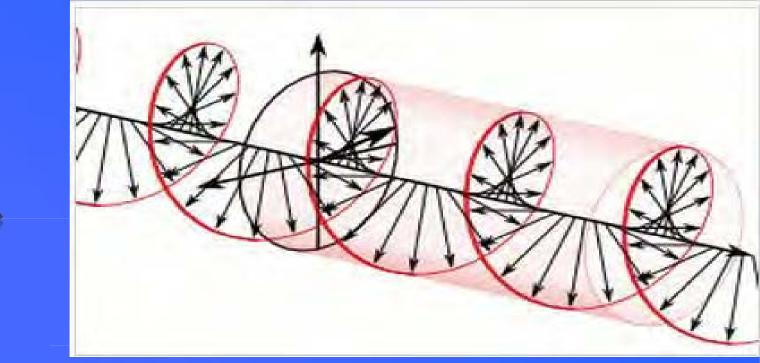


*Circularly Polarized Antenna



Student: NG KA KI Programme: BEngECE

Supervisor: Prof. Leung Kwok Wa

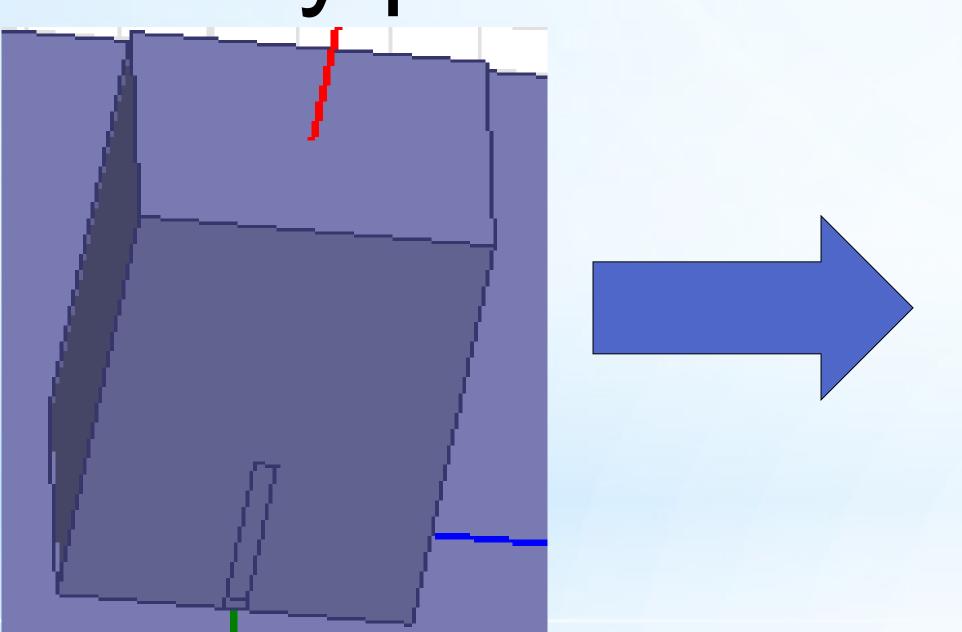
Objective

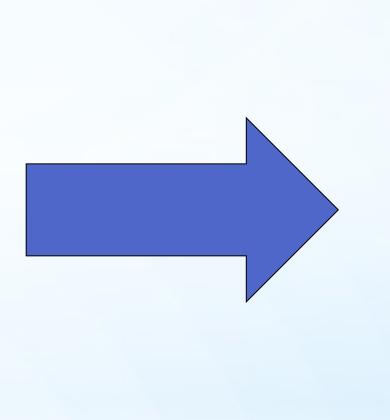
 To design a dual mode circularly polarized Dielectric resonator antenna (DRA)

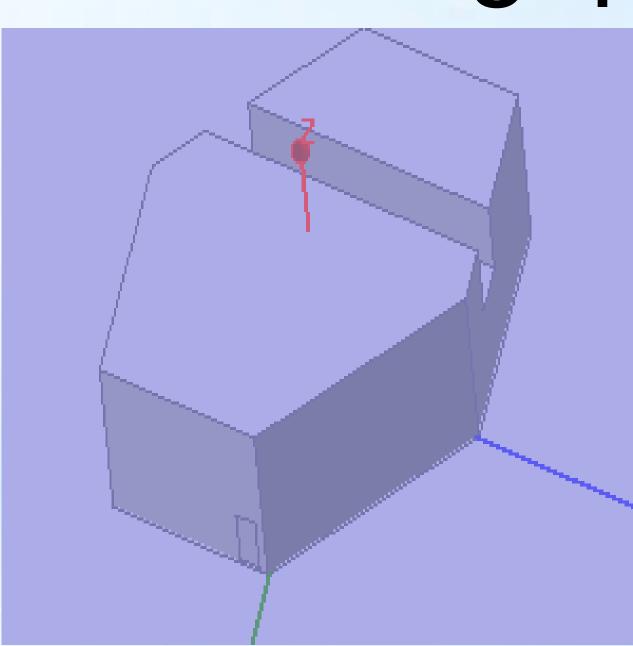
ethodology

Methodology

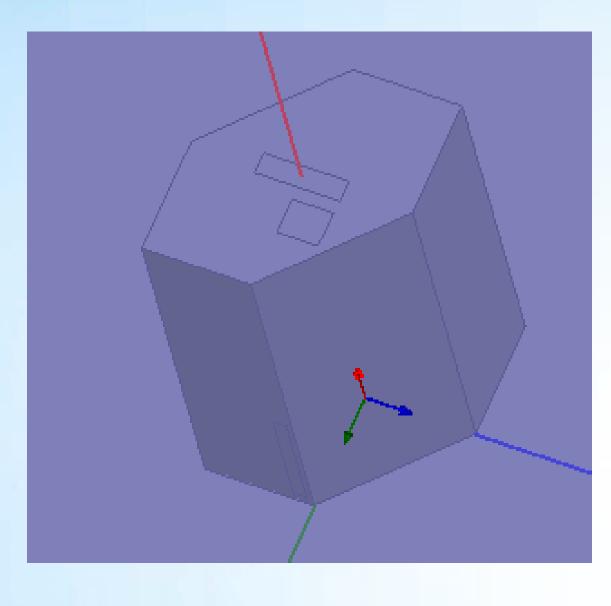
Linearly polarized Cut two diagonal corners Add the air gap

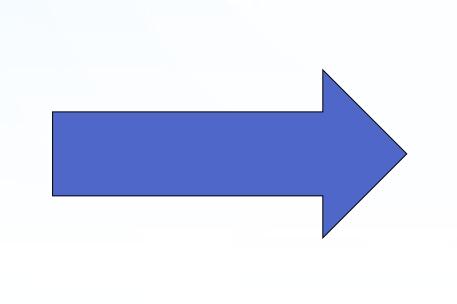




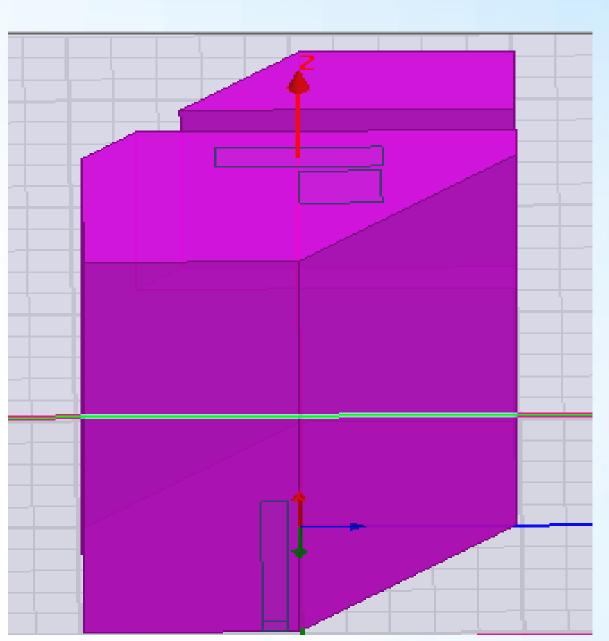


Add the metal strip



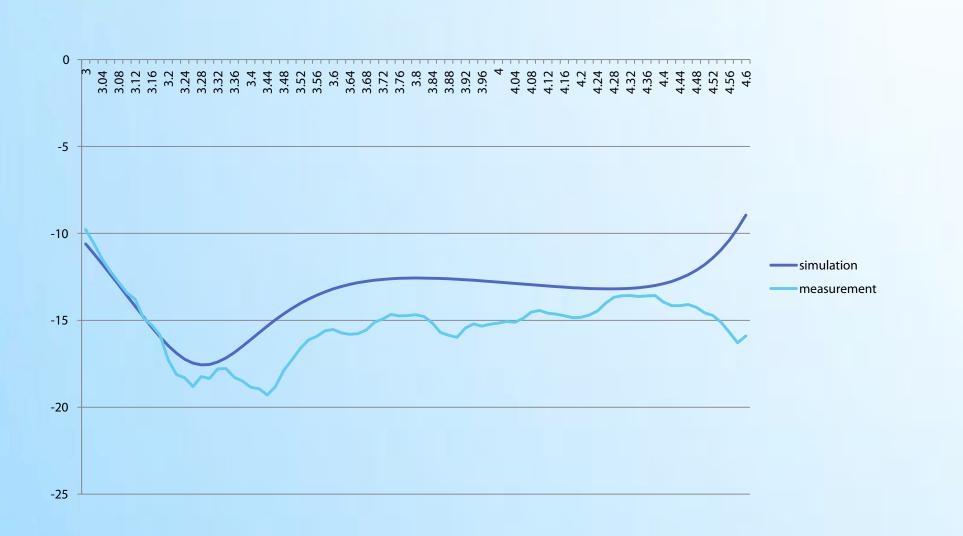


Final design

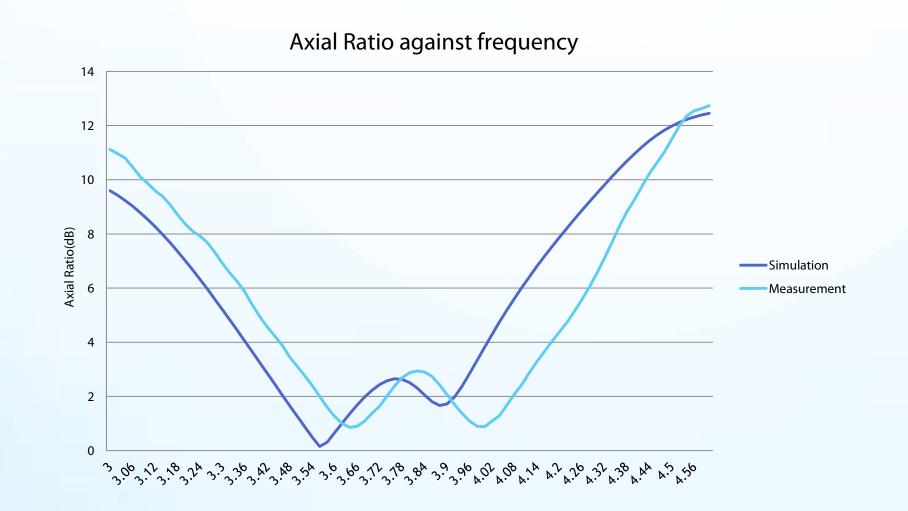


Results

Return loss



Axial Ratio



TE111 mode and TE113 mode Return loss bandwidth=46% Axial Ratio Bandwidth =16.5% Gain=6.5dBi Efficiency =90%

Application: Satellite Communication