

承 认 书

APPROVAL SHEET

客户名称

CUSTOMER NAME:

产品名称

PRODUCT NAME: 2.4/5.8G steel sheet L=193mm

客户料号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB01C193J2D4229A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Eddy 	
APPROVED BY:	工程专用章 Changxing. Liu	
DATE:	2023/11/14	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Eddy	2023-11-14

Content

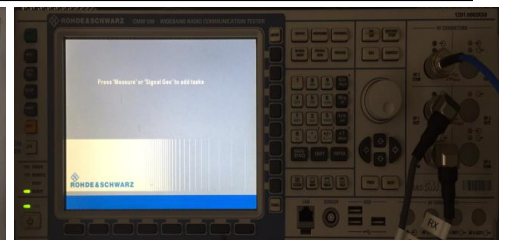
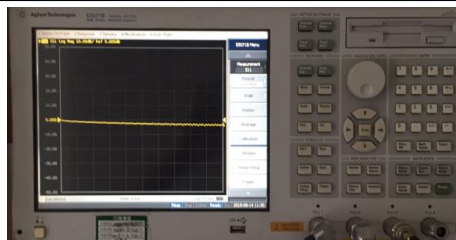
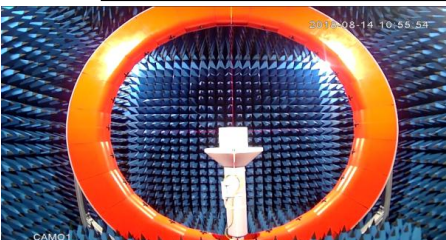
<i>Item</i>	<i>Description</i>
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1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	30x11x5.3x0.4,L193	mm
Frequency	2400-2500 / 5150-5850	MHz
Impedance	50	Ω
VSWR	/	
Polarization	Linear Polarization	
Gain	2 REF @2.4G 3 REF @5.8G	dBi
Efficiency	> 40	%
Connector Type	RF 1	
Operating temperature	-20°C~+85°C	
Storage Temp	-20°C~+50°C	

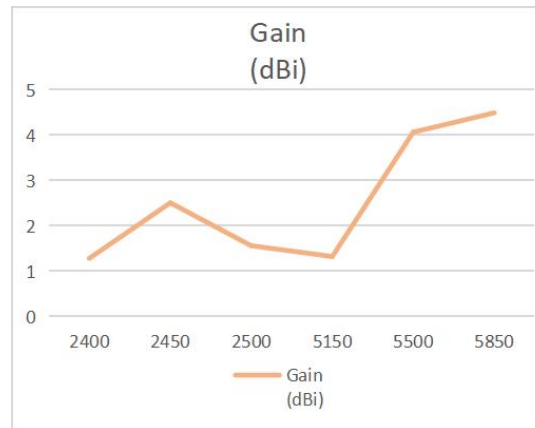
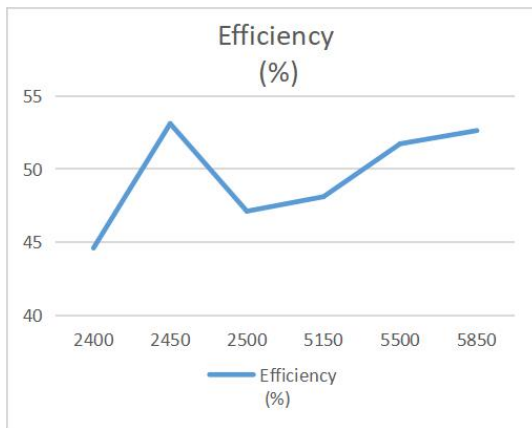
2. Test Items and Equipment

	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave darkroom (5m*5m*5m) 2.Comprehensive test instrument (CMW500)

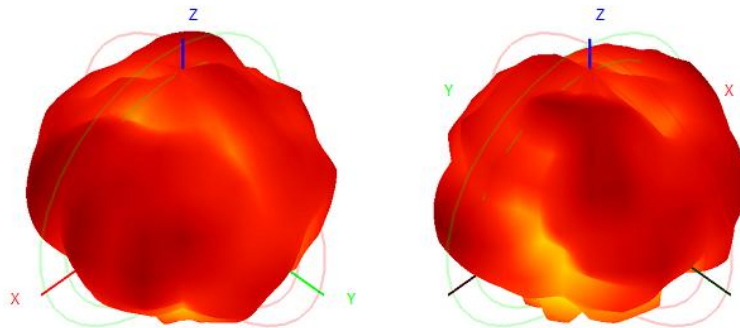


4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500	5150	5500	5850
Efficiency (%)	44.59	53.10	47.11	48.10	51.72	52.62
Gain (dBi)	1.28	2.50	1.56	1.32	4.06	4.49

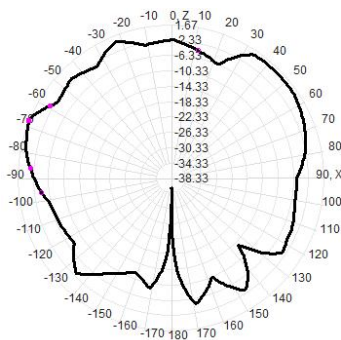


4. Radiation Pattern

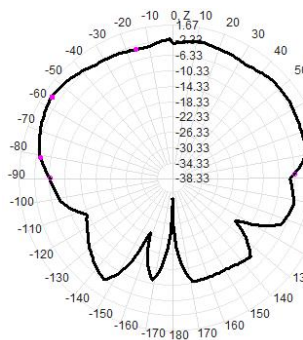


2400MHz H+V

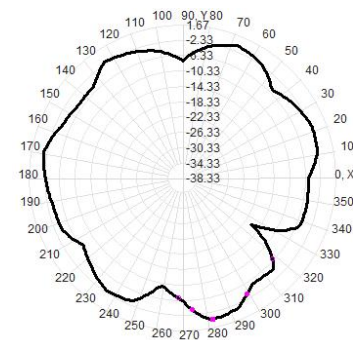
Back View



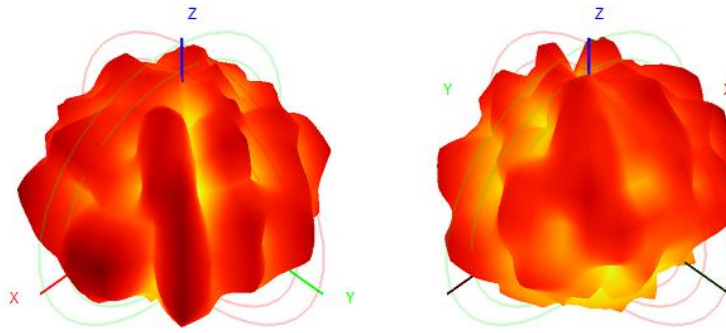
E1-Plane



E2-Plane

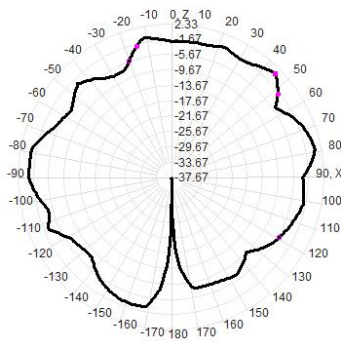


H-Plane

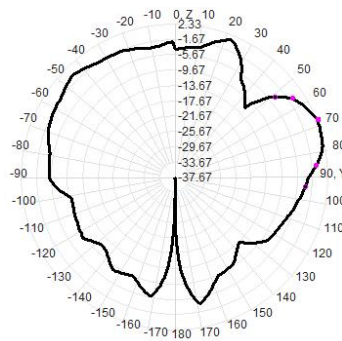


5500MHz H+V

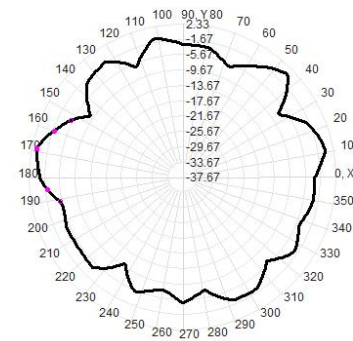
Back View



E1-Plane



E2-Plane



H-Plane

5. Active test data

802.11b:11Mbps		
Channel	Measurement	Total
1	TRP	13.05
6	TRP	13.12
11	TRP	14.23
1	TIS(EIRP)	-81.83
6	TIS(EIRP)	-80.25
11	TIS(EIRP)	-83.68

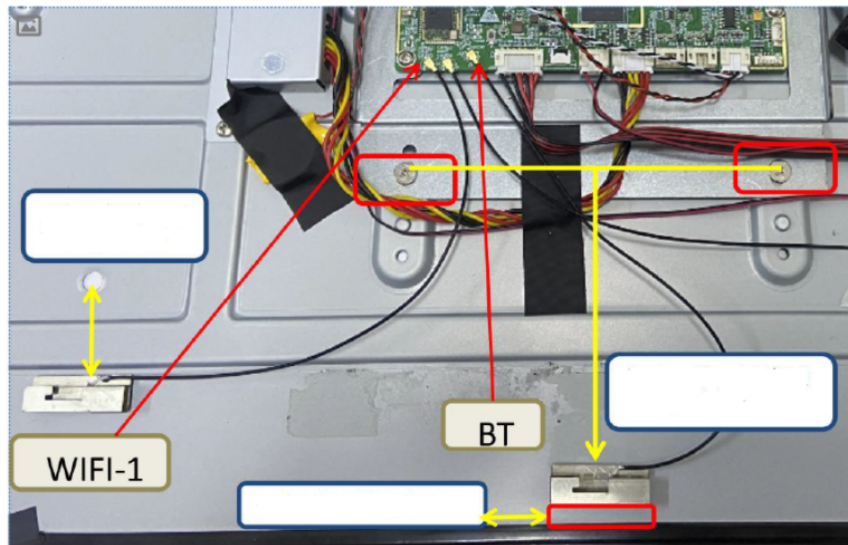
802.11a:54Mbps		
Channel	Measurement	Total
36	TRP	16.48
149	TRP	16.12
165	TRP	15.32
36	TIS(EIRP)	-70.2
149	TIS(EIRP)	-74.66
165	TIS(EIRP)	-74.83

6. WiFi throughput

2.4G						
Item	Direction	Atten(dB)/Angle(°)	0°	90°	180°	270°
1	TX	0	125.14	126.31	123.77	122.79
2	TX	40	88.3	101.86	/	104.49
1	RX	0	125.29	119.18	122.48	115.83
2	RX	40	80.45	62.62	/	61.48

5.8G						
Item	Direction	Atten(dB)/Angle(°)	0°	90°	180°	270°
1	RX	0	150.81	152.03	152.79	149.18
2	RX	40	132.66	140.74	25.4	119.36
1	TX	0	125.16	125.77	135.11	134.03
2	TX	40	113.02	93.35	48.8	91.95

7. Antenna installation diagram



8. Mechanical Specification

