

承認書

APPROVAL

客 户 :

品 名 规 格

DESCRIPTION:

FTY-01-FPC-WIFI-1.13 black-L80MM-IPEX

料 号

PART NO.:

客 户 料 号

CUS PART NO.:

日 期

D A T E:

2024. 11. 5

Shenchao Sample Signature

工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	业 务 SALES DEPARTMENT

客户承认签章

工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	采 购 PURCHASING DEPARTMENT

Contact phone number:

※ 承认书一式三份，惠蒙贵司承认签章

※ Approval in duplicate, please signed by your company.

Company: Shenzhen Shenchao Communication Electronics Co., Ltd

Address: 716 Maker Building, No. 72-6 Huanguan South Road, Xintian

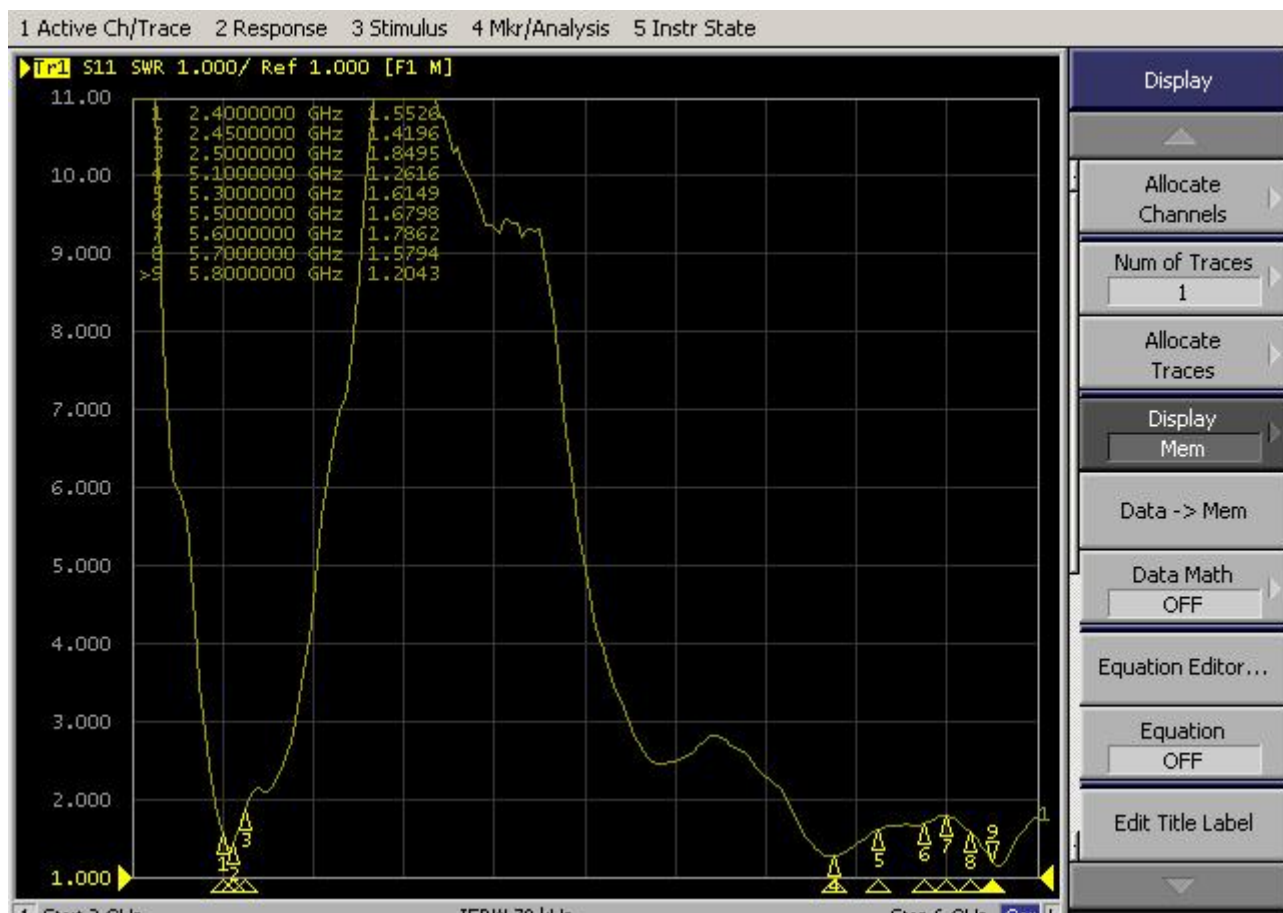
Community, Guanhu Street, Longhua District, Shenzhen

1.测试项目与设备/Test items and equipment

	测试项目/test project	设备/equipment
1. S11 参数 (S-parameter)	1. 回波损耗 (Return Loss) 2. 电压驻波比 (VSWR)	网络分析仪/Network Analyzer: Agilent E5071B HP 8753D
2. 有源测试 (Active)	1. 发射功率 (TRP) 2. 接收灵敏度 (TIS)	1. 暗室/darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2.综合测试仪/Comprehensive Tester: Agilent 8960 E5515B ×2 StarPoint SP6011
3.无源测试 (Passive)	1.天线增益 (Gain) 2.天线效率 (Efficiency)	1. 暗室/darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. 网络分析仪/Network Analyzer: Agilent E5071BHP 8753D



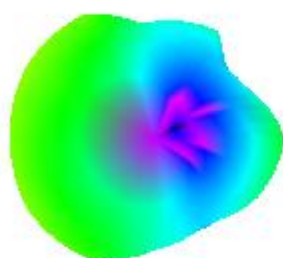
2. 天线性能/Antenna performance



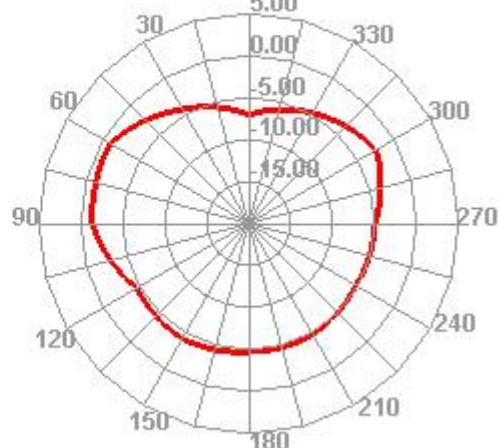
3. 天线增益与效率/Antenna gain and efficiency

Passive Test For WIFI										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	65.99	-1.8	2.99	0.84	35.629	30.365	2.99	-8.28	48.09	47.94
2410	61.32	-2.12	2.62	0.47	32.762	28.557	2.62	-8.32	48.07	47.87
2420	60.58	-2.18	2.52	0.37	32.121	28.457	2.52	-8.49	48.18	48
2430	61.75	-2.09	2.58	0.43	32.561	29.188	2.58	-9.08	48.17	47.99
2440	64.63	-1.9	2.73	0.58	34.122	30.503	2.73	-9.66	48.33	48.11
2450	66.86	-1.75	2.86	0.71	35.326	31.534	2.86	-9.93	48.44	48.14
2460	67.45	-1.71	2.92	0.77	35.514	31.938	2.92	-9.82	48.41	48.06
2470	68.53	-1.64	3.02	0.87	35.718	32.817	3.02	-9.44	48.49	48.11
2480	67.12	-1.73	2.94	0.79	34.493	32.624	2.94	-11.1	48.63	48.18
2490	64.57	-1.9	2.74	0.59	32.811	31.763	2.74	-12.94	48.76	48.29
2500	63.95	-1.94	2.7	0.55	32.027	31.926	2.7	-14.21	48.69	48.16

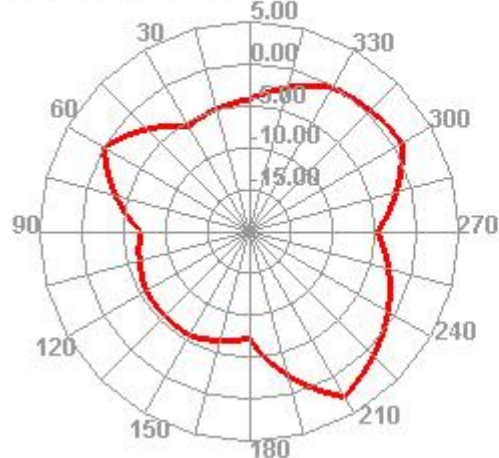
2400.000MHz



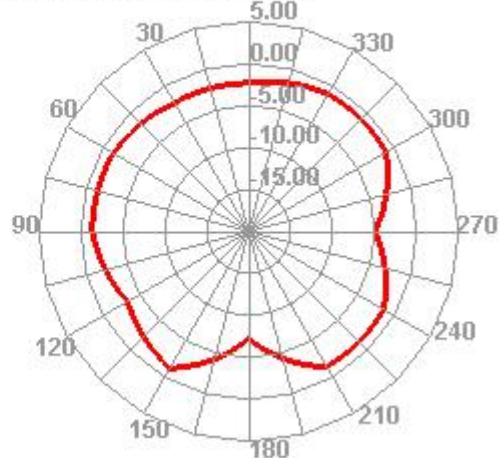
2400.000MHz H



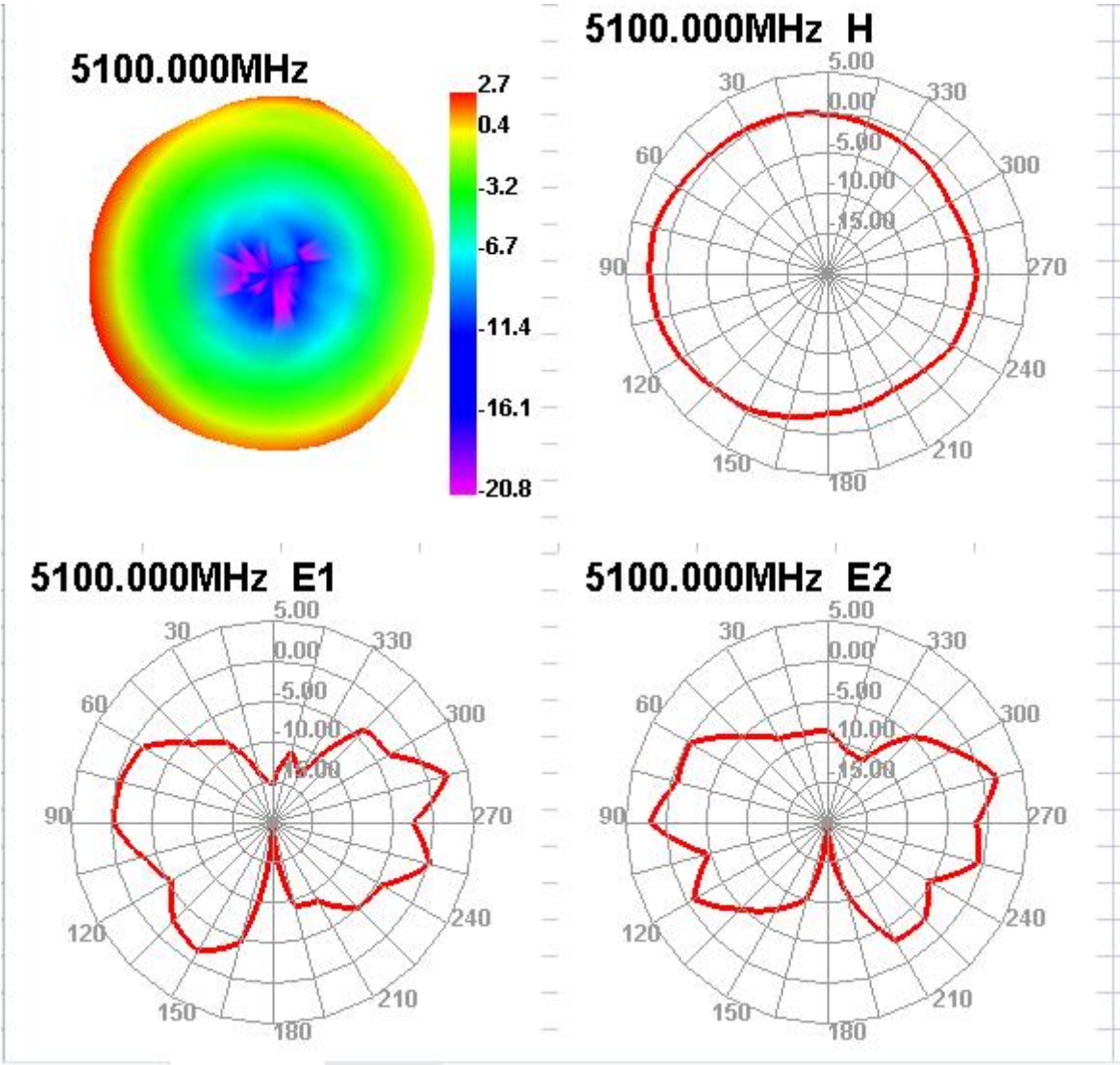
2400.000MHz E1



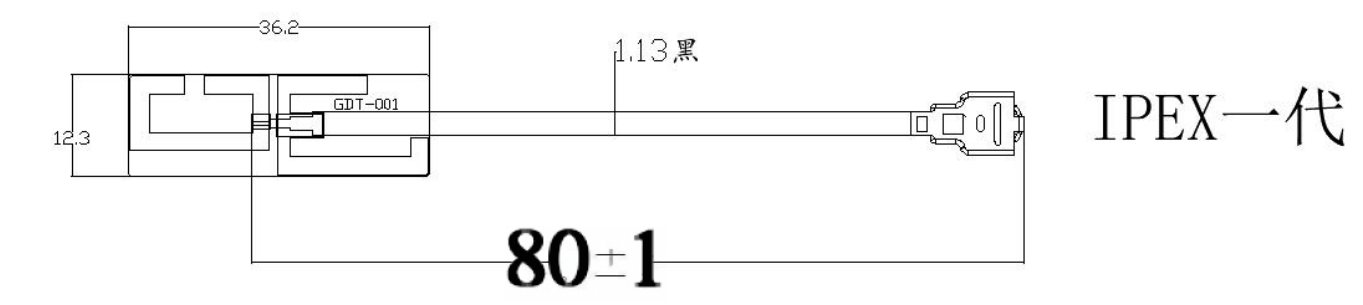
2400.000MHz E2



Passive Test For WIFI-5G										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
5100	61.02	-2.15	2.72	0.57	33.984	27.04	2.72	-20.76	57.95	57.06
5200	61.19	-2.13	2.43	0.28	36.99	24.203	2.43	-21.21	57.55	56.83
5300	71.53	-2.71	2.41	0.26	33.692	19.835	2.41	-21.69	57.16	56.32
5400	66.76	-2.46	3.01	0.73	36.868	19.895	3.01	-21.21	58.32	57.48
5500	64.11	-2.67	2.99	0.04	34.499	19.615	2.99	-15.44	58.91	57.66
5600	62.53	-2.8	2.49	0.34	32.491	20.034	2.49	-21.14	59.51	58.82
5700	64.93	-2.6	2.94	0.79	32.568	22.365	2.94	-24.93	60.54	59.93
5825	58.62	-3.7	2.28	0.13	25.474	17.151	2.28	-23.04	61.14	60.57



4.天线结构图/Antenna structure diagram



电器技术参数/Electrical technical parameters			
电 性 能 指 标		Electrical Specifications	
频率范围	2400~2500/5100~5825MHz	Frequency Range	2400~2500/5100~5825MHz
电压驻波比	≤2.0	VSWR	≤2.0
输入阻抗	50 Ω	Input Impedance	50 Ω
增益	BT,2.4GWIFI:3.02dBi 5.2GWIFI:2.72dBi,5.8GWIFI:2.94dBi	Gain	BT,2.4GWIFI:3.02dBi 5.2GWIFI:2.72dBi,5.8GWIFI:2.94dBi
辐射方向	全向	Radiation direction	omnidirectional
天线类型	FPC 天线	Antenna type	FPC Antenna