



# Tekfun Co., Ltd.

## SPECIFICATION FOR APPROVAL

**CUSTOMER** \_\_\_\_\_

**DESCRIPTION** 800-960/1710-2170/2400-2700MHz 4G LTE Monopole Antenna with Swivel SMA Male, 2-3dBi

**PART NO.** W34-S-V2 BLACK OR WHITE

**DATE** \_\_\_\_\_

<b>DESIGNER</b>		<b>DIRECTOR</b>	
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Approved by Customer/date:

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## **ANTENNA SPECIFICATIONS FOR APPROVAL**

### **1 GENERAL DESCRIPTION**

- 1.1 Type No. : W34-S-V2 for black antenna; W34-S-V2-W for white antenna  
 1.2 Customer P/N :

### **2 DESCRIPTION & APPLICATION**

This antenna assembly is designed for use in 800-960 / 1710-2170/ 2400-2700MHz

### **3 ELECTRICAL CHARACTERISTICS**

3.1 Antenna type:	Monopole Antenna
	Tested by ground size 180*140mm
3.2 Frequency Rang:	800-960 / 1710-2170/ 2400-2700MHz
3.3 V.S.W.R:	< 2.5 (Page 4 and Page 5)
3.4 Impedance:	50 OHM
3.5 Type of Radiation:	Omni-directional
3.6 Electrical Wave:	1/2 wave
3.7 Gain:	2-3 dBi (Gain Table: Page 6)
3.8 Connector:	SMA Male
3.9 Size:	71 x 9.3mm
3.10 Color:	Black (W34-S-V2)      White (W34-S-V2-W)
3.11 Antenna Material	Polylac: PA-765A(+) UL No: E56070

### **4 ENVIRONMENTAL CHARACTERISTICS**

- 4.1 Operating temperature range -40°C to + 70°C

### **5 QUALIFICATION TESTING: poly bag/ each**



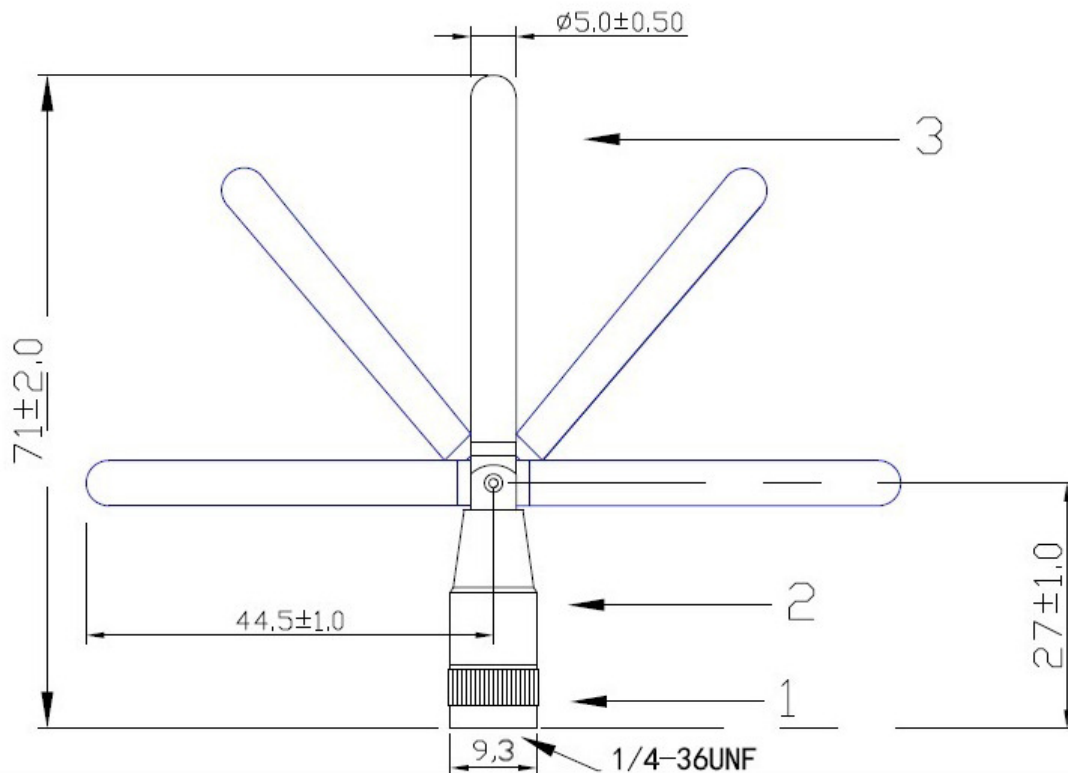
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## ANTENNA SPECIFICATIONS FOR APPROVAL

### 7 ANTENNA PHOTO & DRAWING



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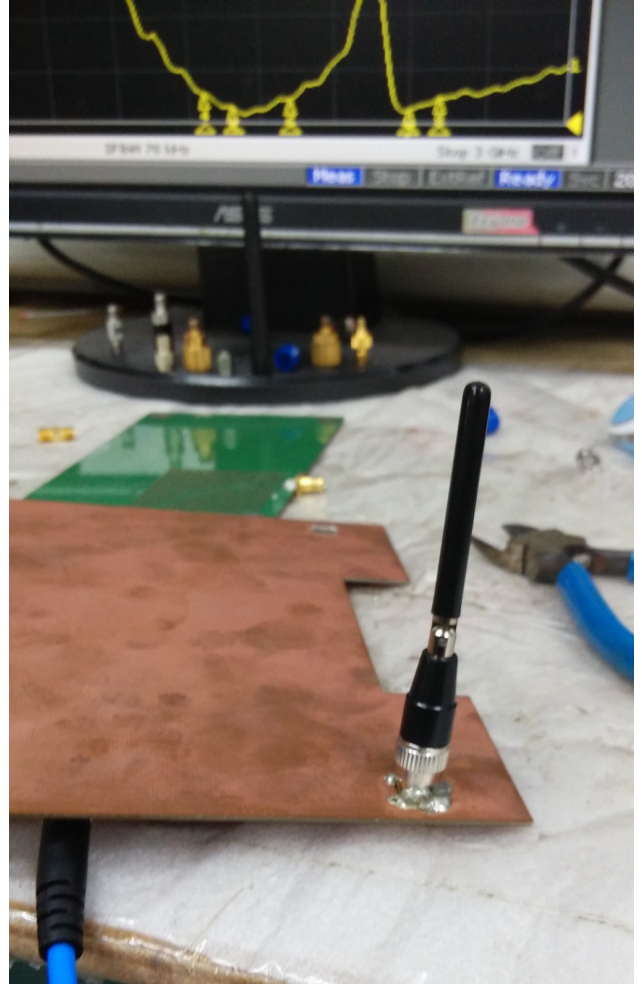
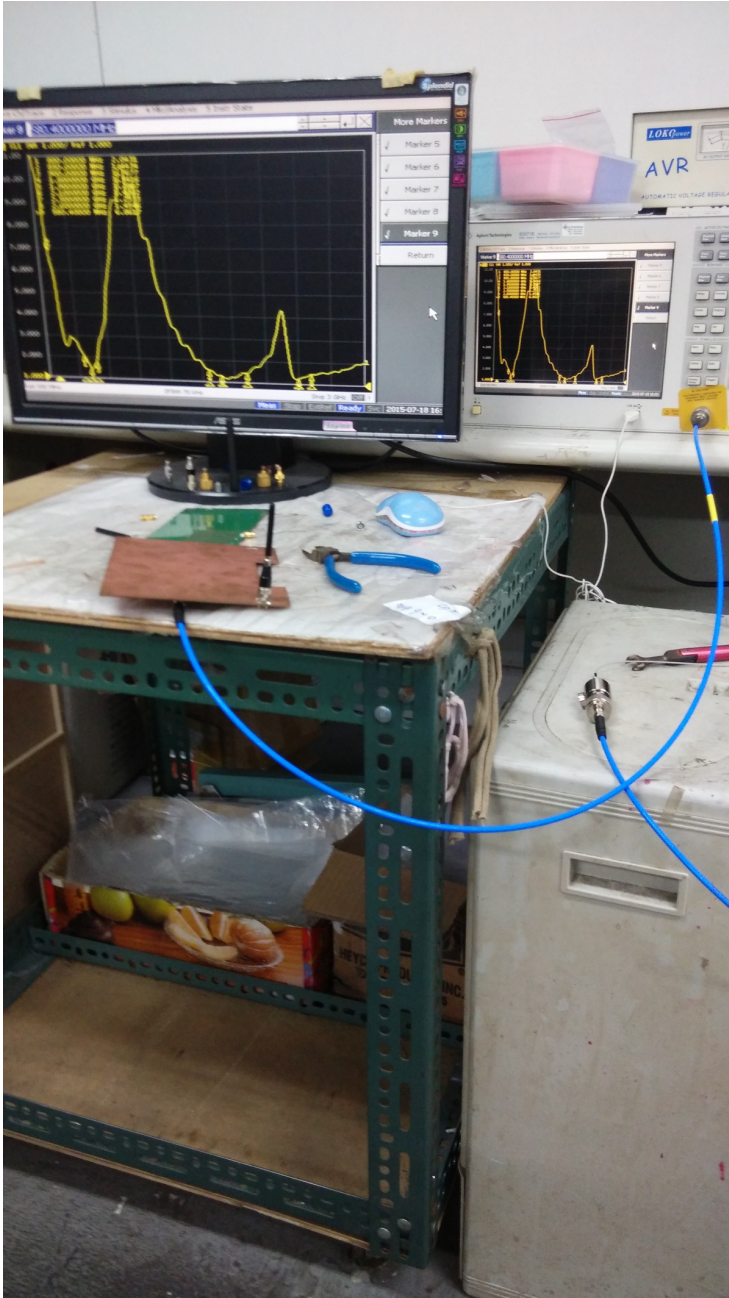
Unit: mm



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## ANTENNA SPECIFICATIONS FOR APPROVAL

### 8 TEST- ENVIREMENT

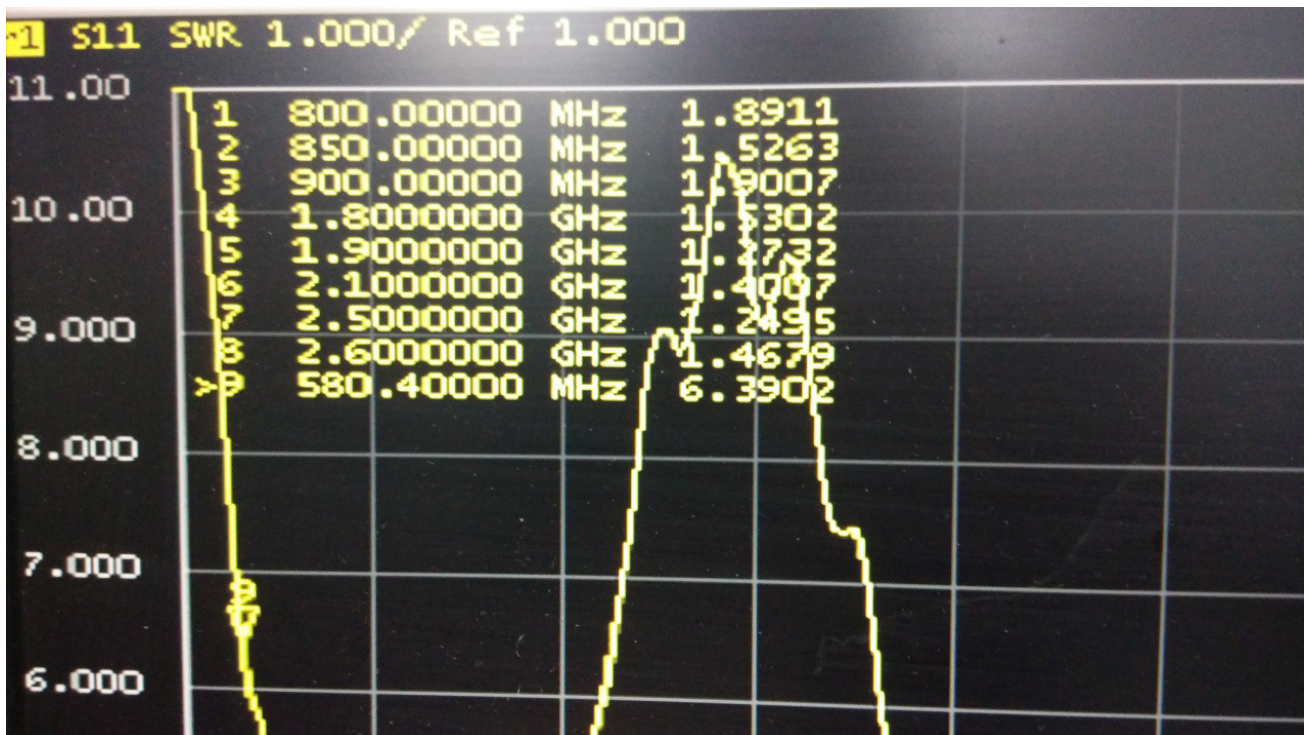
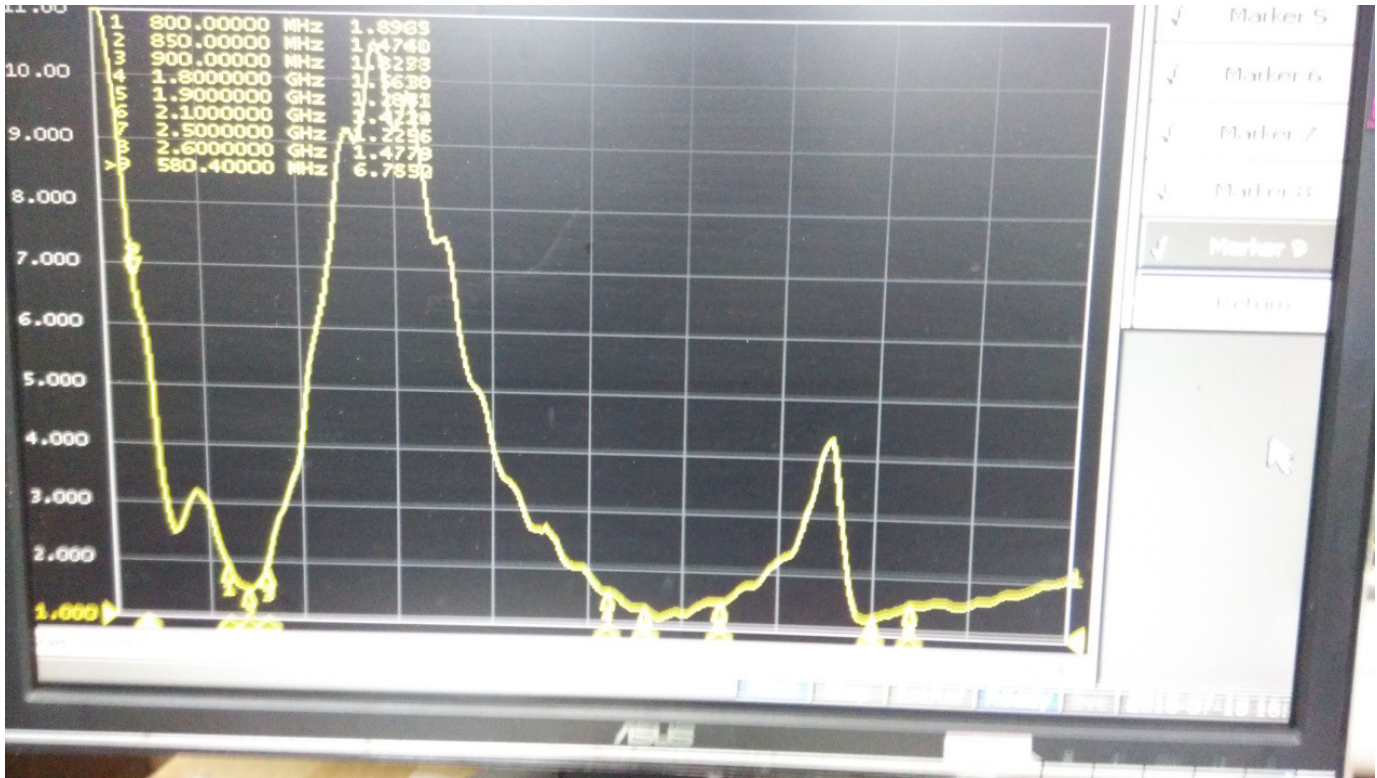




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## ANTENNA SPECIFICATIONS FOR APPROVAL

### 9 TEST- VSWR & Return Loss



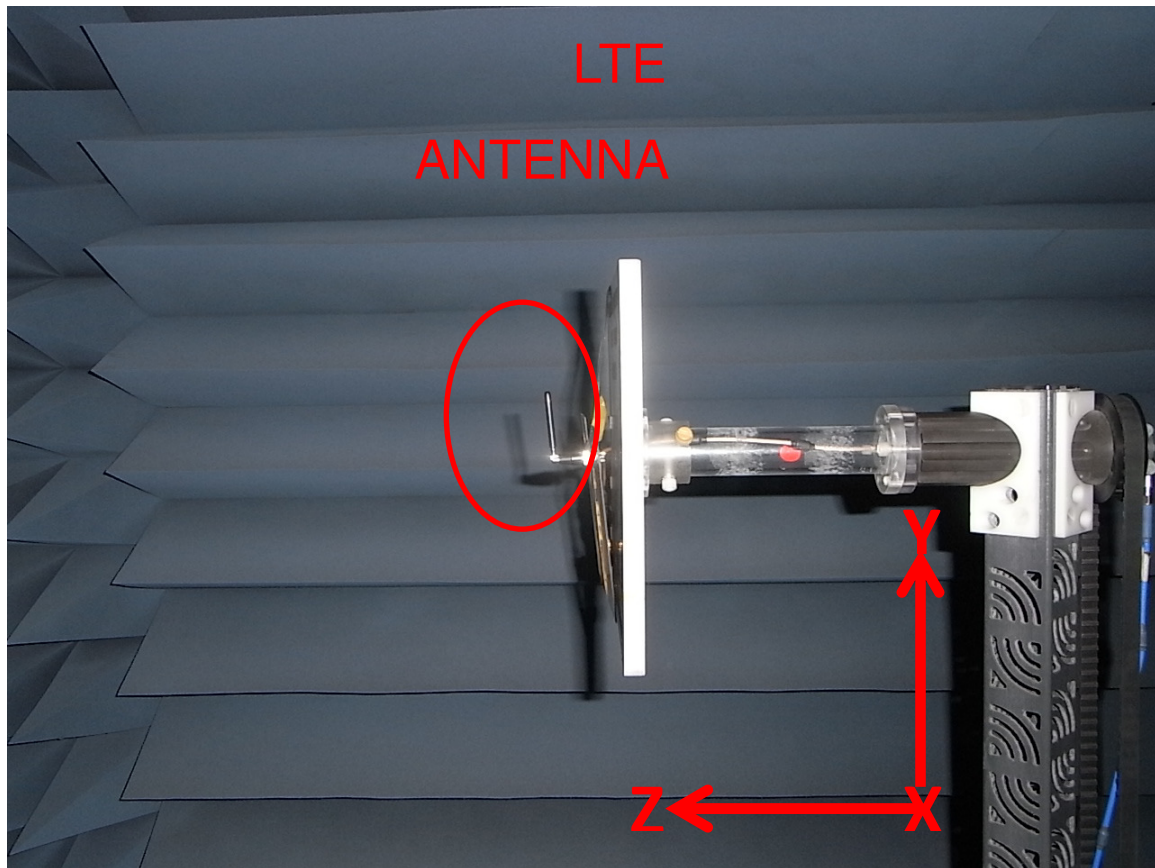


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## ANTENNA SPECIFICATIONS FOR APPROVAL

### 10 GAIN

#### Antenna Placement



#### GAIN TABLE

Frequency	800	850	900	1710	1755	2110	2155	2500	2600	2690
Efficiency (dB)	-1.19	-1.38	-1.50	-1.37	-1.50	-1.33	-1.90	-1.35	-1.41	-1.13
Efficiency (%)	75.98	72.83	70.87	72.96	70.81	73.50	64.47	73.34	72.24	77.09
Gain (dBi)	2.49	2.24	2.06	3.42	3.44	3.04	1.22	2.86	2.10	2.37

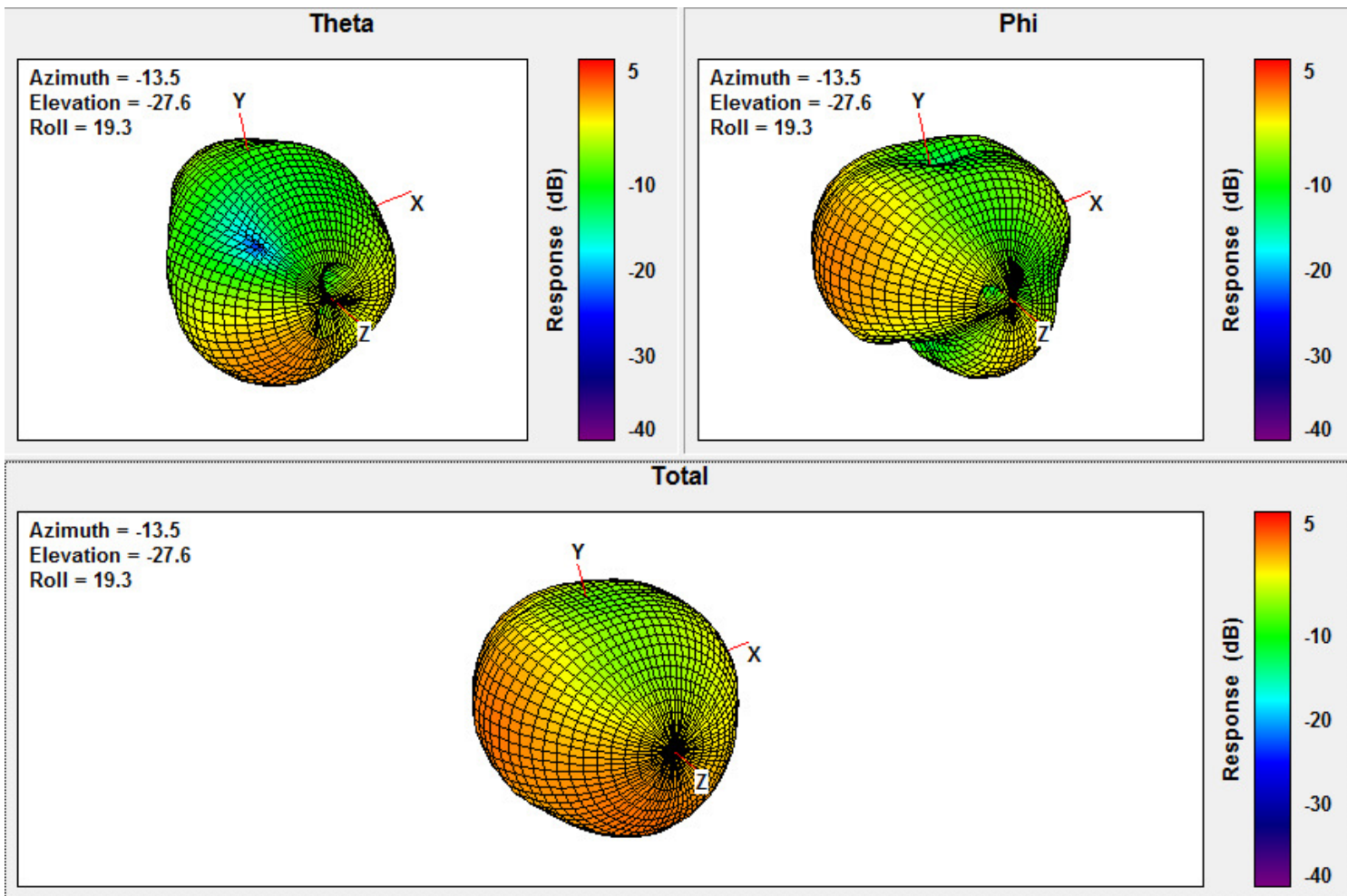



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## ANTENNA SPECIFICATIONS FOR APPROVAL

### Antenna Gain Pattern 850MHz

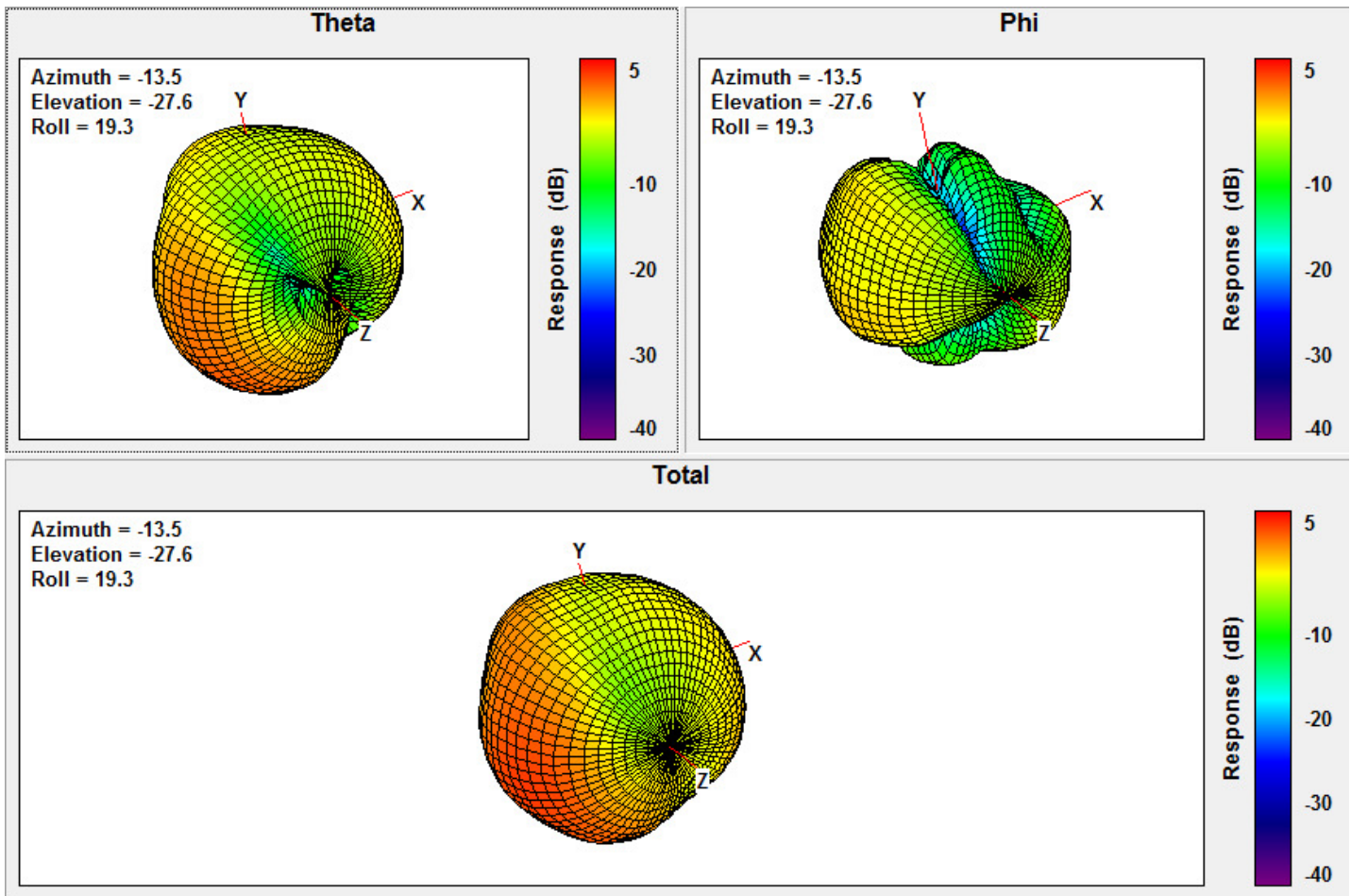



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## ANTENNA SPECIFICATIONS FOR APPROVAL

### Antenna Gain Pattern 1755MHz



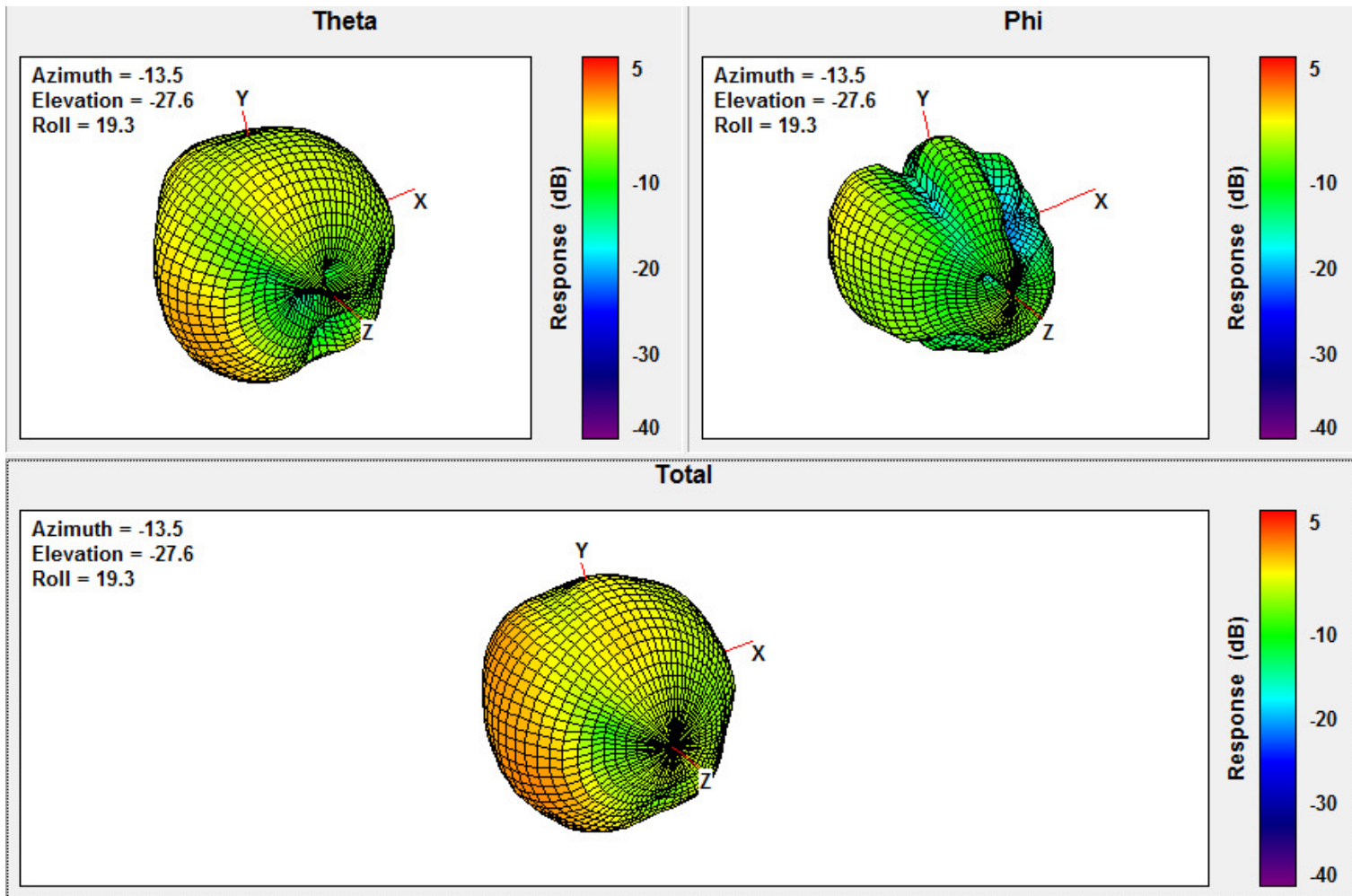



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## ANTENNA SPECIFICATIONS FOR APPROVAL

### Antenna Gain Pattern 2155MHz




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## ANTENNA SPECIFICATIONS FOR APPROVAL

### Antenna Gain Pattern 2600MHz

