2.4/5.8G WIFI Antenna

Model : TH-2458E

1. GENERAL DESCRIPTION

P/N
TH-2458E-SMA(M)

1.1Electrica Properties

Parameter	Description
Frequency Band	2.4~2.5/5.1~5.85GHz
Nominal Impedance	50 ohm
Polarization	Vertical
Return Loss	Please See Data-1
V.S.W.R	2.0:1

1.2 Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	SMA (Male)
Antenna Dimensions	OD13.6 x100mm±2
Antenna tube & Color	TPU - Black
Operating Temperature Range	-30˚C~+70˚C
Storage Temperature Range	-30˚C~+70˚C
Waterproof	IPX6-7

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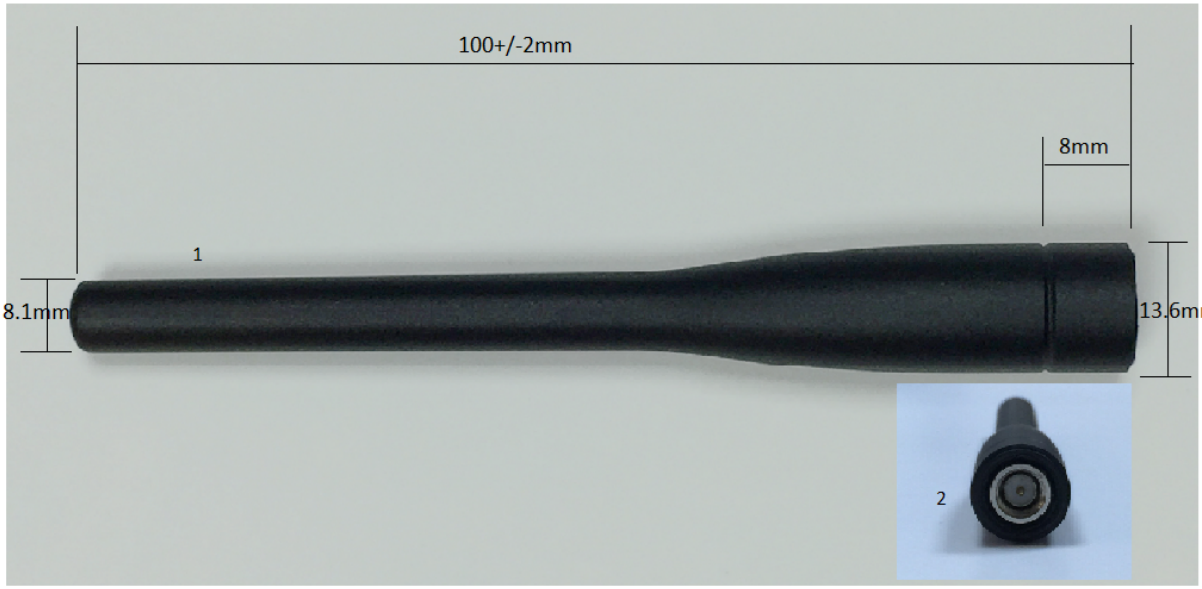
2. Appearance

NO.	NAME	Q, TY
01	TPU Tube	01
02	SMA(M)	01



Third angle projection	CUSTOMER'S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
		TH2458E		2.4-2.5/5.1-5.85Ghz	M/M		20160331	1
	TOLERANCE	X. XX±0. 15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
	SURFACE ROUGHNESS	S	APPEARANCE					

3. FREQUENCY : Test on Customer GND

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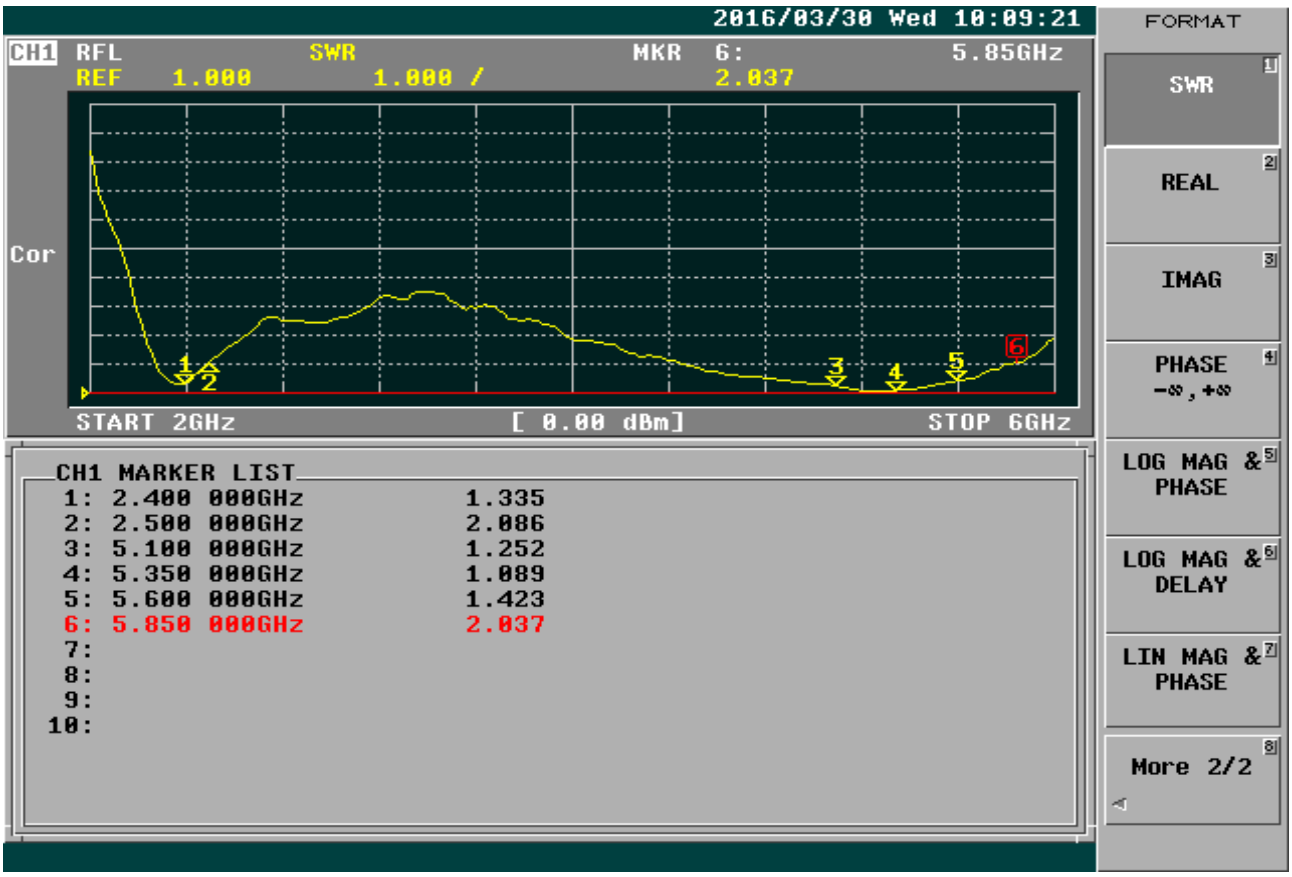
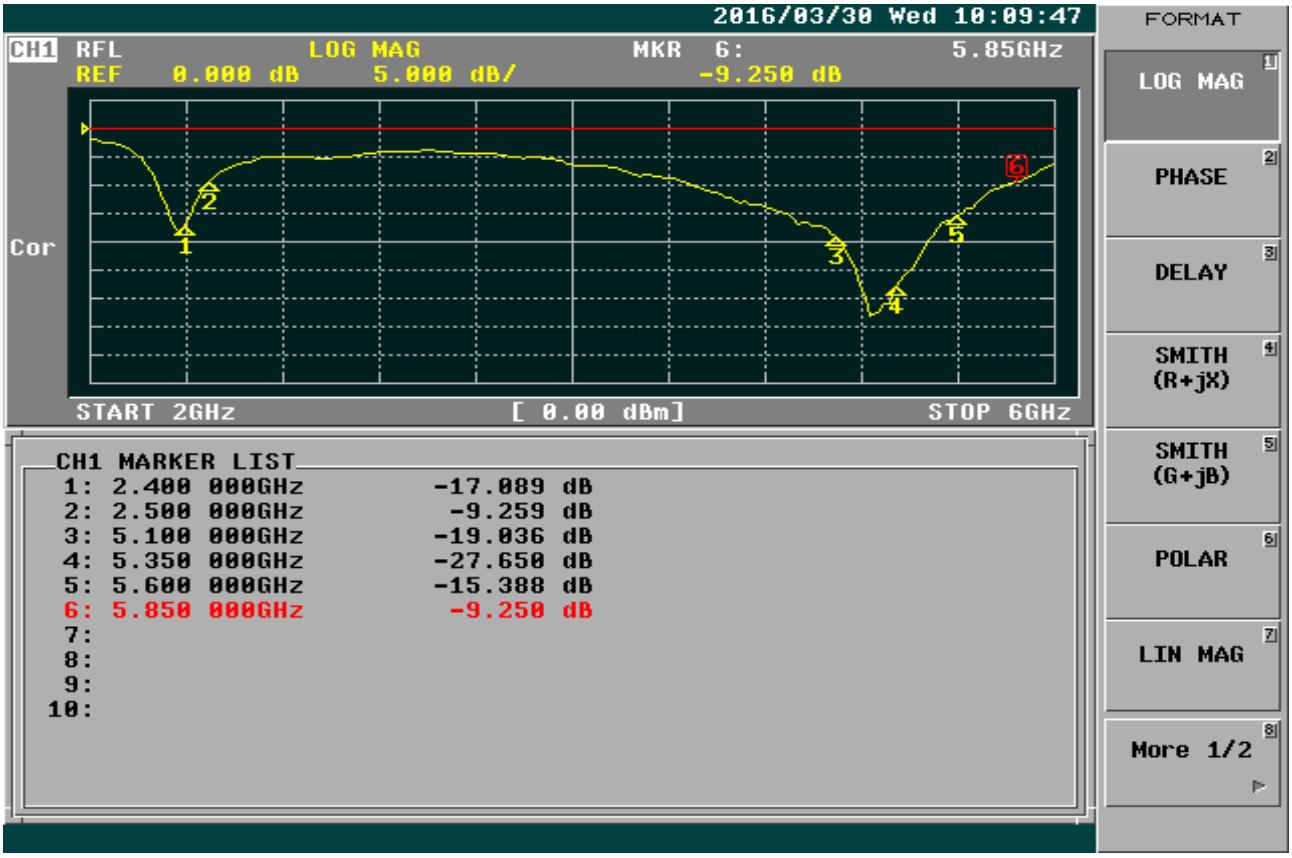

2016/03/30 Wed 10:09:21
CH1 RFL SWR MKR 6: 5.85GHz
REF 1.000 1.000 / 2.037
Cor
START 2GHz [0.00 dBm] STOP 6GHz
CH1 MARKER LIST
1: 2.400 000GHz 1.335
2: 2.500 000GHz 2.086
3: 5.100 000GHz 1.252
4: 5.350 000GHz 1.089
5: 5.600 000GHz 1.423
6: 5.850 000GHz 2.037
7:
8:
9:
10:
FORMAT
SWR
REAL
IMAG
PHASE -∞,+∞
LOG MAG & PHASE
LOG MAG & DELAY
LIN MAG & PHASE
More 2/2


2016/03/30 Wed 10:09:47
CH1 RFL LOG MAG MKR 6: 5.85GHz
REF 0.000 dB 5.000 dB/ -9.250 dB
Cor
START 2GHz [0.00 dBm] STOP 6GHz
CH1 MARKER LIST
1: 2.400 000GHz -17.089 dB
2: 2.500 000GHz -9.259 dB
3: 5.100 000GHz -19.036 dB
4: 5.350 000GHz -27.650 dB
5: 5.600 000GHz -15.388 dB
6: 5.850 000GHz -9.250 dB
7:
8:
9:
10:
FORMAT
LOG MAG
PHASE
DELAY
SMITH (R+jX)
SMITH (G+jB)
POLAR
LIN MAG
More 1/2

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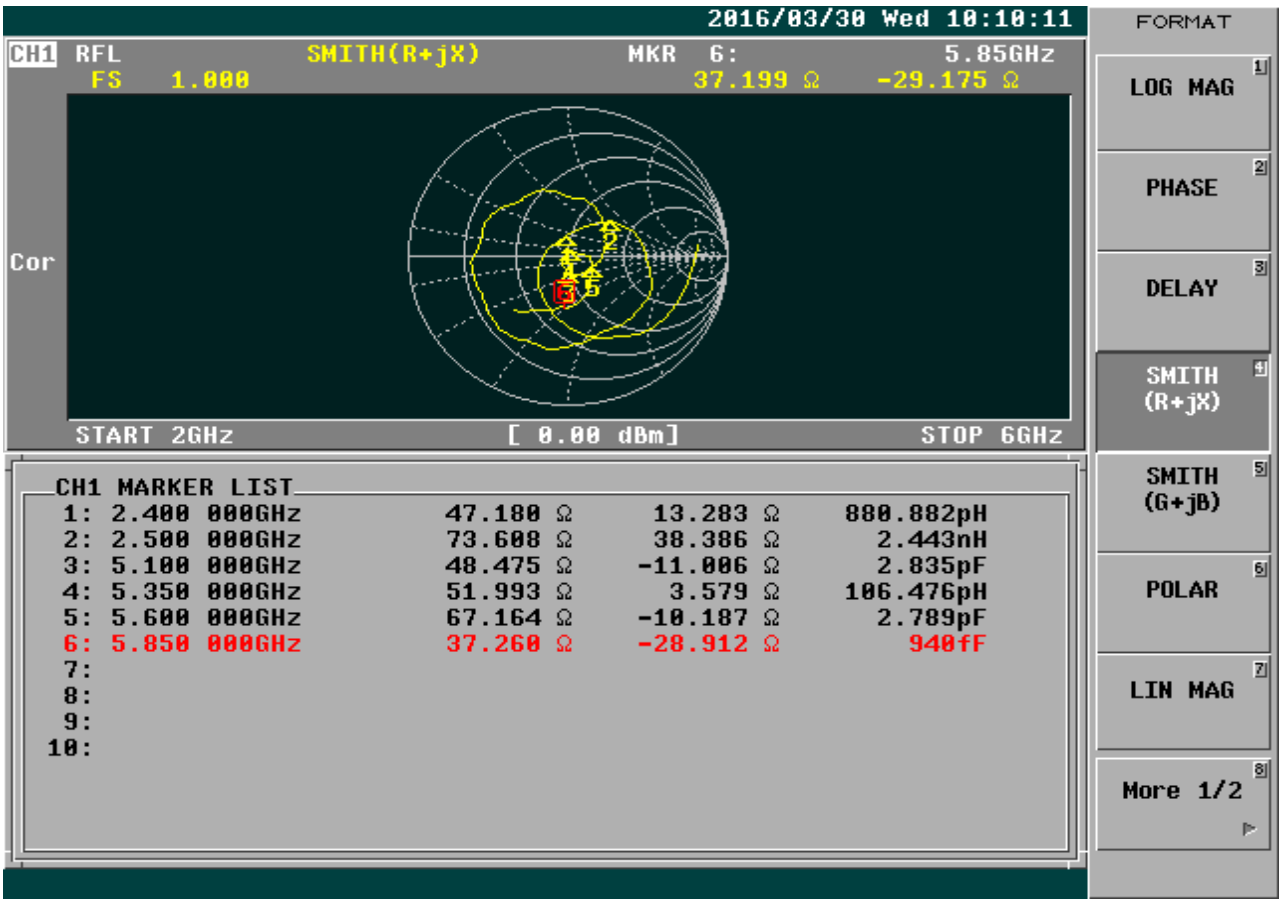

Frequency (MHz)	2400	2450	2500	5150	5250	5350	5470	5600	5725	5785	5850
Peak Gain (dBi)	5.80	5.37	5.19	6.61	6.28	6.13	5.14	5.45	6.27	5.13	4.10
Efficiency (%)	91.70	88.98	83.90	85.90	87.64	88.45	76.57	80.39	87.99	74.50	68.41

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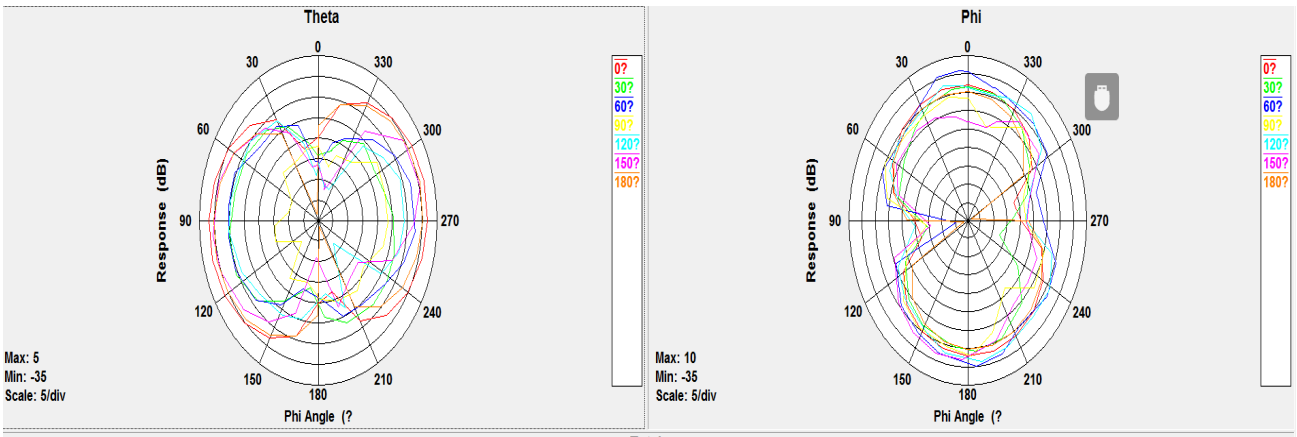
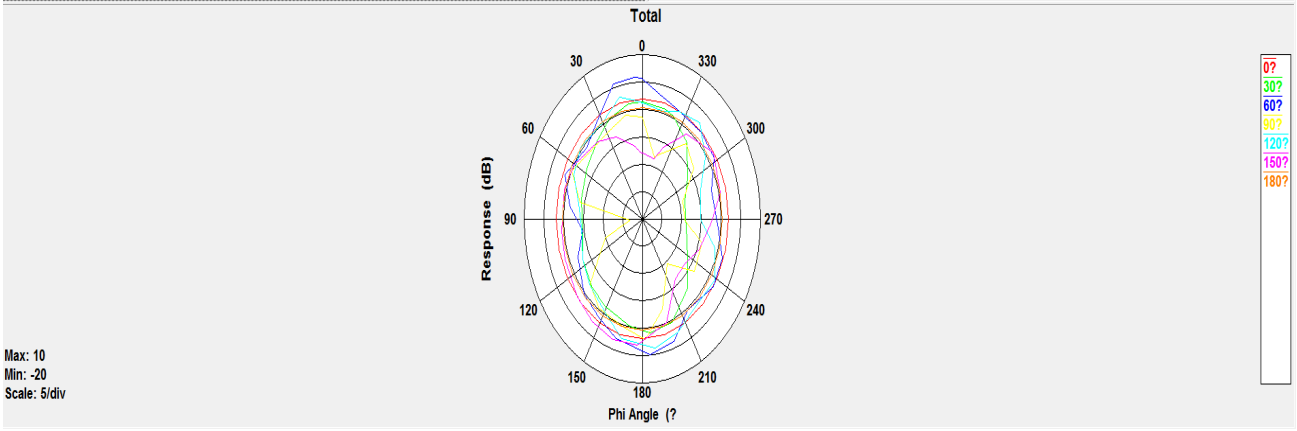
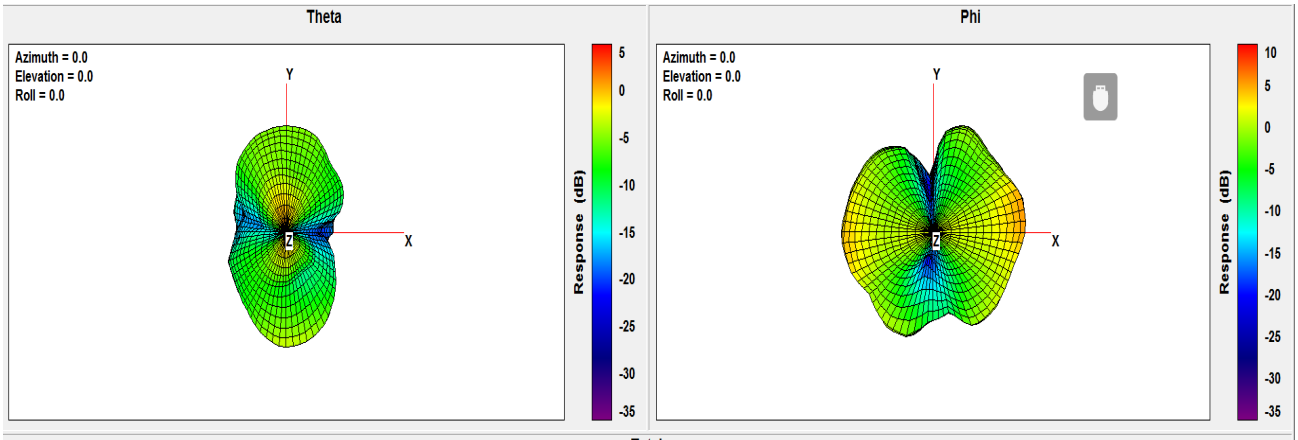
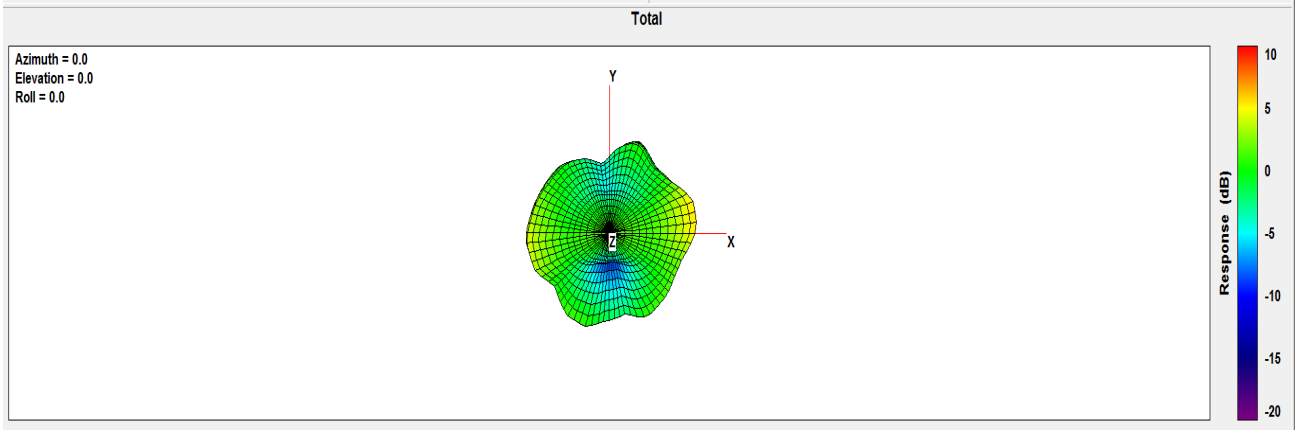

Theta
Response (dB)
Phi Angle (?
0?
30?
60?
90?
120?
150?
180?
Max: 5
Min: -35
Scale: 5/div

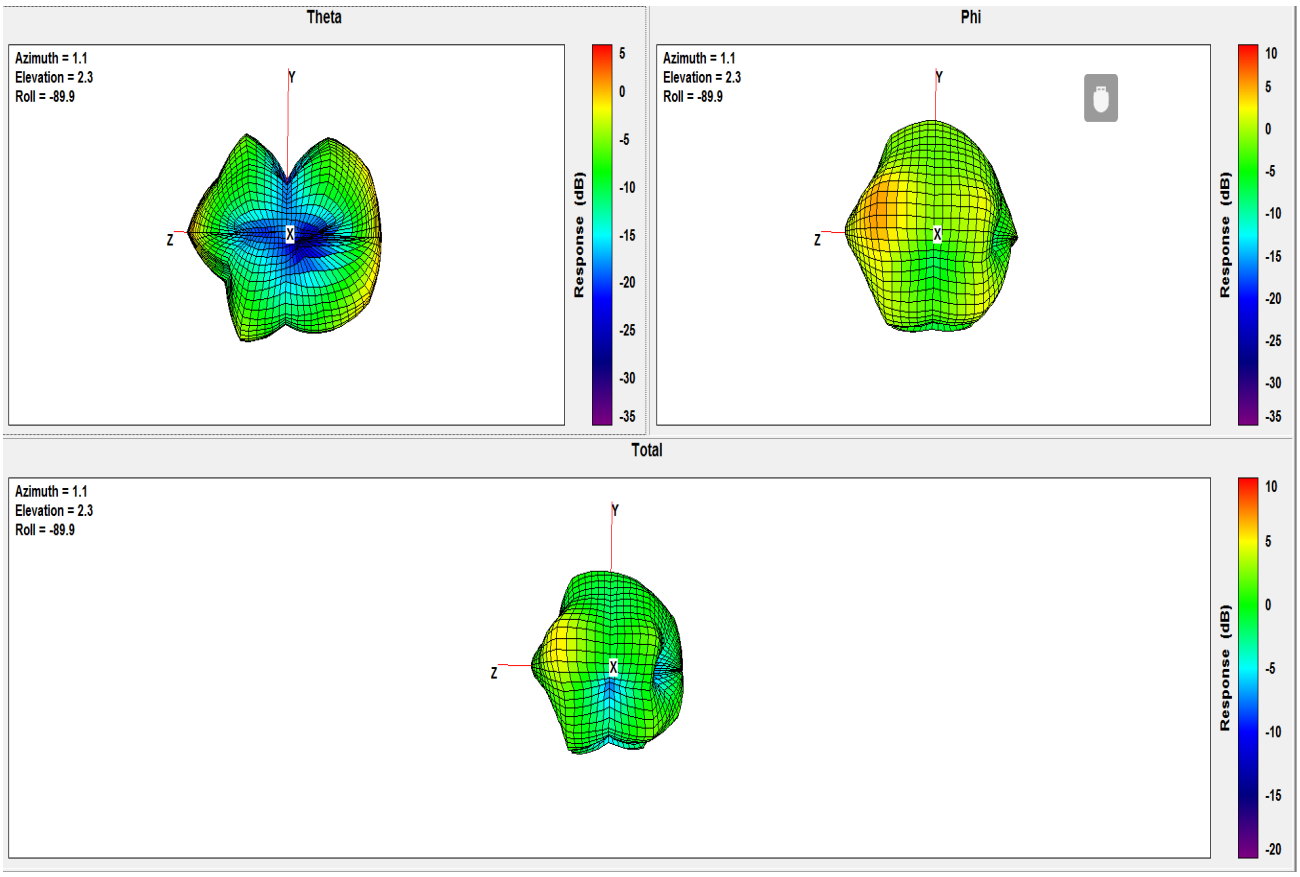
Phi
Response (dB)
Phi Angle (?
0?
30?
60?
90?
120?
150?
180?
Max: 10
Min: -35
Scale: 5/div

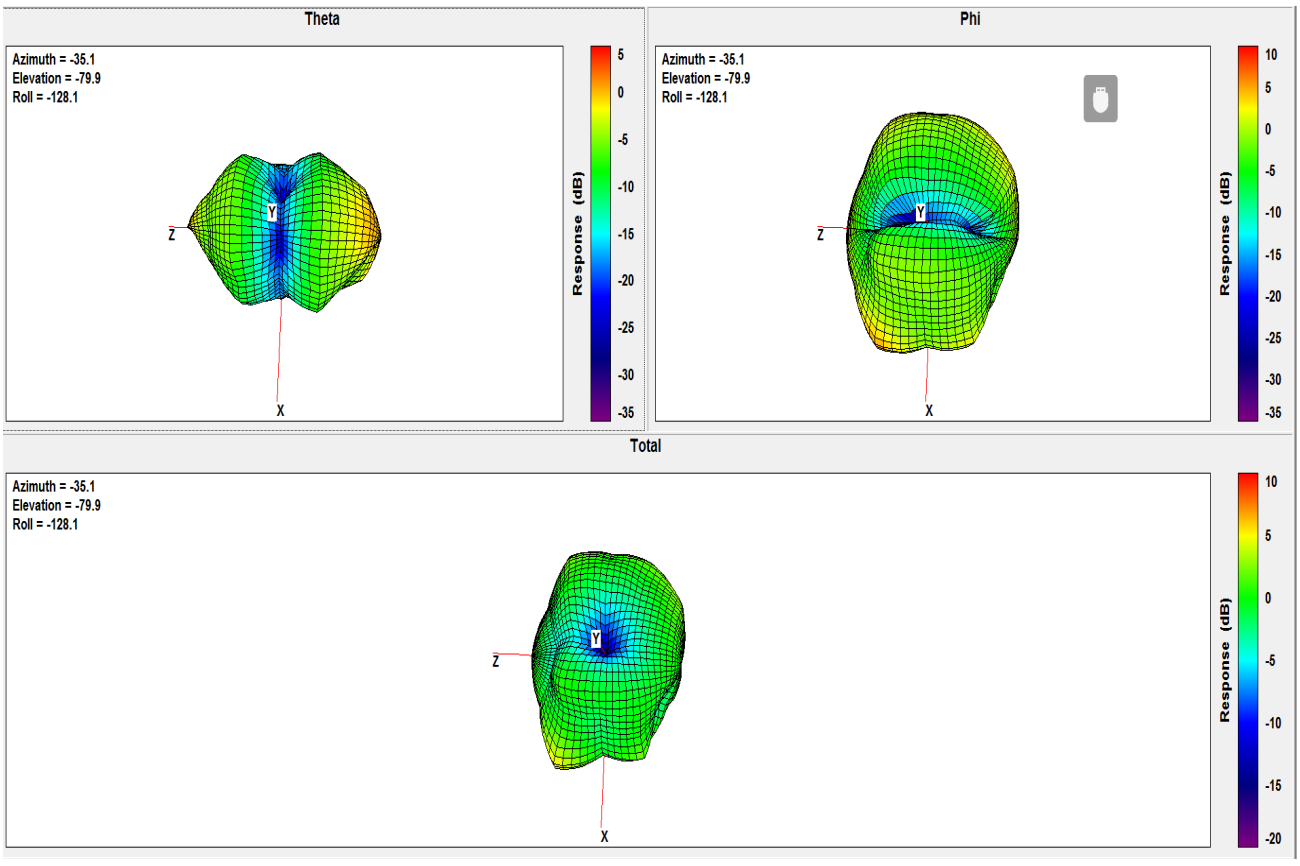

Total
Response (dB)
Phi Angle (?
0?
30?
60?
90?
120?
150?
180?
Max: 10
Min: -20
Scale: 5/div


Theta
Azimuth = 0.0
Elevation = 0.0
Roll = 0.0
Response (dB)

Phi
Azimuth = 0.0
Elevation = 0.0
Roll = 0.0
Response (dB)


Total
Azimuth = 0.0
Elevation = 0.0
Roll = 0.0
Response (dB)


Theta
Azimuth = 1.1
Elevation = 2.3
Roll = -89.9
Response (dB)
5
0
-5
-10
-15
-20
-25
-30
-35
Phi
Azimuth = 1.1
Elevation = 2.3
Roll = -89.9
Response (dB)
10
5
0
-5
-10
-15
-20
-25
-30
-35
Total
Azimuth = 1.1
Elevation = 2.3
Roll = -89.9
Response (dB)
10
5
0
-5
-10
-15
-20


Theta
Azimuth = -35.1
Elevation = -79.9
Roll = -128.1
Response (dB)
5
0
-5
-10
-15
-20
-25
-30
-35
Phi
Azimuth = -35.1
Elevation = -79.9
Roll = -128.1
Response (dB)
10
5
0
-5
-10
-15
-20
-25
-30
-35
Total
Azimuth = -35.1
Elevation = -79.9
Roll = -128.1
Response (dB)
10
5
0
-5
-10
-15
-20