

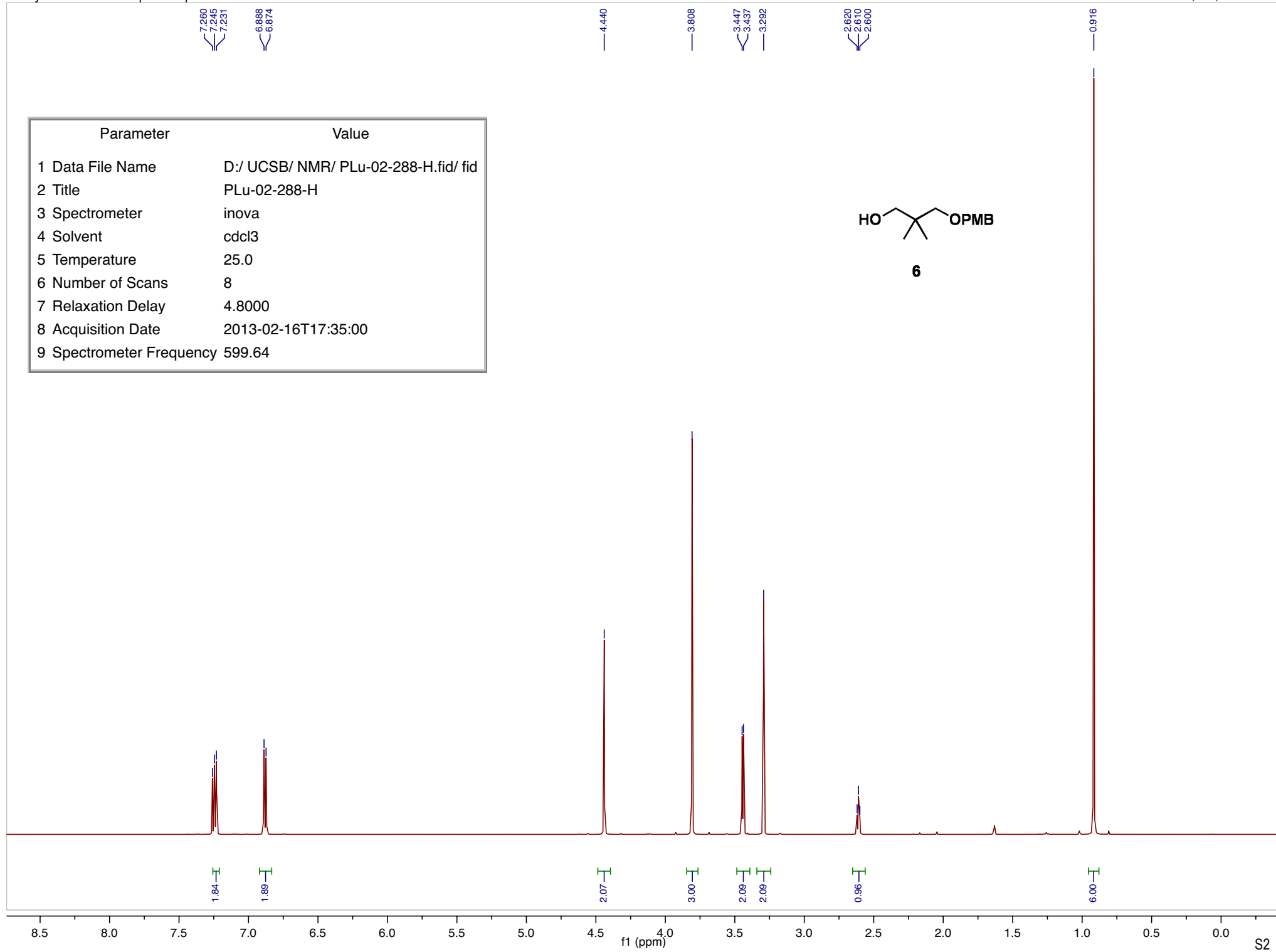
Total Synthesis of Maoecrystal V: Early-Stage C–H Functionalization and Lactone Formation by Radical Cyclization

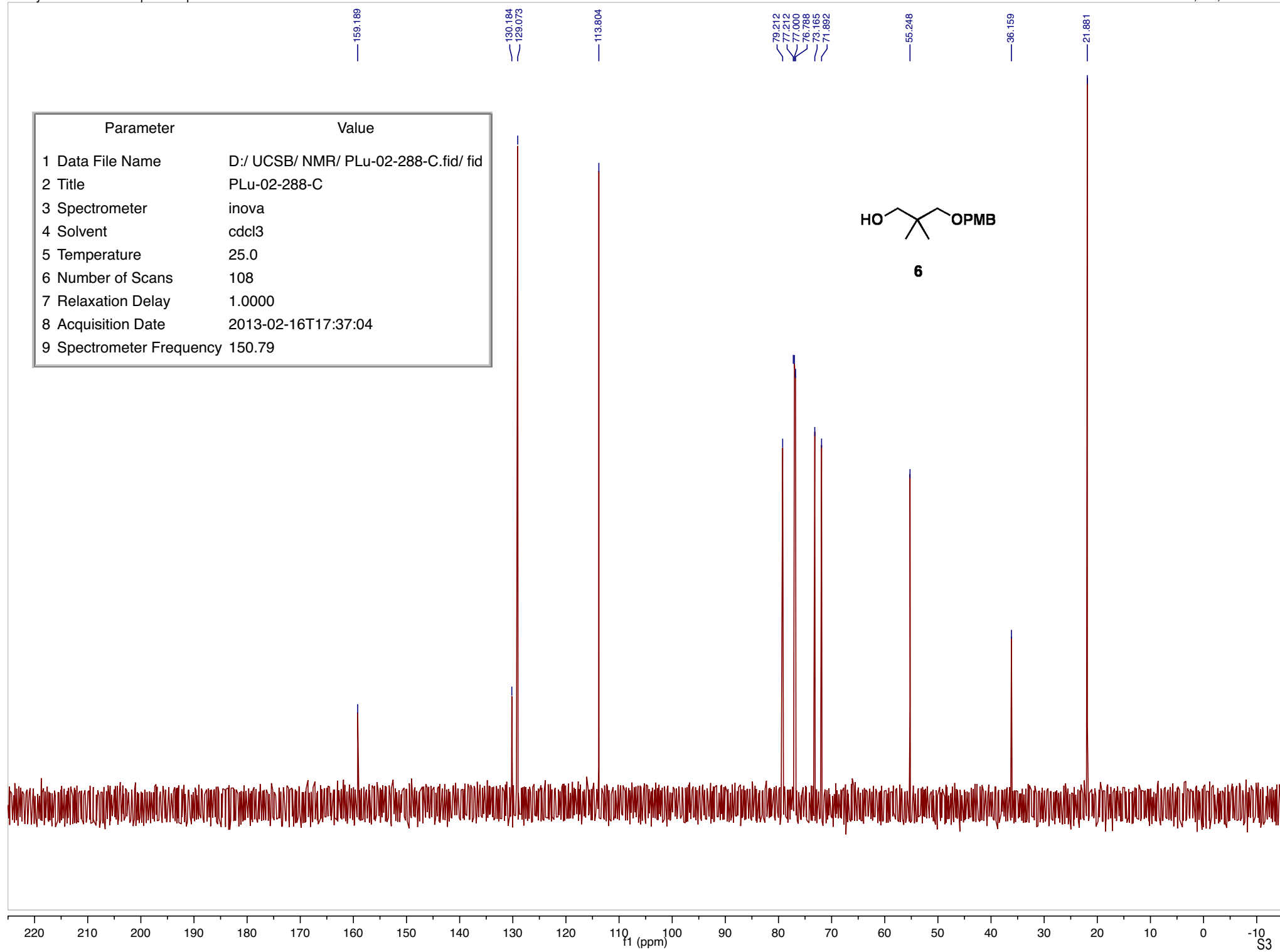
Ping Lu, Zhenhua Gu, Armen Zakarian*

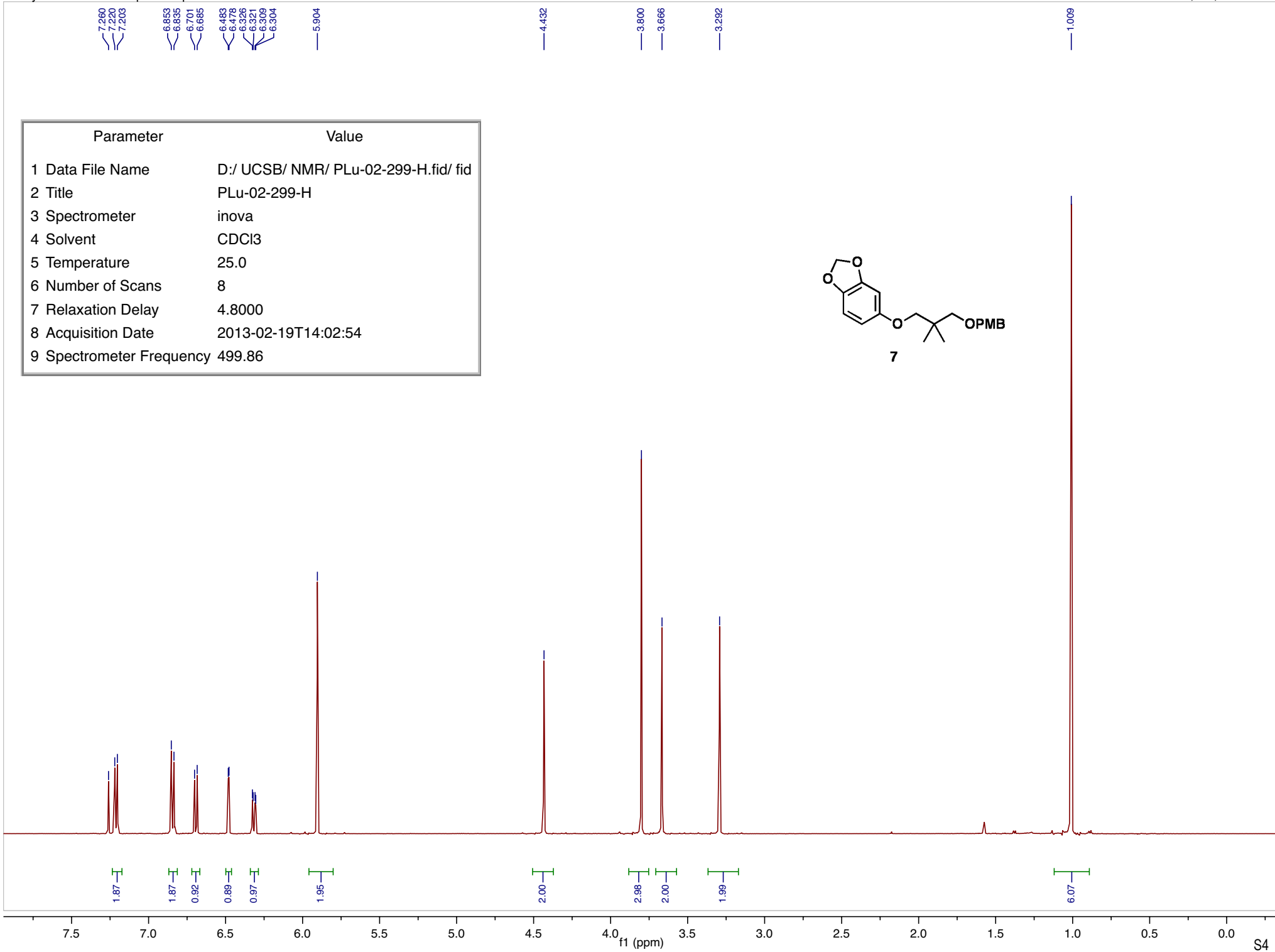
Department of Chemistry and Biochemistry, University of California, Santa Barbara, CA 93106, Telephone: (805)-893-3717; Fax: (805)-893-4120; E-mail: zakarian@chem.ucsb.edu

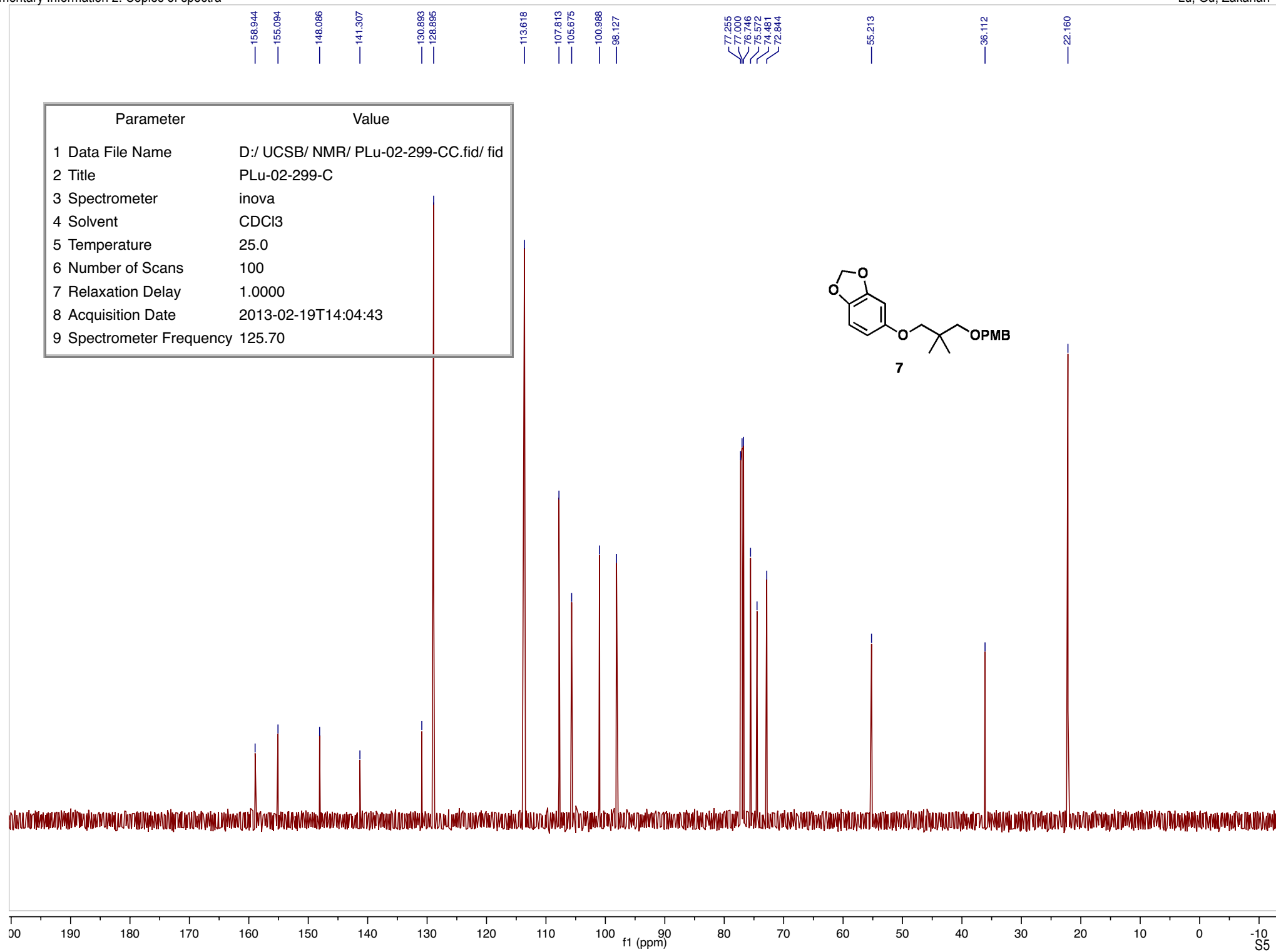
SUPPORTING INFORMATION 2

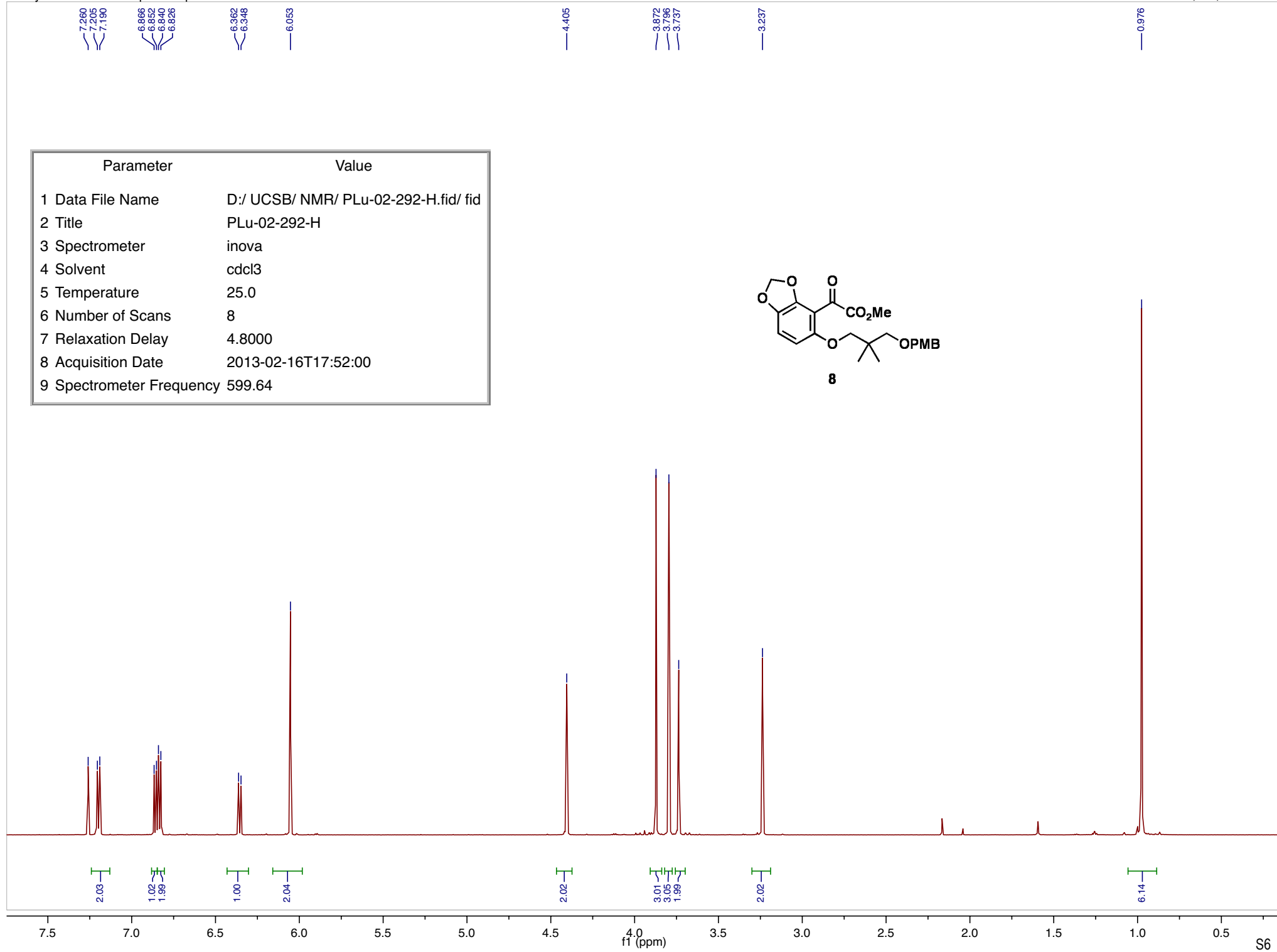
COPIES OF NMR SPECTRA

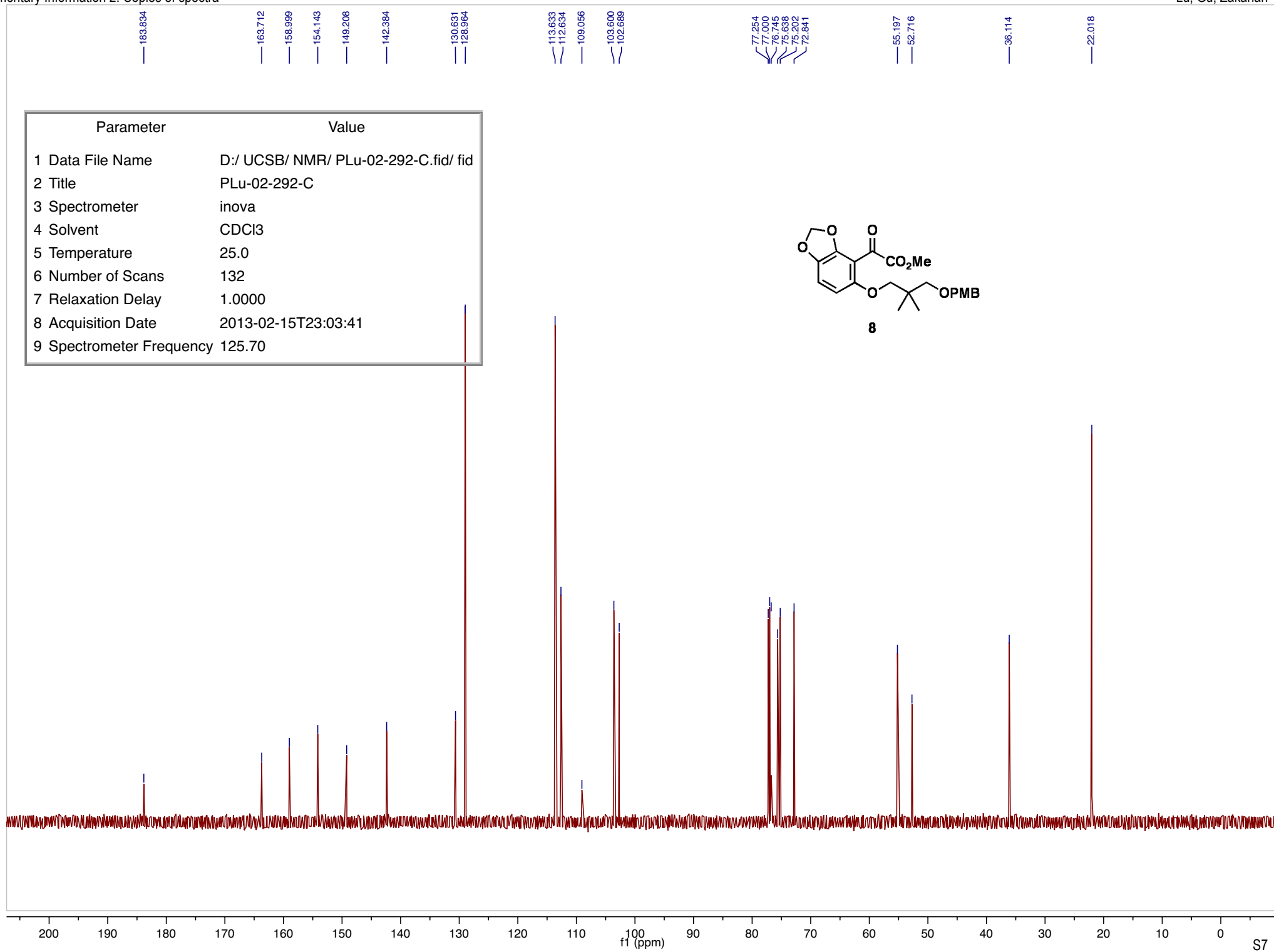


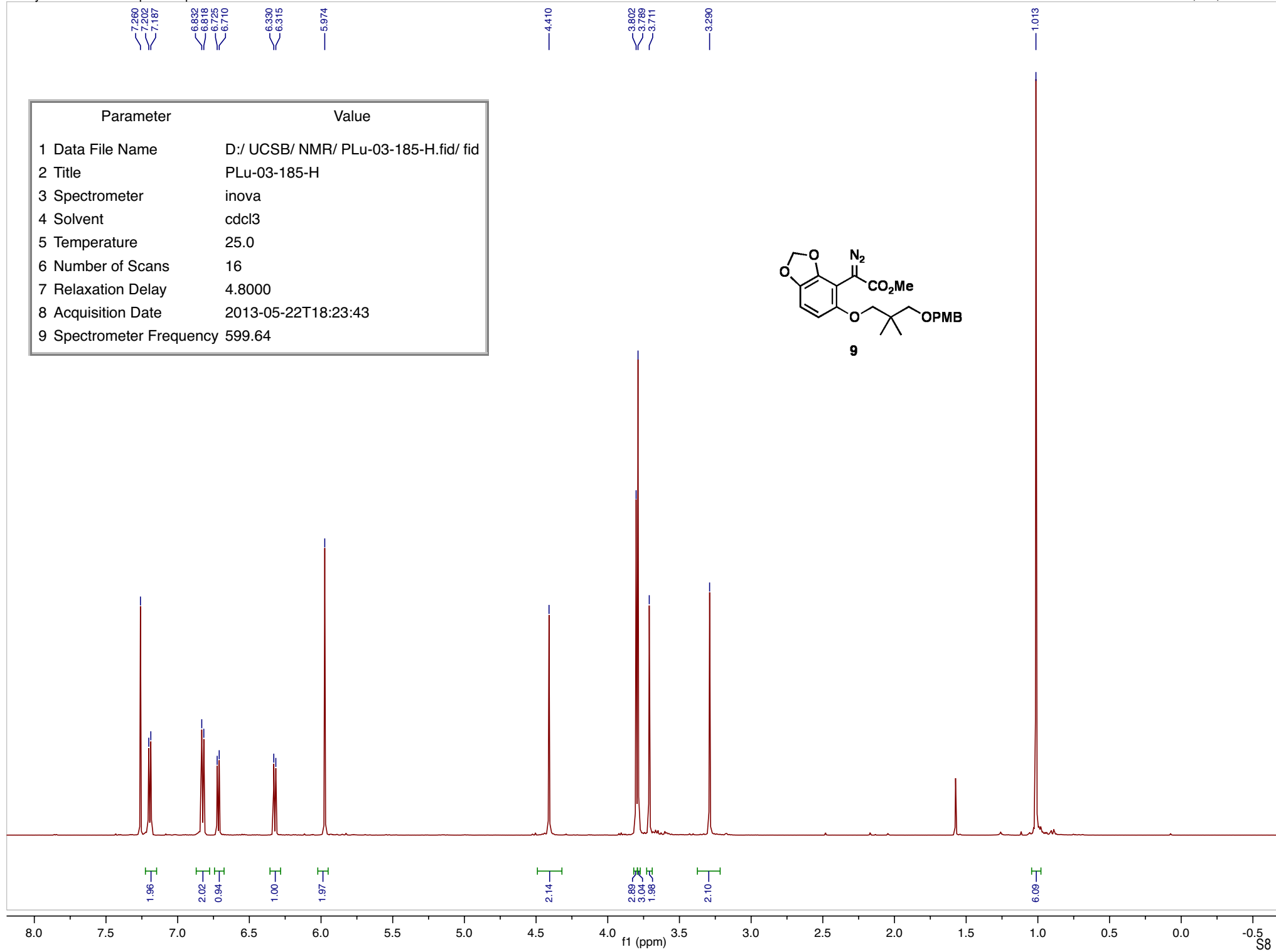


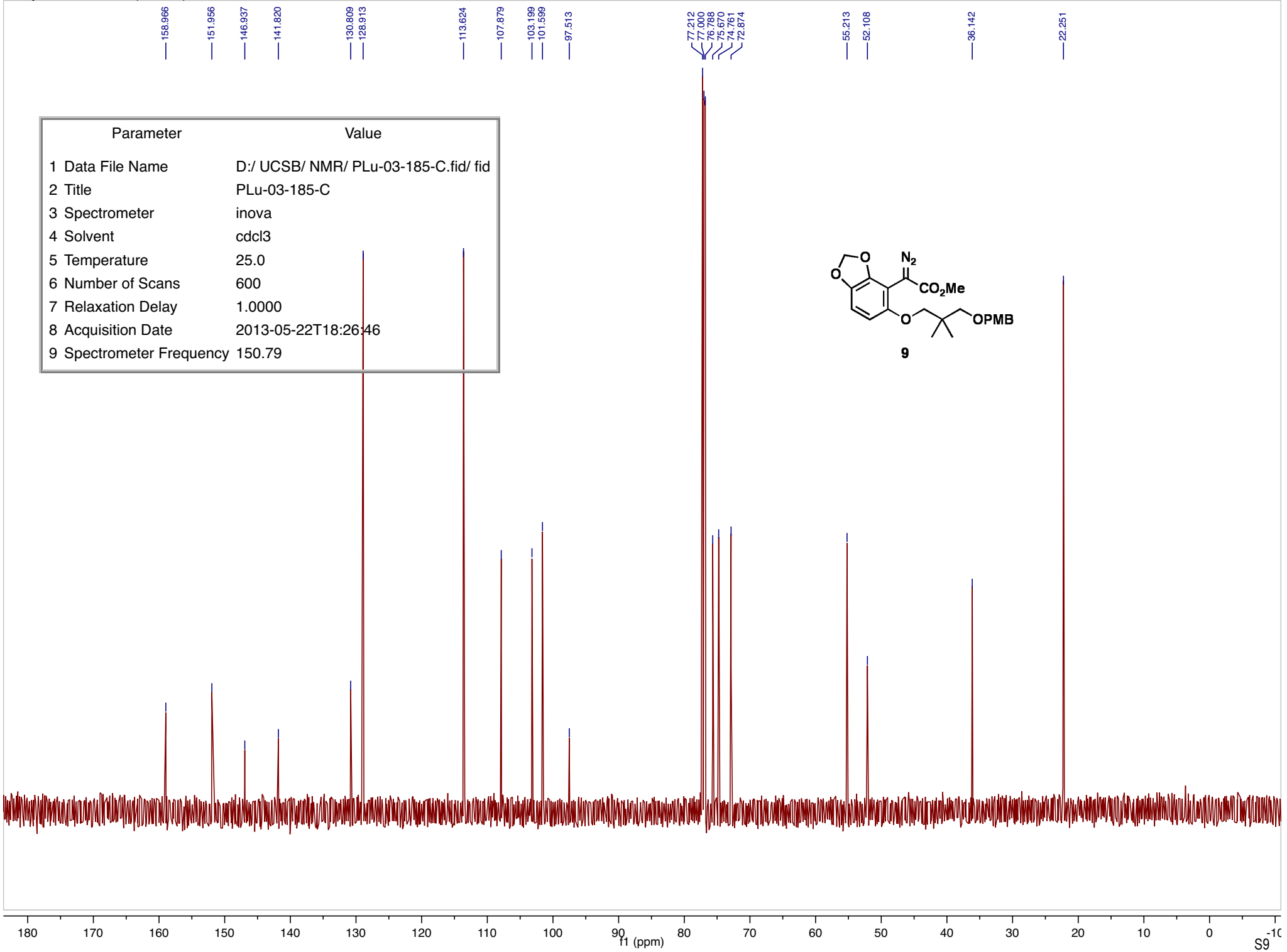


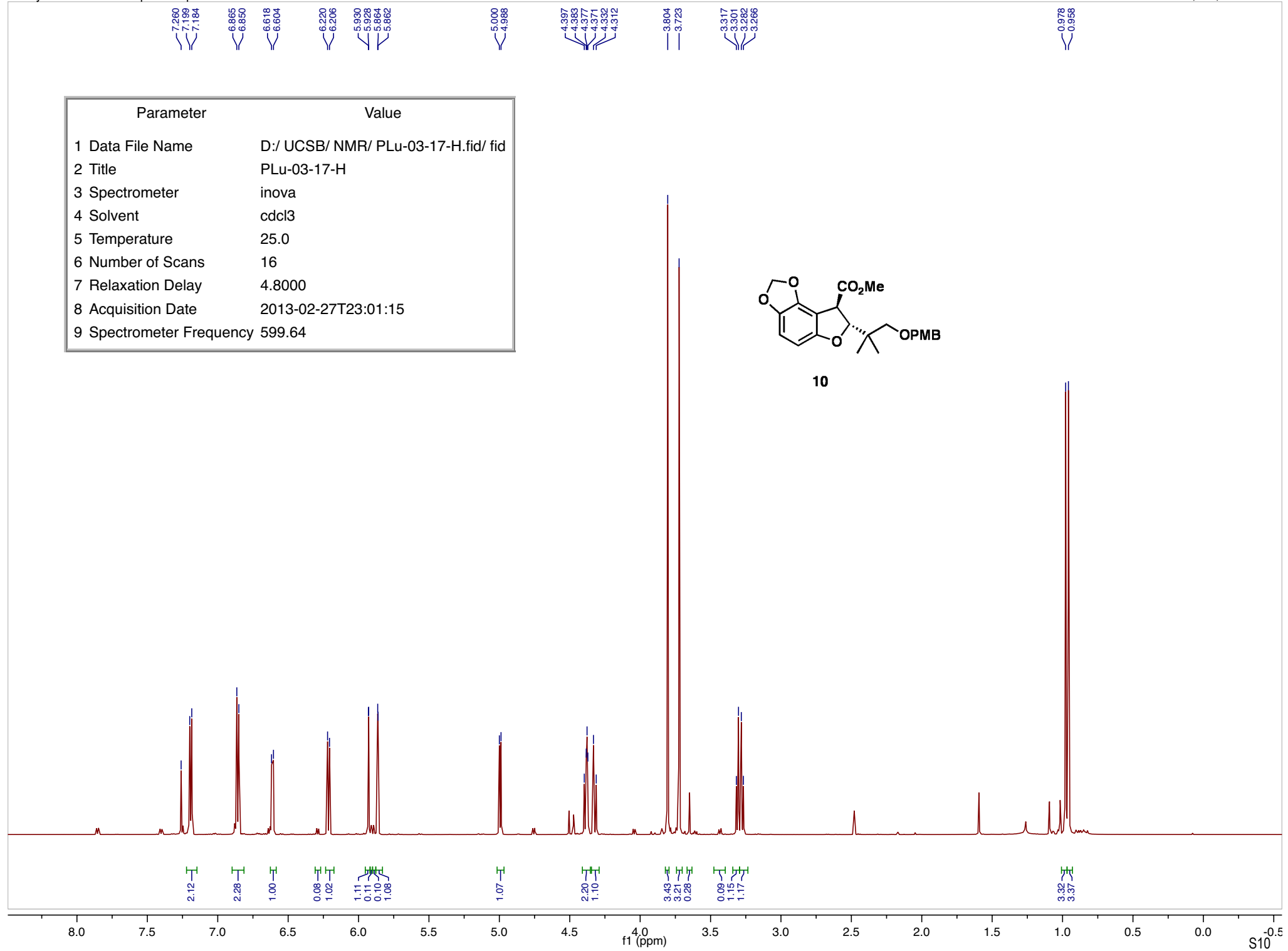


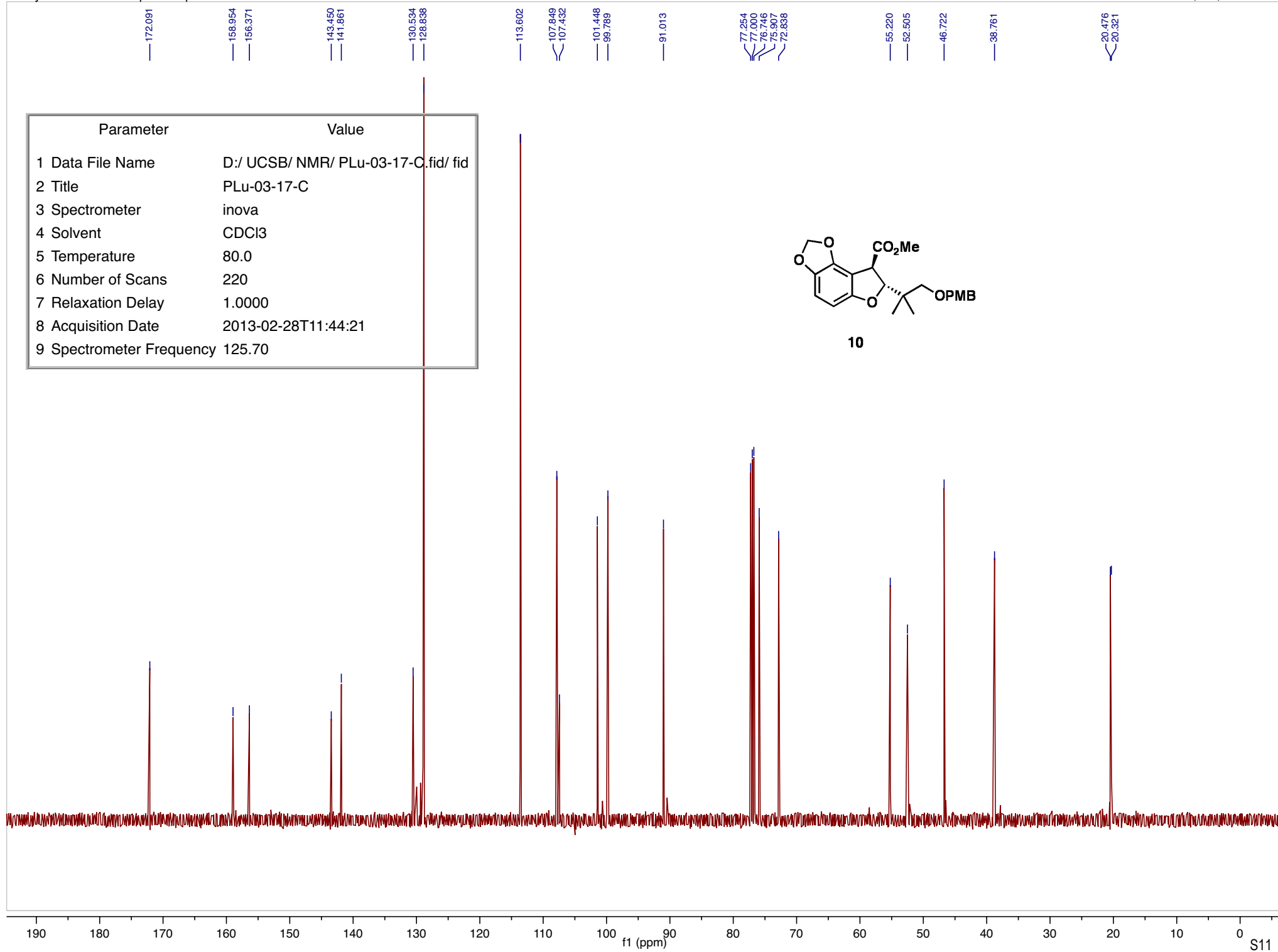


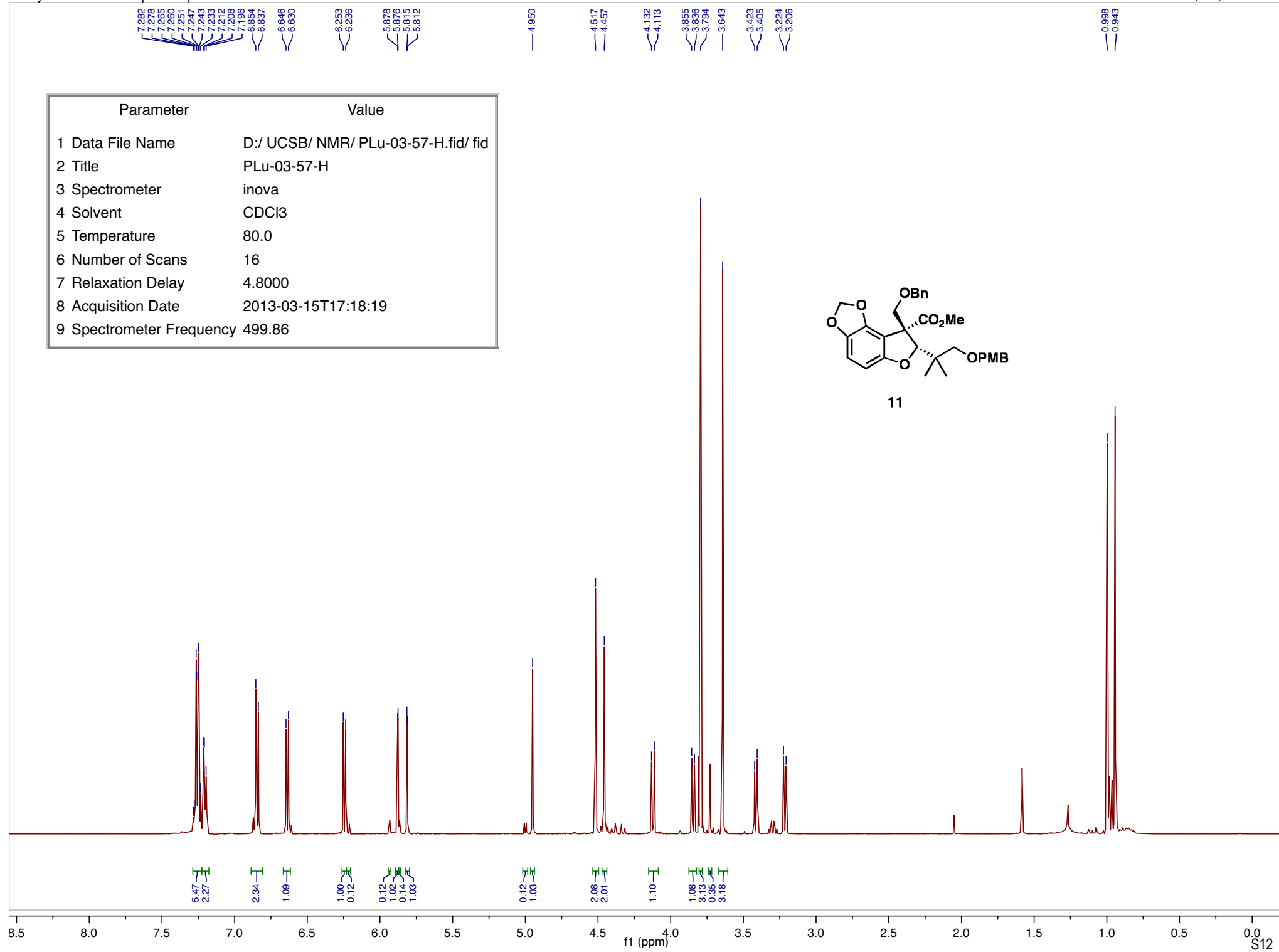


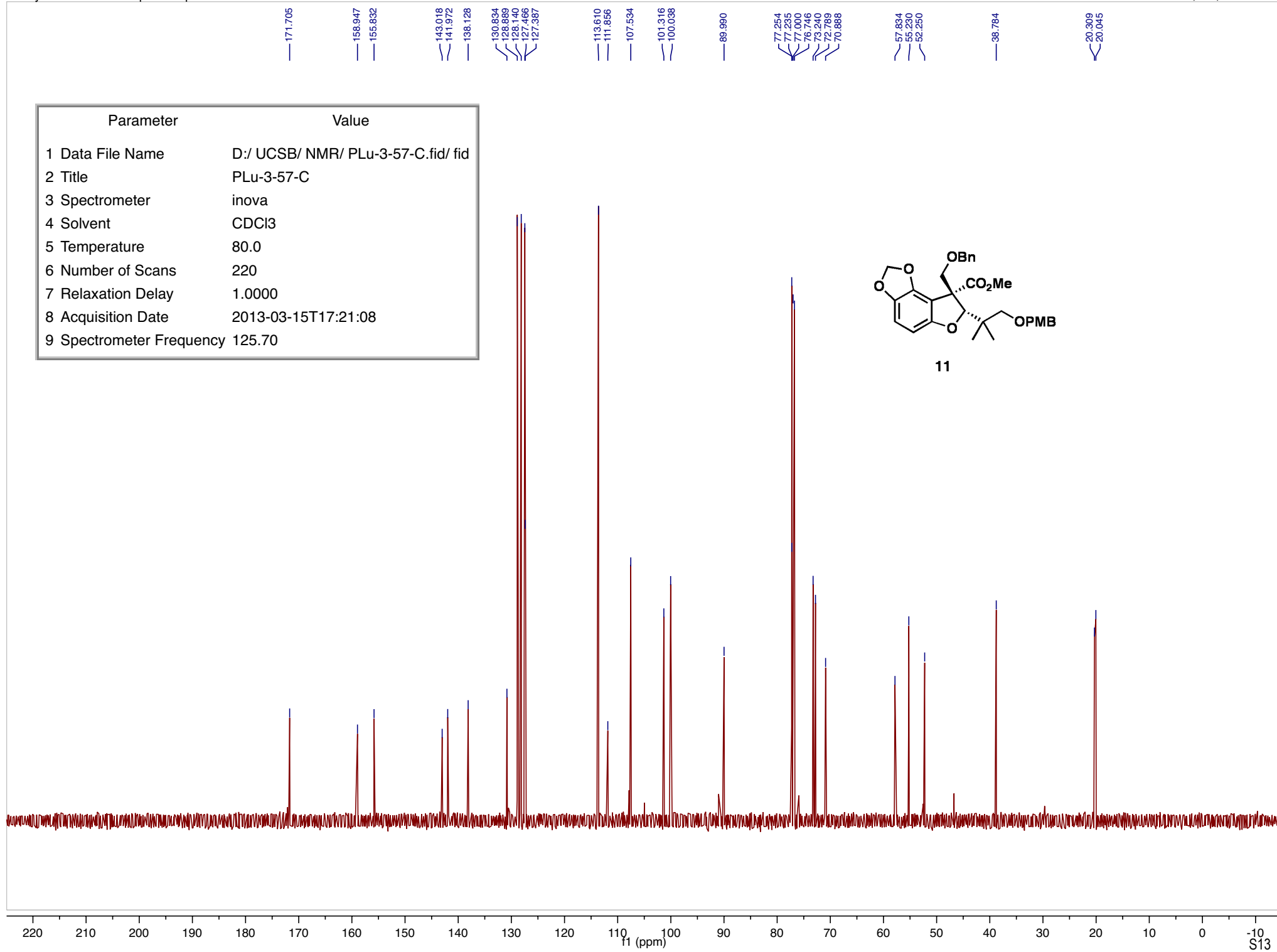


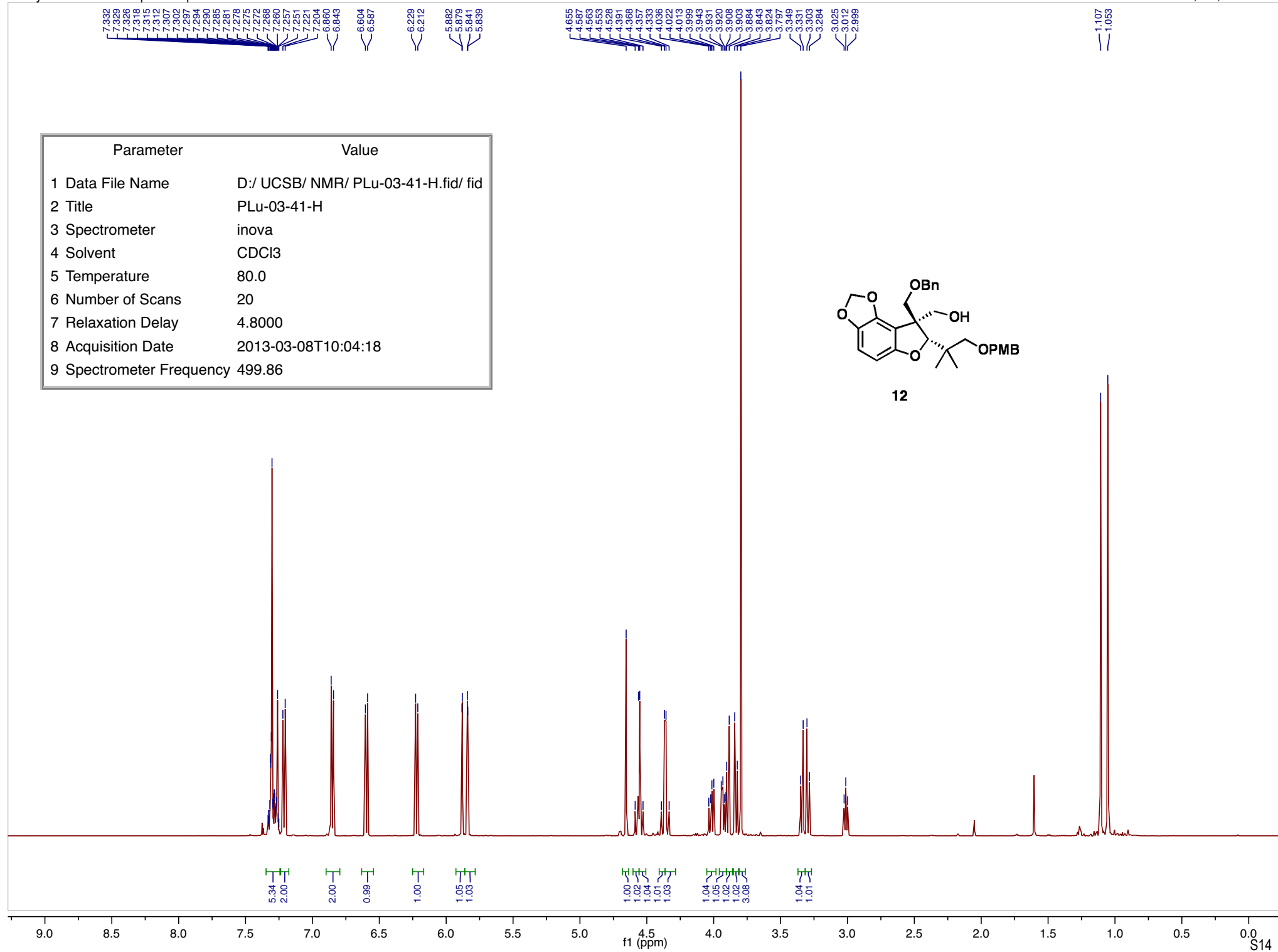


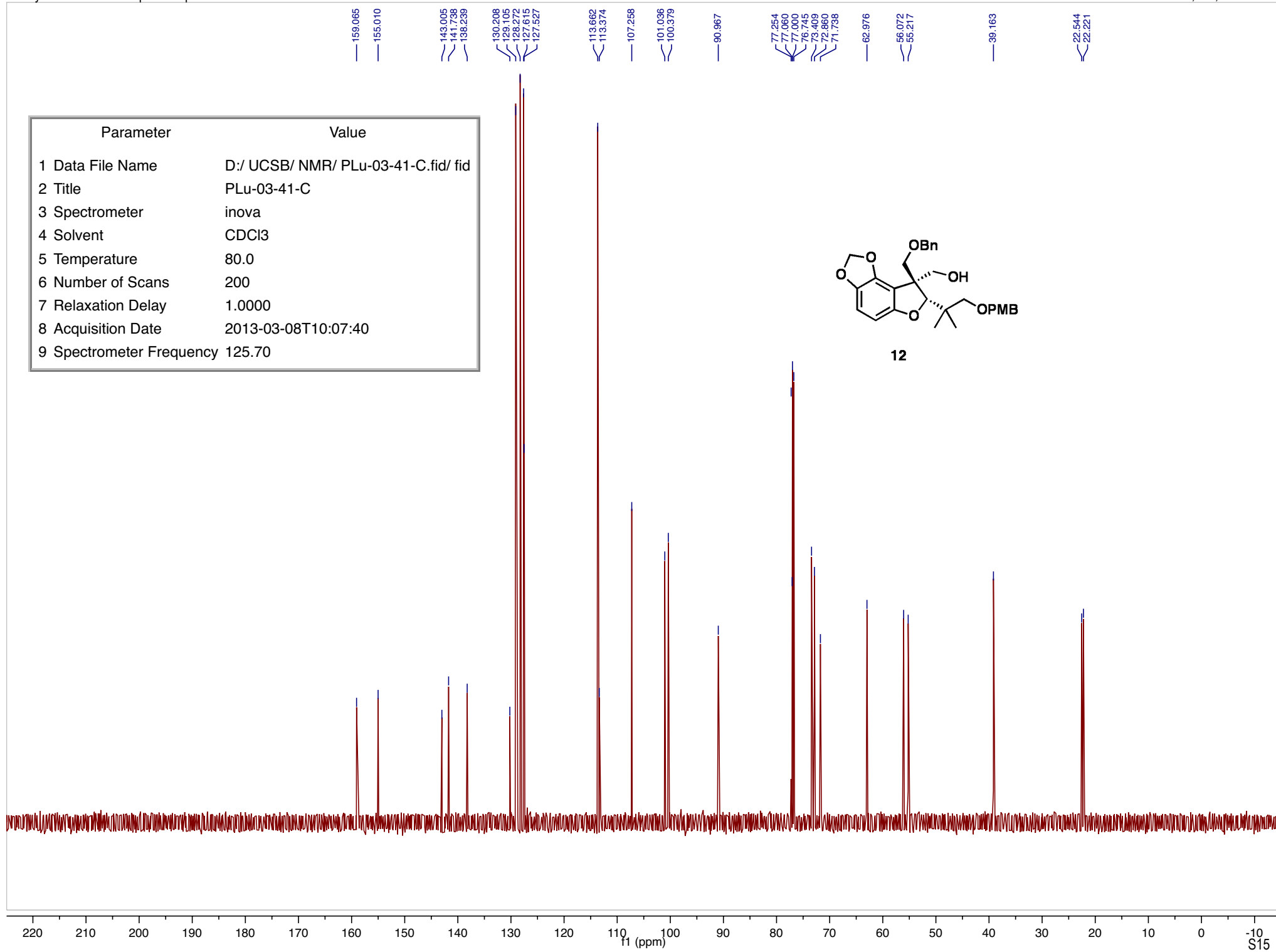


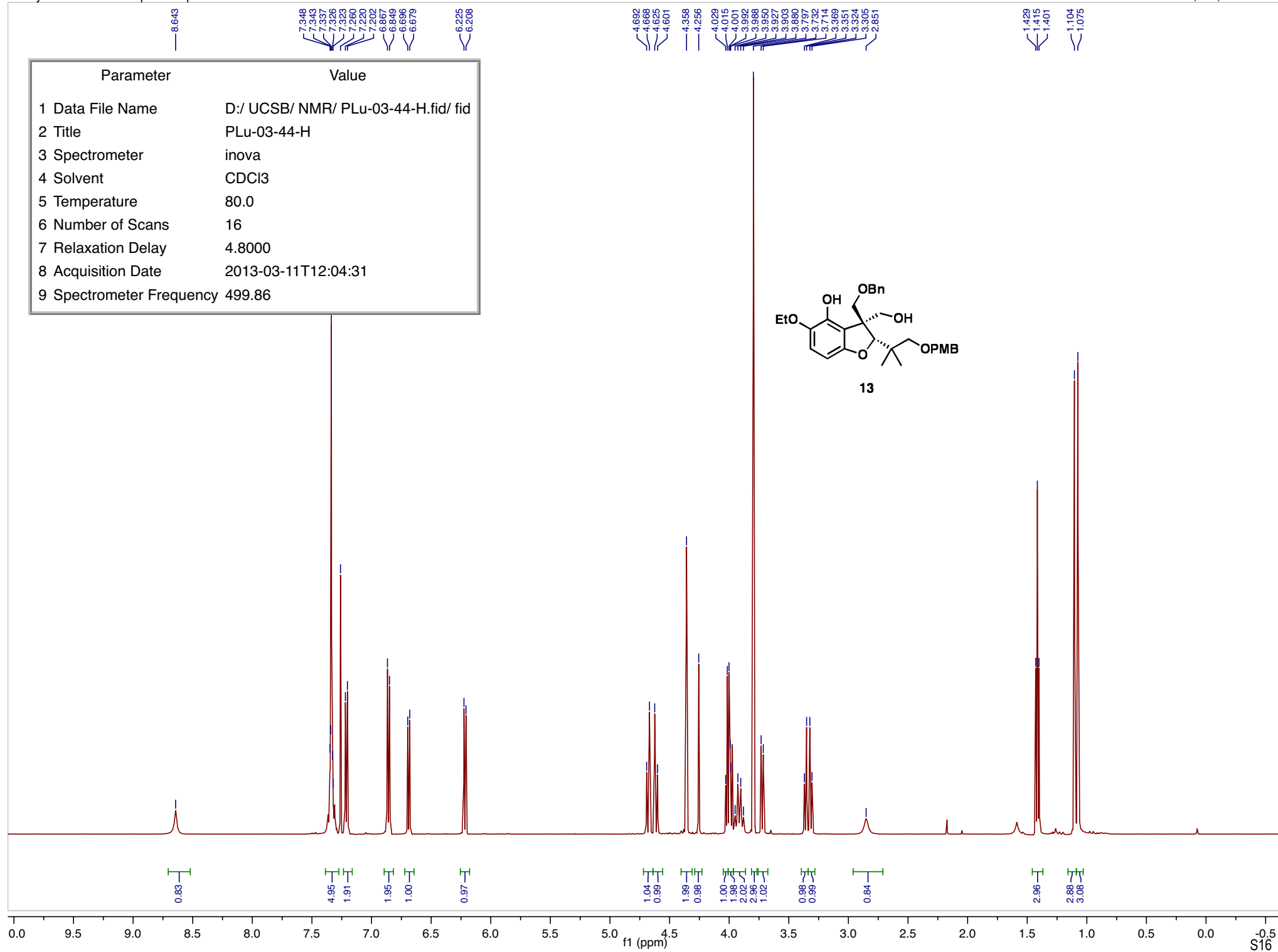


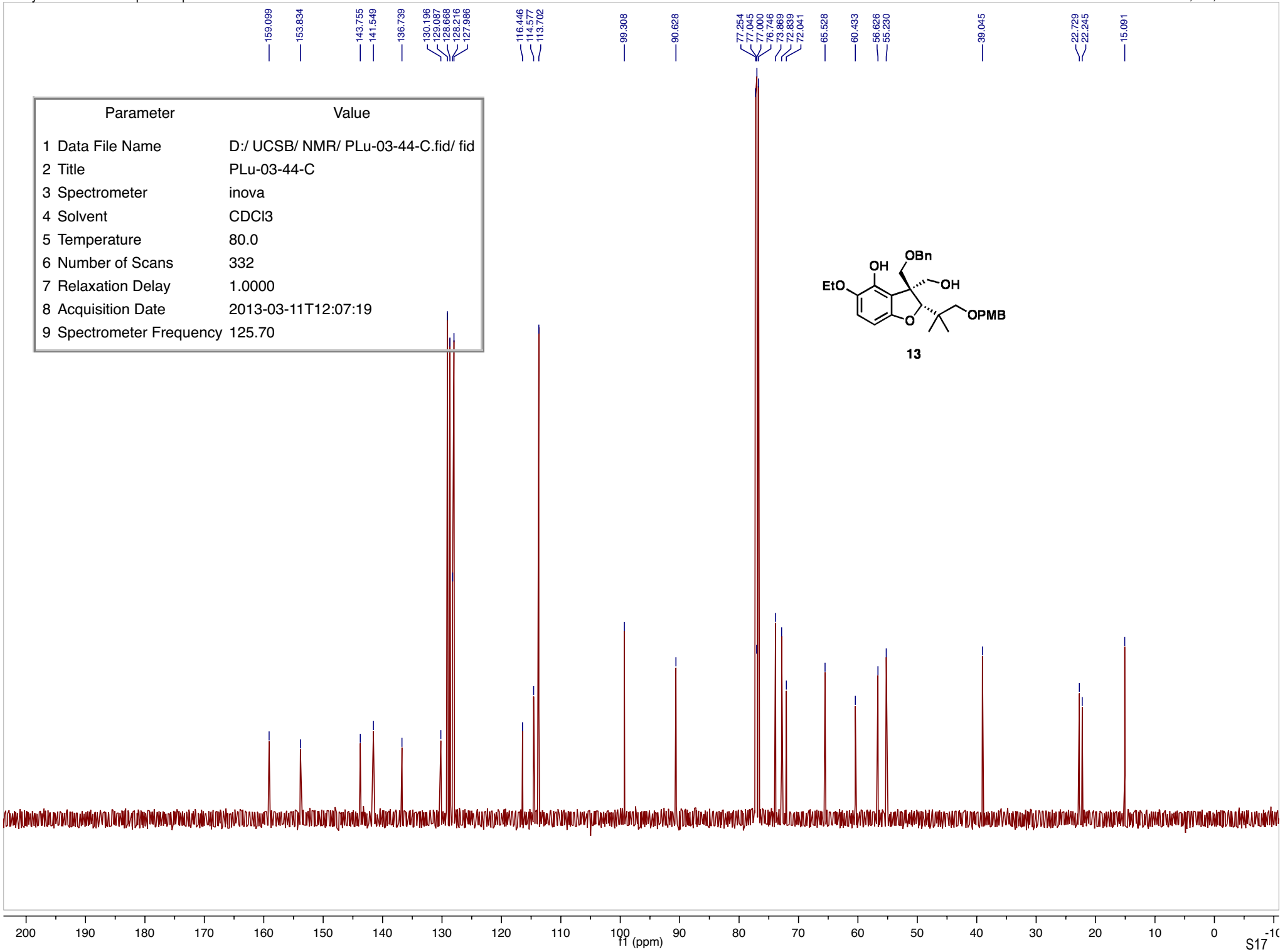




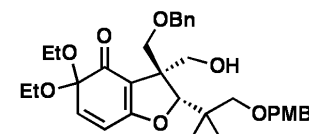




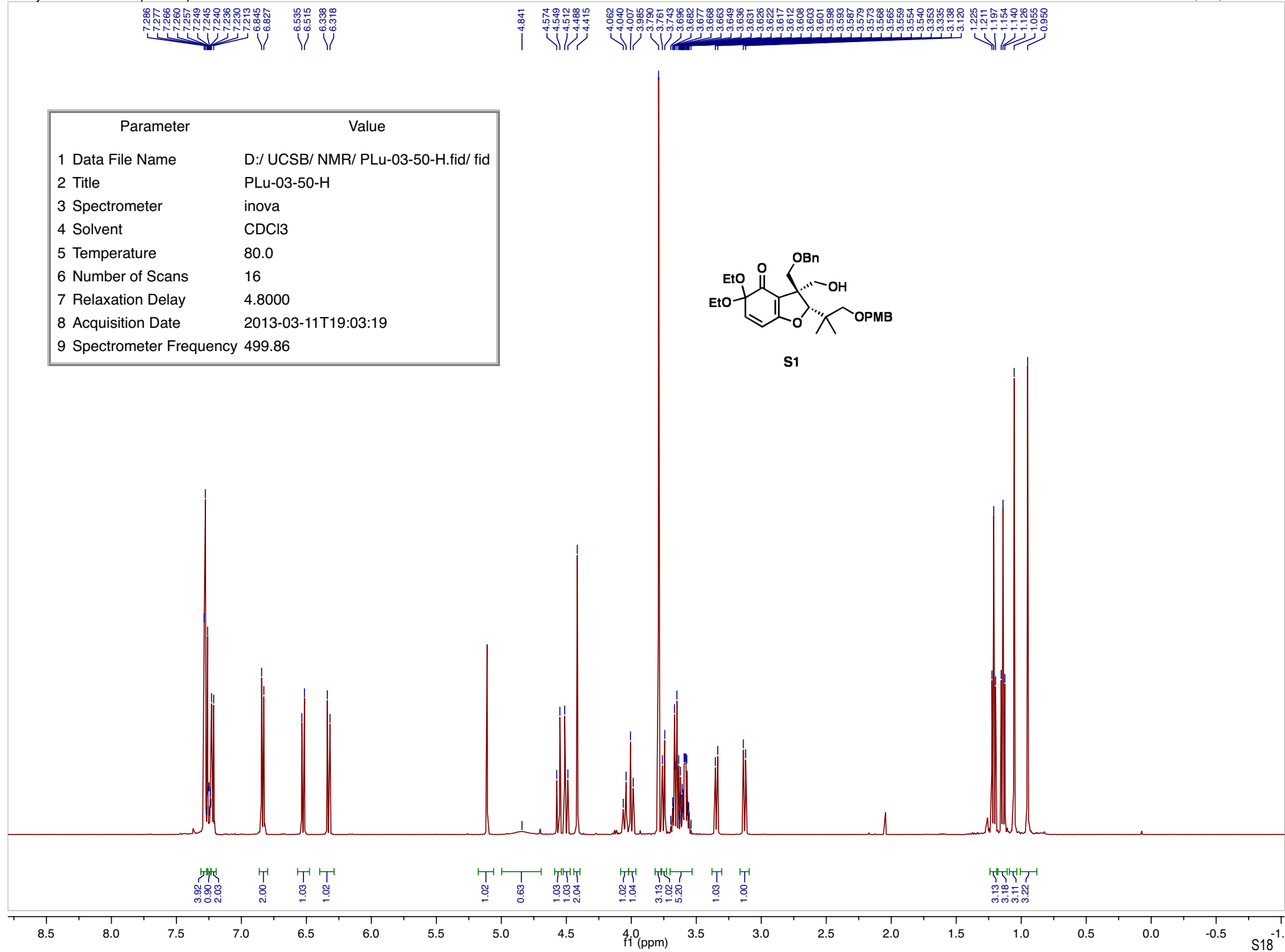


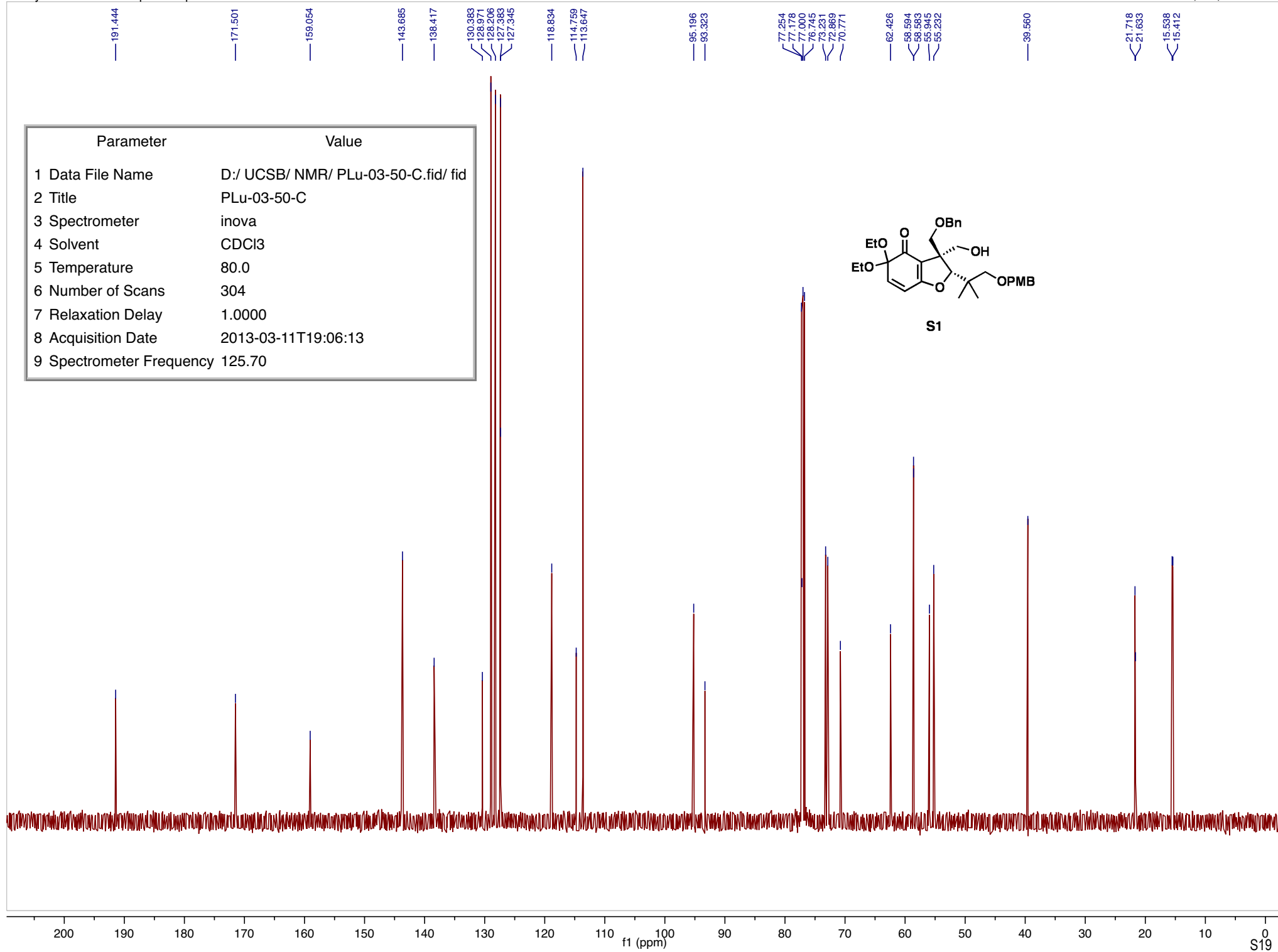


Parameter	Value
1 Data File Name	D:/ UCSB/ NMR/ P Lu-03-50-H.fid/ fid
2 Title	PLu-03-50-H
3 Spectrometer	inova
4 Solvent	CDCl ₃
5 Temperature	80.0
6 Number of Scans	16
7 Relaxation Delay	4.8000
8 Acquisition Date	2013-03-11T19:03:19
9 Spectrometer Frequency	499.86

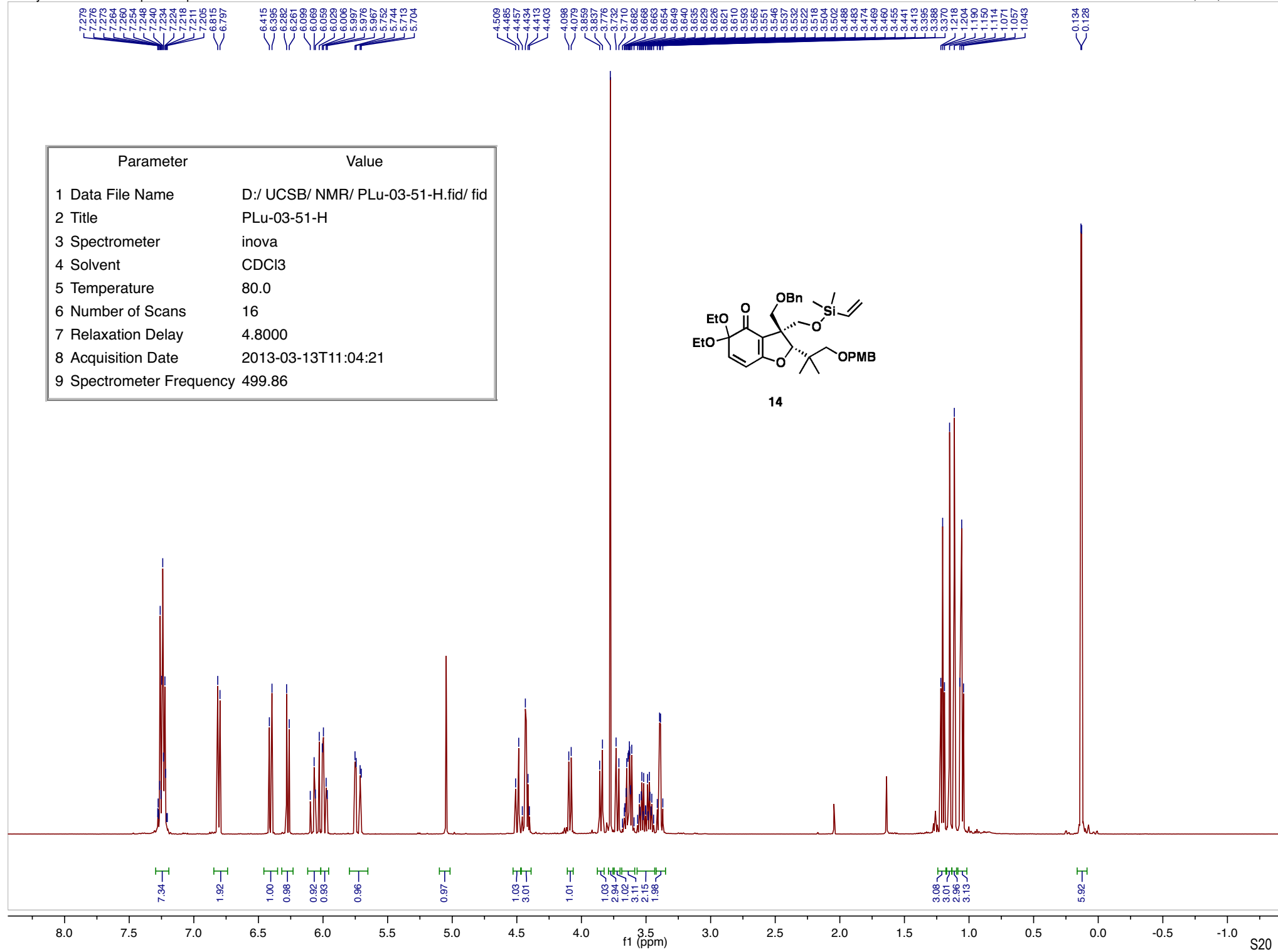
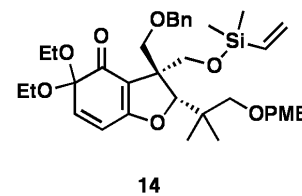


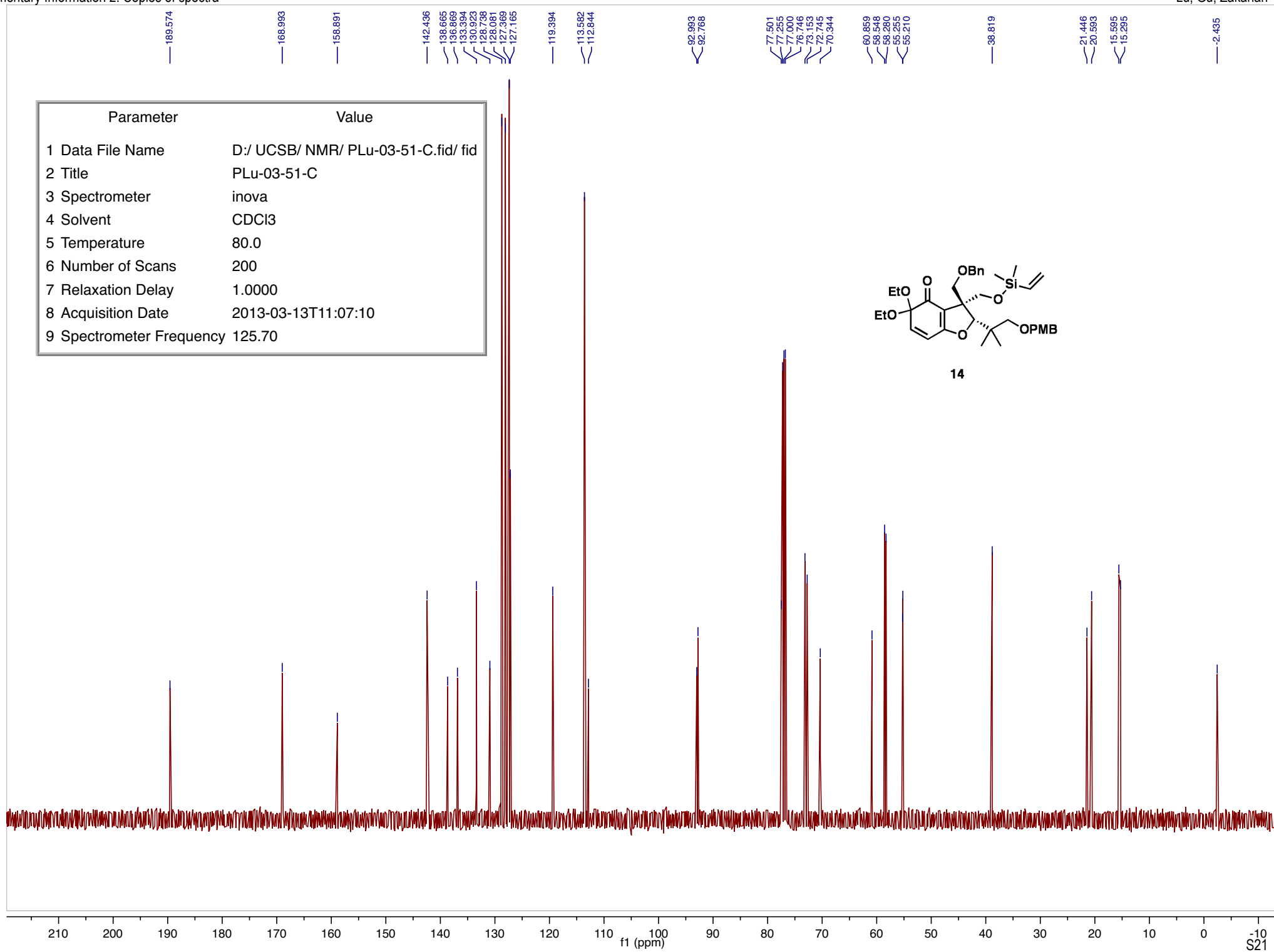
S1



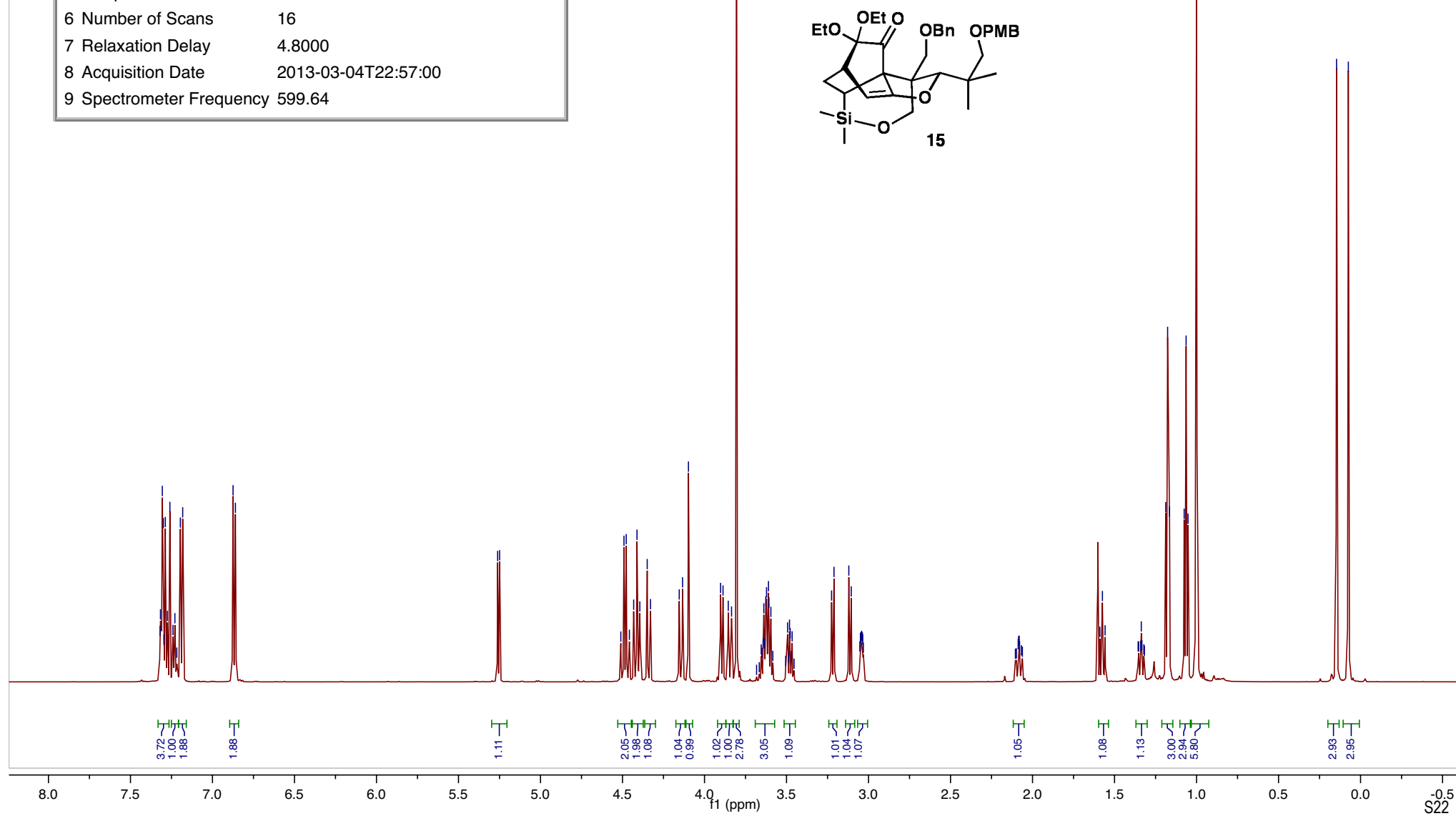


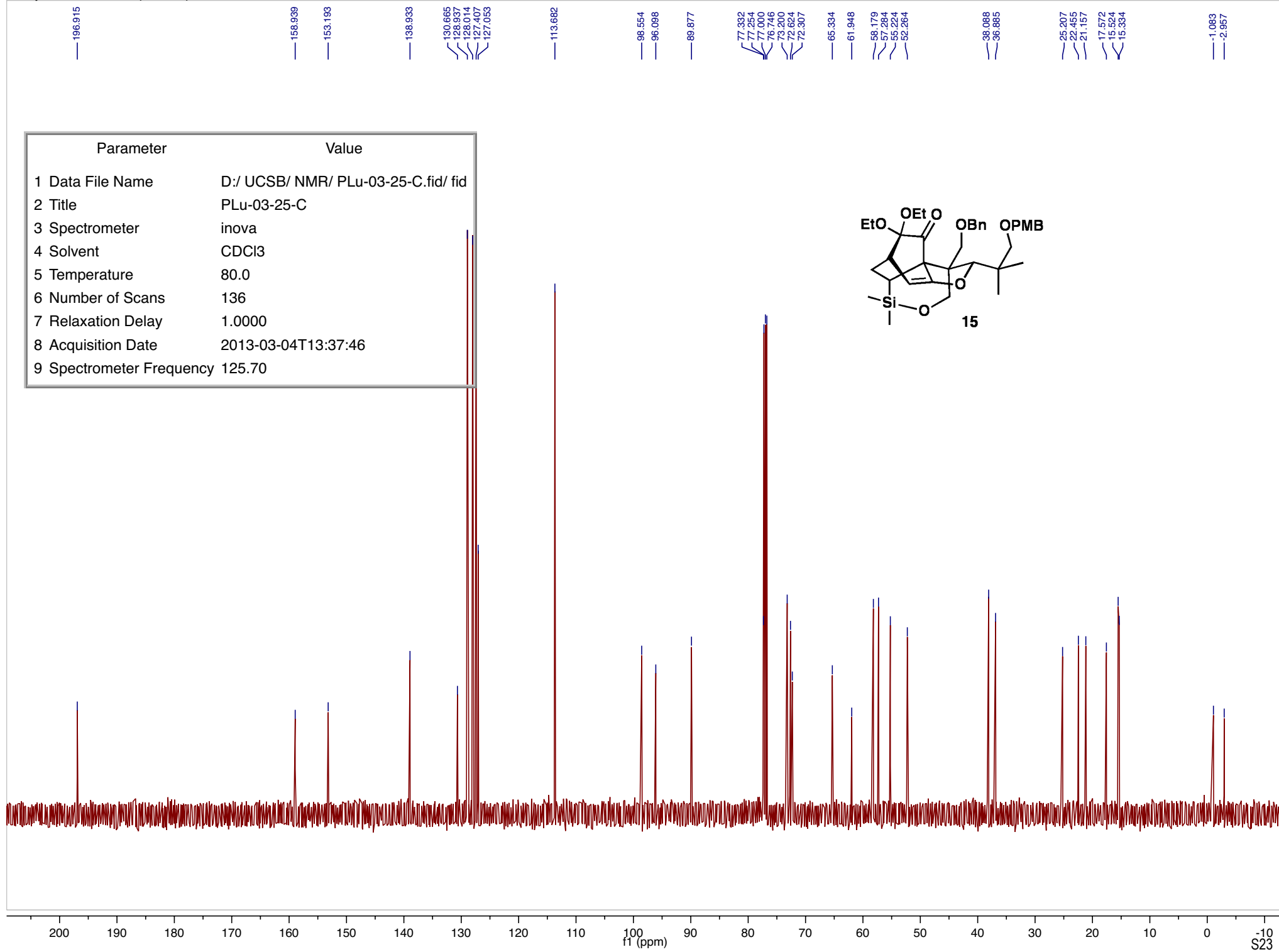
Parameter	Value
1 Data File Name	D:/ UCSB/ NMR/ PLu-03-51-H.fid/ fid
2 Title	PLu-03-51-H
3 Spectrometer	inova
4 Solvent	CDCl3
5 Temperature	80.0
6 Number of Scans	16
7 Relaxation Delay	4.8000
8 Acquisition Date	2013-03-13T11:04:21
9 Spectrometer Frequency	499.86

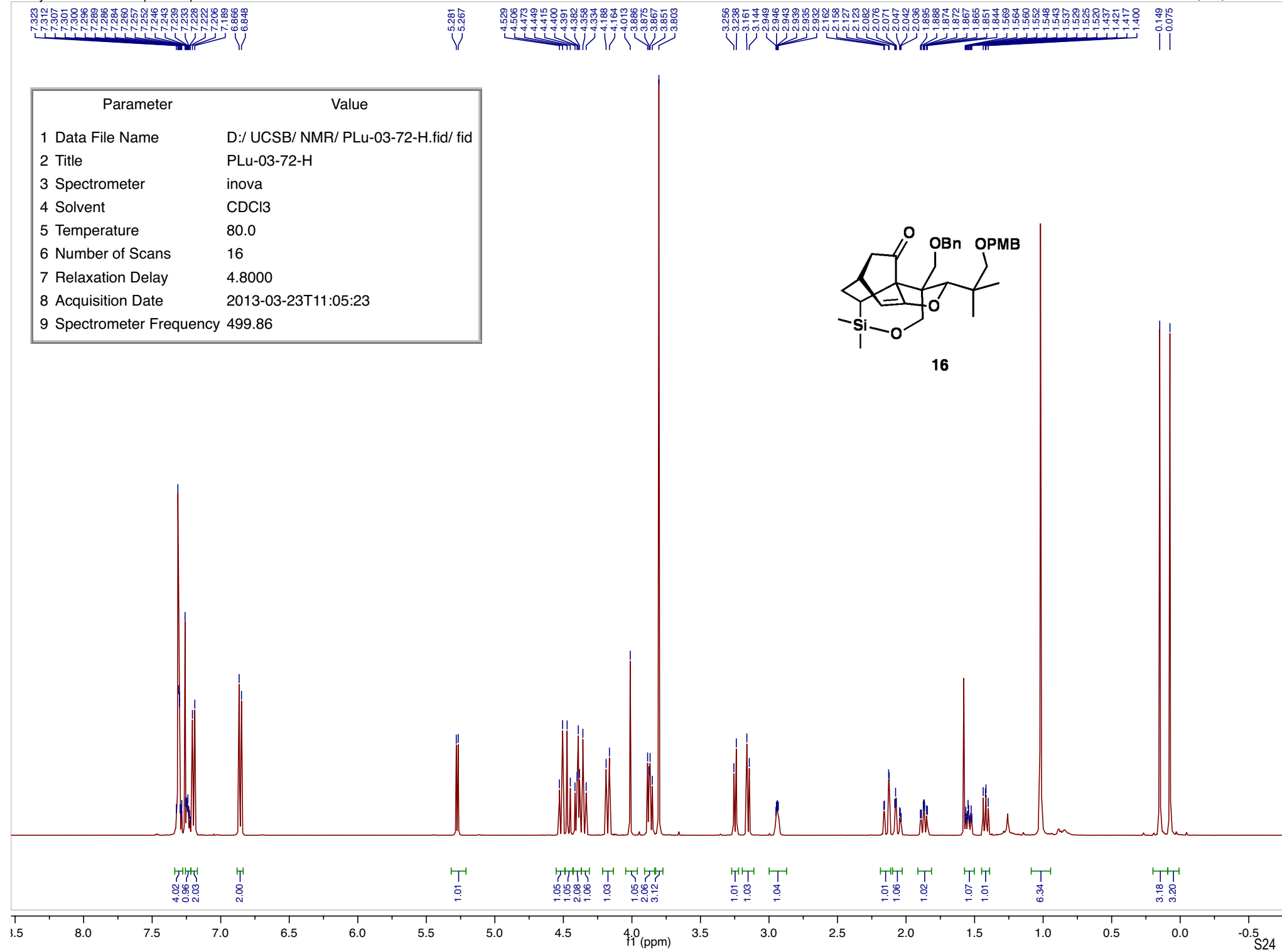


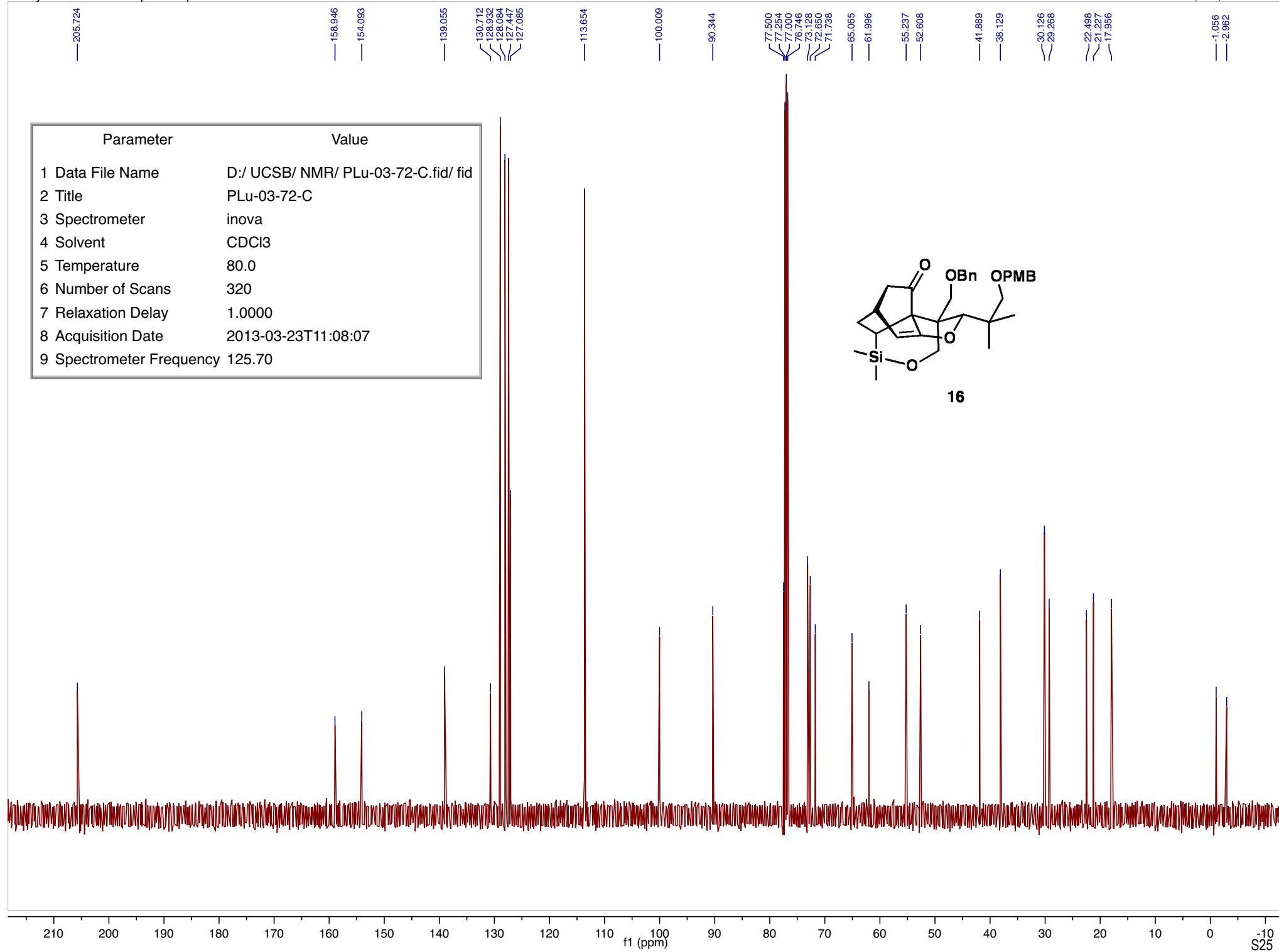


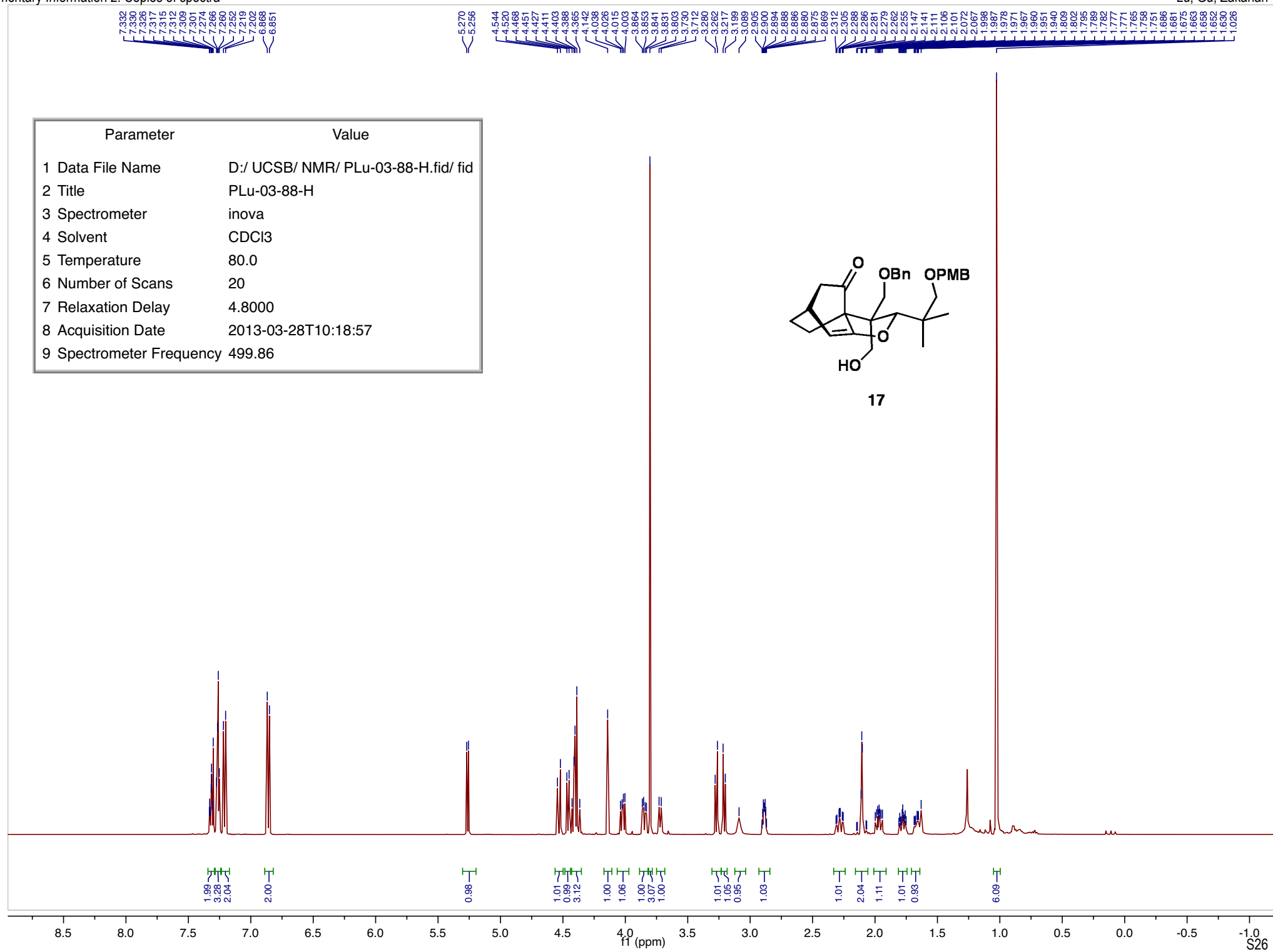
Parameter	Value
1 Data File Name	D:/ UCSB/ NMR/ PLu-03-25-H.fid/ fid
2 Title	PLu-03-25-H
3 Spectrometer	inova
4 Solvent	cdcl3
5 Temperature	25.0
6 Number of Scans	16
7 Relaxation Delay	4.8000
8 Acquisition Date	2013-03-04T22:57:00
9 Spectrometer Frequency	599.64

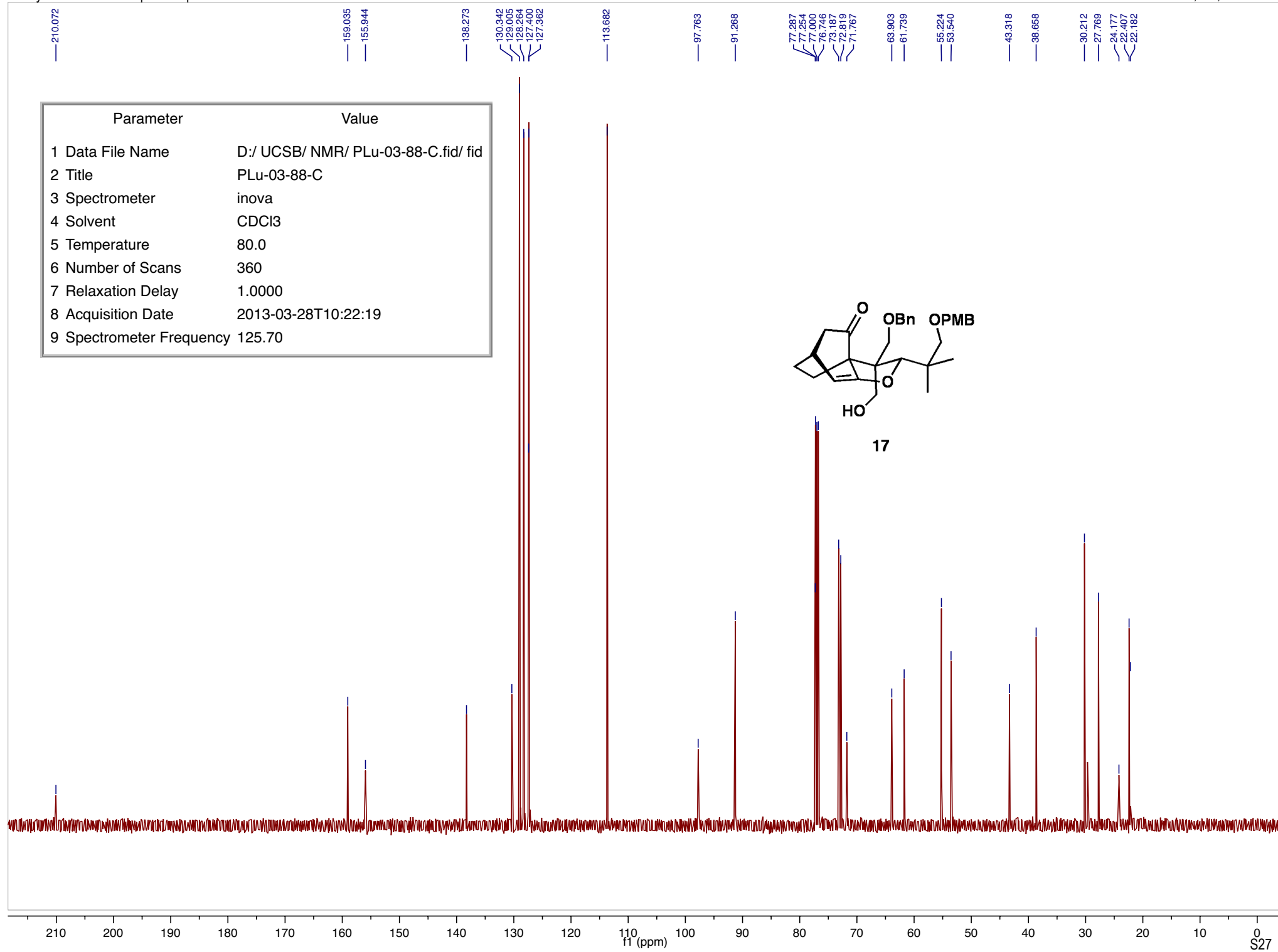




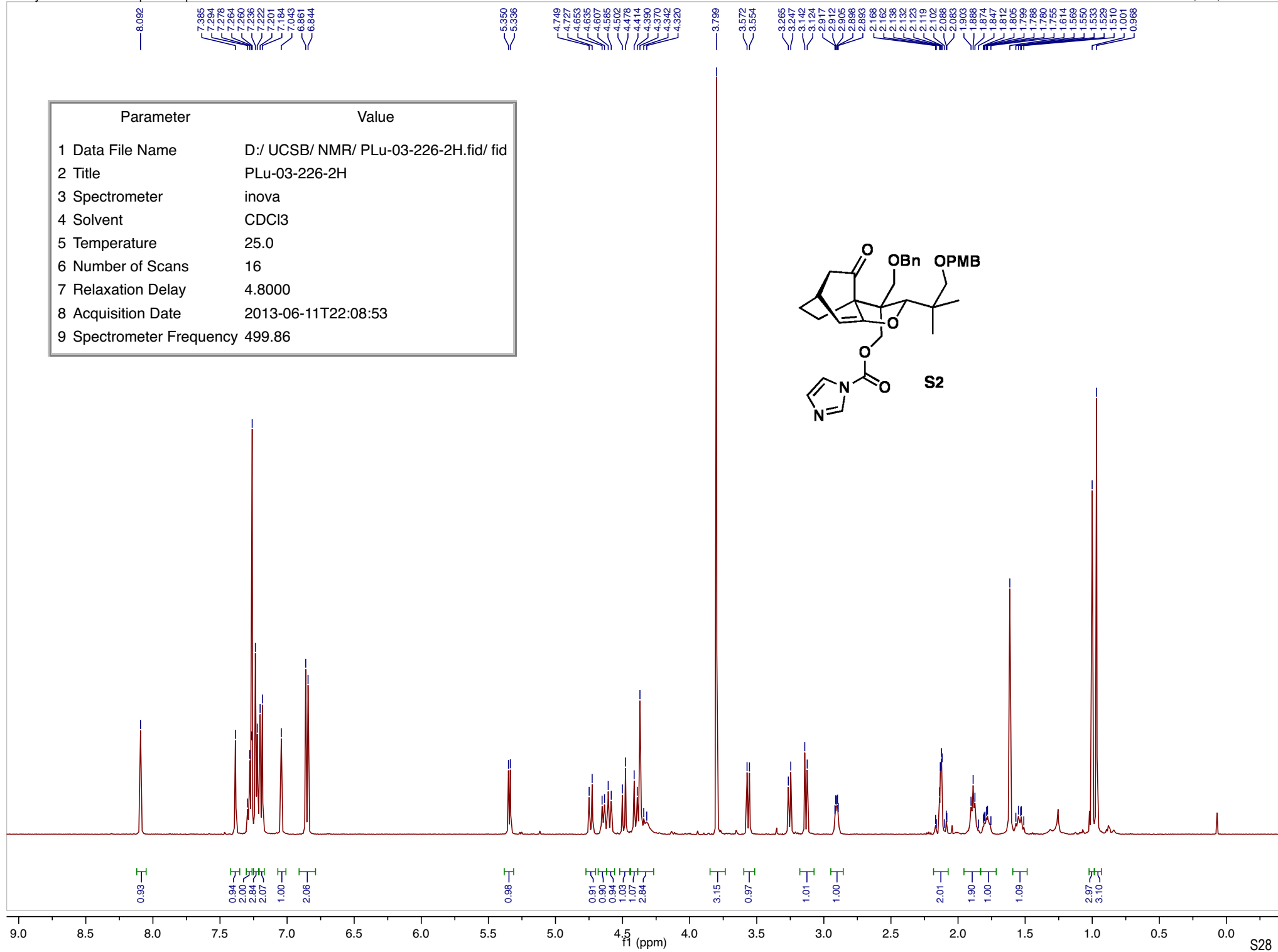
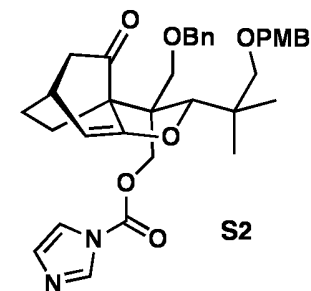


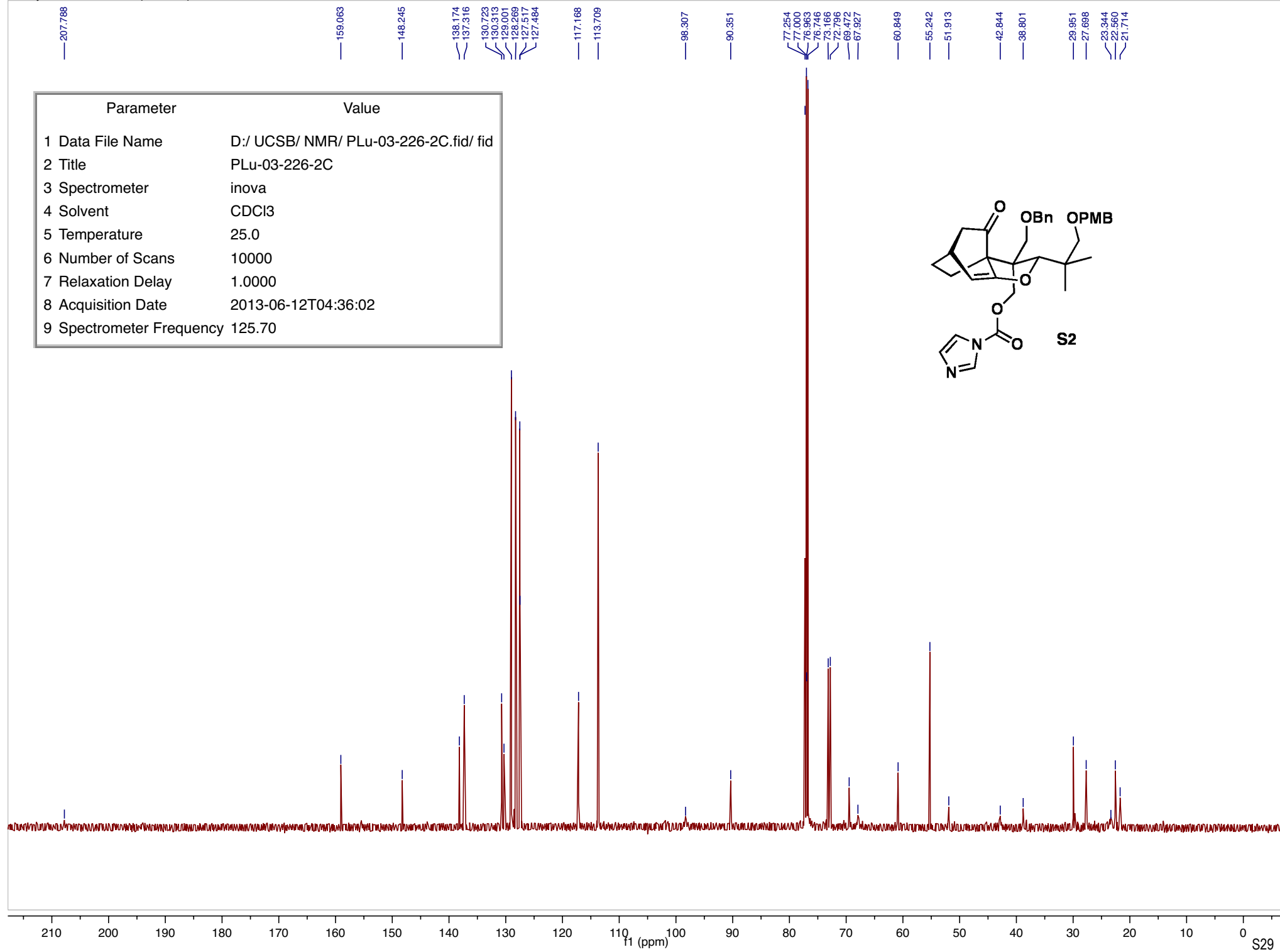




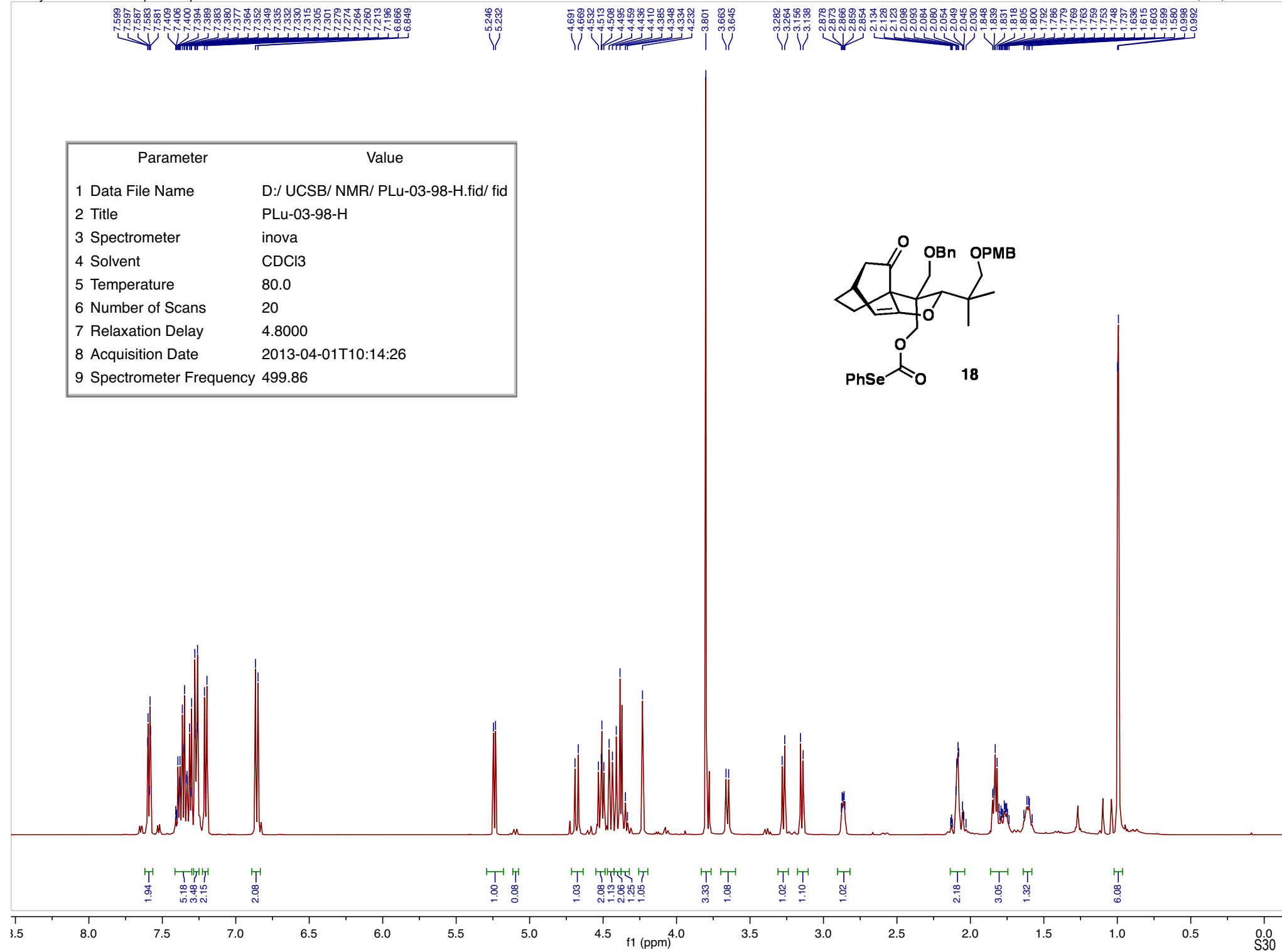
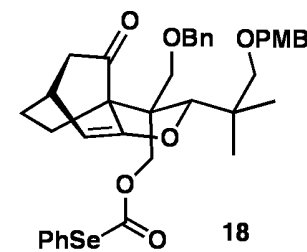


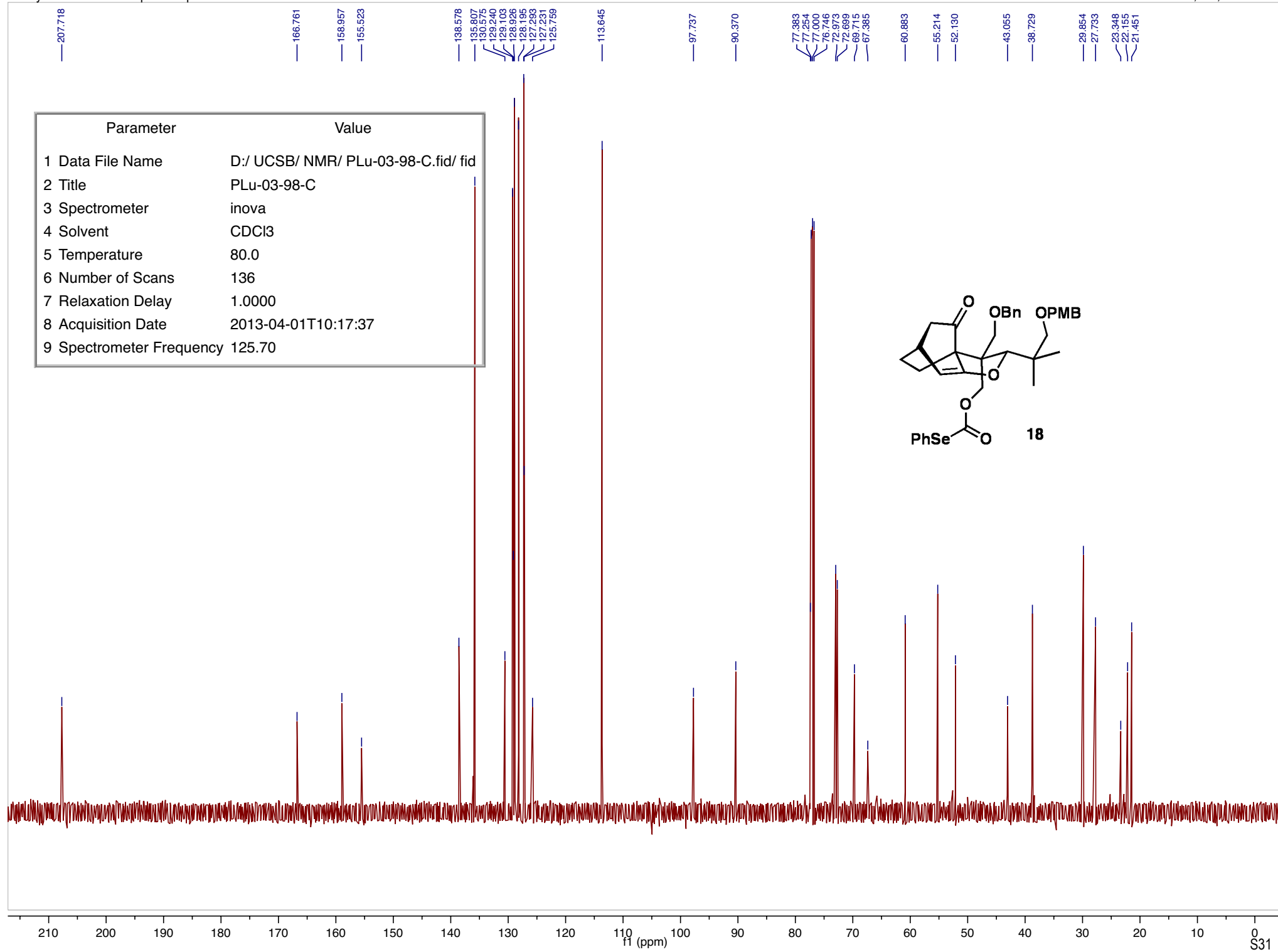
Parameter	Value
1 Data File Name	D:/ UCSB/ NMR/ PLu-03-226-2H.fid/ fid
2 Title	PLu-03-226-2H
3 Spectrometer	inova
4 Solvent	CDCl3
5 Temperature	25.0
6 Number of Scans	16
7 Relaxation Delay	4.8000
8 Acquisition Date	2013-06-11T22:08:53
9 Spectrometer Frequency	499.86



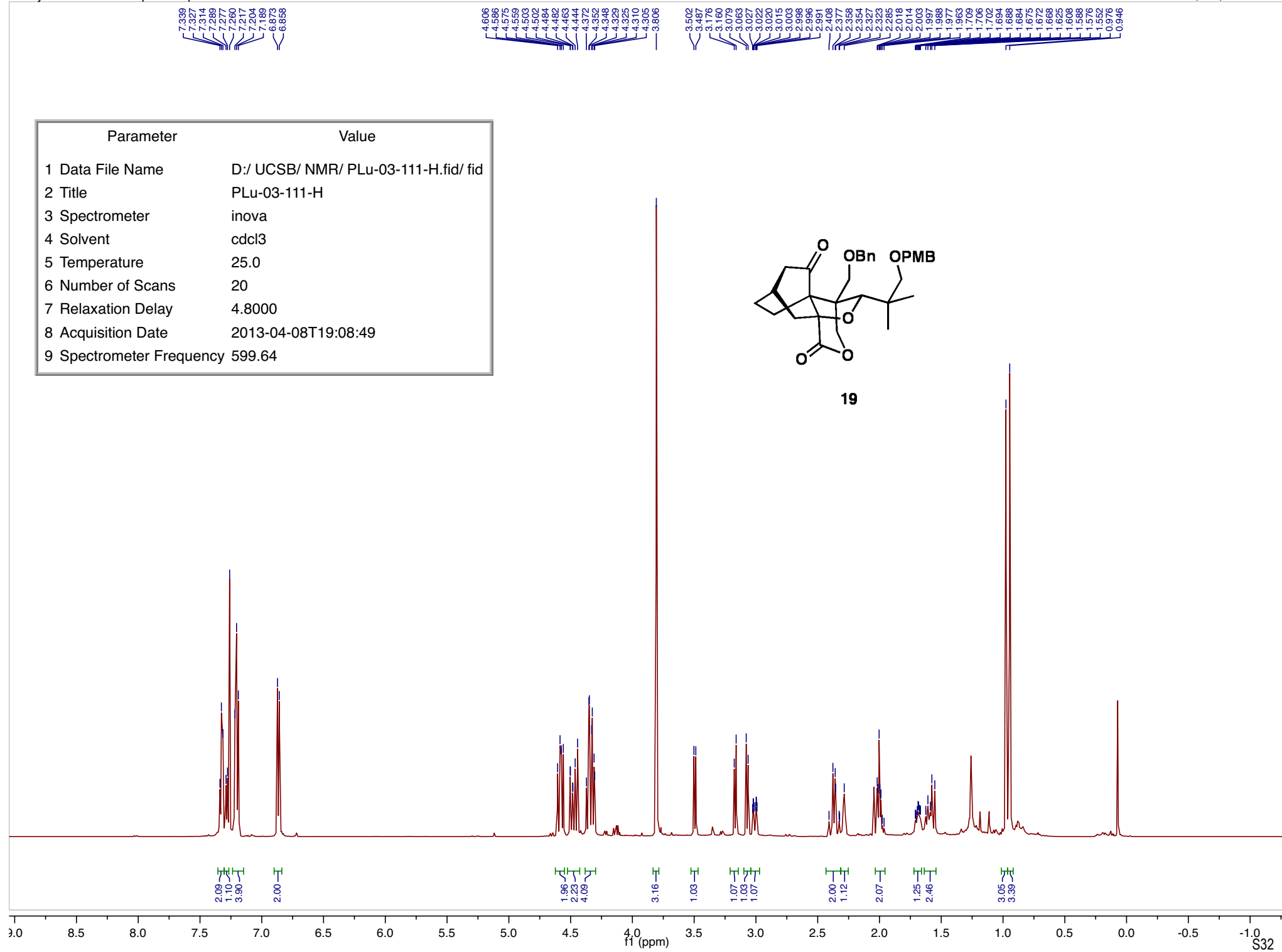
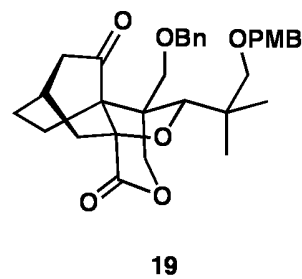


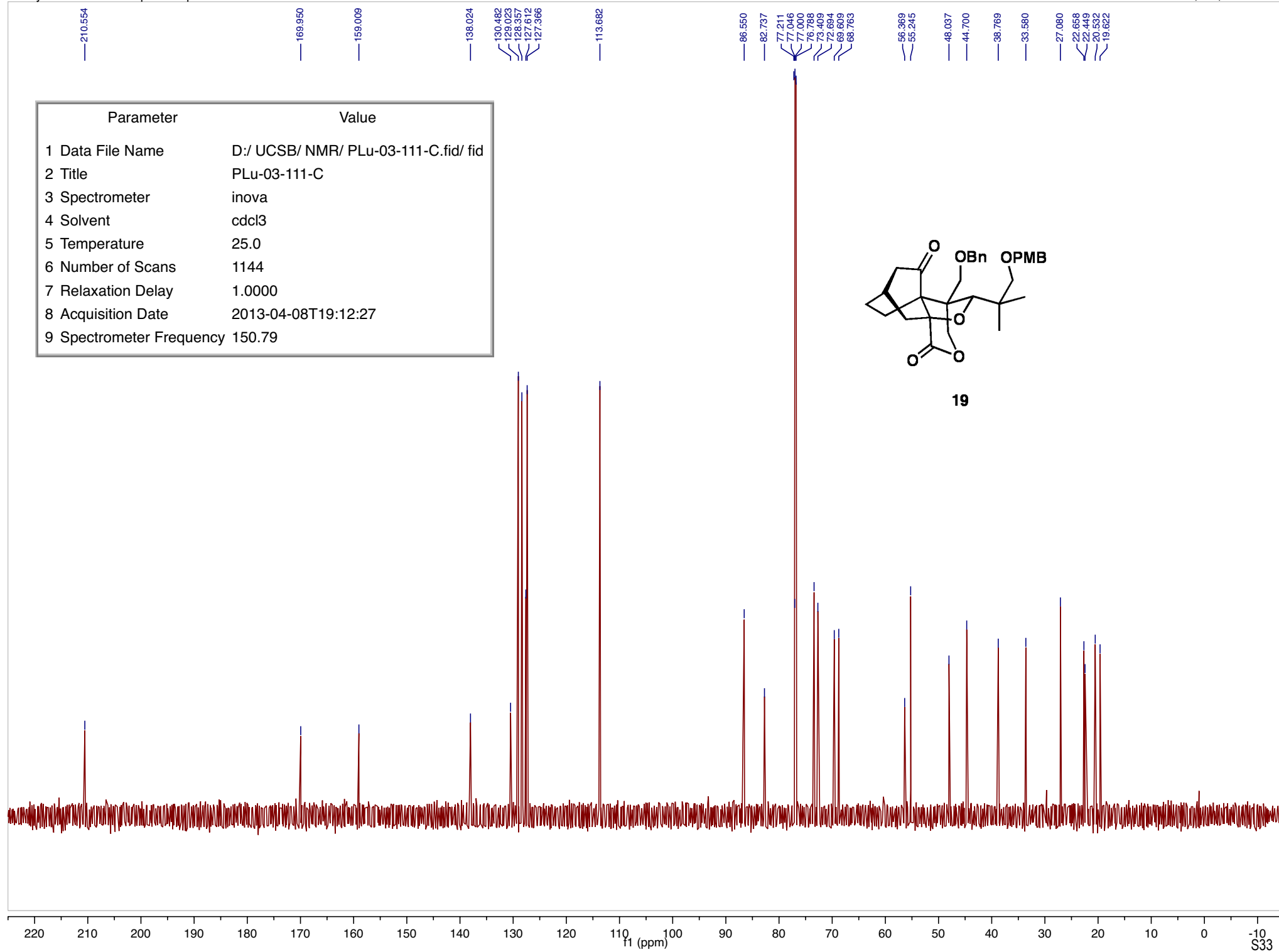
Parameter	Value
1 Data File Name	D:/ UCSB/ NMR/ PLu-03-98-H.fid/ fid
2 Title	PLu-03-98-H
3 Spectrometer	inova
4 Solvent	CDCl ₃
5 Temperature	80.0
6 Number of Scans	20
7 Relaxation Delay	4.8000
8 Acquisition Date	2013-04-01T10:14:26
9 Spectrometer Frequency	499.86



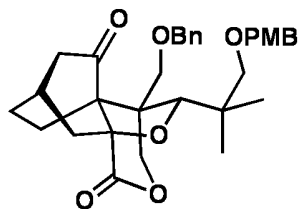


Parameter	Value
1 Data File Name	D:/ UCSB/ NMR/ PLu-03-111-H.fid/ fid
2 Title	PLu-03-111-H
3 Spectrometer	inova
4 Solvent	cdcl3
5 Temperature	25.0
6 Number of Scans	20
7 Relaxation Delay	4.8000
8 Acquisition Date	2013-04-08T19:08:49
9 Spectrometer Frequency	599.64

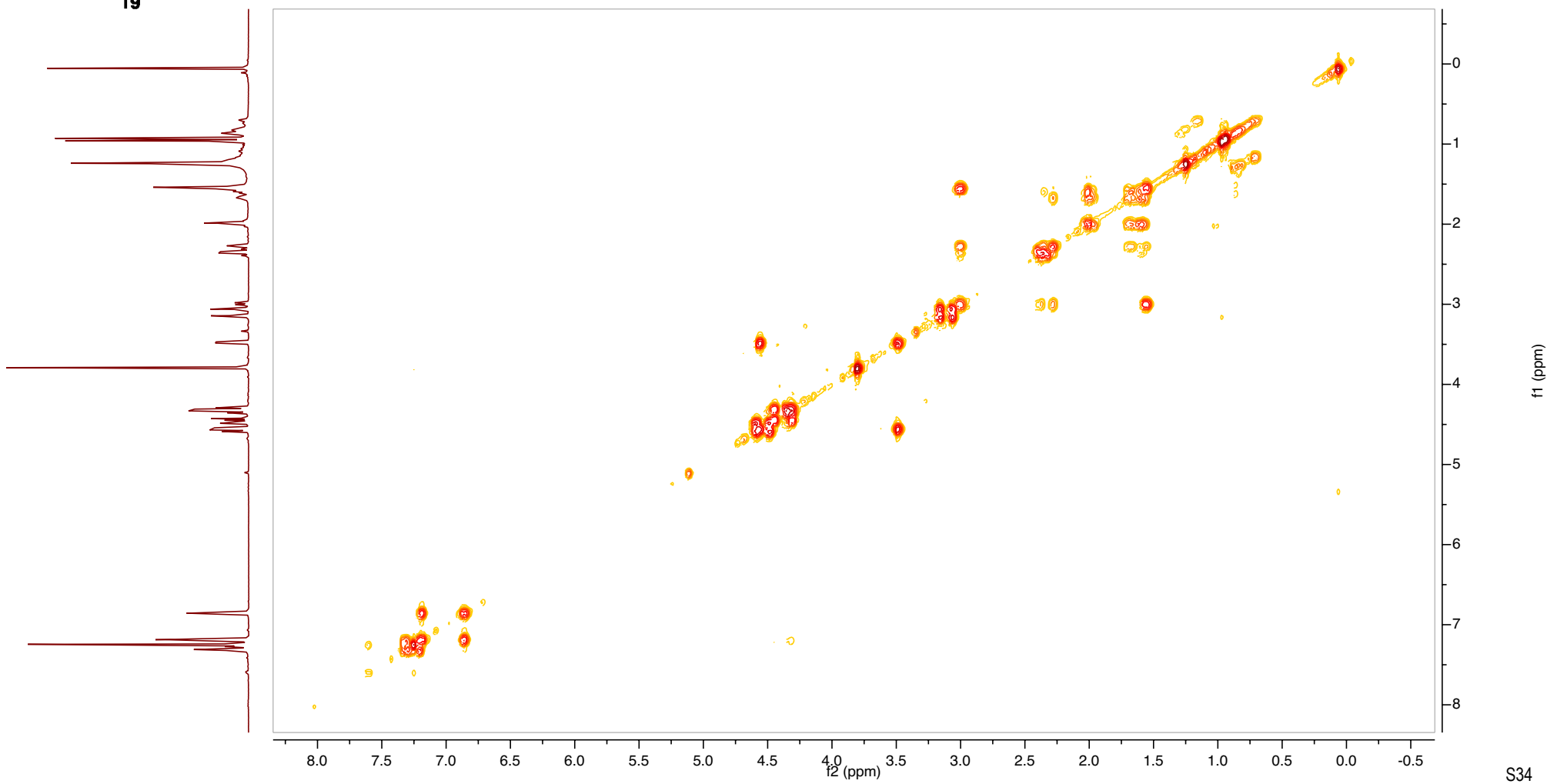




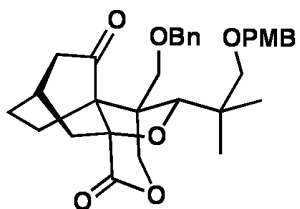
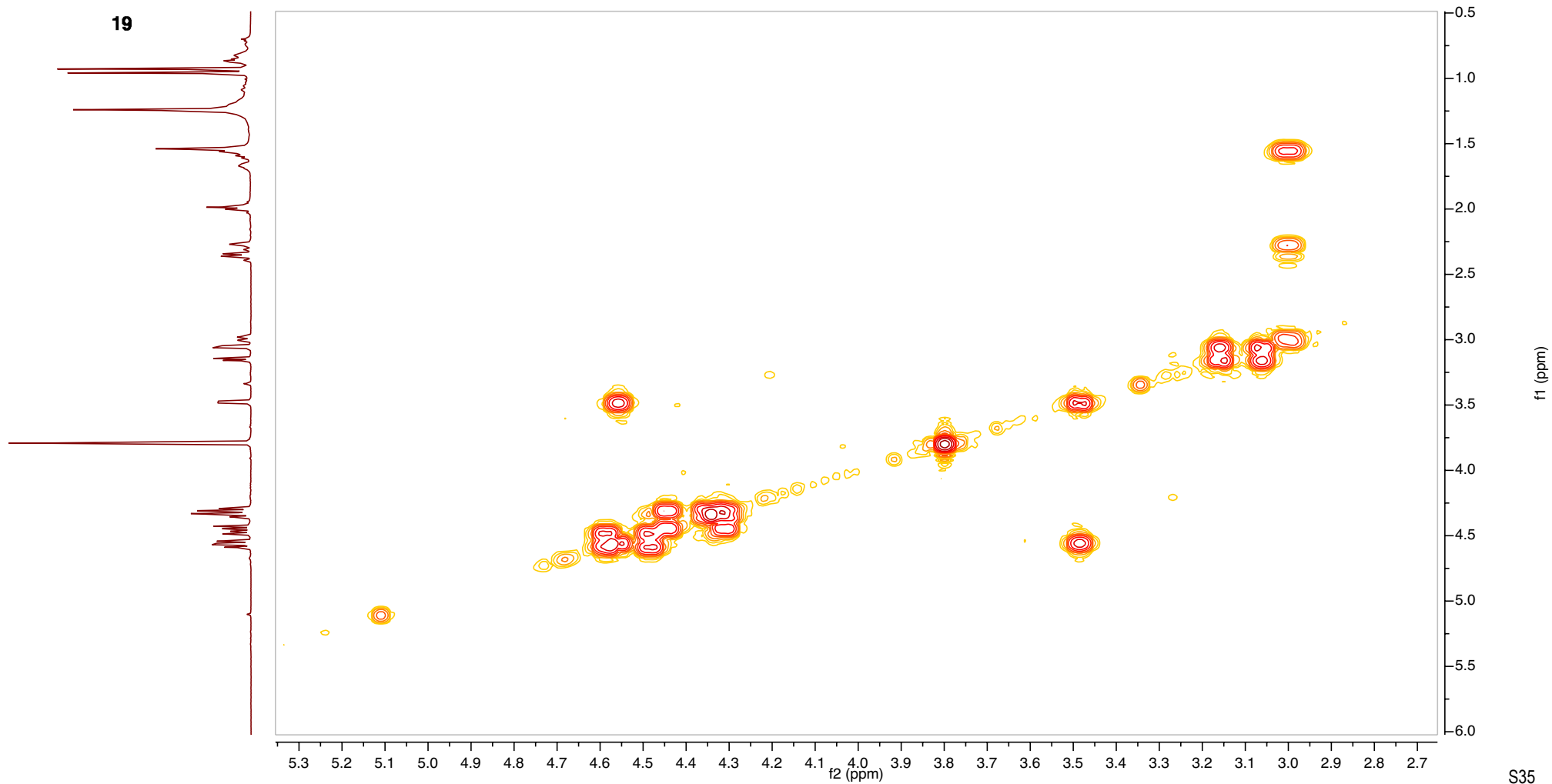
Parameter	Value (f2, f1)
Title	PLu-03-61-cosy
Solvent	cdcl3
Temperature	25.0
Spectrometer Frequency	(599.63, 599.63)



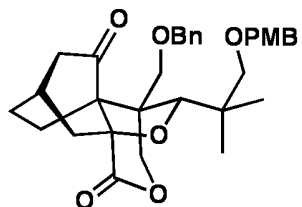
19



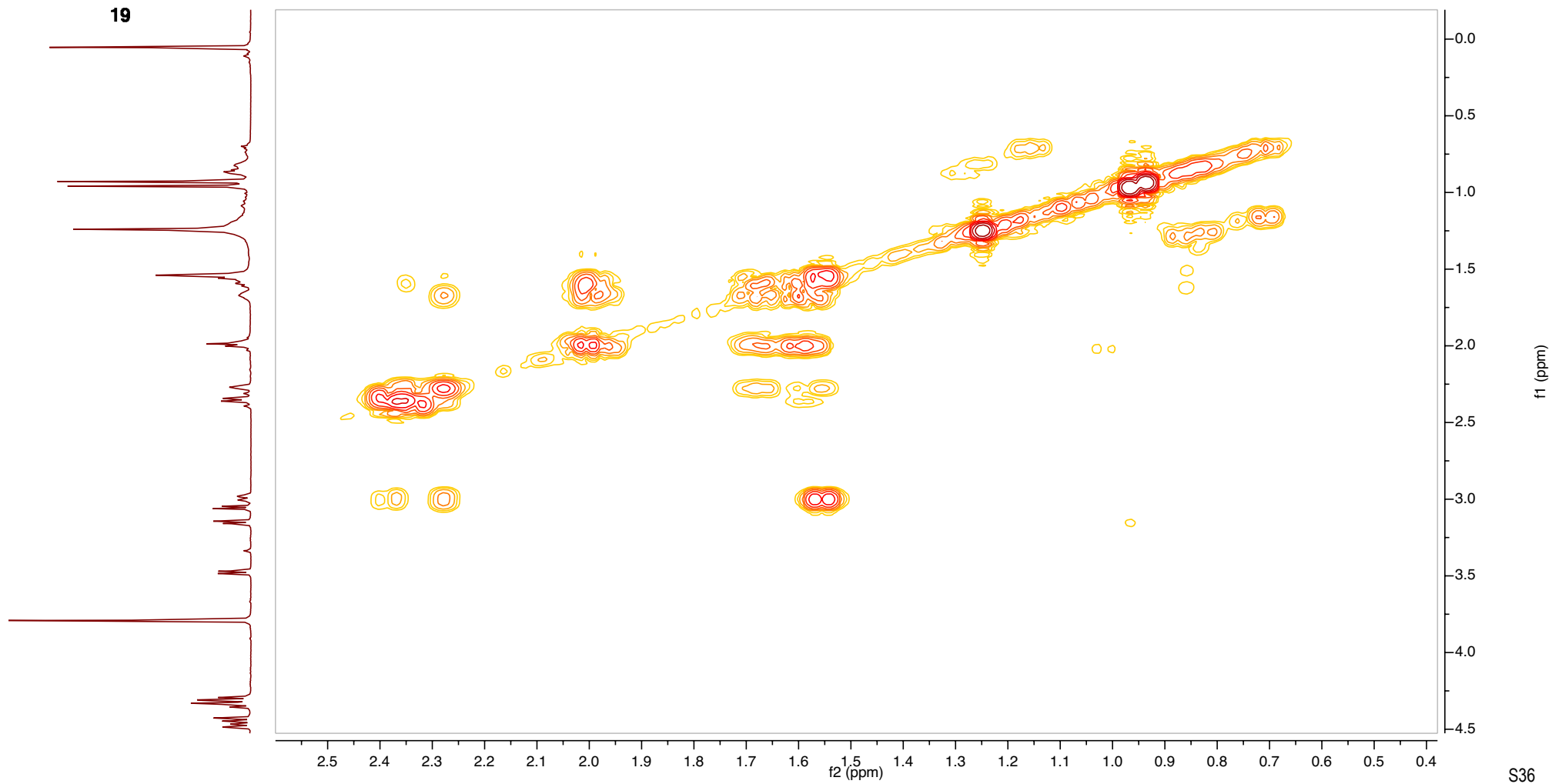
Parameter	Value (f2, f1)
Title	PLu-03-61-cosy
Solvent	cdcl3
Temperature	25.0
Spectrometer Frequency	(599.63, 599.63)

**19**

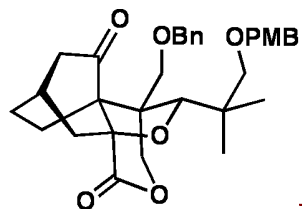
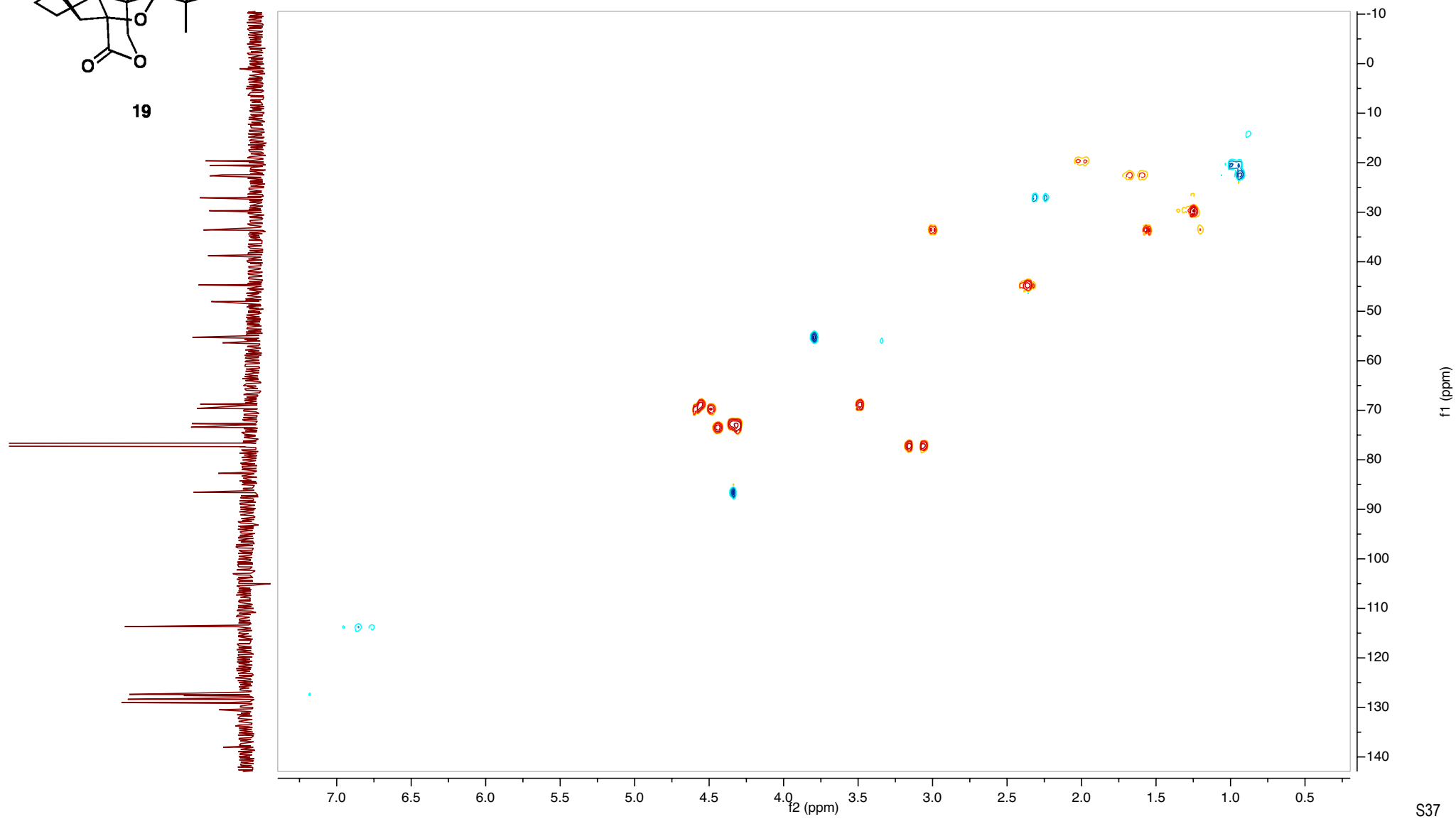
Parameter	Value (f2, f1)
Title	PLu-03-61-cosy
Solvent	cdcl3
Temperature	25.0
Spectrometer Frequency	(599.63, 599.63)



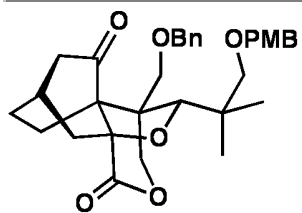
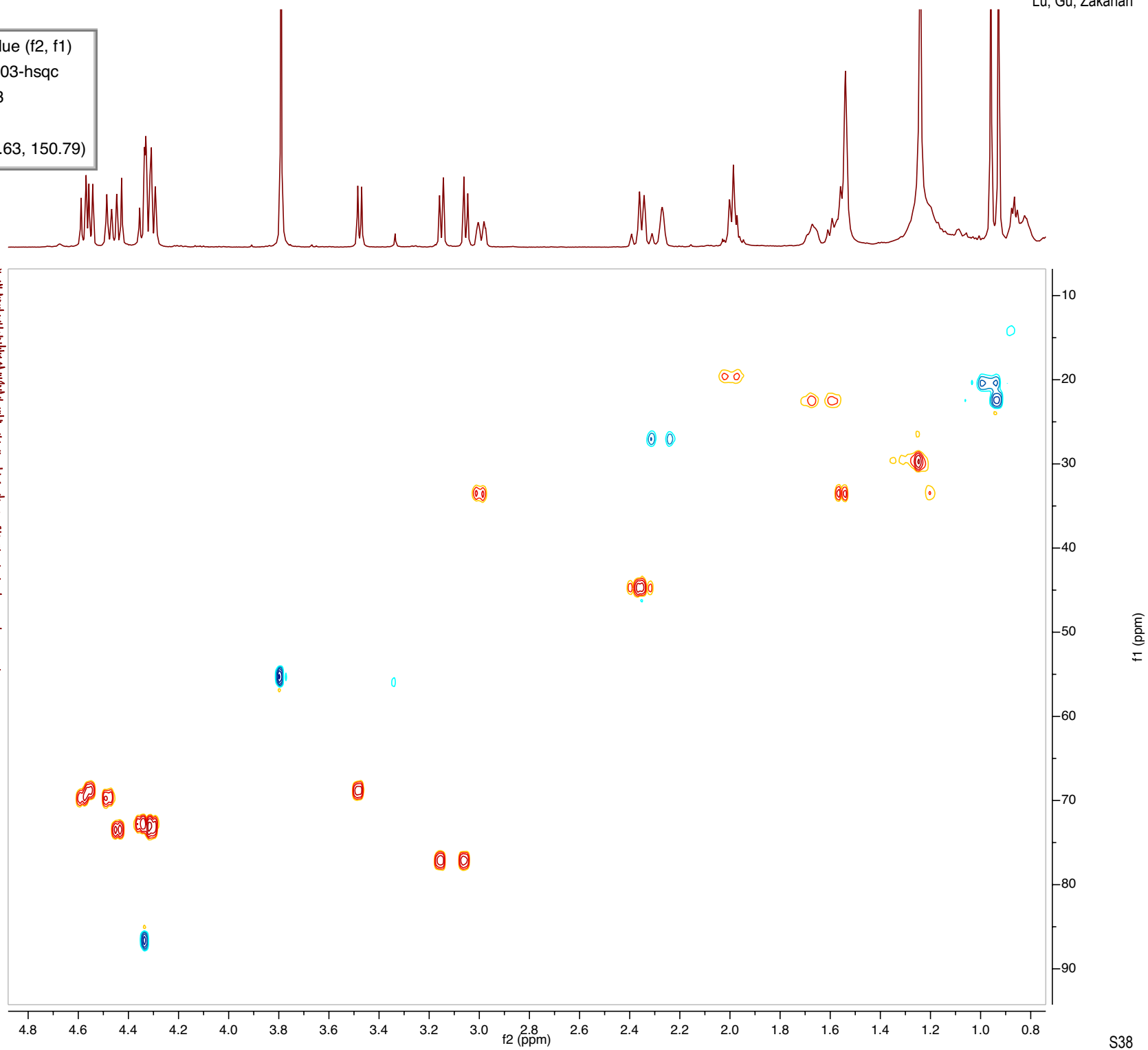
19



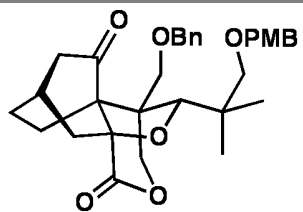
Parameter	Value (f2, f1)
Title	PLu-03-hsqc
Solvent	cdcl3
Temperature	25.0
Spectrometer Frequency	(599.63, 150.79)

**19**

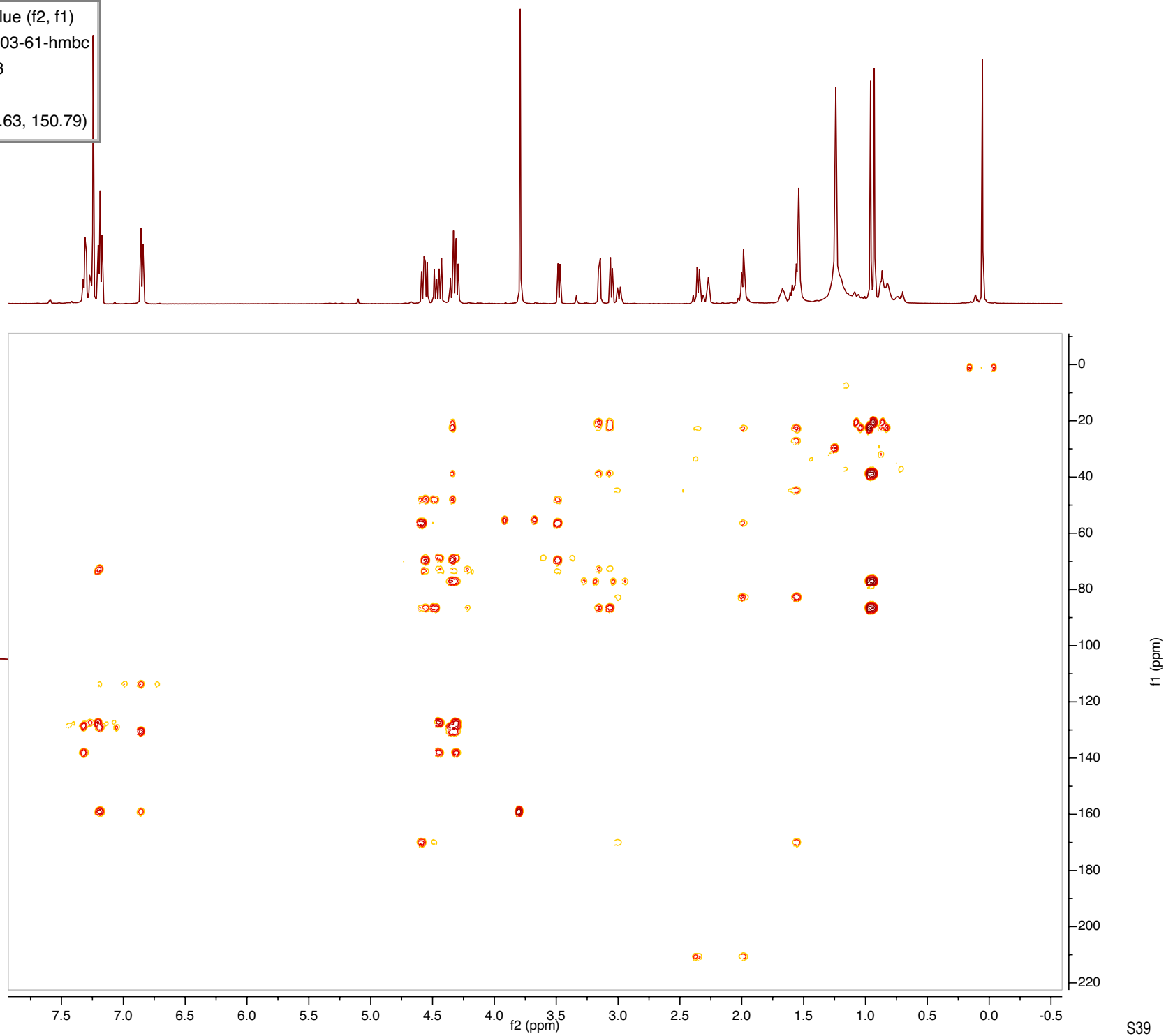
Parameter	Value (f2, f1)
Title	PLu-03-hsqc
Solvent	cdcl3
Temperature	25.0
Spectrometer Frequency	(599.63, 150.79)

**19**

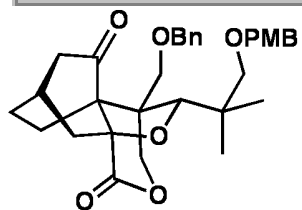
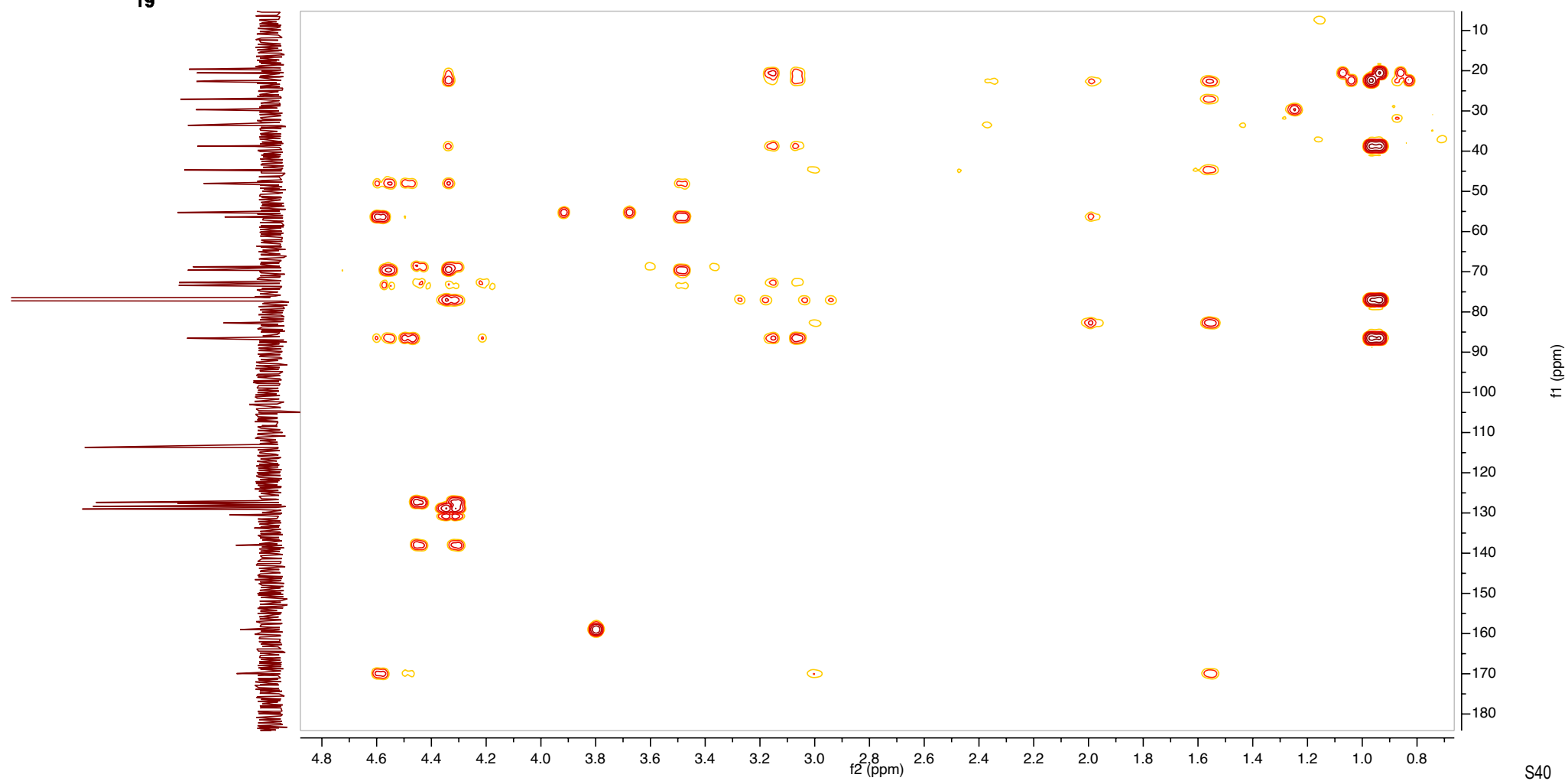
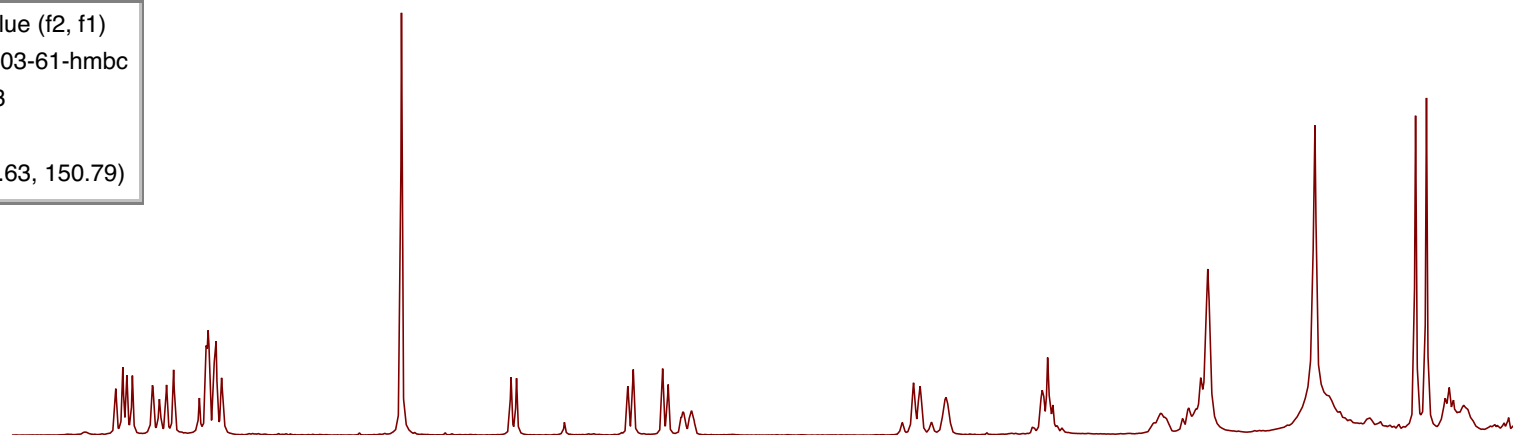
Parameter	Value (f2, f1)
Title	PLu-03-61-hmbc
Solvent	cdcl3
Temperature	25.0
Spectrometer Frequency	(599.63, 150.79)



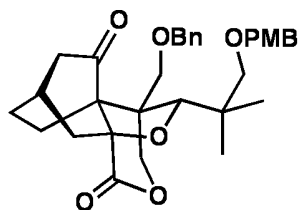
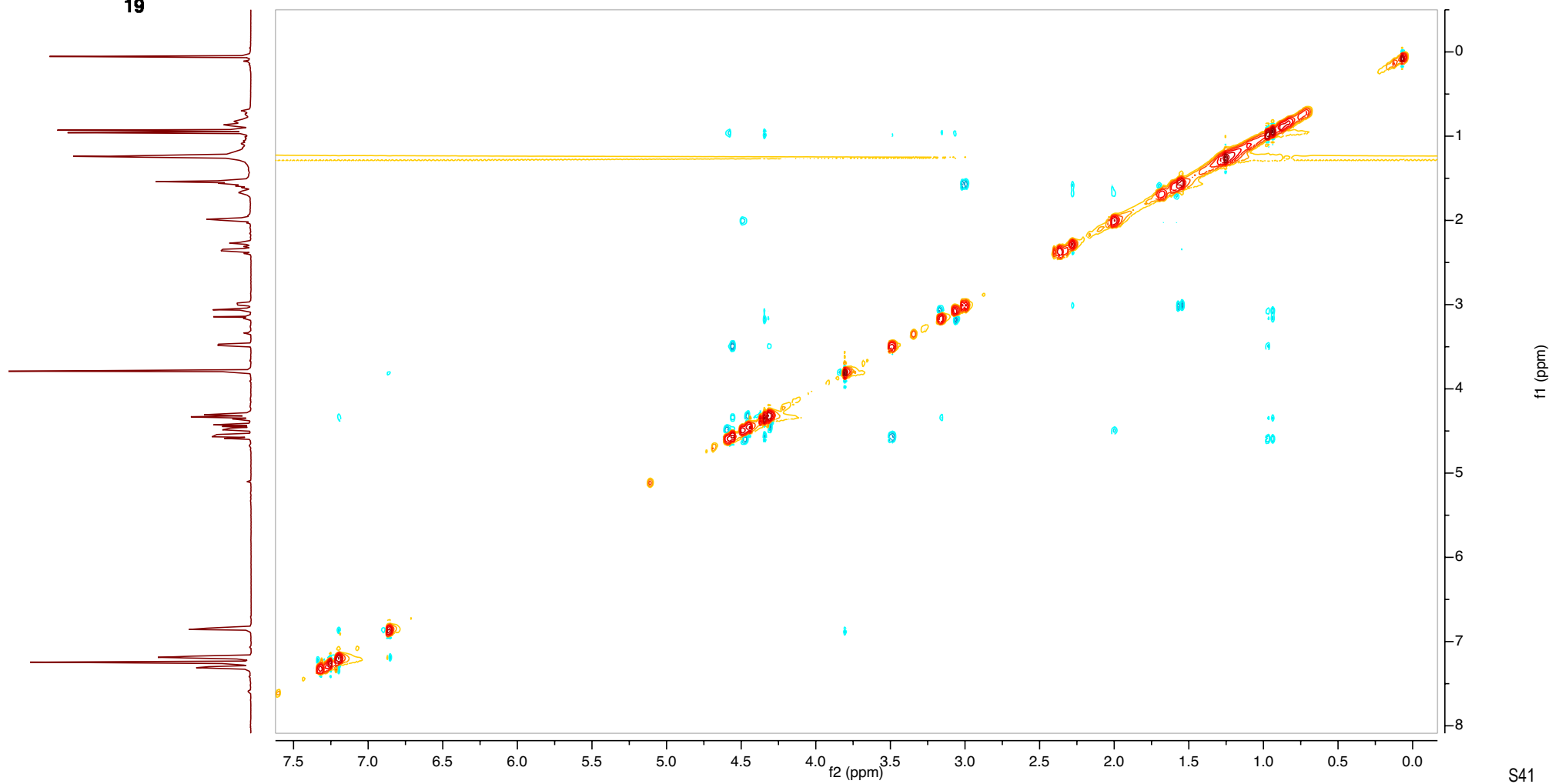
19



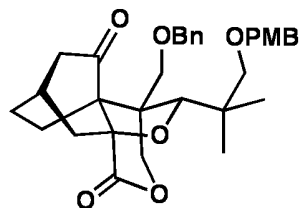
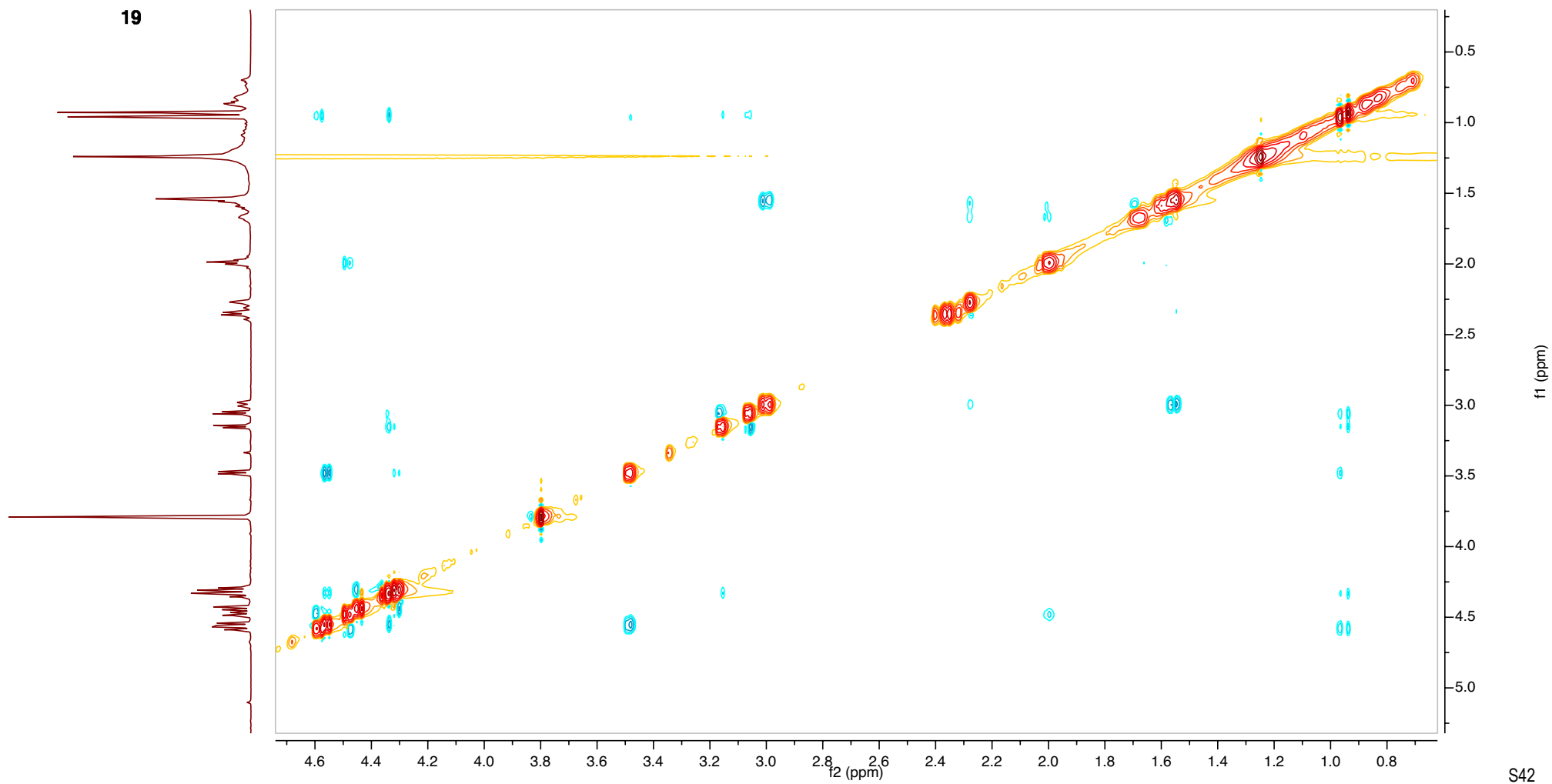
Parameter	Value (f2, f1)
Title	PLu-03-61-hmbc
Solvent	cdcl3
Temperature	25.0
Spectrometer Frequency	(599.63, 150.79)

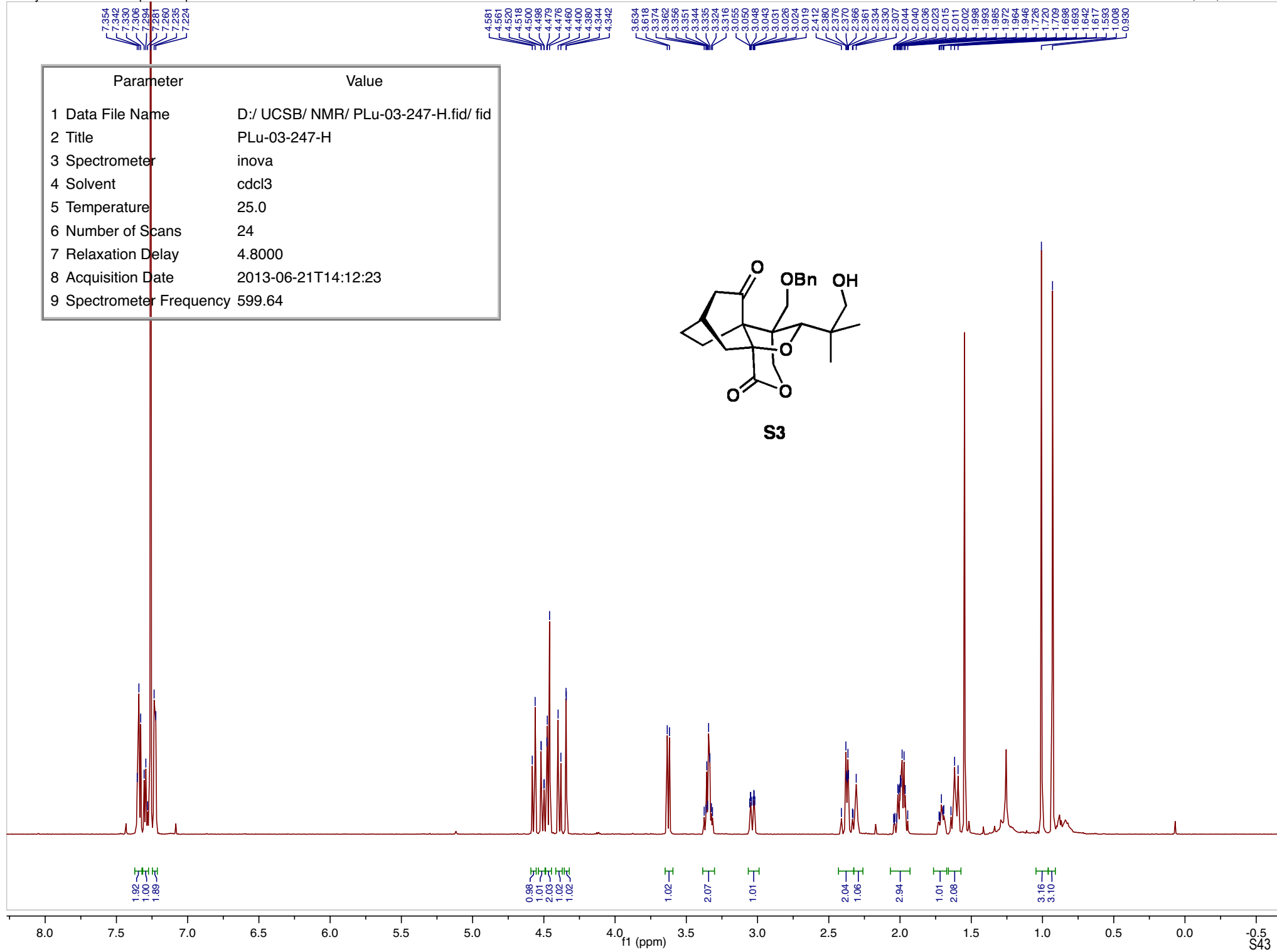
**19**

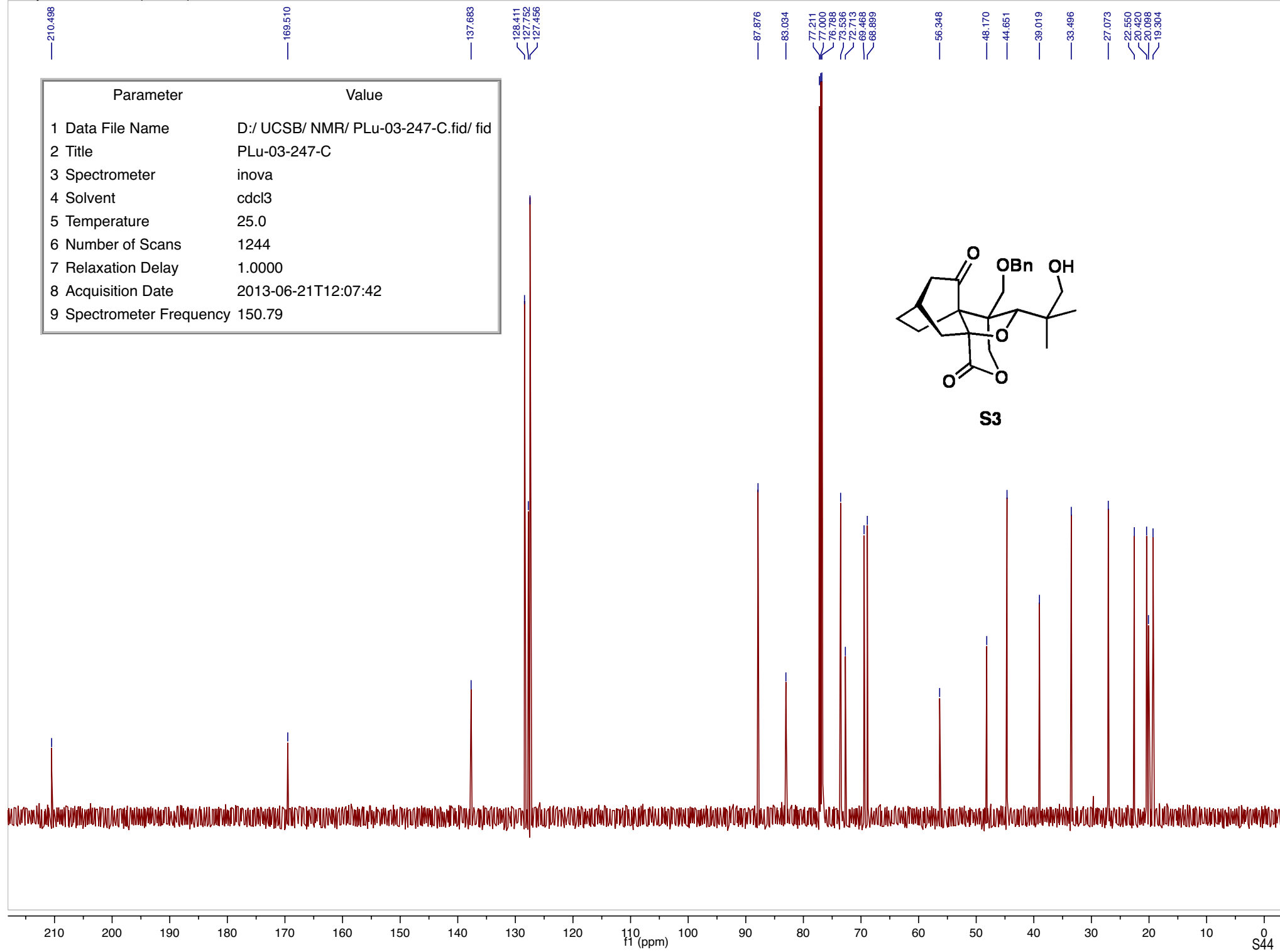
Parameter	Value (f2, f1)
Title	PLu-03-61-NOESY
Solvent	cdcl3
Temperature	25.0
Spectrometer Frequency	(599.63, 599.63)

**19**

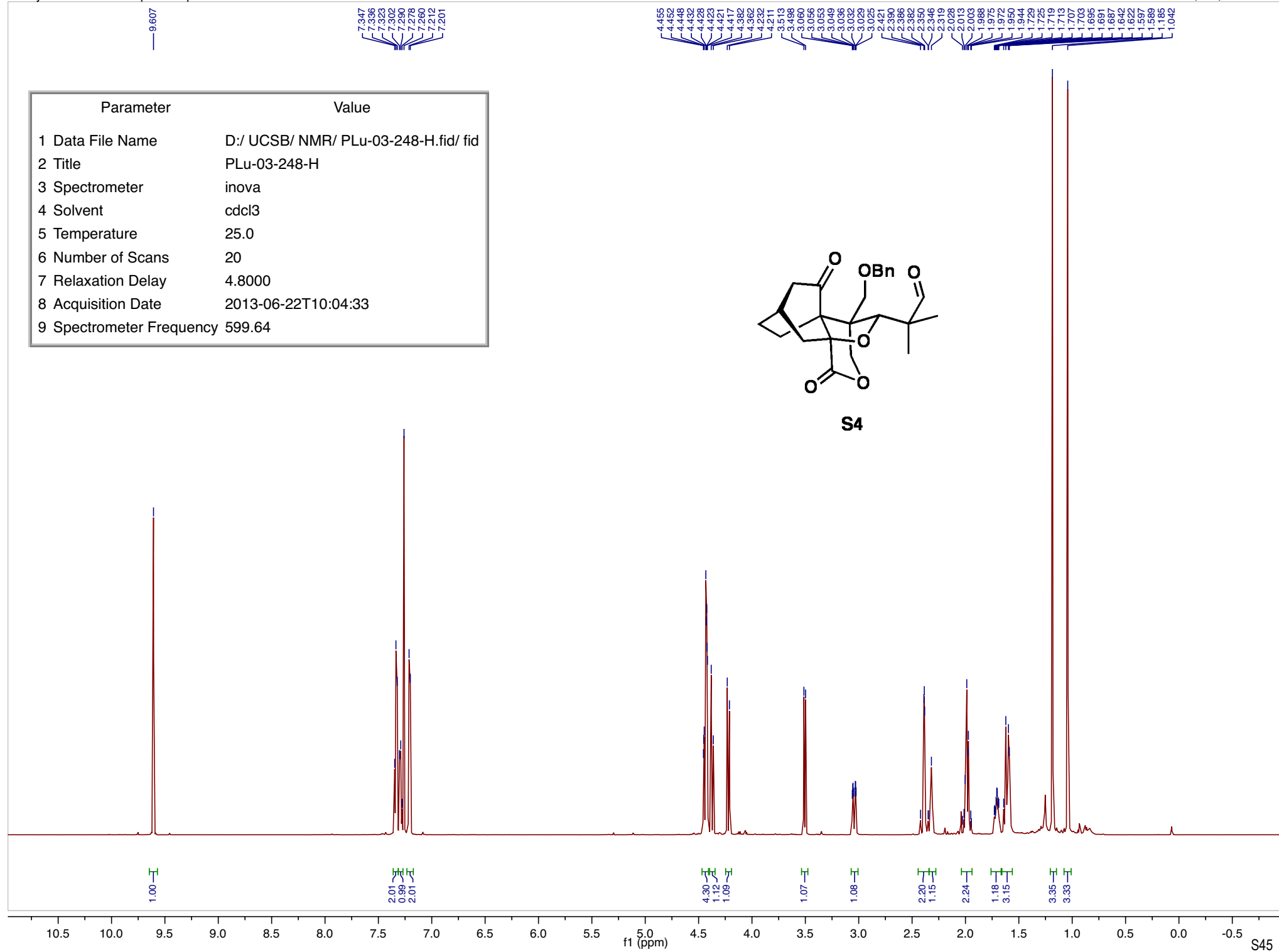
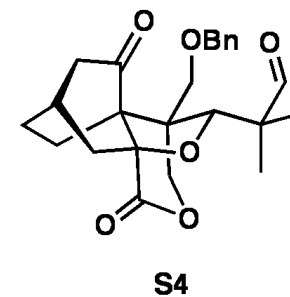
Parameter	Value (f2, f1)
Title	PLu-03-61-NOESY
Solvent	cdcl3
Temperature	25.0
Spectrometer Frequency	(599.63, 599.63)

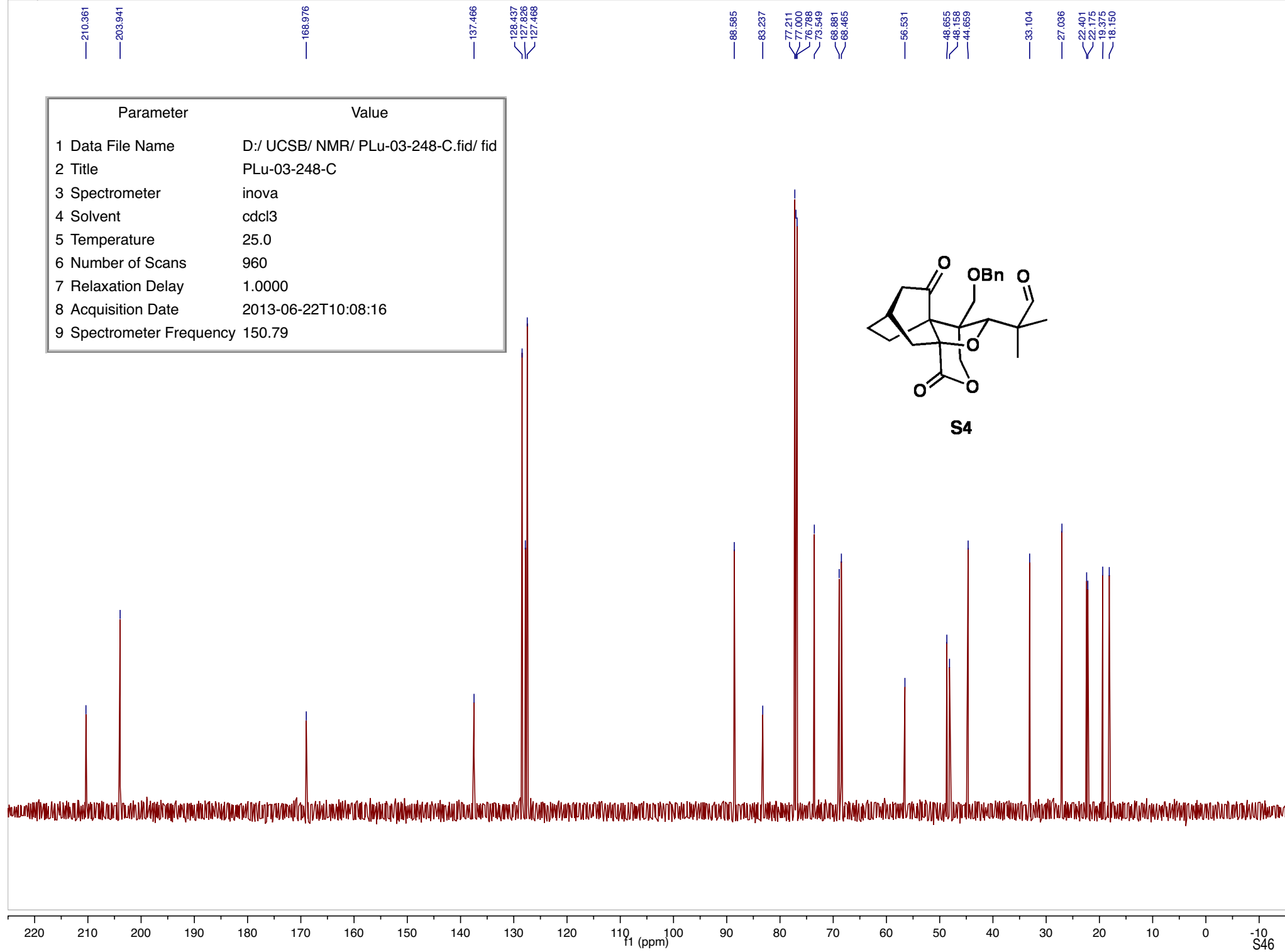
**19**





Parameter	Value
1 Data File Name	D:/ UCSB/ NMR/ P Lu-03-248-H.fid/ fid
2 Title	PLu-03-248-H
3 Spectrometer	inova
4 Solvent	cdcl3
5 Temperature	25.0
6 Number of Scans	20
7 Relaxation Delay	4.8000
8 Acquisition Date	2013-06-22T10:04:33
9 Spectrometer Frequency	599.64





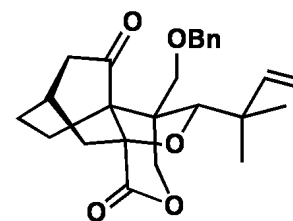
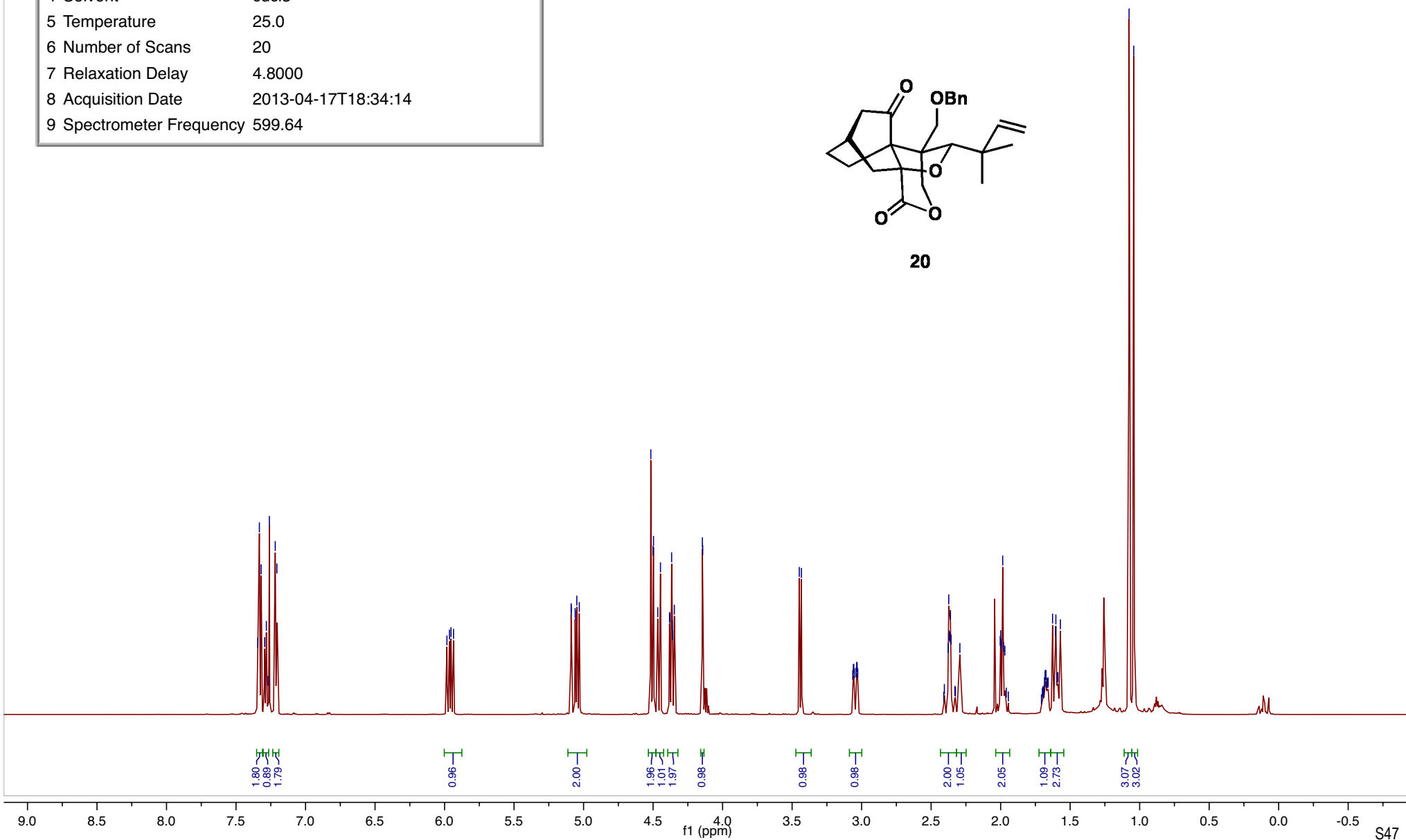
Parameter	Value
1 Data File Name	D:/ UCSB/ NMR/ PLu-03-129-H.fid/ fid
2 Title	PLu-03-129-H
3 Spectrometer	inova
4 Solvent	cdcl3
5 Temperature	25.0
6 Number of Scans	20
7 Relaxation Delay	4.8000
8 Acquisition Date	2013-04-17T18:34:14
9 Spectrometer Frequency	599.64

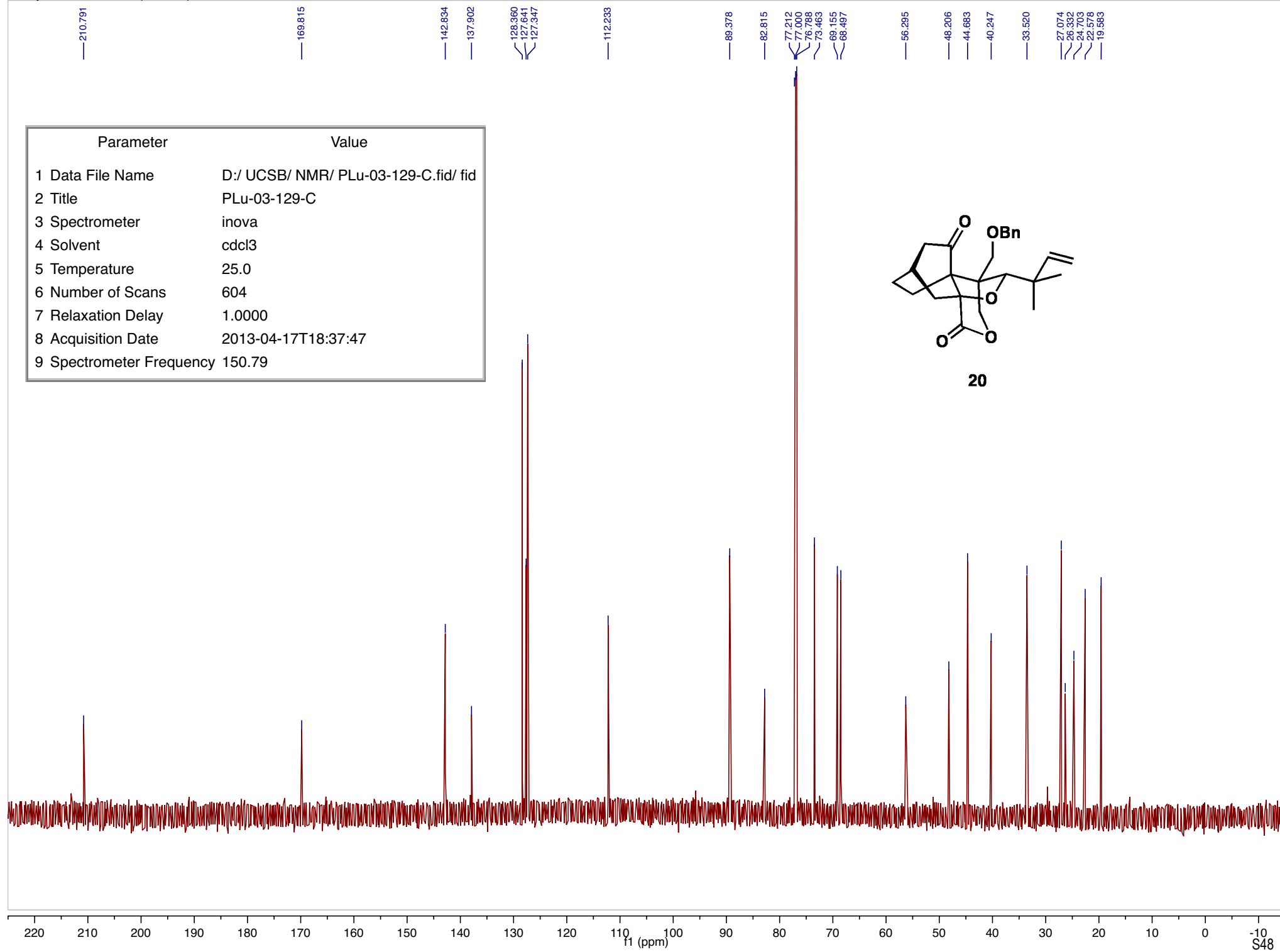
7.344
7.332
7.319
7.294
7.282
7.269
7.260
7.218
7.206

5.983
5.965
5.953
5.935

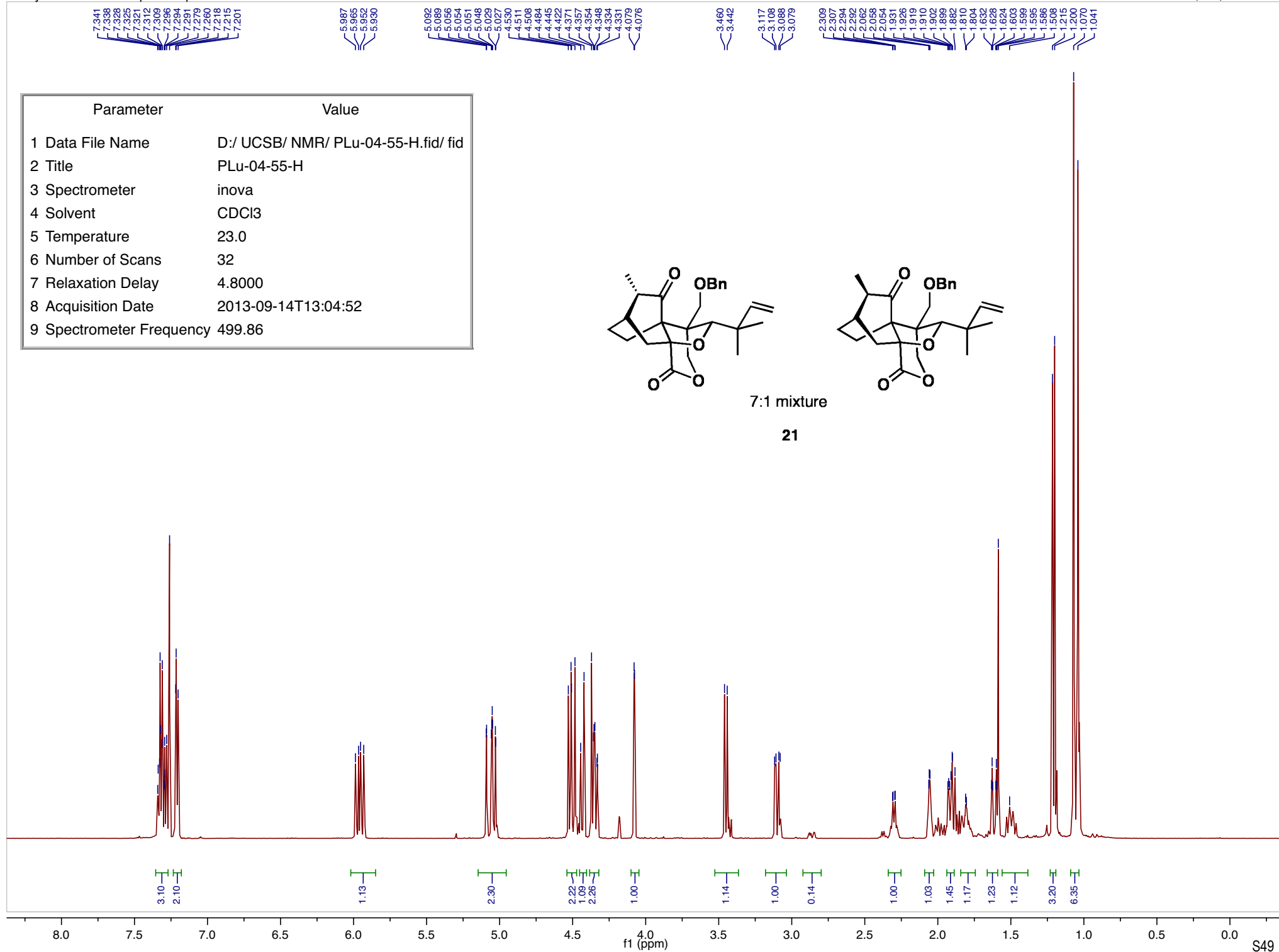
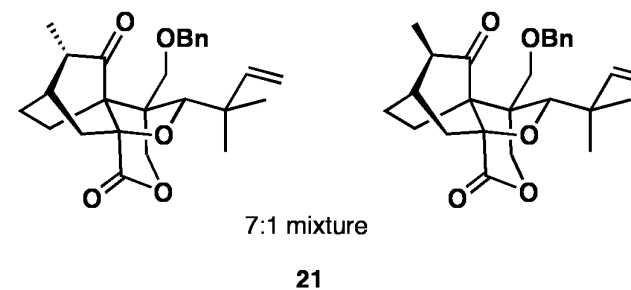
5.090
5.088
5.060
5.059
5.049
5.031
4.516
4.501
4.497
4.466
4.447
4.382
4.379
4.367
4.362
4.360
4.347
4.145
4.143

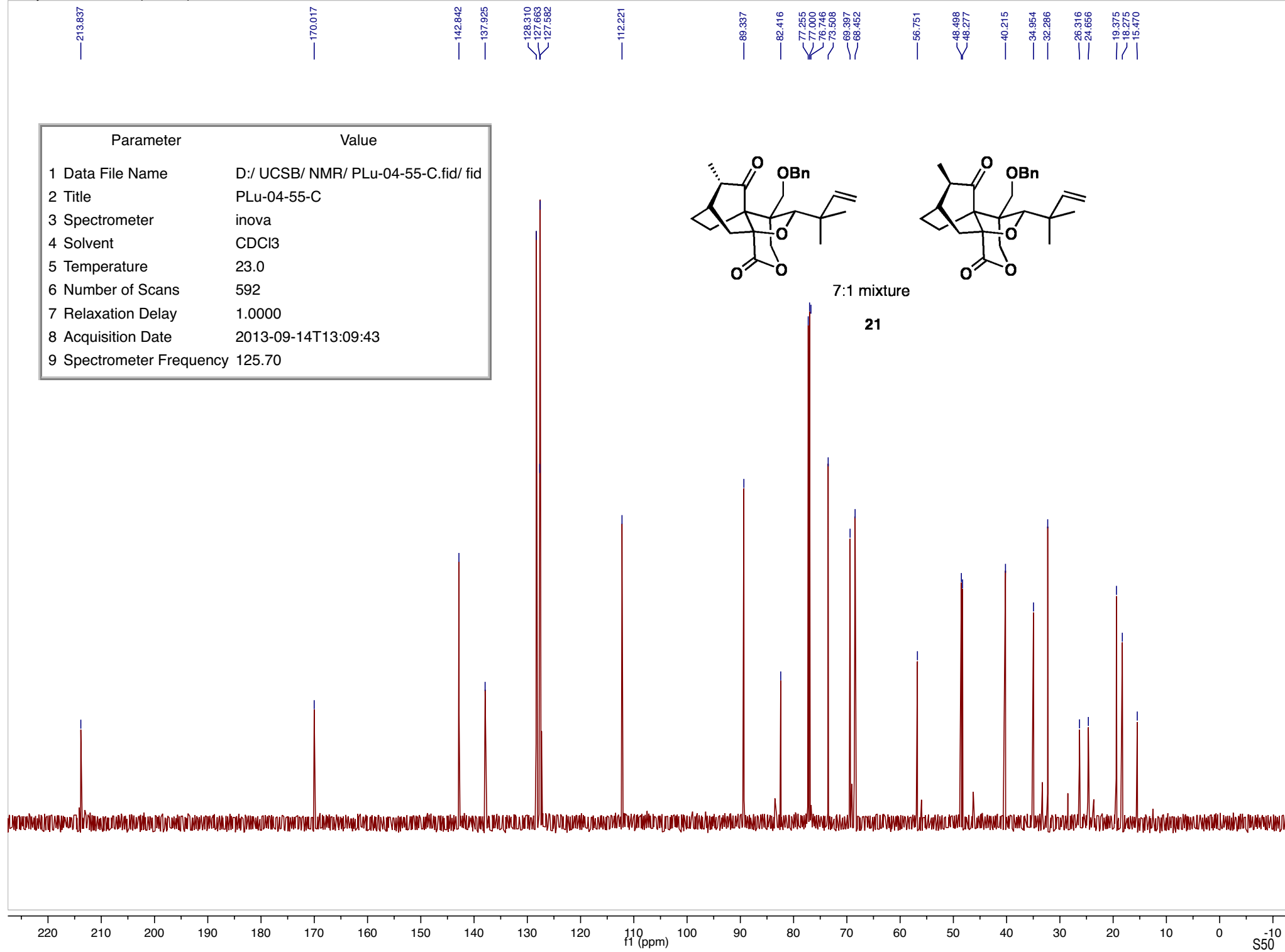
3.448
3.433
3.064
3.056
3.052
3.040
3.035
3.032
3.028
2.409
2.405
2.377
2.373
2.368
2.365
2.361
2.357
2.329
2.293
2.285
2.003
2.000
1.997
1.985
1.980
1.970
1.959
1.945
1.706
1.700
1.696
1.692
1.688
1.684
1.680
1.678
1.674
1.668
1.665
1.662
1.658
1.626
1.605
1.603
1.594
1.590
1.588
1.570
1.1076
1.1042

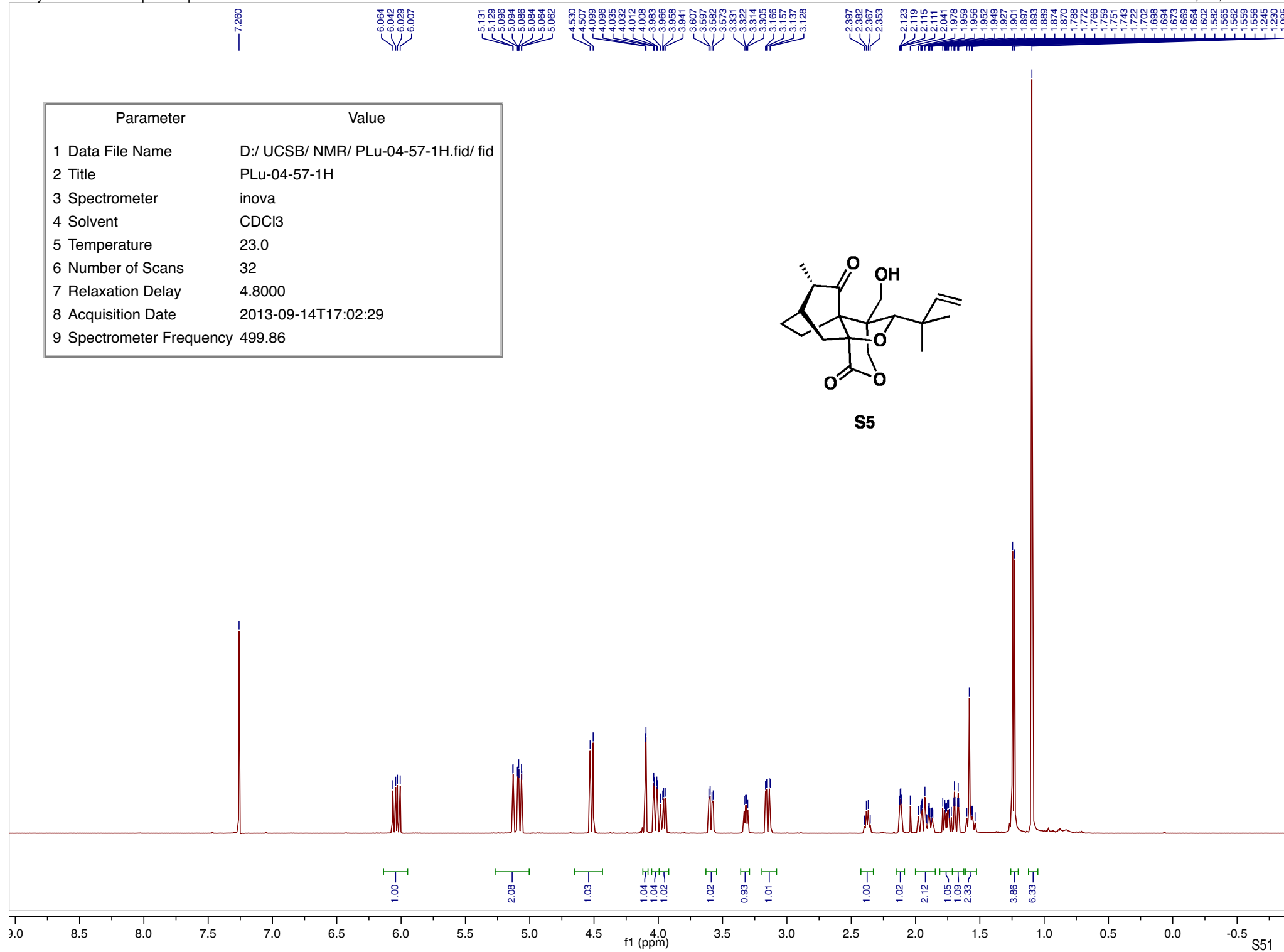
**20**

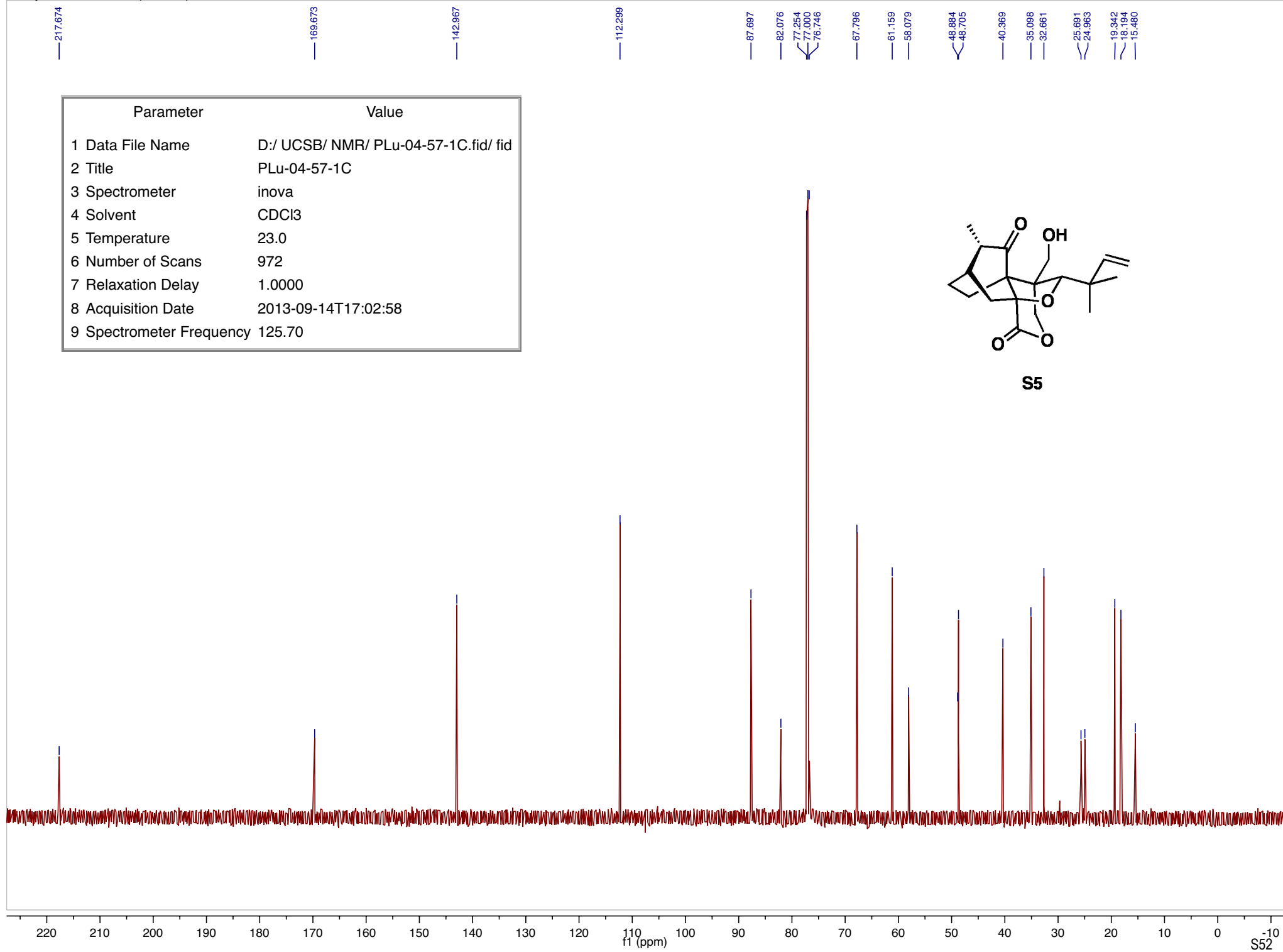


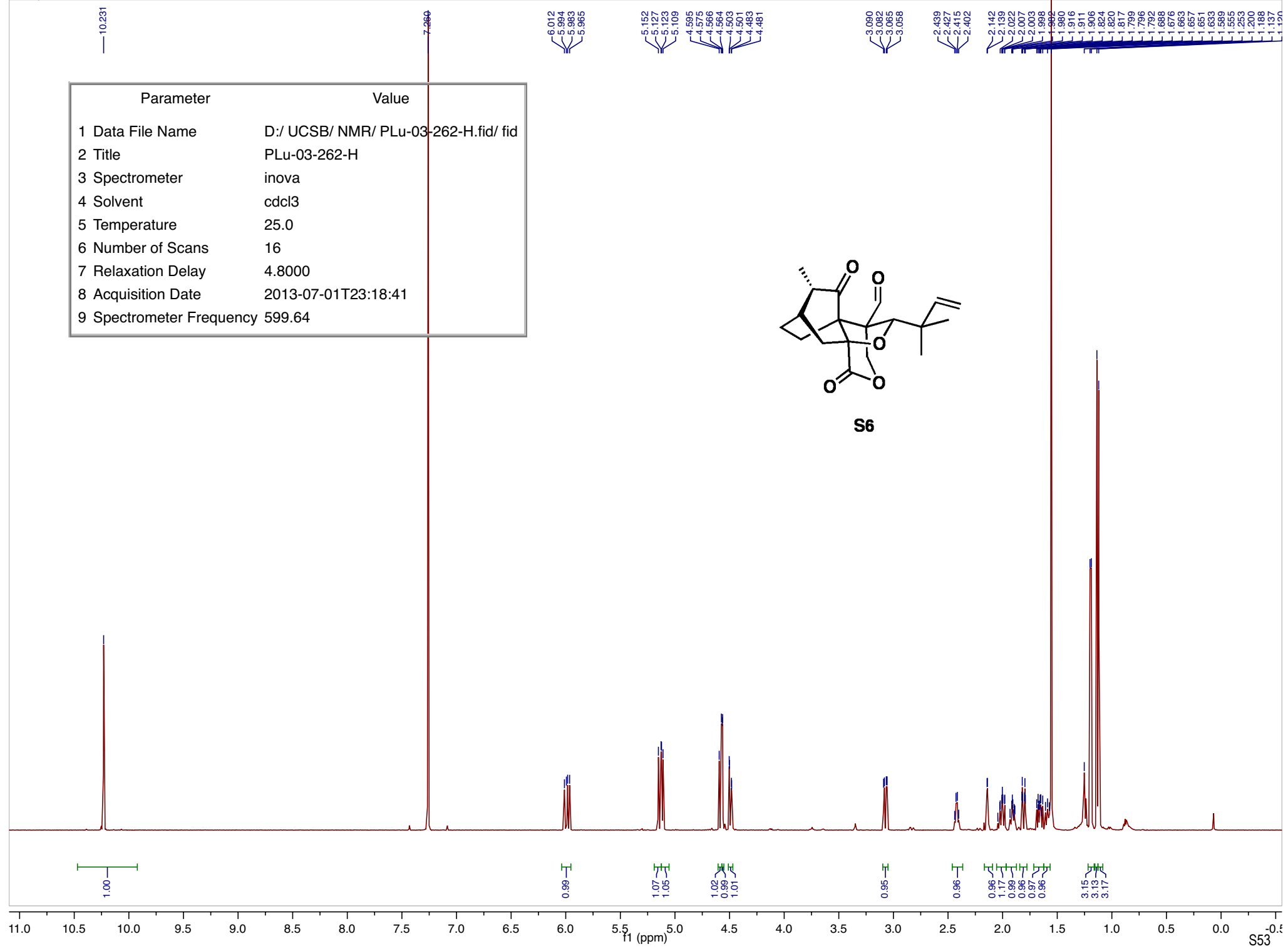
Parameter	Value
1 Data File Name	D:/ UCSB/ NMR/ PLu-04-55-H.fid/ fid
2 Title	PLu-04-55-H
3 Spectrometer	inova
4 Solvent	CDCl3
5 Temperature	23.0
6 Number of Scans	32
7 Relaxation Delay	4.8000
8 Acquisition Date	2013-09-14T13:04:52
9 Spectrometer Frequency	499.86

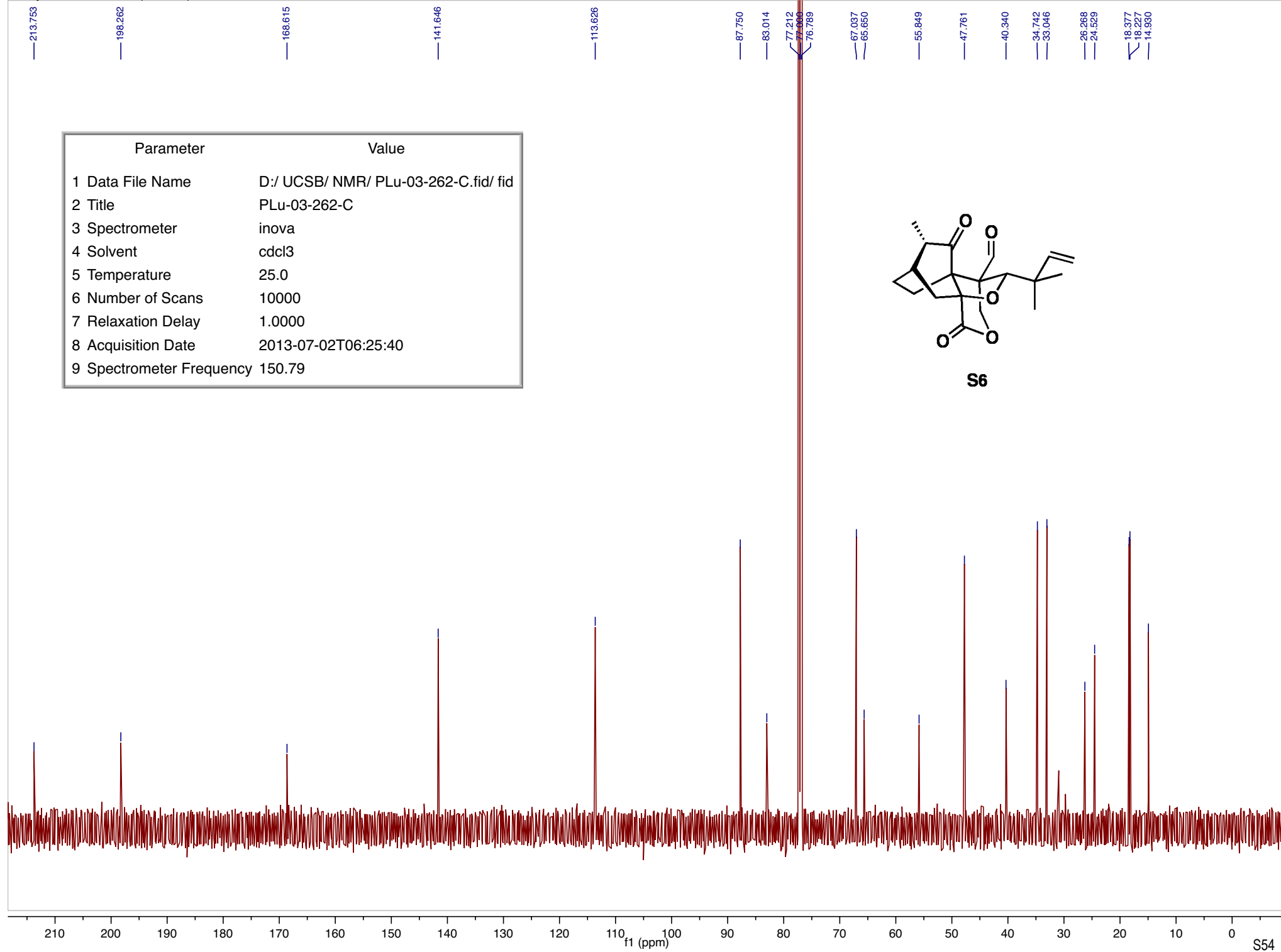




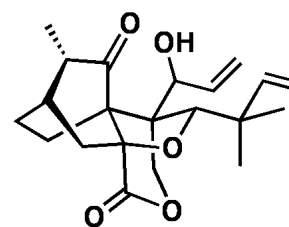








Parameter	Value
1 Data File Name	D:/ UCSB/ NMR/ PLu-04-59-H.fid/ fid
2 Title	PLu-04-59-H
3 Spectrometer	inova
4 Solvent	CDCl ₃
5 Temperature	23.0
6 Number of Scans	16
7 Relaxation Delay	4.8000
8 Acquisition Date	2013-09-16T21:25:11
9 Spectrometer Frequency	499.86



22

