

2.4GHz Printed Antenna Test Report

Brand : JACFIT

Model : JM101

Date : 2015-09-04

Lab : RB302



Contents

Micro Antenna for 2.4GHz

Simulation Data

- S parameter
- Efficiency : 55.9~60.3 %
- Gain : 1.75~2.1 dBi

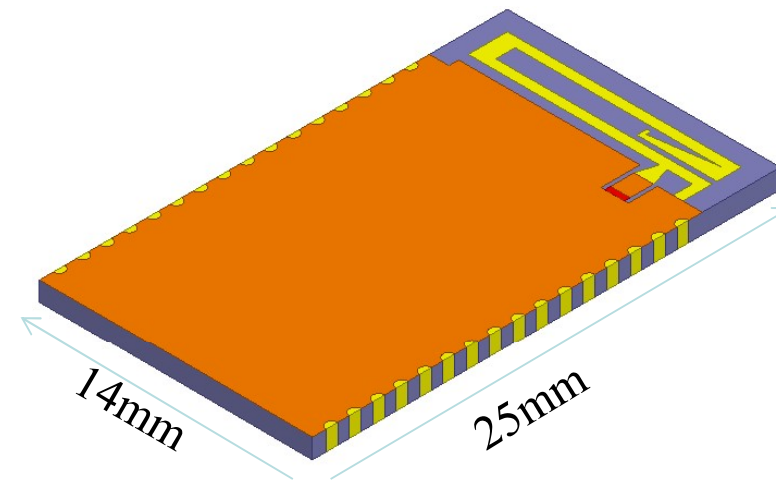
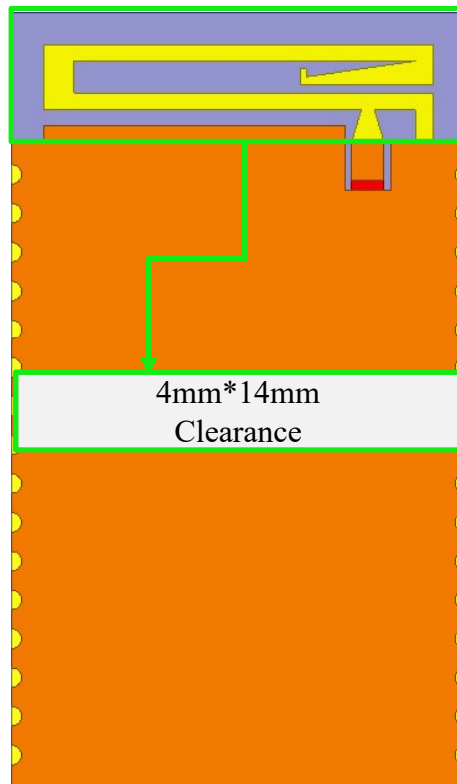
Test Result

- S parameter
- Efficiency : 44.8~58.7 %
- Gain : -0.65~0.85 dBi



Simulation Material

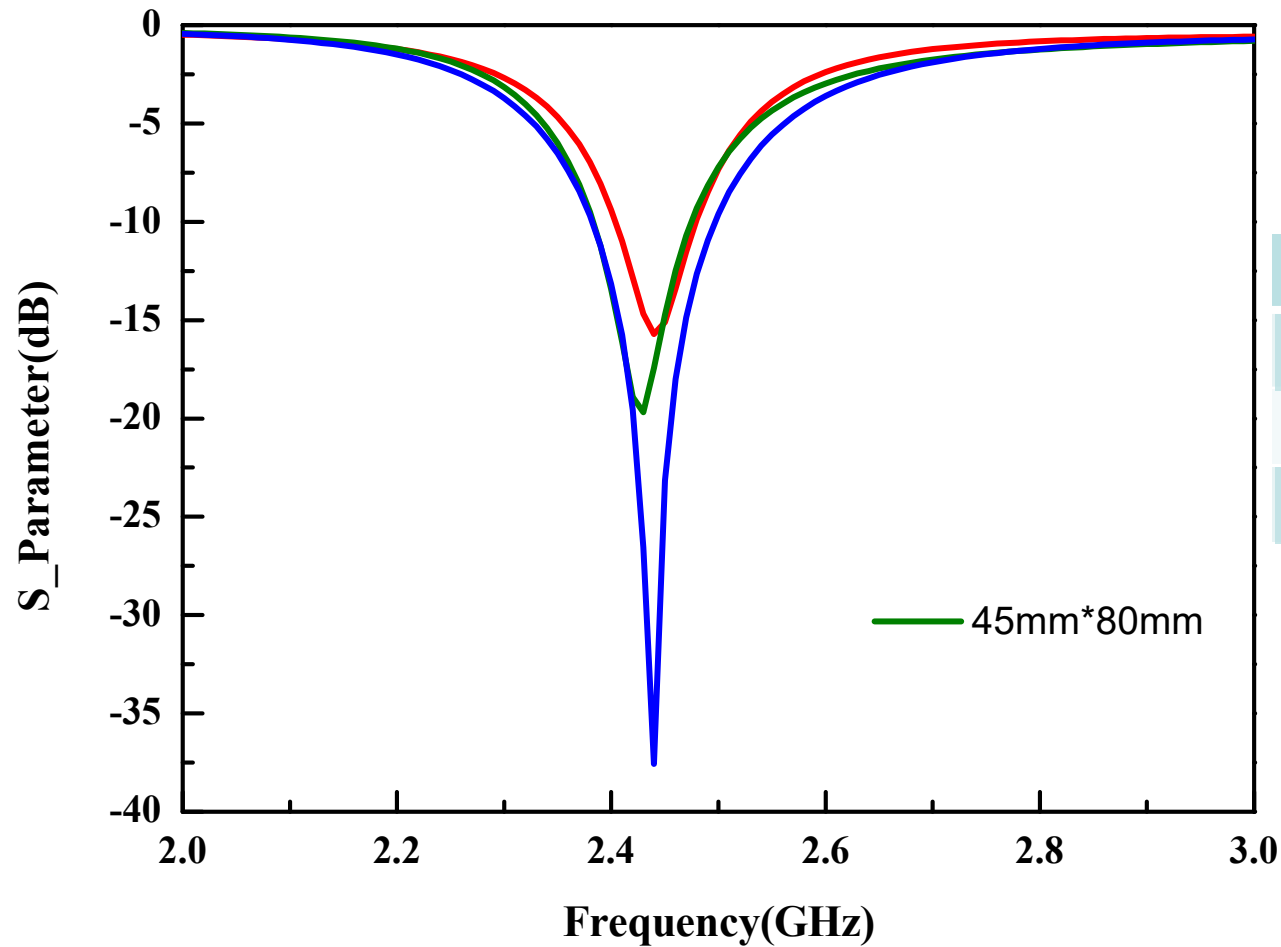
2.4GHz PCB Antenna



Material : FR4
Thickness : 1 mm
Size : 14mm * 25mm
Clearance : 4mm * 14mm



S_Parameter

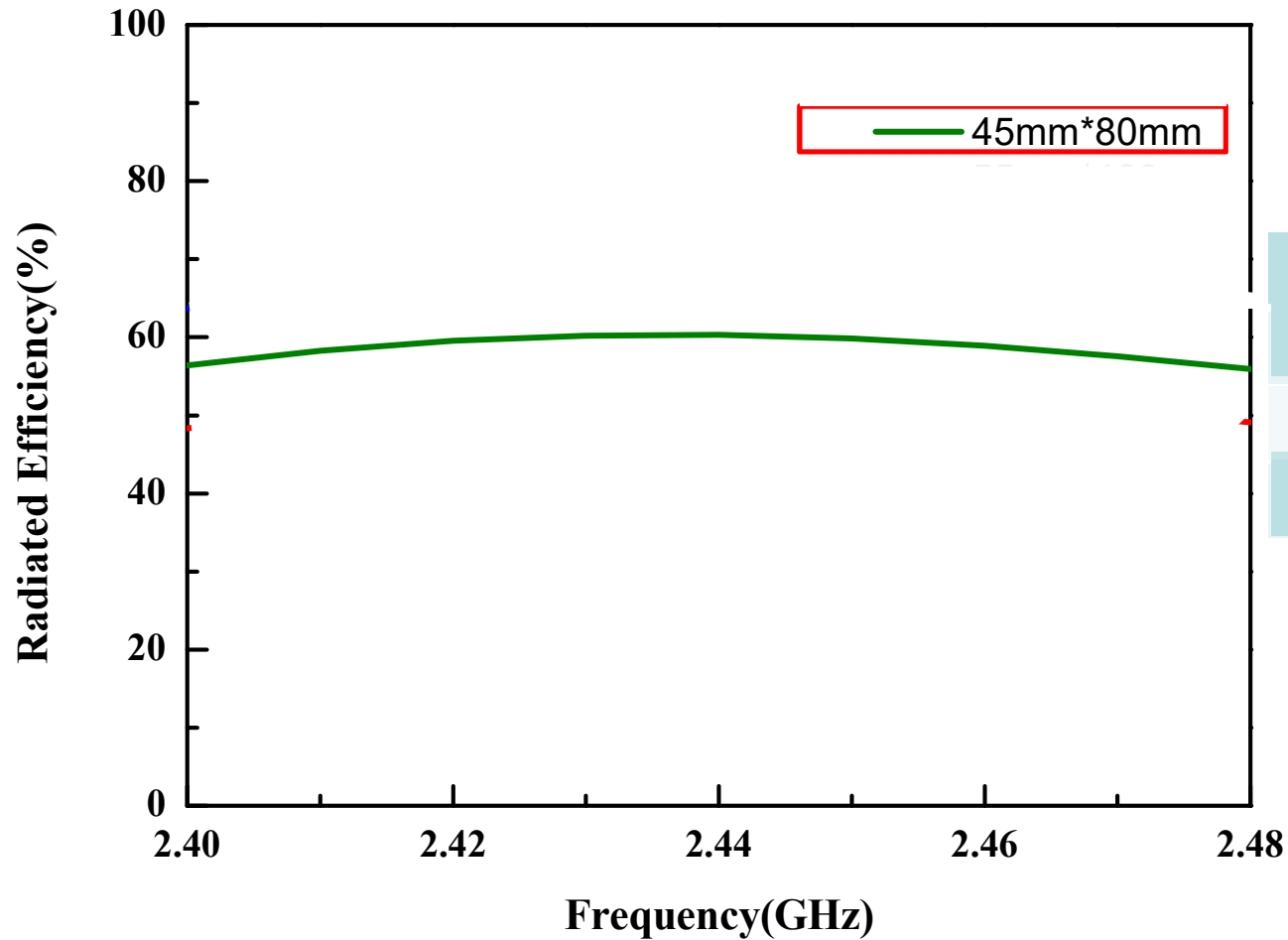


Antenna Simulation

Type(w*h)	-10dB(GHz)
45mm*80mm	2.39 ~ 2.47



Radiated Efficiency

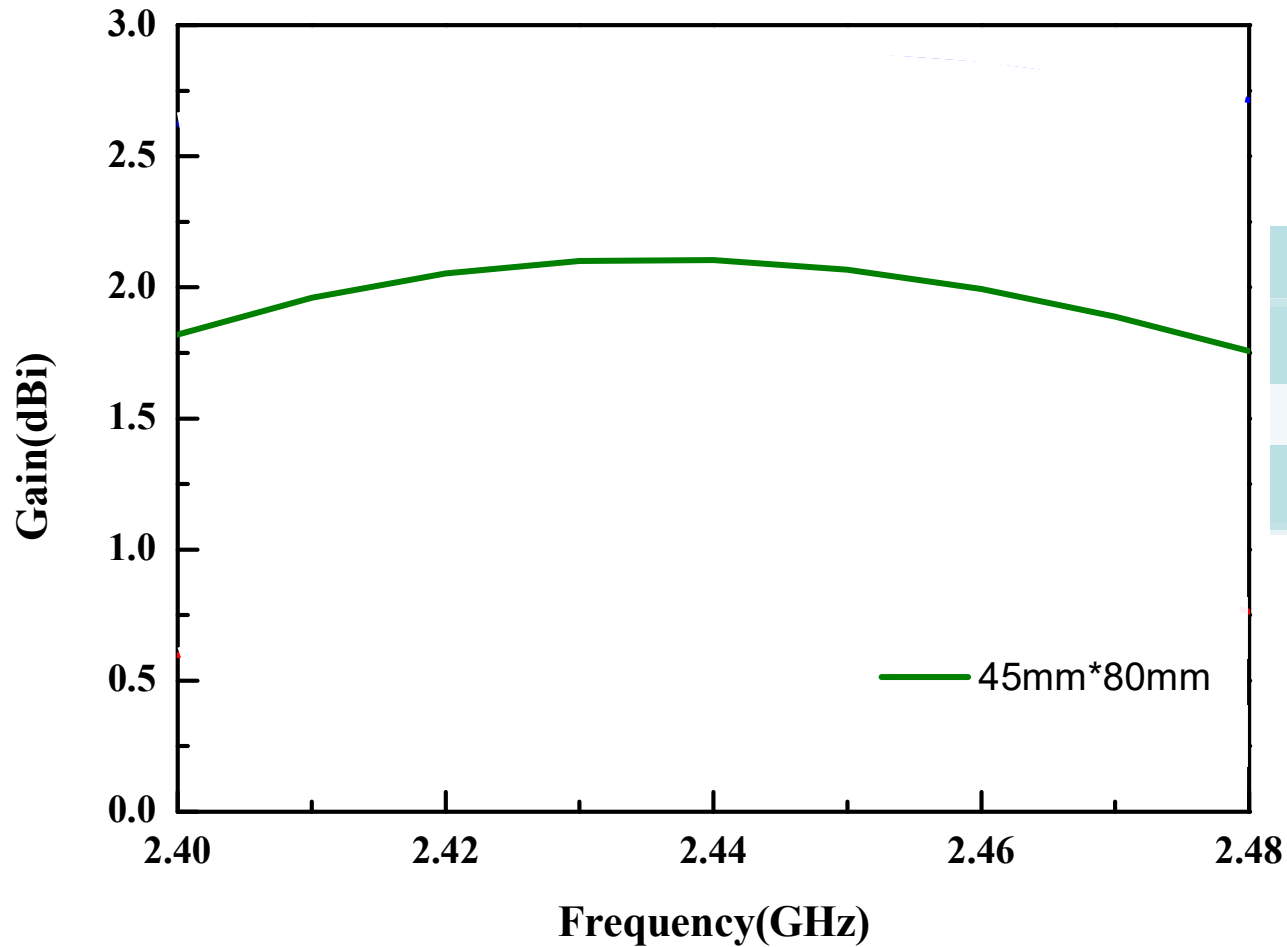


Antenna Simulation

Type	Efficiency(%)
45mm*80mm	55.9 ~ 60.3



Gain

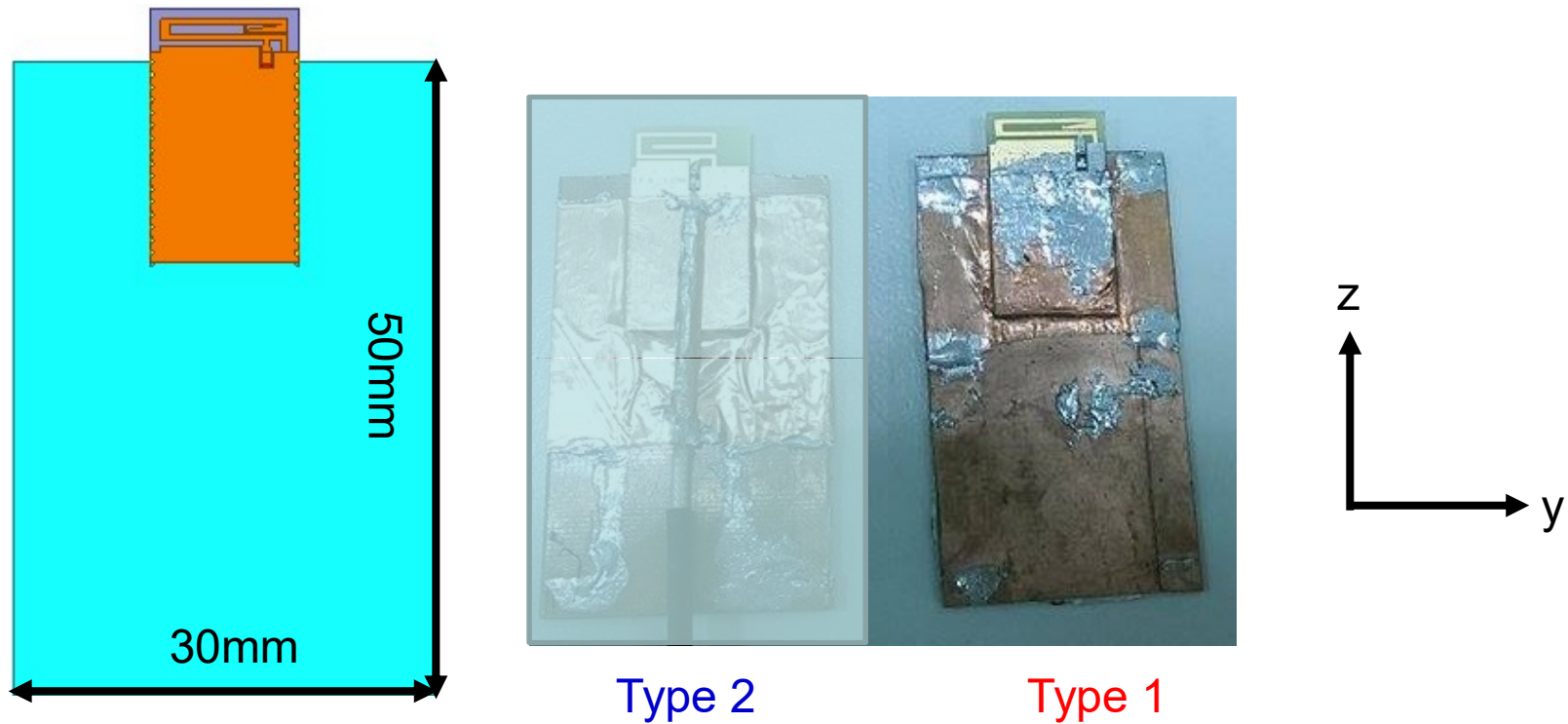


Antenna Simulation

Type(w*h)	Gain(dBi)
45mm*80mm	1.75 ~ 2.10

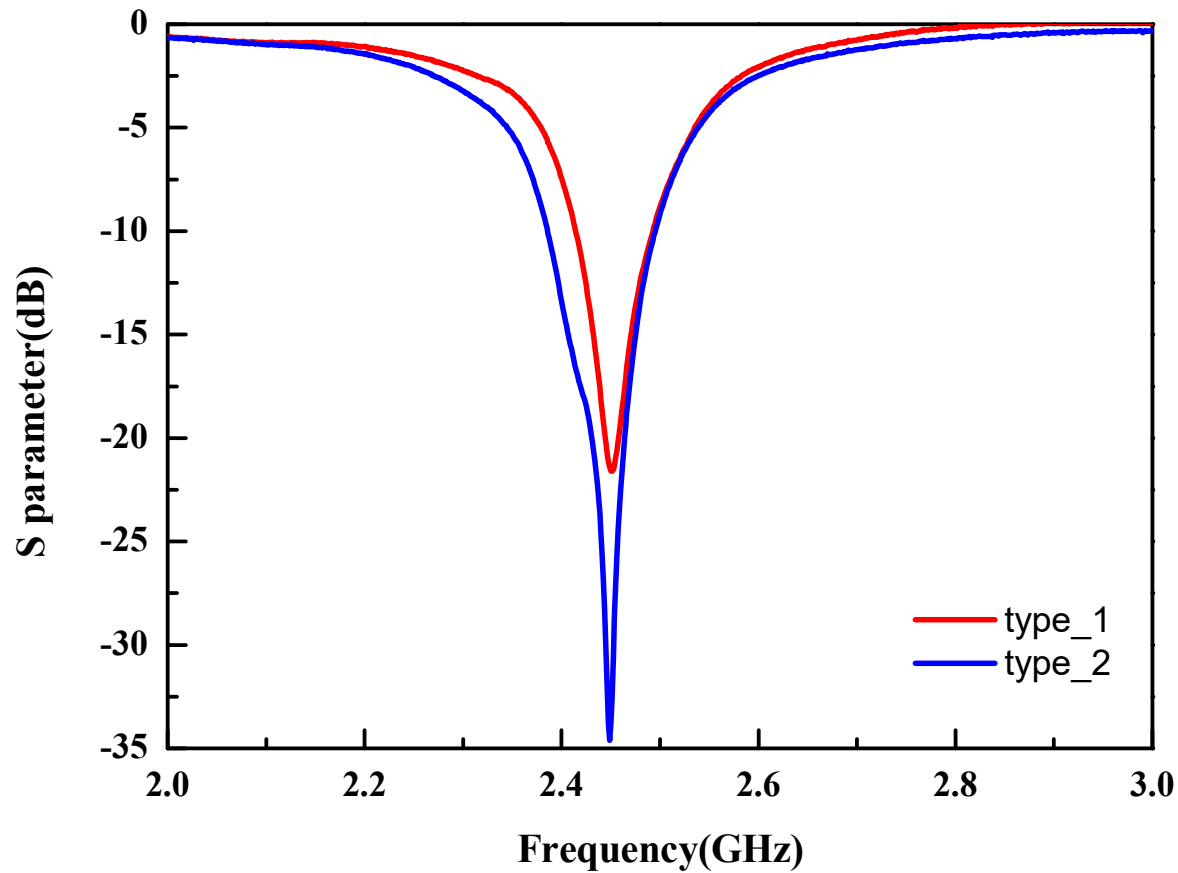


Schematic of test setup



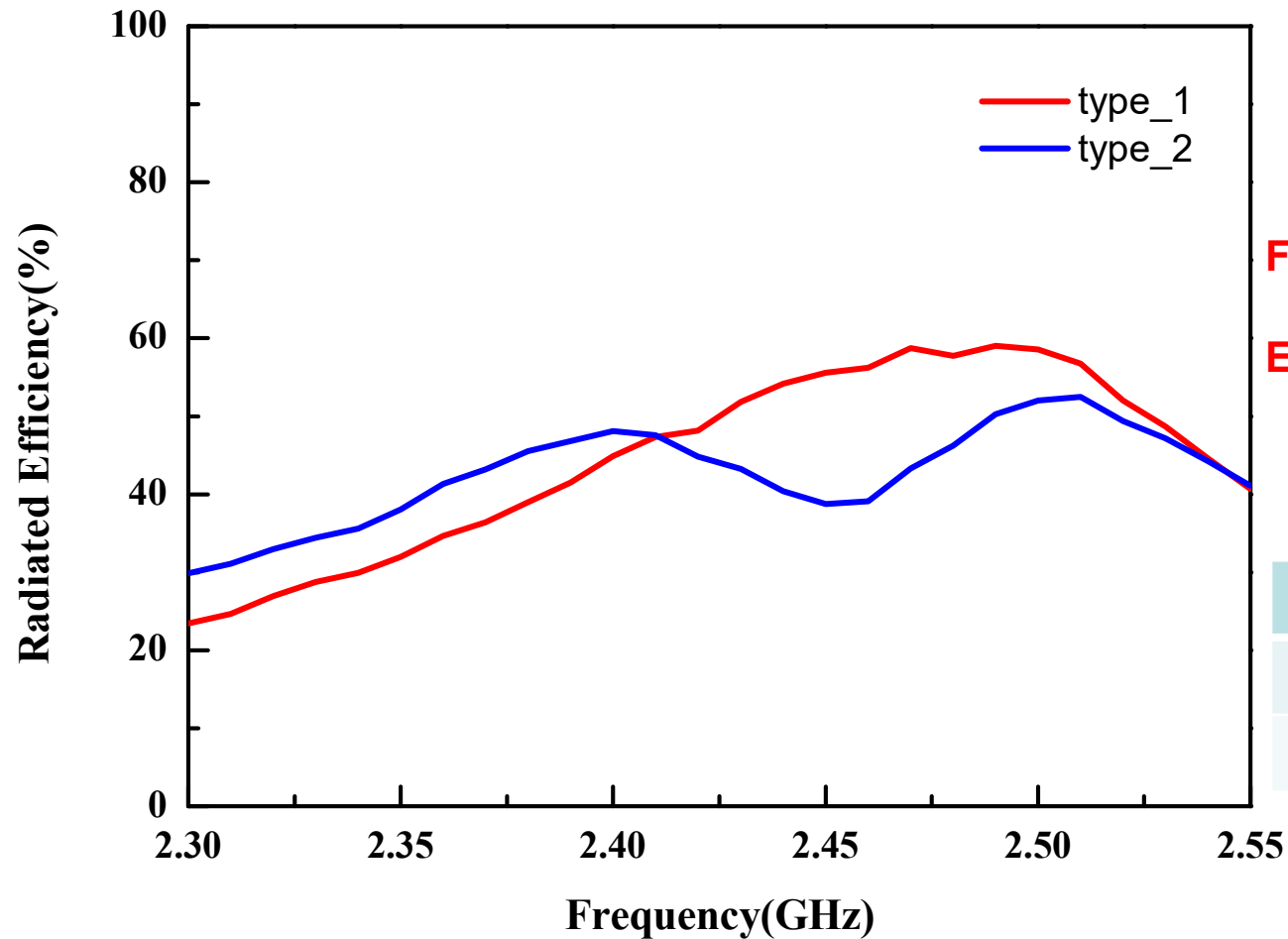
S_Parameter

Antenna Test Result



Radiated Efficiency

Antenna Test Result



Freq Range : 2.4GHz~2.485GHz

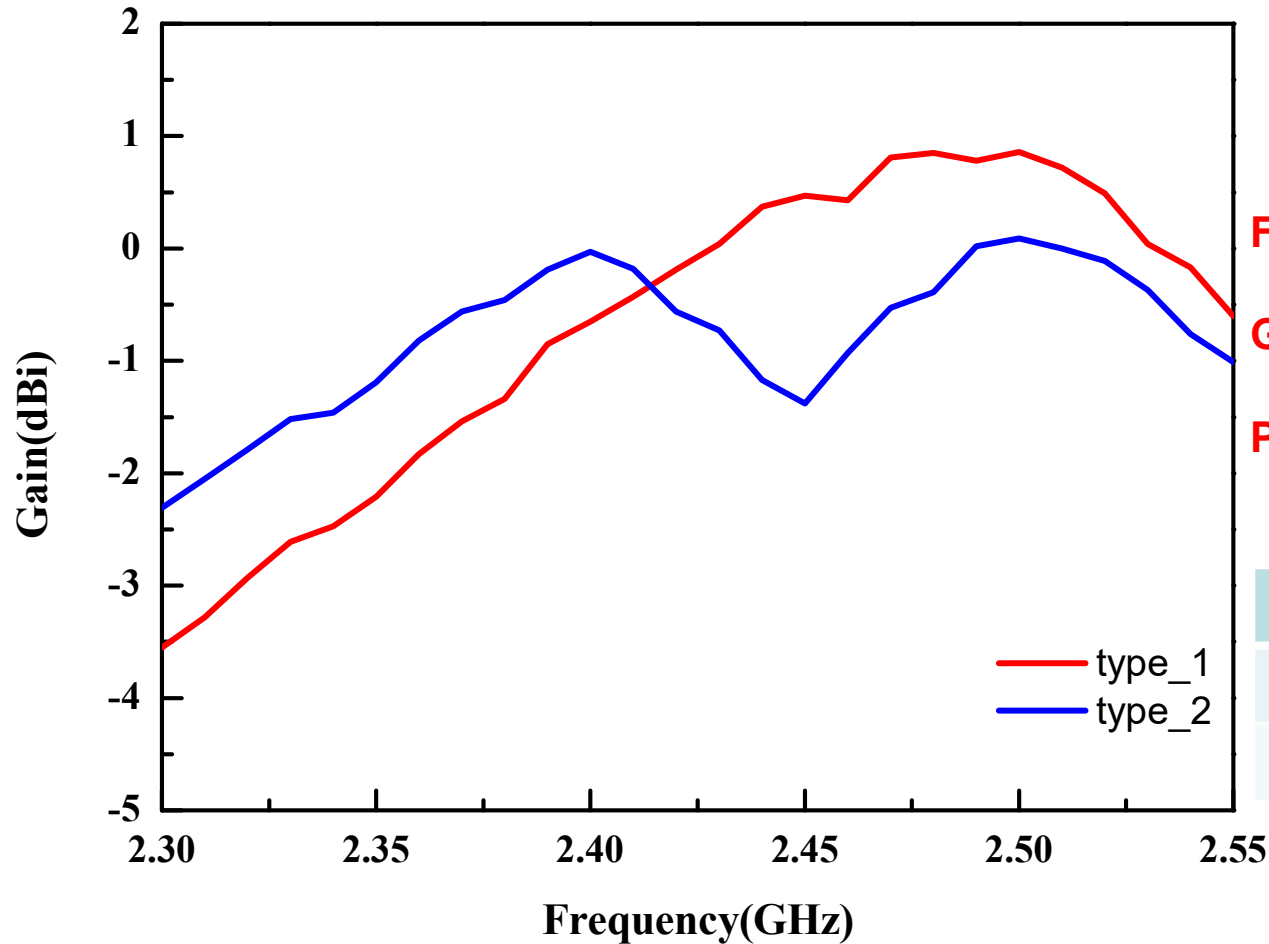
Efficiency : 44.8~58.7%

Type	Efficiency(%)
Type_1	44.8 ~ 58.7
Type_2	38.7 ~ 48.0



Gain

Antenna Test Result



Freq Range : 2.4GHz~2.485GHz

Gain : -0.65 ~ 0.85dBi

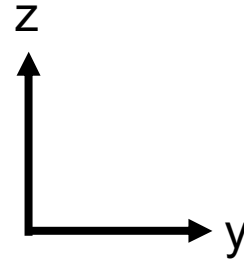
Peak Gain : 0.85dBi

Type(w*h)	Gain(dBi)
Type_1	-0.65 ~ 0.85
Type_2	-1.38 ~ -0.03



Radiation pattern

Type_2



Antenna Test Result

