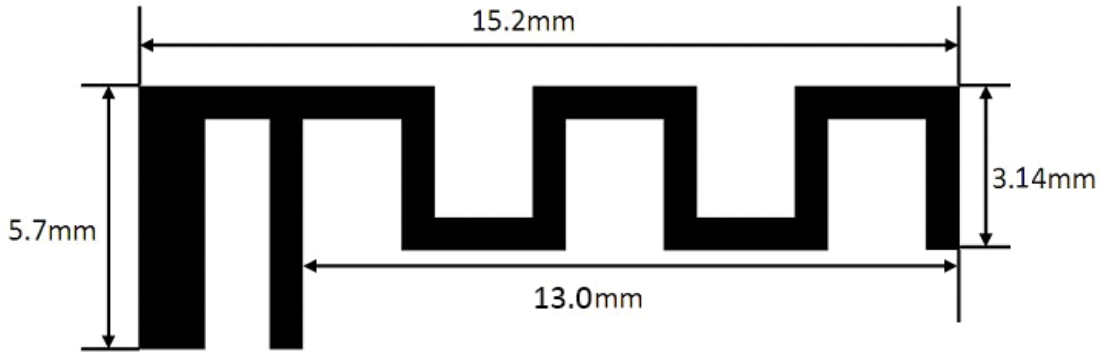
Inverted F Antenna Specification

Summary

ITEM	ANT SPEC					
Model Name	2.4G ANT					
Center Frequency	Horizontal			Vertical		
	2400MHz	2400MHz	2500MHz	2400MHz	2400MHz	2500MHz
	-1.26	-0.76	-0.58	-5.25	-2.46	-1.86
MAX. Gain	-0.58dB					
Polarization	Horizontal and Vertical					
Azimuth Beam Pattern	Omni-directional					
Impedance	50 Ohm					
Antenna Length	38.20mm					
Manufacture	ZHUHAI JIELI TECHNOLOGY CO.,LTD					

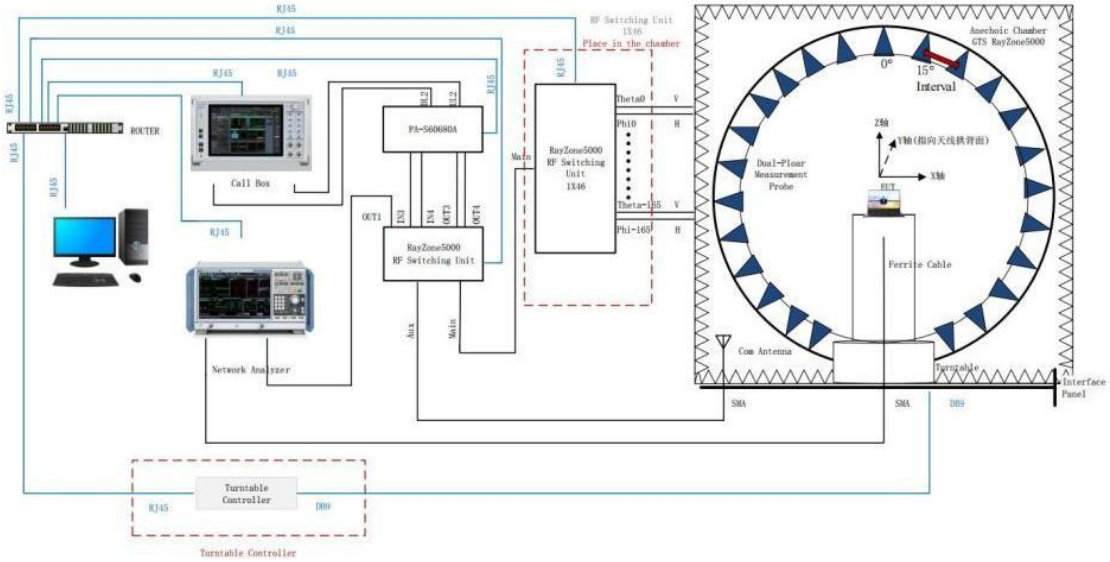
Antenna Photo & Length (mm)

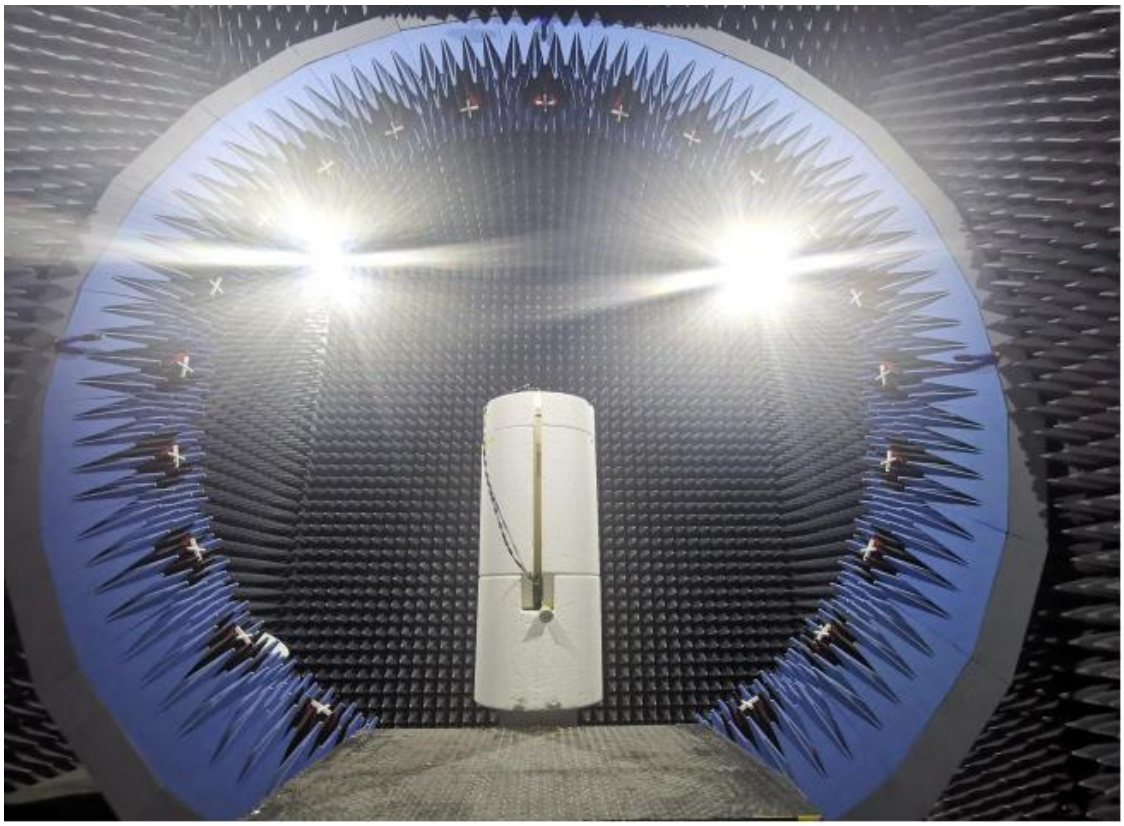


Test equipment list

name	Manufacturer	Model
Network analyzer	KEYSIGHT	E5071C
Network analyzer	KEYSIGHT	E5071C
Comprehensive Measuring Instrument	R&S	CWM500
OTA test system	GTS	RayZone-5000

Test setup

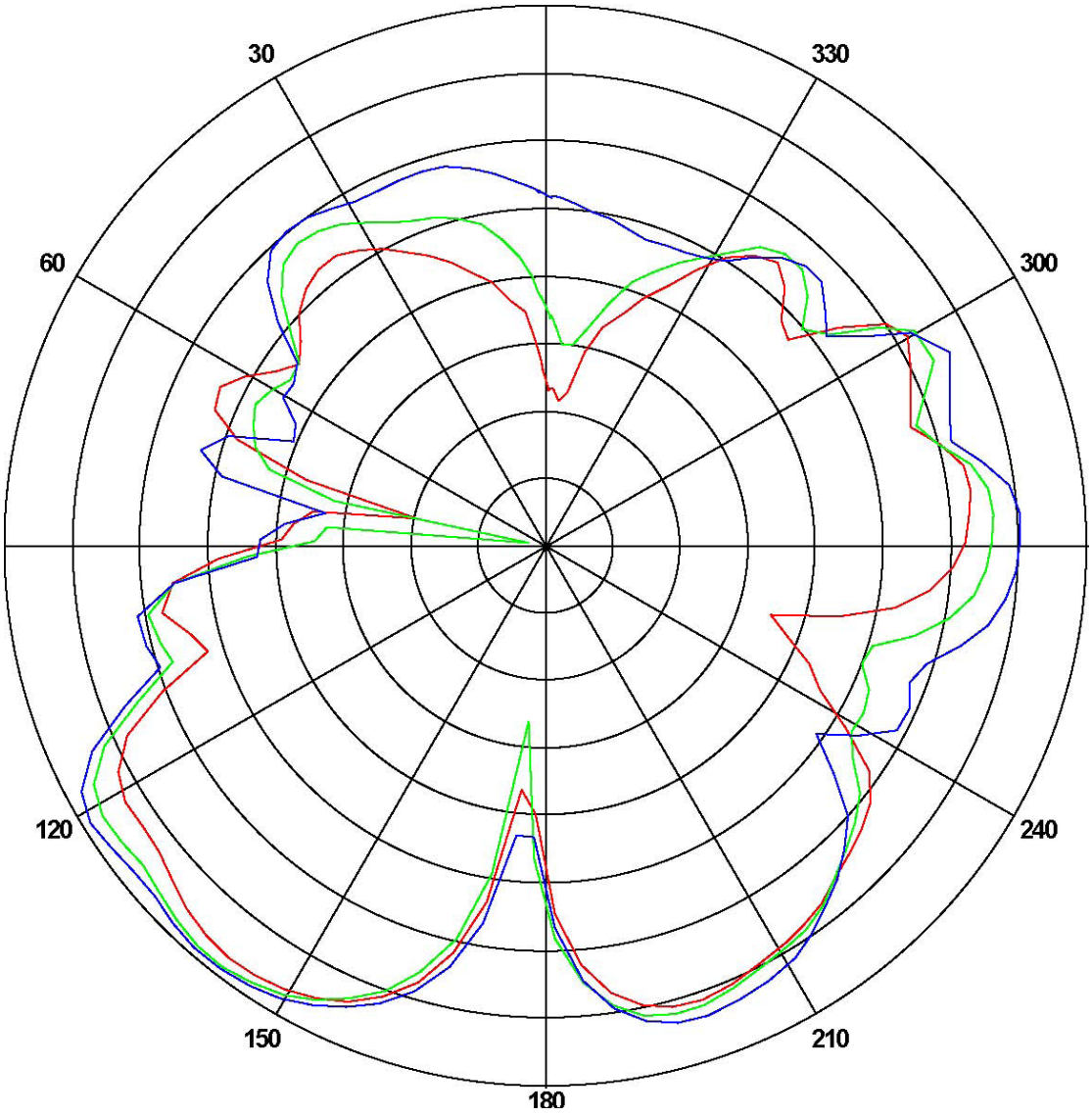

RJ45
RF Switching Unit
1X46
Place in the chamber
Anechoic Chamber
GTS RayZone5000
0°
15°
Interval
ROUTER
Call Box
PA-S60680A
RayZone5000
RF Switching
Unit
1X46
Theta0
V
Phi0
H
Theta-135
V
Phi-165
H
Dual-Ploar
Measurement
Probe
Z轴
Y轴(指向天线执背面)
X轴
EUT
Ferrite Cable
OUT1
IN3
IN4
OUT3
OUT4
RayZone5000
RF Switching Unit
Main
Aux
Network Analyzer
Com Antenna
Turntable
Interface
Panel
SMA
SMA
DB9
Turntable
Controller
RJ45
DB9
Turntable Controller



Horizontal: 2400 MHz 2450 MHz 2500 MHz

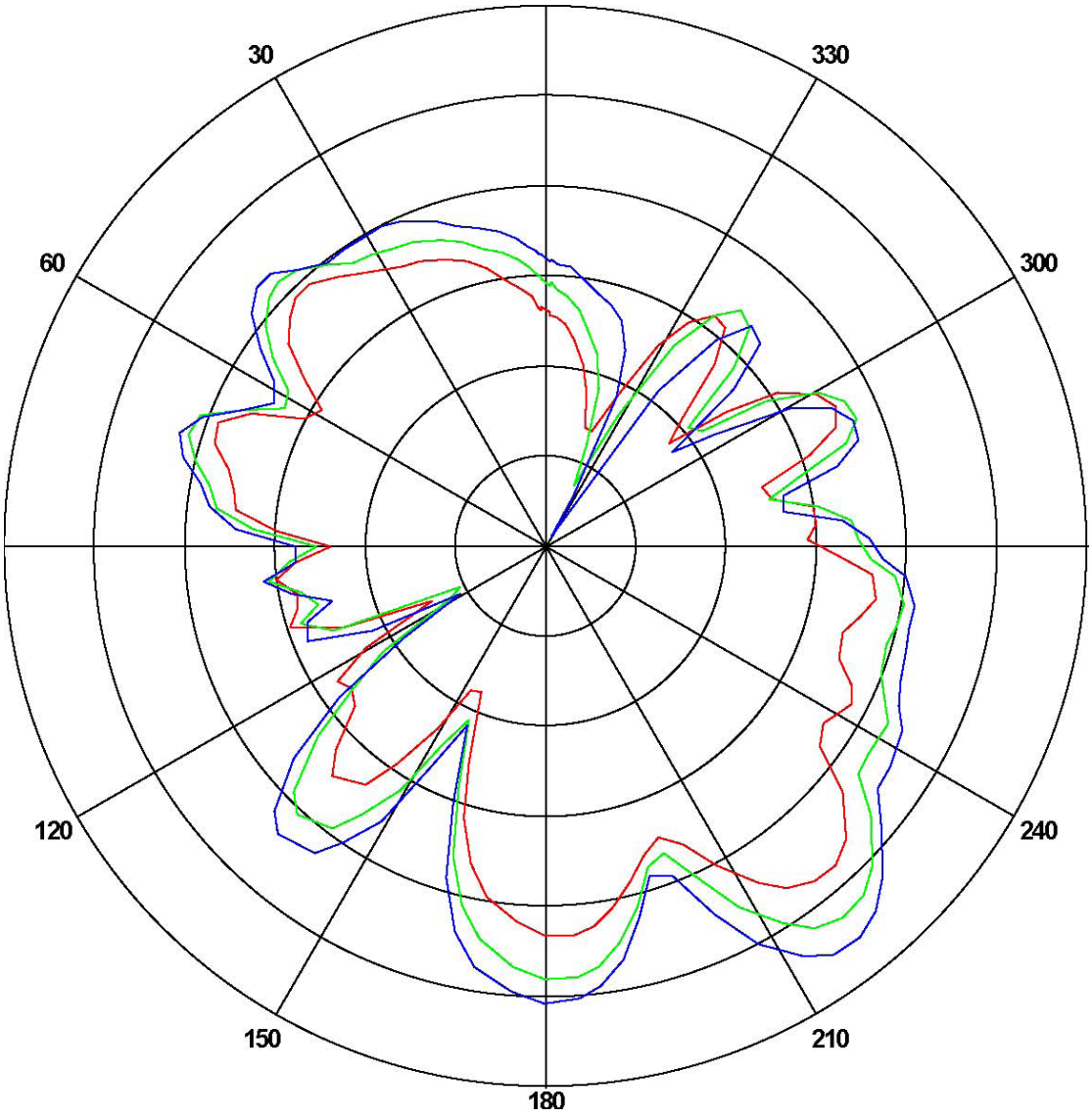
Power (dBm)

Max: 0 Min: -40 Scale: 5/div



Frequency (MHz)	Gain(dB)		
	Max	Min	Avg
2400	-1.26174	-30.0801	-7.18716
2450	-0.765802	-36.5604	-7.48023
2500	-0.585582	-22.0315	-6.59127

Vertical: 2400 MHz 2450 MHz 2500 MHz
Power (dBm)
Max: 0 Min: -30 Scale: 5/div



Frequency (MHz)	Gain(dB)		
	Max	Min	Avg
2400	-5.2537	-22.1424	-12.4294
2450	-2.4652	-24.5837	-10.4702
2500	-1.86120	-29.5214	-9.20432