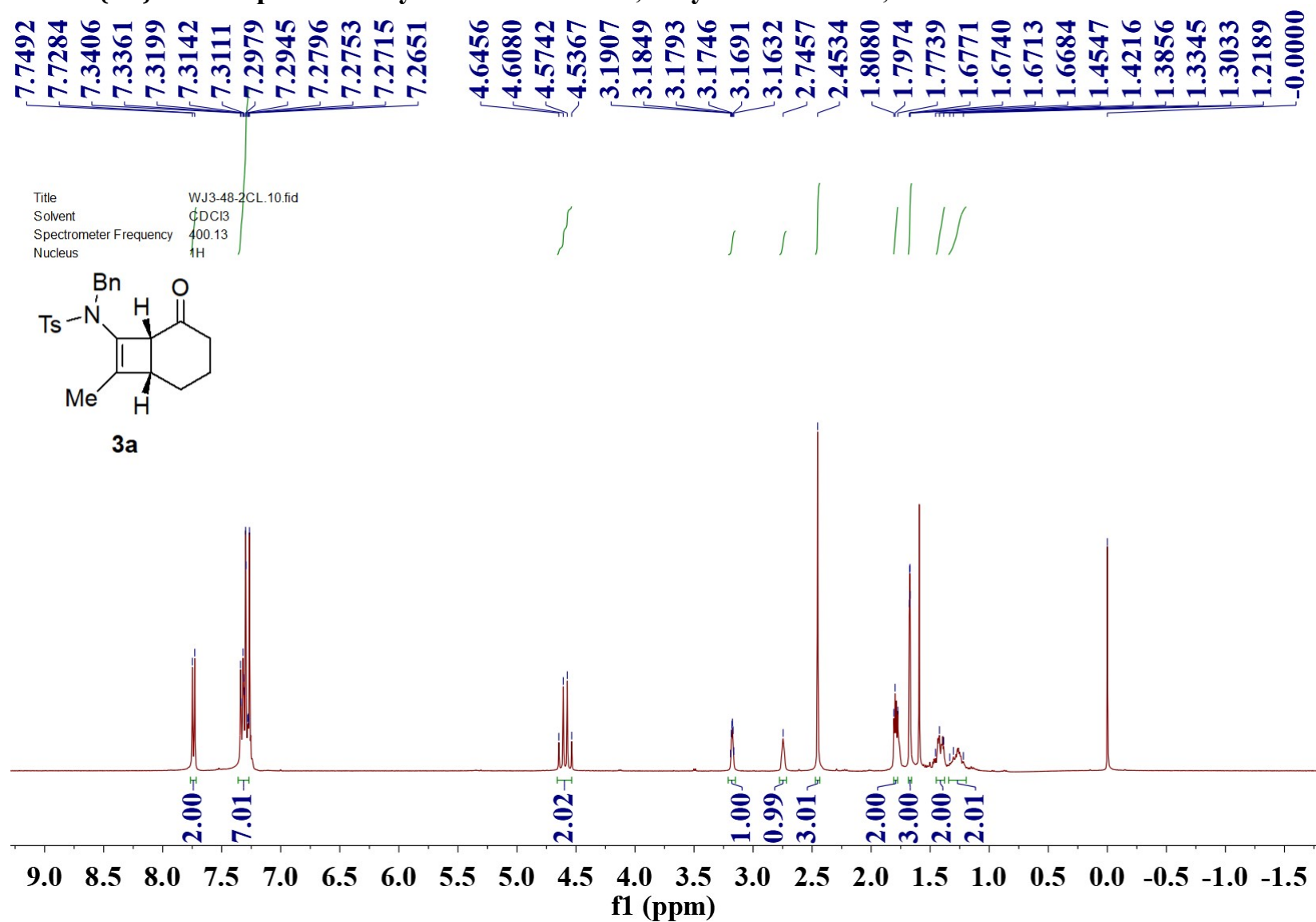


Part II Copies of ^1H NMR, $^{13}\text{C}\{^1\text{H}\}$ NMR, and NOESY Spectra.

^1H NMR and $^{13}\text{C}\{^1\text{H}\}$ NMR Spectra of Cyclobutenamides **3**, Bicyclic Ketones **4**, and Amide **5b**.



210.736

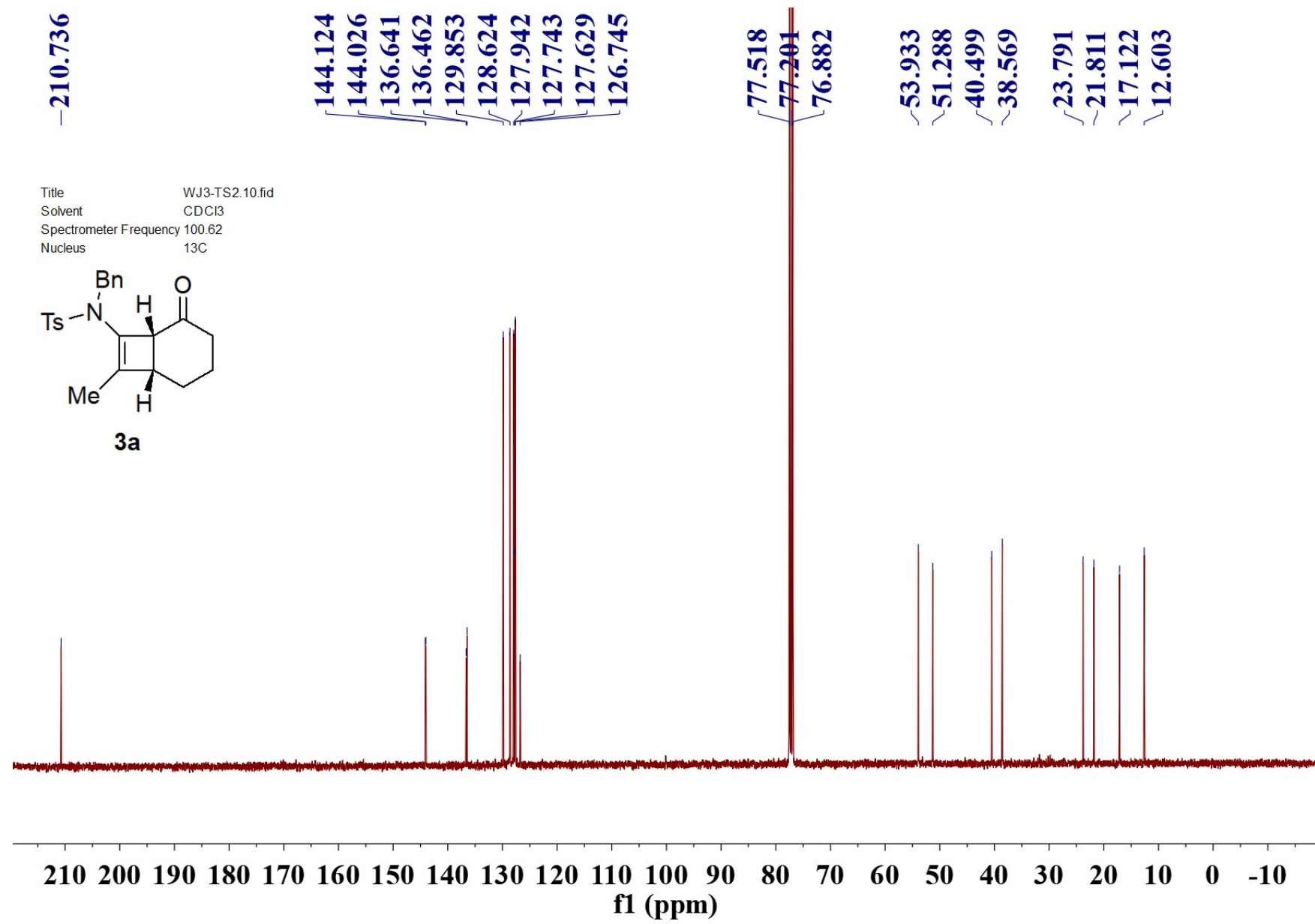
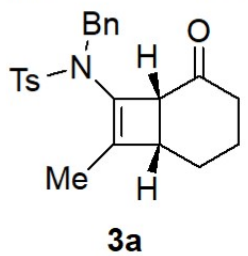
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144.026
136.641
136.462
129.853
128.624
127.942
127.743
127.629
126.745

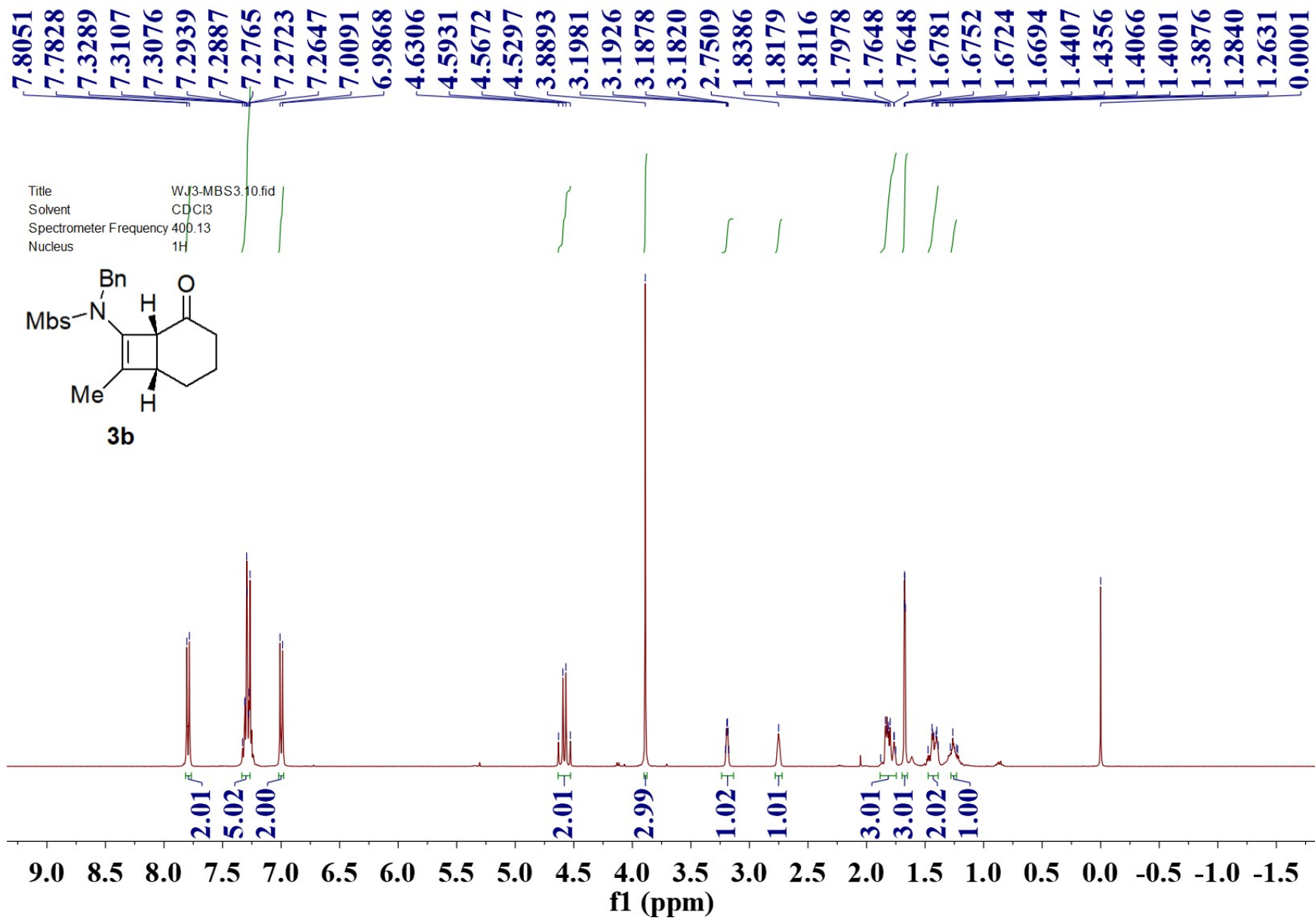
77.518
77.201
76.882

53.933
51.288
40.499
38.569

23.791
21.811
17.122
12.603

Title WJ3-TS2.10.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C





210.675

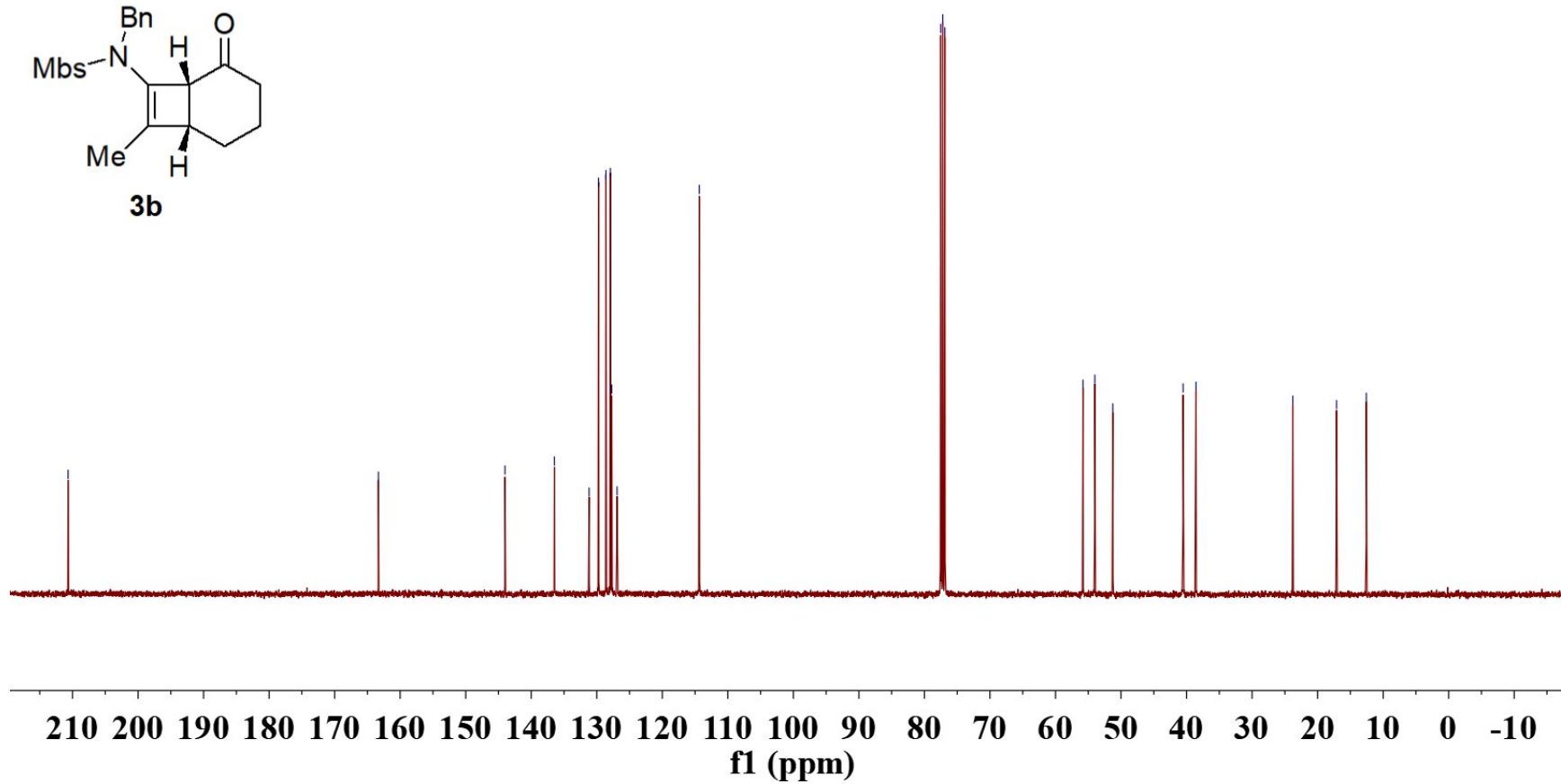
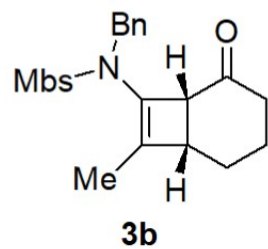
163.321
144.004
136.469
131.164
129.730
128.595
127.925
127.717
126.900
114.355

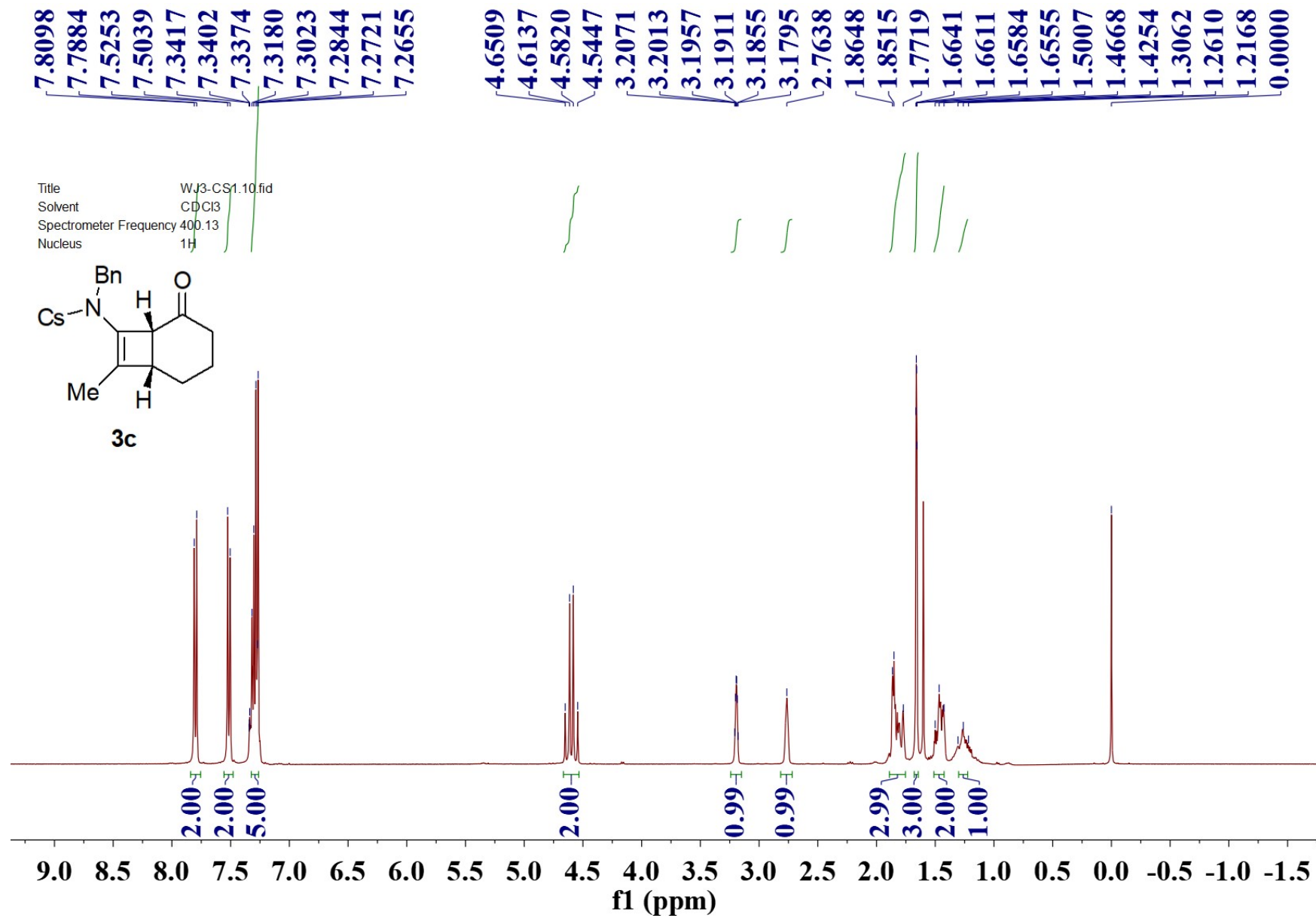
77.518
77.200
76.883

55.806
53.995
51.251
40.525
38.560

23.776
17.108
12.569

Title WJ3-52.10.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C





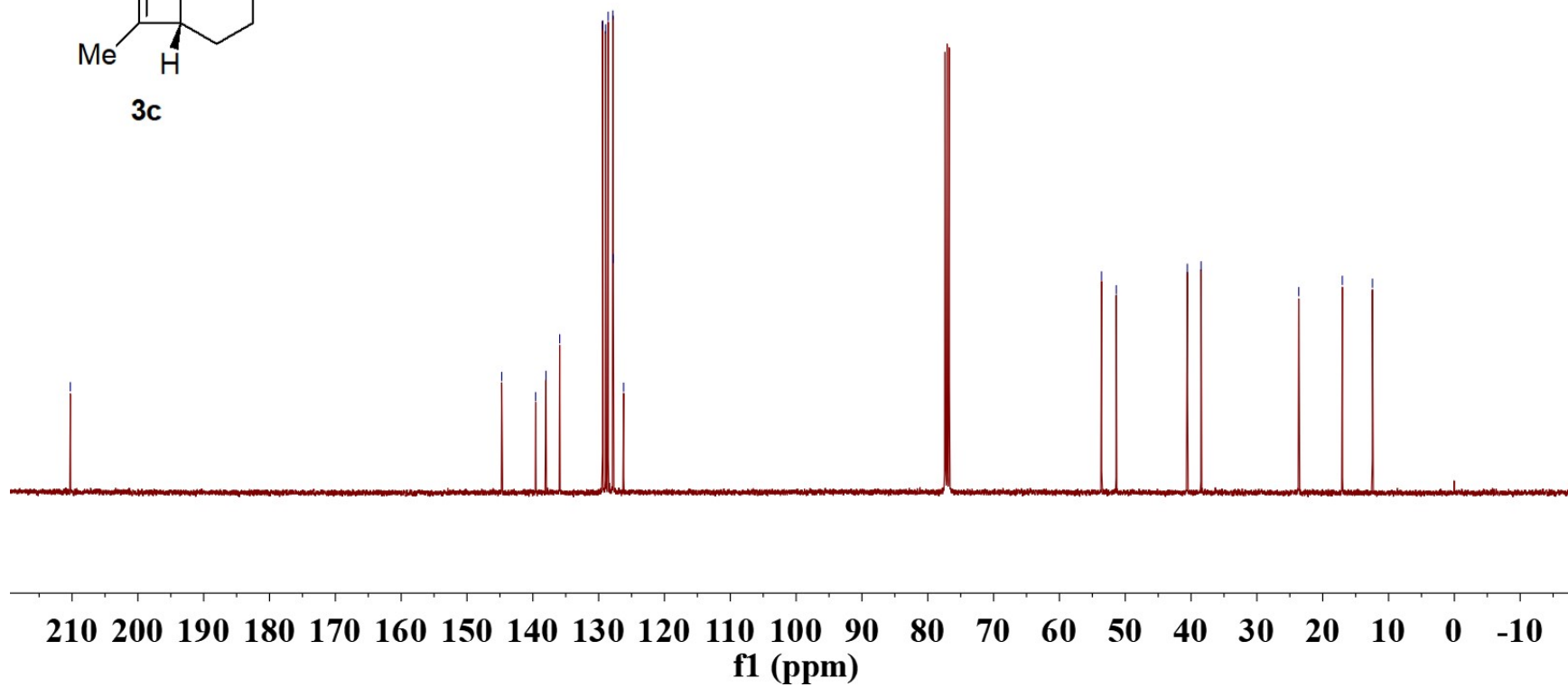
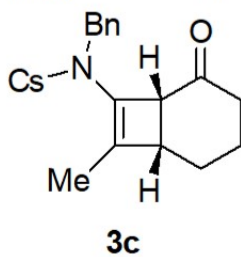
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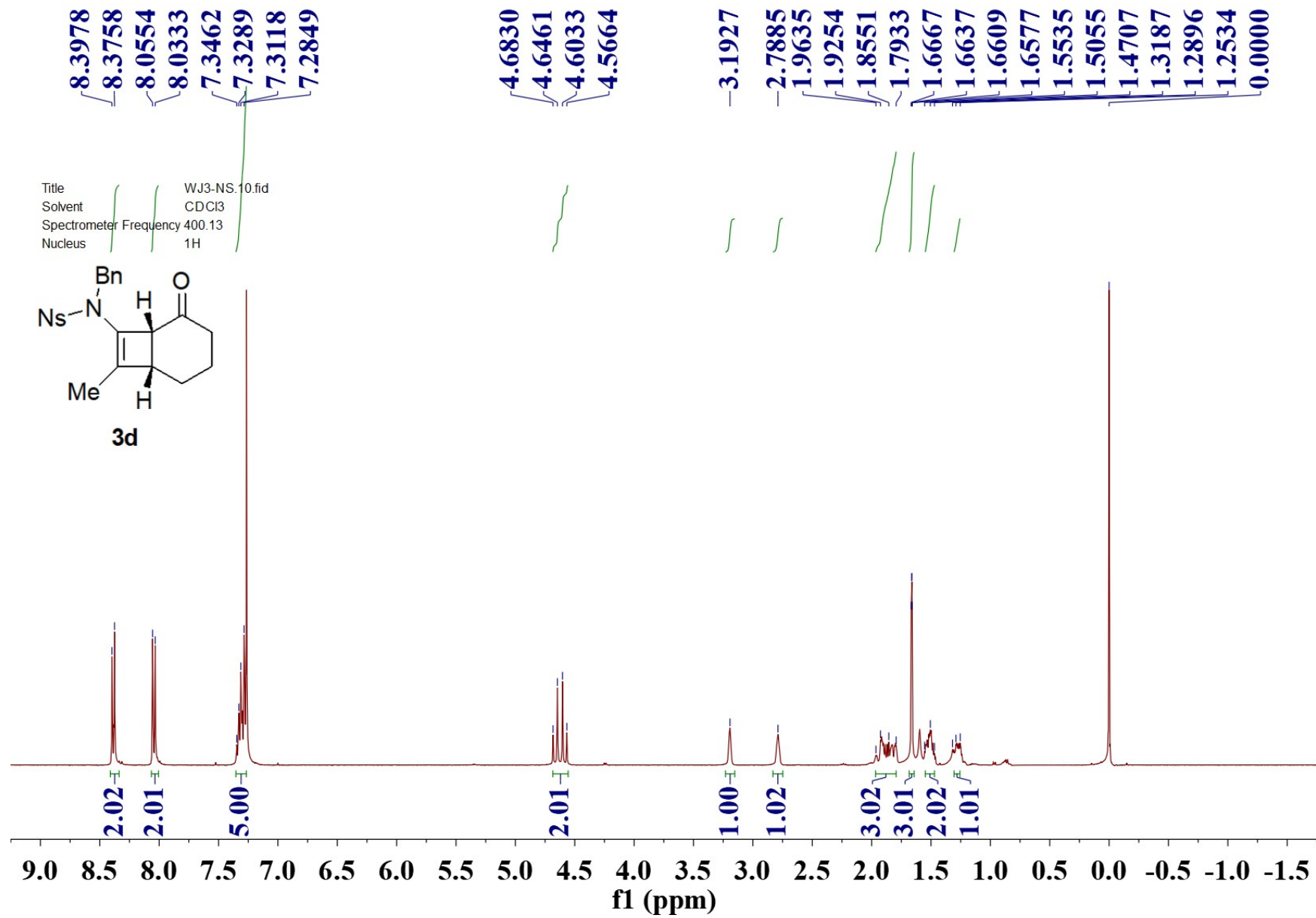
144.726
139.575
138.002
135.918
129.392
128.932
128.558
127.840
127.789
126.209

53.608
51.362
40.569
38.475

23.643
17.020
12.445

Title WJ4-CS.10.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C





210.115

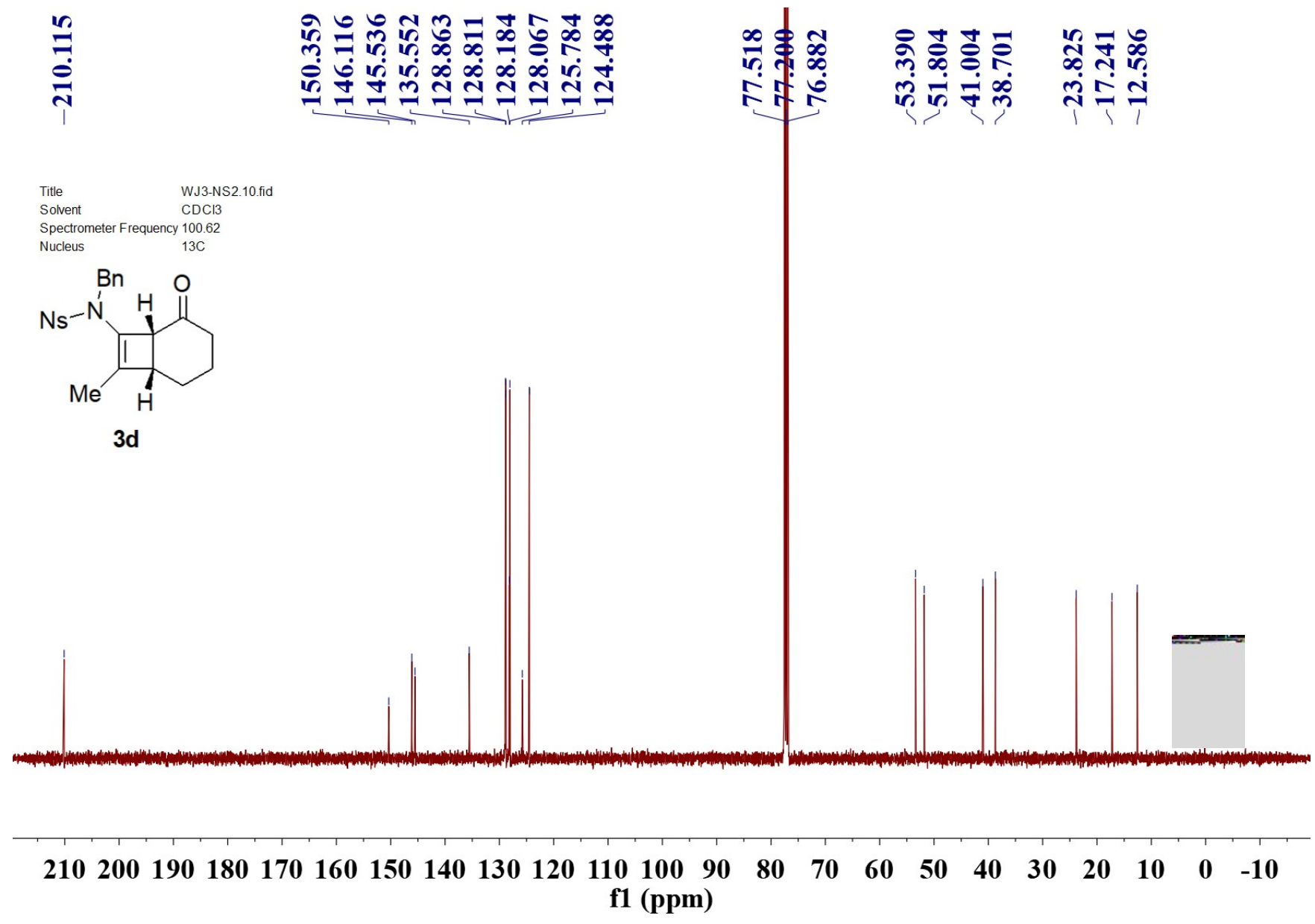
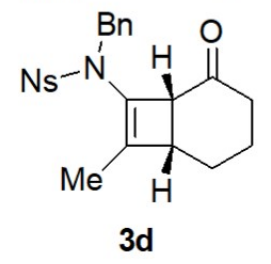
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145.536
135.552
128.863
128.811
128.184
128.067
125.784
124.488

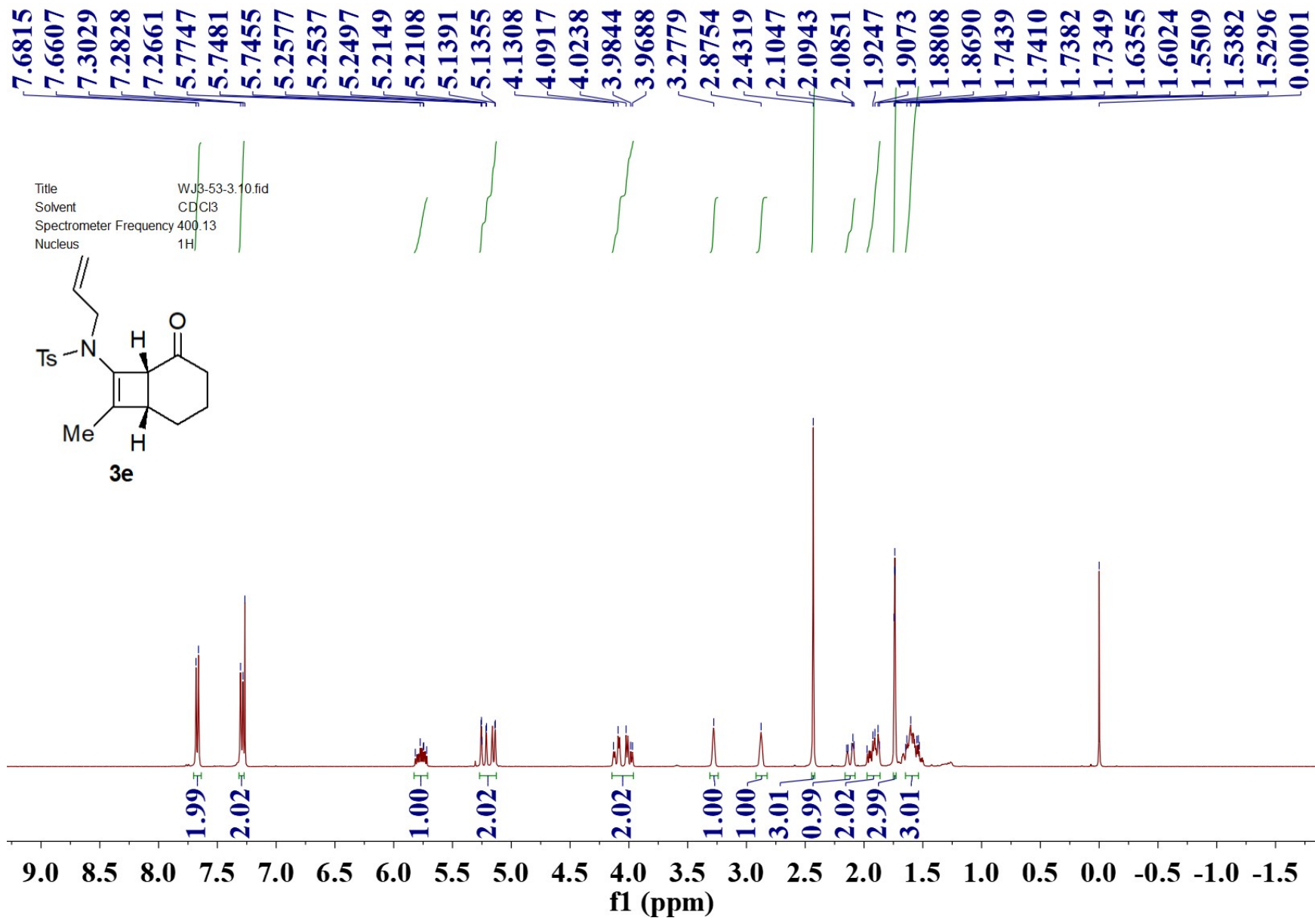
77.518
77.200
76.882

53.390
51.804
41.004
38.701

23.825
17.241
12.586

Title WJ3-NS2.10.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C





-210.544

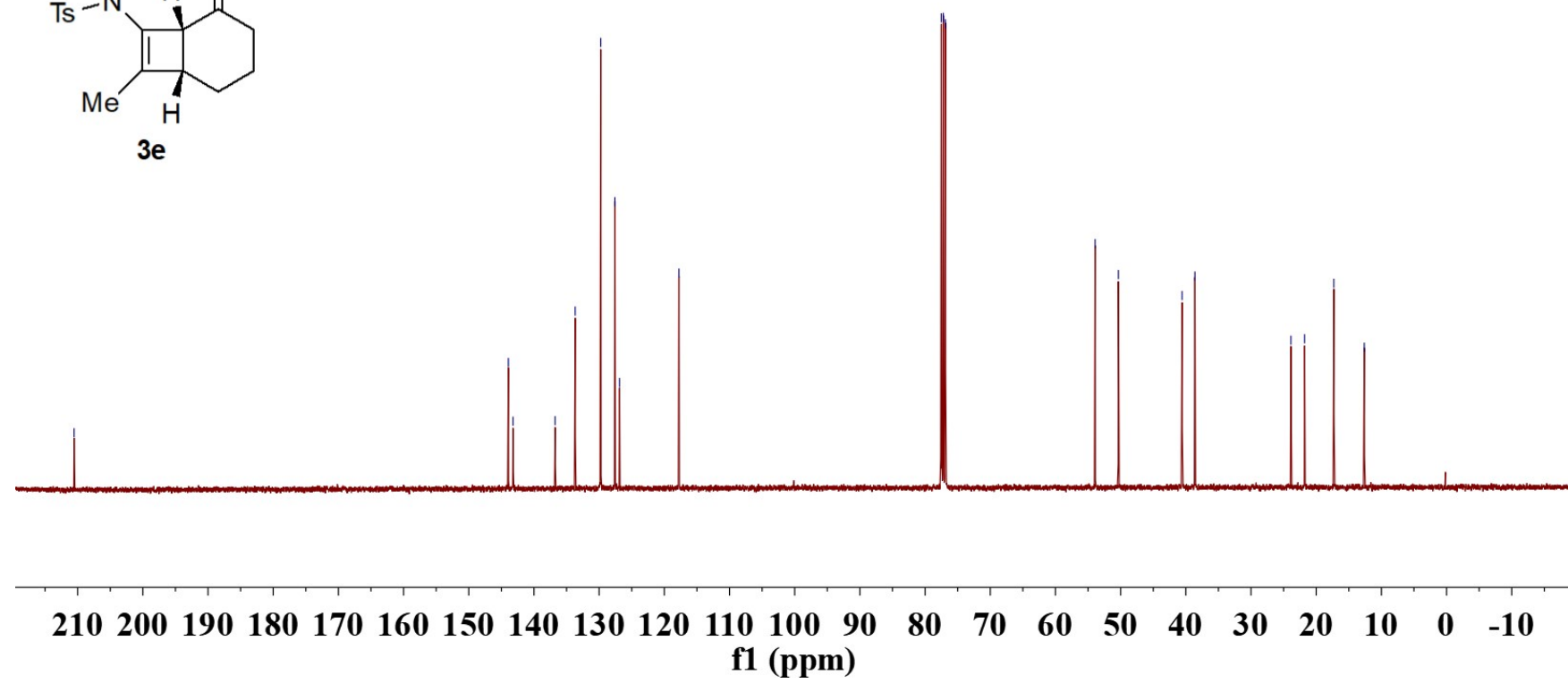
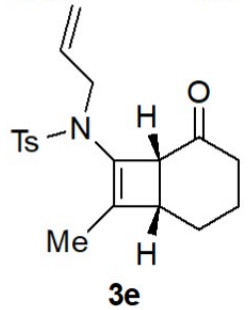
143.927
143.210
136.755
133.674
129.752
127.586
126.873
117.765

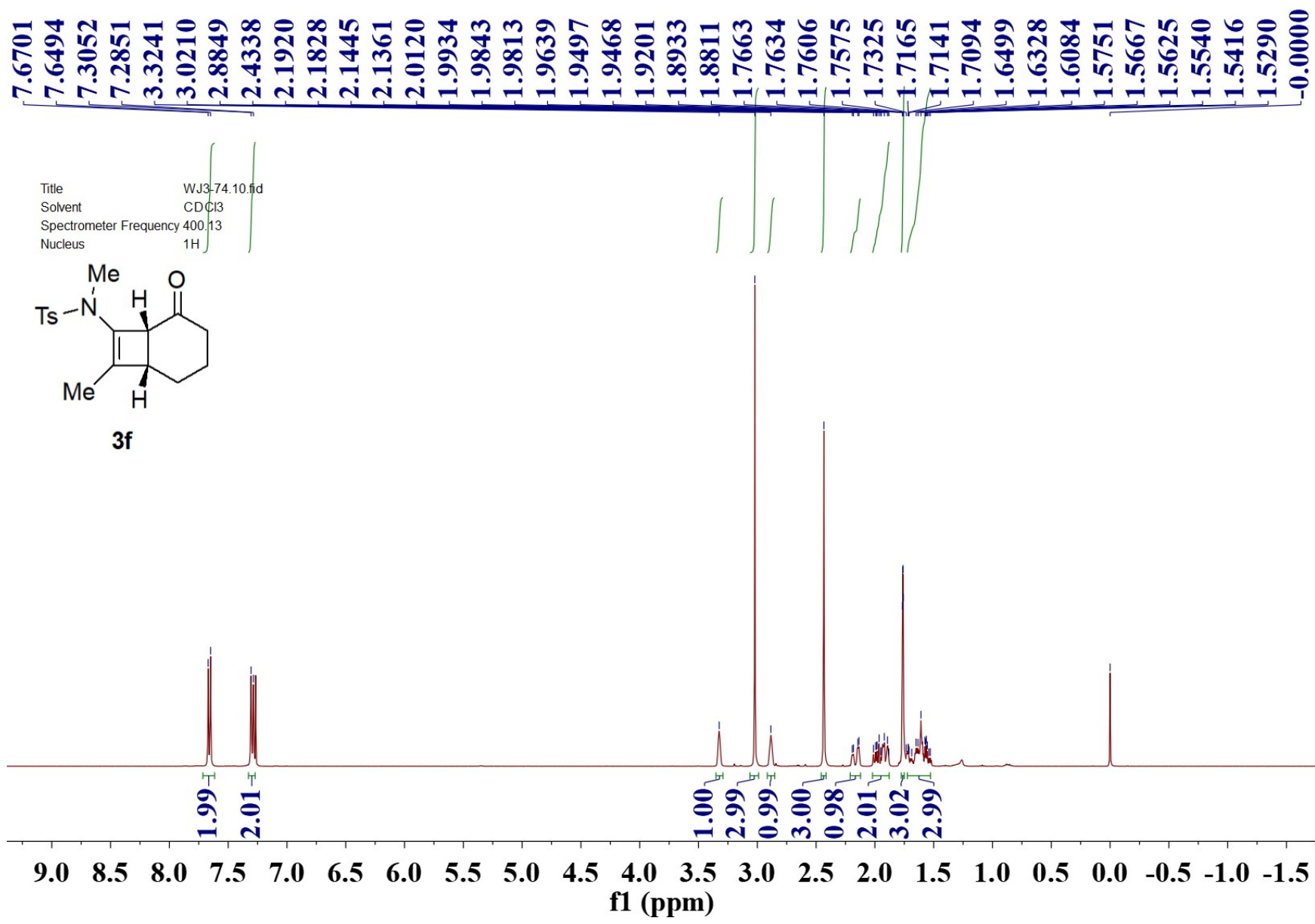
77.519
77.202
76.885

53.920
50.346
40.574
38.604

23.882
21.779
17.298
12.623

Title WJ3-YX2.10.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C





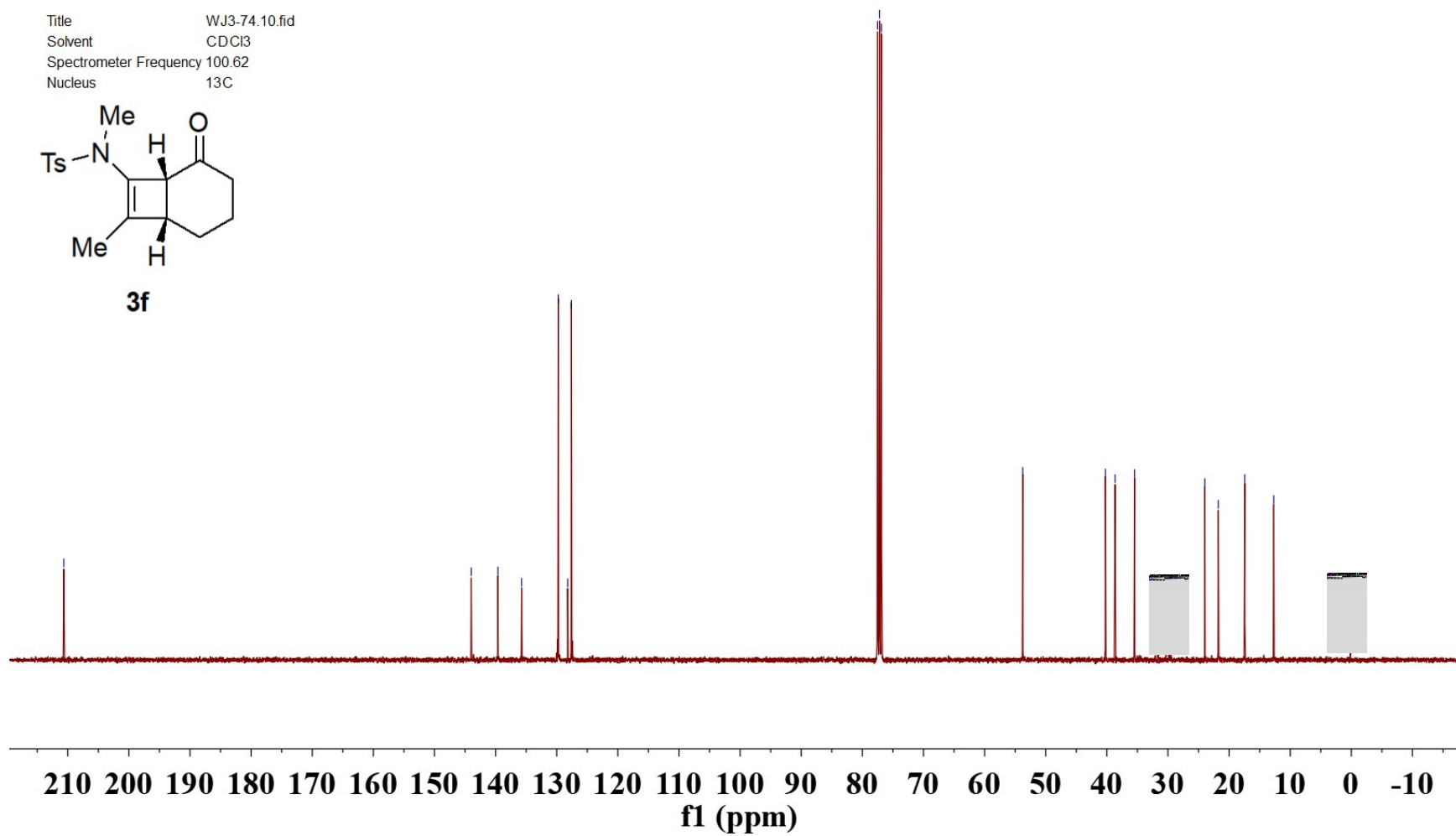
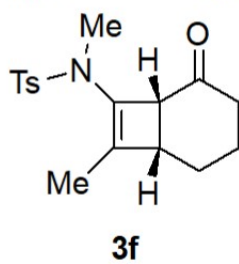
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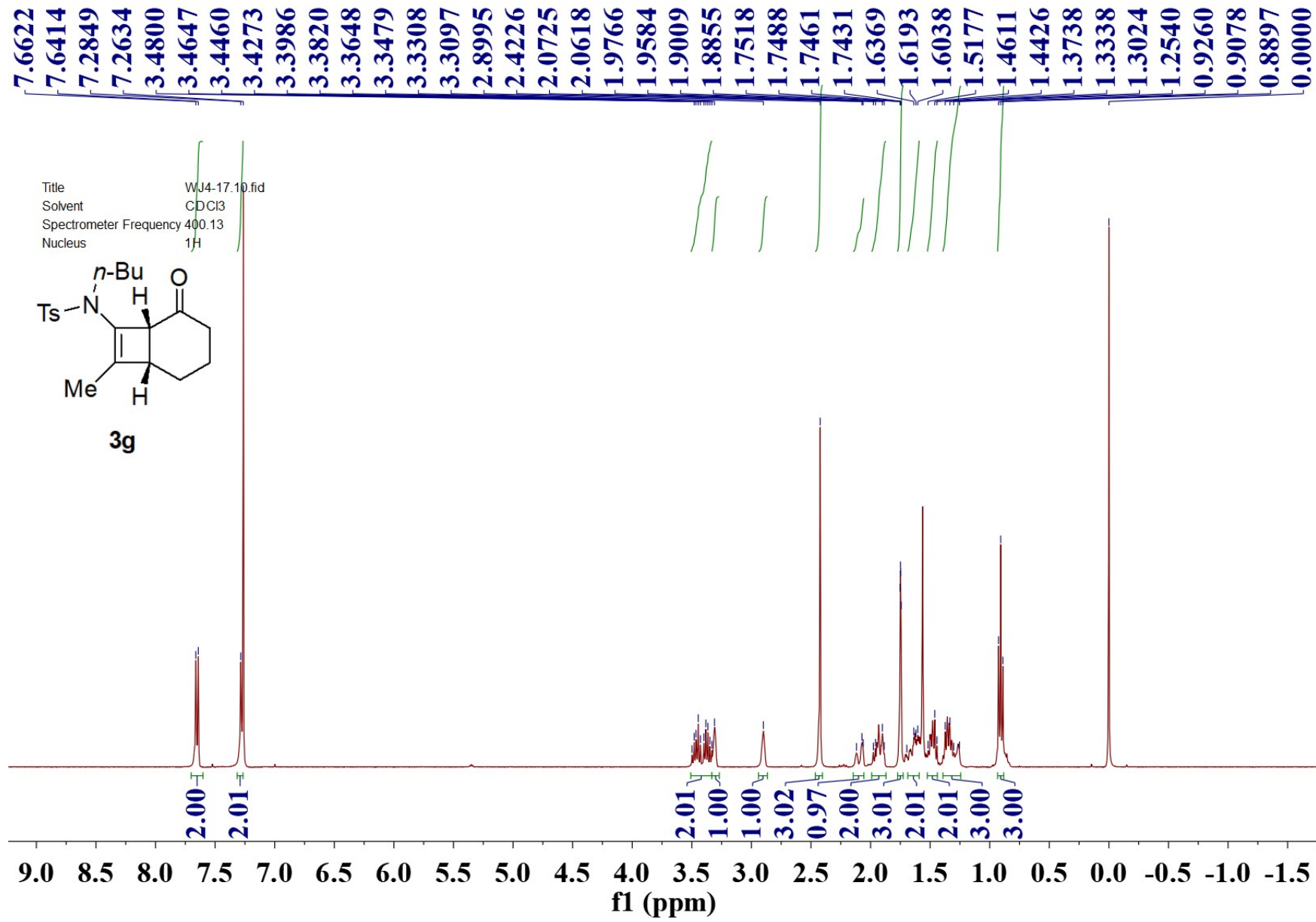
143.981
139.623
135.754
129.746
128.209
127.599

77.517
77.200
76.883

53.758
40.234
38.653
35.466
23.969
21.770
17.440
12.695

Title WJ3-74.10.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C



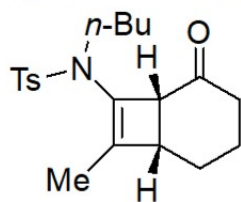


210.359

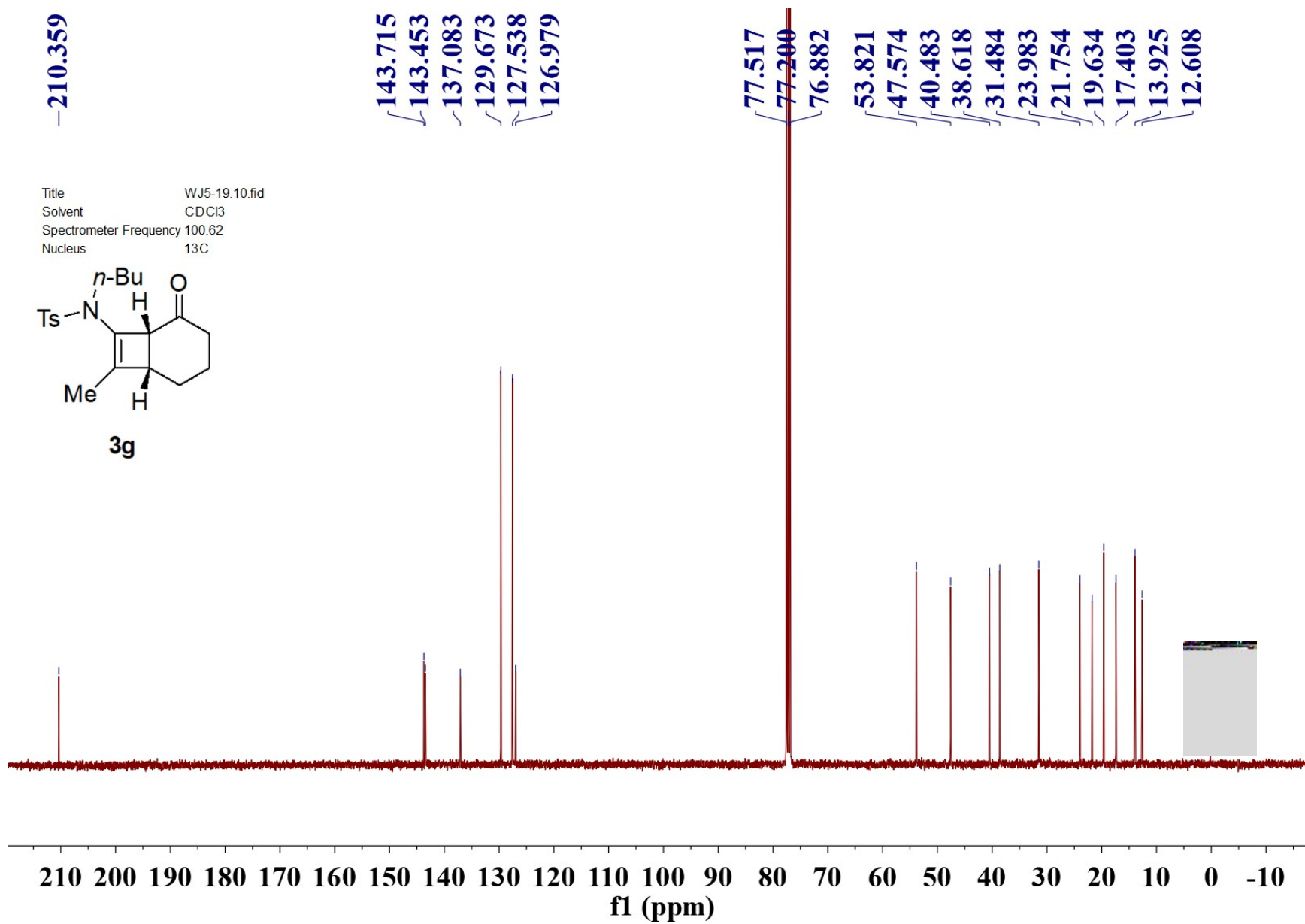
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143.453
137.083
129.673
127.538
126.979

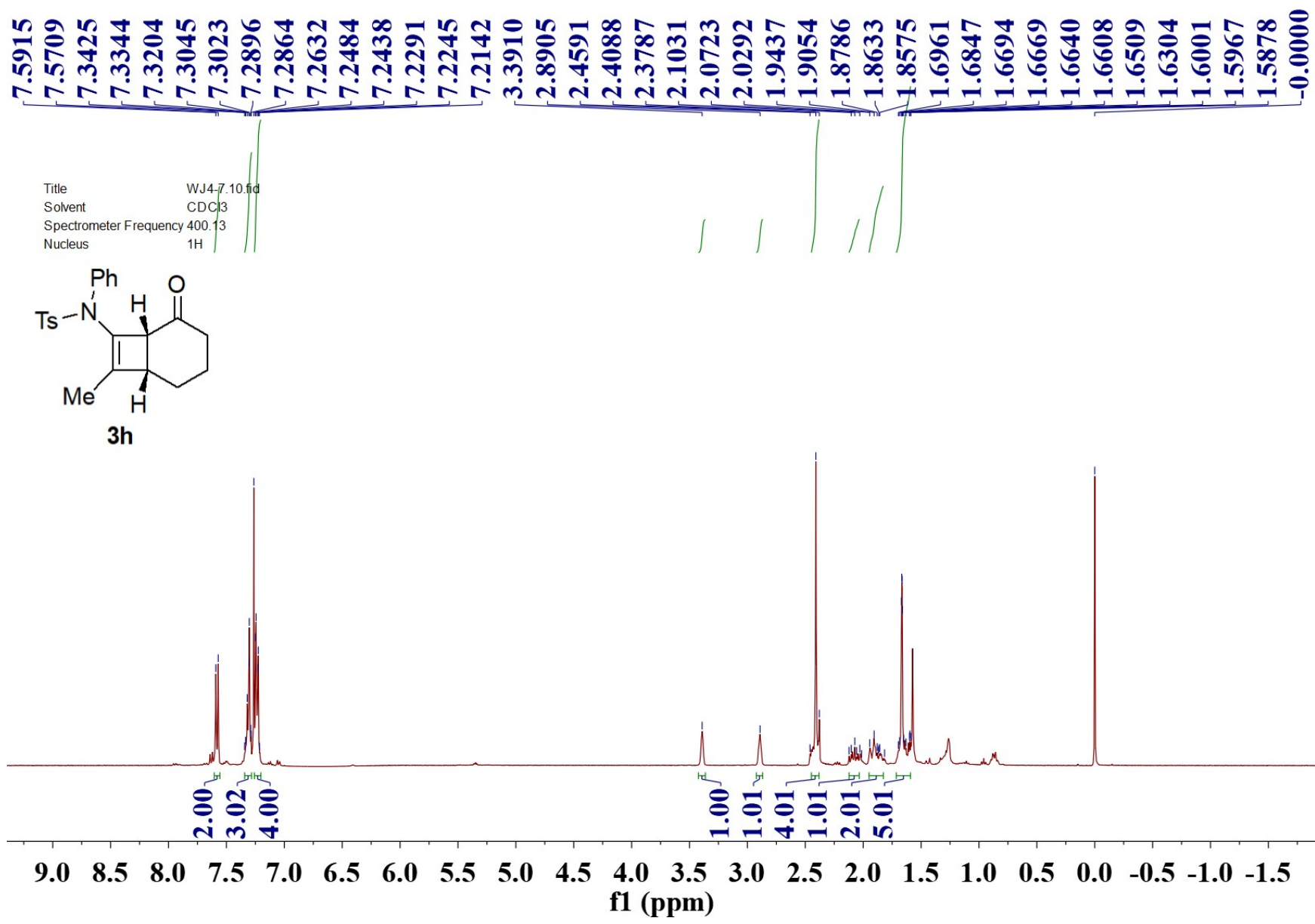
77.517
77.200
76.882
53.821
47.574
40.483
38.618
31.484
23.983
21.754
19.634
17.403
13.925
12.608

Title WJ5-19.10.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C



3g





210.939

143.957
142.875
138.351
136.780
129.651
129.541
129.409
129.022
128.399
128.146

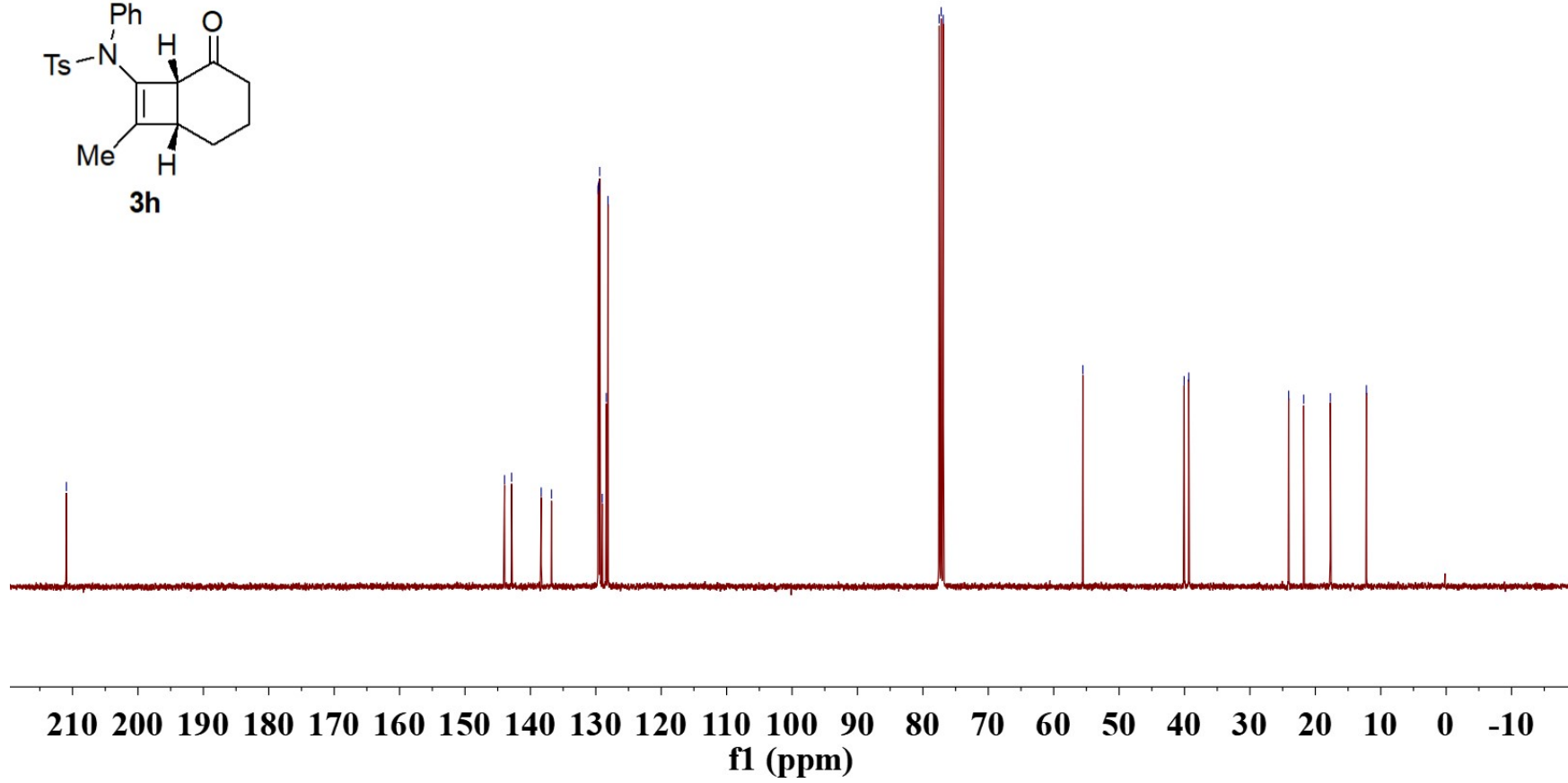
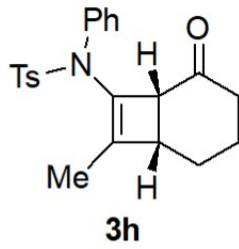
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76.884

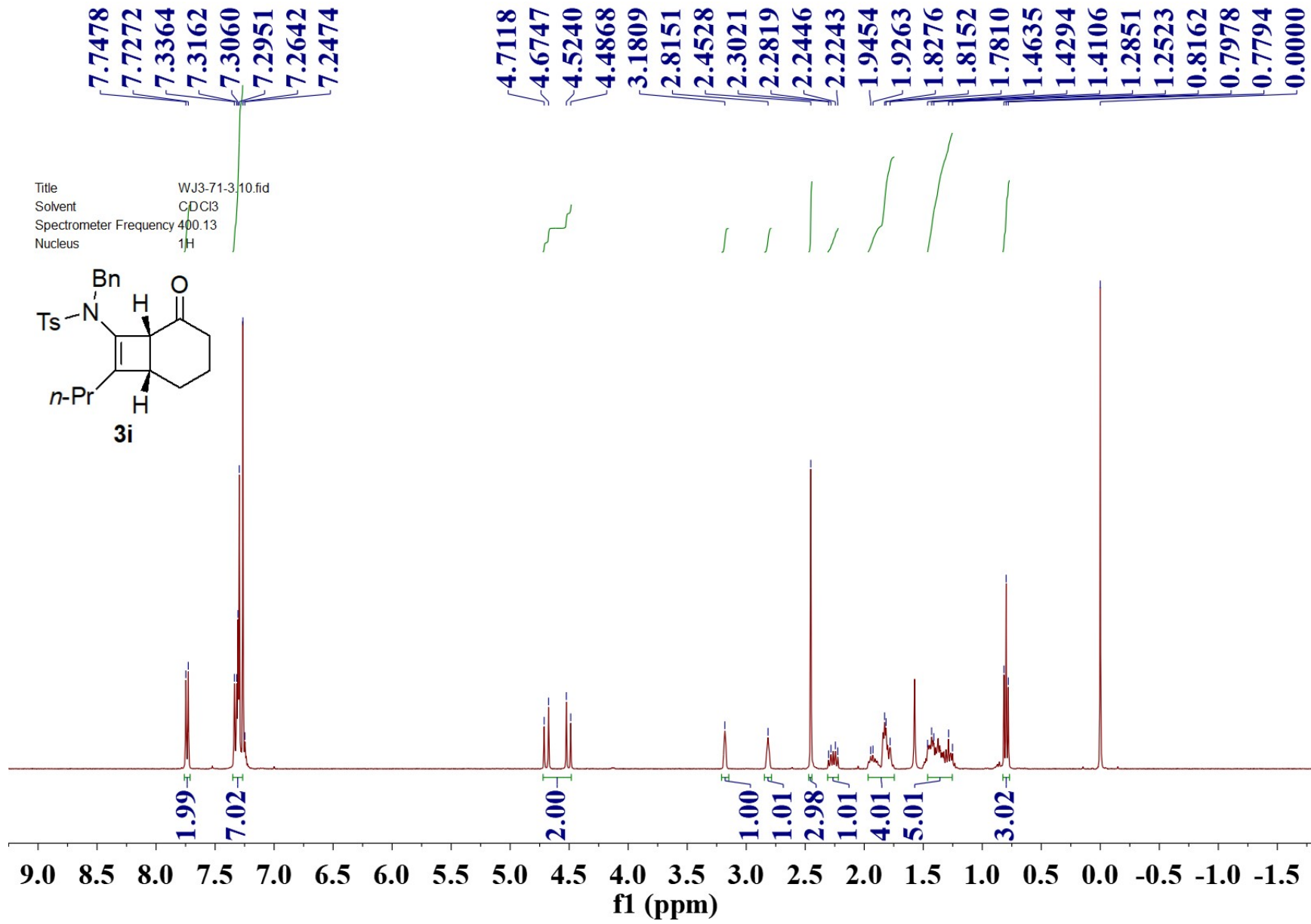
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40.060
39.345

24.076
21.779
17.705
12.195

Title WJ4-7-3.10.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C





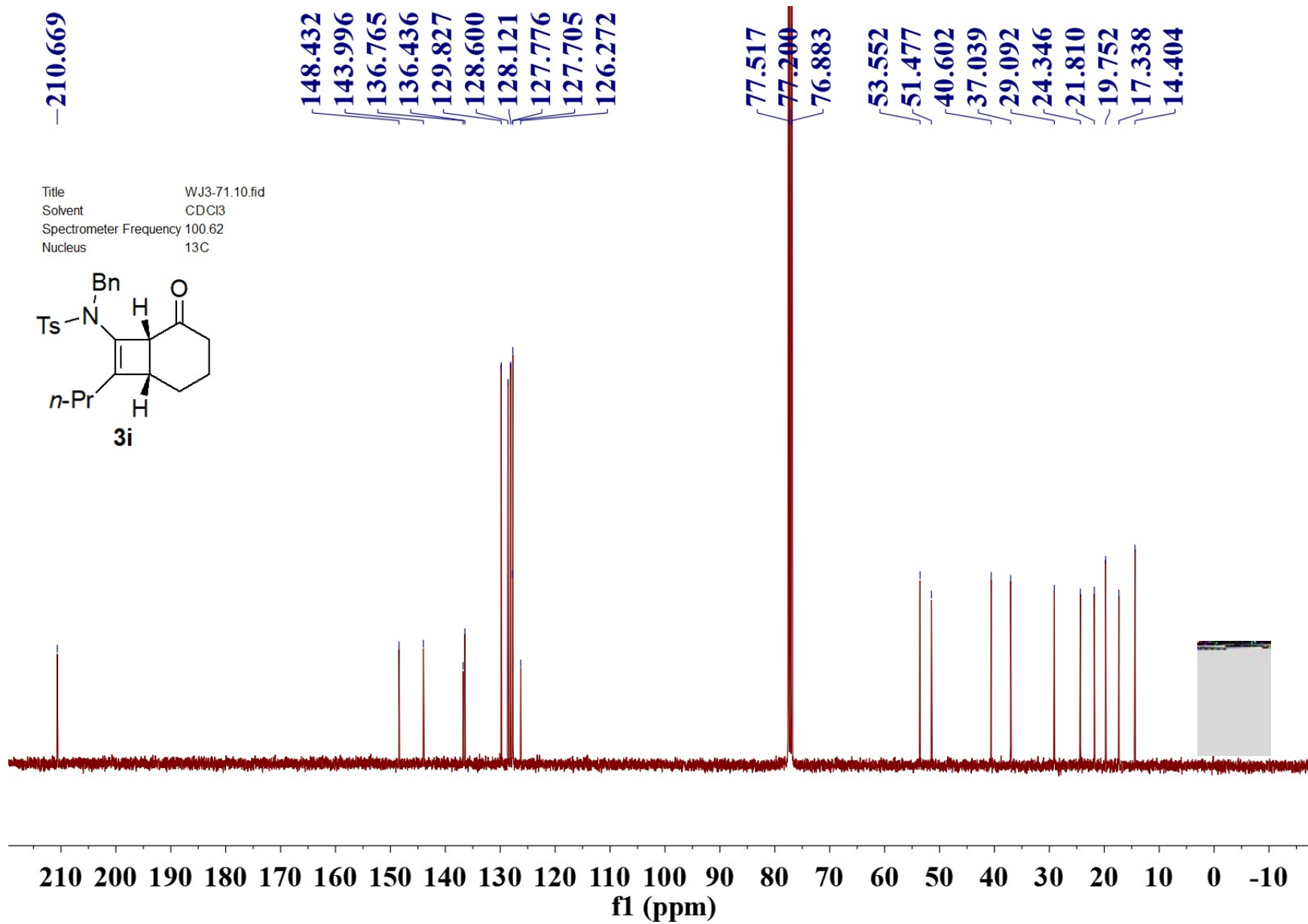
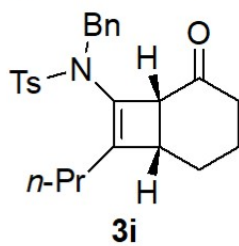
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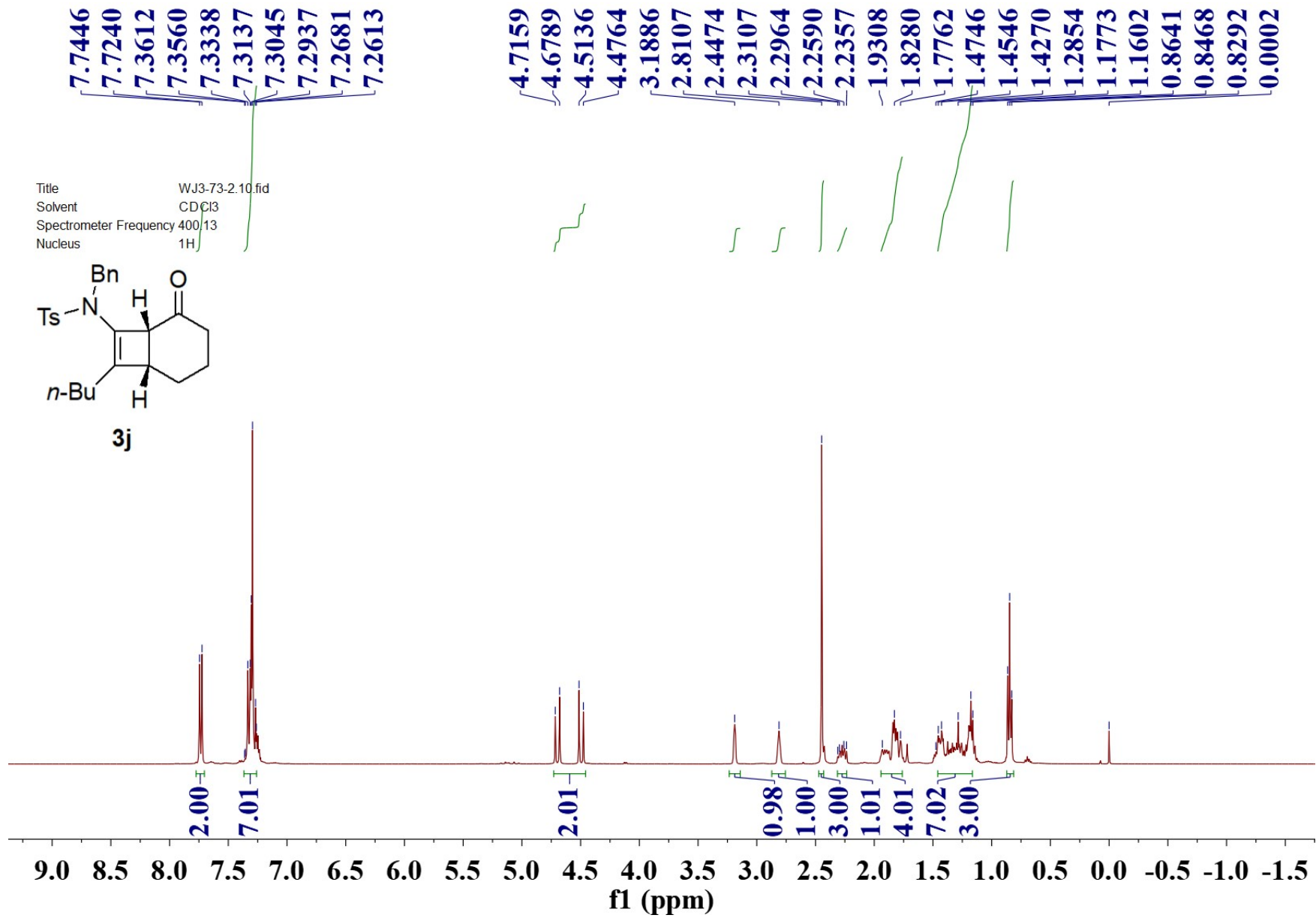
148.432
143.996
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136.436
129.827
128.600
128.121
127.776
127.705
126.272

77.517
77.200
76.883

53.552
51.477
40.602
37.039
29.092
24.346
21.810
19.752
17.338
14.404

Title WJ3-71.10.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C



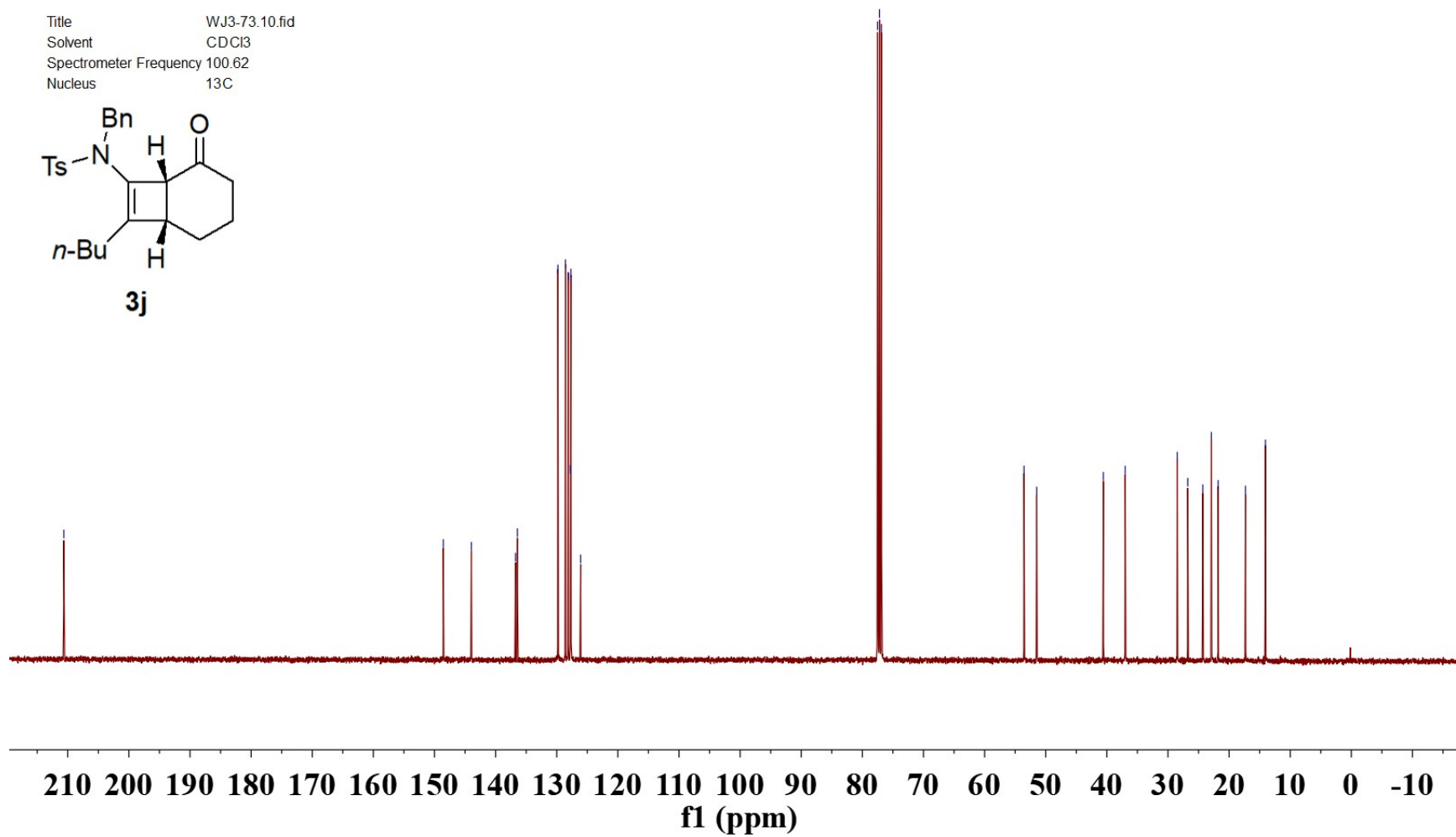
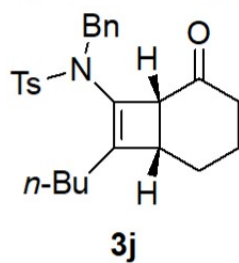


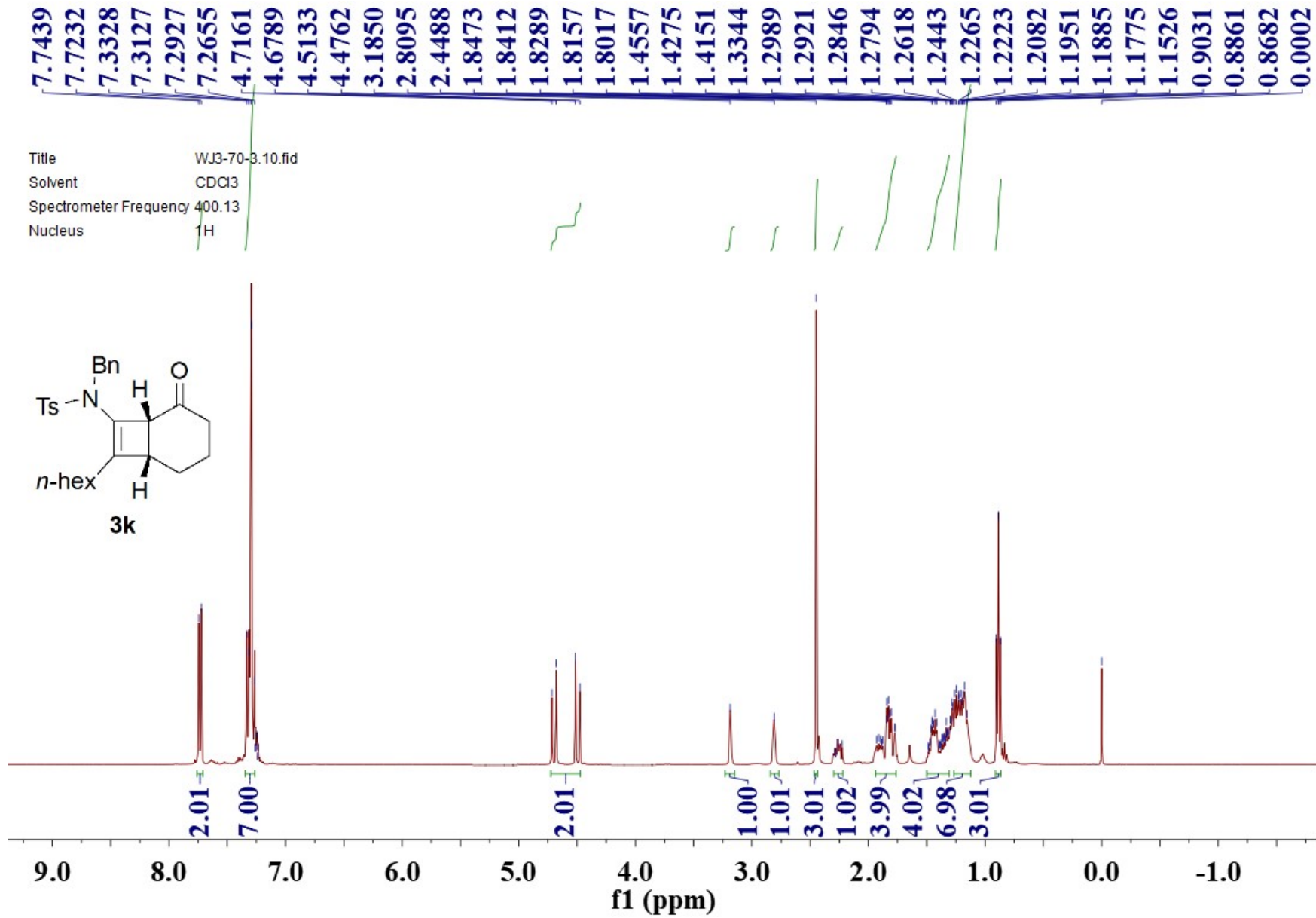
210.643

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129.808
128.577
128.126
127.764
127.683
126.095

77.517
77.200
76.882
53.553
51.477
40.576
37.000
28.478
26.763
24.299
22.907
21.789
17.318
14.054

Title WJ3-73.10.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C



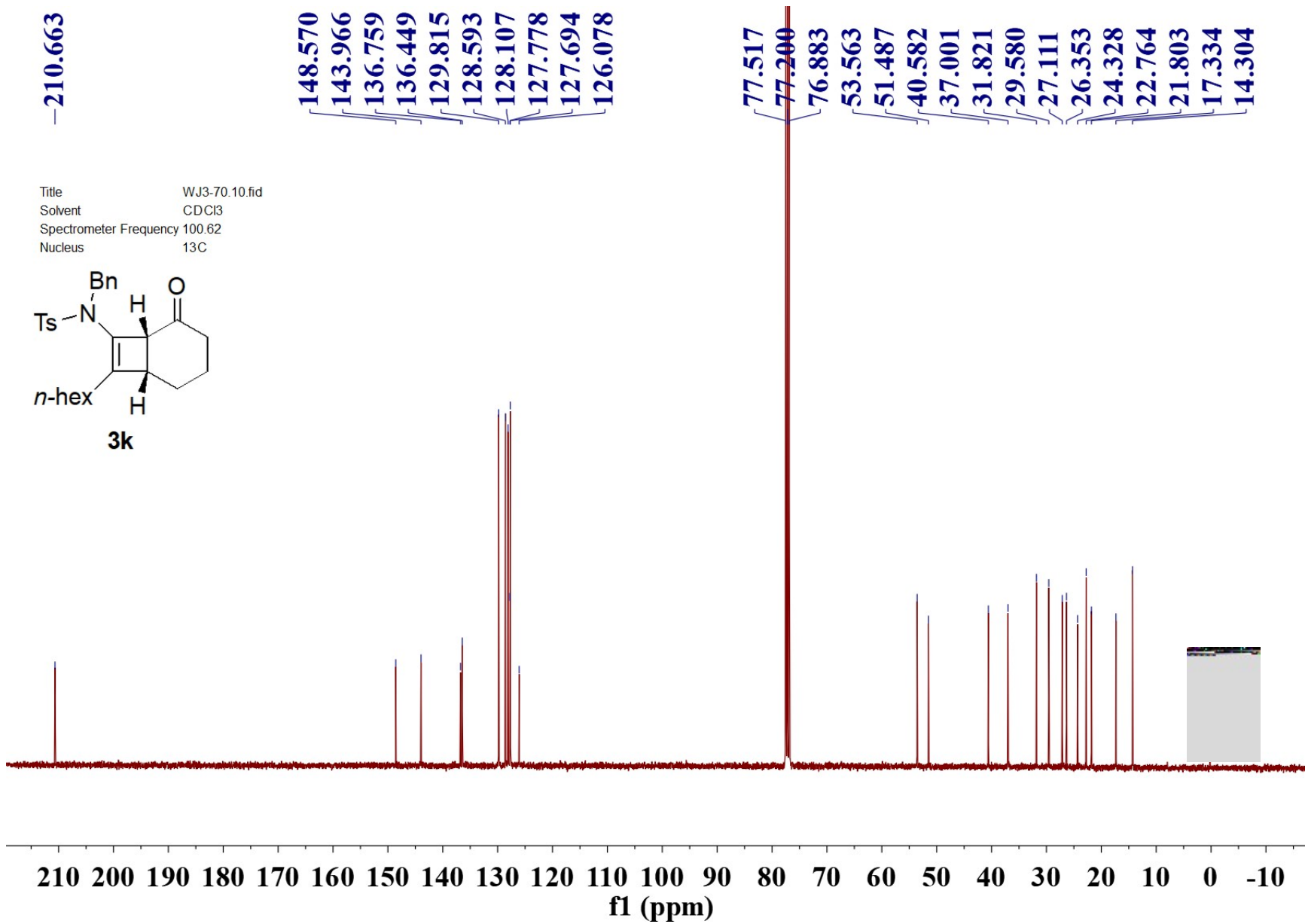
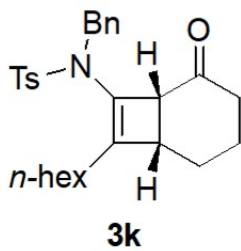


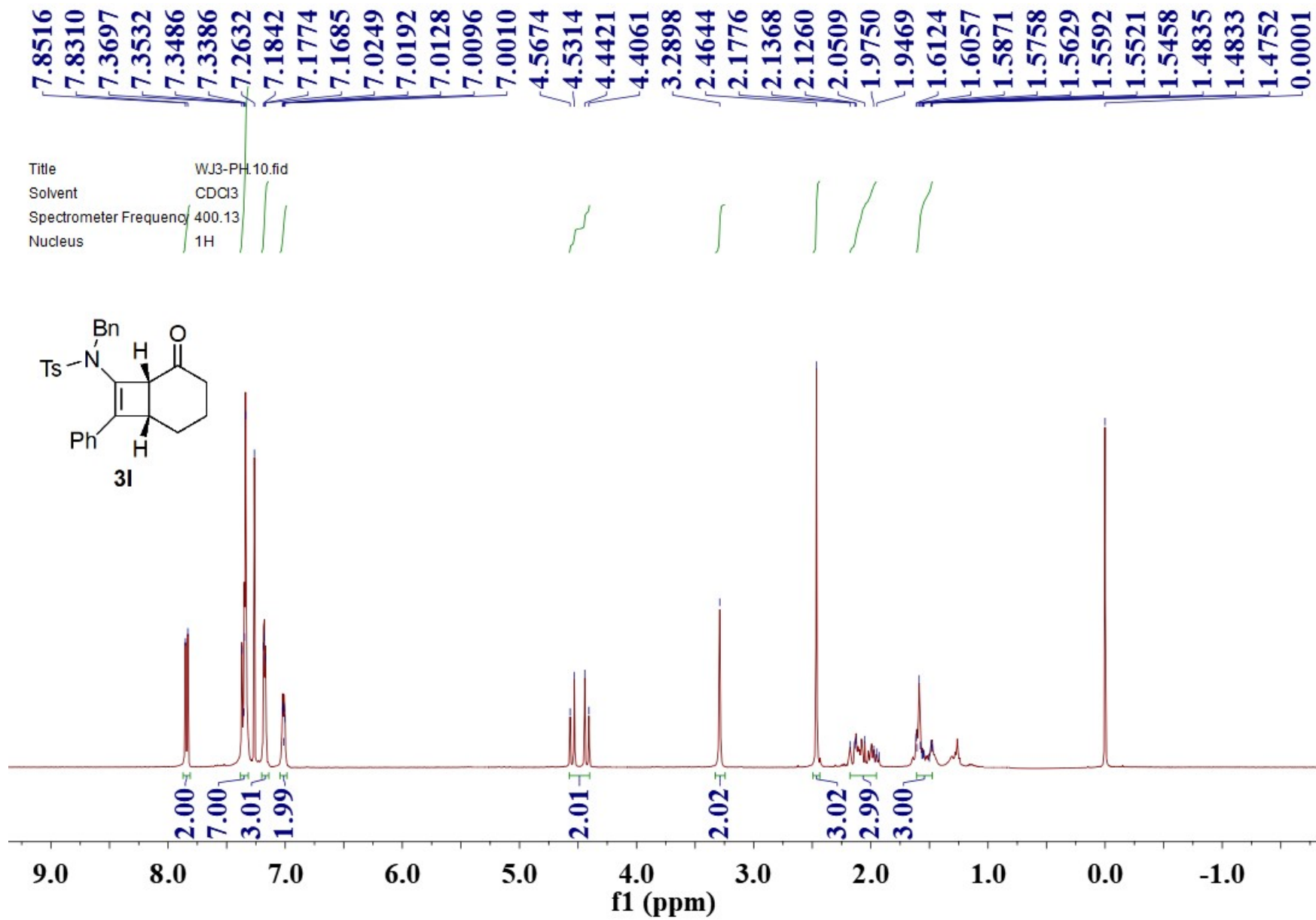
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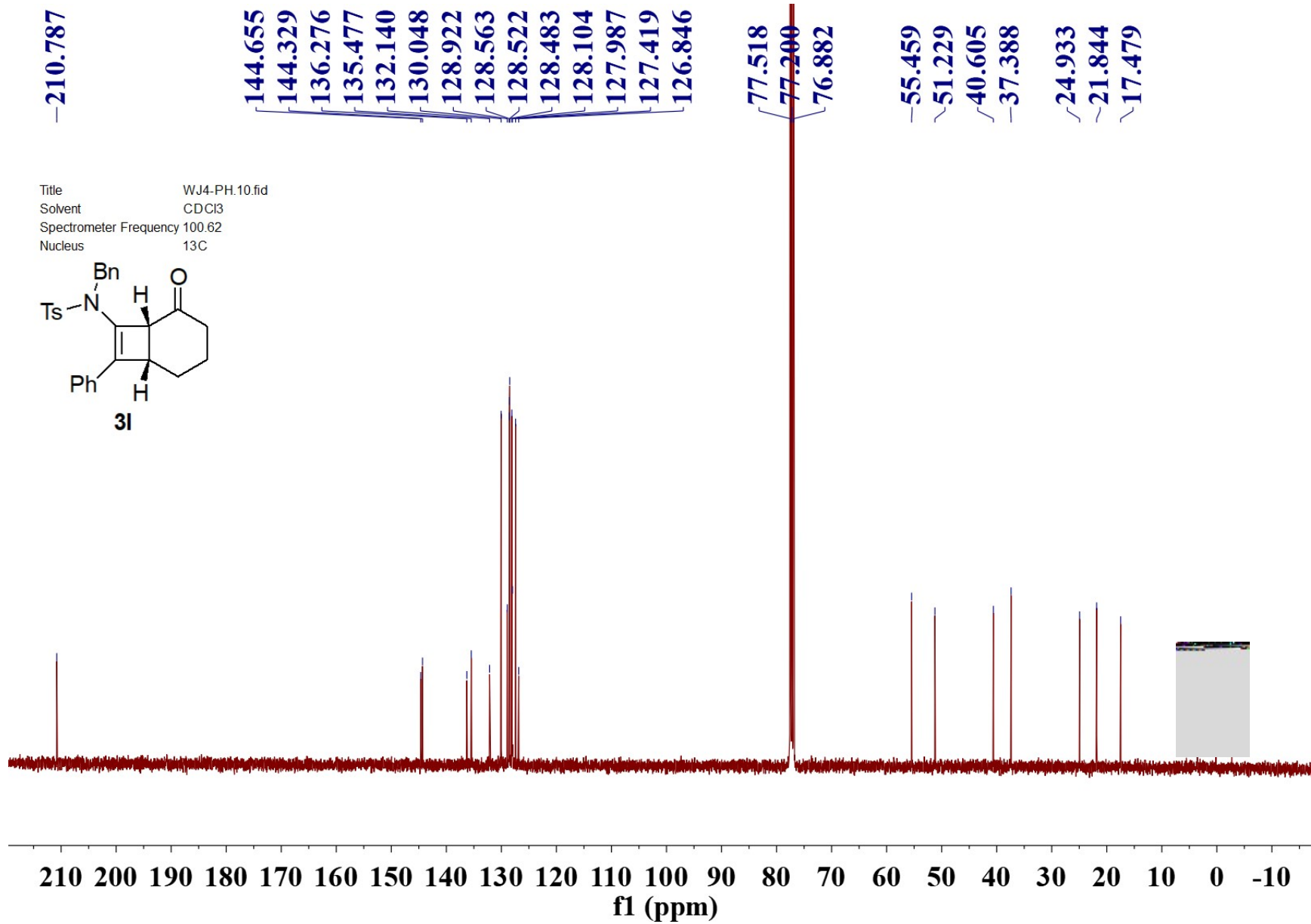
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136.449
129.815
128.593
128.107
127.778
127.694
126.078

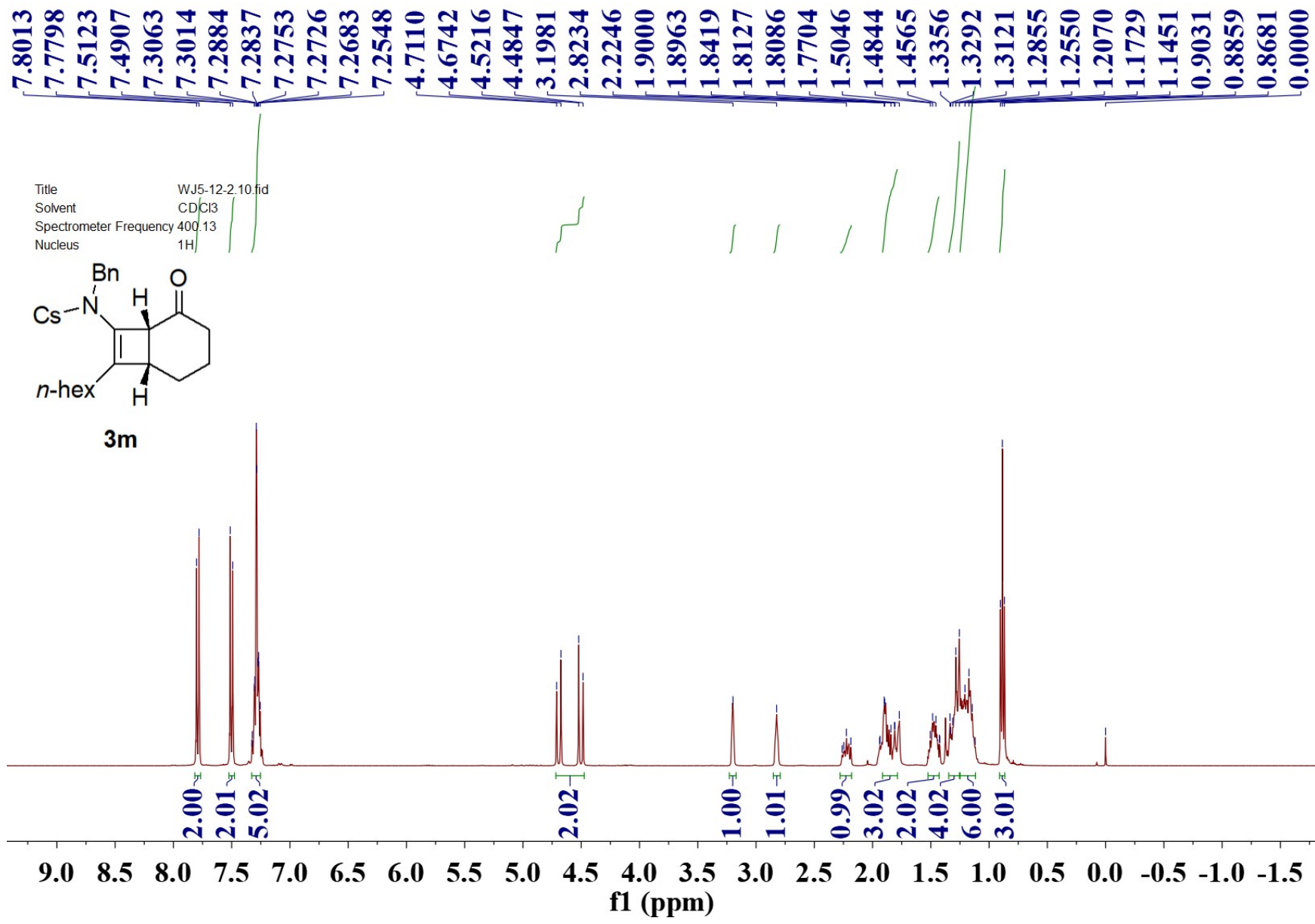
77.517
77.200
76.883
53.563
51.487
40.582
37.001
31.821
29.580
27.111
26.353
24.328
22.764
21.803
17.334
14.304

Title WJ3-70.10.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C







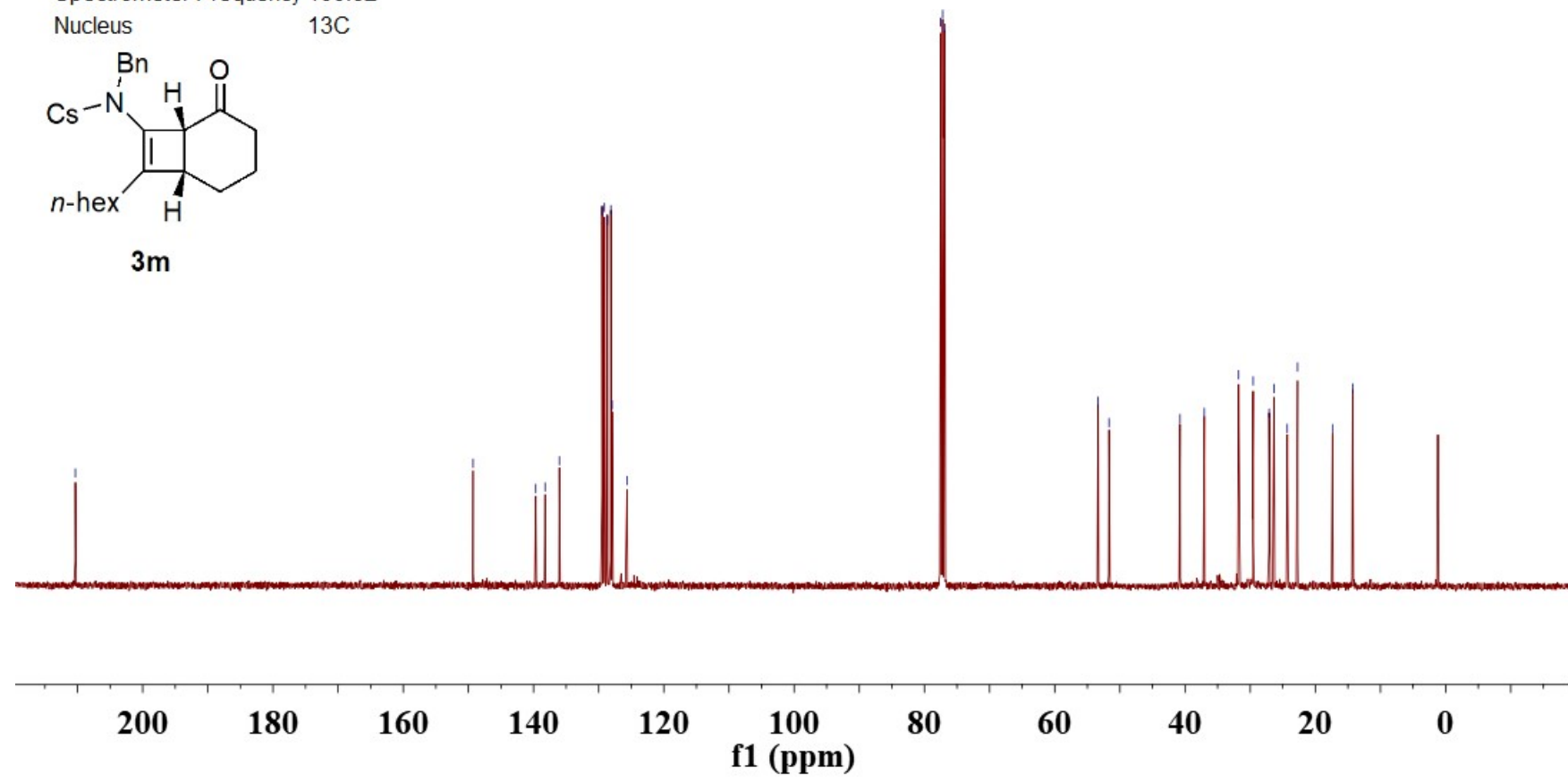
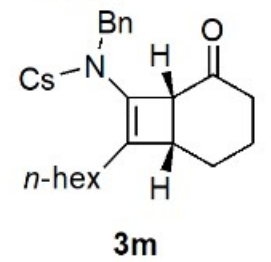


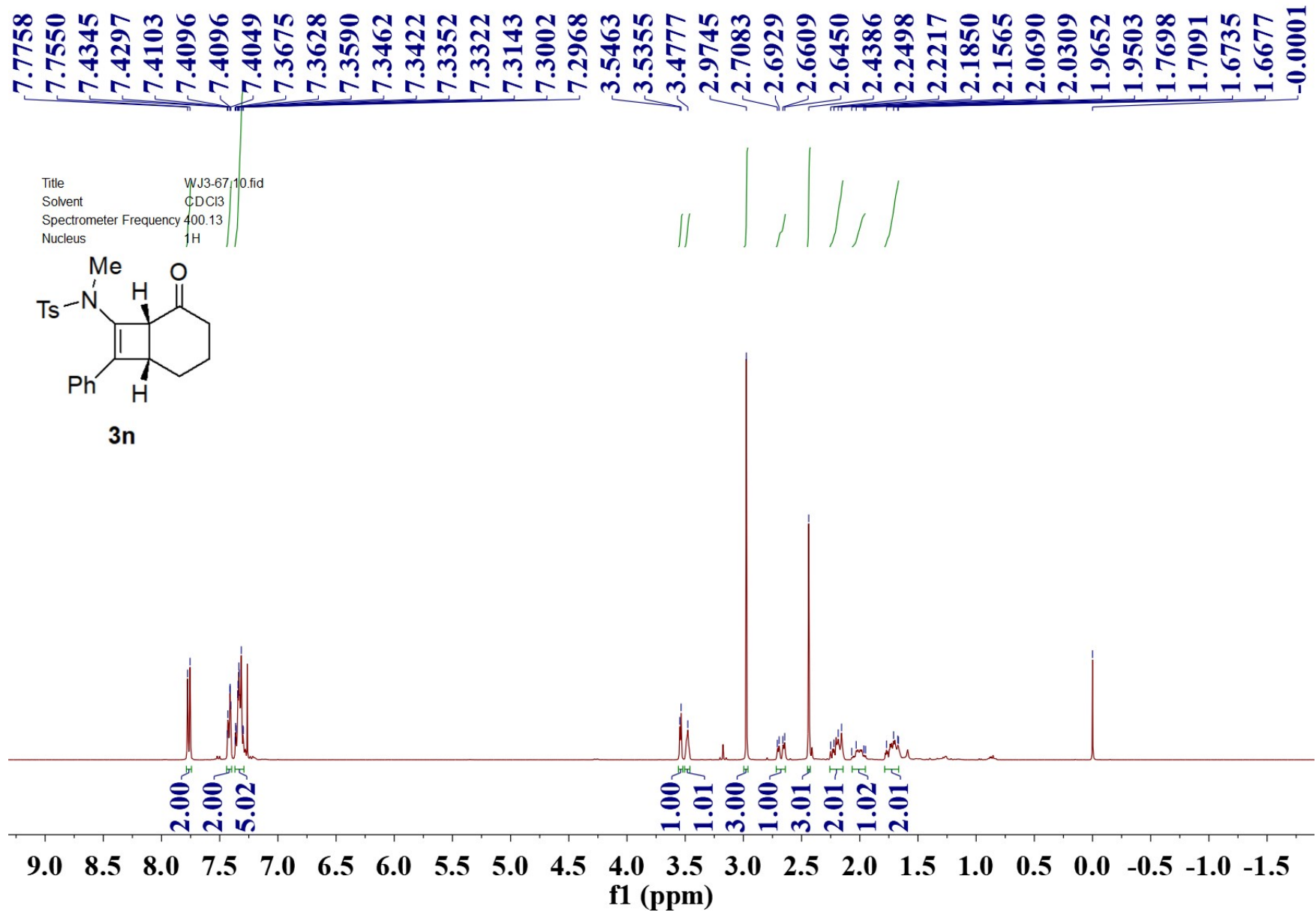
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138.224
136.034
129.480
129.114
128.656
128.132
127.946
125.653

77.518
77.200
76.882
53.345
51.675
40.772
37.039
31.782
29.543
27.094
26.337
24.310
22.733
17.366
14.277

Title WJ5-12-2.10.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C





210.868

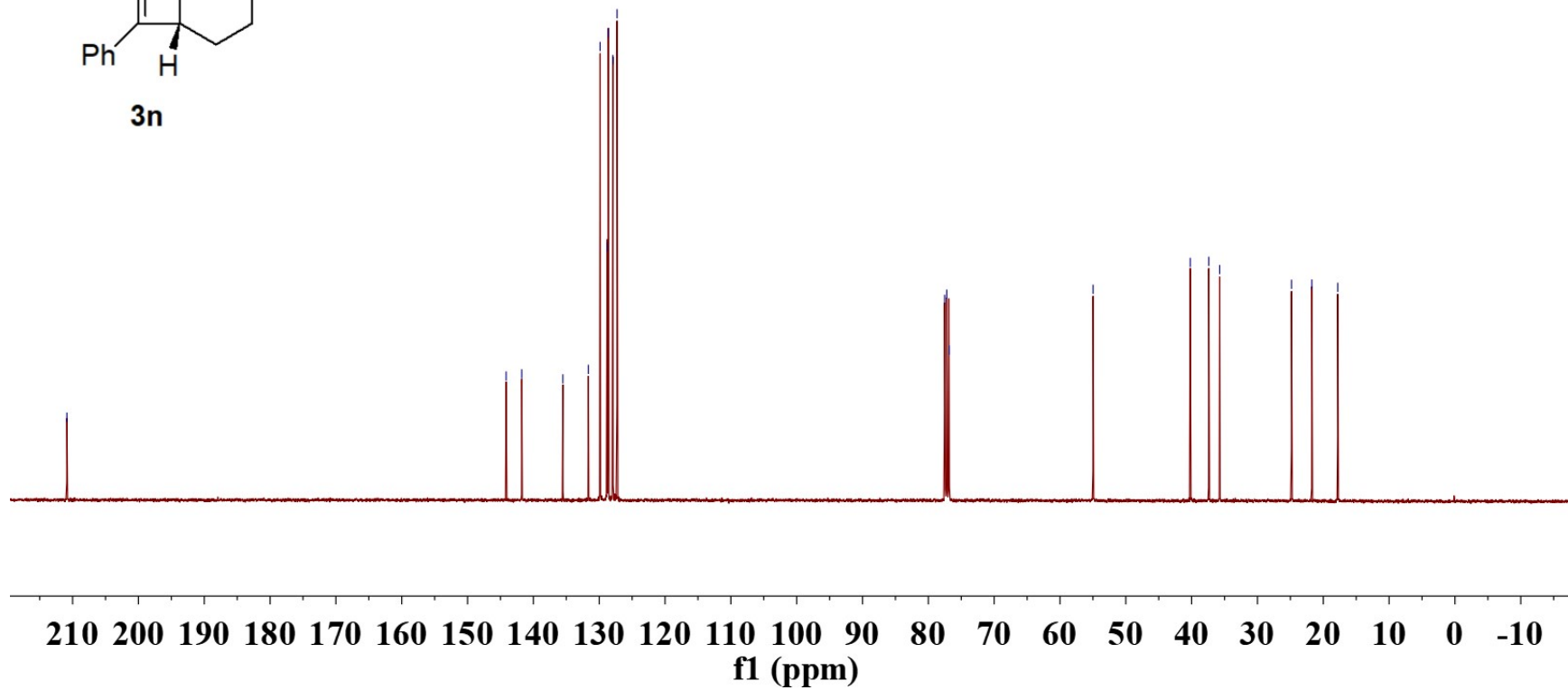
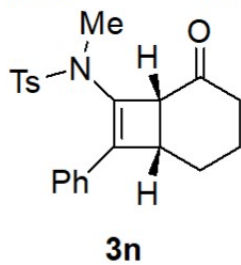
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127.931
127.292

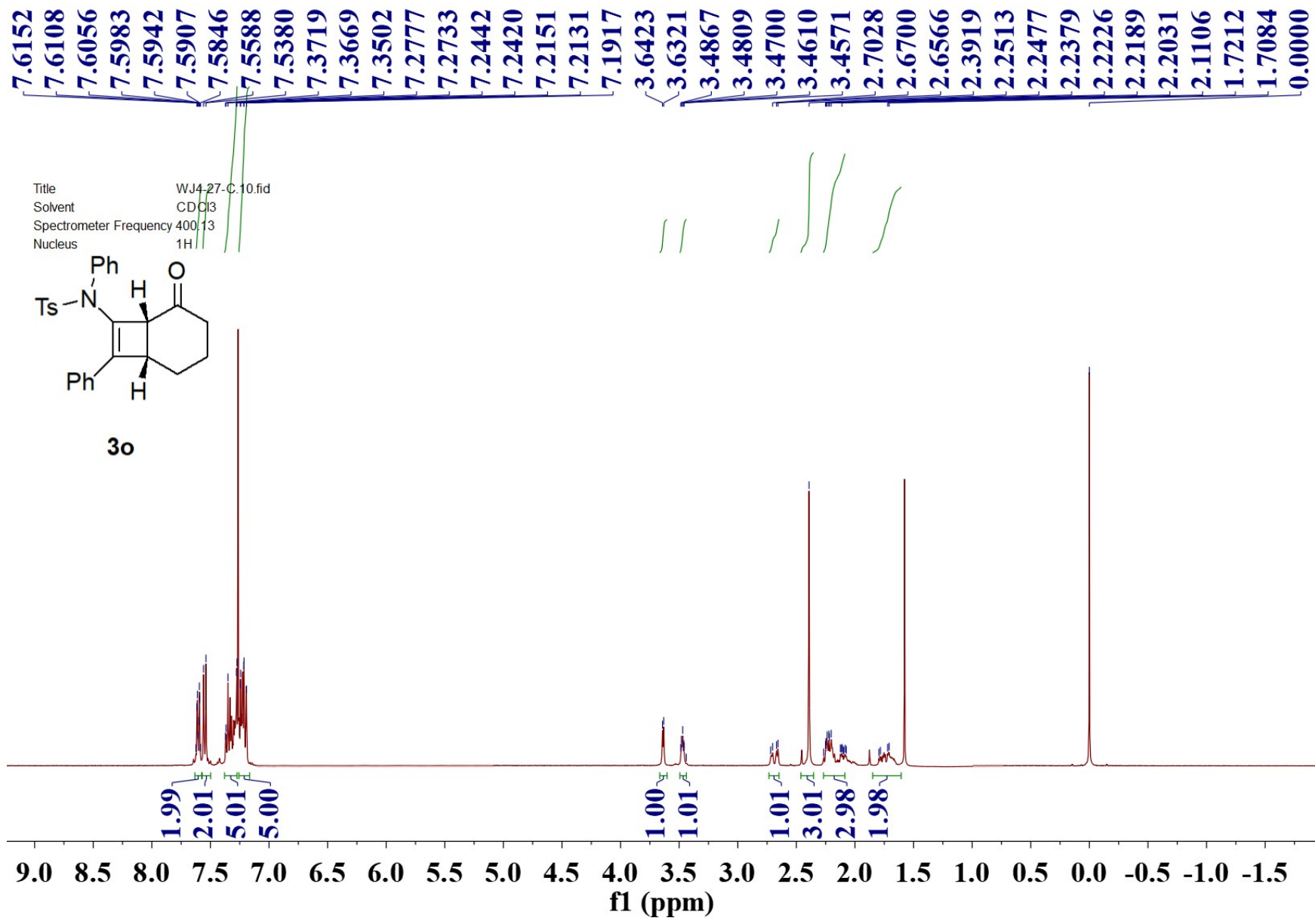
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77.203
76.852

54.974

40.210
37.399
35.741
24.827
21.738
17.801

Title WJ3-67 20.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C





211.249

145.042
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138.471
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131.211
129.504
129.445
129.080
128.684
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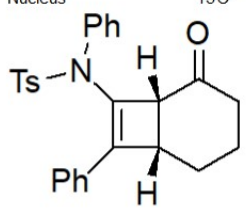
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77.201
76.883

56.067

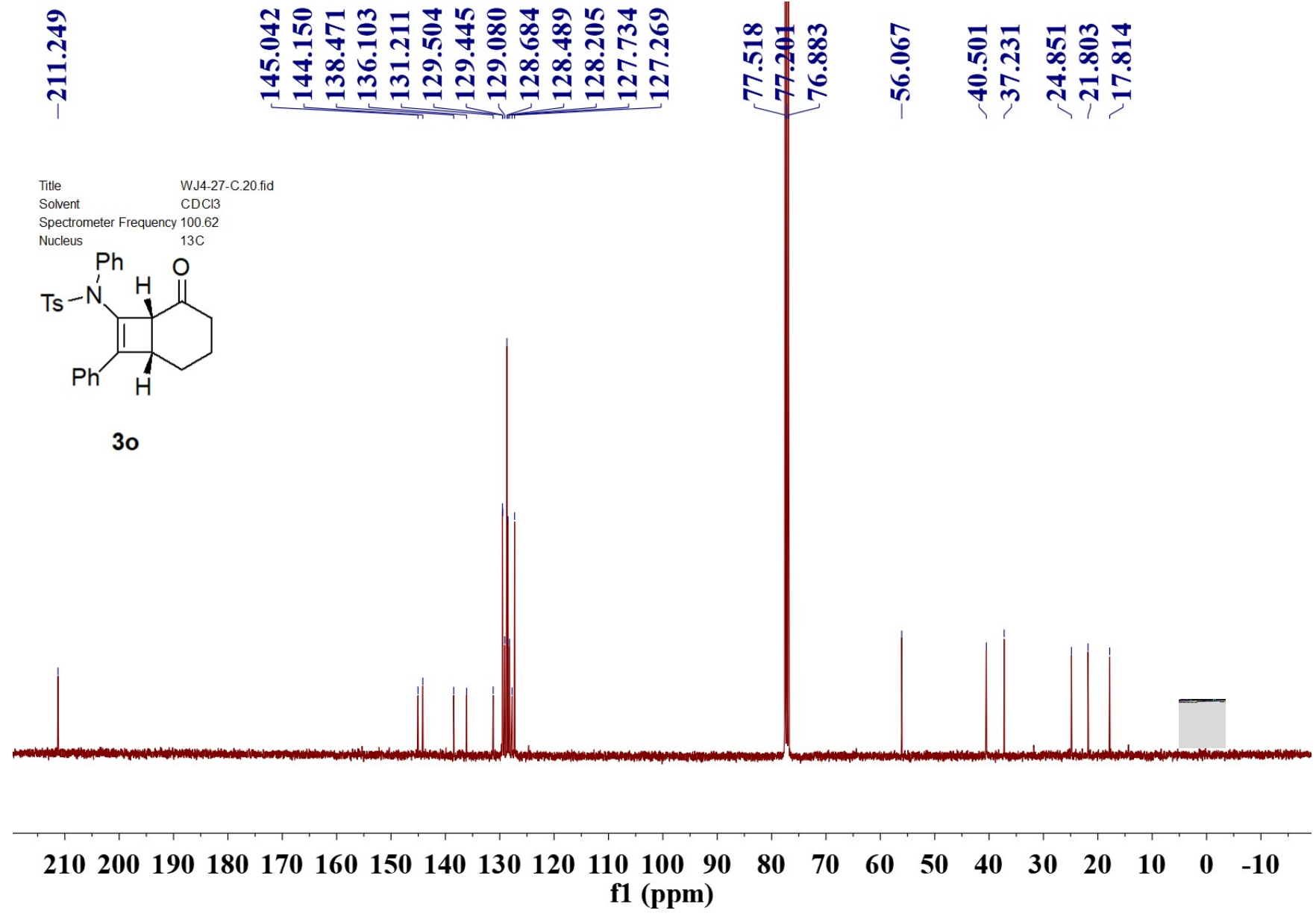
40.501
37.231

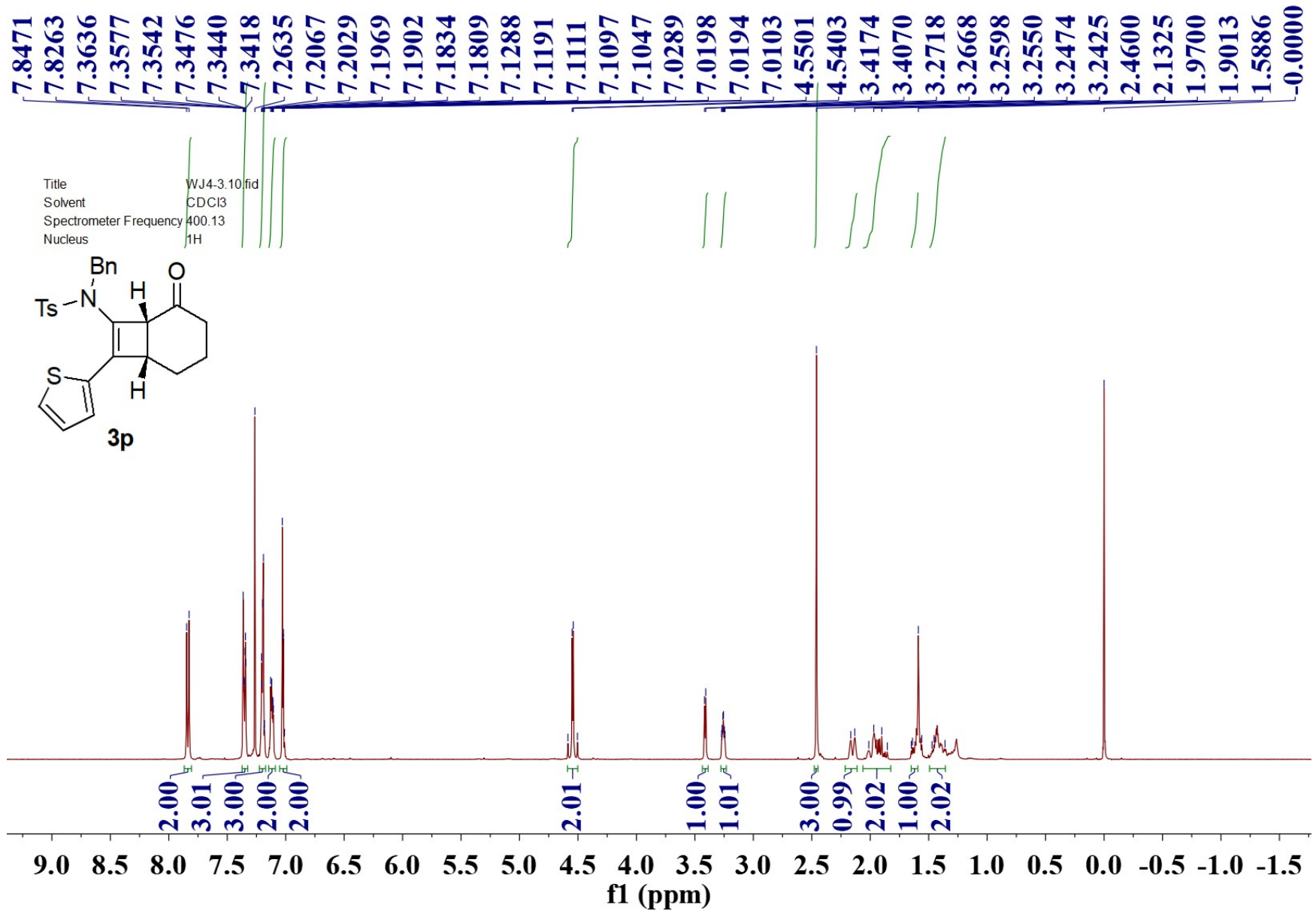
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17.814

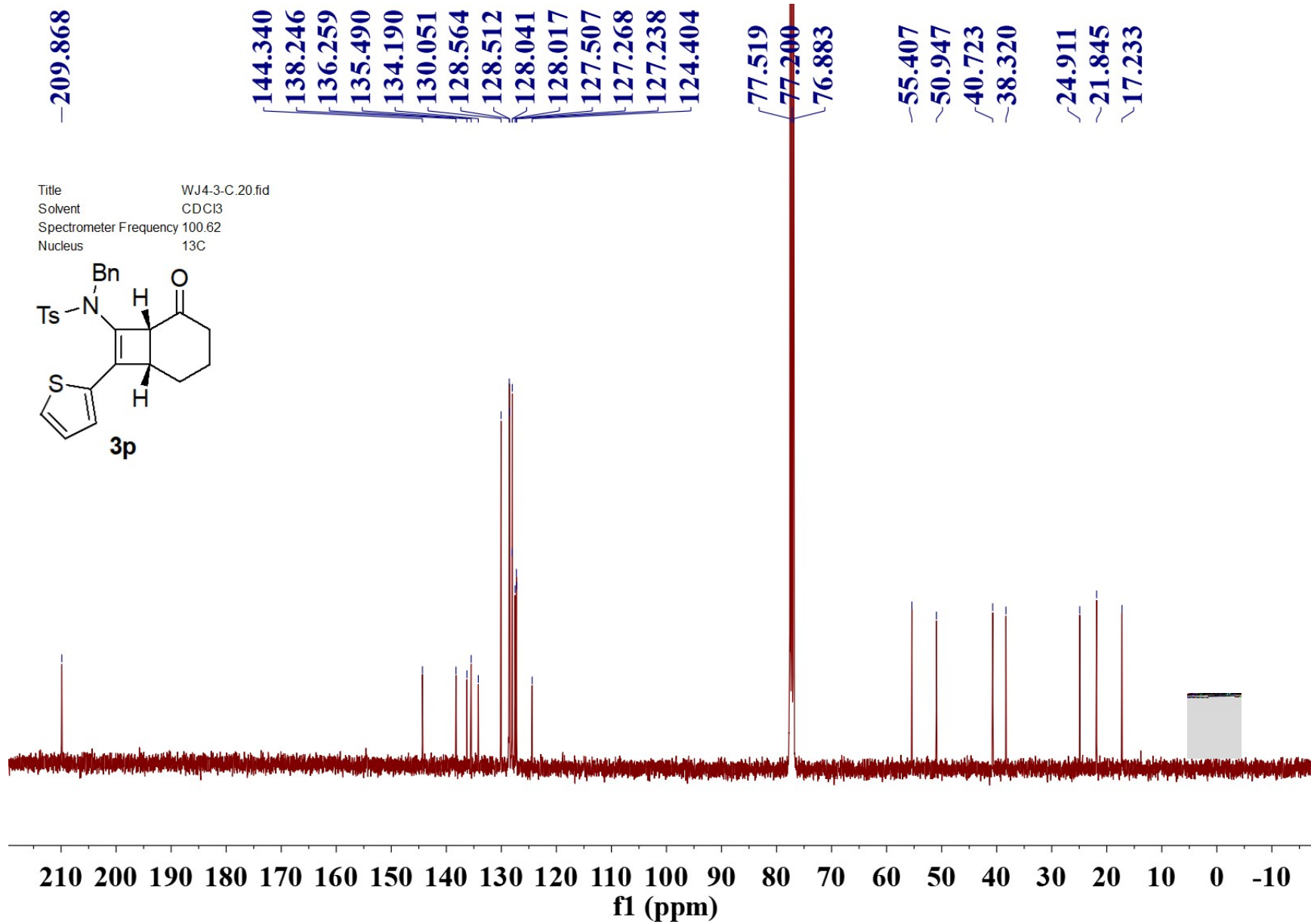
Title WJ4-27-C.20.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C

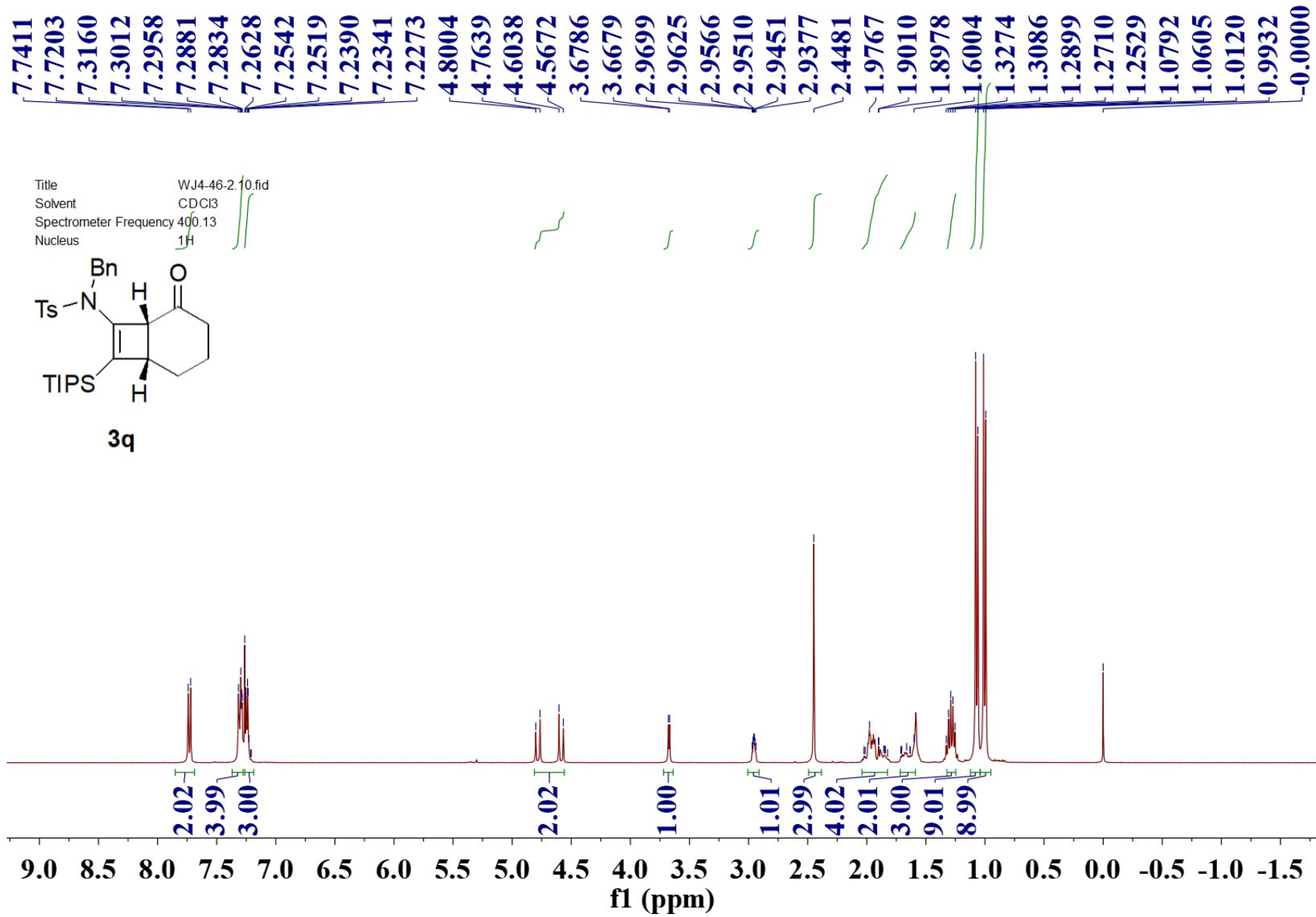


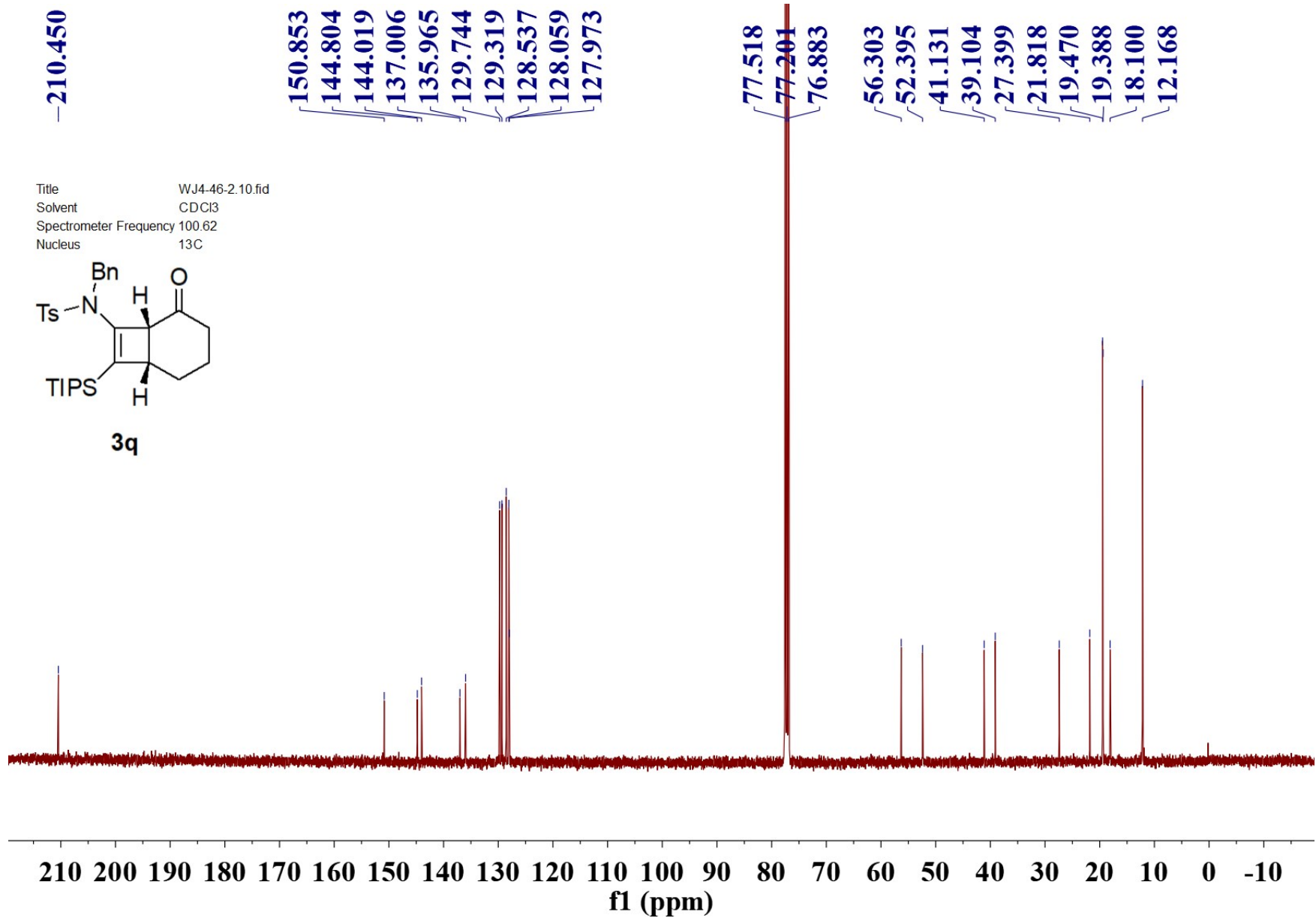
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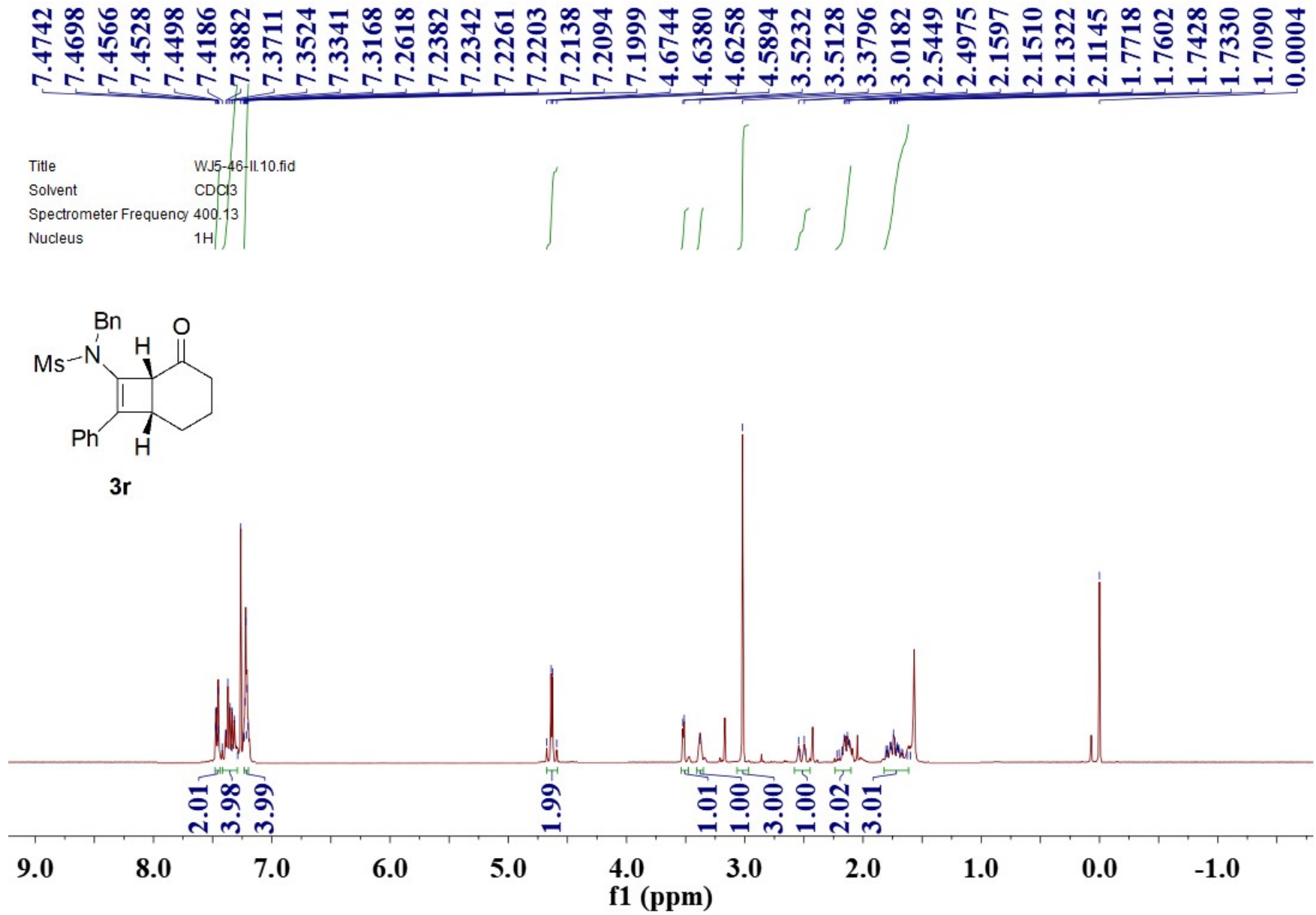












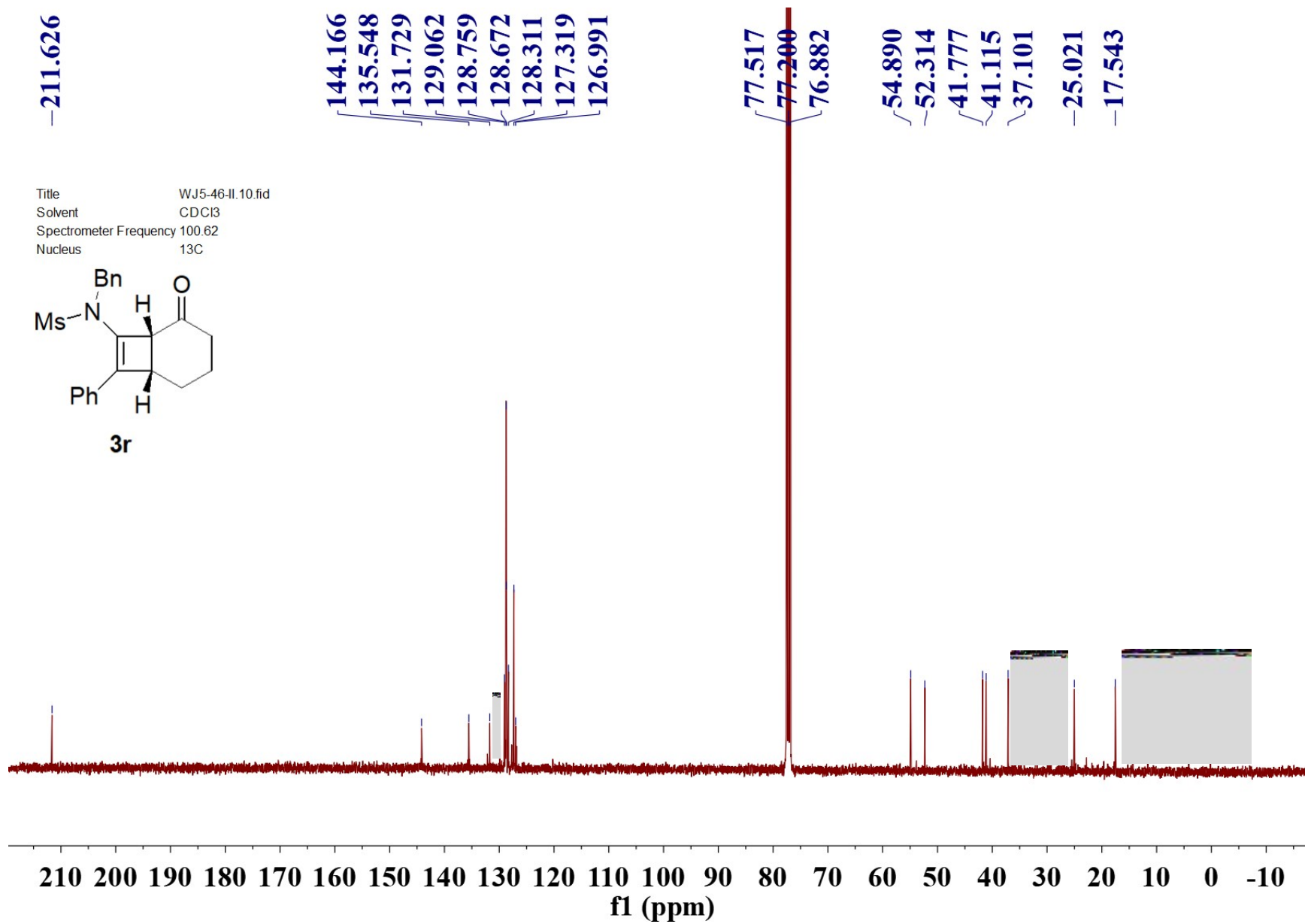
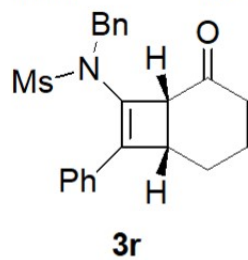
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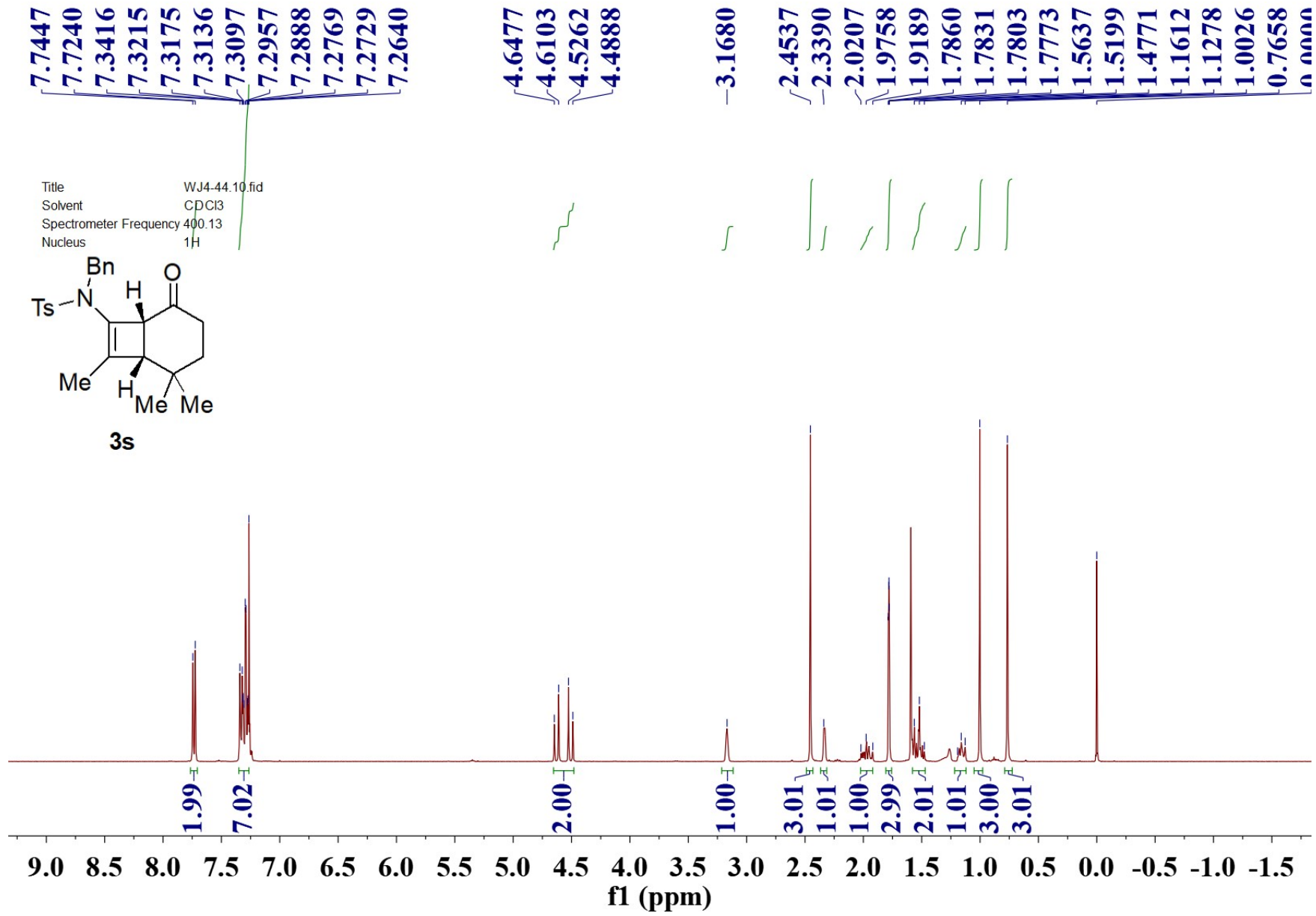
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135.548
131.729
129.062
128.759
128.672
128.311
127.319
126.991

77.517
77.200
76.882

54.890
52.314
41.777
41.115
37.101
25.021
17.543

Title WJ5-46-II.10.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C





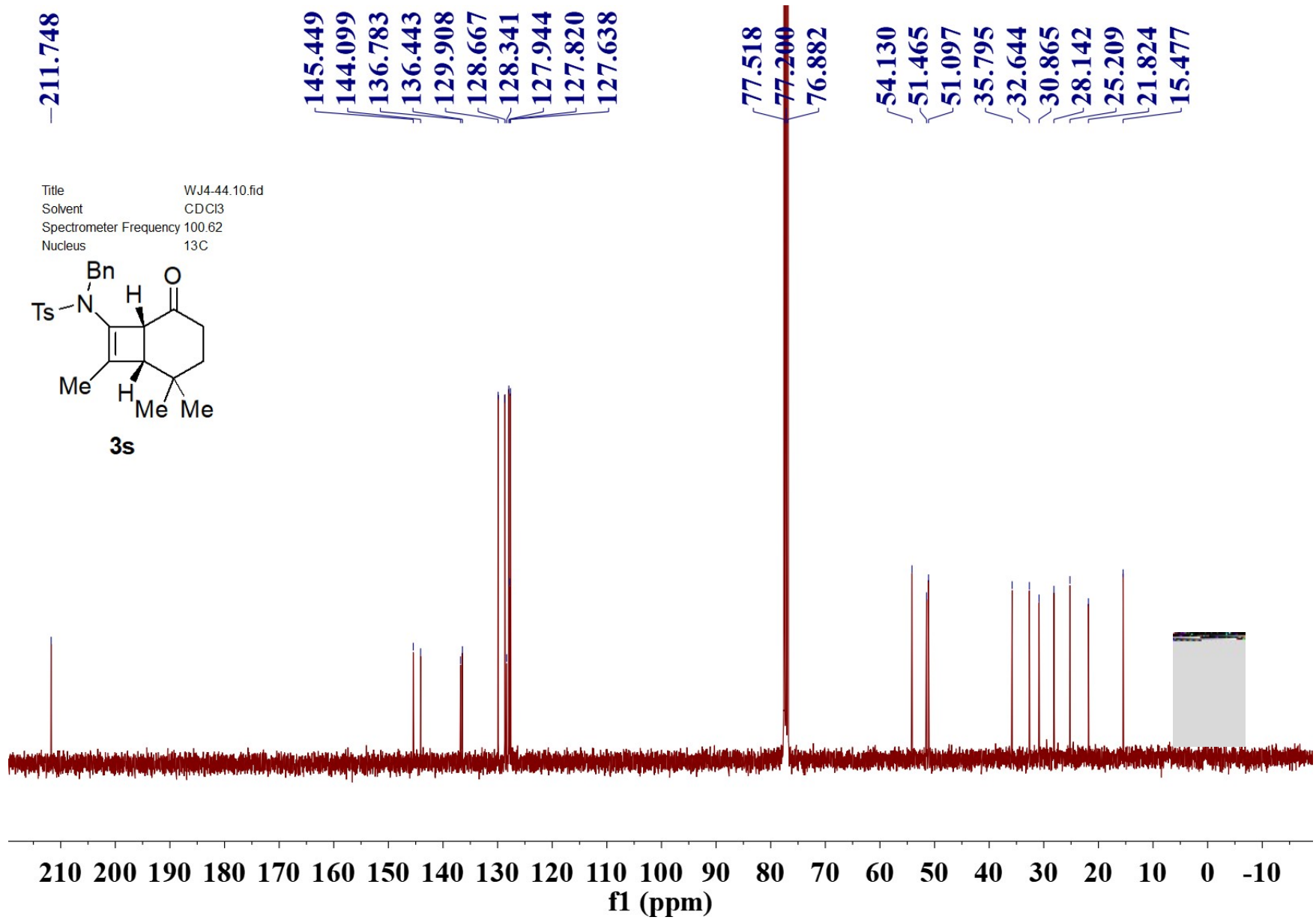
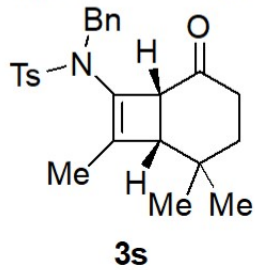
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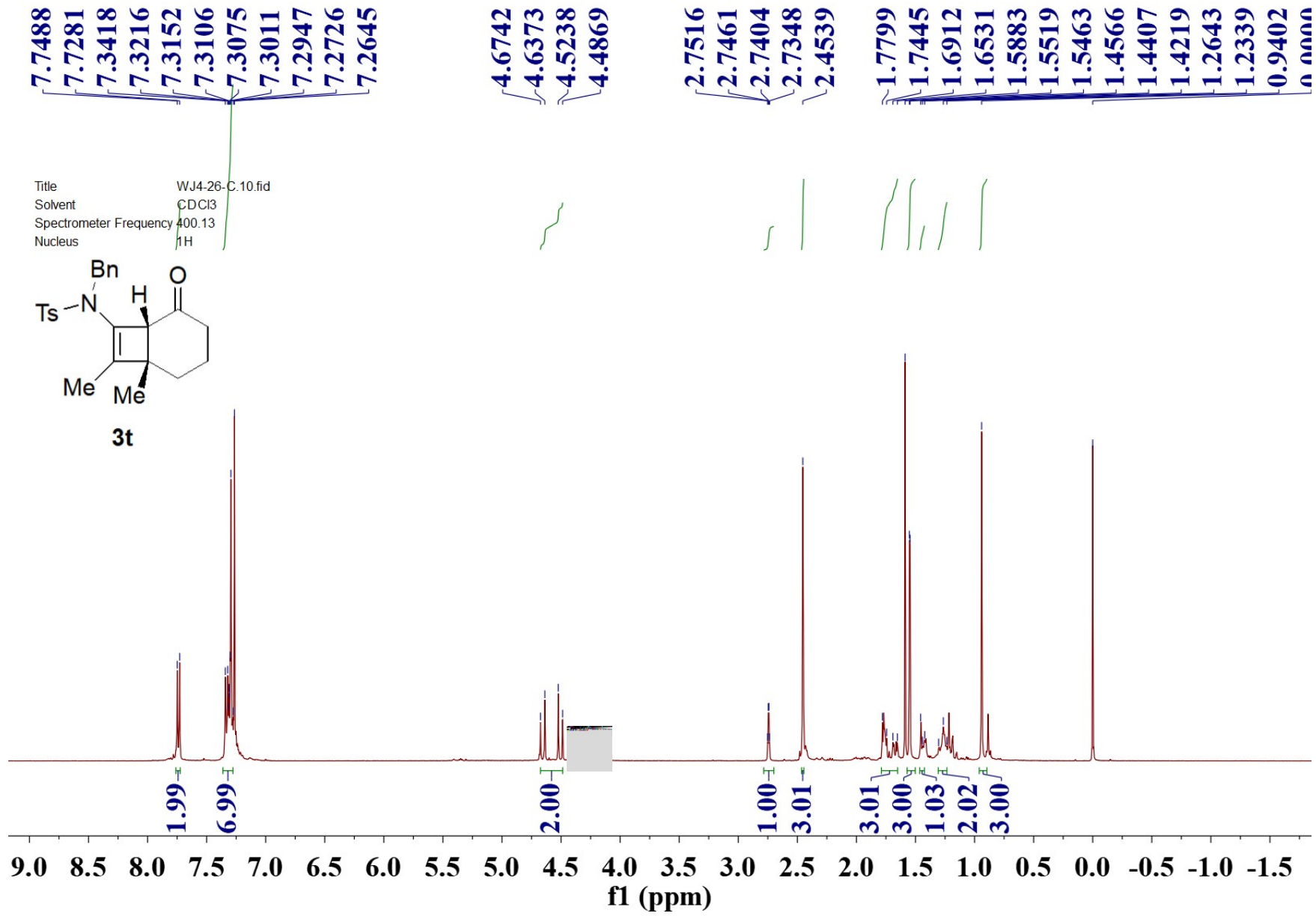
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144.099
136.783
136.443
129.908
128.667
128.341
127.944
127.820
127.638

77.518
77.200
76.882

54.130
51.465
51.097
35.795
32.644
30.865
28.142
25.209
21.824
15.477

Title WJ4-44.10.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C





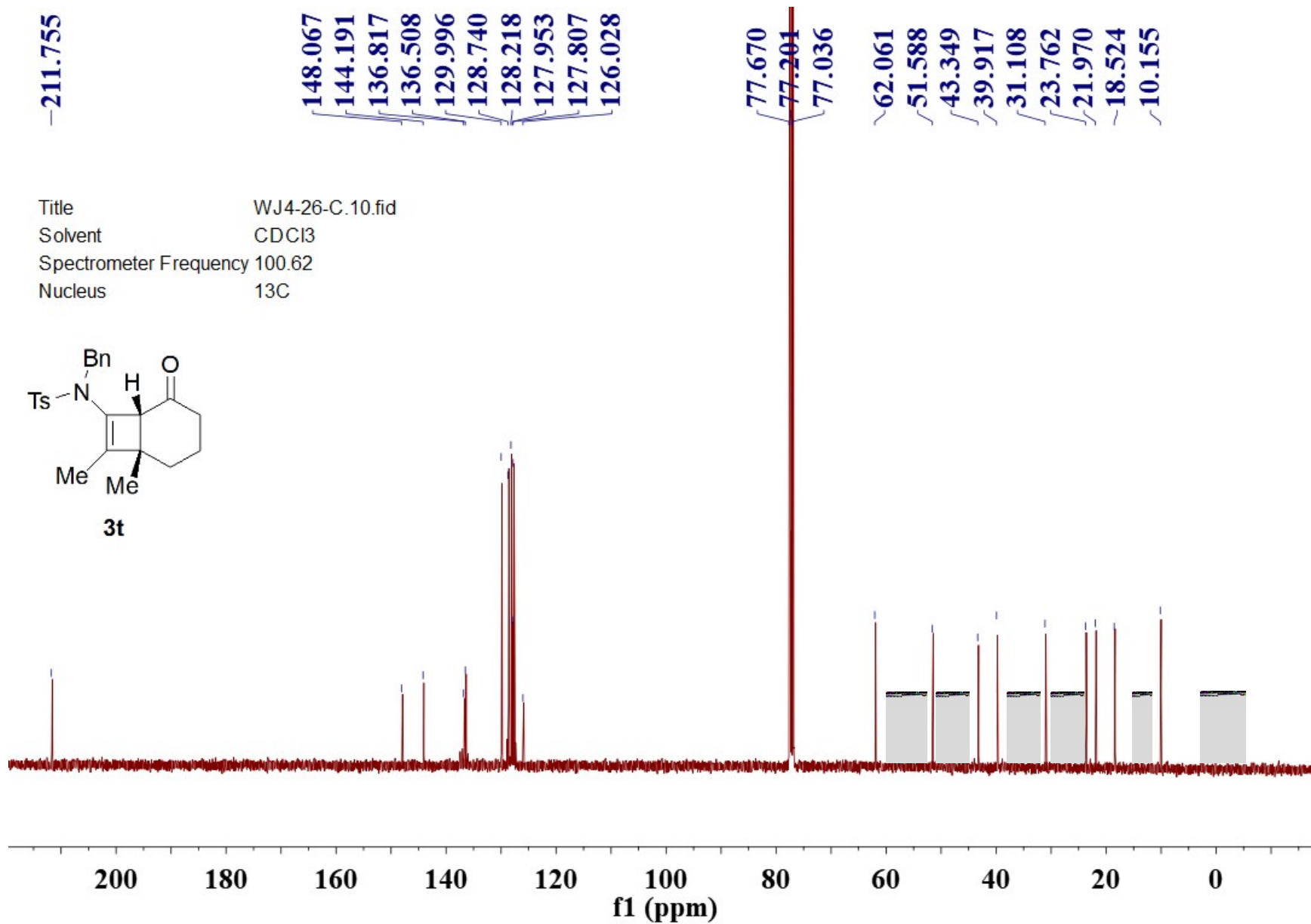
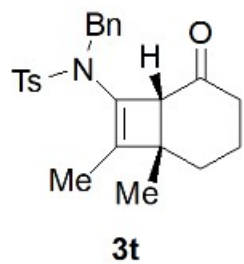
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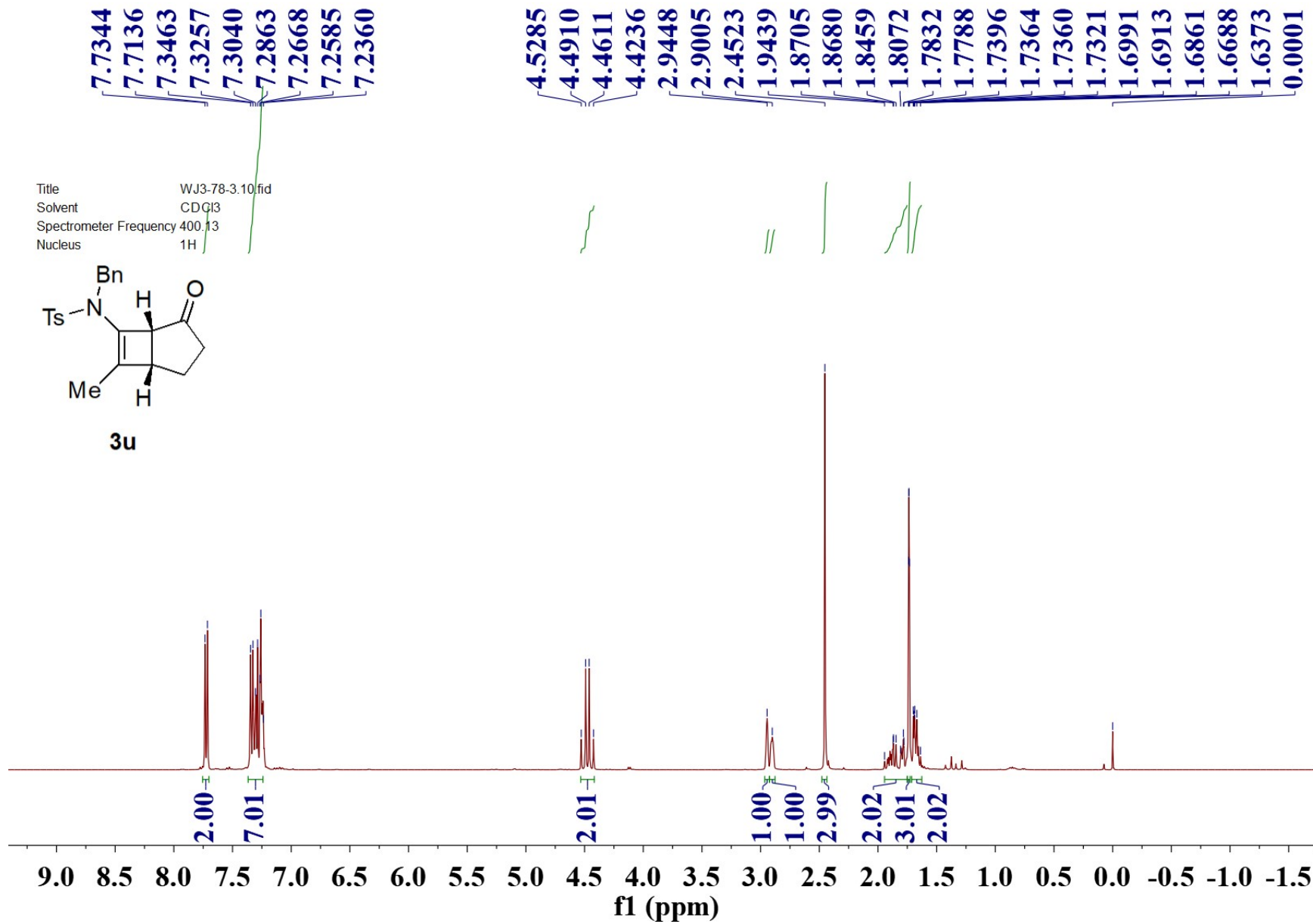
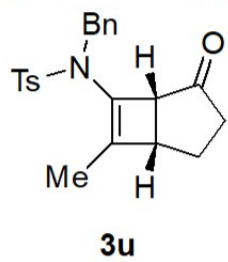
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77.036

62.061
51.588
43.349
39.917
31.108
23.762
21.970
18.524
10.155

Title WJ4-26-C.10.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C



Title WJ3-78-3.10.fid
Solvent CDCl3
Spectrometer Frequency 400.13
Nucleus 1H



-216.016

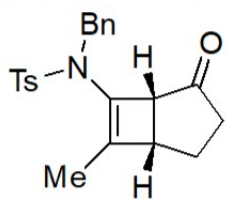
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127.923
127.822
127.533

77.517
77.200
76.883

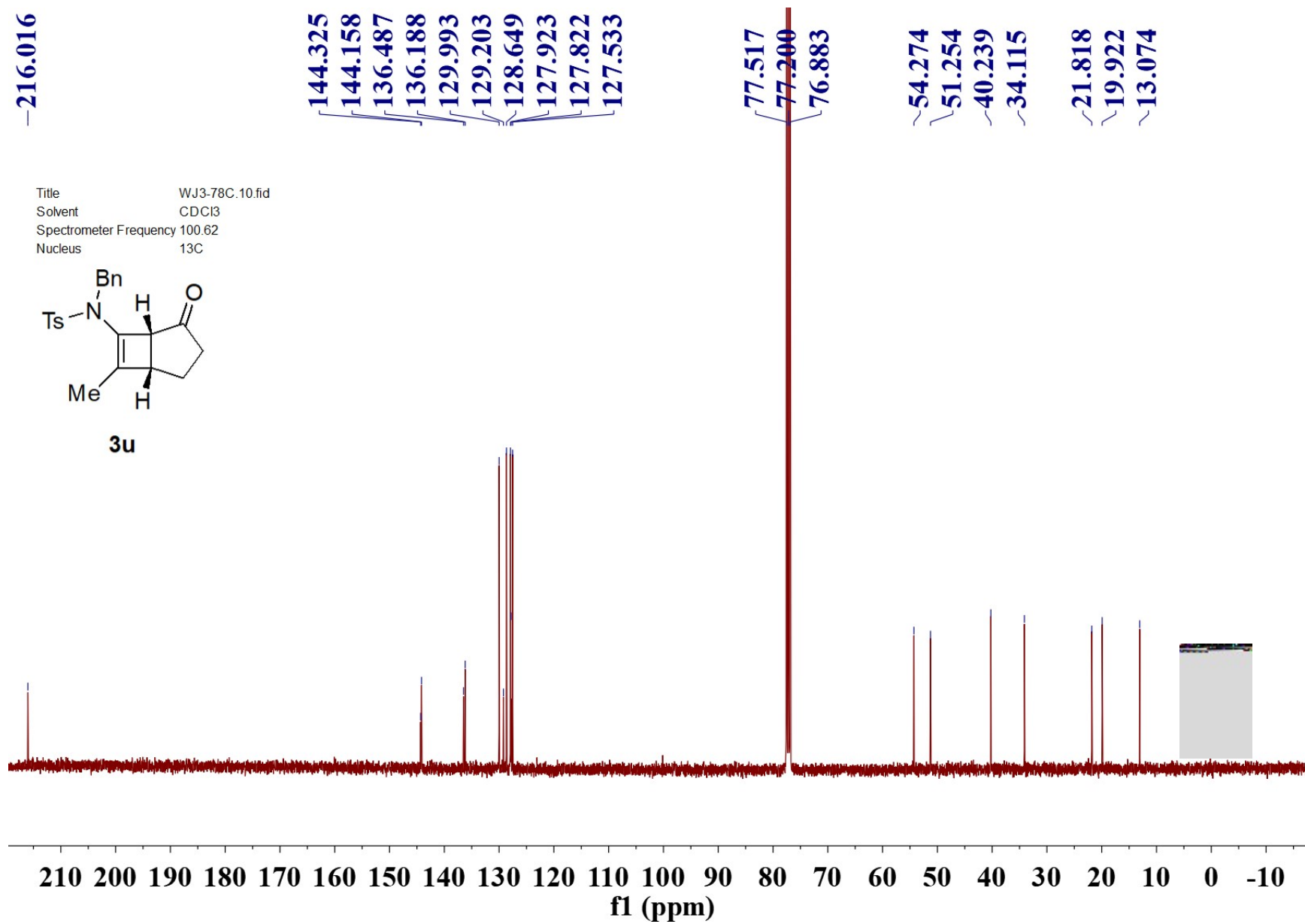
54.274
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13.074

Title WJ3-78C.10.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C

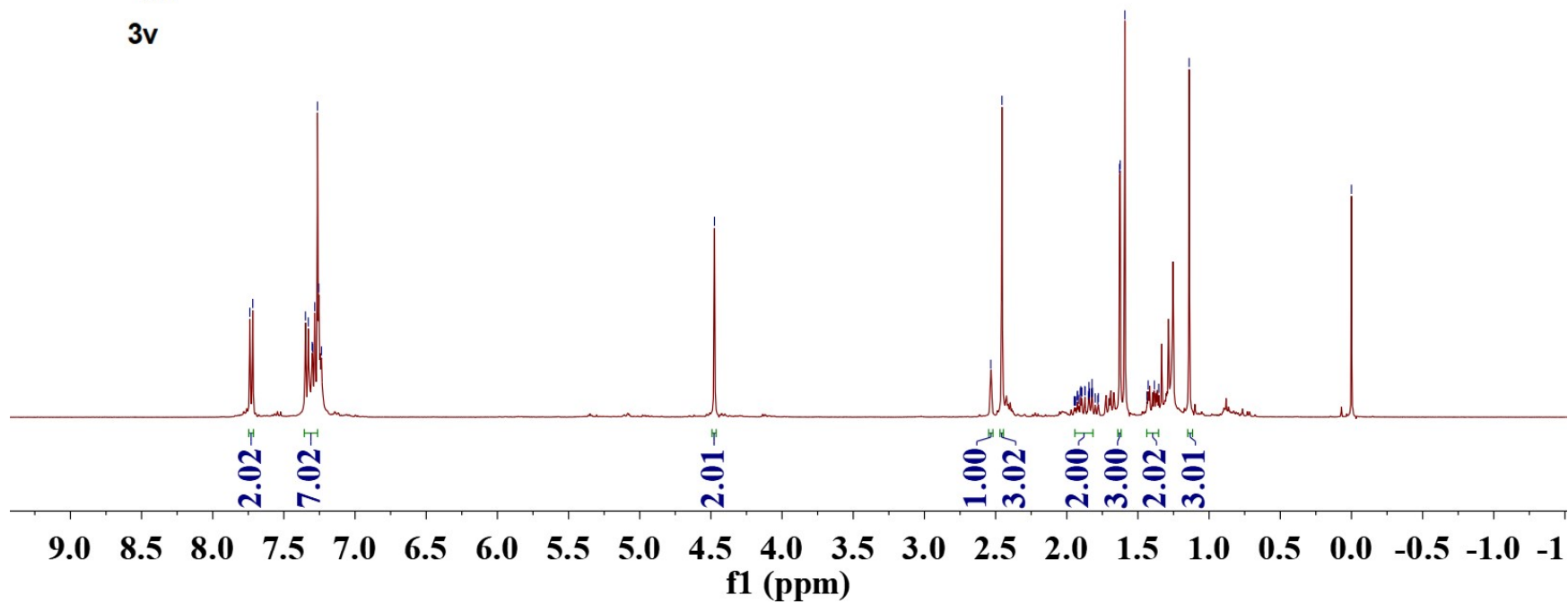
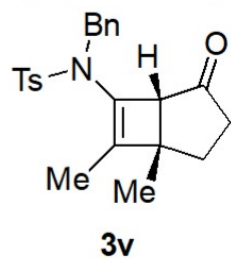


3u



7.7390
7.7183
7.3485
7.3284
7.3006
7.2970
7.2830
7.2639
7.2547
7.2359
4.4751
2.5336
2.4551
1.9264
1.9240
1.9163
1.9041
1.9018
1.8961
1.8937
1.8735
1.8714
1.8478
1.8439
1.8400
1.8264
1.8224
1.8186
1.7999
1.7823
1.7783
1.6291
1.6244
1.5920
1.4363
1.4279
1.3843
1.3539
1.1401
0.0001

Title WJ3-80.10.fid
Solvent CDCl3
Spectrometer Frequency 400.13
Nucleus 1H



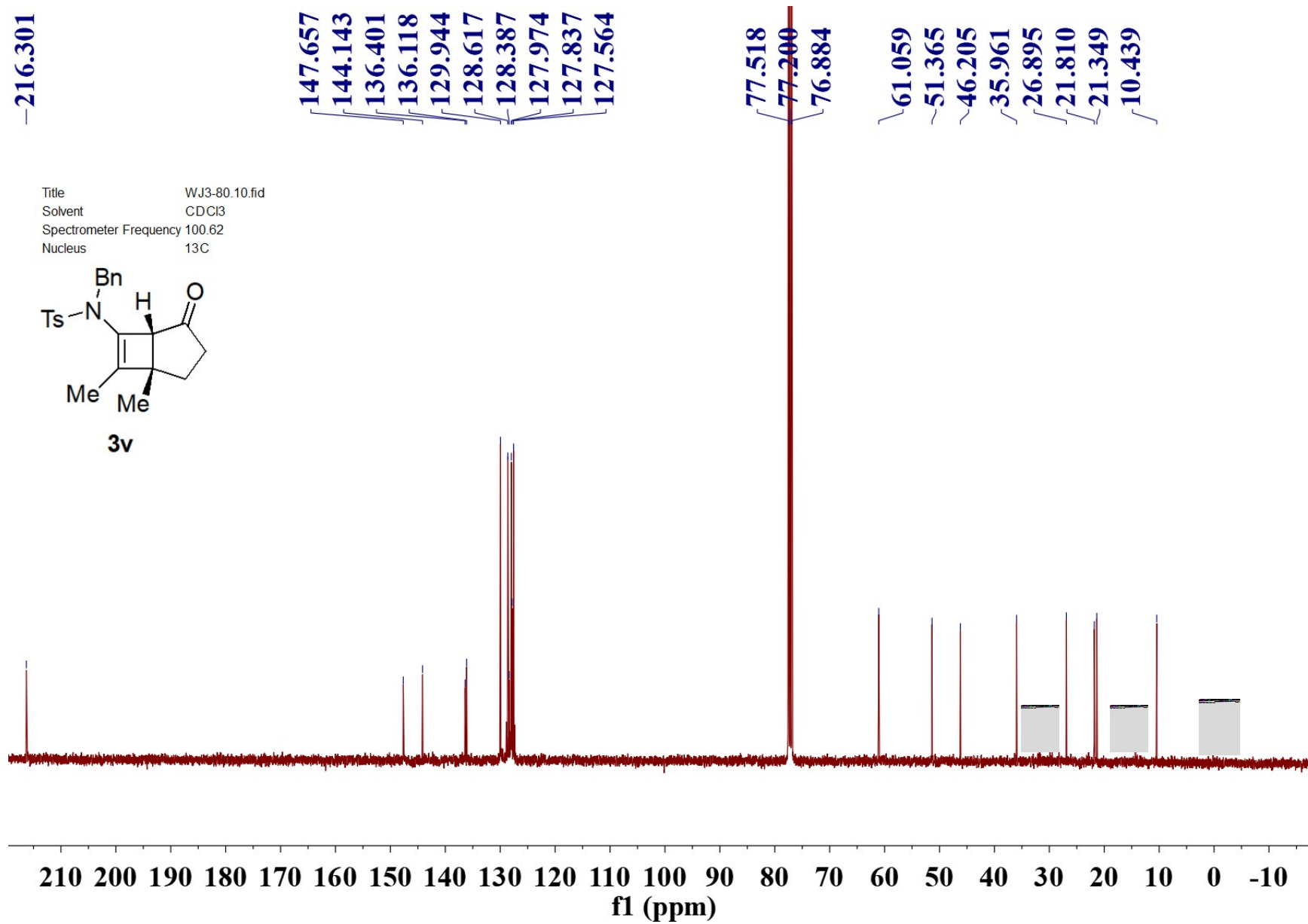
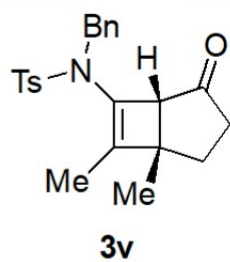
216.301

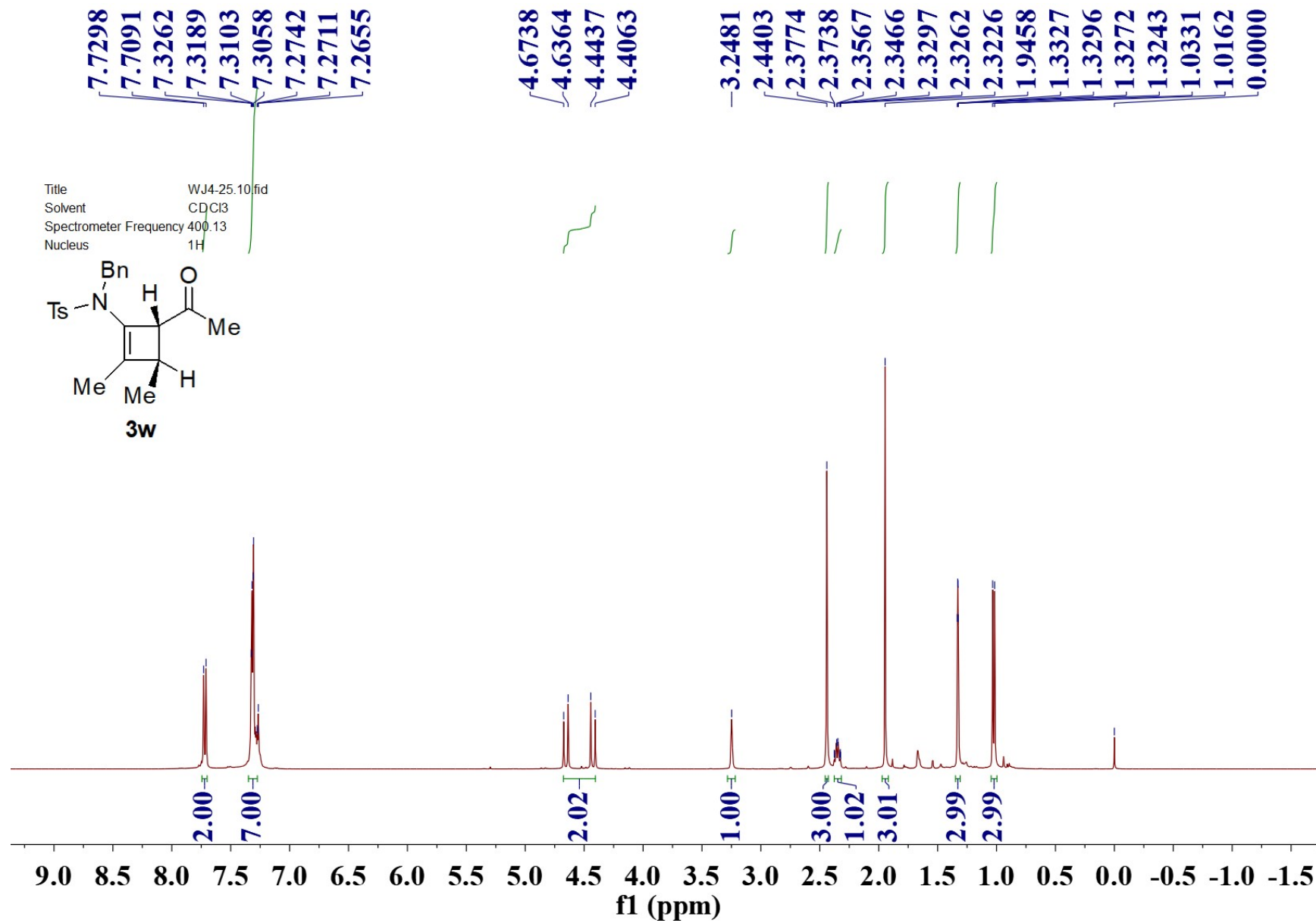
147.657
144.143
136.401
136.118
129.944
128.617
128.387
127.974
127.837
127.564

77.518
77.200
76.884

61.059
51.365
46.205
35.961
26.895
21.810
21.349
10.439

Title WJ3-80.10.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C





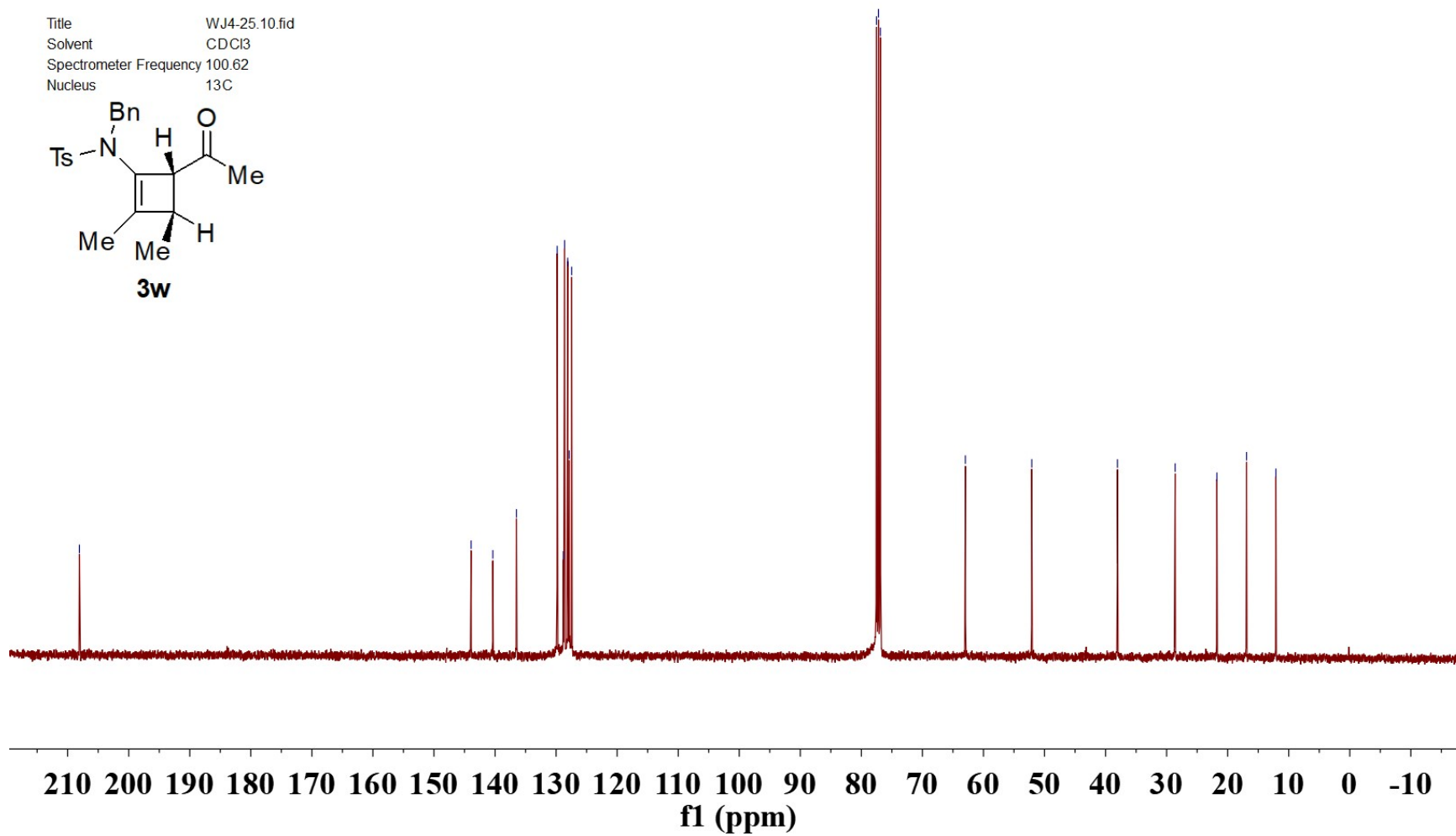
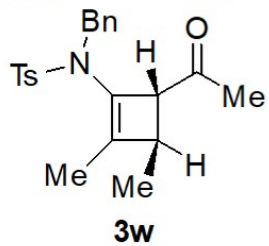
208.081

143.917
140.359
136.495
129.821
128.806
128.603
128.098
127.859
127.445

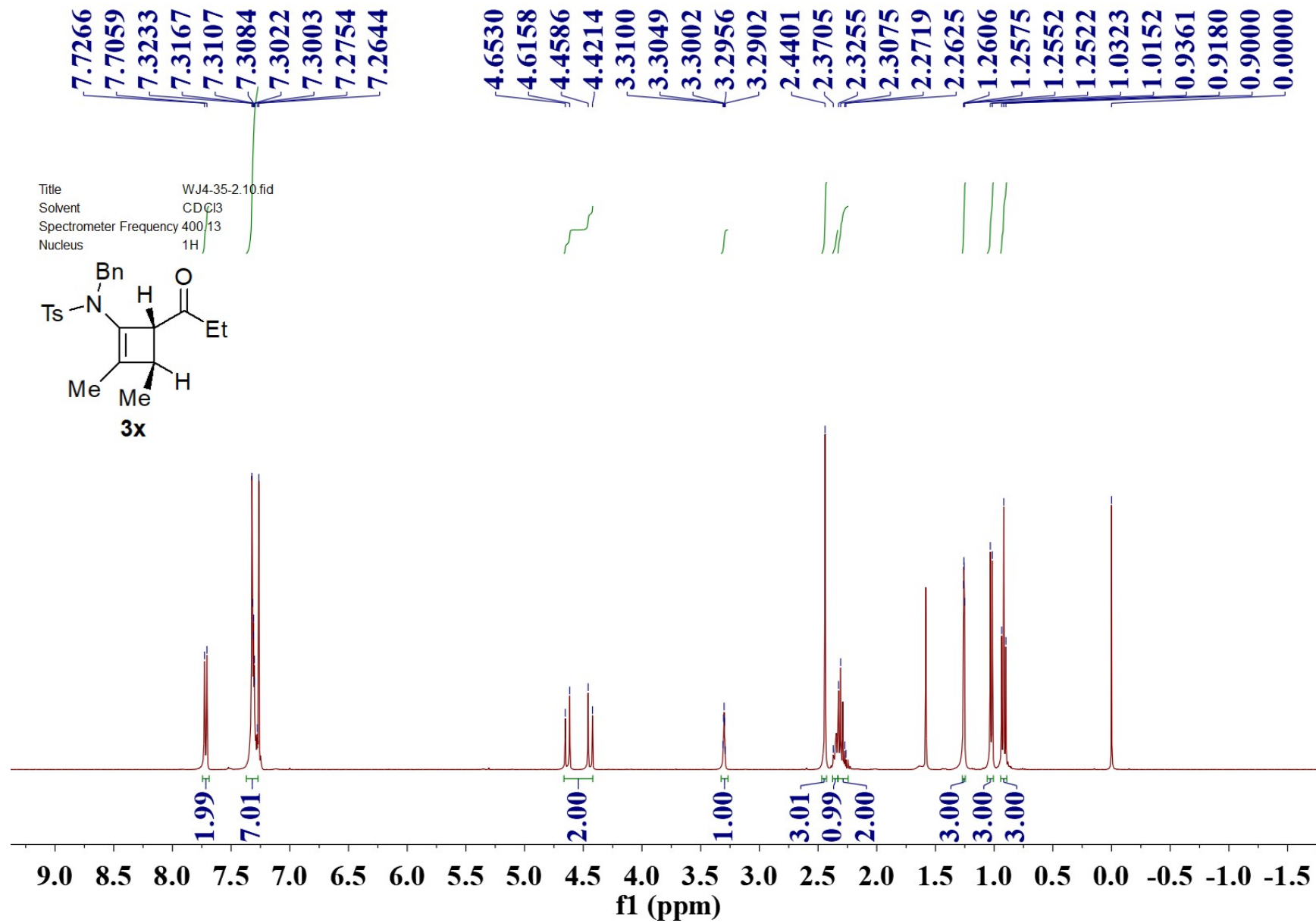
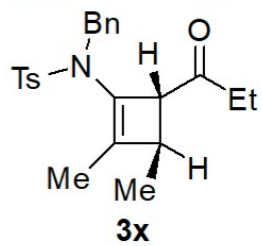
77.518
77.200
76.883
62.960
52.088

38.052
28.603
21.761
16.907
12.094

Title WJ4-25.10.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C



Title WJ4-35-2.10.fid
Solvent CDCl3
Spectrometer Frequency 400.13
Nucleus 1H



210.146

143.825
140.387
136.559
136.467
129.770
128.736
128.554
128.166
127.781
127.426

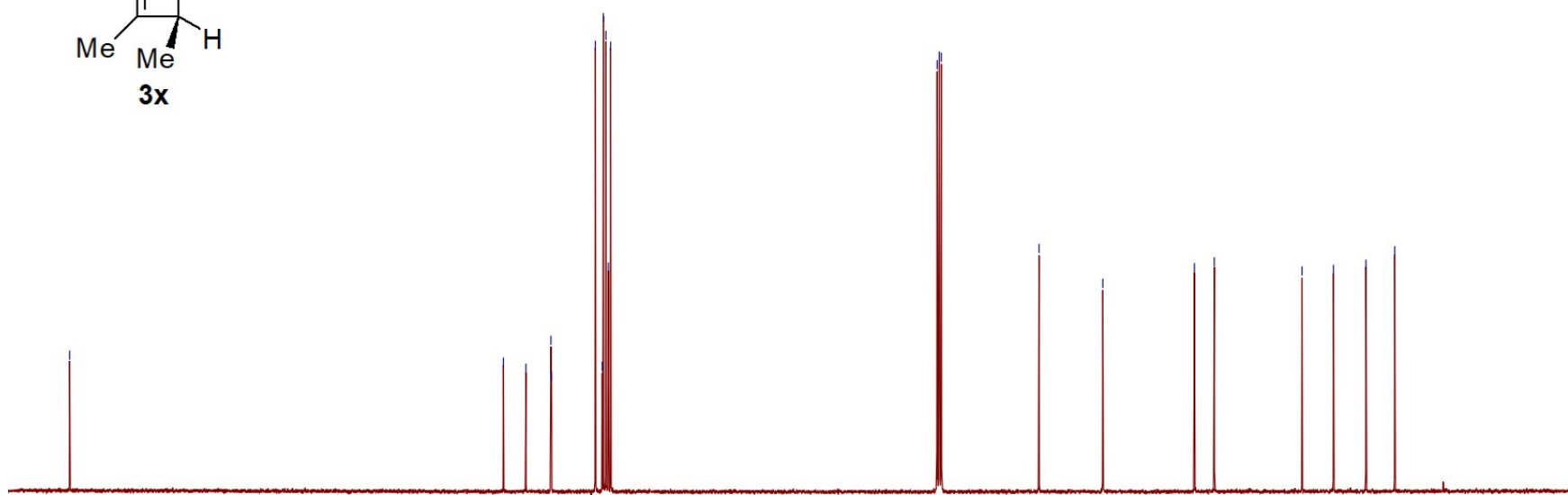
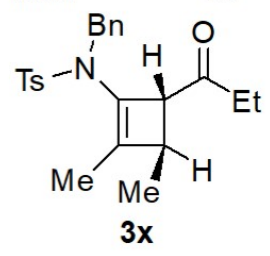
77.520
77.200
76.882

61.944
52.192

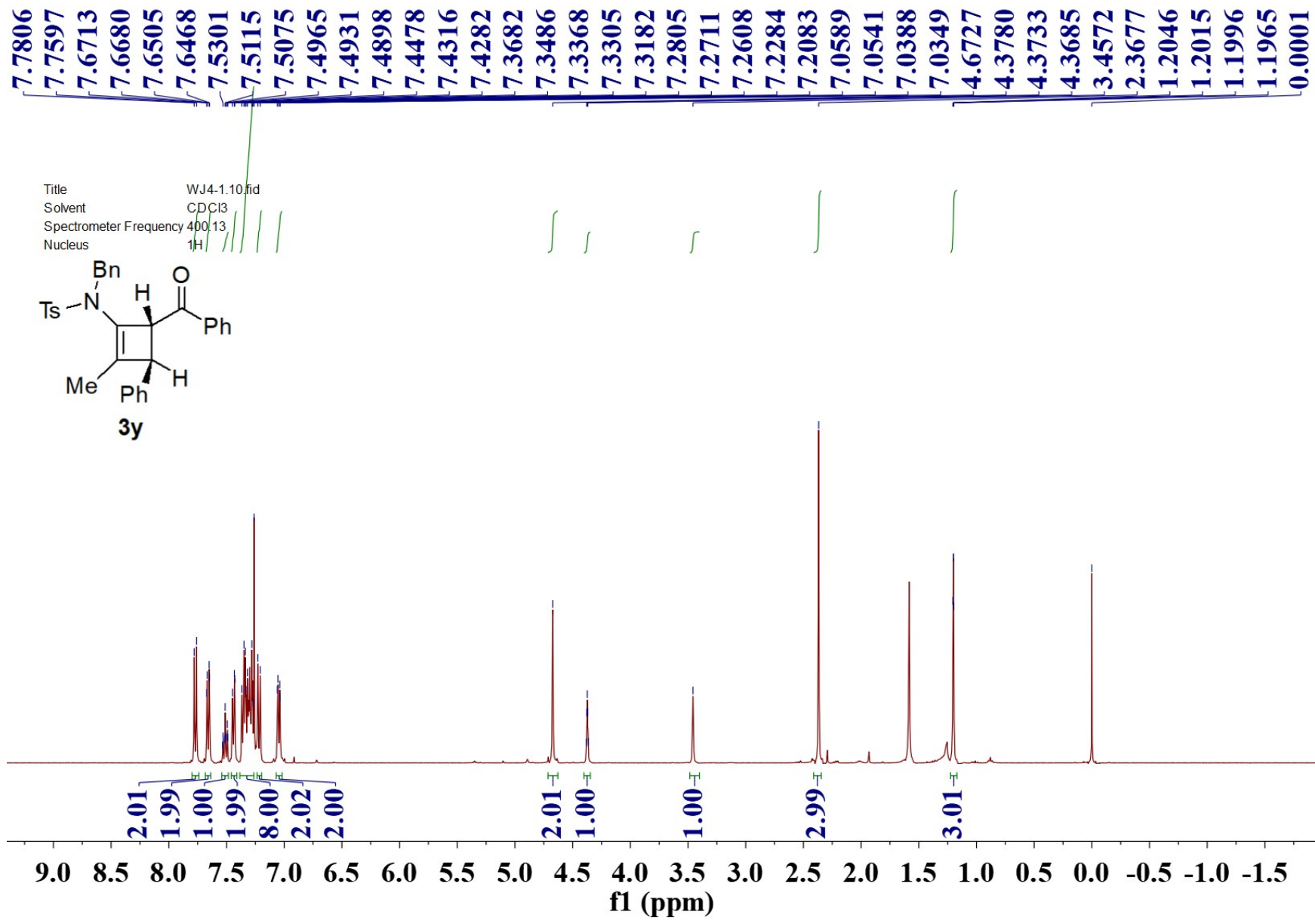
38.187
35.139

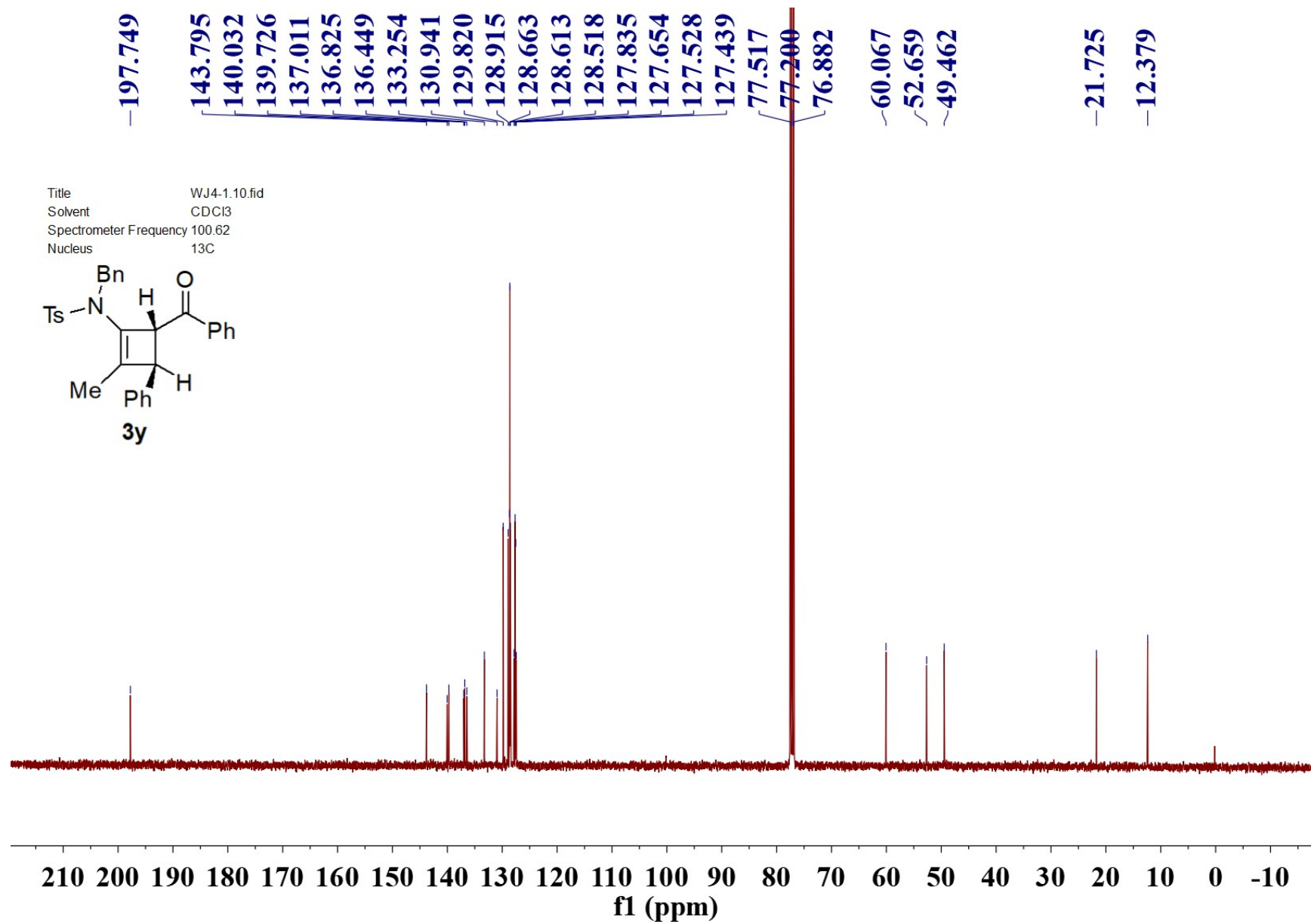
21.729
16.925
11.960
7.559

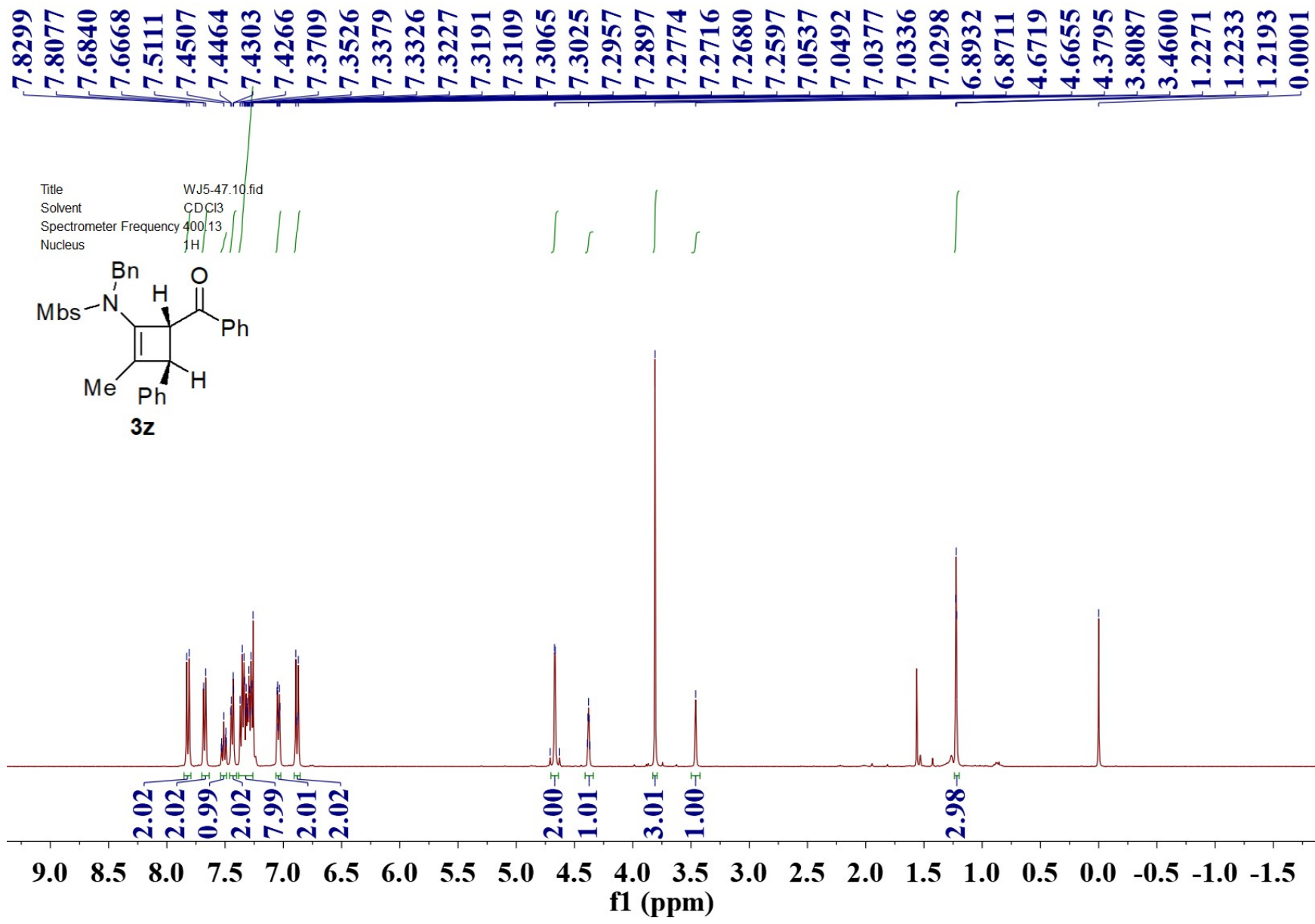
Title WJ4-35-2.10.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C

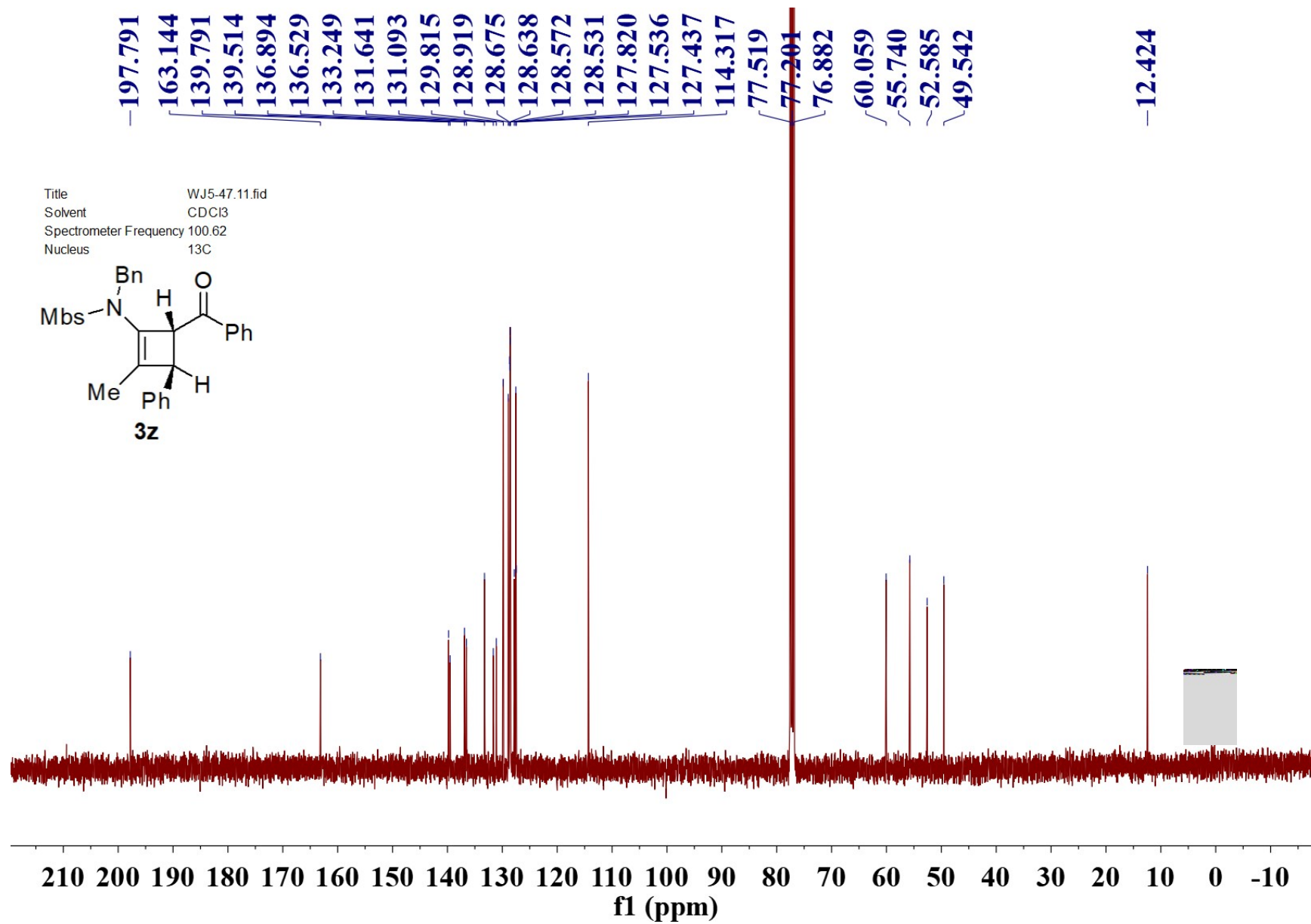


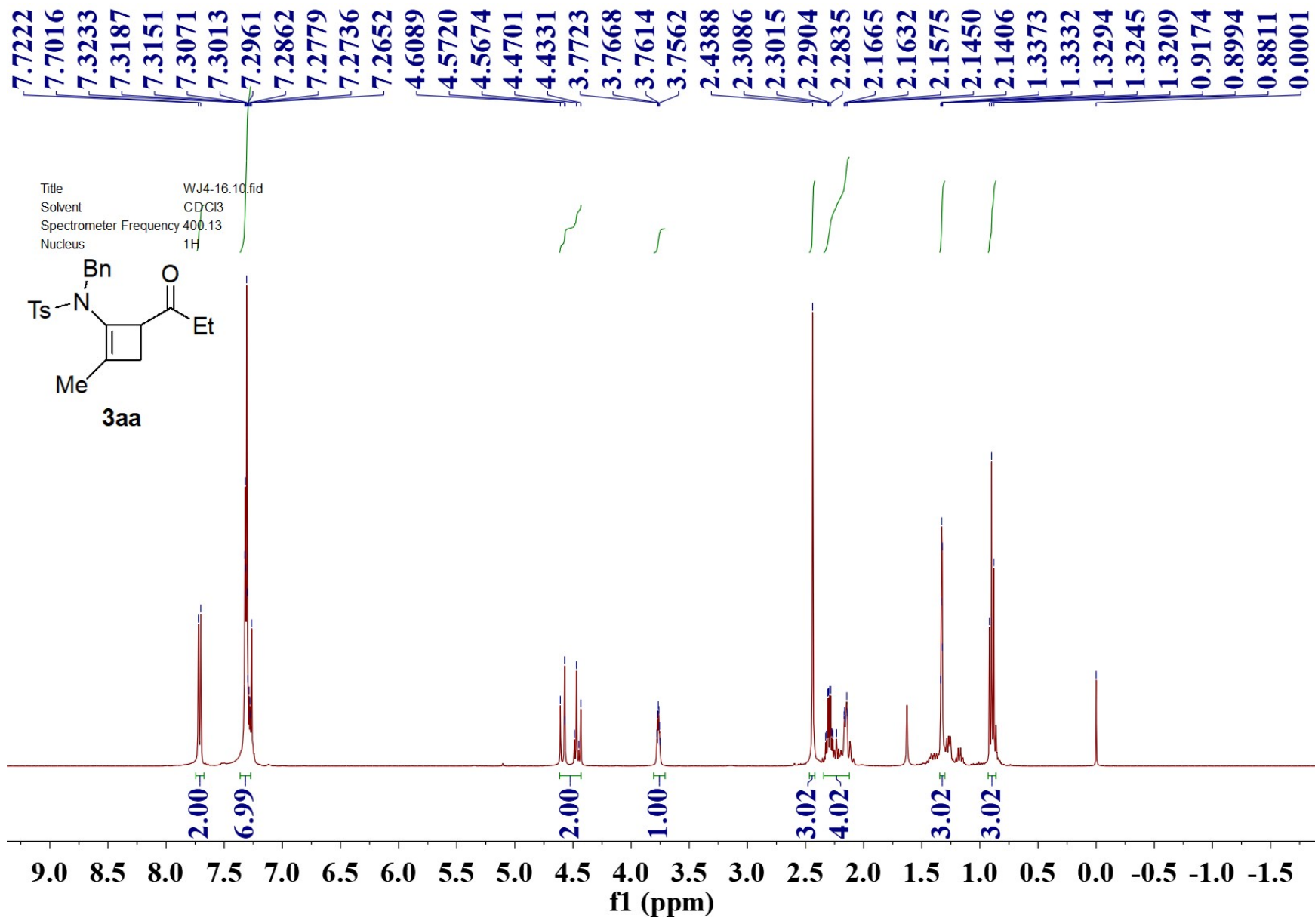
210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10
f1 (ppm)

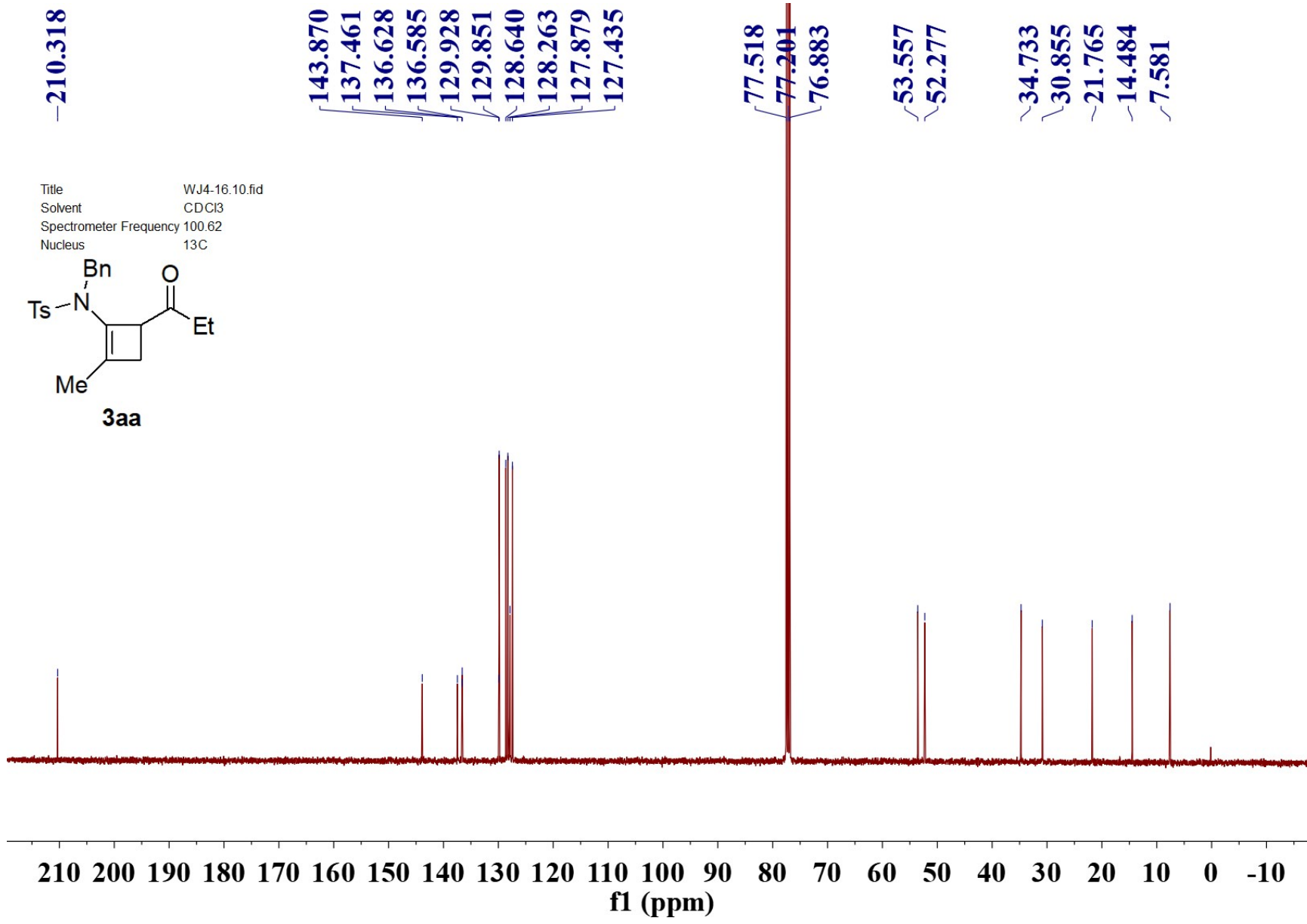


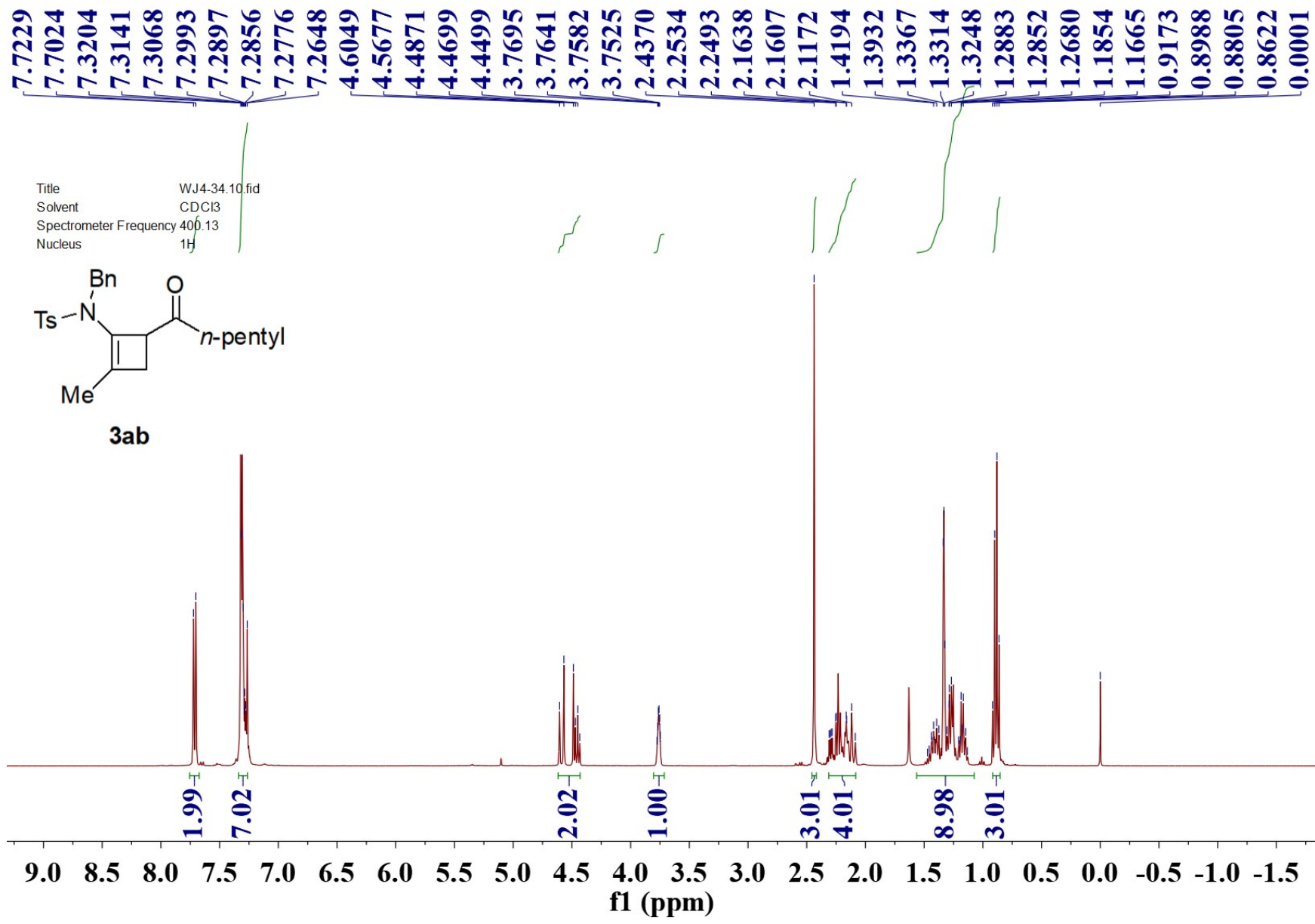












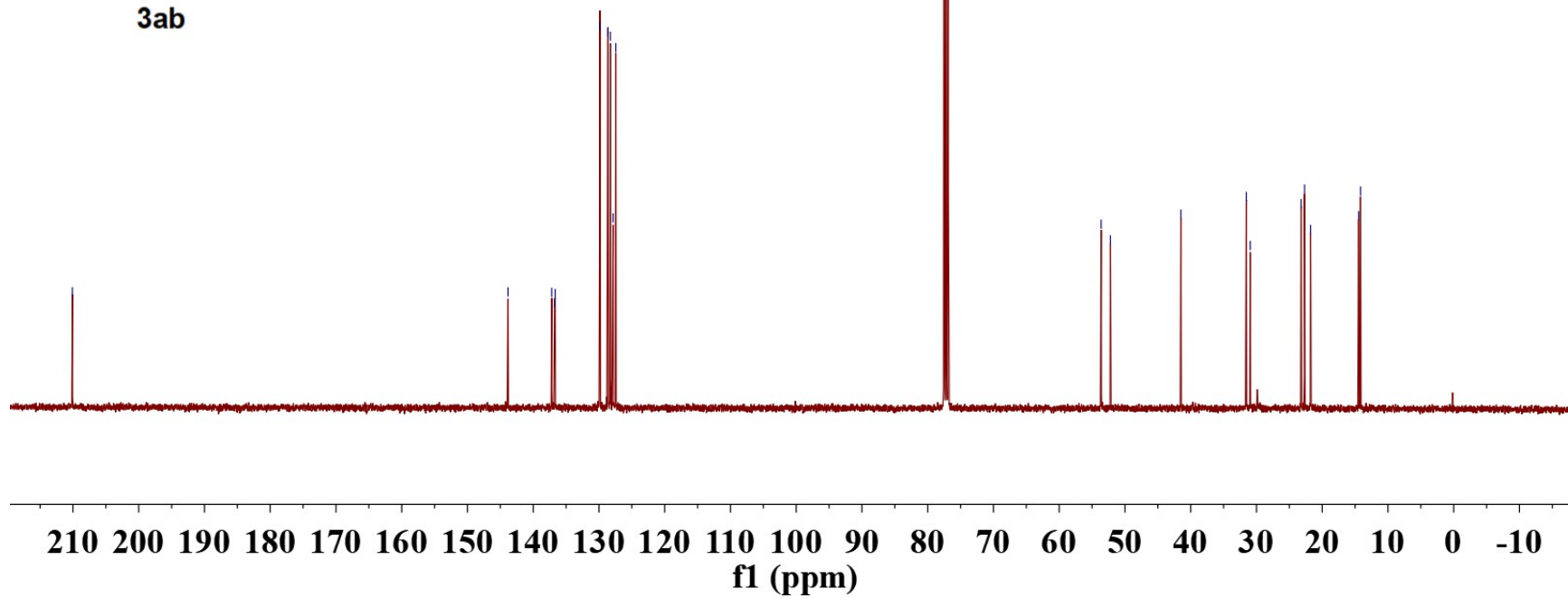
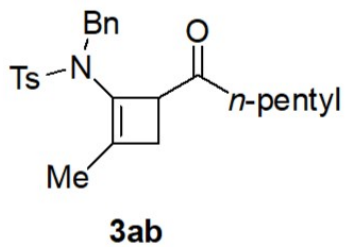
-210.087

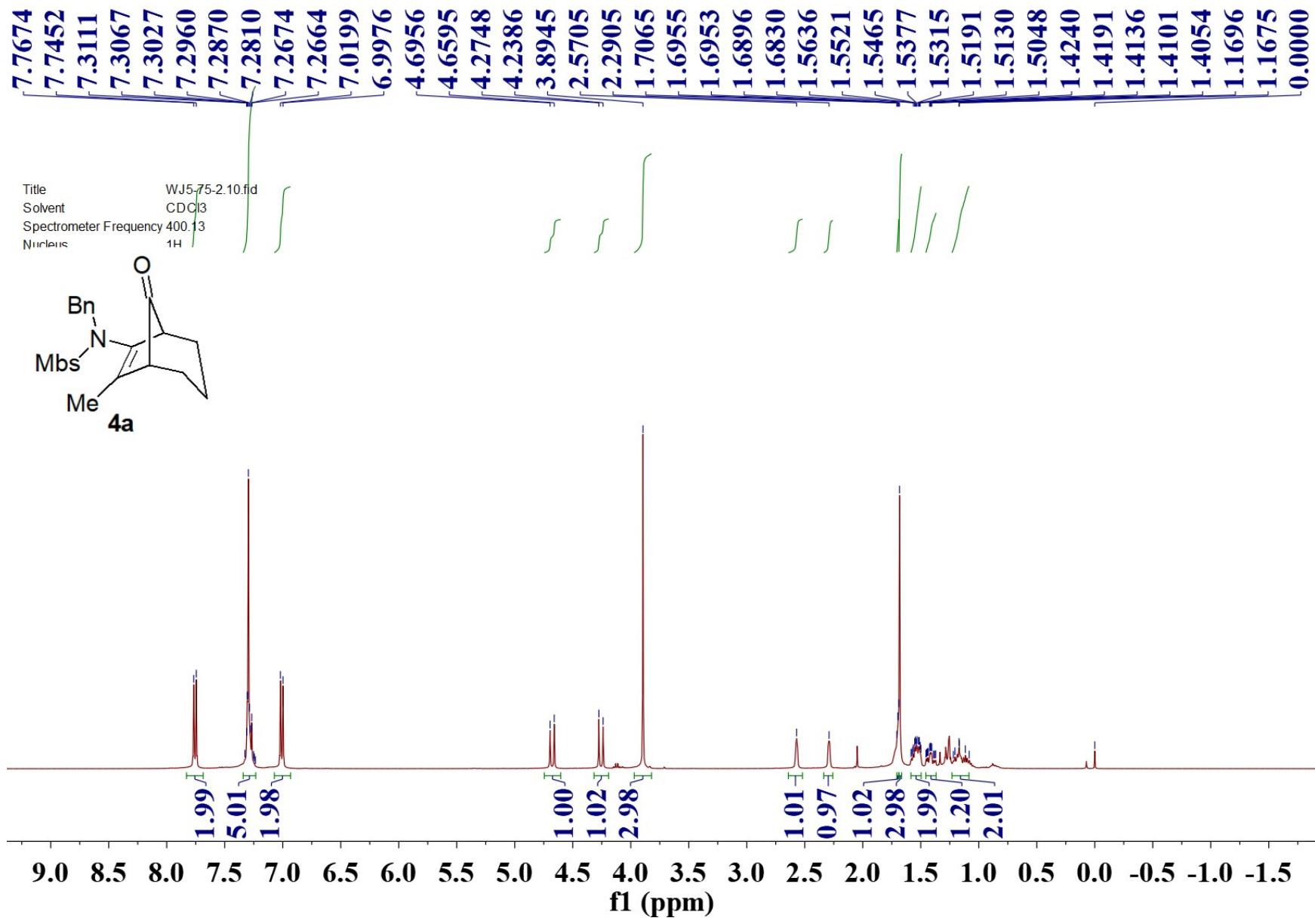
143.833
137.188
136.746
136.657
129.853
128.626
128.267
127.852
127.435

77.518
77.201
76.883

53.619
52.208
41.499
31.547
30.946
23.208
22.689
21.760
14.452
14.167

Title WJ4-34.10.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C





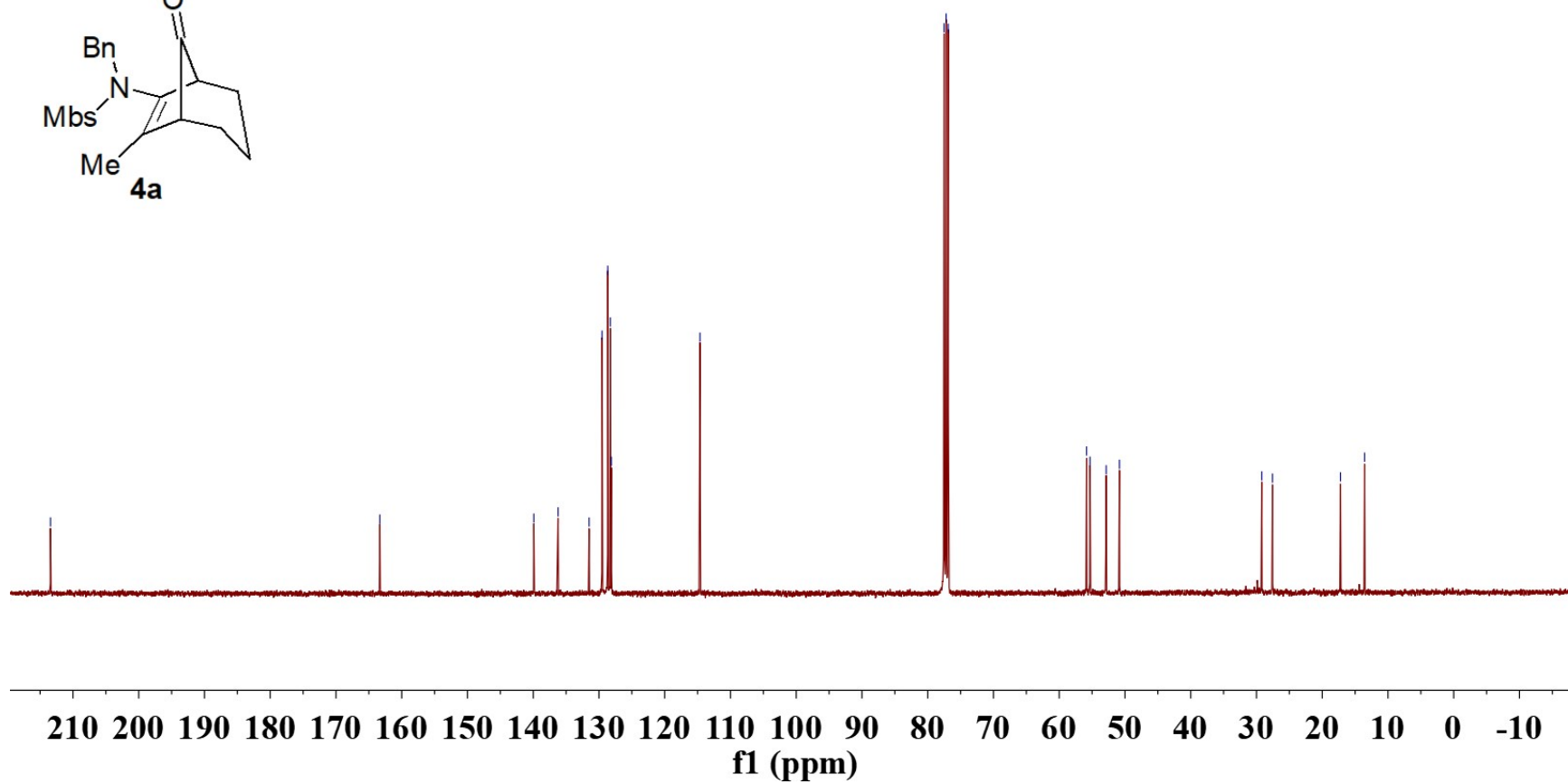
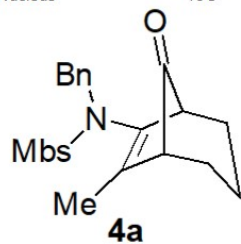
213.421

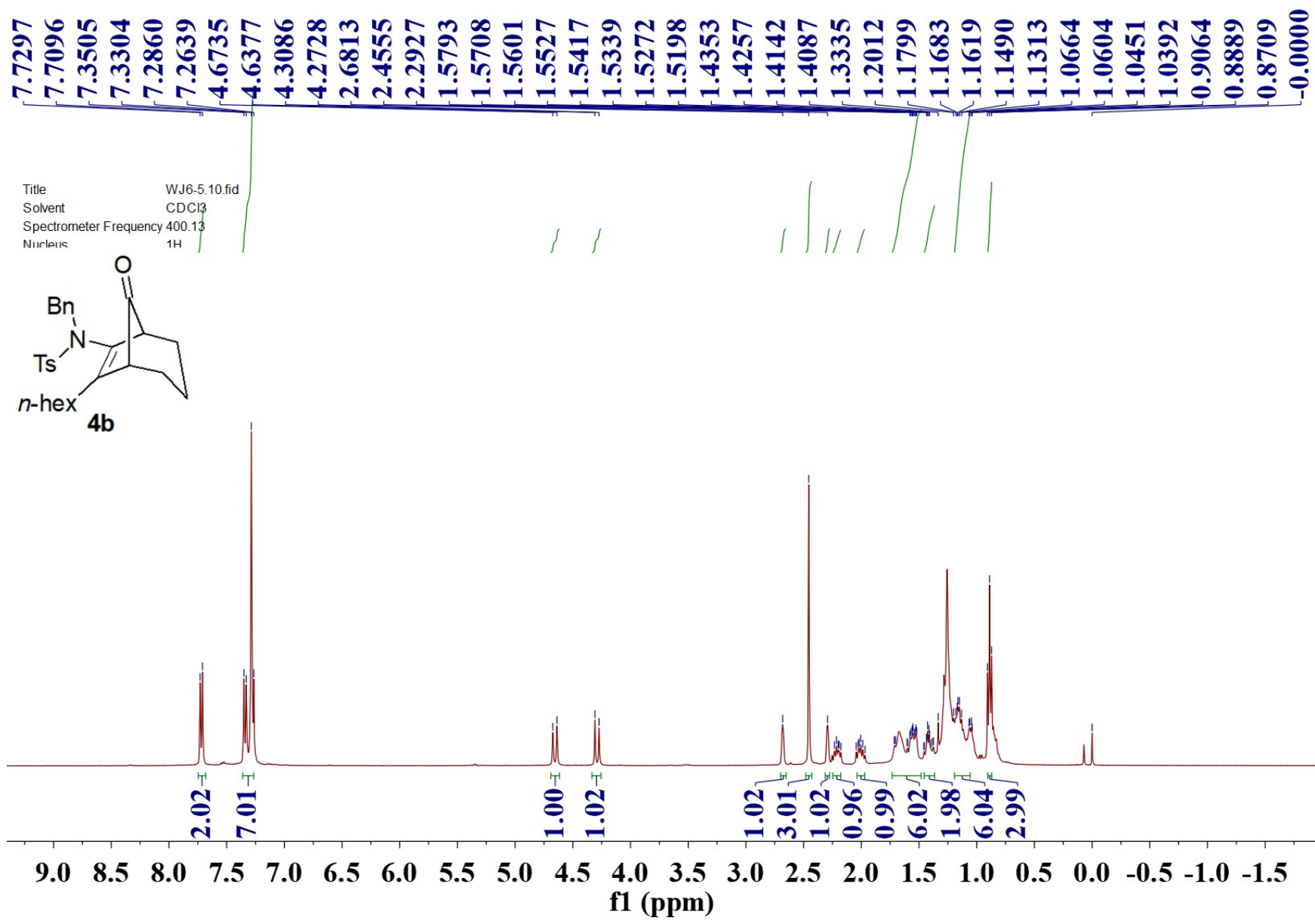
163.327
139.910
136.216
131.501
129.530
128.661
128.273
128.116
114.635

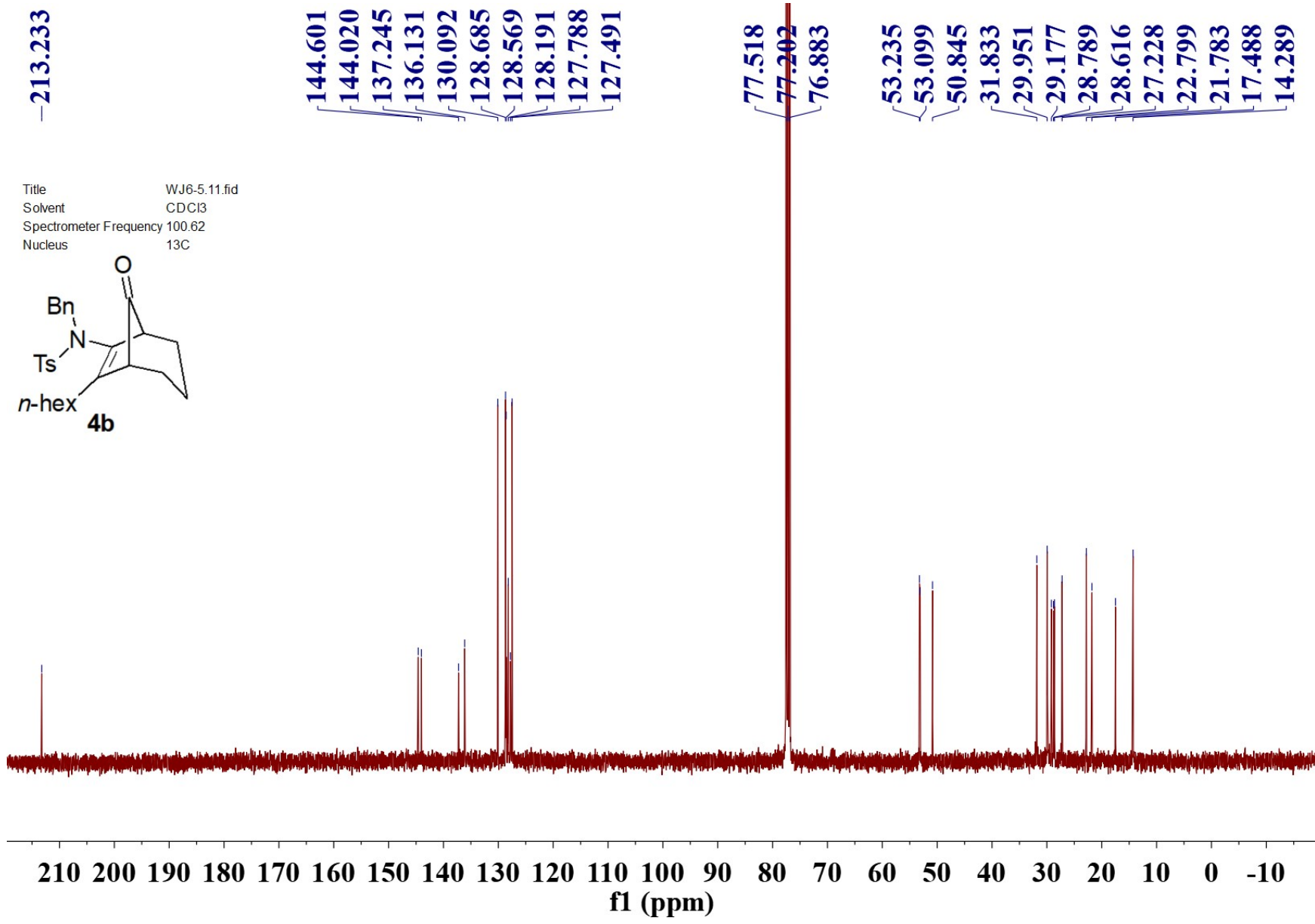
77.519
77.201
76.883
55.845
55.311
52.856
50.840

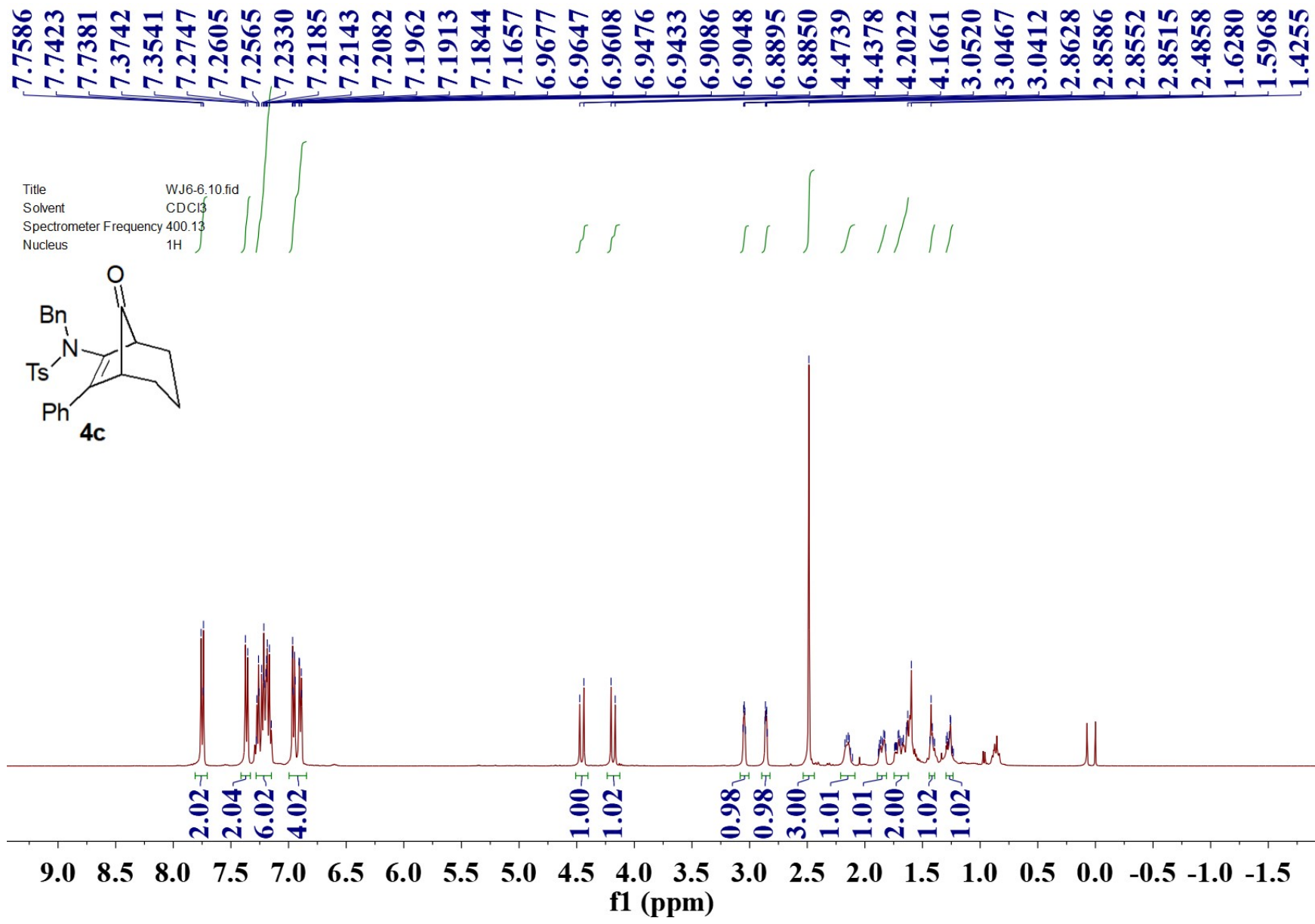
29.194
27.565
17.223
13.553

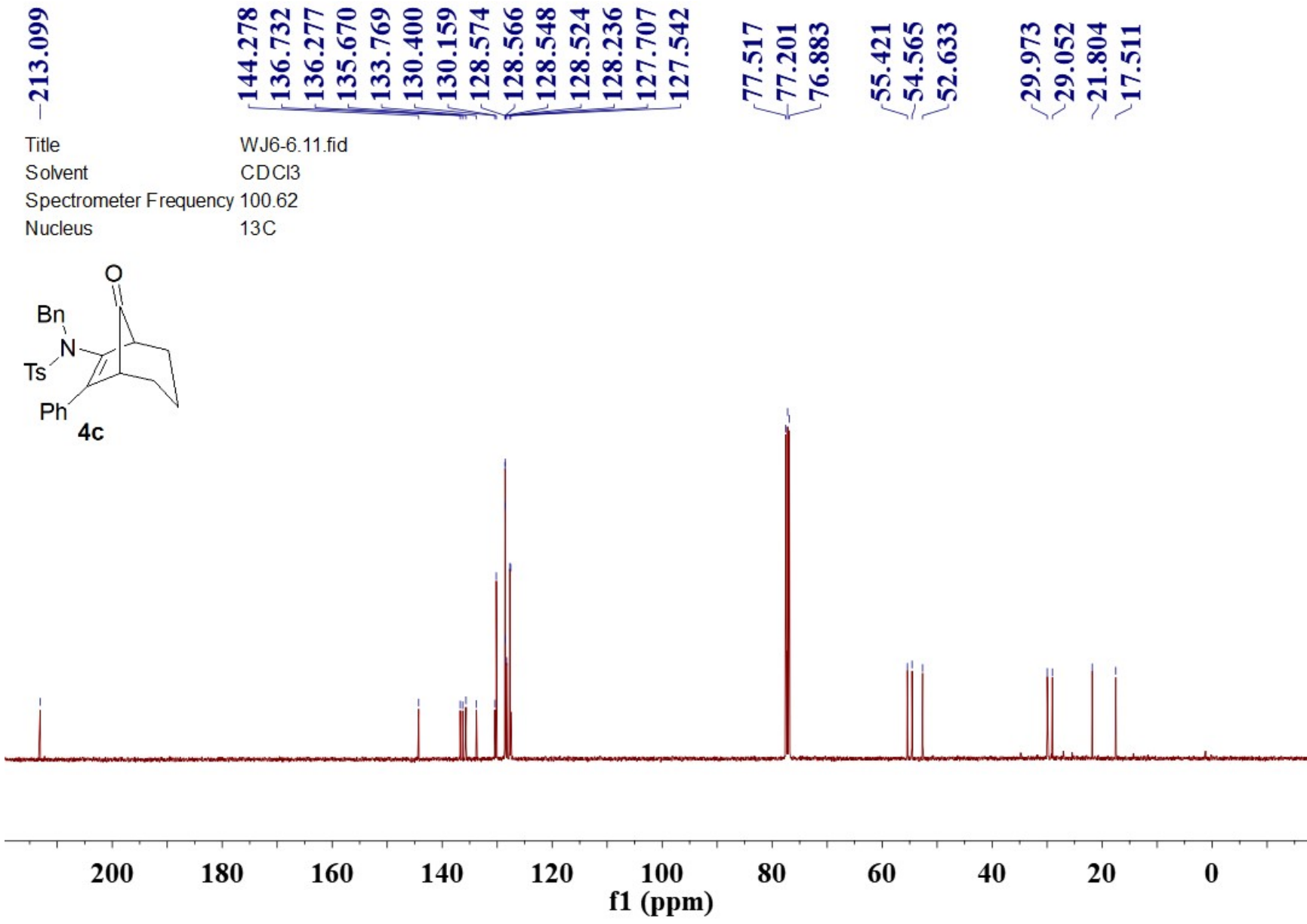
Title WJ5-75-2.11.fid
Solvent CDCl3
Spectrometer Frequency 100.62
Nucleus 13C

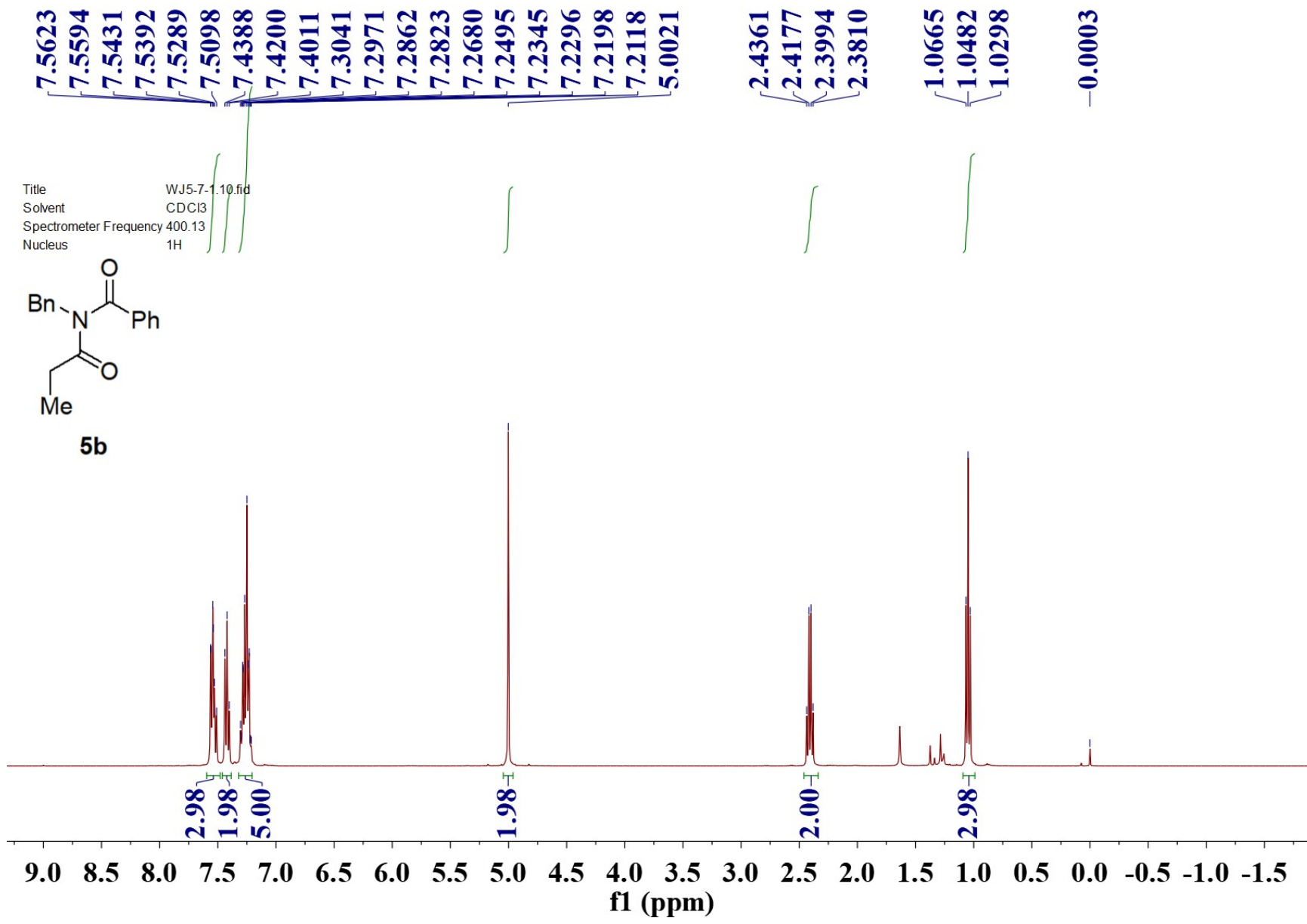


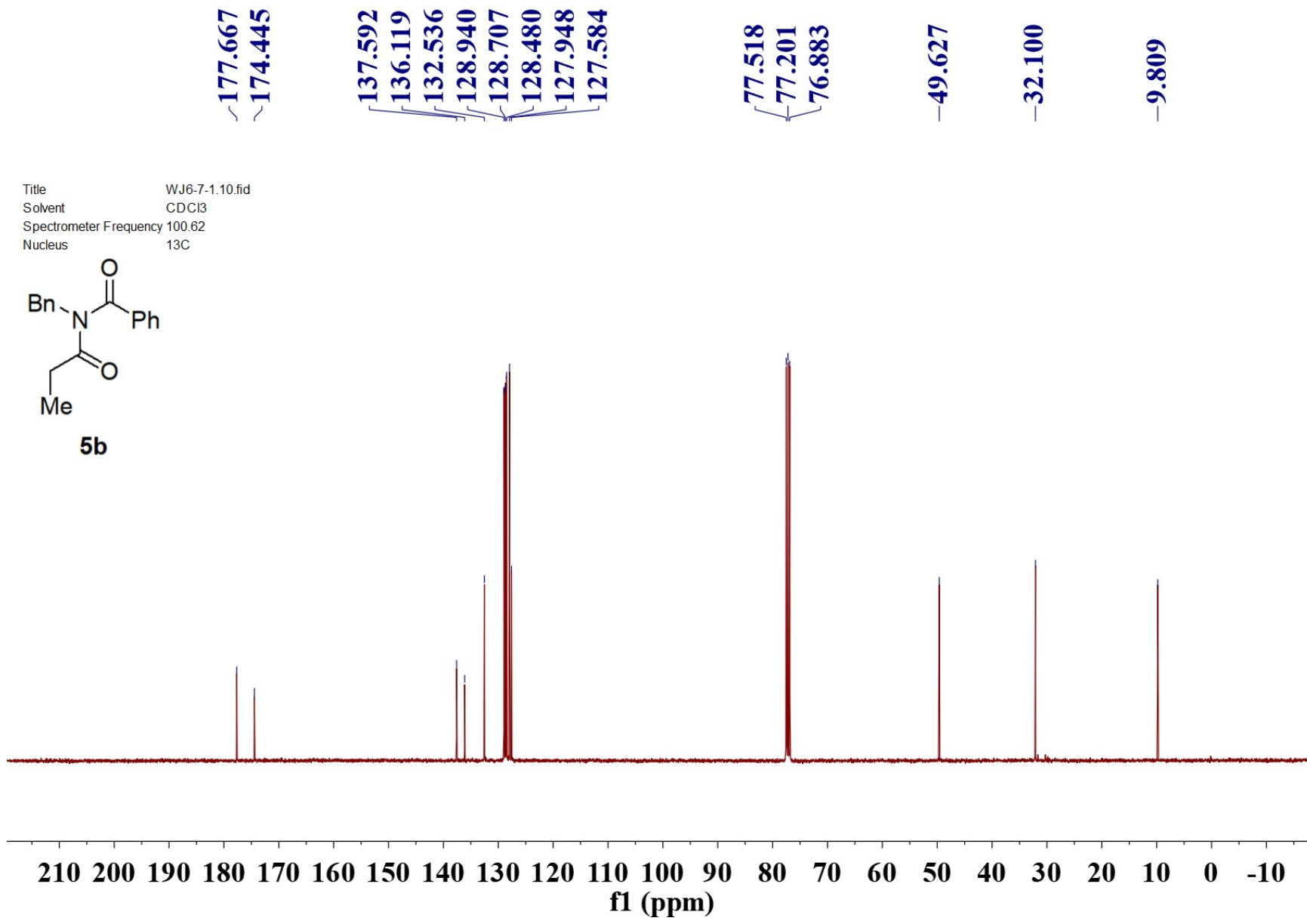




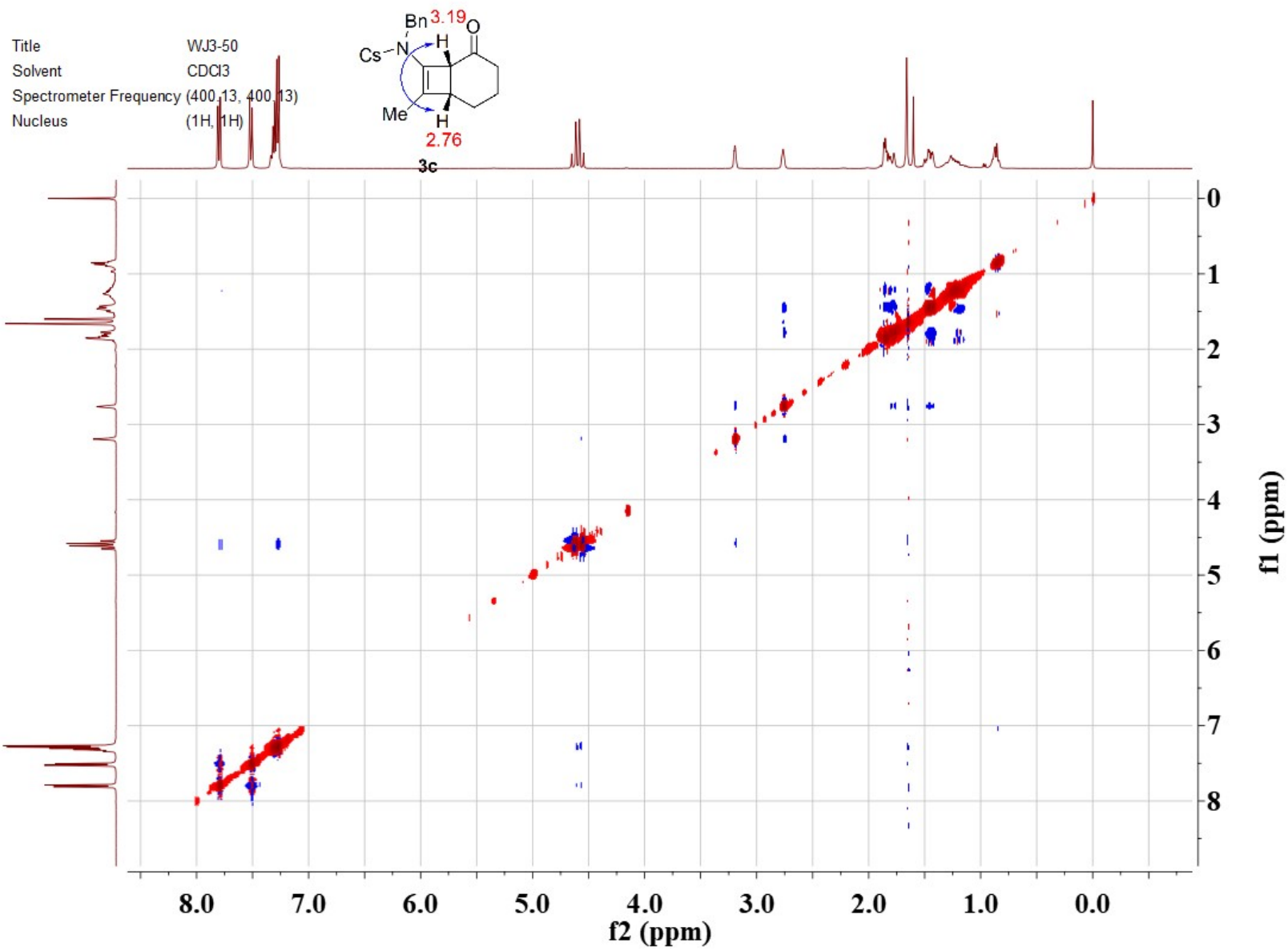




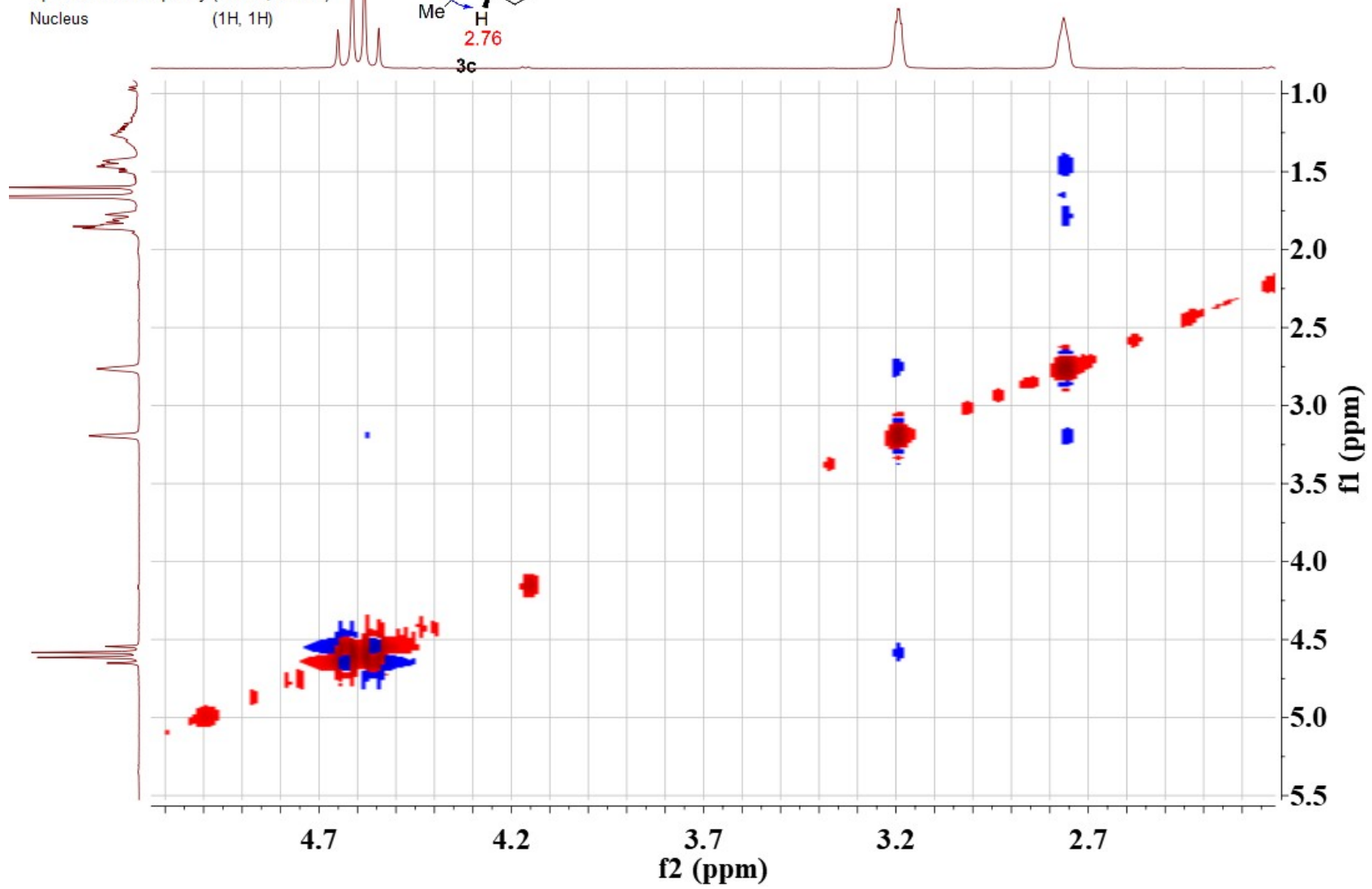
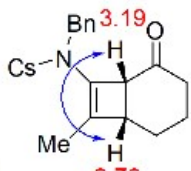




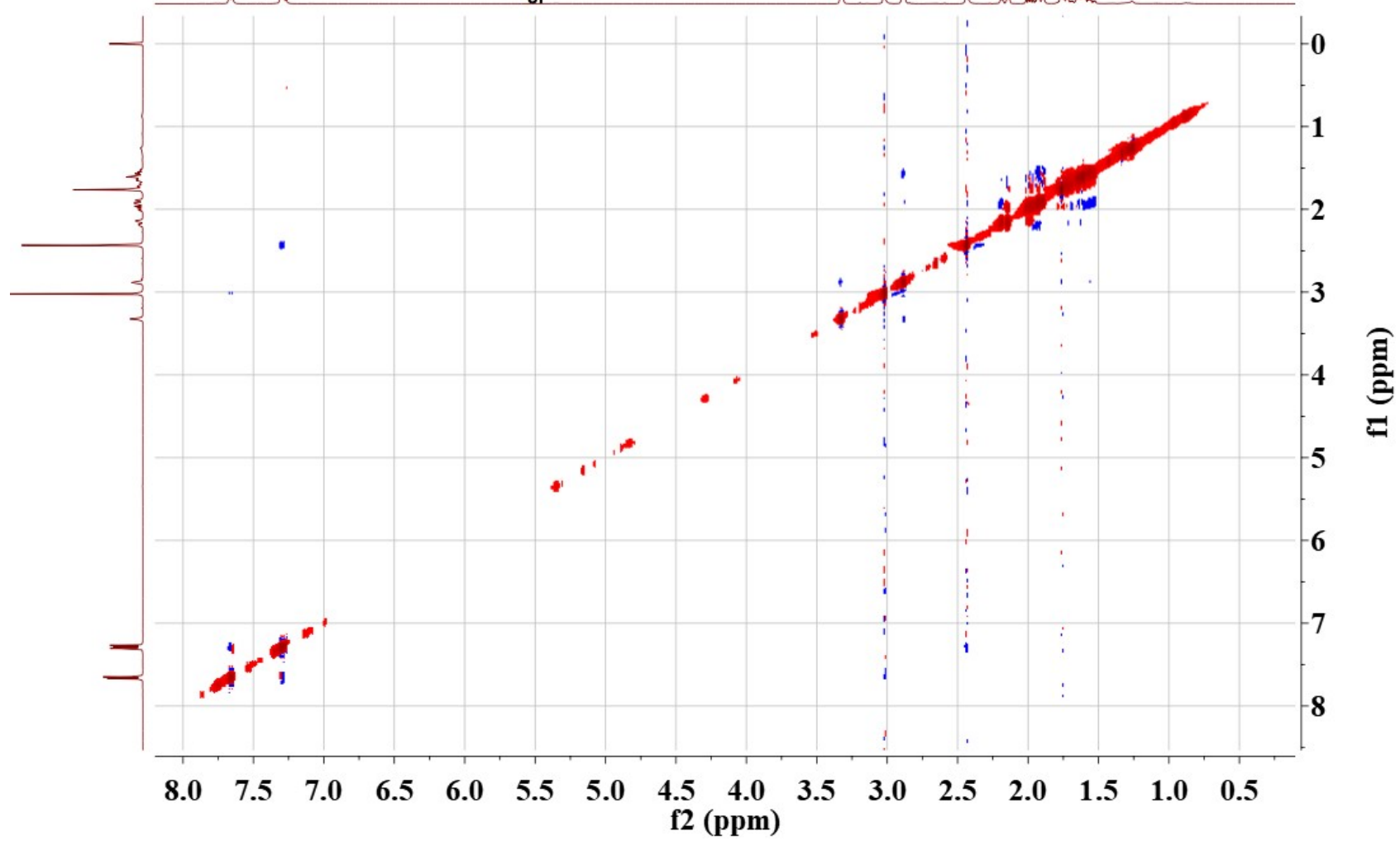
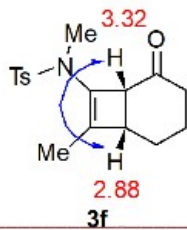
NOESY Spectra of Cyclobutenamides 3.



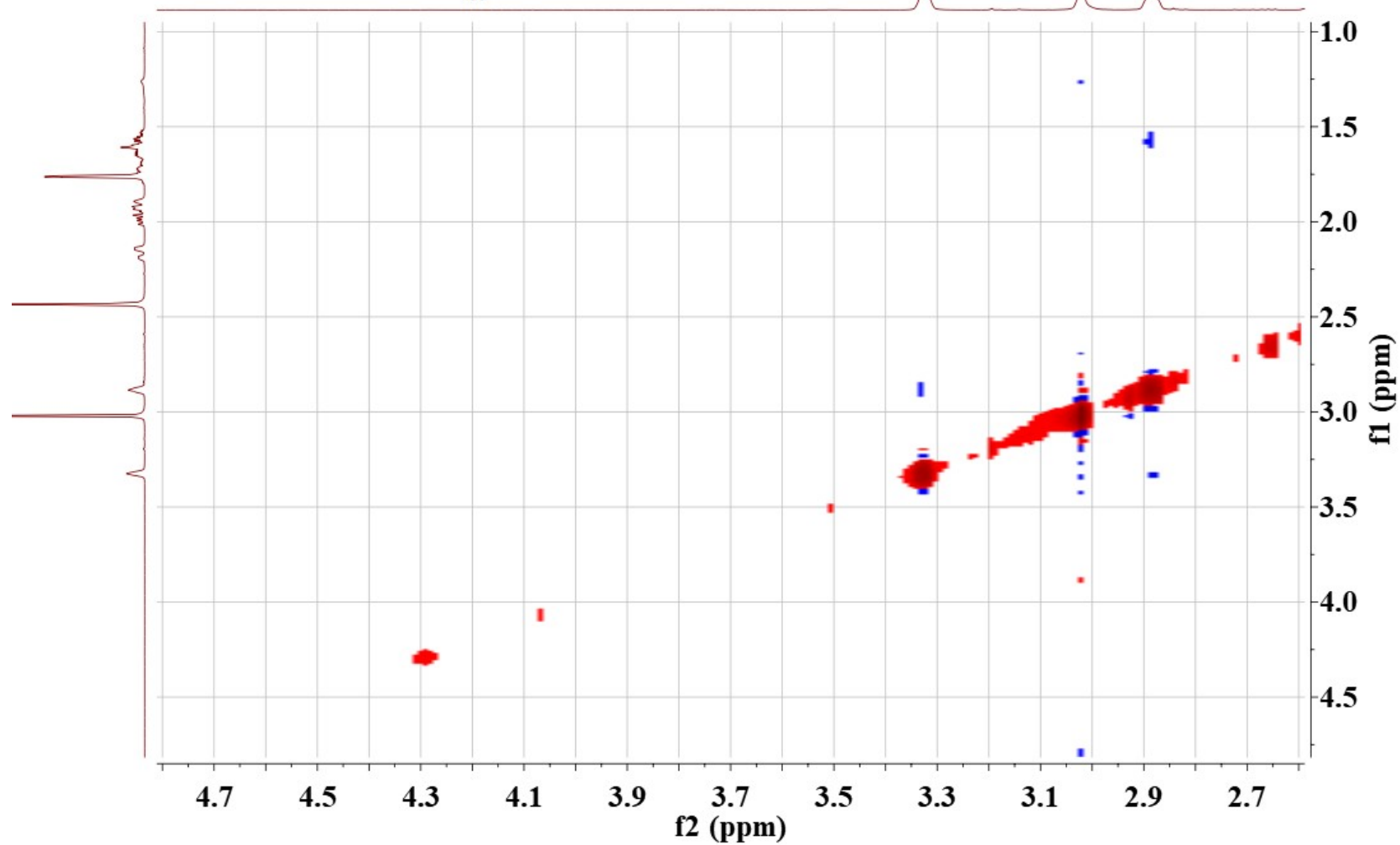
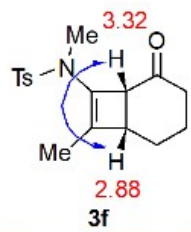
Title WJ3-50
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



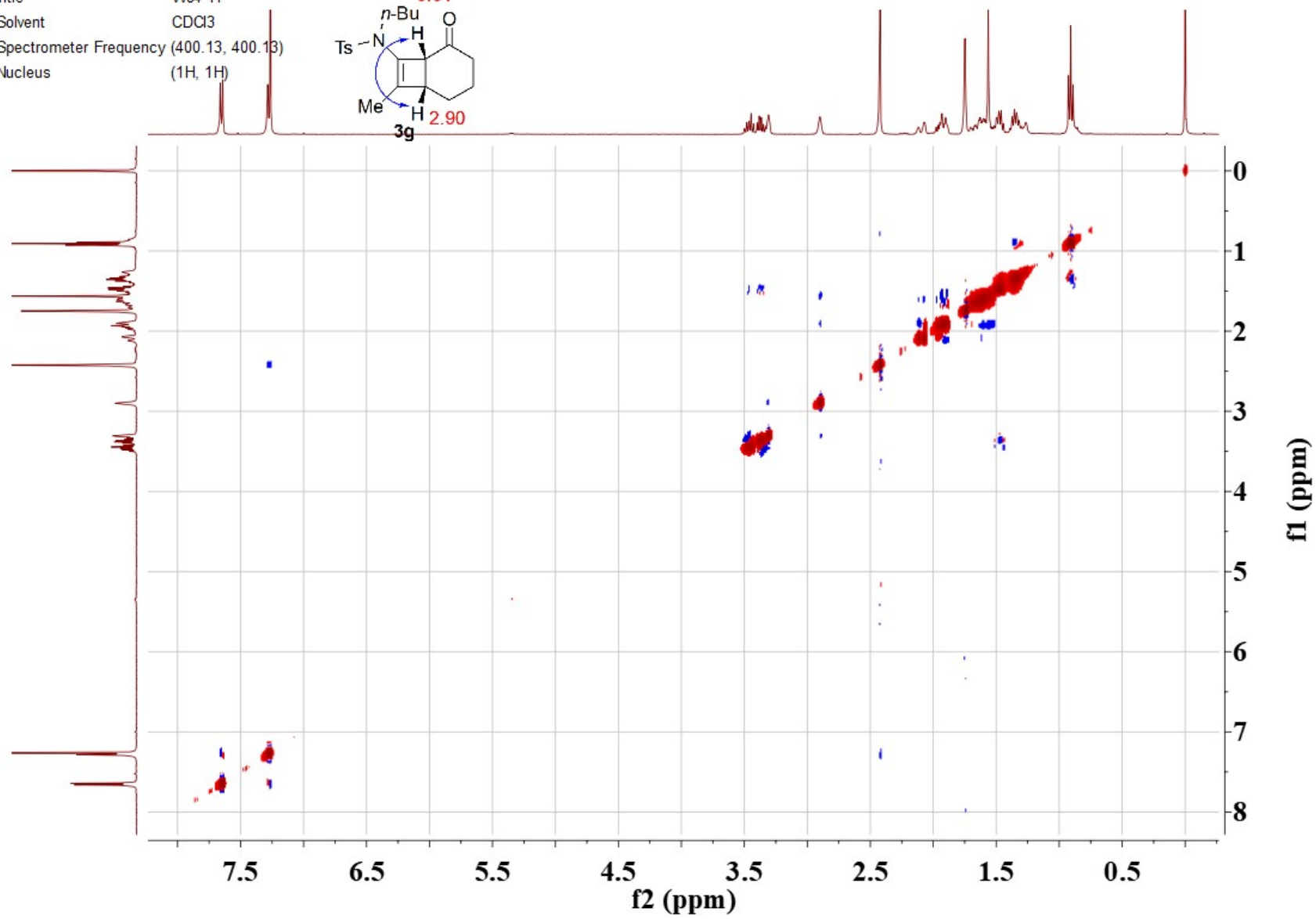
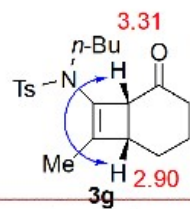
Title WJ3-74
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



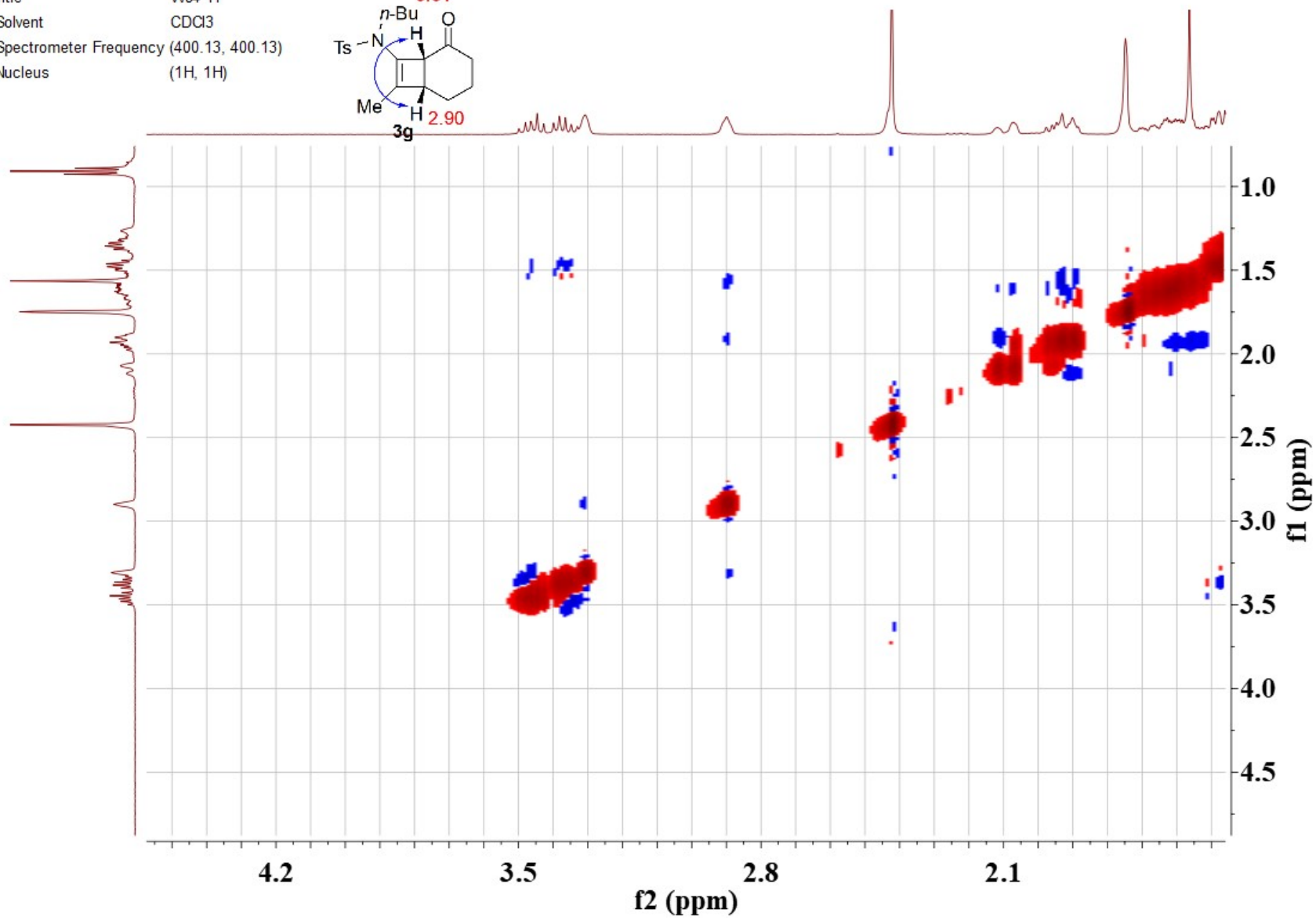
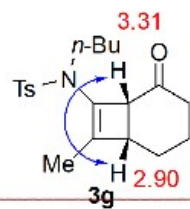
Title WJ3-74
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



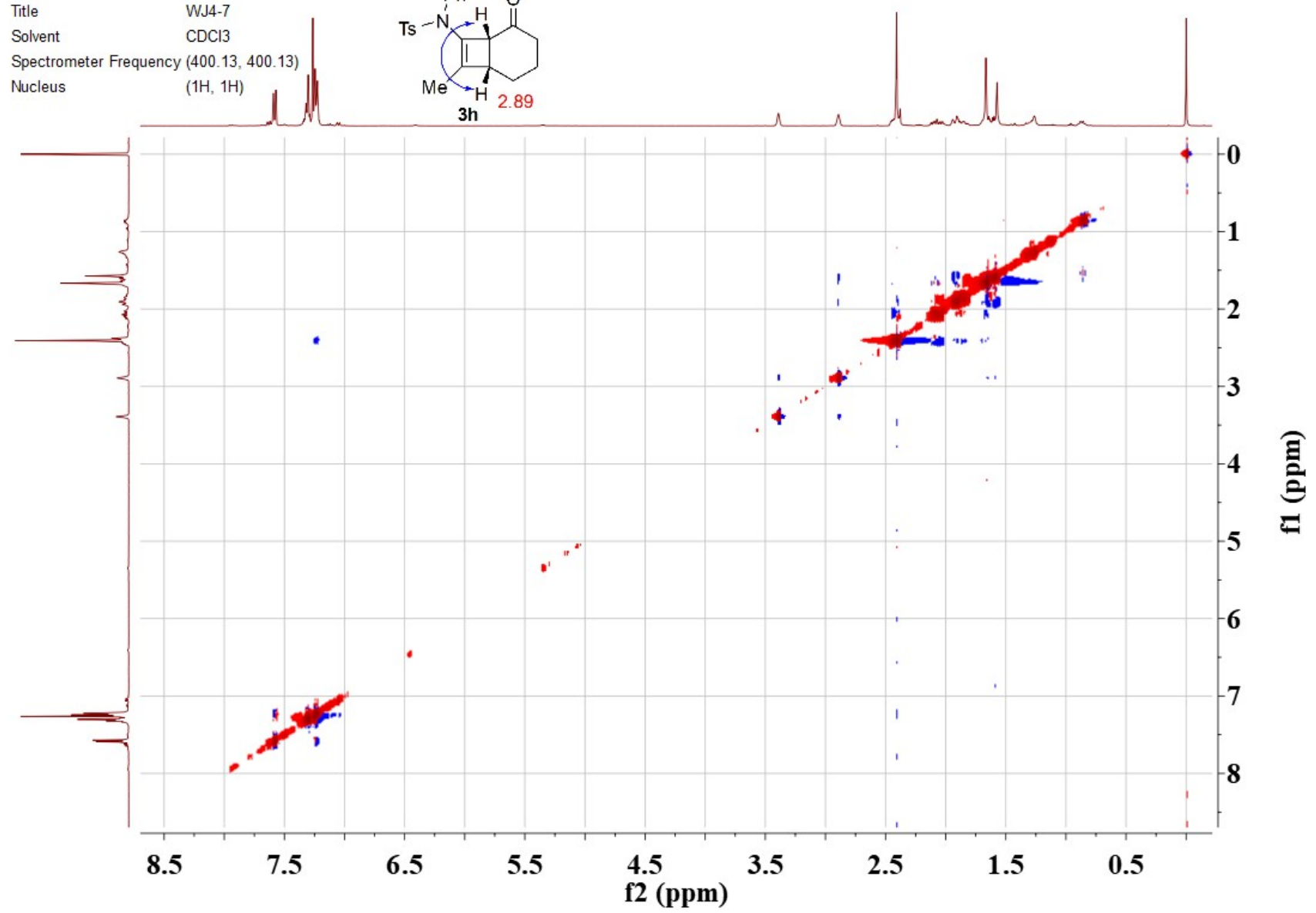
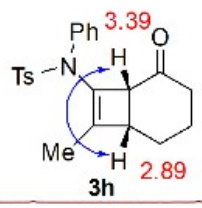
Title WJ4-11
Solvent CDCl₃
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



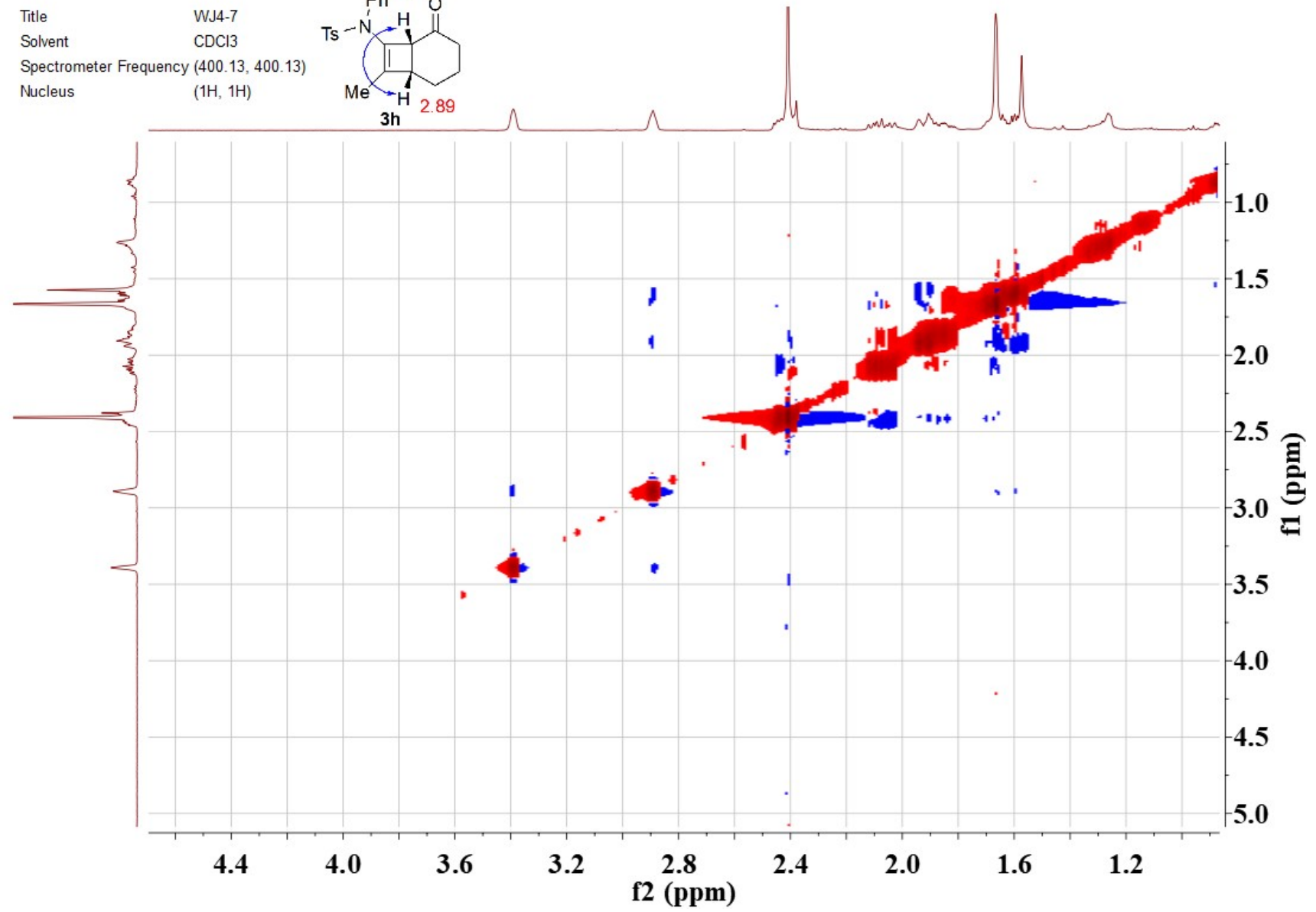
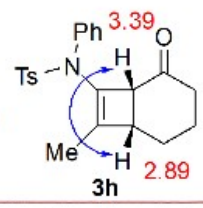
Title WJ4-11
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



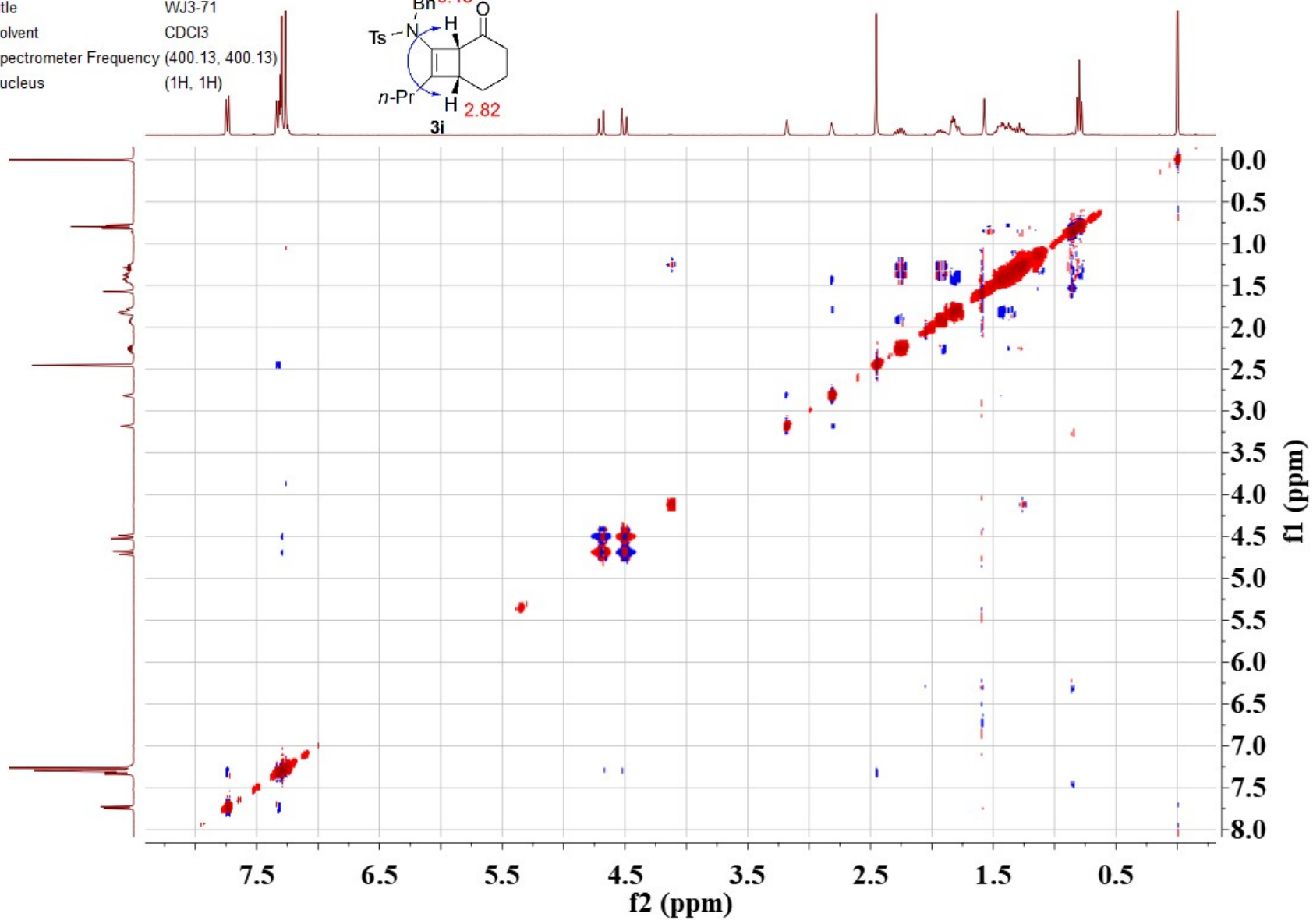
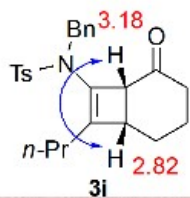
Title WJ4-7
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



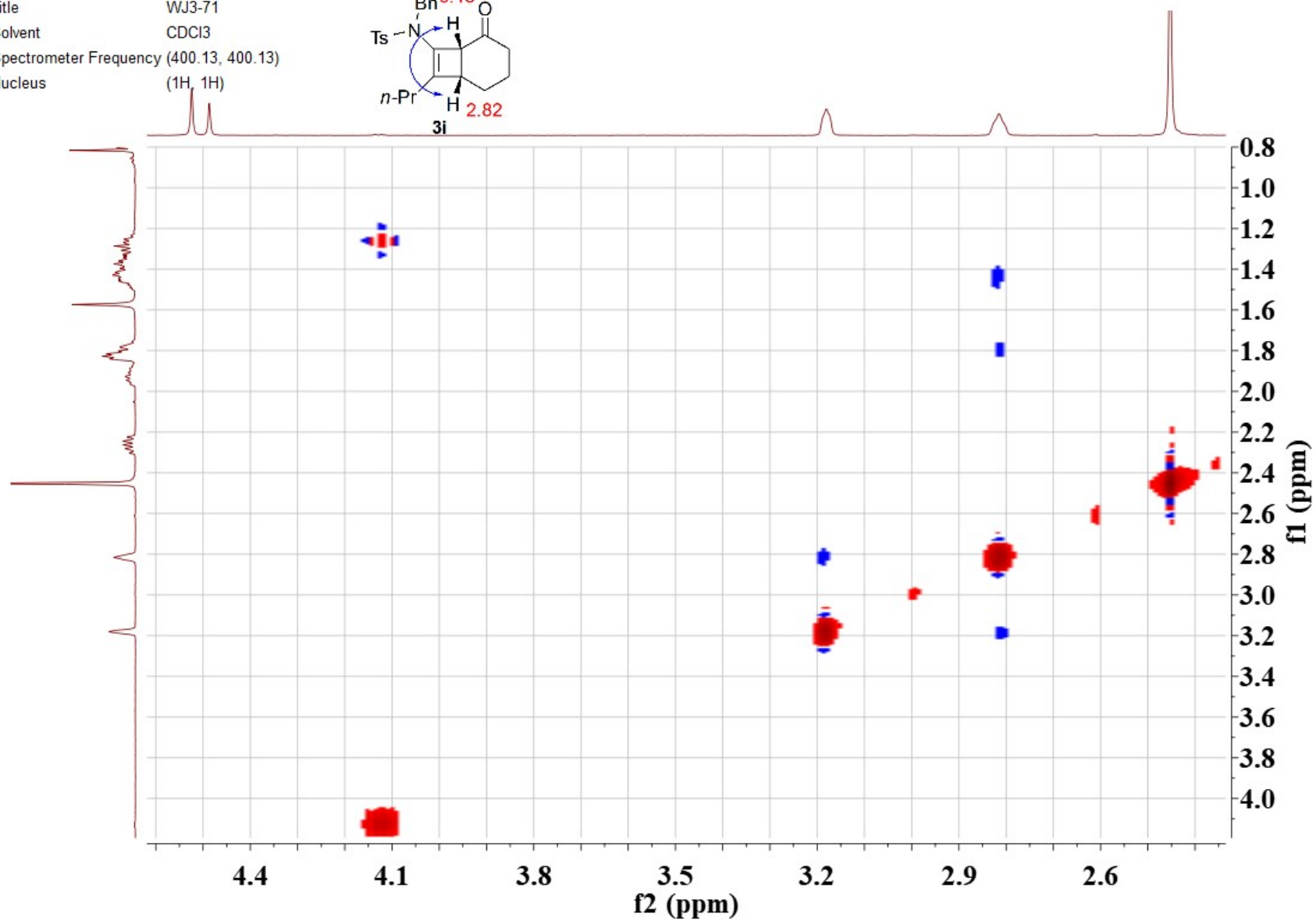
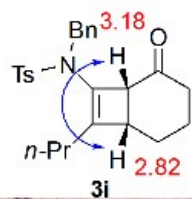
Title WJ4-7
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



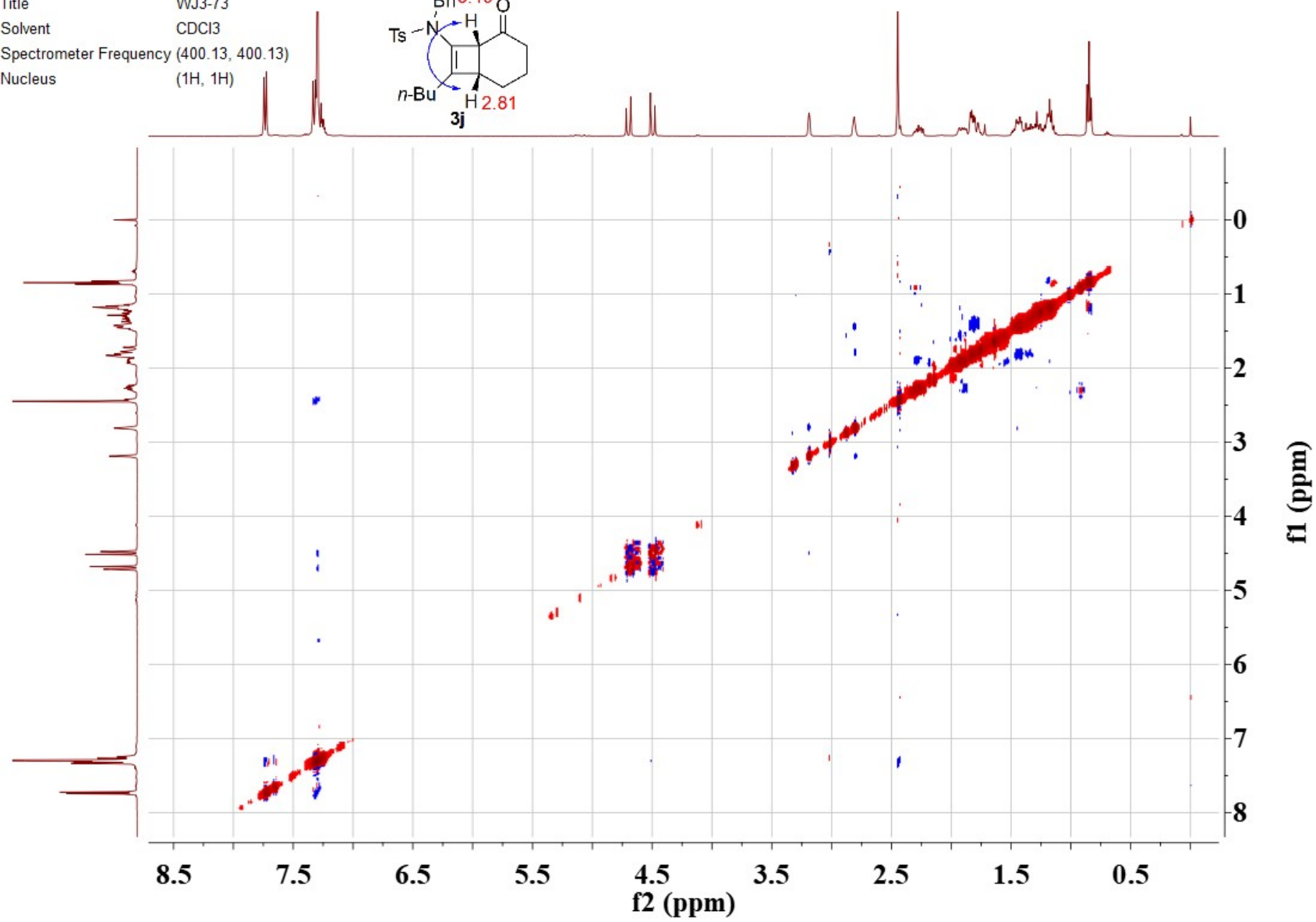
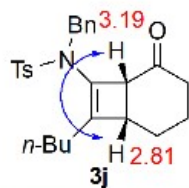
Title WJ3-71
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



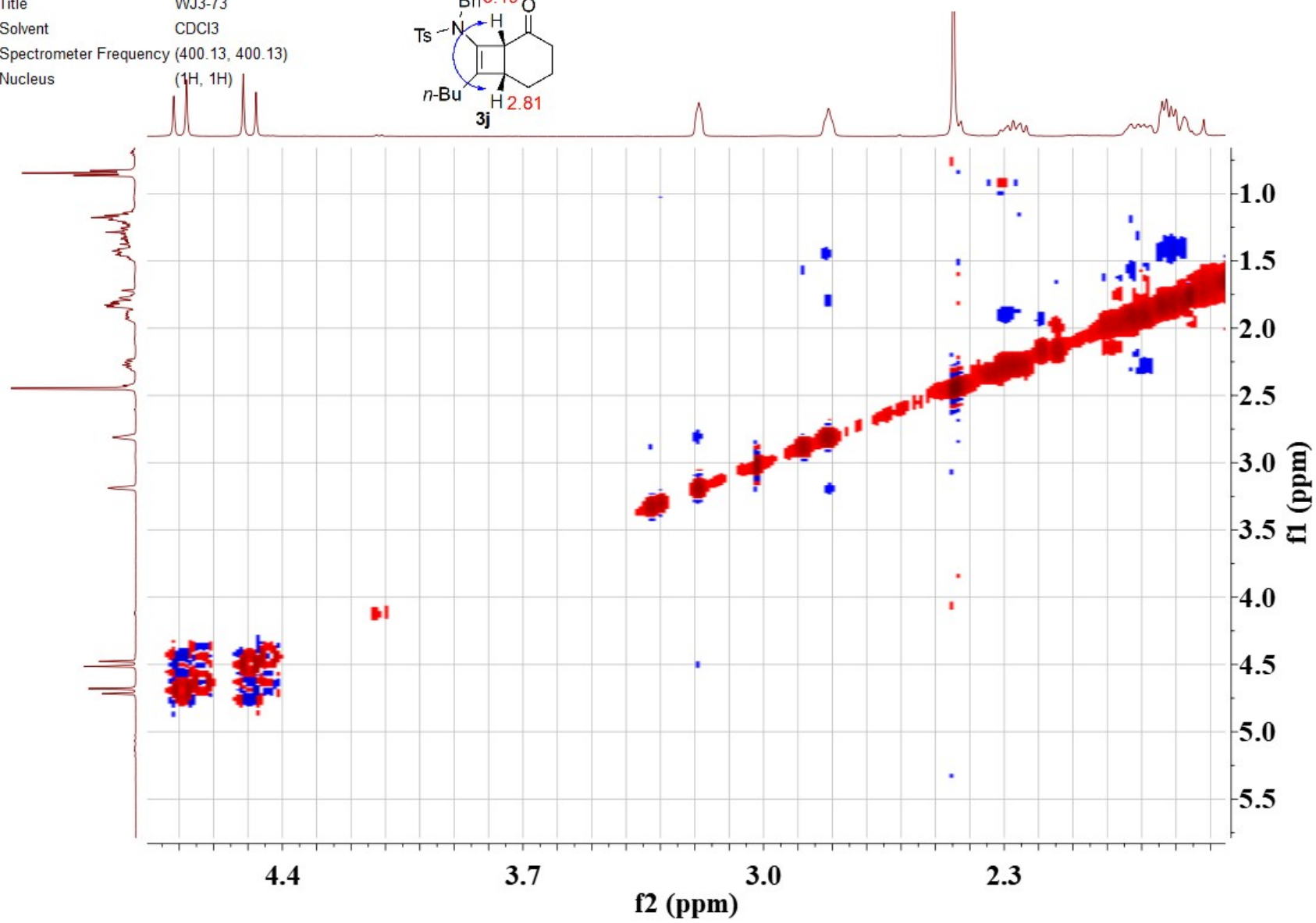
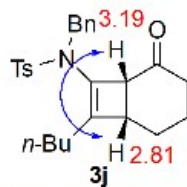
Title WJ3-71
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



Title WJ3-73
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)

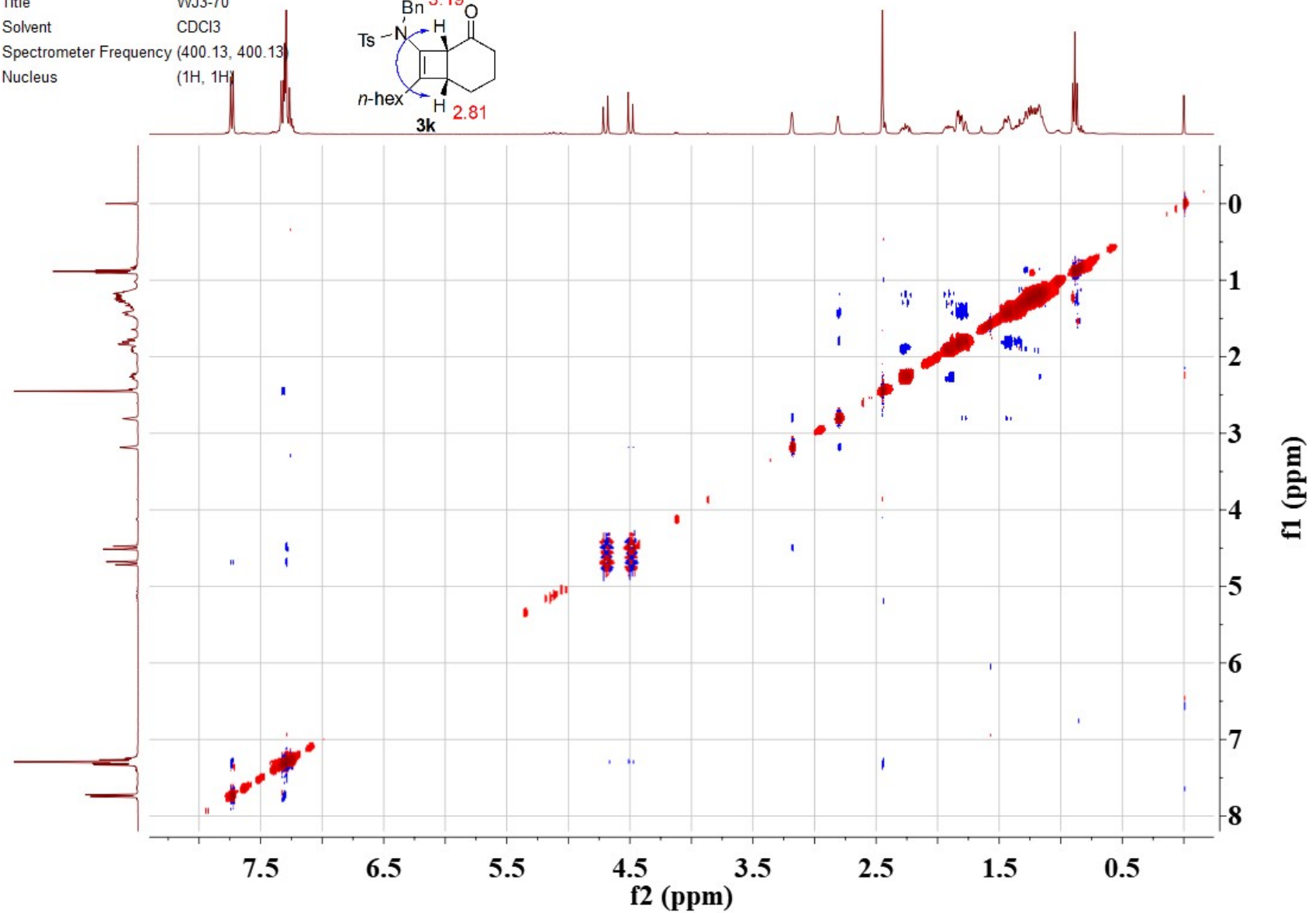
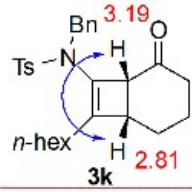


Title WJ3-73
Solvent CDCl₃
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)

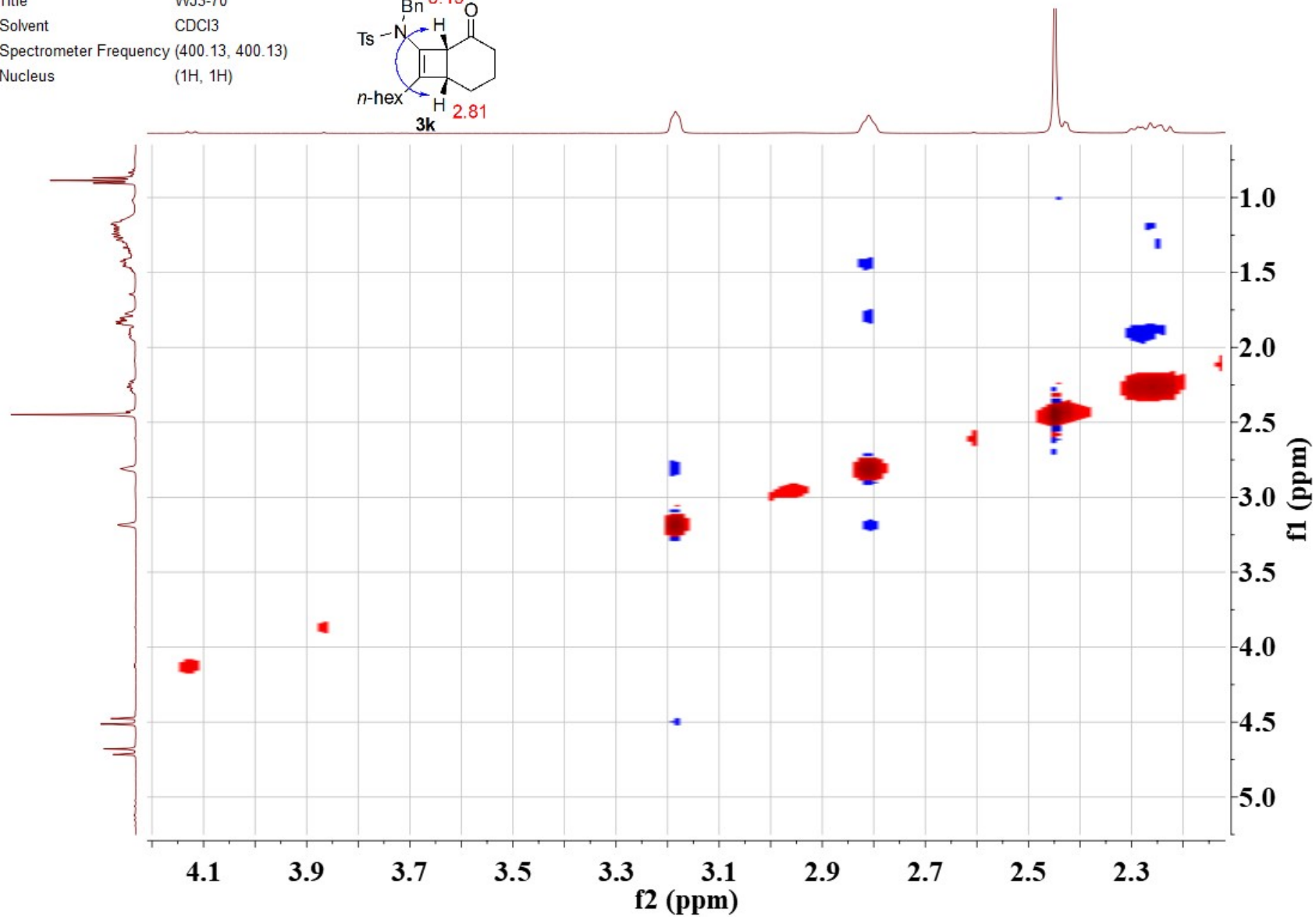
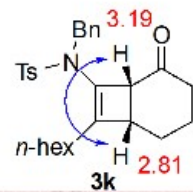


S100

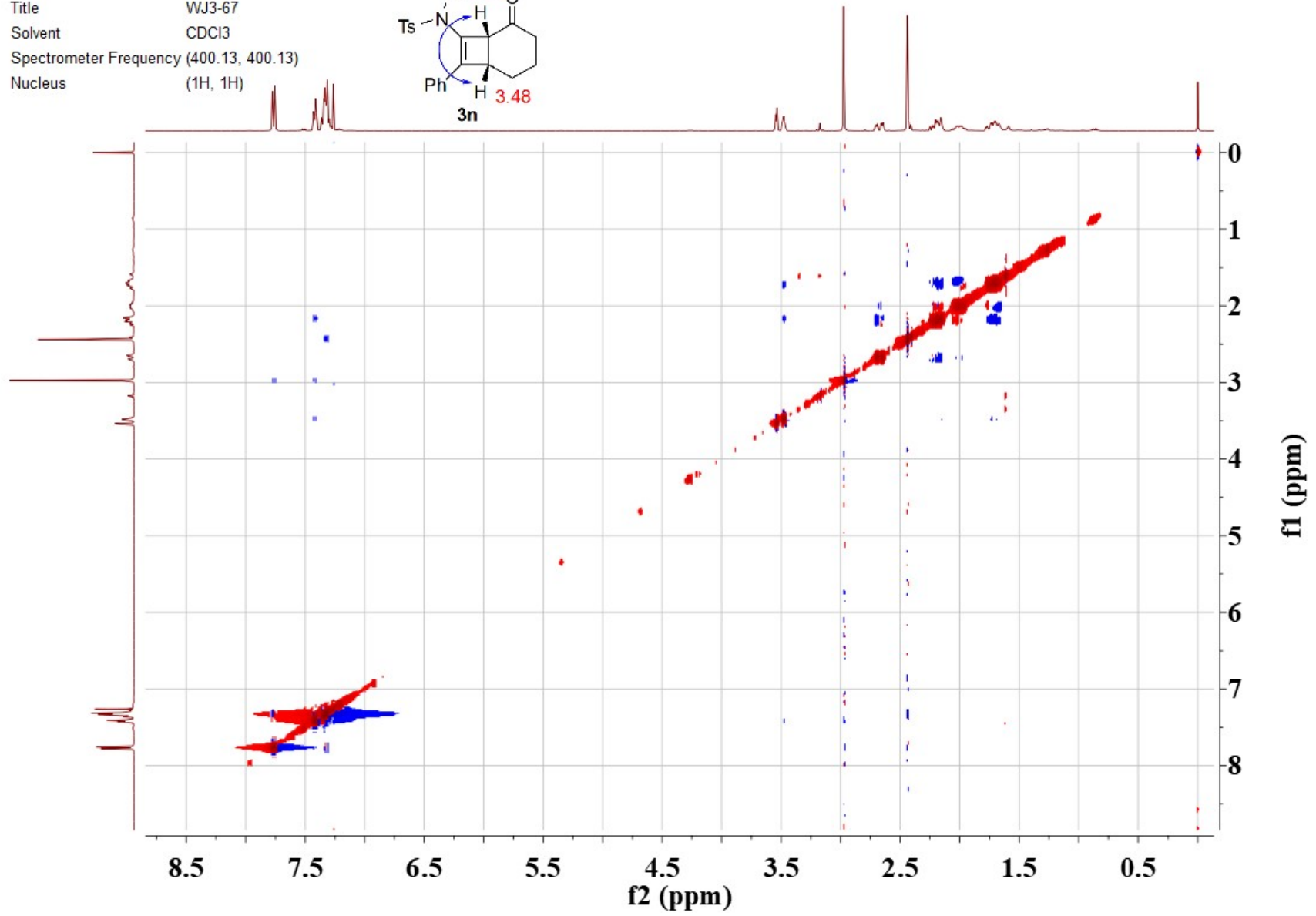
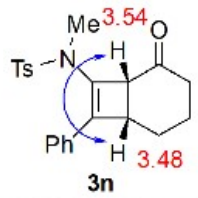
Title WJ3-70
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



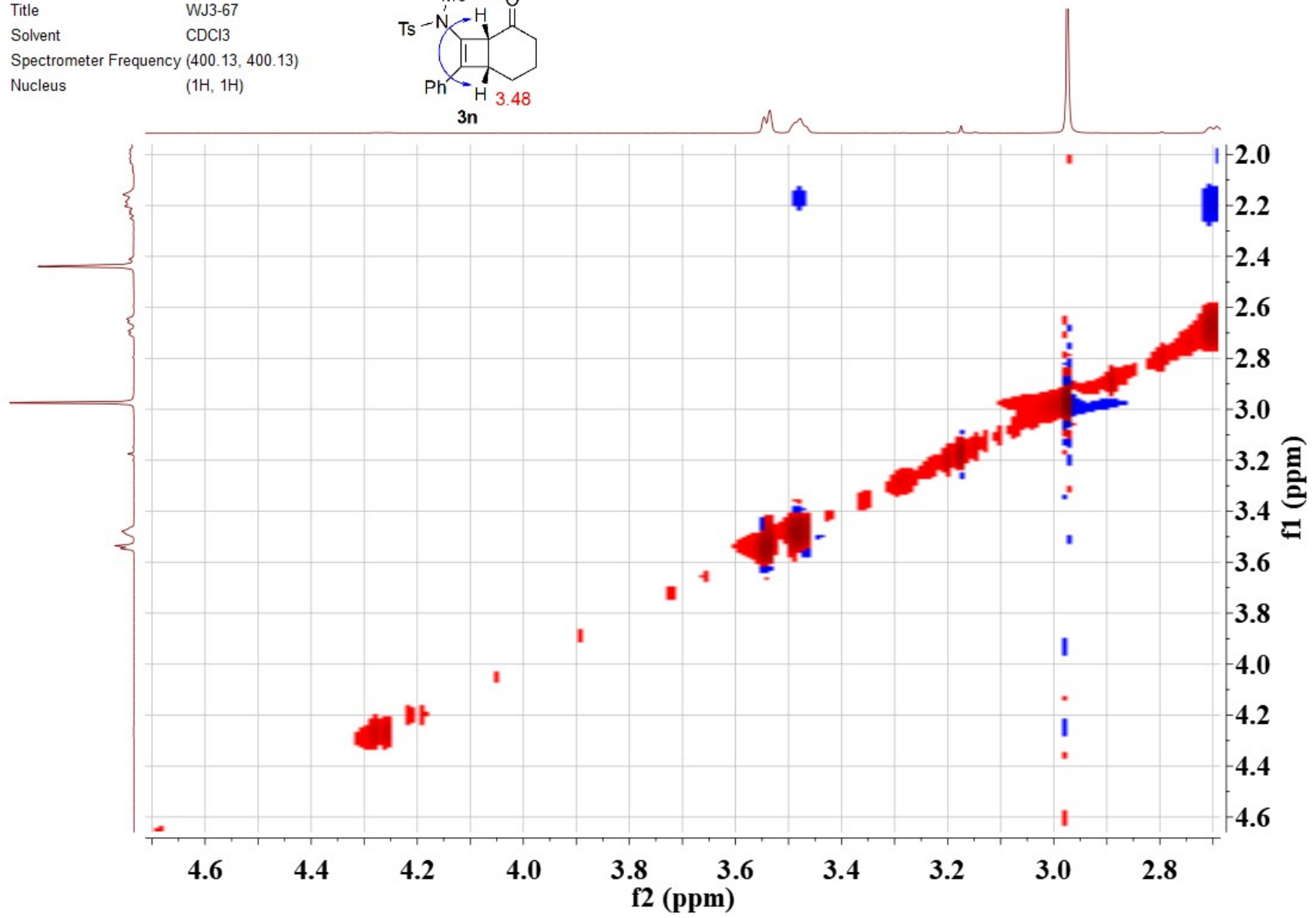
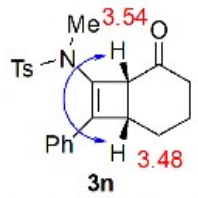
Title WJ3-70
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



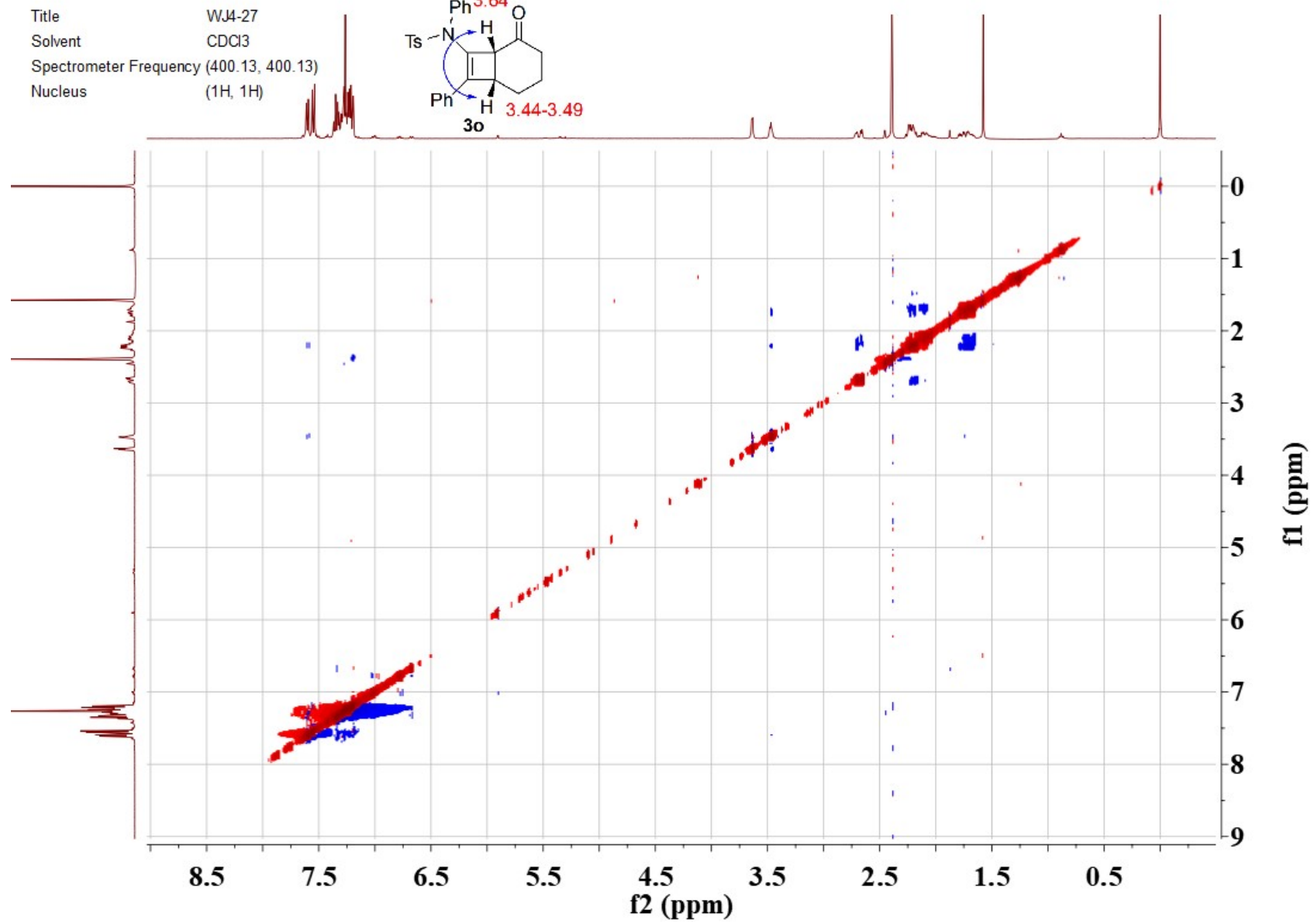
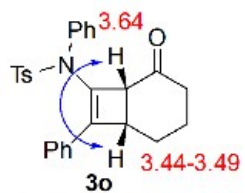
Title WJ3-67
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



Title WJ3-67
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)

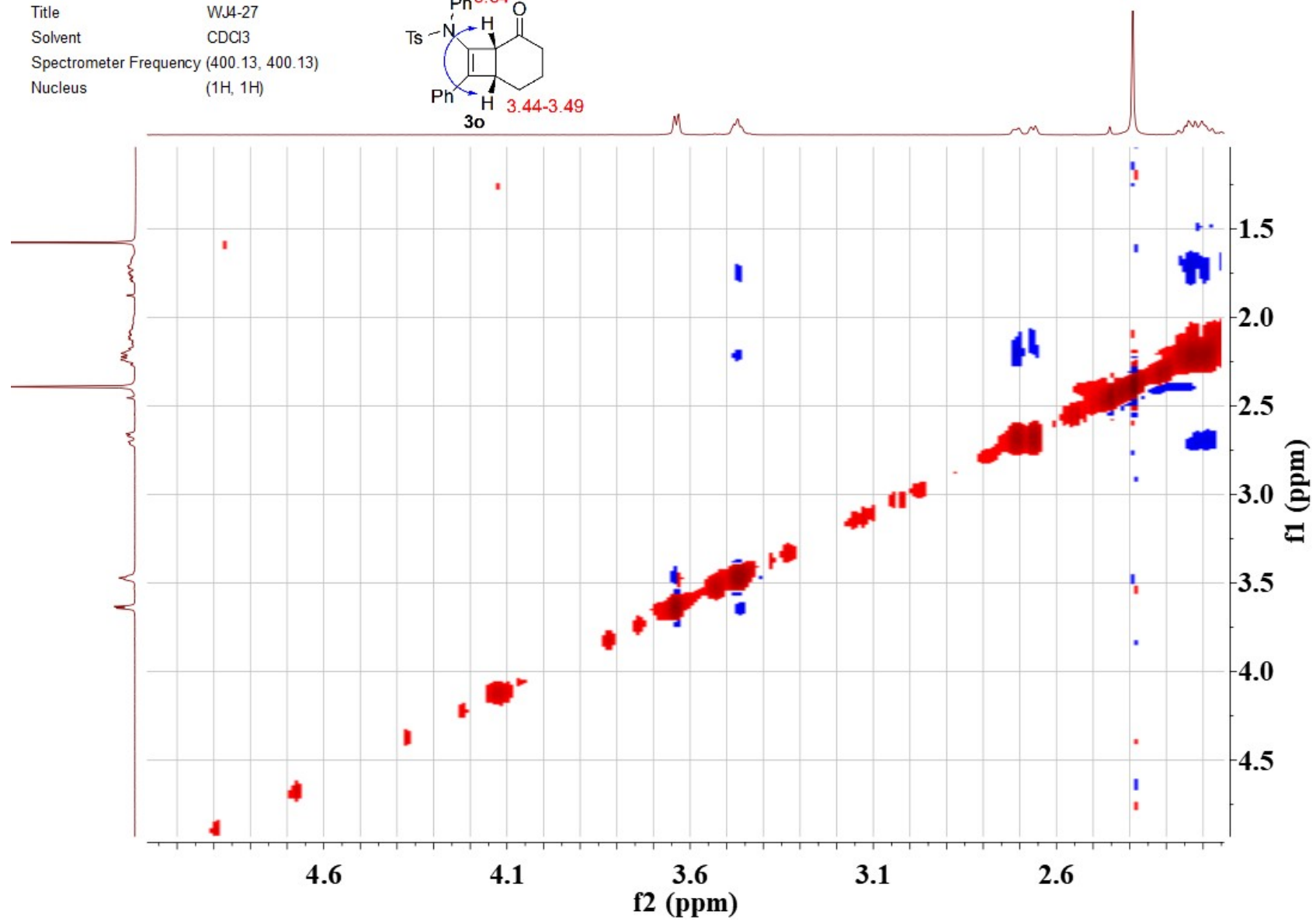
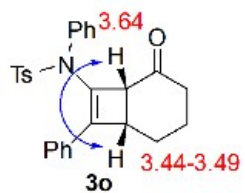


Title WJ4-27
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



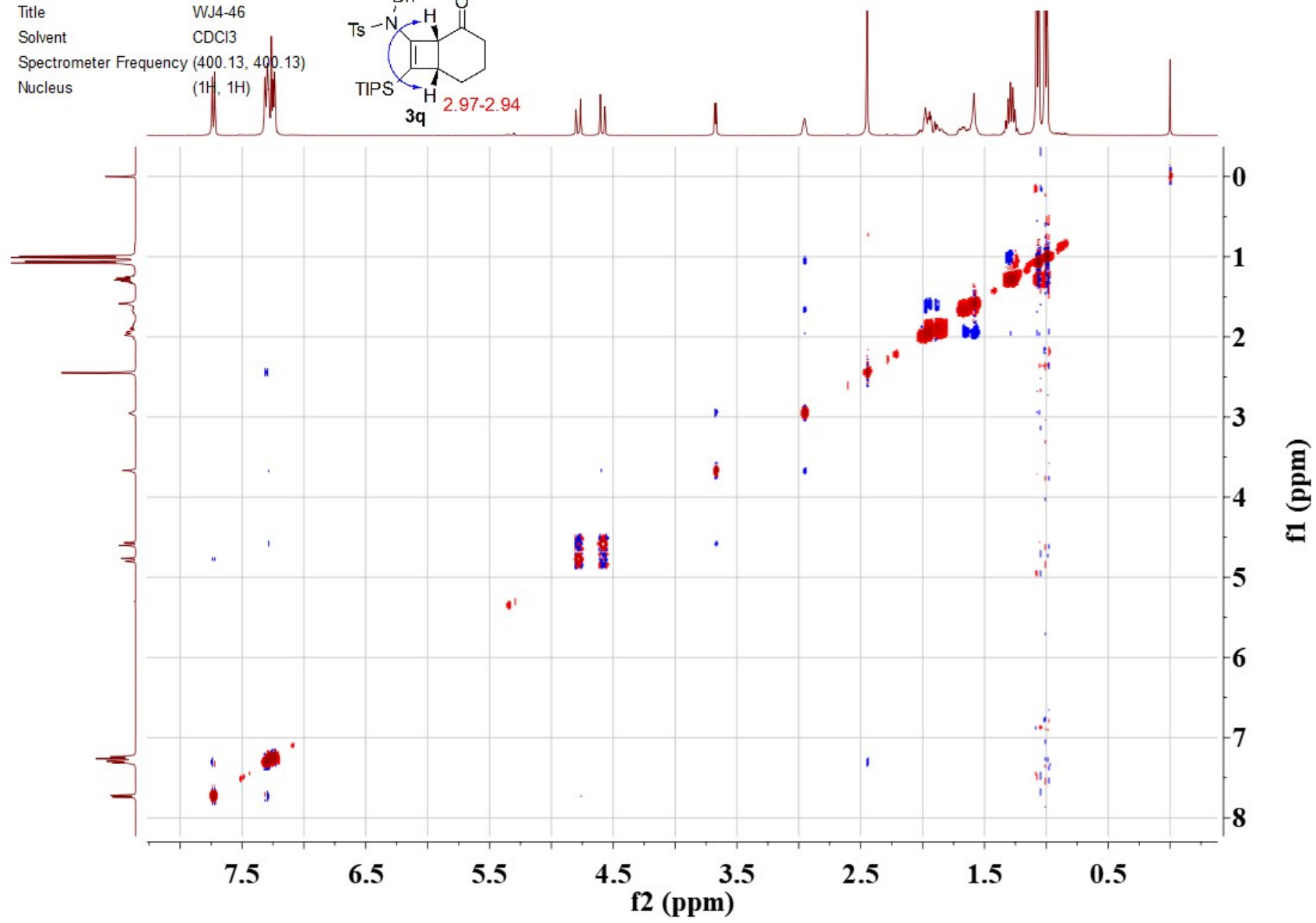
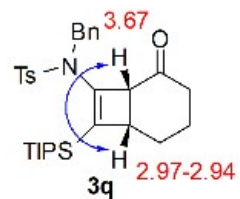
S105

Title WJ4-27
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



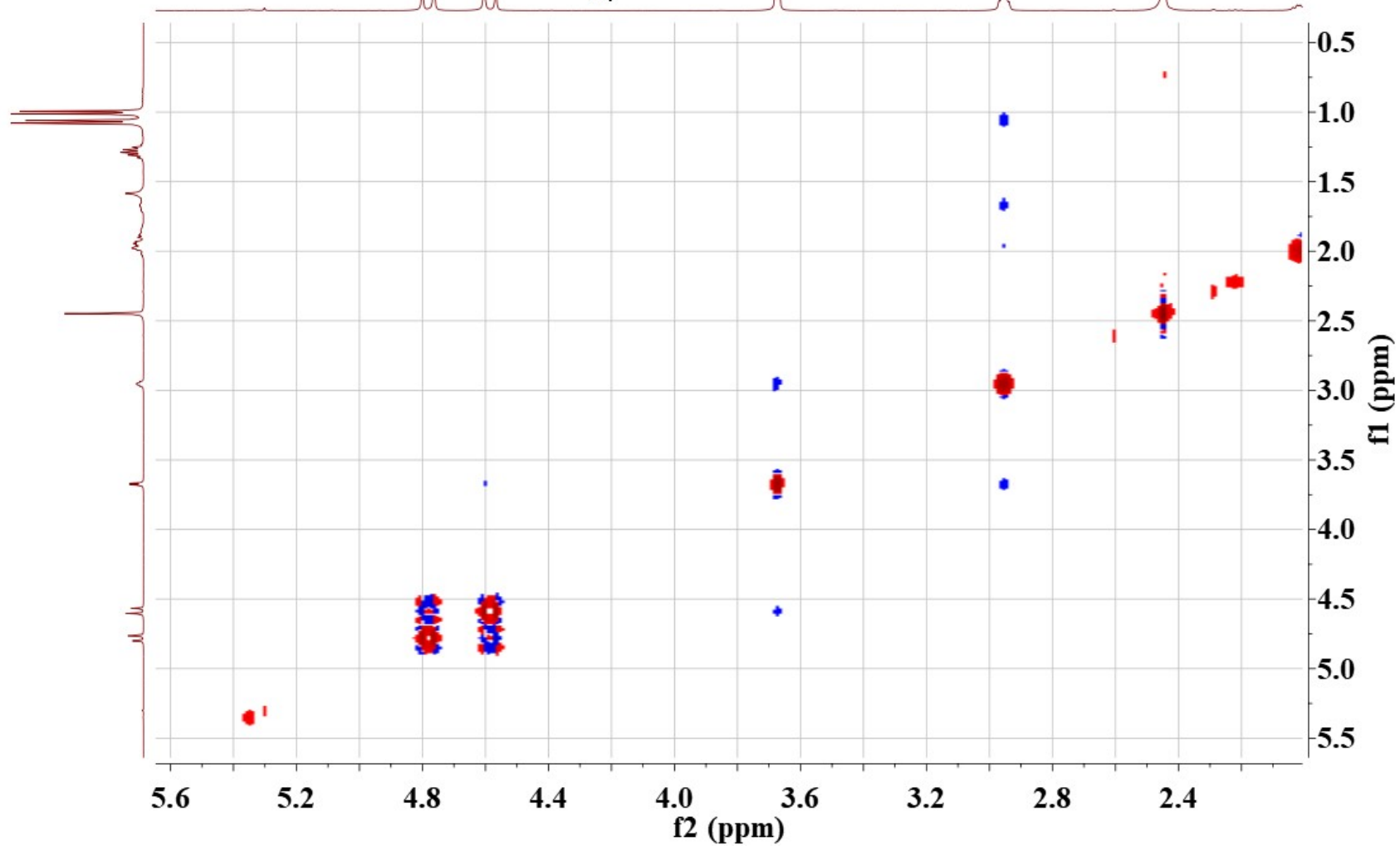
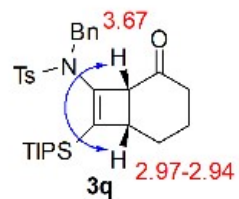
S106

Title WJ4-46
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



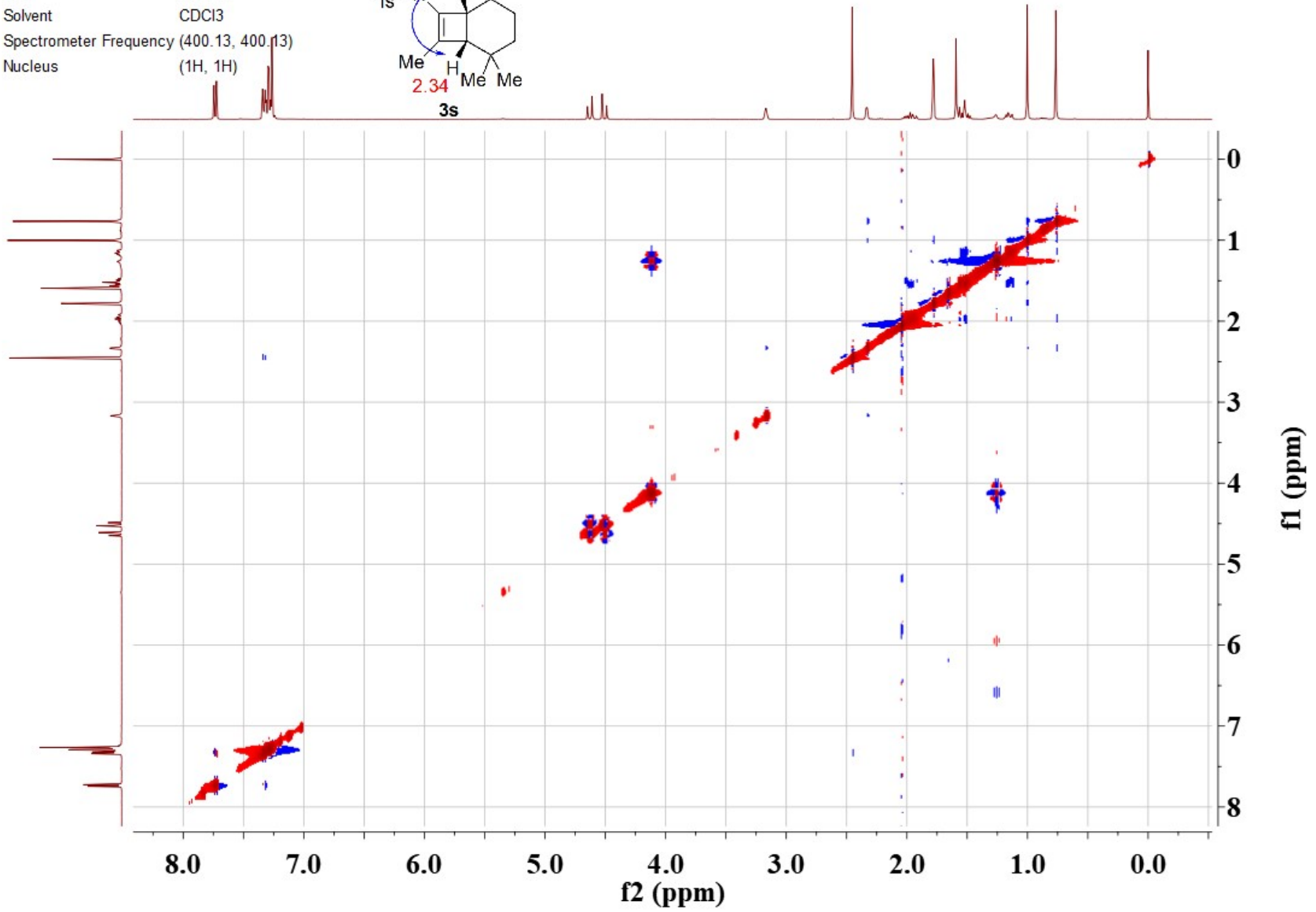
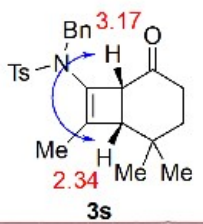
S107

Title WJ4-46
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)

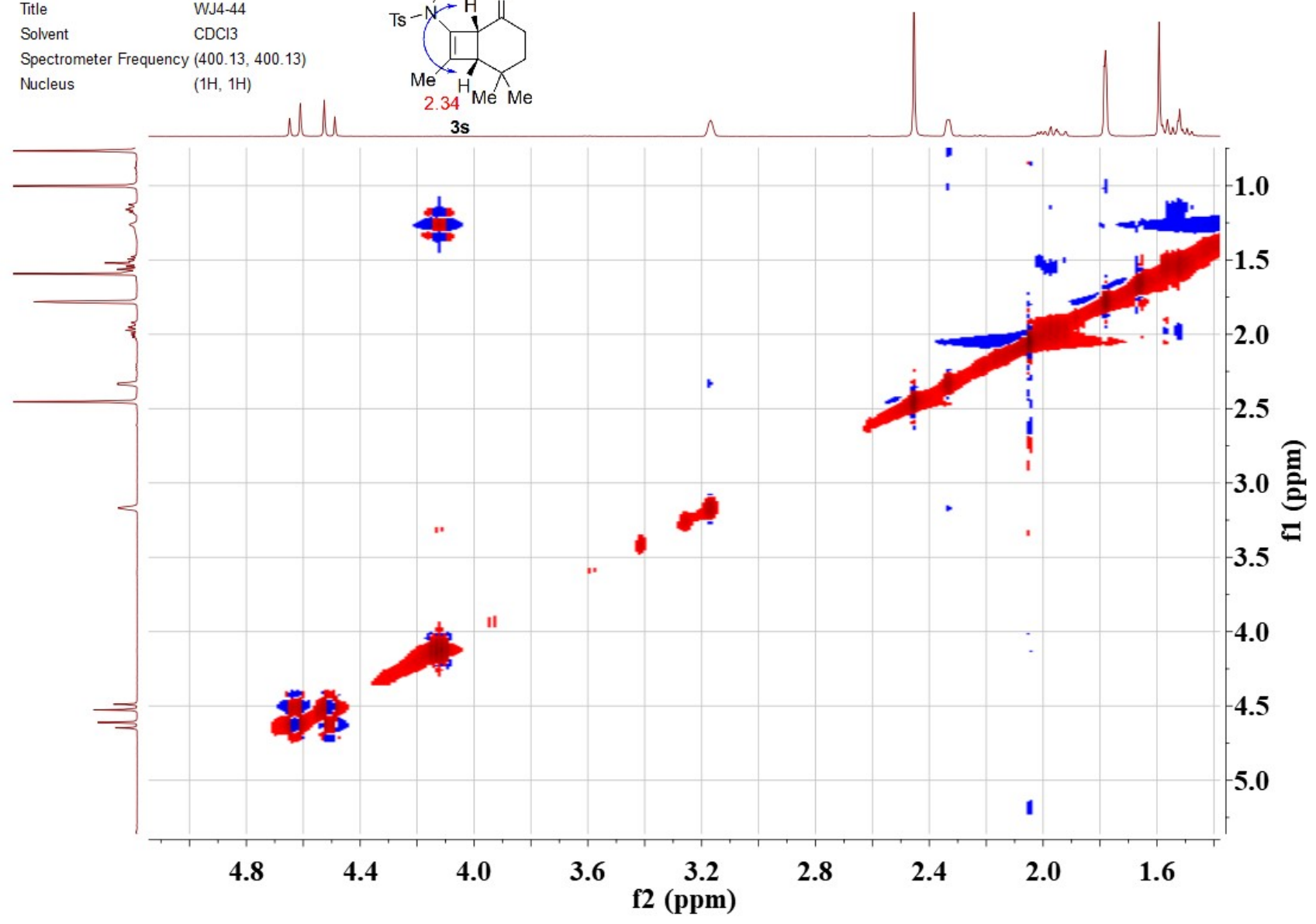
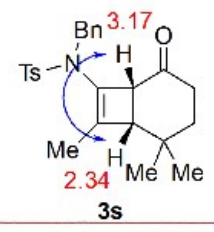


S108

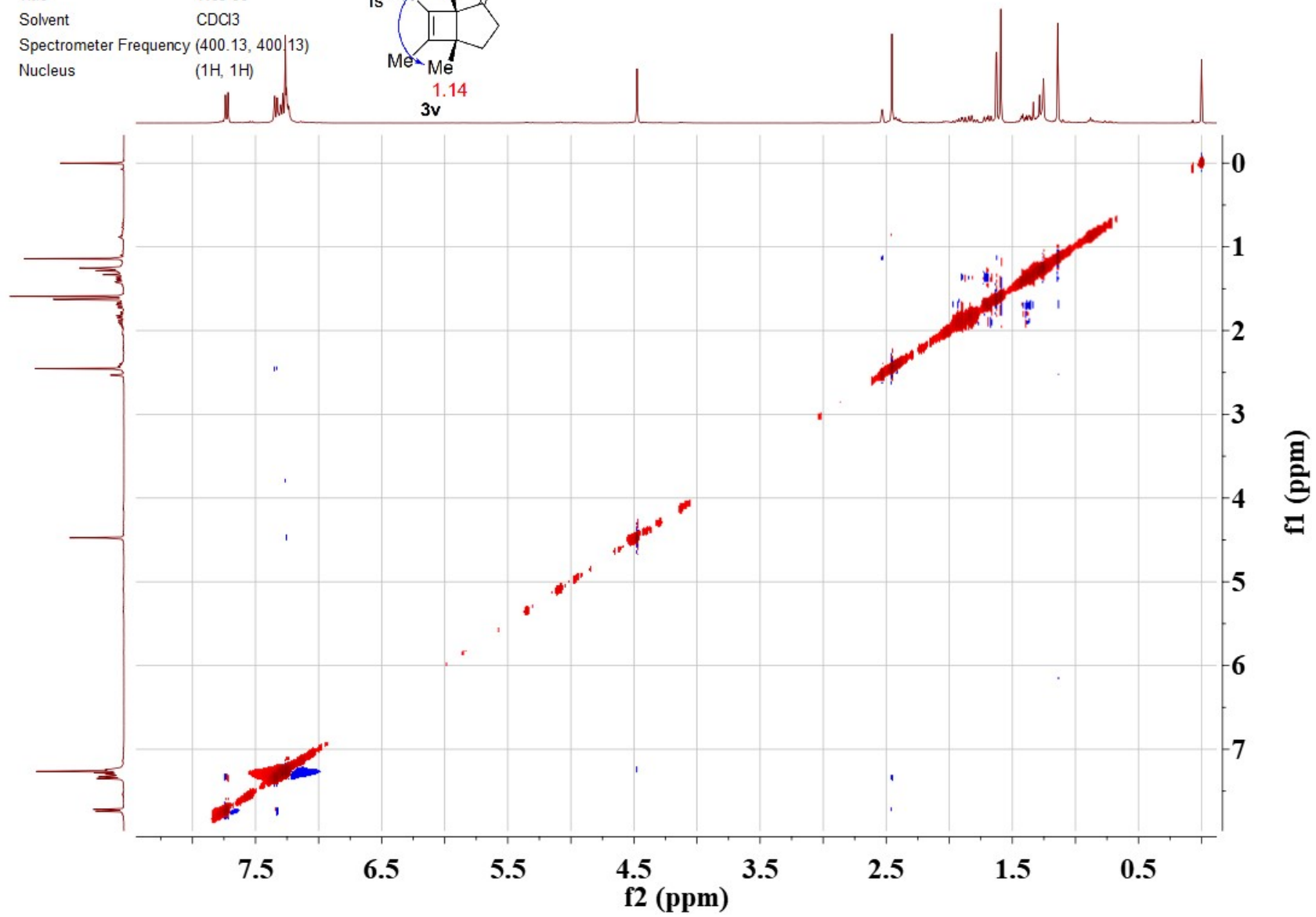
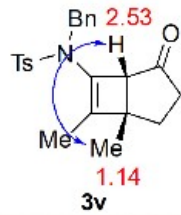
Title WJ4-44
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



Title WJ4-44
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)

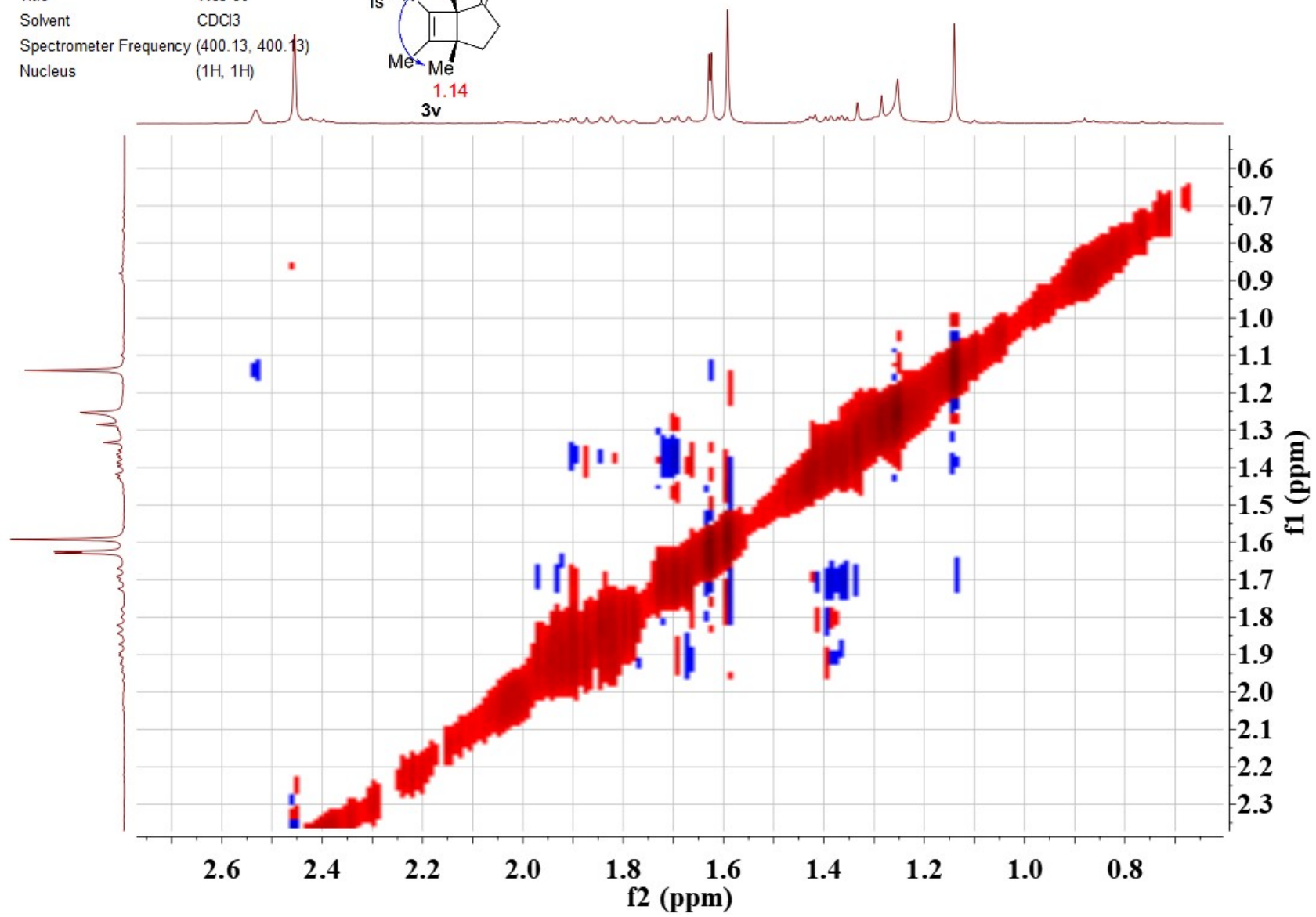
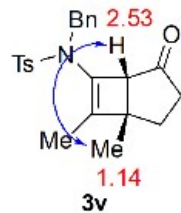


Title WJ3-80
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



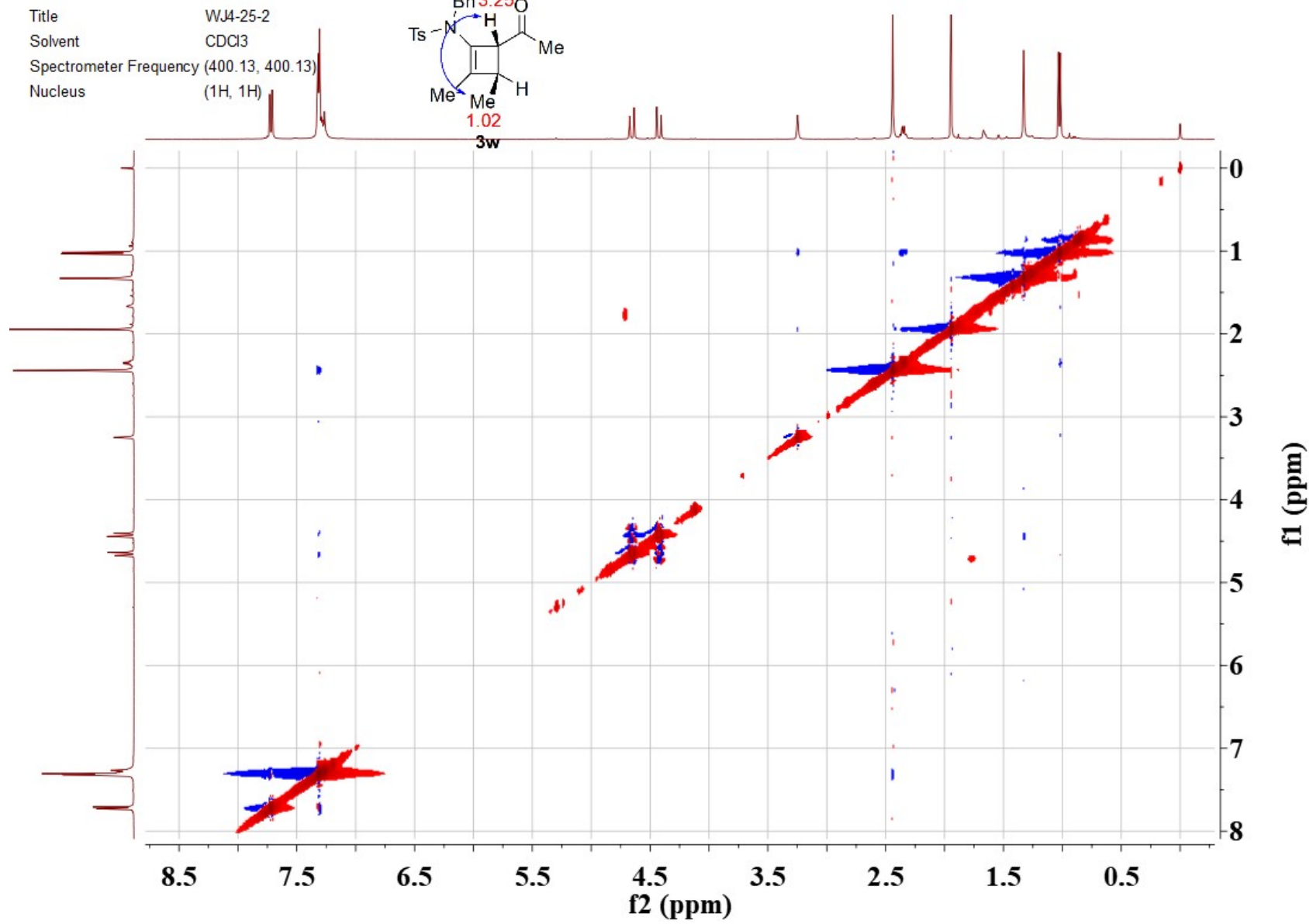
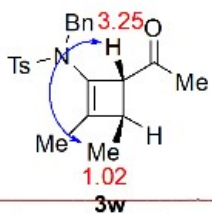
S111

Title WJ3-80
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



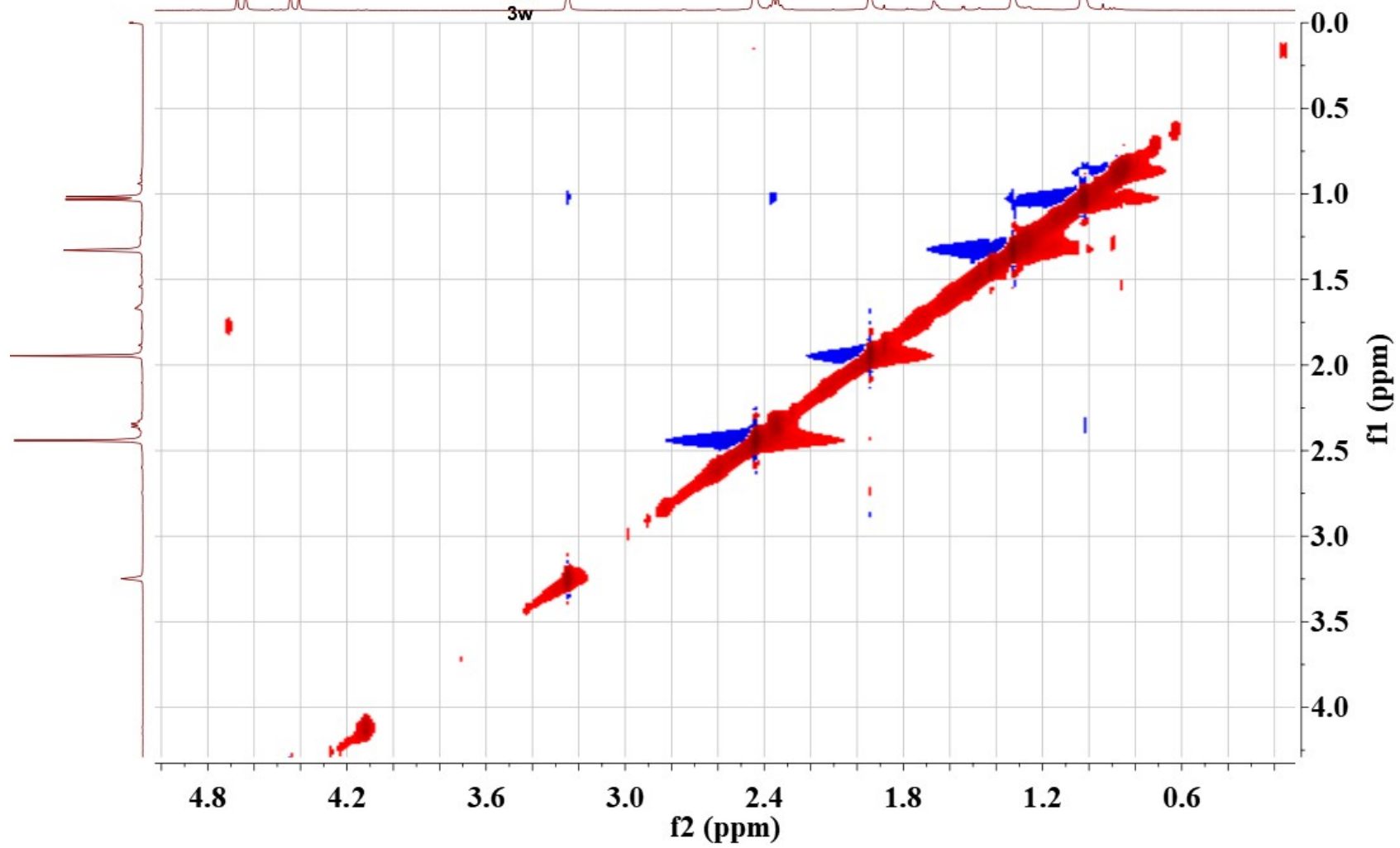
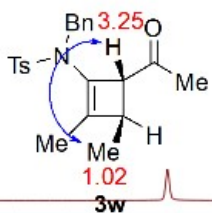
S112

Title WJ4-25-2
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



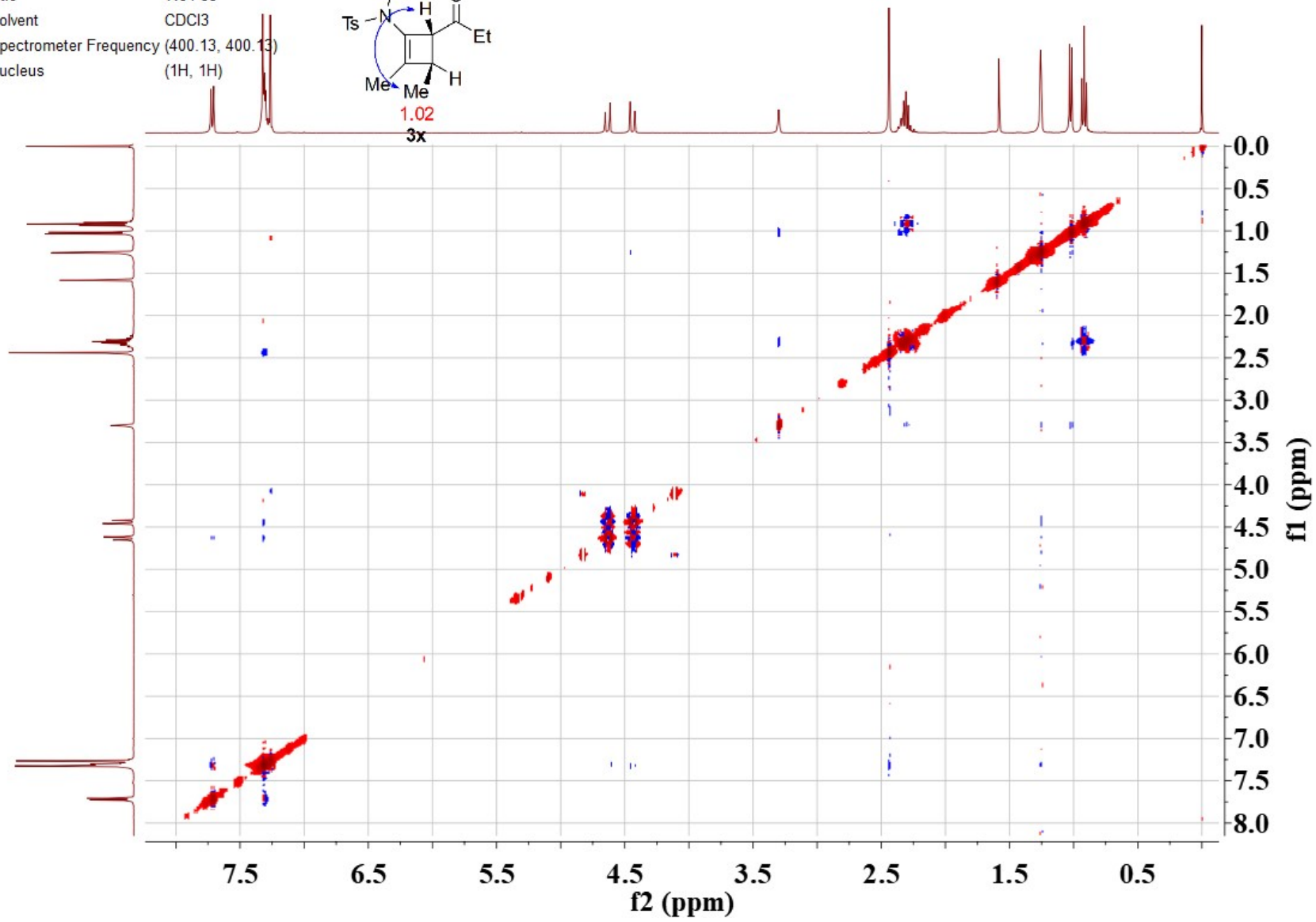
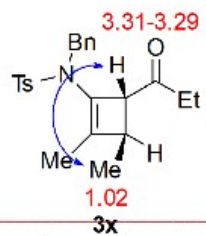
S113

Title WJ4-25-2
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



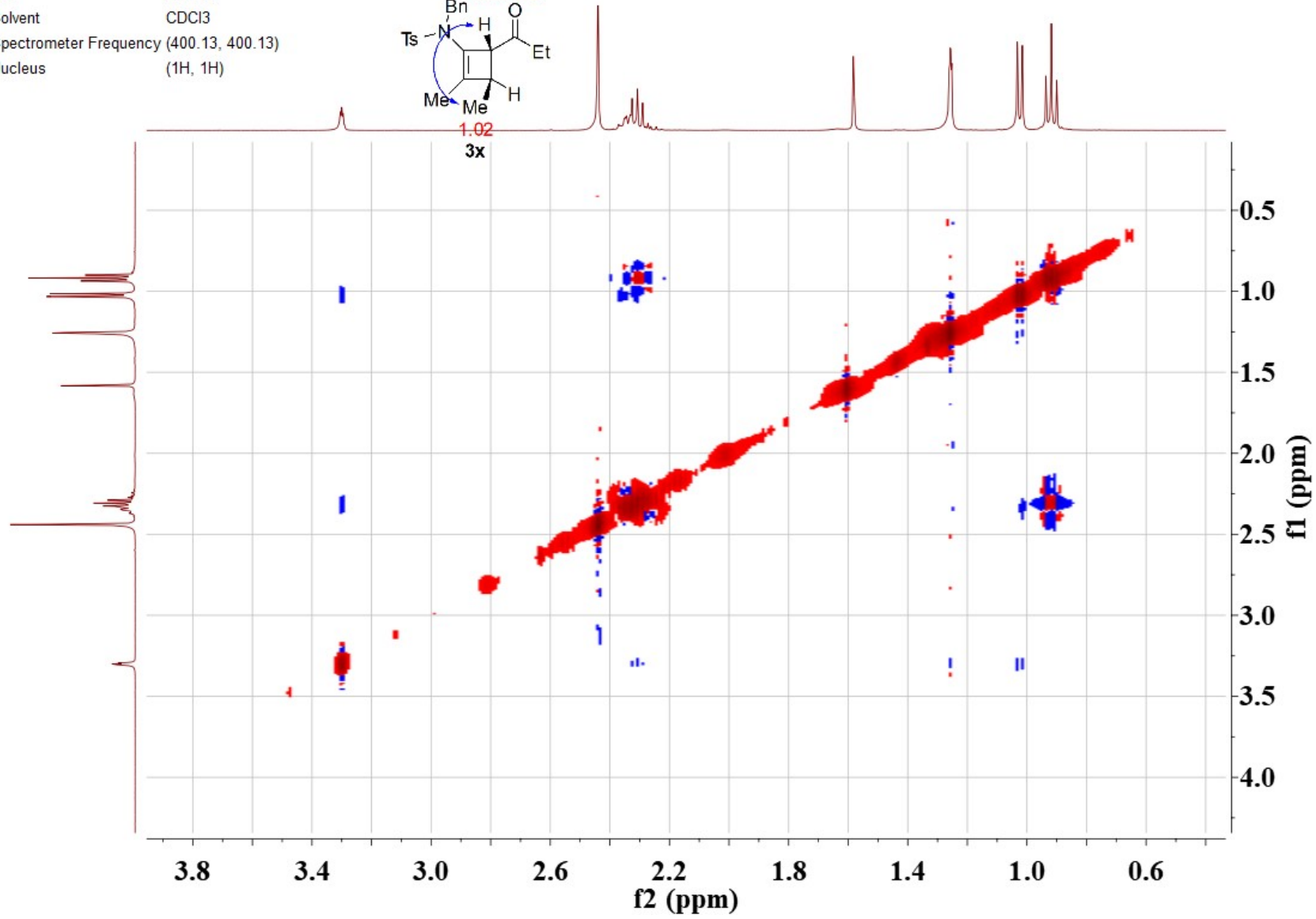
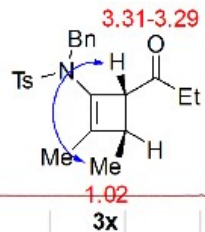
S114

Title WJ4-35
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



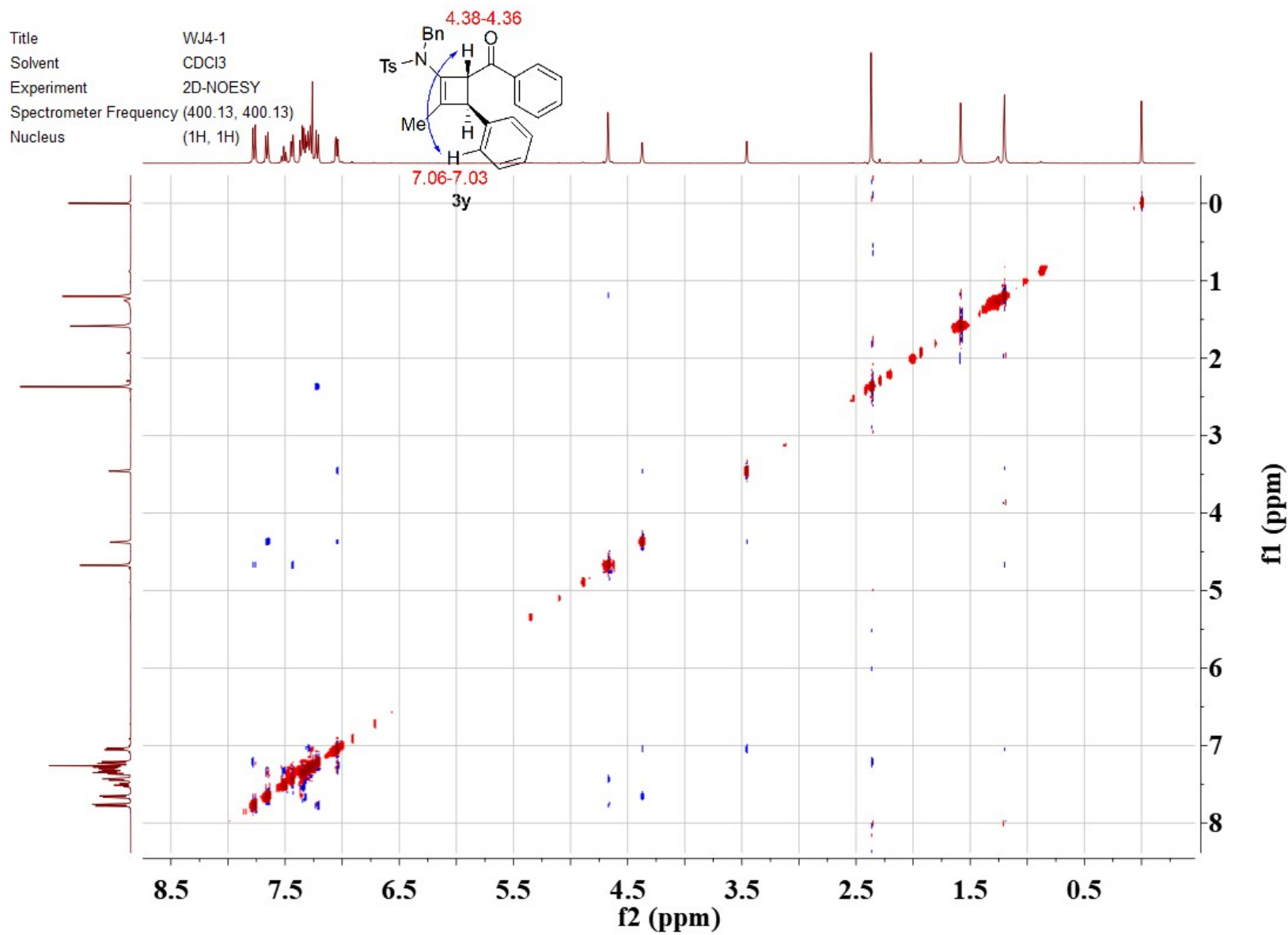
S115

Title WJ4-35
Solvent CDCl3
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)

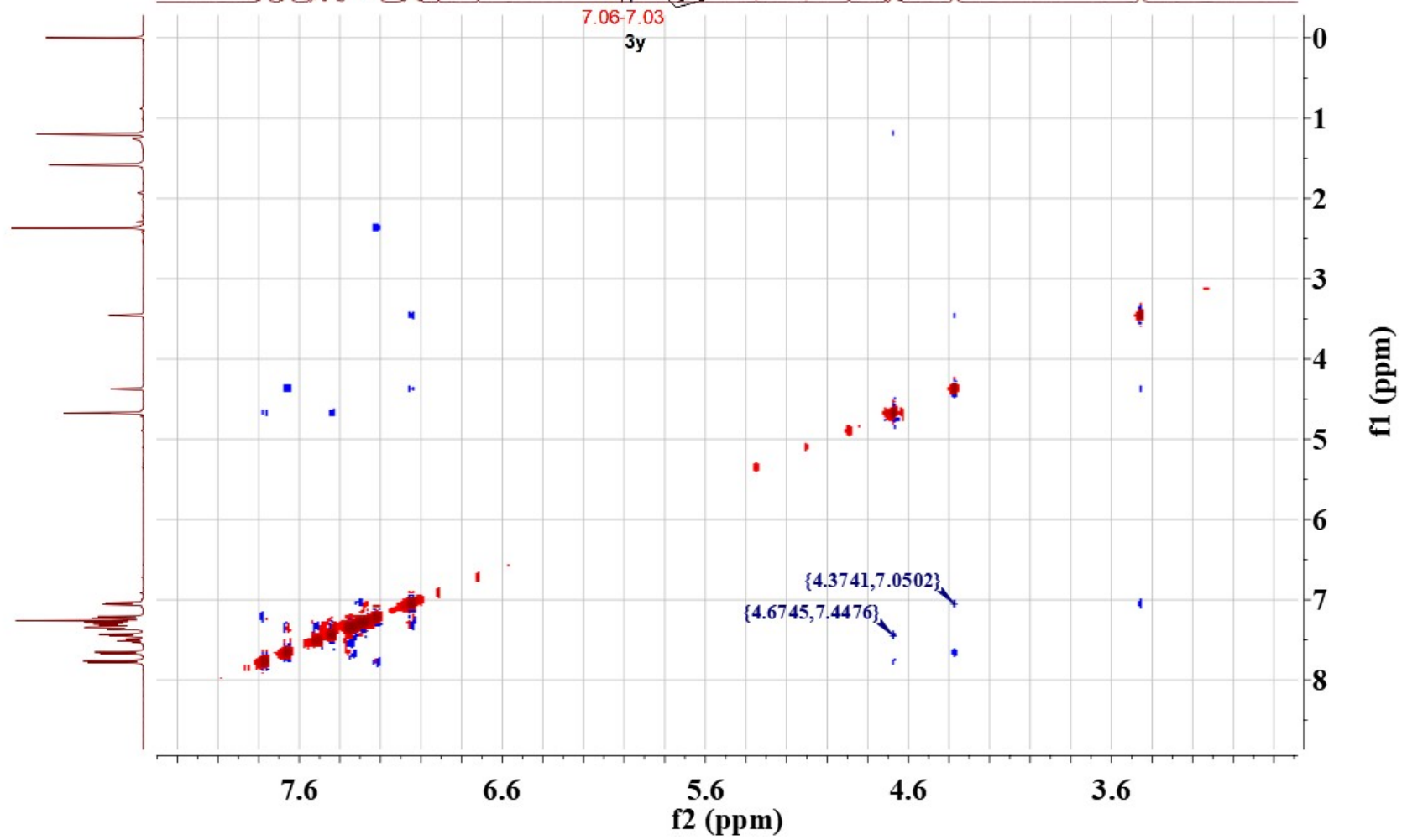
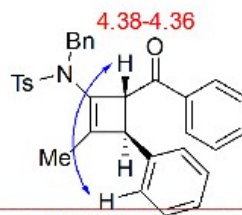


S116

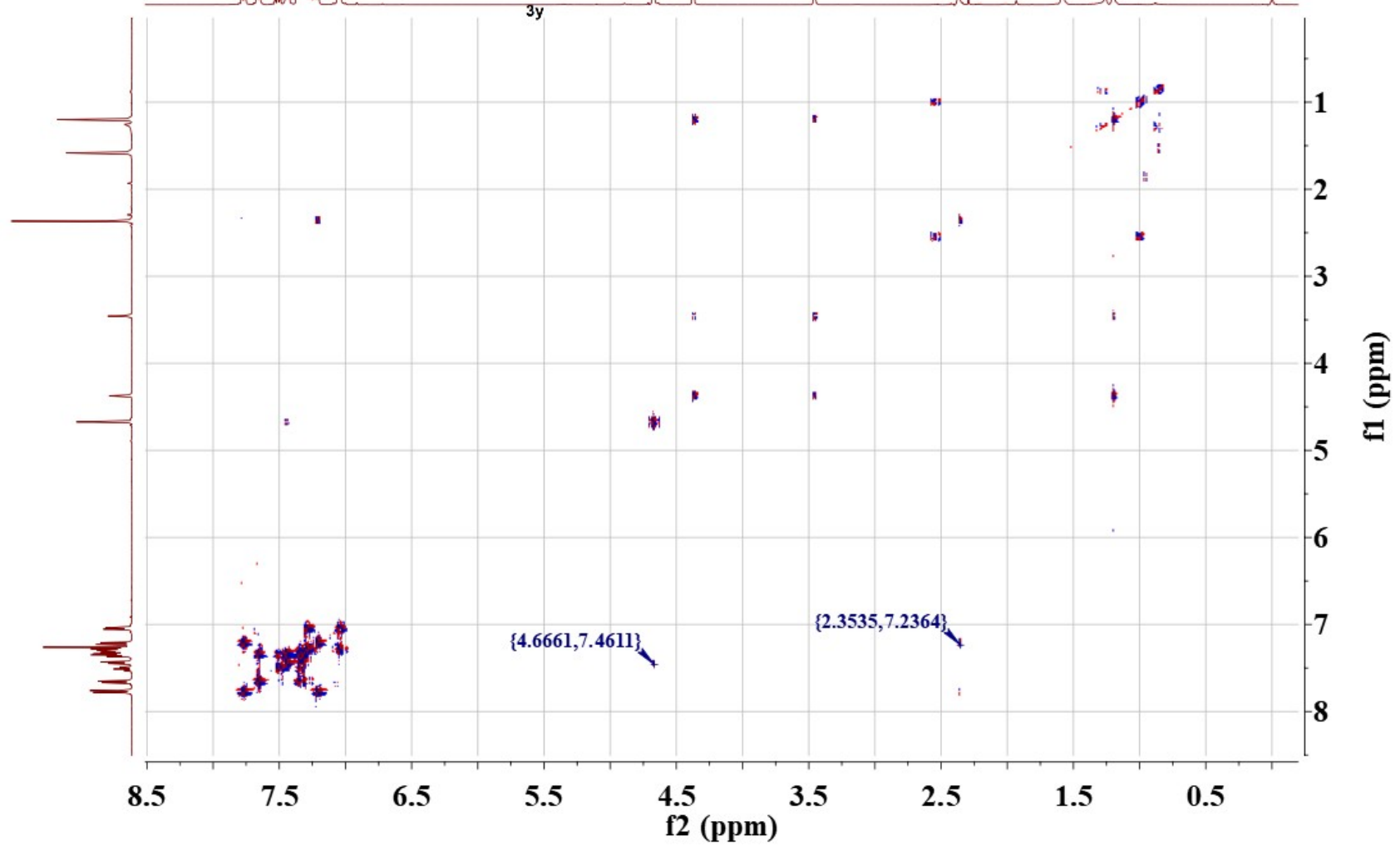
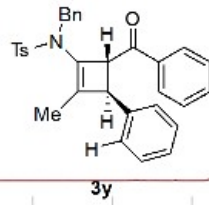
NOESY, COSY, HSQC, and HMBC Spectra of Cyclobutenamides 3y and 3z.



Title WJ4-1
Solvent CDCl3
Experiment 2D-NOESY
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)

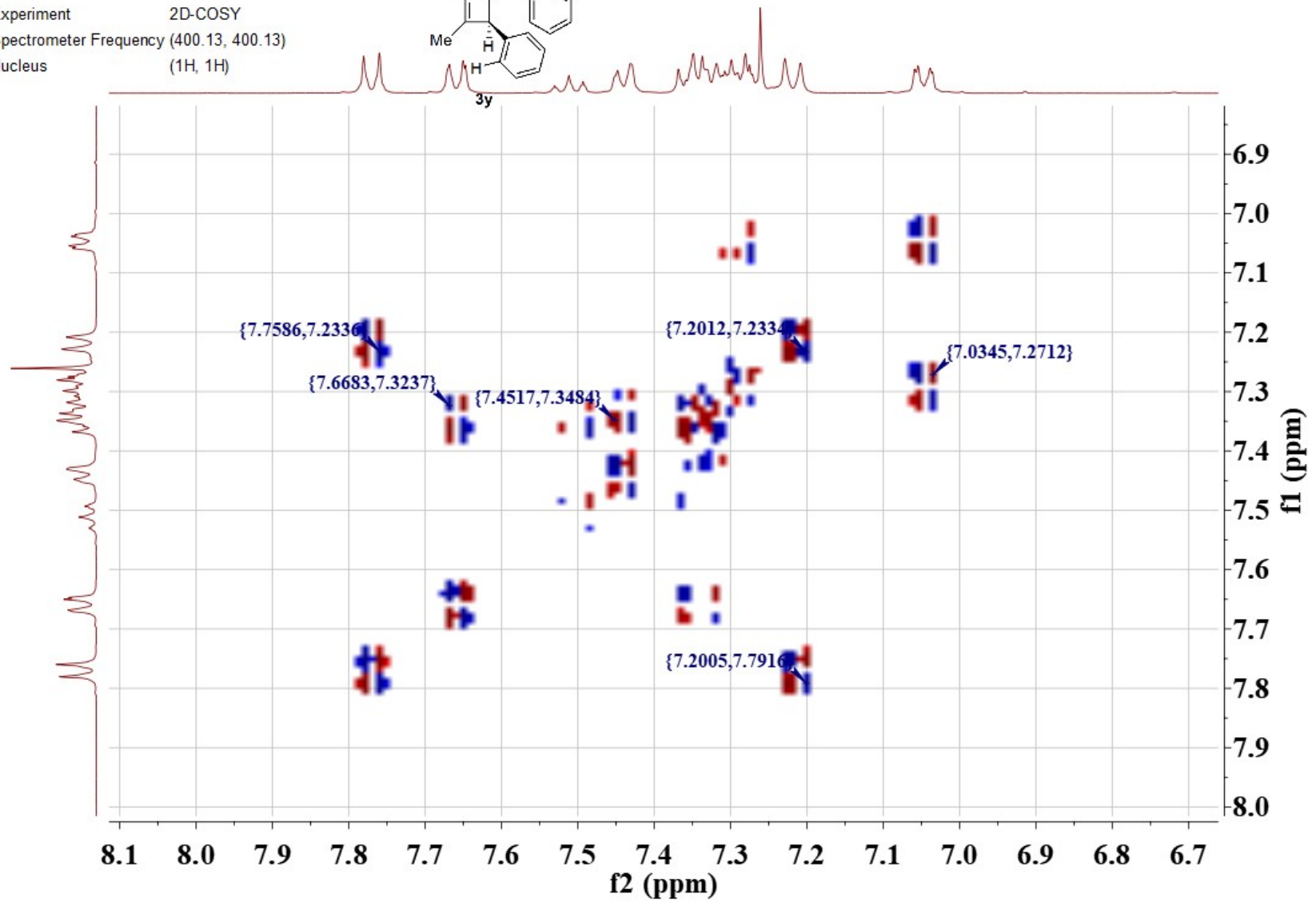
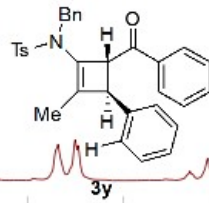


Title WJ4-1
Solvent CDCl3
Experiment 2D-COSY
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)

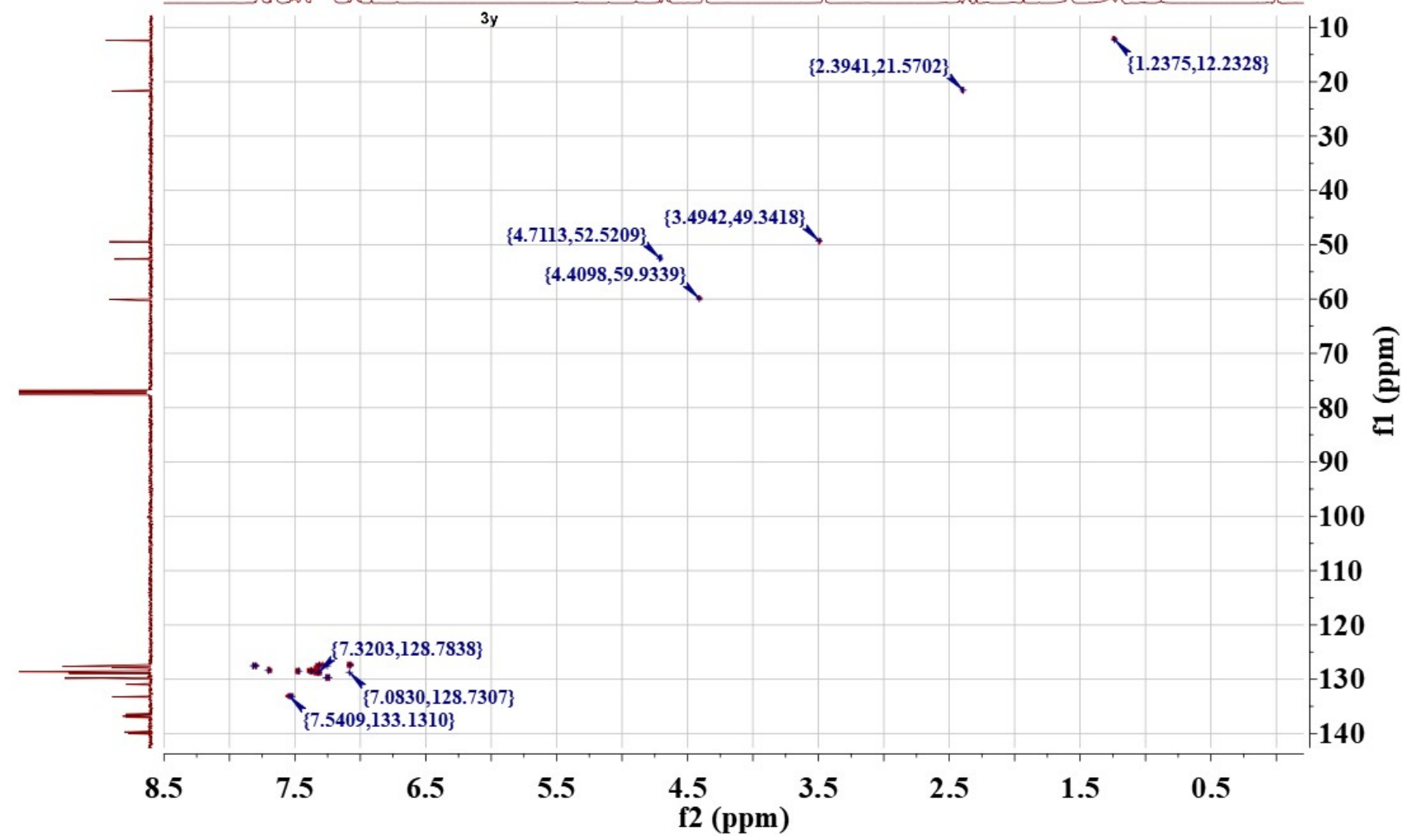
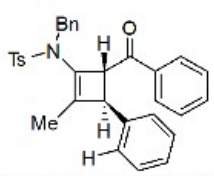


S119

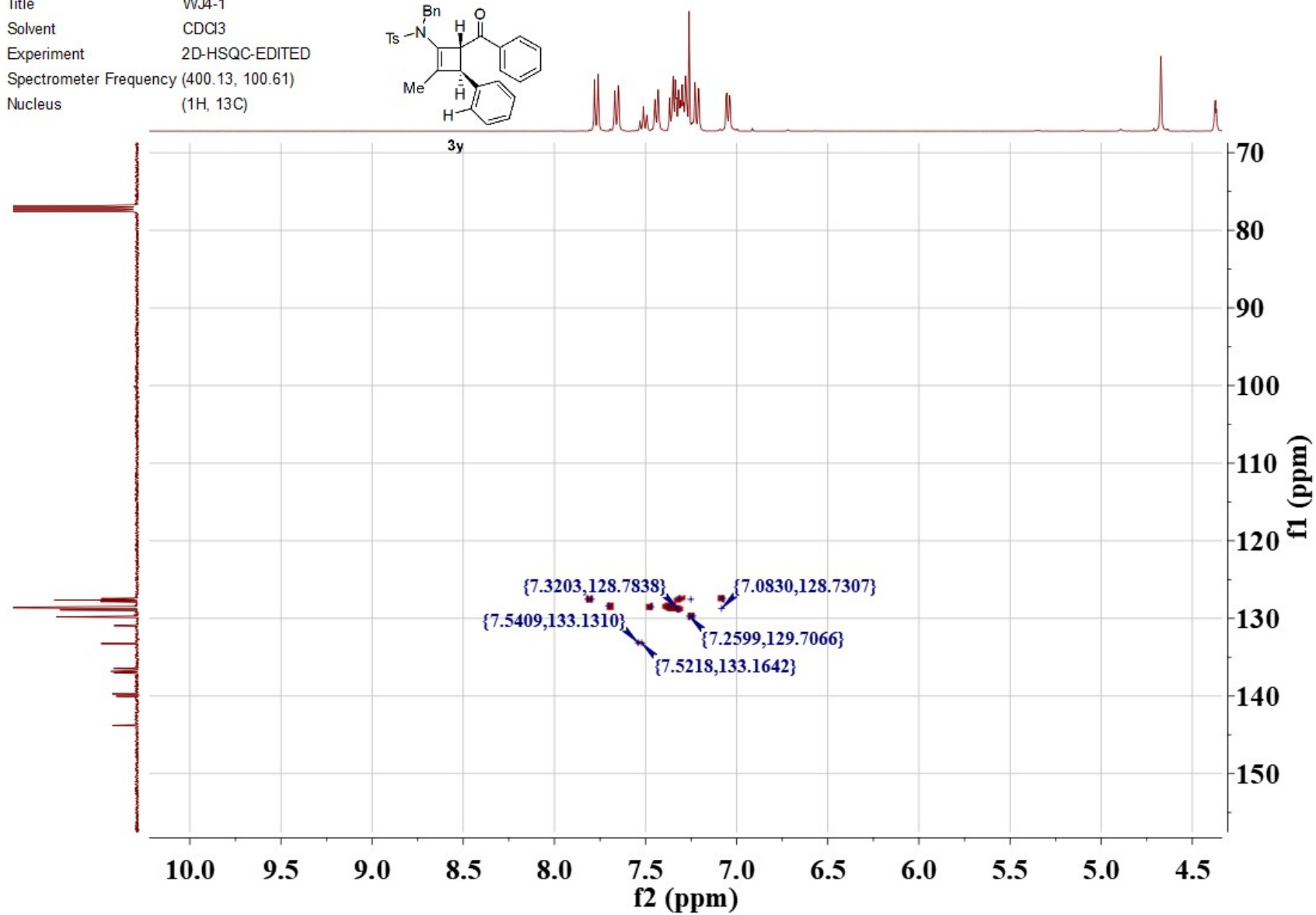
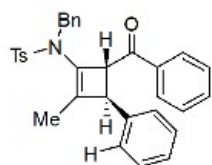
Title WJ4-1
Solvent CDCl3
Experiment 2D-COSY
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



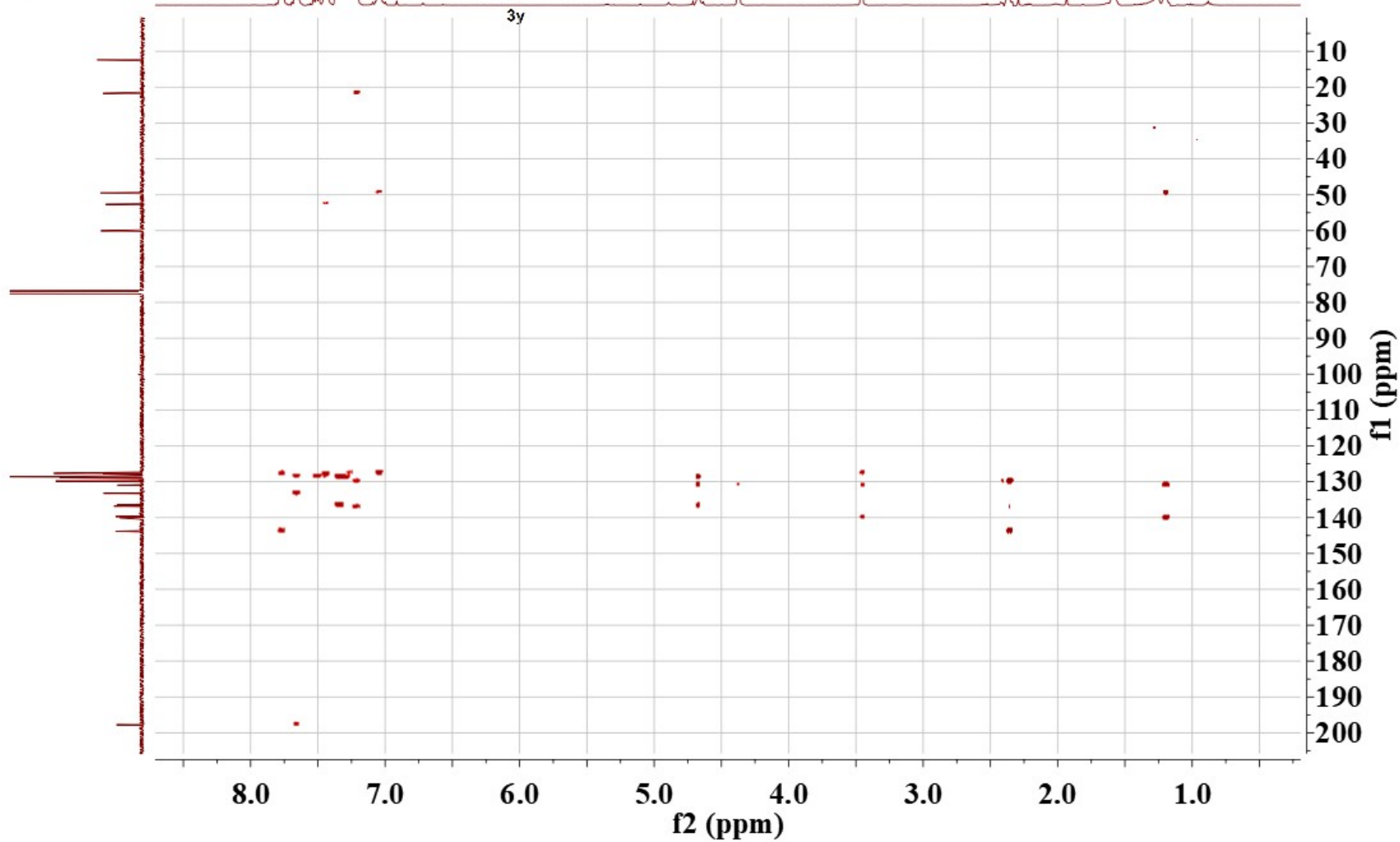
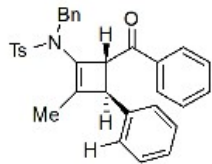
Title WJ4-1
Solvent CDCl3
Experiment 2D-HSQC-EDITED
Spectrometer Frequency (400.13, 100.61)
Nucleus (1H, 13C)



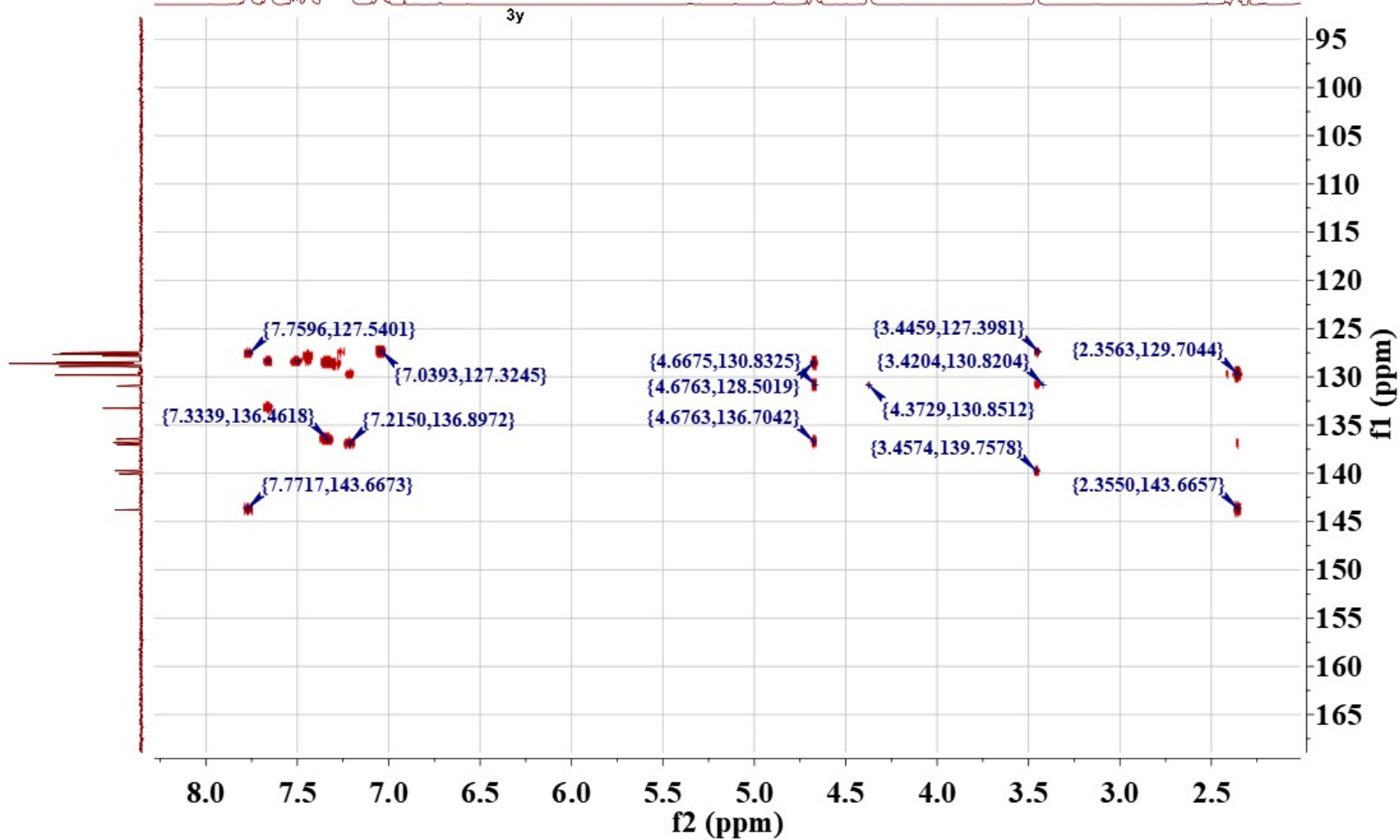
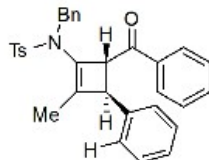
Title WJ4-1
Solvent CDCl3
Experiment 2D-HSQC-EDITED
Spectrometer Frequency (400.13, 100.61)
Nucleus (1H, 13C)



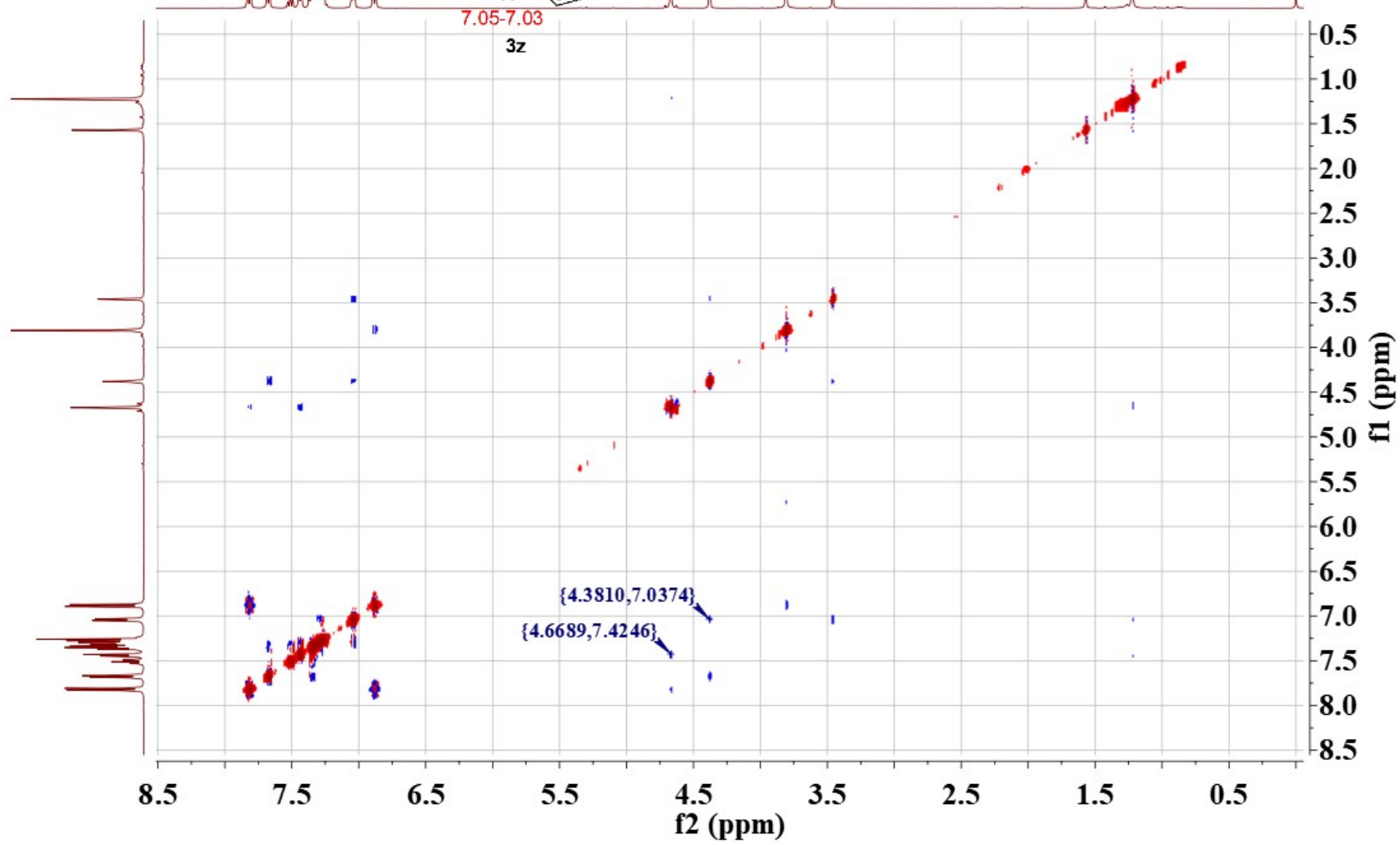
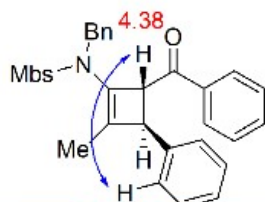
Title WJ4-1
Solvent CDCl3
Experiment 2D-HMBC
Spectrometer Frequency (400.13, 100.61)
Nucleus (1H, 13C)



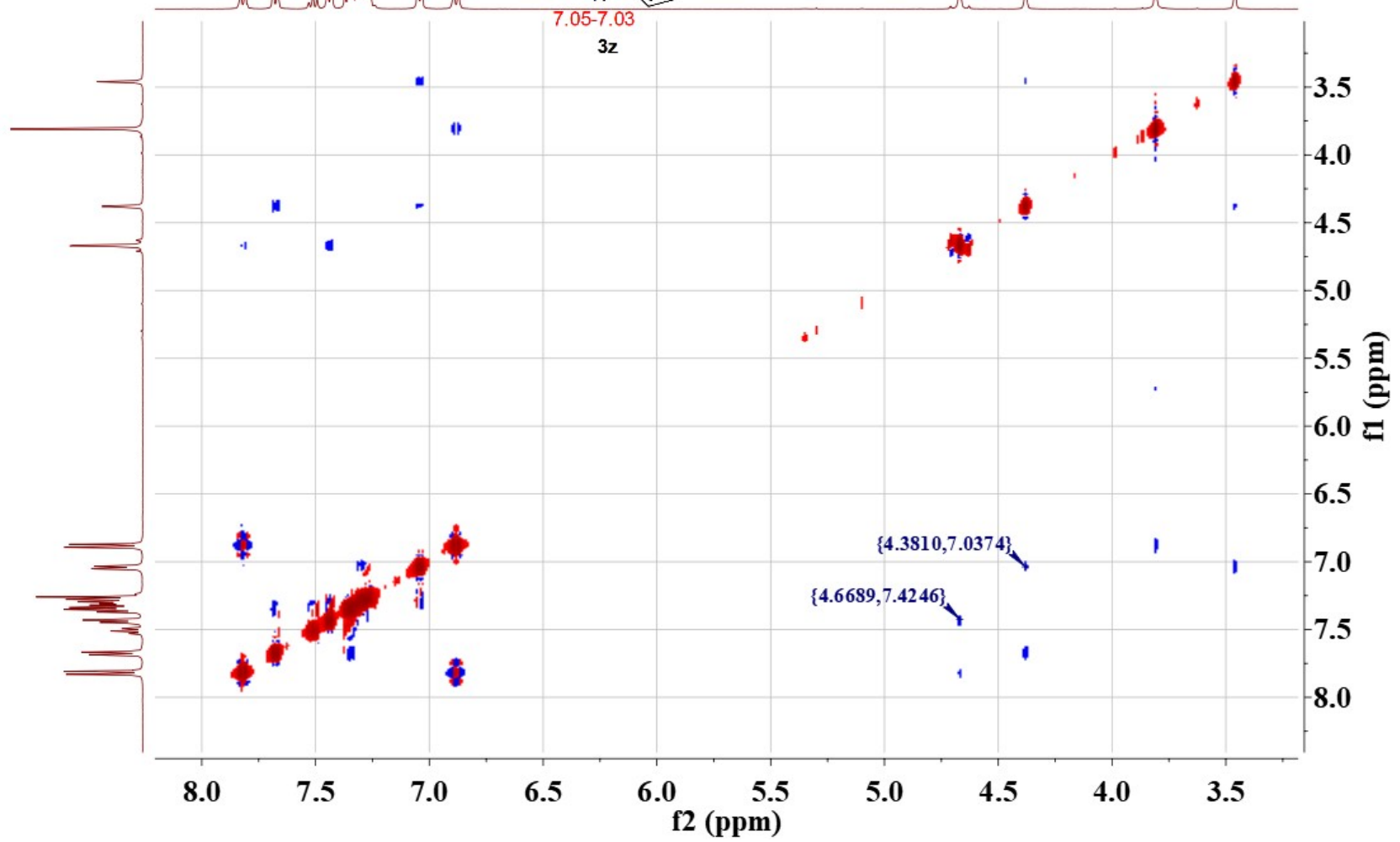
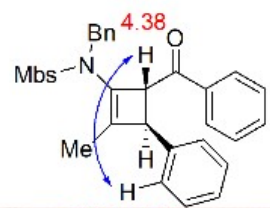
Title WJ4-1
Solvent CDCl3
Experiment 2D-HMBC
Spectrometer Frequency (400.13 | 100.61)
Nucleus (1H, 13C)



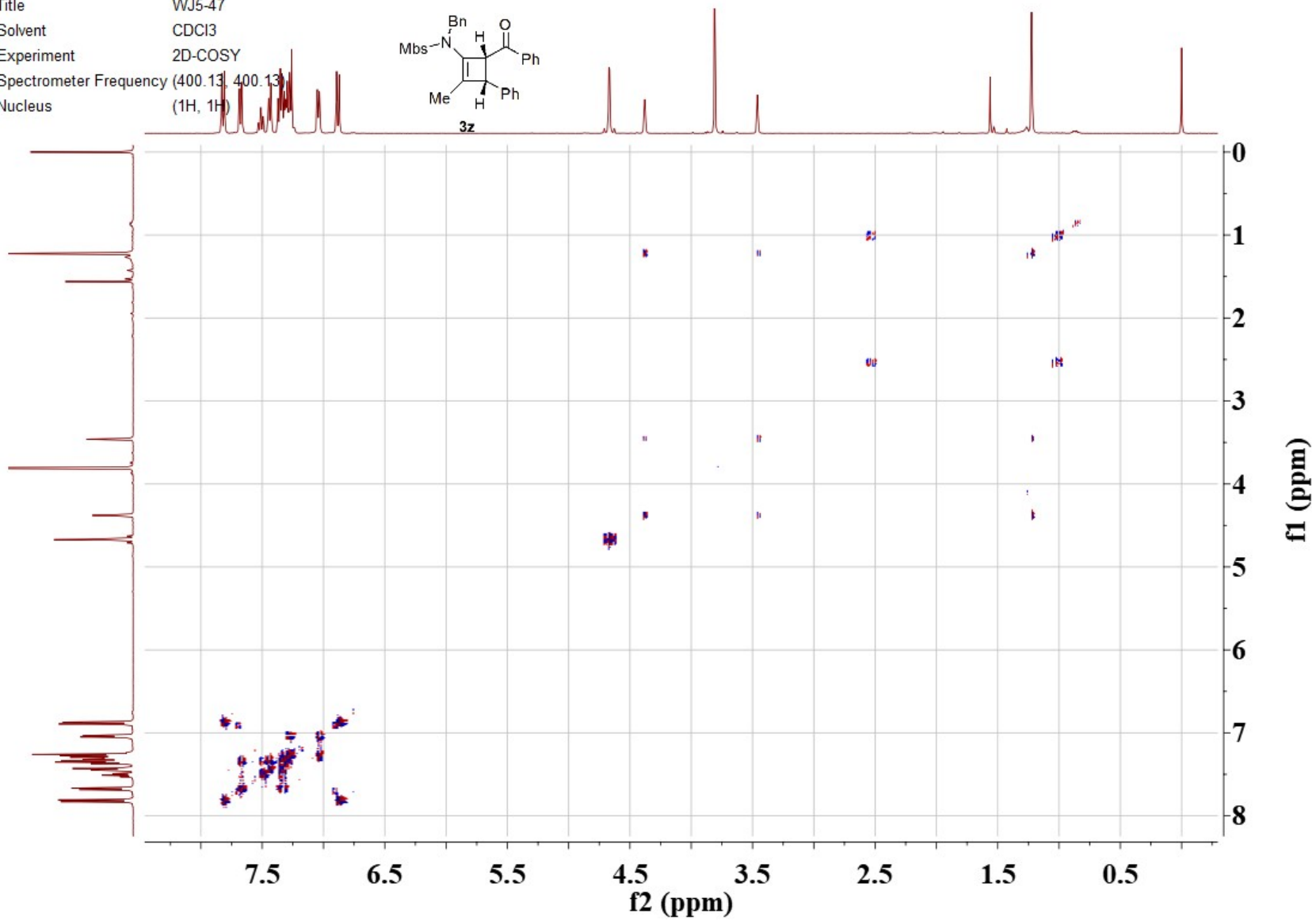
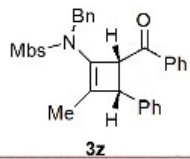
Title WJ5-47
Solvent CDCl3
Experiment 2D-NOESY
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



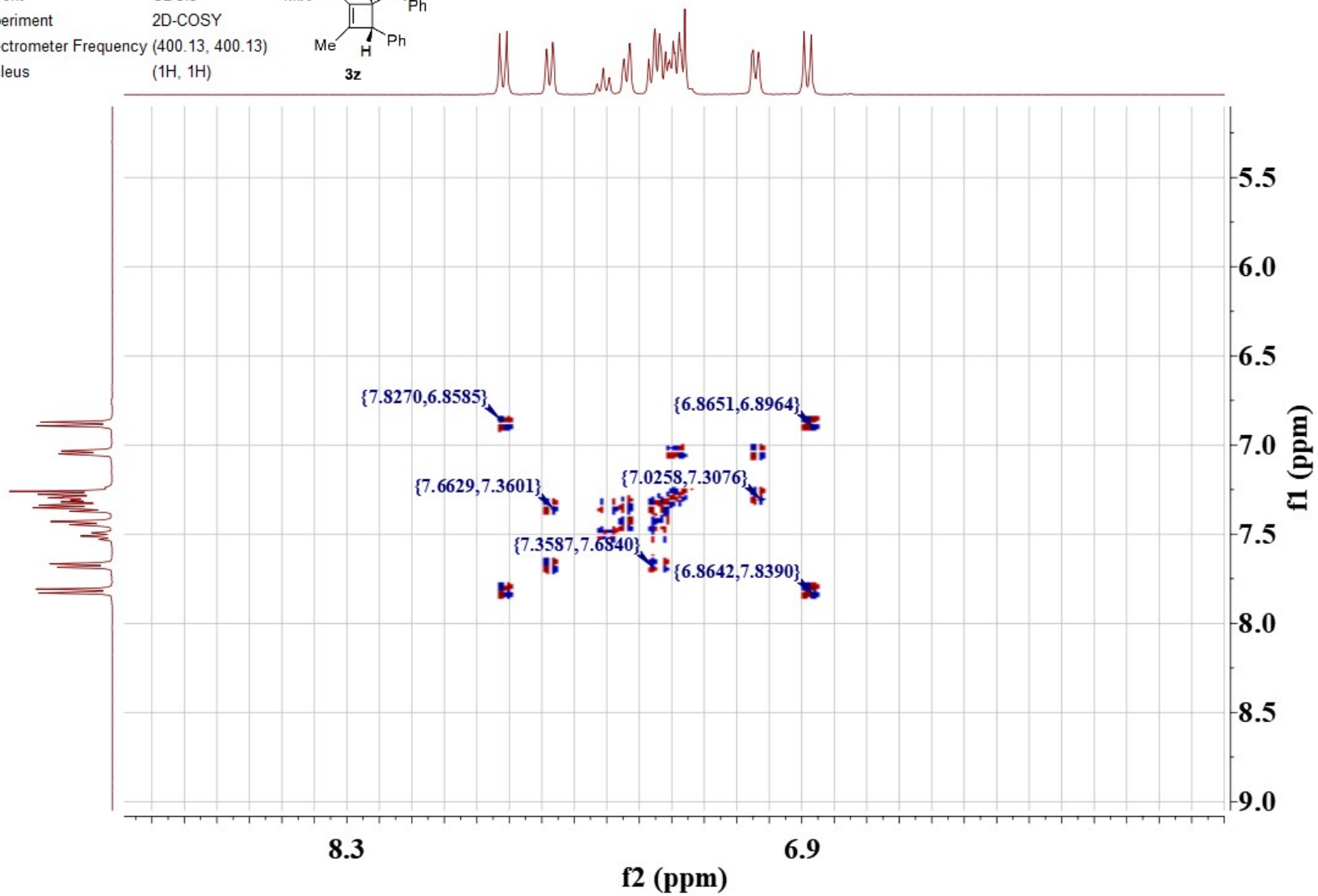
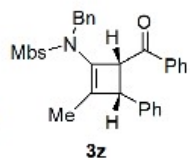
Title WJ5-47
Solvent CDCl3
Experiment 2D-NOESY
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



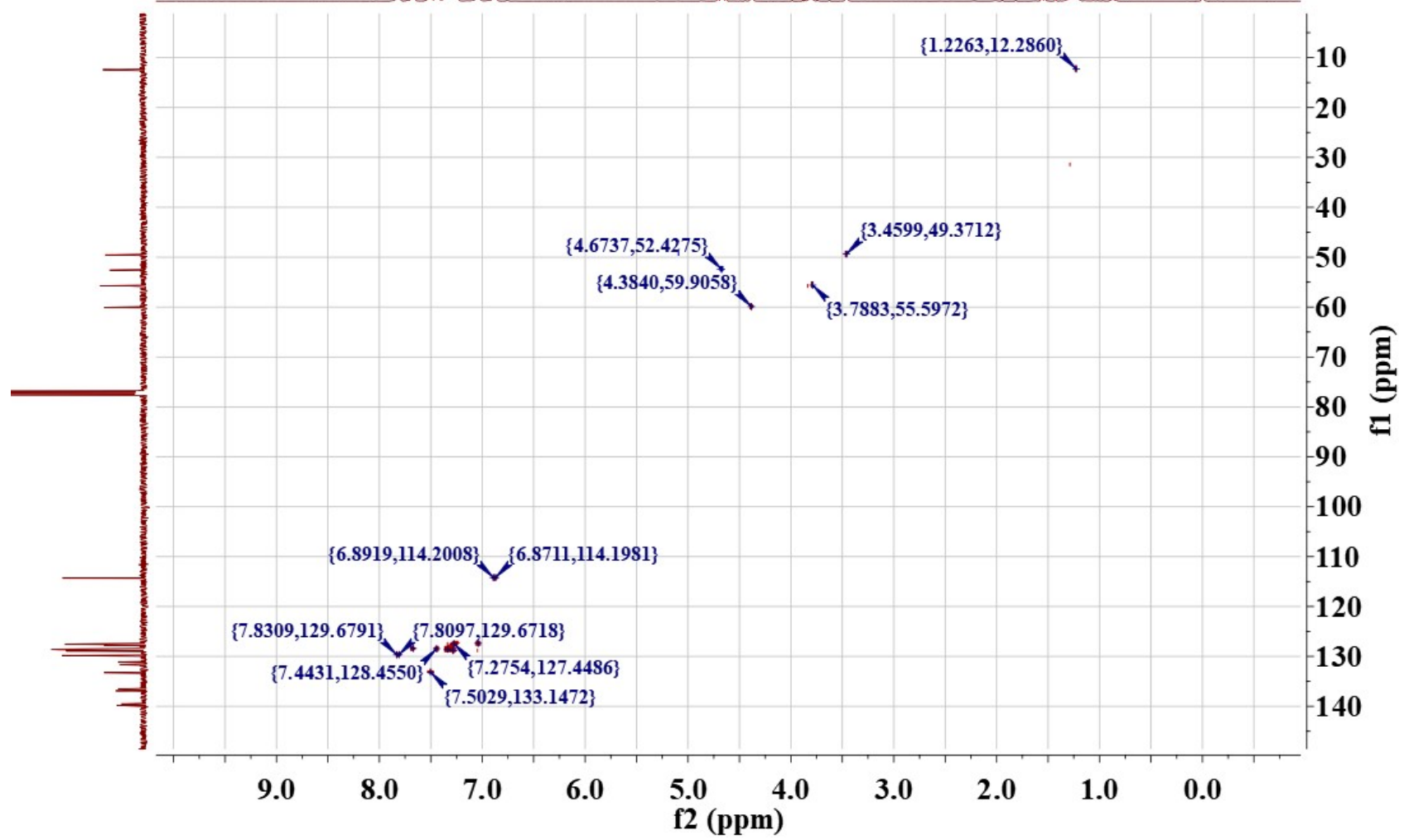
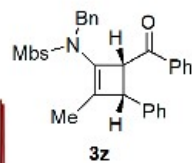
Title WJ5-47
Solvent CDCl3
Experiment 2D-COSY
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



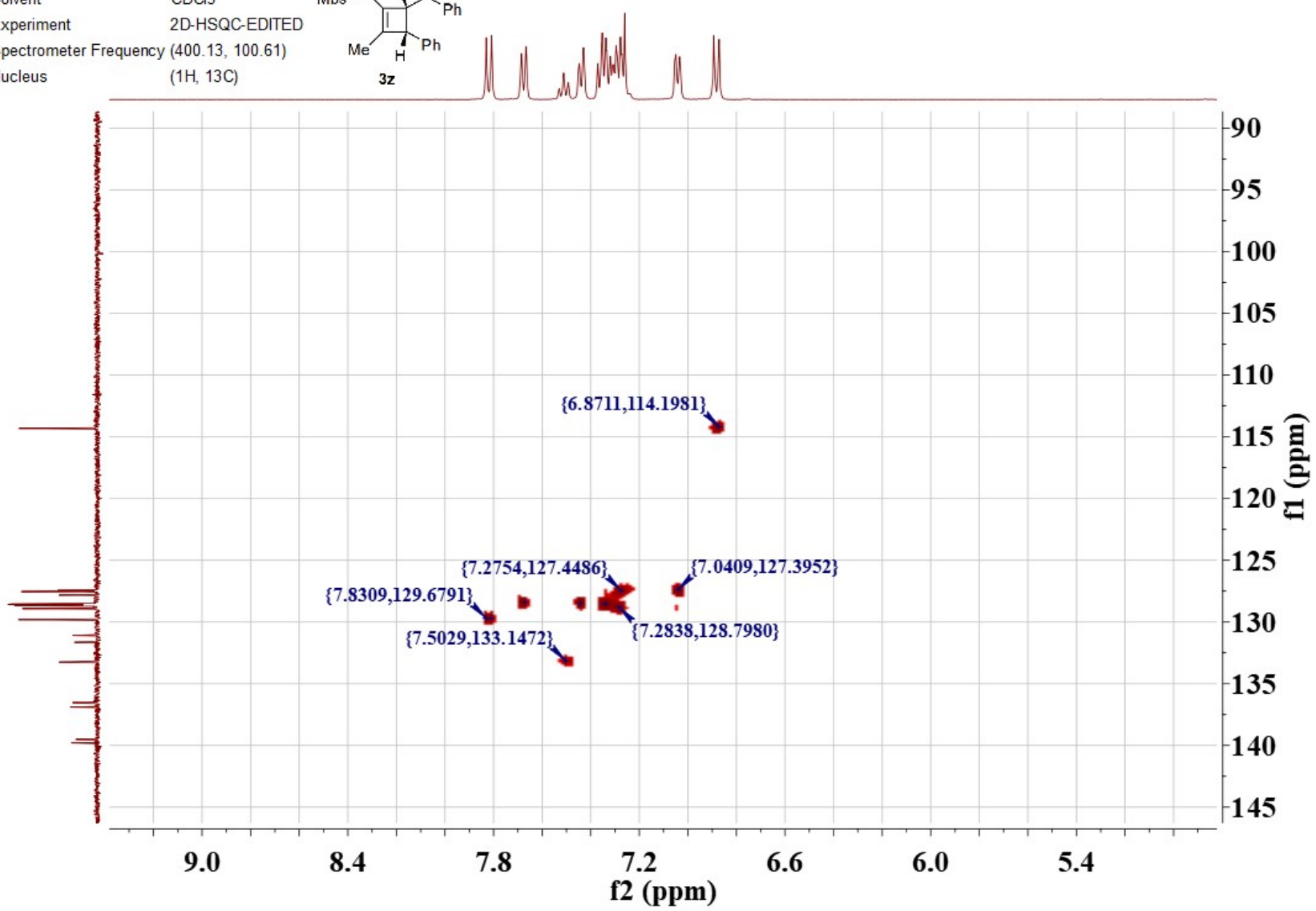
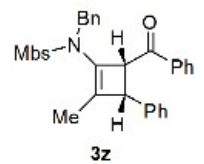
Title WJ5-47
Solvent CDCl3
Experiment 2D-COSY
Spectrometer Frequency (400.13, 400.13)
Nucleus (1H, 1H)



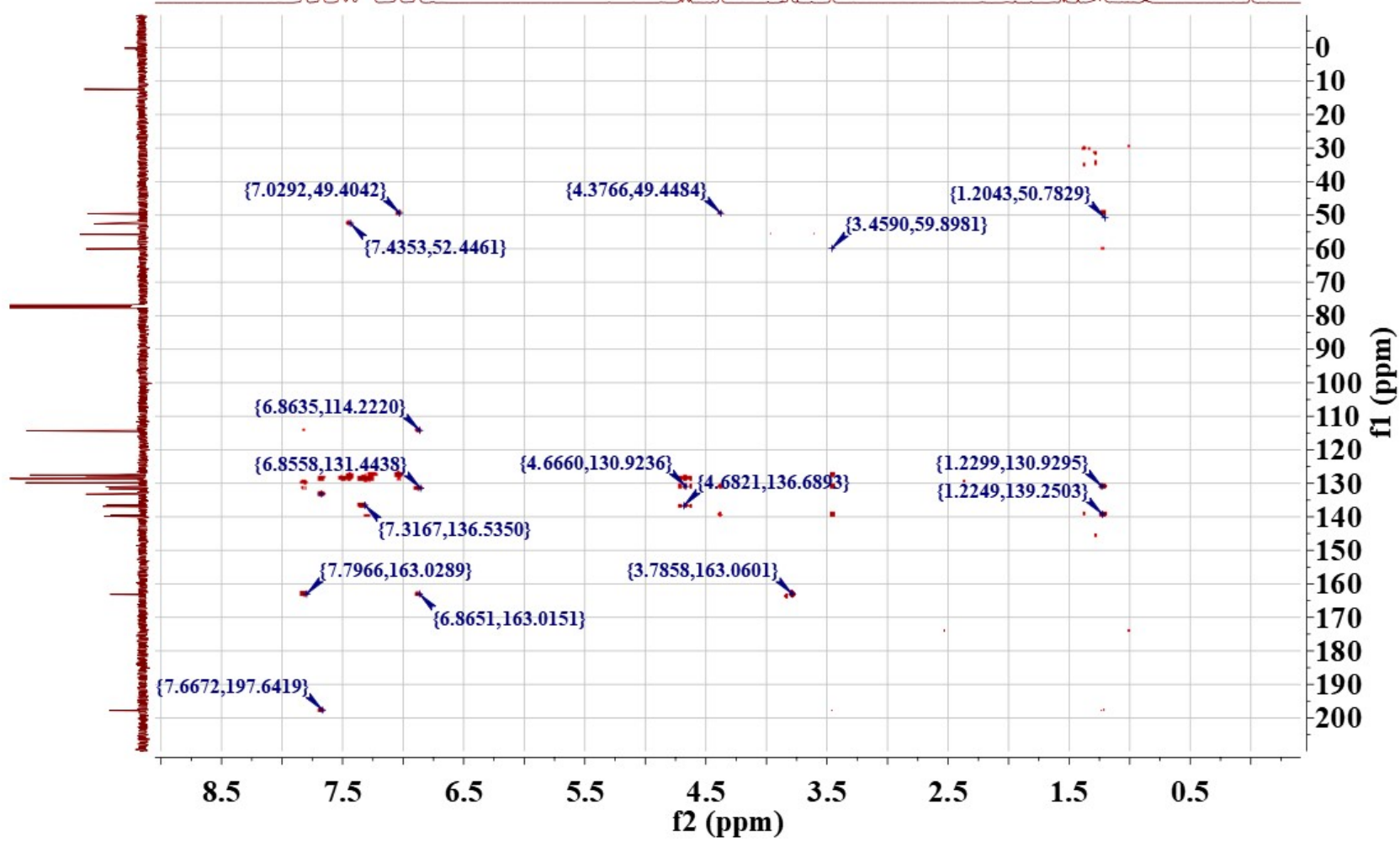
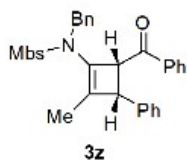
Title WJ5-47
Solvent CDCl3
Experiment 2D-HSQC-EDITED
Spectrometer Frequency (400.13, 100.61)
Nucleus (1H, 13C)



Title WJ5-47
Solvent CDCl3
Experiment 2D-HSQC-EDITED
Spectrometer Frequency (400.13, 100.61)
Nucleus (1H, 13C)



Title WJ5-47
Solvent CDCl3
Experiment 2D-HMBC
Spectrometer Frequency (400.13, 100.61)
Nucleus (1H, 13C)



Title WJ5-47
Solvent CDCl3
Experiment 2D-HMBC
Spectrometer Frequency (400.13, 100.61)
Nucleus (1H, 13C)

