
Antenna specifications

Electrical Characteristics Description

Model:	Swift 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:	Swift
		Manufacturer:	Anhui Huami Information Technology Co., Ltd.
		Frequency Range:	1170 MHz -1180 MHz 1570MHz-1580MHz 2400MHz-2483.5MHz
		Connector Type/ Maximum Gain	-3.61dBi
		Antenna Type/ Pattern:	Metal Case
		Antenna Size	NA
		Measurement:	NA

Dimensions

Dimensions Fig:

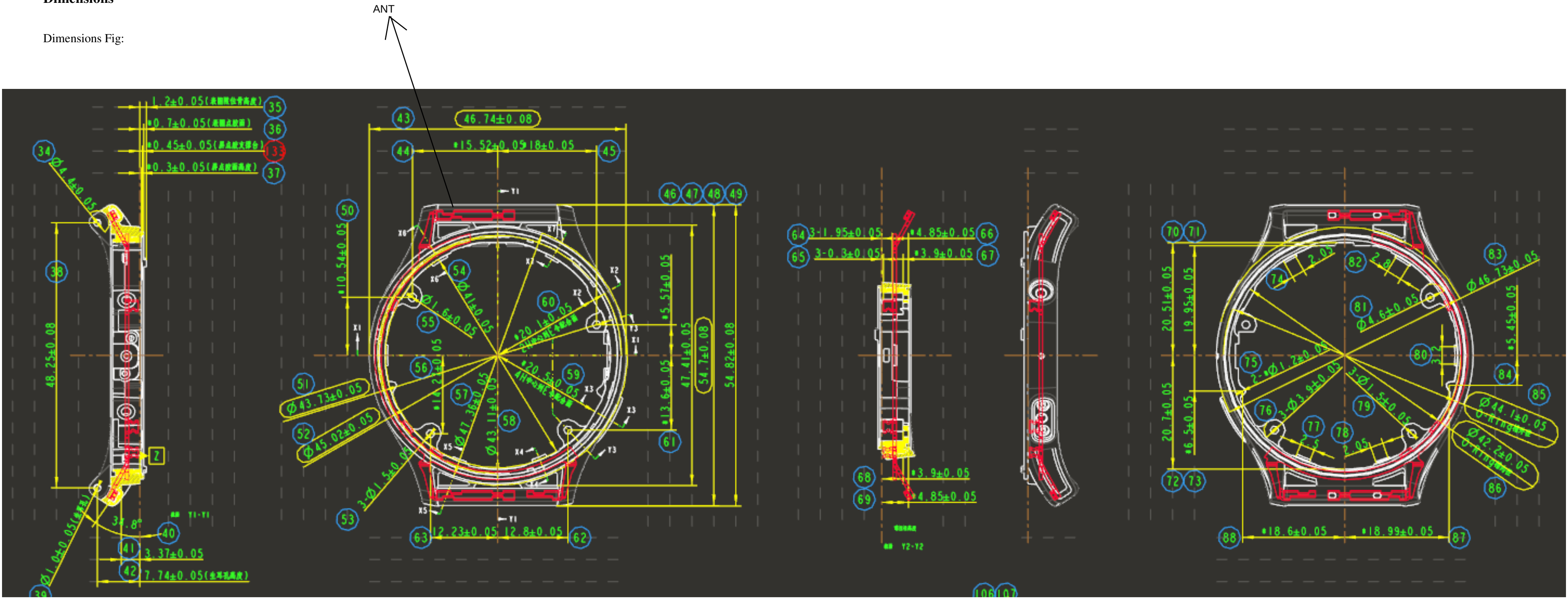
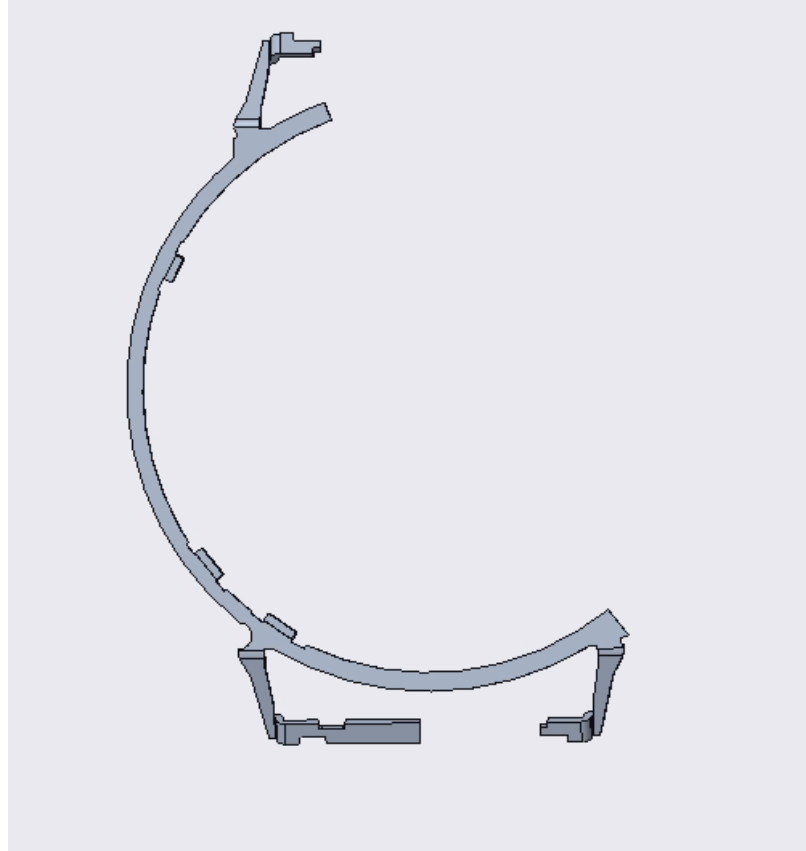


Fig. 1 Antenna Dimensions

Electrical Performance

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



Antenna diagram

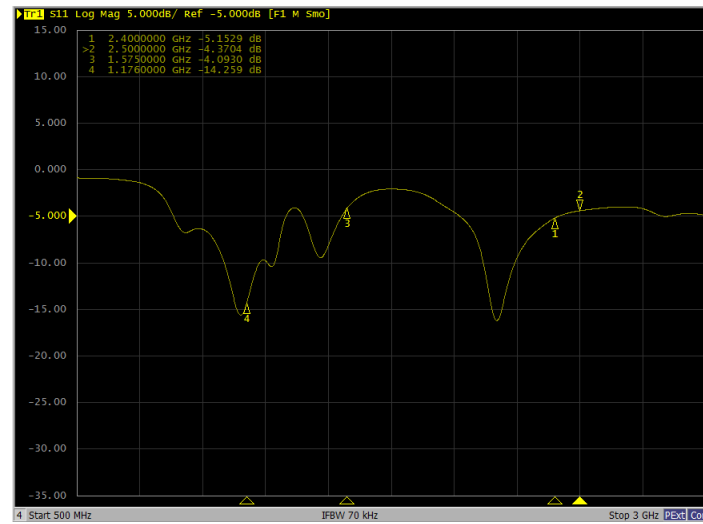


Fig. 2 S11 Parameter-GPS L1/L5 and BT test result

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.

Fre.(MHz)	Eff_dB	Eff_ %	Gain
1155	-14.16	3.84	-10.97
1165	-13.82	4.15	-10.56
1175	-13.61	4.36	-10.26
1185	-13.38	4.59	-9.85
1195	-13.23	4.75	-9.83
1205	-13.07	4.93	-9.84
L5			
1535	-11.49	7.1	-6.17
1545	-11.86	6.52	-6.59
1555	-12.25	5.96	-7.28
1565	-12.69	5.39	-7.76
1575	-13.16	4.84	-8.51
1585	-13.65	4.32	-9.26
1595	-14.01	3.97	-9.7
1605	-14.23	3.78	-10.17
1615	-14.71	3.38	-10.92
L1			
2400	-8.97	12.69	-3.61
2410	-9.07	12.38	-3.72
2420	-9.16	12.12	-3.78
2430	-9.24	11.9	-3.82
2440	-9.35	11.62	-3.88
2450	-9.54	11.12	-4.02
2460	-9.57	11.04	-4.12
2470	-9.57	11.05	-4.1
2480	-9.55	11.1	-4.15
2490	-9.59	11	-4.22
2500	-9.78	10.52	-4.47
BT			

Table 1Max. Gain and Efficiency Vs. Frequency

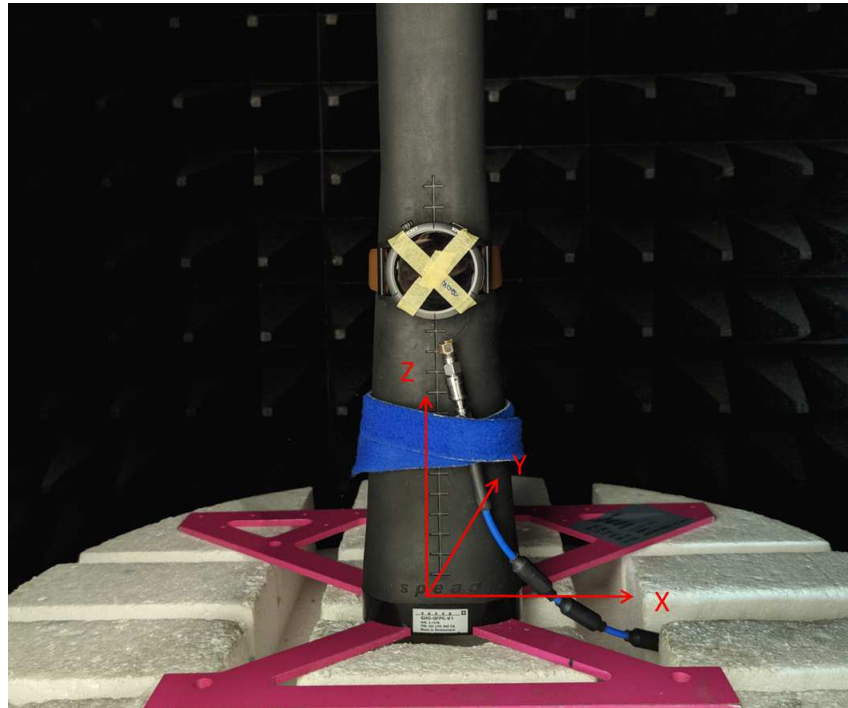
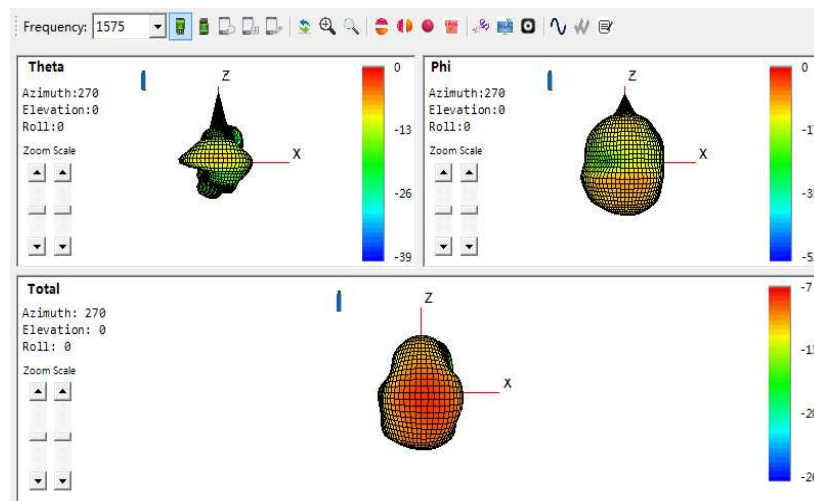
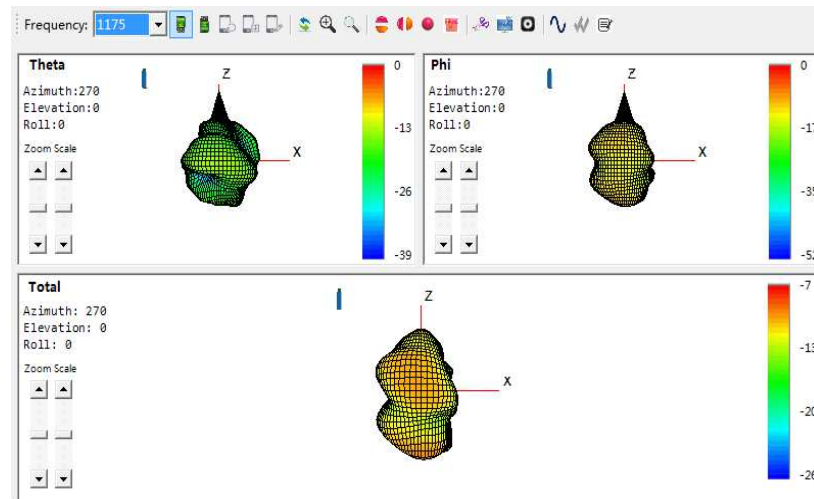


Fig. 3 Operating diagram



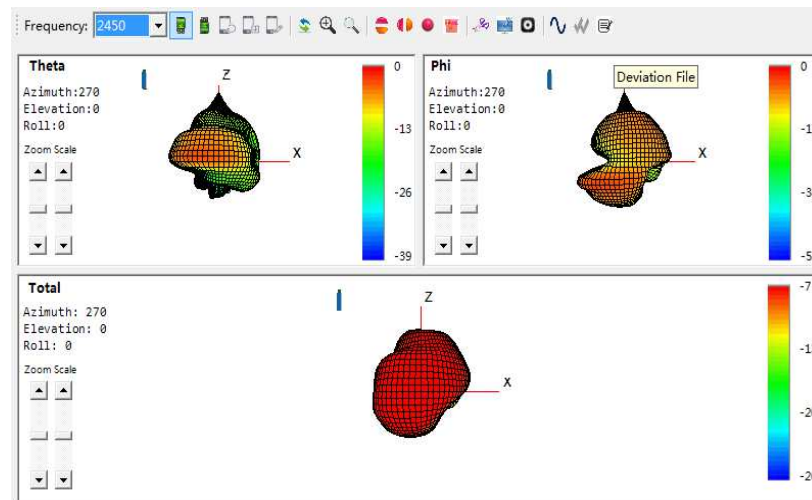


Fig. 4 antenna radiation pattern diagram