

Supporting Information

Synthesis of allenylzinc reagents by 1,2-rearrangement of alkynyl(disilyl)zincates derived from acetylenic epoxides and acetylenic aziridines

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NMR Spectra of **4**, **7a–c**, **12a**, **13a–b** and **14**.

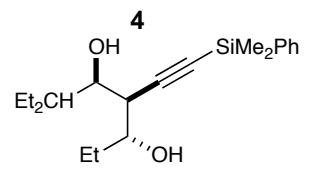
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7.3795
7.3724
7.3697
7.3661
7.2607

3.9862
3.9784
3.9645
3.9566
3.8575
3.8517
3.8442
3.8378
3.8312
3.8237
3.8182

2.7550
2.7494
2.7335
2.7278

1.6993
1.6564
1.6515
1.6381
1.6341
1.6257
1.6221
1.6169
1.6129
1.6035
1.5911
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0.9841
0.9547
0.9493
0.9361
0.9306
0.9180
0.9122

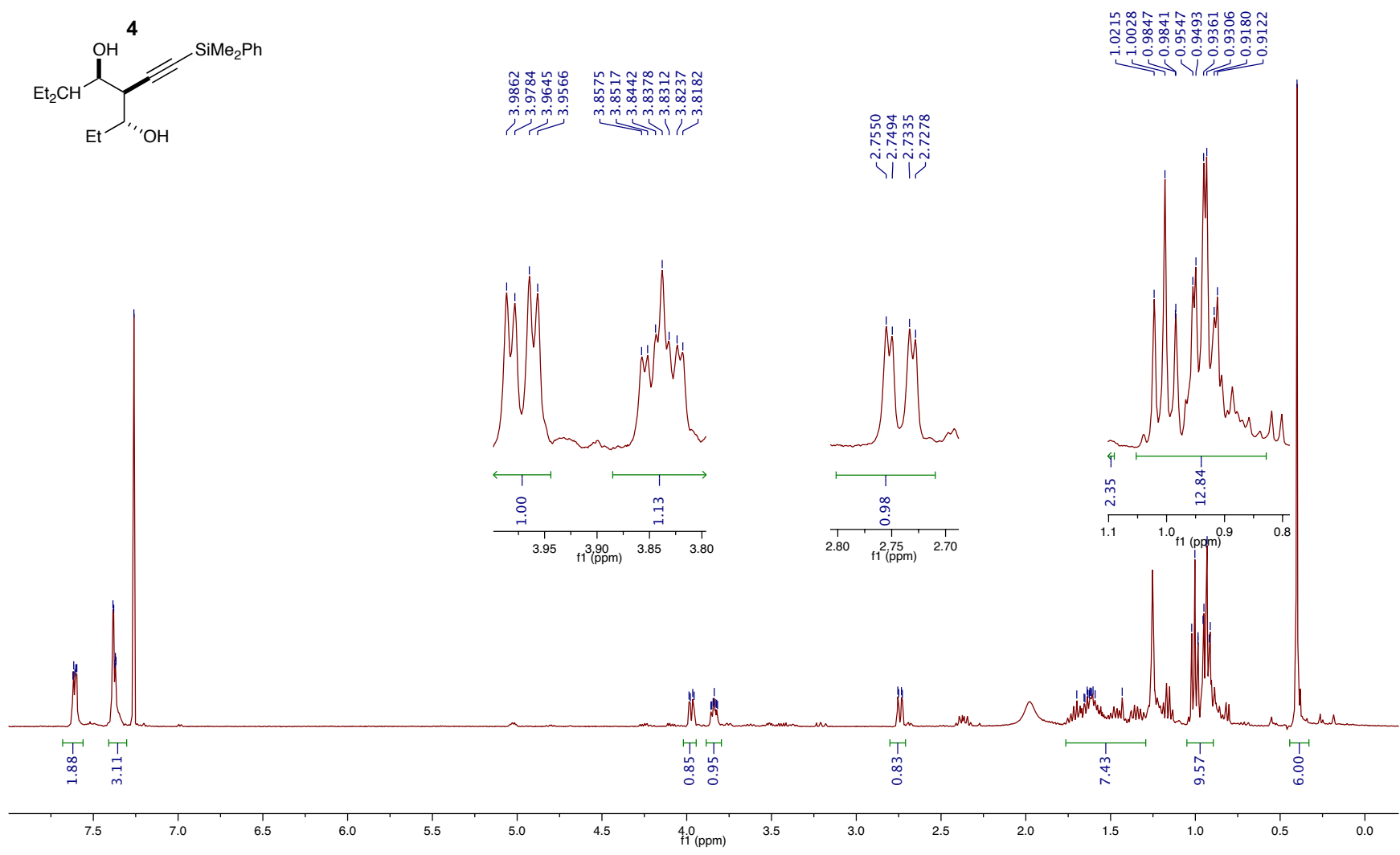
¹H NMR (400 MHz, CDCl₃)



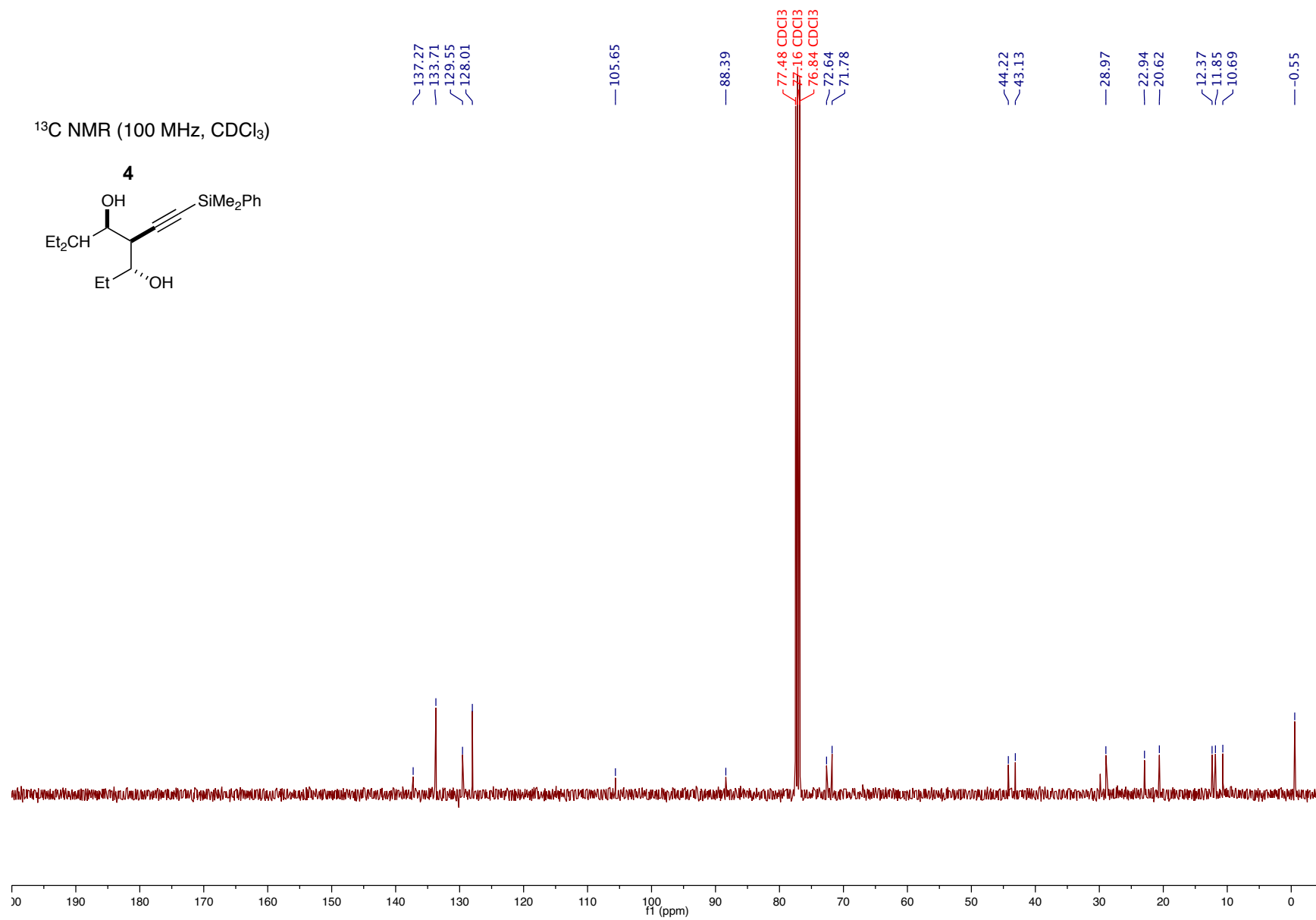
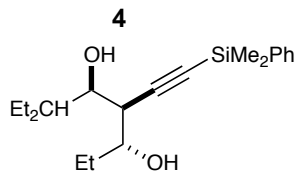
3.9862
3.9784
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3.9566
3.8575
3.8517
3.8442
3.8378
3.8312
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3.8182

2.7550
2.7494
2.7335
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1.0215
1.0028
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0.9547
0.9493
0.9361
0.9306
0.9180
0.9122

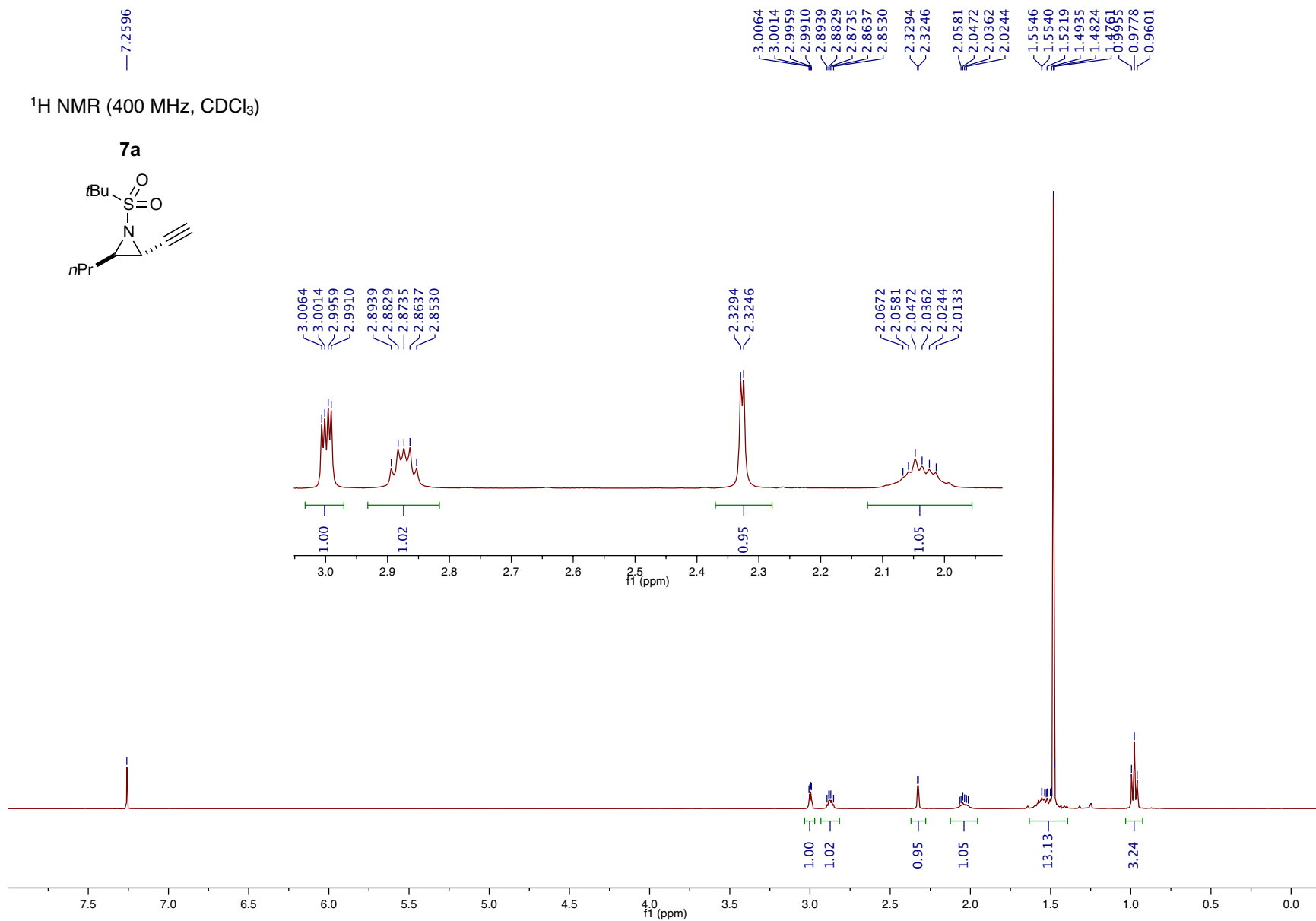
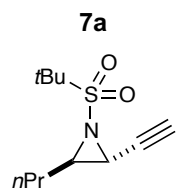


^{13}C NMR (100 MHz, CDCl_3)



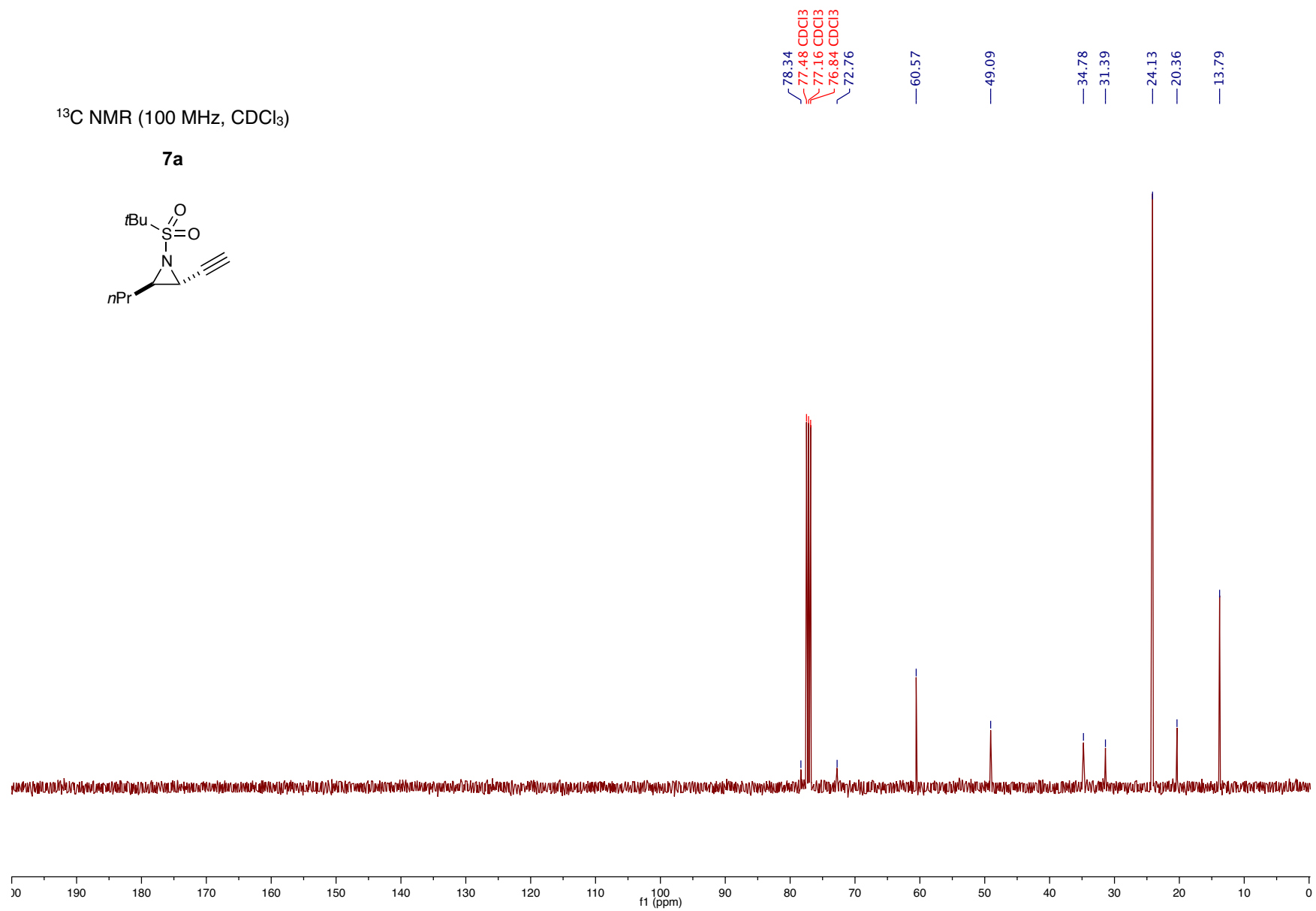
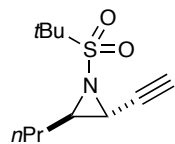
7.2596

¹H NMR (400 MHz, CDCl₃)



^{13}C NMR (100 MHz, CDCl_3)

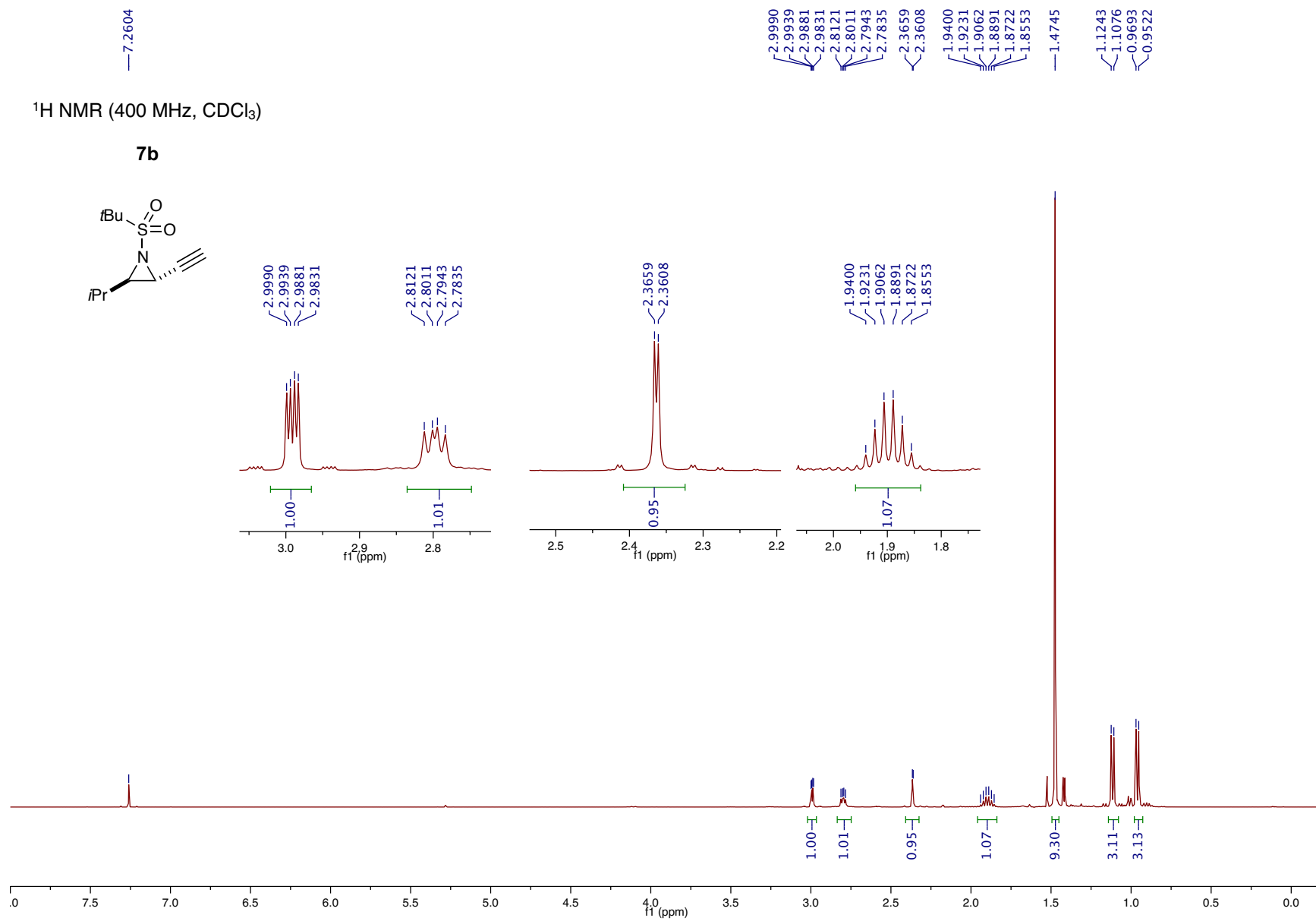
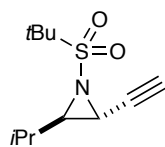
7a



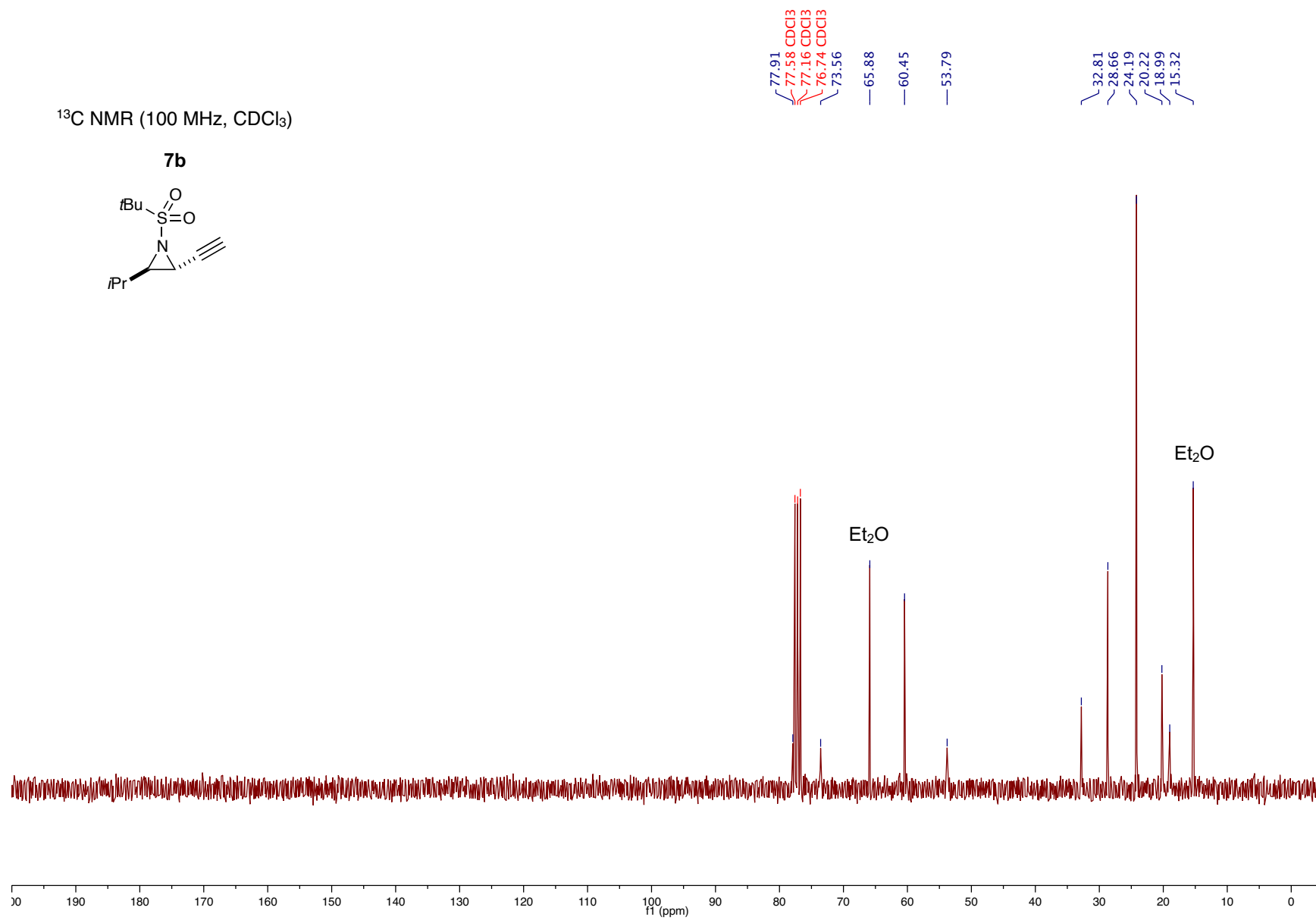
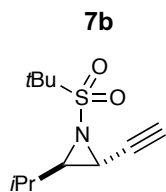
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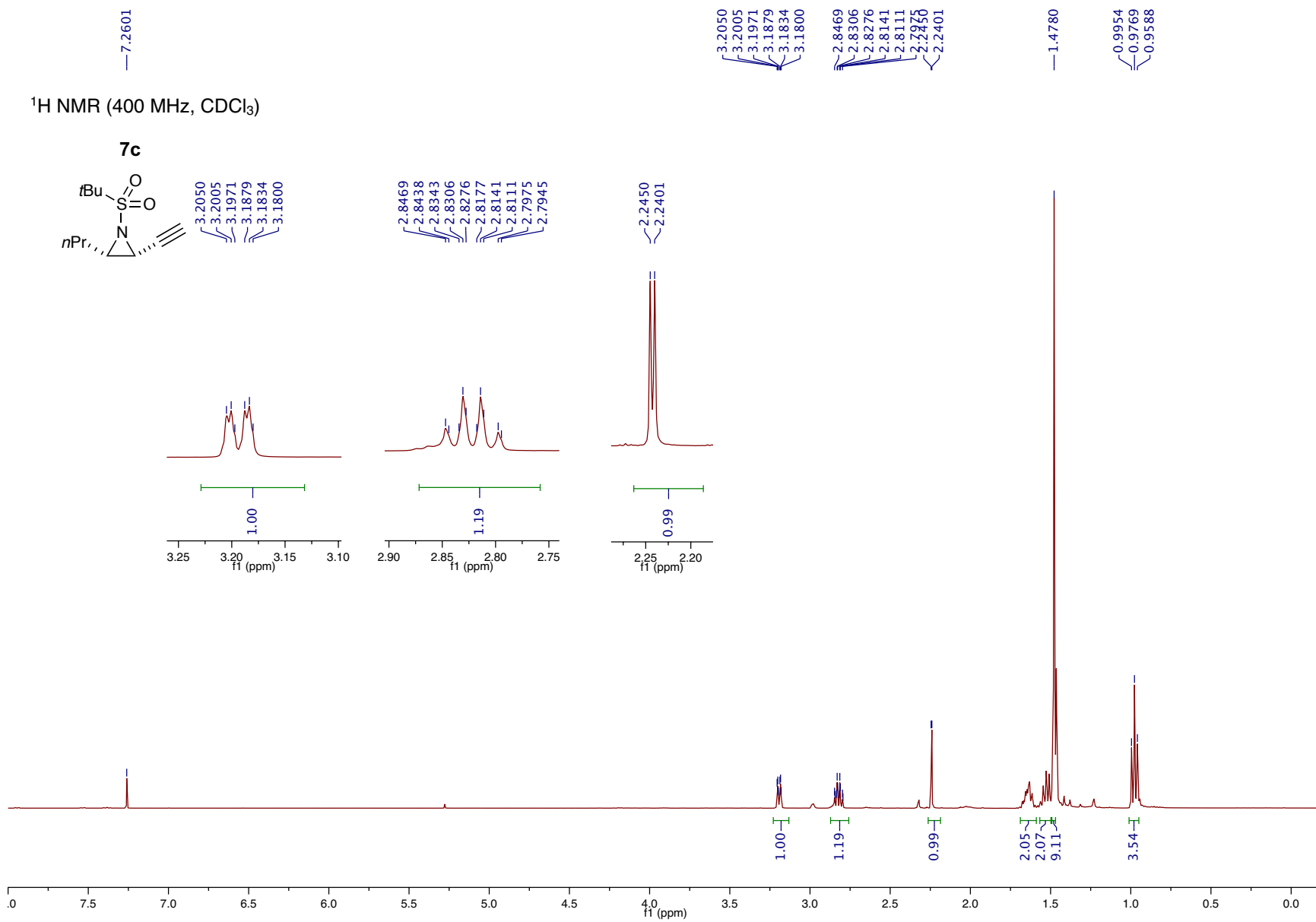
¹H NMR (400 MHz, CDCl₃)

7b



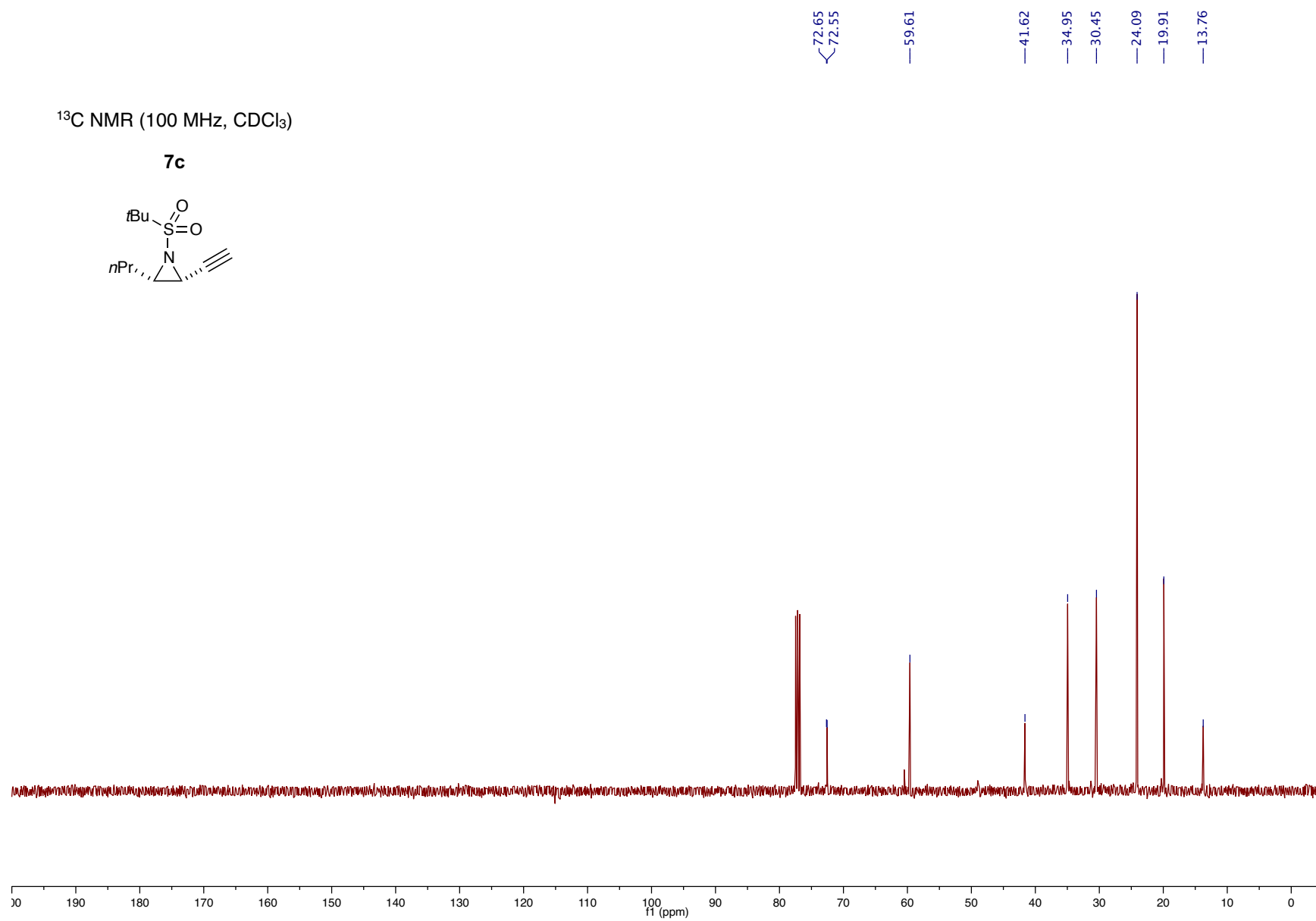
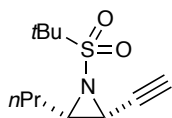
^{13}C NMR (100 MHz, CDCl_3)





^{13}C NMR (100 MHz, CDCl_3)

7c



7.6245
7.6228
7.6156
7.6132
7.6063
7.5998
7.3730
7.3699
7.3682
7.3605

3.5826
3.5624
3.4254
3.4117
3.4061
3.3985
3.3924
3.3854
3.3790
3.3726
3.3650
3.3595
3.3457

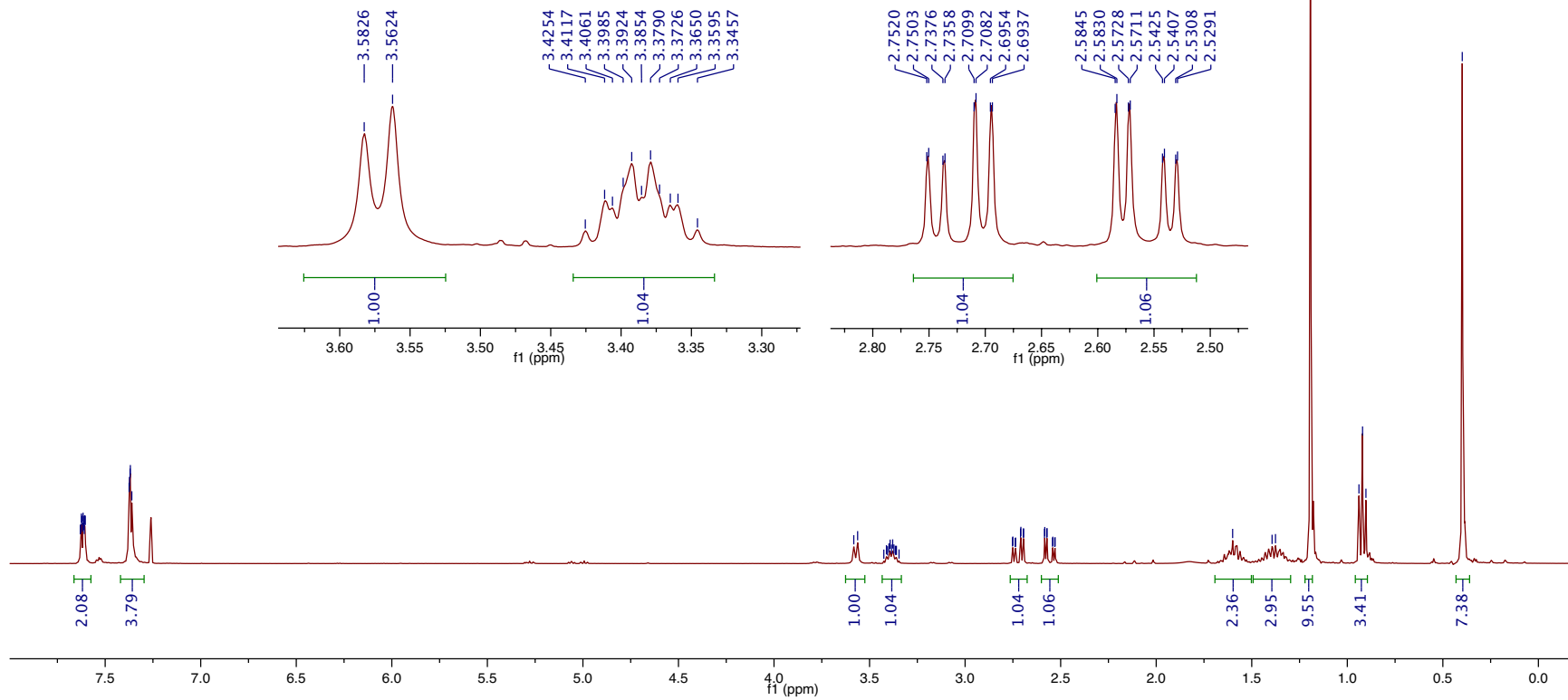
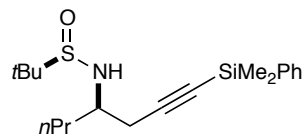
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2.7503
2.7358
2.7099
2.7082
2.6954
2.6937
2.5845
2.5830
2.5728
2.5711
2.5425
2.5407
2.5400

1.5660
1.3936
1.3758
1.1937
1.1919
0.9390
0.9201
0.9025

0.3984

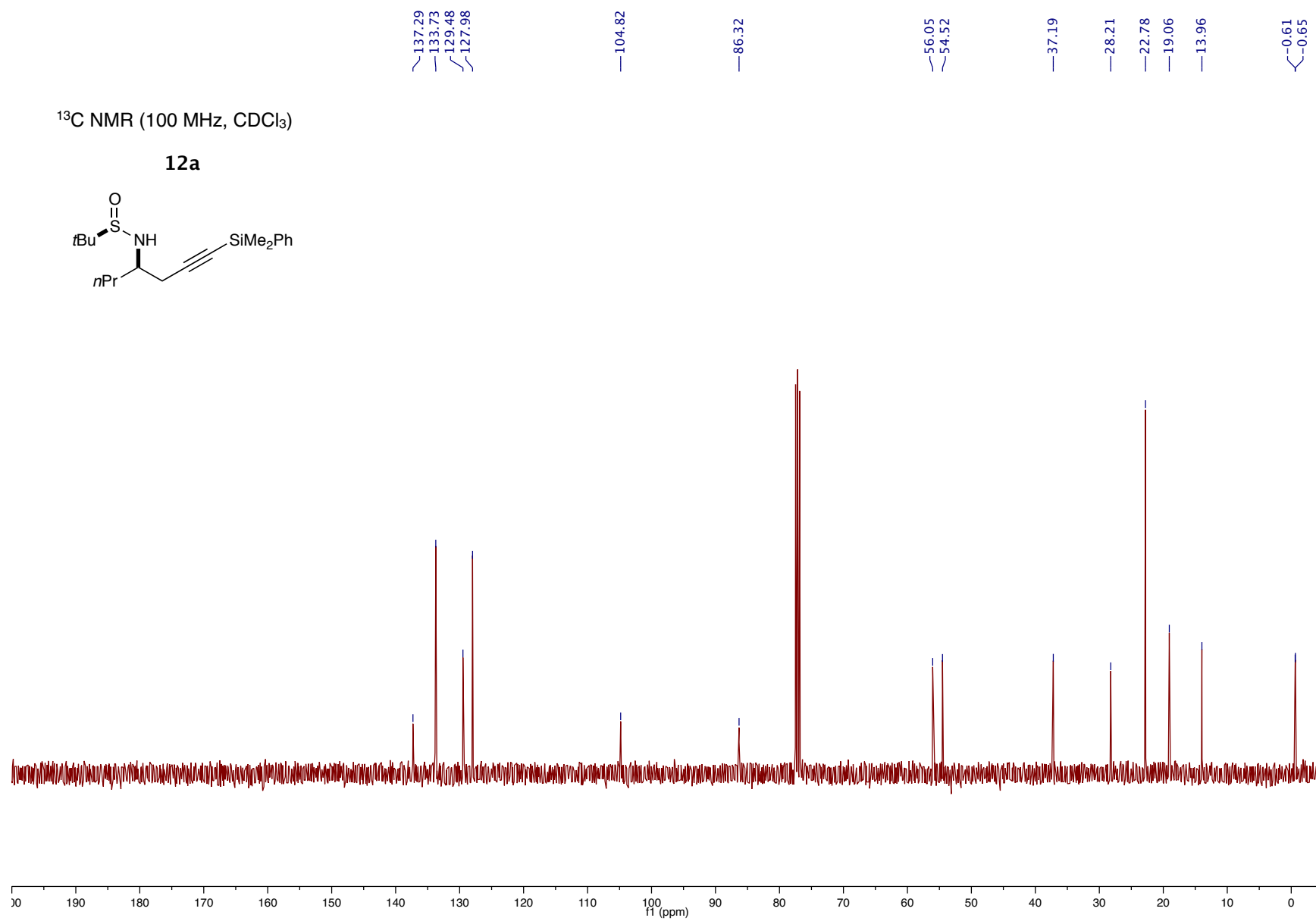
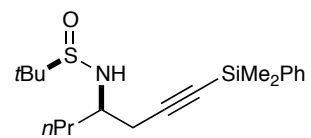
¹H NMR (400 MHz, CDCl₃)

12a



¹³C NMR (100 MHz, CDCl₃)

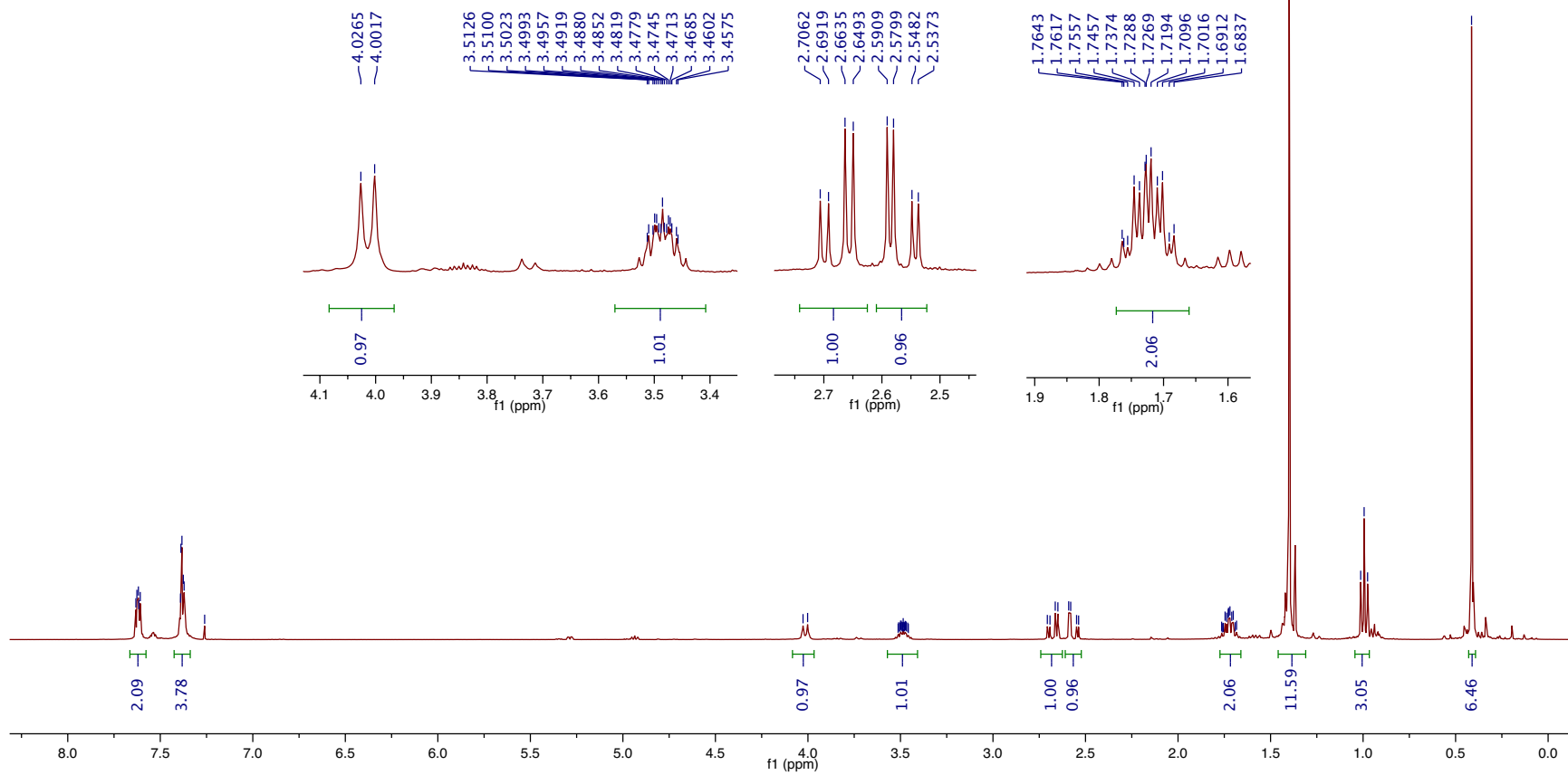
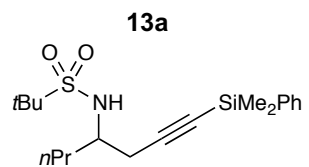
12a



7.6318
7.6265
7.6183
7.6163
7.6081
7.3908
7.3884
7.3830
7.3756
7.3713
7.2603

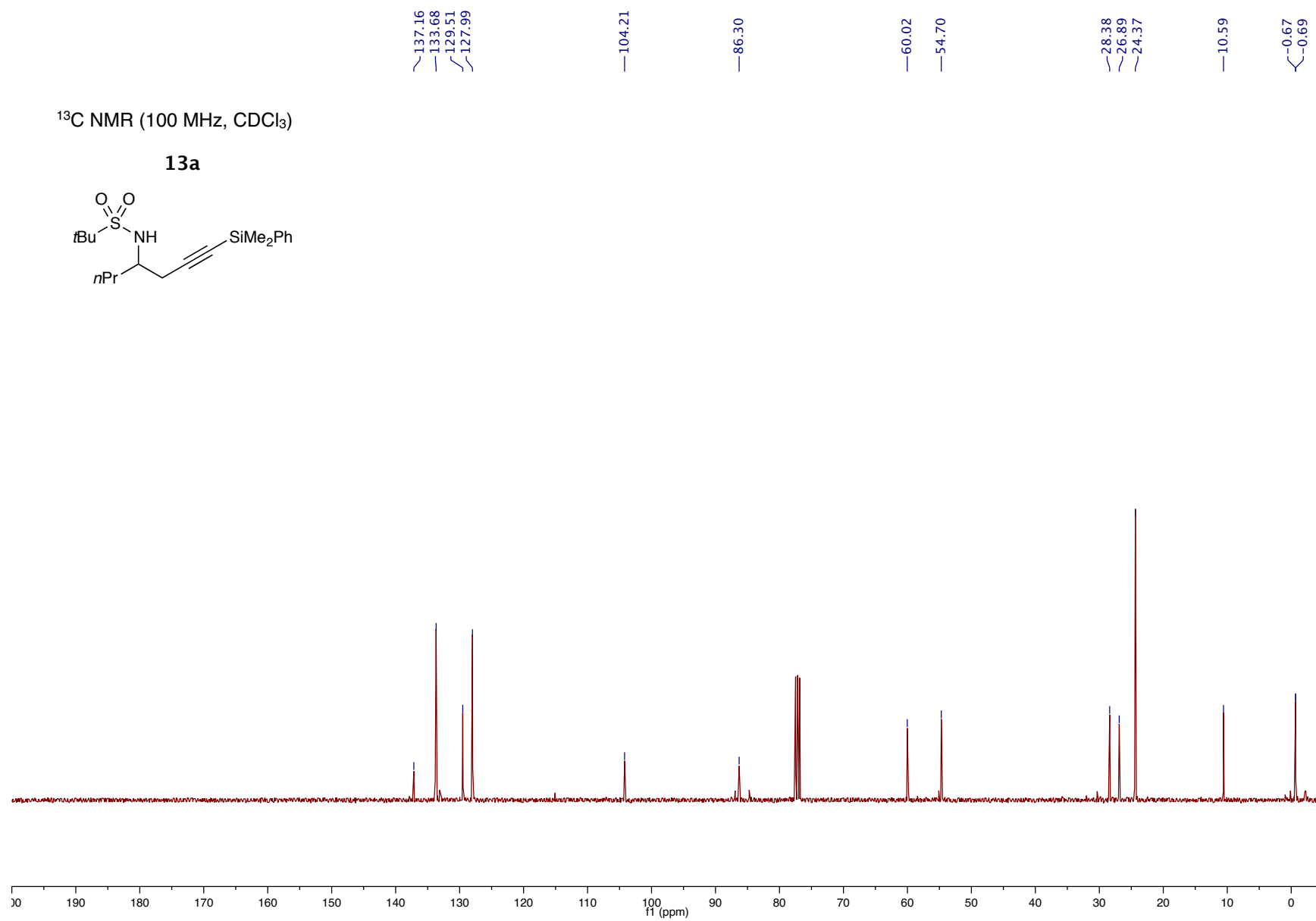
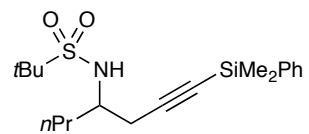
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4.0017
3.4993
3.4957
3.4919
3.4852
3.4819
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2.6919
2.6635
2.6493
2.5909
2.5799
2.5482
2.5373
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0.9943
0.9756

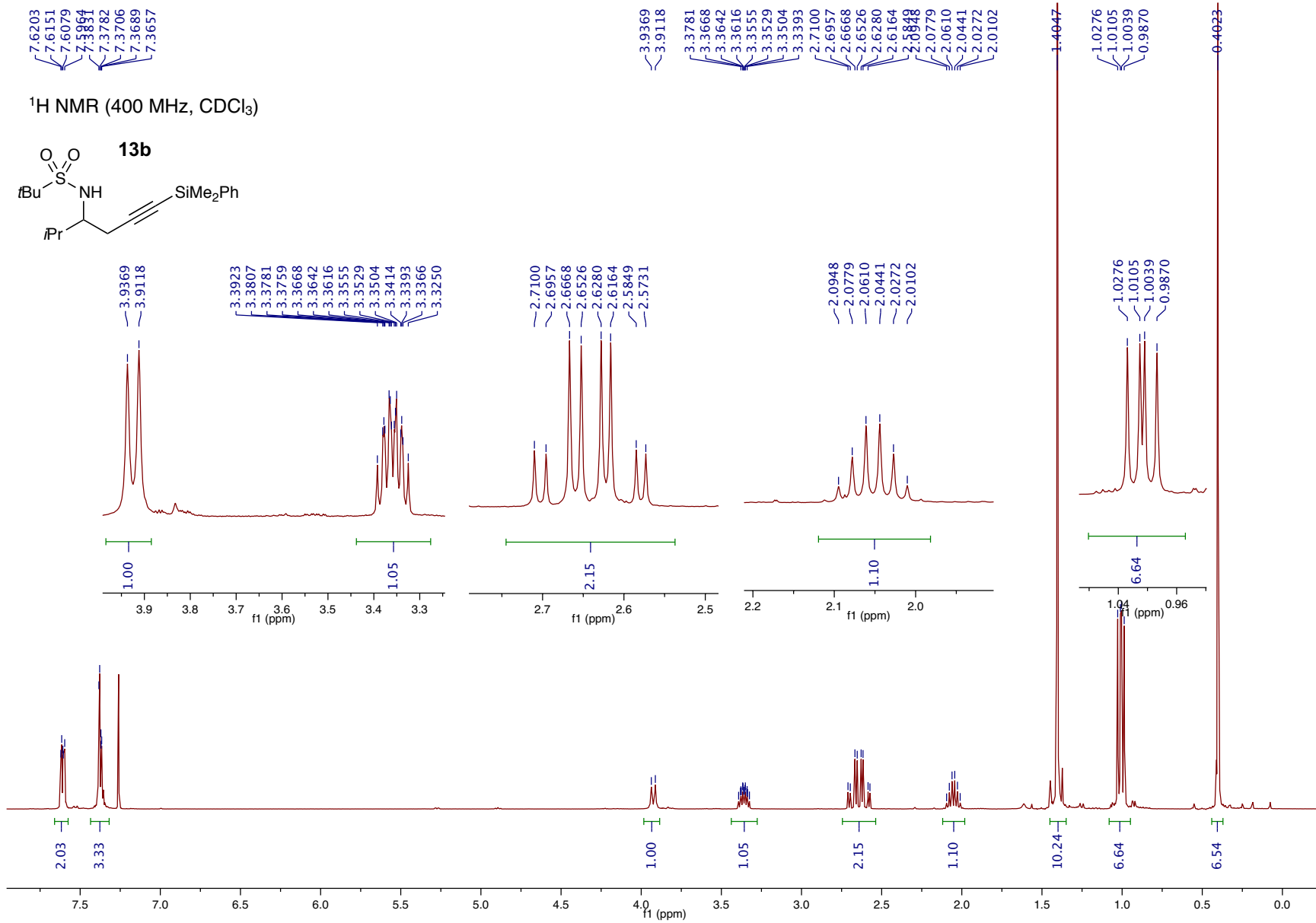
¹H NMR (400 MHz, CDCl₃)



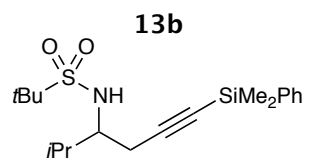
^{13}C NMR (100 MHz, CDCl_3)

13a





¹³C NMR (100 MHz, CDCl₃)



137.19
133.71
129.55
128.02

104.64

86.33

77.48 CDCl₃
77.16 CDCl₃
76.84 CDCl₃

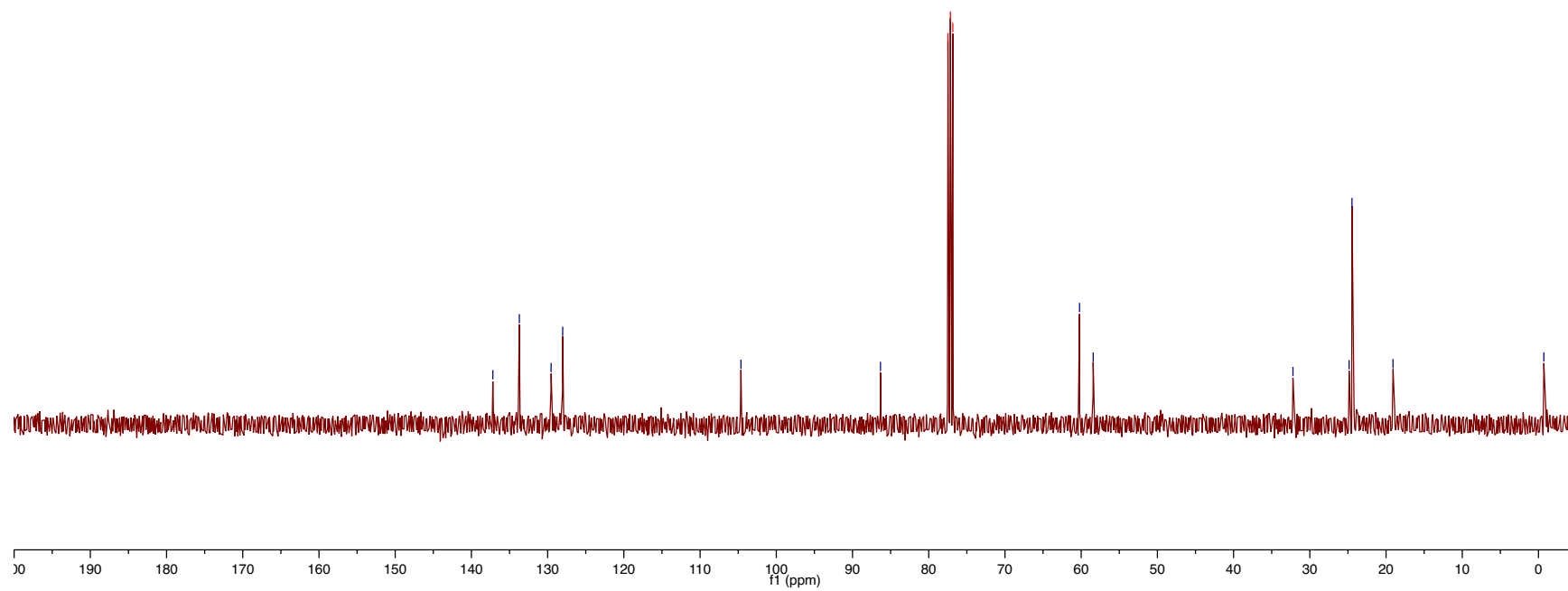
60.22
58.42

32.21

24.84
24.47

19.09

-0.70



7.4284
7.4243
7.4097
7.4049
7.3180
7.3135
7.3002
7.2980
7.2963
7.2942
7.2925
7.2792
7.2683
7.2639
7.2609
7.2593
7.2575
7.2553
7.2455
7.2421
7.2409
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7.2201
7.2064
7.2046
7.1936
7.1605

4.9765

4.0319
4.0065

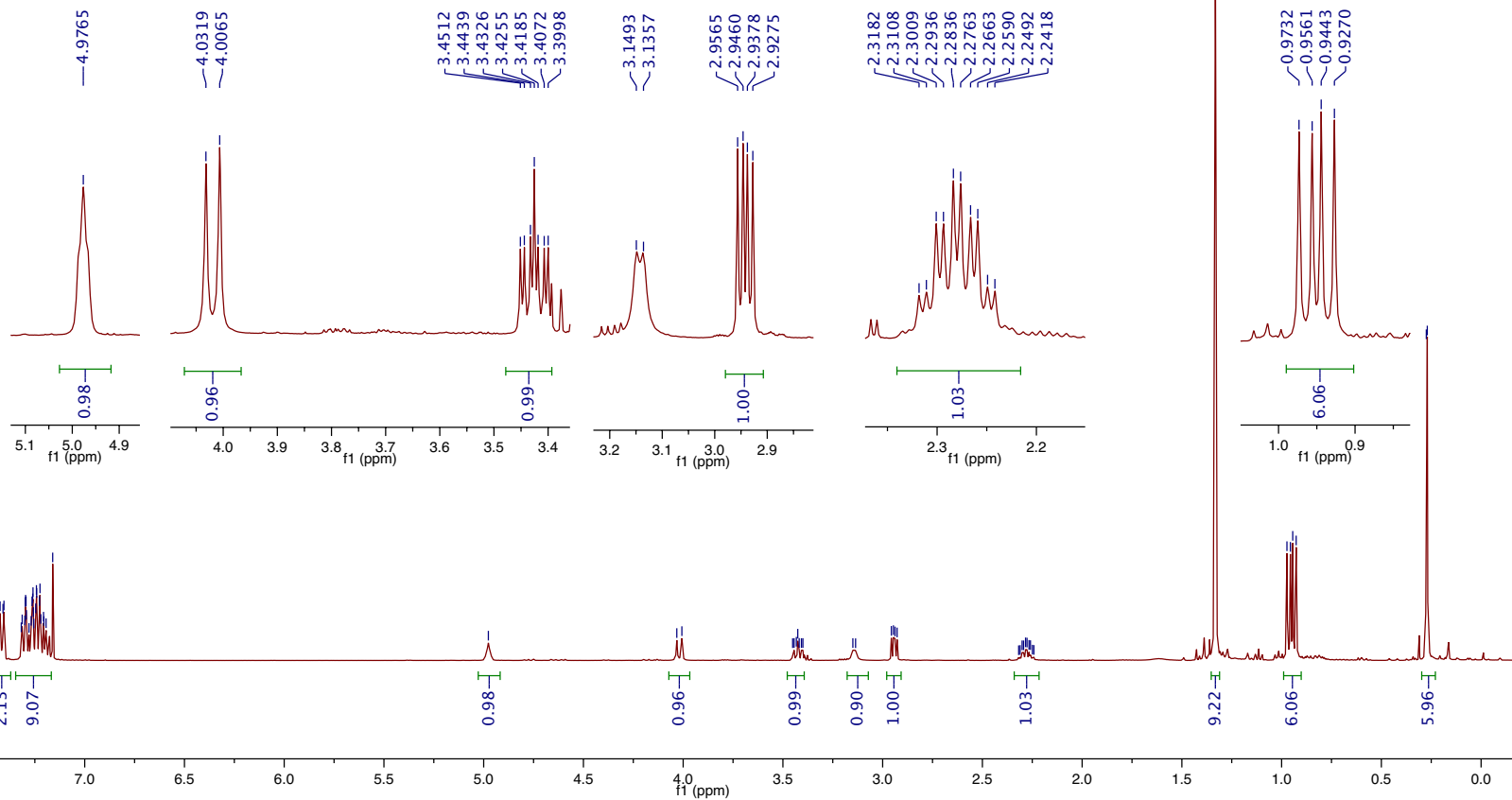
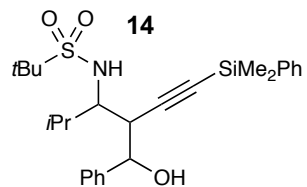
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3.3799
3.3357

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2.9460
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2.9275
2.3182
2.3108
2.3009
2.2936
2.2836
2.2763
2.2663
2.2590
2.2492
2.2418

1.3325
0.9732
0.9561
0.9443
0.9270

0.2747
0.2697

¹H NMR (400 MHz, CDCl₃)



¹³C NMR (100 MHz, CDCl₃)

14

