上海增信电子有限公司
Signal Plus Technology Co., Ltd.

Antenna Test Report

(FJ1600)

Tel:021-54266190 Fax:021-54266191 Web:www.zxsignal.com

Revision History

Revision	Note	Date
V1	New Issue	2022.07.25

Data Preview

BT :

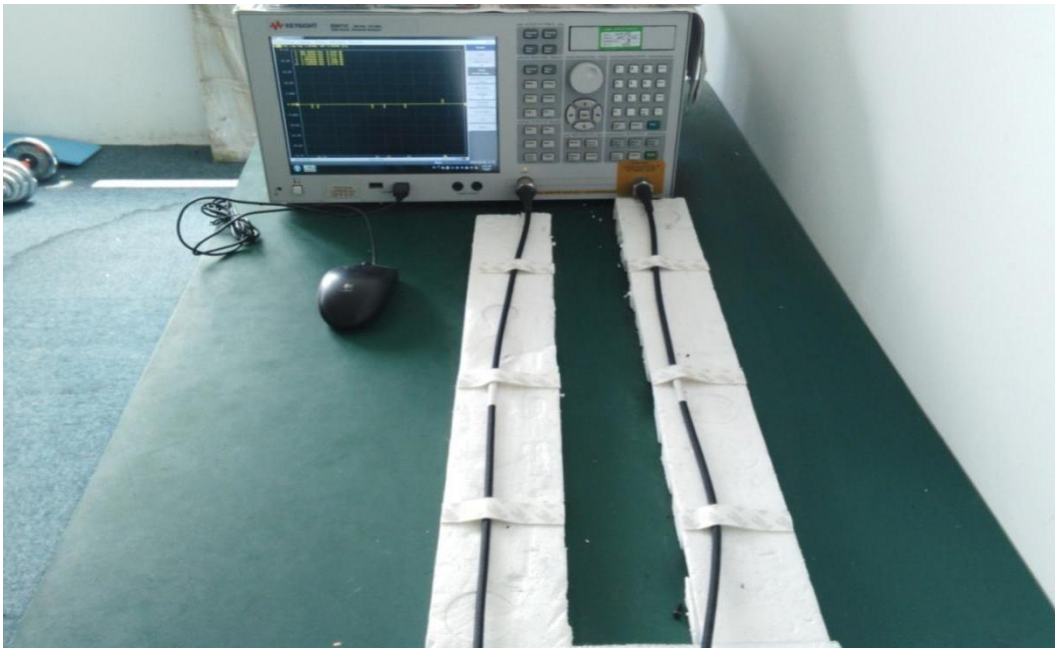
Freq.(MHz)	2400	2450	2500
VSWR	1.70	1.26	1.74
Gain(dBi)	2.40	3.62	3.33
Eff.	57.9%	64%	61.6%

1. RF Fixture Experiment

1.1 Test Setup

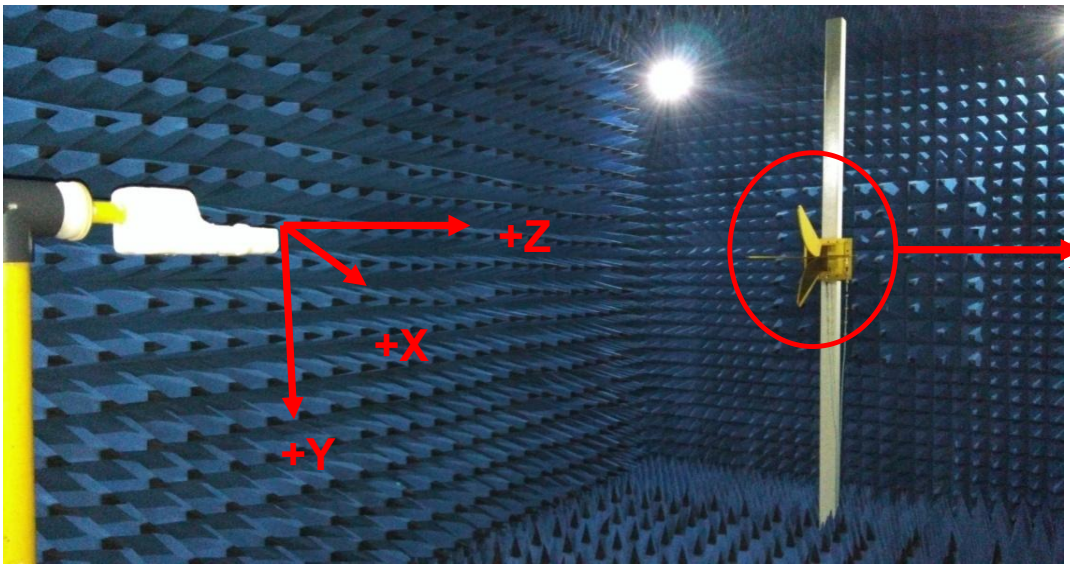
1.1.1 VNA Test Setup

VSWR and Return Loss measurements (S11) were performed using an KeySight E5071C Network Analyzer. The isolation between antennas is also tested. The testing was performed with apparatus in free space.



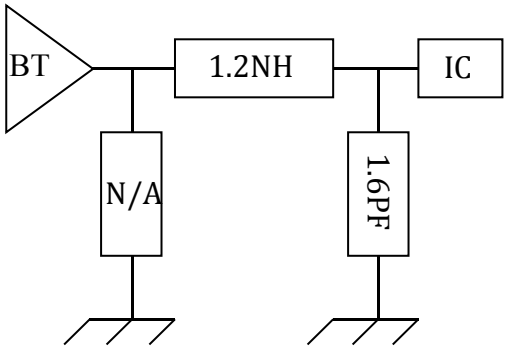
1.1.2 Anechoic Chamber Test Setup

The gain of the antenna was measured in the anechoic chamber.
The chamber provides less than –30 dB reflectivity from 400 MHz through 6 GHz. The chamber size is:7m*4m*3m. The measurement results are calibrated using a leaky wave horn standard. We can measure the antenna gain and efficiency accurately.

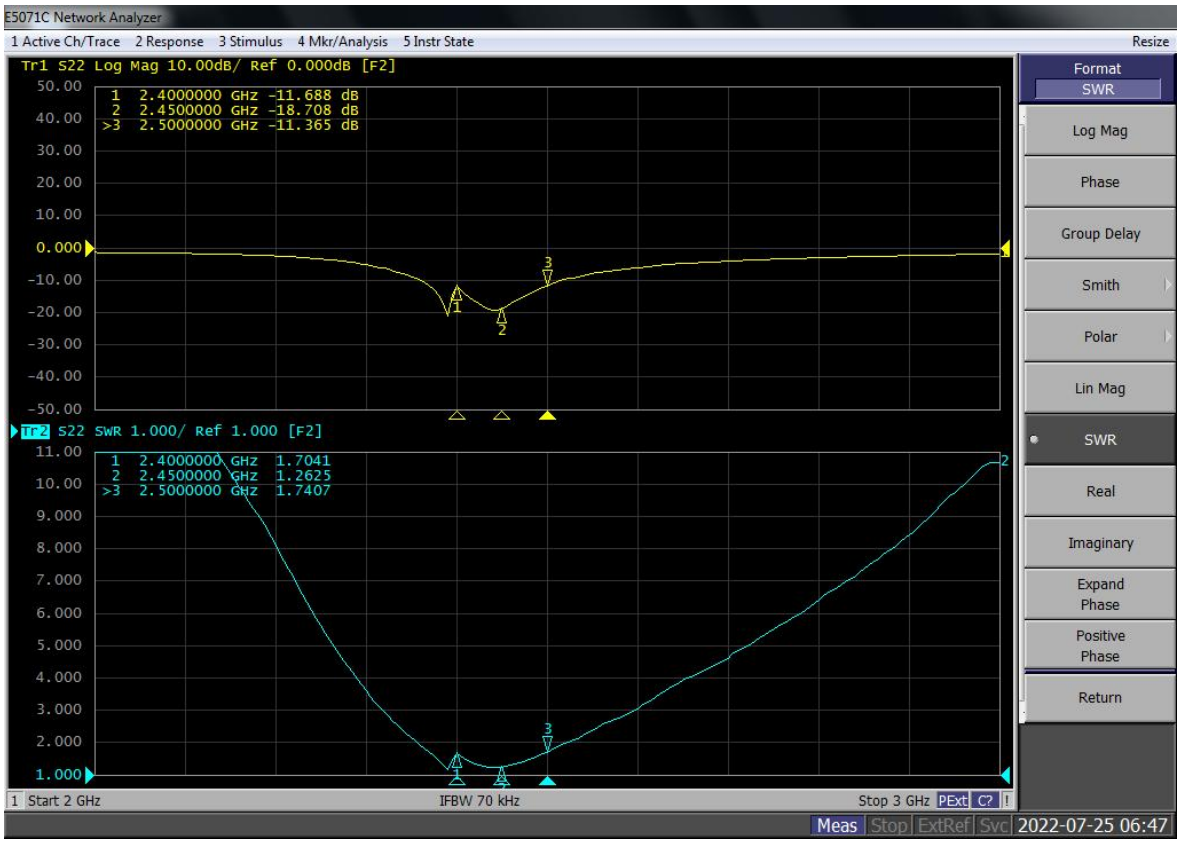


2.Antenna Solution

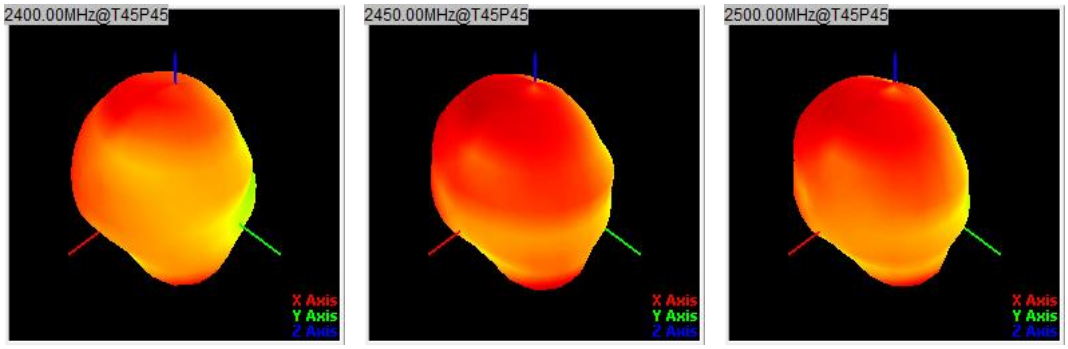
3.RF matching circuit for different antennas



S11(BT)



Radiation patterns:3D



Radiation patterns:2D