

Antenna Test Report

Customer: Looki

Project: Chestnut

WIFI/BT Antenna: 316000312273

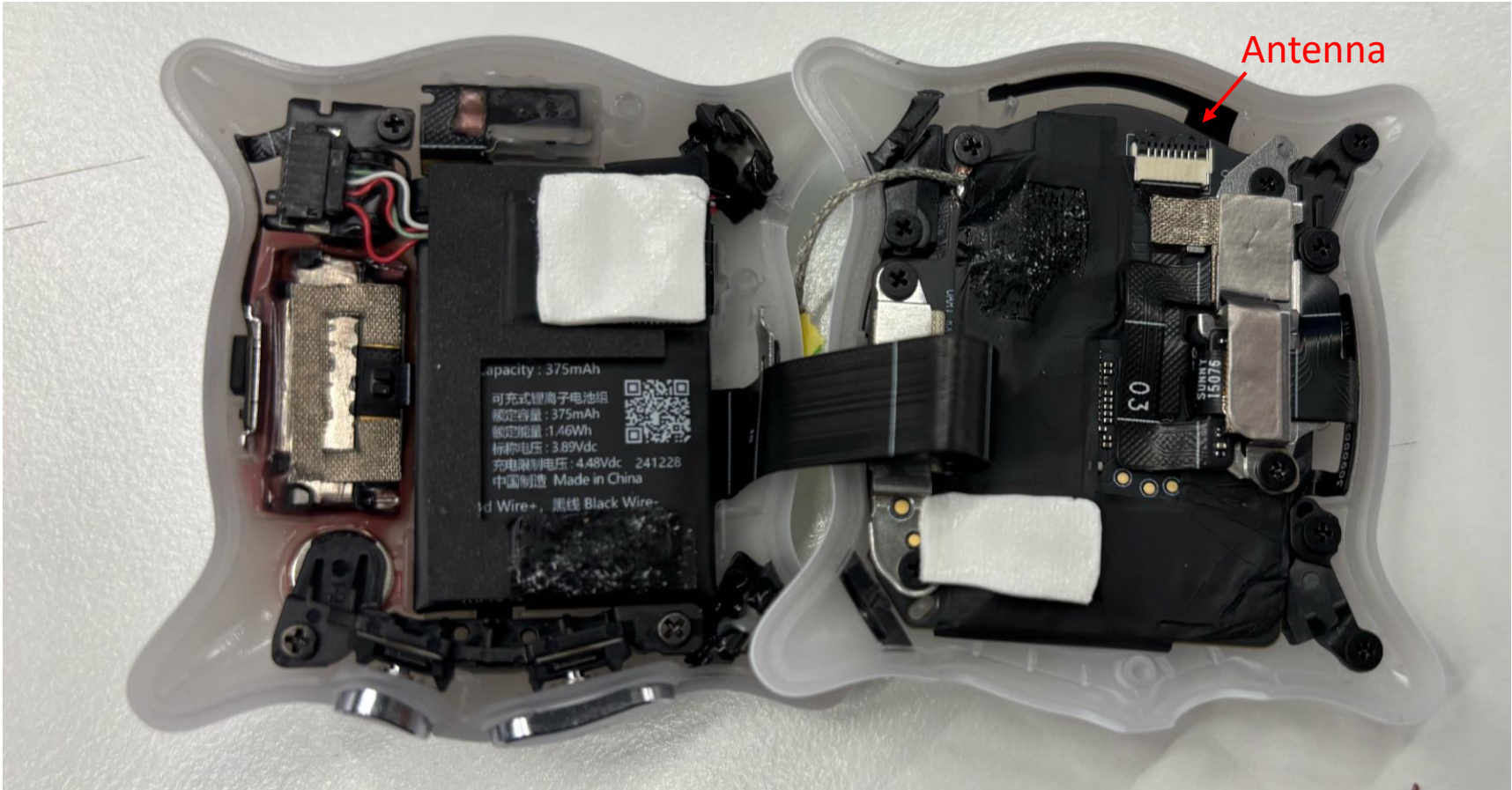
Product: WIFI/BT Antenna-FPC



2025.6

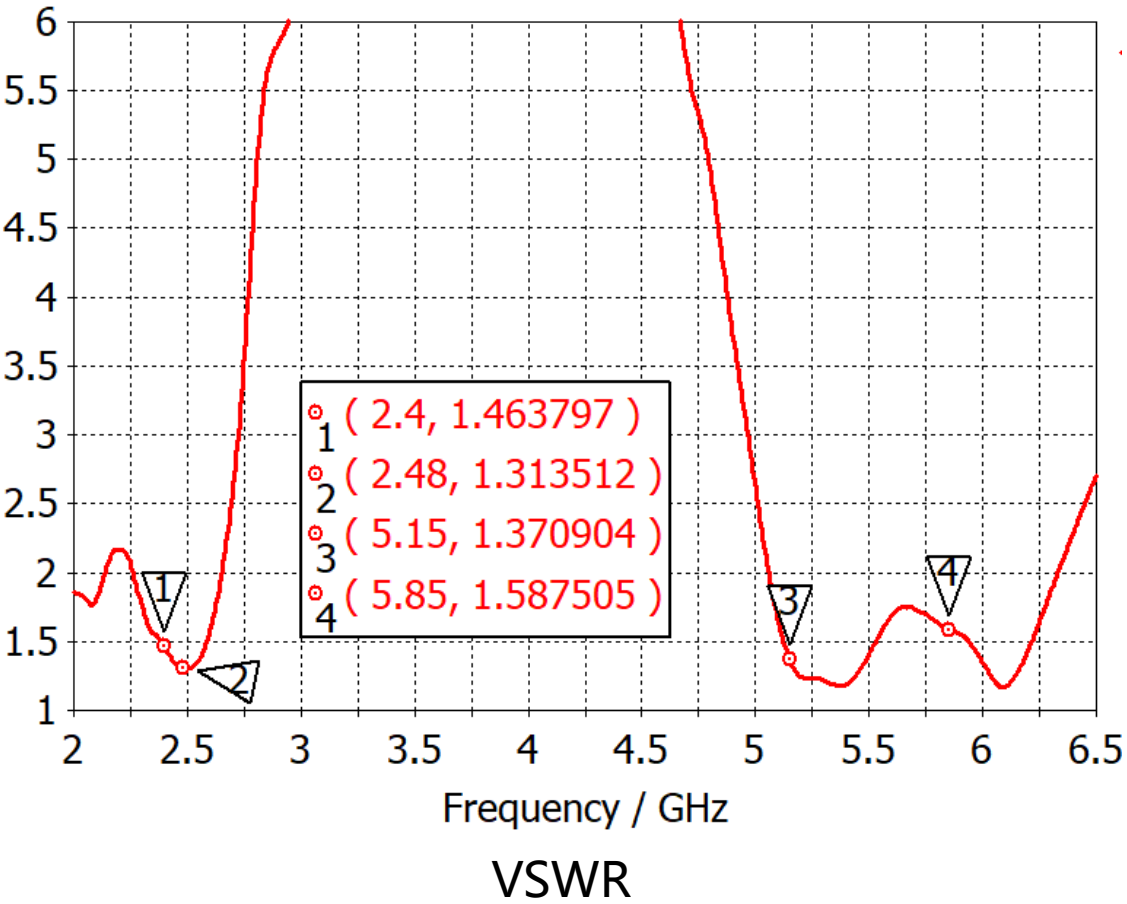
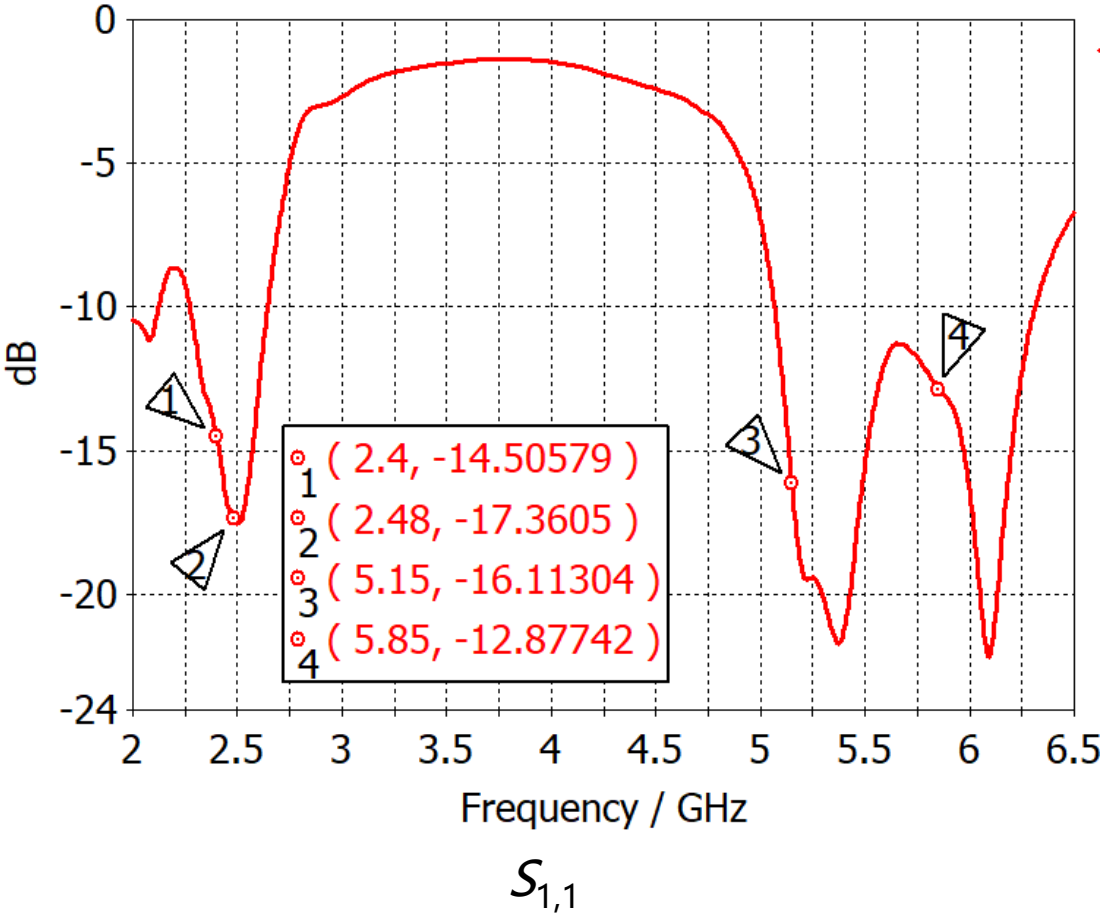
Prepared by: Ziheng Ding





2. Test Results

2.1 $S_{1,1}$ /VSWR



2. Test Results

2.2 WIFI Antenna TRP/TIS

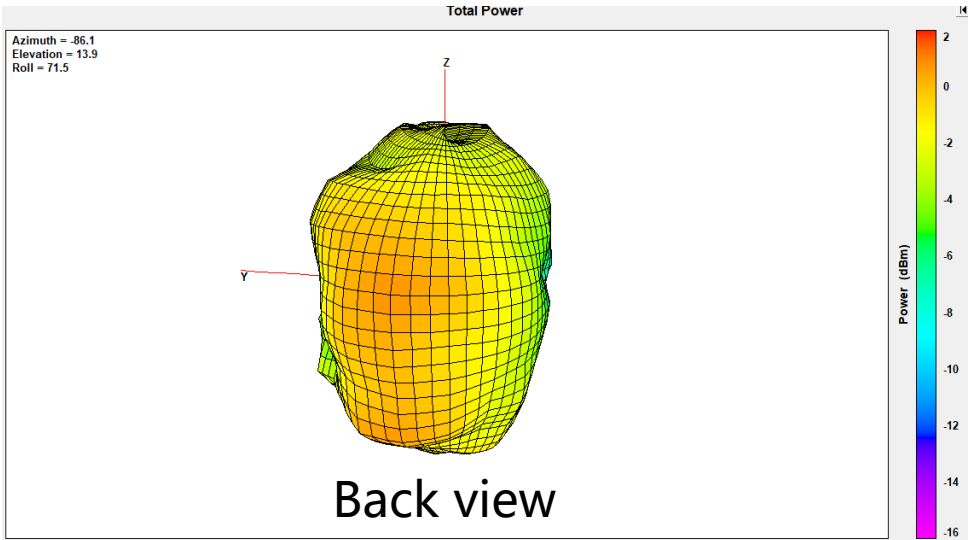
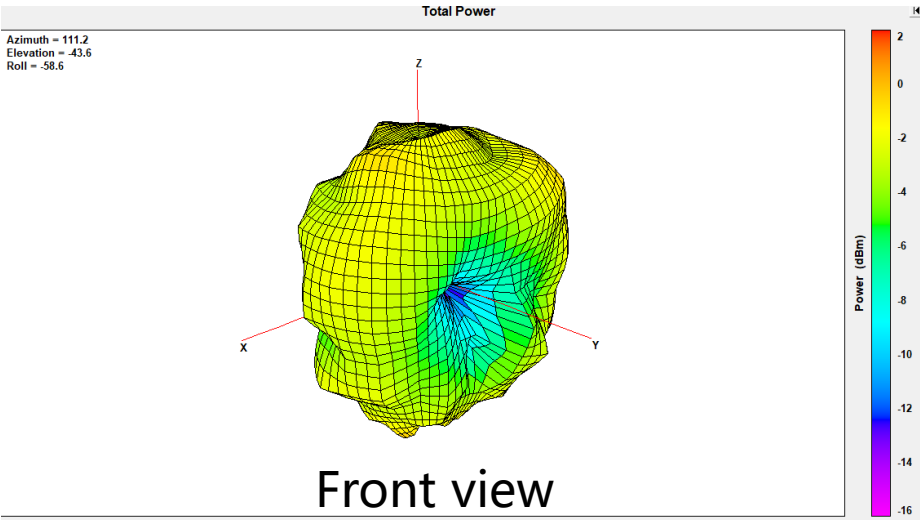
WIFI	CH	TRP (6Mbps)	TIS (54Mbps)
802.11g	1	14.8361	-72.9407
	6	15.474	-73.3096
	11	15.054	-72.2675
WIFI	CH	TRP (6Mbps)	TIS (54Mbps)
802.11a	36	14.6217	-71.5674
	149	14.0124	-70.7327
	165	13.9765	-69.7338

2. Test Results

2.3 WIFI Antenna Gain/Efficiency/Radiation Pattern

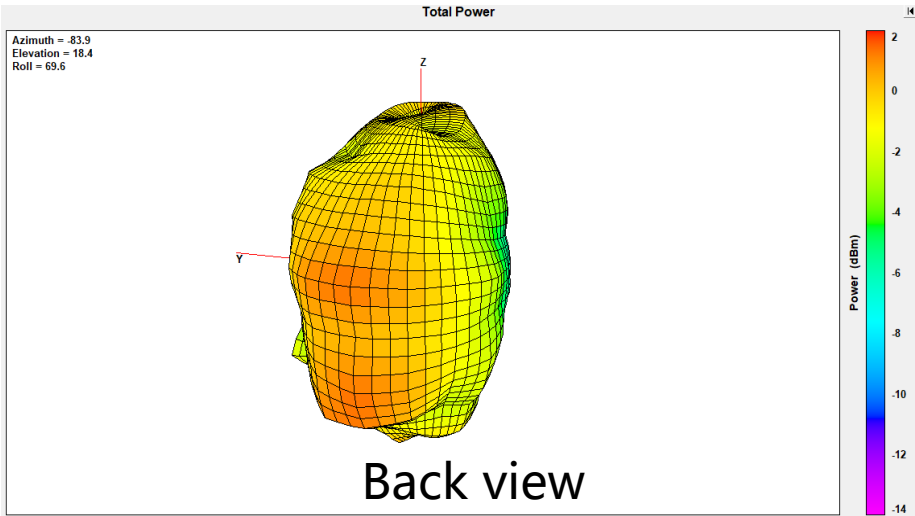
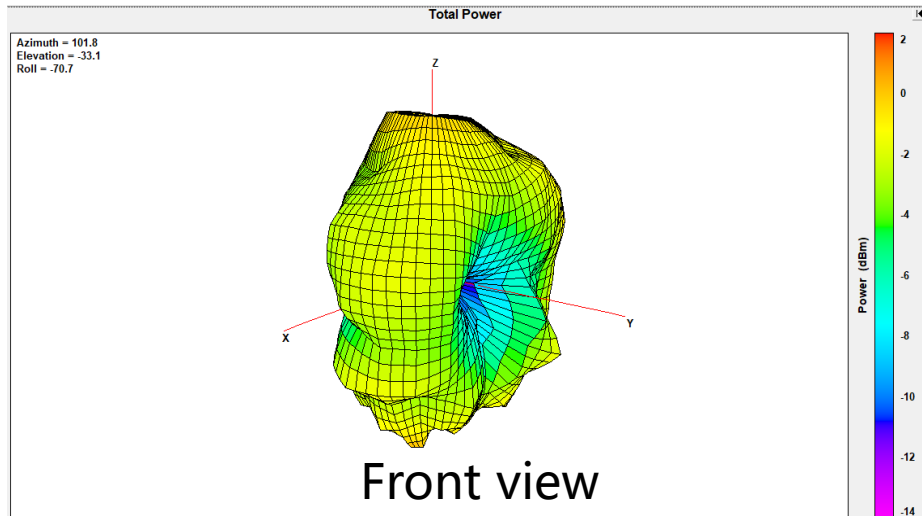
Frequency (MHz)	2400	2420	2440	2460	2480	2500	5150	5350	5480	5650	5850
Efficiency(dB)	-3.17366	-2.71058	-2.65718	-3.22548	-3.49713	-3.28268	-5.39439	-4.84311	-4.1549	-4.69283	-5.92103
Efficiency (%)	48.1542	53.5725	54.2354	47.583	44.6979	46.9604	28.8776	32.7861	38.4158	33.9404	25.5798
Gain (dBi)	0.295757	1.08277	0.941602	0.510204	0.175785	0.341306	-1.4365	0.268576	1.86528	1.41469	-0.8963

2410MHz

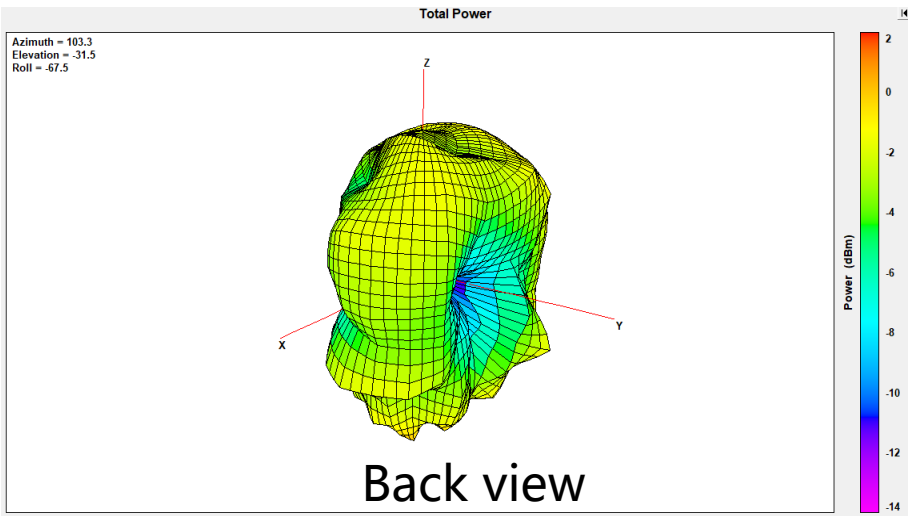
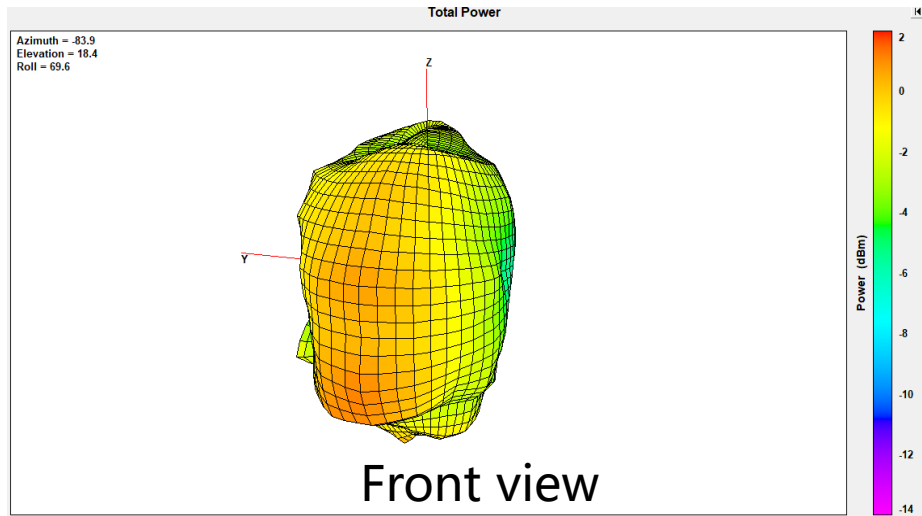


2. Test Results

2450MHz

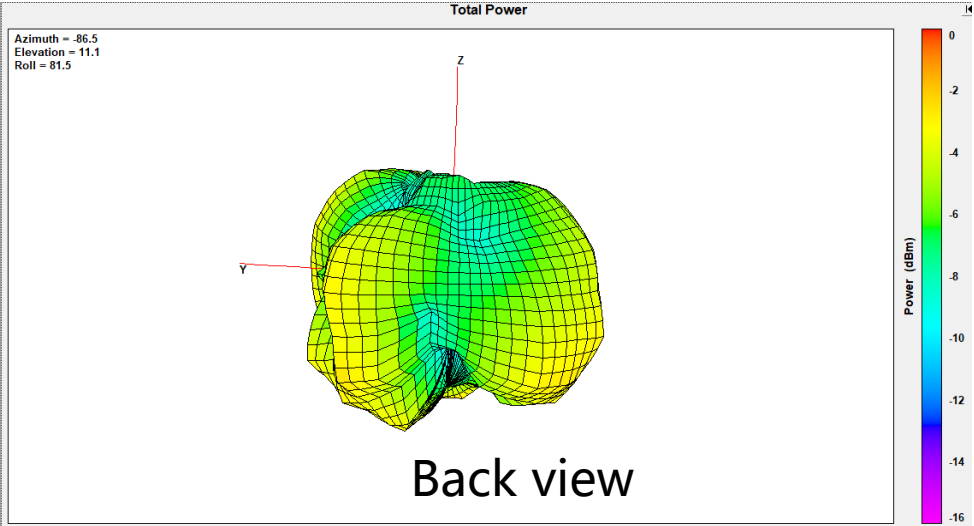
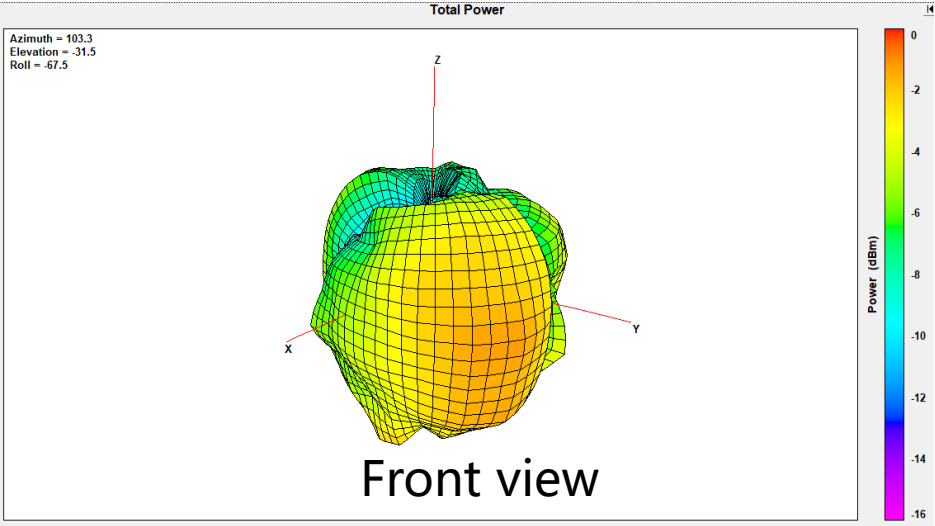


2480MHz

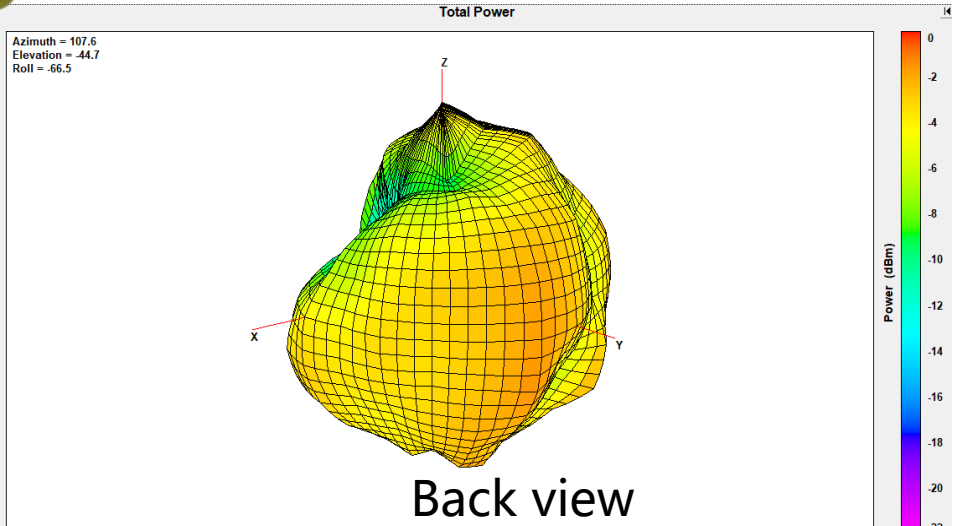
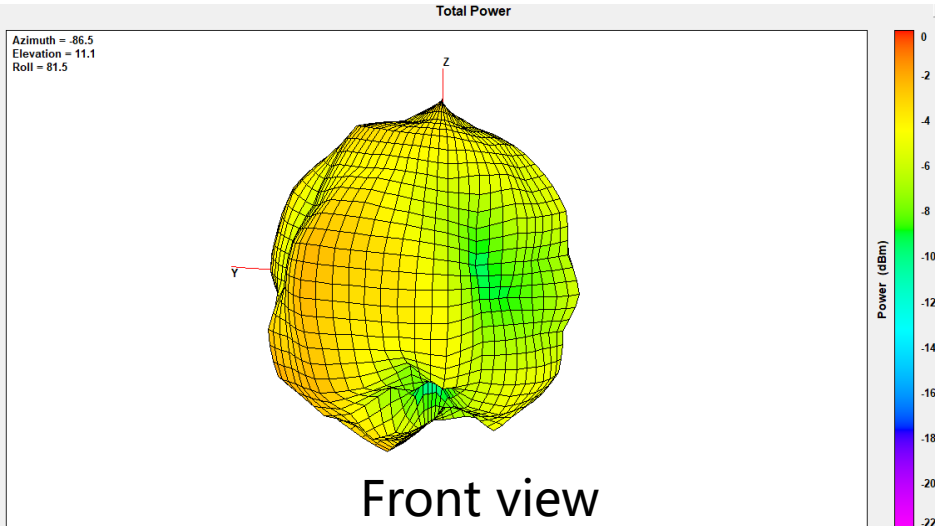


2. Test Results

5150MHz

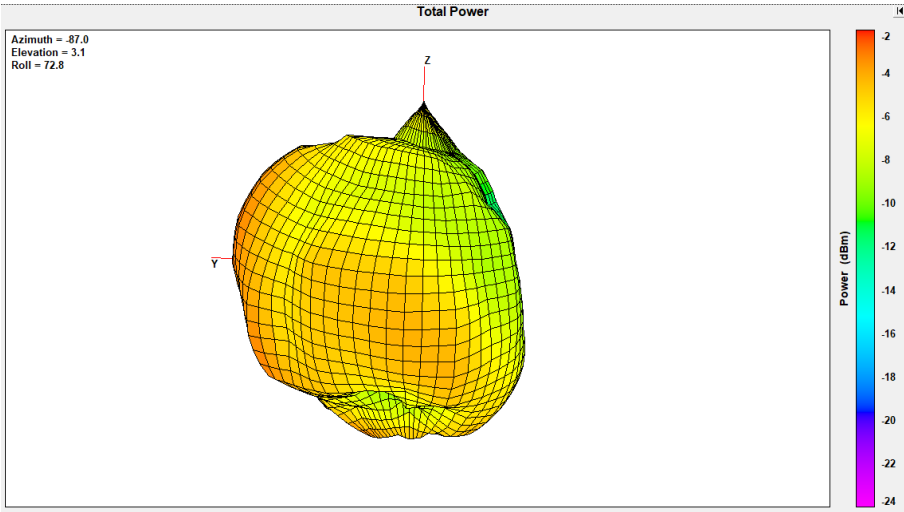
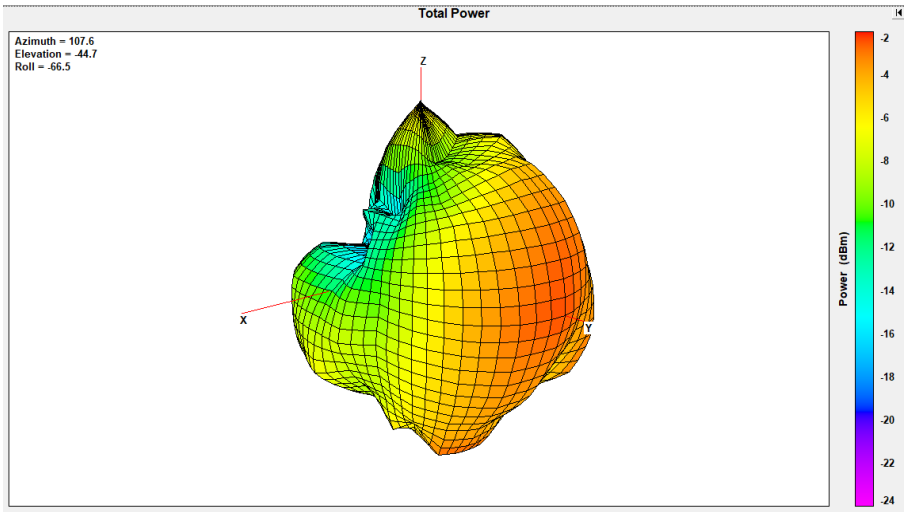


5500MHz



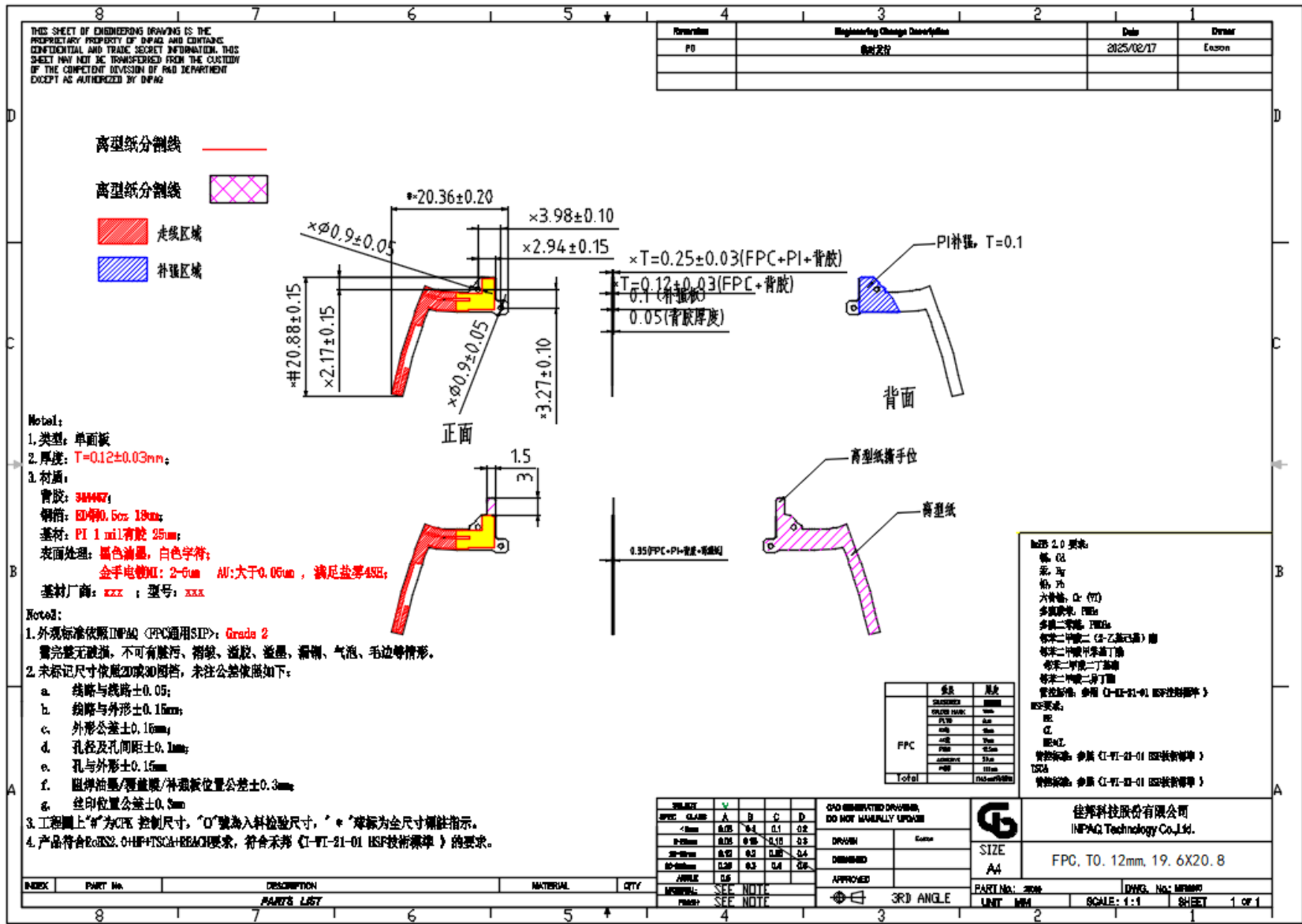
2. Test Results

5850MHz



2. Test Results

2.4 Antenna size diagram



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