COWIN

Product Datasheet

CW-WZ-0082

4G/2.4G External Antenna

Key Features

Frequency:824-960MHZ/1710-2700MHZ/2.4-2.5G

I-PEX Connector

Screw Mount

Dimensions 46*16mm

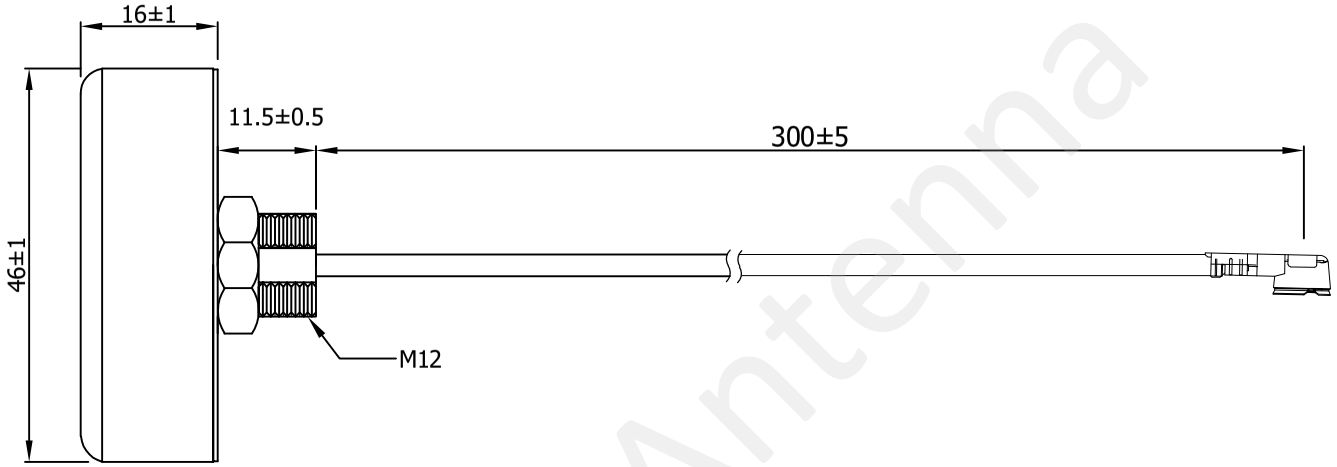
1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	824-960MHz/1710-2700MHz/2.4-2.5G
VSWR	3.5/3.5/2.5
Efficiency (%)	61.56%/58.48%/56.57%
Peak Gain (dBi)	4.35/3.98/3.98
Impendance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	I-PEX

2. Material and environmental characteristics

Inner structure	PCB
Material of Plastic	ABS
Cable Type	RG178
Connector Type	I-PEX
Dimensions (mm)	46*16MM
Antenna color	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS

REV	Date	Description
X1	2022/08/22	New issue



Specification(Free Test):

Frequency Range: 824-960MHZ/1710-2700MHZ/2.4-2.5G

Impedance: 50Ω

V.S.W.R: ⩽3.5/3.5/2.5

100% Continutity,short and open circuit test

Materials,parts and process must by environmentally (ROHS)

NO	Name	Description	Q'TY	Remark
5	Foam cotton	45.5*1MM	1	
4	PCB	FR4	1	
3	Radome	Black ABS	1	
2	Cable	RG178	1	
1	Connector	φ178 I-PEX I(equivalents)	1	

XX.	±5.0	Approved	Customer	
X.	±3.0		Part NO.	
.X	±1.0	Checked	Part name	External antenna
.XX	±0.2		CW P/NO.	CW-WZ-0082
.XXX	±0.1	Drawing	REV / Unit / File :	
			X1 / m/m / Sheet : 1/1	

Cowin Antenna

4. Antenna test parameters

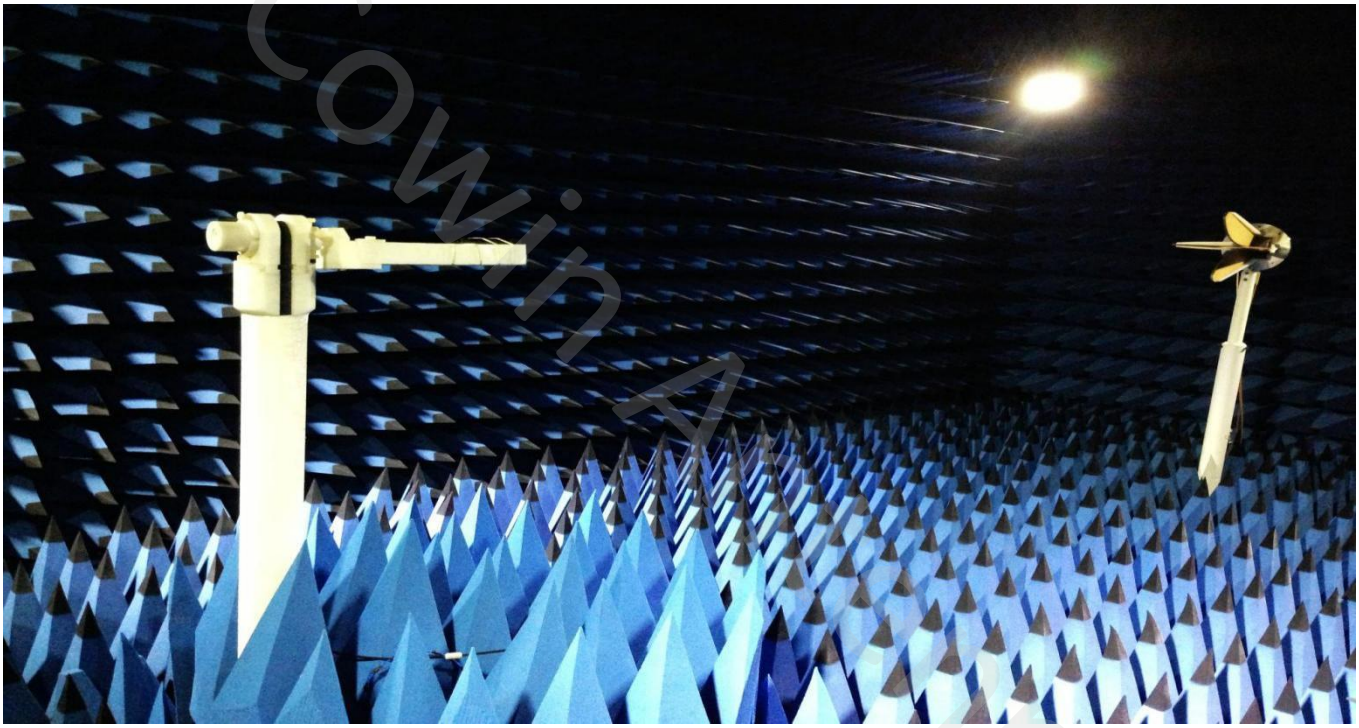
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

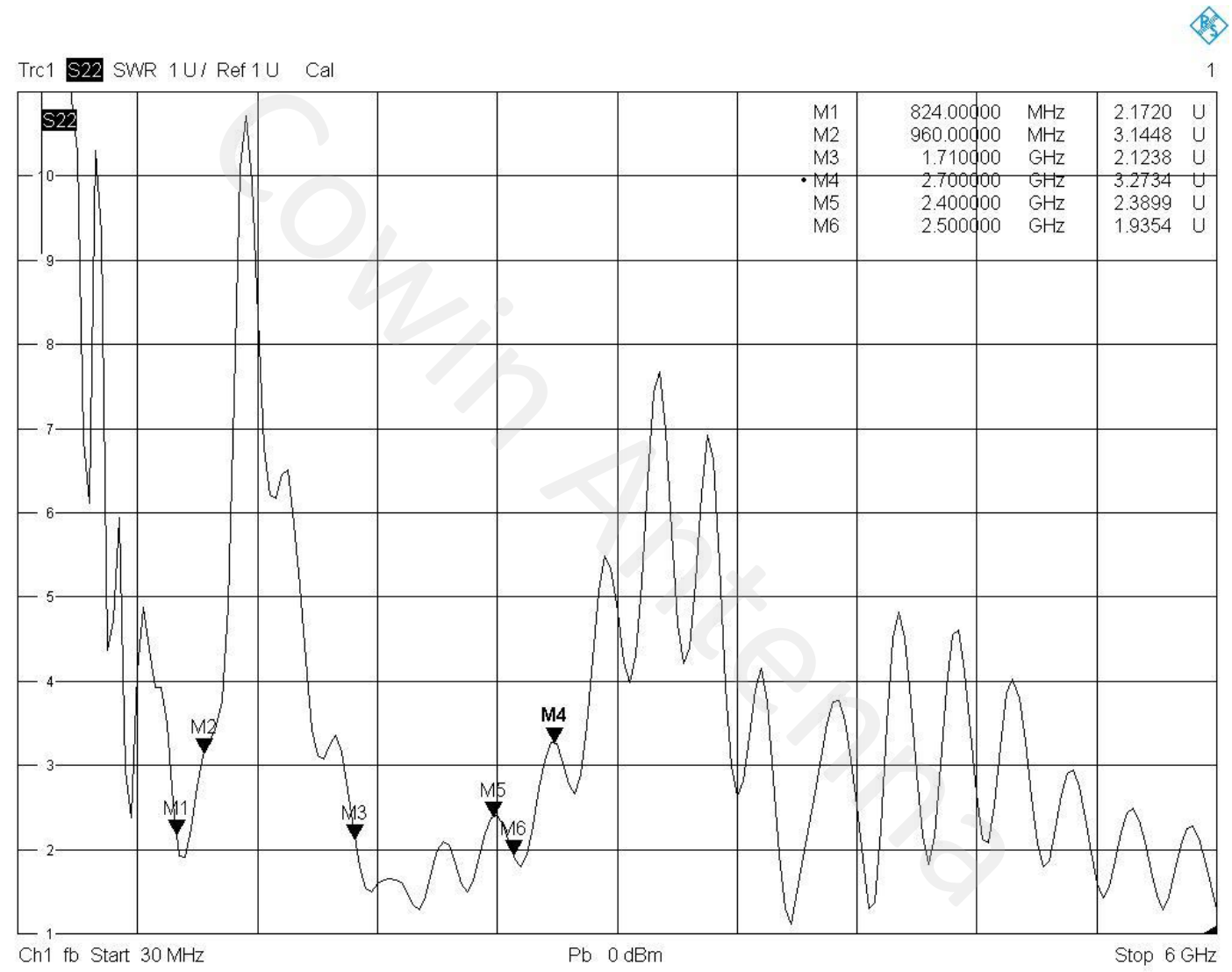
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

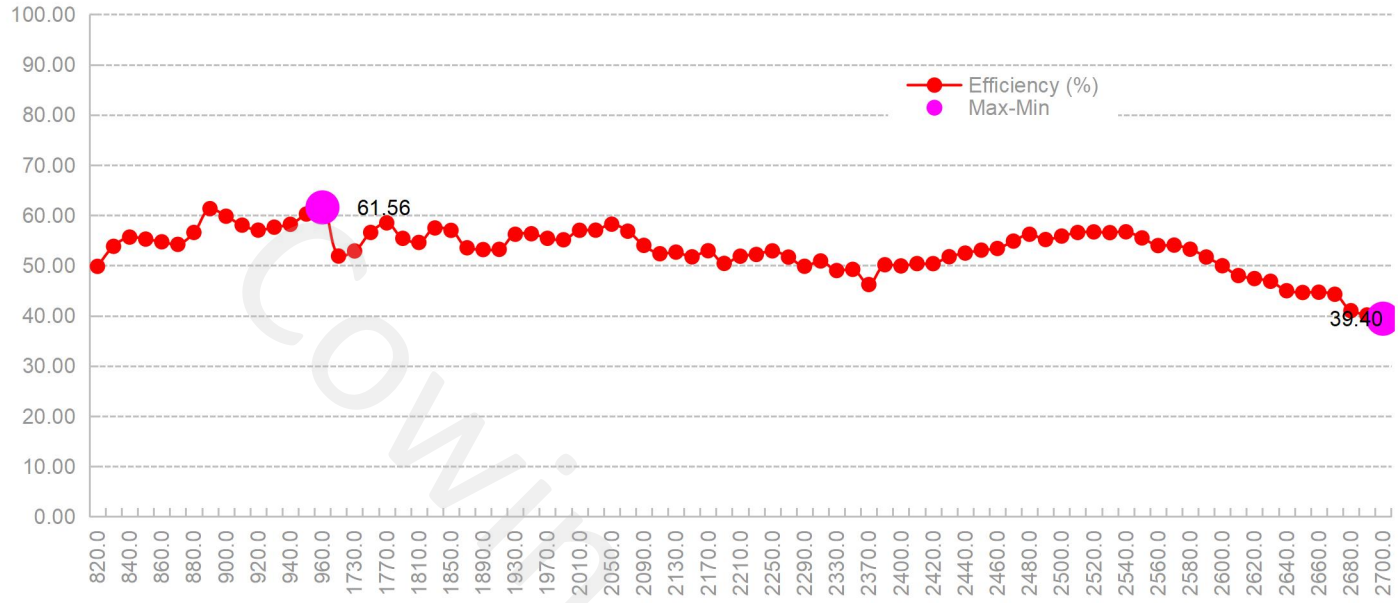
The comprehensive tester is Agilent cmv500



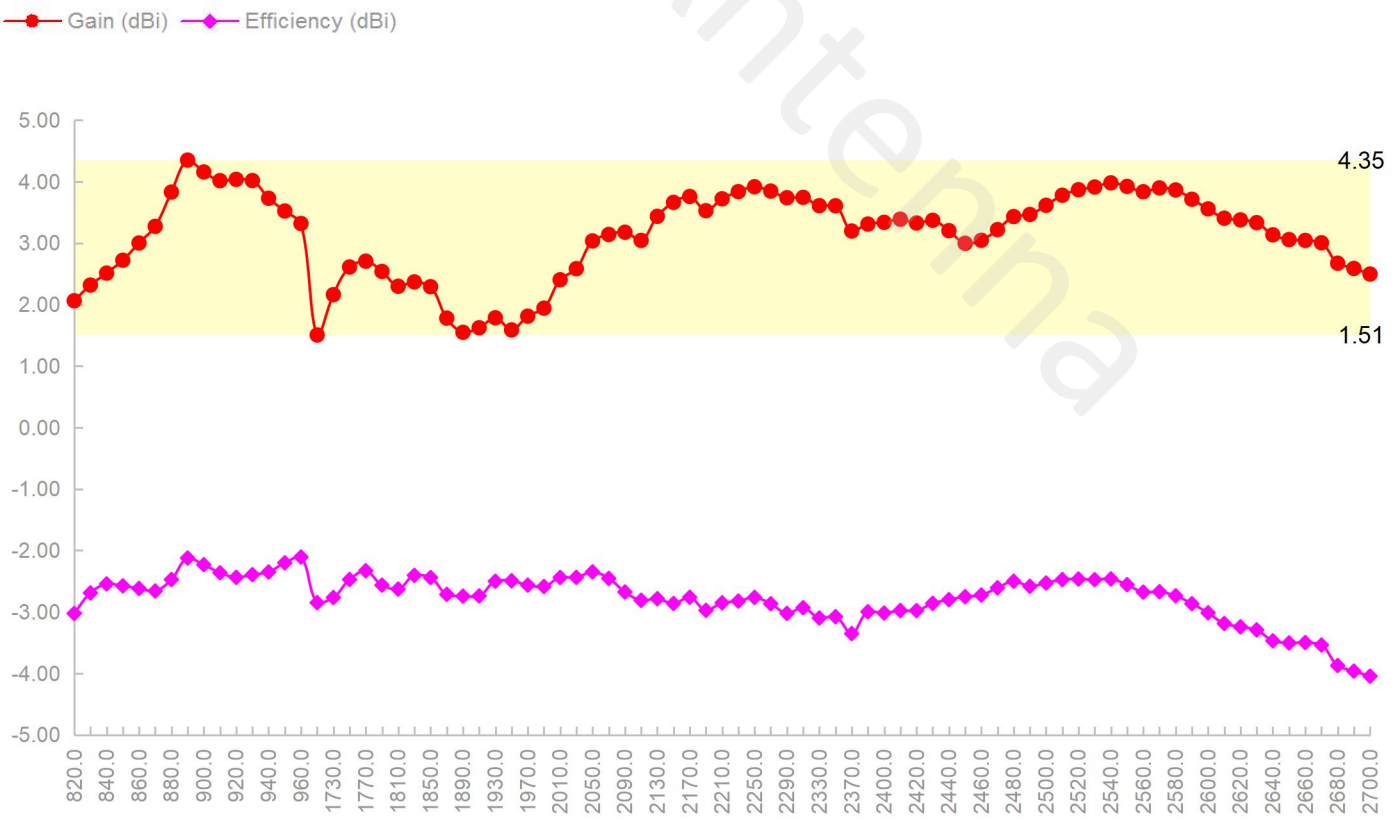
4.1 VSWR



4.2 Efficiency



4.3 Peak gain



4.4 3D&2D Radiation Patterns