

stigwize

Stigwize 5-in-1 Puck Antenna 2x 4G | 2x WiFi | 1x GPS

Product Stigwize 5-in-1 Puck Antenna

SKU STI-PUCK-24G-2WIFI-GPS

EAN 8785285643310

Capestone articlenumber STI20001


RoHS
COMPLIANT



Stigwize 5-in-1 Puck Antenna

With its unique combination of 2x 4G, 2x WiFi and 1x GPS, this antenna offers a comprehensive approach to network connectivity. The Stigwize 5-in-1 Puck Antenna, a versatile and cost-effective connectivity solution designed to meet the diverse needs of businesses in the modern world.

Features

- Type: PUCK antenna
- 3G/4G: Frequency & Gain: 700-960MHz & 1700-2700MHz Gain 1-4 dBi
- WiFi Frequency: 2400-2500Mhz - 5100-5800Mhz Gain 2-3 dBi
- GPS: 1575 MHz 28dBi
- Cables and Connector: 5x 3 RG174 meters (SMA)
- Voltage Standing Wave Ratio: ≤ 2.5
- Dimensions HxWxD (cm): High 8.2 x Wide 8 x Depth 8 cm

Key features

- 4G connectivity: With two 4G antennas, businesses can ensure robust and fast mobile network access, enabling seamless data transfer and communication.
- WiFi support: The addition of two WiFi antennas increases the versatility of this antenna, allowing wireless data access and local network connections.
- GPS precision: The built-in GPS antenna provides accurate location data, making it ideal for applications that require accurate geolocation information.
- Compact design: the compact and robust design of the Stigwize 5-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:** Companies operating a fleet of vehicles can take advantage of this antenna's GPS functionality to track the real-time location of their assets. The combination of 4G and WiFi 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 5-in-1 Puck antenna can provide both 4G mobile and WiFi connectivity. This makes it suitable for applications such as remote equipment monitoring, predictive maintenance and data collection.
- **Public transportation systems:** Public transportation services, such as buses and trains, can use this antenna for WiFi access for passengers and real-time tracking using GPS. 4G connectivity allows passengers to stay connected throughout their journey, while GPS enables accurate tracking and planning.
- **Outdoor surveillance and security:** Outdoor surveillance cameras and security systems often require remote connectivity. The robust design of this antenna, combined with its 4G and WiFi capabilities, can support surveillance cameras in remote locations. GPS functionality can help geotag incidents and asset tracking.
- **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 WiFi connections enable data exchange for crop monitoring and equipment management, while GPS provides accurate maps and navigation. These usage scenarios highlight the versatility of the Stigwize 5-in-1 Puck antenna, making it an essential tool for various industries and applications that require reliable and versatile connectivity solutions.



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.

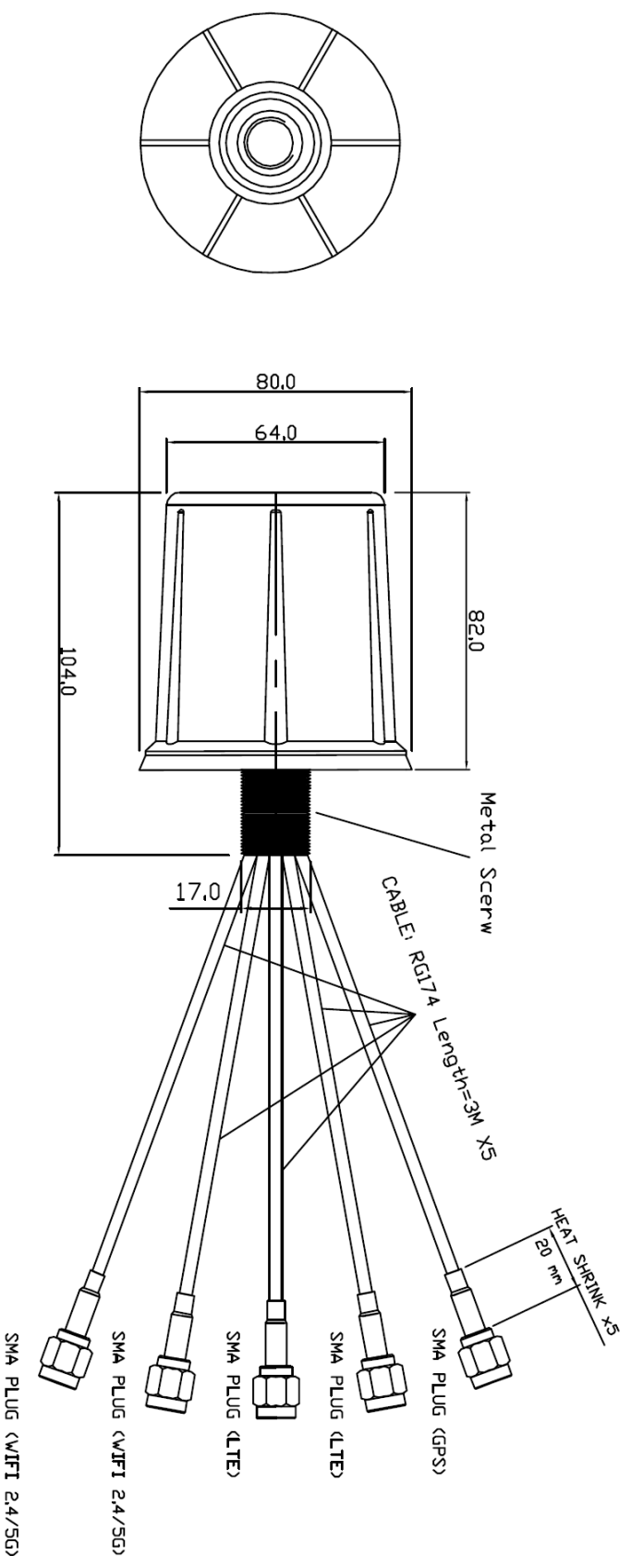
When stigmatizing profits, in addition to favorable pricing, there are also various other benefits including a 24-month warranty and a direct SWAP policy. Capestone's engineers can also put together custom antennas for projects, so that you always have the most suitable solution, as you have come to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

Specification STI-PUCK-24G-WiFi-GPS	
Model No.	STI-PUCK-24G-2WIFI-GPS
Antenna Type	Roof Screw Mount
Antenna Size	L82xW80xH104 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.	<=3.5
Polarization	Linear Vertical
Cable Connector (LTE)	SMA PLUG
Coaxial Cable	RG174 Length=3M

LTE	
Gain (dBi)	1-4 dBi
Frequency	700-960 /1700-2700MHz
V.S.W.R.	<=2.5
Polarization	Linear Vertical
Cable Connector (LTE)	SMA PLUG
Coaxial Cable	RG174 Length=3M
WiFi (2.4-2.5G /5.1-5.8G)	
Gain (dBi)	2-3 dBi
Frequency	2400-2500 /5100-5800MHz
V.S.W.R.	<=2.5
Polarization	Linear Vertical
Cable Connector (WIFI)	SMA PLUG
Coaxial Cable	RG174 Length=3M
WiFi (2.4-2.5G /5.1-5.8G)	
Gain (dBi)	2-3 dBi
Frequency	2400-2500/5100-5800 MHz
VSWR	< 2.5
Polarization	Linear Vertical
Cable Connector (WIFI)	SMA PLUG
Coaxial Cable	RG174 Length=3M

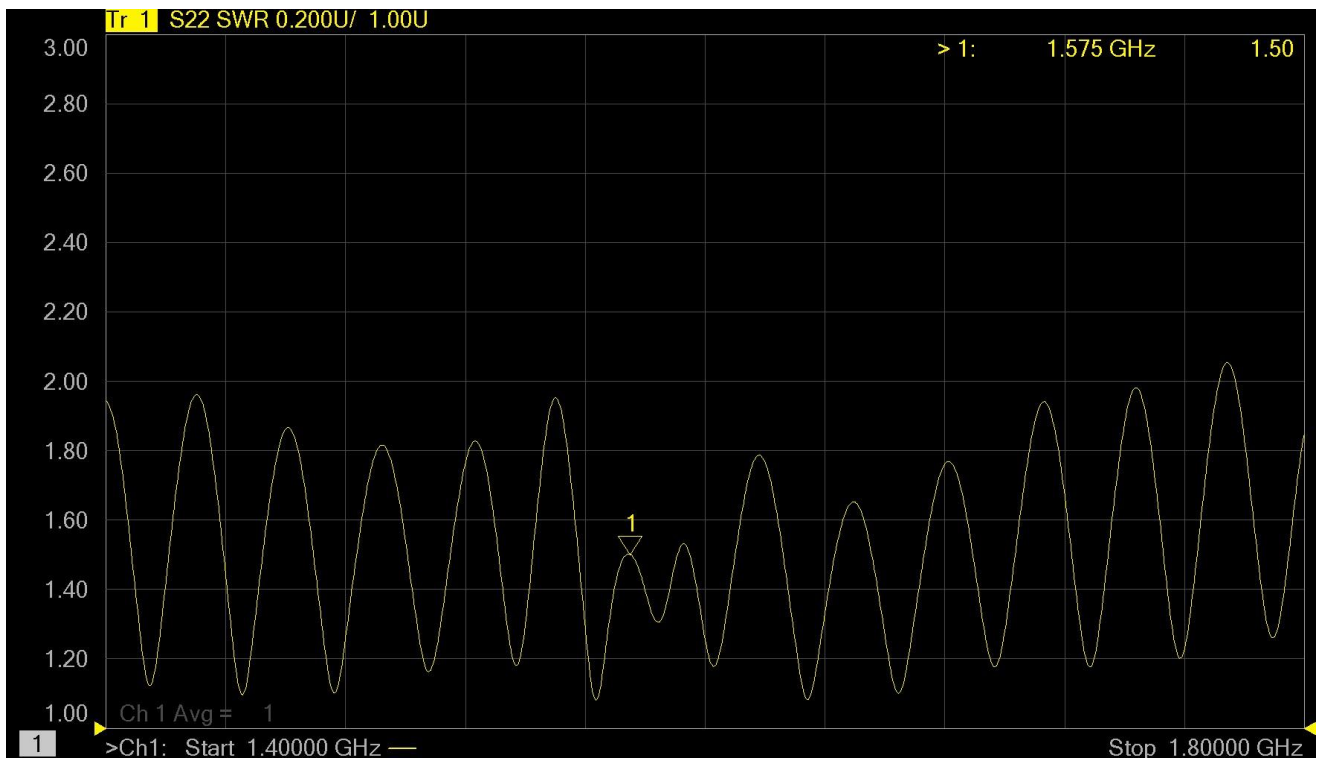
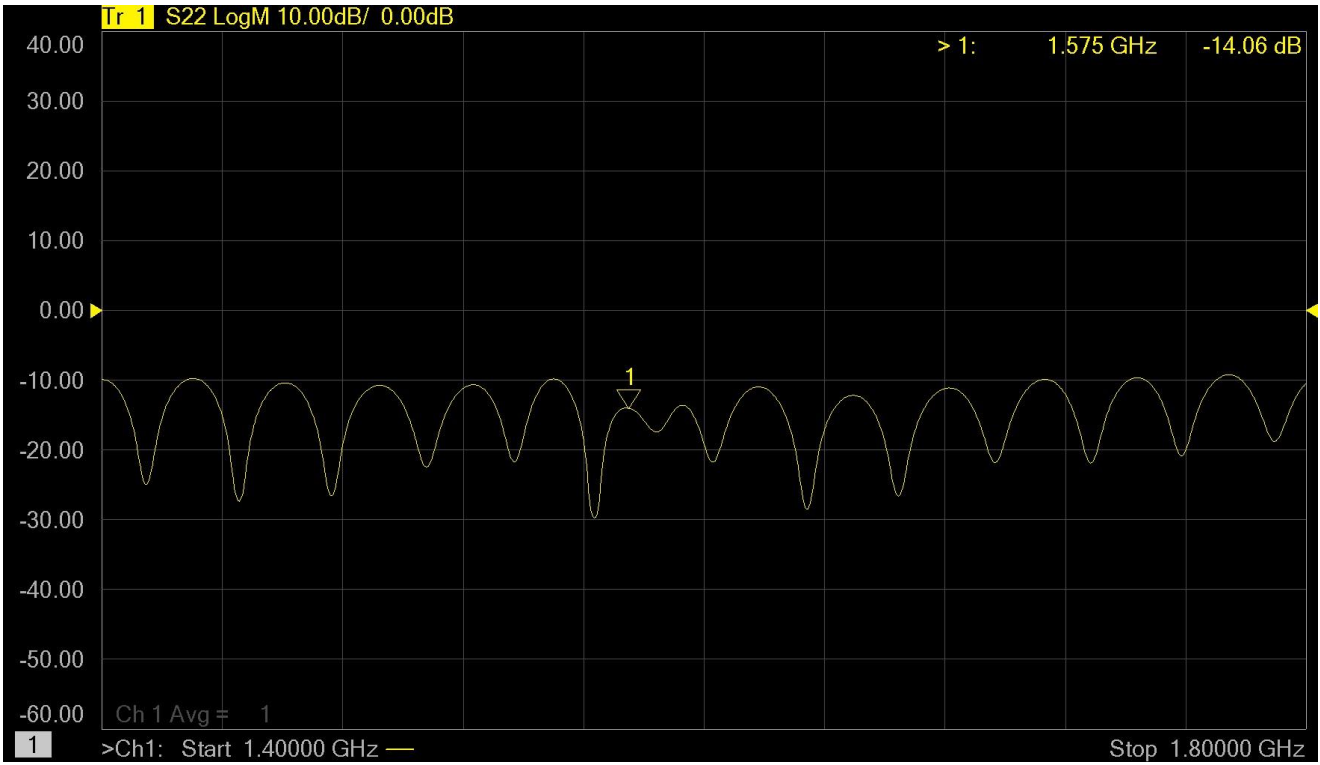
GPS	
Ceramic Path Specification	
Operating Frequency	T1 1575.42±1.023MHz
Output Impedance	50 ohms
Polarization	R.H.C.P.
Bandwidth	10 MHz min. @S11<=-10 dB
Gain at 10° elevation	-1 dBic Typ.
Axial Ratio	3.0 dB Typ.
LNA/Filter Specification	
Operating Frequency	T1 1575.42±1.023 MHz
Gain	28 Db Typ.
Noise 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=3M
Cable Connector (GPS)	SMA PLUG

GPS ACTIVE/LTE(700–960MHz/1700–2700MHz 1–4dBi)x2/WIFI(2.4G/5.1–5.8G 2–3dBi)x2 5 IN 1 80x82mm
 Circle Roof with Metal Scerw+RG174(3M) x5+SMA PLUG(GPS)+SMA PLUG(LTE)+SMA PLUG(LTE)+SMA PLUG(WIFI 2.4/5G)
 +SMA PLUG(WIFI 2.4/5G) (with gap washer 7mm, od 28mm+gap nut 7mm, hex 19mm)

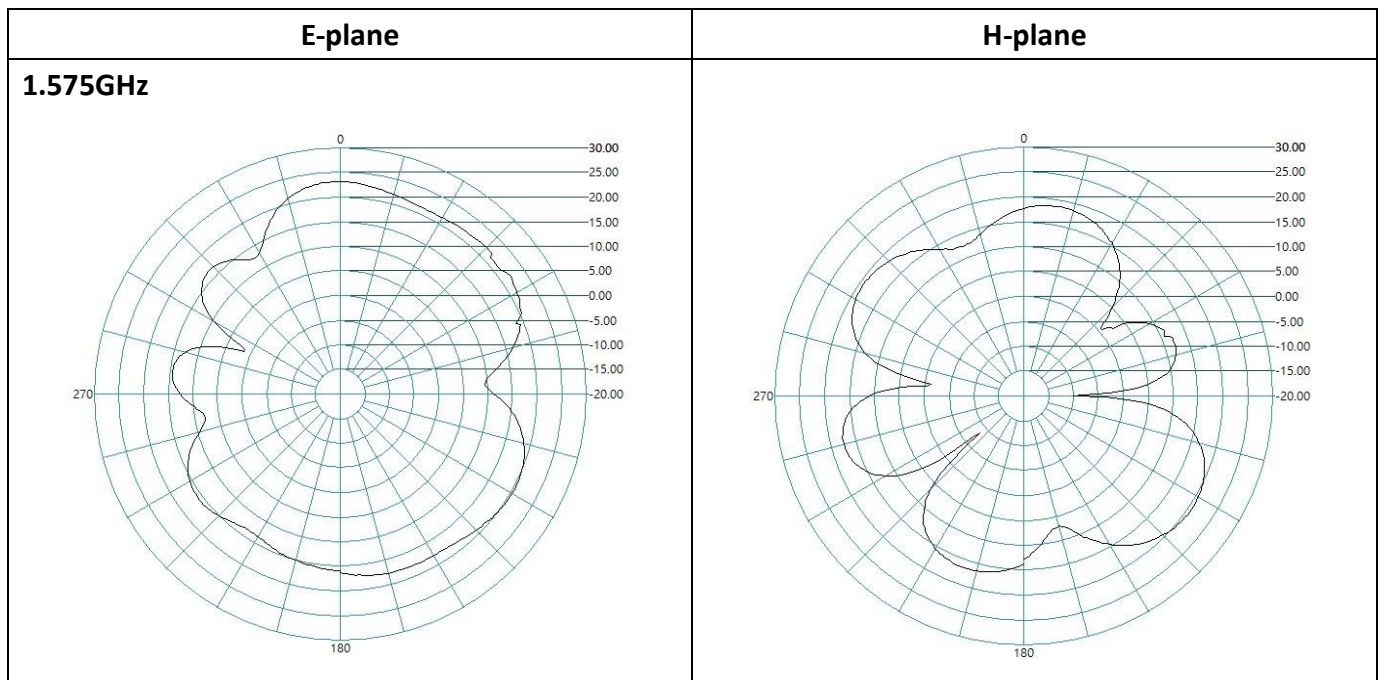


1	FREQUENCY : GPS(1575MHz) x1/LTE 700–960 and 1700–2700MHz x2/WIFI 2400–2500 and 5100–5800MHz X2	6	IMPEDANCE : 50Ω
2	GAIN : GPS 28dB x1/LTE 1–4dBi x2/WIFI 2–3 dBi x2	7	
3	V.S.W.R : <2.5	8	
4	CABLE LENGTH : RG174 L=3M X5	9	
5	CONNECTOR : SMA PLUG (GPS), SMA PLUG (LTE), SMA PLUG (LTE), SMA PLUG (WIFI 2.4/5G), SMA PLUG (WIFI 2.4/5G)	10	

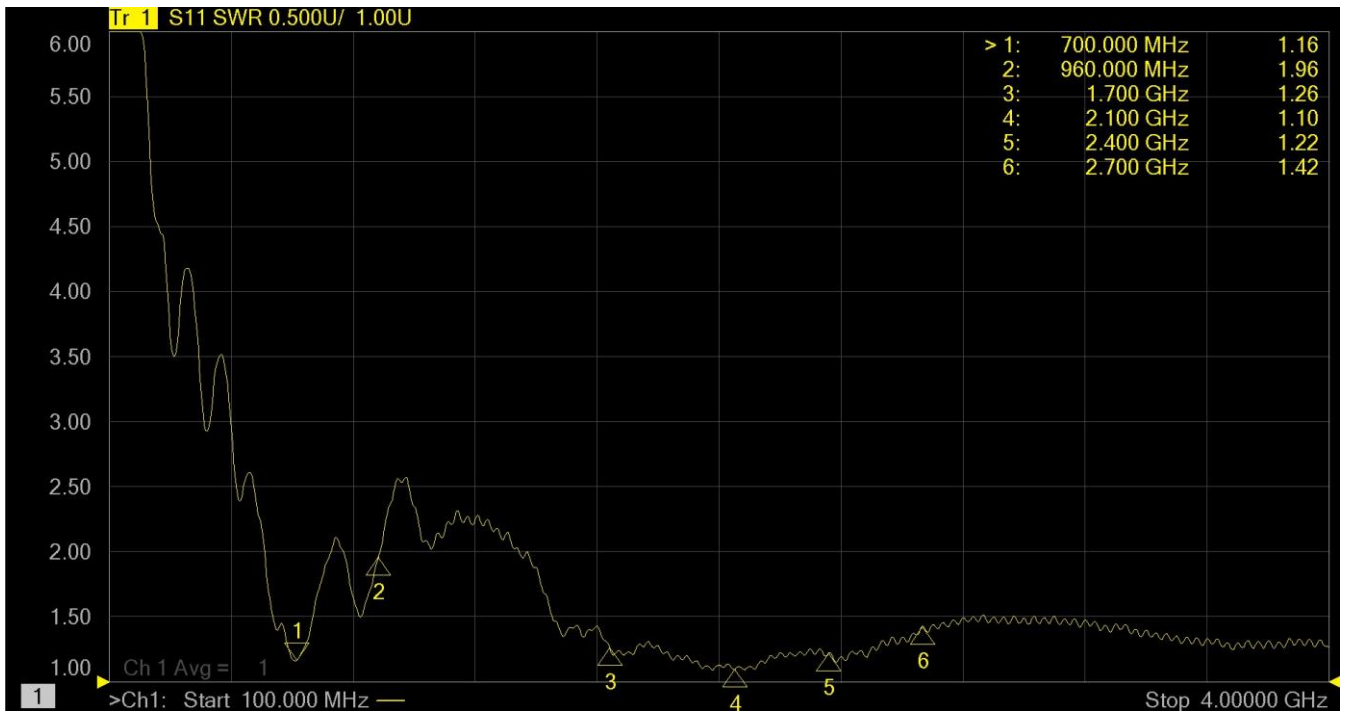
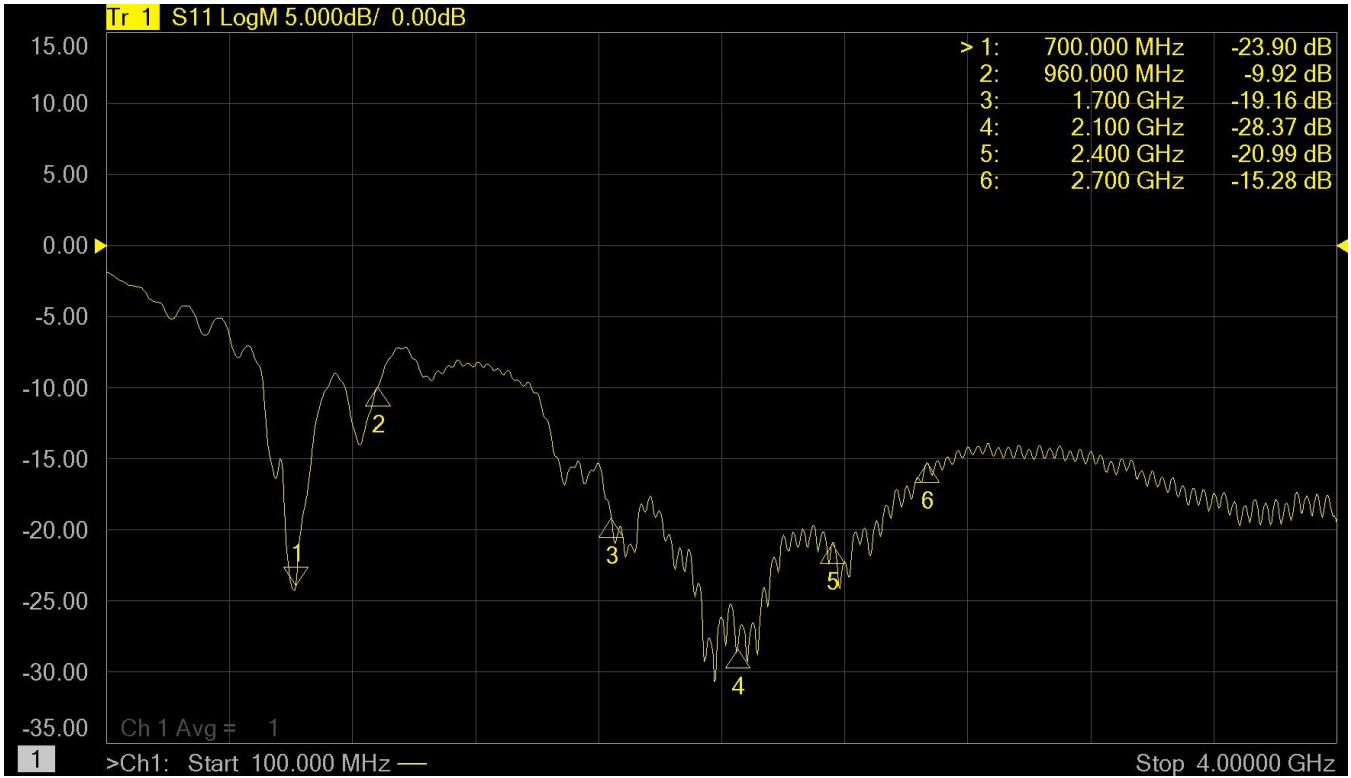
GPS Port



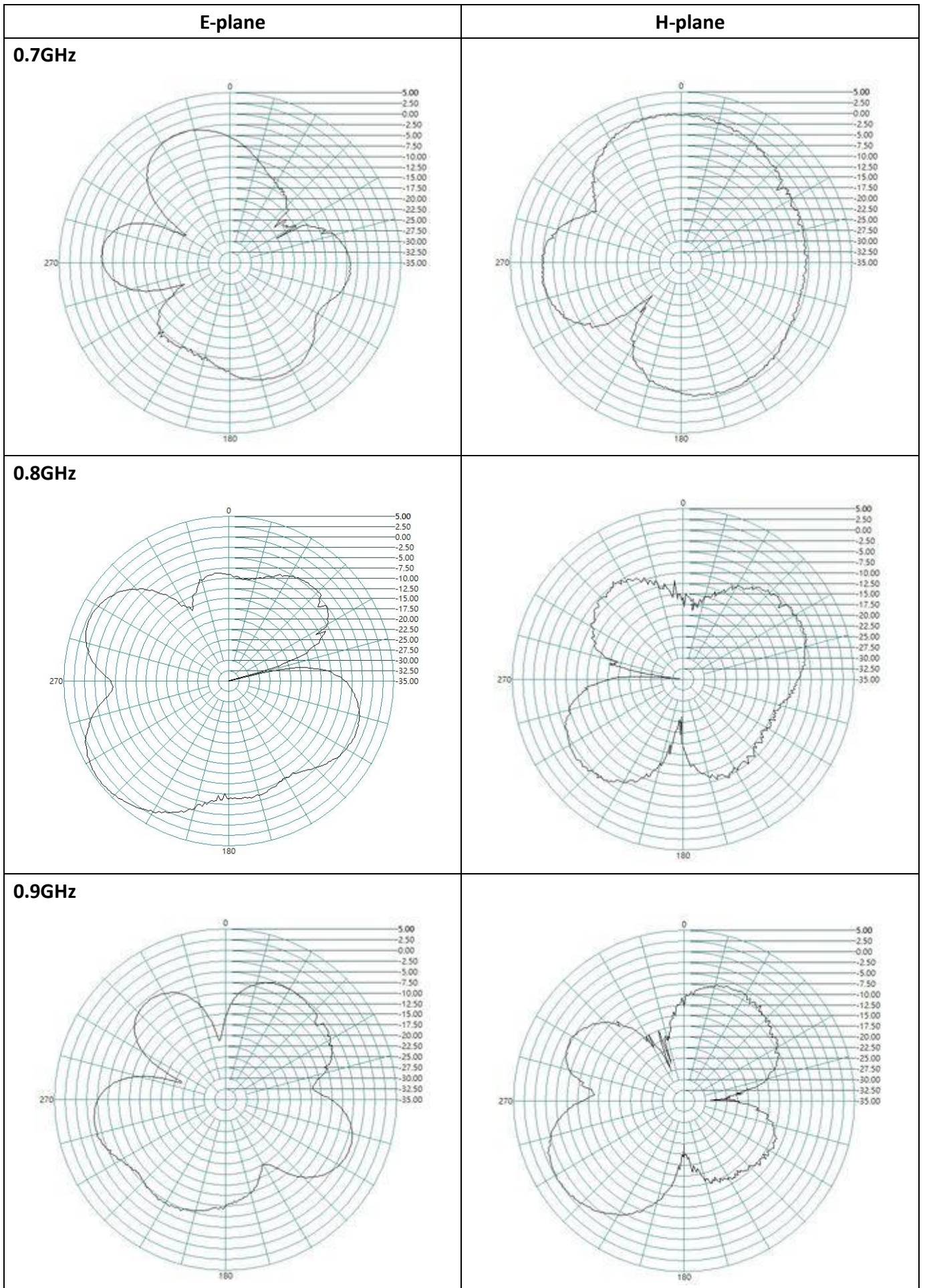
GPS Port Radiation pattern



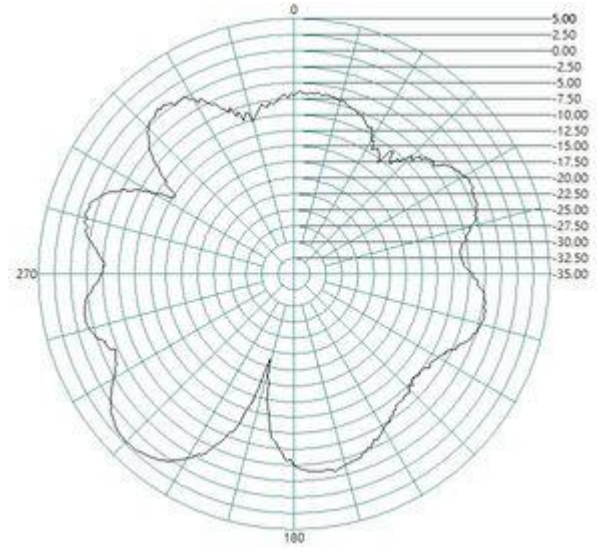
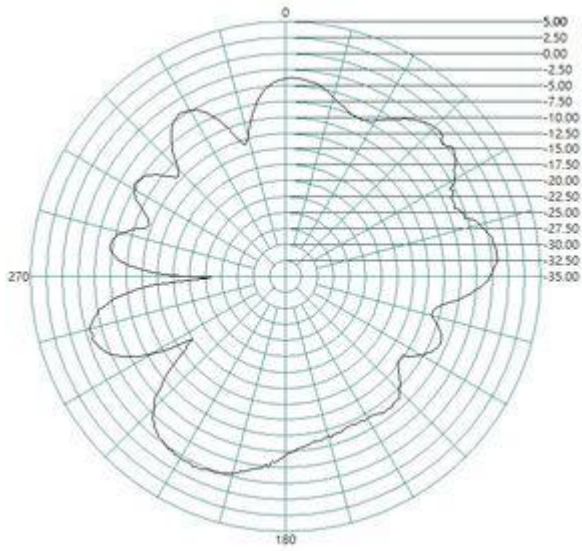
LTE Port 1



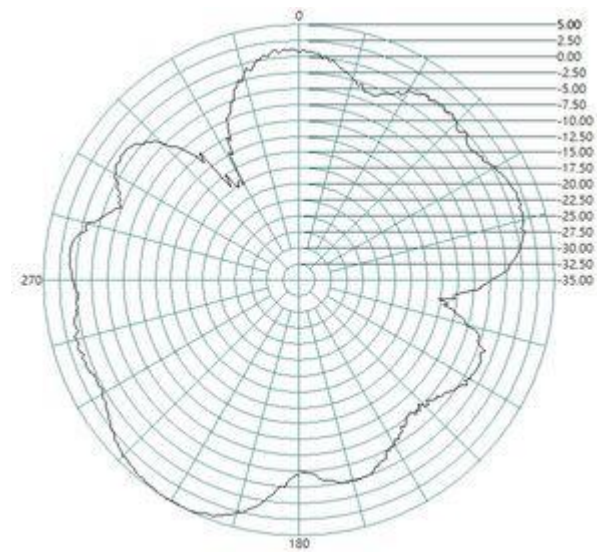
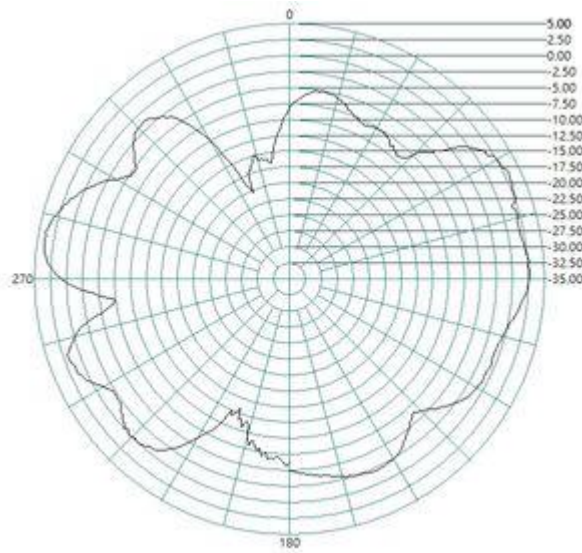
LTE Port 1 Radiation pattern



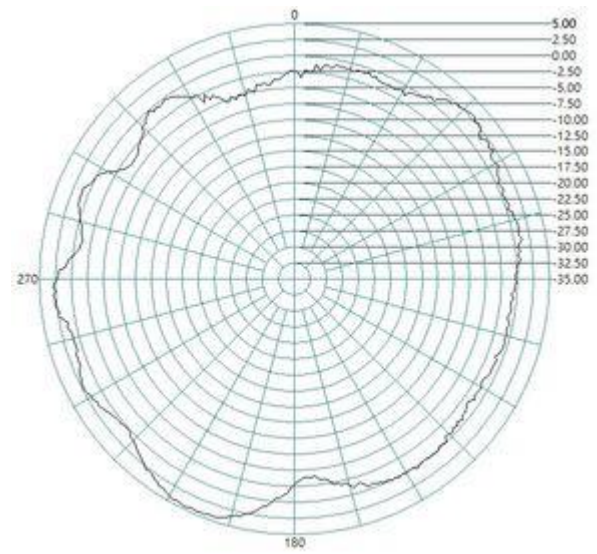
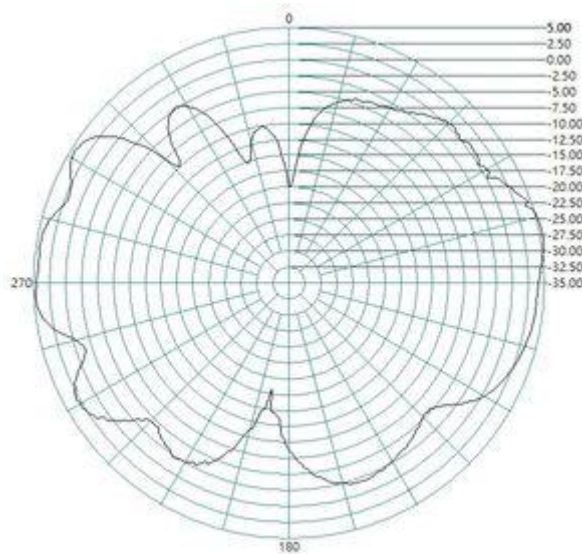
1.7GHz



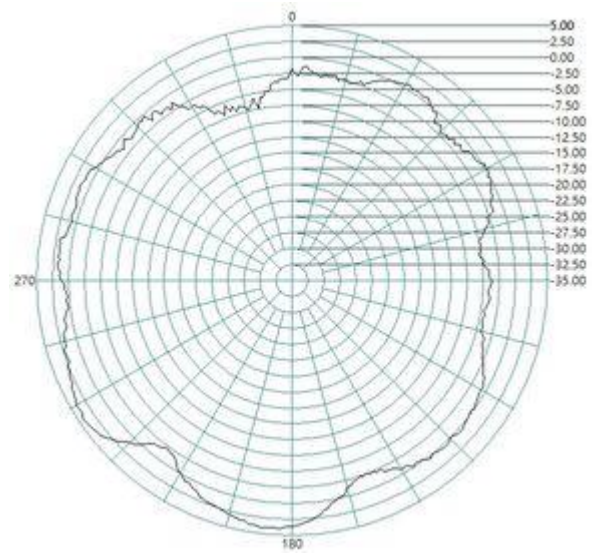
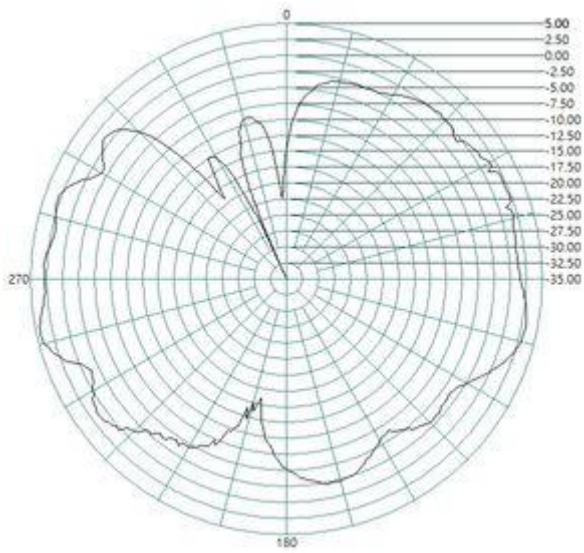
1.9GHz



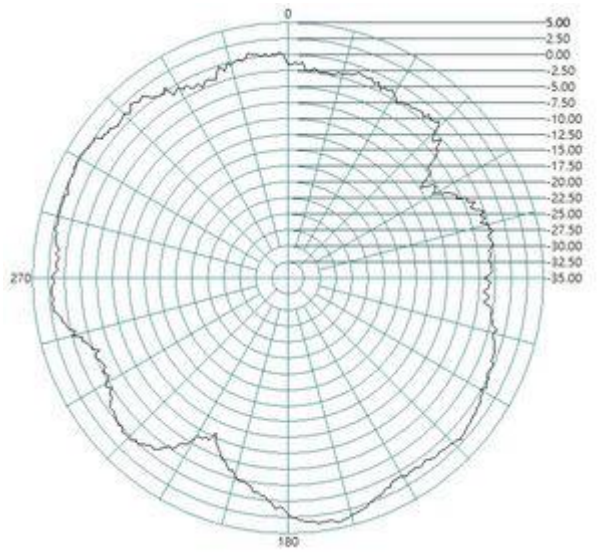
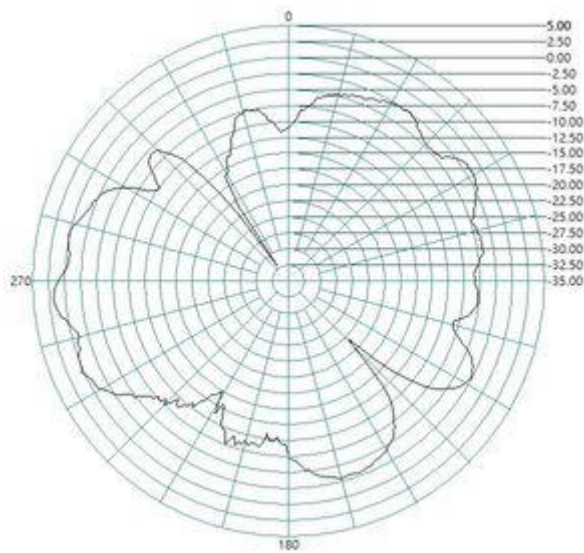
2.1GHz



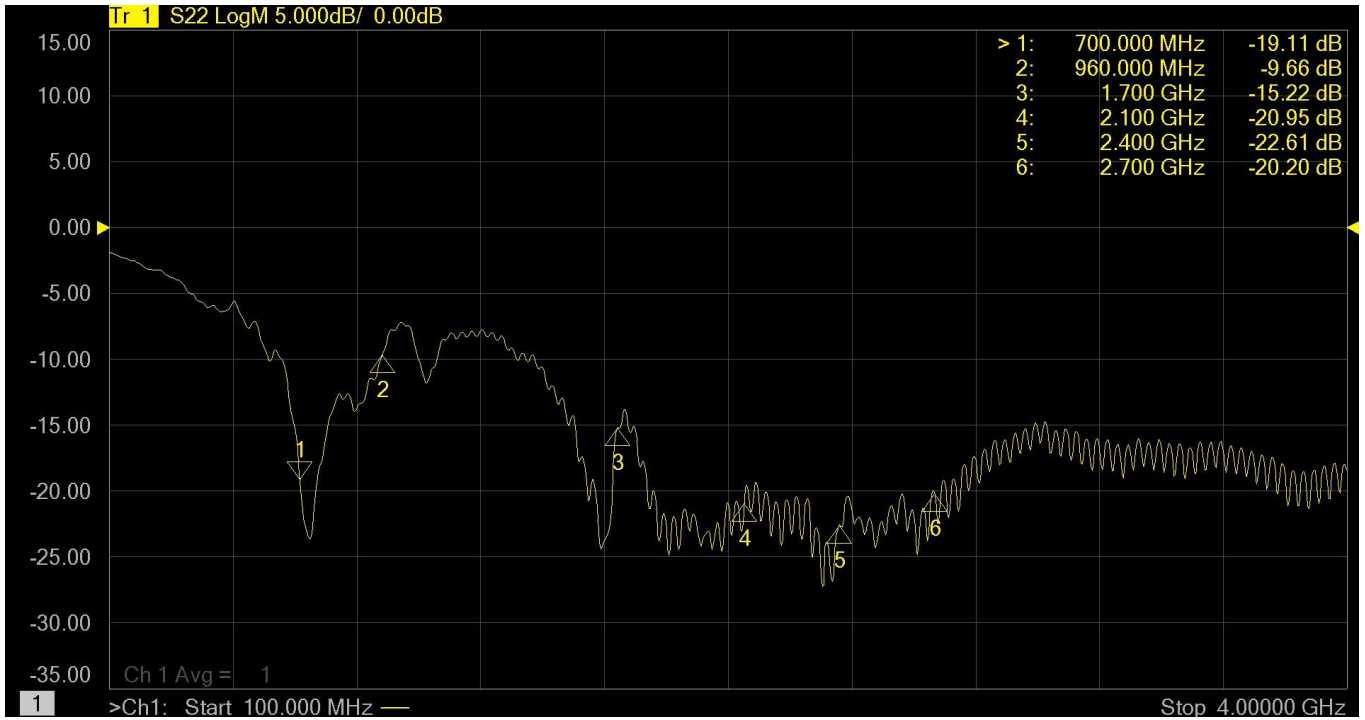
2.4GHz



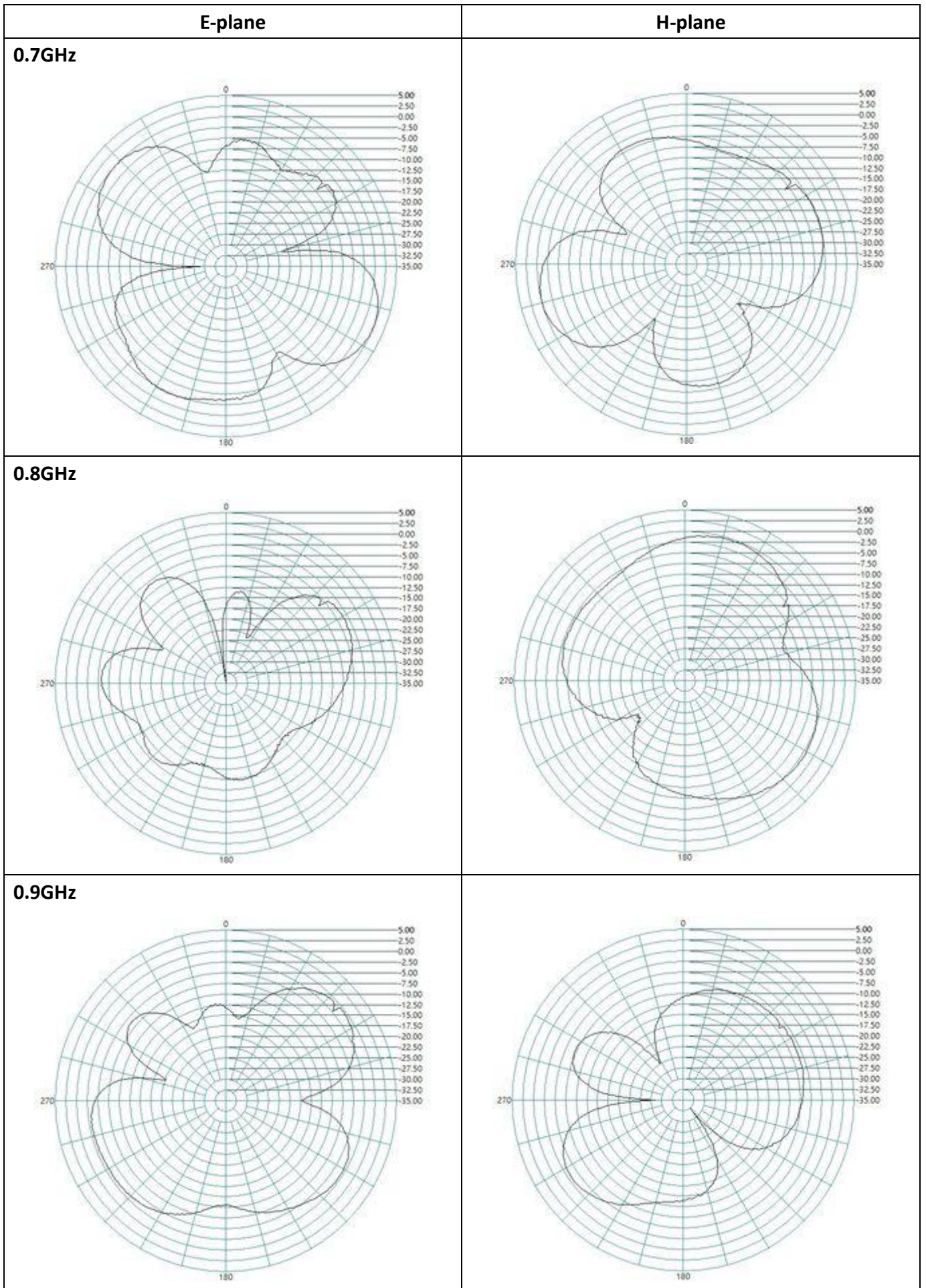
2.7GHz



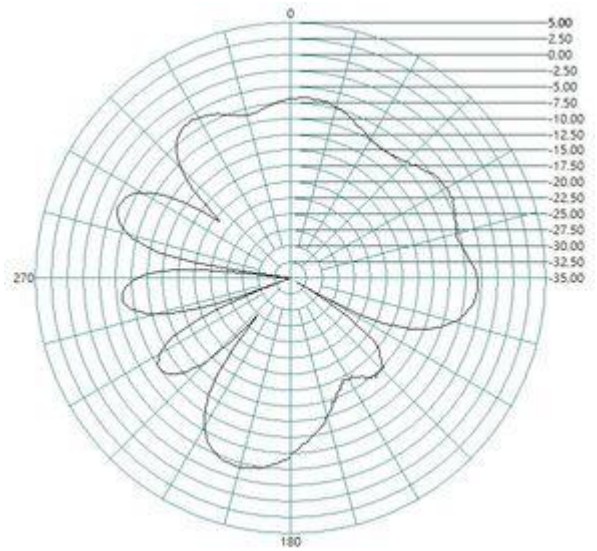
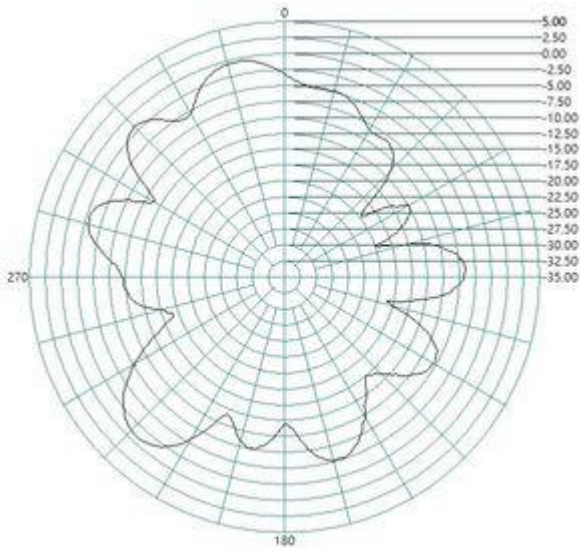
LTE Port 2



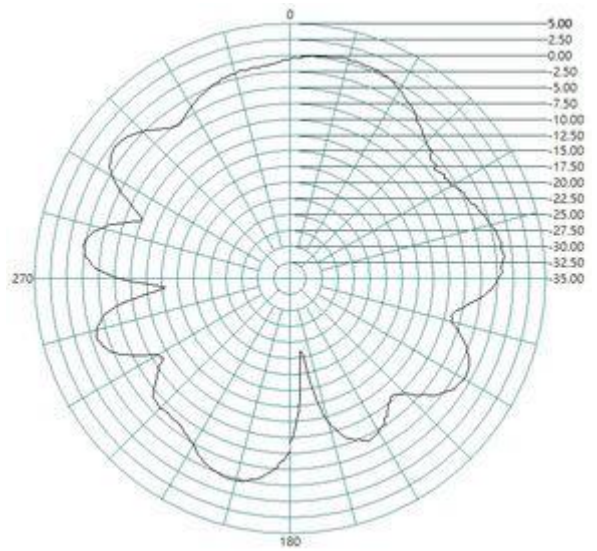
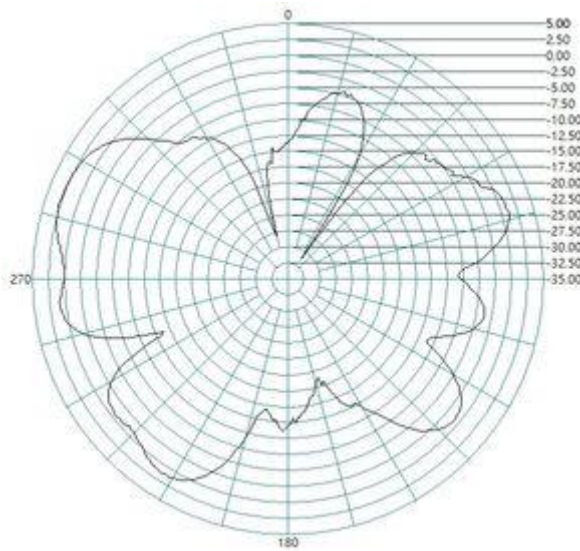
LTE Port 2 Radiation pattern



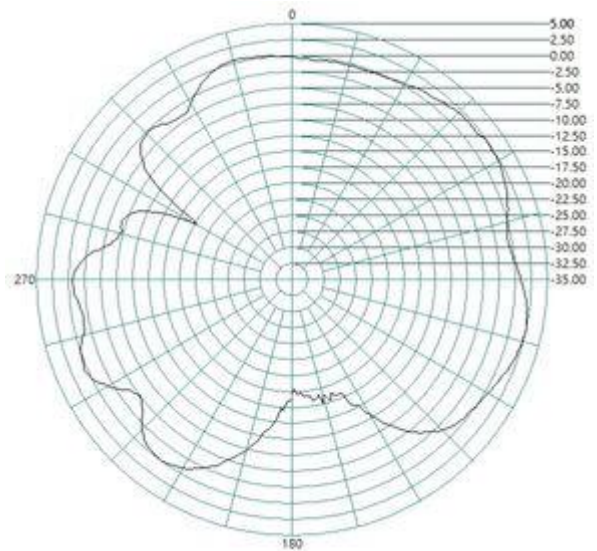
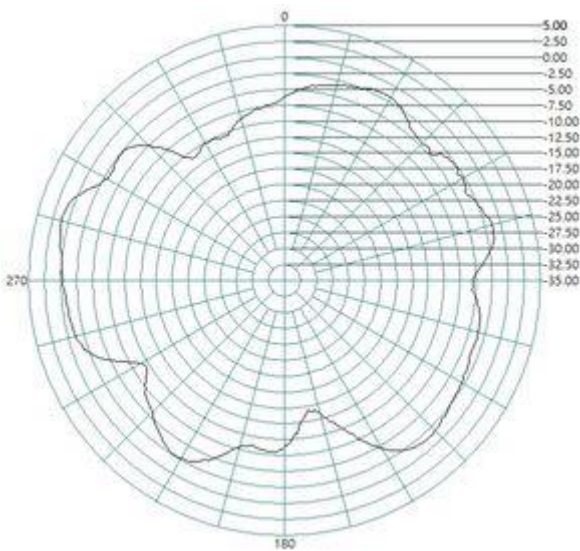
1.7GHz



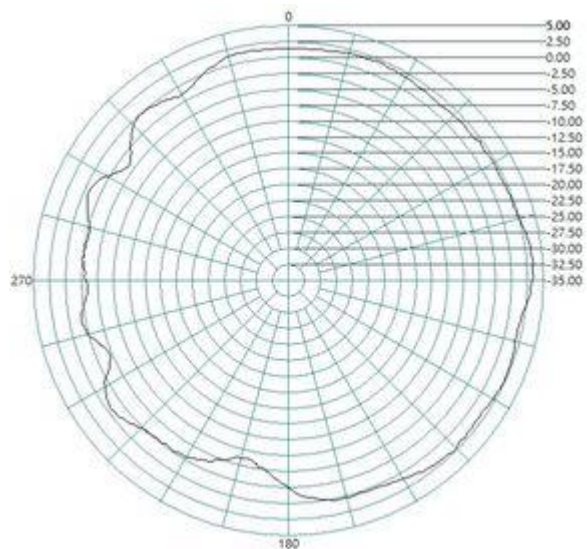
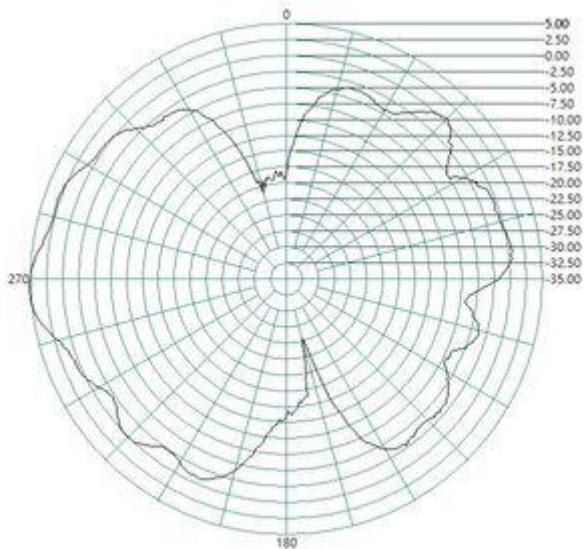
1.9GHz



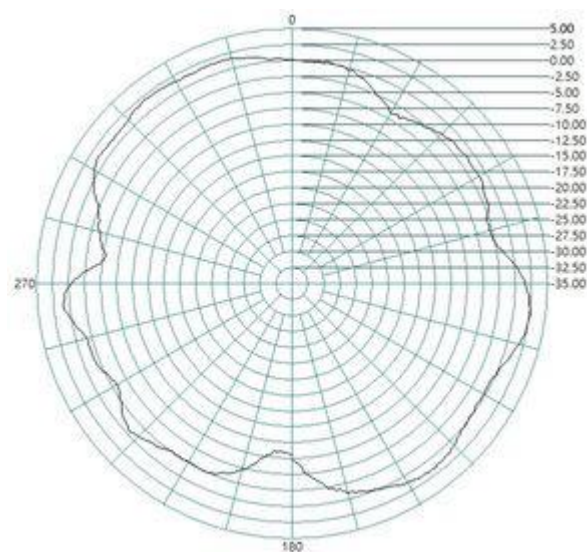
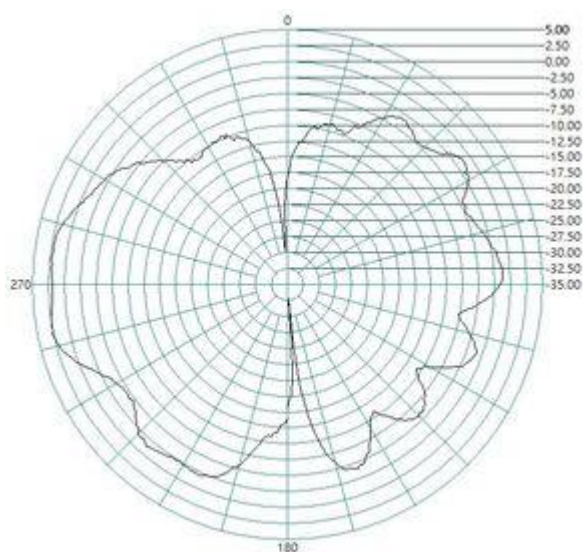
2.1GHz



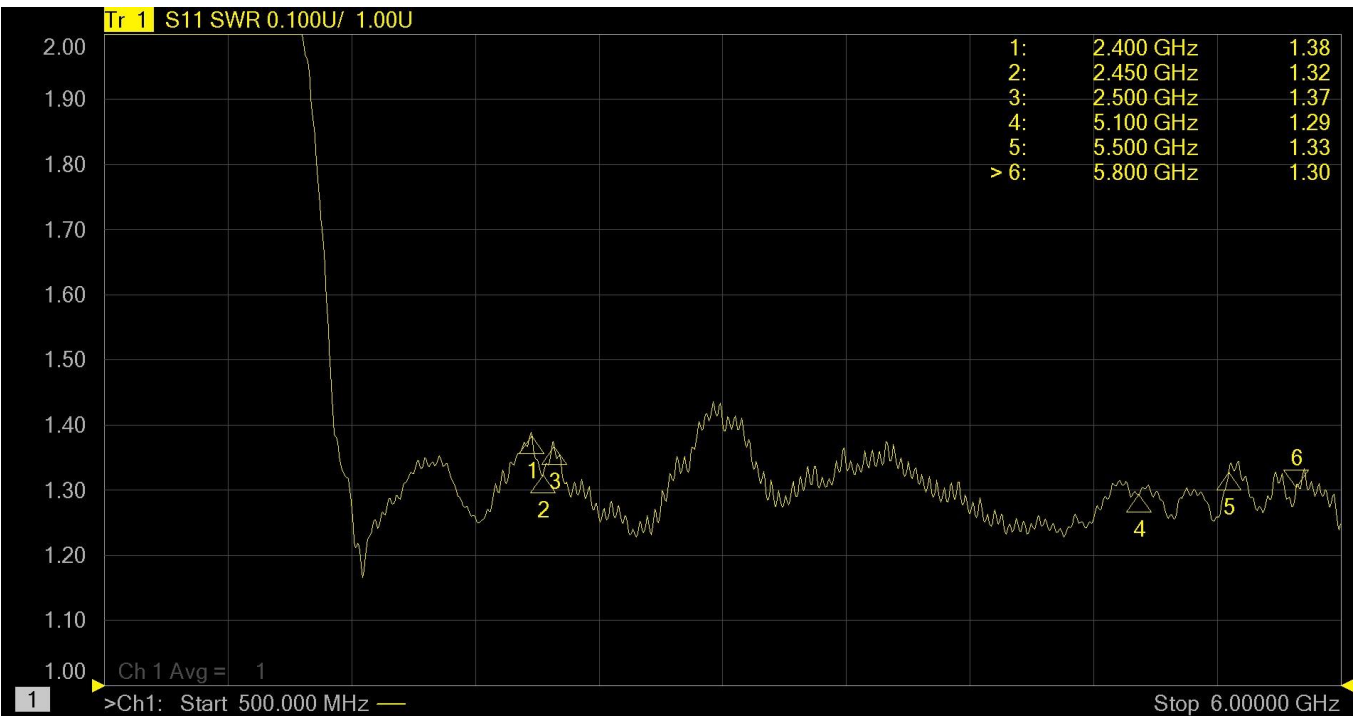
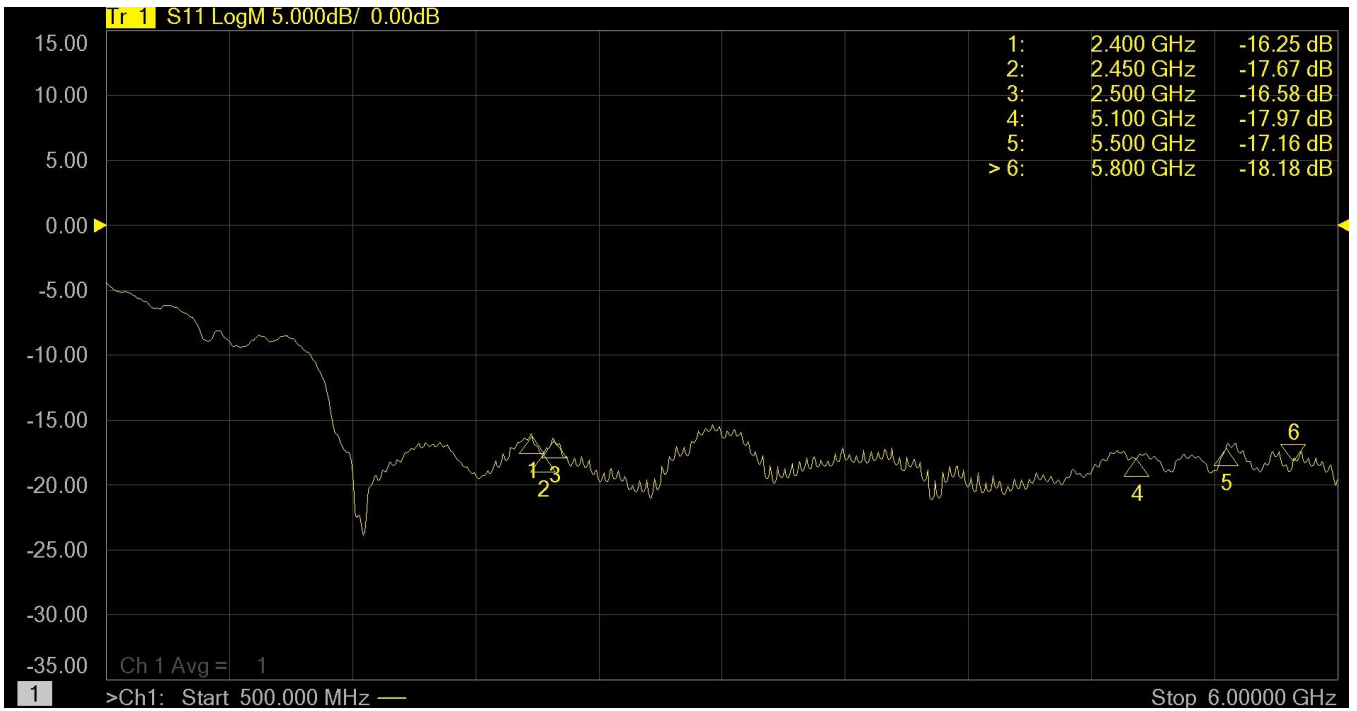
2.4GHz



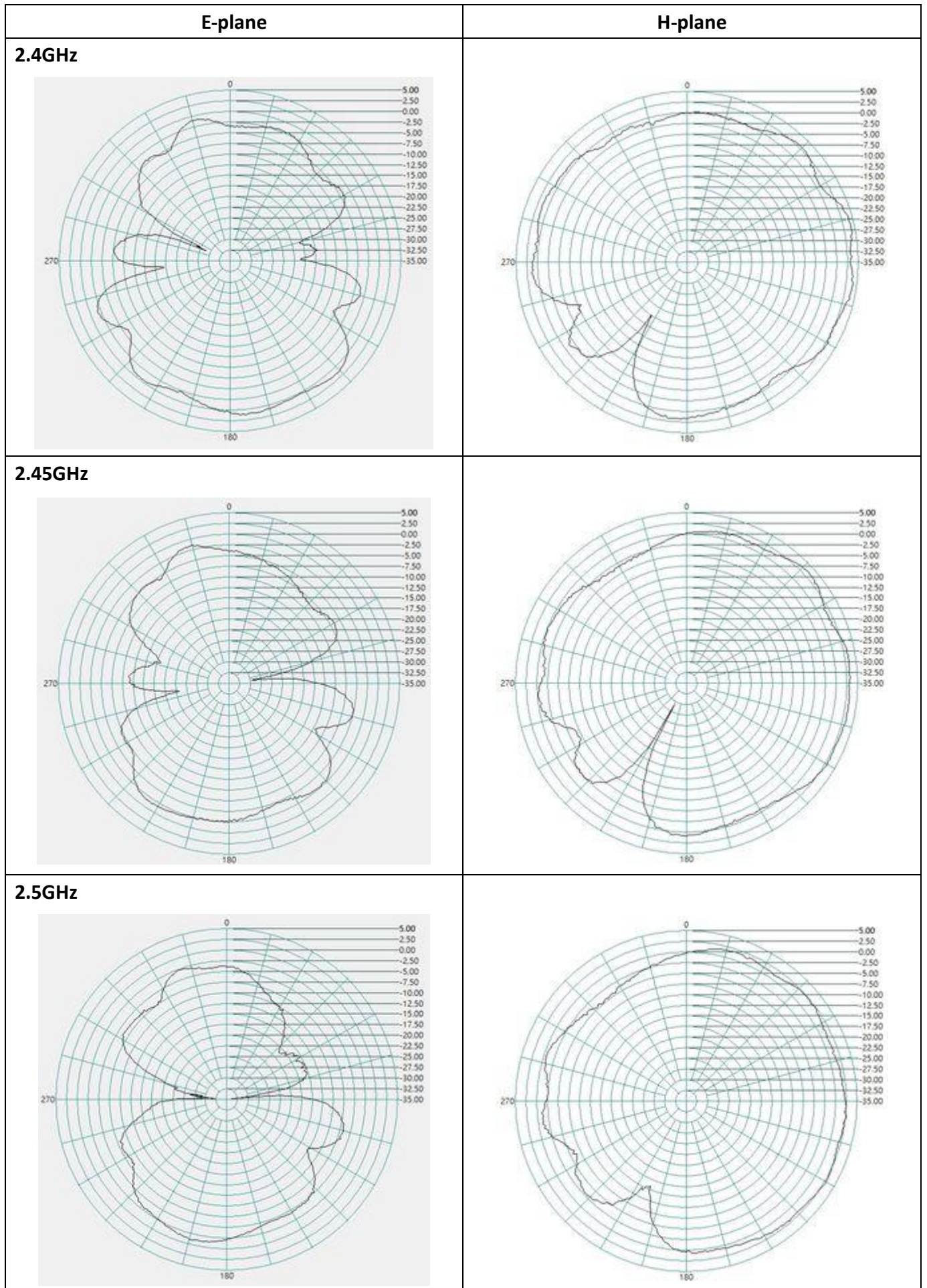
2.7GHz



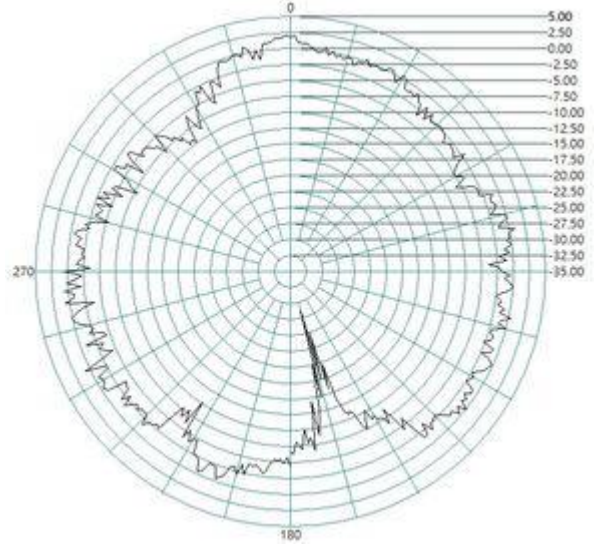
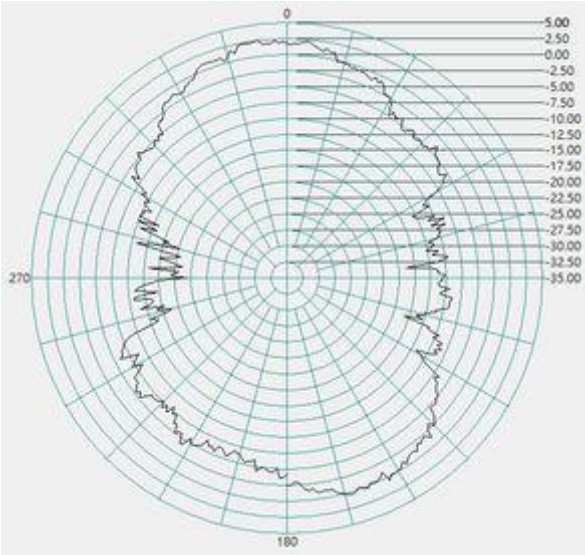
WiFi 2.4/5G Port 1



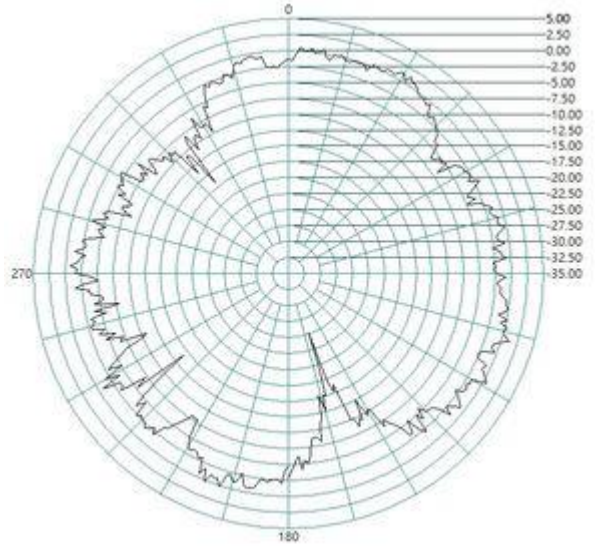
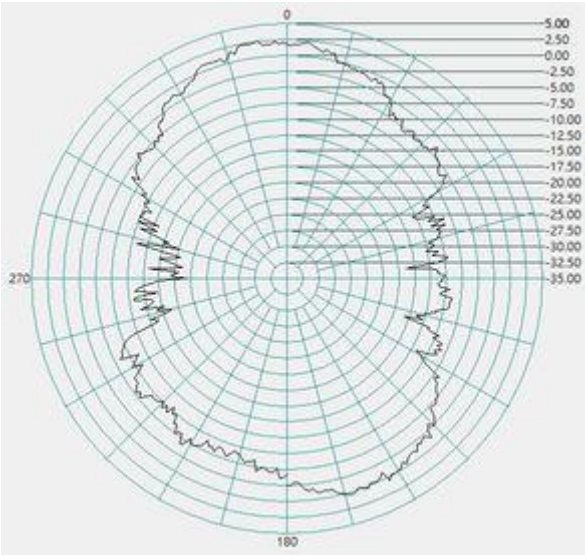
WiFi 2.4/5G Port 1 Radiation pattern



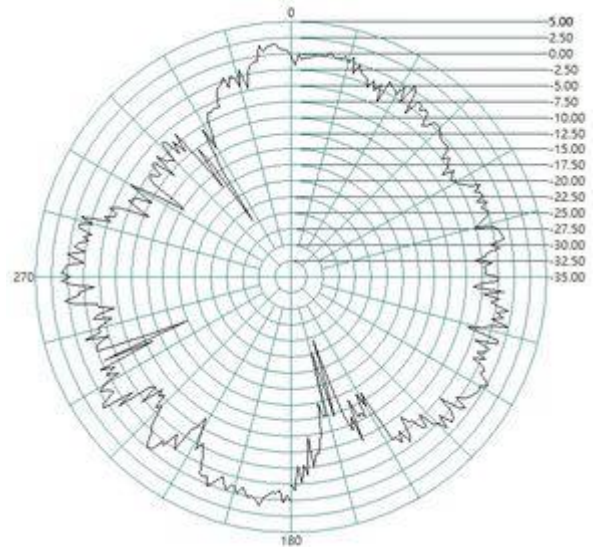
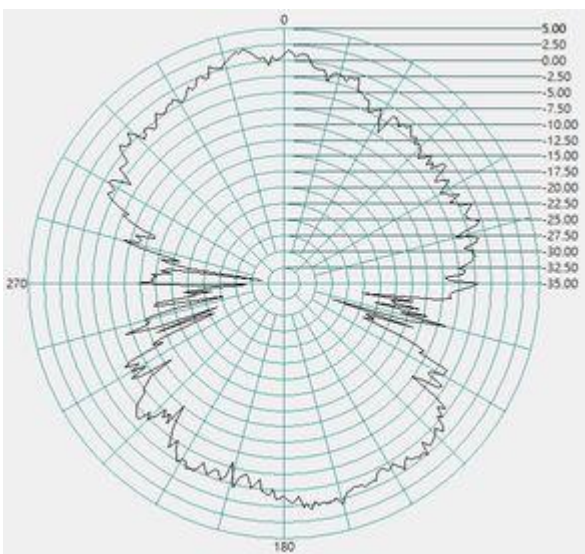
5.1GHz



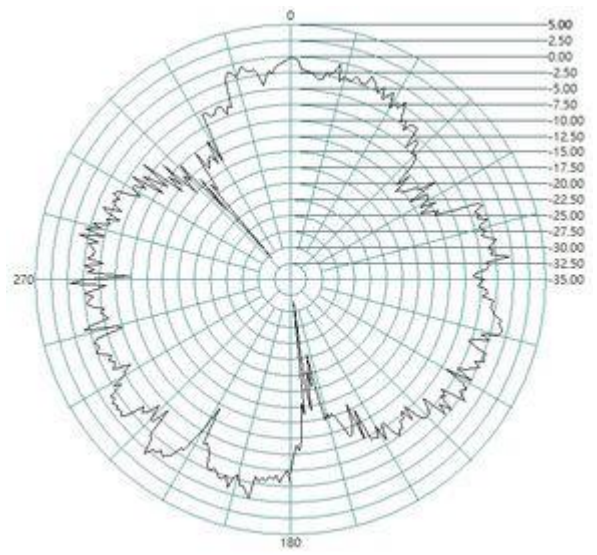
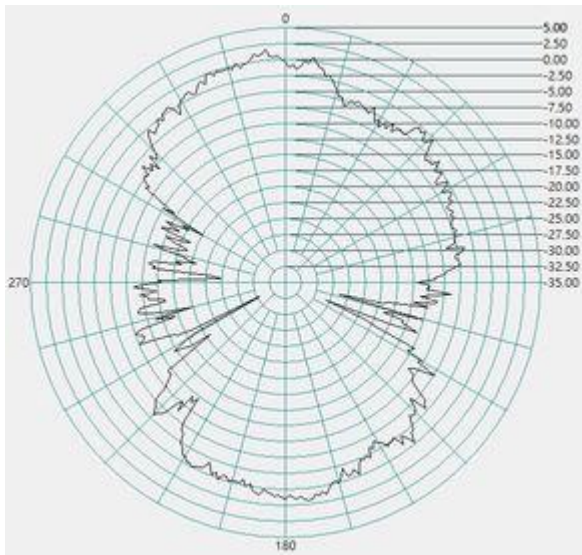
5.3GHz



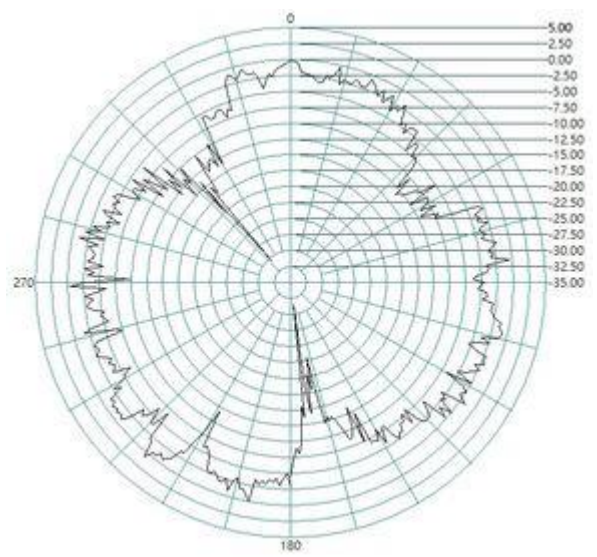
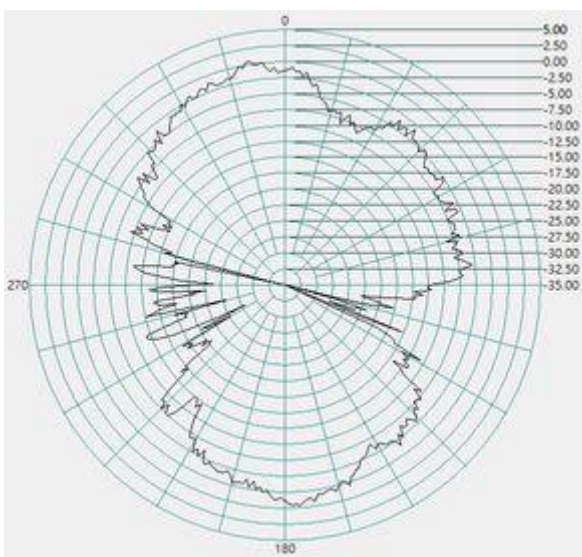
5.5GHz



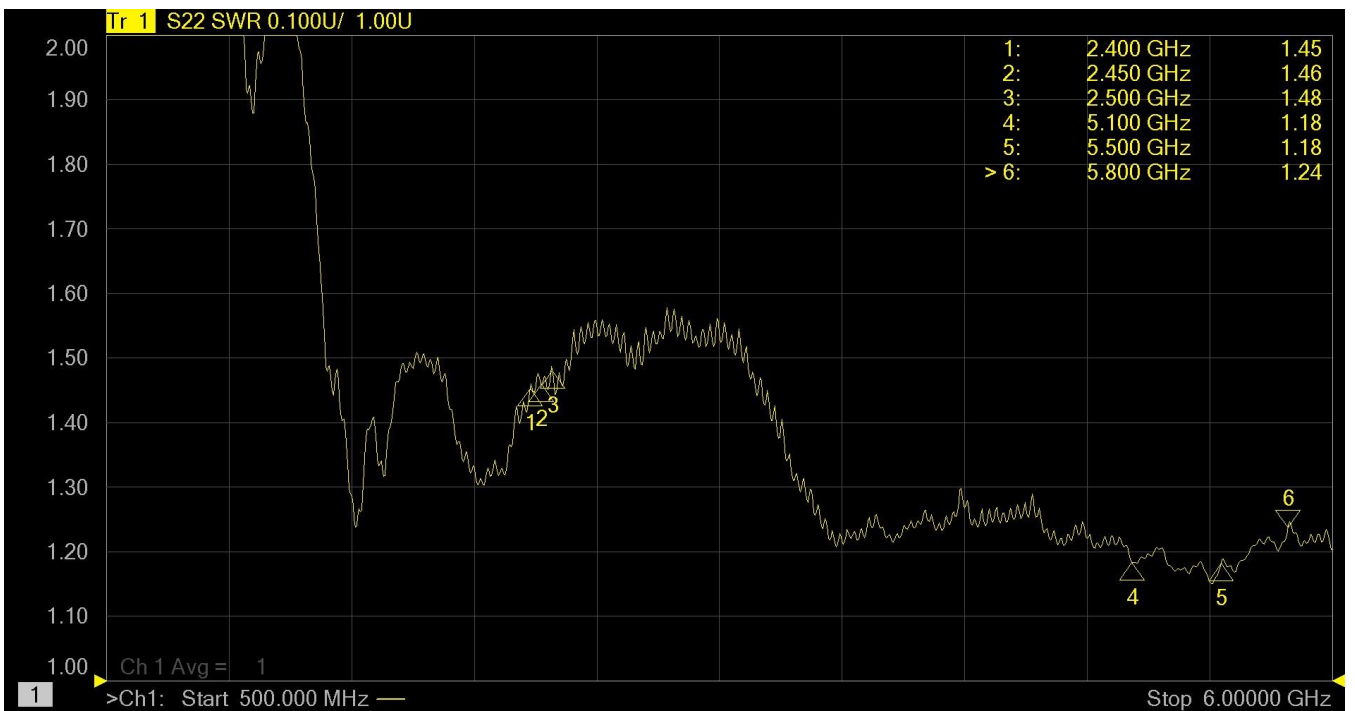
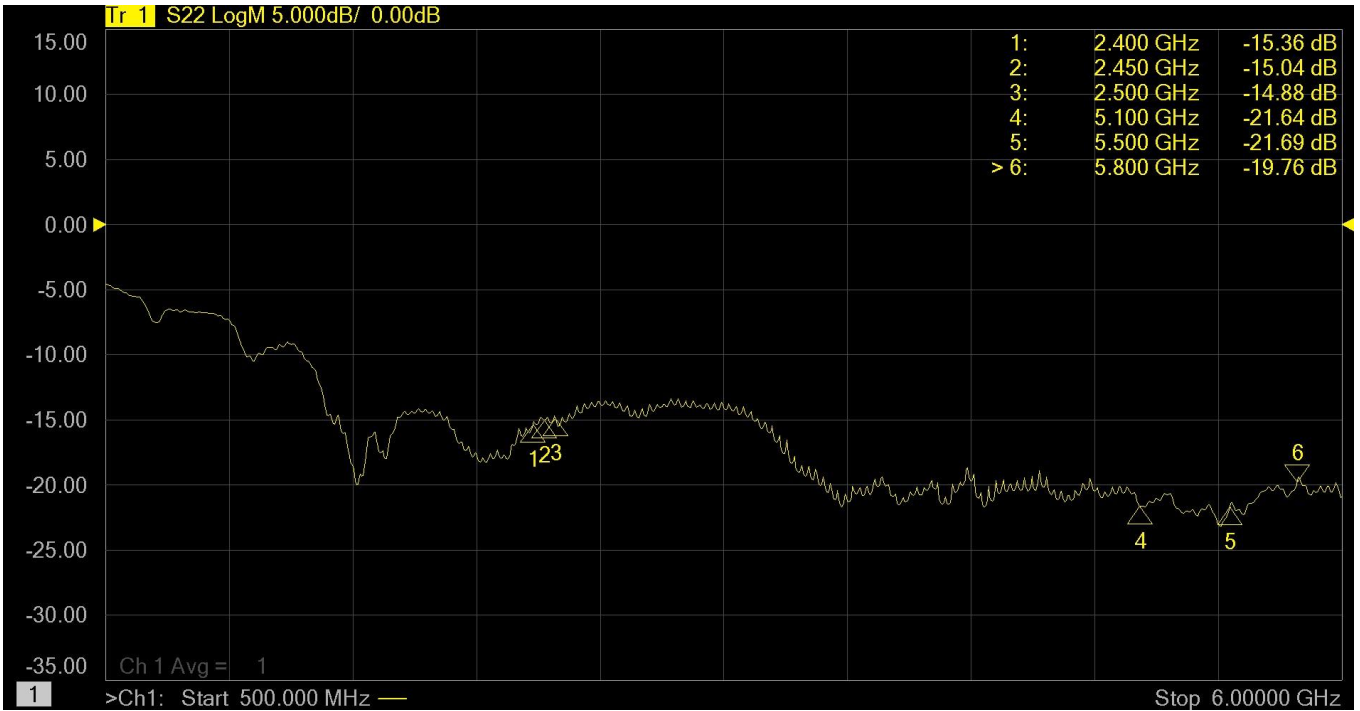
5.7GHz



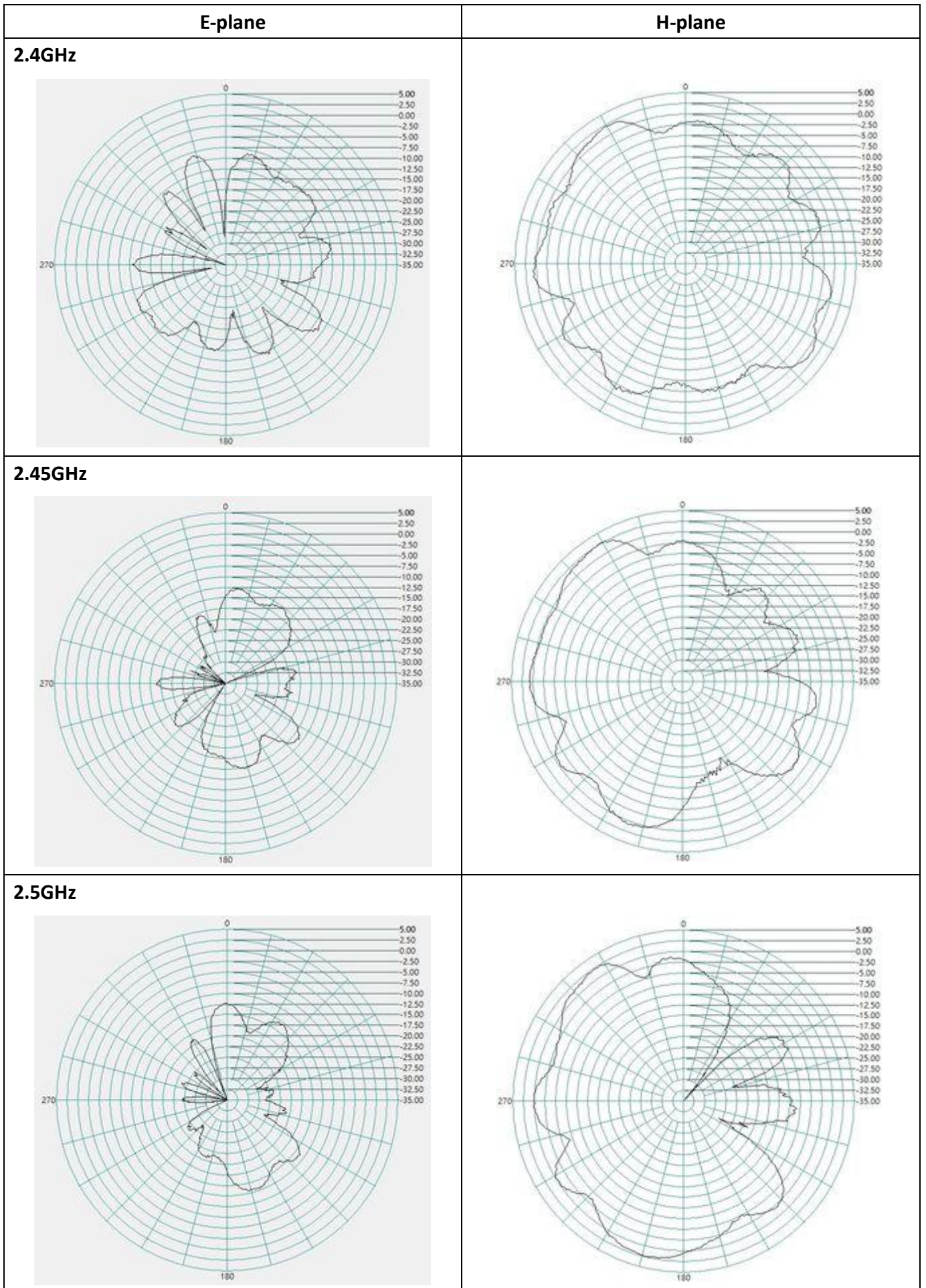
5.8GHz



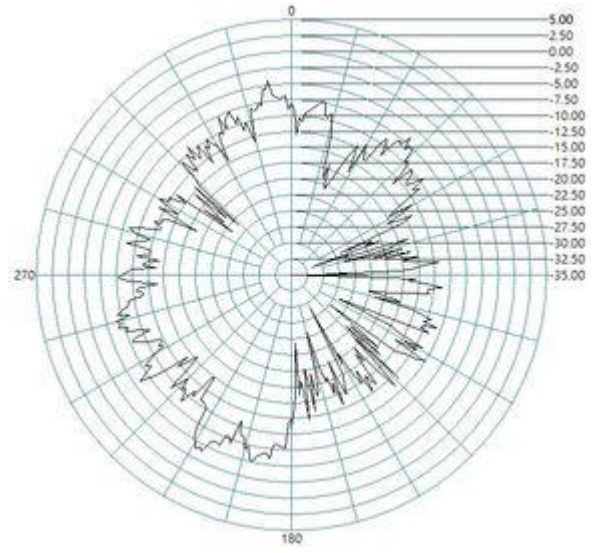
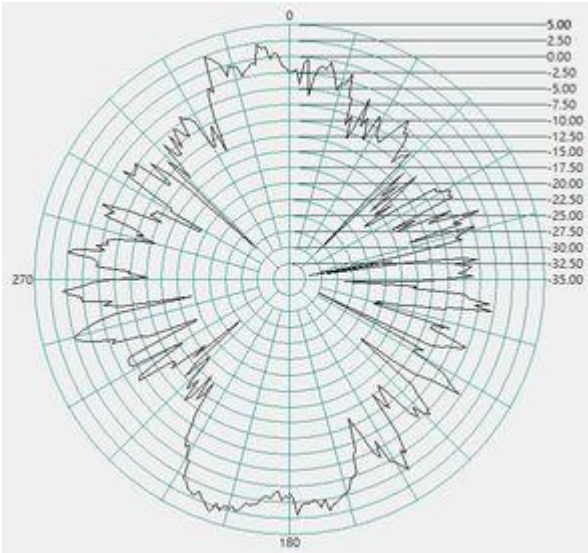
WiFi 2.4/5G Port 2



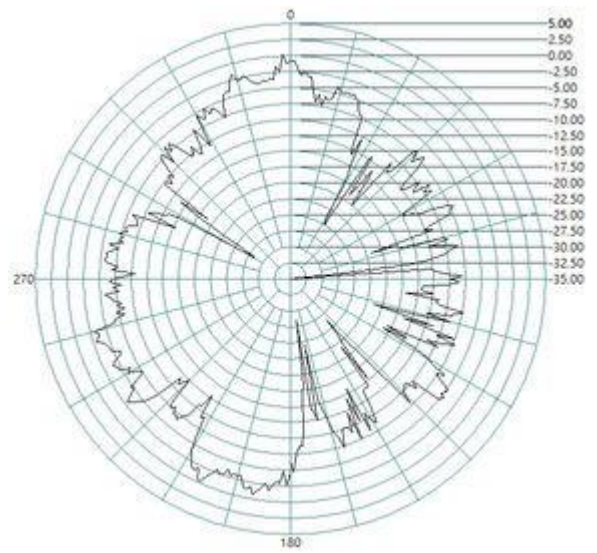
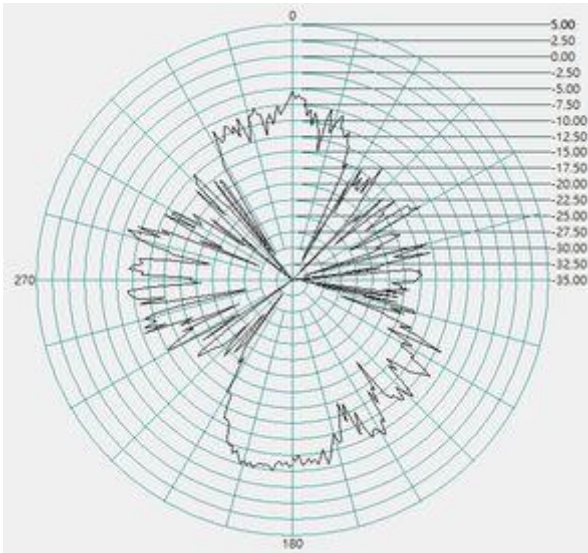
WiFi 2.4/5G Port 2 Radiation pattern



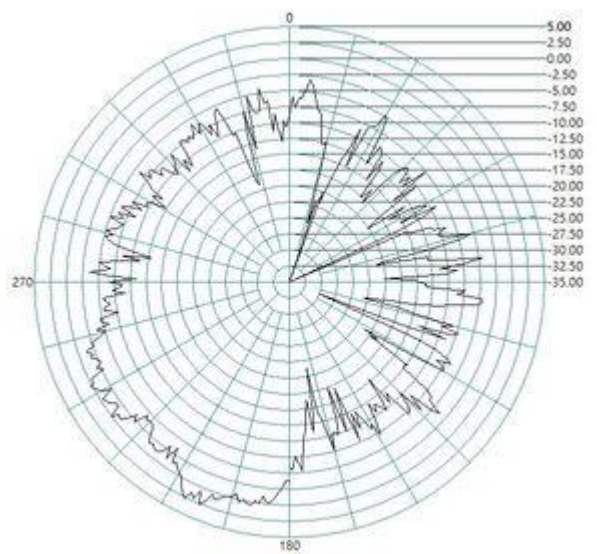
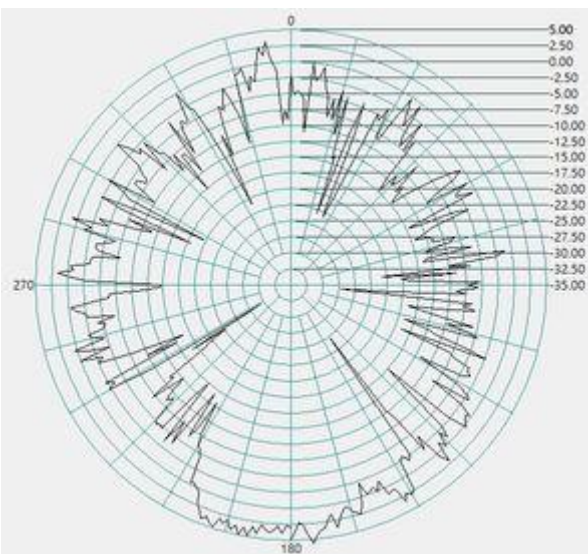
5.1GHz



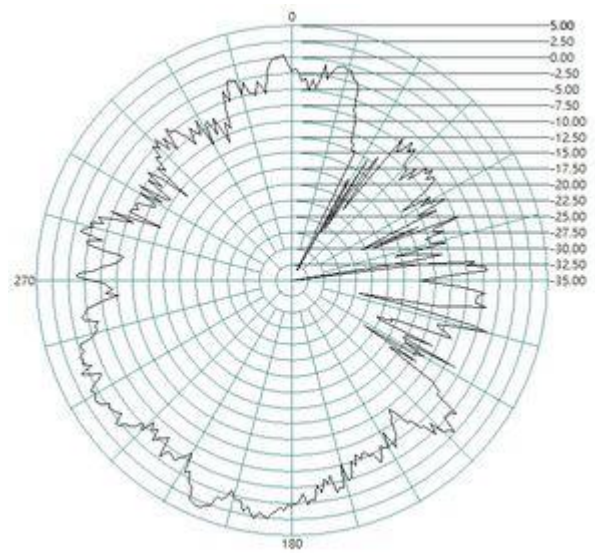
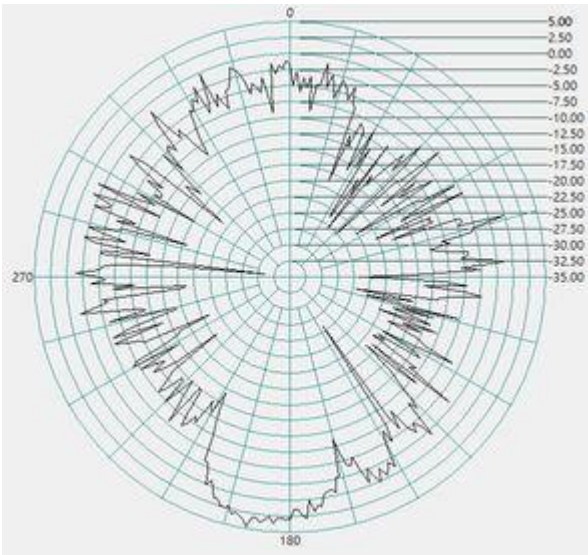
5.3GHz



5.5GHz



5.7GHz



5.8GHz

