

Antenna Approval Sheet

For

13233002 ANT WIFI/BT

Antenna,FPC,Q3BU

Customer		Project	
Band	WiFi 2.4GHZ/5.2GHZ/5.8GHZ		
ZC PN			
Version		Data	

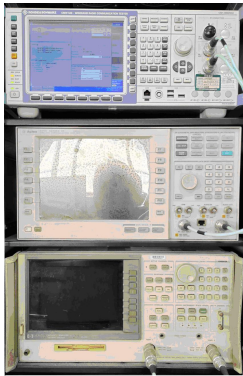
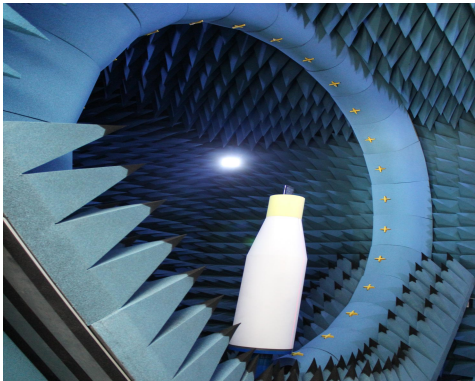
RF		ME	
Checked By			
Confirmed By			
Cust Confirm			

1. Electrical Specification:

Antenna types	13233002 ANT WIFI/BT Antenna, FPC, Q3BU
Frequency	2400-2500 MHz, 5150-5850MHZ
Impedance	50 Ω
VSWR	< 2.0
Gain	2.4GHZ 2.84 dbi, 5.2GHZ 1.16dbi, 5.8GHZ 3.43dbi
Efficiency	>35 %
Antenna Material	FPCB+Coaxial Cable
Connector Type	0.81 MHF-3-Plug

2. Test Condition

2.1	TEST ITEM	TESTING INSTRUMENT	REMARKS
1.PASSIVE TEST	1.TRP 2.TIS	1. 3D microwave darkroom (Satimo SG24) 2. Comprehensive test instrument (CMW500) 3. Agilent 8960 E5515C	
2.ACTIVE TEST	1. Antenna Gain 2. S.W.R 3. Return Loss 4. Radiation Pattern	1. Network analyzer (R&S ZVL6) 2. Network analyzer (HP 8753D)	



2.2 Matching Circuit The matching circuit was Default

3. RF Performance –WIFI Antenna

3.1 Active test data

Item	Standard	Band	Channel	Frequency	TRP	TIS
1	WIFI (AP)	WIFI_B (11M)	1	2412	13.9	-64.33
2	WIFI (AP)	WIFI_B (11M)	6	2437	13.96	-64.32
3	WIFI (AP)	WIFI_B (11M)	11	2462	12.09	-64.01
1	WIFI (AP)	WIFI_A (54M)	149	5745	10.94	-67.2
2	WIFI (AP)	WIFI_A (54M)	157	5785	8.82	-66.03
3	WIFI (AP)	WIFI_A (54M)	165	5825	11.66	-68.04

3.2 Passive parameters

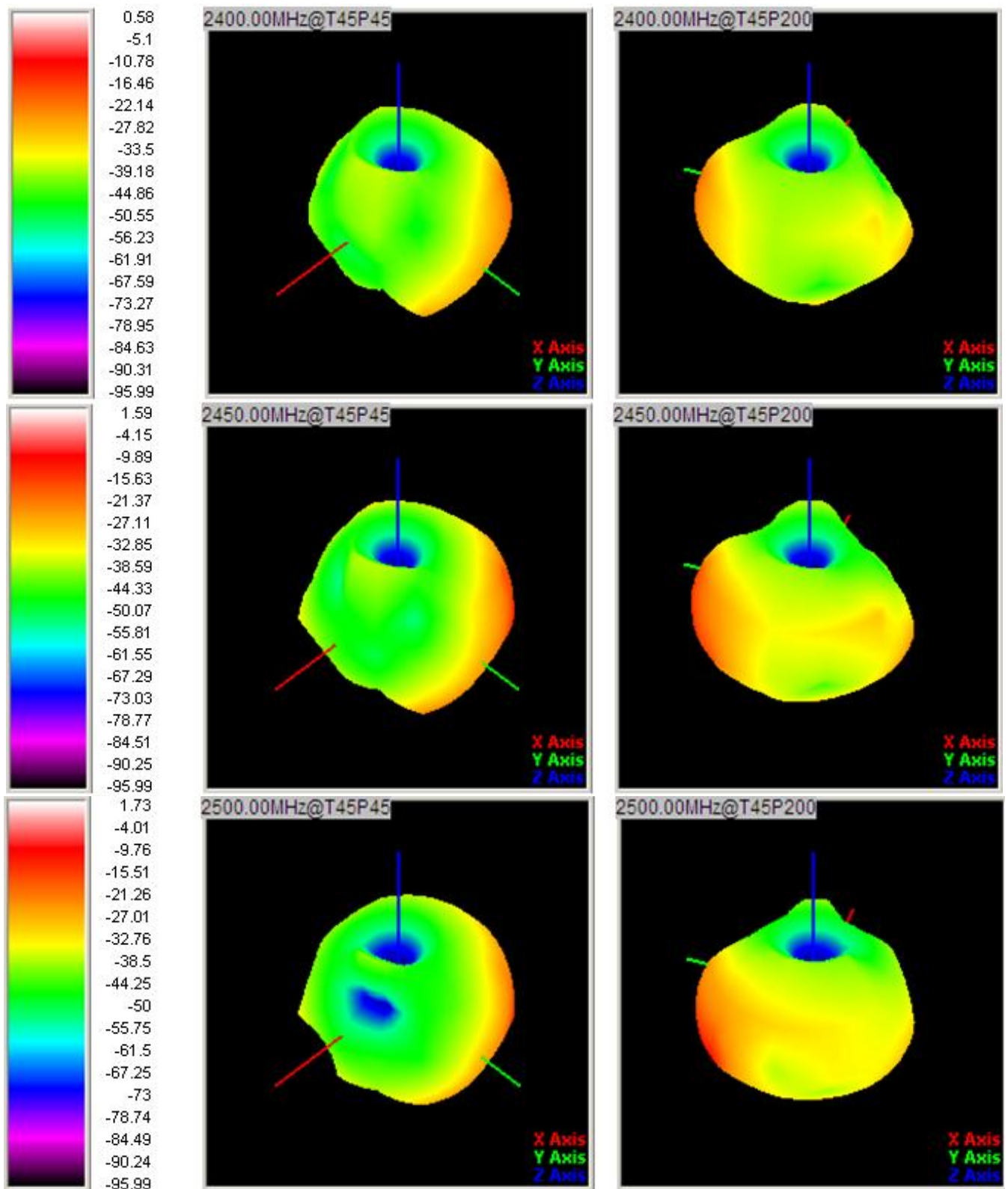
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Frequency (MHz)	2400.0	2420.0	2440.0	2460.0	2480.0	2500.0	5100.0	5175.0	5250.0	5325.0	5400.0	5475.0	5550.0	5625.0	5700.0	5775.0	5850.0
Gain (dBi)	2.74	2.84	2.43	2.69	2.61	2.59	1.33	1.02	1.16	1.17	1.83	1.95	2.23	2.47	3.18	3.43	2.26
Efficiency (%)	45.91	46.76	41.72	44.79	43.96	45.06	30.46	34.28	32.71	29.12	28.18	24.53	27.66	23.71	28.76	31.57	29.38

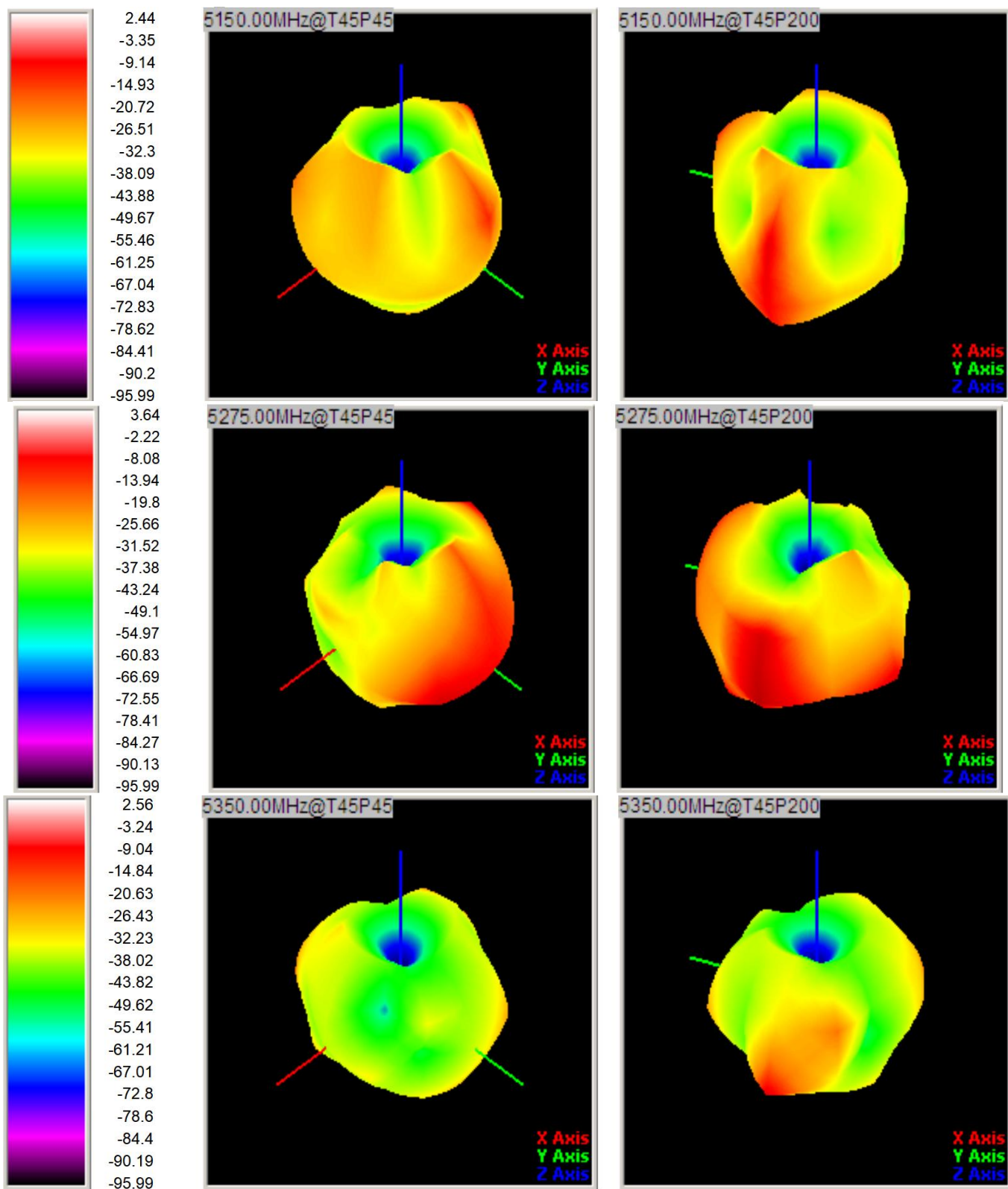
3.3 S Parameter

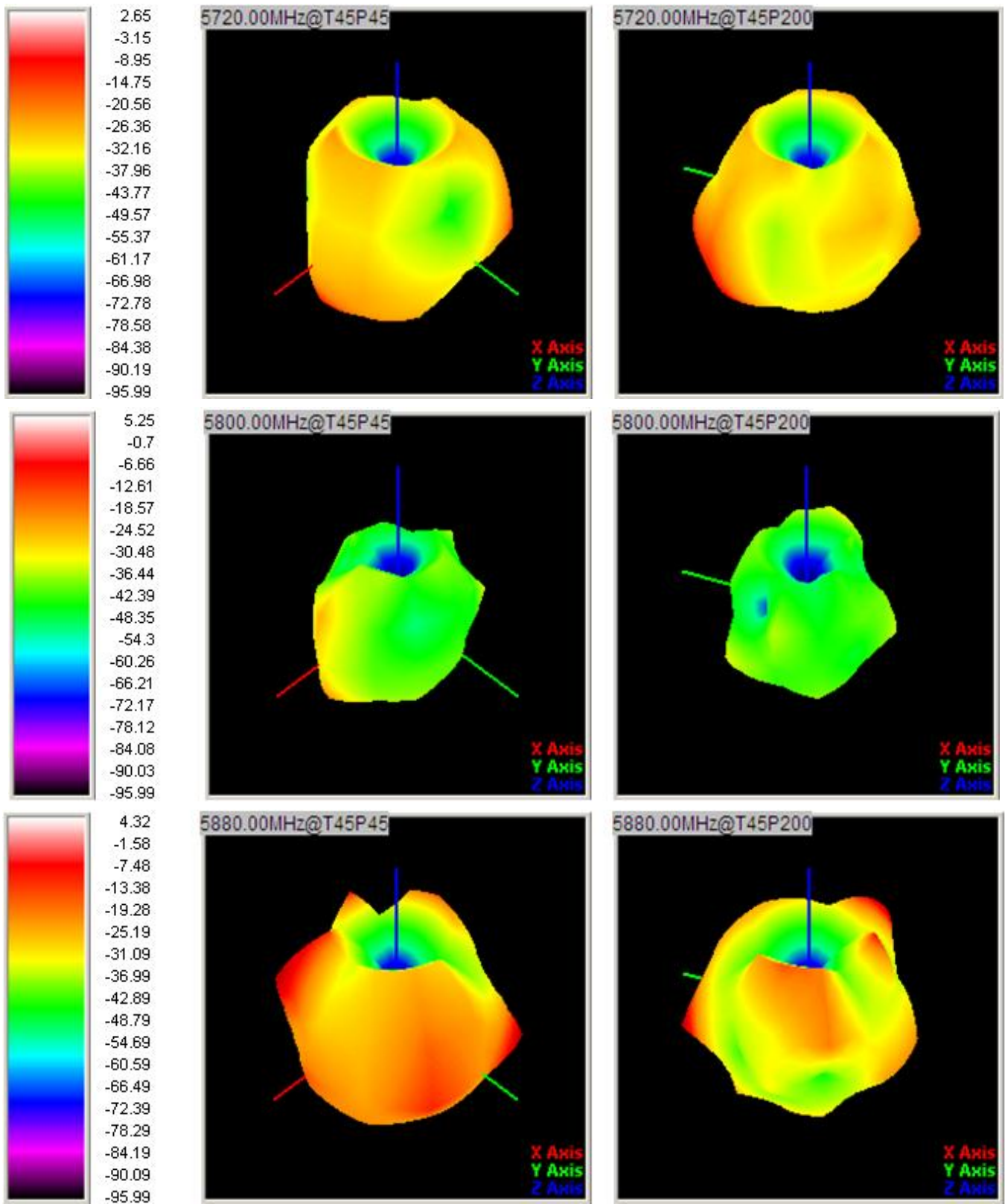
Frequency (MHz)	2400	2450	2480	5180	5320	5725	5875
Return Loss (dB)	-13.2	-20.6	-13.9	-10.36	-13.13	-17.5	-17.1
VSWR	1.53	1.27	1.6	1.89	1.6	1.28	1.33



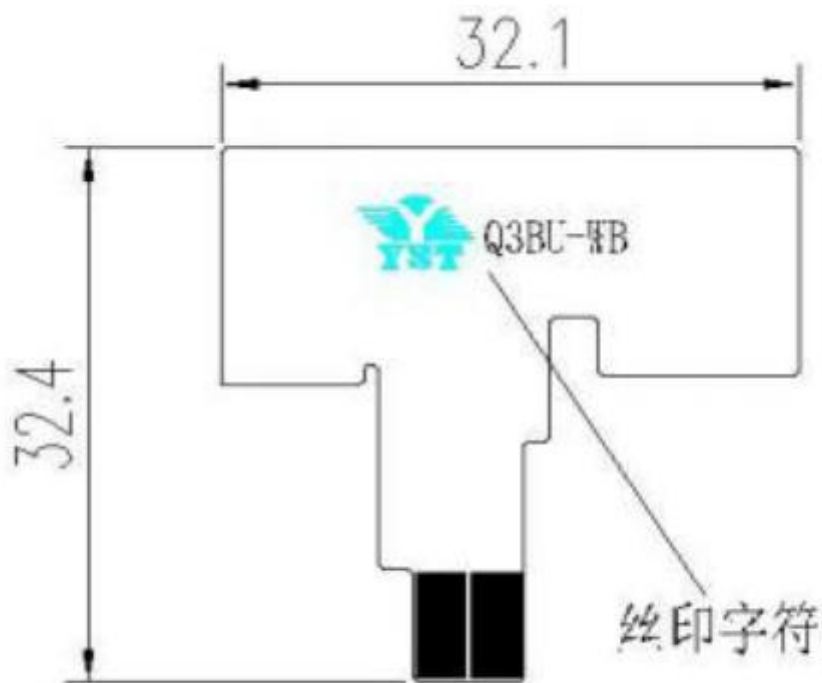
3.4 Antenna 3D Radiation Pattern (Unit:dbi)





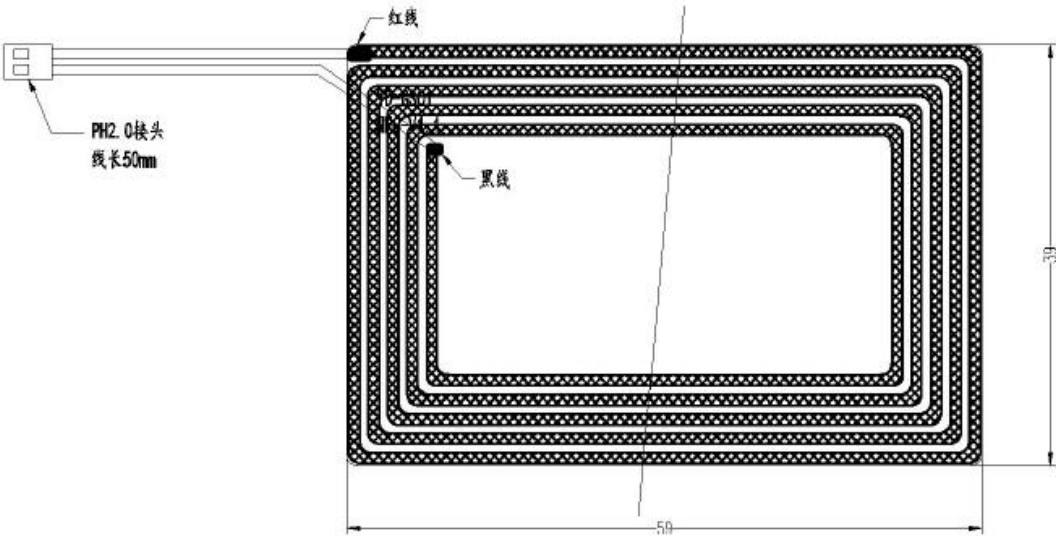


4.ME Drawing for the antenna



工程图

版本	日期	ECR NO	变更内容	修 订
A0	2025/12/19			



Shenzhen Hengchuang Jiaye Technology Co., Ltd
No. 1, Third Road, Shangwei Industrial Zone, Shanglan Uping Community, Longhua New District, Shenzhen, China
Model: HYXX-036
Gain: Maximum gain is 0dBi
We statement that All measurements were performed radiated and therefore additional antenna gain documentation is not required.

 Shenzhen Hengchuang Jiaye Technology CO.,Ltd

客户料号:	工程图	图号	HYXX-036
客户名称:			
客户确认:	单位:mm	审核: 黄 明	
产品单重:	制图: 夏 沫		
客户线材名称:			

1		UL1571 28AWG 黑色电子线 7*0.12TS OD:0.9						1
No. 序号	Material code. 物料编码	Material description 名称: 材料规格	Colour 颜色	vendor 供应商	C/L 切线长度	S/L (L/R) 剥线长度	TIN 浸锡	QTY 用量