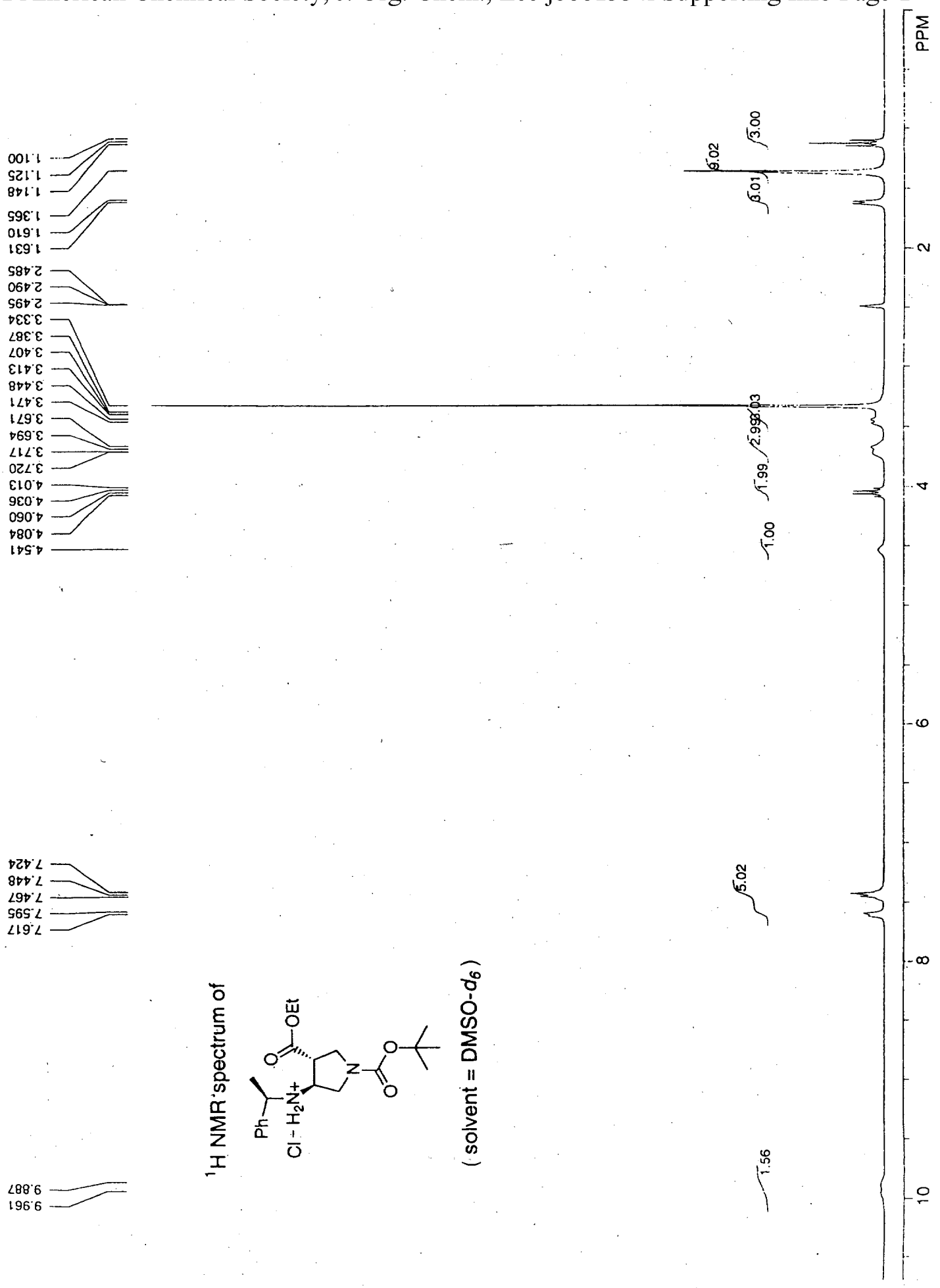
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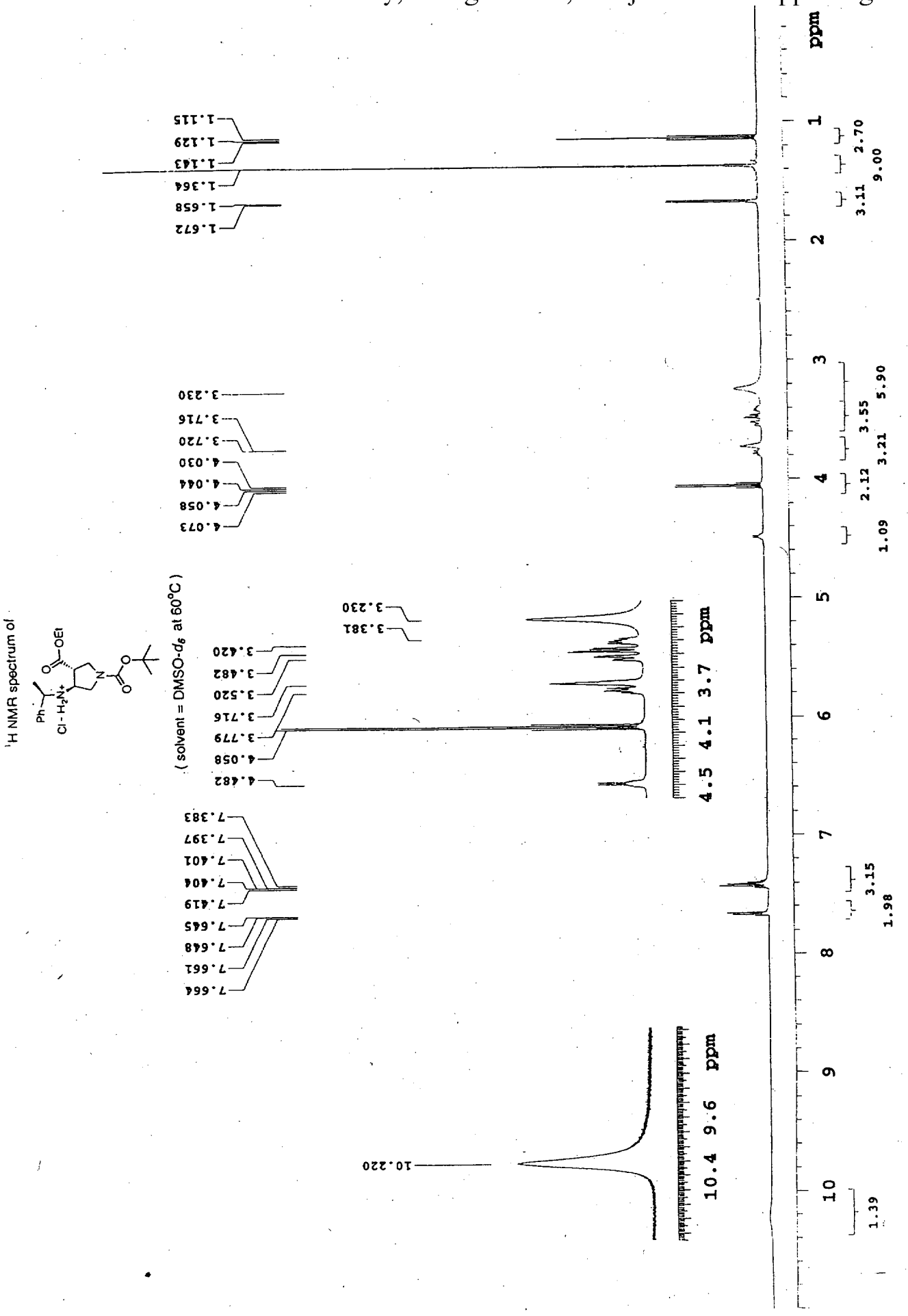


^{1}H NMR spectrum of

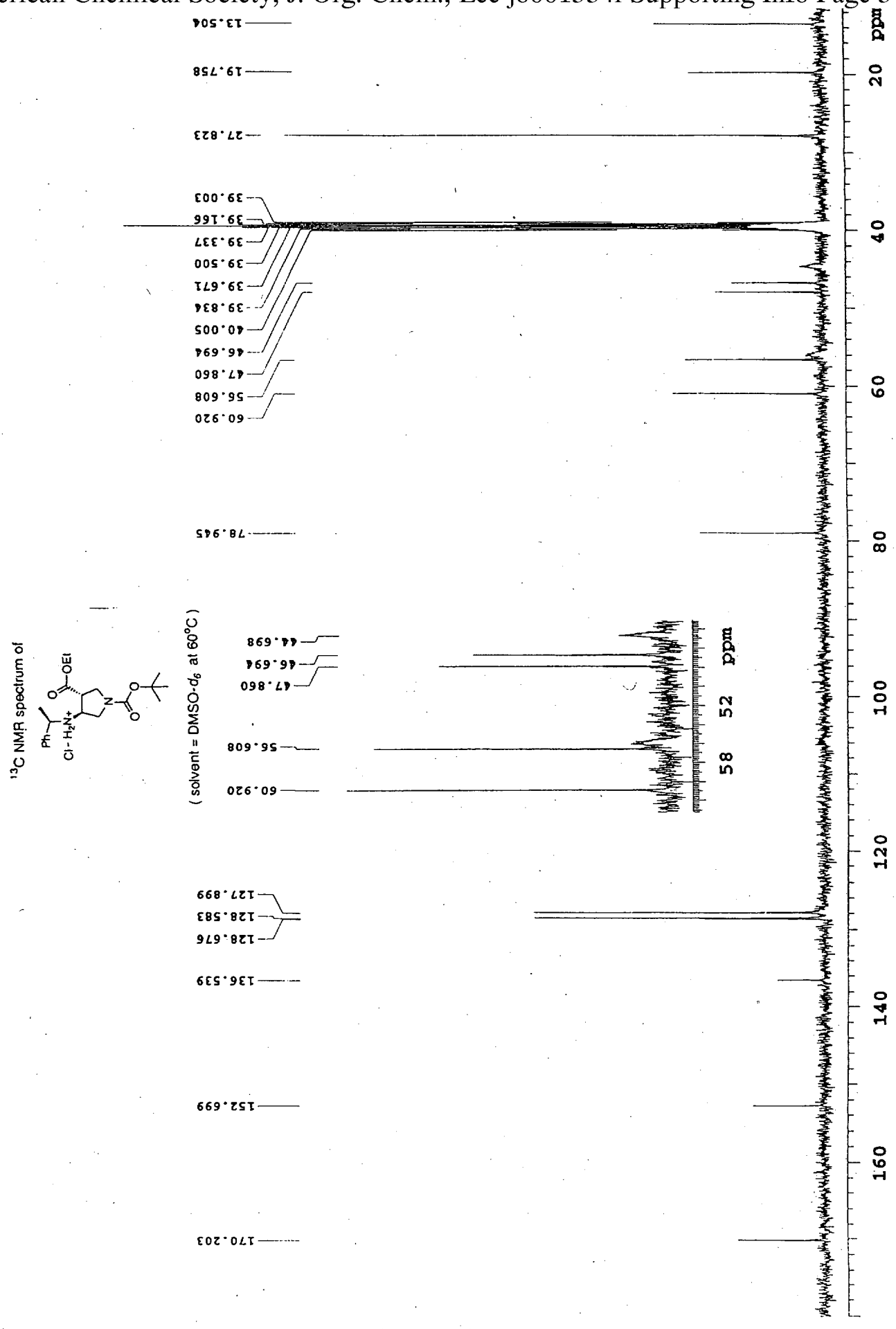
(solvent = DMSO-d_6)

15

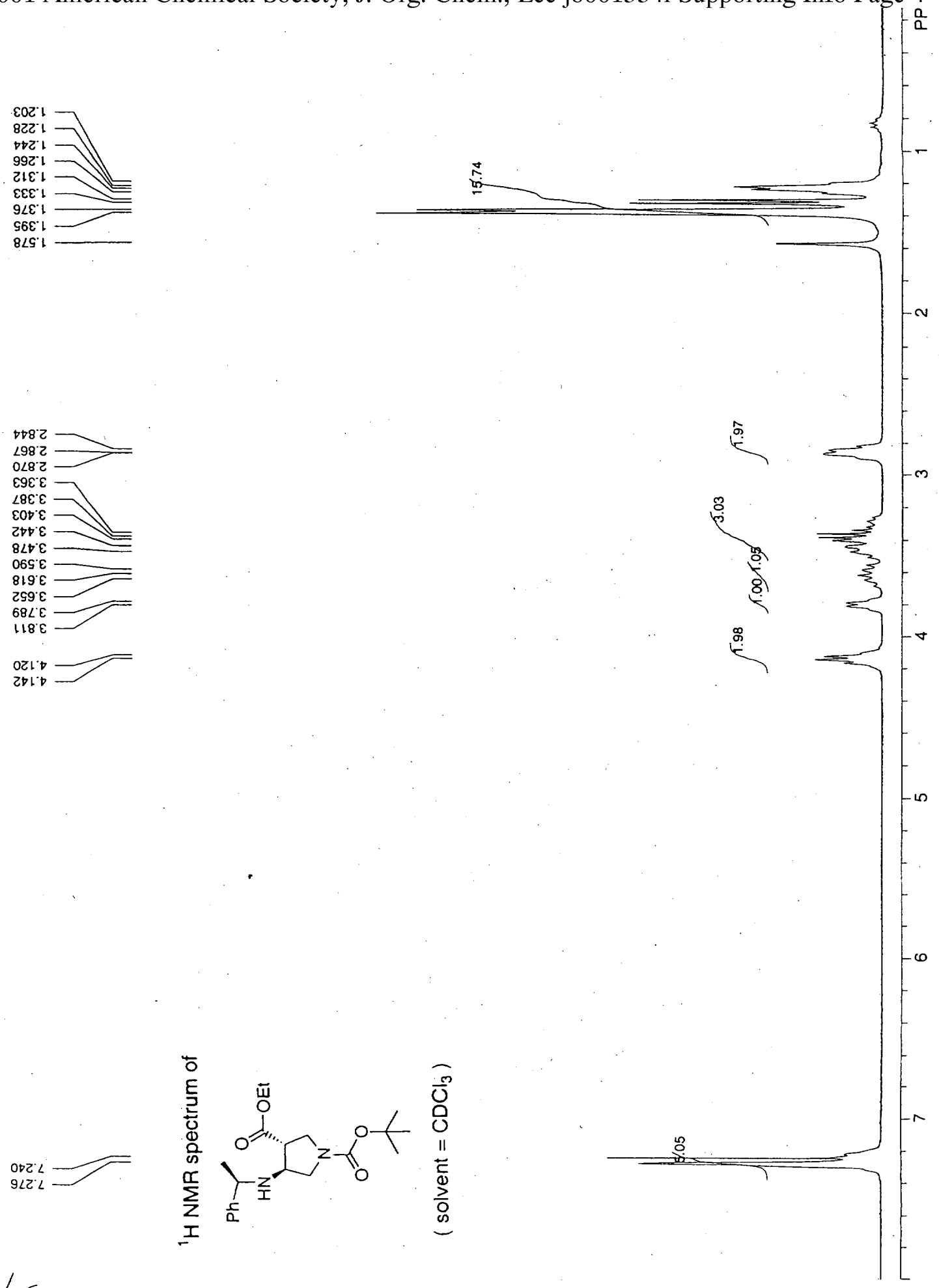
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25


13.504
19.758
27.823
39.003
39.166
39.337
39.500
39.671
39.834
40.005
46.694
47.860
56.608
60.920
78.945
ppm
20
40
60
80
100
120
140
160
(solvent = DMSO-d_6 at 60°C)
^{13}C NMR spectrum of
OEt
Ph
Cl - H_2N^+
44.698
46.694
47.860
56.608
60.920
58 52 ppm
127.899
128.583
128.676
136.539
152.699
170.203

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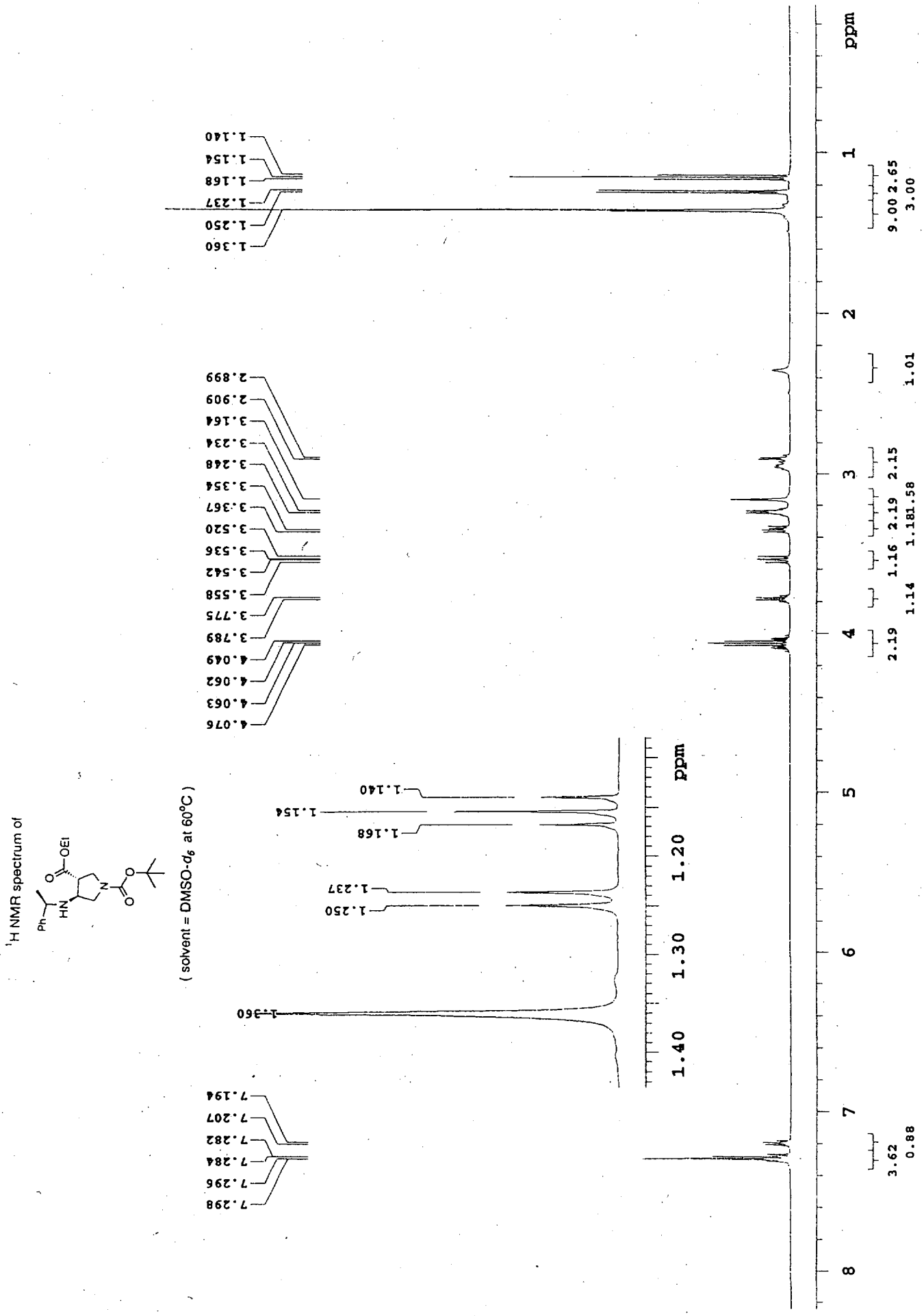


^{1}H NMR spectrum of

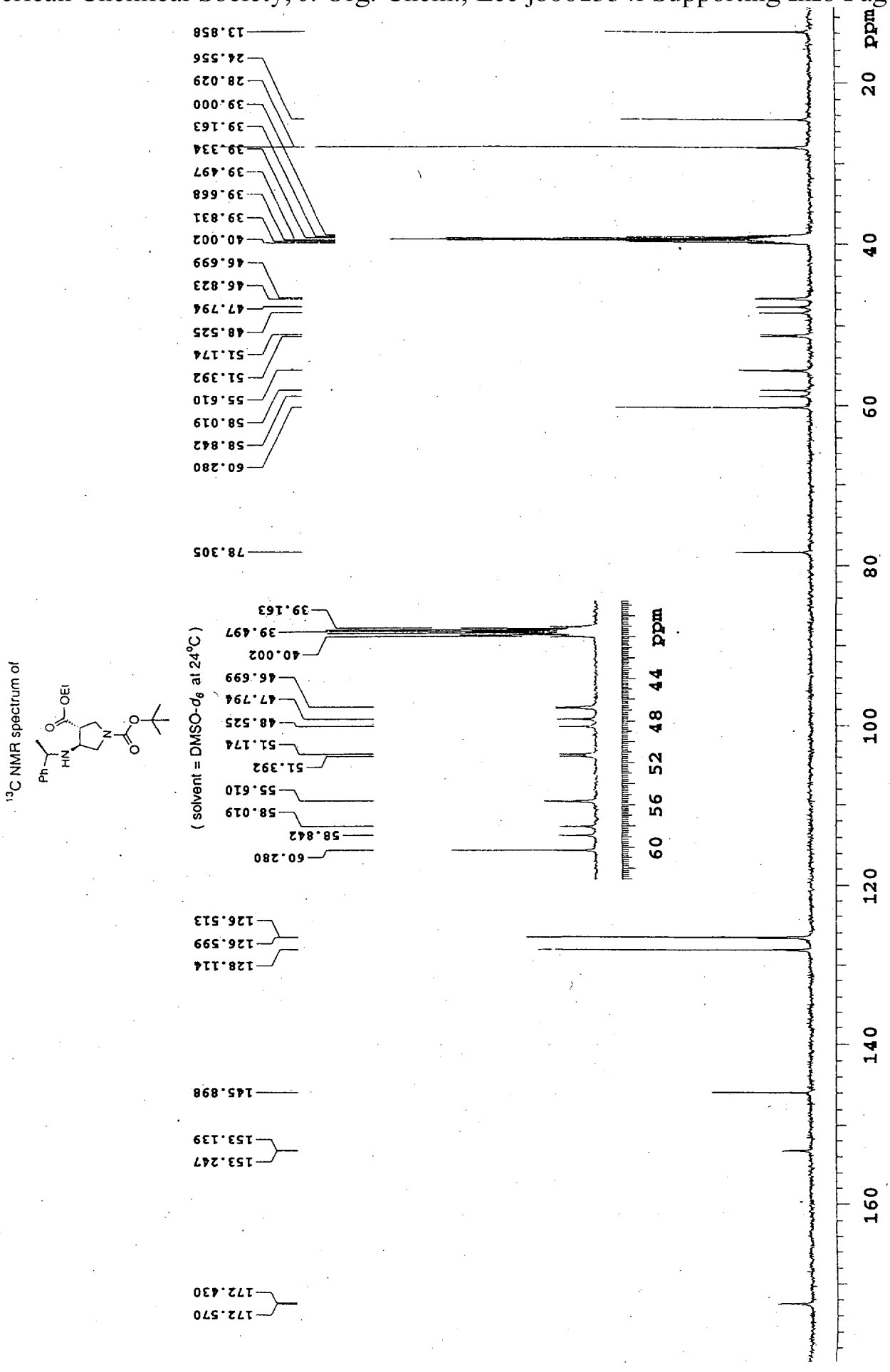
(solvent = $CDCl_3$)

hs

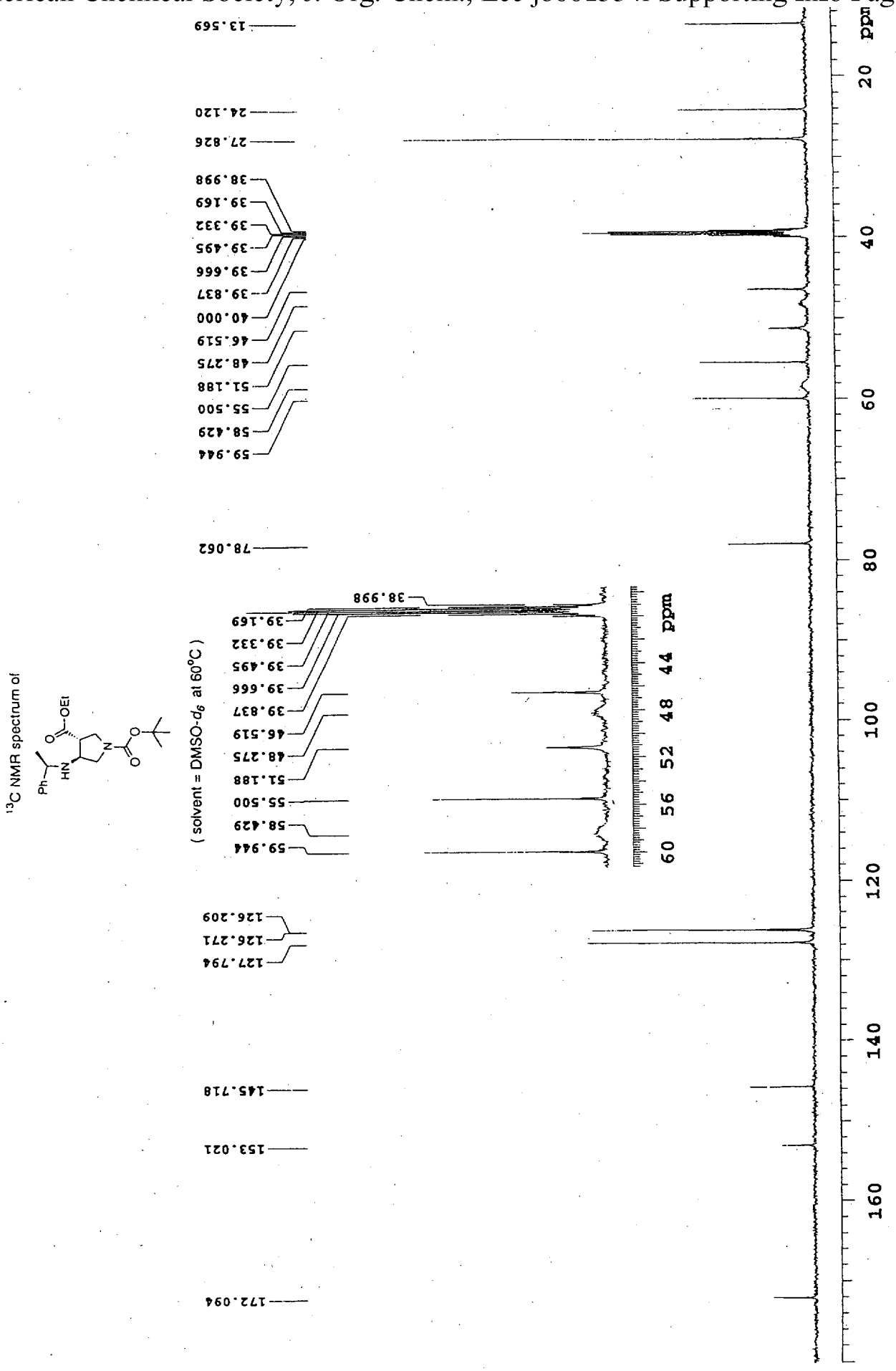
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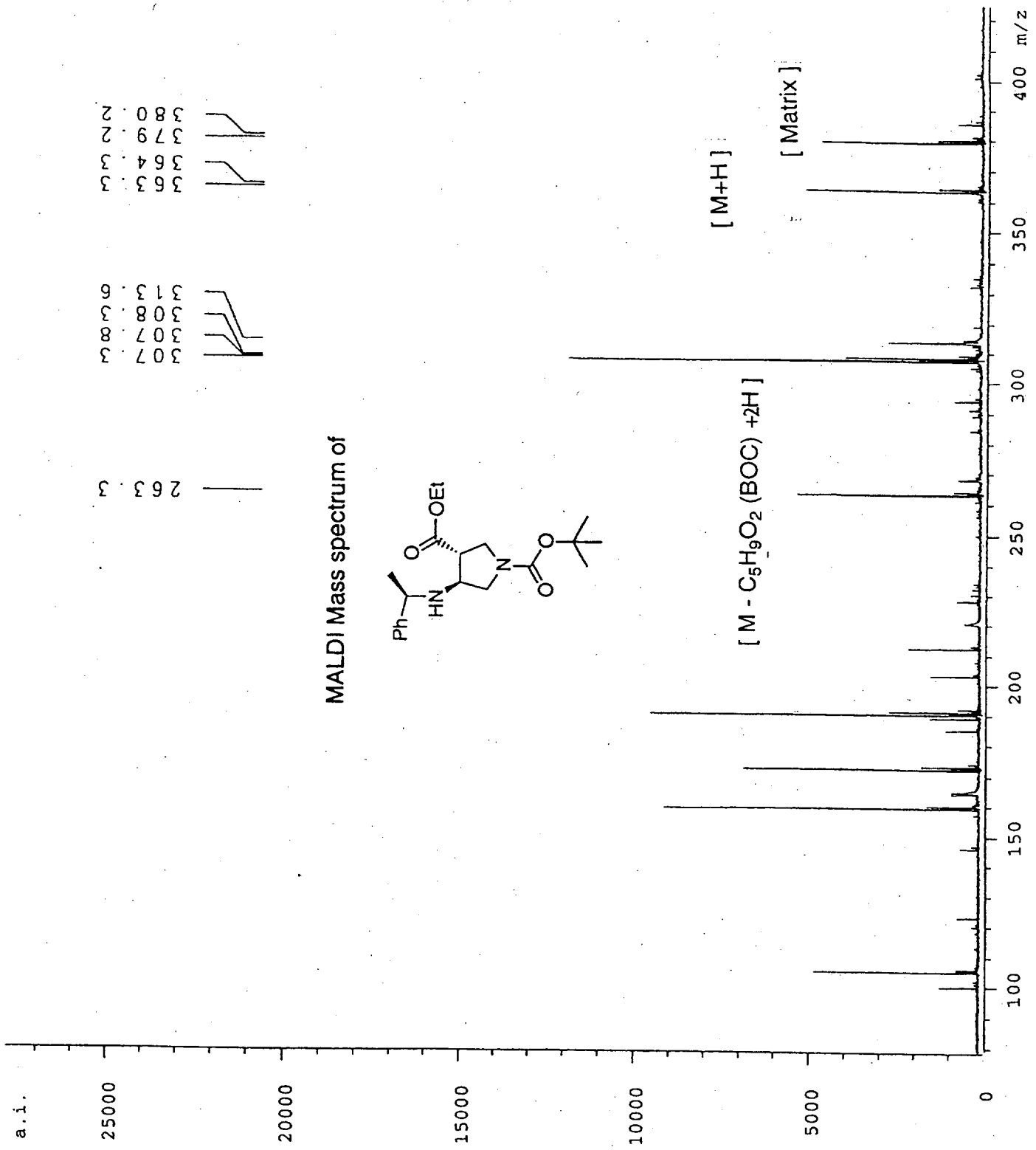
55

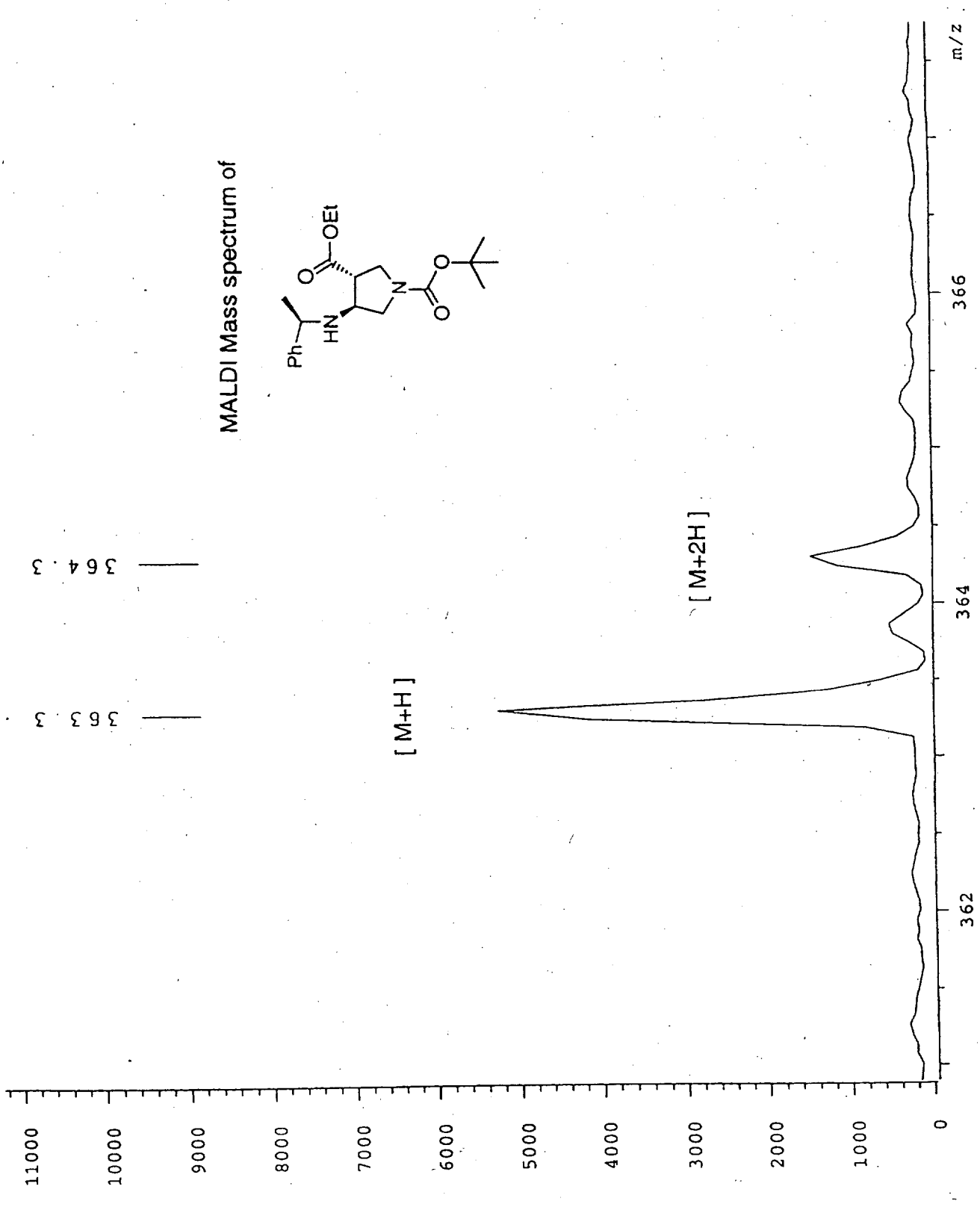

^{13}C NMR spectrum of
(solvent = DMSO-d_6 at 24°C)
13.858
24.556
28.029
39.000
39.163
39.334
39.497
39.668
39.831
40.002
46.699
46.823
47.794
48.525
51.174
51.392
55.610
58.019
58.842
60.280
78.305
126.513
126.599
128.114
145.898
153.139
153.247
172.430
172.570
20 ppm
40
60
80
100
120
140
160
60 56 52 48 44 ppm

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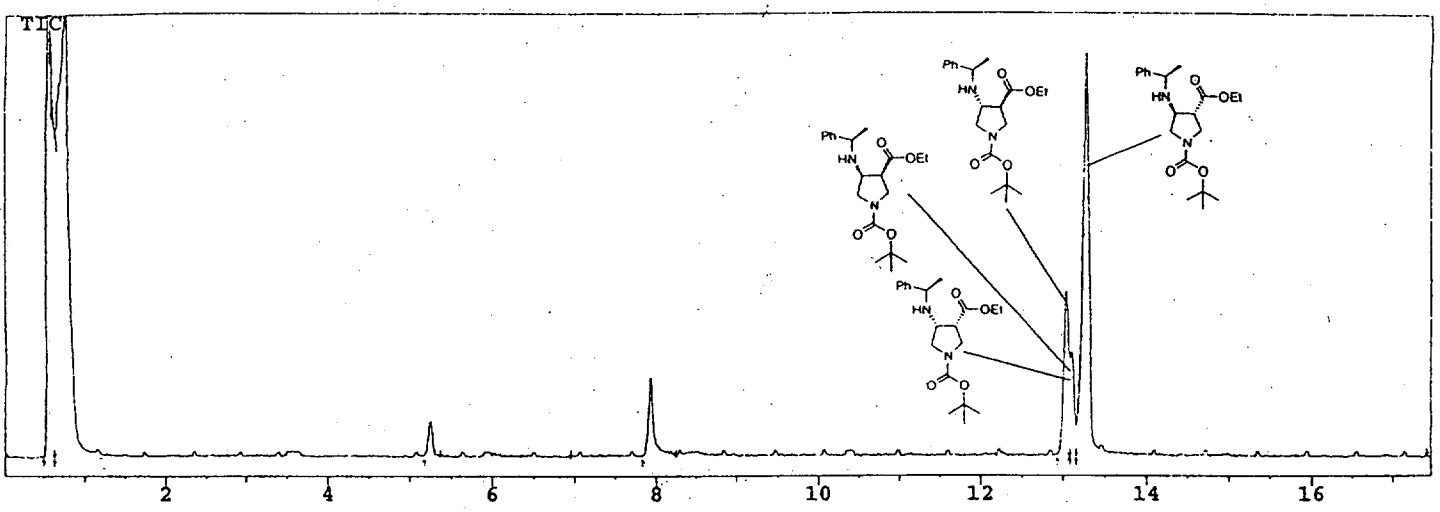


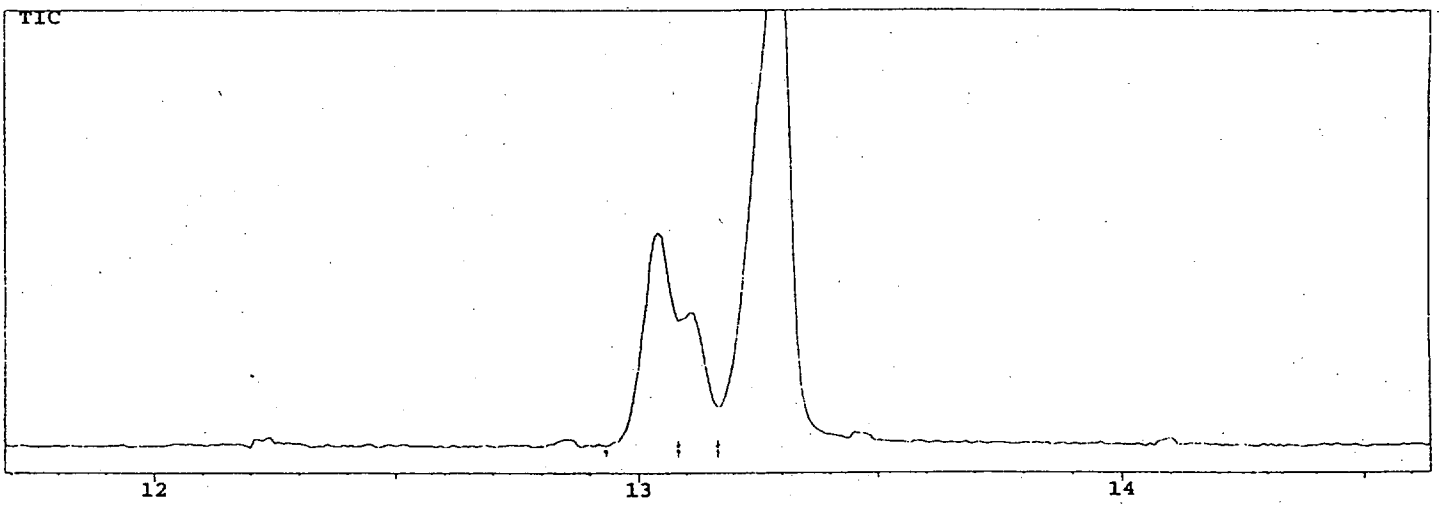
ES


MALDI Mass spectrum of
[M+H]
[Matrix]
[M - C5H9O2 (BOC) +2H]
OEt
Ph
HN
N
O
a.i.
25000
20000
15000
10000
5000
0
100
150
200
250
300
350
400
m/z
263.3
307.3
307.8
308.3
313.6
363.3
364.3
379.2
380.2

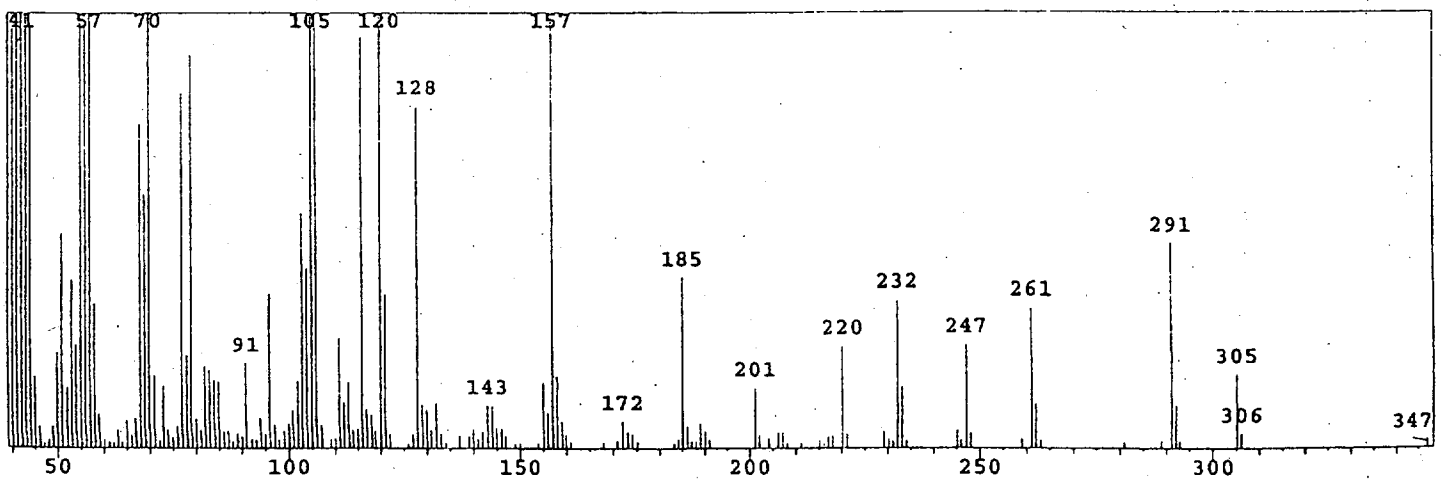

MALDI Mass spectrum of
OEt
O
O
N
O
O
HN
Ph
363.3
364.3
[M+H]
[M+2H]
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
362
364
366
m/z

GC-MS Spectrum of **Compound 3** (crude)





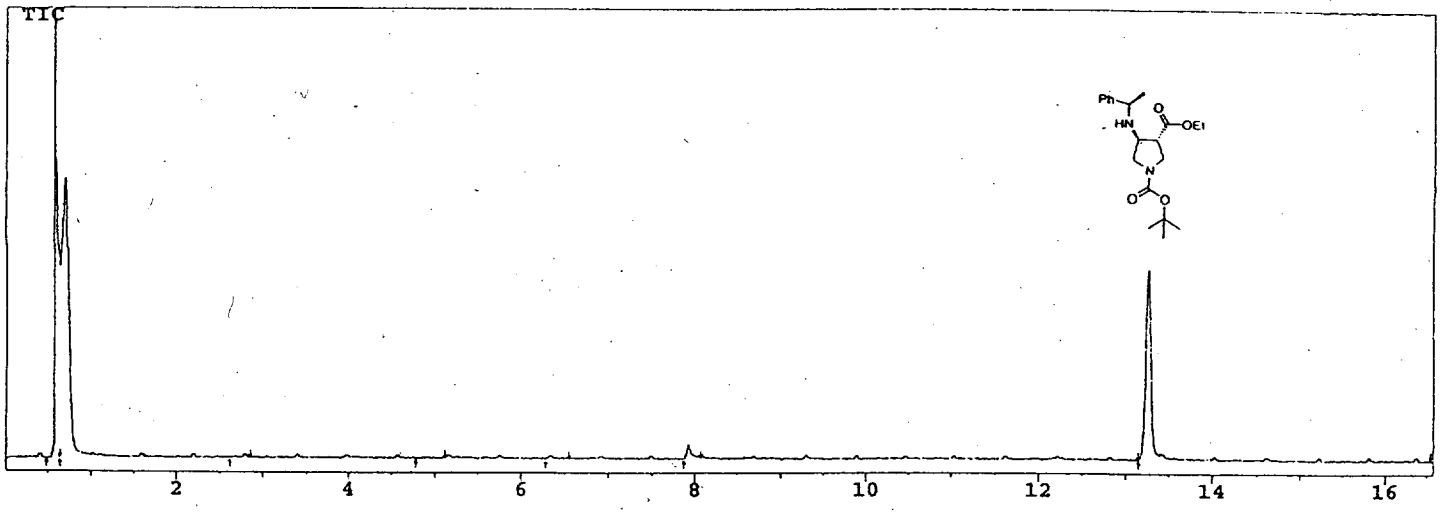
Scan # : 1595
Mass Peak # : 161 Ret. Time : 13.292
Base Peak : 105.00 (976735)

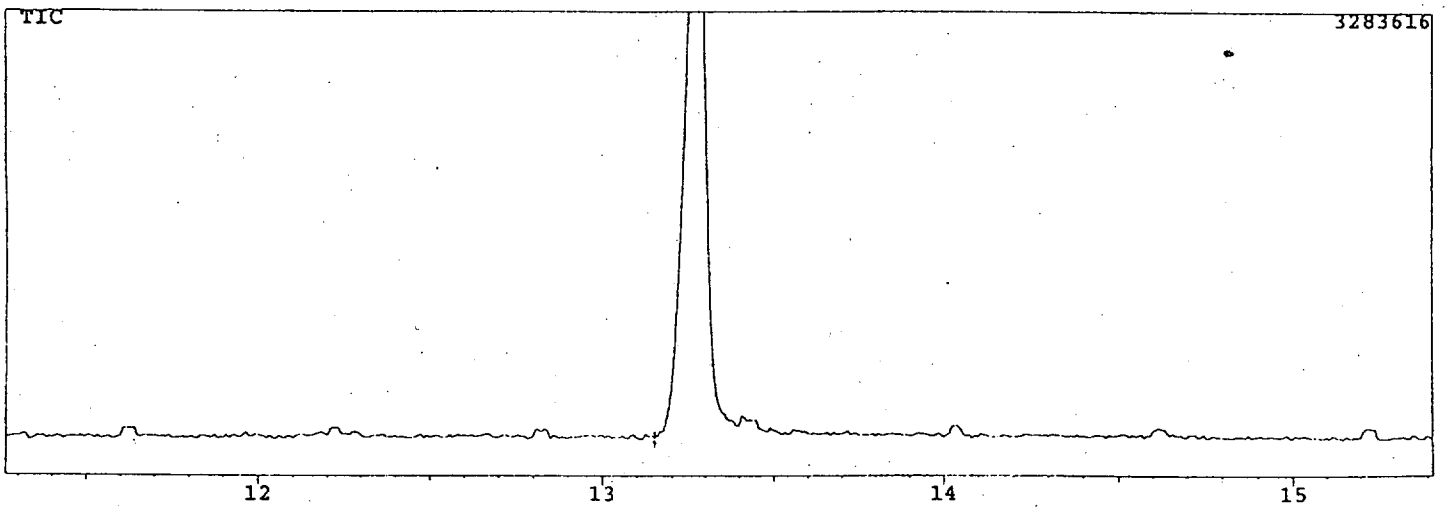


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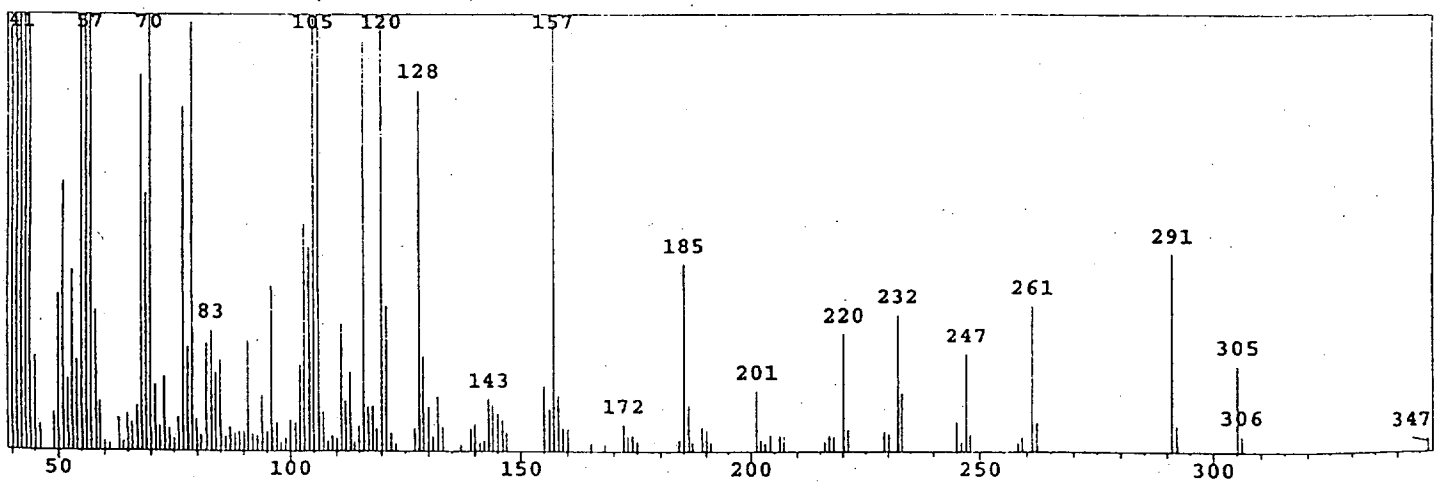
GC-MS Spectrum of **Compound 3** (after crystallization)

GC-MS Spectrum of **Compound 3** (after recrystallization)

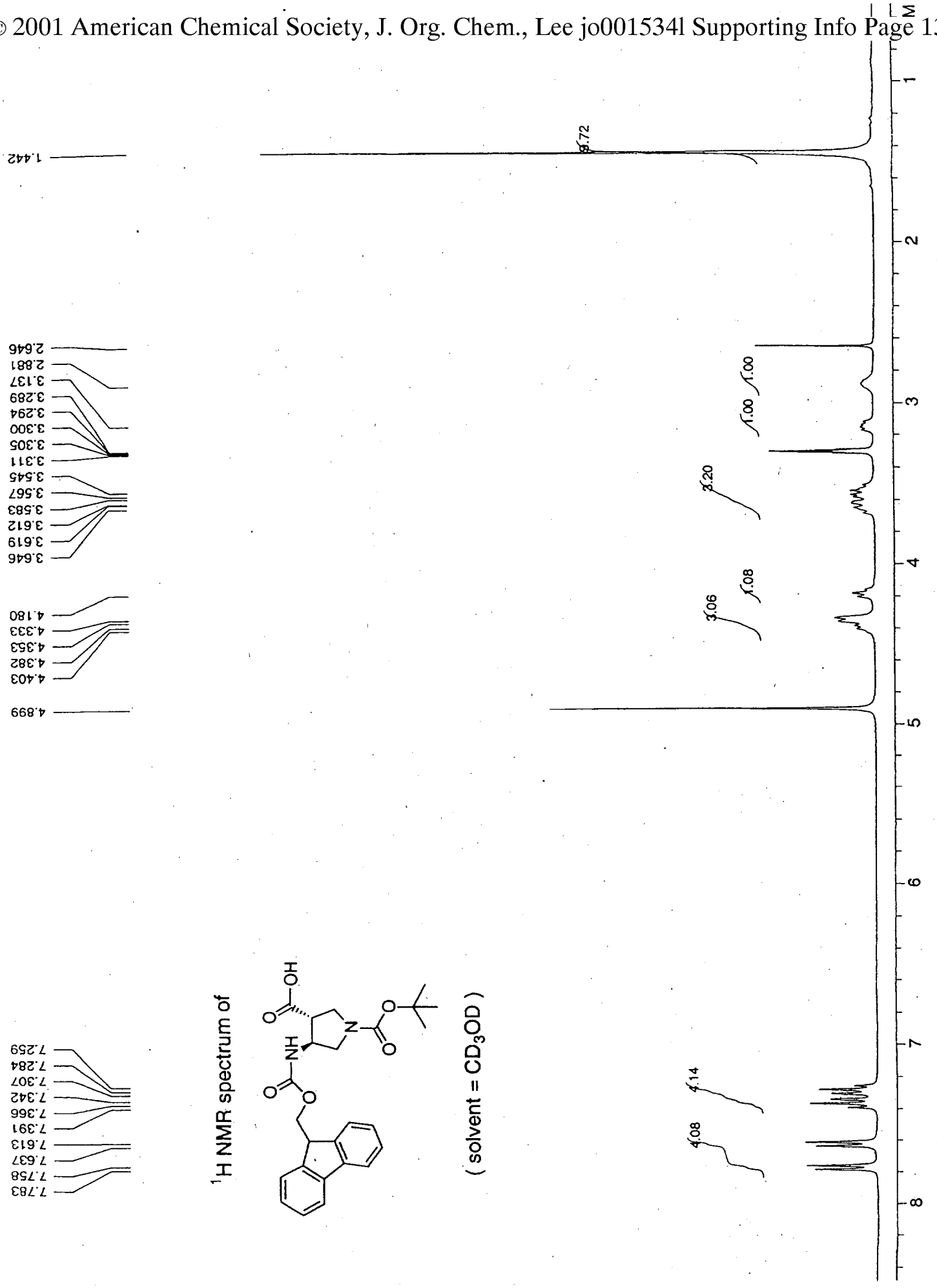


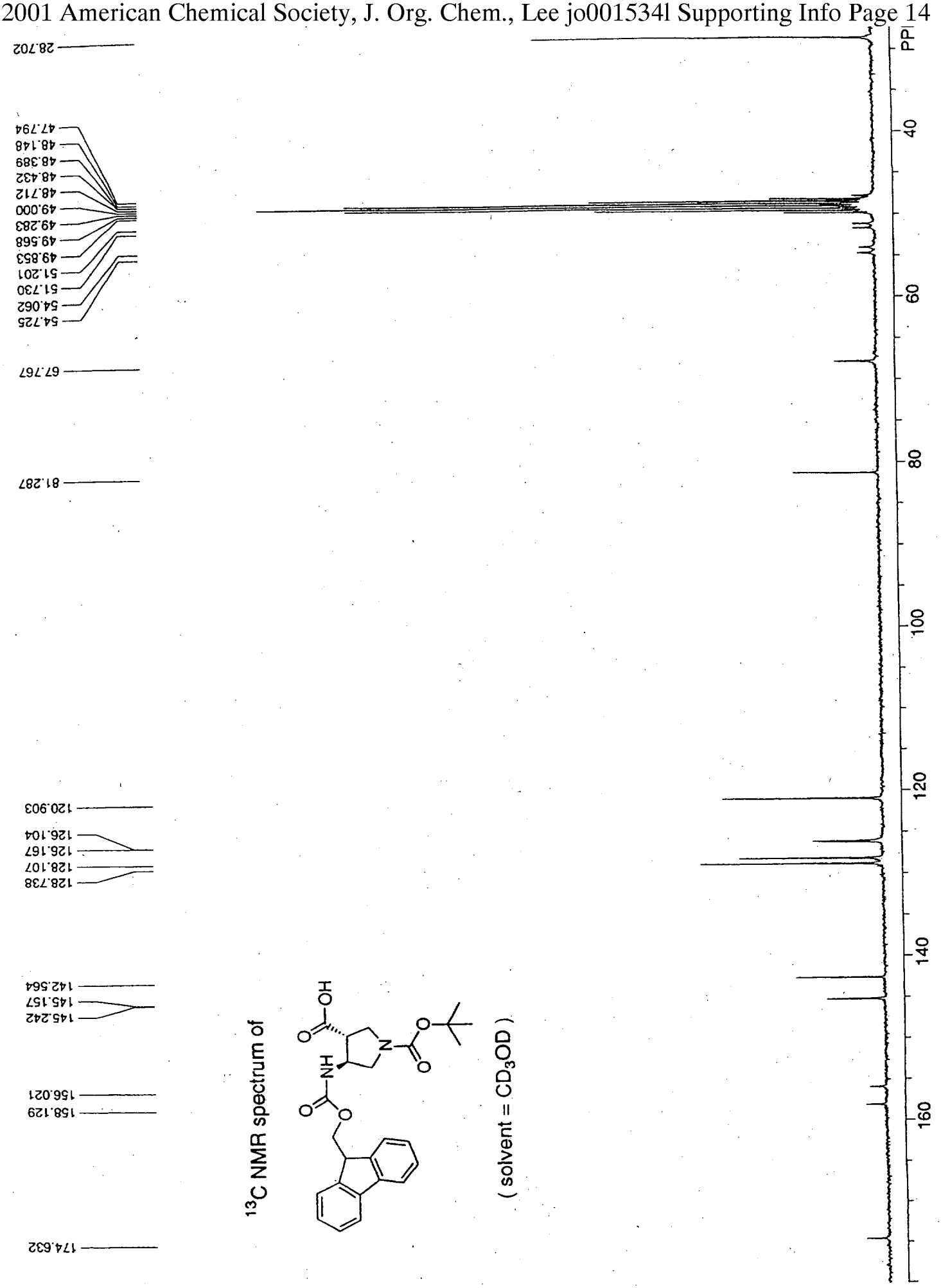


Scan # : 1594
Mass Peak # : 145 Ret. Time : 13.283
Base Peak : 105.00 (595321)



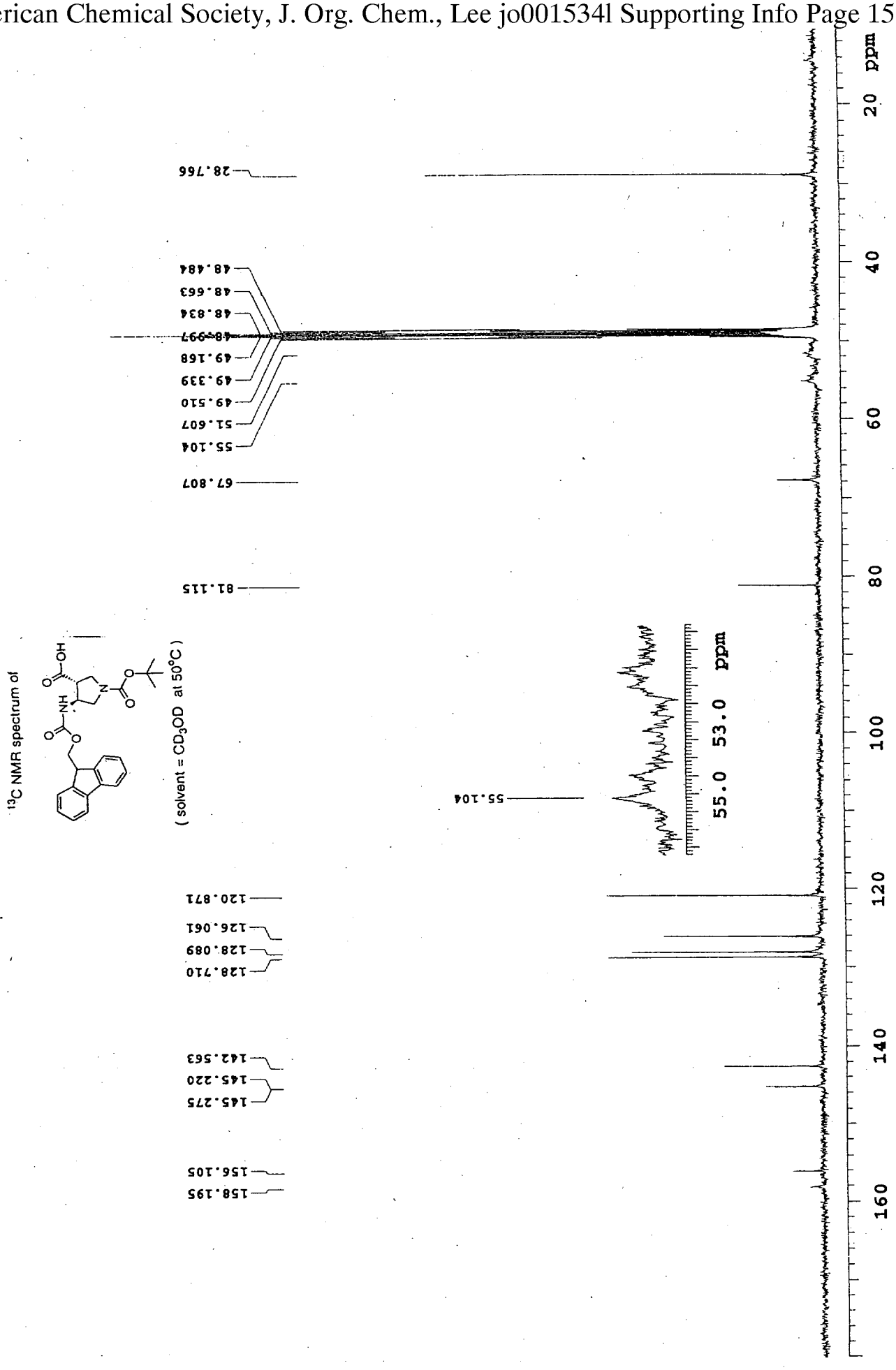
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1.442
2.646
2.881
3.137
3.289
3.294
3.300
3.305
3.311
3.545
3.567
3.583
3.612
3.619
3.646
4.180
4.333
4.353
4.382
4.403
4.899
7.259
7.284
7.307
7.342
7.366
7.391
7.613
7.637
7.758
7.783
9.72
1.00
1.00
3.20
3.06
1.08
4.14
4.08
M
1
2
3
4
5
6
7
8
^{1}H NMR spectrum of
(solvent = CD_3OD)

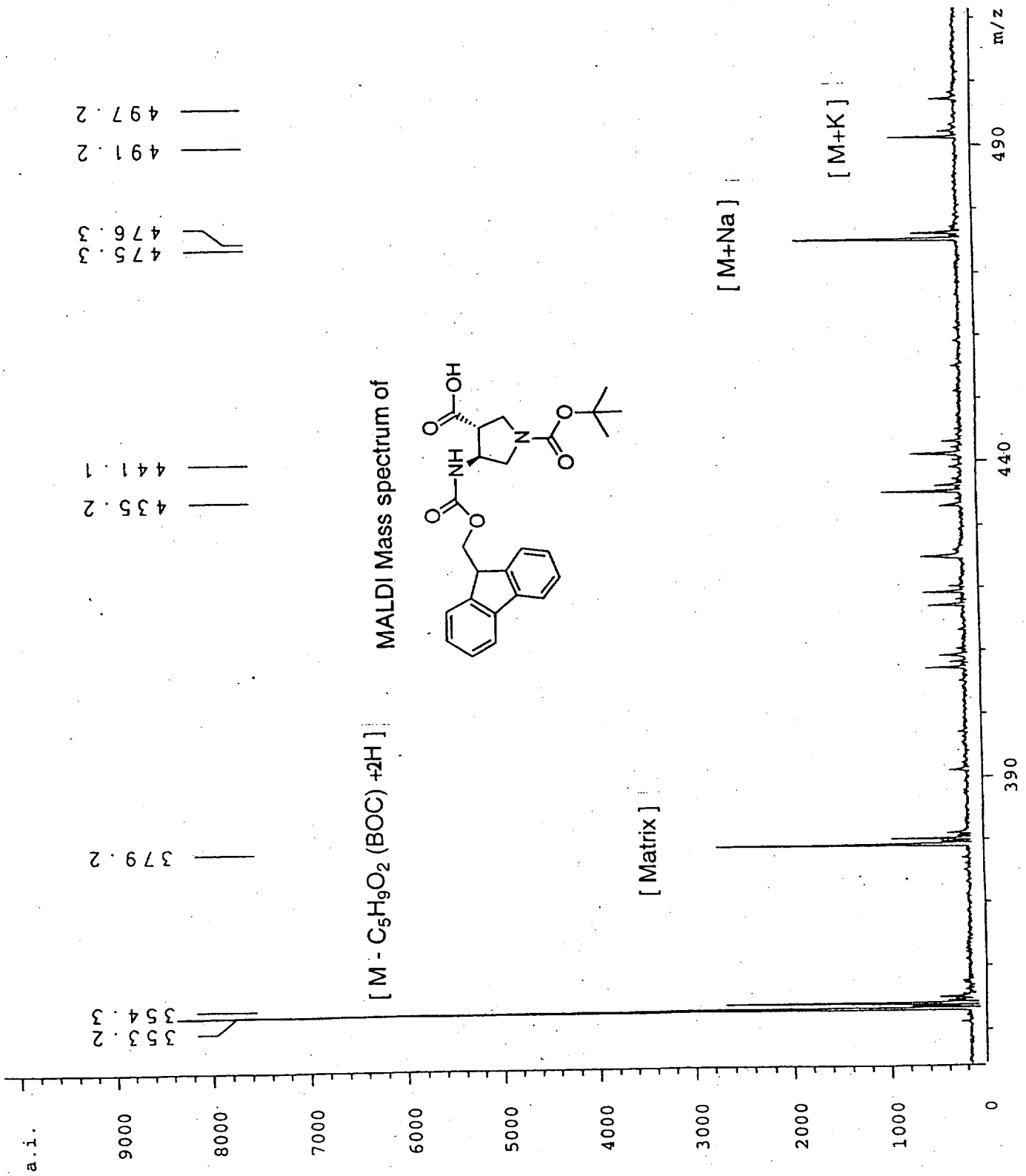

28.702
47.794
48.148
48.389
48.432
48.712
49.000
49.283
49.568
49.853
51.201
51.730
54.062
54.725
67.767
81.287
120.903
126.104
126.167
128.107
128.738
142.564
145.157
145.242
156.021
158.129
174.632
PPM
40
60
80
100
120
140
160
^{13}C NMR spectrum of
(solvent = CD_3OD)

714

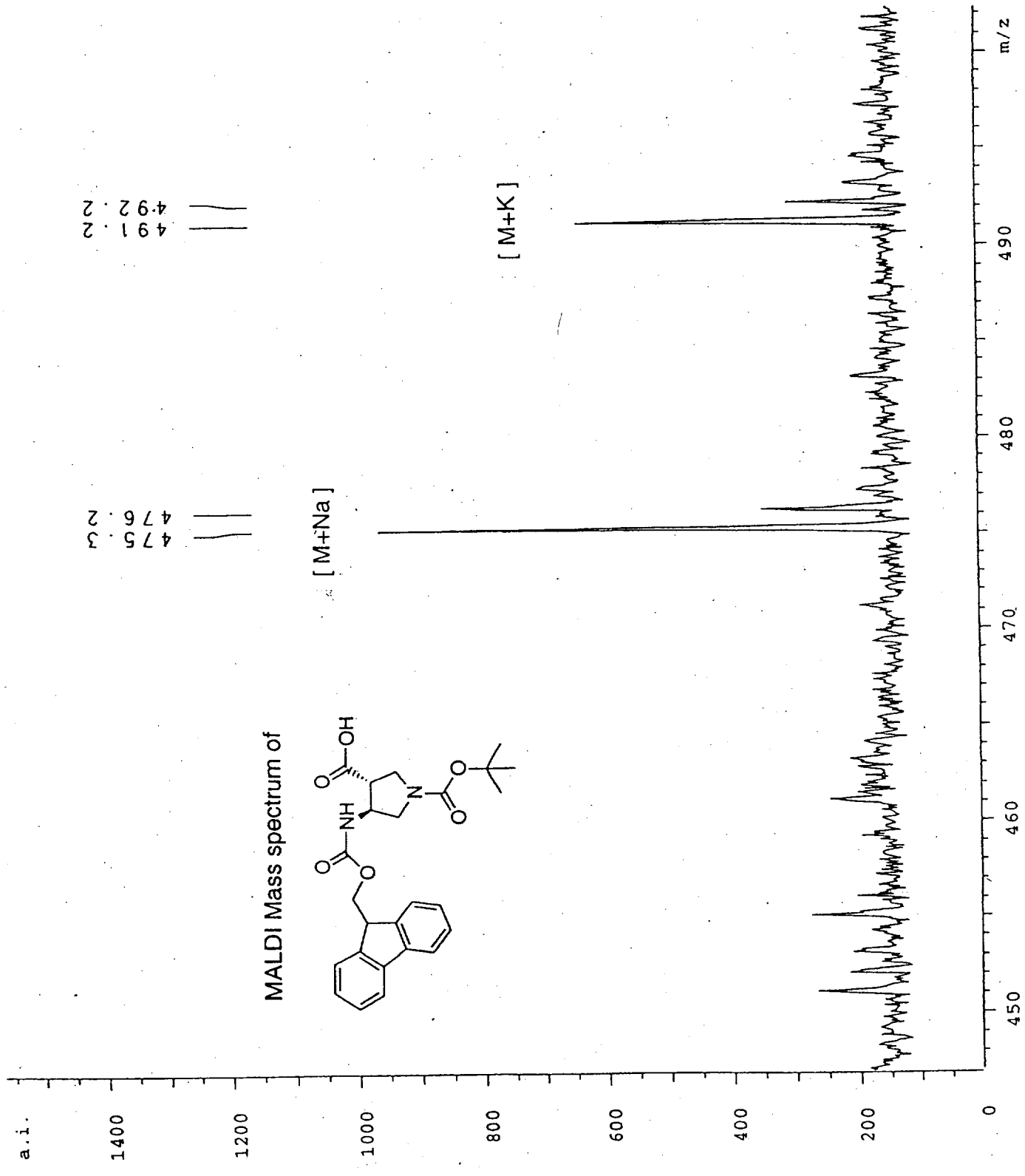
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