Antenna Specification

Manufacture：ShenZhen Aiqc Technology Co.,Ltd

Product Name：A103 Antenna

Antenna Type：PCB

Test Date：2024.03.05

Tested by：Nan Chen

Approved by：Yvonne

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1.General Description

Manufacturer	ShenZhen Aiqc Technology Co.,Ltd
Address	
Test Location	
Product Name	A103 Antenna
Product model	A103
Antenna Type	PCB Antenna
Test Items	Gain; Efficiency; Radiation Pattern
Test Frequency	2400-2500MHz
Test Standard	ANSI/IEEE Std 149-1979

2.Test Configurations

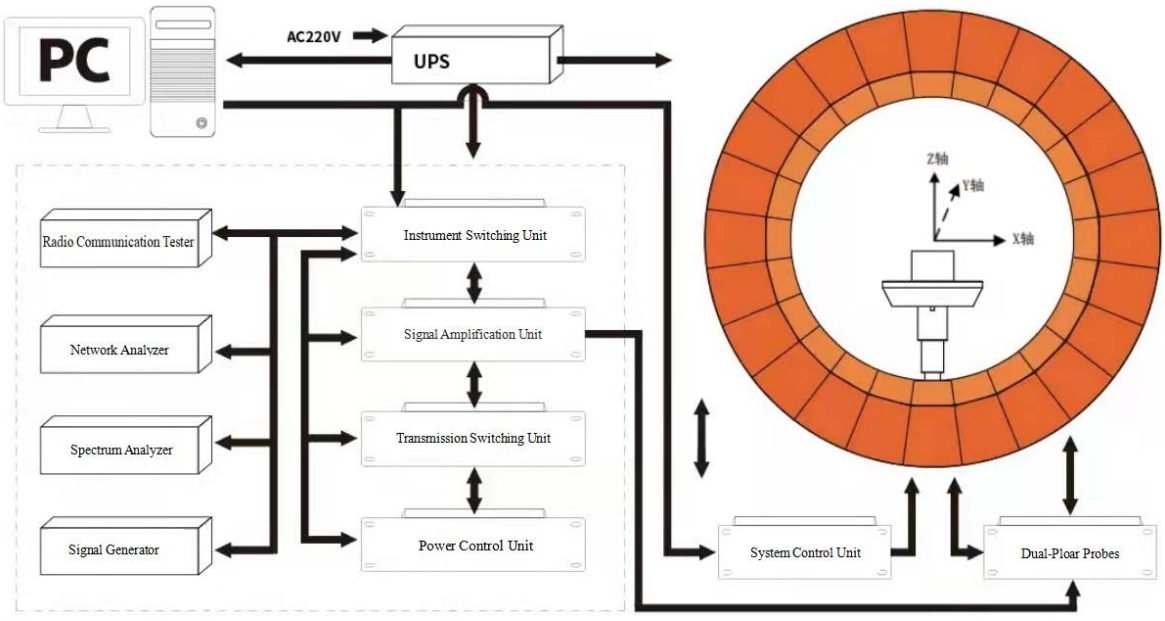
2.1 Test Environment

Temperature (℃)	25
Humidity (%RH)	60
Atmospheric Pressure (kPa)	100.5

2.2 Test Equipment

Test System	TEM 24 Multi-probe Microwave Chamber
Test Instrument	Agilent E5071B

2.3 Test Principle



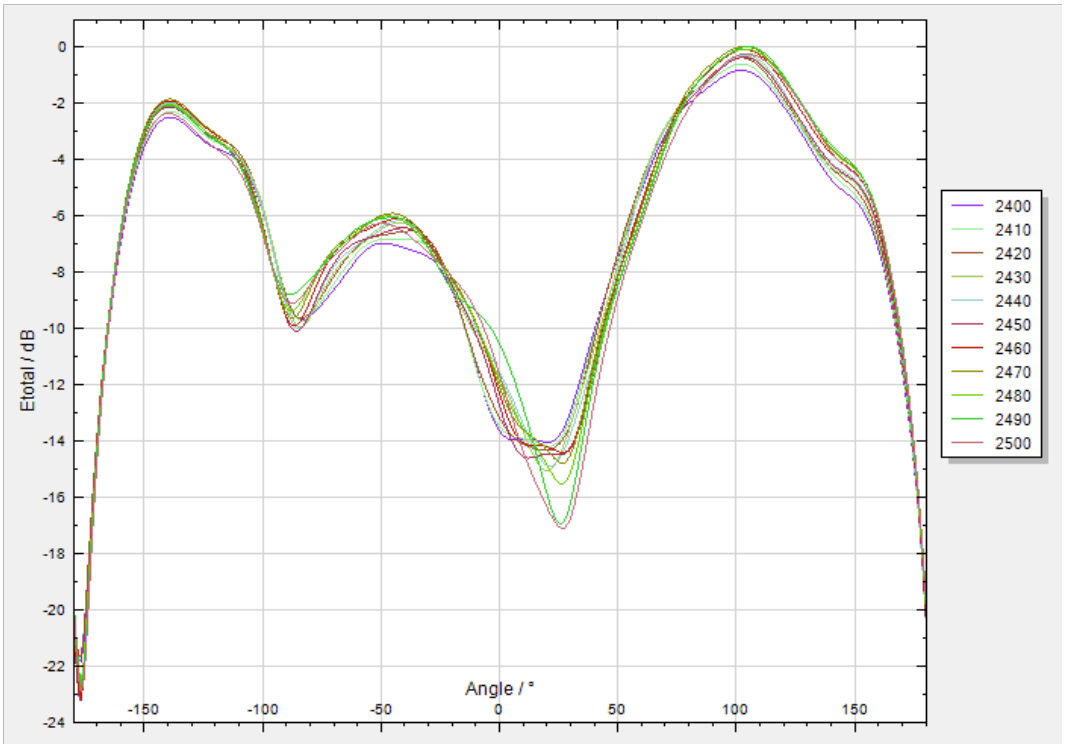
3.Test Results

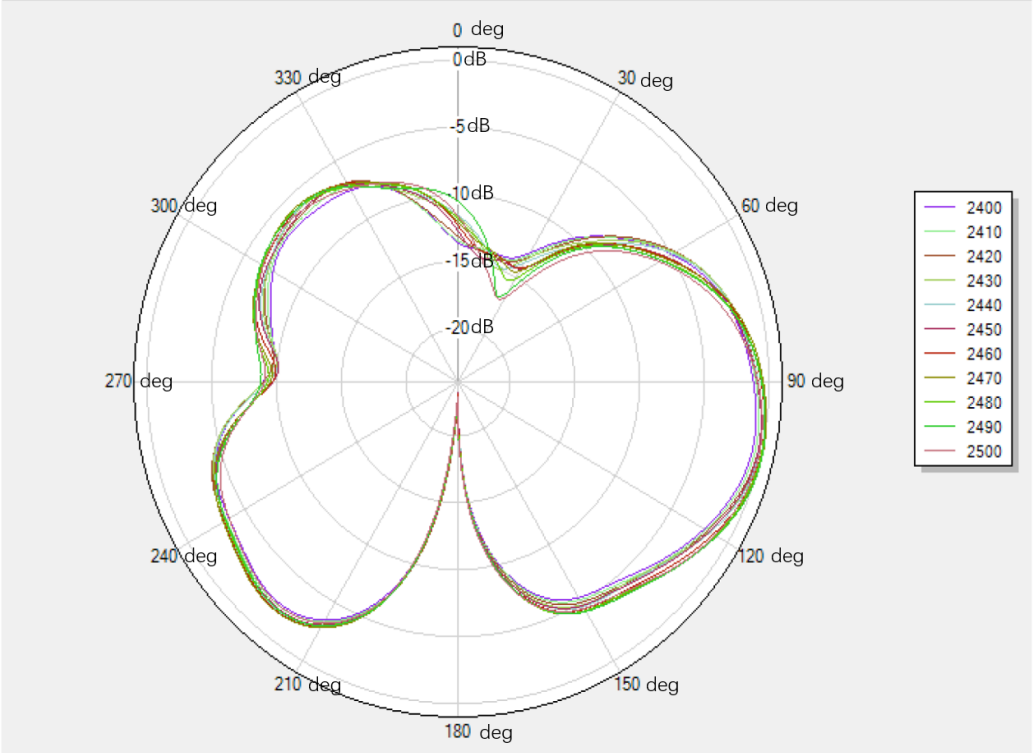
3.1 Gain and Efficiency

Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	0.46	44.36
2410	0.71	45.71
2420	0.92	45.92
2430	0.91	45.6
2440	0.95	45.6
2450	0.93	45.29
2460	1.27	46.45
2470	1.37	46.88
2480	1.25	47.21
2490	1.24	46.67
2500	1.05	44.87

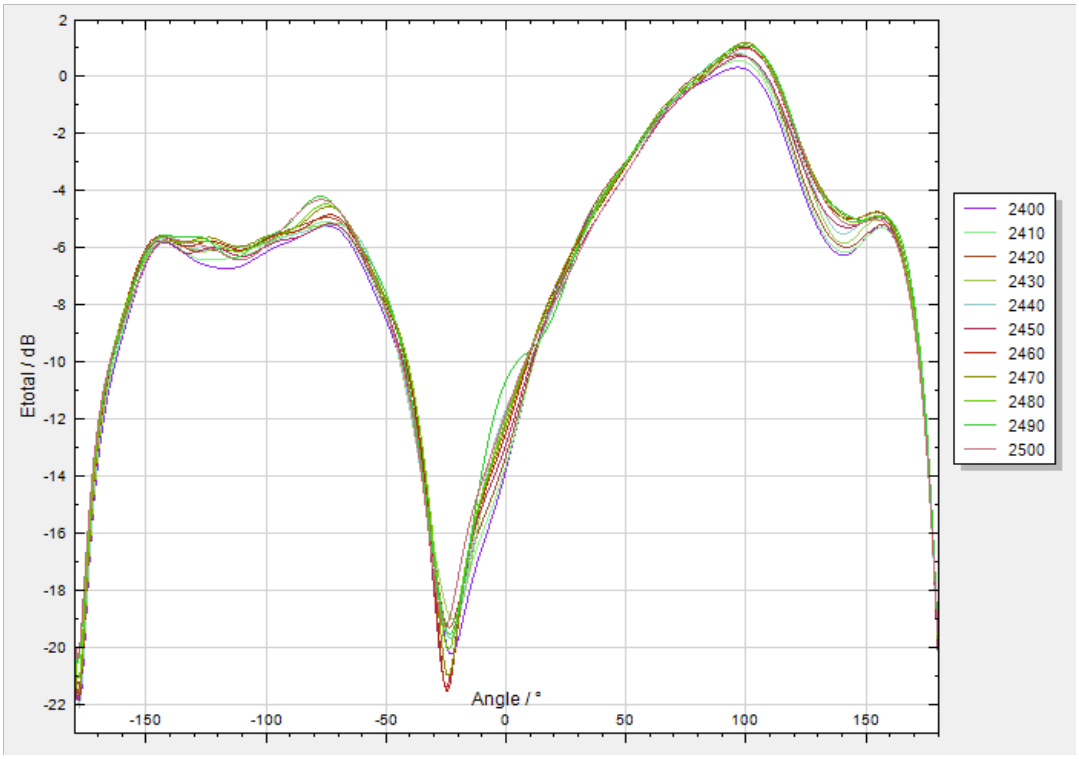
3.2 Radiation Pattern

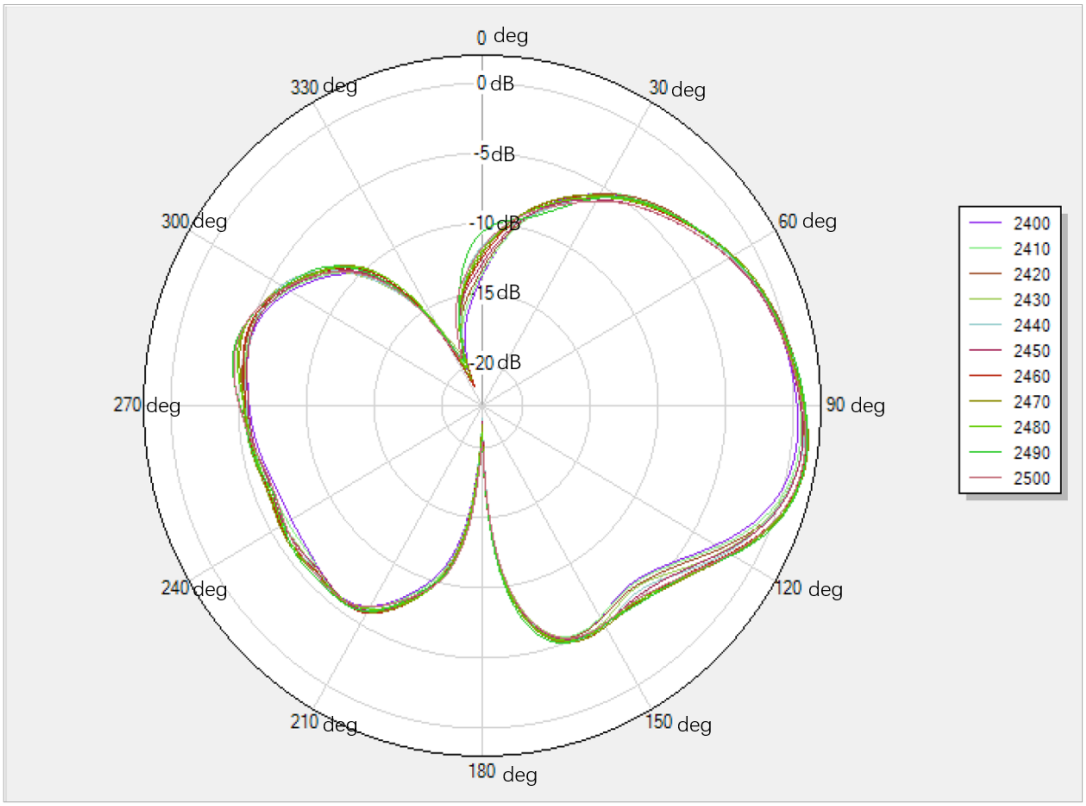
Phi 0



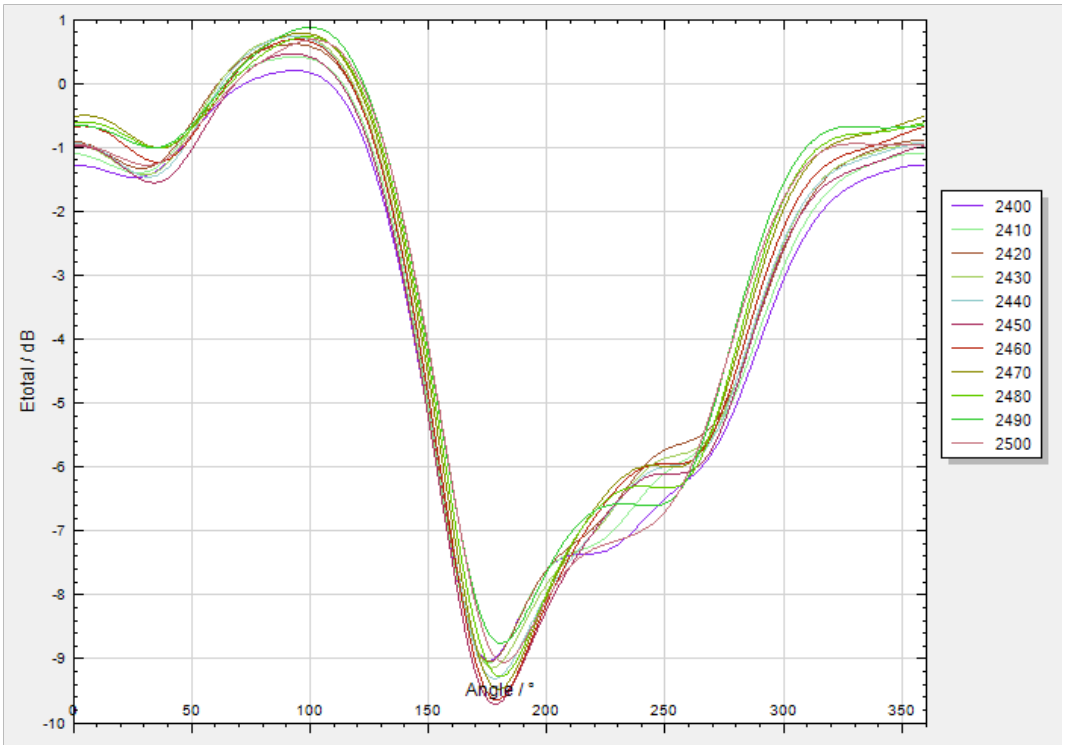


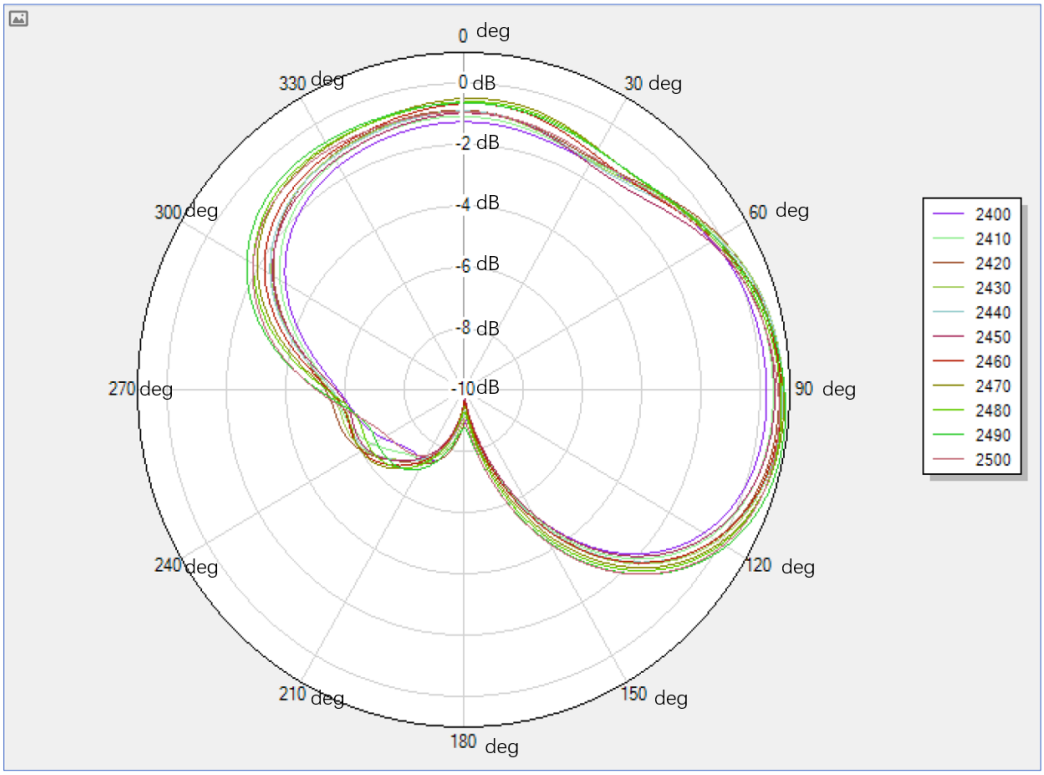
Phi 90


Etotal / dB
Angle / °
2400
2410
2420
2430
2440
2450
2460
2470
2480
2490
2500

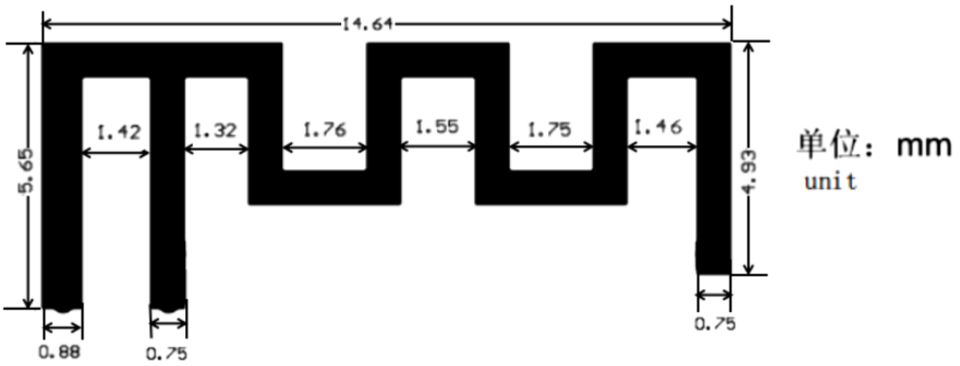

0 deg
30 deg
60 deg
90 deg
120 deg
150 deg
180 deg
210 deg
240 deg
270 deg
300 deg
330 deg
0 dB
-5 dB
-10 dB
-15 dB
-20 dB
2400
2410
2420
2430
2440
2450
2460
2470
2480
2490
2500

Theta 90

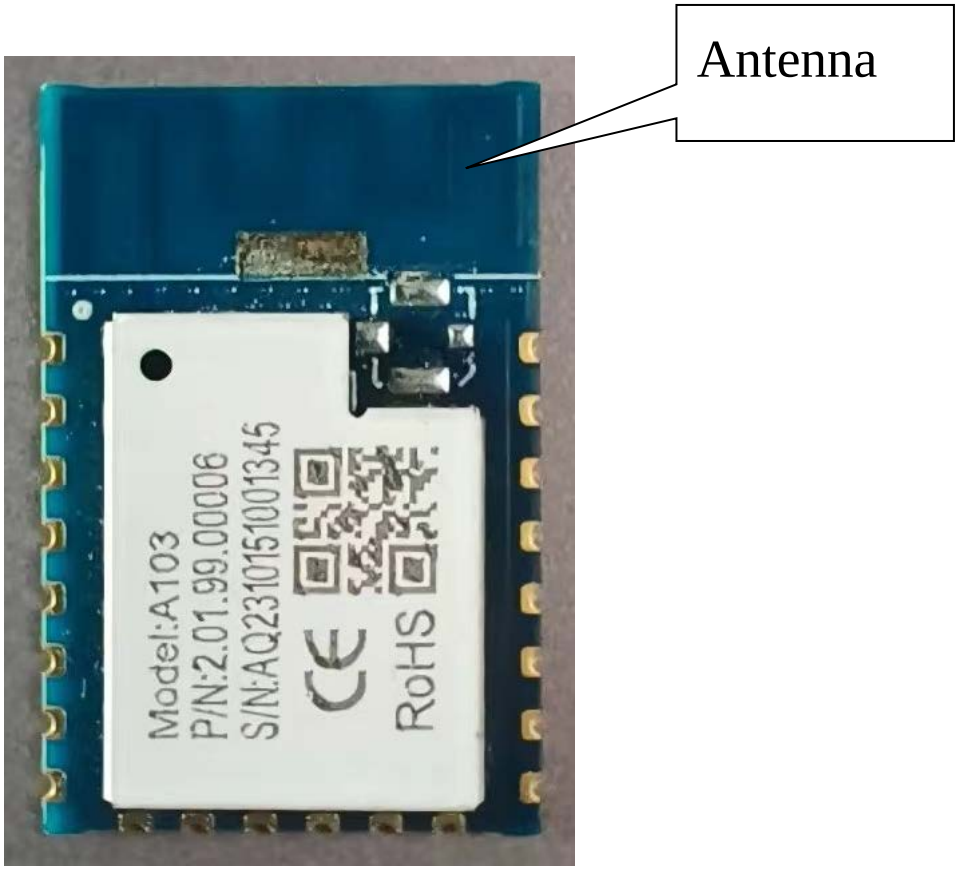
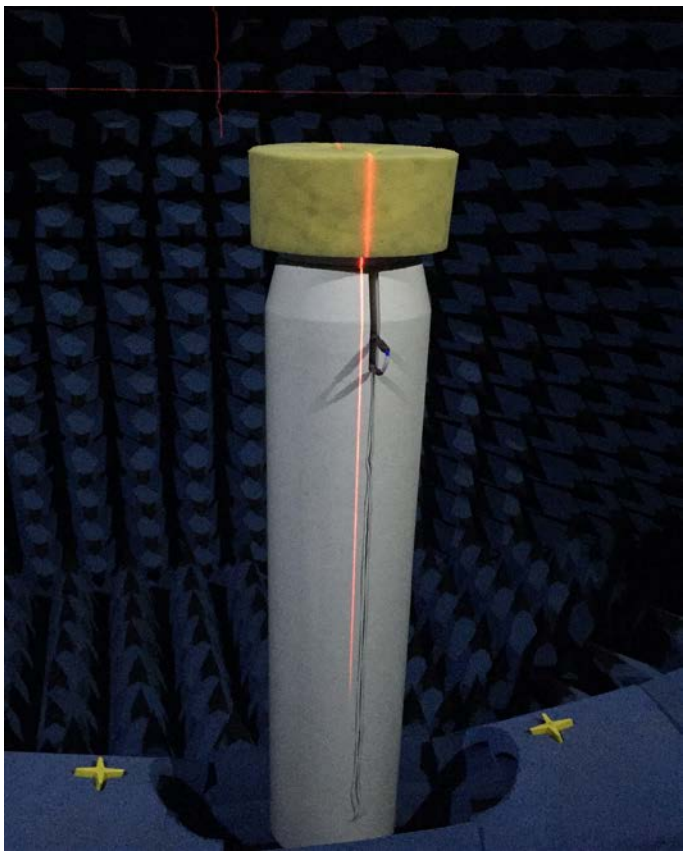

Etotal / dB
Angle / °
1
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
0
50
100
150
200
250
300
350
2400
2410
2420
2430
2440
2450
2460
2470
2480
2490
2500


0 deg
30 deg
60 deg
90 deg
120 deg
150 deg
180 deg
210 deg
240 deg
270 deg
300 deg
330 deg
0 dB
-2 dB
-4 dB
-6 dB
-8 dB
-10dB
2400
2410
2420
2430
2440
2450
2460
2470
2480
2490
2500

4.Antenna Dimensions



5.EUT Photo



6.Test Setup Photo