Stigwize 3-in-1 Puck Antenna

2x 4G | 1x GPS

Product Stigwize 3-in-1 Puck Antenna

SKU STI-PUCK-24G-GPS

EAN 8785285643402

Capestone articlenumber STI20010

RoHS COMPLIANT

Stigwize 3-in-1 Puck Antenna

With its unique combination of 2x 4G and 1x GPS, this antenna offers a comprehensive approach to network connectivity. The Stigwize 3-in-1 Puck antenna (2x4G|GPS), a versatile and economical connectivity solution designed to meet the diverse needs of businesses in the modern world.

Features

- Type: PUCK antenna
- 3G/4G:Frequency & Gain: 700-960 /1575-2700MHz Gain 1-4 dBi
- GPS: 1575Mhz 28dBi
- Cables and Connector: 3x 3 RG174 meters (SMA)
- Polarization: Linear vertical
- Voltage Standing Wave Ratio: ≤ 2.0

Key features

- 4G connectivity: dual 4G connectivity: with two 4G antennas, this puck antenna provides redundant connectivity, ensuring uninterrupted data transmission and improved network reliability.
- GPS functionality: The integrated GPS module enables accurate location tracking, essential for logistics, fleet management and asset monitoring.
- Compact design: The compact and robust design of the Stigwize 3-in-1 Puck antenna makes it suitable for both indoor and outdoor installations, ensuring deployment flexibility.
- Reliable performance: Stigwize products are known for their reliability, minimizing downtime and maximizing operational efficiency.

Applications

- Fleet Management Systems: The combination of 2x 4G and GPS provides continuous connectivity for data transfer and communication with the vehicles, enabling efficient fleet management.
- Industrial IoT applications: In industrial environments, where connectivity is essential for monitoring and controlling machinery and equipment, the Stigwize 3-in-1 Puck antenna can provide both 2x 4G cellular and GPS connectivity. This makes it suitable for applications such as remote equipment monitoring, predictive maintenance and device tracking and location.
- Outdoor surveillance and security: Outdoor surveillance cameras and security systems often require remote connectivity. The rugged design of this antenna, combined with its 4G and GPS capabilities, can support surveillance cameras in remote locations.
- Agricultural automation: In precision agriculture, farmers can use this antenna to monitor and control agricultural equipment such as drones and autonomous vehicles. The 4G and GPS connections enable data exchange for crop monitoring and equipment management.

About Stigwize

Stigwize is an antenna brand for 4G, 5G, WiFi and GPS antennas for the business market. Stigwize antennas can be used in all kinds of vertical sectors including IoT, Enterprise, Retail, Construction, Mobility, Security and Maritime.

As the European distributor of Stigwize, Capestone supplies the complete antenna portfolio. This portfolio includes 4G and 5G antennas for indoors and outdoors, vandal-resistant puck antennas and screw antennas for mounting on 5G routers.

When stigmatizing profits, in addition to favorable pricing, there are also various other benefits including a 24-month warranty and a direct SWAP policy. Capestone's engineers can also put together custom antennas for projects, so that you always have the most suitable solution, as you have come to expect from Capestone.

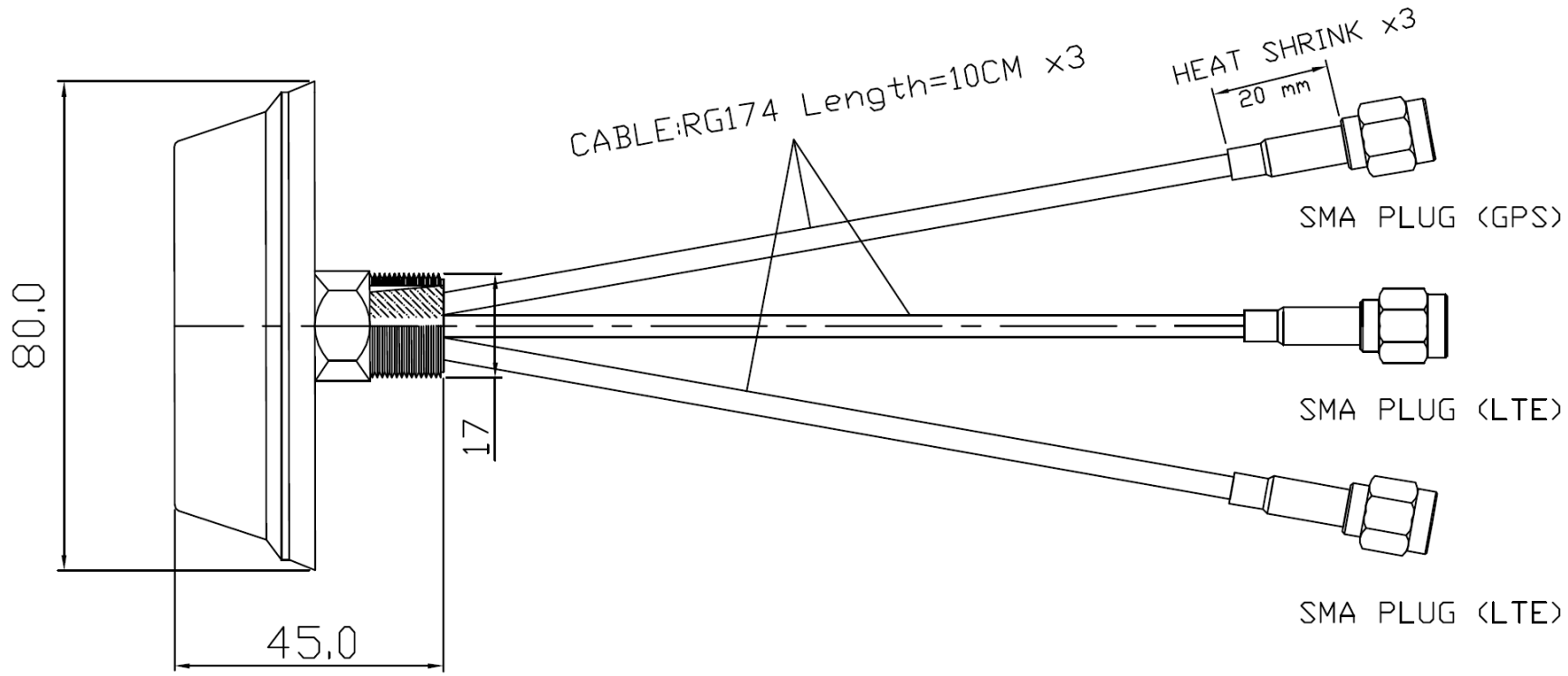
Specification STI-PUCK-24G-GPS	
Model No.	**STI-PUCK-24G-GPS**
Antenna Type	Roof Screw Mount
Antenna Size	L80xW80xH45 mm
Temperature	-40 to +85 °C
Humidity	40% to 95% RH

LTE	
Gain (dBi）	1-4 dBi
Frequency	700-960 /1700-2700MHz
V.S.W.R.	<=2.5
Polarization	Linear Vertical
Antenna Connector	SMA Plug
Antenna Cable	RG174　Length=10CM

LTE	
Gain (dBi）	1-4 dBi
Frequency	700-960 /1700-2700MHz
V.S.W.R.	<=2.5
Polarization	Linear Vertical
Antenna Connector	SMA Plug
Antenna Cable	RG174　Length=10CM

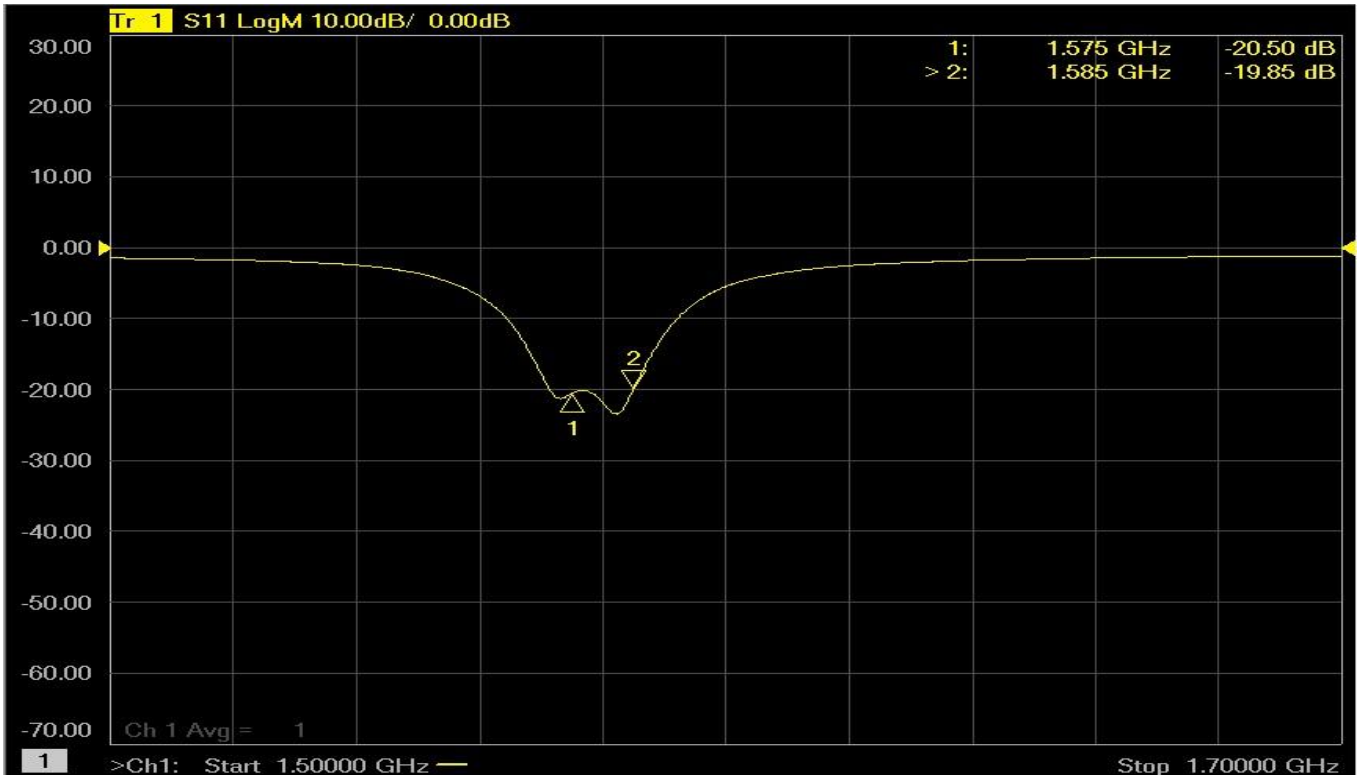
GPS	
Ceramic Path Specification	
Operating Frequency	T1 1575.42±1.023MHz
Output Impedance	50 ohms
Polarization	R.H.C.P.
Bandwidth	10 MHz min. @S11<=-10 dB
Gain at 10° elevation	-1 dBic Typ.
Axial Ratio	3.0 dB Typ.
LNA/Filter Specification	
Operating Frequency	T1 1575.42±1.023 MHz
Gain	28 Db Typ.
Noise Figure	1.5 Typ.
Filter	DR Filter
	20dB 30dB min @ fo±50MHz
	30dB 35dB min @ fo±50MHz
	* fo=1575.42 MHz
Output V.S.W.R.	2.0 Max
Voltage	2.3~5.5V
Current	2.5V : 6.6mA Typical
	3V : 8.6mA Typical
	4V : 12.6mA Typical
	5V : 16.6mA Typical
General specification	
Coaxial Cable	RG174 Length=10CM
Cable Connector (GPS)	SMA Plug

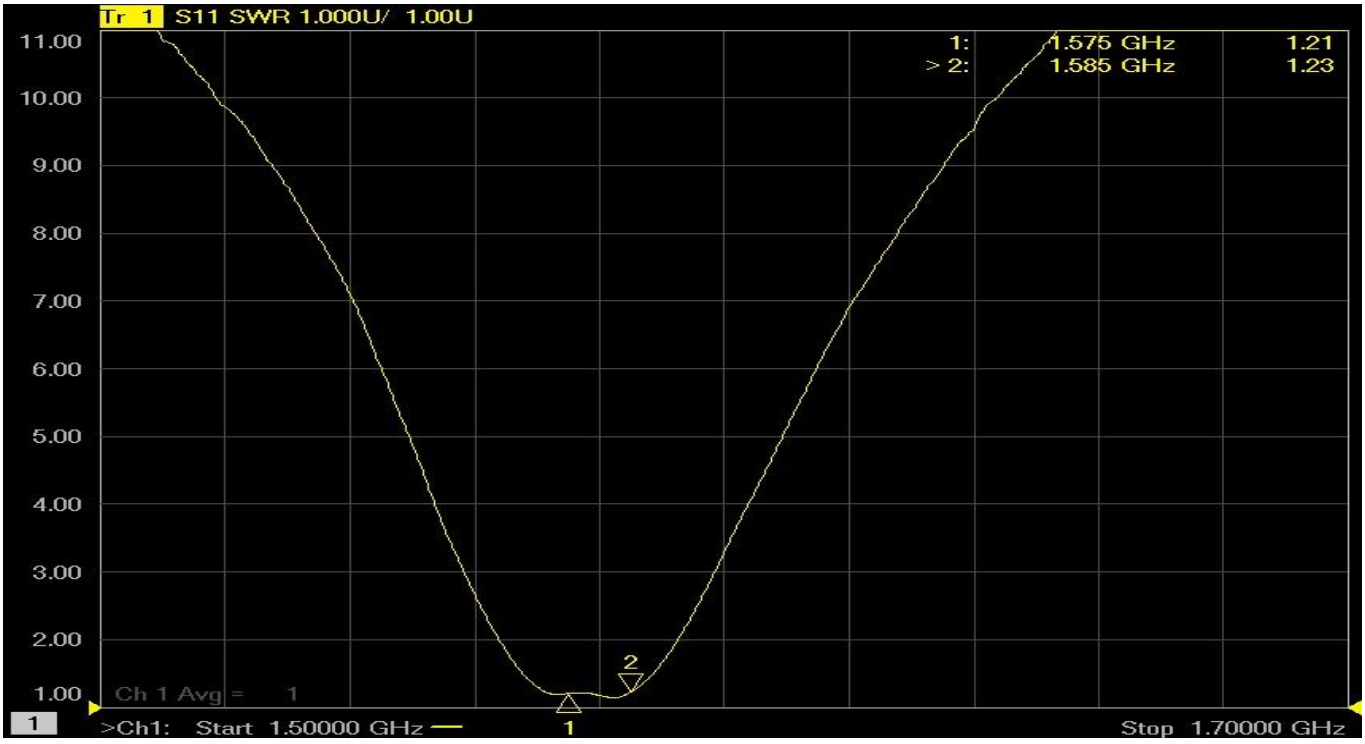
GPS ACTIVE/LTE/LTE 3 IN 1 80mm Circle ROOF SCREW MOUNT+RG174(10CM)x3+SMA PLUG(GPS)+SMA PLUG(LTE)+SMA PLUG(LTE)



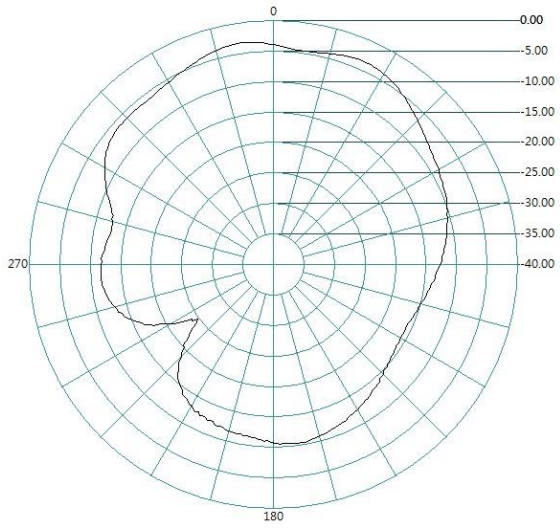
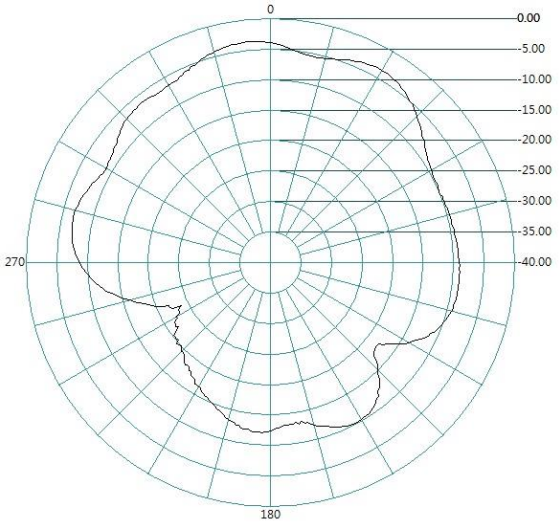
1	FREQUENCY : GPS 1575/LTE(700-960/1700-2700) X2	6	IMPEDANCE : 50Ω
2	GAIN : GPS 28dB/LTE 1-4dBi/LTE 1-4dBi	7	
3	V.S.W.R : <= 2.5	8	
4	CABLE LENGTH : RG174 L=10CM x3	9	
5	CONNECTOR : SMA PLUG(GPS) , SMA PLUG (LTE) , SMA PLUG (LTE)	10	

GPS Port

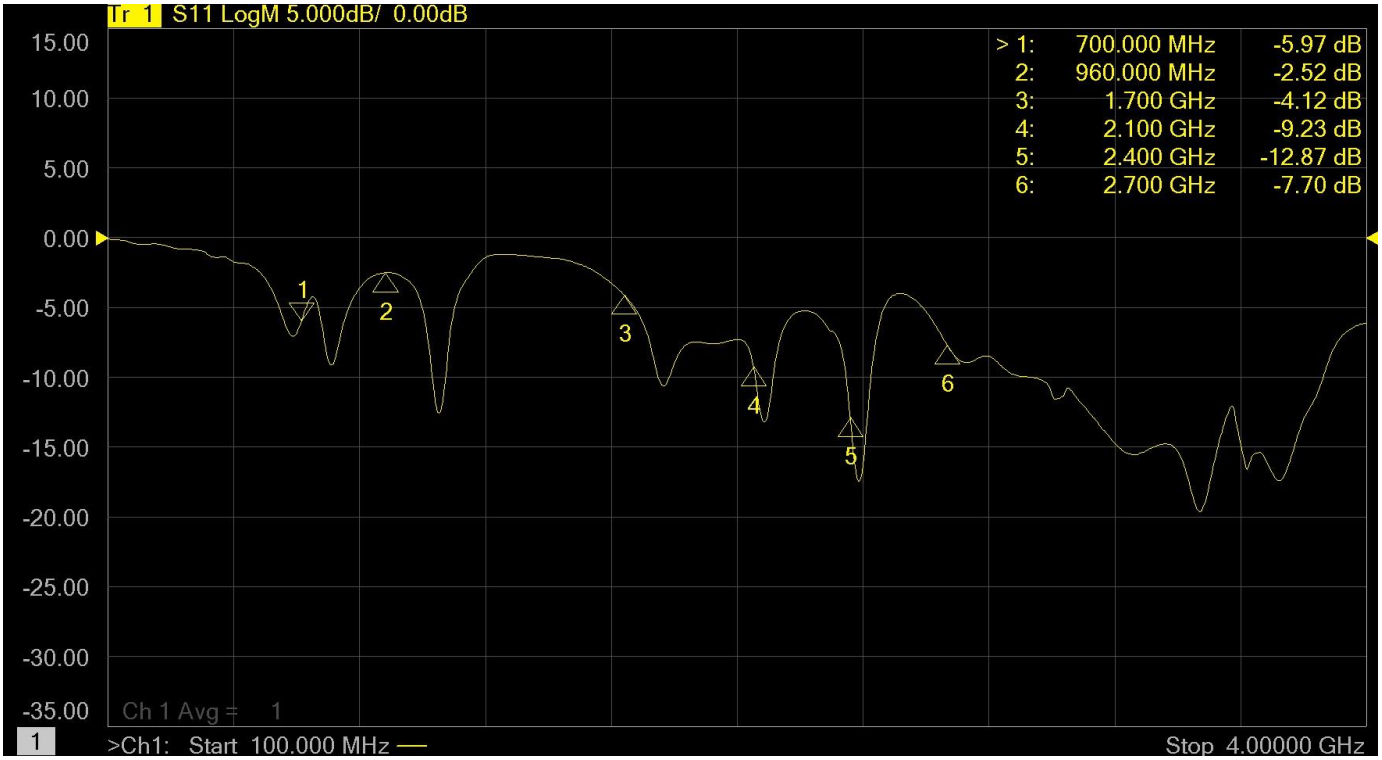

Tr 1 S11 LogM 10.00dB/ 0.00dB
1: 1.575 GHz -20.50 dB
> 2: 1.585 GHz -19.85 dB
30.00
20.00
10.00
0.00
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
-70.00
Ch 1 Avg = 1
1
>Ch1: Start 1.50000 GHz
Stop 1.70000 GHz

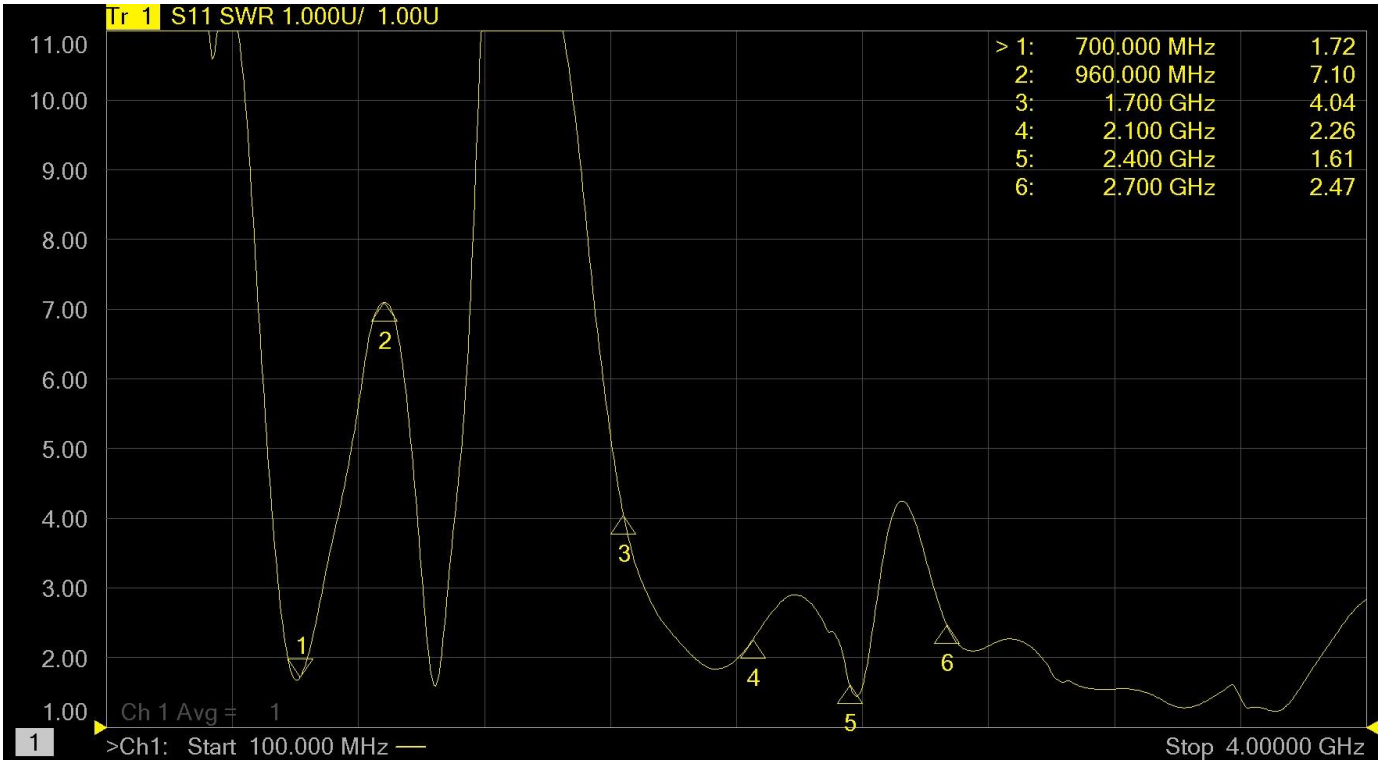

Tr 1 S11 SWR 1.000U/ 1.00U
1: 1.575 GHz 1.21
> 2: 1.585 GHz 1.23
11.00
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
Ch 1 Avg = 1
1
>Ch1: Start 1.50000 GHz
Stop 1.70000 GHz

Radiation pattern

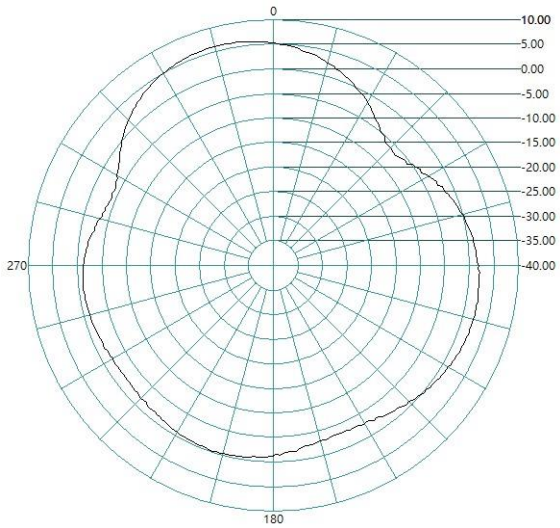
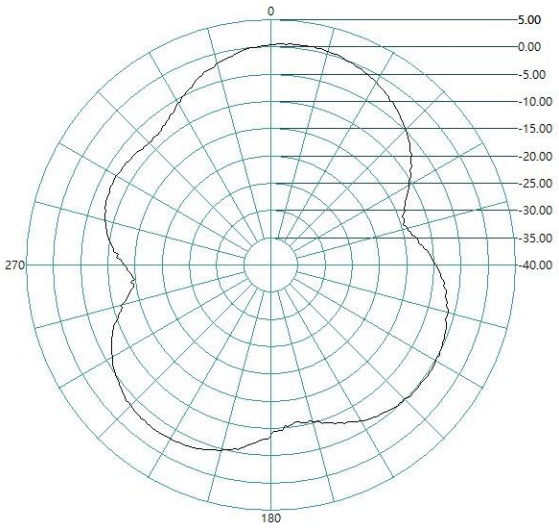
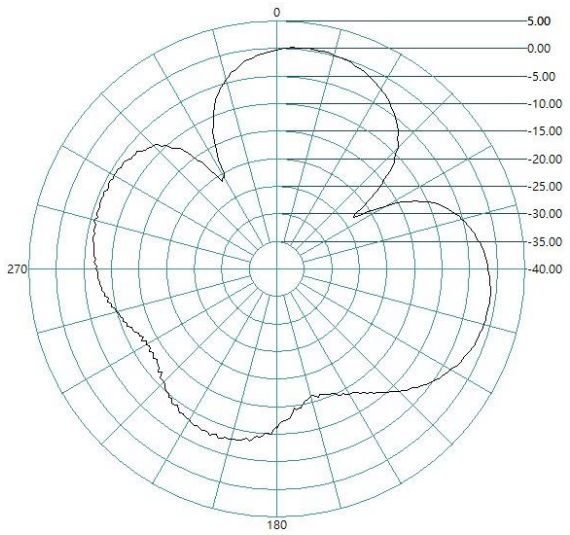
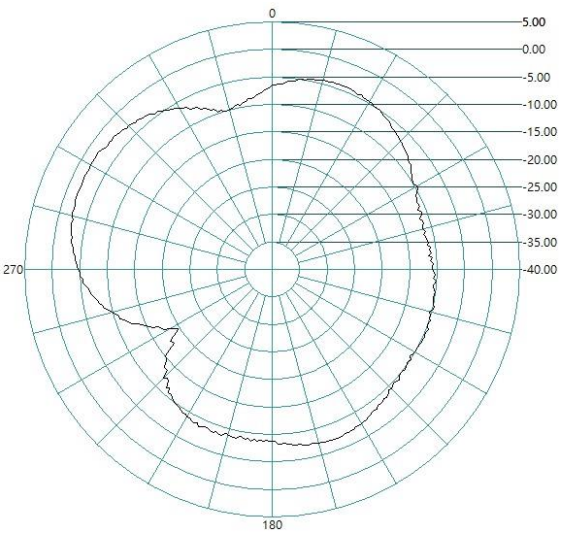
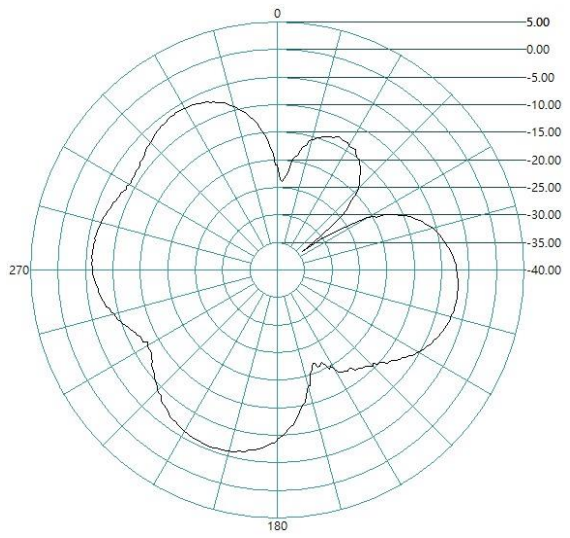
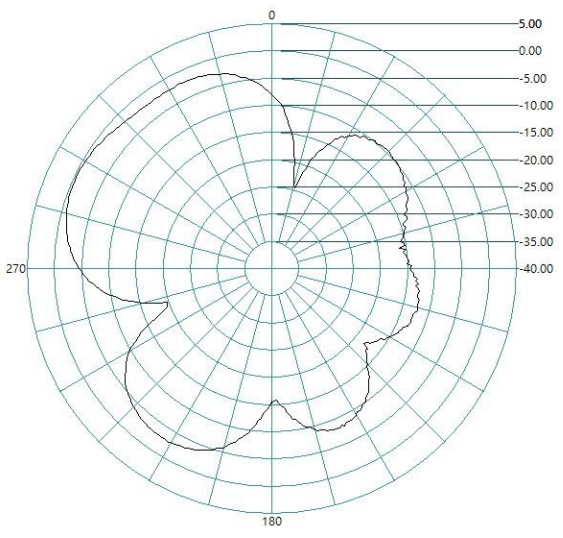
E-plane	H-plane
1575MHz 	

LTE Port 1

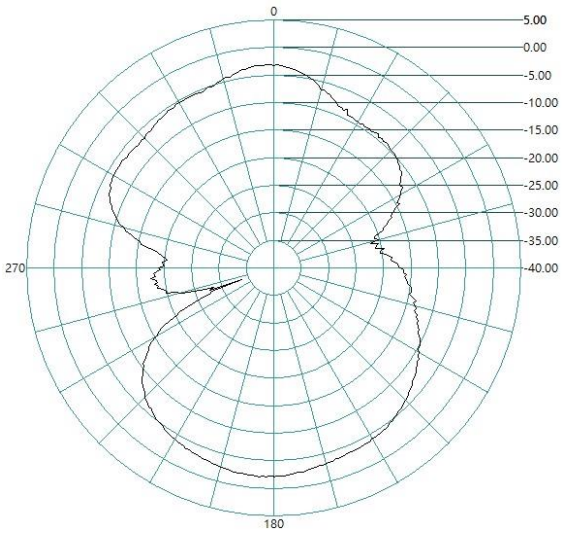

Tr 1 S11 LogM 5.000dB/ 0.00dB
15.00
10.00
5.00
0.00
-5.00
-10.00
-15.00
-20.00
-25.00
-30.00
-35.00
> 1: 700.000 MHz -5.97 dB
2: 960.000 MHz -2.52 dB
3: 1.700 GHz -4.12 dB
4: 2.100 GHz -9.23 dB
5: 2.400 GHz -12.87 dB
6: 2.700 GHz -7.70 dB
Ch 1 Avg = 1
1
>Ch1: Start 100.000 MHz
Stop 4.00000 GHz

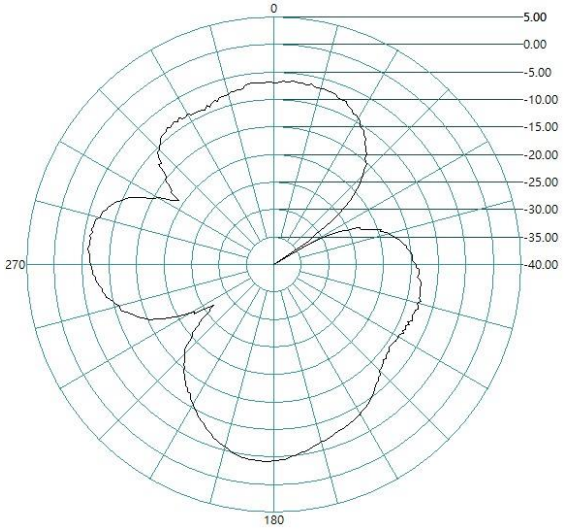

Tr 1 S11 SWR 1.000U/ 1.00U
11.00
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
> 1: 700.000 MHz 1.72
2: 960.000 MHz 7.10
3: 1.700 GHz 4.04
4: 2.100 GHz 2.26
5: 2.400 GHz 1.61
6: 2.700 GHz 2.47
Ch 1 Avg = 1
1
>Ch1: Start 100.000 MHz
Stop 4.00000 GHz

Radiation pattern

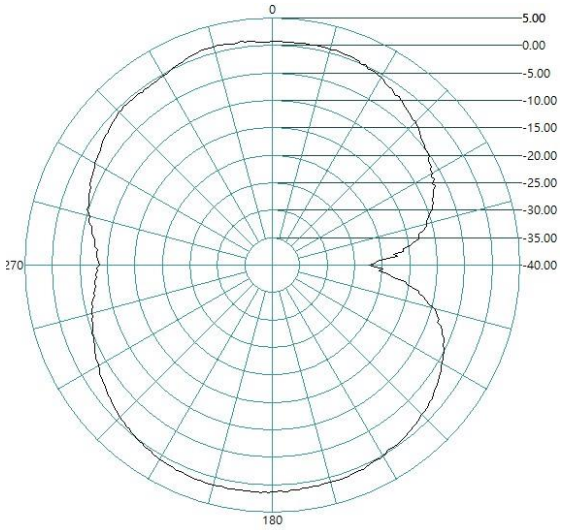
E-plane	H-plane
0.7GHz 	
0.8GHz 	
0.9GHz 	

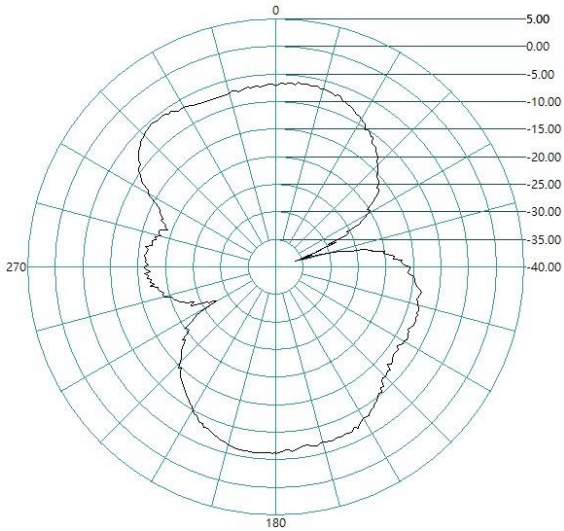
1.7GHz



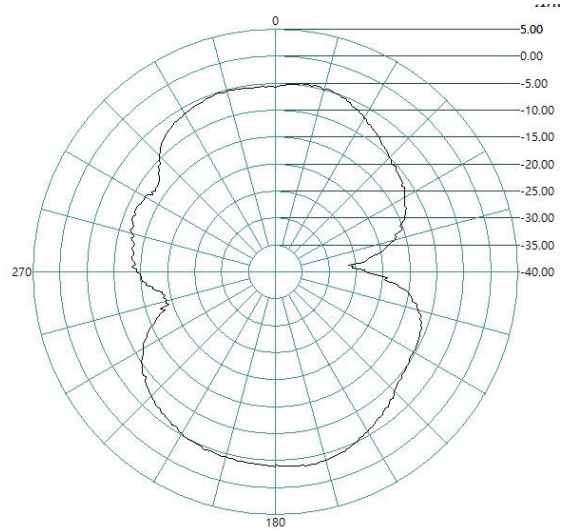


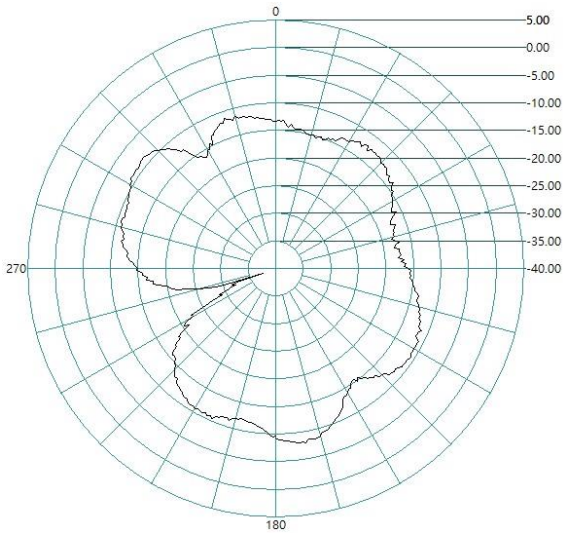
1.9GHz



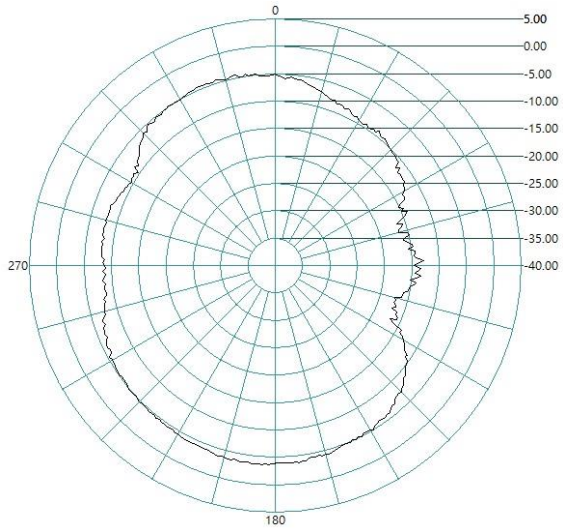


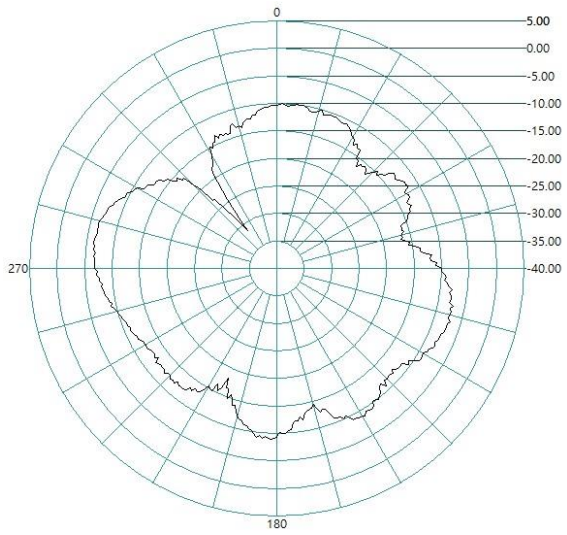
2.1GHz



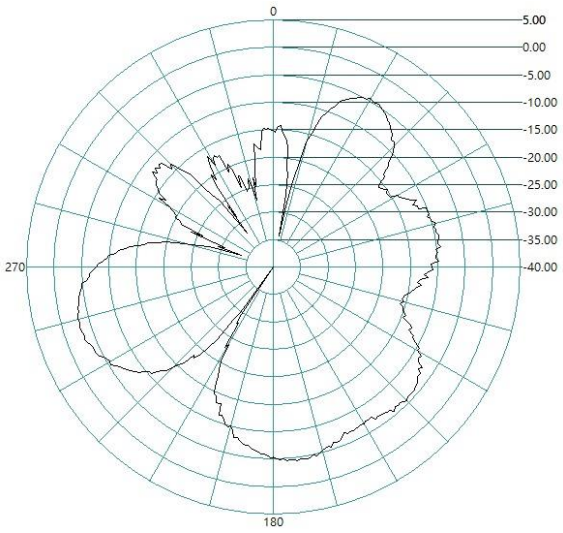


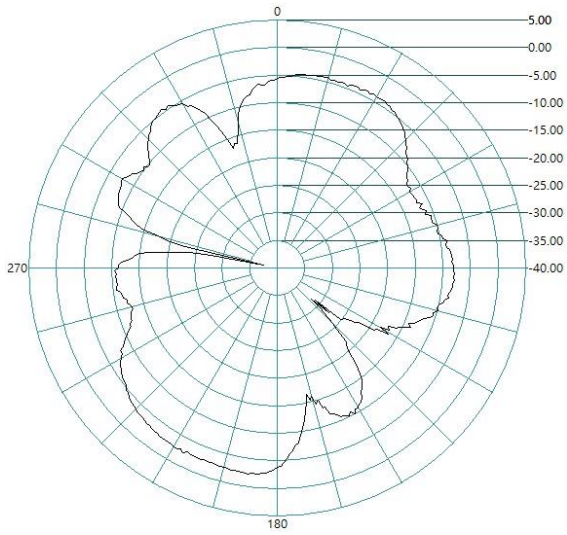
2.4GHz


0
5.00
0.00
-5.00
-10.00
-15.00
-20.00
-25.00
-30.00
-35.00
-40.00
270
180

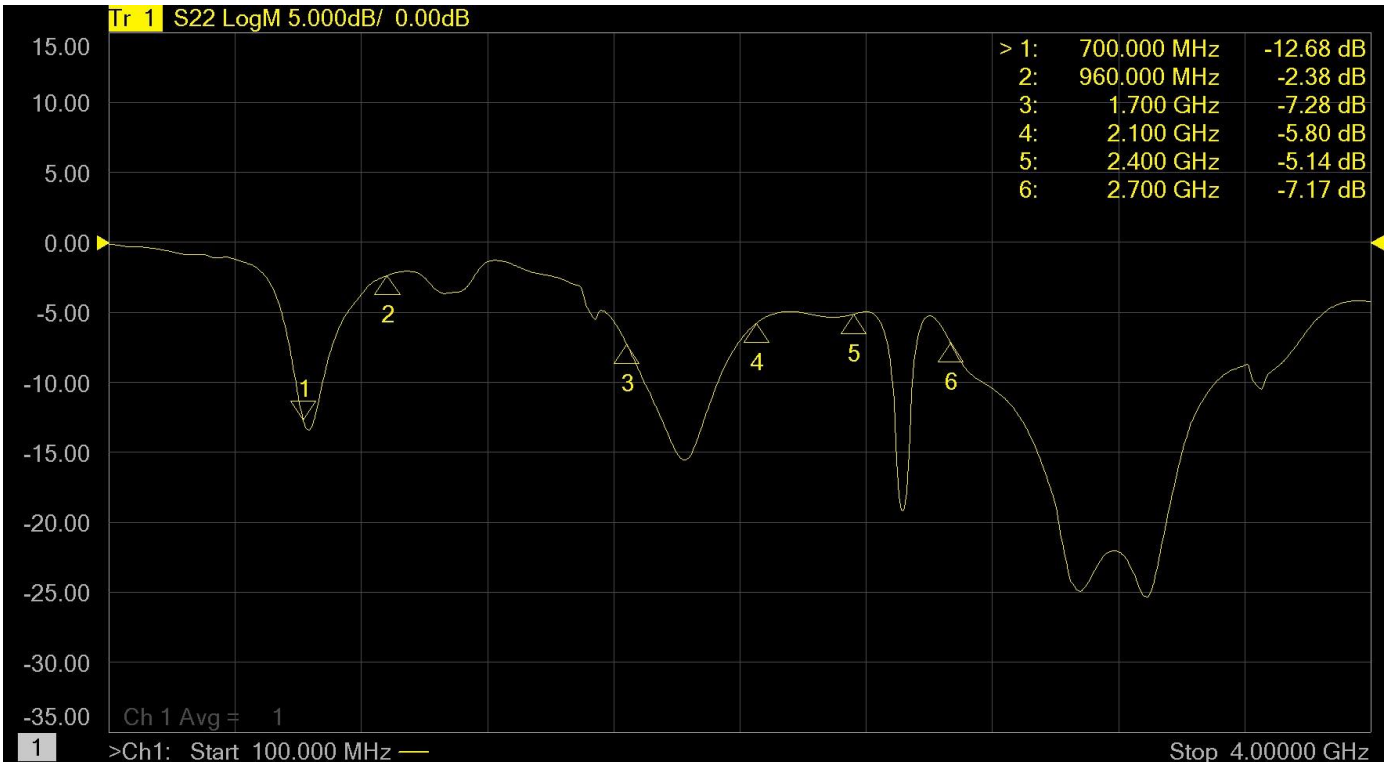

0
5.00
0.00
-5.00
-10.00
-15.00
-20.00
-25.00
-30.00
-35.00
-40.00
270
180

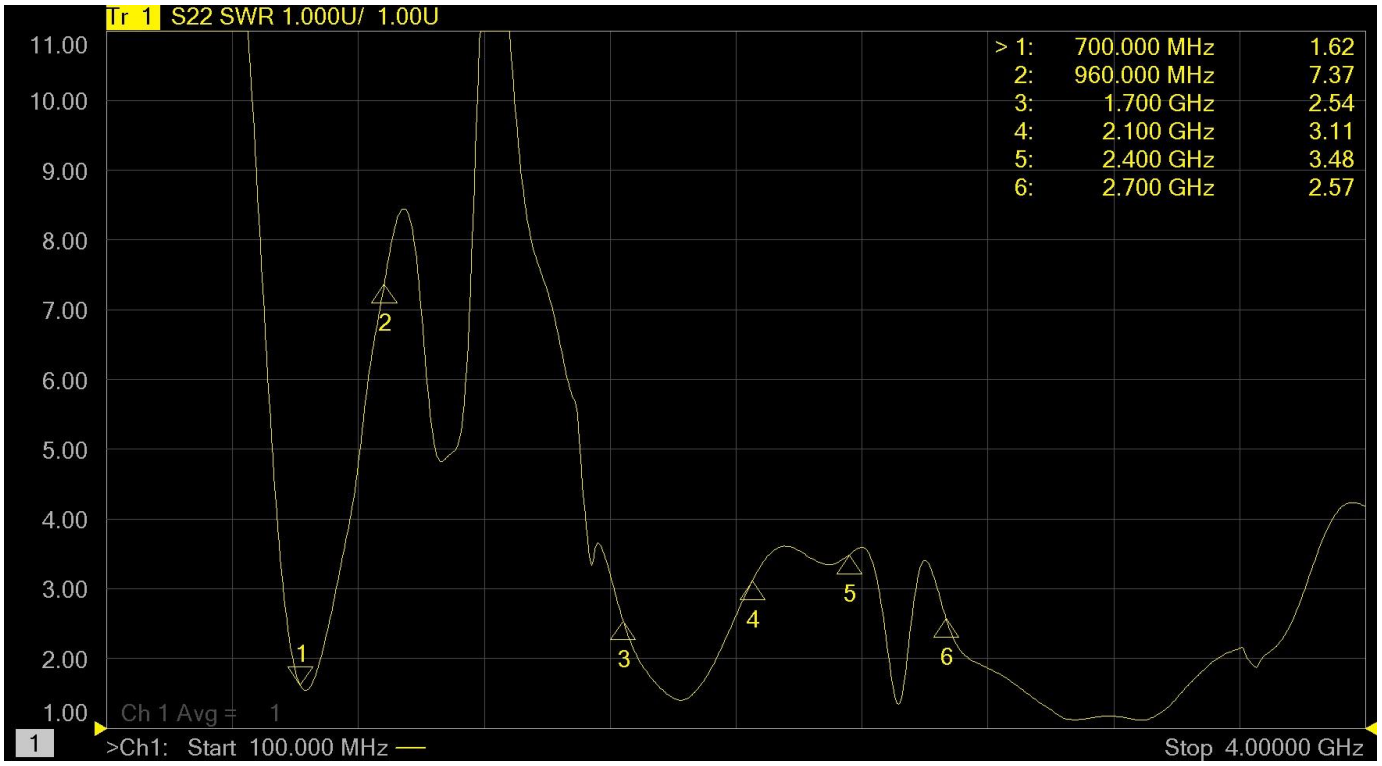
2.7GHz


0
5.00
0.00
-5.00
-10.00
-15.00
-20.00
-25.00
-30.00
-35.00
-40.00
270
180

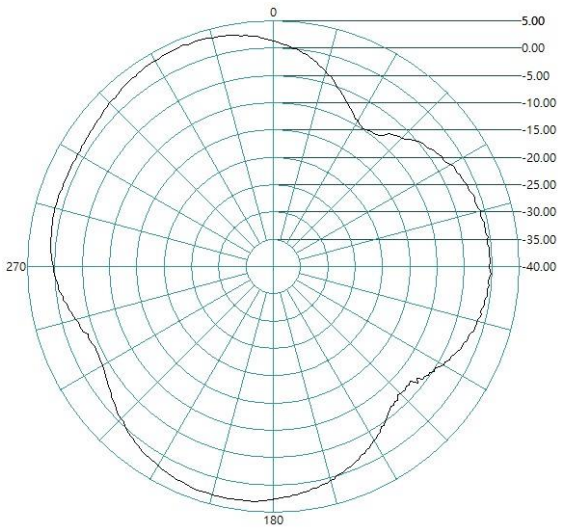
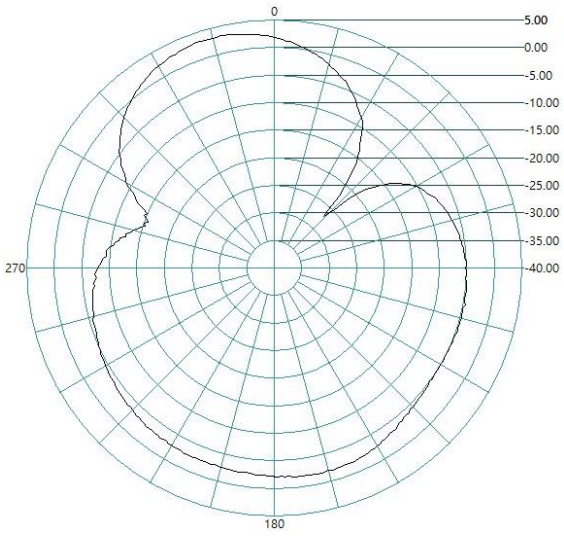
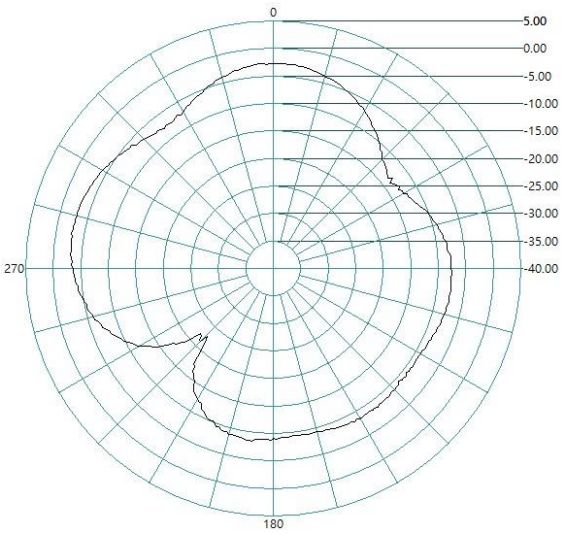
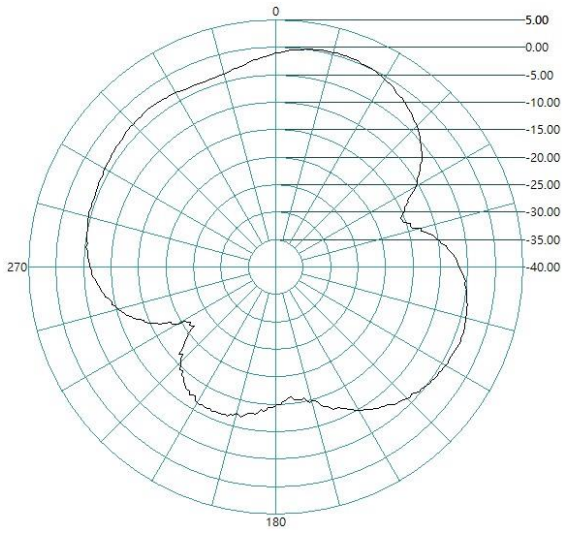
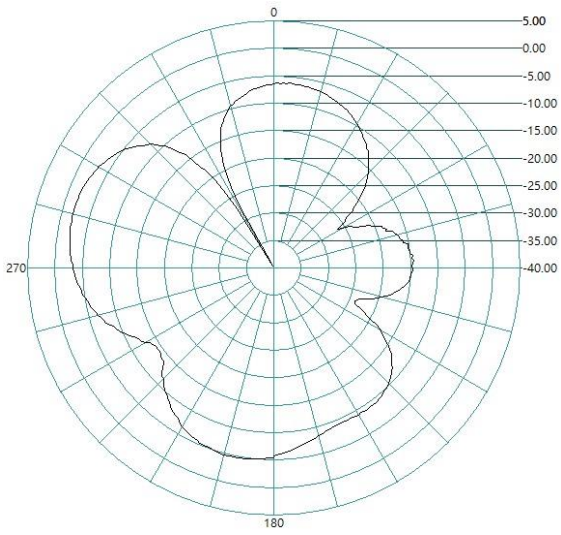
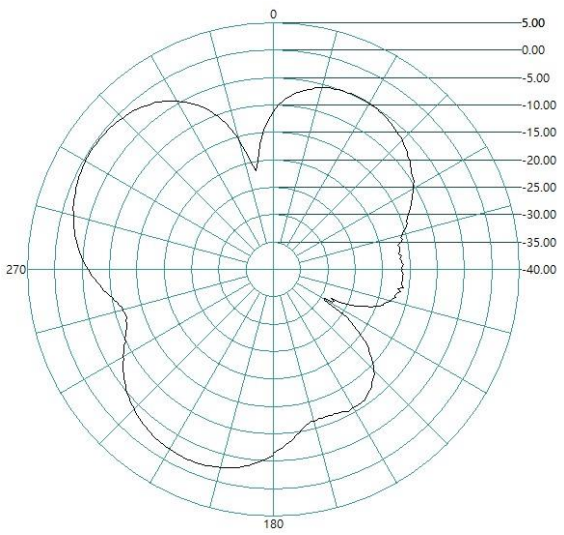

0
5.00
0.00
-5.00
-10.00
-15.00
-20.00
-25.00
-30.00
-35.00
-40.00
270
180

LTE Port 2

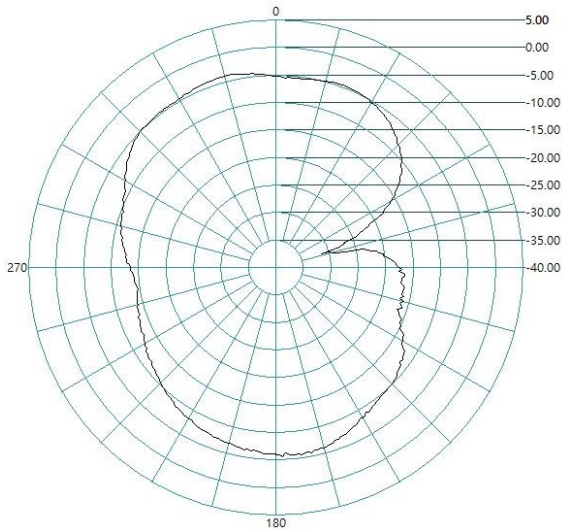

Tr 1 S22 LogM 5.000dB/ 0.00dB
15.00
10.00
5.00
0.00
-5.00
-10.00
-15.00
-20.00
-25.00
-30.00
-35.00
> 1: 700.000 MHz -12.68 dB
2: 960.000 MHz -2.38 dB
3: 1.700 GHz -7.28 dB
4: 2.100 GHz -5.80 dB
5: 2.400 GHz -5.14 dB
6: 2.700 GHz -7.17 dB
Ch 1 Avg = 1
1
>Ch1: Start 100.000 MHz
Stop 4.00000 GHz

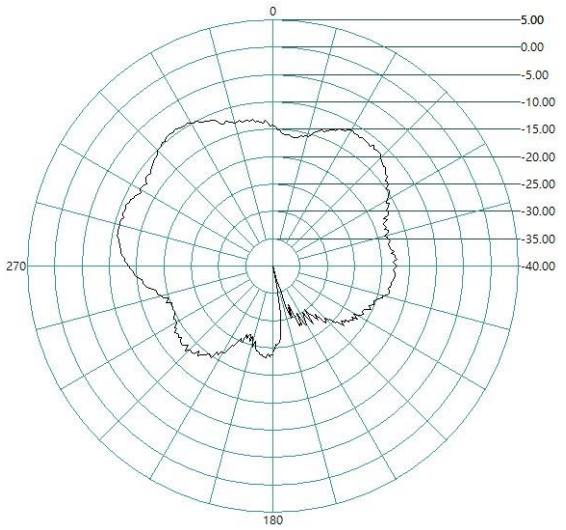

Tr 1 S22 SWR 1.000U/ 1.00U
11.00
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
> 1: 700.000 MHz 1.62
2: 960.000 MHz 7.37
3: 1.700 GHz 2.54
4: 2.100 GHz 3.11
5: 2.400 GHz 3.48
6: 2.700 GHz 2.57
Ch 1 Avg = 1
1
>Ch1: Start 100.000 MHz
Stop 4.00000 GHz

Radiation pattern

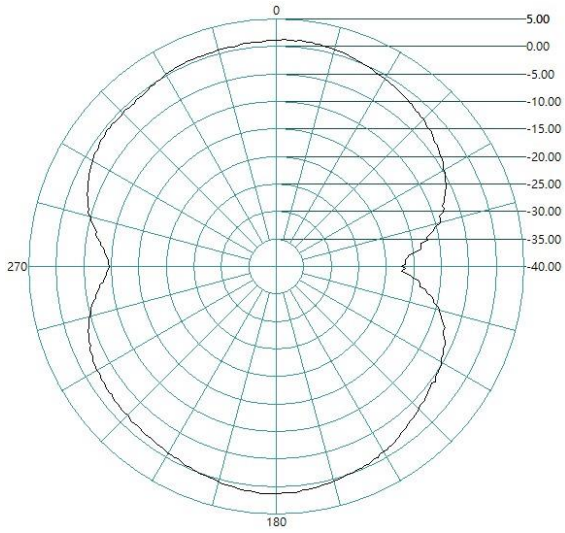
E-plane	H-plane
0.7GHz 	
0.8GHz 	
0.9GHz 	

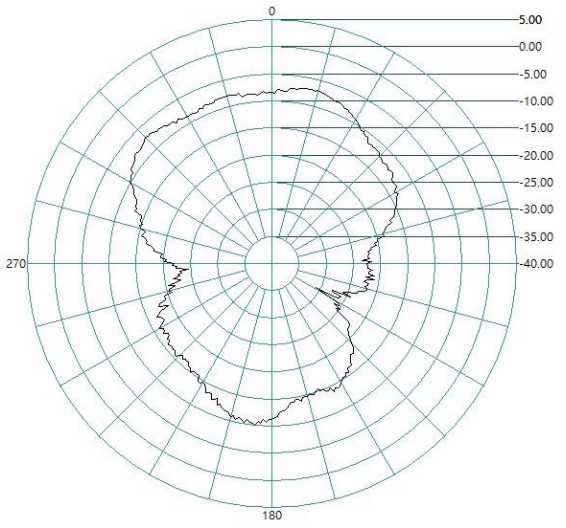
1.7GHz



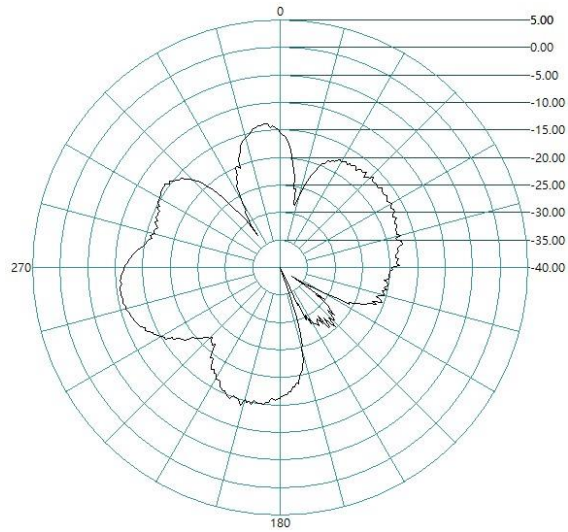


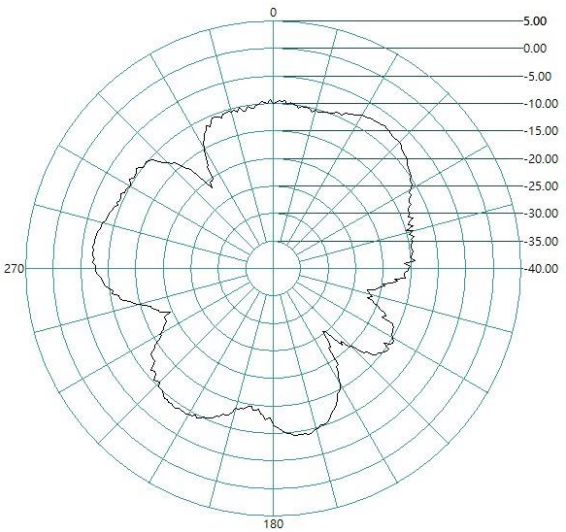
1.9GHz



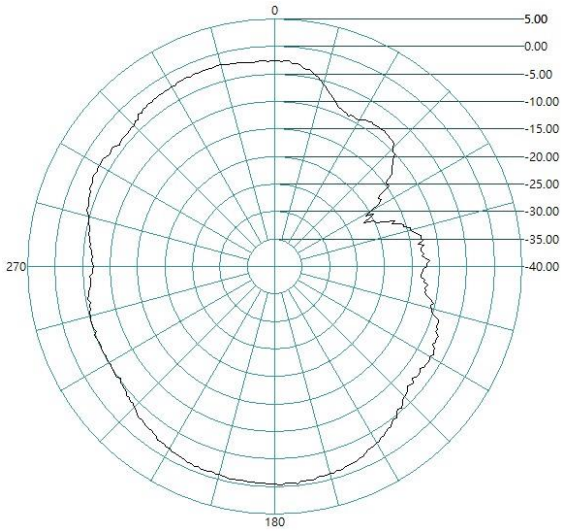


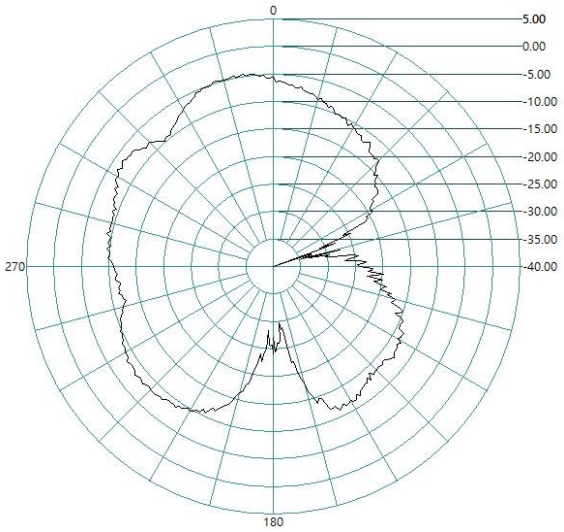
2.1GHz



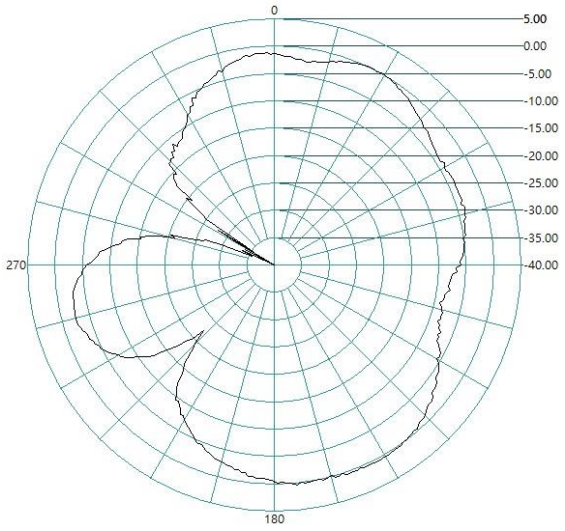


2.4GHz


0
5.00
0.00
-5.00
-10.00
-15.00
-20.00
-25.00
-30.00
-35.00
-40.00
270
180


0
5.00
0.00
-5.00
-10.00
-15.00
-20.00
-25.00
-30.00
-35.00
-40.00
270
180

2.7GHz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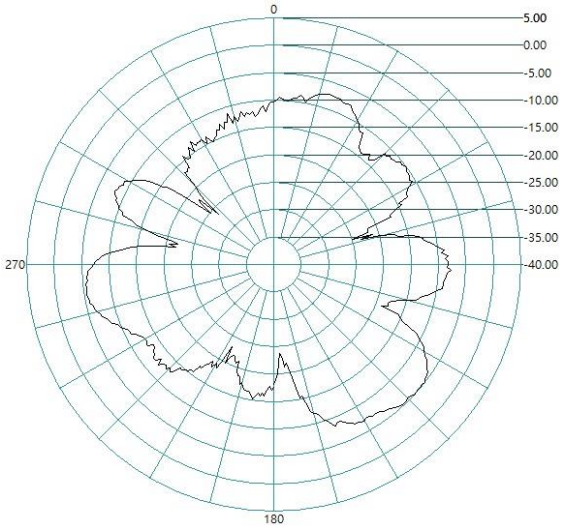
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