硕天通讯 SOANT COMMUNICATION 苏州硕天通讯器材有限公司
Suzhou Soant Communication Equipment Co.,Ltd

承认书

SPECIFICATION FOR APPROVAL

客户名称
Customer: _____

产品名称
Product Name: **2.4G PCB 天线**

规格描述 **2.4G PCB（38*7.5*0.2）TO I-pex(GF) To RF-1.13 Black Cable**
Description: **L=180mm**

客户料号
CUSTP/N: _____

硕天料号
SOANT.P/N: STPCA387518IBA301

发出日期
Approval Date: 2017 年 02 月 21 日

核准 Approved	审核 Checked By	制作 Made By
	尹希兵	李秀娟

客户承认
Customer Approve

核准 Approved	审核 Checked By	承办 Undertake By

地址：江苏省苏州市相城区望亭镇太湖路 2 号
电话：0512-65719719
传真：0512-65719719
E-MAIL: joe@soant.com.cn
网址：http://www.soant.com.cn

目录

承认书变更履历表

No.	原版	变更日期	变更内容	变更项目描述
1	A	2017-2-21	新增	----------

TECHNICAL DATE

BT Antenna Assembly

1.Electrical Specifications

1.1 Frequency Ranges ……. 2.4~2.5GHz

1.2 Impedance …….. 50Ω

1.3 VSWR…….. 2.0max

1.4 Return Loss…….. -10dBmax

2. Physical Properties

2.1 Cable Type ……Φ1.13mm Coaxial

2.2 Cable Color……BLACK

2.3 Cable Attenuations ……1.8dB/m @ 1.0GHz

2.6dB/m @ 2.0GHz

3.7dB/m @ 3.0GHz

4.8dB/m @ 4.0GHz

5.2dB/m @ 5.0GHz

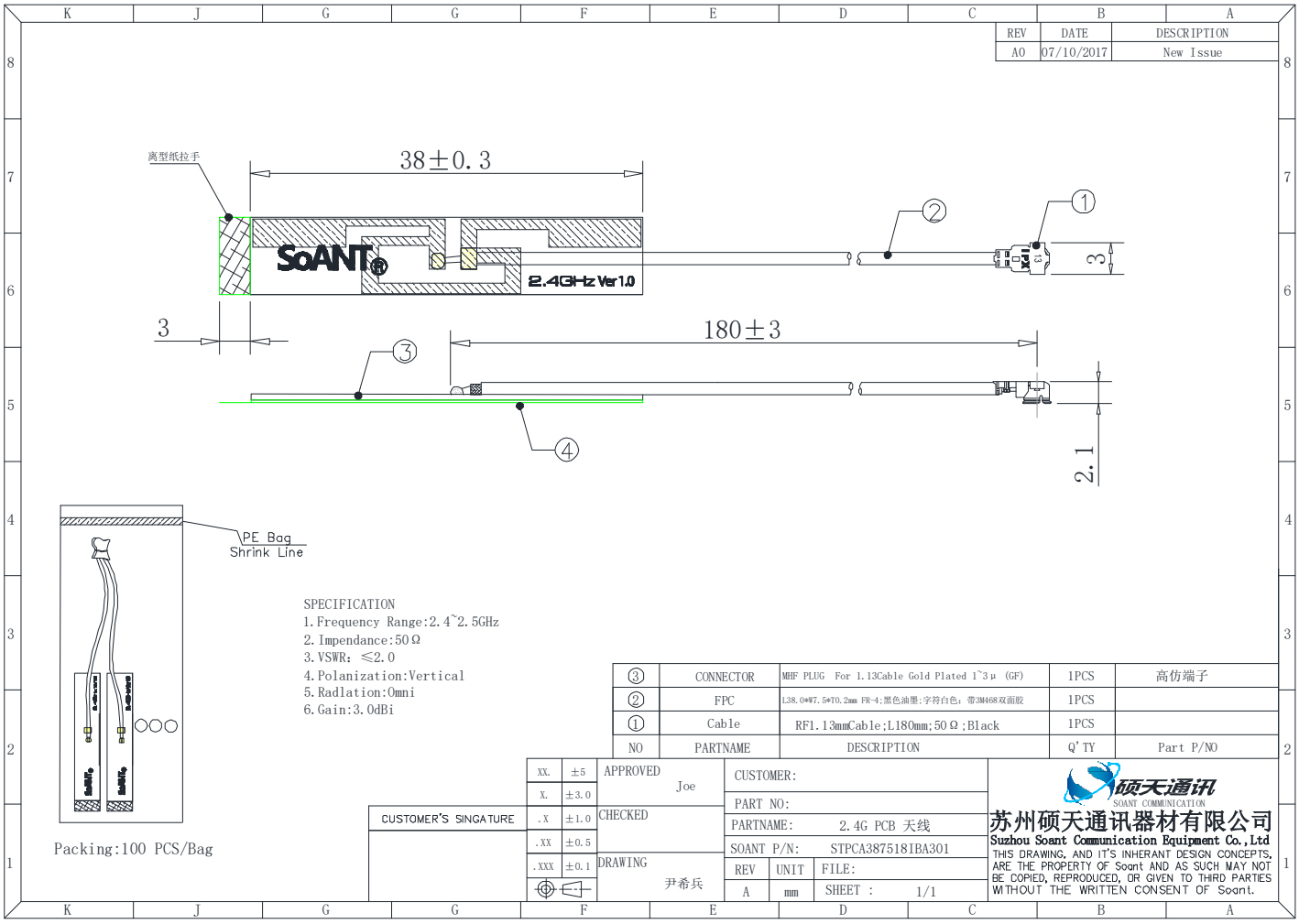
6.4dB/m @ 6.0GHz

2.4 PCB Metal ……FR-4

2.5Operating Temperature ……-20℃ ~ +65℃

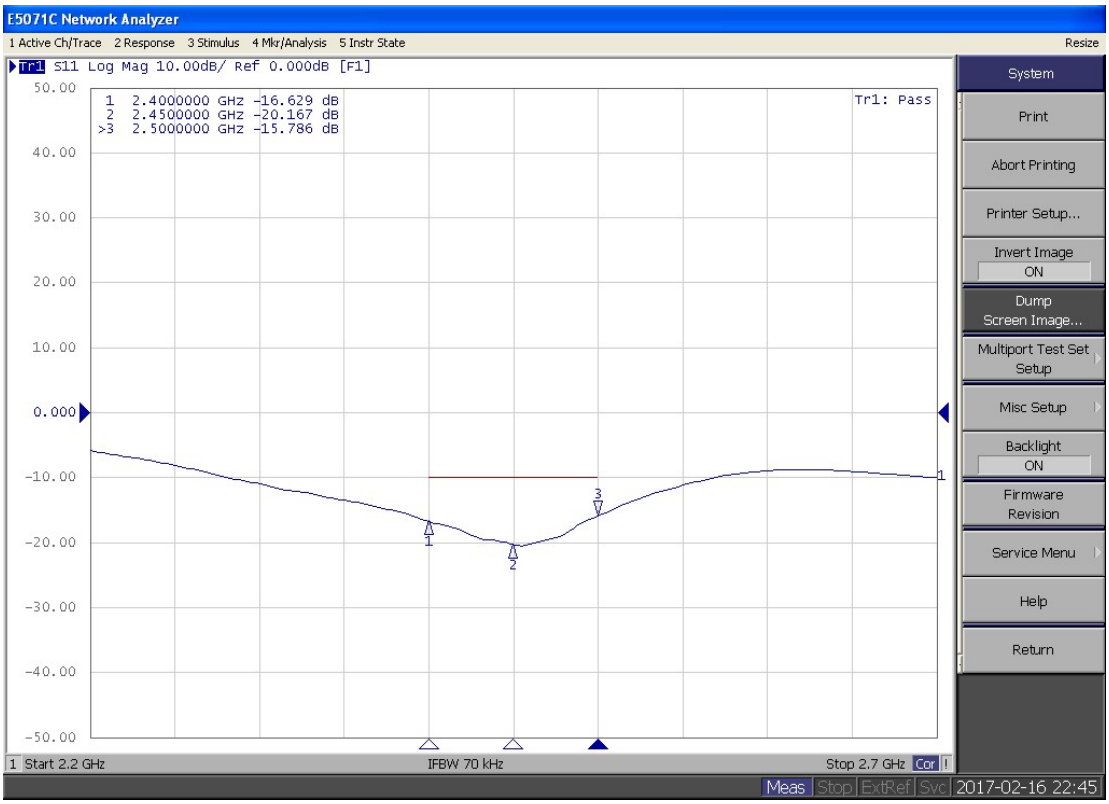
2.6Storage Temperature …… …… -30℃ ~ +75℃

工程图：

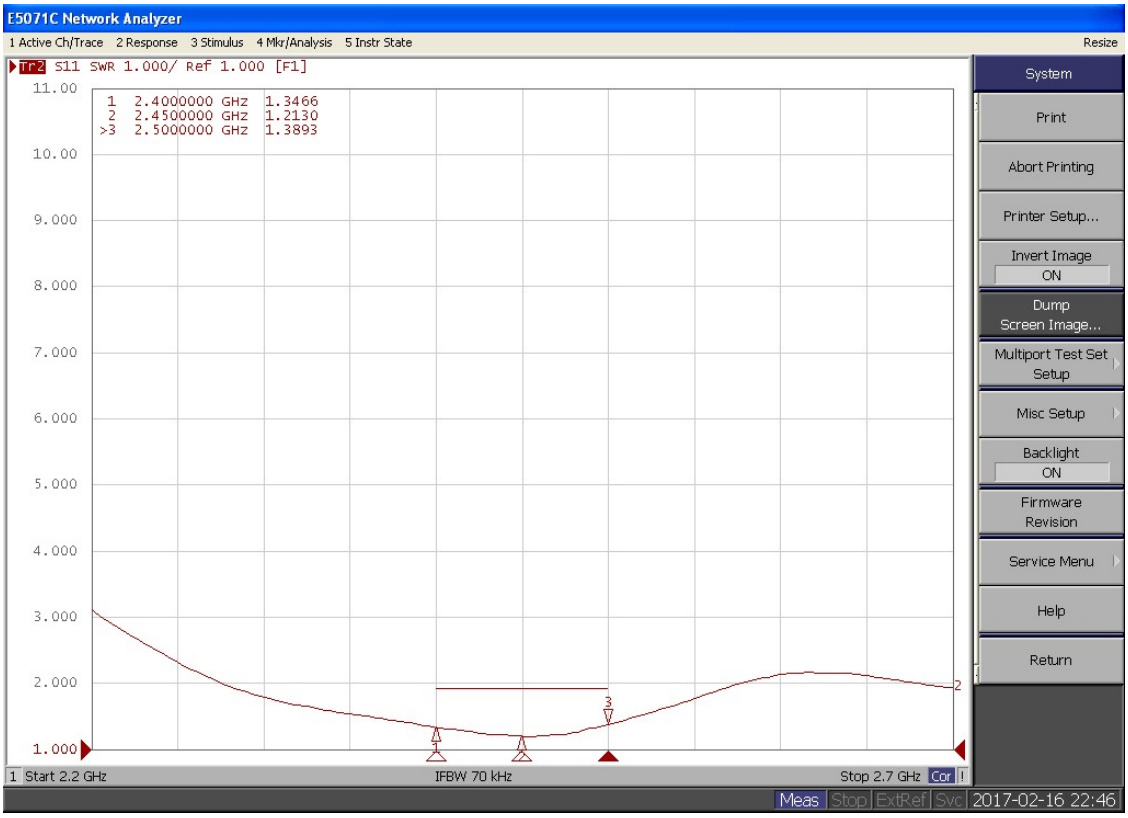

REV
DATE
DESCRIPTION
A0
07/10/2017
New Issue
离型纸拉手
38±0.3
SoANT
2.4GHz Ver1.0
3
3
180±3
2.1
PE Bag
Shrink Line
SPECIFICATION
1. Frequency Range:2.4~2.5GHz
2. Impendance:50Ω
3. VSWR: ≤2.0
4. Polanization:Vertical
5. Radlation:Omni
6. Gain:3.0dBi
③ CONNECTOR MHF PLUG For 1.13Cable Gold Plated 1~3μ (GF) 1PCS 高仿端子
② FPC L38.0*W7.5*T0.2mm FR-4;黑色油墨;字符白色；带3M468双面胶 1PCS
① Cable RF1.13mmCable;L180mm;50Ω;Black 1PCS
NO PARTNAME DESCRIPTION Q'TY Part P/NO
Packing:100 PCS/Bag
CUSTOMER'S SINGATURE
APPROVED Joe
CHECKED
DRAWING 尹希兵
CUSTOMER:
PART NO:
PARTNAME: 2.4G PCB 天线
SOANT P/N: STPCA387518IBA301
REV A
UNIT mm
FILE:
SHEET : 1/1
苏州硕天通讯器材有限公司
Suzhou Soant Communication Equipment Co.,Ltd
THIS DRAWING, AND IT'S INHERANT DESIGN CONCEPTS, ARE THE PROPERTY OF Soant AND AS SUCH MAY NOT BE COPIED, REPRODUCED, OR GIVEN TO THIRD PARTIES WITHOUT THE WRITTEN CONSENT OF Soant.

测试报告

Return Loss:

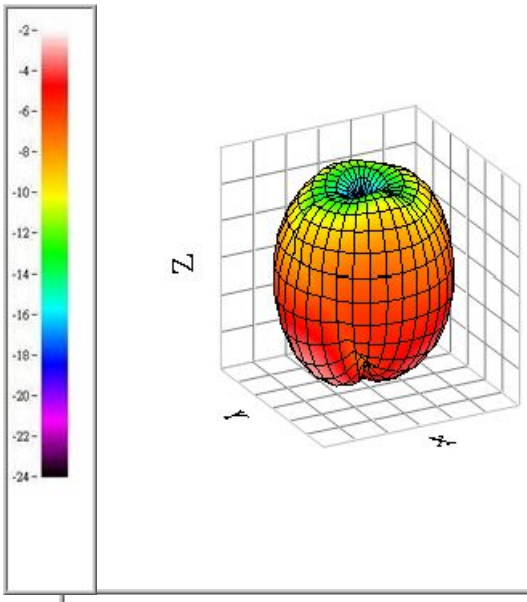


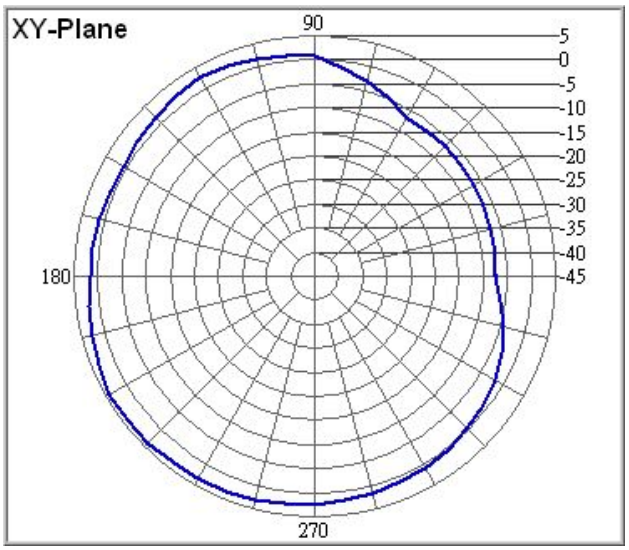
V.S.W.R

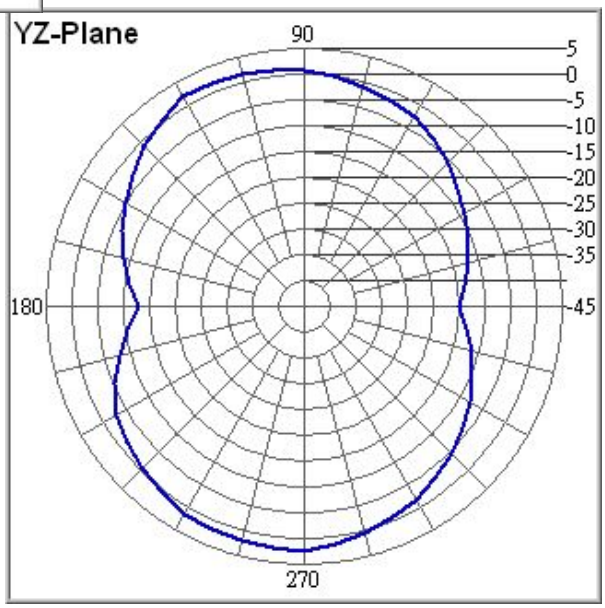


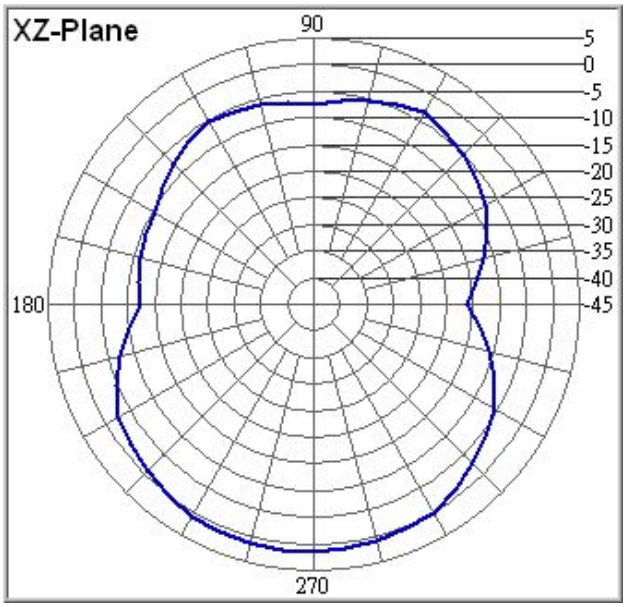
Frequency = 2400 MHz

dBm	XY-Plane	XZ-Plane	YZ-Plane
H-Pol. (Peak.)	4.138122	1.541986	2.344337
V-Pol. (Peak.)	-7.999004	-10.830696	-7.999004
H+V. (Peak.)	4.141678	1.593585	2.399362
H-Pol. (Avg.)	0.783414	-3.376923	-1.771325
V-Pol. (Avg.)	-13.105059	-14.510229	-13.984869
H+V. (Avg.)	0.95728	-3.054639	-1.517986
Angle	XY-Plane	XZ-Plane	YZ-Plane
H-Pol. (Peak.)	210	270	270
V-Pol. (Peak.)	90	240	90
H+V. (Peak.)	210	270	270



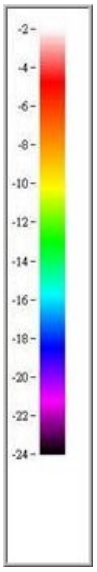


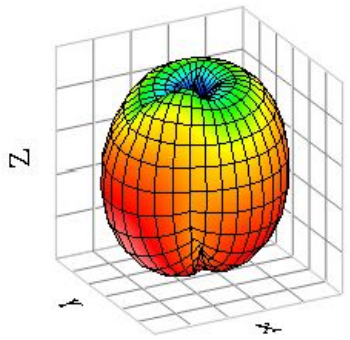


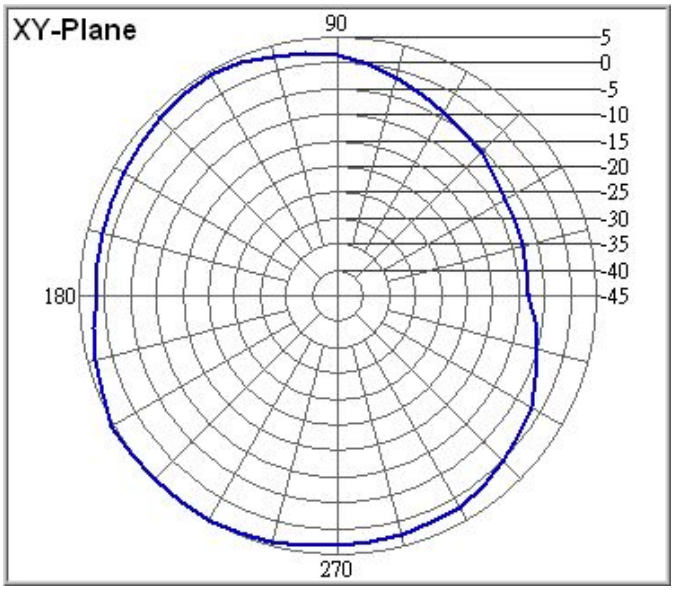


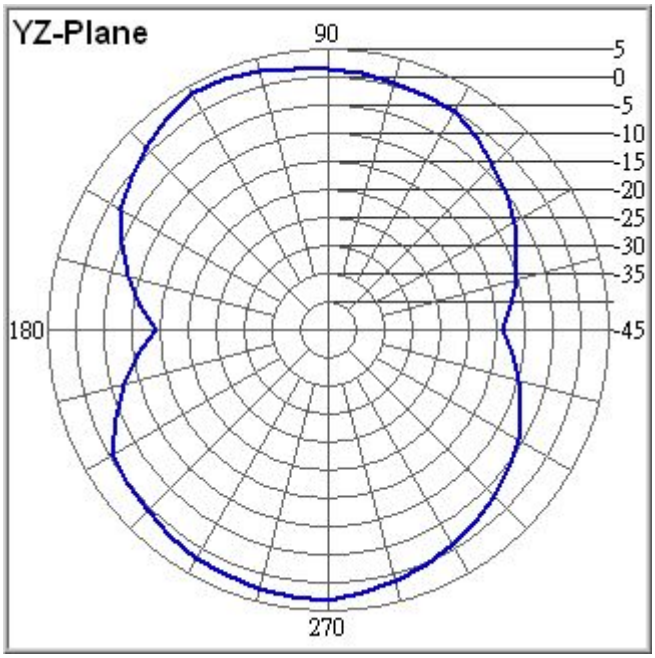
Frequency = 2450 MHz

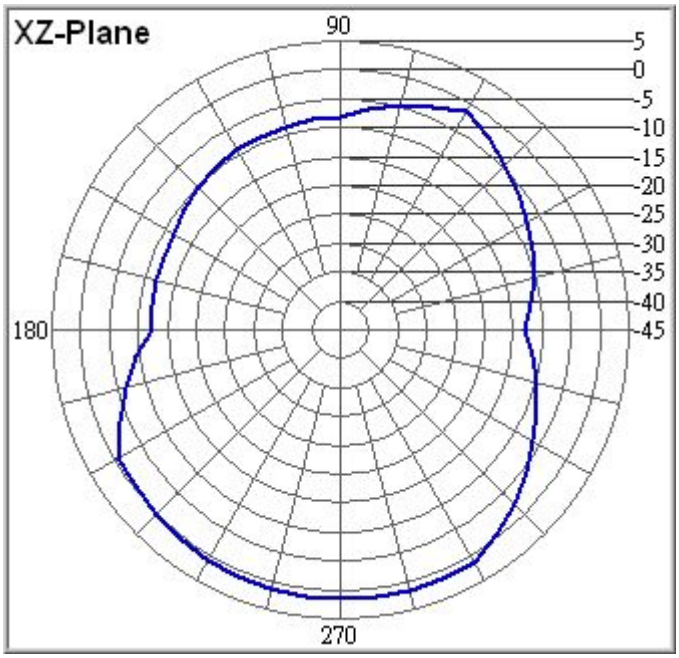
dBm	XY-Plane	XZ-Plane	YZ-Plane
H-Pol. (Peak.)	5.361914	1.552464	3.589634
V-Pol. (Peak.)	-7.878981	-7.486785	-9.210093
H+V. (Peak.)	5.362791	1.627744	3.754486
H-Pol. (Avg.)	1.907404	-2.961612	-0.412159
V-Pol. (Avg.)	-13.182841	-13.704806	-14.406141
H+V. (Avg.)	2.039875	-2.610232	-0.242385
Angle	XY-Plane	XZ-Plane	YZ-Plane
H-Pol. (Peak.)	210	270	120
V-Pol. (Peak.)	120	210	90
H+V. (Peak.)	210	300	120





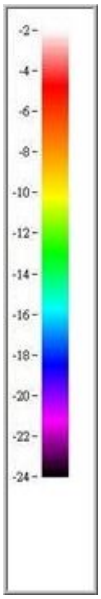


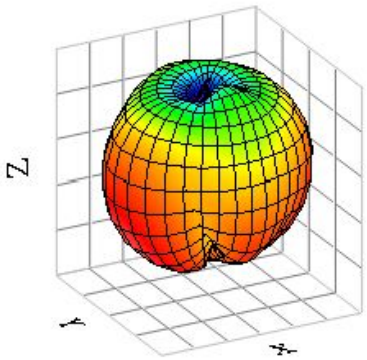


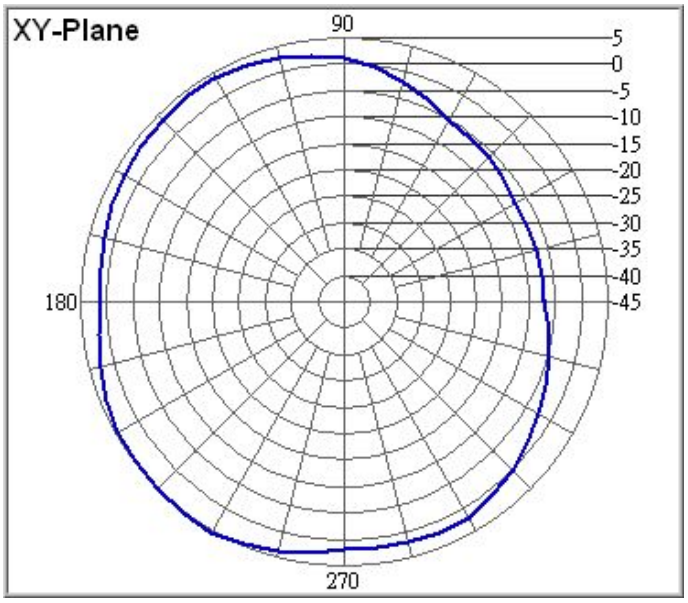


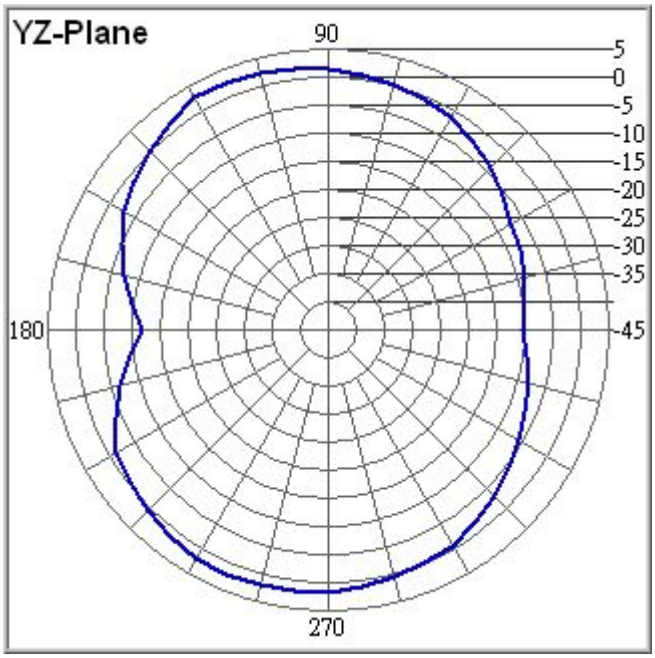
Frequency = 2500 MHz

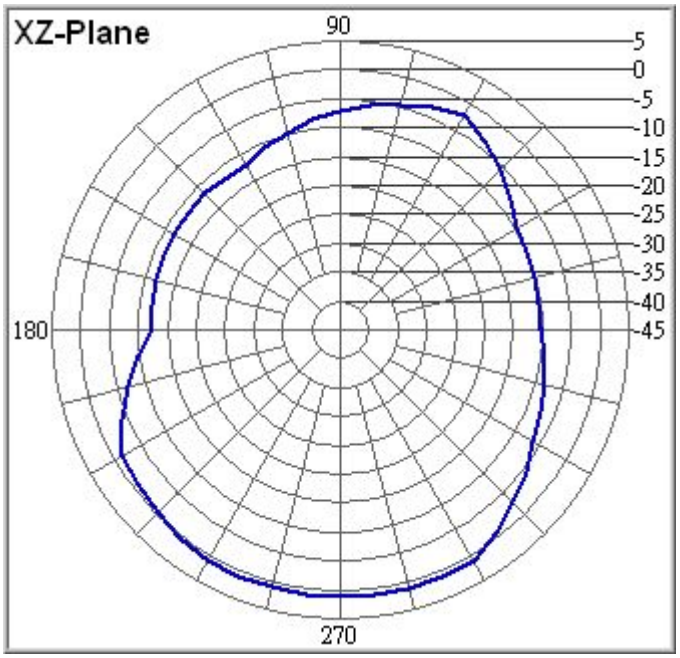
dBm	XY-Plane	XZ-Plane	YZ-Plane
H-Pol. (Peak.)	5.591316	1.214863	2.960606
V-Pol. (Peak.)	-9.346767	-8.649417	-12.179206
H+V. (Peak.)	5.602422	1.284218	3.042904
H-Pol. (Avg.)	1.729659	-3.322081	-0.949094
V-Pol. (Avg.)	-14.343192	-13.763179	-14.828232
H+V. (Avg.)	1.835631	-2.946453	-0.774861
Angle	XY-Plane	XZ-Plane	YZ-Plane
H-Pol. (Peak.)	240	300	120
V-Pol. (Peak.)	300	210	300
H+V. (Peak.)	240	300	120











3D Total Date

Total/ Frequency	Ant. Port Input	Tot.Rad.Pwr. (dBm)	PeakEIRP (dBm)	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2400	0	-0.98513	4.141678	5.126802	-0.98513	79.705358	4.141678
2437	0	-0.54022	4.946598	5.486816	-0.54022	88.303555	4.946598
2442	0	-0.54719	4.742009	5.289199	-0.54719	88.161917	4.742009
2450	0	0.083789	5.362791	5.279002	0.083789	98.948045	5.362791
2484	0	-0.09264	5.262933	5.355568	-0.09264	97.88958	5.262933
2500	0	-0.27091	5.602422	5.873335	-0.27091	93.952579	5.602422