



Shenzhen Ruining Wireless Technology Co., Ltd.

Antenna acknowledgment certificate

Project Name	X6	Frequency band	2.4G
RF design	蒋先至	version	A
Structural design	邹攀	To examine	
Internal part number.	MRN_24_04	Confirm the date	2025/12/18
Project Name：	X6		
Project part number:	BE08.0000.0019		
Client confirmation			
Manufacturer: Shenzhen Ruining Wireless Technology Co., Ltd.			
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Catalog

Antennaacknowledgmentcertificate.....	1
1、Producttestingequipment.....	3
2、Product testing equipment.....	4
2.1 S11 parameter.....	4
2.2 Antennametrics.....	4
2.3 Gainandefficiency.....	5
3、Exteriordimensionsdiagram.....	6

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1、Product testing equipment

The antenna input characteristics were tested using the Agilent E5071C vector network analyzer. The antenna radiation characteristics were tested using the GTS Starlab 3D near-field microwave anechoic chamber, with the instrument RS CMW500 multimeter. The anechoic chamber test coordinates are as follows:

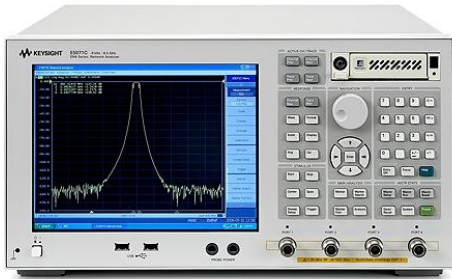


Fig 2-1:E5071C Network analyzer



Fig2-2: RS CMW500 Overall testing instrument

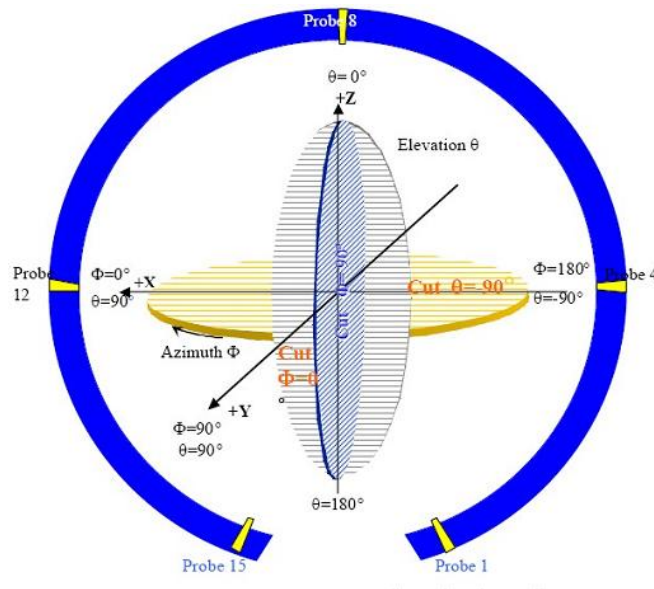


Fig 2-3: 3D Diagram of the coordinate system for dark room testing

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2、Product testing equipment

2.1 S11 parameter

S11 The parameters are shown in the following diagram:

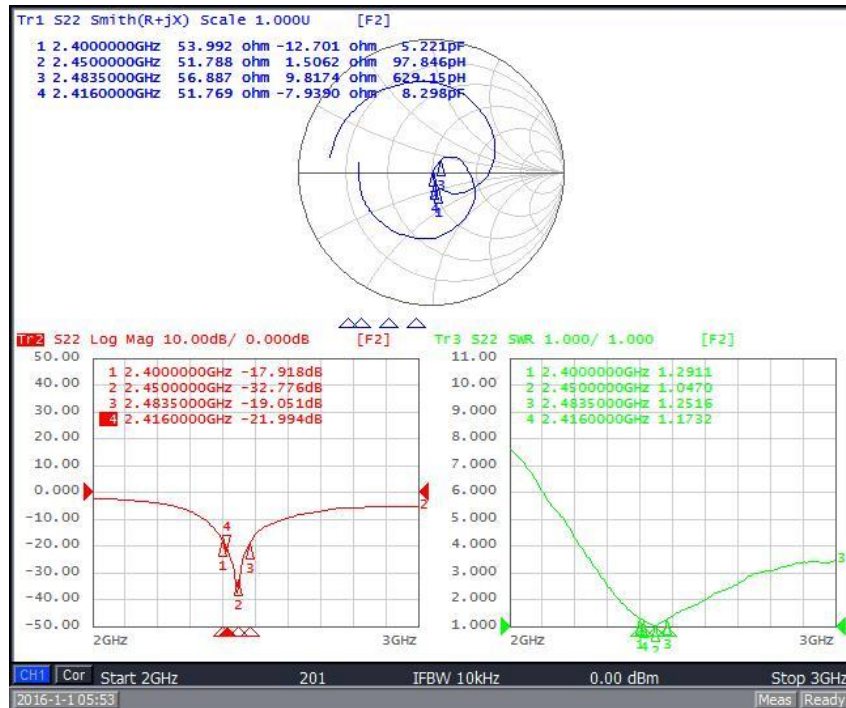


Fig 2-1: V6-BT Antenna S11 Parameter Chart

2.2 Antenna metrics

Central Frequency	2480Mhz
Bandwidth	180(min)Mhz
Return Loss	-10(max)db
Peak Gain	1.47dBi
Impedance	50 Ohm
Operaton Temperature	-40~85°C
Maximum Power	10 W
Resistance to Soldering Heats	10(@260°C)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Termination	Cu/Sn(Leadless)

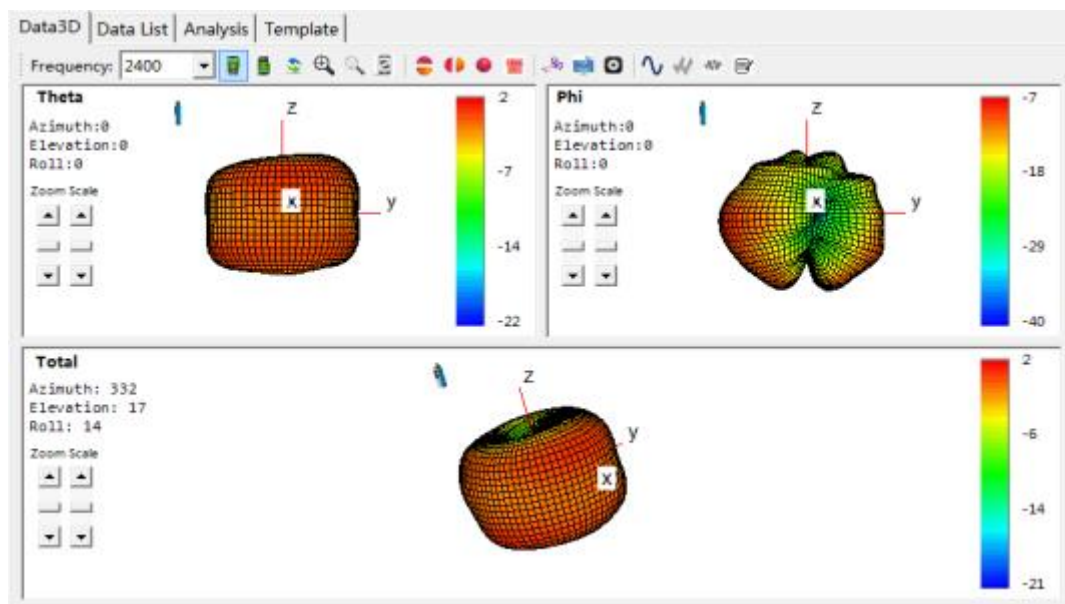
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2.3 Gain and efficiency

天线名	V6-BT天线						
chNo	Freq	TRP	PeakEIRP	Directivity	Gain	Efficiency_dB	Efficiency_Pcent
1	2400	-1.6	1.24	2.84	1.24	-1.6	69.17
2	2410	-1.47	1.27	2.74	1.27	-1.47	71.28
3	2420	-1.48	1.31	2.79	1.31	-1.48	71.07
4	2430	-1.39	1.37	2.76	1.37	-1.39	72.53
5	2440	-1.46	1.42	2.88	1.42	-1.46	71.47
6	2450	-1.54	1.38	2.92	1.38	-1.54	70.21
7	2460	-1.43	1.42	2.9	1.42	-1.43	71.97
8	2470	-1.36	1.45	2.81	1.45	-1.36	73.17
9	2480	-1.26	1.47	2.73	1.47	-1.26	74.81
10	2490	-1.45	1.36	2.81	1.36	-1.45	71.62
11	2500	-1.55	1.27	2.82	1.27	-1.55	70.01

2.4 Diagram



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3.Exterior dimensions diagram.

