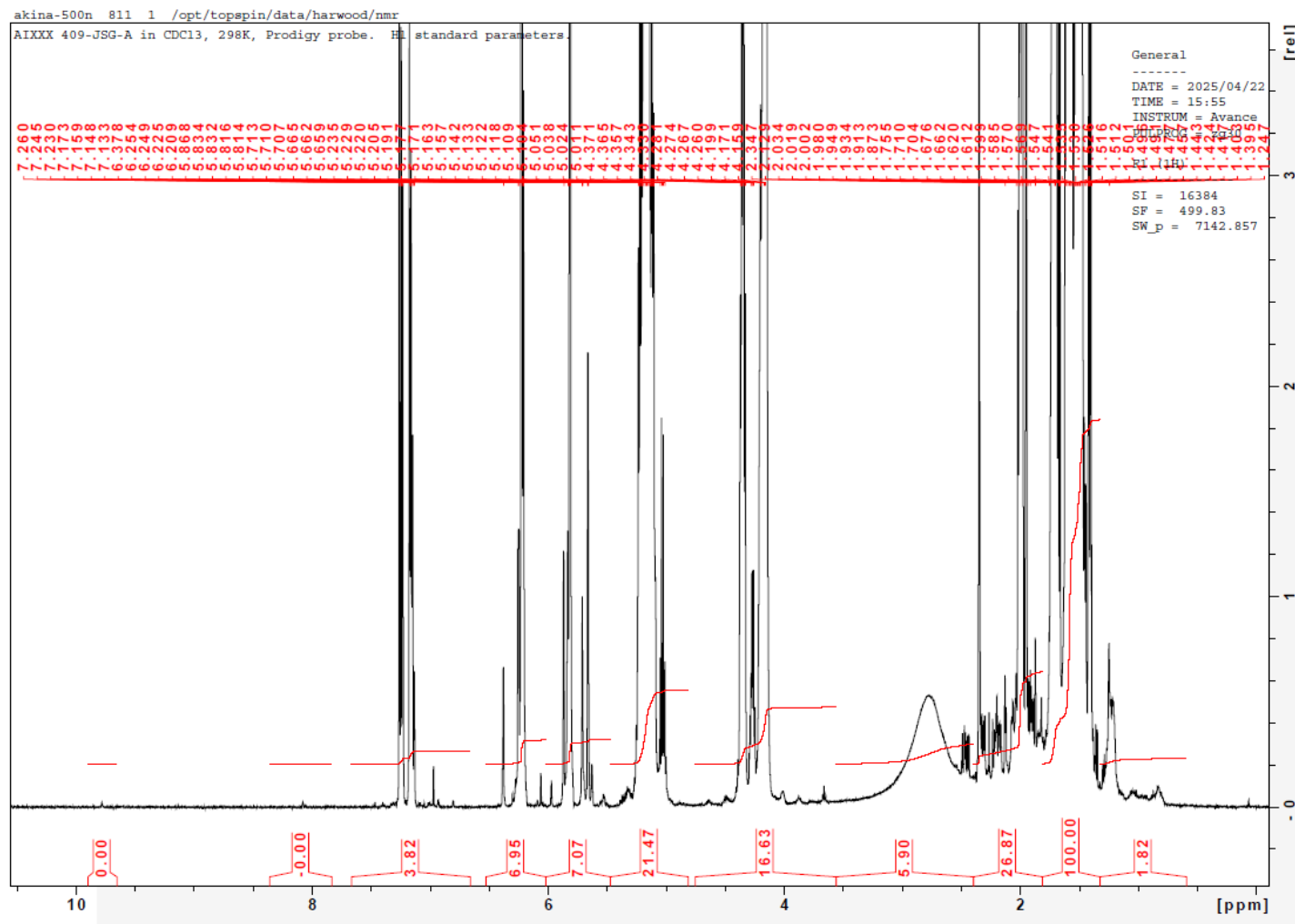


No. AI265 Certificate of Analysis

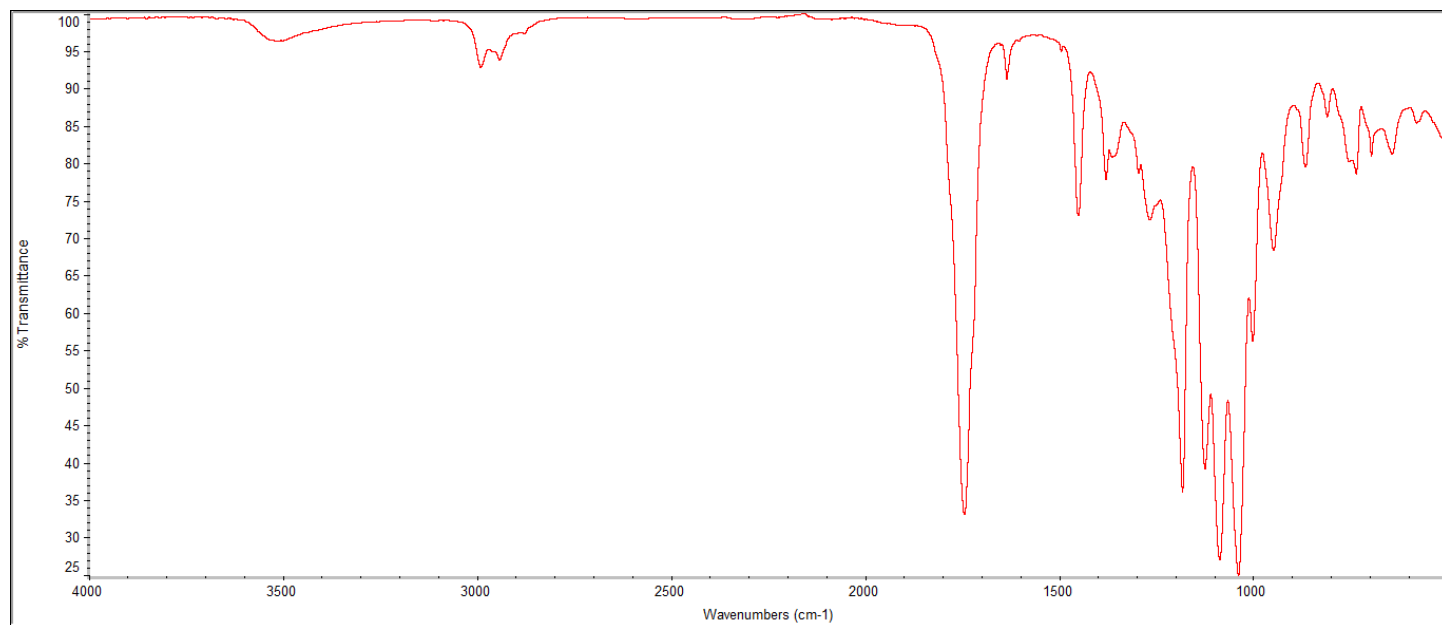
Product Name: Poly(L-Lactide)-dimethacrylate (Mn: ~1,000Da)
(Lot#: 250409JSG-A)

H-NMR



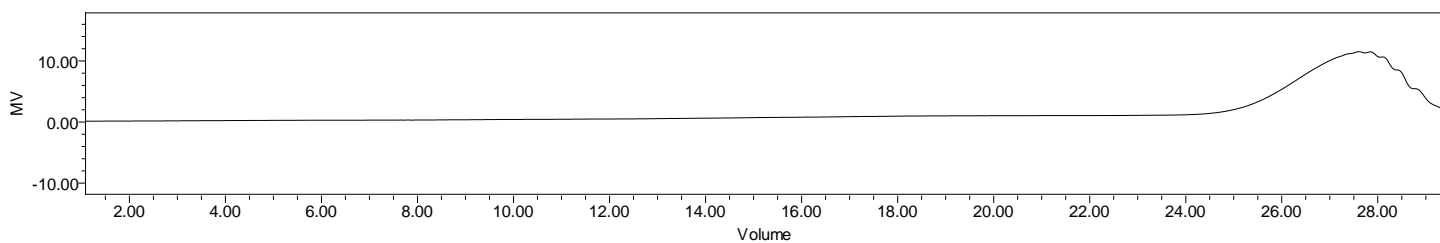
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of PLLA-dimethacrylate copolymer

FTIR



FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (Thermo Scientific) and analyzed in transmission mode.

GPC-ES



Polymer	M _n (from GPC)	M _w (from GPC)	PDI
PLLA-DiMA	1080	1224	1.13

GPC-ES Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

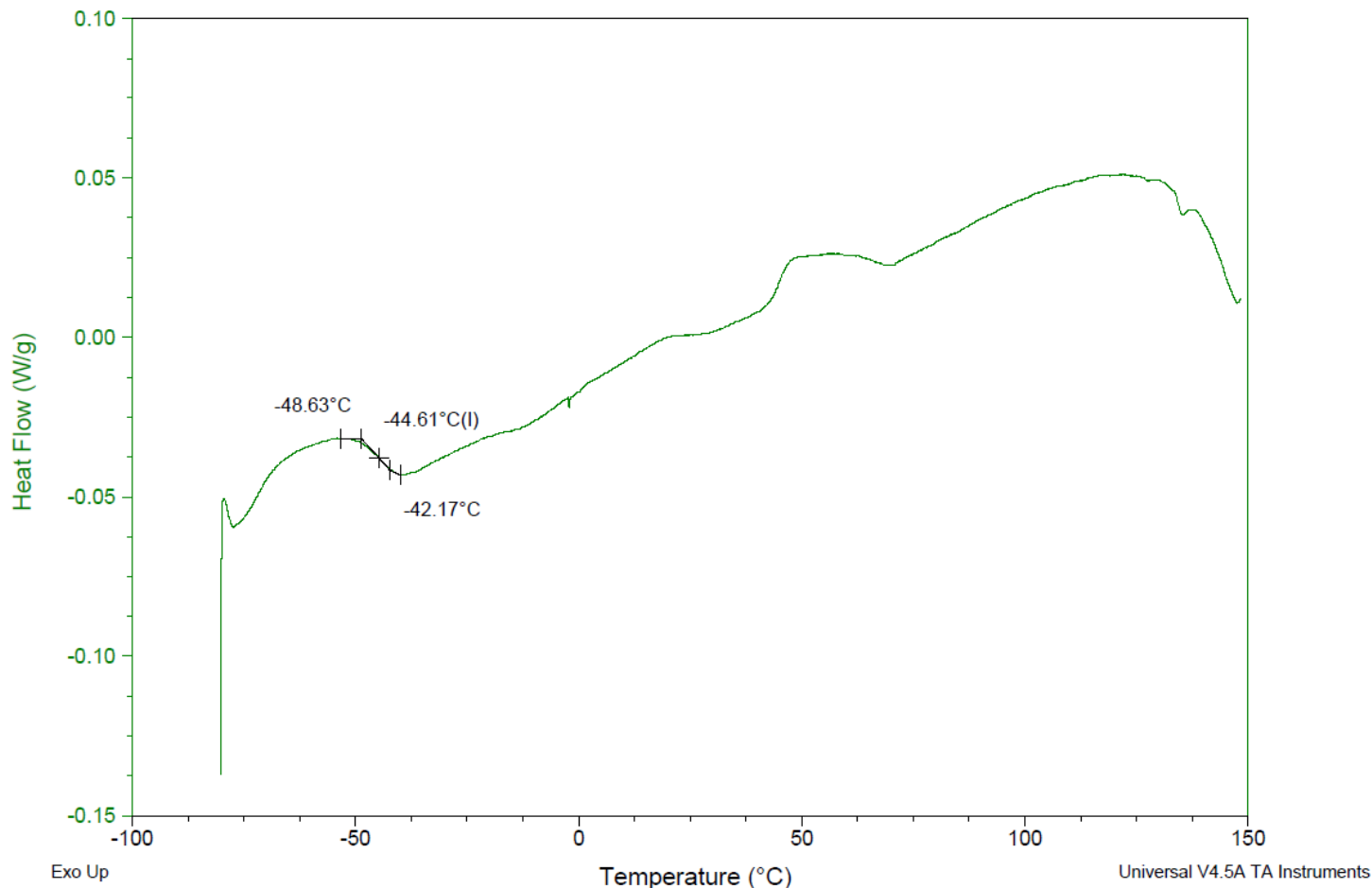
DSC

Sample: AIXXX 250409JSG-A
Size: 5.1000 mg
Method: Modulate-no-eqb

DSC

File: C:\...\COA\AIXXX 250409JSG-A DSC.001

Run Date: 29-Apr-2025 13:43
Instrument: DSC Q2000 V24.11 Build 124

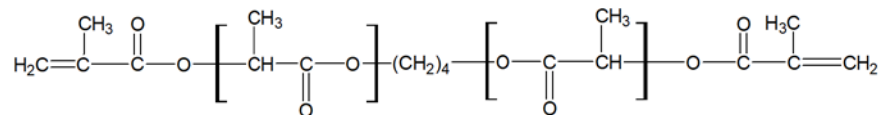


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = -44.61 °C

IV

Inherent Viscosity: 0.017 ± 0.009 dL/g (calculated from kinematic viscosity at 2% w/v Acetone on Rheosense microVISC, n=3) at 25°C.

Structure of copolymers



Approved By:
Amie Tyler
Quality Manager