



深圳市迪比通通讯设备有限公司

Shenzhen DBT Telecommunication Technology CO.,LTD

天线测试报告

Antenna Test Repot

Antenna type:FPC ANT

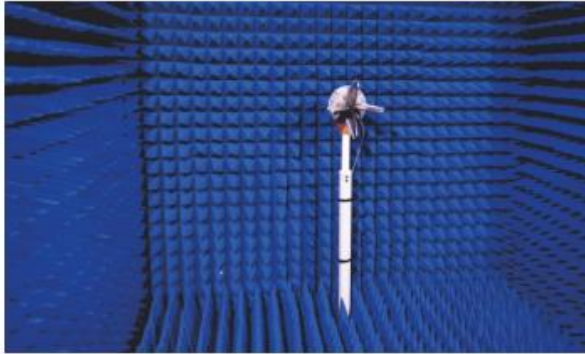
Customer: NETVUE INC.

Project : XYD-THR-P60

Antenna standard : Dual-band
WiFi

TIME:2025/12/01

1. test equipment



OTA-800

Brand: ETSI ✓

Frequency range: 370MHz - 8.5GHz

Functions: Passive and active testing; TRP and TIS testing for G-network, C-network, 2G/3G/4G, WIFI, BT and other standards.

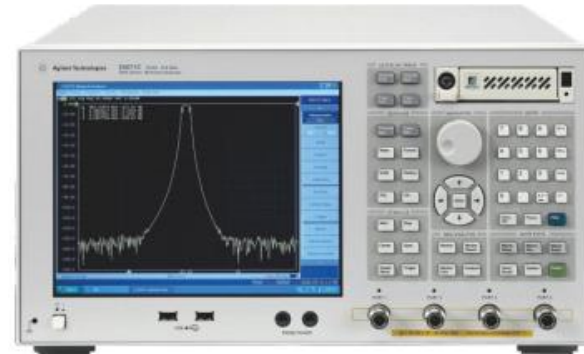


8960

Brand: Agilent

Frequency range: 292 MHz - 2700

GHz Function: Meets the equipments for 2G/3G active testing.



5071C

Brand: Agilent ✓

Frequency range: 9KHz - 8.5GHz

Function: Comprehensive passive testing of antennas for 2G/3G/4G/BT/WIFI, etc.



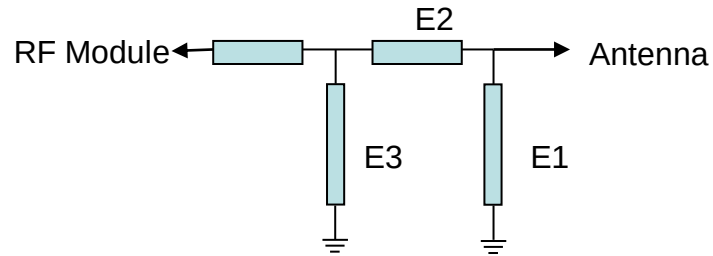
CMW500

Brand: Rod & Schwartz

Frequency range: 70KHz - 6GHz

Functions: Comprehensive active testing for antennas such as 2G/3G/4G/BT/WIFI/NB-Lot.

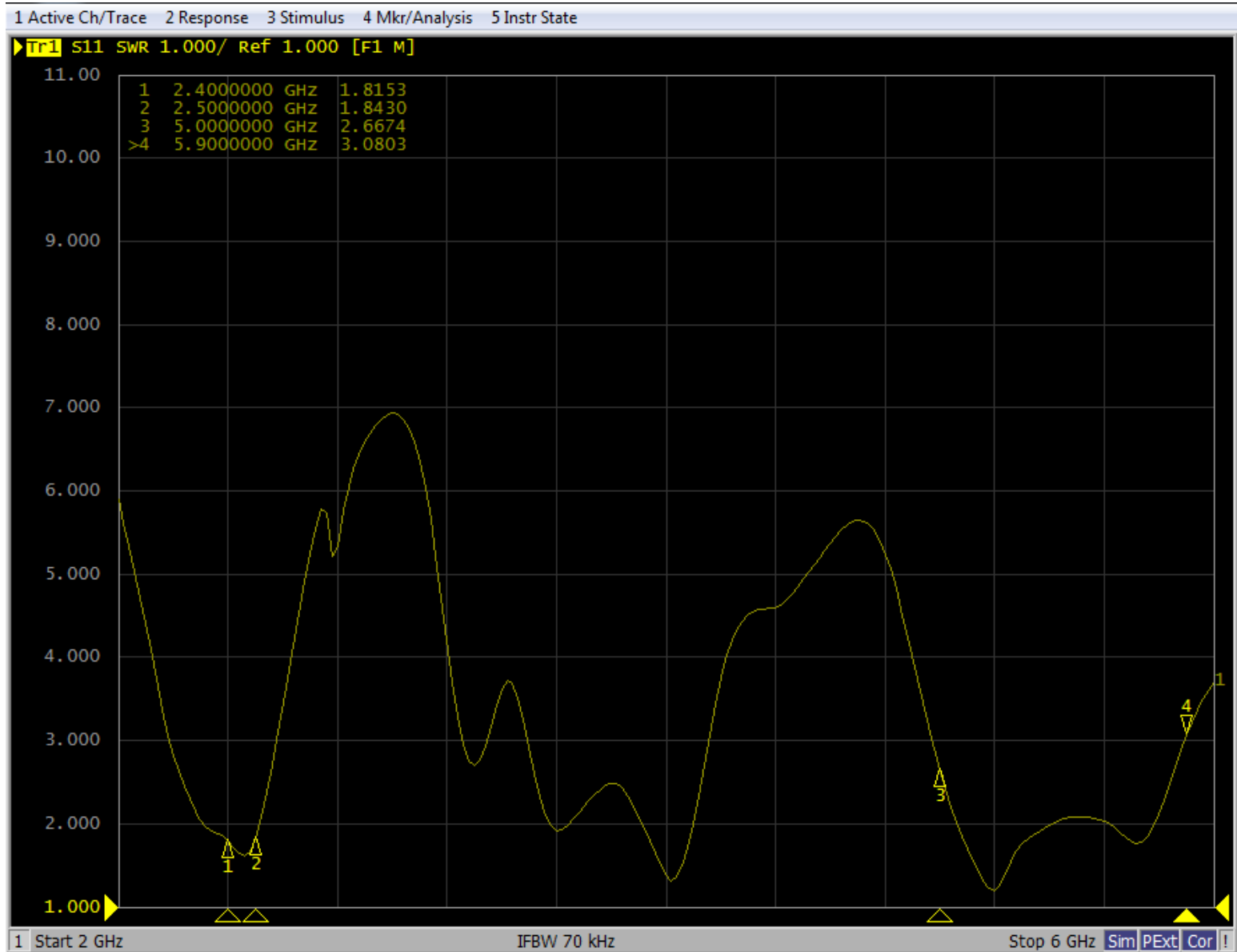
2. Antenna matching circuit



Element	WIFI
E1(0201)	NC
E2(0201)	0 R
E3(0201)	NC

The matching circuit has not been modified .

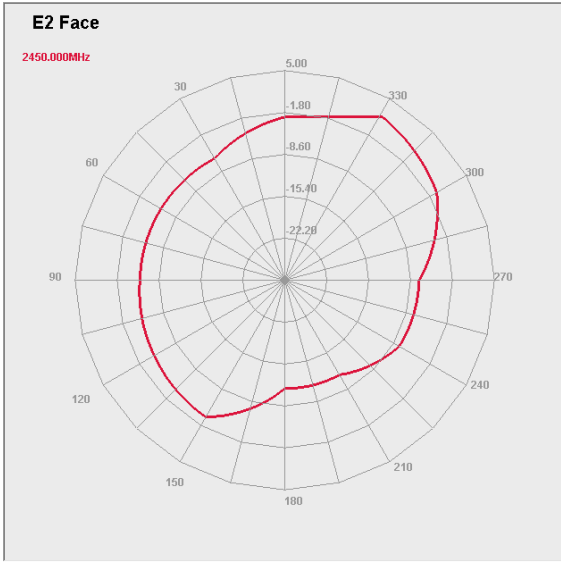
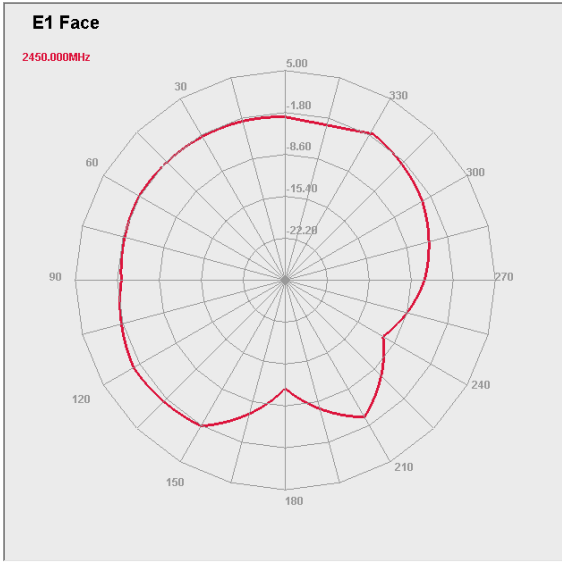
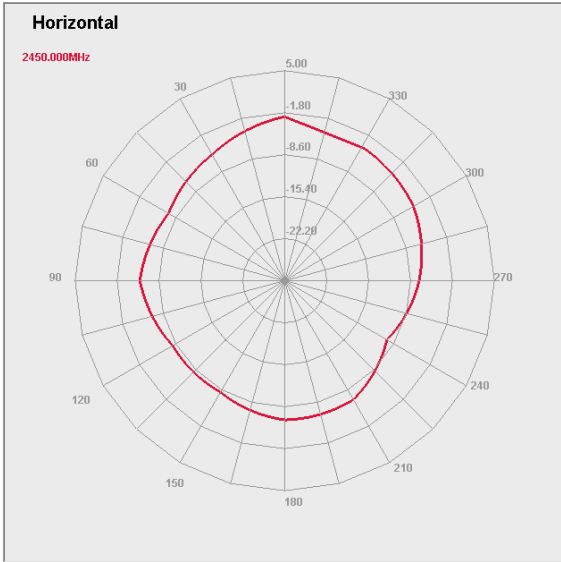
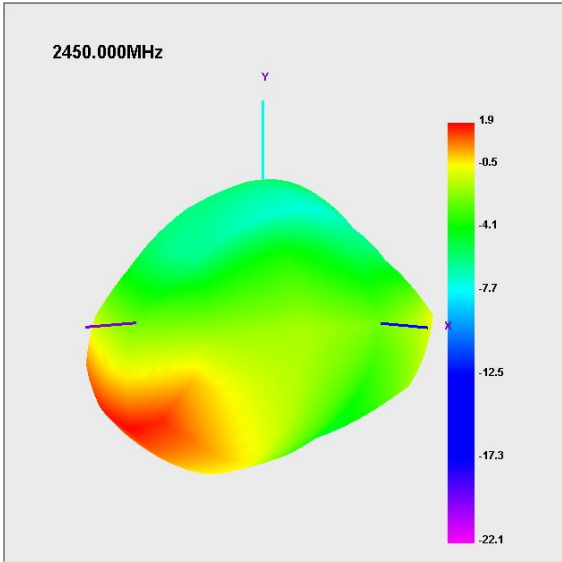
3. Passive standing wave diagram



4. Passive test data

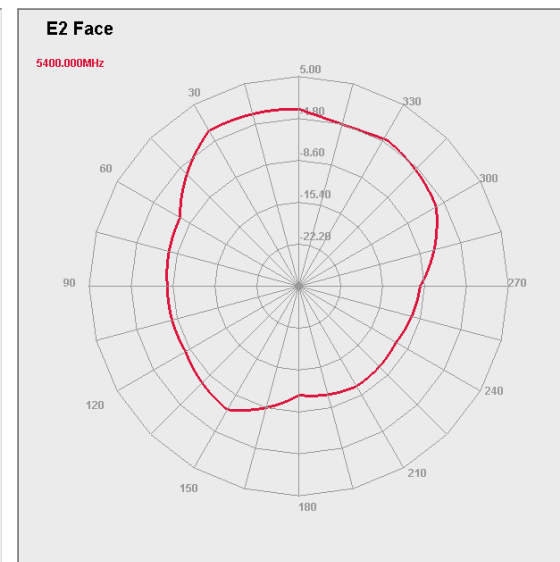
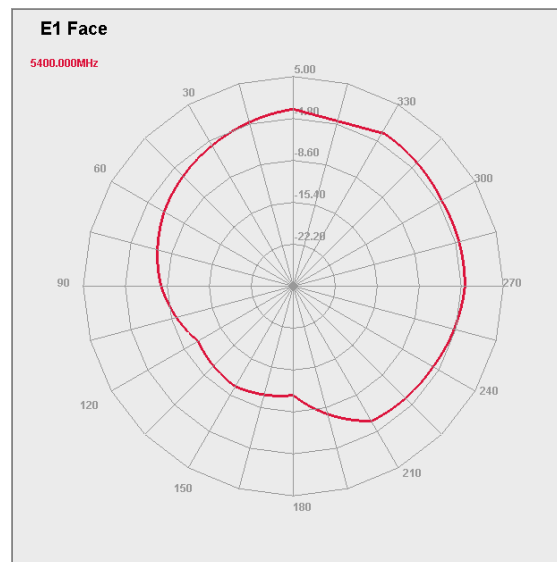
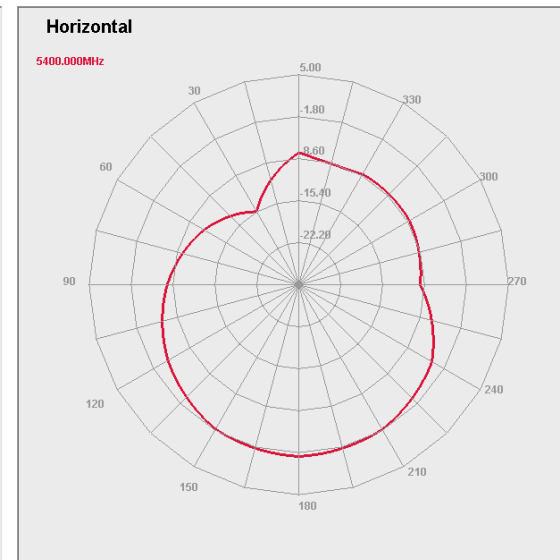
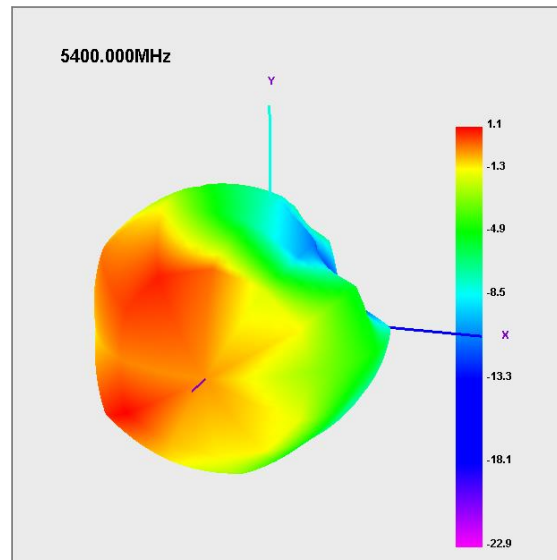


Freq (MHz)	Effi (%)	Gain (dBi)
2400	44.18	1.51
2410	46.77	1.82
2420	44.27	1.55
2430	50.3	2.29
2440	46.13	1.71
2450	50.62	1.93
2460	44.75	1.14
2470	48.27	1.48
2480	47.33	1.09
2490	48.43	1.37
2500	44.63	0.71



5. Passive test data

Freq (MHz)	Effi (%)	Gain (dBi)
5000	42.35	2.3
5100	46.28	3.01
5200	48.24	3.37
5300	49.02	2.43
5400	42.86	1.1
5500	43.29	1.84
5600	44.68	1.97
5700	45.43	0.64
5800	45.51	0.6
5900	43.58	0.94



6. Active test data

802.11b : 11Mbps

Test	Wifi 2G TRP		
Result	1	6	11
Frequency (MHz)	2412	2437	2462
Txp Ave(dBm)	15.47	14.97	13.84
Test	Wifi 2G TIS		
Result	1	6	11
Frequency (MHz)	2412	2437	2462
Sens Ave(dBm)	-87.12	-87.41	-87.81

802.11n : MCS7

Test	Wifi 5G TRP		
Result	36	60	161
Frequency (MHz)	5180	5300	5805
Txp Ave(dBm)	15.82	16.17	16.85
Test	Wifi 5G TIS		
Result	36	60	161
Frequency (MHz)	5180	5300	5805
Sens Ave(dBm)	-70.48	-71.06	-70.82

802.11g : 54Mbps

Test	Wifi 2G TRP		
Result	1	6	11
Frequency (MHz)	2412	2437	2462
Txp Ave(dBm)	15.48	15.54	14.48
Test	Wifi 2G TIS		
Result	1	6	11
Frequency (MHz)	2412	2437	2462
Sens Ave(dBm)	-74.89	-74.64	-73.77

802.11a : 54Mbps

Test	Wifi 5G TRP		
Result	36	60	161
Frequency (MHz)	5180	5300	5805
Txp Ave(dBm)	16.08	16.38	16.86
Test	Wifi 5G TIS		
Result	36	60	161
Frequency (MHz)	5180	5300	5805
Sens Ave(dBm)	-73.23	-74.16	-73.46

802.11n : MCS7

Test	Wifi 2G TRP		
Result	1	6	11
Frequency (MHz)	2412	2437	2462
Txp Ave(dBm)	15.38	15.22	14.36
Test	Wifi 2G TIS		
Result	1	6	11
Frequency (MHz)	2412	2437	2462
Sens Ave(dBm)	-71.99	-73.08	-71.68

7. Antenna placement position

