Electronic Supplementary Material (ESI) for Organic Chemistry Frontiers.

Synthesis of the 1,2,4-Thiadiazole Alkaloids Polycarpathiamines A and B

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SUPPORTING INFORMATION

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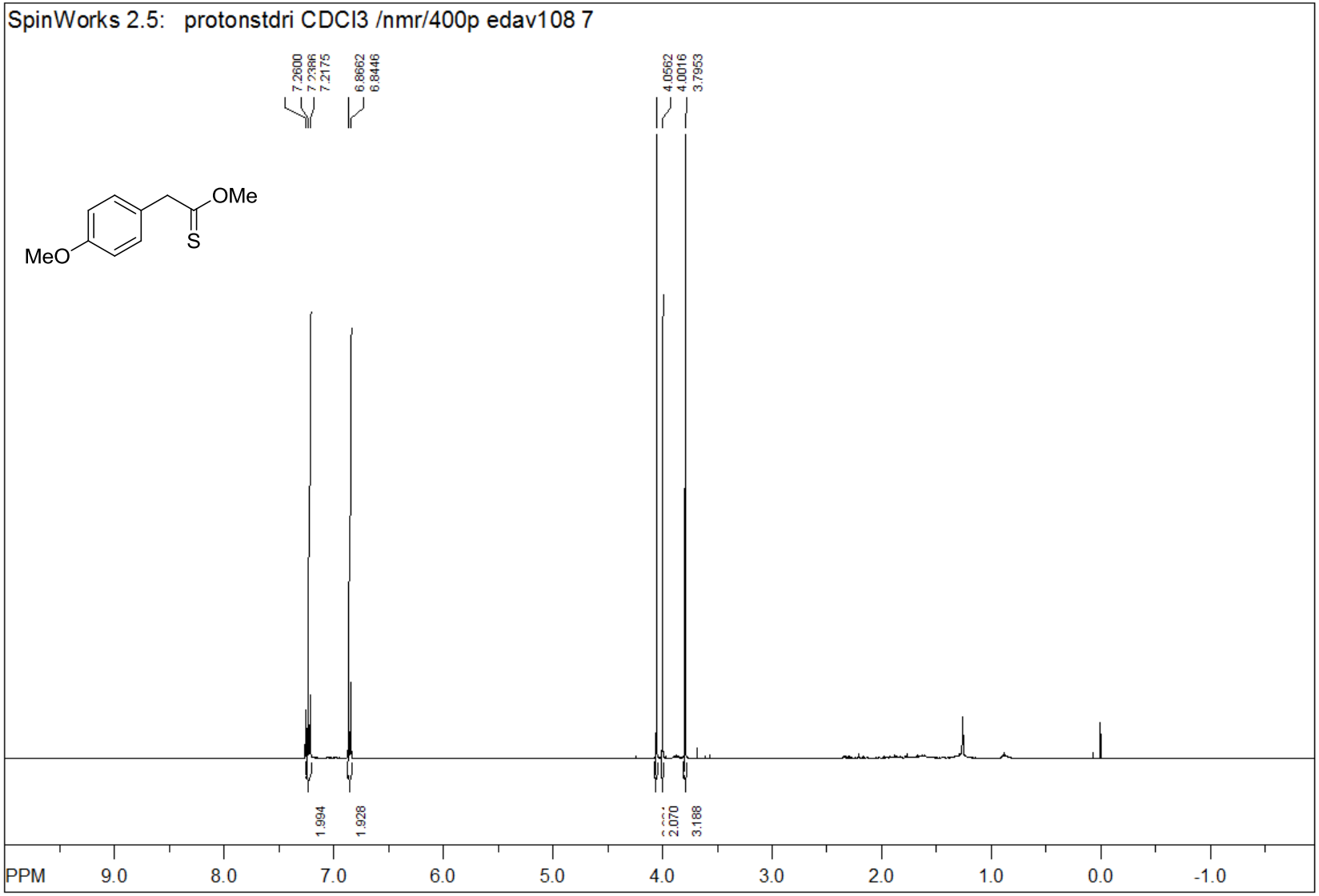

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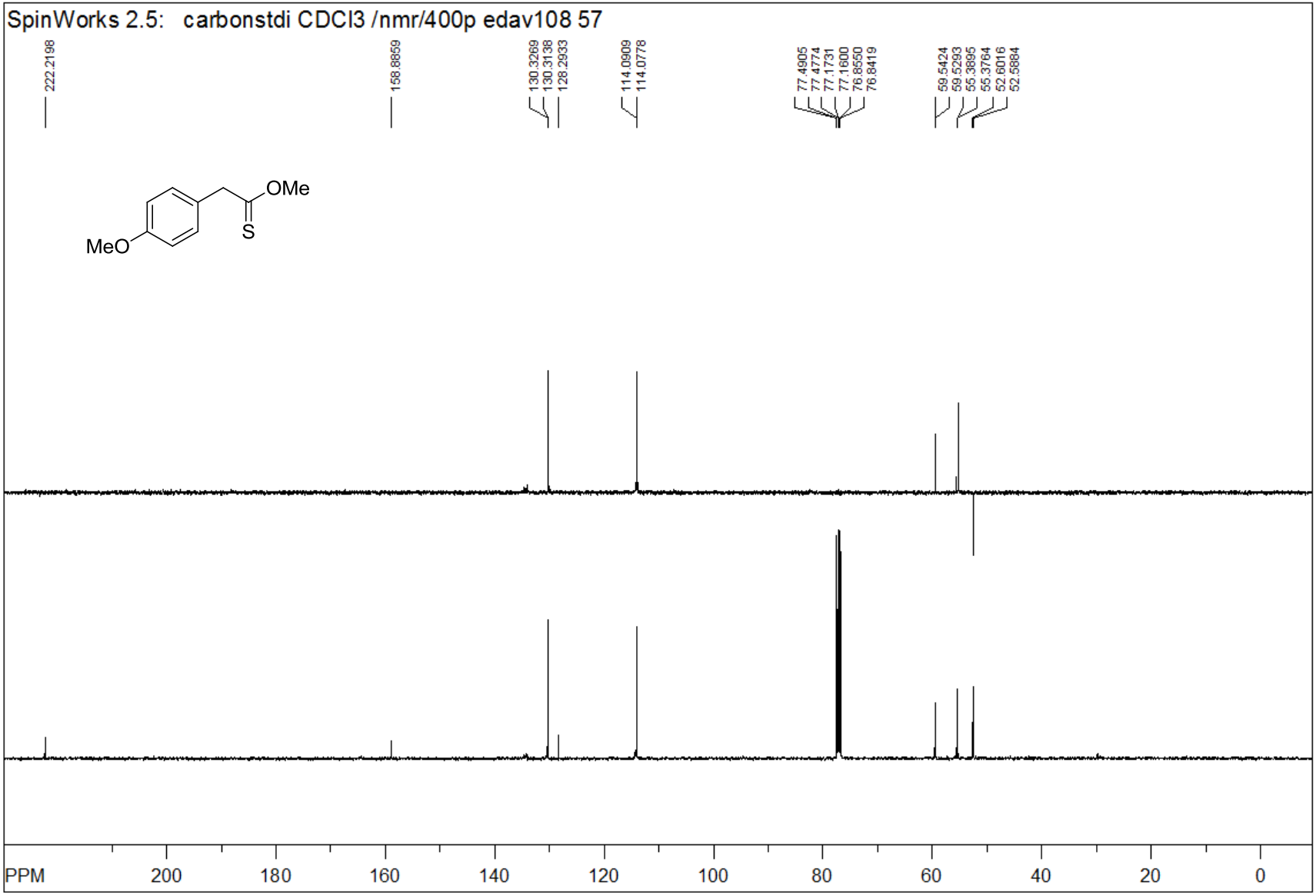

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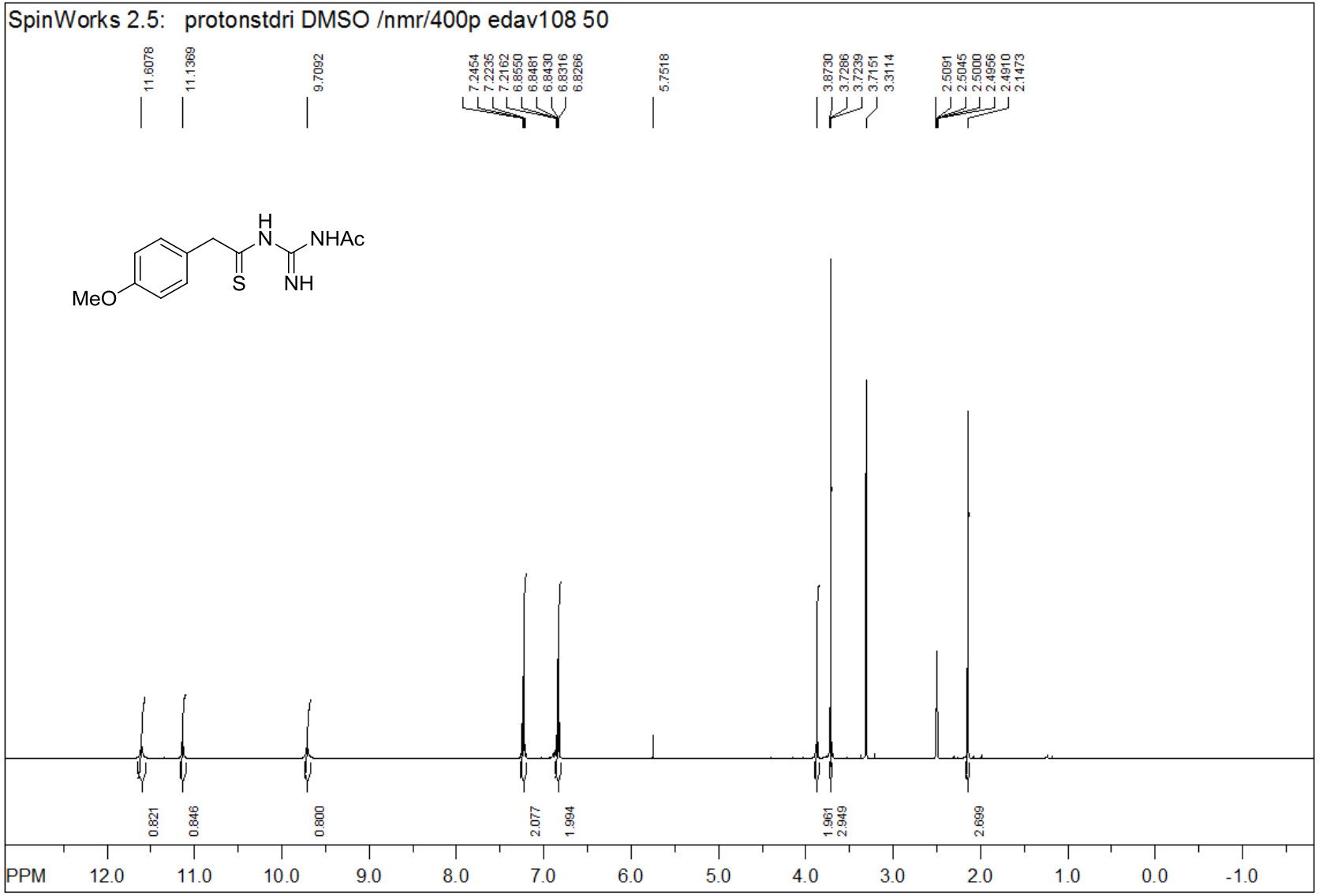

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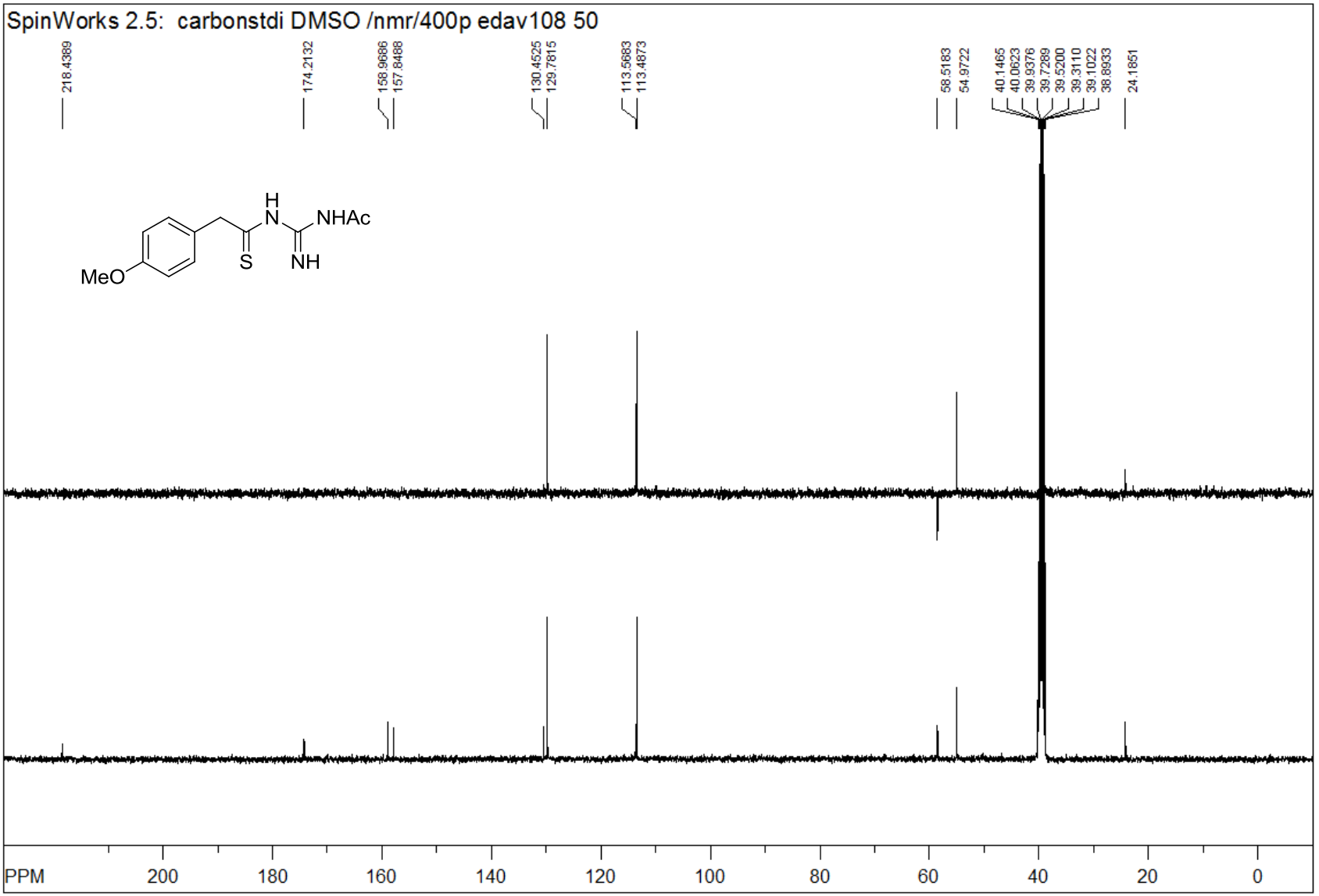

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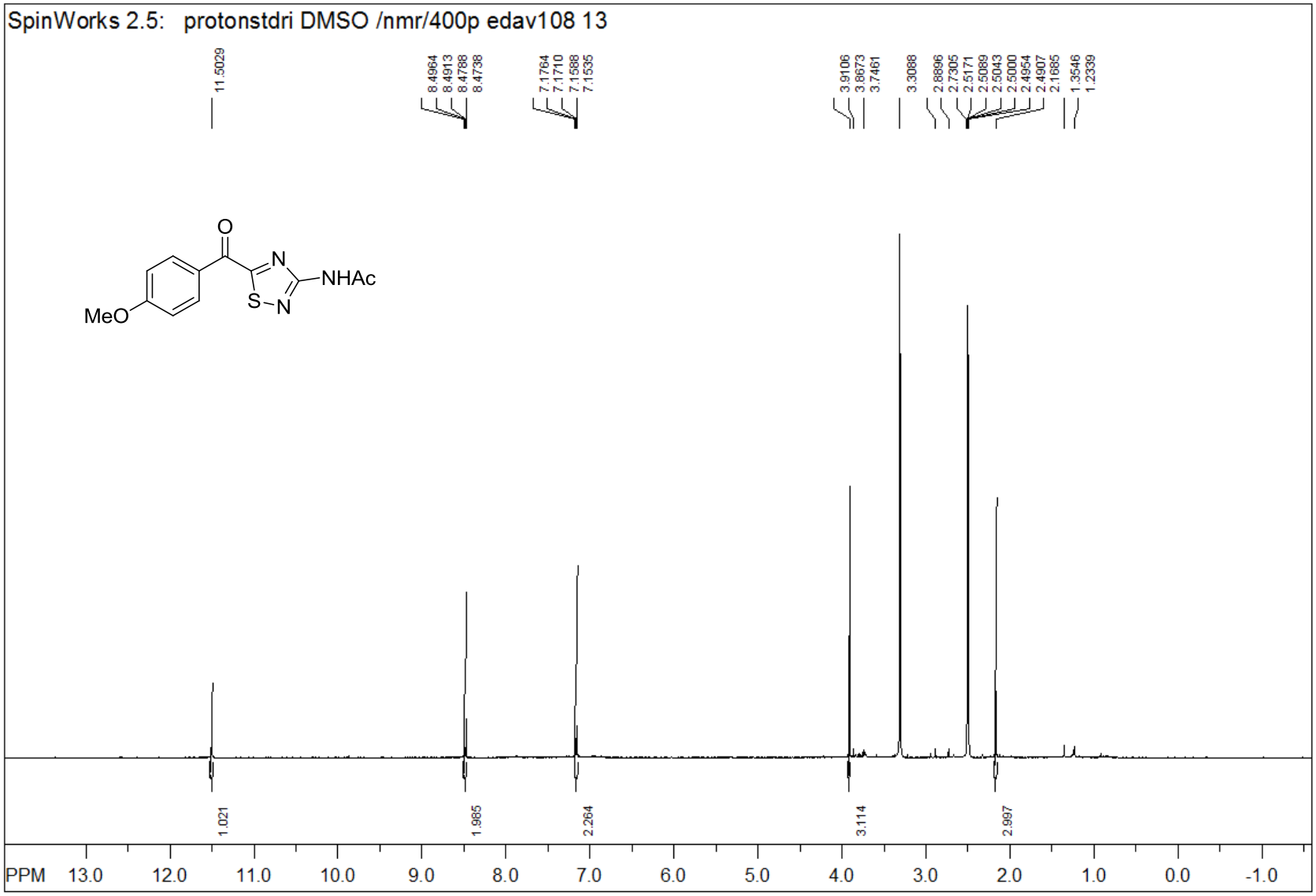

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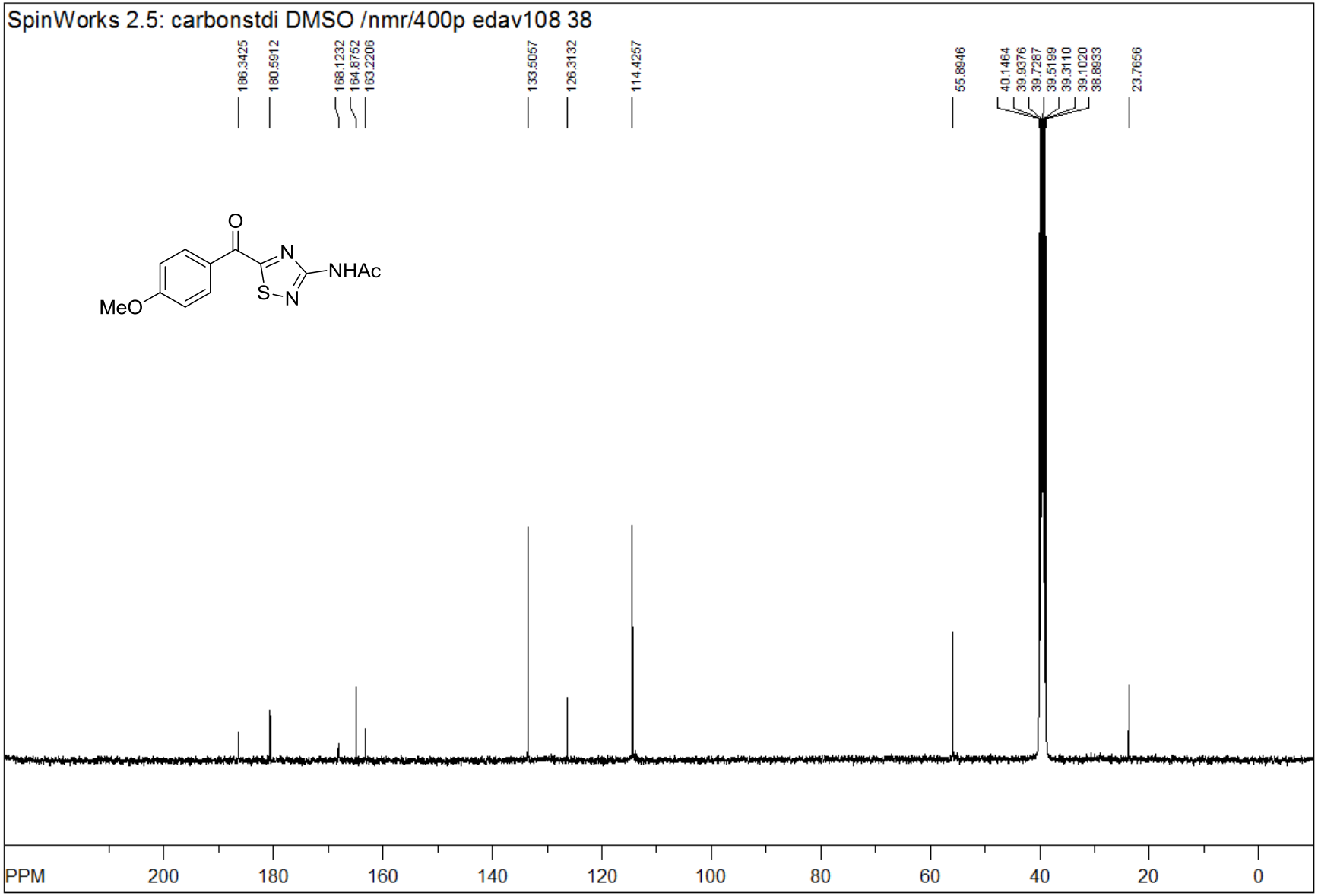
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168.1232
164.8752
163.2206
133.5057
126.3132
114.4257
55.8946
40.1464
39.9376
39.7287
39.5199
39.3110
39.1020
38.8933
23.7656
O
N
NHAc
S
N
MeO
PPM
200
180
160
140
120
100
80
60
40
20
0
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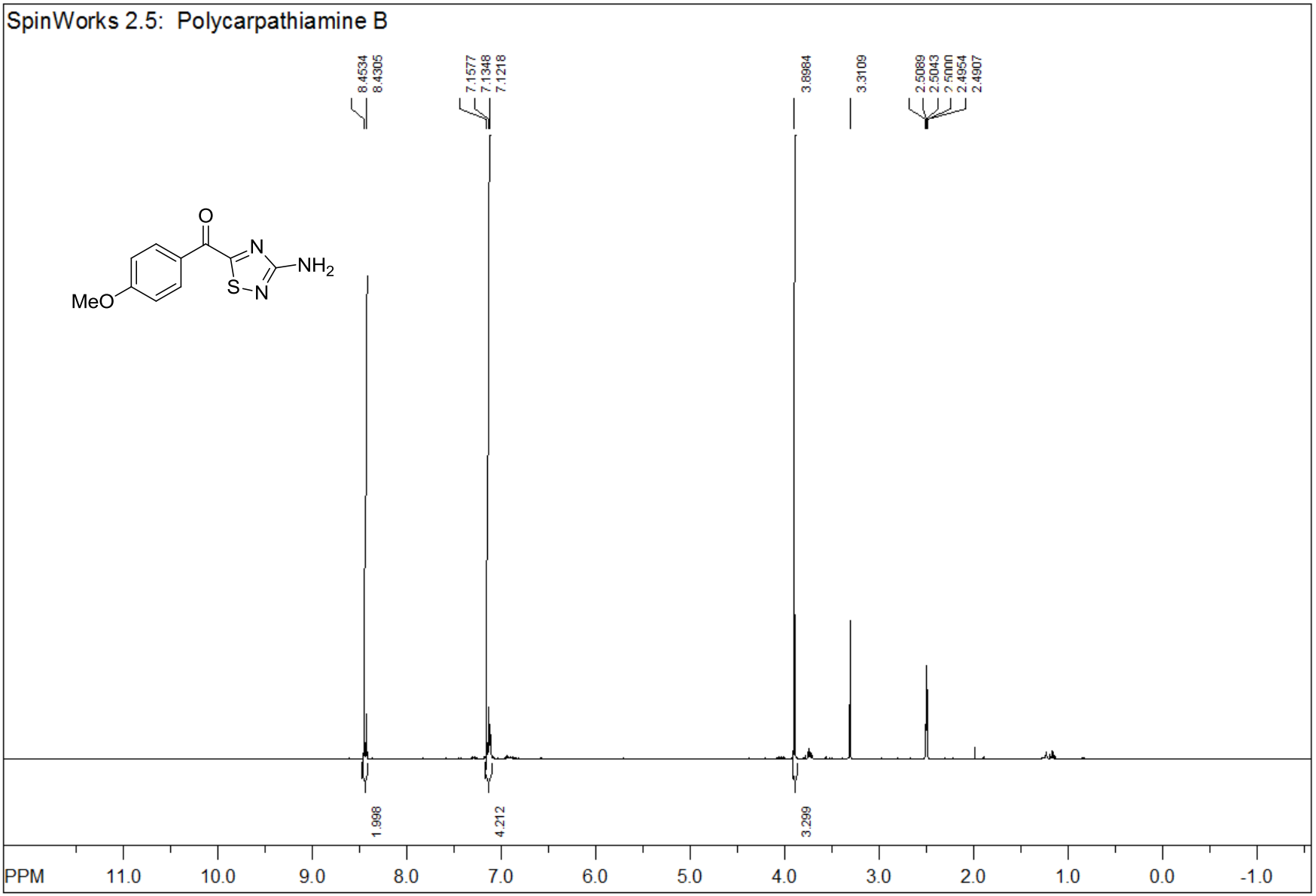
transmitter freq.: 100.558451 MHz
time domain size: 65536 points
width: 24038.46 Hz = 239.049640 ppm = 0.366798 Hz/pt
freq. of 0 ppm: 100.547436 MHz
processed size: 32768 complex points
LB: 2.000 GB: 0.0000
Hz/cm: 961.538 ppm/cm: 9.56199


SpinWorks 2.5: Polycarpathiamine B
8.4534
8.4305
7.1577
7.1348
7.1218
3.8984
3.3109
2.5089
2.5043
2.4954
2.4907
O
N
NH2
S
N
MeO
1.998
4.212
3.299
PPM
11.0
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
-1.0
file: Z:\data\edav108\nmr\ED85.0\20\fid expt: <zg30>
transmitter freq.: 399.872099 MHz
time domain size: 32768 points
width: 8169.93 Hz = 20.431370 ppm = 0.249327 Hz/pt
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freq. of 0 ppm: 399.870007 MHz
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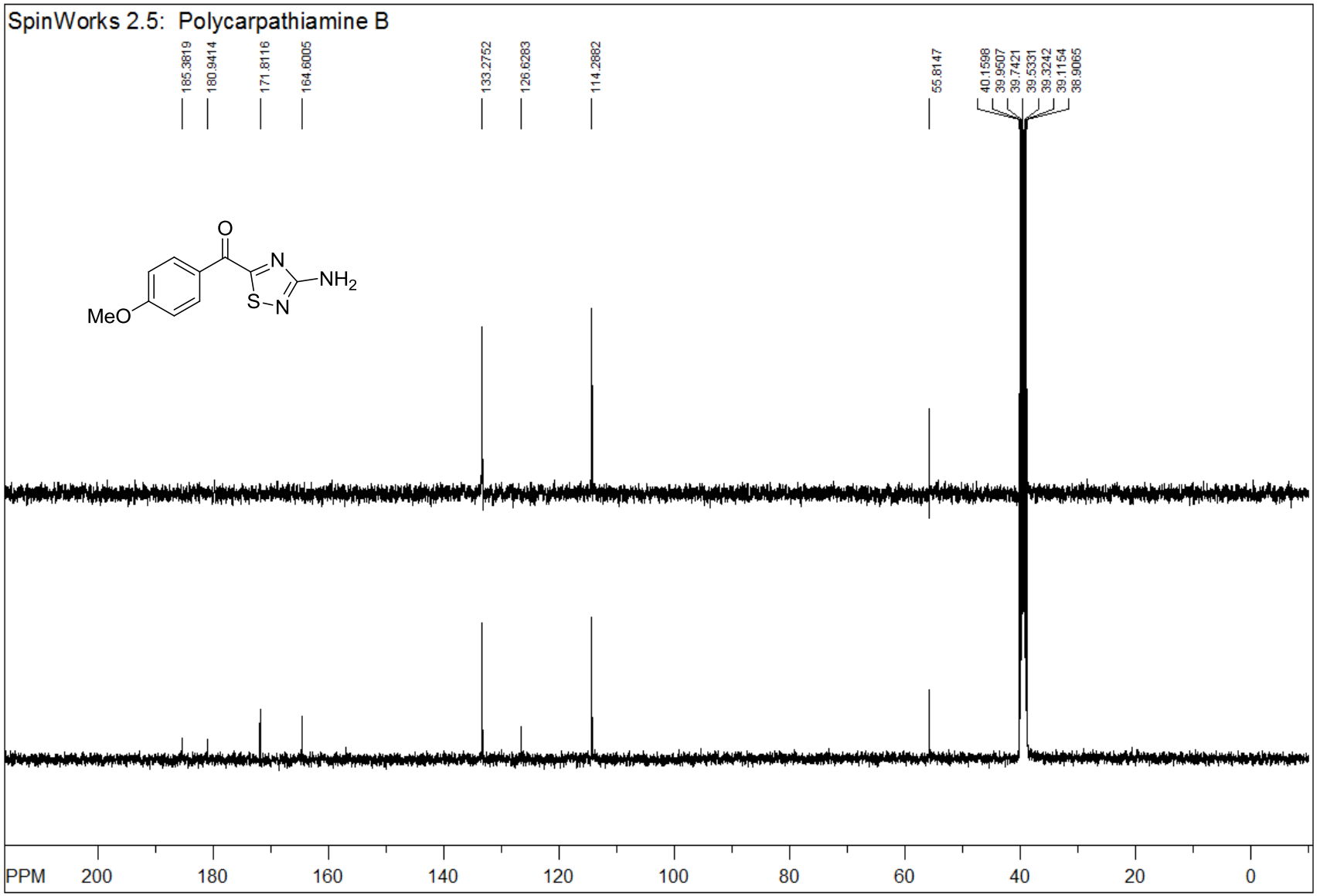

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transmitter freq.: 100.558451 MHz
time domain size: 65536 points
width: 24038.46 Hz = 239.049640 ppm = 0.366798 Hz/pt
number of scans: 1500

freq. of 0 ppm: 100.547440 MHz
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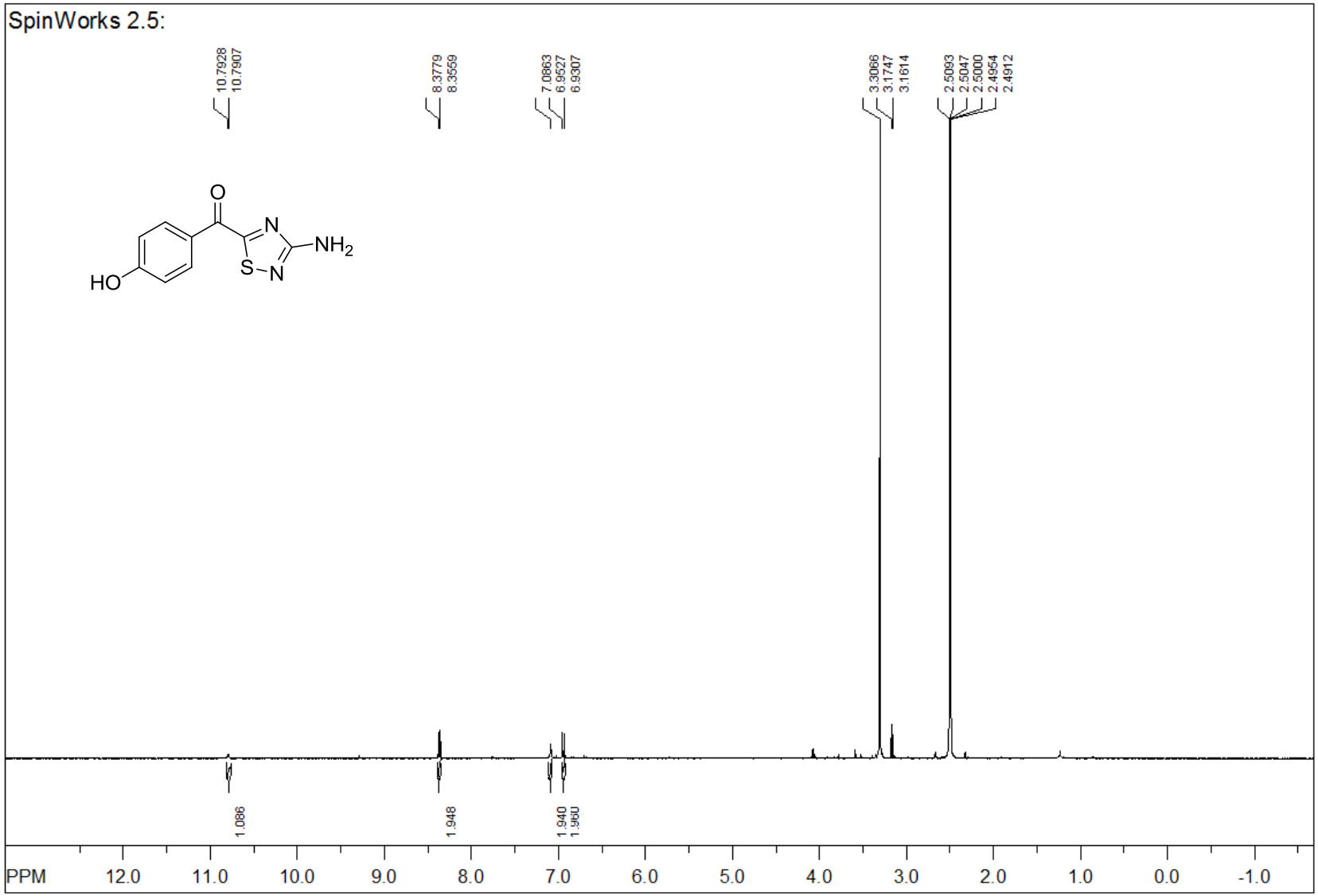
SpinWorks 2.5:
10.7928
10.7907
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6.9307
3.3066
3.1747
3.1614
2.5093
2.5047
2.5000
2.4954
2.4912
O
N
NH2
S
N
HO
1.086
1.948
1.940
1.960
PPM
12.0
11.0
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
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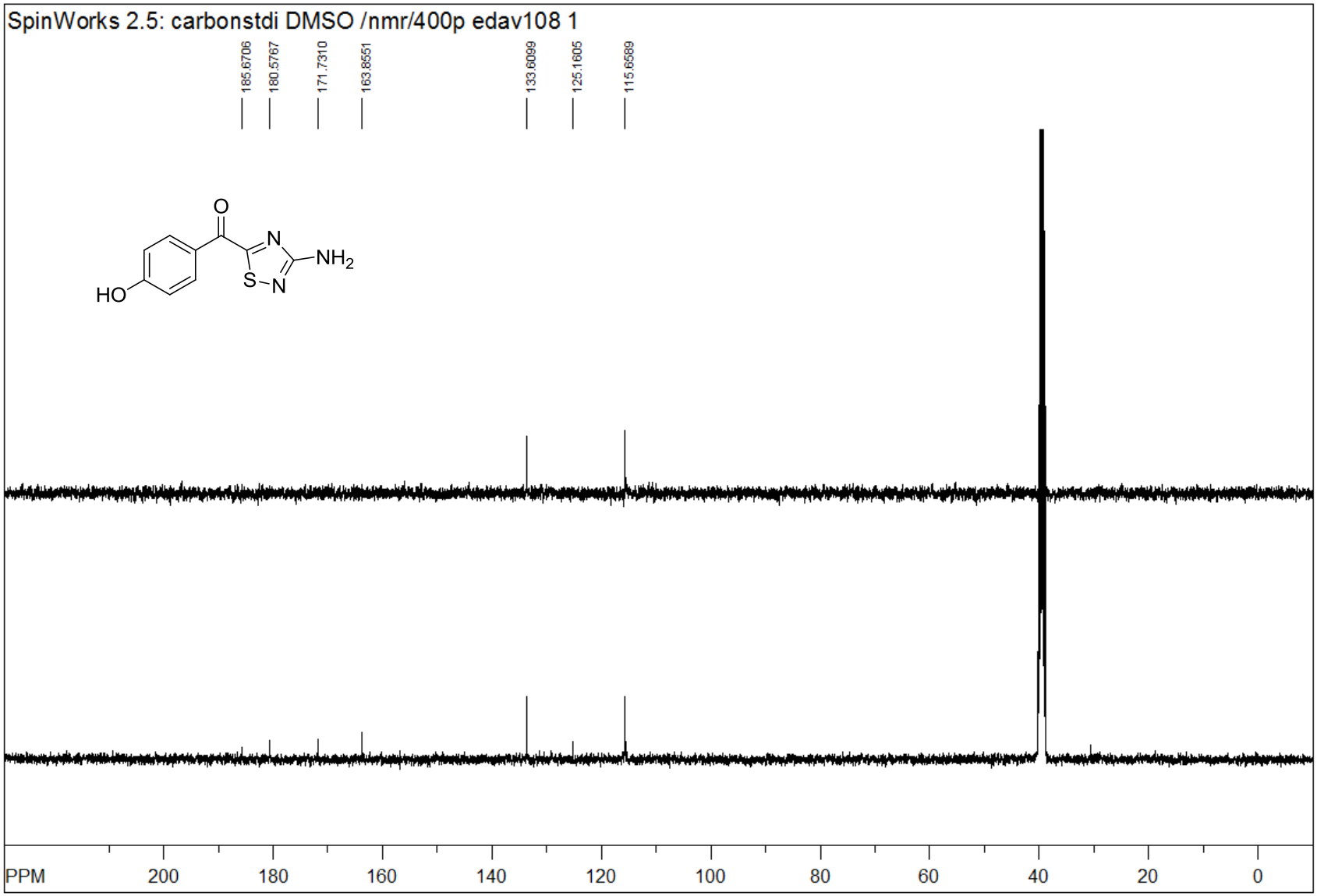
Hz/cm: 240.510 ppm/cm: 0.60108



file: Z:\data\edav108\nmr\ED86.3\21\fid expt: <zgpg30>
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time domain size: 65536 points
width: 24038.46 Hz = 239.049640 ppm = 0.366798 Hz/pt
number of scans: 2000

freq. of 0 ppm: 100.547441 MHz
processed size: 32768 complex points
LB: 2.000 GB: 0.0000
Hz/cm: 961.538 ppm/cm: 9.56199