

Abstract In this work we have described calculation of effective ionic charge, Z_{eff} through anomaly factor (α) with liquid lithium limiter and graphite limiter on HT-7 Tokamak. This theoretical calculation of effective ionic charge, Z_{eff} with liquid lithium limiter on HT-7 Tokamak, is lower than as compared with graphite limiter. It is also estimated through 7-channel visible bremsstrahlung and compare with theoretical.