

Antenna Sample Datasheet

customer:	Tianjian Electroacoustic Co., Ltd
entry name:	MRD-2024-142
Material category:	BT antenna
Antenna Type	PIFA
Antenna Material	On-board antennas
edition:	A0
Date:	2025. 2. 10

Antenna manufacturer: Hongji Wireless Communication (Shenzhen)
Co., LTD

<http://www.honant.com.cn>

Address: 12 / F, West Block B, Building 8, Huaqiang Creative Industry
Park, Sightseeing Road, Guangming District, Shenzhen

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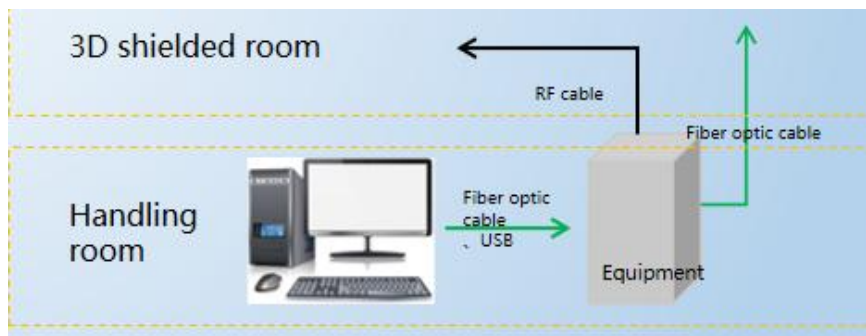
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1: Antenna test equipment

List of meters: Agilent 5071B;

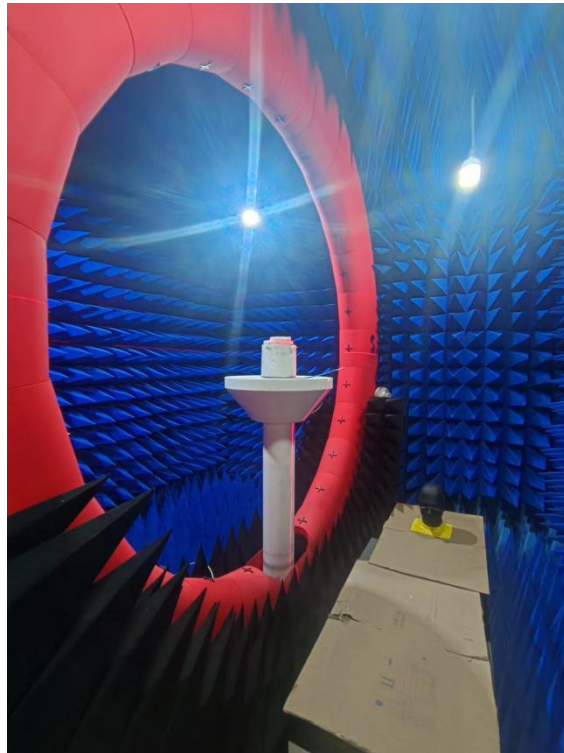


1.1 The principle diagram of the ETS anechoic chamber



Picture1. Antenna static test connection method

1.2 Pictures of the ETS anechoic chamber



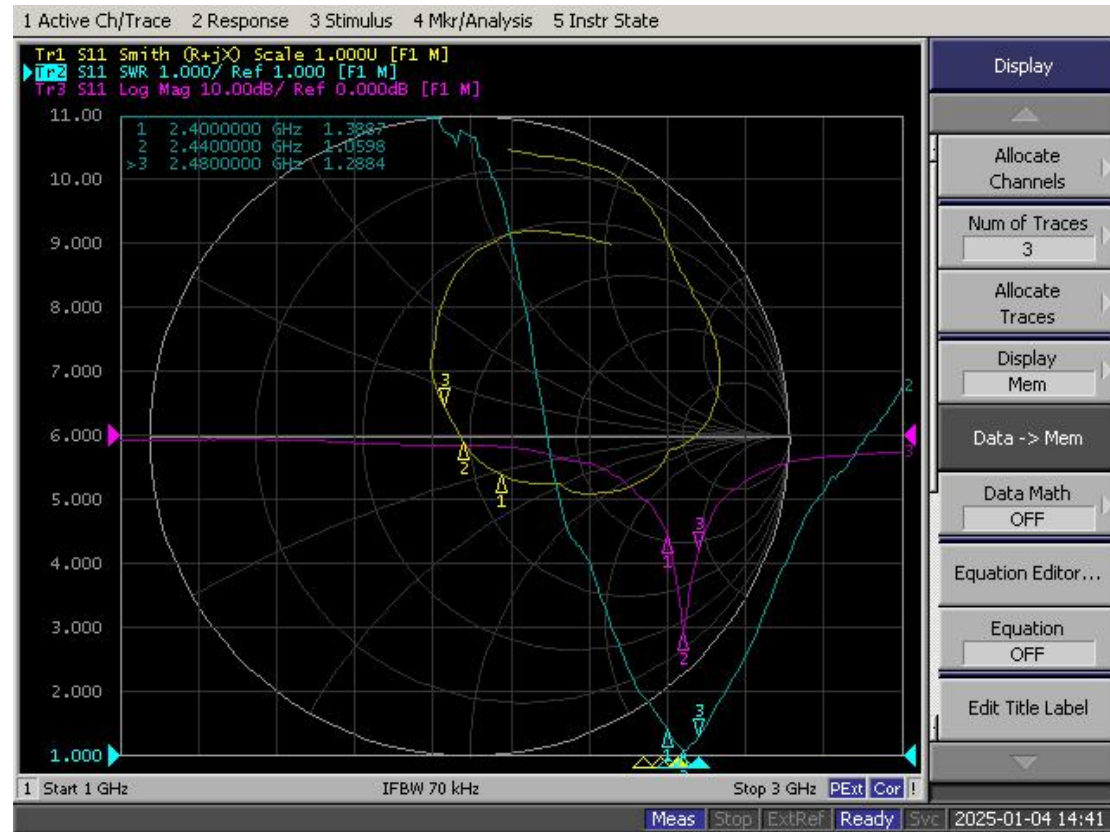
Inside the ETS anechoic chamber



Test Machine

2: Passive test report

2.1: BT antenna S11 parameters

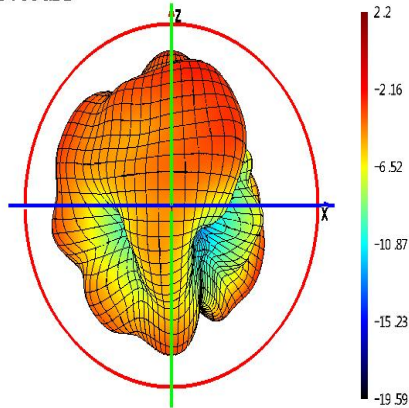


2.2: Passive efficiency of antenna

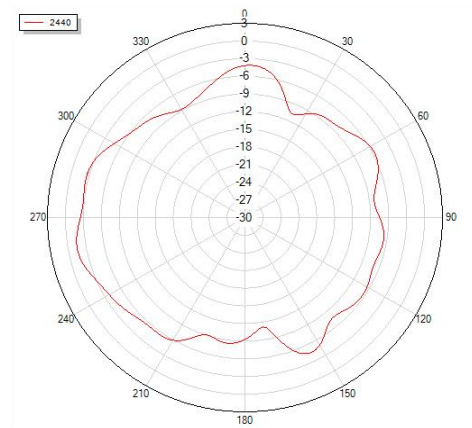
Freq(MHz)	Gain(dBi)	Efficiency(%)
2400	2.79	50.05
2410	2.64	49.17
2420	2.43	47.08
2430	2.43	47.31
2440	2.2	46.02
2450	2.21	45.97
2460	2.05	45.32
2470	2.19	47.84
2480	2.57	50.62

2.3: Passive pattern of BT antenna

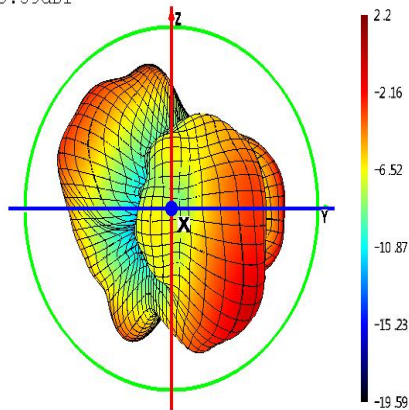
MAX: 2.2dBi
MIN: -19.59dBi



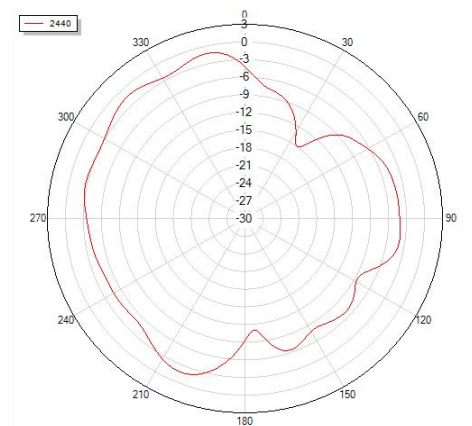
Phi=0 freq=2440MHz



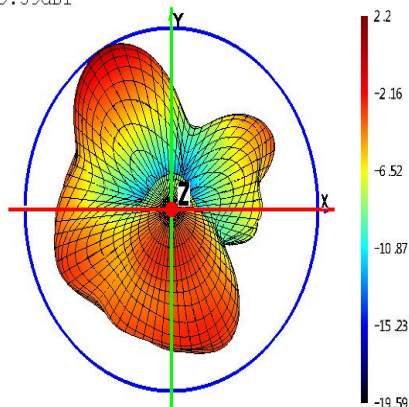
MAX: 2.2dBi
MIN: -19.59dBi



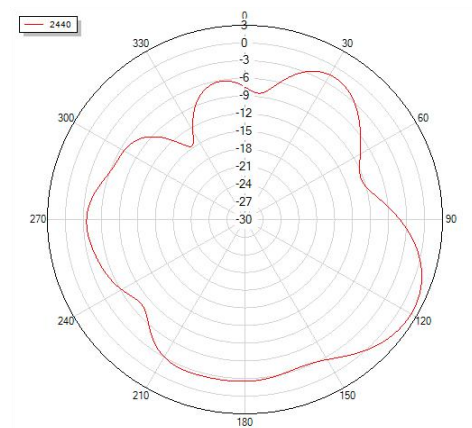
Phi=90 freq=2440MHz



MAX: 2.2dBi
MIN: -19.59dBi



Theta=90 freq=2440MHz



3: Structural drawing

