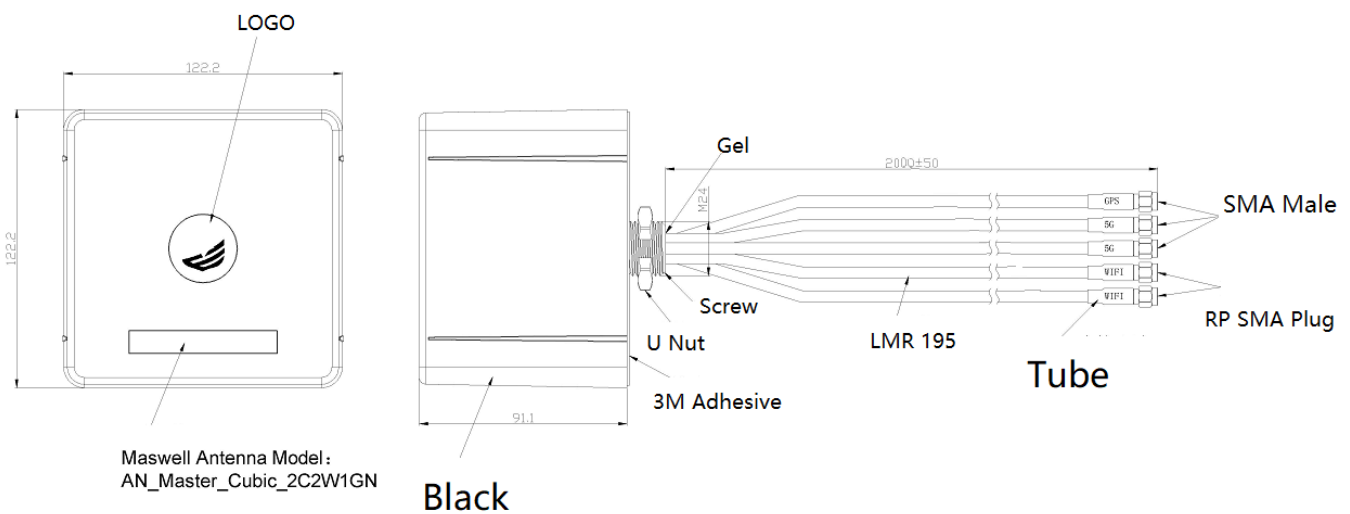


# Maswell 5G Combination Antenna 2X2 MIMO 5G , 2X2 MIMO WiFi 7 and GNSS

AN\_Master\_Cubic\_2C2W1GN



## Schematic Picture



# Maswell 5G Combination Antenna 2X2 MIMO 5G , 2X2 MIMO WiFi 7 and GNSS

AN\_Master\_Cubic\_2C2W1GN

## Specifications

Item		Specifications	
GNSS Antenna (GPS/GLONASS/ Beidou/Gaileo)	Dielectric Antenna	Center Frequency	1561.098~1602MHz
		Polarization	RHCP
		Gain	5dBic@PCB (Zenith)
		V.S.W.R	< 1.5
		Impedance	50Ω
		Axial Ratio	3dB(max)
	LNA	Gain	28±2dB
		Noise Figure	≤1.5dB
		Filter Insertion Loss	< 3dB
		Supply Voltage	3~5V DC
		Current Consumption	< 20mA
Antenna 1: 5G/4G LTE/WiFi6E/UWB	V.S.W.R	< 2.0	
	Frequency Range	600MHz~8.0GHz	
	Polarization	Linear	
	Gain	Up to 6dBi (20cm Cable Length)	
	V.S.W.R	average 3.0	
Antenna 2: 5G/4G LTE/WiFi6E/UWB	Efficiency	>50%	
	Frequency Range	600MHz~8.0GHz	
	Polarization	Linear	
	Gain	Up to 6dBi (20cm Cable Length)	
	V.S.W.R	average 3.0	
	Efficiency	>50%	

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AN\_Master\_Cubic\_2C2W1GN

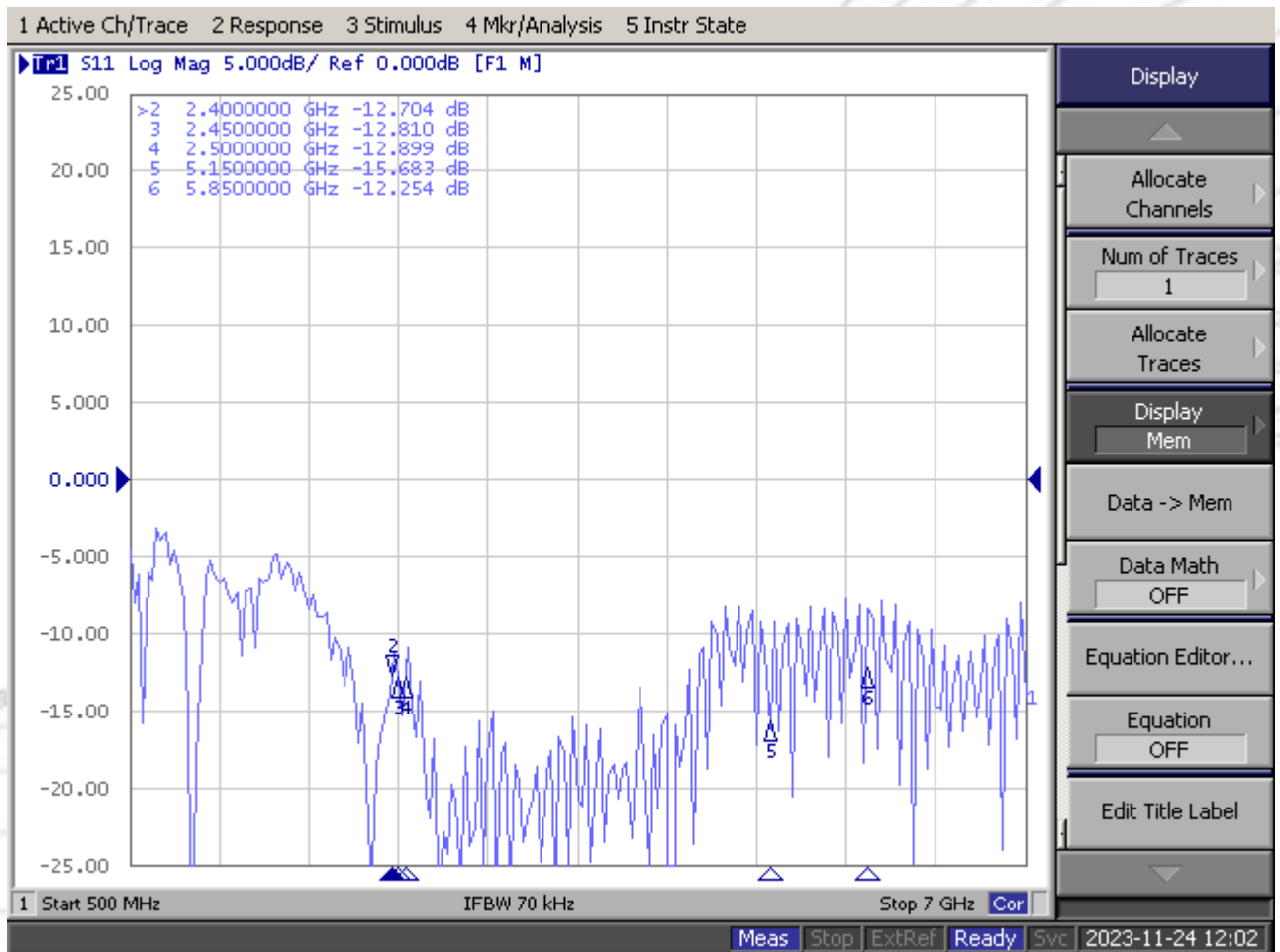
## Specifications

Item	Specifications	
Antenna 3: WiFi	Frequency Range	2100MHz-7200MHz
	Polarization	Linear
	Gain	4dBi
	V.S.W.R	< 1.5
	Impedance	50Ω
Antenna 4: WiFi	Frequency Range	2100MHz-7200MHz
	Polarization	Linear
	Gain	4dBi
	V.S.W.R	< 1.5
	Impedance	50Ω
Mechanical	Dimension	122mm *122mm*91mm
	Connector	SMA Male for 5G MIMO SMA male for GNSS RP SMA Plug for WIFI MIMO
Environmental	Operating Temperature	-40°C~+85°C
	Relative Humidity	Up to 95%
	Waterproof Grade	IP 67
	Vibration	10 to 55Hz with 1.5mm amplitude 2hours
	Environmentally Friendly	ROHS Compliant

# Maswell 5G Combination Antenna 2X2 MIMO 5G , 2X2 MIMO WiFi 7 and GNSS

AN\_Master\_Cubic\_2C2W1GN

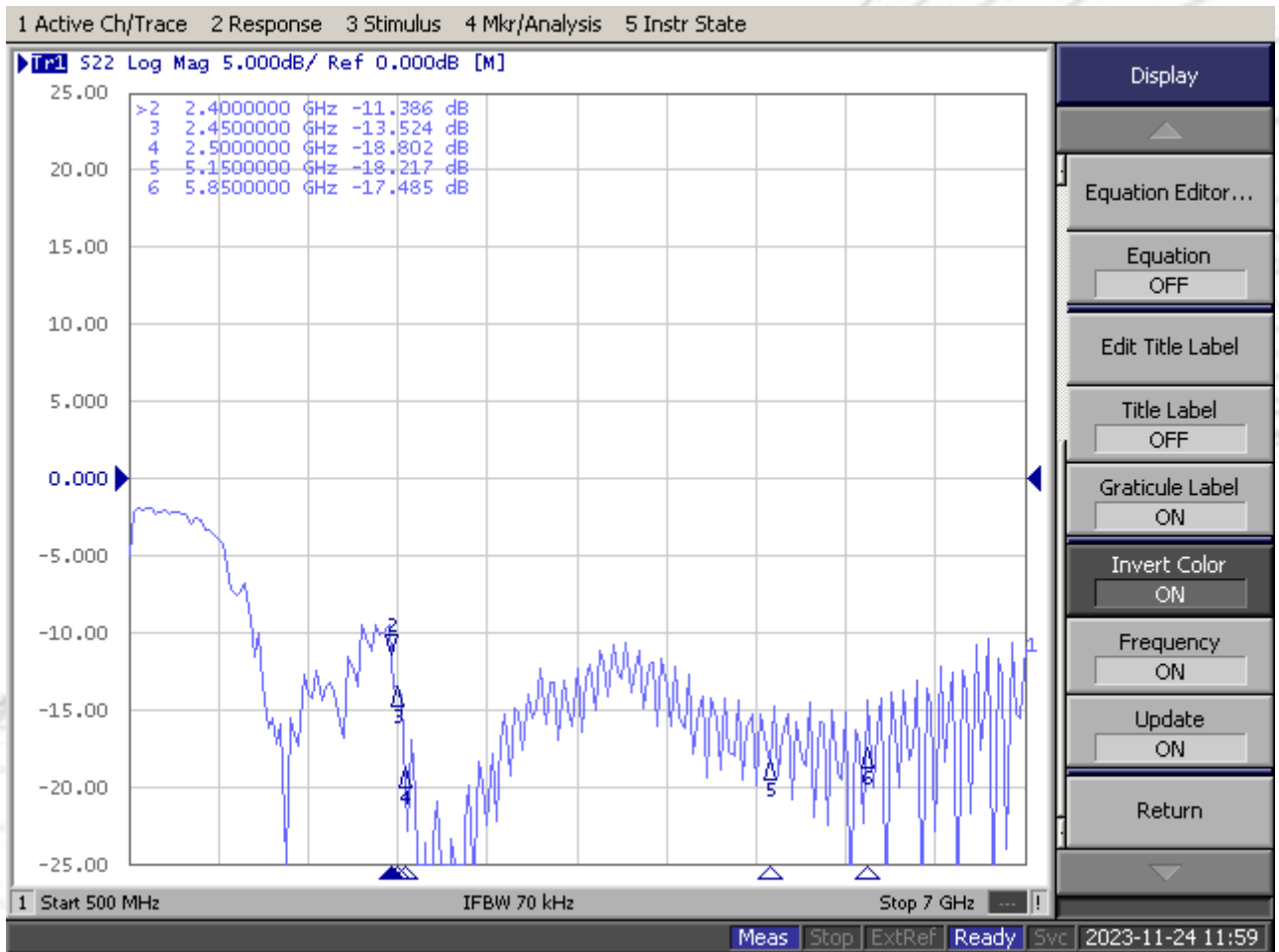
## 5G S11 Reflection Coefficient



# Maswell 5G Combination Antenna 2X2 MIMO 5G , 2X2 MIMO WiFi 7 and GNSS

AN\_Master\_Cubic\_2C2W1GN

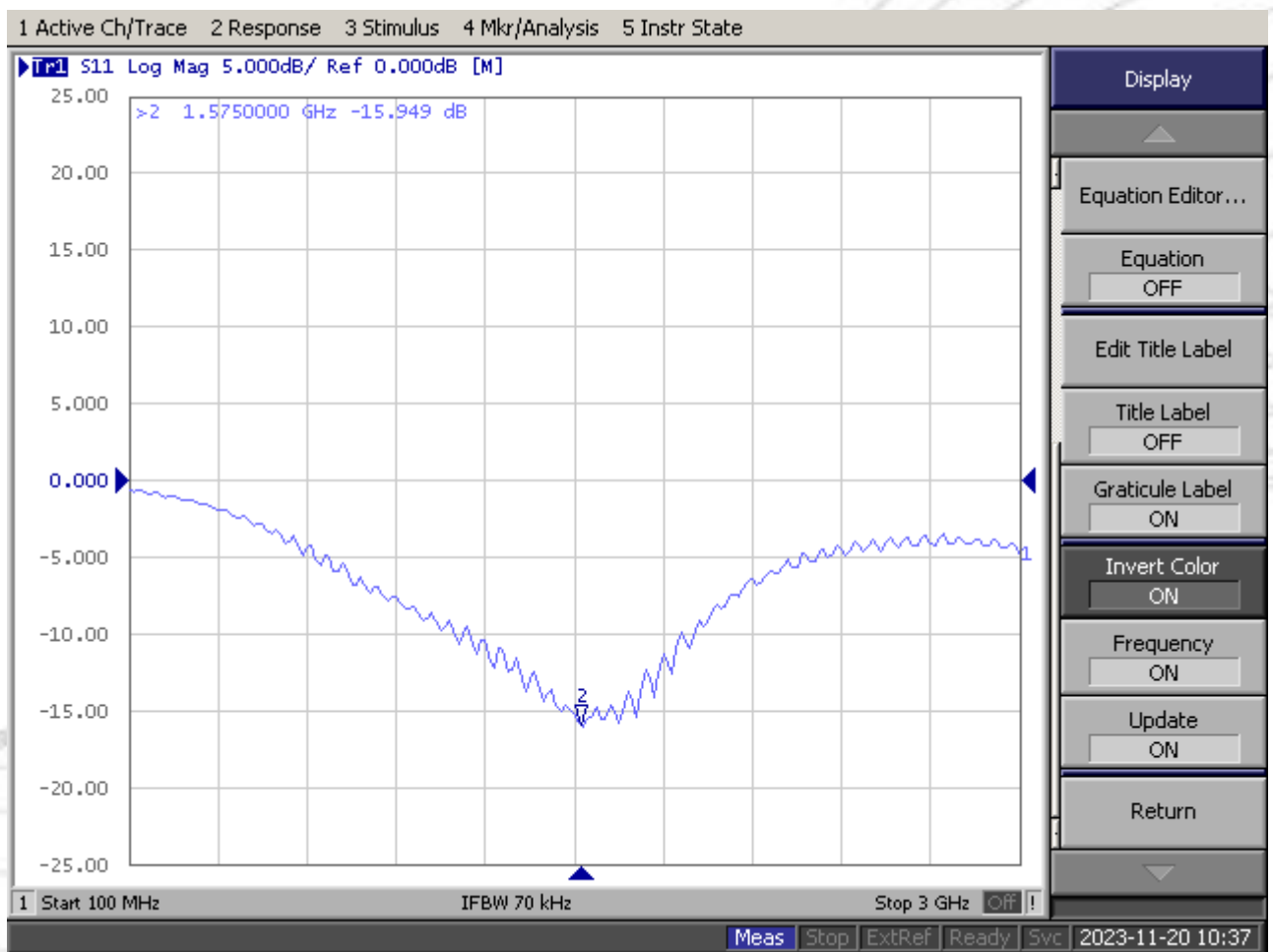
## WiFi 7 S11 Reflection Coefficient



# Maswell 5G Combination Antenna 2X2 MIMO 5G , 2X2 MIMO WiFi 7 and GNSS

AN\_Master\_Cubic\_2C2W1GN

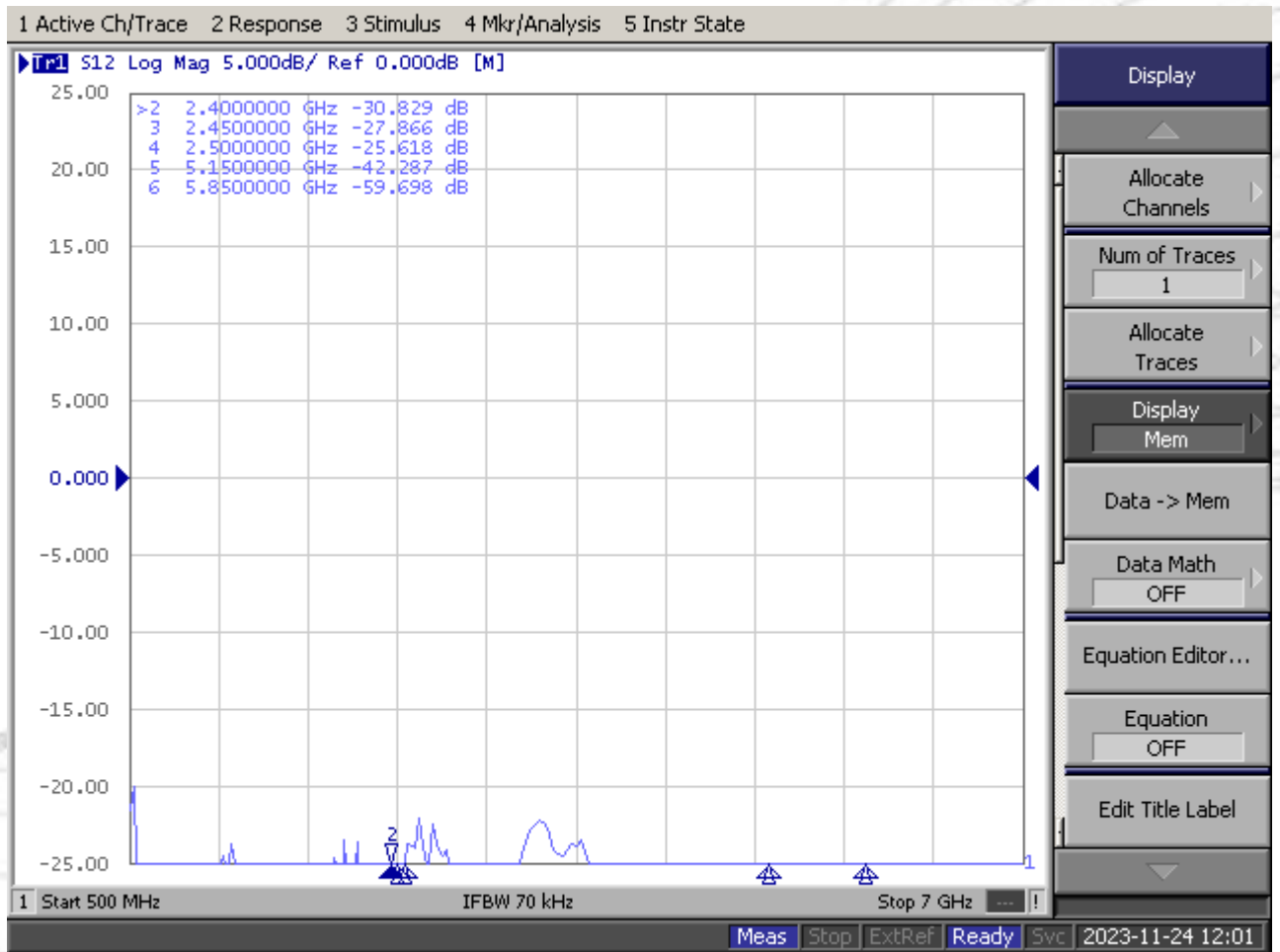
## GNSS S11 Reflection Coefficient



# Maswell 5G Combination Antenna 2X2 MIMO 5G , 2X2 MIMO WiFi 7 and GNSS

AN\_Master\_Cubic\_2C2W1GN

## Isolation

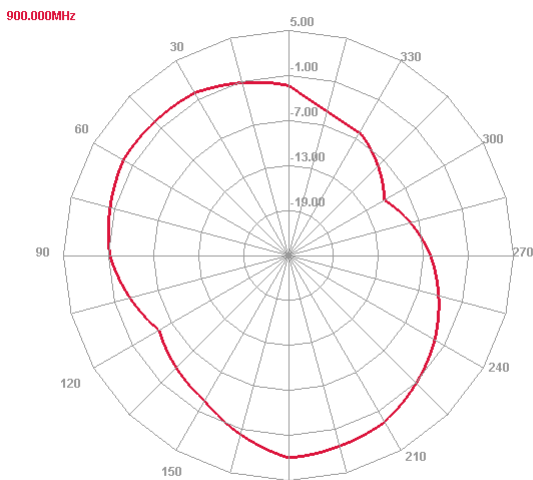


# Maswell 5G Combination Antenna 2X2 MIMO 5G , 2X2 MIMO WiFi 7 and GNSS

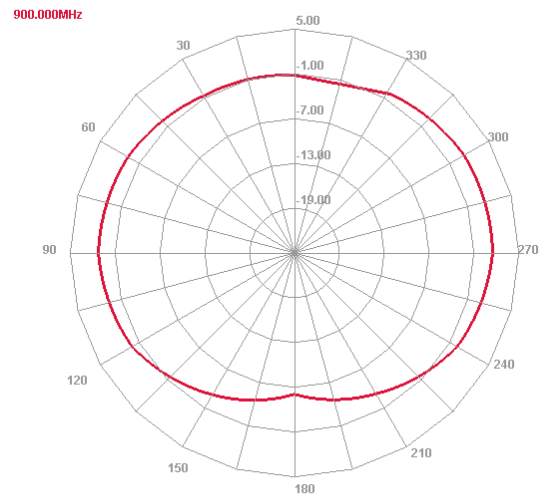
AN\_Master\_Cubic\_2C2W1GN

## Radiation Pattern

900HMz

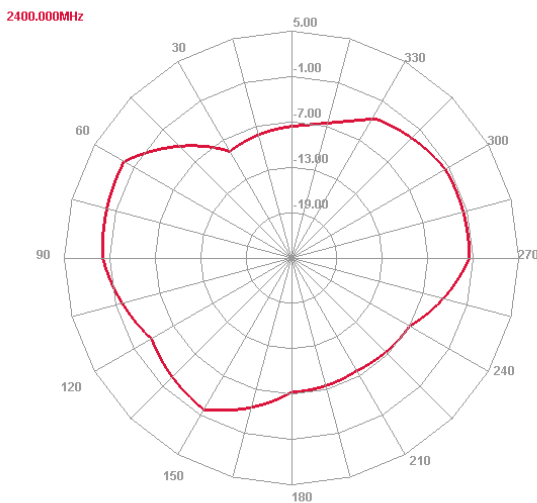


E plane

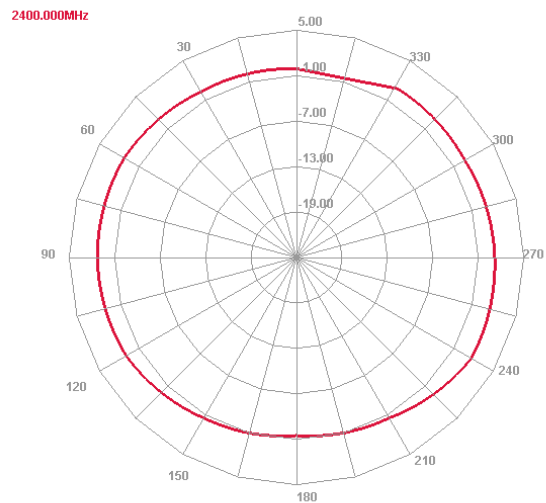


H plane

2400HMz



E plane



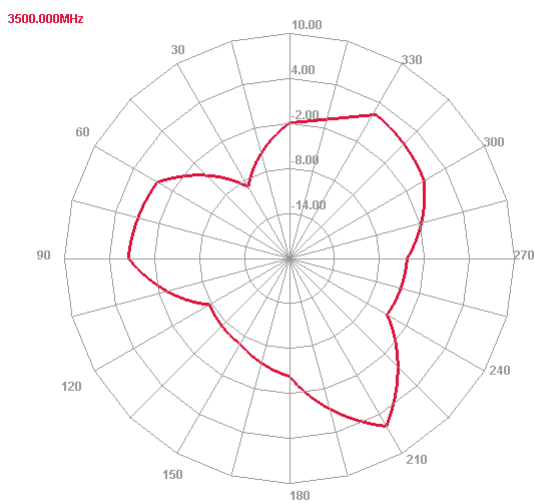
H plane



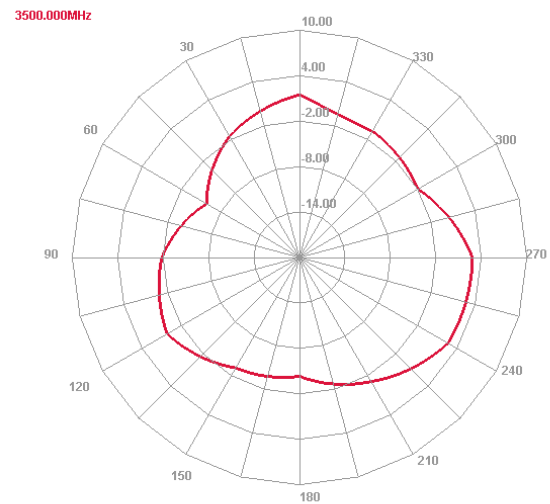
# Maswell 5G Combination Antenna 2X2 MIMO 5G , 2X2 MIMO WiFi 7 and GNSS

AN\_Master\_Cubic\_2C2W1GN

## Radiation Pattern 3500MHz

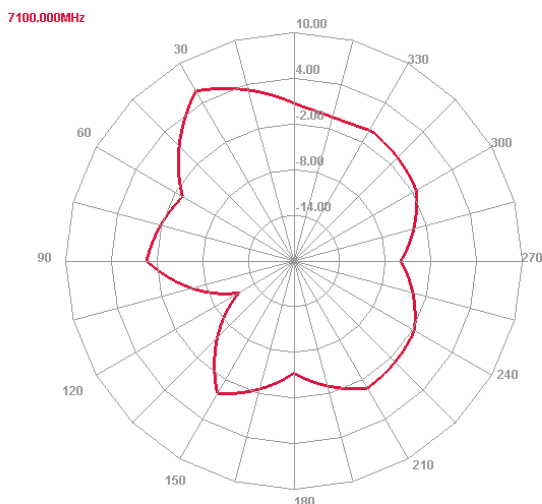


E plane

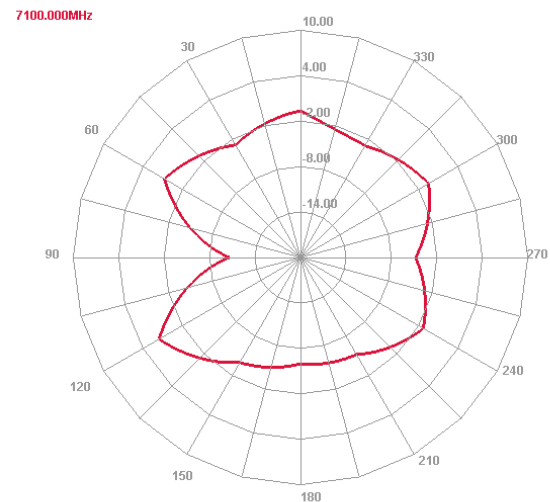


H plane

## 7100MHz



E plane



H plane