

SPECIFICATION

SPECIFICATION FOR APPROVAL

物料描述

DESCRIBE: FPC WIFI FPC Antenna

项目名称

PROJECT NAME: D183

物料编码

PART NO: BY-D183-WIFI-A01

客户名称

CUSTOMER NAME: Shenzhen Aoni Electronics Co., LTD

客户料号

CUSTOMER (P/N):

日期

DATE: 2024-09-05

供应商承认

Supplier confirmation:

Customer confirmation			
Confirm	Proofread	Audit	Ratify

深圳市博远无线通讯技术有限公司

Shenzhen Boyuan wireless communication technology Co.,LTD

通讯地址：深圳市宝安区石岩街道松柏路美生智谷春谷402

Catalogue

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三. Change resume

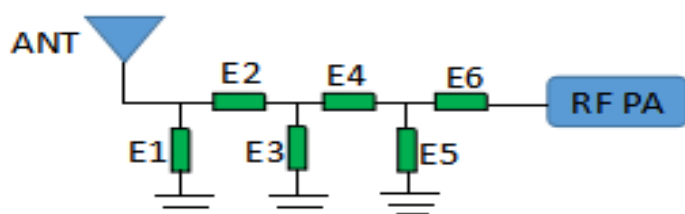
Item	Change date	project name	Versions	content of changed	Remark
1	2024.9.5	FPC Antenna	A01	/	First edition

四. Antenna picture

1. Antenna Structure



五. Antenna matching



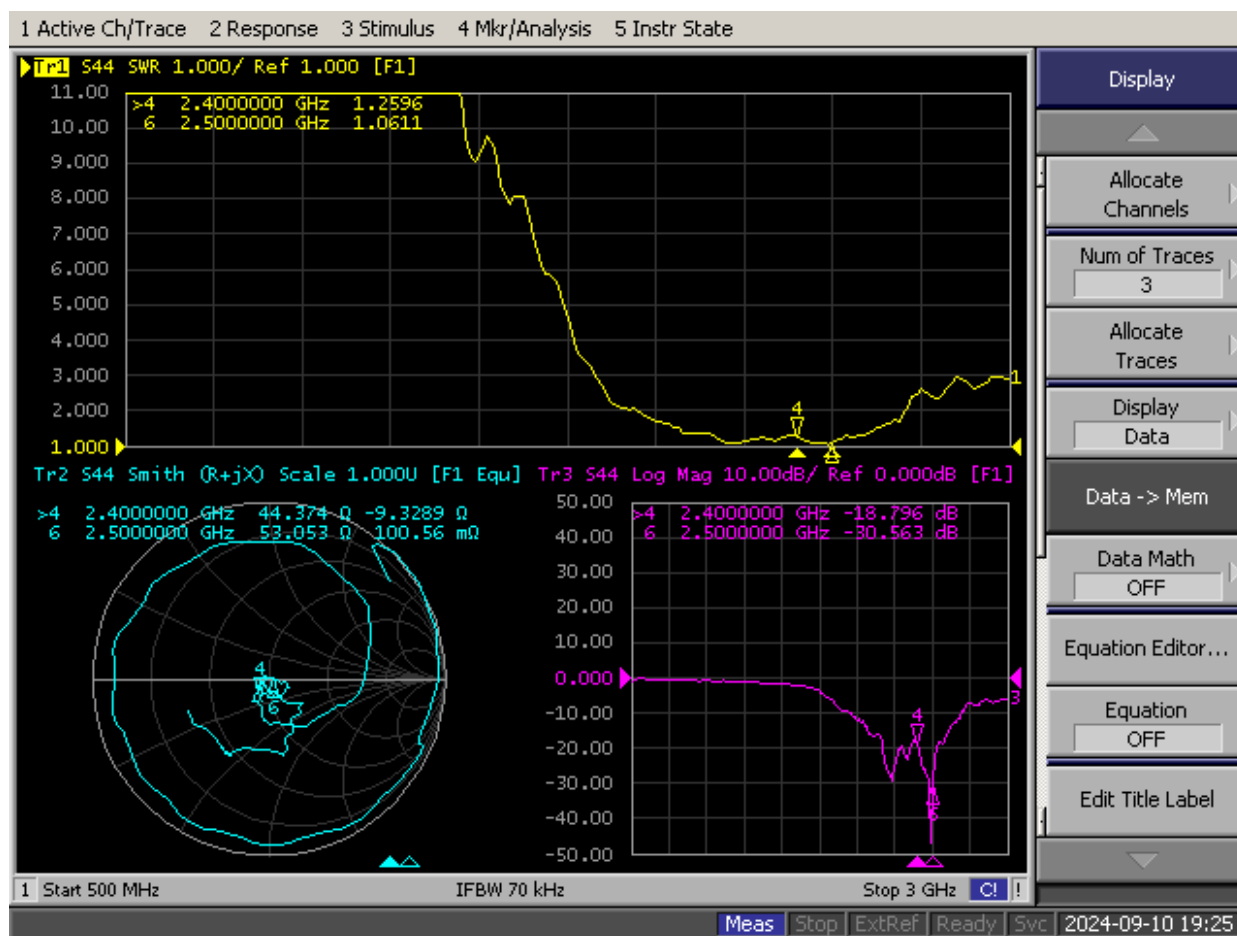
主路匹配		
Element	Value	
E1	N/A	
E2	0 Ω	
E3	N/A	
E4	0 Ω	
E5	N/A	
E6	N/A	

Antenna

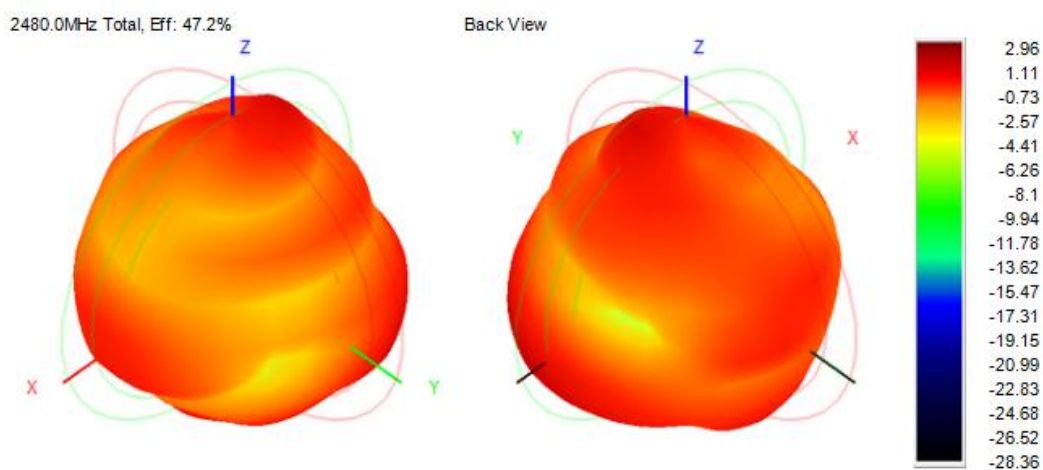
六. Antenna performance

Electrical Specification/电气特性	
Freq. Range/频段范围 (MHz)	2400-2500MHZ
impedance/阻抗 (Ω)	50 Ω
Directional/辐射方向	omnidirectional
Polarization/极化方式	Linear polarization
Mechanical Specification/机械指标	
Material/材质	FPC
RF Cable/射频线规格	/
Connector Type/连接器类型	/
Environmental Specification/环境指标	
Operation temp/工作温度	-20℃~+85℃

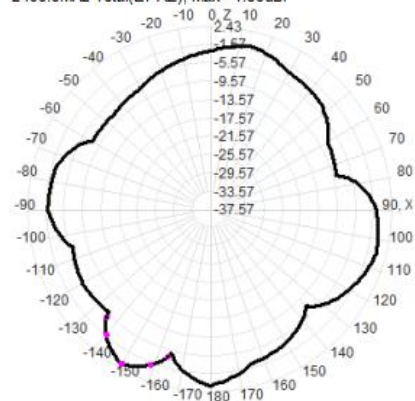
Test data



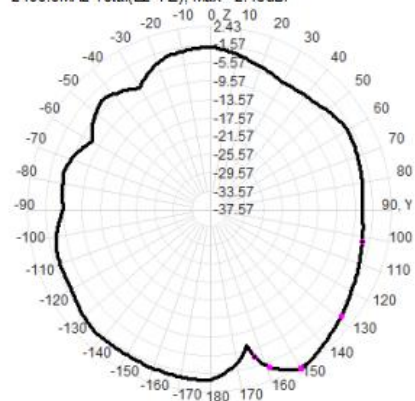
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.0	2.32	49.56
2405.0	2.04	47.42
2410.0	1.91	47.64
2415.0	1.76	46.85
2420.0	1.77	46.68
2425.0	1.80	47.22
2430.0	1.85	48.15
2435.0	1.85	48.39
2440.0	2.08	50.01
2445.0	2.24	49.30
2450.0	2.58	50.82
2455.0	2.69	49.39
2460.0	2.95	50.32
2465.0	2.90	47.84
2470.0	3.06	48.86
2475.0	2.89	46.46
2480.0	2.96	47.20
2485.0	2.78	45.95
2490.0	2.75	46.97
2495.0	2.52	46.27
2500.0	2.53	48.15



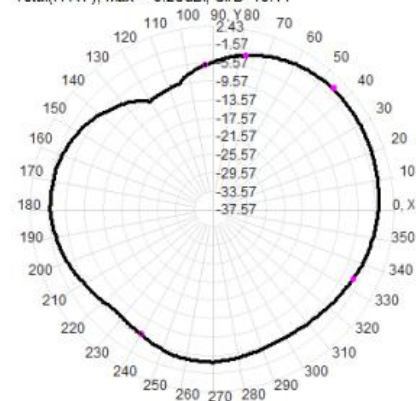
2480.0MHz Total(E1-XZ), Max= 1.36dBi



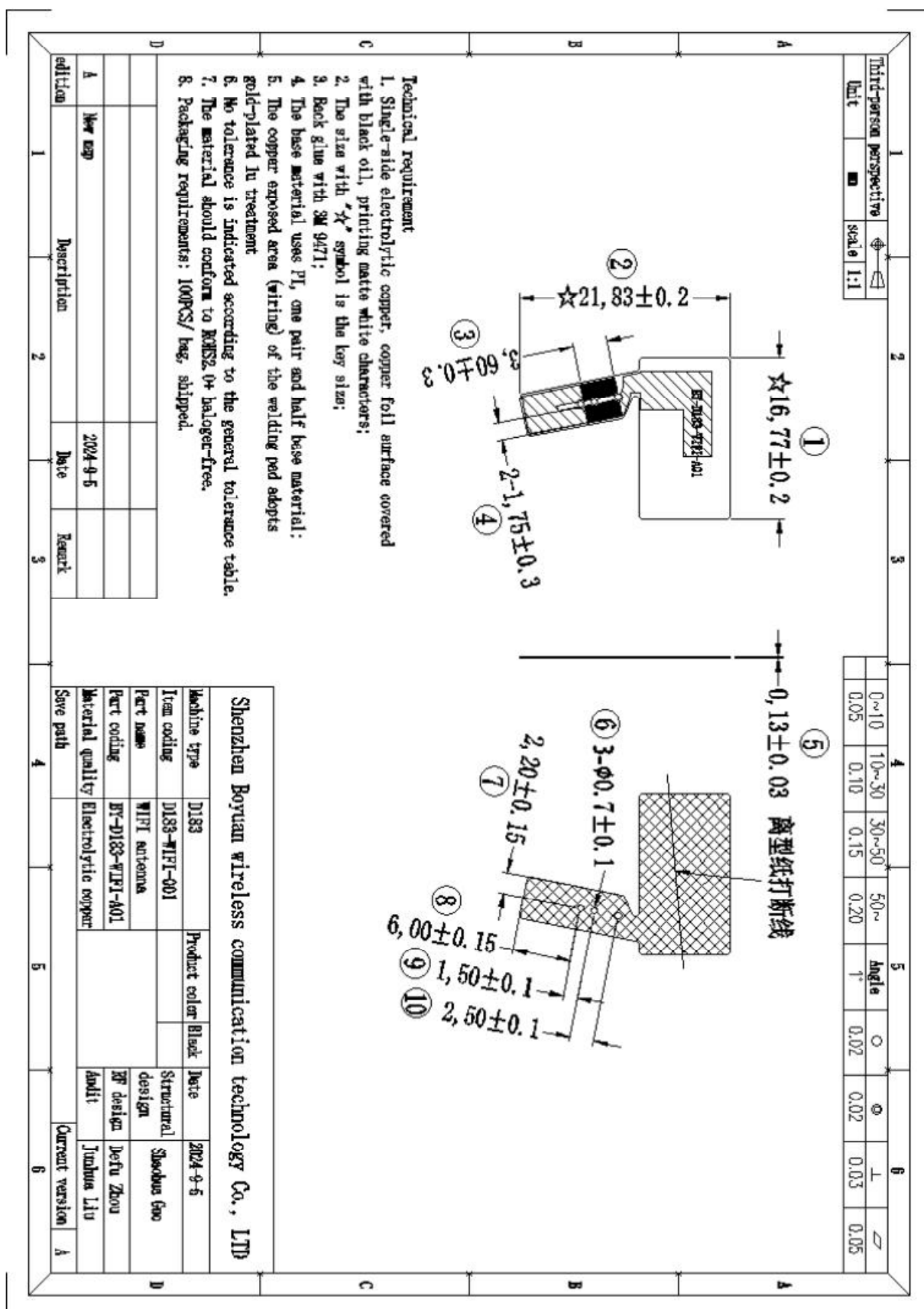
2480.0MHz Total(E2-YZ), Max= 2.43dBi



Total(H-XY), Max= -0.23dBi, CirD=10.11



七. Antenna structural drawings



八. Measurement report

Serial number	Dimension	Measured size					Dimensional tolerance	Determine
1	21.83	21.80	21.81	21.85	21.83	21.79	± 0.2	√
2	16.77	16.79	16.75	16.77	16.81	16.72	± 0.2	√
3	3.60	3.62	3.58	3.65	3.66	3.63	± 0.3	√
4.1	1.75	1.79	1.77	1.73	1.76	1.81	± 0.3	√
4.2	1.75	1.74	1.76	1.79	1.80	1.78	± 0.3	√
5	0.13	0.11	0.13	0.12	0.10	0.11	± 0.03	√
6.1	0.70	0.72	0.68	0.73	0.69	0.71	± 0.1	√
6.2	0.70	0.73	0.71	0.67	0.75	0.74	± 0.1	√
6.3	0.70	0.75	0.66	0.73	0.68	0.71	± 0.1	√
7	2.20	2.26	2.17	2.21	2.23	2.18	± 0.15	√
8	6.00	6.03	6.07	6.05	5.97	6.01	± 0.15	√
9	1.50	1.51	1.55	1.47	1.49	1.52	± 0.1	√
10	2.50	2.49	2.52	2.55	2.51	2.53	± 0.1	√
11								
12								
13								
14								
15								
16								

九. Bill Of Material

Serial number	Name	Material specification	Dosage
1	FPC	Material: one-half, single-side electrolytic copper, black, 3M9471 adhesive	1
2			
3			
4			
5			
6			
7			
8			
9			
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11			
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14			
15			
16			
17			
18			

十. Assembly position

