CW-WZ-0238

450-470MHz External Antenna

Cowin Antenna

Key Features

Frequency: 450-470MHz

Connector Type: TNC Male

Dimensions : 360 mm

1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	450-470
VSWR	≤2.0
Efficiency (%)	91.84
Peak Gain (dBi)	4.23
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)	360
Antenna color	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS

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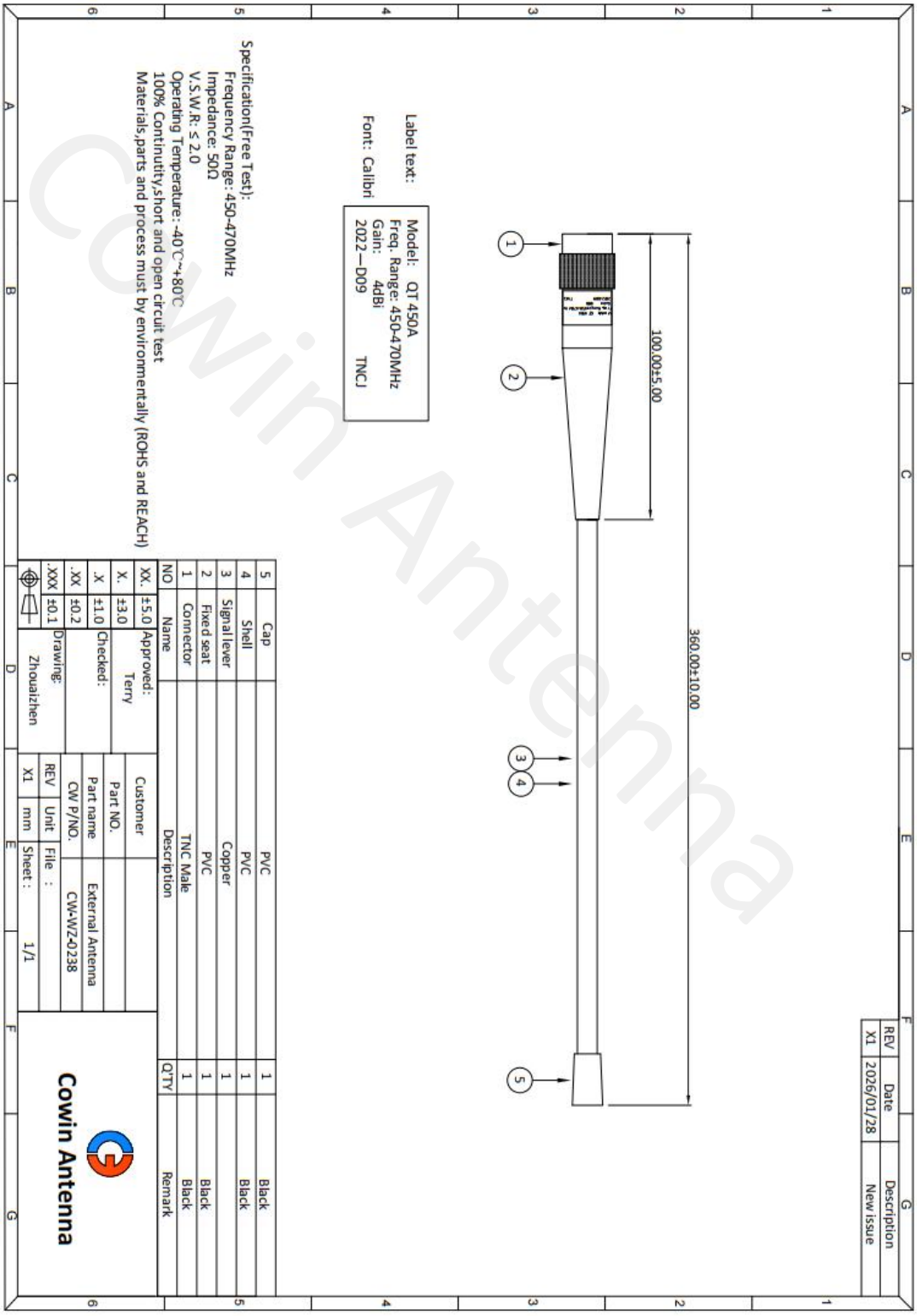
3. Antenna drawing



4. Antenna test parameters

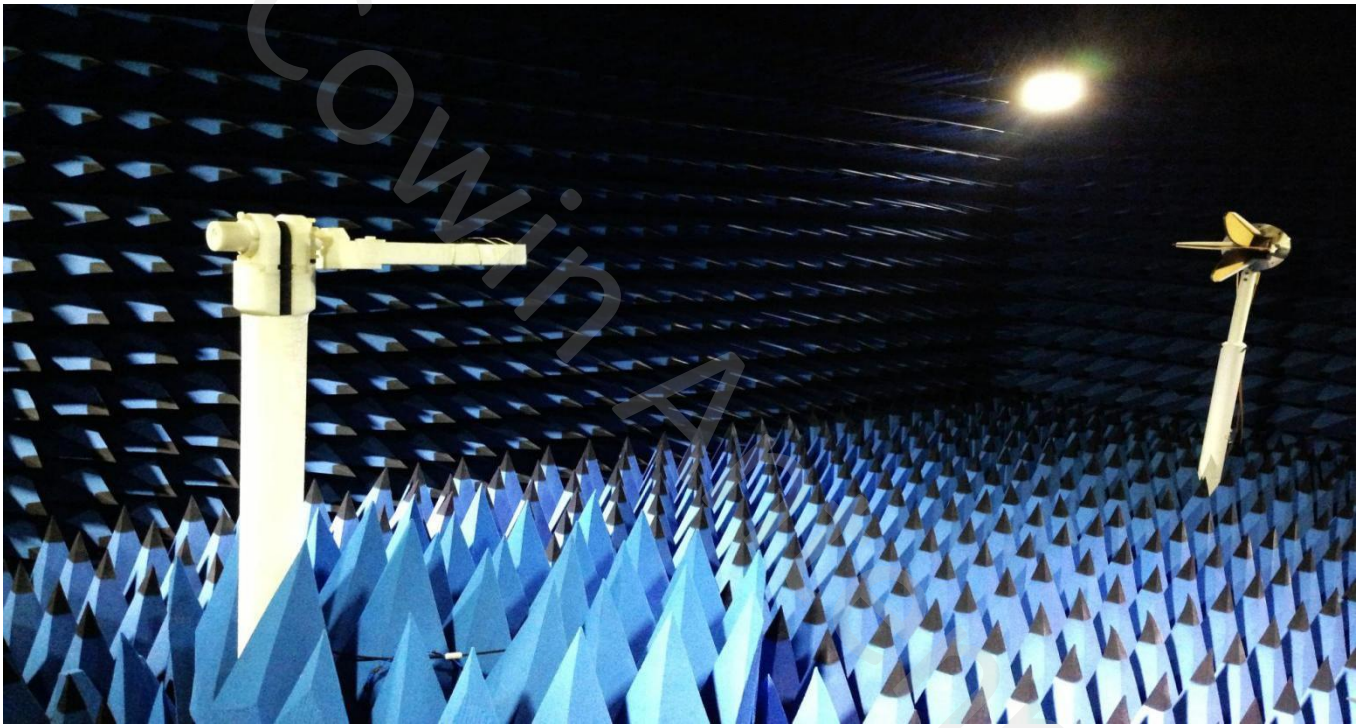
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

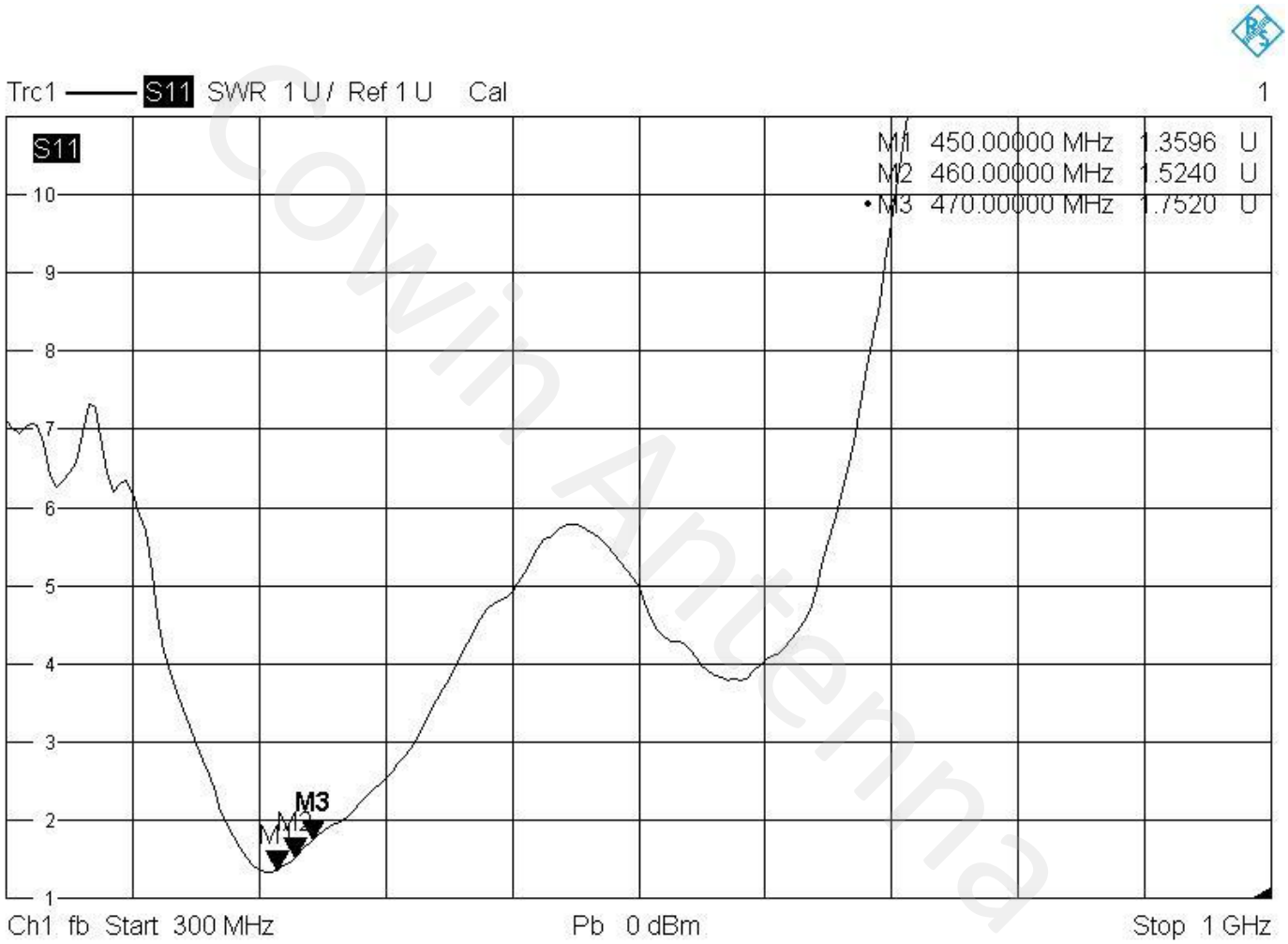
The comprehensive tester is Agilent cmv500







4.1 VSWR



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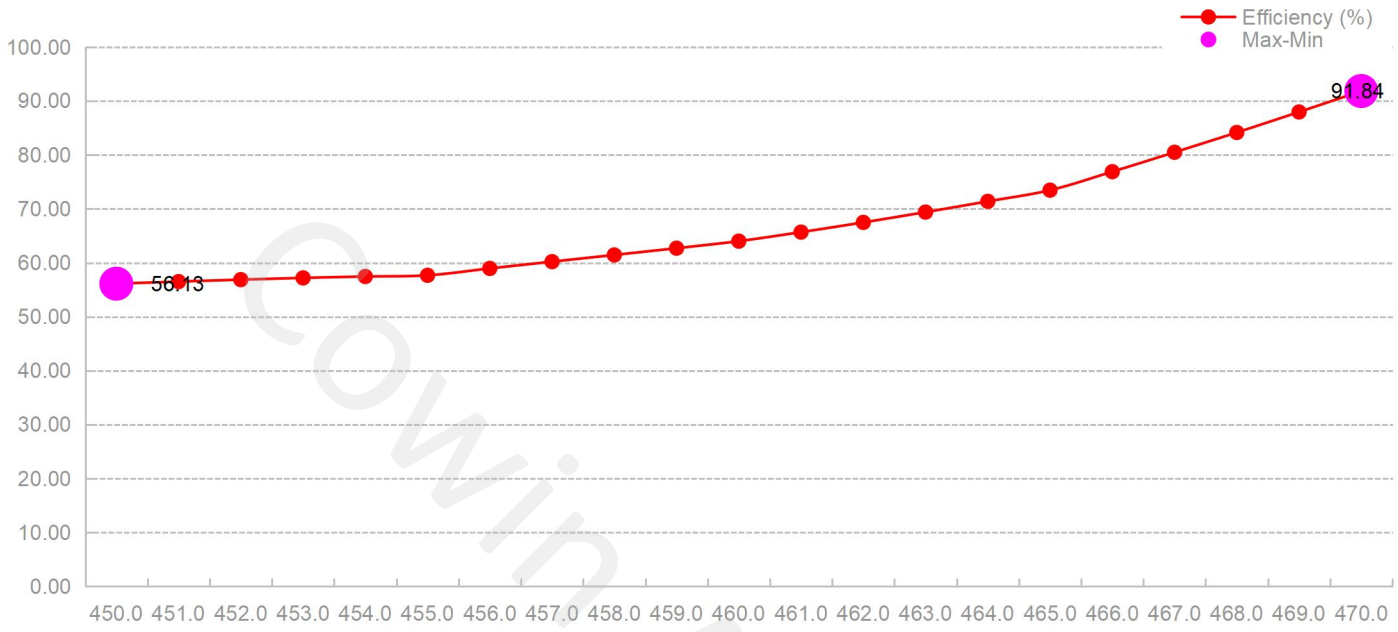
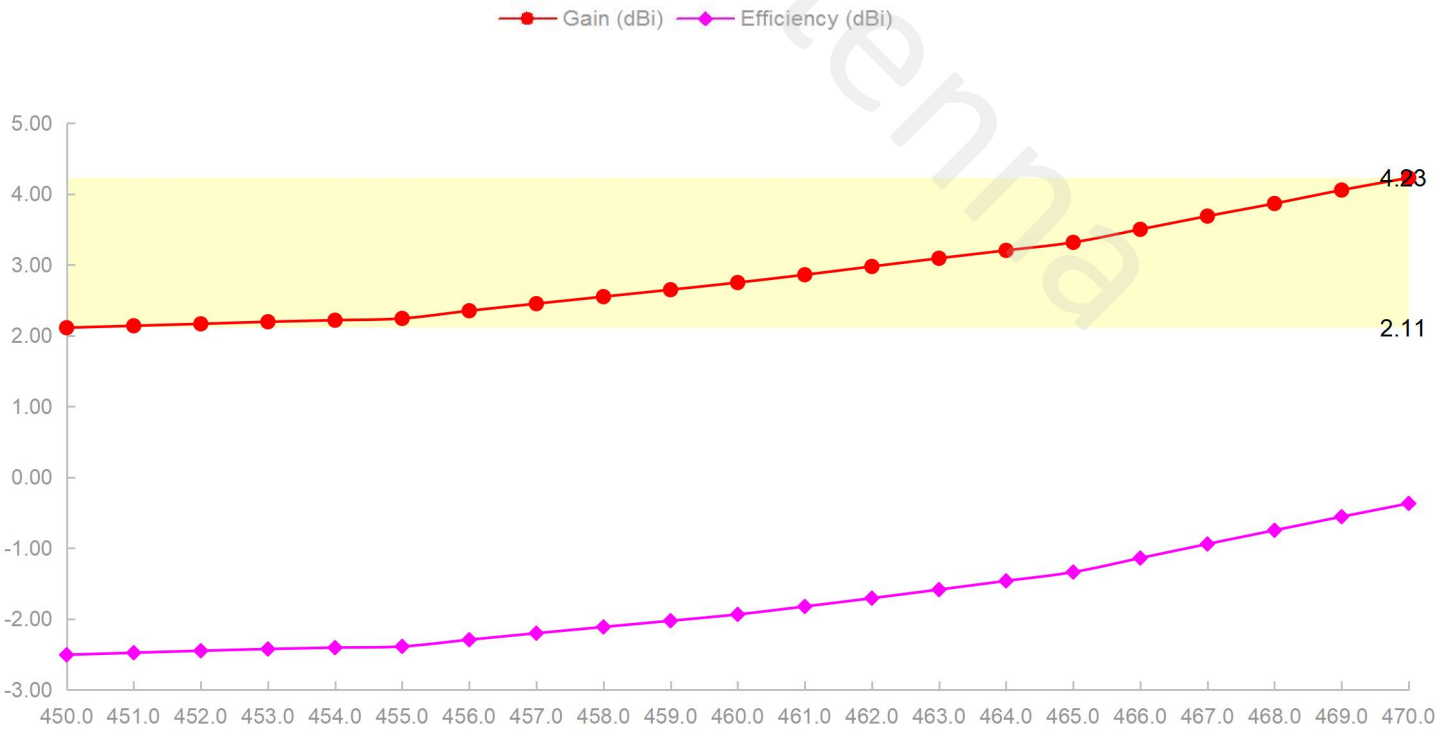
4.2 Efficiency



4.3 Peak gain



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4.4 Data summary

Frequency (MHz)	Gain (dBi)	Efficiency (%)
450.0	2.11	56.13
451.0	2.14	56.51
452.0	2.17	56.88
453.0	2.20	57.20
454.0	2.22	57.46
455.0	2.24	57.68
456.0	2.35	58.96
457.0	2.45	60.21
458.0	2.55	61.46
459.0	2.65	62.71
460.0	2.75	64.02
461.0	2.86	65.69
462.0	2.98	67.49
463.0	3.09	69.40
464.0	3.20	71.39
465.0	3.32	73.46
466.0	3.50	76.89
467.0	3.69	80.49
468.0	3.87	84.16
469.0	4.06	87.96
470.0	4.23	91.84

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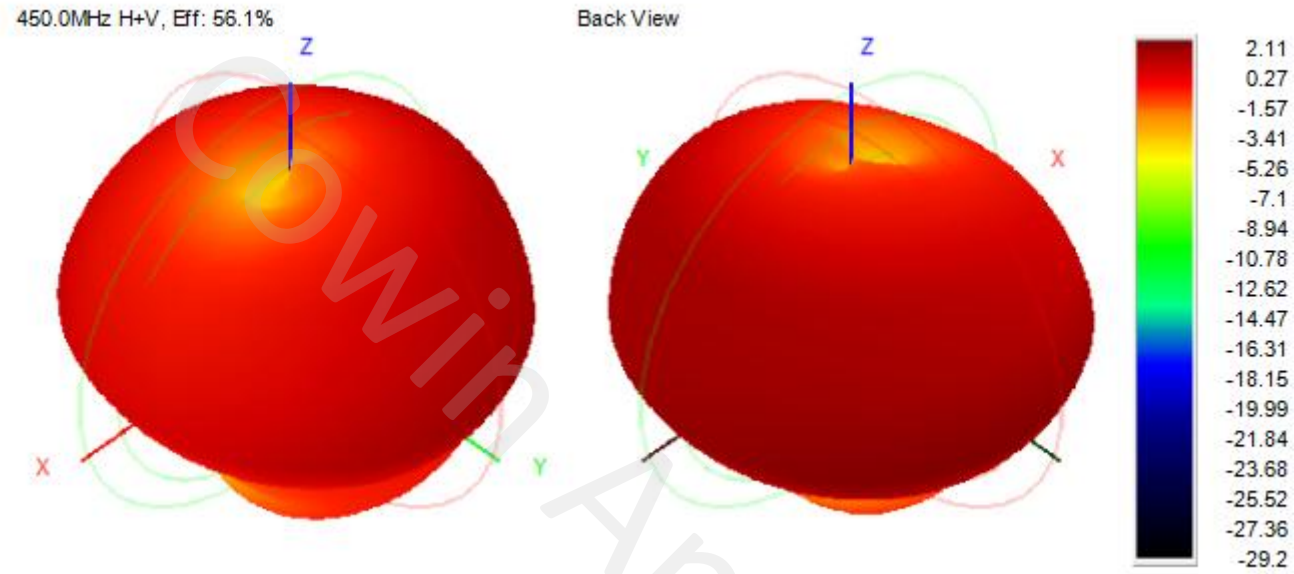
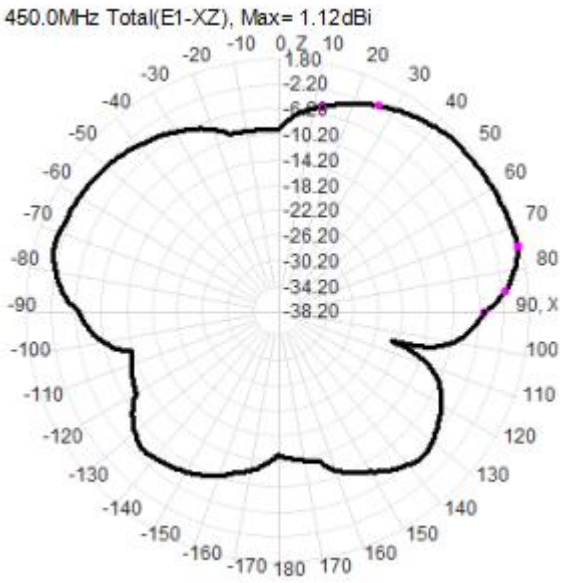
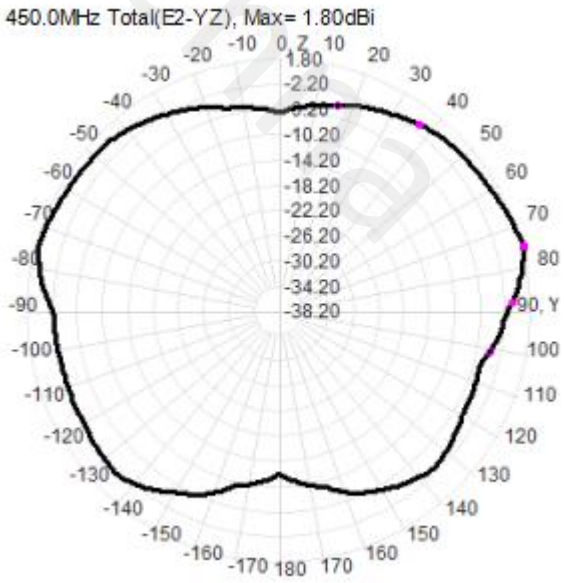
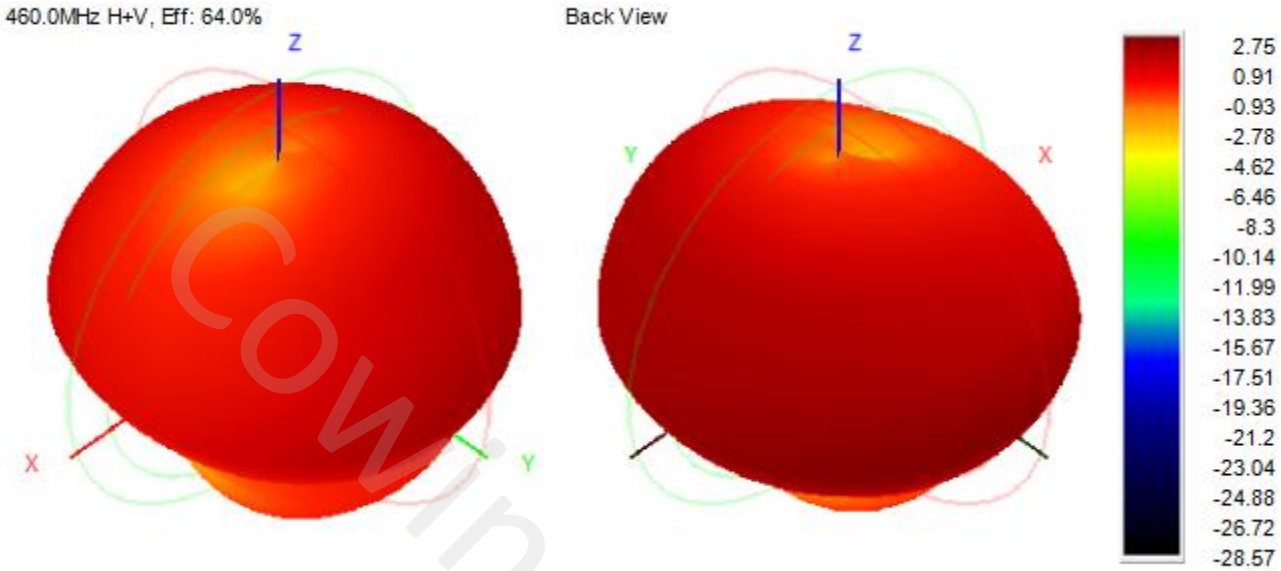
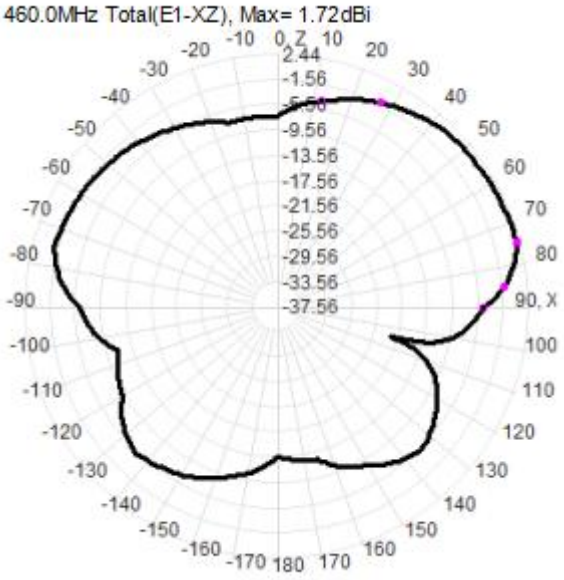
4.5 3D&2D Radiation Patterns

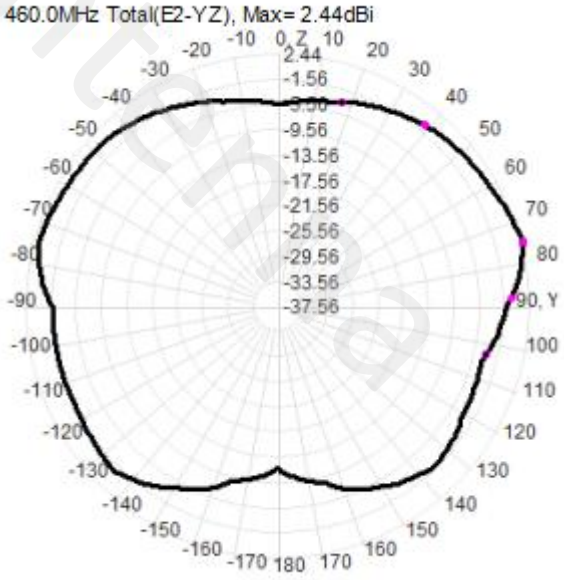












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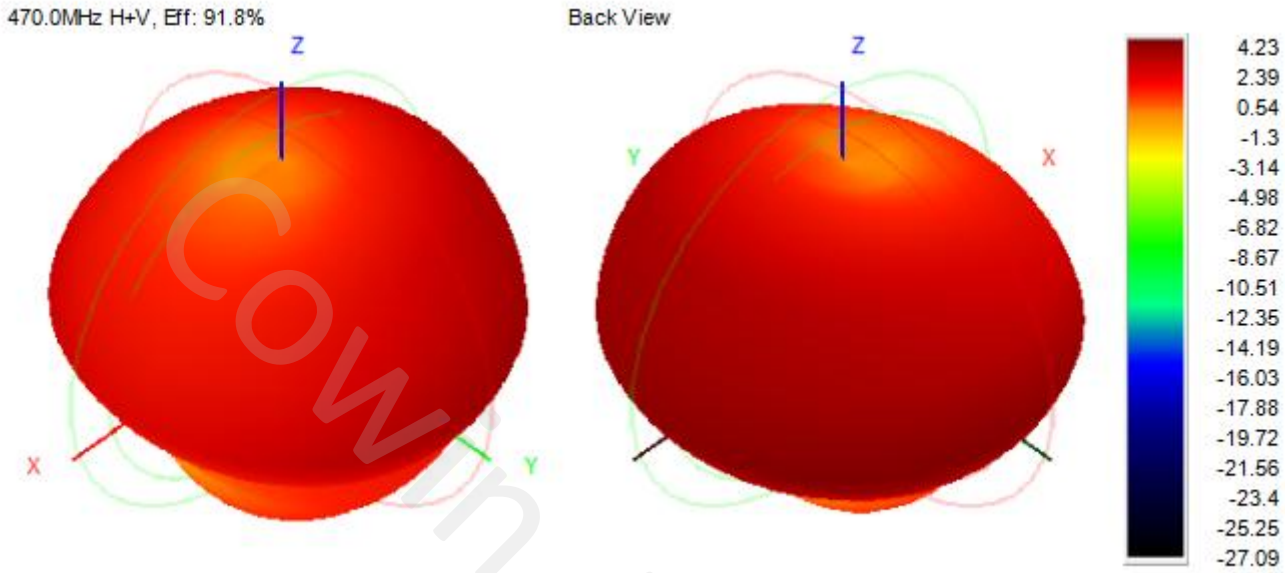

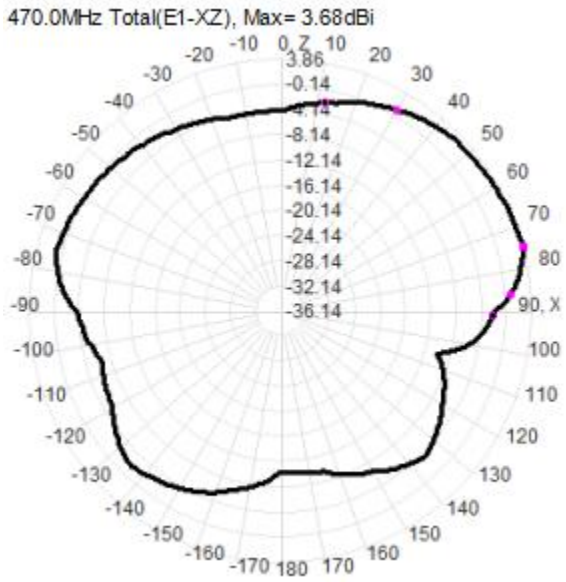

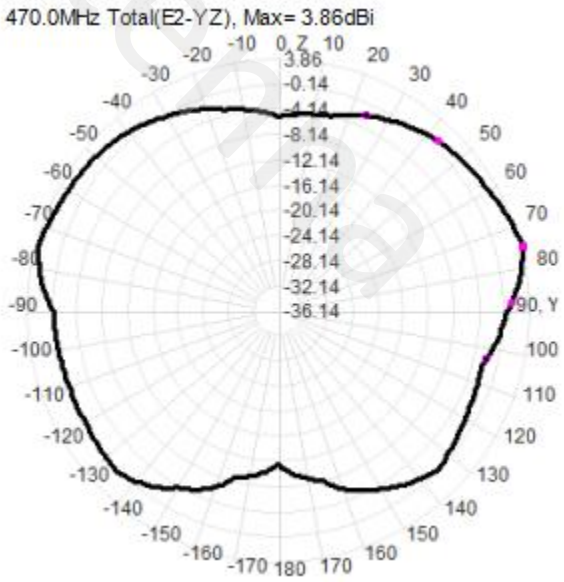

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