The feed using in Xingnong experiment：

fed by coaxil cable

S11：

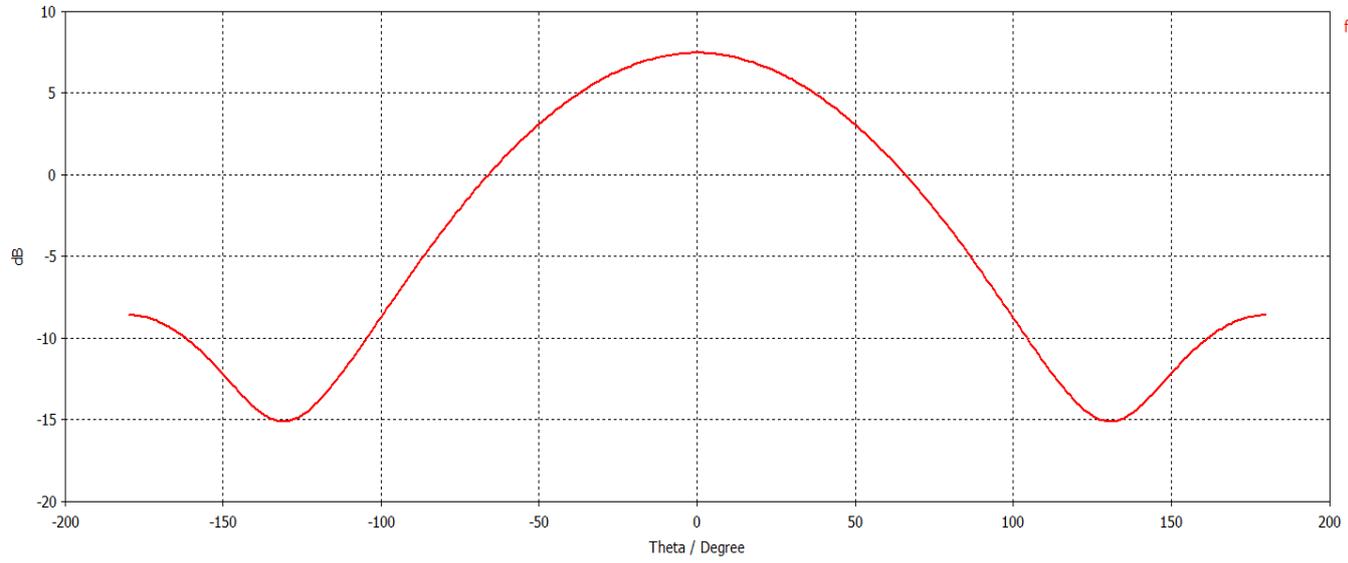S-Parameter Magnitude in dB
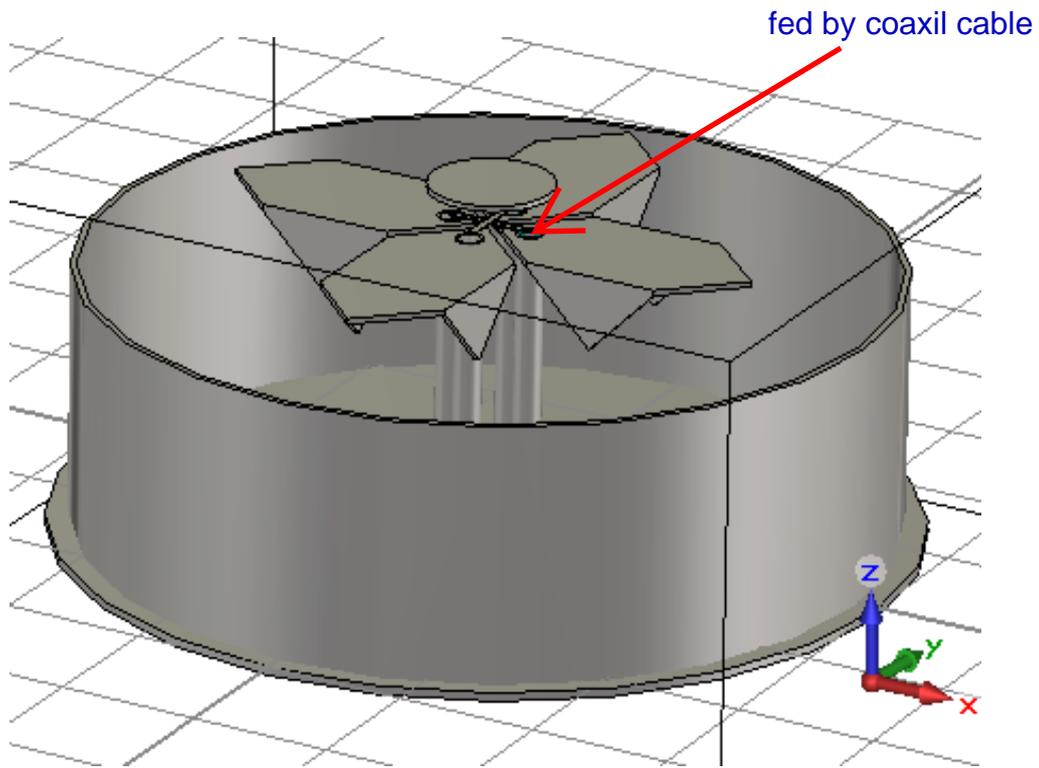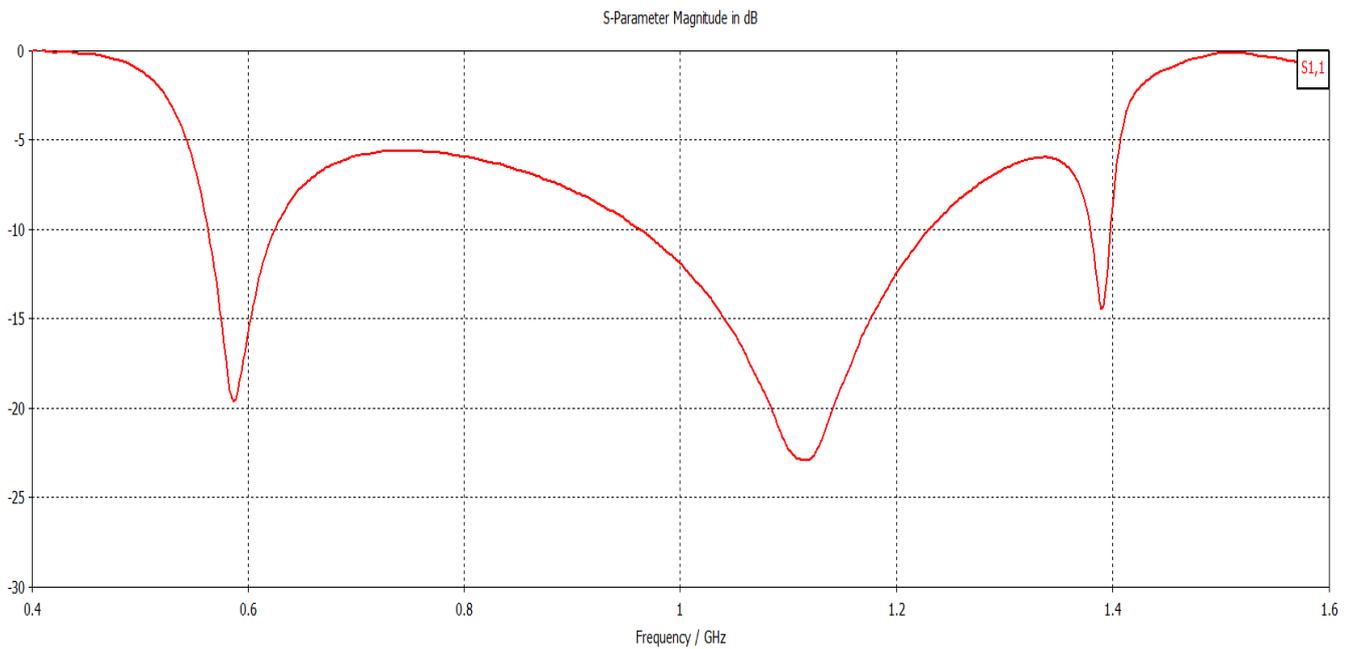
f=600MHz

E-Plane

Farfield Gain Abs (Phi=0)

farfield (f=0.6) [1]

dB

Theta / Degree

Frequency = 0.6
Main lobe magnitude =   7.4 dB
Main lobe direction = 180.0 deg.
Angular width (3 dB) =   82.5 deg.
Side lobe level = -16.0 dB

H-Plane

Farfield Gain Abs (Phi=90)

farfield (f=0.6) [1]

dB

Theta / Degree
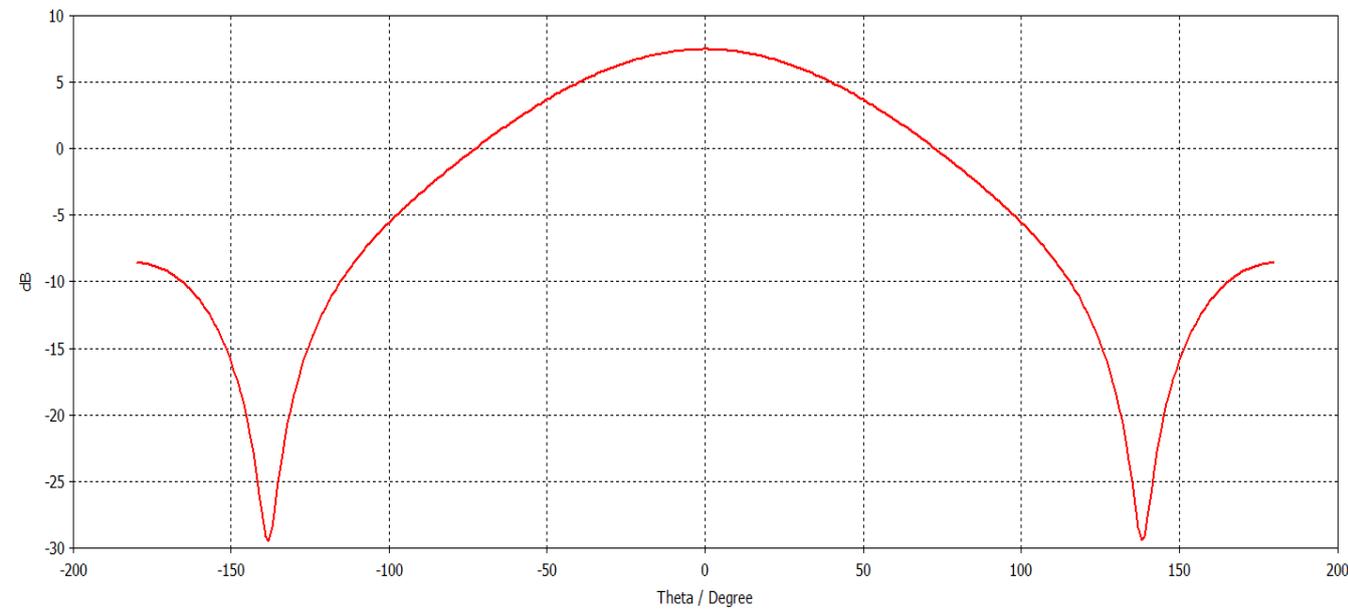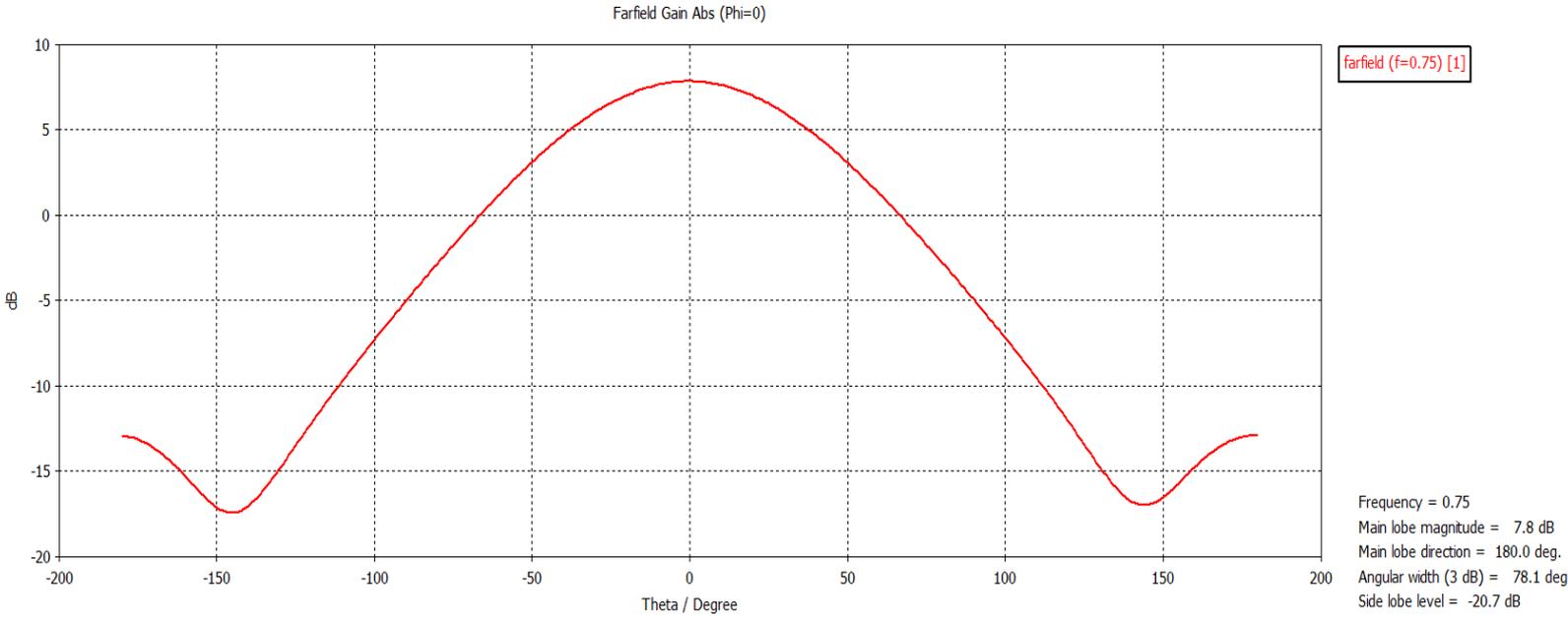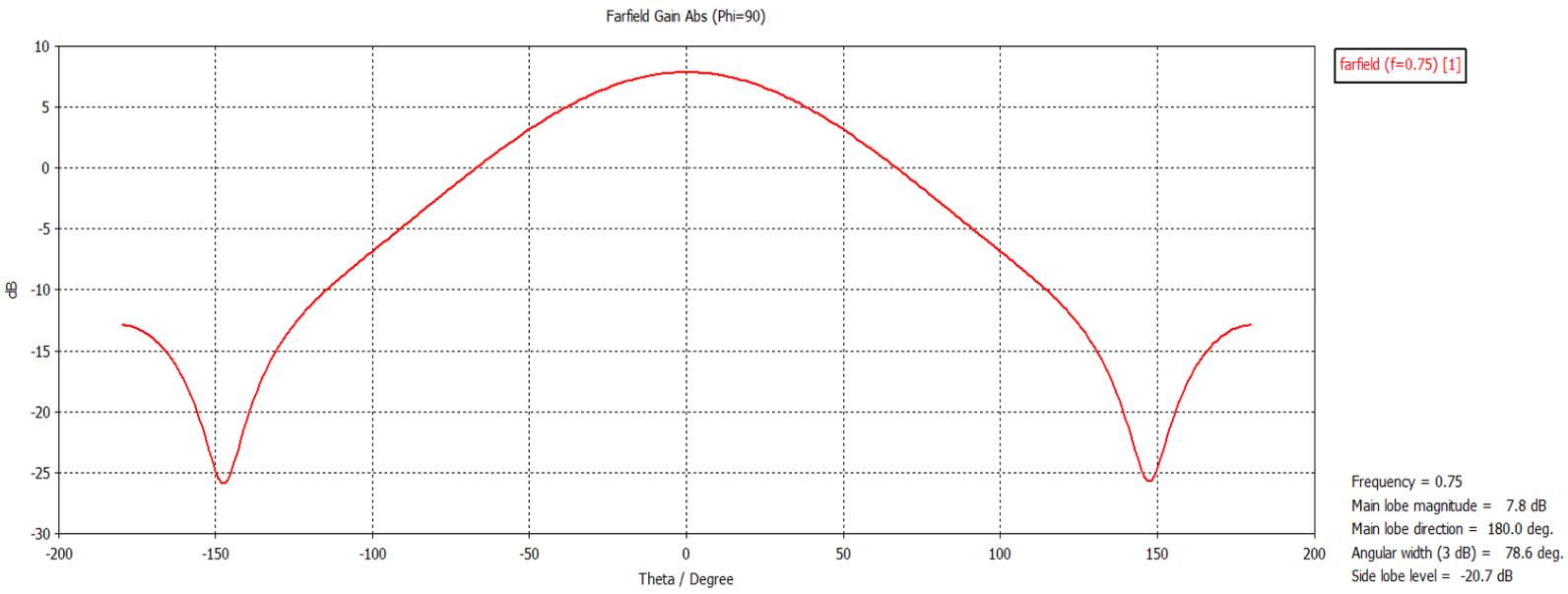
Frequency = 0.6
Main lobe magnitude =   7.4 dB
Main lobe direction = 180.0 deg.
Angular width (3 dB) =   88.7 deg.
Side lobe level = -16.0 dB
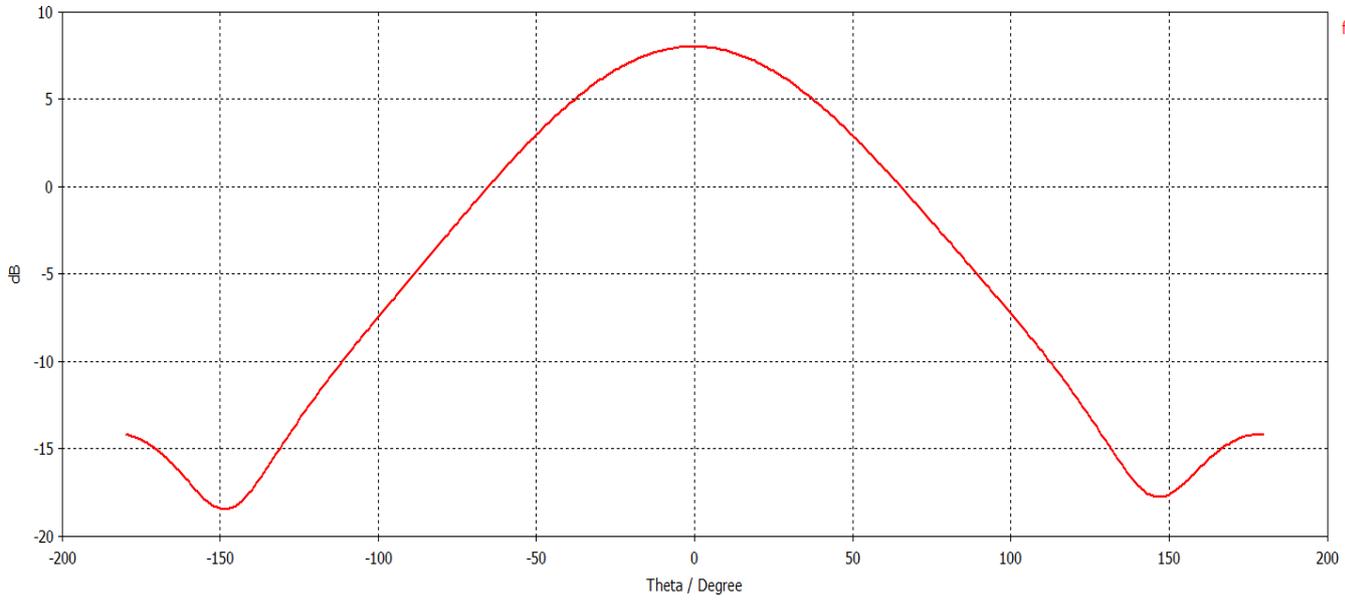
f=750MHz

E-Plane

Farfield Gain Abs (Phi=0)

farfield (f=0.75) [1]

dB

Theta / Degree

Frequency = 0.75
Main lobe magnitude =   7.8 dB
Main lobe direction = 180.0 deg.
Angular width (3 dB) =   78.1 deg.
Side lobe level = -20.7 dB

H-Plane

Farfield Gain Abs (Phi=90)

farfield (f=0.75) [1]

dB

Theta / Degree

Frequency = 0.75
Main lobe magnitude =   7.8 dB
Main lobe direction = 180.0 deg.
Angular width (3 dB) =   78.6 deg.
Side lobe level = -20.7 dB

f=800MHz

Farfield Gain Abs (Phi=0)

farfield (f=0.8) [1]

dB

Theta / Degree
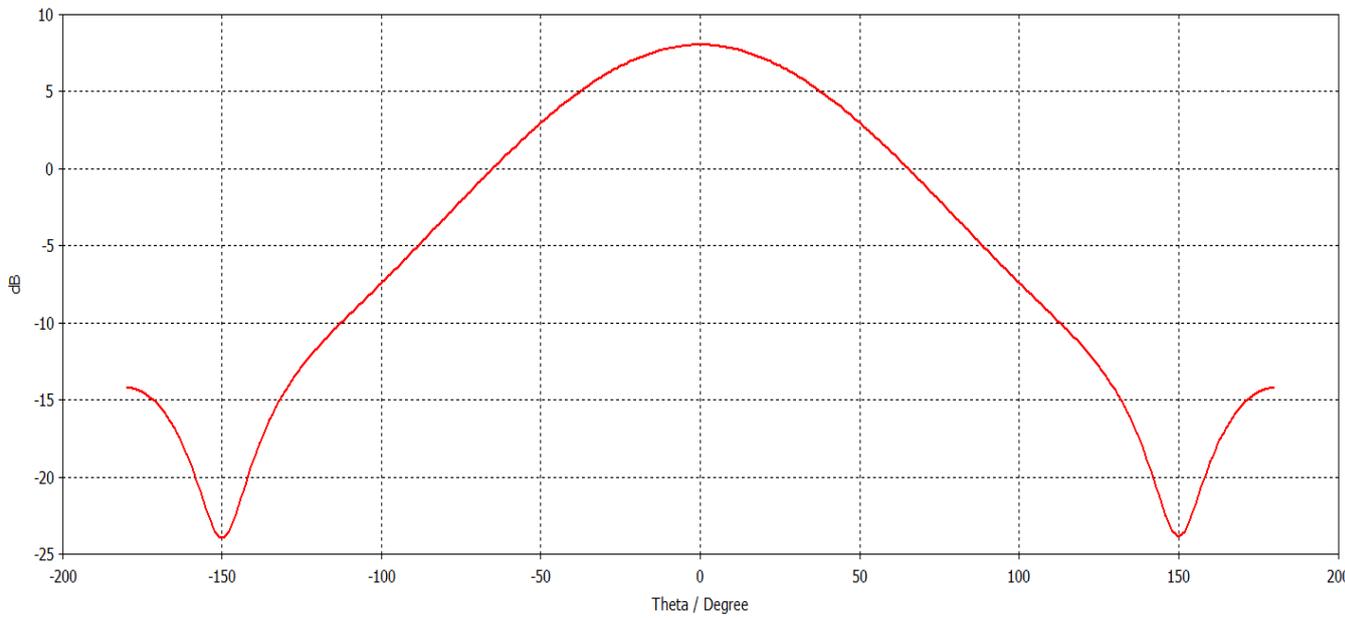
Frequency = 0.8
Main lobe magnitude = 8.0 dB
Main lobe direction = 180.0 deg.
Angular width (3 dB) = 75.1 deg.
Side lobe level = -22.2 dB

H-Plane

Farfield Gain Abs (Phi=90)

farfield (f=0.8) [1]

dB

Theta / Degree

Frequency = 0.8
Main lobe magnitude = 8.0 dB
Main lobe direction = 180.0 deg.
Angular width (3 dB) = 75.4 deg.
Side lobe level = -22.2 dB