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ANTENNA PASSIVE TEST REPORT

Application No. SZOA2603000044AT
Applicant CoreStar Co., Ltd.,
Manufacturer CoreStar Co., Ltd.,
Product Name BLE Low Energy Module
Model No. CS63076
Standards ANSI/IEEE Std 149-2021
Date Initial Sample(s) Received Mar. 01, 2026
Testing Start Date Mar. 03, 2026
Testing Finish Date Mar. 11, 2026
Report Issue Date Mar. 16, 2026

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Yuanyu Luo

Prepared by: Yuanyu Luo/ Test
Engineer

Ervin Li

Approved by: Ervin Li/ Technical
Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Wireless Laboratory

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Revision History

Revision	Issue Date	Description
01	Mar. 16, 2026	Initial creation of report



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1 General Information

1.1 Testing Laboratory

Test Lab	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057
Contact	Ervin Li
Tel.	+86 18823369694
Fax	+86-755-25328600
E-mail	Ervin.Li@sgs.com

1.2 Details of Applicant

Applicant's Name	CoreStar Co., Ltd.,
Applicant's Address	14F,-2,No. 218,Sec. 2, Taiwan Blvd., West Dist., Taichung City 403405,Taiwan
Contact	Daniel Lin
Tel.	04-2295-0350#601
Fax	N/A
E-mail	daniel@corestar.com.tw

1.3 Details of Manufacturer

Manufacturer's Name	CoreStar Co., Ltd.,
Manufacturer's Address	14F,-2,No. 218,Sec. 2, Taiwan Blvd., West Dist., Taichung City 403405,Taiwan
Contact	Daniel Lin
Tel.	04-2295-0350#601
Fax	N/A
E-mail	daniel@corestar.com.tw



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1.4 General Description of EUT

Device Description:	BLE Low Energy Module
Device Manufacturer:	CoreStar Co., Ltd.,
Device Model:	CS63076
Hardware Version:	N/A
Software Version:	N/A
Antenna Type:	PCB
Antenna Dimension:	9.5mm * 2.4mm * 0.5mm

1.5 Test Procedure

Testing is performed according to the **ANSI/IEEE Std 149-2021**.



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1.6 Test Specification

Identity	Document Title
ANSI/IEEE Std 149-2008	IEEE Standard Test Procedures for Antennas

1.7 Laboratory Environment

Temperature	Min. =19°C , Max. = 25°C	
Relative humidity	Min. =40% , Max. =72%	
Shield effect	0.7-6GHz	> 100dB
Ground resistance	<0.5Ω	



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2 OTA Measurements System Configuration

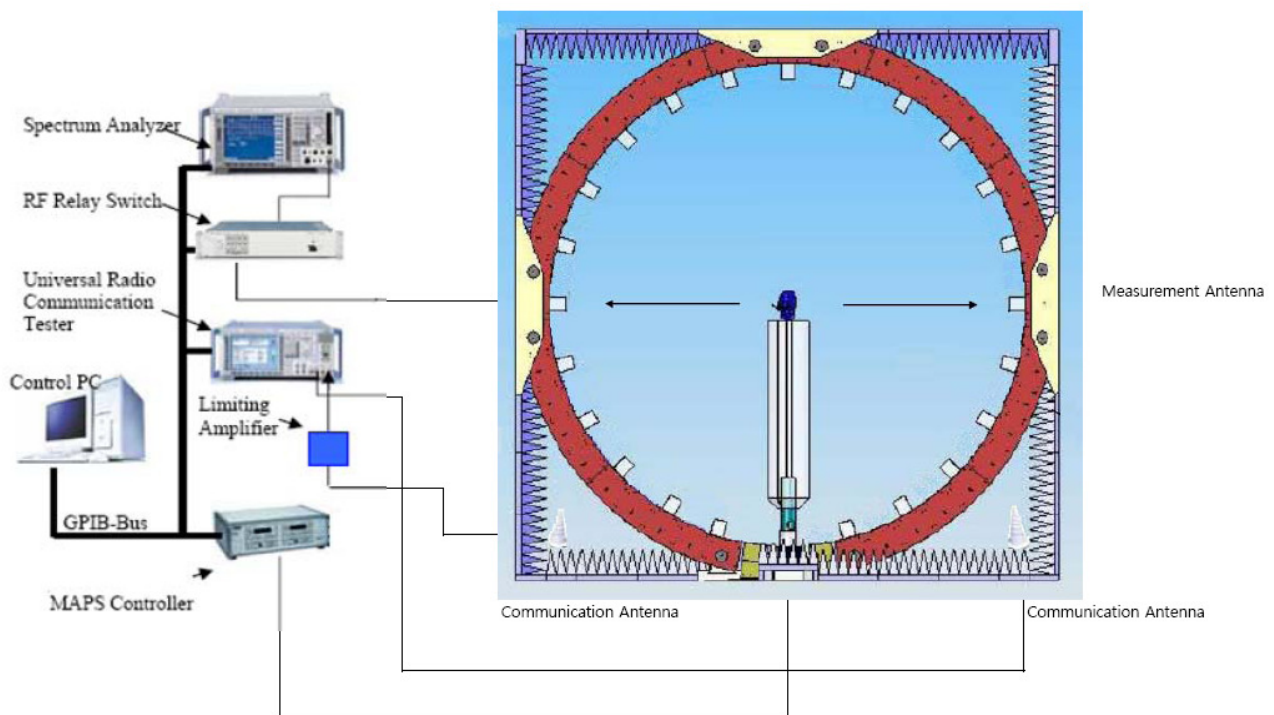
2.1 Test Configuration

Testing Condition:

- Temperature: $22 \pm 3^{\circ}\text{C}$
- Humidity: $< 80\%$

Measurement Facility:

Great-Circle-Cut 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 1.95m



F-1. OTA Measurement System Configuration



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3 Test Equipment List

Type of Equipment	Model Number	Manufacture	Calibration Date	Valid Period
Network Analyzer	E5071C S/N MY46523591	Keysight	2025/12/15	2026/12/14
Quad-Ridge Horn Antenna 700 MHz-10 GHz	EMCO 3164-08 S/N 161915	ETS-Lindgren L.P.	N/A	N/A
MAPS Controller	EMCENTER S/N 160485	ETS-Lindgren L.P.	N/A	N/A
SAM V4.5BS Head Phantom	Head Phantom S/N 3609	SPEAG	NCR	NCR

Definition of Acronyms:

NCR: No Calibration Requirement.



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4 Measurement Uncertainty

Item	2400-2500 MHz (dB)
Gain	0.88
Efficiency	0.88
Measurement Uncertainty (95% CONFIDENCE INTERVAL) K=2	



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5 Test Results

FS			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-7.81	16.56	-3.53
2355	-7.67	17.11	-3.61
2360	-7.25	18.84	-3.06
2365	-7.53	17.65	-2.99
2370	-7.70	16.98	-2.89
2375	-8.05	15.65	-2.78
2380	-7.74	16.82	-2.42
2385	-7.50	17.79	-1.84
2390	-6.92	20.35	-1.38
2395	-6.60	21.87	-0.87
2400	-6.78	20.97	-1.07
2402	-6.81	20.83	-1.19
2405	-6.76	21.08	-0.82
2410	-6.64	21.69	-1.01
2415	-6.25	23.74	-0.26
2420	-5.94	25.48	0.03
2425	-5.69	26.99	0.46
2430	-5.71	26.87	0.35
2435	-5.64	27.32	0.57
2440	-5.74	26.66	0.43
2441	-5.70	26.94	0.49
2445	-5.18	30.35	0.92
2450	-5.02	31.51	1.05
2455	-4.76	33.42	1.25
2460	-4.99	31.67	0.89
2465	-5.01	31.56	0.80
2470	-5.08	31.08	0.83
2475	-4.90	32.35	0.78
2480	-4.71	33.81	1.00



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2482	-4.61	34.56	1.15
2485	-4.45	35.91	1.22
2490	-4.54	35.12	1.10
2495	-4.65	34.30	1.06
2500	-4.59	34.77	0.91
2505	-4.49	35.56	0.98
2510	-4.46	35.84	1.10
2515	-4.40	36.28	1.13
2520	-4.54	35.14	1.10
2525	-4.70	33.90	0.99
2530	-4.84	32.84	0.74
2535	-4.68	34.07	0.73
2540	-4.35	36.69	0.99
2545	-4.14	38.57	1.05
2550	-4.07	39.13	1.19
2555	-4.28	37.29	0.92
2560	-4.52	35.28	0.73
2565	-4.67	34.13	0.69
2570	-4.45	35.86	0.98
2575	-4.14	38.54	1.41
2580	-3.89	40.81	1.68



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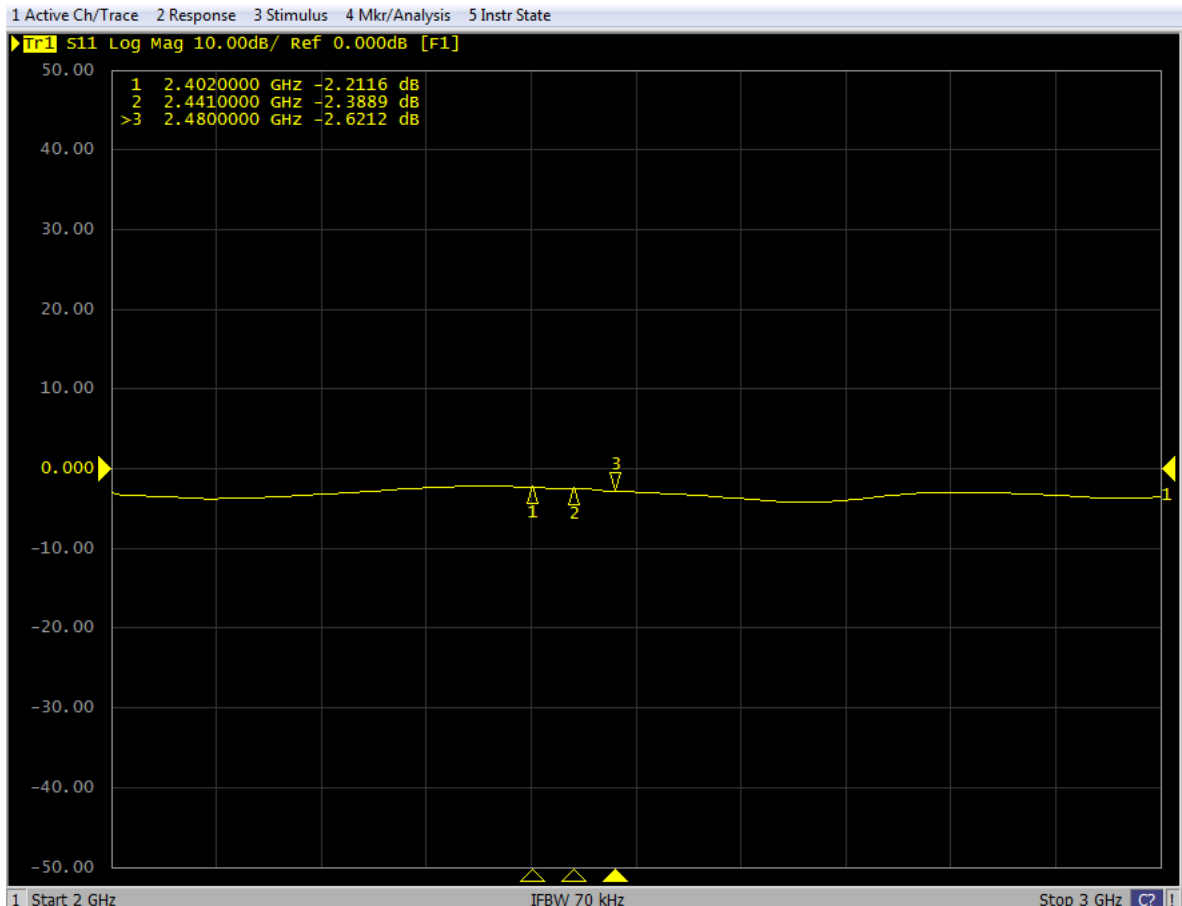
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6 Pattern Plots

6.1 Return Loss



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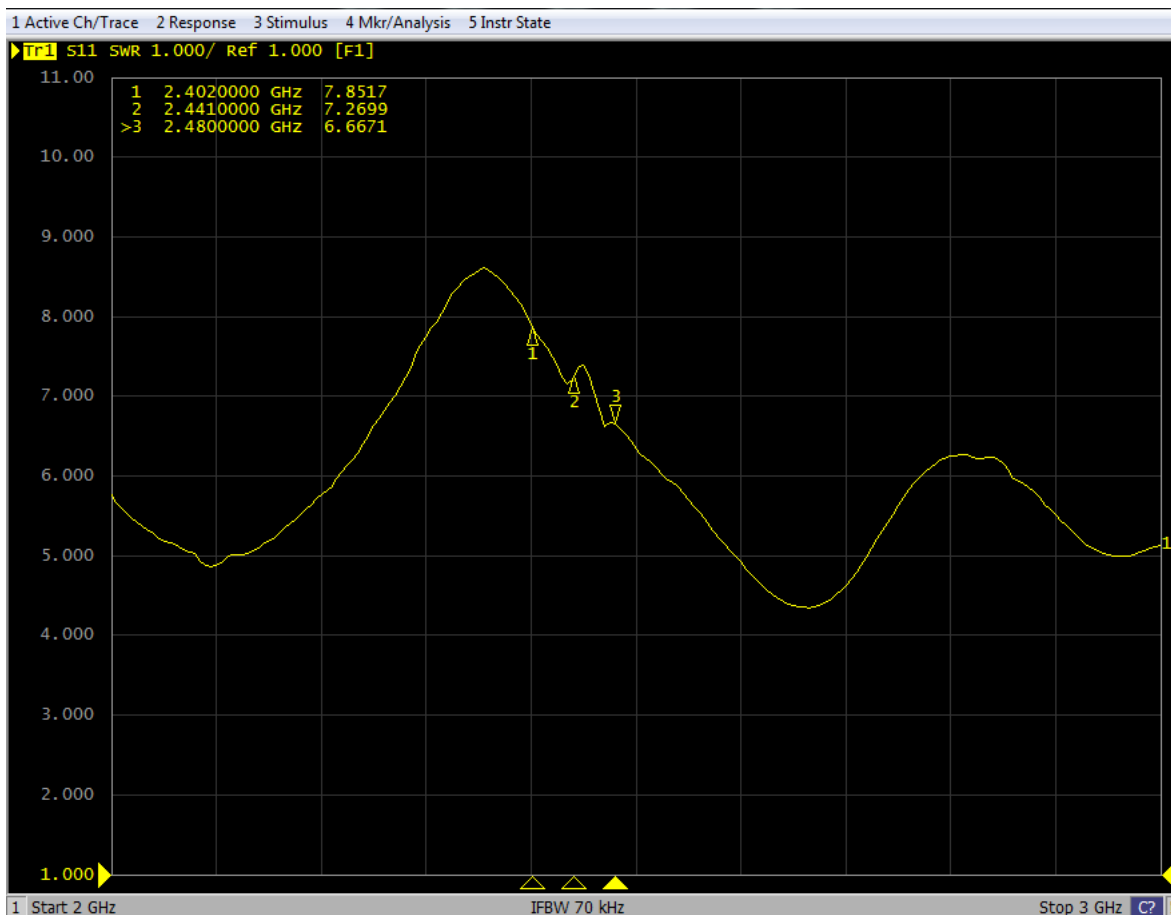
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6.2 VSWR



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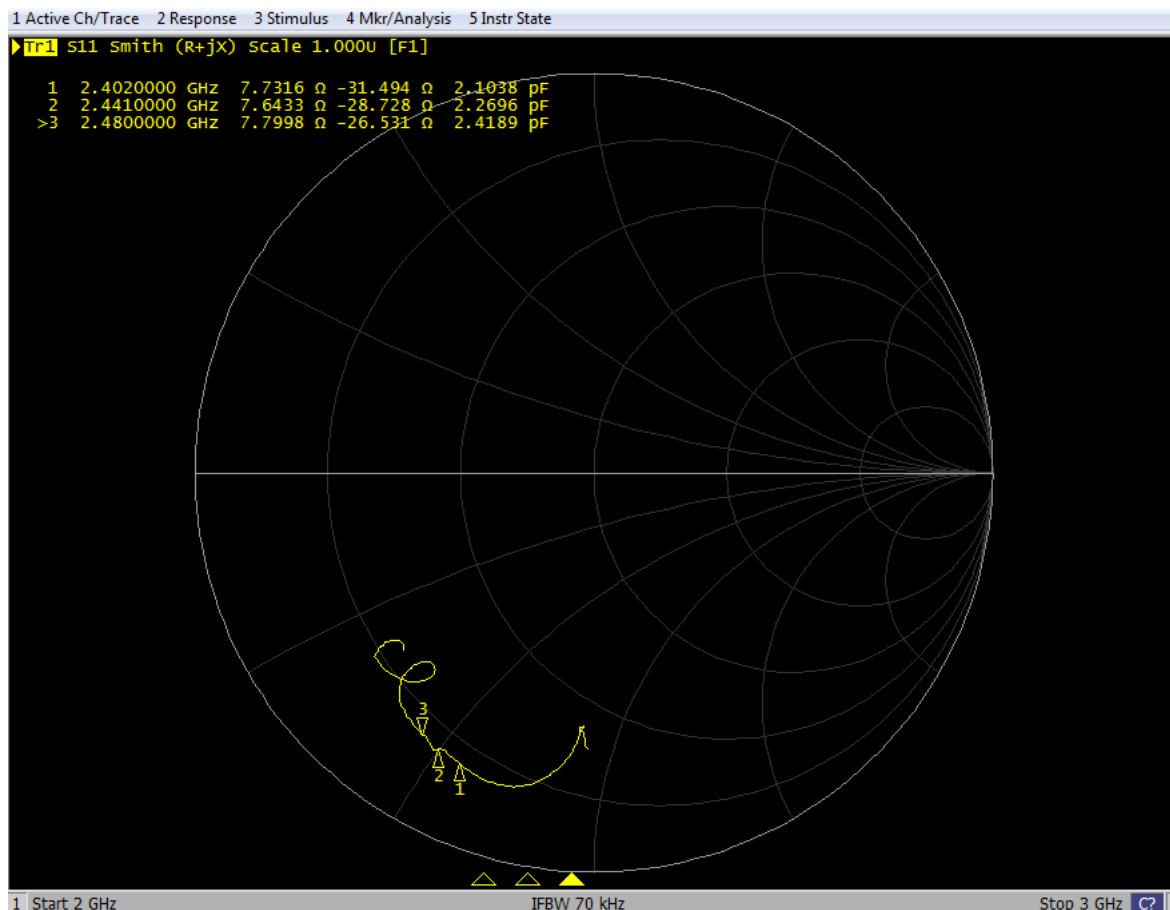
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Rev.: 01

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6.3 Stimulus



#1 Free Space



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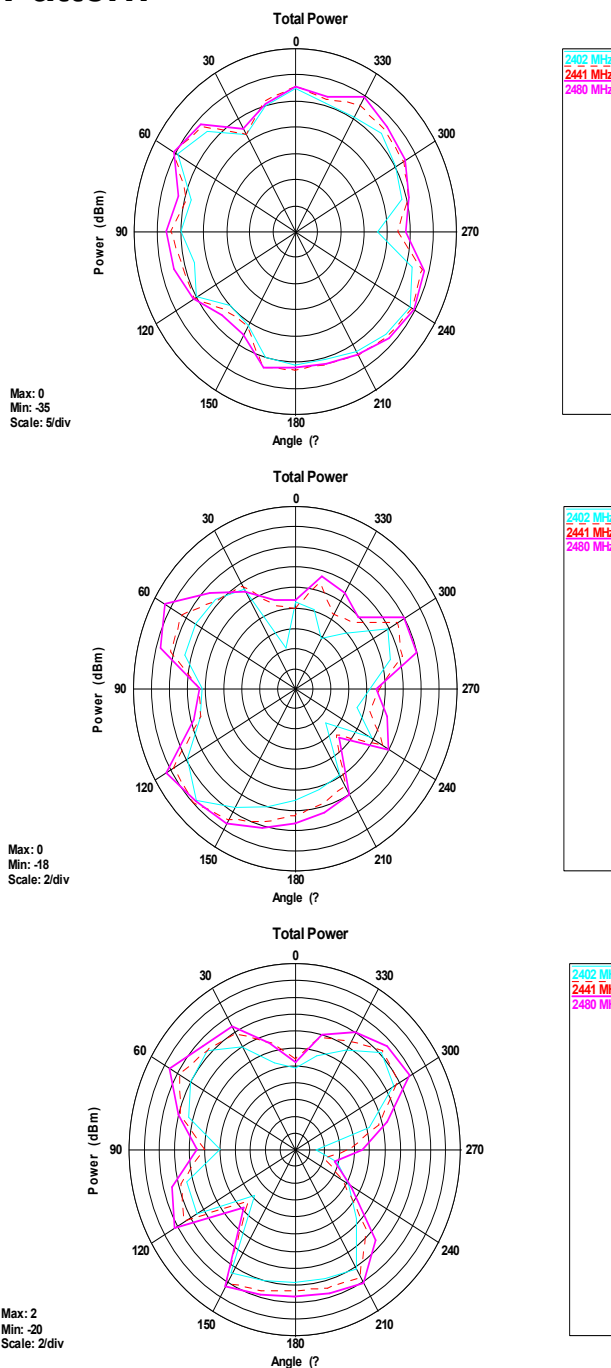
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7 2-D Antenna Pattern



#1 Free Space



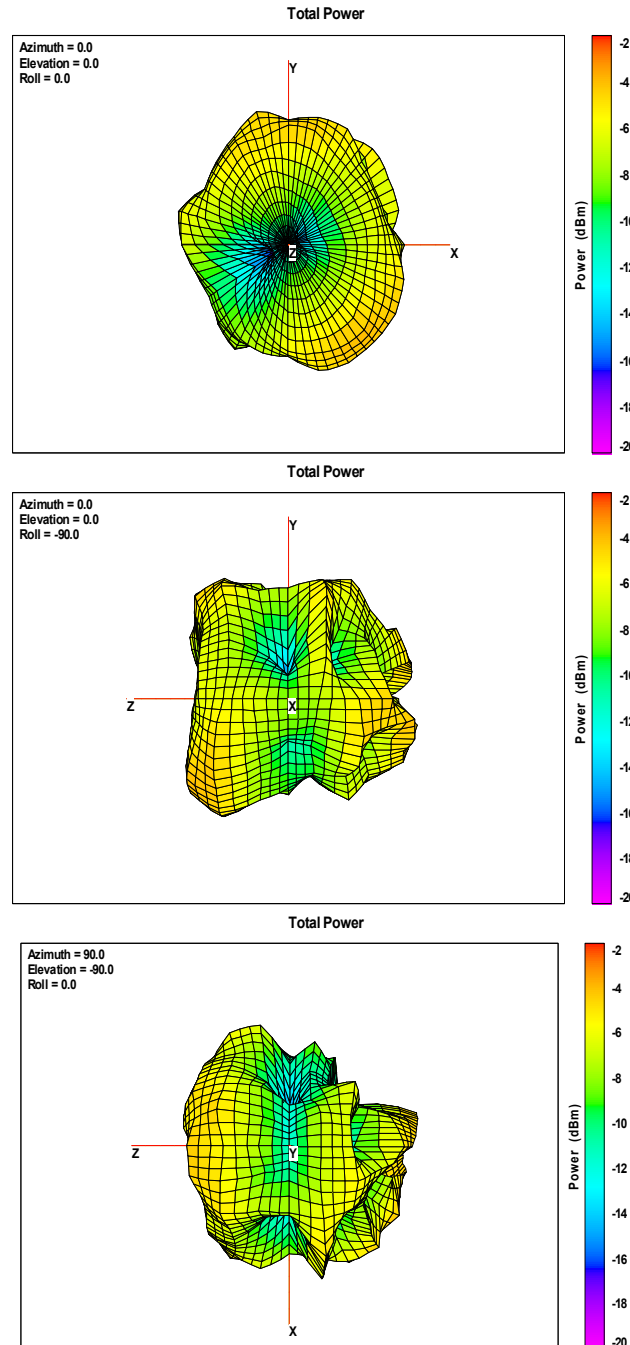
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8 3-D Antenna Pattern



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9 The EUT and Test Configuration

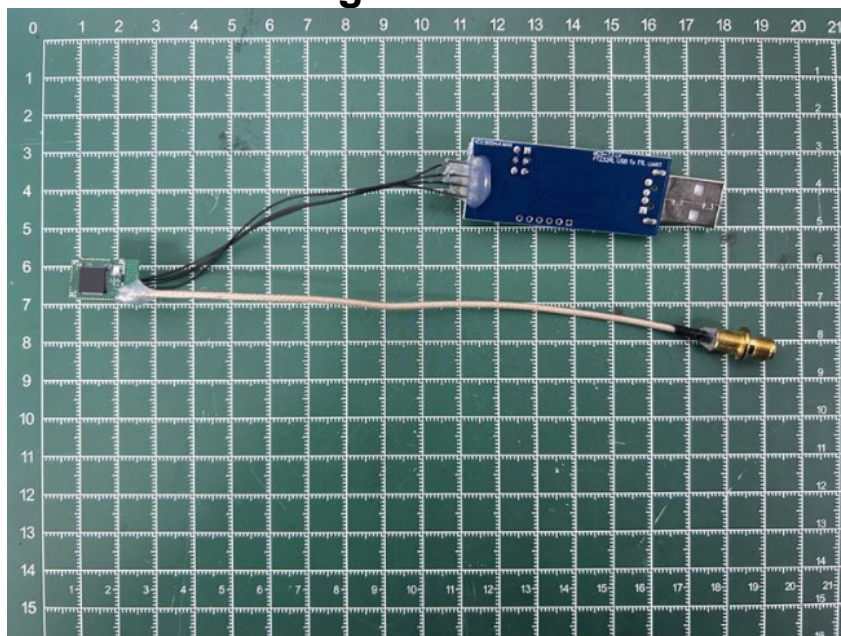
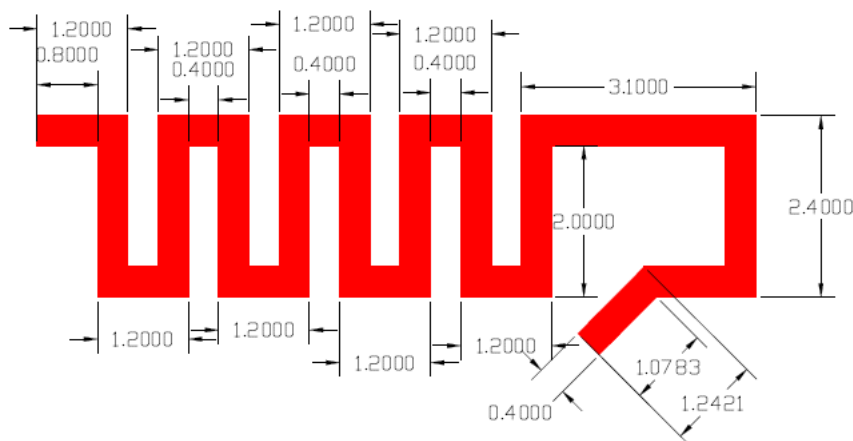


Photo of EUT



Antenna Dimensions

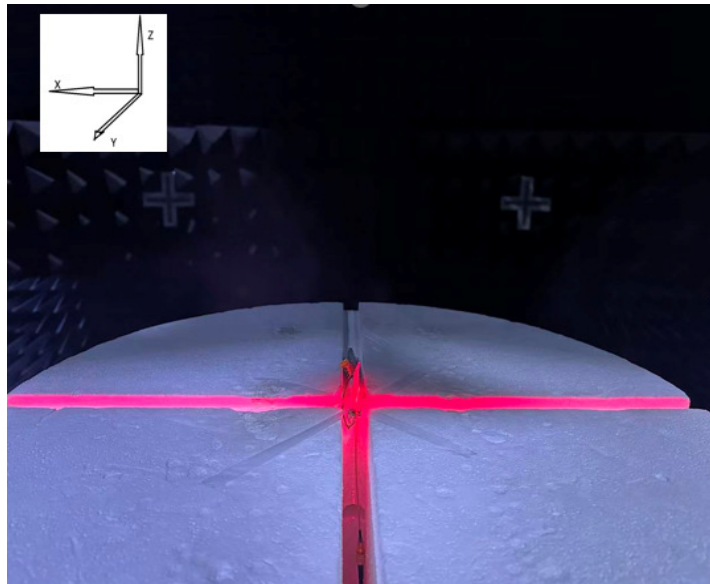


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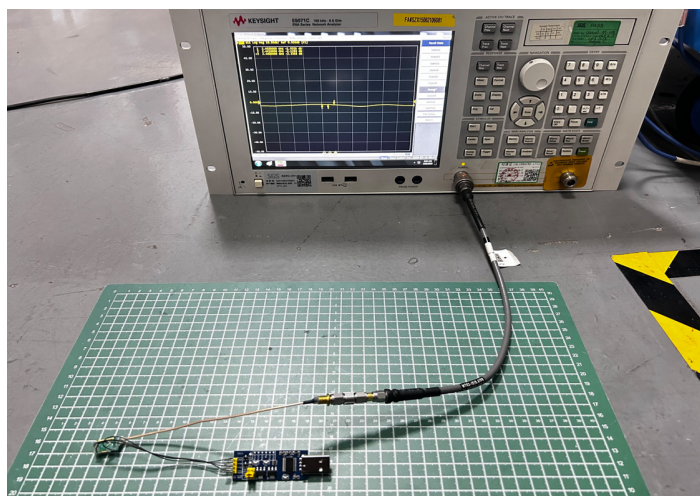
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Free Space View



Free Space Impedance Setup

---END---



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