

JMGO Sample Confirmation Letter

Supplier Name: SHENZHEN YINGJIACHUANG TECHNOLOGY ELECTRONIC CO. LTD

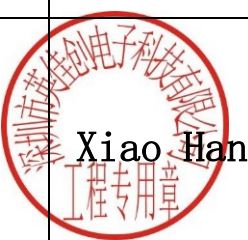
Material Name: WiFi2 2.4G/5.8G Black FPC built-in Antenna (K93A)

Material No.: /

Material Description: WiFi2 2.4G/5.8G Black FPC built-in Antenna (K93A)

Version: A0

Drawing Version: A0

Supplier Approved This needs to be stamped, and each acknowledgment letter needs to be stamped with a riding seal.			Shenzhen Holatek Approved			
R&D/Engineering	Quality	Approved	Product Center	R&D	Supply-Chain Center	Quality Management Department
Yin FeiJie	Yang YunGang	 Xiao Han				

Address: Building C, Hongyu Guangming Valley, No. 11, Shiwei Community, Matian Office, Guangming District, Shenzhen

Phone: +86-755-27810060/23192199

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3	Product drawings
4	Specification
5	Process Flow Diagram
6	BOM list
7	Performance testing reports
8	SGS Environmental Protection Report for Raw Materials

Product drawings:

A				B				C				D				E				F				G							
RoHS																REV				DATE				DESCRIPTION				NAME			
																A0				2023-12-12				新版发行				廖飞杰			
1																A1															
1. 13黑色线 1代线槽 5±2 蓝色热缩管 *280±5																															
14. 3±0.3 44.8±0.3 手撕位																															
要求: 1. 成品须100%测试导通OK 2. 成品须100%全检OK. 3. 采用环保制程. 成品 4. 符合ROHS要求. 5. 未注公差请以一般公差为准. 6. *为重点标注尺寸.																															
																外箱须贴物料标示卡 与ROHS标签各1PCS															
频率范围(Frequency Range) 2400-2500/5150-5850MHz 增益 (Gain) 2.4@ 1.5dBi, 5dBi/5.8@ 3.0dBi, 5dBi 电压驻波比(VSWR) <1.92 极化 (Polarization) Linear, Vertical 最大功率(Max power rating) 50W 特性阻抗 (Impedance) 50Ω																															
深圳市英佳创电子科技有限公司 SHENZHEN YINGJIAKUANG TECHNOLOGY ELECTRONIC CO.,LTD																															
零件名称 (PART NAME) 板设图 产品规格 WiFi2 黑色FPC内置天线 规格 120 品牌 方文铸 物料 APPH.																															
单位 (UNIT) mm 比例 (SCALE) 1:1 版本 (REV) A0 日期 (DATE) 2023-12-12																															
产品规格 XD, 1.1 漏感线 总长L=280MM 产品料号 (PRODUCT NO.) YJC-6N280-803 审核日期 (CHECKING DATE) 2023-12-12																															
图例 1. 13黑色线 1代线槽 5±2 蓝色热缩管 *280±5																															
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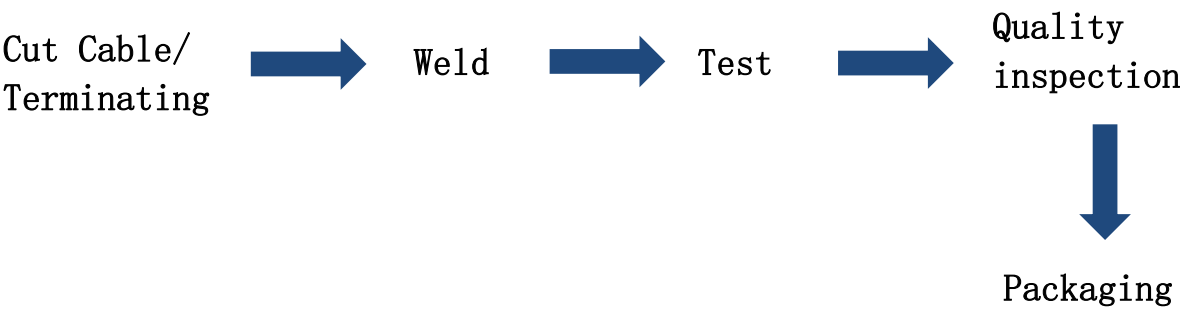
Antenna technology parameters:

Electrical Specifications	
Frequency Range	2400-2500/5150-5850MHz
VSWR	<1.92
Input Impedance	50 Ω
Direction	All
Gain(2.4G)	1.7dBi
Gain(5.1G)	3.3dBi
Gain(5.8G)	3.2dBi
Mechanical Specifications	
Cable Color	Black
Input connector	XD
Cable length	280mm(Total length)
Working Temperature	-20℃~+70℃
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 ℃ ~ + 70 ℃ 2. Relative humidity of 45% to 85% 3. Air pressure is 86 kpa to 106 kpa	Electrical and mechanical properties is normal
High and low temperature test	Between 70 ℃ and -20 ℃ 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 ℃. 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	Vibration frequency range: 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

Process Flow Diagram



BOM list

FPC、Cable、Terminal、PE packaging bag、Carton

Performance testing reports:

Antenna physical image:



Antenna performance test chart:



Frequency (MHZ)	2400	2450	2500	5150	5725	5850
VSWR (dB)	1.52	1.61	1.57	1.22	1.39	1.27

WIFI2 and BT isolation test diagram



WIFI2 and WIFI1 isolation test diagram

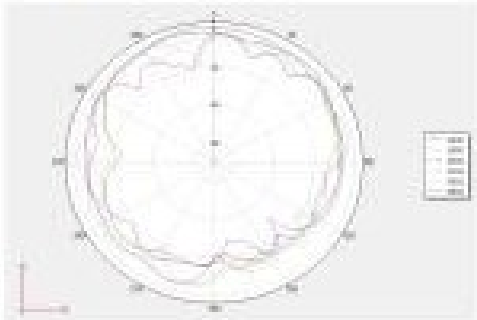


Frequency (MHz)	2400	2450	2500	5150	5725	5850
WIFI1 and WIFI2 isolation (dB)	-24	-20	-16	-30	-27	-27
WIFI2 and BT isolation (dB)	-28	-29	-34	-39	-39	-37

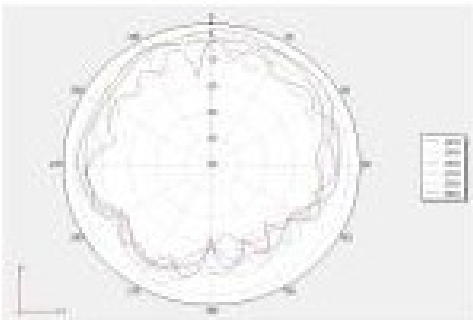
2D、3D test data (WIFI 2):

Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	50.35	1.39
2410MHz	54.02	1.47
2420MHz	57.46	1.68
2430MHz	54.41	1.57
2440MHz	55.9	1.61
2450MHz	54.67	1.52
2460MHz	55.98	1.62
2470MHz	56.36	1.70
2480MHz	58.16	1.69
2490MHz	55.89	1.58
2500MHz	56.89	1.70
5150MHz	47.48	3.3
5250MHz	45.7	3.1
5750MHz	46.06	3.2
5850MHz	45.72	3.05

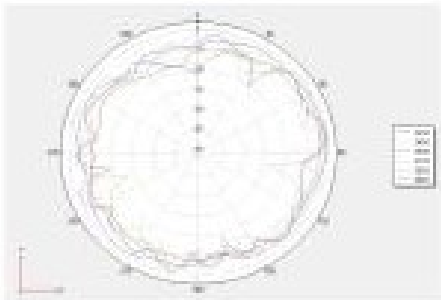
Phi 0 2D:



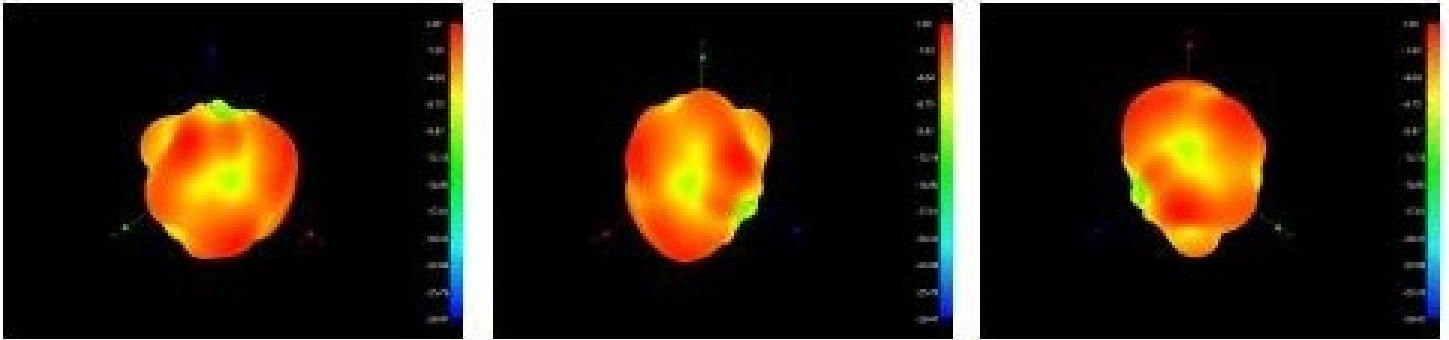
Phi 90 2D



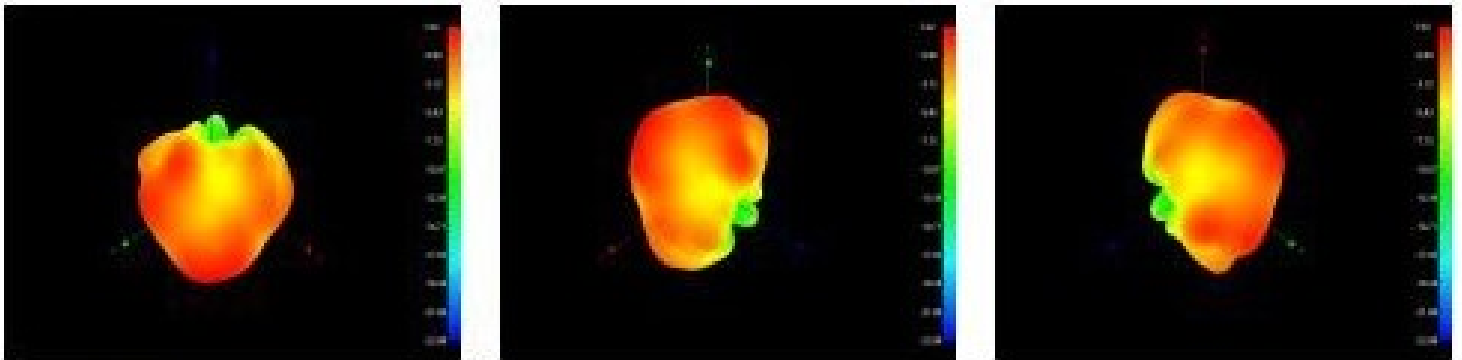
Theta 90 2D



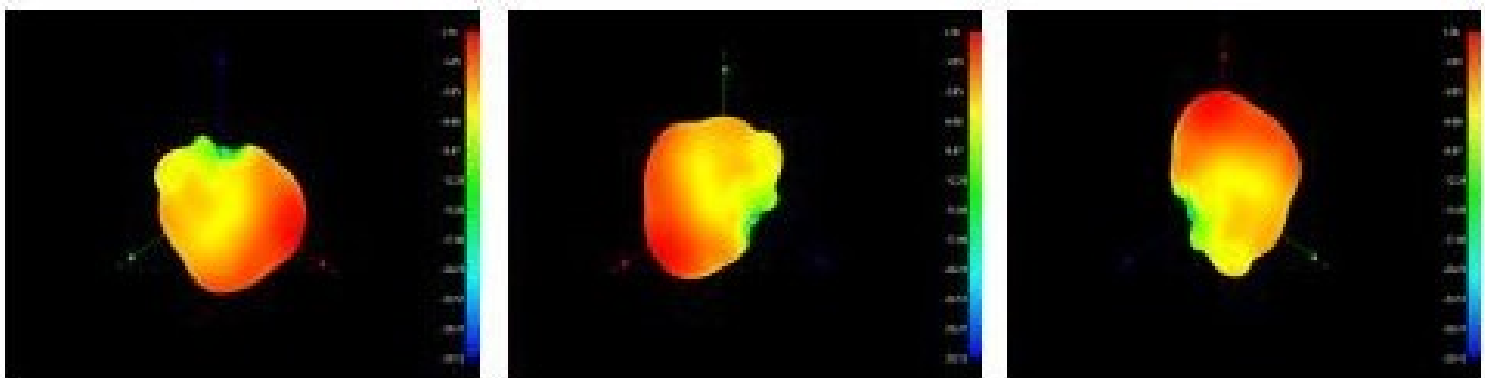
3D 2400:



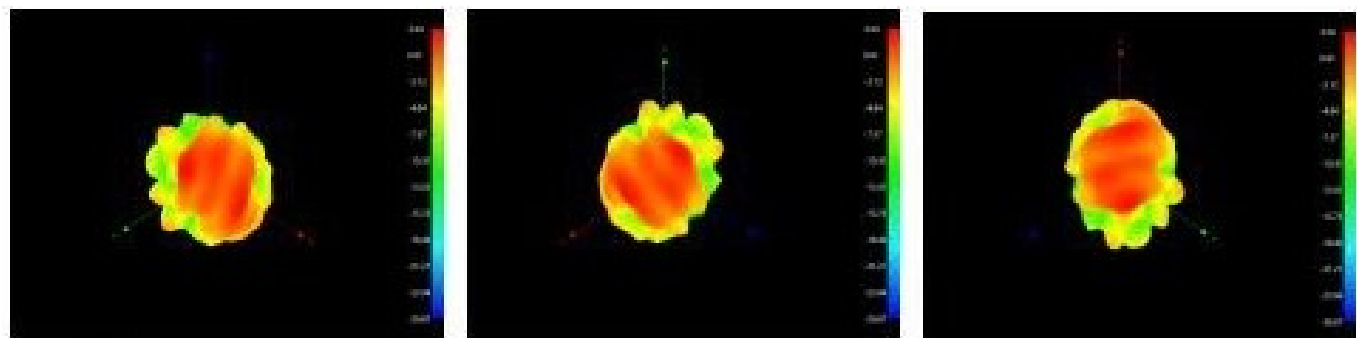
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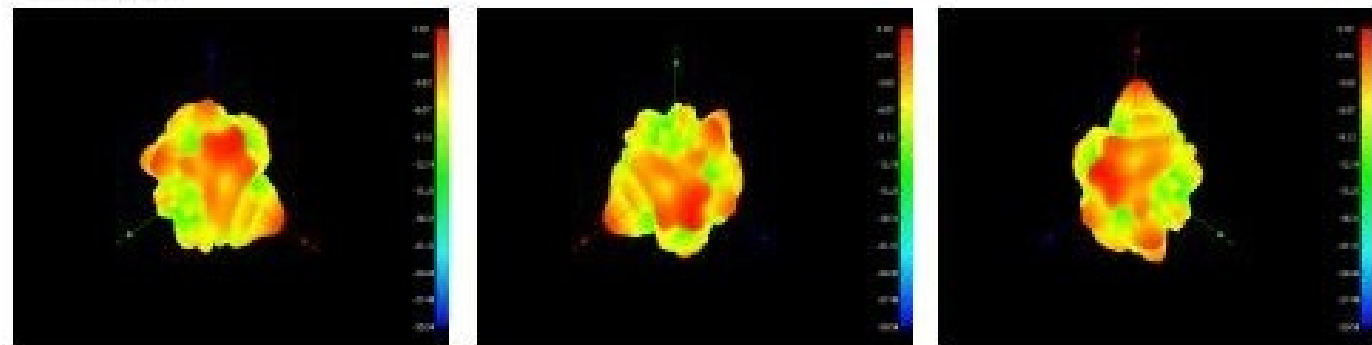
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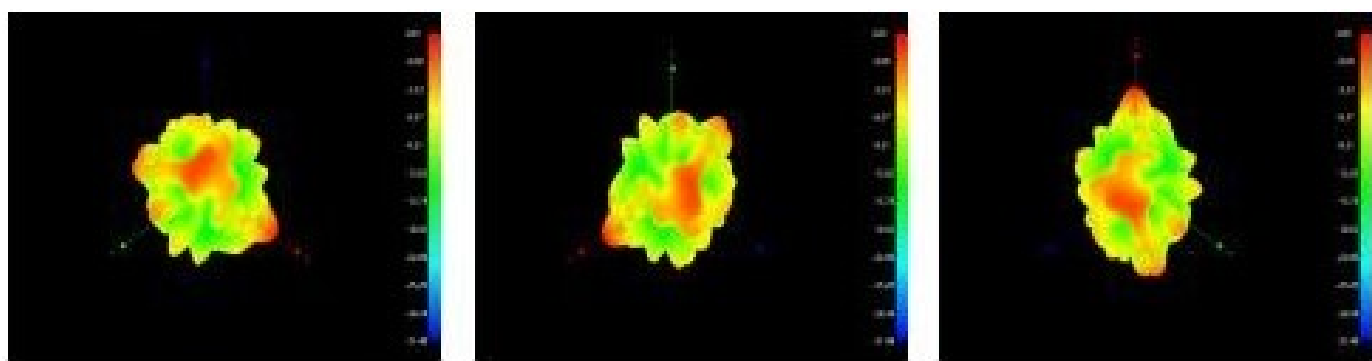
3D 5150:



3D 5500:



3D 5850:



OTA active test data:

Item	Measurement	Band	Channel	Frequency	Total
1	TRP	WIFI_B (11M)	1	2412	12.63
2	TRP	WIFI_B (11M)	6	2437	12.34
3	TRP	WIFI_B (11M)	11	2462	12.37
4	TIS(EIRP)	WIFI_B (11M)	1	2412	-82.74
5	TIS(EIRP)	WIFI_B (11M)	6	2437	-81.4
6	TIS(EIRP)	WIFI_B (11M)	11	2462	-83.03
7	TRP	WIFI_G (54M)	1	2412	12.66
8	TRP	WIFI_G (54M)	6	2437	12.77
9	TRP	WIFI_G (54M)	11	2462	13.54
10	TIS(EIRP)	WIFI_G (54M)	1	2412	-69.15
11	TIS(EIRP)	WIFI_G (54M)	6	2437	-70.45
12	TIS(EIRP)	WIFI_G (54M)	11	2462	-70.44
13	TRP	WIFI_N_ISM (65M)	1	2412	12.64
14	TRP	WIFI_N_ISM (65M)	6	2437	11.89
15	TRP	WIFI_N_ISM (65M)	11	2462	13.01
16	TIS(EIRP)	WIFI_N_ISM (65M)	1	2412	-67.7
17	TIS(EIRP)	WIFI_N_ISM (65M)	6	2437	-68.85
18	TIS(EIRP)	WIFI_N_ISM (65M)	11	2462	-69.27
19	TRP	WIFI_A (54M)	36	5180	14.14
20	TRP	WIFI_A (54M)	149	5745	14.01
21	TRP	WIFI_A (54M)	165	5825	14.25
22	TIS(EIRP)	WIFI_A (54M)	36	5180	-74.94
23	TIS(EIRP)	WIFI_A (54M)	149	5745	-73.17
24	TIS(EIRP)	WIFI_A (54M)	165	5825	-73.9

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 engine ord with RoHS environmental requirements of the restrictions on the use of hazardous substances directive (RoHS directive 2011/65 / EC)											
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 ⁶⁺	PBB	PBDE	PASS
FPC	FPC	FTS2302160201-01C1	SGS	23/02/20	ND	ND	ND	ND	ND	ND	PASS
Wire	Series Coaxial Cables	CANEC2301851703	SGS	23/02/23	ND	ND	ND	ND	ND	ND	PASS
Terminal	Copper	CANEC2301145810	SGS	23/02/08	ND	5	ND	ND	ND	ND	PASS
	Au plating	A2230400553101001E	CTI	23/08/12	ND	ND	ND	ND	ND	ND	PASS
	Rubber core	A2230035037101002E	SGS	23/02/06	ND	ND	ND	ND	ND	ND	PASS
Environm entally friendly Tin wire	Environmen tally friendly Tin wire	SHAEC23006357502	SGS	23/05/23	ND	43	ND	ND	ND	ND	PASS

JMGO Sample Confirmation Letter

Supplier Name: SHENZHEN YINGJIACHUANG TECHNOLOGY ELECTRONIC CO. LTD

Material Name: WiFi1 2.4G/5.8G Black FPC built-in Antenna (K93A)

Material No.: /

Material Description: /

Version: A0

Drawing Version: A0

Supplier Approved This needs to be stamped, and each acknowledgment letter needs to be stamped with a riding seal.			Shenzhen Holatek Approved			
R&D/Engineering	Quality	Approved	Product Center	R&D	Supply-Chain Center	Quality Management Department
Yin FeiJie	Yang YunGang	 Xiao Han				

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Product drawings:

[illegible]

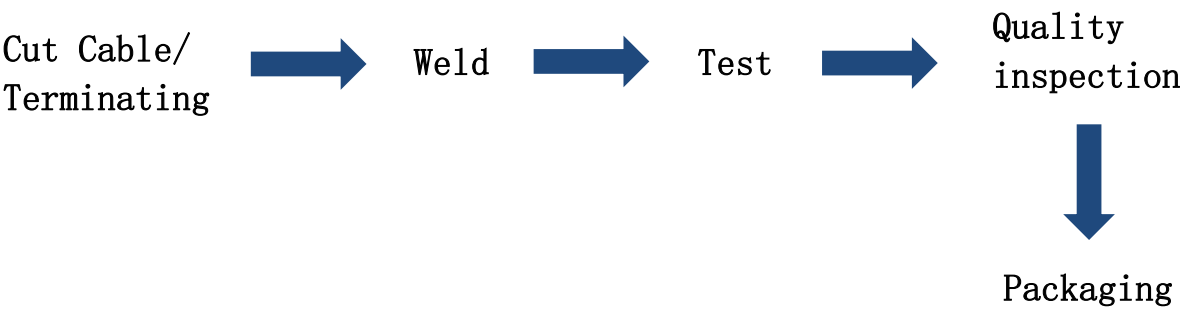
Specification:

Electrical Specifications	
Frequency Range	2400-2500/5150-5850MHz
VSWR	<1.92
Input Impedance	50 Ω
Direction	All
Gain(2.4G)	1.8 dBi
Gain(5.1G)	3.3 dBi
Gain(5.8G)	3.3 dBi
Mechanical Specifications	
Cable Color	Black
Input connector	XD
Cable length	365mm (Total Length)
Working Temperature	-20℃~+70℃
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 ℃ ~ + 70 ℃ 2.Relative humidity of 45% to 85% 3.Air pressure is 86 kpa to 106 kpa	Electrical and mechanical properties is normal
High and low temperature test	Between 70 ℃ and -20 ℃ 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 ℃. 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	Vibration frequency range: 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

Process Flow Diagram



BOM list

FPC、Cable、Terminal、PE packaging bag、Carton

Performance testing reports:

Antenna physical image:



Antenna performance test chart:



Frequency (MHZ)	2400	2450	2500	5150	5725	5850
VSWR (dB)	1.24	1.36	1.47	1.32	1.48	1.29

WIFI 1 and WIFI 2 isolation test diagram



WIFI 1 and BT isolation test diagram

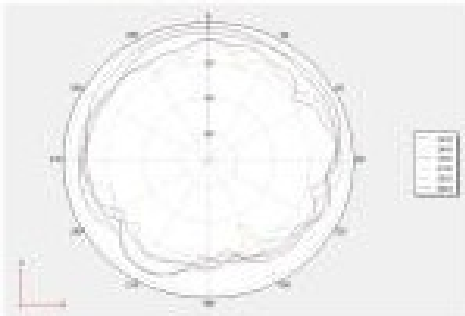


Frequency (MHz)	2400	2450	2500	5150	5725	5850
WIFI1 and BT isolation (dB)	-28	-30	-28	-34	-37	-36
WIFI1 and WIFI2 isolation (dB)	-24	-20	-16	-30	-27	-27

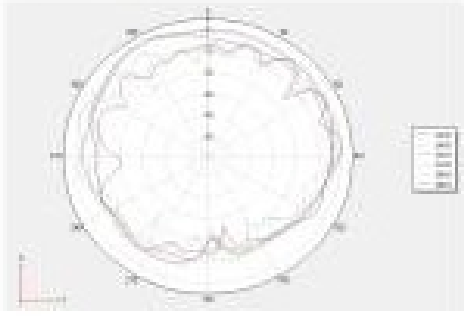
2D、3D test data (WIFI 1):

Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	56.06	1.80
2410MHz	54.21	1.66
2420MHz	54.28	1.55
2430MHz	55.48	1.71
2440MHz	55.4	1.62
2450MHz	56.65	1.76
2460MHz	54.22	1.51
2470MHz	55.31	1.55
2480MHz	53.64	1.49
2490MHz	54.59	1.57
2500MHz	55.4	1.74
5150MHz	49.11	3.3
5250MHz	47.99	3.17
5750MHz	48.92	3.3
5850MHz	48.42	3.23

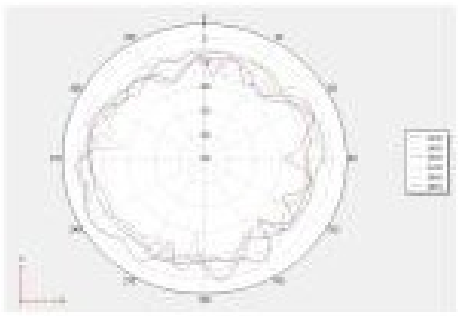
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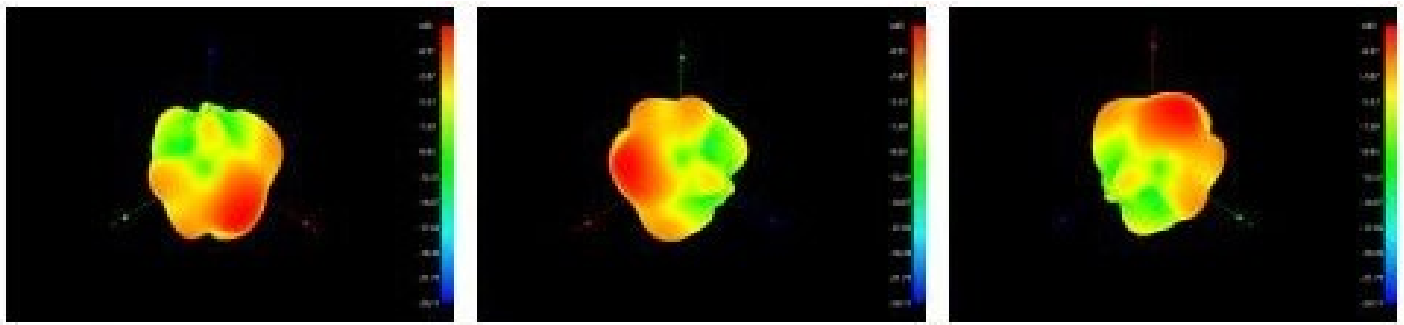
Phi 90 2D



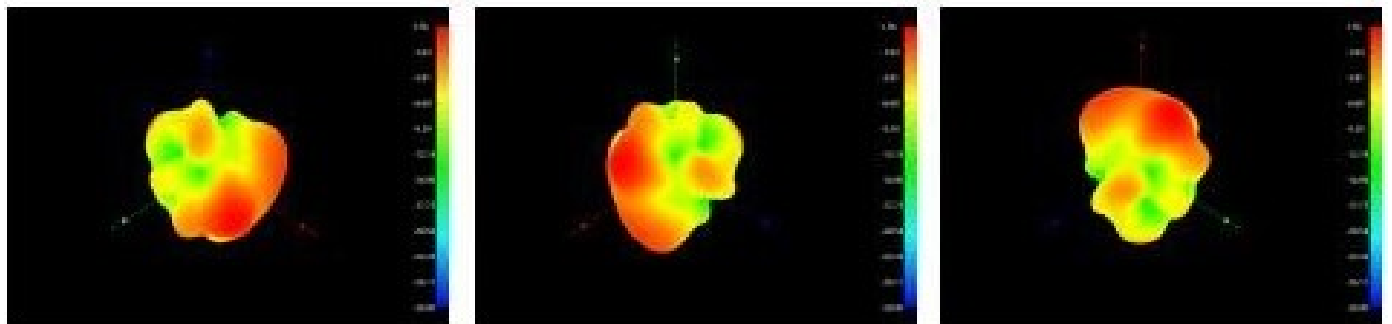
Theta 90 2D



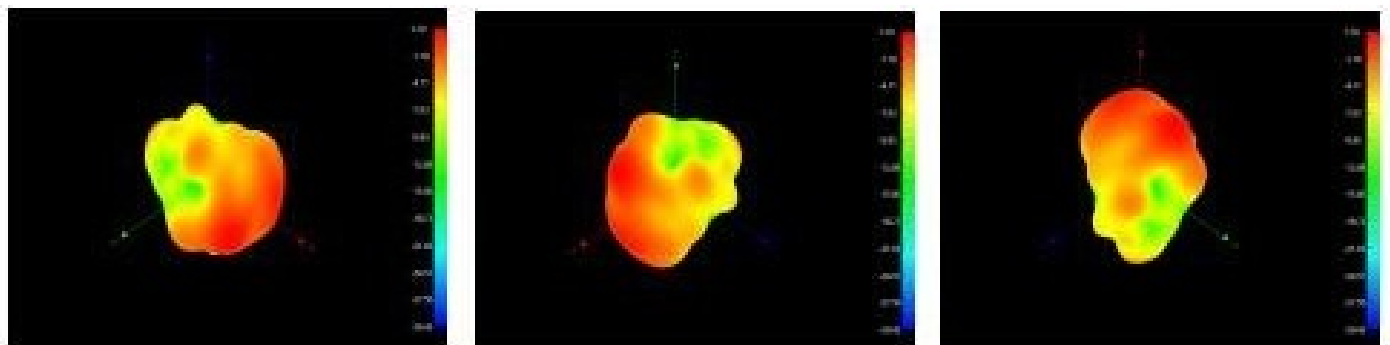
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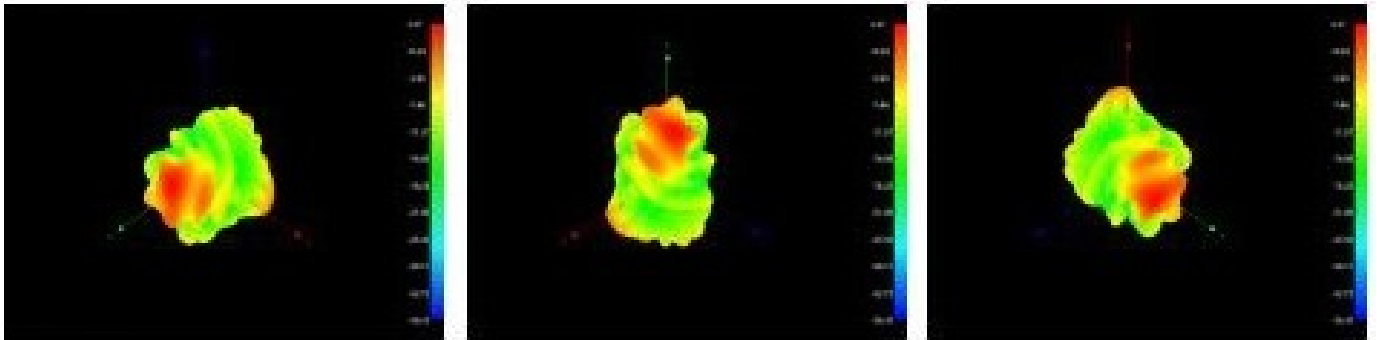
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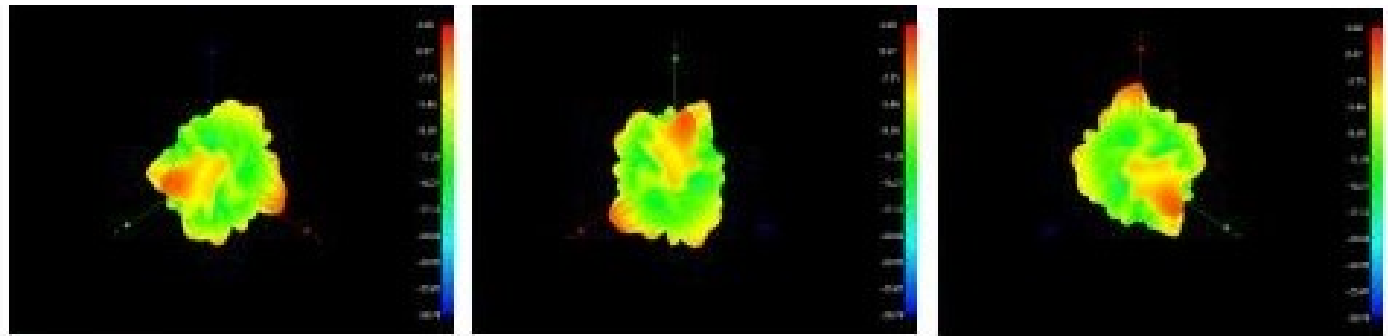
3D 2500:



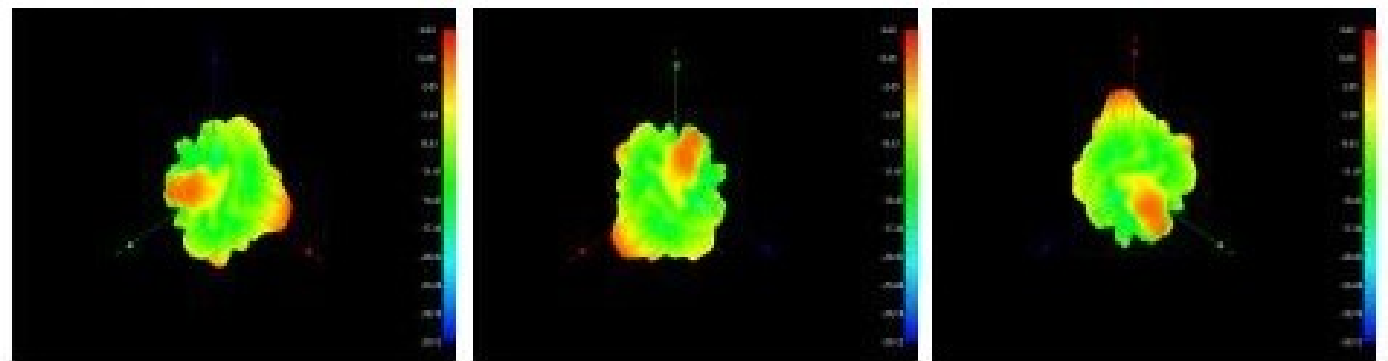
3D 5150:



3D 5500:



3D 5850:



OTA active test data:

Item	Measurement	Band	Channel	Frequency	Total
1	TRP	WIFI_B (11M)	1	2412	12.63
2	TRP	WIFI_B (11M)	6	2437	12.34
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5	TIS(EIRP)	WIFI_B (11M)	6	2437	-81.4
6	TIS(EIRP)	WIFI_B (11M)	11	2462	-83.03
7	TRP	WIFI_G (54M)	1	2412	12.66
8	TRP	WIFI_G (54M)	6	2437	12.77
9	TRP	WIFI_G (54M)	11	2462	13.54
10	TIS(EIRP)	WIFI_G (54M)	1	2412	-69.15
11	TIS(EIRP)	WIFI_G (54M)	6	2437	-70.45
12	TIS(EIRP)	WIFI_G (54M)	11	2462	-70.44
13	TRP	WIFI_N_ISM (65M)	1	2412	12.64
14	TRP	WIFI_N_ISM (65M)	6	2437	11.89
15	TRP	WIFI_N_ISM (65M)	11	2462	13.01
16	TIS(EIRP)	WIFI_N_ISM (65M)	1	2412	-67.7
17	TIS(EIRP)	WIFI_N_ISM (65M)	6	2437	-68.85
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					Cd	Pb	Hg	Cr ⁶⁺	PBB	PBDE	PASS
FPC	FPC	FTS2302160201-01C1	SGS	23/02/20	ND	ND	ND	ND	ND	ND	PASS
Wire	Series Coaxial Cables	CANEC2301851703	SGS	23/02/23	ND	ND	ND	ND	ND	ND	PASS
Terminal	Copper	CANEC2301145810	SGS	23/02/08	ND	5	ND	ND	ND	ND	PASS
	Au plating	A2230400553101001E	CTI	23/08/12	ND	ND	ND	ND	ND	ND	PASS
	Rubber core	A2230035037101002E	SGS	23/02/06	ND	ND	ND	ND	ND	ND	PASS
Environm entally friendly Tin wire	Environmen tally friendly Tin wire	SHAEC23006357502	SGS	23/05/23	ND	43	ND	ND	ND	ND	PASS

JMGO Sample Confirmation Letter

Supplier Name: SHENZHEN YINGJIACHUANG TECHNOLOGY ELECTRONIC CO. LTD

Material Name: BT 2.4G Black FPC built-in Antenna (K93A)

Material No.: /

Material Description: BT 2.4G Black FPC built-in Antenna (K93A)

Version: A0

Drawing Version: A0

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					REV	DATE	DESCRIPTION	NAME																																
					M0	2023-12-12	新版发行	耿飞杰																																
					A1																																			
RoHS																																								
1. I3黑色线 代结端 13.2±0.3 49±0.3 手翻位																																								
<table border="1"><tr><td>频率范围(Frequency Range)</td><td>2400-2500MHz</td></tr><tr><td>增益 (Gain)</td><td>1.5±0.5dBi</td></tr><tr><td>电压驻波比(VSWR)</td><td><1.92</td></tr><tr><td>极化 (Polarization)</td><td>Linear, Vertical</td></tr><tr><td>最大功率(Max power rating)</td><td>50W</td></tr><tr><td>特性阻抗 (Impedance)</td><td>50Ω</td></tr></table>									频率范围(Frequency Range)	2400-2500MHz	增益 (Gain)	1.5±0.5dBi	电压驻波比(VSWR)	<1.92	极化 (Polarization)	Linear, Vertical	最大功率(Max power rating)	50W	特性阻抗 (Impedance)	50Ω																				
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要求：1. 成品须100%测试导通OK 2. 成品须100%全检OK。 3. 采用环保制程。成品 4. 符合ROHS要求。 5. 未注公差请以一般公差为准。 6. *为重点标注尺寸。																																								
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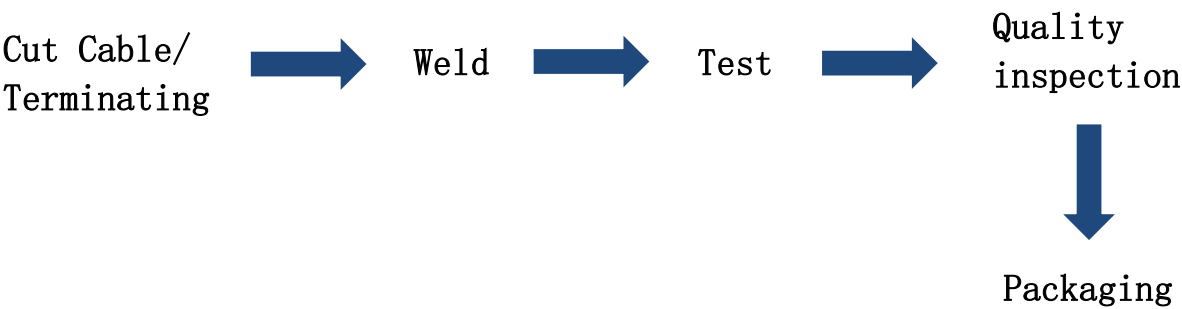
Specification:

Electrical Specifications	
Frequency Range	2400-2500MHz
VSWR	<1.92
Input Impedance	50 Ω
Direction	All
Gain	1.80 dBi
Mechanical Specifications	
Cable Color	Black
Input connector	XD
Cable length	400mm (Total Length)
Working Temperature	-20℃~+70℃
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 ℃ ~ + 70 ℃ 2. Relative humidity of 45% to 85% 3. Air pressure is 86 kpa to 106 kpa	Electrical and mechanical properties is normal
High and low temperature test	Between 70 ℃ and -20 ℃ 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 ℃. 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	Vibration frequency range: 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

Process Flow Diagram



BOM list

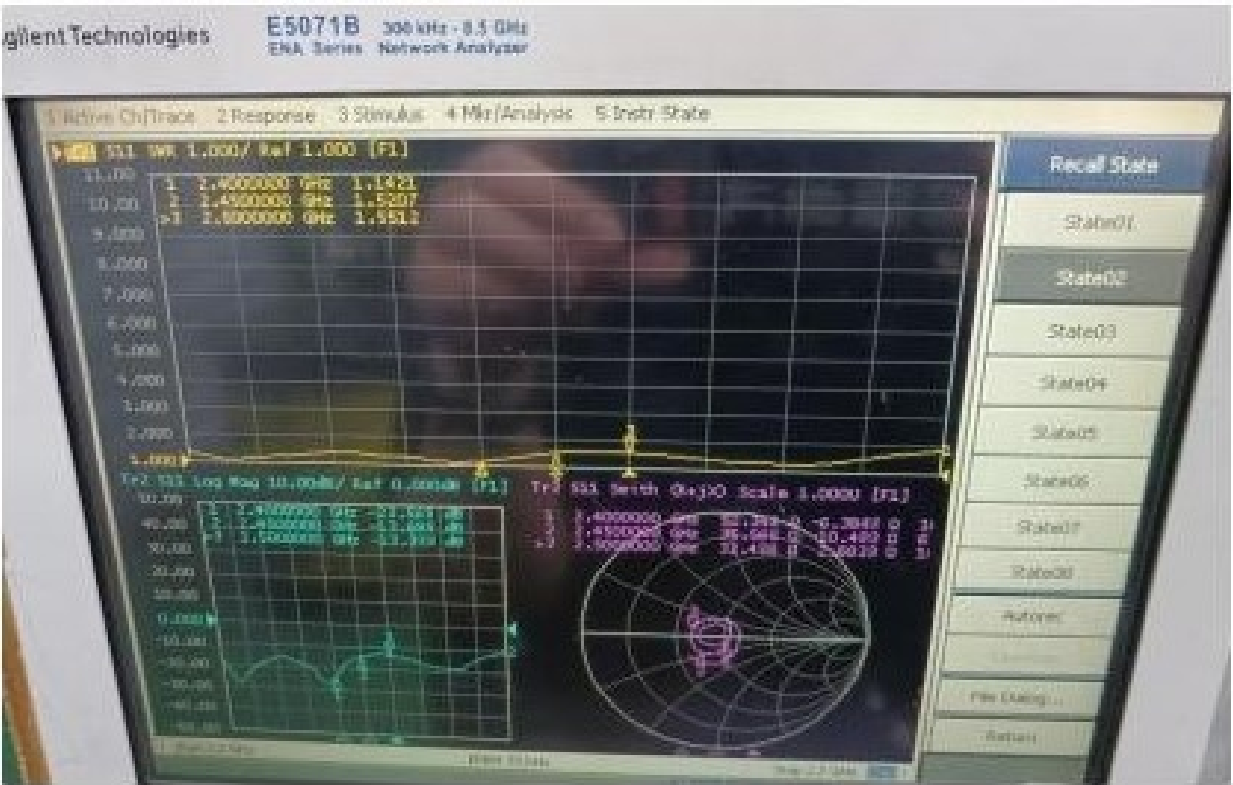
FPC、Cable、Terminal、PE packaging bag、Carton

Performance testing reports:

Antenna physical image:



Antenna performance test chart:



Frequency (MHZ)	2400	2450	2500
VSWR (dB)	1.14	1.52	1.55

BT and WiFi 1 isolation test diagram



BT and WiFi 2 isolation test diagram

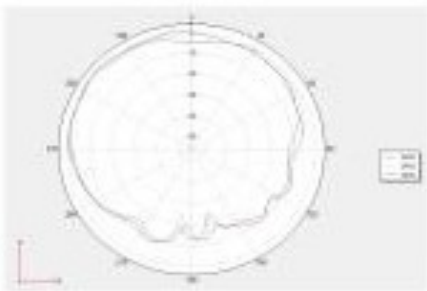


Frequency (MHz)	2400	2450	2500	5150	5725	5850
WIFI1 and BT isolation (dB)	-28	-30	-28	-34	-37	-36
WIFI2 and BT isolation (dB)	-28	-29	-34	-39	-39	-37

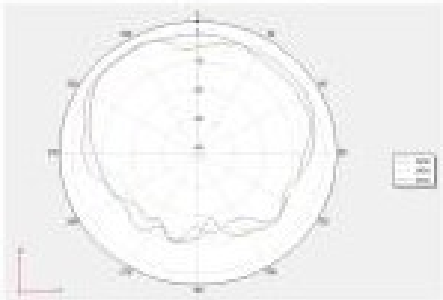
2D、3D test data (BT):

Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	56.78	1.79
2410MHz	55.54	1.64
2420MHz	54.98	1.58
2430MHz	54.19	1.41
2440MHz	55.67	1.66
2450MHz	54.59	1.48
2460MHz	54.65	1.43
2470MHz	57.08	1.80
2480MHz	55.24	1.59
2490MHz	53.36	1.43
2500MHz	55.81	1.68

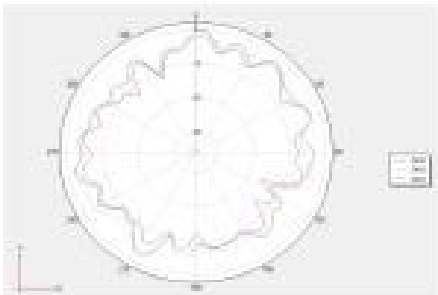
Phi 0 2D :



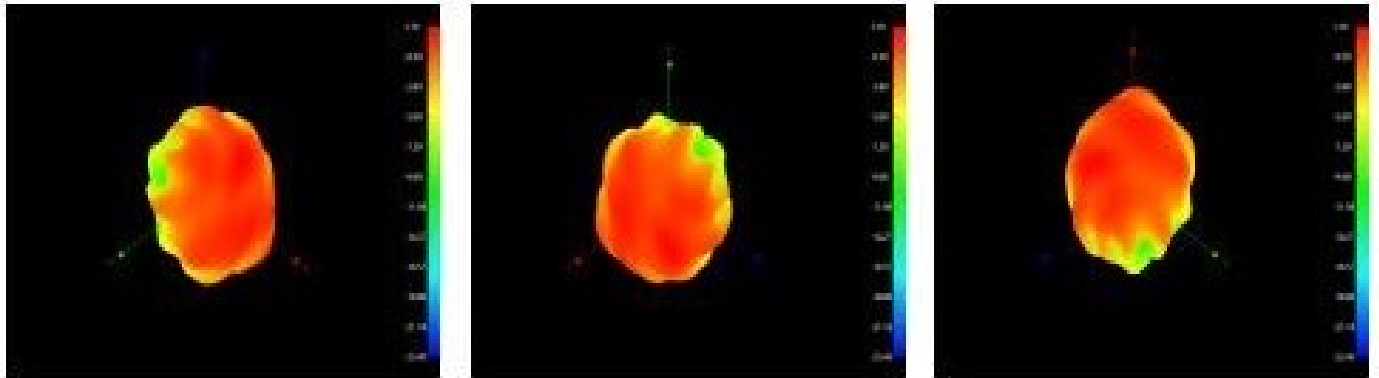
Phi 90 2D



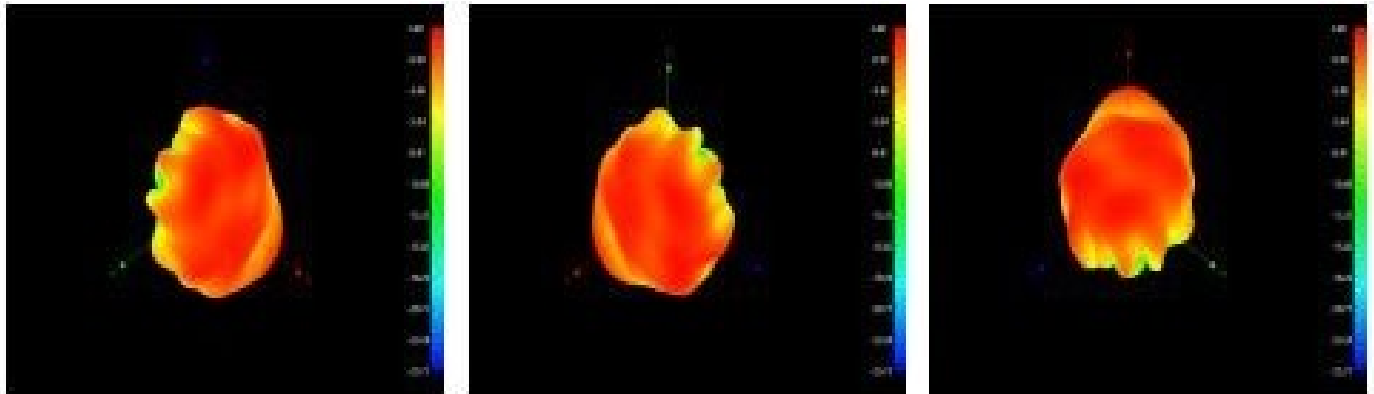
Theta 90 2D



3D 2400:



3D 2450:



3D 2500:



OTA active test data:

Item	Measurement	Band	Channel	Frequency	Total
1	TRP	BLUETOOTH	0	2402	4.15
2	TRP	BLUETOOTH	39	2441	4.47
3	TRP	BLUETOOTH	78	2480	4.4
4	TIS(EIRP)	BLUETOOTH	0	2402	-86.13
5	TIS(EIRP)	BLUETOOTH	39	2441	-85.92
6	TIS(EIRP)	BLUETOOTH	78	2480	-88.58
7	TRP	BLUETOOTH	0	2402	1.44
8	TRP	BLUETOOTH	39	2441	1.85
9	TRP	BLUETOOTH	78	2480	1.79
10	TIS(EIRP)	BLUETOOTH	0	2402	-86.06
11	TIS(EIRP)	BLUETOOTH	39	2441	-86.08
12	TIS(EIRP)	BLUETOOTH	78	2480	-87.93
13	TRP	BLUETOOTH	0	2402	1.47
14	TRP	BLUETOOTH	39	2441	1.91
15	TRP	BLUETOOTH	78	2480	1.81
16	TIS(EIRP)	BLUETOOTH	0	2402	-80.5
17	TIS(EIRP)	BLUETOOTH	39	2441	-79.24
18	TIS(EIRP)	BLUETOOTH	78	2480	-81.56

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 engine ord with RoHS environmental requirements of the restrictions on the use of hazardous substances directive (RoHS directive 2011/65 / EC)											
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 ⁶⁺	PBB	PBDE	PASS
FPC	FPC	FTS2302160201-01C1	SGS	23/02/20	ND	ND	ND	ND	ND	ND	PASS
Wire	Series Coaxial Cables	CANEC2301851703	SGS	23/02/23	ND	ND	ND	ND	ND	ND	PASS
Terminal	Copper	CANEC2301145810	SGS	23/02/08	ND	5	ND	ND	ND	ND	PASS
	Au plating	A2230400553101001E	CTI	23/08/12	ND	ND	ND	ND	ND	ND	PASS
	Rubber core	A2230035037101002E	SGS	23/02/06	ND	ND	ND	ND	ND	ND	PASS
Environm entally friendly Tin wire	Environmen tally friendly Tin wire	SHAEC23006357502	SGS	23/05/23	ND	43	ND	ND	ND	ND	PASS