

Antenna specifications

Electrical Characteristics Description

Model:	Dublin antenna		
Transmitter Frequency:	2400MHz-2483.5MHz		
Receiver Frequency:	1170 MHz -1180 MHz、 1570MHz-1580MHz、 2400MHz-2483.5MHz		
Antenna information:	Antenna Name	Model(s)/Type(s)	
	RF Antenna Assembly	Model/Part Number:	Dublin antenna
		Manufacturer:	Anhui Huami Information Technology Co., Ltd.
		Address:	Room 401-1, Building H8, Hefei Innovation Industrial Park Phase II, No.2800, Chuangxin Road, High-tech Zone, Hefei City, Anhui Pilot Free Trade Zone, China
		Frequency Range:	1170 MHz -1180 MHz 1570MHz-1580MHz 2400MHz-2483.5MHz
		Connector Type/ Maximum Gain	GNSS: -4.07dBi BT/2.4GWiFi: -4.23dBi
		Antenna Type/ Pattern:	Metal Antenna
		Antenna Size	See below pic
		Measurement:	NA

Dimensions

Dimensions Fig:

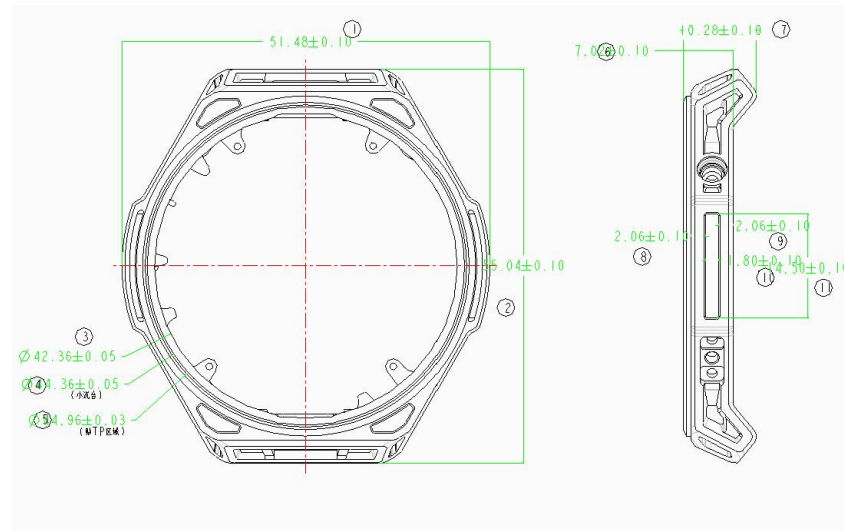


Fig. 1 Antenna Dimensions

Electrical Performance

S11 parameter-GPS L1 test result as Fig.2.

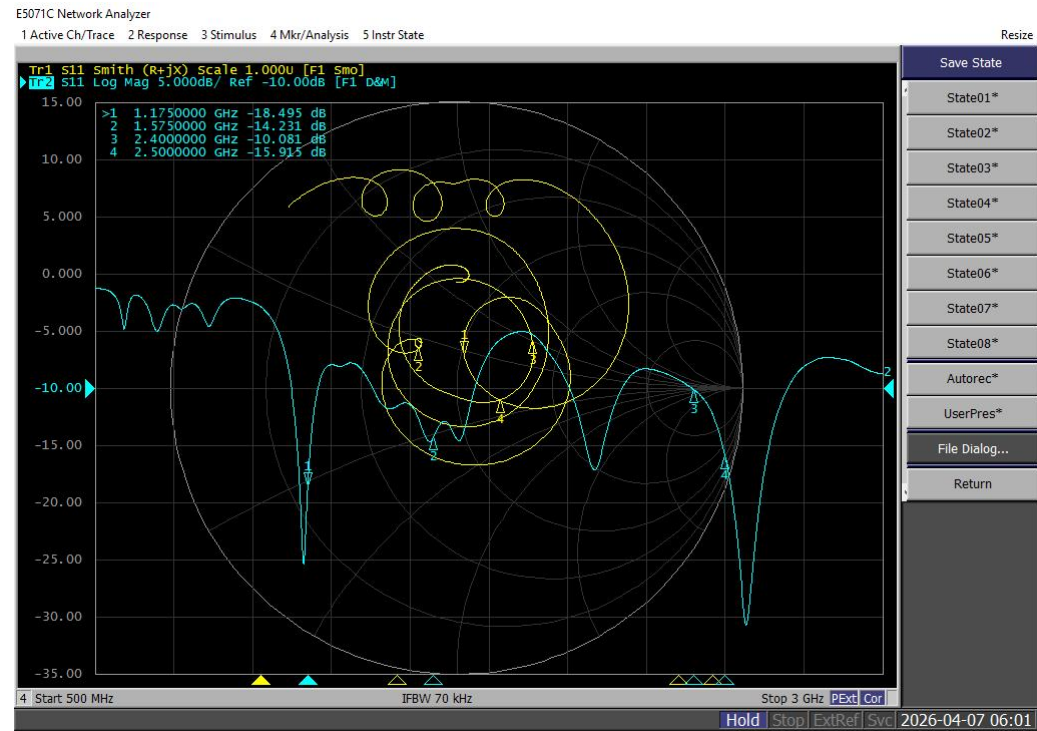


Fig. 2 S11 Parameter- GPS&BT test result

Table 1 shows the emission efficiency and the maximum gain of the antenna at different frequencies changes. The antenna radiation pattern diagram show in Fig.4.

GPS					BT			
频率/M H z	效率/dB	G a i n/dB i	效率/%		频率/M H z	效率/dB	G a i n/dB i	效率/%
1165	-16.05	-11.11	2.48		2400	-10.03	-4.23	9.94
1175	-16.37	-11.79	2.31		2410	-10.11	-4.33	9.76
1185	-16.7	-12.55	2.14		2420	-10.19	-4.44	9.57
					2430	-10.34	-4.61	9.25
1565	-8.23	-4.07	15.03		2440	-10.48	-4.78	8.96
1575	-8.36	-4.3	14.59		2450	-10.65	-4.96	8.61
1585	-8.5	-4.57	14.11		2460	-10.89	-5.19	8.15
1595	-8.65	-4.86	13.63		2470	-11.11	-5.43	7.74
1605	-8.76	-5.04	13.3		2480	-11.31	-5.64	7.39
					2490	-11.53	-5.92	7.03
					2500	-11.71	-6.08	6.75

Table 1Max. Gain and Efficiency Vs. Frequency

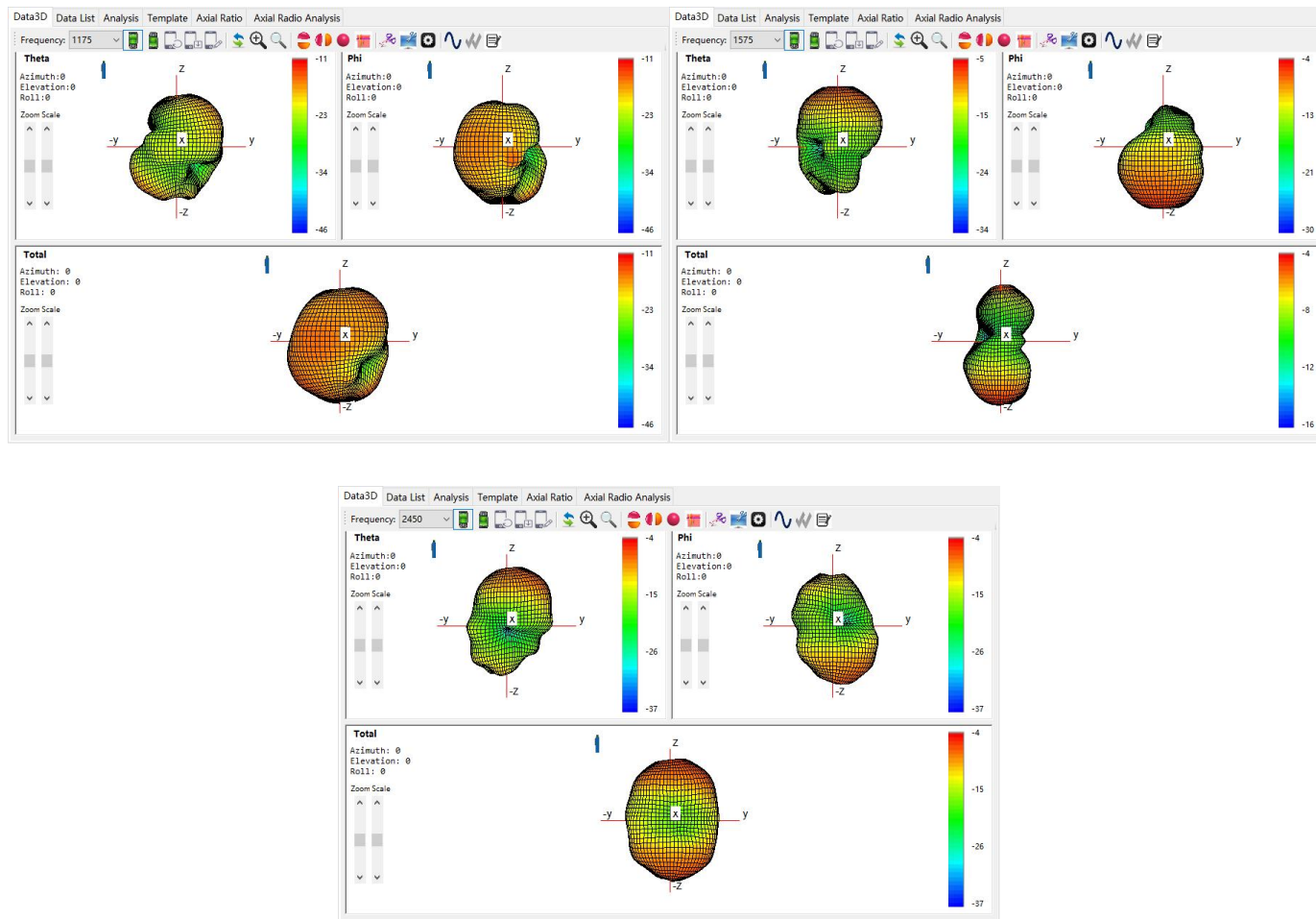


Fig. 4 antenna radiation pattern diagram