

Antenna Test Report

Frequency Band: 2400-2500MHz

BT

DATE: 2023-05-06

Manufacturer: Shenzhen Hongbo Intelligent Electronics Co., Ltd

Address: 2 / F, No. 10-5, Minsheng 1st Road, Baoyuan Community, Shiyan
Street, Baoan District, Shenzhen, China

1.Test Project

	Test Project	Equipment
1. S Parameter	1. Return Loss (RL) 2. VSWR	Network Analyzer: Agilent 5071B
2. RF Test (2G+3G+4G)	1. power 2. level 3. TRP/TIS	Comprehensive Test: CMW500 Test Environment: Anechoic Chamber

2. Test Equipment

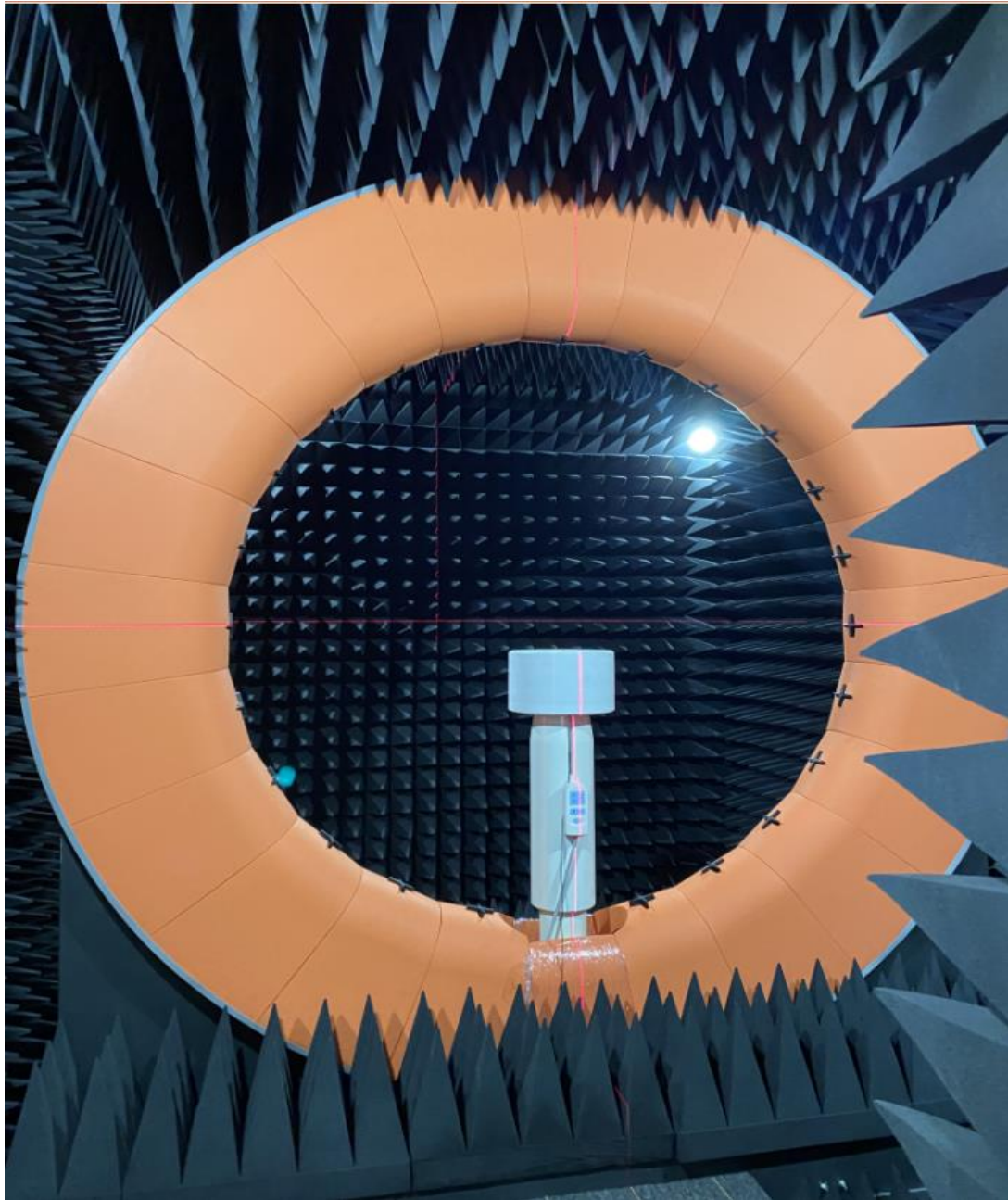


Agilent 5071B (S Parameter (RL/VSWR) Test Equipment)



CMW 500 (BT Test Equipment)

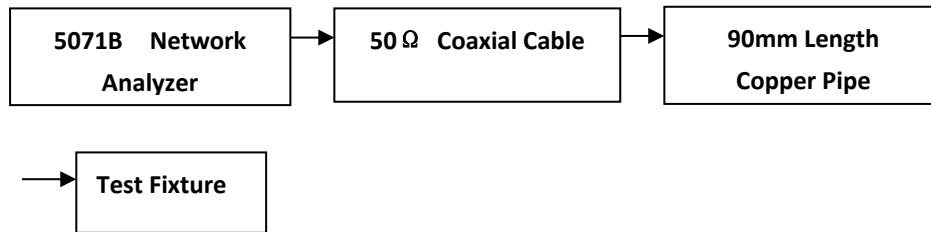
3. TestEnvironment



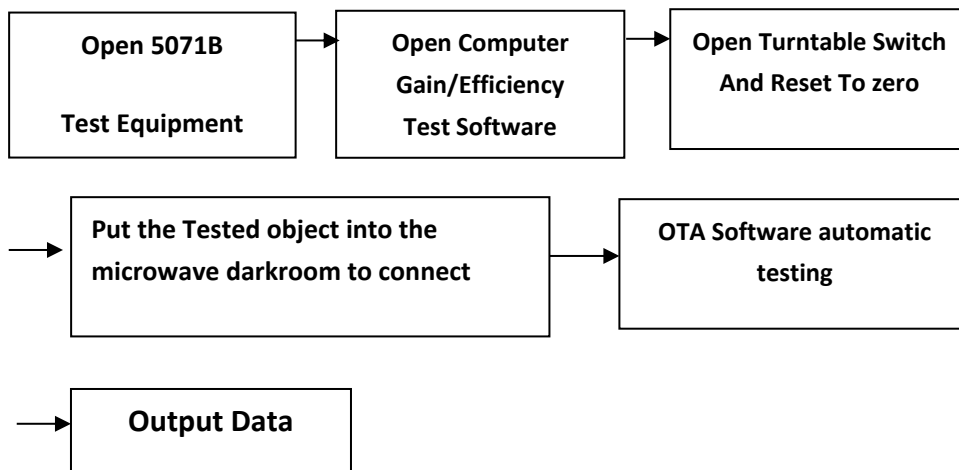
Microwave Anechoic Chamber

4.Test Steps

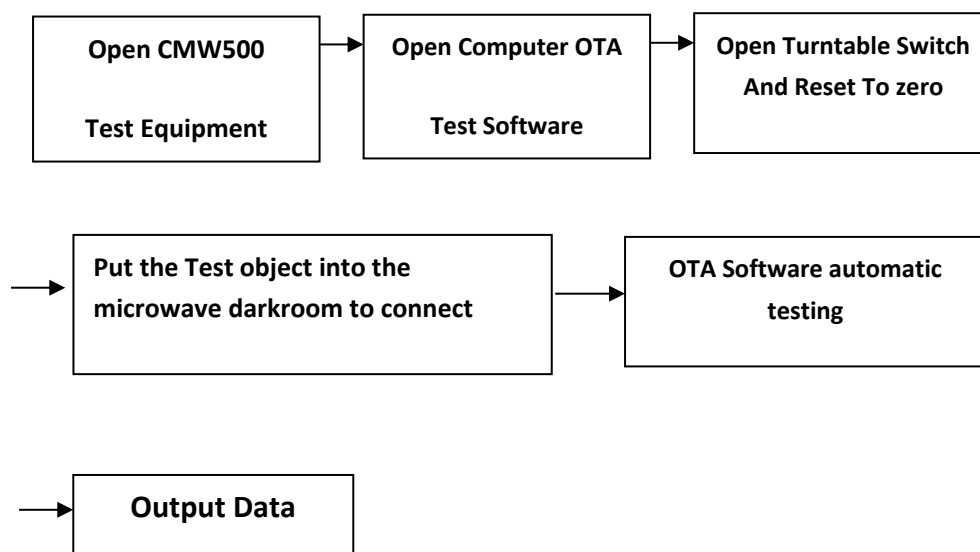
Passive VSWR/RL Test Steps:



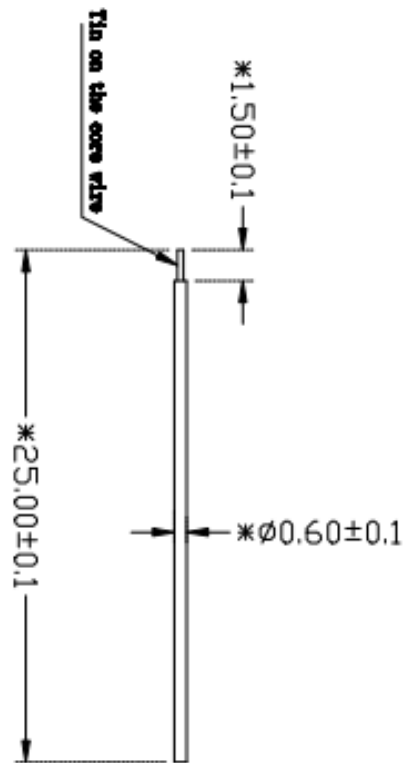
Gain/Efficiency Test Steps:



Active TRP/TIS Test Steps:



5. Antenna Dimensions

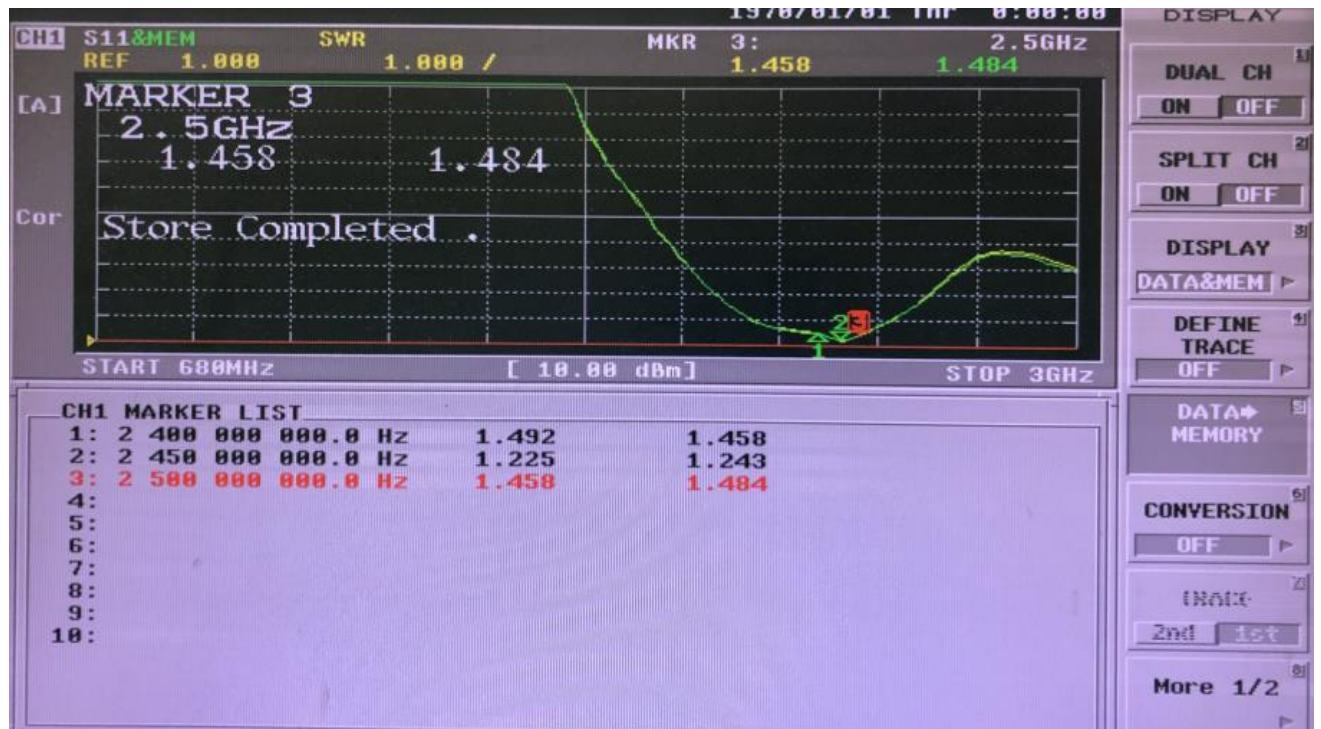


6. Antenna Gain

BT							
2400-2500MHZ	Frequency ID	1	2	3	4	5	6
	Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0
	Efficiency (%)	31.00	33.20	35.60	36.80	38.60	39.00
	Gain (dBi)	-0.40	-0.38	-0.19	-0.05	0.19	0.25
	Frequency ID	7	8	9	10	11	
	Frequency (MHz)	2460.0	2470.0	2480.0	2490.0	2500.0	
	Efficiency (%)	38.50	36.20	35.10	35.00	34.20	
	Gain (dBi)	0.17	-0.13	-0.25	-0.30	-0.35	

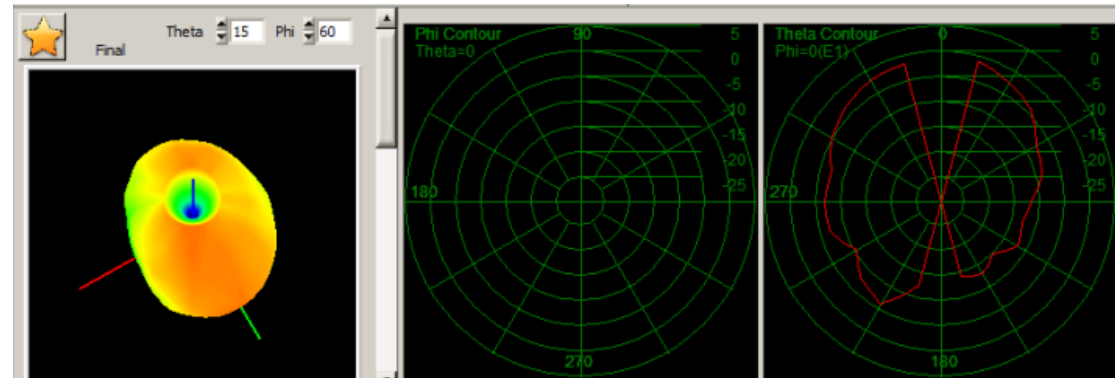
7. Antenna VSWR/S11

BT Ant



8.3D Lobe Diagram

2.4G-BT



9. Antenna model and type

Band	Model	Type
BT	BT	Monopole