

CW-NZ-0210

900-930MHz Internal Antenna

Key Features

Frequency: 900-930MHz

SMA Male Connector

Dimensions: 152*50*1mm

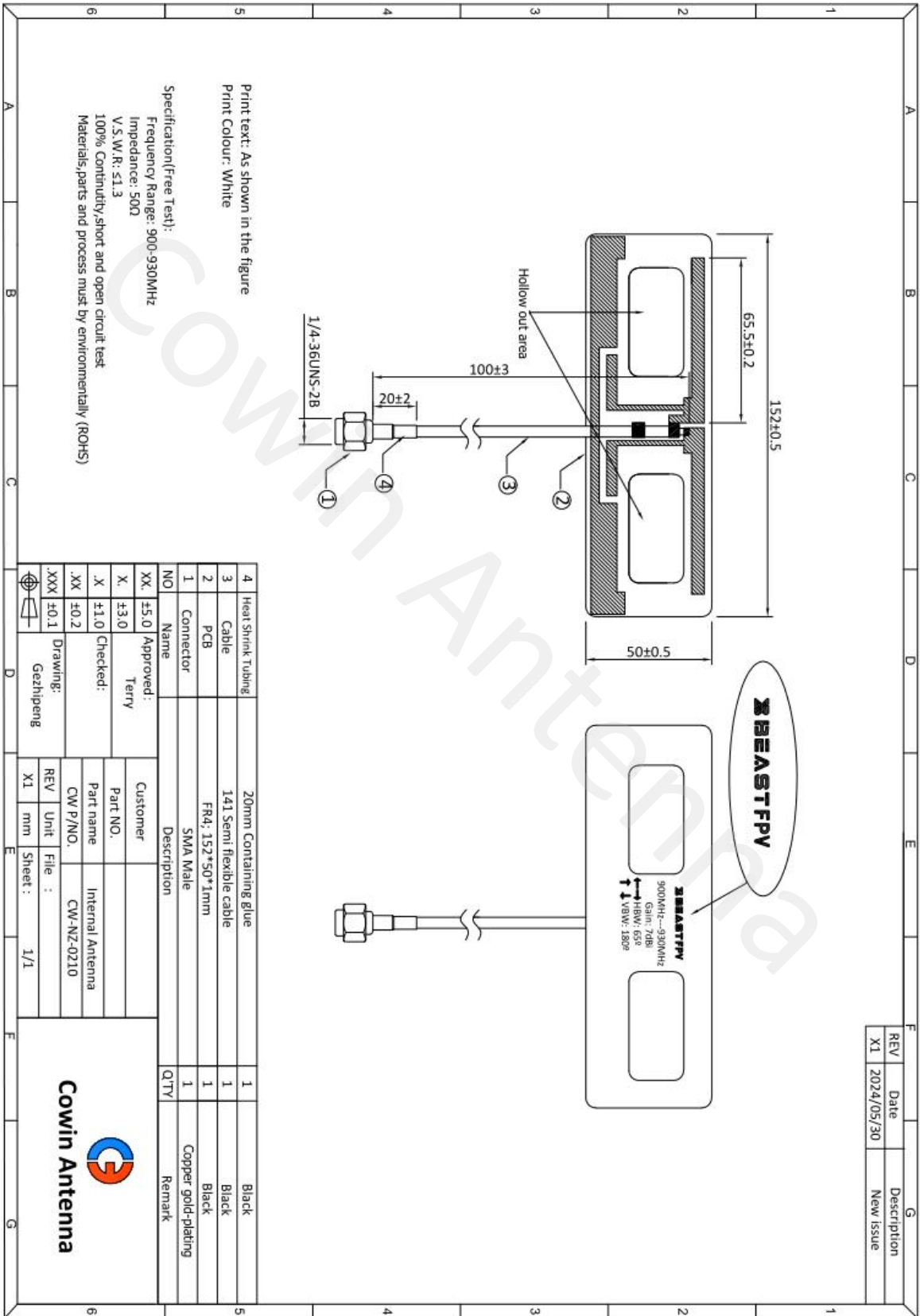


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	900-930
VSWR	≤1.3
Efficiency (%)	92.32
Peak Gain (dBi)	4.42
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	SMA Male

2. Material and environmental characteristics

External Structure	N/A
Inner Structure	PCB
Cable Type	141 Semi flexible cable
Connector Type	SMA Male
Dimensions (mm)	152*50*1
Antenna Colour	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS



4. Antenna test parameters

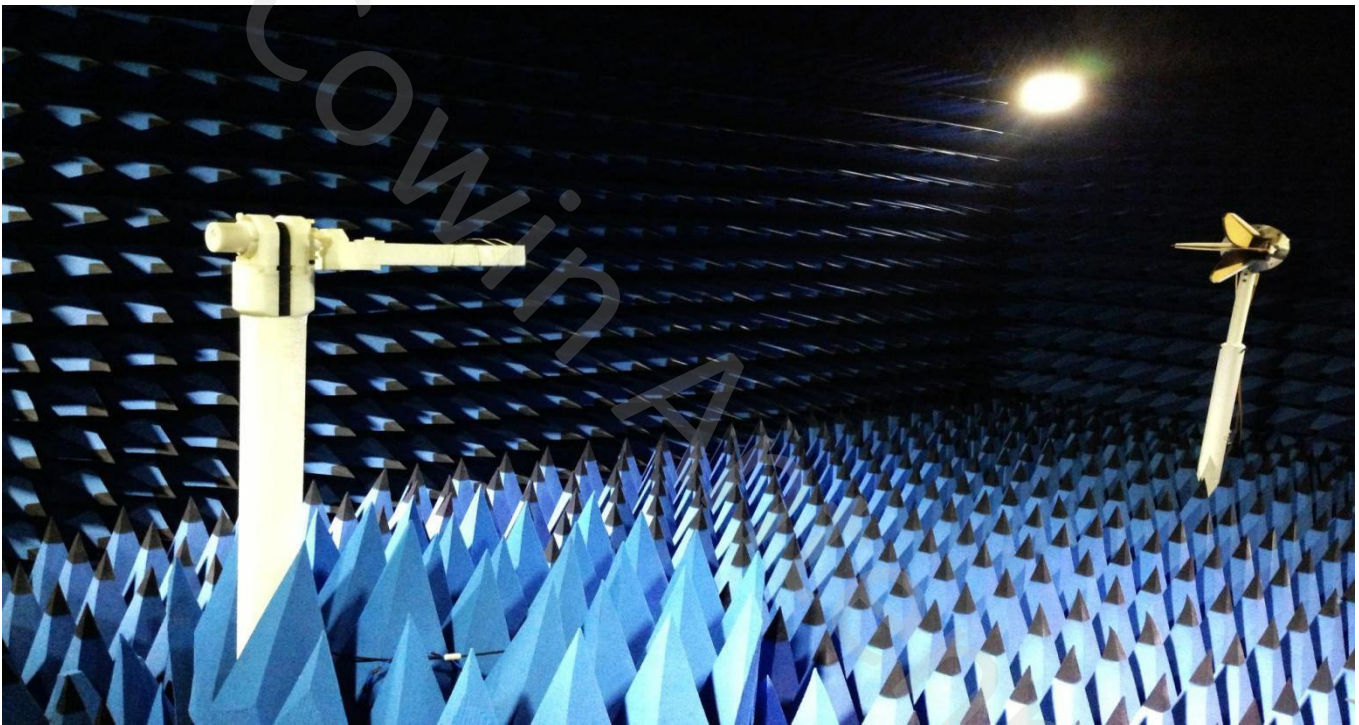
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

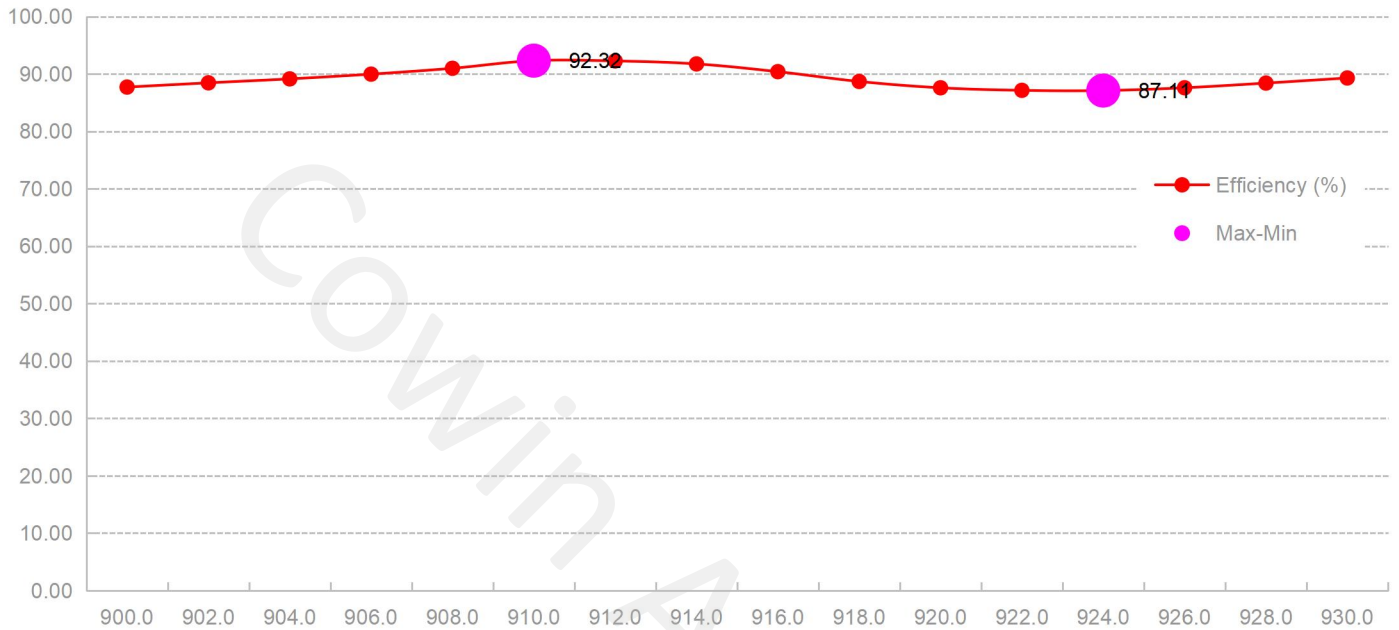
The comprehensive tester is Agilent cmv500



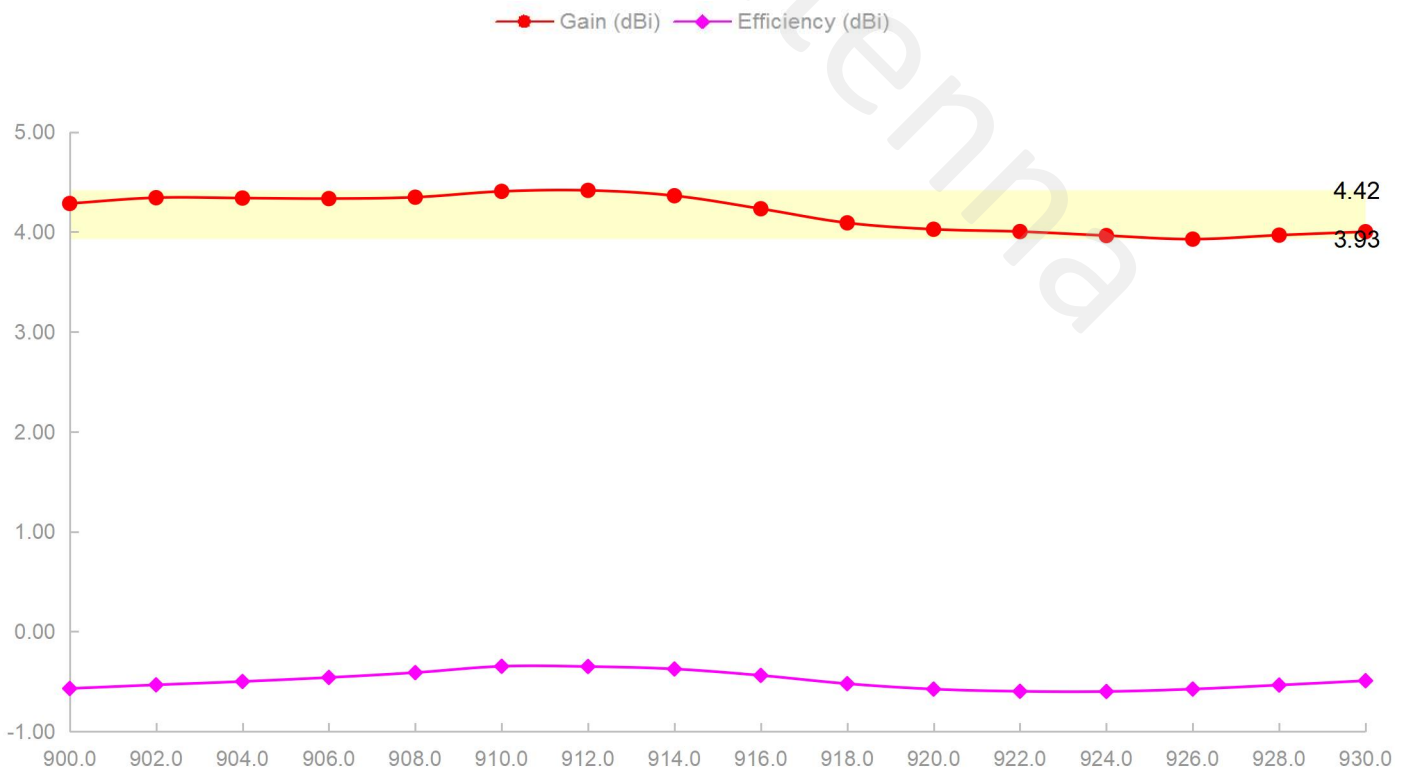
4.1 VSWR



4.2 Efficiency



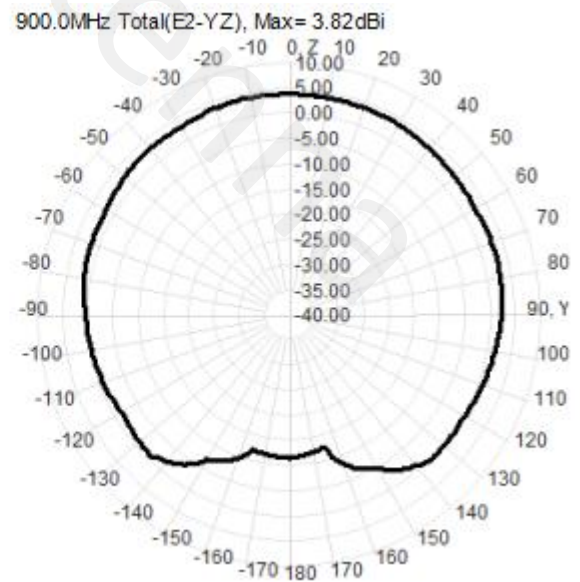
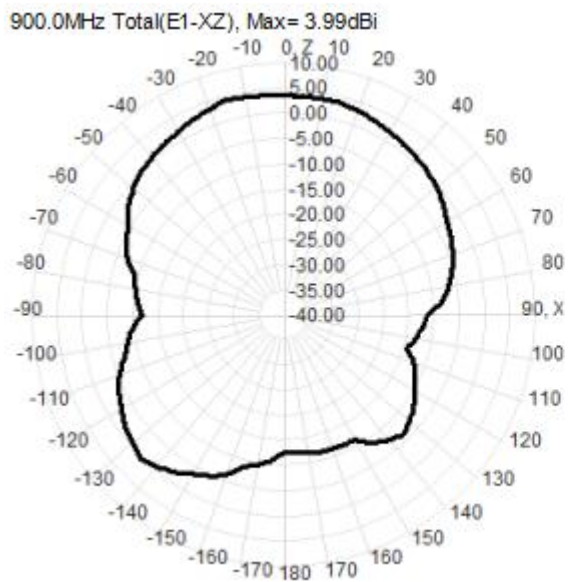
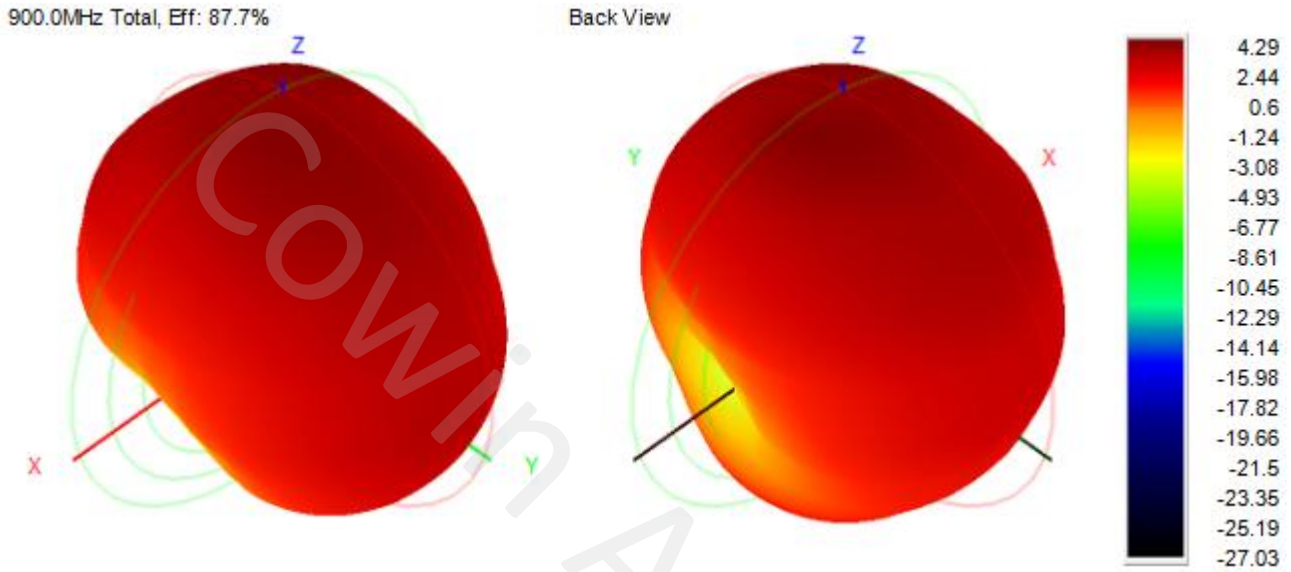
4.3 Peak gain



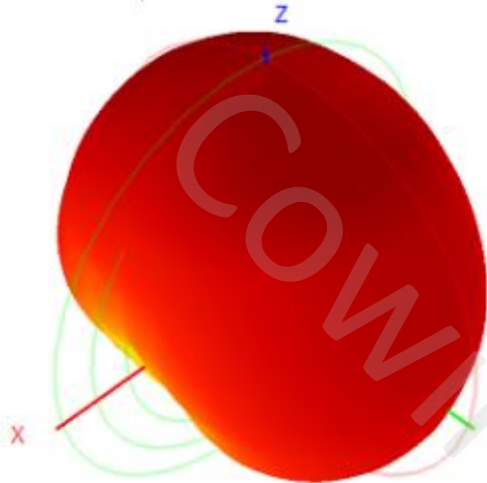
4.4 Data summary

Frequency (MHz)	Gain (dBi)	Efficiency (%)
900.0	4.29	87.72
902.0	4.34	88.46
904.0	4.34	89.15
906.0	4.33	89.97
908.0	4.35	90.99
910.0	4.41	92.32
912.0	4.42	92.27
914.0	4.36	91.75
916.0	4.23	90.40
918.0	4.09	88.69
920.0	4.03	87.59
922.0	4.00	87.15
924.0	3.96	87.11
926.0	3.93	87.60
928.0	3.97	88.41
930.0	4.00	89.30

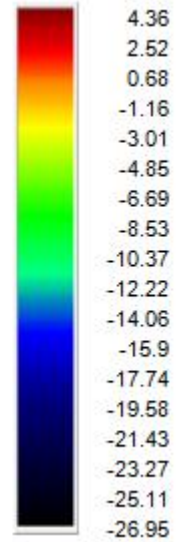
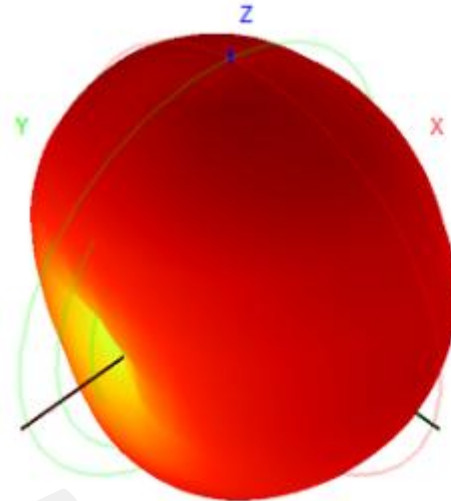
4.5 3D&2D Radiation Patterns



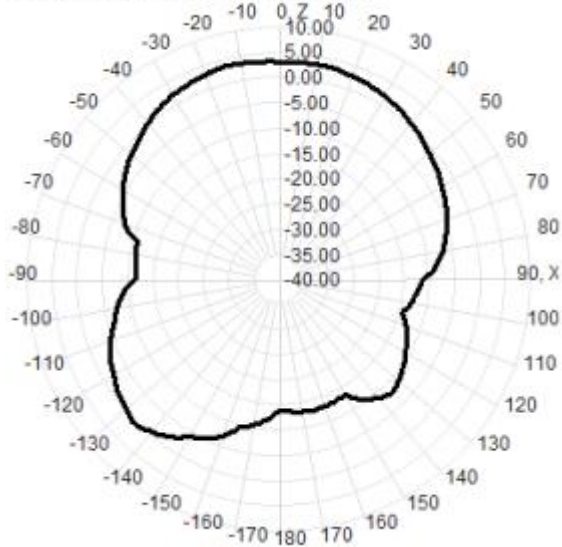
914.0MHz Total, Eff: 91.8%



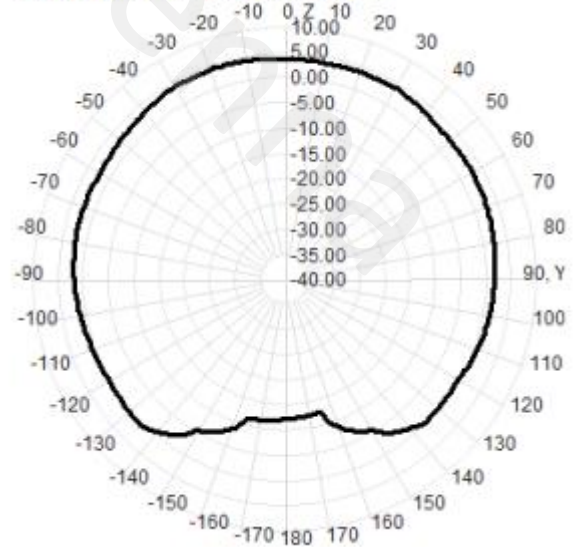
Back View



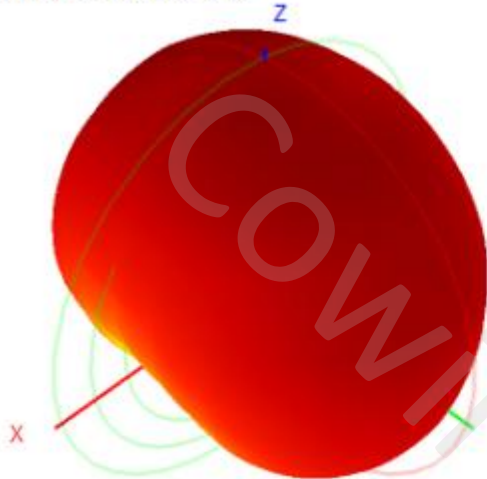
914.0MHz Total(E1-XZ), Max= 3.54dBi



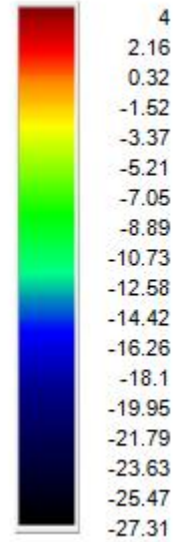
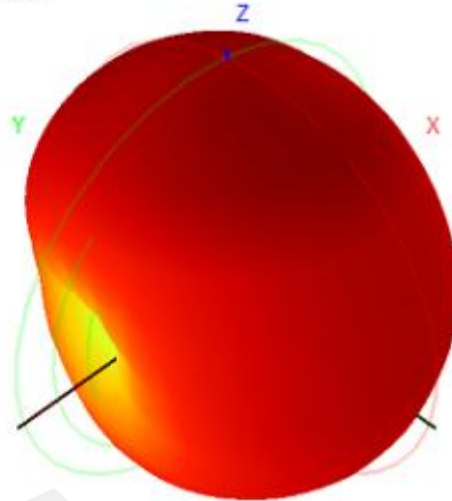
914.0MHz Total(E2-YZ), Max= 4.08dBi



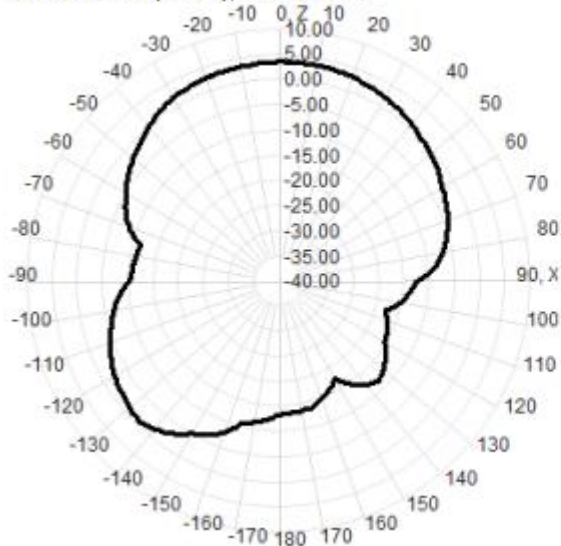
930.0MHz Total, Eff: 89.3%



Back View



930.0MHz Total(E1-XZ), Max= 3.45dBi



930.0MHz Total(E2-YZ), Max= 3.98dBi

