



Antenna Test Report



Equipment: water leakage sensor

Model Name: E2202

Company: Haysonic IoT Technology Co., Ltd.

**Address: Xingtai Industrial Park, Economic Development
Zone, Changtai County, Zhangzhou City, Fujian**

Province, China

Issue Date: 2023.01.06

1、 Antenna Spec

1.1 Antenna

Parameter	Value
Frequency Range	2.4 ~ 2.5 GHz
Antenna Peak Gain	3.71 dBi
Antenna Type	PCB IFA Antenna

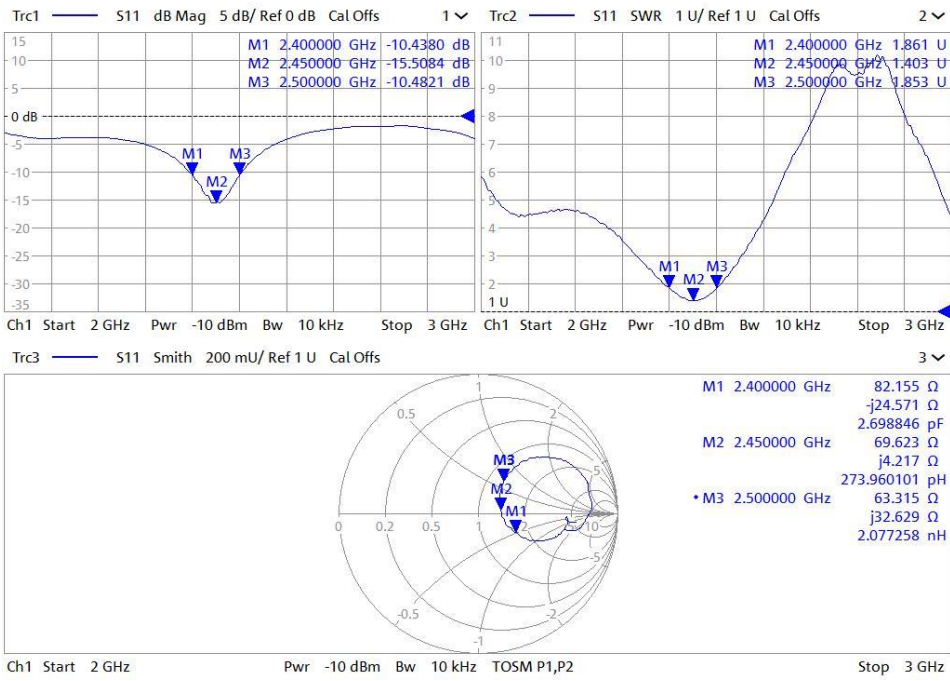
2、 Test Result

2.1 Antenna Passive Test

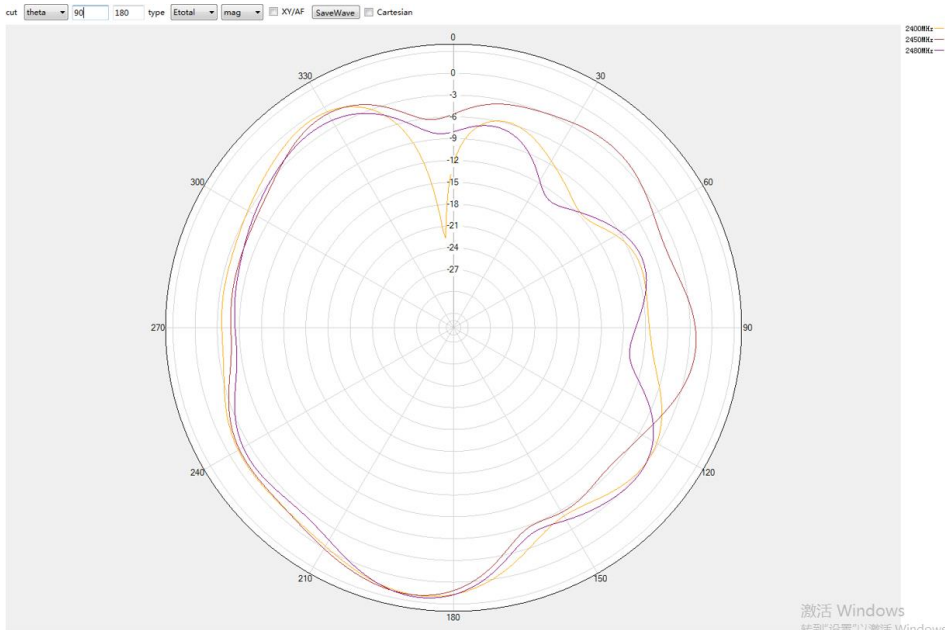
2.1.1 Gain

Frequency (MHz)	Gain (dBi)	Efficiency (dB)
2400	3.08	-2.66
2410	3.71	-2.31
2420	3.65	-2.39
2430	3.41	-2.59
2440	3.46	-2.49
2450	3.51	-2.56
2460	3.65	-2.61
2470	3.38	-2.70
2480	3.58	-2.74
2490	3.36	-2.66
2500	3.47	-2.78
MIN	3.08	-2.78
MAX	3.71	-2.31
AVG	3.48	-2.59

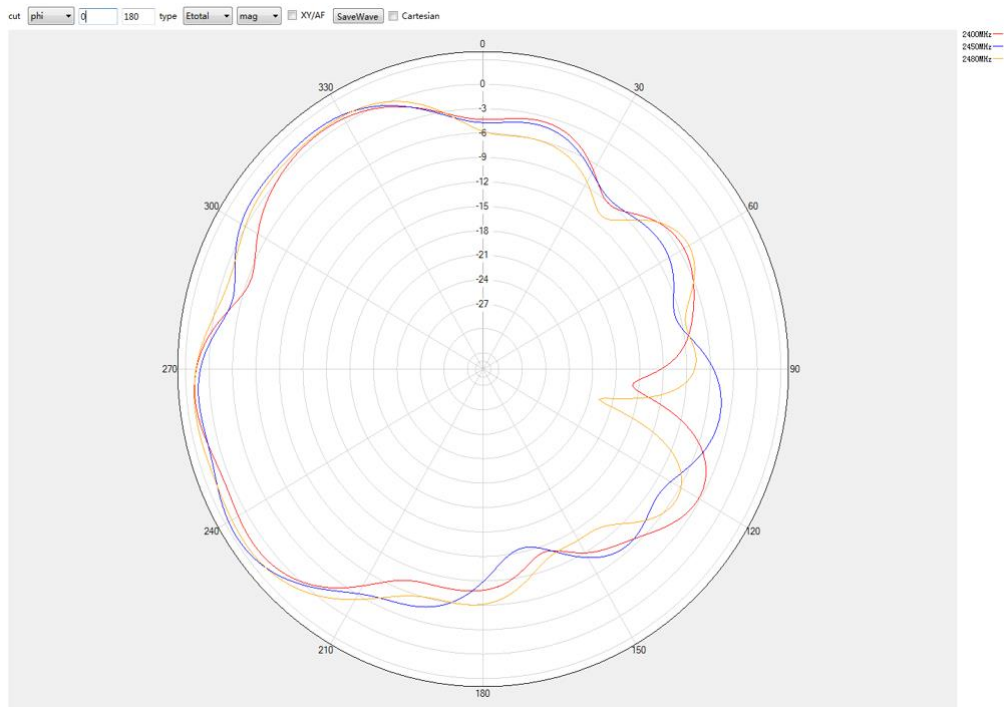
2.1.2 Smith Chart/S11/VSWR



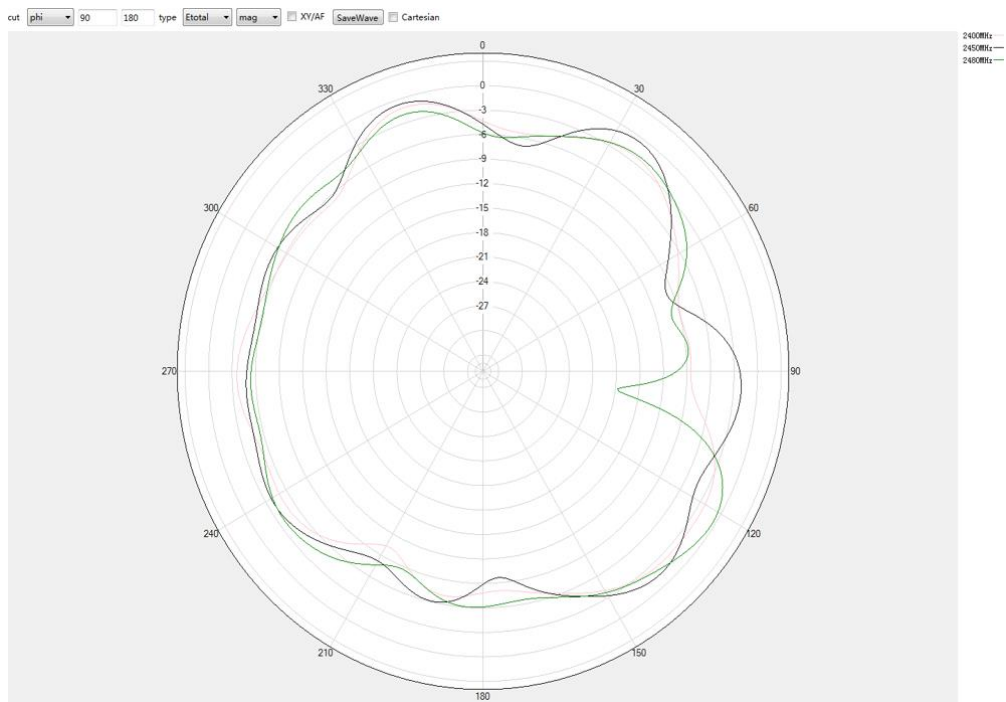
2.1.3 2D Radiation Pattern



$\theta = 90^\circ$



$\phi = 0^\circ$



$\phi = 90^\circ$

2.1.4 3D Radiation Pattern

