

D153 Antennae report
product model name antenna model
name PCB Antenna

Test Equipment: Agilent5071

1、Antenna manufacturers

Our Bluetooth antenna is directly used in the PCB onboard mode, the antenna is copper park and tin injection process, copper foil thickness: H / H0Z, the plate is FR-4 thickness of 1.2mm material;

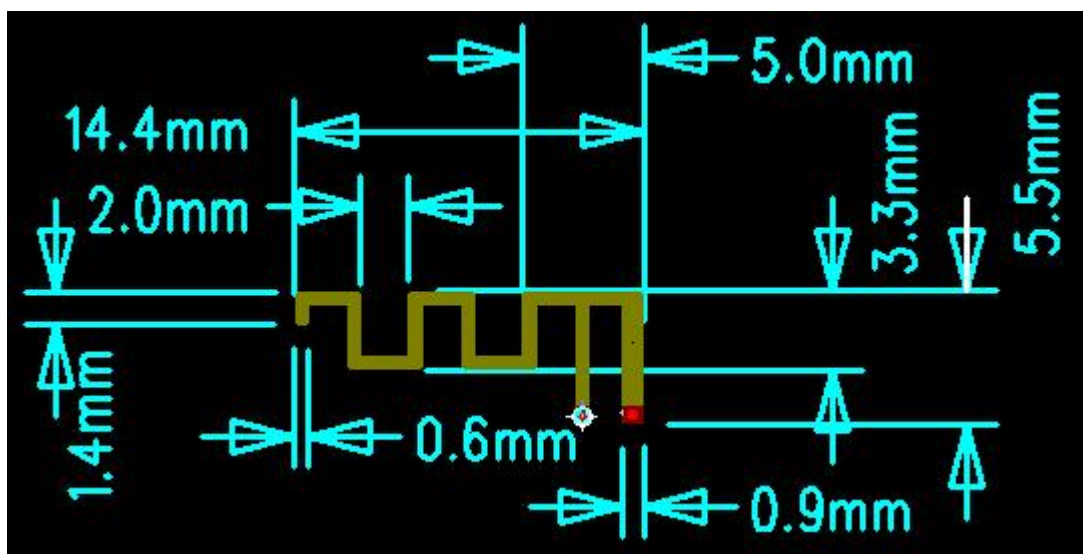
PCB manufacturer :

MEIZHOU CITY HONGLI PRINTED GIRCUIT BOARD CO .LTD

2、Antenna appearance

1.Dimensioned drawing : 14.4*5.5mm

2. Antennae picture:

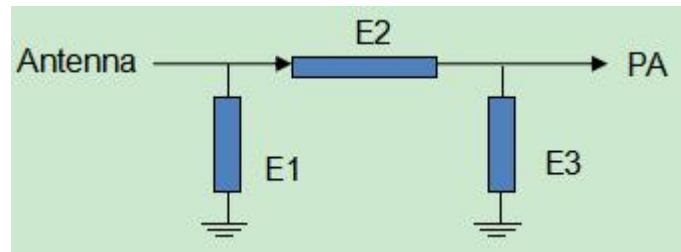


D153 Antennae report

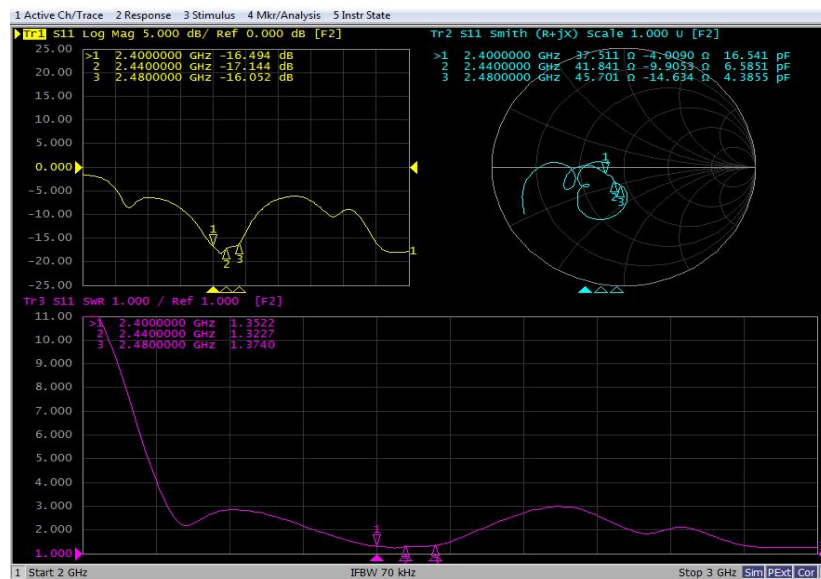
3、Electrical Characteristics

The antenna na matching circuit:

BT	
Element	
E1(0402)	3.9nH
E2(0402)	1.8pF
E3(0402)	NC



Antennae S11 test:



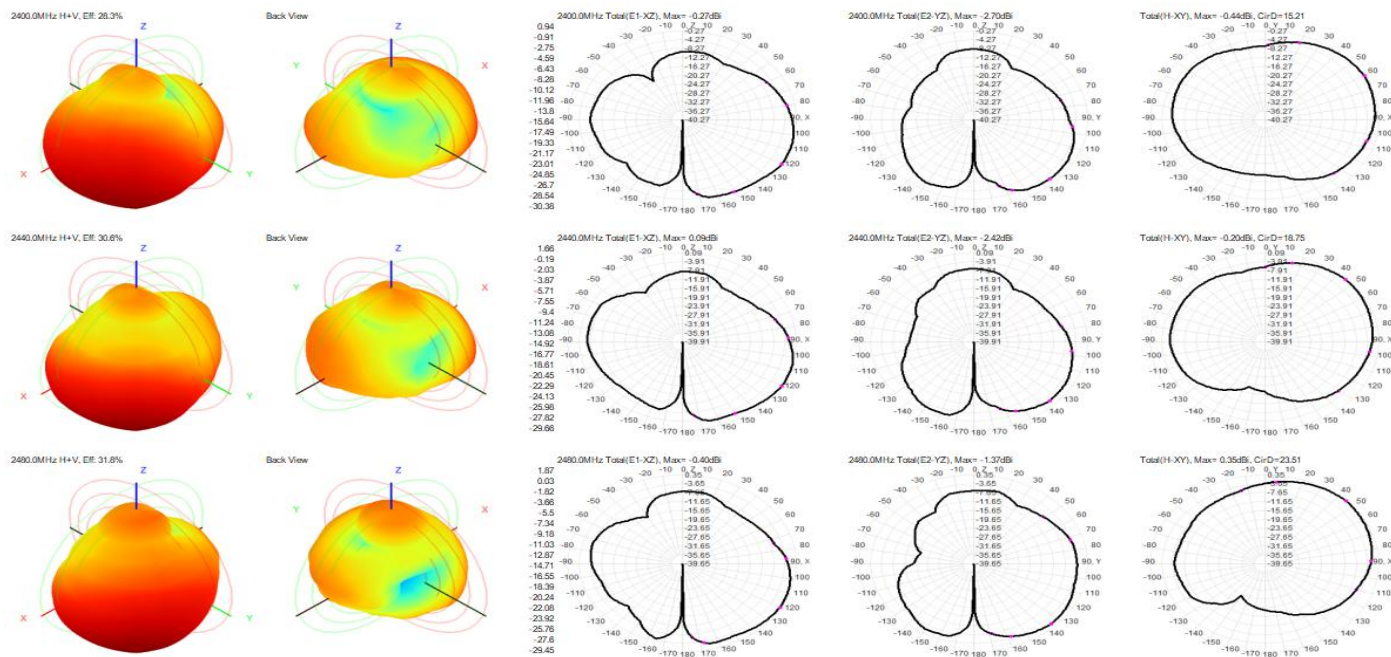
Freq (MHz)	2400	2440	2480
SWR	1.35	1.32	1.37
Log Mag	-16.49	-17.14	-16.05

D153 Antennae report

Antennae Gain:

Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	0.94	28.31
2410	0.86	29.03
2420	0.74	29.67
2430	1.39	30.51
2440	1.66	30.59
2450	1.45	29.85
2460	1.80	31.72
2470	1.79	31.40
2480	1.87	31.76
2490	2.04	33.03
2500	2.07	34.20

Direction diagram of passive antenna:



D153 Antennae report

Antennae OTA test :

Channels	TRP	TIS
0	0.16	-80.78
39	1.3	-84.6
78	1.83	-83.62

3.1 Test methods and test standards:

Name	Parameter	Method	Standard no.
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-2021

3.2Instrument list and calibration date:

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date.
Network Analyzer	Agilent	E5071B		2024.11..04	2025.11.04
Antenna	RS	CMW500		2024.11..04	2025.11.04
Chamber	FUTUKEJI	4*4*3.5		2024.11..04	2025.11.04

D153 Antennae report

3.3 Antennae manufacturers report

Test Lab Name: Shenzhen Worldelite Electronic CO.,LTD

Test laboratory address: 1st Floor, Building 4, Xiangyuer Industrial Park,
No. 8 Longsheng Road, Longgang District, Shenzhen

Tester: Li Yuepeng

Test date:2025.1.20

3.4 Test photos:



D153 Antennae report

3.5 Test configuration diagram:

