

# Shenzhen DBT Telecommunication Technology CO.,LTD

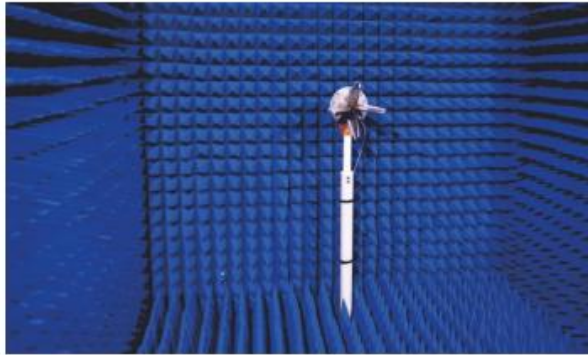
## Antenna specifications

Customer : EIOT

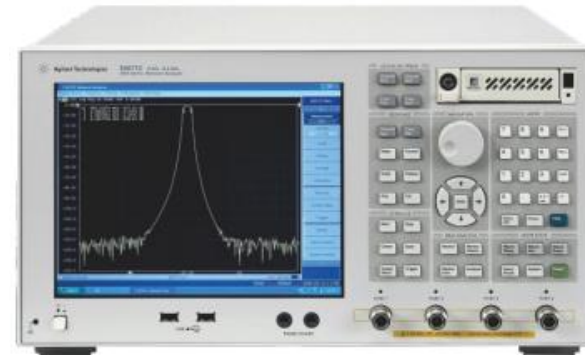
Project : S08

Antenna standard: GPS/BT

# 1. Test equipment



OTA-800  
Model : ETS



5071C  
Model : Agilent



8960  
Model : Agilent



CMW500  
Model : ROHDE&SCHWAR

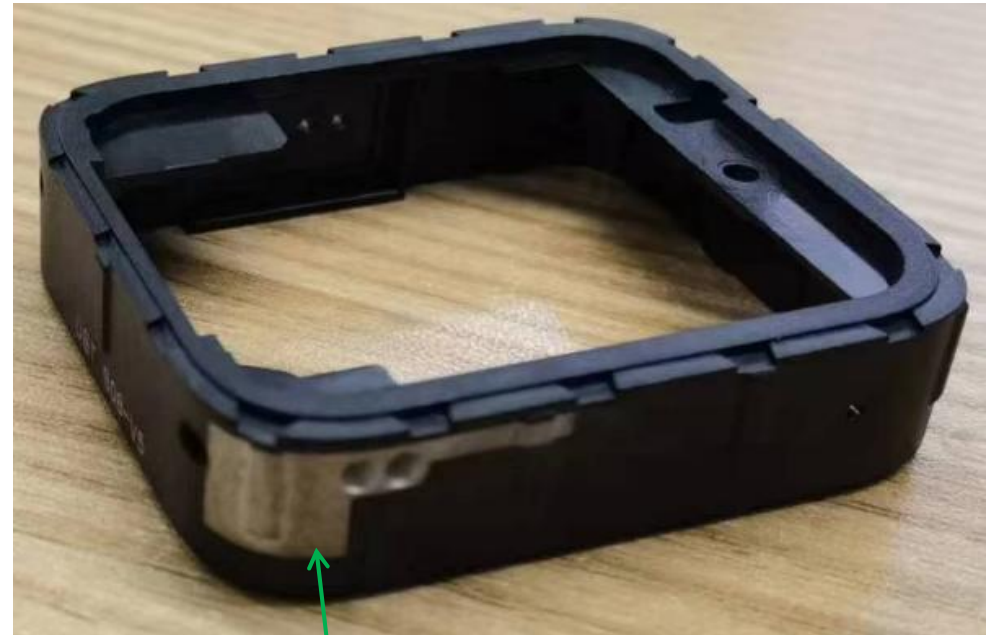
## 2.Electrical Performance Index

Electrical Parameter	
Frequency Range (MHz)	2400~2500 1575.42
VSWR	≤2.0
Input Impedance( $\Omega$ )	50
Gain(dBi)	2.4G=1.35 ; GPS=-1.46
Polarization( $^{\circ}$ )	vertical
Max power(W)	10
Antenna Type	PIFA
Working Temperature( $^{\circ}\text{C}$ )	-40~+80

### 3. Picture and size of antenna



GPS\_antenna  
Size: 22.5\*15.9\*6.65mm

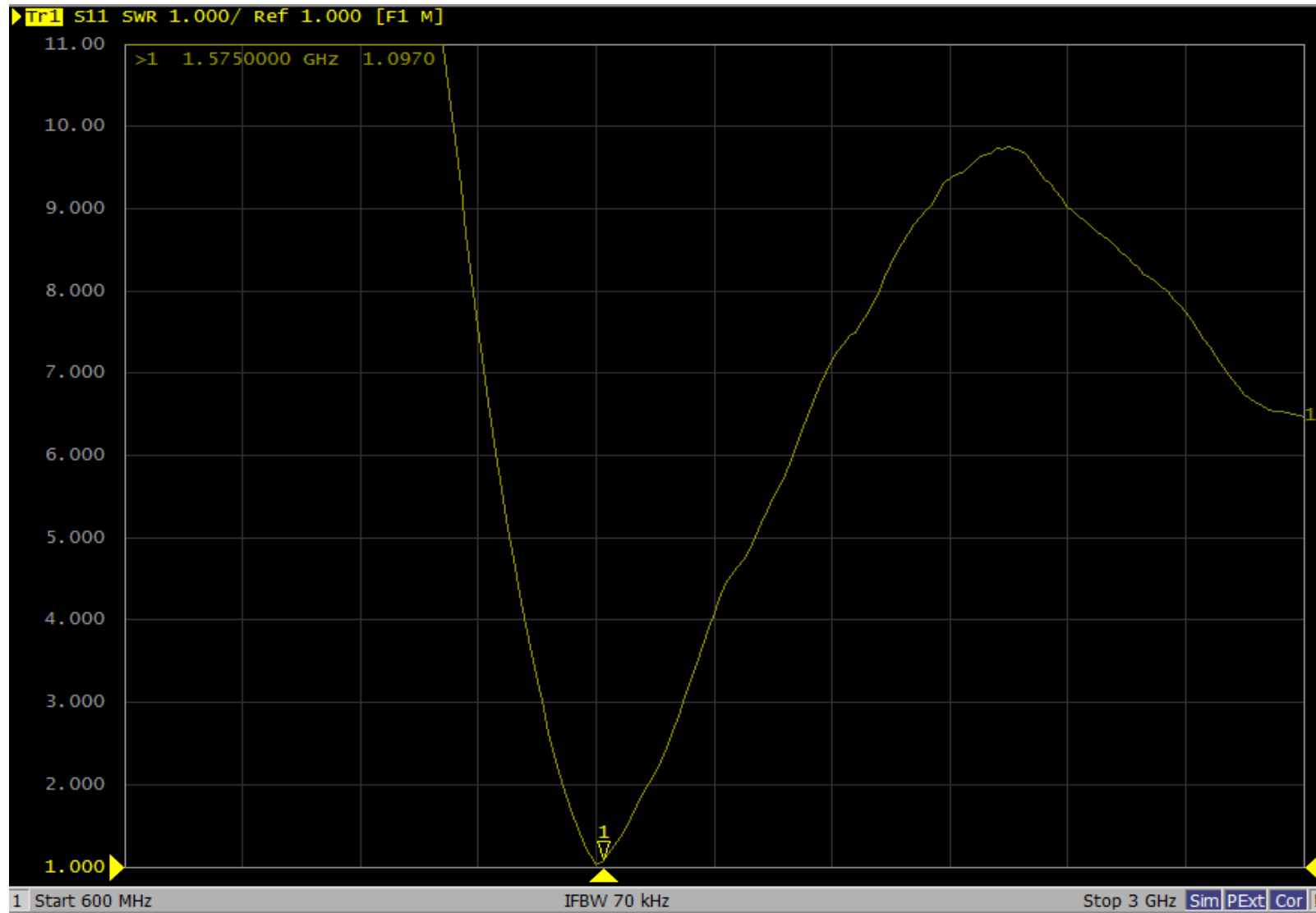


BT\_antenna  
Size: 17.65\*5.10\*6.55mm

Appearance size: 45.30\*40.40\*11.85mm

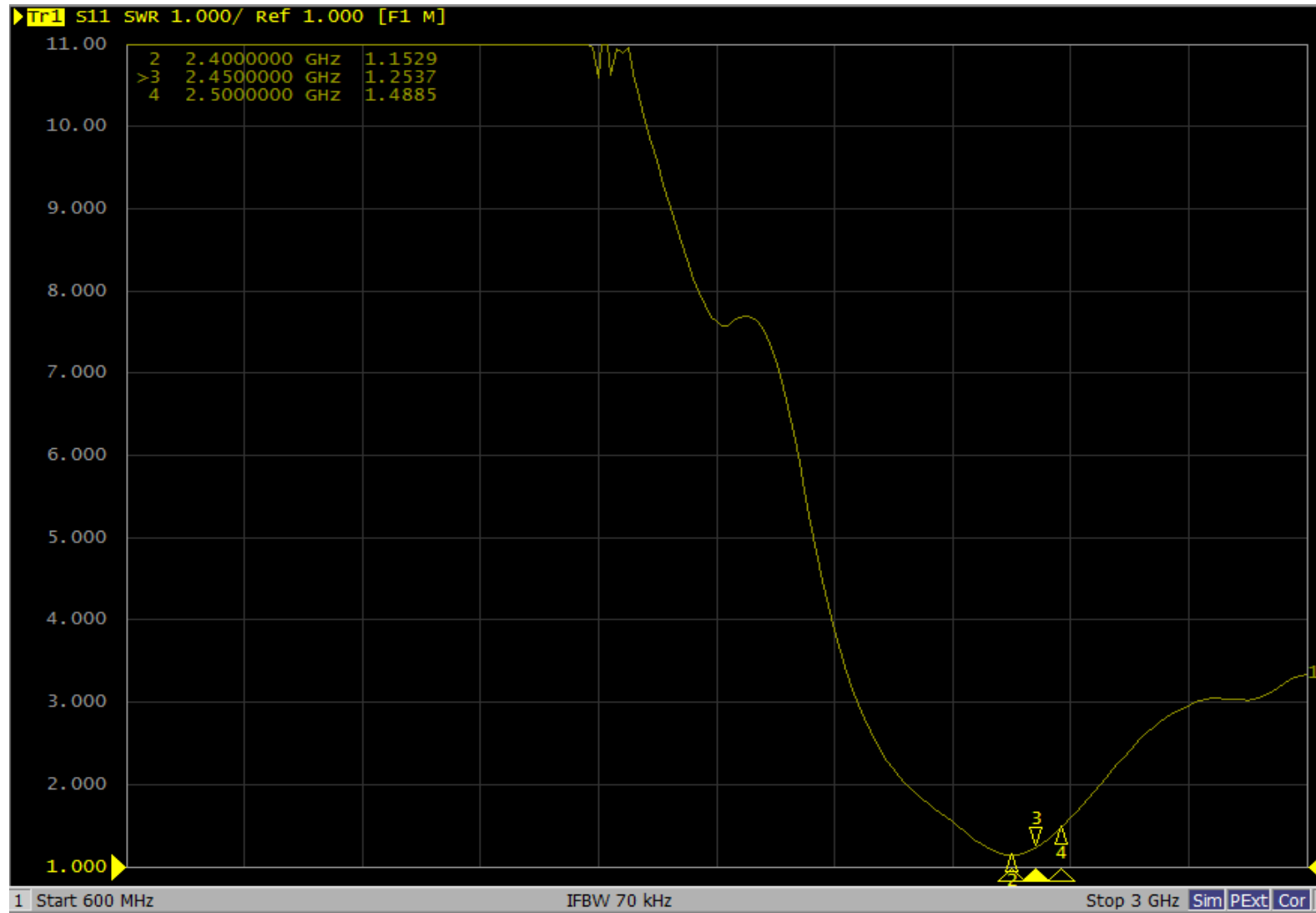
# 4. Antenna S11 data

## GPS



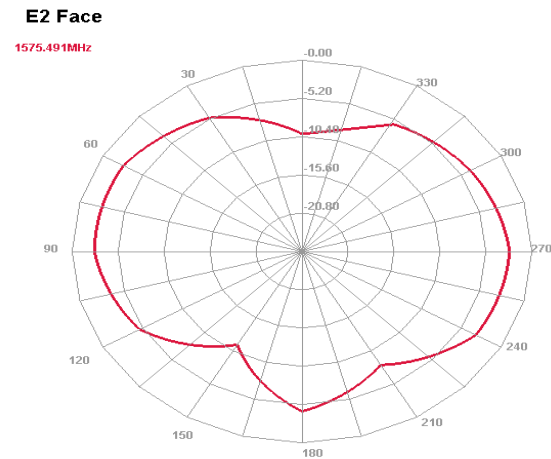
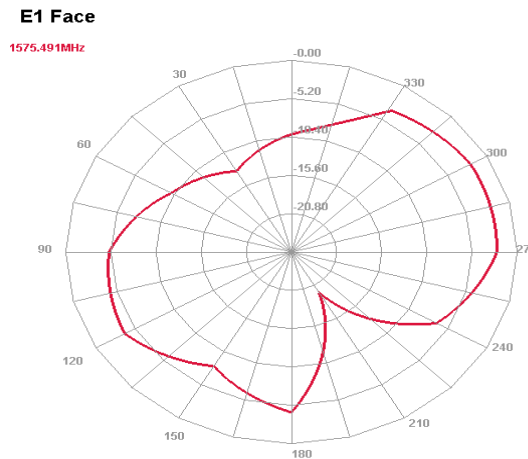
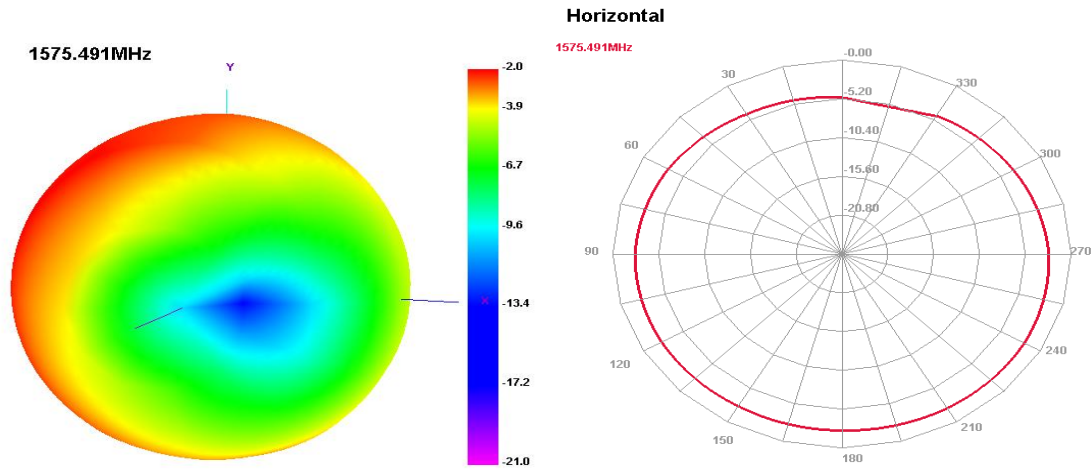
# 5. Antenna S11 data

BT



# 6. Antenna gain/Efficiency/Radiation pattern

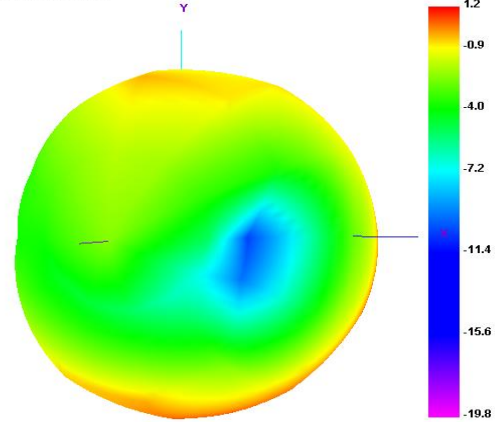
GPS		
Freq (MHz)	Effi (%)	Gain (dBi)
1561.26	33.65	-2.14
1566.01	33.36	-2.23
1570.75	33.67	-2.23
1575.49	35.17	-1.97
1580.23	36.07	-1.82
1584.98	38.59	-1.49
1589.72	38.47	-1.46
1594.46	35.82	-1.77
1599.21	37.38	-1.59
1603.95	37.73	-1.55



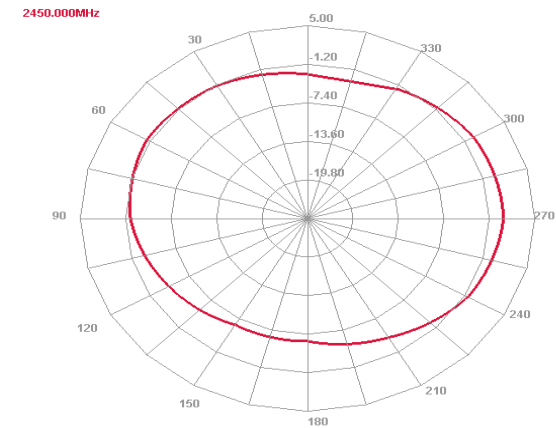
# 7. Antenna gain/Efficiency/Radiation pattern

BT		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	54.36	1.02
2410	55	0.98
2420	56.54	1.02
2430	57.64	1.35
2440	55.59	1.28
2450	56.55	1.23
2460	49.88	0.5
2470	55.35	0.76
2480	55.04	0.44
2490	58.68	0.67
2500	56.07	0.24

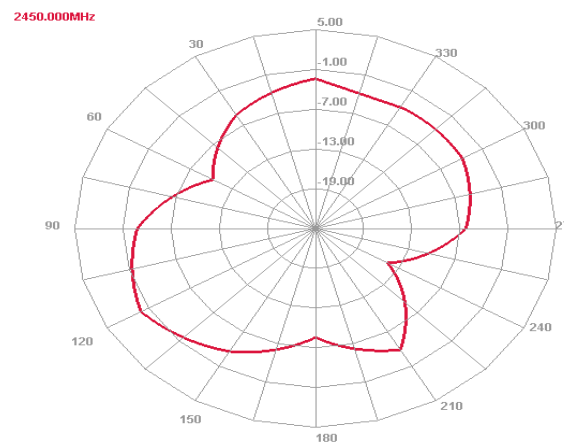
2450.000MHz



Horizontal



E1 Face



E2 Face

