

Electronic Supplementary Information for

**Synthesis of Cyclic Polyesters: Effects of Alkoxy Side Chain in
Salicylaldiminato Tin(II) Complexes**

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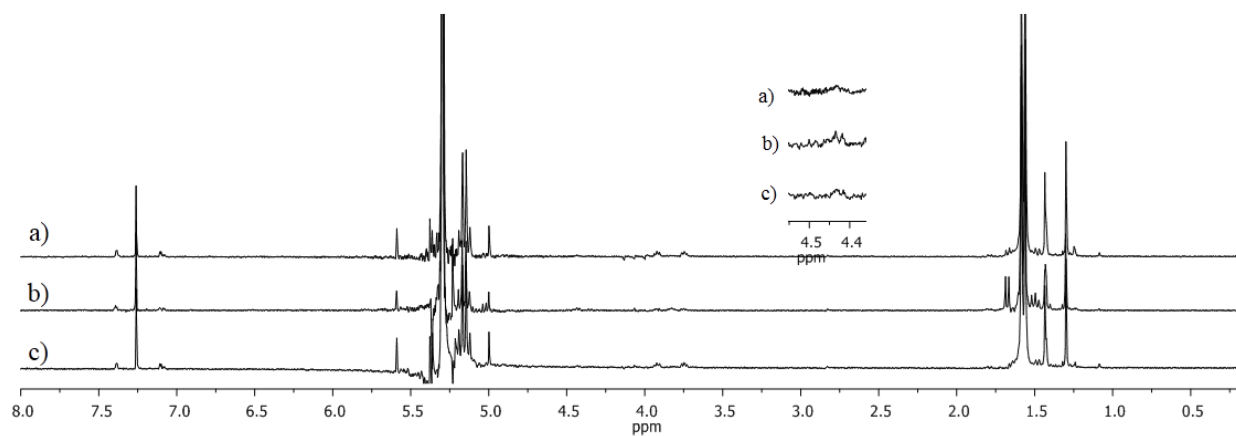


Figure S1 ^1H NMR spectra of PLA synthesized from LA:**2a** = 10:1 at 110 °C quenched at a) 2 min, b) 10 min, and c) 30 min.

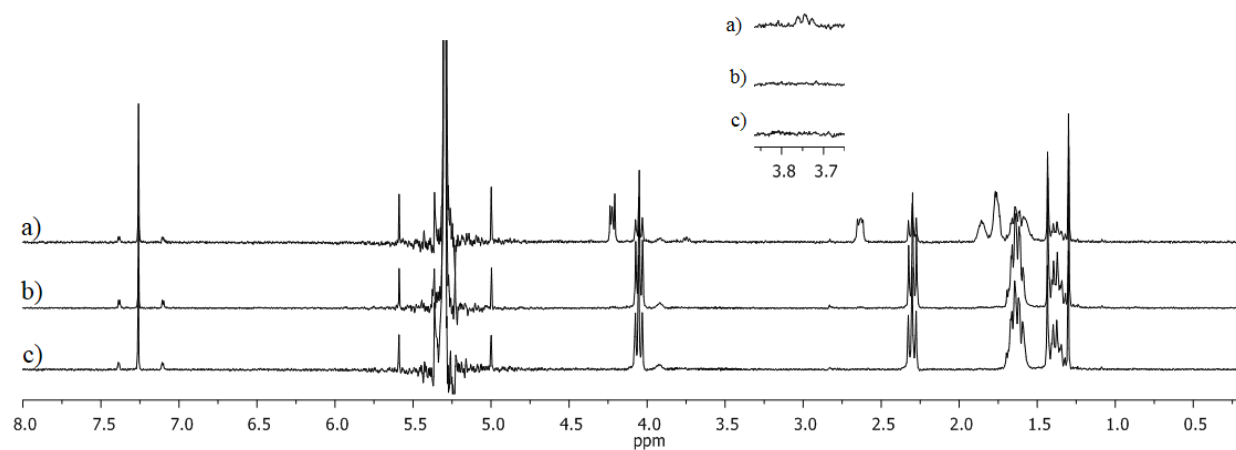


Figure S2 ^1H NMR spectra of PCL synthesized from CL:**2a** = 10:1 at 110 °C quenched at a) 2 min, b) 10 min, and c) 30 min.

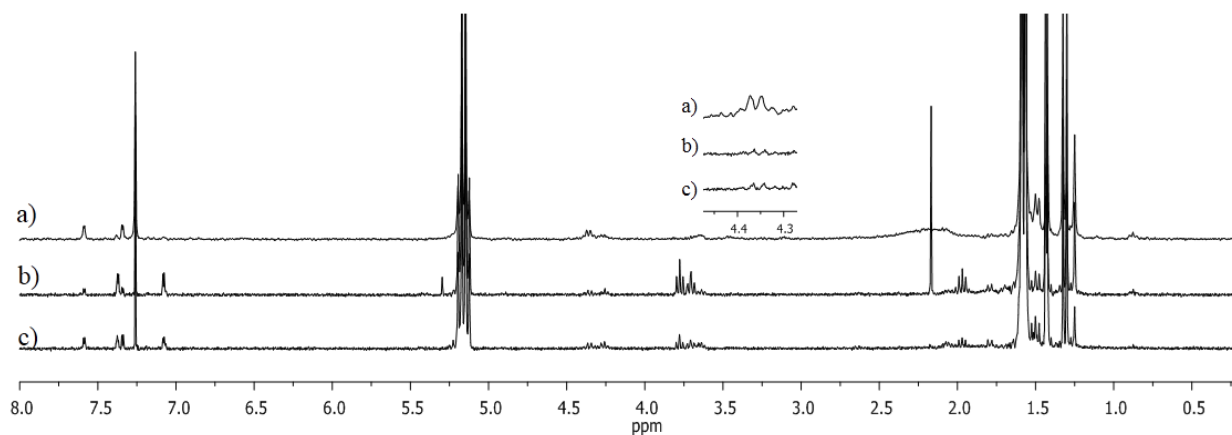


Figure S3 ^1H NMR spectra of PLA synthesized from LA:**2b** = 10:1 at 110 °C quenched at a) 2 min, b) 10 min, and c) 30 min.

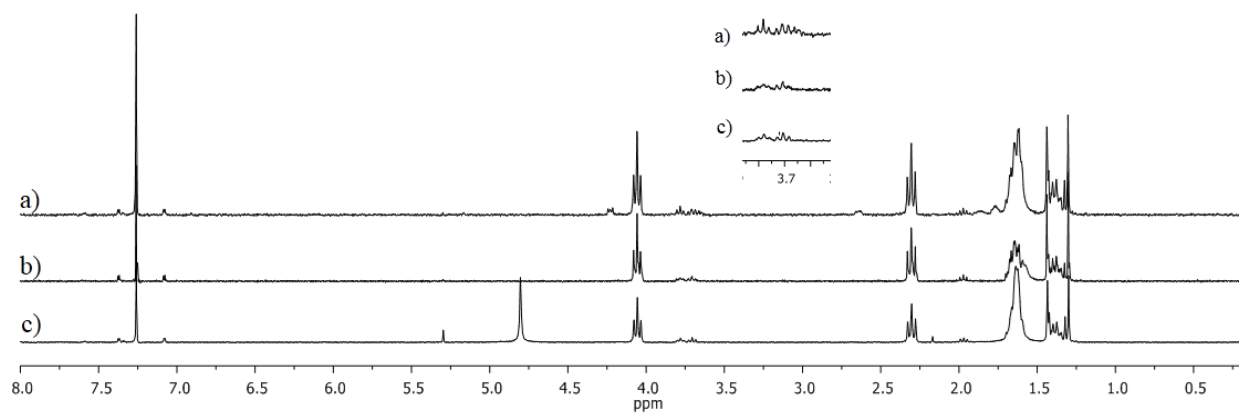


Figure S4 ^1H NMR spectra of PCL synthesized from CL:**2b** = 10:1 at 110 °C quenched at a) 2 min, b) 10 min, and c) 30 min.

RDCTRI

Project Name nom

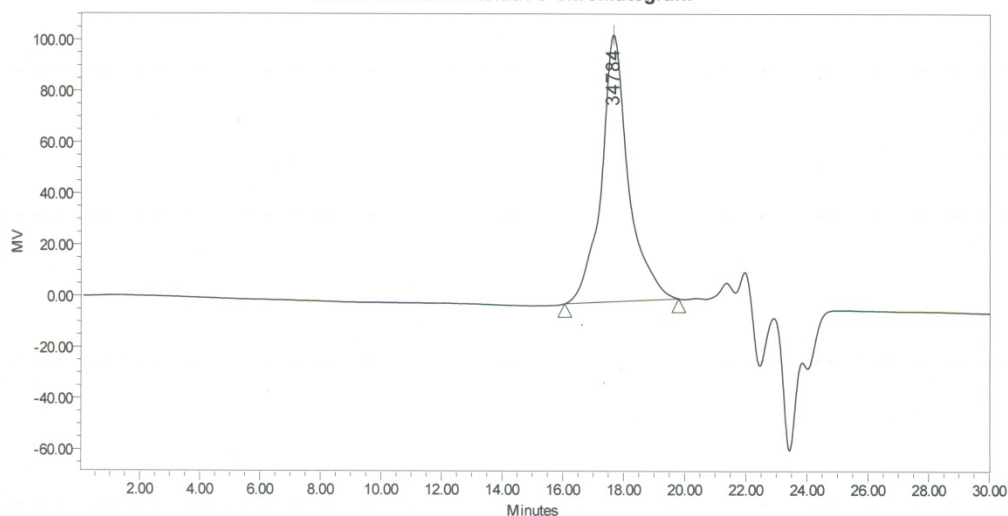
Reported by User: waters



SAMPLE INFORMATION

Sample Name:		Acquired By:	waters
Sample Type:	Broad Unknown	Date Acquired:	22/5/2012 10:25:18 ICT
Vial:	1:A,3	Acq. Method:	Khamphee method
Injection #:	1	Date Processed:	22/5/2012 11:44:50 ICT
Injection Volume:	100.00 ul	Channel Name:	410
Run Time:	30.00 Minutes	Channel Desc.:	
Column Type:		Sample Set Name:	KP_2012_05_22

Broad Unknown Relative Chromatogram



Broad Unknown Relative Peak Table

	Distribution Name	Mn (Daltons)	Mw (Daltons)	MP (Daltons)	Mz (Daltons)	Mz+1 (Daltons)	Polydispersity	Mz/Mw	Mz+1/Mw
1		26514	36340	34784	47608	61366	1.370573	1.310069	1.688666

Report Method: Broad Unknown Relative

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Figure S5 GPC trace of PLA synthesized using complex **2a** at 110 °C and quenched at 4 h.

RDCTRI

Project Name nom

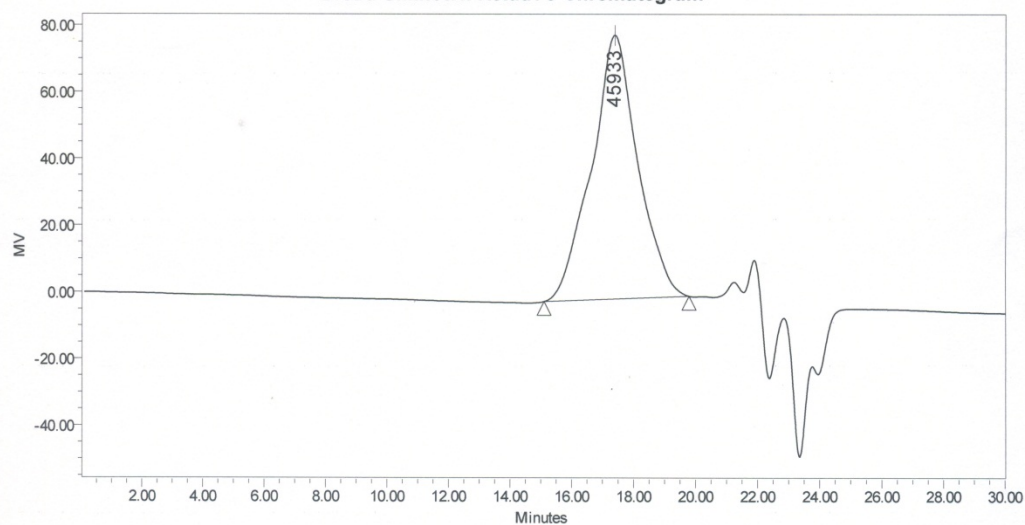
Reported by User: waters



SAMPLE INFORMATION

Sample Name:		Acquired By:	waters
Sample Type:	Broad Unknown	Date Acquired:	22/5/2012 11:59:04 ICT
Vial:	1:A,6	Acq. Method:	Khamphee method
Injection #:	1	Date Processed:	22/5/2012 12:39:03 ICT
Injection Volume:	100.00 ul	Channel Name:	410
Run Time:	30.00 Minutes	Channel Desc.:	
Column Type:		Sample Set Name:	KP_2012_05_22

Broad Unknown Relative Chromatogram



Broad Unknown Relative Peak Table

	Distribution Name	Mn (Daltons)	Mw (Daltons)	MP (Daltons)	Mz (Daltons)	Mz+1 (Daltons)	Polydispersity	Mz/Mw	Mz+1/Mw
1		33850	61766	45933	105936	159862	1.624690	1.715117	2.588195

Report Method: Broad Unknown Relative

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Figure S6 GPC trace of PLA synthesized using complex **2a** at 110 °C and quenched at 24 h.

RDCTRI

Project Name nom

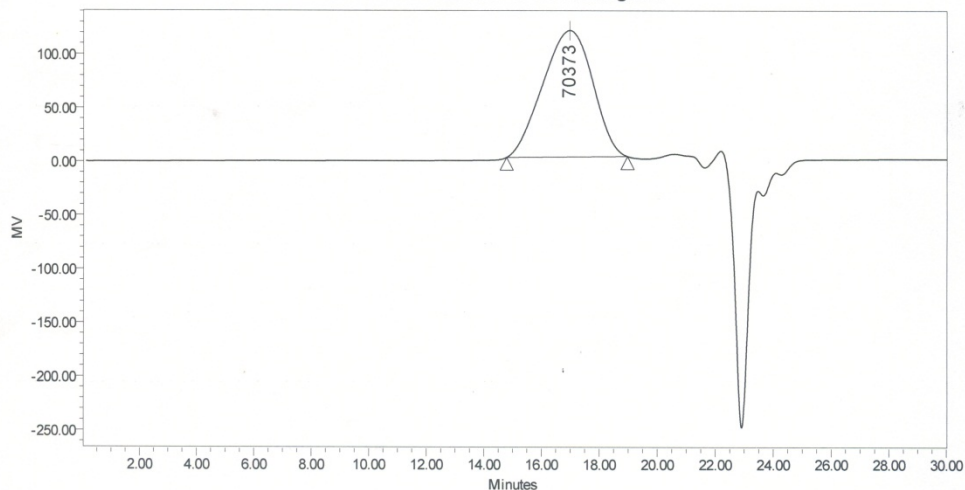
Reported by User: waters



SAMPLE INFORMATION

Sample Name:	C2	Acquired By:	waters
Sample Type:	Broad Unknown	Date Acquired:	29/3/2012 13:31:43 ICT
Vial:	1:B,2	Acq. Method:	Khamphee method
Injection #:	1	Date Processed:	29/3/2012 14:07:24 ICT
Injection Volume:	100.00 ul	Channel Name:	410
Run Time:	30.00 Minutes	Channel Desc.:	
Column Type:		Sample Set Name:	KP_2012_03_29

Broad Unknown Relative Chromatogram



Broad Unknown Relative Peak Table

	Distribution Name	Mn (Daltons)	Mw (Daltons)	MP (Daltons)	Mz (Daltons)	Mz+1 (Daltons)	Polydispersity	Mz/Mw	Mz+1/Mw
1		58416	104186	70373	176570	258082	1.783525	1.694758	2.477126

Report Method: Broad Unknown Relative
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Figure S7 GPC trace of PCL synthesized using complex **2a** at 110 °C and quenched at 1.5 h.

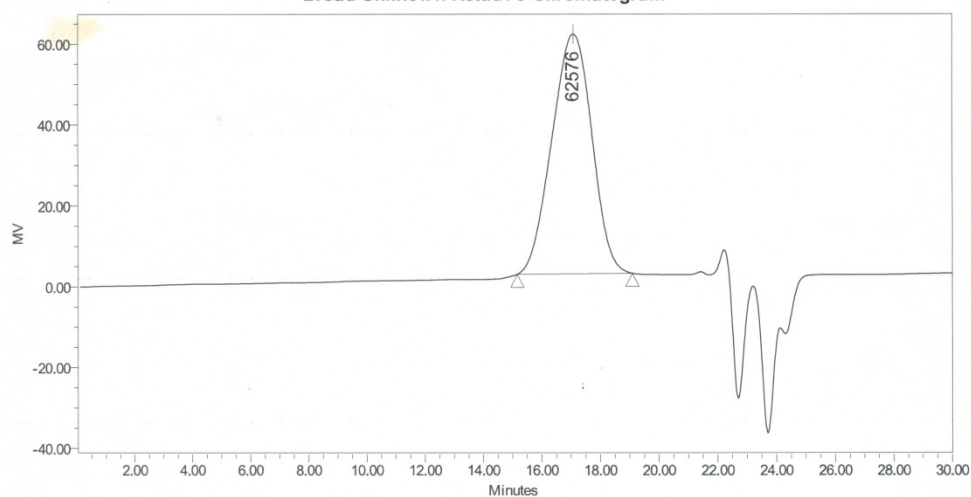
RDCTRI

Project Name nom
Reported by User: waters

SAMPLE INFORMATION

Sample Name:	C24h	Acquired By:	waters
Sample Type:	Broad Unknown	Date Acquired:	5/4/2012 15:07:08 ICT
Vial:	1:A,4	Acq. Method:	Khamphée method
Injection #:	1	Date Processed:	5/4/2012 15:59:41 ICT
Injection Volume:	100.00 ul	Channel Name:	410
Run Time:	30.00 Minutes	Channel Desc.:	
Column Type:		Sample Set Name:	KP_2012_04_05

Broad Unknown Relative Chromatogram



Broad Unknown Relative Peak Table

Distribution Name	Mn (Daltons)	Mw (Daltons)	MP (Daltons)	Mz (Daltons)	Mz+1 (Daltons)	Polydispersity	Mz/Mw	Mz+1/Mw
1	54064	80228	62576	116588	159155	1.483933	1.453207	1.983784

Report Method: Broad Unknown Relative
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Figure S8 GPC trace of PCL synthesized using complex **2a** at 110 °C and quenched at 24 h.

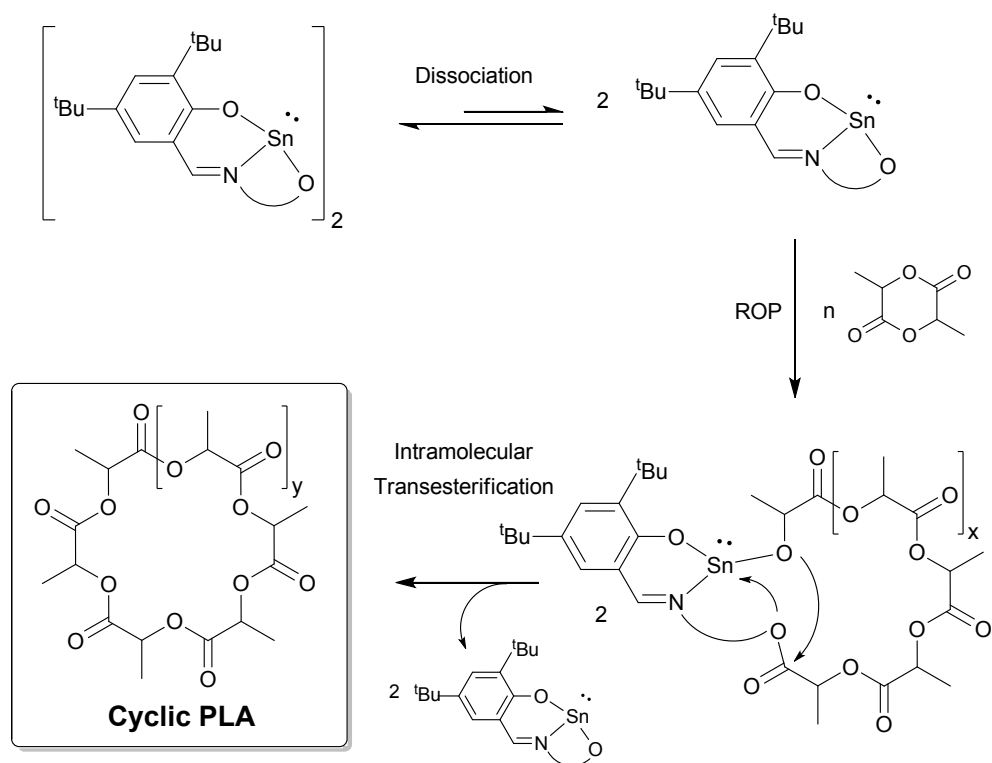


Figure S9 Proposed mechanism for the synthesis of cyclic polyesters.

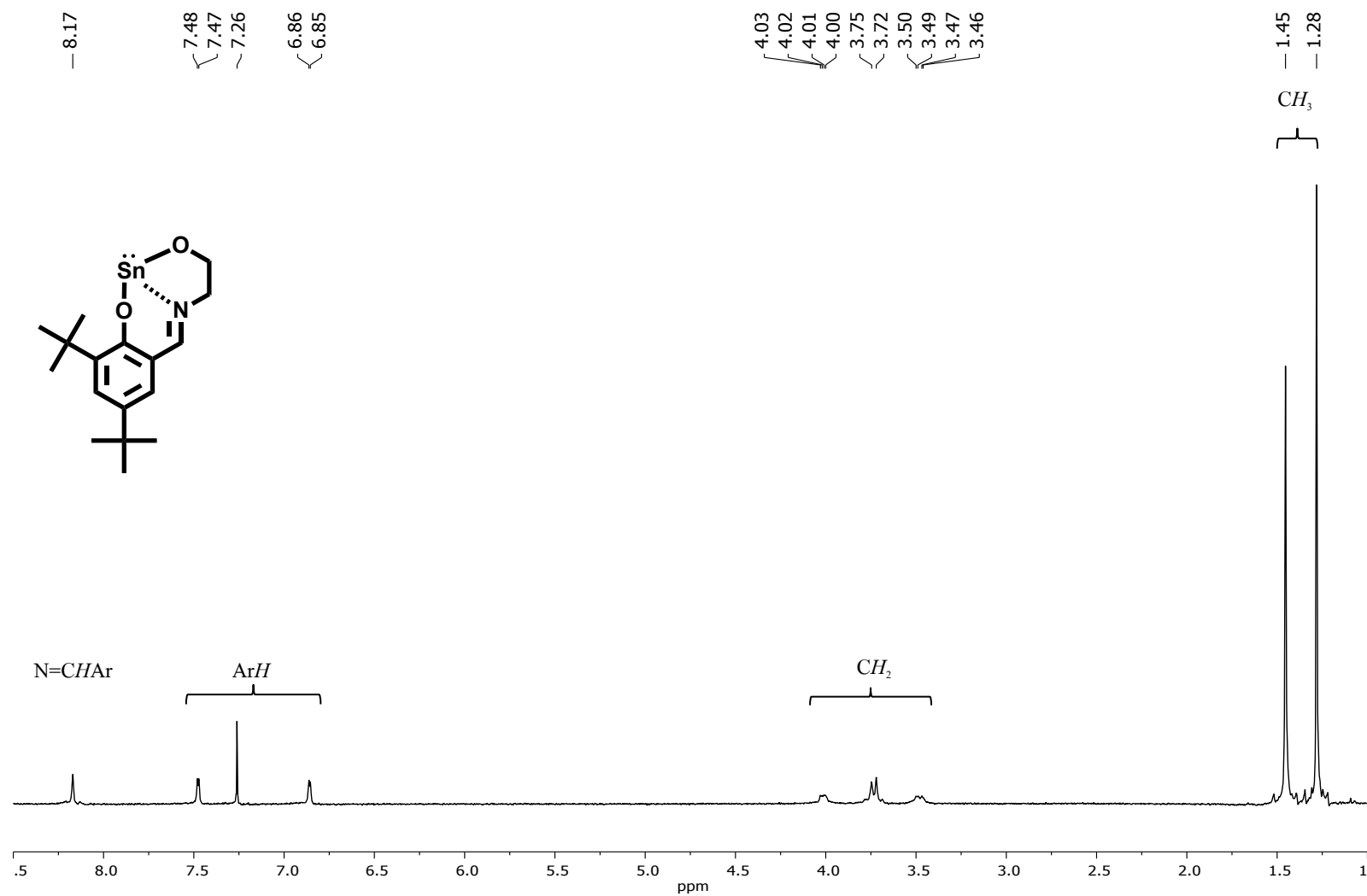


Figure S10 ^1H NMR spectra of **2a** (300 MHz, CDCl_3 , 25 °C).

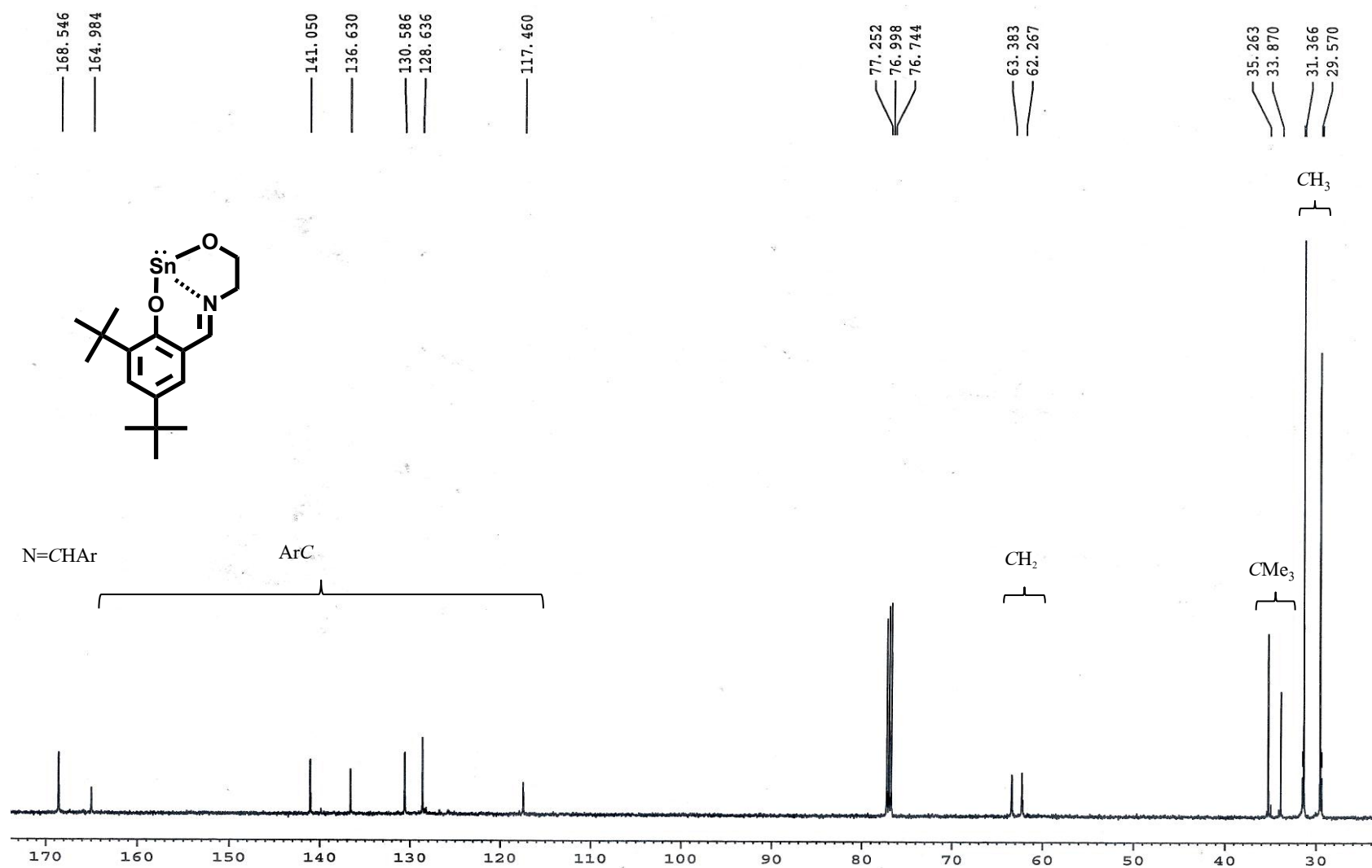


Figure S11 $^{13}\text{C}\{^1\text{H}\}$ NMR spectra of **2a** (125 MHz, CDCl_3 , 25 °C).

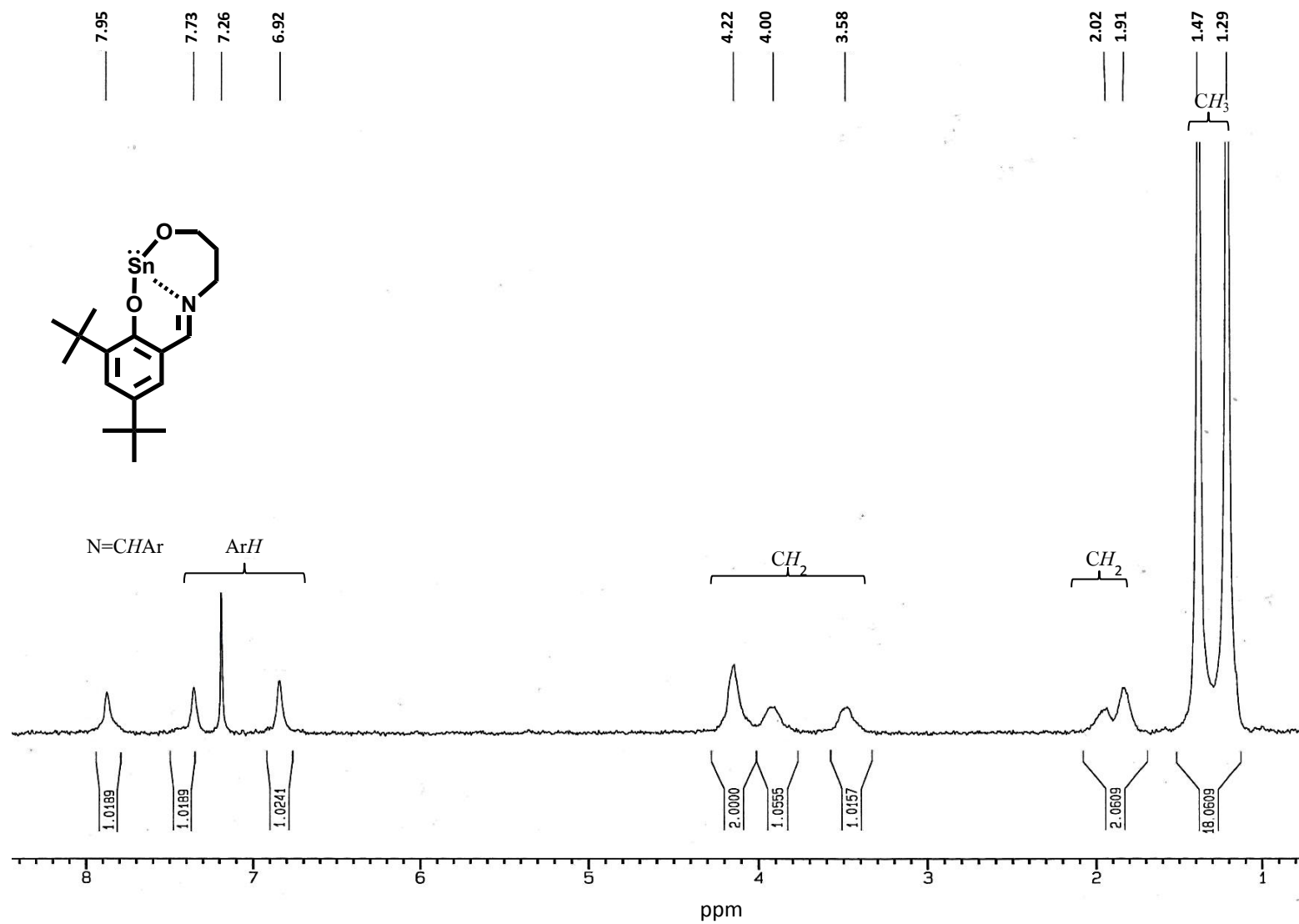


Figure S12 ¹H NMR spectra of **2b** (300 MHz, CDCl₃, 25 °C).

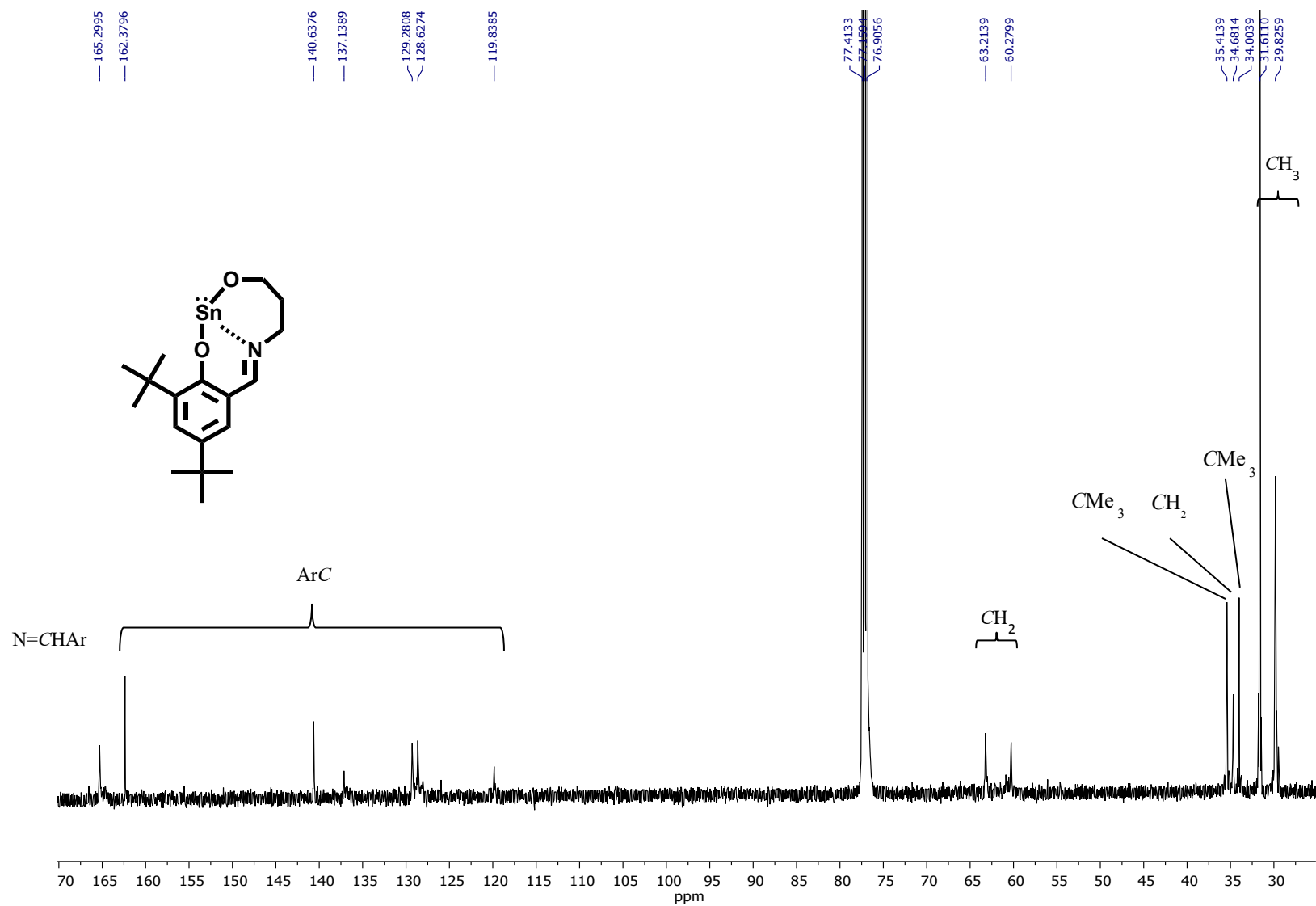


Figure S13 $^{13}\text{C}\{^1\text{H}\}$ NMR spectra of **2b** (125 MHz, CDCl_3 , 25 °C).

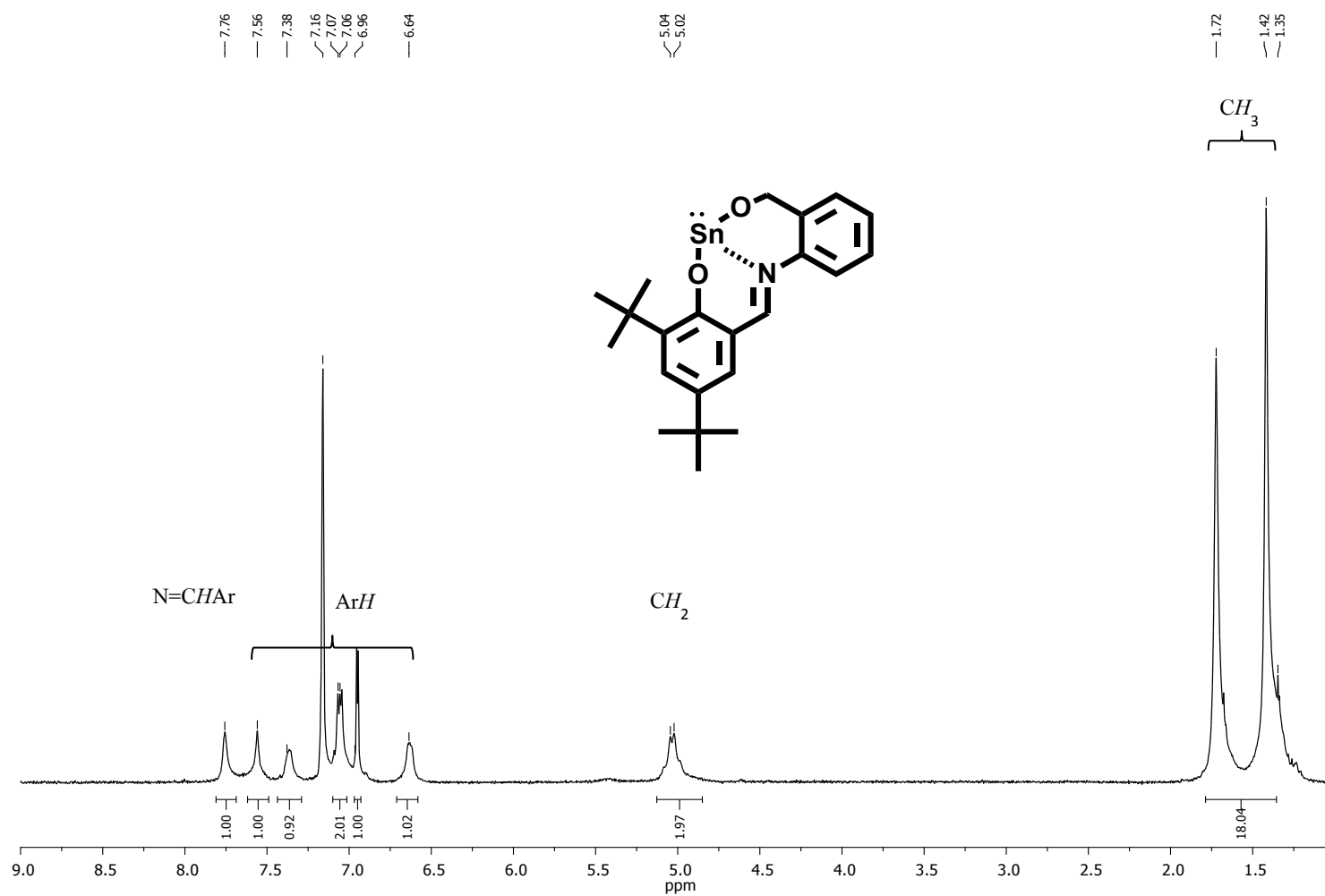


Figure S14 ¹H NMR spectra of **2c** (300 MHz, C₆D₆, 50 °C).

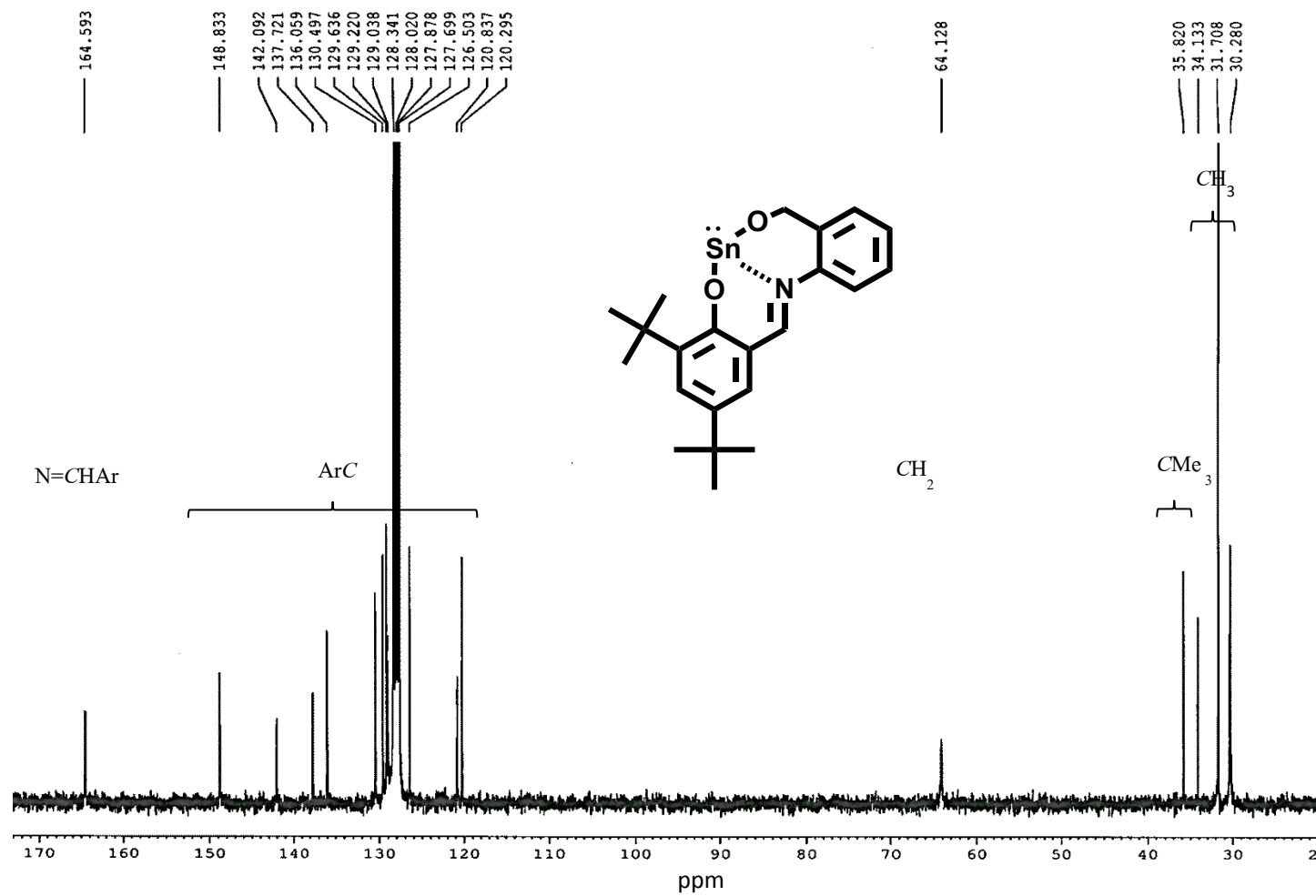


Figure S15 ¹³C{¹H} spectra of **2c** (125 MHz, C₆D₆, 50 °C).

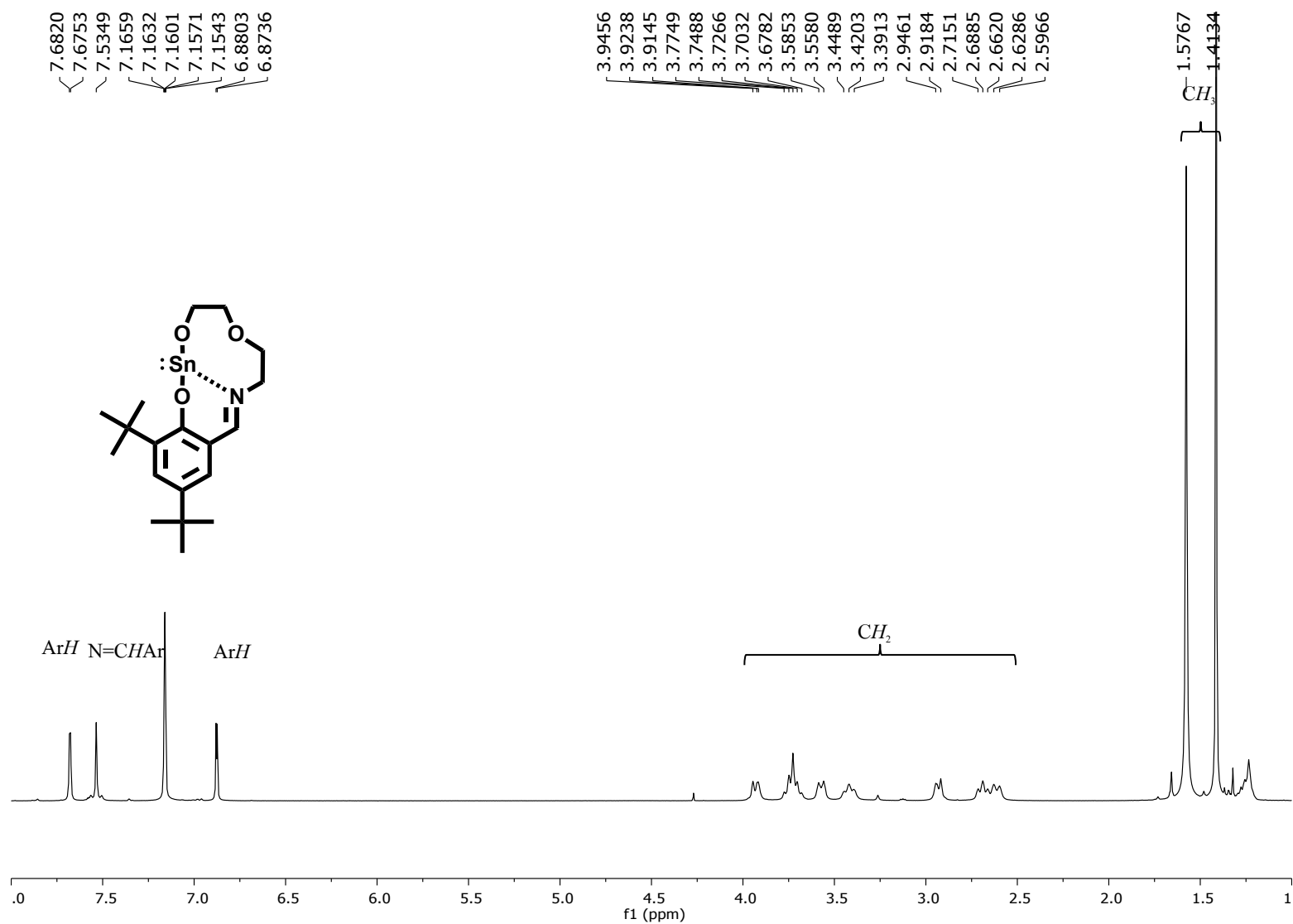


Figure S16 ¹H NMR spectra of **2d** (300d MHz, C₆D₆, 25 °C).

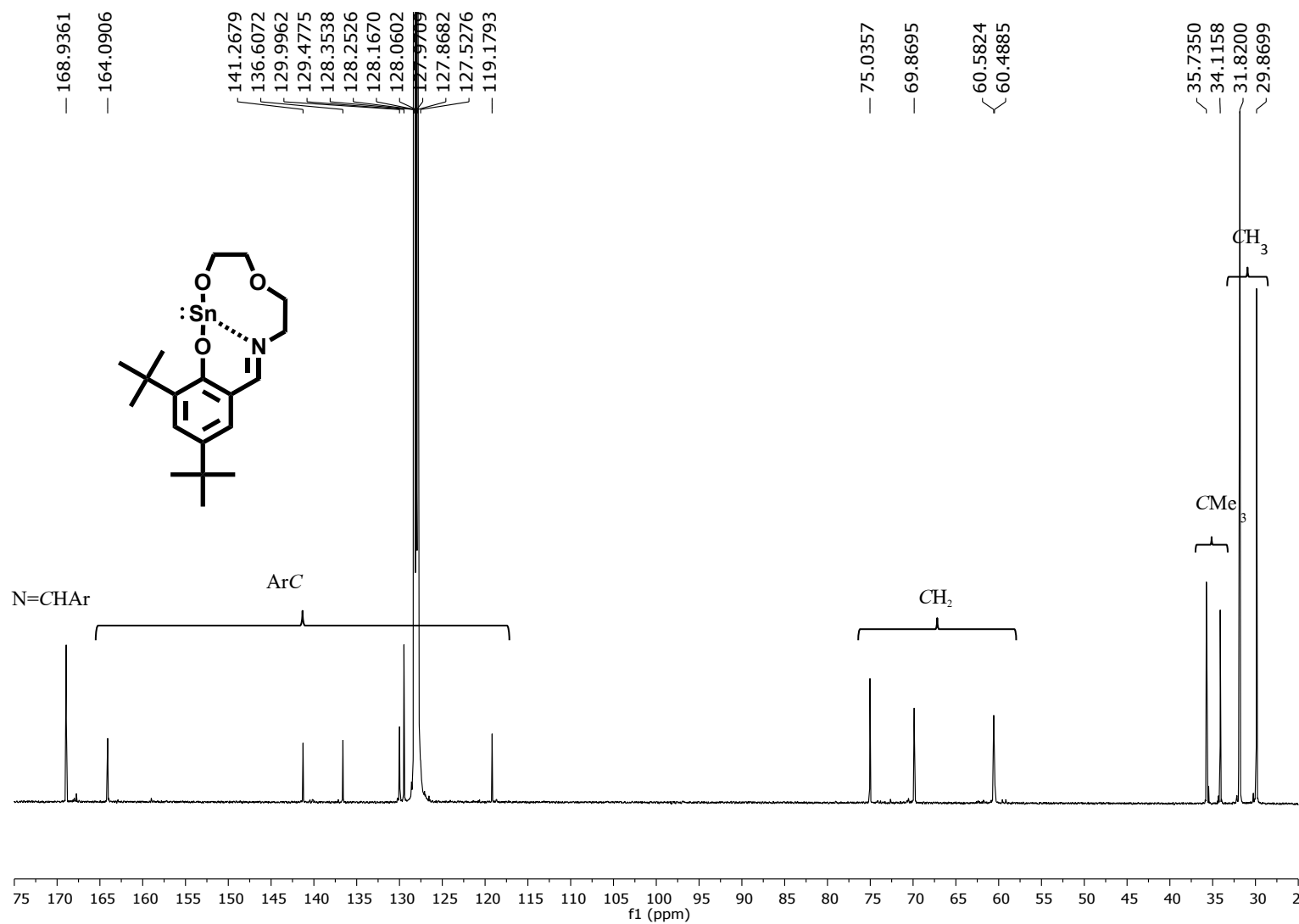


Figure S17 $^{13}\text{C}\{^1\text{H}\}$ NMR spectra of 2d (125 MHz, C_6D_6 , 25 °C).

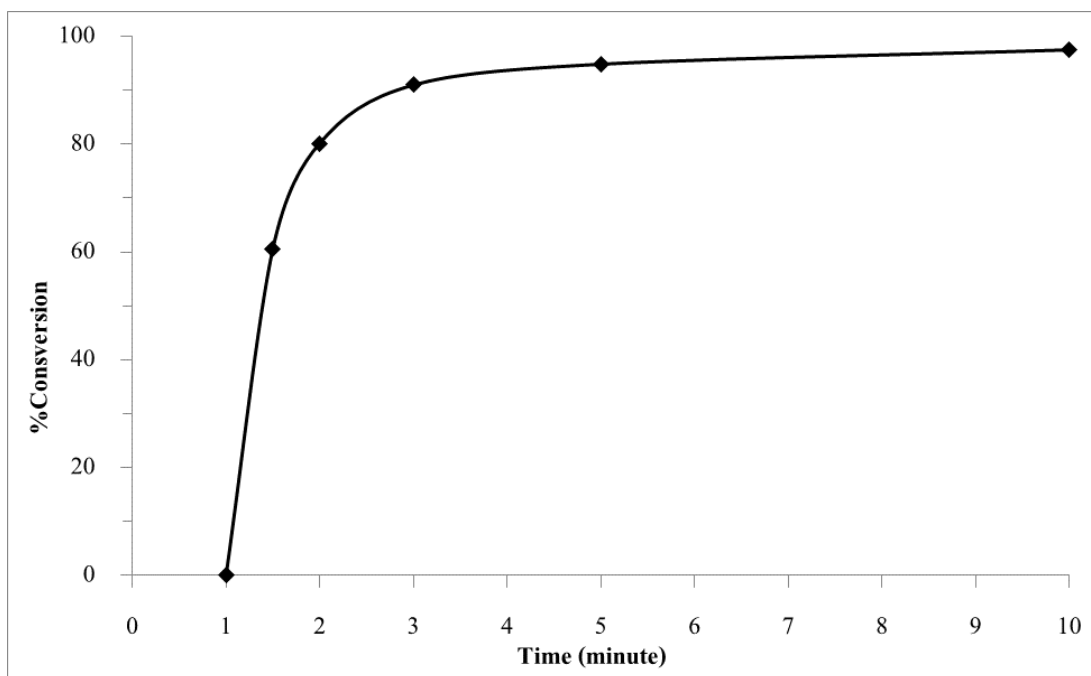


Figure S18 Neat polymerization of LA using LA:**2a** = 200:1 at 110 °C.

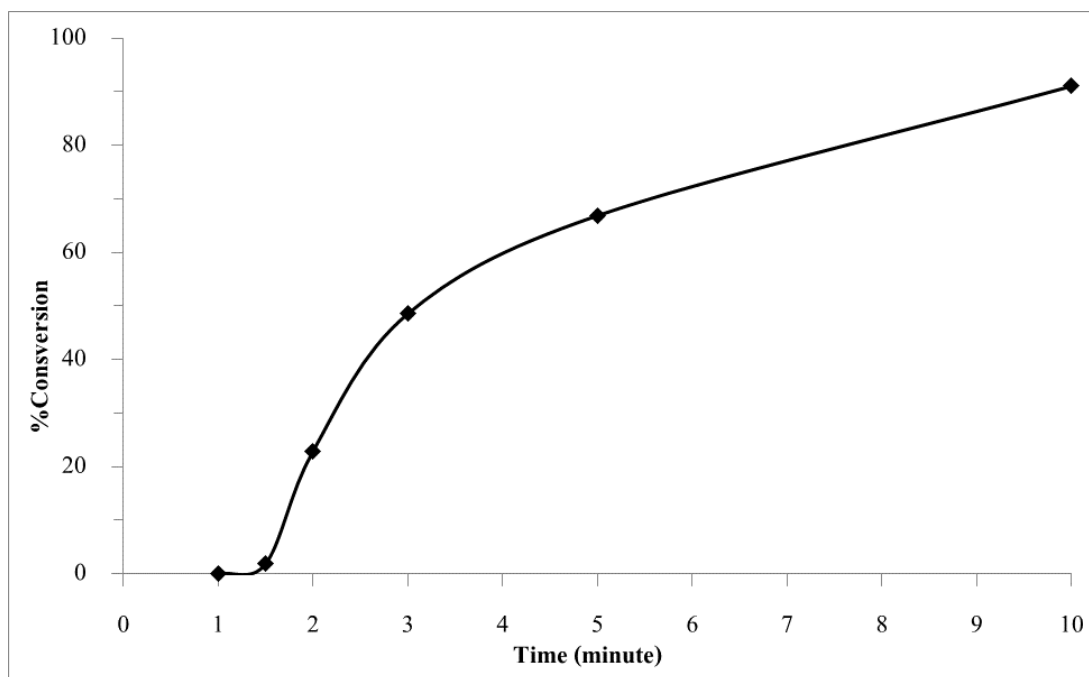


Figure S19 Neat polymerization of CL using CL:**2a** = 200:1 at 110 °C.

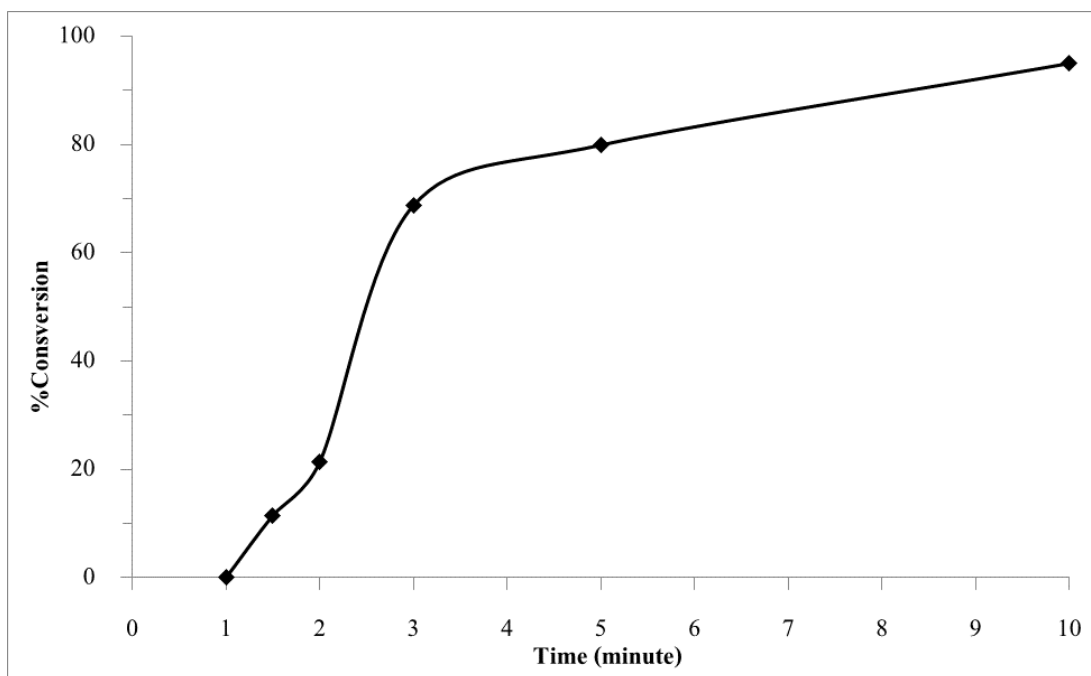


Figure S20 Neat polymerization of LA using LA:**2b** = 200:1 at 110 °C.

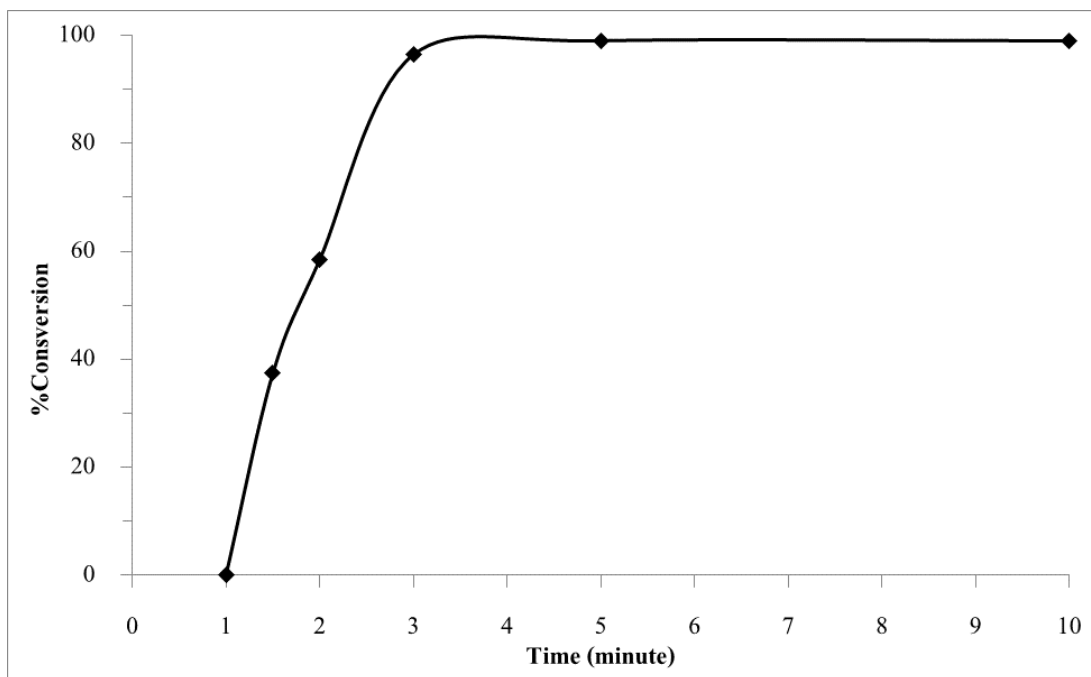


Figure S21 Neat polymerization of CL using CL:**2b** = 200:1 at 110 °C.

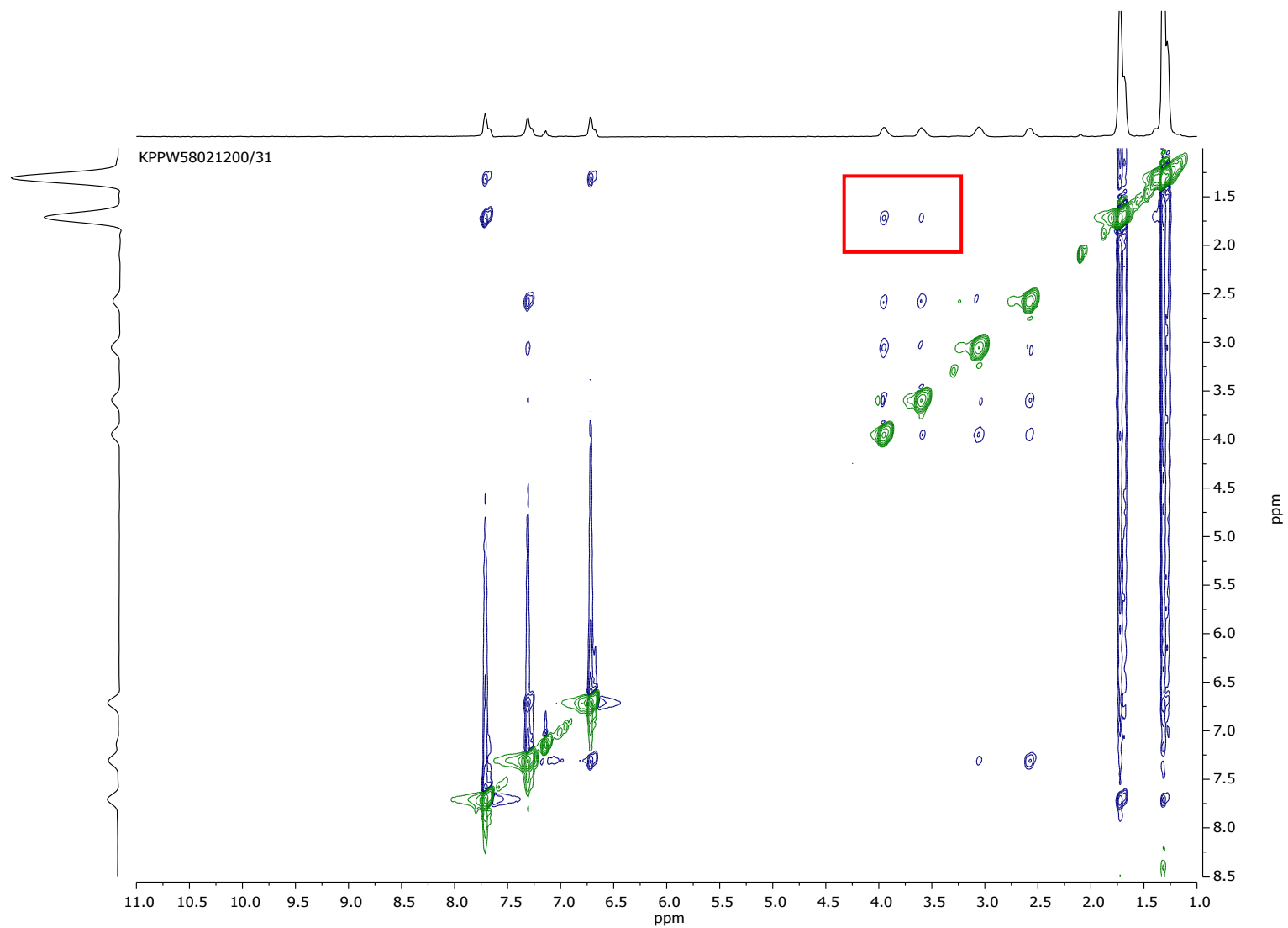


Figure S22 NOESY NMR spectra of **2a** (400 MHz, C₆D₆, 25 °C).

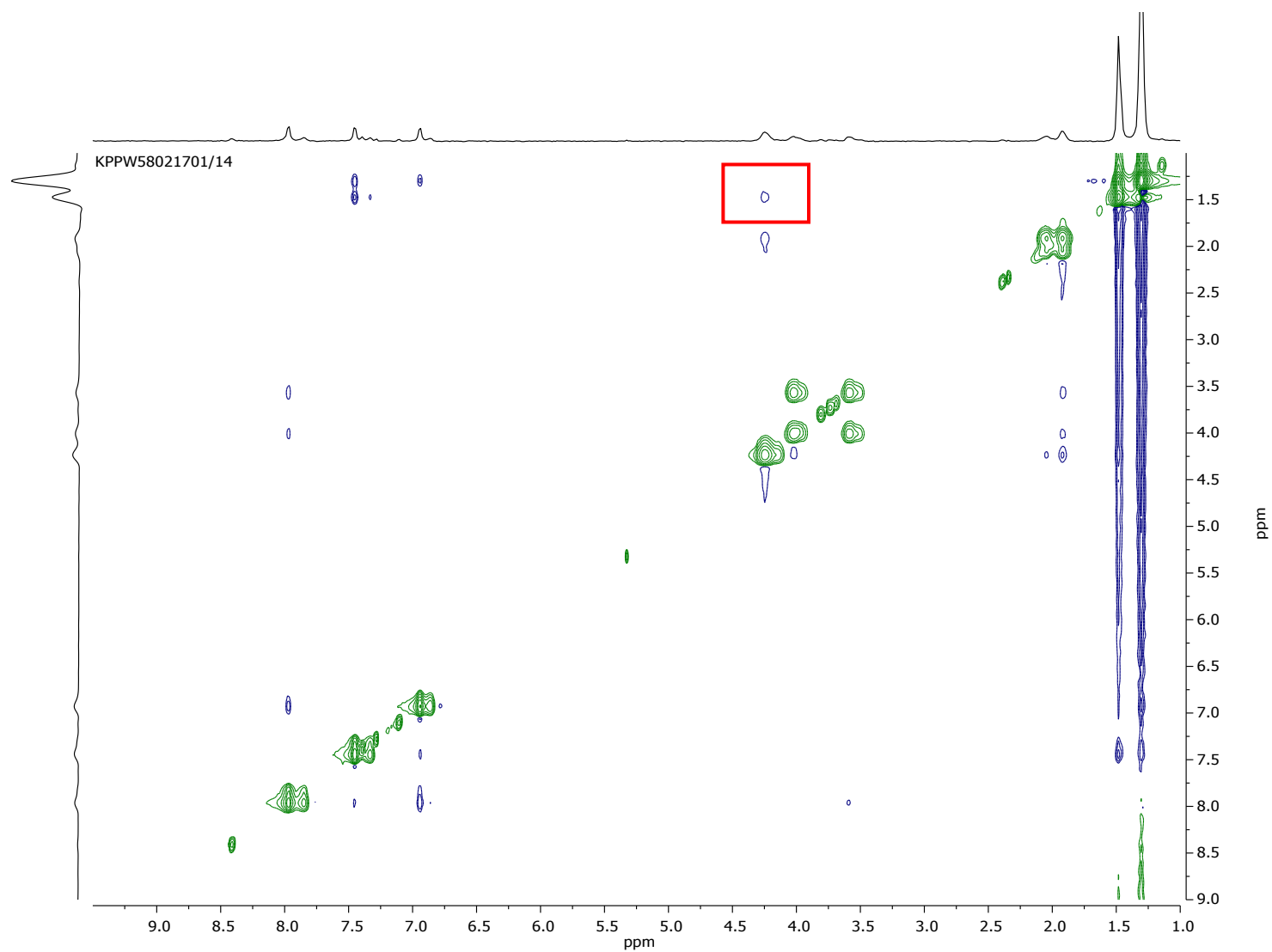


Figure S23 NOESY NMR spectra of **2b** (400 MHz, CDCl₃, 25 °C).

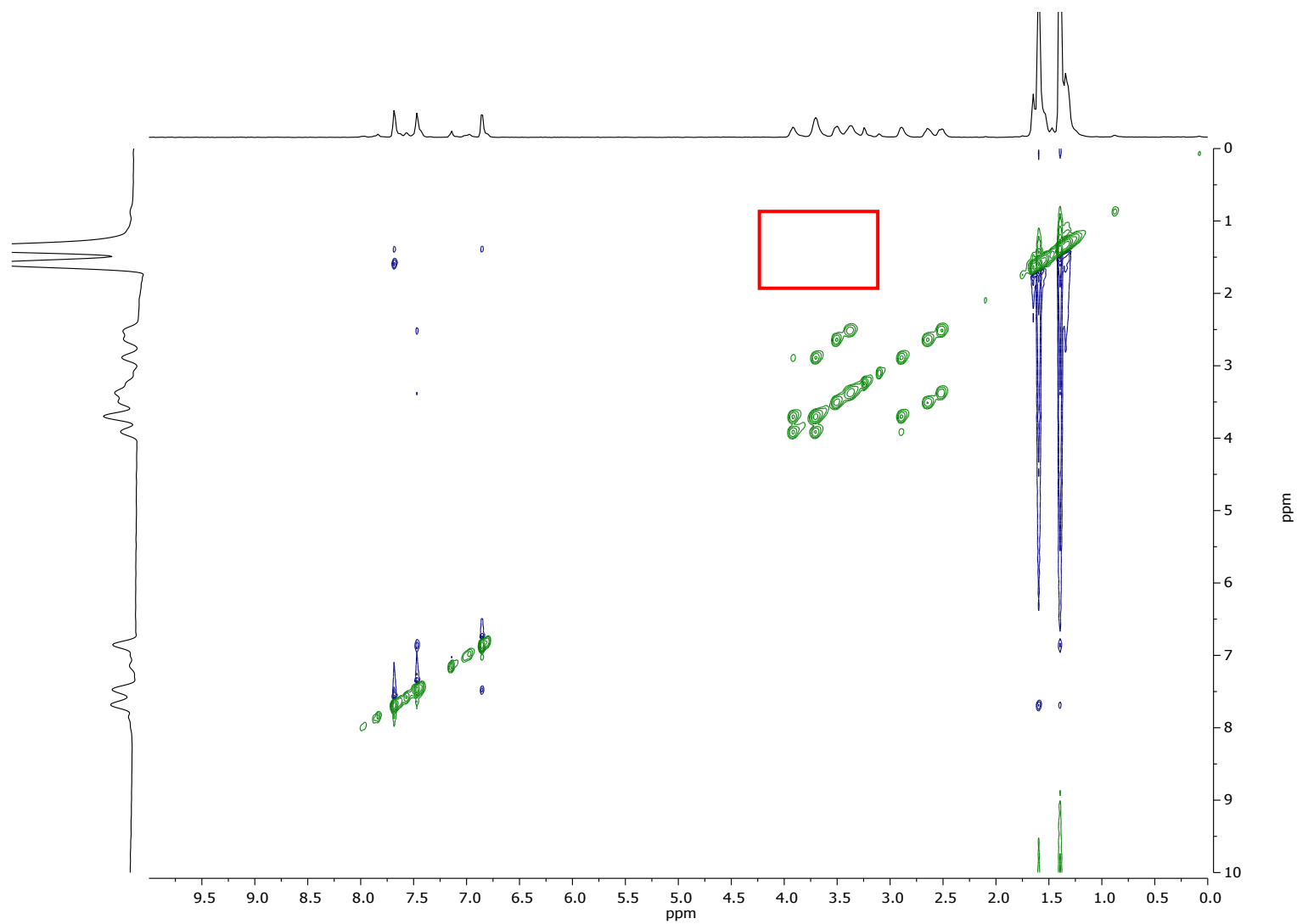


Figure S24 NOESY NMR spectra of **2d** (400 MHz, C₆D₆, 25 °C).