$k_m = 0.74, D_i = 3.877e - 14, D_x = 6.732e - 6, Mass = 76.068, Inital\ ratio = 0.69, \sigma = 0.324$ 70 <sub>г</sub> - Inital curve - Inital curve Optimized curve Optimized curve 60  $-\ominus$  – Data points → Data points 8 0.8 8.0 50 d Yield / dt [g/s]0.6 0.6 Yield [g] 30 0.4 0.4 20 2 0.2 0.2 10 0 50 100 150 50 100 150 0 Time [min] Time [min] 0 60 0.1 0.150 8 0.2 40 Length [cm] 0.3 6 ပံ 30 0 0.4 0.4 20 2 0.5 0.510 0.6 0.6 0 50 100 150 50 100 150 0 Time [min] Time [min]