1.- In 1979, Deslongchamps and his team of students at University of Sherbrooke in Canada disclosed a beautiful synthesis of the poly-oxygenated diterpene, (+)-ryanodol. An important transformation that established a mono-protected ceto-quinone intermediate is illustrated. Please provide a mechanism for this transformation.

2.- The following transformation is a key step in Boeckman’s synthesis of laurenyn. Provide a mechanism.