

CW-WZ-0075

433MHZ External Antenna

Key Features

Frequency: 433MHz

SMA Male Connector

External Rubber

Dimensions 108*8 mm

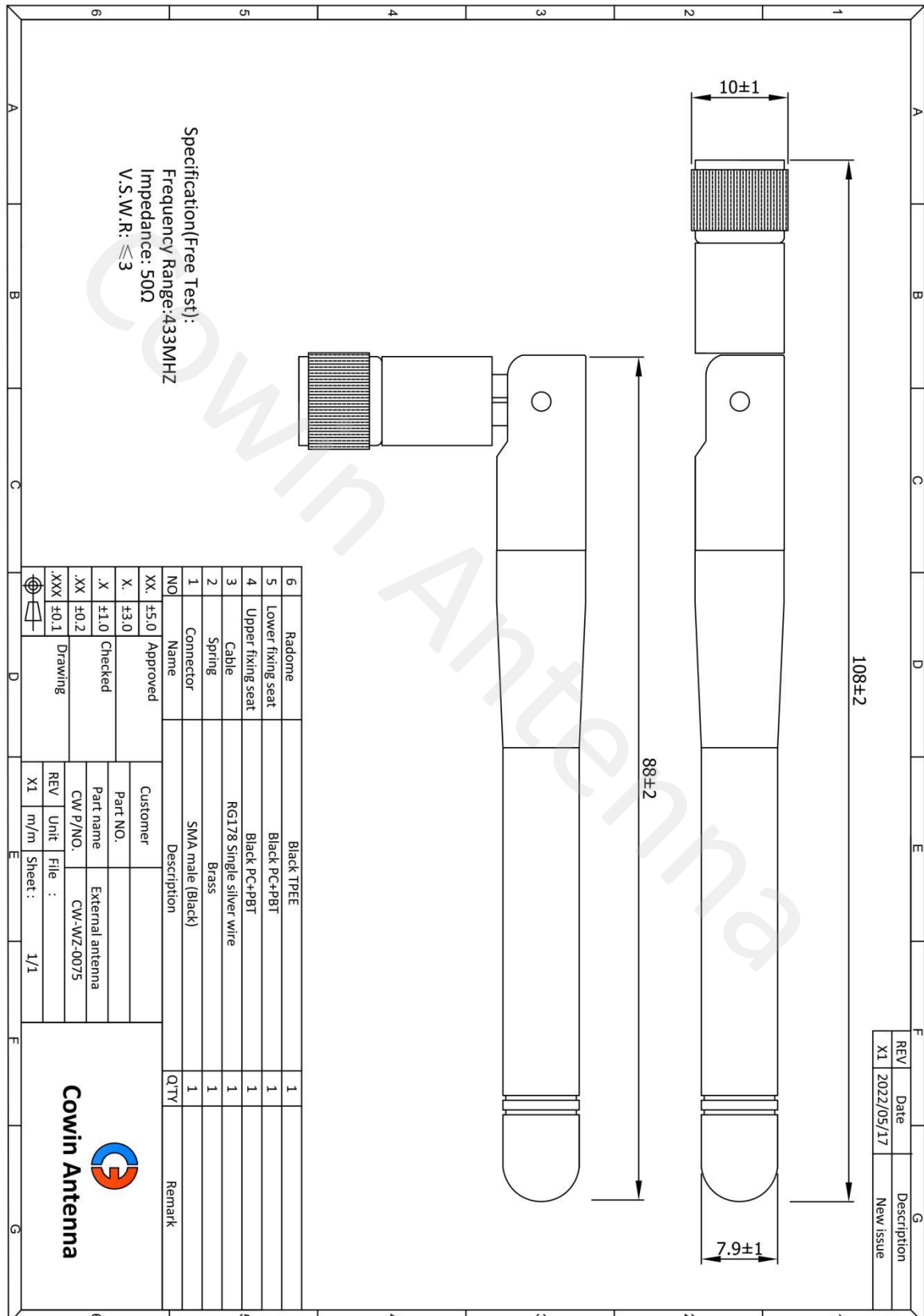


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	433MHz
VSWR	3:1
Efficiency (%)	26.43%
Peak Gain (dBi)	-1.84
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	SMA Male

2. Material and environmental characteristics

Inner structure	Spring
Material of Plastic	PC+PBT/TPEE
Cable Type	N/A
Connector Type	SMA Male
Dimensions (mm)	108*8MM
Antenna color	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS



4. Antenna test parameters

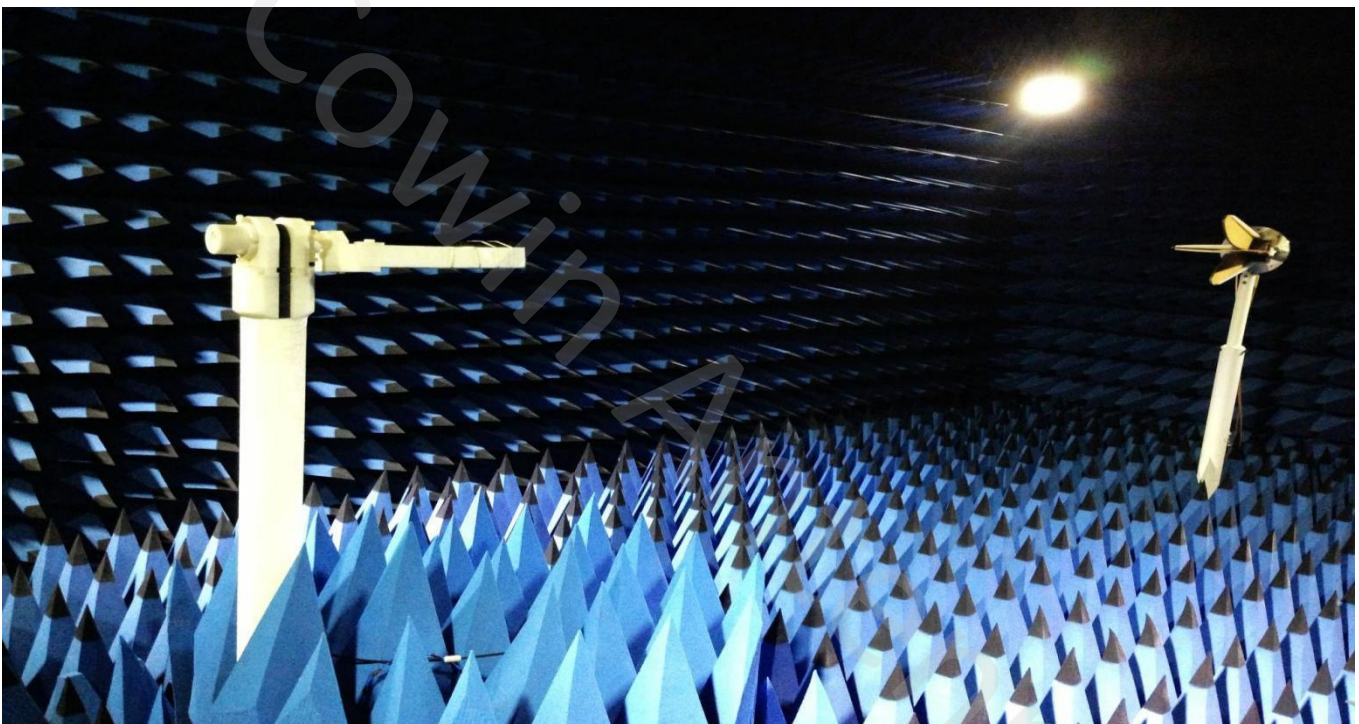
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

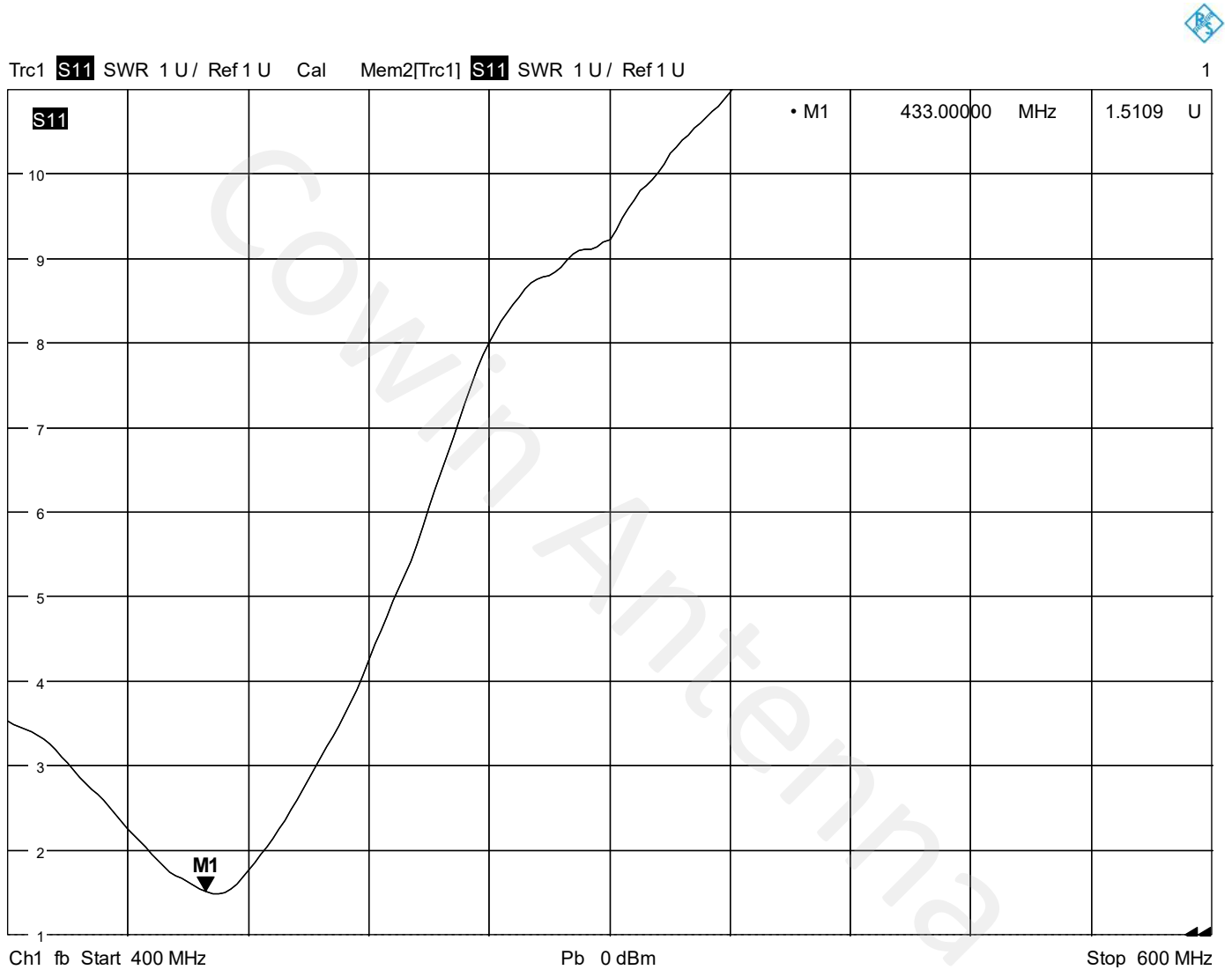
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

The comprehensive tester is Agilent cmv500

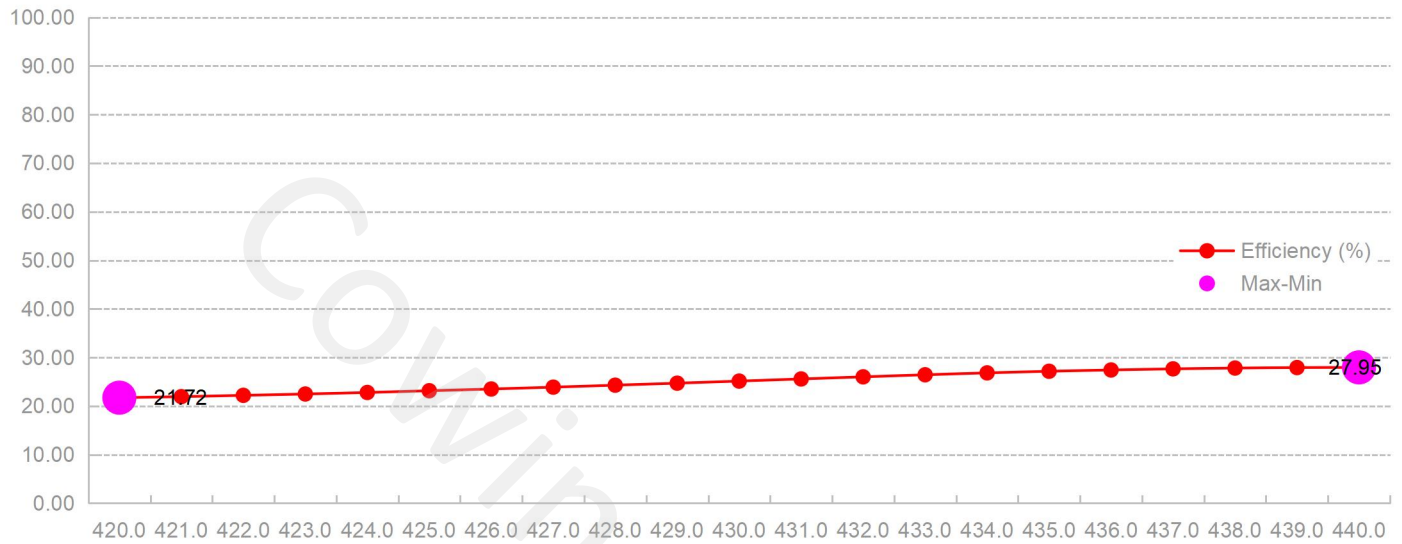


4.1 VSWR

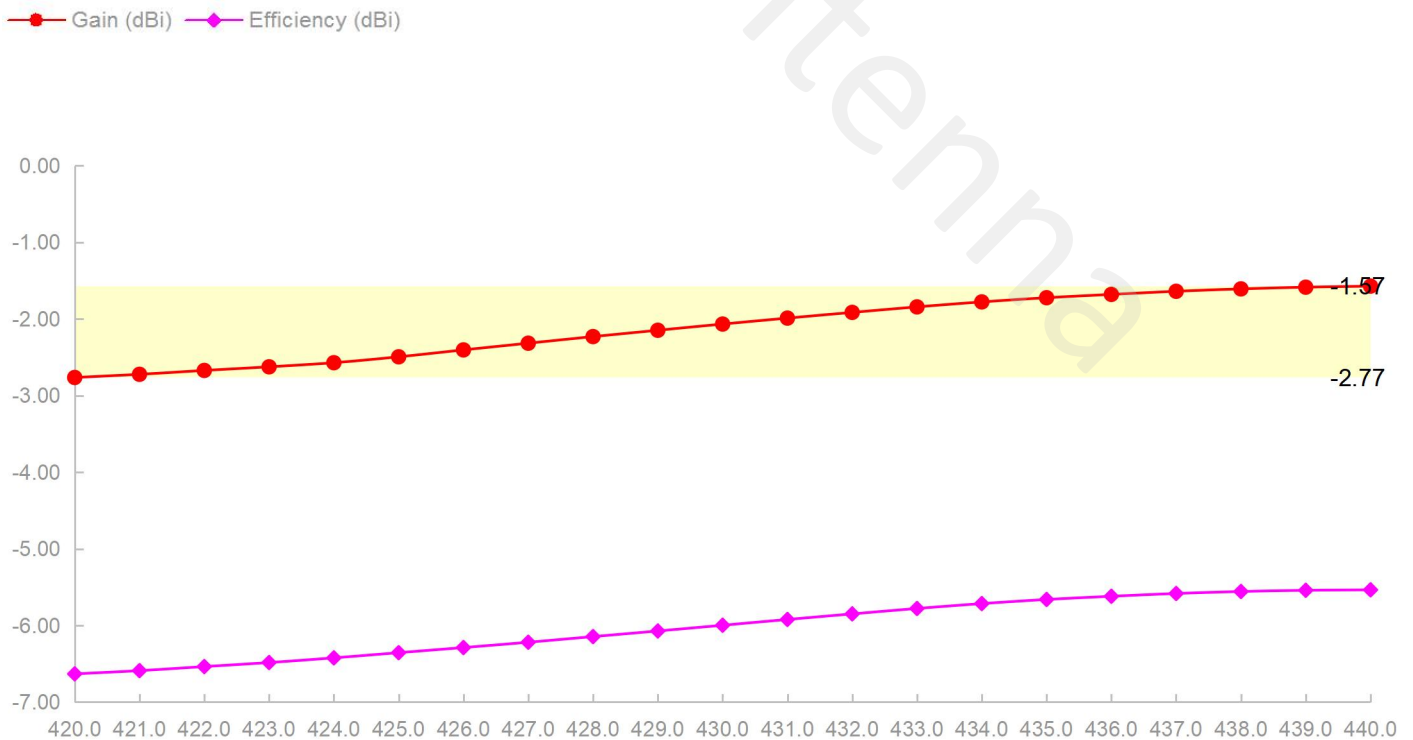


5/17/2022, 3:42 AM

4.2 Efficiency

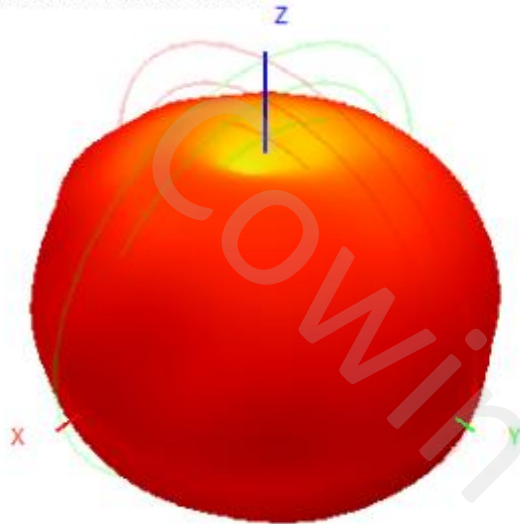


4.3 Peak gain

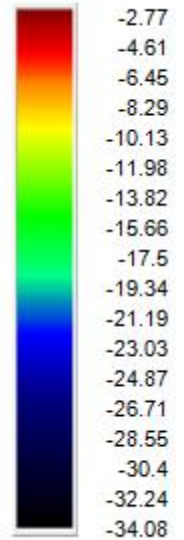
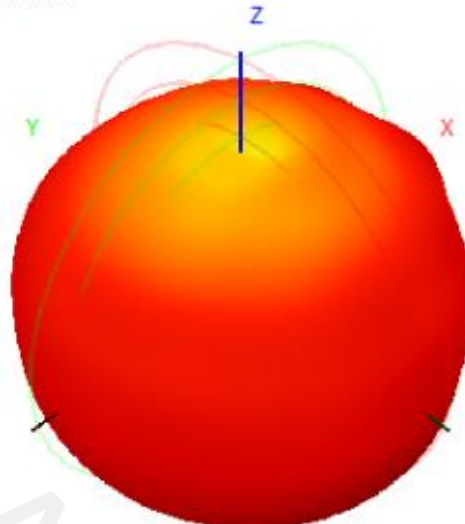


4.4 3D&2D Radiation Patterns

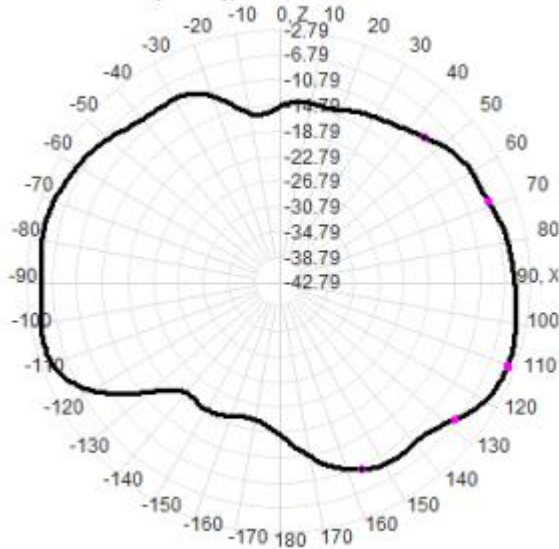
420.0MHz H+V, Eff: 21.7%



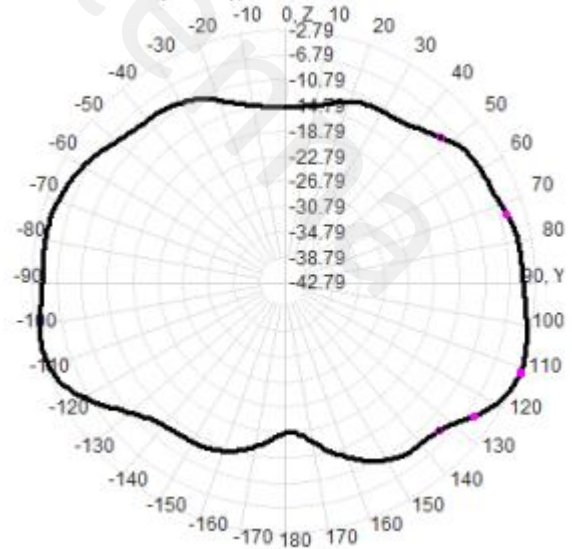
Back View



420.0MHz Total(E1-XZ), Max= -4.22dBi

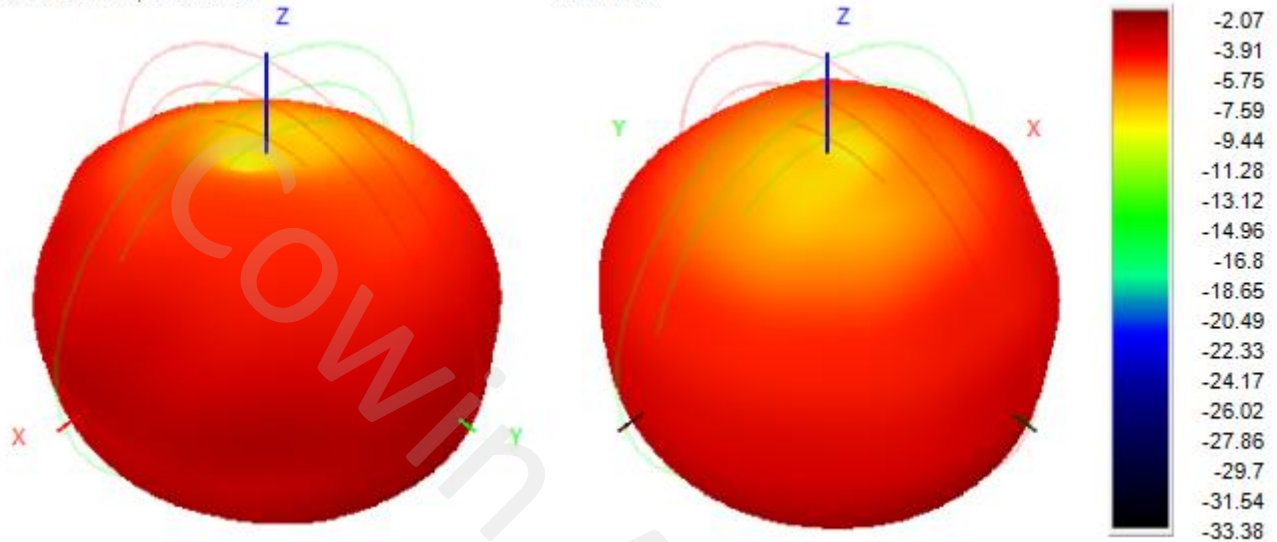


420.0MHz Total(E2-YZ), Max= -2.79dBi



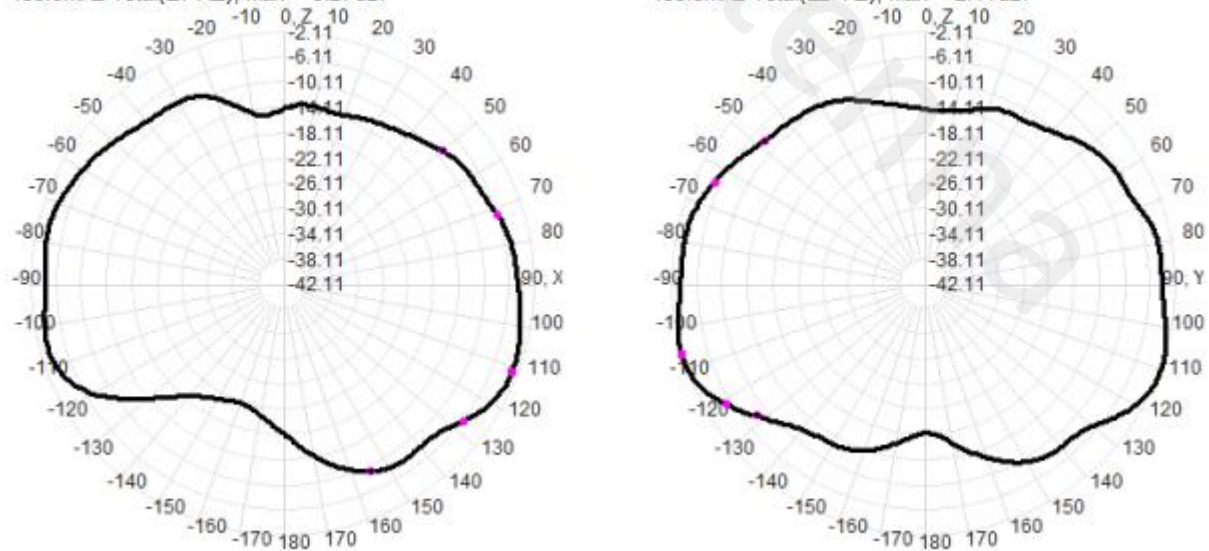
430.0MHz H+V, Eff: 25.1%

Back View



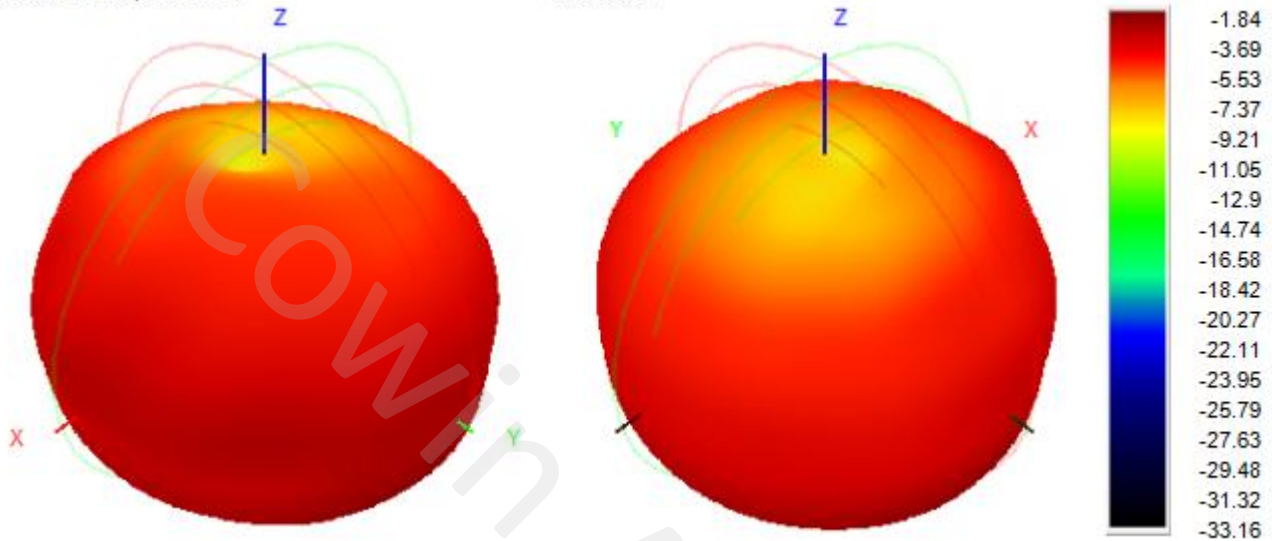
430.0MHz Total(E1-XZ), Max= -3.27dBi

430.0MHz Total(E2-YZ), Max= -2.11dBi



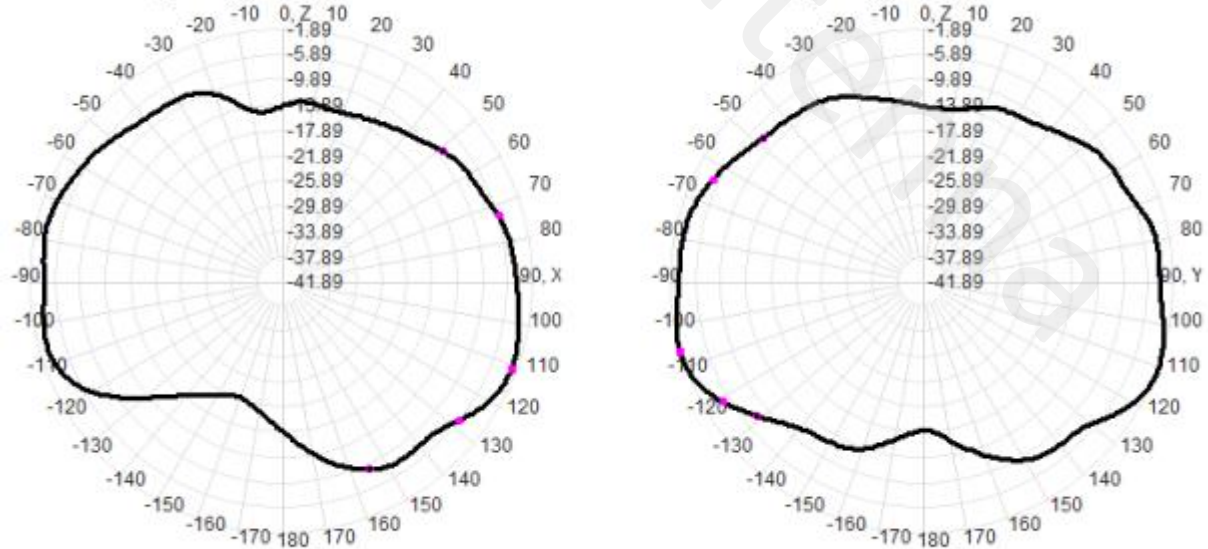
433.0MHz H+V, Eff: 26.4%

Back View

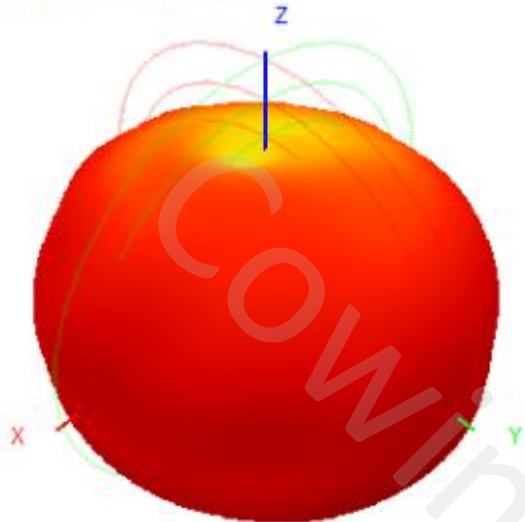


433.0MHz Total(E1-XZ), Max= -3.02dBi

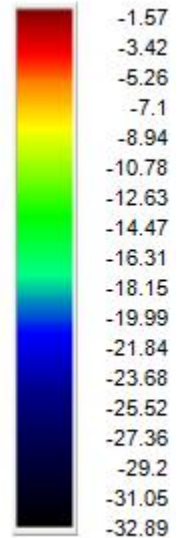
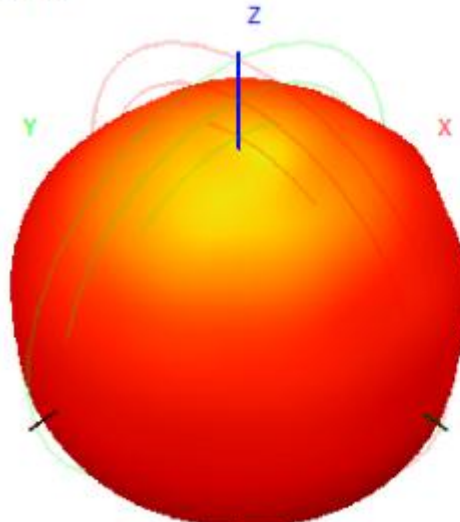
433.0MHz Total(E2-YZ), Max= -1.89dBi



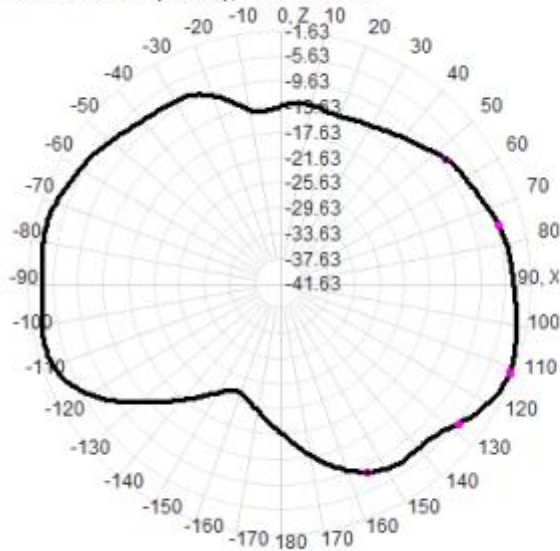
440.0MHz H+V, Eff: 28.0%



Back View



440.0MHz Total(E1-XZ), Max=-2.69dBi



440.0MHz Total(E2-YZ), Max=-1.63dBi

