
Antenna specifications

Electrical Characteristics Description

Model:	Rocky 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:	Matterhorn
		Manufacturer:	Anhui Huami Information Technology Co., Ltd.
		Frequency Range:	1170 MHz -1180 MHz 1570MHz-1580MHz 2400MHz-2483.5MHz
		Connector Type/ Maximum Gain	GNSS: -3.03dBi BT: -5.55dBi
		Antenna Type/ Pattern:	IFA/Coupling
		Antenna Size	See below pic
		Measurement:	NA

Dimensions

Dimensions Fig:

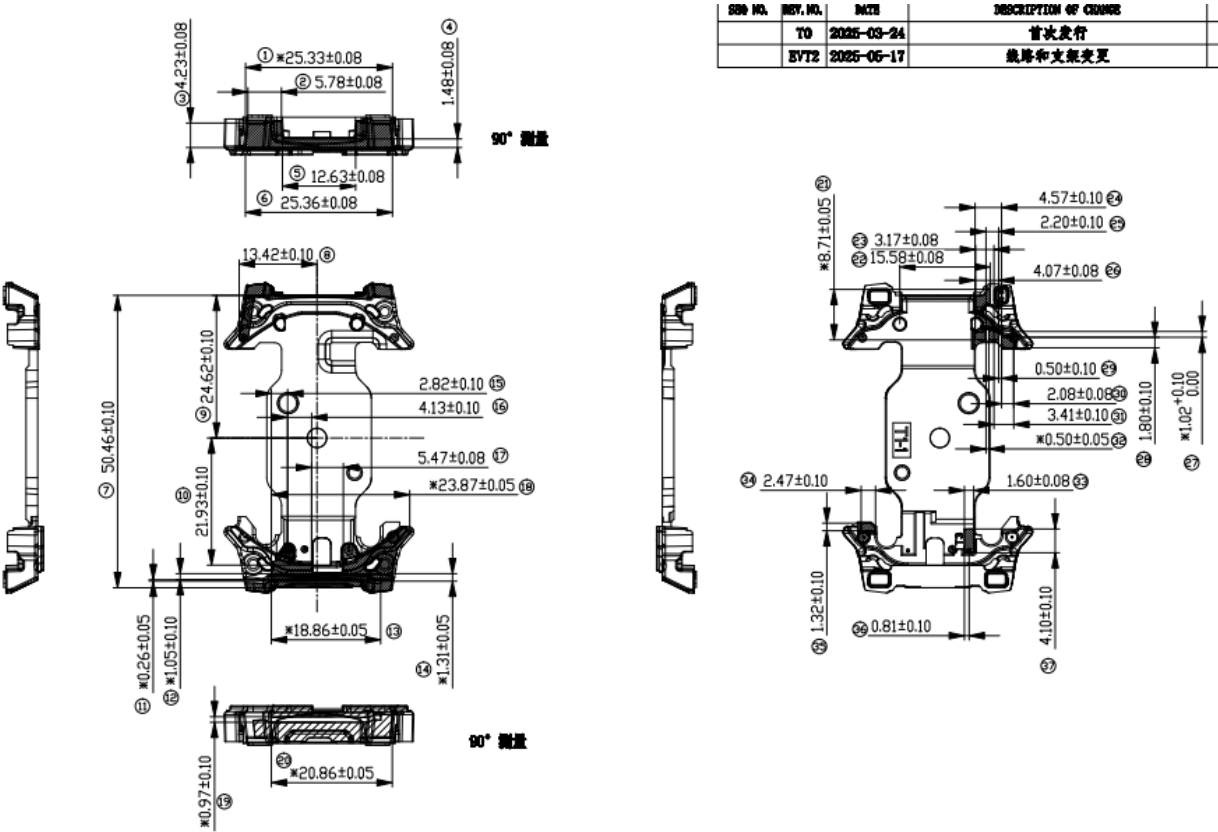


Fig. 1 Antenna Dimensions

Electrical Performance

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

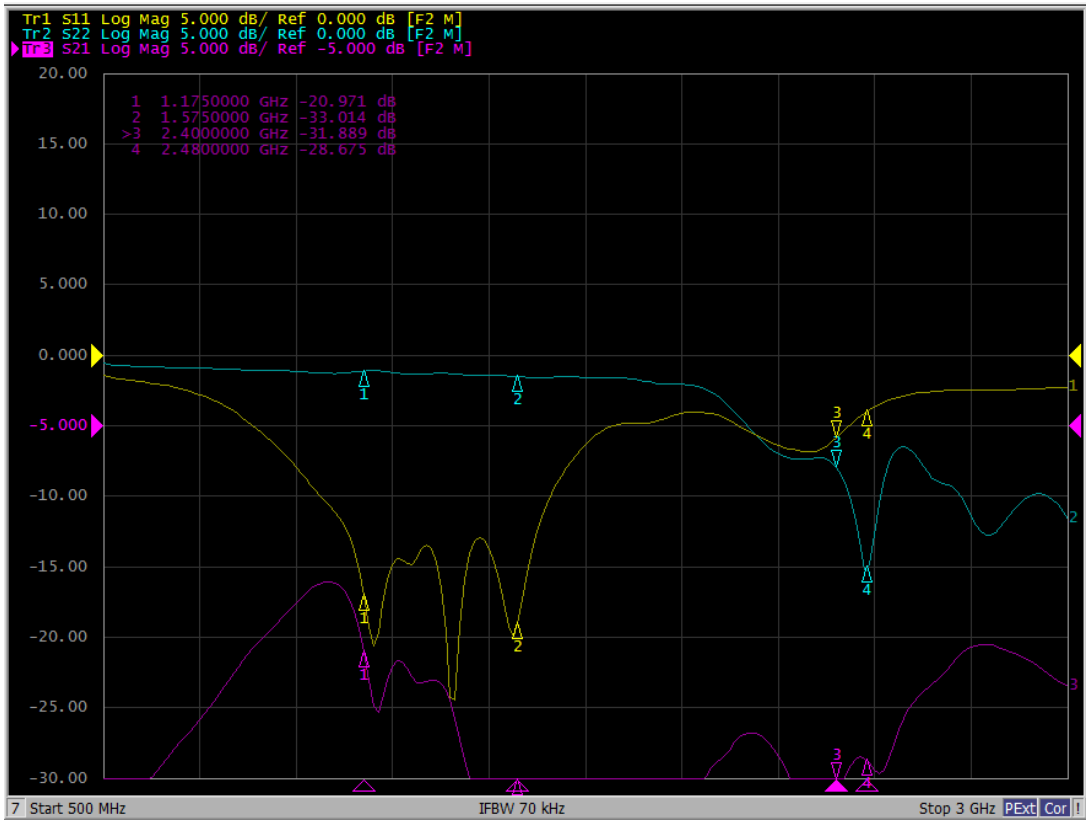


Fig. 2 S11 Parameter- GPS&BT test result

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			
频率\MHz	效率\dB	增益\dB	效率\%
1165	-17.15	-15.13	1.93
1175	-17.42	-15.04	1.81
1185	-17.44	-15.07	1.8
1565	-4.72	-3.04	33.69
1575	-4.69	-3.05	33.97
1585	-4.7	-3.03	33.87

BT			
频率\MHz	效率\dB	增益\dB	效率\%
2400	-7.36	-5.84	18.36
2410	-7.33	-5.78	18.49
2420	-7.34	-5.72	18.45
2430	-7.36	-5.62	18.35
2440	-7.39	-5.61	18.25
2450	-7.46	-5.55	17.96
2460	-7.62	-5.69	17.28
2470	-7.89	-5.85	16.26
2480	-8.24	-6.11	14.98
2490	-8.79	-6.62	13.2
2500	-9.49	-7.31	11.25

Table 1Max. Gain and Efficiency Vs. Frequency

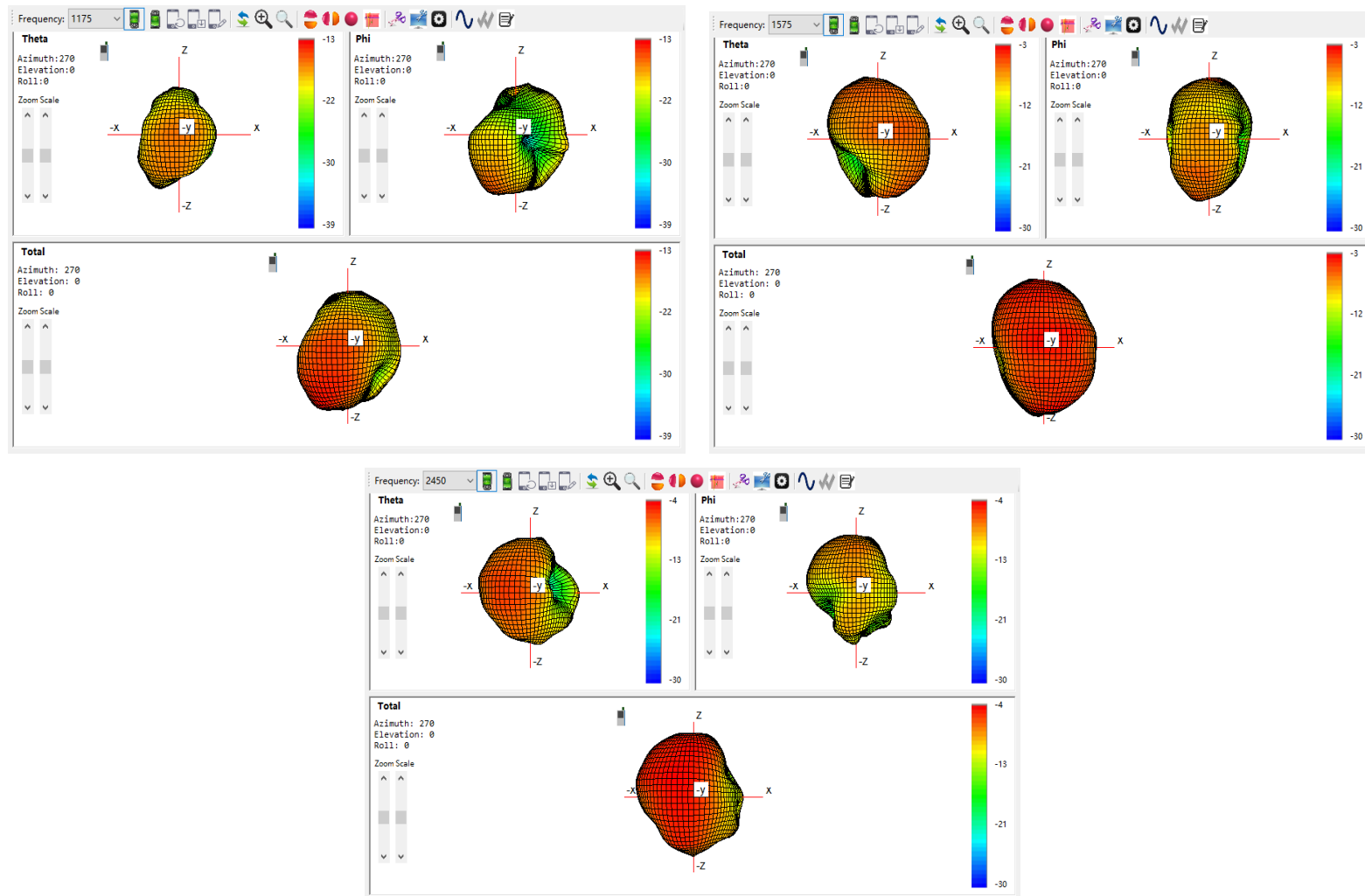


Fig. 4 antenna radiation pattern diagram