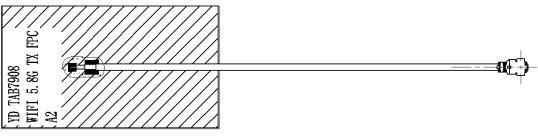
Antenna Type: FPC Antenna Antenna Size: 3.9cm(L)*2.2cm(W) Antenna Manufacture: Yuande Electronics (Shenzhen) Co., LTD Address:101-1, Plant No. 4, Xiangyuer Cosmetics Longgang Factory, No. 8, Longsheng Road, Longgang Community, Longgang Street, Longgang District, Shenzhen Antenna Model Number: 136-B7908-20A

1 Specification

This report mainly provides the test status of various electrical and structural performance parameters of 5.8G Ant.





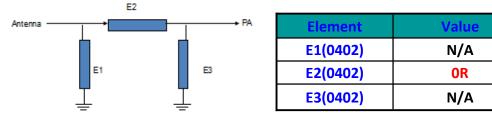
1.1 Electrical specification standard

1.1.1 Electrical performance index

The antenna works at 5729-5849MHz

Ant	5.8G Ant 5729-5849MHz	
Freq.		
SWR	< 2.0	
Efficiency	Efficiency> 40%impedance50 ohm	
im p edance		
Polarization mode	Linear p olarization	

1.1.2 Match the circuit diagram



2 Test

Antenna commissioning and testing with the prototype provided by the customer.

2.1 Test the passive S11

2.1.1 Test connection

The connection of passive S11 test device is as follows: network analyzer \rightarrow test line \rightarrow test fixture.

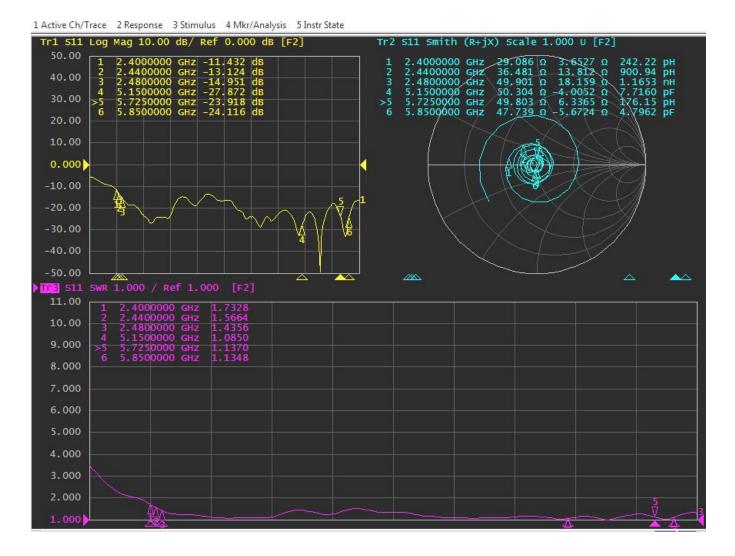
2.1.2 Passive S11

below.

The following table shows the value of standing wave ratio of the frequency points at the edge of the working band of the antenna. ReturnLoss and VSWR related waveforms obtained from the test are shown in the figure

ł

Freq. (MHz)	5725	5850	
VSWR	1.13	1.13	
Return Loss	-23.91	-24.11	



2.2 Measurement of gain and efficiency

2.2.1 Test site

Yuande microwave anechoic chamber: Test frequency range is 400MHz - 6GHz

2.2.2 Instrument for testing

Network analyzer, standard horn antenna, multi-probe near-field antenna test system, test computer, etc.

2.2.3 Test result

In the microwave darkroom, the values related to efficiency and gain measured are shown in the table below

Frequency(MHz)	Gain(dBi)	Efficency(%)
5725	2.83	46.78
5735	2.79	46.13
5745	2.66	45.79
5755	2.71	45.59
5765	2.67	45. 27
5775	2.85	44. 82
5785	2.81	44. 34
5795	2.94	44.54
5805	3.01	44.68
5815	2.99	44. 50
5825	3.01	43. 89
5835	2.98	43.75
5845	3.01	43.69

2.2.4 Passive radiation direction diagram

