CW-WZ-0185

4G LTE External Antenna

Key Features

Frequency: 698-960/1710-2700MHz

SMA Male Connector

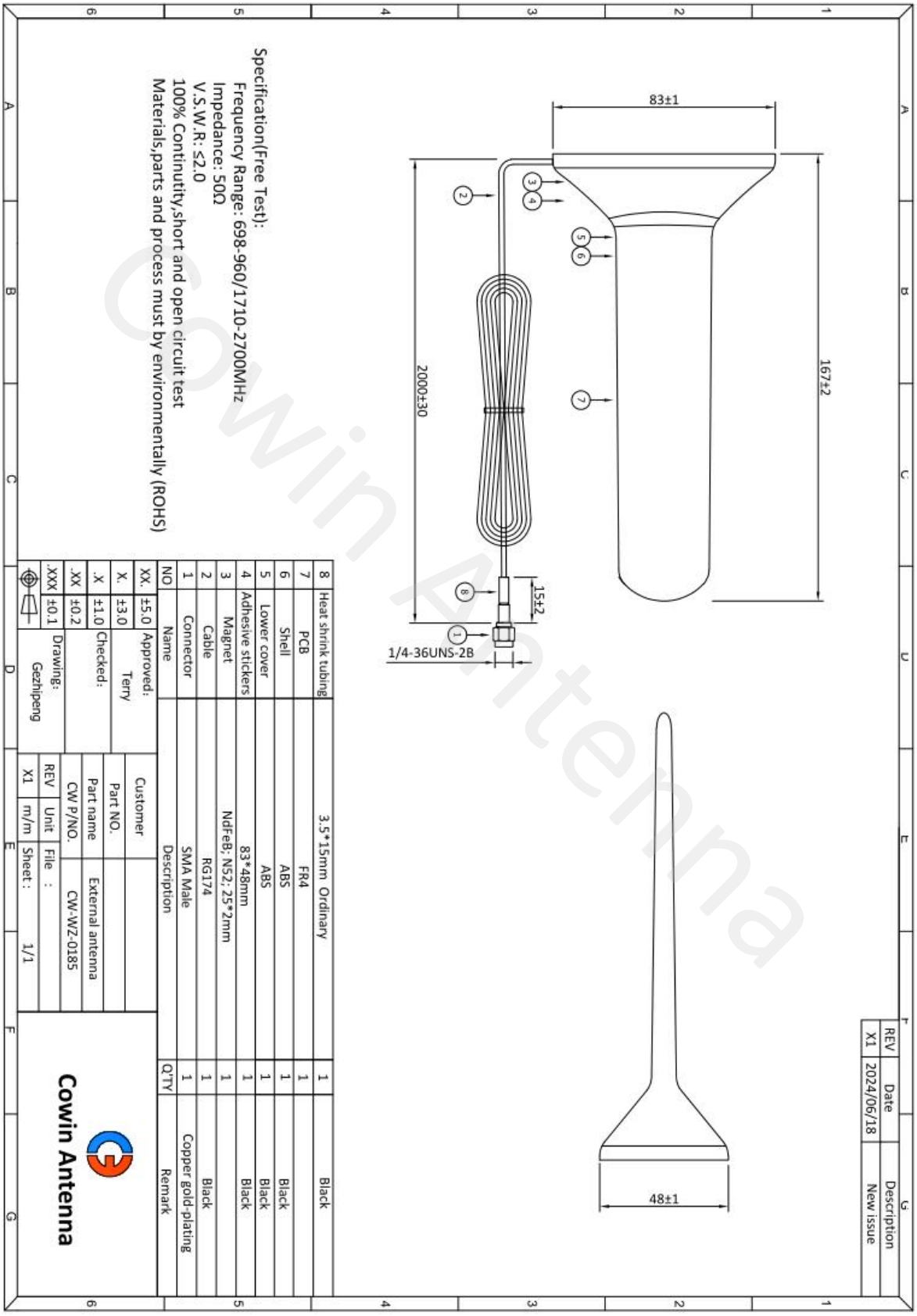
Dimensions: 167*83mm

1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	698-960/1710-2700
VSWR	≤2.0
Efficiency (%)	47.12/50.22
Peak Gain (dBi)	0.8/2.2
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	SMA Male

2. Material and environmental characteristics

External structure	ABS
Inner structure	PCB
Cable Type	RG174
Connector Type	SMA Male
Dimensions (mm)	167*83mm
Antenna color	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS



4. Antenna test parameters

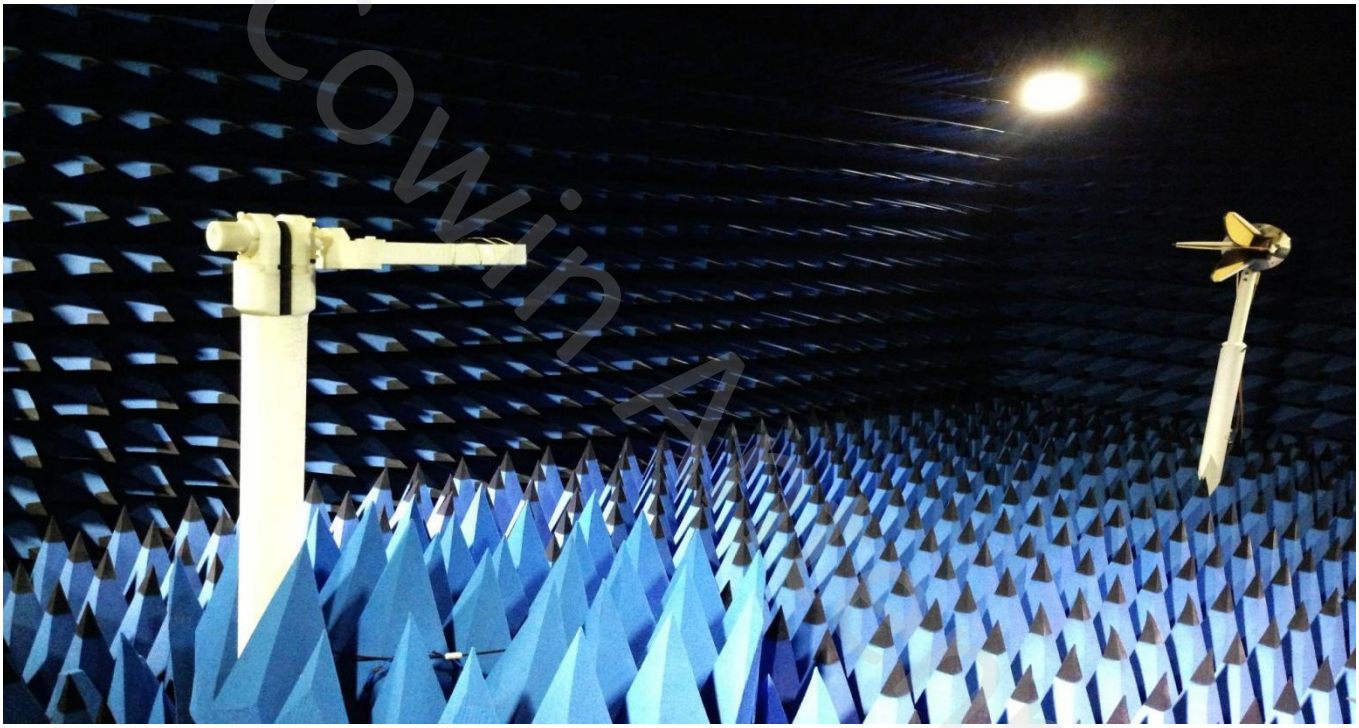
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

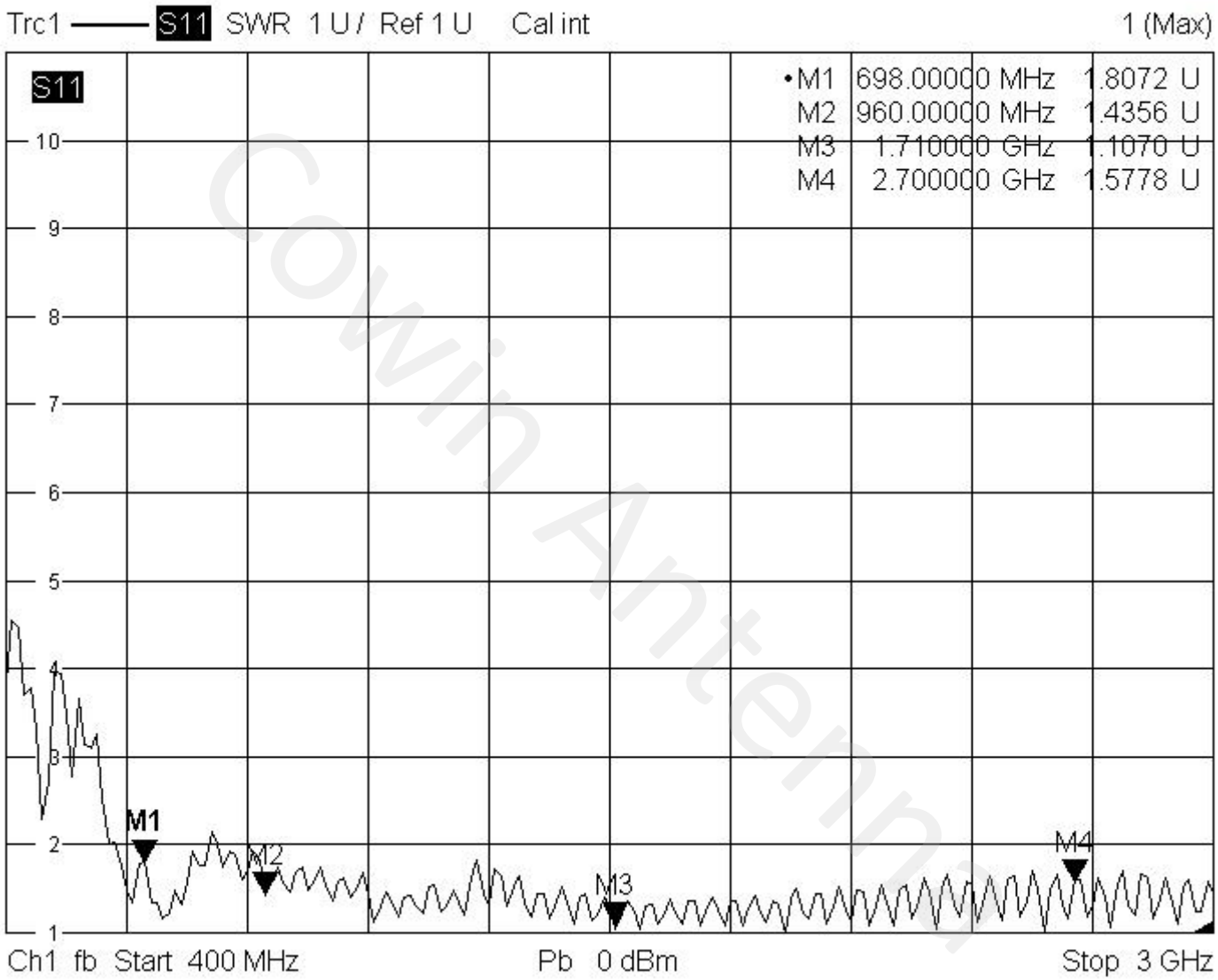
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

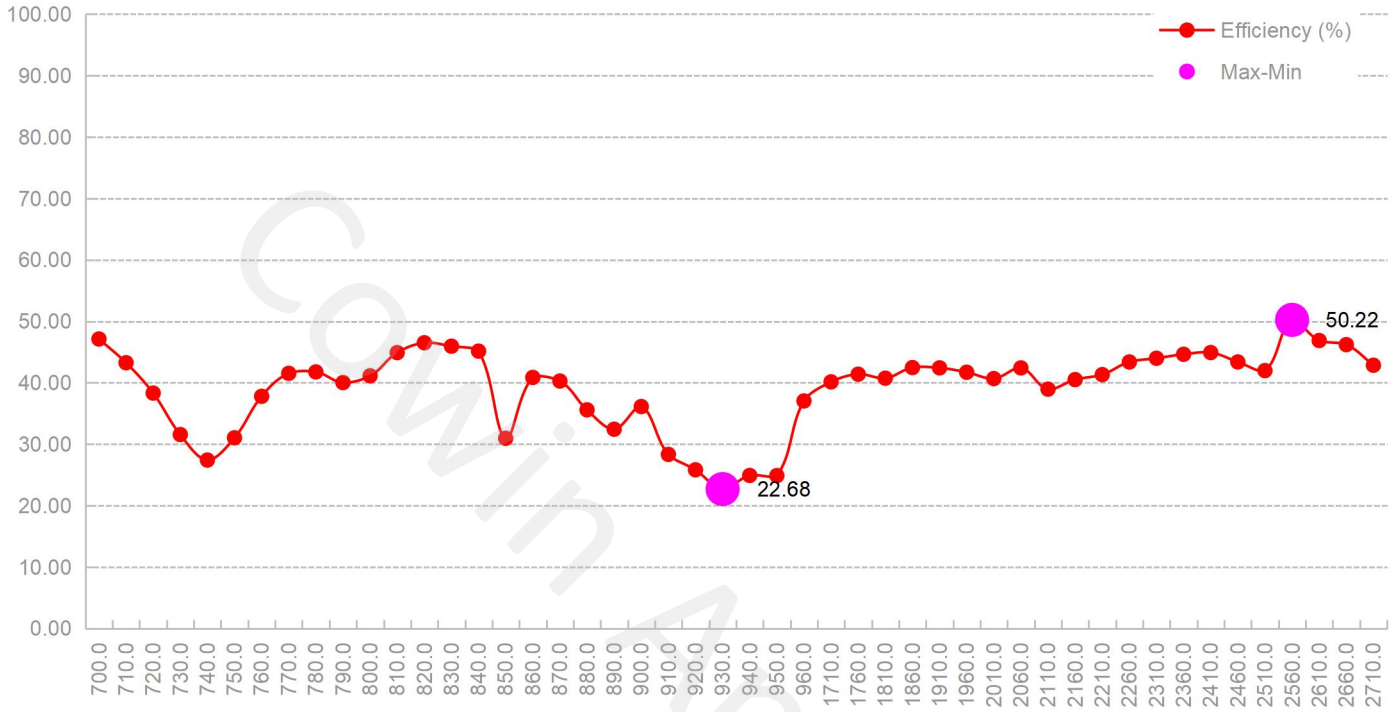
The comprehensive tester is Agilent cmv500



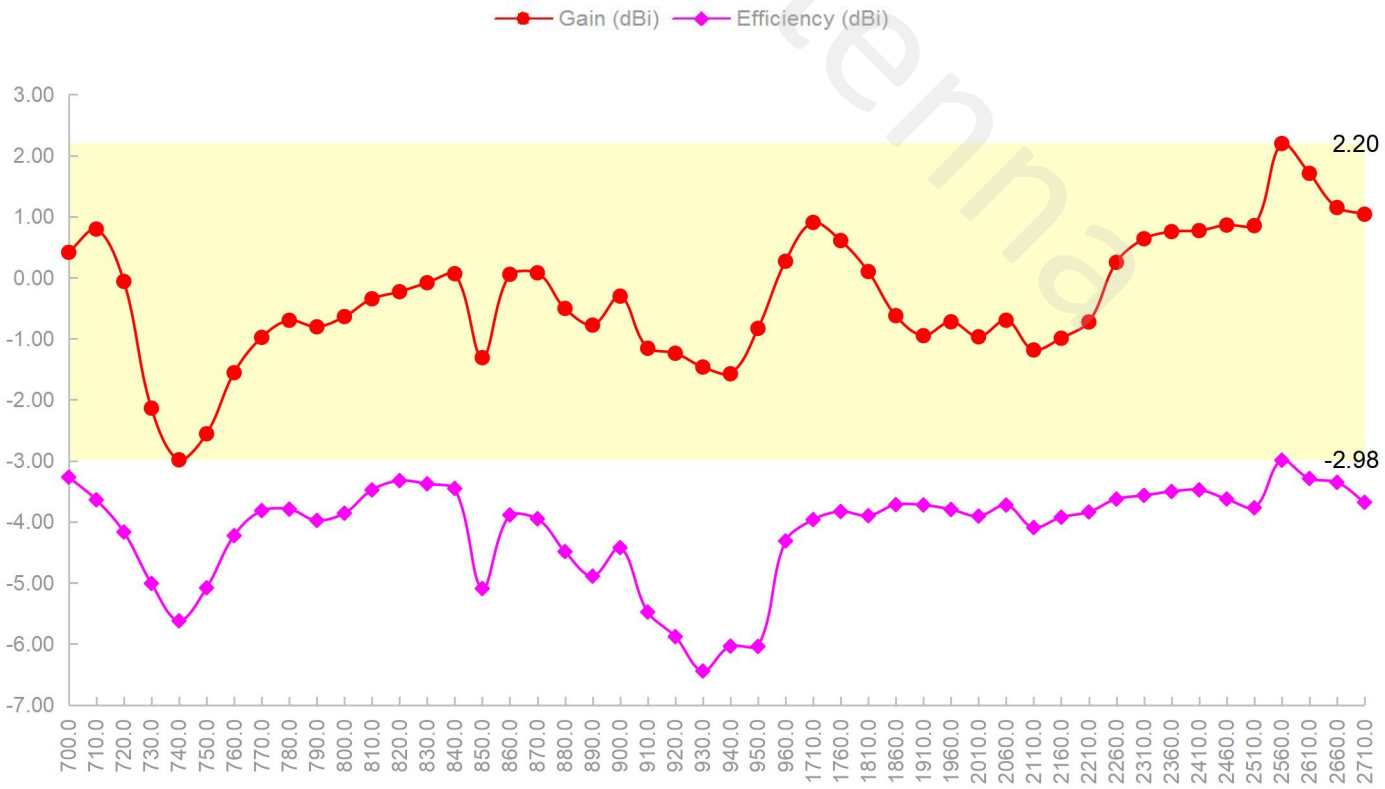
4.1 VSWR



4.2 Efficiency



4.3 Peak gain



4.4 Data summary

Frequency (MHz)	Gain (dBi)	Efficiency (%)
700.0	0.41	47.12
710.0	0.80	43.25
720.0	-0.06	38.31
730.0	-2.14	31.56
740.0	-2.98	27.40
750.0	-2.56	31.04
760.0	-1.56	37.78
770.0	-0.98	41.53
780.0	-0.70	41.75
790.0	-0.81	40.02
800.0	-0.64	41.12
810.0	-0.35	44.90
820.0	-0.23	46.50
830.0	-0.08	45.94
840.0	0.06	45.14
850.0	-1.31	30.95
860.0	0.05	40.86
870.0	0.08	40.27
880.0	-0.50	35.58
890.0	-0.78	32.43
900.0	-0.30	36.11
910.0	-1.16	28.32
920.0	-1.24	25.82
930.0	-1.47	22.68
940.0	-1.58	24.90

950.0	-0.83	24.88
960.0	0.27	37.03
1710.0	0.90	40.14
1760.0	0.61	41.39
1810.0	0.10	40.74
1860.0	-0.62	42.46
1910.0	-0.95	42.42
1960.0	-0.72	41.70
2010.0	-0.97	40.67
2060.0	-0.70	42.41
2110.0	-1.19	38.95
2160.0	-0.99	40.50
2210.0	-0.73	41.32
2260.0	0.25	43.38
2310.0	0.64	43.98
2360.0	0.75	44.63
2410.0	0.77	44.91
2460.0	0.86	43.38
2510.0	0.85	41.97
2560.0	2.20	50.22
2610.0	1.71	46.87
2660.0	1.15	46.19
2710.0	1.04	42.84

4.5 3D&2D Radiation Patterns