



Shenzhen Boantong Technology

ANT REPORT

NO/.: Y230301272

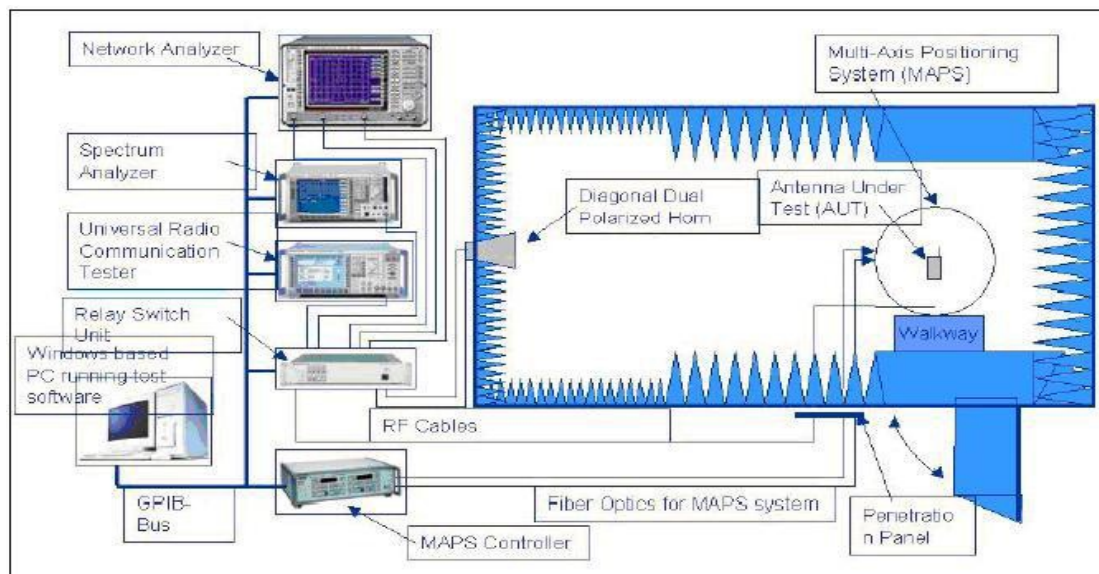
MODEL: T20
Version: V1.0

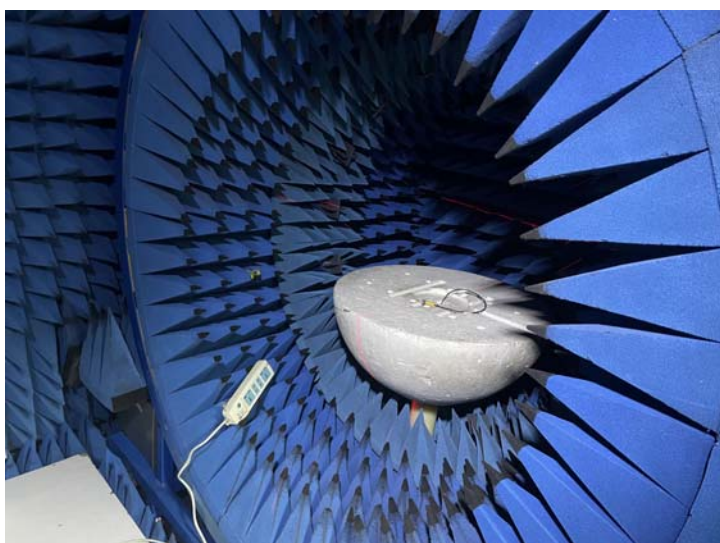
一、Illustrate

This report summarizes the electrical performance results of the T20 project antenna, including the S11 parameters of the antenna, Efficiency, gain, and corresponding conclusions.

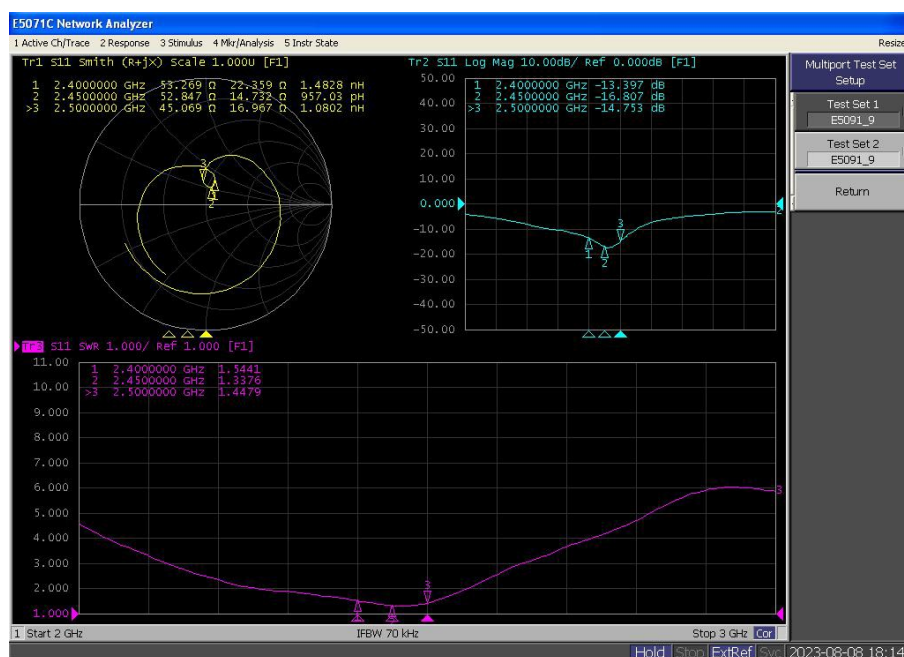


三、Testing principle





Antenna S11 parameter diagram



Standing wave ratio data

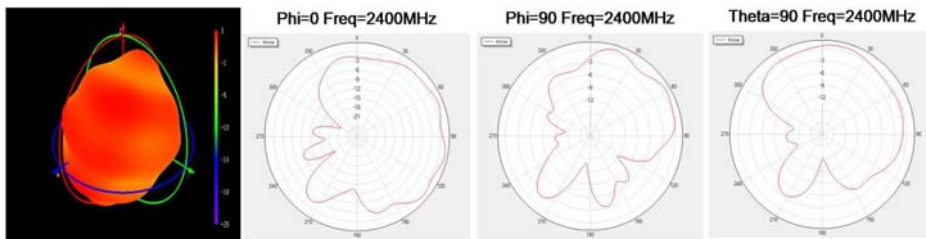
Freq/MHz	2400MHz	2450MHz	2500MHz
VSWR	1.54	1.33	1.44

Antenna darkroom test data

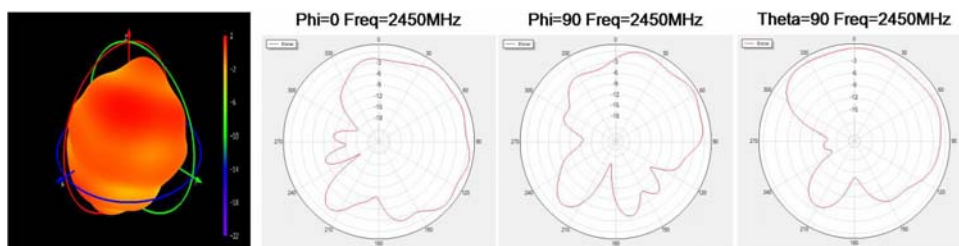
frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)
2400	2.05	-2.27	59.25
2410	1.97	-2.23	59.85
2420	1.8	-2.26	59.45
2430	1.81	-2.23	59.9
2440	1.63	-2.33	58.49
2450	1.76	-2.36	58.12
2460	1.79	-2.36	58.09
2470	2	-2.32	58.62
2480	1.98	-2.39	57.66
2490	2.04	-2.33	58.53
2500	2.05	-2.27	59.27

Antenna Pattern

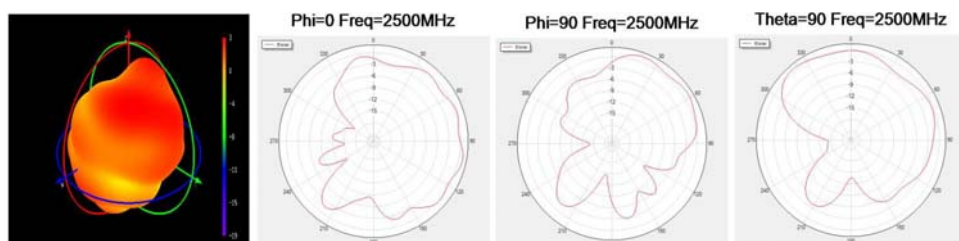
2400M 3D-E1-E2-H



2450M 3D-E1-E2-H



2500M 3D-E1-E2-H



➤ Antenna mounting position diagram



➤ Description of electrical performance parameters

parameter attribute	Parameter	value
Electrical performance	Antenna	2.4GHz
	frequency range	2400~2500MHz
	characteristic	50 Ω
	Standing wave	<2.05
	Power capacity	<10w
	Polarization	linear polarization
	Radiation	Omnidirectional
	gain	$\geq 1.63\text{dBi}$
	efficiency	$\geq 55\%$
	Reflection loss	$\leq -10\text{dB}$
	Single antenna	G/pcs