

Antenna Sample Datasheet

customer:	Dongguan Shiyute Electronics Co., Ltd
entry name:	SMBT-1704-R
Material category:	BT antenna
Antenna Type	PIFA
Antenna Material	FPC
edition:	A0
Date:	2024. 12. 20

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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1: Electrical characteristics

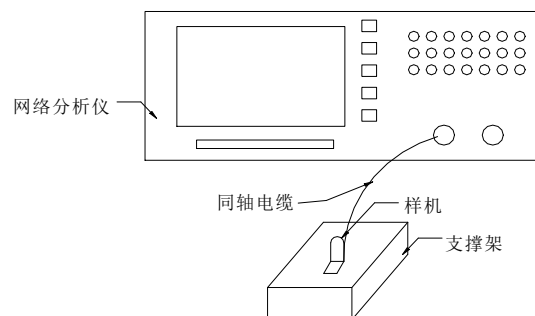
NO.	Item	Specifications
1	Frequenc Range	2400-2500MHz
2	Band Width	100MHz typ
3	The Perk Gain	-2.42dBi
4	V. S. W. R	<2.0
5	Polarizstion	Linear
6	Azimuth Beam width	Omni-directional
7	Impedance	50 Ω

2: Antenna test equipment

List of meters: Agilent 5071B;

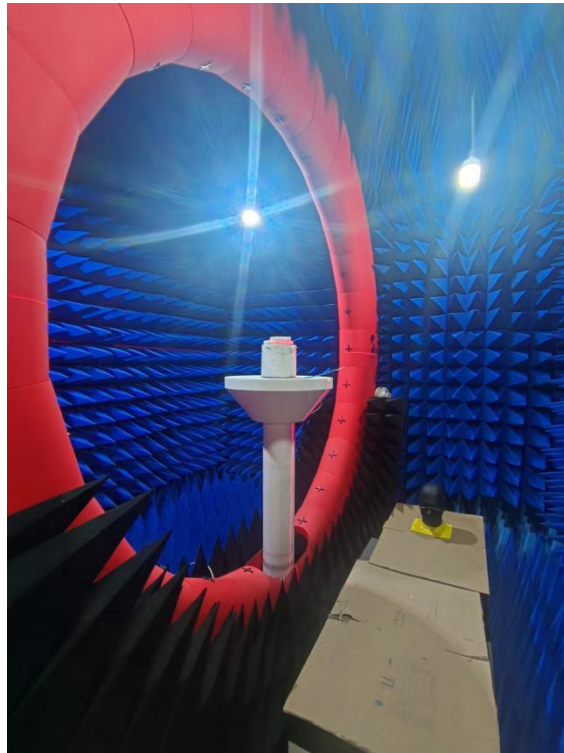


1.1The principle diagram of the ETS anechoic chamber



Picture1.Antenna static test connection method

1.2 Pictures of the ETS anechoic chamber



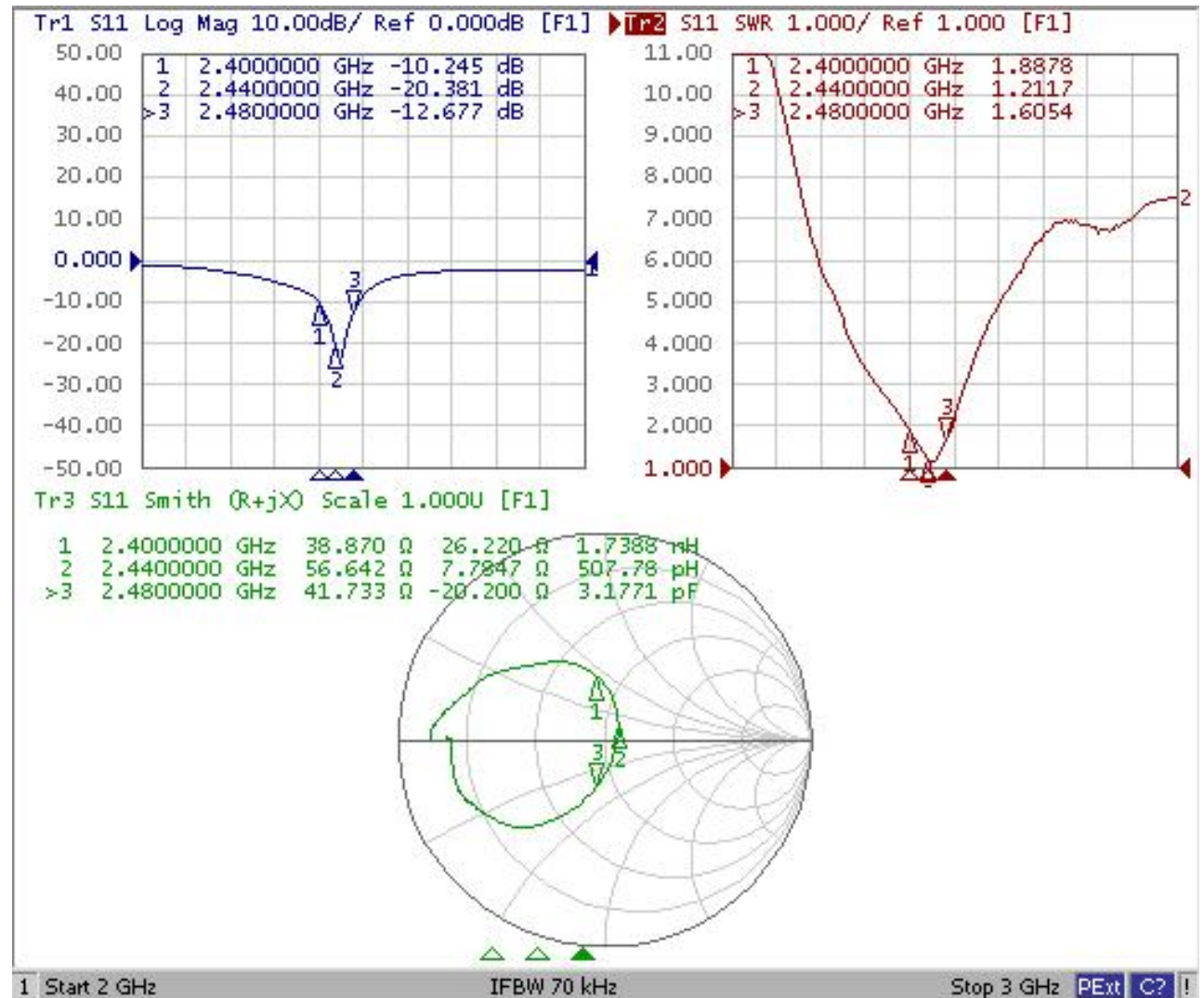
Inside the ETS anechoic chamber



Test Machine

3: Passive test report

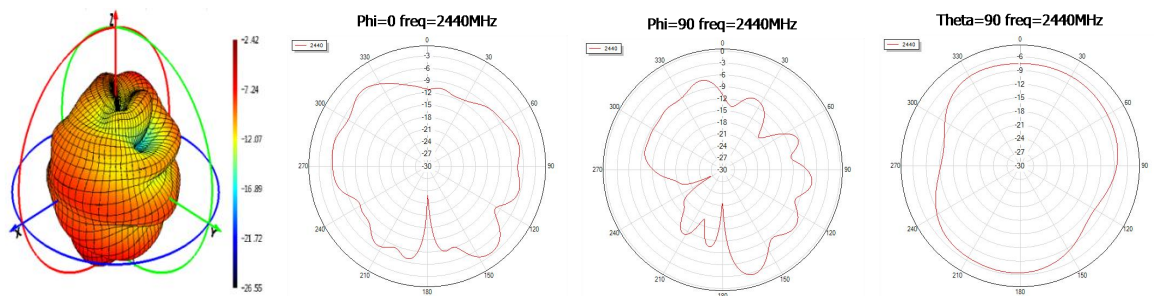
3.1: BT antenna S11 parameters



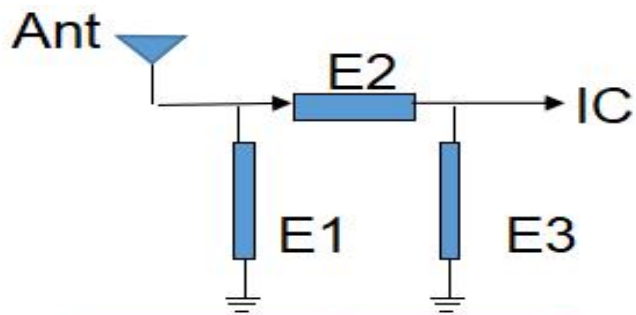
3.2: Passive efficiency of antenna

Freq(MHz)	Gain(dBi)	Efficiency(%)
2400	-3.52	14.78
2410	-3.16	15.08
2420	-2.9	15.47
2430	-2.74	15.89
2440	-2.42	15.37
2450	-2.88	16.22
2460	-2.96	16.78
2470	-2.74	16.08
2480	-2.51	15.47
2490	-2.69	14.55
2450	-2.71	14.8

2.3: Passive pattern of BT antenna



4: Matching circuit



Element	Value
E1	N/C
E2	0Ω
E2	N/C

5: Structural drawing

