



REPORT No. : SZ20060216E01

TEST REPORT

address No. 23, Zhenxing North Road, Xie Gang Town,
Dongguan City

APPLICANT : ZHUHAI YONGTAI ELECTRONIC CO., LTD.

PRODUCT NAME : PCB Antenna

MODEL NAME : 2.4G Antenna

TRADE NAME : N/A

BRAND NAME : N/A

STANDARD(S) : ANSI/IEEE Std 149-2008

RECEIPT DATE : 2020-06-16

TEST DATE : 2020-06-17

ISSUE DATE : 2020-06-19



2hco etion

Edited by: _____
Zhao Zetian(Rapporteur)

Approved by: _____
Chi Shide(Supervisor)

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MORLAB

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Change History		
Version	Date	Reason for change
1.0	2020-06-19	First edition

1. Technical Information

Note: Provide by manufacturer.

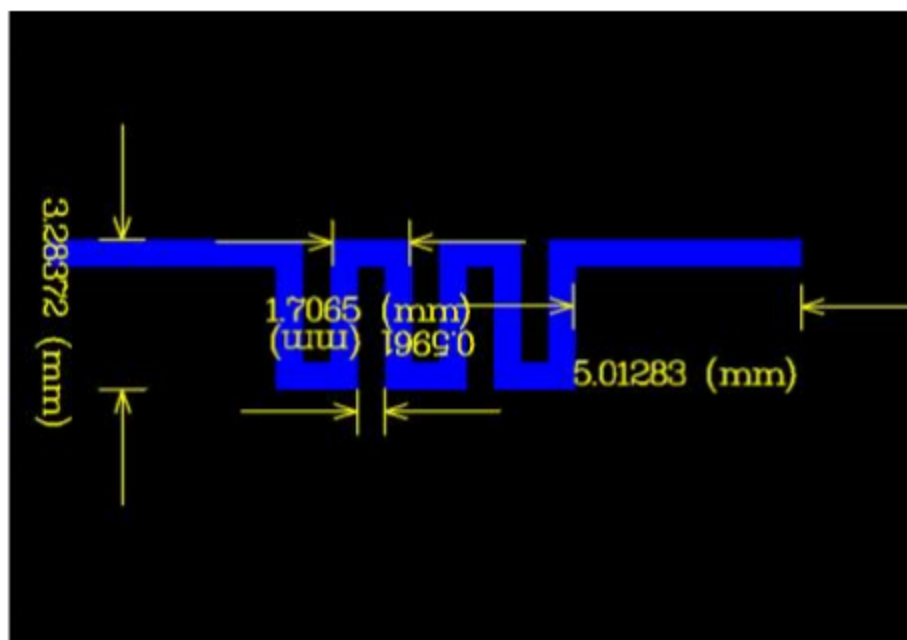
1.1. Applicant and Manufacturer Information

Applicant:	ZHUHAI YONGTAI ELECTRONIC CO., LTD.
Applicant Address:	No.25,Jingfeng Rd.West,Jingding industrial park, Tangjiawan(Jingding) Town, Zhuhai City, China
Manufacturer:	N/A
Manufacturer Address:	N/A

1.2. Equipment Under Test (EUT) Description

Frequency	N/A
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Dimensions:



2. Test Results

2.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	ANSI/IEEE Std 149-2008	IEEE Standard Test Procedures for Antennas

2.2. Test Conditions

Test Environment Conditions :

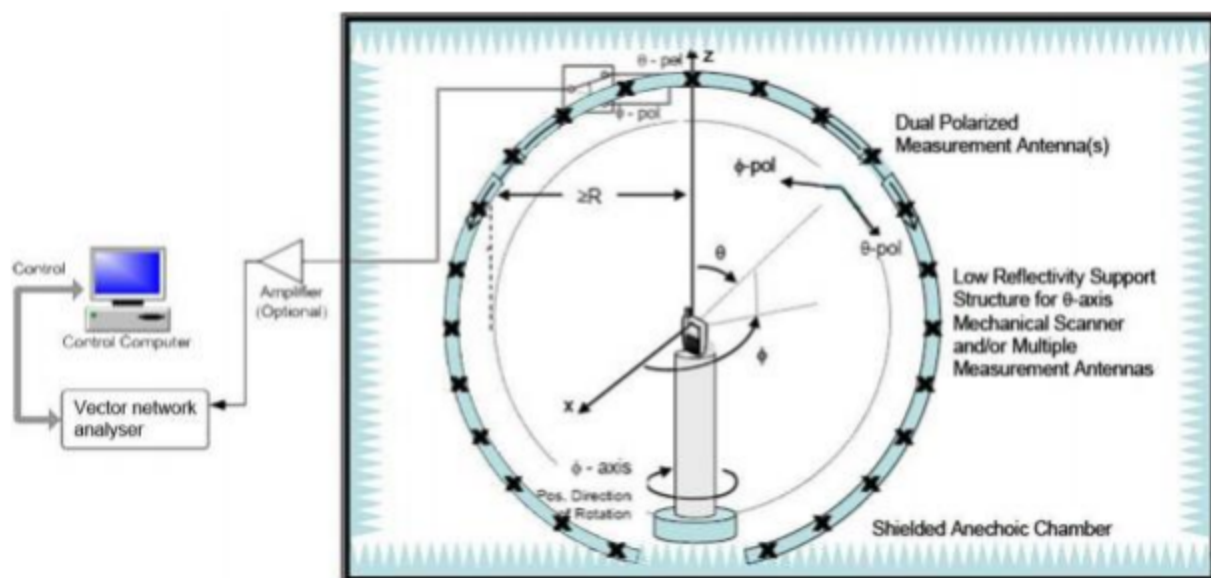
Relative Humidity:	25 ... 75 %
Temperature:	+10 °C to +30 °C

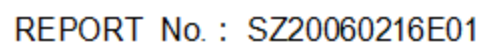
2.3. Test Results lists

2.3.1. Gain

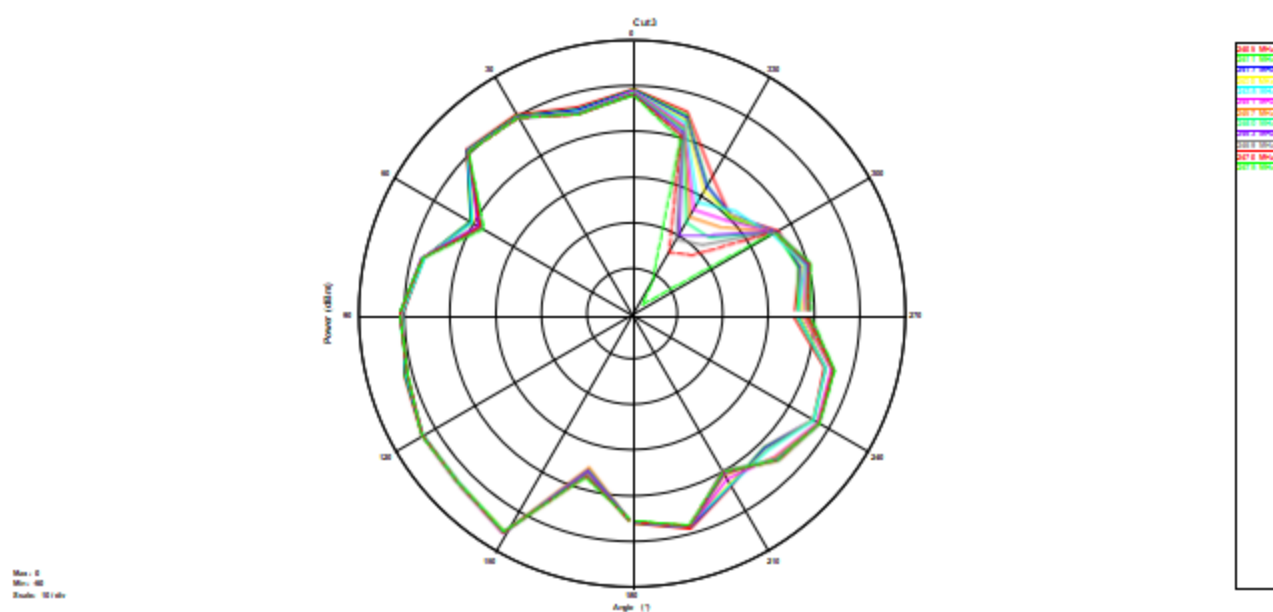
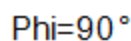
Frequency(MHz)	Gain(dBi)
2405	-2.32
2411	-2.42
2417	-2.42
2430	-2.48
2435	-2.38
2451	-2.19
2457	-2.30
2460	-2.26
2463	-2.36
2469	-2.24
2470	-2.28
2475	-2.22

Annex A Test Setup



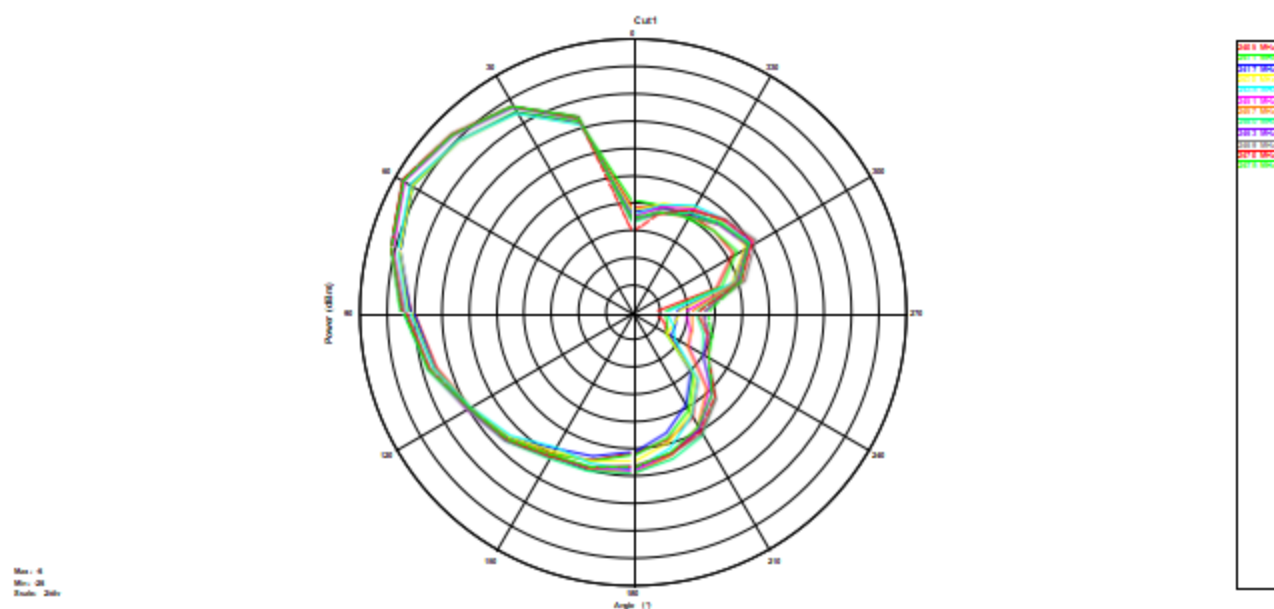


1. 2D Radiation Pattern

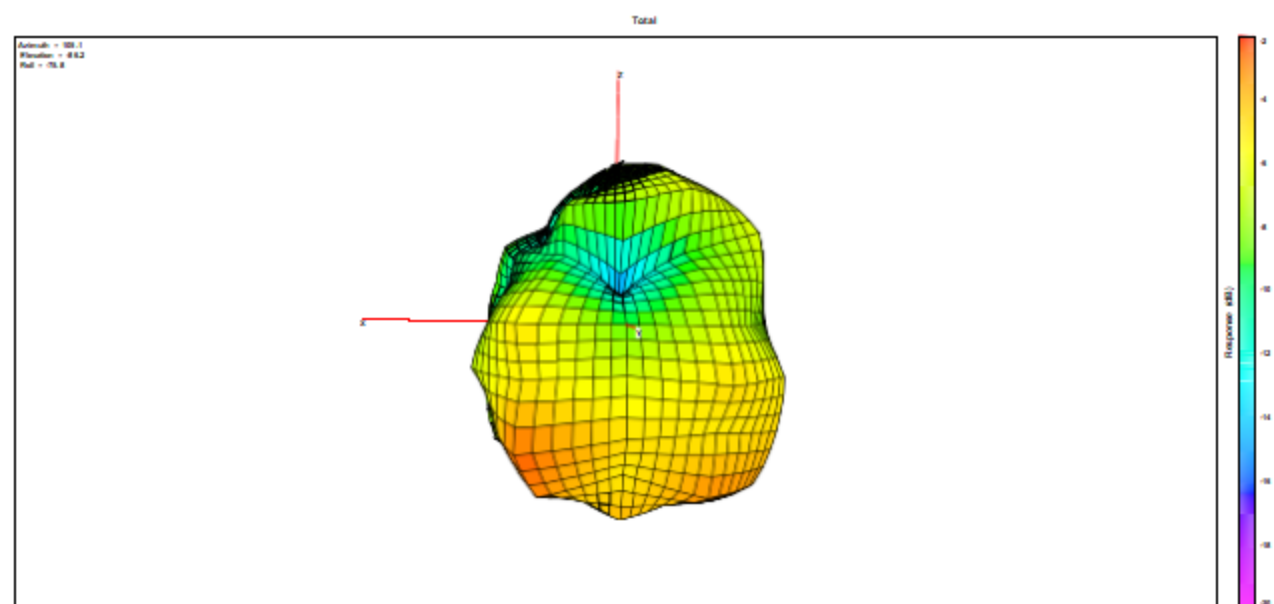
 $\Phi = 0^\circ$ 



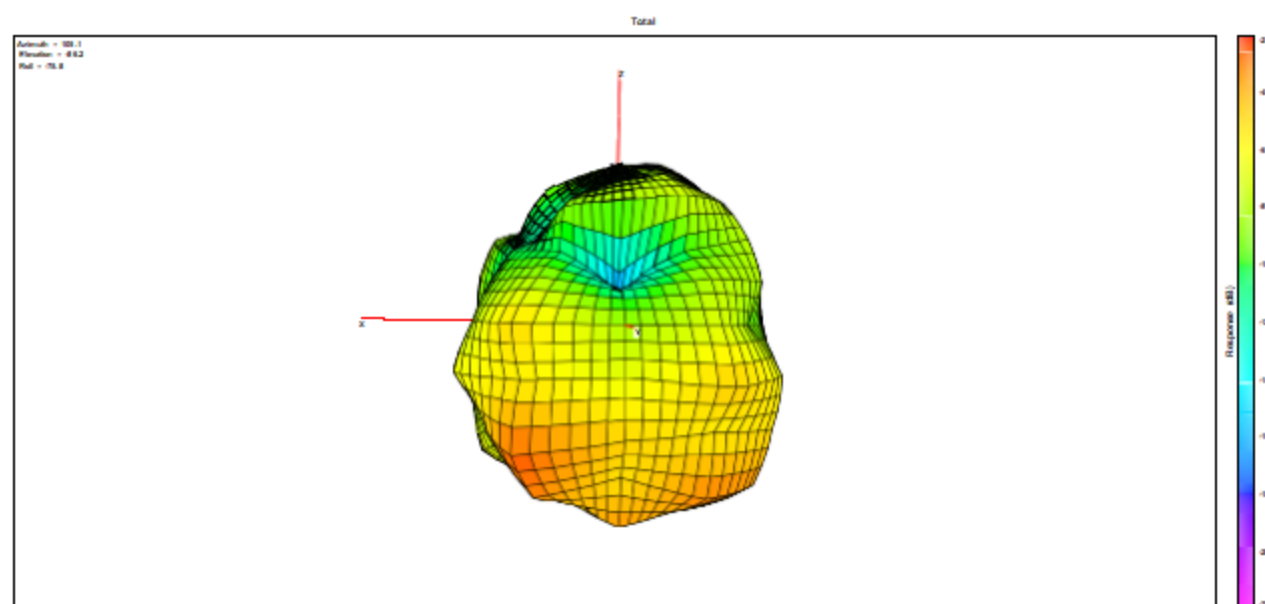
Theta=90°



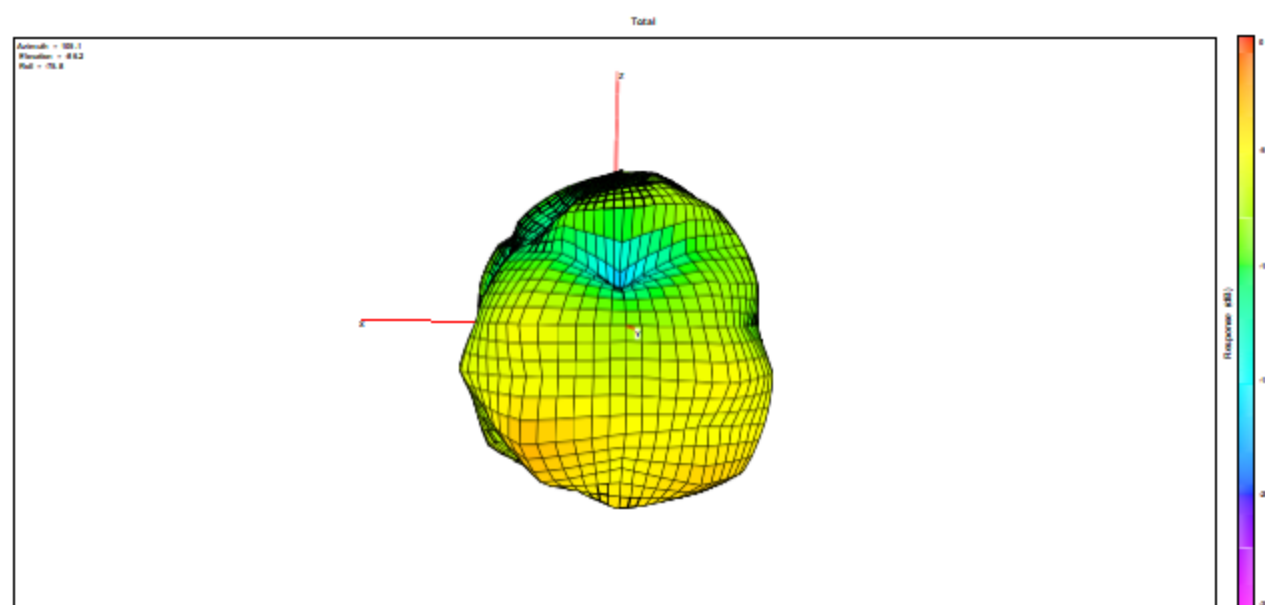
2. 3D Radiation Pattern



2405MHz



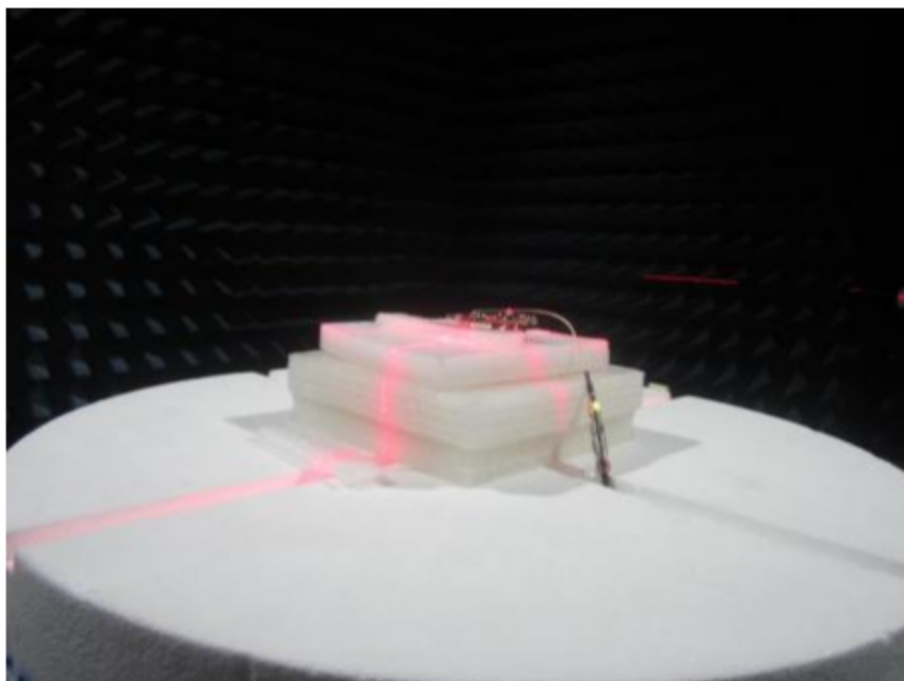
2457MHz



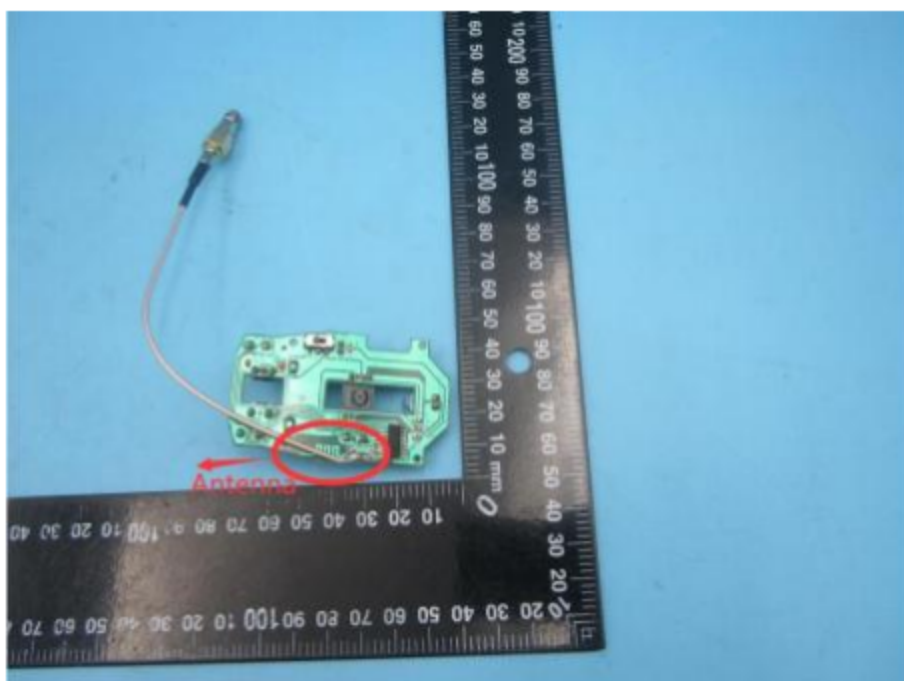
2475MHz

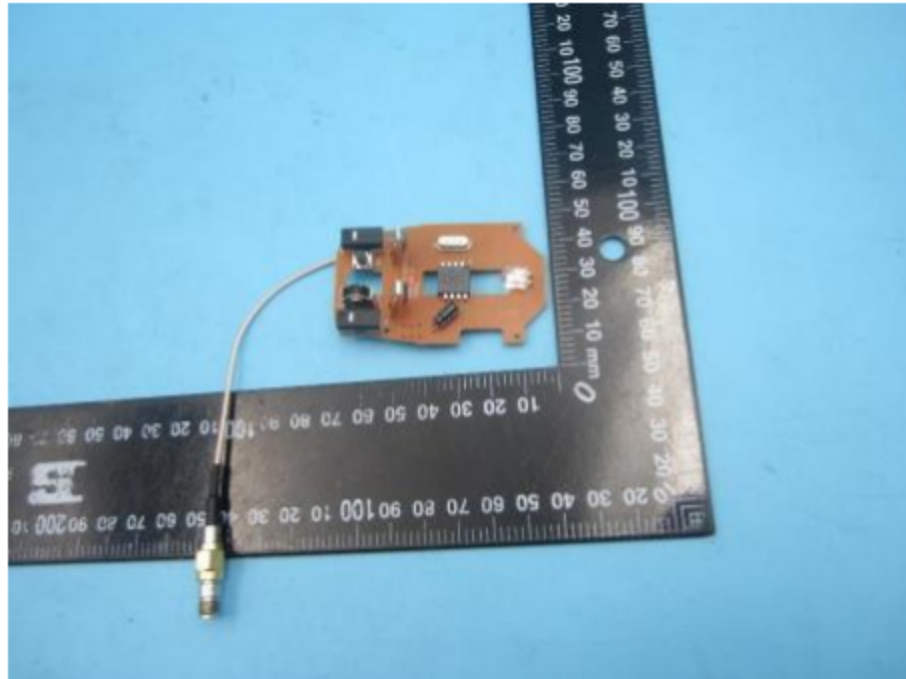
Annex C Photographs

1. Test environment



2. EUT



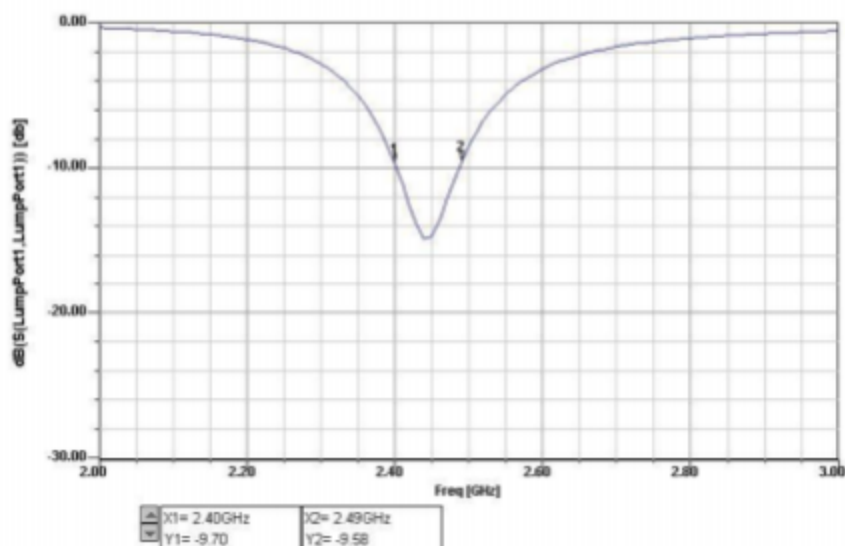


PCB Antenna Simulation

(S11)

Ansoft Corporation
XY Plot 1
HFSSDesign1

BW(RL<10dB): 90 MHz





Annex D General Information

1.1 Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Laboratory Address:	FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

1.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

1.3 Test Equipments Utilized

1.3.1 List of Test Equipment

No.	Type	Specification
1	E5071C Vector Network Analyzer	Manufacturer: Agilent
2	4*4*4 Full Anechoic Chamber	Manufacturer: ETS
3	Multi-probe Antenna Measurement System	Manufacturer: ETS

————— END OF REPORT —————