

CW-WZ-0236

450-470MHz External Antenna

Key Features

Frequency: 450-470MHz

Connector Type: TNC Male

Dimensions : 305 mm



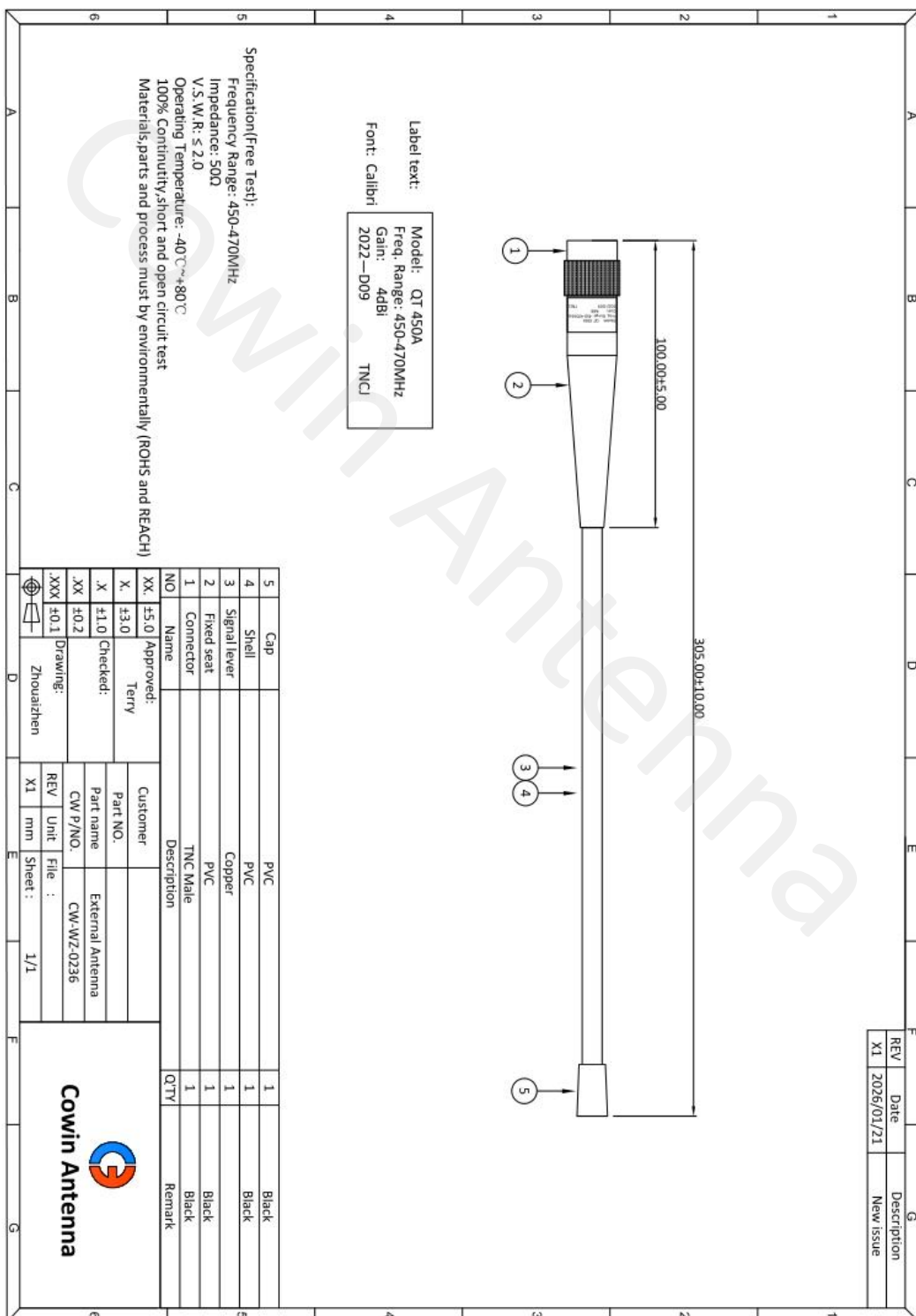
1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	450-470
VSWR	≤2.0
Efficiency (%)	97.39
Peak Gain (dBi)	4.18
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10

2. Material and environmental characteristics

External structure	PVC
Inner structure	Signal lever
Cable Type	N/A
Connector Type	TNC Male
Dimensions (mm)	305
Antenna color	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS

3. Antenna drawing



4. Antenna test parameters

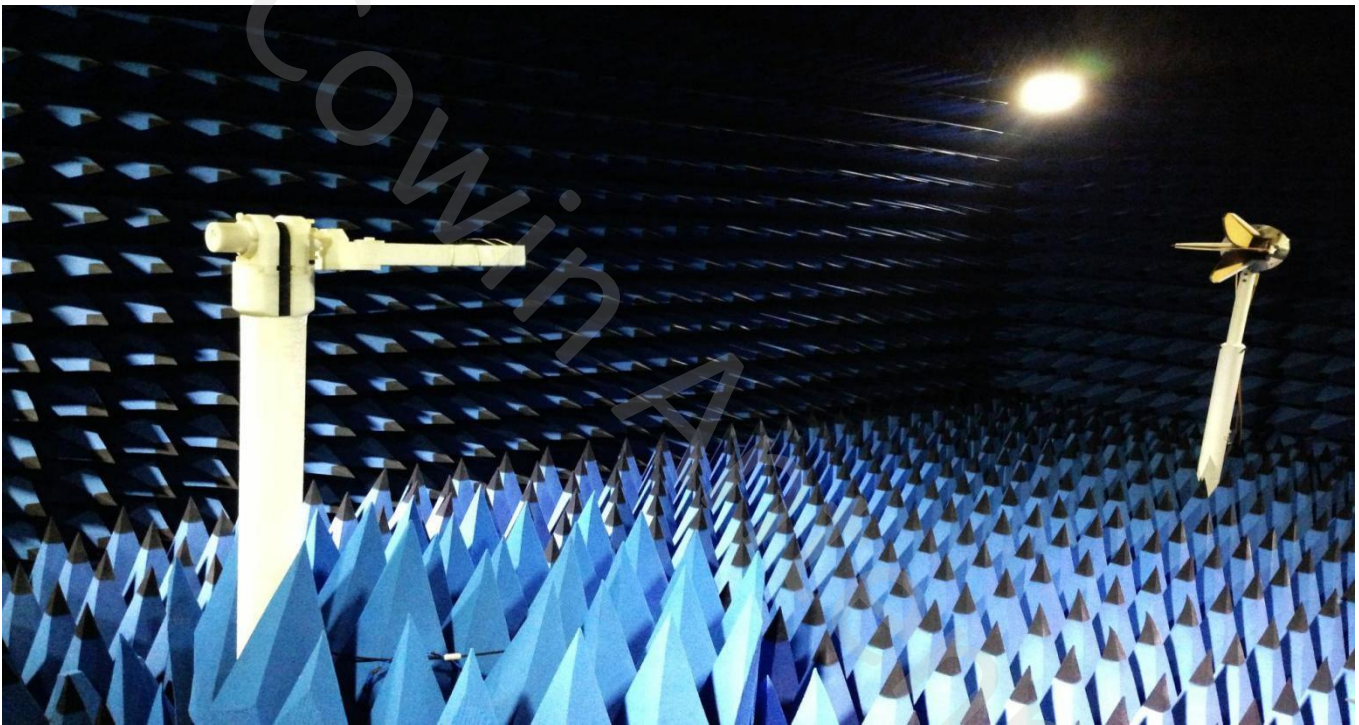
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

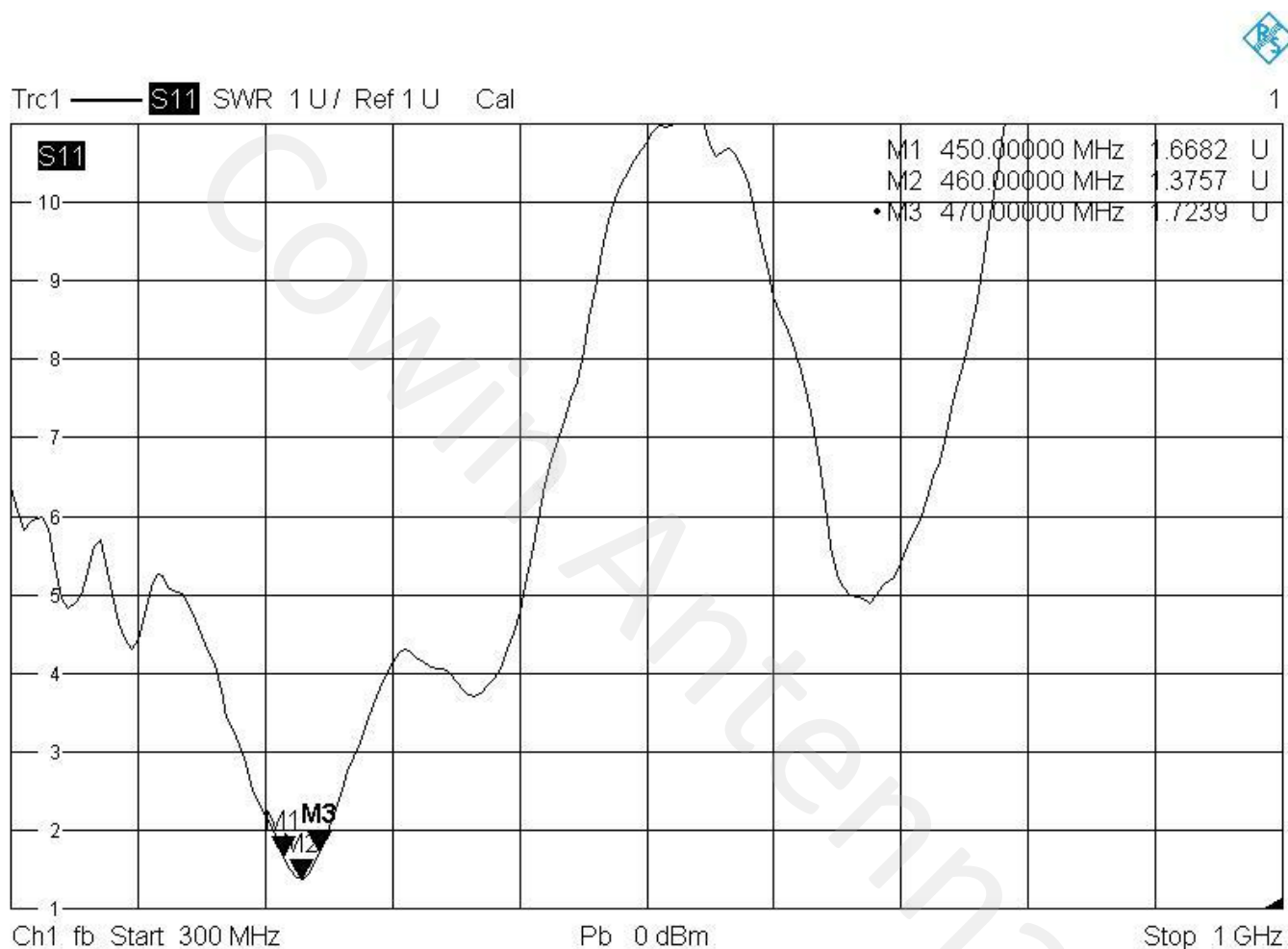
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

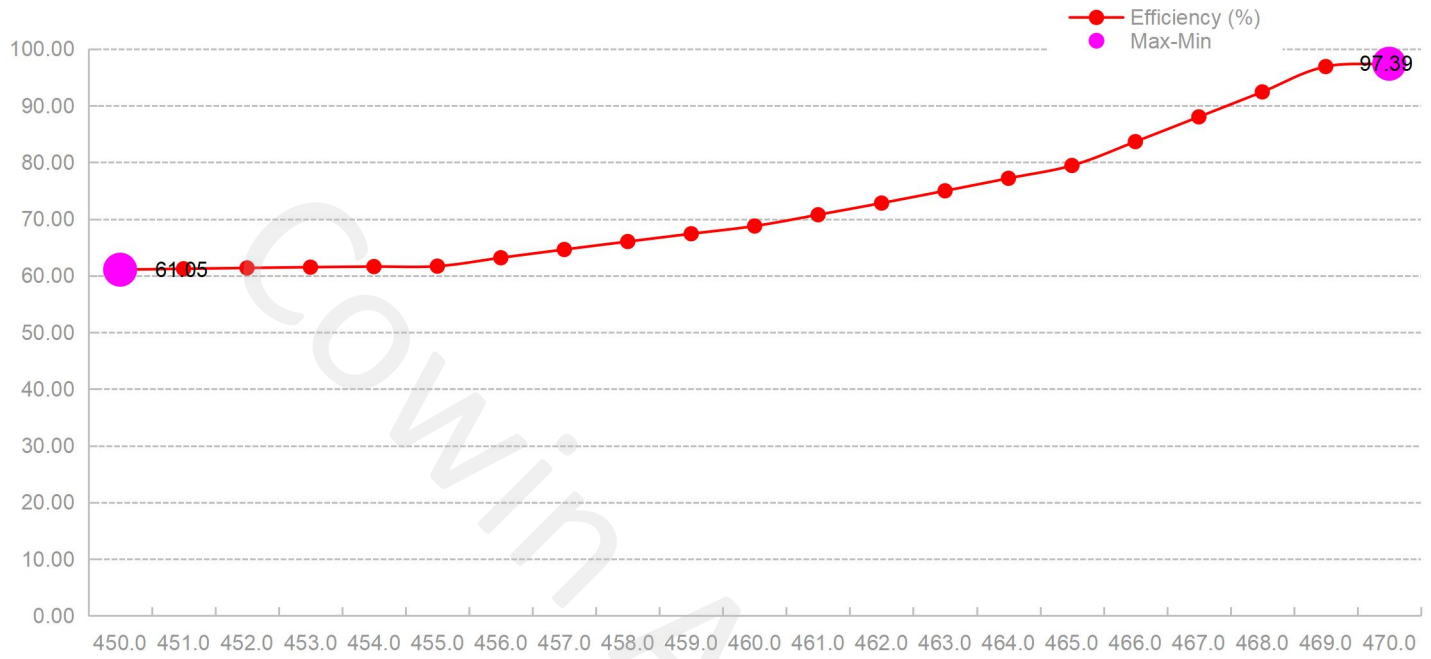
The comprehensive tester is Agilent cmv500



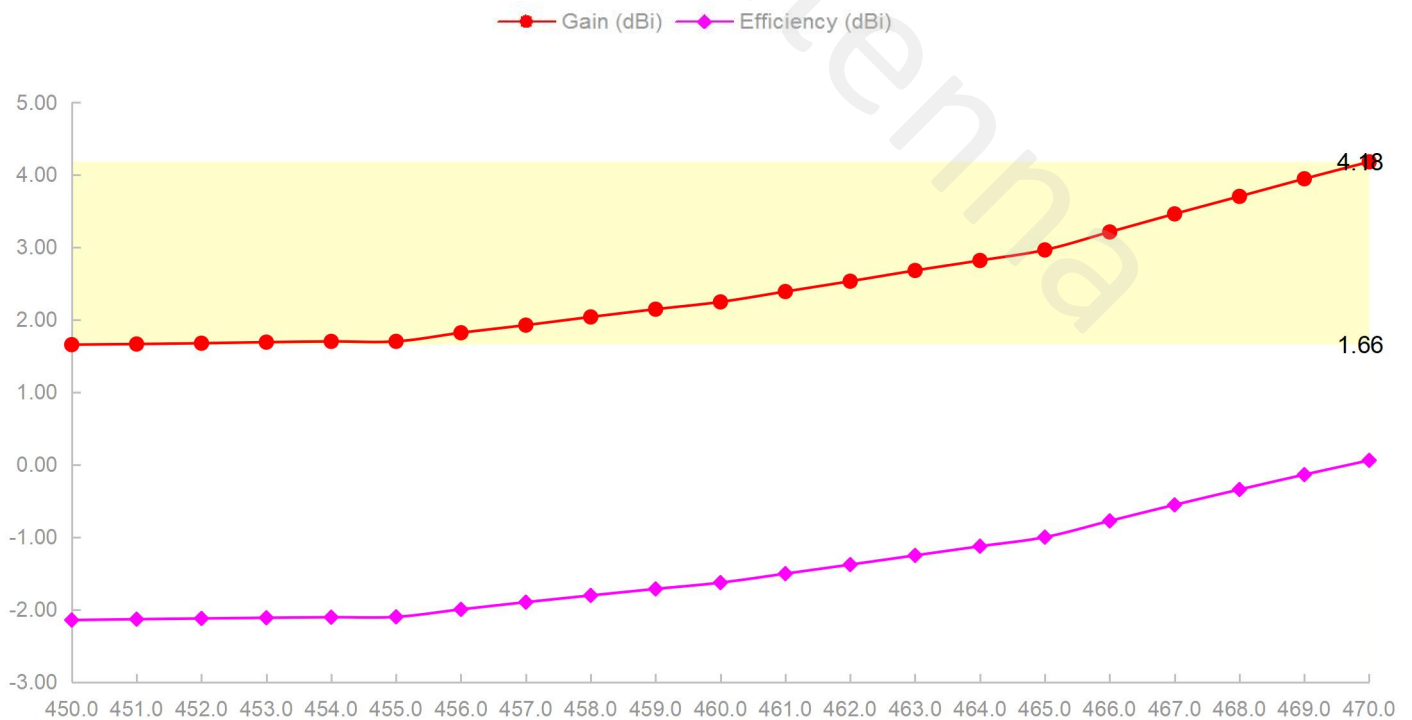
4.1 VSWR



4.2 Efficiency



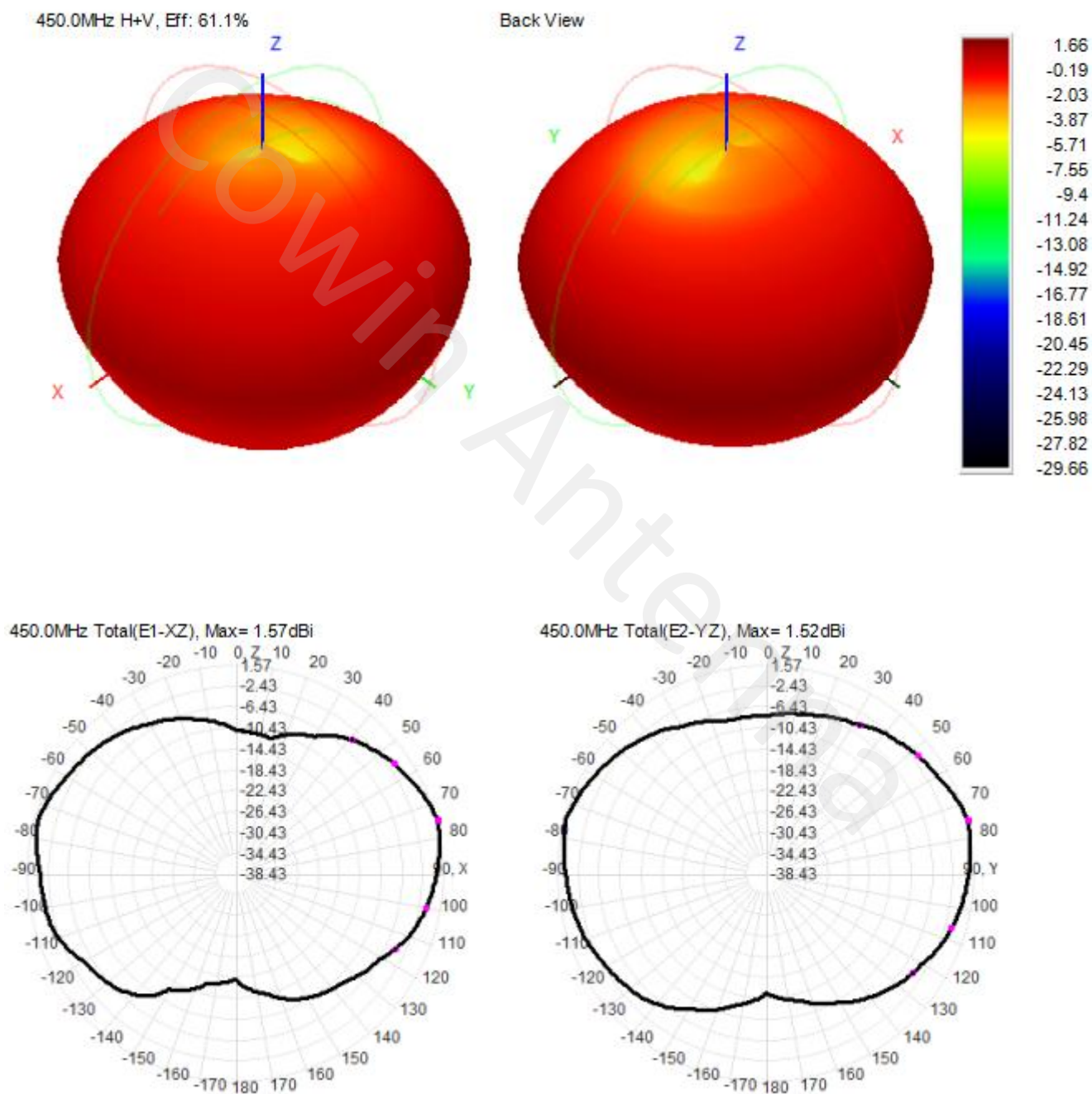
4.3 Peak gain



4.4 Data summary

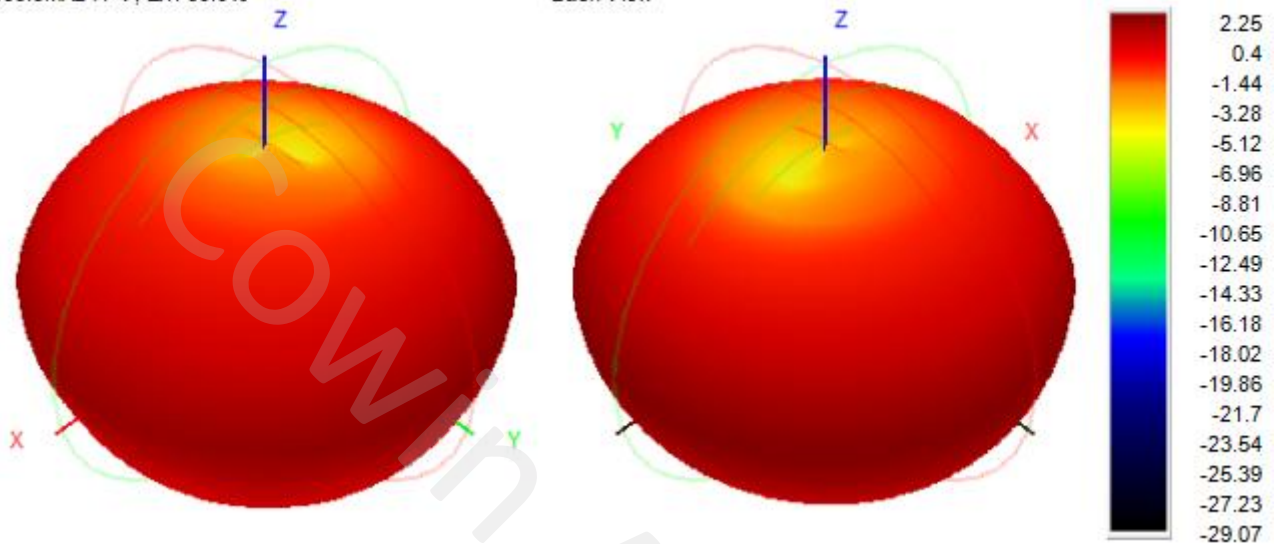
Frequency (MHz)	Gain (dBi)	Efficiency (%)
450.0	1.66	61.05
451.0	1.66	61.22
452.0	1.68	61.36
453.0	1.69	61.50
454.0	1.70	61.60
455.0	1.70	61.67
456.0	1.82	63.16
457.0	1.93	64.62
458.0	2.04	66.02
459.0	2.15	67.39
460.0	2.25	68.76
461.0	2.39	70.74
462.0	2.53	72.81
463.0	2.68	74.97
464.0	2.82	77.18
465.0	2.96	79.44
466.0	3.21	83.65
467.0	3.46	88.02
468.0	3.70	92.42
469.0	3.94	96.90
470.0	4.18	97.39

4.5 3D&2D Radiation Patterns



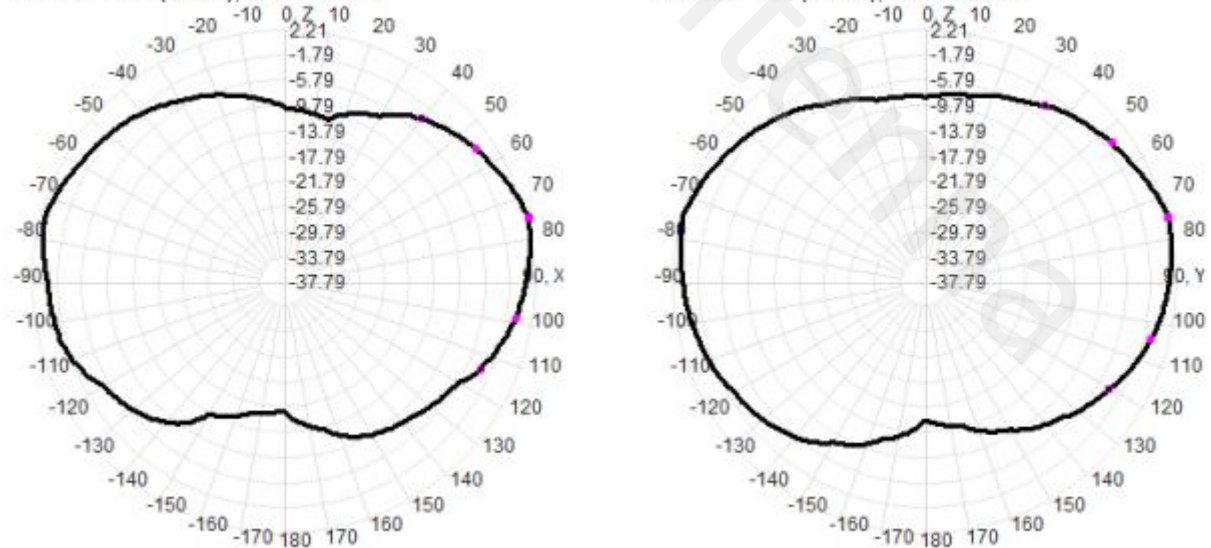
460.0MHz H+V, Eff: 68.8%

Back View



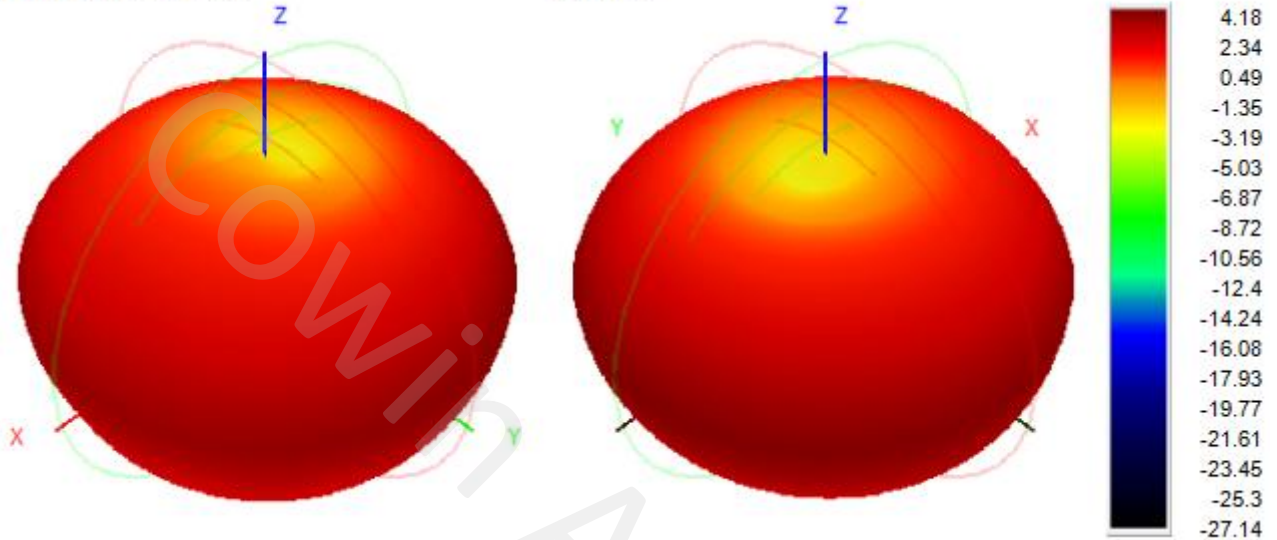
460.0MHz Total(E1-XZ), Max= 2.21dBi

460.0MHz Total(E2-YZ), Max= 2.08dBi



470.0MHz H+V, Eff: 97.4%

Back View



470.0MHz Total(E1-XZ), Max= 4.18dBi

470.0MHz Total(E2-YZ), Max= 3.90dBi

