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Electron Cyclotron Range of Frequency (ECRF) electric field in overdense plasma was measured by using small (5 mm) probing antenna with injection of 1-2.1 GHz electromagnetic wave from outside of plasma. We obtained the signal with two characteristics of Electron Bernstein Wave (EBW), i.e. short wavelength and backward wave. (Eiichi YATSUKA *et al.*, Plasma and Fusion Research Vol.3, 013 (2008). <http://www.jspf.or.jp/PFR/>)