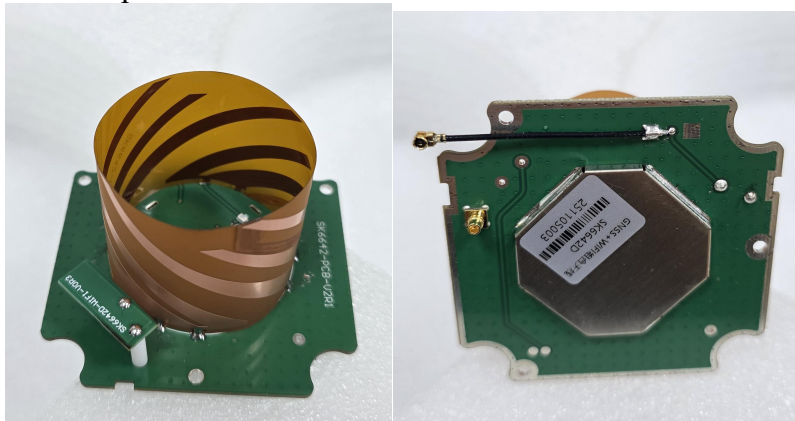


Antenna Specification

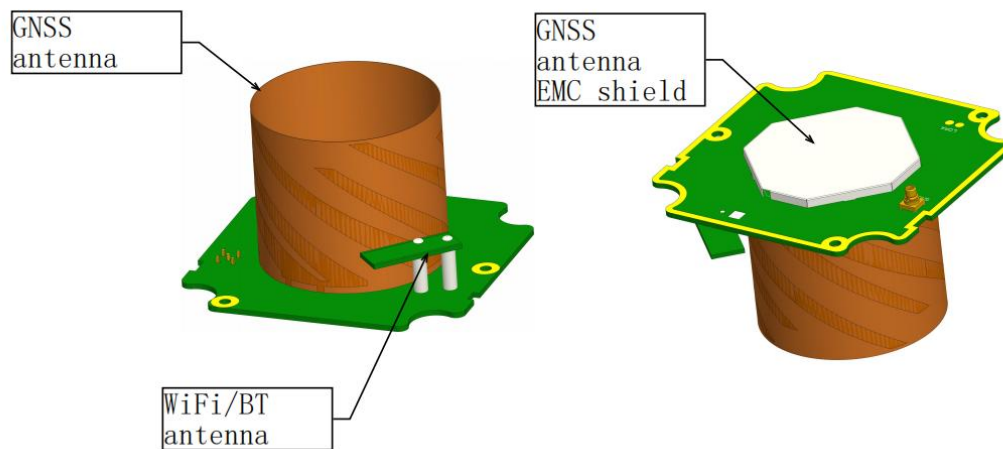
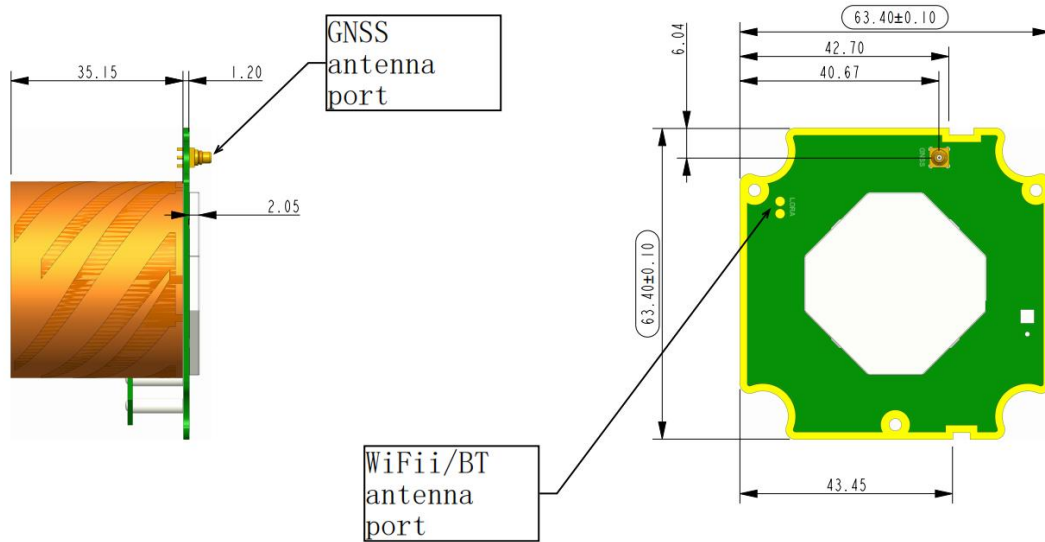
1.GNSS Antenna Specifications:

Passive antenna parameter			
Frequency	GPS L1/L2/L5	BDS B1/B2a/B2b	GALILEO E1/E5a/E5b
Max gain	L1 $\geq$ 2.0dBi	B1 $\geq$ 2.0dBi	E1 $\geq$ 2.0dBi
	L2 $\geq$ - 1.0dBi	B2a $\geq$ 1.5dBi	E5a $\geq$ 1.5dBi
	L5 $\geq$ 1.5dBi	B2b $\geq$ 0dBi	E5b $\geq$ 0dBi
Polarization	RHCP		
Coverage angle	360°		
Output impedance	50a		
Output VSWR	$\leq$ 2.0		
Axis ratio	$\leq$ 3dB		
LNA parameter			
Active gain	35 $\pm$ 2dB		
Noise figure	$\leq$ 1.5dB		
Input VSWR	$\leq$ 2.0		
Output VSWR	$\leq$ 2.0		
Supply Voltage	3.3~5.5V		
Working Current	$\leq$ 46mA		

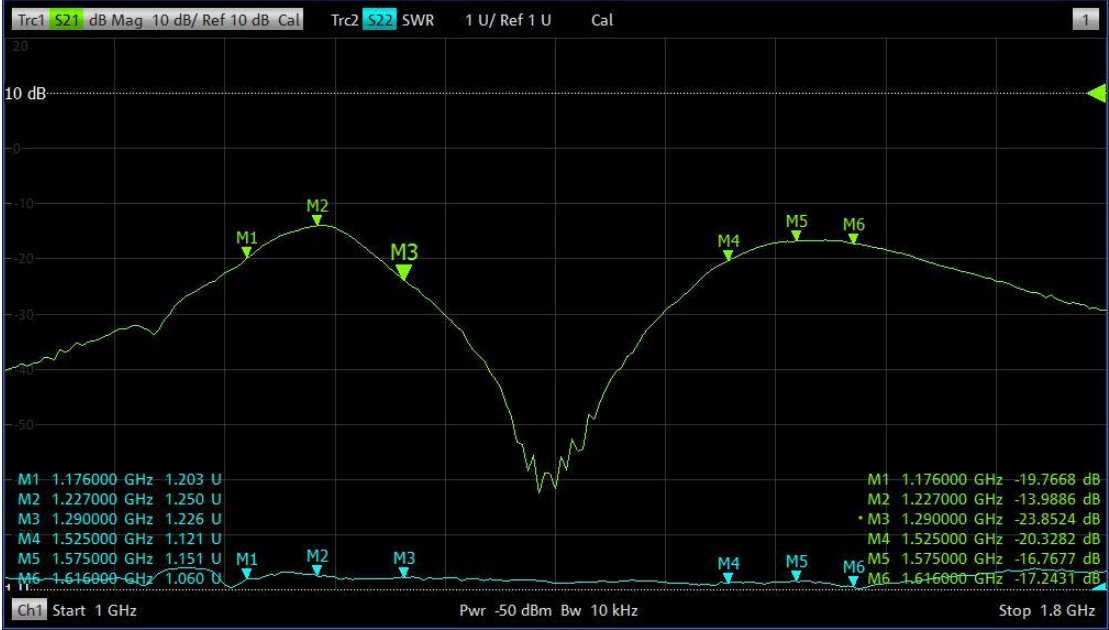
Antenna picture:



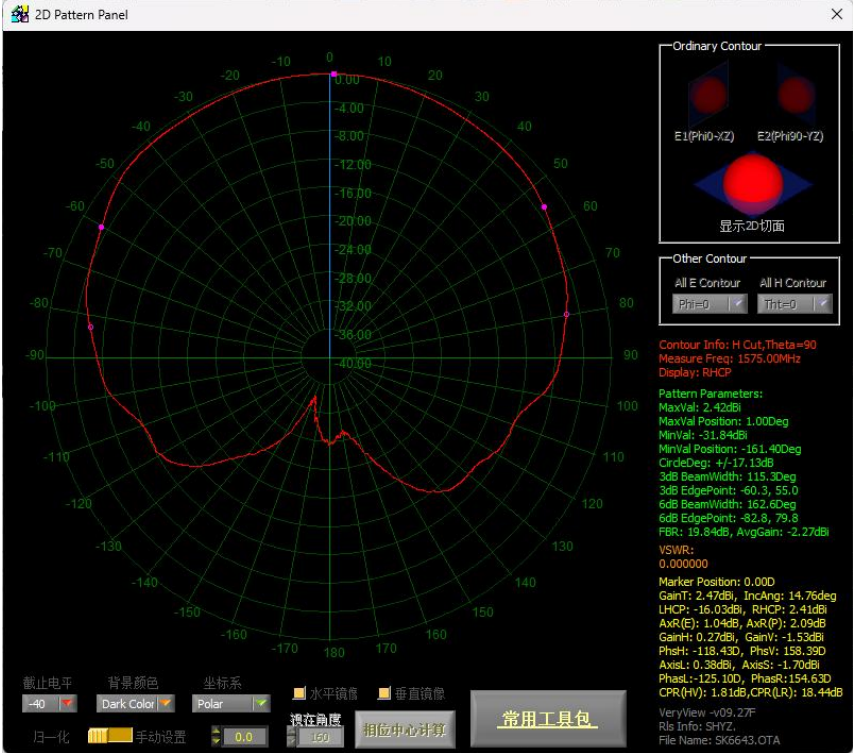
Antenna size:



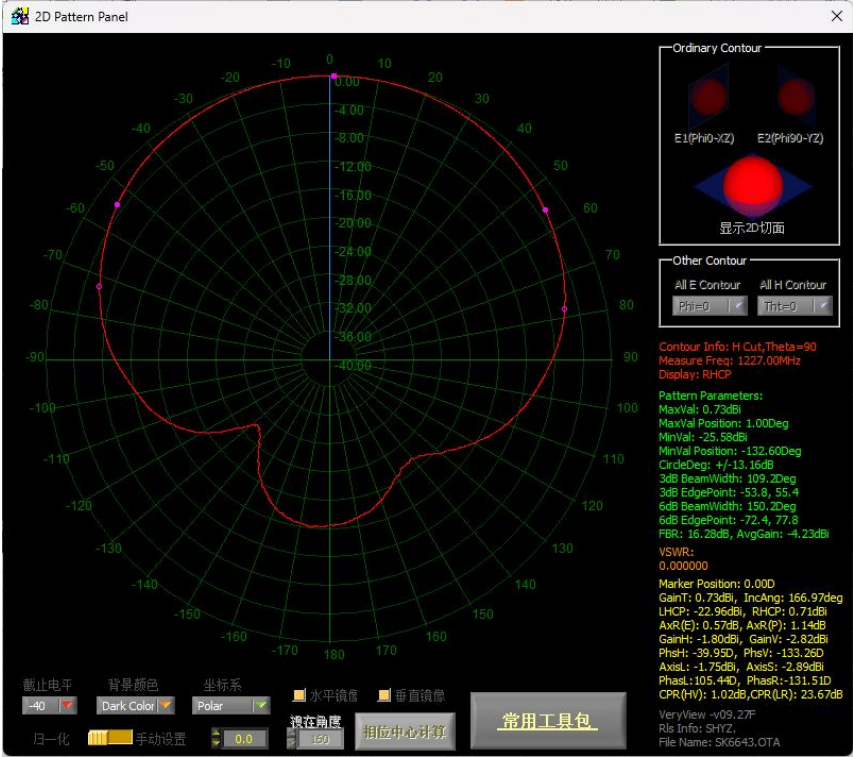
GNSS band VSWR



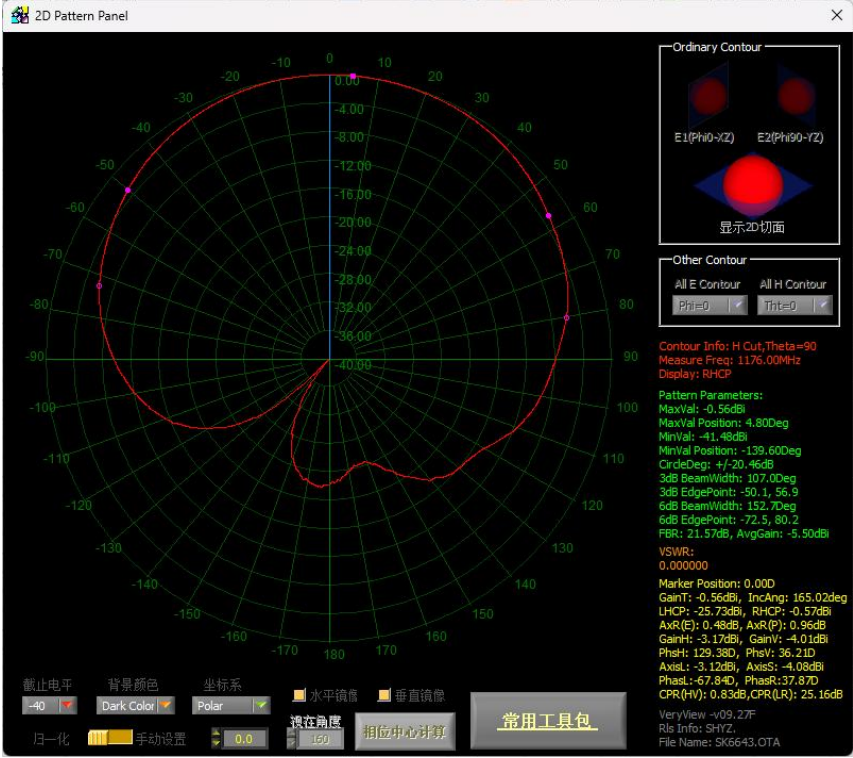
GNSS band 1575MHz



GNSS band 1227MHz



GNSS band 1176MHz



2. WiFi/Bluetooth Antenna Specification

Operating Frequency	2400-2500 MHz
Gain	3 dBi peak
Impedance	50 Ω (Ohms)
Power Capacity	10 W
VSWR (Voltage Standing Wave Ratio)	< 1.5
Polarization	Linear Polarization
Cable Type	RG1.13

Wi-Fi/Bluetooth band SRW



Wifi/BT antenna gain

Frequency MHz	Efficiency dB	Gain dBi	Efficiency
2350	-3.32	1.67	46.55
2360	-2.86	2.17	51.76
2370	-2.51	2.58	56.07
2380	-2.38	2.79	57.84
2390	-2.29	3.11	59.06
2400	-2.38	2.78	57.81
2410	-2.66	2.28	54.2
2420	-3.12	1.55	48.71
2430	-3.84	1.45	41.3
2440	-4.27	1.37	37.42
2450	-4.51	1.43	35.38

2460	-4.55	1.45	35.05
2470	-4.43	1.45	36.03
2480	-4.41	1.28	36.19
2490	-4.56	0.82	34.99
2500	-4.62	0.52	34.55

Radiation pattern

