

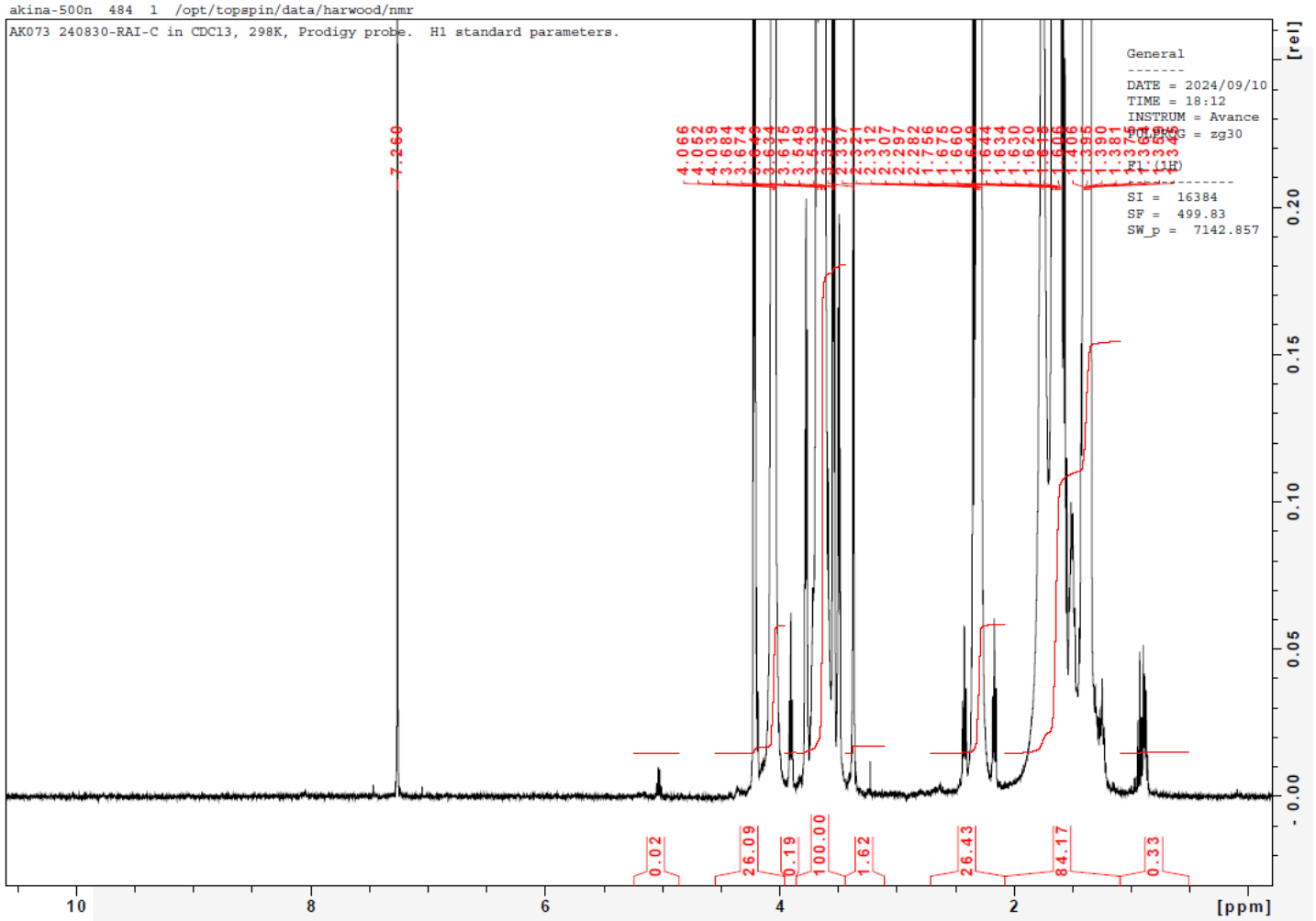
No. AK073

Certificate of Analysis

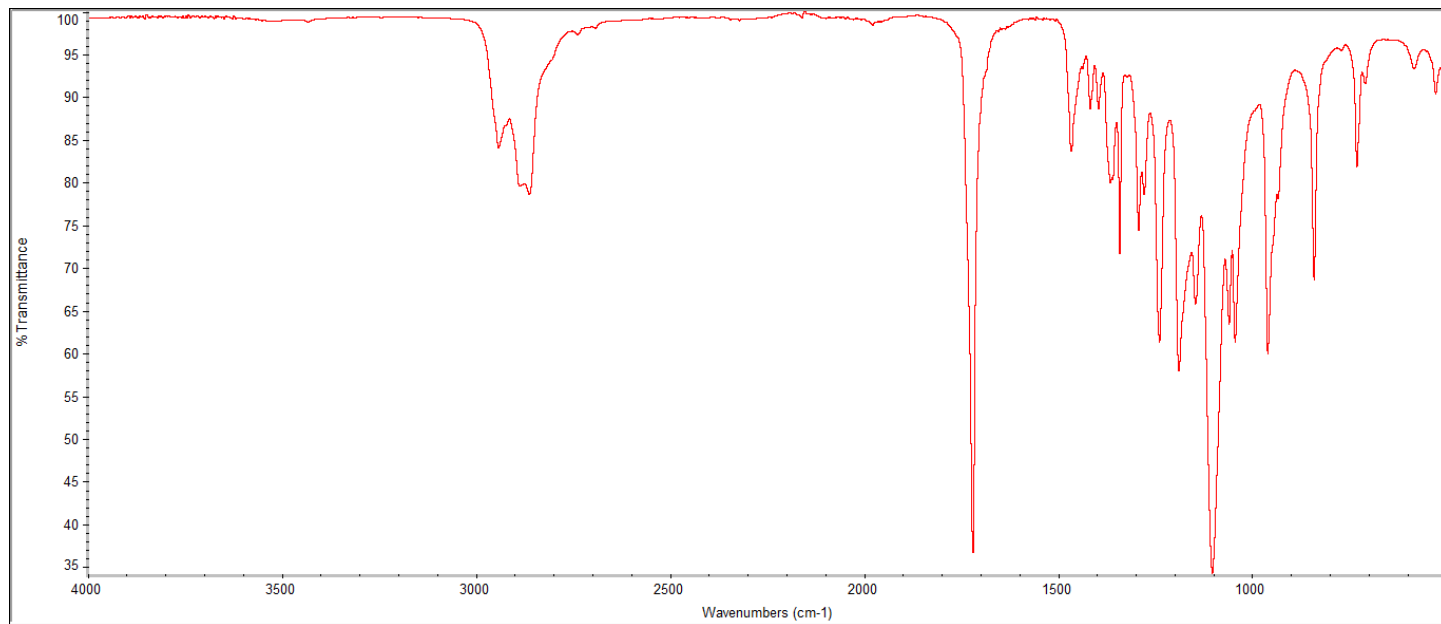


Product Name: Methoxy Poly(ethylene glycol)-*b*-Polycaprolactone Copolymers
(2,000:2,000 Da) (Lot#: 240830RAI-C)

H-NMR

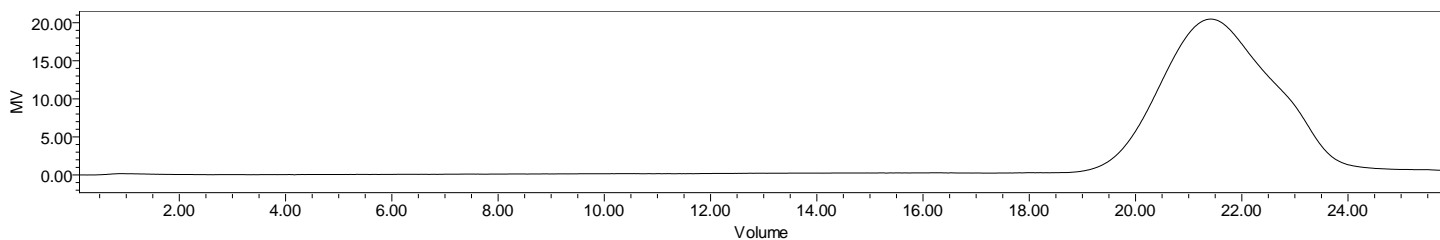


FTIR



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
mPEG-PCL	6277	9772	1.56
PEG-Precursor*	2044*		

*- from MFG data

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.

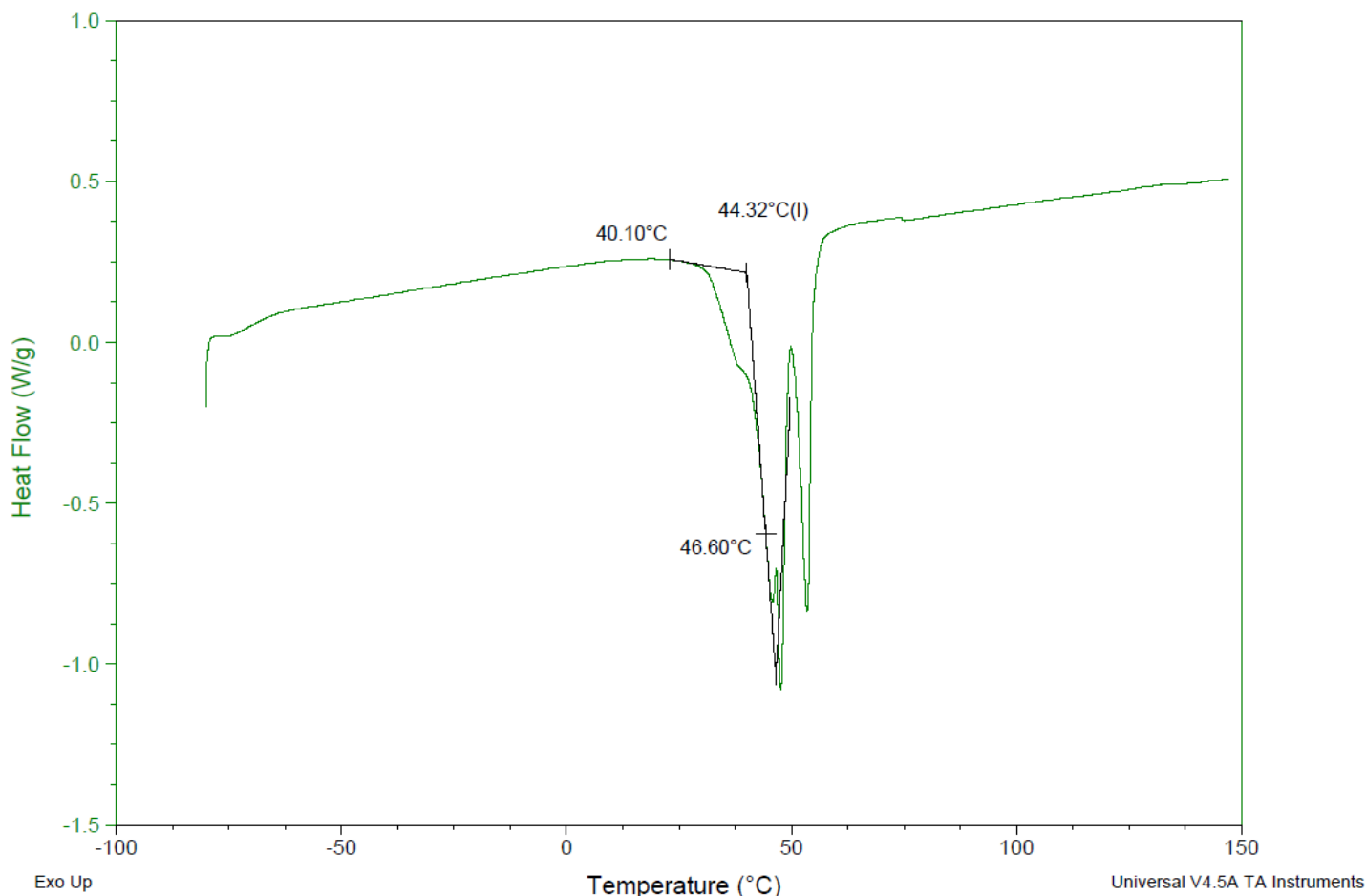
DSC

Sample: AK073 240830RAI-C
Size: 4.5000 mg
Method: Ramp

DSC

File: \\...COA\AK073 240830RAI-C DSC.002

Run Date: 12-Sep-2024 10:38
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 = 44.32 °C

IV

Inherent Viscosity: 0.142 dL/g (calculated from kinematic viscosity at 2% w/v Acetone on Rheosense microVISC, n=3) at 25°C.

Structure of mPEG-PCL copolymers



Approved By:
Amie Tyler
Quality Manager