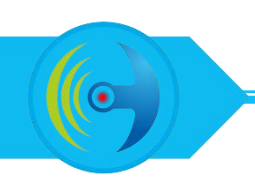


The background features a blue gradient with abstract network graphics. At the top, a dense cluster of white dots is connected by thin white lines, with several lines extending downwards. At the bottom, a similar but less dense cluster of dots and lines is visible, with lines extending upwards. The text "Professional antenna serviceprovider" is centered in the middle of the image.

Professional antenna serviceprovider

SHENZHEN FEIMIN TECHNOLOGY CO.,LTD.



Antenna Specifications

Item model VF16F

Antenna model

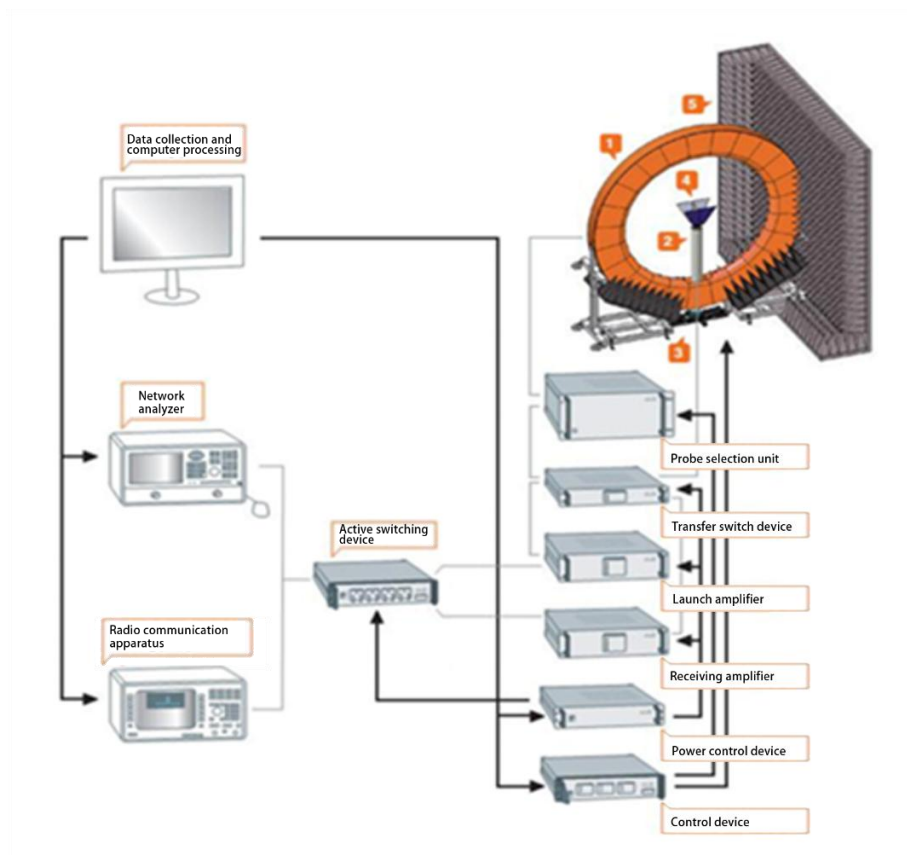
Testers

Auditors

Date 2026-8-25



Test equipment and test environment

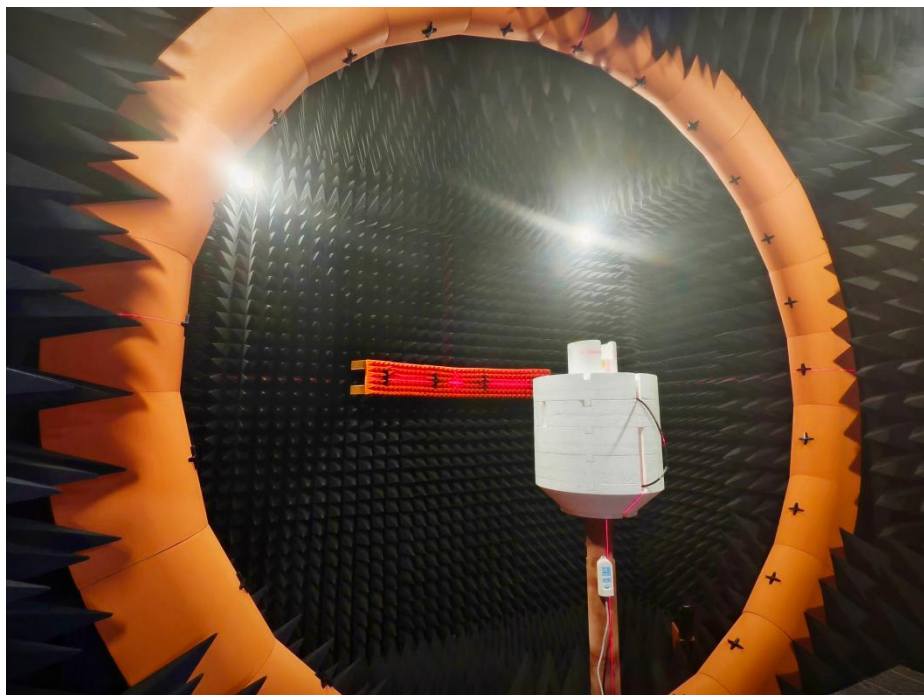


Test Environment Conditions:

RelativeHumidity	15 ... 75 %
Temperature	+10 ° C ~ +30 ° C



Test equipment



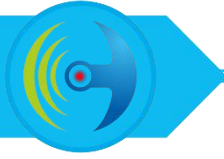
Probe microwave anechoic chamber

➤ Frequency Range : 0.4GHz-12GHz

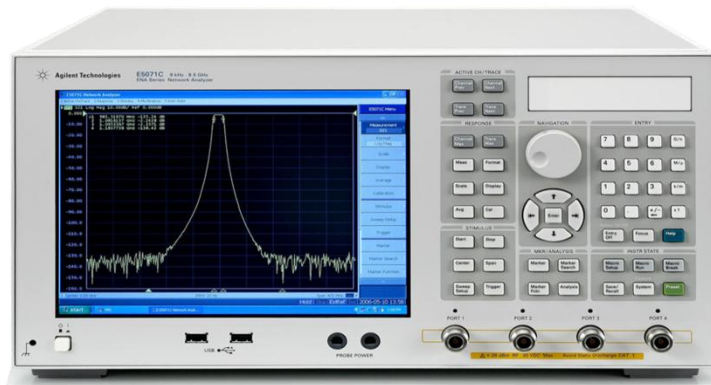
Main test indicators

- ◆ Passive indicators
- ◆ Gain
- ◆ Effectiveness
- ◆ 3D pattern

- Active indicator
- TRP total radiated power
- TIS total receiving sensitivity



Test equipment



Agilent E5071C Vector network analyzer

- Frequency Range : 300 kHz - 8.5GHz

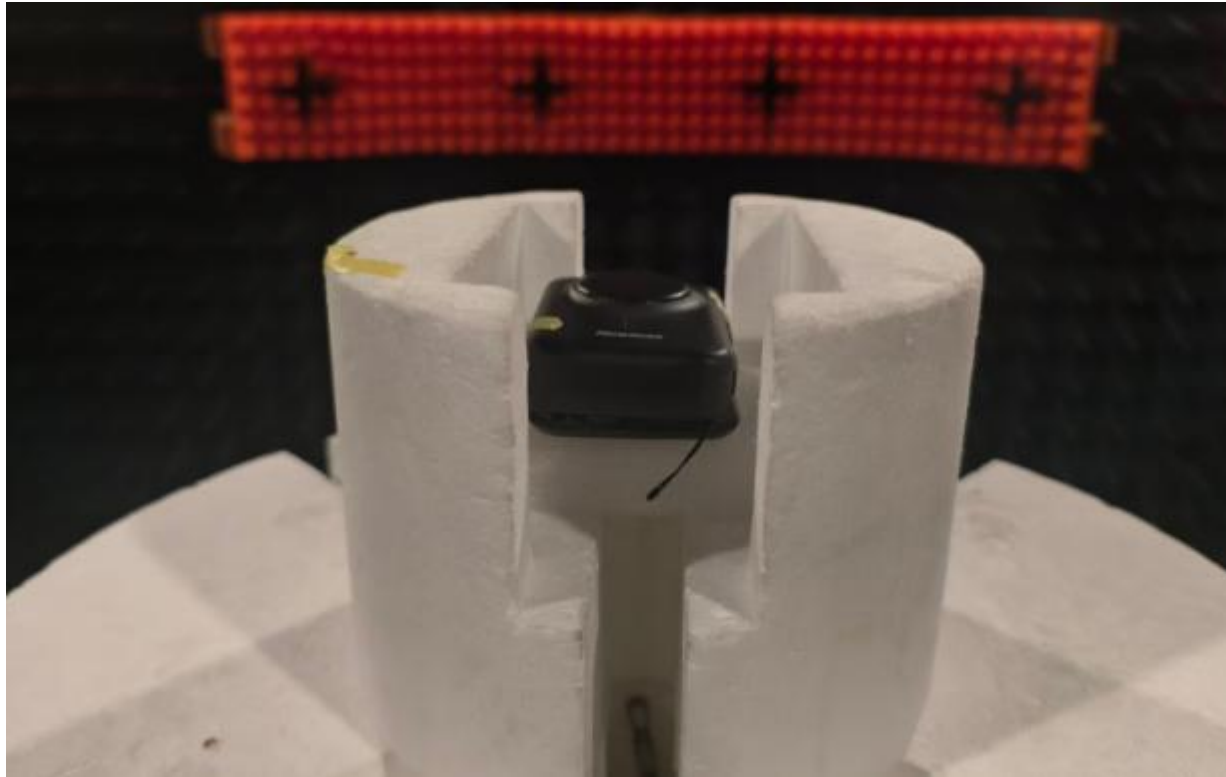


R&S CMW500 Broadband wireless communication tester

- GSM/3G/4G/e-MTC
- WIFI/ Bluetooth
- NB-IoT



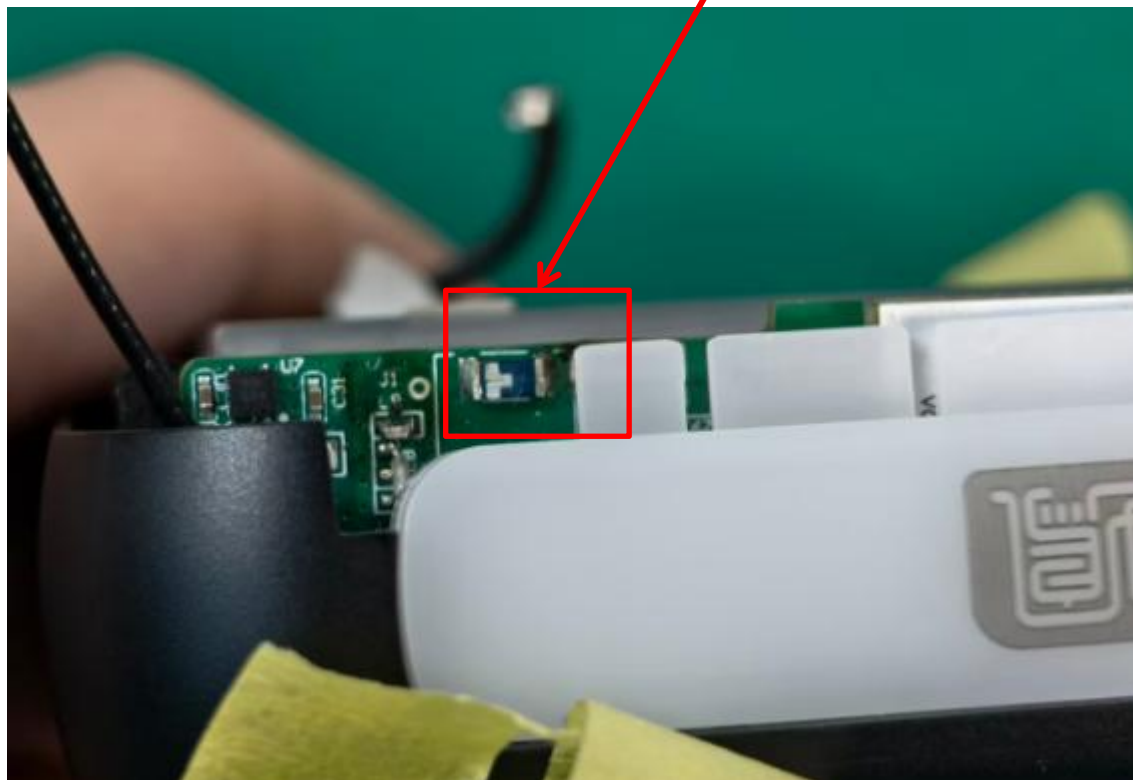
Test Photo





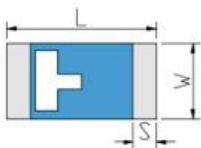
Passive antenna data

Passive antenna data





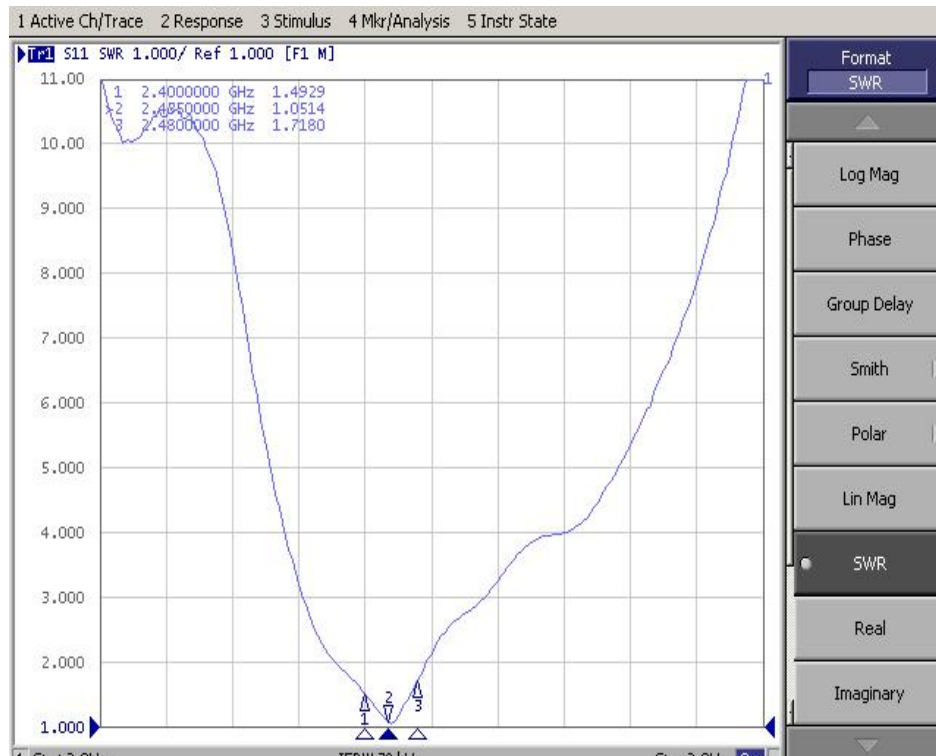
Appearance and Dimensions



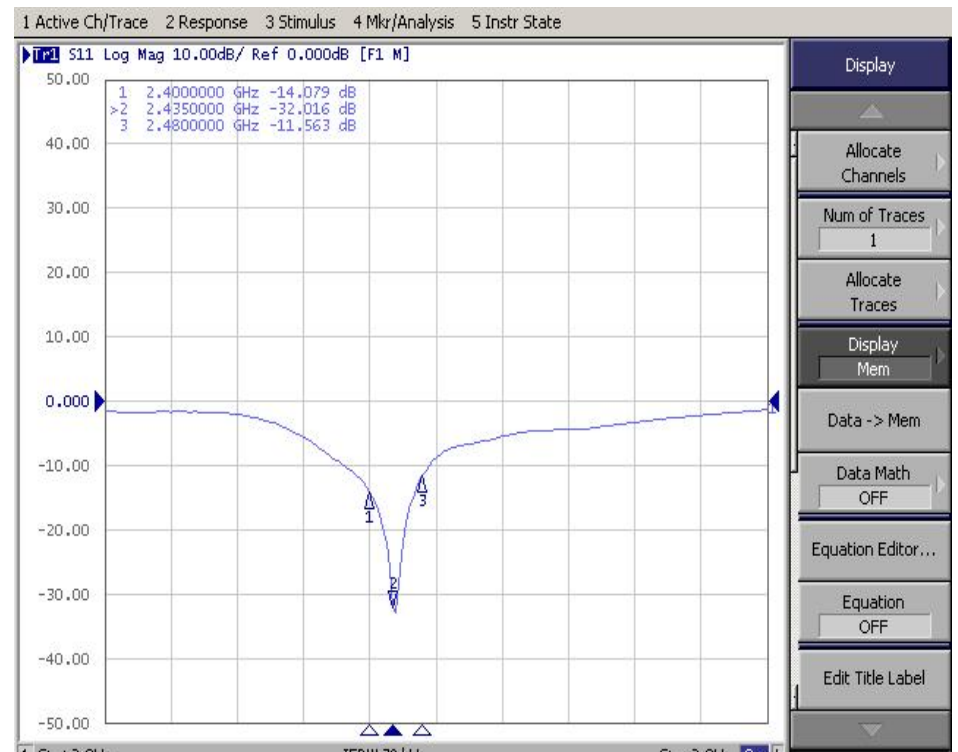
Symbol	Dimension (mm)
L (长度)	3.2 ± 0.20
W (宽度)	1.6 ± 0.20
T (厚度)	1.0 ± 0.20
S (电极宽度)	0.4 ± 0.20



Antenna SWR



Antenna Return loss



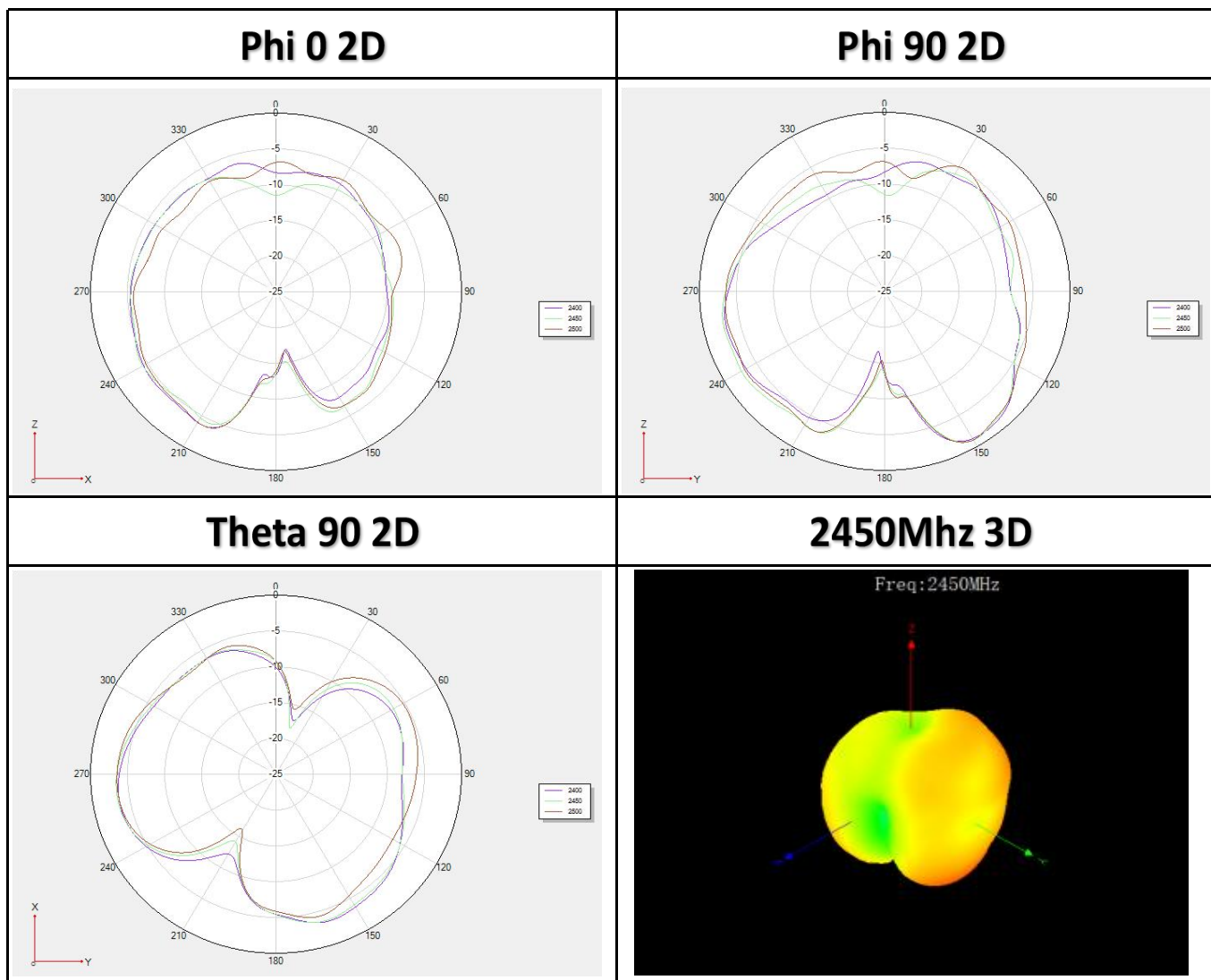


Antenna gain and efficiency

Freq(MHz)	Efficiency (%)	Gain(dBi)
2400	25.55	0.42
2410	25.88	0.63
2420	26.27	0.71
2430	28.92	0.78
2440	31.38	0.89
2450	32.59	0.83
2460	30.04	0.75
2470	29.18	0.67
2480	28.33	0.57
2490	27.96	0.53
2500	25.71	0.31

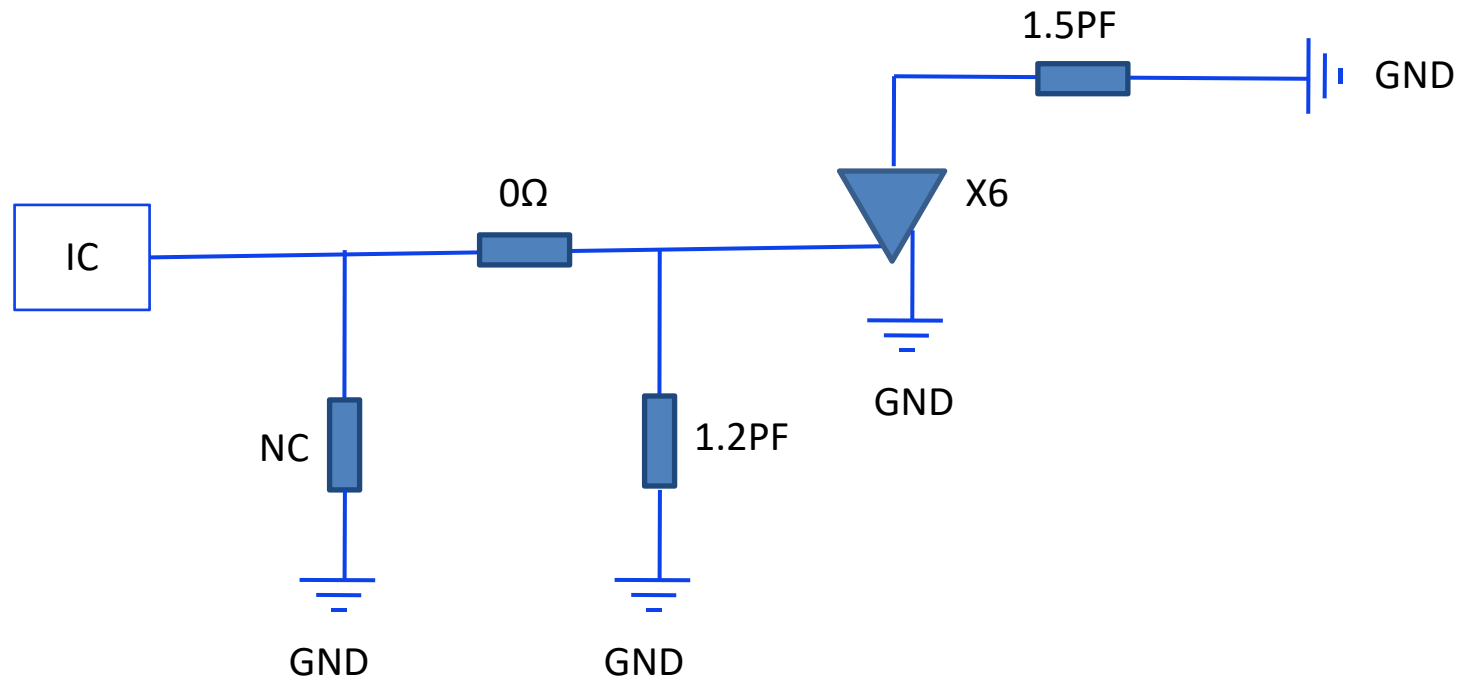


Antenna Radiation Pattern





Antenna matching parameters



Thanks for your support!

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E-mail:ant001@fmant.cn

Room 801, 8th Floor,Keyunnda E-commerce Base,No. 4 Shenghui Road, Guxing Community,Xixiang Street,Bao'an,District,Shenzhen

深圳市恒立达科技有限公司

shenzhen henglida technology co. Ltd.

测试报告 (test report)

项目型号 (Project model) : HLD-K16DA-NW

客户名称 (CustomerName) : 北京纽曼凤凰科技有限公司

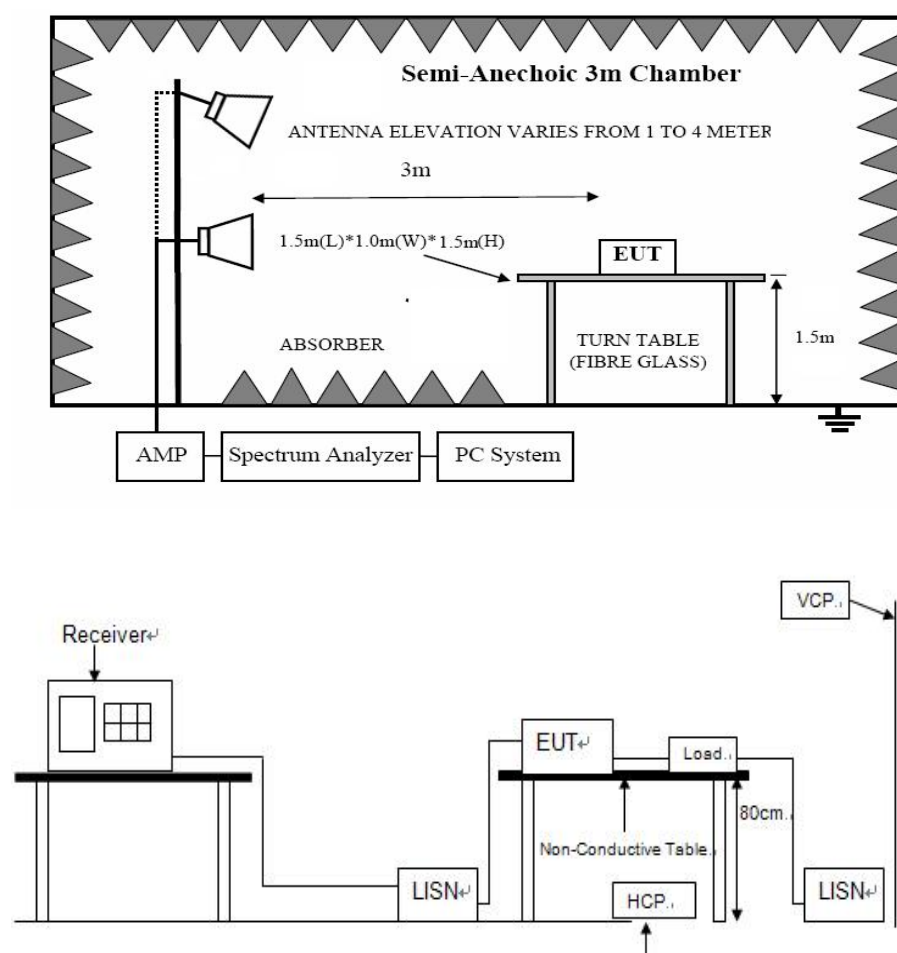
(Beijing Newman Phoenix Technology Co., Ltd.)

测试工程师 (Test Engineer) : 李裕鹏 (li yu peng)

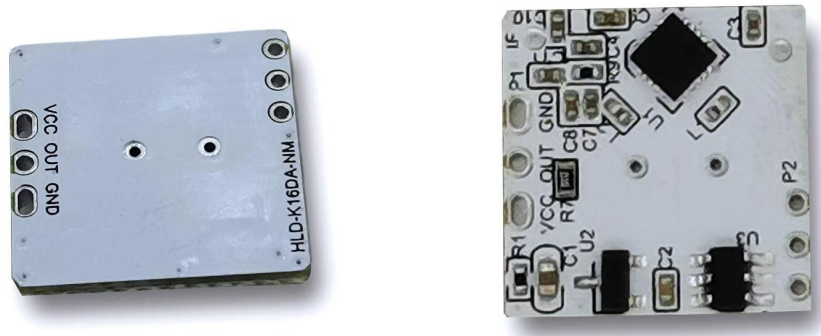
审核工程师 (Audit Engineer) : 李伟 (li wei)

日期 (date) : 2025-12-11

测试设备和环境 (Test equipment and test environment)



样机照片：（DUT Photo）



样机天线参数 （Antenna parameters）

天线类型（Antenna Type）：板载天线（On-board antenna）

工作频率（Frequency of work）：5725-5875 MHz

中心频率（Center frequency）：5800MHZ

增益（Gain）：3 DBi

天线尺寸（Antenna size）：15*15*2.0 mm

辐射方向(Radiation direction): 120°

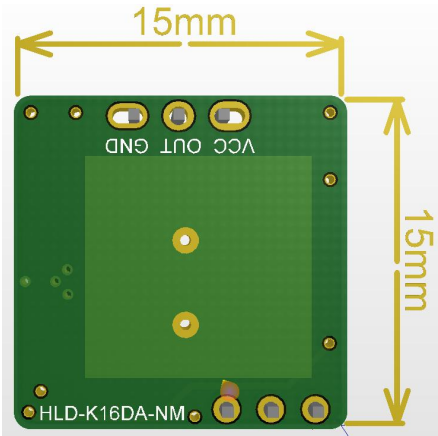
馈电阻抗(Impedance): 50 Ohm

重量(Weight): 无要求 No requirements

工作温度(Operatin Temp): -30-85℃

储存温度(Storing Temp): -30-85℃

尺寸图(size diagram)

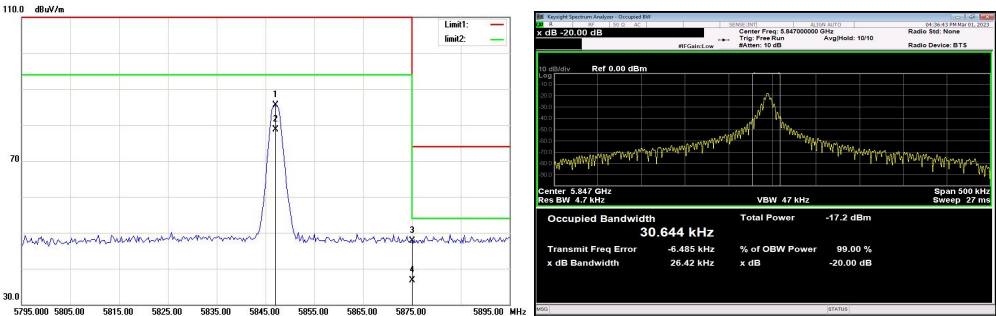


长度(length): 15mm±0.5

宽度(width): 15mm±0.5

厚度(thickness): 2.0mm±0.2

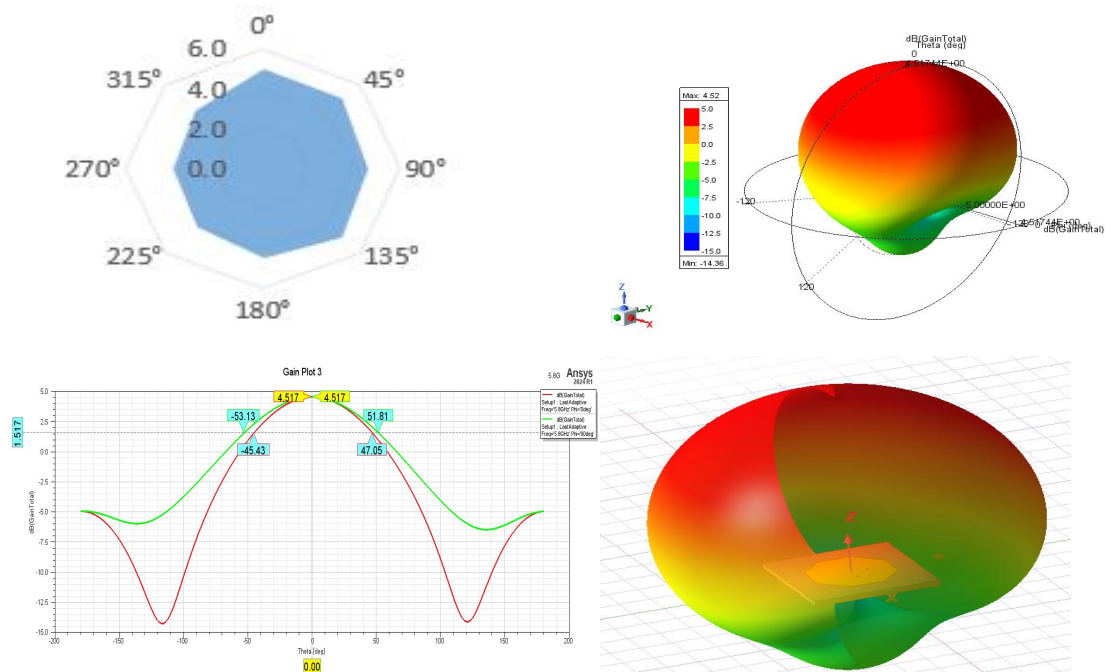
天线驻波回波主频频率 (Antenna; antenna standing wave; antenna echo; main frequency; frequency)



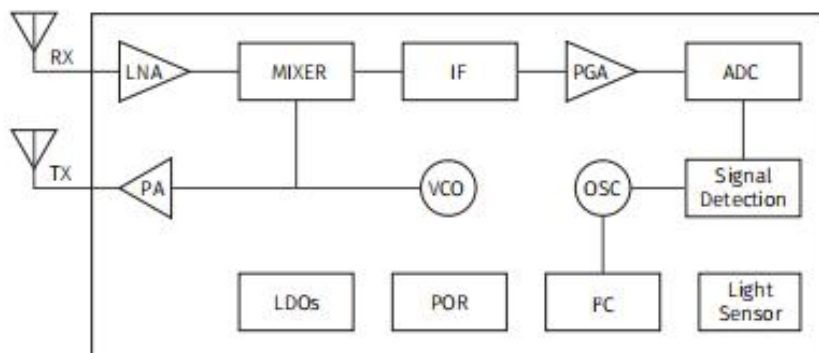
Frequency (MHz)	99% bandwidth (MHz)	20 dB bandwidth (MHz)
5847	0.0306	0.0264

No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5847.000	88.96	-3.46	85.50	114.00	-28.50	peak
2	5847.000	82.17	-3.46	78.71	94.00	-15.29	AVG
3	5875.000	51.19	-3.44	47.75	74.00	-26.25	peak
4	5875.000	40.22	-3.44	36.78	54.00	-17.22	AVG

辐射方向图(Antenna Radiation Pattern)



天线模块框图(Antenna module block diagram)



Tel: 13410397299 Fax: 0755-22141008

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Add: No. 204, Building A, No. 2 Industrial First Road, Xingwei

Community, Fuyong Sub-district, Bao'an, Shenzhen City,

Guangdong Province.