

Sample acknowledgment

Parts Approval Sheet

Manufacturer: Ketex
Electronics

Supplier

Part name: dual-frequency PCB antenna 3 dBi-478
-137RF gray length 180 without
buckle, KX

Parts Name

Model / Specification:— Customer No.:_____

Type/Spec

Parts No.

brand:_____

Sample quantity: 10 pcs

Brand

Quantity

Sample delivery date: September 19, 2024 document number:___

Send out Date

Document No.

Admit date:_____

edition:_____

Approve Date

Version

Supplier

Customer

Approved By

Prepared By

Engineering Dept.

Quality Dept.

Liang Xing

Wang Li

Specification catalogue

Electrical

parameters- - - - -

- - - - -3 mechanical

parameters- - - - -3

Use and storage

temperature- - - - -

- - - - -4

structural

dimensions — — — — —

— — — — — 5 reliability

experiment- - - - -6

Use environment

requirements- - - - -6 test

data- - - - -

- -7-9



I. Electrical parameters

Frequency range	2.4-2.5GHz/5.15-5.85GHz
Characteristic impedance	50 Ω
Voltage standing-wave ratio	$\leq 2:1$
Gain	2.5+/-1dB
Power capacity	2W
Polarized form	Horizontal
Radiation direction	Omnidirectional

2. Mechanical parameters

See line long	180 $\pm$ 5mm
Coax	1.37 Gray line

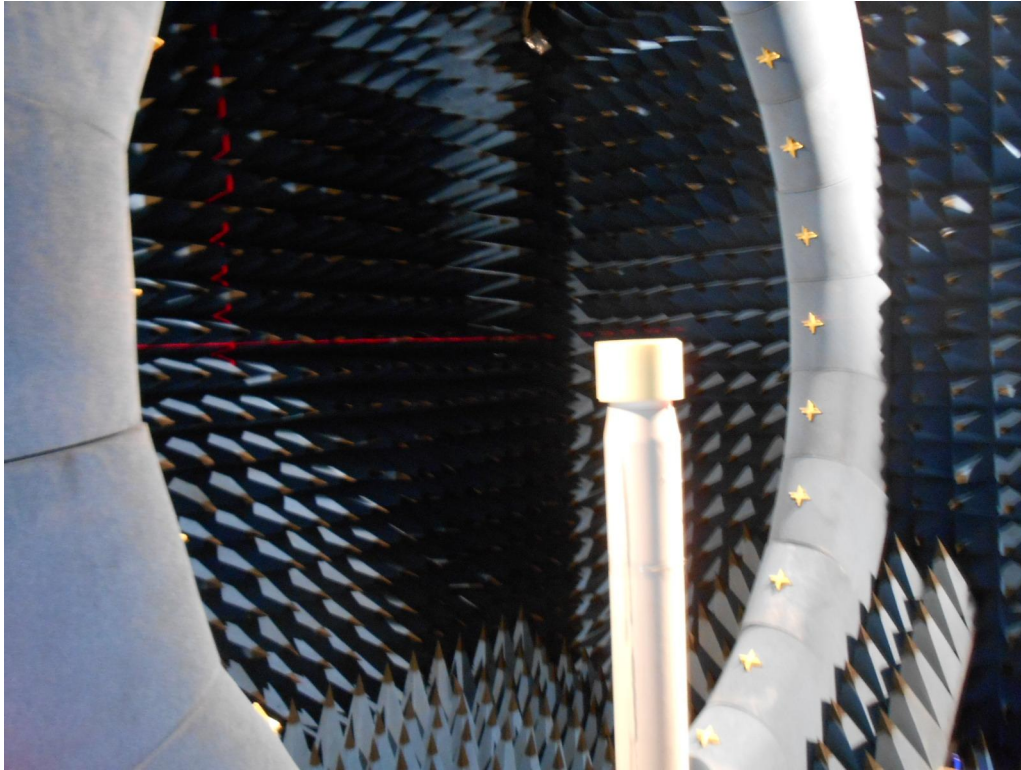
III. Working / storage temperature

Working temperature	-30 $^{\circ}$ C $\sim$ 65 $^{\circ}$ C
Storage temperature	-30 $^{\circ}$ C $\sim$ 75 $^{\circ}$ C

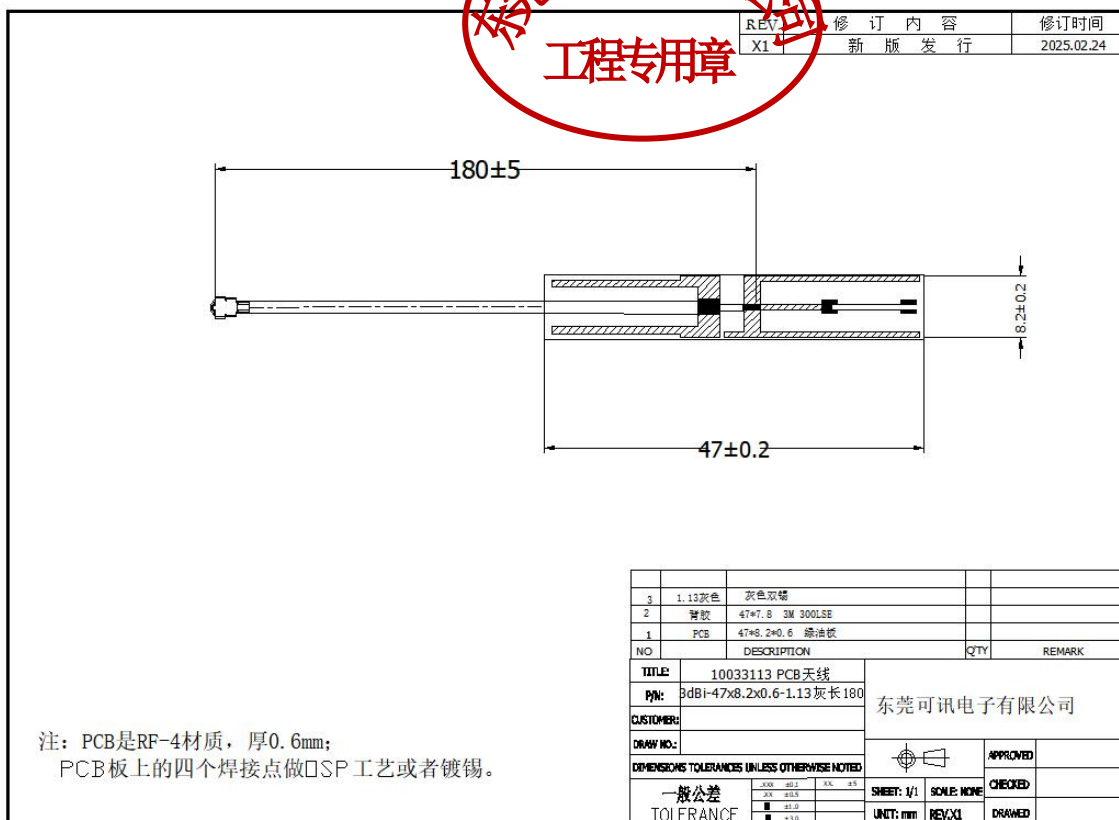


Iv. Test equipment:

SATIMO 24SG



V. Structural size diagram

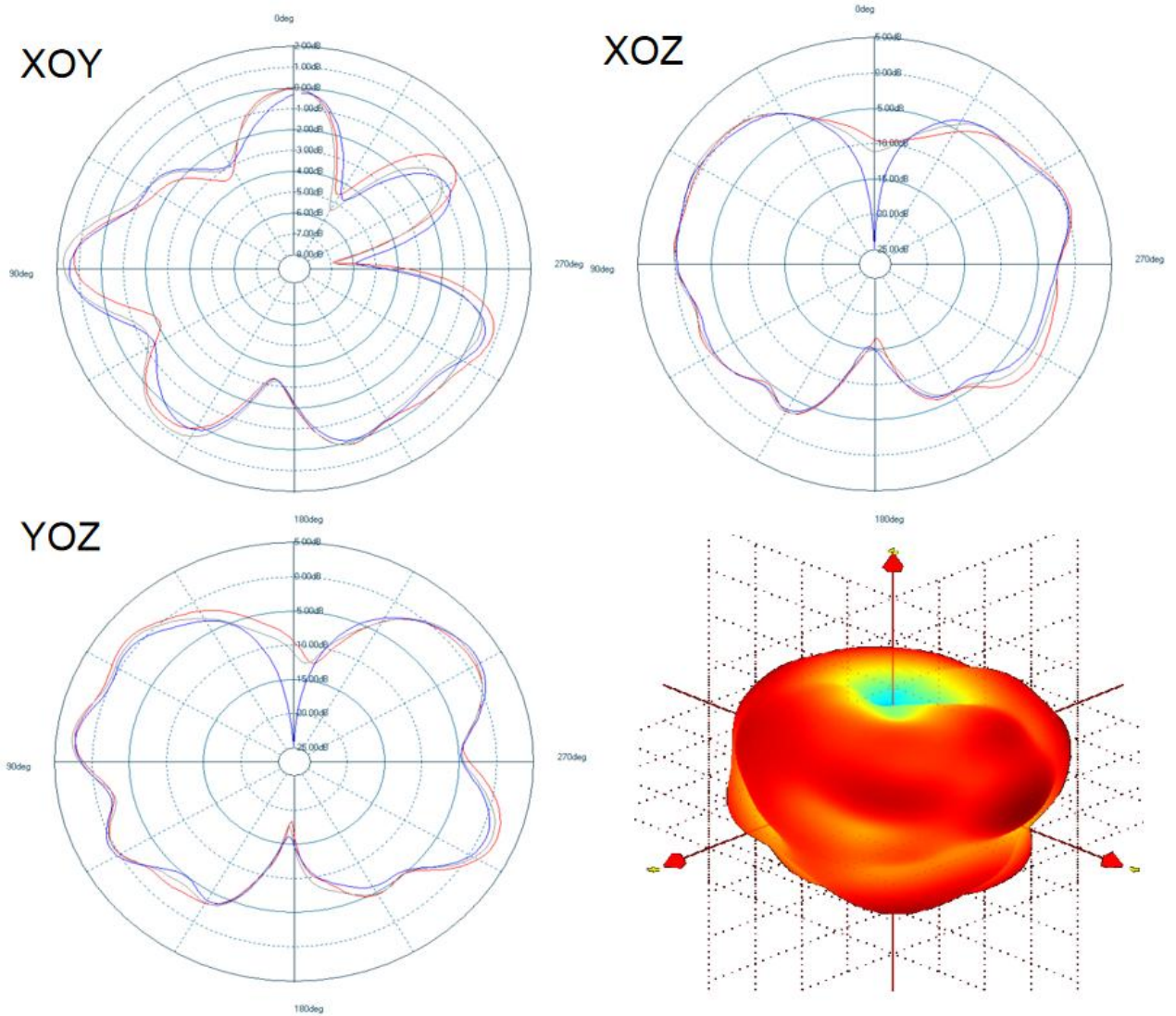


Vi. Notes for use: No

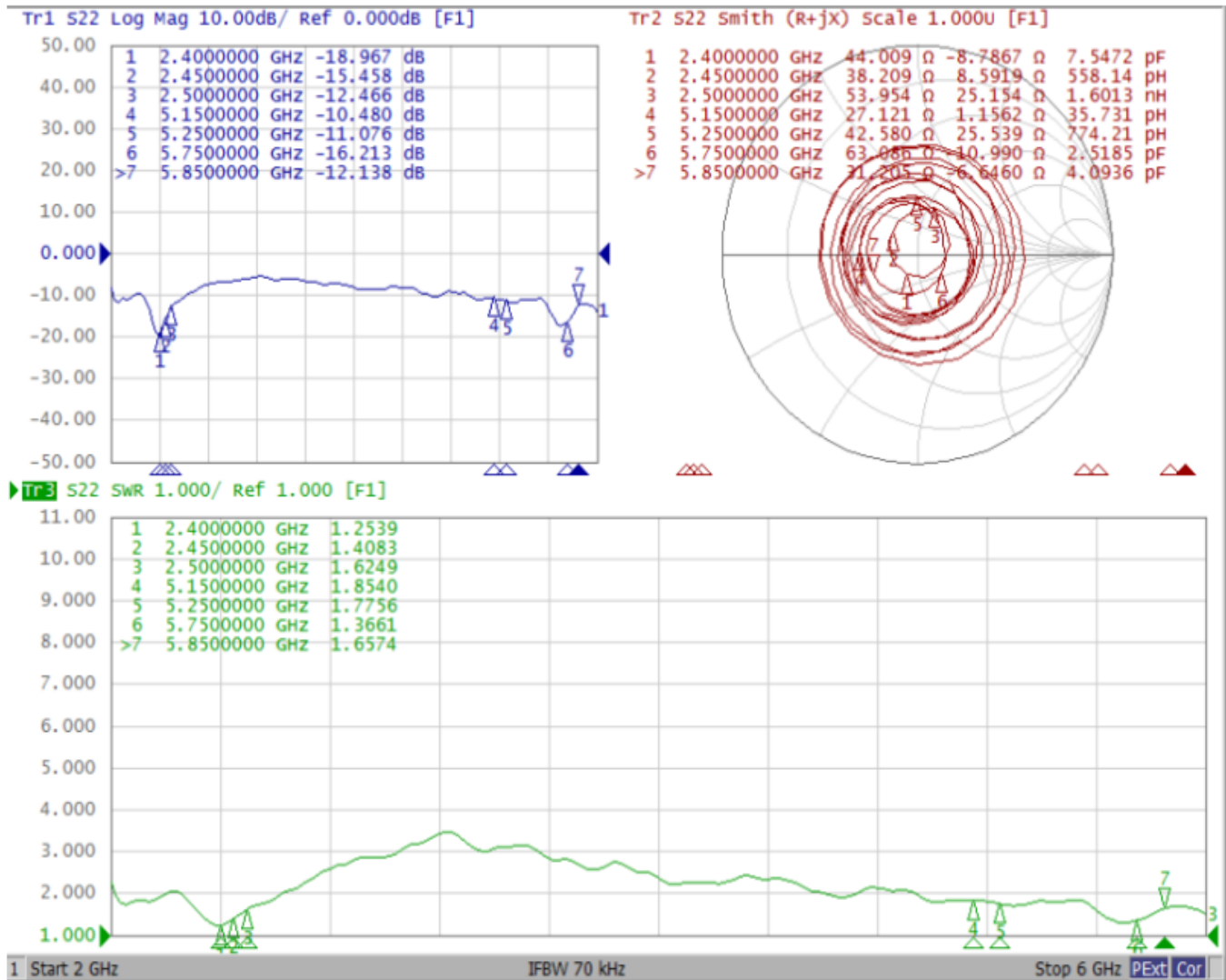
Vii. Environment and reliability experiment

Project	Experiment condition	Performance requirement	Test / test the equipment
Low temperature storage	Temperature-30 ± 2 / humidity 0% / RH / time 48H	No impact on the appearance and functional tests after the test	Constant temperature and humidity testing machine
High temperature and high humidity storage	Temperature-70 , humidity 90~95% / RH time 48H	No impact on the appearance and functional tests after the test	Constant temperature and humidity testing machine
Temperature ictus	Product environment: -35 for 2H to 80 for 2H for 12 cycles of 48H	No impact on the appearance and functional tests after the test	Cold and hot shock test machine

3 2D/3D Radiation Pattern Results



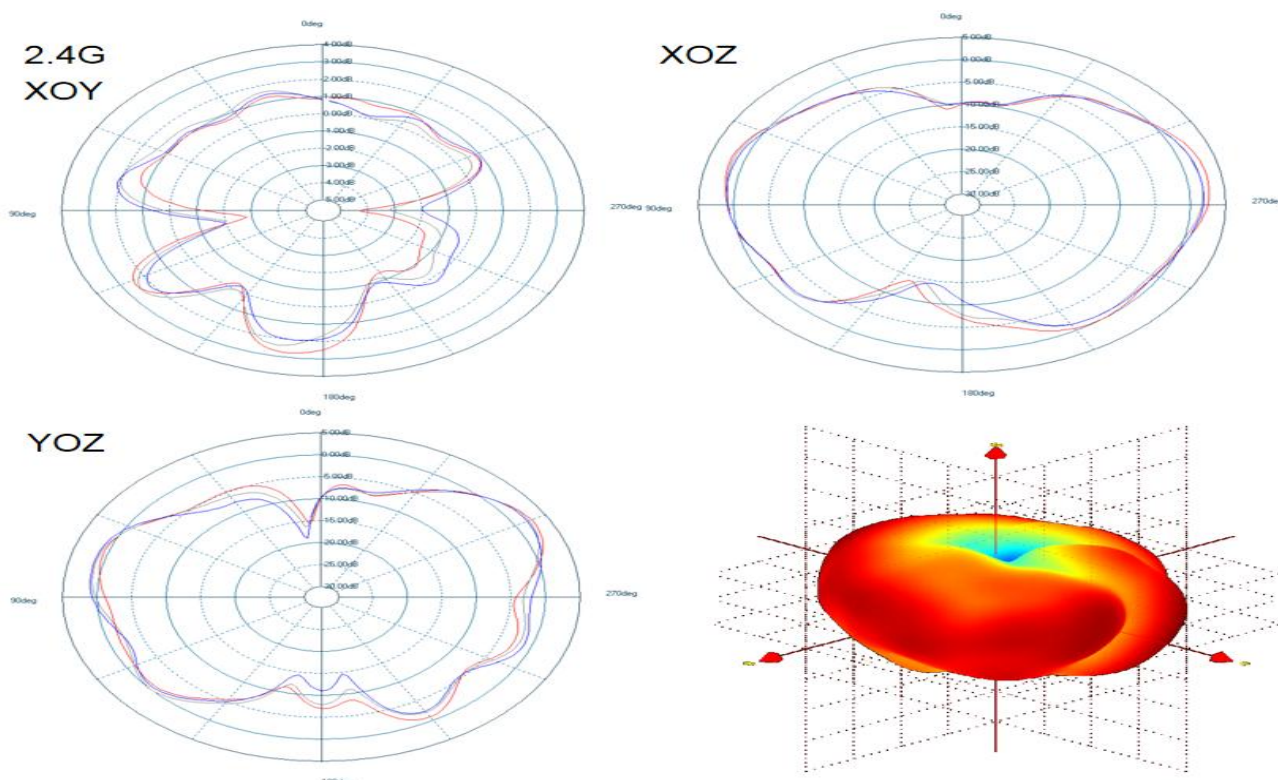
(2.4GHz&5.8GHz)



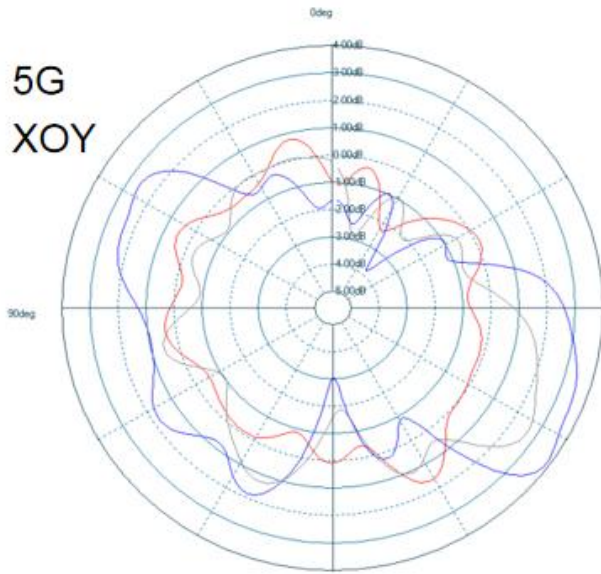
2、 No-source test data

Frequency	Efficiency	Efficiency	Gain . dB
2.4E+09	71%	-1.47	3.23
2.41E+09	72%	-1.42	3.38
2.42E+09	73%	-1.39	3.20
2.43E+09	72%	-1.43	3.06
2.44E+09	72%	-1.42	2.84
2.45E+09	70%	-1.56	2.62
2.46E+09	71%	-1.49	2.61
2.47E+09	69%	-1.62	2.60
2.48E+09	68%	-1.70	2.40
2.49E+09	70%	-1.53	2.15
2.5E+09	71%	-1.46	2.27
5.15E+09	62%	-2.08	3.19
5.2E+09	58%	-2.34	2.95
5.25E+09	58%	-2.34	2.59
5.3E+09	59%	-2.27	3.30
5.35E+09	57%	-2.41	3.72
5.4E+09	58%	-2.38	3.38
5.45E+09	60%	-2.22	3.16
5.5E+09	58%	-2.35	3.07
5.55E+09	60%	-2.25	2.96
5.6E+09	60%	-2.22	3.40
5.65E+09	58%	-2.34	3.54
5.7E+09	59%	-2.30	3.98
5.75E+09	61%	-2.13	3.98
5.8E+09	59%	-2.26	4.04
5.85E+09	59%	-2.33	3.98

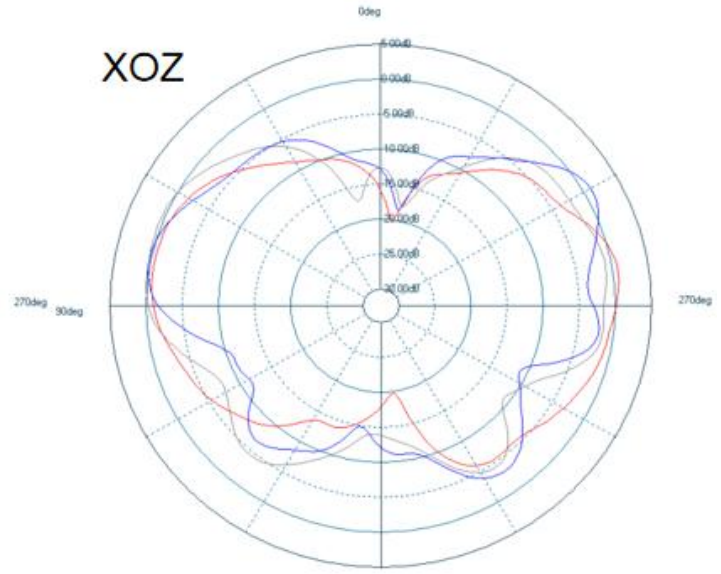
3 2D/3D Radiation Pattern Results



5G
XOY



XOZ



YOZ

