



好天线 · 优比造

东莞市优比电子有限公司

Dongguan Youbi Electronics Co., Ltd

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称

PRODUCT NAME: 2.4G FPC 内置天线

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB01NF1D1520A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Eddy	
APPROVED BY:	工程专用章 Changxing. Liu	
DATE:	2024/12/4	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Eddy	2024-12-4

Content

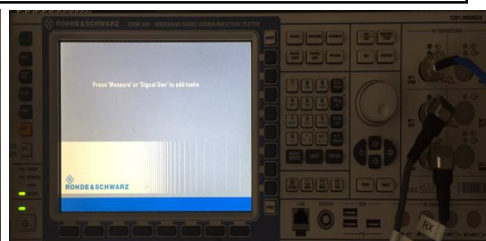
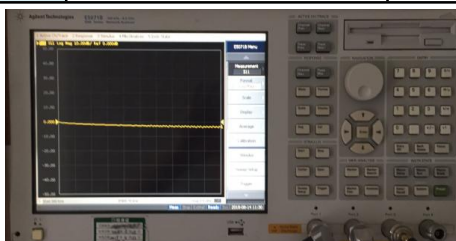
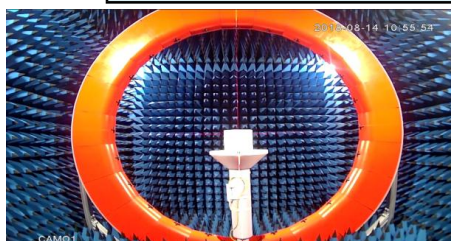
<i>Item</i>	<i>Description</i>
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1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	14.6x12.2	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	< 2.5	
Polarization	Linear Polarization	
Gain	1.93 MAX	dBi
Efficiency	>40	%
Connector Type	/	
Operating temperature	-20℃~+85℃	
Storage Temp	-20℃~+50℃	

2. Test Items and Equipment

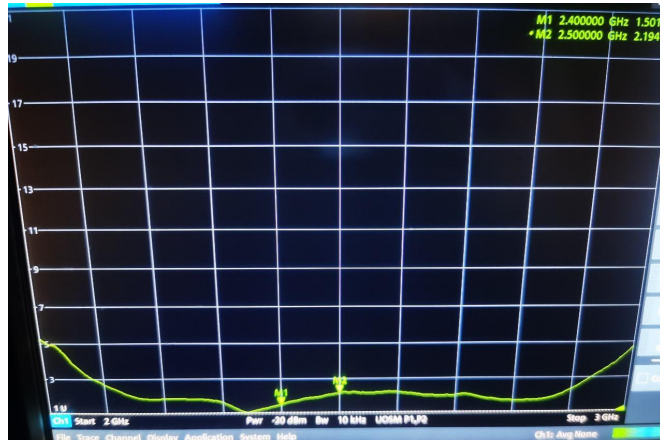
	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave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



3. S Parameter

Frequency (MHz)	VSWR
2400	1.50
2500	2.19

* Voltage Standing Wave Ratio(VSWR)
Return Loss(RL)
 $RL=20*\log_{10}[(VSWR+1)/(VSWR-1)]$



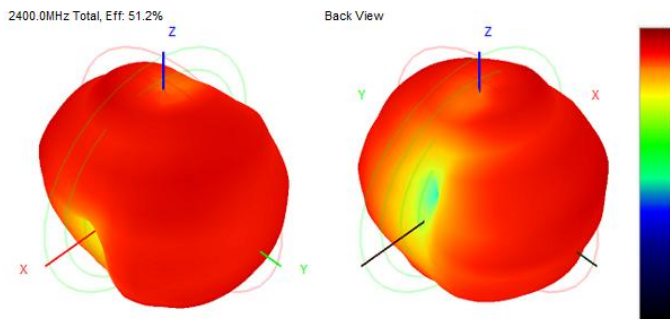
4. Efficiency and Gain

Frequency / MHz	Efficiency (dBi)	Efficiency / %	Gain/ dB
2400.0	-2.91	51.22	1.93
2410.0	-2.85	51.89	1.87
2420.0	-2.96	50.59	1.66
2430.0	-3.05	49.57	1.67
2440.0	-3.26	47.17	1.61
2450.0	-3.43	45.44	1.41
2460.0	-3.41	45.63	1.32
2470.0	-3.46	45.06	1.28
2480.0	-3.73	42.36	1.29
2490.0	-3.74	42.29	1.29
2500.0	-3.84	41.26	1.02

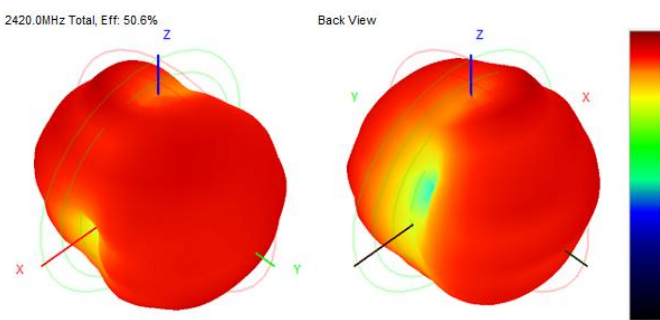
5. Radiation Pattern

3D Pattern

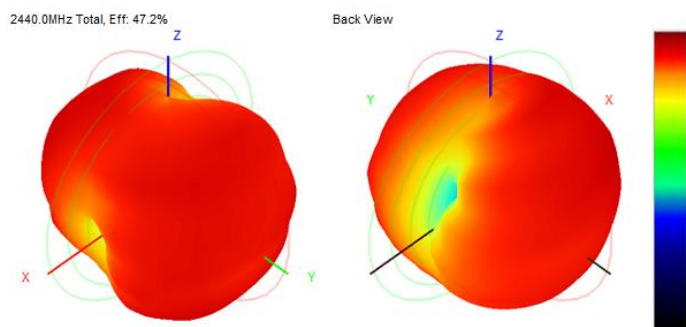
2.4G



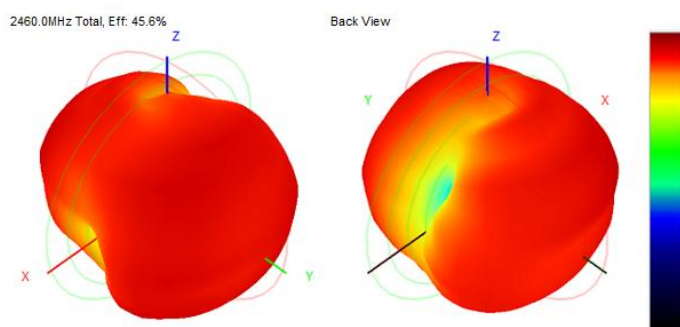
2.42G



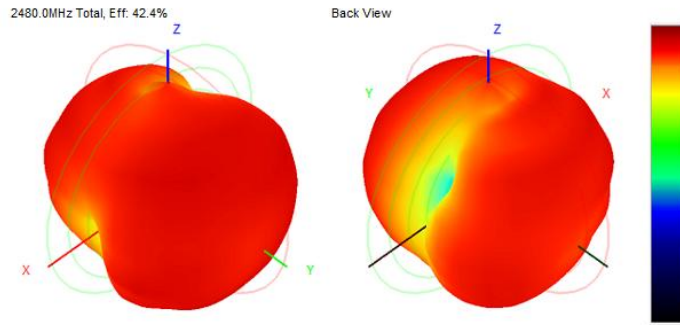
2.44G



2.46G

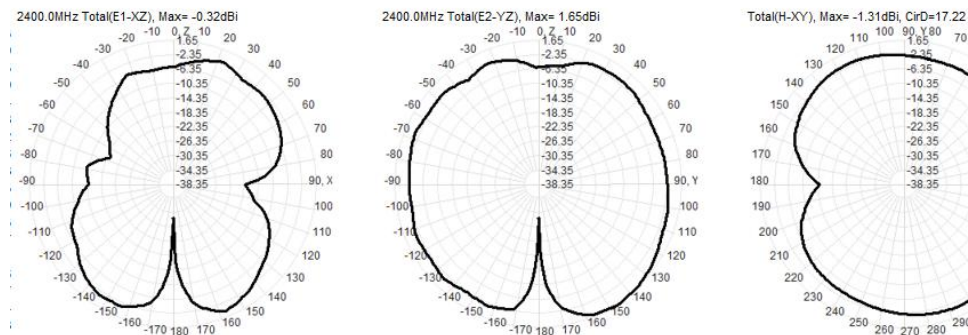


2.48G

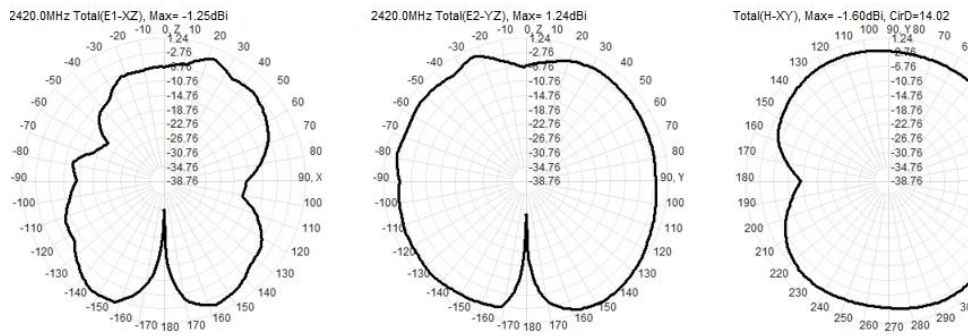


2D Pattern

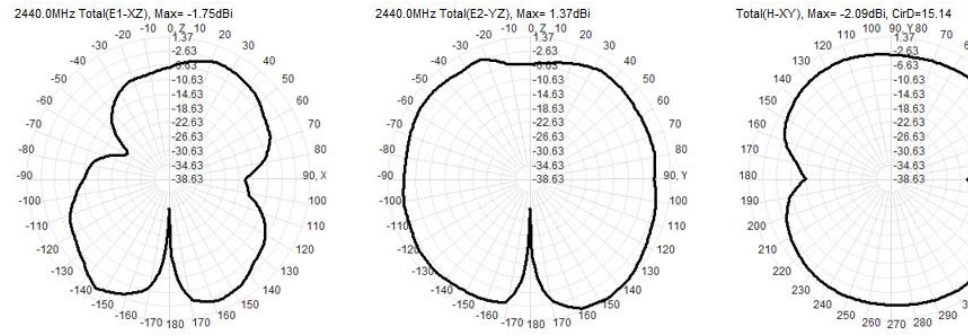
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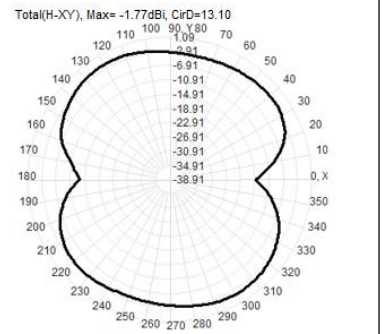
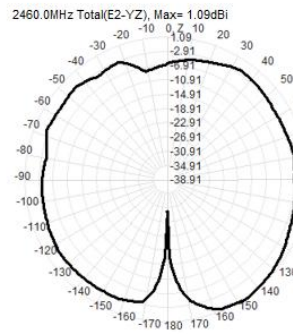
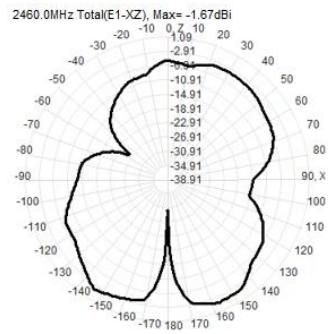
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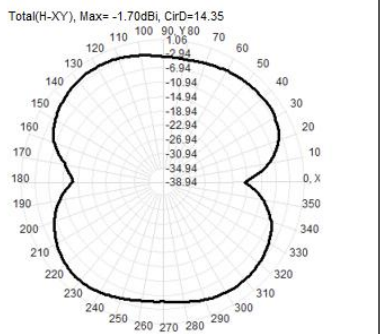
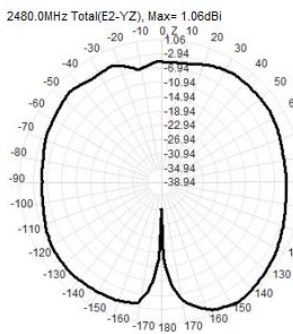
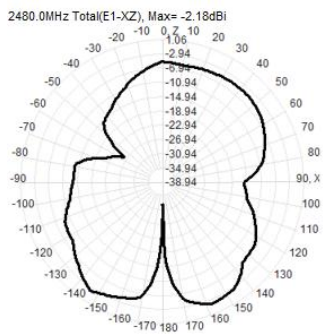
2.44G



2.46G



2.48G



8. Mechanical Specification

