

Sample Certificate of Recognition

Document version number: A1

	client	Contract manufacturing	Material supplier
Name of partner:	Anker	Konecranes	Youbi
project name :	T8025	T8025	T8025
Material number:	32002000223	290000-019648	UB01C128F2D4918A
Material description:	2.4G FPC built-in antenna 1.13 grey wire terminal L=111MM		
Date of acknowledgement:	2025-04-22	Version of the letter acknowledged	V1

Supplier confirmation	
research and development	character

Anker approval	
Smart research and development ZhiXin MD /HW /ID/ certification	Zhi Xin SQE

Signature explanation: 1. This letter of recognition shall be in at least 5 copies, one copy for anchor R&D and SQE respectively, one copy for material manufacturer and OEM

Keep two copies in the factory;

- 2. Anker Each owner signature shall be signed with the full English name of the company.*
- 3. First, send the electronic file to Anker's corresponding R&D and SQE for confirmation. After OK, send the paper file for signature and approval.*

Declaration

APPROVAL SHEET

CUSTOMER NAME: Anker

PRODUCT NAME: 2.4G FPC built-in antenna 1.13 grey wire
terminal L=111MM

CUSTOMER P/N: 32002000223

Youbi P/N: UB01C128F2D4918A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:	Yuefei. zhu	
DATE:	2025/04/22	

Catalogue

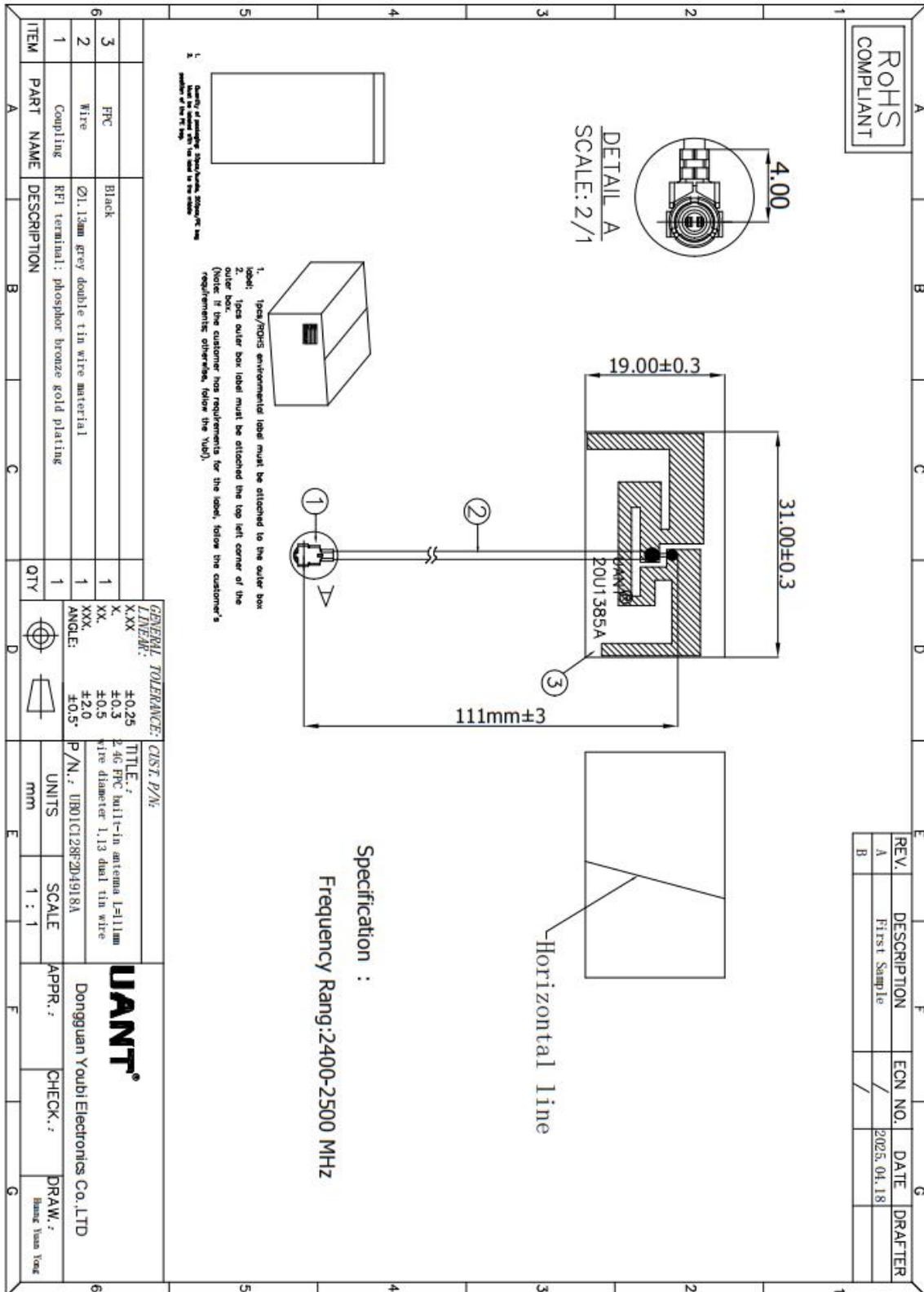
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1、Revision History

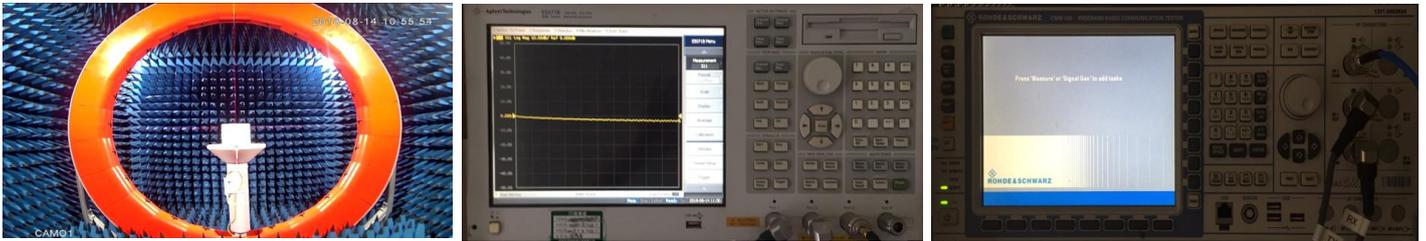
Version	Content Revision	Issued by	Date
A	Original version	lina	2025-04-22

2、2D Drawings



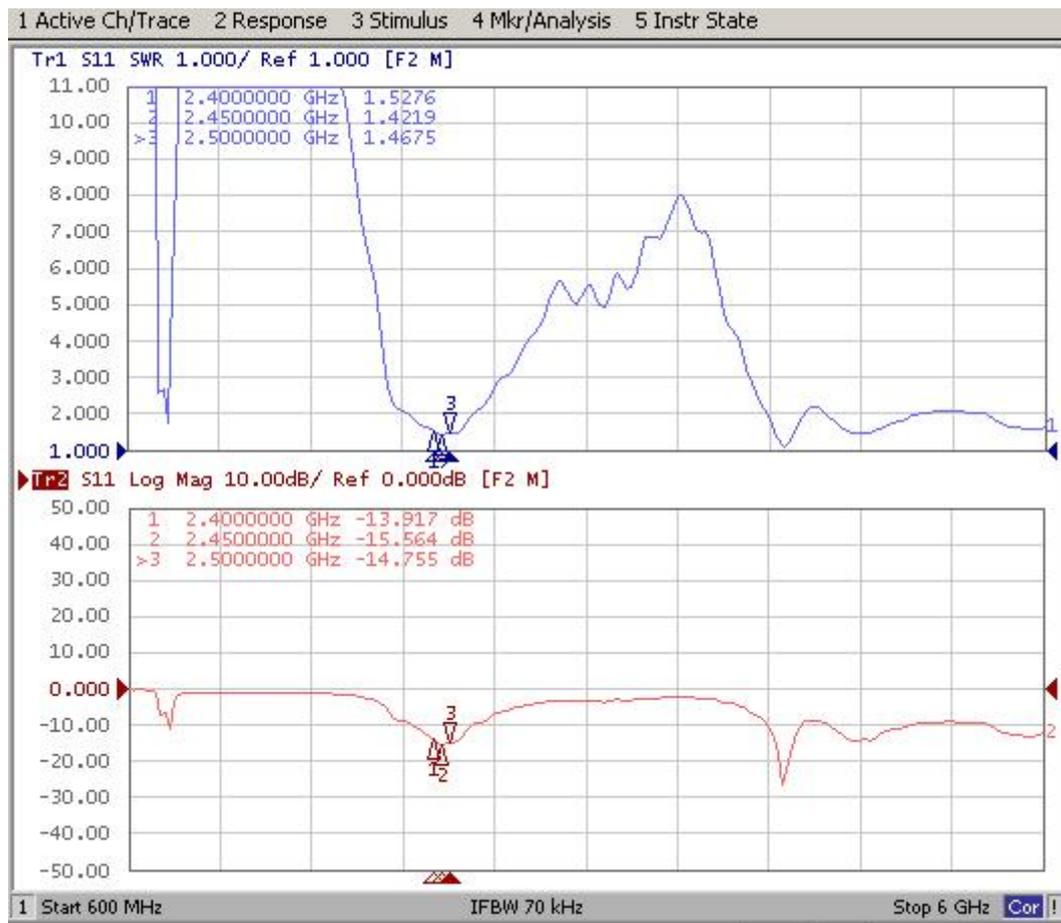
3、Test equipment

	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、Antenna S11

Frequency (MHz)	Return Loss (dB)	VSWR
2400	-13.91	1.52
2450	-15.56	1.42
2500	-14.75	1.46



* Voltage Standing Wave Ratio(VSWR)

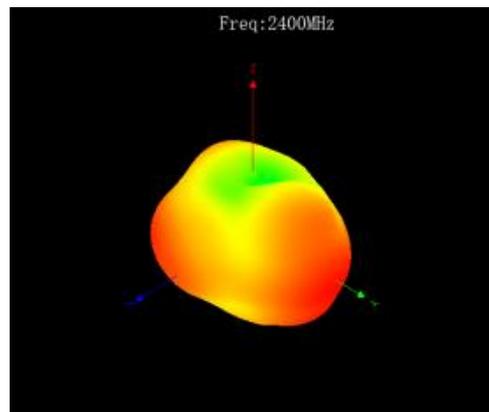
Return Loss(RL)

$$RL=20*\log_{10}[(VSWR+1)/(VSWR-1)]$$

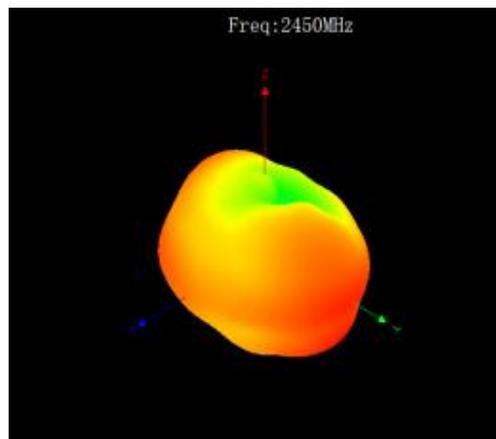
5、Antenna Efficiency&Gain

Frequency / MHz	Efficiency / %	Gain/ dBi
2400	72.28	2.82
2410	70.15	2.7
2420	72.95	3
2430	68.55	2.42
2440	69.5	2.31
2450	66.99	2.72
2460	62.09	1.99
2470	66.07	2.57
2480	64.86	2.47
2490	65.31	2.05
2500	66.68	2.4

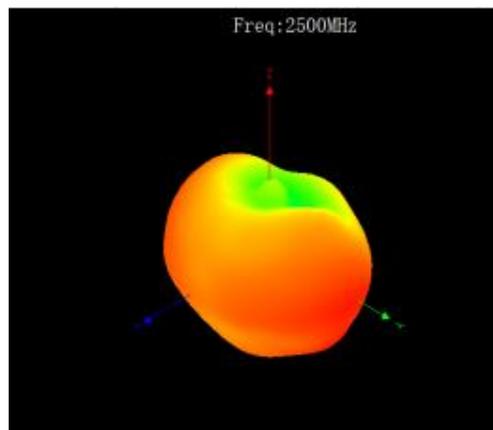
6、Antenna 2D/3D Radiation direction



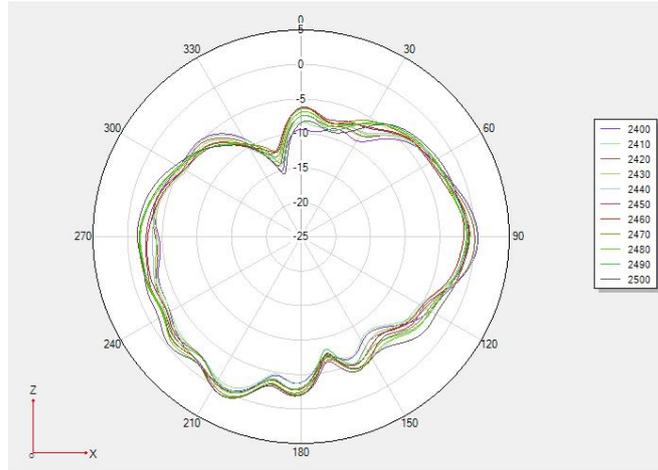
2400MHz



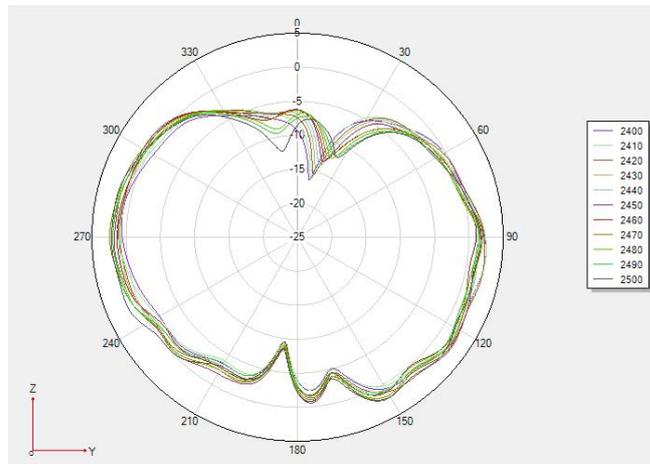
2450MHz



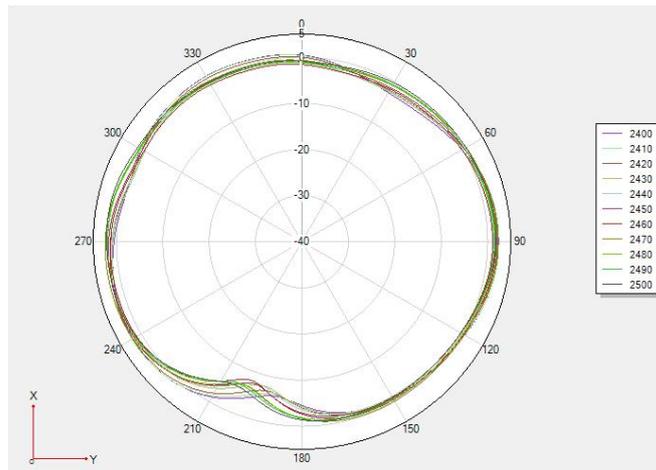
2500MH



Phi 0 2D



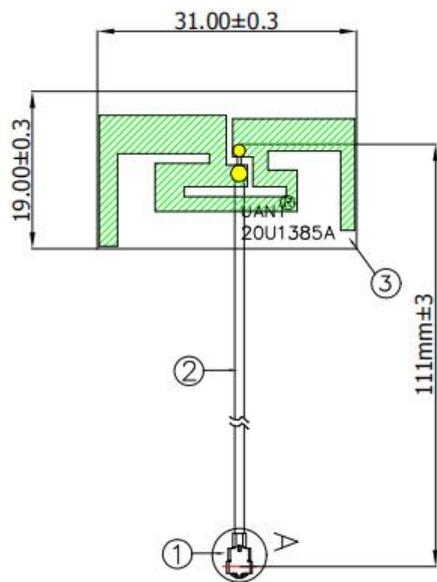
Phi 90 2D



Theta 90 2D

7、 Full Size Test Report

Full dimensional inspection report			
customer name	Anker	drawing number	V01
project name	External antenna	data unit	mm
Part code/material number	UB01C128F2D4918A	examination date	2025. 4. 22



order number	dimensional requirement	survey tools	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	judge	Customer comments, review comments
1	111±3	steel rule	111.06	111.07	111.10	111.05	111.06	OK	
2	31±0.3	callipers	31.05	31.04	31.03	31.05	31.04	OK	
3	19±0.3	callipers	19.03	19.05	19.03	19.04	19.04	OK	
4									

Approved: Huangtu Fang;

Reviewed: /;

Inspector: Lu Yingxin.