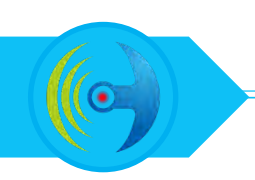




Professional antenna serviceprovider

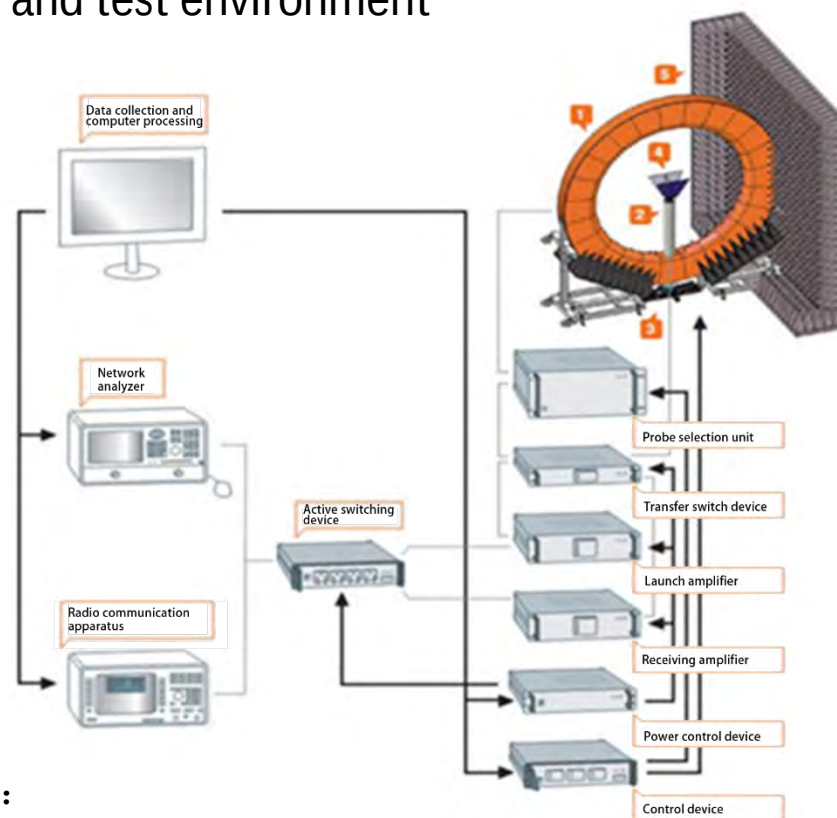


Antenna test report

Item model	Zstick10
Antenna model	
Testers	Xu Gaofu
Auditors	Chen Zhexiong
Date	2024-11-6

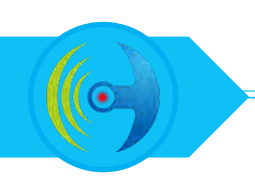


Test equipment and test environment

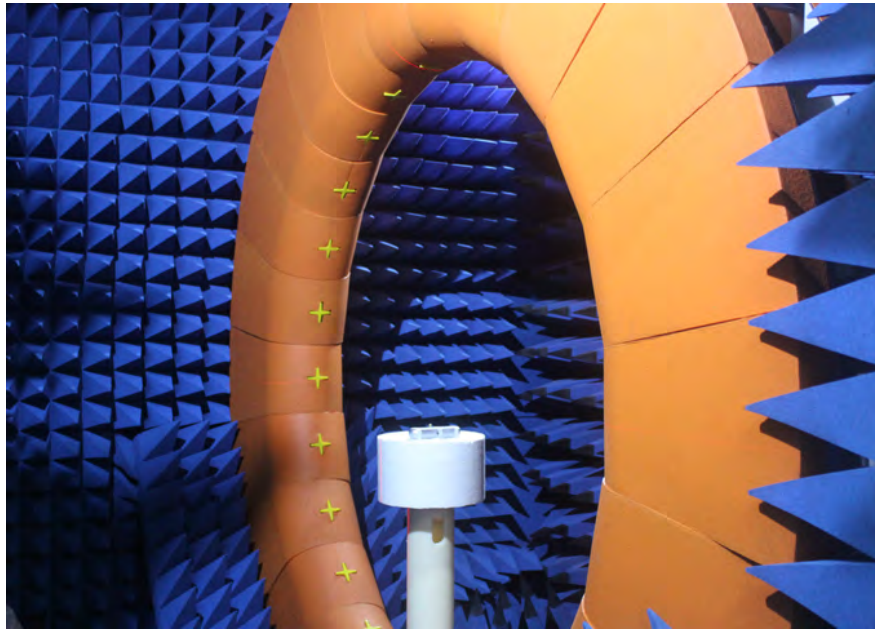


Test Environment Conditions:

RelativeHumidity	15 ... 75 %
Temperature	+10 °C ~ +30 °C
Voltage of the EUT	N/A



Test equipment



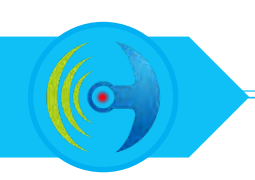
Probe microwave anechoic chamber

➤ Frequency Range : 0.4GHz-6GHz

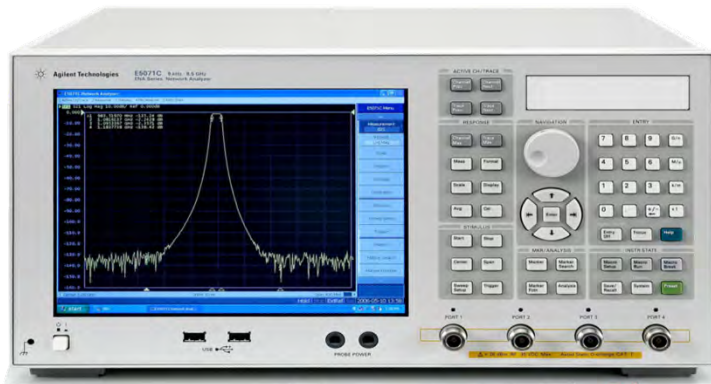
Main test indicators

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

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



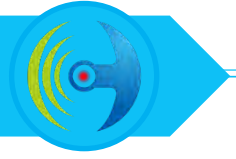
Test equipment



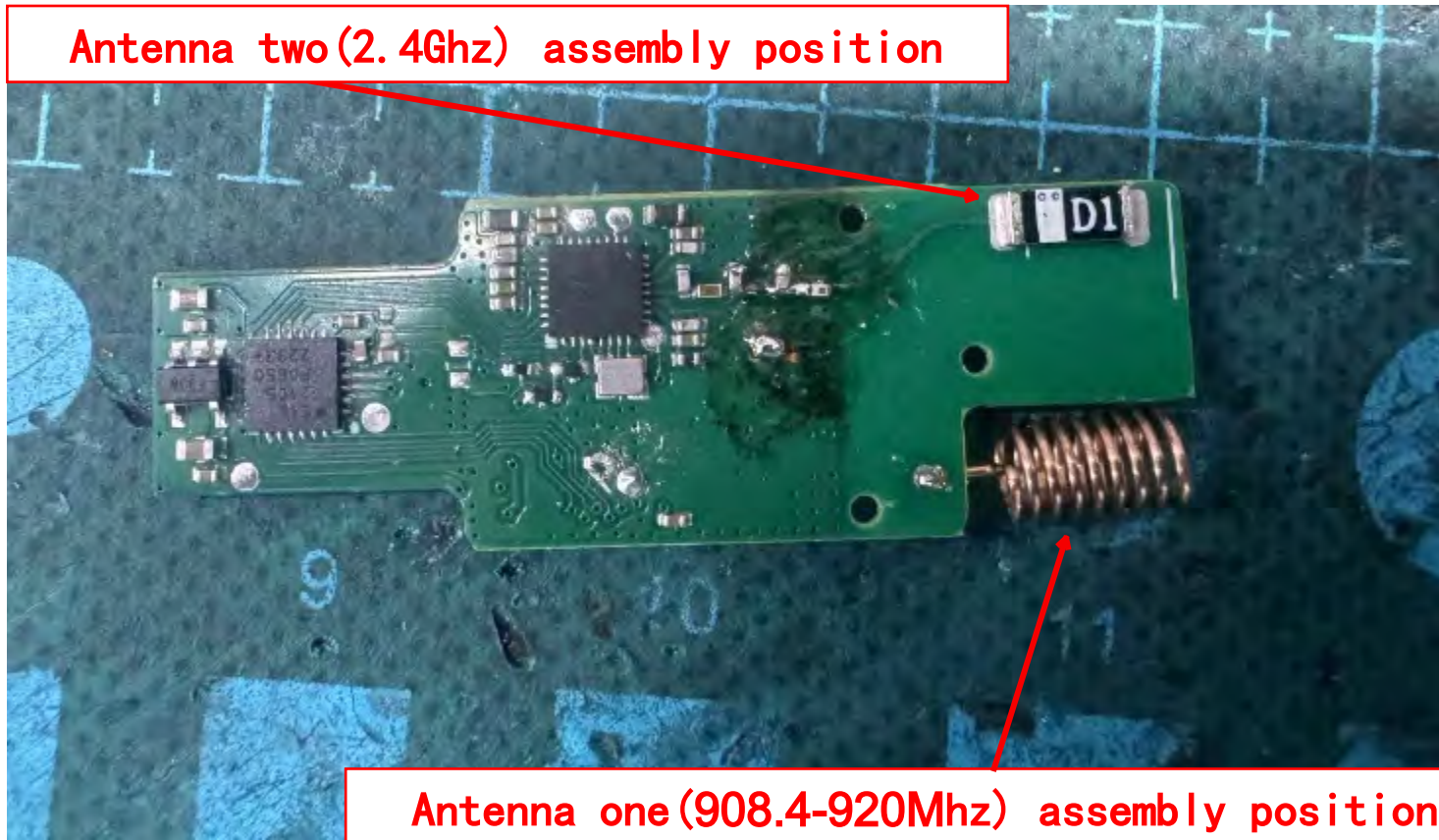
Agilent E5071C Vector network analyzer
➤ Frequency Range : 300 kHz - 8.5GHz

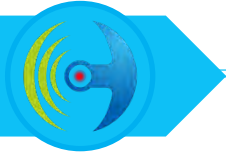


R&S CMW500 Broadband wireless communication tester
➤ GSM/3G/4G
➤ WIFI/ Bluetooth
➤ NB-IoT



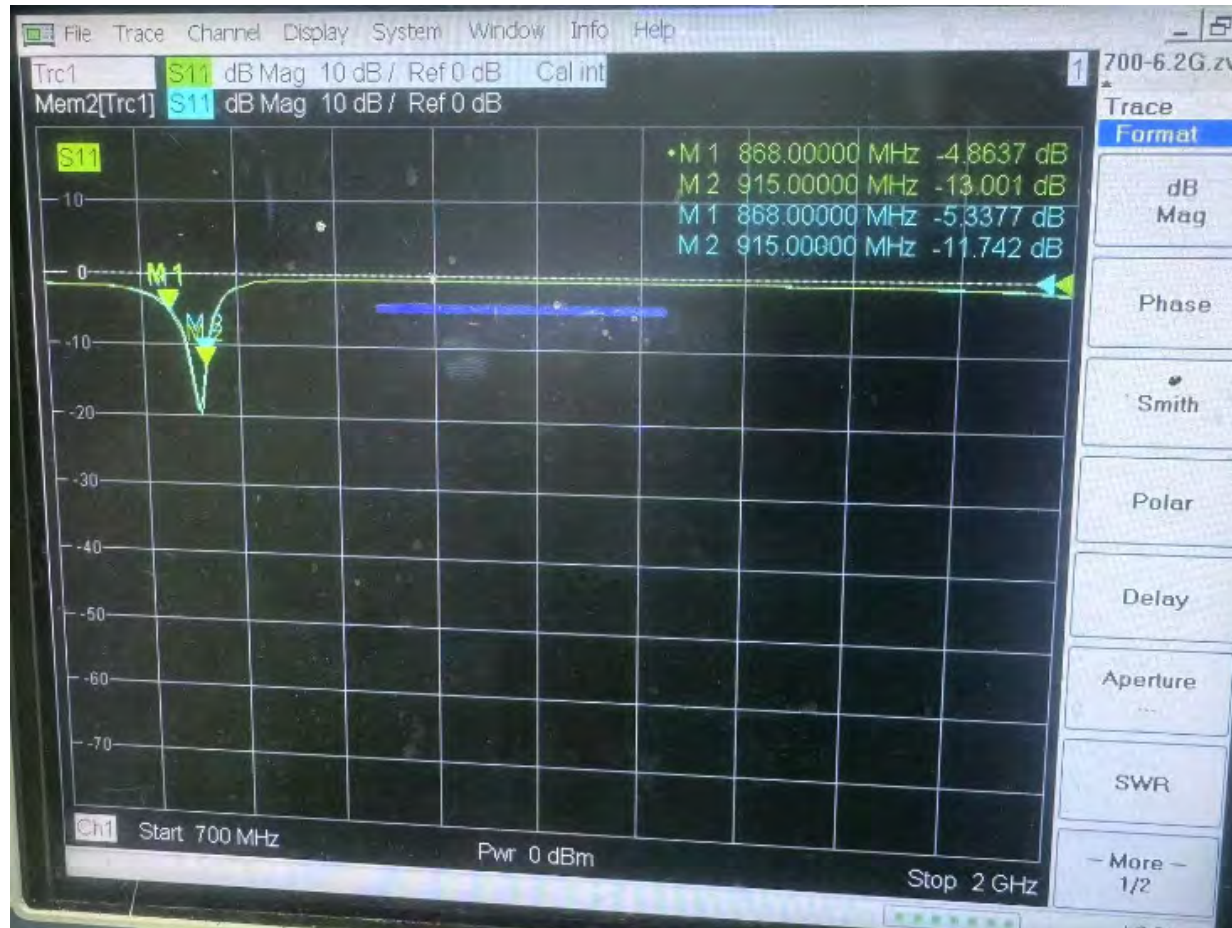
Antenna photo





Antenna SWR

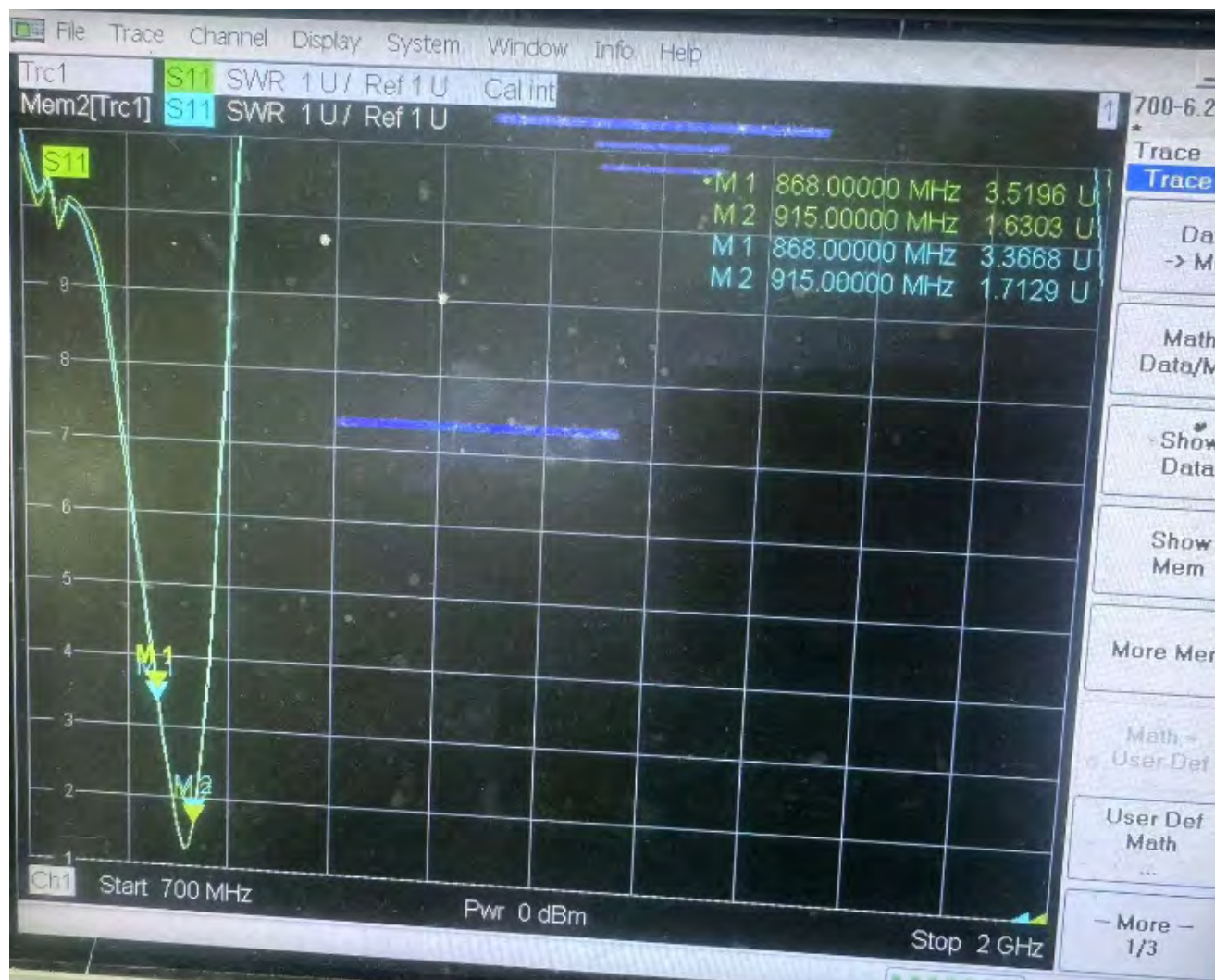
Antenna one : 908.4-920MHz

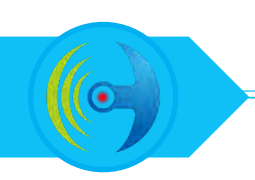




Antenna Return loss

Antenna one : 908.4-920MHz

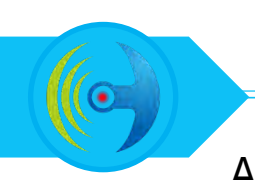




Antenna gain and efficiency

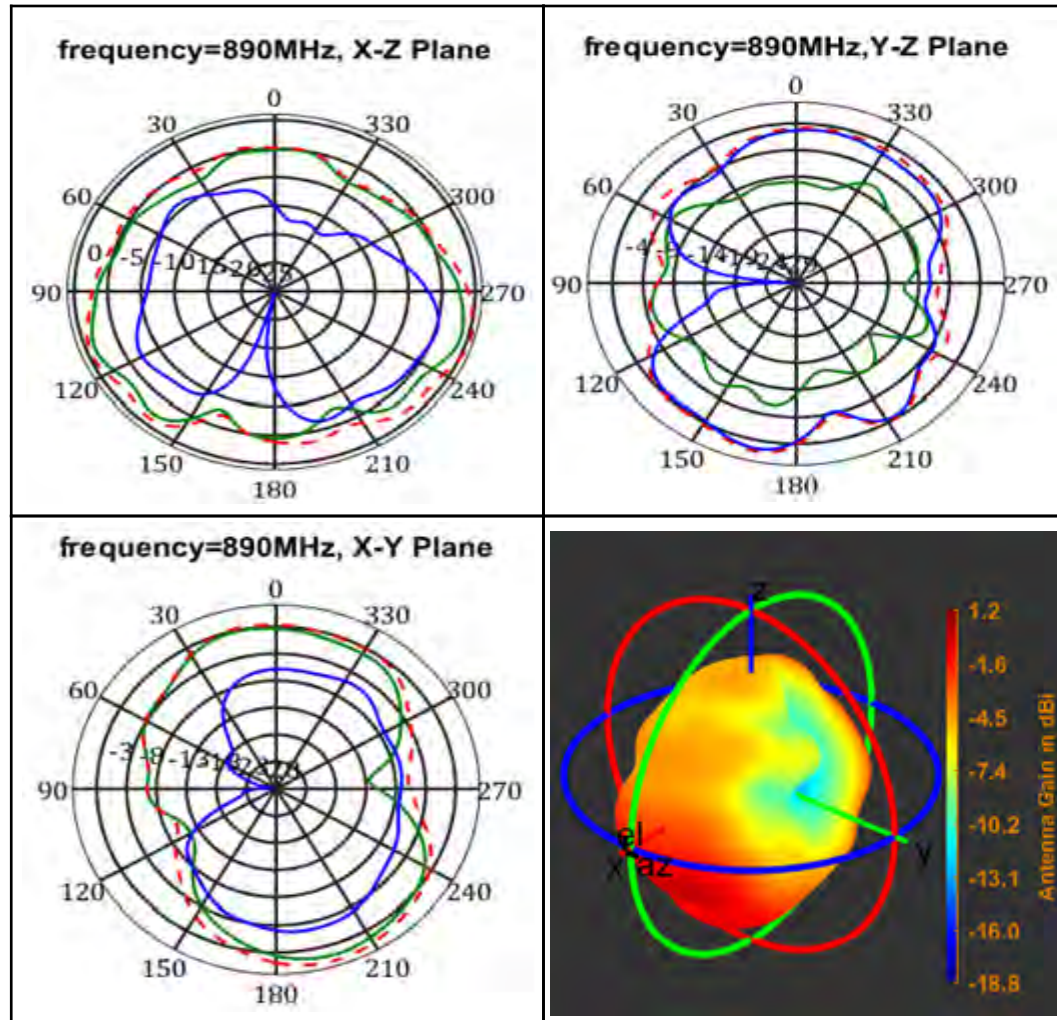
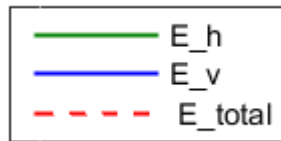
Antenna one : 908.4-920MHz

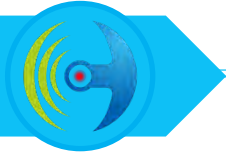
Antenna		
Freq(MHz)	Efficiency (%)	Gain(dBi)
860	35.80	0.97
870	36.53	1.05
880	36.38	1.02
890	37.75	1.23
900	40.38	1.43
910	44.60	1.57
920	36.27	1.37
930	35.62	1.26



Antenna Radiation Pattern

Antenna one : 908.4-920MHz

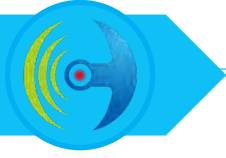




Antenna SWR

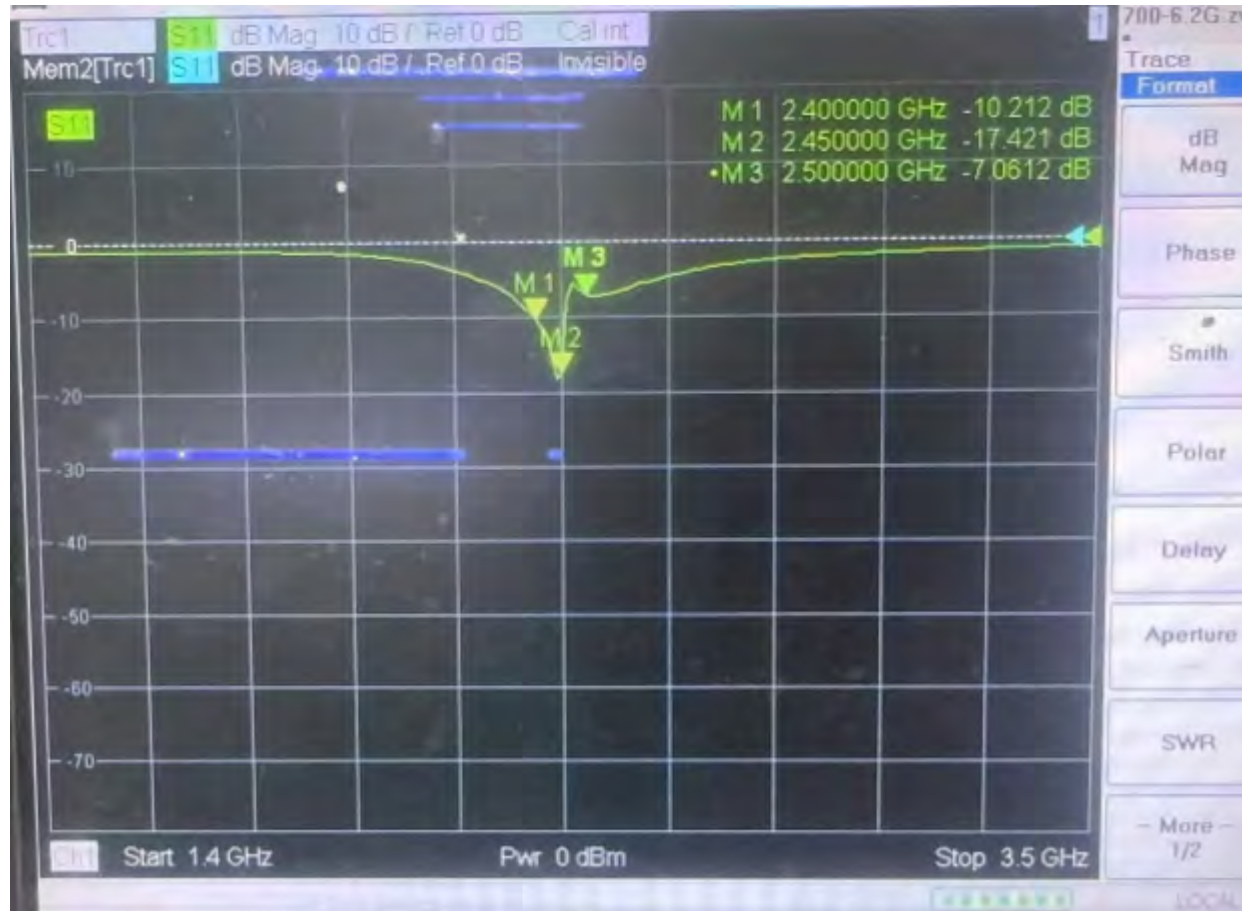
Antenna two : 2.4Ghz

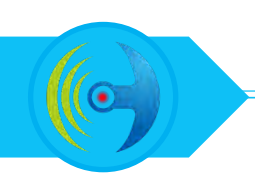




Antenna Return loss

Antenna two : 2.4Ghz

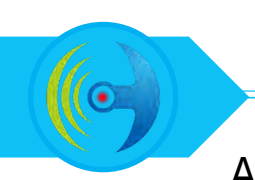




Antenna gain and efficiency

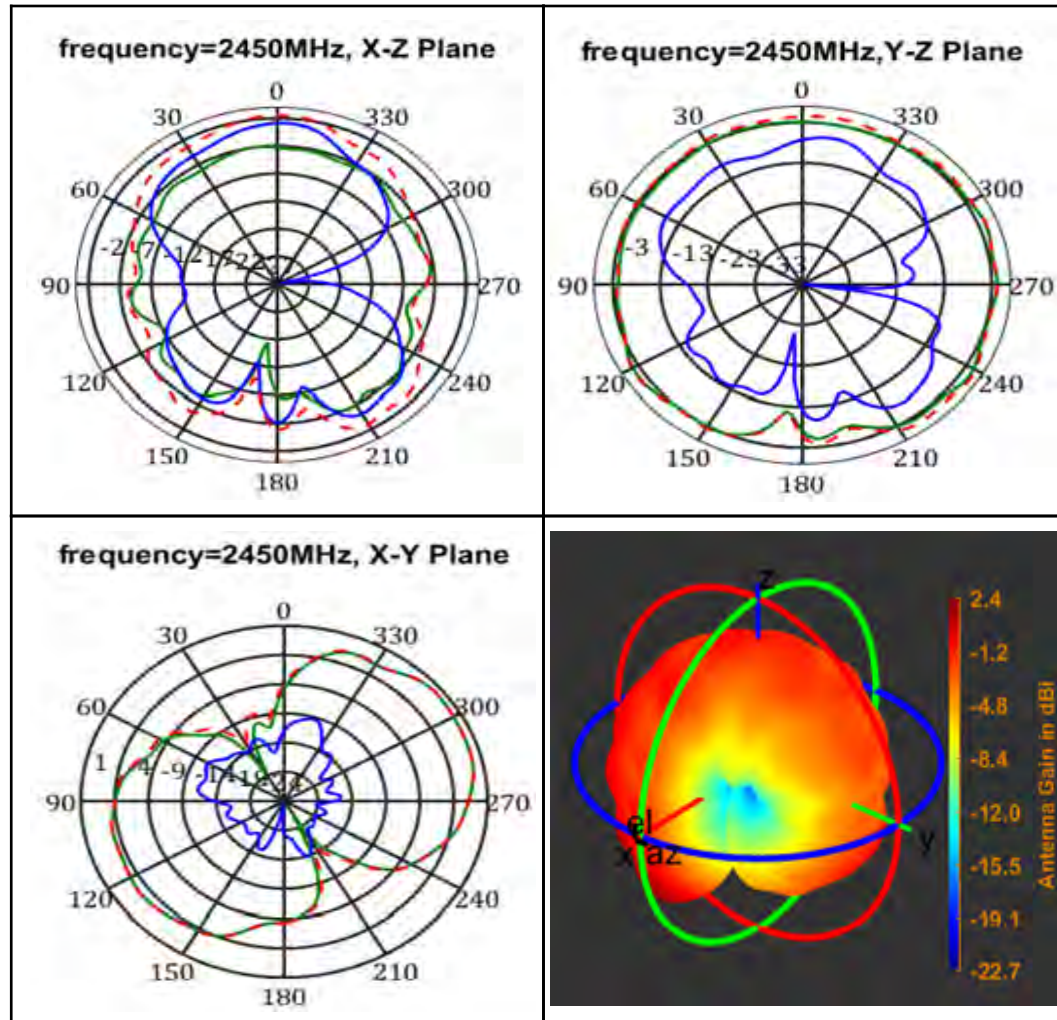
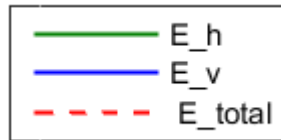
Antenna two : 2.4Ghz

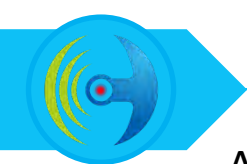
Antenna		
Freq(MHz)	Efficiency (%)	Gain(dBi)
2400	35.52	1.58
2410	36.11	1.62
2420	36.26	1.75
2430	37.45	1.90
2440	38.81	2.10
2450	40.23	2.36
2460	40.07	2.10
2470	38.50	1.97
2480	37.31	1.82
2490	36.17	1.75
2500	34.05	1.63



Antenna Radiation Pattern

Antenna two : 2.4Ghz

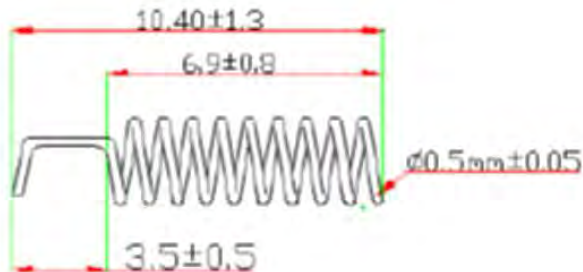


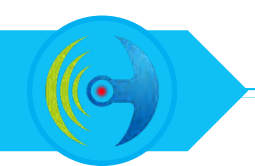


Appearance and Dimensions:
antenna one: 908.4-920MHz

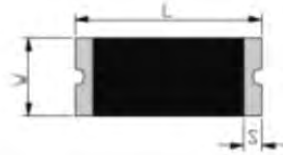
■ ROHS ■ REACH □ 无

Product name: Spring antenna
Material: Phosphor bronze
Wire diameter: 0.5mm
Outer diameter: 4.5 ± 0.2 mm
Length: 10.4 ± 1.3 mm
Number of turns: 8.5T
No.: T409-YL- $\phi 4.5$ R05T8.5_A2





Appearance and Dimensions:
antenna two: 2.4Ghz



Length: 5.2 ± 0.20
Width: 2.2 ± 0.20
Thickness: 1.0 ± 0.20
Electrode width: 0.5 ± 0.20



Thanks for your support!

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E-mail:ant001@fmant.cn

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