



SHENZHEN ATN COMMUNICATION TECHNOLOGY CO., LTD.

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SPECIFICATION FOR APPROVL

CUSTOMER:	TYM
CUSTOMER P/N:	L4-1565AM
OUR MODEL NO:	
SPECIFICATIONS:	2. 4G-2. 48G Ant
Q' TY:	1 PCS
DATE:	2022. 12. 12

Address: 504-505, XiaGu, Wonderful life creative valley, Xinan, Baoan, ShenZhen.
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一、Test Equipment&Conditions

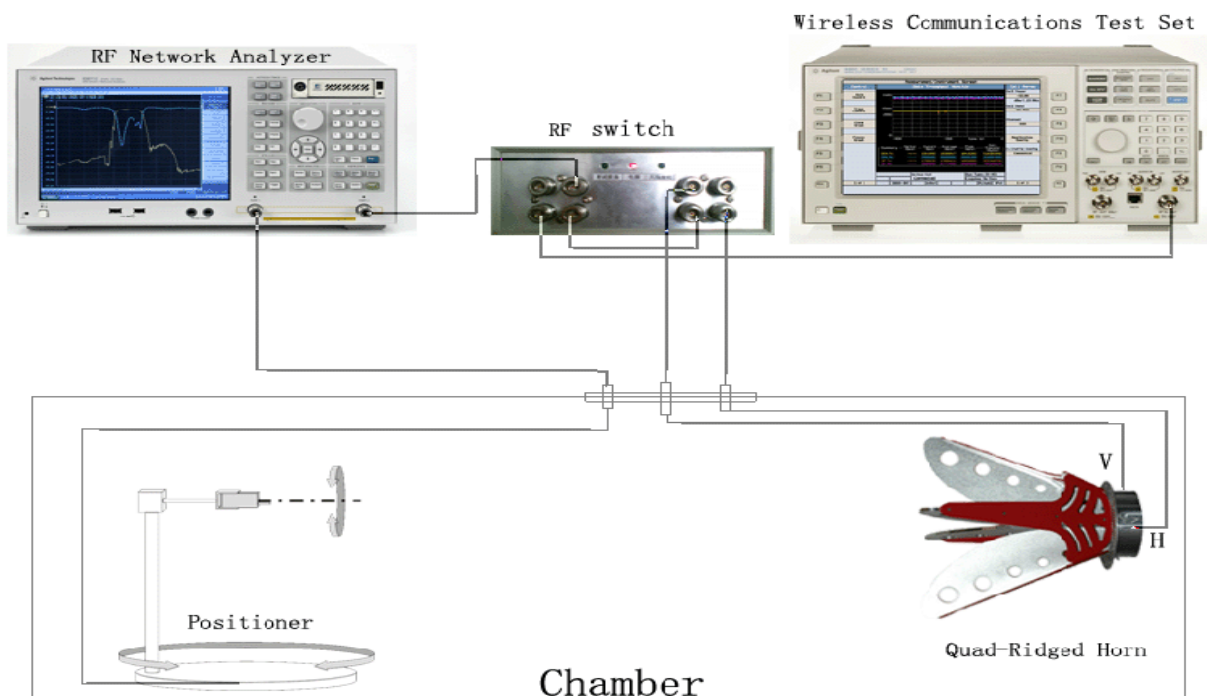
1.1 Network Analyzers

Agilent Technologies E5071B

1.2 Communications Test Set

CMW500

1.3 3D Chanber Test System



二、Product Specification

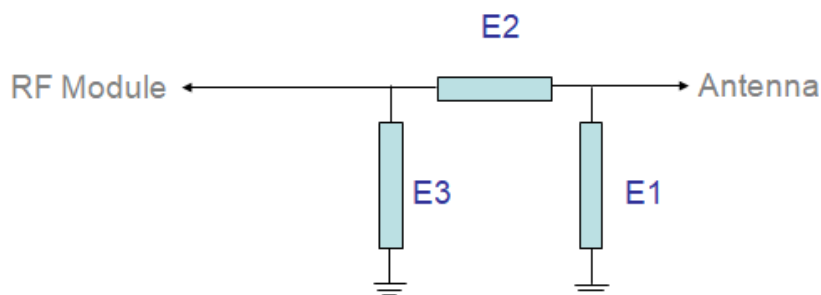
2.1、Material&Mechanical Characteristics

Material	FPC
Dimension	48.22mm*13.59mm

2.2、Environmental

Operation Temperature	-20℃~+80℃
Storage Temperature	-20℃~+80℃

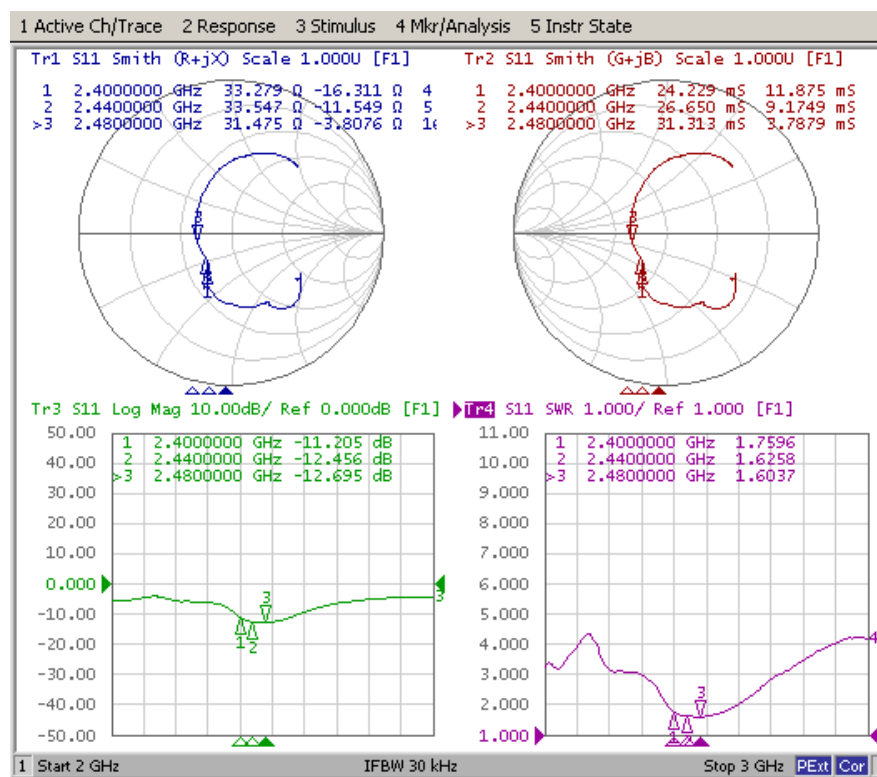
3、Matching circuit



Element	Value
E1(0201)	NC
E2(0201)	0Ω
E3(0201)	NC

4、Test Data Report

4.1 Standing wave diagram

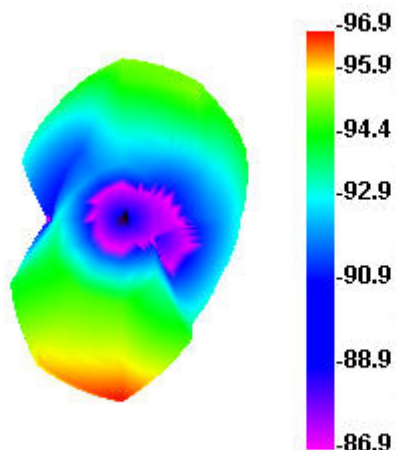


4.2 Gain & Efficiency

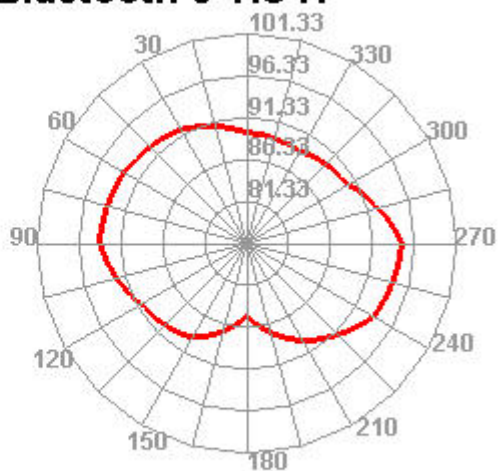
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	57.18	-2.43	3.12
2410	56.92	-2.45	3.2
2420	59.82	-2.23	3.51
2430	64.01	-1.94	3.85
2440	63.58	-1.97	3.81
2450	66.03	-1.8	4.75
2460	67.14	-1.71	4.72
2470	62.08	-2.02	4.32
2480	61.02	-2.15	4.18

4.3 Pattern plots

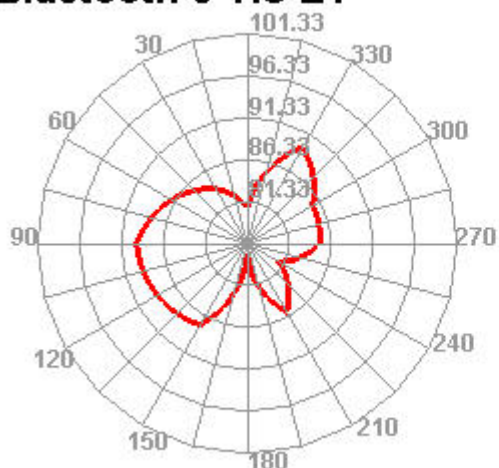
Bluetooth 0 TIS



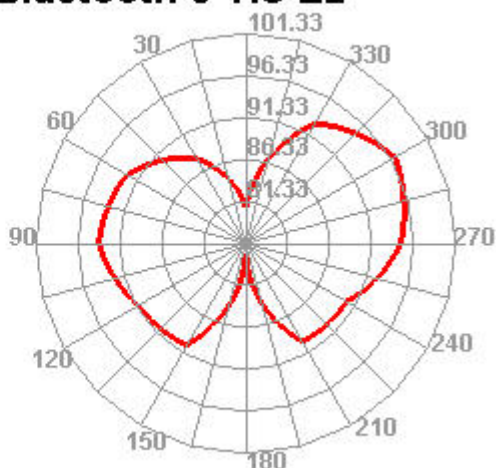
Bluetooth 0 TIS H



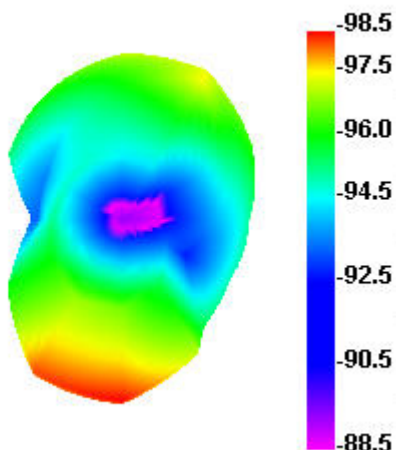
Bluetooth 0 TIS E1



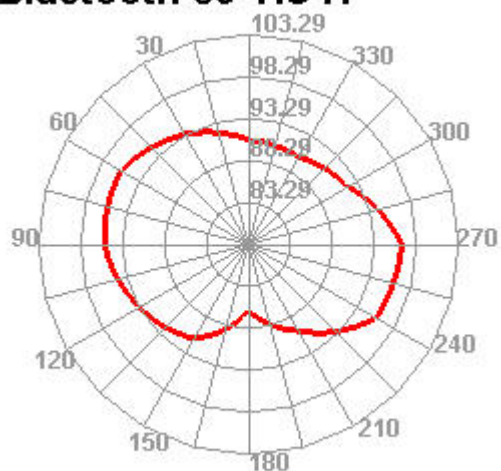
Bluetooth 0 TIS E2

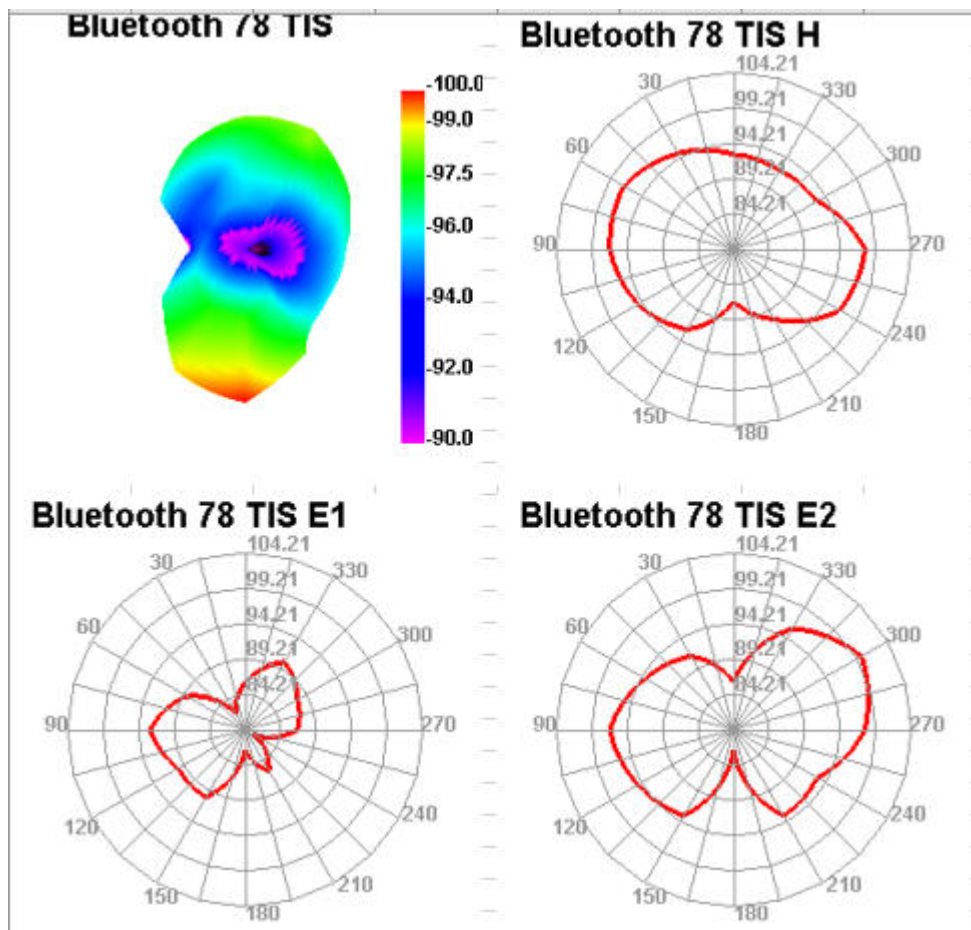


Bluetooth 39 TIS

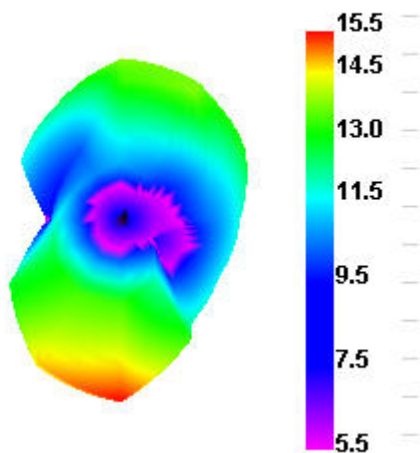


Bluetooth 39 TIS H

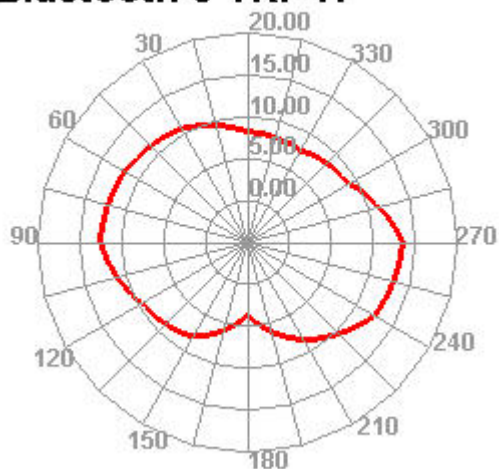




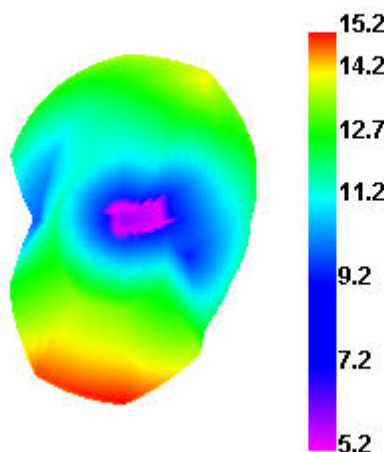
Bluetooth 0 TRP



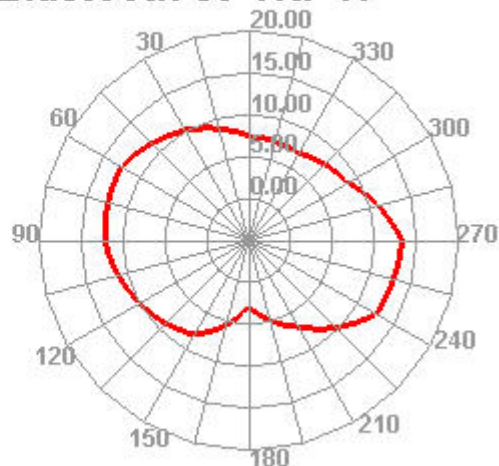
Bluetooth 0 TRP H



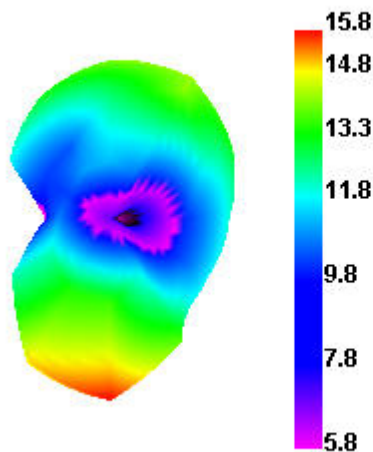
Bluetooth 39 TRP



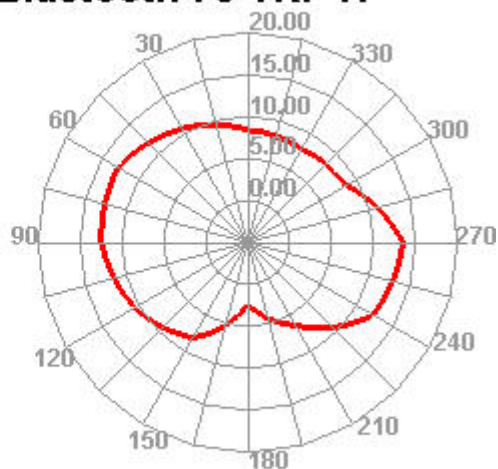
Bluetooth 39 TRP H



Bluetooth 78 TRP



Bluetooth 78 TRP H



4.4 OTA Test Data

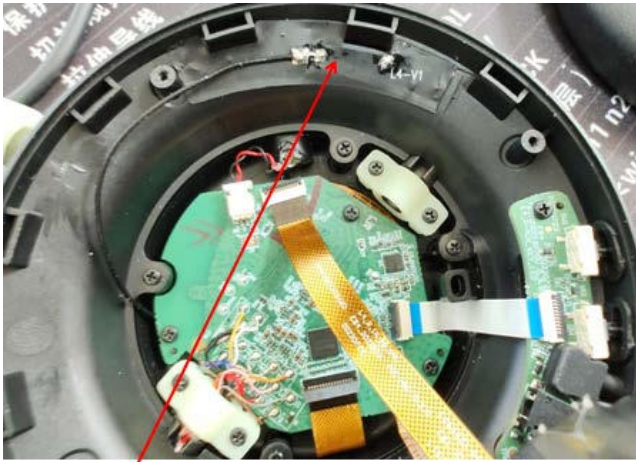
band	channel	TRP (dBm)	TIS (dBm)
Bluetooth BR	0	7.9	-89.5
	39	8.6	-90.2
	78	7.9	-90.3

band	channel	TRP (dBm)	TIS (dBm)
Bluetooth BR	0	5.8	-87.2
	39	6.2	-87.1
	78	5.9	-88.2

4.5 Measured data

Test phone	Samsung S8
Listen to Music Omnidirectional (m)	16

5、Assembly requirements

1	 Antenna assembly position
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6、Product Drawing

