Total Synthesis of (−)-Marinisporolide C

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Copies of ^{1}H and ^{13}C NMR, IR, and HRMS spectra for fragment C23−C35:

Acquisition Time (sec)	3.1654	***Comment***	Emilio EJR-021PA C6D6 250 MHz set06ejrH2			***Date***	06 Sep 2011 09:54:42
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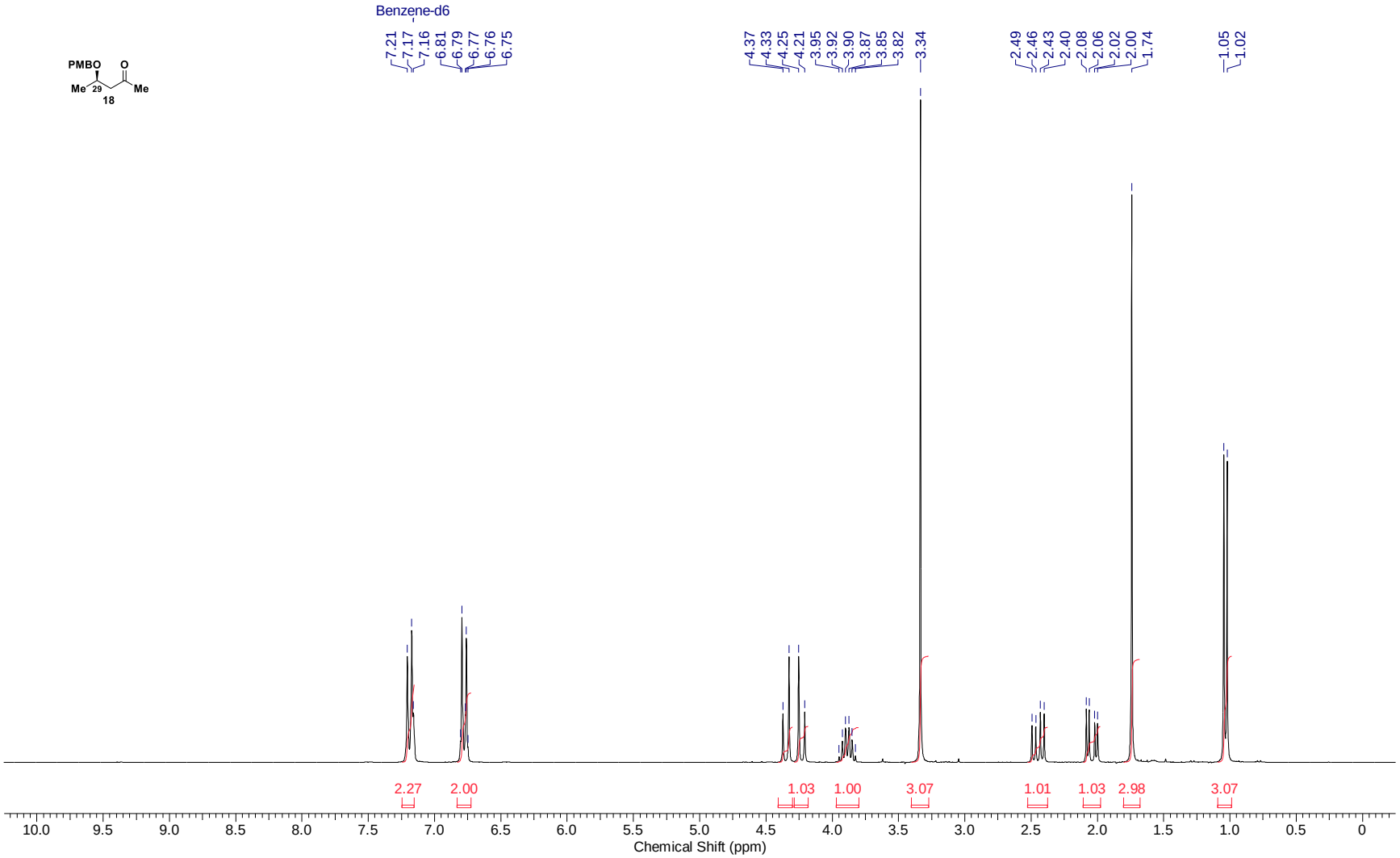

Figure S1: ^{1}H NMR spectrum of compound **18** (250 MHz; C_6D_6).

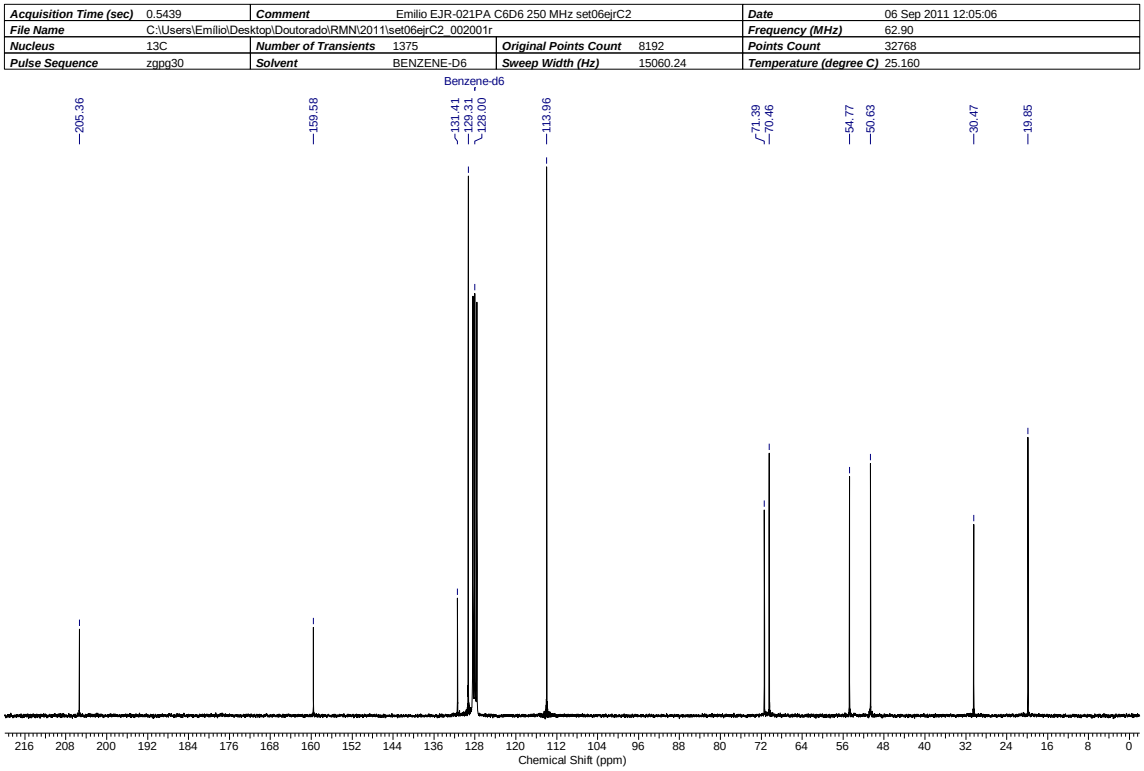

Figure S2: ^{13}C NMR spectrum of compound **18** (62.5 MHz; C_6D_6).

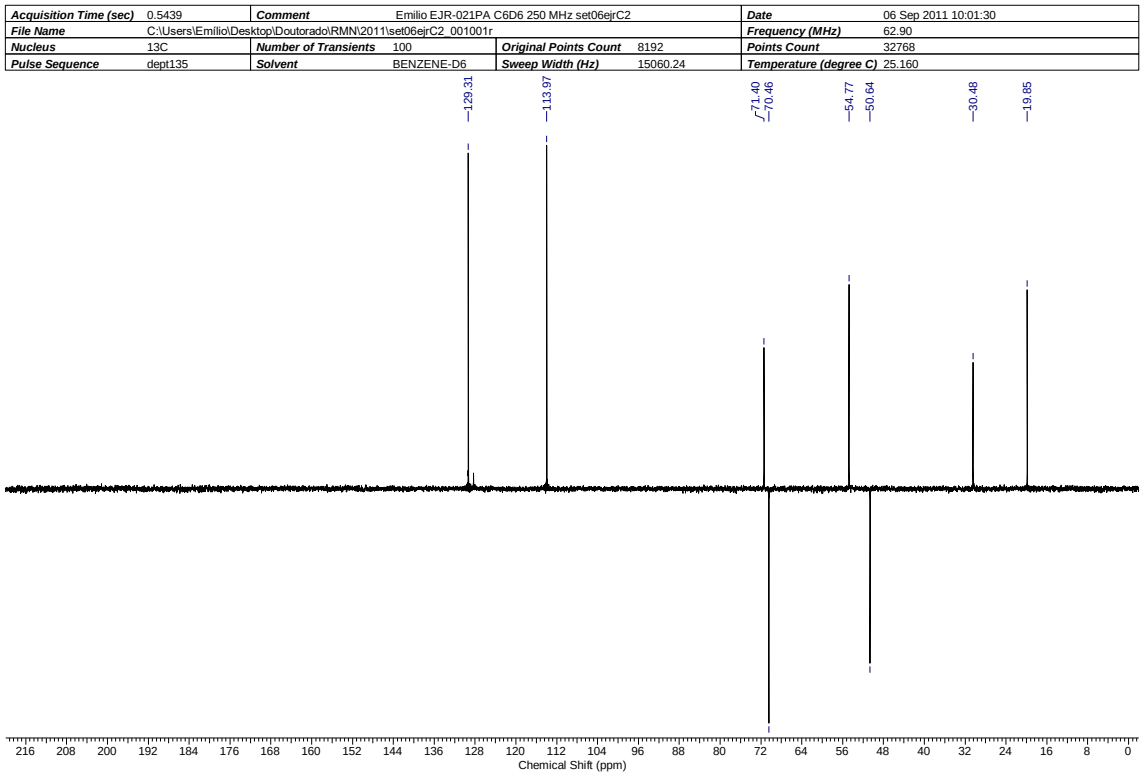

Figure S3: ^{13}C NMR (dept 135) spectrum of compound **18** (62.5 MHz; C_6D_6).

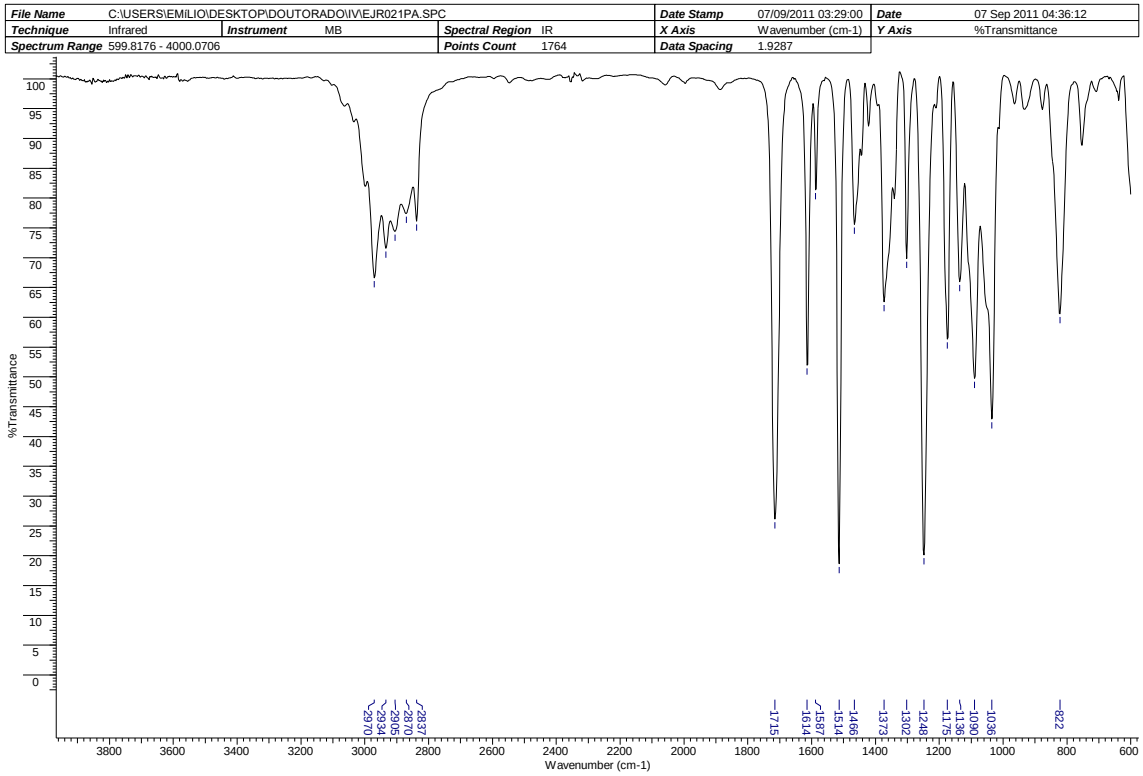

Figure S4: IR spectrum of compound **18**.

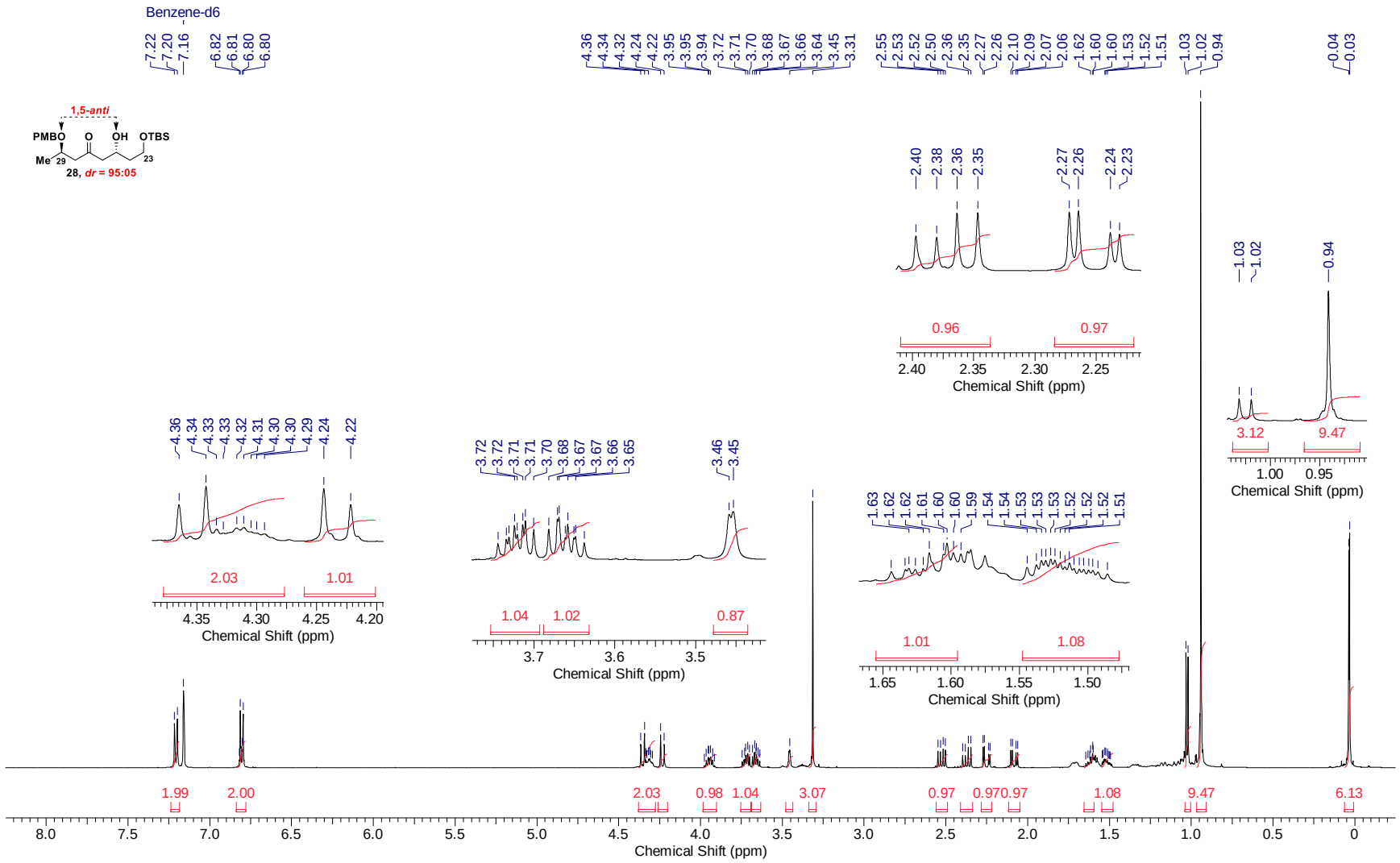

Figure S5: ^{1}H NMR spectrum of compound **28** (500 MHz; C_6D_6).

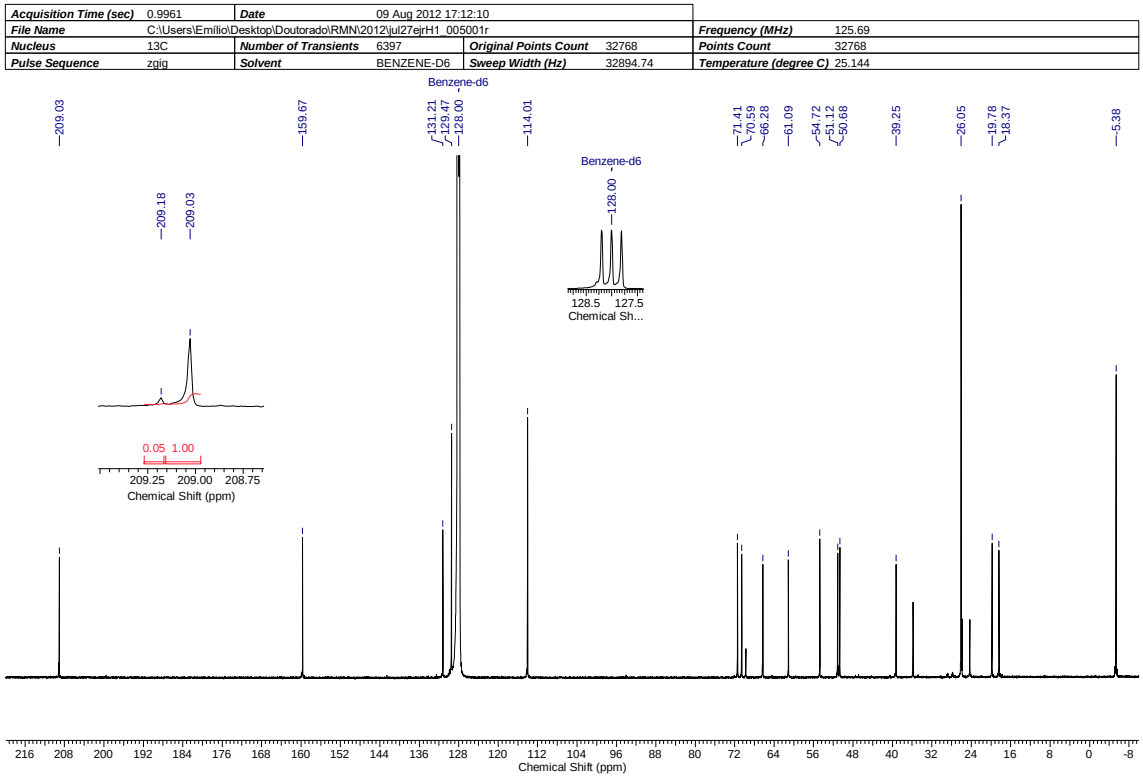

Figure S6: ^{13}C NMR spectrum of compound **28** (125 MHz; C_6D_6).

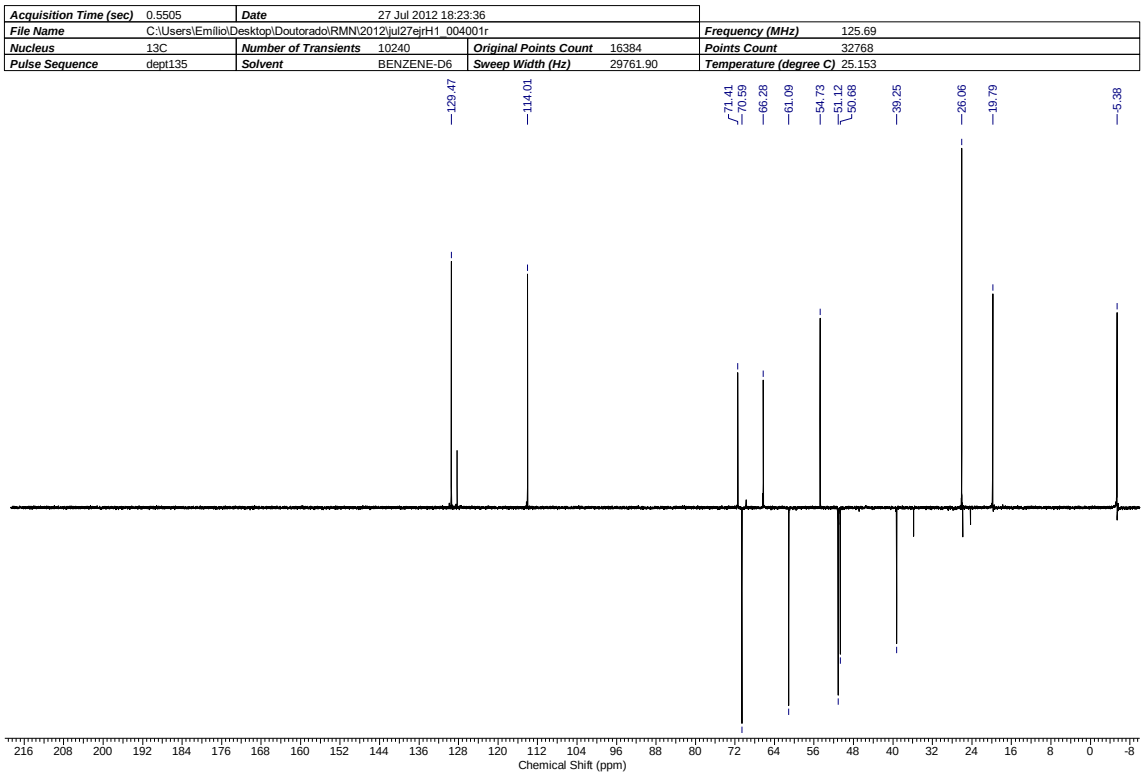

Figure S7: ^{13}C NMR (dept 135) spectrum of compound **28** (125 MHz; C_6D_6).

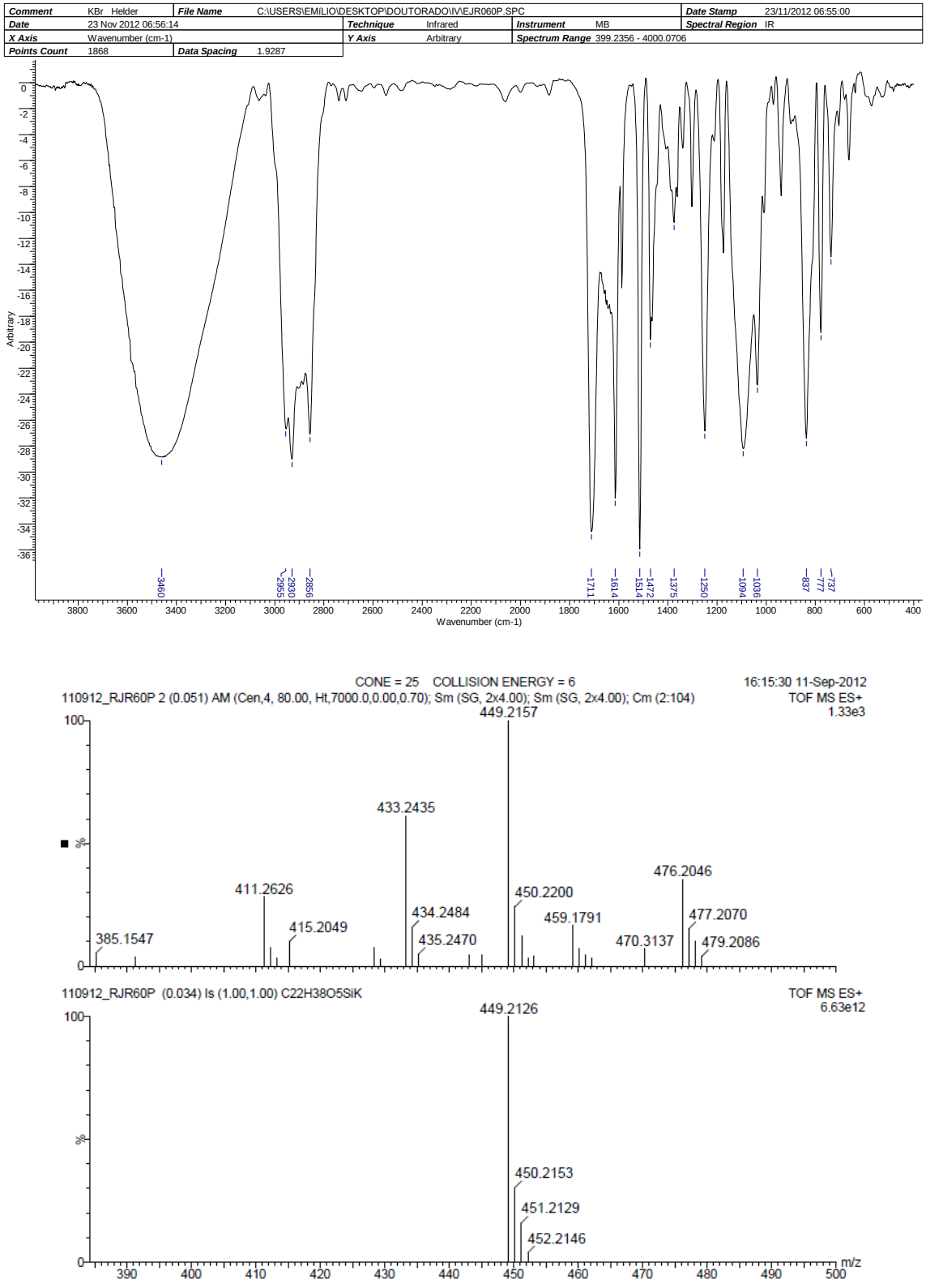

Figure S8: IR and HRMS (ESI TOF-MS) spectra of compound **28**.

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Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	12335.53
Temperature (degree C)	25.207						

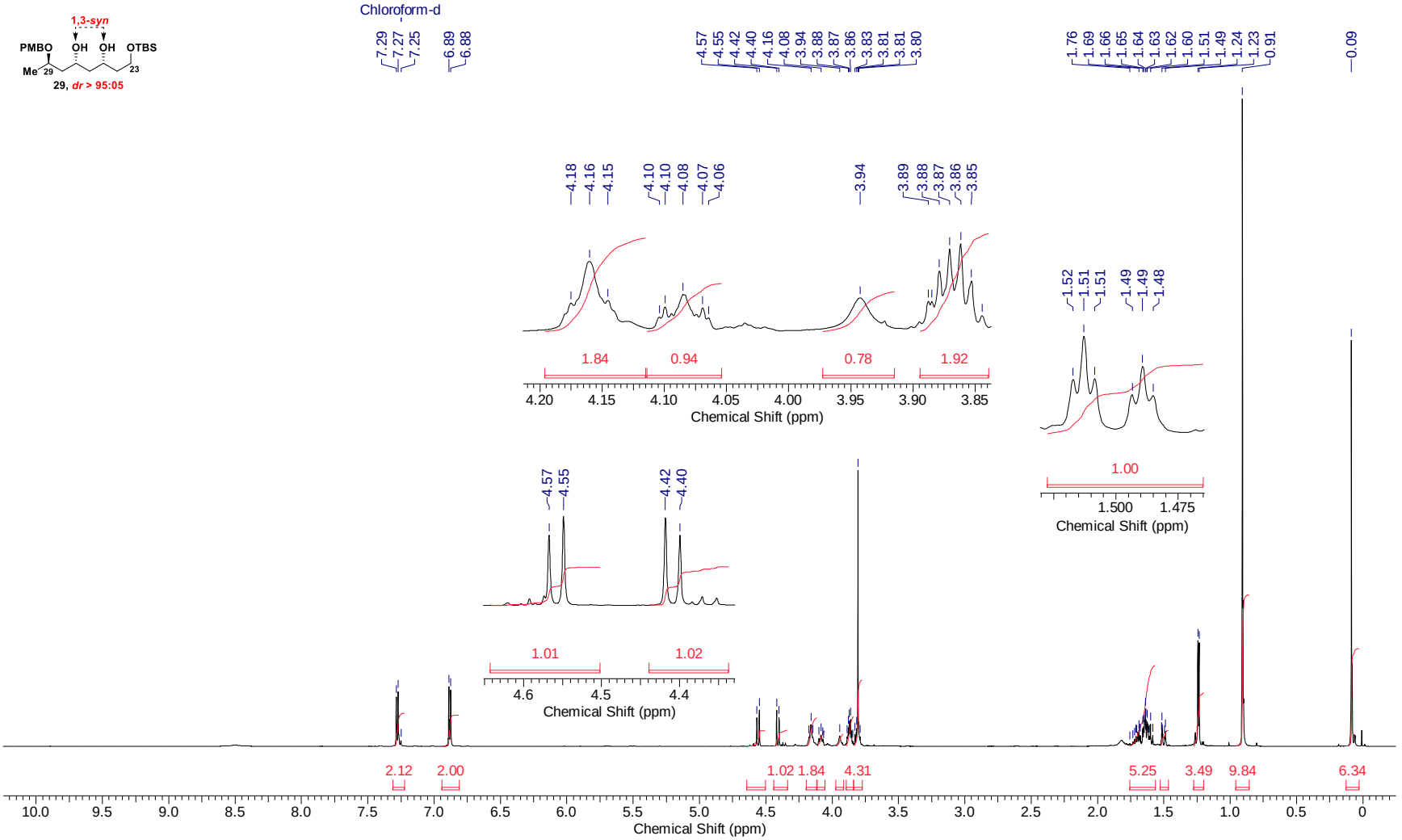

Figure S9: ^{1}H NMR spectrum of compound **29** (600 MHz; $CDCl_3$).

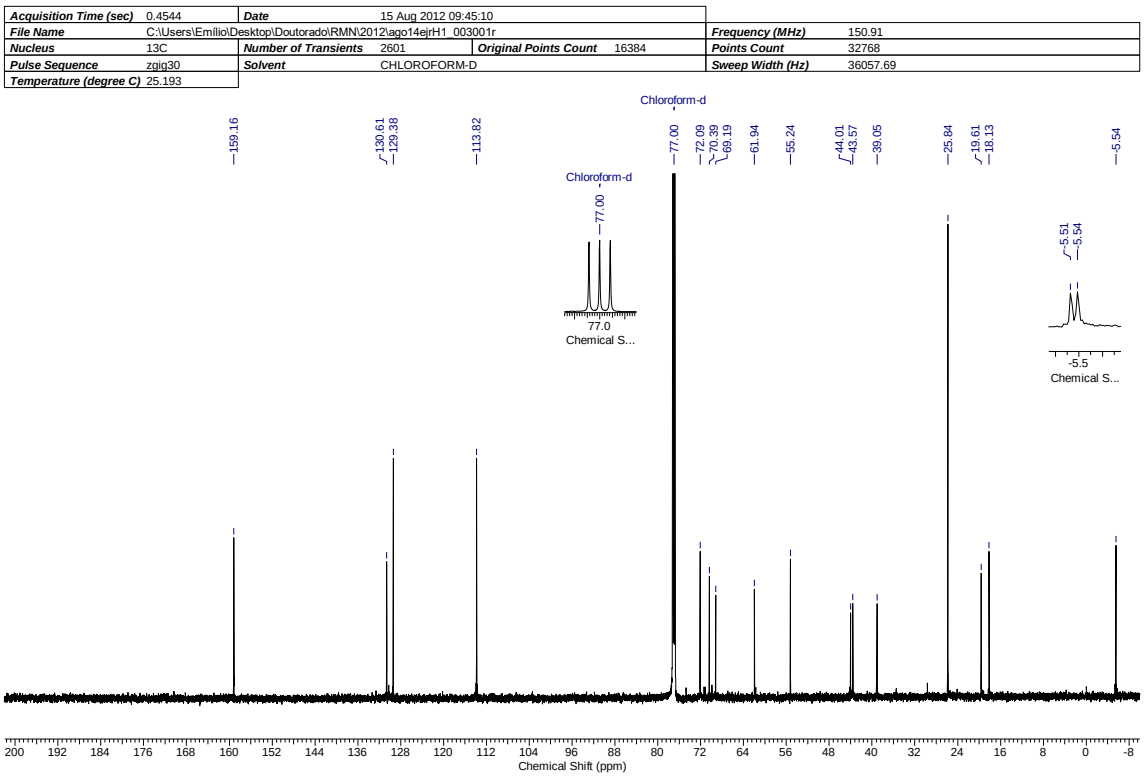

Figure S10: ^{13}C NMR spectrum of compound **29** (150 MHz; $CDCl_3$).

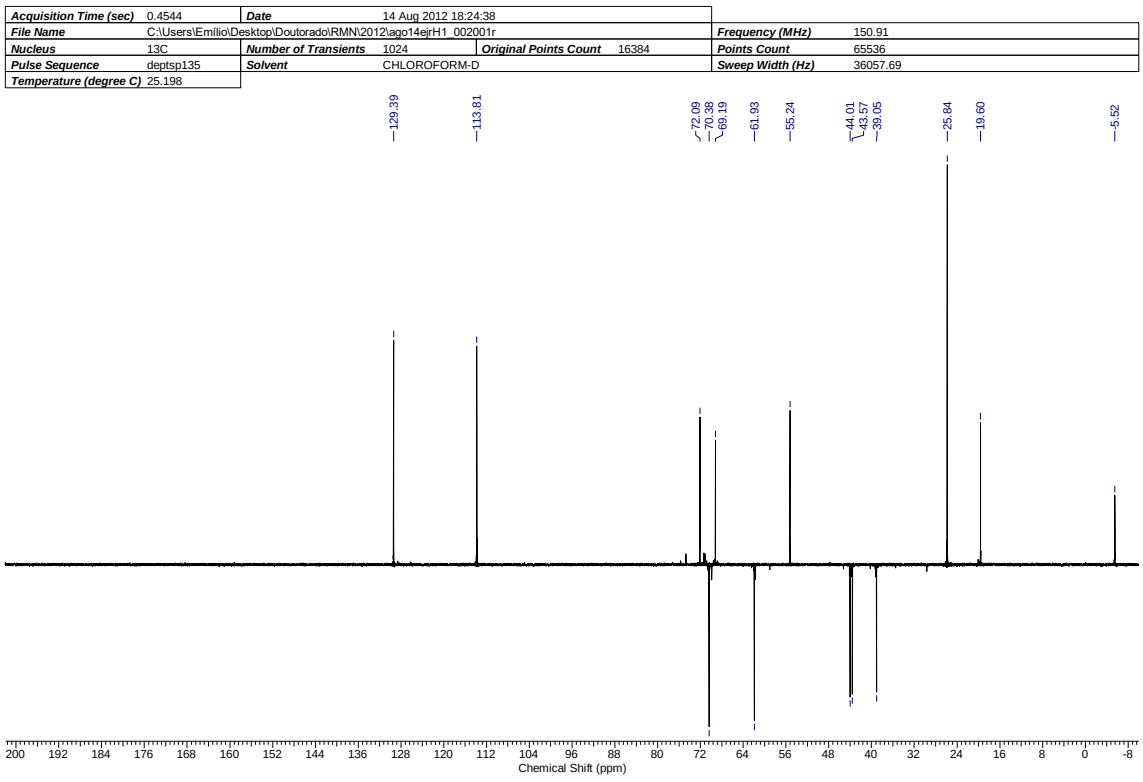

Figure S11: ^{13}C NMR (dept 135) spectrum of compound **29** (150 MHz; $CDCl_3$).

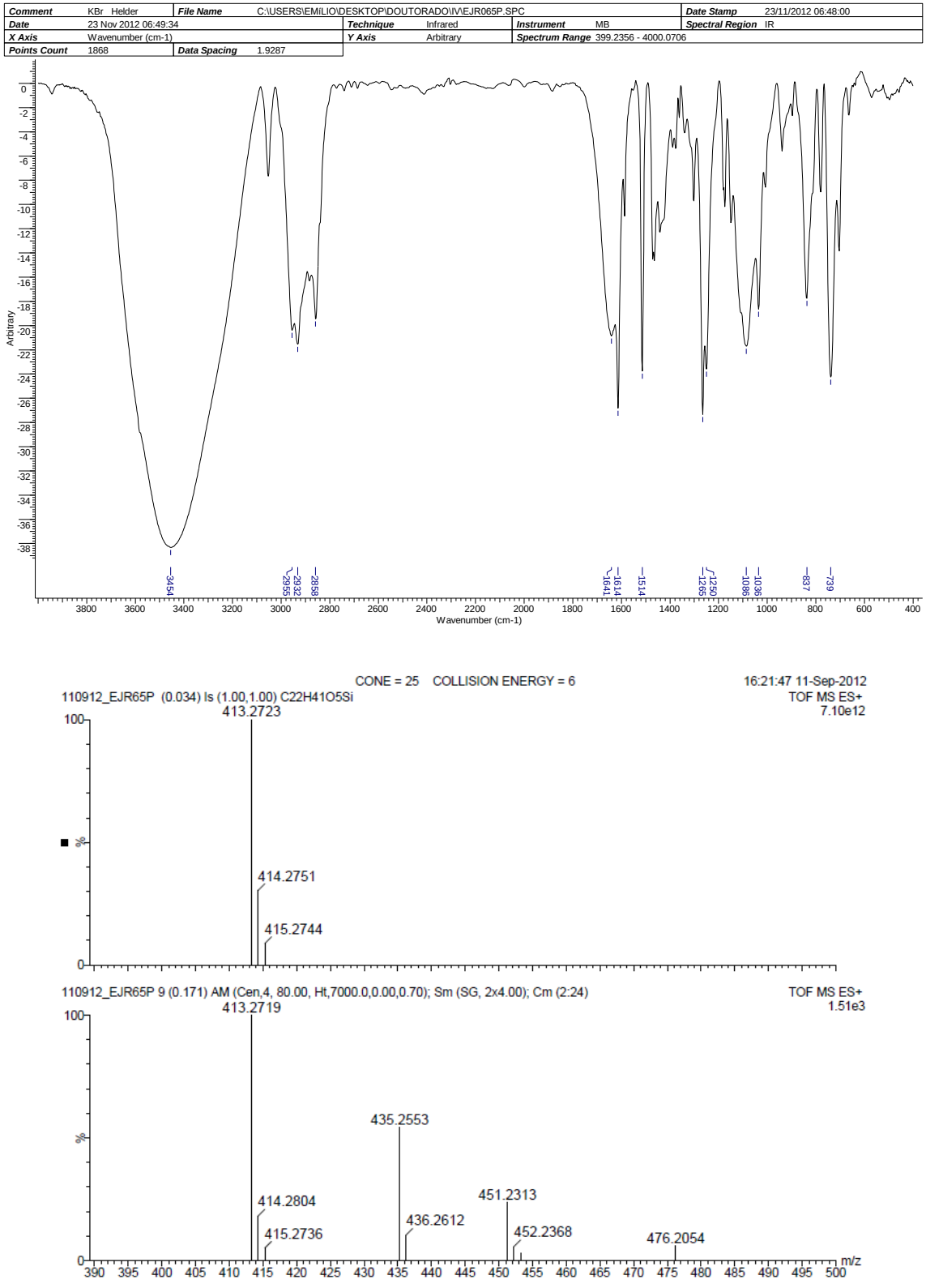

Figure S12: IR and HRMS (ESI TOF-MS) spectra of compound **29**.

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File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2012\mar01ejrH1\mar01ejrH1_001000fid					***Frequency (MHz)***	250.13
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	16384
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D	***Sweep Width (Hz)***	5175.98	***Temperature (degree C)***	25.160

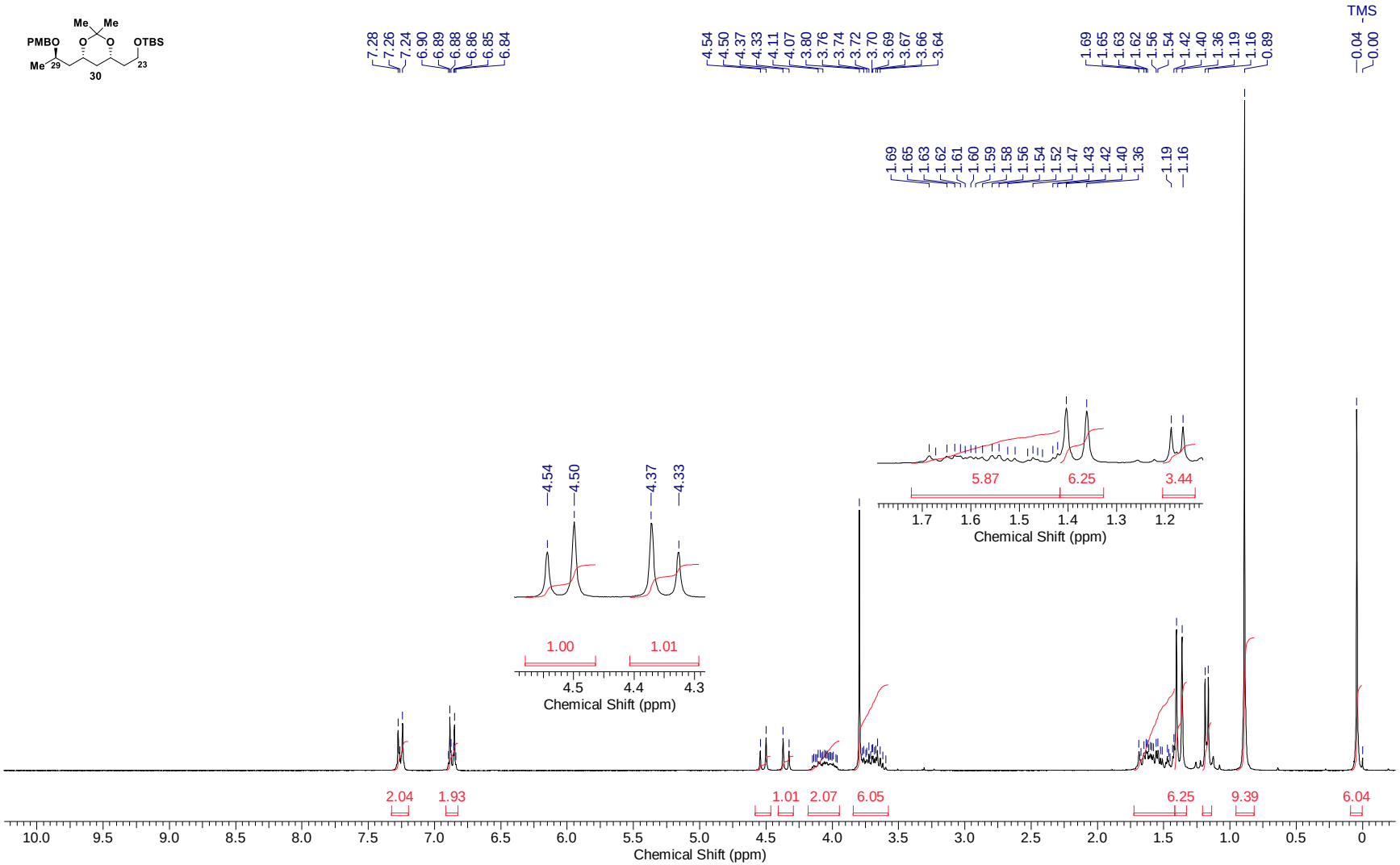

Figure S13: ^{1}H NMR spectrum of compound **30** (250 MHz; $CDCl_3$).

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File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2012\mar01ejrC13_002001r					***Frequency (MHz)***	62.90
Nucleus	13C	***Number of Transients***	15091	***Original Points Count***	8192	***Points Count***	32768
Pulse Sequence	zgpg30	***Solvent***	CHLOROFORM-D	***Sweep Width (Hz)***	15060.24	***Temperature (degree C)***	25.660

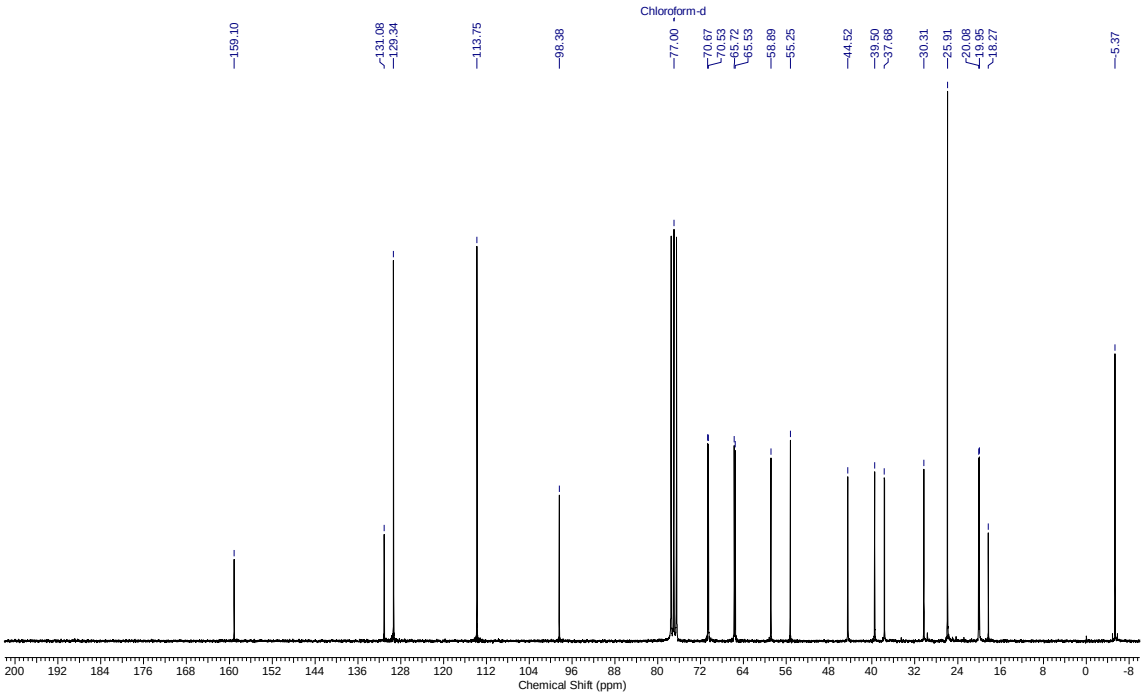

Figure S14: ^{13}C NMR spectrum of compound **30** (62.5 MHz; $CDCl_3$).

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File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2012\mar01ejrC13_001001r			***Frequency (MHz)***	62.90	***Nucleus***	13C
Number of Transients	2048	***Original Points Count***	8192	***Points Count***	32768	***Pulse Sequence***	dept135
Solvent	CHLOROFORM-D	***Sweep Width (Hz)***	15060.24	***Temperature (degree C)***	25.260		

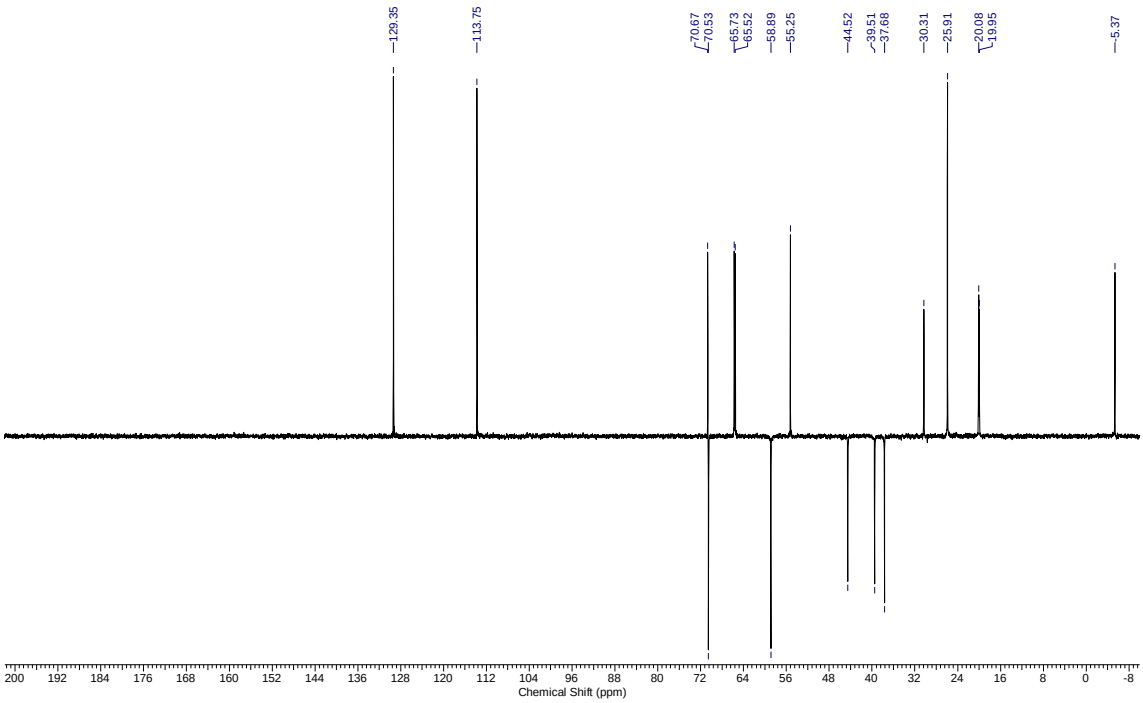


Figure S15: ^{13}C NMR (dept 135) spectrum of compound **30** (62.5 MHz; $CDCl_3$).

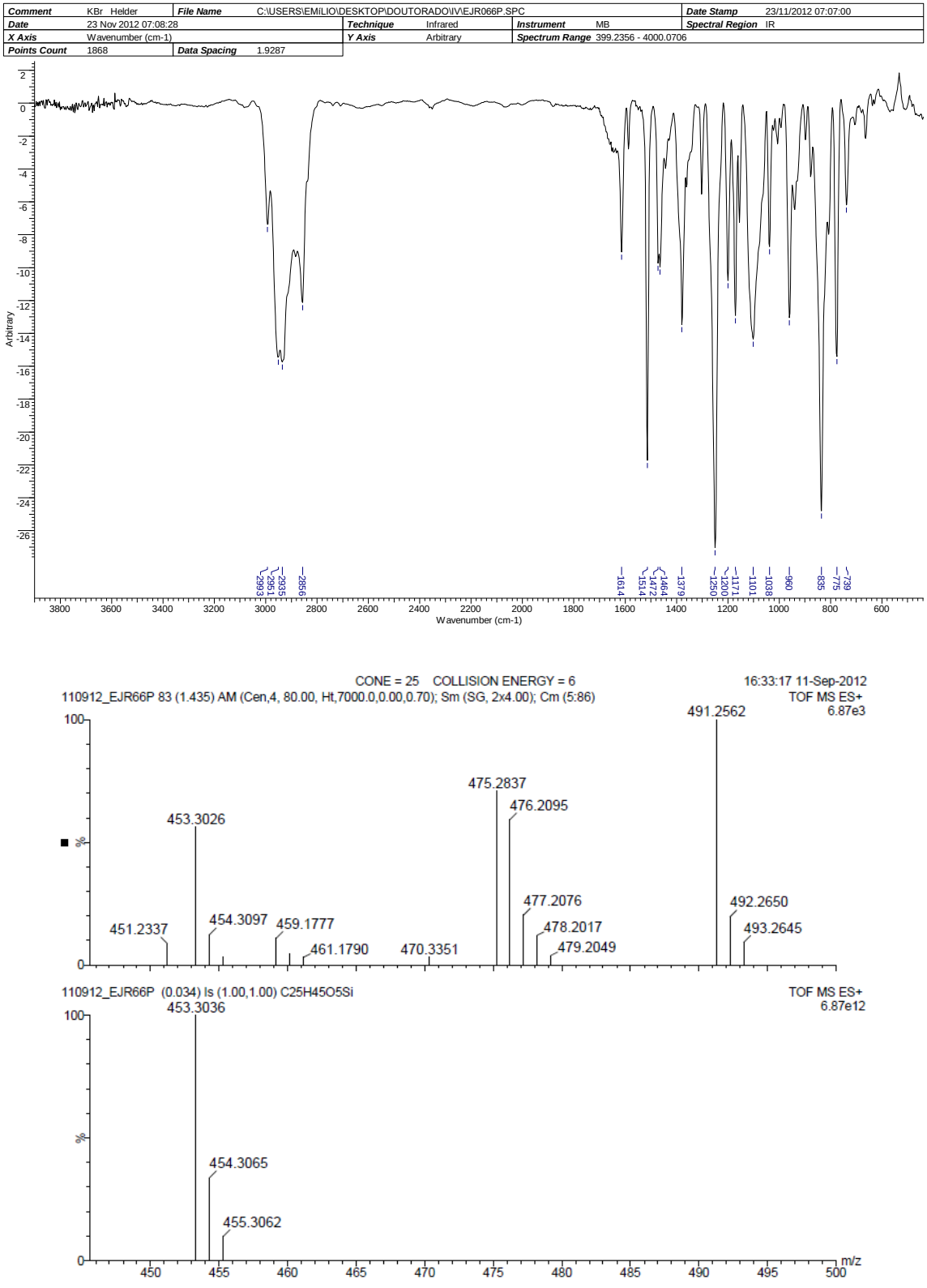


Figure S16: IR and HRMS (ESI TOF-MS) spectra of compound **30**.

Acquisition Time (sec)	2.6564	***Date***	17 Aug 2012 12:11:36				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2012\ago17ejrH1_001001r					***Frequency (MHz)***	600.17
Nucleus	1H	***Number of Transients***	32	***Original Points Count***	32768	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	12335.53
Temperature (degree C)	25.343						

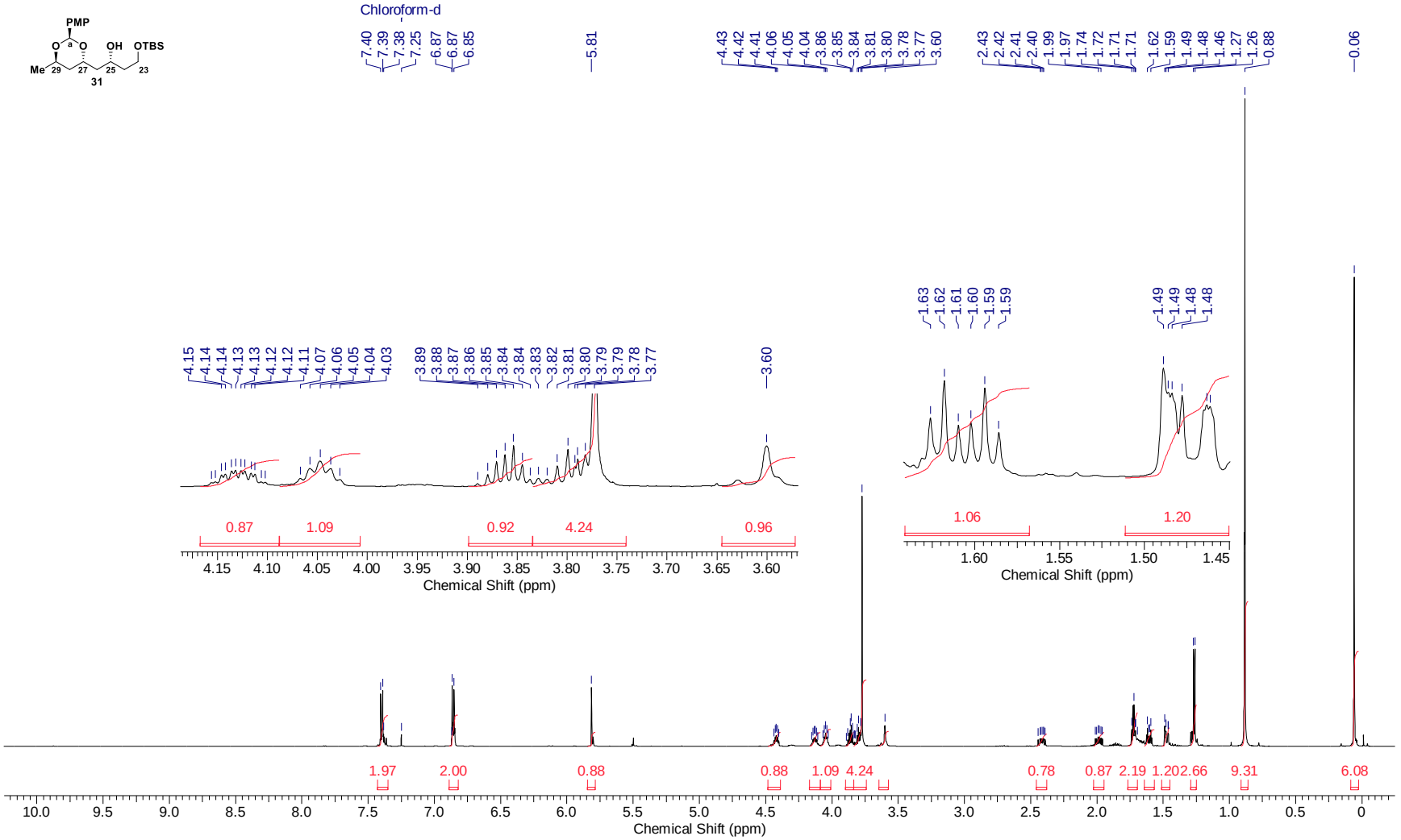


Figure S17: ^{1}H NMR spectrum of compound **31** (600 MHz; $CDCl_3$).

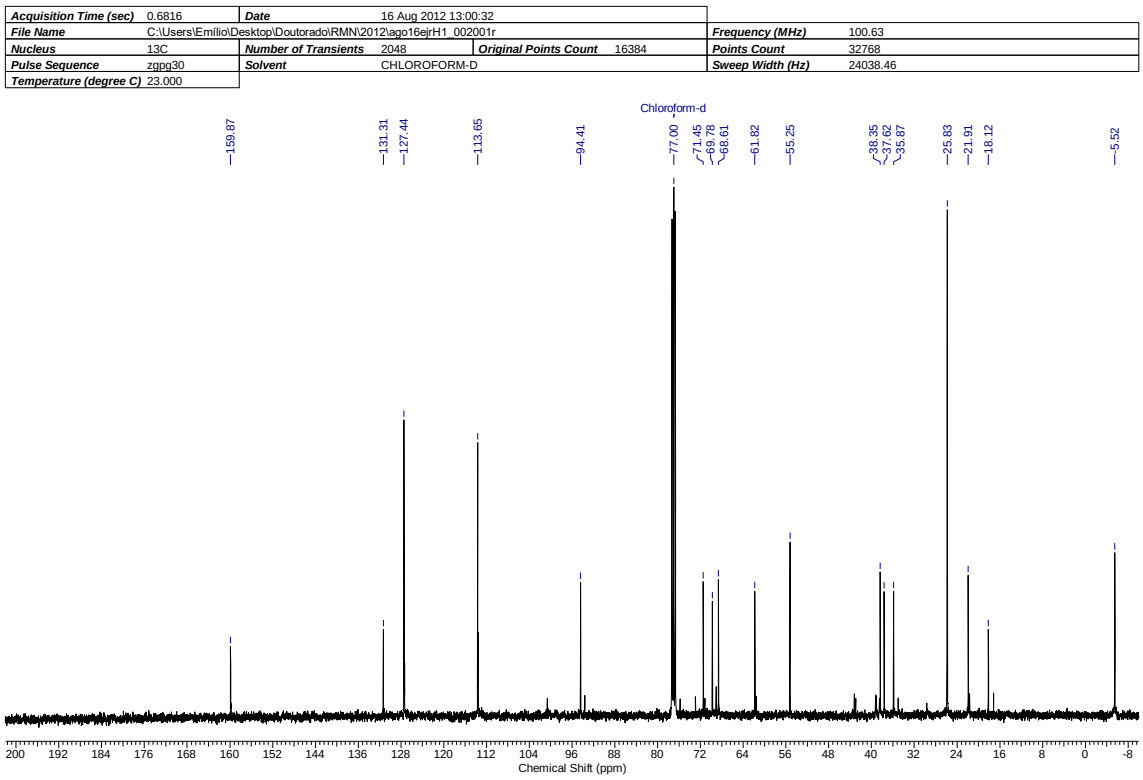


Figure S18: ^{13}C NMR spectrum of compound **31** (100 MHz; $CDCl_3$).

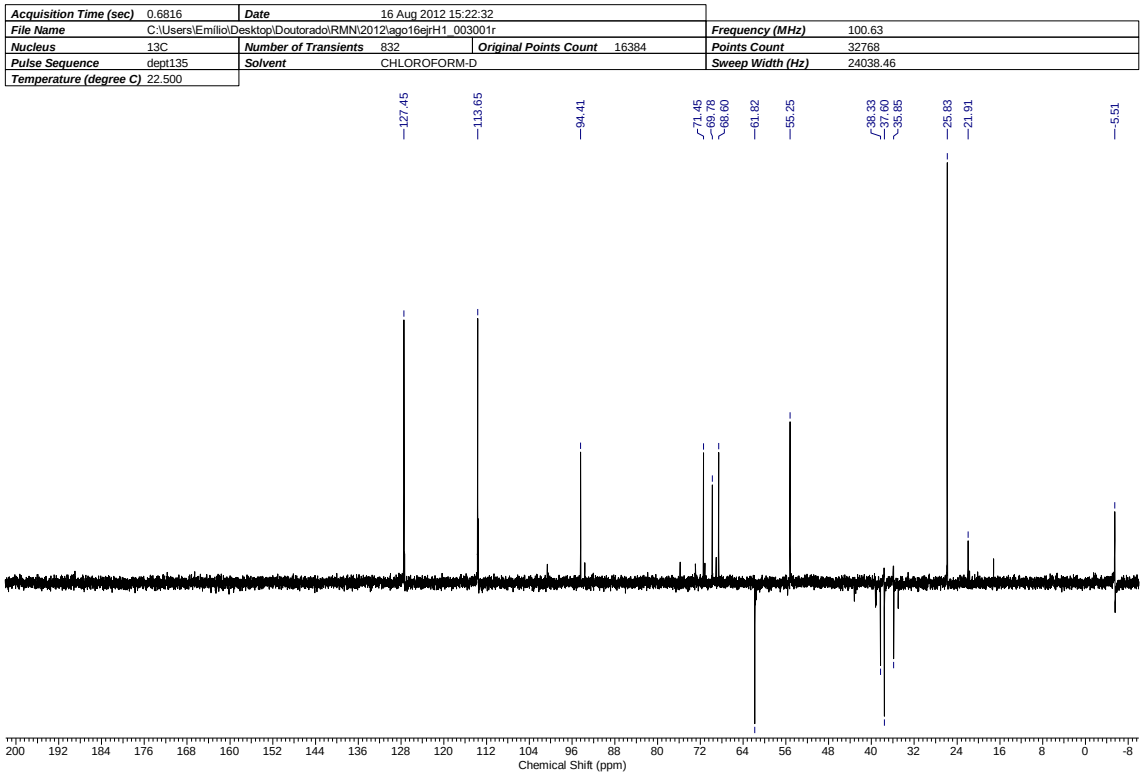
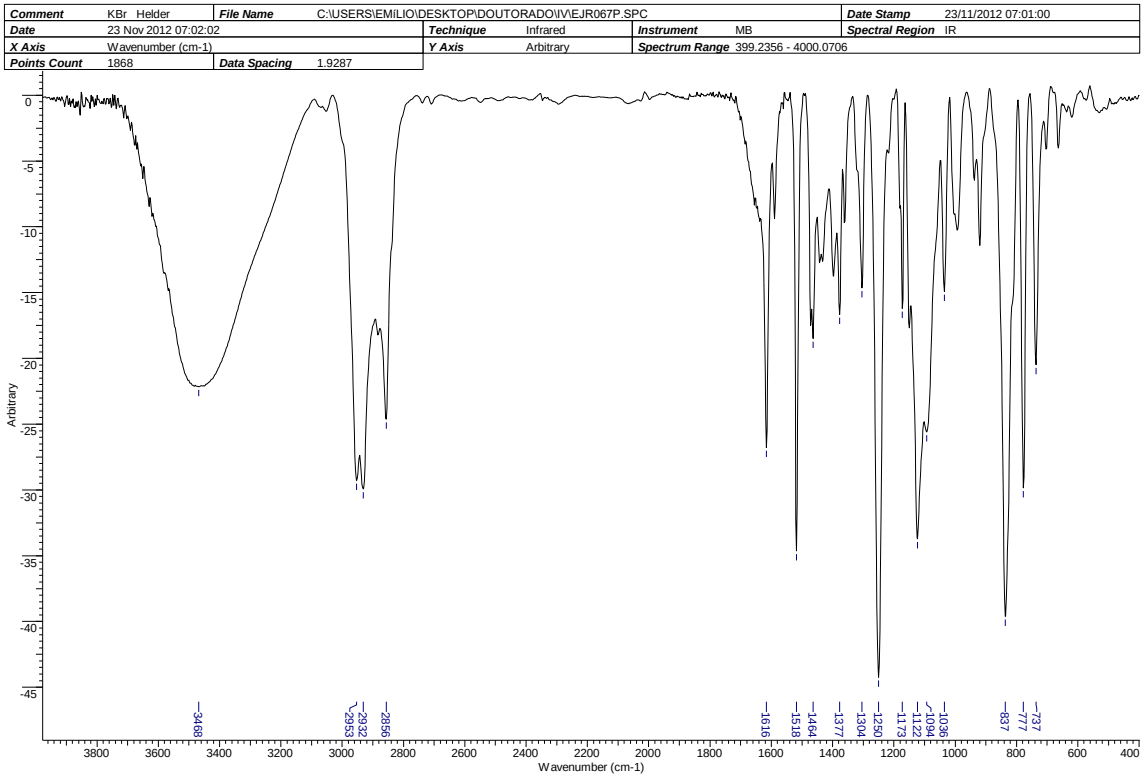


Figure S19: ^{13}C NMR (dept 135) spectrum of compound **31** (100 MHz; $CDCl_3$).



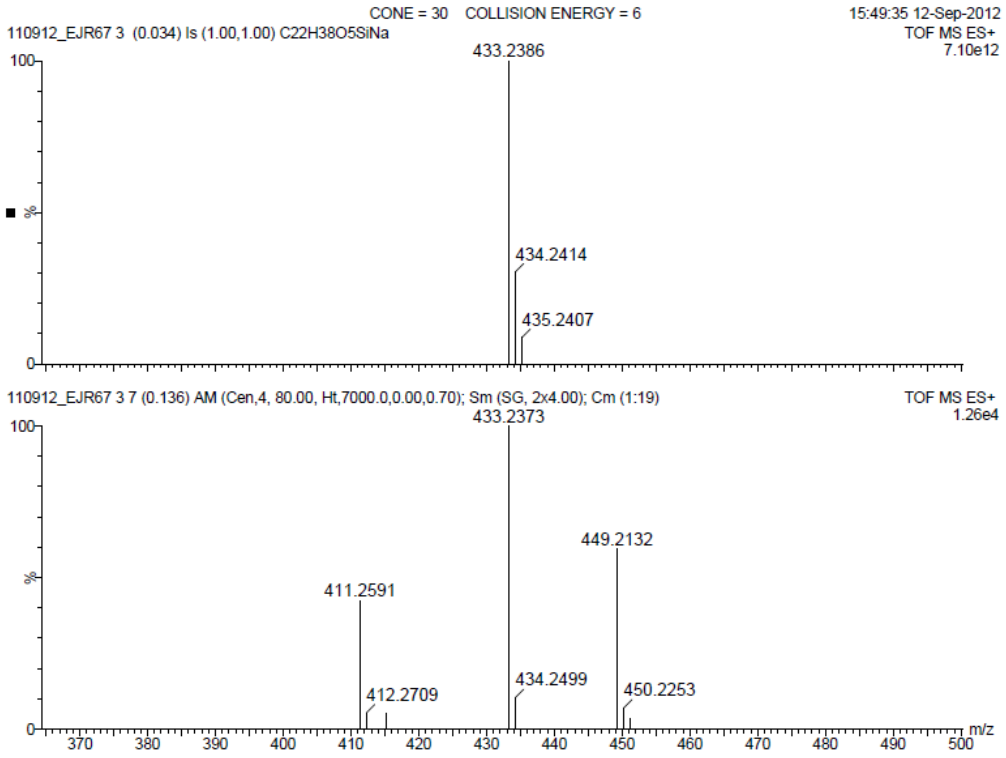


Figure S20: IR and HRMS (ESI TOF-MS) spectra of compound **31**.

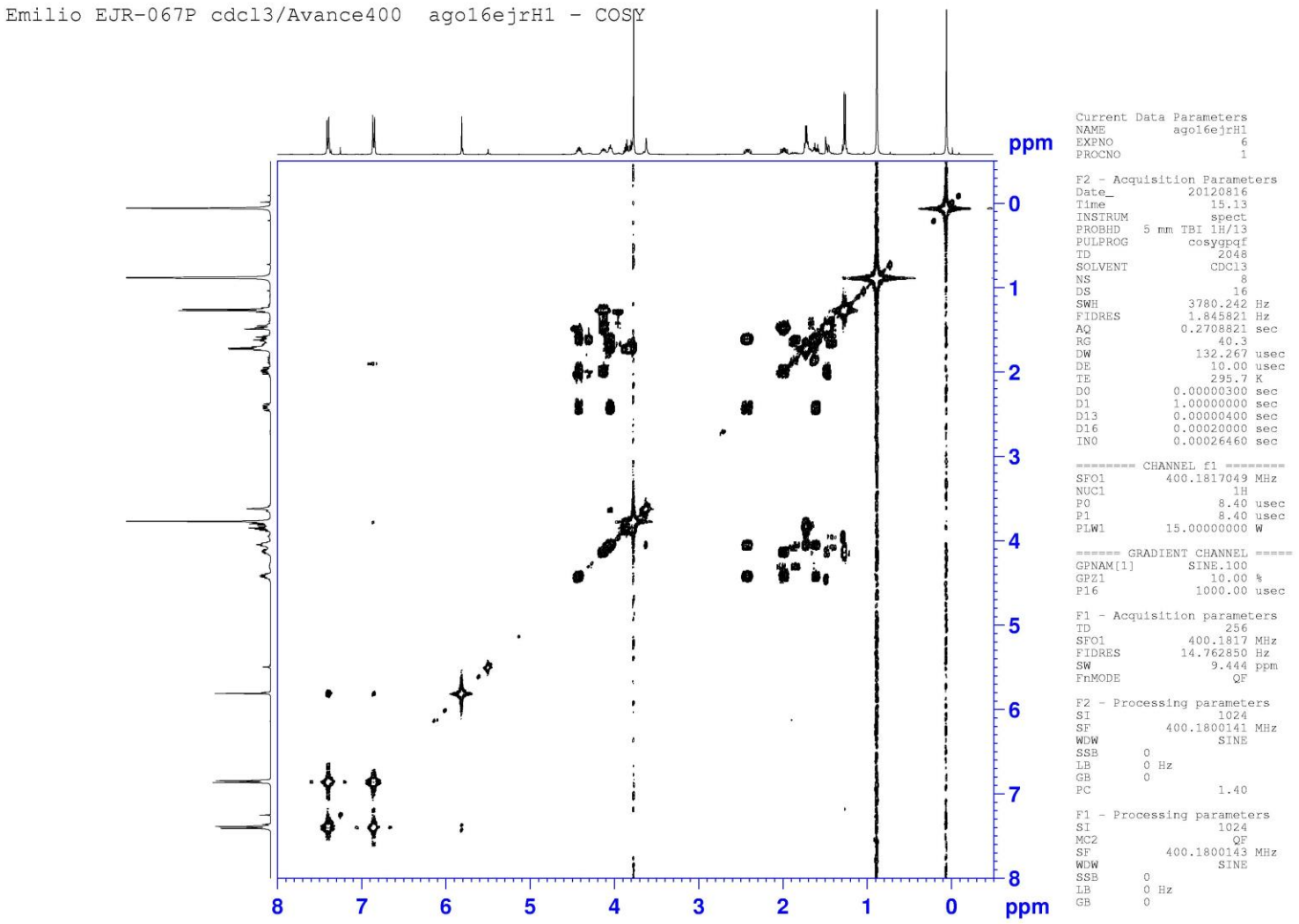


Figure S21: COSY contour map of compound **31** (400 MHz; $CDCl_3$).

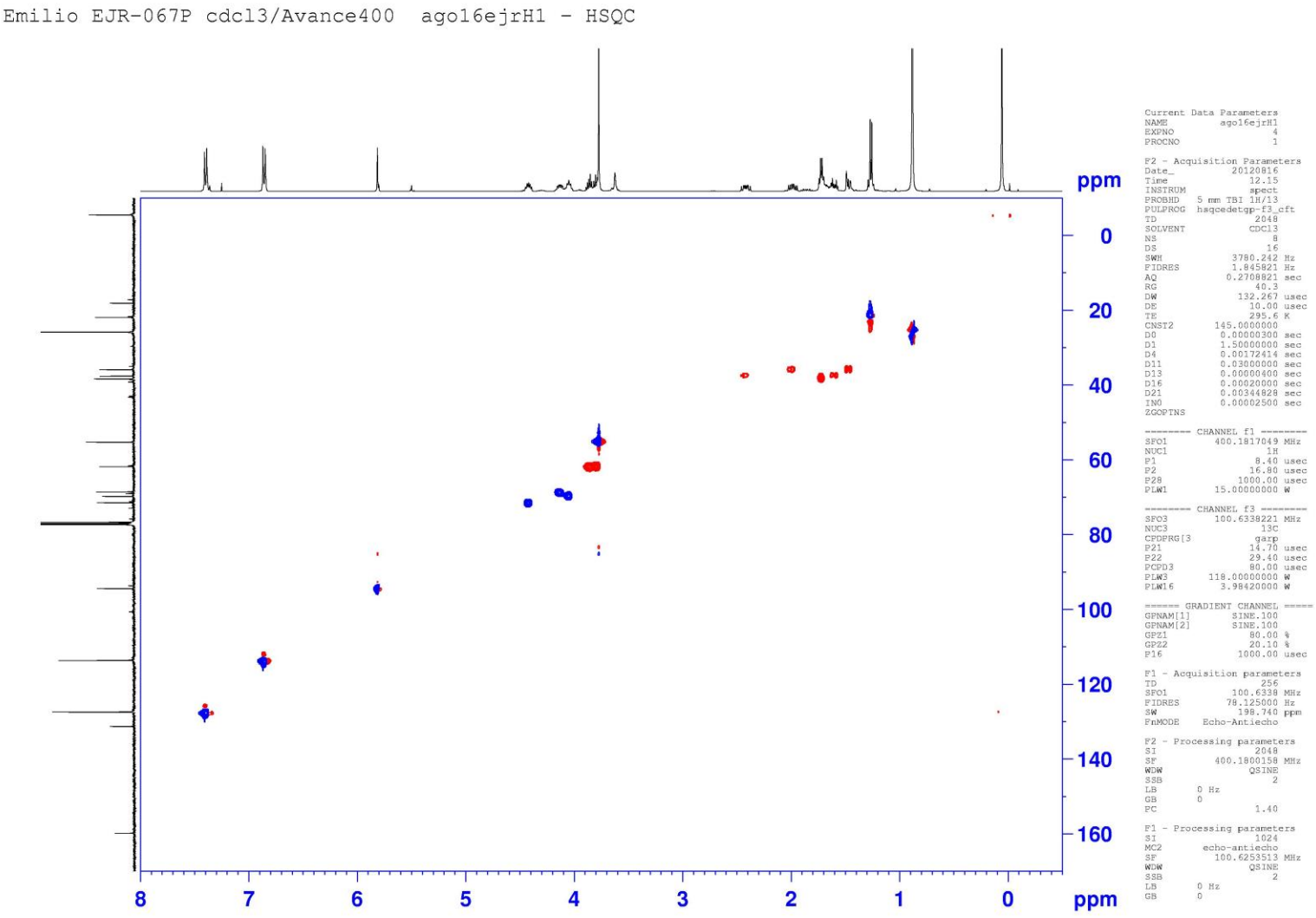


Figure S22: HSQC contour map of compound **31**.

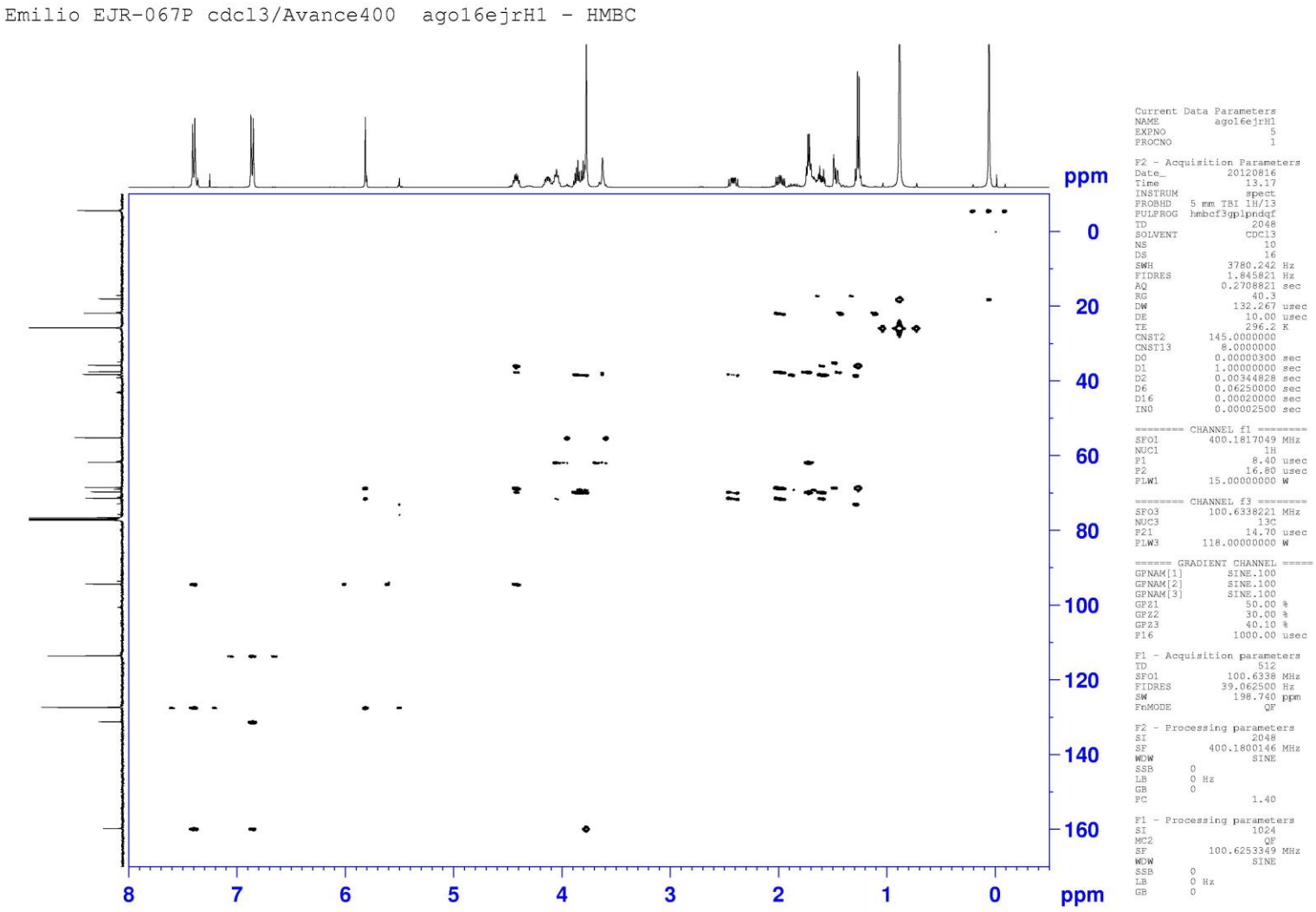


Figure S23: HMBC contour map of compound **31**.

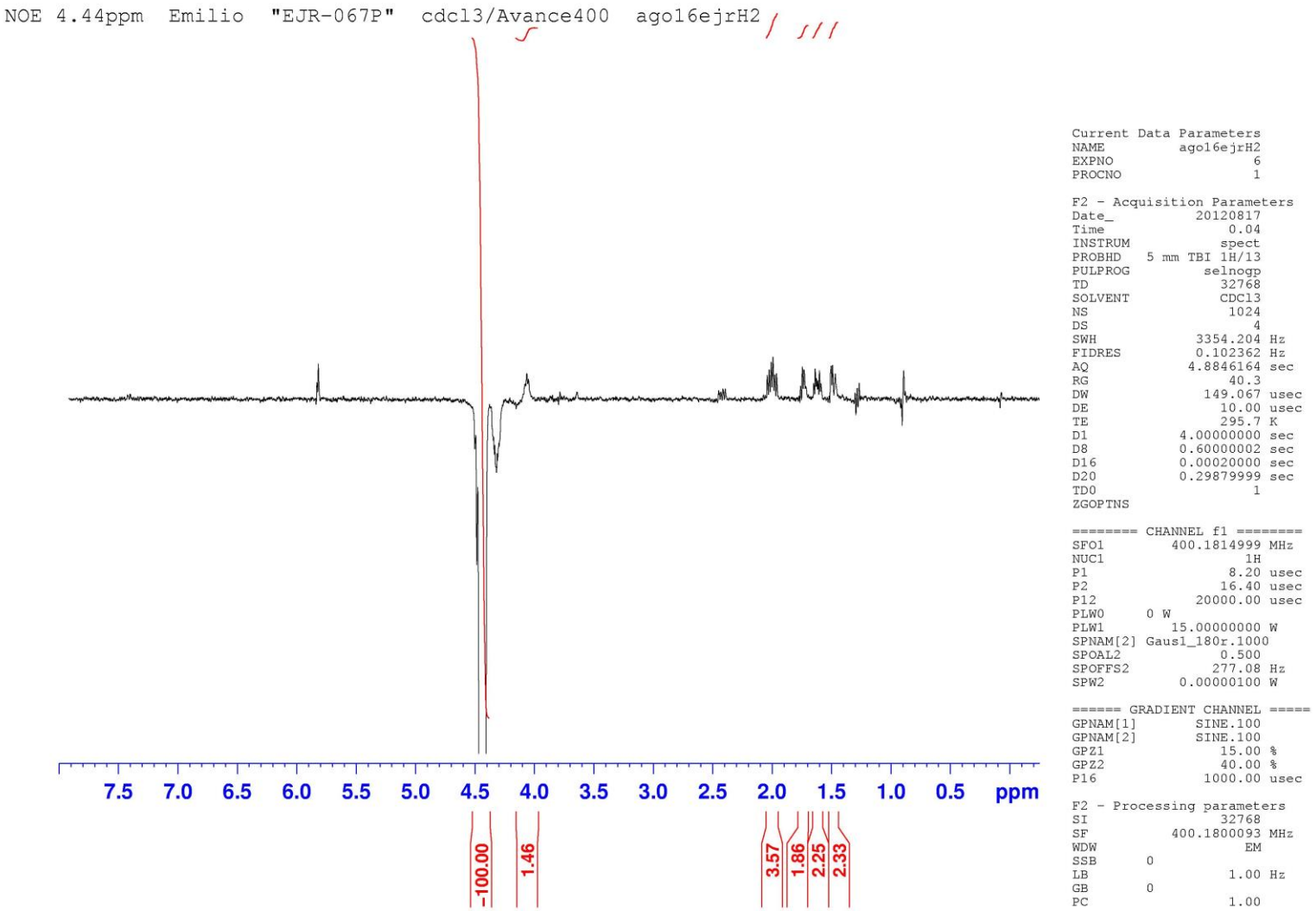


Figure S24: ^{1}H NMR (1D selective NOE) spectrum of compound **31** (400 MHz; $CDCl_3$).

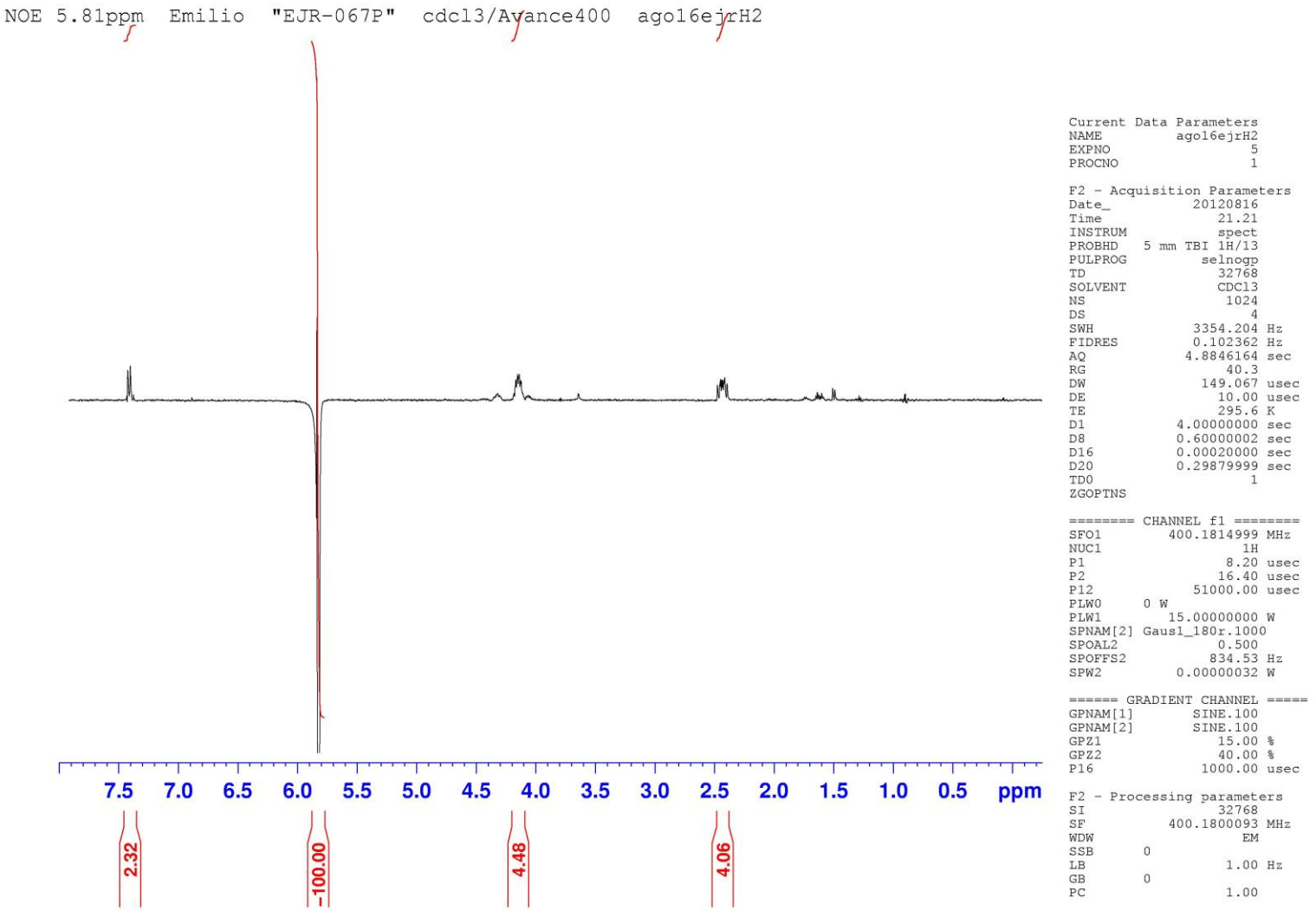


Figure S25: ^{1}H NMR (1D selective NOE) spectrum of compound **31** (400 MHz; $CDCl_3$).

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Pulse Sequence	zg30	***Solvent***	BENZENE-D6	***Sweep Width (Hz)***	5175.98	***Temperature (degree C)***	25.160

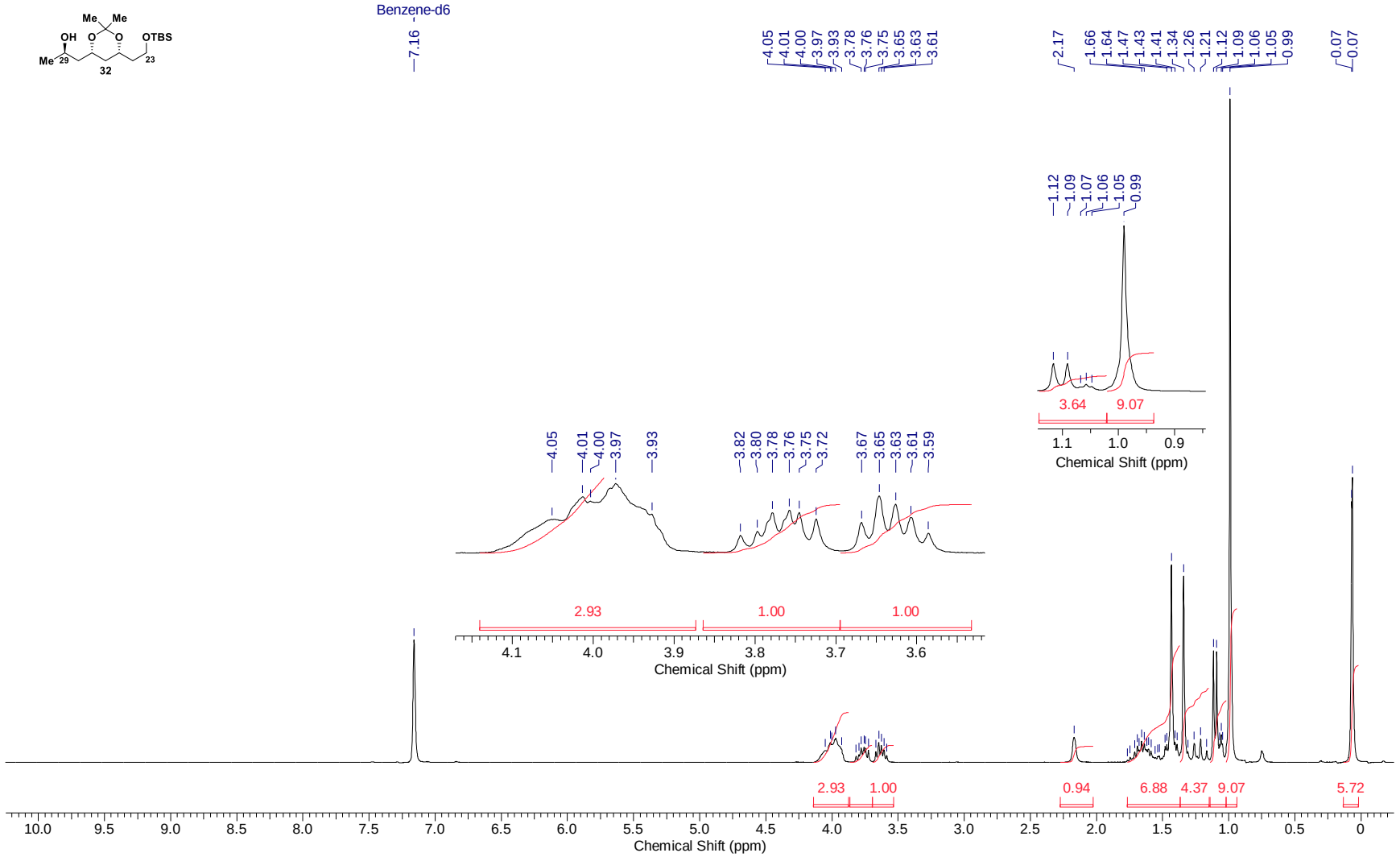

Figure S26: ^{1}H NMR spectrum of compound **32** (250 MHz; C_6D_6).

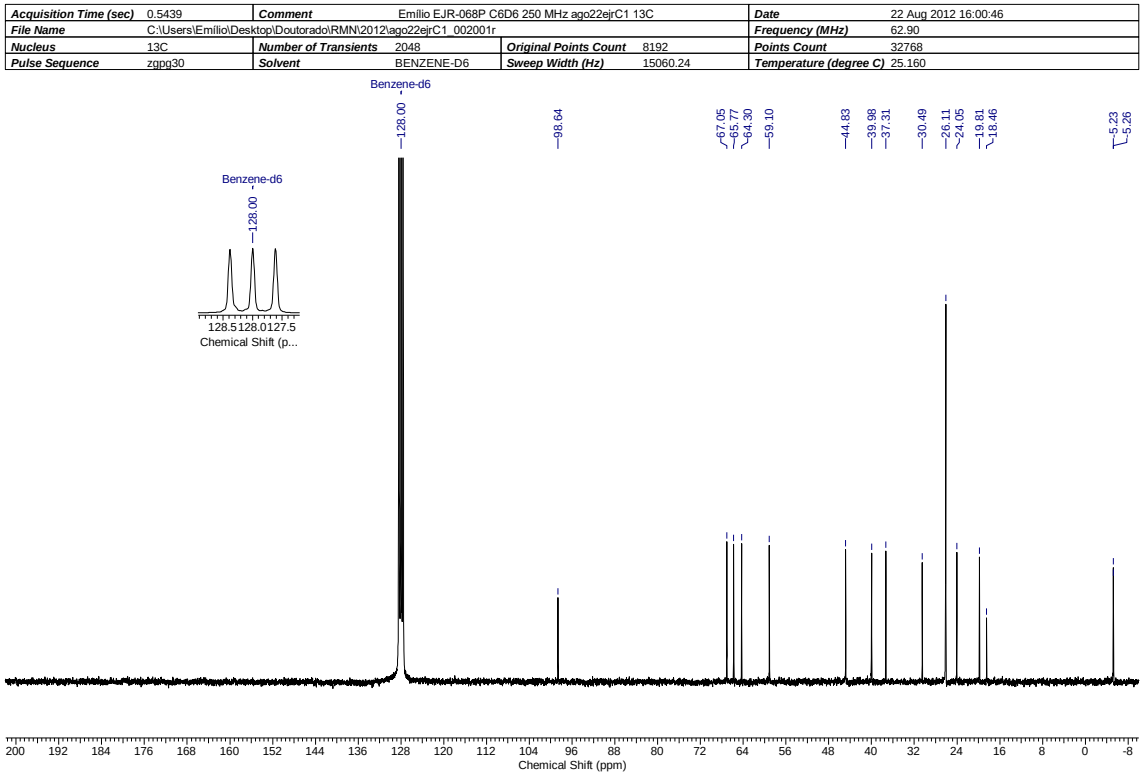

Figure S27: ^{13}C NMR spectrum of compound **32** (62.5 MHz; C_6D_6).

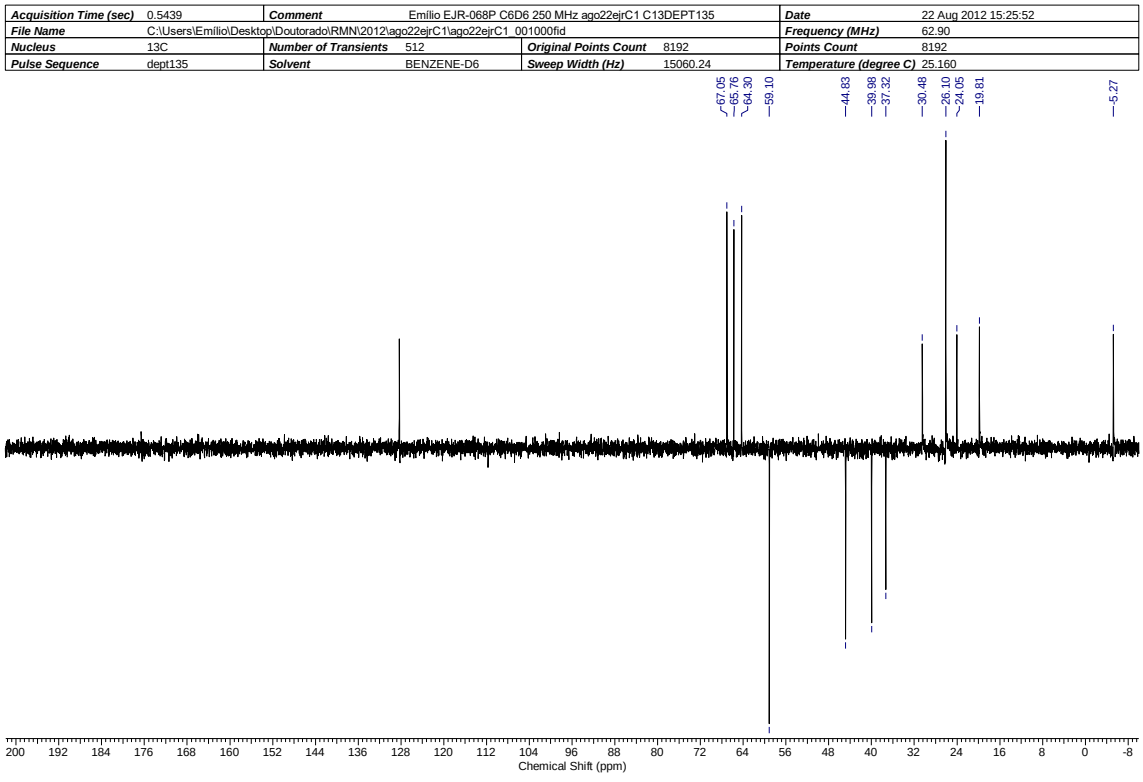

Figure S28: ^{13}C NMR (dept 135) spectrum of compound **32** (62.5 MHz; C_6D_6).

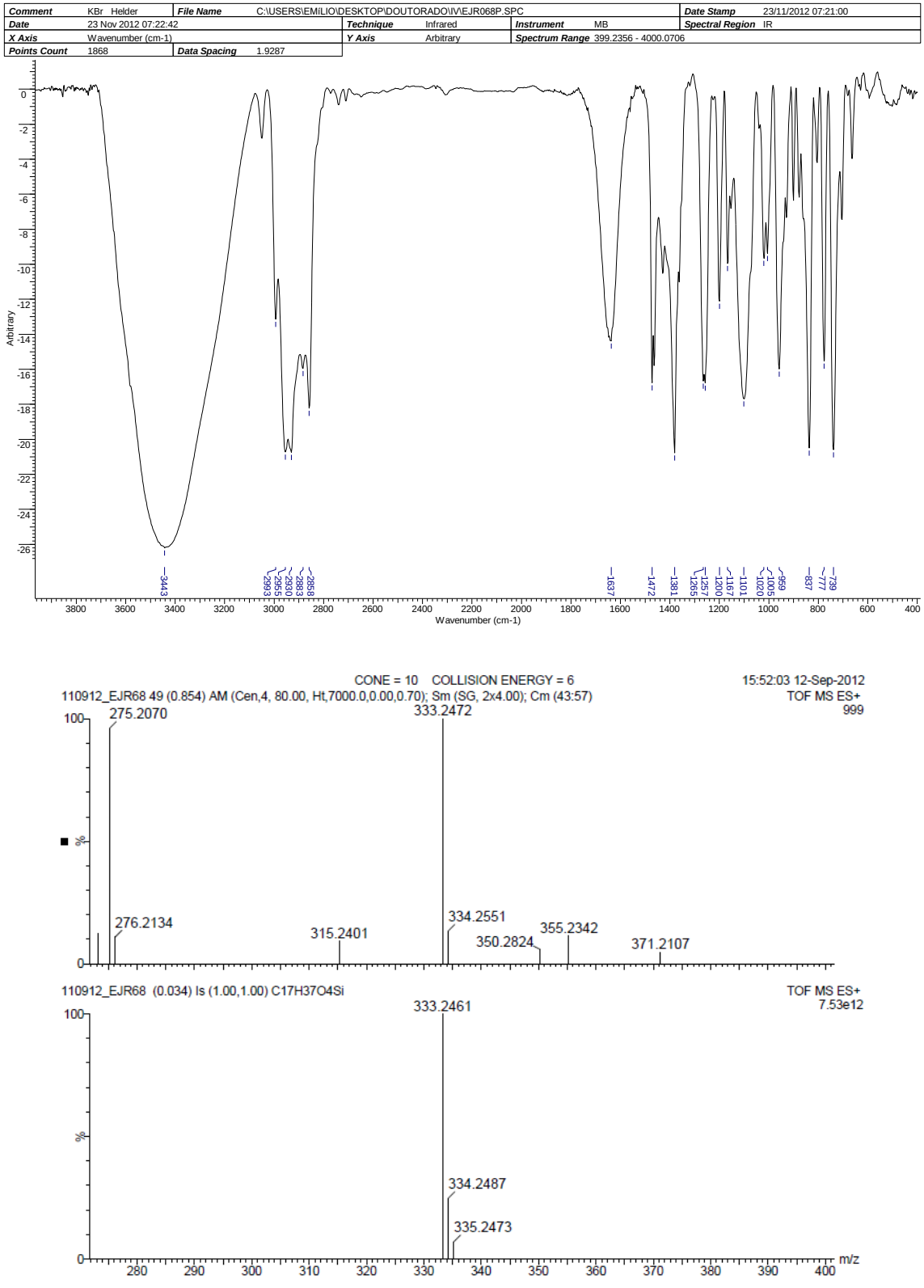

Figure S29: IR and HRMS (ESI TOF-MS) spectra of compound **32**.

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Nucleus	1H	***Number of Transients***	32	***Original Points Count***	16384	***Points Count***	32768
Pulse Sequence	zg30	***Solvent***	BENZENE-D6	***Sweep Width (Hz)***	5175.98	***Temperature (degree C)***	25.160

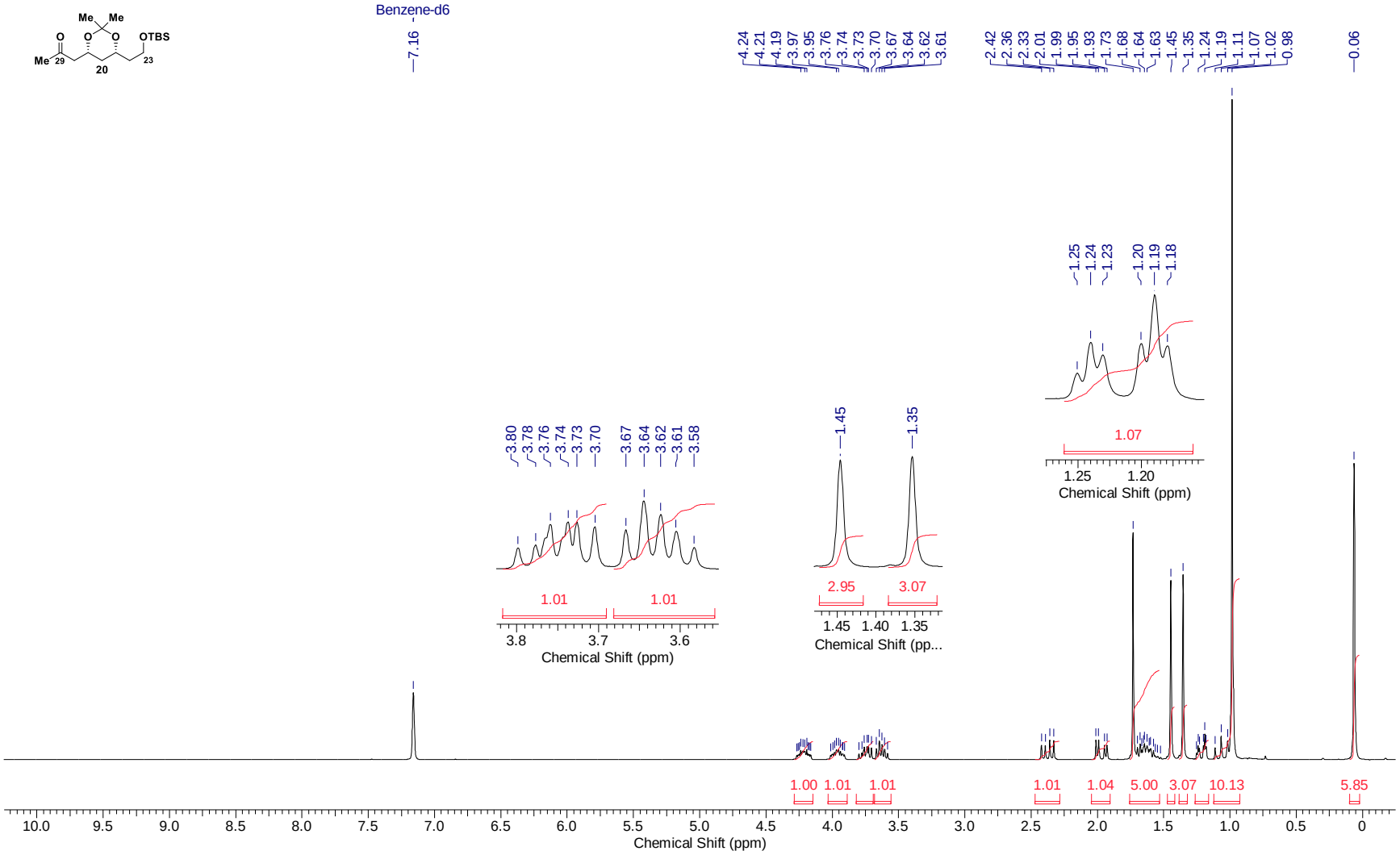

Figure S30: ^{1}H NMR spectrum of compound **20** (250 MHz; C_6D_6).

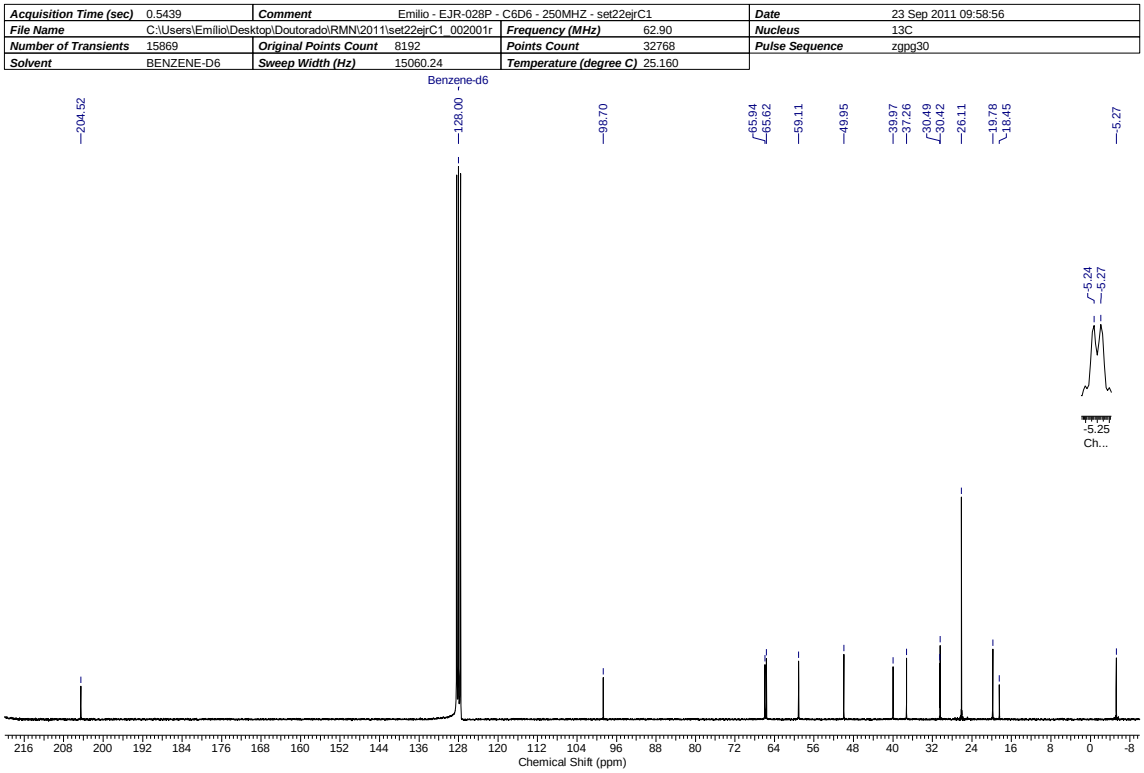

Figure S31: ^{13}C NMR spectrum of compound **20** (62.5 MHz; C_6D_6).

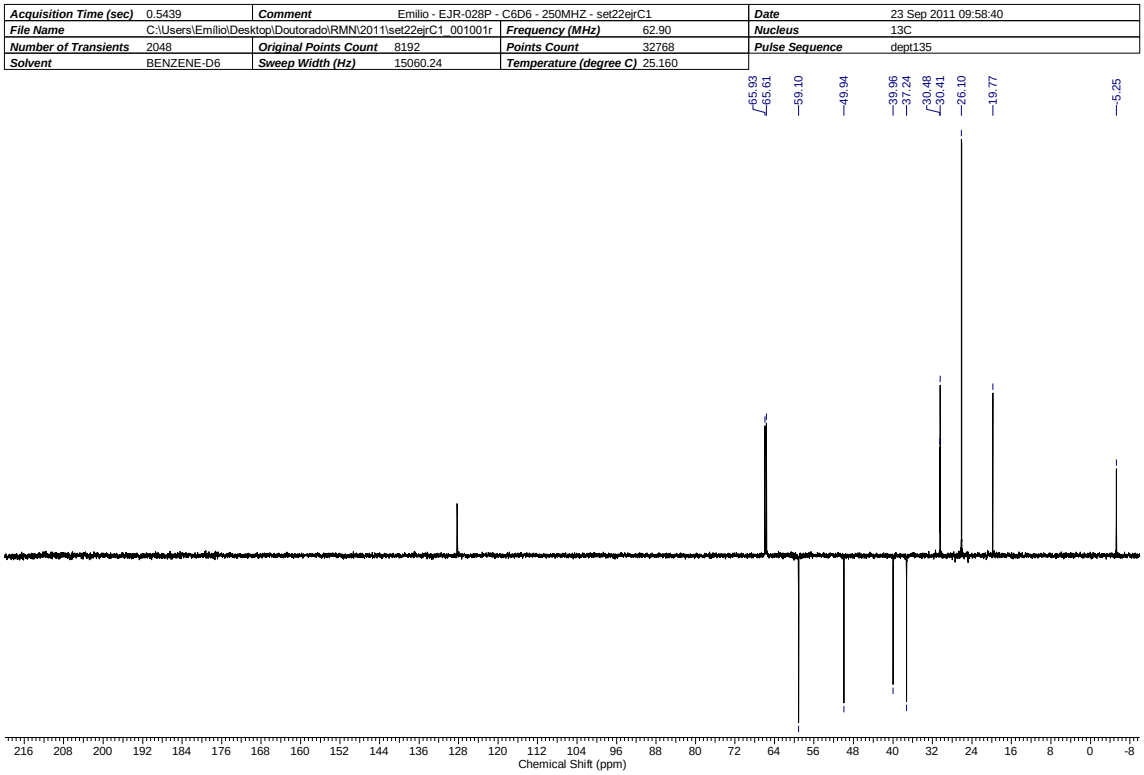

Figure S32: ^{13}C NMR (dept 135) spectrum of compound **20** (62.5 MHz; C_6D_6).

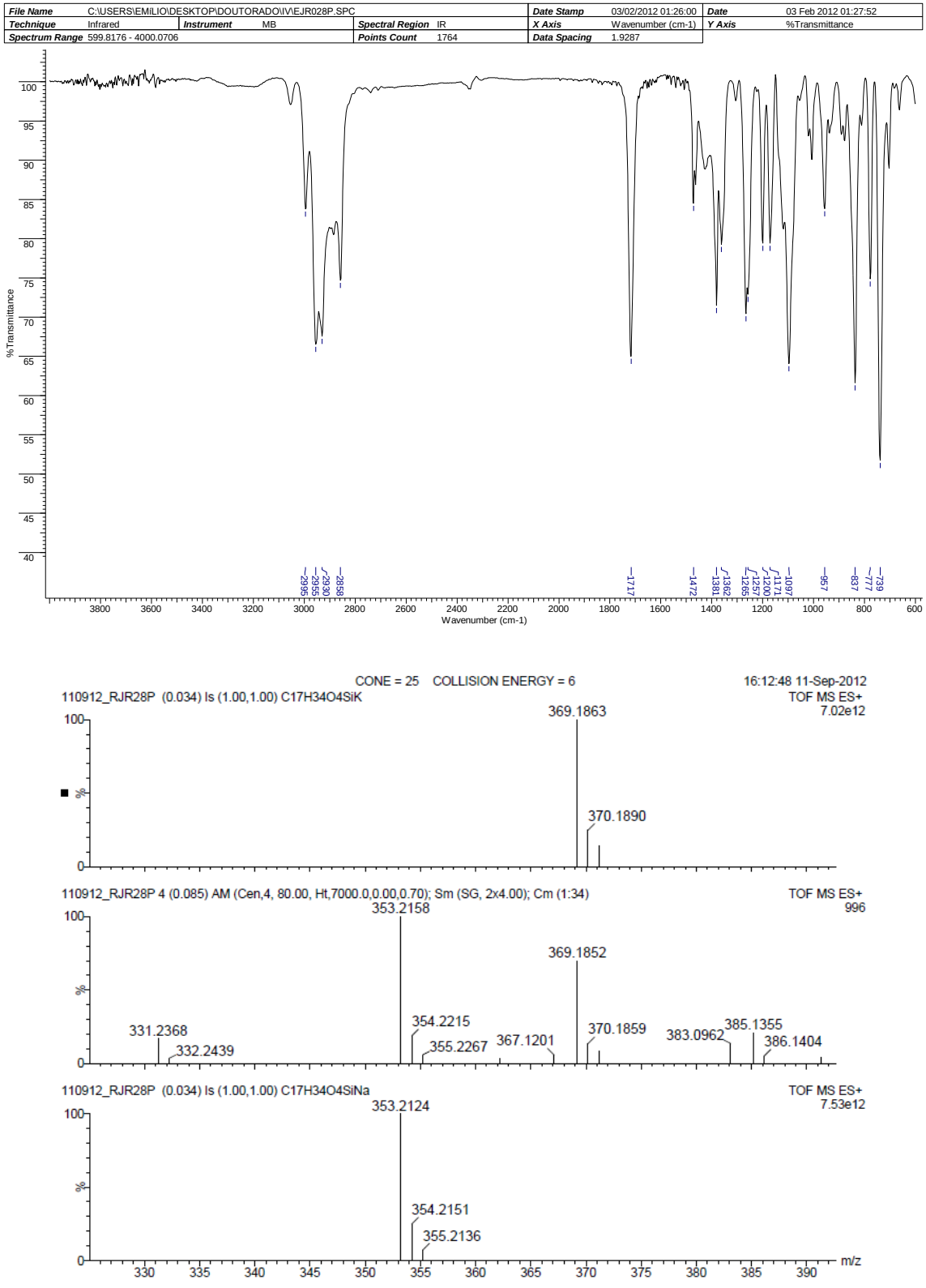

Figure S33: IR and HRMS (ESI TOF-MS) spectra of compound **20**.

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Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	12335.53
Temperature (degree C)	25.343						

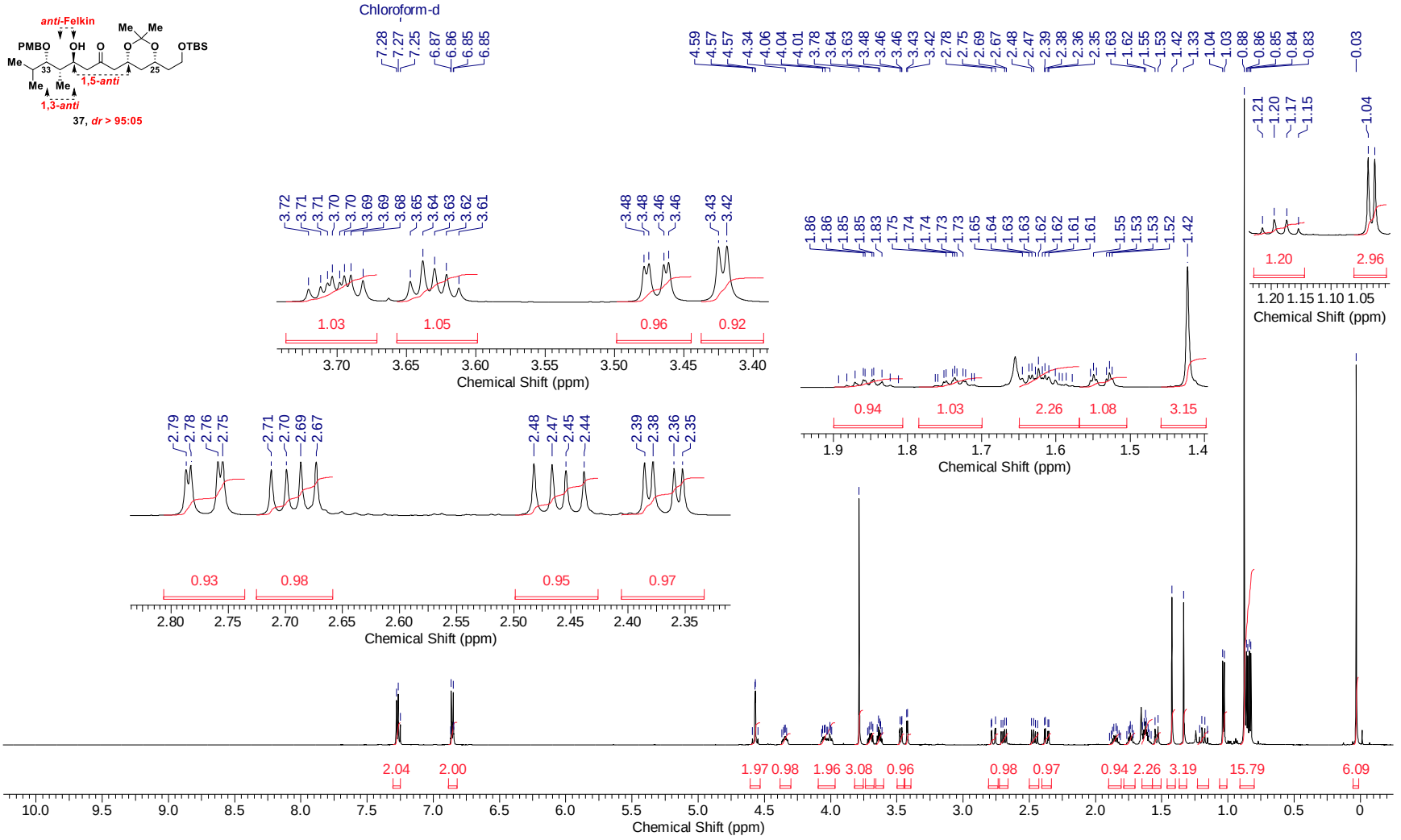


Figure S34: ^{1}H NMR spectrum of compound **37** (600 MHz; $CDCl_3$).

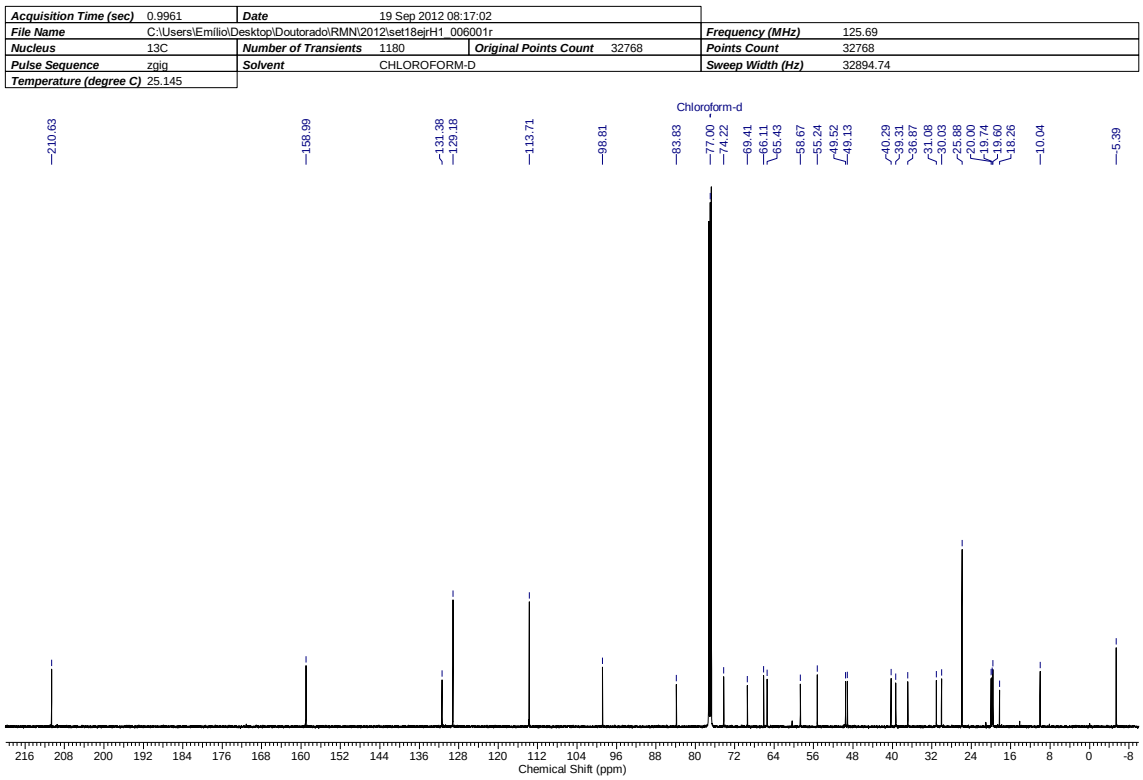


Figure S35: ^{13}C NMR spectrum of compound **37** (125 MHz; $CDCl_3$).

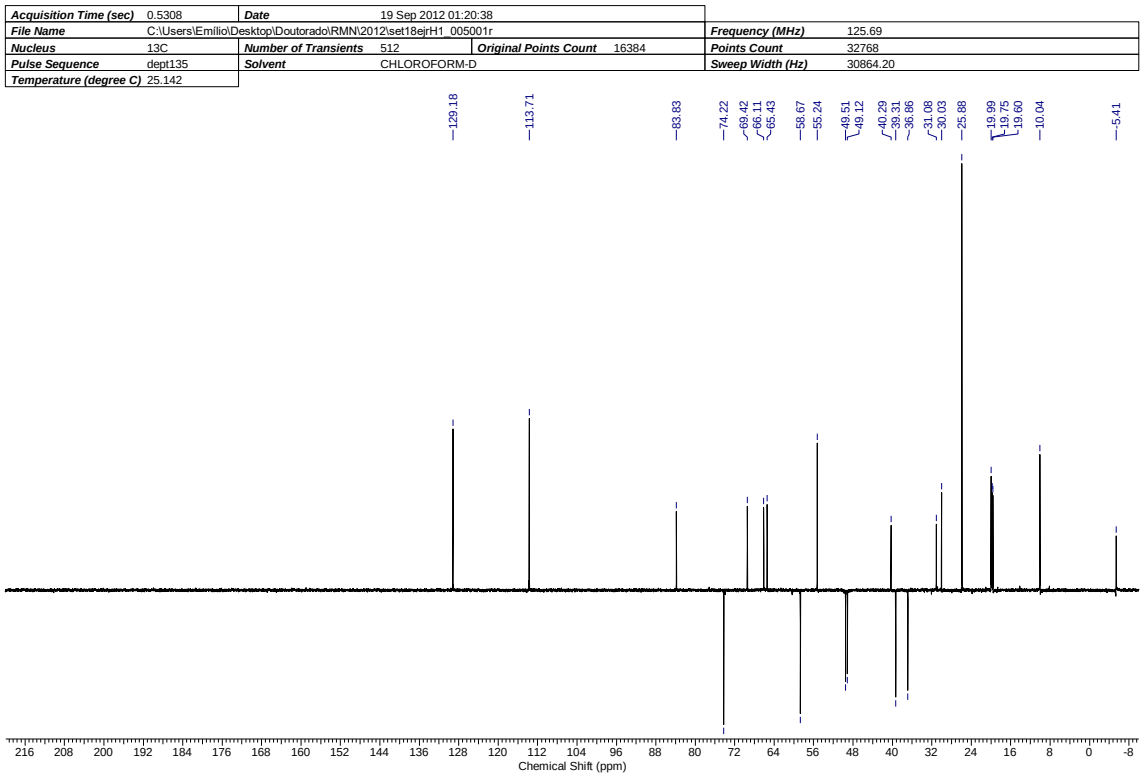
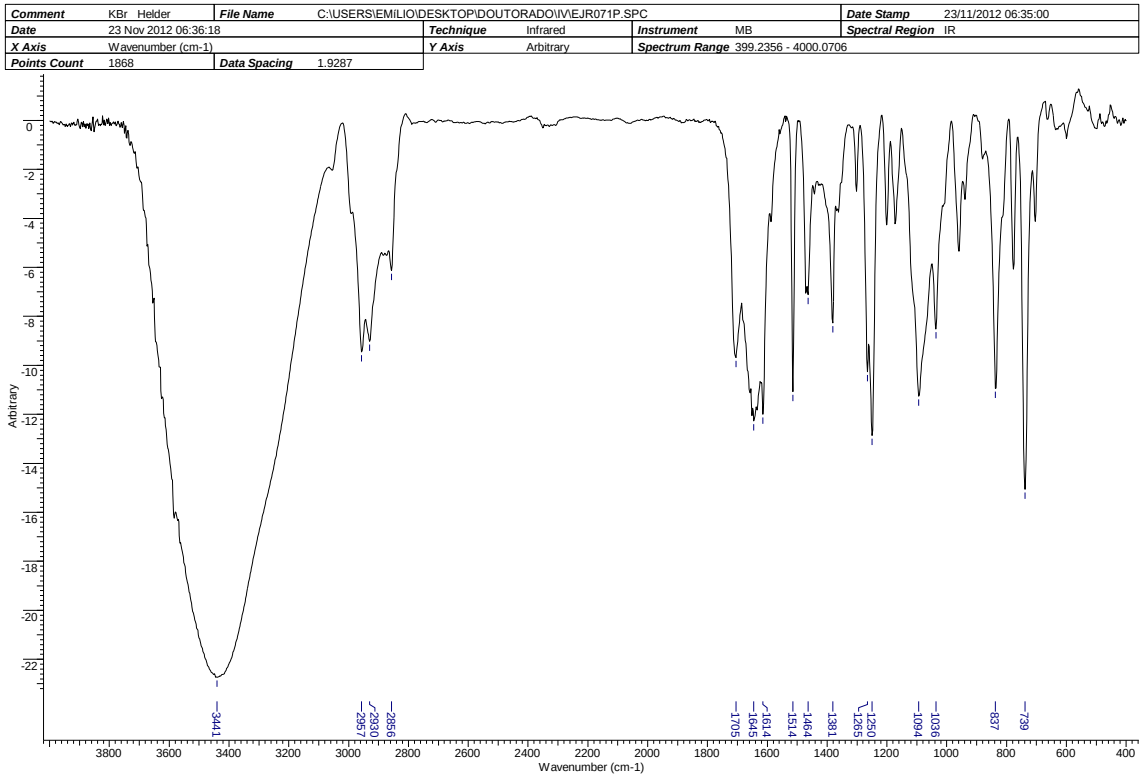


Figure S36: ^{13}C NMR (dept 135) spectrum of compound **37** (125 MHz; $CDCl_3$).



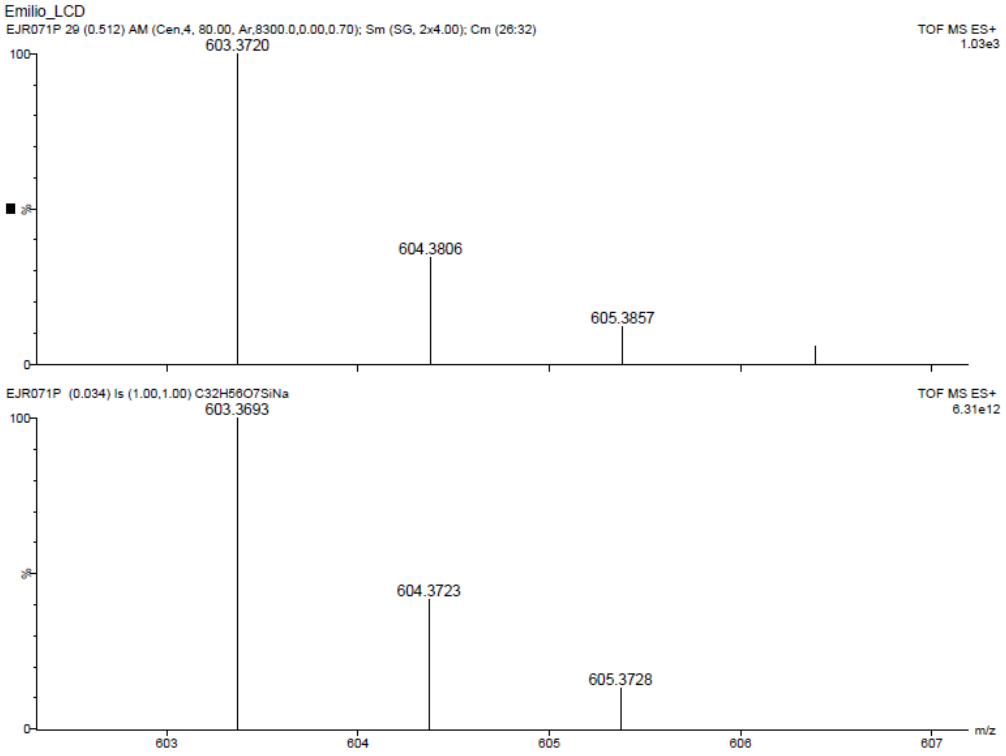


Figure S37: IR and HRMS (ESI TOF-MS) spectra of compound **37**.

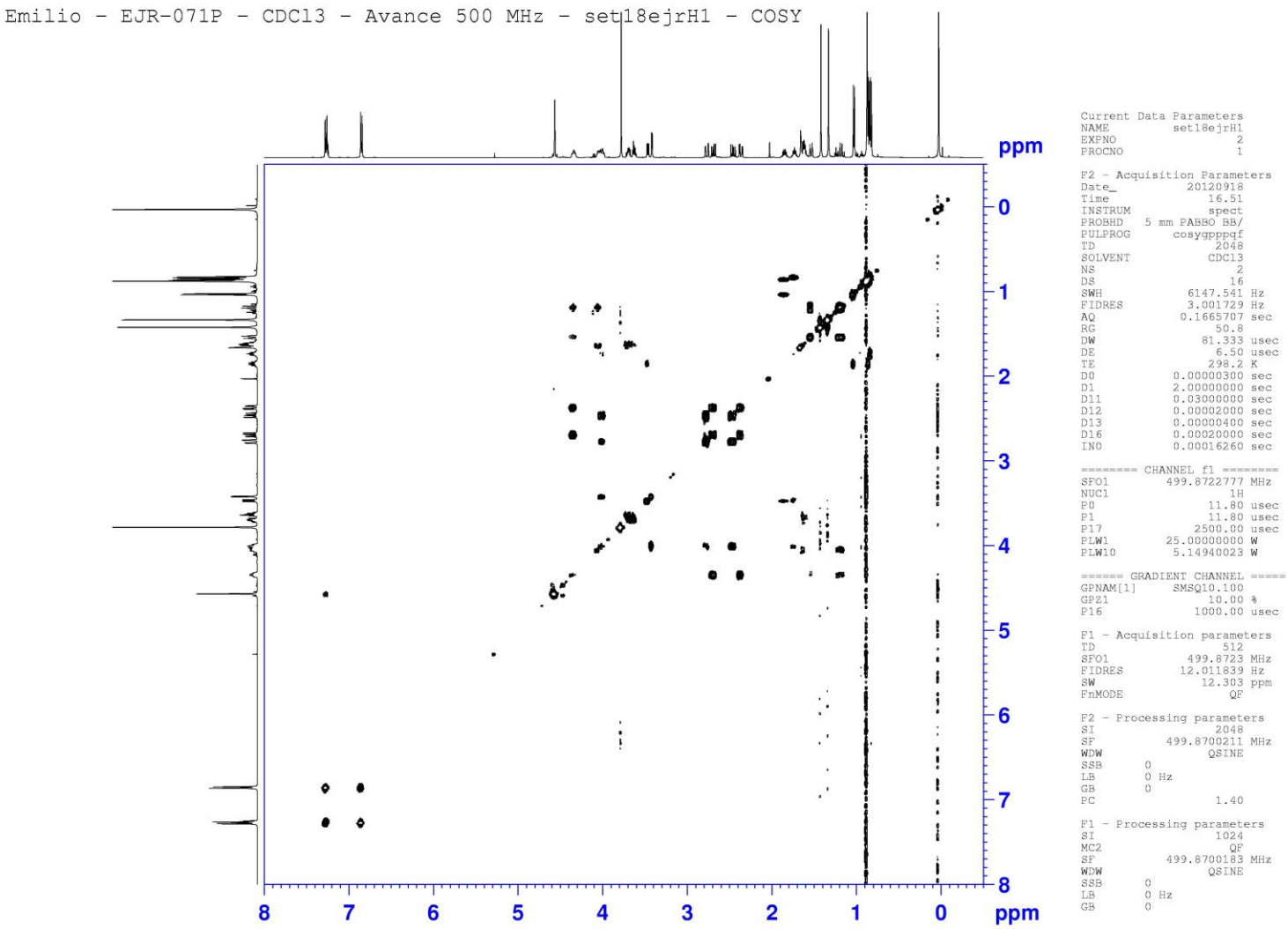


Figure S38: COSY contour map of compound **37** (500 MHz; $CDCl_3$).

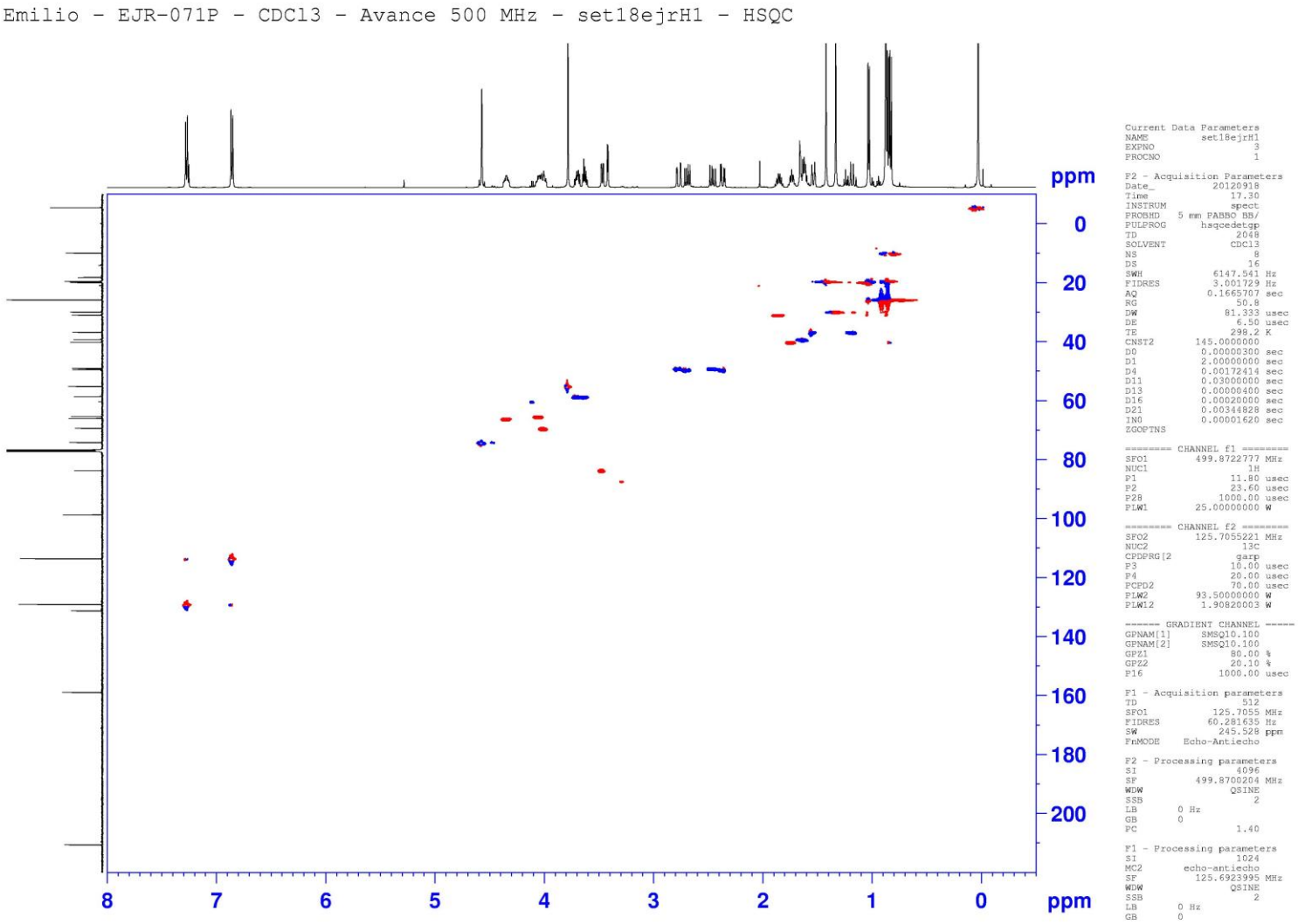


Figure S39: HSQC contour map of compound **37**.

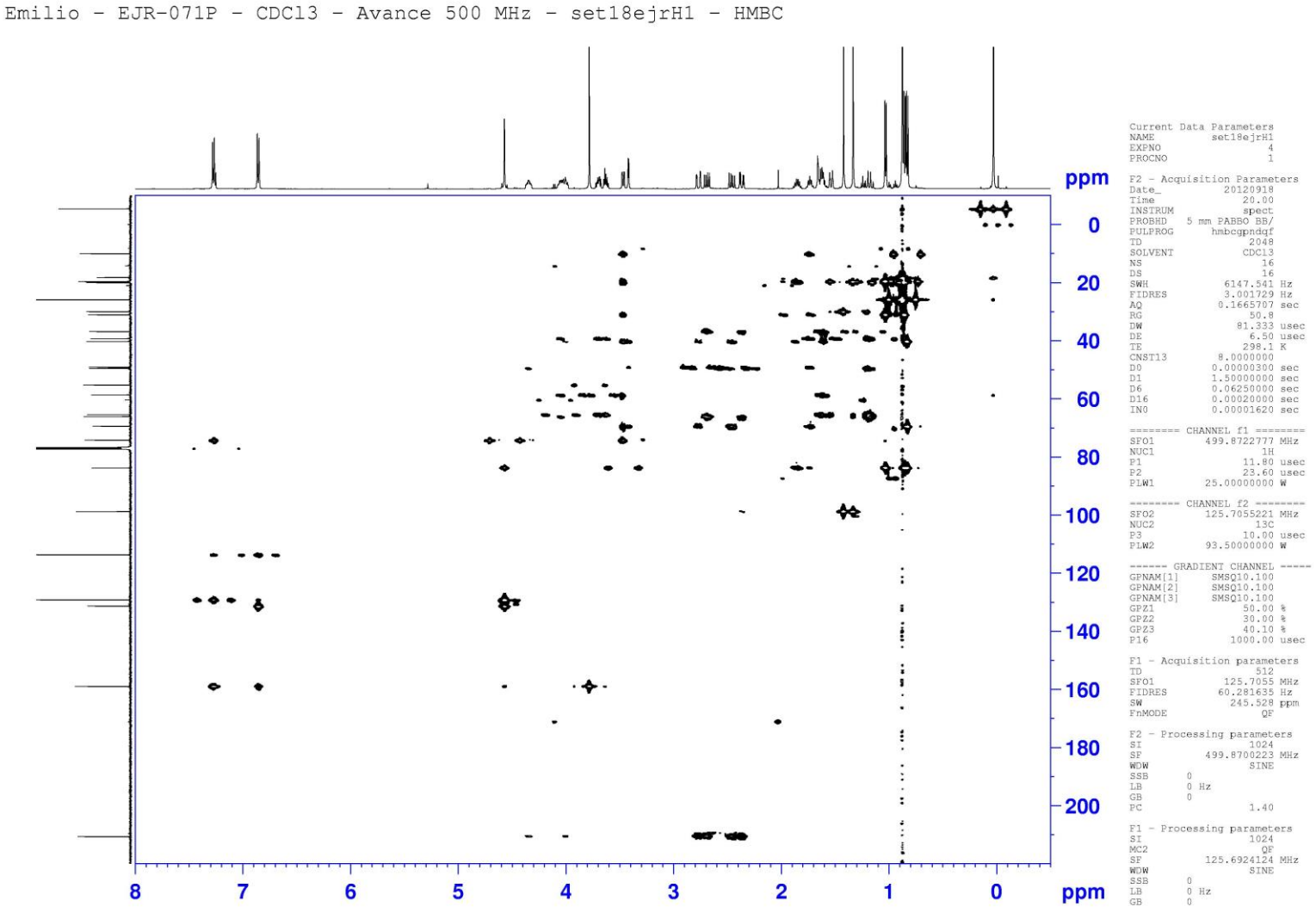


Figure S40: HMBC contour map of compound **37**.

Acquisition Time (sec)	1.5903	***Date***	19 Sep 2012 15:49:56				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2012\set19ejrH1_001001r					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	10302.20
Temperature (degree C)	25.141						

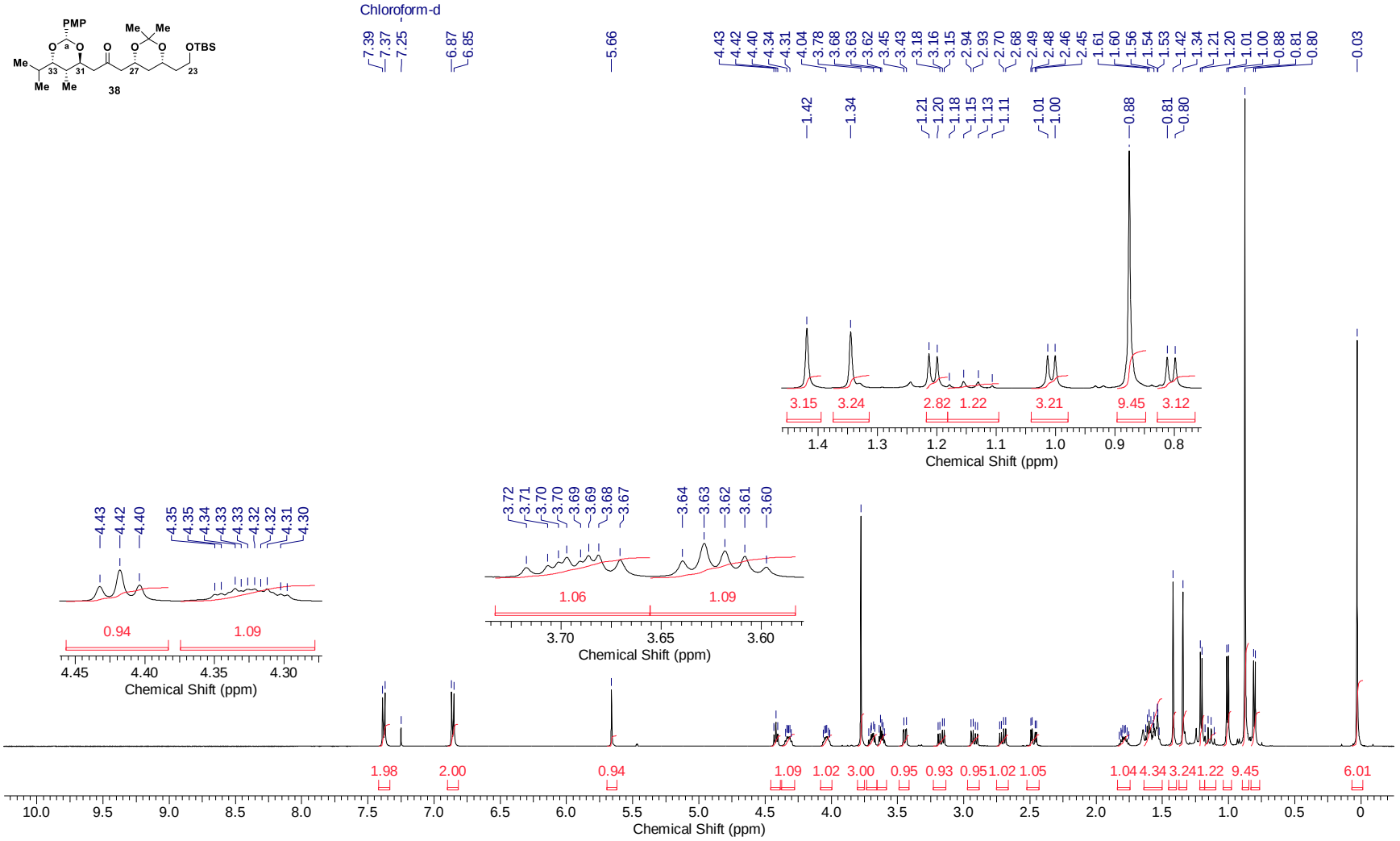


Figure S41: ^{1}H NMR spectrum of compound **38** (500 MHz; $CDCl_3$).

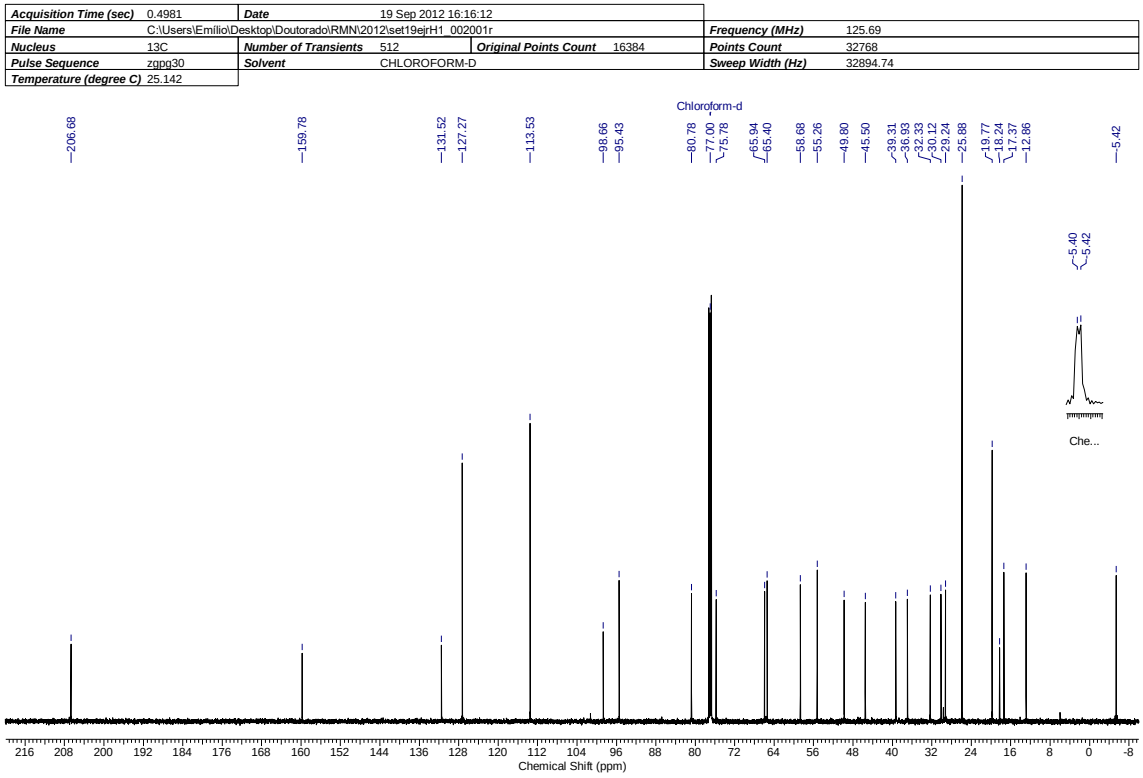


Figure S42: ^{13}C NMR spectrum of compound **38** (125 MHz; $CDCl_3$).

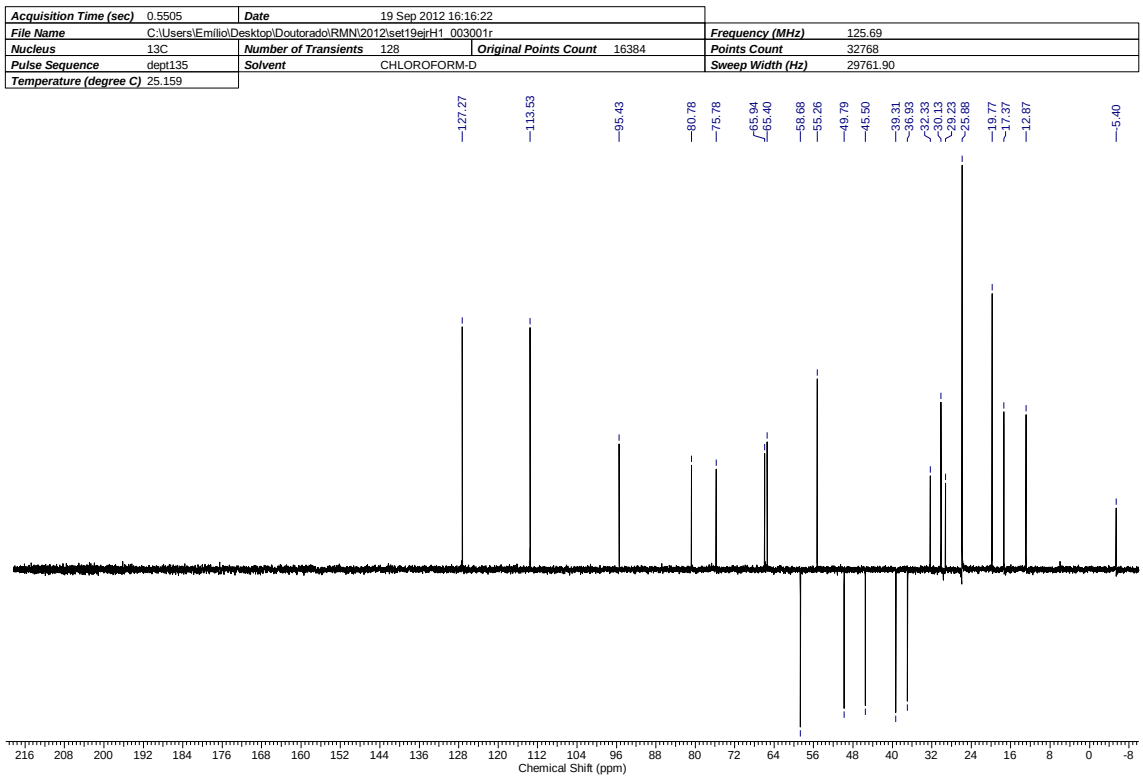


Figure S43: ^{13}C NMR (dept 135) spectrum of compound **38** (125 MHz; $CDCl_3$).

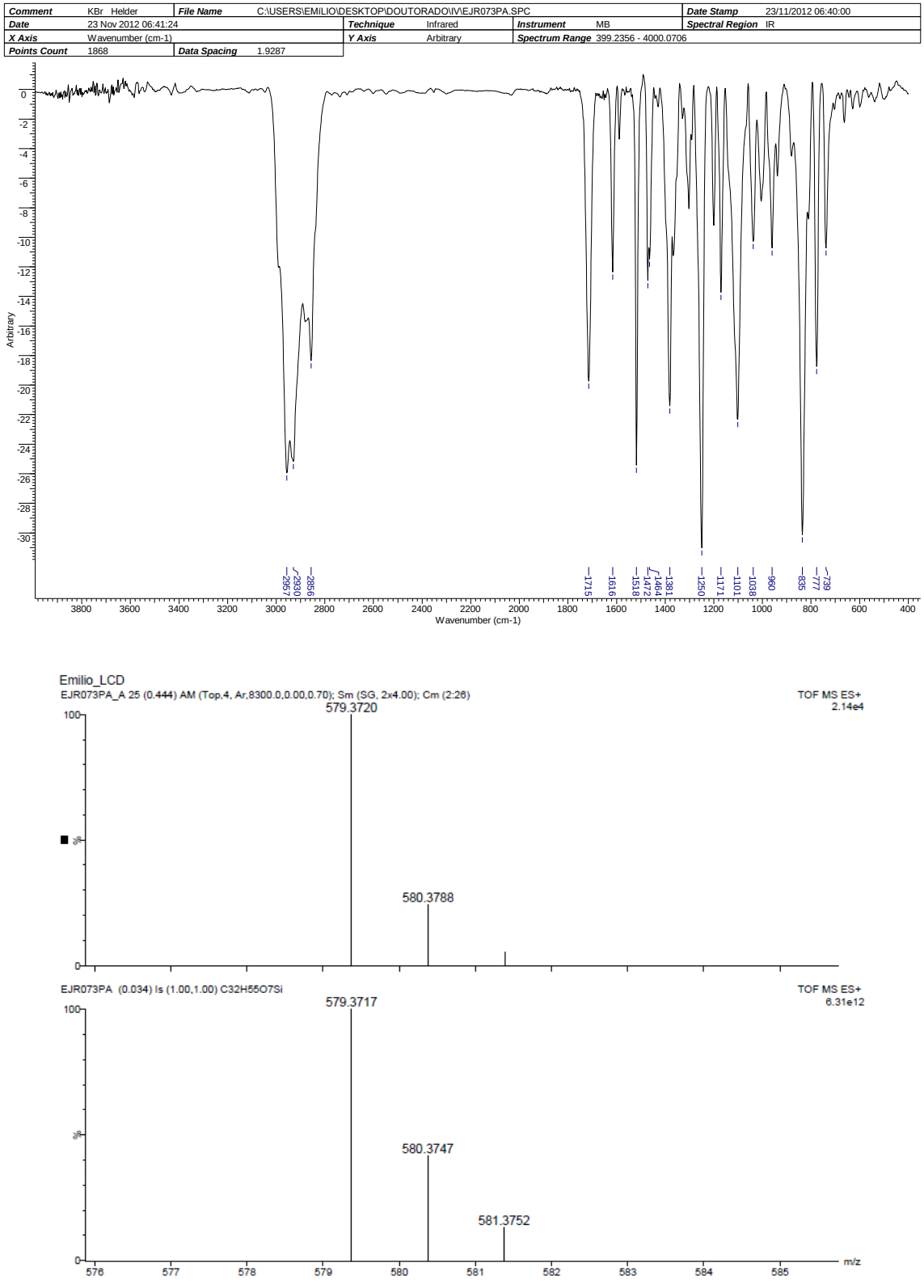


Figure S44: IR and HRMS (ESI TOF-MS) spectra of compound **38**.

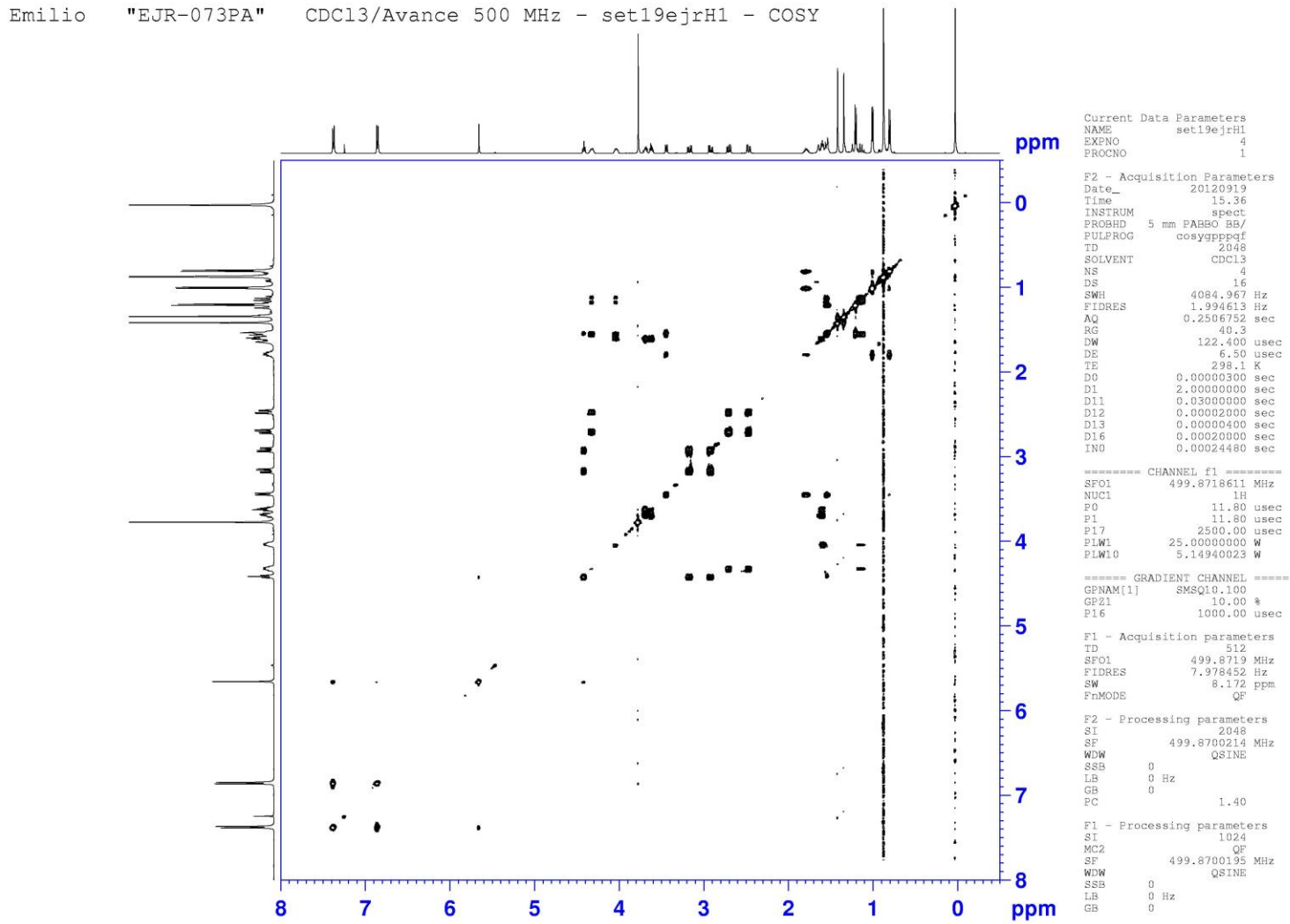


Figure S45: COSY contour map of compound **38** (500 MHz; $CDCl_3$).

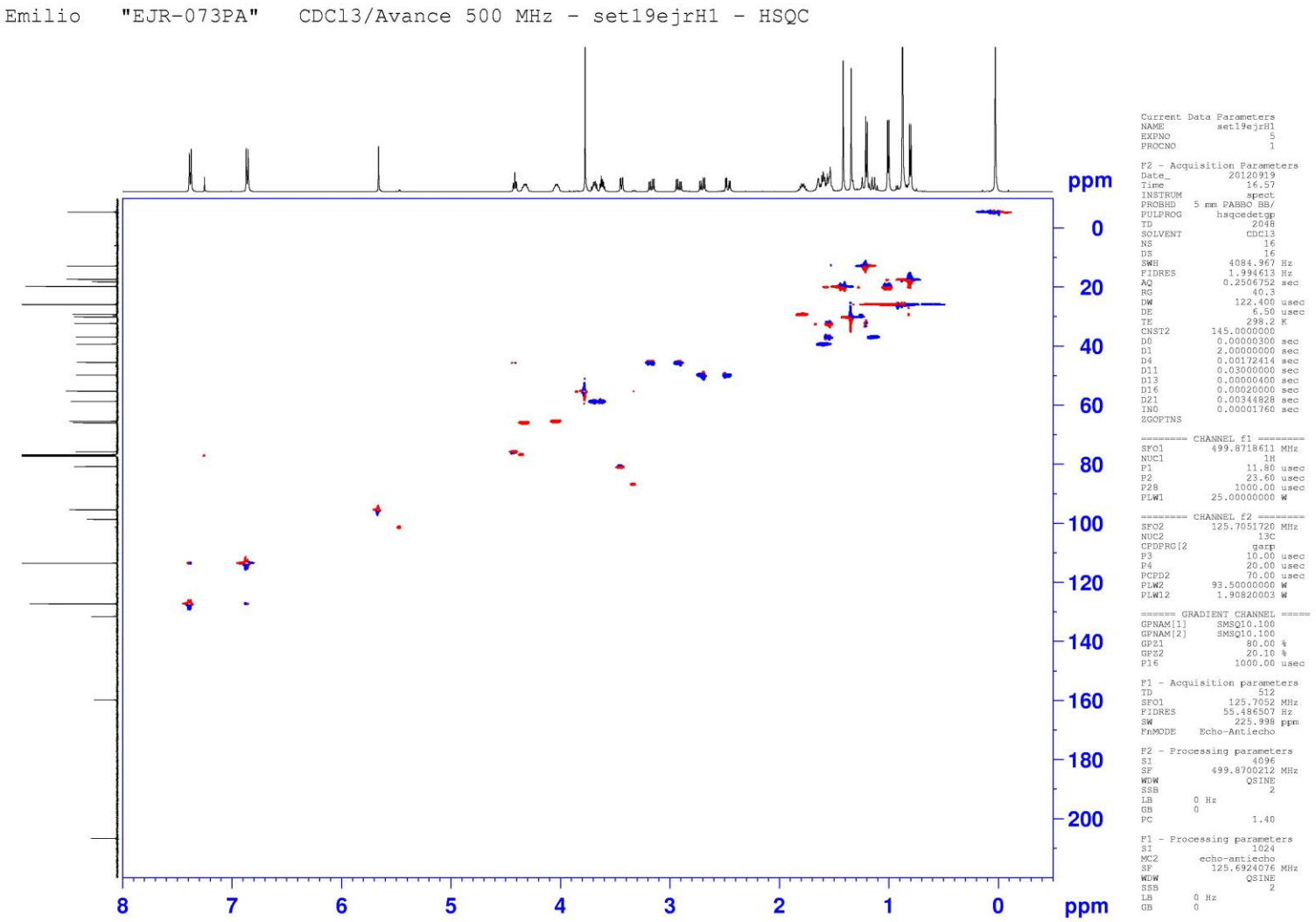


Figure S46: HSQC contour map of compound **38**.

Acquisition Time (sec)	3.5652	***Date***	20 Sep 2012 09:35:28				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2012\set20ejrH1_004001r					***Frequency (MHz)***	400.18
Nucleus	1H	***Number of Transients***	256	***Original Points Count***	16384	***Points Count***	32768
Pulse Sequence	selnogp	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	4595.59
Temperature (degree C)	22.460						

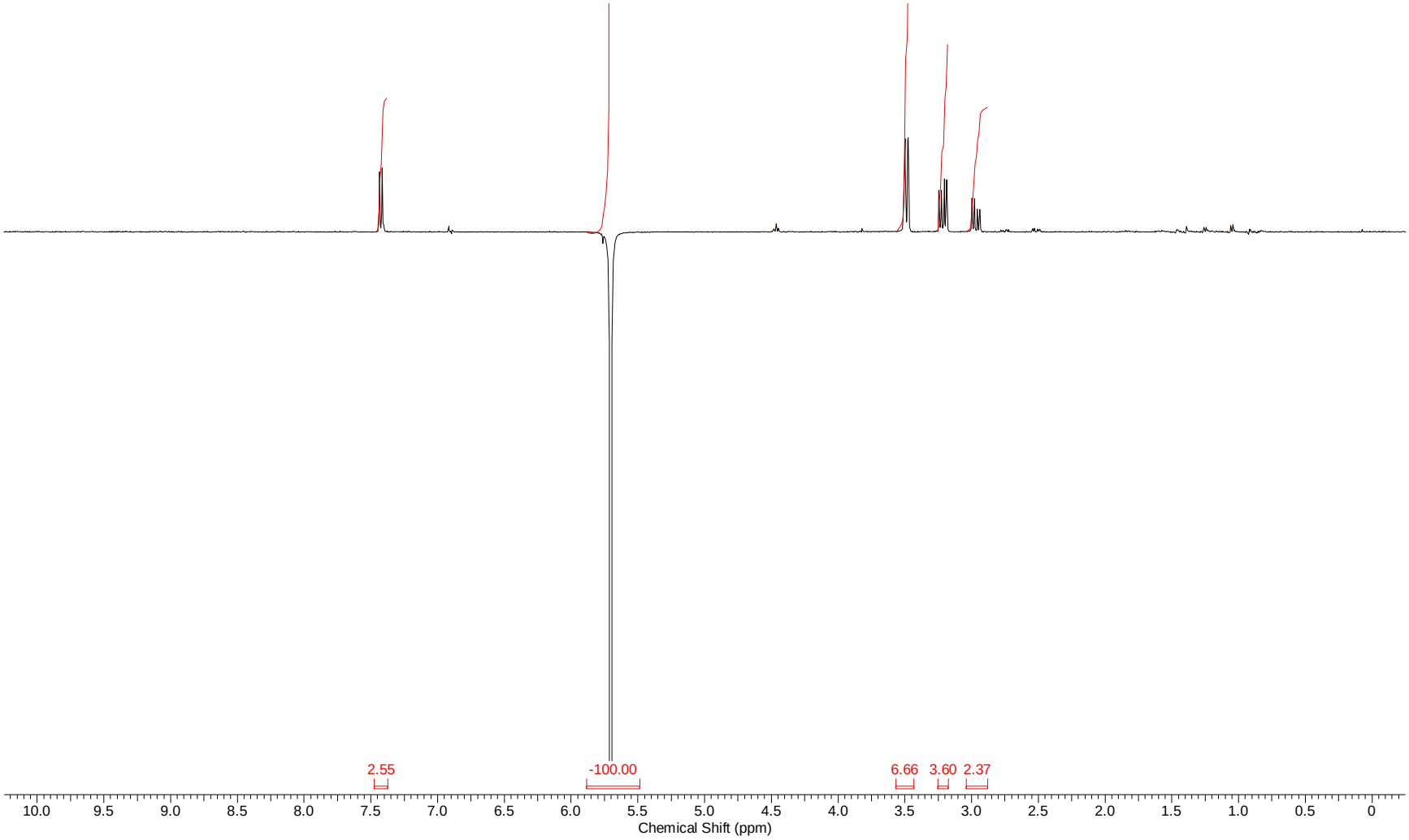


Figure S47: ^{1}H NMR (1D selective NOE) spectrum of compound **38** (400 MHz; $CDCl_3$).

Acquisition Time (sec)	3.5652	***Date***	20 Sep 2012 11:27:58				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2012\set20ejrH1_006001r					***Frequency (MHz)***	400.18
Nucleus	1H	***Number of Transients***	256	***Original Points Count***	16384	***Points Count***	32768
Pulse Sequence	selnogp	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	4595.59
Temperature (degree C)	22.360						

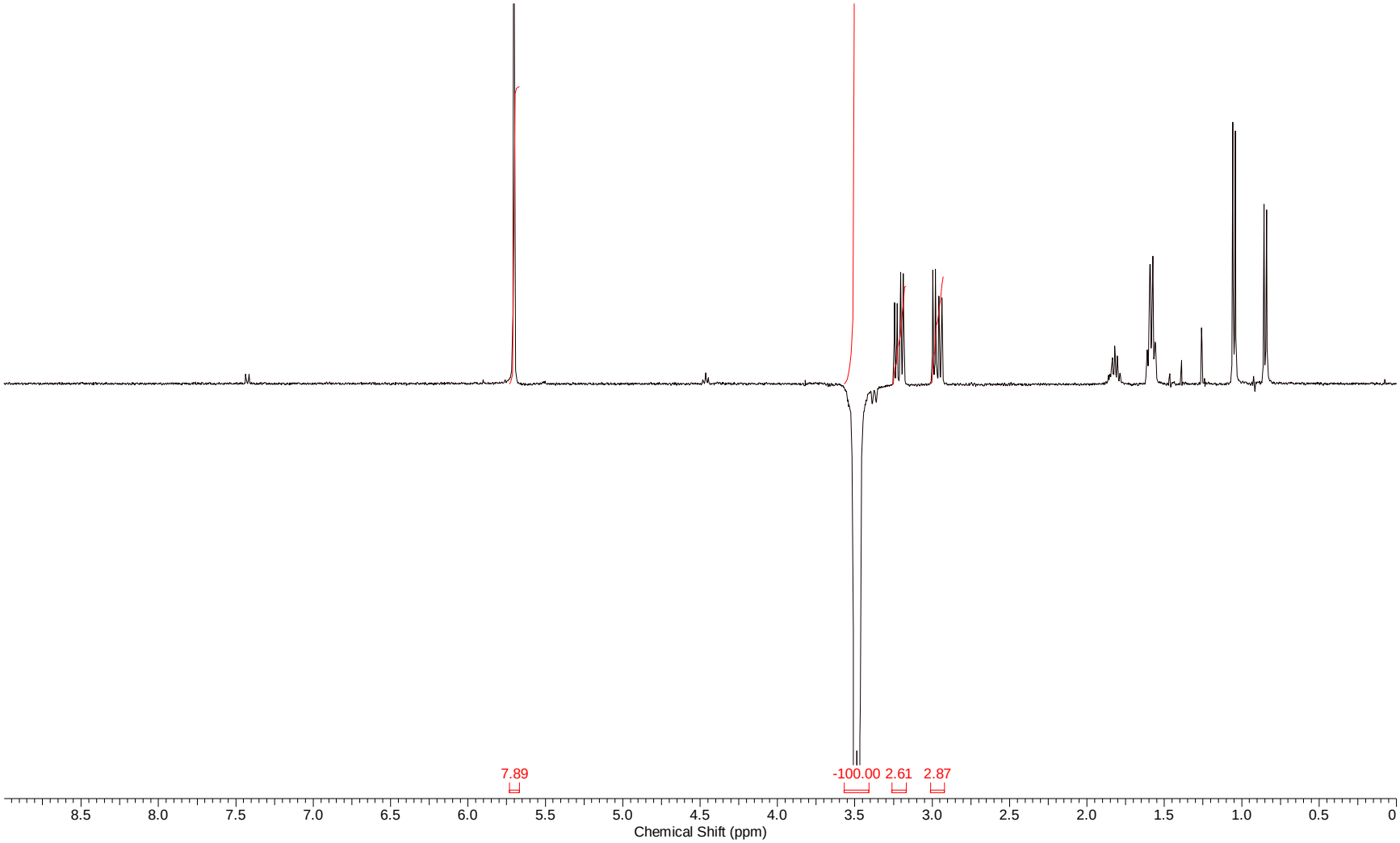


Figure S48: ^{1}H NMR (1D selective NOE) spectrum of compound **38** (400 MHz; $CDCl_3$).

Acquisition Time (sec)	3.5652	***Date***	20 Sep 2012 12:36:34				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2012\set20ejrH1_008001r					***Frequency (MHz)***	400.18
Nucleus	1H	***Number of Transients***	256	***Original Points Count***	16384	***Points Count***	32768
Pulse Sequence	selnogp	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	4595.59
Temperature (degree C)	22.460						

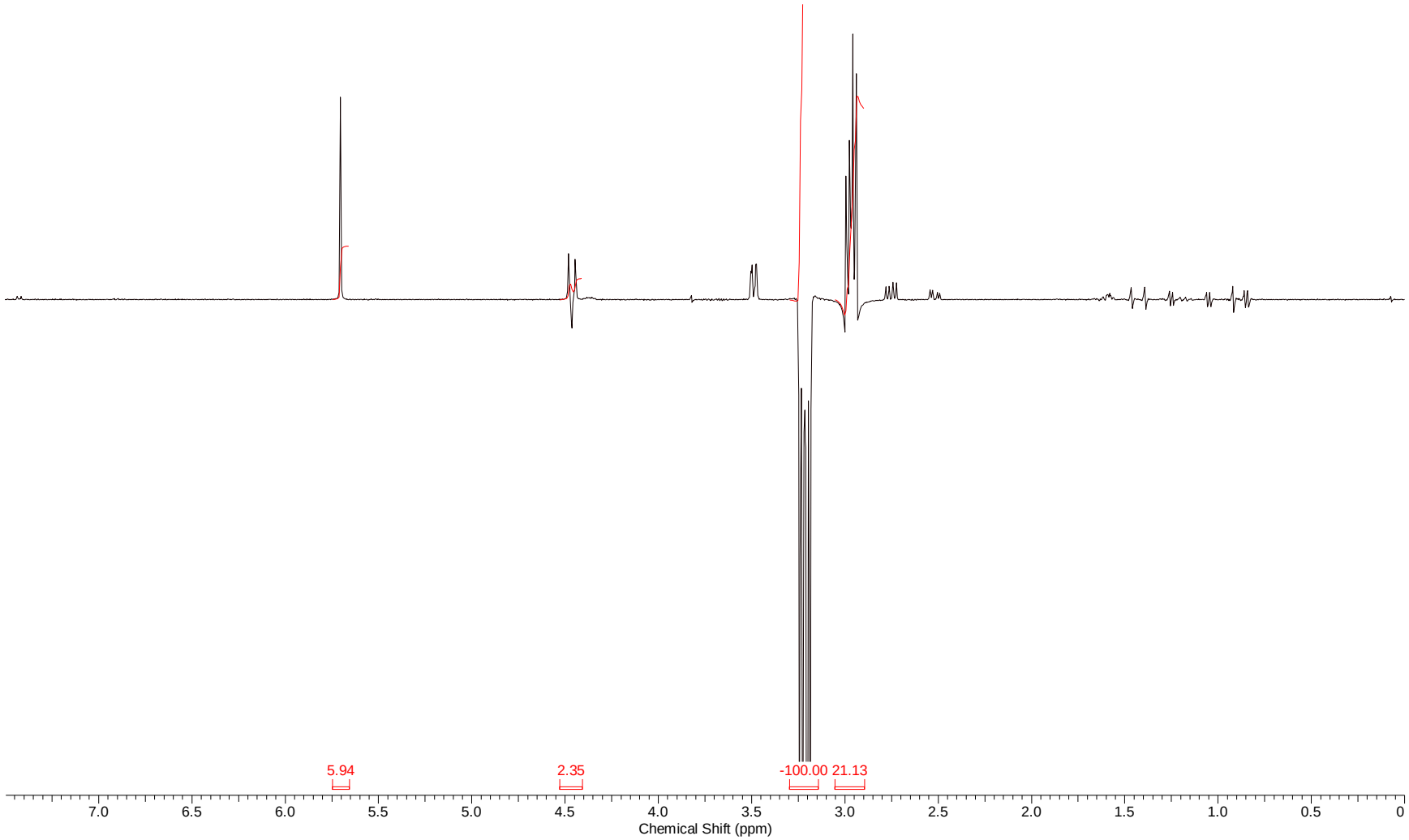


Figure S49: ^{1}H NMR (1D selective NOE) spectrum of compound **38** (400 MHz; $CDCl_3$).

Acquisition Time (sec)	1.5903	***Date***	21 Sep 2012 11:13:28				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2012\set21ejrH2_001001r					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	10302.20
Temperature (degree C)	25.148						

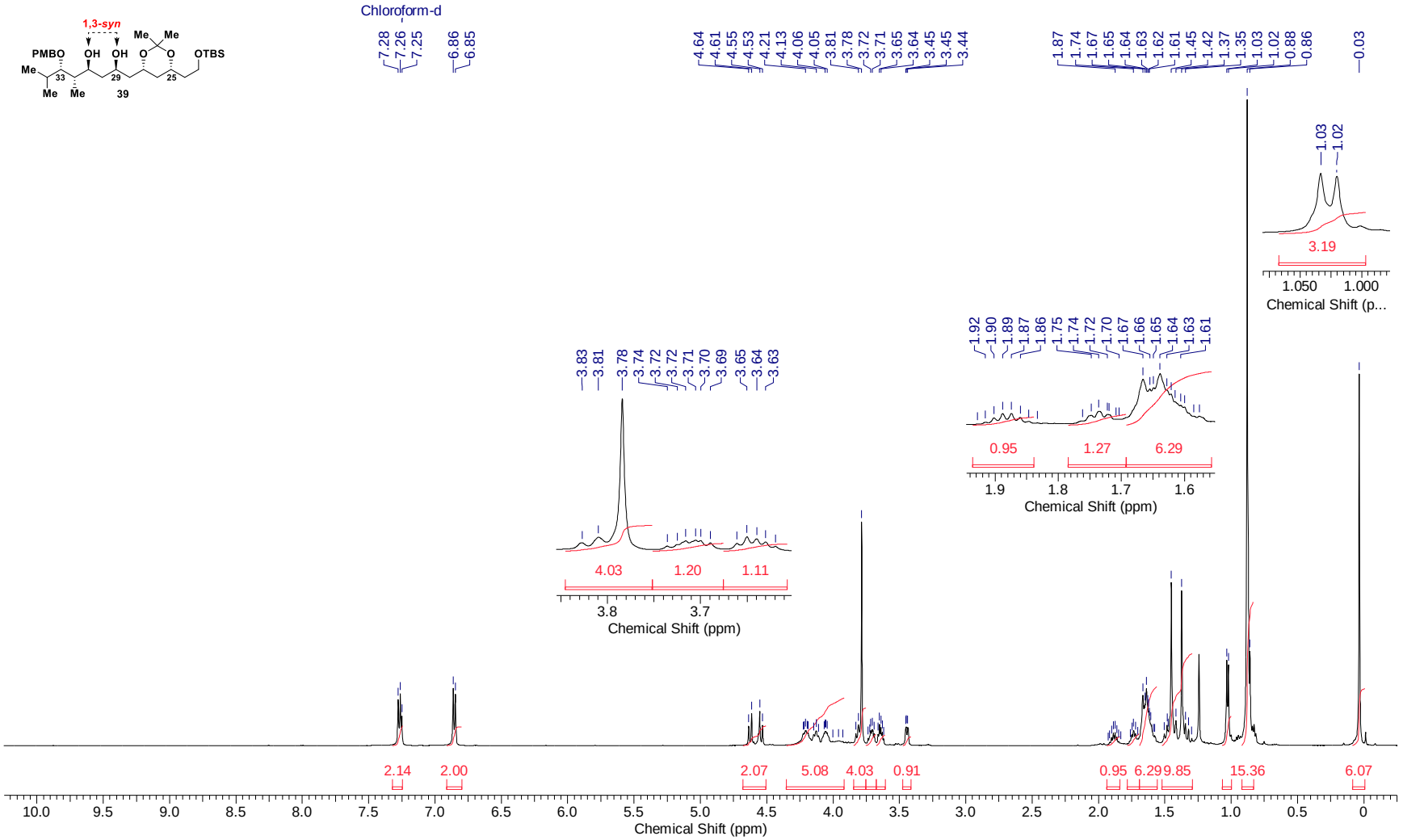


Figure S50: ^{1}H NMR spectrum of compound **39** (500 MHz; $CDCl_3$).

Acquisition Time (sec)	0.5439	***Comment***	Emílio - EJR-072 - CDCl3 - set20ejrH			***Date***	21 Sep 2012 12:27:14
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2012\set20ejrH_003001r			***Frequency (MHz)***	62.90	***Nucleus***	13C
Number of Transients	12544	***Original Points Count***	8192	***Points Count***	32768	***Pulse Sequence***	zgpg30
Solvent	CHLOROFORM-D			***Sweep Width (Hz)***	15060.24	***Temperature (degree C)***	25.160

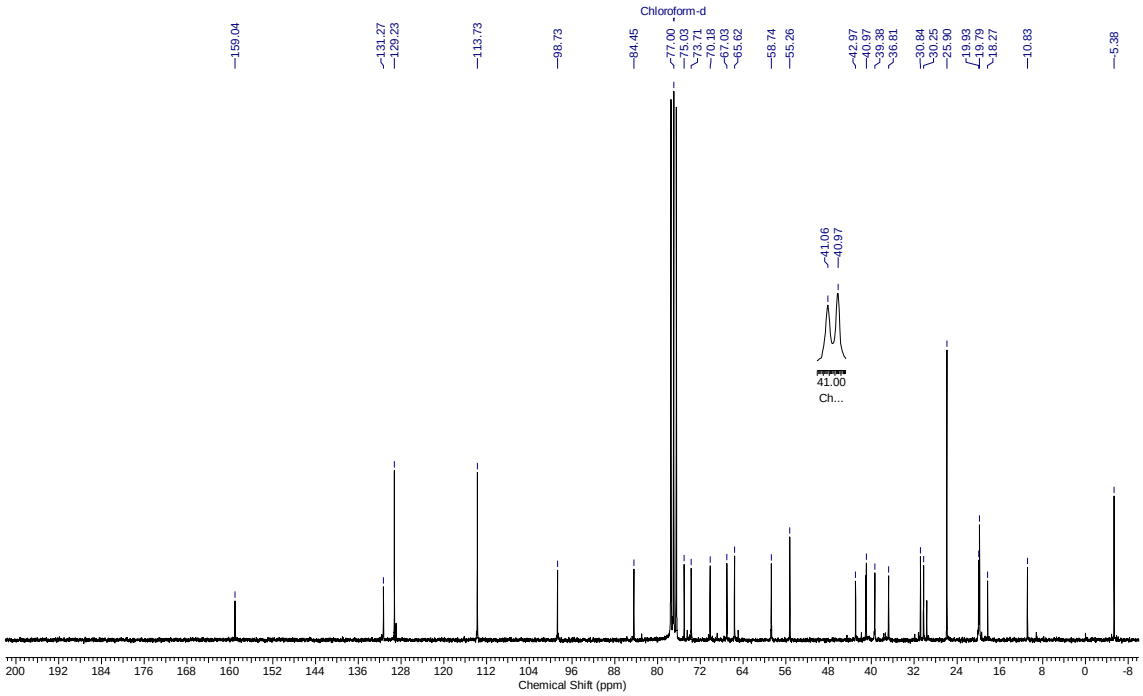


Figure S51: ^{13}C NMR spectrum of compound **39** (62.5 MHz; $CDCl_3$).

Acquisition Time (sec)	0.5439	***Comment***	Emílio - EJR-072 - CDCl3 - set20ejrH			***Date***	21 Sep 2012 12:27:02
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2012\set20ejrH_002001r					***Frequency (MHz)***	62.90
Nucleus	13C	***Number of Transients***	1024	***Original Points Count***	8192	***Points Count***	32768
Pulse Sequence	dept135	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	15060.24
Temperature (degree C)	25.160						

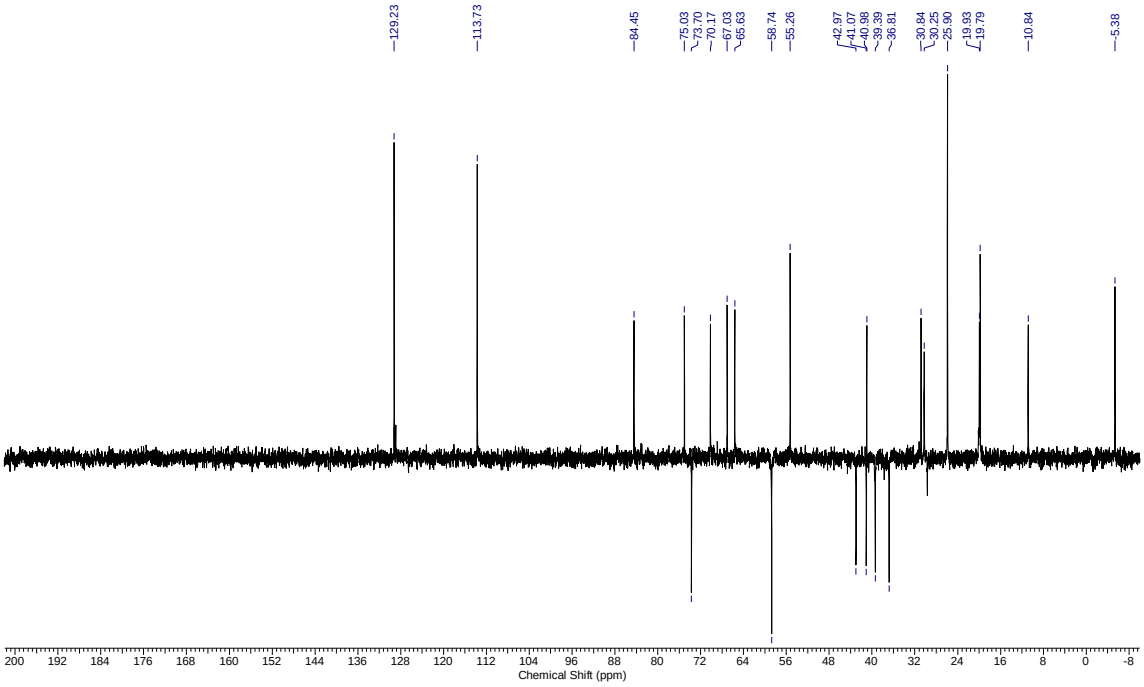


Figure S52: ^{13}C NMR (dept 135) spectrum of compound **39** (62.5 MHz; $CDCl_3$).

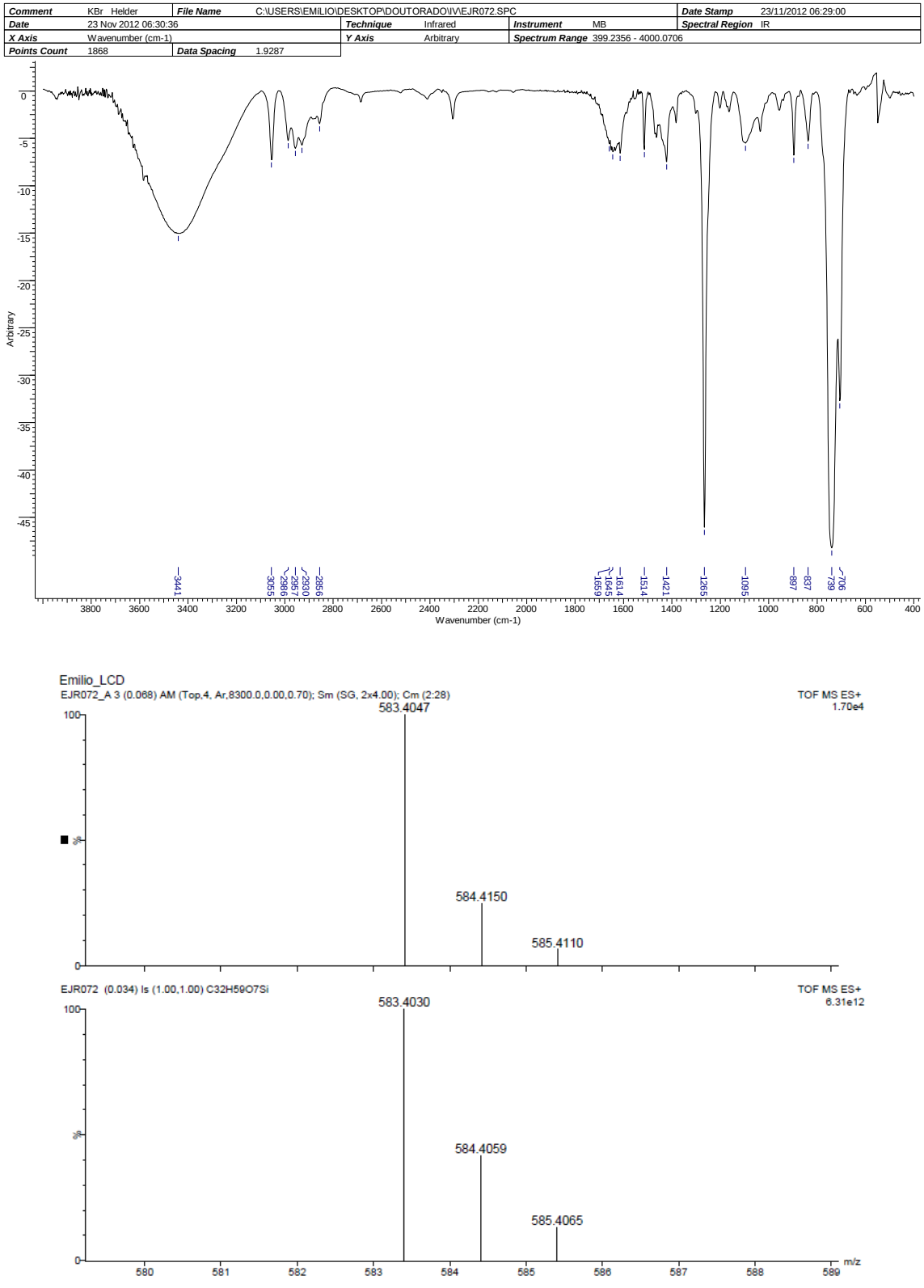


Figure S53: IR and HRMS (ESI TOF-MS) spectra of compound **39**.

Acquisition Time (sec)	2.6564	***Date***	24 Sep 2012 12:35:58				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2012\set24ejrH1_001001r					***Frequency (MHz)***	600.17
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	32768	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	12335.53
Temperature (degree C)	25.351						

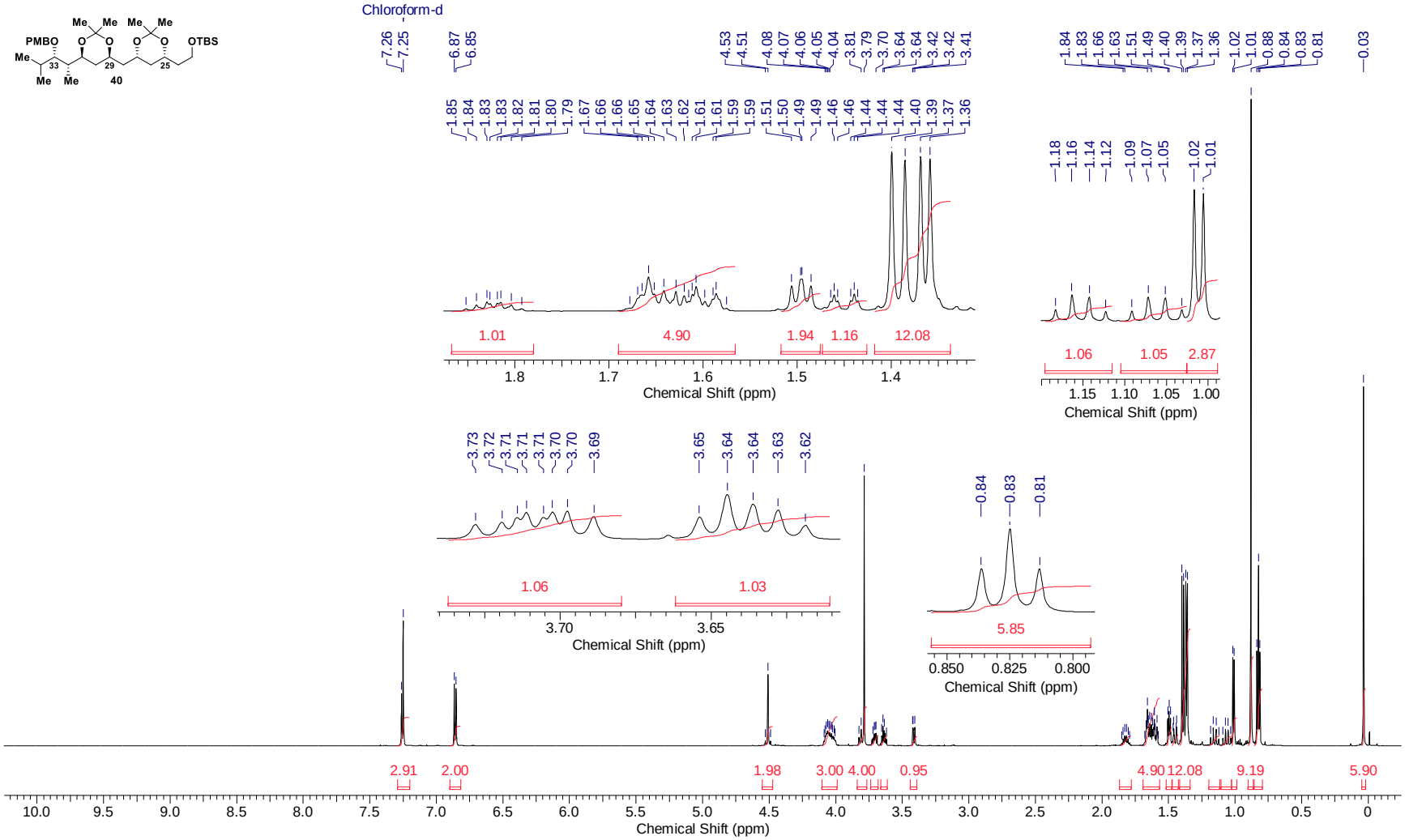


Figure S54: ^{1}H NMR spectrum of compound **40** (600 MHz; $CDCl_3$).

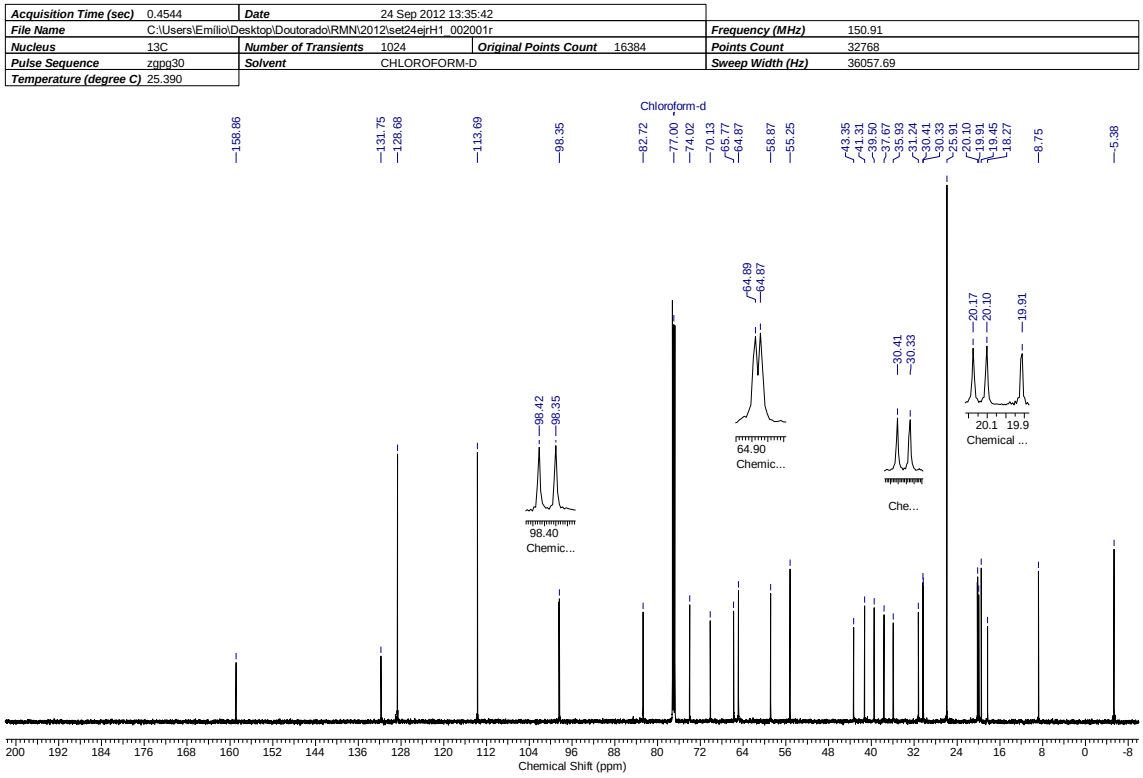


Figure S55: ^{13}C NMR spectrum of compound **40** (150 MHz; $CDCl_3$).

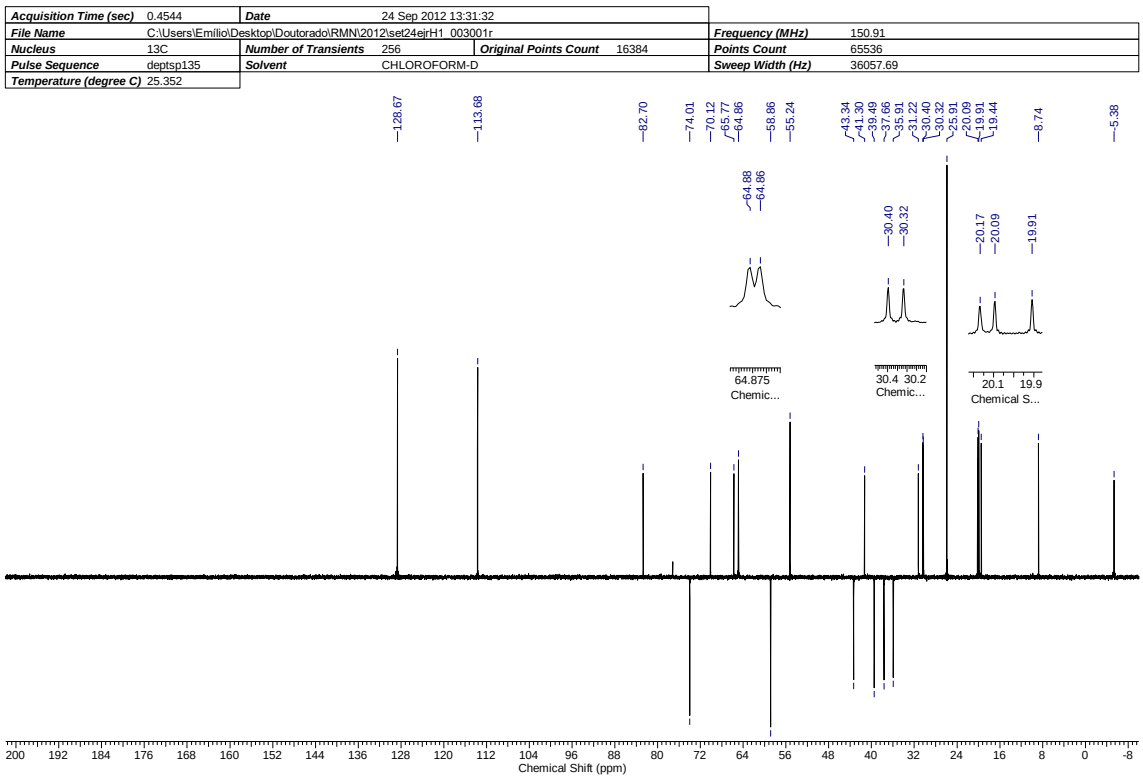


Figure S56: ^{13}C NMR (dept 135) spectrum of compound **40** (150 MHz; $CDCl_3$).

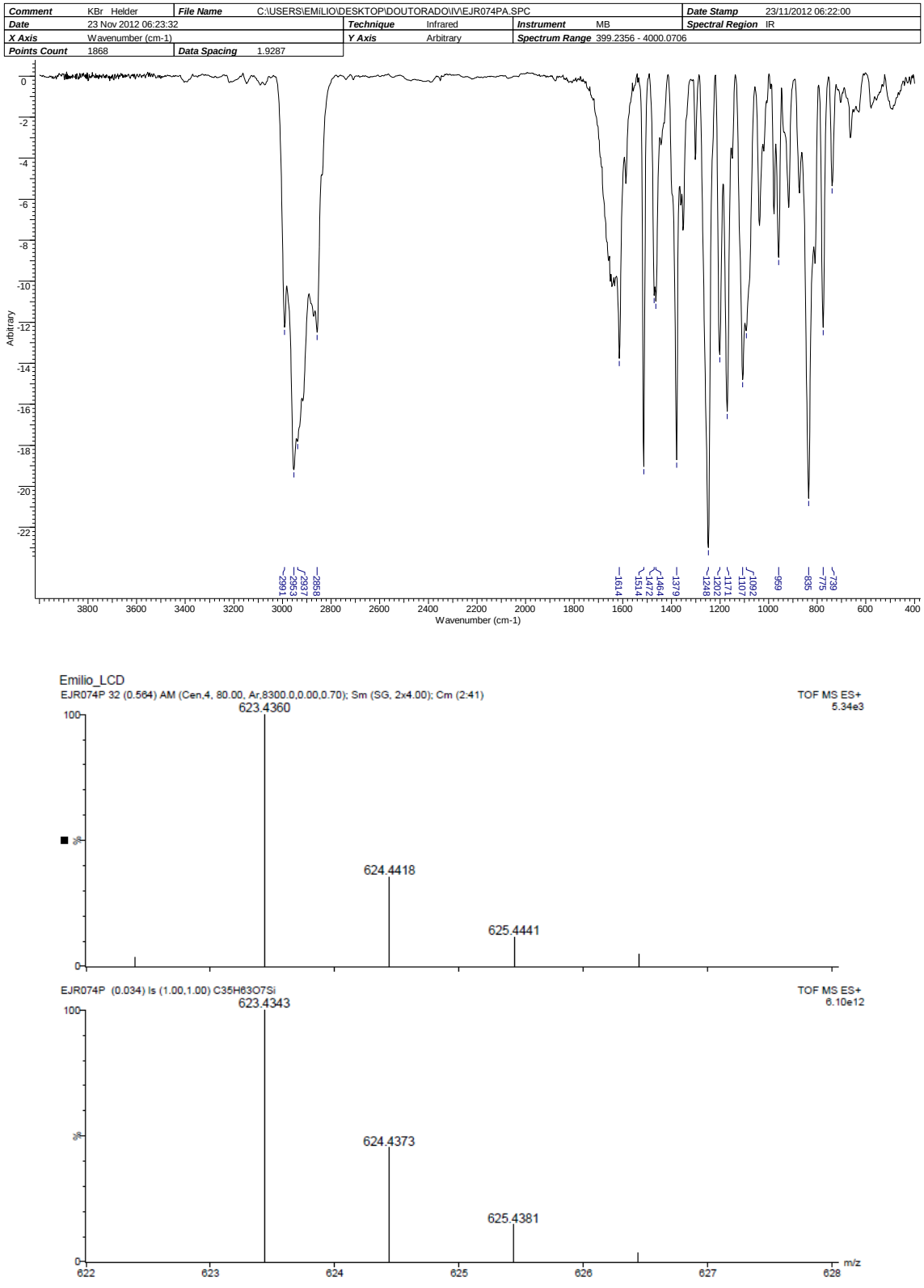


Figure S57: IR and HRMS (ESI TOF-MS) spectra of compound **40**.

Acquisition Time (sec)	1.5903	***Date***	18 Jun 2013 09:51:56				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2013\jun18ejrH1_001001r					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	10302.20
Temperature (degree C)	25.157						

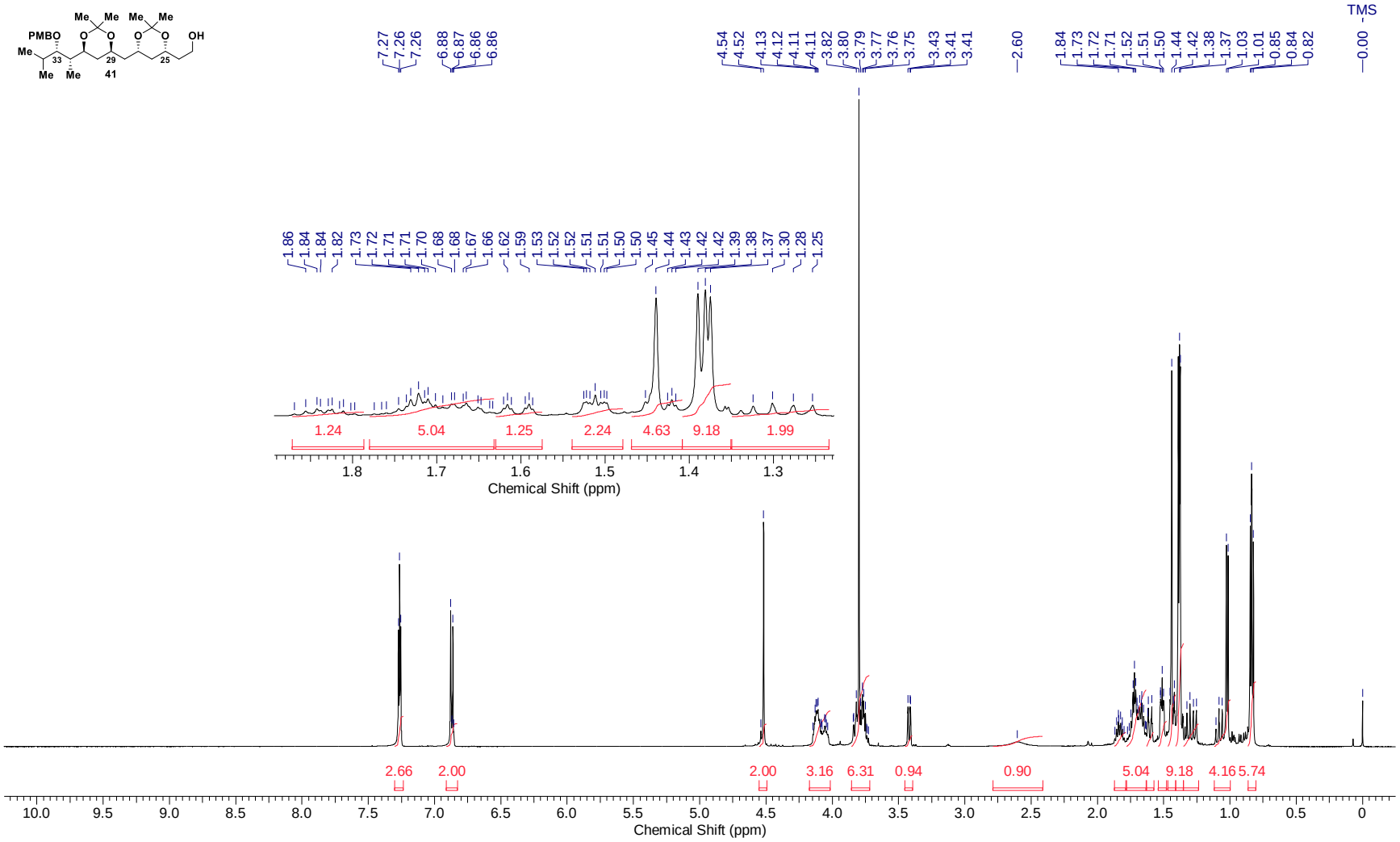


Figure S58: ^{1}H NMR spectrum of compound **41** (500 MHz; $CDCl_3$).

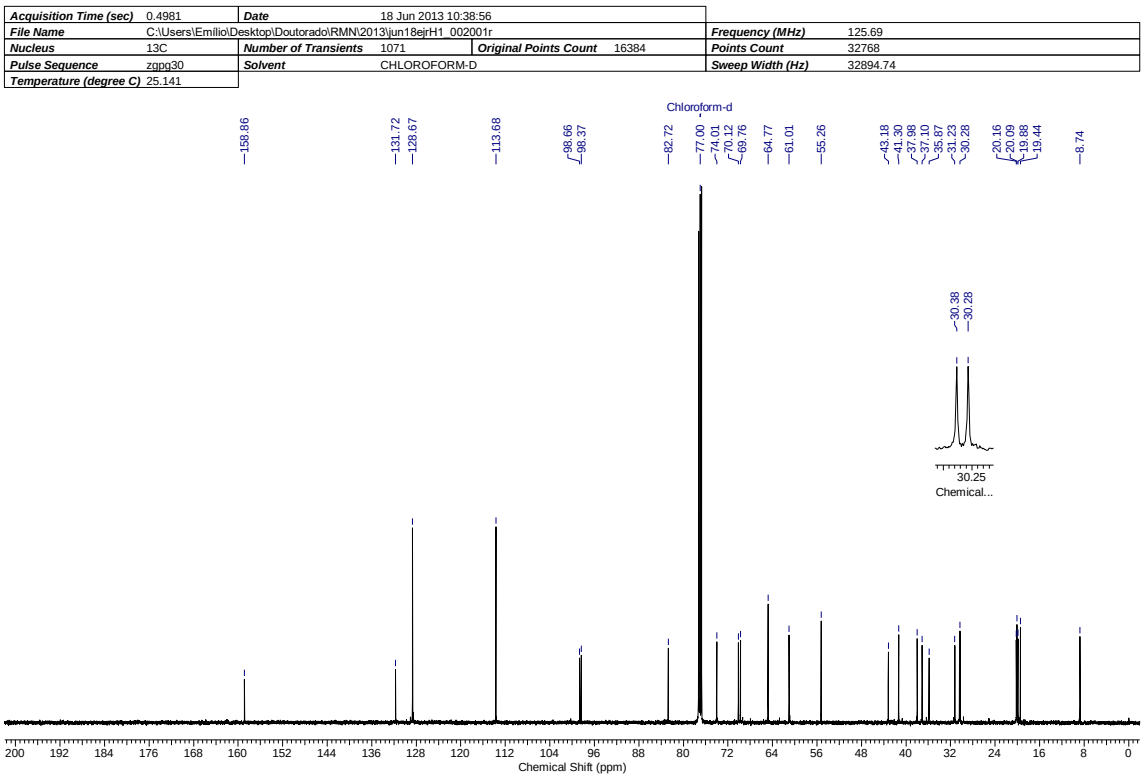


Figure S59: ^{13}C NMR spectrum of compound **41** (125 MHz; $CDCl_3$).

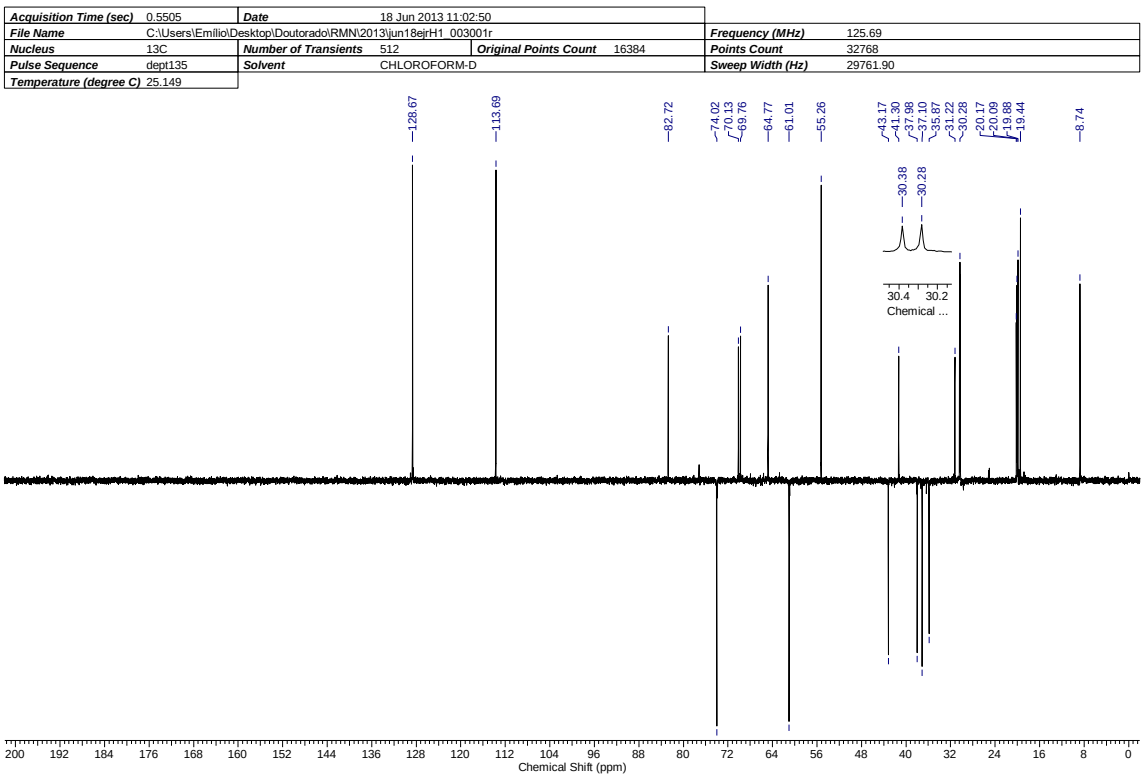


Figure S60: ^{13}C NMR (dept 135) spectrum of compound **41** (125 MHz; $CDCl_3$).

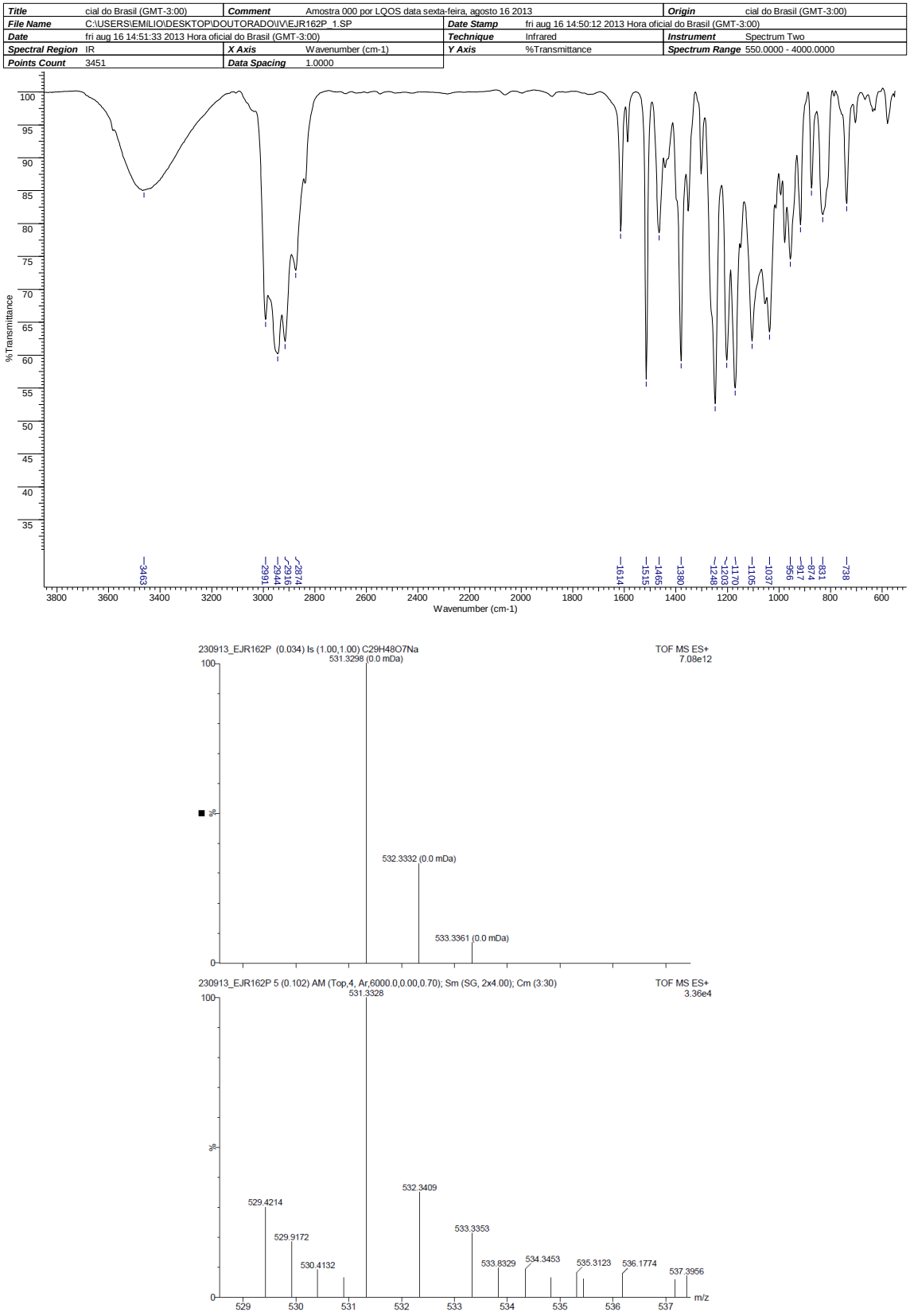


Figure S61: IR and HRMS (ESI TOF-MS) spectra of compound **41**.

Acquisition Time (sec)	1.5903	***Date***	19 Jun 2013 16:54:06				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2013\jun19ejrH1_001001r					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	10302.20
Temperature (degree C)	25.155						

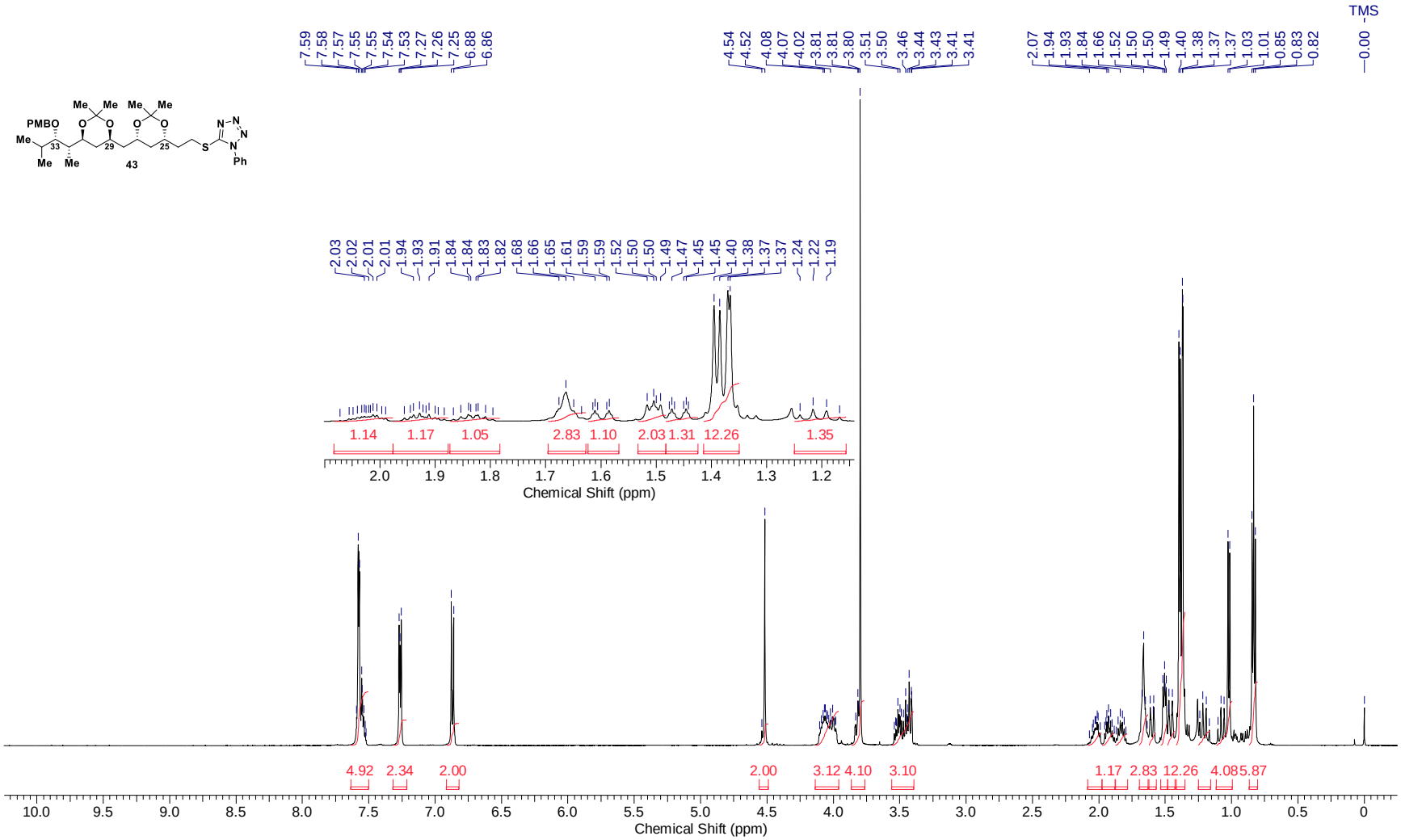


Figure S62: ^{1}H NMR spectrum of compound **43** (500 MHz; $CDCl_3$).

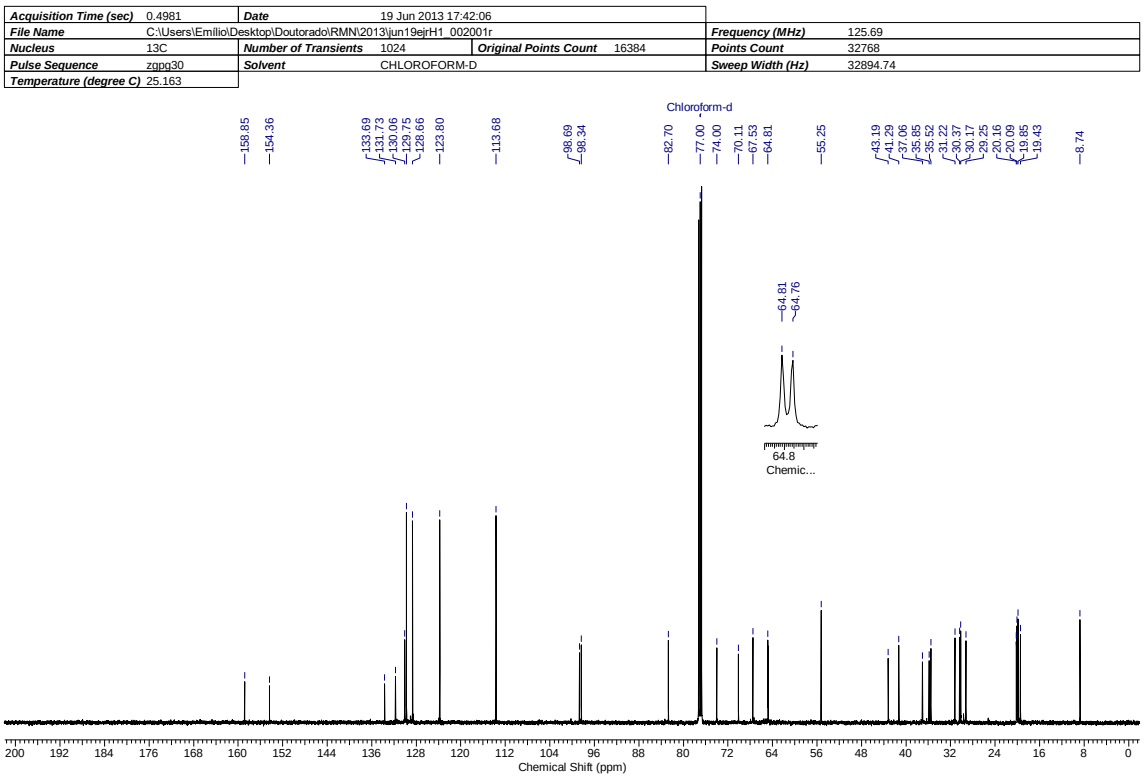


Figure S63: ^{13}C NMR spectrum of compound **43** (125 MHz; $CDCl_3$).

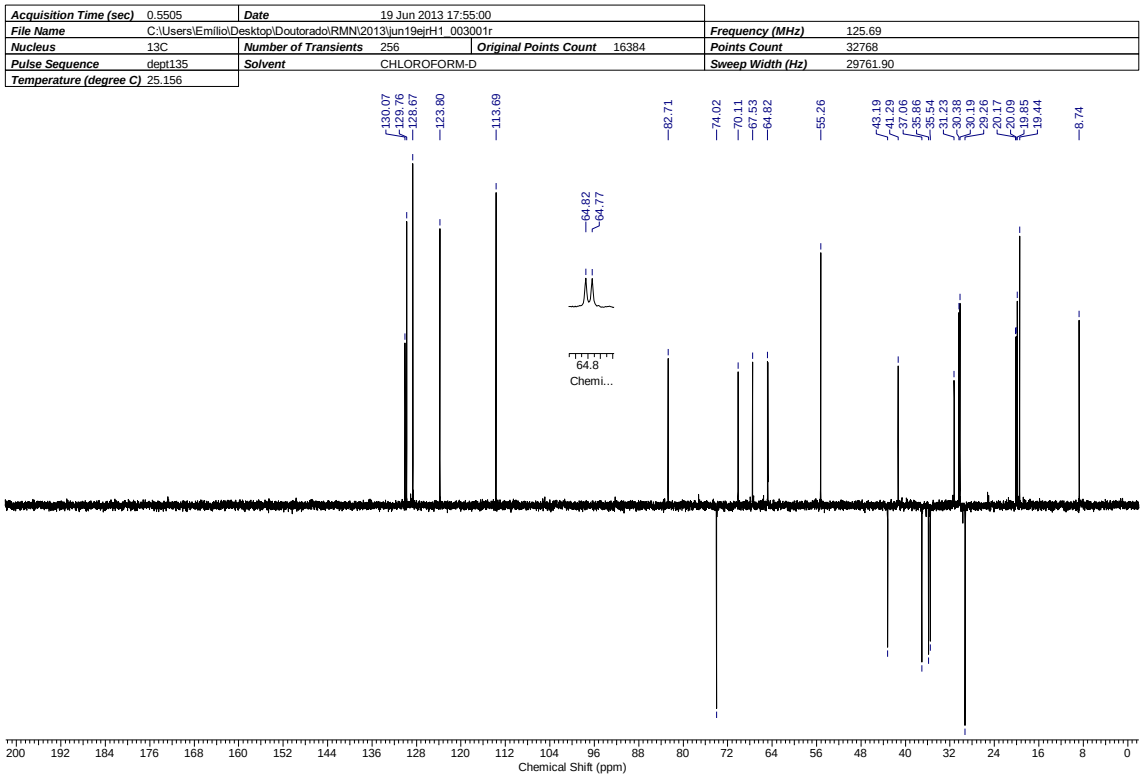


Figure S64: ^{13}C NMR (dept 135) spectrum of compound **43** (125 MHz; $CDCl_3$).

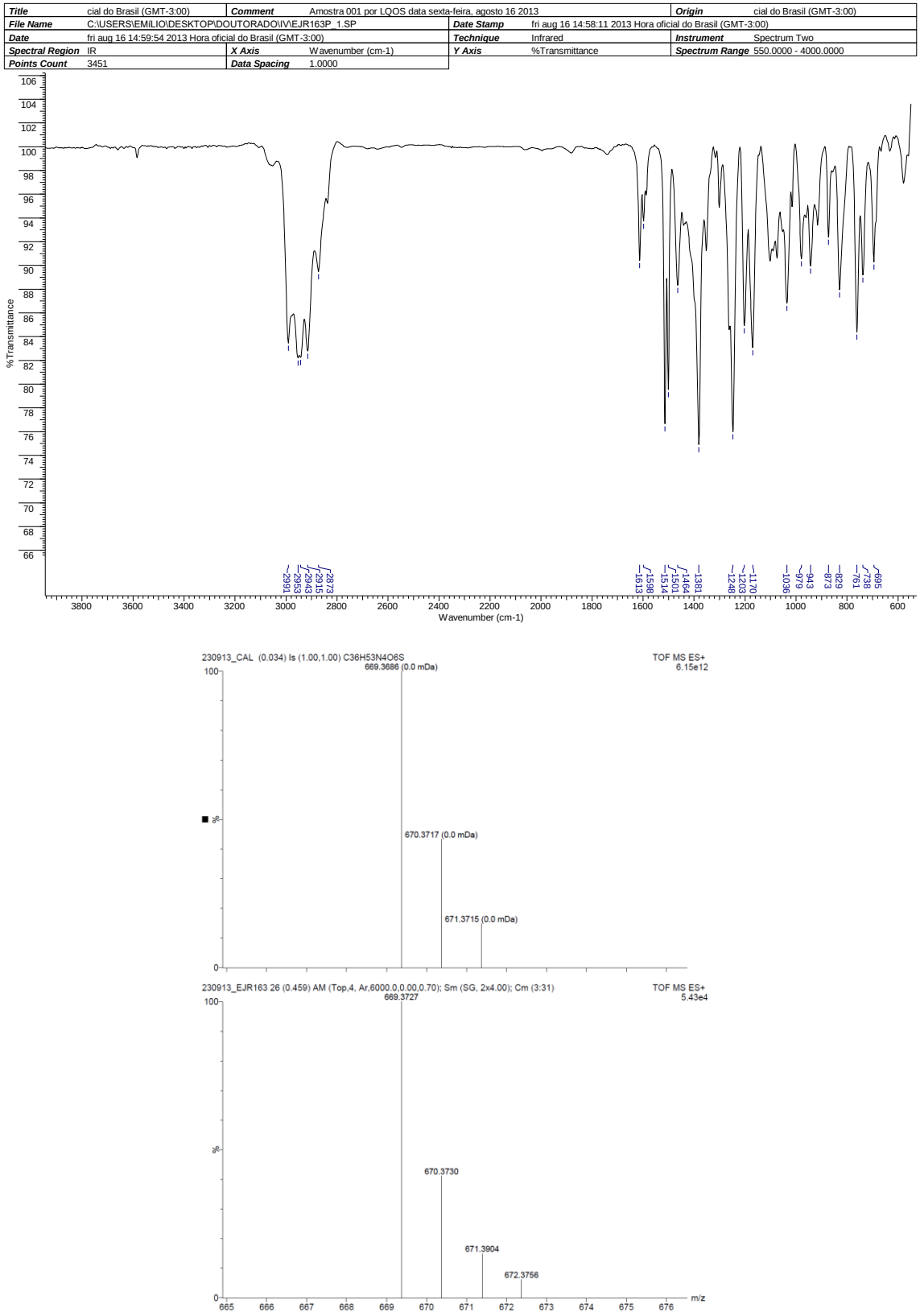


Figure S65: IR and HRMS (ESI TOF-MS) spectra of compound **43**.

Acquisition Time (sec)	2.6564	***Date***	05 Sep 2013 12:08:50				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2013\set05ejrH1_001001r					***Frequency (MHz)***	600.17
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	32768	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	12335.53
Temperature (degree C)	25.147						

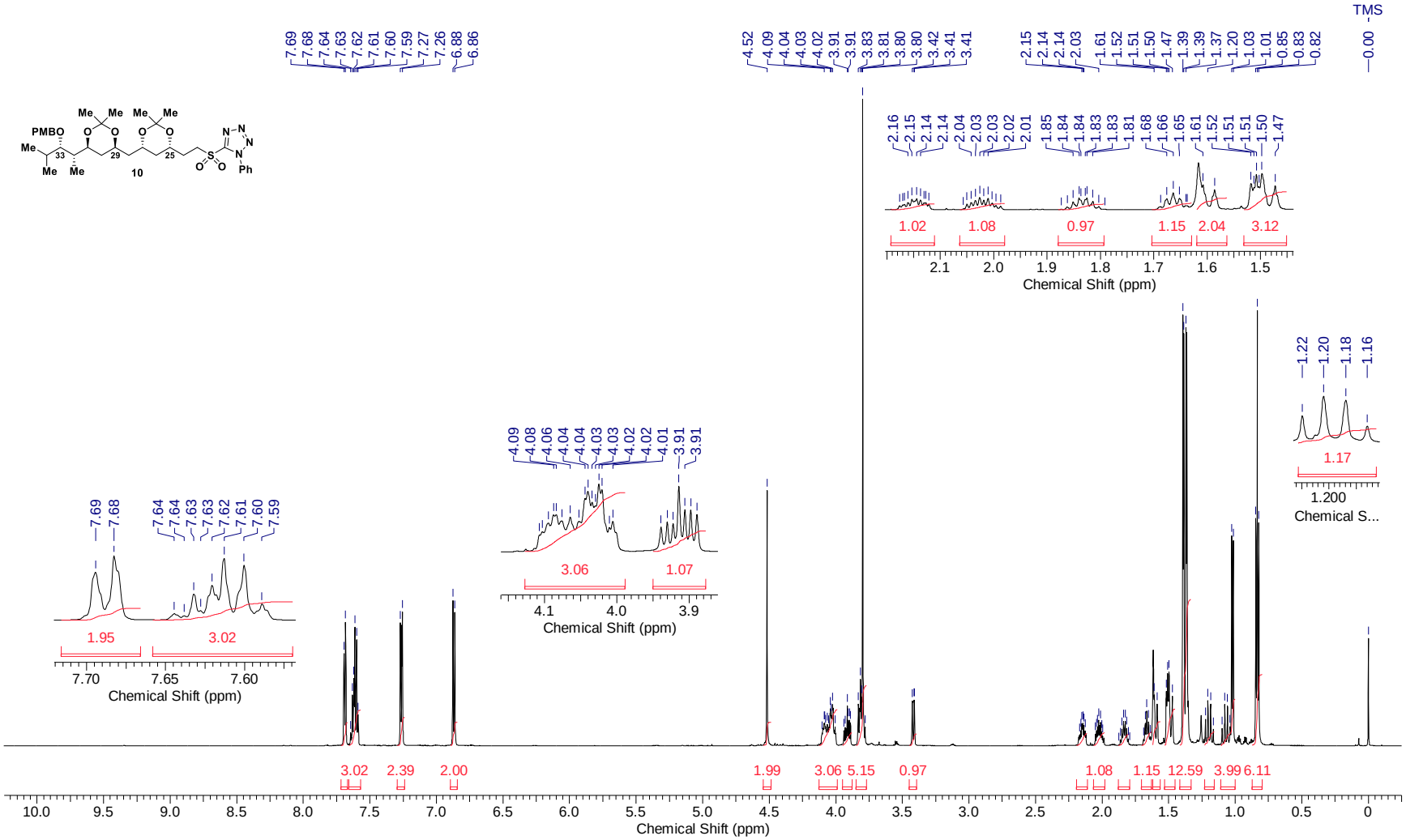


Figure S66: ^{1}H NMR spectrum of compound **10** (600 MHz; $CDCl_3$).

Acquisition Time (sec)	0.4544	**Date**	05 Sep 2013 12:08:58		
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2013\set05ejrH1_002001r			**Frequency (MHz)**	150.91
Nucleus	13C	**Number of Transients**	1600	**Original Points Count** 16384	**Points Count** 131072
Pulse Sequence	zgpg30	**Solvent**	CHLOROFORM-D		**Sweep Width (Hz)** 36057.69
Temperature (degree C)	25.151				

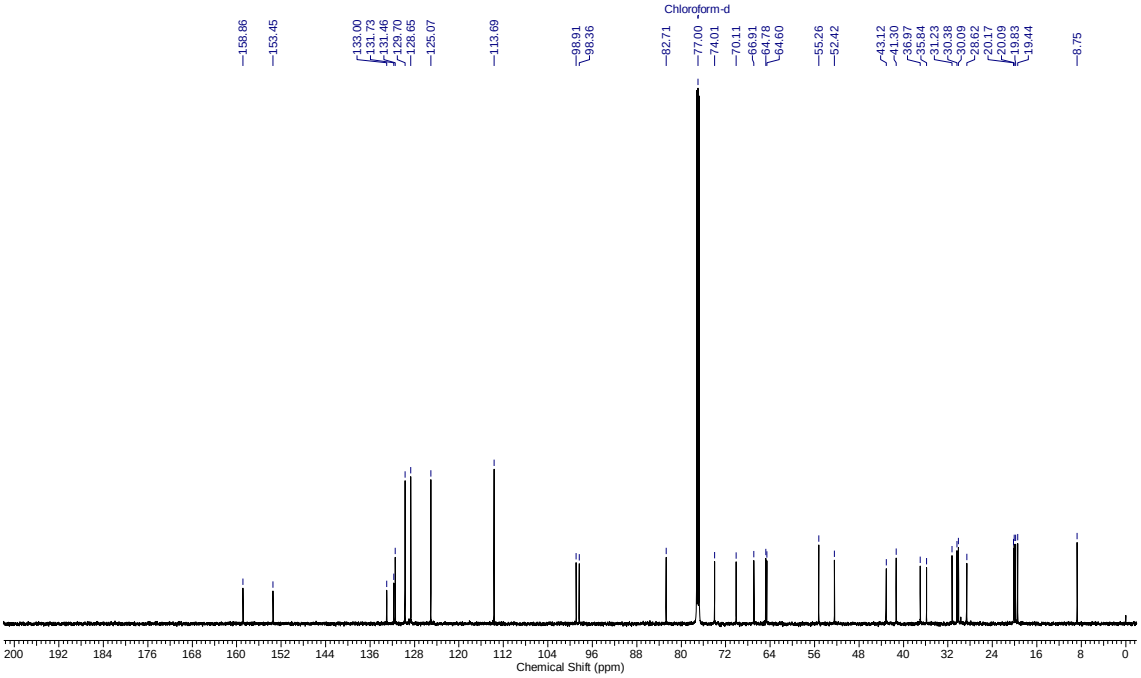


Figure S67: ^{13}C NMR spectrum of compound **10** (150 MHz; $CDCl_3$).

Acquisition Time (sec)	0.4544	**Date**	05 Sep 2013 12:09:04		
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2013\set05ejrH1_003001r			**Frequency (MHz)**	150.91
Nucleus	13C	**Number of Transients**	640	**Original Points Count** 16384	**Points Count** 65536
Pulse Sequence	deptsp135	**Solvent**	CHLOROFORM-D		**Sweep Width (Hz)** 36057.69
Temperature (degree C)	25.152				

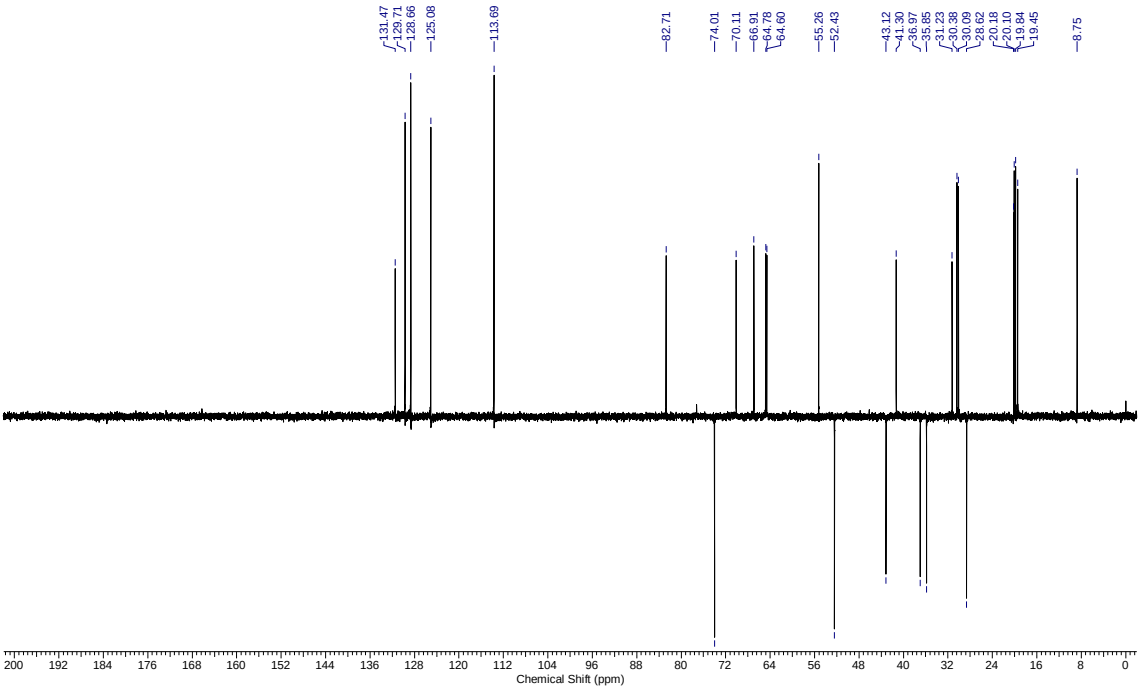
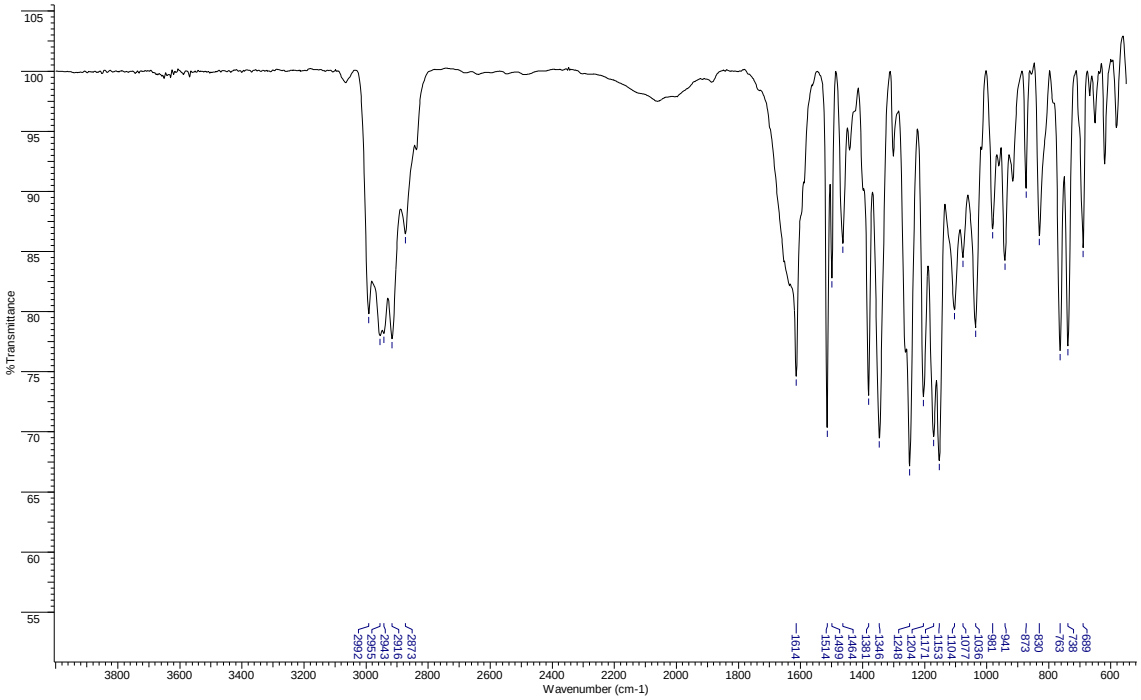


Figure S68: ^{13}C NMR (dept 135) spectrum of compound **10** (150 MHz; $CDCl_3$).

Title	cial do Brasil (GMT-3:00)	***Origin***	cial do Brasil (GMT-3:00)	***File Name***	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IV\EJR164P_1.SP		
Date Stamp	fri sep 06 12:56:15 2013 Hora oficial do Brasil (GMT-3:00)			***Date***	fri sep 06 12:59:12 2013 Hora oficial do Brasil (GMT-3:00)		
Technique	Infrared	***Instrument***	Spectrum Two	***Spectral Region***	IR	***X Axis***	Wavenumber (cm-1)
Y Axis	%Transmittance	***Spectrum Range***	550.0000 - 4000.0000	***Points Count***	3451	***Data Spacing***	1.0000



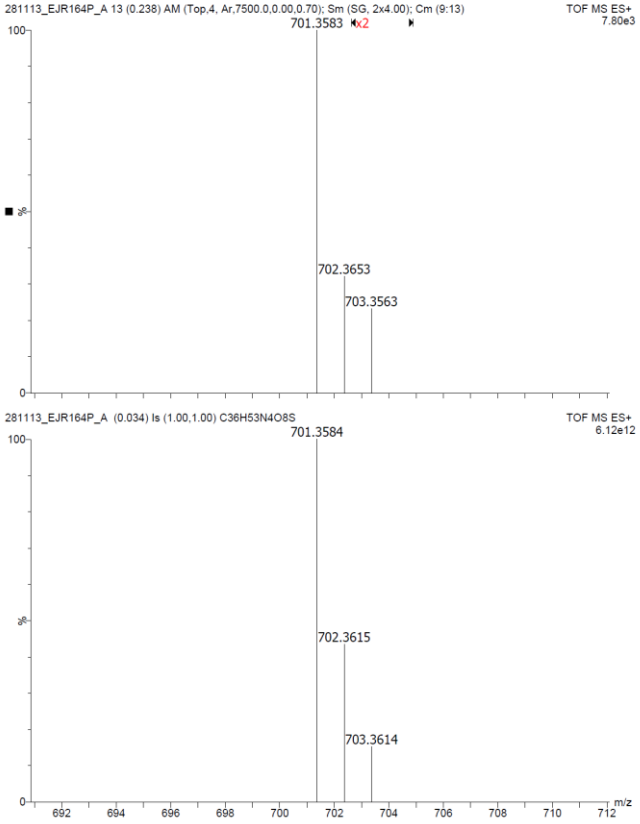


Figure S69: IR and HRMS (ESI TOF-MS) spectra of compound **10**.

Copies of ^{1}H and ^{13}C NMR, IR, and HRMS spectra for fragment C10−C22:

Acquisition Time (sec)	1.5903	***Date***	23 Oct 2012 11:11:34				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2012\out23ejrH1_003001r					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	BENZENE-D6	***Sweep Width (Hz)***	10302.20	***Temperature (degree C)***	25.145

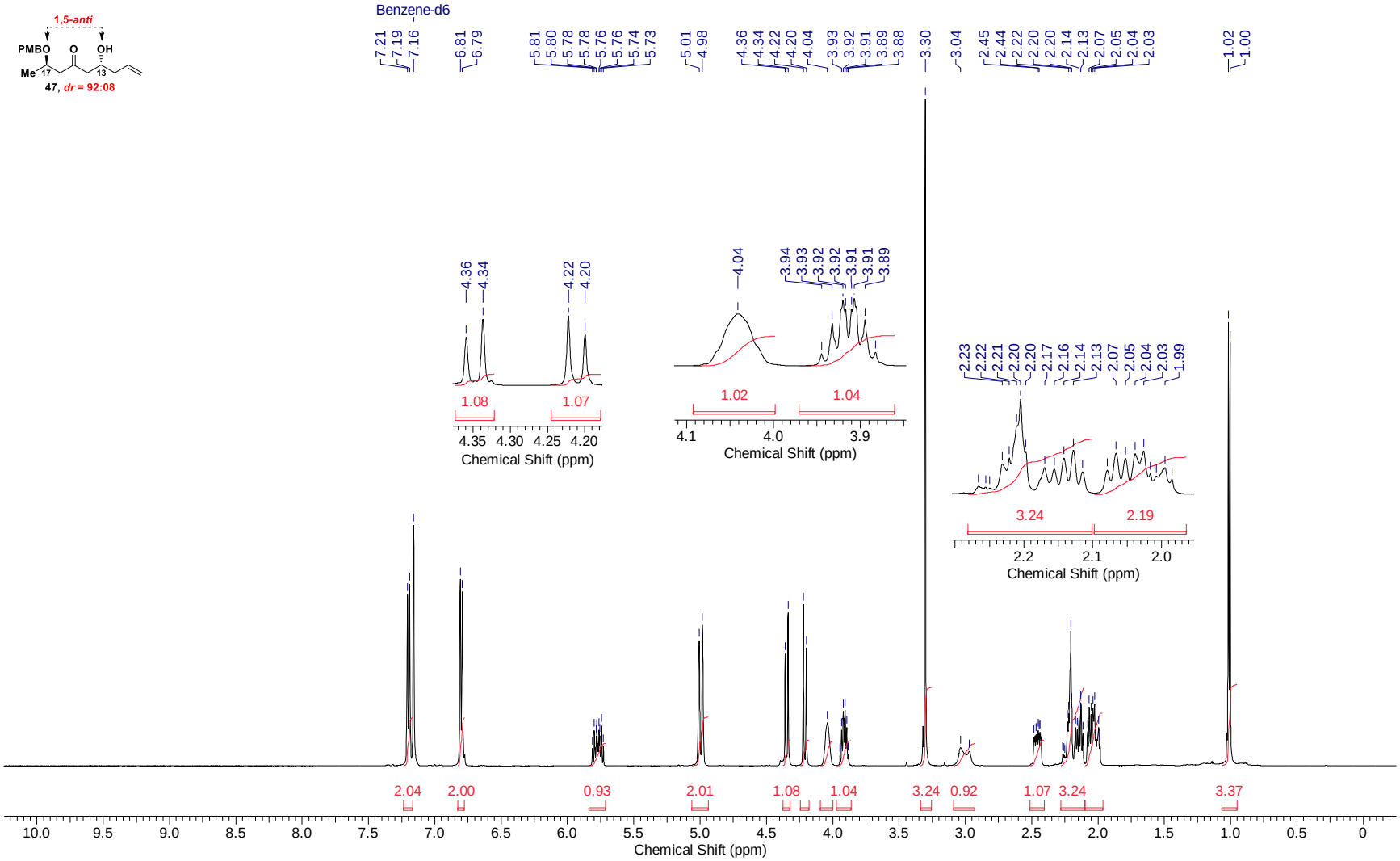


Figure S70: ^{1}H NMR spectrum of compound **47** (500 MHz; C_6D_6).

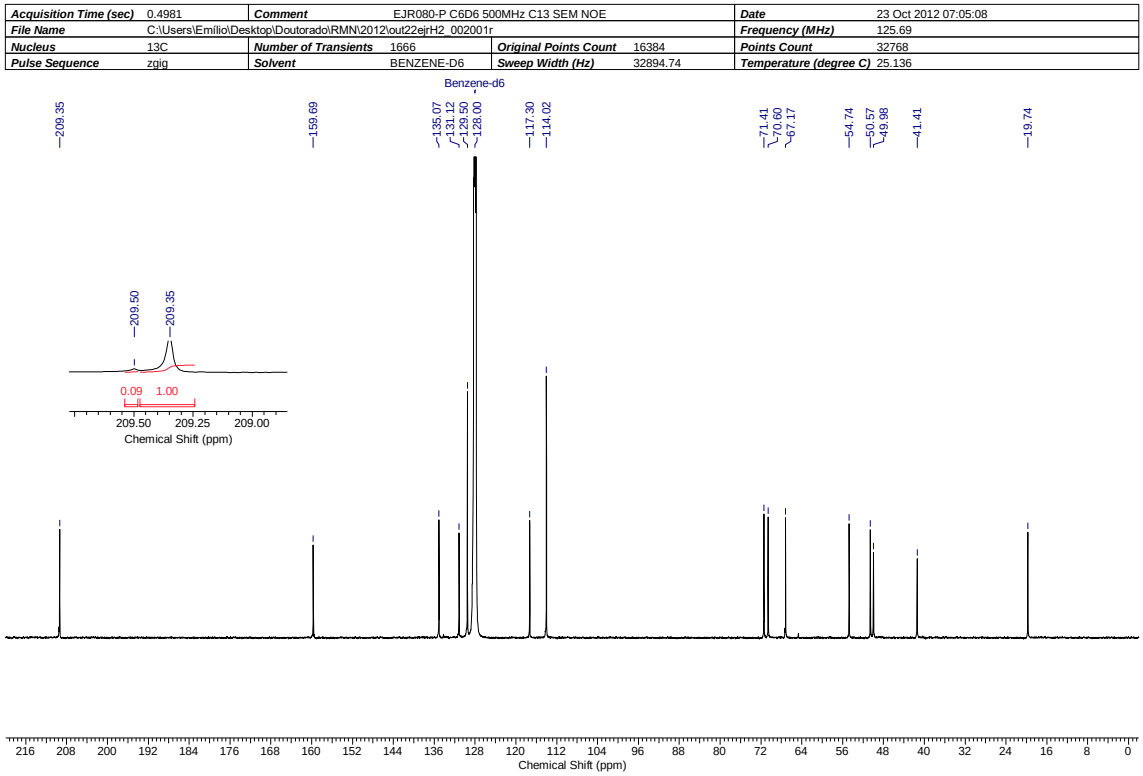


Figure S71: ^{13}C NMR spectrum of compound **47** (125 MHz; C_6D_6).

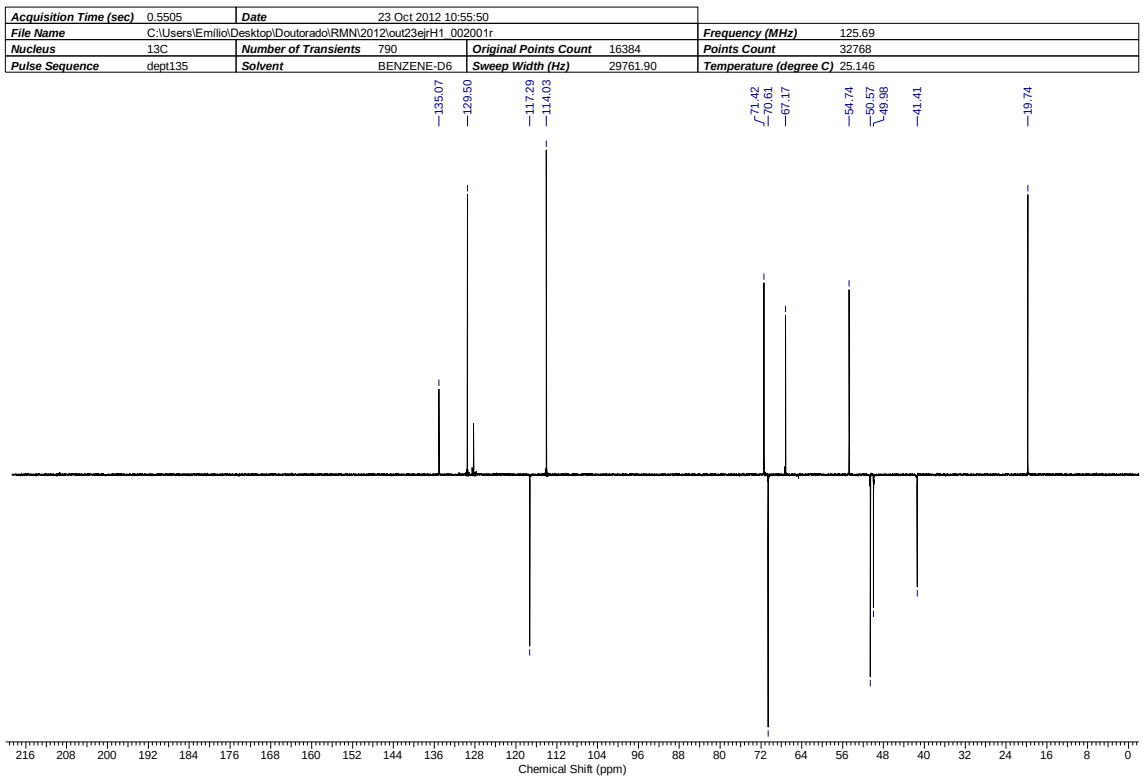
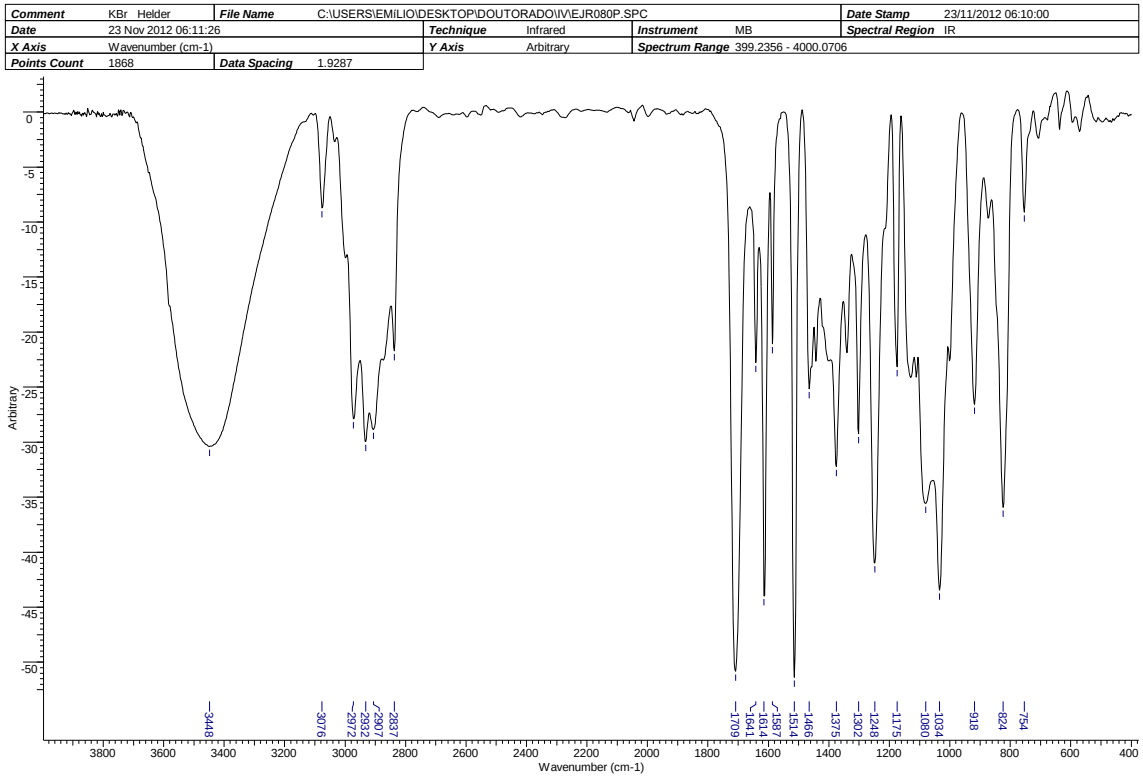


Figure S72: ^{13}C NMR (dept 135) spectrum of compound **47** (125 MHz; C_6D_6).



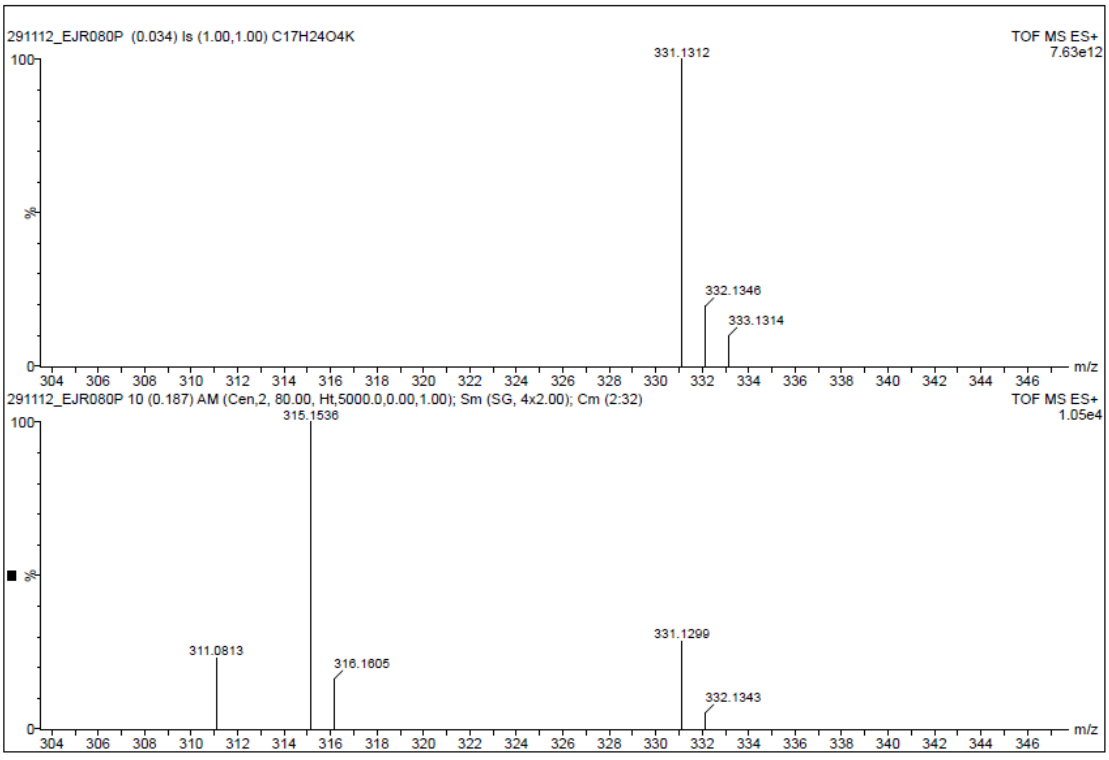


Figure S73: IR and HRMS (ESI TOF-MS) spectra of compound **47**.

Acquisition Time (sec)	1.5903	***Date***	26 Oct 2012 08:45:40				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2012\out26ejrH1_001001r					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	10302.20
Temperature (degree C)	25.161						

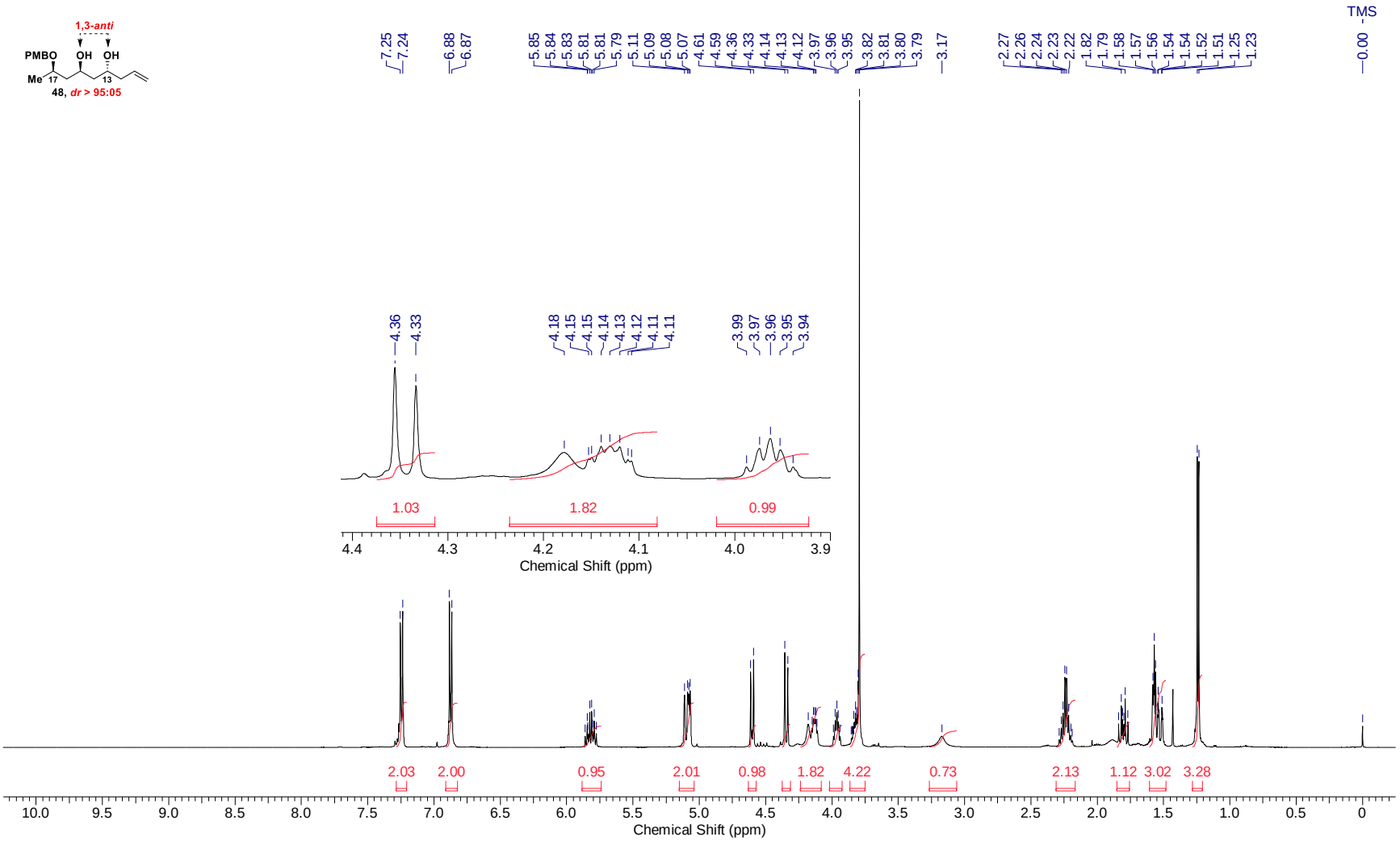


Figure S74: ^{1}H NMR spectrum of compound **48** (500 MHz; $CDCl_3$).

Acquisition Time (sec)	0.5439	**Comment**	Emilio EJR-081 CDCl3 250 MHz out25ejrC1 13C	**Date**	26 Oct 2012 11:54:24
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2012\out25ejrC1_002001r		**Frequency (MHz)** 62.90	**Nucleus**	13C
Number of Transients	13296	**Original Points Count**	8192	**Points Count**	32768	**Pulse Sequence**	zgpg30
Solvent	CHLOROFORM-D	**Sweep Width (Hz)**	15060.24	**Temperature (degree C)**	25.160		

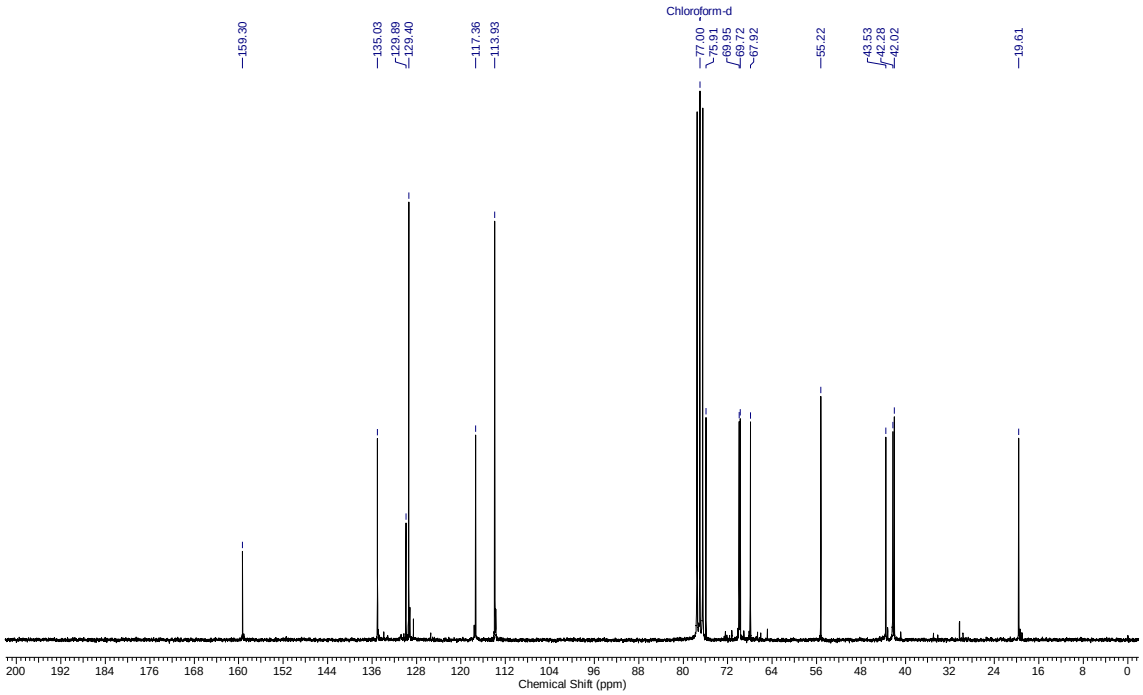


Figure S75: ^{13}C NMR spectrum of compound **48** (62.5 MHz; $CDCl_3$).

Acquisition Time (sec)	0.5439	**Comment**	Emilio EJR-081 CDCl3 250 MHz out25ejrC1 C13DEPT135	**Date**	25 Oct 2012 22:30:24
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2012\out25ejrC1\out25ejrC1_001000fid			**Frequency (MHz)**	62.90
Nucleus	13C	**Number of Transients**	2048	**Original Points Count**	8192	**Points Count**	8192
Pulse Sequence	dept135	**Solvent**	CHLOROFORM-D	**Sweep Width (Hz)**	15060.24	**Temperature (degree C)**	25.160

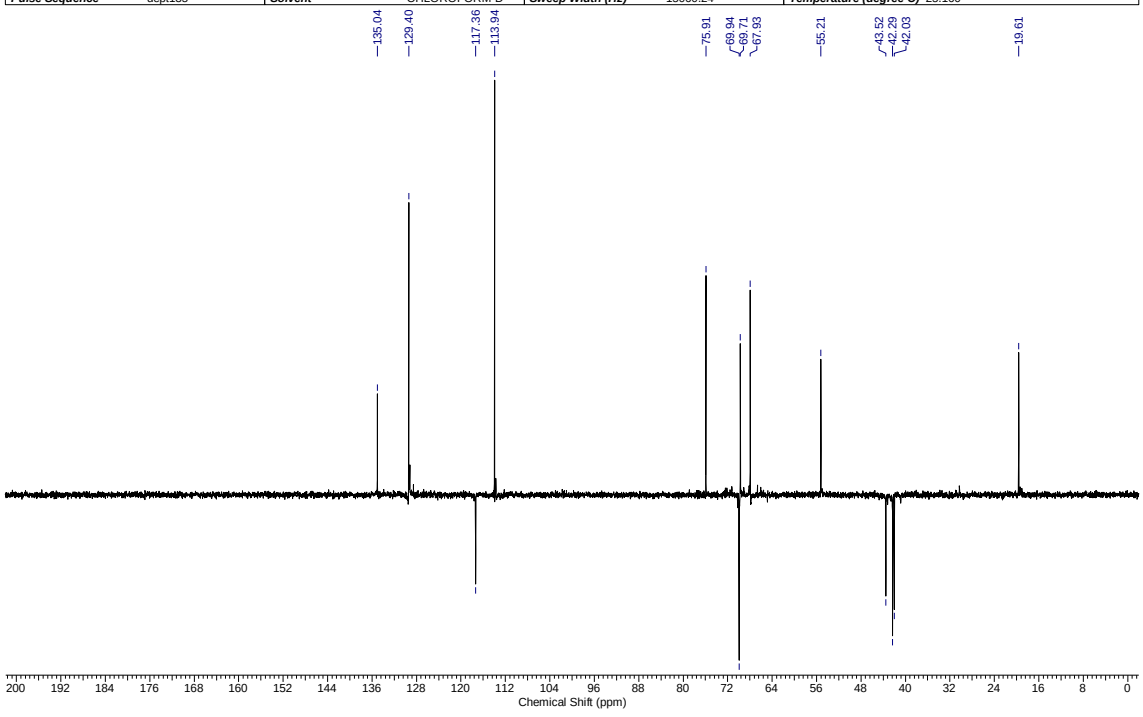


Figure S76: ^{13}C NMR (dept 135) spectrum of compound **48** (62.5 MHz; $CDCl_3$).

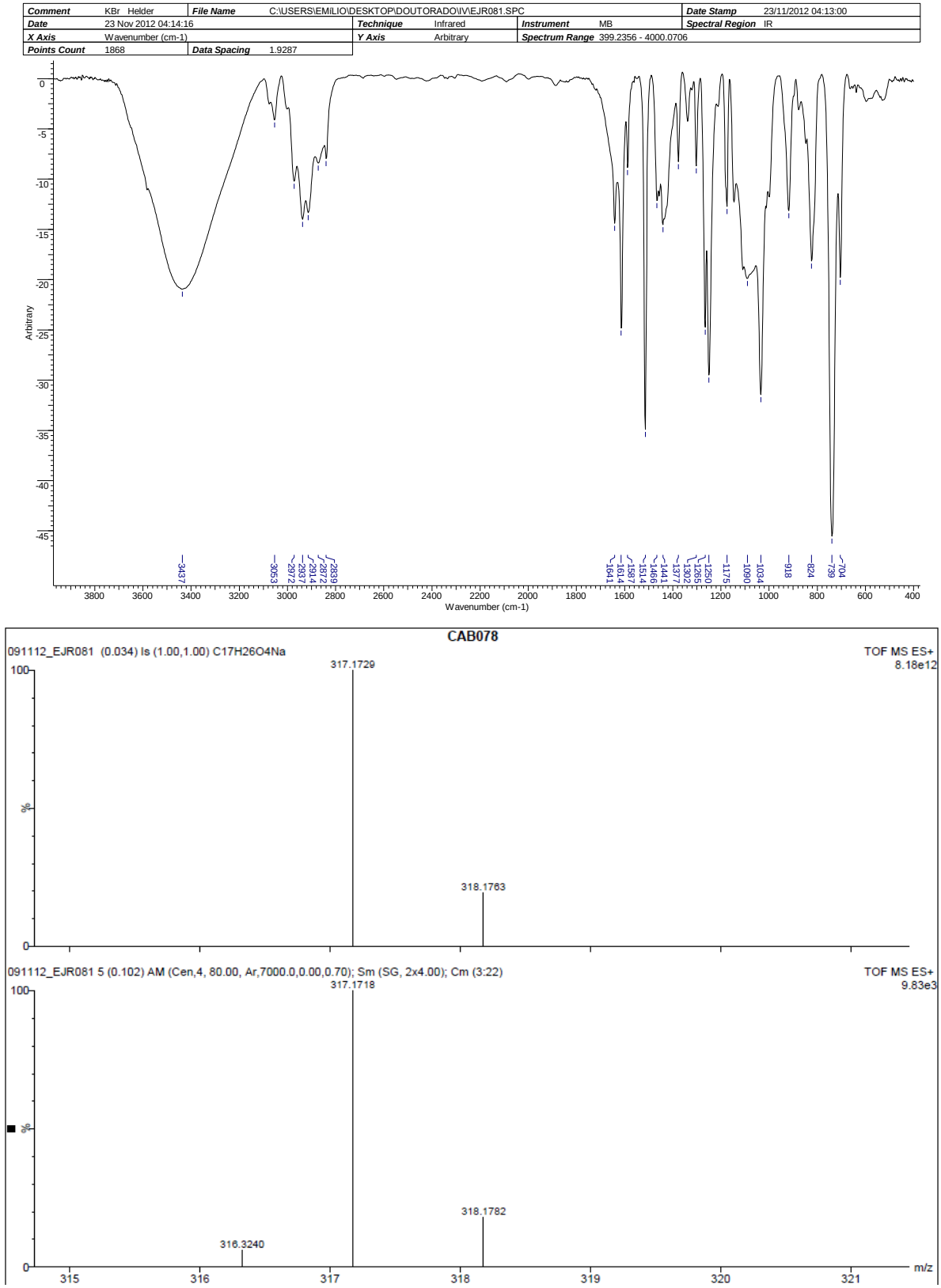


Figure S77: IR and HRMS (ESI TOF-MS) spectra of compound **48**.

Acquisition Time (sec)	1.5903	***Date***	26 Oct 2012 13:26:02				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2012\out26ejrH2_001001r					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	10302.20
Temperature (degree C)	25.139						

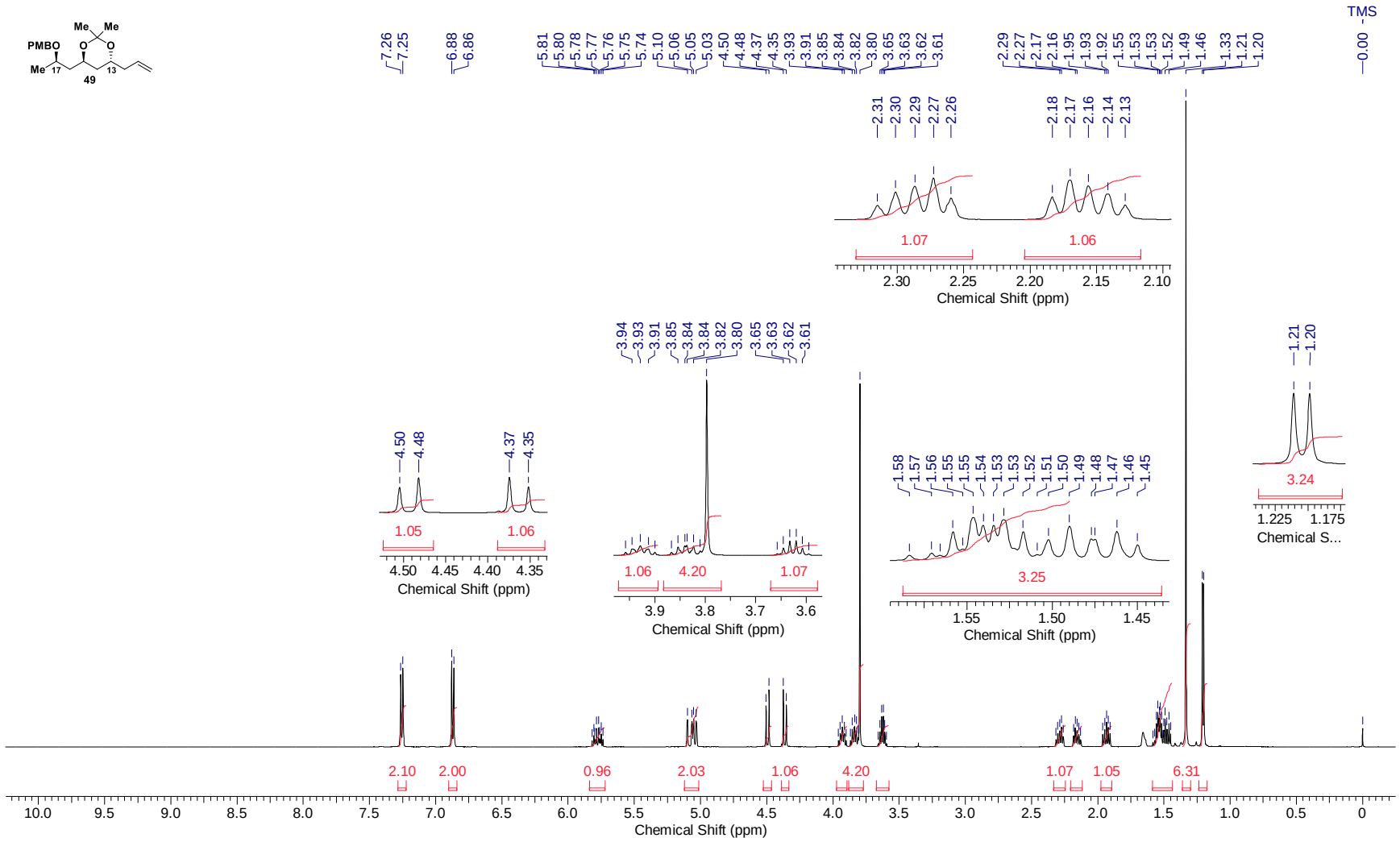


Figure S78: ^{1}H NMR spectrum of compound **49** (500 MHz; $CDCl_3$).

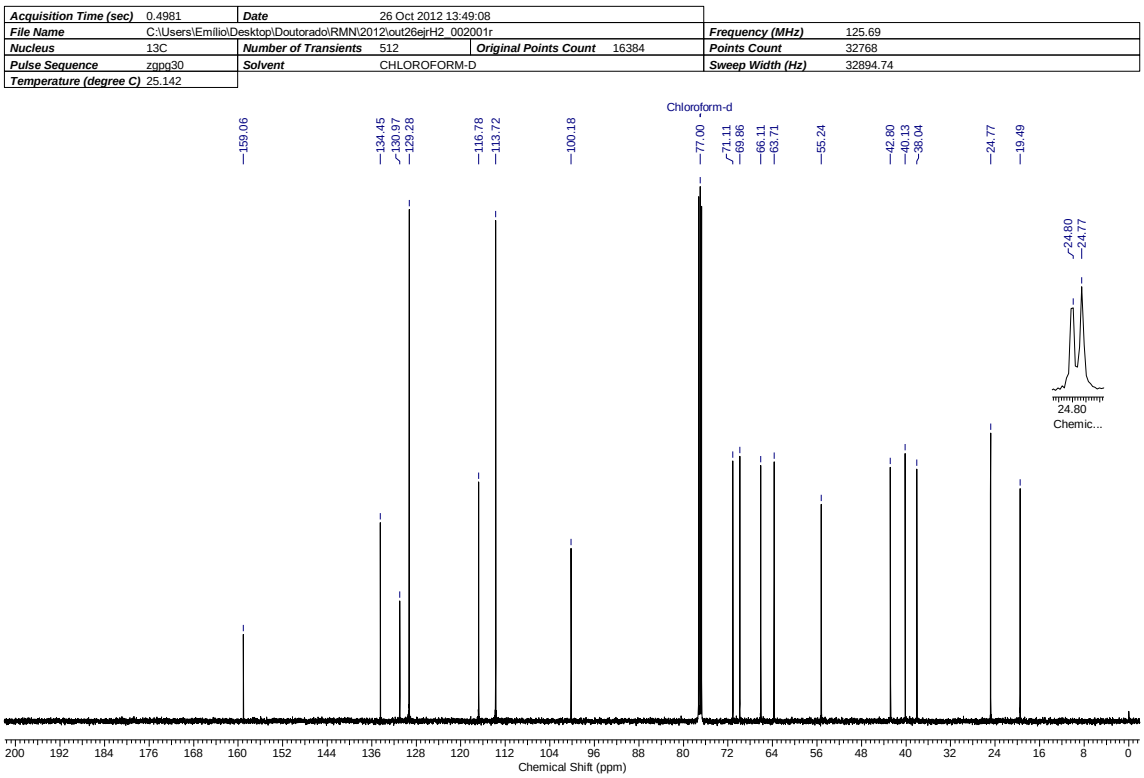


Figure S79: ^{13}C NMR spectrum of compound **49** (125 MHz; $CDCl_3$).

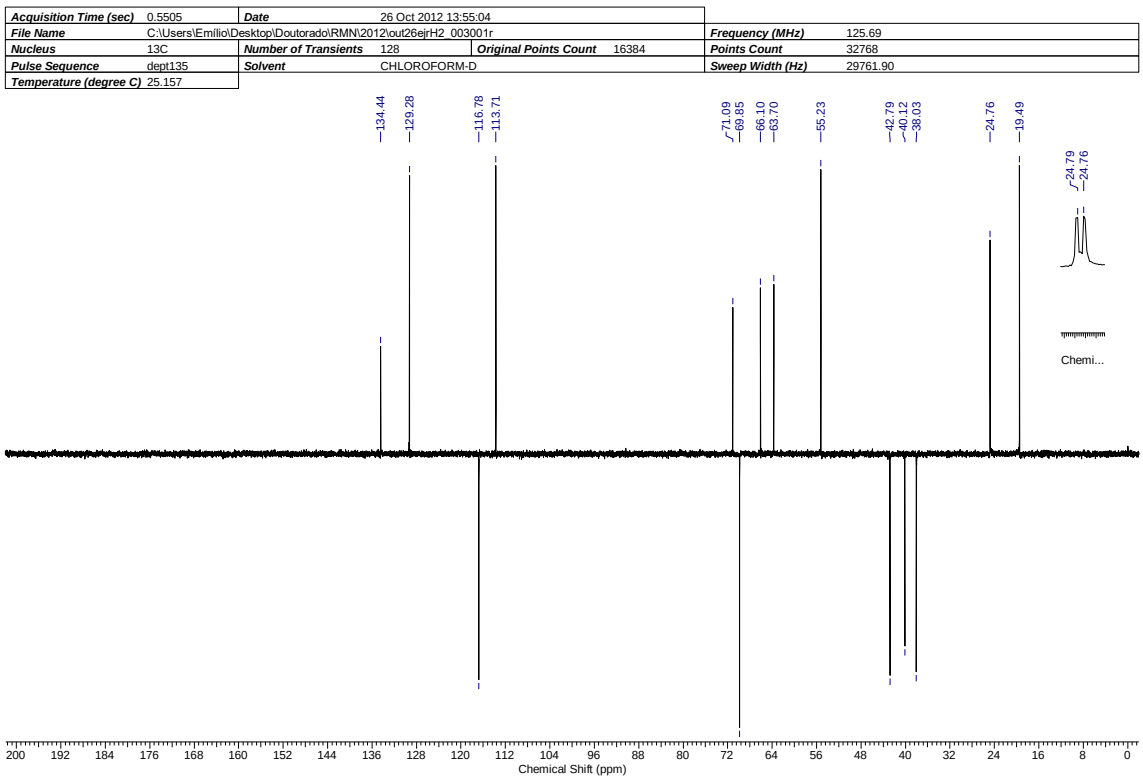


Figure S80: ^{13}C NMR (dept 135) spectrum of compound **49** (125 MHz; $CDCl_3$).

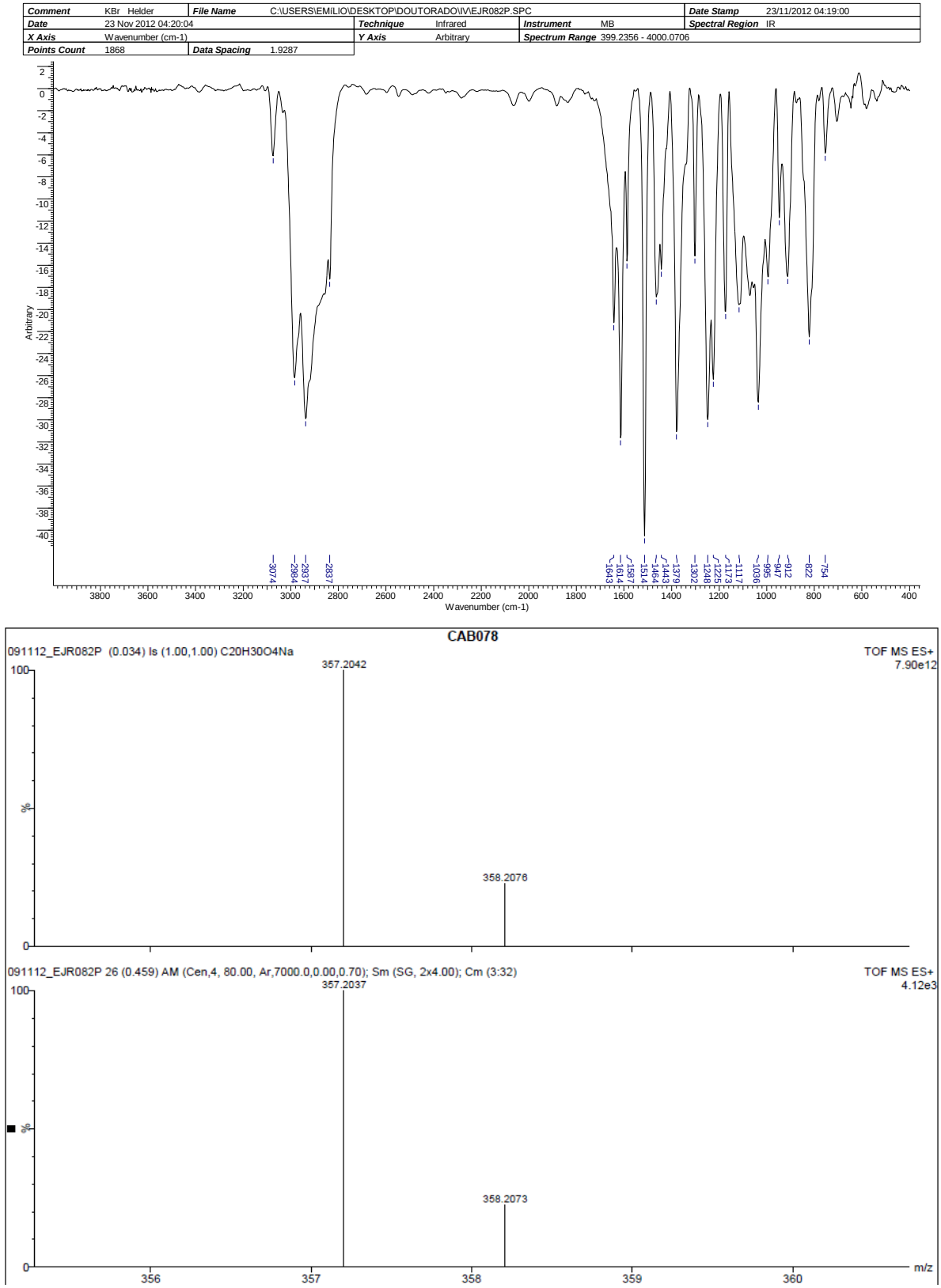


Figure S81: IR and HRMS (ESI TOF-MS) spectra of compound **49**.

Acquisition Time (sec)	1.6384	***Comment***	Emílio - EJR 083P - CDCl3 - Avance 500 MHz - out31ejrH1 - 1H			***Date***	31 Oct 2012 10:26:08
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2012\out31ejrH1_001001r			***Frequency (MHz)***	499.87	***Nucleus***	1H
Number of Transients	16	***Original Points Count***	16384	***Points Count***	65536	***Pulse Sequence***	zg30
Solvent	CHLOROFORM-D	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	25.143		

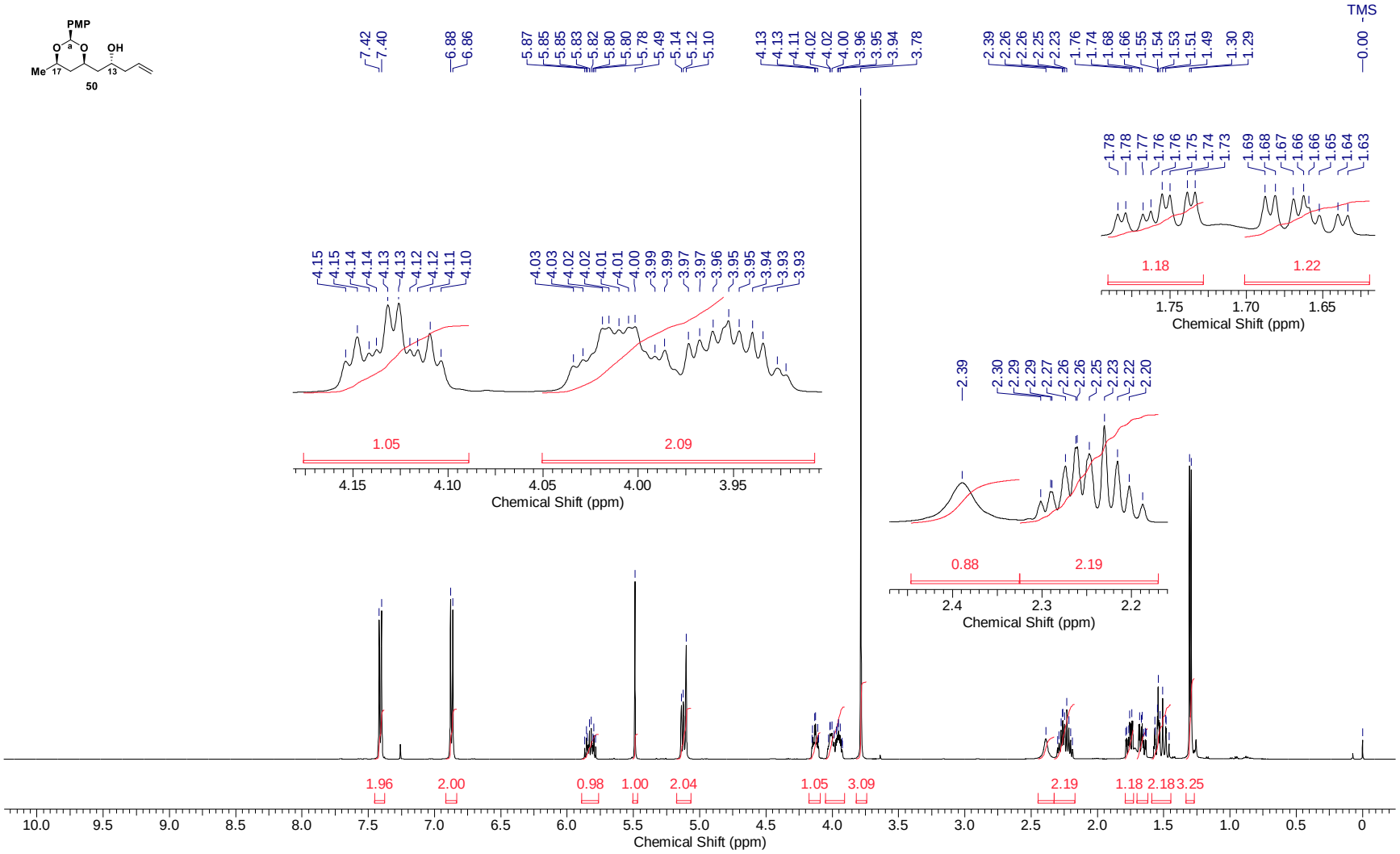


Figure S82: ^{1}H NMR spectrum of compound **50** (500 MHz; $CDCl_3$).

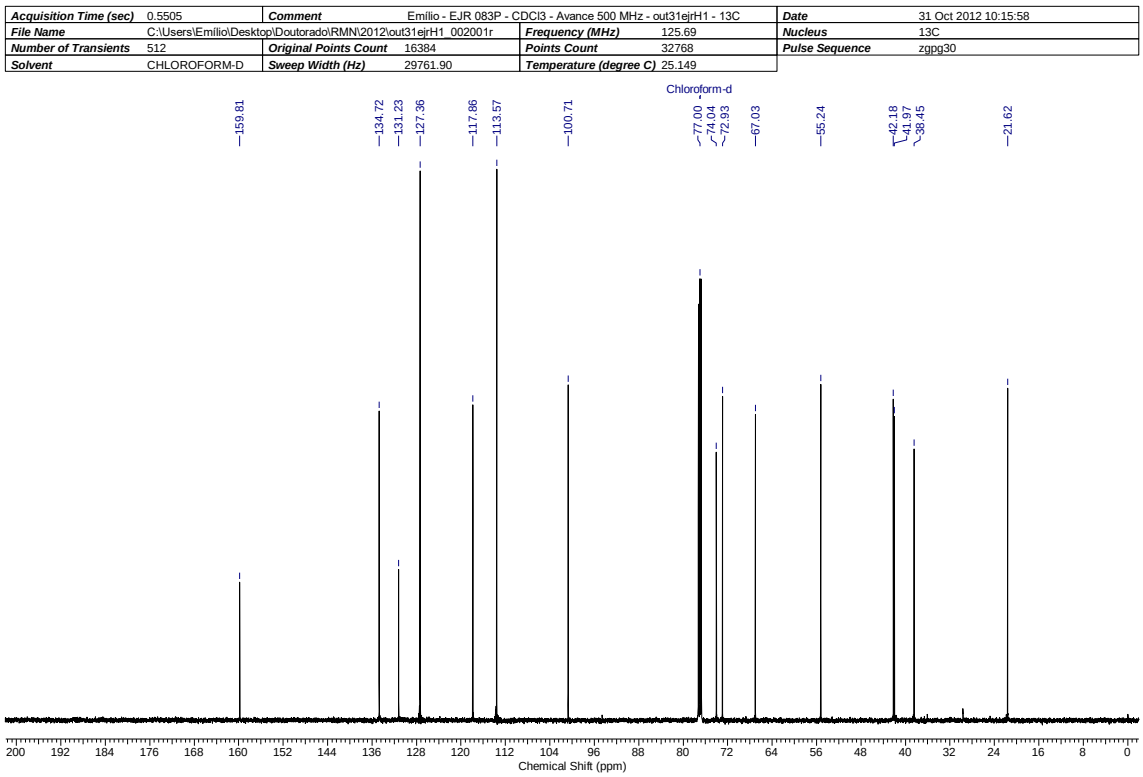


Figure S83: ^{13}C NMR spectrum of compound **50** (125 MHz; $CDCl_3$).

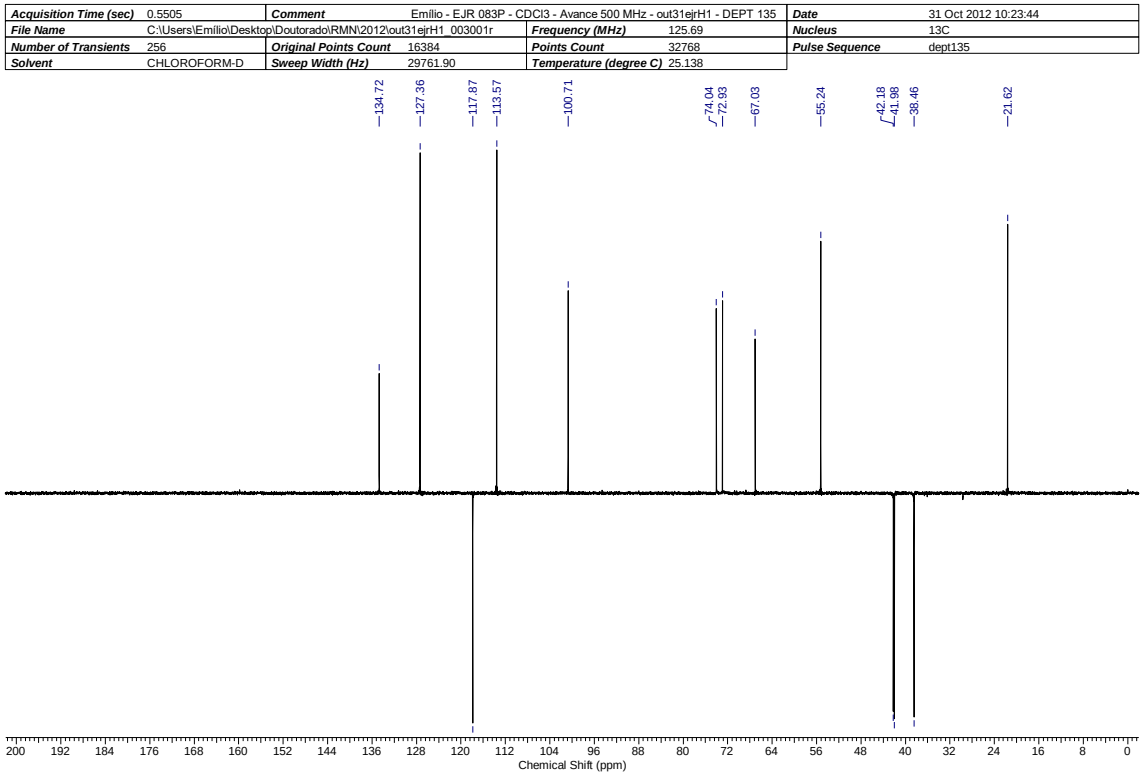


Figure S84: ^{13}C NMR (dept 135) spectrum of compound **50** (125 MHz; $CDCl_3$).

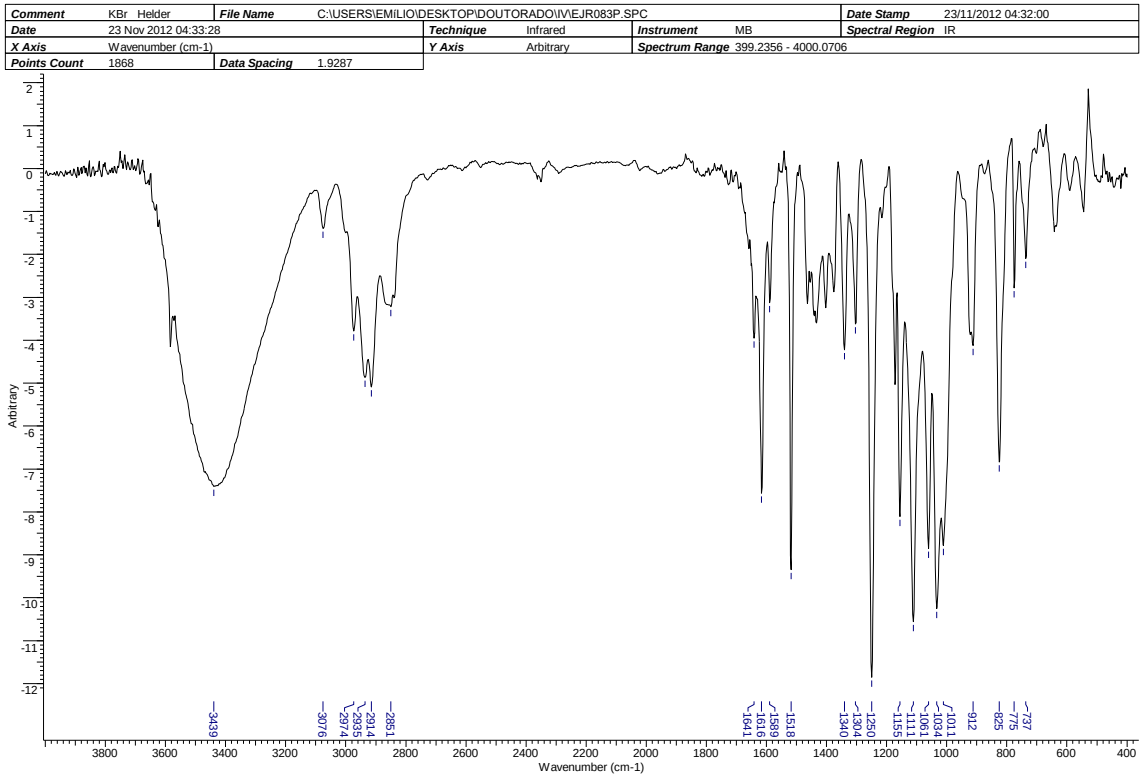


Figure S85: IR spectrum of compound **50**.

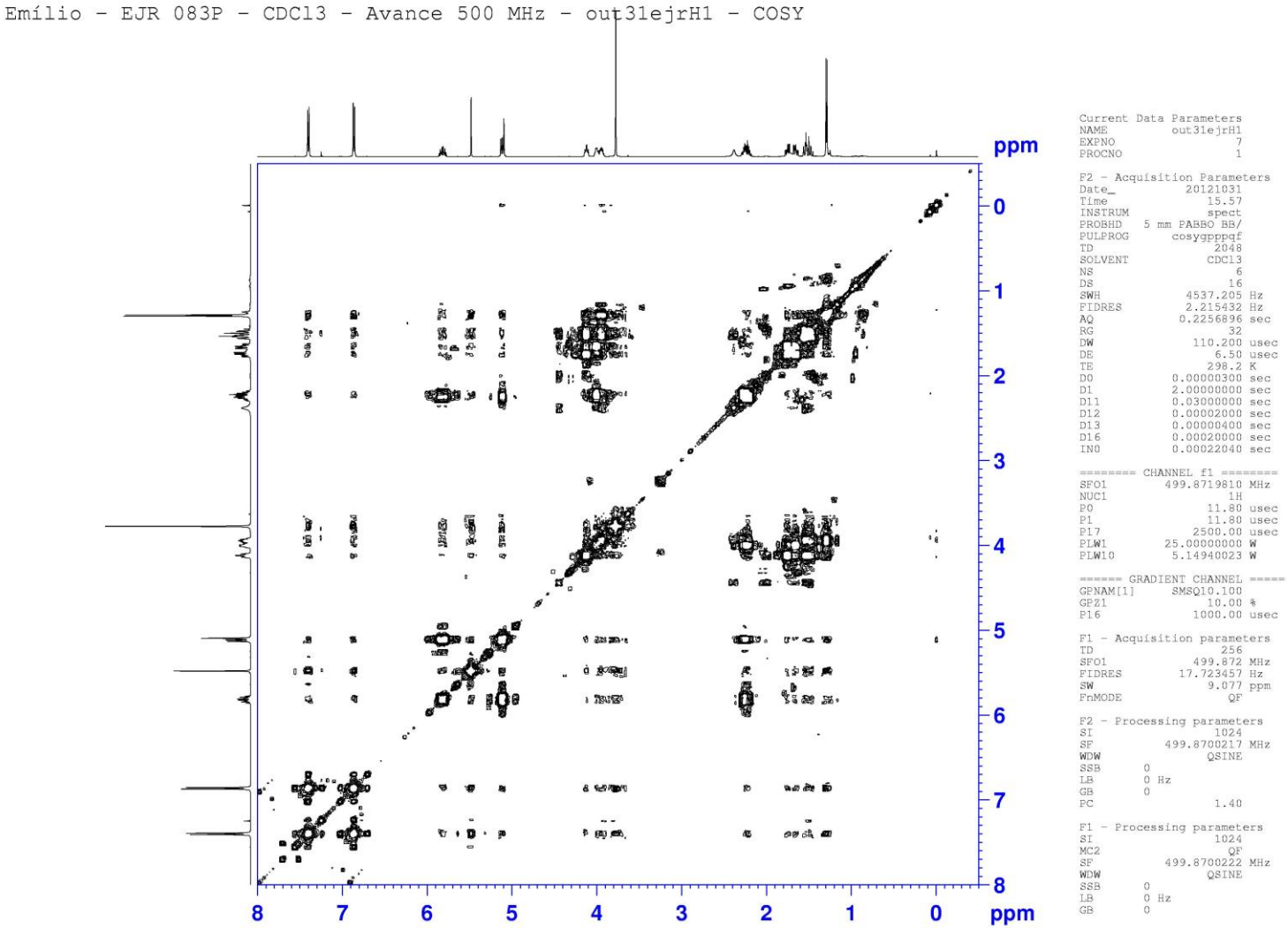


Figure S86: COSY contour map of compound **50** (500 MHz; $CDCl_3$).

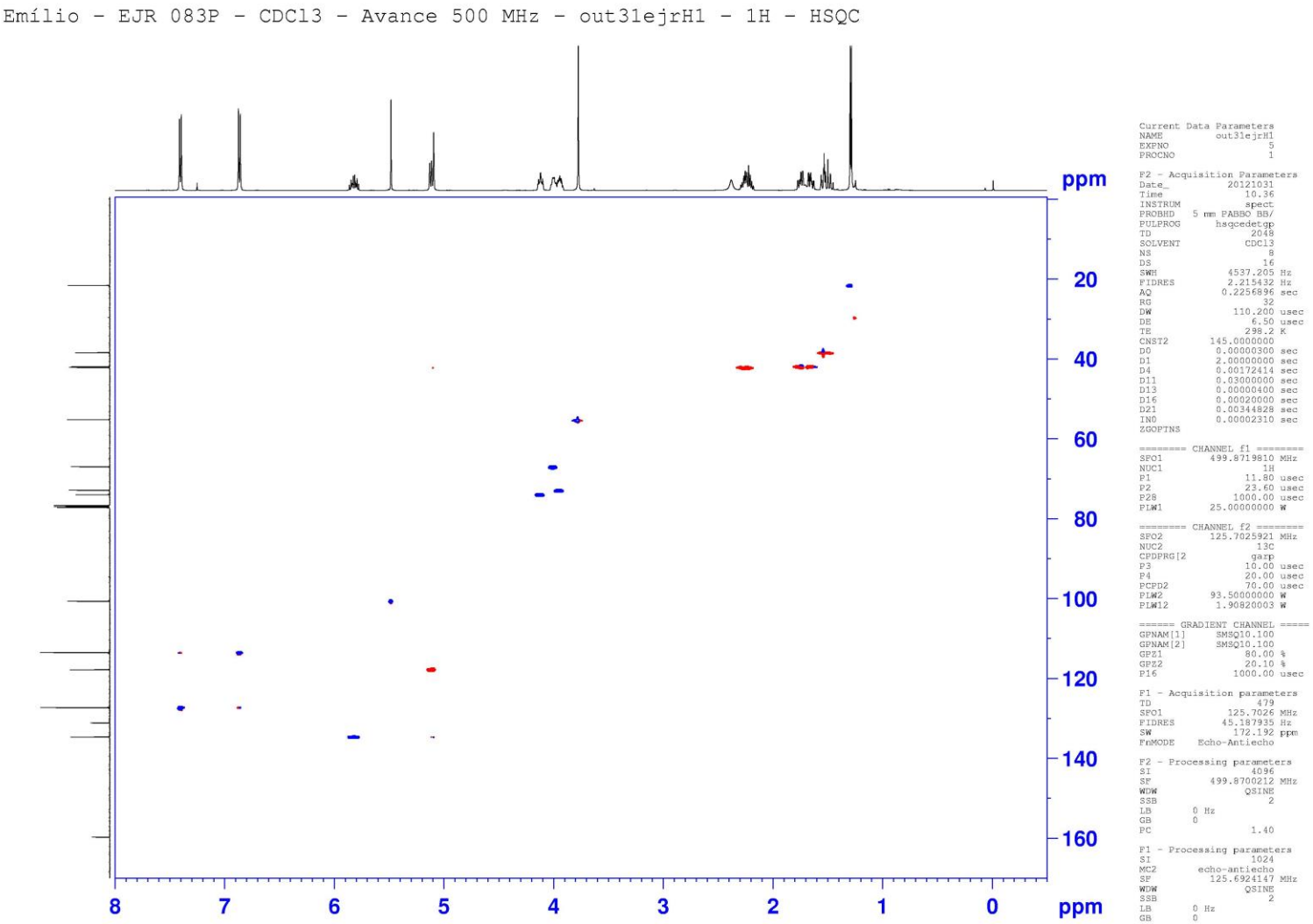


Figure S87: HSQC contour map of compound **50**.

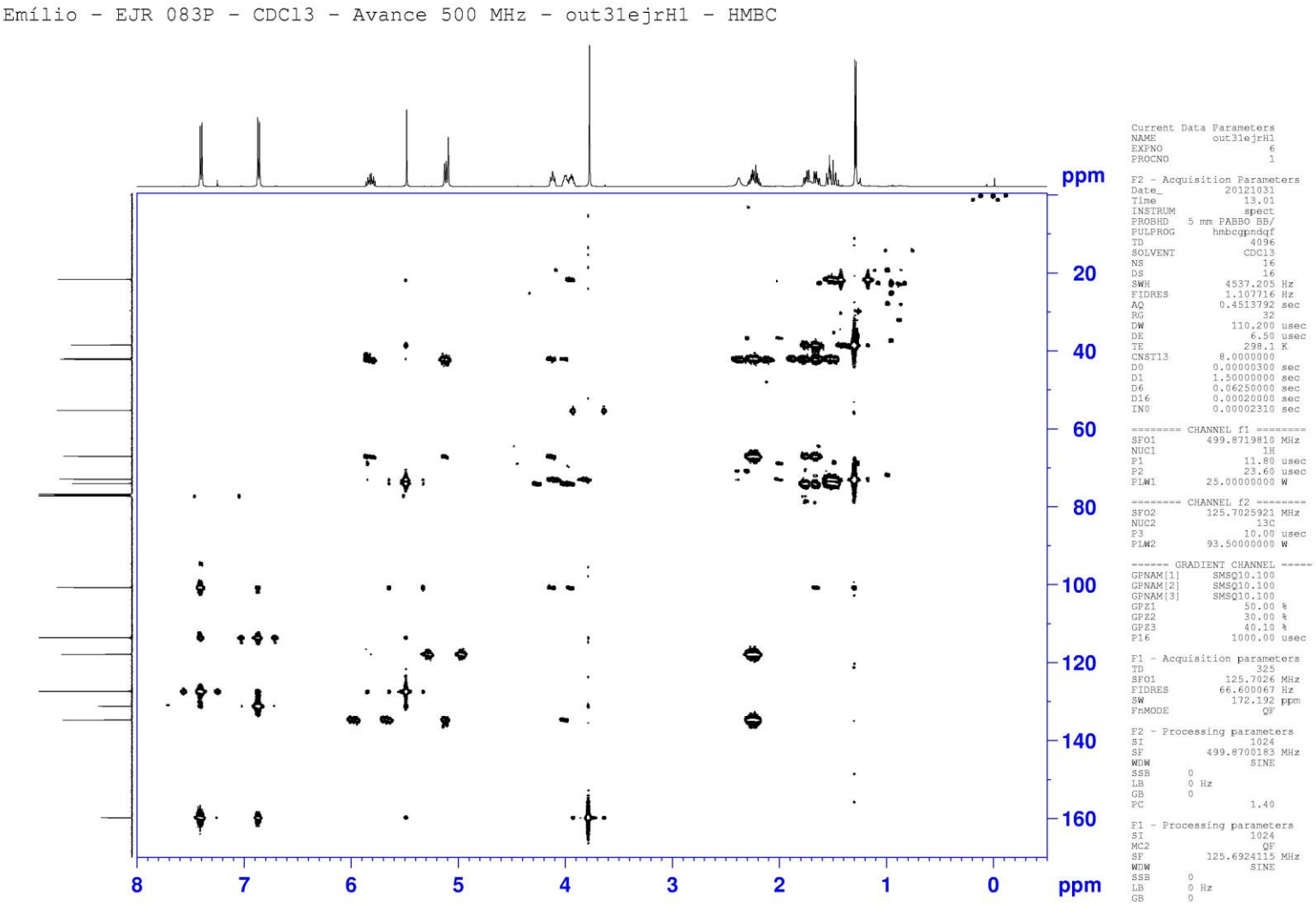


Figure S88: HMBC contour map of compound **50**.

Acquisition Time (sec)	4.6137	***Date***	01 Nov 2012 07:48:12				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2012\nov01ejrH1_004001r					***Frequency (MHz)***	400.18
Nucleus	1H	***Number of Transients***	128	***Original Points Count***	16384	***Points Count***	32768
Pulse Sequence	selnogp	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	3551.14
Temperature (degree C)	23.060						

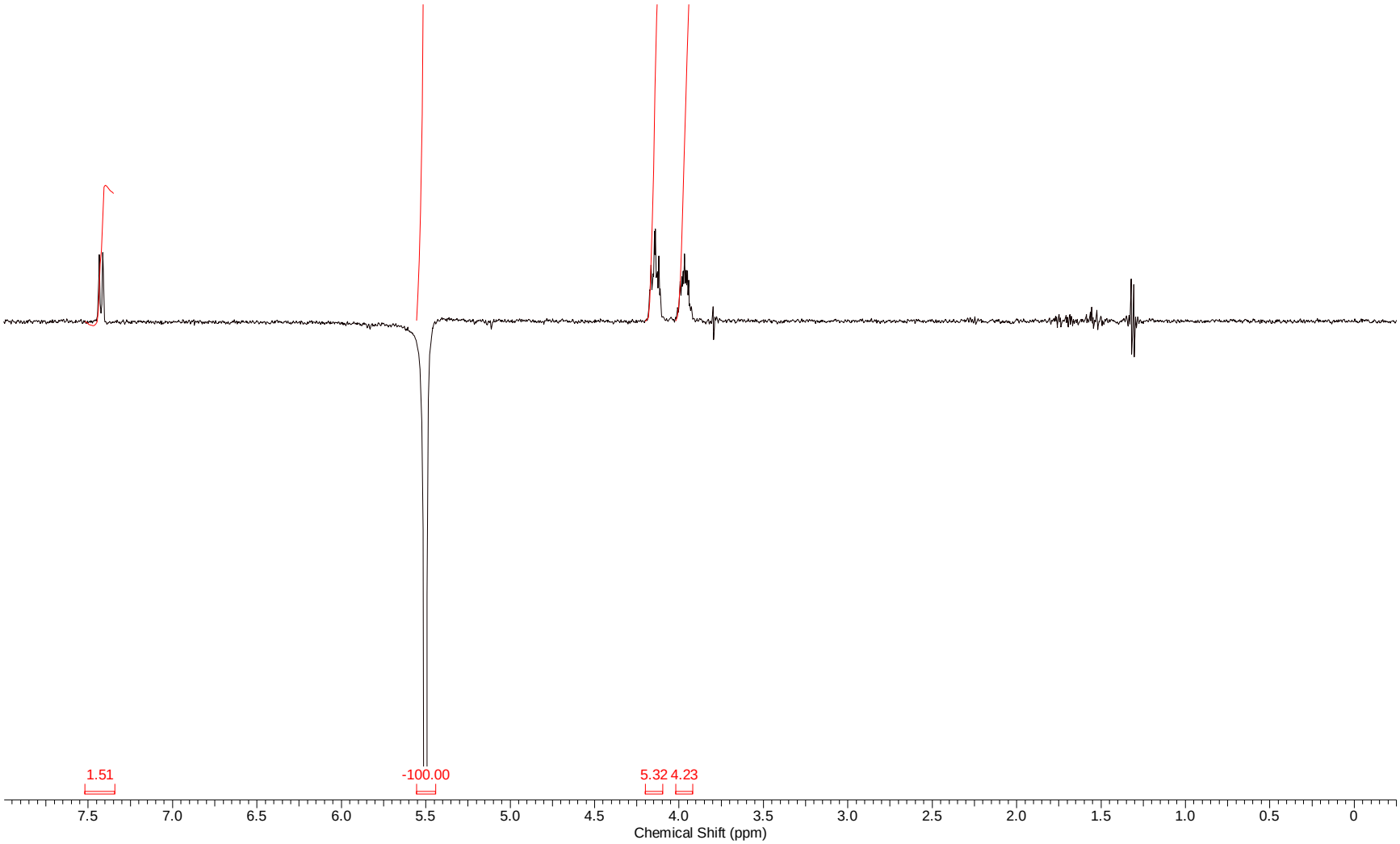


Figure S89: ^{1}H NMR (1D selective NOE) spectrum of compound **50** (400 MHz; $CDCl_3$).

Acquisition Time (sec)	5.4657	***Comment***	Emilio EJR-115P CDCl3 250 MHz mar07ejrH1			***Date***	07 Mar 2013 21:27:32
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2013\mar07ejrH1_001001r					***Frequency (MHz)***	250.13
Nucleus	1H	***Number of Transients***	7	***Original Points Count***	16384	***Points Count***	32768
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D	***Sweep Width (Hz)***	2997.60	***Temperature (degree C)***	25.160

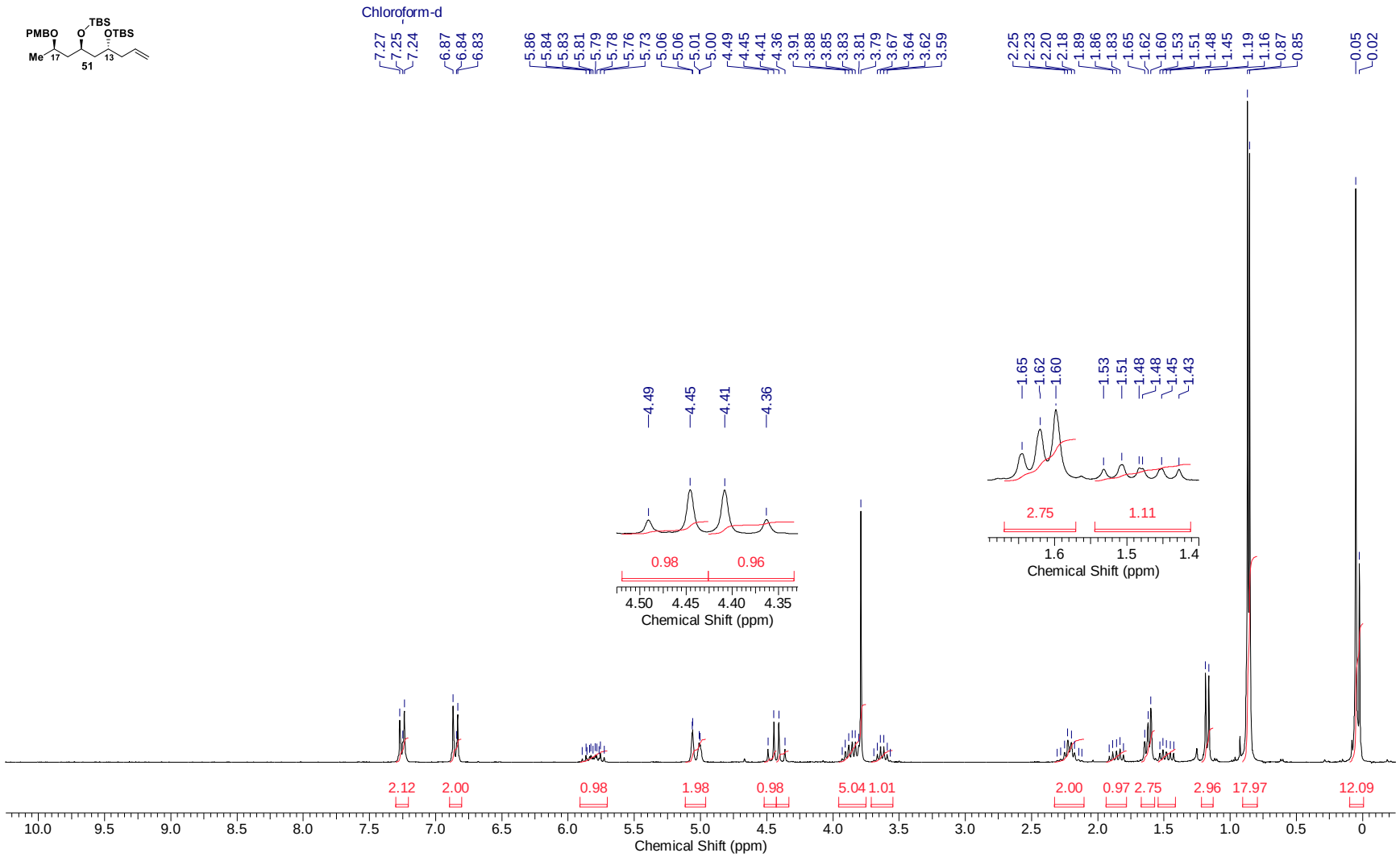


Figure S90: ^{1}H NMR spectrum of compound **51** (250 MHz; $CDCl_3$).

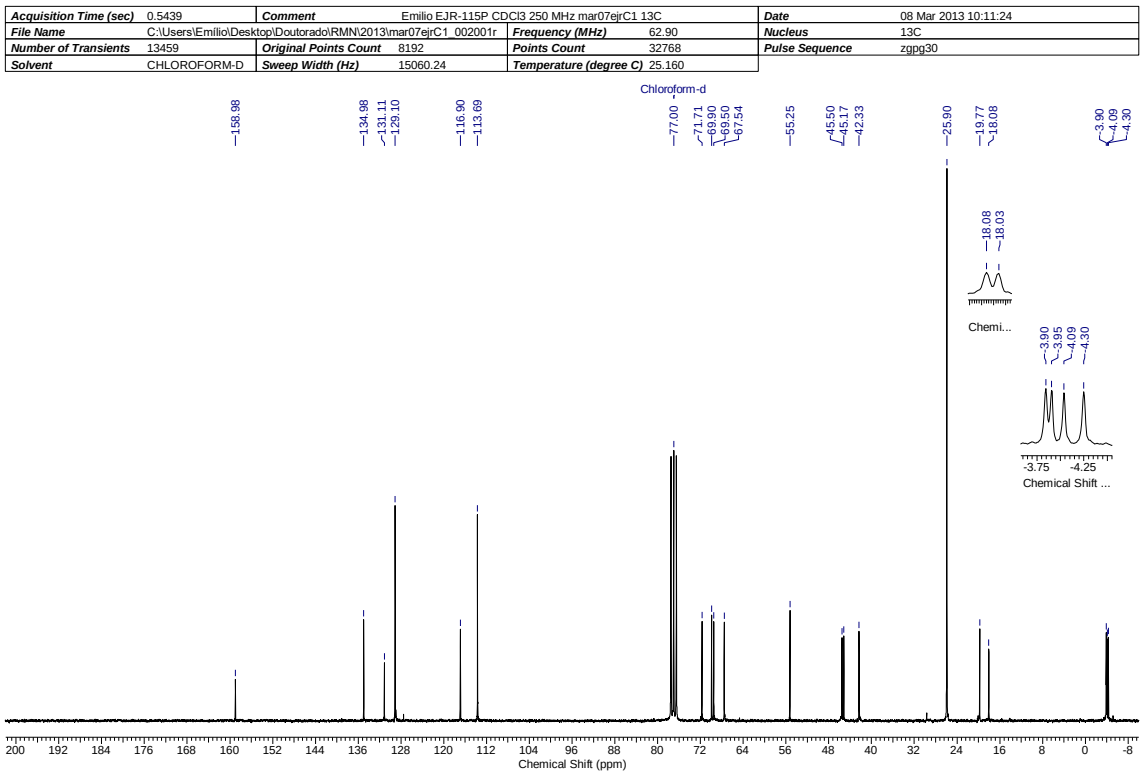


Figure S91: ^{13}C NMR spectrum of compound **51** (62.5 MHz; $CDCl_3$).

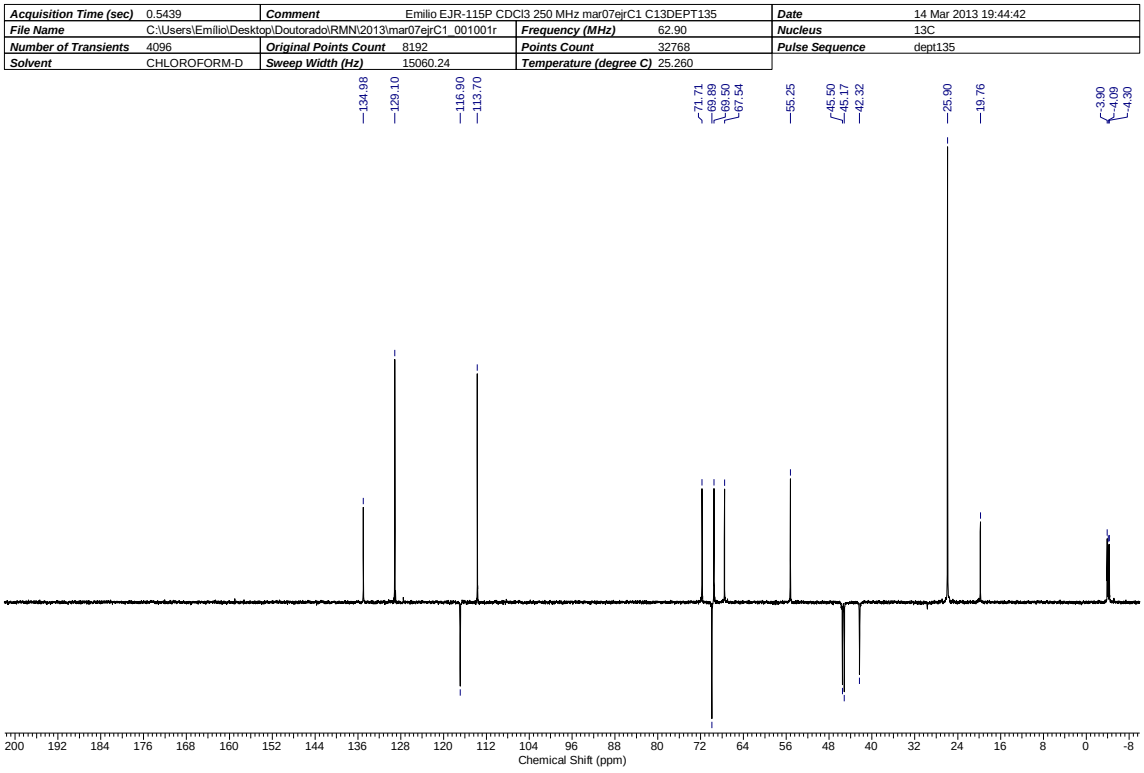


Figure S92: ^{13}C NMR (dept 135) spectrum of compound **51** (62.5 MHz; $CDCl_3$).

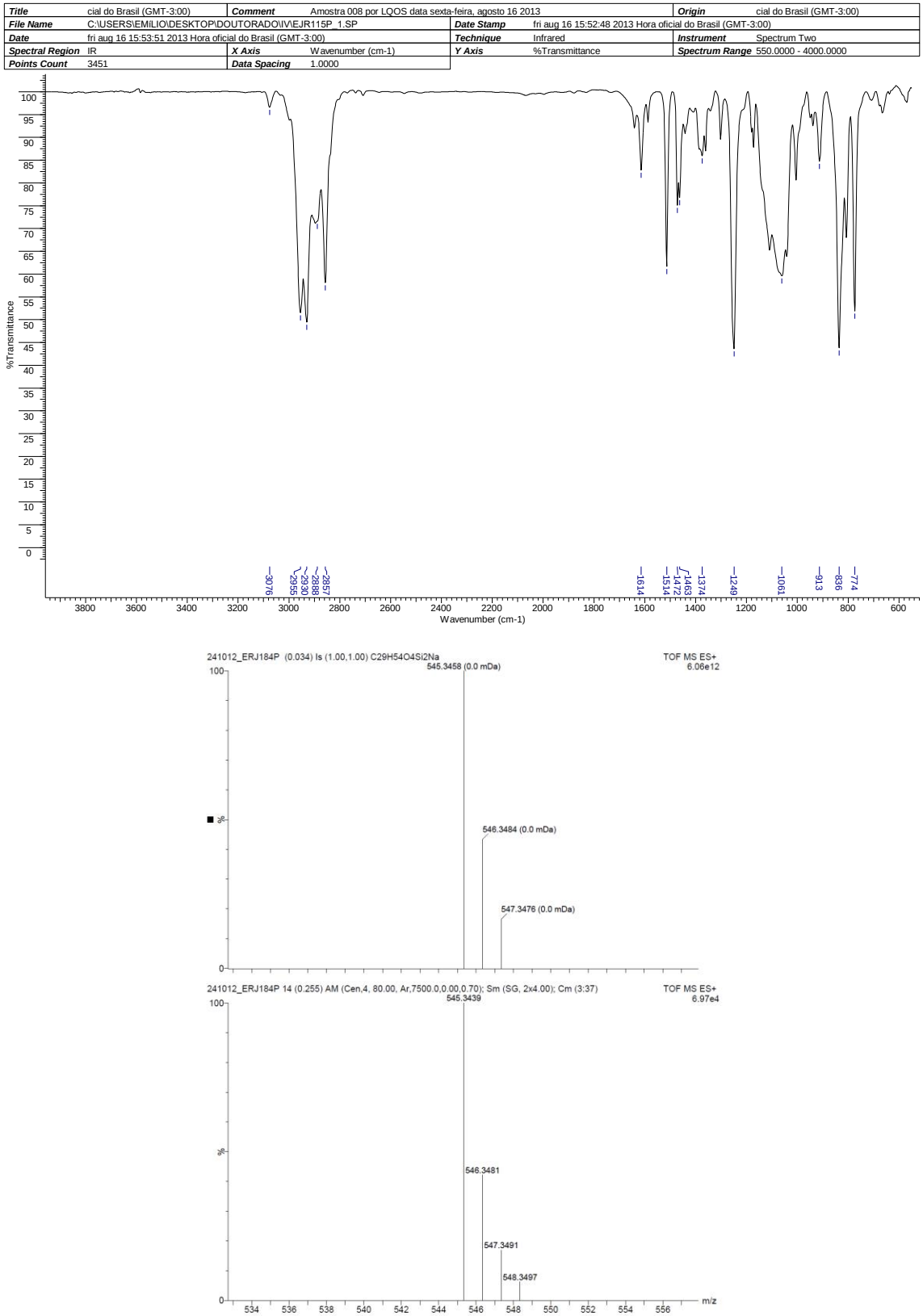


Figure S93: IR and HRMS (ESI TOF-MS) spectra of compound **51**.

Acquisition Time (sec)	1.5903	***Date***	11 Mar 2013 08:10:50				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2013\mar11ejrH1_001001r					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	10302.20
Temperature (degree C)	25.151						

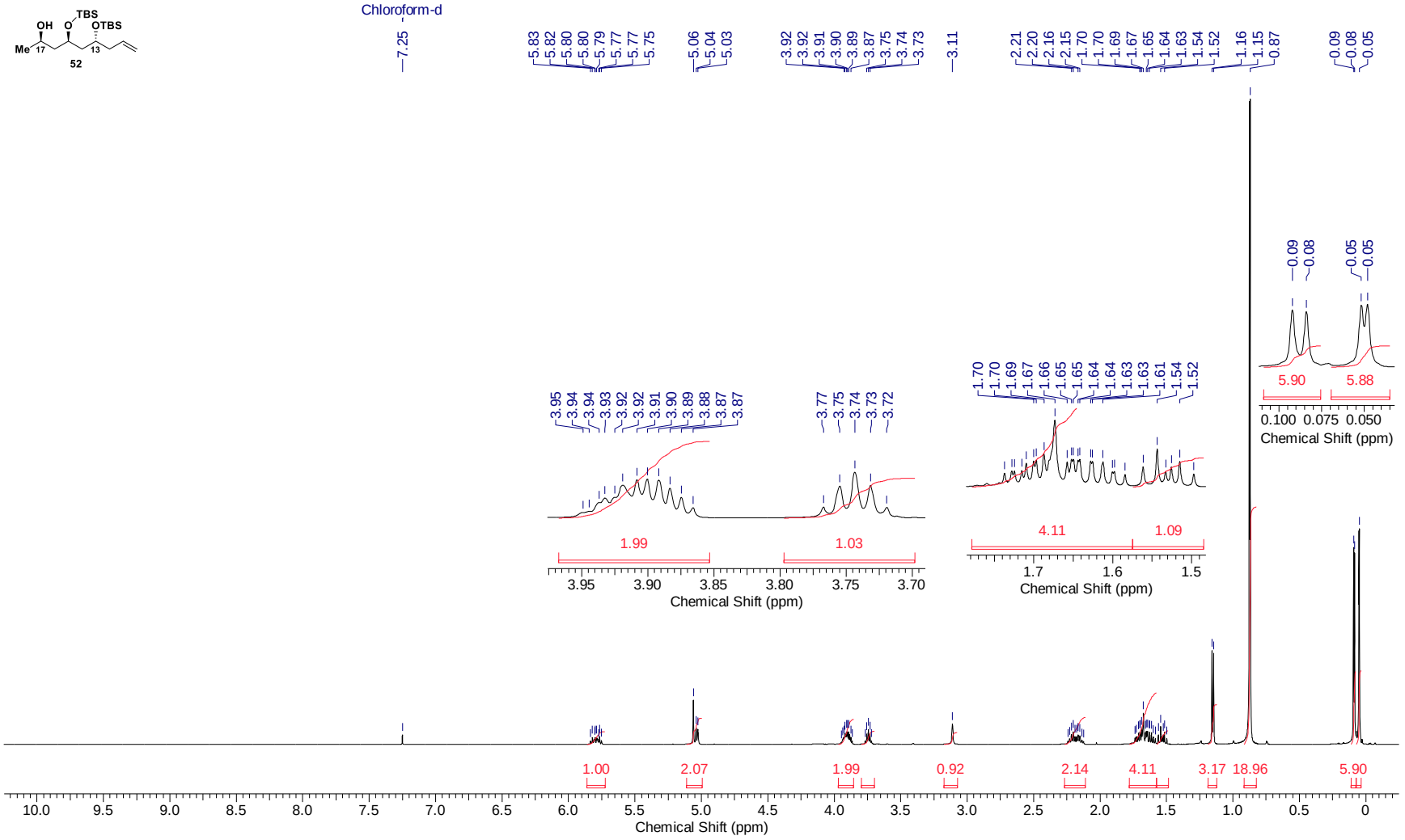


Figure S94: ^{1}H NMR spectrum of compound **52** (500 MHz; $CDCl_3$).

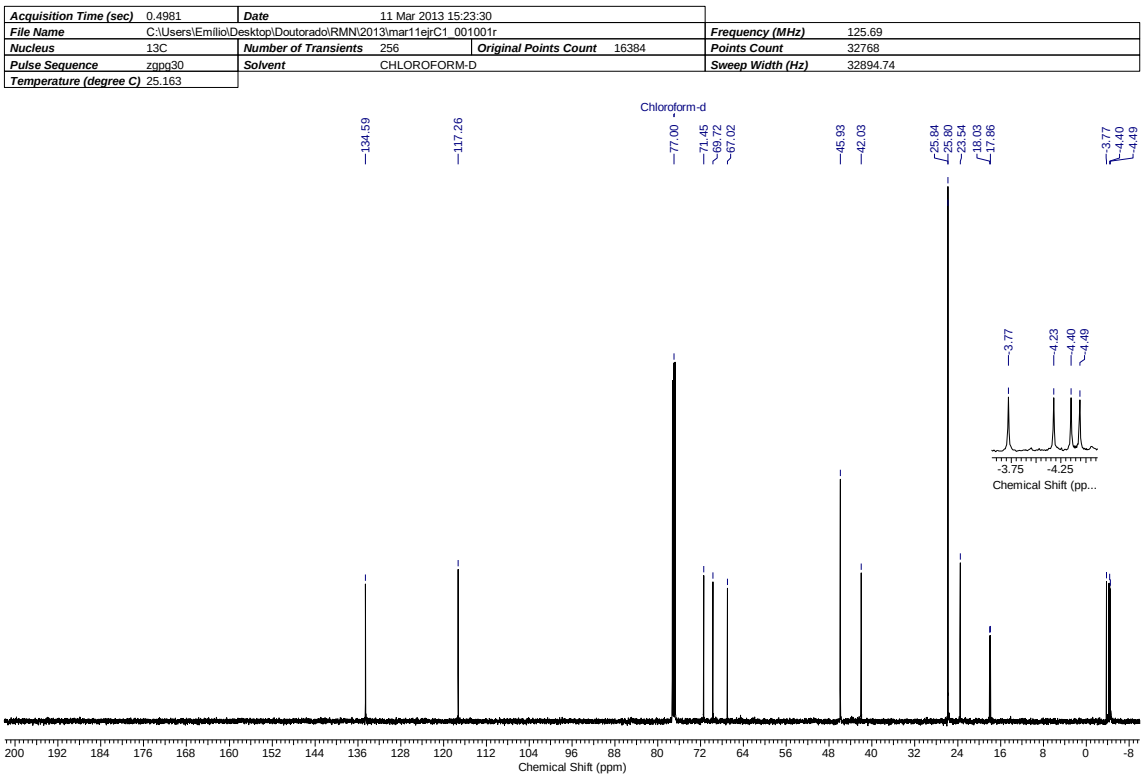


Figure S95: ^{13}C NMR spectrum of compound **52** (125 MHz; $CDCl_3$).

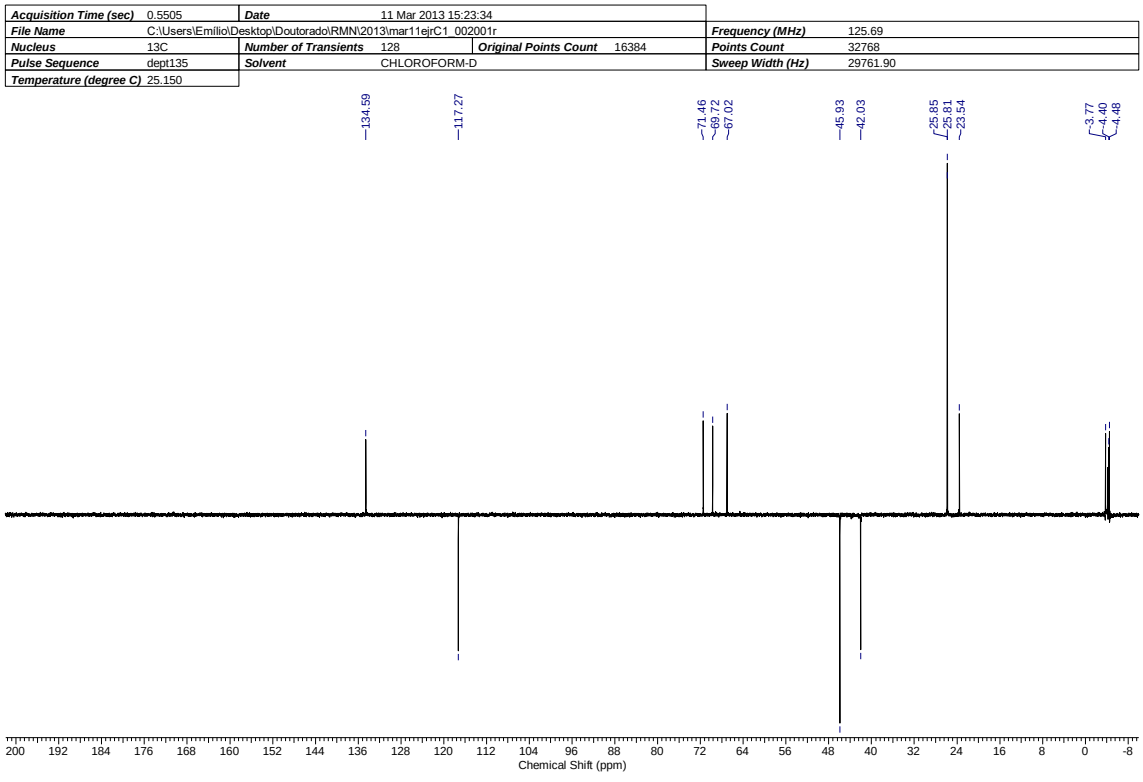


Figure S96: ^{13}C NMR (dept 135) spectrum of compound **52** (125 MHz; $CDCl_3$).

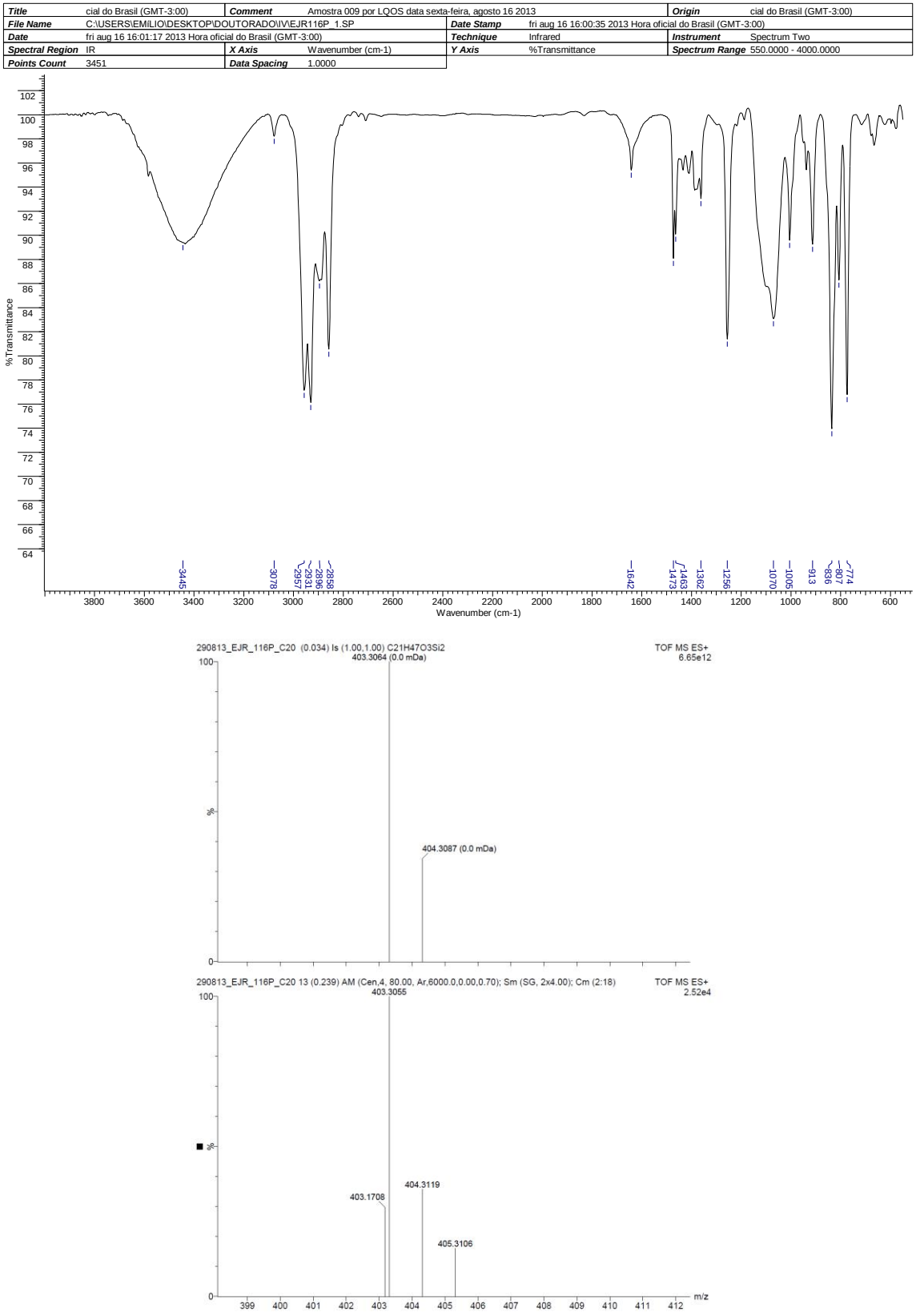


Figure S97: IR and HRMS (ESI TOF-MS) spectra of compound **52**.

Acquisition Time (sec)	1.5903	***Date***	12 Mar 2013 13:10:38				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2013\mar12ejrH1_001001r					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	10302.20
Temperature (degree C)	25.144						

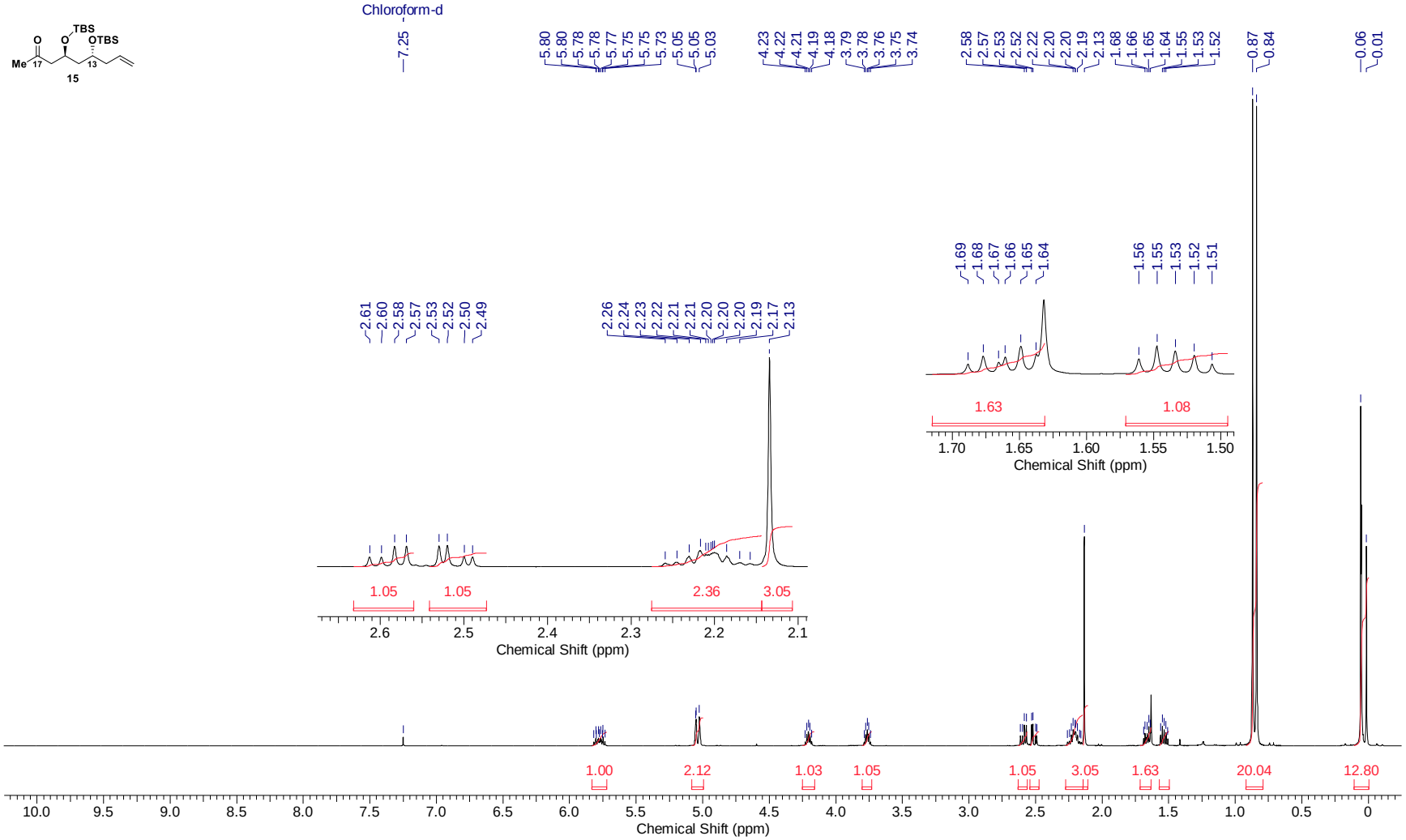


Figure S98: ^{1}H NMR spectrum of compound **15** (500 MHz; $CDCl_3$).

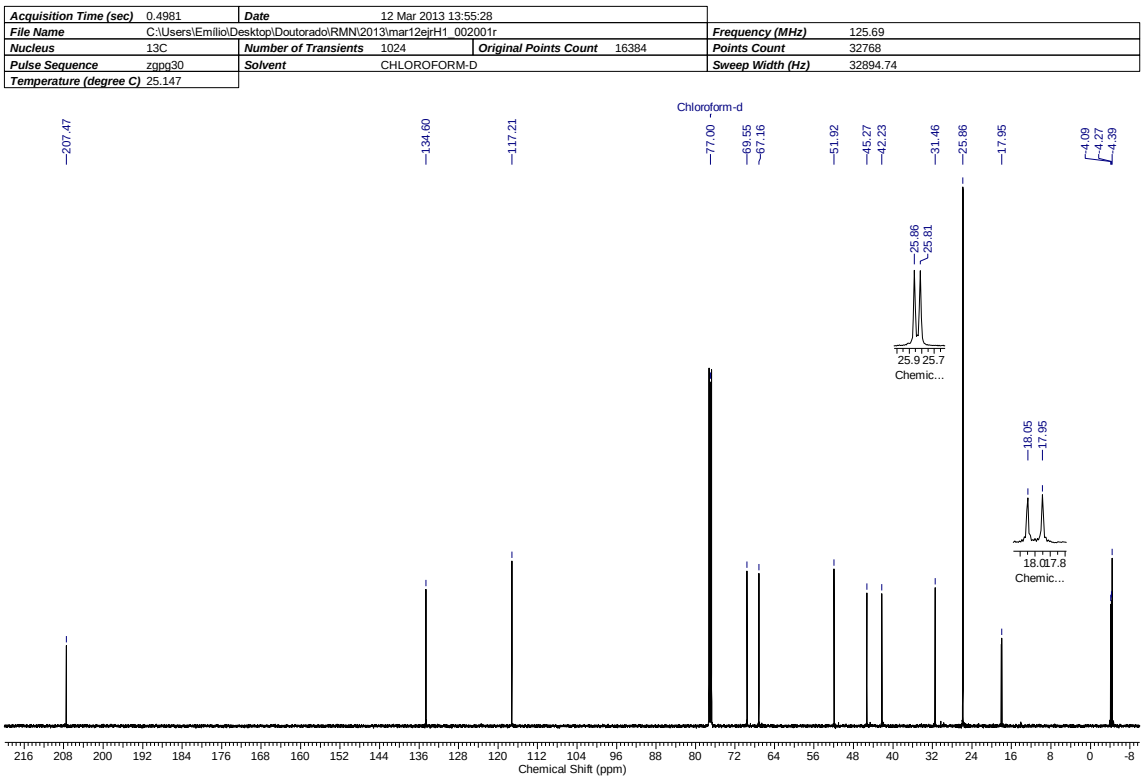


Figure S99: ^{13}C NMR spectrum of compound **15** (125 MHz; $CDCl_3$).

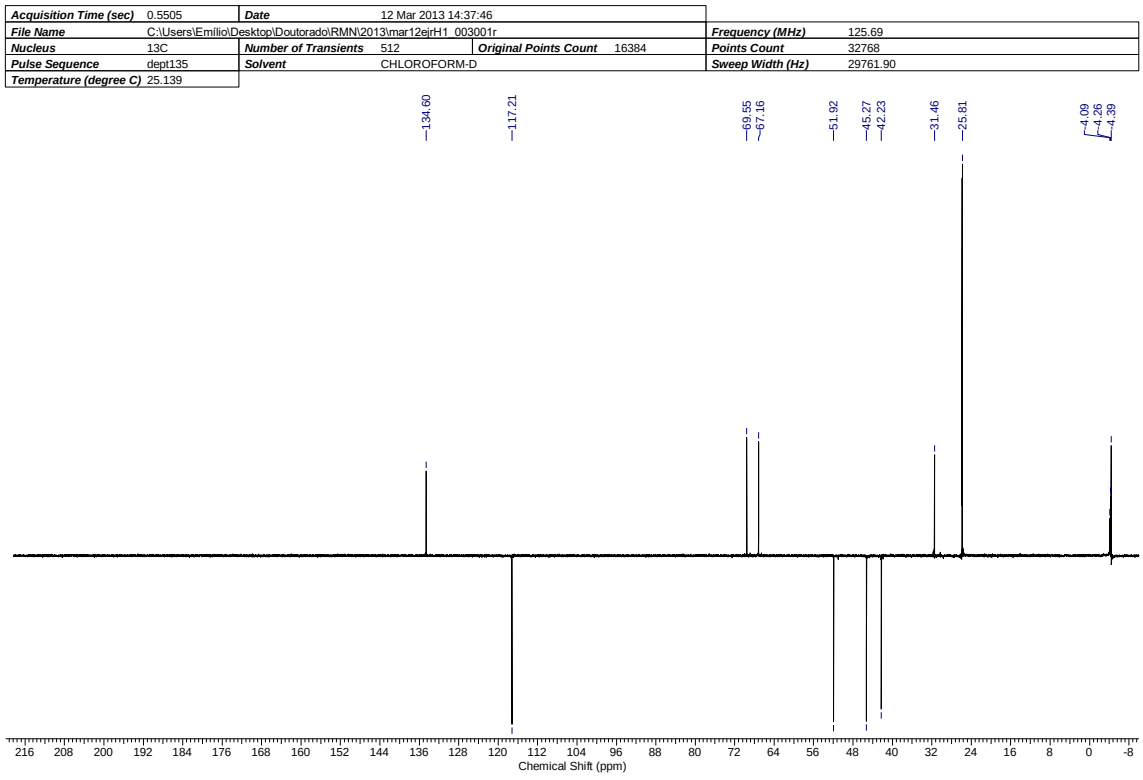
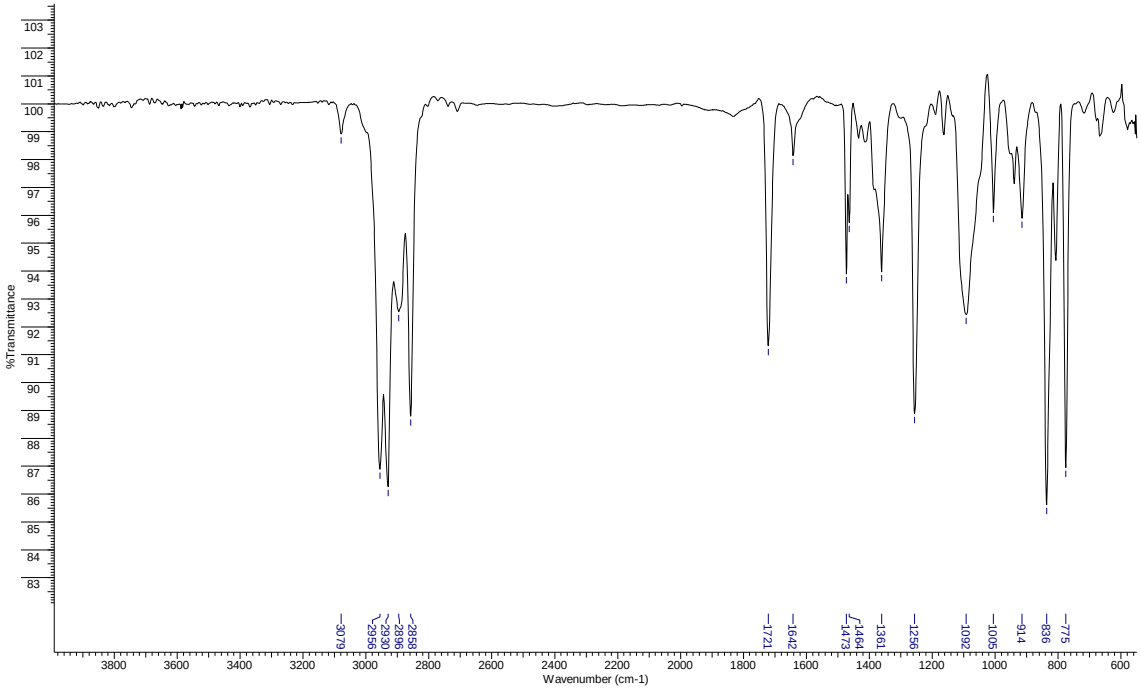


Figure S100: ^{13}C NMR (dept 135) spectrum of compound **15** (125 MHz; $CDCl_3$).

Title	cial do Brasil (GMT-3:00)	***Comment***	Amostra 010 por LQOS data sexta-feira, agosto 16 2013			***Origin***	cial do Brasil (GMT-3:00)
File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IV\EJR117P_1.SP			***Date Stamp***	fri aug 16 16:07:06 2013 Hora oficial do Brasil (GMT-3:00)		
Date	fri aug 16 16:09:57 2013 Hora oficial do Brasil (GMT-3:00)			***Technique***	Infrared	***Instrument***	Spectrum Two
Spectral Region	IR	***X Axis***	Wavenumber (cm-1)	***Y Axis***	%Transmittance	***Spectrum Range***	550.0000 - 4000.0000
Points Count	3451	***Data Spacing***	1.0000				



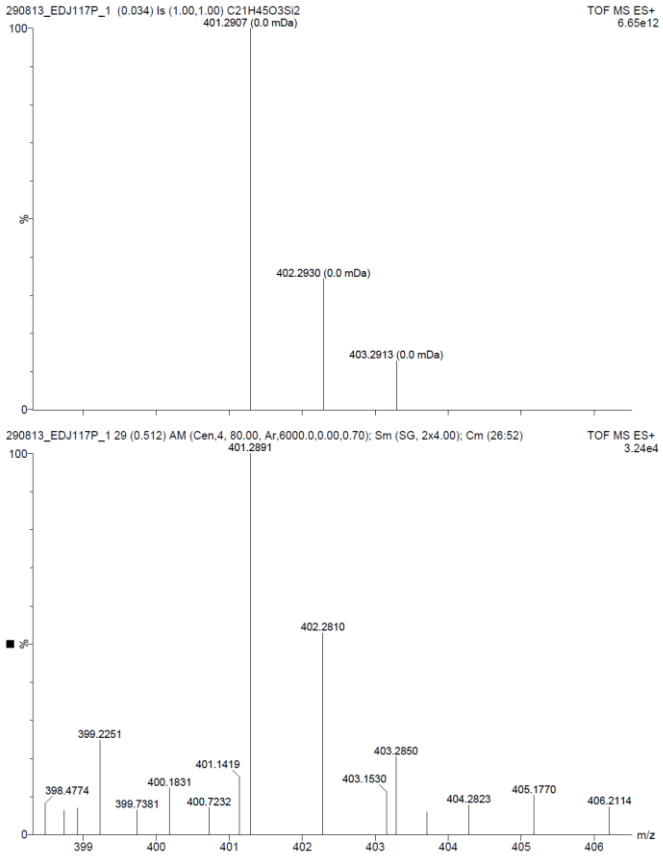


Figure S101: IR and HRMS (ESI TOF-MS) spectra of compound **15**.

Acquisition Time (sec)	3.1654	***Date***	21 May 2013 10:53:38				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2013\mai21ejrH1_001001r					***Frequency (MHz)***	250.13
Nucleus	1H	***Number of Transients***	9	***Original Points Count***	16384	***Points Count***	32768
Pulse Sequence	zg30	***Solvent***	BENZENE-D6	***Sweep Width (Hz)***	5175.98	***Temperature (degree C)***	25.160

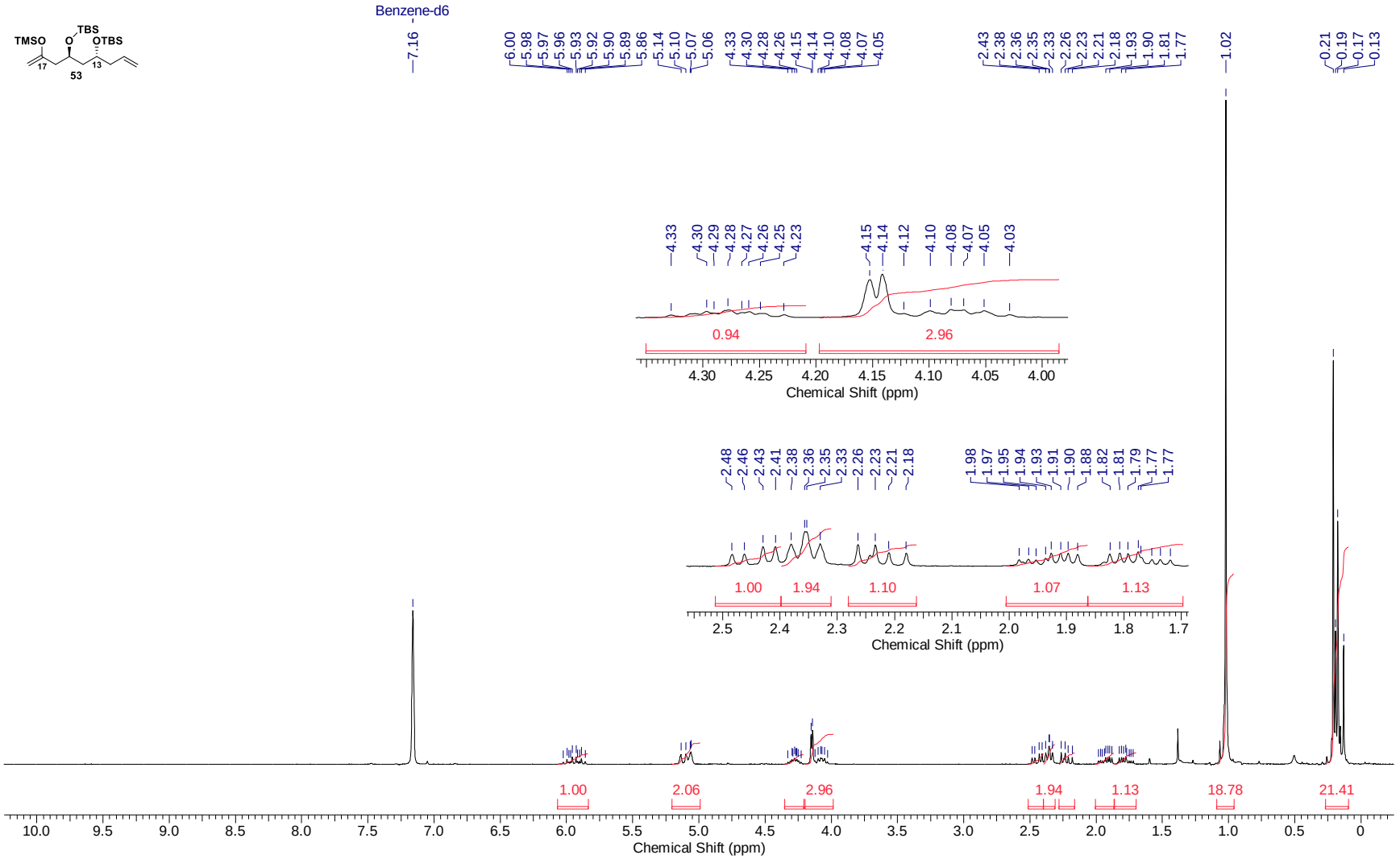


Figure S102: ^{1}H NMR spectrum of compound **53** (250 MHz; C_6D_6).

Acquisition Time (sec)	1.6384	***Comment***	Emilio - EJR 187 P - CDCl3 - Avance 500 MHz - out07ejrH1 - 1H			***Date***	07 Oct 2013 10:08:00
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2013\out07ejrH1\out07ejrH1_001000fid					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	16384
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	25.140

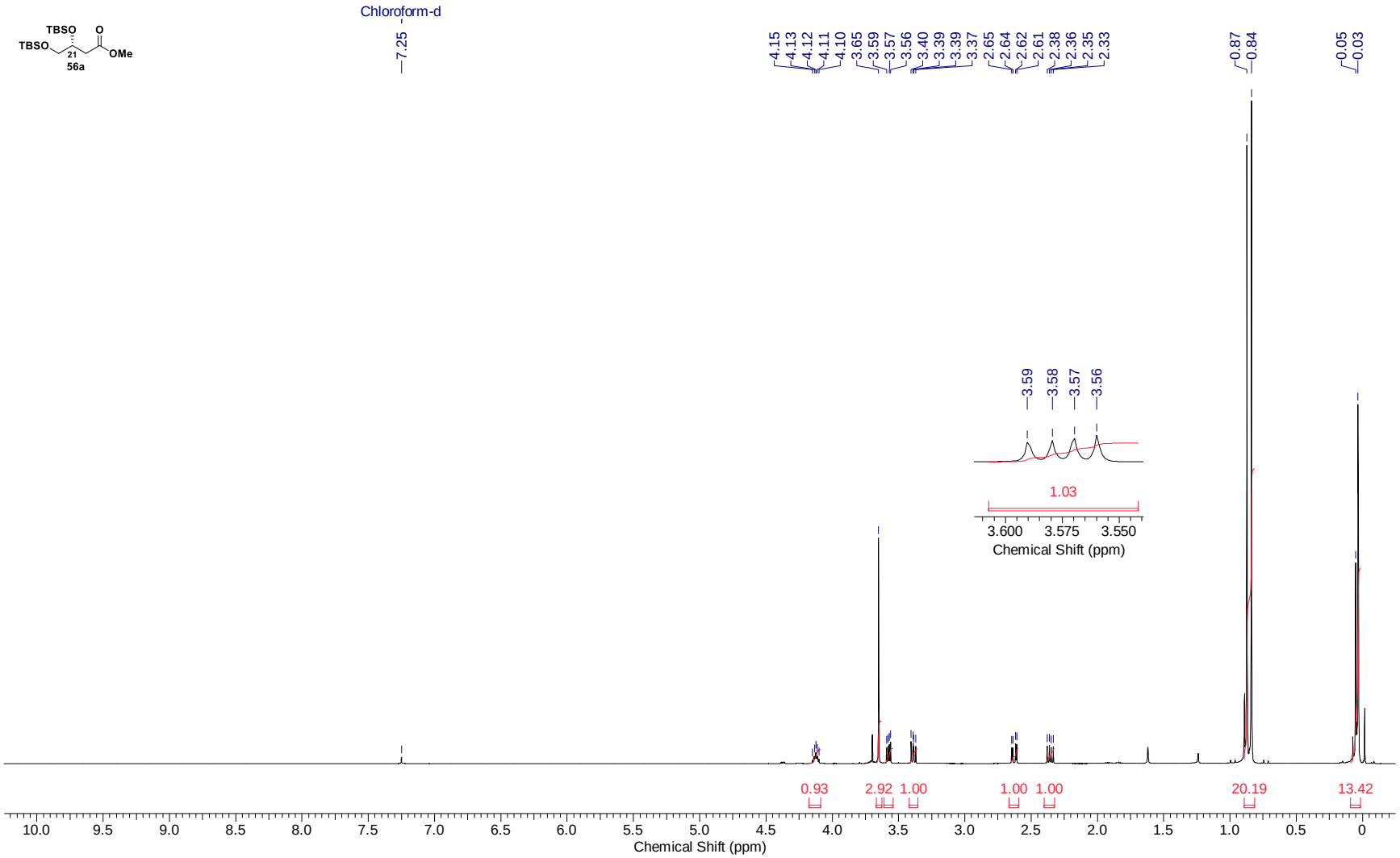


Figure S103: ^{1}H NMR spectrum of compound **56a** (500 MHz; $CDCl_3$).

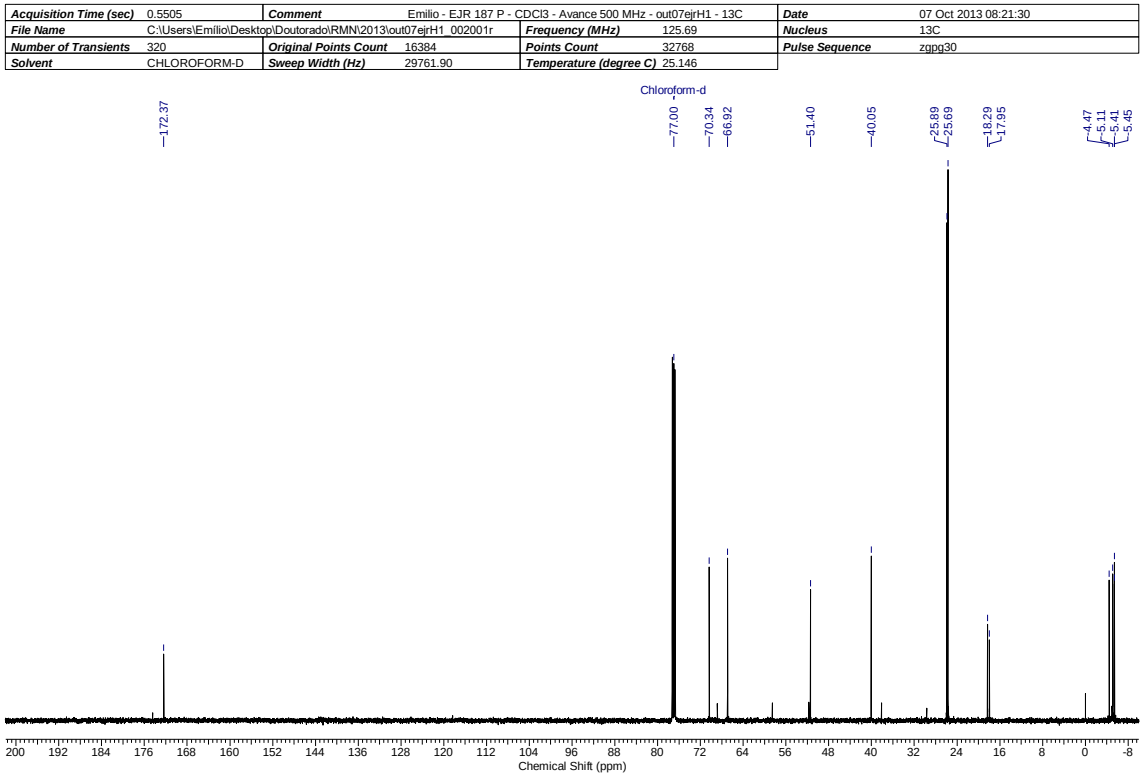


Figure S104: ^{13}C NMR spectrum of compound **56a** (125 MHz; $CDCl_3$).

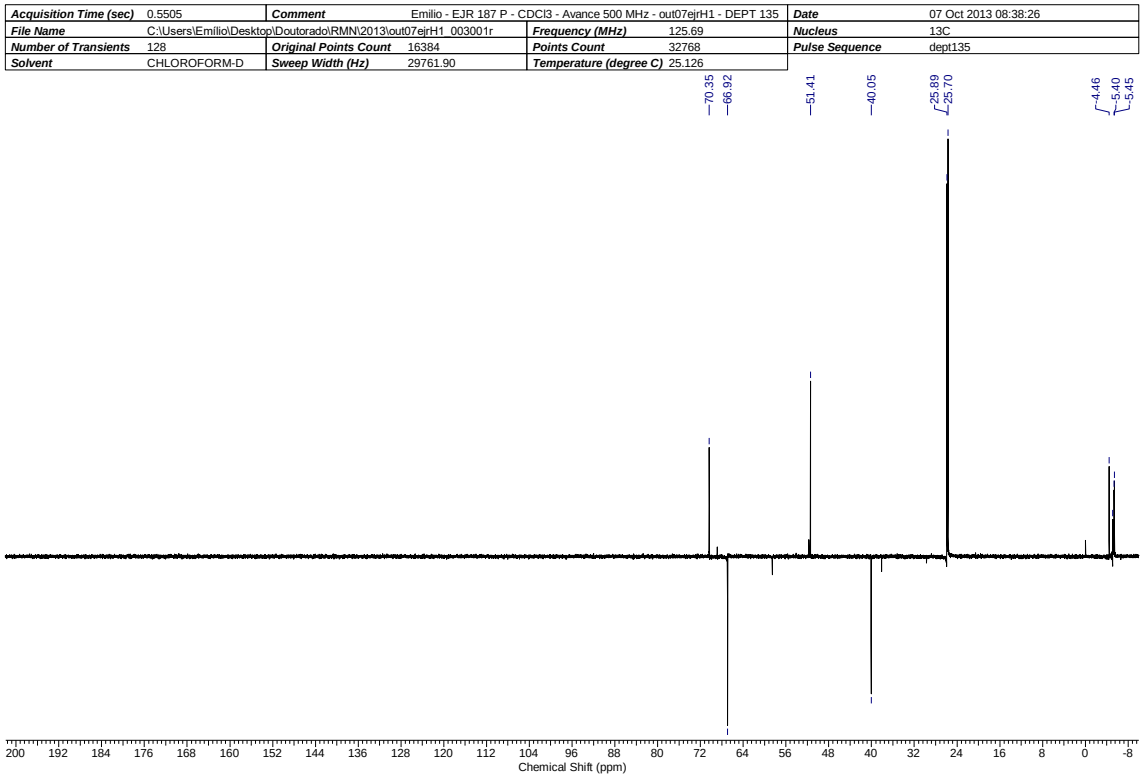


Figure S105: ^{13}C NMR (dept 135) spectrum of compound **56a** (125 MHz; $CDCl_3$).

Title	cial do Brasil (GMT-3:00)	***Comment***	Amostra 000 por LQOS data segunda-feira, outubro 07 2013			***Origin***	cial do Brasil (GMT-3:00)
File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IV\EJR187P_1.SP			***Date Stamp***	mon oct 07 17:08:47 2013 Hora oficial do Brasil (GMT-3:00)		
Date	mon oct 07 17:11:45 2013 Hora oficial do Brasil (GMT-3:00)			***Technique***	Infrared	***Instrument***	Spectrum Two
Spectral Region	IR	***X Axis***	Wavenumber (cm-1)	***Y Axis***	%Transmittance	***Spectrum Range***	550.0000 - 4000.0000
Points Count	3451	***Data Spacing***	1.0000				

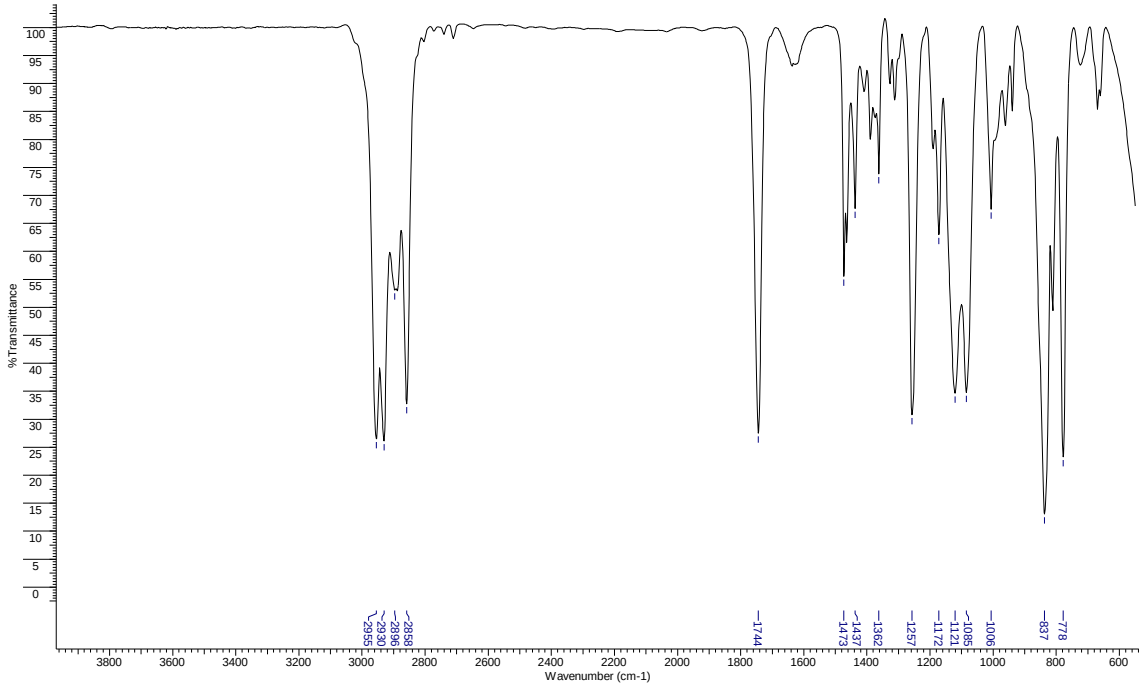


Figure S106: IR spectrum of compound **56a**.

Acquisition Time (sec)	1.6384	***Comment***	Emilio EJR-188P cdcl3 av500MHz out04ejrH1			***Date***	04 Oct 2013 10:20:00
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2013\out04ejrH1_001001r					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	25.156

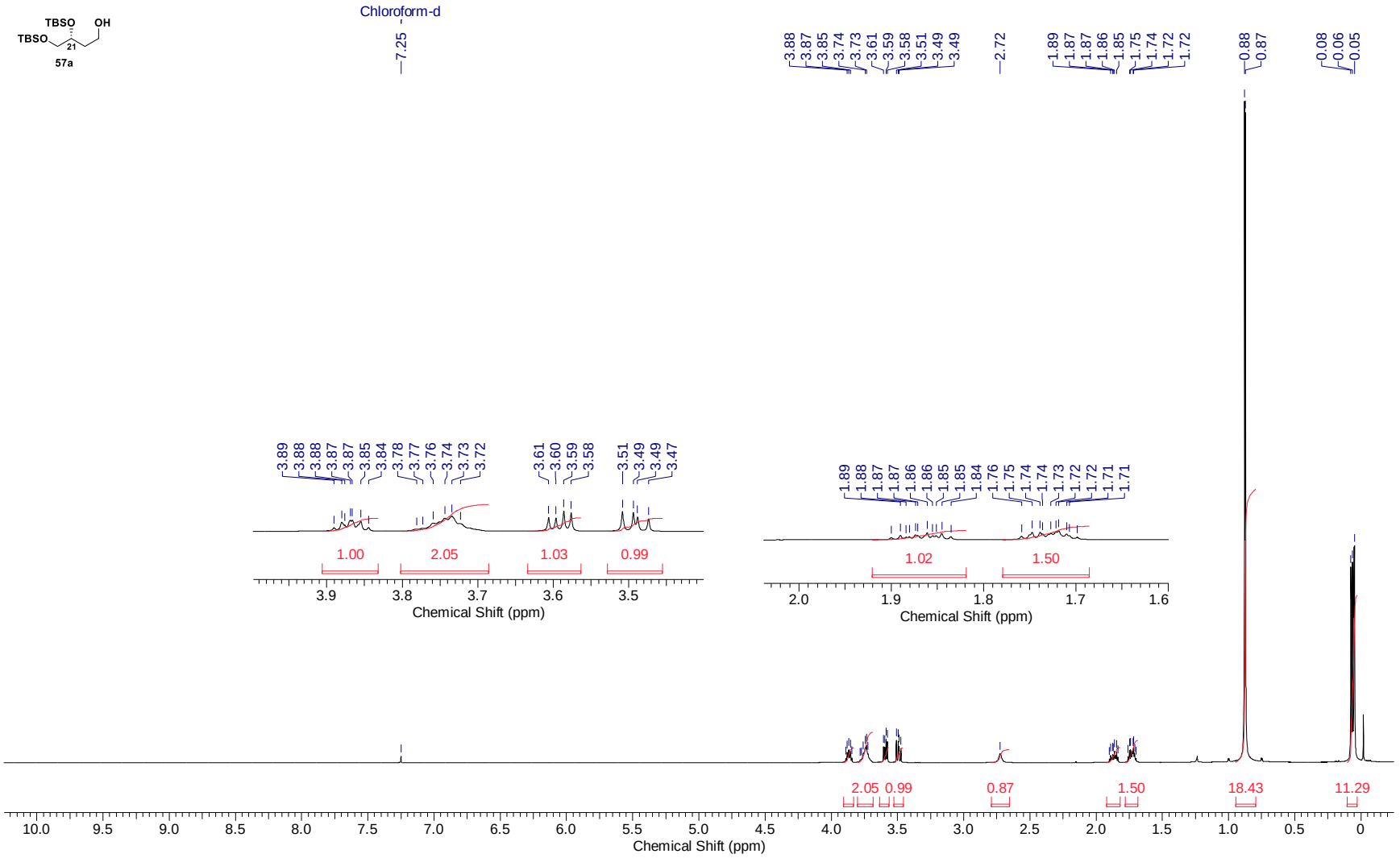


Figure S107: ^{1}H NMR spectrum of compound **57a** (500 MHz; $CDCl_3$).

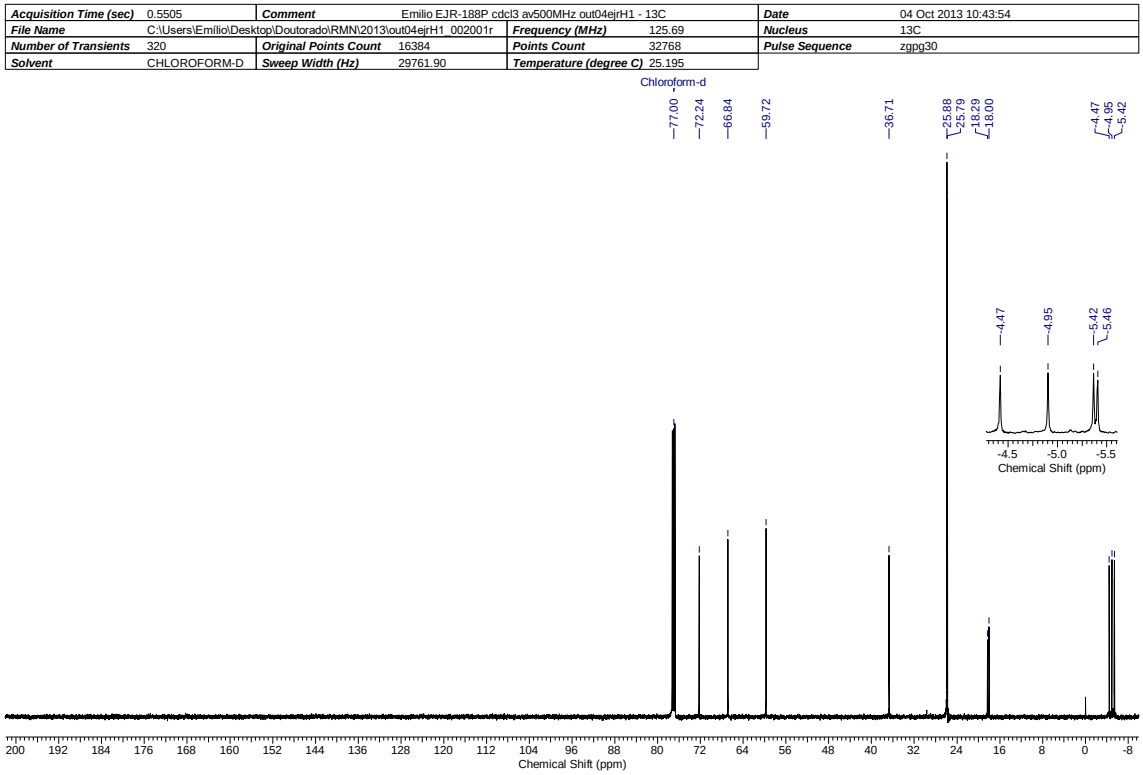


Figure S108: ^{13}C NMR spectrum of compound **57a** (125 MHz; $CDCl_3$).

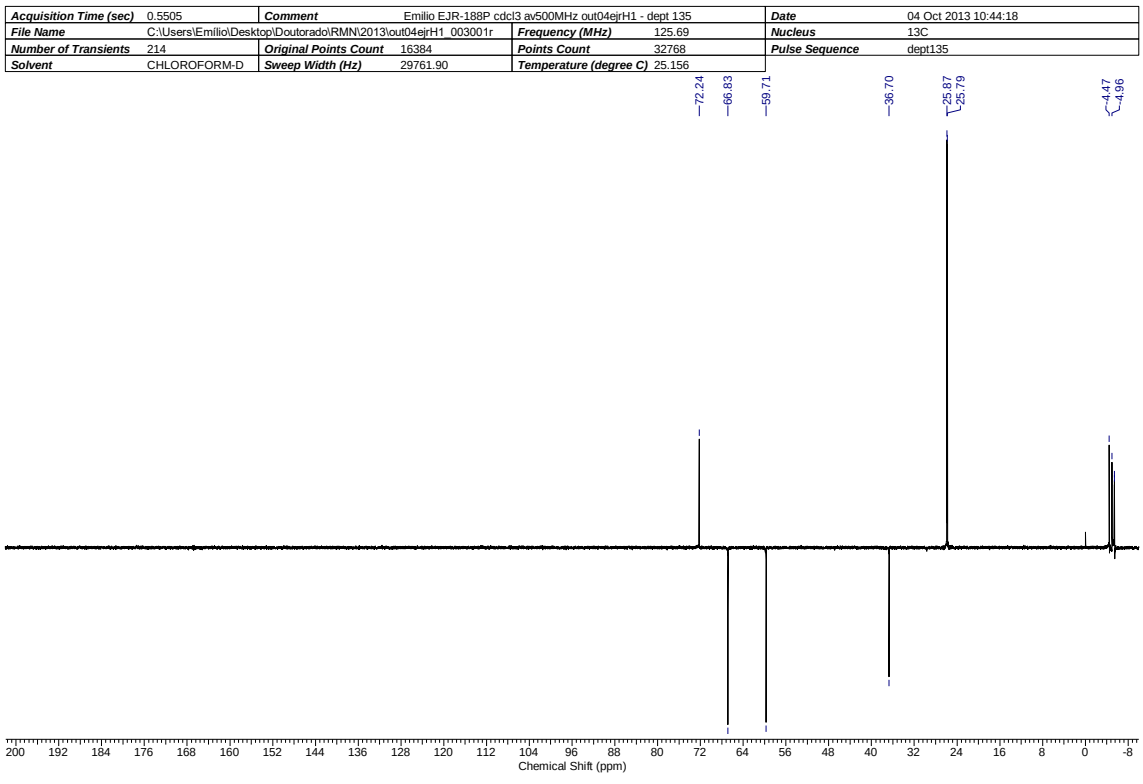


Figure S109: ^{13}C NMR (dept 135) spectrum of compound **57a** (125 MHz; $CDCl_3$).

Title	brasileiro de verão (GMT-2:00)	***Comment***	Amostra 009 por LQOS data segunda-feira, dezembro 02 2013		
Origin	brasileiro de verão (GMT-2:00)	***File Name***	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IV\EJR188P_1.SP		
Date Stamp	mon dec 02 14:47:28 2013 Horário brasileiro de verão (GMT-2:00)			***Date***	mon dec 02 14:48:32 2013 Horário brasileiro de verão (GMT-2:00)
Technique	Infrared	***Instrument***	Spectrum Two	***Spectral Region***	IR
X Axis	Wavenumber (cm-1)	***Y Axis***	%Transmittance	***Spectrum Range***	550.0000 - 4000.0000
Points Count	3451	***Data Spacing***	1.0000		

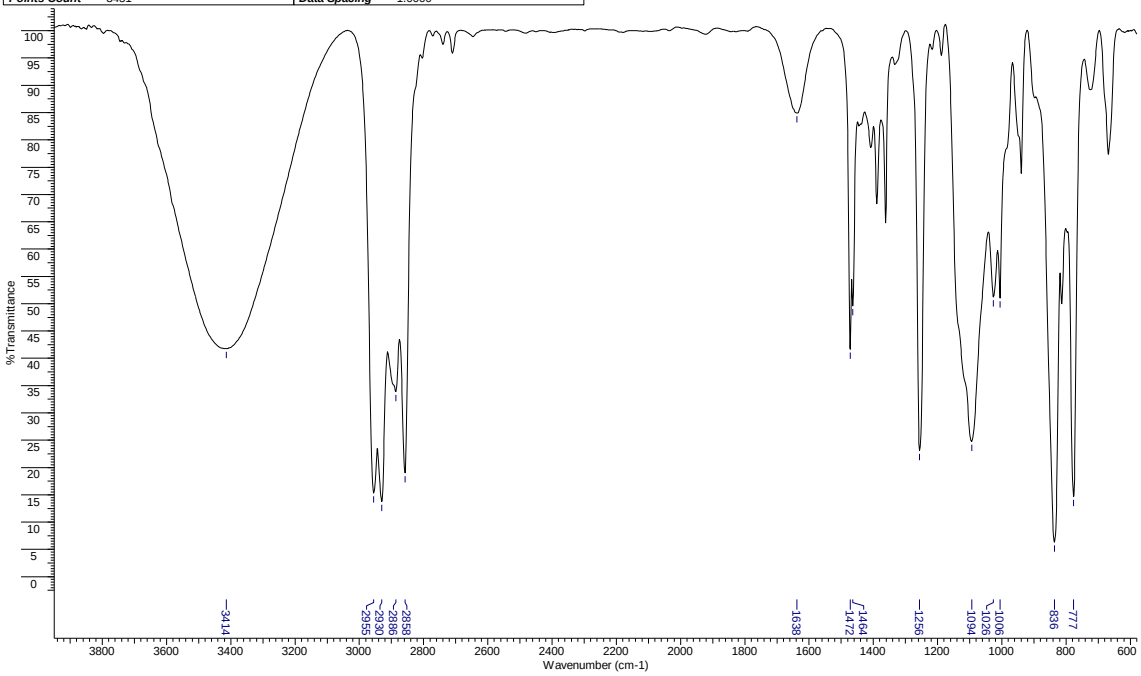


Figure S110: IR spectrum of compound **57a**.

Acquisition Time (sec)	1.6384	***Comment***	Emilio EJR-189 cdcl3 av500MHz out04ejrH2			***Date***	04 Oct 2013 10:50:52
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2013\out04ejrH2_001001r					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	10000.00
Temperature (degree C)	25.154						

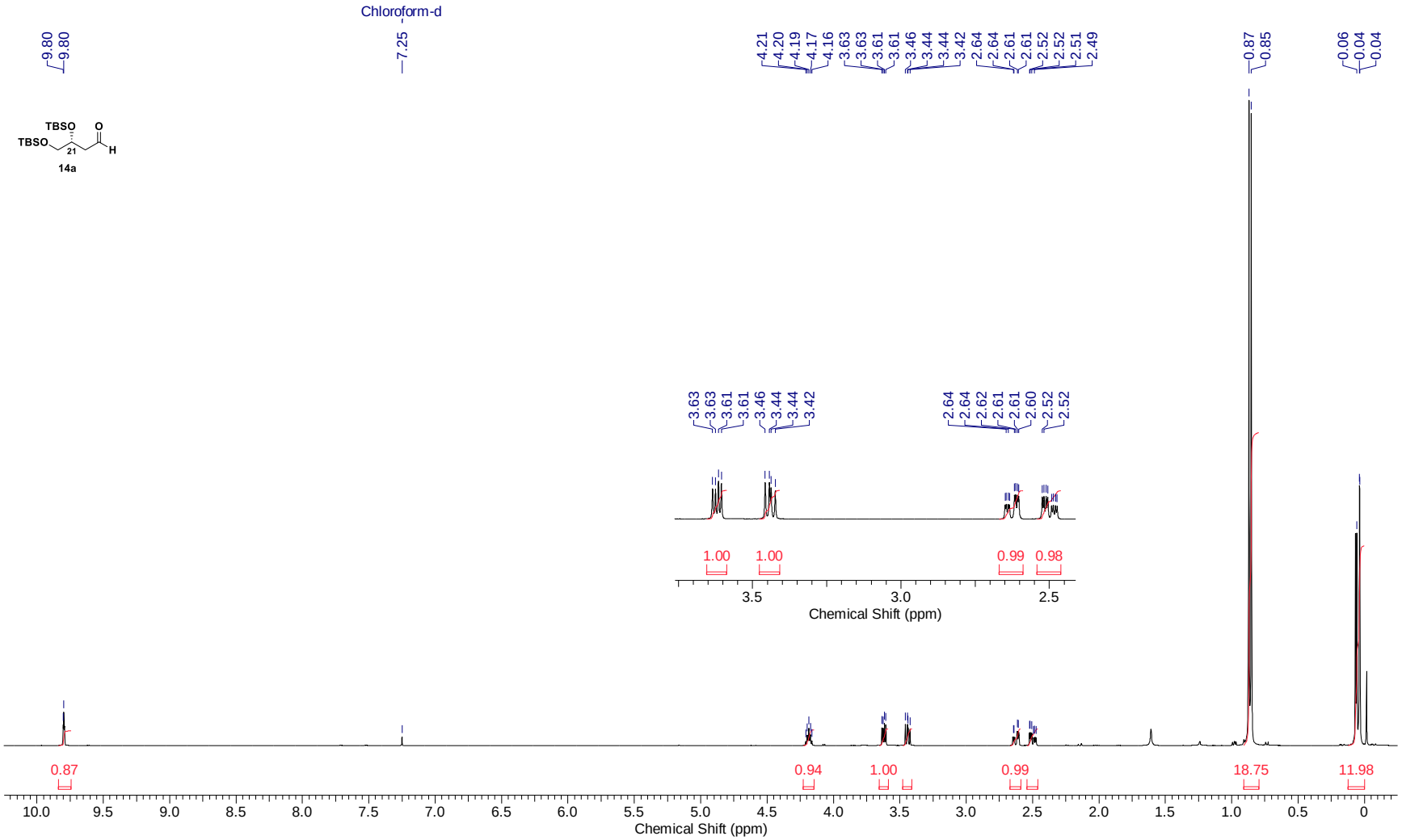


Figure S111: ^{1}H NMR spectrum of compound **14a** (500 MHz; $CDCl_3$).

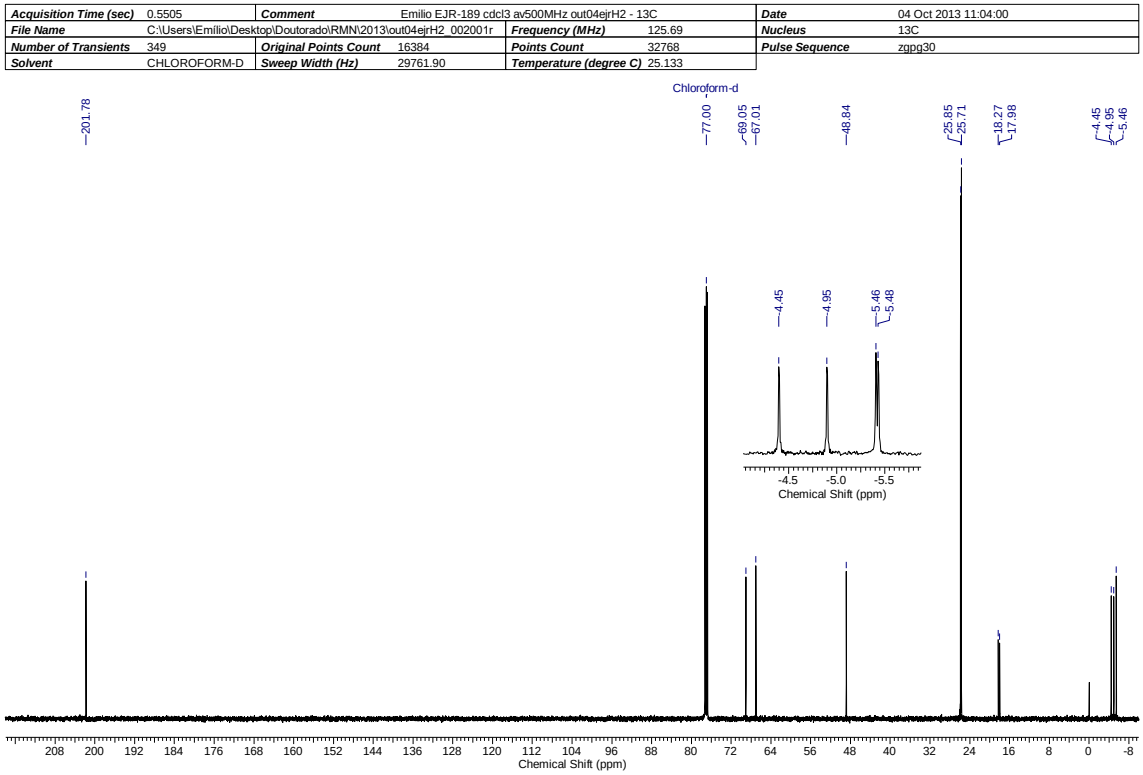


Figure S112: ^{13}C NMR spectrum of compound **14a** (125 MHz; $CDCl_3$).

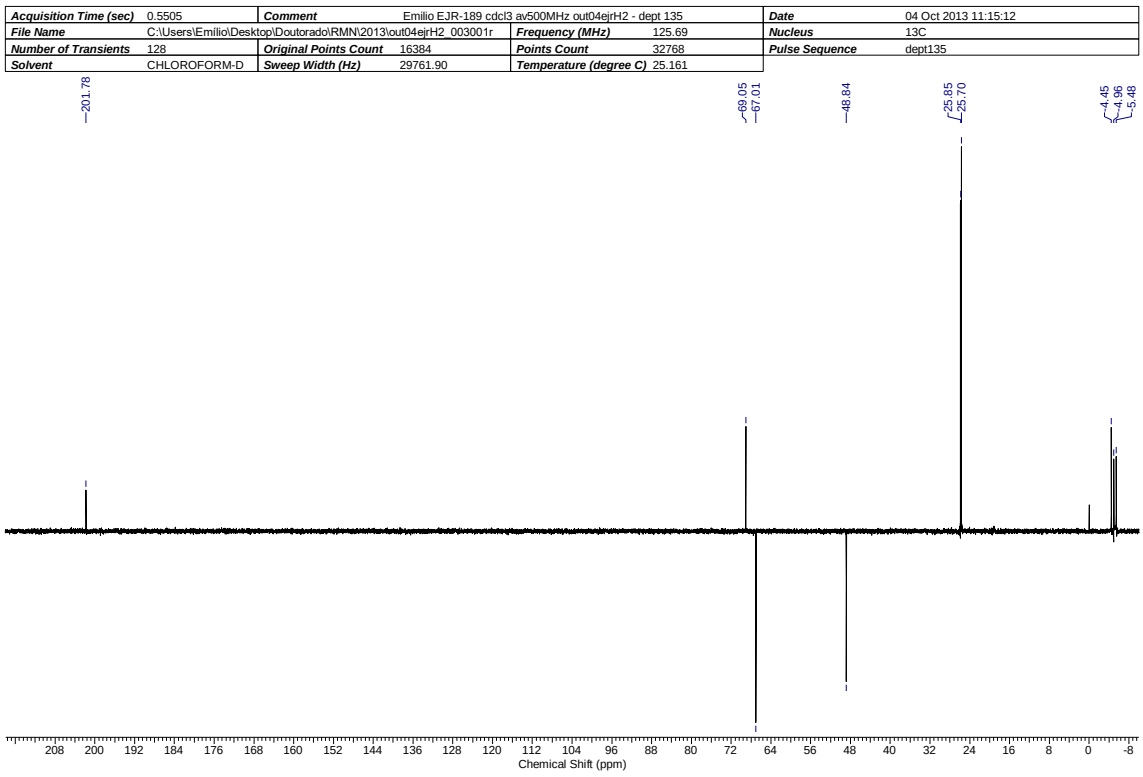
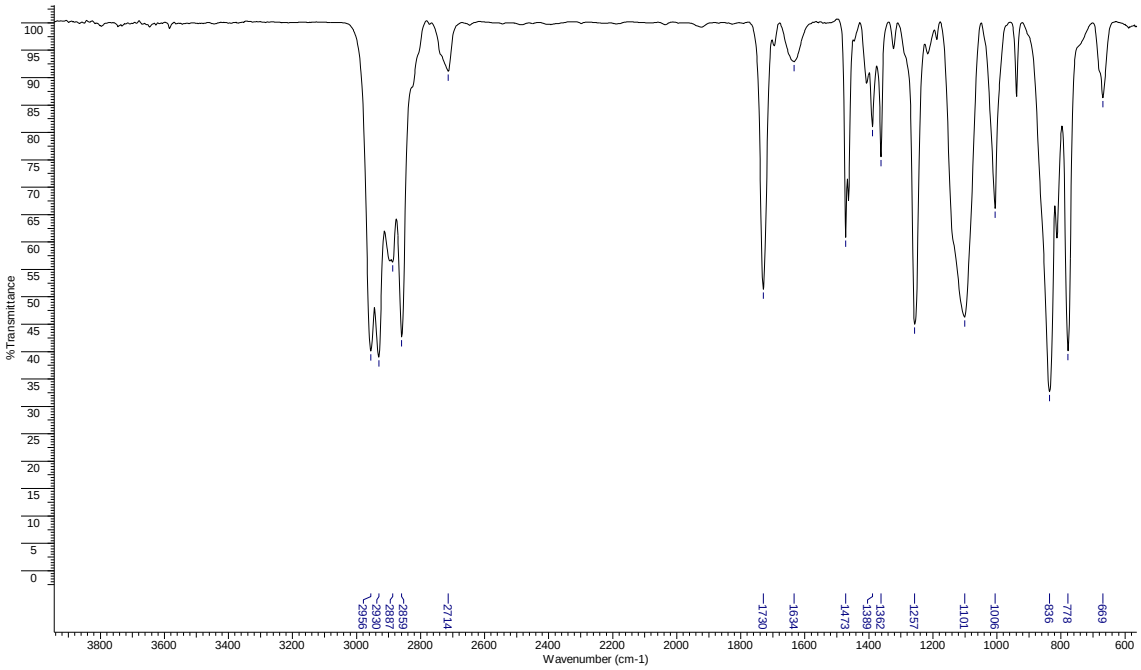


Figure S113: ^{13}C NMR (dept 135) spectrum of compound **14a** (125 MHz; $CDCl_3$).

Title	brasileiro de verão (GMT-2:00)	***Comment***	Amostra 010 por LQOS data segunda-feira, dezembro 02 2013		
Origin	brasileiro de verão (GMT-2:00)	***File Name***	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IV\EJR189_1.SP		
Date Stamp	mon dec 02 14:55:49 2013 Horário brasileiro de verão (GMT-2:00)			***Date***	mon dec 02 14:57:19 2013 Horário brasileiro de verão (GMT-2:00)
Technique	Infrared	***Instrument***	Spectrum Two	***Spectral Region***	IR
X Axis	Wavenumber (cm-1)	***Y Axis***	%Transmittance	***Spectrum Range***	550.0000 - 4000.0000
Points Count	3451	***Data Spacing***	1.0000		



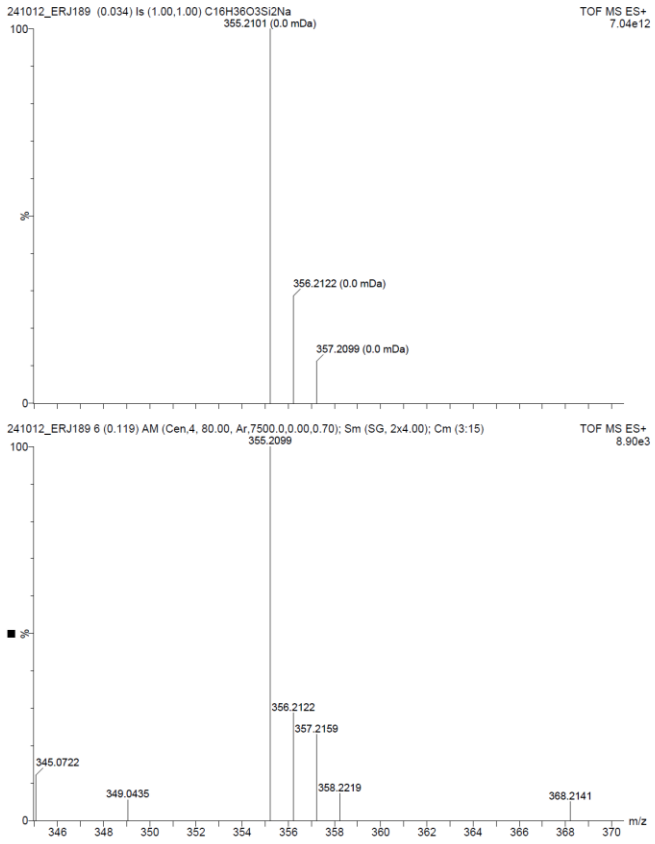


Figure S114: IR and HRMS (ESI TOF-MS) spectra of compound **14a**.

Acquisition Time (sec)	2.6564	***Date***	14 Oct 2013 15:48:00				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2013\out14ejrH1_001001r					***Frequency (MHz)***	600.17
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	32768	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	12335.53
Temperature (degree C)	27.000						

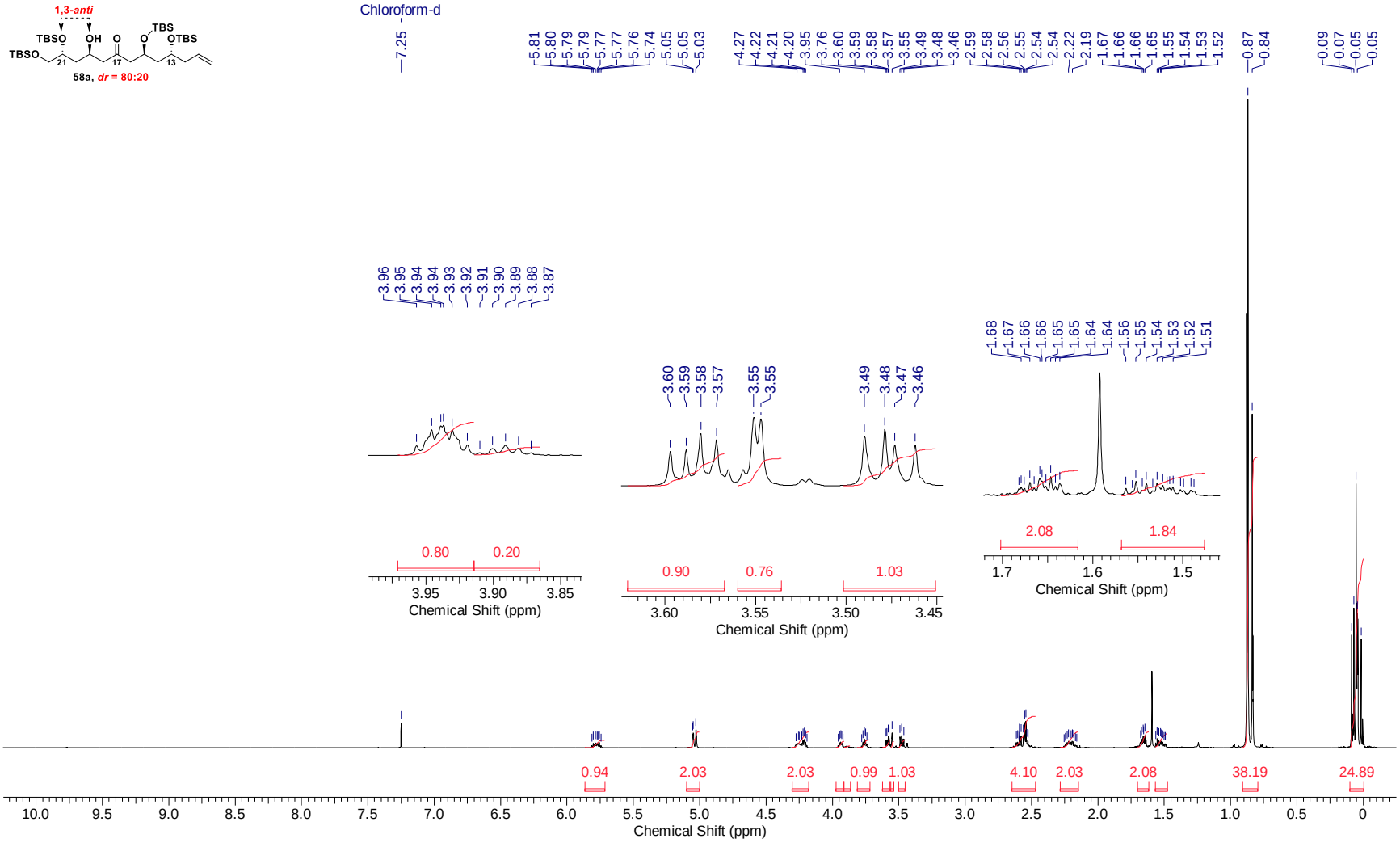


Figure S115: ^{1}H NMR spectrum of compound **58a** (600 MHz; $CDCl_3$).

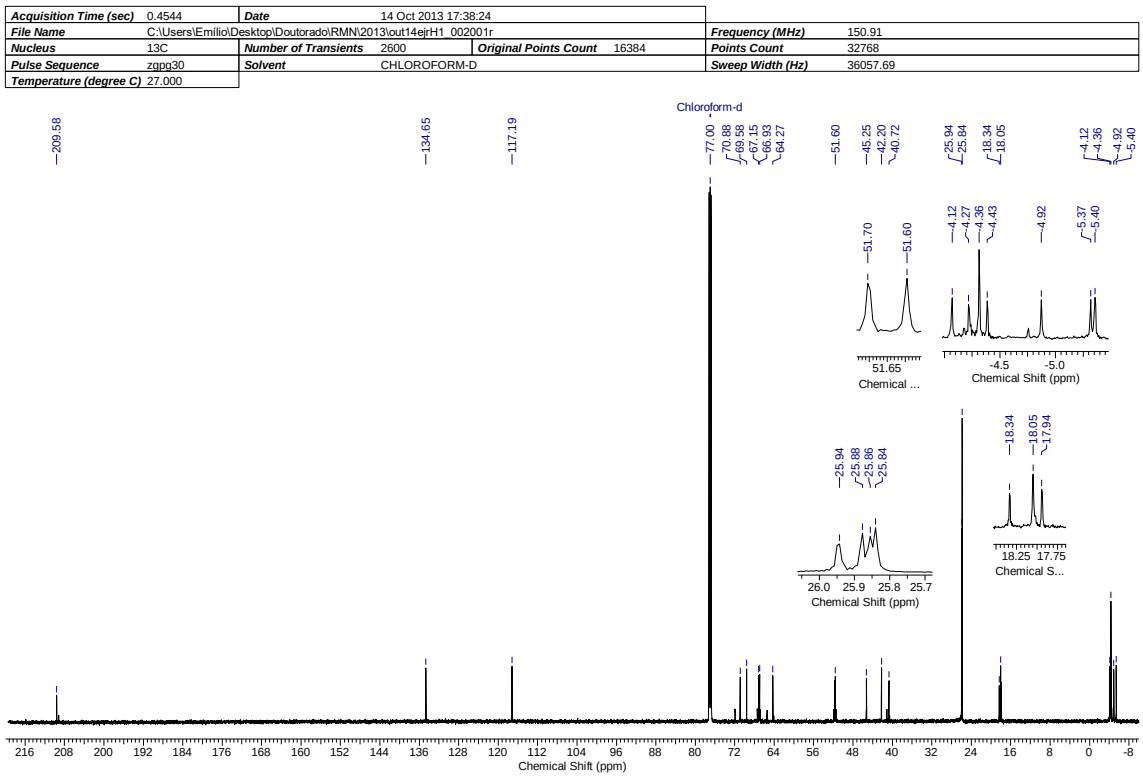


Figure S116: ^{13}C NMR spectrum of compound **58a** (150 MHz; $CDCl_3$).

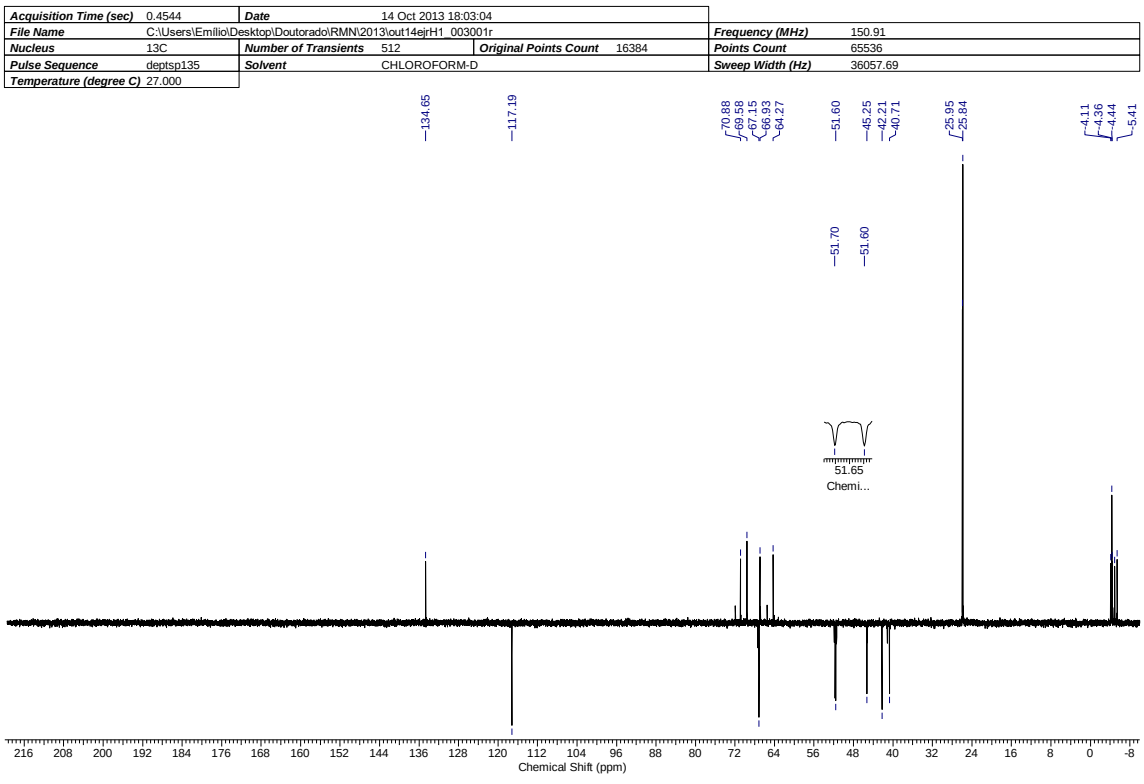
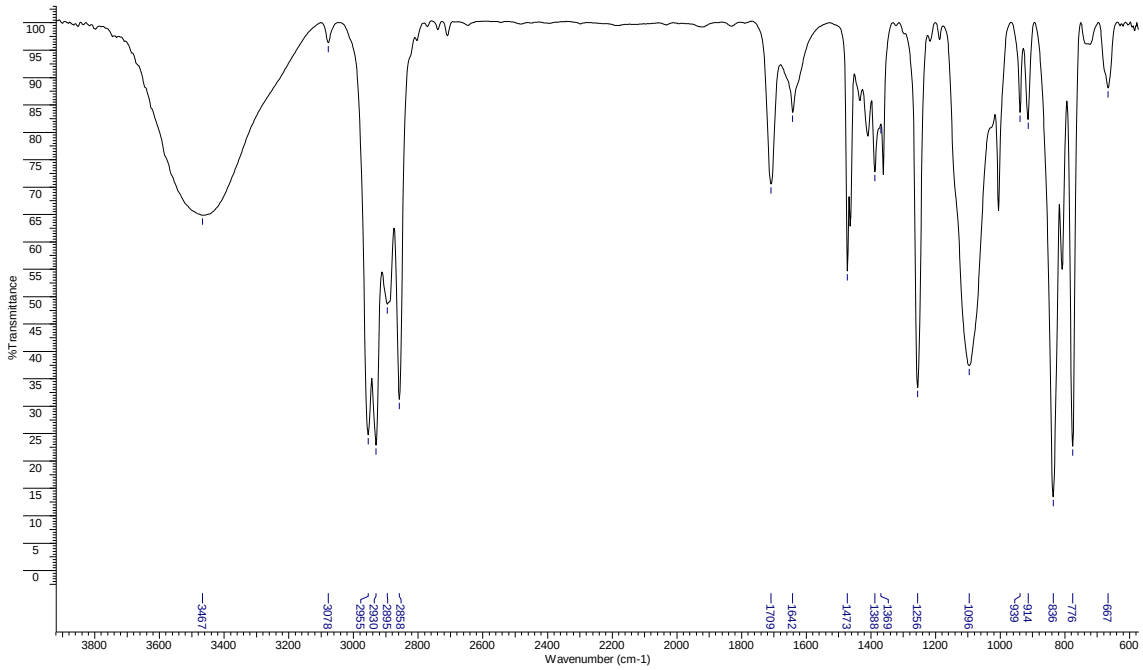


Figure S117: ^{13}C NMR (dept 135) spectrum of compound **58a** (150 MHz; $CDCl_3$).

Title	brasileiro de verão (GMT-2:00)	***Comment***	Amostra 011 por LQOS data segunda-feira, dezembro 02 2013		
Origin	brasileiro de verão (GMT-2:00)	***File Name***	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IV\EJR199P_1.SP		
Date Stamp	mon dec 02 17:36:03 2013 Horário brasileiro de verão (GMT-2:00)			***Date***	mon dec 02 17:36:59 2013 Horário brasileiro de verão (GMT-2:00)
Technique	Infrared	***Instrument***	Spectrum Two	***Spectral Region***	IR
X Axis	Wavenumber (cm-1)	***Y Axis***	%Transmittance	***Spectrum Range***	550.0000 - 4000.0000
Points Count	3451	***Data Spacing***	1.0000		



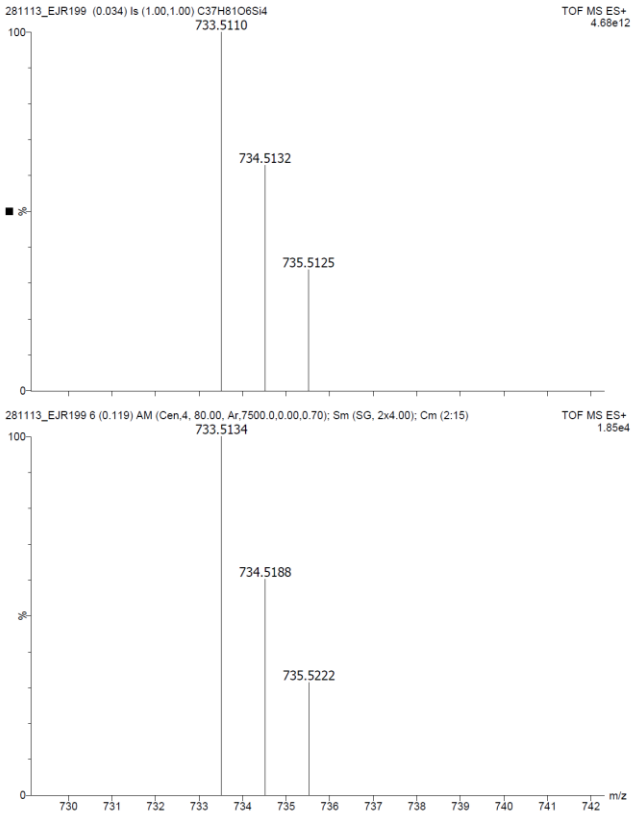


Figure S118: IR and HRMS (ESI TOF-MS) spectra of compound **58a**.

Acquisition Time (sec)	1.5903	***Date***	15 Oct 2013 18:40:54				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2013\out15ejrH1_001001r					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	10302.20
Temperature (degree C)	25.162						

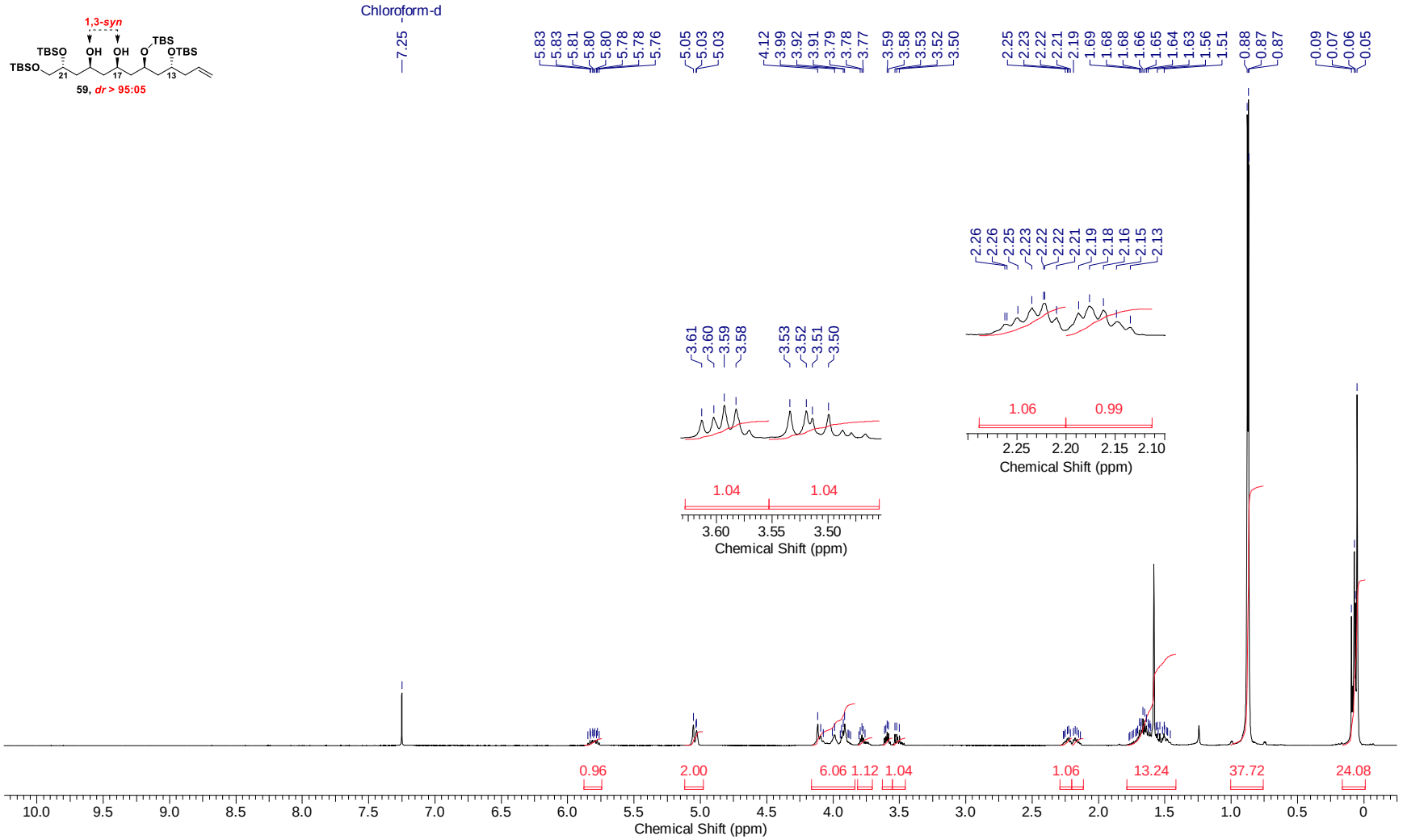


Figure S119: ^{1}H NMR spectrum of compound **59** (500 MHz; $CDCl_3$).

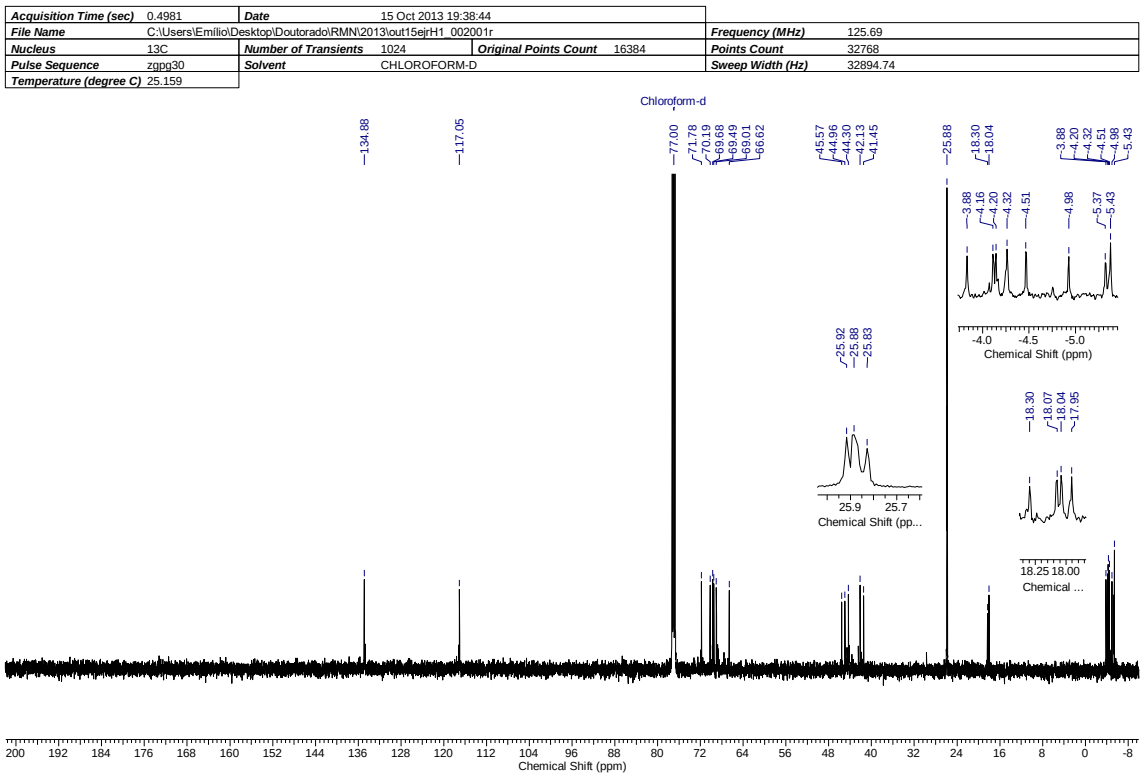


Figure S120: ^{13}C NMR spectrum of compound **59** (125 MHz; $CDCl_3$).

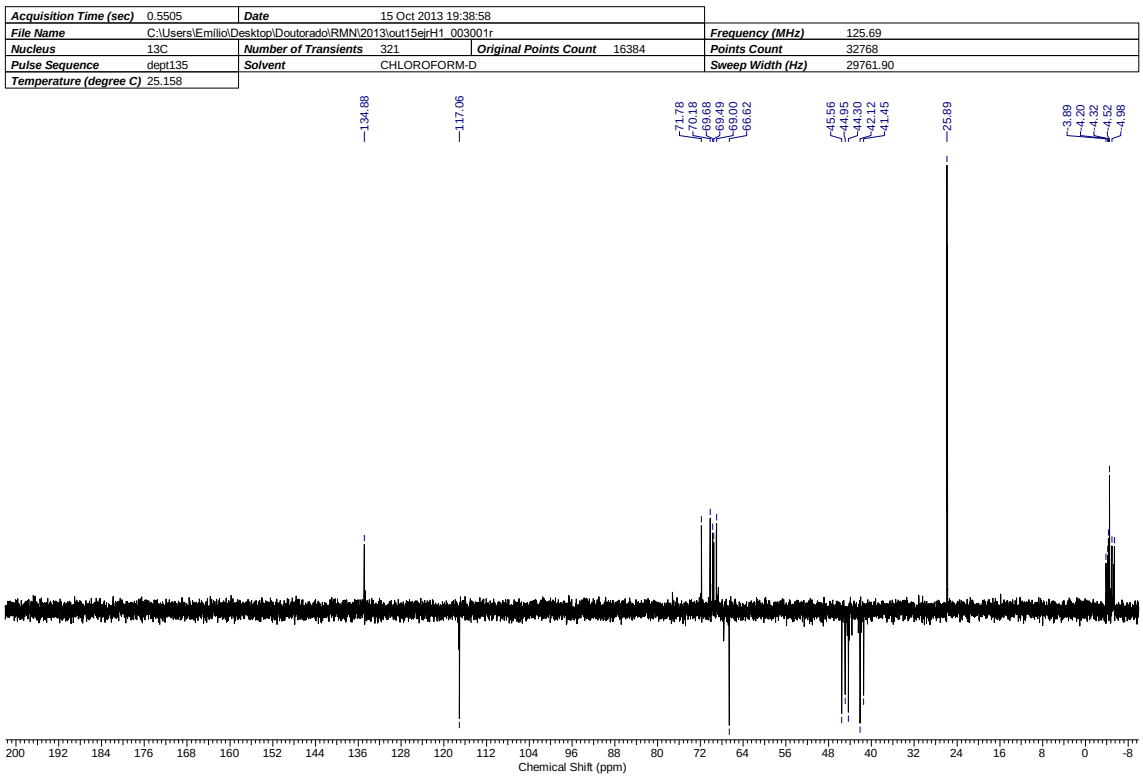


Figure S121: ^{13}C NMR (dept 135) spectrum of compound **59** (125 MHz; $CDCl_3$).

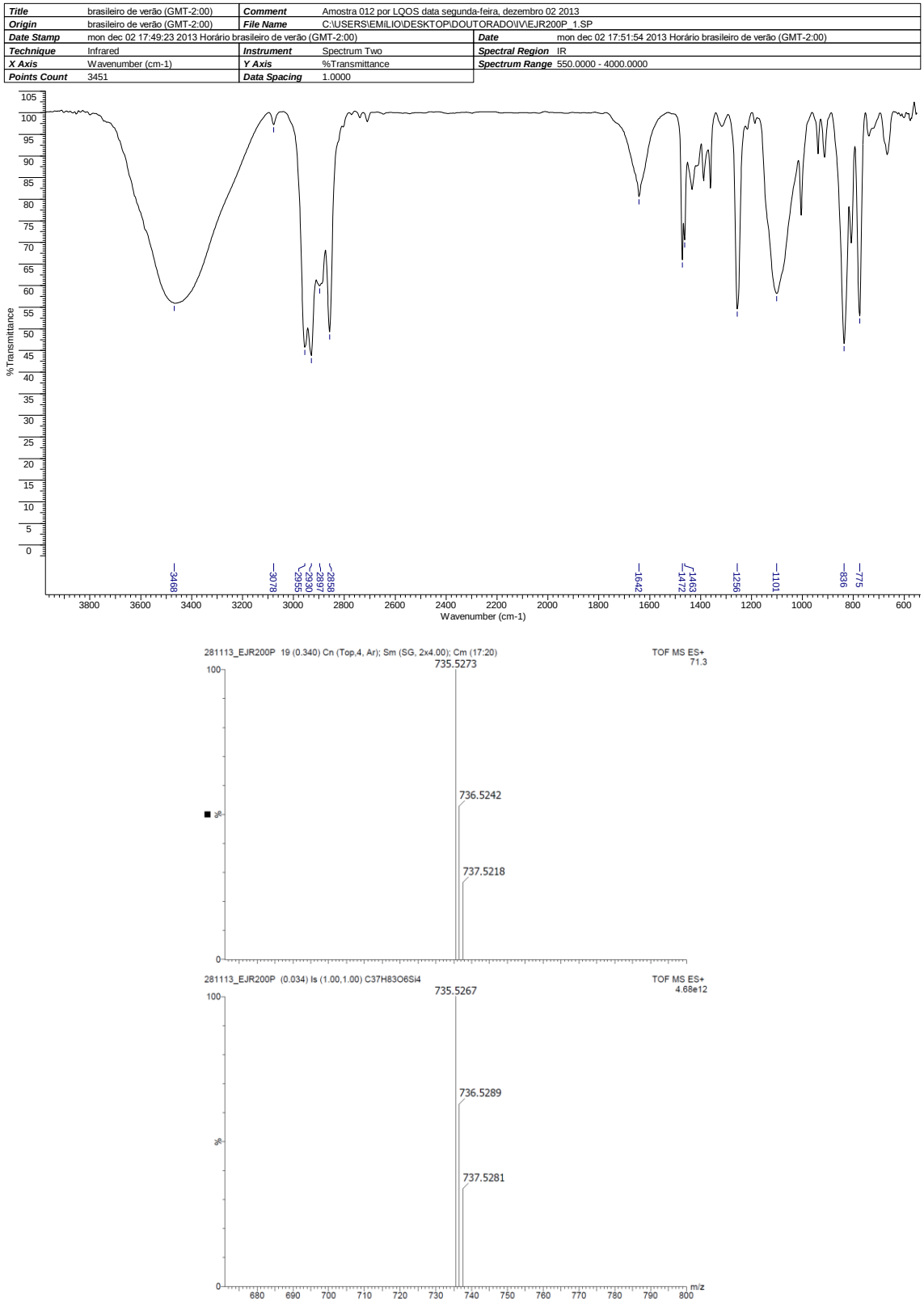


Figure S122: IR and HRMS (ESI TOF-MS) spectra of compound **59**.

Acquisition Time (sec)	2.6564	***Date***	17 Oct 2013 19:29:28				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2013\out17ejrH1_001001r					***Frequency (MHz)***	600.17
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	32768	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	12335.53
Temperature (degree C)	27.000						

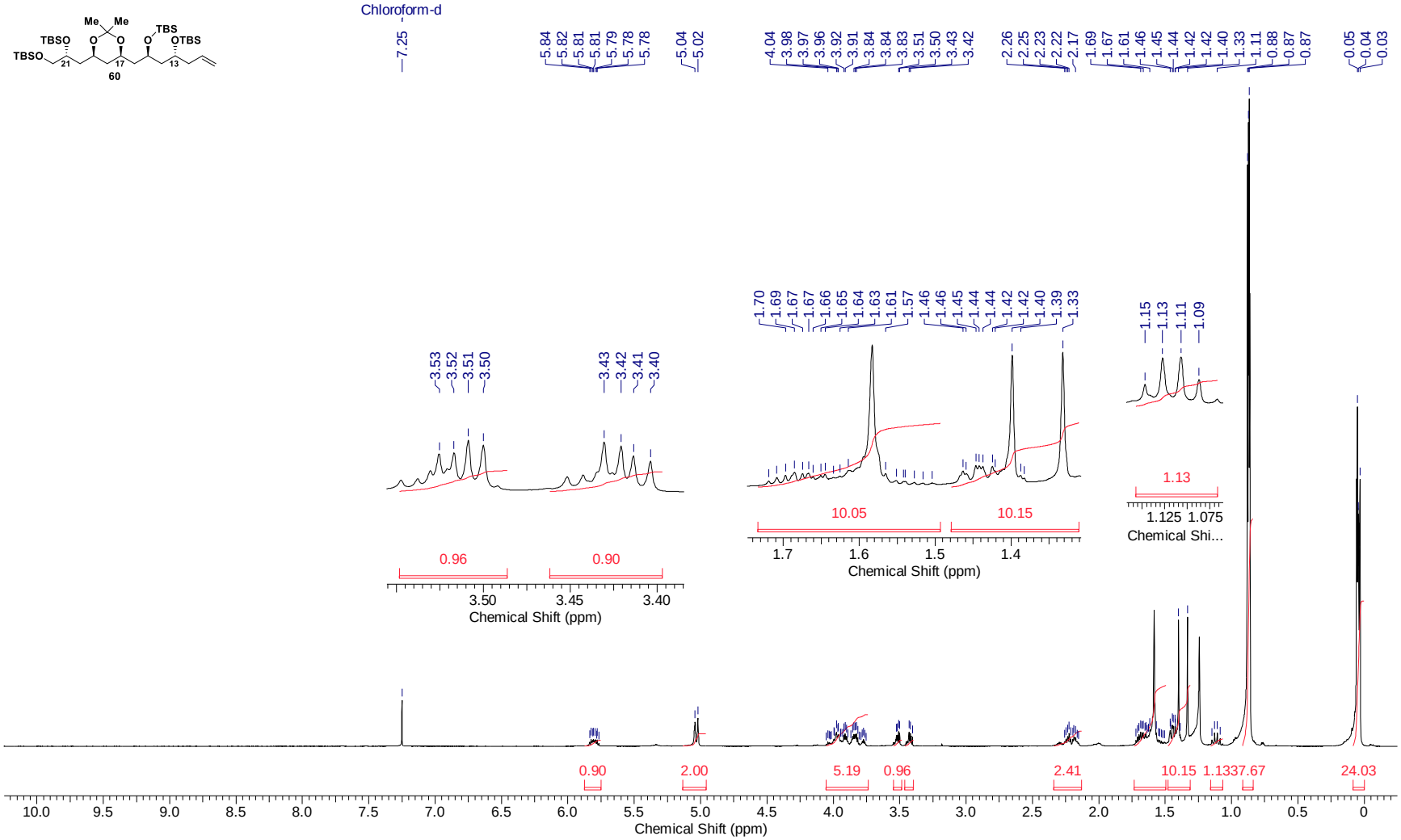


Figure S123: ^{1}H NMR spectrum of compound **60** (600 MHz; $CDCl_3$).

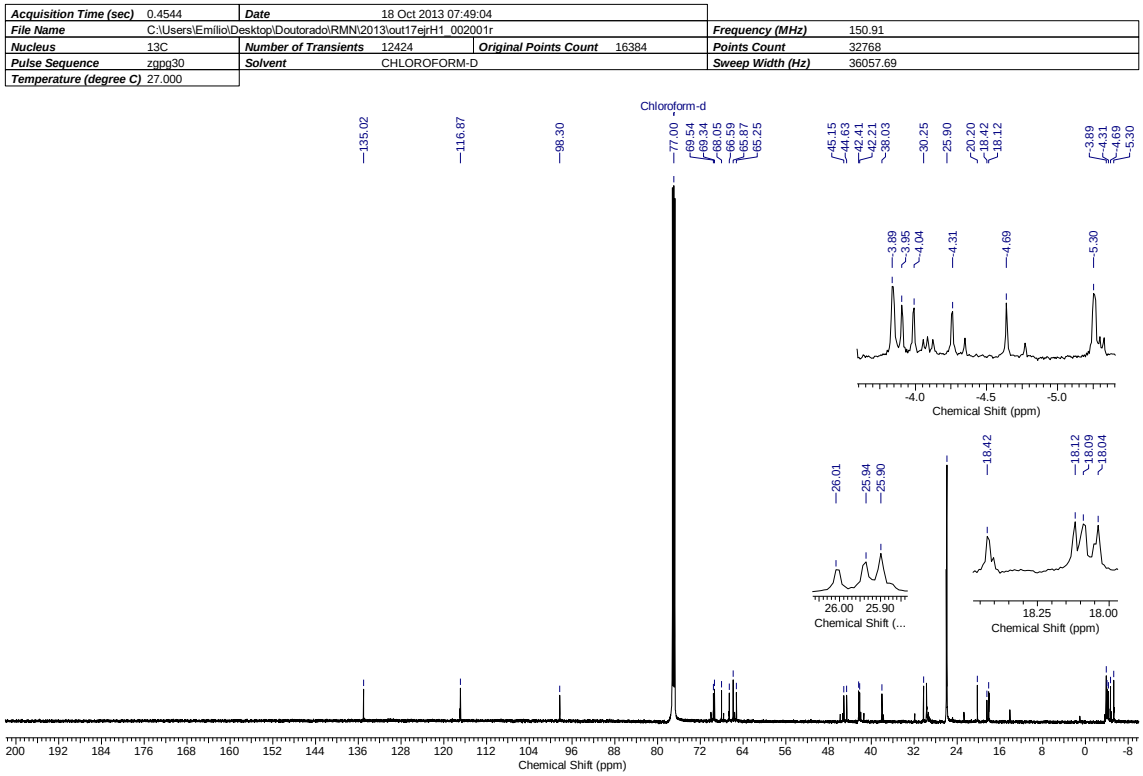


Figure S124: ^{13}C NMR spectrum of compound **60** (150 MHz; $CDCl_3$).

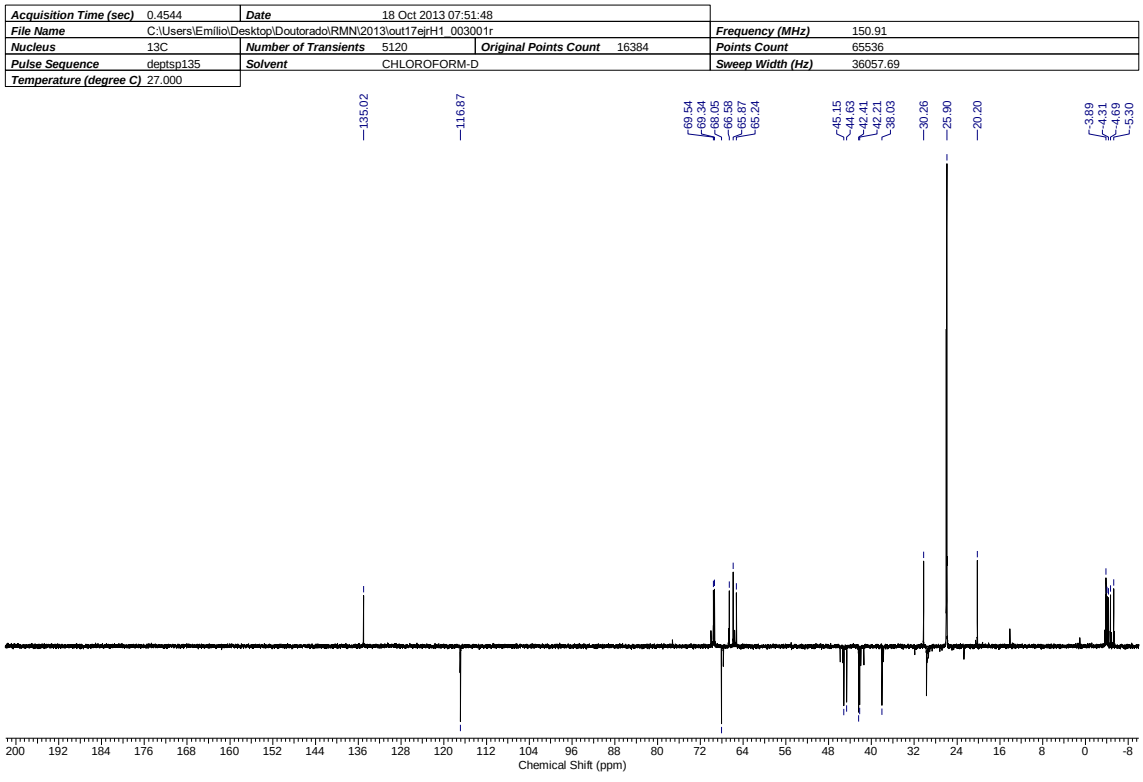
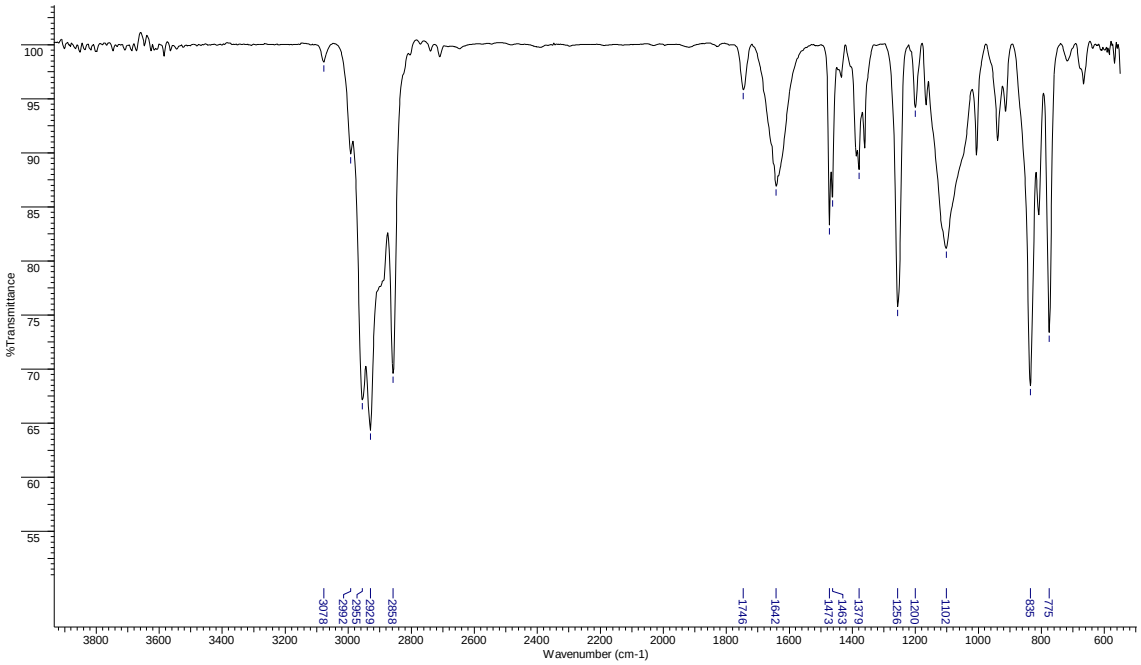


Figure S125: ^{13}C NMR (dept 135) spectrum of compound **60** (150 MHz; $CDCl_3$).

Title	brasileiro de verão (GMT-2:00)	***Comment***	Amostra 013 por LQOS data segunda-feira, dezembro 02 2013		
Origin	brasileiro de verão (GMT-2:00)	***File Name***	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IV\EJR202P_1.SP		
Date Stamp	mon dec 02 18:00:16 2013 Horário brasileiro de verão (GMT-2:00)			***Date***	mon dec 02 18:02:48 2013 Horário brasileiro de verão (GMT-2:00)
Technique	Infrared	***Instrument***	Spectrum Two	***Spectral Region***	IR
X Axis	Wavenumber (cm-1)	***Y Axis***	%Transmittance	***Spectrum Range***	550.0000 - 4000.0000
Points Count	3451	***Data Spacing***	1.0000		



B012 #49 RT: 0.81 AV: 1 NL: 2.22E5
T: FTMS + p ESI Full ms [150.00-1500.00]

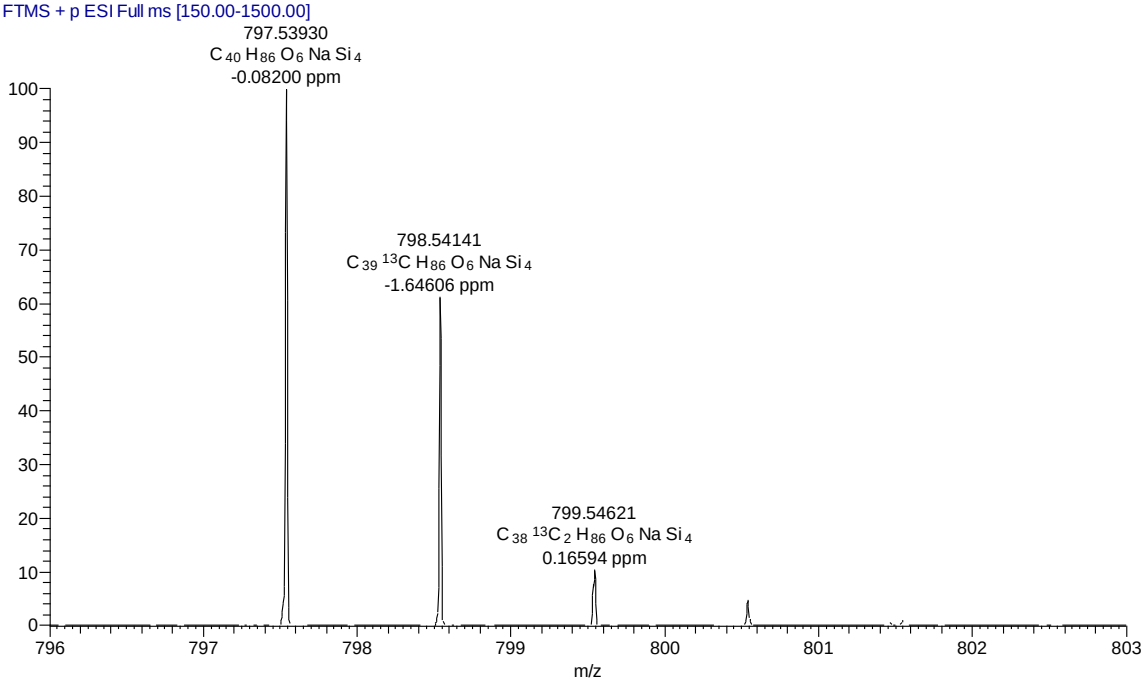


Figure S126: IR and HRMS (ESI FT-ICR-MS) spectra of compound **60**.

Acquisition Time (sec)	1.6384	***Comment***	Emilio - EJR 203 - CD3OD - Avance 500 MHz - fev13ejrH2 - 1H			***Date***	19 Feb 2015 06:53:48
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2015\fev13ejrH2_001001r			***Frequency (MHz)***	499.87	***Nucleus***	1H
Number of Transients	16	***Original Points Count***	16384	***Points Count***	65536	***Pulse Sequence***	zg30
Solvent	MeOD	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	25.140		

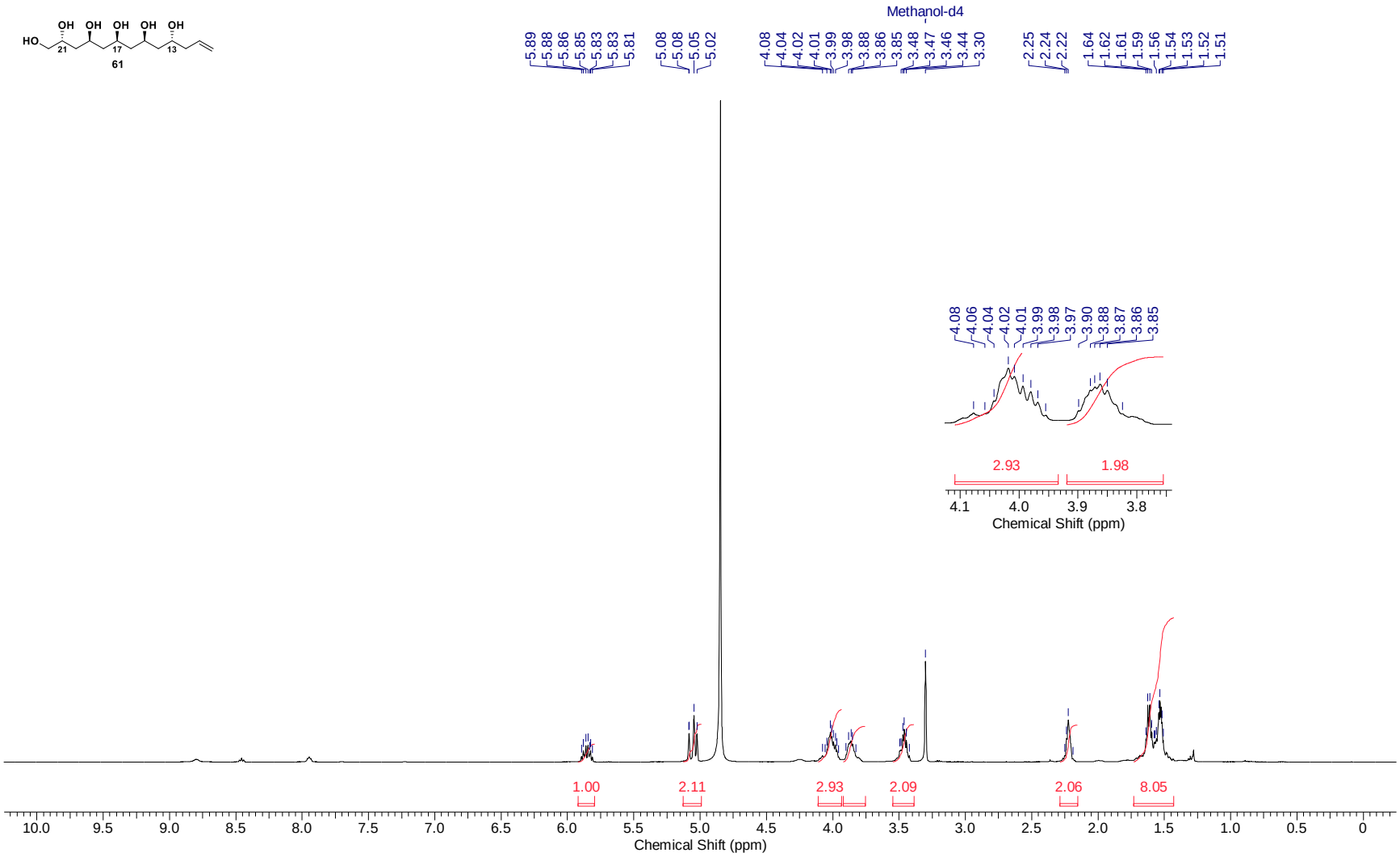


Figure S127: ^{1}H NMR spectrum of compound **61** (500 MHz; MeOD-d_4).

Acquisition Time (sec)	0.5505	***Comment***	Emilio - EJR 203 - CD3OD - Avance 500 MHz - fev13ejrH2 - 13C			***Date***	19 Feb 2015 06:53:42
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2015\fev13ejrH2_002001r			***Frequency (MHz)***	125.69	***Nucleus***	13C
Number of Transients	3072	***Original Points Count***	16384	***Points Count***	32768	***Pulse Sequence***	zgpg30
Solvent	MeOD	***Sweep Width (Hz)***	29761.90	***Temperature (degree C)***	25.149		

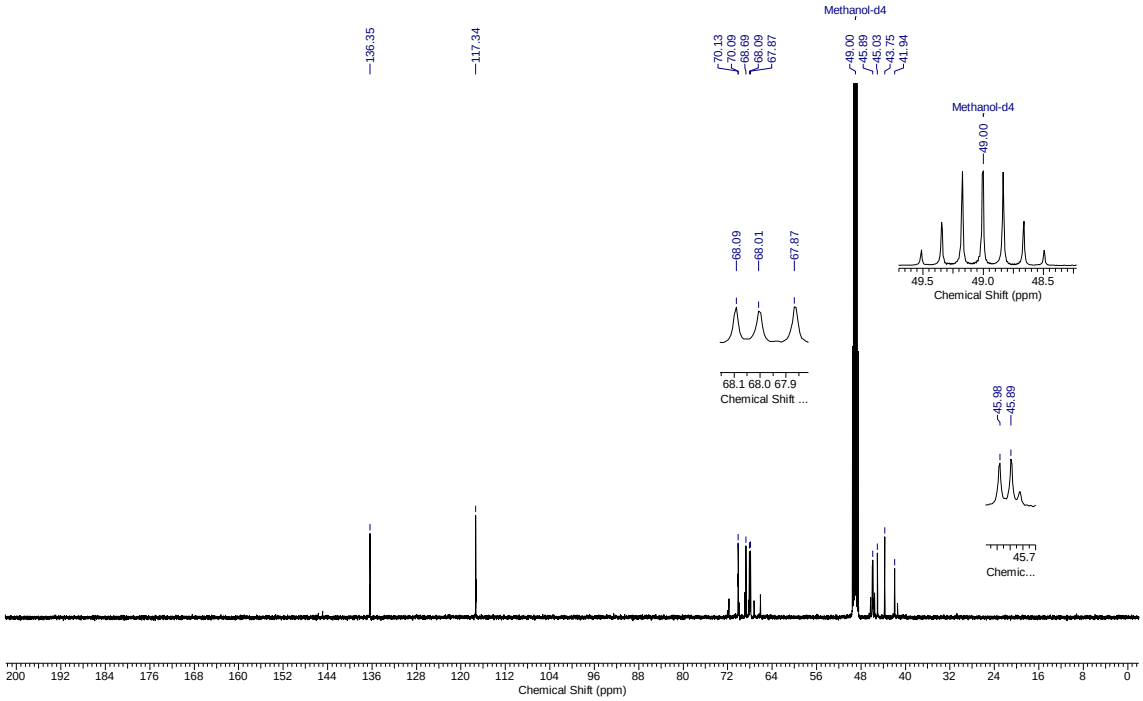


Figure S128: ^{13}C NMR spectrum of compound **61** (125 MHz; MeOD-*d*$_4$).

Acquisition Time (sec)	0.5505	***Comment***	Emilio - EJR 203 - CD3OD - Avance 500 MHz - fev13ejrH2 - DEPT 135				
Date	02 Apr 2015 13:20:42			***File Name***	C:\Users\Emilio\Desktop\Doutorado\RMN\2015\fev13ejrH2_003001r		
Frequency (MHz)	125.69	***Nucleus***	13C	***Number of Transients***	1024	***Original Points Count***	16384
Points Count	32768	***Pulse Sequence***	dept135	***Solvent***	MeOD	***Sweep Width (Hz)***	29761.90
Temperature (degree C)	25.149						

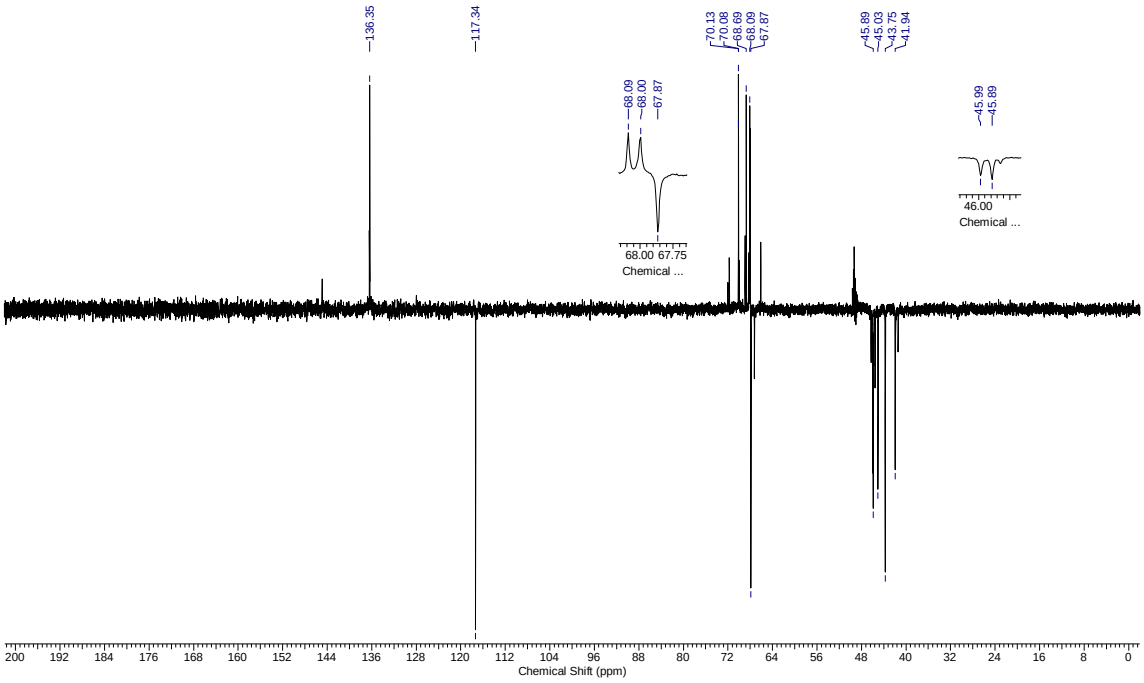


Figure S129: ^{13}C NMR (dept 135) spectrum of compound **61** (125 MHz; MeOD-*d*$_4$).

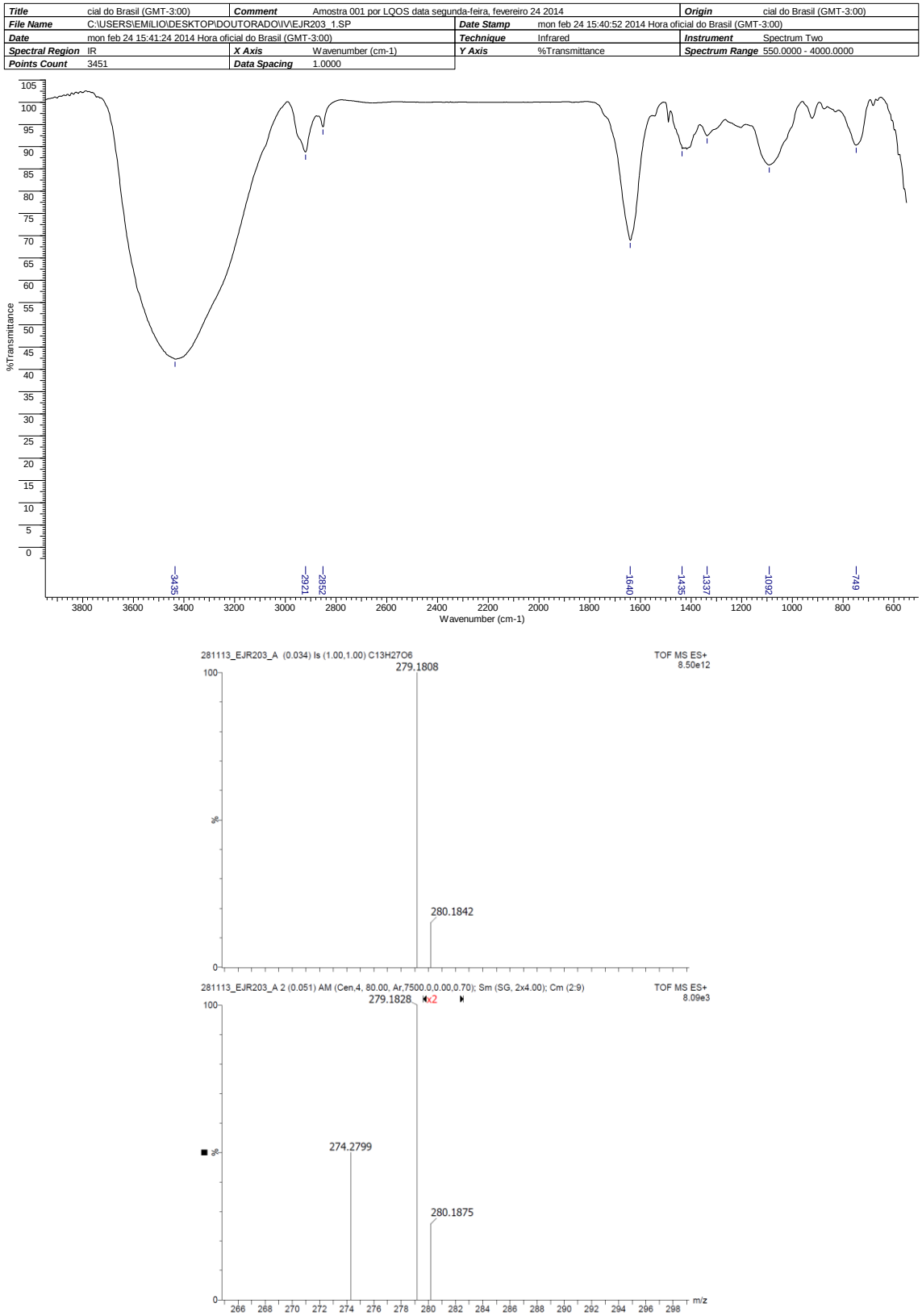


Figure S130: IR and HRMS (ESI TOF-MS) spectra of compound **61**.

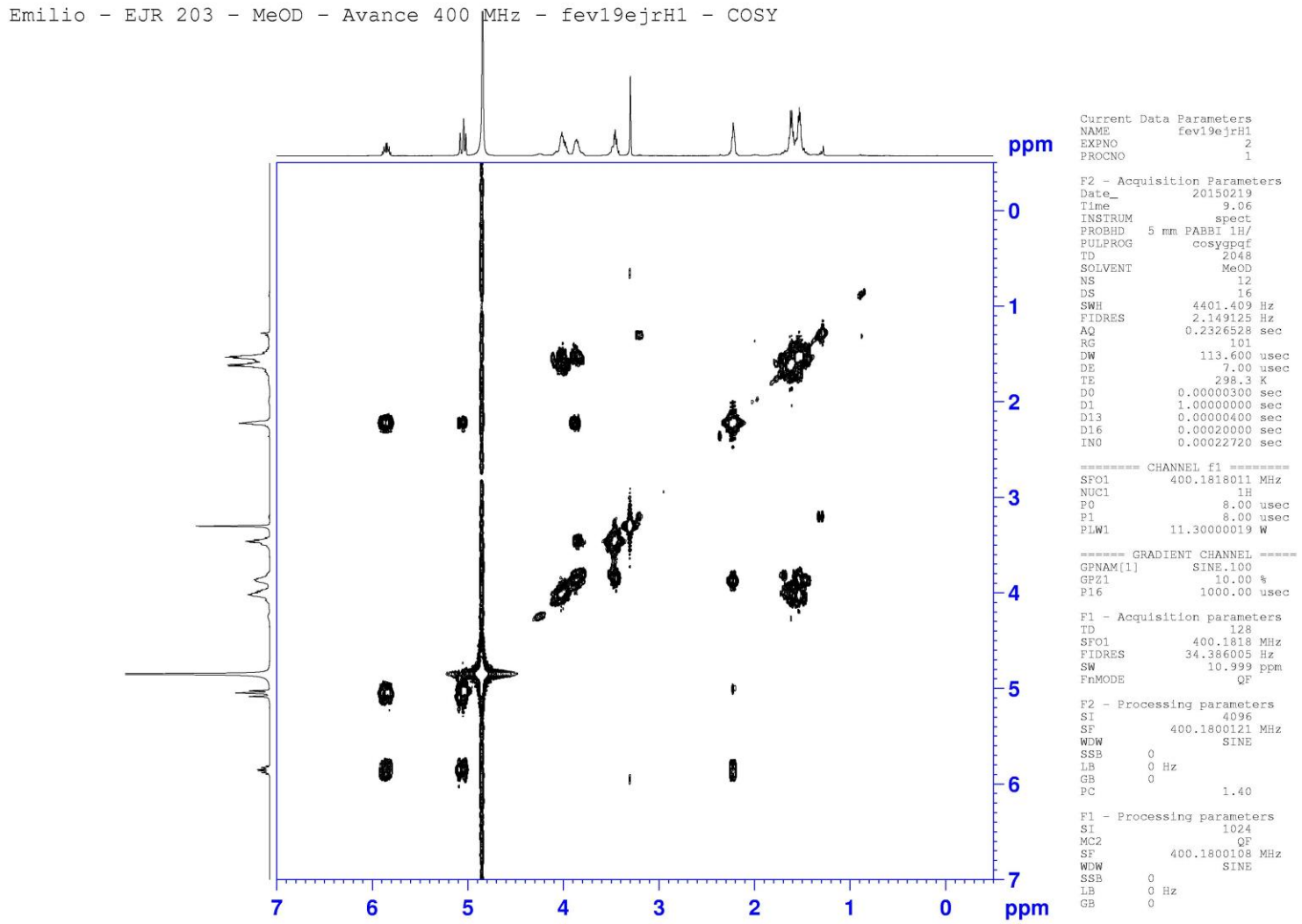


Figure S131: COSY contour map of compound **61** (400 MHz; MeOD-d_4).

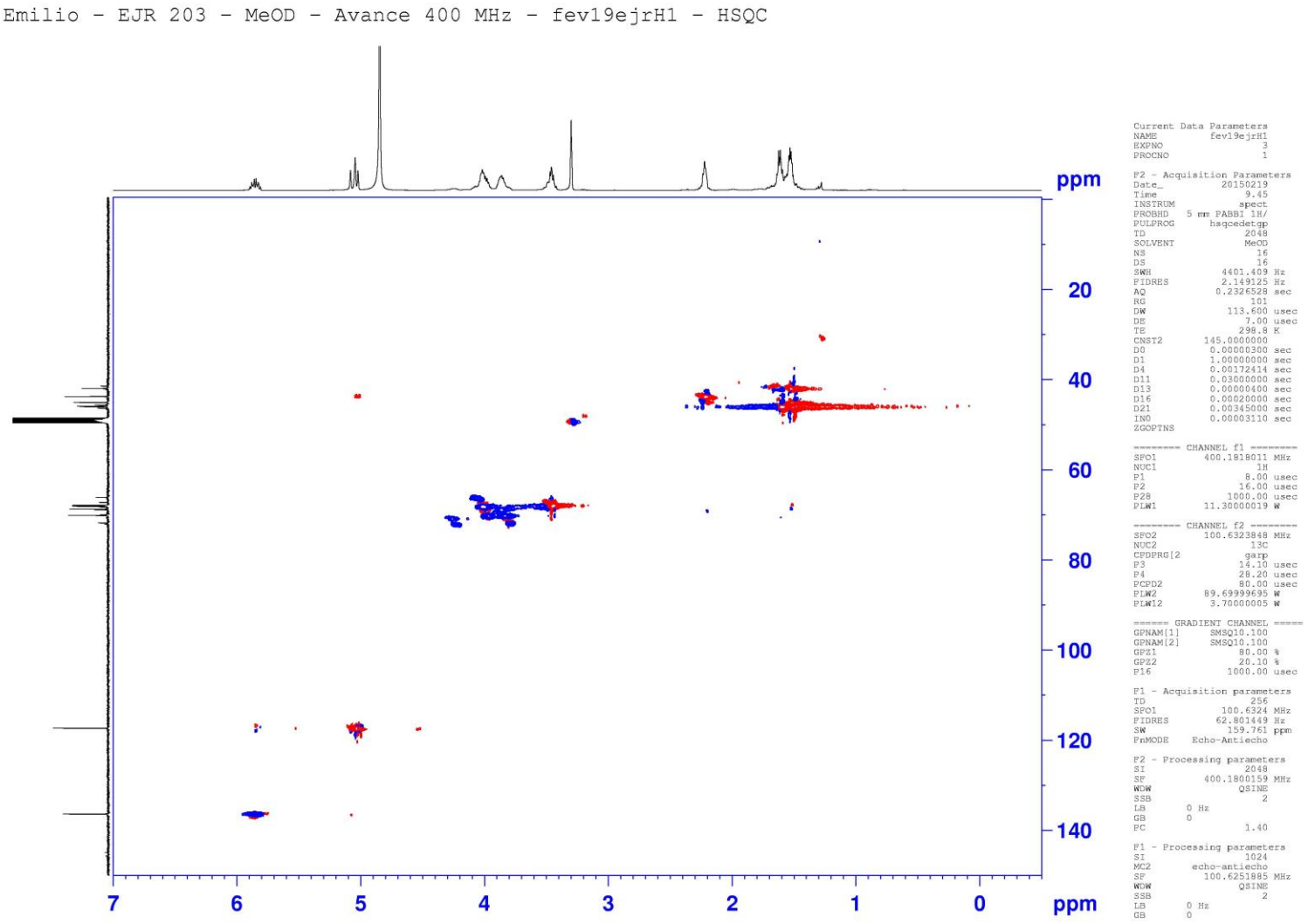


Figure S132: HSQC contour map of compound **61**.

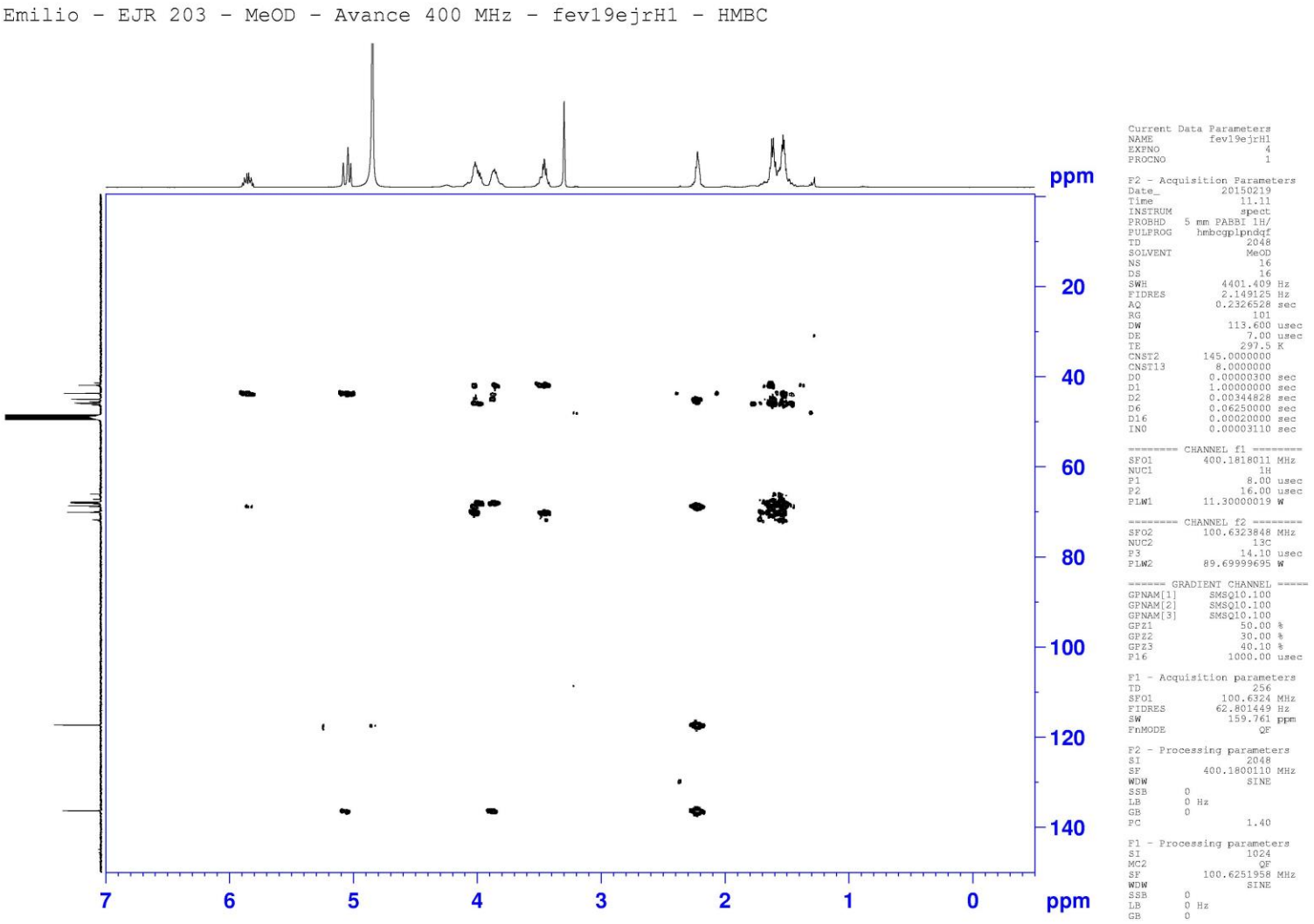


Figure S133: HMBC contour map of compound **61**.

Acquisition Time (sec)	1.6384	***Comment***	Emilio - EJR 326 P - CDCl3 - Avance 500 MHz - ago05ejrH1 - 1H			***Date***	05 Aug 2014 11:37:36
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2014\ago05ejrH1_001001r			***Frequency (MHz)***	499.87	***Nucleus***	1H
Number of Transients	16	***Original Points Count***	16384	***Points Count***	65536	***Pulse Sequence***	zg30
Solvent	CHLOROFORM-D	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	25.161		

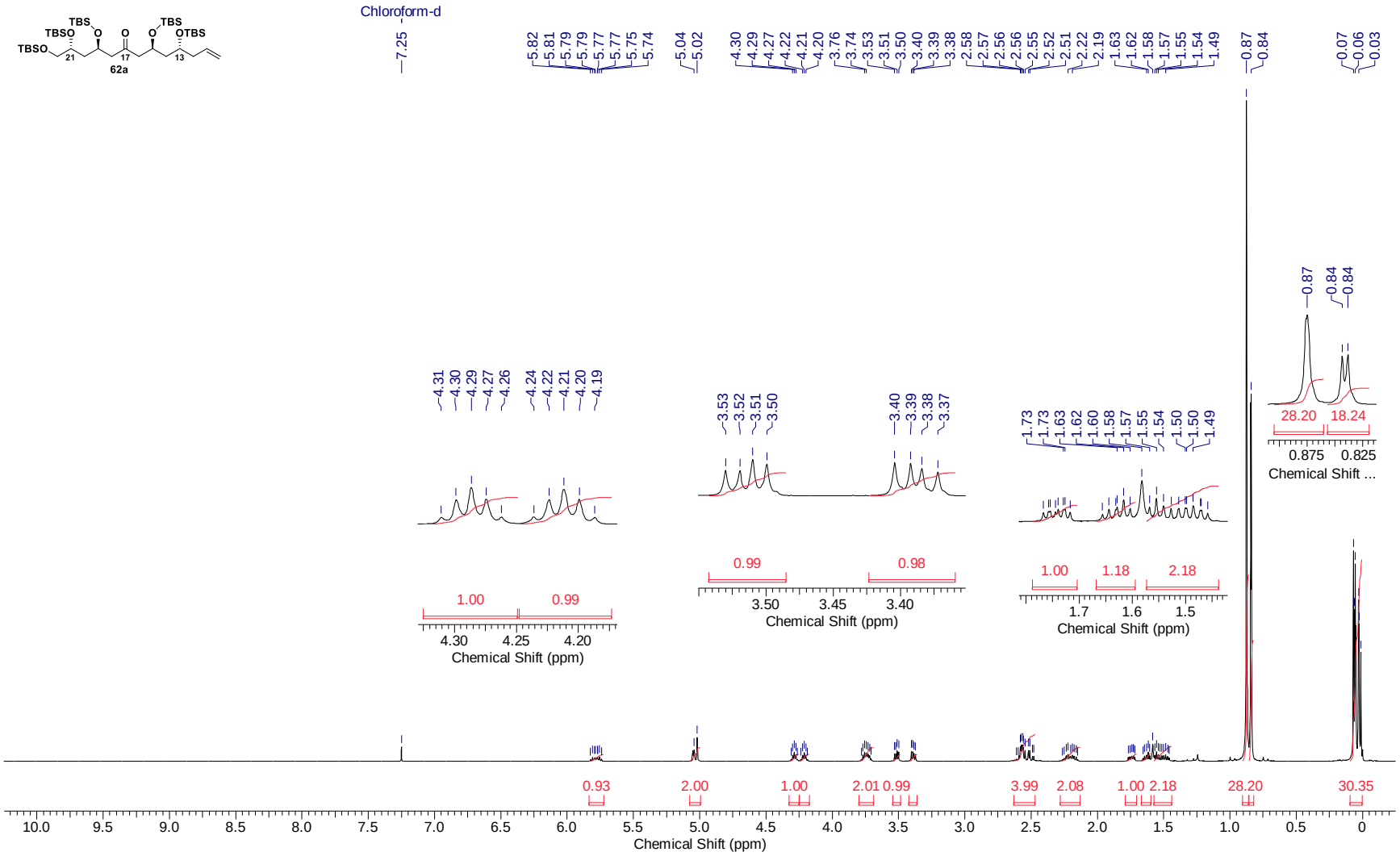


Figure S134: ^{1}H NMR spectrum of compound **62a** (500 MHz; $CDCl_3$).

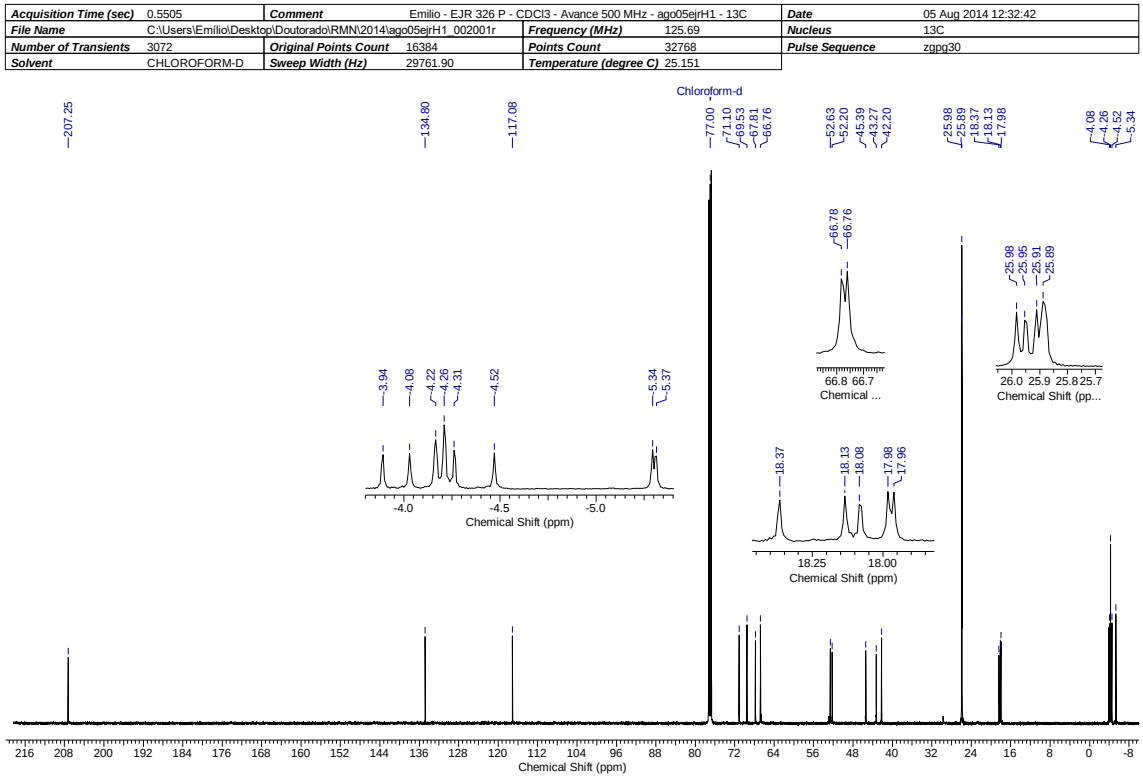


Figure S135: ^{13}C NMR spectrum of compound **62a** (125 MHz; $CDCl_3$).

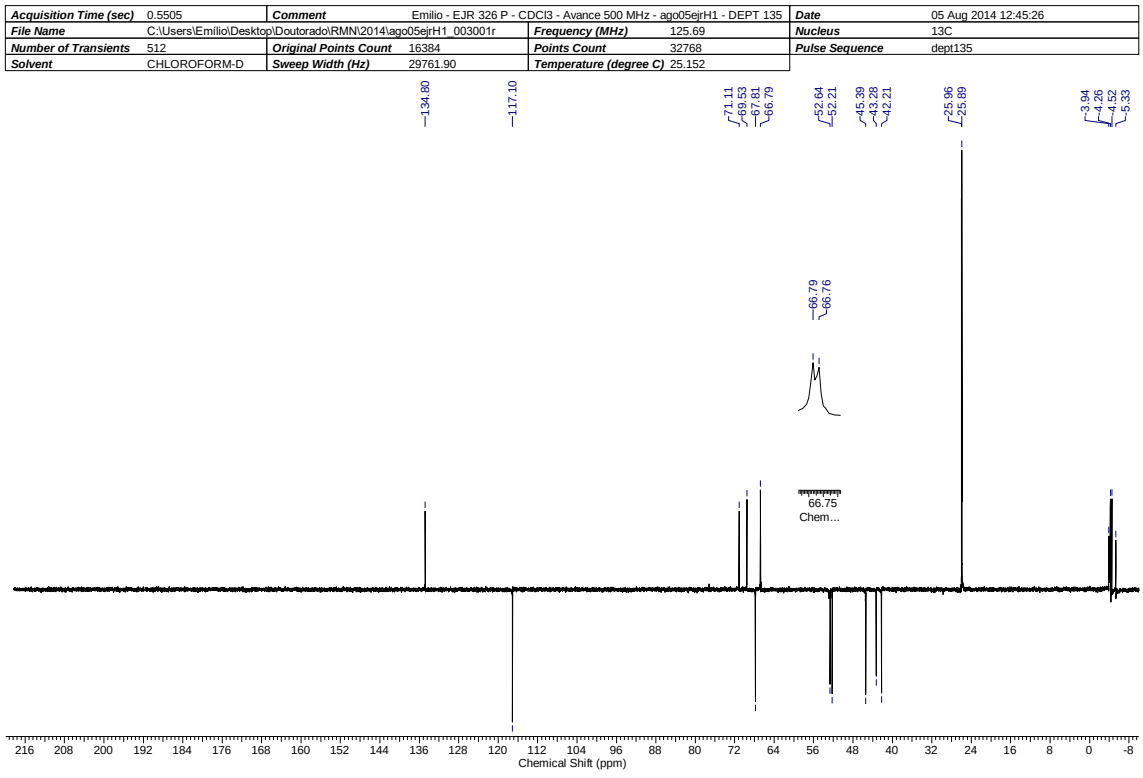
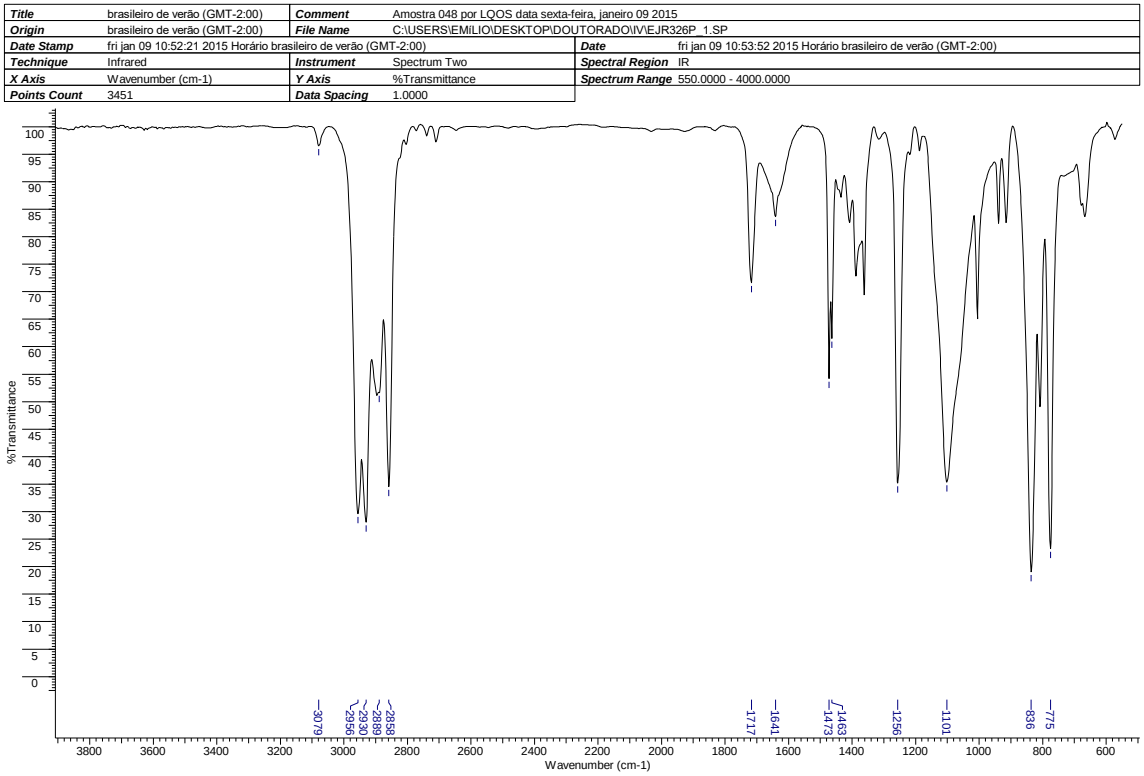


Figure S136: ^{13}C NMR (dept 135) spectrum of compound **62a** (125 MHz; $CDCl_3$).



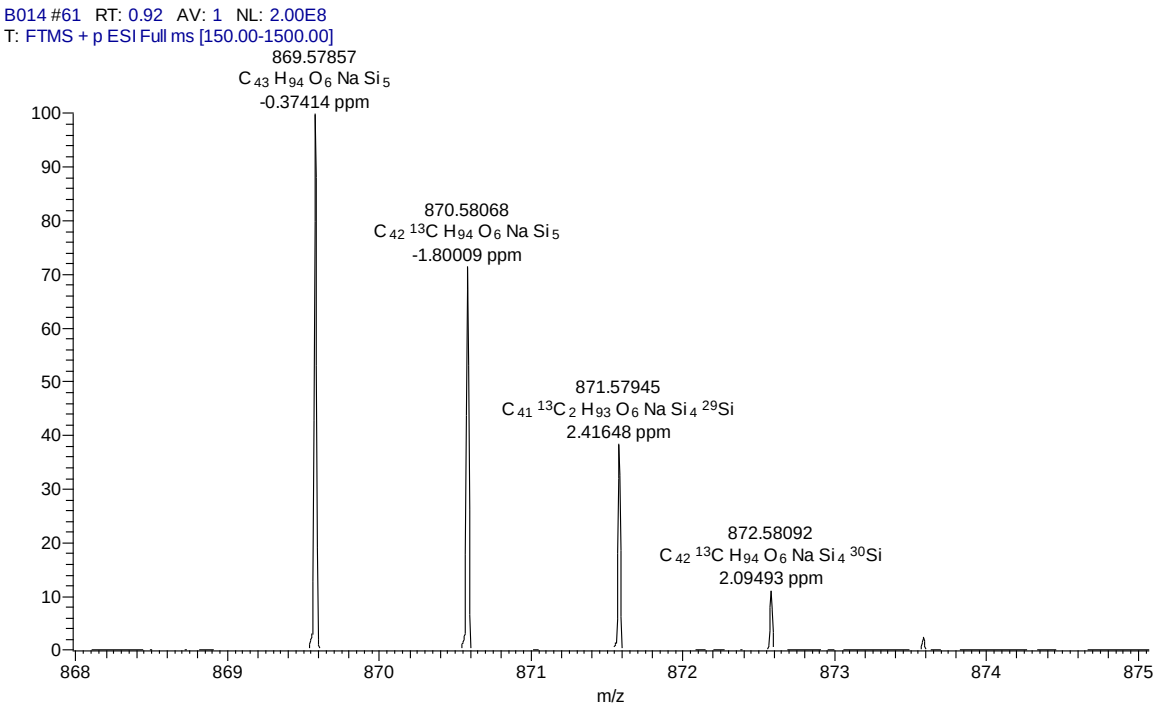


Figure S137: IR and HRMS (ESI FT-ICR-MS) spectra of compound **62a**.

Acquisition Time (sec)	1.6384	***Comment***	dez13ejrH1 2013 500MHz EJR227P			***Date***	13 Dec 2013 13:16:12
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2013\dez13ejrH1_001001r					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	10000.00
Temperature (degree C)	25.136						

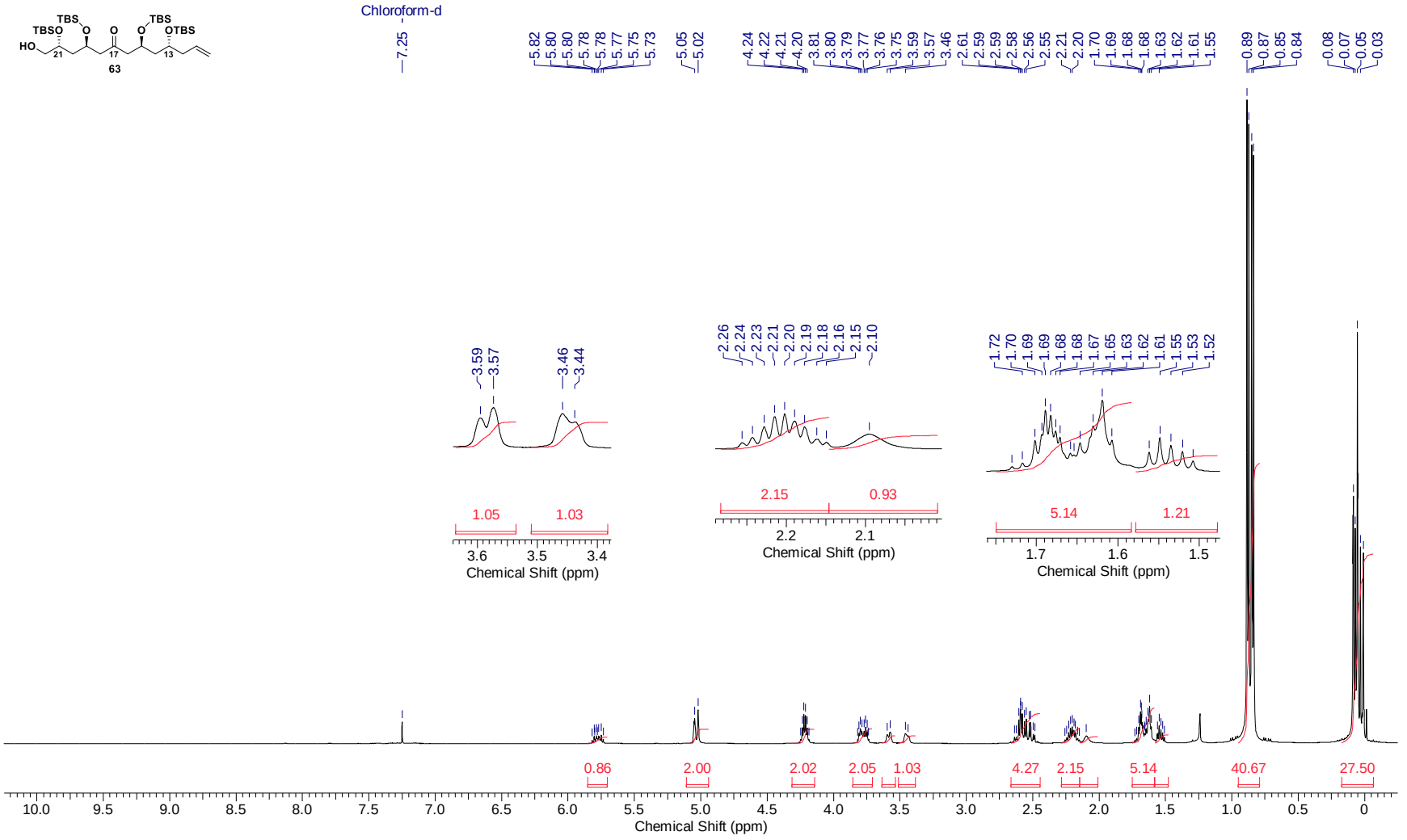


Figure S138: ^{1}H NMR spectrum of compound **63** (500 MHz; $CDCl_3$).

Acquisition Time (sec)	0.5505	***Comment***	Emilio -EJR 227 P - CDCl3 - Avance 500 MHz - dez13ejrH1 - 13C	***Date***	13 Dec 2013 17:05:38
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2013\dez13ejrC1_001001r	***Frequency (MHz)***	125.69	***Nucleus***	13C
Number of Transients	720	***Original Points Count***	16384	***Points Count***	32768	***Pulse Sequence***	zgpg30
Solvent	CHLOROFORM-D	***Sweep Width (Hz)***	29761.90	***Temperature (degree C)***	25.142		

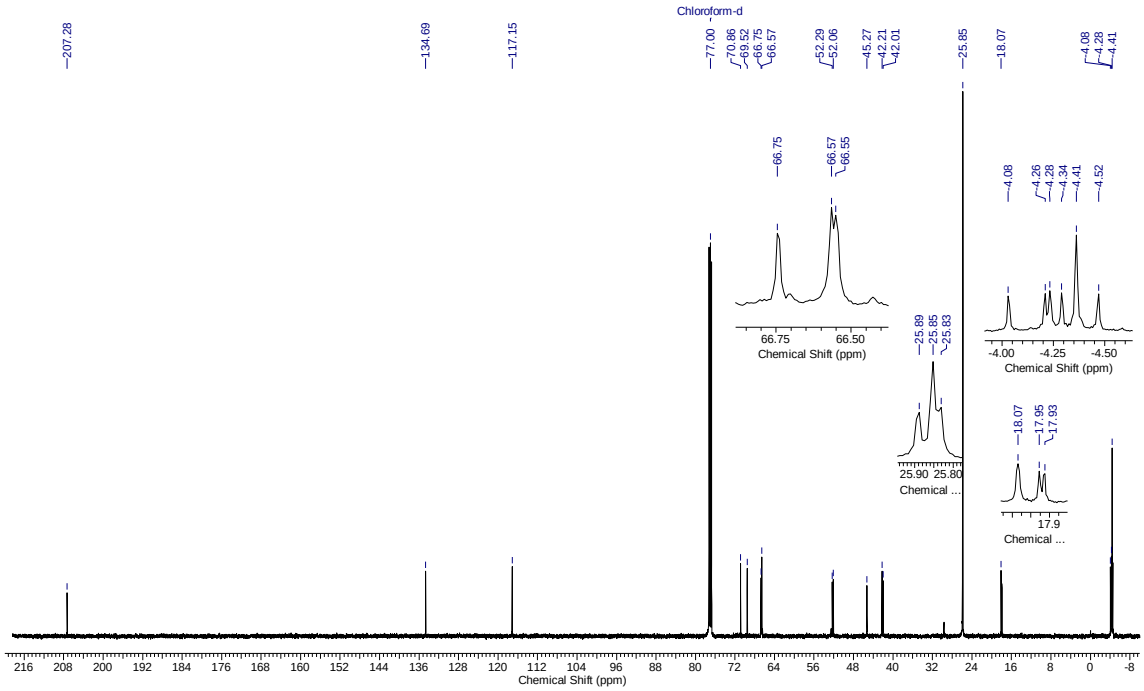


Figure S139: ^{13}C NMR spectrum of compound **63** (125 MHz; $CDCl_3$).

Acquisition Time (sec)	0.5505	***Comment***	Emilio -EJR 227 P - CDCl3 - Avance 500 MHz - dez13ejrH1 - DEPT 135	***Date***	13 Dec 2013 17:05:50
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2013\dez13ejrC1_002001r	***Frequency (MHz)***	125.69	***Nucleus***	13C
Number of Transients	128	***Original Points Count***	16384	***Points Count***	32768	***Pulse Sequence***	dept135
Solvent	CHLOROFORM-D	***Sweep Width (Hz)***	29761.90	***Temperature (degree C)***	25.161		

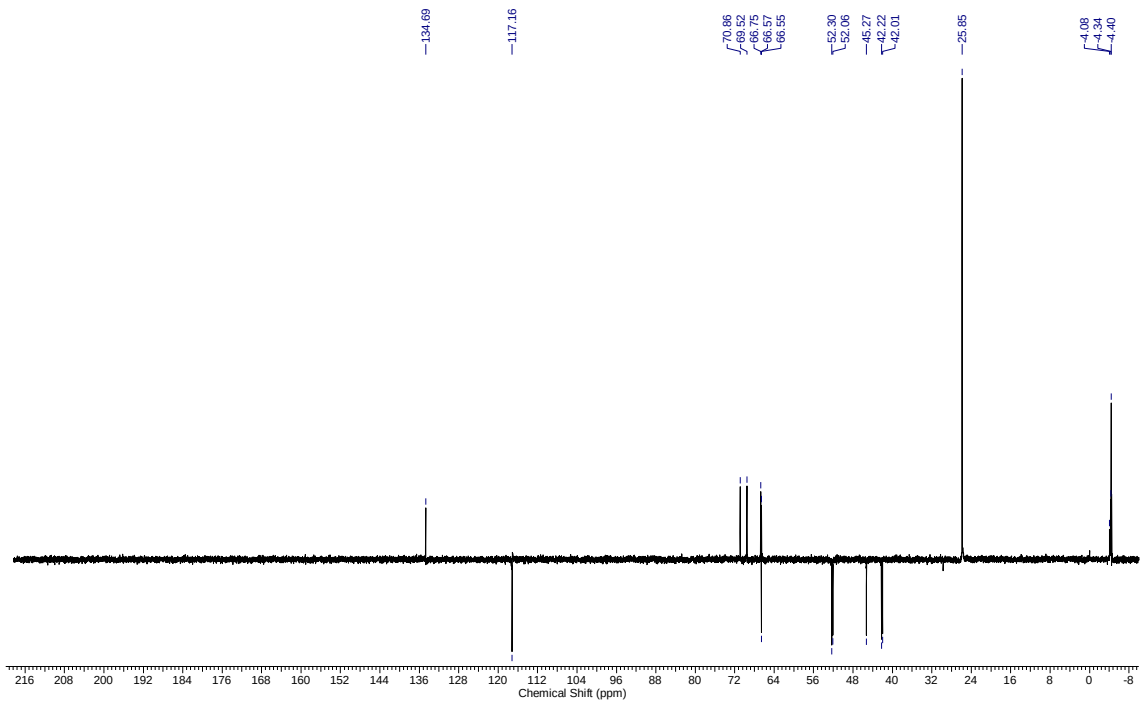
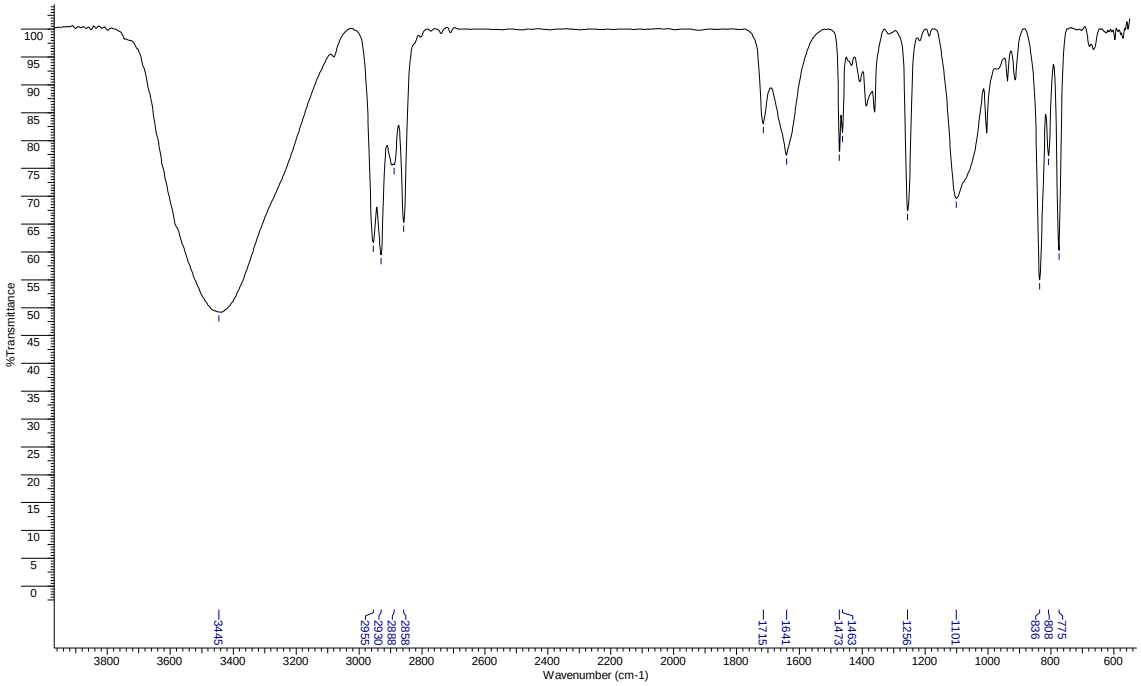


Figure S140: ^{13}C NMR (dept 135) spectrum of compound **63** (125 MHz; $CDCl_3$).

Title	cial do Brasil (GMT-3:00)	***Comment***	Amostra 010 por LQOS data segunda-feira, fevereiro 24 2014			***Origin***	cial do Brasil (GMT-3:00)
File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IV\EJR227P_1.SP			***Date Stamp***	mon feb 24 13:42:08 2014 Hora oficial do Brasil (GMT-3:00)		
Date	mon feb 24 13:43:06 2014 Hora oficial do Brasil (GMT-3:00)			***Technique***	Infrared	***Instrument***	Spectrum Two
Spectral Region	IR	***X Axis***	Wavenumber (cm-1)	***Y Axis***	%Transmittance	***Spectrum Range***	550.0000 - 4000.0000
Points Count	3451	***Data Spacing***	1.0000				



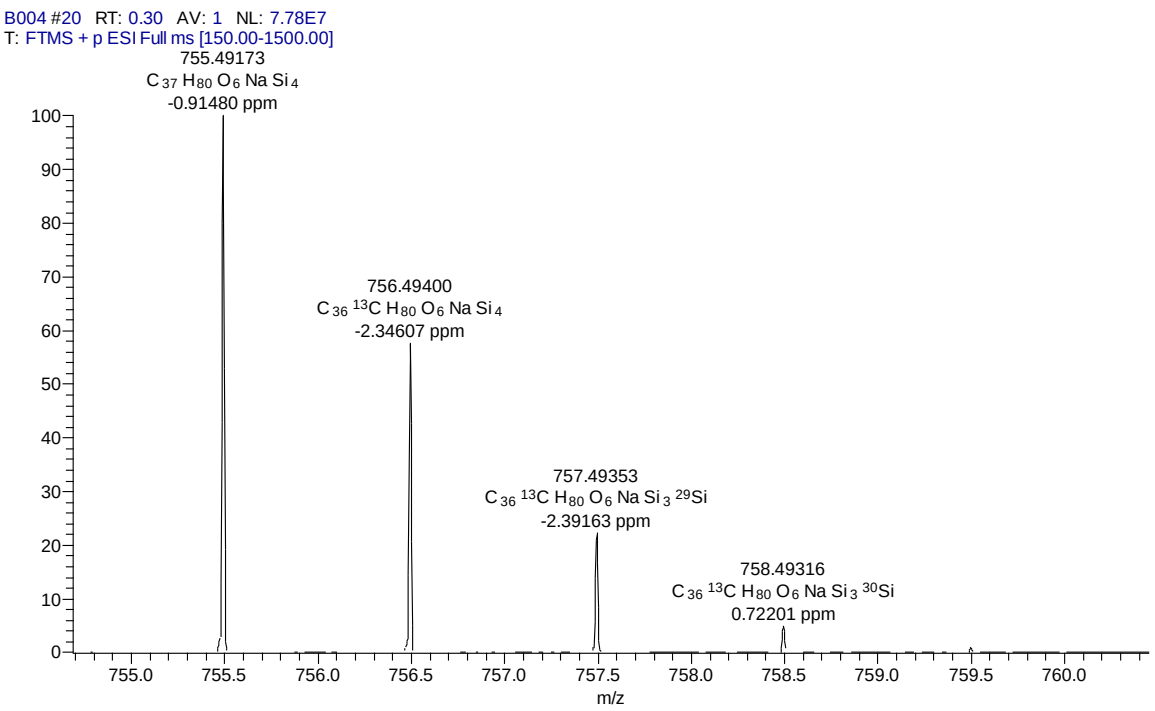


Figure S141: IR and HRMS (ESI FT-ICR-MS) spectra of compound **63**.

Acquisition Time (sec)	1.6384	***Comment***	Emilio "EJR-222" c6d6/ Av500MHz dez17ejrH1			***Date***	18 Dec 2013 07:17:02
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2013\dez17ejrH1_001001r					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	BENZENE-D6	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	25.149

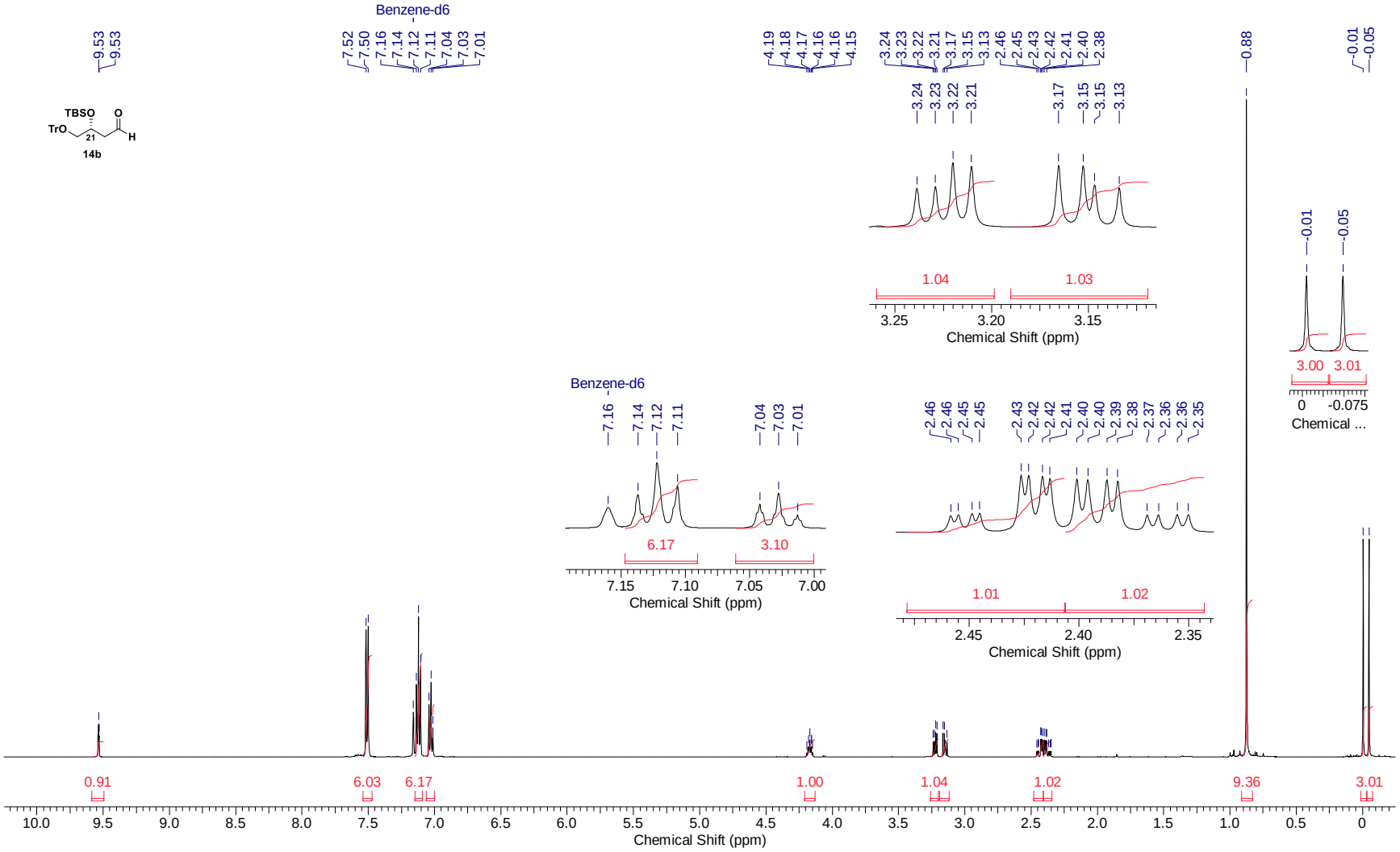


Figure S142: ^{1}H NMR spectrum of compound **14b** (500 MHz; C_6D_6).

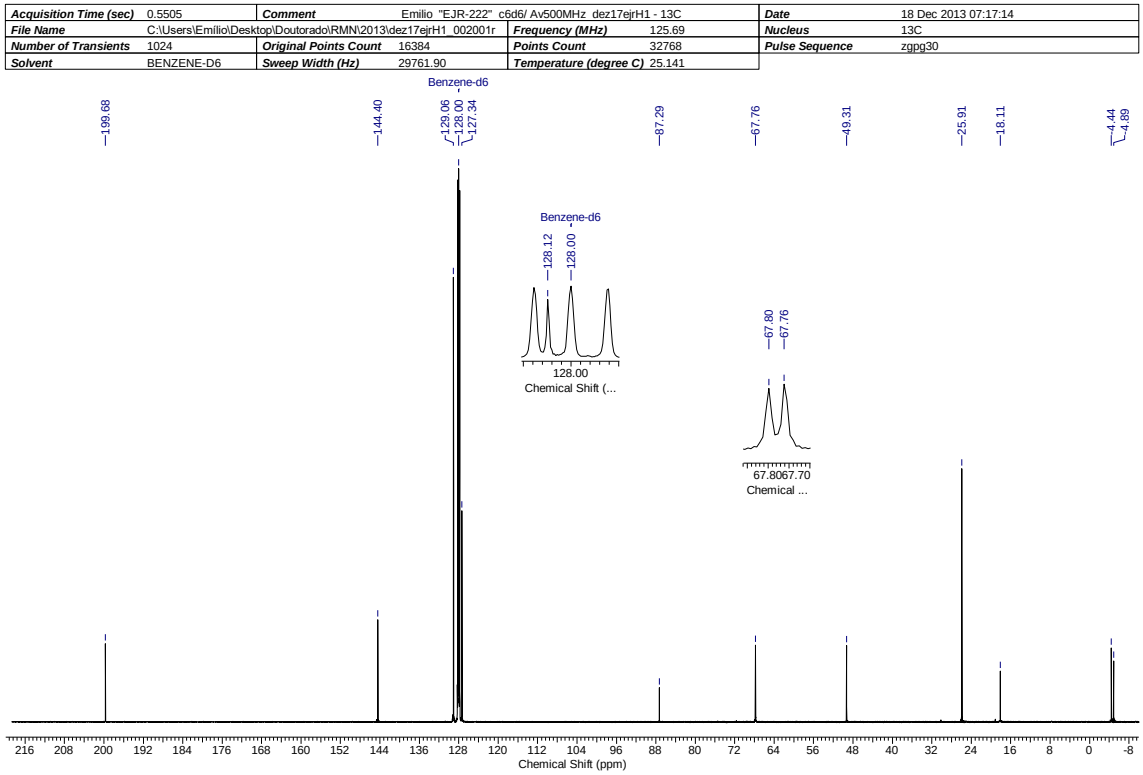


Figure S143: ^{13}C NMR spectrum of compound **14b** (125 MHz; C_6D_6).

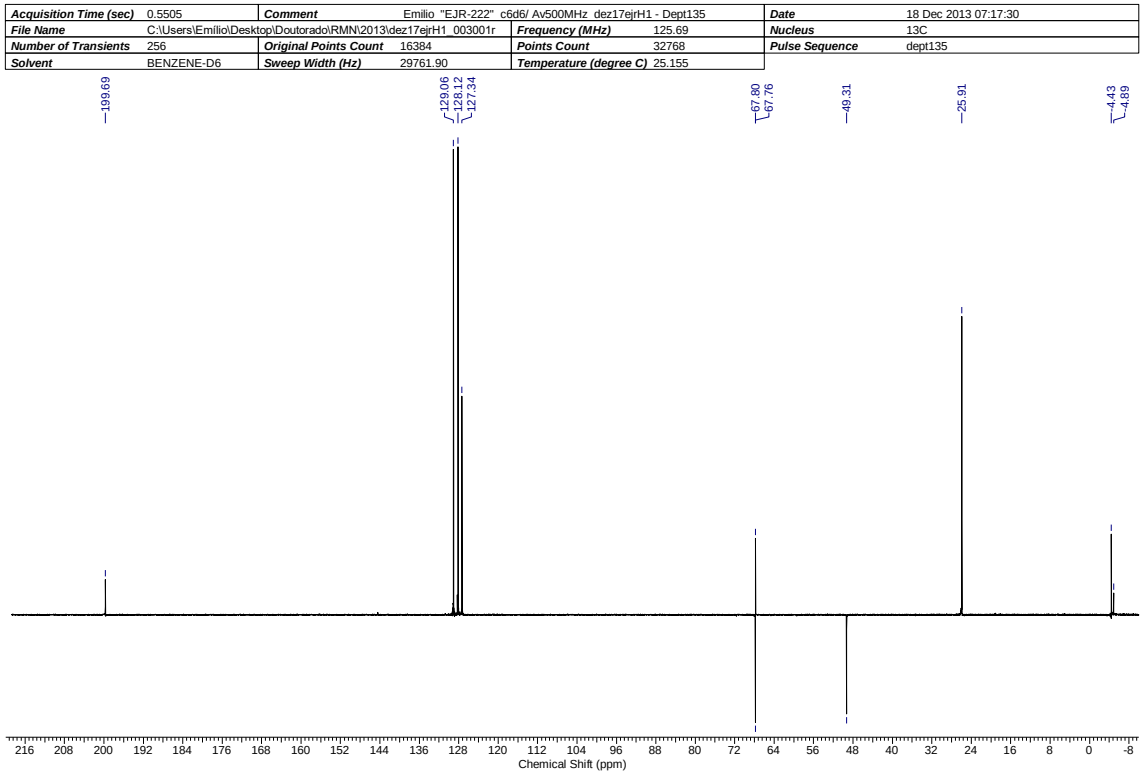
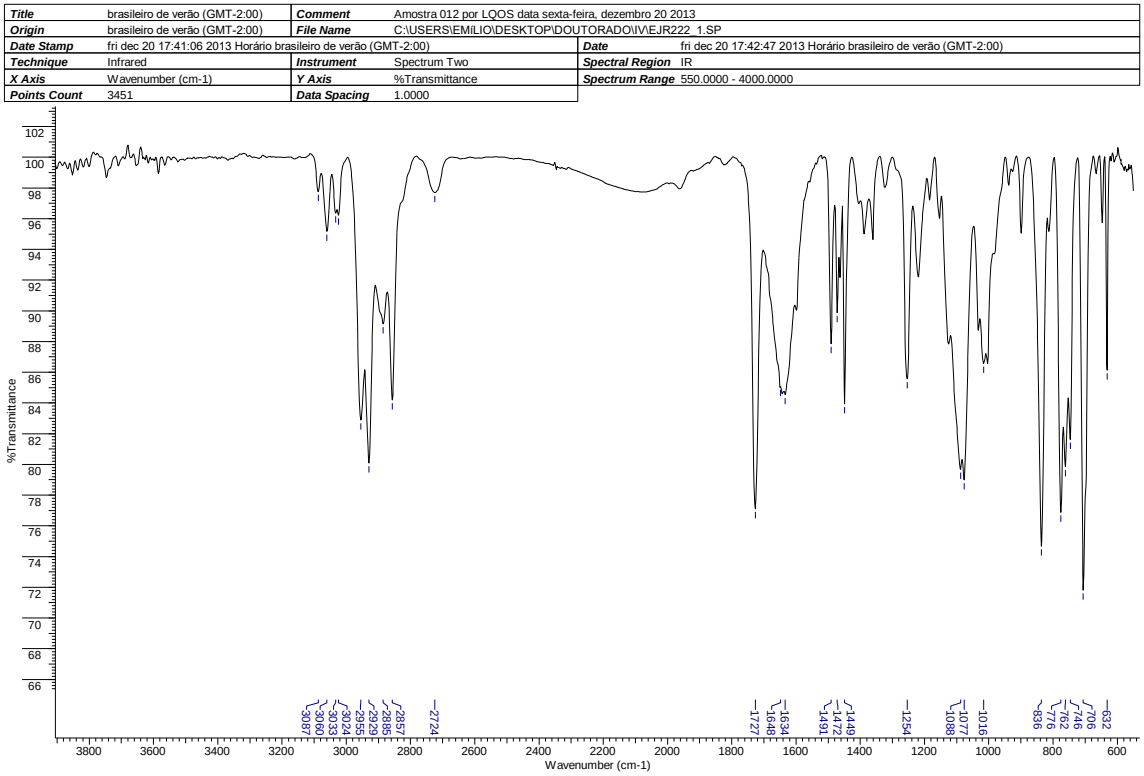


Figure S144: ^{13}C NMR (dept 135) spectrum of compound **14b** (125 MHz; C_6D_6).



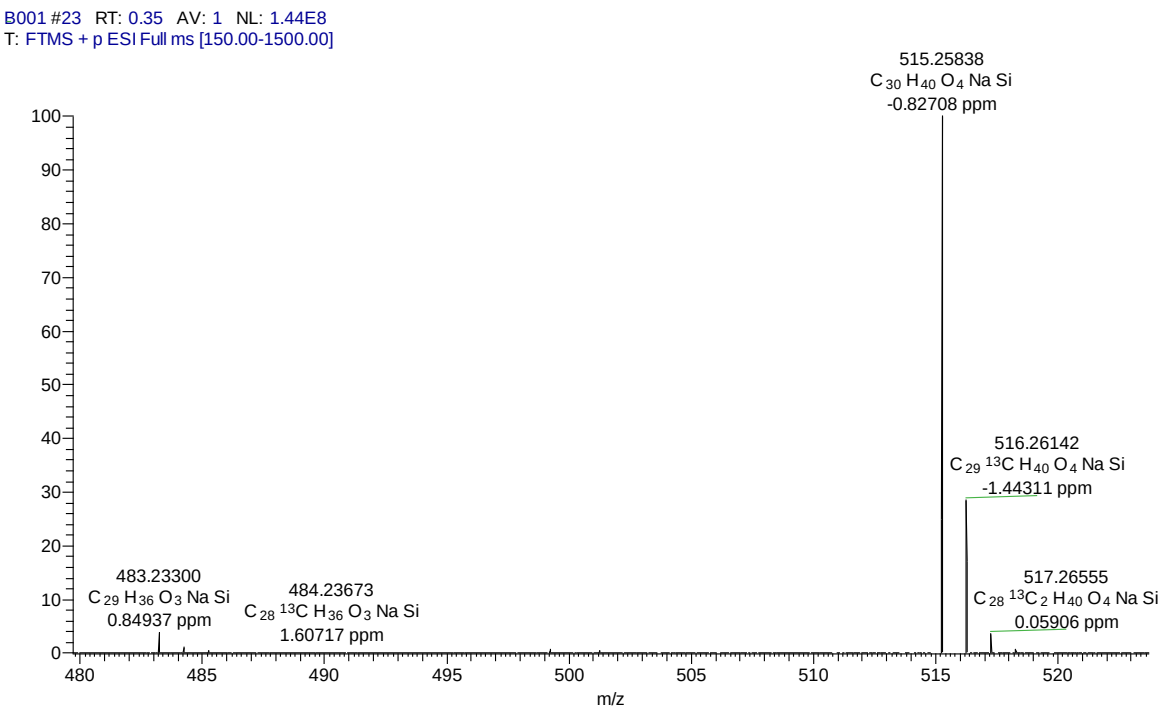


Figure S145: IR and HRMS (ESI FT-ICR-MS) spectra of compound **14b**.

Acquisition Time (sec)	1.6384	***Comment***	Emilio - EJR-224P - CDCl3 - Av 500 MHz - jan22ejrH1			***Date***	22 Jan 2014 14:09:48
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2014\jan22ejrH1_001001r	***Frequency (MHz)***	499.87			***Nucleus***	1H
Number of Transients	16	***Original Points Count***	16384	***Points Count***	65536	***Pulse Sequence***	zg30
Solvent	CHLOROFORM-D	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	25.150		

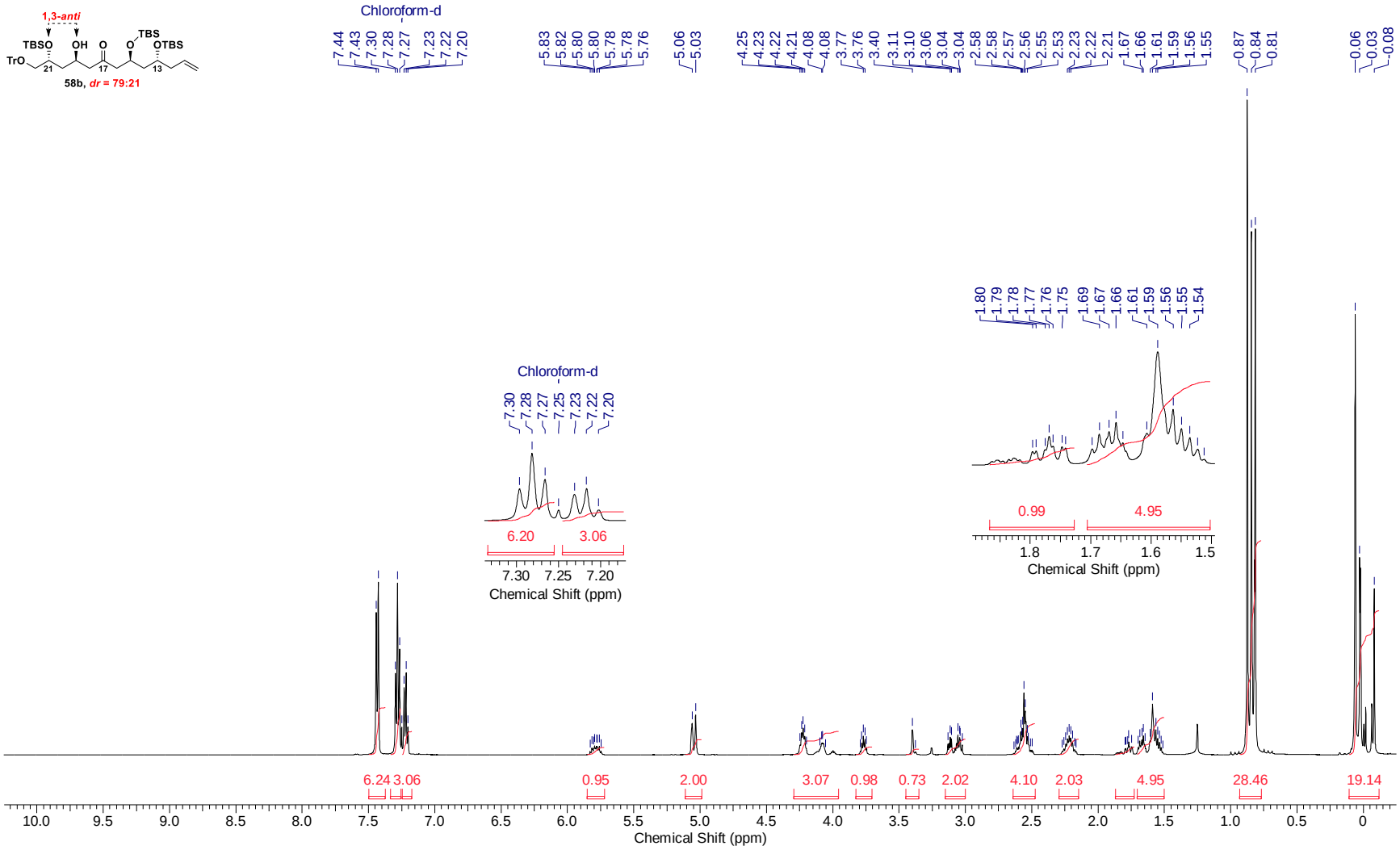


Figure S146: ^{1}H NMR spectrum of compound **58b** (500 MHz; $CDCl_3$).

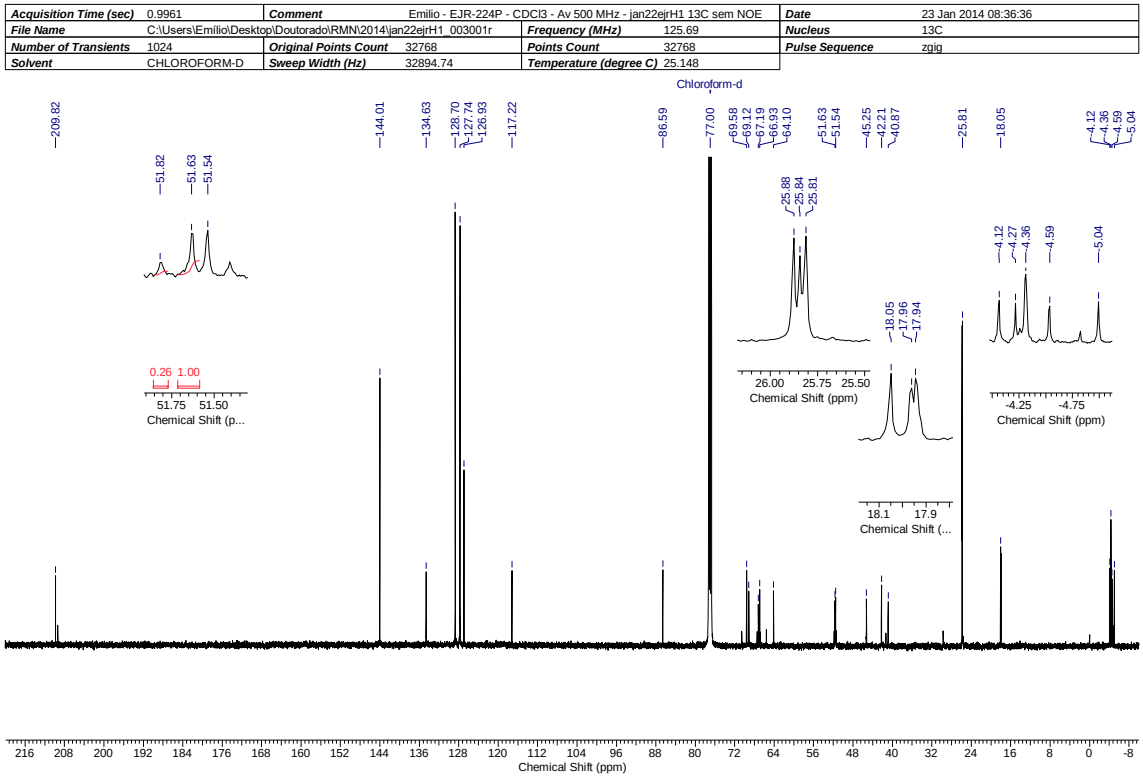


Figure S147: ^{13}C NMR spectrum of compound **58b** (125 MHz; $CDCl_3$).

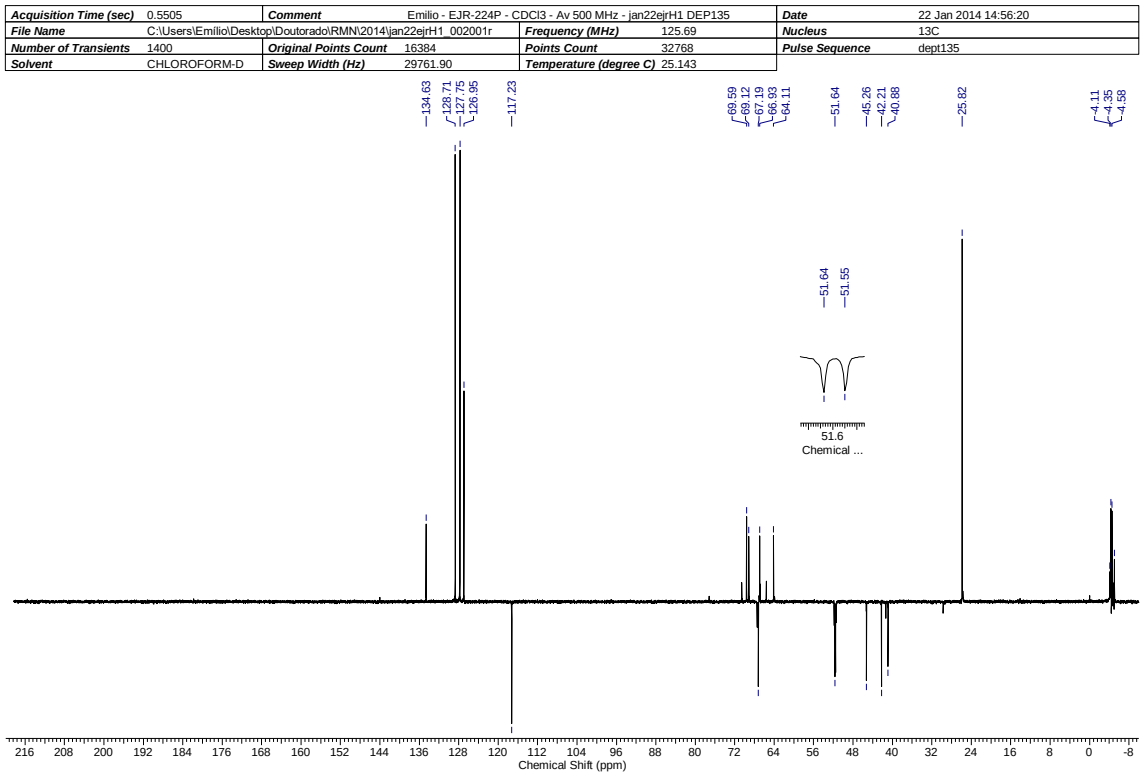
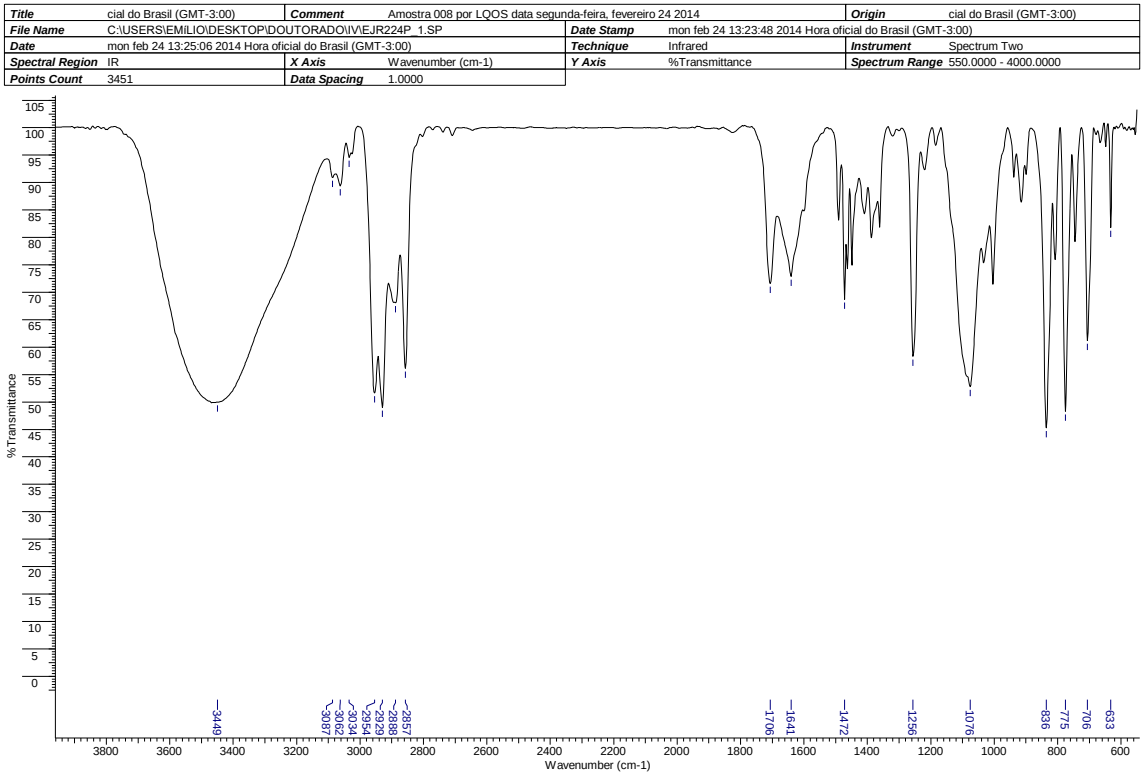


Figure S148: ^{13}C NMR (dept 135) spectrum of compound **58b** (125 MHz; $CDCl_3$).



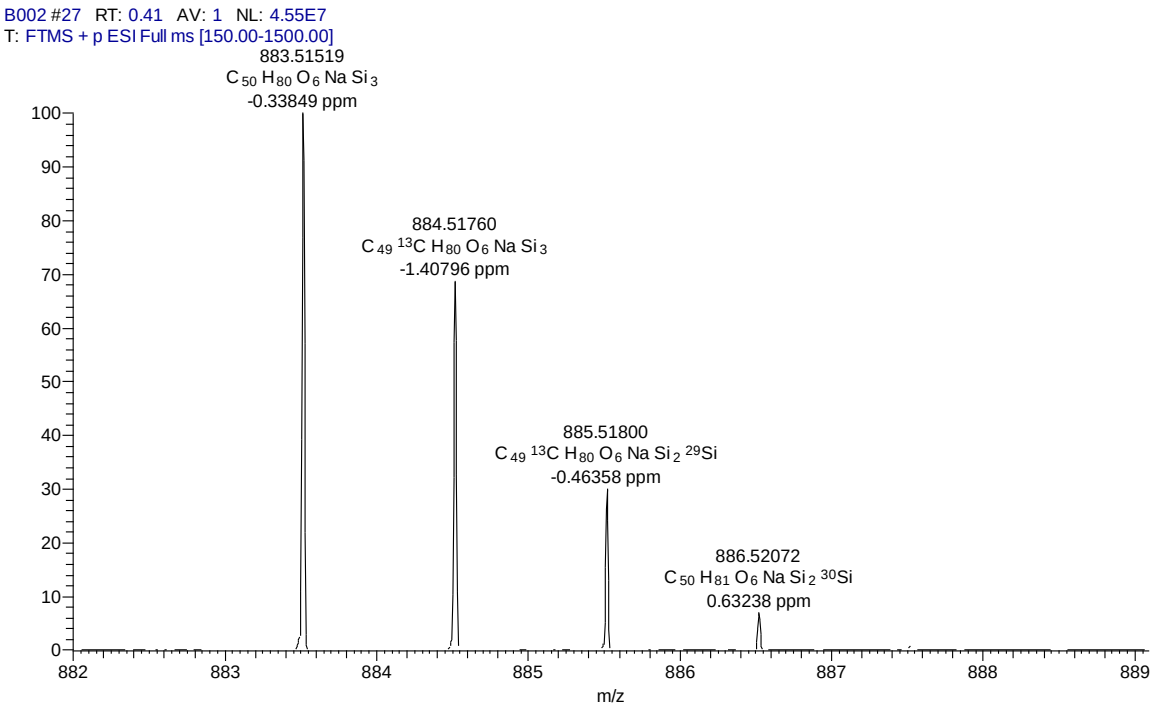


Figure S149: IR and HRMS (ESI FT-ICR-MS) spectra of compound **58b**.

Acquisition Time (sec)	1.6384	***Comment***	Emilio - EJR 225P - CDCl3 - Avance 500 MHz - jan27ejrH1 - 1H			***Date***	27 Jan 2014 10:57:20
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2014\jan27ejrH1_001001r			***Frequency (MHz)***	499.87	***Nucleus***	1H
Number of Transients	16	***Original Points Count***	16384	***Points Count***	65536	***Pulse Sequence***	zg30
Solvent	CHLOROFORM-D	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	25.148		

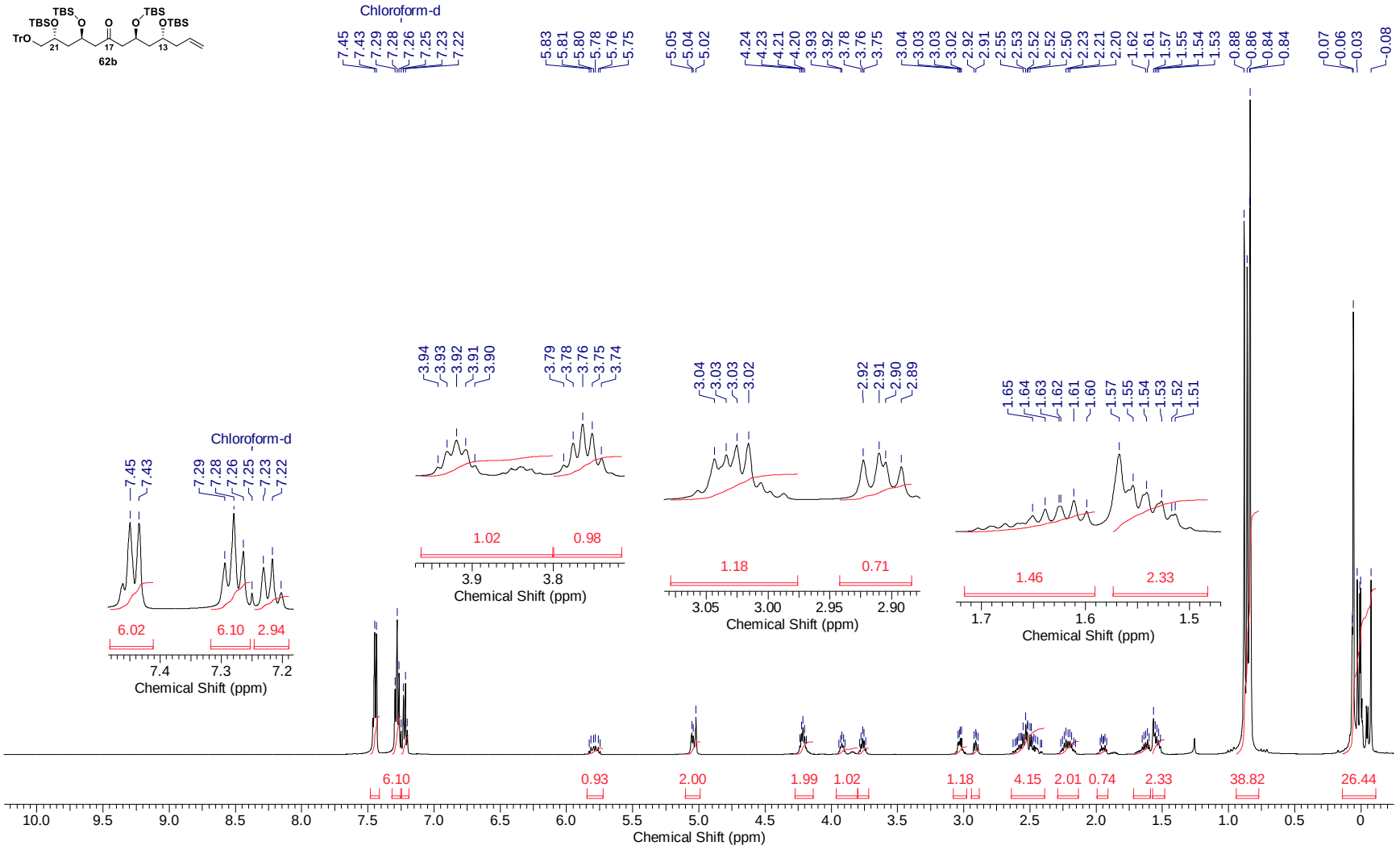


Figure S150: ^{1}H NMR spectrum of compound **62b** (500 MHz; $CDCl_3$).

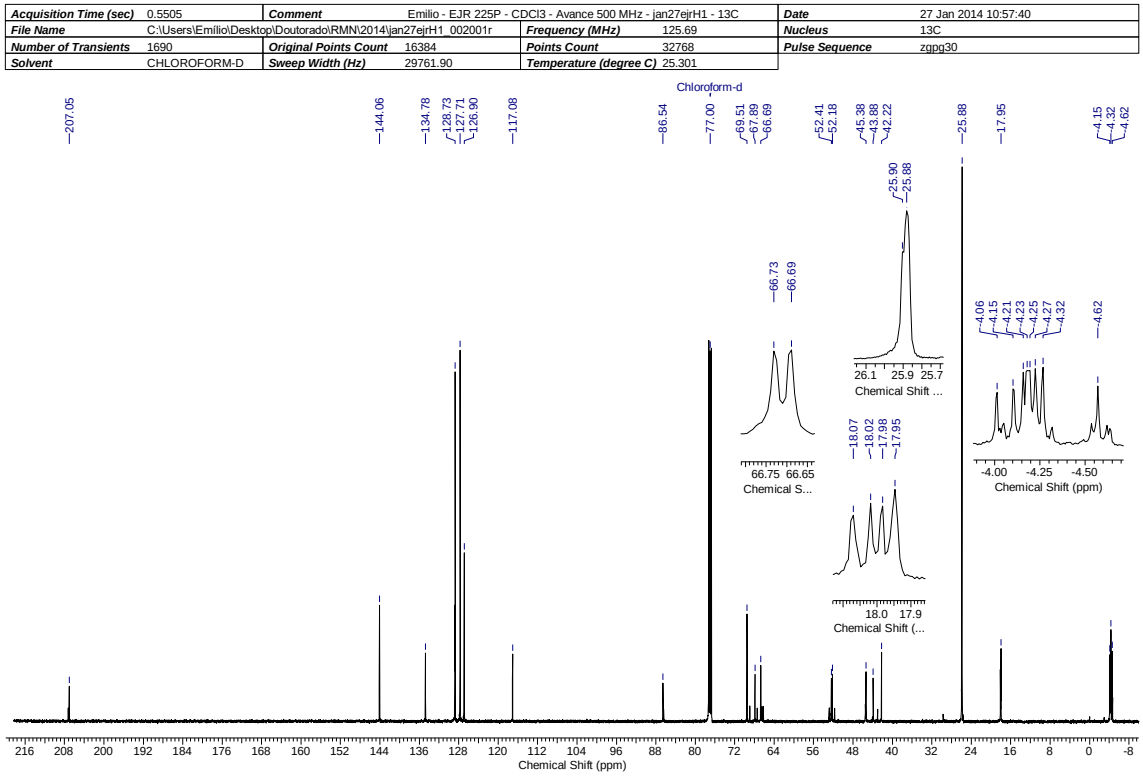


Figure S151: ^{13}C NMR spectrum of compound **62b** (125 MHz; $CDCl_3$).

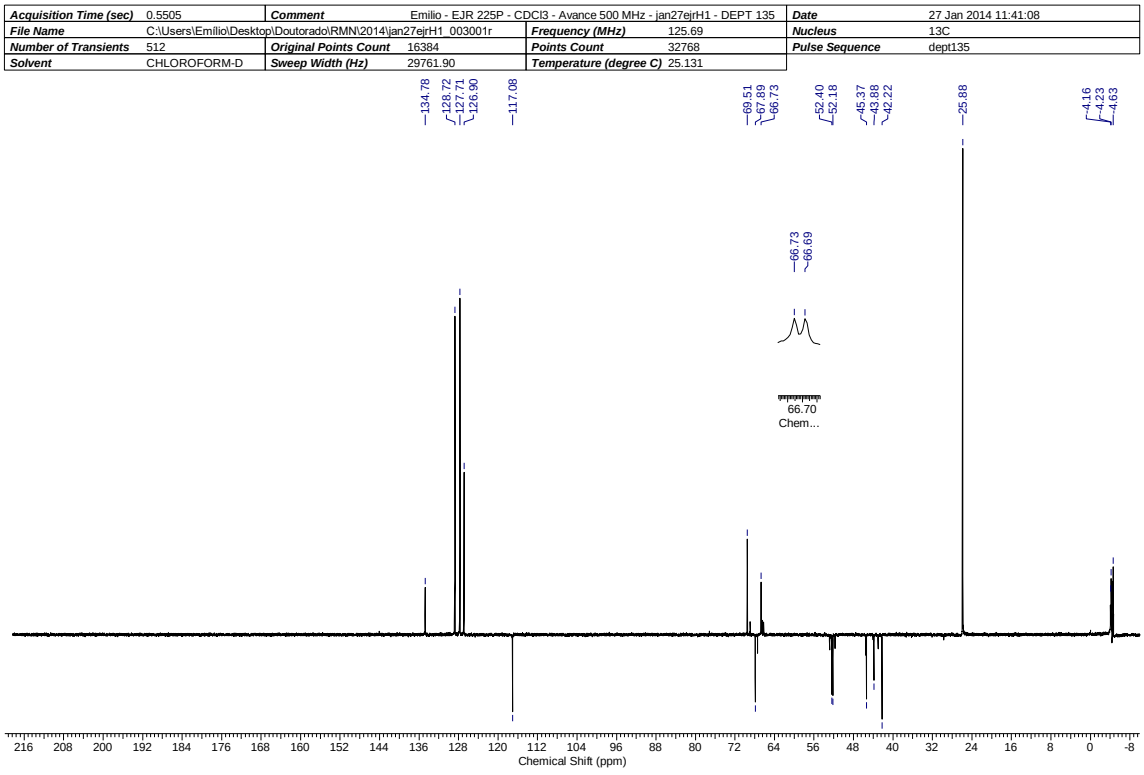
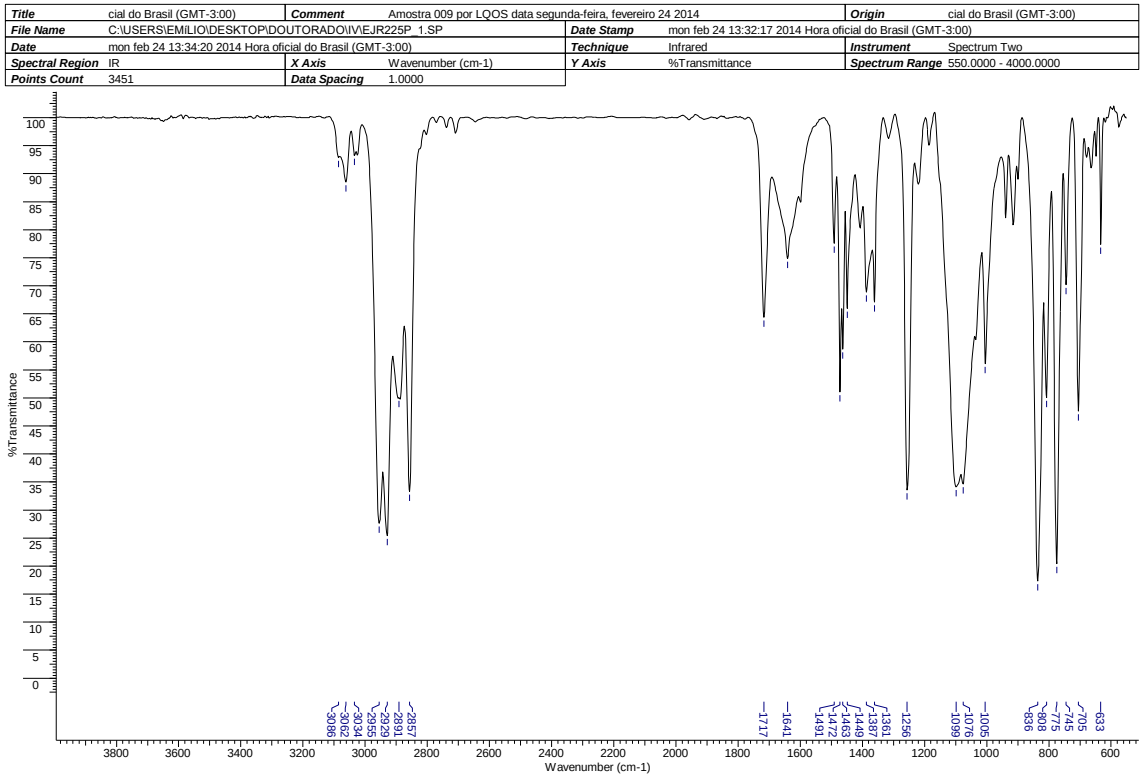


Figure S152: ^{13}C NMR (dept 135) spectrum of compound **62b** (125 MHz; $CDCl_3$).



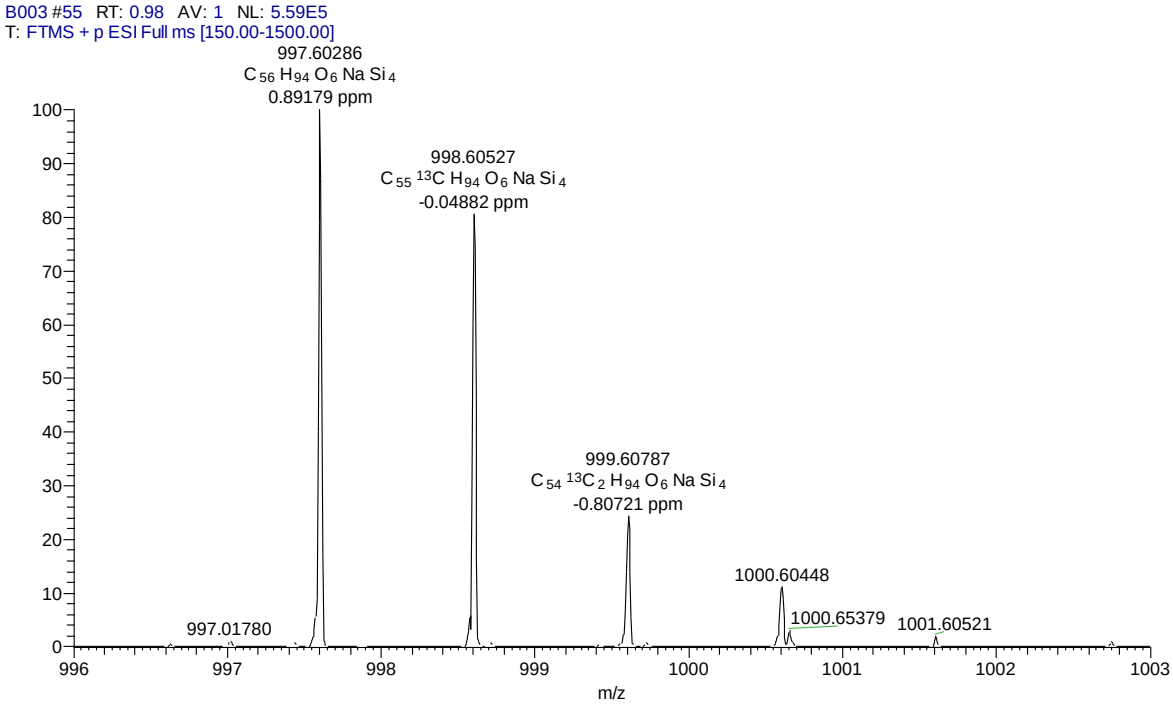


Figure S153: IR and HRMS (ESI FT-ICR-MS) spectra of compound **62b**.

Acquisition Time (sec)	1.6384	***Comment***	Emilio - EJR-327 - CDCl3 - Av 500MHz - jul21ejrH1			***Date***	22 Jul 2014 09:09:48
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2014\jul21ejrH1_001001r			***Frequency (MHz)***	499.87	***Nucleus***	1H
Number of Transients	16	***Original Points Count***	16384	***Points Count***	65536	***Pulse Sequence***	zg30
Solvent	CHLOROFORM-D	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	25.150		

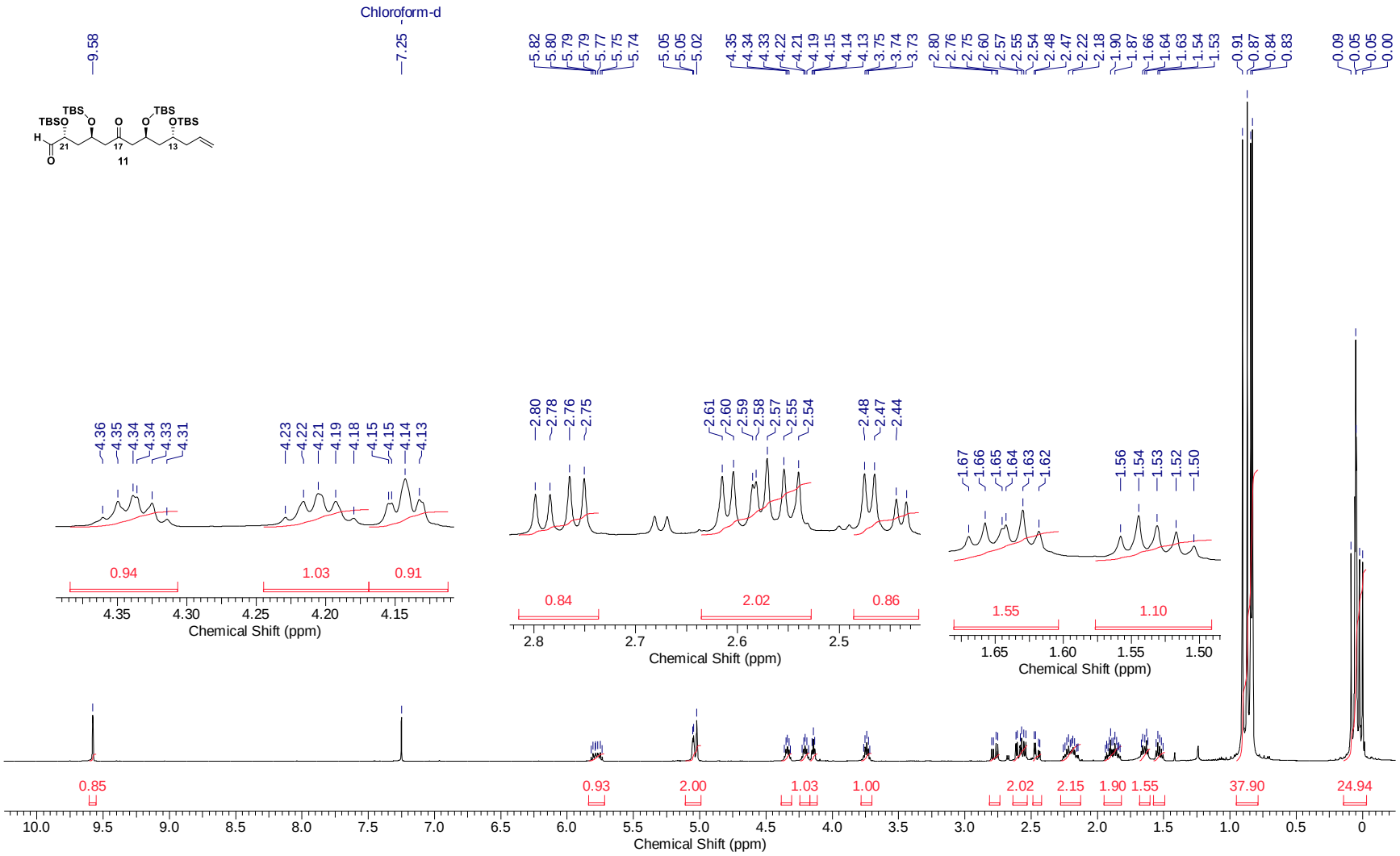


Figure S154: ^{1}H NMR spectrum of compound **11** (500 MHz; $CDCl_3$).

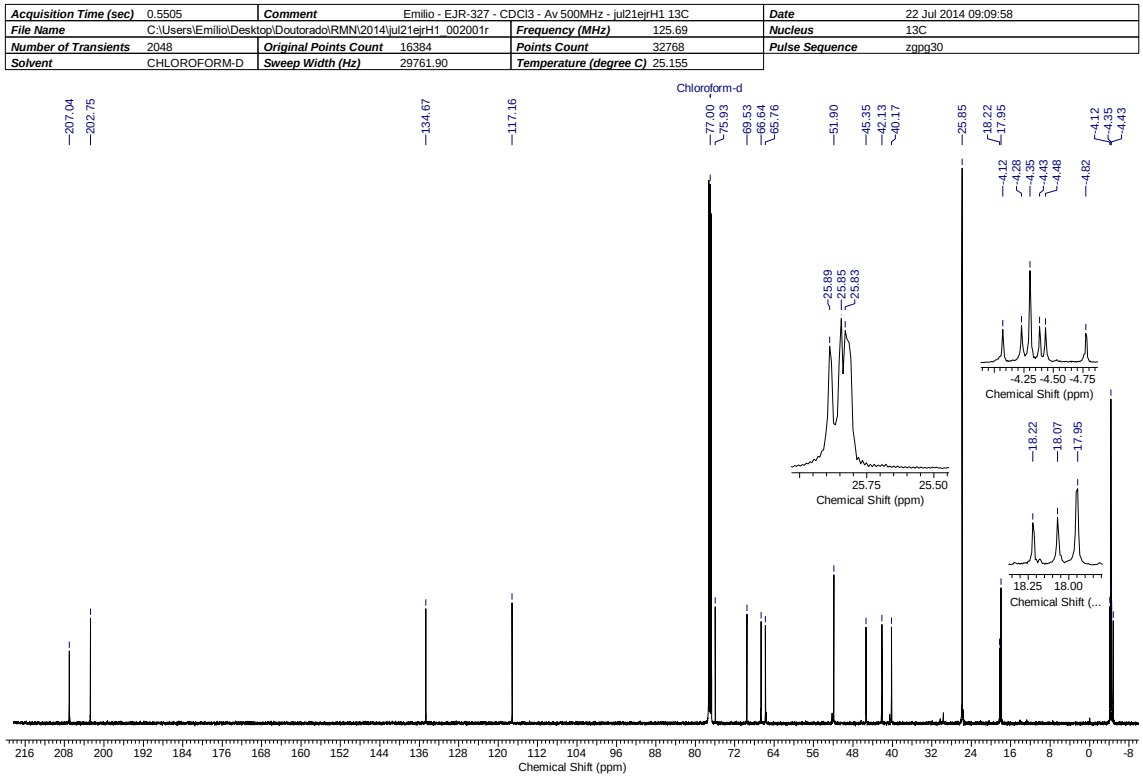


Figure S155: ^{13}C NMR spectrum of compound **11** (125 MHz; $CDCl_3$).

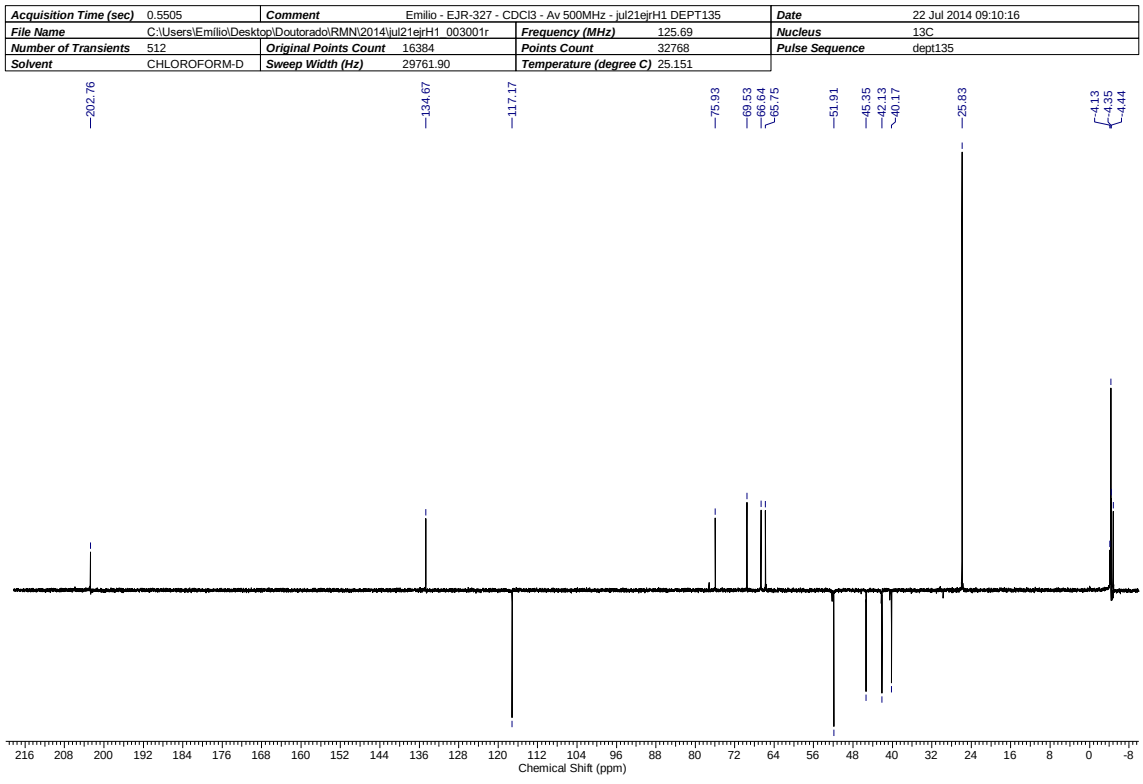
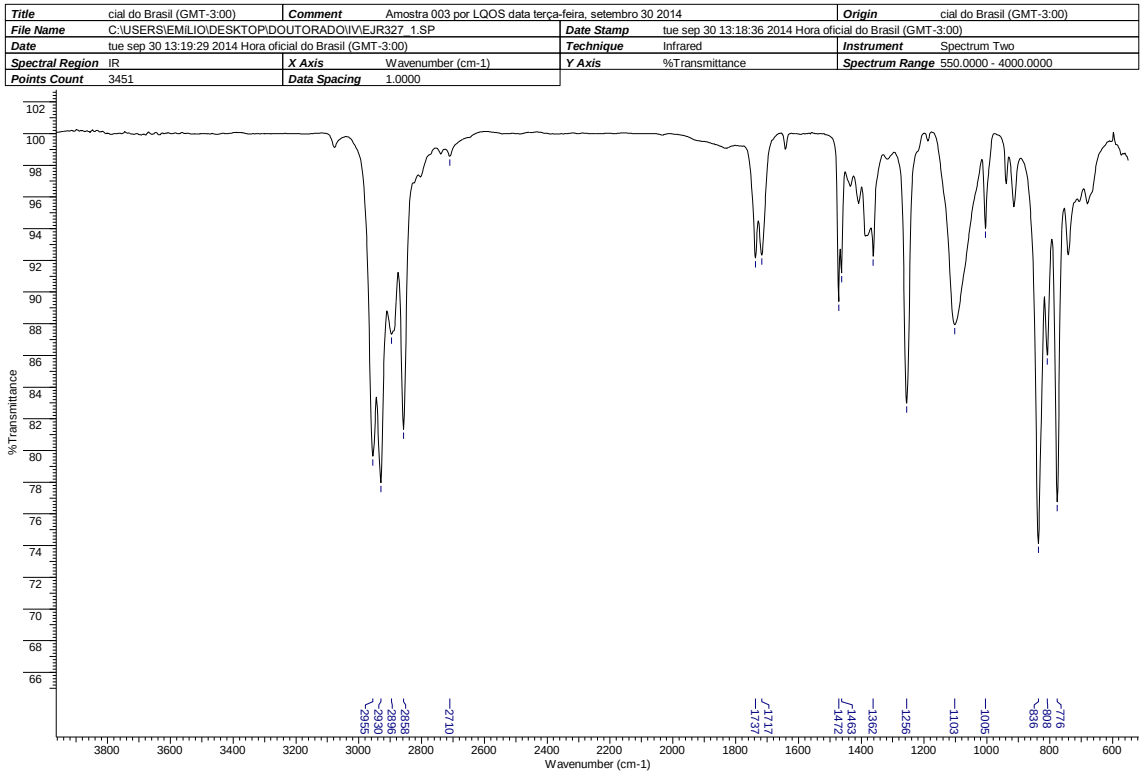


Figure S156: ^{13}C NMR (dept 135) spectrum of compound **11** (125 MHz; $CDCl_3$).



B005 #30 RT: 0.45 AV: 1 NL: 7.89E5
T: FTMS + p ESI Full ms [150.00-1500.00]

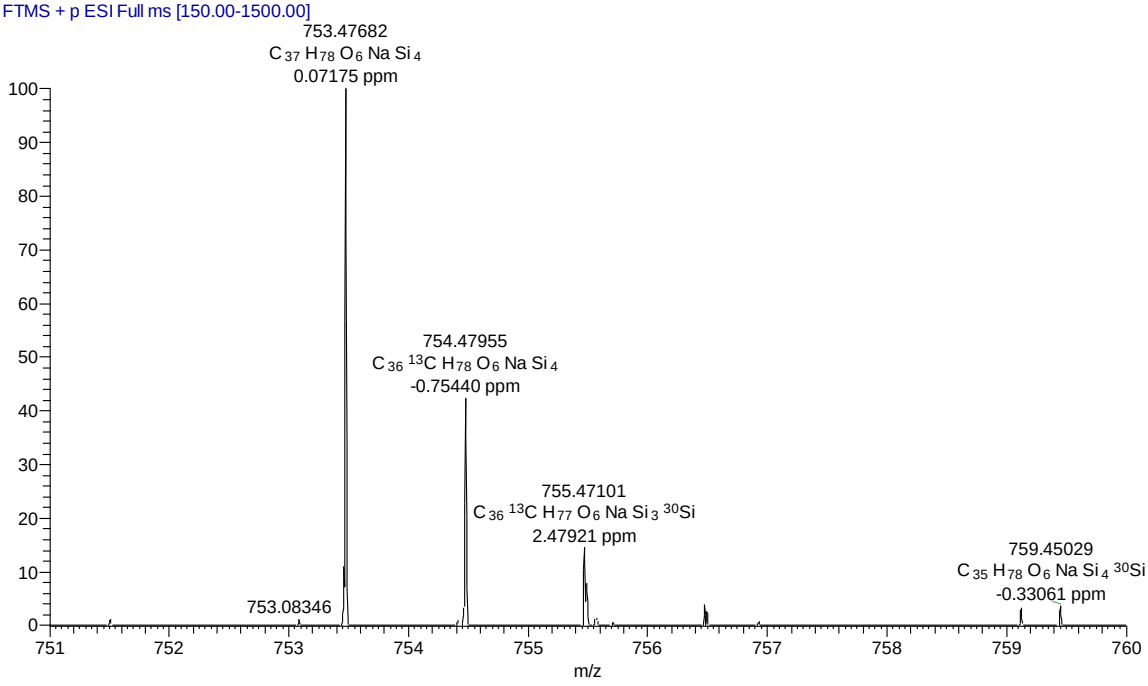


Figure S157: IR and HRMS (ESI FT-ICR-MS) spectra of compound **11**.

Copies of ^{1}H and ^{13}C NMR, IR, and HRMS spectra for fragment C9−C35:

Acquisition Time (sec)	1.6384	***Comment***	Emilio - EJR 237P - CDCl3 - Avance 500 MHz - fev10ejrH1 - 1H			***Date***	11 Feb 2014 08:31:28
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2014\fev10ejrH1_001001r			***Frequency (MHz)***	499.87	***Nucleus***	1H
Number of Transients	16	***Original Points Count***	16384	***Points Count***	65536	***Pulse Sequence***	zg30
Solvent	CHLOROFORM-D	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	25.154		

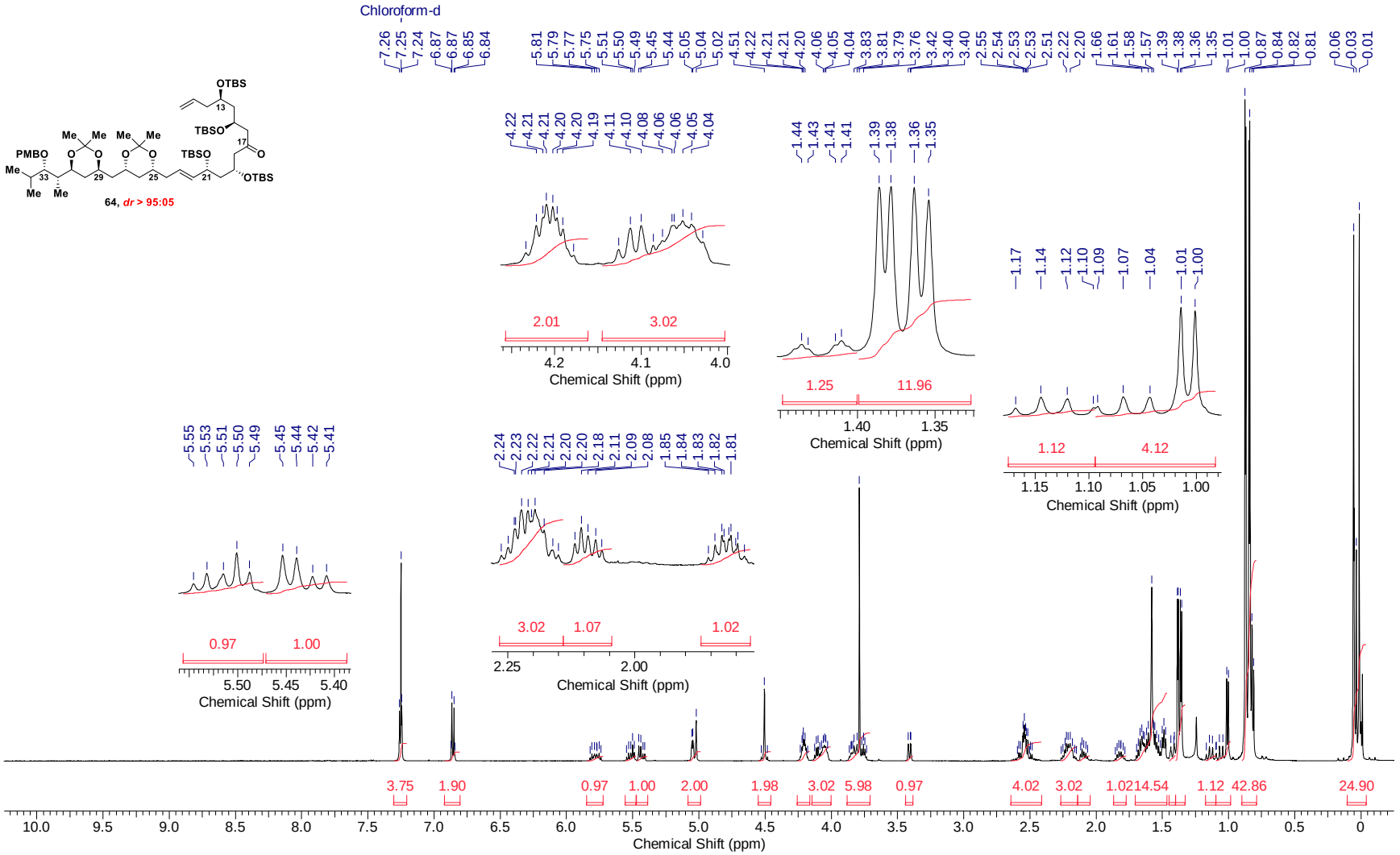


Figure S158: ^{1}H NMR spectrum of compound **64** (500 MHz; $CDCl_3$).

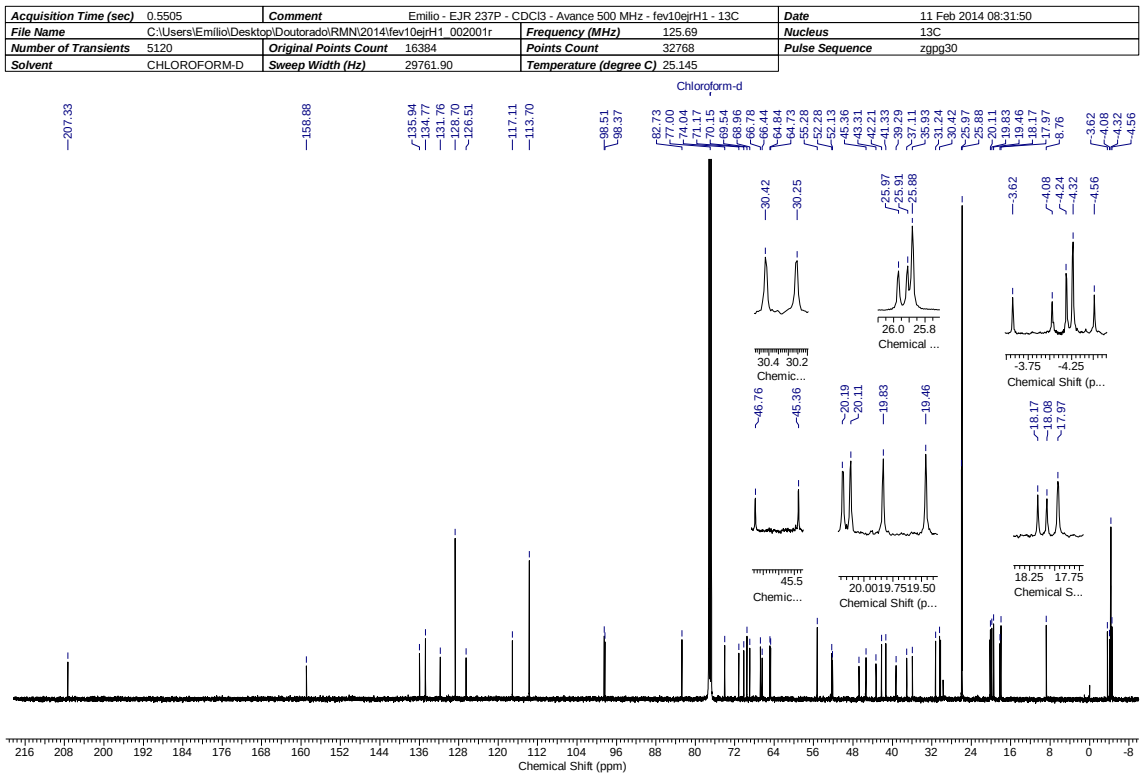


Figure S159: ^{13}C NMR spectrum of compound **64** (125 MHz; $CDCl_3$).

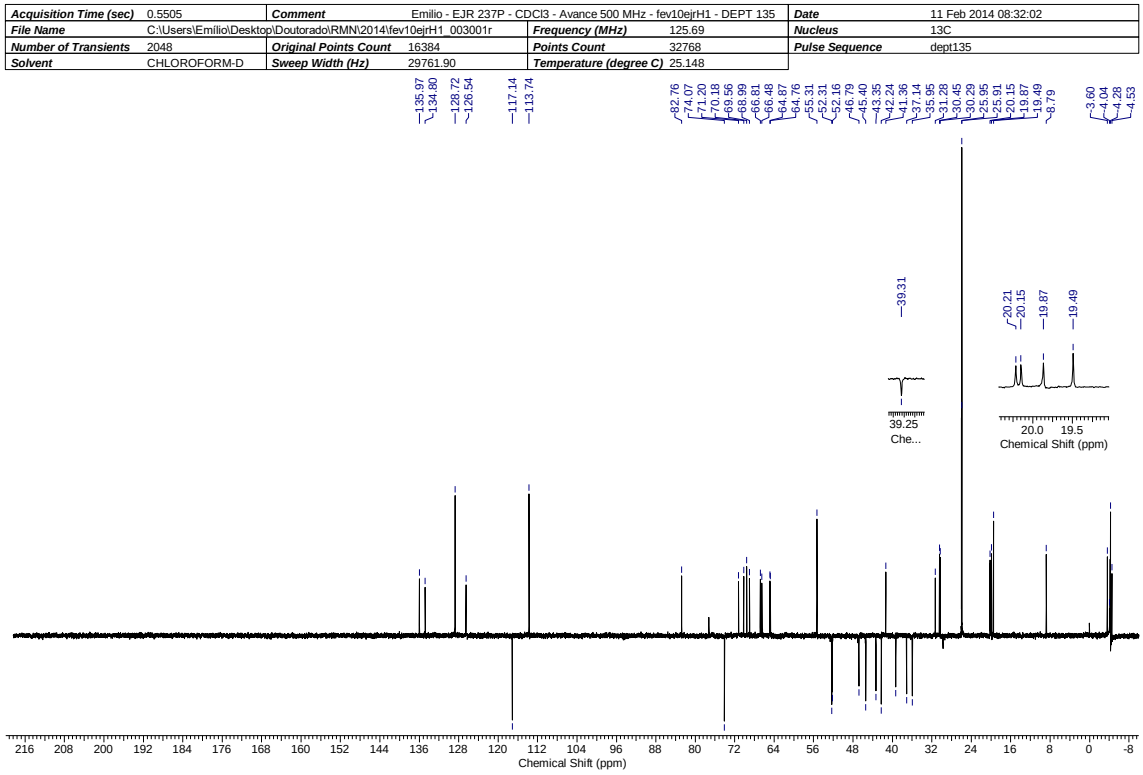
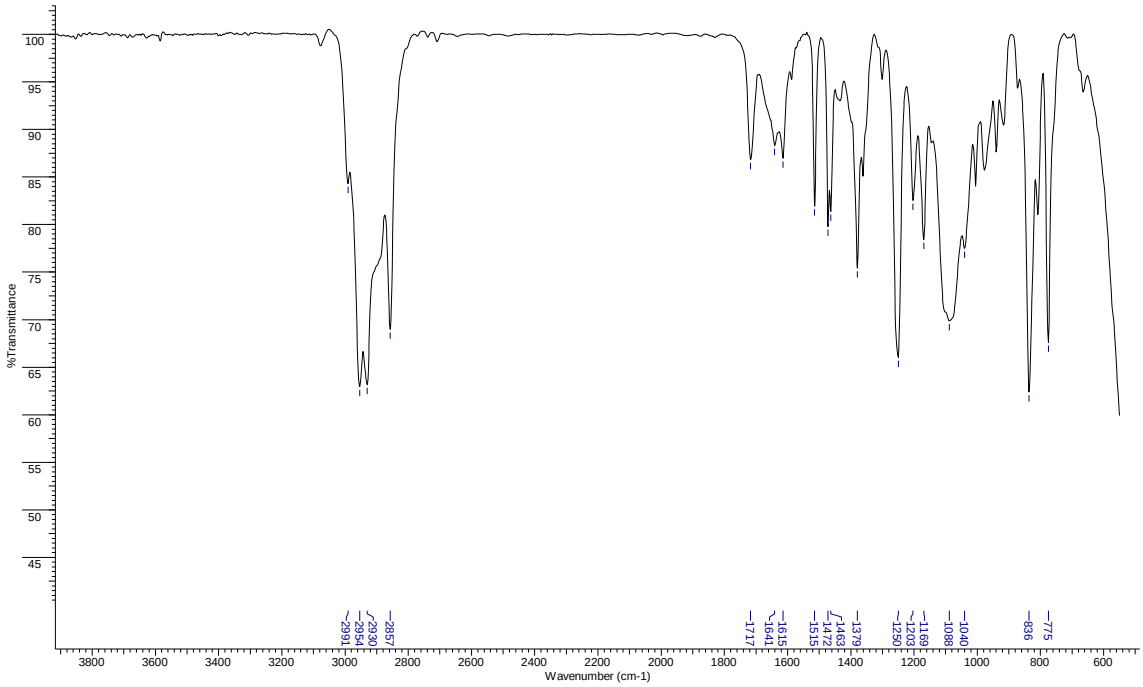


Figure S160: ^{13}C NMR (dept 135) spectrum of compound **64** (125 MHz; $CDCl_3$).

Title	cial do Brasil (GMT-3:00)	***Comment***	Amostra 000 por LQOS data segunda-feira, fevereiro 24 2014			***Origin***	cial do Brasil (GMT-3:00)
File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IV\EJR237P_1.SP			***Date Stamp***	mon feb 24 15:23:28 2014 Hora oficial do Brasil (GMT-3:00)		
Date	mon feb 24 15:25:59 2014 Hora oficial do Brasil (GMT-3:00)			***Technique***	Infrared	***Instrument***	Spectrum Two
Spectral Region	IR	***X Axis***	Wavenumber (cm-1)	***Y Axis***	%Transmittance	***Spectrum Range***	550.0000 - 4000.0000
Points Count	3451	***Data Spacing***	1.0000				



B006 #15 RT: 0.23 AV: 1 NL: 3.36E7
T: FTMS + p ESI Full ms [150.00-1500.00]

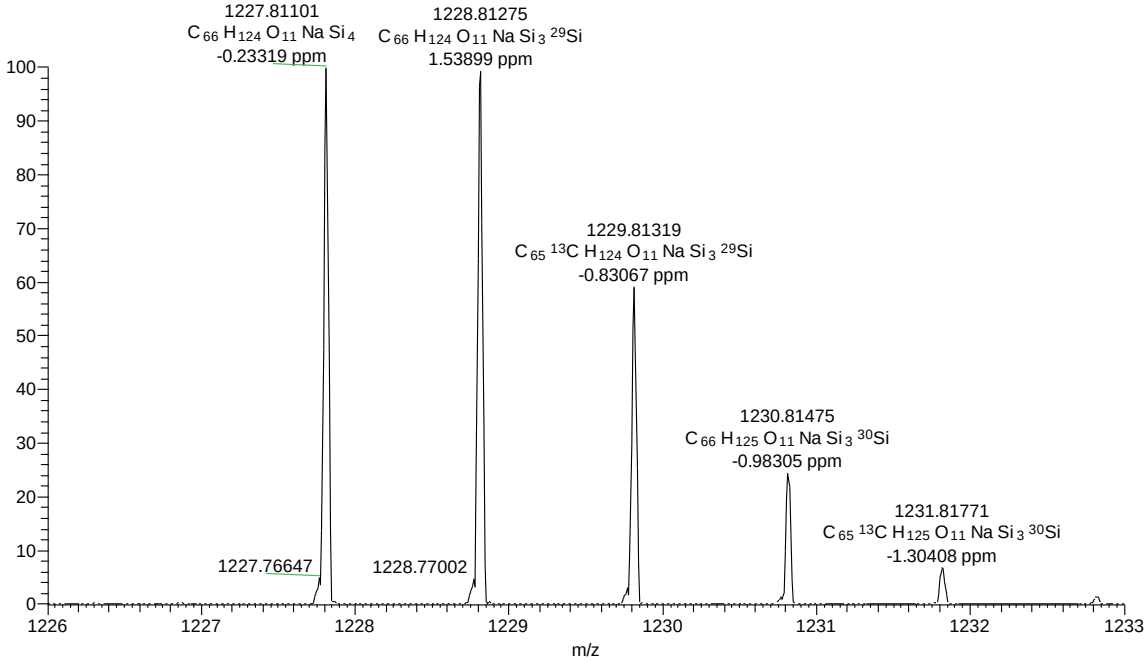


Figure S161: IR and HRMS (ESI FT-ICR-MS) spectra of compound **64**.

Acquisition Time (sec)	1.5903	***Date***	14 Mar 2014 16:56:56				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2014\mar14ejrH1_001001r					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	10302.20
Temperature (degree C)	25.152						

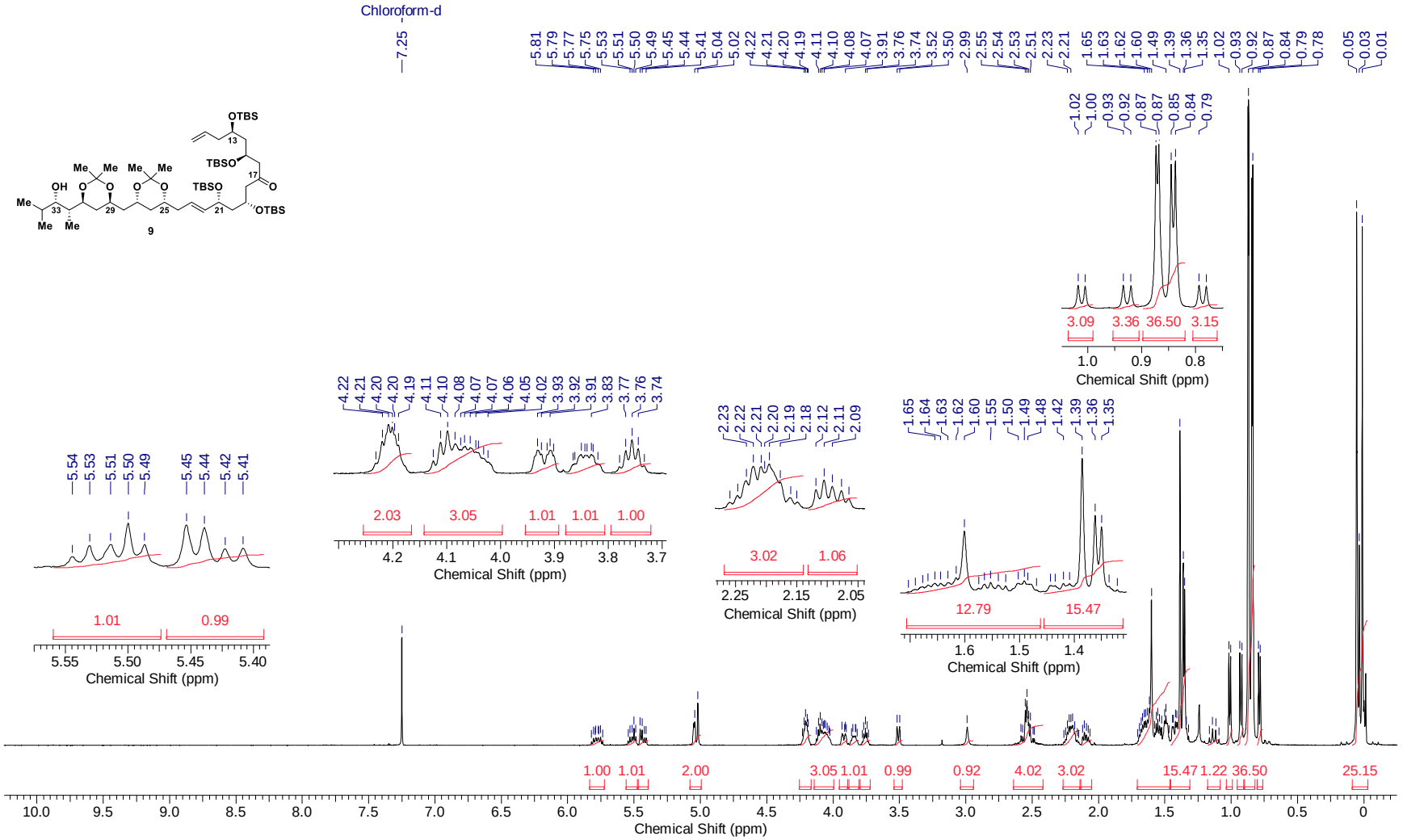


Figure S162: ^{1}H NMR spectrum of compound **9** (500 MHz; $CDCl_3$).

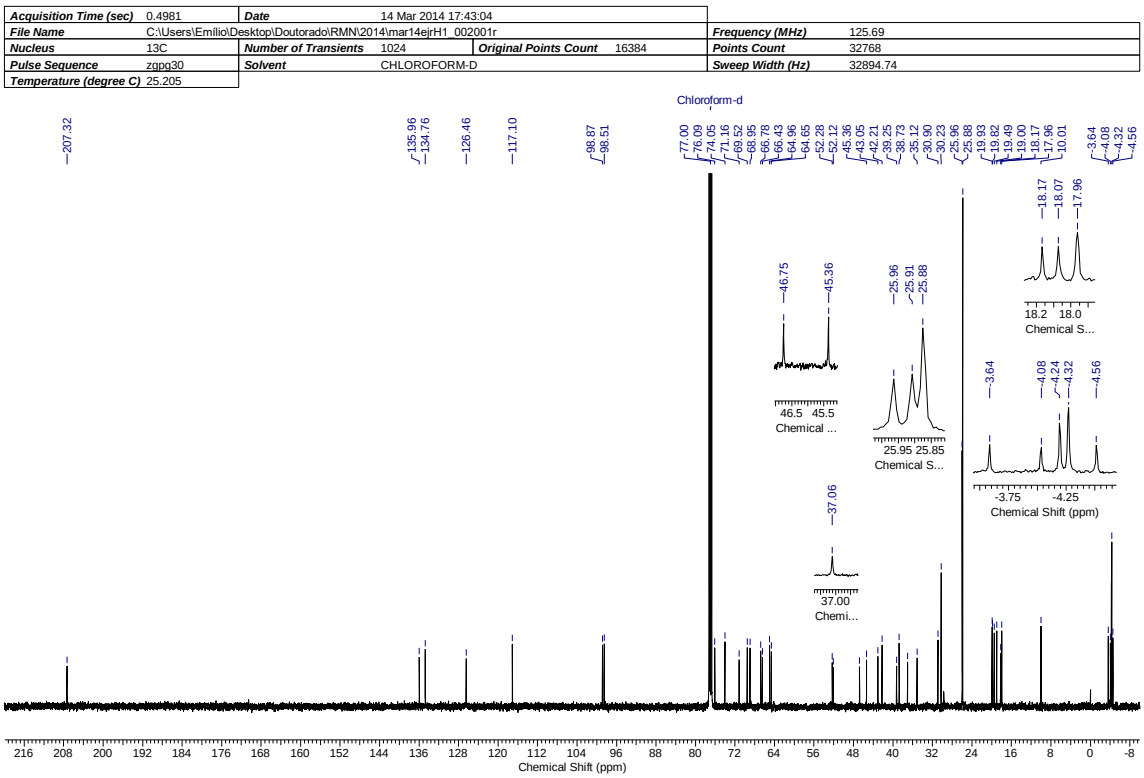


Figure S163: ^{13}C NMR spectrum of compound **9** (125 MHz; $CDCl_3$).

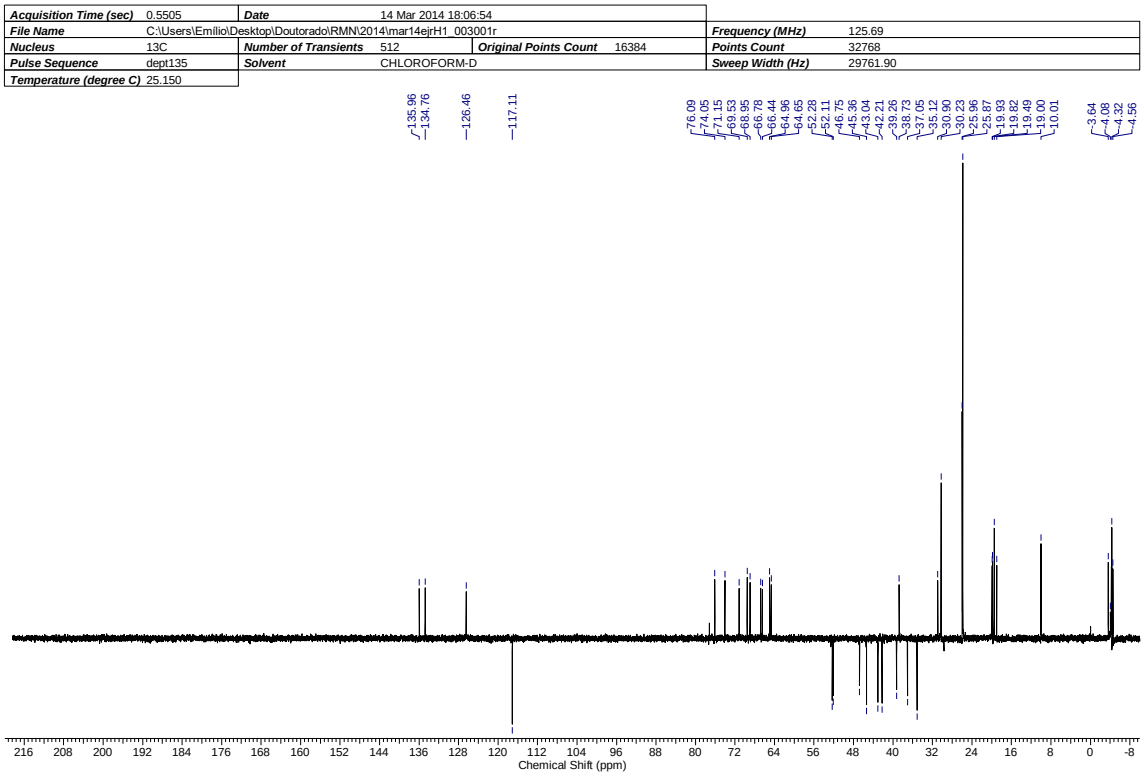
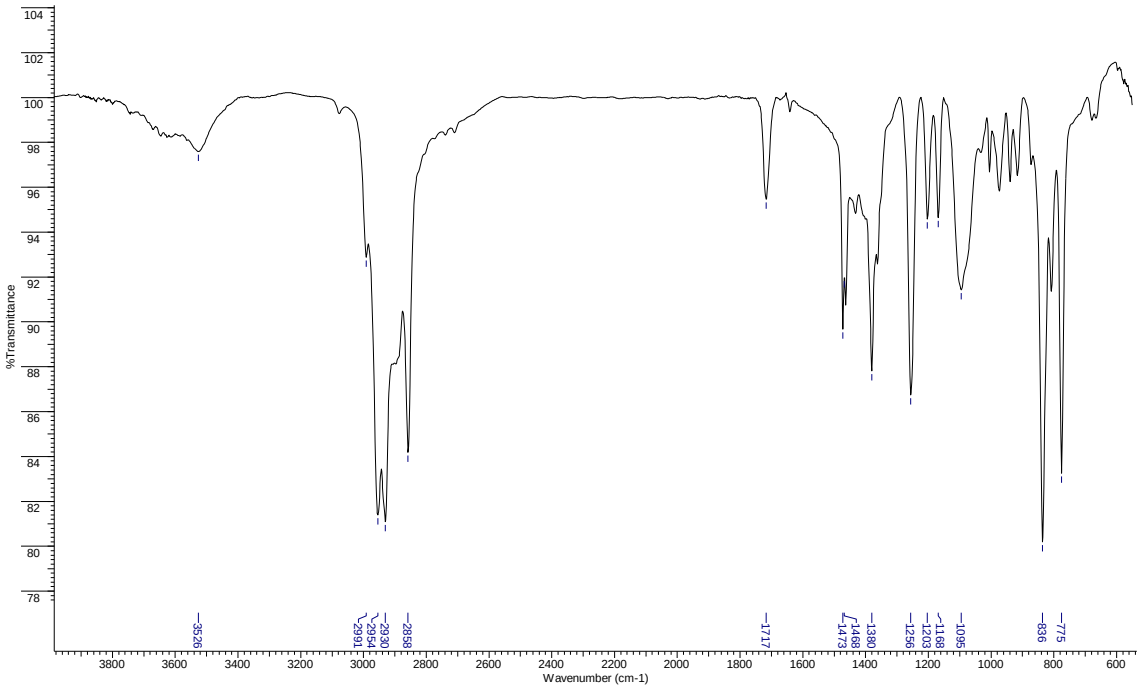


Figure S164: ^{13}C NMR (dept 135) spectrum of compound **9** (125 MHz; $CDCl_3$).

Title	cial do Brasil (GMT-3:00)	**Comment**	Amostra 005 por LQOS data terça-feira, setembro 30 2014	**Origin**	cial do Brasil (GMT-3:00)
File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IV\EJR253P_1.SP			**Date Stamp**	tue sep 30 13:34:04 2014 Hora oficial do Brasil (GMT-3:00)
Date	tue sep 30 13:34:53 2014 Hora oficial do Brasil (GMT-3:00)			**Technique**	Infrared
Instrument	Spectrum Two				
Spectral Region	IR	**X Axis**	Wavenumber (cm-1)	**Y Axis**	%Transmittance
Spectrum Range	550.0000 - 4000.0000				
Points Count	3451	**Data Spacing**	1.0000		



B007 #22 RT: 0.35 AV: 1 NL: 8.61E6
T: FTMS + p ESI Full ms [150.00-1500.00]

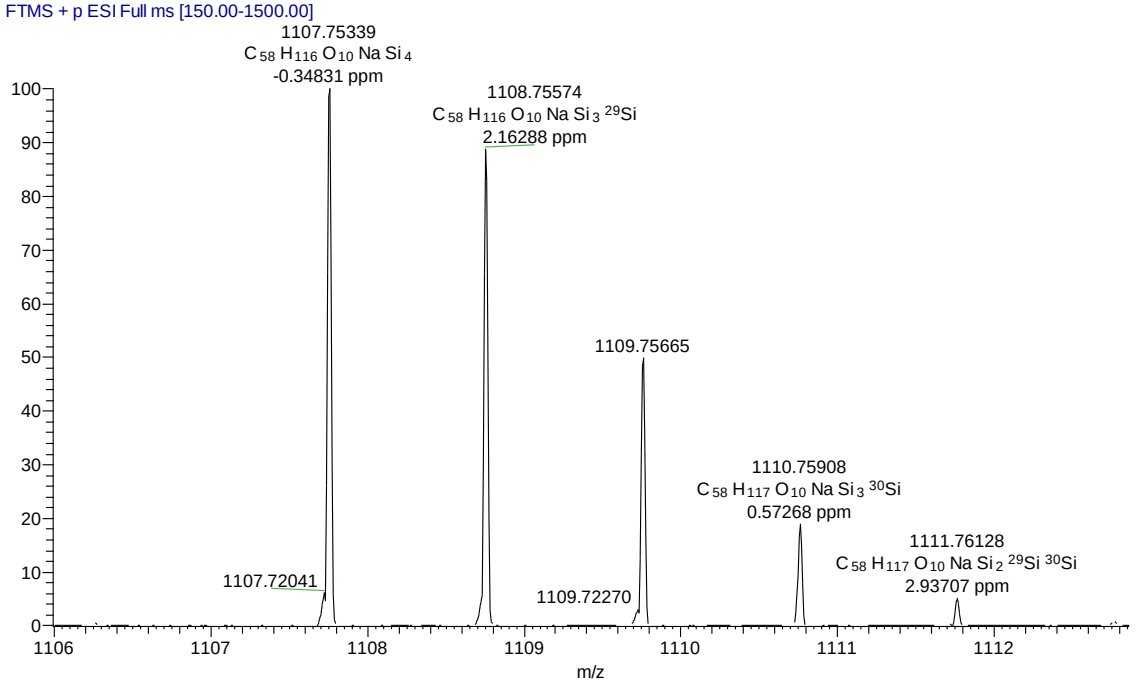


Figure S165: IR and HRMS (ESI FT-ICR-MS) spectra of compound **9**.

Acquisition Time (sec)	1.6384	***Comment***	Emilio - EJR-270P - CDCl3 - Av 500 MHz - abr14ejrH1			***Date***	14 Apr 2014 20:56:32
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2014\abr14ejrH1\abr14ejrH1_001000fid					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	16384
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	25.151

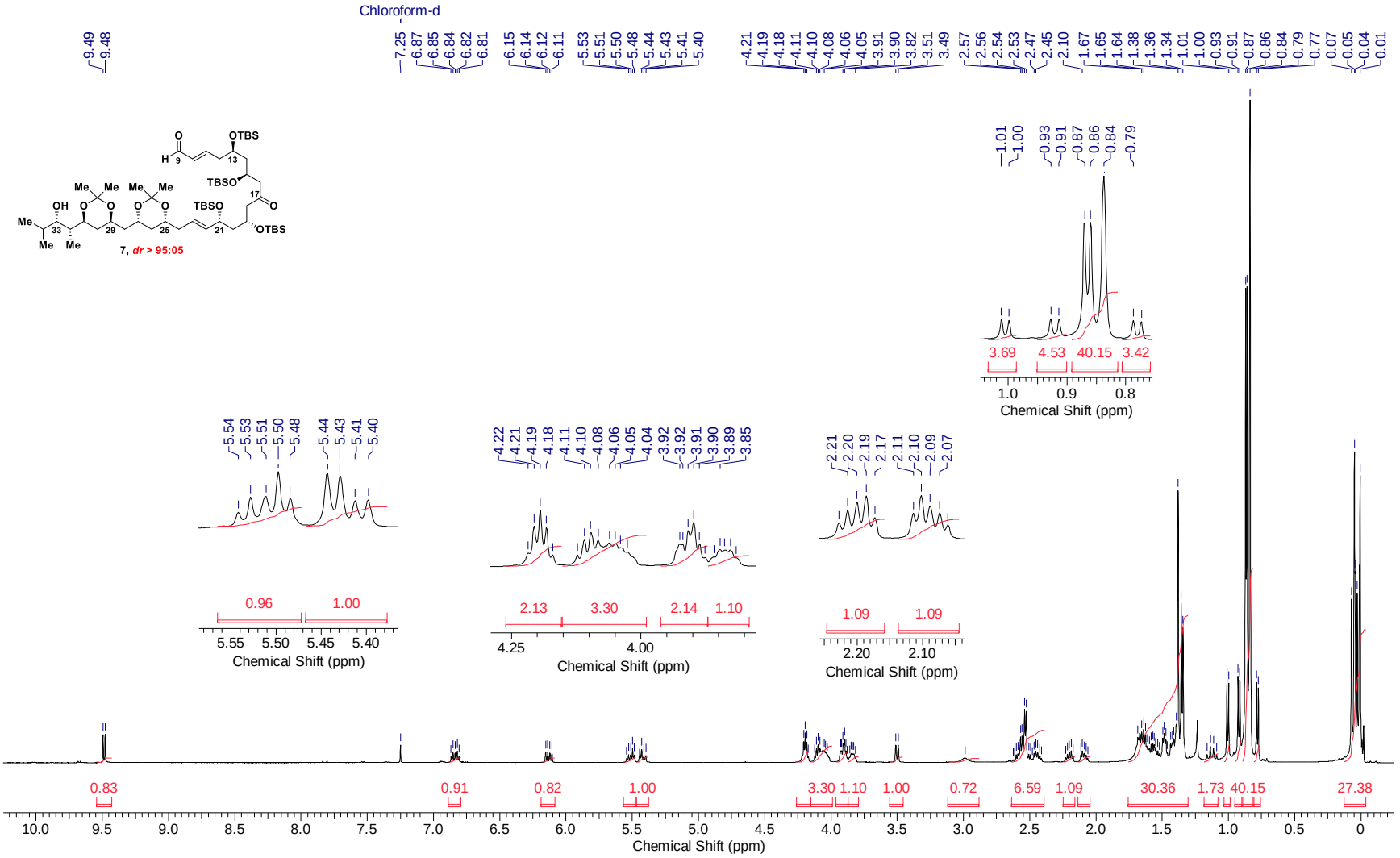


Figure S166: ^{1}H NMR spectrum of compound **7** (500 MHz; $CDCl_3$).

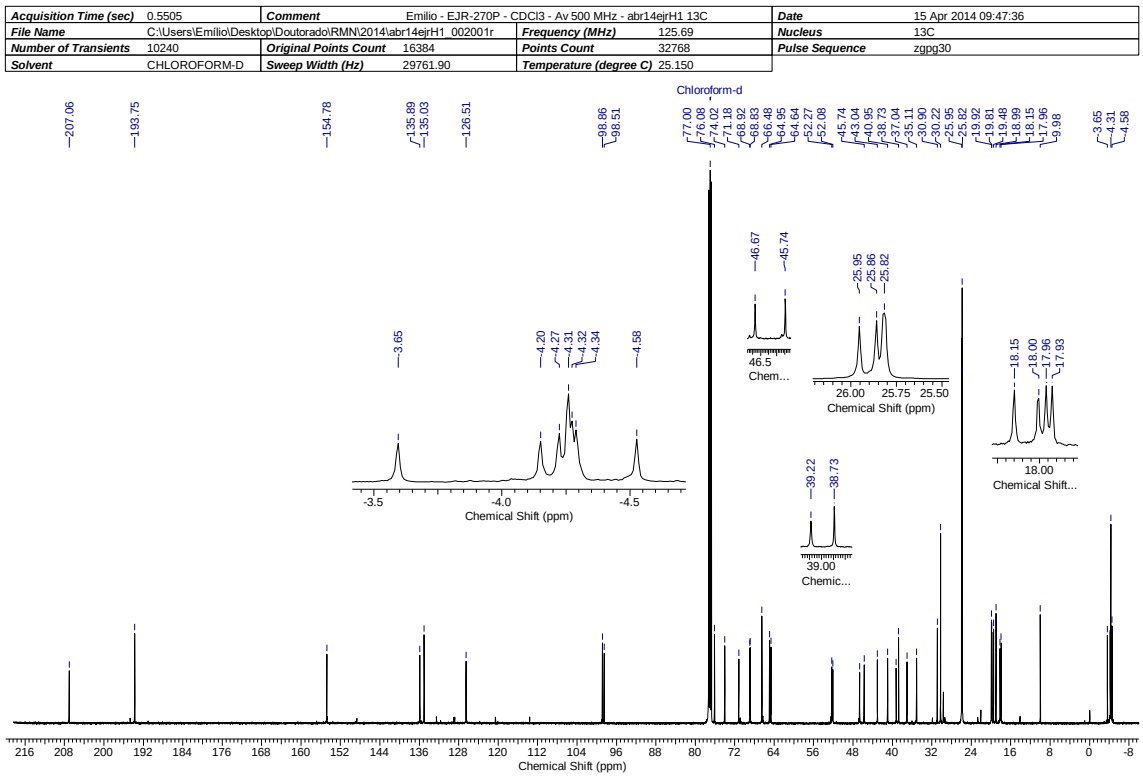


Figure S167: ^{13}C NMR spectrum of compound **7** (125 MHz; $CDCl_3$).

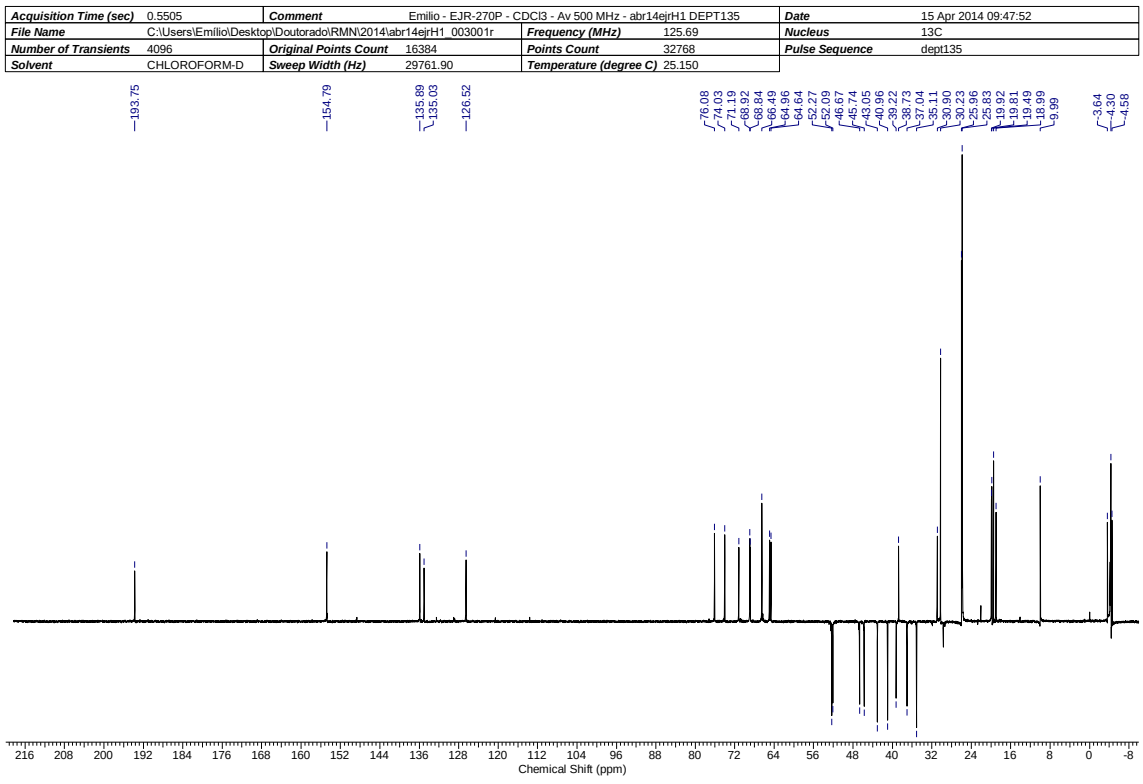
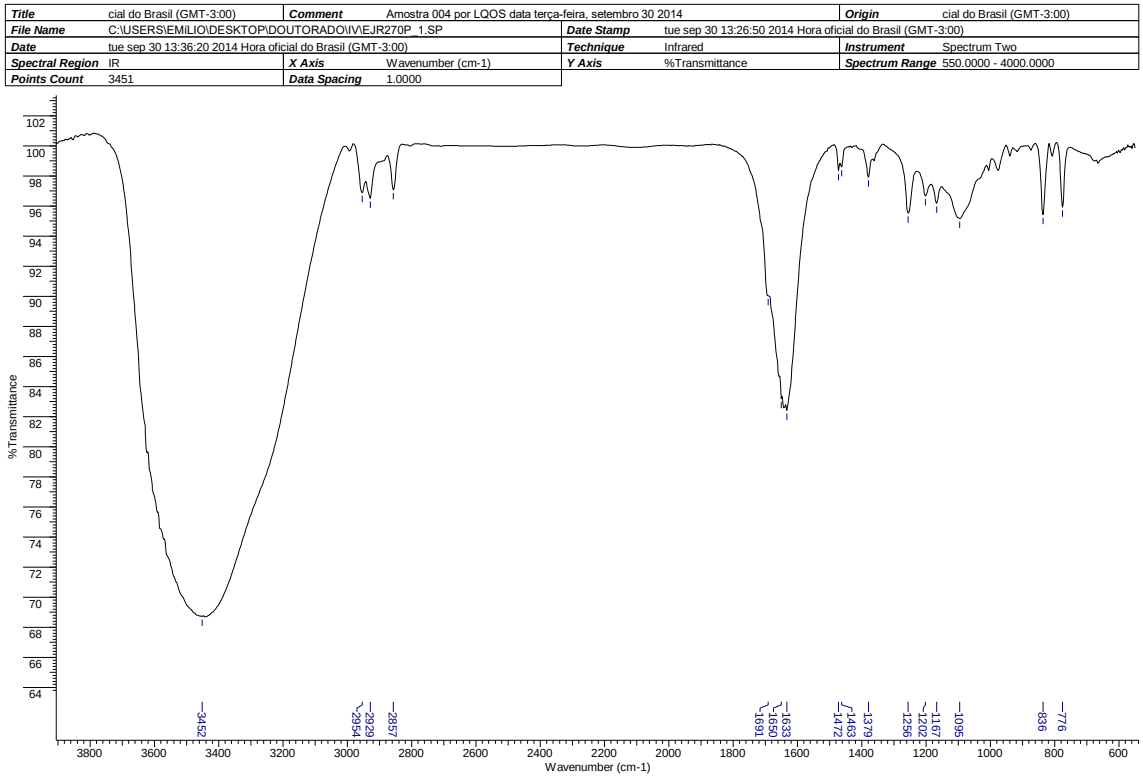


Figure S168: ^{13}C NMR (dept 135) spectrum of compound **7** (125 MHz; $CDCl_3$).



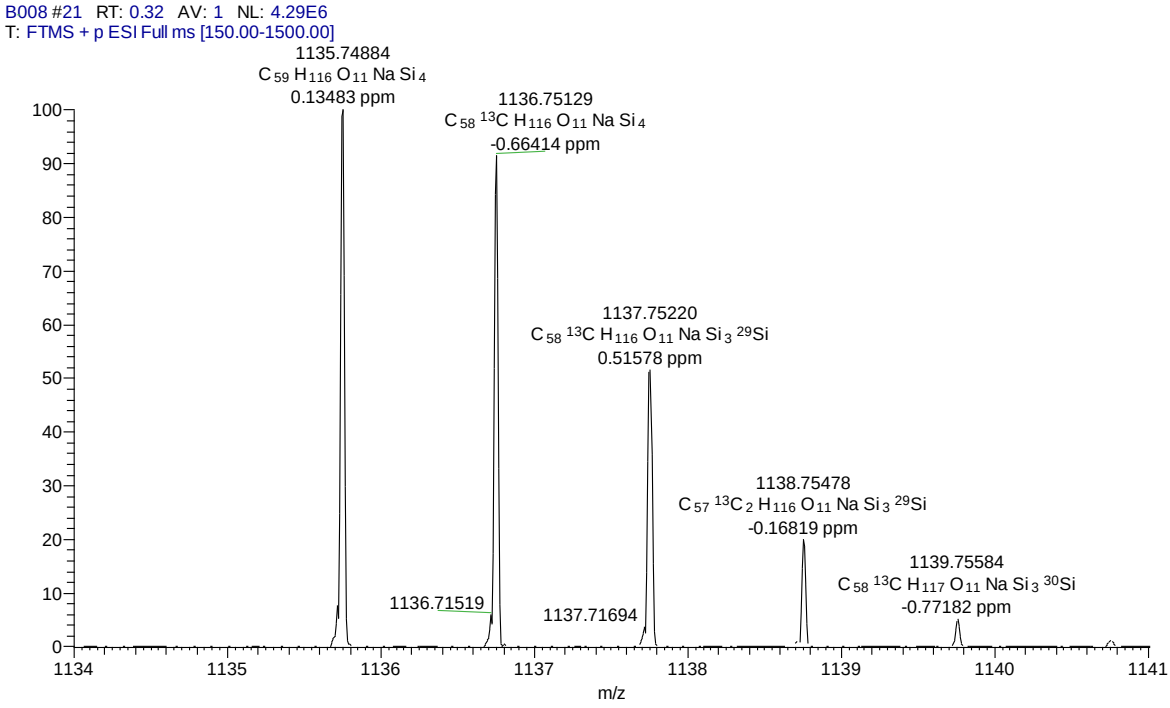


Figure S169: IR and HRMS (ESI FT-ICR-MS) spectra of compound **7**.

Copies of ^{1}H and ^{13}C NMR, IR, and HRMS spectra for fragments C1−C8 and C1−C35:

Acquisition Time (sec)	1.6384	***Comment***	Emilio - EJR 345 P - CDCl3 - Avance 500 MHz - ago18ecpH1 - 1H	***Date***	18 Aug 2014 14:35:22
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2014\ago18ejrH1_001001r	***Frequency (MHz)***	499.87	***Nucleus***	1H
Number of Transients	16	***Original Points Count***	16384	***Points Count***	65536	***Pulse Sequence***	zg30
Solvent	CHLOROFORM-D	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	25.151		

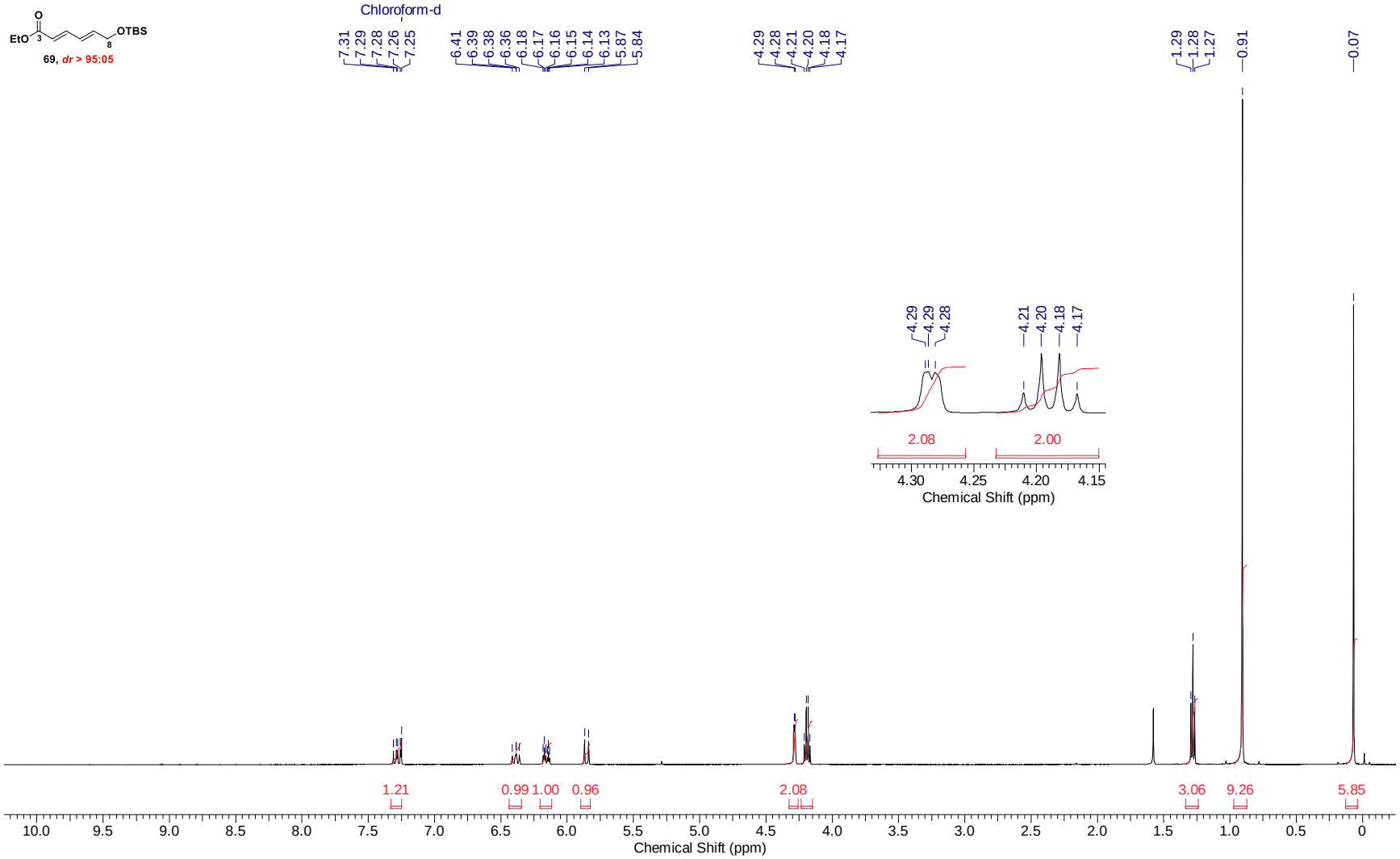


Figure S170: ^{1}H NMR spectrum of compound **69** (500 MHz; $CDCl_3$).

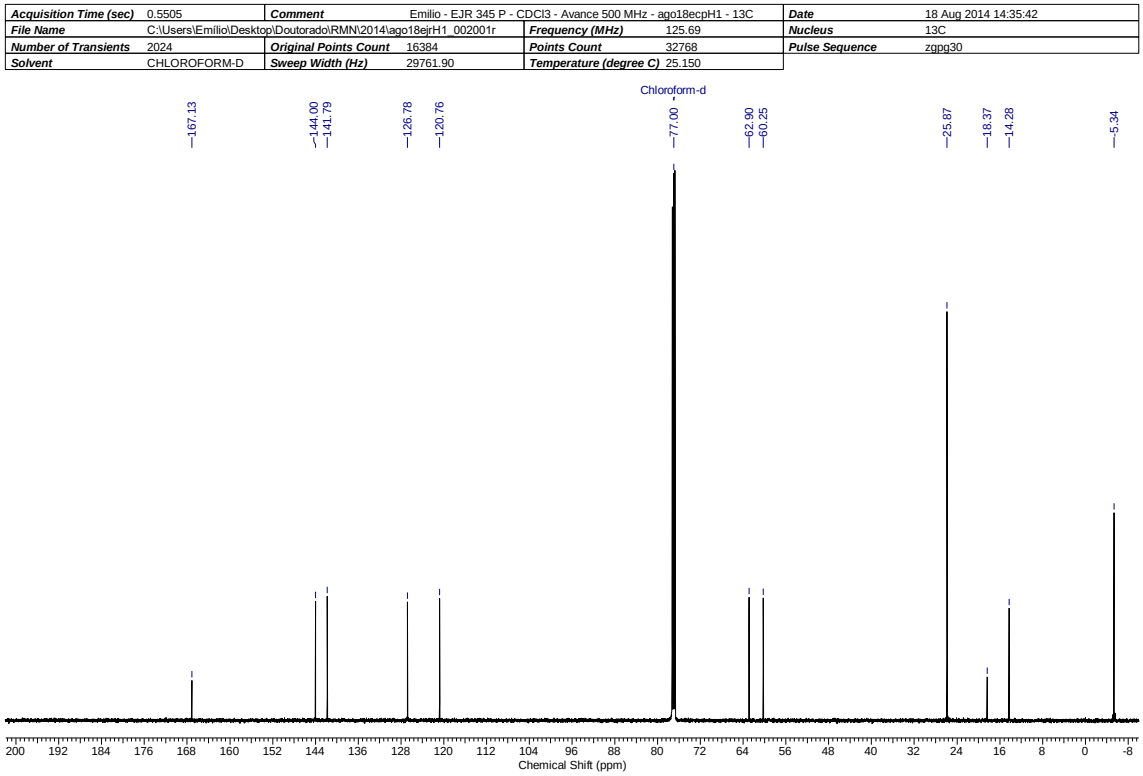


Figure S171: ^{13}C NMR spectrum of compound **69** (125 MHz; $CDCl_3$).

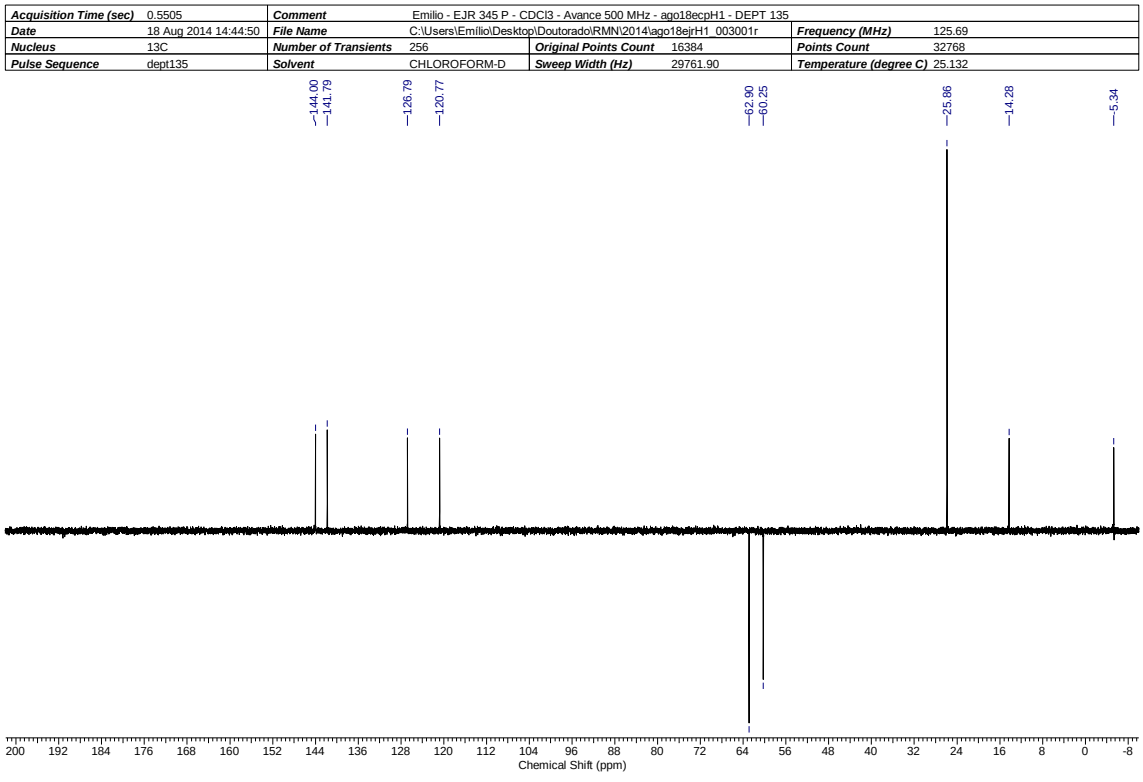


Figure S172: ^{13}C NMR (dept 135) spectrum of compound **69** (125 MHz; $CDCl_3$).

Title	cial do Brasil (GMT-3:00)	***Comment***	Amostra 008 por LQOS data terça-feira, setembro 30 2014			***Origin***	cial do Brasil (GMT-3:00)
File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IV\EJR345P_1.SP			***Date Stamp***	tue sep 30 13:55:37 2014 Hora oficial do Brasil (GMT-3:00)		
Date	tue sep 30 13:56:40 2014 Hora oficial do Brasil (GMT-3:00)			***Technique***	Infrared	***Instrument***	Spectrum Two
Spectral Region	IR	***X Axis***	Wavenumber (cm-1)	***Y Axis***	%Transmittance	***Spectrum Range***	550.0000 - 4000.0000
Points Count	3451	***Data Spacing***	1.0000				

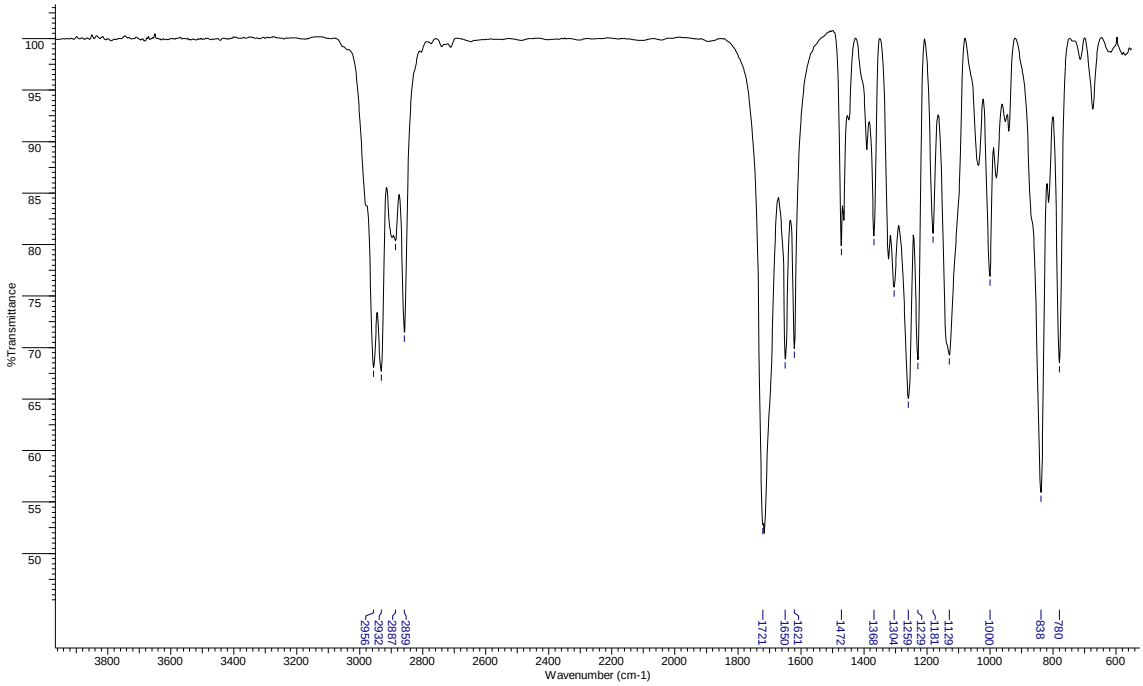


Figure S173: IR spectrum of compound **69**.

Acquisition Time (sec)	1.6384	***Comment***	Emilio - EJR-347 - CDCl3 - Av 500MHz - ago19ejrH1			***Date***	19 Aug 2014 15:32:28
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2014\ago19ejrH1_001001r			***Frequency (MHz)***	499.87	***Nucleus***	1H
Number of Transients	16	***Original Points Count***	16384	***Points Count***	65536	***Pulse Sequence***	zg30
Solvent	CHLOROFORM-D	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	25.159		

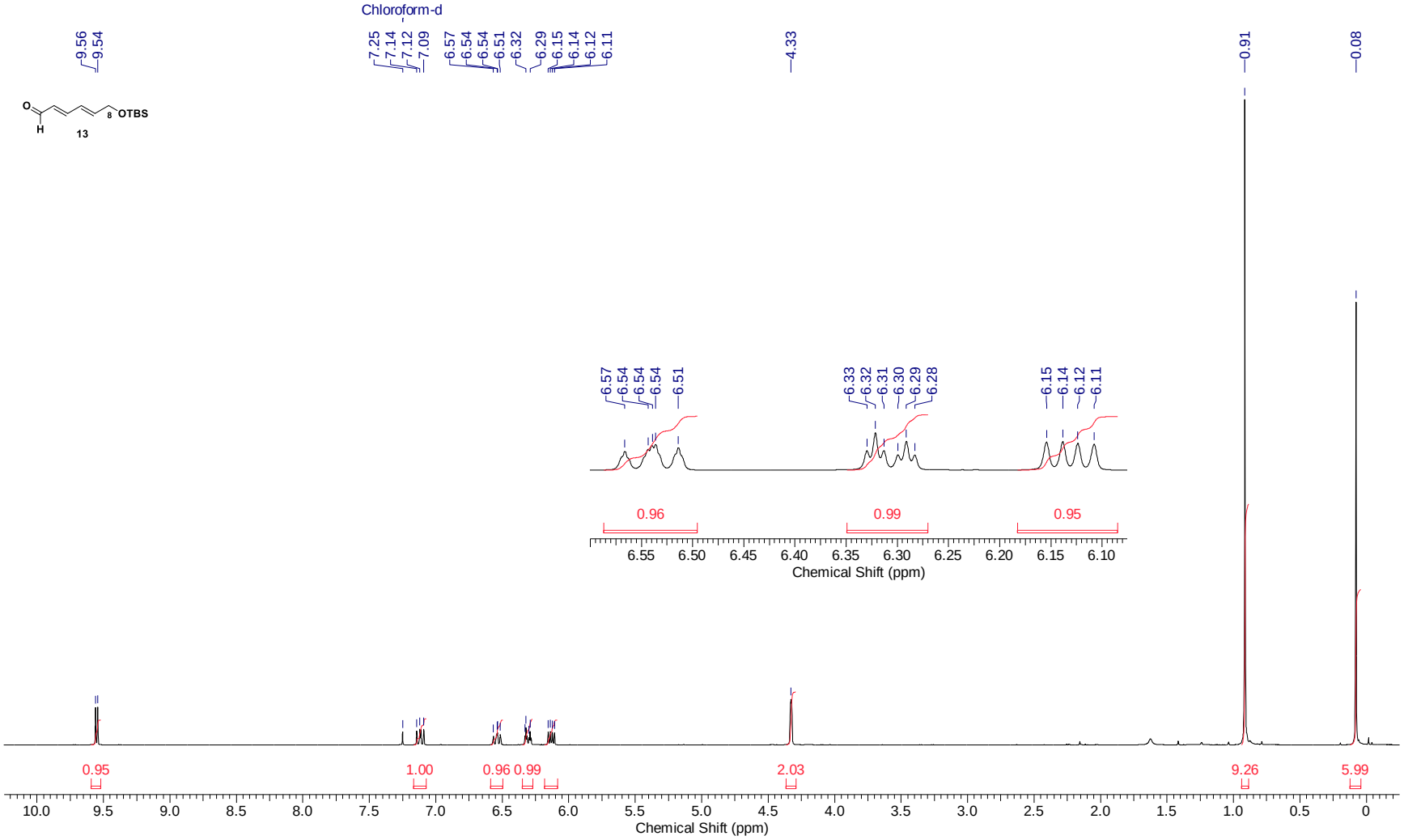


Figure S174: ^{1}H NMR spectrum of compound **13** (500 MHz; $CDCl_3$).

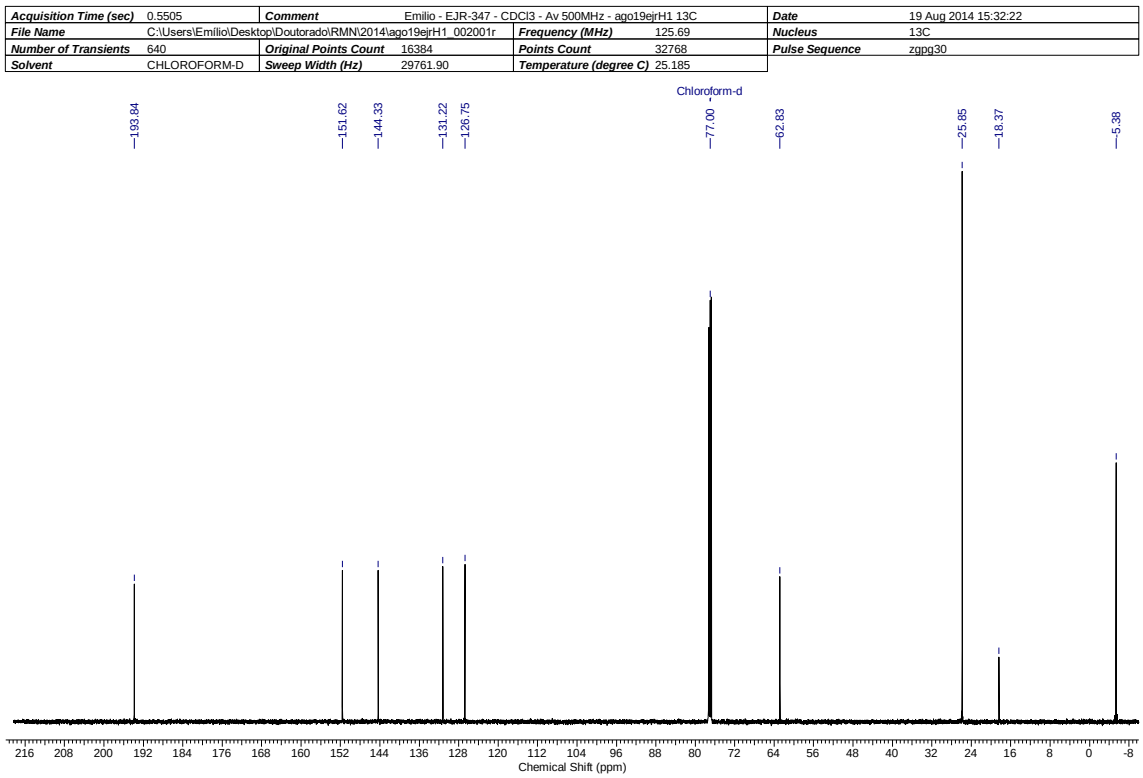


Figure S175: ^{13}C NMR spectrum of compound **13** (125 MHz; $CDCl_3$).

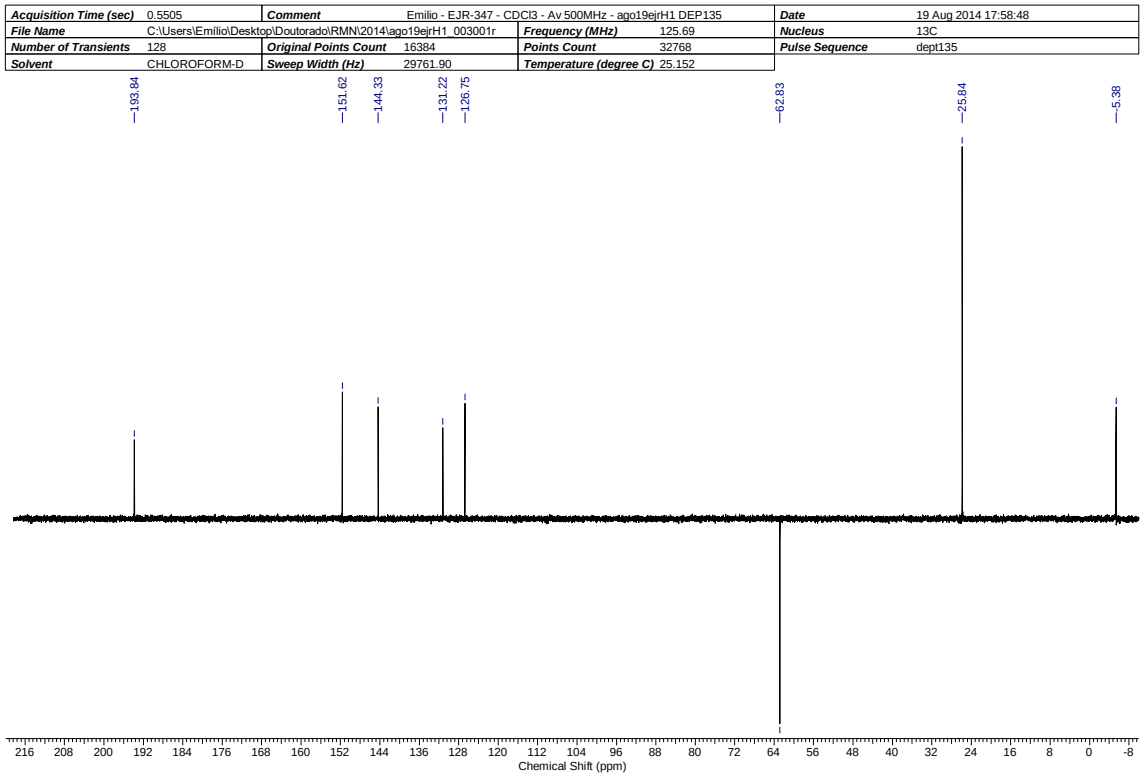


Figure S176: ^{13}C NMR (dept 135) spectrum of compound **13** (125 MHz; $CDCl_3$).

Title	cial do Brasil (GMT-3:00)	***Comment***	Amostra 010 por LQOS data terça-feira, setembro 30 2014			***Origin***	cial do Brasil (GMT-3:00)
File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IV\EJR347P_1.SP			***Date Stamp***	tue sep 30 14:10:58 2014 Hora oficial do Brasil (GMT-3:00)		
Date	tue sep 30 14:11:45 2014 Hora oficial do Brasil (GMT-3:00)			***Technique***	Infrared	***Instrument***	Spectrum Two
Spectral Region	IR	***X Axis***	Wavenumber (cm-1)	***Y Axis***	%Transmittance	***Spectrum Range***	550.0000 - 4000.0000
Points Count	3451	***Data Spacing***	1.0000				

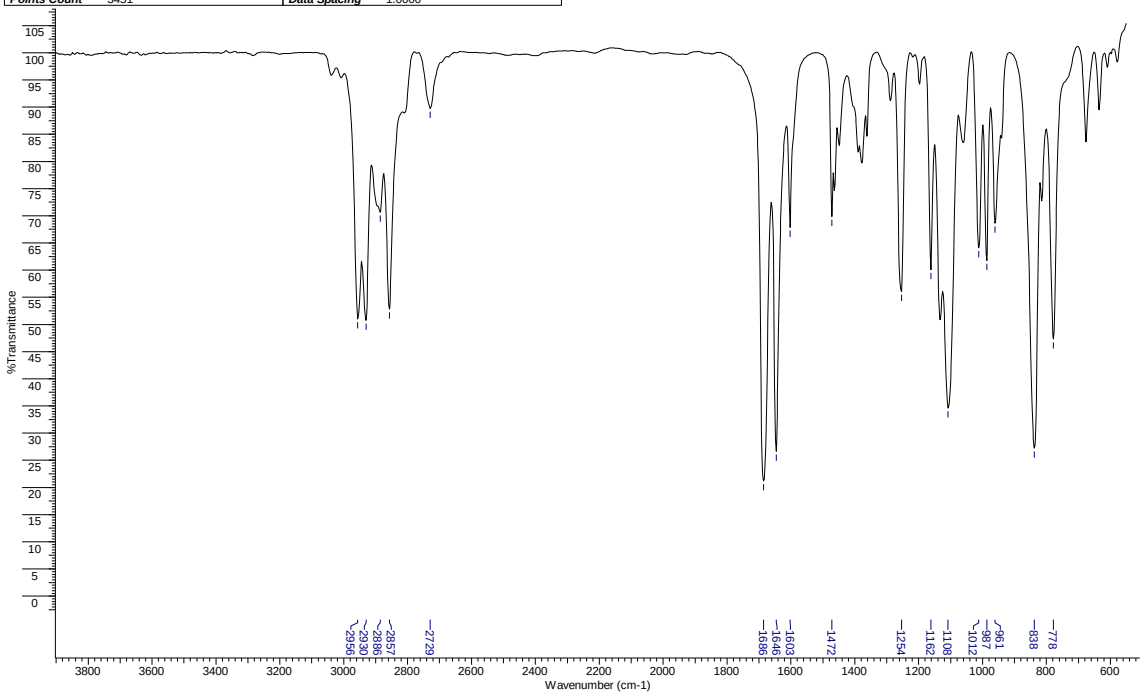


Figure S177: IR spectrum of compound **13**.

Acquisition Time (sec)	1.6384	***Comment***	Emilio - ERJ-424P - CDCl3 - Avance 500 MHz - fev13ejrH1 - 1H			***Date***	13 Feb 2015 11:06:32
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2015\fev13ejrH1_001001r			***Frequency (MHz)***	499.87	***Nucleus***	1H
Number of Transients	16	***Original Points Count***	16384	***Points Count***	65536	***Pulse Sequence***	zg30
Solvent	CHLOROFORM-D	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	25.144		

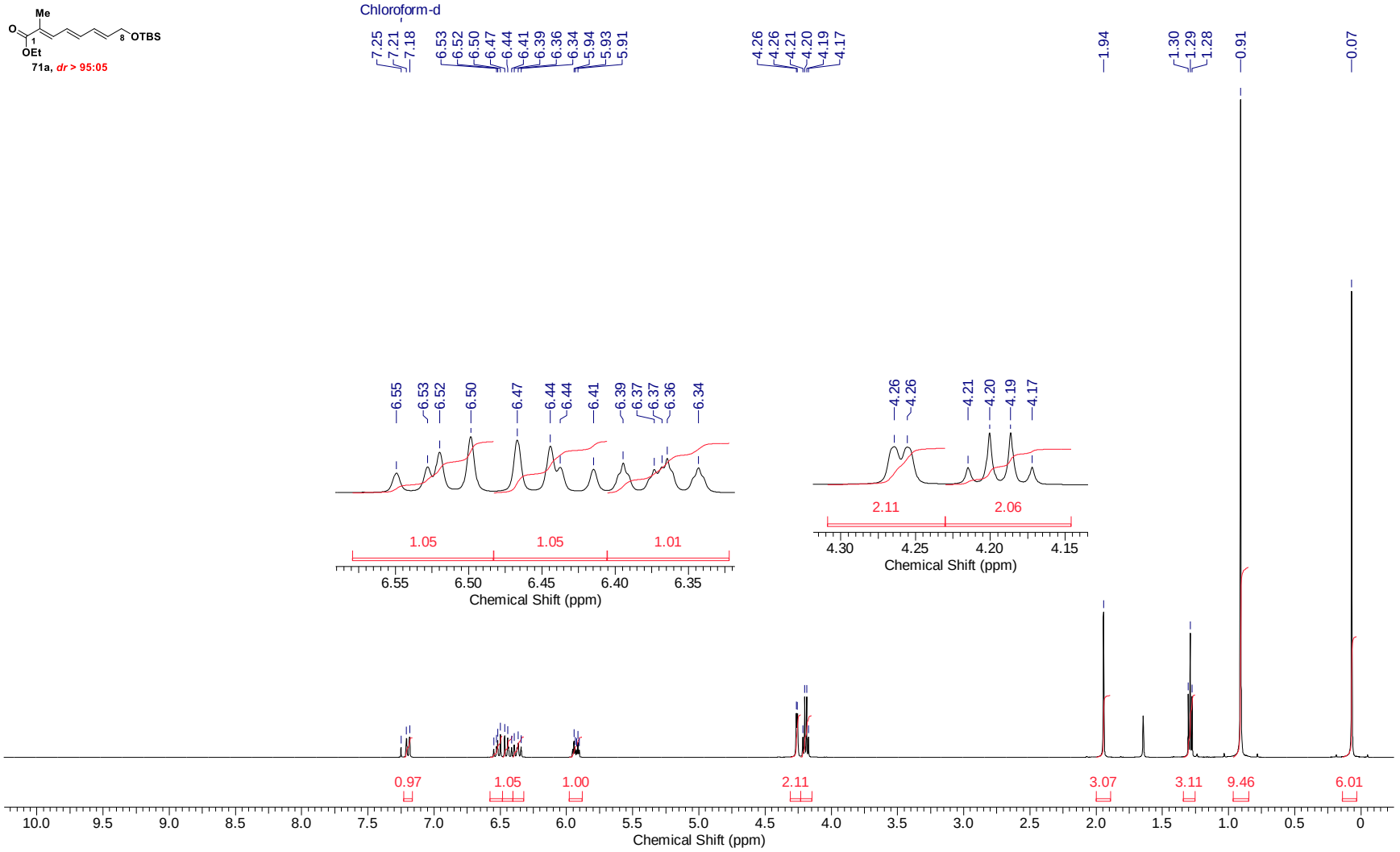


Figure S178: ^{1}H NMR spectrum of compound **71a** (500 MHz; $CDCl_3$).

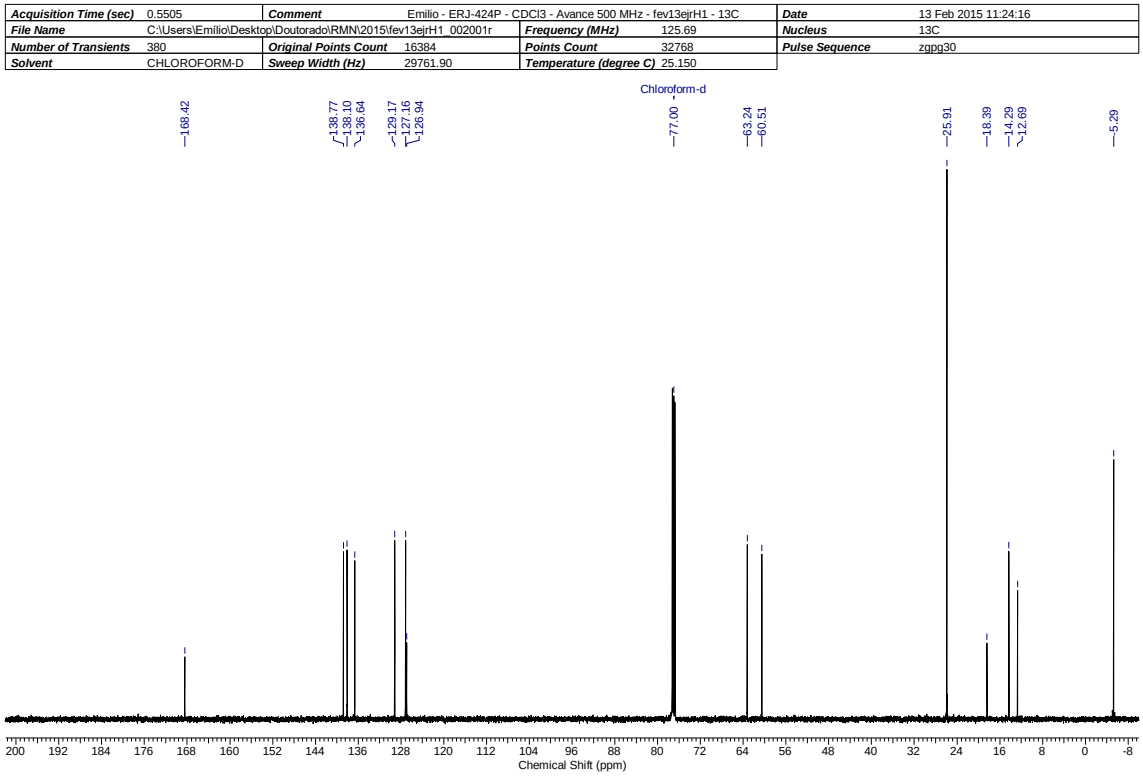


Figure S179: ^{13}C NMR spectrum of compound **71a** (125 MHz; $CDCl_3$).

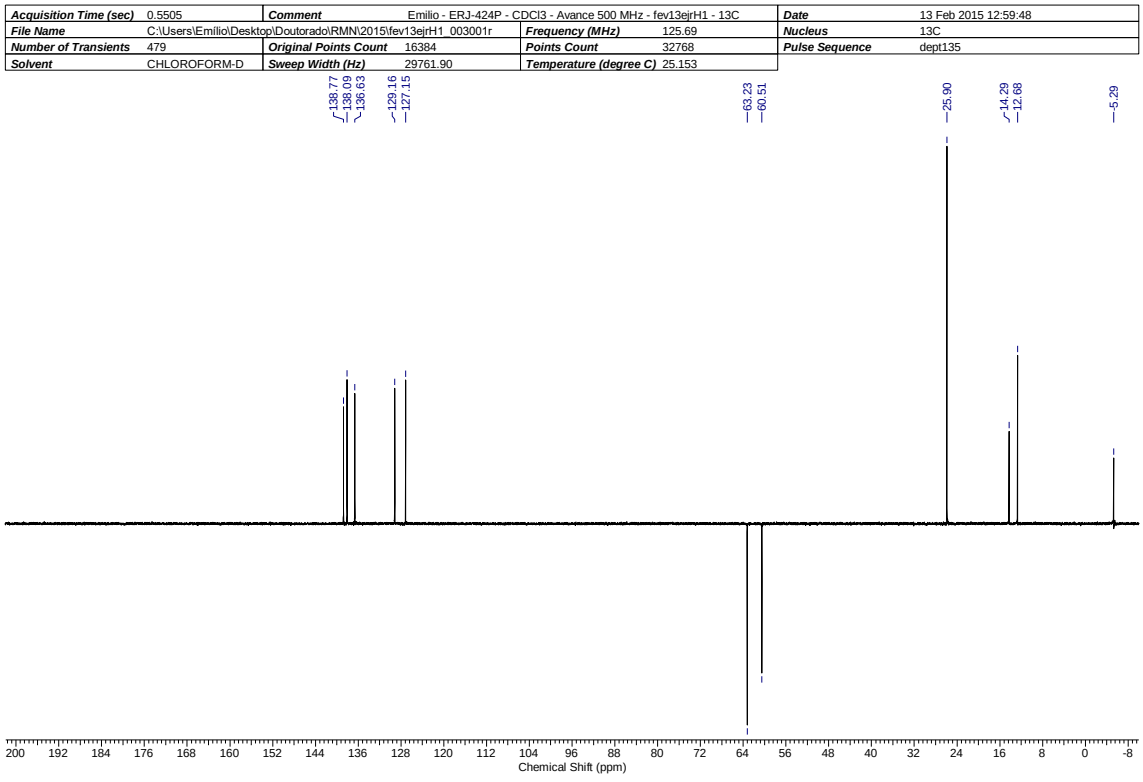


Figure S180: ^{13}C NMR (dept 135) spectrum of compound **71a** (125 MHz; $CDCl_3$).

Title	brasileiro de verão (GMT-2:00)	***Comment***	Amostra 001 por LQOS data sábado, fevereiro 21 2015		
Origin	brasileiro de verão (GMT-2:00)	***File Name***	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IV\EJR424P_1.SP		
Date Stamp	sat feb 21 18:25:39 2015 Horário brasileiro de verão (GMT-2:00)			***Date***	sat feb 21 18:26:45 2015 Horário brasileiro de verão (GMT-2:00)
Technique	Infrared	***Instrument***	Spectrum Two	***Spectral Region***	IR
X Axis	Wavenumber (cm-1)	***Y Axis***	%Transmittance	***Spectrum Range***	550.0000 - 4000.0000
Points Count	3451	***Data Spacing***	1.0000		

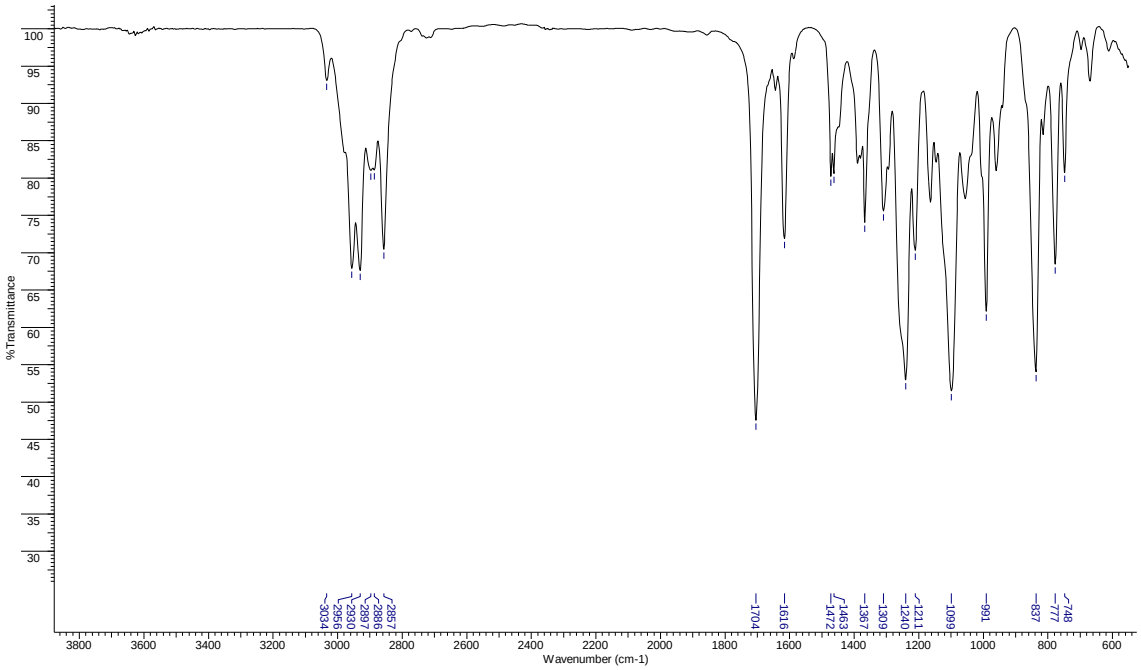


Figure S181: IR spectrum of compound **71a**.

Acquisition Time (sec)	1.6384	***Comment***	Emilio - EJR-425P - CDCl3 - Av 500MHz - fev20ejrH1			***Date***	20 Feb 2015 13:48:58
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2015\fev20ejrH1_001001r			***Frequency (MHz)***	499.87	***Nucleus***	1H
Number of Transients	16	***Original Points Count***	16384	***Points Count***	65536	***Pulse Sequence***	zg30
Solvent	CHLOROFORM-D	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	25.143		

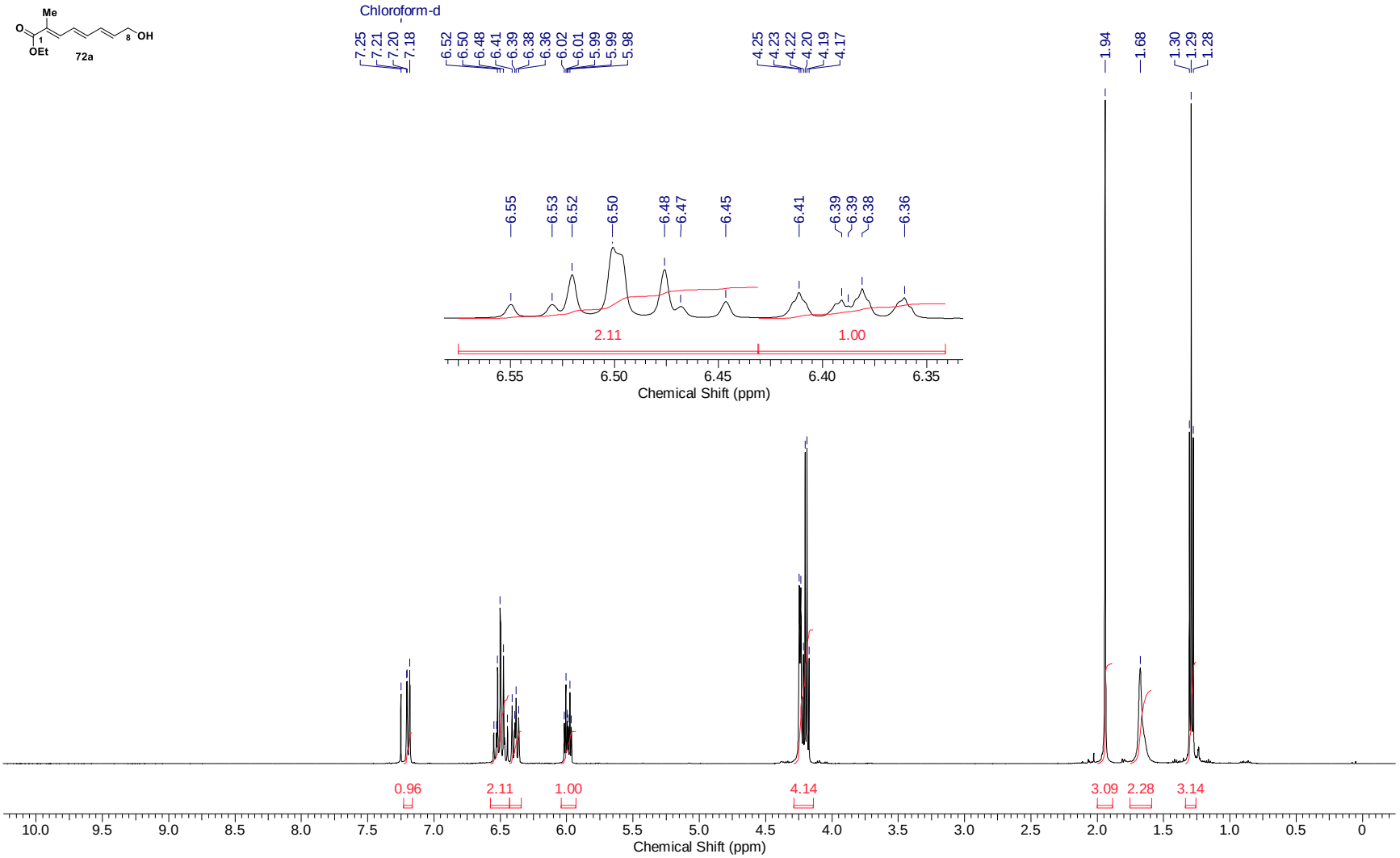


Figure S182: ^{1}H NMR spectrum of compound **72a** (500 MHz; $CDCl_3$).

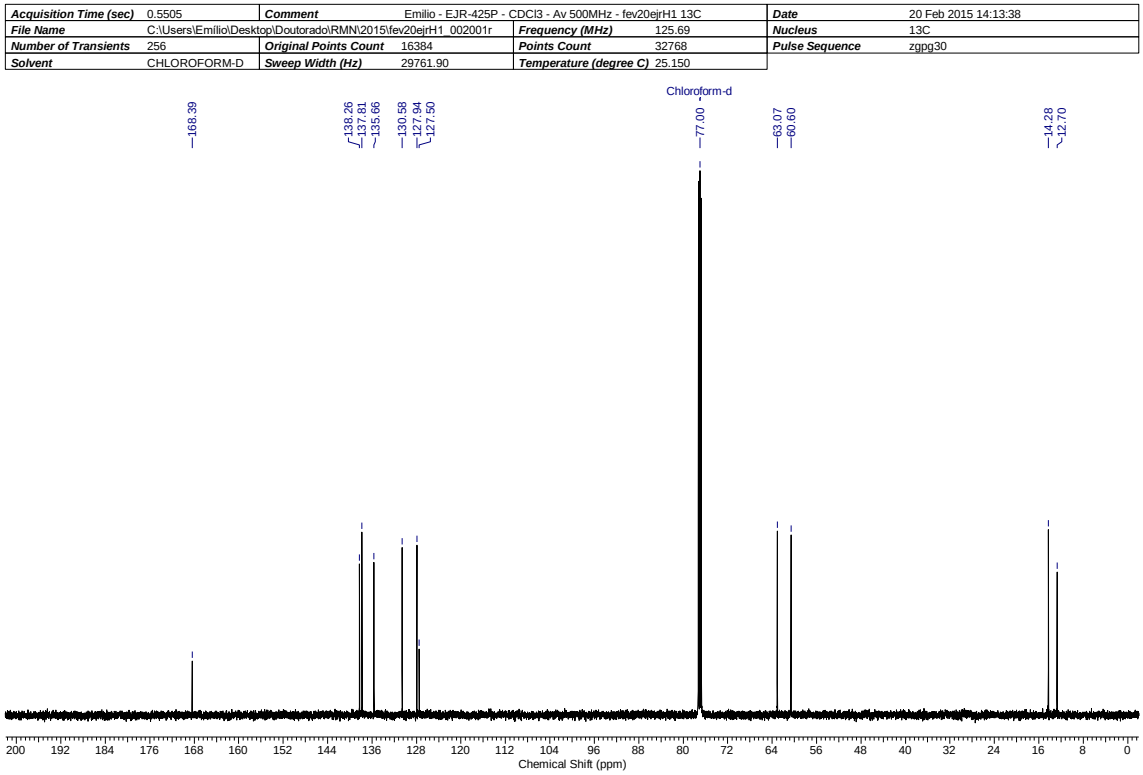


Figure S183: ^{13}C NMR spectrum of compound **72a** (125 MHz; $CDCl_3$).

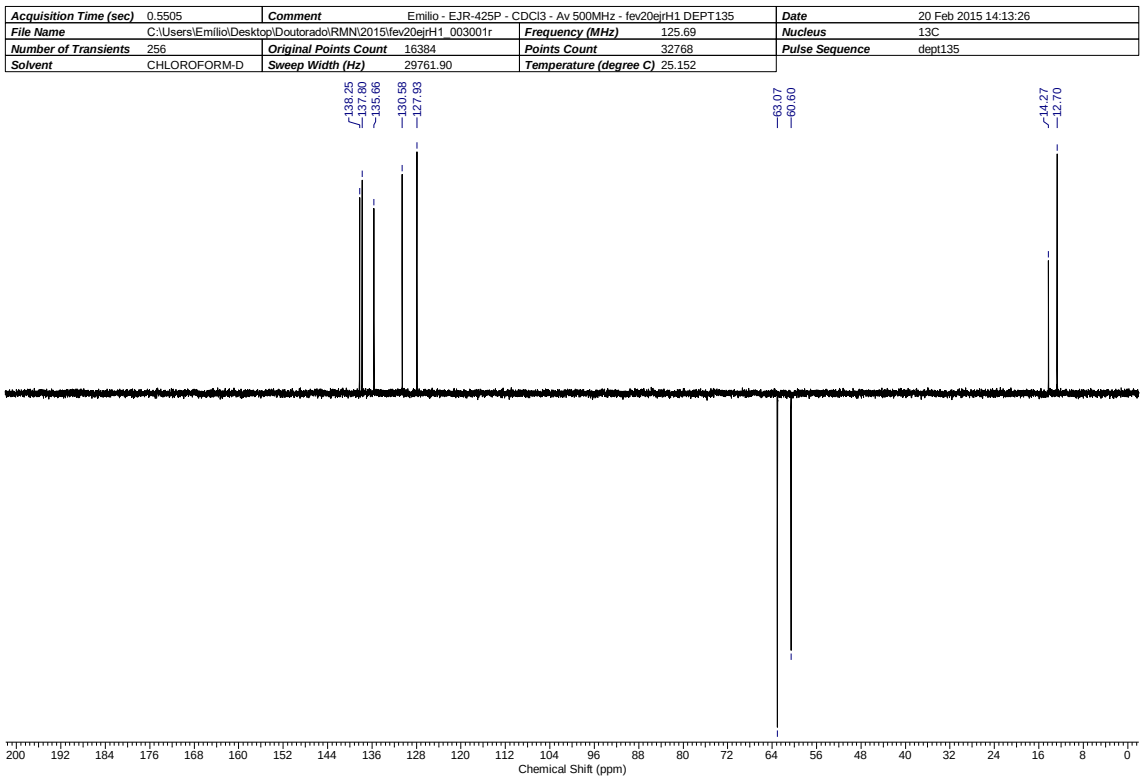


Figure S184: ^{13}C NMR (dept 135) spectrum of compound **72a** (125 MHz; $CDCl_3$).

Title	brasileiro de verão (GMT-2:00)	***Comment***	Amostra 002 por LQOS data sábado, fevereiro 21 2015		
Origin	brasileiro de verão (GMT-2:00)	***File Name***	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IV\EJR425_1.SP		
Date Stamp	sat feb 21 18:35:07 2015 Horário brasileiro de verão (GMT-2:00)			***Date***	sat feb 21 18:35:56 2015 Horário brasileiro de verão (GMT-2:00)
Technique	Infrared	***Instrument***	Spectrum Two	***Spectral Region***	IR
X Axis	Wavenumber (cm-1)	***Y Axis***	%Transmittance	***Spectrum Range***	550.0000 - 4000.0000
Points Count	3451	***Data Spacing***	1.0000		

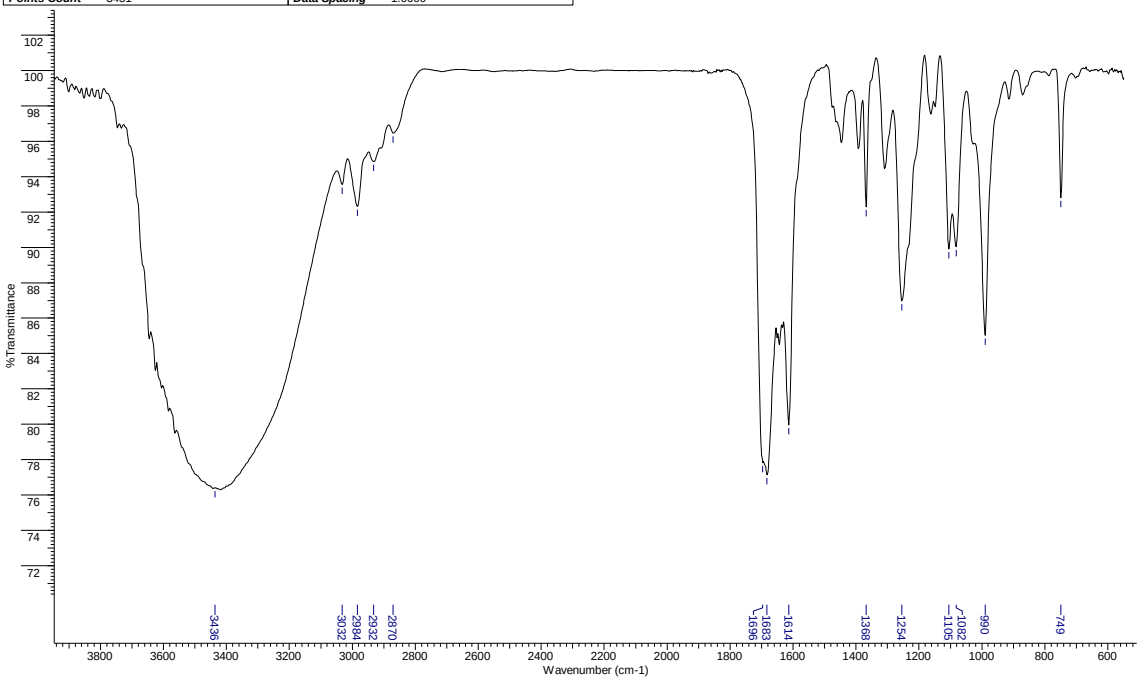


Figure S185: IR spectrum of compound **72a**.

Acquisition Time (sec)	1.6384	***Comment***	Emilio "EJR-427P" cdcl3/ Av500MHz mar25ejrH1			***Date***	26 Mar 2015 07:47:44
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2015\mar25ejrH1_001001r					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	25.143

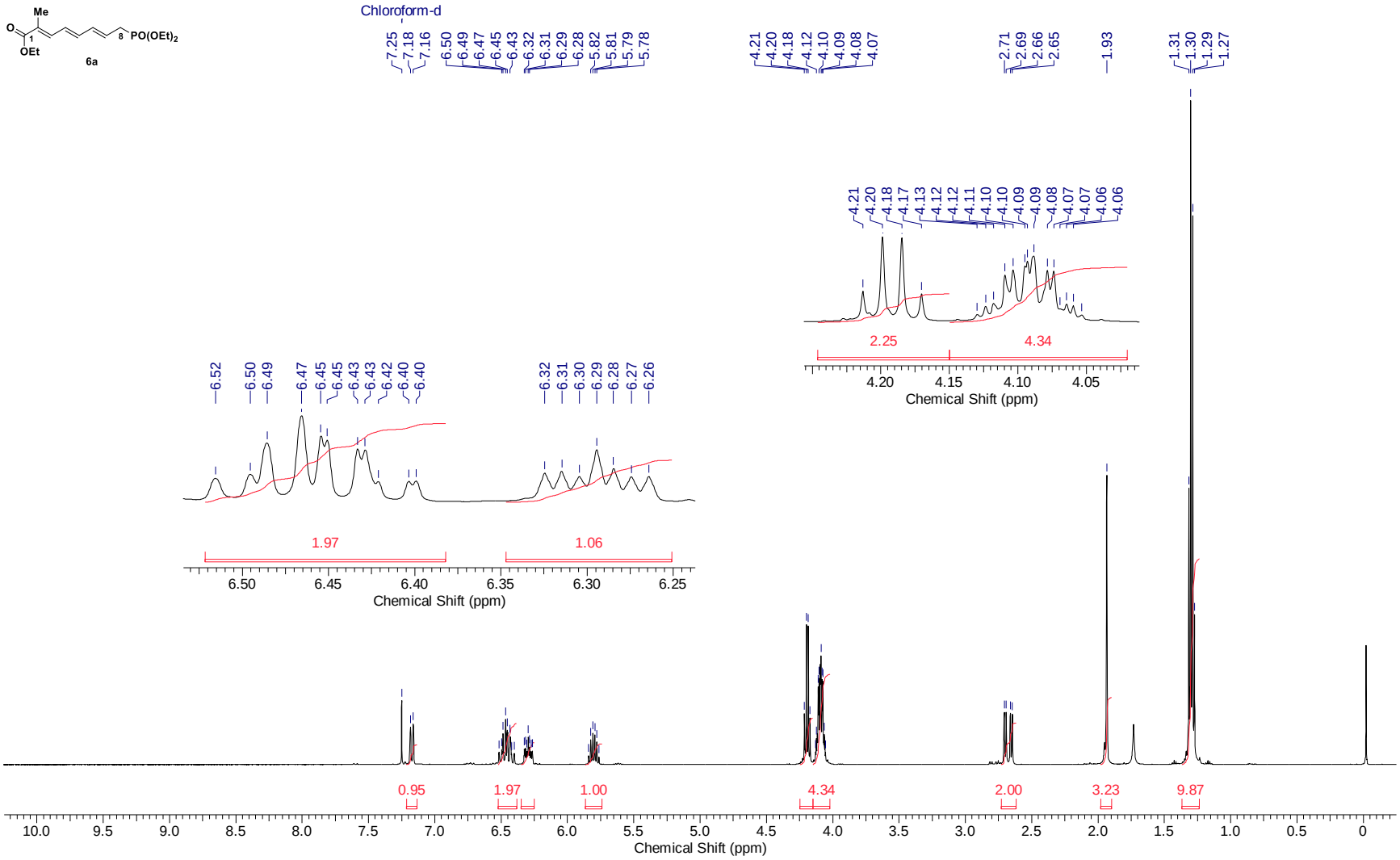


Figure S186: ^{1}H NMR spectrum of compound **6a** (500 MHz; $CDCl_3$).

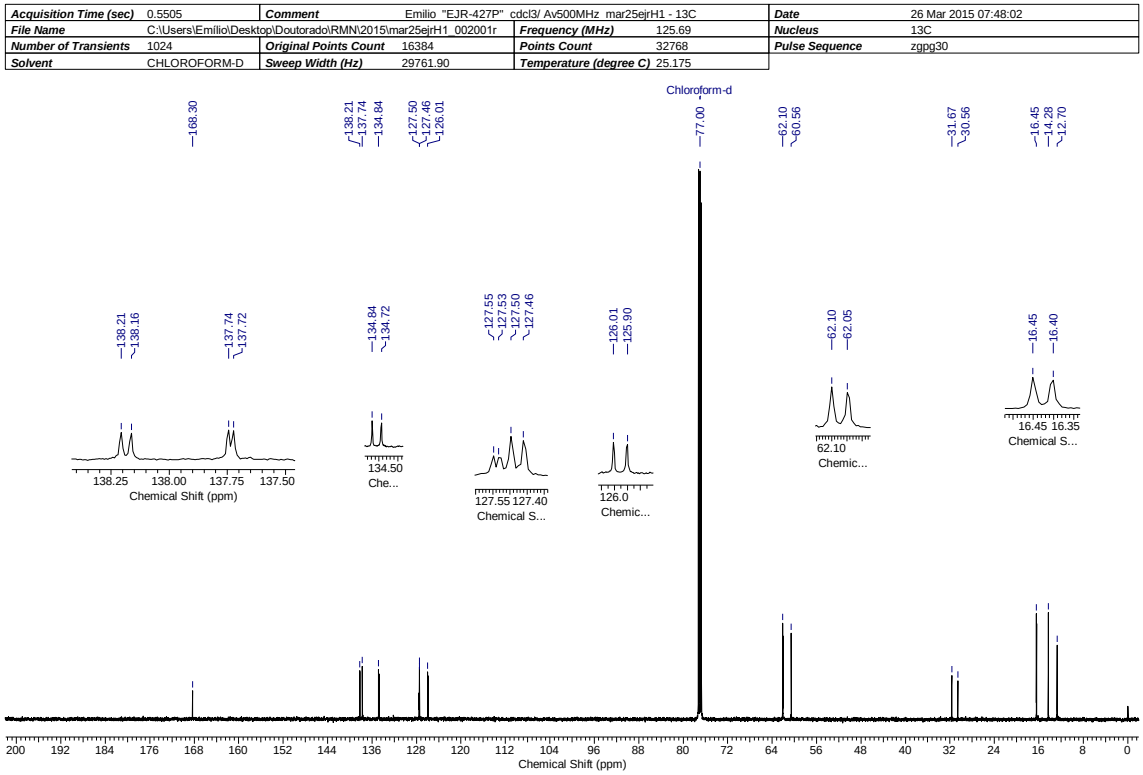


Figure S187: ^{13}C NMR spectrum of compound **6a** (125 MHz; $CDCl_3$).

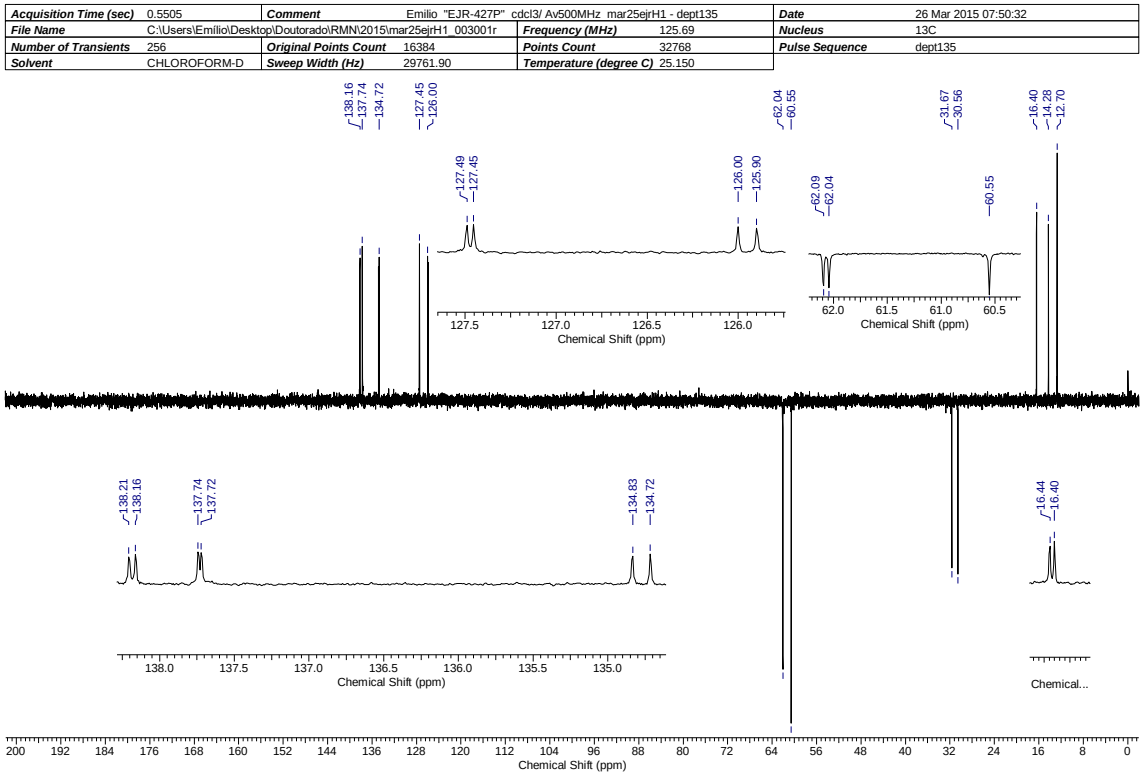


Figure S188: ^{13}C NMR (dept 135) spectrum of compound **6a** (125 MHz; $CDCl_3$).

Acquisition Time (sec)	1.5903	***Date***	28 Mar 2014 08:47:14				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2014\mar27ejrH1_001001r					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D			***Sweep Width (Hz)***	10302.20
Temperature (degree C)	25.155						

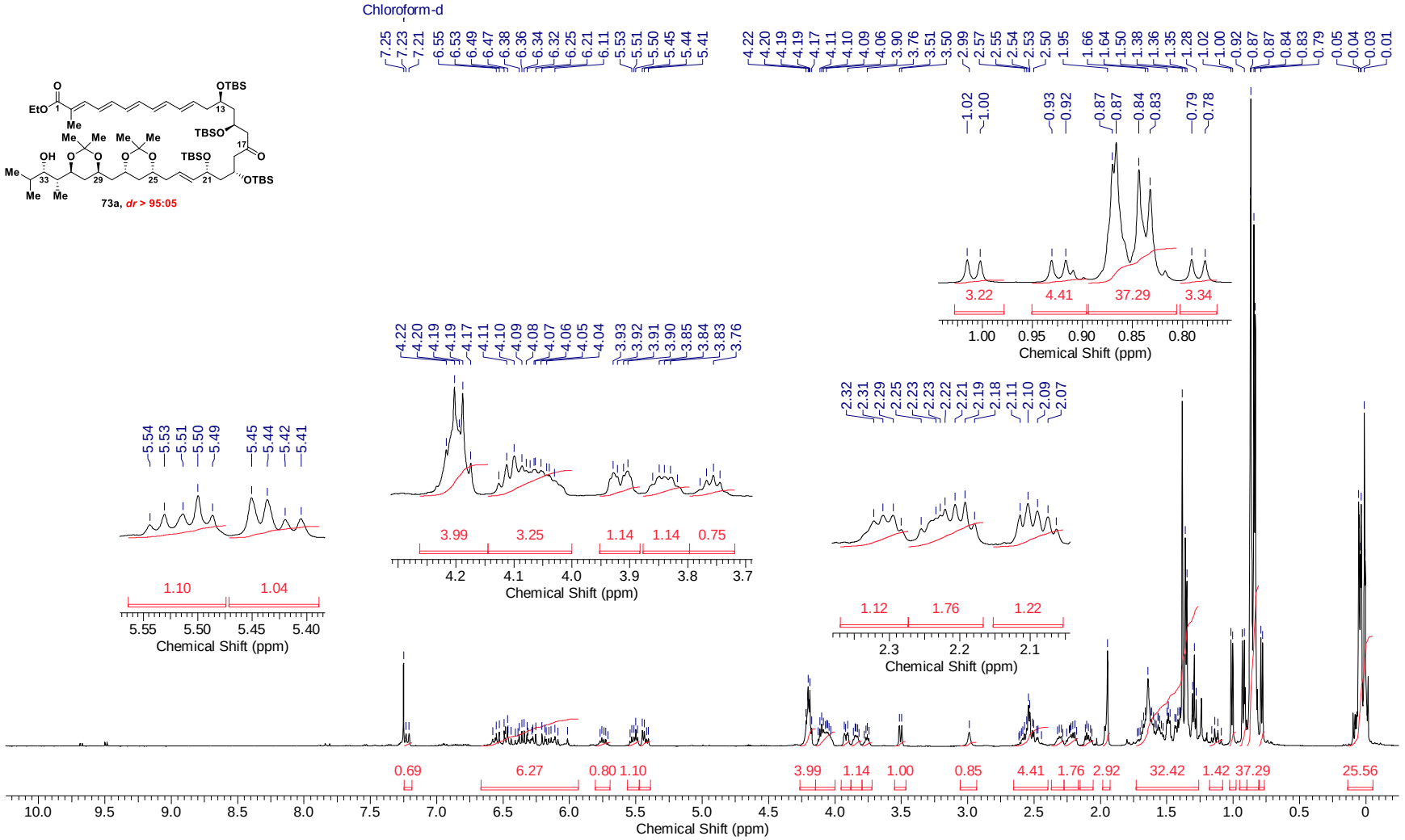


Figure S189: ^{1}H NMR spectrum of compound **73a** (500 MHz; $CDCl_3$).

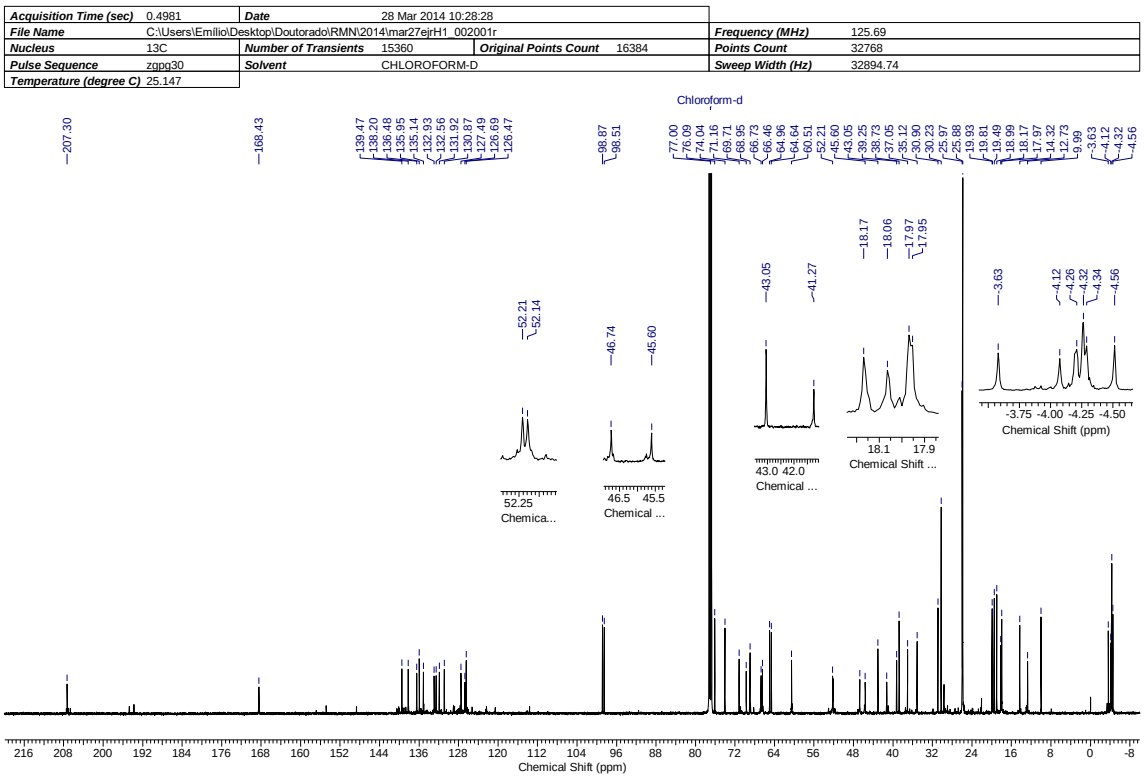


Figure S190: ^{13}C NMR spectrum of compound **73a** (125 MHz; $CDCl_3$).

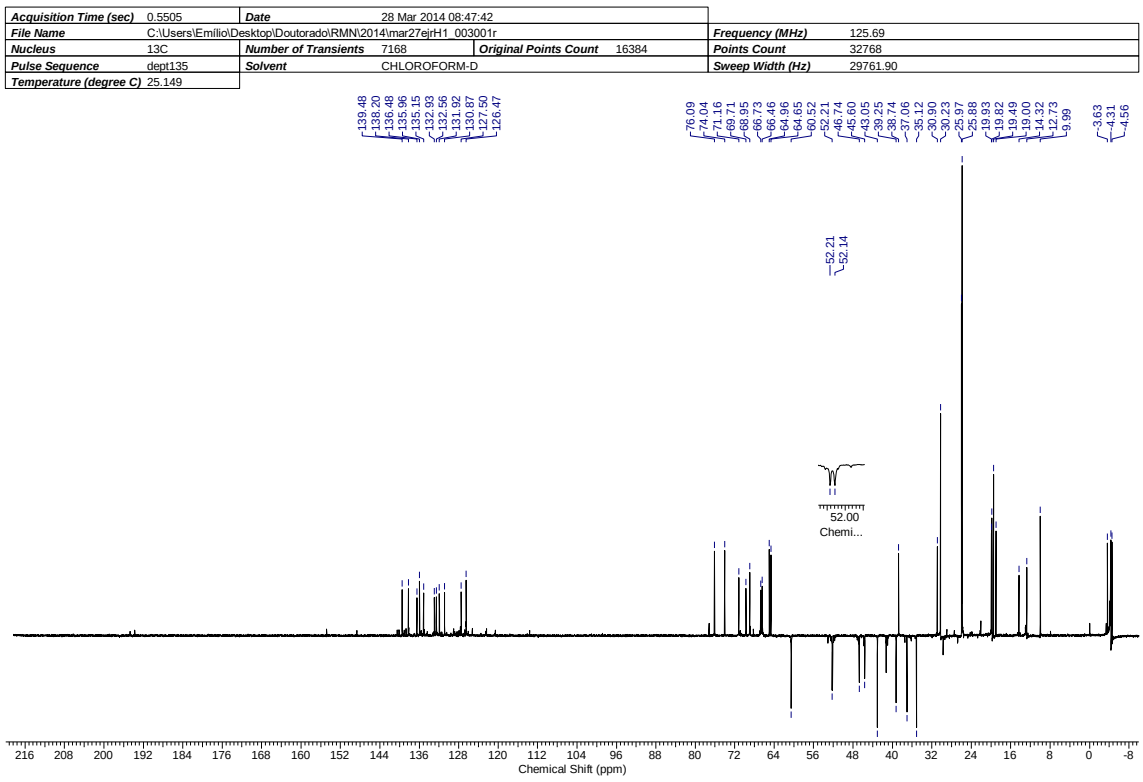


Figure S191: ^{13}C NMR (dept 135) spectrum of compound **73a** (125 MHz; $CDCl_3$).

Acquisition Time (sec)	1.6384	***Comment***	Emilio - EJR-407P - CDCl3 - Av 500MHz - jan08ejrH1			***Date***	08 Jan 2015 10:09:44
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2015\jan08ejrH1_001001r			***Frequency (MHz)***	499.87	***Nucleus***	1H
Number of Transients	16	***Original Points Count***	16384	***Points Count***	65536	***Pulse Sequence***	zg30
Solvent	CHLOROFORM-D	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	25.136		

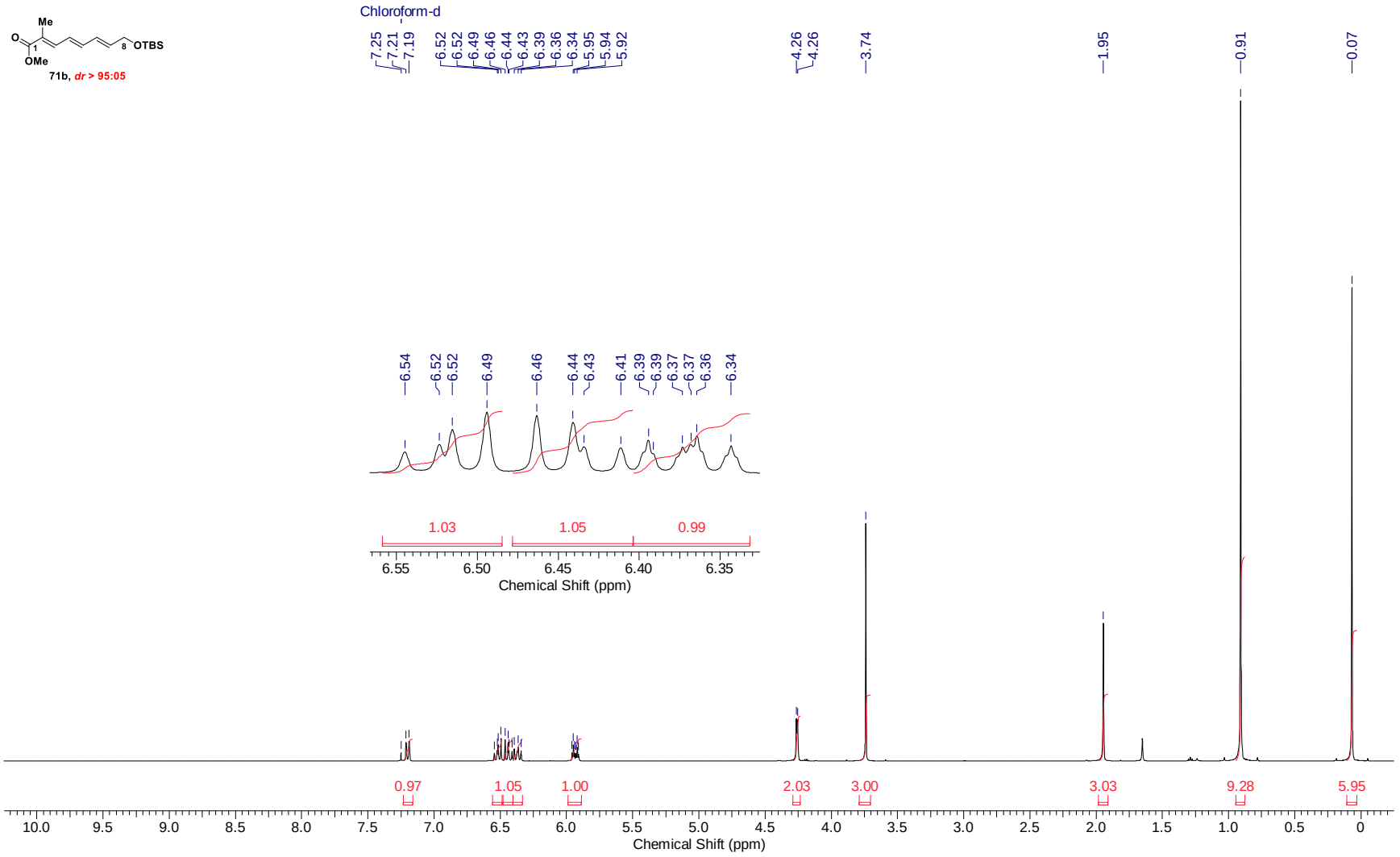


Figure S192: ^{1}H NMR spectrum of compound **71b** (500 MHz; $CDCl_3$).

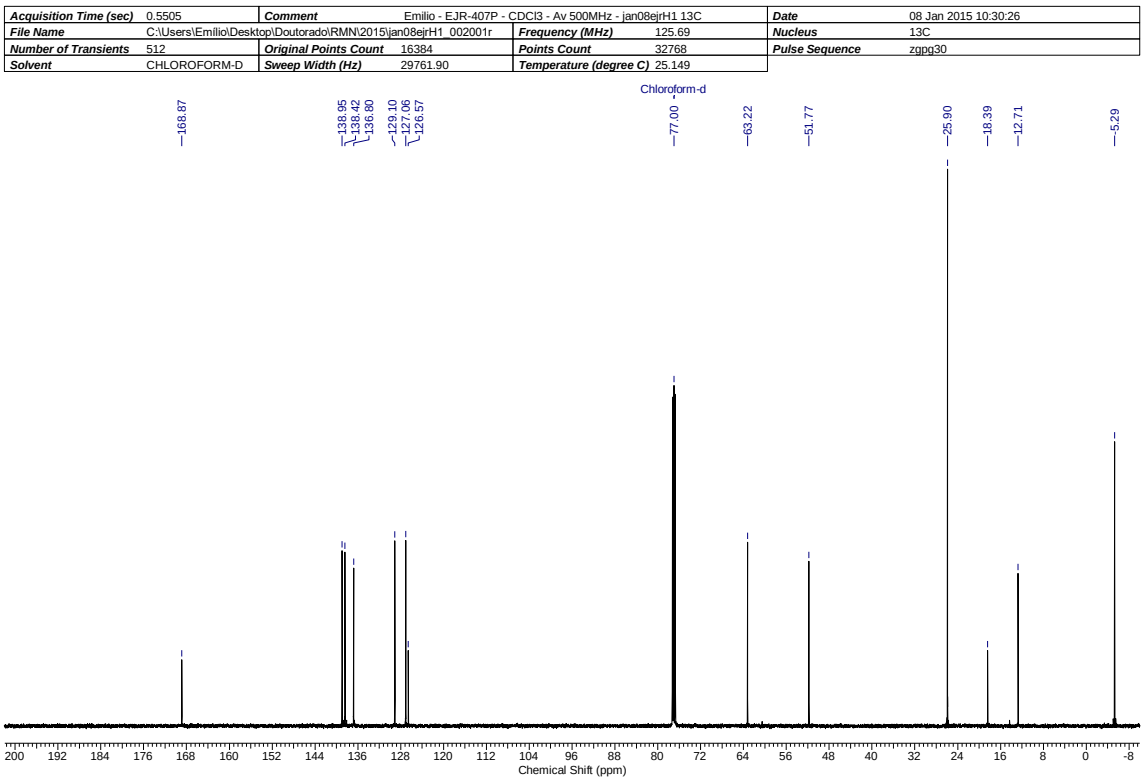


Figure S193: ^{13}C NMR spectrum of compound **71b** (125 MHz; $CDCl_3$).

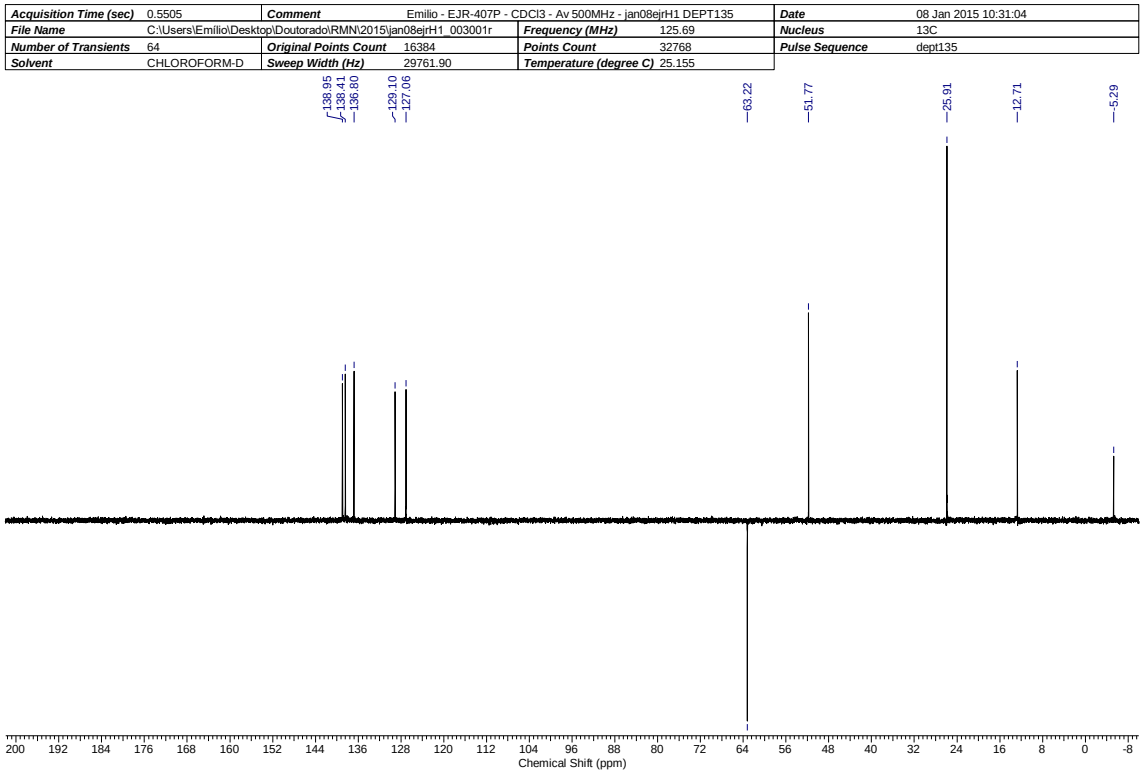


Figure S194: ^{13}C NMR (dept 135) spectrum of compound **71b** (125 MHz; $CDCl_3$).

Title	brasileiro de verão (GMT-2:00)	***Comment***	Amostra 049 por LQOS data sexta-feira, janeiro 09 2015		
Origin	brasileiro de verão (GMT-2:00)	***File Name***	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IV\EJR407P_1.SP		
Date Stamp	fri jan 09 10:59:57 2015 Horário brasileiro de verão (GMT-2:00)			***Date***	fri jan 09 11:01:14 2015 Horário brasileiro de verão (GMT-2:00)
Technique	Infrared	***Instrument***	Spectrum Two	***Spectral Region***	IR
X Axis	Wavenumber (cm-1)	***Y Axis***	%Transmittance	***Spectrum Range***	550.0000 - 4000.0000
Points Count	3451	***Data Spacing***	1.0000		

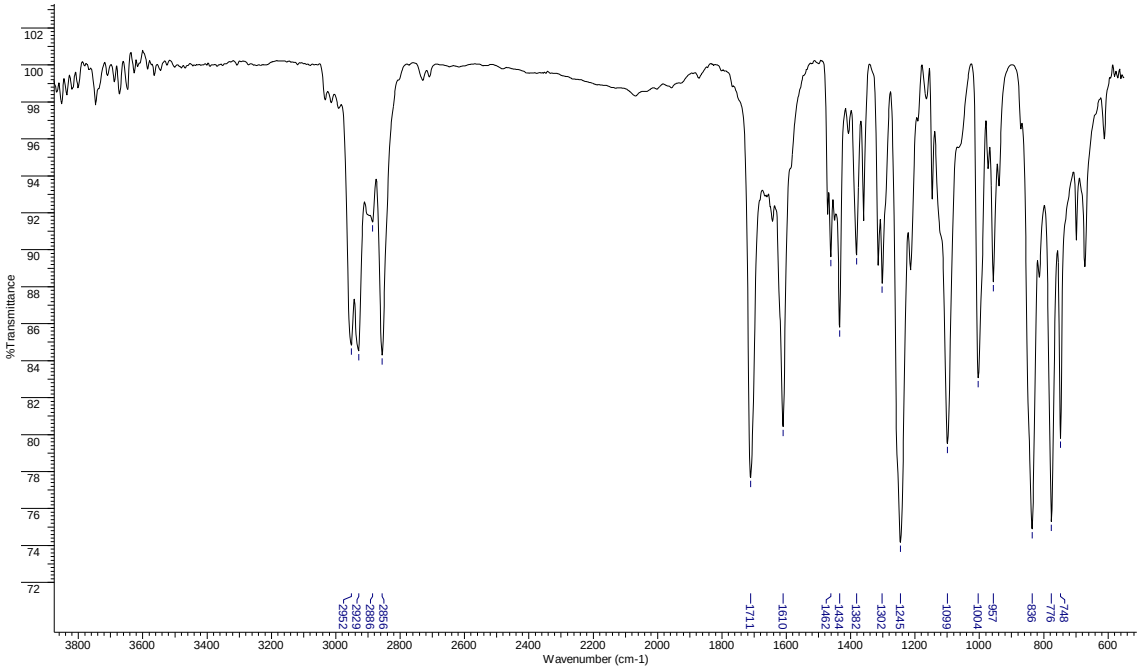


Figure S195: IR spectrum of compound **71b**.

Acquisition Time (sec)	1.6384	***Comment***	Emilio - EJR 410-P - CDCl3 - Av 500MHz - jan30ejrH1			***Date***	30 Jan 2015 09:59:18
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2015\jan30ejrH1_001001r			***Frequency (MHz)***	499.87	***Nucleus***	1H
Number of Transients	16	***Original Points Count***	16384	***Points Count***	65536	***Pulse Sequence***	zg30
Solvent	CHLOROFORM-D	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	20.150		

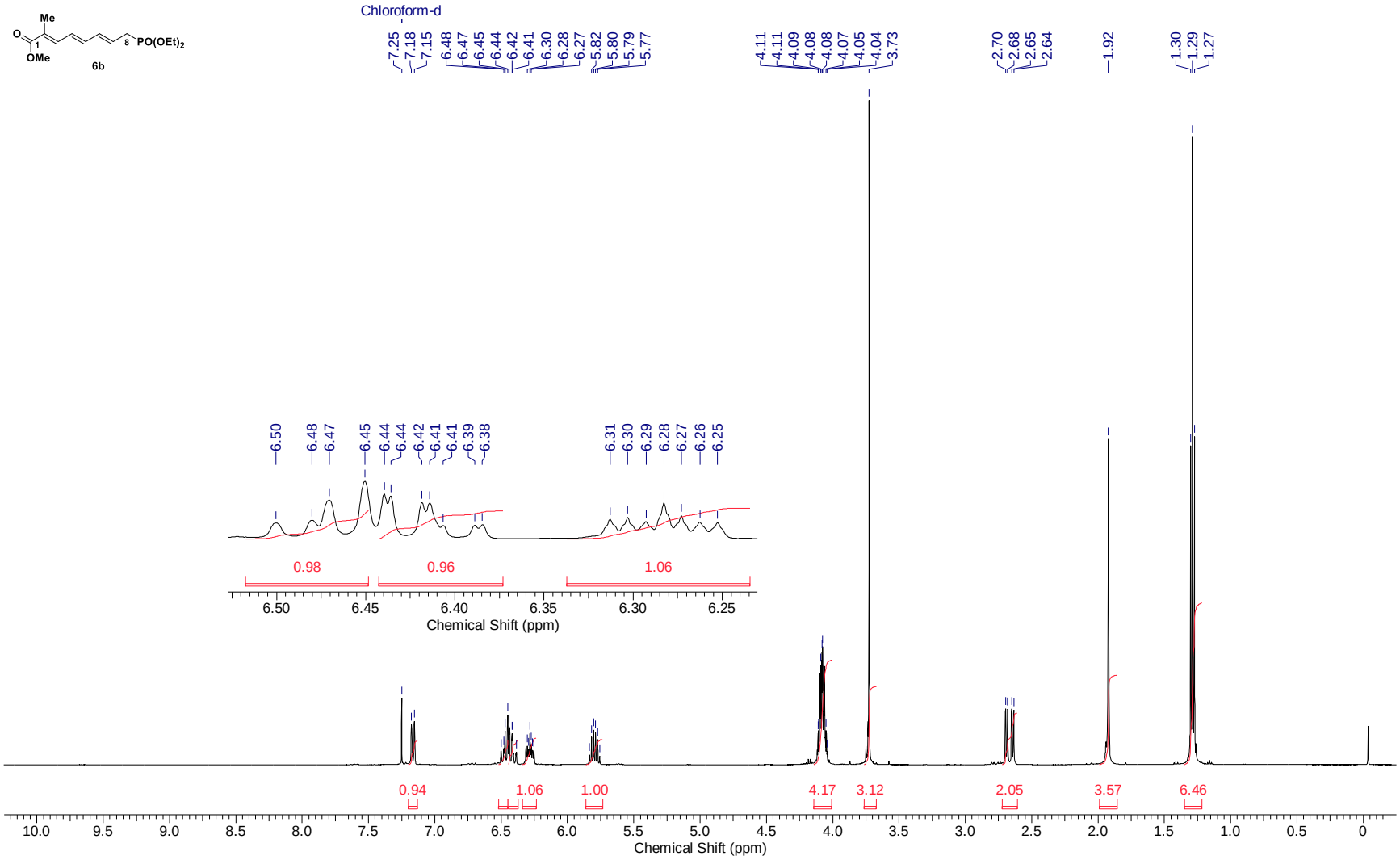


Figure S196: ^{1}H NMR spectrum of compound **6b** (500 MHz; $CDCl_3$).

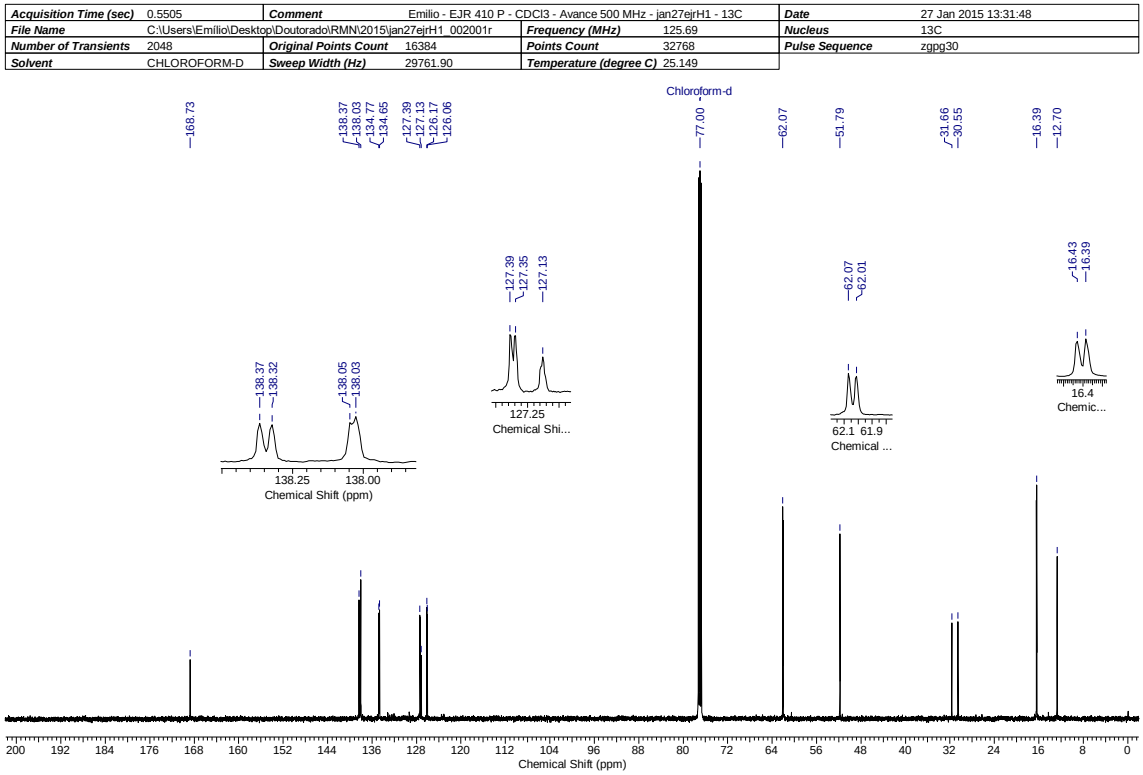


Figure S197: ^{13}C NMR spectrum of compound **6b** (125 MHz; $CDCl_3$).

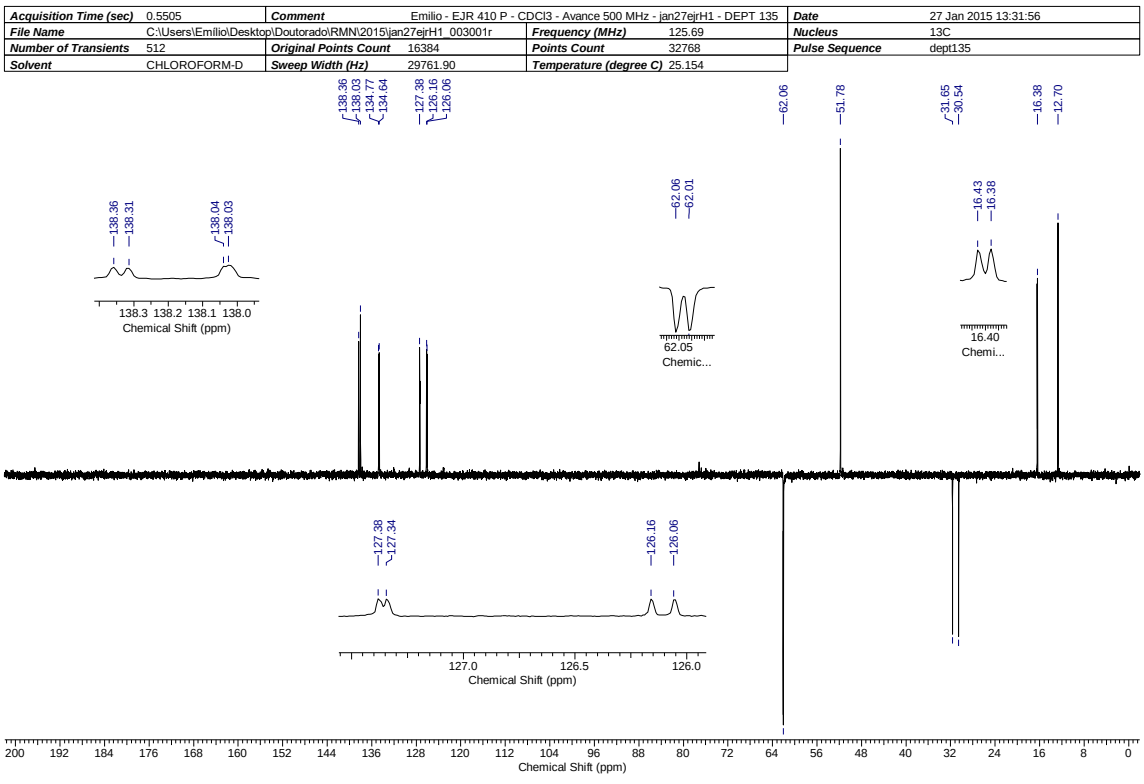
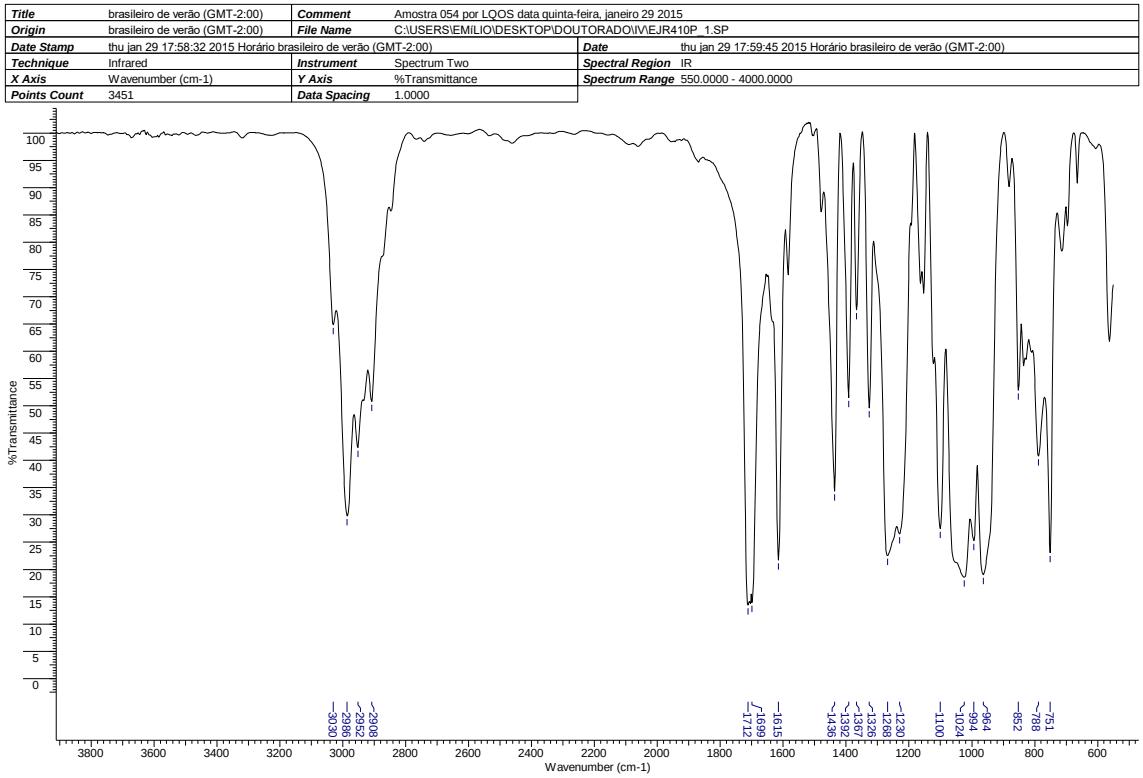


Figure S198: ^{13}C NMR (dept 135) spectrum of compound **6b** (125 MHz; $CDCl_3$).



B010 #54 RT: 0.81 AV: 1 NL: 4.68E7
T: FTMS + p ESI Full ms [150.00-1500.00]

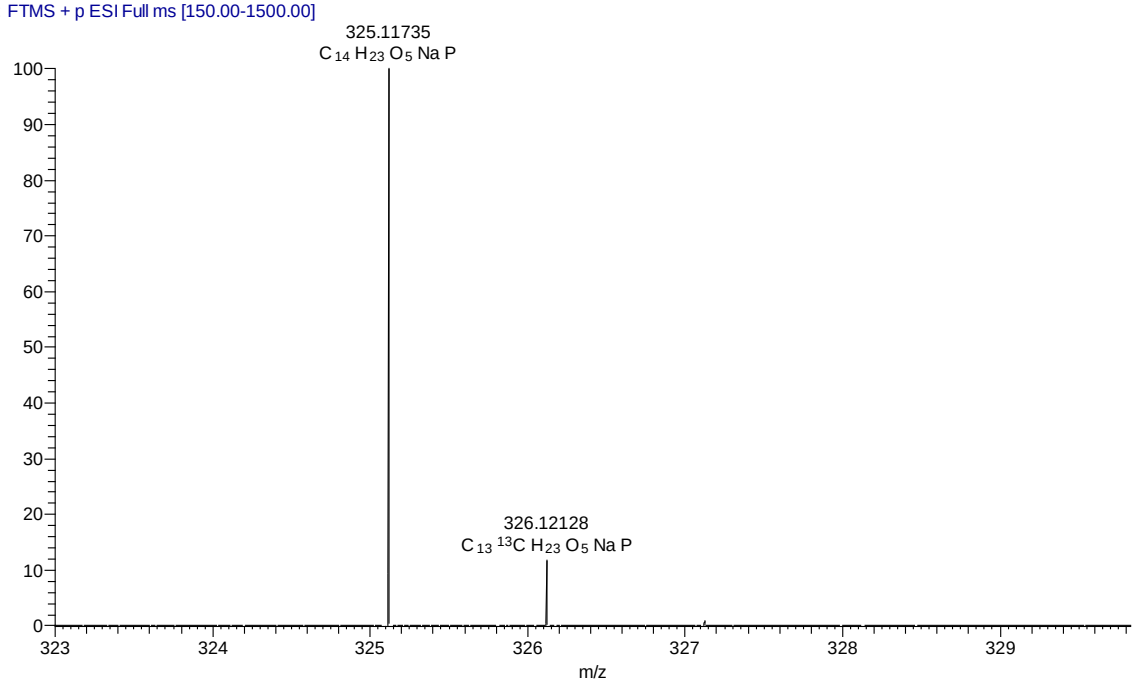


Figure S199: IR and HRMS (ESI FT-ICR-MS) spectra of compound **6b**.

Acquisition Time (sec)	1.6384	***Comment***	Emilio - EJR-395P - CDCl3 - Av 500MHz - out20ejrH1			***Date***	20 Oct 2014 14:02:10
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2014\out20ejrH1_001001r	***Frequency (MHz)***	499.87			***Nucleus***	1H
Number of Transients	16	***Original Points Count***	16384	***Points Count***	65536	***Pulse Sequence***	zg30
Solvent	CHLOROFORM-D	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	20.150		

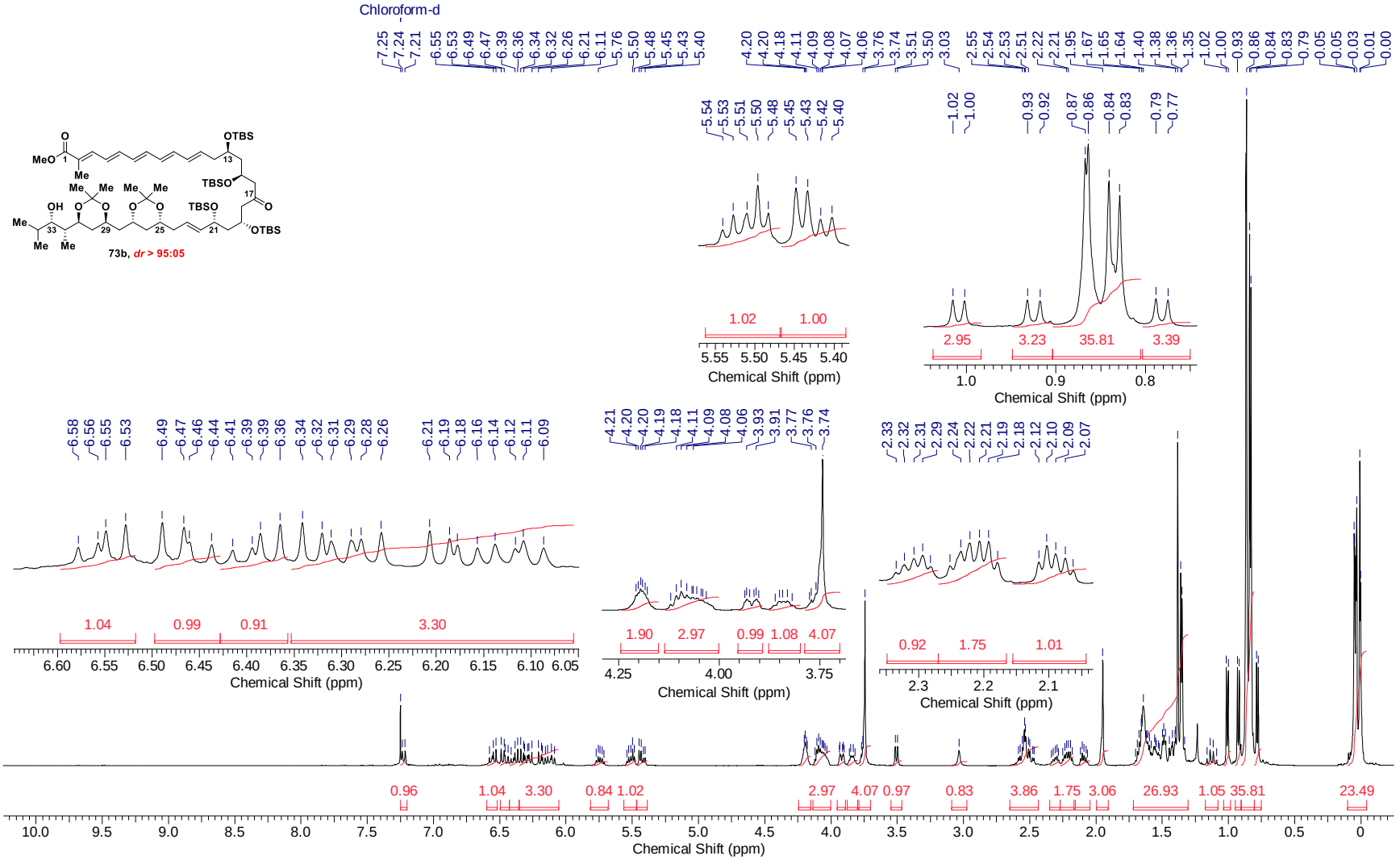


Figure S200: ^{1}H NMR spectrum of compound **73b** (500 MHz; $CDCl_3$).

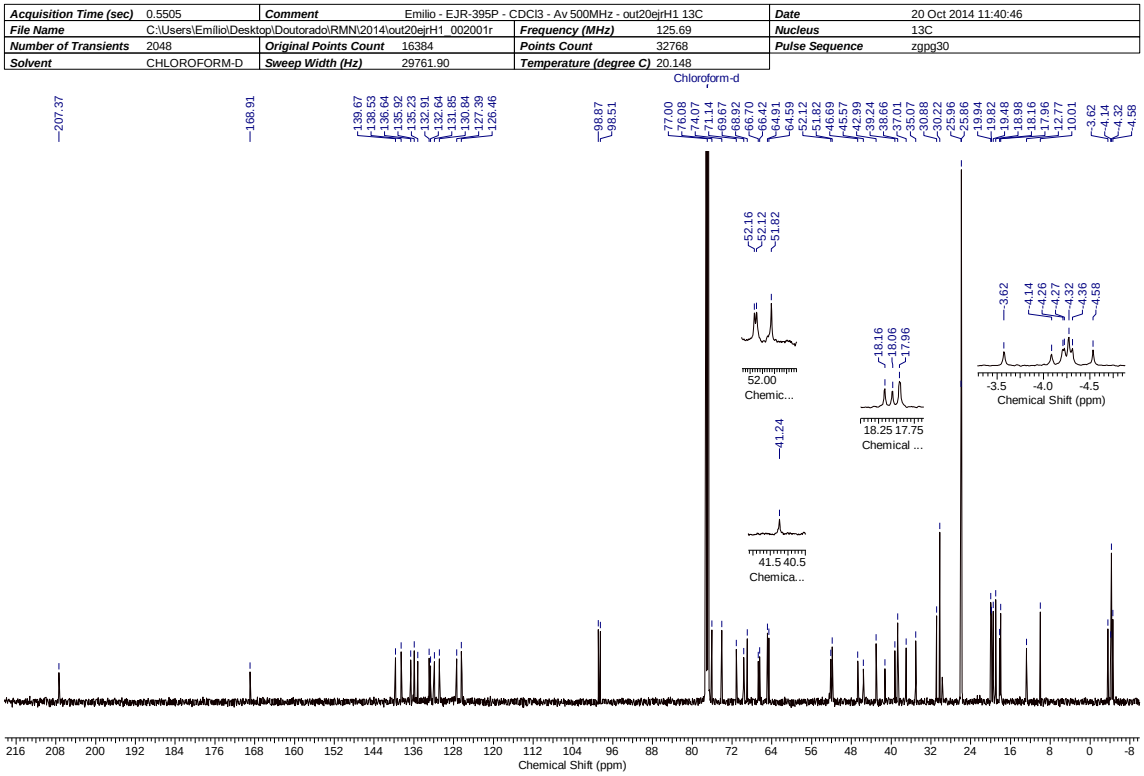


Figure S201: ^{13}C NMR spectrum of compound **73b** (125 MHz; $CDCl_3$).

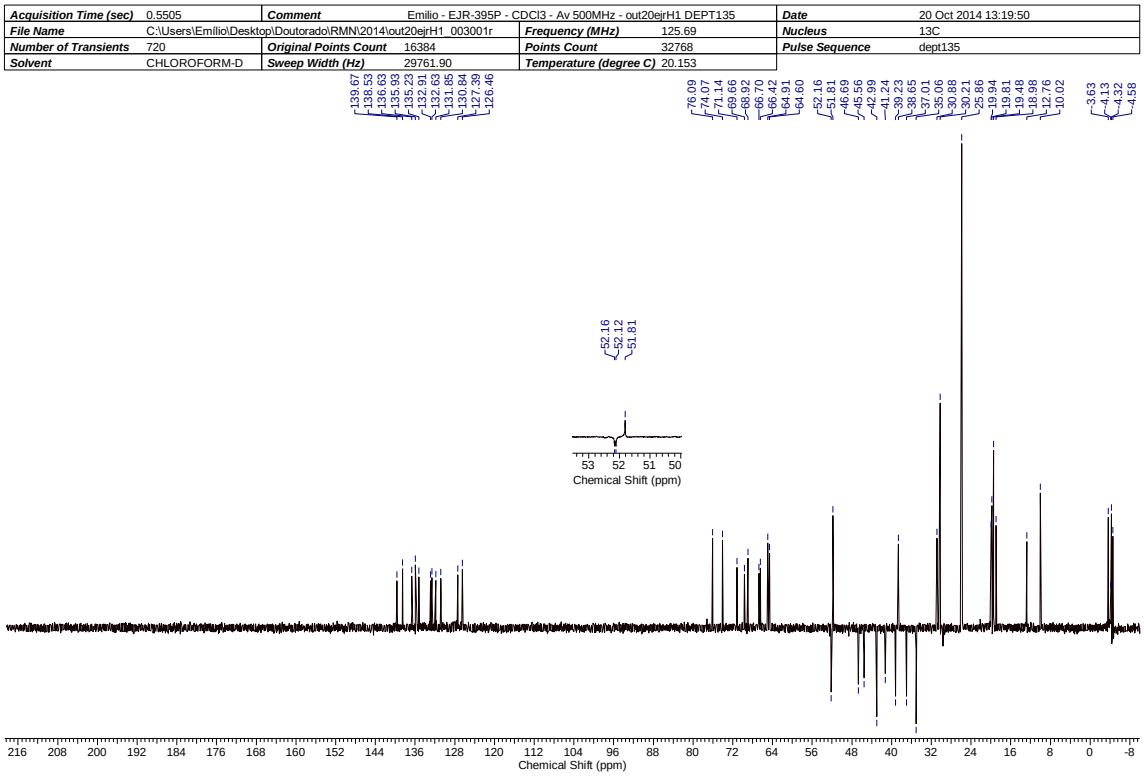
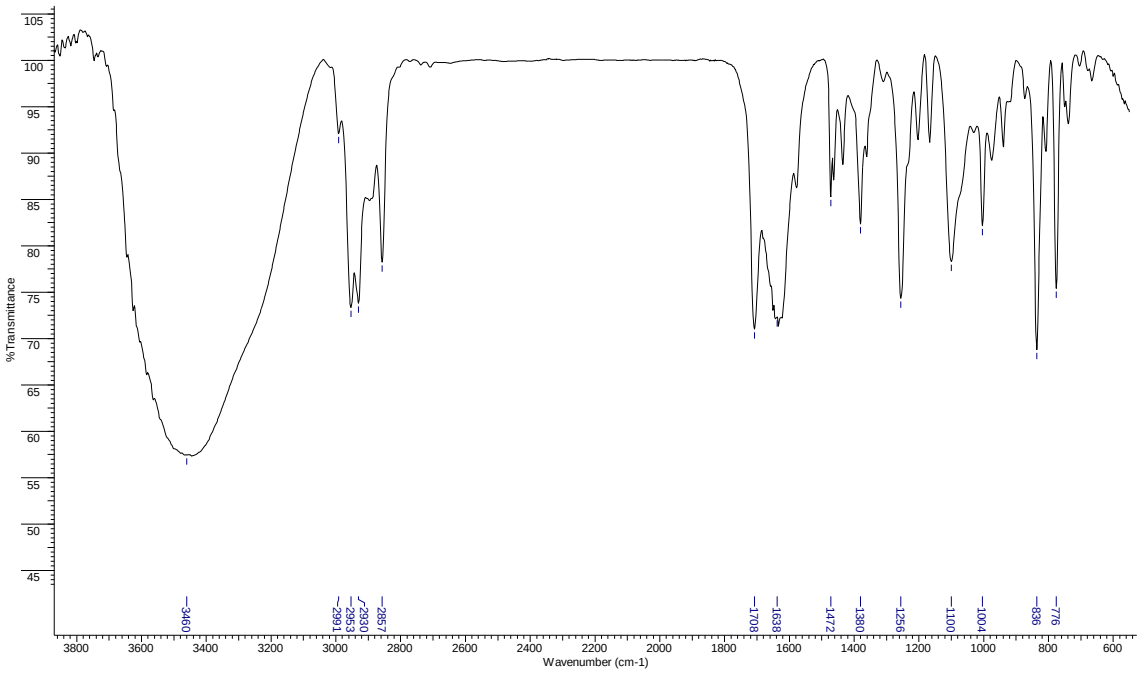


Figure S202: ^{13}C NMR (dept 135) spectrum of compound **73b** (125 MHz; $CDCl_3$).

Title	brasileiro de verão (GMT-2:00)	**Comment**	Amostra 047 por LQOS data quinta-feira, novembro 13 2014		
Origin	brasileiro de verão (GMT-2:00)	**File Name**	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IV\EJR395P_1.SP		
Date Stamp	thu nov 13 13:22:45 2014 Horário brasileiro de verão (GMT-2:00)			**Date**	thu nov 13 13:23:27 2014 Horário brasileiro de verão (GMT-2:00)
Technique	Infrared	**Instrument**	Spectrum Two	**Spectral Region**	IR
X Axis	Wavenumber (cm-1)	**Y Axis**	%Transmittance	**Spectrum Range**	550.0000 - 4000.0000
Points Count	3451	**Data Spacing**	1.0000		



B009 #11 RT: 0.17 AV: 1 NL: 5.68E5
T: FTMS + p ESI Full ms [150.00-1500.00]

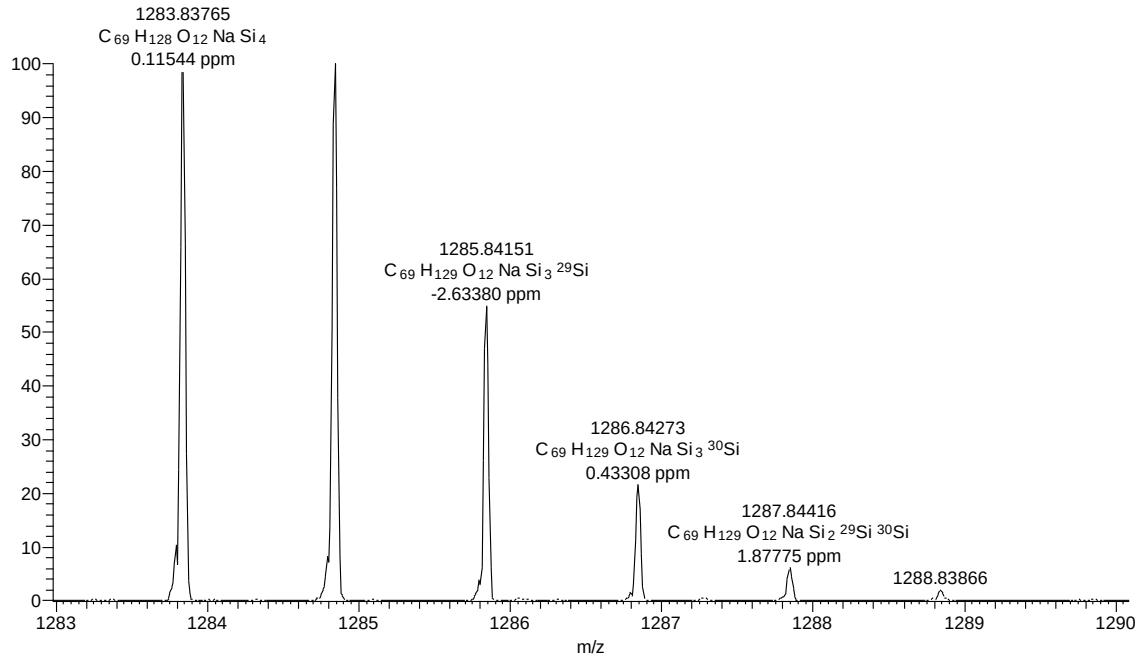


Figure S203: IR and HRMS (ESI FT-ICR-MS) spectra of compound **73b**.

Acquisition Time (sec)	1.6384	***Comment***	Emilio - EJR-400P - CDCl3 - Av 500MHz - nov03ejrH1			***Date***	03 Nov 2014 16:44:56
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2014\nov03ejrH1_001001r			***Frequency (MHz)***	499.87	***Nucleus***	1H
Number of Transients	16	***Original Points Count***	16384	***Points Count***	65536	***Pulse Sequence***	zg30
Solvent	CHLOROFORM-D	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	20.154		

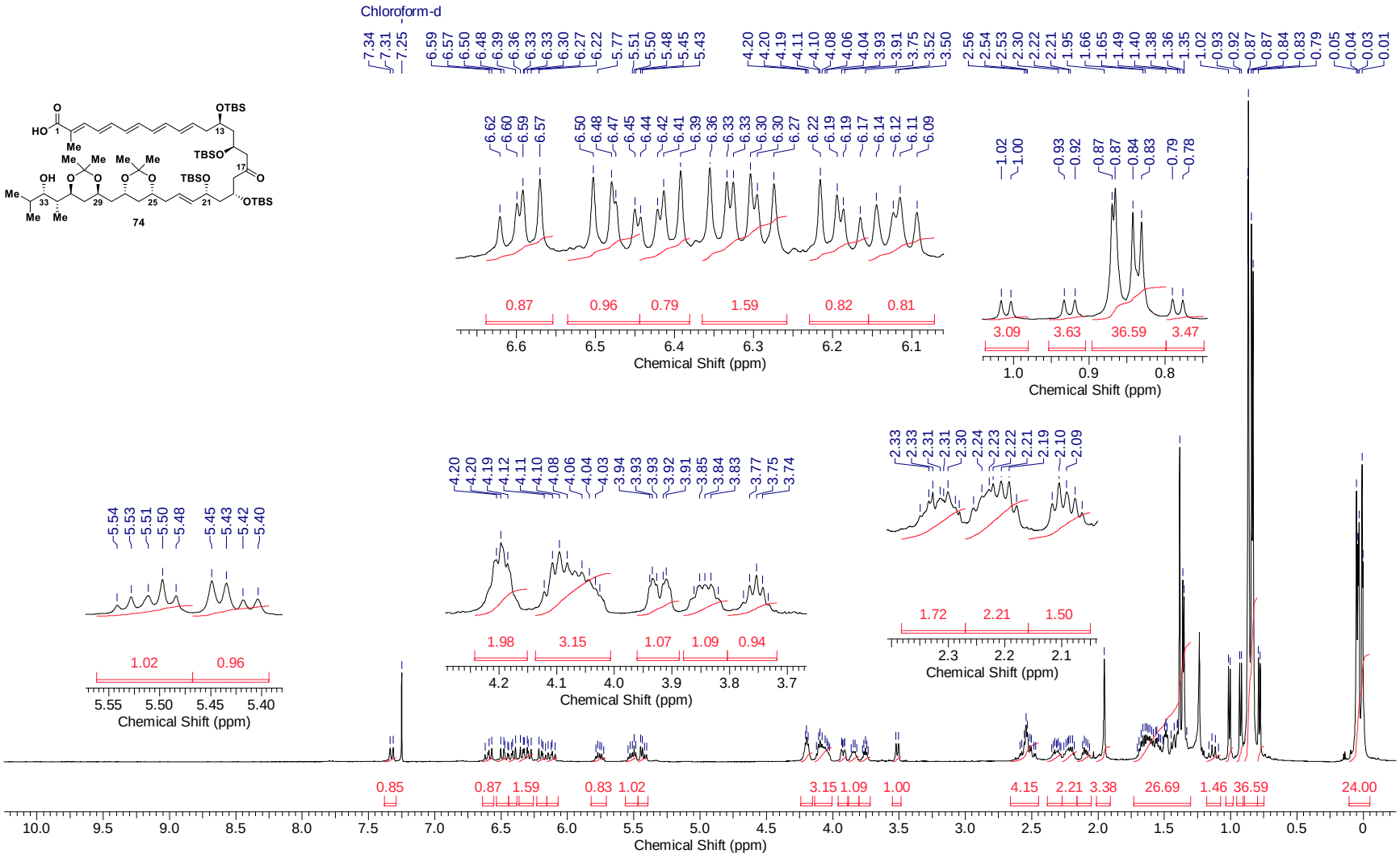


Figure S204: ^{1}H NMR spectrum of compound **74** (500 MHz; $CDCl_3$).

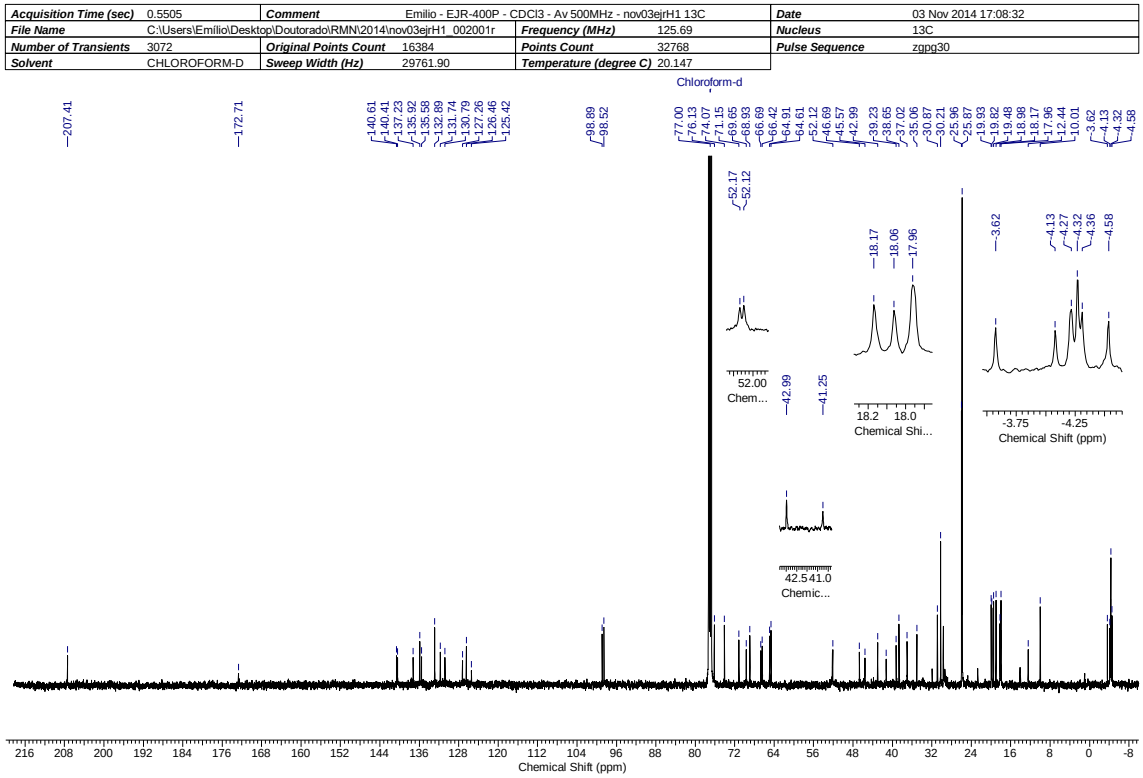


Figure S205: ^{13}C NMR spectrum of compound **74** (125 MHz; $CDCl_3$).

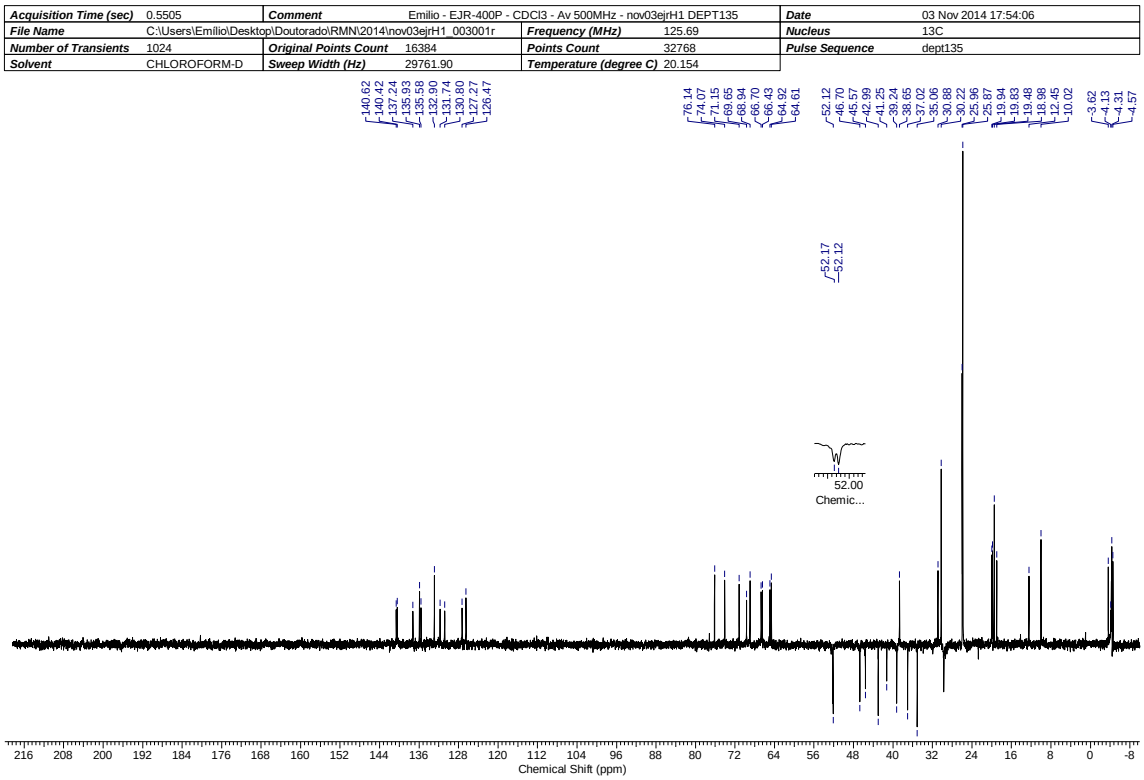


Figure S206: ^{13}C NMR (dept 135) spectrum of compound **74** (125 MHz; $CDCl_3$).

Title	cial do Brasil (GMT-3:00)	***Comment***	Amostra 006 por LQOS data segunda-feira, abril 06 2015			***Origin***	cial do Brasil (GMT-3:00)
File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IV\EJR419P_1.SP			***Date Stamp***	mon apr 06 14:59:21 2015 Hora oficial do Brasil (GMT-3:00)		
Date	mon apr 06 14:59:50 2015 Hora oficial do Brasil (GMT-3:00)			***Technique***	Infrared	***Instrument***	Spectrum Two
Spectral Region	IR	***X Axis***	Wavenumber (cm-1)	***Y Axis***	%Transmittance	***Spectrum Range***	550.0000 - 4000.0000
Points Count	3451	***Data Spacing***	1.0000				

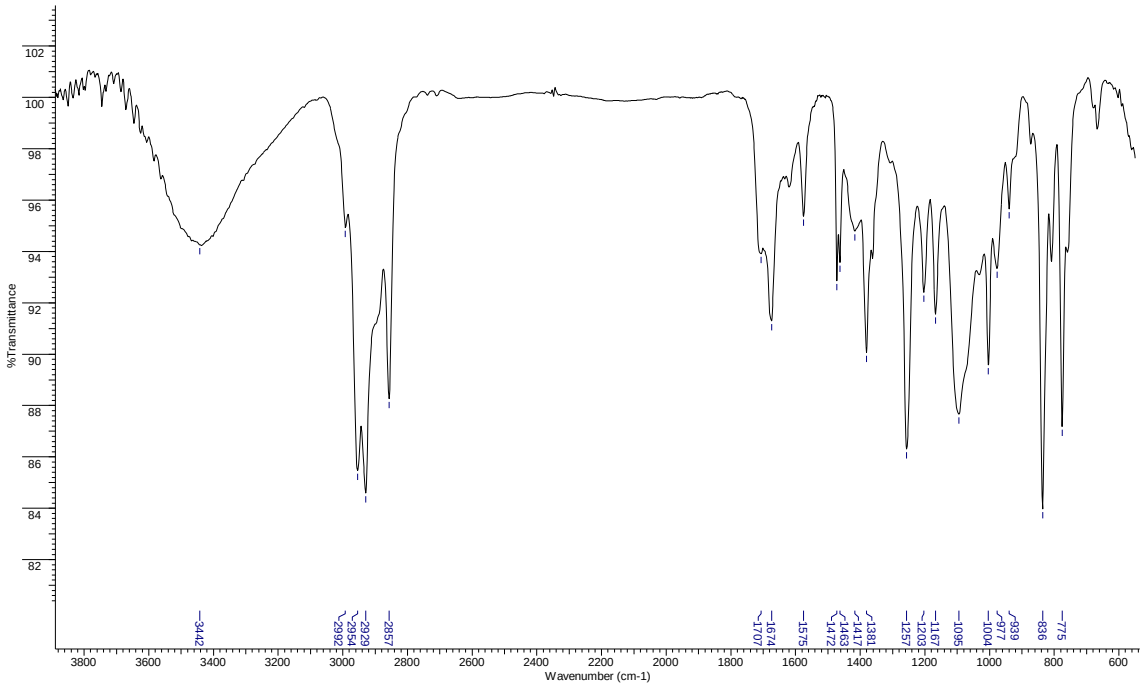


Figure S207: IR spectrum of compound **74**.

Acquisition Time (sec)	4.0894	***Date***	18 May 2015 17:19:34				
File Name	C:\Users\Emílio\Desktop\Doutorado\Tese\pendencias\400\mai18ejrH1_001001r					***Frequency (MHz)***	400.18
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	32768	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	ACETONITRILE-D3			***Sweep Width (Hz)***	8012.82
Temperature (degree C)	25.160						

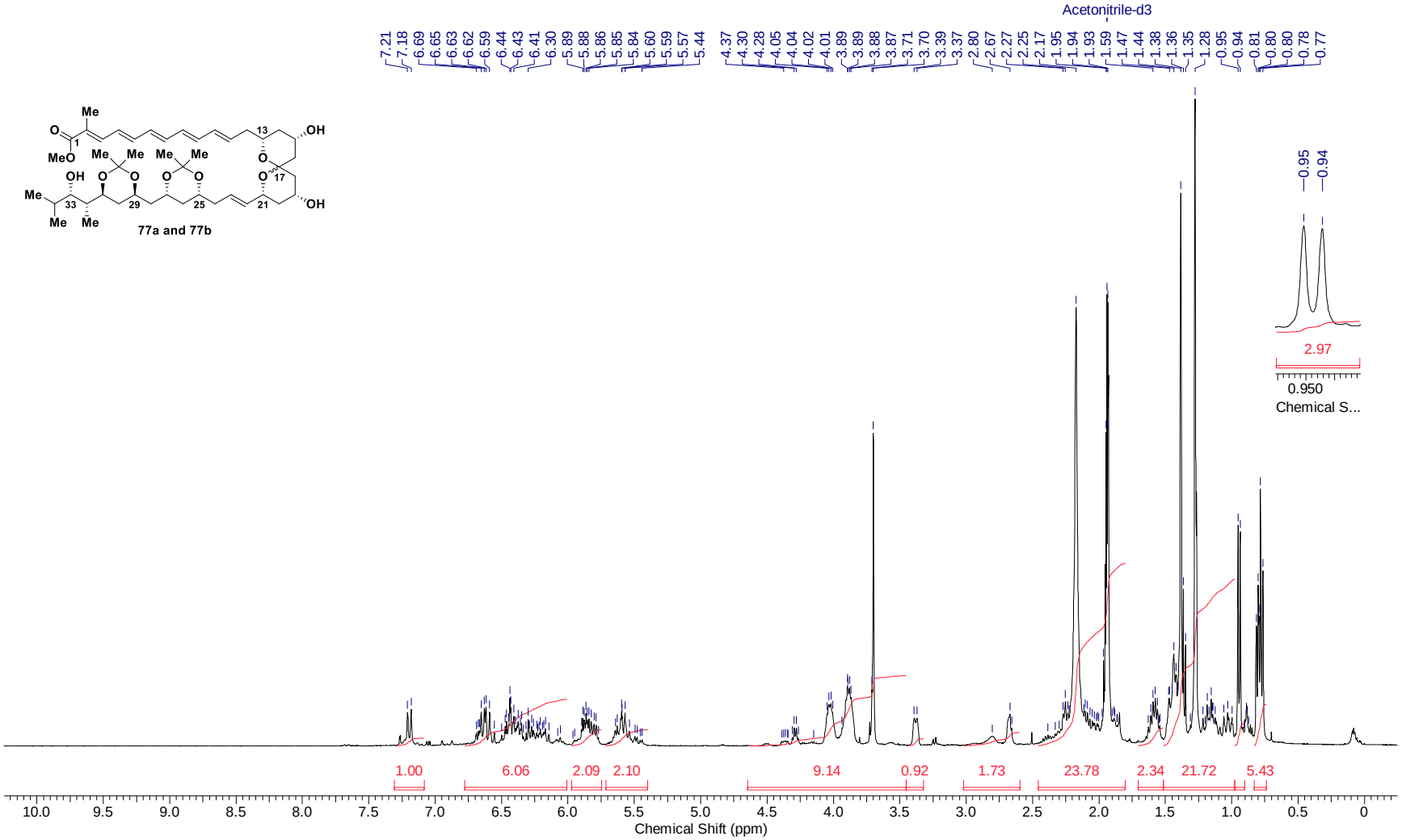


Figure S208: ^{1}H NMR spectrum of compound **77a** and **77b** (400 MHz; MeCN-d_3).

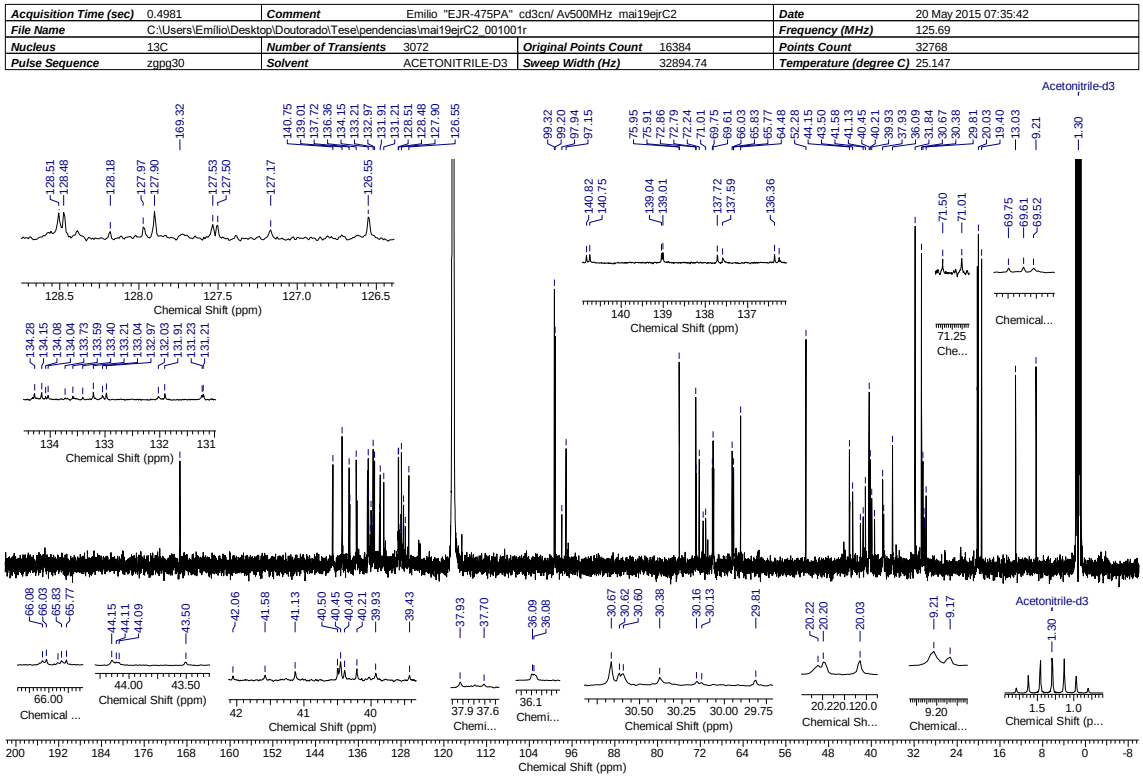


Figure S209: ^{13}C NMR spectrum of compound **77a** and **77b** (125 MHz; MeCN-d_3).

Acquisition Time (sec)	1.5903	***Comment***	Emilio - EJR-475PB - MeCN - Av 500MHz - mai18ejrH1			***Date***	18 May 2015 09:15:26
File Name	C:\Users\Emílio\Desktop\Doutorado\Tese\pendencias\mai18ejrH1_001001r					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	ACETONITRILE-D3	***Sweep Width (Hz)***	10302.20	***Temperature (degree C)***	25.154

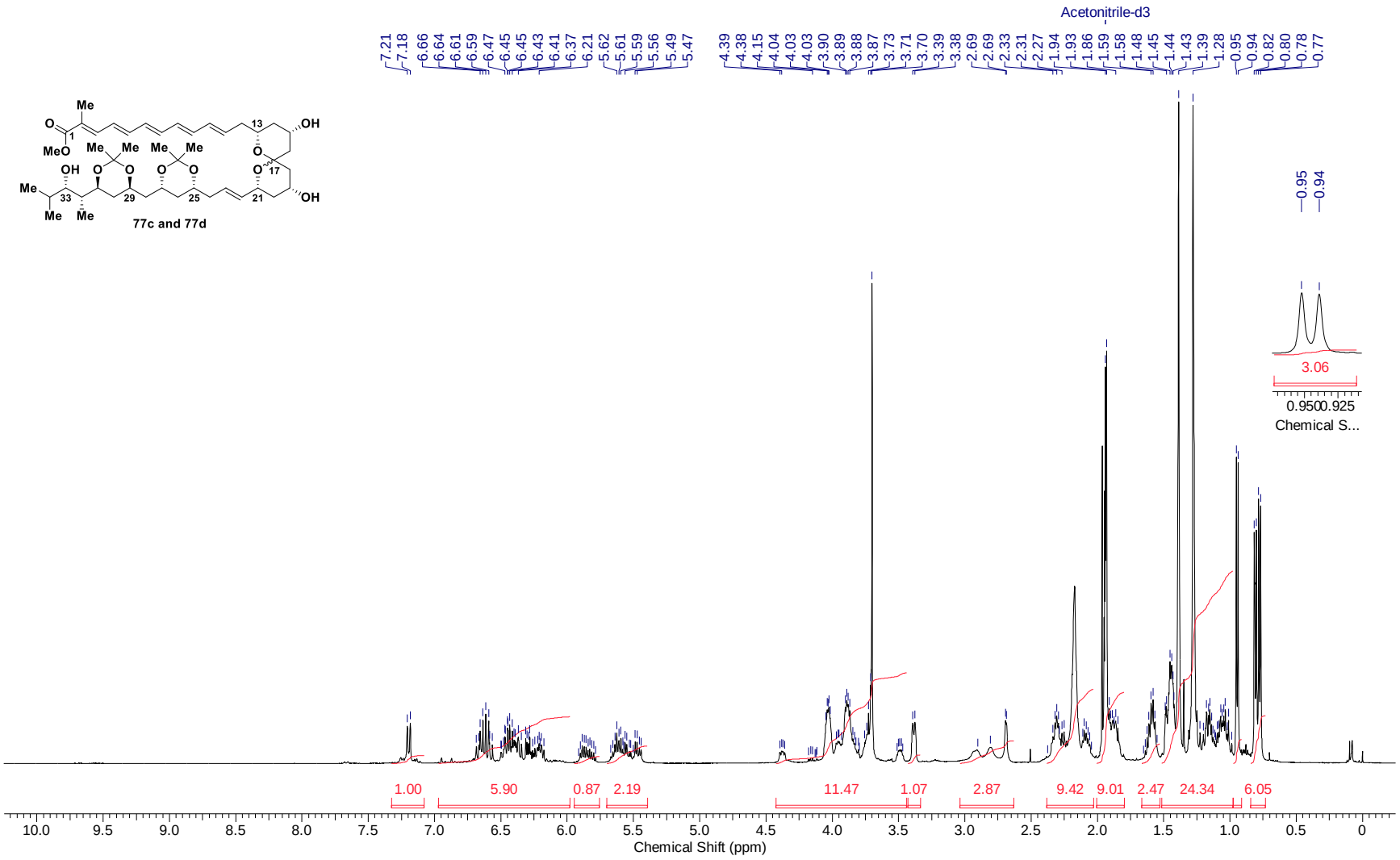


Figure S210: ^{1}H NMR spectrum of compound **77c** and **77d** (500 MHz; MeCN-d_3).

Acquisition Time (sec)	0.4981	***Comment***	Emilio - EJR-475PB - MeCN - Av 500MHz - mai18ejrH1 13C			***Date***	18 May 2015 10:54:38
File Name	C:\Users\Emílio\Desktop\Doutorado\Tese\pendencias\mai18ejrH1_002001r					***Frequency (MHz)***	125.69
Nucleus	13C	***Number of Transients***	1058	***Original Points Count***	16384	***Points Count***	32768
Pulse Sequence	zgpg30	***Solvent***	ACETONITRILE-D3	***Sweep Width (Hz)***	32894.74	***Temperature (degree C)***	25.155

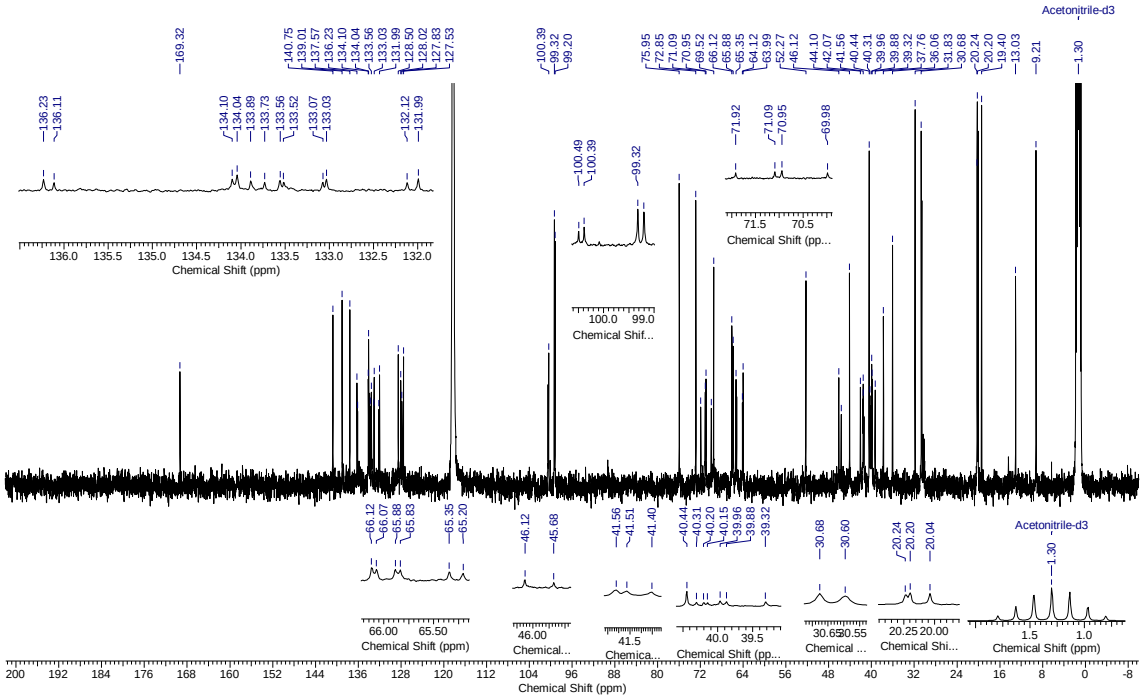


Figure S211: ^{13}C NMR spectrum of compound **77c** and **77d** (125 MHz; MeCN-d_3).

Acquisition Time (sec)	1.3282	***Comment***	Emilio "EJR-478" cd3cn/ Av600MHz mai27ejrH1			***Date***	28 May 2015 07:34:56
File Name	C:\Users\Emílio\Desktop\Doutorado\Tese\pendencias\mai27ejrH1_001001r					***Frequency (MHz)***	600.17
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	ACETONITRILE-D3			***Sweep Width (Hz)***	12335.53
Temperature (degree C)	25.145						

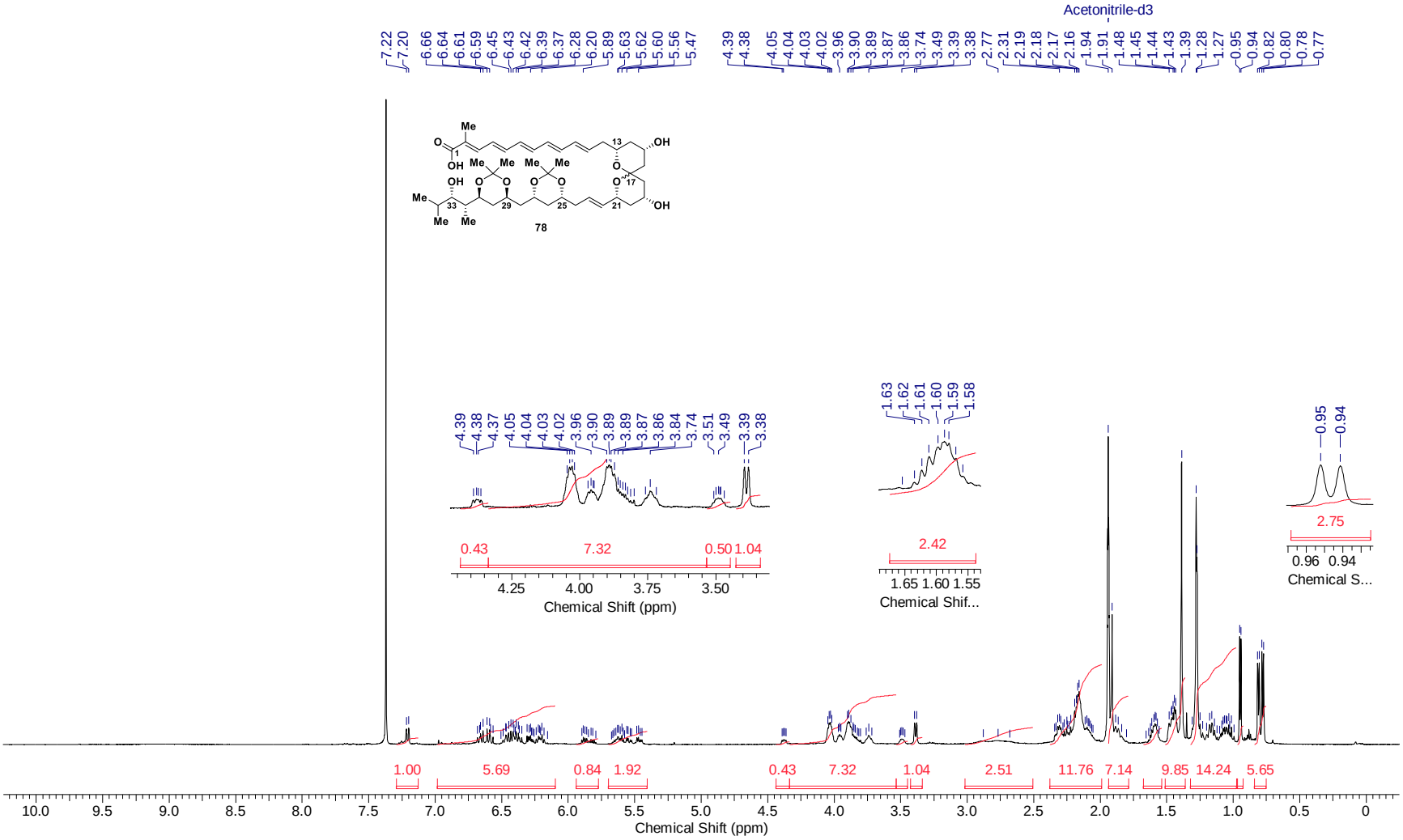


Figure S212: ^{1}H NMR spectrum of compound **78** (600 MHz; MeCN-d_3).

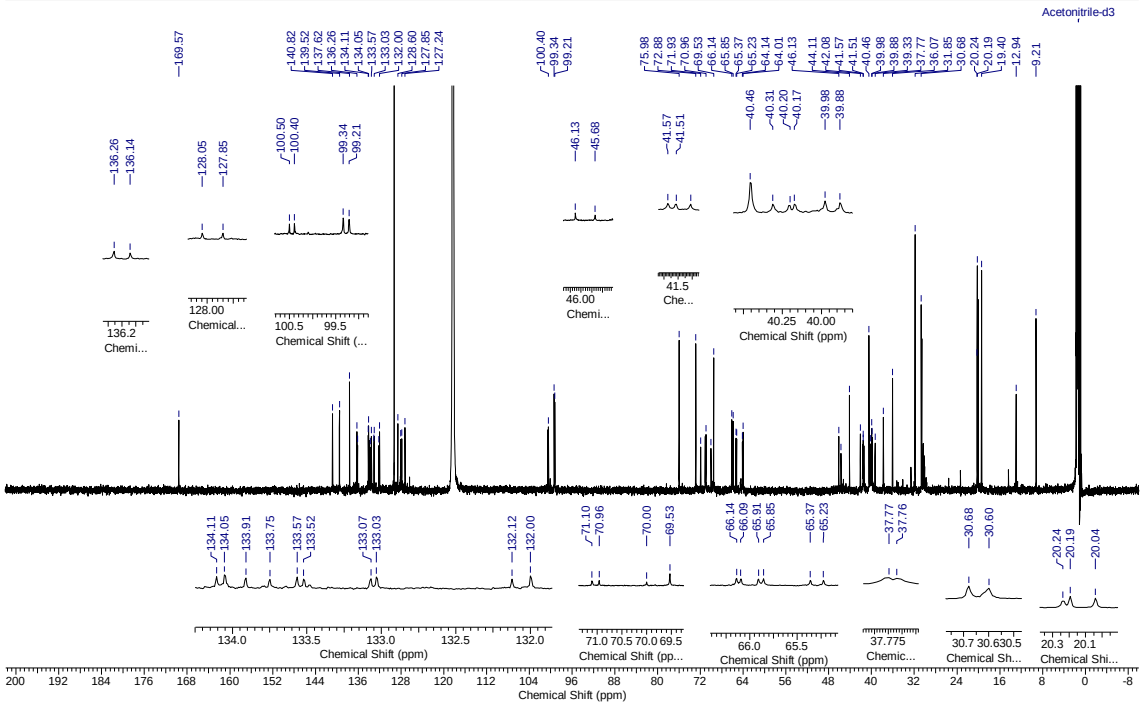


Figure S213: ^{13}C NMR spectrum of compound **78** (150 MHz; MeCN-d_3).

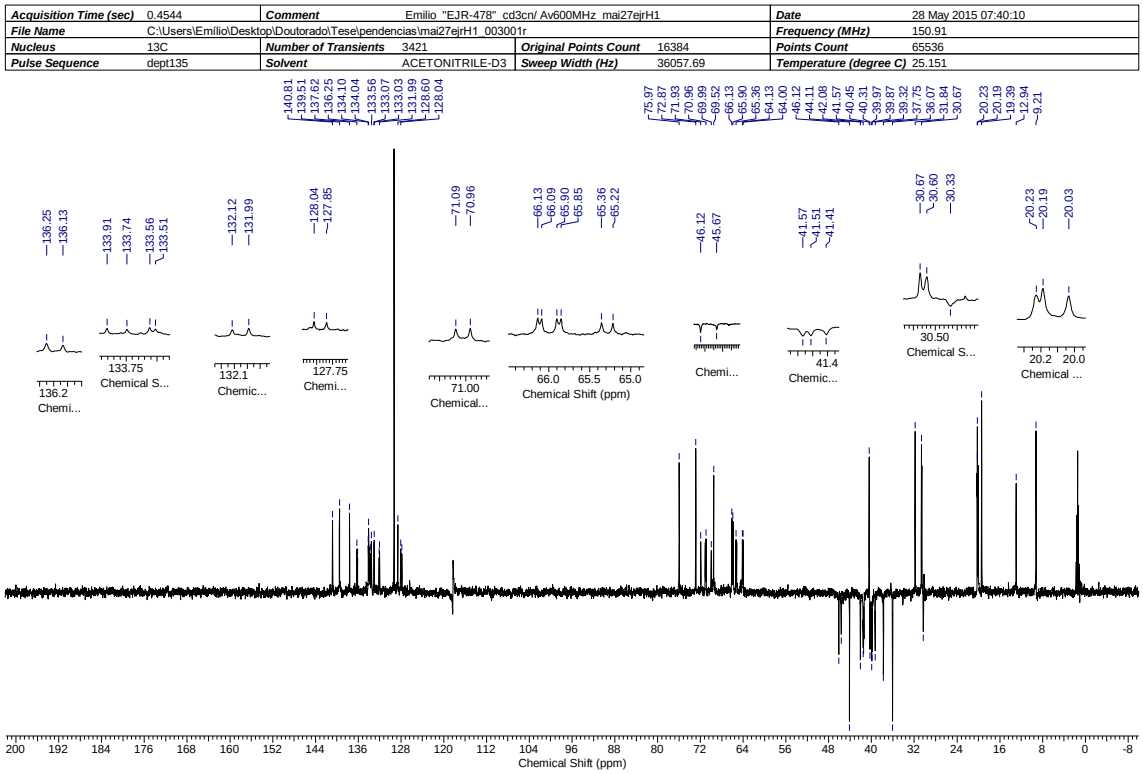


Figure S214: ^{13}C NMR (dept 135) spectrum of compound **78** (150 MHz; MeCN-d_3).

Copies of ^{1}H and ^{13}C NMR, IR, and HRMS spectra for fragment C8−C35:

Acquisition Time (sec)	1.6384	***Comment***	Emilio "EJR-452P" cdcl3/ Av500MHz mar30ejrH2			***Date***	31 Mar 2015 07:21:04
File Name	C:\Users\Emílio\Desktop\Doutorado\Tese\pendencias\mar30ejrH2_001001r					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	25.147

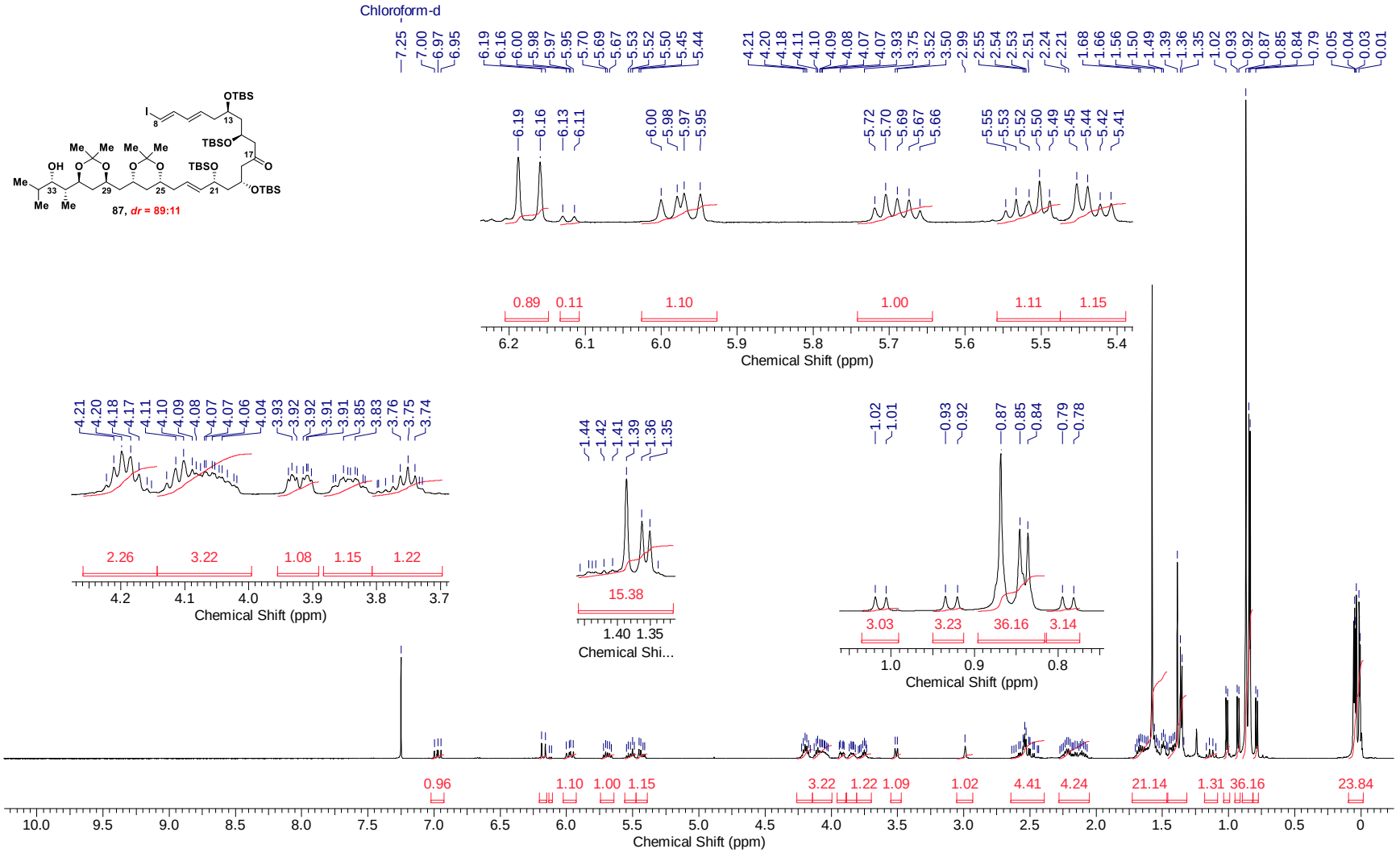


Figure S215: ^{1}H NMR spectrum of compound **87** (500 MHz; $CDCl_3$).

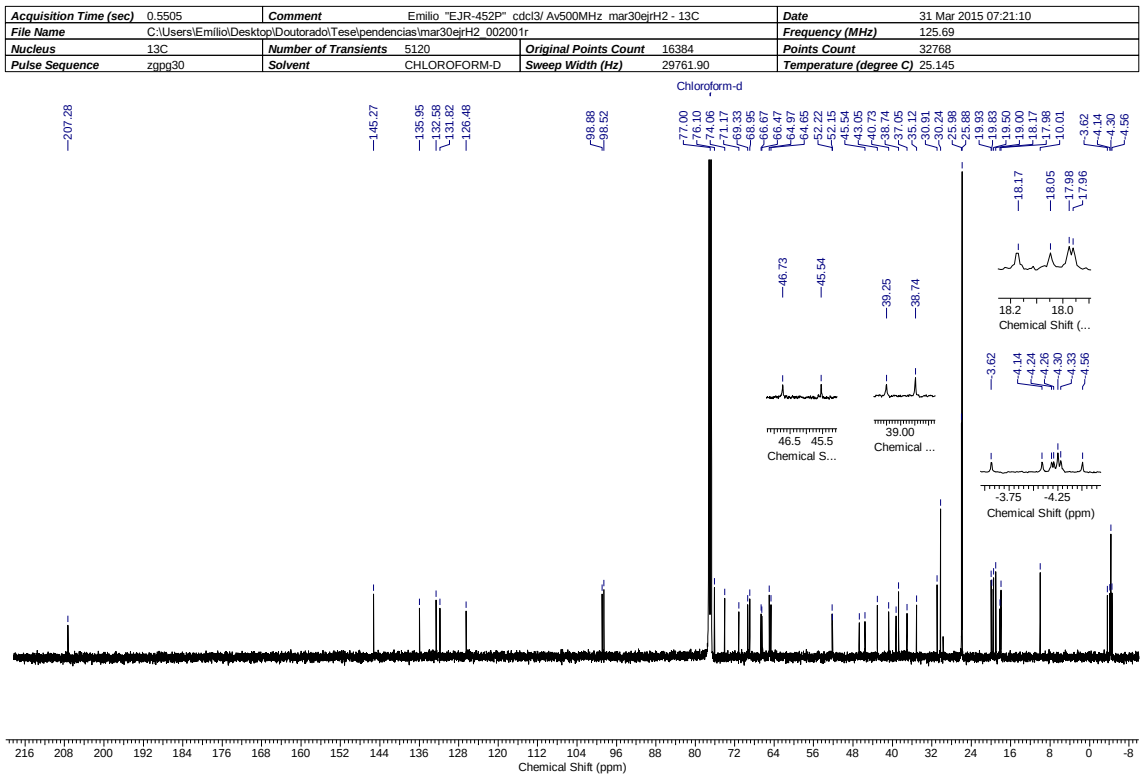


Figure S216: ^{13}C NMR spectrum of compound **87** (125 MHz; $CDCl_3$).

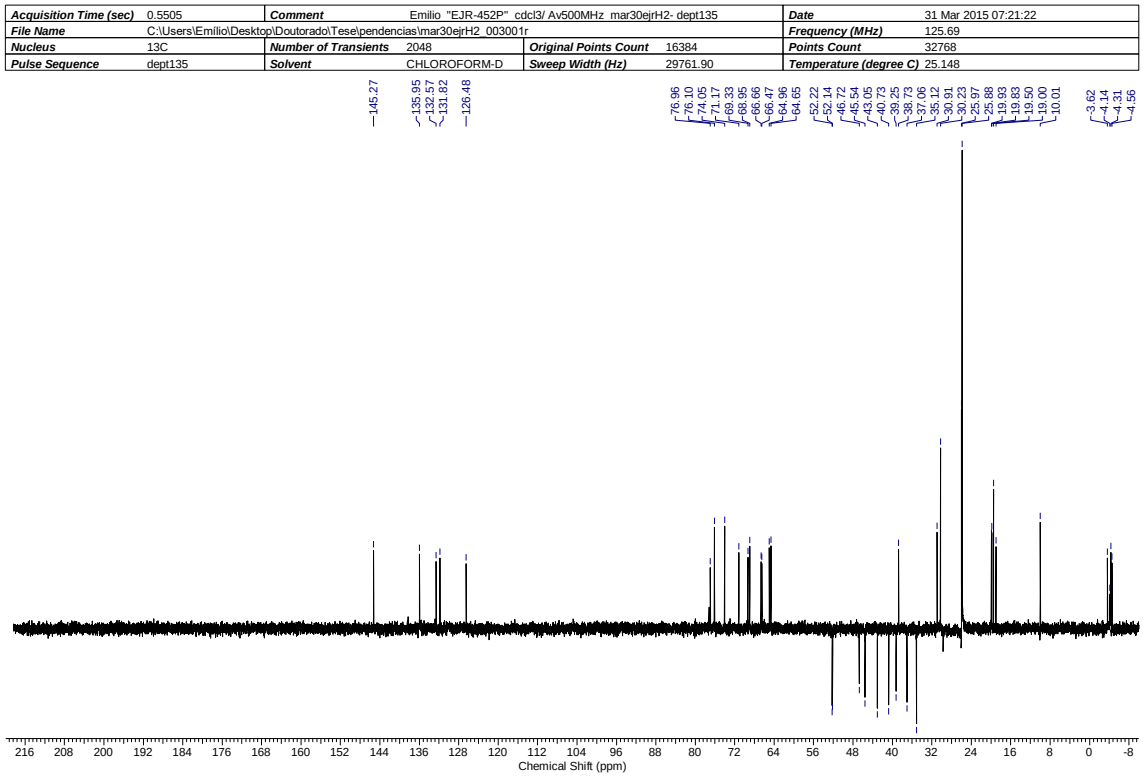


Figure S217: ^{13}C NMR (dept 135) spectrum of compound **87** (125 MHz; $CDCl_3$).

Title	cial do Brasil (GMT-3:00)	***Comment***	Amostra 003 por LQOS data quarta-feira, abril 01 2015			***Origin***	cial do Brasil (GMT-3:00)
File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IV\EJR452P_1.SP			***Date Stamp***	wed apr 01 16:14:21 2015 Hora oficial do Brasil (GMT-3:00)		
Date	wed apr 01 16:14:43 2015 Hora oficial do Brasil (GMT-3:00)			***Technique***	Infrared	***Instrument***	Spectrum Two
Spectral Region	IR	***X Axis***	Wavenumber (cm-1)	***Y Axis***	%Transmittance	***Spectrum Range***	550.0000 - 4000.0000
Points Count	3451	***Data Spacing***	1.0000				

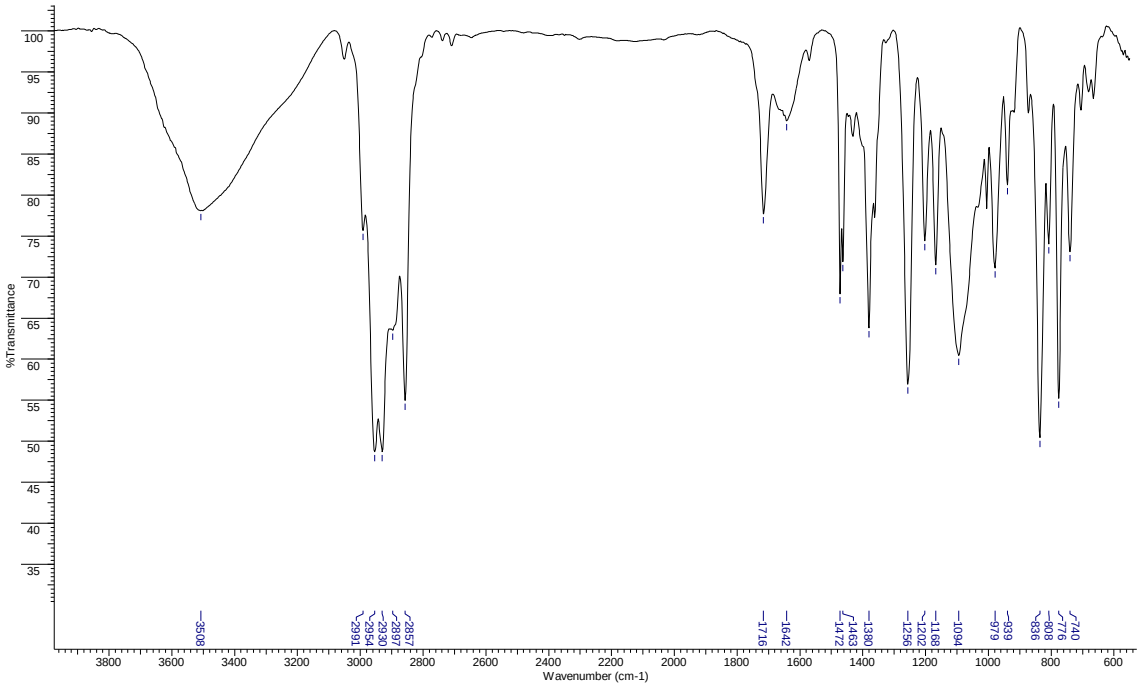


Figure S218: IR spectrum of compound **87**.

Acquisition Time (sec)	1.6384	***Comment***	Emilio "EJR-453P" cdcl3/ Av500MHz mar30ejrH3			***Date***	31 Mar 2015 09:12:46
File Name	C:\Users\Emílio\Desktop\Doutorado\Tese\pendencias\mar30ejrH3_001001r					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	25.147

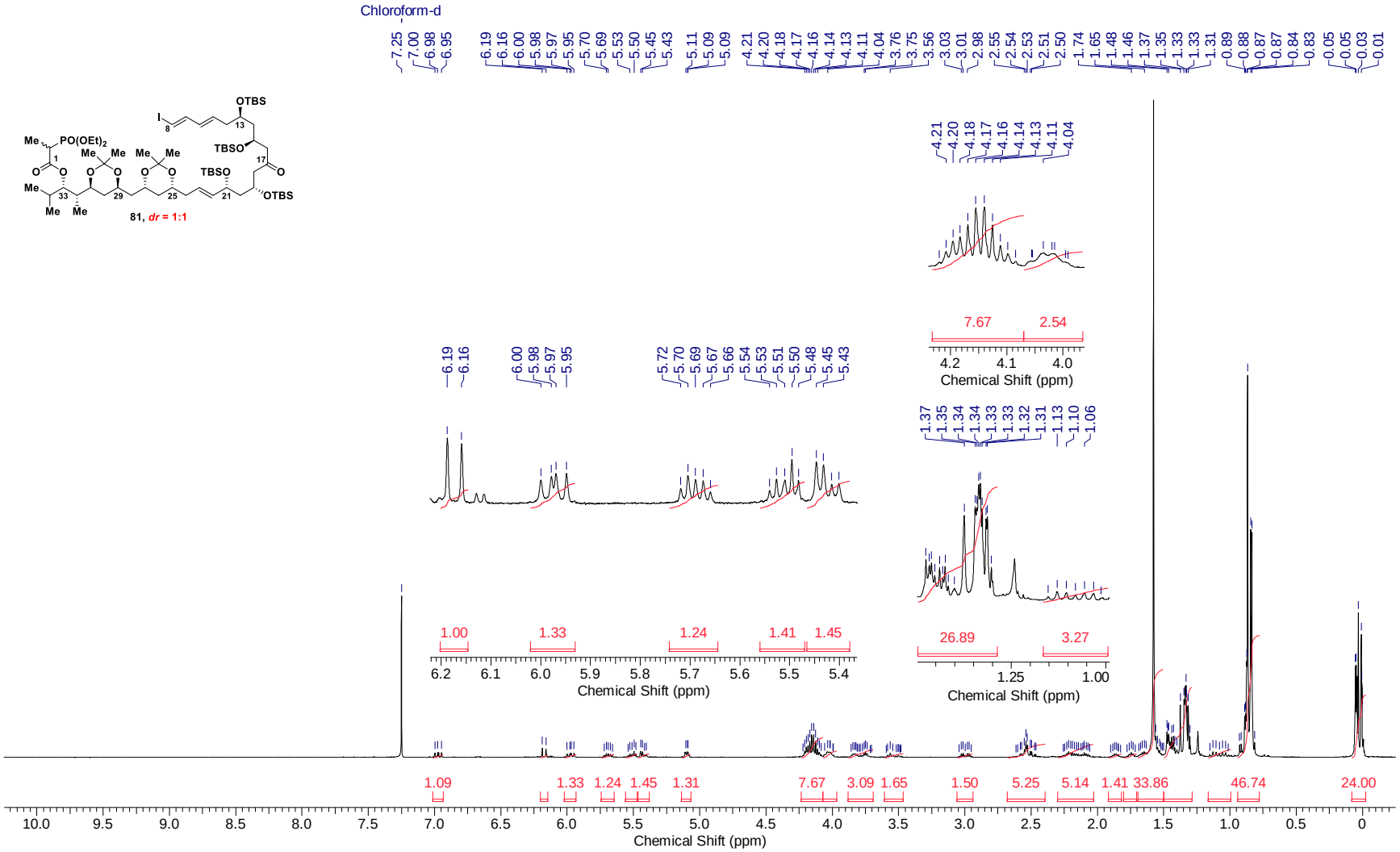


Figure S219: ^{1}H NMR spectrum of compound **81** (500 MHz; $CDCl_3$).

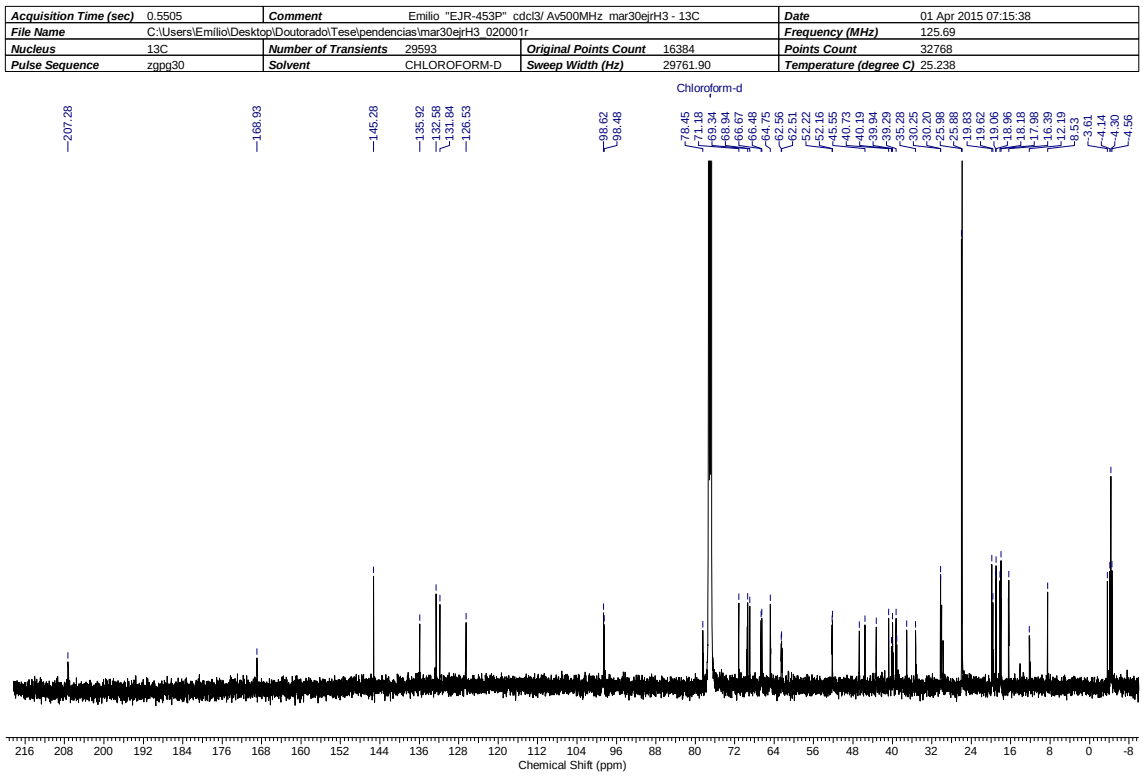


Figure S220: ^{13}C NMR spectrum of compound **81** (125 MHz; $CDCl_3$).

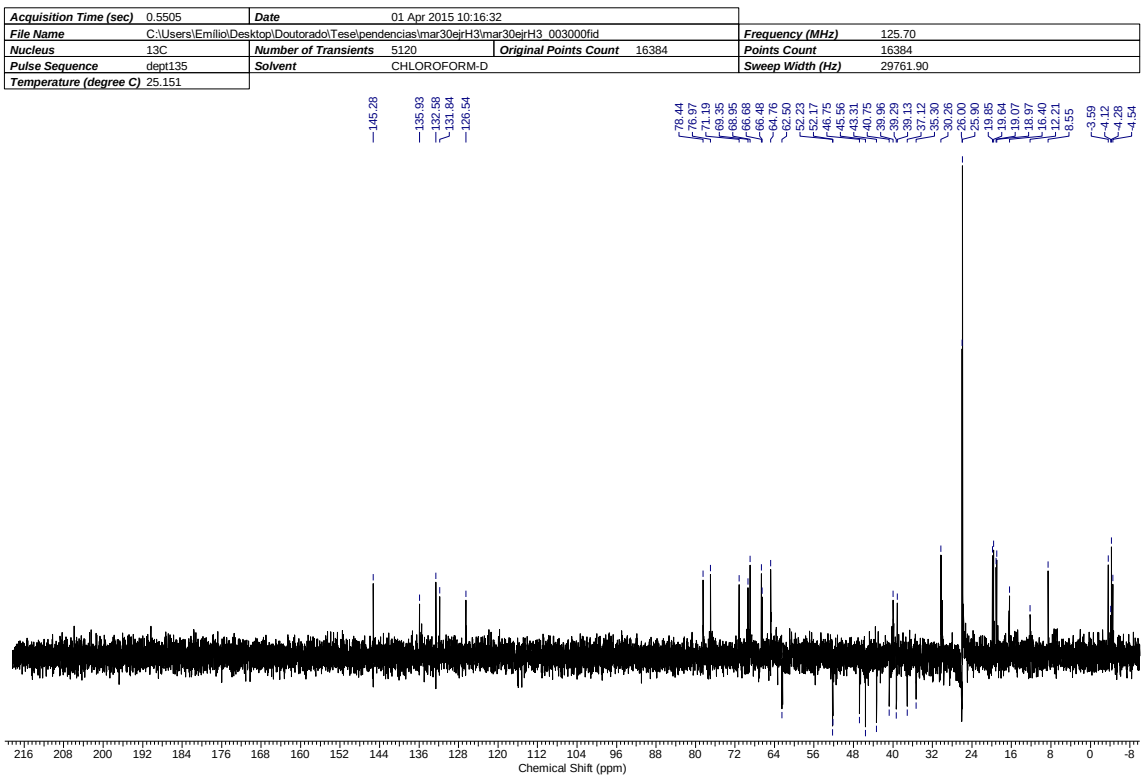


Figure S221: ^{13}C NMR (dept 135) spectrum of compound **81** (125 MHz; $CDCl_3$).

Title	cial do Brasil (GMT-3:00)	***Comment***	Amostra 004 por LQOS data quarta-feira, abril 01 2015			***Origin***	cial do Brasil (GMT-3:00)
File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IV\EJR453P_1.SP			***Date Stamp***	wed apr 01 16:19:33 2015 Hora oficial do Brasil (GMT-3:00)		
Date	wed apr 01 16:20:14 2015 Hora oficial do Brasil (GMT-3:00)			***Technique***	Infrared	***Instrument***	Spectrum Two
Spectral Region	IR	***X Axis***	Wavenumber (cm-1)	***Y Axis***	%Transmittance	***Spectrum Range***	550.0000 - 4000.0000
Points Count	3451	***Data Spacing***	1.0000				

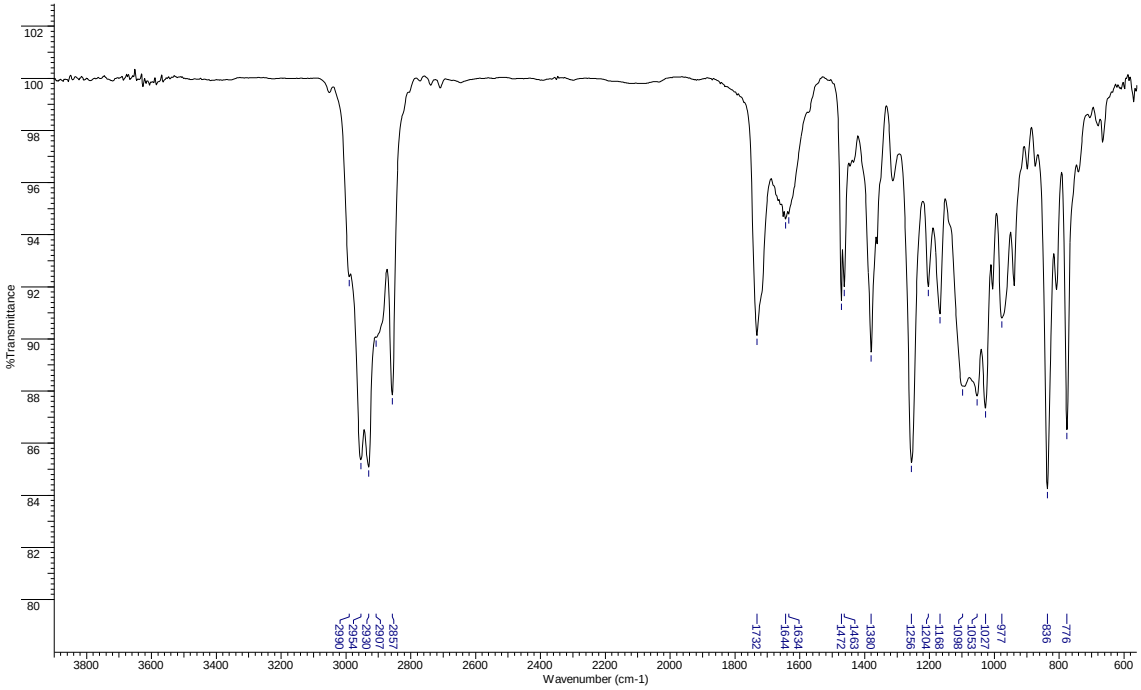


Figure S222: IR spectrum of compound **81**.

Copies of ^{1}H and ^{13}C NMR, IR, and HRMS spectra for fragment C3−C7:

Acquisition Time (sec)	1.6384	***Comment***	Emilio "EJR-456P" cdcl3/ Av500MHz mar30ejrH1			***Date***	30 Mar 2015 16:07:02
File Name	C:\Users\Emílio\Desktop\Doutorado\Tese\pendencias\mar30ejrH1_001001r					***Frequency (MHz)***	499.87
Nucleus	1H	***Number of Transients***	16	***Original Points Count***	16384	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	CHLOROFORM-D	***Sweep Width (Hz)***	10000.00	***Temperature (degree C)***	25.151

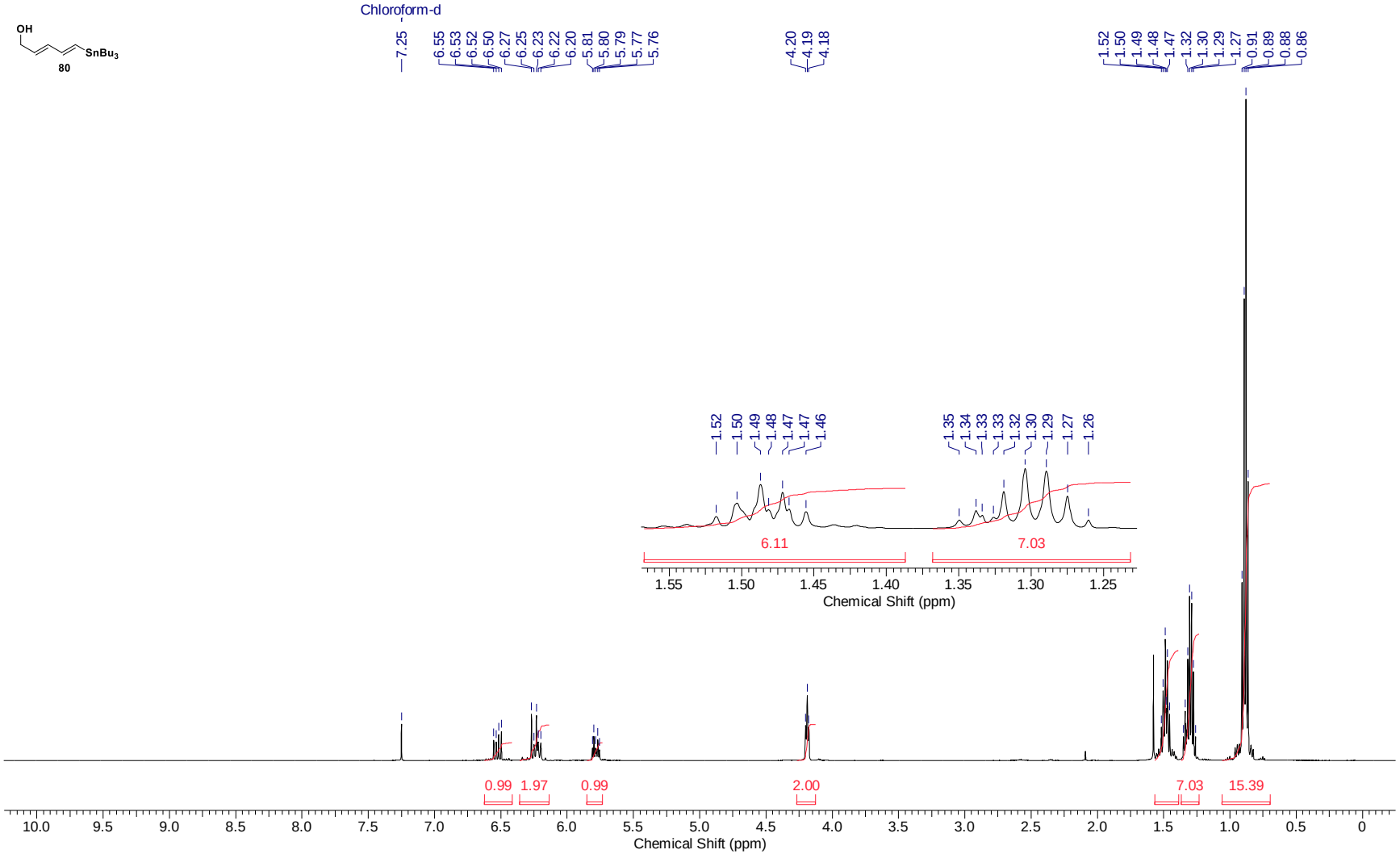


Figure S223: ^{1}H NMR spectrum of compound **80** (500 MHz; $CDCl_3$).

Acquisition Time (sec)	0.5505	***Comment***	Emilio "EJR-456P" cdcl3/ Av500MHz mar30ejrH1 - 13C			***Date***	30 Mar 2015 17:30:08
File Name	C:\Users\Emílio\Desktop\Doutorado\Tese\pendencias\mar30ejrH1_002001r					***Frequency (MHz)***	125.69
Nucleus	13C	***Number of Transients***	1280	***Original Points Count***	16384	***Points Count***	32768
Pulse Sequence	zgpg30	***Solvent***	CHLOROFORM-D	***Sweep Width (Hz)***	29761.90	***Temperature (degree C)***	25.151

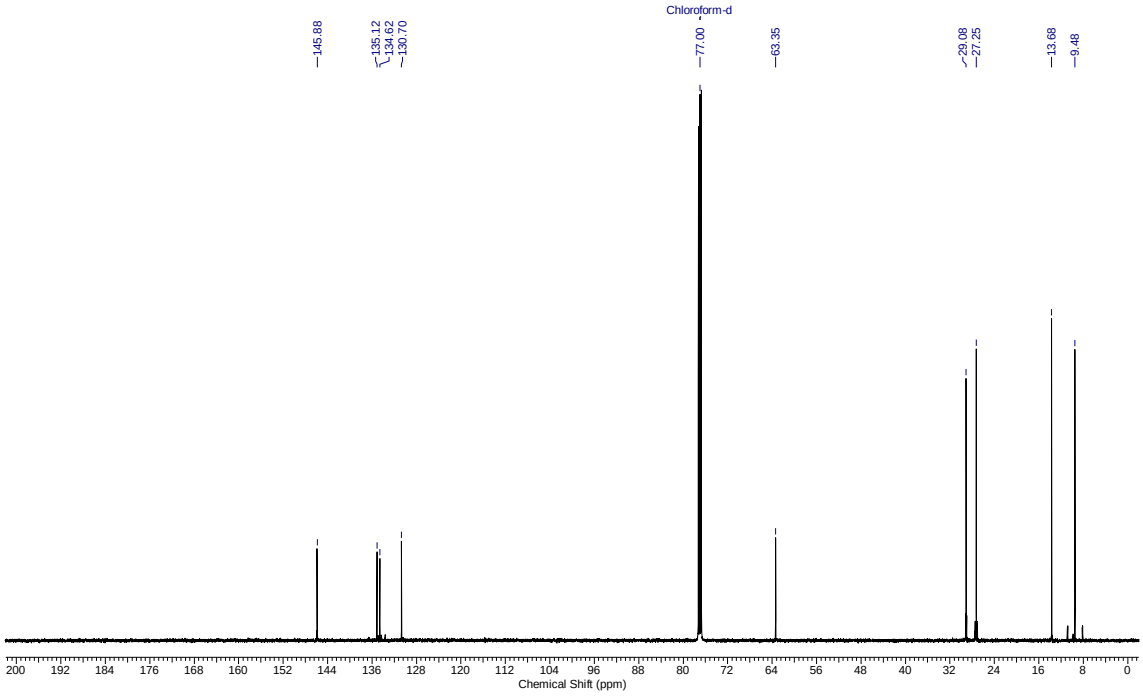


Figure S224: ^{13}C NMR spectrum of compound **80** (125 MHz; $CDCl_3$).

Acquisition Time (sec)	0.5505	***Comment***	Emilio "EJR-456P" cdcl3/ Av500MHz mar30ejrH1 - dept135			***Date***	30 Mar 2015 17:30:32
File Name	C:\Users\Emílio\Desktop\Doutorado\Tese\pendencias\mar30ejrH1_003001r					***Frequency (MHz)***	125.69
Nucleus	13C	***Number of Transients***	512	***Original Points Count***	16384	***Points Count***	32768
Pulse Sequence	dept135	***Solvent***	CHLOROFORM-D	***Sweep Width (Hz)***	29761.90	***Temperature (degree C)***	25.151

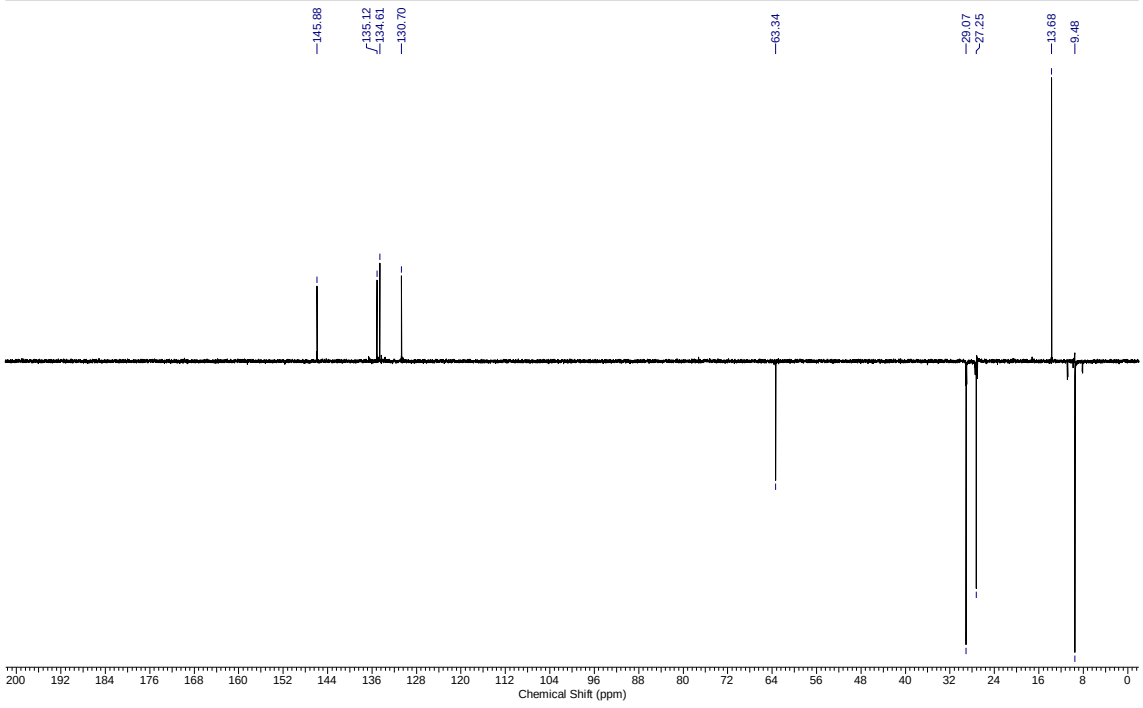


Figure S225: ^{13}C NMR (dept 135) spectrum of compound **80** (125 MHz; $CDCl_3$).

Title	cial do Brasil (GMT-3:00)	***Comment***	Amostra 005 por LQOS data quarta-feira, abril 01 2015			***Origin***	cial do Brasil (GMT-3:00)
File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IV\EJR456P_1.SP			***Date Stamp***	wed apr 01 16:35:04 2015 Hora oficial do Brasil (GMT-3:00)		
Date	wed apr 01 16:35:33 2015 Hora oficial do Brasil (GMT-3:00)			***Technique***	Infrared	***Instrument***	Spectrum Two
Spectral Region	IR	***X Axis***	Wavenumber (cm-1)	***Y Axis***	%Transmittance	***Spectrum Range***	550.0000 - 4000.0000
Points Count	3451	***Data Spacing***	1.0000				

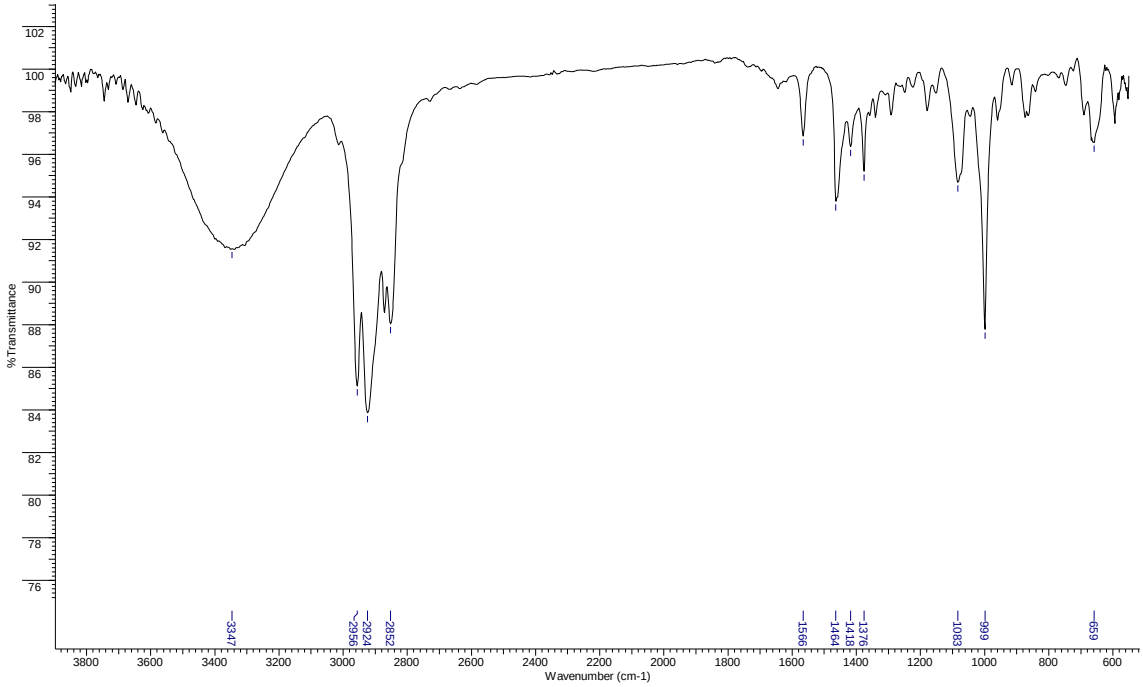


Figure S226: IR spectrum of compound **80**.

Copies of ^{1}H and ^{13}C NMR, IR, HRMS, UV−Vis, and Circular Dichroism spectra for marinisporolide C:

Acquisition Time (sec)	2.6564	***Date***	14 Aug 2015 13:37:10				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2015\ago14erjH3_001001r					***Frequency (MHz)***	600.17
Nucleus	1H	***Number of Transients***	512	***Original Points Count***	32768	***Points Count***	65536
Pulse Sequence	zg30	***Solvent***	DMSO-D6	***Sweep Width (Hz)***	12335.53	***Temperature (degree C)***	25.151

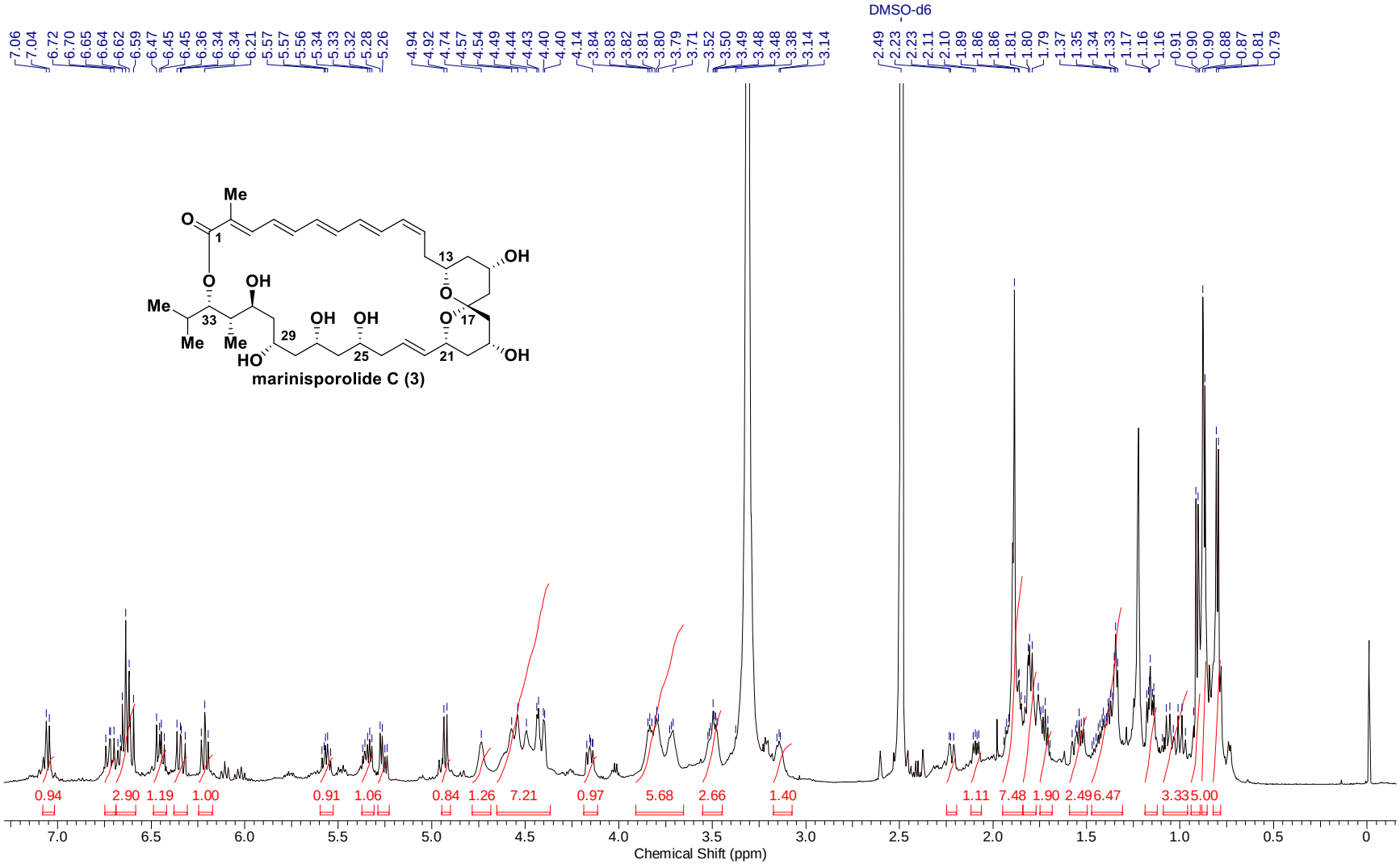


Figure S227: ^{1}H NMR spectrum of marinisporolide C (**3**) (600 MHz, DMSO-d_6).

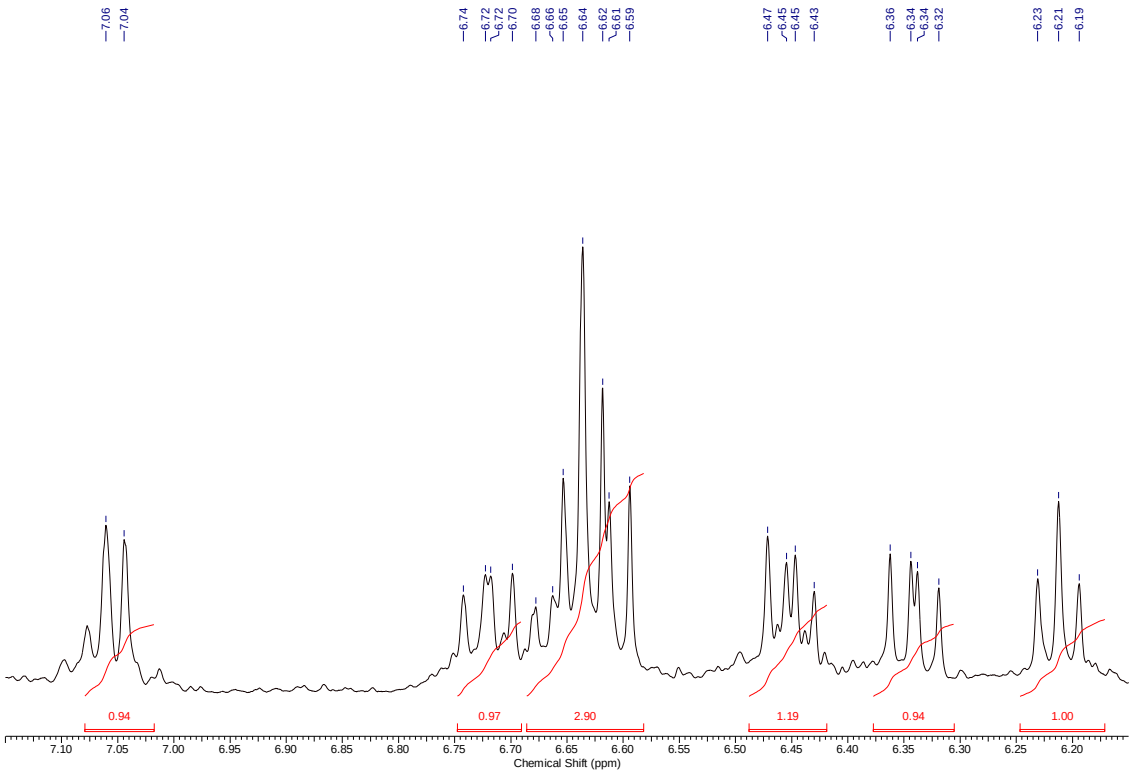


Figure S228: ^{1}H NMR spectrum of marinisporolide C (**3**): 6.15−7.15 region.

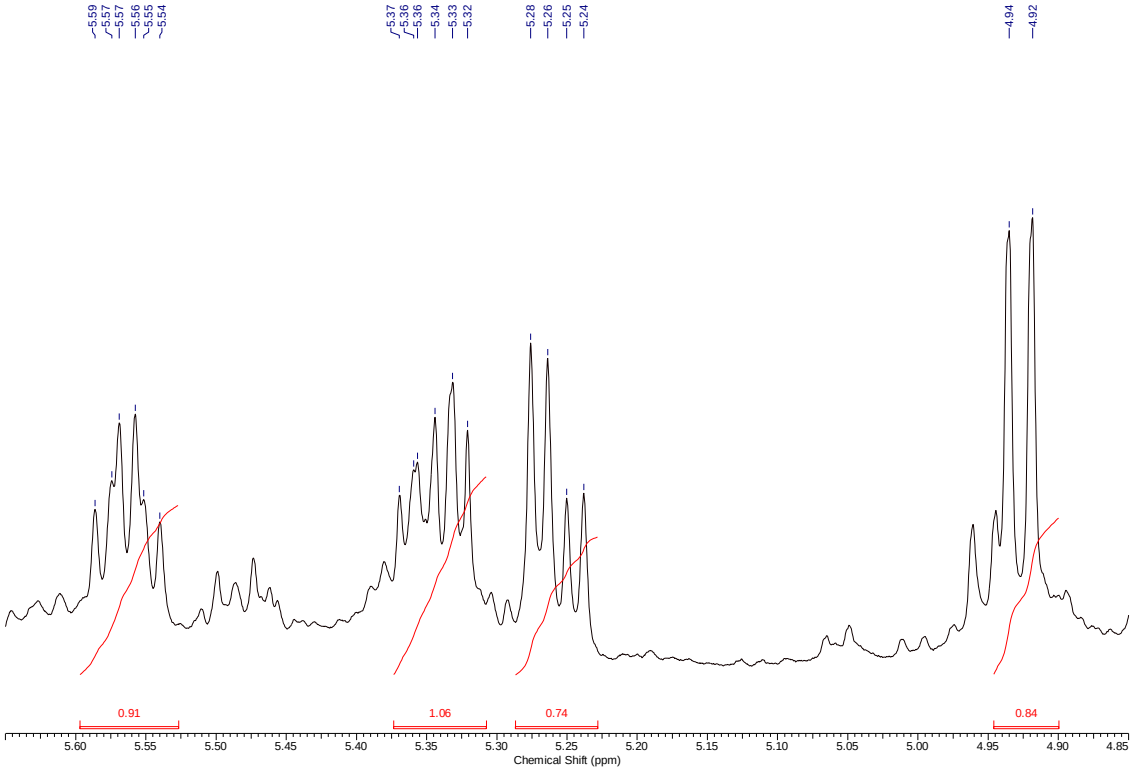


Figure S229: ^{1}H NMR spectrum of marinisporolide C (**3**): 4.85−5.65 region.

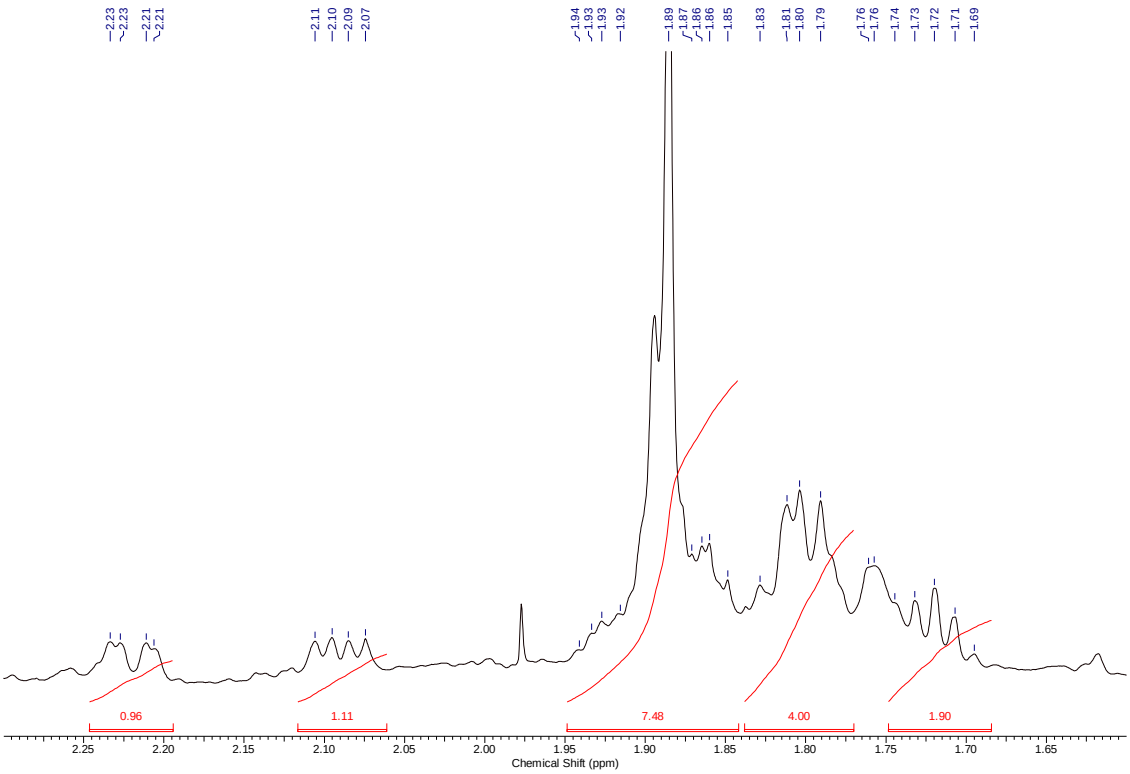


Figure S230: ^{1}H NMR spectrum of marinisporolide C (**3**): 1.60−2.30 region.

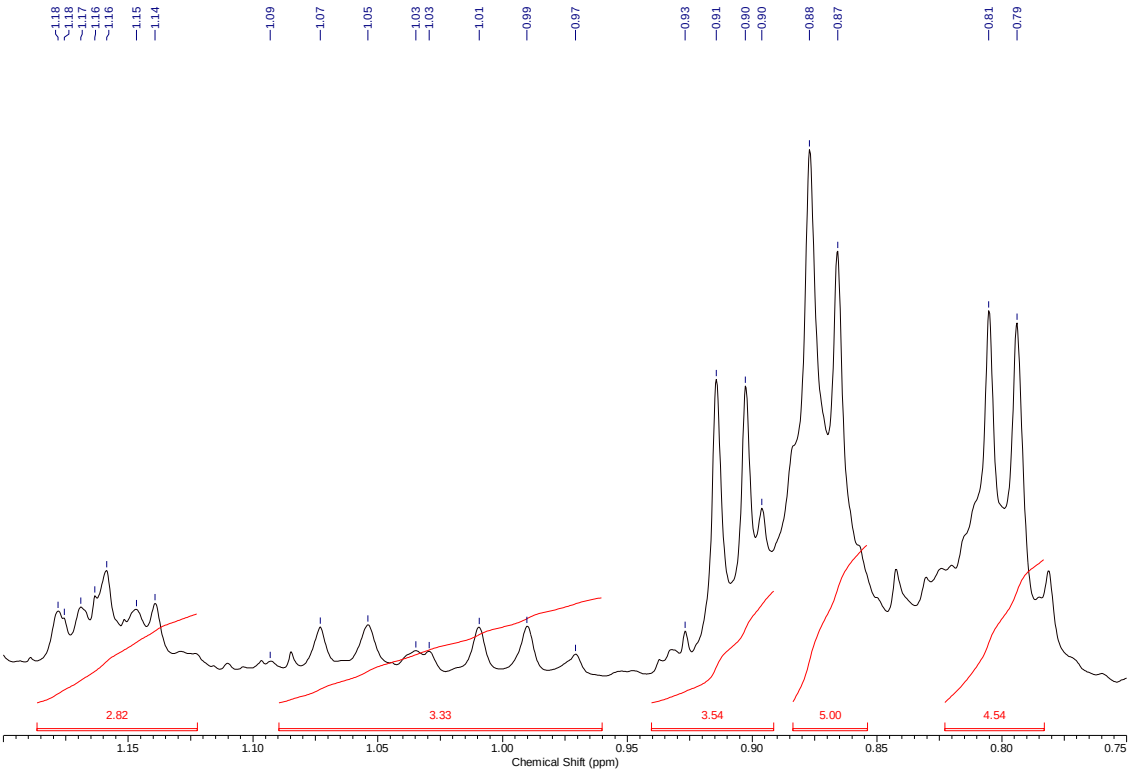


Figure S231: ^{1}H NMR spectrum of marinisporolide C (**3**): 0.75−1.20 region.

Acquisition Time (sec)	0.4544	***Date***	17 Aug 2015 06:14:28				
File Name	C:\Users\Emílio\Desktop\Doutorado\RMN\2015\ago14erjC3_001001r					***Frequency (MHz)***	150.91
Nucleus	13C	***Number of Transients***	24461	***Original Points Count***	16384	***Points Count***	32768
Pulse Sequence	zgpg30	***Solvent***	DMSO-D6	***Sweep Width (Hz)***	36057.69	***Temperature (degree C)***	22.933

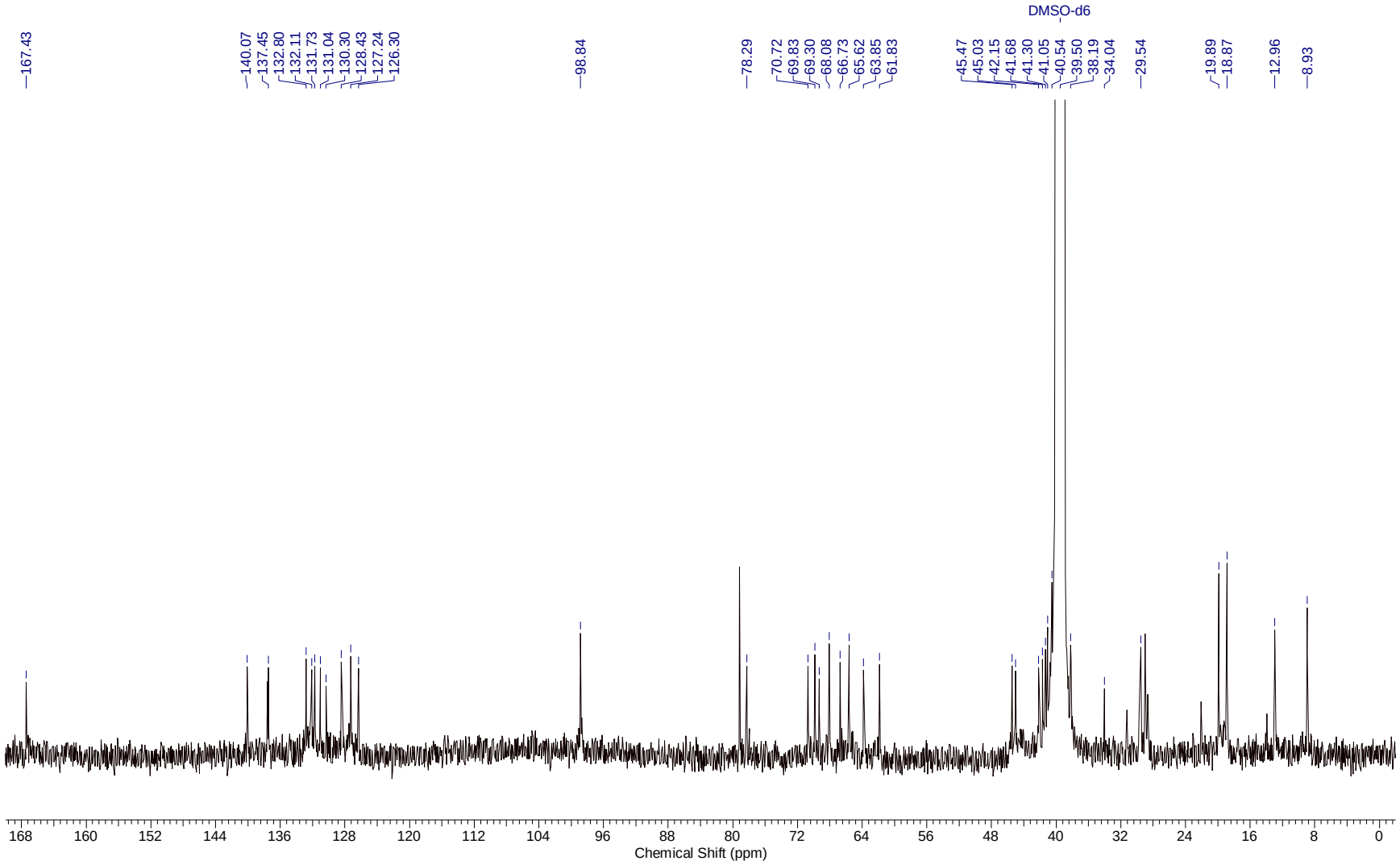


Figure S232: ^{13}C NMR spectrum of marinisporolide C (**3**) (150 MHz, DMSO-d_6).

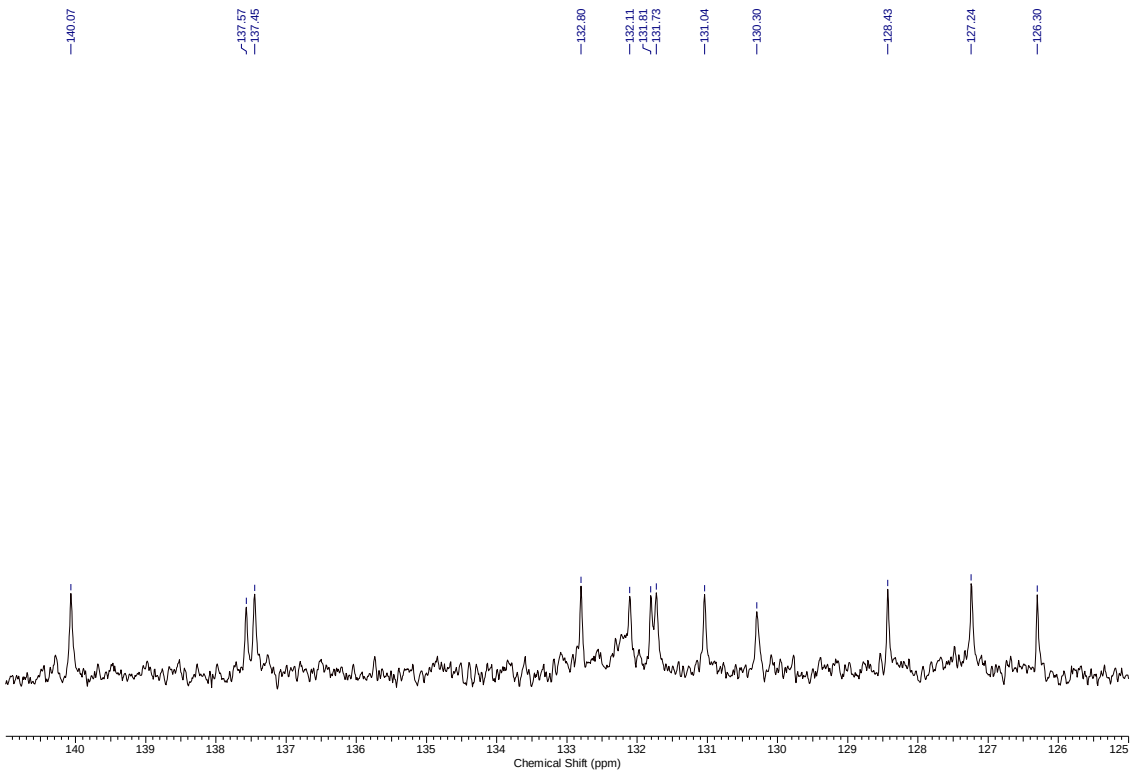


Figure S233: ^{13}C NMR spectrum of marinisporolide C (**3**): 125.0−141.0 region.

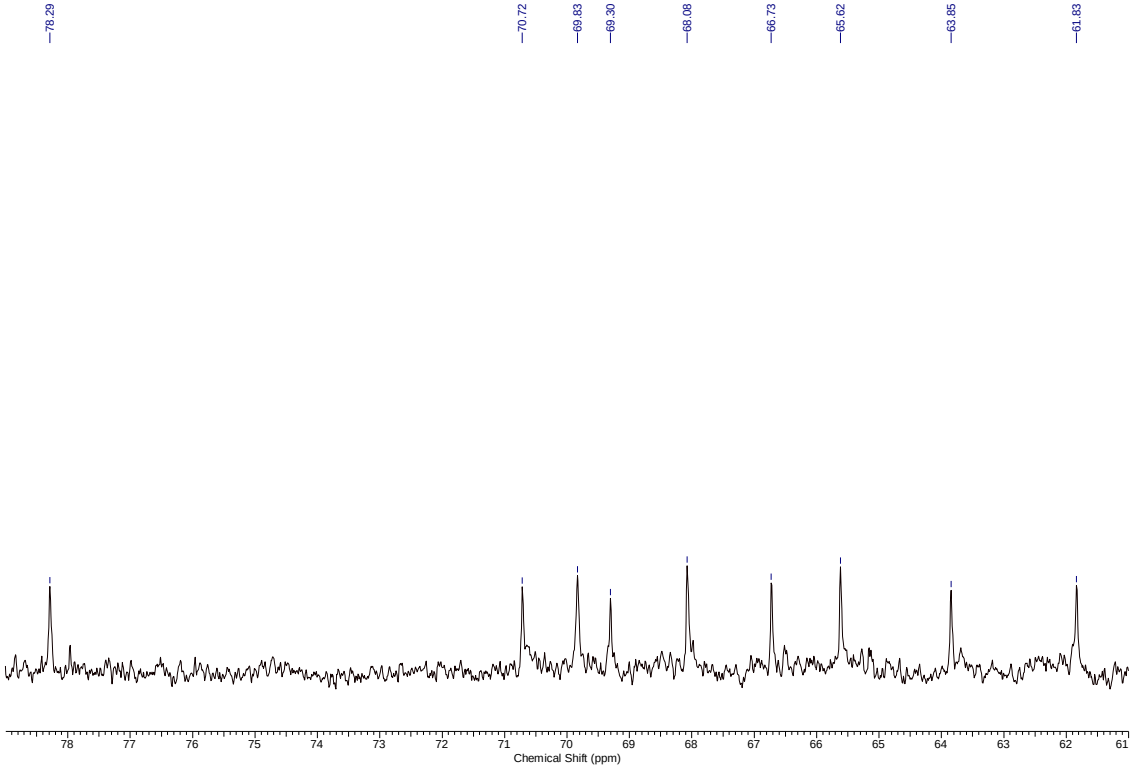


Figure S234: ^{13}C NMR spectrum of marinisporolide C (**3**): 61.0−79.0 region.

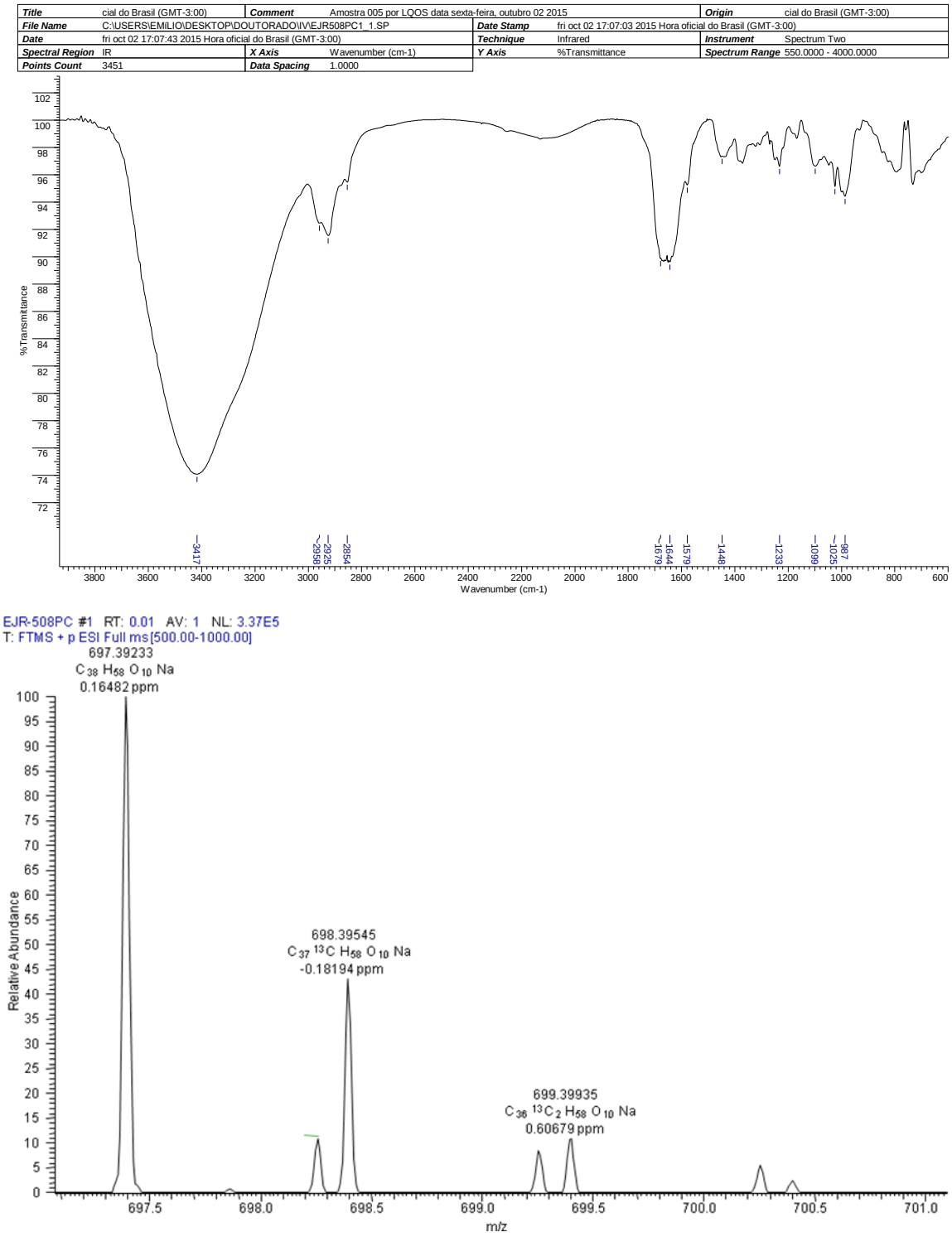


Figure S235: IR and HRMS (ESI FTMS) spectra of marinisporolide C (**3**).

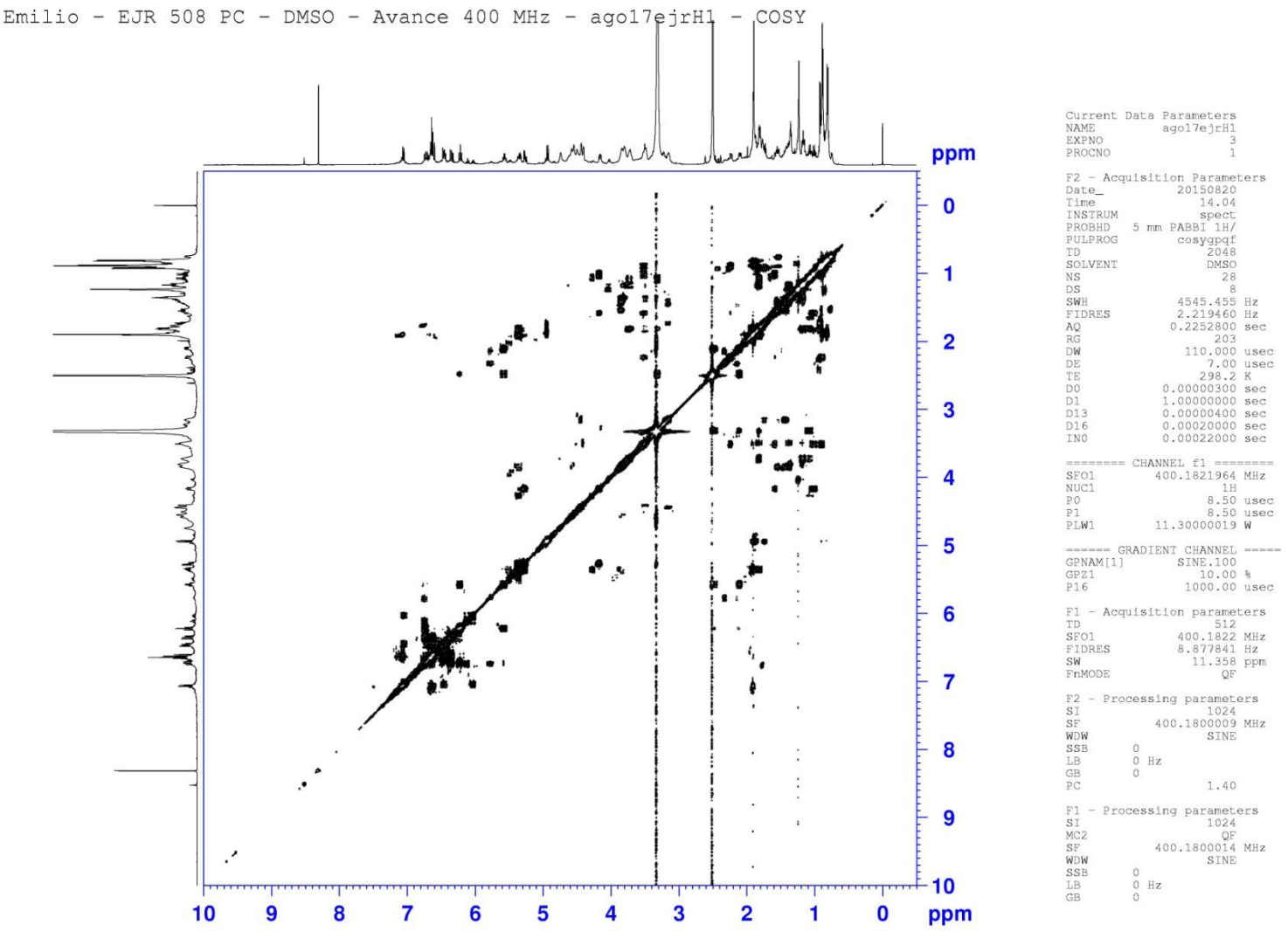


Figure S236: COSY contour map of marinisporolide C (**3**) (400 MHz, DMSO-d_6).

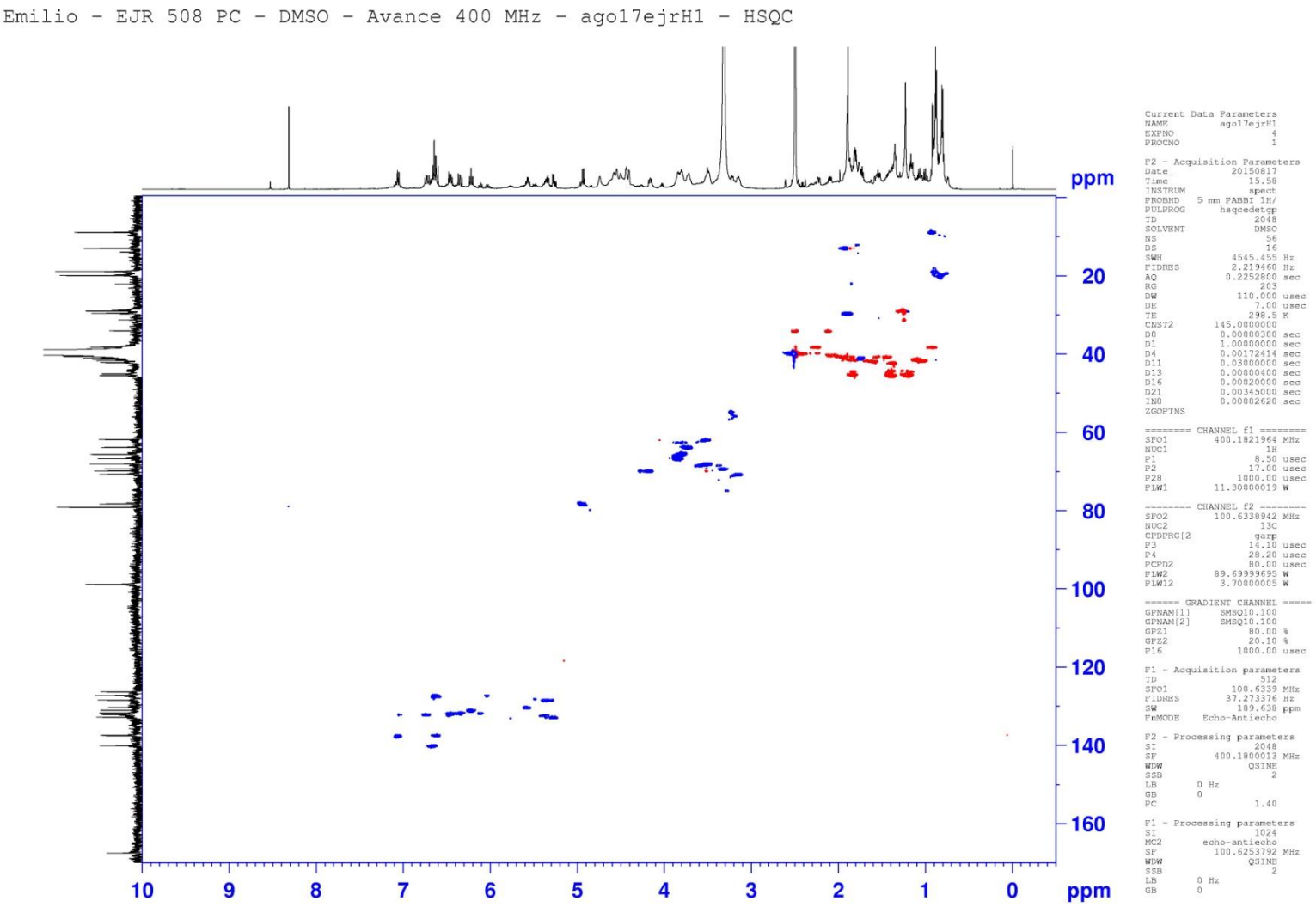


Figure S237: HSQC contour map of marinisporolide C (**3**) (400 MHz, DMSO-d_6).

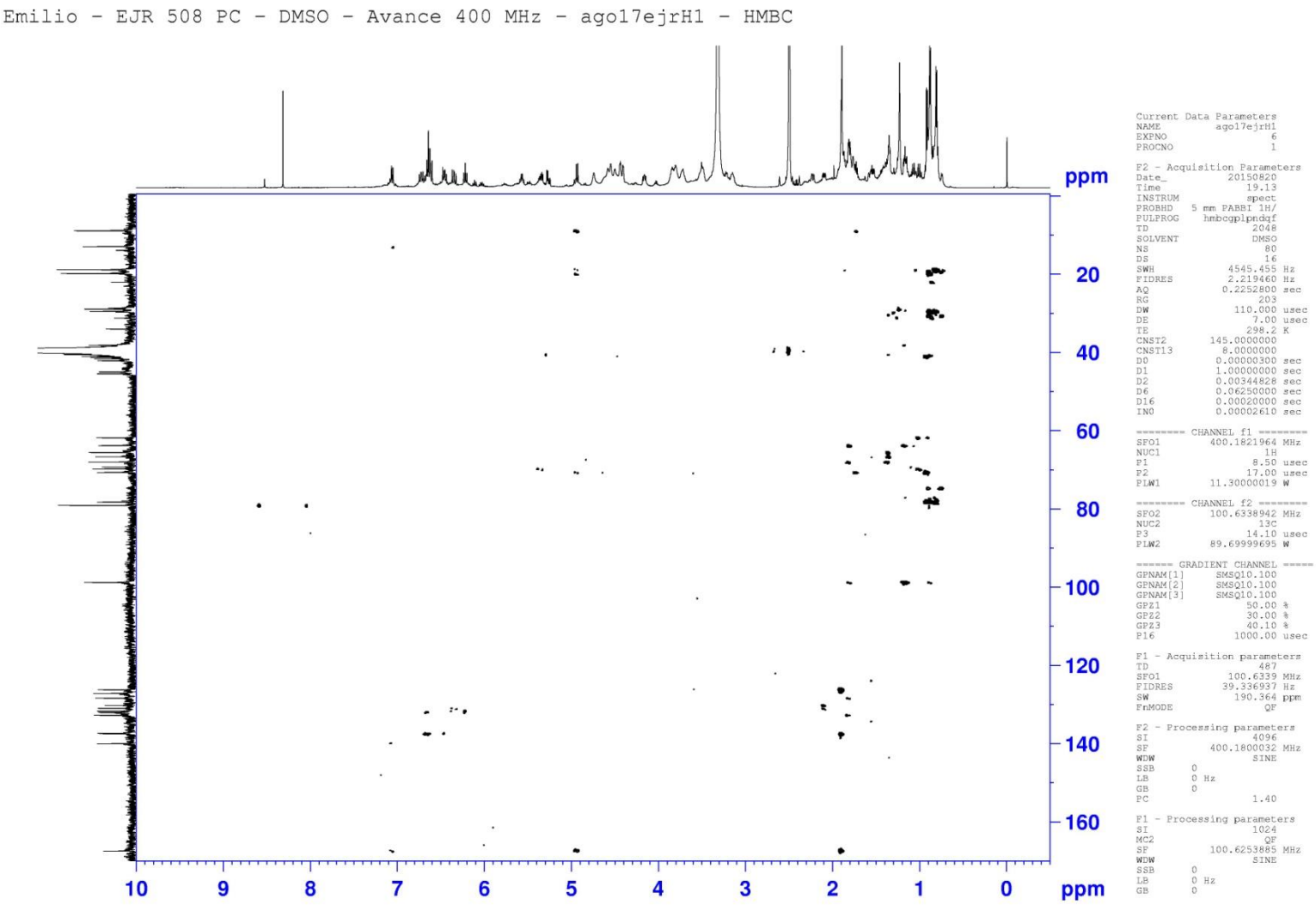


Figure S238: HMBC contour map of marinisporolide C (**3**) (400 MHz, DMSO-d_6).

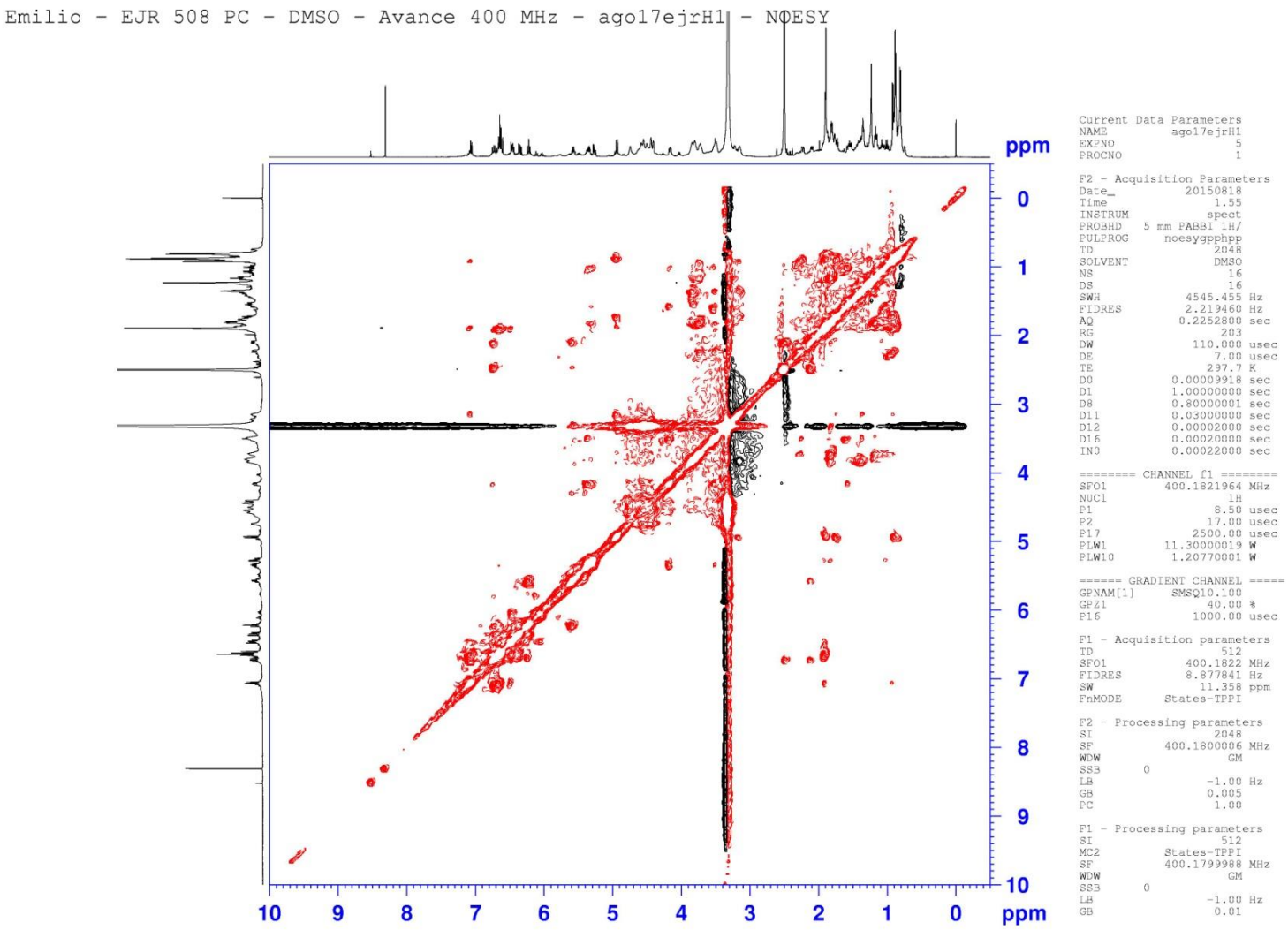


Figure S239: NOESY contour map of marinisporolide C (**3**) (400 MHz, DMSO-d_6).

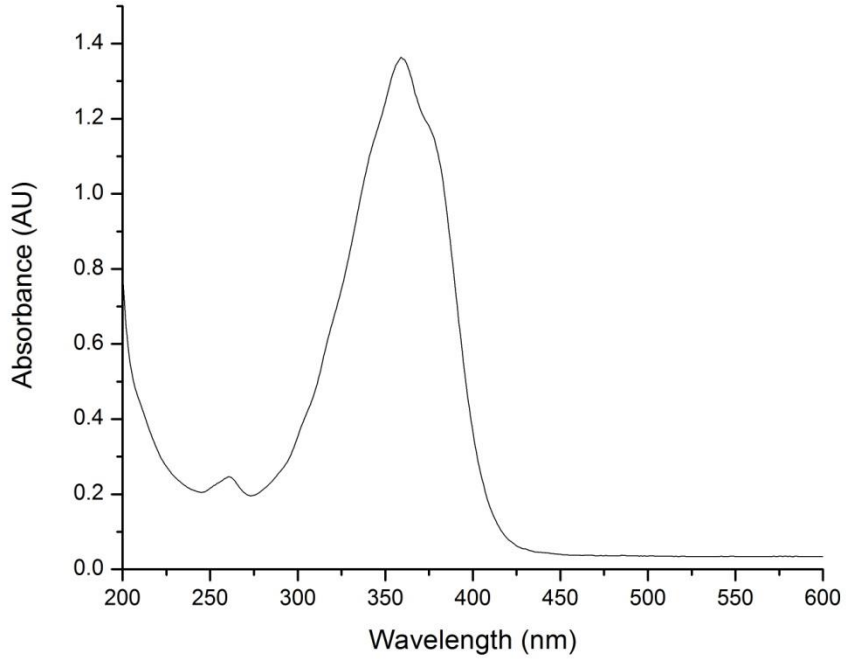


Figure S240: UV−Vis spectrum of marinisporolide C (**3**) (MeOH).

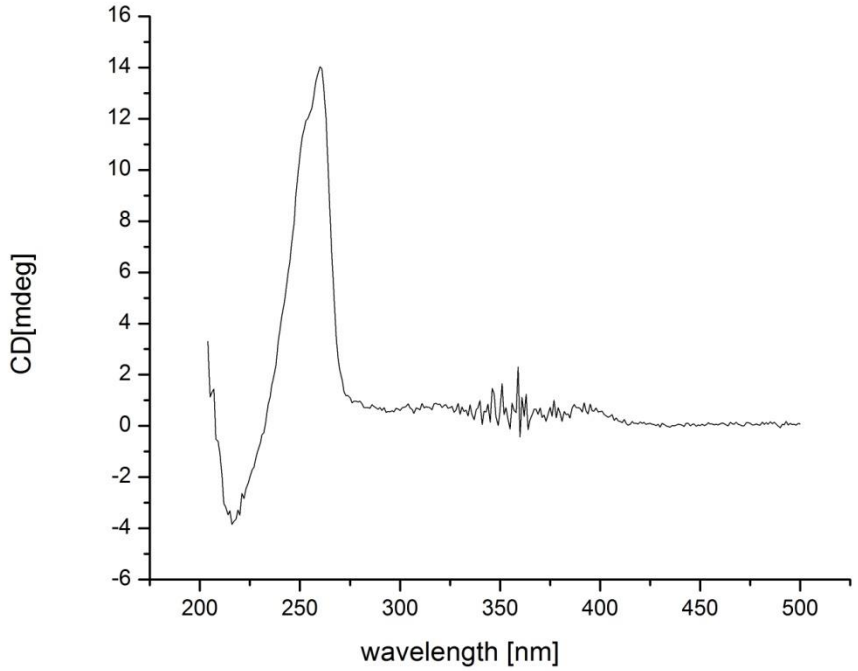


Figure S241: Circular Dichroism spectrum of marinisporolide C (**3**) (MeOH).