The high-power 295 GHz gyrotron being developed at University of Fukui. It is intended for use in collective Thomson scattering diagnostic in LHD. Figure (a) shows a fabricated gyrotron mounted on a 12 T superconducting magnet. Figures (b) and (c) show the calculated and measured radiation patterns, respectively. The measured pattern is similar to the calculated one, and is confirmed to have highly Gaussian like distribution both in horizontal and vertical directions. (Yuusuke YAMAGUCHI et al., Plasma and Fusion Research Vol.8, 1205165 (2013) http://www.jspfor.jp/PFR/)