

Acknowledgement

SPECIFICATION FOR APPROVAL

CUSTOMER NAME: Shenzhen Kaadas Intelligent Technology co.,Ltd.

PRODUCT NAME: 2.4G internal antenna L=150/155mm

CUSTOMER P/N:

Ren Feng P/N: U00T02S000N03078 REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Huang Lei	
AUDITOR BY:	Huang Chao	
APPROVED BY:	Yao Dingjun	
DATE:	2023-06-14	

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一、 Change of resume

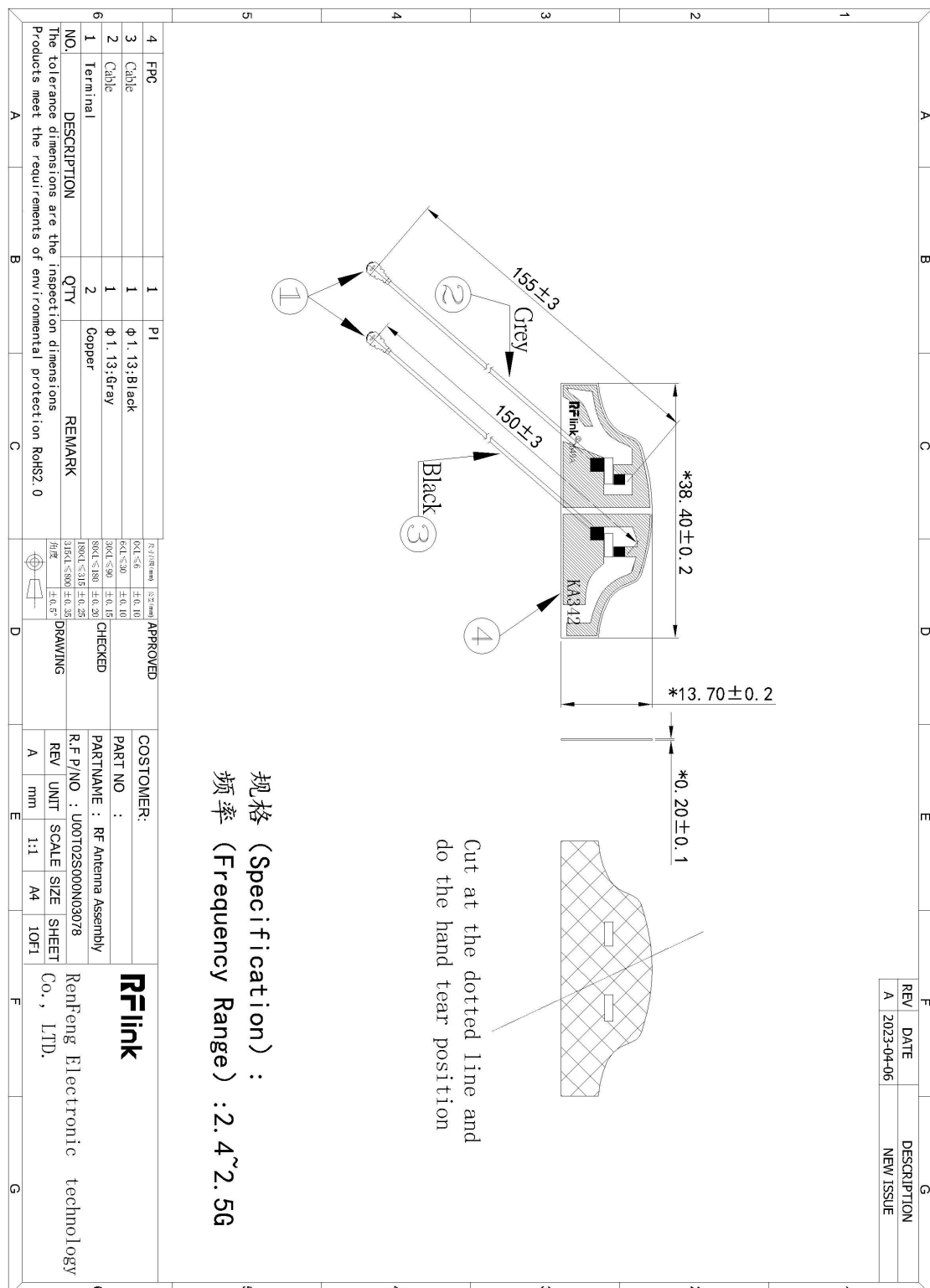
REV	DATE	Change record
A	2023-06-14	Initial release

二、Specification sheet:

Product main technical parameters

Main technical specifications		Main technical specifications	
Frequency Range (MHZ)	2400-2500	Frequency Range (MHZ)	2400-2500
Impedance(Ω)	50	Impedance(Ω)	50
Peak Gain(dBi)	WIFI ≤ 2.78 BT ≤ 2.79	Peak Gain(dBi)	WIFI ≤ 2.78 BT ≤ 2.79
VSWR	≤ 2.0	VSWR	≤ 2.0
Radiation	Omni-directional	Radiation	Omni-directional
Connector Type	Terminal	Connector Type	Terminal
Physical Properties		Physical Properties	
Antenna cover	FPC	Antenna cover	FPC
Operating Temp	-20 $^{\circ}$ C~+70 $^{\circ}$ C	Operating Temp	-20 $^{\circ}$ C~+70 $^{\circ}$ C
Storage Temp	-20 $^{\circ}$ C~+70 $^{\circ}$ C	Storage Temp	-20 $^{\circ}$ C~+70 $^{\circ}$ C

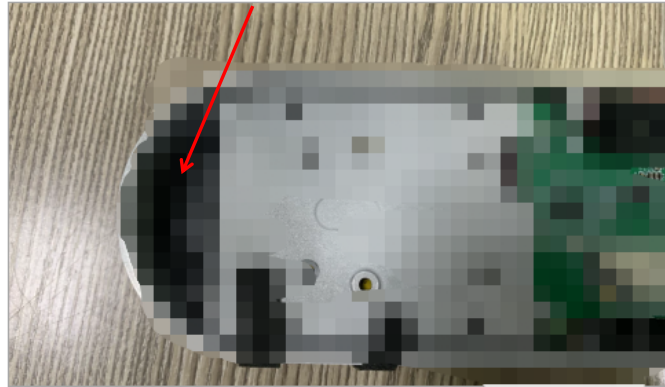
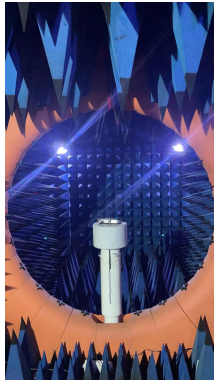
三、 Finished drawing:



四、Antenna placement

Antenna position

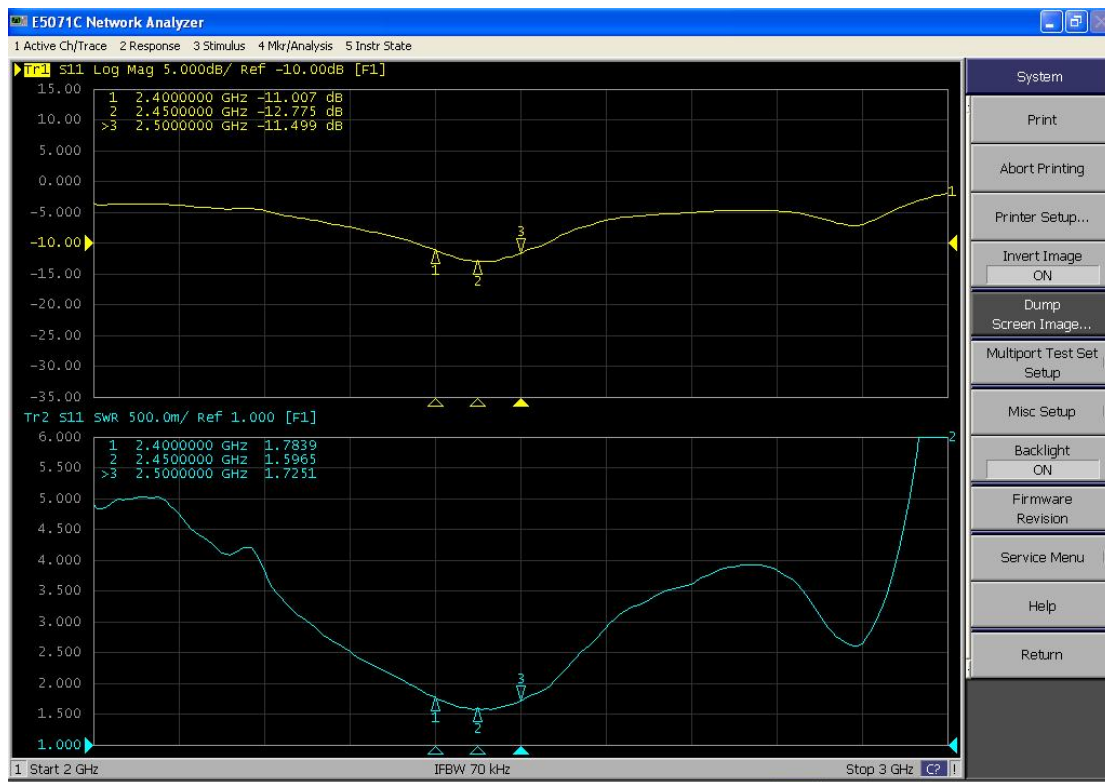
Antenna placement (Black BT; Grey WIFI)



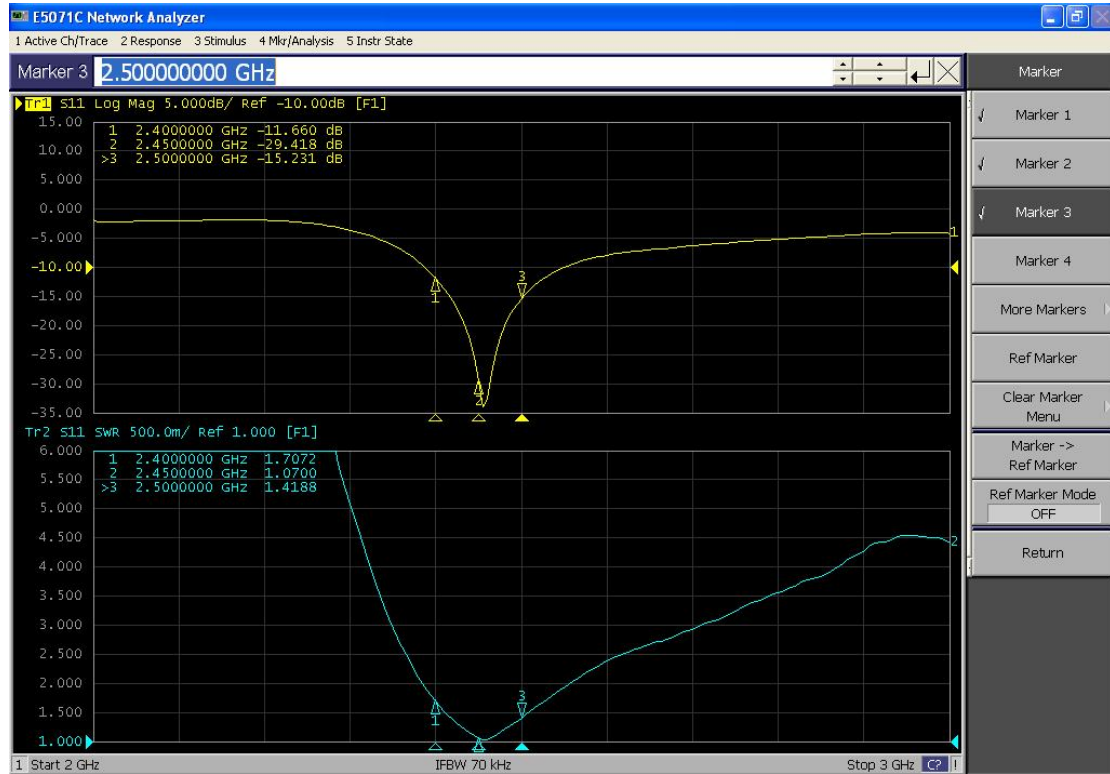
五、Test report

5.1: Network analyzer test report

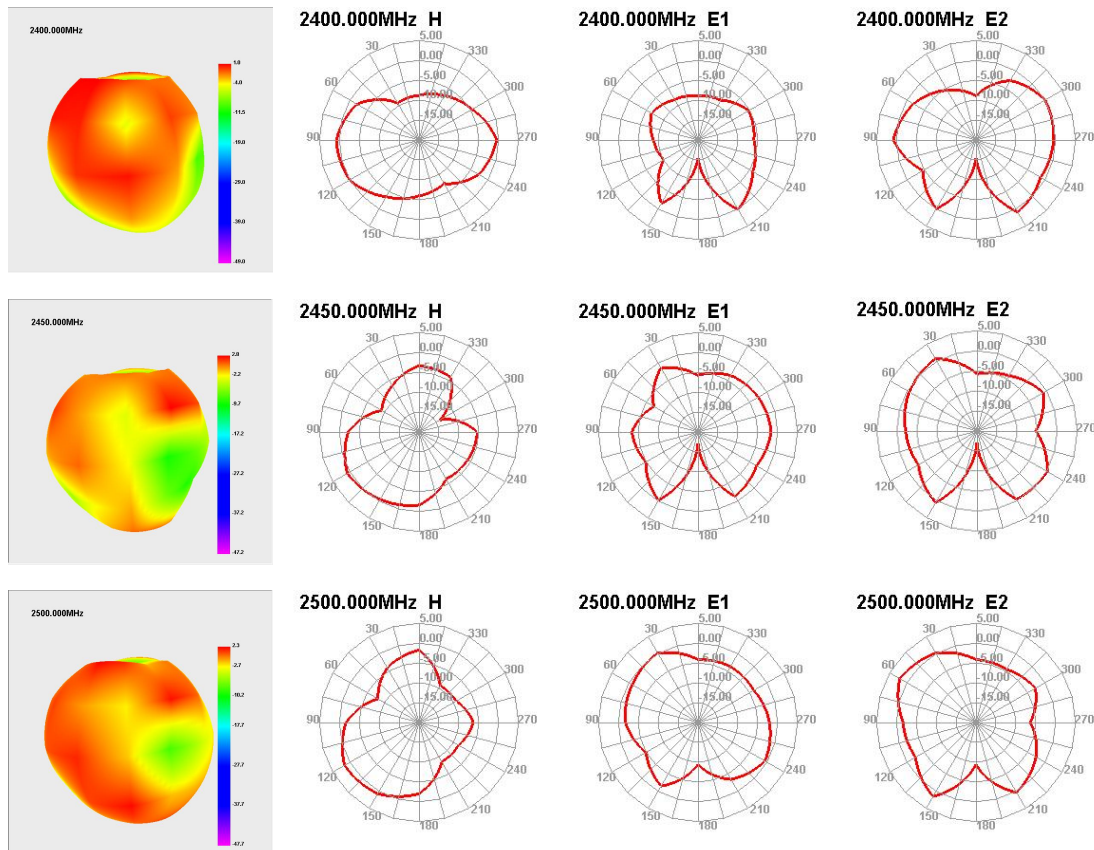
WIFI



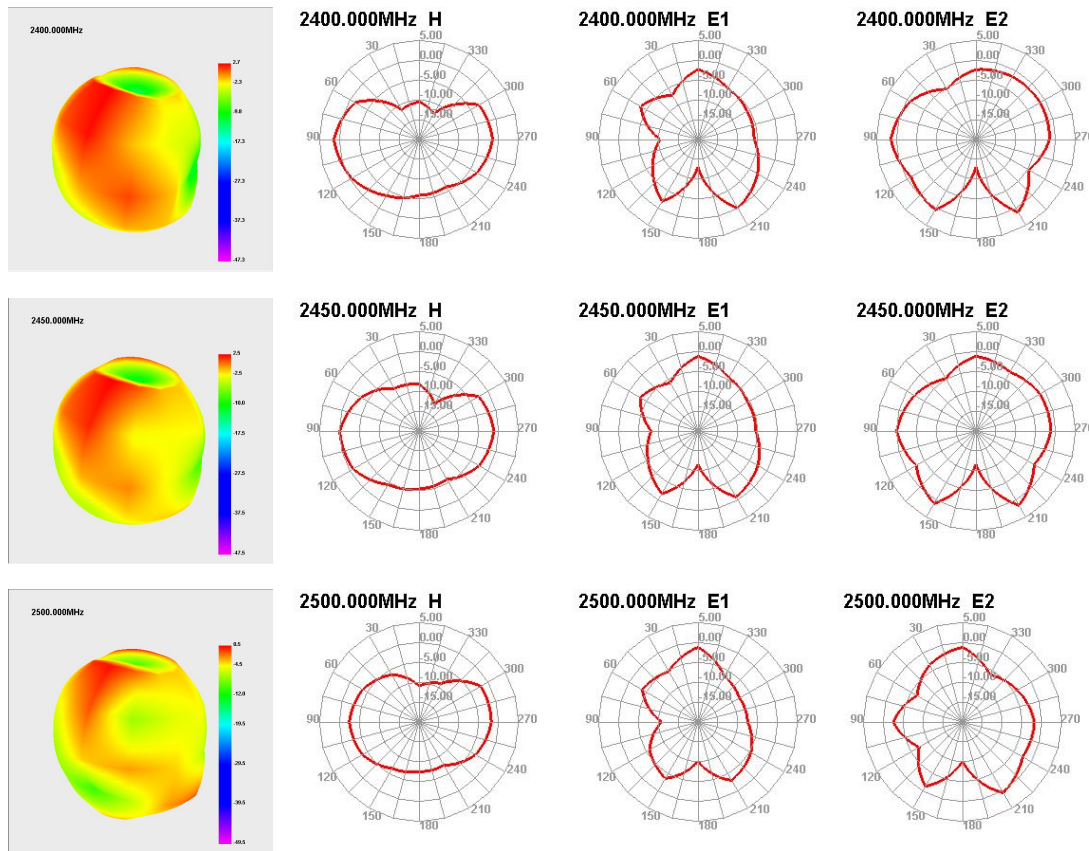
BT



BT



WIFI



WIFI			BT		
Frequency MHz	Efficiency %	Gain dBi	Frequency MHz	Efficiency %	Gain dBi
2400	56.49	2.66	2400	54.02	1.05
2410	60.52	2.78	2410	59.19	1.32
2420	56.37	2.38	2420	56.51	1.23
2430	60.09	2.66	2430	61.51	2.23
2440	58.64	2.62	2440	63.42	2.79
2450	55.91	2.55	2450	61.85	2.77
2460	51.71	2.27	2460	62.7	2.69
2470	49.94	2.08	2470	66.03	2.64
2480	44.02	1.36	2480	67.13	2.4
2490	46.04	1.33	2490	67.42	2.28
2500	38.10	0.53	2500	64.49	2.28

五、 ROHS/ Raw Material List:

Meet RoHS requirements。

Component number	Component name	Material	QTY	Unit	Material manufacturer	UL
1	FPC	PI	1	pc	Junyi	/
2	φ 1.13 Cable	Tinning/FEP	2	pc	China Ocean Unicom	/
3	Terminal	Copper	2	pc	CAI Mei/Kechinol	/