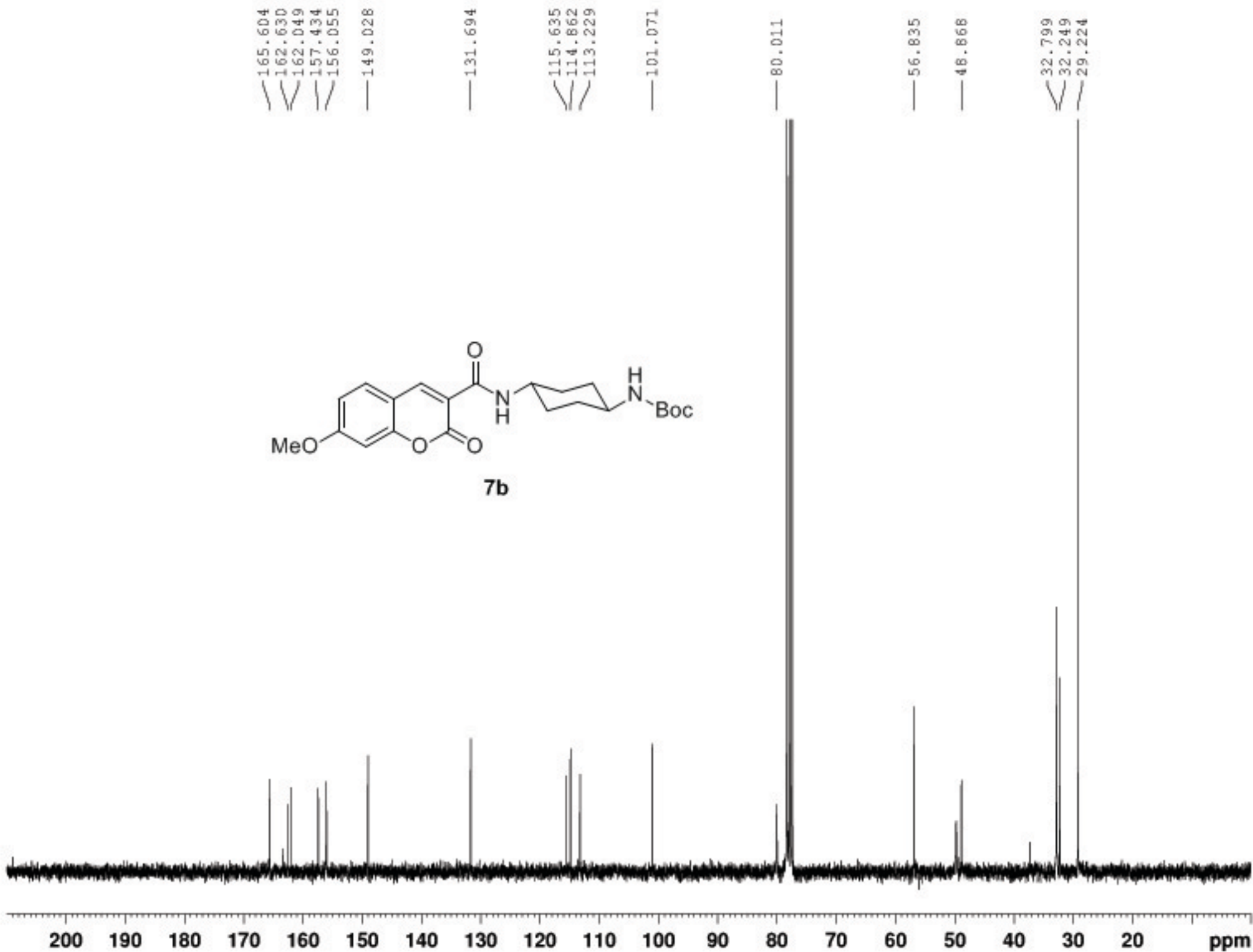
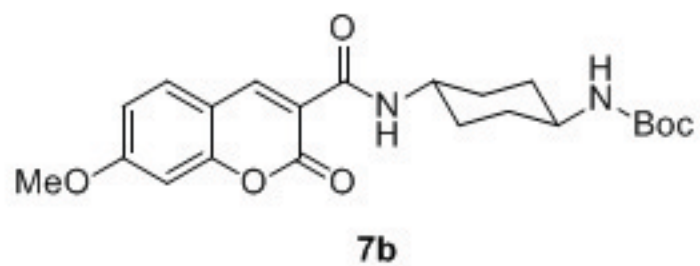


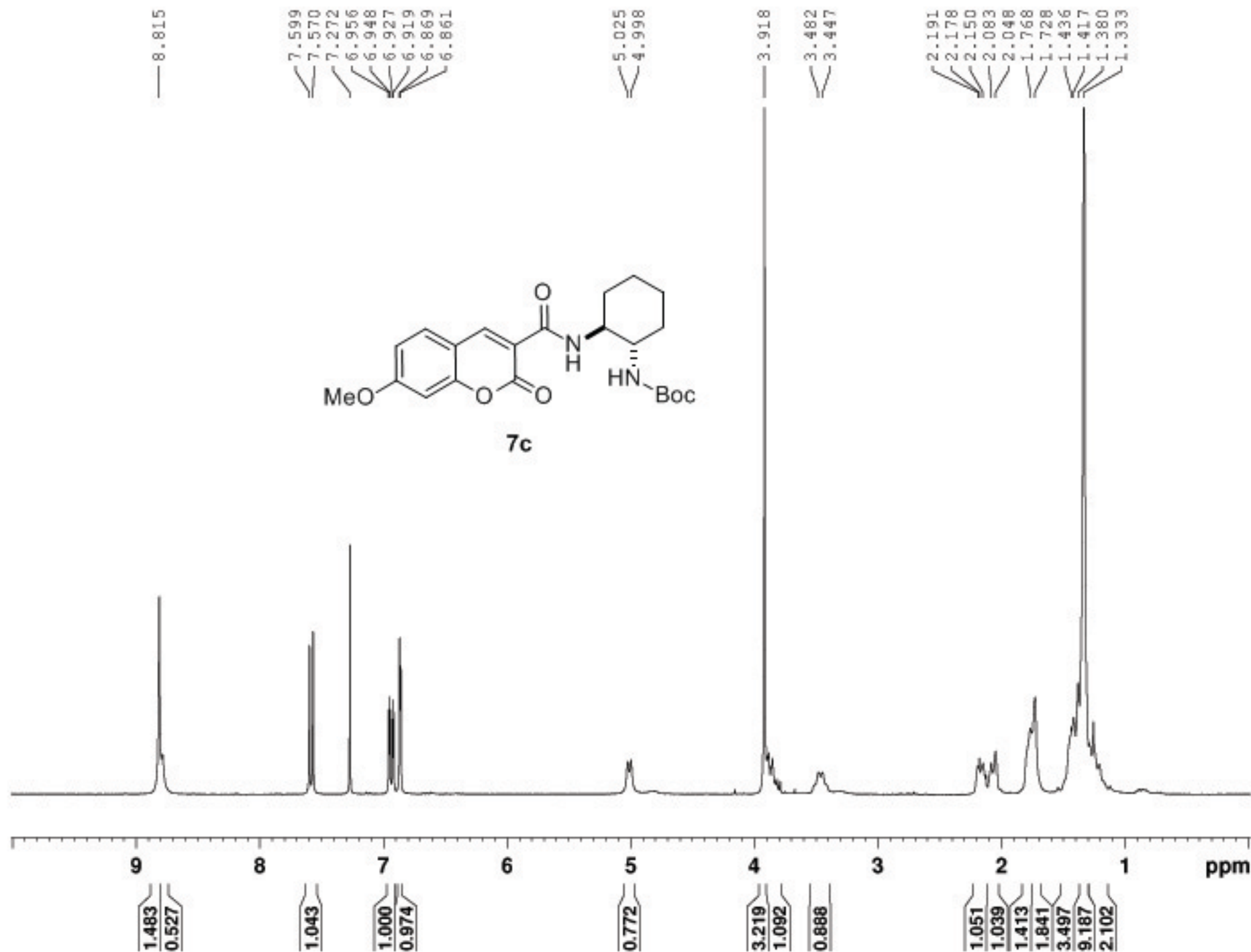












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157.498
156.594

148.955

131.681

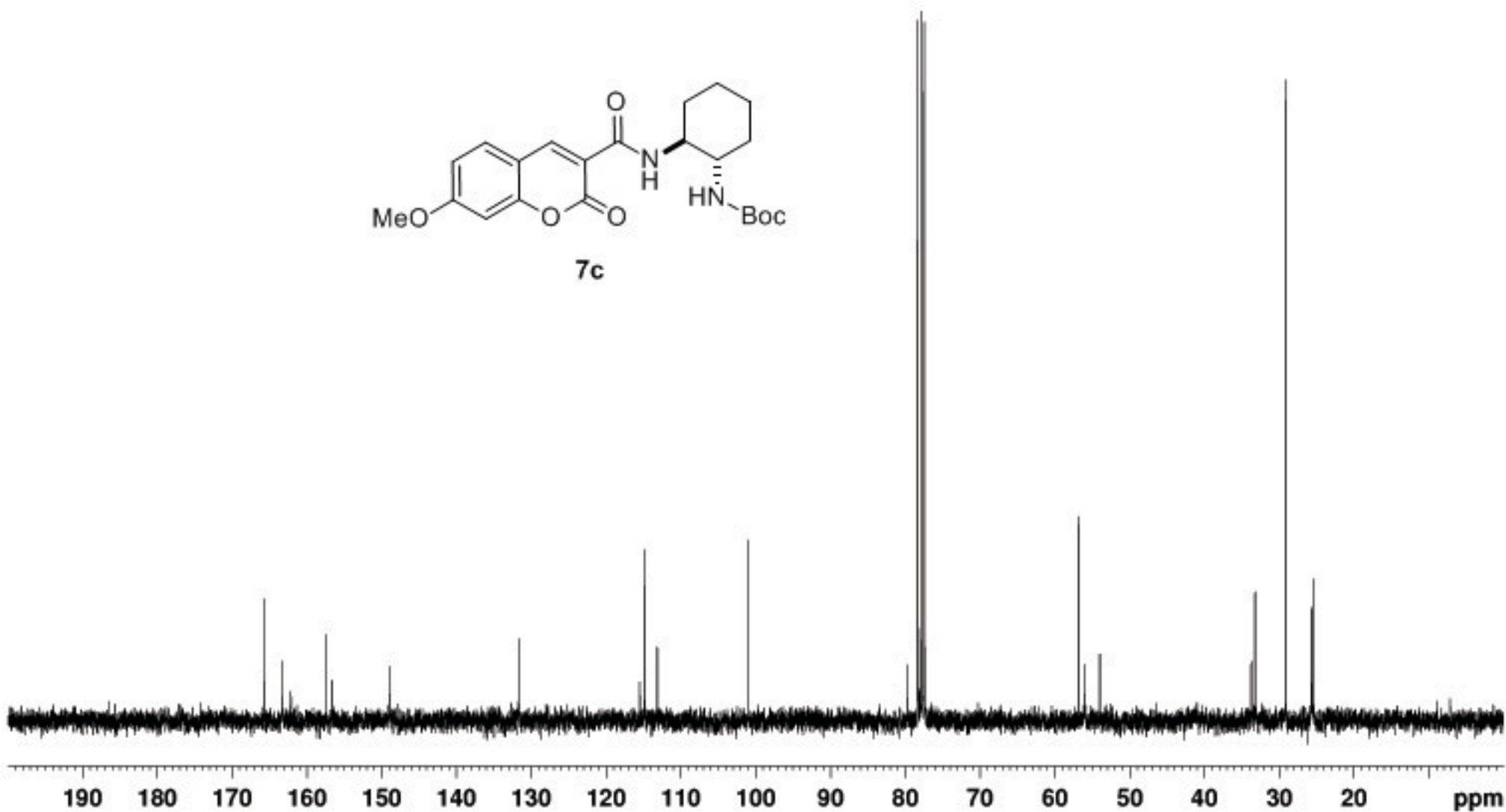
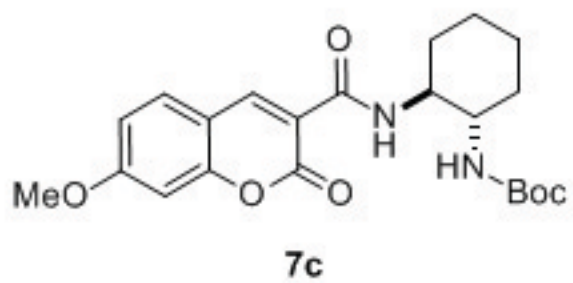
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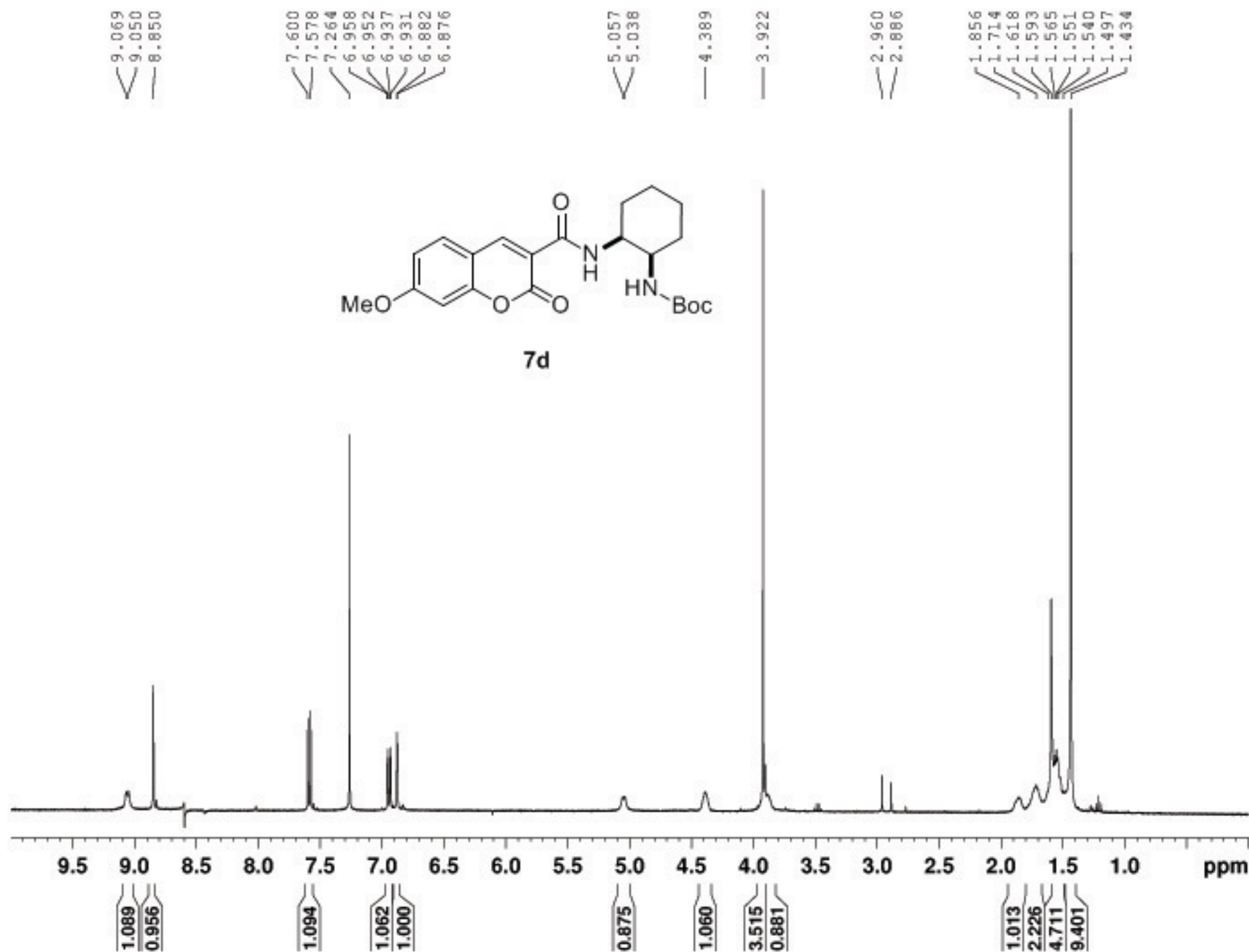
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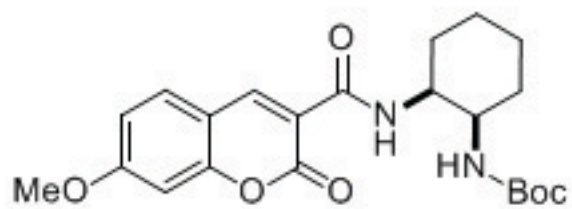
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77.465

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56.056
53.991

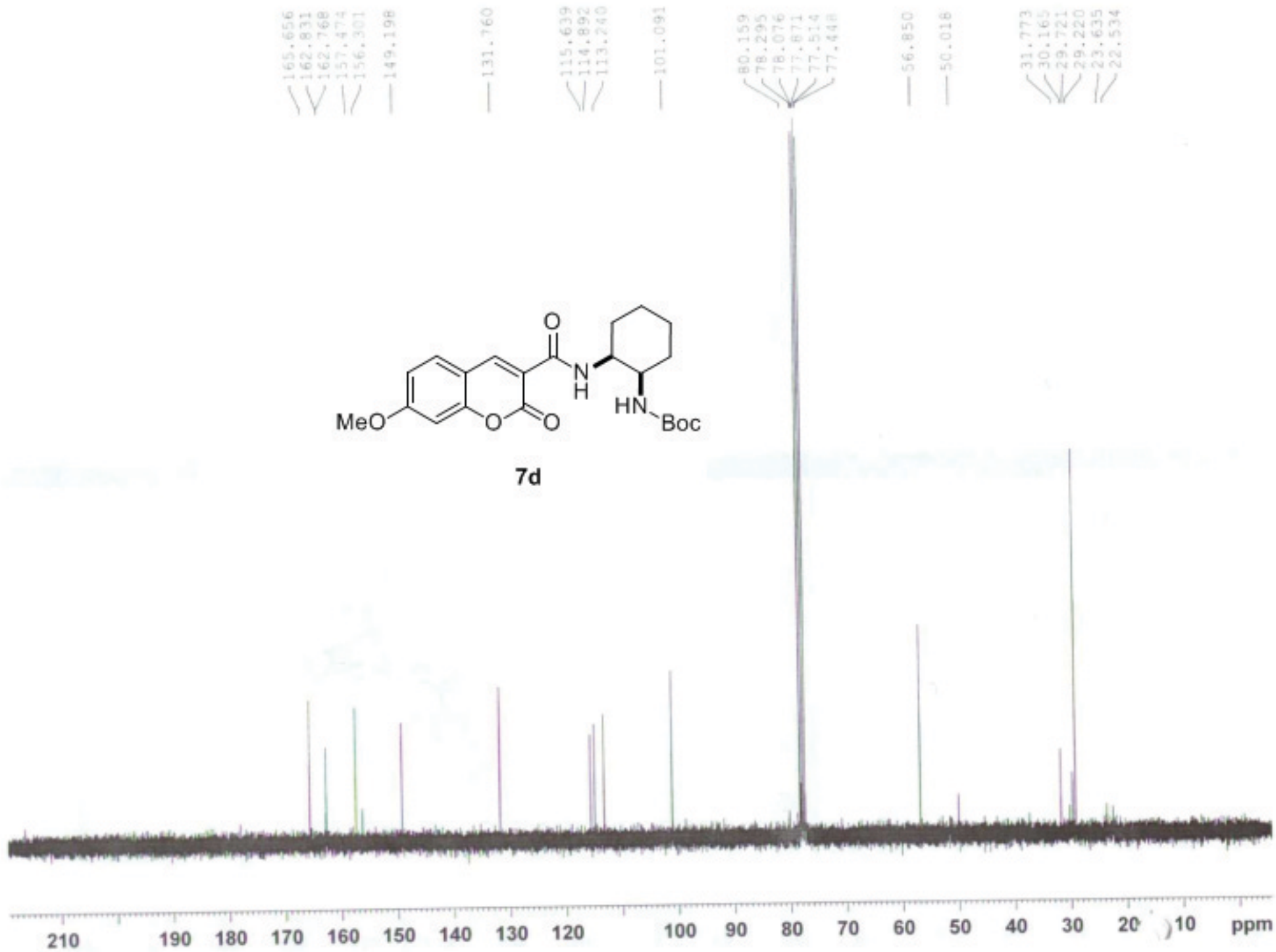
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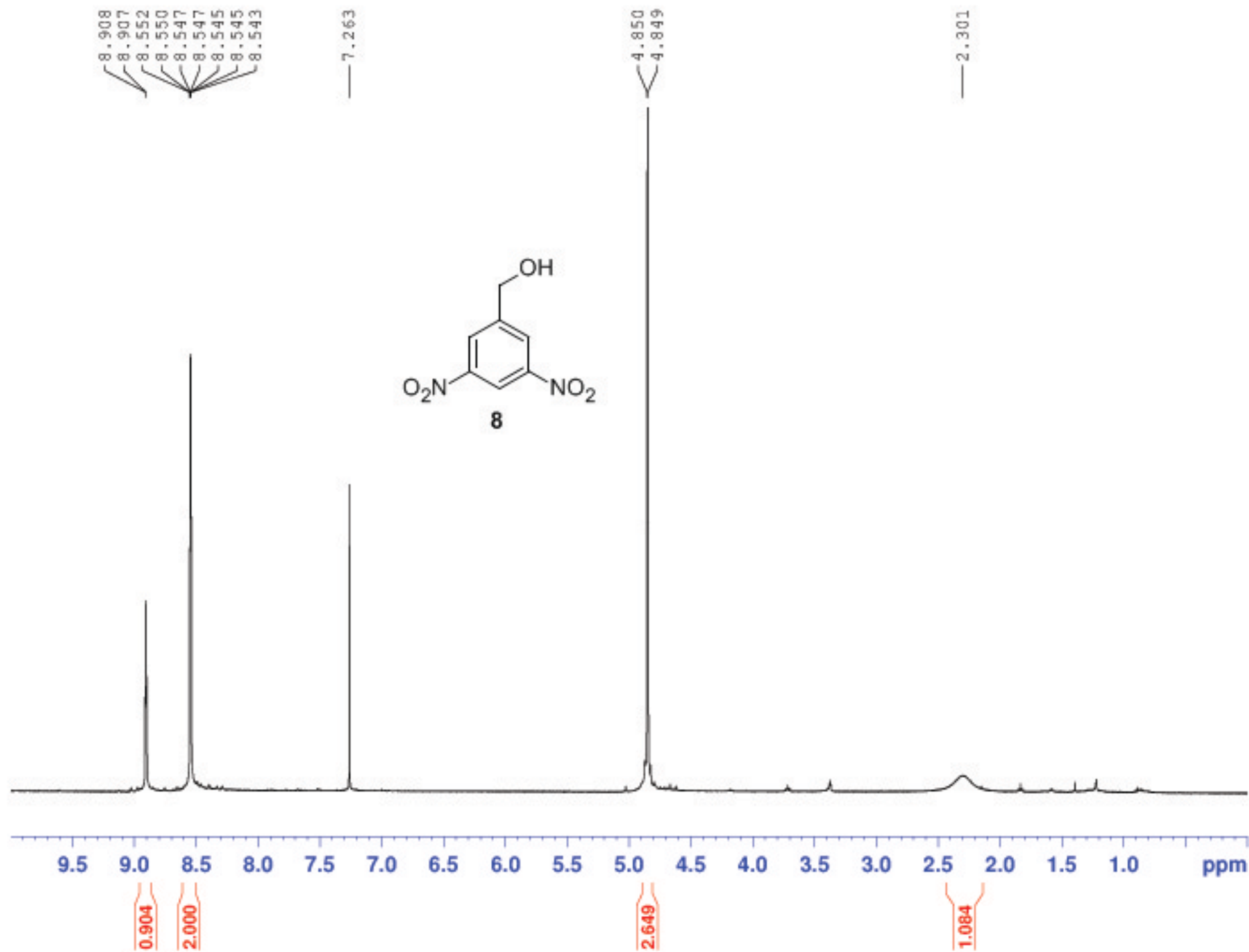






7d



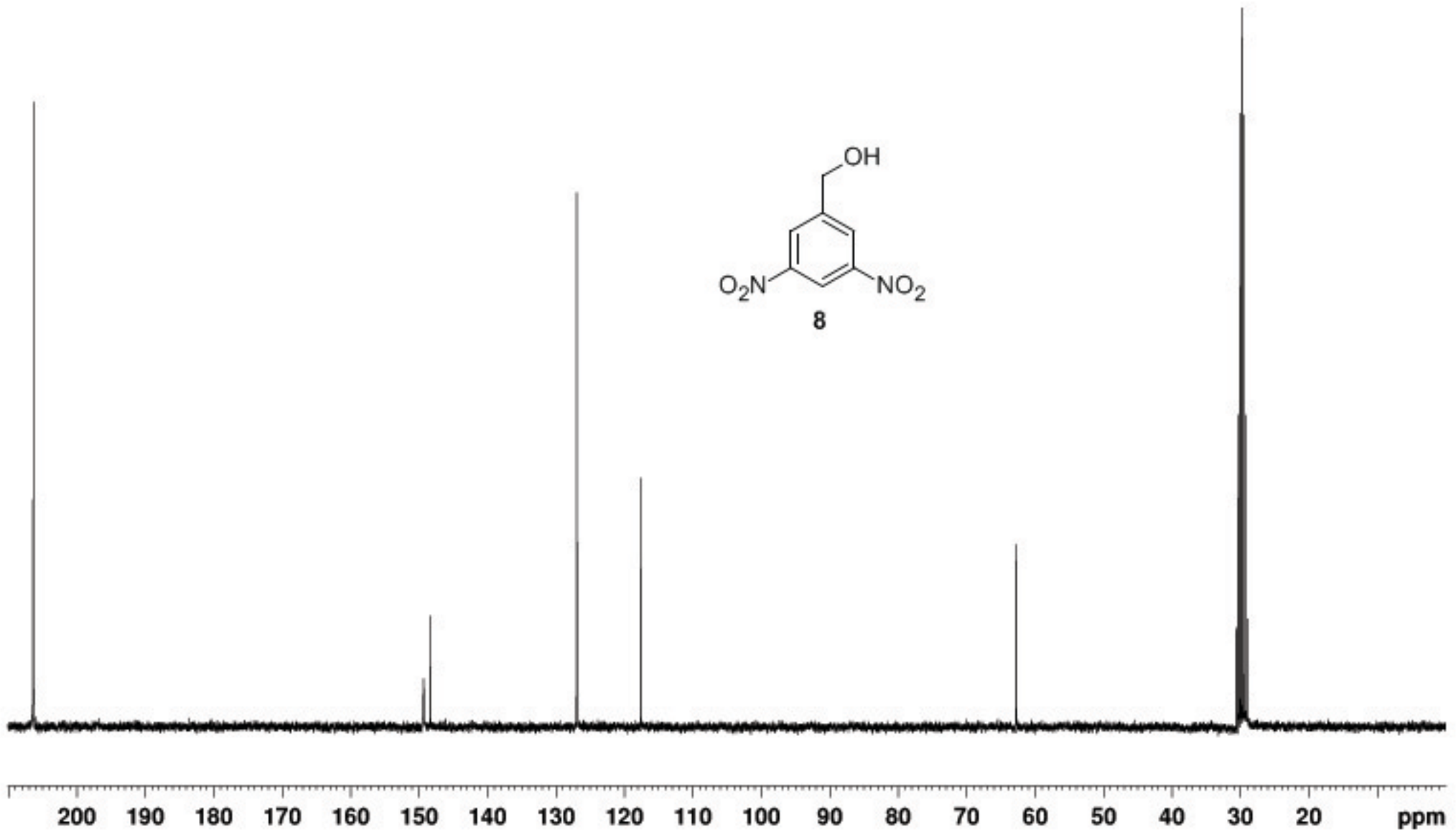
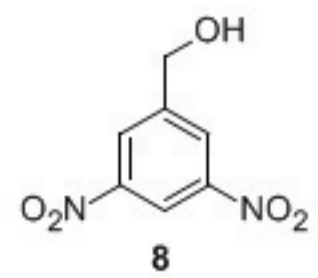


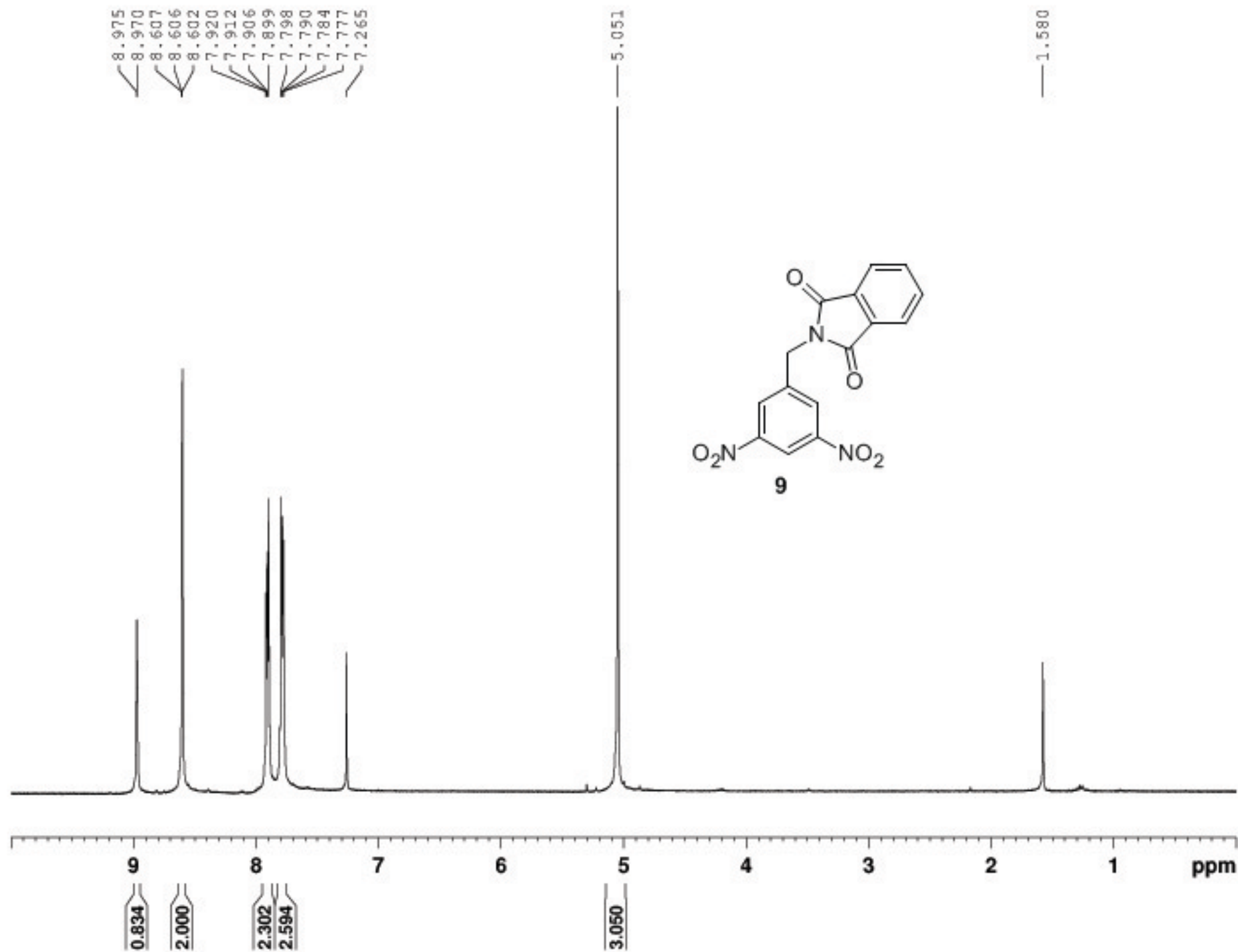
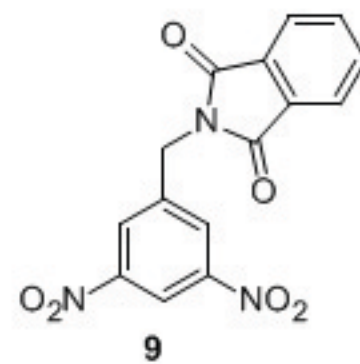
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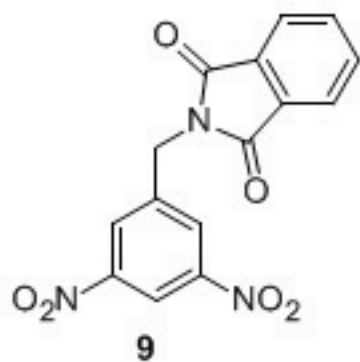
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62.770







— 168.383

— 149.571

— 141.329

— 135.470

— 132.480

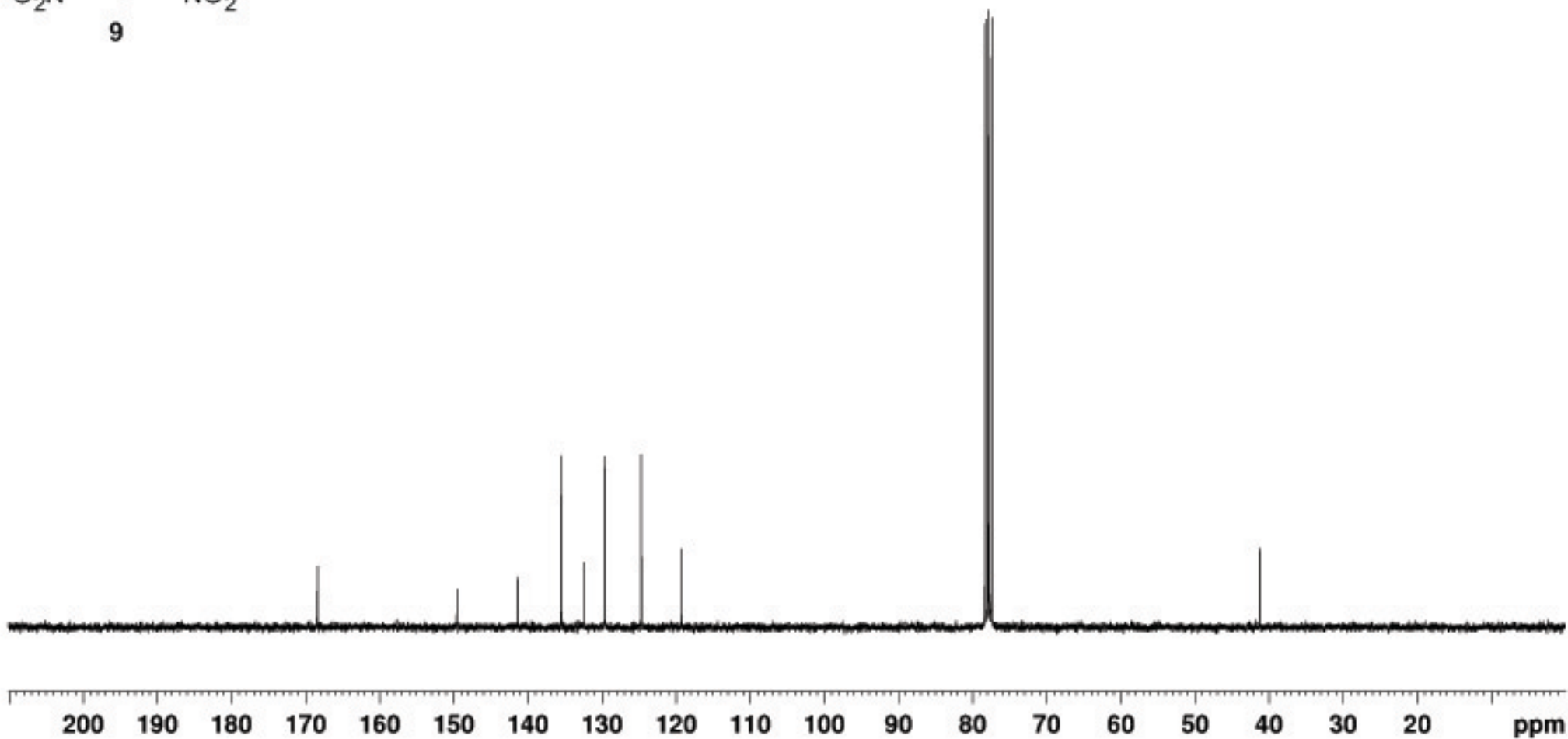
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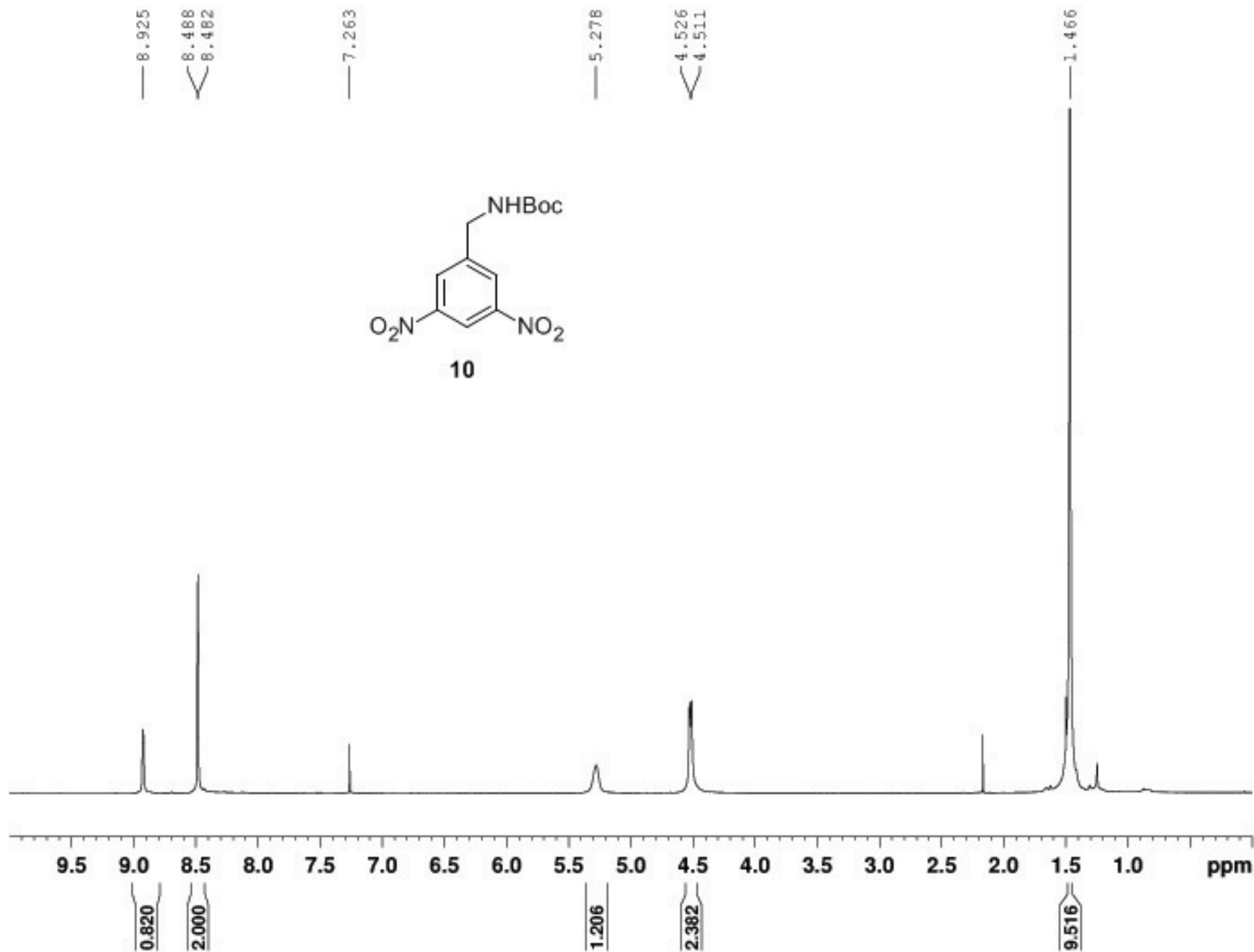
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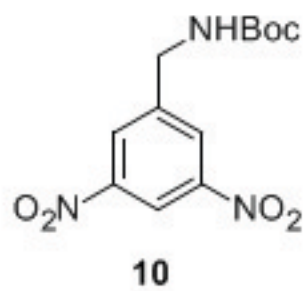
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77.846
77.422

— 41.248





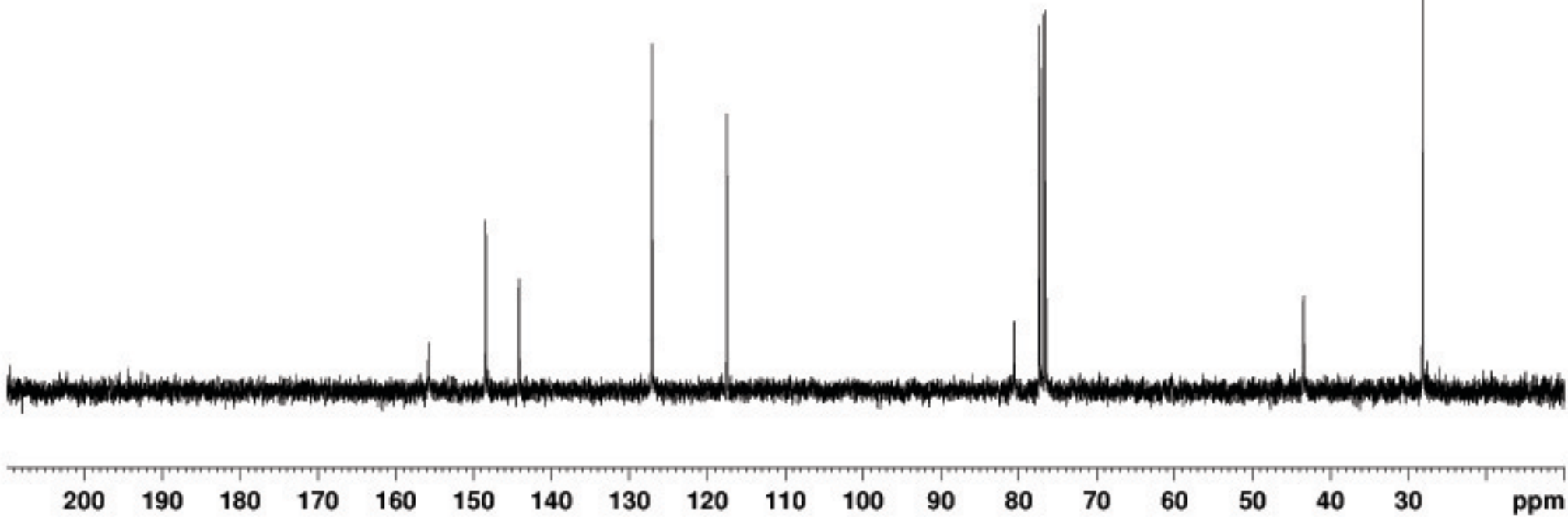


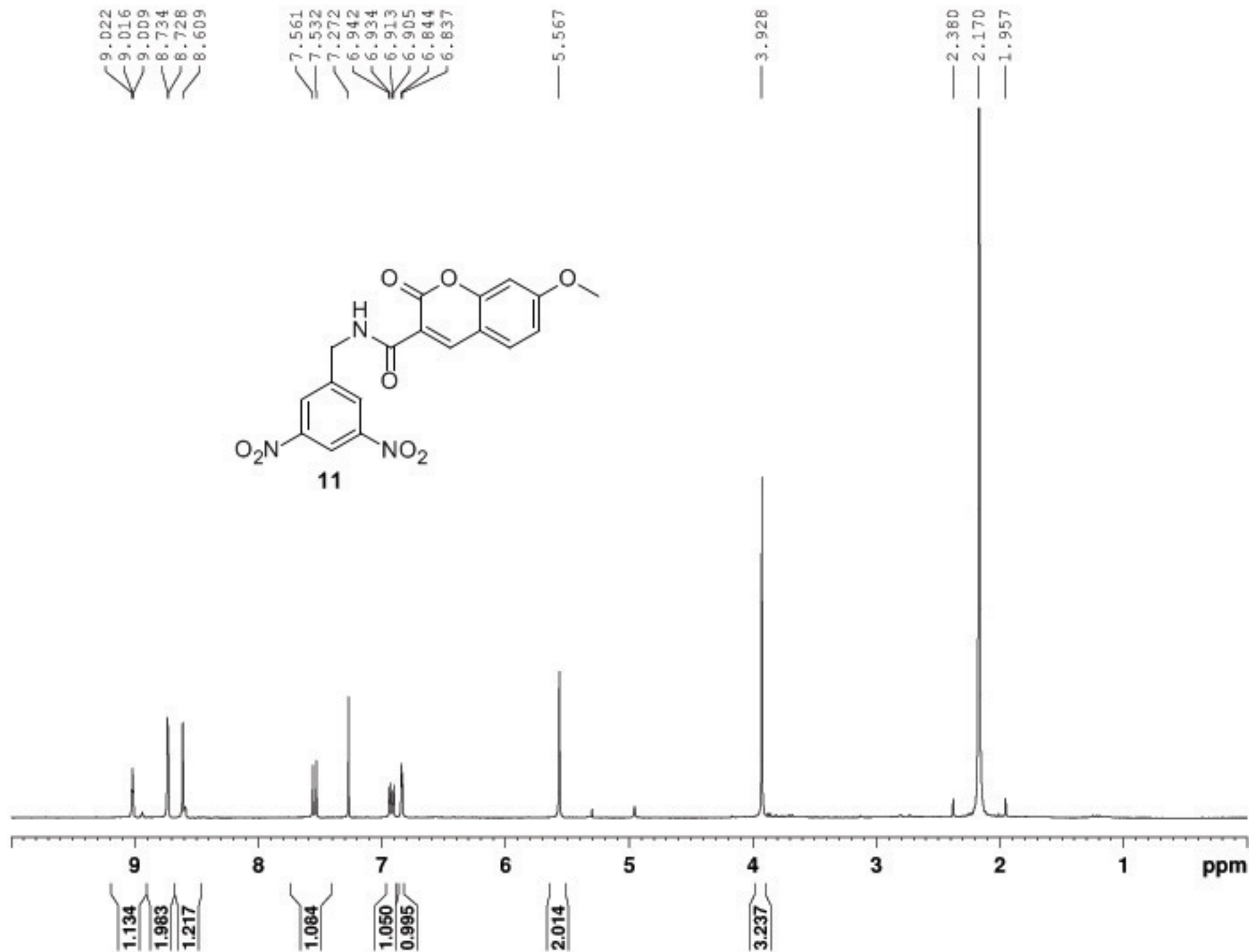
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— 148.438
— 144.155

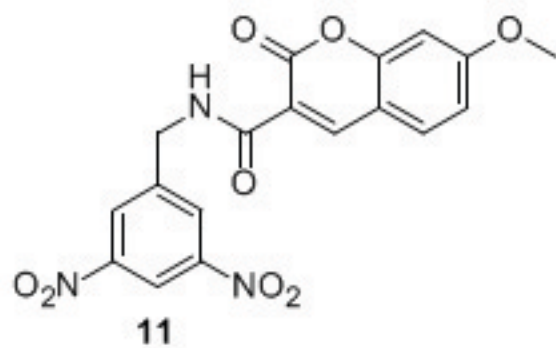
— 127.085
— 117.473

— 80.580

— 43.424
— 28.117



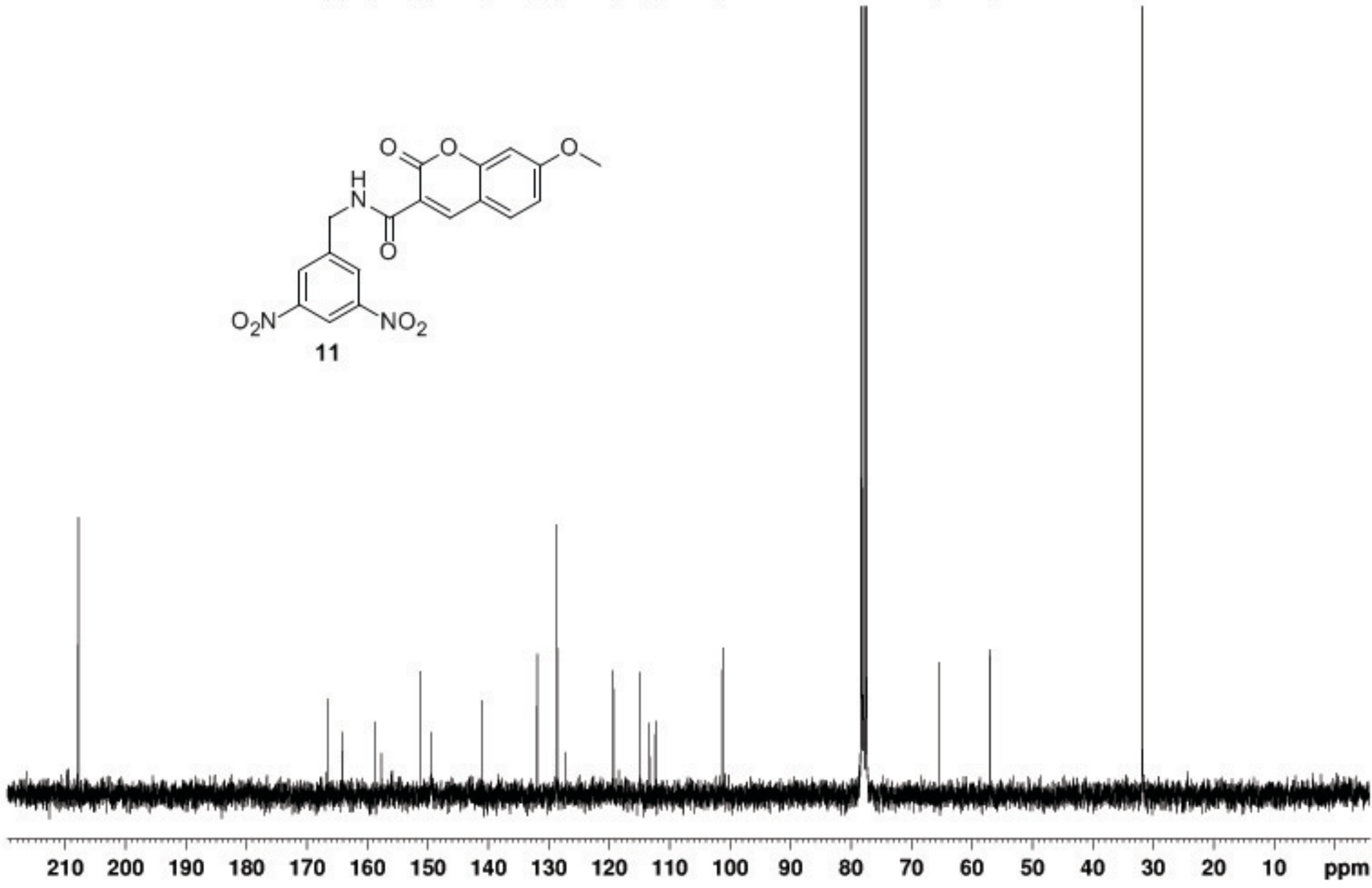




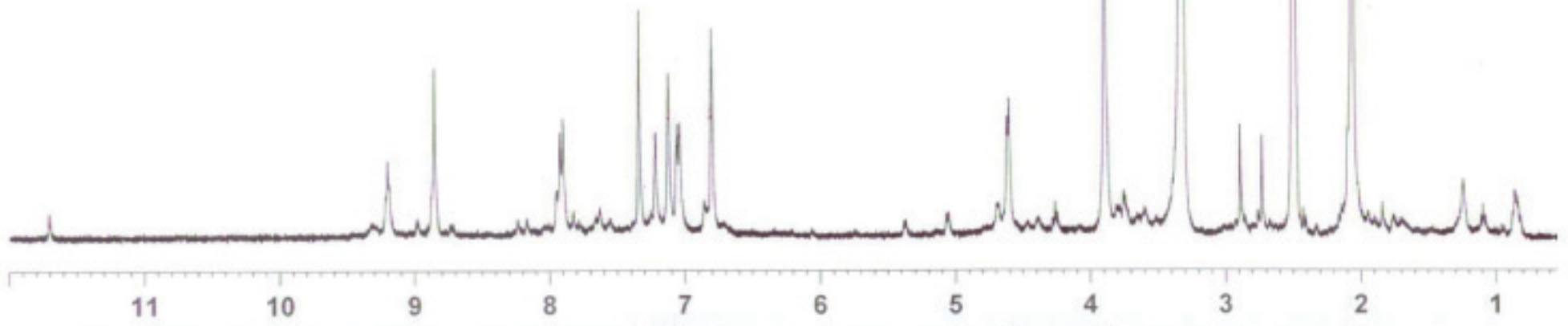
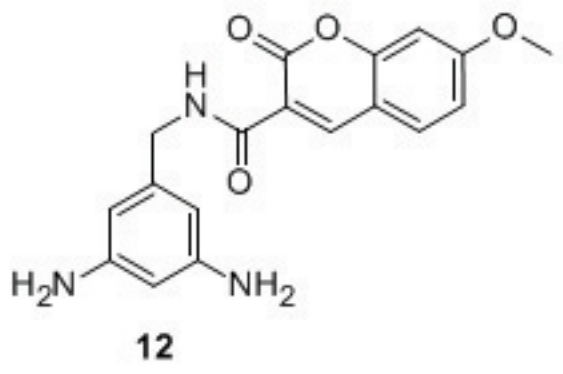
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56.959

31.761



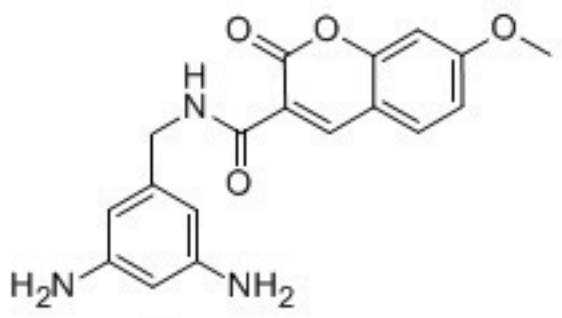
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3.340
2.897
2.737
2.505
2.068
1.246
0.865



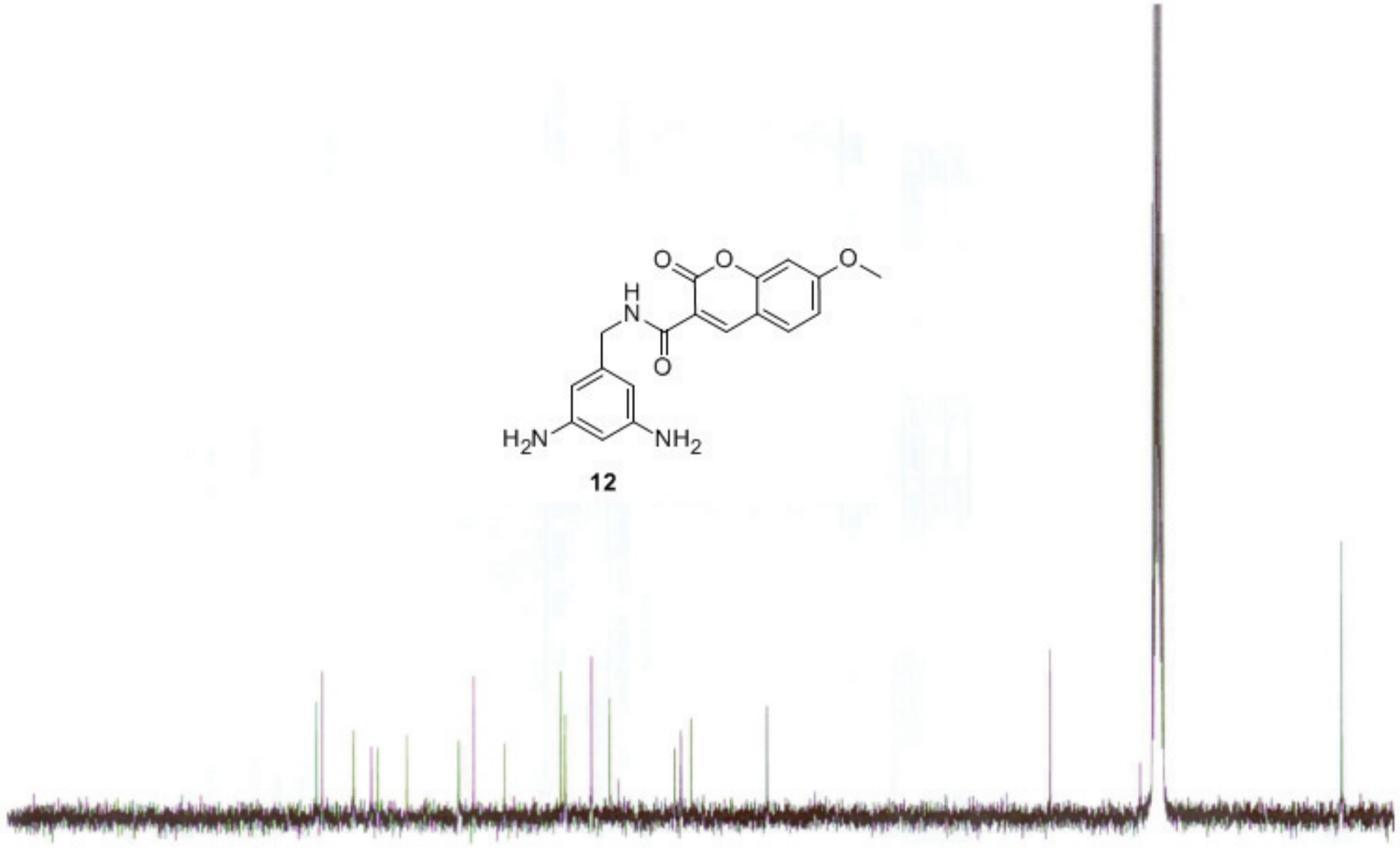
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4.663
6.601

171.595
 170.705
 165.771
 163.018
 161.999
 157.497
 149.416
 147.117
 142.292
 133.551
 132.883
 128.816
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 124.592
 115.949
 114.939
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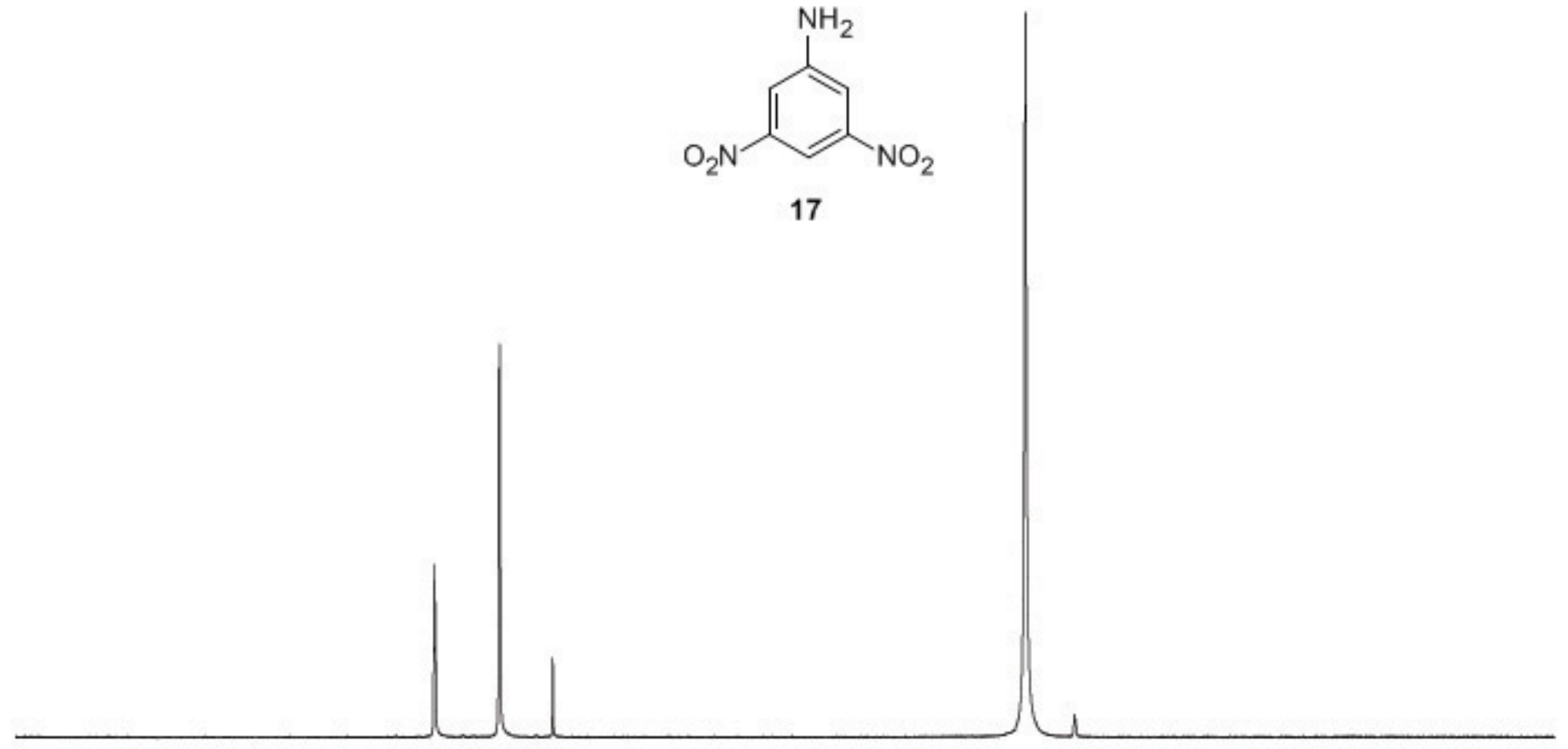
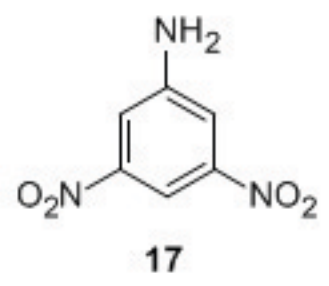
12



210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 ppm

8.143
8.136
8.130
7.646
7.640
7.237

3.634



11 10 9 8 7 6 5 4 3 2 1 ppm

1.000

2.204

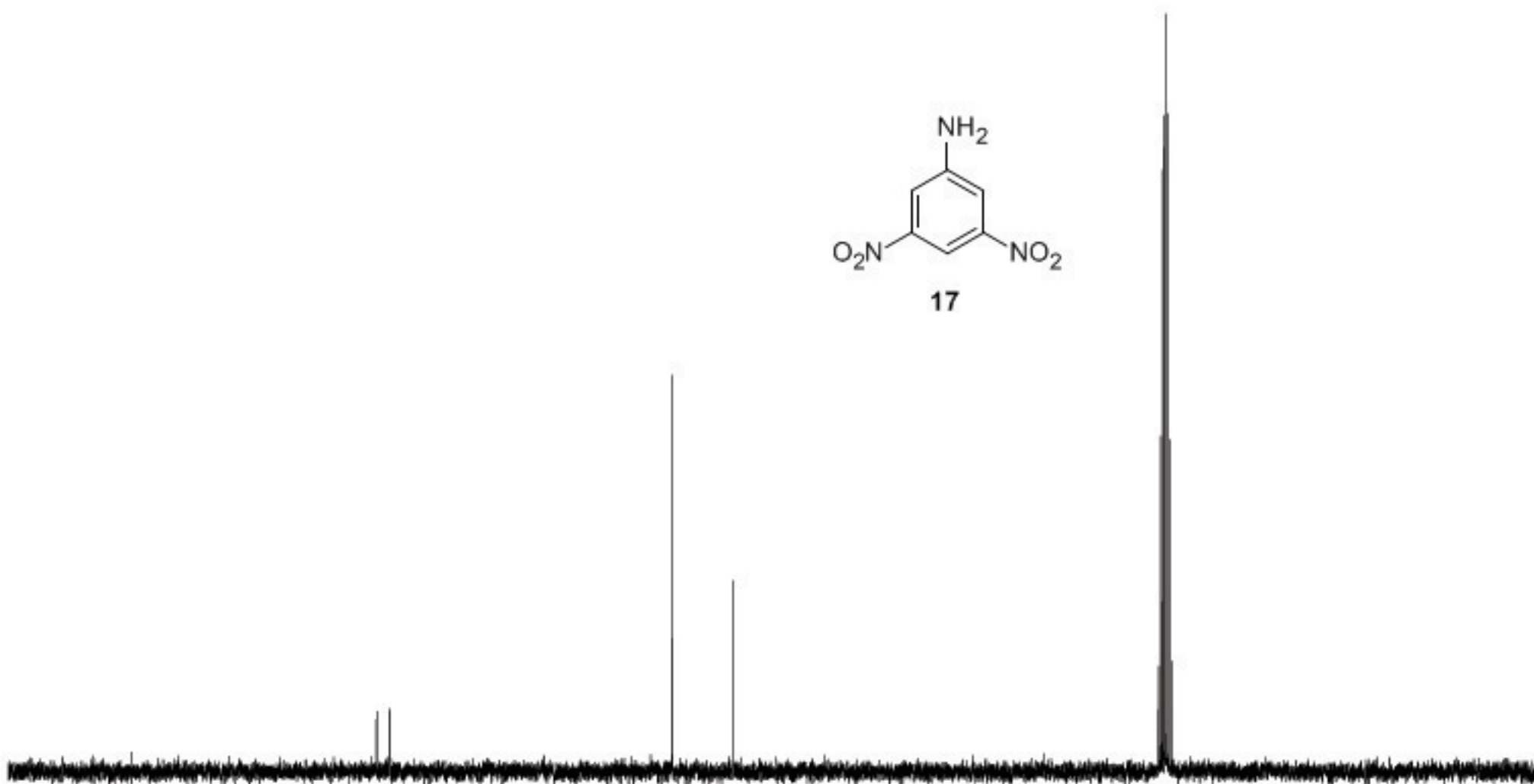
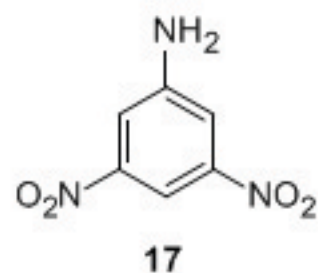
7.792

151.869
150.135

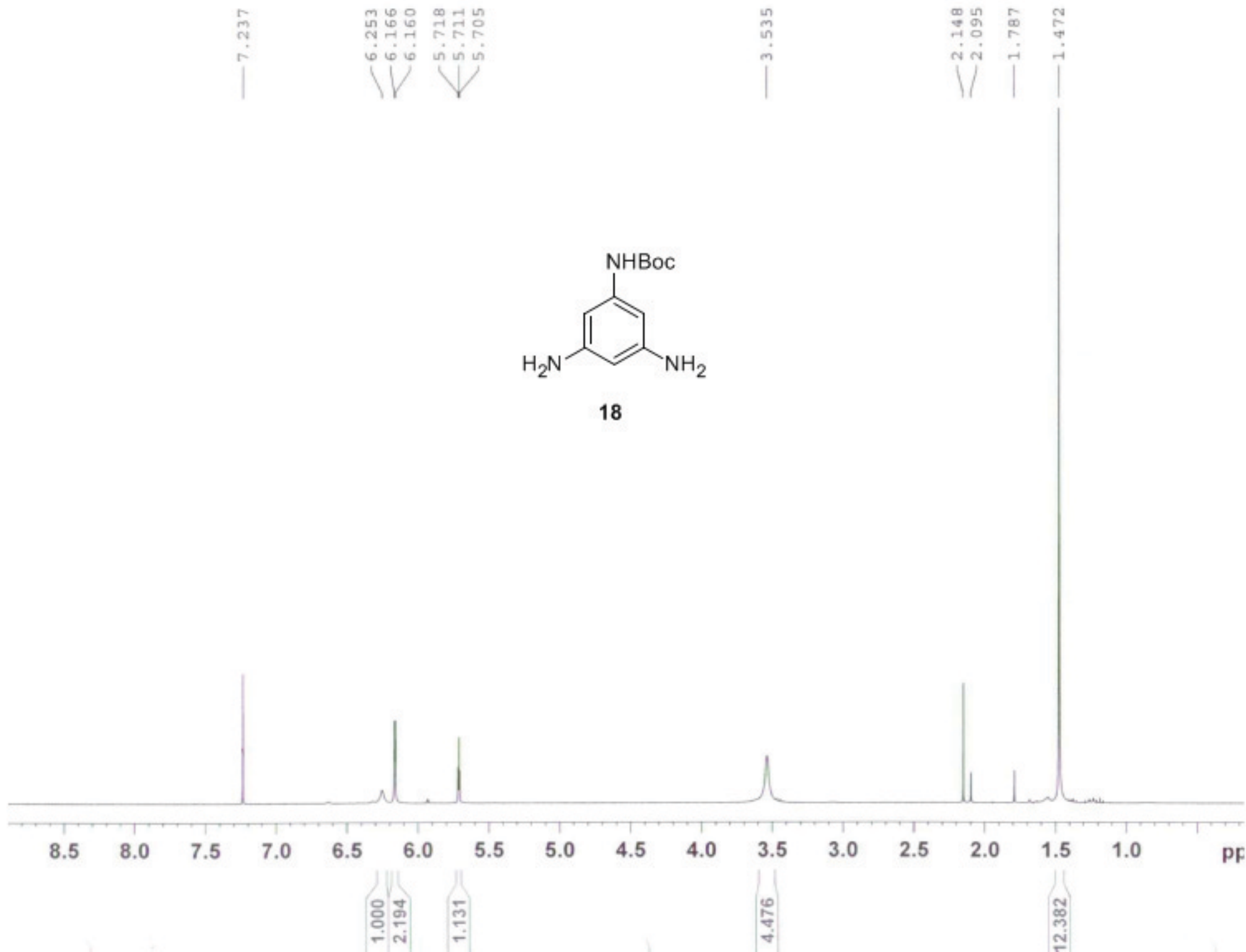
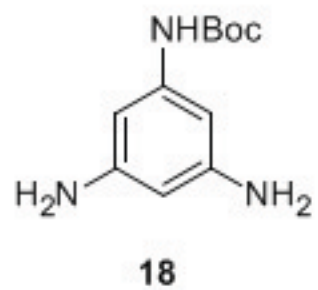
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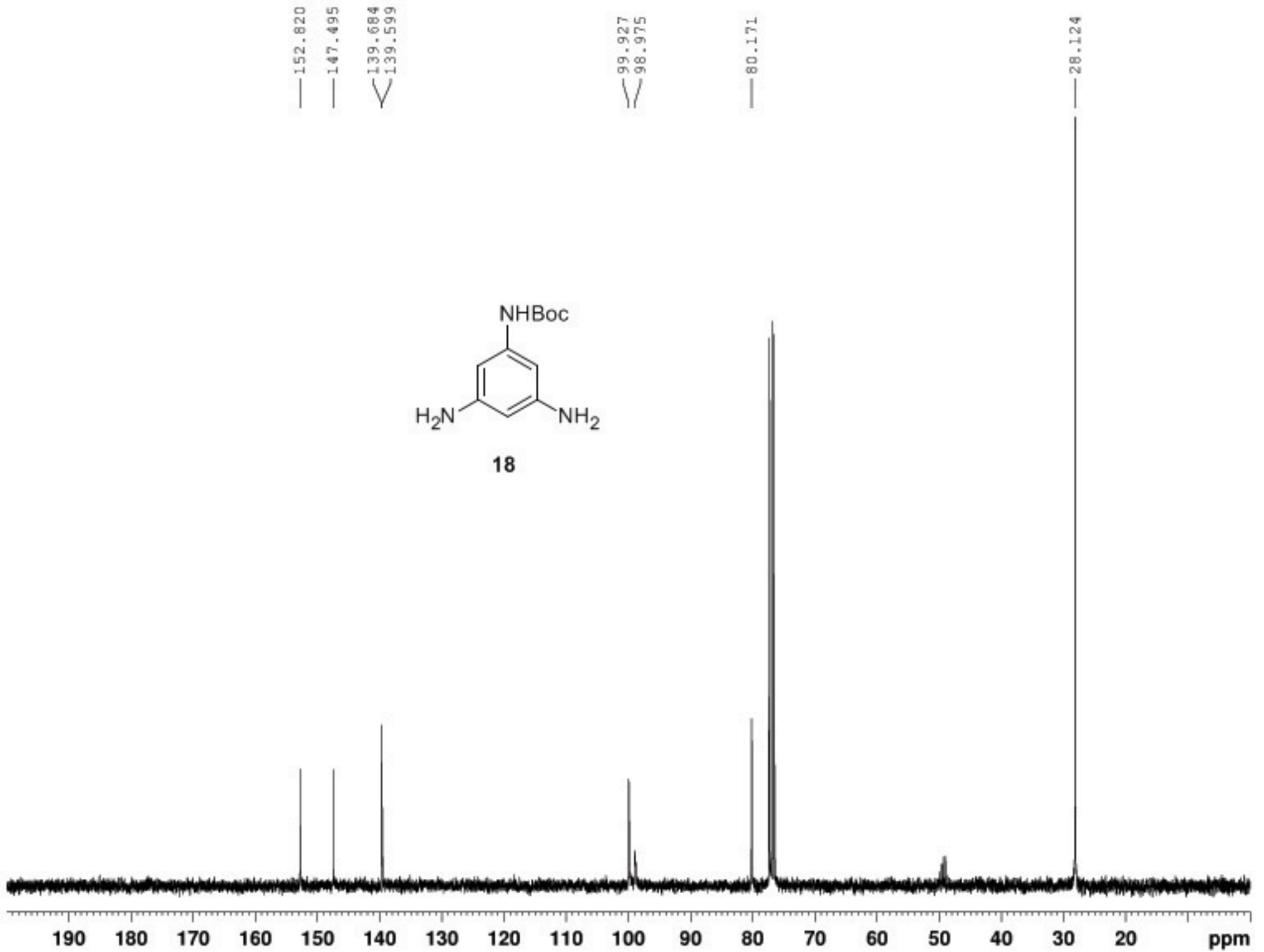
105.202

48.719
48.435
48.151



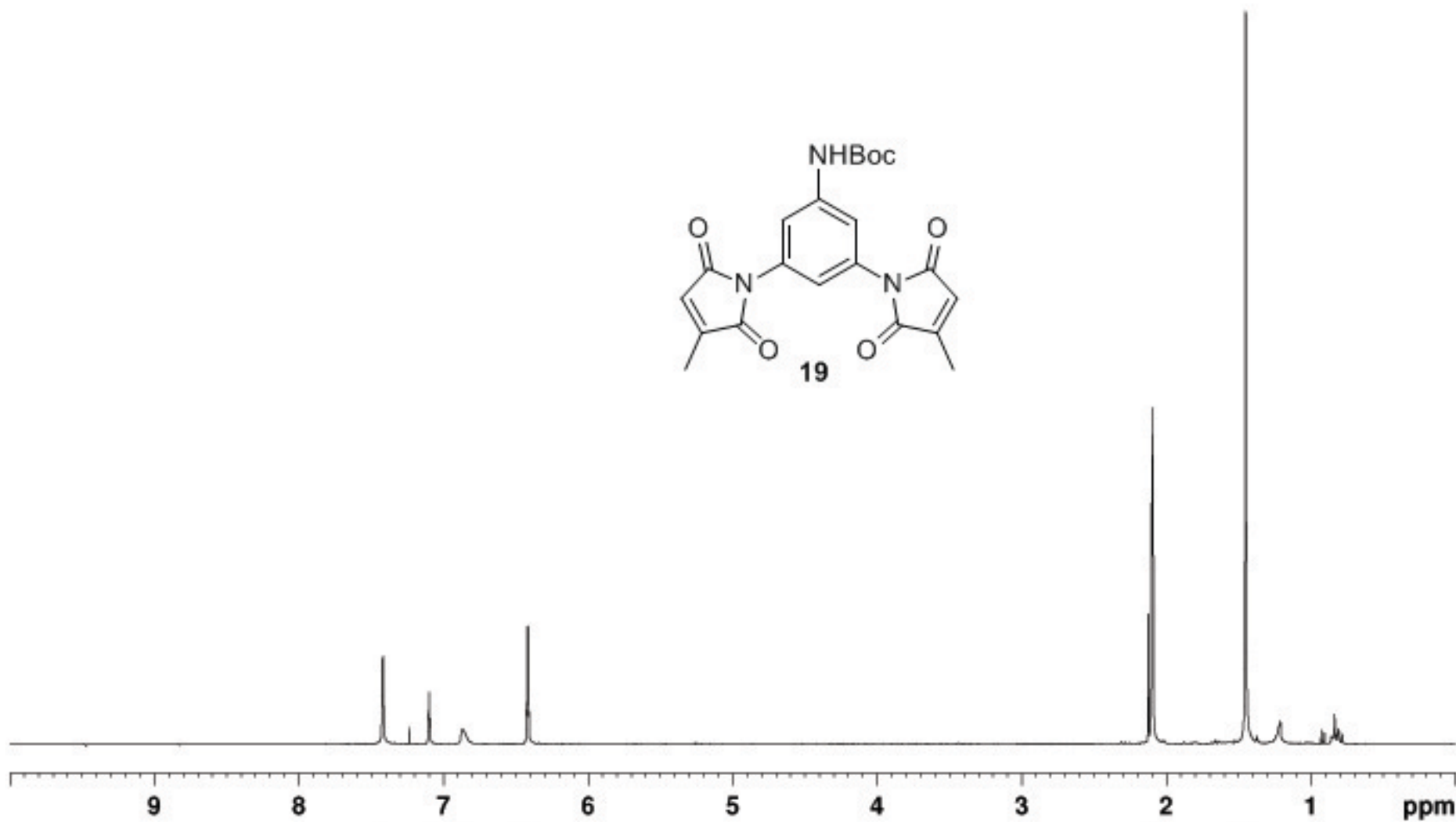
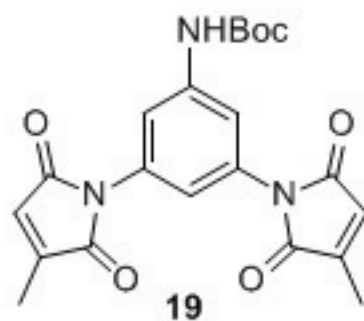
190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 ppm





7.424
7.418
7.105
7.099
7.093
6.427
6.423
6.421
6.417
6.415
6.409

2.126
2.123
2.123
2.098
2.093
1.450
0.835



2.044
0.890
1.013
2.000

6.665
10.338

169.972
168.896

152.173

145.724

139.466

132.486

127.353

116.516

114.062

80.864

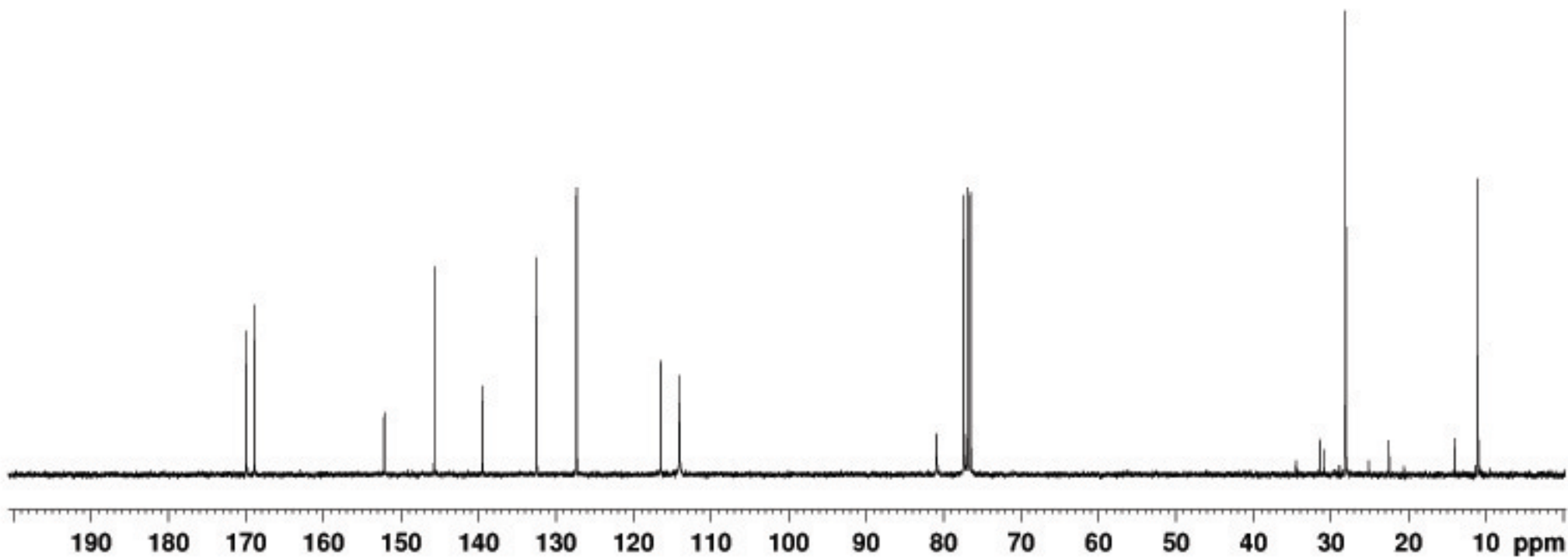
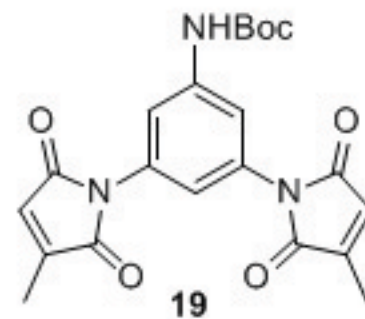
77.364

76.940

76.516

28.118

10.996



— 11.083

