



Antenna test report

Item model ZY909

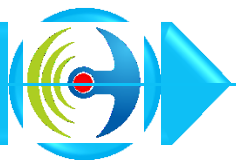
Antenna model

Testers Yue e wei

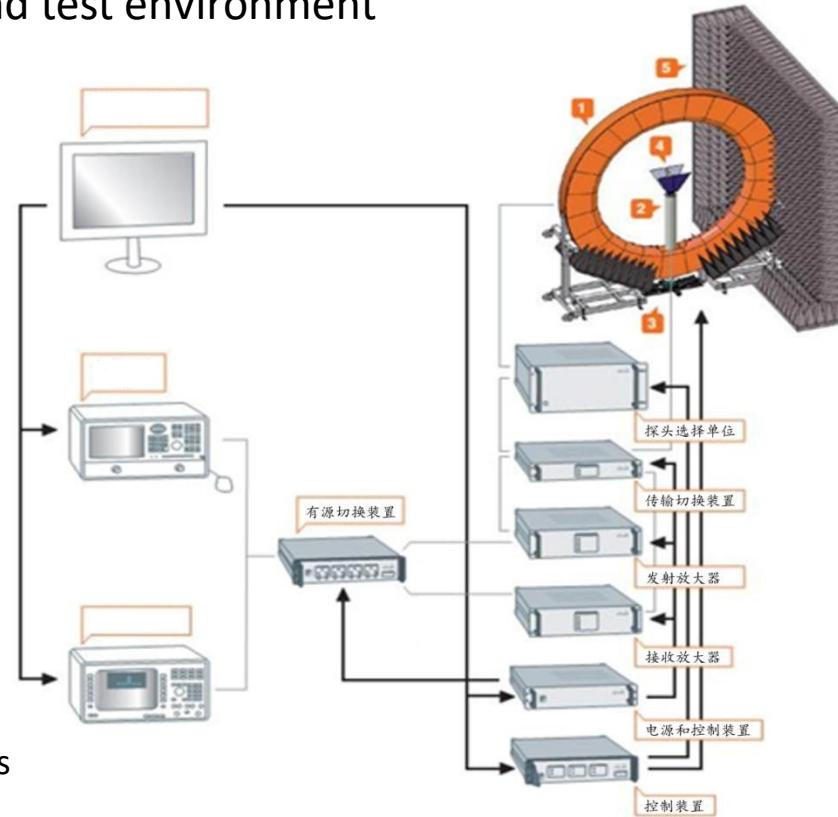
Auditors Xing xi Xia

Date 2024-09-07

Address: Plant 303, Building C, Hengnan Road, Gushu Community, Xixiang Street, Baoan District, Shenzhen



Test equipment and test environment

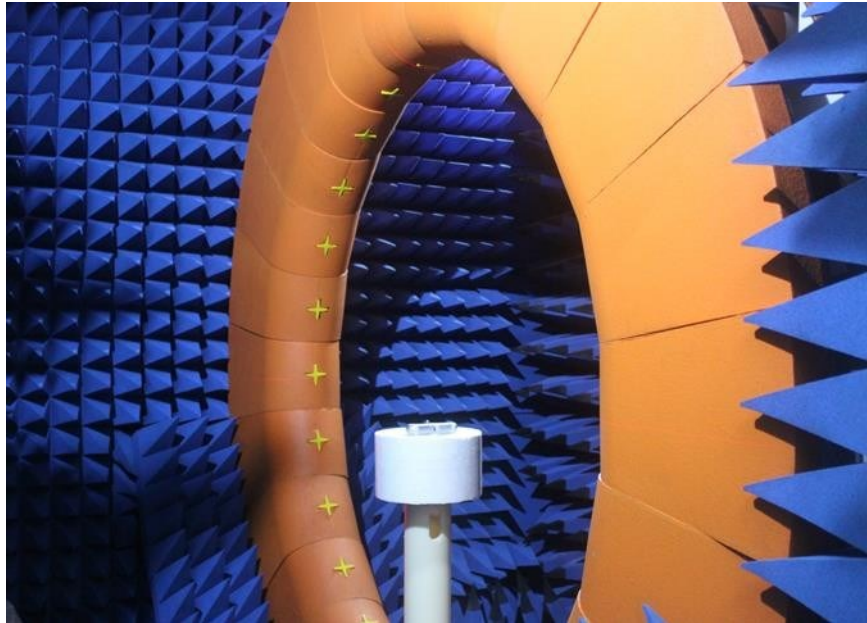


Test Environment Conditions

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

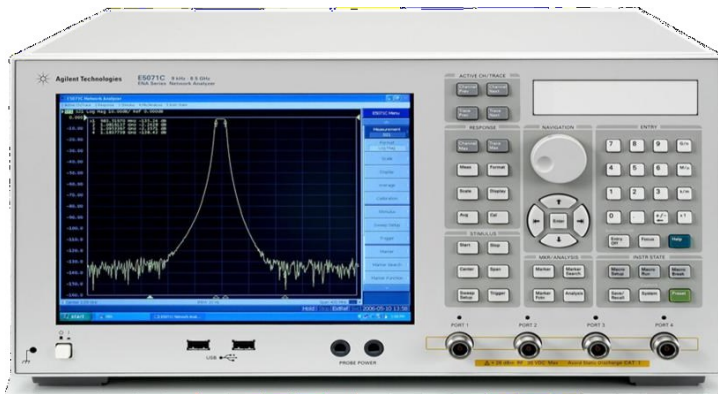
Main test indicators

- ◆ 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

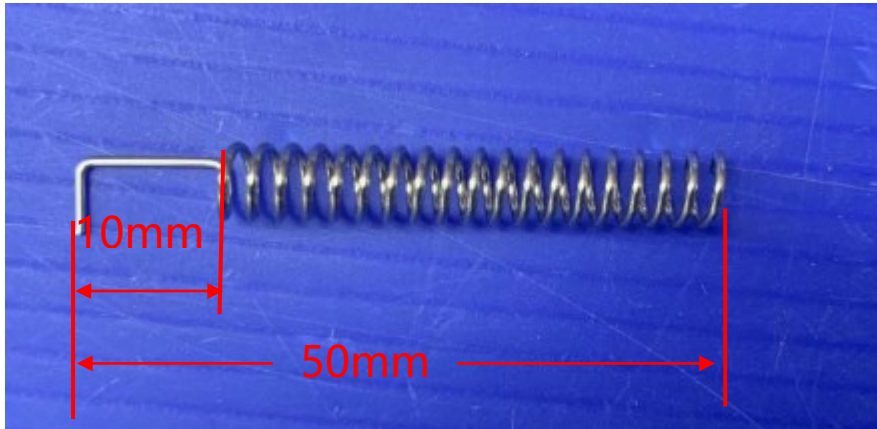


R&S CMW500 Broadband wireless communication tester

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



Passive antenna data



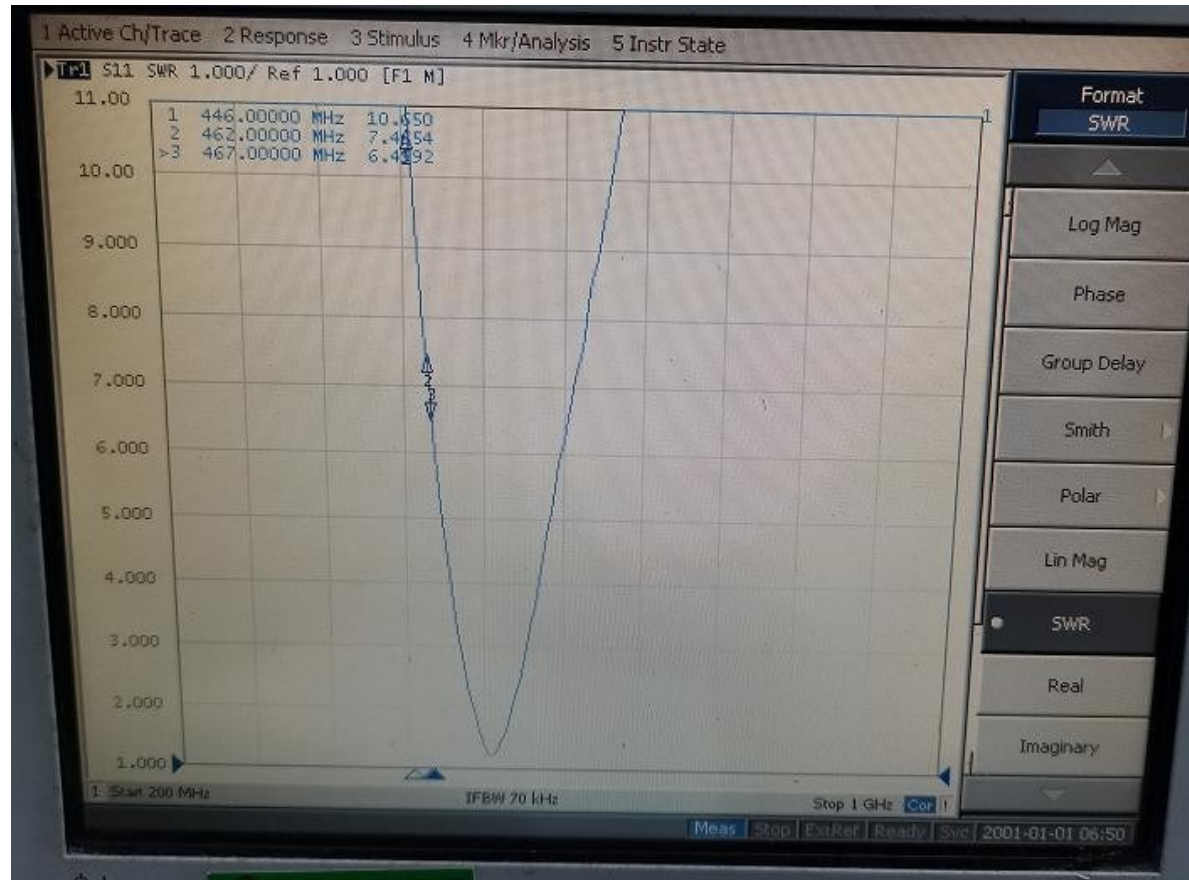
External diameter: 6.0mm

Line diameter: 0.8mm

Number of turns: 19.5T

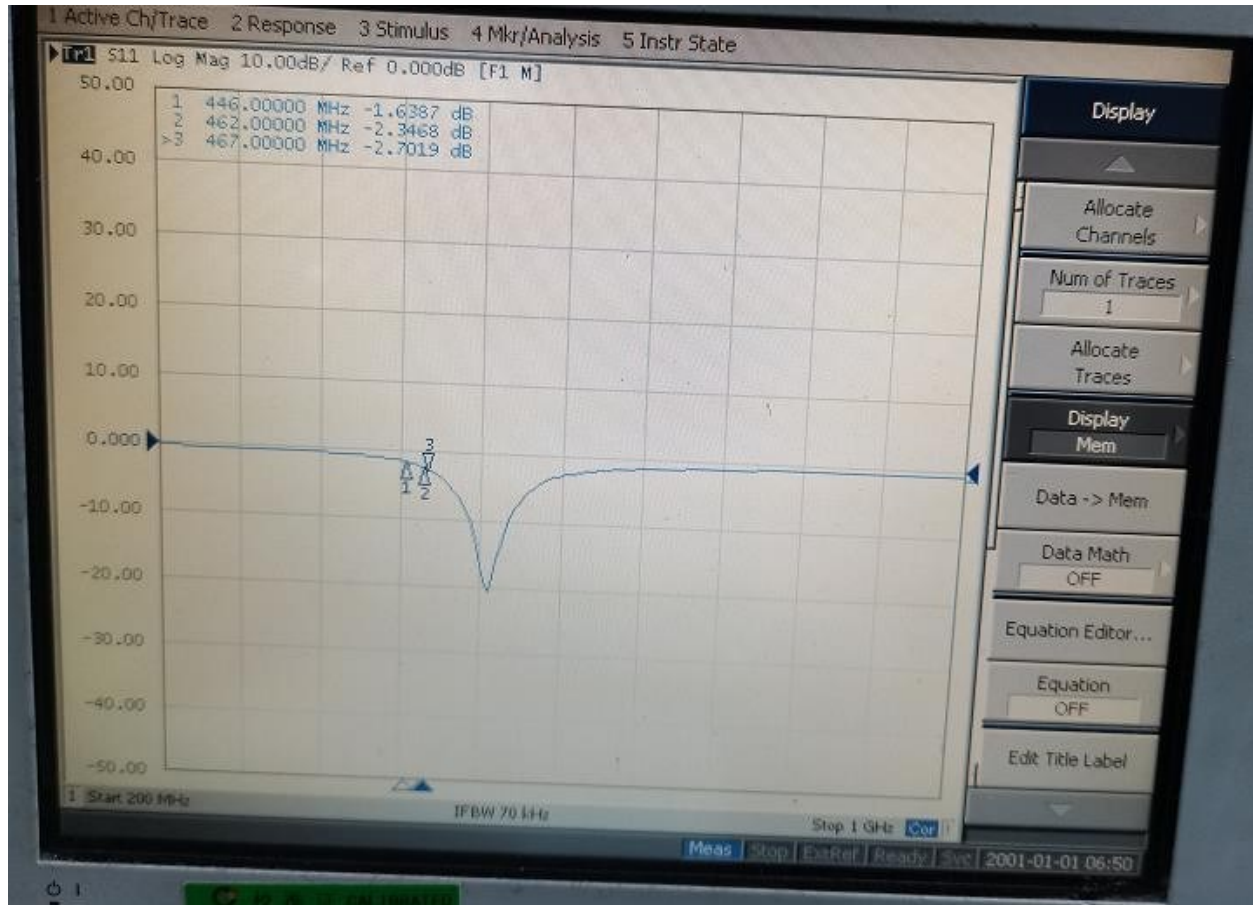


Antenna SWR





Antenna Returnloss



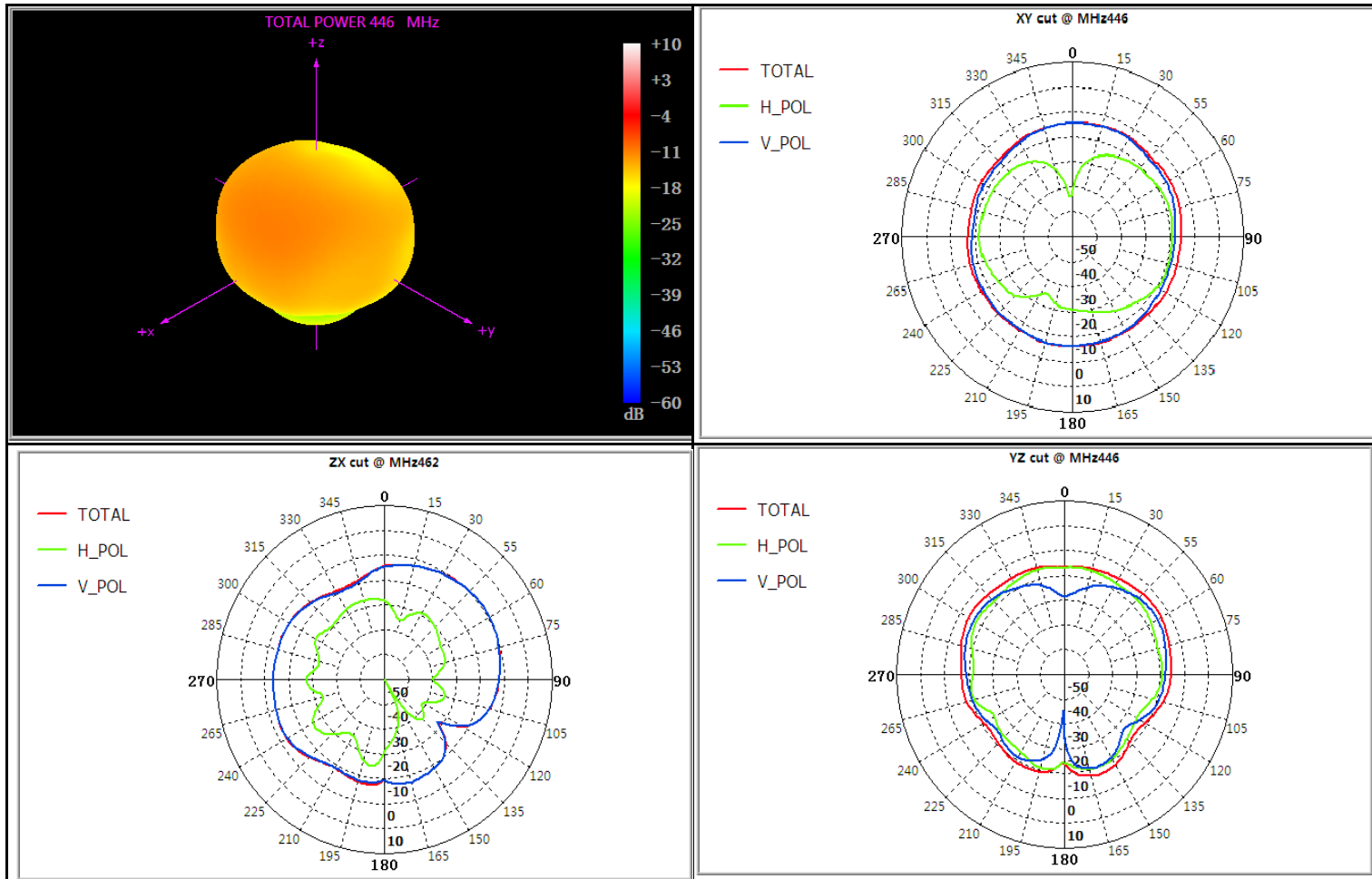


Antenna gain and efficiency

Antenna		
Freq(MHz)	Efficiency (%)	Gian(dBi)
446 MHz	3.57	-11.87
462 MHz	4.47	-10.18
467 MHz	5.73	-9.63

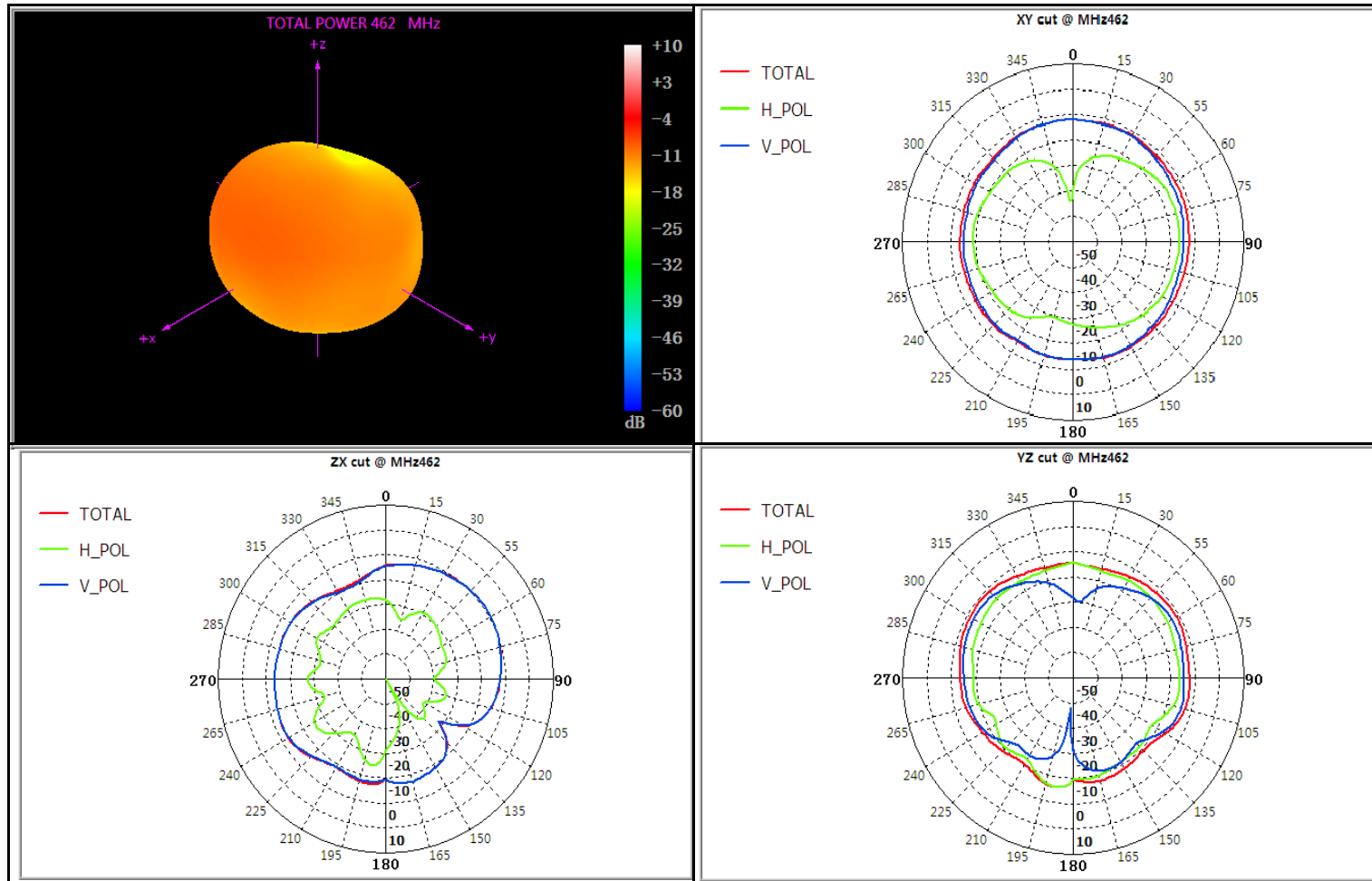


Antenna Radiation Pattern





Antenna Radiation Pattern





Antenna Radiation Pattern

