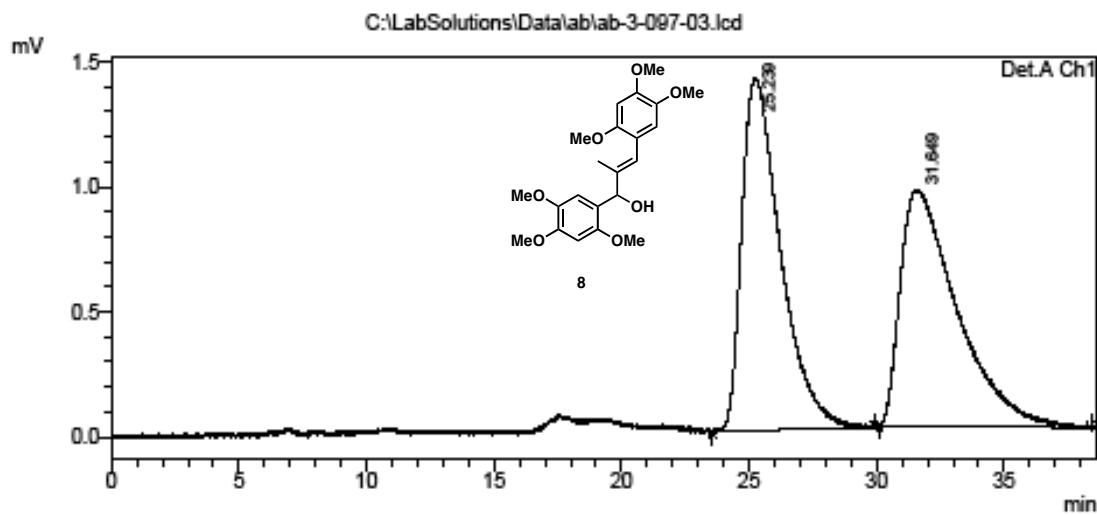


==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\lab\ab-3-097-03.lcd

Acquired by : Admin
 Sample Name : ab-3-139
 Sample ID : ab-3-139
 Vial # :
 Injection Volume : 25 uL
 Data File Name : ab-3-097-03.lcd
 Method File Name : ces-OD-H-analytical 0.46cm x 25cm.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 6/11/2011 3:55:22 PM
 Data Processed : 6/11/2011 4:37:44 PM

<Chromatogram>



1 Det.A Ch1/275nm

PeakTable

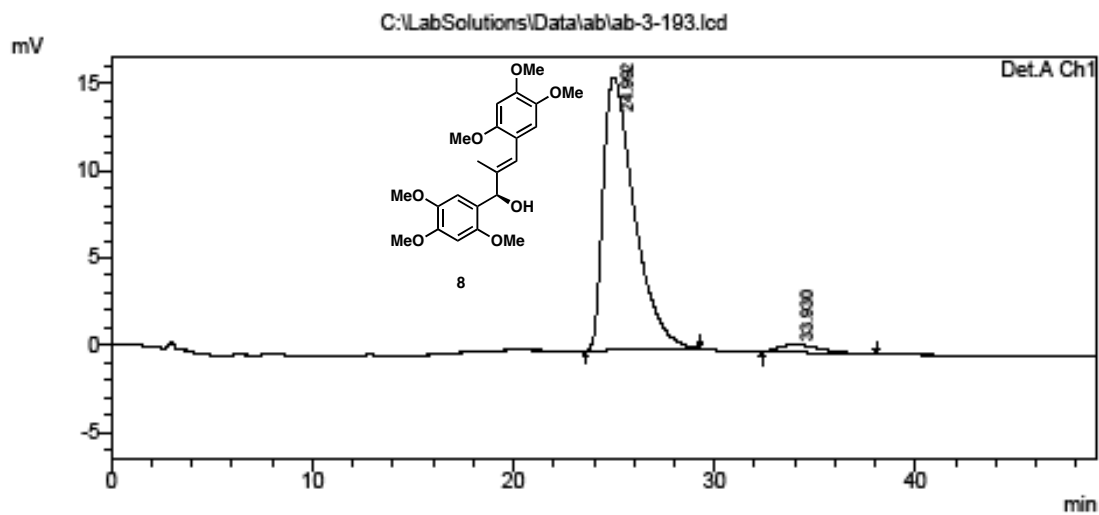
Peak#	Ret. Time	Area	Height	Area %	Height %
1	25.239	149571	1409	50.601	59.885
2	31.649	148019	944	49.399	40.115
Total		295590	2353	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\lab\lab-3-193.lcd

Acquired by : Admin
 Sample Name : ab-3-193
 Sample ID : ab-3-193
 Vail # :
 Injection Volume : 25 uL
 Data File Name : ab-3-193.lcd
 Method File Name : ces-OD-H-analytical 0.46cm x 25cm.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 7/21/2011 5:44:58 PM
 Data Processed : 7/21/2011 6:34:01 PM

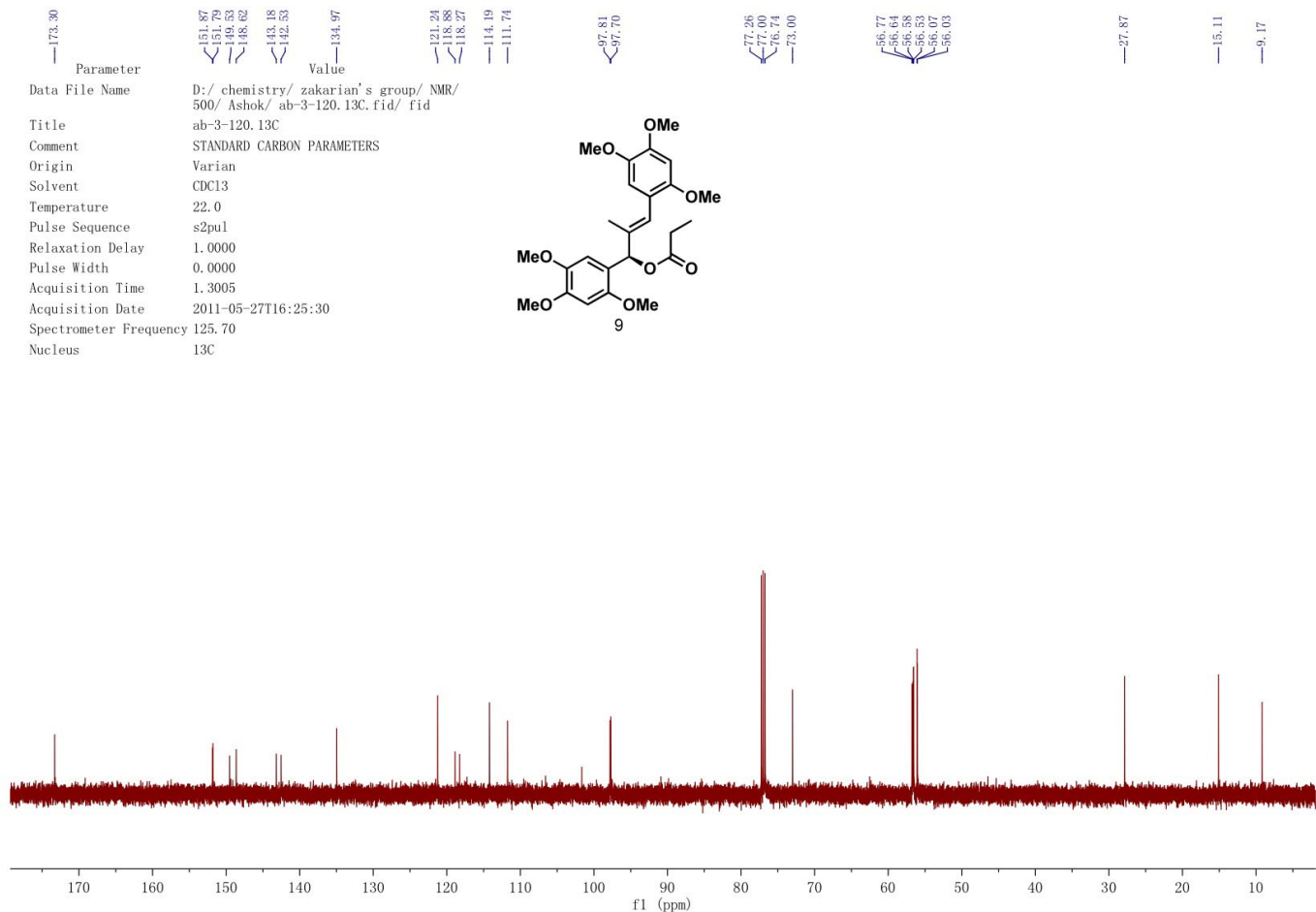
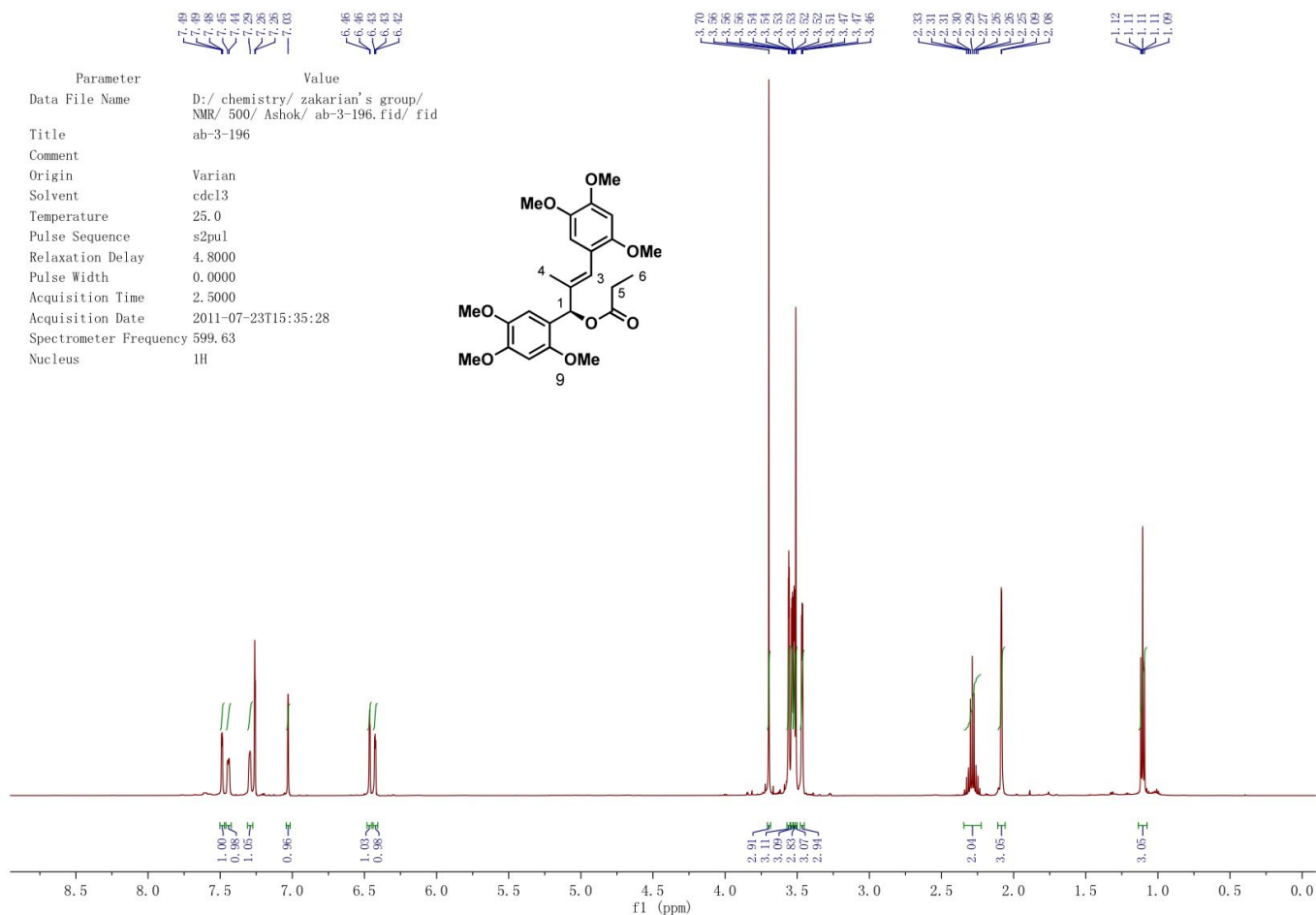
<Chromatogram>

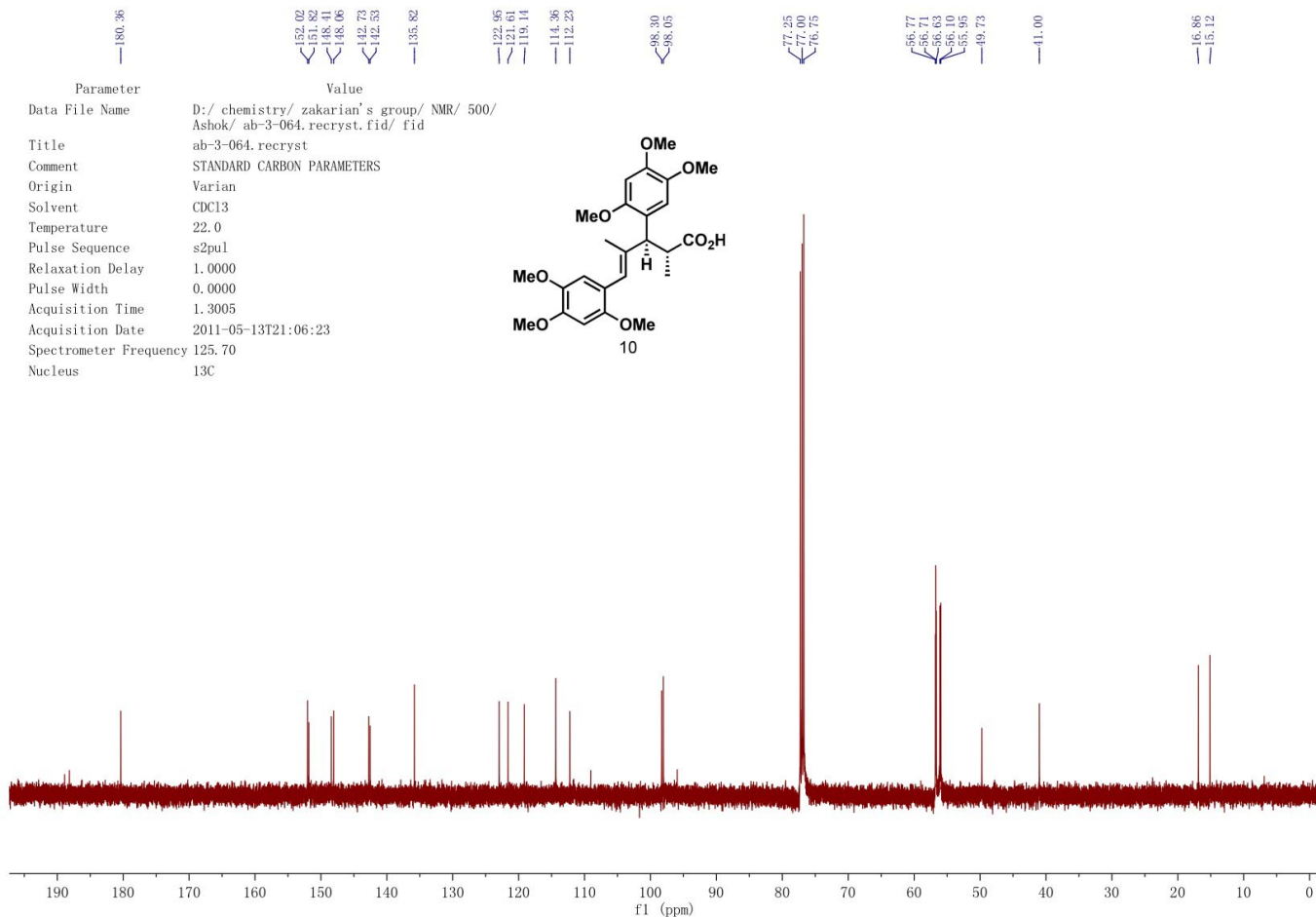
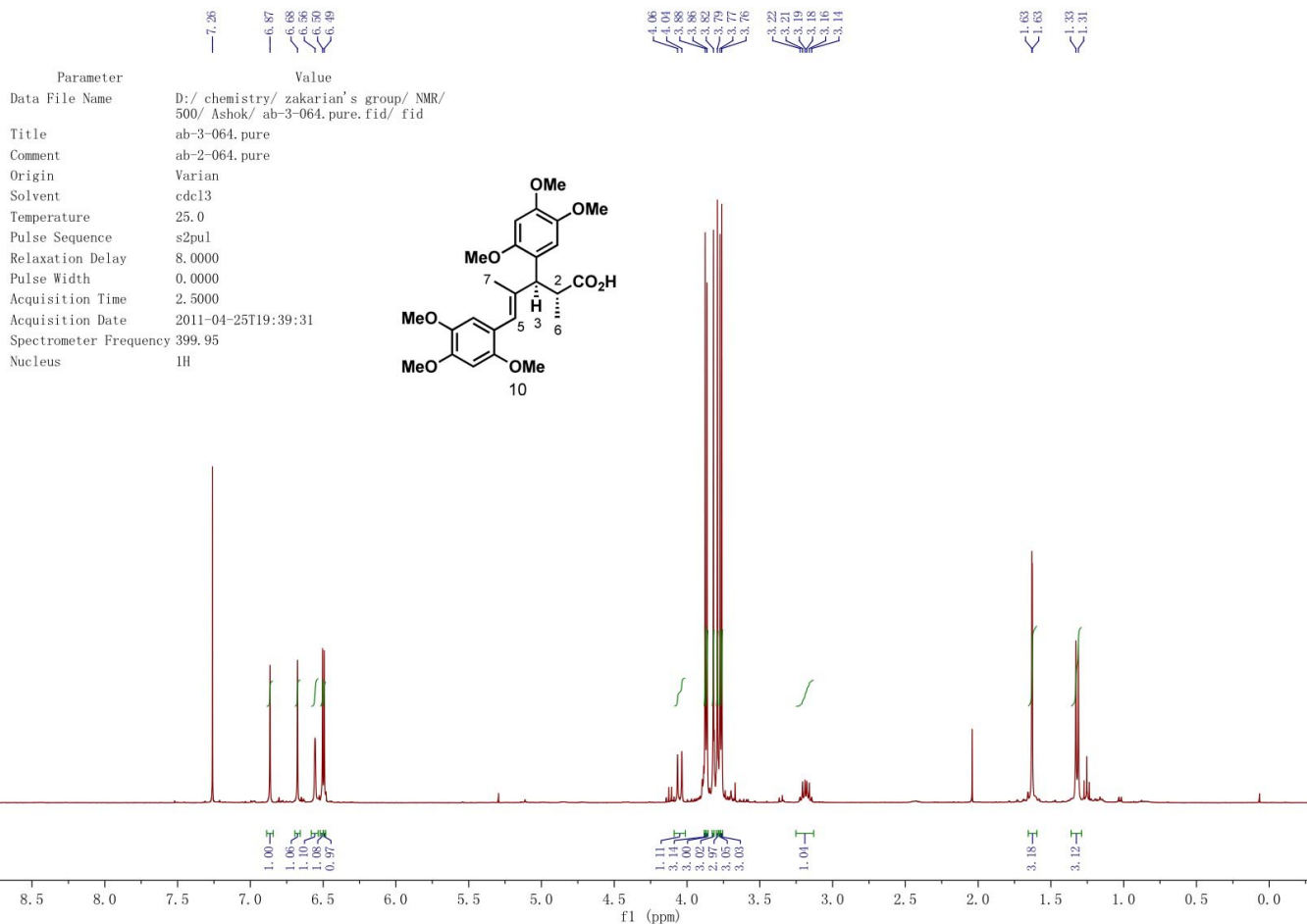


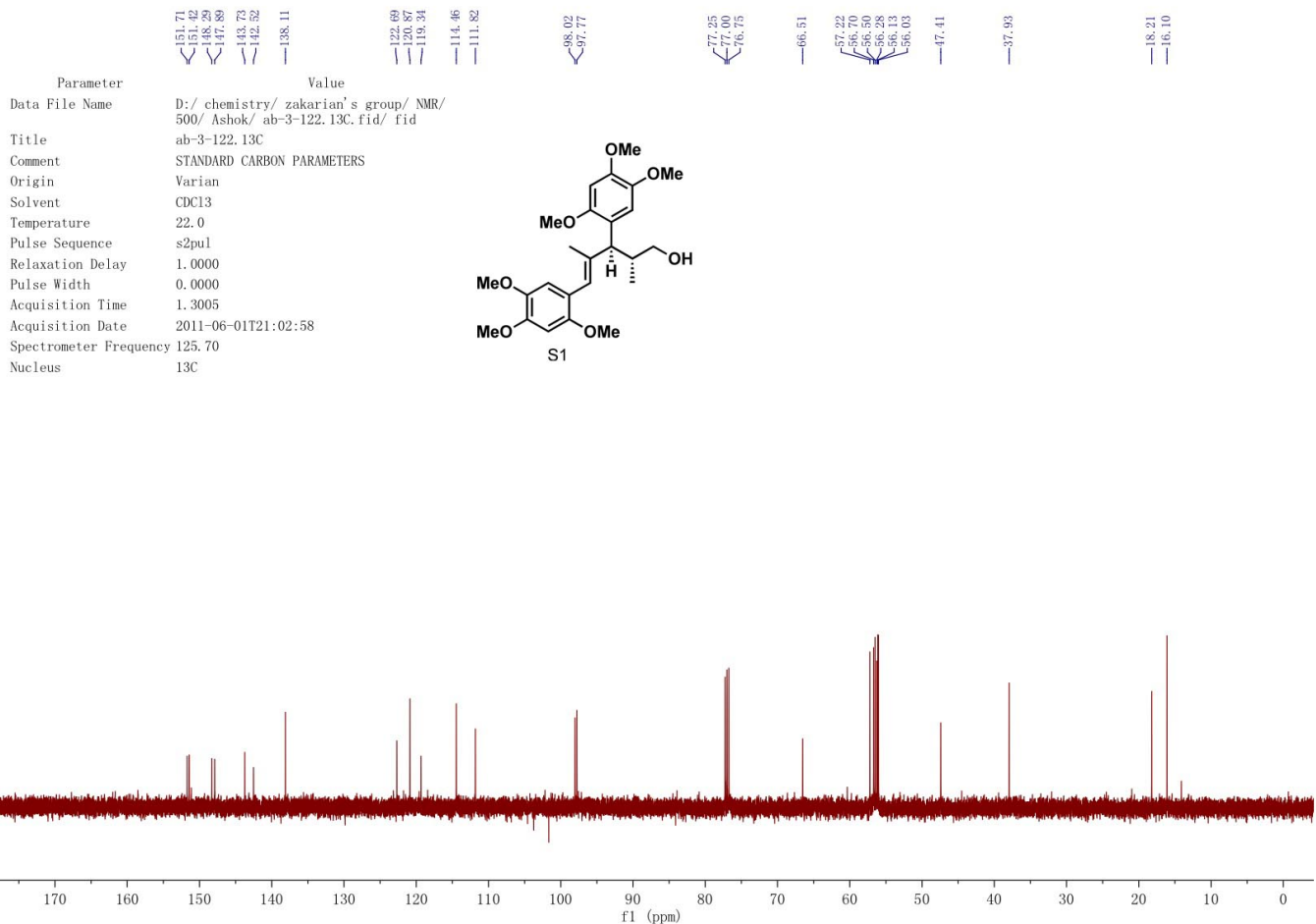
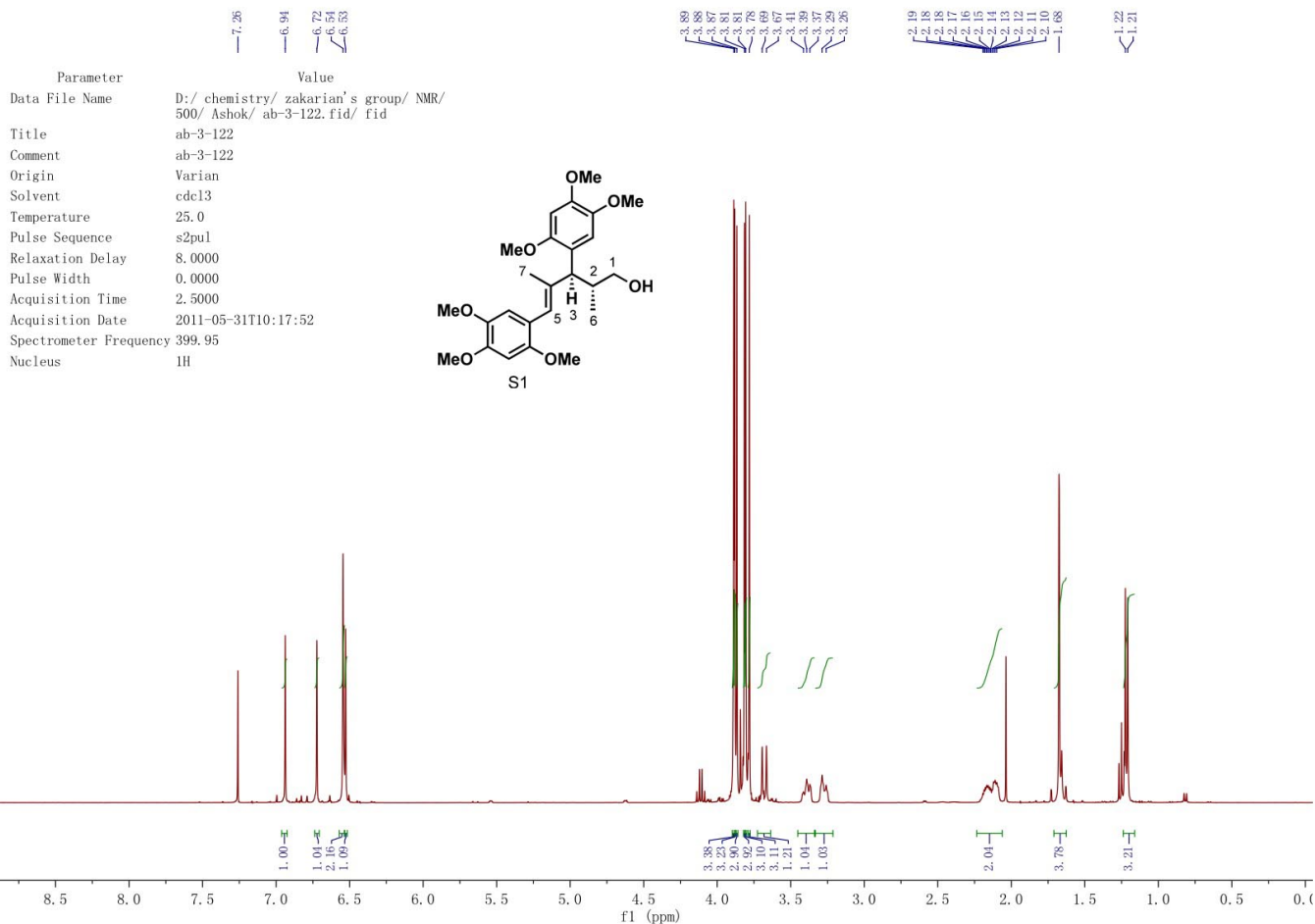
1 Det.A Ch1/215nm

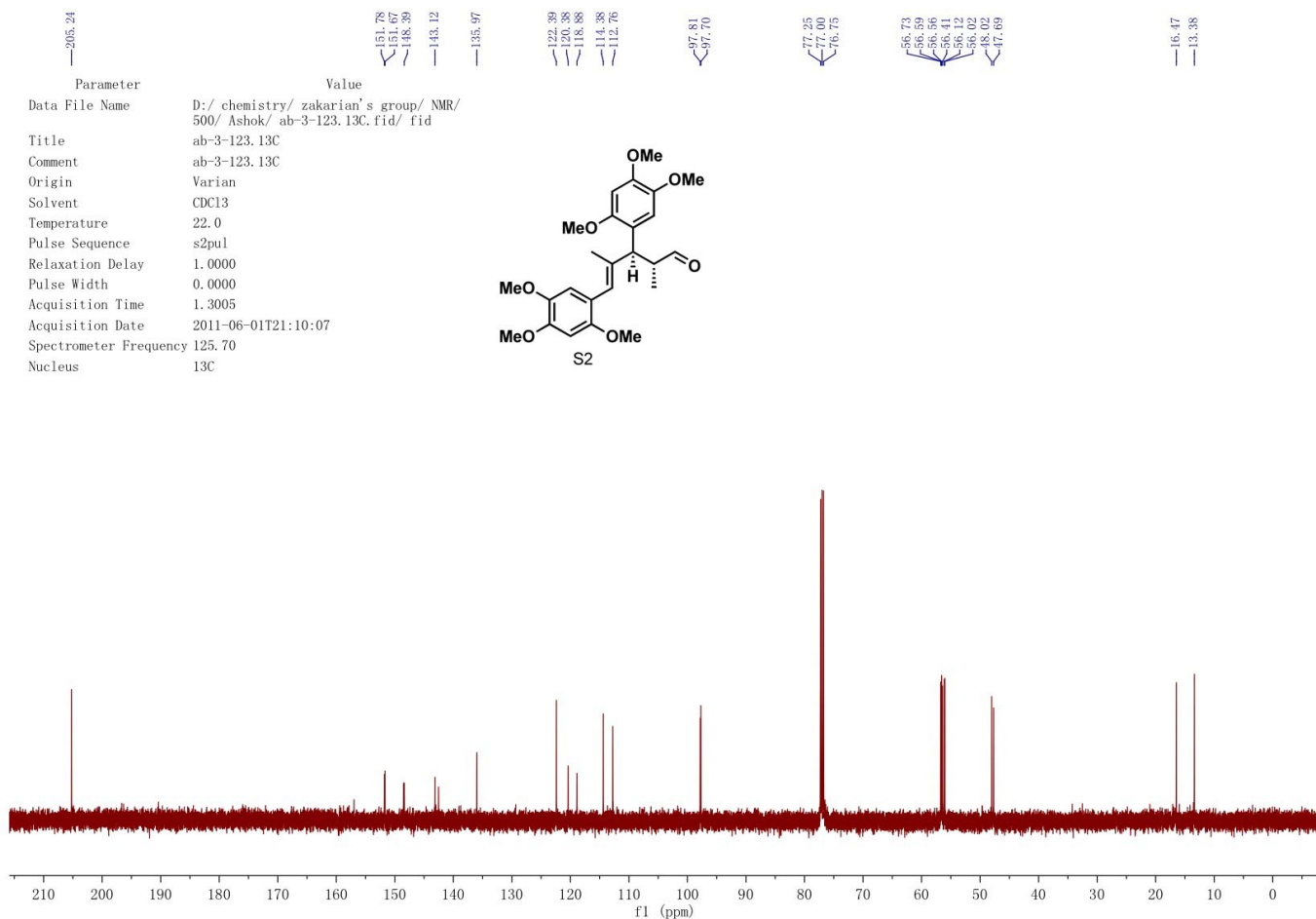
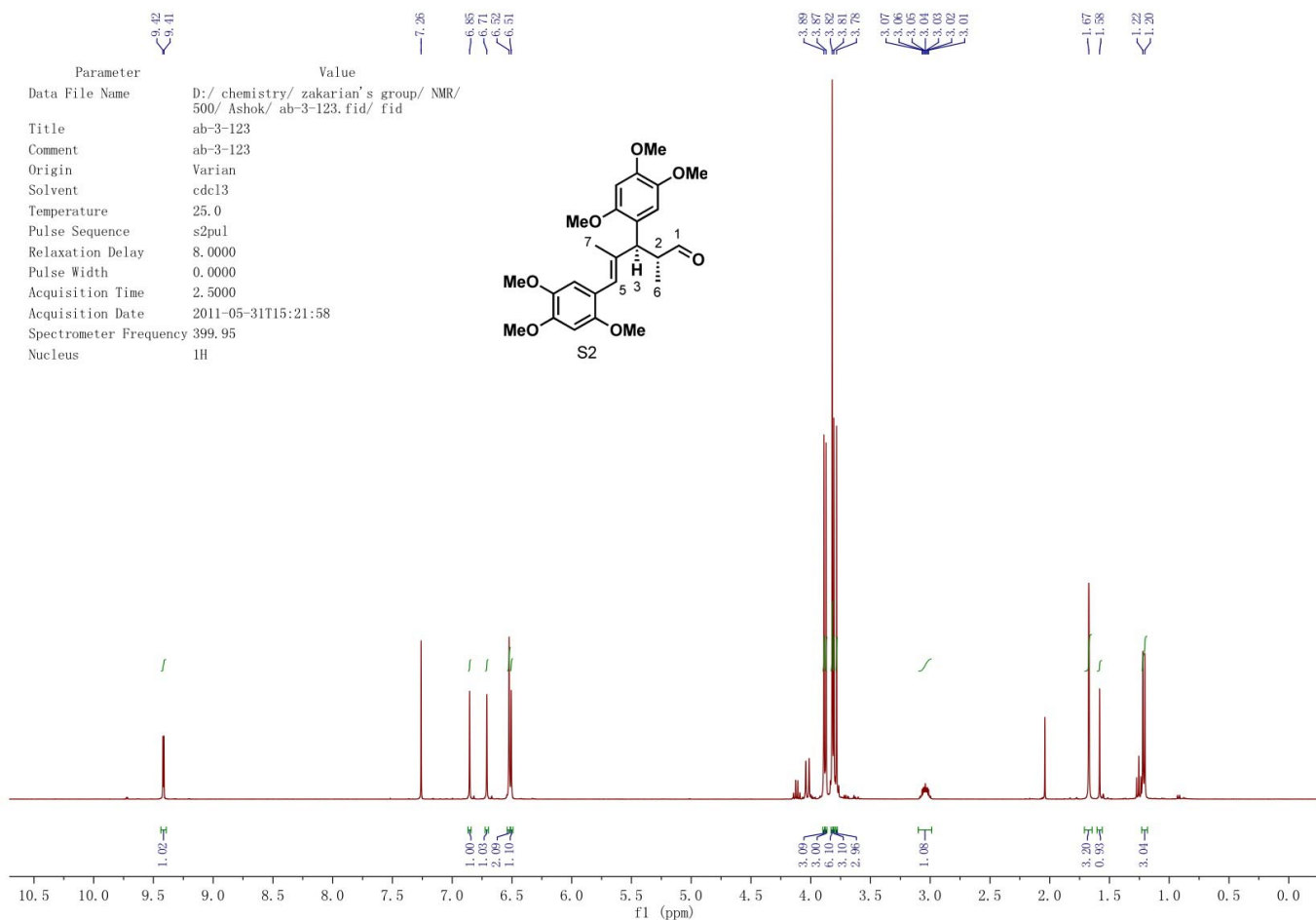
PeakTable

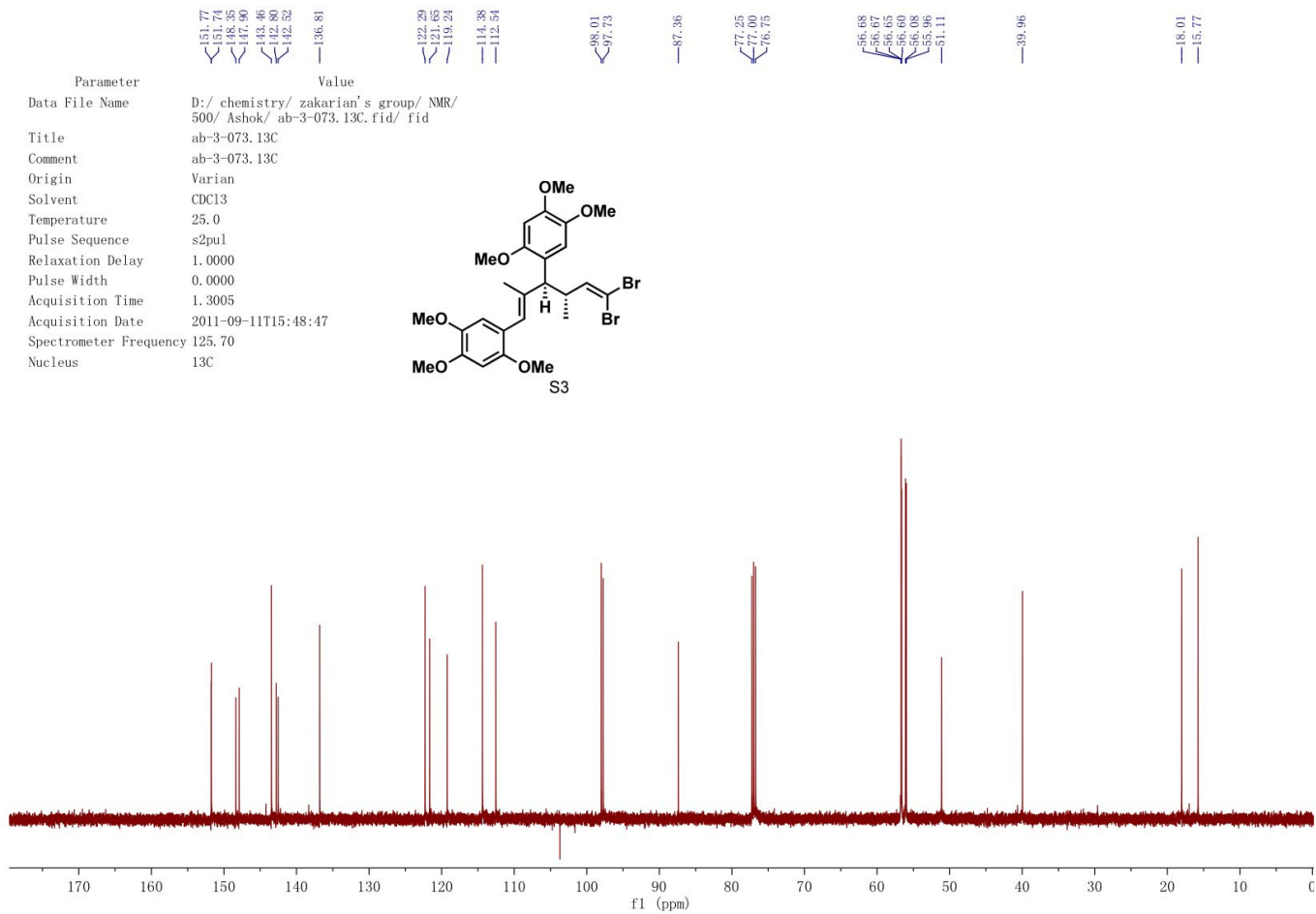
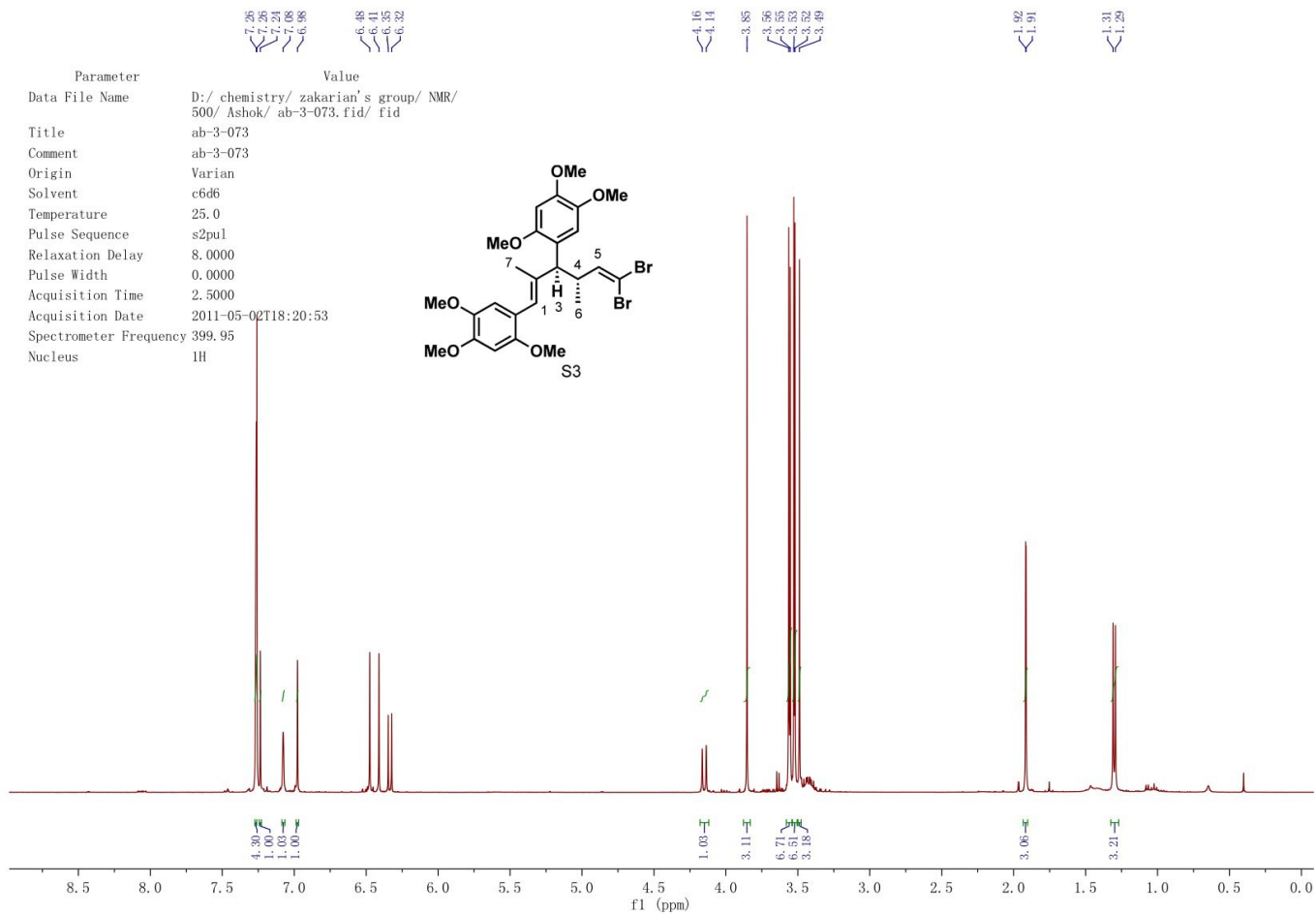
Peak#	Ret. Time	Area	Height	Area %	Height %
1	24.992	1689324	15639	96.437	97.213
2	33.930	62407	448	3.563	2.787
Total		1751731	16087	100.000	100.000

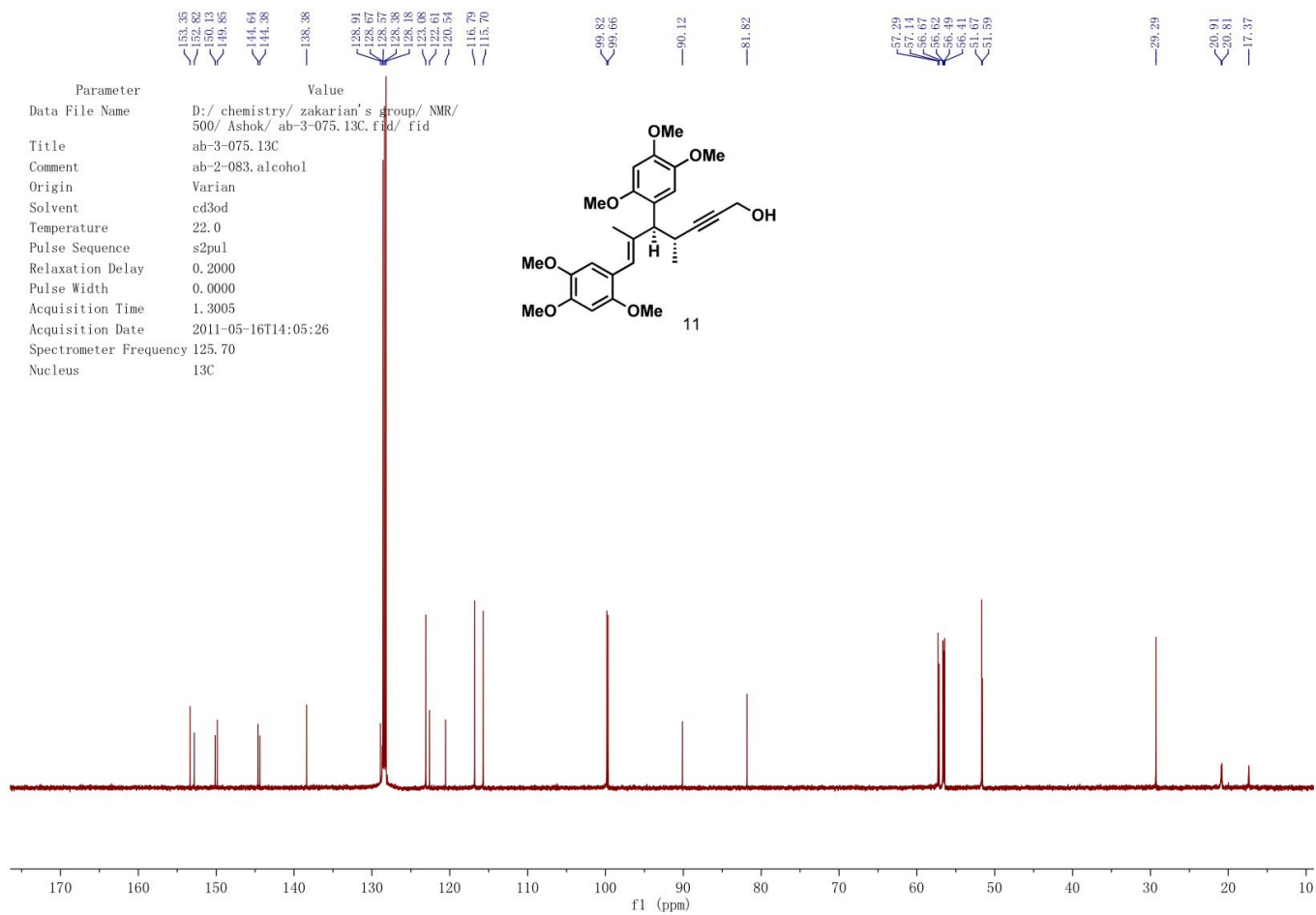
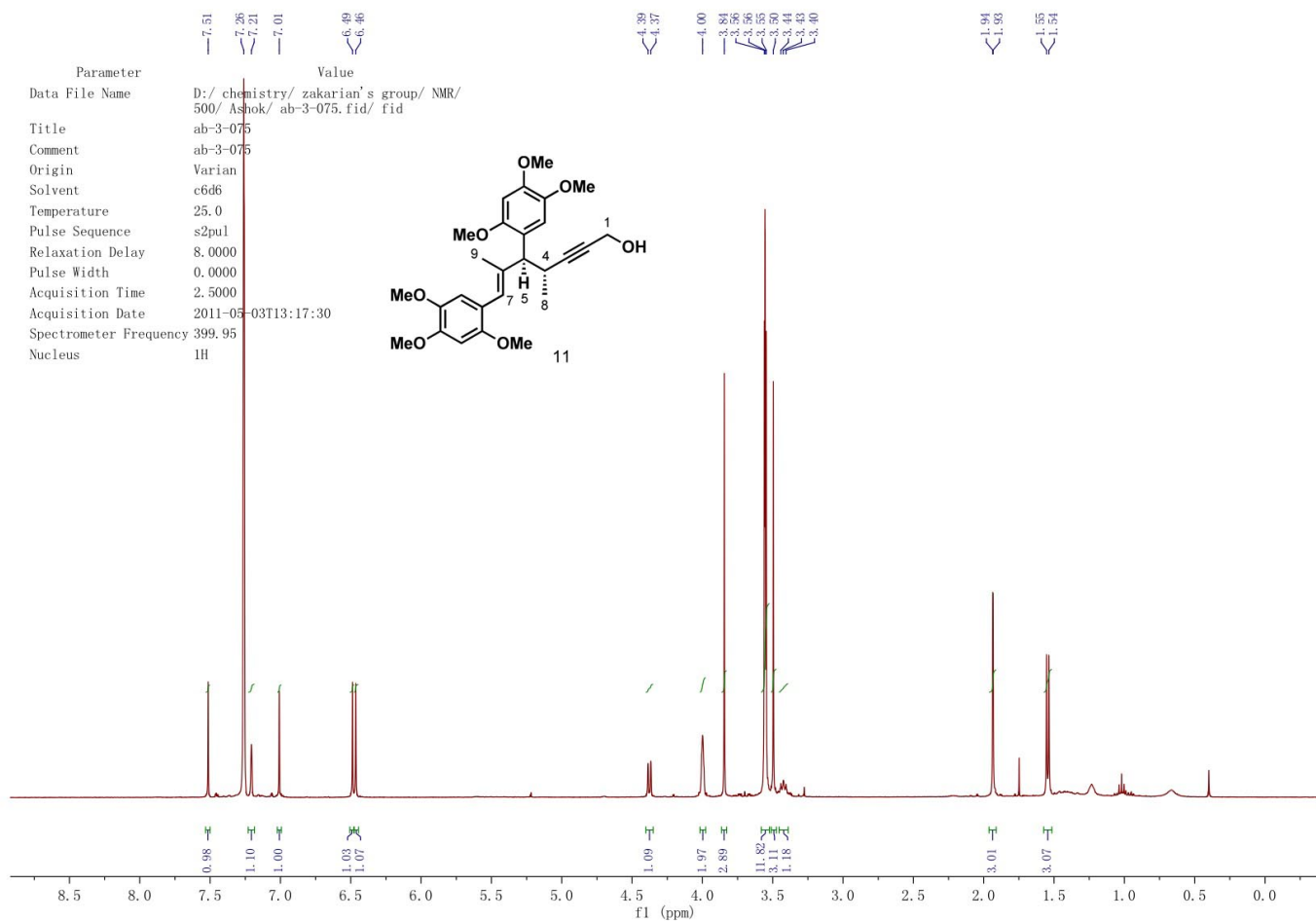


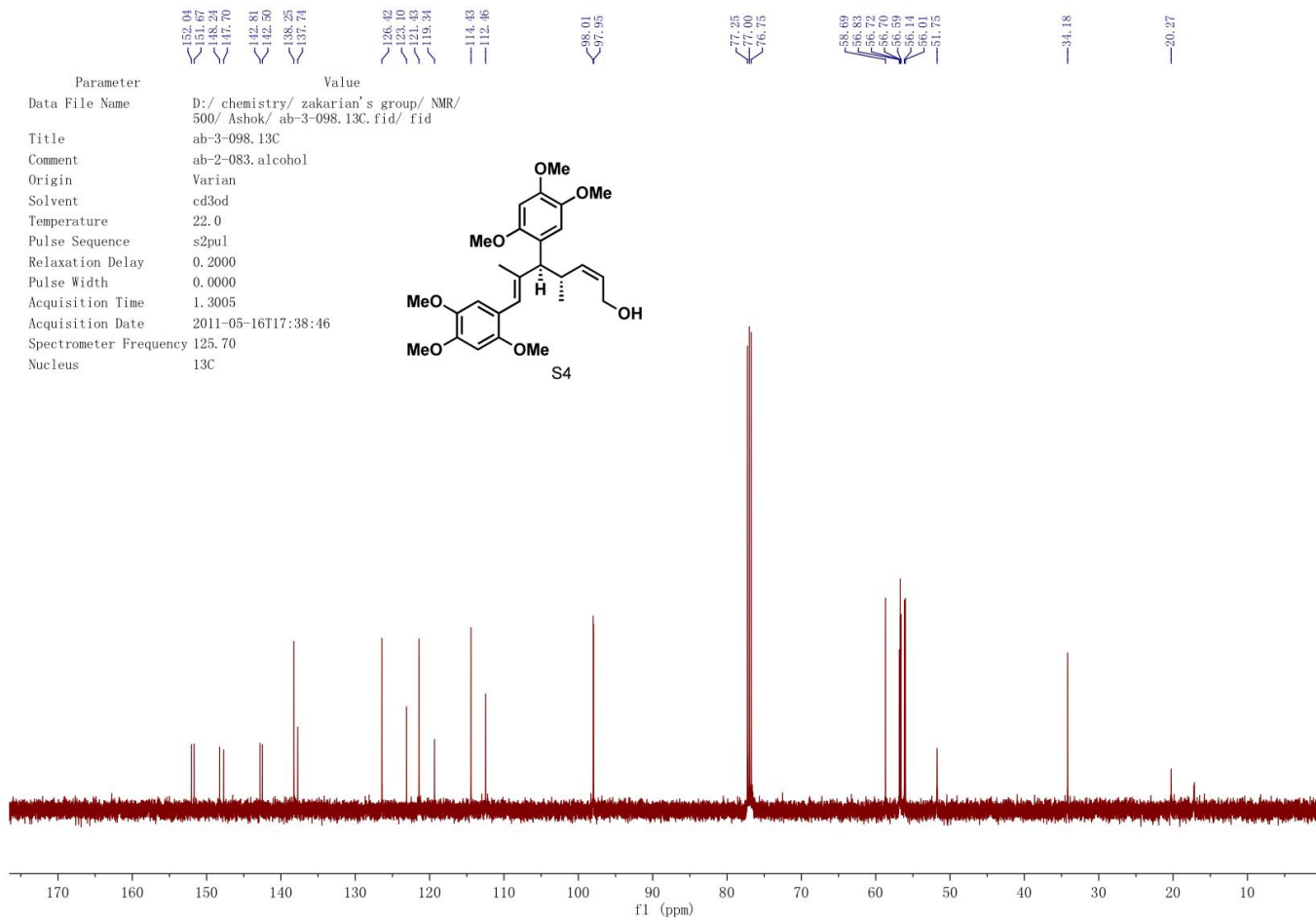
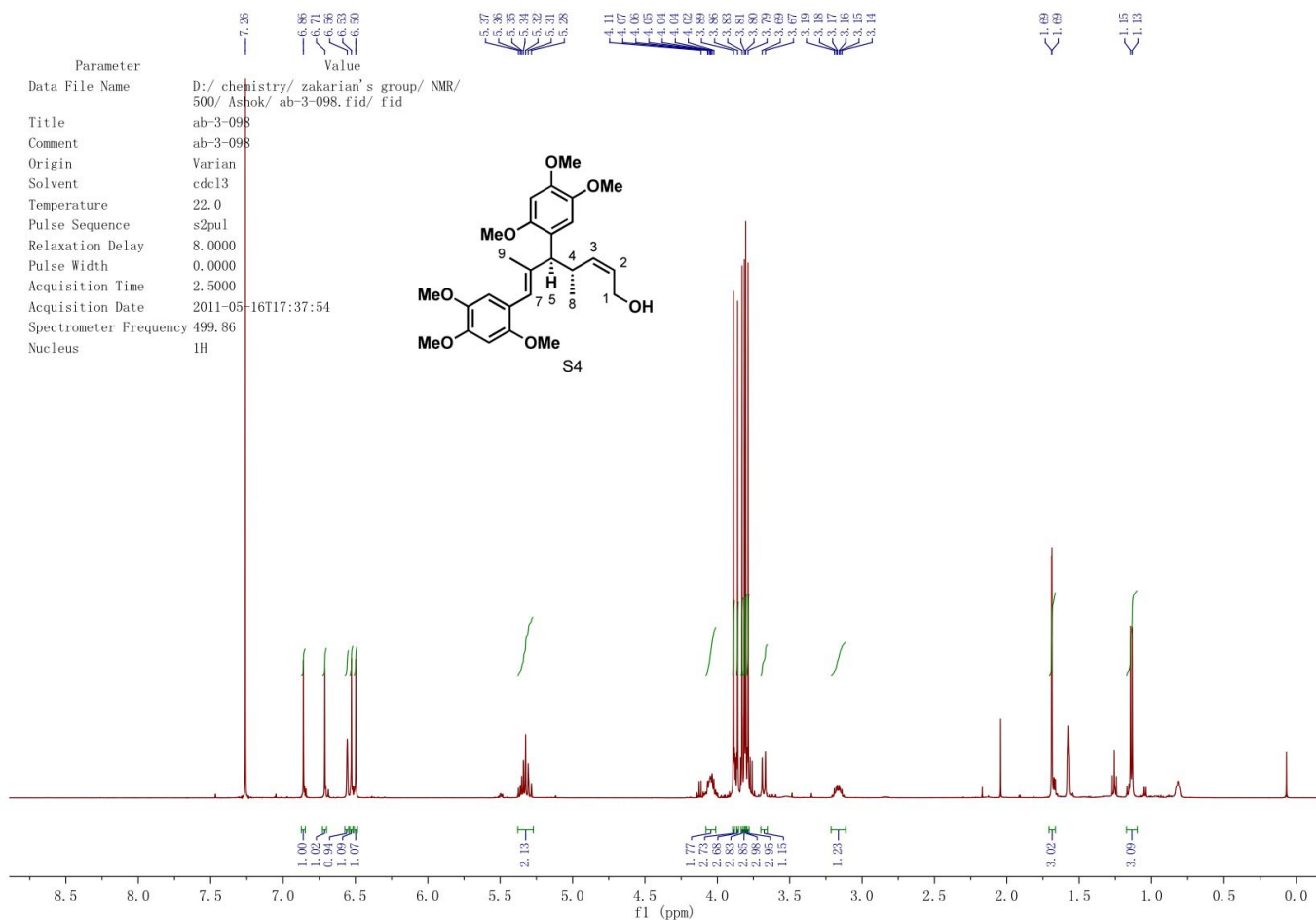


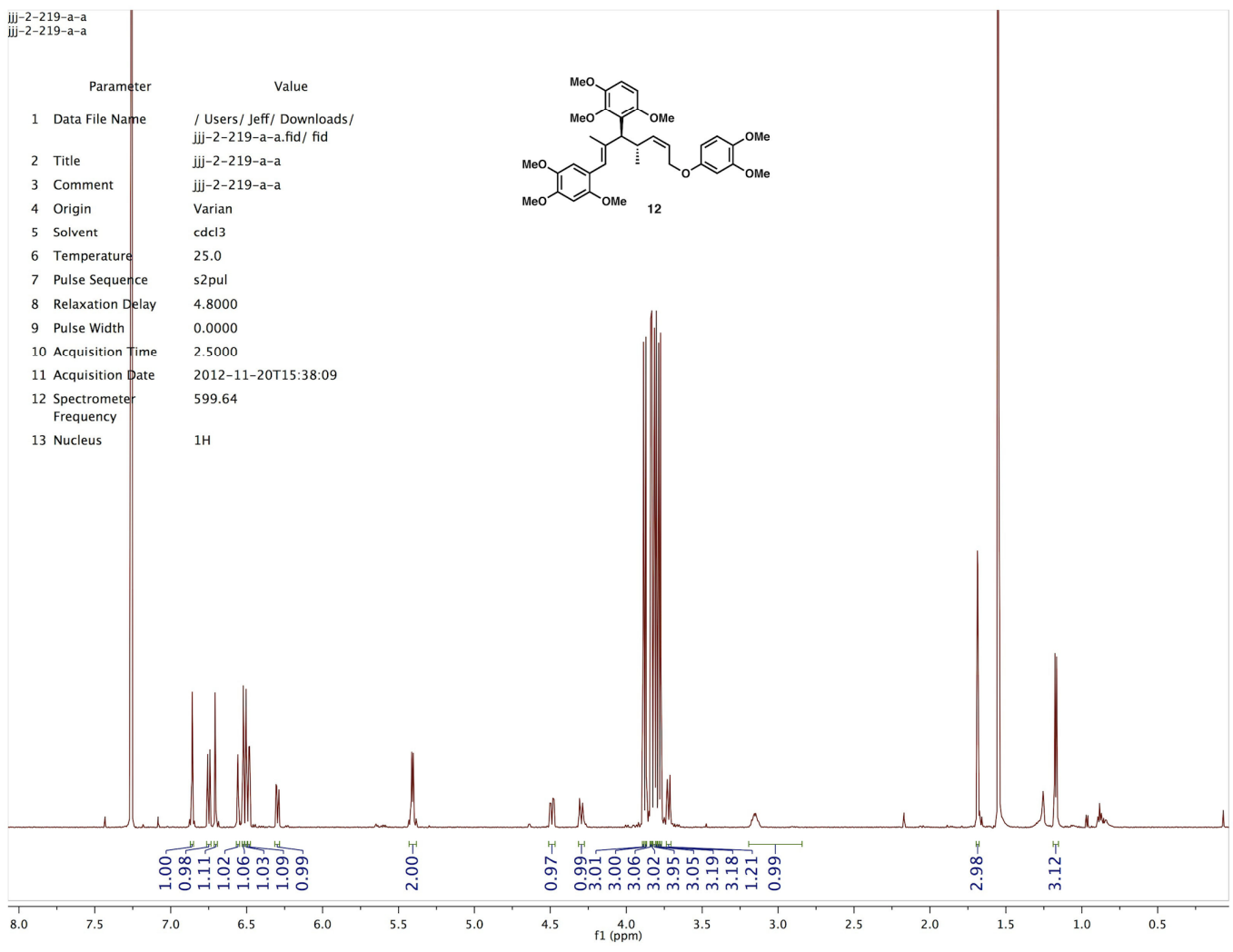






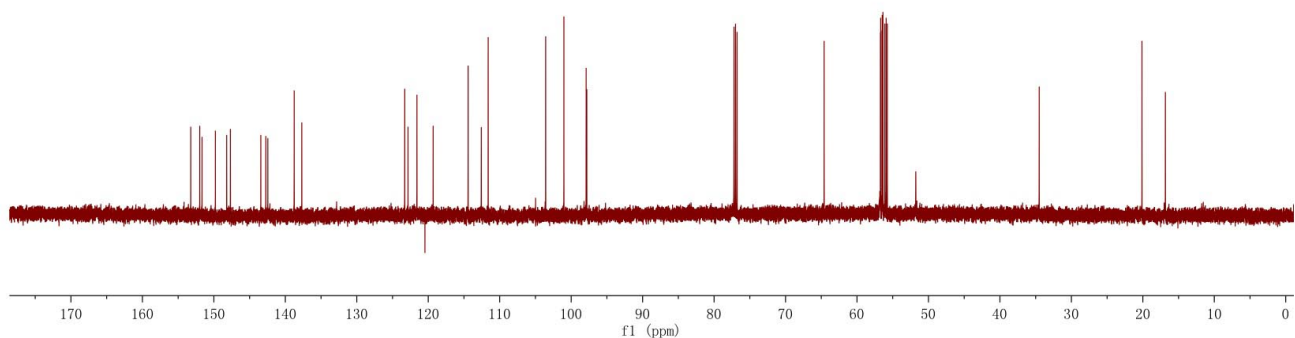
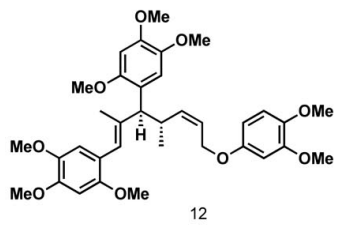


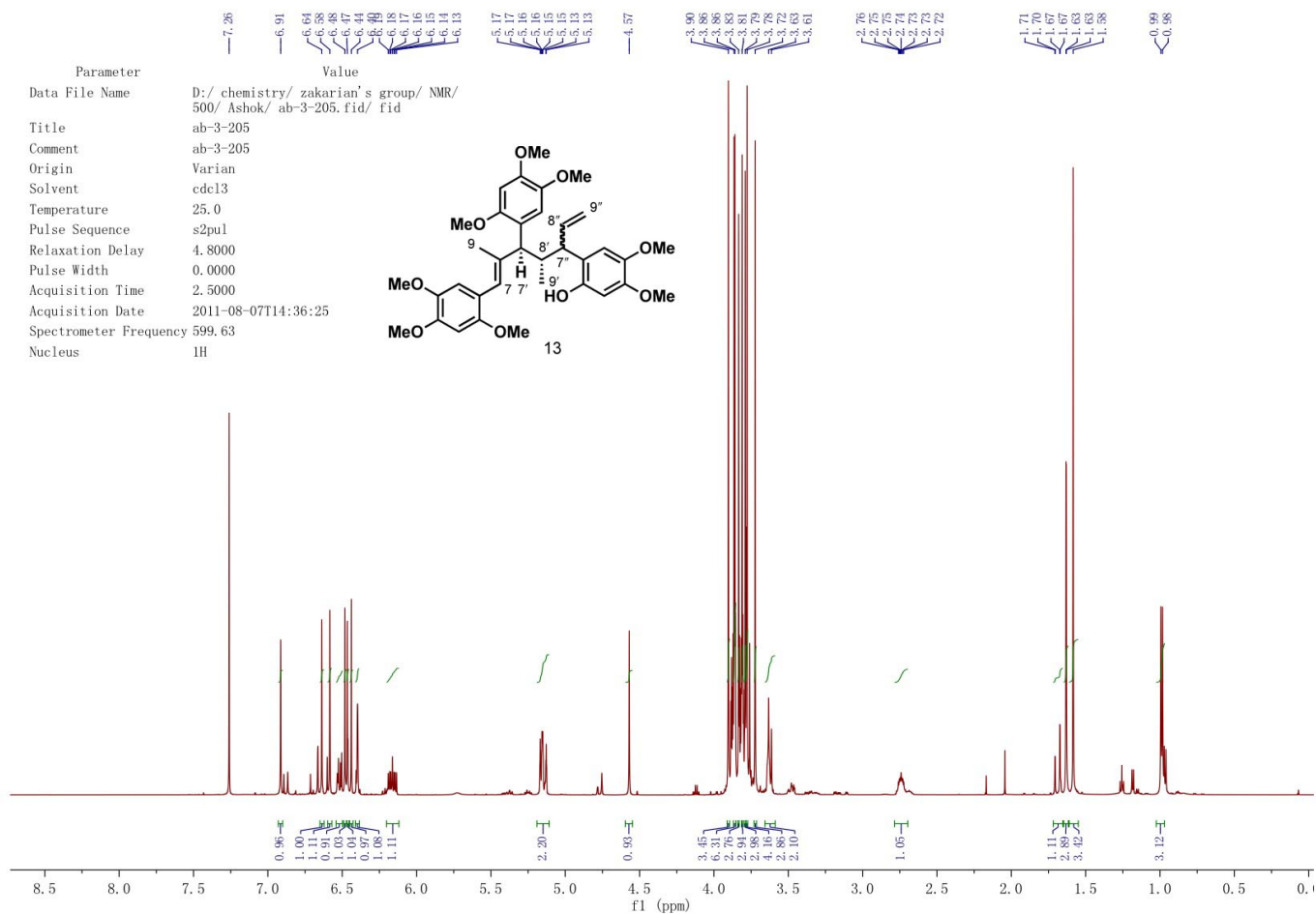


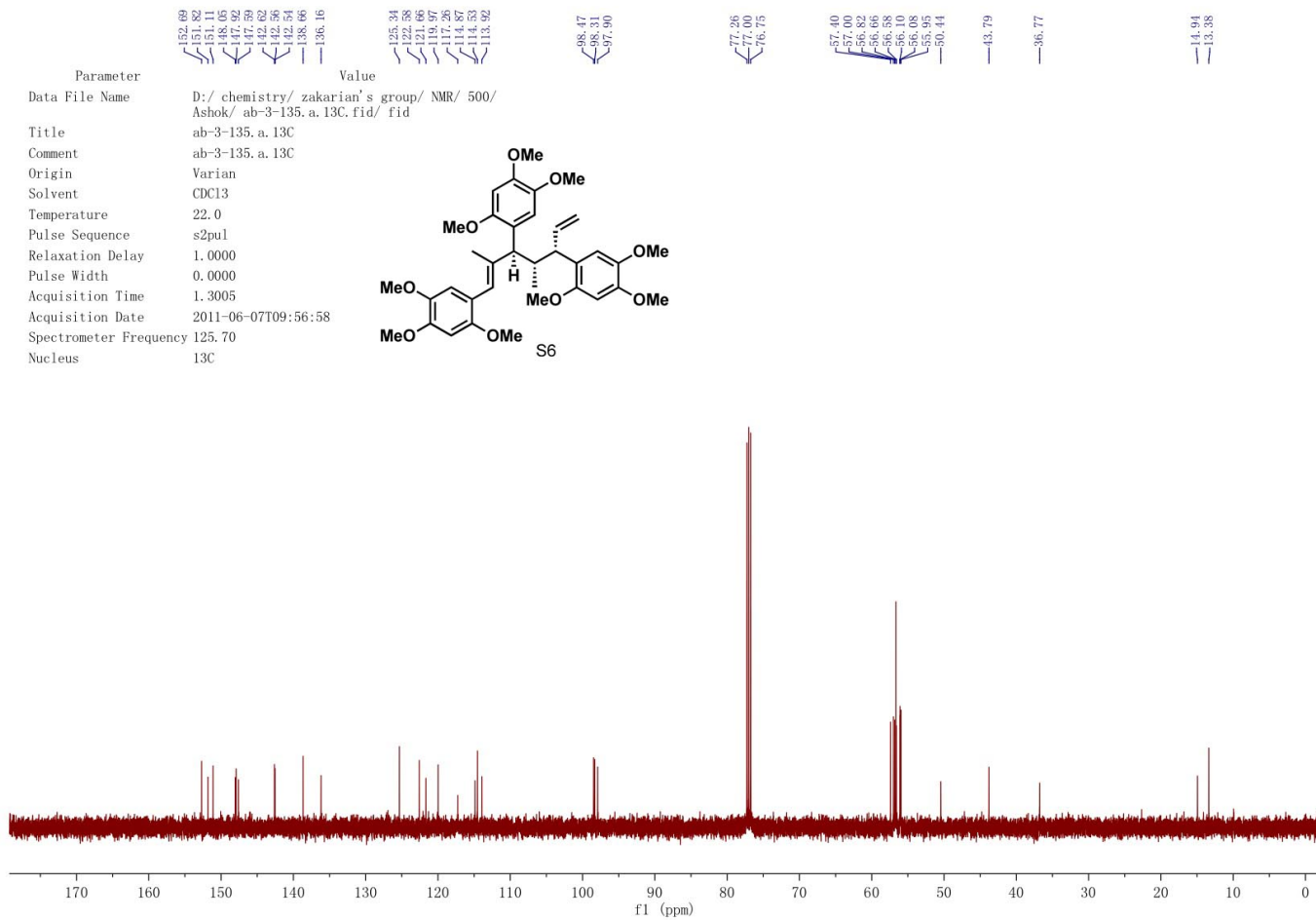
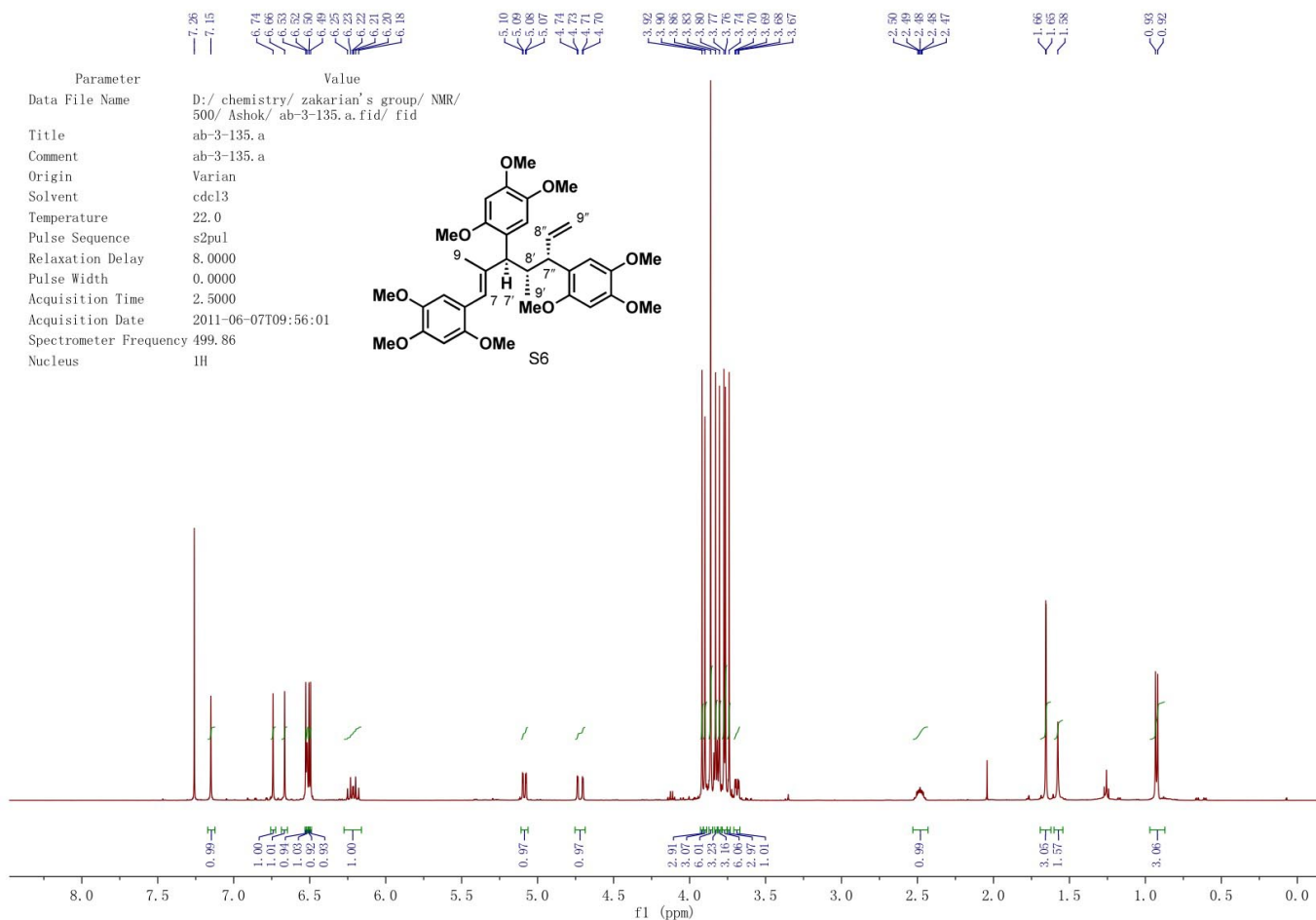


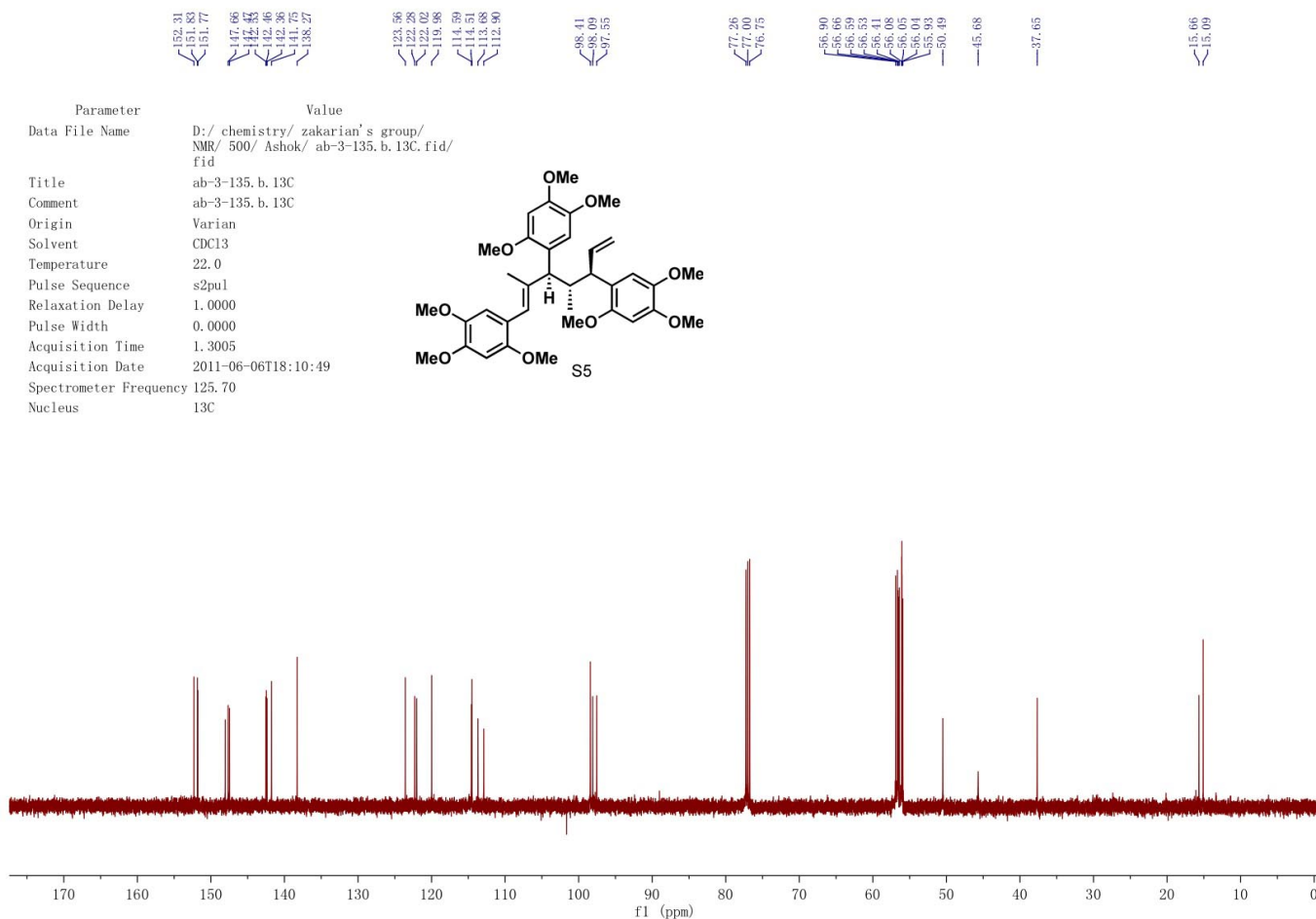
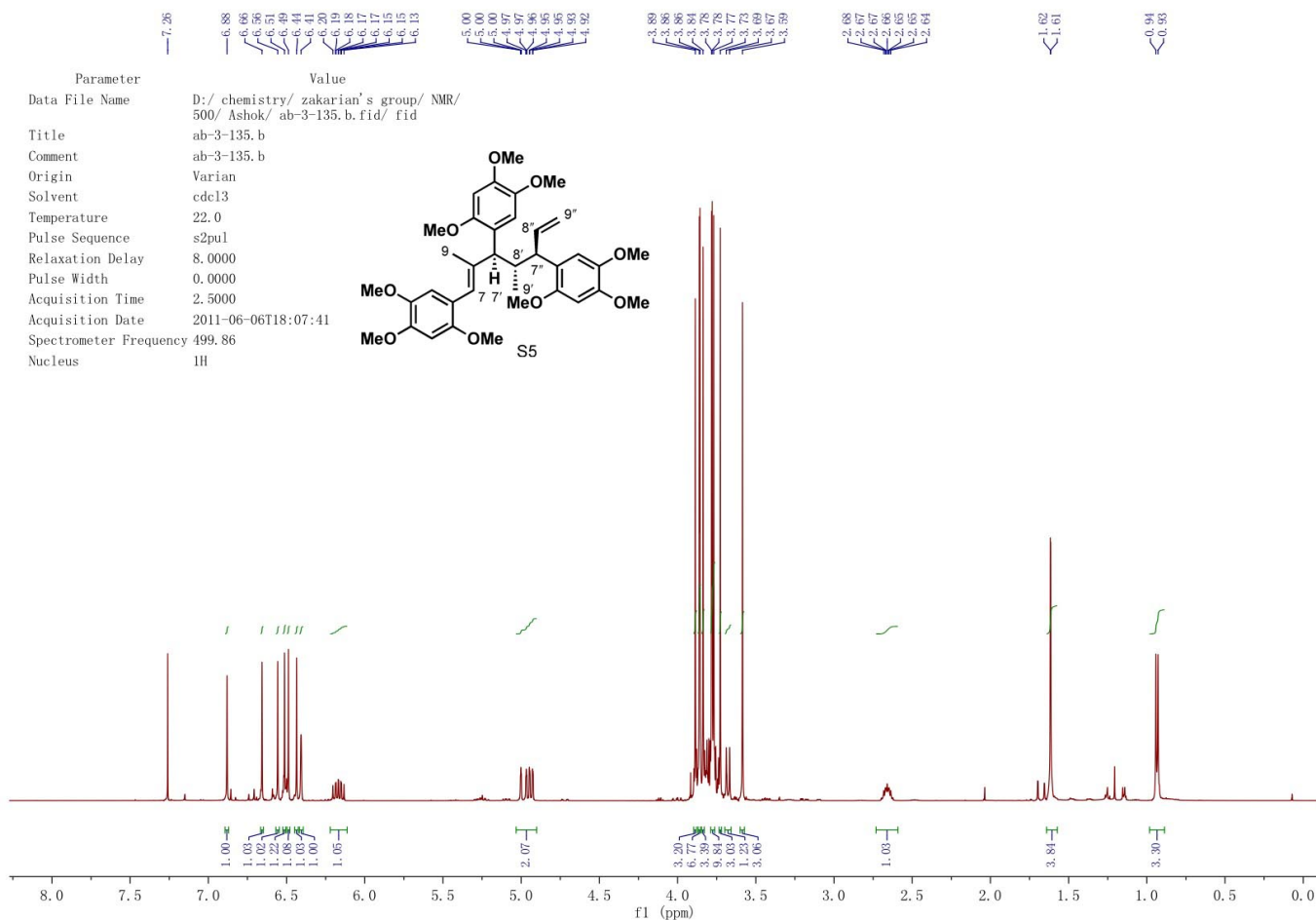
153.23
151.97
151.66
149.79
147.69
143.83
142.73
142.46
138.76
137.70
123.29
122.83
121.58
119.31
114.82
111.61
103.57
102.02
97.91
97.81
77.21
77.00
76.79
64.60
56.69
56.47
56.37
56.10
55.92
55.74
34.50
20.12
16.84

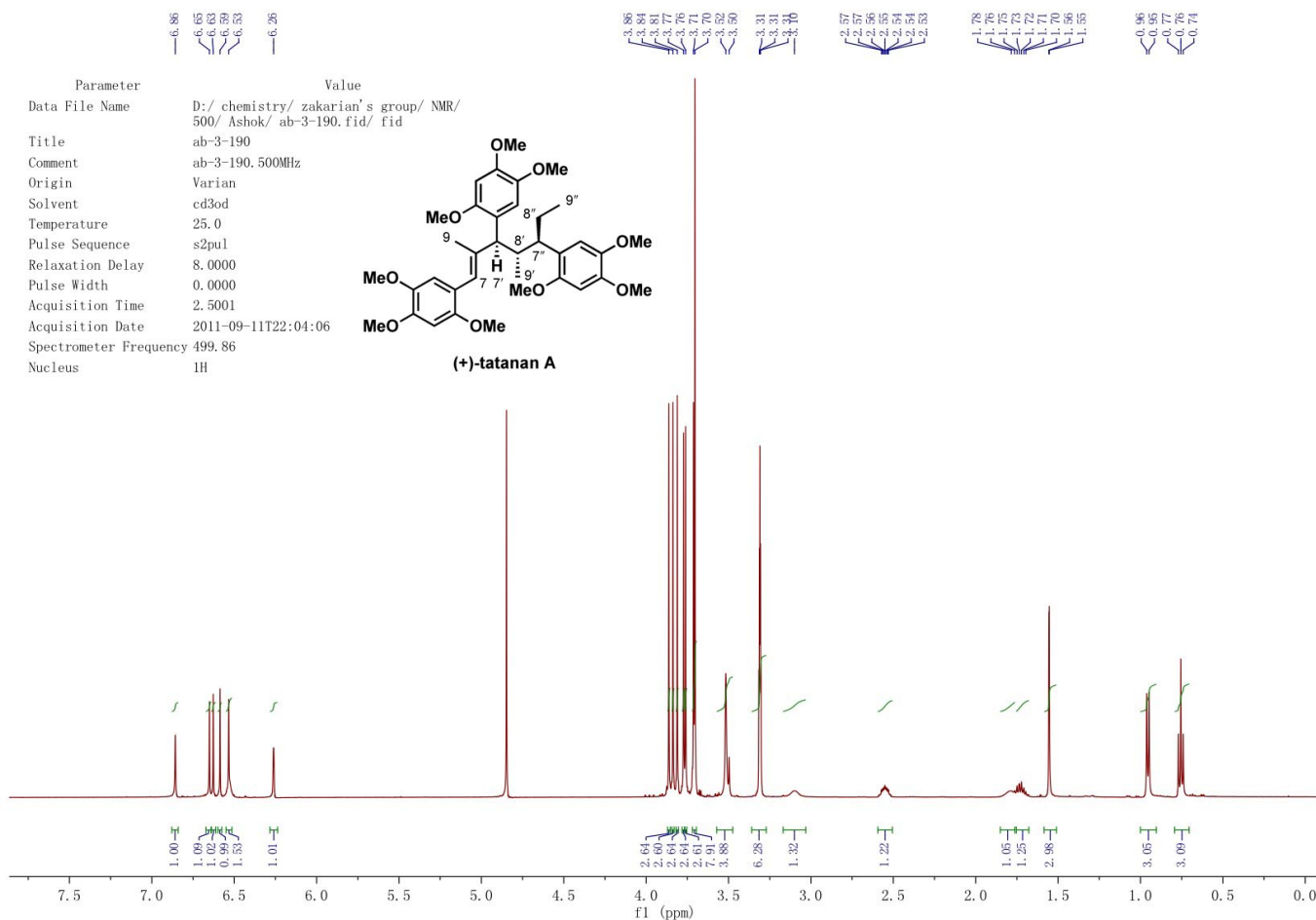
Parameter	Value
Data File Name	D:/ chemistry / zakarian's group / NMR / 500 / Ashok / ab-3-128.13C.fid / fid
Title	ab-3-128.13C
Comment	ab-3-128.13C
Origin	Varian
Solvent	cdcl3
Temperature	25.0
Pulse Sequence	s2pul
Relaxation Delay	1.0000
Pulse Width	0.0000
Acquisition Time	1.2987
Acquisition Date	2011-07-28T21:49:15
Spectrometer Frequency	150.79
Nucleus	¹³ C



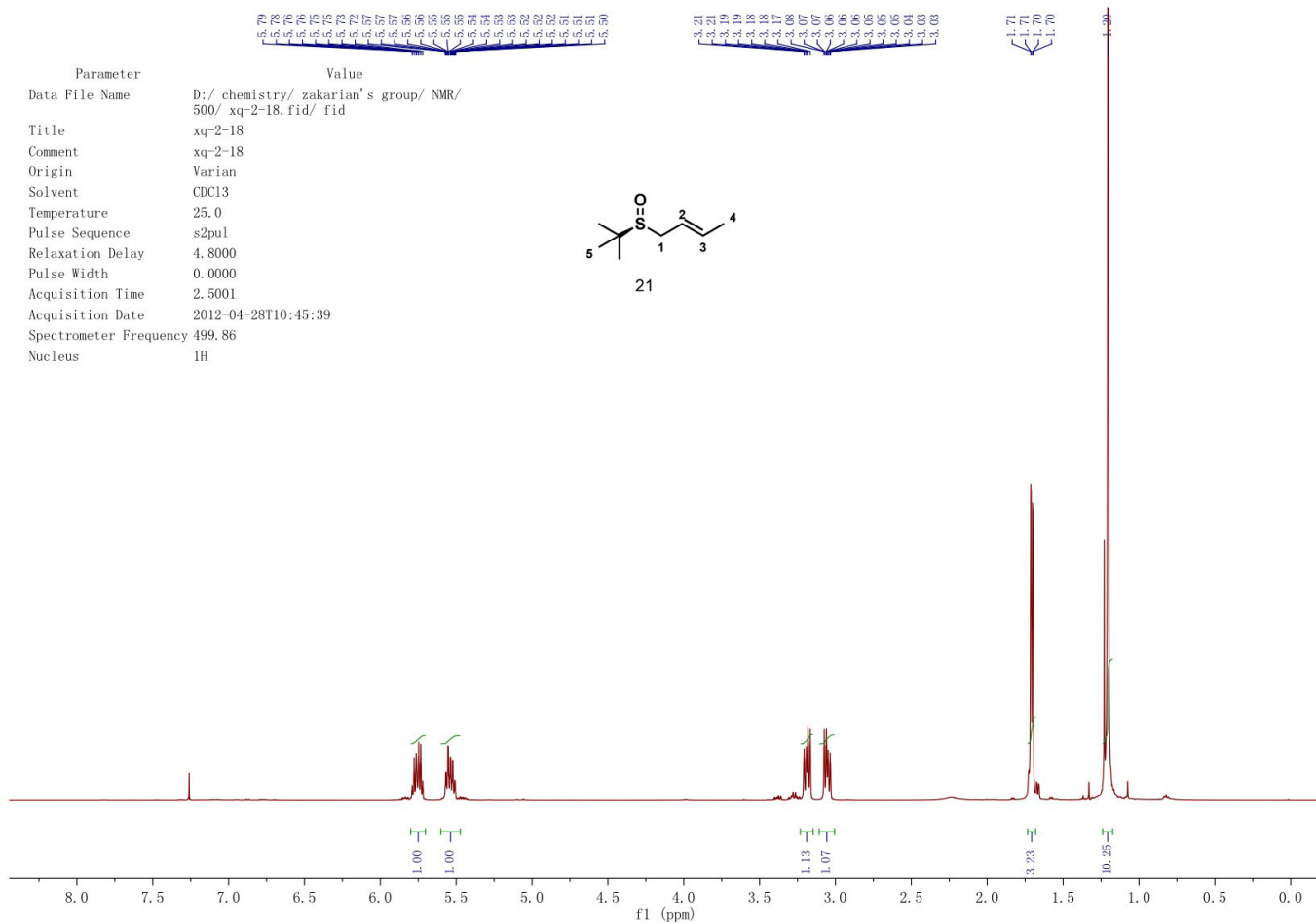
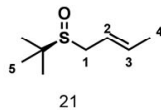




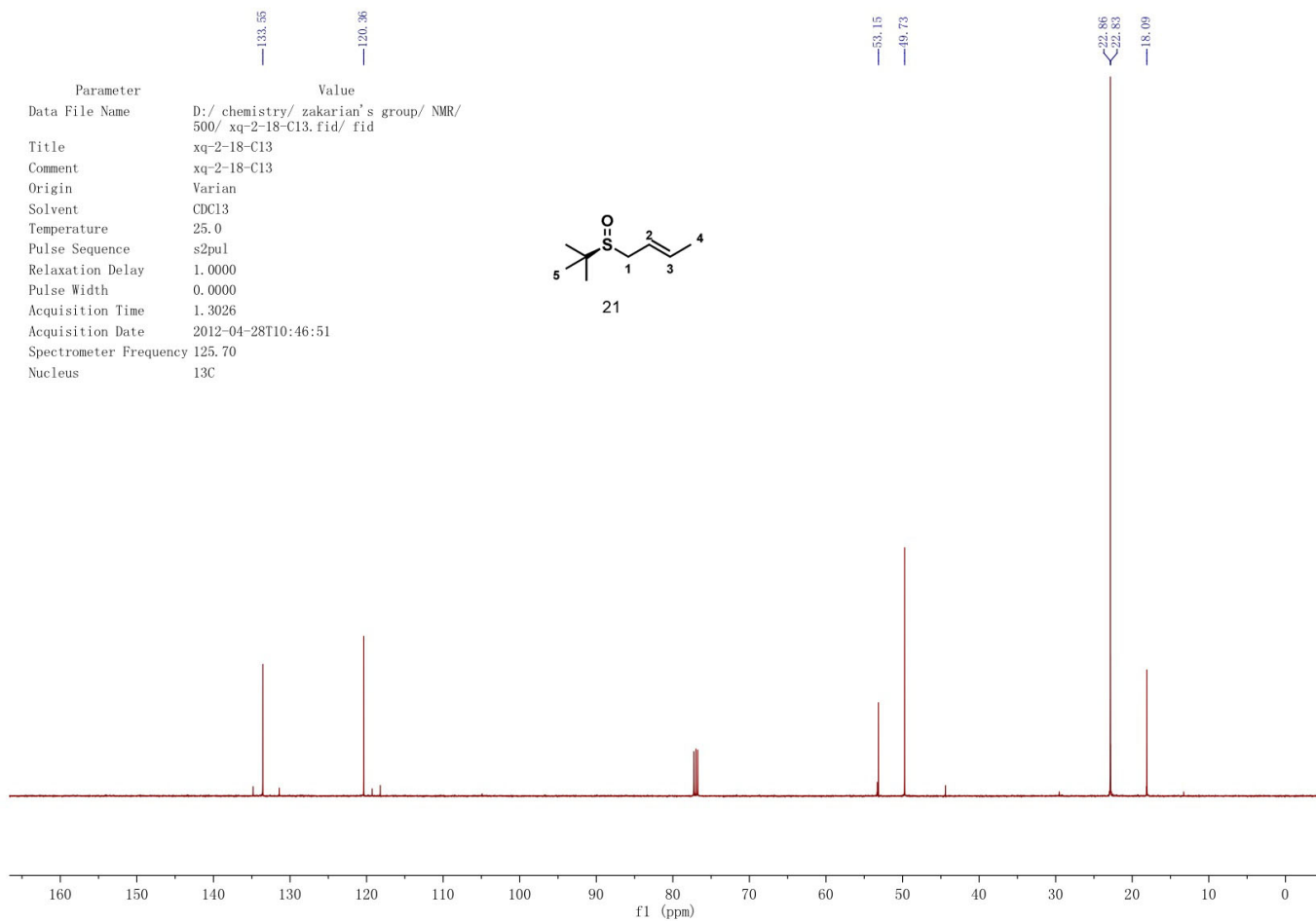
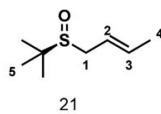




Parameter	Value
Data File Name	D:/ chemistry/ zakarian's group/ NMR/ 500/ xq-2-18.fid/ fid
Title	xq-2-18
Comment	xq-2-18
Origin	Varian
Solvent	CDCl3
Temperature	25.0
Pulse Sequence	s2pul
Relaxation Delay	4.8000
Pulse Width	0.0000
Acquisition Time	2.5001
Acquisition Date	2012-04-28T10:45:39
Spectrometer Frequency	499.86
Nucleus	1H



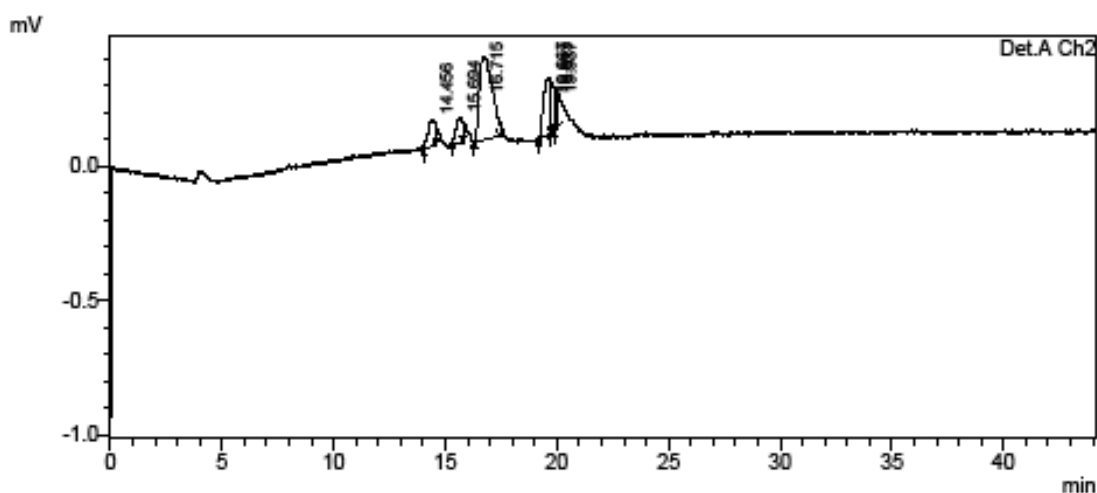
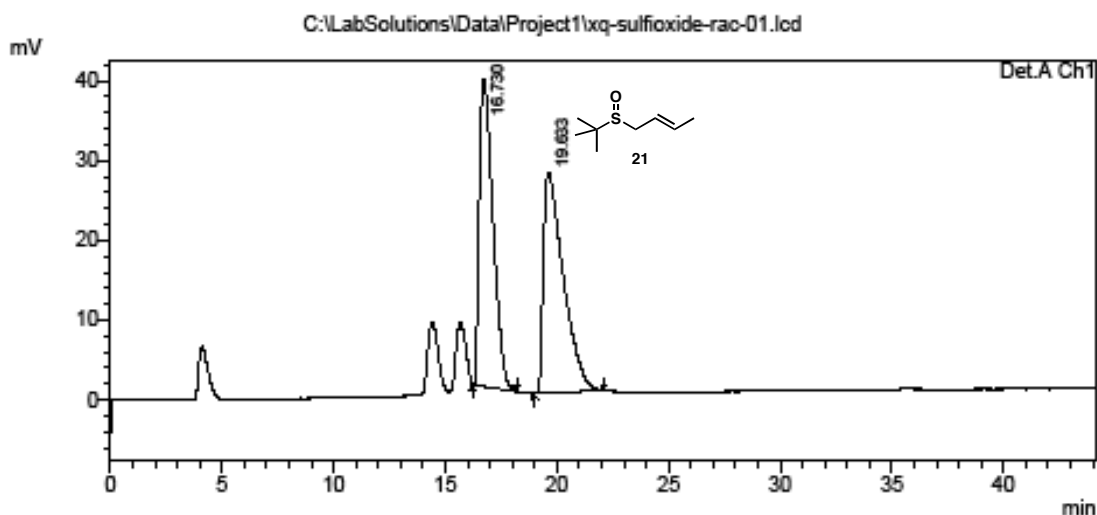
Parameter	Value
Data File Name	D:/ chemistry/ zakarian's group/ NMR/ 500/ xq-2-18-C13.fid/ fid
Title	xq-2-18-C13
Comment	xq-2-18-C13
Origin	Varian
Solvent	CDCl3
Temperature	25.0
Pulse Sequence	s2pul
Relaxation Delay	1.0000
Pulse Width	0.0000
Acquisition Time	1.3026
Acquisition Date	2012-04-28T10:46:51
Spectrometer Frequency	125.70
Nucleus	13C



==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\xq-sulfoxide-rac-01.lcd

Acquired by : Admin
 Sample Name : xq-sulfoxide-rac
 Sample ID : xq-sulfoxide-rac
 Vial # :
 Injection Volume : 25 uL
 Data File Name : xq-sulfoxide-rac-01.lcd
 Method File Name : JB-test-1.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 5/4/2012 8:40:22 PM
 Data Processed : 7/26/2012 4:33:16 PM 2% iPrOH-hexane
 1 ml/min
 1 mg/ml concentration
 30 uL injection
 200 nm
 chiral-AD-H
 Chromatogram



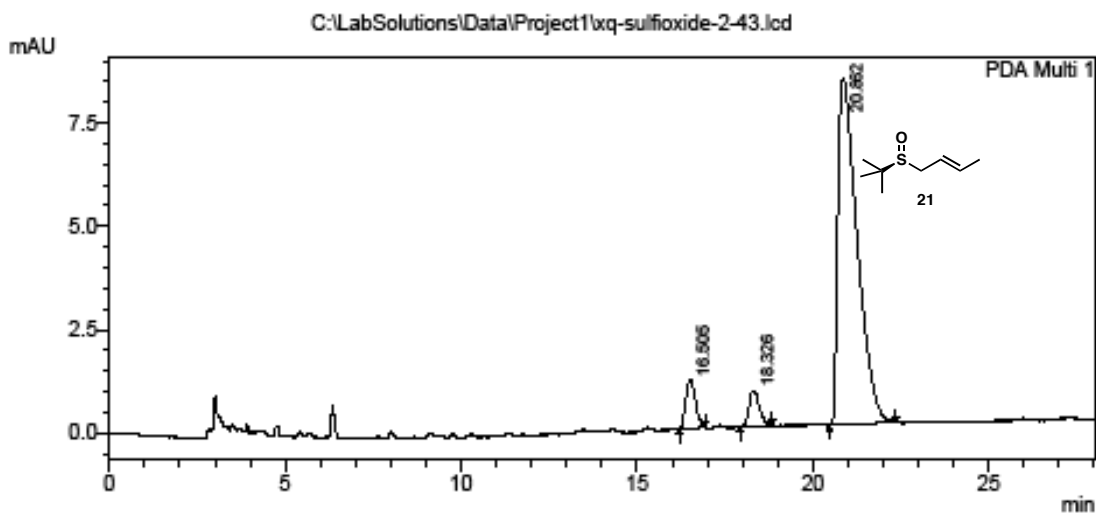
1 Det.A Ch1/200nm
 2 Det.A Ch2/254nm

PeakTable

==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\xq-sulfoxide-2-43.lcd

2% iPrOH in Hex
 1ml/min AD-H
 1 mg/ml
 20 uL Acquired by : Admin
 Sample Name : xq-sulfoxide-2-43.lcd
 Sample ID : xq-sulfoxide-2-43
 Vial # :
 Injection Volume : 20 uL
 Data File Name : xq-sulfoxide-2-43.lcd
 Method File Name : hk-standard.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 5/21/2012 12:07:47 PM
 Data Processed : 5/21/2012 8:08:47 PM

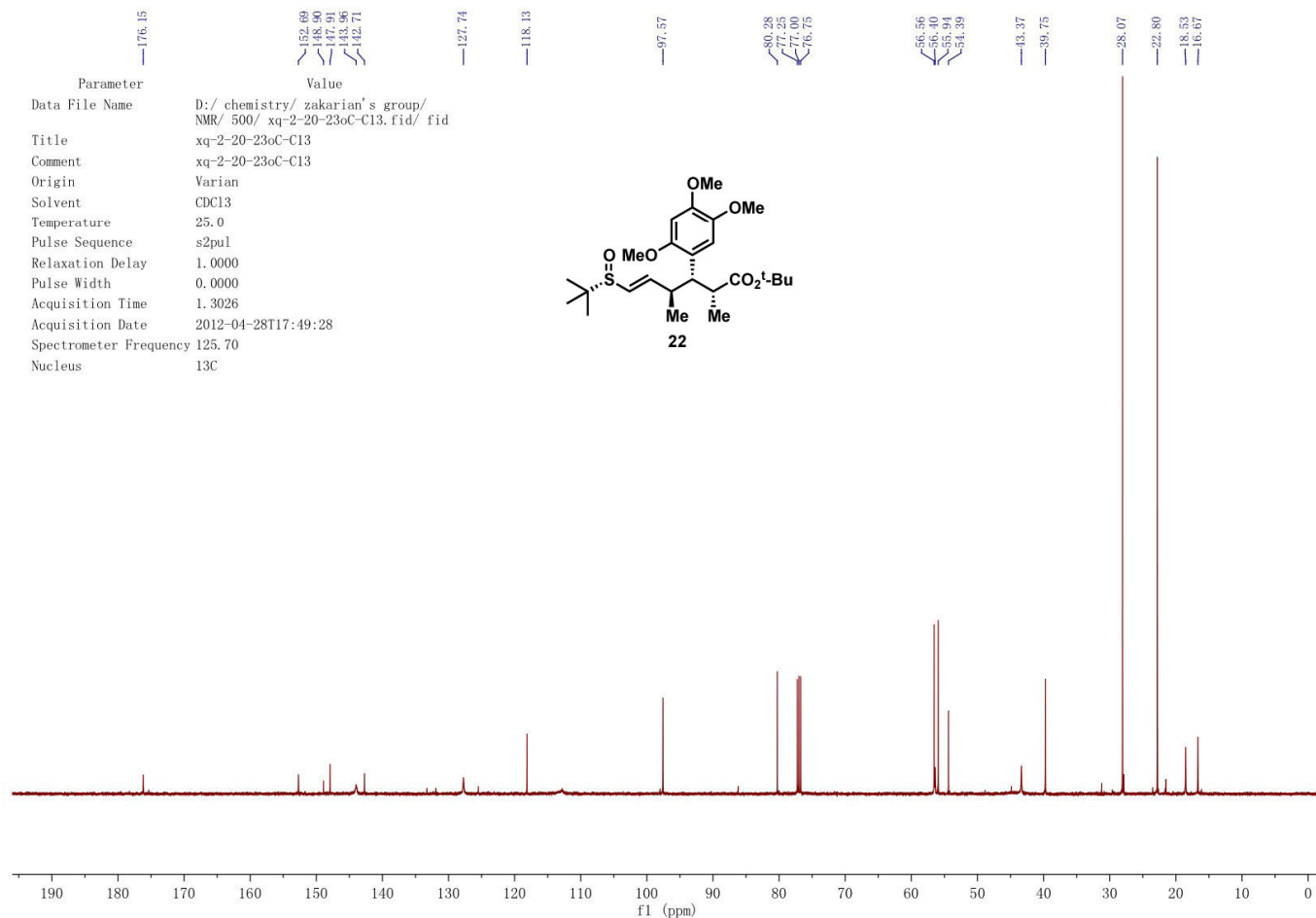
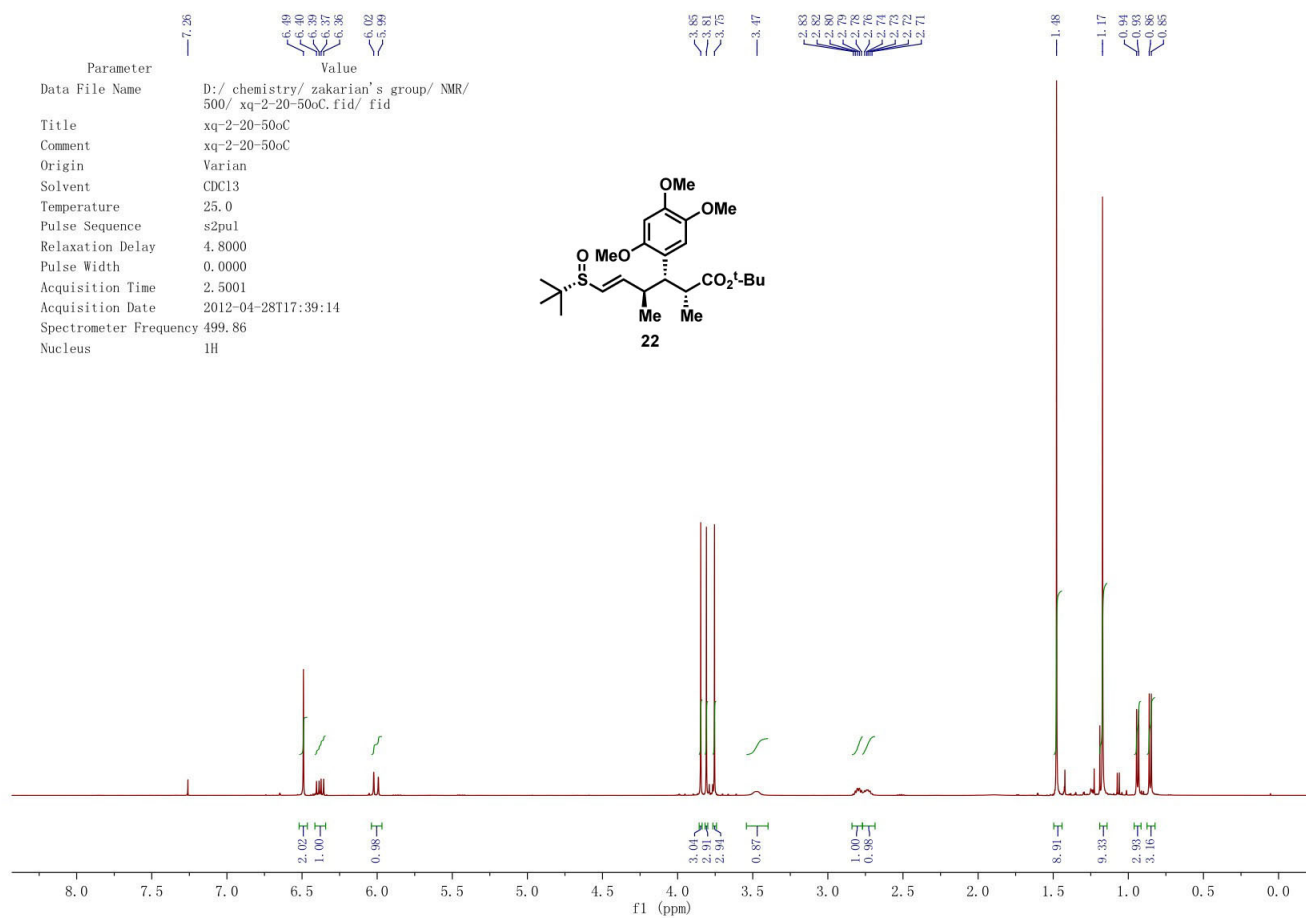


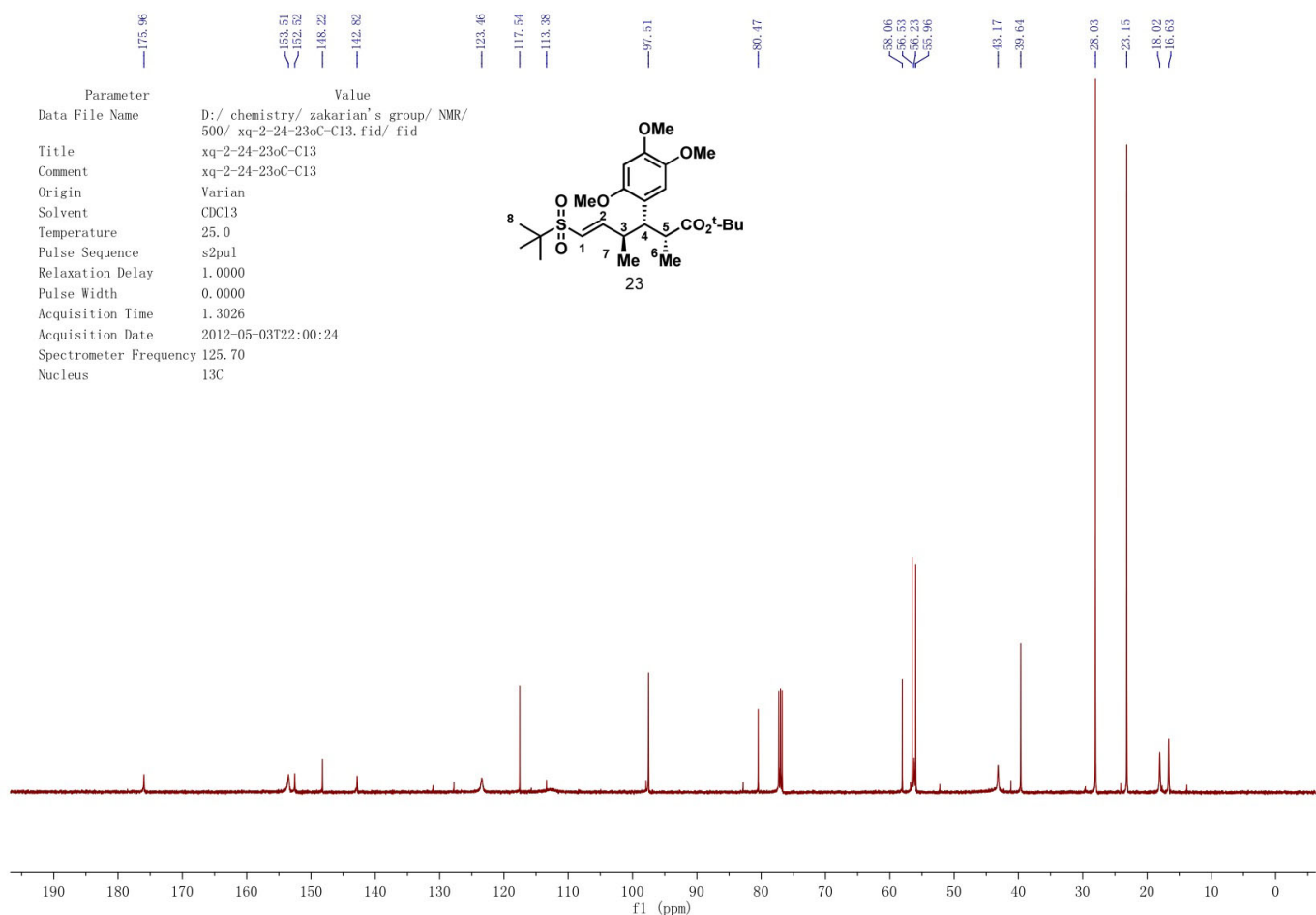
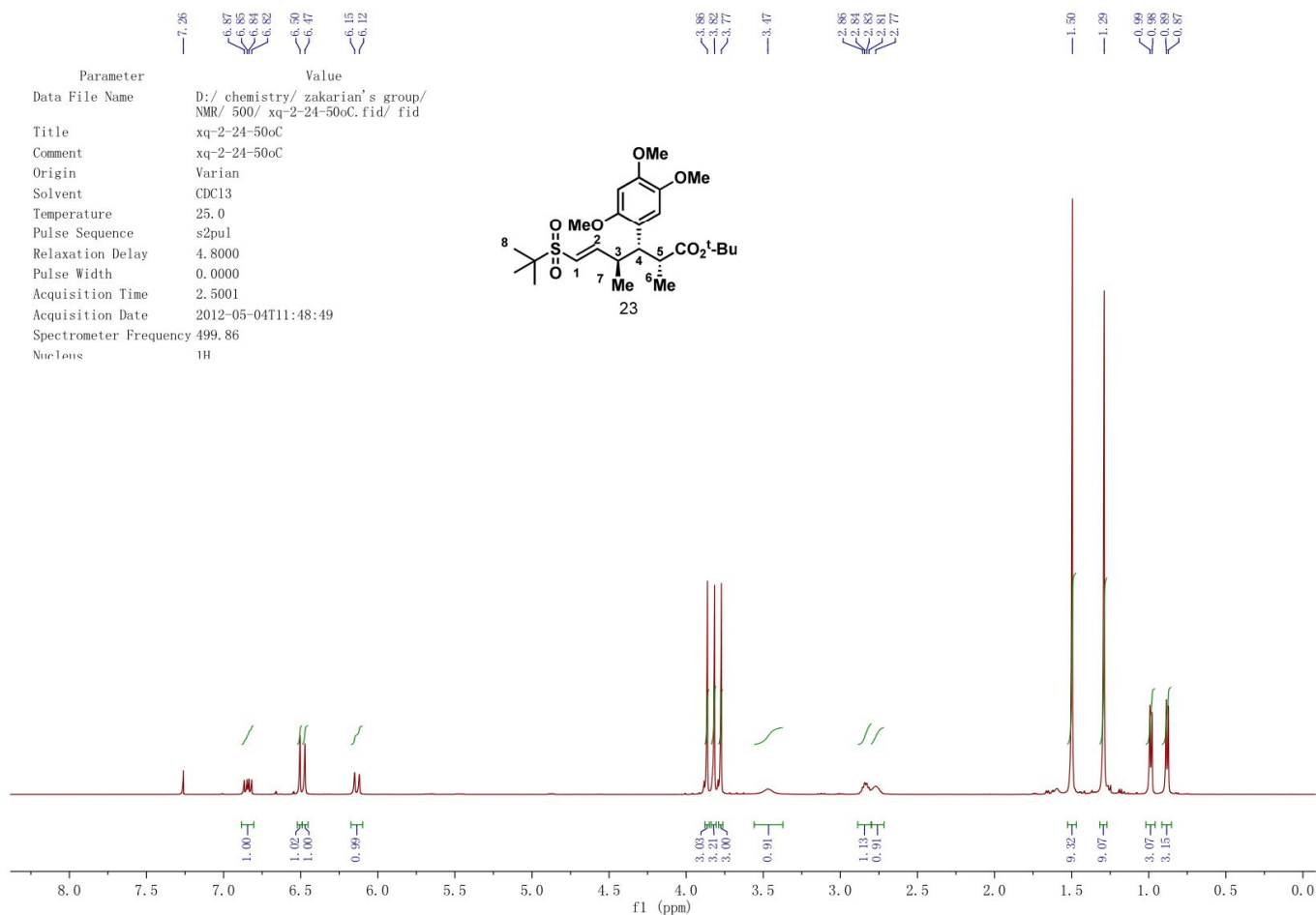
1 PDA Multi 1/254nm 4nm

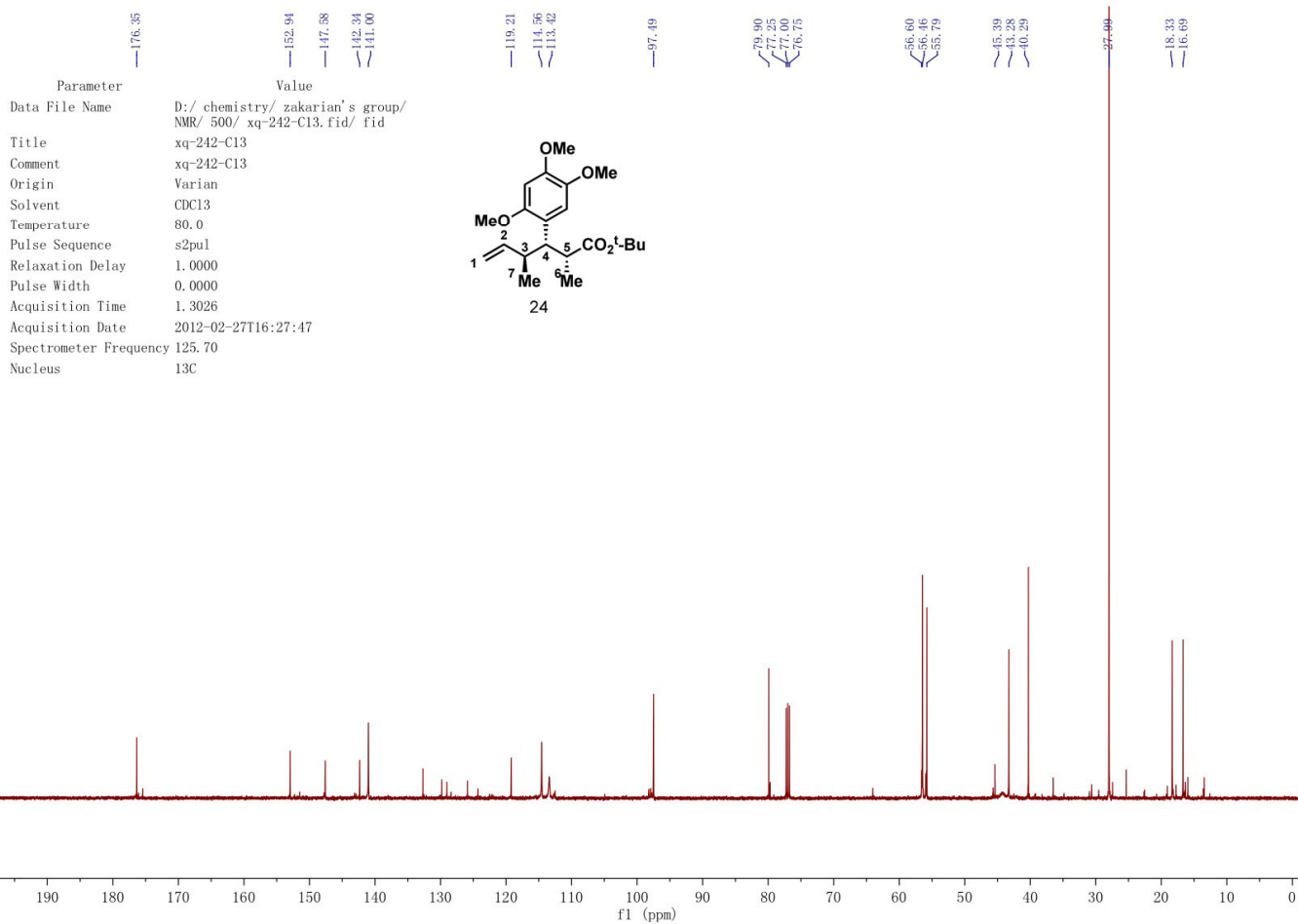
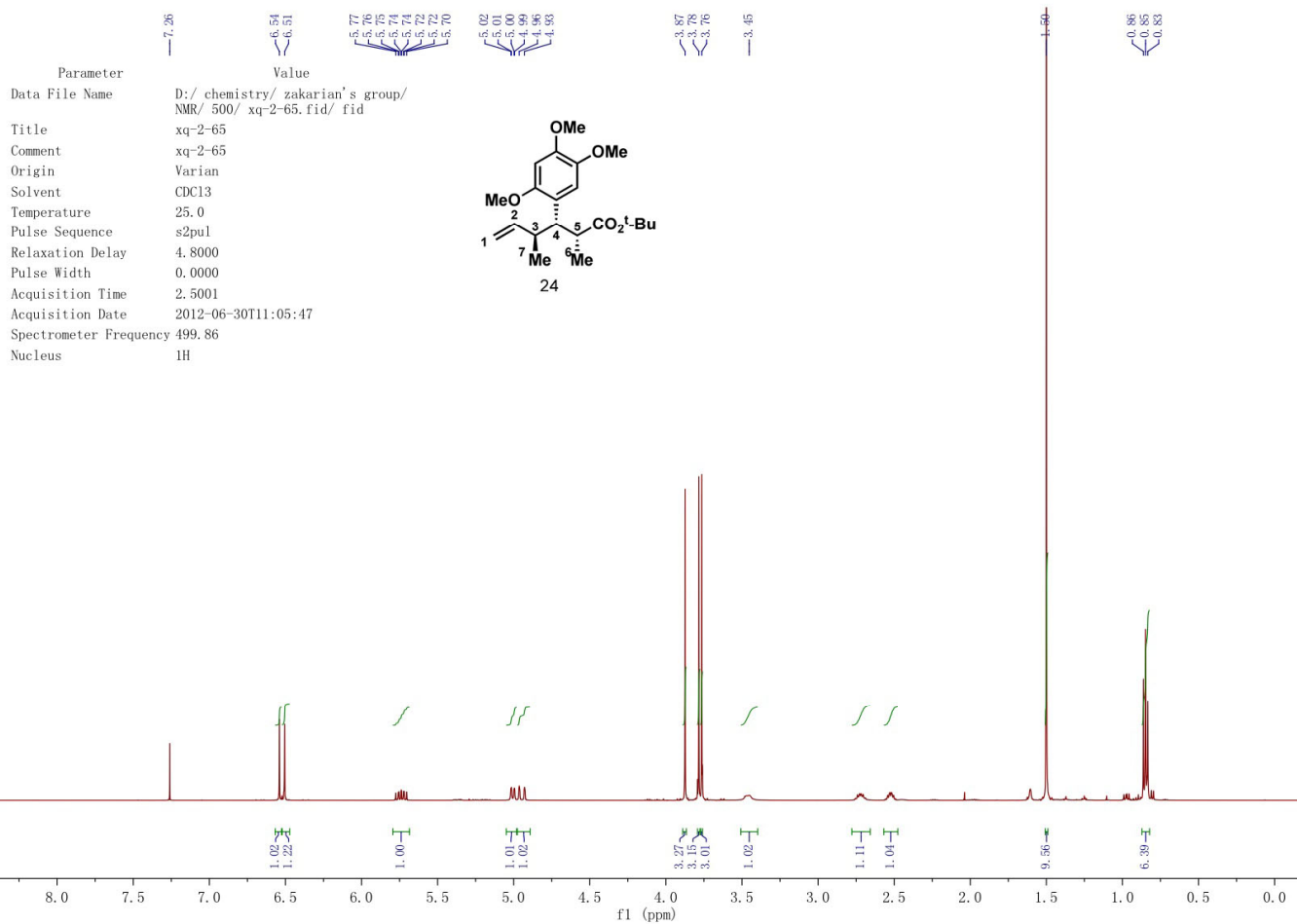
PeakTable

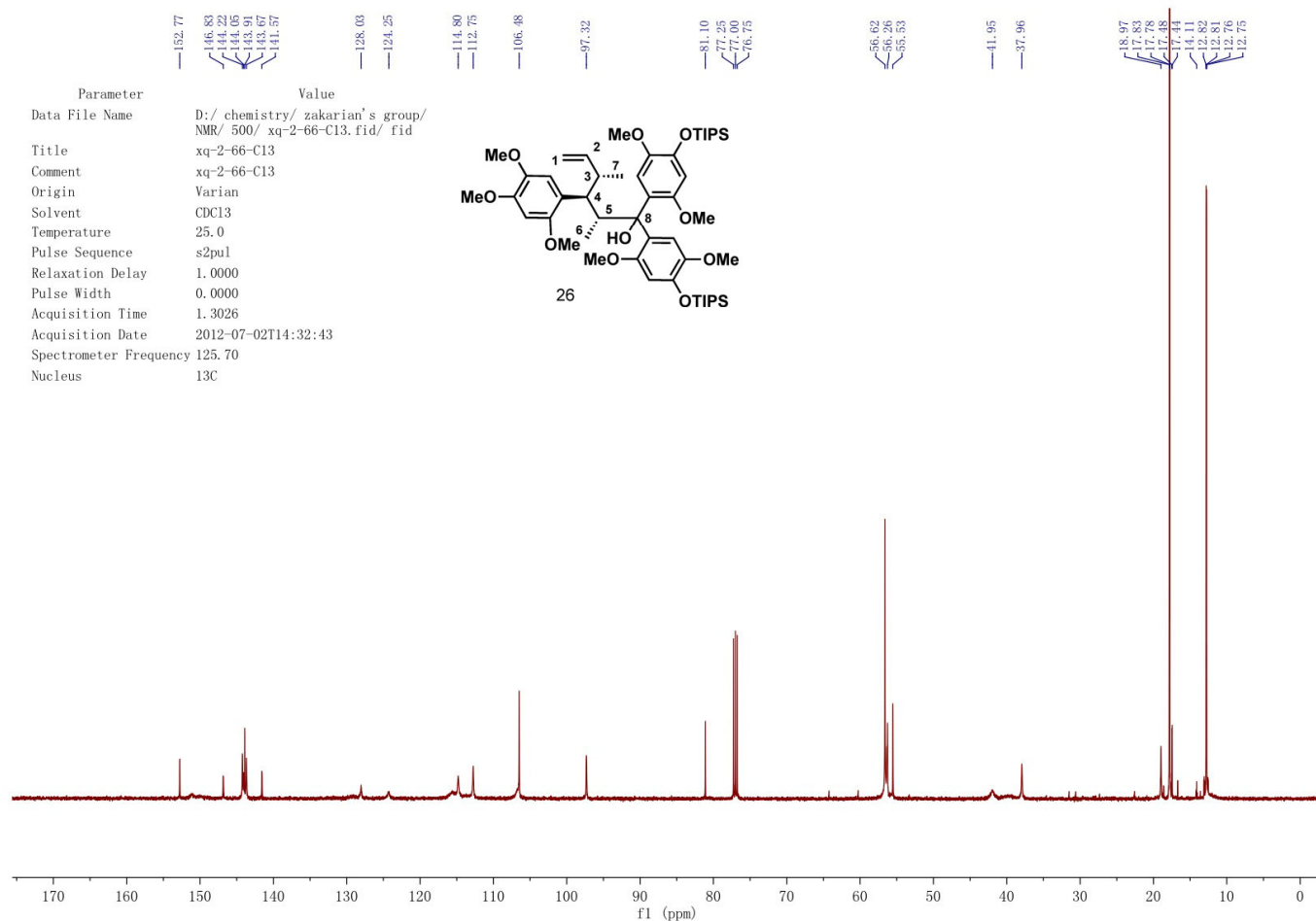
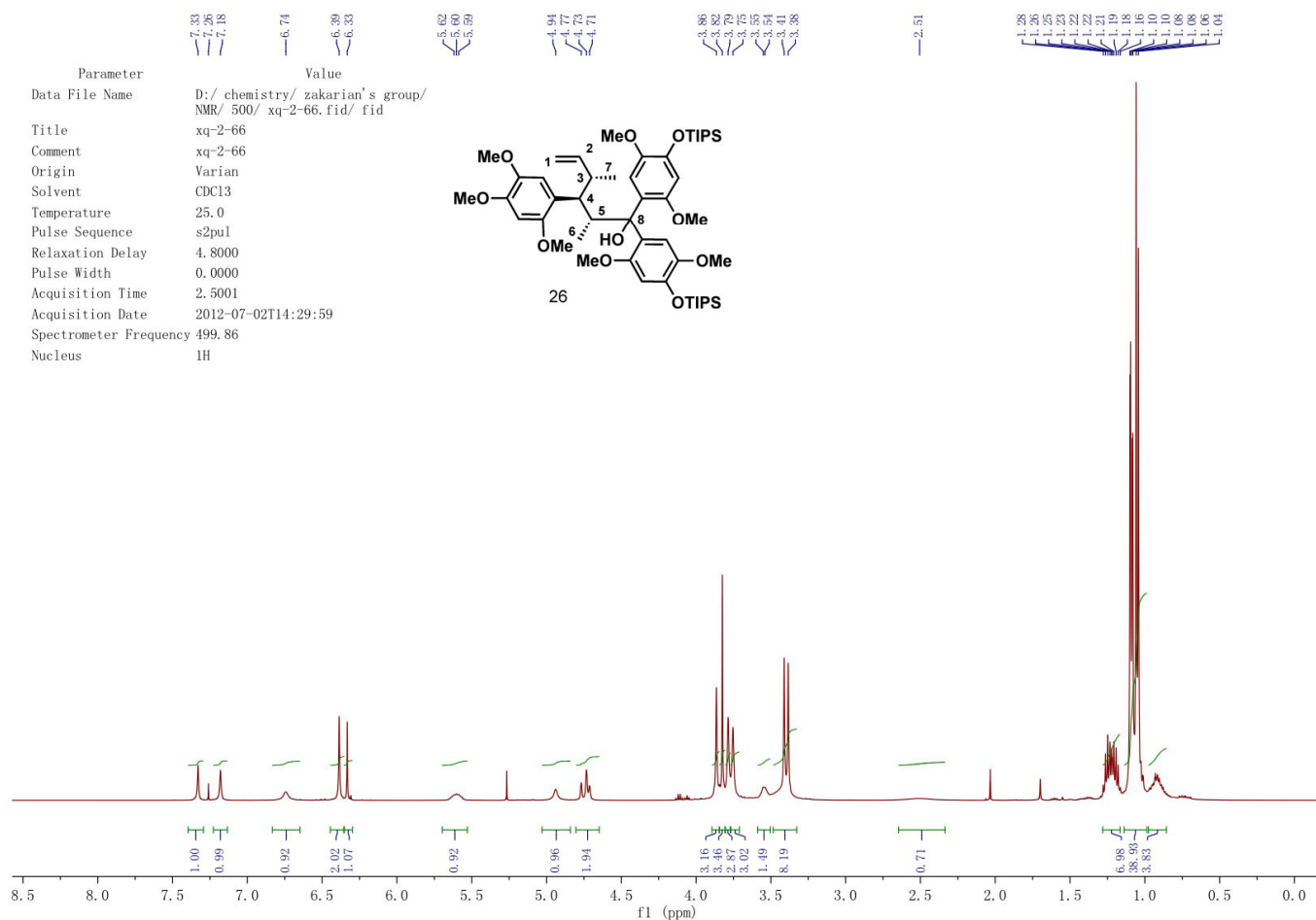
PDA Ch1 254nm 4nm

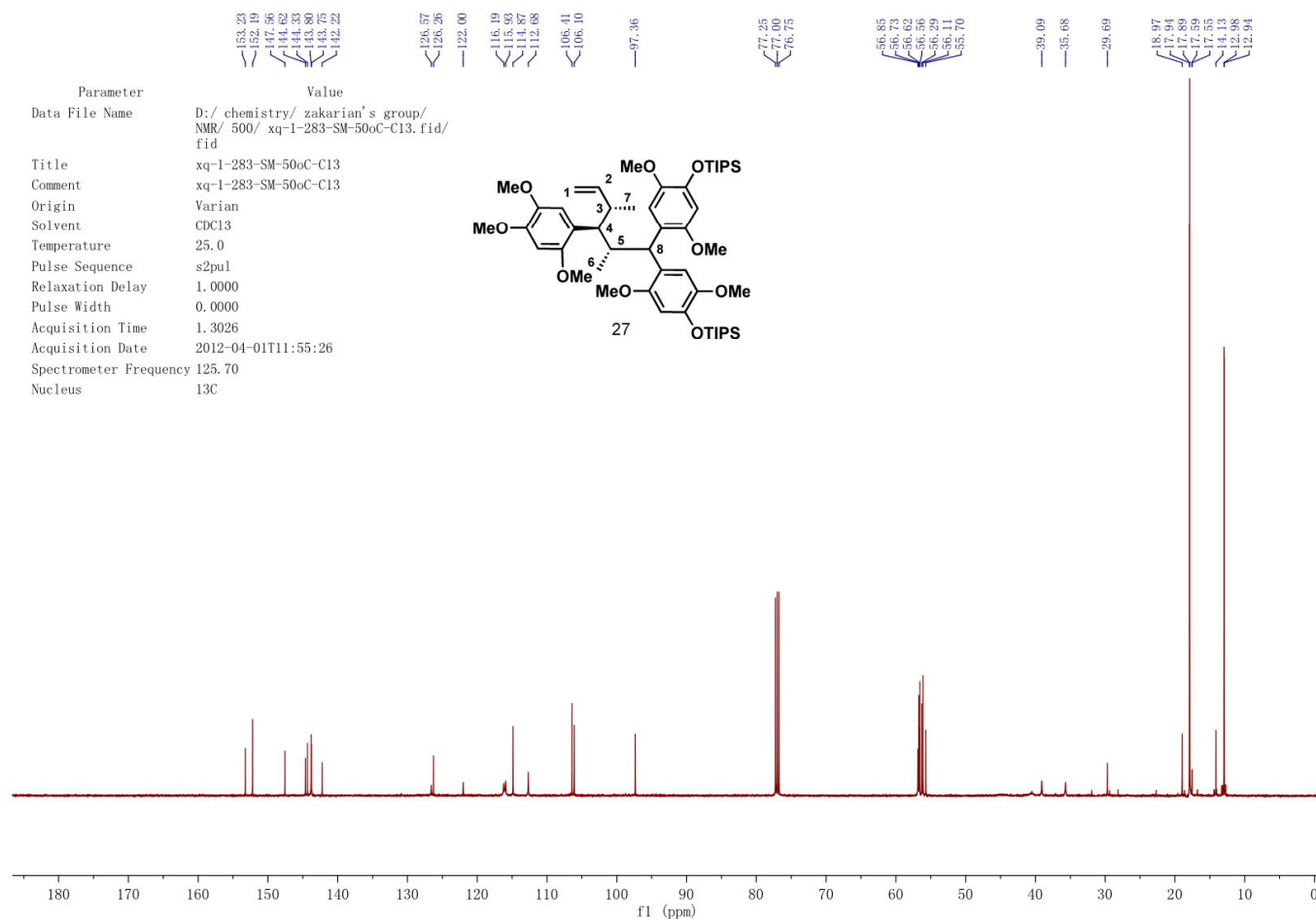
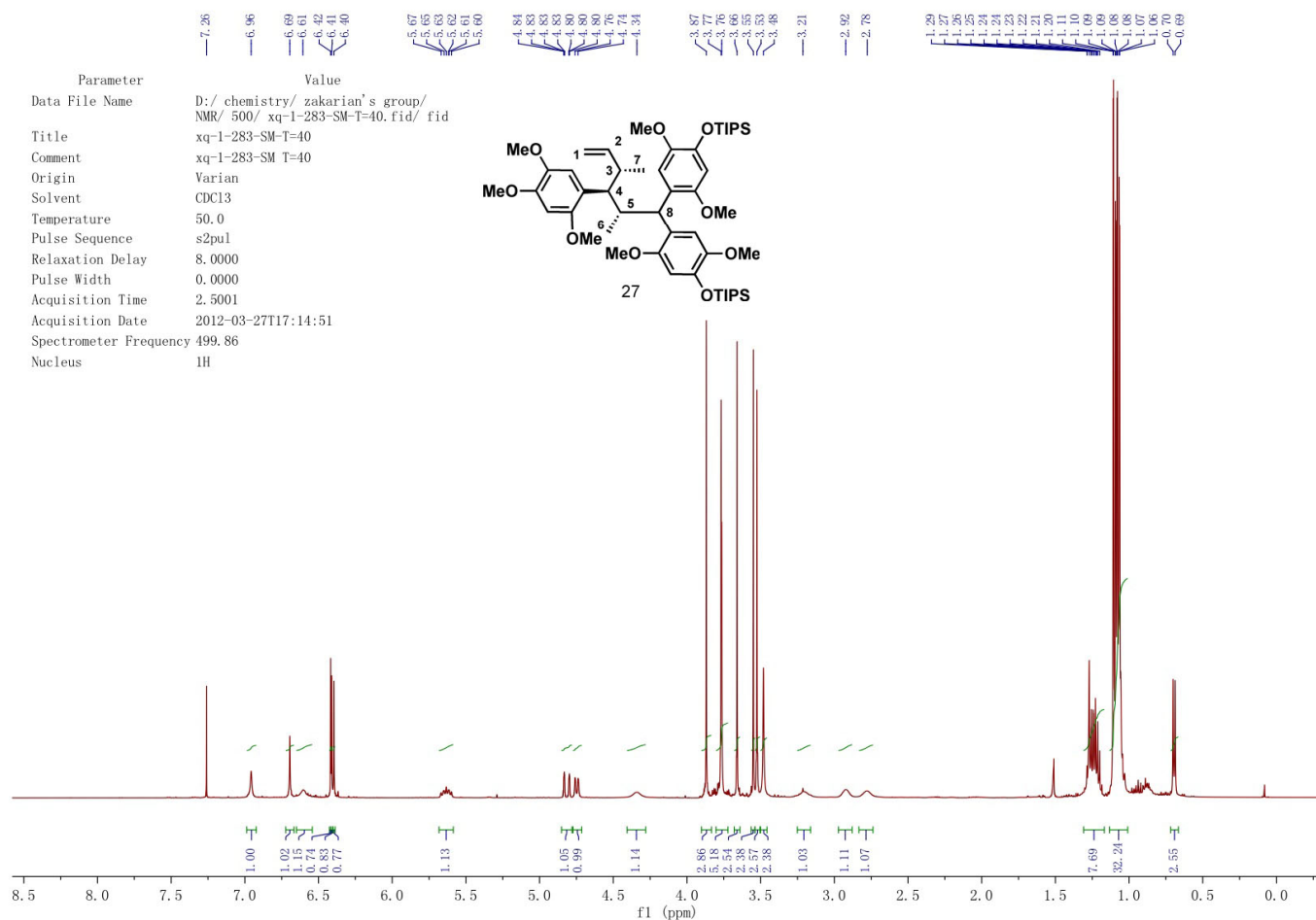
Peak#	Ret. Time	Area	Height	Area %	Height %
1	16.505	22128	1161	6.110	11.158
2	18.326	18122	859	5.004	8.258
3	20.862	321895	8382	88.886	80.584
Total		362145	10401	100.000	100.000



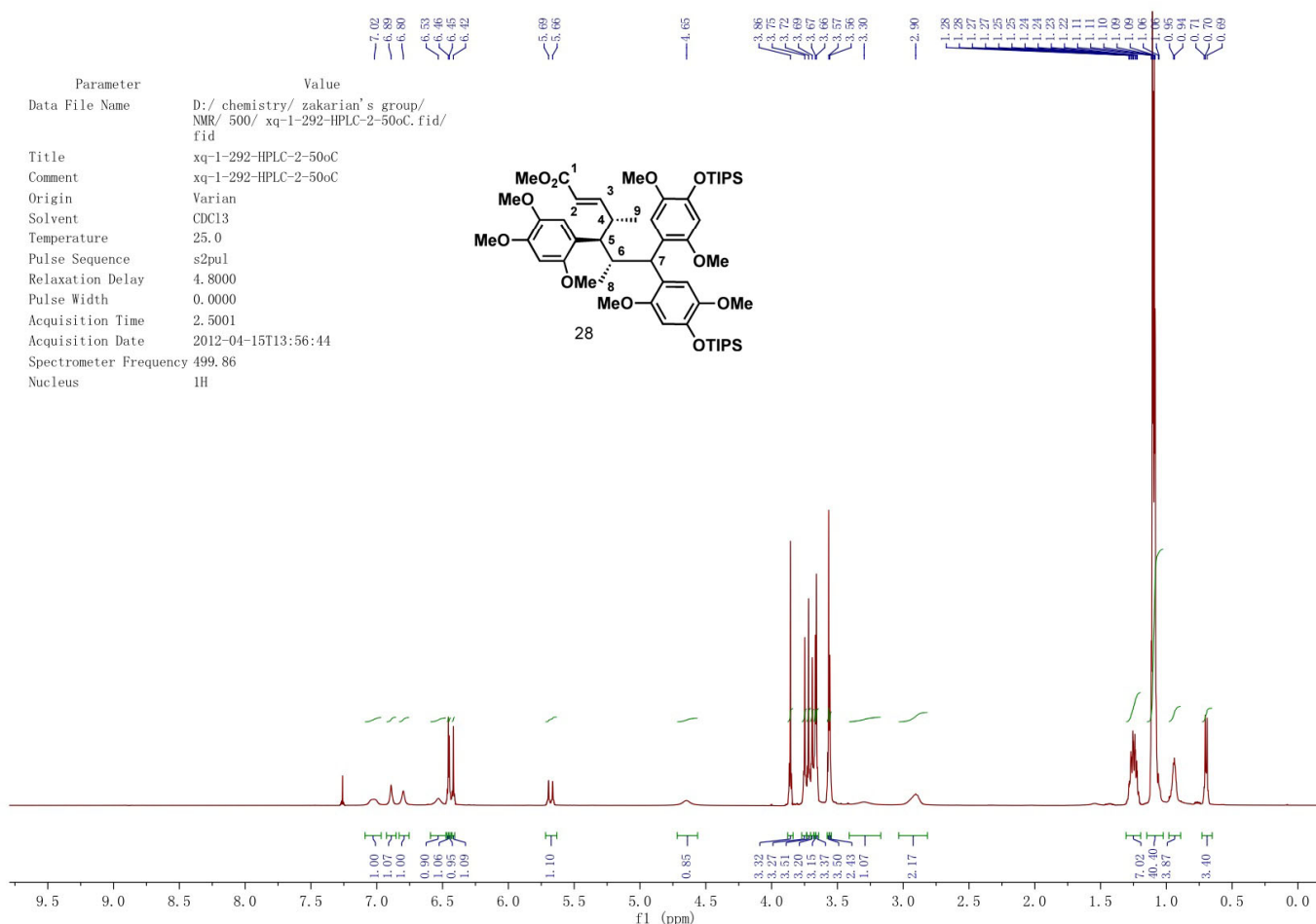
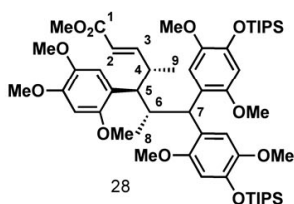




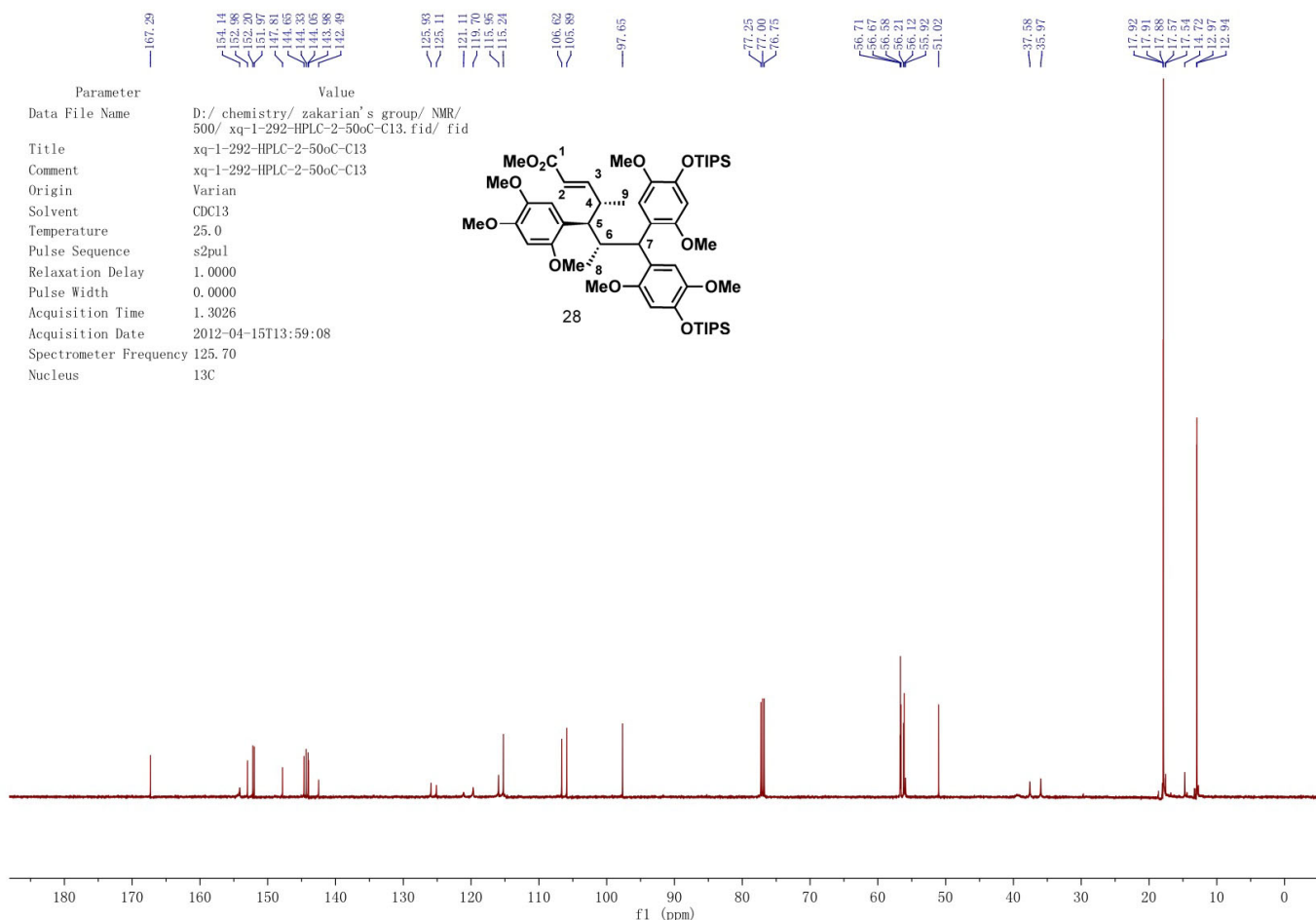
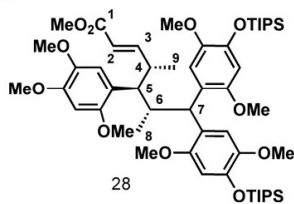


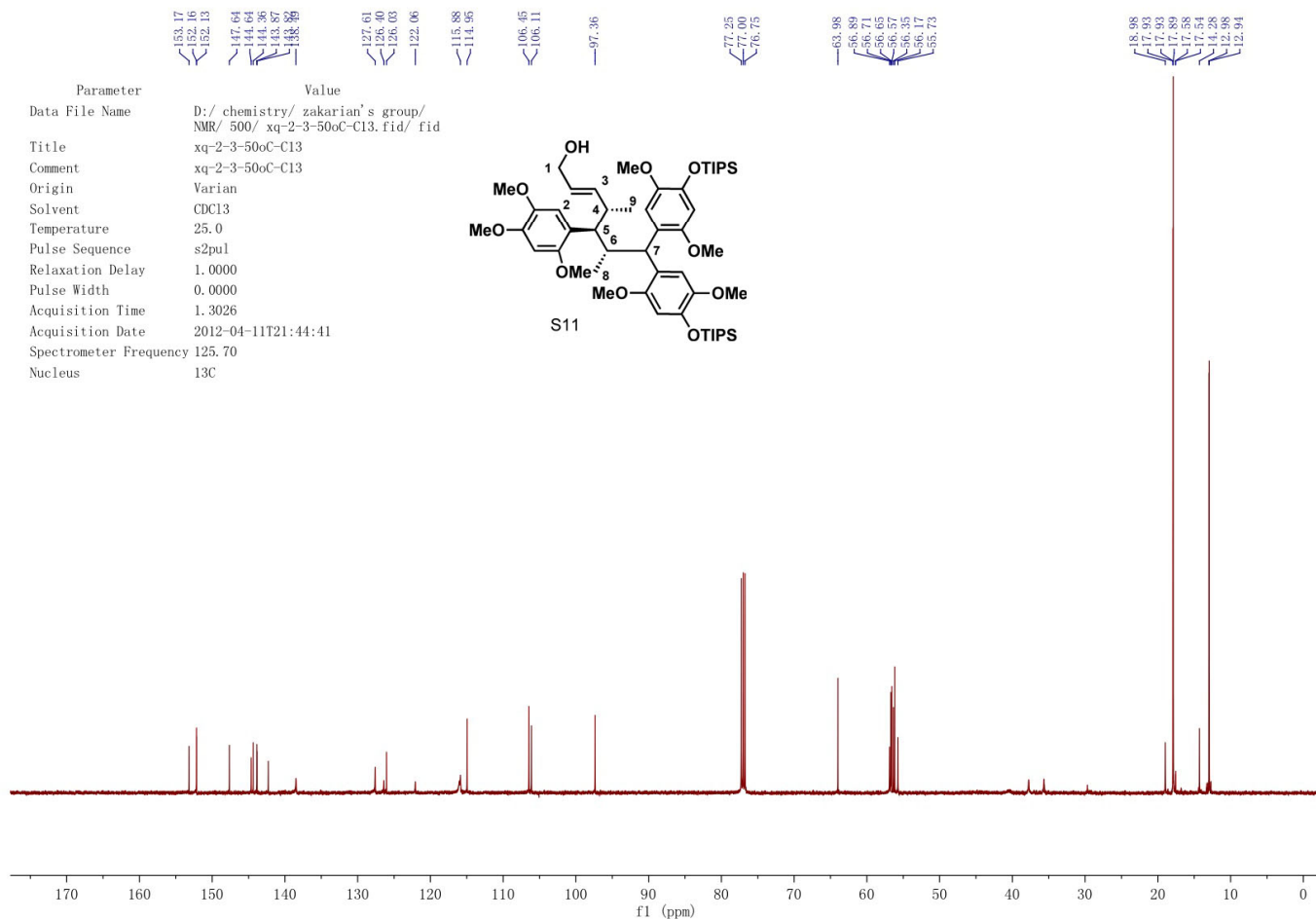
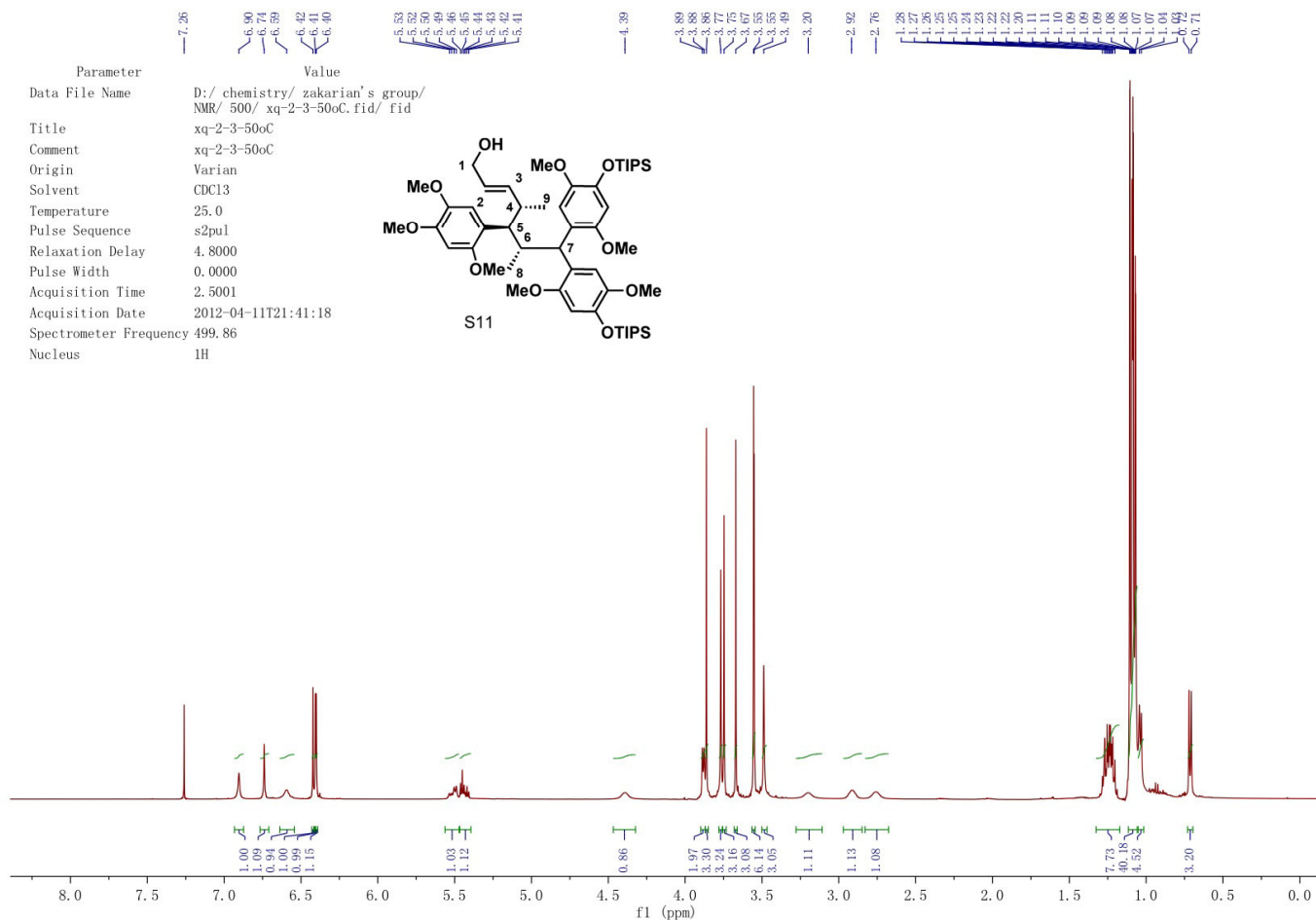


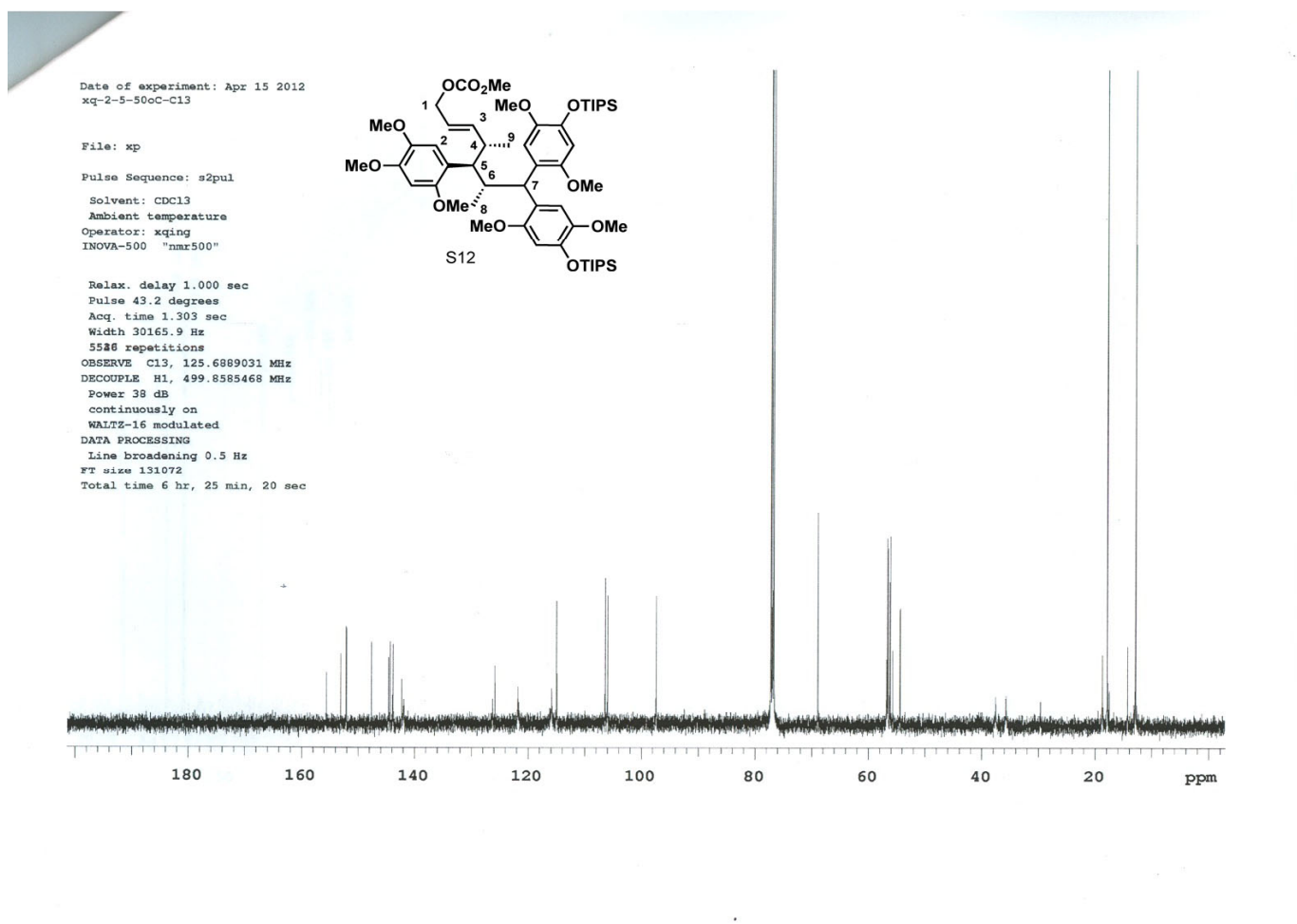
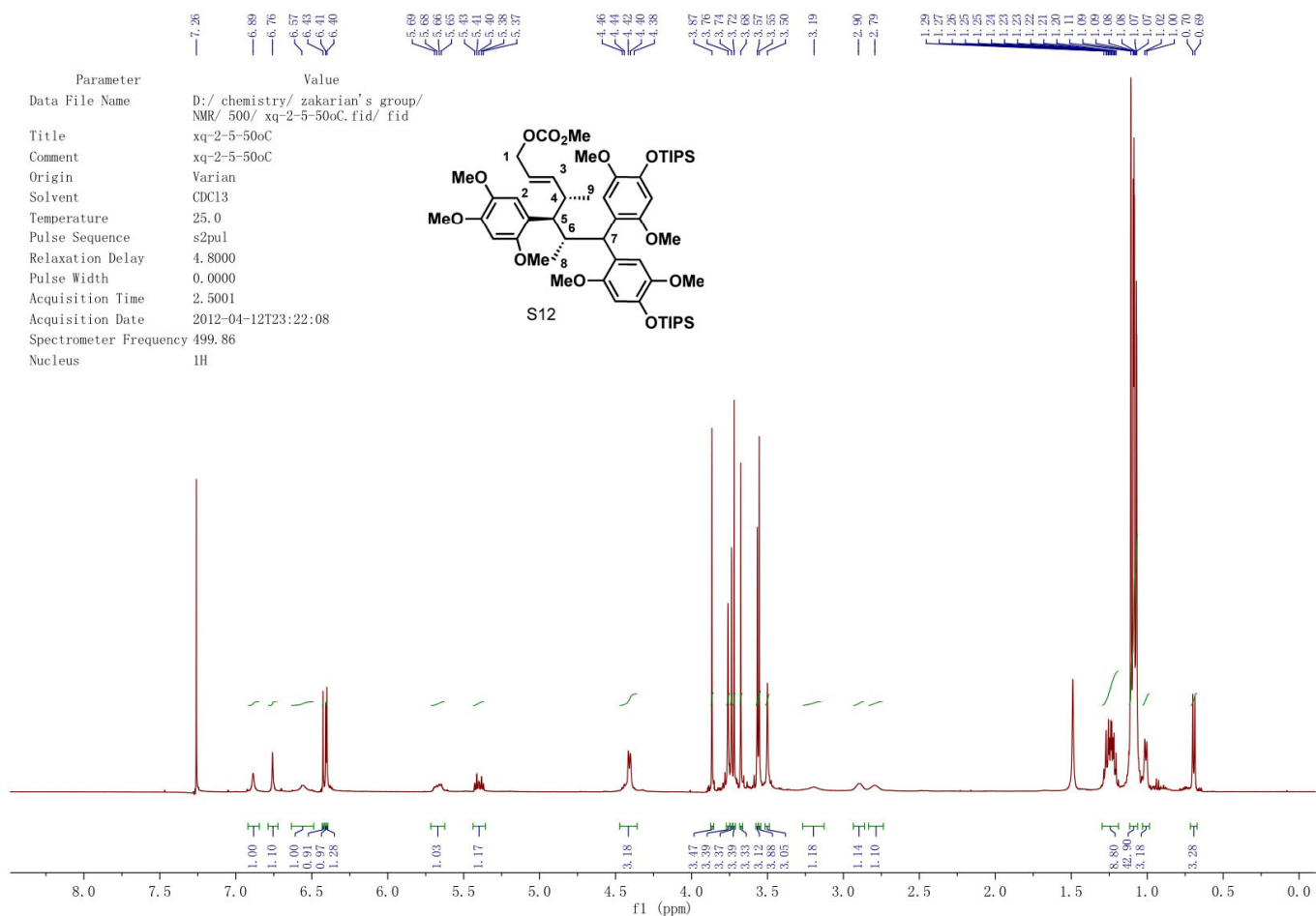
Parameter Value
 Data File Name D:/chemistry/zakarian's group/
 NMR/ 500/ xq-1-292-HPLC-2-50oC.fid/
 fid
 Title xq-1-292-HPLC-2-50oC
 Comment xq-1-292-HPLC-2-50oC
 Origin Varian
 Solvent CDCl3
 Temperature 25.0
 Pulse Sequence s2pul
 Relaxation Delay 4.8000
 Pulse Width 0.0000
 Acquisition Time 2.5001
 Acquisition Date 2012-04-15T13:56:44
 Spectrometer Frequency 499.86
 Nucleus 1H

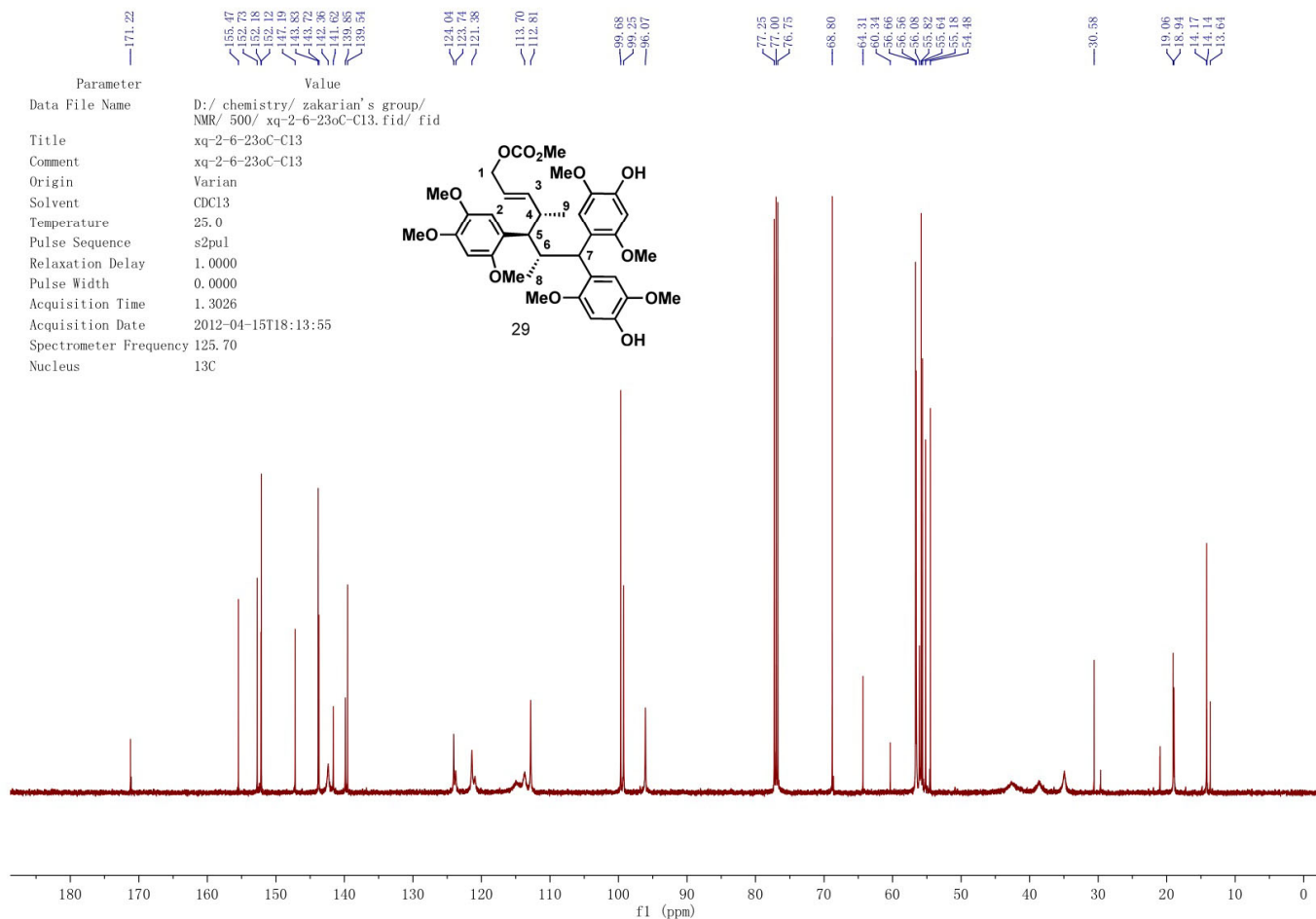
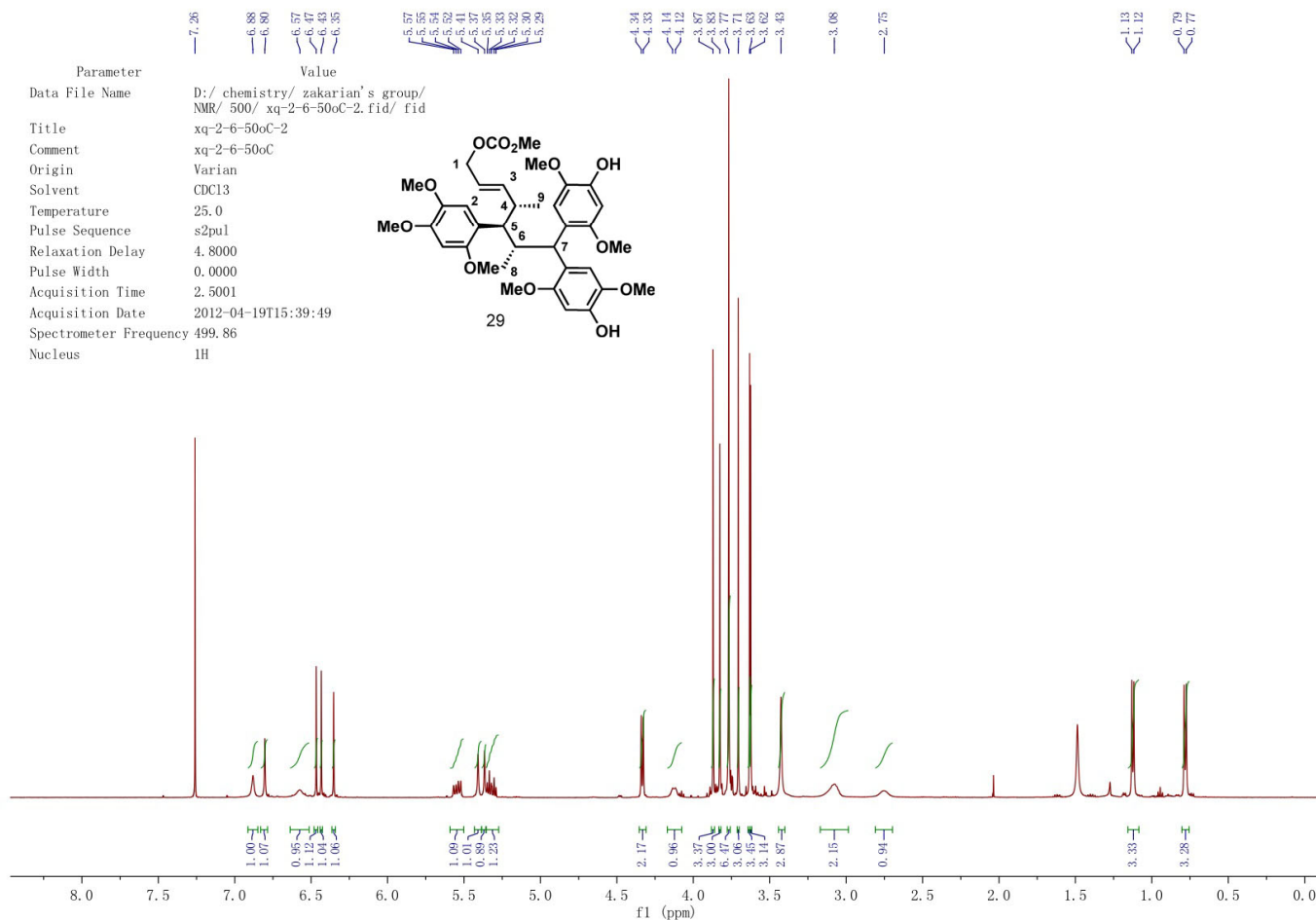


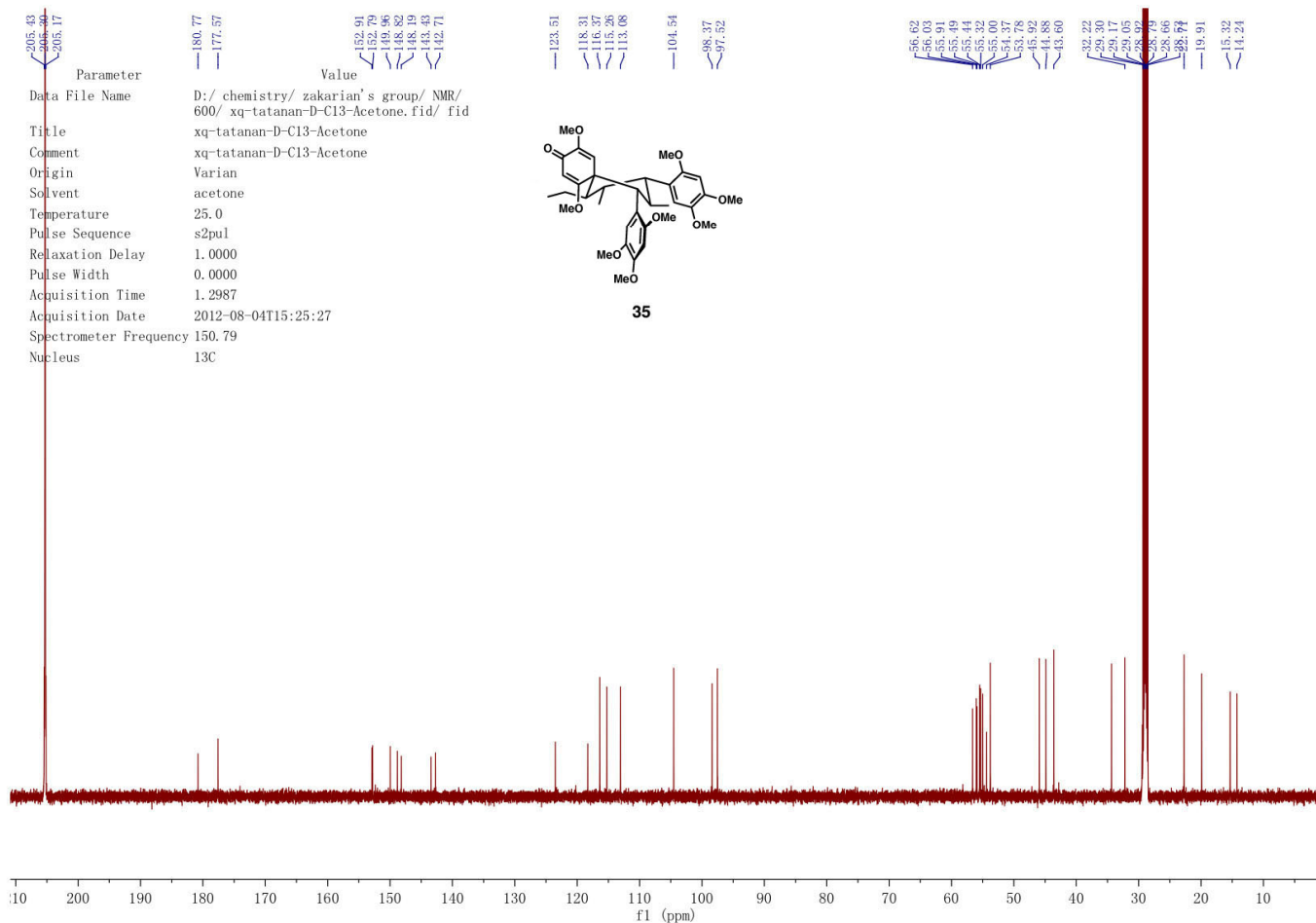
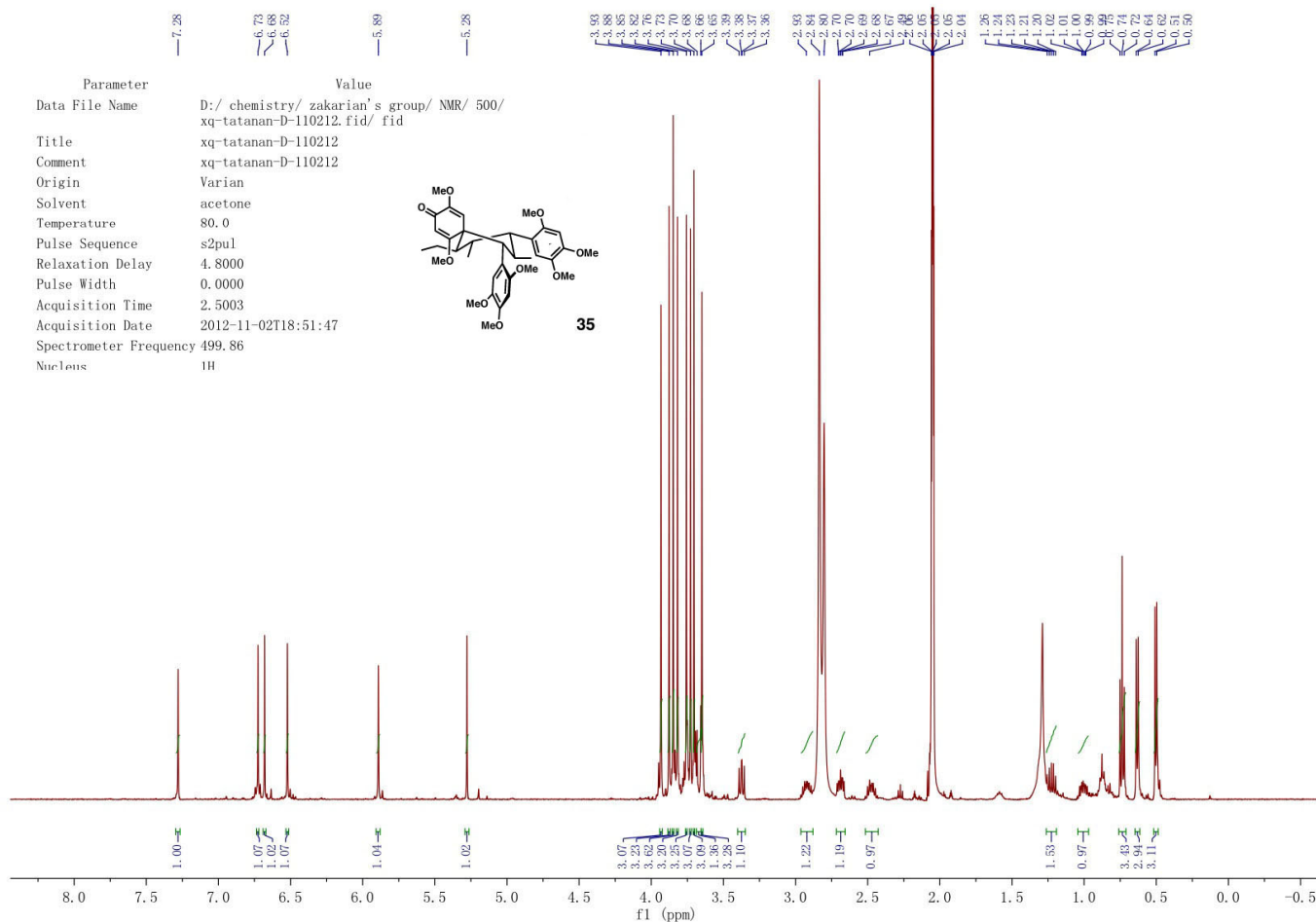
Parameter Value
 Data File Name D:/chemistry/zakarian's group/ NMR/
 500/ xq-1-292-HPLC-2-50oC-C13.fid/ fid
 Title xq-1-292-HPLC-2-50oC-C13
 Comment xq-1-292-HPLC-2-50oC-C13
 Origin Varian
 Solvent CDCl3
 Temperature 25.0
 Pulse Sequence s2pul
 Relaxation Delay 1.0000
 Pulse Width 0.0000
 Acquisition Time 1.3026
 Acquisition Date 2012-04-15T13:59:08
 Spectrometer Frequency 125.70
 Nucleus 13C

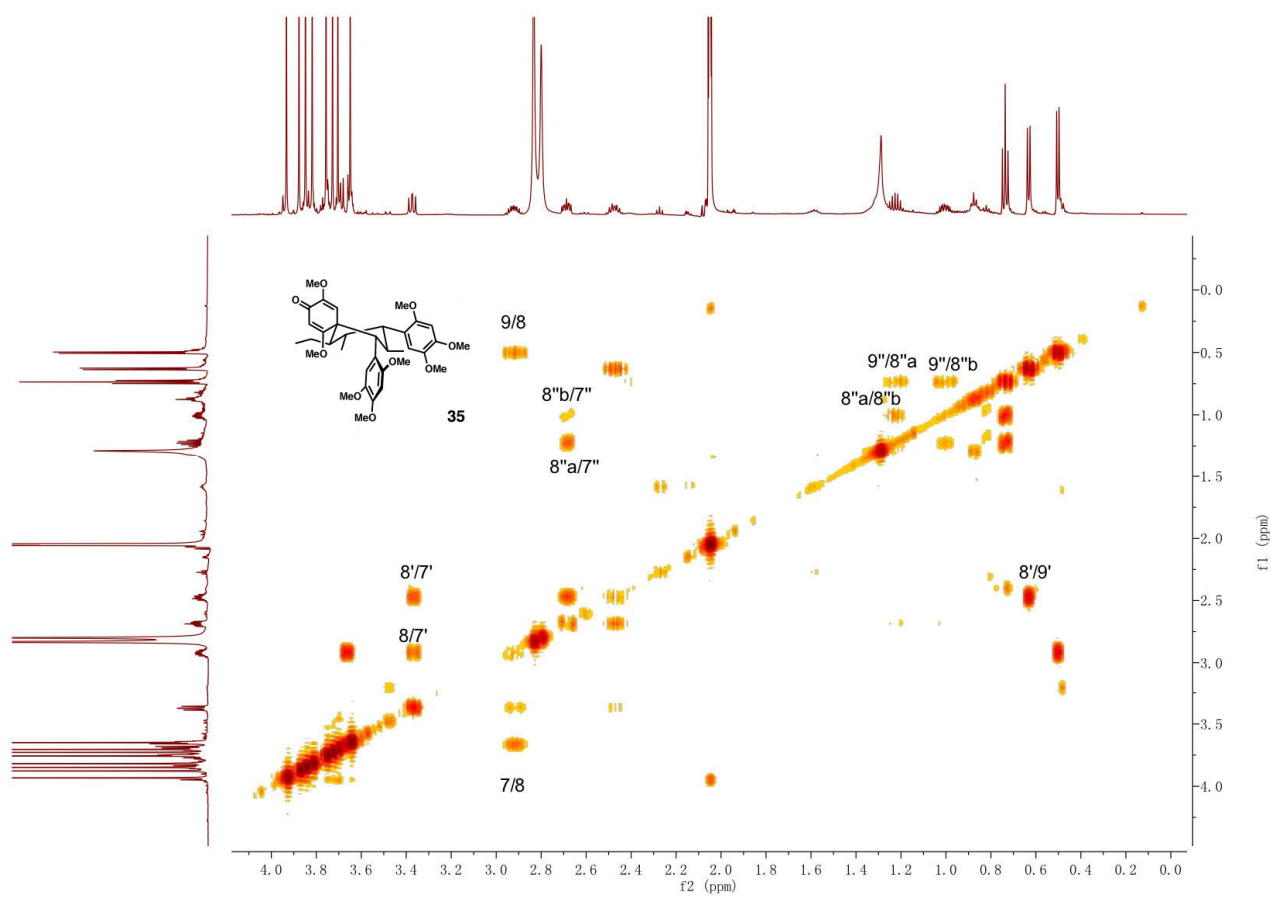
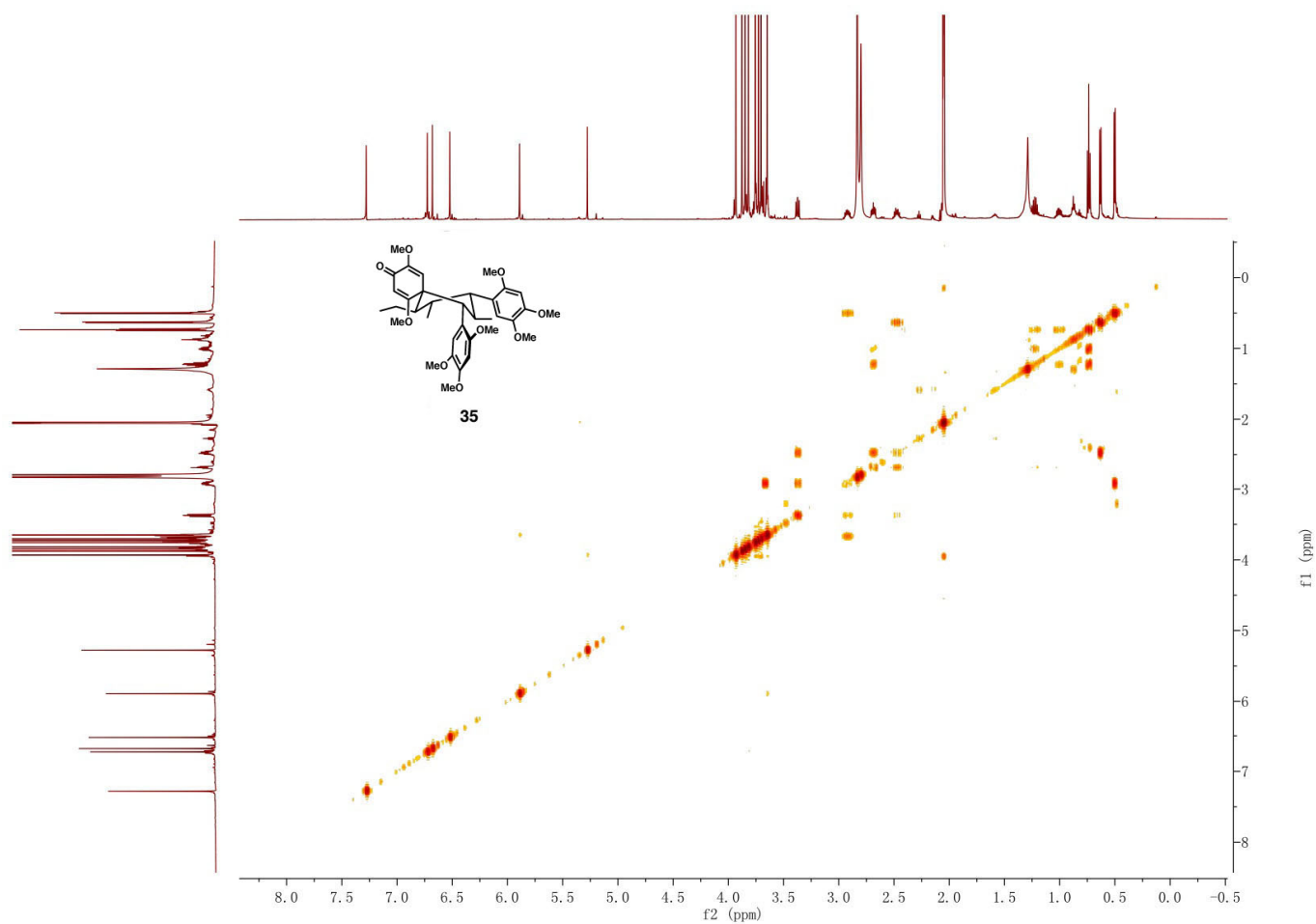


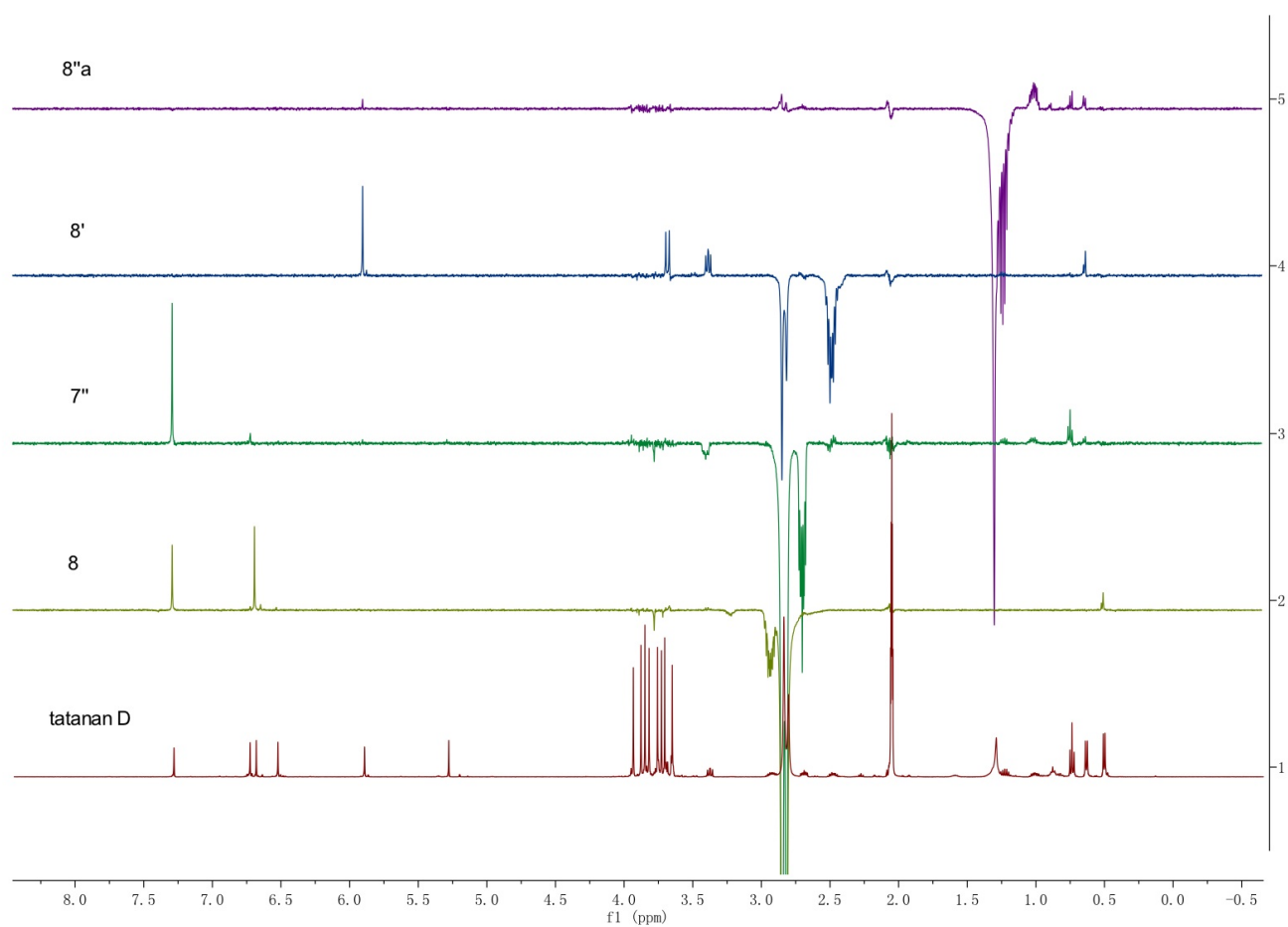
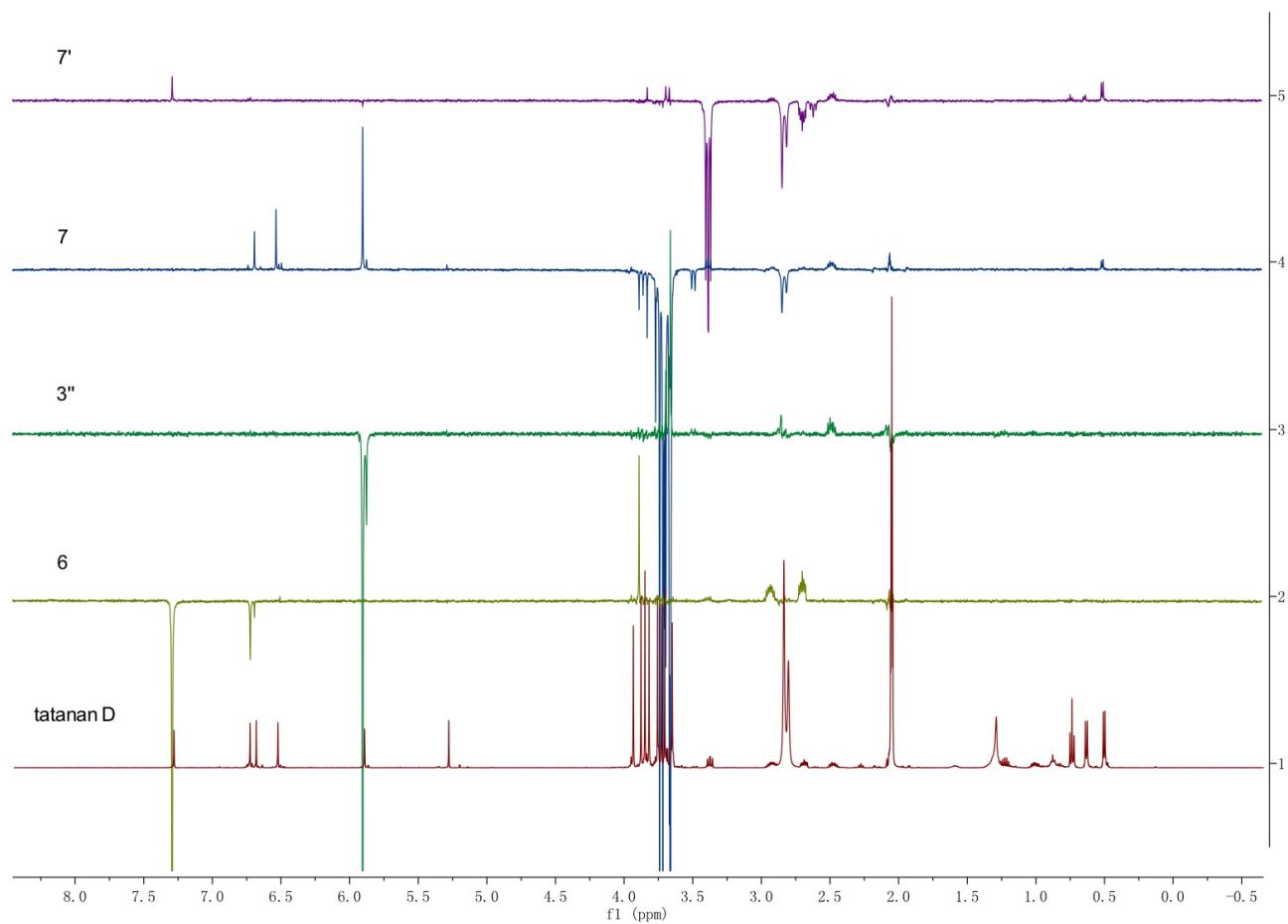


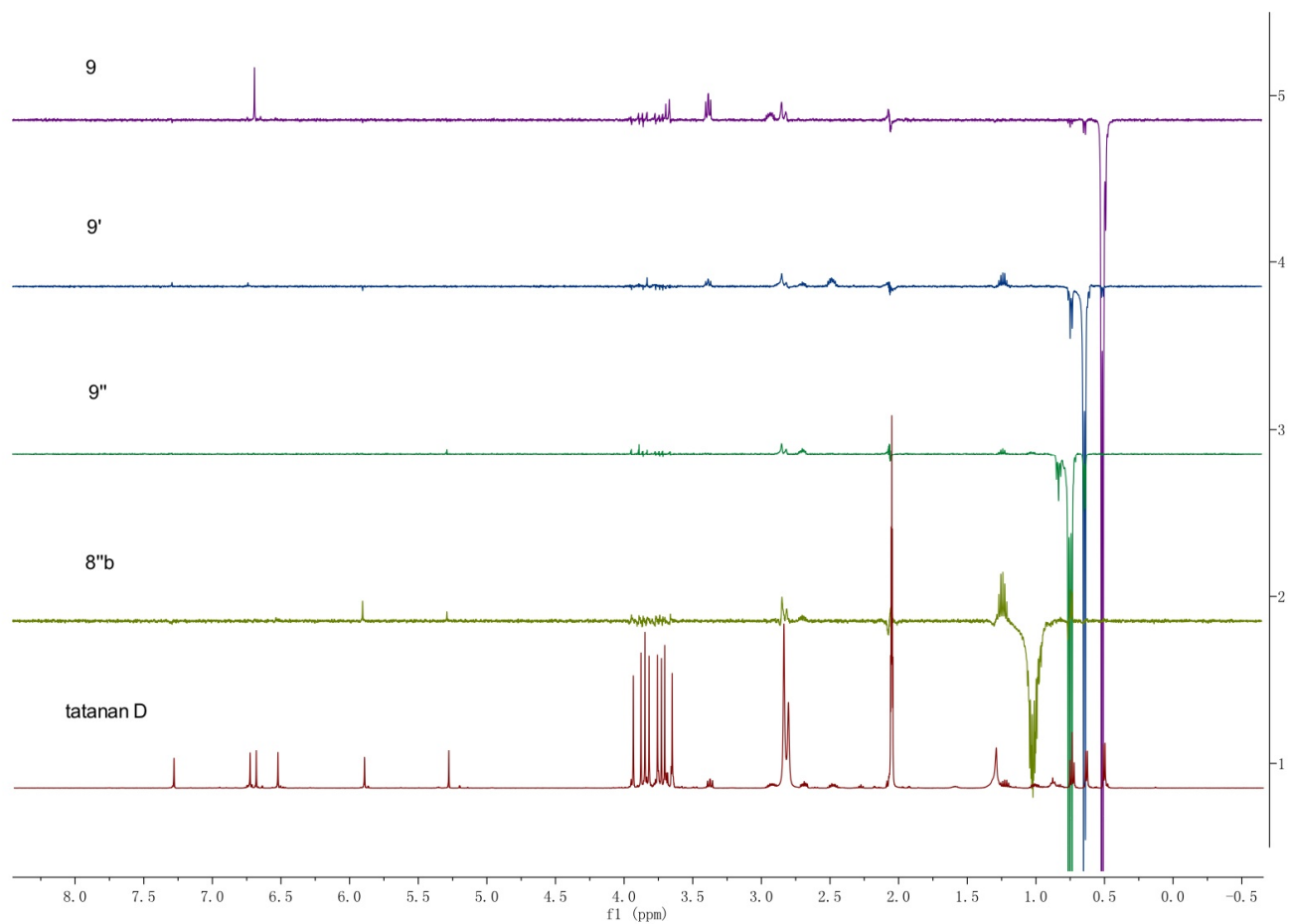


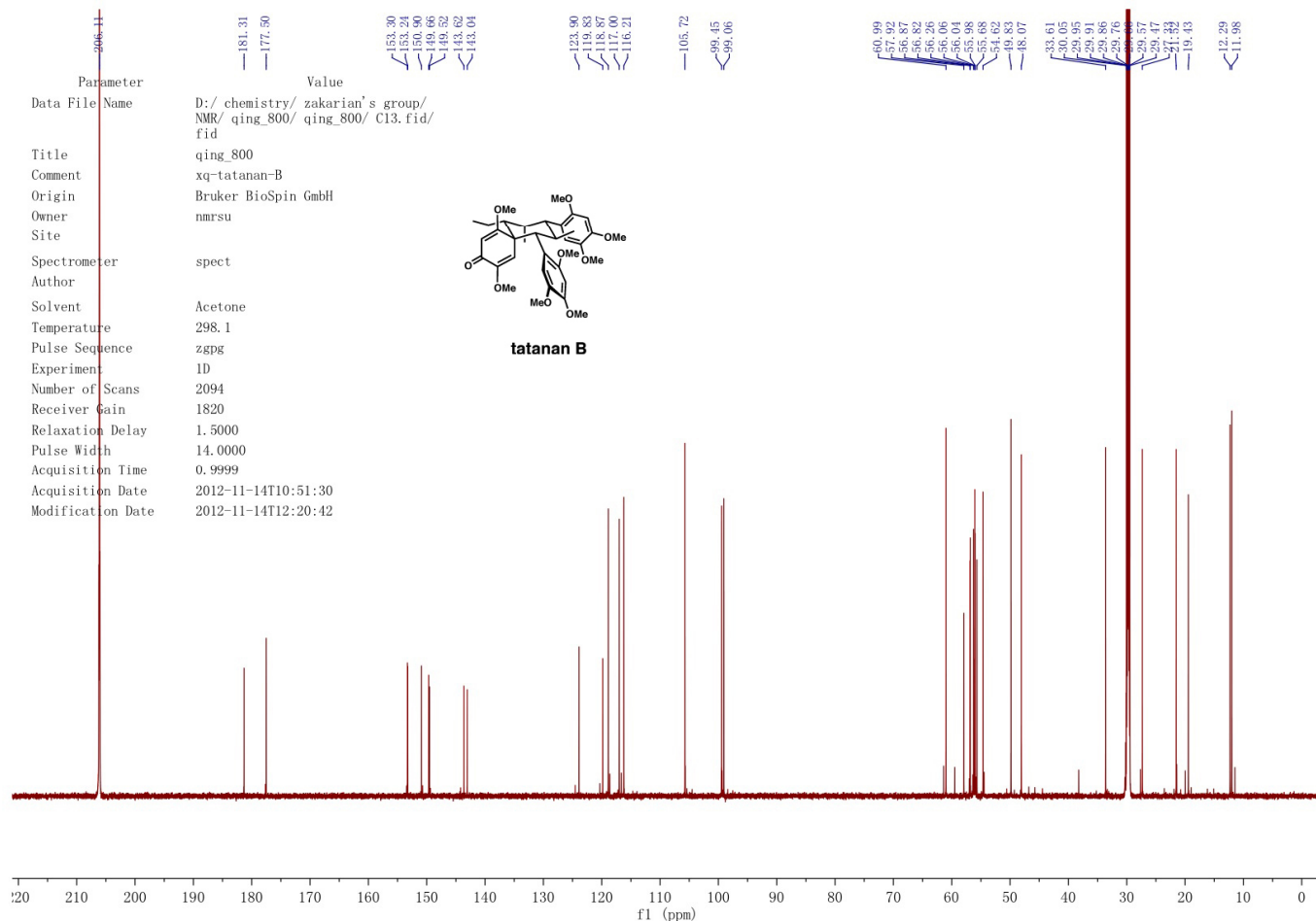
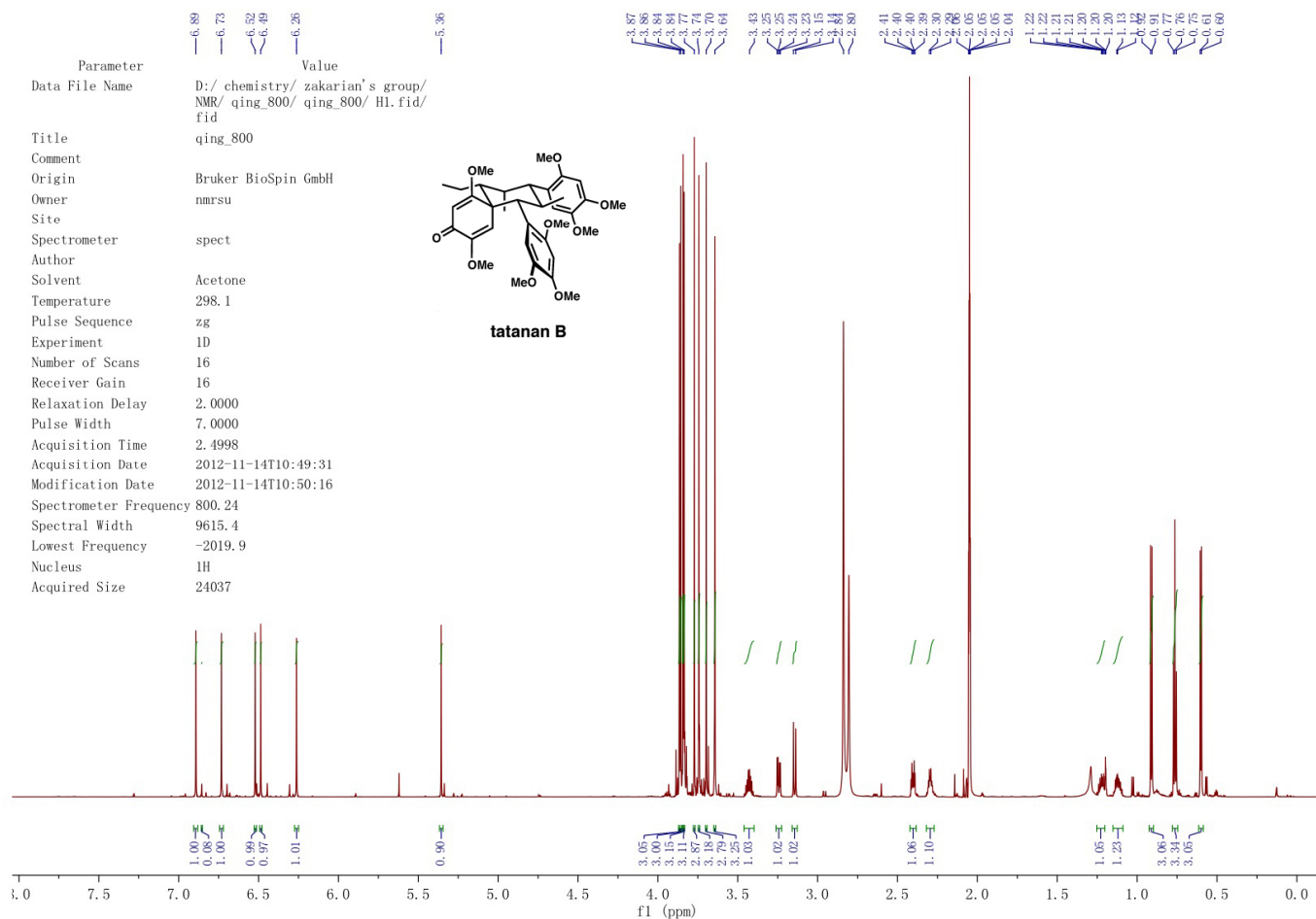


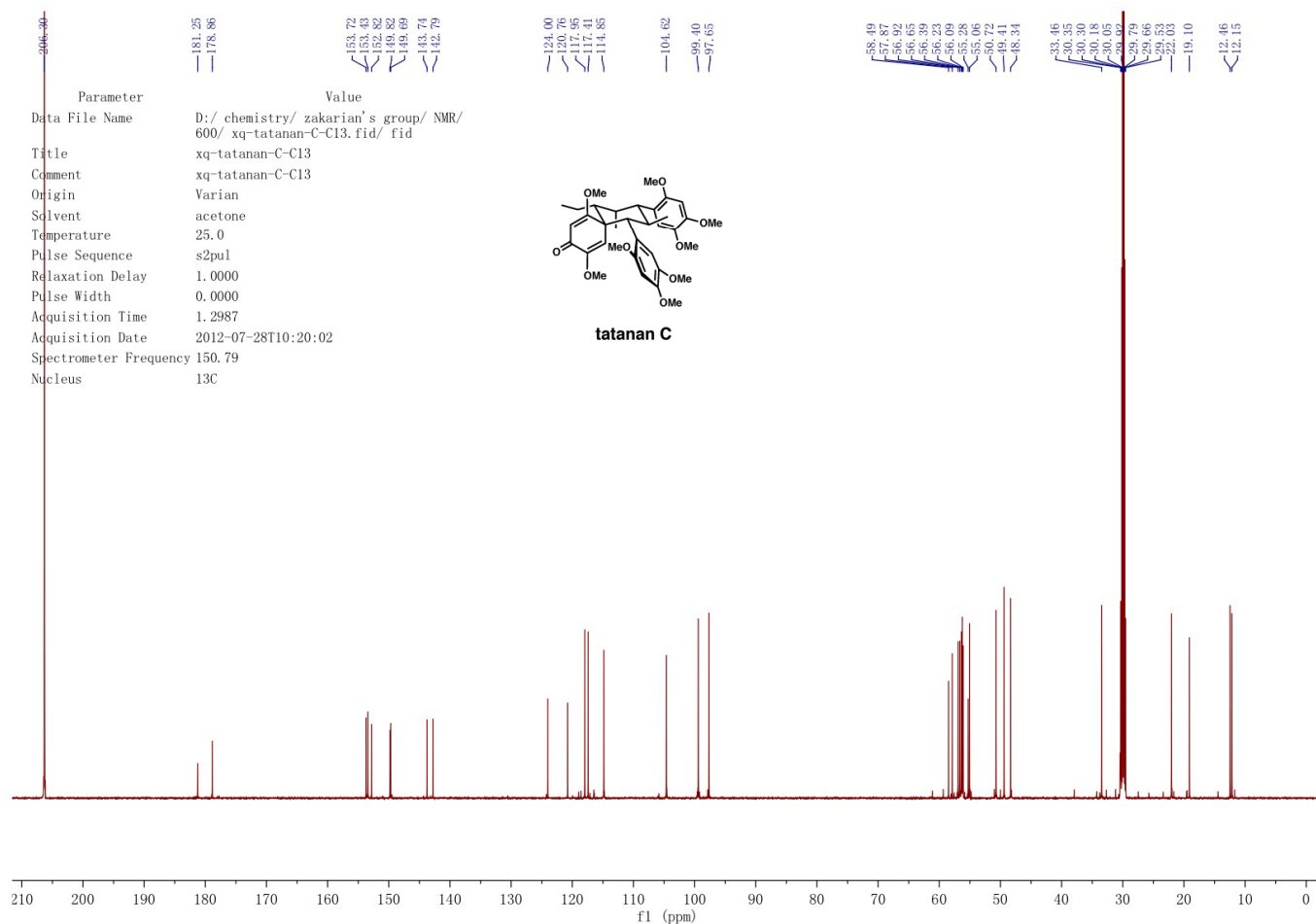
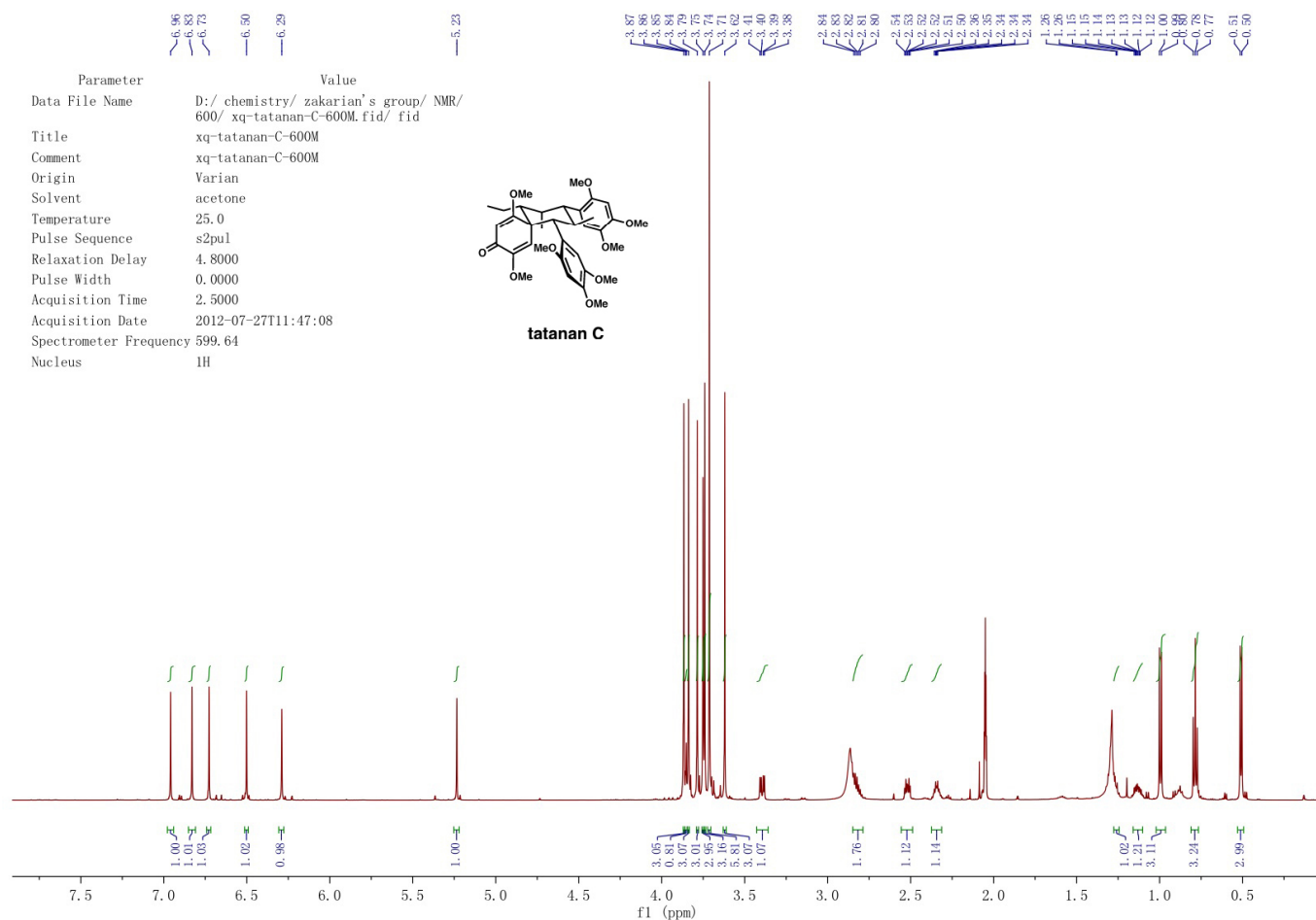




NOE spectrum of **35** in CD₃COCD₃ (500 MHz)

NOE spectrum of **35** in CD_3COCD_3 (500 MHz)





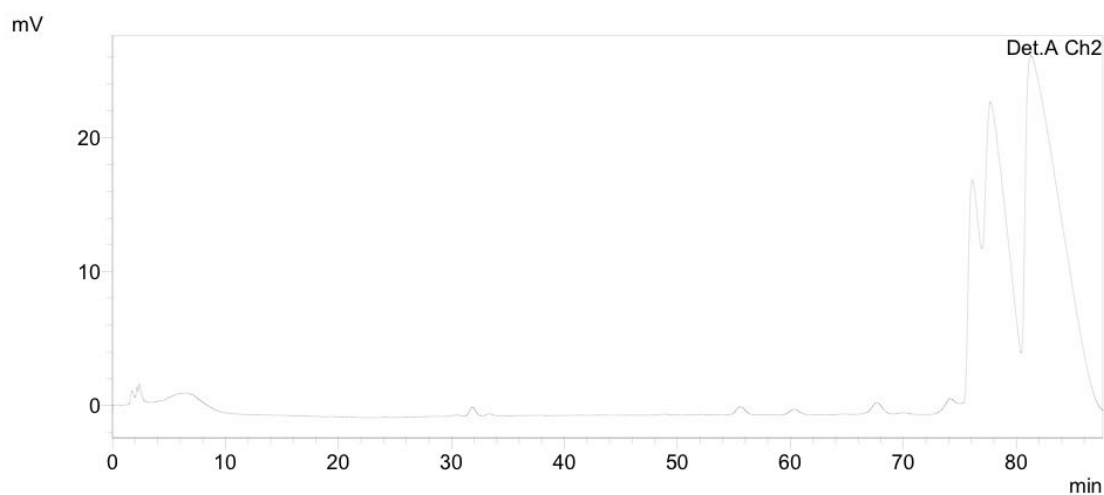
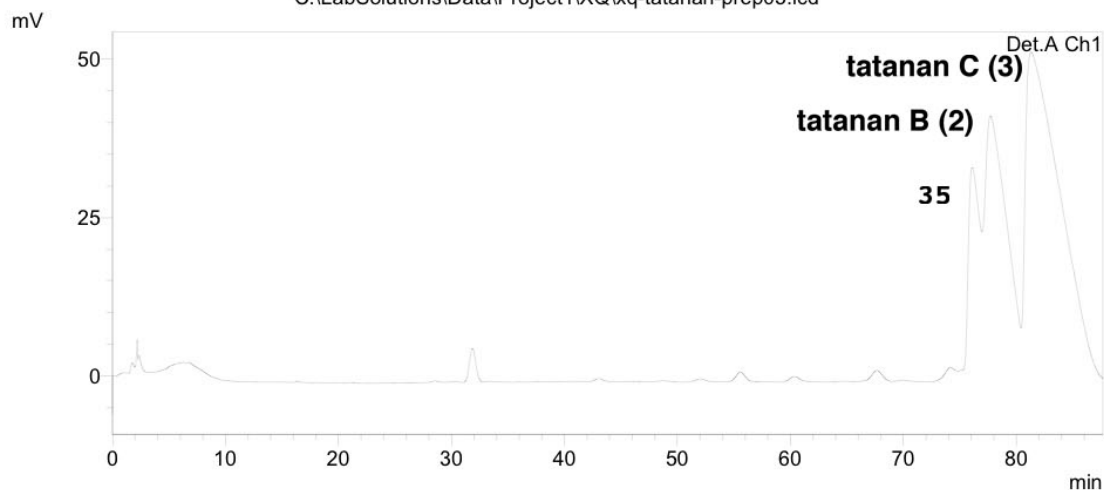
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\XQ\xq-tatanan-prep05.lcd

xq-tatanan-prep
ODS-AM 250mm*20mm
20ml/min 40% CH3CN in H2O
2.5 ml in 50:50 CH3CN/H2O
sampl injection
Acquired by : Admin
Sample Name : xq-tatanan-prep
Sample ID : xq-tatanan-prep
Vail # :
Injection Volume : 2.5 uL
Data File Name : xq-tatanan-prep05.lcd
Method File Name : ath-YMC-Pack SIL, 250x30 mm, S-10 um, 12 nm.lcm
Batch File Name :
Report File Name : Default.lcr
Data Acquired : 7/25/2012 10:15:04 AM
Data Processed : 7/25/2012 2:09:21 PM

<Chromatogram>

C:\LabSolutions\Data\Project1\XQ\xq-tatanan-prep05.lcd



1 Det.A Ch1/215nm
2 Det.A Ch2/254nm

C:\LabSolutions\Data\Project1\XQ\xq-tatanan-prep05.lcd