



# APPROVAL SHEET

CUSTOMER NAME		
CUSTOMER P/N		
PART NAME	2.4G FPC Bracket antenna (Suitable for model: ML22)	
P/ N	YJC-6N000-B227-E	
APPROVAL REV.	A0	
DELIVERY DATE	October 17th, '23	
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APPROVED BY		
Customer Approved		
Approved By	Checked By	Prepared By

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Phone + 86-755-27810060/23192199; Fax: + 86-0755-27810057

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## Antenna technical parameters and environmental testing:

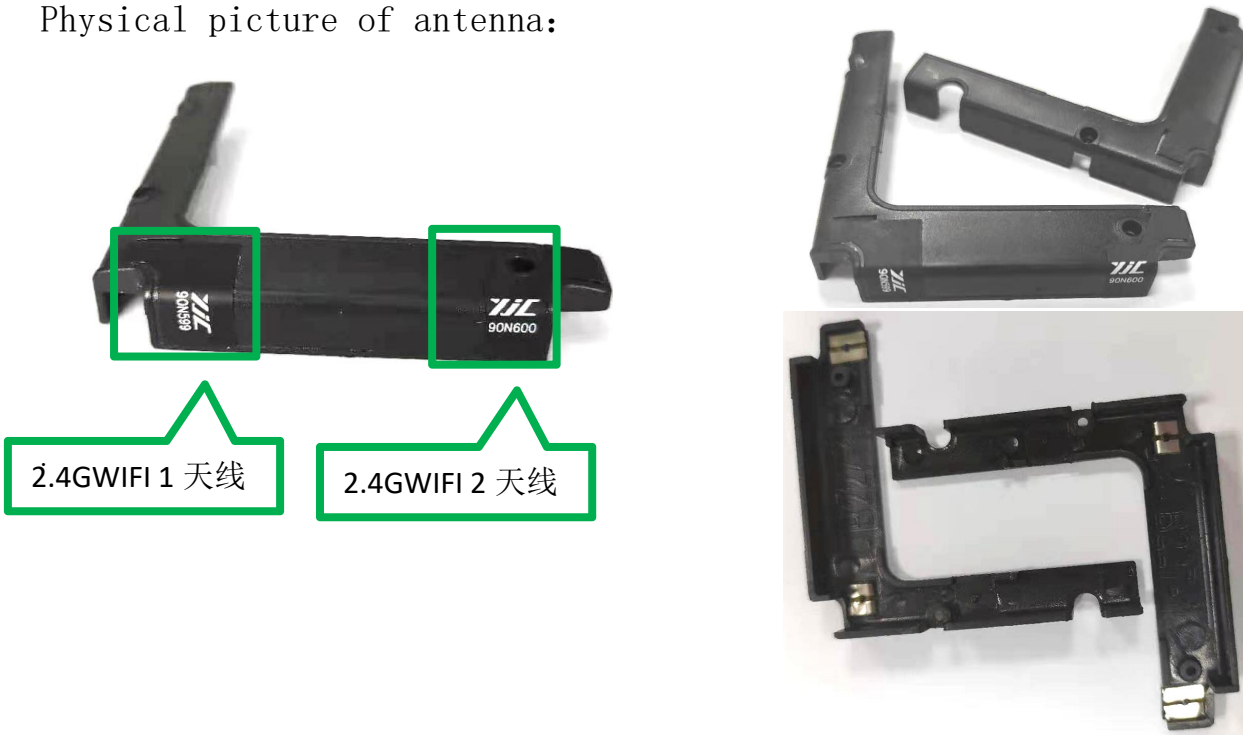
Electrical technical parameters			
Frequency Range(1)	2400MHz-2500MHz	Frequency Range(2)	2400-2500MHz
VSWR (1)	<1.92	VSWR (2)	<1.92
Input Impedance	50 $\Omega$	Antenna Color	BLACK
Direction	All	Working Temperature	-20°C~+70°C
Gain	3.0 dBi	Working Humidity	20%~80%

## Environmental performance test:

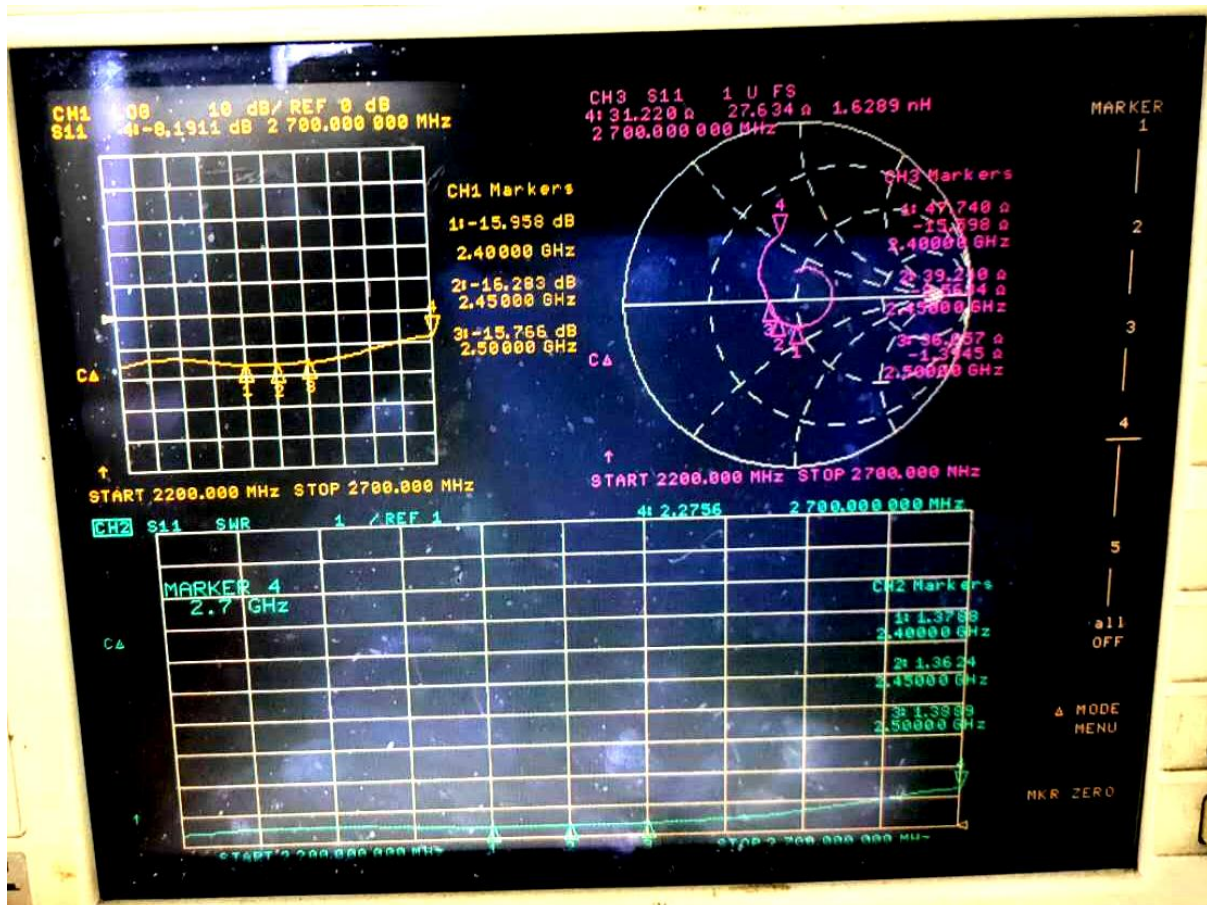
project	test condition	standard
Storage Conditions	In the absence of specified test temperature, humidity, air pressure is as follows: 1. Temperature is - 20 °C ~ + 70 °C 2. Relative humidity of 45% to 45% 3. Air pressure is 86 kpa to 106 kpa	Electrical and mechanical properties is normal
high and low temperature test	Between 70 °C and -20 °C for 5 loops, then 1-2 h under normal conditions, check the appearance quality.	Size should meet the requirements and should satisfy the content with the electrical and mechanical properties
Constant damp and hot resistance test	95 + / - 3% relative humidity, temperature test: 40 °C. Lasts 2 h after, try to take out the determination of electrical properties, within 5 min after try 1-2 h under article normal thing, check the appearance quality	Size should meet the requirements and should satisfy the content with the electrical and mechanical properties
vibration test	10-55 hz, vibration frequency range of displacement amplitude: 0.35 MM, acceleration amplitude: 50.0 M/S, sweep cycles: 30 times	Electrical and mechanical properties is normal
fall down test	1 m high altitude in accordance with the perpendicular axis free drop 3 times	Electrical and mechanical properties is normal



Physical picture of antenna:



Antenna Performance test diagram (WIFI 1 antenna):





Antenna Performance test diagram (WIFI 2 antenna):

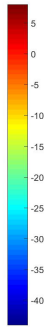
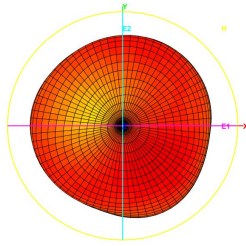


2D.3D(2.4G) test data(2.4G WIFI1):

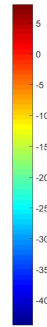
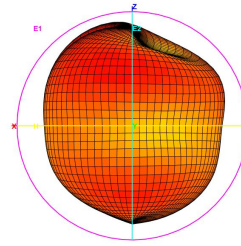
Frequency	Efficiency (%)	Gain. (dBi)
2400MHZ	45.92	2.13
2410MHZ	45.71	1.95
2420MHZ	44.77	1.79
2430MHZ	45.81	1.99
2440MHZ	43.55	1.32
2450MHZ	44.77	1.34
2460MHZ	45.92	1.33
2470MHZ	45.92	1.31
2480MHZ	44.36	1.16
2490MHZ	46.67	1.56
2500MHZ	44.98	1.38



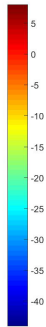
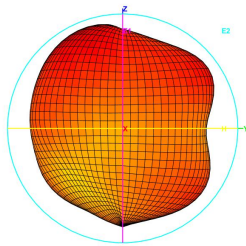
Total\_3D\_H\_2.4GHz



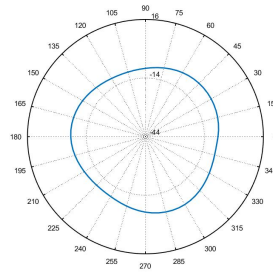
Total\_3D\_E1\_2.4GHz



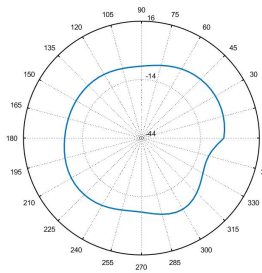
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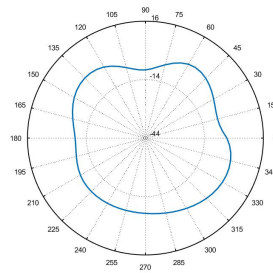
Total\_Polar\_H\_2.4GHz



Total\_Polar\_E1\_2.4GHz

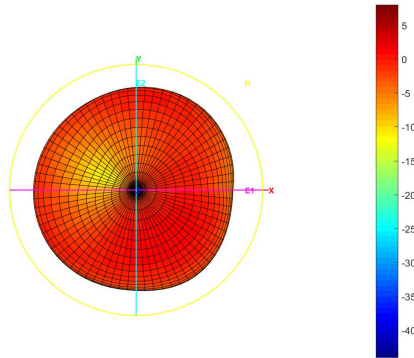


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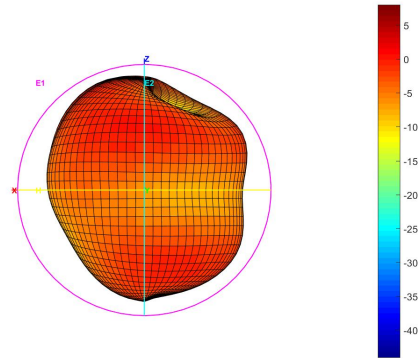




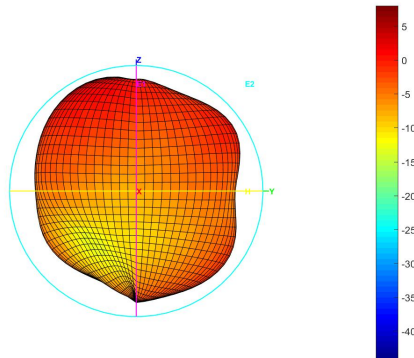
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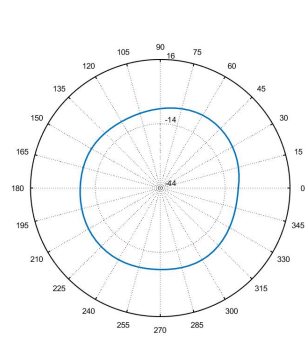
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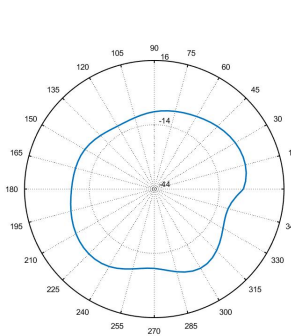
Total\_3D\_E2\_2.45GHz



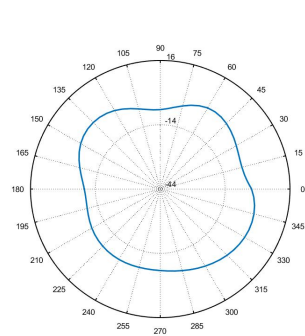
Total\_Polar\_H\_2.45GHz



Total\_Polar\_E1\_2.45GHz



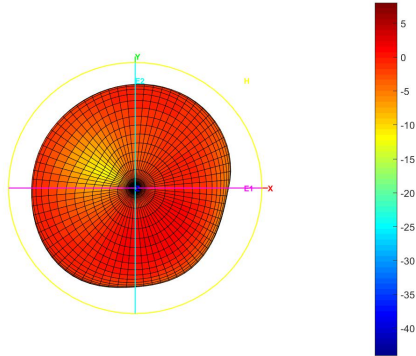
Total\_Polar\_E2\_2.45GHz



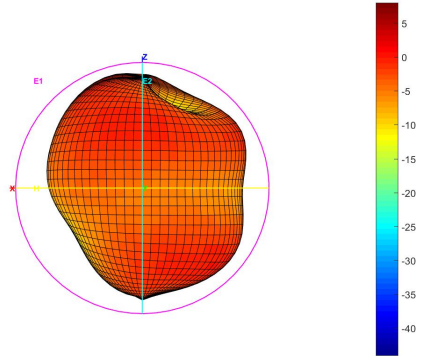




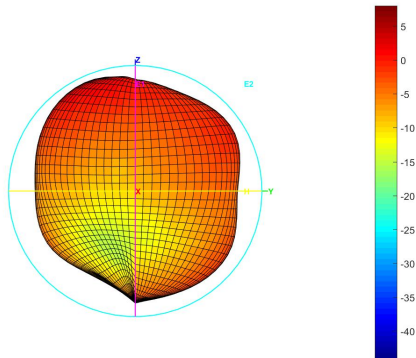
Total\_3D\_H\_2.5GHz



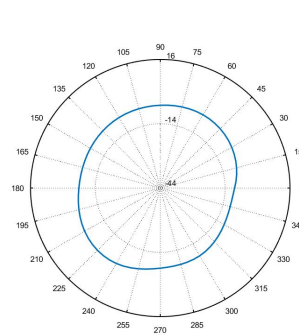
Total\_3D\_E1\_2.5GHz



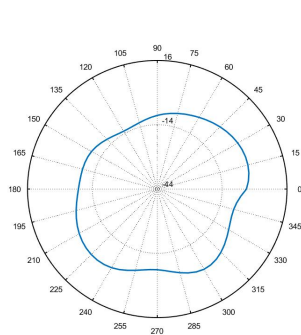
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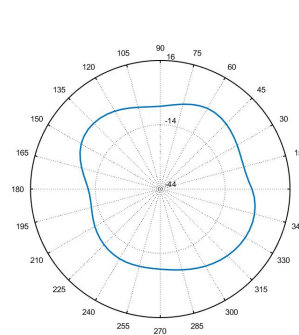
Total\_Polar\_H\_2.5GHz



Total\_Polar\_E1\_2.5GHz



Total\_Polar\_E2\_2.5GHz

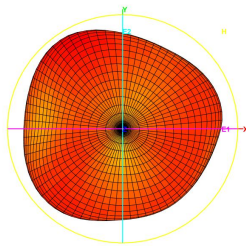




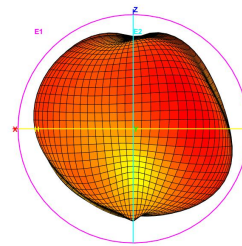
2D.3D(2.4G) test data(2.4G WIFI2):

Frequency	Efficiency (%)	Gain. (dBi)
2400MHZ	53.21	1.27
2410MHZ	54.20	1.39
2420MHZ	54.58	1.26
2430MHZ	55.21	1.16
2440MHZ	55.08	1.35
2450MHZ	55.34	1.99
2460MHZ	55.46	1.10
2470MHZ	56.10	1.04
2480MHZ	55.72	1.85
2490MHZ	56.89	1.14
2500MHZ	55.46	1.74

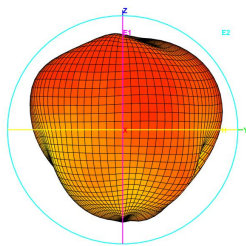
Total\_3D\_H\_2.4GHz



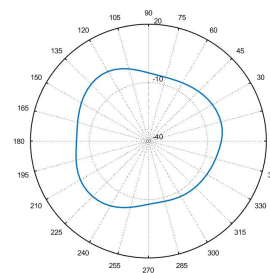
Total\_3D\_E1\_2.4GHz



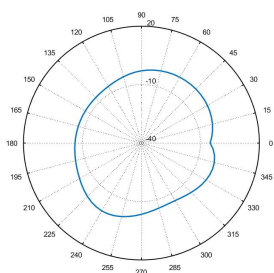
Total\_3D\_E2\_2.4GHz



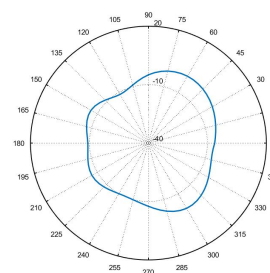
Total\_Polar\_H\_2.4GHz

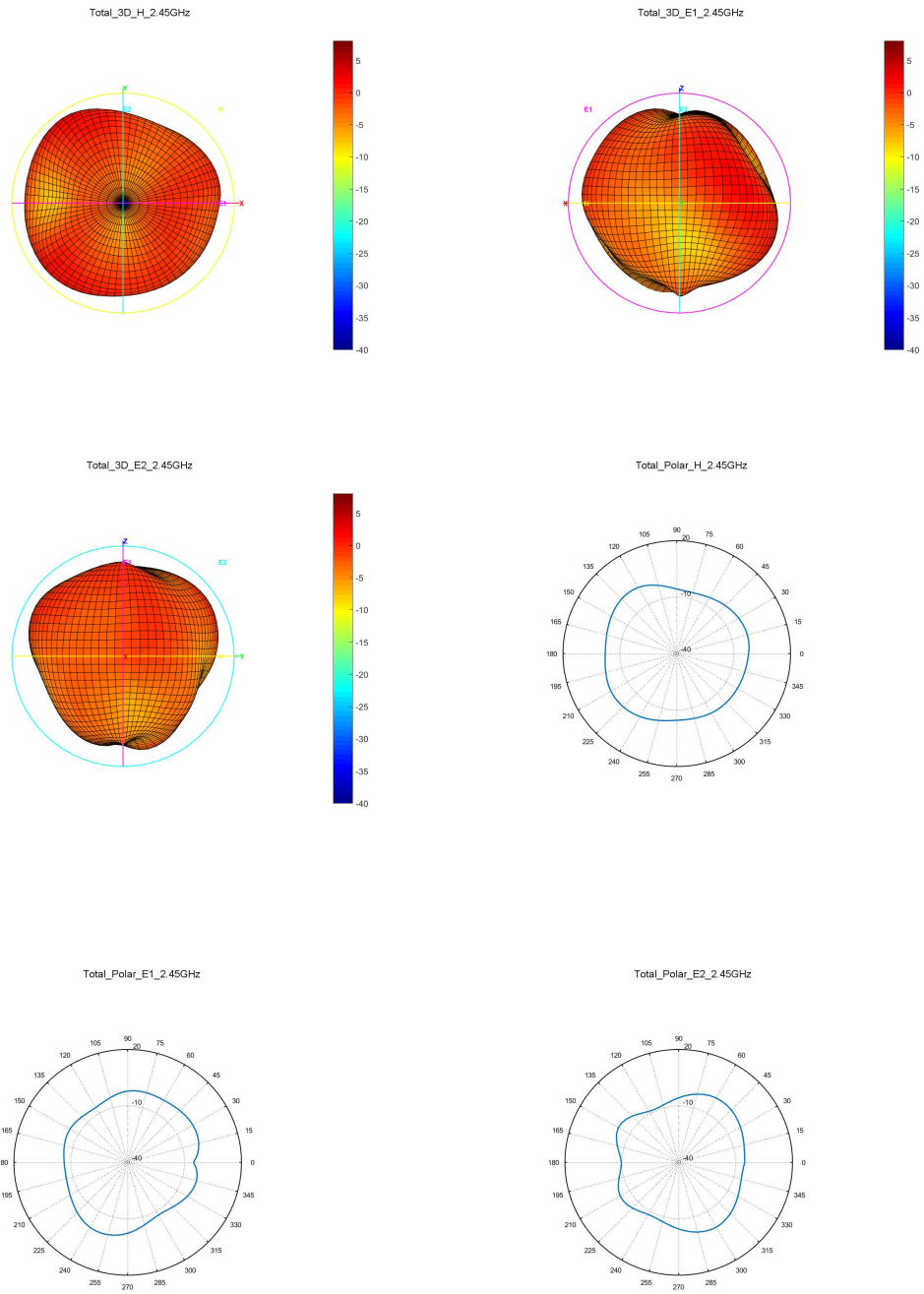


Total\_Polar\_E1\_2.4GHz



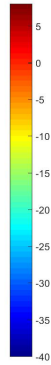
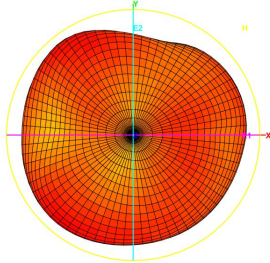
Total\_Polar\_E2\_2.4GHz



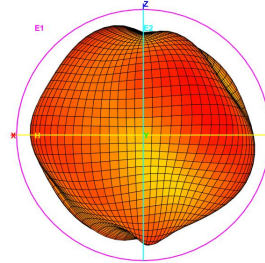




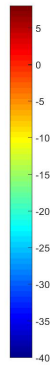
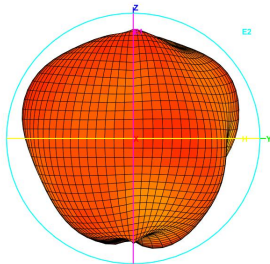
Total\_3D\_H\_2.5GHz



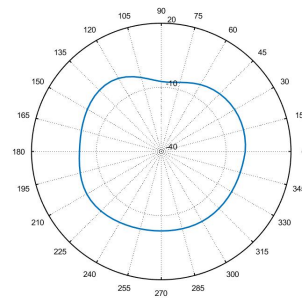
Total\_3D\_E1\_2.5GHz



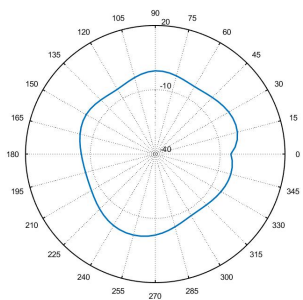
Total\_3D\_E2\_2.5GHz



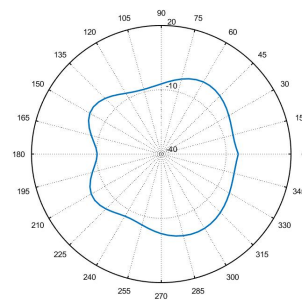
Total\_Polar\_H\_2.5GHz



Total\_Polar\_E1\_2.5GHz



Total\_Polar\_E2\_2.5GHz





### Material RoHS conformity declaration form

This is to certify that the delivery to your company's components, raw materials, auxiliary materials used and the additives in the production engineering are accord with RoHS environmental requirements of the restrictions on the use of hazardous substances directive (RoHS directive 2011/65 / EU)

About components used raw materials, packaging materials, auxiliary materials and additives used in the production process such as composition of the report is as follows:

Component /Part Name	Material Composition	ICP report #	Test Org.	Test Date	Content of harmful substances (ppm)						PASS?
					Cd	Pb	Hg	Cr <sup>6+</sup>	PBB	PBDE	PASS
FPC	FPC	FTS2302160201-01C1	SGS	23/02/20	ND	ND	ND	ND	ND	ND	PASS
Plastic bracket	ABS	CANPC23001081808	SGS	23/03/24	ND	ND	ND	ND	ND	ND	PASS