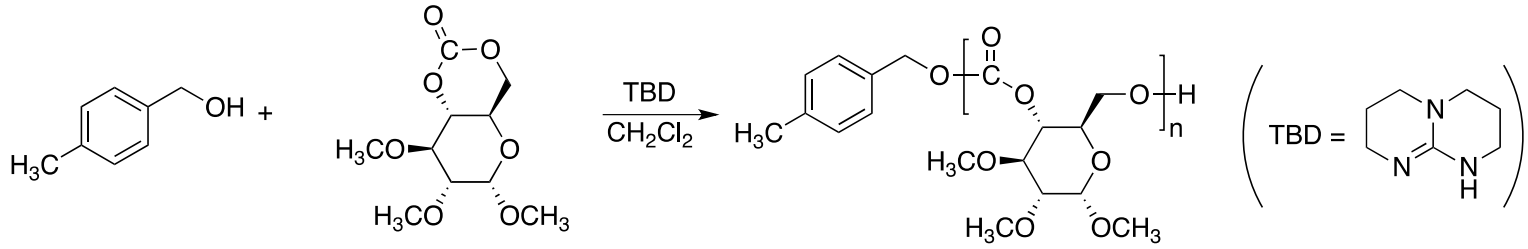
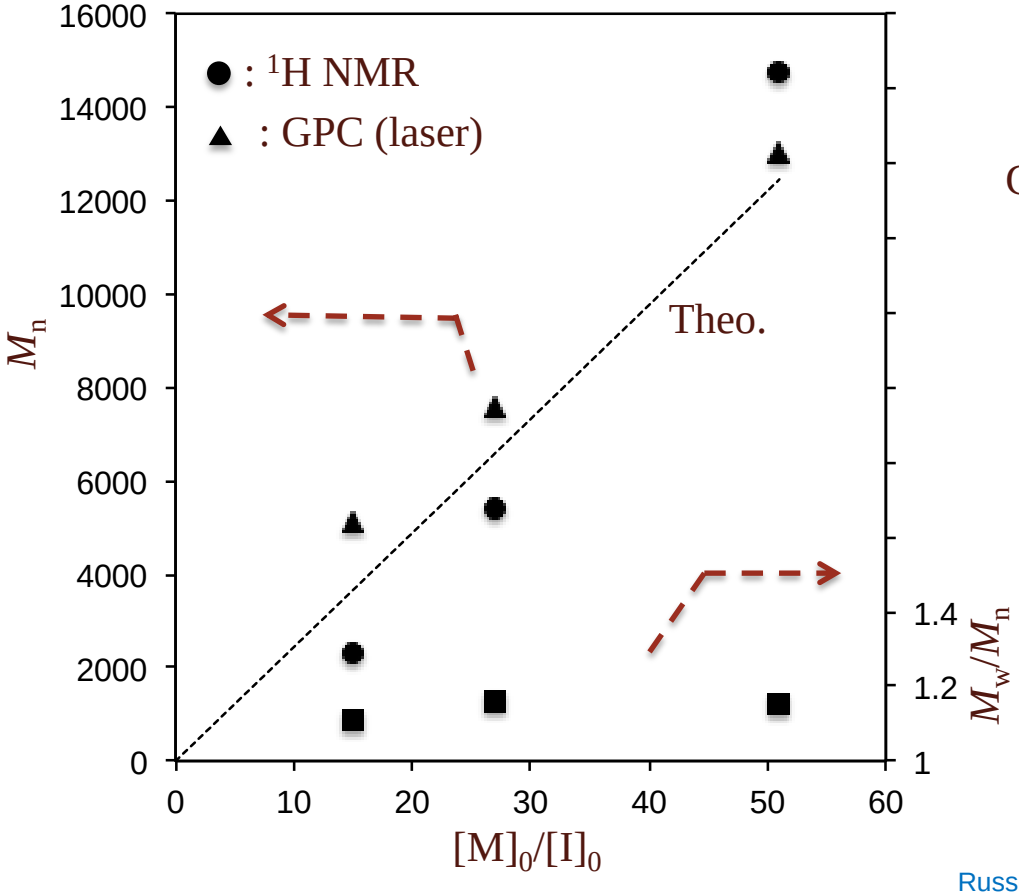
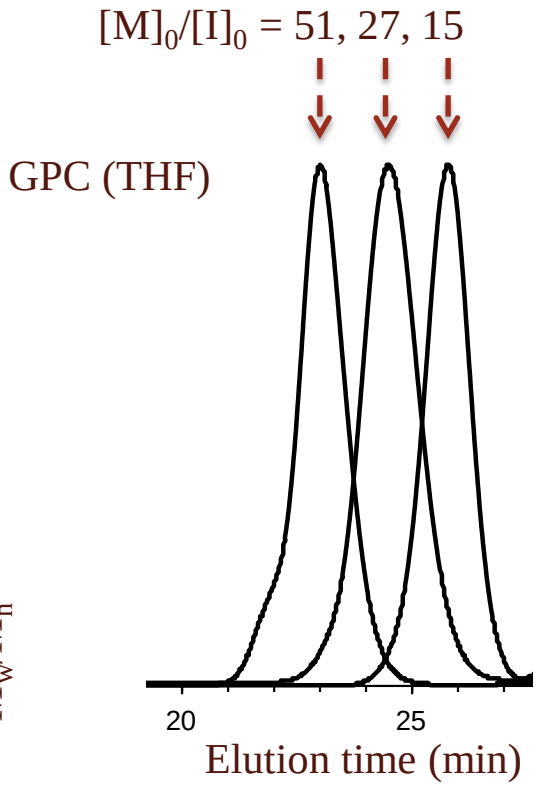
Glucose-based Polycarbonates: GPC analysis of stoichiometry-promoted molecular weight control



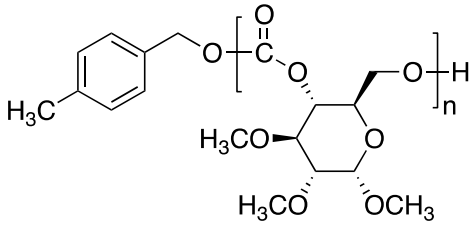




Mikami, K.; Lonnecker, A. T.; Gustafson, T. P.; Zinnel, N. F.; Pai, P.-J.; Russell, D. H.; Wooley, K. L. *J. Am. Chem. Soc.*, **2013**, *135*(18), 6826-6829.

Glucose-based Polycarbonates: MALDI-tof analysis of molecular weight and chain ends

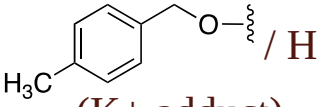
MALDI-TOF MS



repeating unit = 248.2298

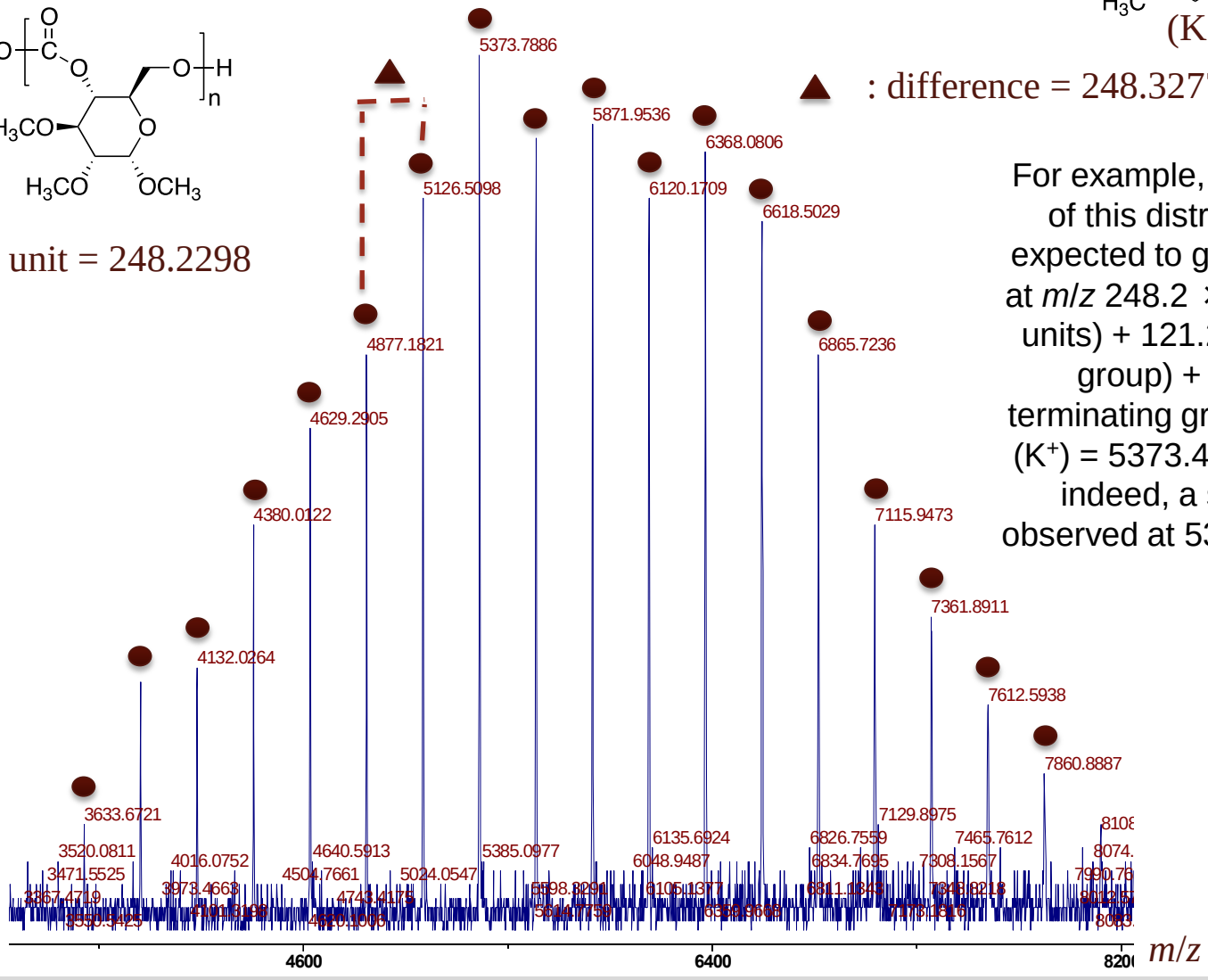
DP_n = 21

● : end group =



(K+ adduct)

▲ : difference = 248.3277



For example, the 21-mer of this distribution is expected to give a signal at *m/z* 248.2 × 21(repeat units) + 121.2 (initiating group) + 1.0 (H, terminating group) + 39.0 (K^+) = 5373.4 g/mol, and indeed, a signal is observed at 5373.8 g/mol.