

Antenna specifications

Electrical Characteristics Description

Model:	Cheetah 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:	Cheetah
		Manufacturer:	Anhui Huami Information Technology Co., Ltd. 7/F, Building B2, Huami Global Innovation Center, No. 900, Wangjiang West Road, High-tech Zone, Hefei City, China (Anhui) Pilot Free Trade Zone
		Frequency Range:	1170MHz-1180MHz 1570MHz-1580MHz 2400MHz-2483.5MHz
		Connector Type/ Maximum Gain	-2.99dBi
		Antenna Type/ Pattern:	Metal Case
		Antenna Size	NA
		Measurement:	NA

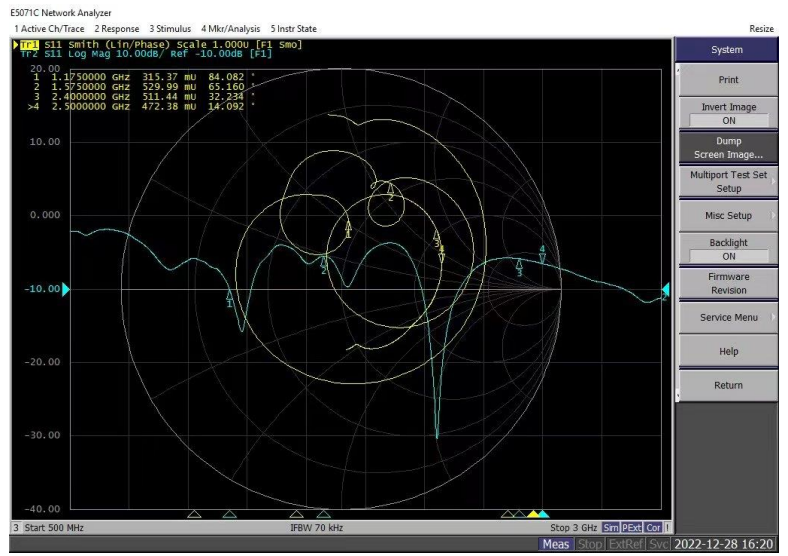


Fig. 2 S11 Parameter-GPS L1/L5 and BT test result

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.

L5			
Freq (MHz)	Eff_dB	Eff (%)	Gain
1155	-13.43	4.54%	-7.76
1165	-13.45	4.51%	-7.49
1175	-13.52	4.44%	-7.57
1185	-13.52	4.45%	-7.47
1195	-13.53	4.43%	-7.49
1205	-13.41	4.56%	-7.35
L1			
1535	-11.93	6.41%	-5.26
1545	-11.93	6.42%	-5.02
1555	-12.01	6.29%	-5.22
1565	-12.11	6.15%	-5.32
1575	-12.19	6.04%	-5.33
1585	-12.23	5.99%	-5.55
1595	-12.1	6.16%	-5.5
1605	-11.75	6.68%	-5.25
1615	-11.63	6.88%	-5.42
1625	-11.38	7.28%	-5.34
BT			
2400	-8.23	15.03%	-3.11
2410	-8.34	14.65%	-3.15
2420	-8.42	14.37%	-3.24
2430	-8.47	14.21%	-3.22
2440	-8.55	13.98%	-3.2
2450	-8.67	13.57%	-3.21
2460	-8.67	13.57%	-3.2
2470	-8.62	13.73%	-3.09
2480	-8.53	14.02%	-2.99
2490	-8.52	14.06%	-3.05
2500	-8.67	13.58%	-3.11

Table 1Max. Gain and Efficiency Vs. Frequency

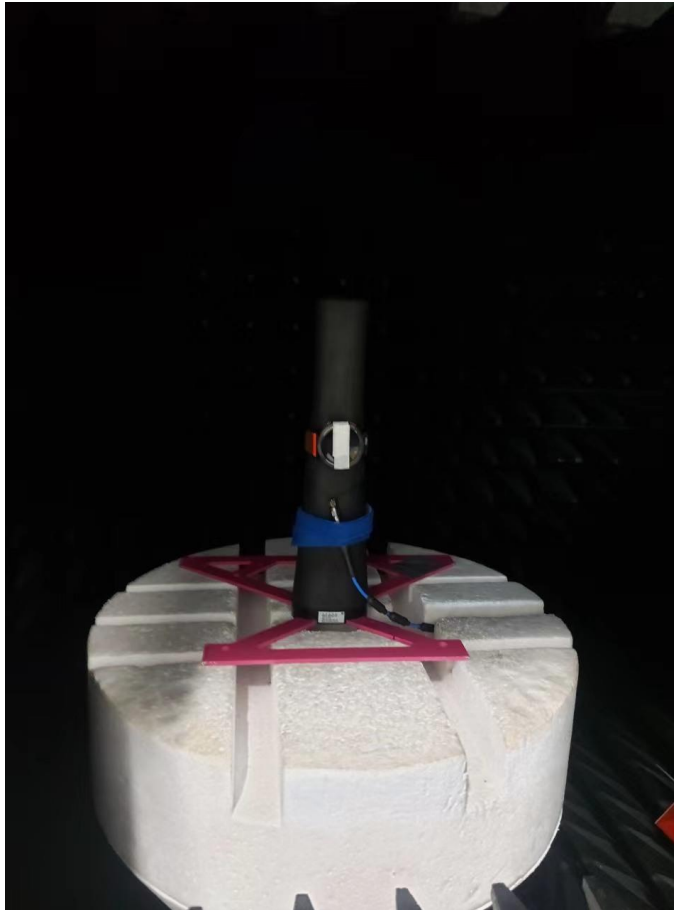
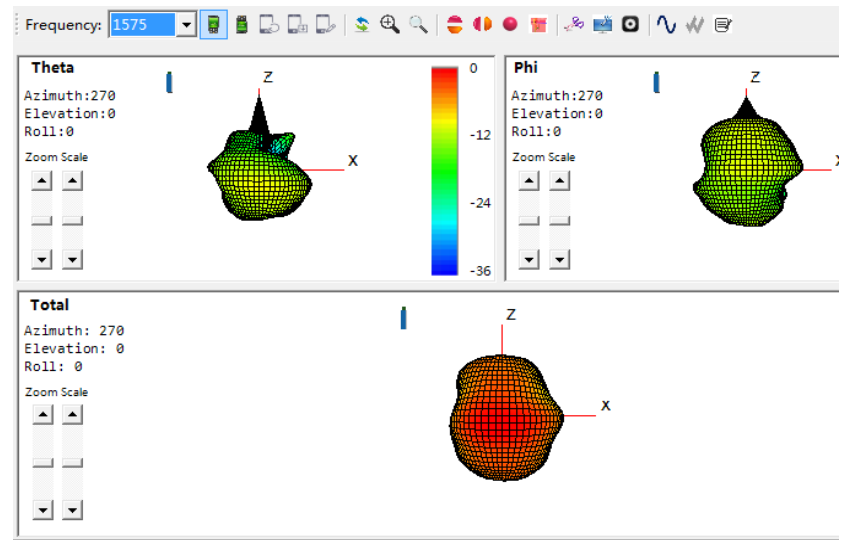
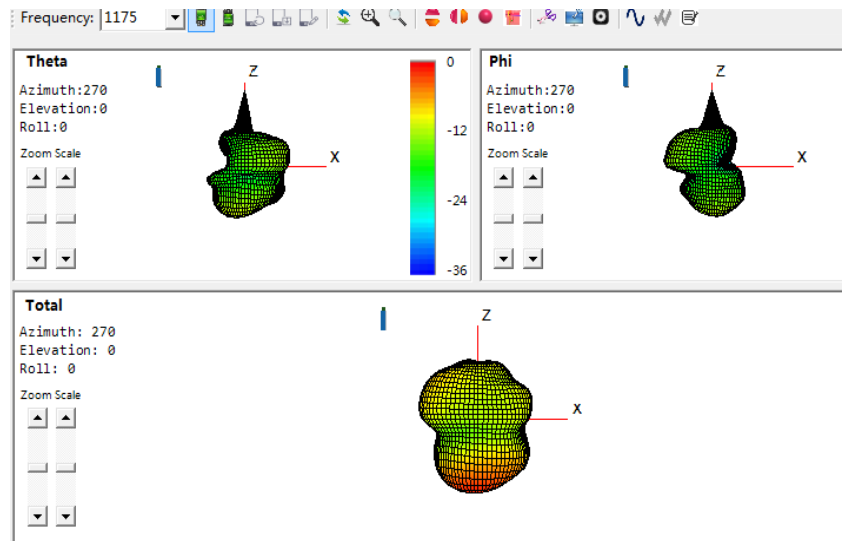


Fig. 3 Operating diagram



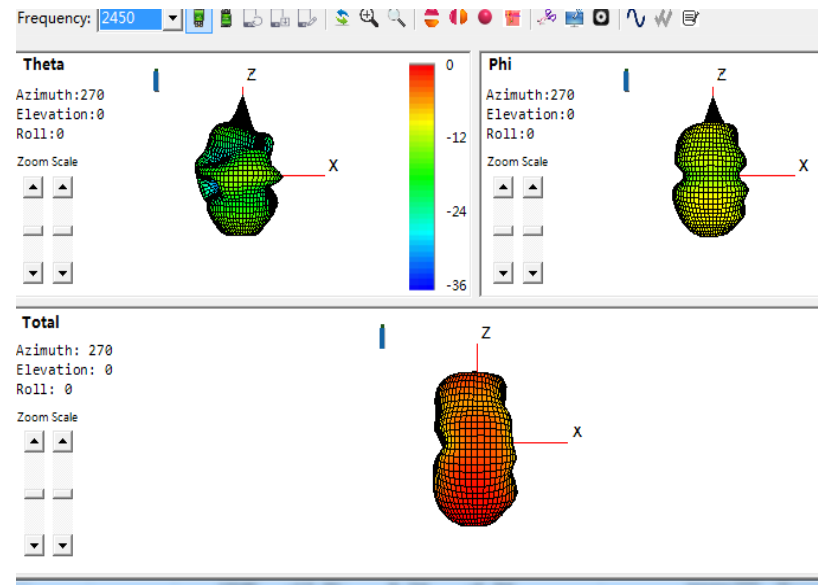


Fig. 4 antenna radiation pattern diagram