

Antenna Sample Datasheet

customer:	Dongguan Hele Electronics Co., Ltd
entry name:	QT30-L
Material category:	BT antenna
Antenna Type	PIFA
Antenna Material	FPC
edition:	A0
Date:	2024.01.02



深圳市宇鸿实业有限公司

Shenzhen Yuhong Industrial Co., Ltd

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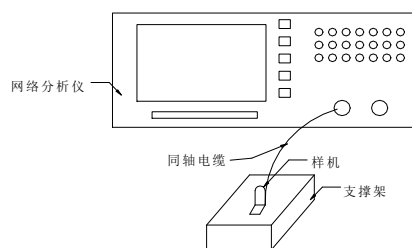
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1: Antenna test equipment

List of meters: Agilent 5071B;

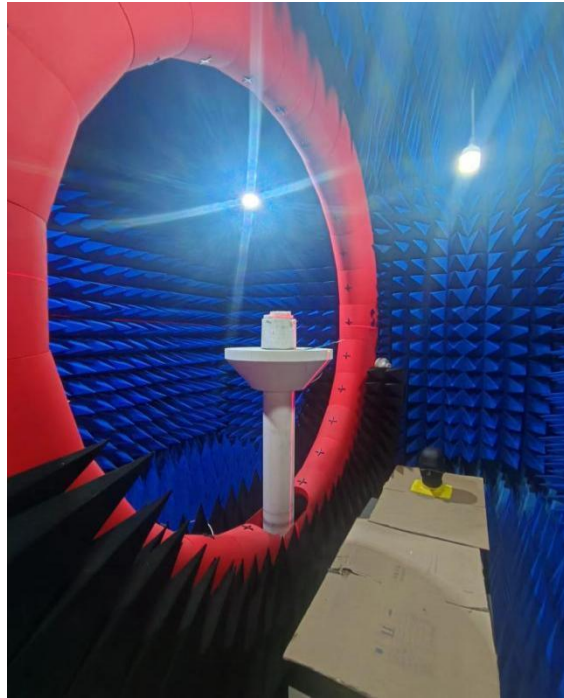


1.1 The principle diagram of the ETS anechoic chamber



Picture1. Antenna static test connection method

1.2 Pictures of the ETS anechoic chamber

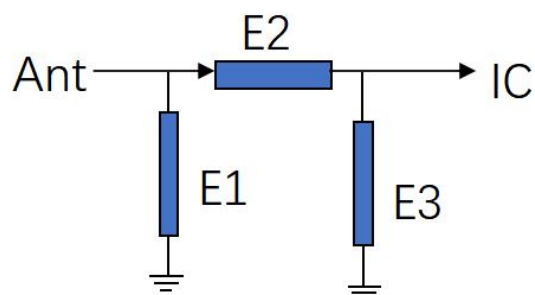


Inside the ETS anechoic chamber



Test Machine

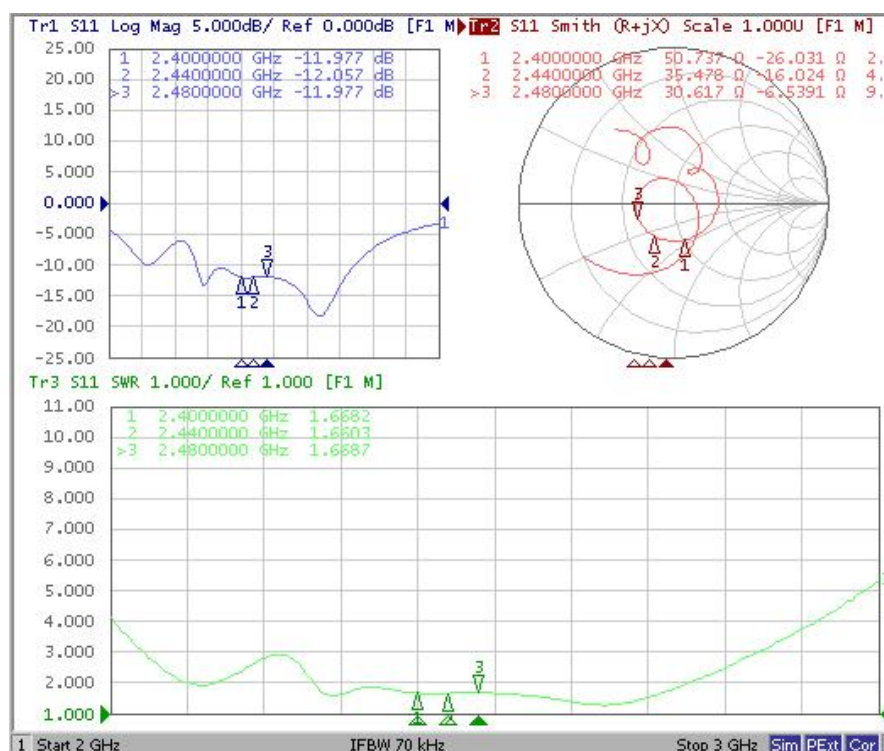
2: Matching circuit



Element	Value
E1	N/A
E2	0R
E3	N/A

3: Passive test report

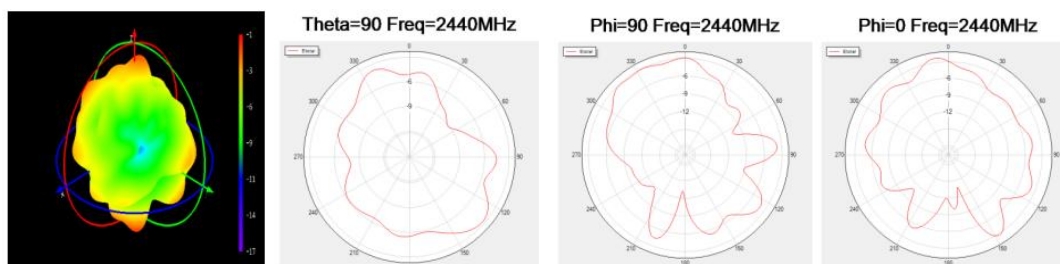
3.1: BT antenna S11 parameters



3.2: Passive efficiency of antenna

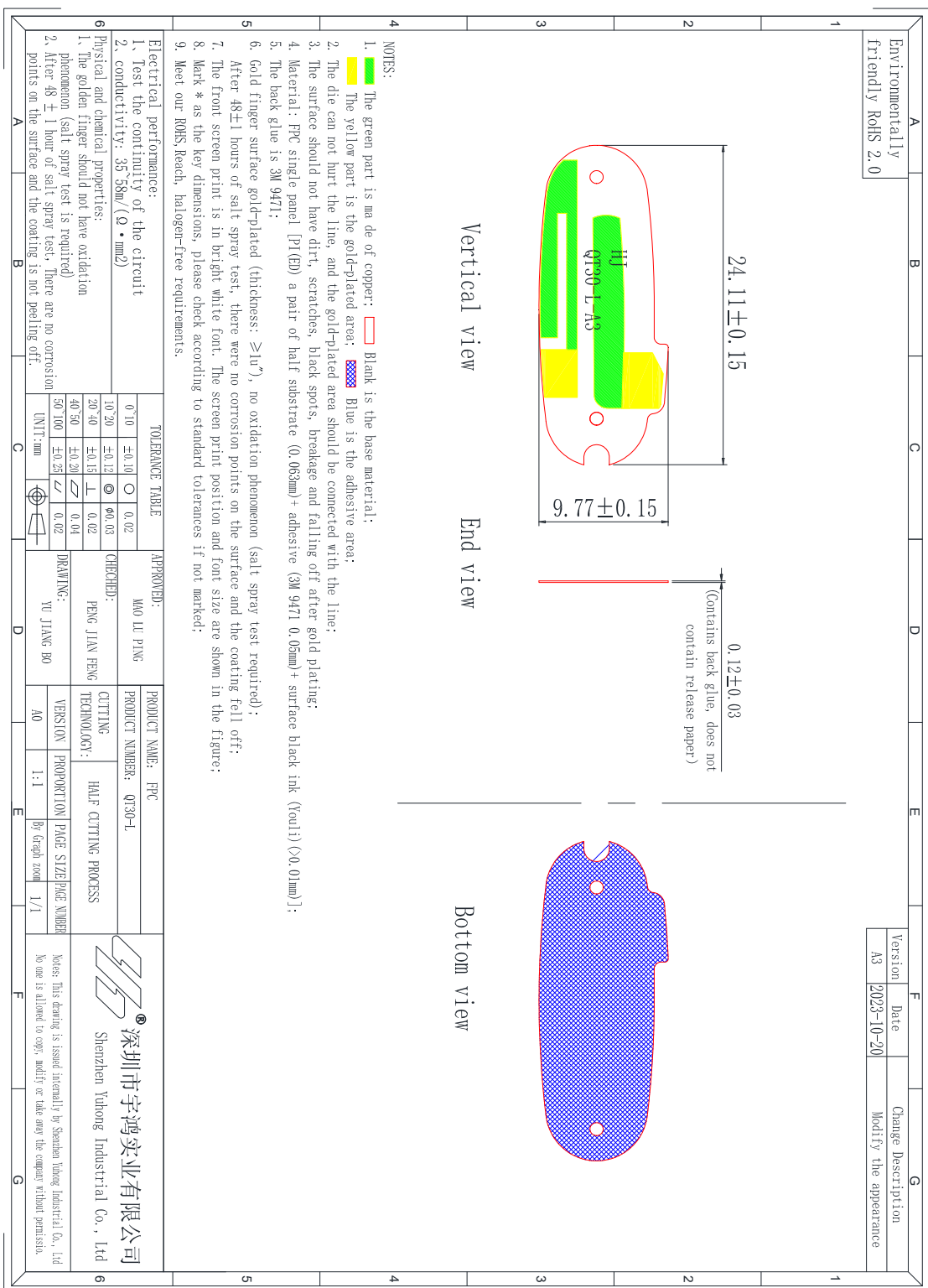
L				
Freq(MHz)	Gain(dBi)	Efficiency(%)	Gain(dBi)	Efficiency(%)
	free space-Left	free space-Left	free space-Right	free space-Right
2400	-2.46	25.17	-5.71	9.93
2410	-2.32	26.07	-5.27	9.81
2420	-2.1	26.77	-5.92	9.61
2430	-1.83	27.19	-5.71	10.22
2440	-1.5	27.49	-5.57	9.11
2450	-1.26	27.7	-5.56	10.05
2460	-1.23	27.79	-5.13	9.55
2470	-1.31	28.16	-5.2	9.58
2480	-1.29	28.93	-5.36	10.18
Mean value	-1.70	27.25	-5.49	9.78

3.3: Passive pattern of BT antenna





4: Structural drawing



5: OTA Test data

L	Channel	TRP (dbm)	TIS (dbm)
Free space	0	3.52	-88.26
	39	3.87	-88.56
	78	3.62	-88.58
L	Channel	TRP (dbm)	TIS (dbm)
Head model	0	-1.26	-83.16
	39	-1.09	-83.95
	78	-1.12	-83.64

6: Antenna diagram

