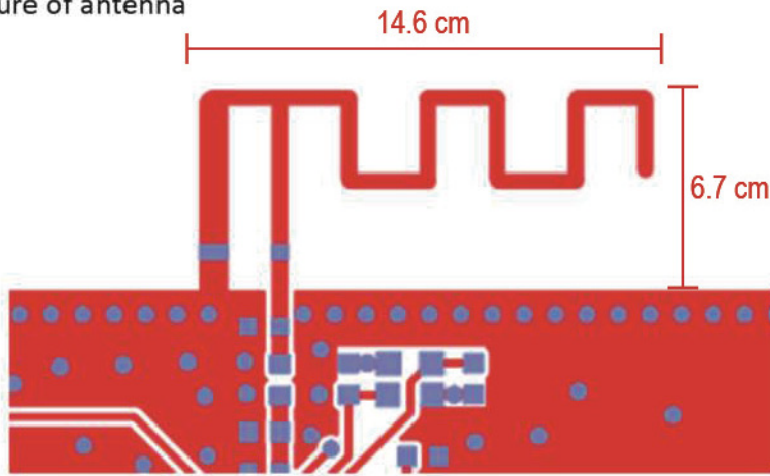


1. Antenna Description:

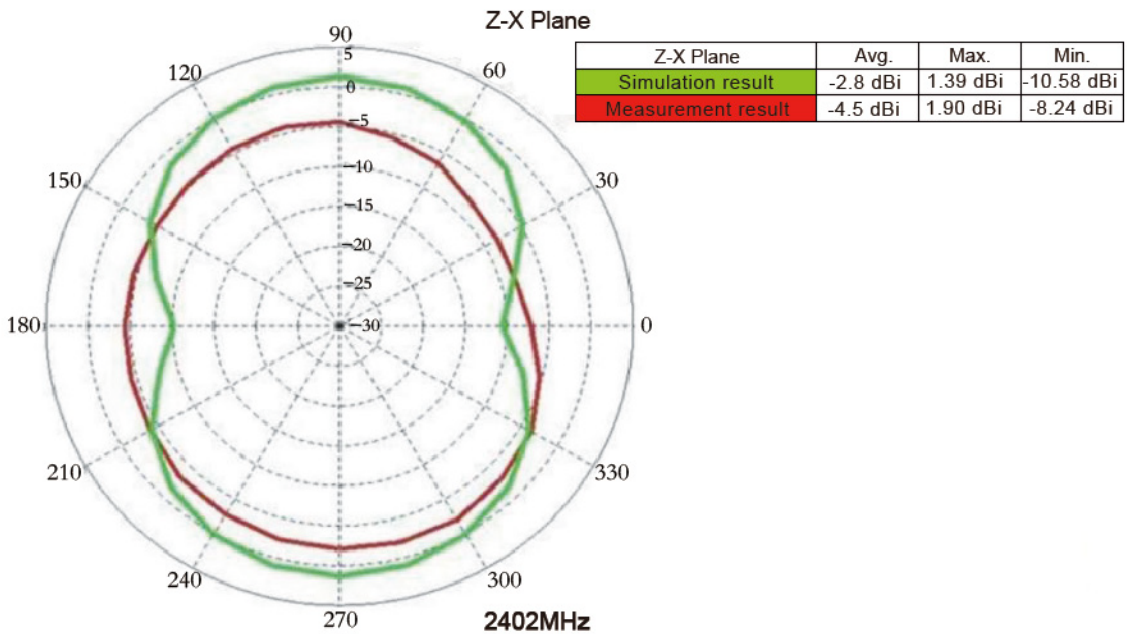
Antenna type	PCB Antenna	
Make name / Model name	TVX59	
Antenna peak gain	2.0 dBi	
Frequency range	2.402MHz~2.480MHz	
Connect type	Direct Connect	
Supplier	SHENZHEN SURE THING INDUSTRY AND COMMERCE DEVELOPMENT CO.,LTD.	
	Building 6,1st Phase of Fu'an Industrial City, 99th Dayang Road,Fuhai Town,Bao'an District, Shenzhen,China.	
Total Gain	2. 402G	1.9 dBi
	2. 441G	2.0 dBi
	2. 480G	1.82 dBi

2. Picture of antenna

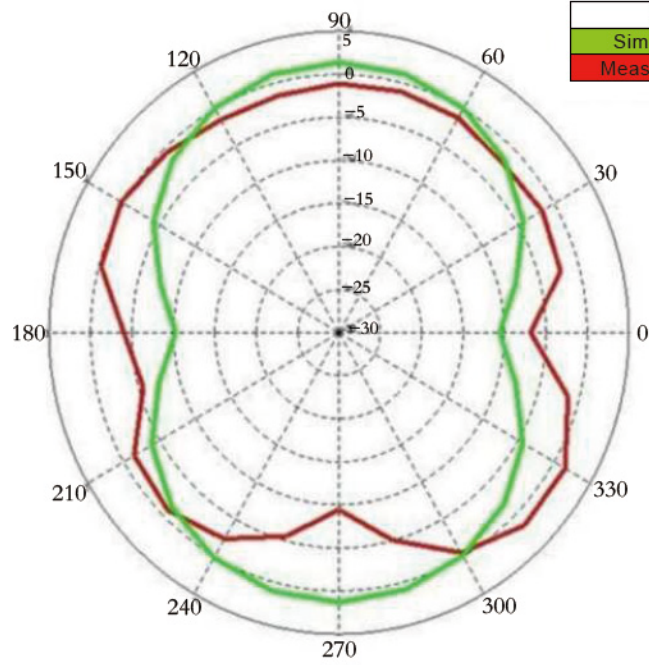


3. Antenna Radiation Pattern

Radiation pattern @2.402GHz



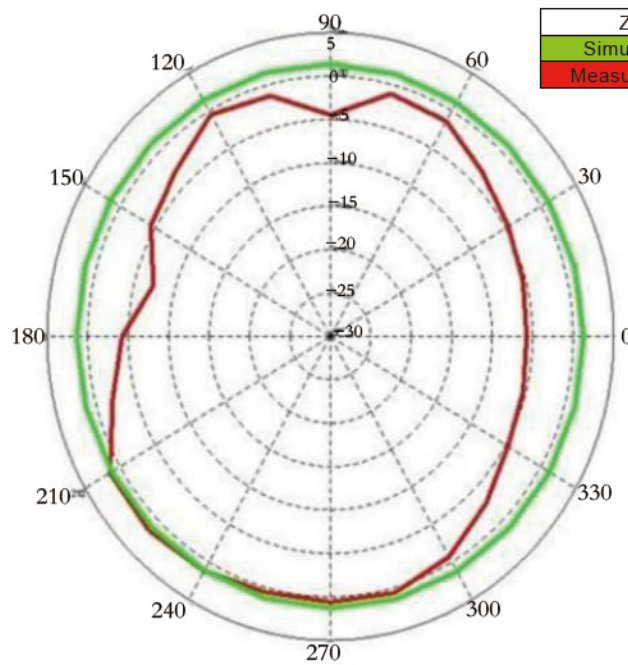
Z-Y Plane



Z-Y Plane	Avg.	Max.	Min.
Simulation result	-2.8 dBi	1.45 dBi	-10.58 dBi
Measurement result	-2.1 dBi	1.7 dBi	-9.42 dBi

2402MHz

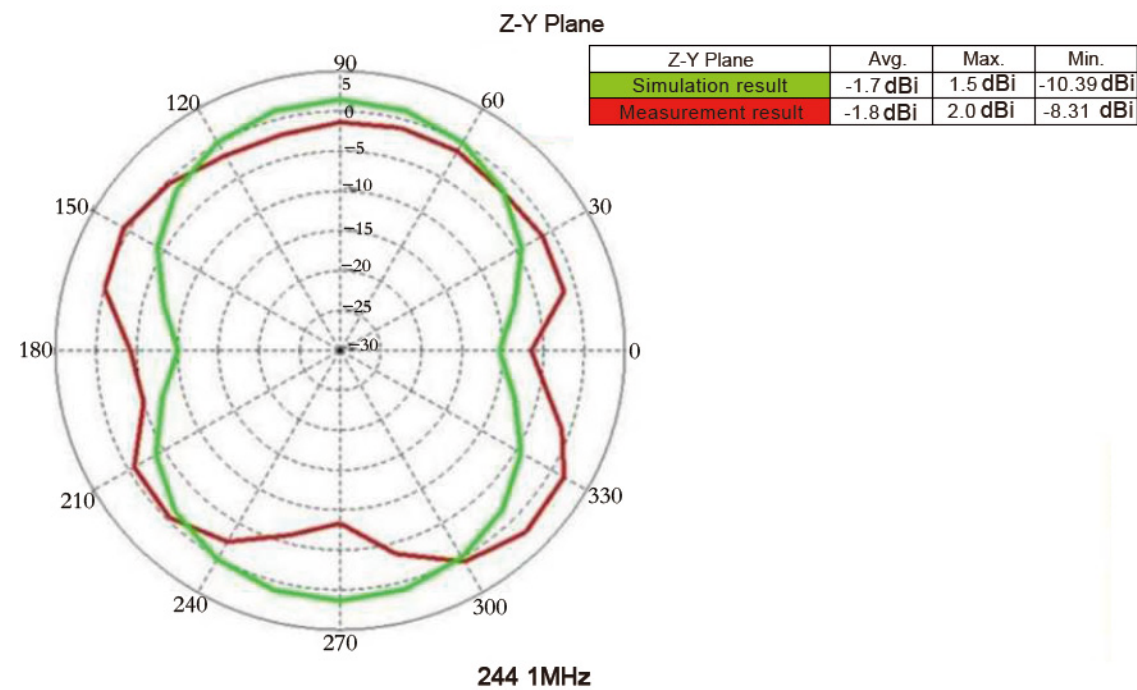
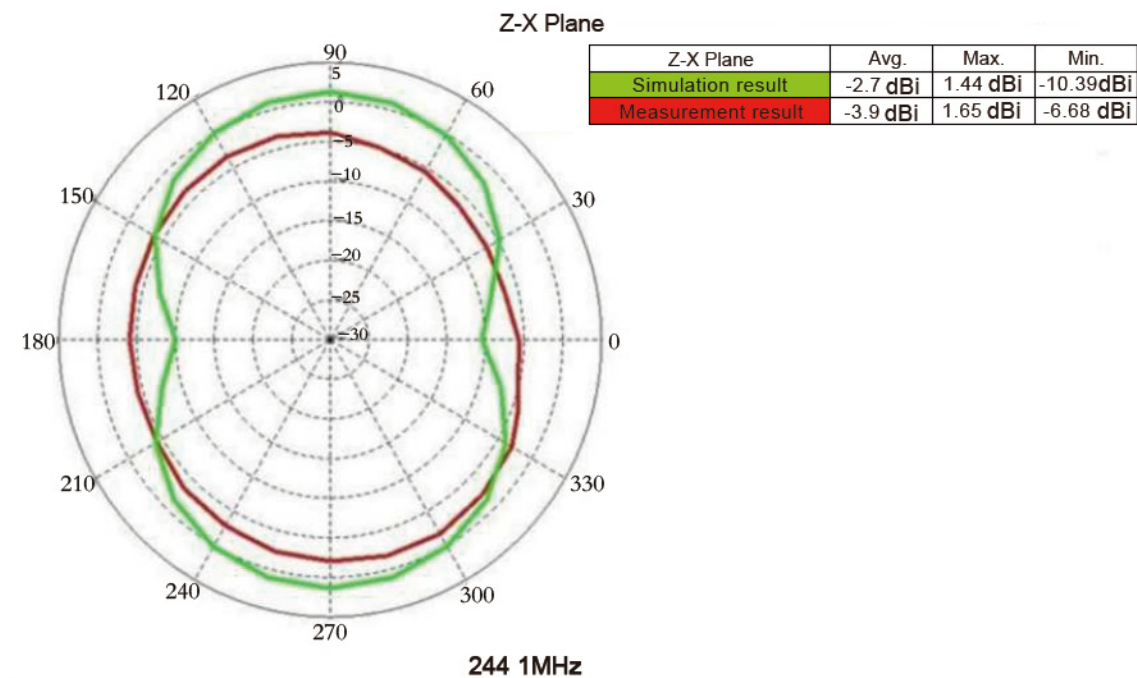
X-Y Plane

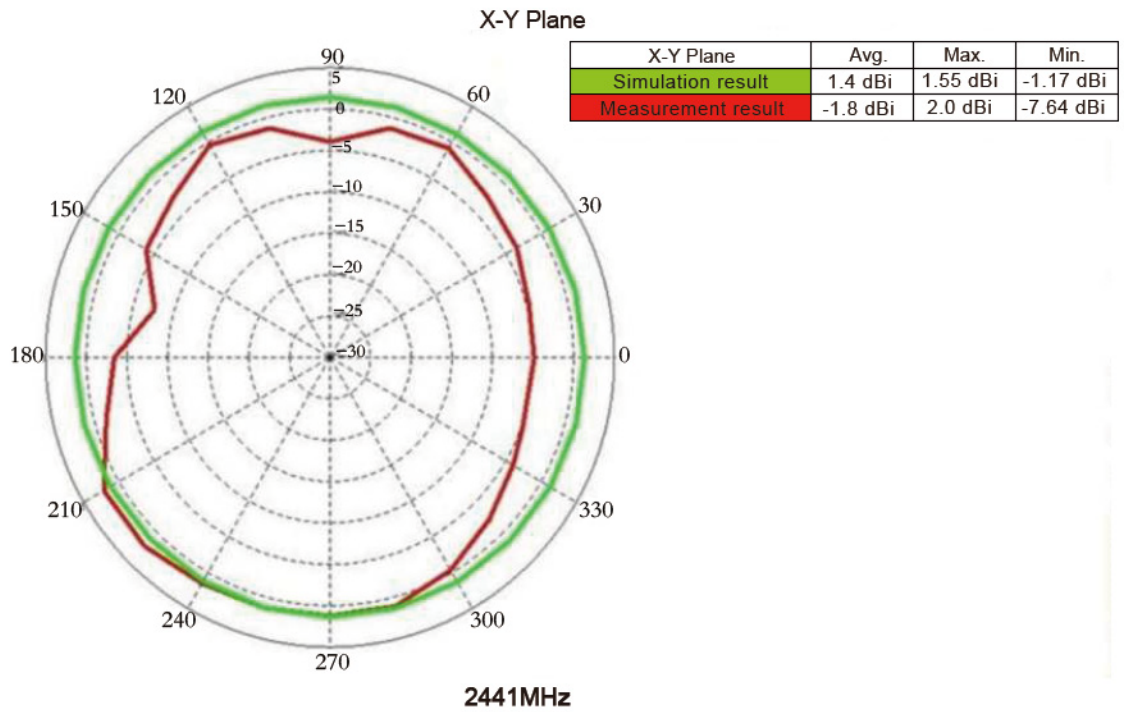


Z-Y Plane	Avg.	Max.	Min.
Simulation result	1.3 dBi	1.5 dBi	-1.15 dBi
Measurement result	-2.3 dBi	1.7 dBi	-7.34 dBi

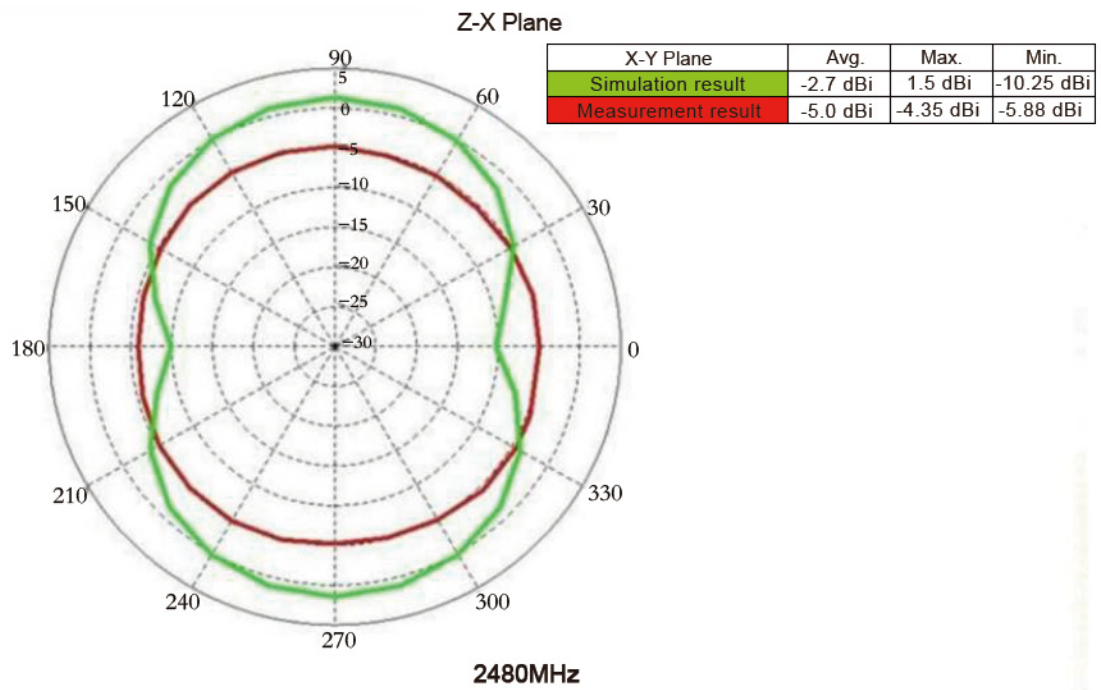
2402MHz

Radiation pattern @2.441GHz

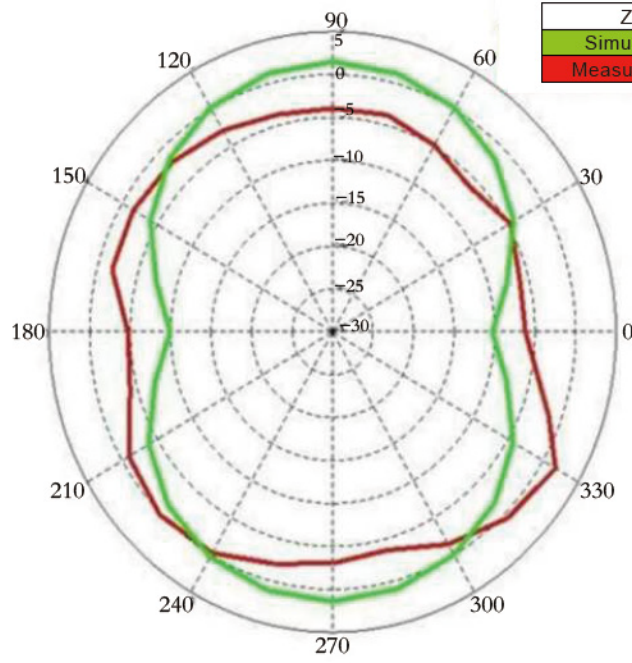




Radiation pattern @2.480GHz



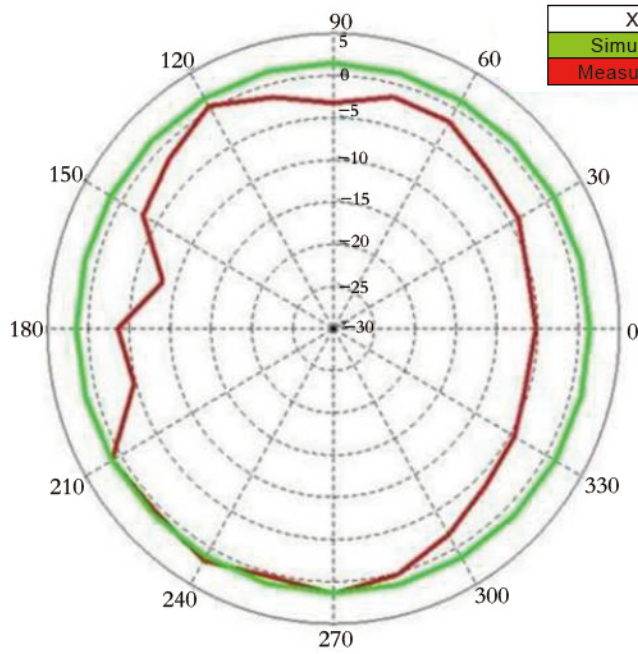
Z-Y Plane



Z-Y Plane	Avg.	Max.	Min.
Simulation result	-2.7 dBi	1.55 dBi	-10.25 dBi
Measurement result	-2.8 dBi	1.82 dBi	-6.16 dBi

2480MHz

X-Y Plane



X-Y Plane	Avg.	Max.	Min.
Simulation result	1.4 dBi	1.61 dBi	1.22 dBi
Measurement result	-2.3 dBi	1.82 dBi	-8.38 dBi

2480MHz