

# 天线规格

## Antenna Specification

<b>Manufacturers</b>	
Name	SHENZHEN FREQUENCY EXTENSION IOT TECHNOLOGY CO.,LTD.
Address	Building A, Jieqing Industrial Park, Fenghuangshan, Shajiao, Humen Town, Dongguan, China
<b>Electrical Properties</b>	
Model	S905X
Frequency	2.4-2.5GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	1.32dBi
Radiation	Omni-directional
Polarization	Linear
Type of Antenna	FPC Antenna
<b>Physical Properties</b>	
Connector	N/A
Cable Type	O.D.1.13mm
Cable Length	155mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25 ± 5 °C / <70%

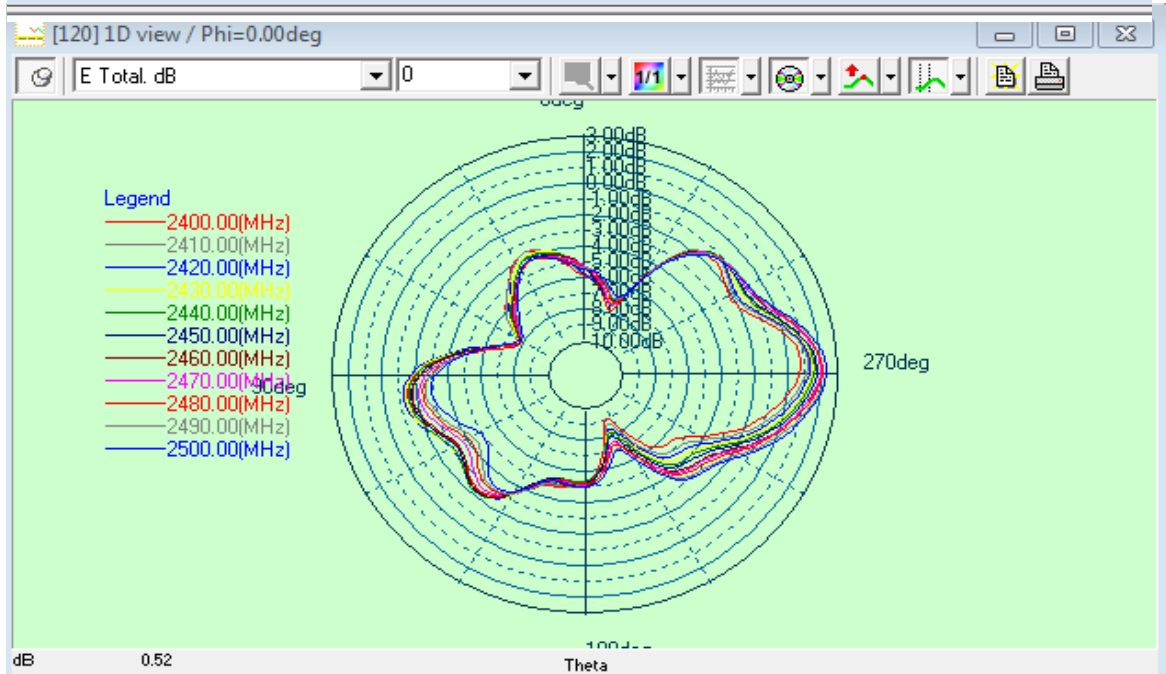
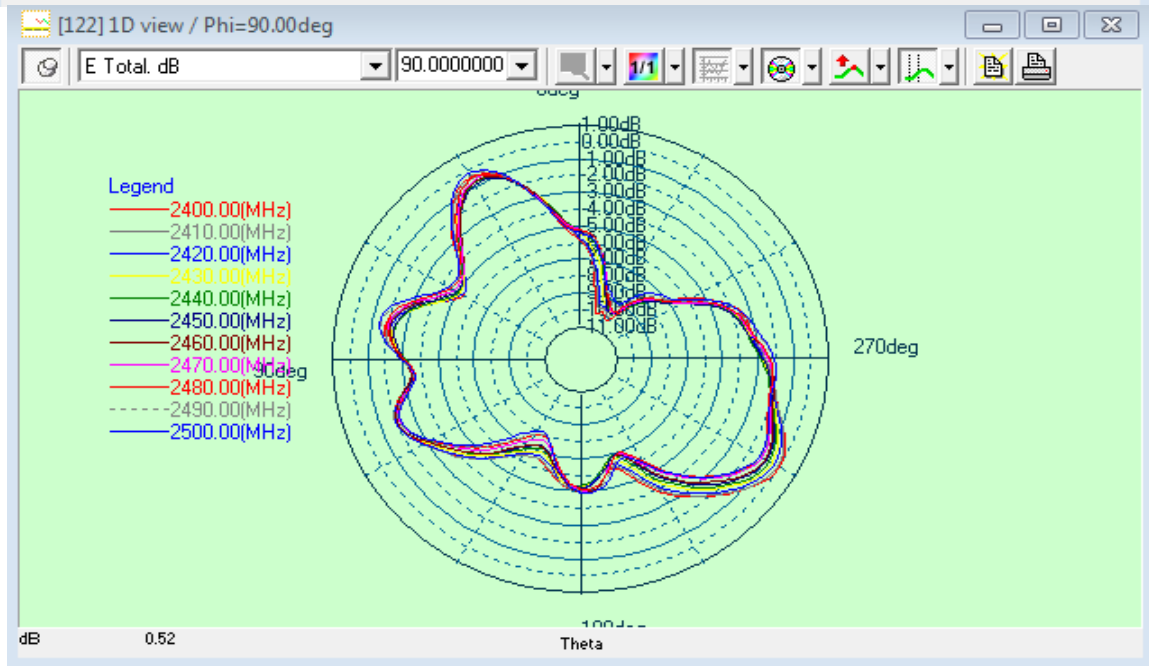
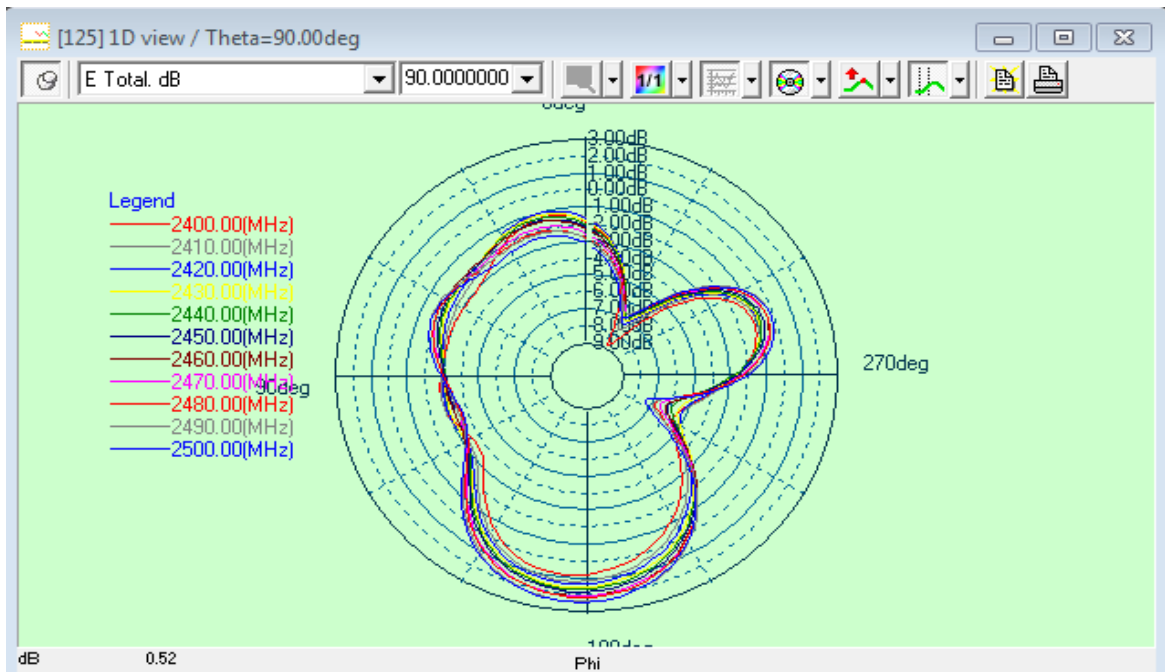
# *Antenna Performance Test*

Type of Equipment	Model Number	Manufacture
<b>SATIMO anechoic chamber</b>		
Network Analyzer	E5071C	Agilent
Radio Communication Analyzer	MT8820C	Anristu
Radio Communication Analyzer	E4438C	Agilent
Anechoic chamber		
Radio Communication Analyzer	8960	Agilent
Radio Communication Analyzer	CMW500	R&S

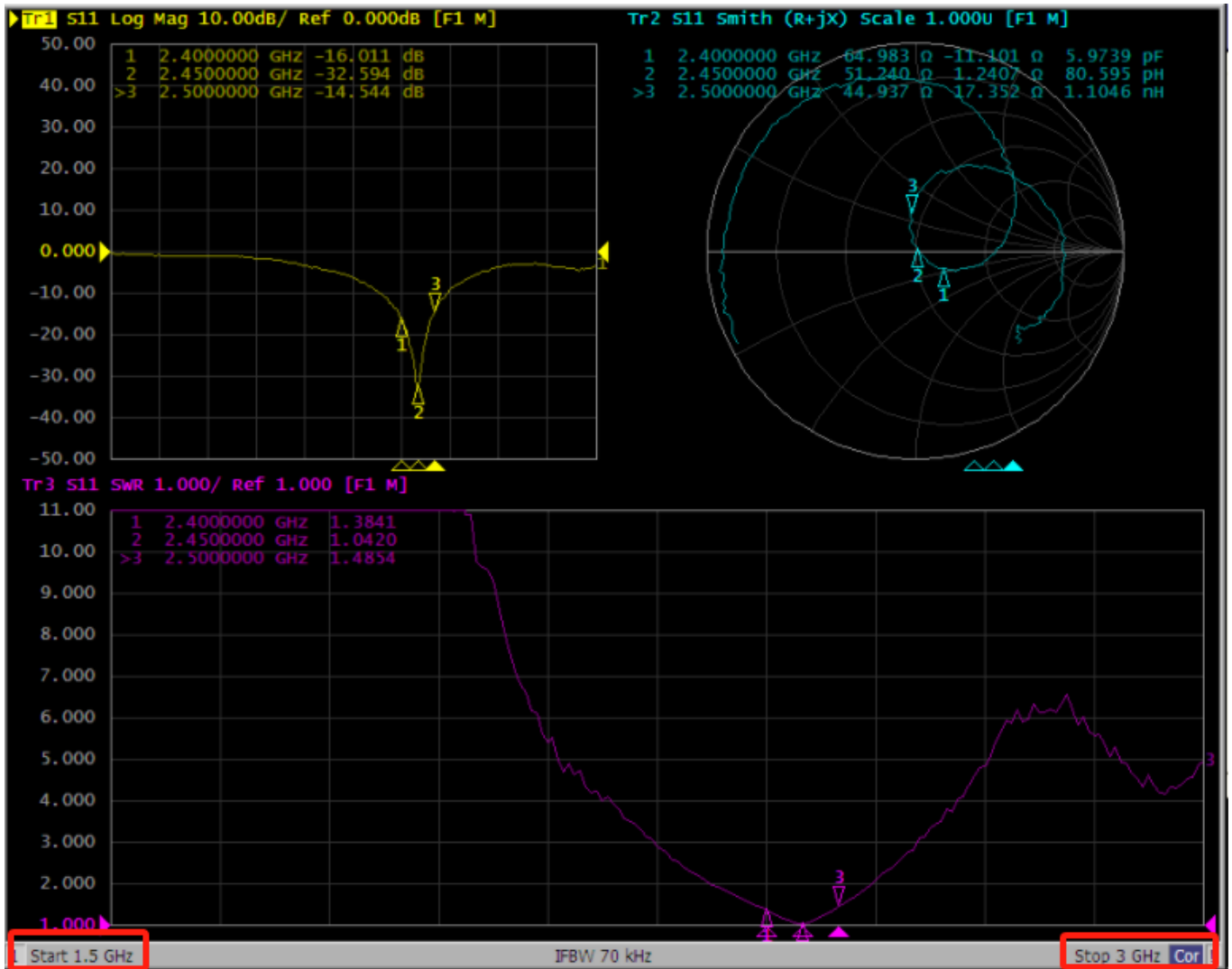
# *Antenna Passive Test*

2400-2500MHZ Efficiency			
Frequency	Efficiency	Frequency	Gain.dBi
2400MHz	33%	2400MHz	0.11
2405MHz	33%	2405MHz	0.26
2410MHz	34%	2410MHz	0.46
2415MHz	34%	2415MHz	0.55
2420MHz	34%	2420MHz	0.55
2425MHz	34%	2425MHz	0.66
2430MHz	35%	2430MHz	0.79
2435MHz	36%	2435MHz	0.90
2440MHz	36%	2440MHz	0.95
2445MHz	36%	2445MHz	0.94
2450MHz	37%	2450MHz	1.00
2455MHz	38%	2455MHz	1.11
2460MHz	40%	2460MHz	1.32
2465MHz	40%	2465MHz	1.42
2470MHz	41%	2470MHz	1.47
2475MHz	41%	2475MHz	1.56
2480MHz	43%	2480MHz	1.75
2485MHz	45%	2485MHz	1.98
2490MHz	46%	2490MHz	2.13
2495MHz	47%	2495MHz	2.25
2500MHz	46%	2500MHz	2.13

# Antenna 2-D Pattern Plots



# Antenna Voltage Standing Wave Ratio (VSWR)



# *Antenna Active Test*

Application Information	
O4Version	5.230.336
TotalTime	14m 8s 914ms
<b>AdditionalInfor</b>	<b>802.11b : 11MBps</b>

Test Result	Wifi 2.4G		
	1	7	13
Frequency (MHz)	2412	2442	2472
<b>TRP(dBm)</b>	<b>17.02</b>	<b>17.54</b>	<b>17.65</b>
<b>TIS(dBm)</b>			<b>-80.15</b>

# Antenna Appearance

