

承 認 書
SPECIFICATION FOR APPROVAL

客 戶
CUSTOMER

Hansong(NanJing)Technology Ltd

日 期
DATE

2018-07-11

品 名
DESCRIPTION

Antenna

客 戶 料 號
CUSTOMER P/N

45-2-000320

成 品 編 號
Model No

RC12WFI0288A1

Suzhou point positive electronic technology co.,ltd

ADD ;No 3 XinLang Road ,Yinghu industrial Park, Wangting Town
Xiangcheng district Suzhou City
E_mail; sales@ppteco.com

TEL : 0512--66706846 FAX : 0512-65088773

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SPECIFICATION

1. Description	ANTENNA
2. Customer	Hansong (NanJing) Technology Ltd
3. Model No	RC12WFI0228A1
4. Part No	45-2-000320
5. Standard	WIFI
6. Antenna Profile	31.5mm (see Drawing)
7. Color	BLACK
8. Electrical Characteristics	
Operating Frequency	2.4 ~5.8Ghz
Antenna Type	External PCB Antenna
Polarization Type	Omni-directional
Type of Radiation	vertical or horizontal
Peak Gain	2.4~5.8Ghz/2.8dBi Typica
Impedance	50Ω
V.S.W.R	2:1 Max
9. Mechanical Characteristics	
Swivel	
Lead Length	L:450MM
Connector	MHF CON
10. Raw Material	
Coaxial Cable	MINI1.13
Housing/Hinge	N/A

OUTLINESUMMARY

- Test Environment and Equipment
- Test Data of Antenna:

Test Result : Efficiency & Peak Gain

Test Result : 3D Radiation Pattern Test

TEST ENVIRONMENT AND EQUIPMENTS

The Gain, Efficiency, Directivity and 3D Pattern

Shanghai EM-Testing Co., Ltd.
<https://www.em-testing.com/>

Frequency Range :

WLAN 802.11 a/b/g: 2.40~2.50 & 5.125~5.85 GHz
Bluetooth : 2.4~2.5GHz

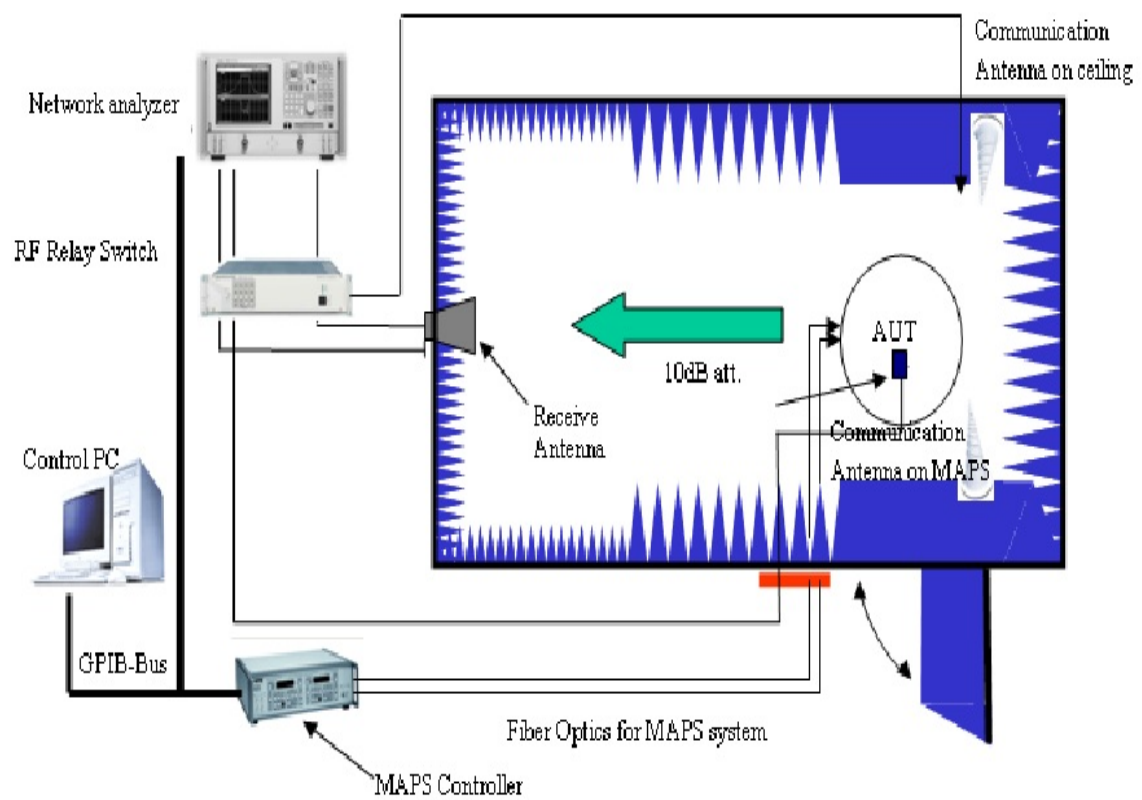
Radiation Pattern Test System :

Taet Laboratory:

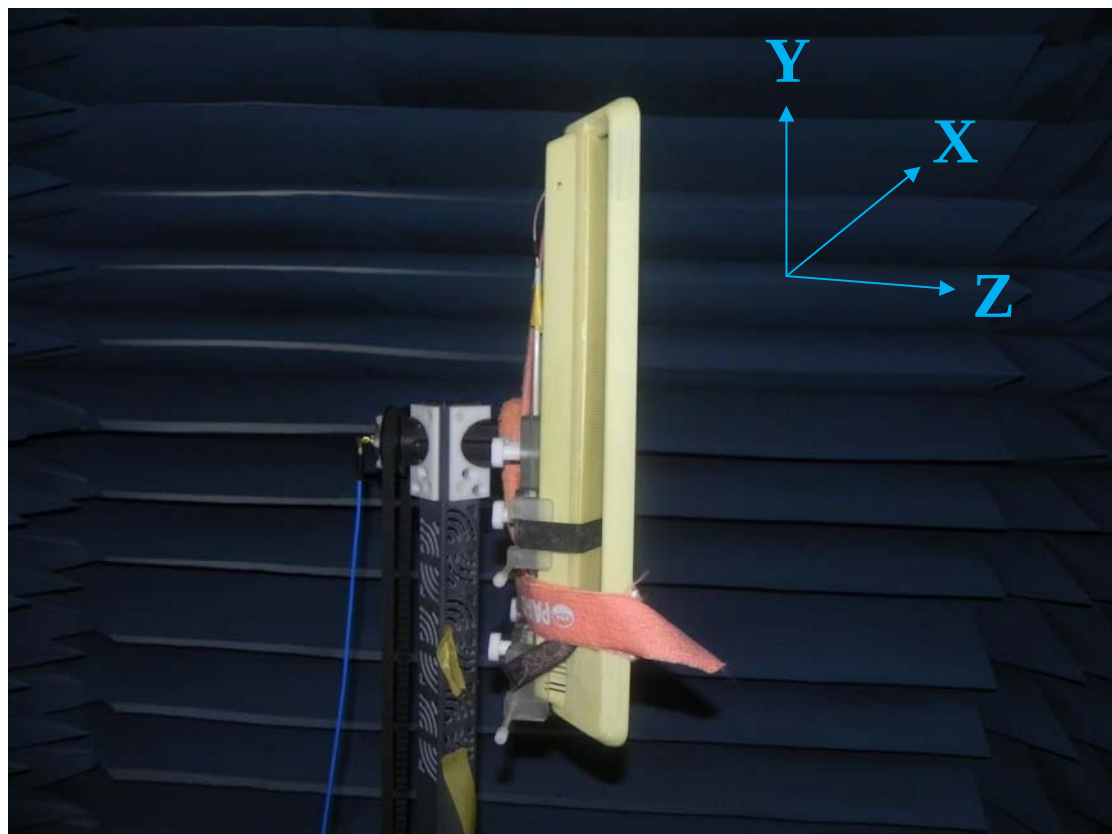
Name: **suzhou Laboratory**

Address: No.99 Hongye RD. Suzhou Industrial Park Loufeng Hi-New-Tech
Development Area, Suzhou, China

The test results relate only to the samples tested.

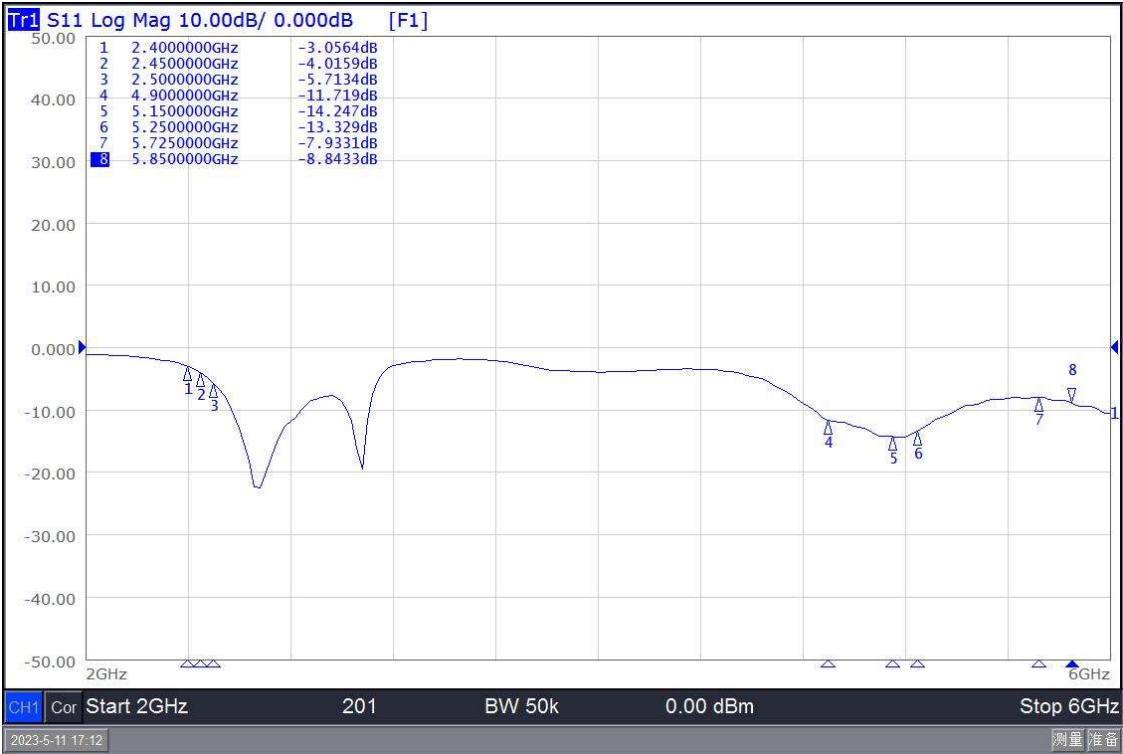


COORDINATE OF STRUCTURE:

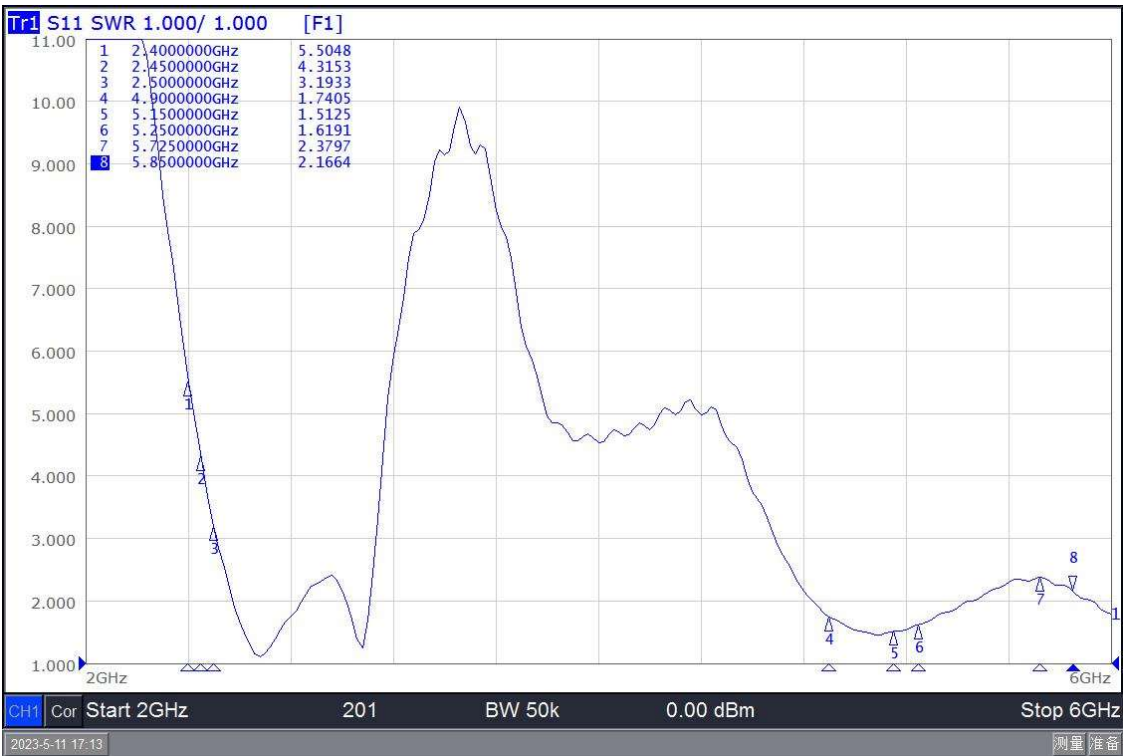


Network analyzer (Naked test)

S11

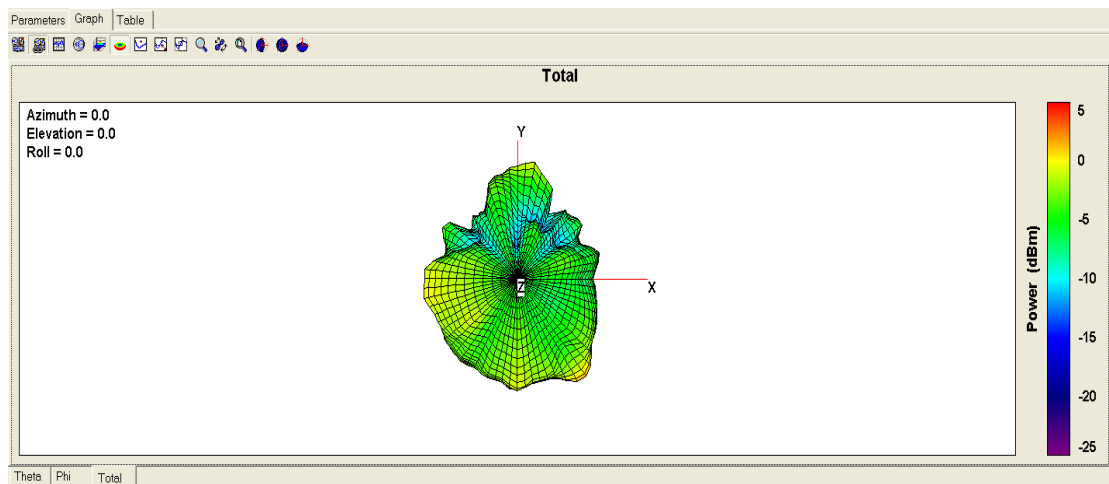


Vswr

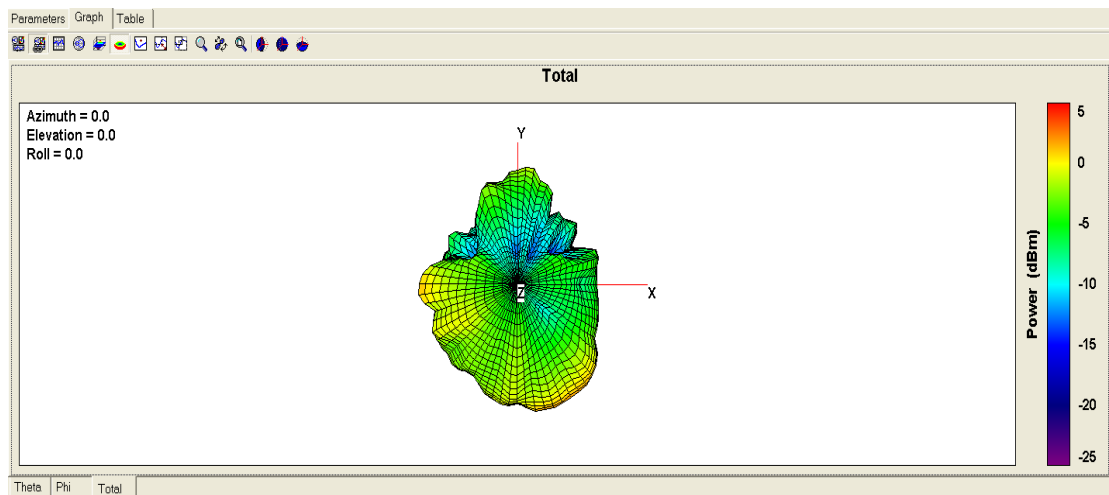


RADIATION PATTERN

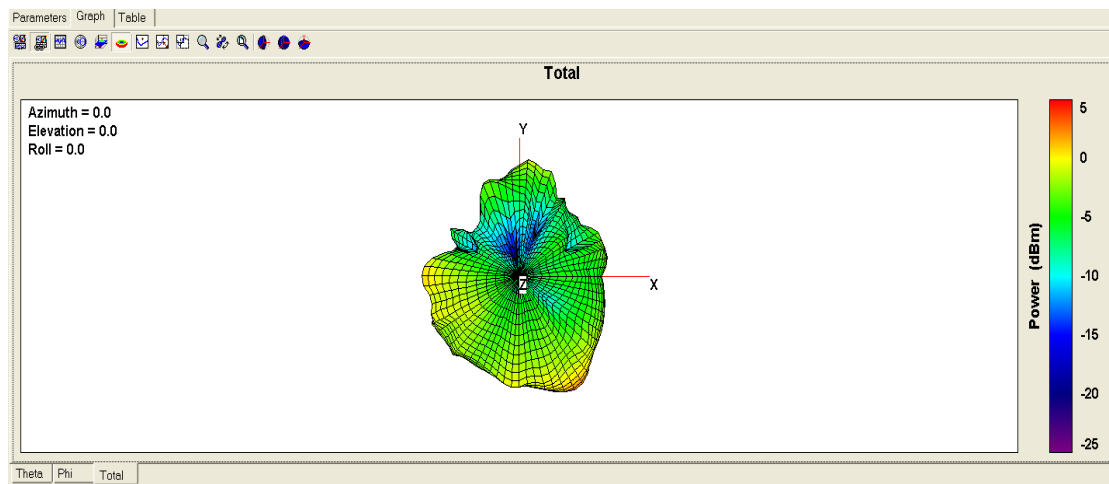
2.4G



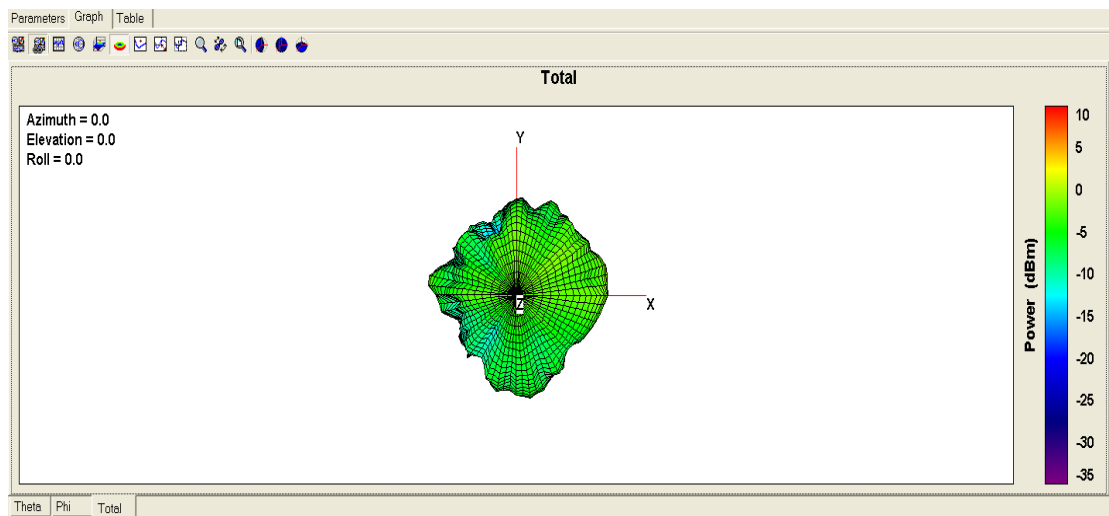
2.45G



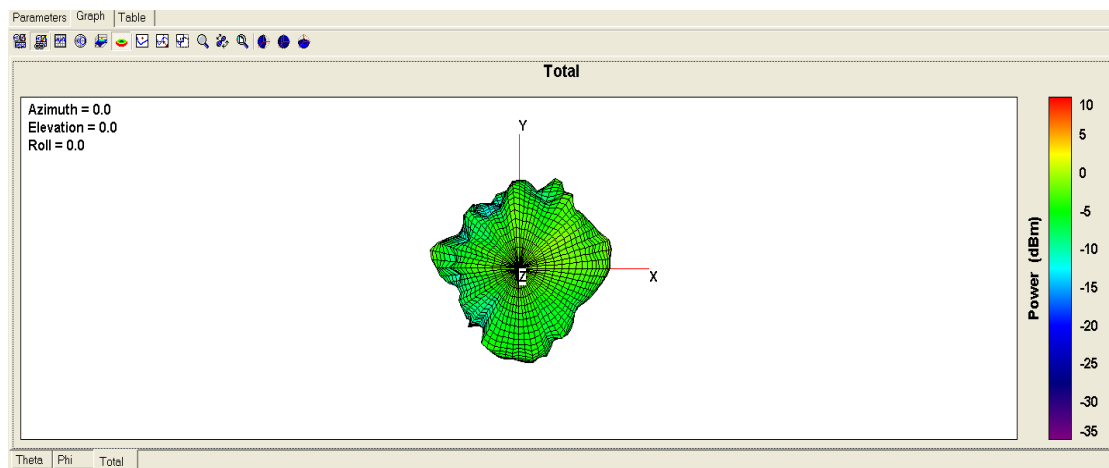
2.5G



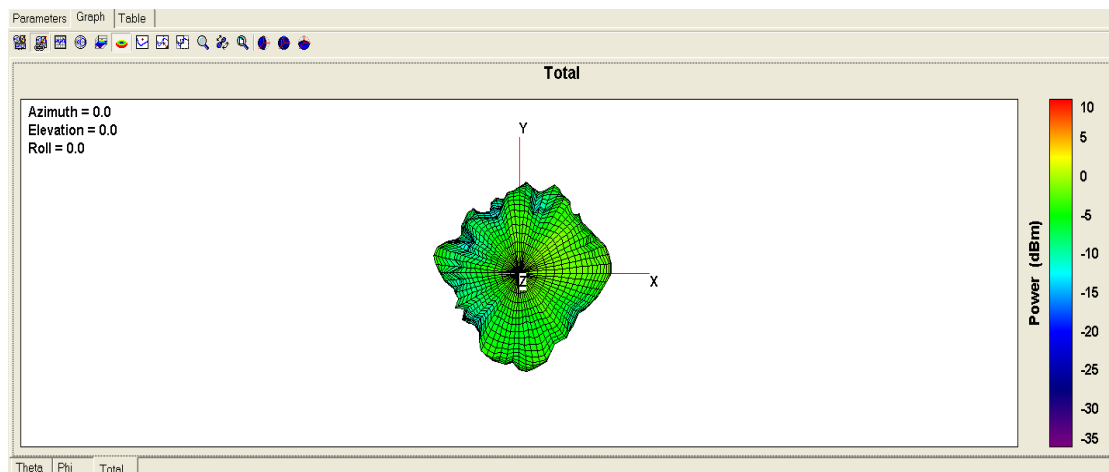
5.15G



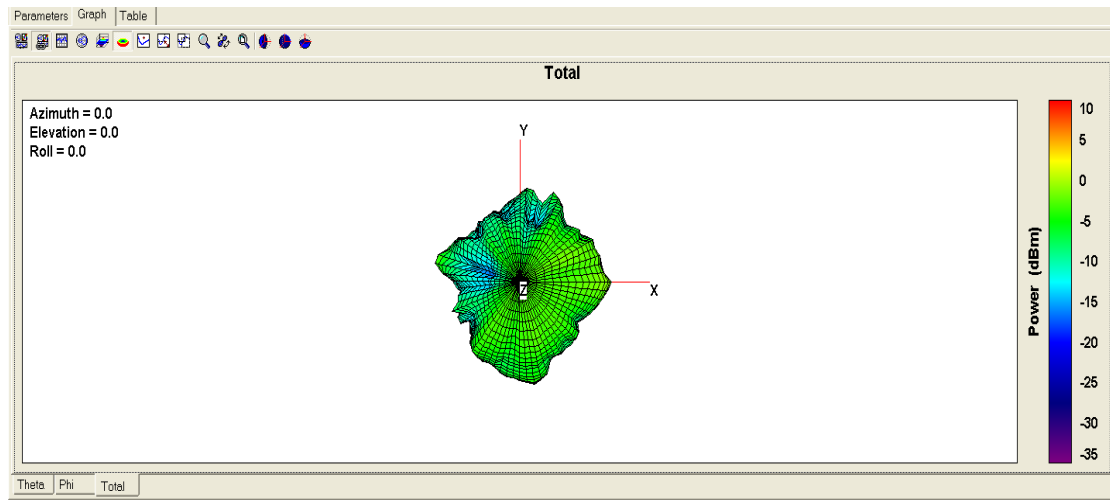
5.25G



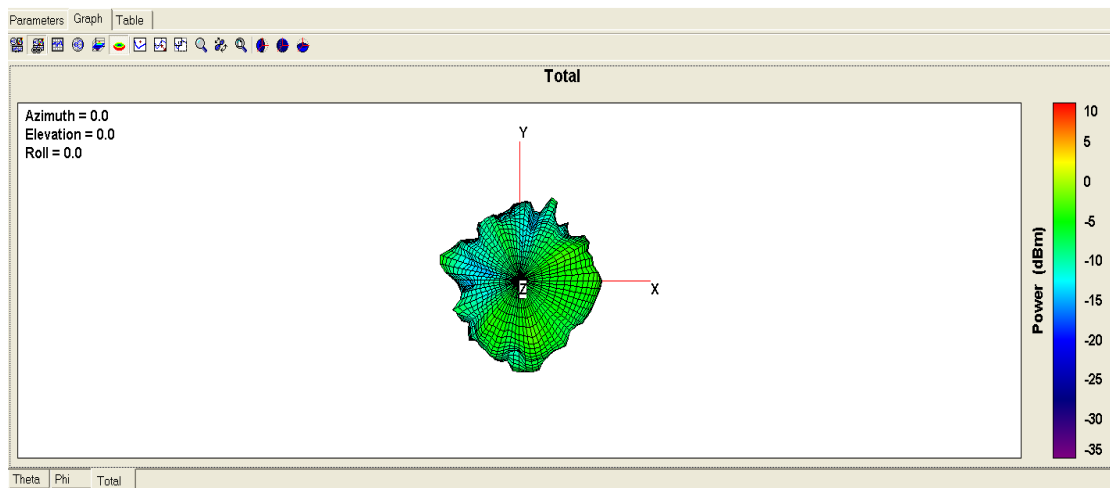
5.35G



5.725G



5.85G



TOTAL	Point values(Mhz)	Efficiency (%)	Peak Gain (dBi)
	2400	48.52	2.09381
	2450	52.91	2.14324
	2500	54.57	2.34422
	5150	36.43	2.54406
	5250	39.47	2.59018
	5350	32.62	2.55269
	5725	34.94	2.53948
	5850	30.9	2.78974