

AD-303N

Antenna Approval Sheet

Part Number	R3410110222
Product Number	AD-303N
Description	3dBi/3dBi 2.4G/5GHz Dipole RP-SMA
DOC NO.	AS-1809002

Ver.1.4

Revised History

Version	Purpose	Date	Editor
V1.0	Initial	09/18/2018	Aaron
V1.1	Revised Page6 Pic and Page 8 Gain table	02/15/2019	Kamoro
V1.2	Replaced Page 6 picture	08/16/2019	Kamoro
V1.3	Added Packing Info.	01/03/2020	Kamoro
V1.4	Revised Specification / Frequency (Page 3)	08/28/2020	Kamoro

SparkLAN		Customer
Sales	PM	Approved by
	Aaron	

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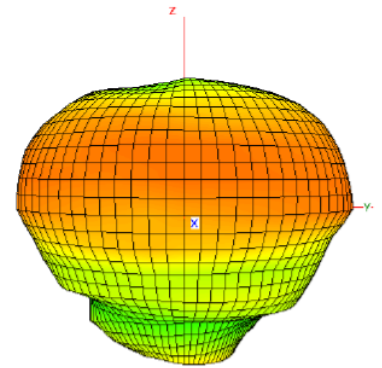
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Features

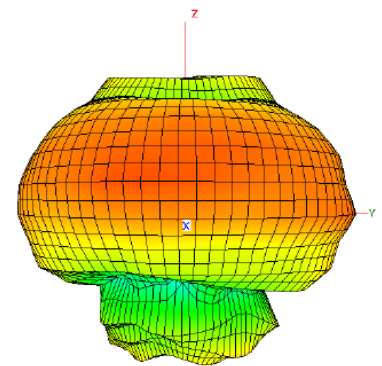
- Dual band IEEE 802.11 a/b/g/n/ac standard
- High efficiency
- Quick integration

Specification

Frequency (MHz)	2400 - 2483	5150 - 5825
Peak Gain (dBi)	3.0 ± 1	3.0 ± 1
VSWR	≤ 2.0	≤ 2.0
Power (Watts)	1	1
Impedance (Ohms)	50	50
Dimension (mm)	138 x $\varnothing$ 6	
Weight (g)	10.5 ± 2 g	
Connector	SMA Male RP	
Polarization	Liner ; Vertical	
Operating Temp (°C)	$-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$	

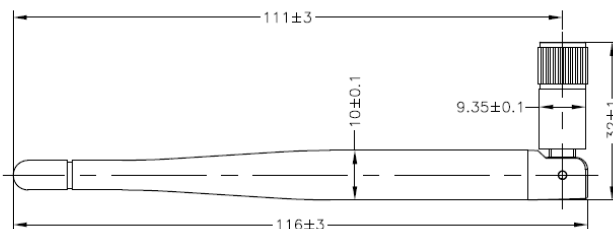
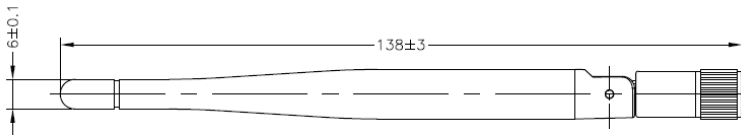


2.45GHz

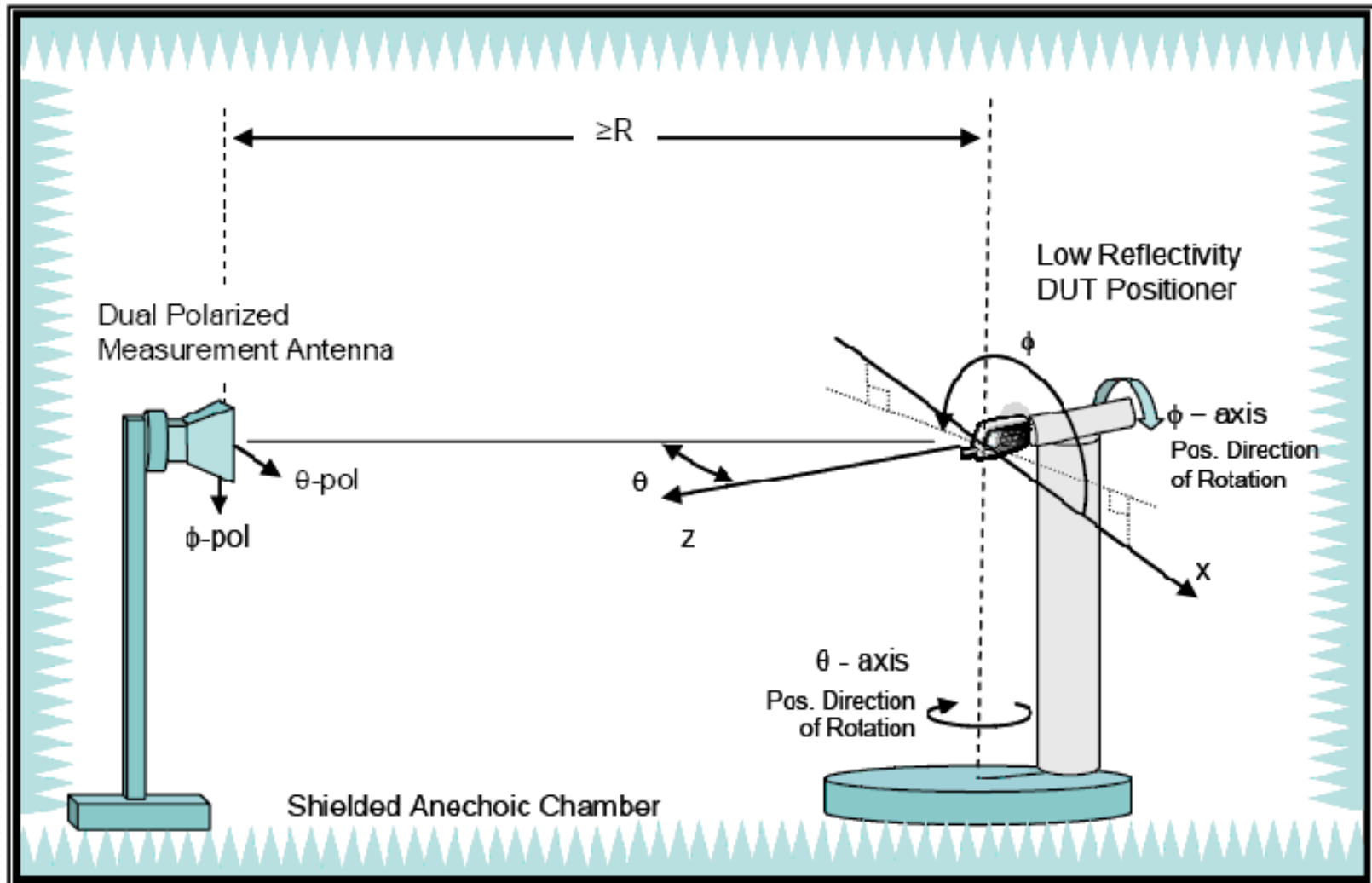


5GHz

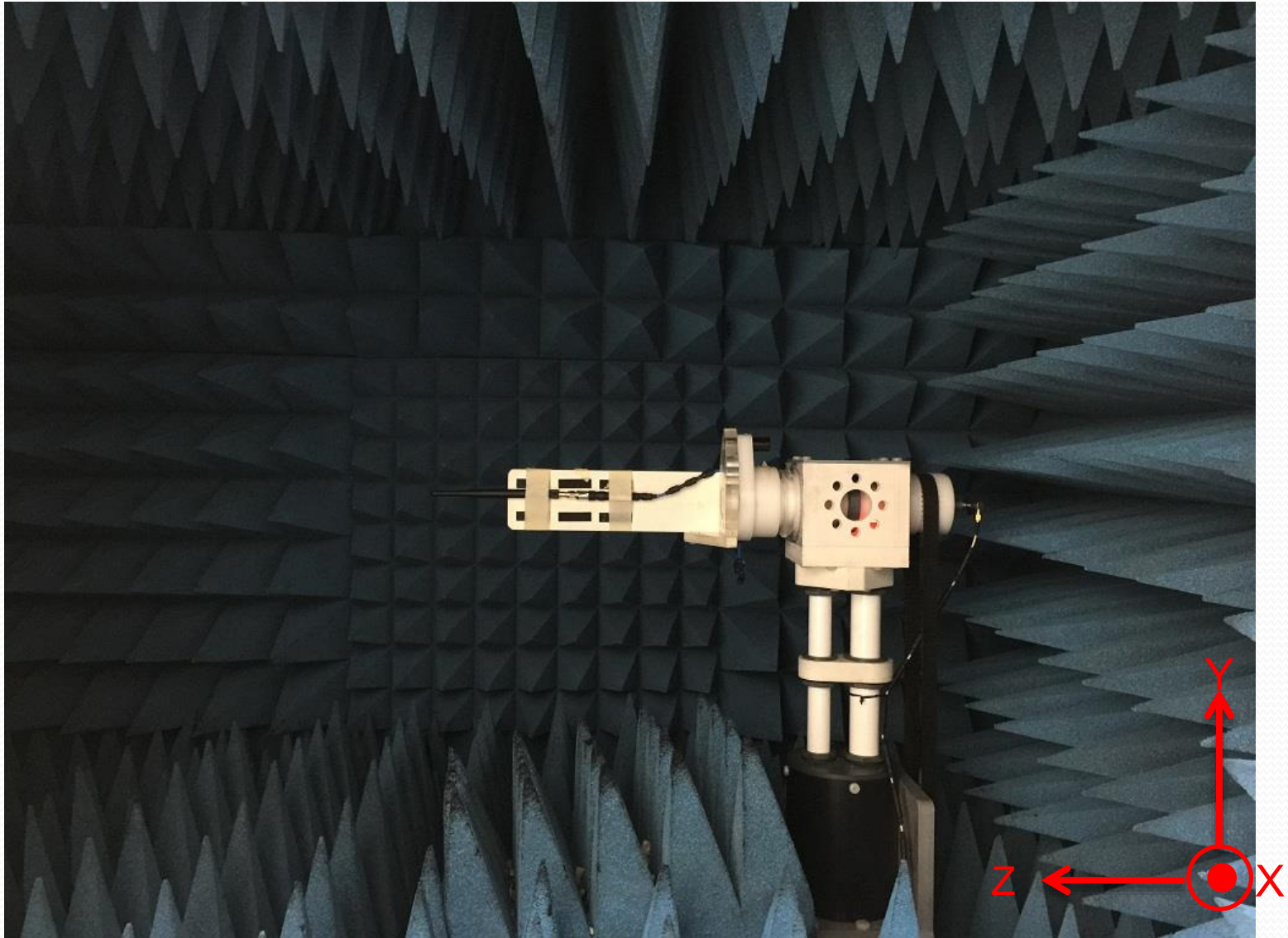
Mechanical Dimensions



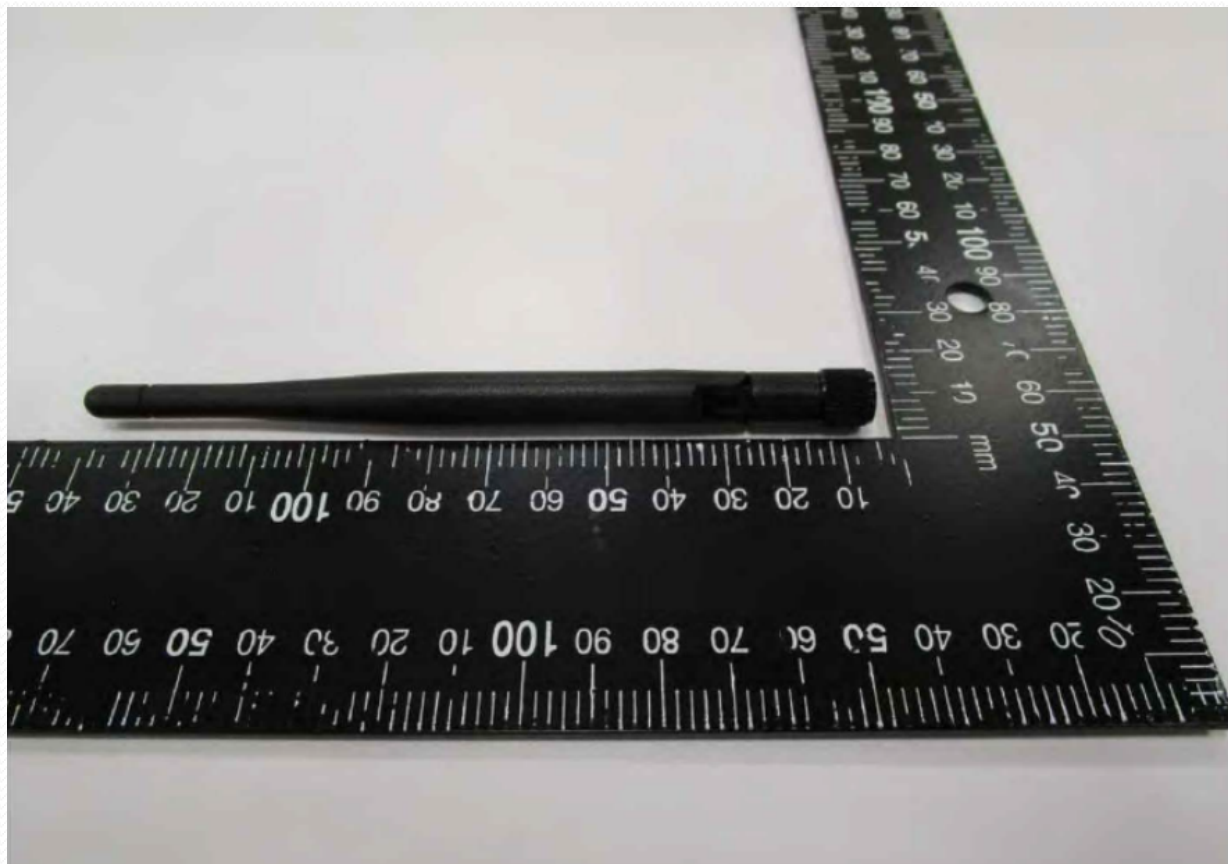
Antenna Testing System



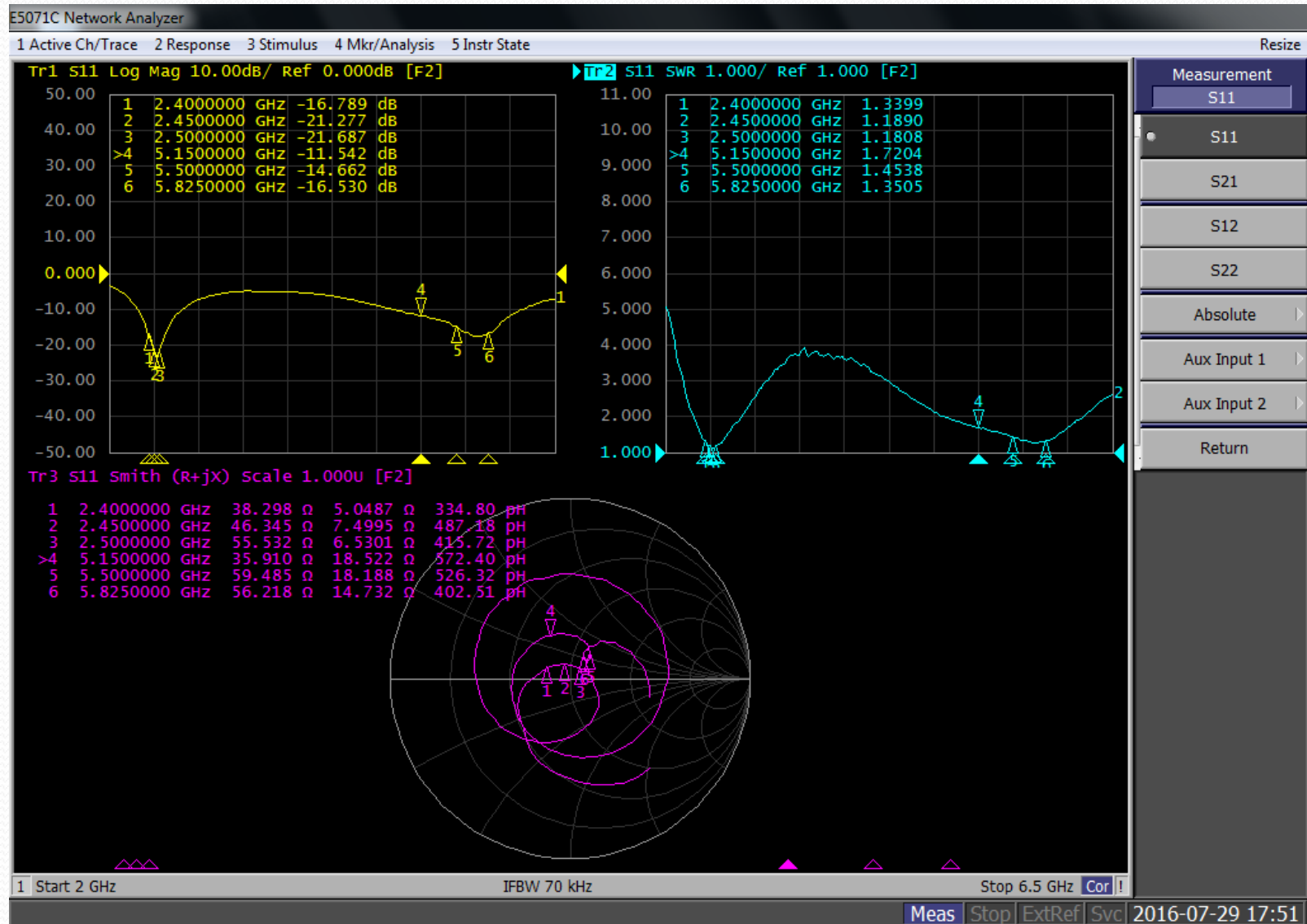
Antenna under testing



Antenna Placement



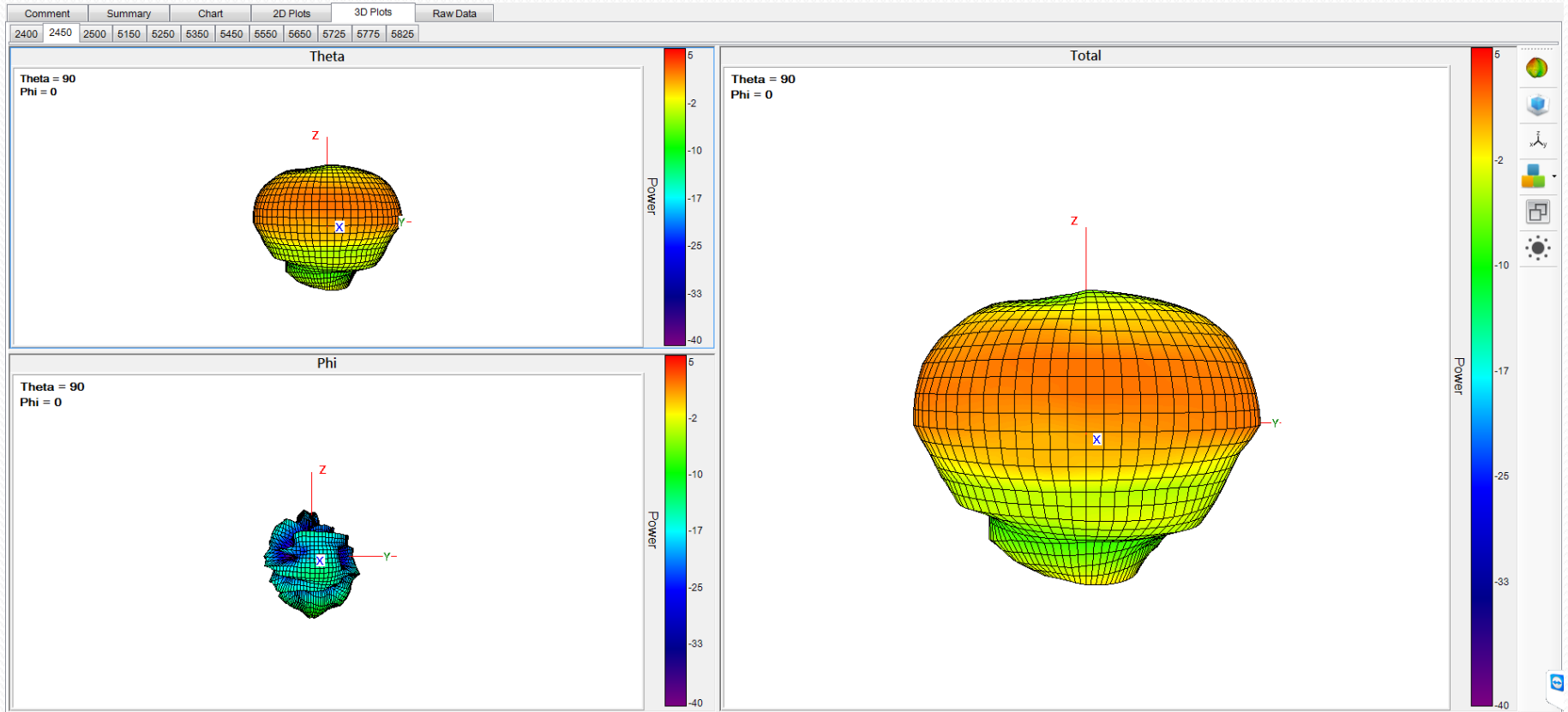
Ant S-Parameter, VSWR & Smith Chart



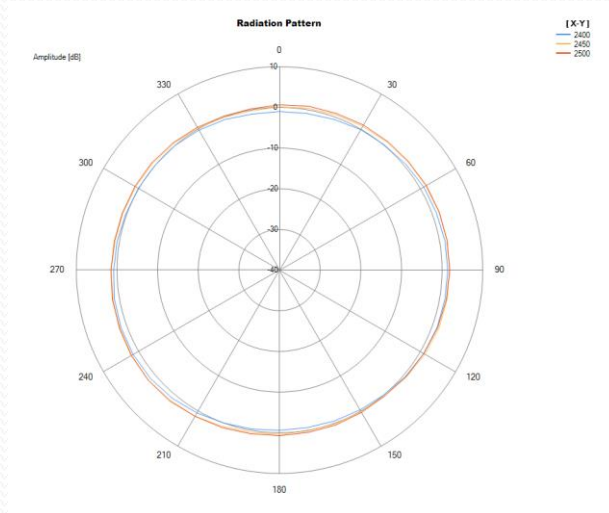
Gain Table

Ant												
Frequency (MHz)	2400	2450	2500	5150	5250	5350	5450	5550	5650	5725	5775	5825
Efficiency (dB)	-1.85	-1.49	-1.41	-1.57	-1.28	-1.18	-1.13	-1.73	-1.76	-1.83	-1.64	-1.96
Peak Gain (dBi)	2.86	3.14	3.10	2.59	2.82	3.24	3.45	2.79	3.01	2.85	2.97	2.57
Efficiency (%)	65.27	71.02	72.24	69.68	74.43	76.29	77.02	67.16	66.71	65.58	68.48	63.63

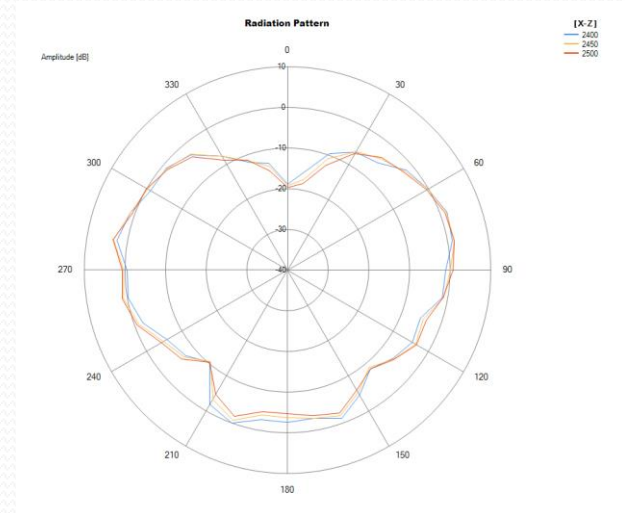
Ant 2.4G 3D Gain pattern



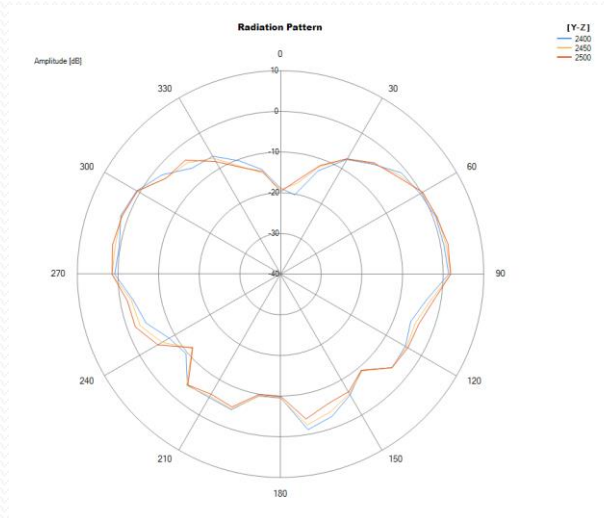
Ant 2.4G 2D Gain pattern



X-Y

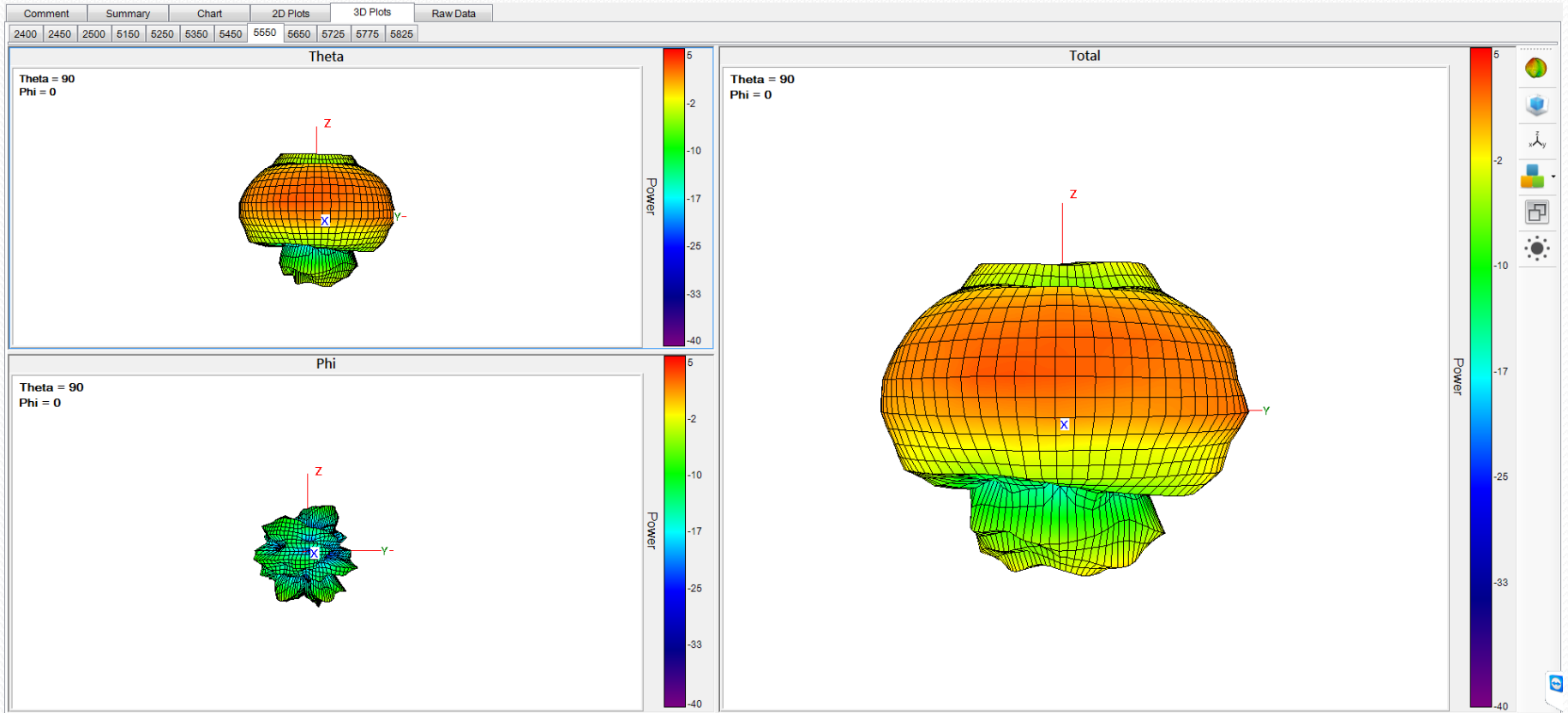


X-Z

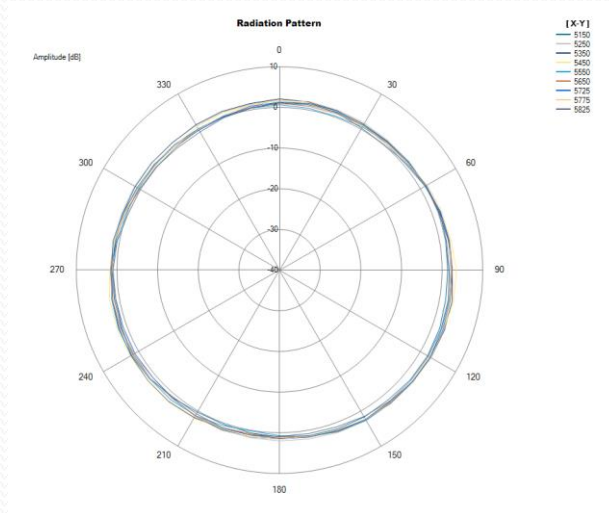


Y-Z

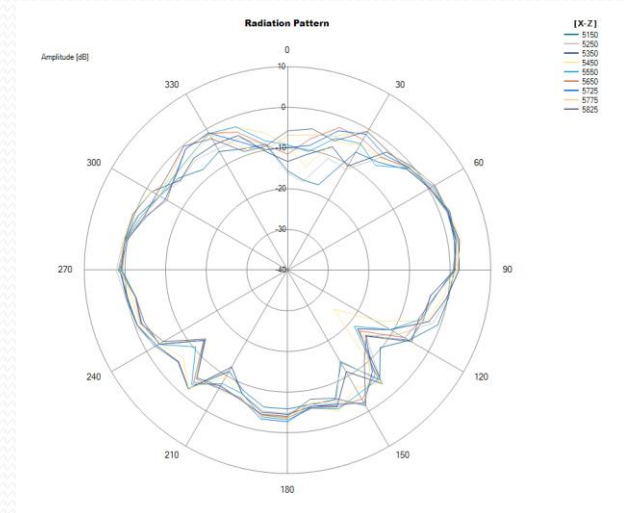
Ant 5G 3D Gain pattern



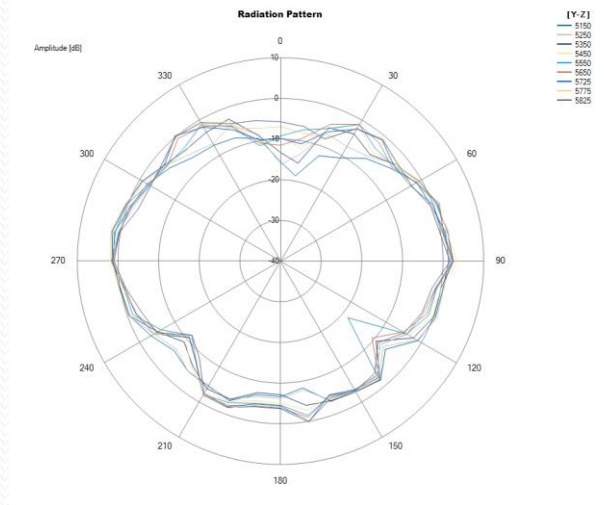
Ant 5G 2D Gain pattern



X-Y



X-Z



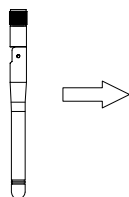
Y-Z

包裝規範書

產品名稱	AD-303N	客戶名稱		產品名稱	
產品料號	R3410110222	客戶料號		製作日期	2020/5/27

產品包裝說明：

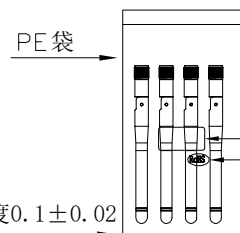
單個產品



內袋包裝說明：

1. PE袋厚 0.1mm, 每PE袋裝入 50 pcs 產品.
2. 每袋需貼 1pc 內袋標籤(PE 袋正中間) 以及 1pc RoHS 標籤, RoHS 標籤需粘貼在內袋標籤的正下方位置.

內袋包裝



PE袋單邊厚度 0.1 ± 0.02

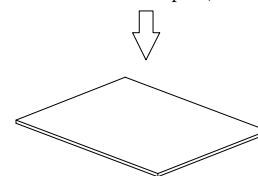
標籤說明：

1. Company : SparkLAN Communications, Inc.
2. Model Name : AD-303
3. Description : Dipole Antenna, 3dBi/3dBi 2.4G/5GHz, RP-SMA(M) connector
4. Part NO : R3410110222
5. Q'TY : 50 PCS

Company	SparkLAN Communications, Inc.
Model Name	AD-303
Description	Dipole Antenna, 3dBi/2dBi 2.4G/5GHz, RP-SMA(M) connector
Part NO	R3410110222
Q'TY	50 PCS

內袋標籤

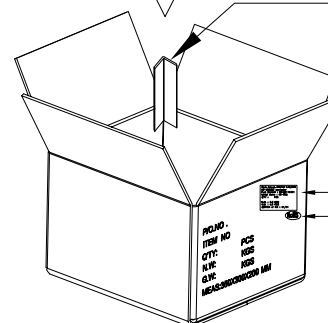
Pack full: 50pcs/ Bag



底層與頂層需放各 1PCS 平卡

四個角需各放 1pc 護角紙

外箱包裝



RoHS 標籤

Dipole Antenna, 3dBi/2dBi 2.4G/5GHz, RP-SMA(M) connector
Part Number: R3410110222
Model No.: AD-303N
QTY: 50 PCS
N.W: 0.3 KGS
G.W: 0.5 KGS
CARTON Q'NO: 01 / 01
RP, No. 287, Sec. 2, Tainpei Road, Taichung District, Taipei 11403, Taiwan
Made in Taiwan

外箱標籤示意

外箱包裝說明：

1. 紙箱底層與頂層需各放 1pc 平卡，紙箱四個角需各放 1pc 護角紙.
2. 外箱需貼 1pc 外箱標籤(規格尺寸面) 右上角位置.
3. RoHS 標籤需外箱標籤右下角外置.
4. 紙箱尺寸：長 350mm*寬 300mm*高 200mm.
5. 每箱裝 20 袋產品，共計裝 1000pcs 產品.
6. 箱內若有空隙需用填充材填實，避免晃動.
7. 實際包裝會依出貨數量進行調整.