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Signal Plus Technology Co., Ltd.

Antenna Test Report

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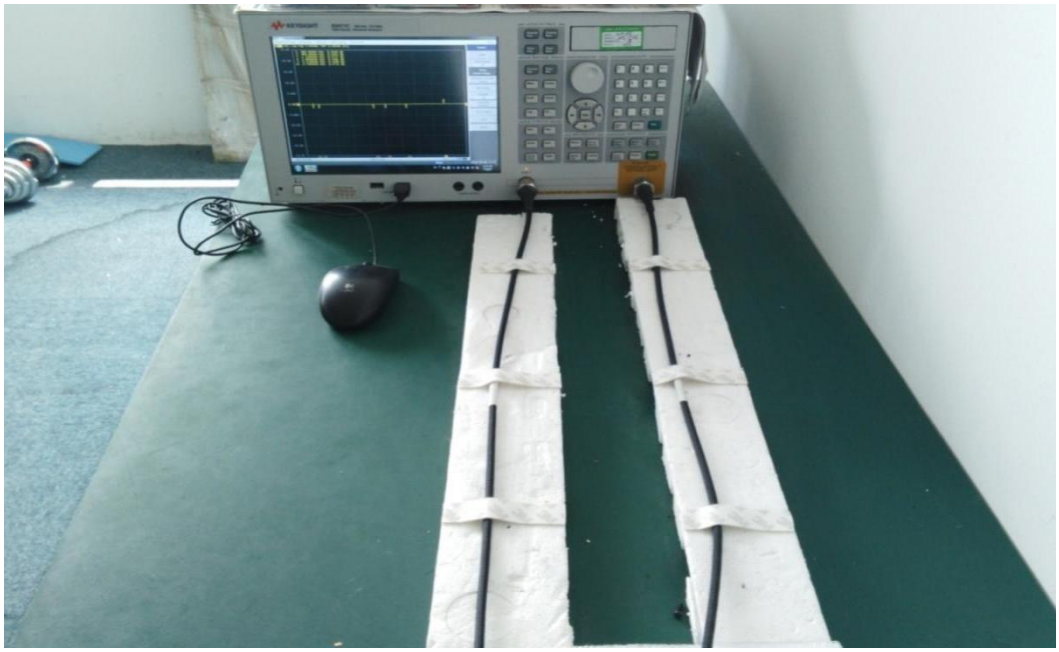
1. RF Fixture Experiment

1.1 Test Setup

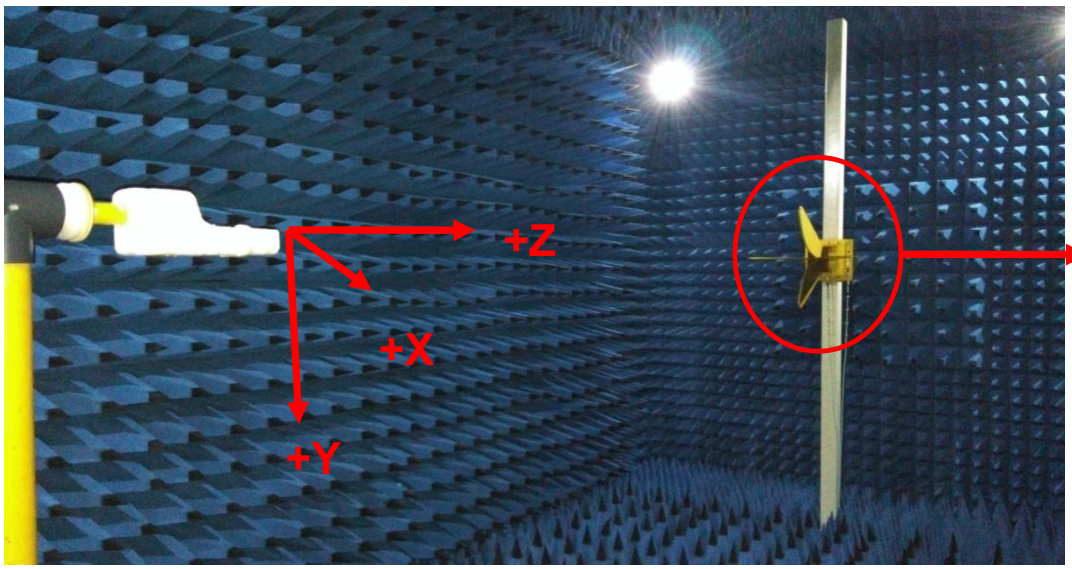
1.1.1 VNA Test Setup

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.



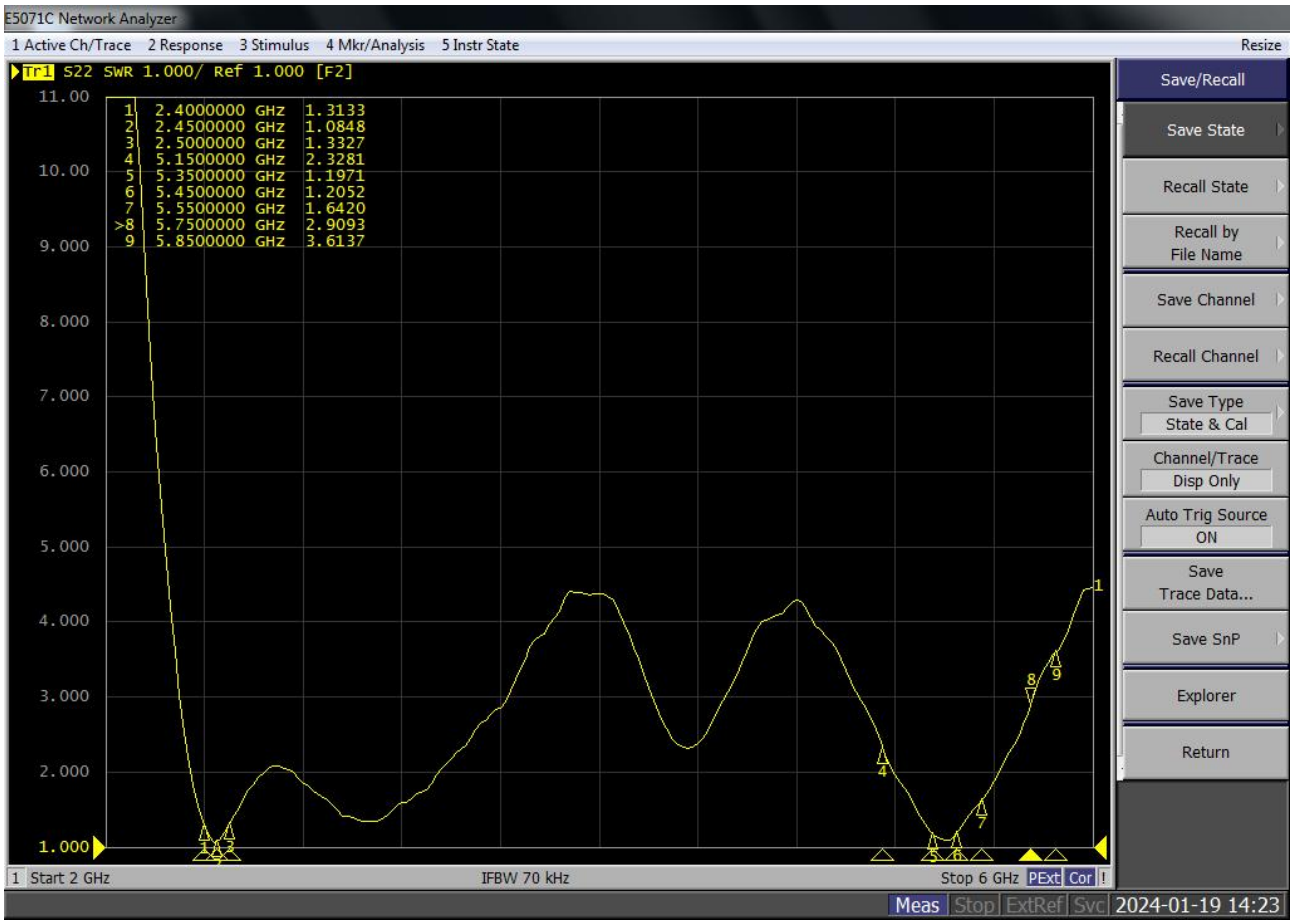
2.Antenna Solution

Data Preview

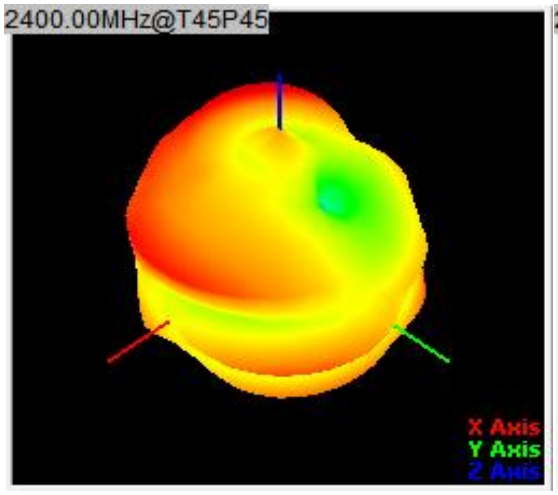
ANT1

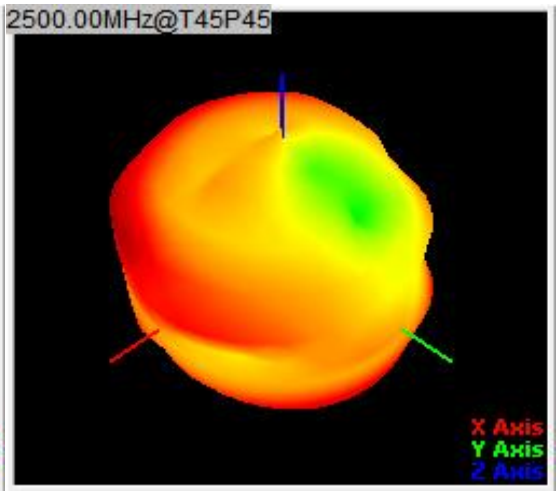
Freq.(MHz)	2400	2500	5150	5350	5450	5550	5750	5850
VSWR	1.31	1.33	2.32	1.19	1.20	1.64	2.90	3.61
Gain(dBi)	-0.73	-0.65	-0.90	0.23	0.34	0.10	0.80	0.85
Eff.%	76.2	75.5	61.1	68.7	78.4	74.4	70.1	55.5

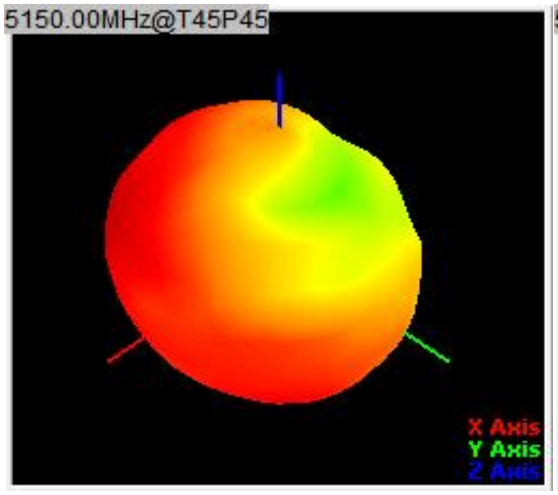
S11

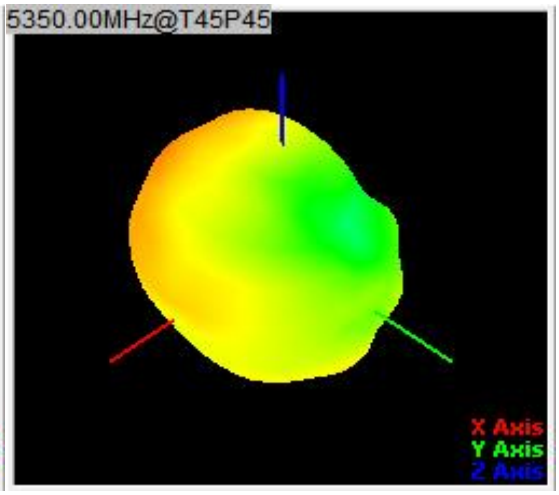


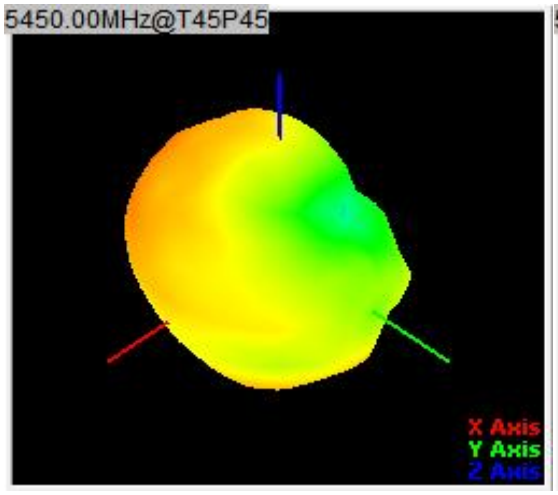
Radiation patterns:3D(2400/2500/5150/5350/5450/5550/5750/5850MHz)

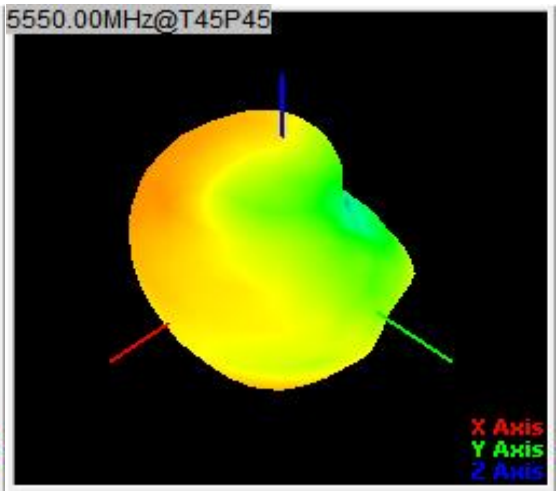


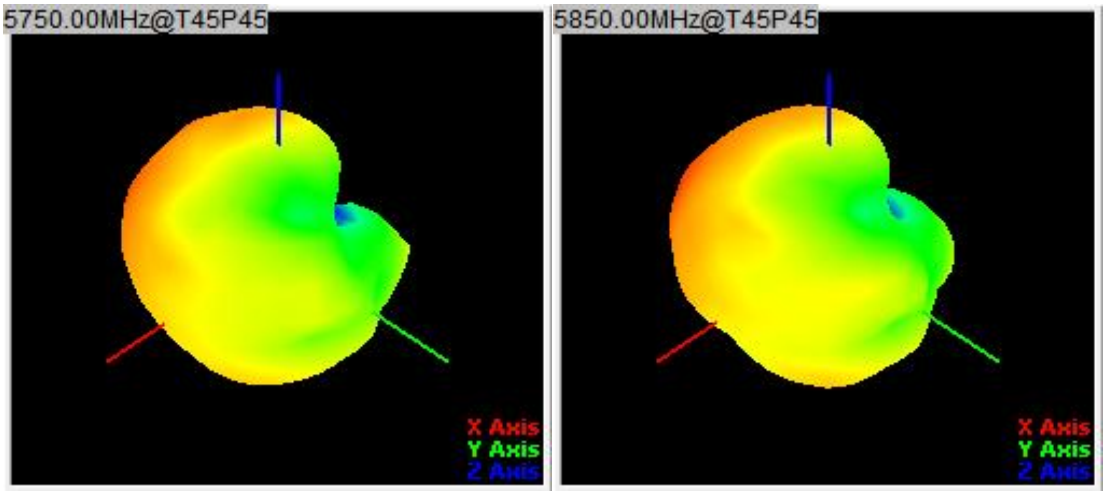




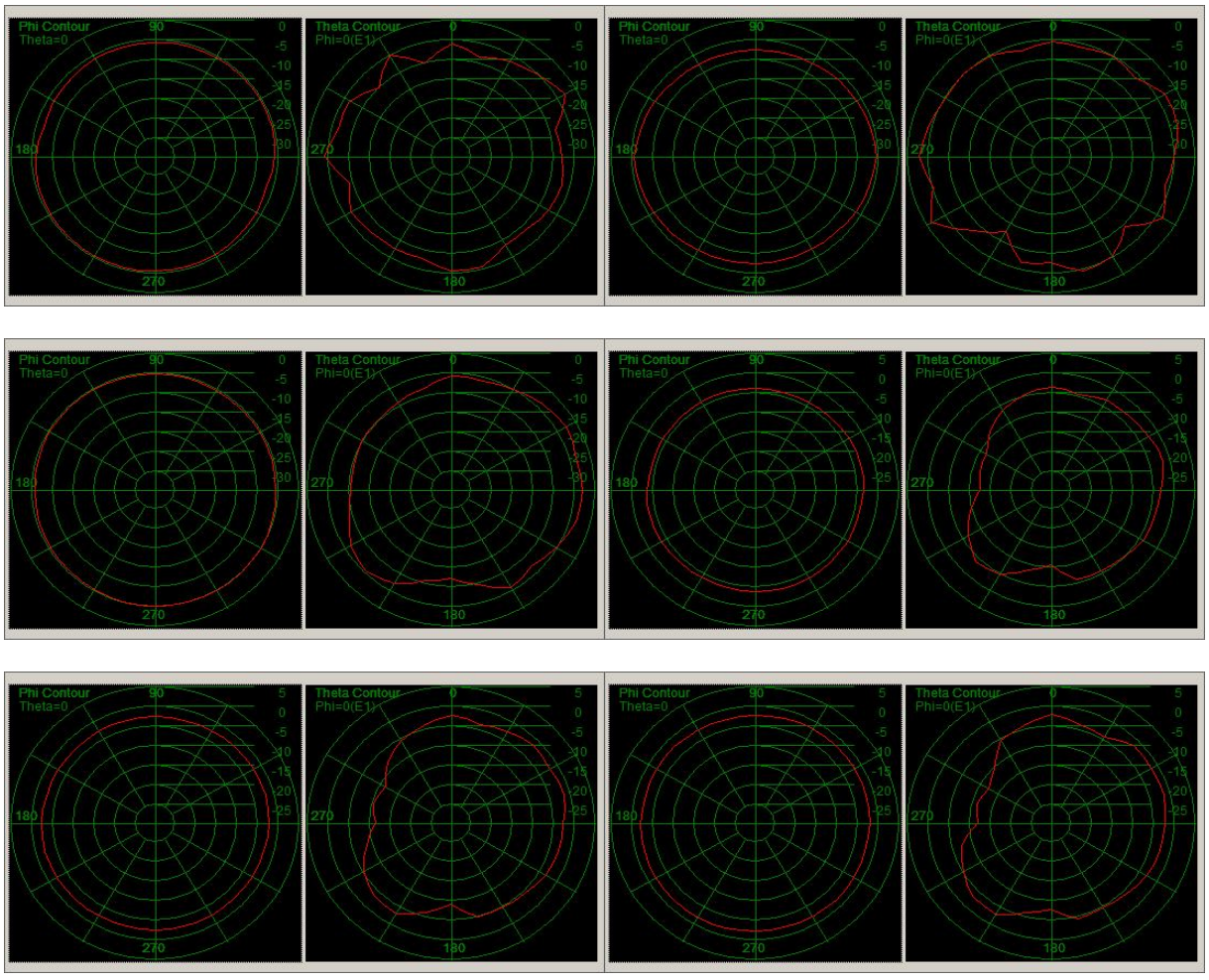


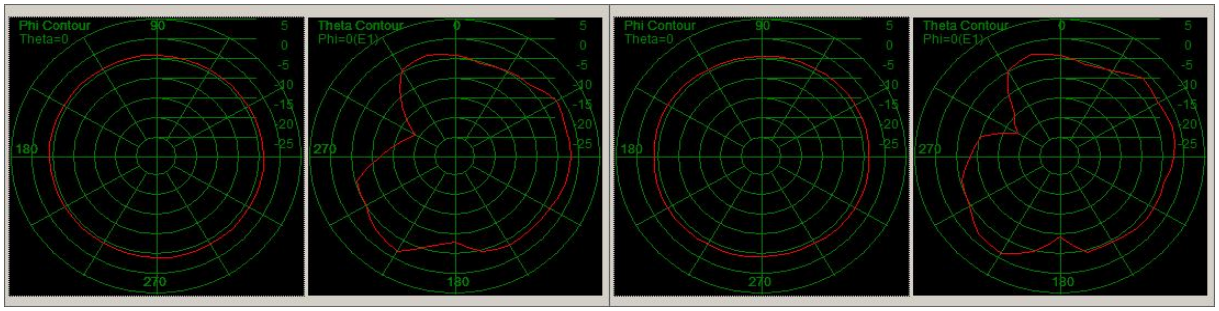






Radiation patterns:2D(2400/2500/5150/5350/5450/5550/55750/5850MHz)




Phi Contour
Theta=0
90
180
270
5
0
-5
-10
-15
-20
-25
Theta Contour
Phi=0(E1)
0
270
180
5
0
-5
-10
-15
-20
-25
Phi Contour
Theta=0
90
180
270
5
0
-5
-10
-15
-20
-25
Theta Contour
Phi=0(E1)
0
270
180
5
0
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