CW-WZ-0002

2.4G/5.8G External Antenna

Key Features

Frequency: 2.4G-2.5G/4.9G-5.85G

SMA Male Connector

External Rubber

Dimensions 158*17 mm

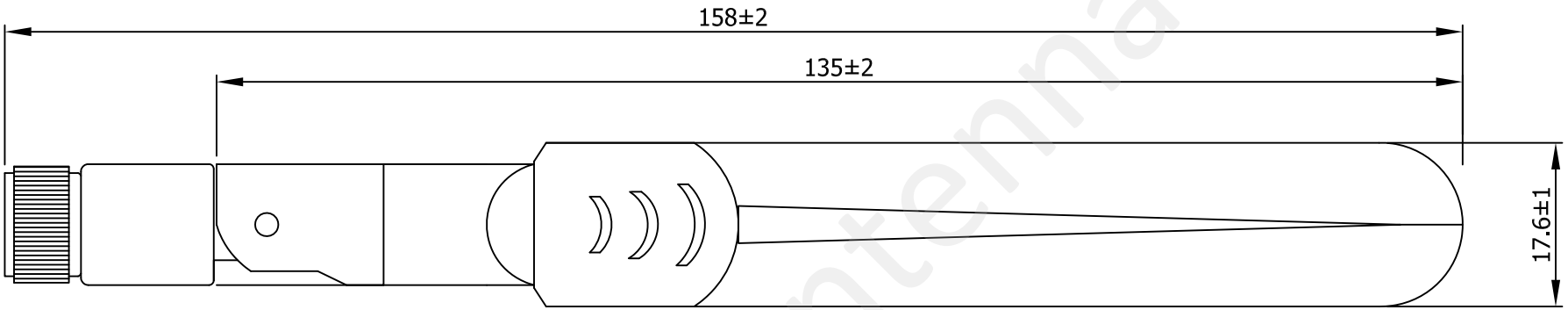
1. Antenna Electrical Characteristics

Band (MHz)		
Frequency (MHz)	2.4G-2.5G	4.9G-5.85G
VSWR	2.5:1	2.5:1
Efficiency (%)	56.5%	49.45%
Peak Gain (dBi)	1.99	3.52
Impendance (Ohm)	50	
Polarisation	Vertical	
Max. Input Power (W)	10	
Connector Type	SMA male	

2. Material and environmental characteristics

Material of PCB	FR4
Material of Plastic	PC+PBT/ABS
Cable Type	RG178
Connector Type	SMA male
Dimensions (mm)	158*17MM
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	2021/08/27	New issue



NO	Name	Description	Q'TY	Remark
6	Radome	Black ABS	1	
5	Lower fixing seat	Black PC+PBT	1	
4	Upper fixing seat	Black PC+PBT	1	
3	Connector	Black SMA male	1	
2	Cable	RG178 Single silver wire	1	
1	PCB	FR4	1	

Specification(Free Test):

Frequency Range: 2.4-2.5G/4.9-5.85G

Impedance: 50Ω

V.S.W.R: ⩽2.5

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-0002
.XXX	±0.1	Drawing	REV / Unit / File :	
			X1 / m/m / Sheet : 1/1	

Cowin Antenna

4. Antenna test parameters

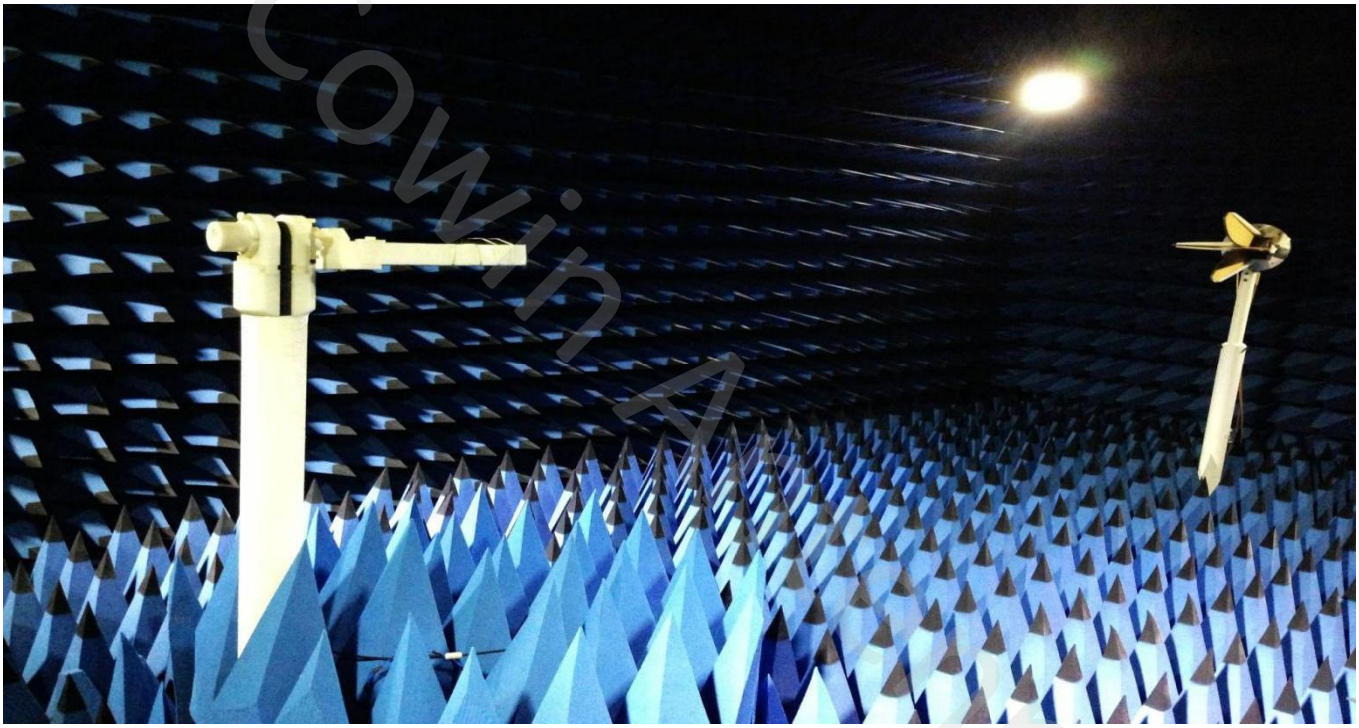
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

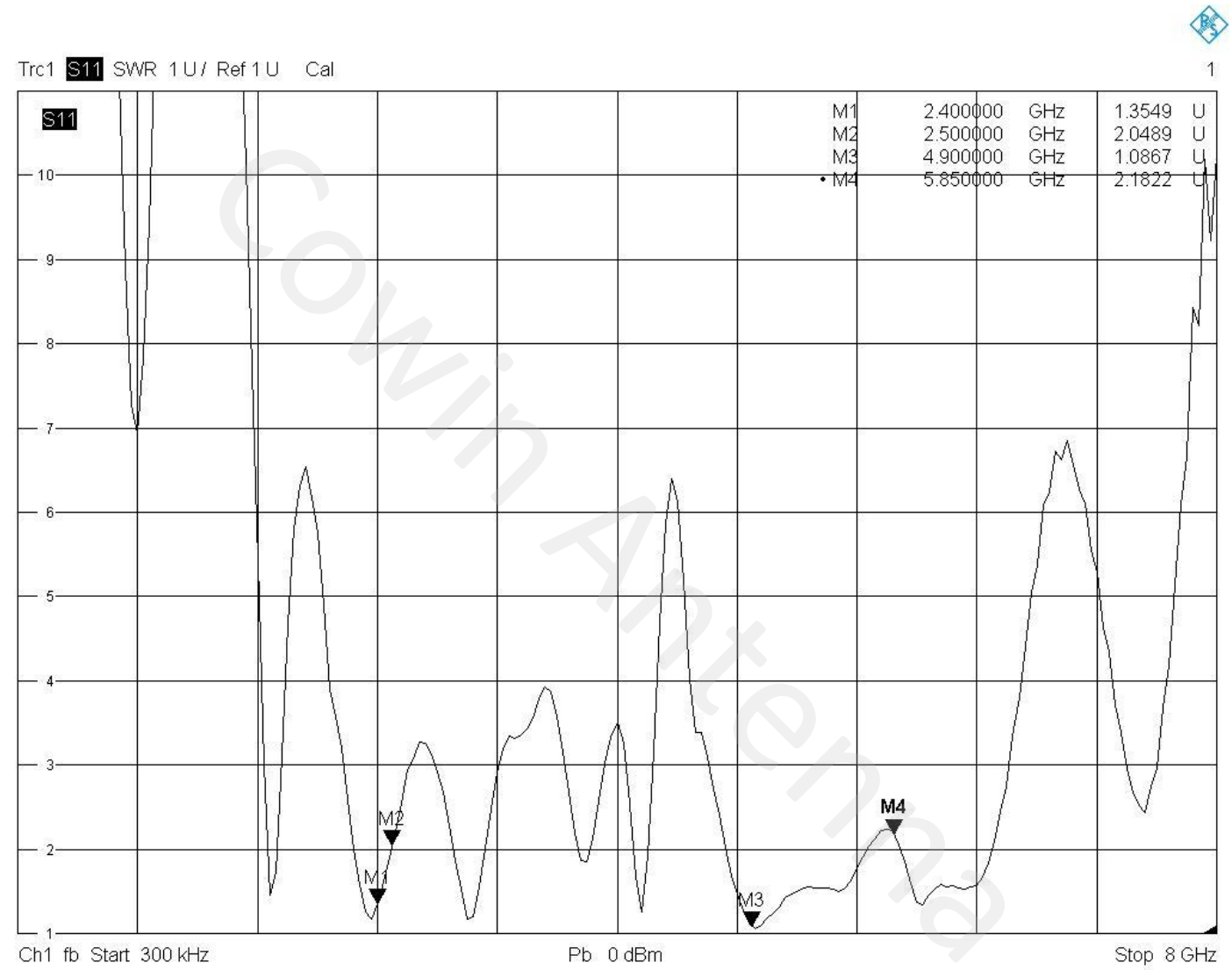
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

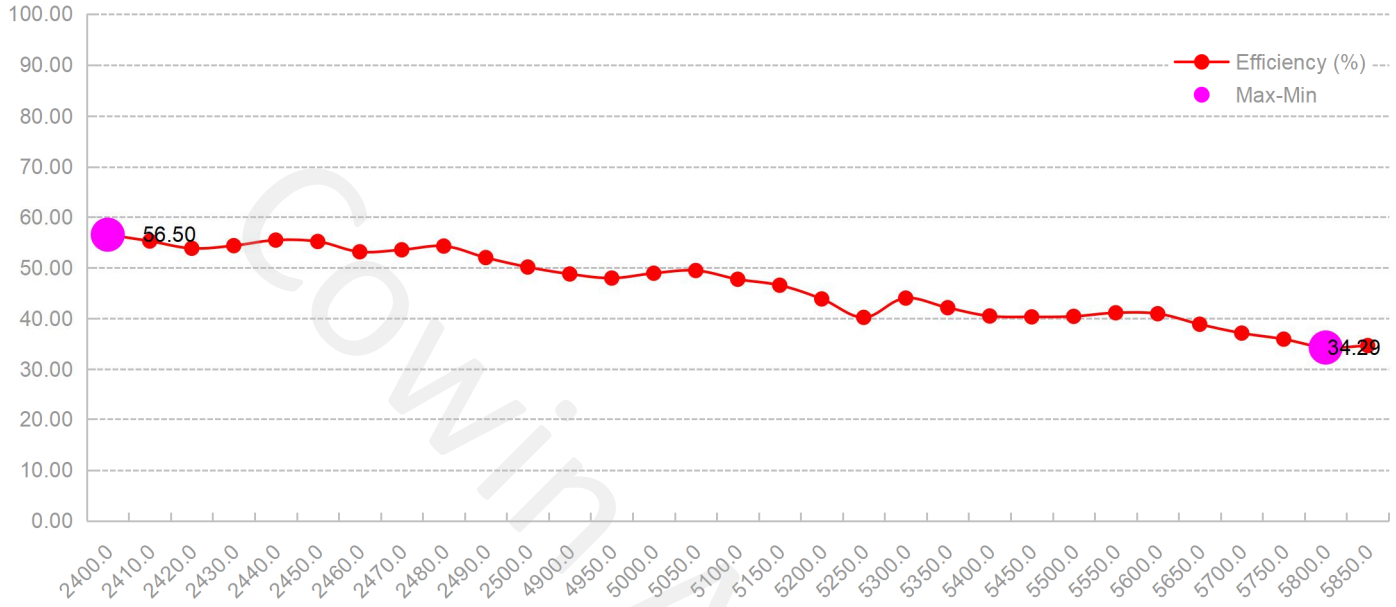
The comprehensive tester is Agilent cmv500



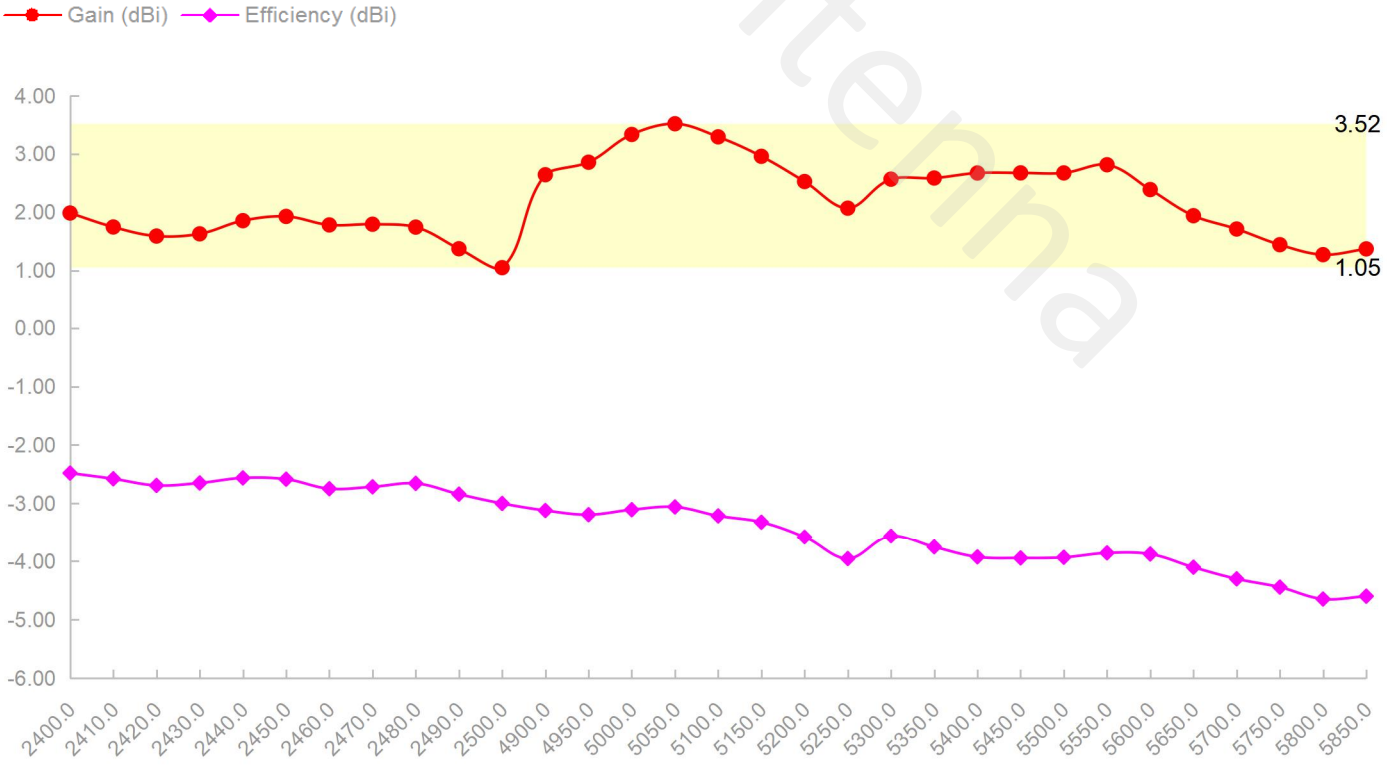
4.1 VSWR



4.2 Efficiency



4.3 Peak gain



4.4 3D&2D Radiation Patterns