

OTA TEST REPORT

Applicant Shenzhen General Test System Co., Ltd
Product RayZone1800
Issue Date June 5, 2026

Shenzhen Fu Bang Wireless Technology Co., Ltd. tested the above equipment in accordance with the requirements in **ANTI/IEEE Std 149-2008**. The test results show that the equipment tested is capable of demonstrating compliance with the Requirements as documented in this report.

Prepared by: Lunkang Yan
Approved by: Xiaoying Hu

Shenzhen Fu Bang Wireless Technology Co., Ltd.

Room 302, lianjian Industry Part, Huarong road, Longhua District, Shenzhen, P.R. China

1. Test Laboratory

1.1 Notes of the Test report

This report shall not be reproduced in full or partial. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of applicable standards stated above.

1.2 Test facility

GTS1800 Microwave Anechoic Chamber : testing frequency ranges from 600MHz to 6GHz .

1.3 Testing Location

Company: Shenzhen Fu Bang Wireless Technology Co., Ltd

Address: Room 302, Lianjian Industry Part, Huarong road, Longhua District,
Shenzhen, P.R. China

Contact: lunkang Yan

Telephone: 13760182610

E-mail: 646363118@qq.com

1.4 Laboratory Environment

Temperature	Min.= 19℃, Max.=25℃	
Relative humidity	Min.=40%, Max.=72%	
Shield effect	0.6-7GHz	>100dB
Ground resistance	<0.5 Ω	

2. General Description of Equipment under Test

2.1 Applicant and Manufacturer information

Applicant Name	Shenzhen General Test System Co., Ltd
Applicant address	Building C-A7 Suite 805,2190 Liuxian Avenue, Nanshan District, Shenzhen, P.R. China
Manufacturer Name	Shenzhen General Test System Co., Ltd
Manufacturer address	Building C-A7 Suite 805,2190 Liuxian Avenue, Nanshan District, Shenzhen, P.R. China

2.2 General information

EUT Description	
Product Name	RayZone1800
Model	GTS-ANT D-H
HW Version	RayZone1800 V1.0
SW Version	MaxSign 100
Antenna Type	PCB Antenna
Antenna Manufacturer	Shenzhen General Test System Co., Ltd
Test Frequency	600MHz-5.8GHz

2.3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test Method: **ANSI/IEEE Std 149-2008**

3. Test Conditions

3.1 Test Configuration

The method is used to measure the antenna 3D GAIN of EUT in OTA qualified anechoic chamber. Equipment Under Test (EUT) geometry centre vertical projection at the centre of platform, the distance from EUT to measurement antenna is 1m.

3.2 Test Measurement

Spherical coordinate system

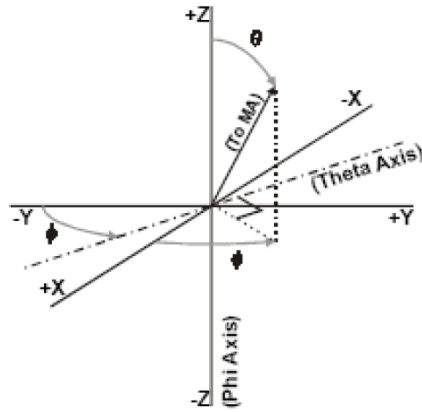
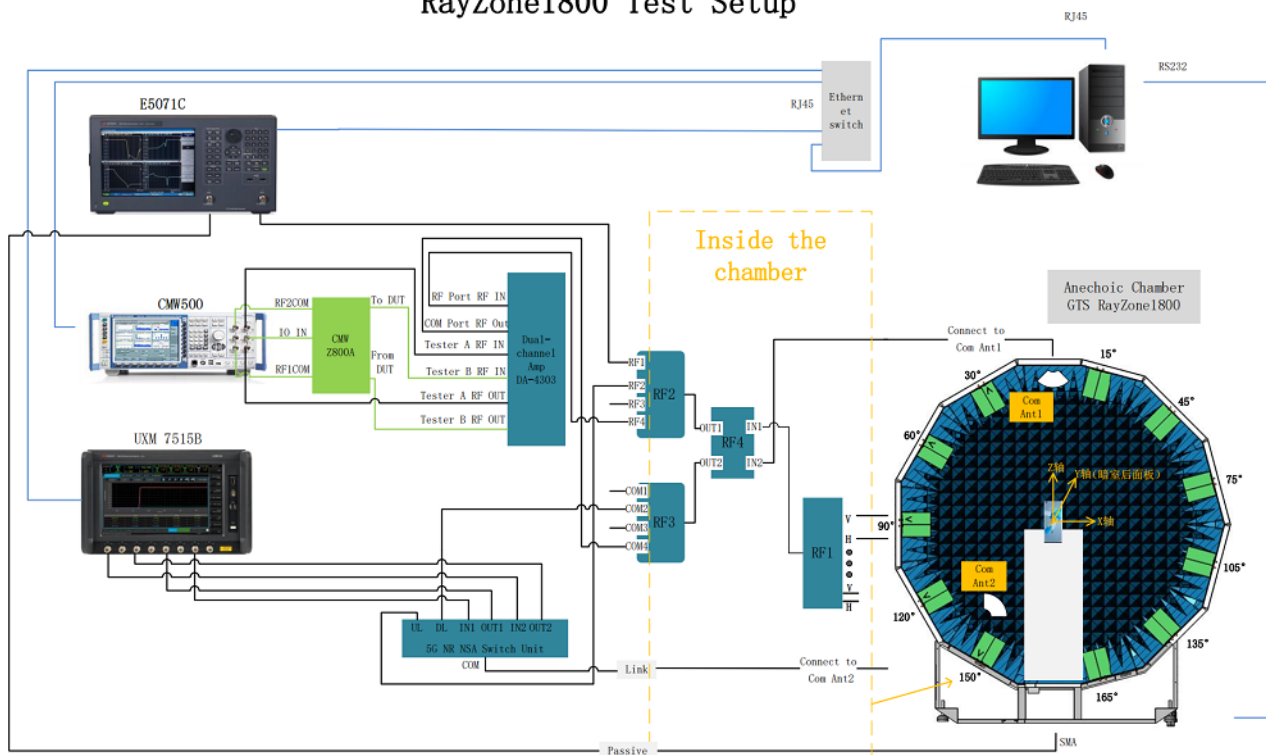


Figure 1 Test coordinate system

Note: Theta is from 0-180degree. Phi is from EUT and record the Date, the step of rotation is 15 degree.

Test Setup

RayZone1800 Test Setup



4. Test Results

4.1 Gain and Efficiency

Main Antenna

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OTA Test Report

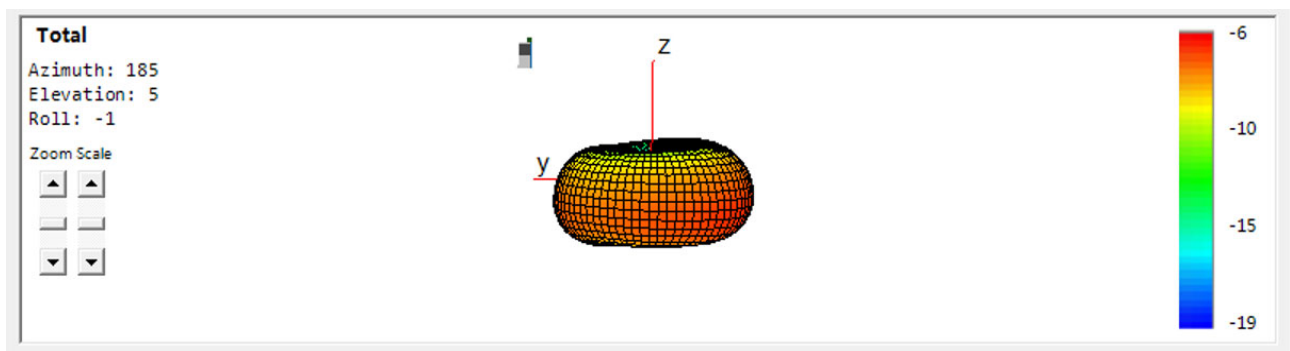
Model	Test State	Frequency (MHz)	Efficiency (%)	Gain (dBi)	Frequency (MHz)	Efficiency (%)	Gain (dBi)	Note
	Free Space	690	14.4	-6.4	1820	32.6	-0.5	
		700	16.0	-4.5	1840	34.7	-0.4	
		710	16.9	-4.3	1860	36.8	-0.3	
		720	17.4	-4.3	1880	38.6	-0.2	
		730	17.6	-4.6	1900	40.4	-0.1	
		740	17.5	-4.7	1920	42.5	-0.1	
		750	17.5	-4.7	1940	43.3	-0.1	
		760	16.3	-5.1	1960	43.1	-0.1	
		770	15.5	-5.3	1980	39.4	-0.1	
		780	15.0	-5.3	2000	35.7	-0.4	
		790	14.3	-5.5	2020	33.0	-0.5	
		800	13.2	-5.8	2040	30.5	-0.8	
		810	15.9	-4.6	2060	29.4	-0.9	
		820	18.1	-4.2	2080	29.5	-0.9	
		830	19.4	-3.6	2100	30.1	-0.9	
		840	20.2	-3.4	2120	30.1	-0.9	
		850	20.4	-3.3	2140	30.2	-0.9	
		860	19.3	-3.5	2160	29.1	-1.0	
		870	17.2	-4.0	2180	27.4	-1.2	
		880	14.3	-4.5	2200	26.1	-1.3	
		890	11.7	-5.3	2300	25.4	-1.4	
		900	15.9	-4.6	2320	24.5	-1.4	
		910	18.4	-3.2	2340	26.3	-1.2	
		920	21.9	-2.3	2360	27.0	-1.2	
		930	24.8	-1.8	2380	25.0	-1.5	
		940	26.2	-1.8	2400	25.5	-1.5	
		950	24.1	-2.3	2420	28.8	-1.1	
		960	19.4	-3.4	2440	28.0	-1.1	
					2460	27.5	-1.2	
					2480	27.7	-1.2	
					2500	28.4	-1.1	
					2520	29.3	-1.0	
					2540	30.4	-0.9	
					2560	30.9	-0.9	
					2580	31.1	-0.8	
		1700	19.3	-2.1	2600	32.6	-0.7	
		1720	21.2	-2.0	2620	32.1	-0.7	
		1740	24.1	-1.6	2640	31.5	-0.8	
		1760	26.4	-1.2	2660	31.9	-0.8	
		1780	28.0	-0.9	2680	32.6	-0.7	
		1800	29.8	-0.8	2700	33.0	-0.6	

Model	Test State	Frequency (MHz)	Efficiency (%)	Gain (dBi)	Frequency (MHz)	Efficiency (%)	Gain (dBi)	Note
	Free Space	1550	24.3	-2.9				
		1560	25.3	-2.7				
		1570	25.7	-2.6				
		1580	25.7	-2.5				
		1590	26.1	-2.5				
		1600	26.5	-2.3				
		2400	30.1	-1.6				
		2410	30.2	-2.2				
		2420	30.6	-1.5				
		2430	31.7	-2.1				
		2440	32.6	-2.9				
		2450	33.3	-2.6				
		2460	33.2	-2.4				
		2470	33.0	-2.3				
		2480	33.6	-2.2				
		2490	34.0	-2.1				
		2500	33.7	-2.0				

5. Equipment List

Type of Equipment	Manufacture	Model Number
Network Analyzer	Key sight	E5071C
Switch control System	GTS	RayZone1800
Software	GTS	MaxSign 100 Patten Measurement software

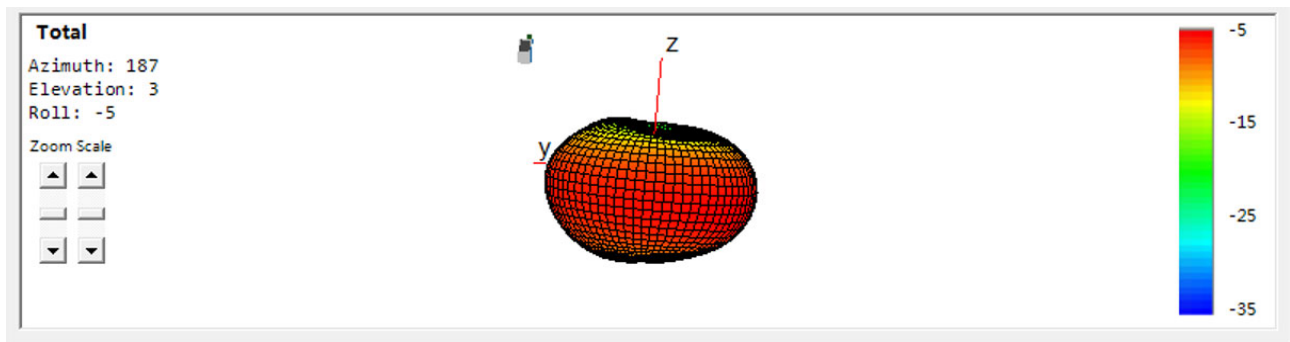
ANNEX A 3-D Patten Plots



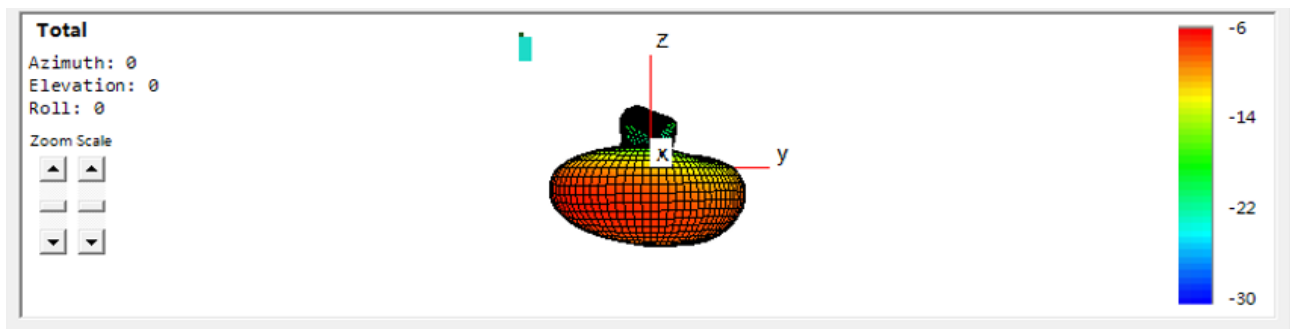
700MHz

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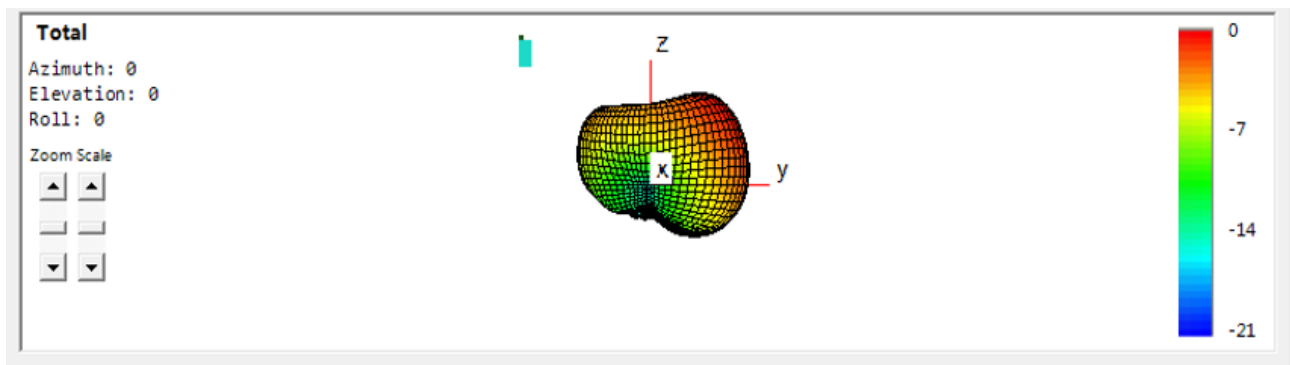
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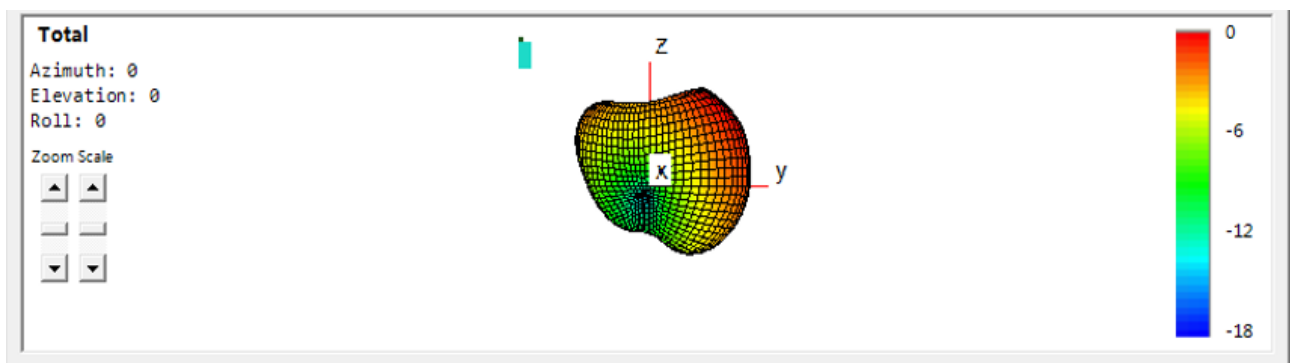
850MHz



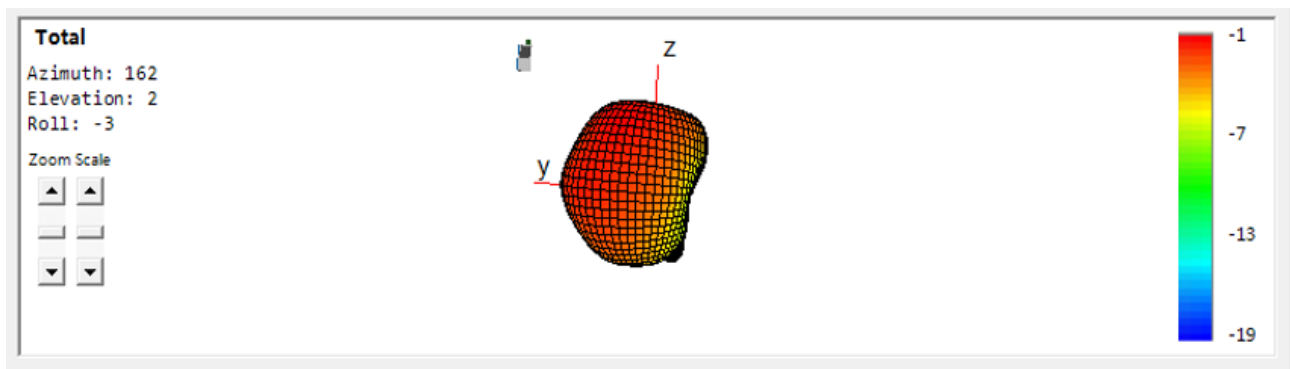
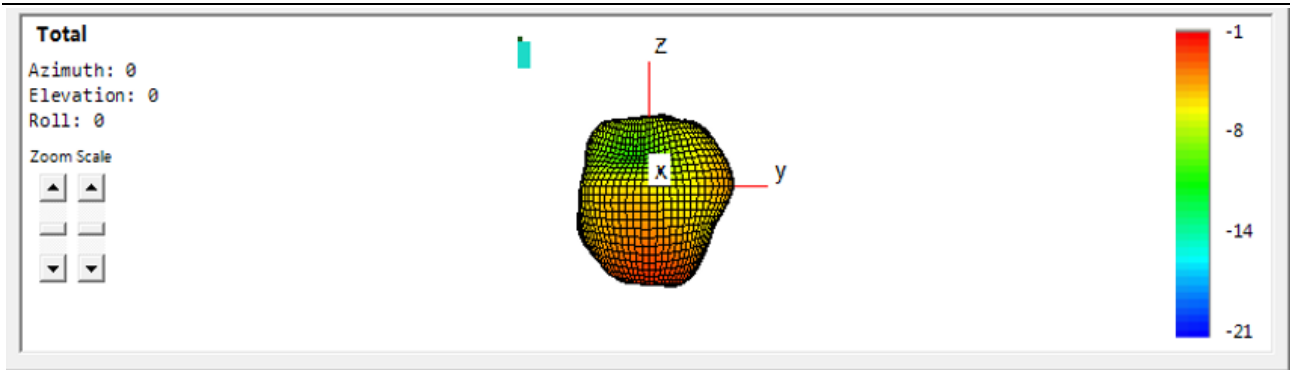
900MHz



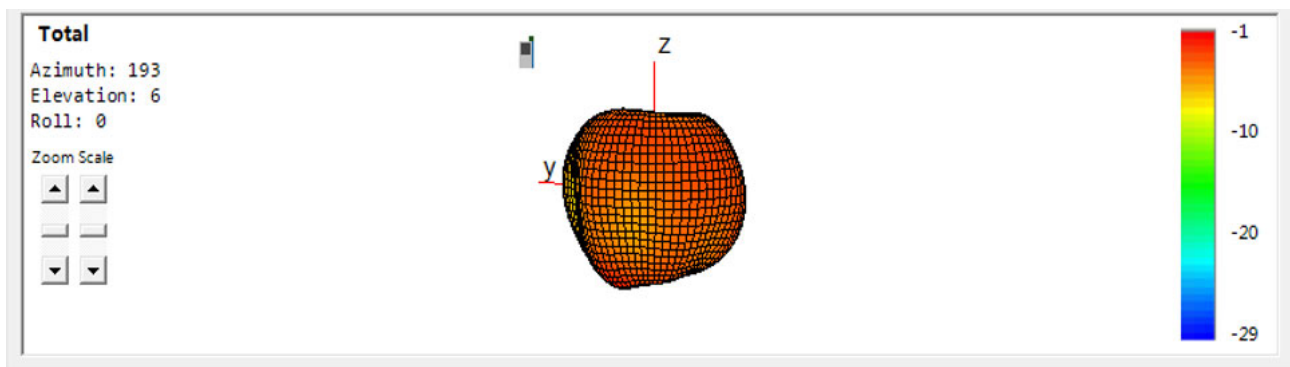
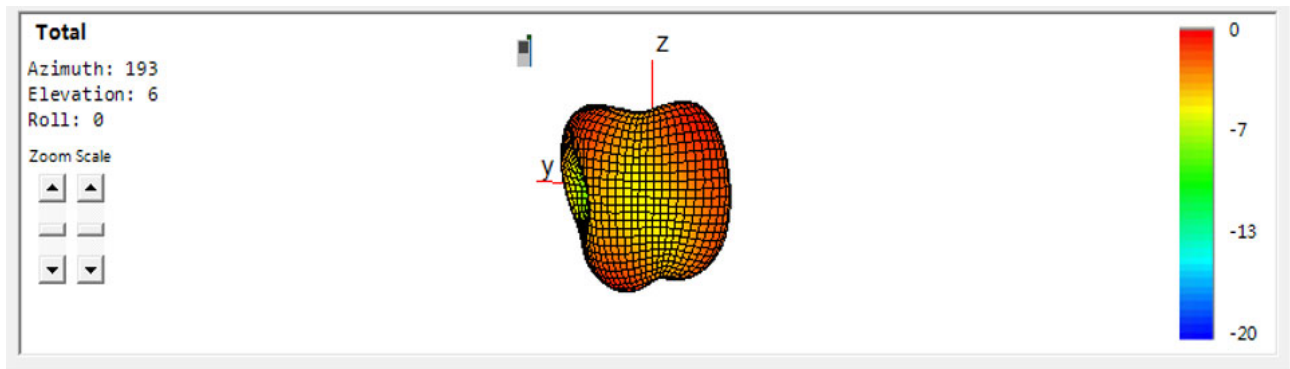
1800MHz



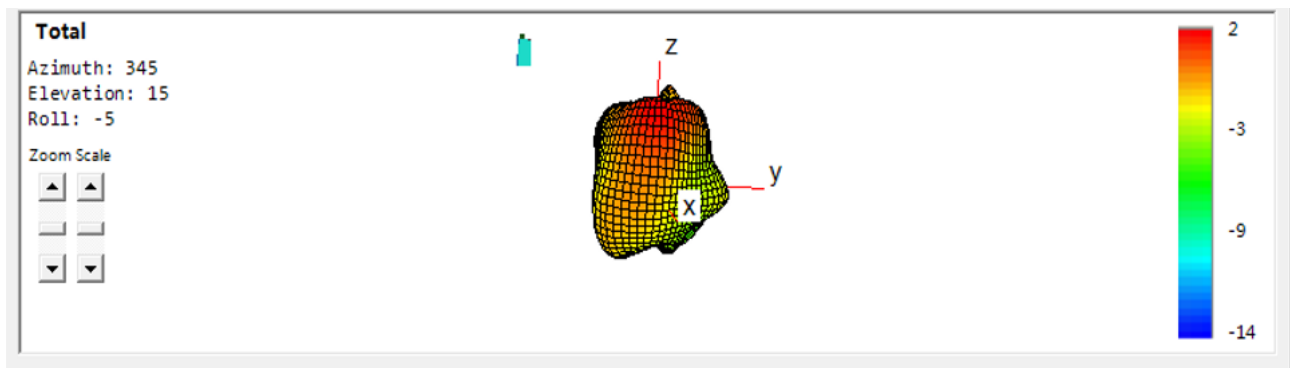
1900MHz



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2400MHz

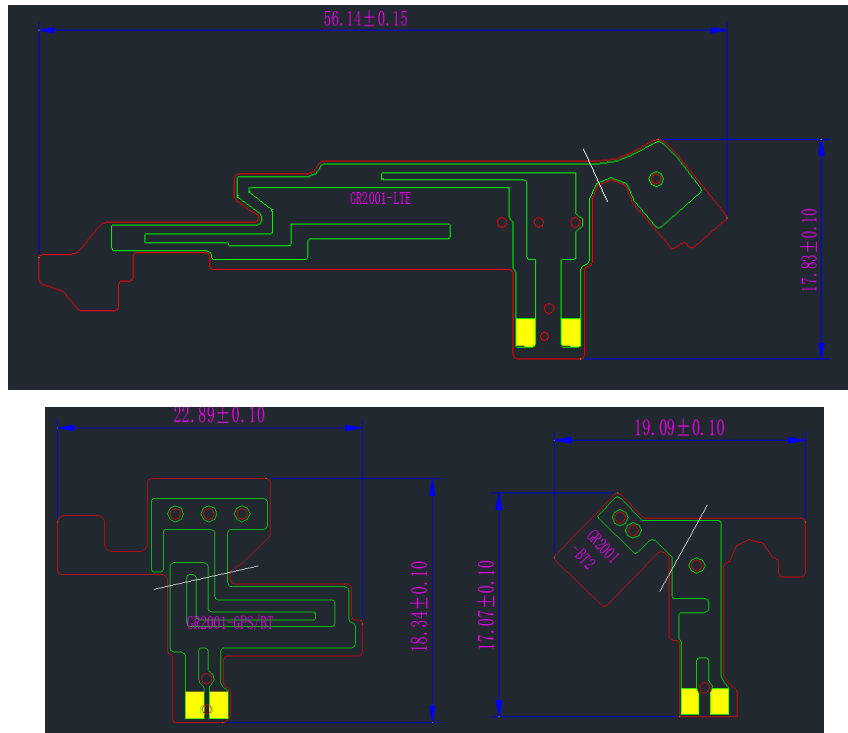


2500MHz

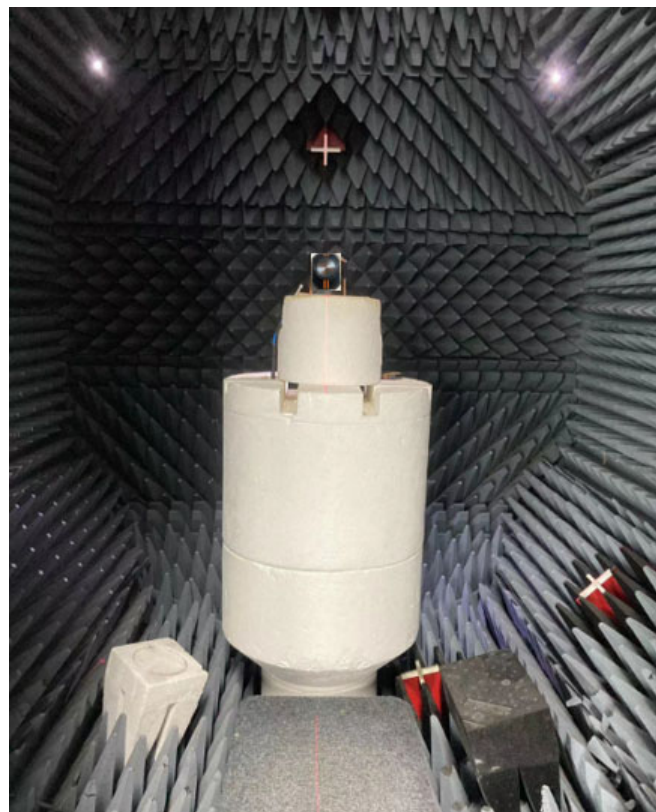
ANNEX B: The EUT Appearance and Test Configuration

B.1 EUT Appearance





B.2 Test Configuration



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