



CHINMORE INDUSTRY CO.,LTD

Specification

1. 2-in-1 Combined Antenna for GPS and GSM(R30 Series)
2. *Chinmore's* No: GP-GPSGSMR30-030
3. Frequency for GPS:1575.42MHz
Frequency for GSM: 900 MHz /1800 MHz
4. VSWR for GPS: 2.0:1
5. VSWR for GSM: 1.8:1
6. Gain for GPS: 30 dBi
7. Gain for GSM: 0 dBi
8. Impedance: 50 Ω
9. Cable: RG-174 3M
10. Connector : SMA (M) ST

✘RoHS Compliant

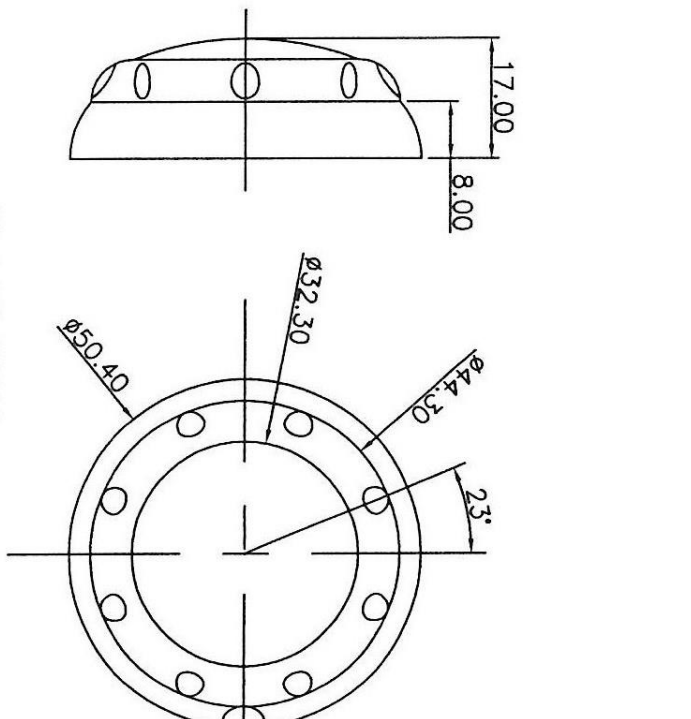
✘ISO 9001 & ISO 14001

Cable	RG174/U
OD	ø2.7±0.15
OD	ø2.7±0.15
Cover	Black

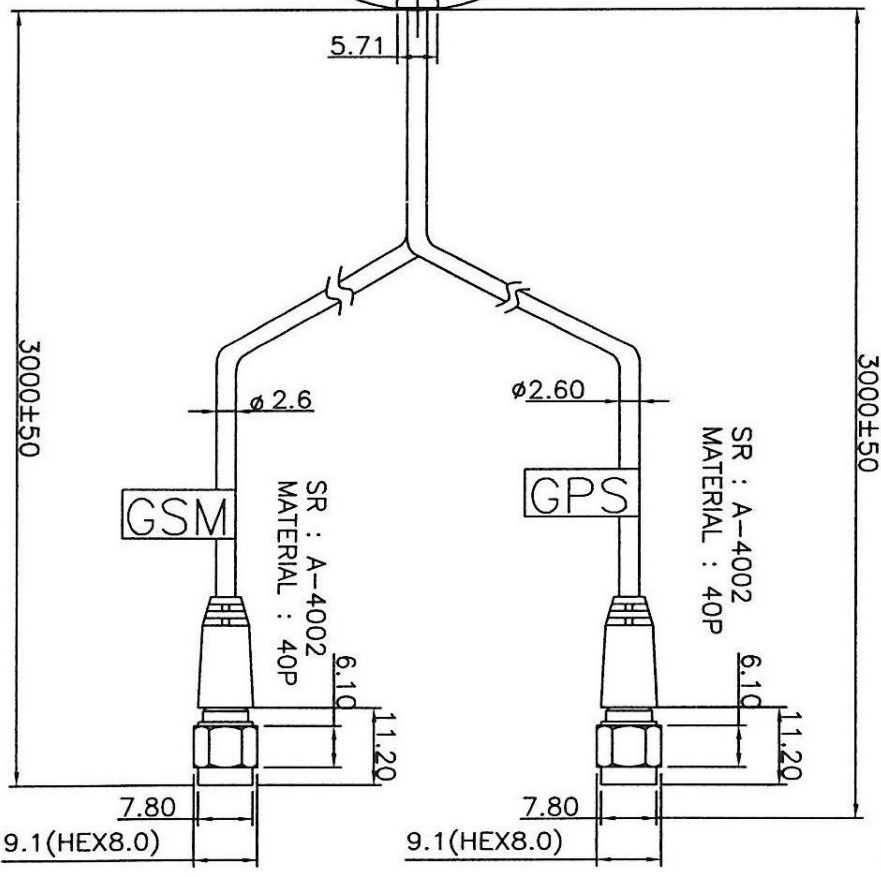
GPS	SMA M(Gold)
GSM	SMA M(Gold)
Frequency	900/1800

ROHS

ISO 9001
ISO 14001



SR : MS-B1113
Material : ABS



NO		DESCRIPTION	MATERIAL	FINISH	QTY
Part NO		GP-GPSSGSMR30-030			
Material:		Material: 竣茂工業有限公司 Chimmore Industry CO.,LTD			
Drawer	Design	Approv	Tolerance	Unit:	TITLE
機械	97.5.23	工程	X=±0.5 XX=±0.2 XXX=±0.05	mm	GPS+GSM+R30
王浩輝		蔡文輝		Ver: A	Scale 1:1
File NO: QR0402		Drawing NO		248-0010	
Model NO		B45ANT-7			

Patch

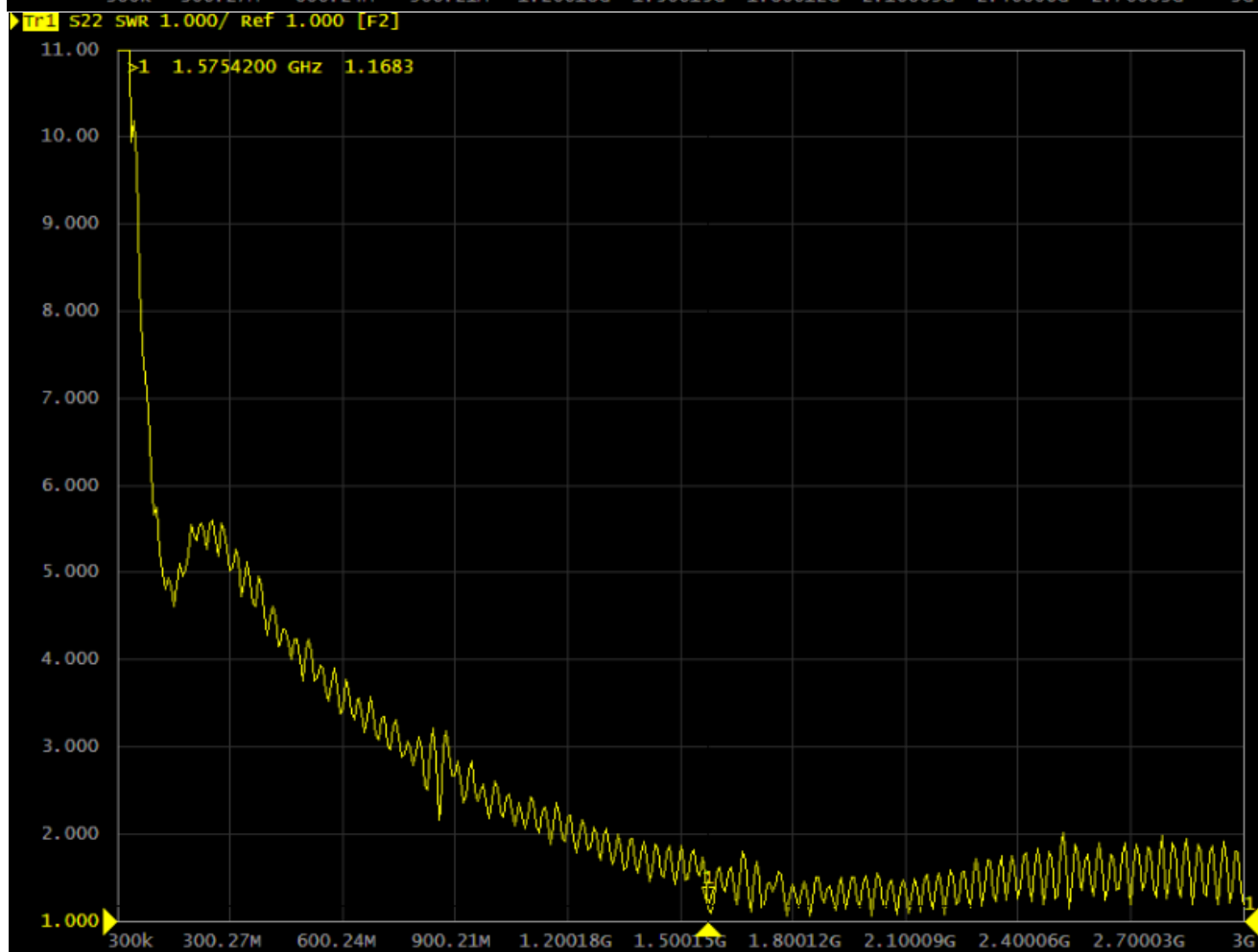
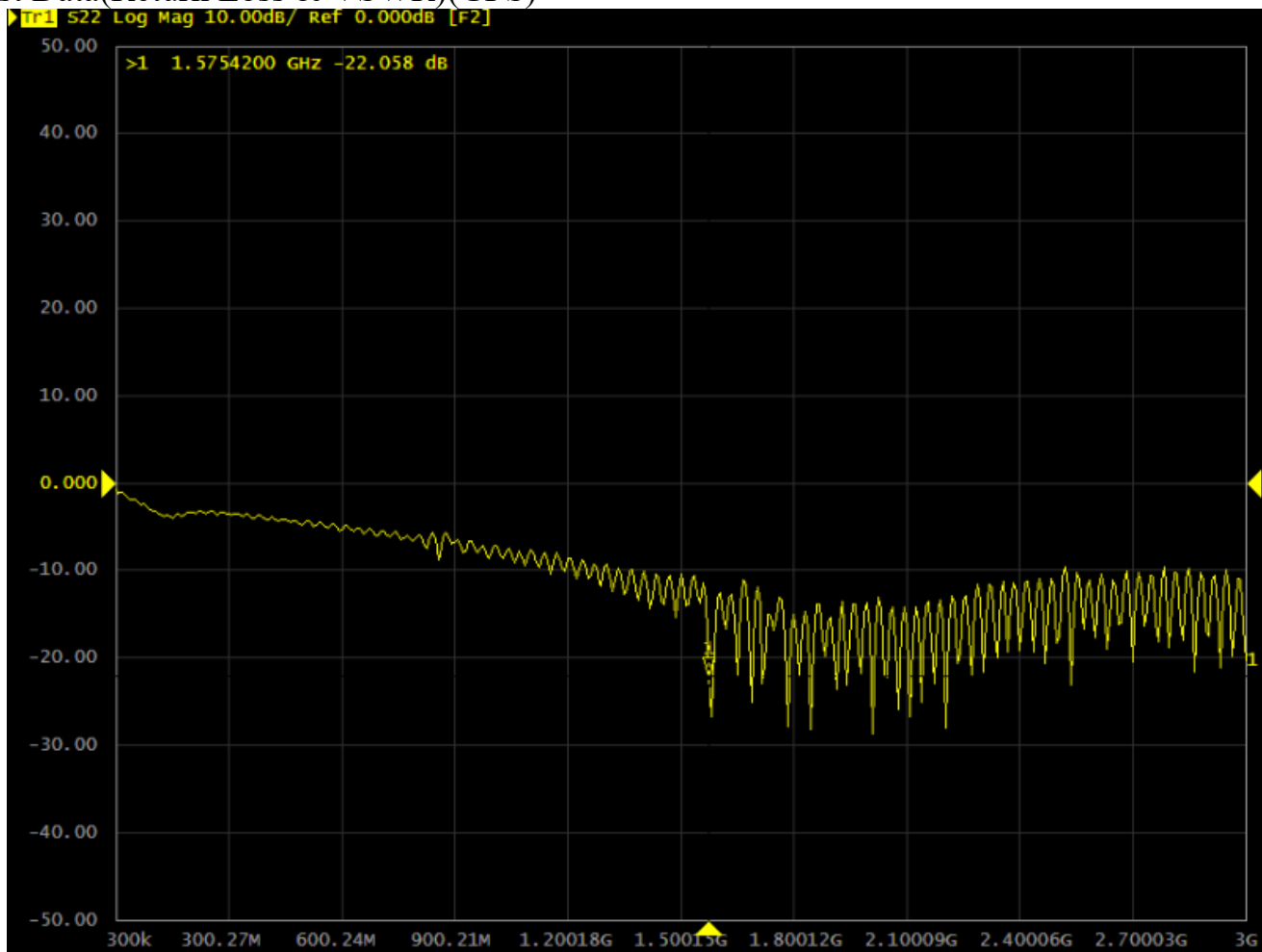
Characteristics	Specification
Center Frequency	1575.42±1.023 MHz (when covered with a radome and measured by LNA ground plane)
Bandwidth (10dB return loss)	10 MHz min
Gain at Zenith	1 dBic typ
Gain at 10° elevation	- 5 dBic typ
Polarization	R.H.C.P
Axial Ratio	1.0 dB typ

Filter / LNA

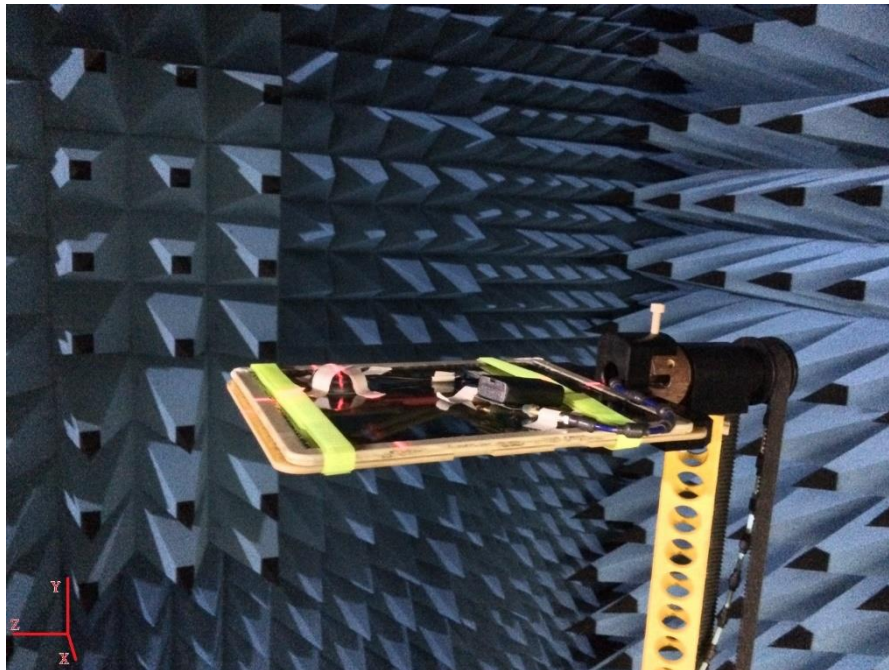
Characteristics	Specification
Center Frequency	1575.42 ±1.023 MHz
Gain	30~37dB (ps:3v / 32dB)
Noise Figure	1.5 dB typ (ps: 3v / 1.5dB)
Filer Out band attenuation	Dielectric filter 7dB min fo±20MHz 20dB min fo±50MHz 30dB min fo±100MHz (fo=1575.42MHz)
Output V.S.W.R	2.0 max
Voltage	DC = 2.5~5.5V
Current	DC = 8~23mA (ps: 3v / 10mA)

Frequency	1575.42 MHz
Return Loss	-22.05 dBi
VSWR	1.16
Gain	29.59 dBi

Test Data(Return Loss & VSWR)(GPS)

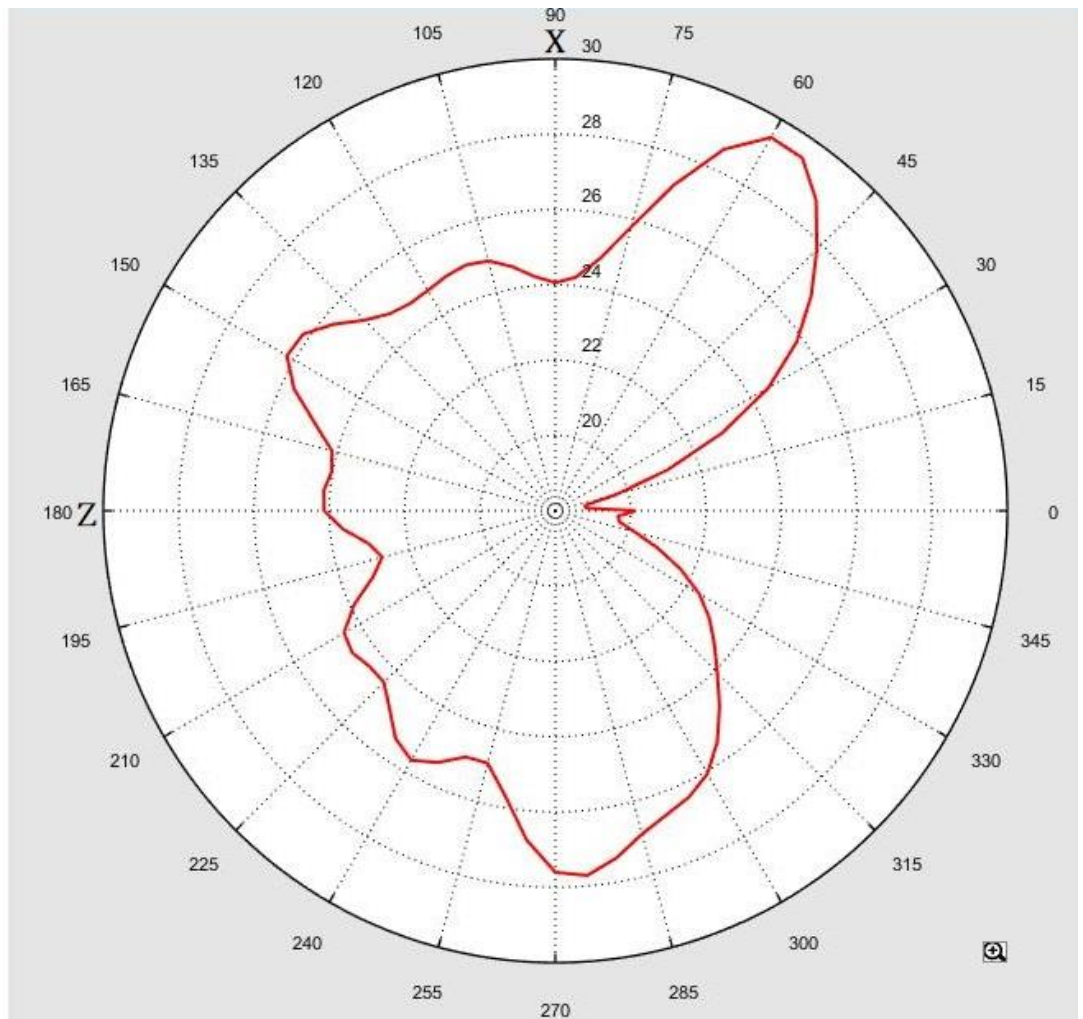


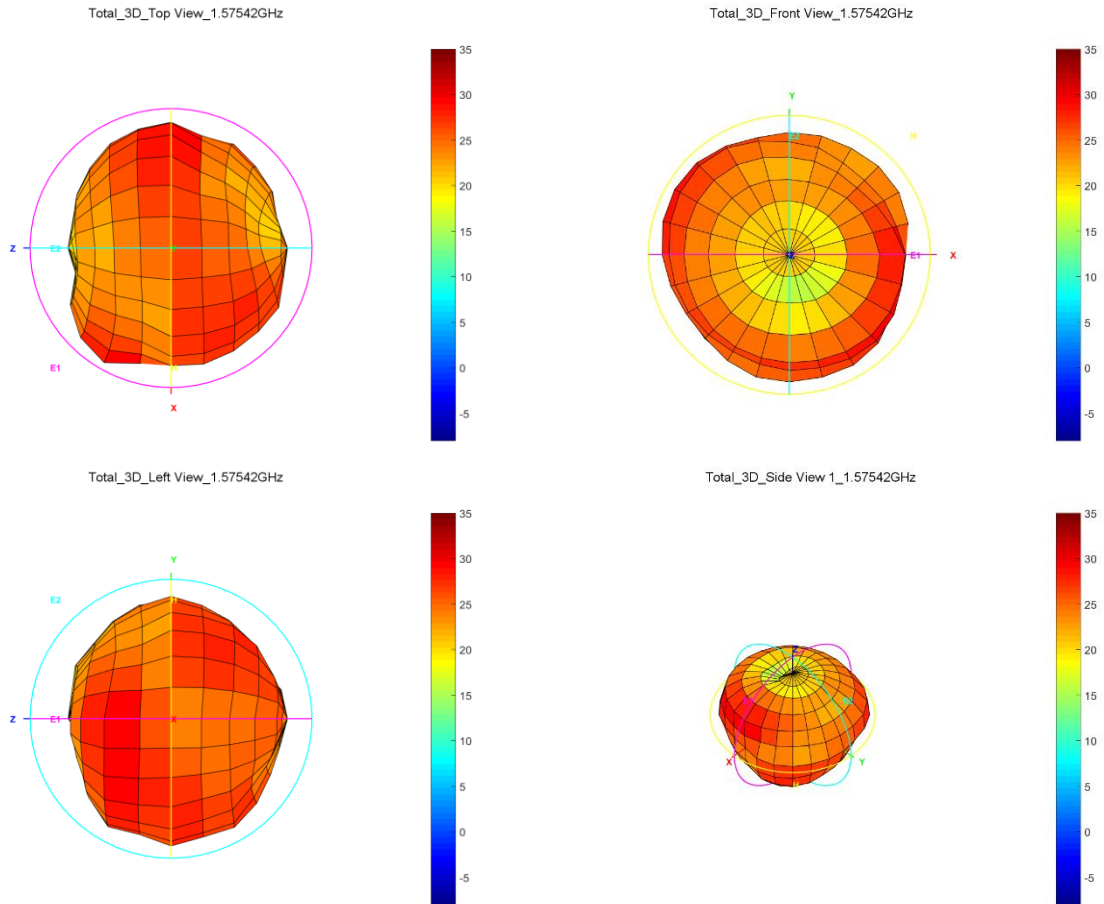
3D Test Photo



3D Test Data

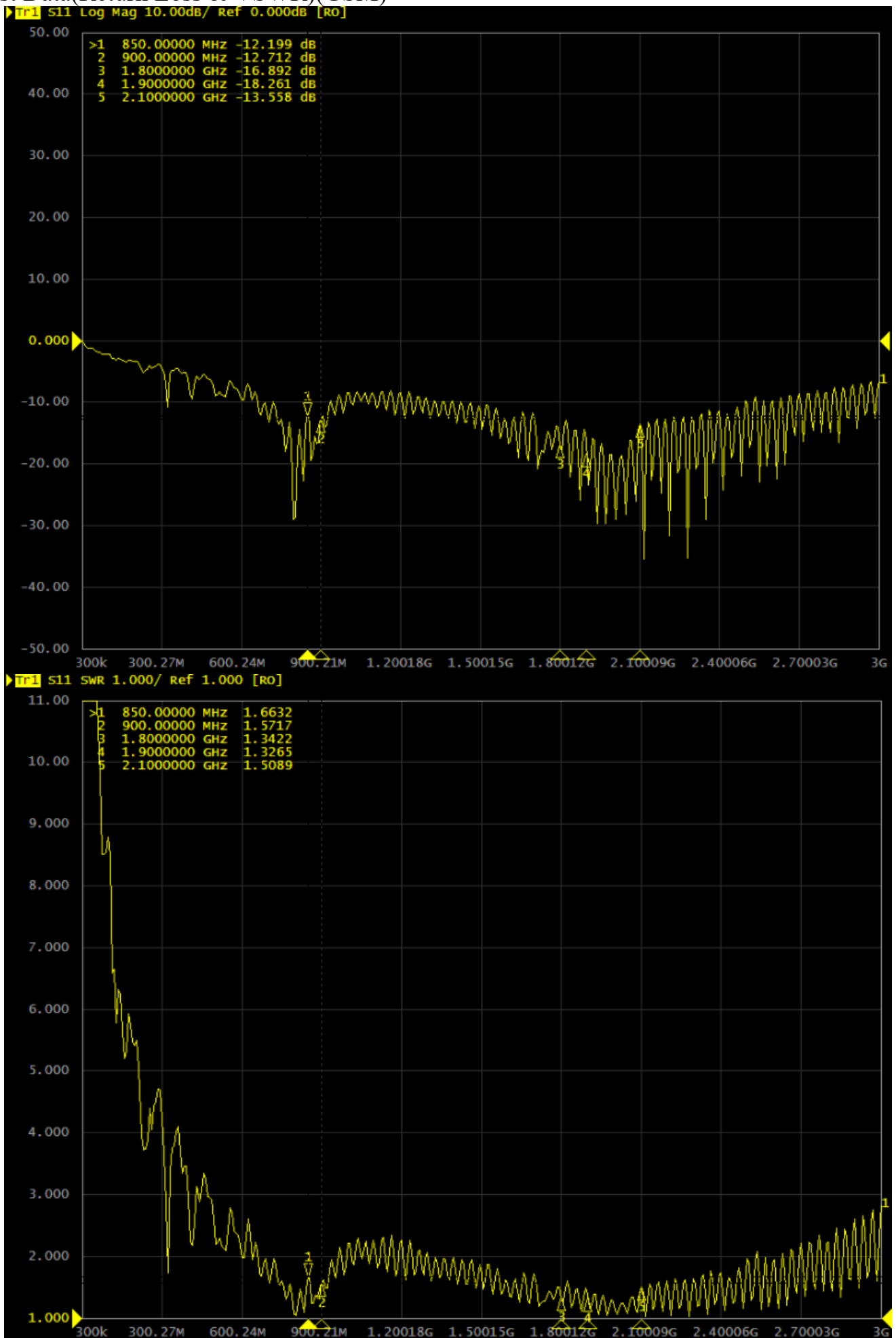
Freq. / Chan.	Color
1.57542GHz	Red



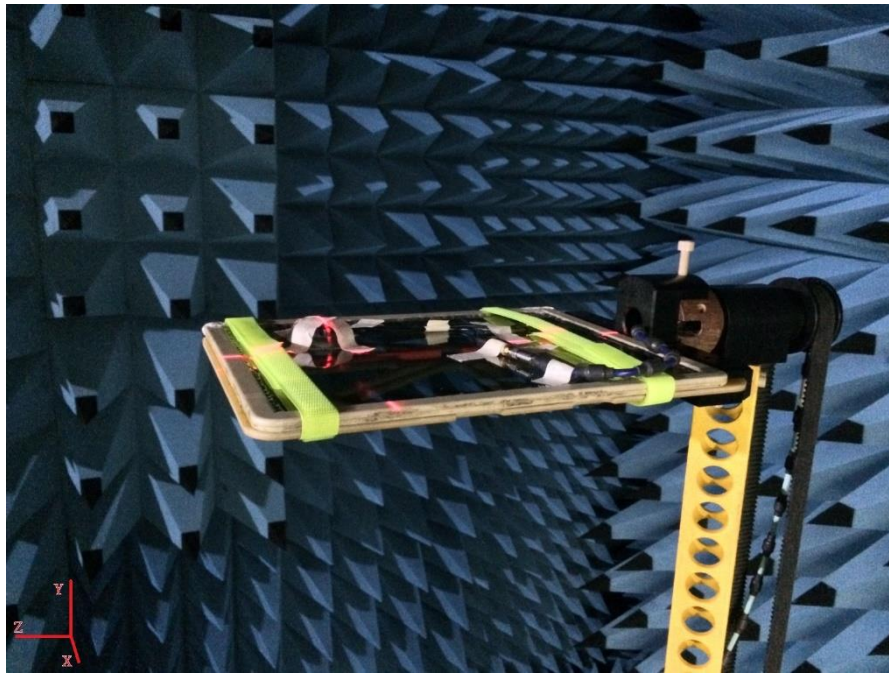


Frequency (MHz)	Return Loss (dB)	VSWR	Efficiency (%)	Gain (dBi)
850	-12.19	1.66	32.58	-0.59
900	-12.71	1.57	39.17	0.14
1800	-16.89	1.34	27.1	-2.01
1900	-18.26	1.32	16.87	-1.74
2100	-13.55	1.50	55.98	5.2

Test Data(Return Loss & VSWR)(GSM)

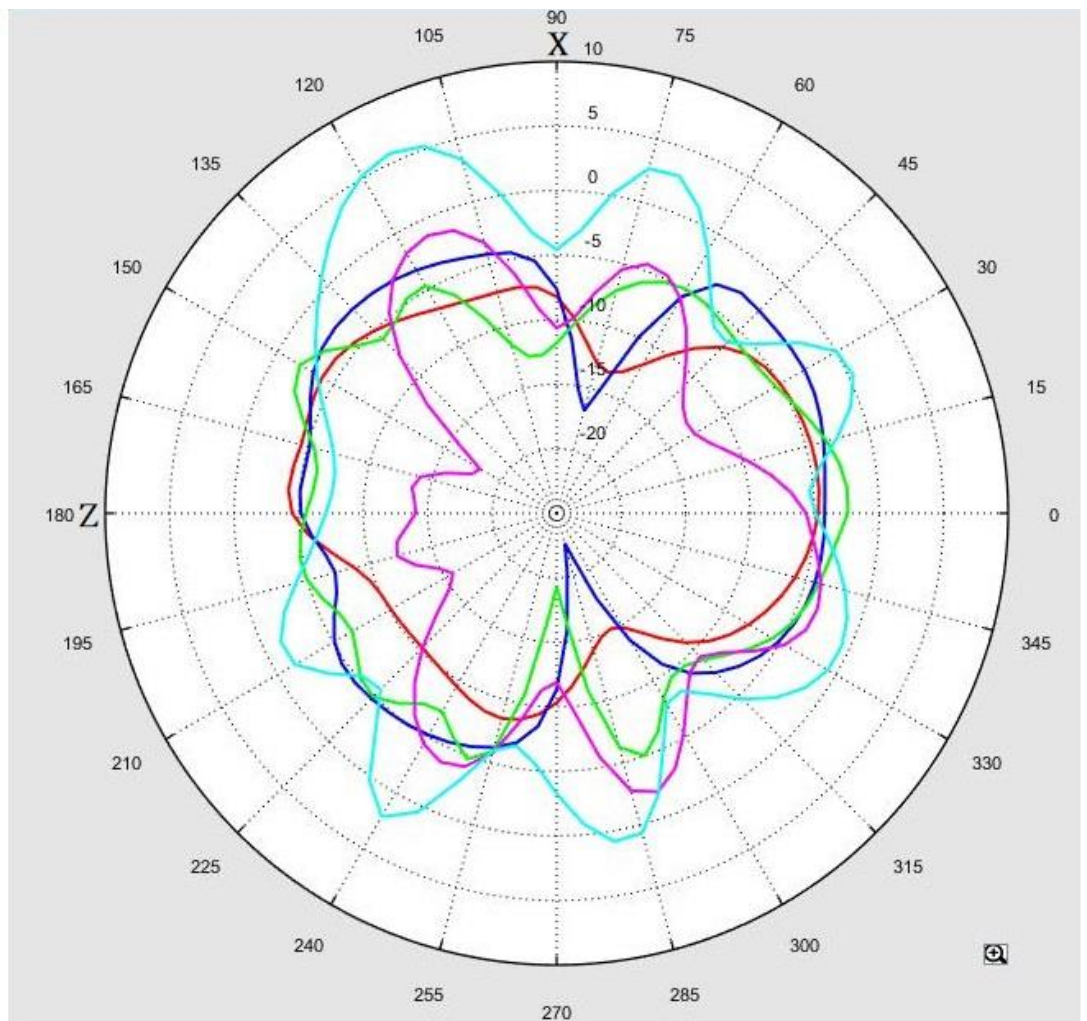


3D Test Photo

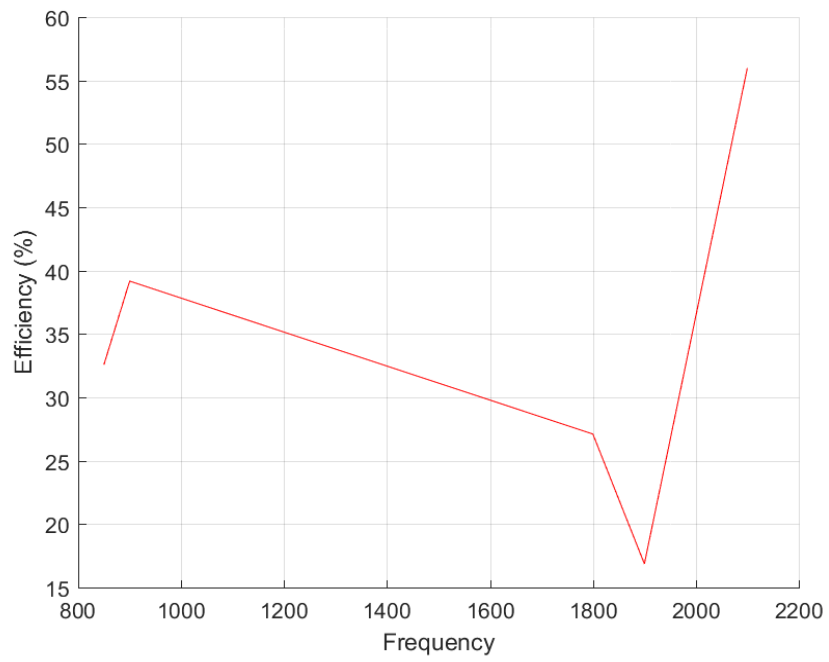


3D Test Data

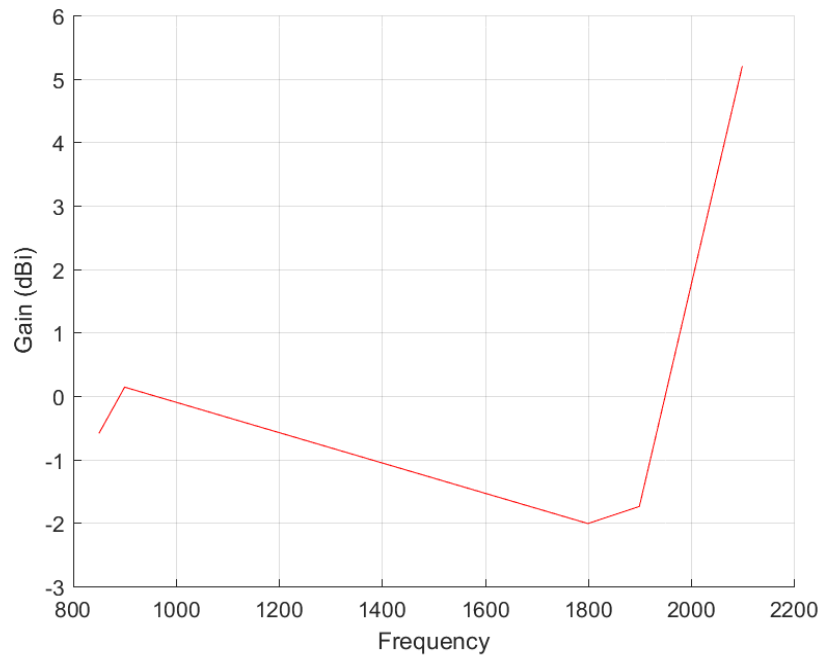
Freq. / Chan.	Color
850MHz	Red
900MHz	Blue
1.8GHz	Green
1.9GHz	Magenta
2.1GHz	Cyan



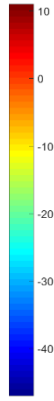
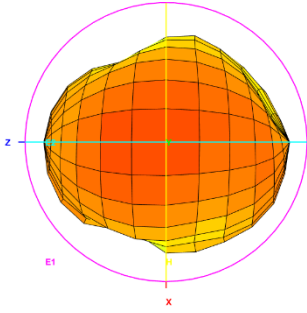
Total_Efficiency (%)



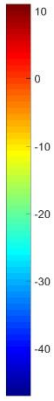
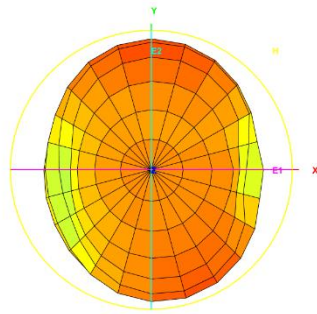
Total_Gain (dBi)



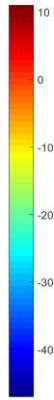
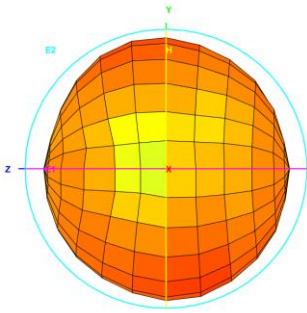
Total_3D_Top View_850MHz



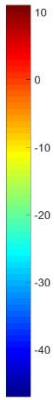
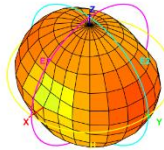
Total_3D_Front View_850MHz



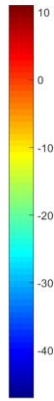
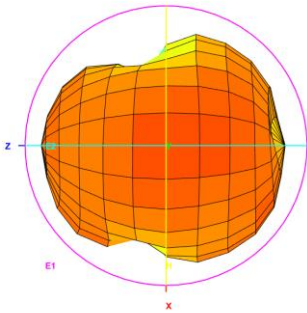
Total_3D_Left View_850MHz



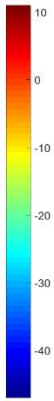
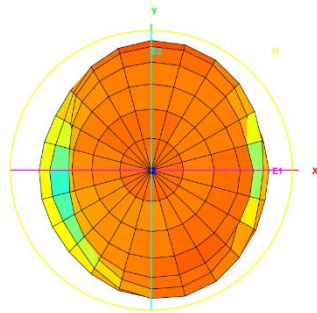
Total_3D_Side View 1_850MHz



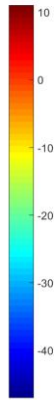
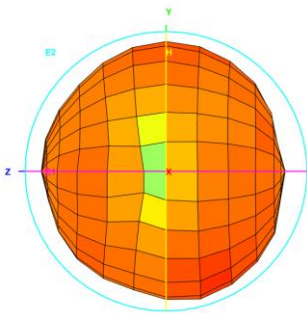
Total_3D_Top View_900MHz



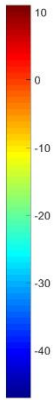
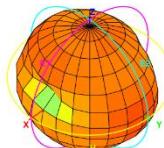
Total_3D_Front View_900MHz



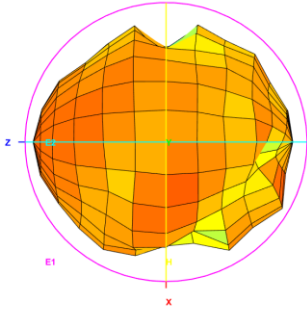
Total_3D_Left View_900MHz



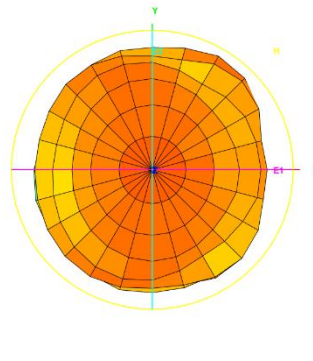
Total_3D_Side View 1_900MHz



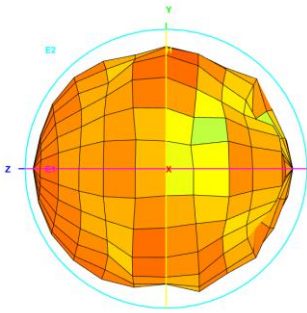
Total_3D_Top View_1.8GHz



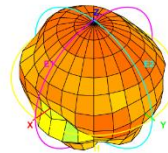
Total_3D_Front View_1.8GHz



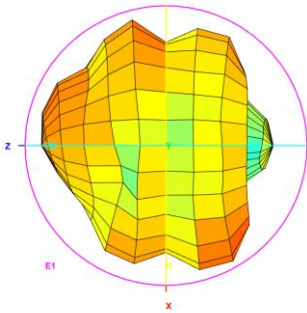
Total_3D_Left View_1.8GHz



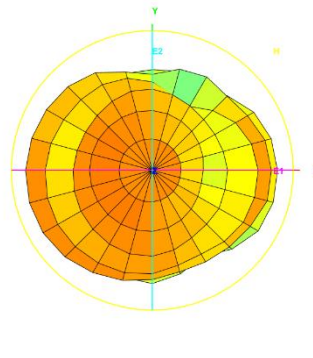
Total_3D_Side View_1.8GHz



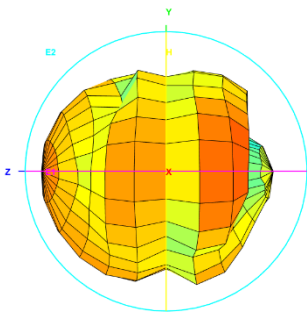
Total_3D_Top View_1.9GHz



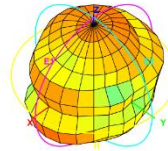
Total_3D_Front View_1.9GHz



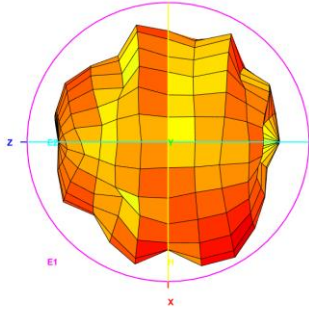
Total_3D_Left View_1.9GHz



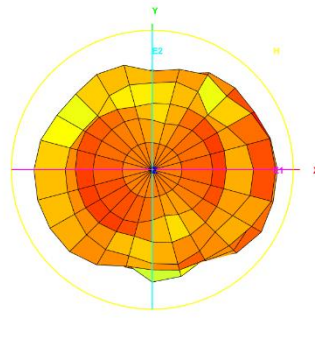
Total_3D_Side View_1.9GHz



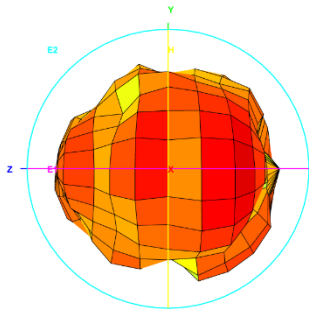
Total_3D_Top View_2.1GHz



Total_3D_Front View_2.1GHz



Total_3D_Left View_2.1GHz



Total_3D_Side View 1_2.1GHz

