



CHINMORE INDUSTRY CO.,LTD

Specification

1. 2-in-1 Combined Antenna for GPS and GSM
2. *Chinmore's* No: GP-GPSGSMR30-031
3. Frequency for GPS:1575.42MHz
Frequency for GSM: 824~960 MHz /1710~2170 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 :FME F and SMA (M) ST

✧RoHS Compliant

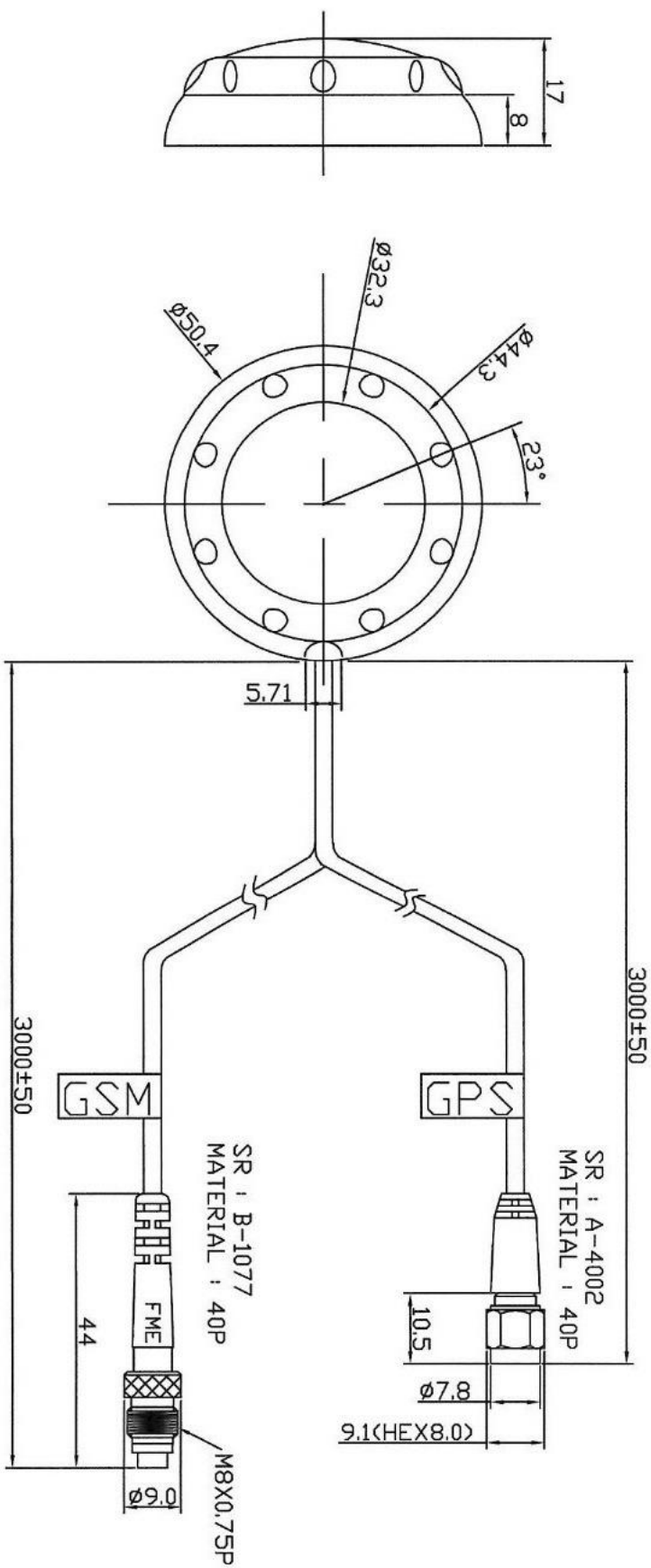
✧ISO 9001 & ISO 14001

	Cable	OD	Cover	Connector	Frequency	Impedance	V.S.W.R		Gain
							2.0:1	30 dB	
GPS	RG174/U	$\phi 2.7 \pm 0.15\text{mm}$	Black (黑)	SMA M(Gold)鍍金	1575.42MHz	50 Ω	1.8:1	0 dB	
GSM				FME F(NI)鍍鍍	824~960MHz 1710~2170MHz				

ROHS

ISO 9001

ISO 14001



				Material		Treatment		竣茂工業有限公司				Chinmore Industry CO.,LTD	
				Drawer	Design	Approv	Tolerance	Unit	mm		TITLE		
							X=±0.5 X=±0.2 XX=±0.1 XXX=±0.05			Veri A	Scale	Model NO	
								File NO	QR0402		Drawing NO	100-22081-004	
NO	DESCRIPTION			MATERIAL / FINISH			Q'TY						
Part NO	GP-GPSGSMR30-031												

Patch

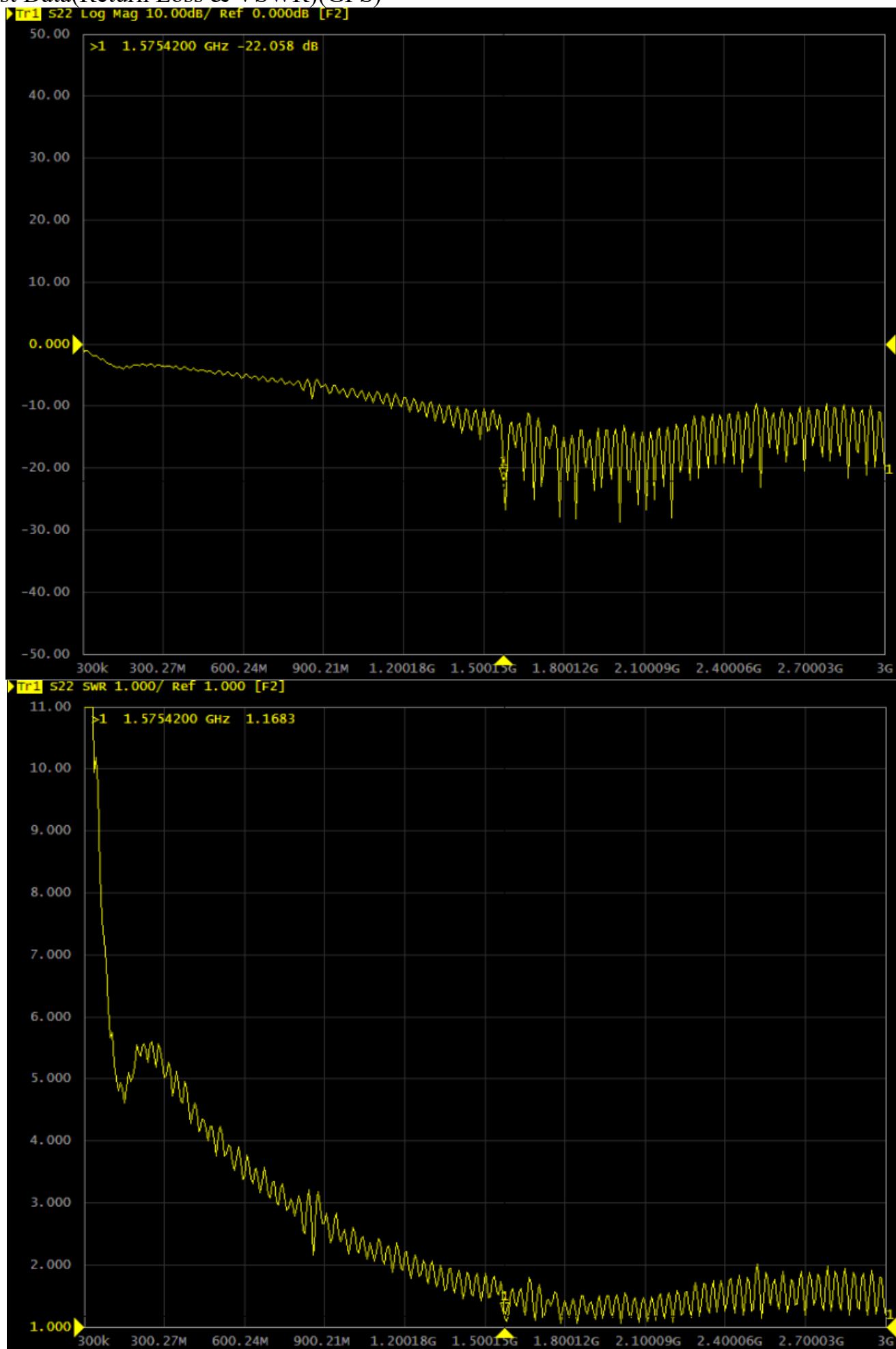
Characteristics	Specification
Center Frequency	1575.42±1.023 MHz (when covered with a radome and measured by LNA ground plane)
Bandwidth (10dB return loss)	10 MHz min
Gain at Zenith	1 dBic typ
Gain at 10° elevation	- 5 dBic typ
Polarization	R.H.C.P
Axial Ratio	1.0 dB typ

Filter / LNA

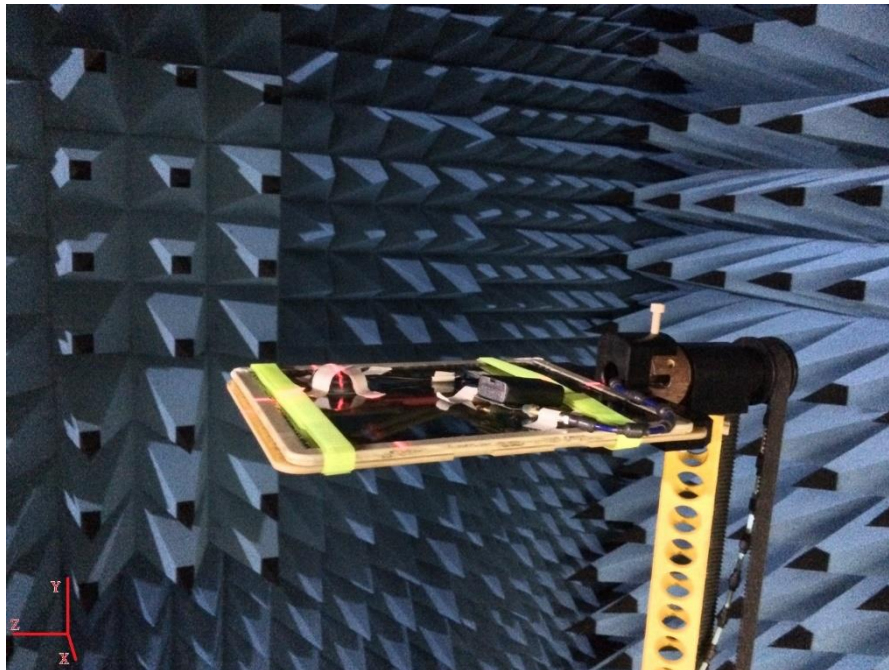
Characteristics	Specification
Center Frequency	1575.42 ±1.023 MHz
Gain	30~37dB (ps:3v / 32dB)
Noise Figure	1.5 dB typ (ps: 3v / 1.5dB)
Filer Out band attenuation	Dielectric filter 7dB min fo±20MHz 20dB min fo±50MHz 30dB min fo±100MHz (fo=1575.42MHz)
Output V.S.W.R	2.0 max
Voltage	DC = 2.5~5.5V
Current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

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

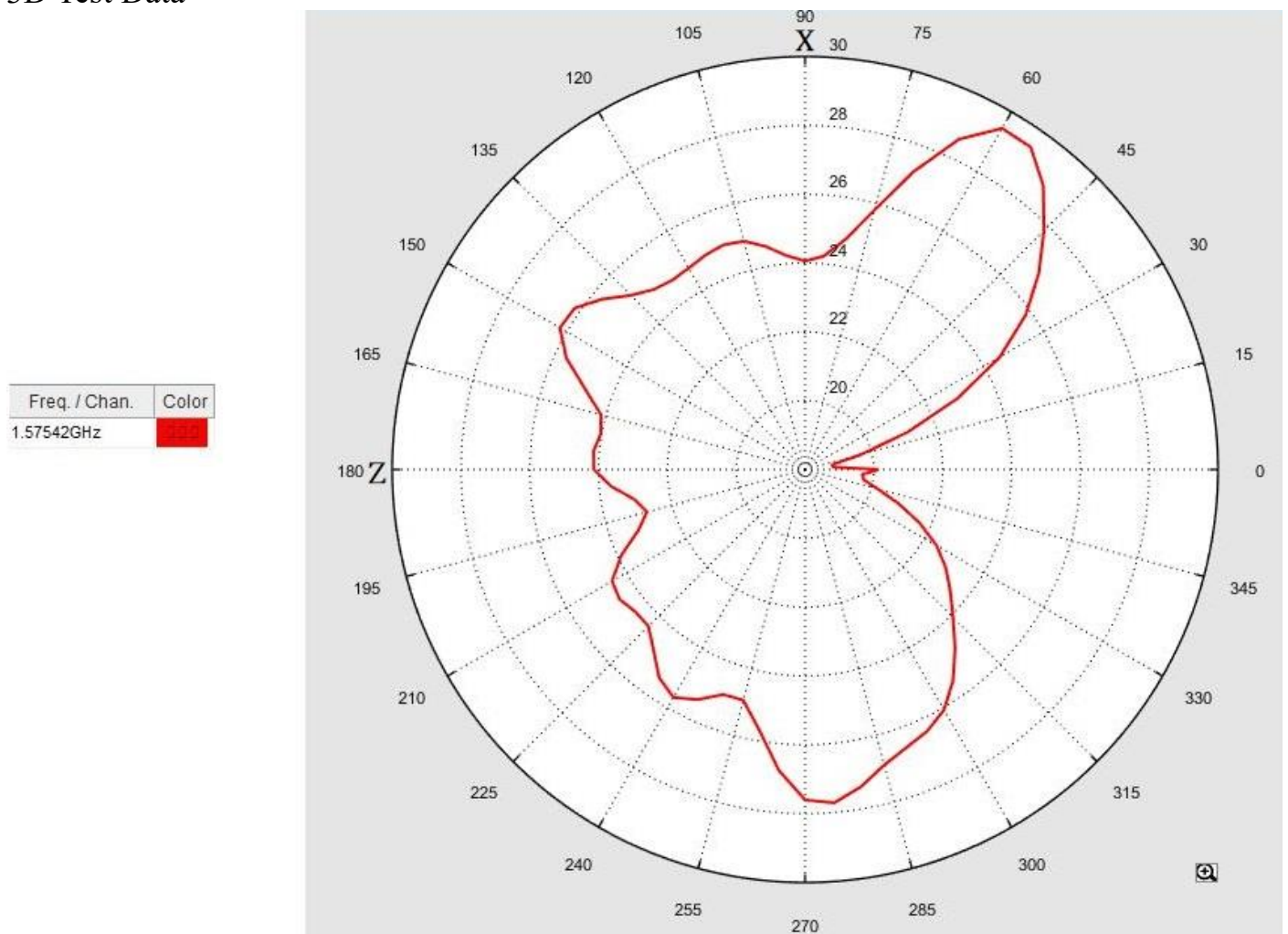
Test Data(Return Loss & VSWR)(GPS)

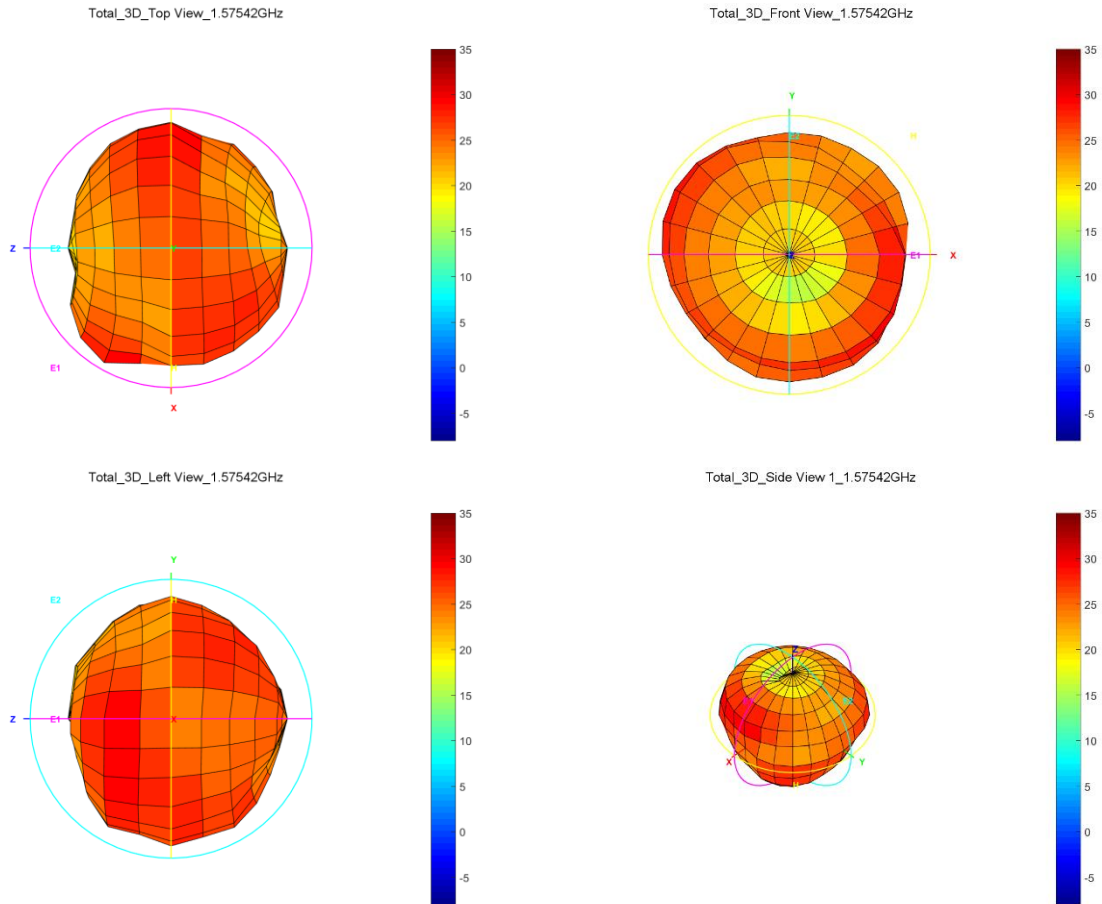


3D Test Photo



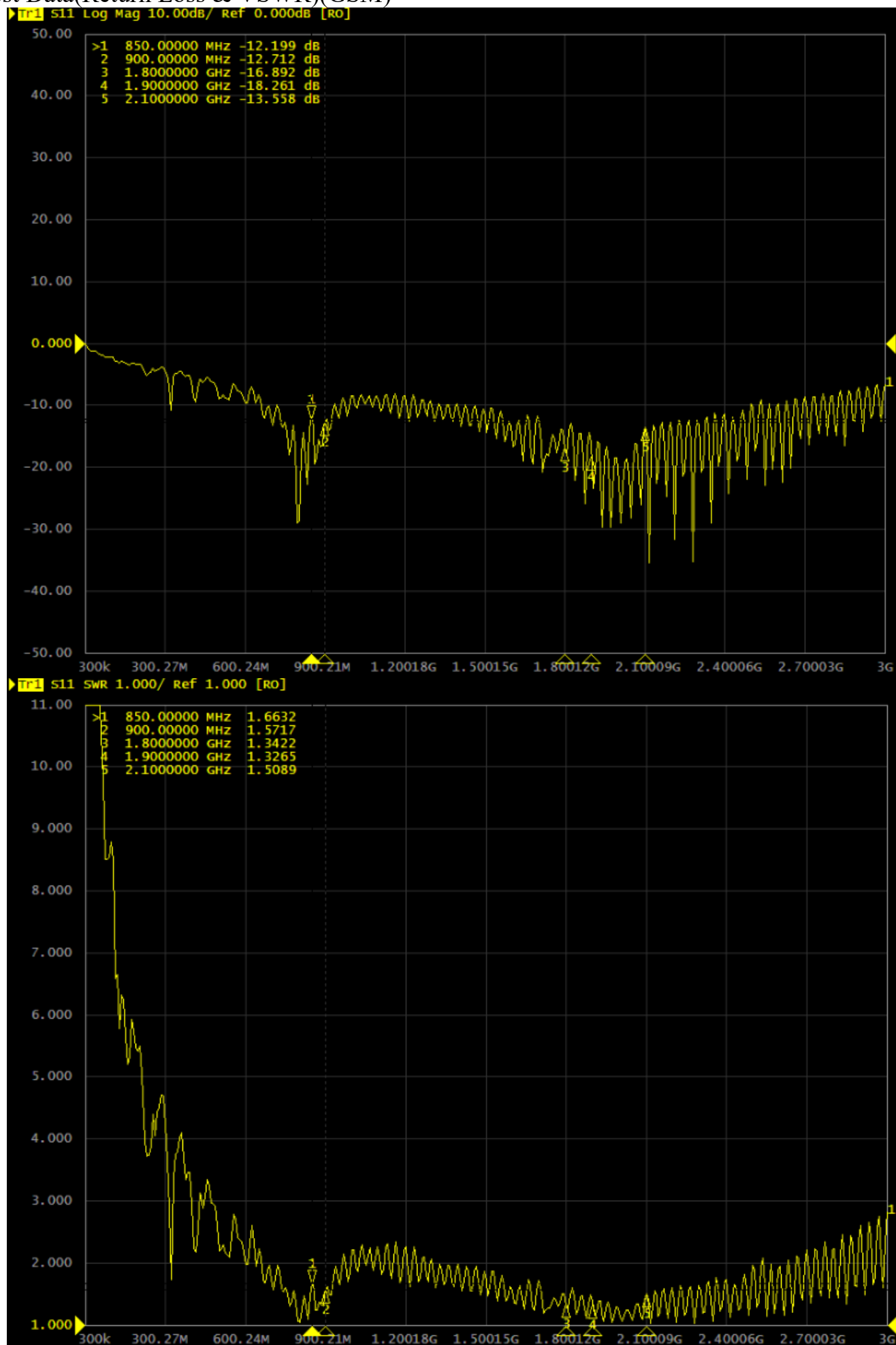
3D Test Data



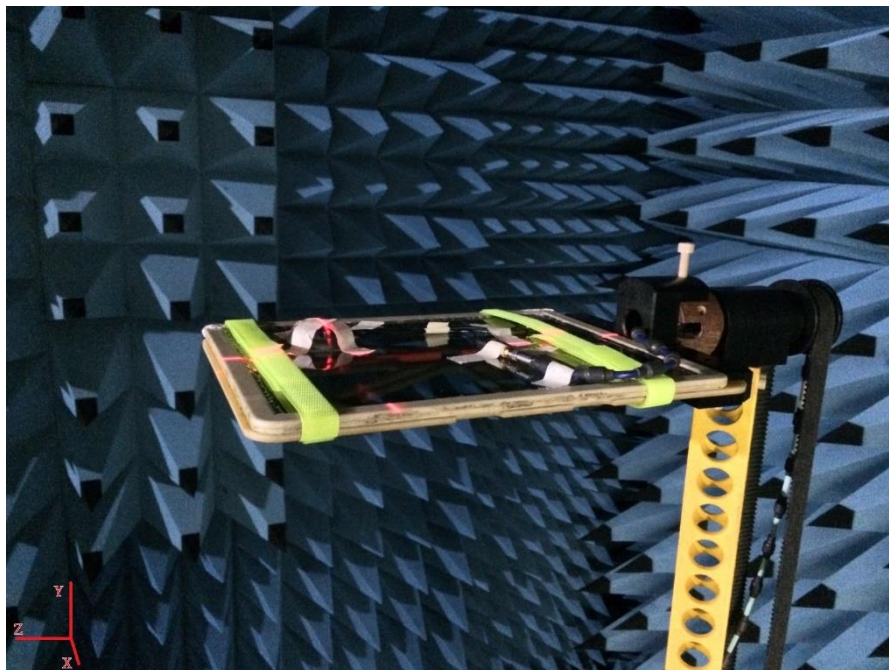


Frequency (MHz)	Return Loss (dB)	VSWR	Efficiency (%)	Gain (dBi)
850	-12.19	1.66	32.58	-0.59
900	-12.71	1.57	39.17	0.14
1800	-16.89	1.34	27.1	-2.01
1900	-18.26	1.32	16.87	-1.74
2100	-13.55	1.50	55.98	5.2

Test Data(Return Loss & VSWR)(GSM)

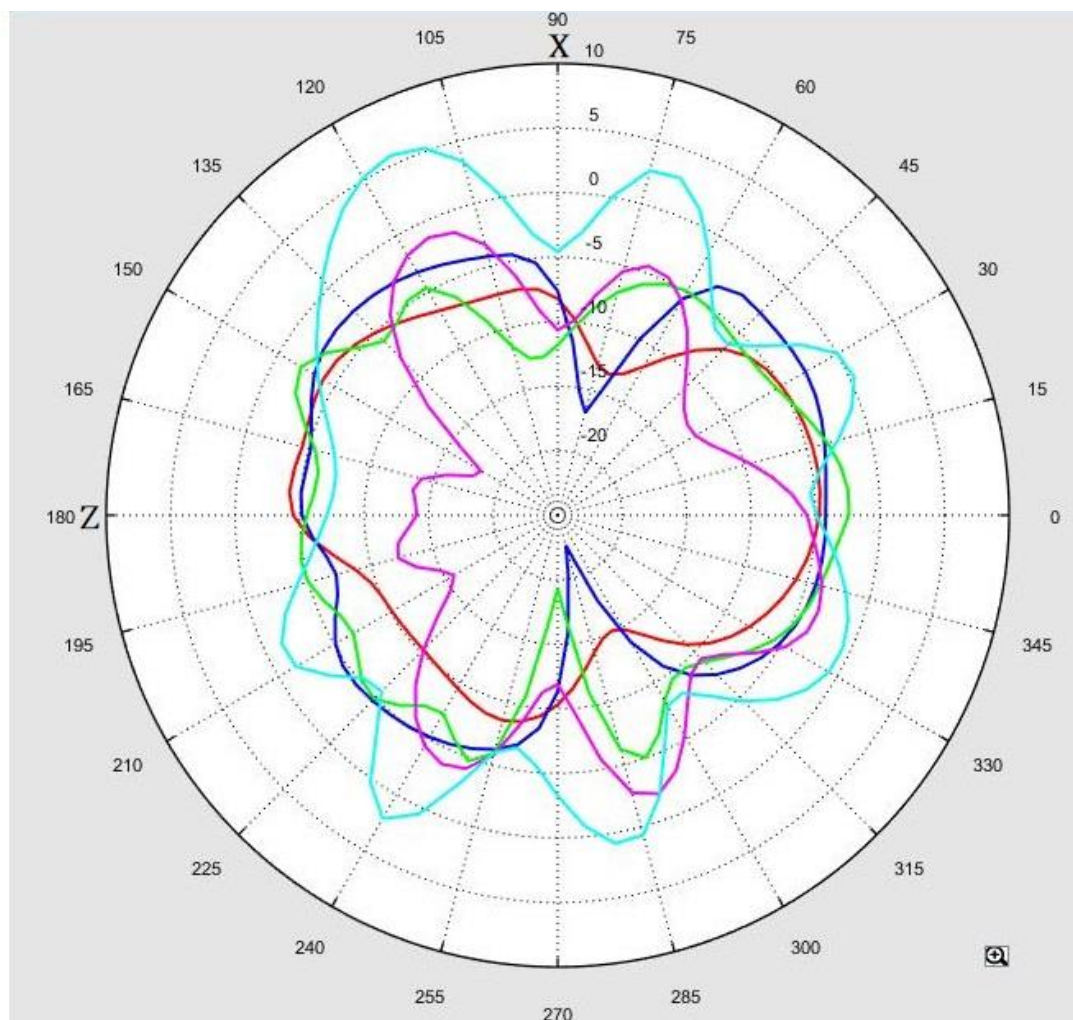


3D Test Photo

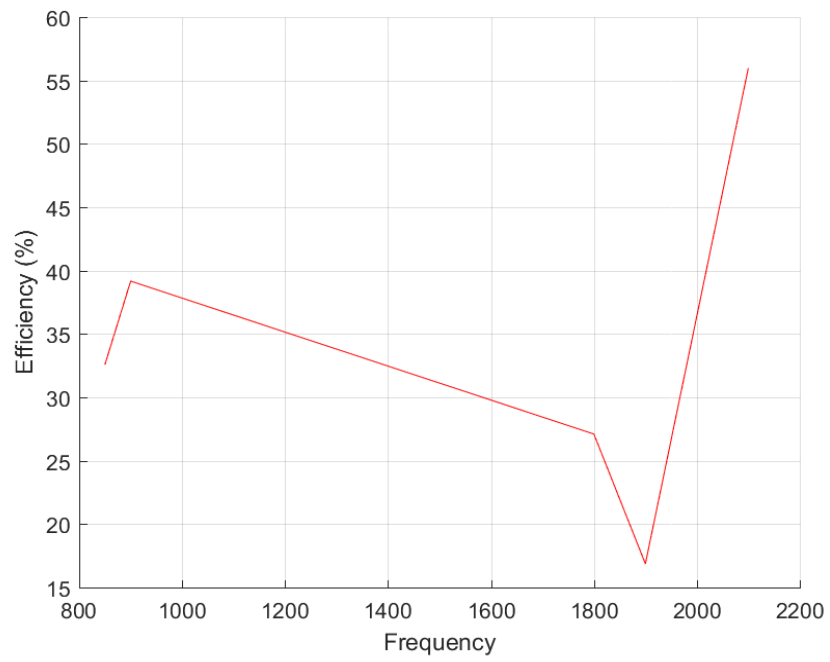


3D Test Data

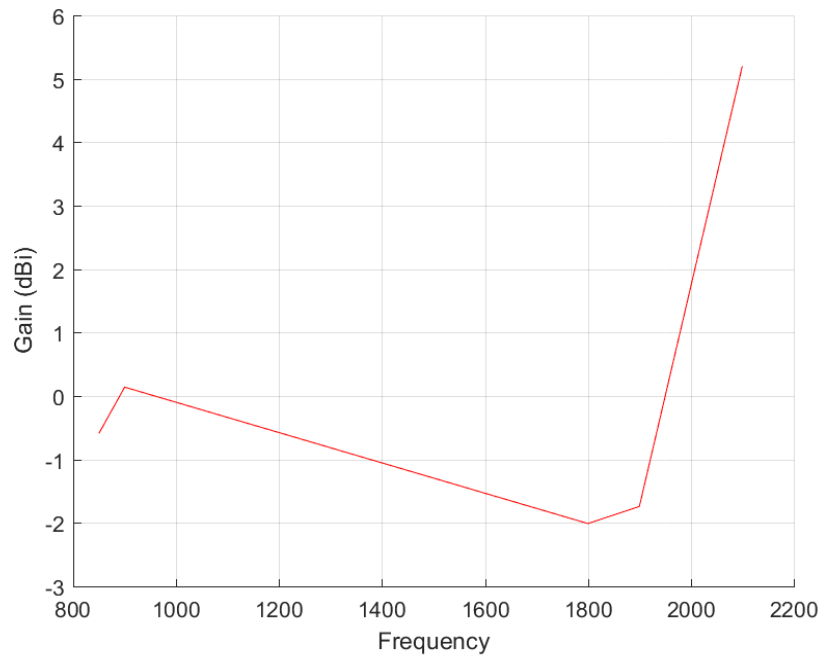
Freq. / Chan.	Color
850MHz	Red
900MHz	Blue
1.8GHz	Green
1.9GHz	Magenta
2.1GHz	Cyan



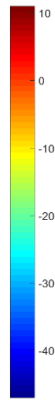
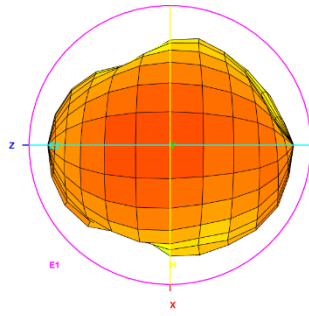
Total_Efficiency (%)



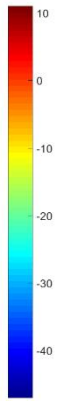
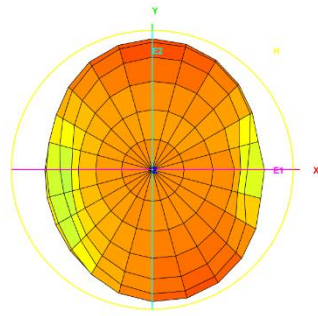
Total_Gain (dBi)



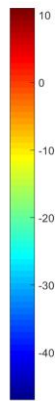
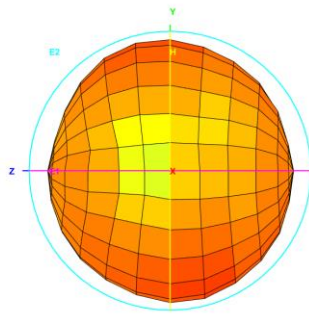
Total_3D_Top View_850MHz



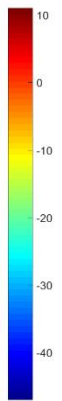
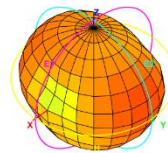
Total_3D_Front View_850MHz



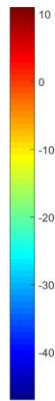
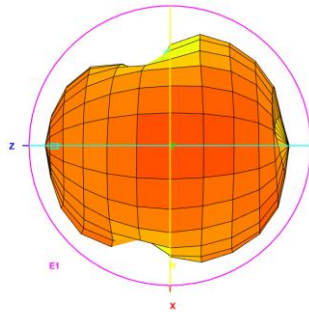
Total_3D_Left View_850MHz



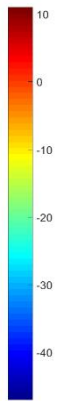
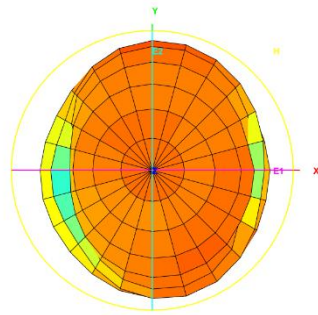
Total_3D_Side View 1_850MHz



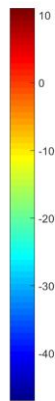
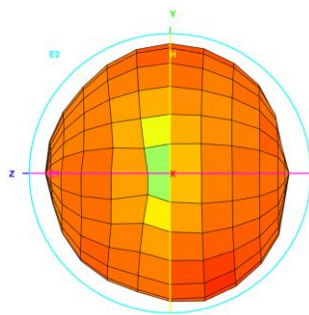
Total_3D_Top View_900MHz



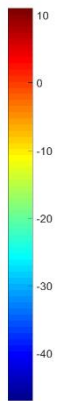
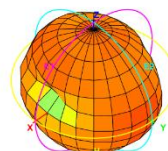
Total_3D_Front View_900MHz



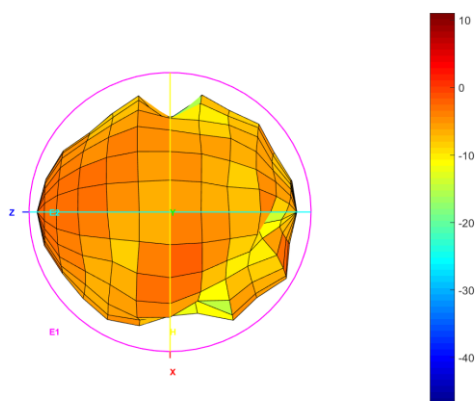
Total_3D_Left View_900MHz



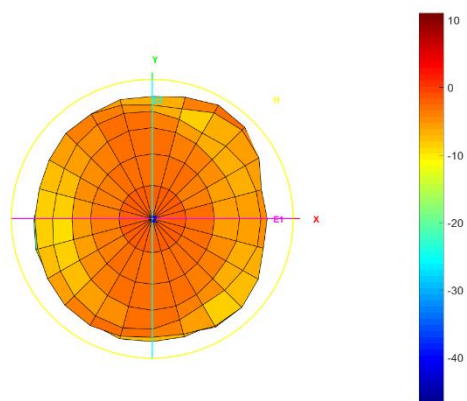
Total_3D_Side View 1_900MHz



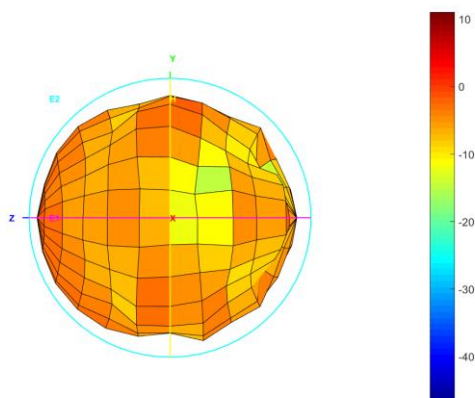
Total_3D_Top View_1.8GHz



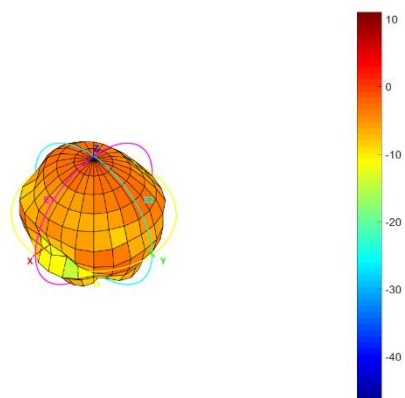
Total_3D_Front View_1.8GHz



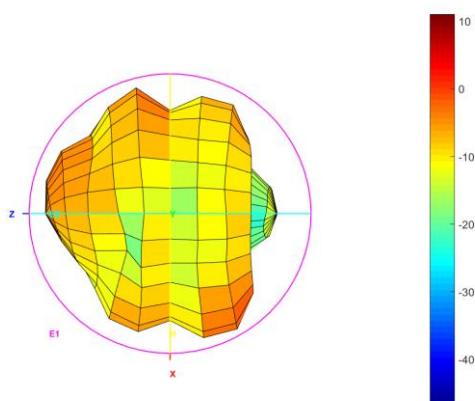
Total_3D_Left View_1.8GHz



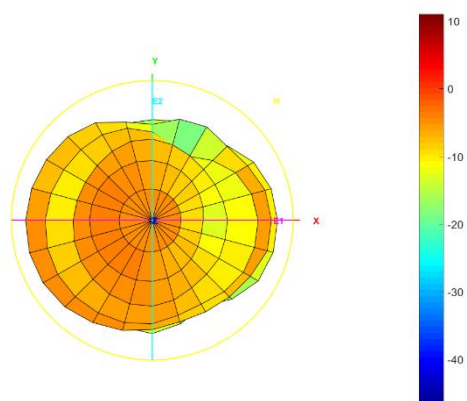
Total_3D_Side View 1_1.8GHz



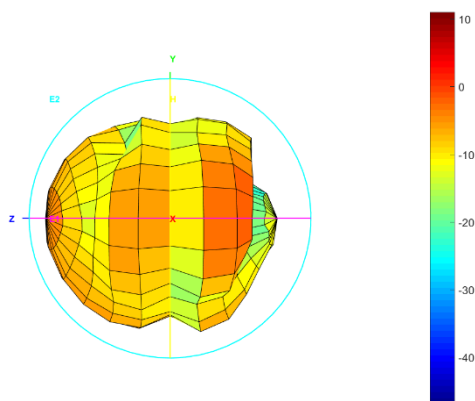
Total_3D_Top View_1.9GHz



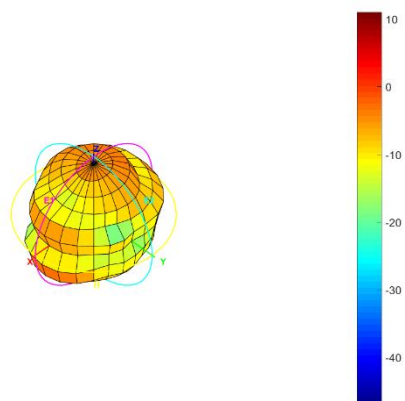
Total_3D_Front View_1.9GHz



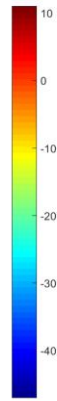
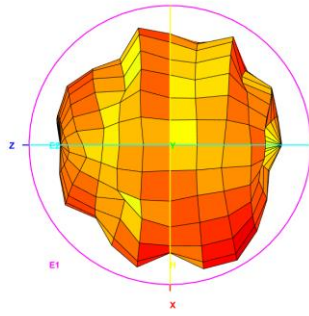
Total_3D_Left View_1.9GHz



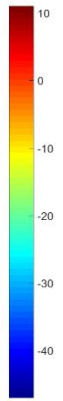
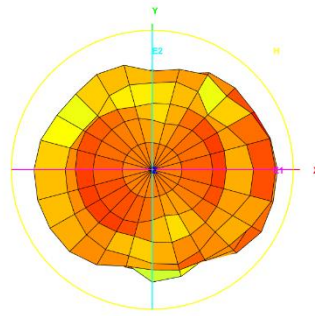
Total_3D_Side View 1_1.9GHz



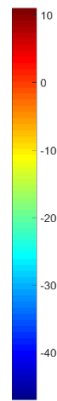
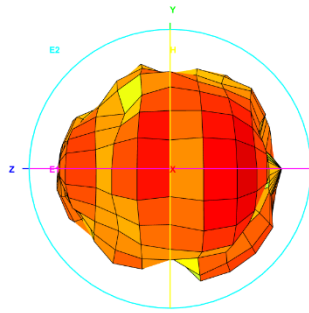
Total_3D_Top View_2.1GHz



Total_3D_Front View_2.1GHz



Total_3D_Left View_2.1GHz



Total_3D_Side View 1_2.1GHz

