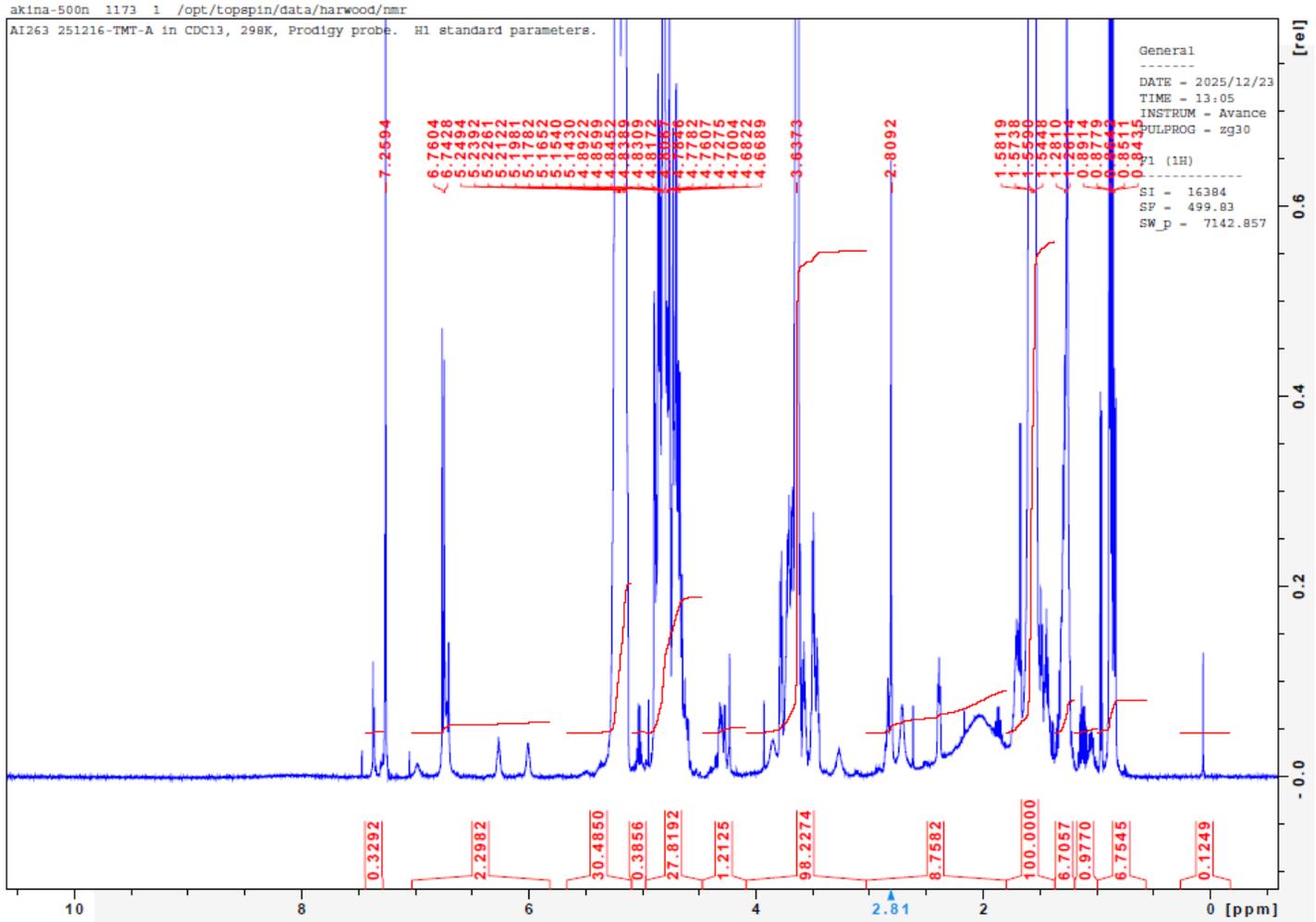


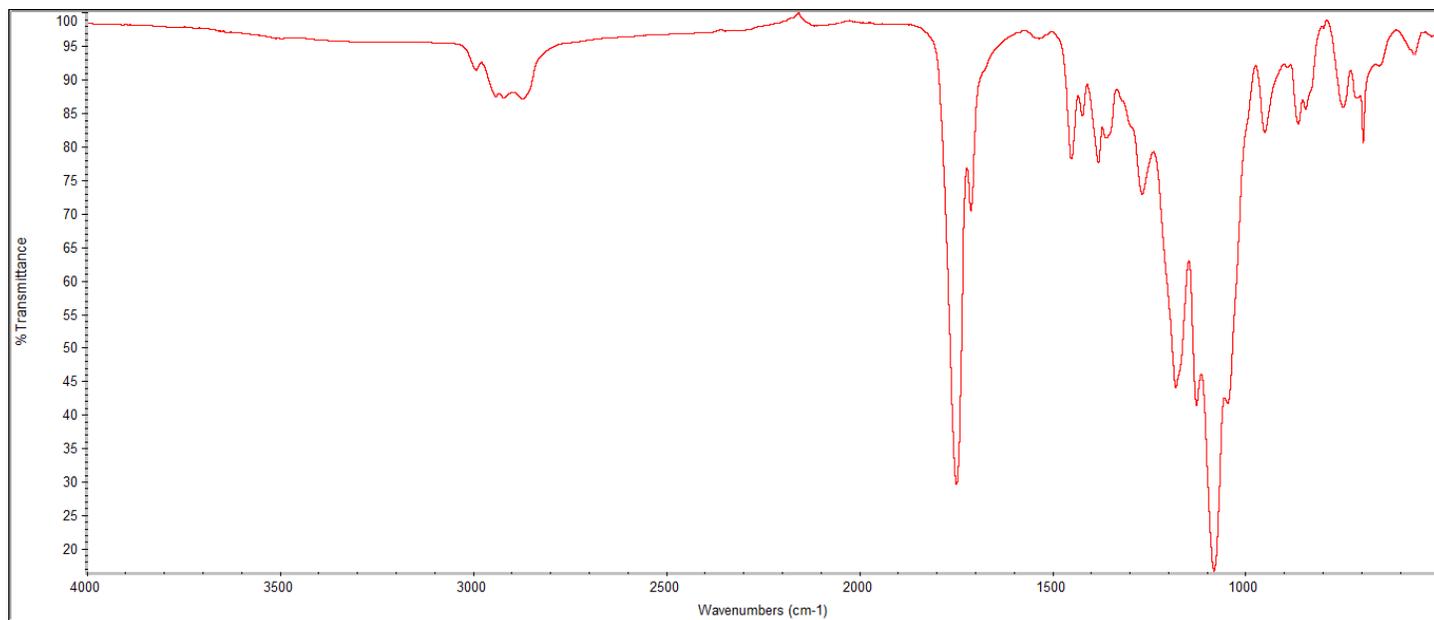
# No. AI263 Certificate of Analysis

Product Name: Maleimide-Poly(ethylene glycol)-*b*-Poly(lactide-co-glycolide) diblock copolymers (70:30 LA:GA, Mw~5,000-20,000 Da) (Lot#: 251216TMT-A)

## H-NMR

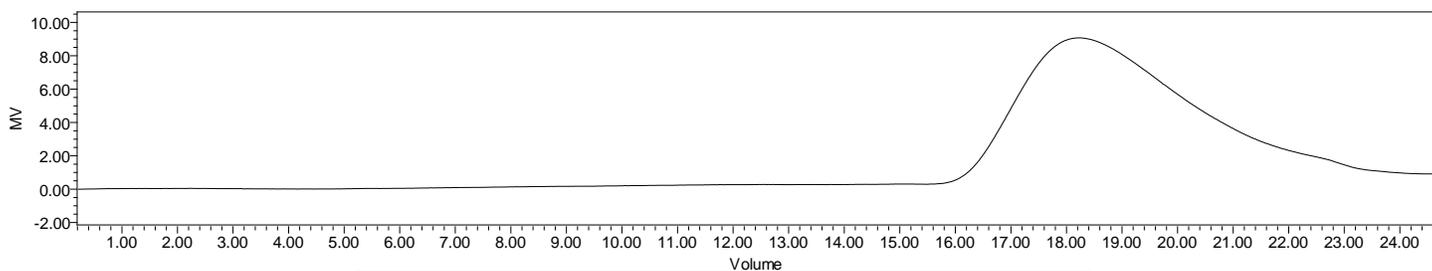


## FTIR



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

## GPC-ES



Polymer	M <sub>n</sub> (from GPC)	M <sub>w</sub> (from GPC)	PDI
PLGA-PEG-Mal	29,709	42,273	1.43
PEG-precursor*	4500*		

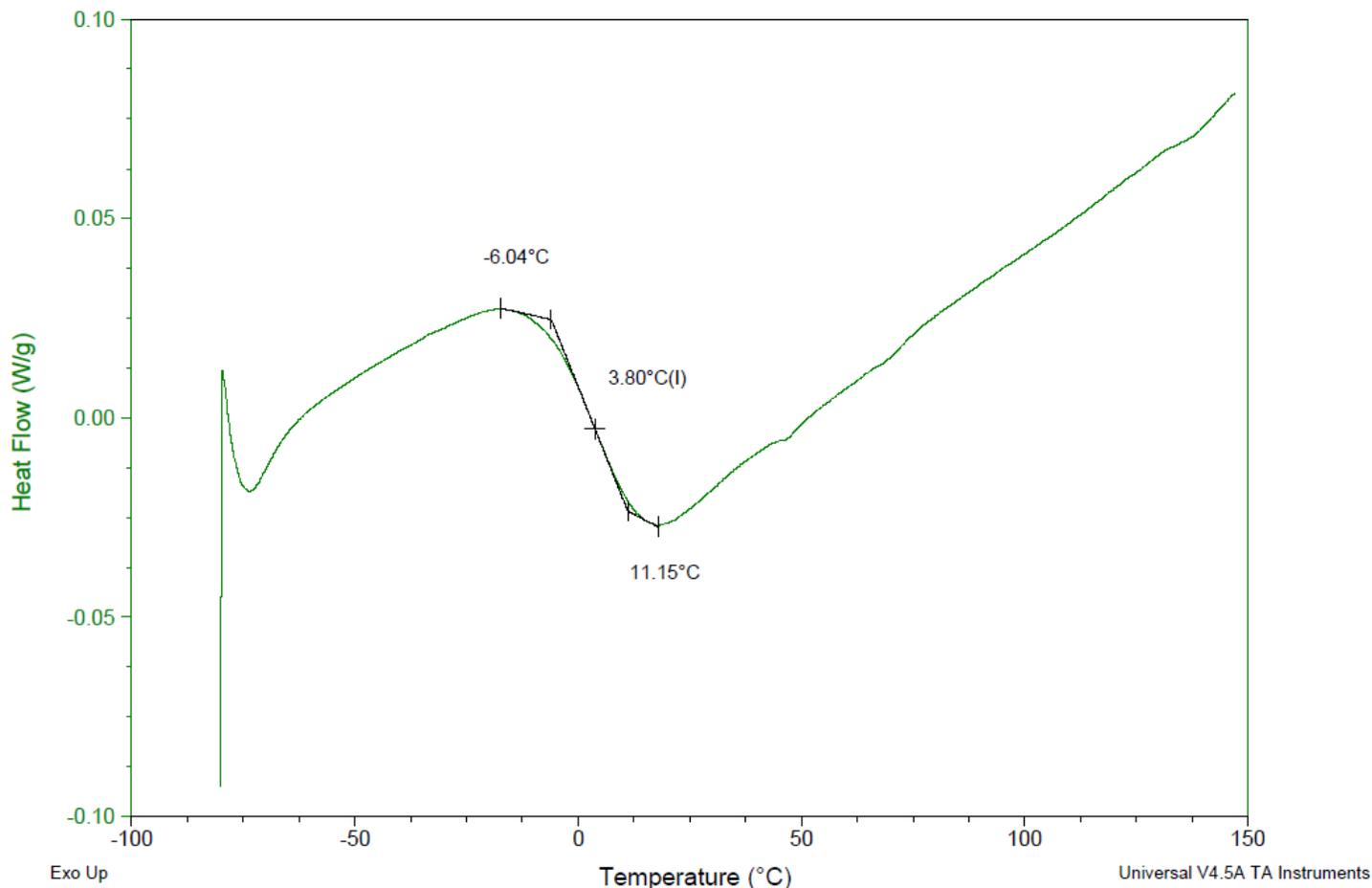
GPC-ES Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards. \*from MFG data (if PEG present)

# DSC

Sample: AI263 251216TMT-A  
Size: 7.1000 mg  
Method: Ramp

DSC

File: C:\...COVA\AI263 251216TMT-A.002  
Run Date: 27-Jan-2026 11:17  
Instrument: DSC Q2000 V24.11 Build 124

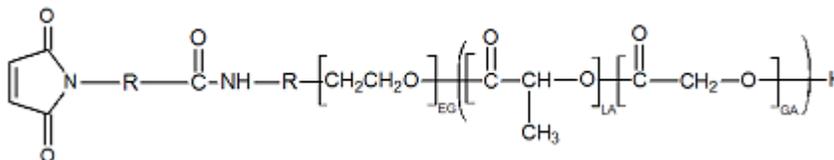


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 3.80 °C

## IV

**Inherent Viscosity:**  $0.274 \pm 0.006$  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