

ANTENNA PASSIVE TEST REPORT

Application No. SZOA2401000007AT
Applicant Huizhou Enya Musical Instrument Co., Ltd.
Manufacturer Huizhou Enya Musical Instrument Co., Ltd.
Product Name GUITAR
Model No. BP1048,CH573
Standards ANSI/IEEE Std 149-2008
Date Initial Sample(s) Received 2024.1.15
Testing Start Date 2024.1.15
Testing Finish Date 2024.1.15
Report Issue Date 2024.1.22

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

YUANYU LUO

Prepared by

Max. Huang

Reviewed By

Yubin Li

Approved by



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

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Revision Version

Report No.	Version	Date	Memo
SZOA240100000701	01	2024.1.22	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	Huizhou Enya Musical Instrument Co., Ltd.
Applicant's Address	Huizhou city Qiuchang street tea garden management area Shunju village
Contact	JIAN BIAO HE
Tel.	0752—3595114
Fax	0752—3595114
E-mail	hjb@enymusical.com

1.3 Details of Manufacturer

Manufacturer's Name	Huizhou Enya Musical Instrument Co., Ltd.
Manufacturer's Address	Huizhou city Qiuchang street tea garden management area Shunju village
Contact	JIAN BIAO HE
Tel.	0752—3595114
Fax	0752—3595114
E-mail	hjb@enymusical.com



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1.4 General Description of EUT

Device Description:	GUITAR
Device Manufacturer:	Huizhou Enya Musical Instrument Co., Ltd.
Device Model:	BP1048,CH573
Hardware Version:	N/A
Software Version:	N/A
Antenna Dimensions:	12.3 x 5.6 x 0.5 mm

1.5 Test Procedure

Testing is performed according to the **ANSI/IEEE Std 149-2008**.



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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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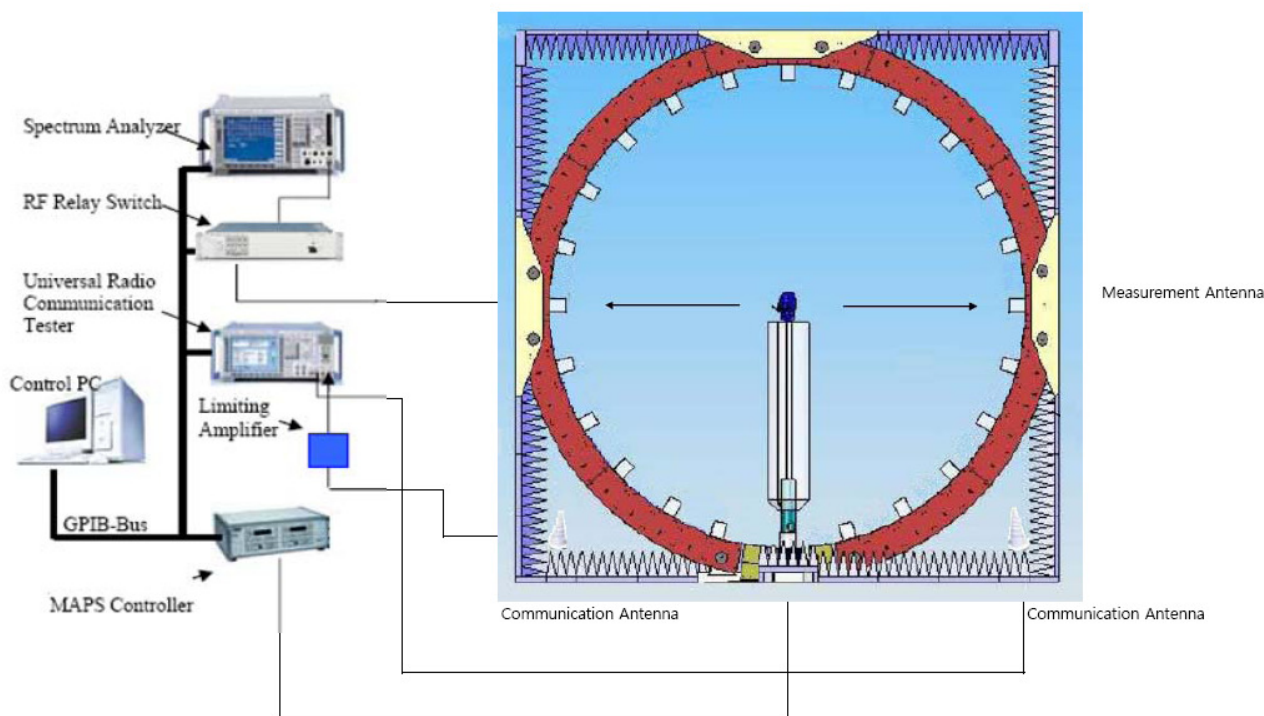
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2 OTA Measurements System Configuration

2.1 Test Configuration

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 5m



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	2023/2/16	2024/2/15
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



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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

BP1048			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-9.65	10.84	-1.16
2355	-9.97	10.07	-1.57
2360	-9.87	10.30	-1.39
2365	-10.02	9.95	-1.52
2370	-10.16	9.63	-1.72
2375	-10.31	9.31	-1.77
2380	-10.40	9.12	-1.96
2385	-10.36	9.19	-1.90
2390	-10.55	8.81	-2.16
2395	-10.65	8.61	-2.29
2400	-11.16	7.65	-2.76
2402	-11.39	7.26	-3.09
2405	-11.59	6.93	-3.35
2410	-11.81	6.59	-3.54
2415	-12.06	6.22	-4.00
2420	-12.08	6.20	-4.11
2425	-12.38	5.78	-4.46
2430	-12.64	5.45	-4.97
2435	-12.89	5.15	-5.10
2440	-13.10	4.90	-5.65
2441	-13.10	4.90	-5.70
2445	-13.14	4.85	-5.62
2450	-13.30	4.68	-6.08
2455	-13.23	4.75	-6.11
2460	-13.37	4.60	-6.44

CH573			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-8.47	14.22	-1.38
2355	-8.71	13.47	-1.76
2360	-8.56	13.93	-1.59
2365	-8.64	13.66	-1.78
2370	-8.66	13.61	-1.93
2375	-8.72	13.43	-1.96
2380	-8.63	13.72	-1.91
2385	-8.47	14.24	-1.68
2390	-8.46	14.27	-1.64
2395	-8.40	14.46	-1.59
2400	-8.72	13.41	-1.86
2402	-8.85	13.02	-2.07
2405	-8.96	12.72	-2.19
2410	-9.00	12.60	-2.26
2415	-9.01	12.56	-2.38
2420	-8.78	13.23	-2.16
2425	-8.87	12.98	-2.19
2430	-8.89	12.91	-2.34
2435	-8.93	12.79	-2.15
2440	-8.92	12.82	-2.29
2441	-8.87	12.97	-2.25
2445	-8.80	13.17	-1.92
2450	-8.82	13.11	-2.03
2455	-8.65	13.63	-1.70
2460	-8.75	13.35	-1.77



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2465	-13.40	4.57	-6.61	2465	-8.71	13.46	-1.67
2470	-13.55	4.41	-6.72	2470	-8.90	12.90	-1.81
2475	-13.52	4.45	-6.67	2475	-8.86	12.99	-1.78
2480	-13.43	4.54	-6.52	2480	-8.84	13.06	-1.74
2482	-13.38	4.59	-6.49	2482	-8.80	13.18	-1.76
2485	-13.32	4.65	-6.27	2485	-8.76	13.30	-1.67
2490	-13.22	4.77	-6.10	2490	-8.74	13.37	-1.59
2495	-12.99	5.03	-5.78	2495	-8.59	13.85	-1.44
2500	-12.84	5.20	-5.58	2500	-8.56	13.93	-1.38
2505	-12.57	5.53	-5.26	2505	-8.41	14.43	-1.24
2510	-12.45	5.69	-5.07	2510	-8.40	14.45	-1.25
2515	-12.46	5.68	-5.02	2515	-8.52	14.05	-1.39
2520	-12.49	5.64	-4.99	2520	-8.65	13.65	-1.59
2525	-12.51	5.61	-4.95	2525	-8.79	13.23	-1.70
2530	-12.48	5.65	-4.86	2530	-8.85	13.03	-1.78
2535	-12.44	5.70	-4.79	2535	-8.93	12.78	-1.82
2540	-12.27	5.93	-4.54	2540	-8.87	12.96	-1.72
2545	-12.08	6.20	-4.36	2545	-8.82	13.13	-1.64
2550	-11.97	6.35	-4.15	2550	-8.80	13.17	-1.58
2555	-11.91	6.44	-4.10	2555	-8.85	13.03	-1.68
2560	-11.90	6.46	-3.97	2560	-8.92	12.82	-1.74
2565	-11.80	6.60	-3.91	2565	-8.92	12.83	-1.80
2570	-11.71	6.75	-3.83	2570	-8.92	12.81	-1.86
2575	-11.54	7.01	-3.75	2575	-8.84	13.05	-1.90
2580	-11.36	7.31	-3.60	2580	-8.79	13.22	-1.82



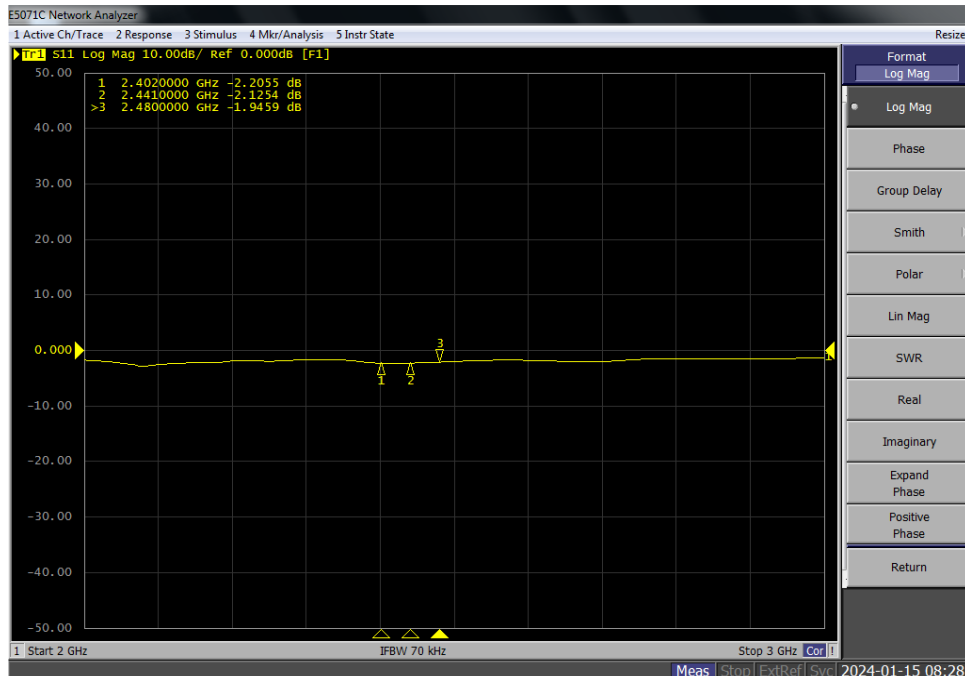
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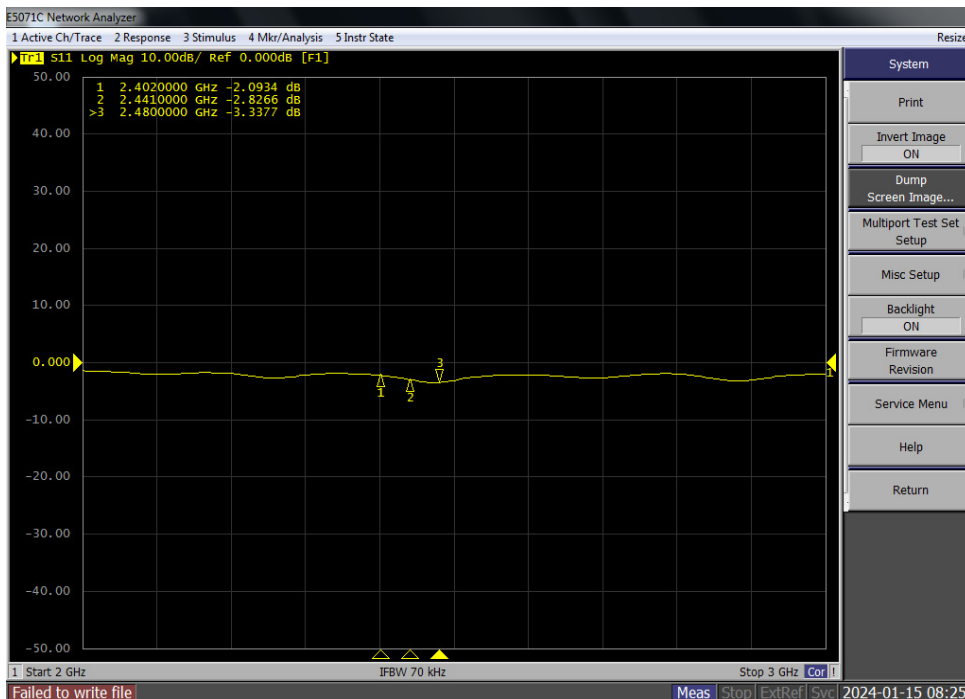
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6 Pattern Plots

6.1 Return Loss



BP1048



CH573

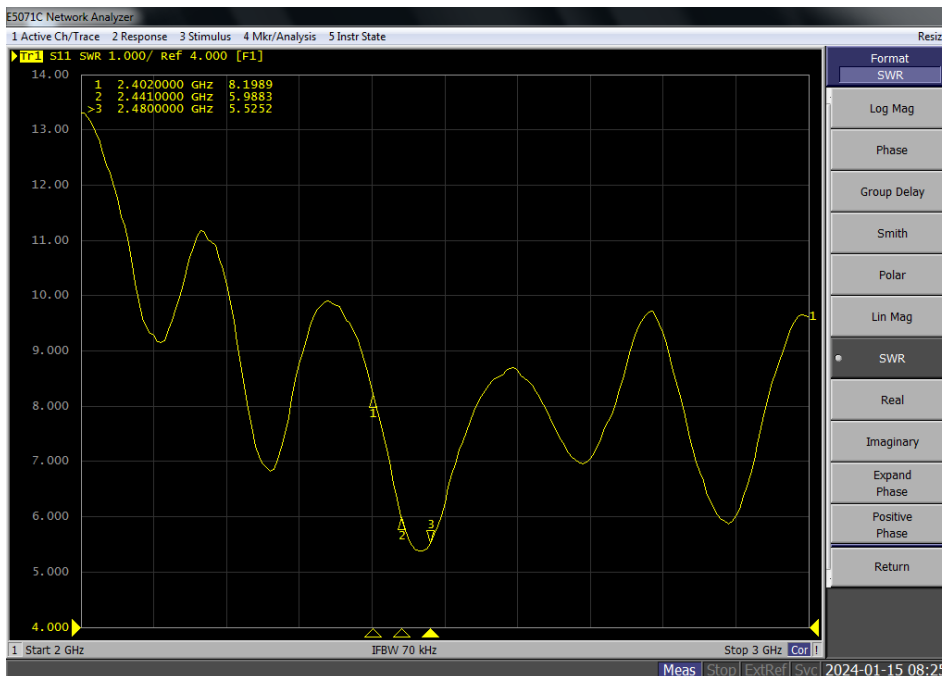
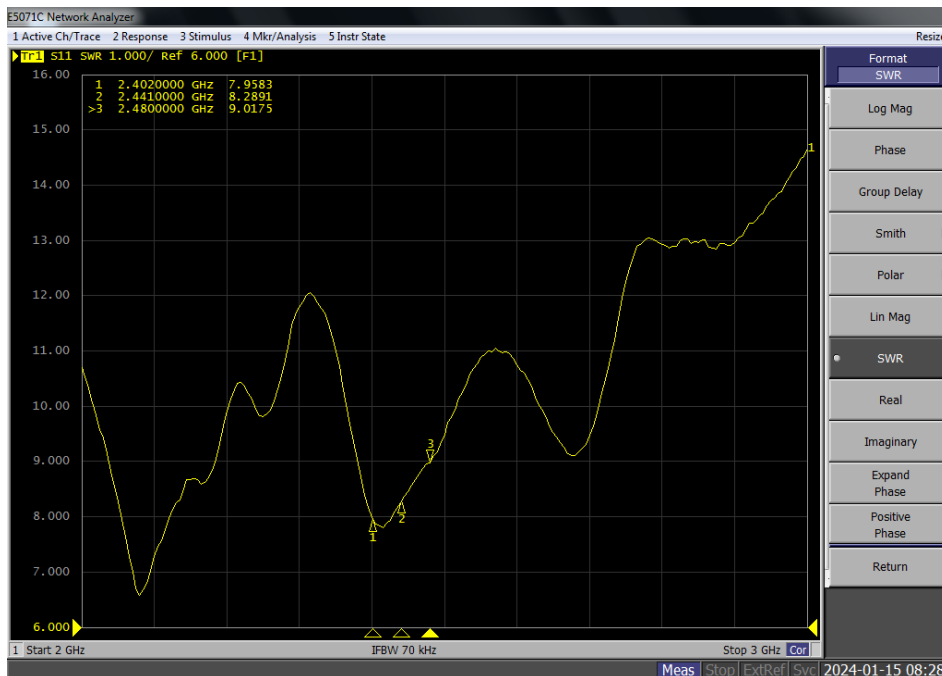


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6.2 VSWR

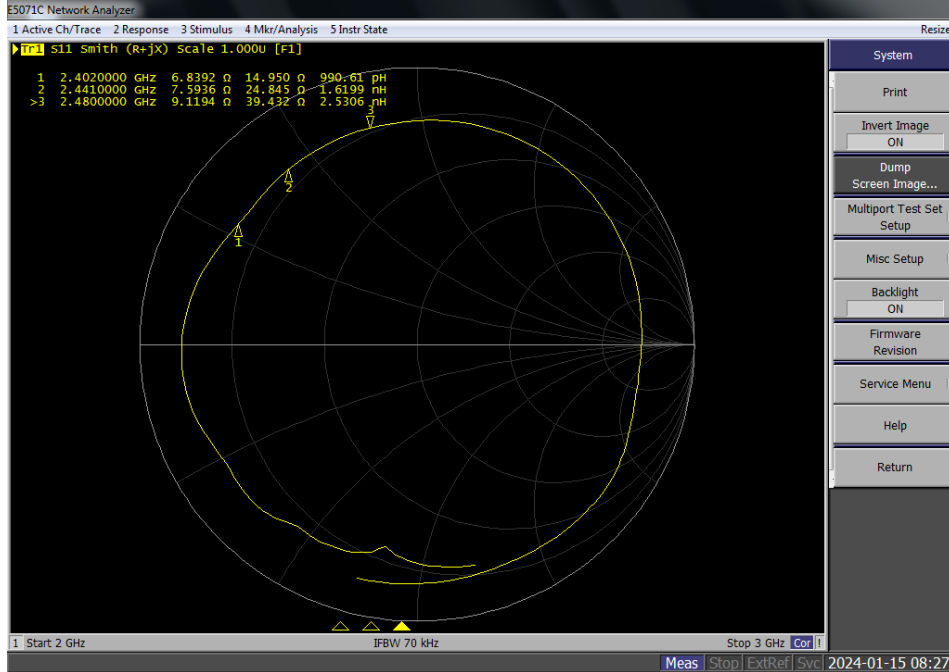


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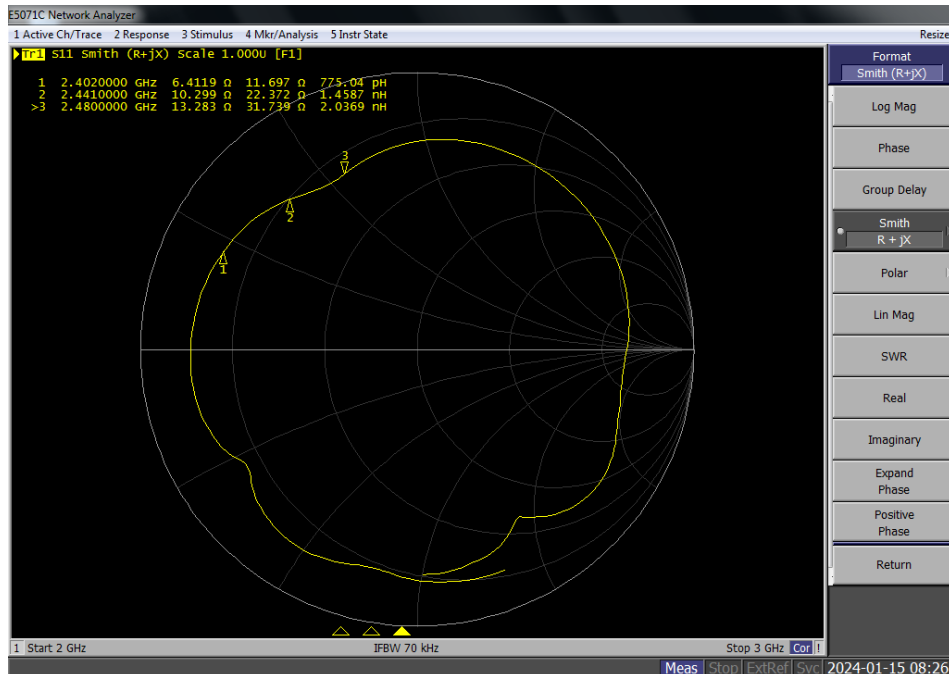
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6.3 Stimulus



BP1048



CH573

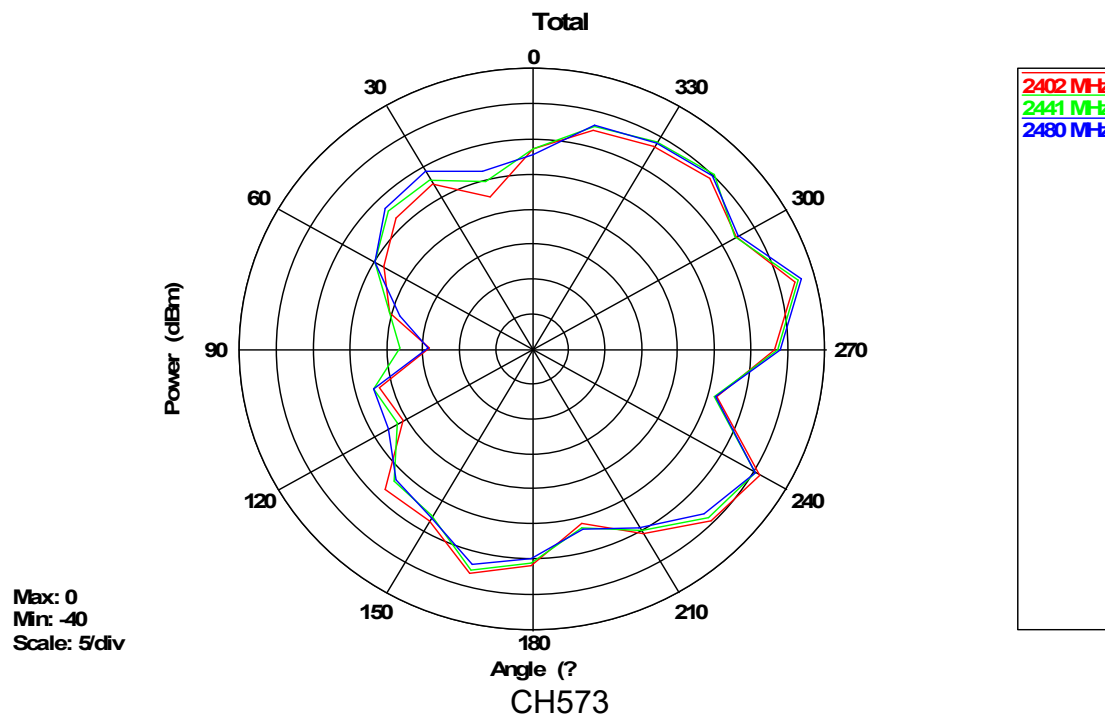
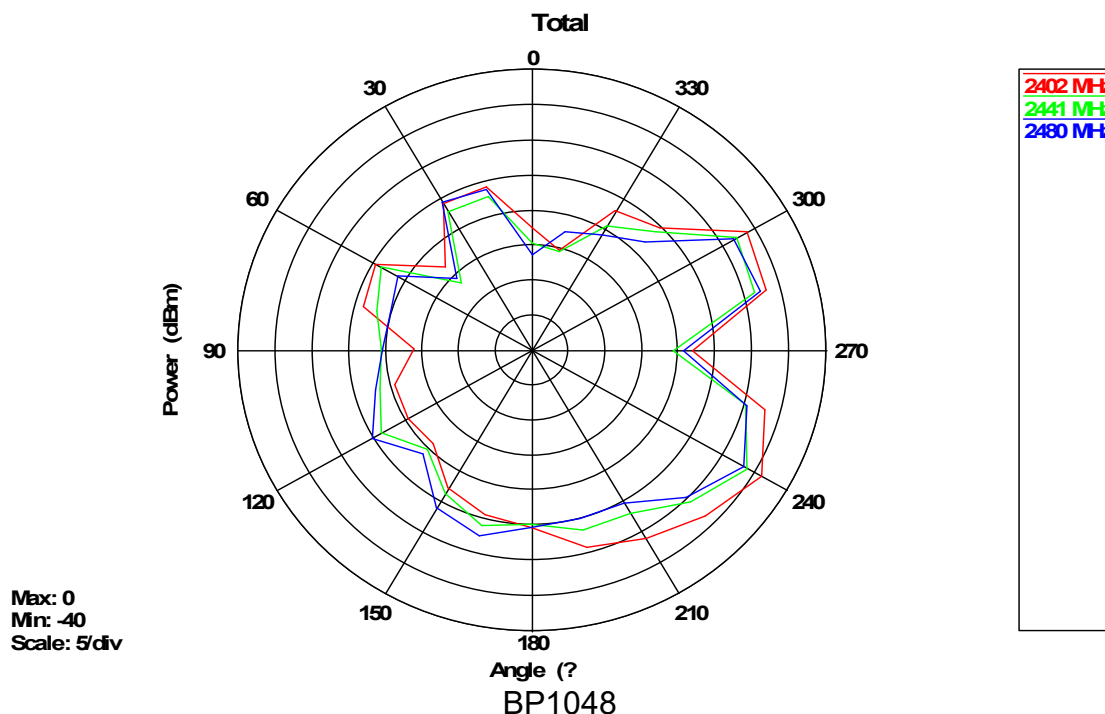


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7 2-D Antenna Pattern(Theta=90°)



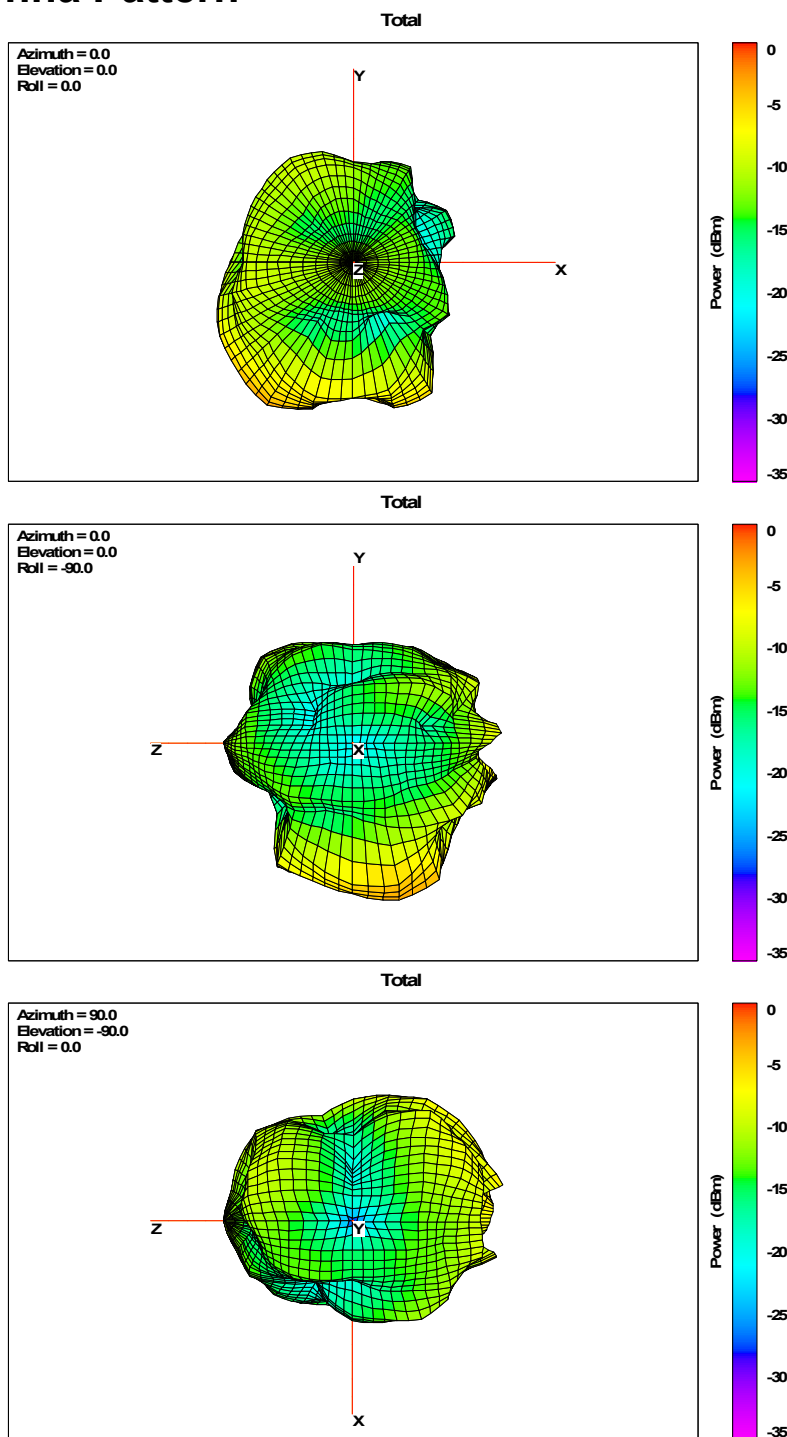
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8 3-D Antenna Pattern



BP1048

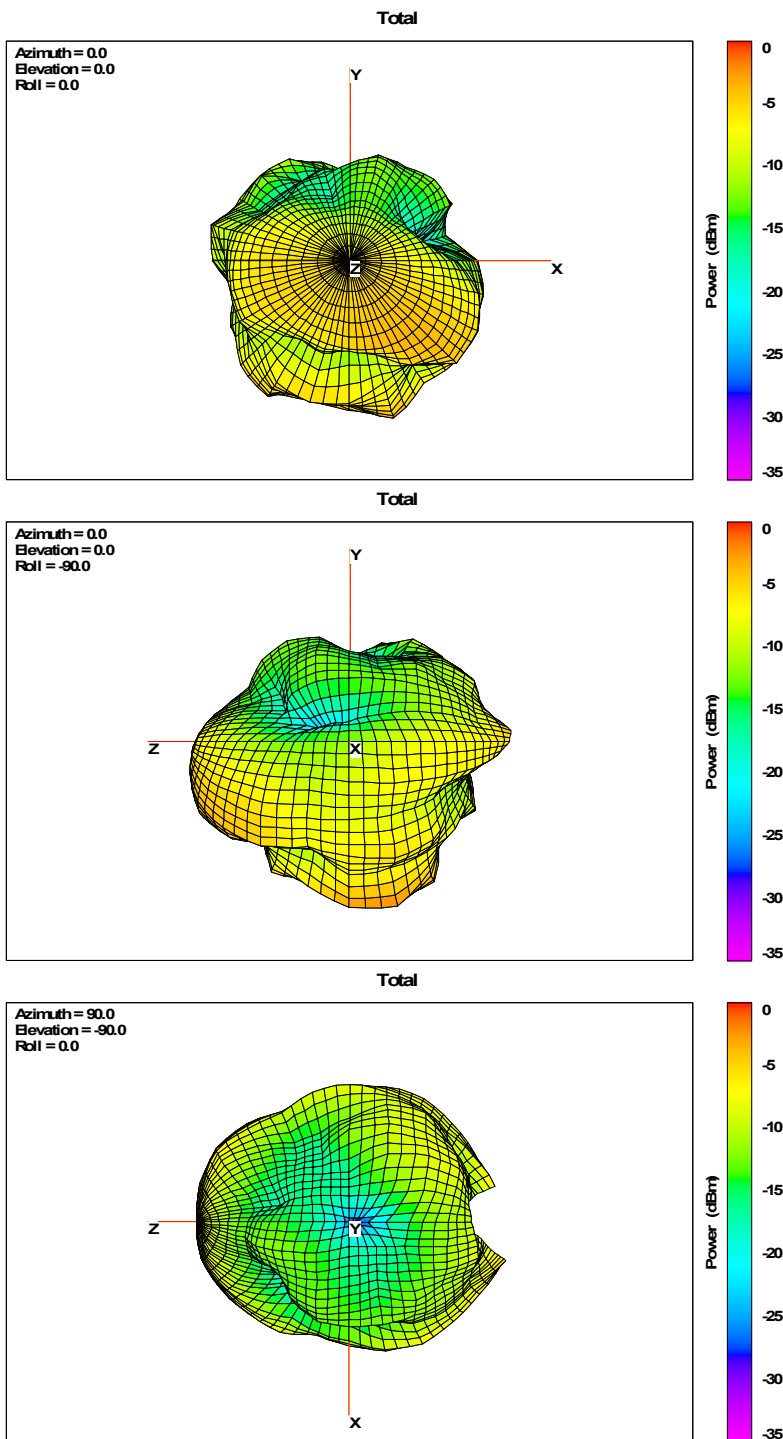


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9 The EUT and Test Configuration

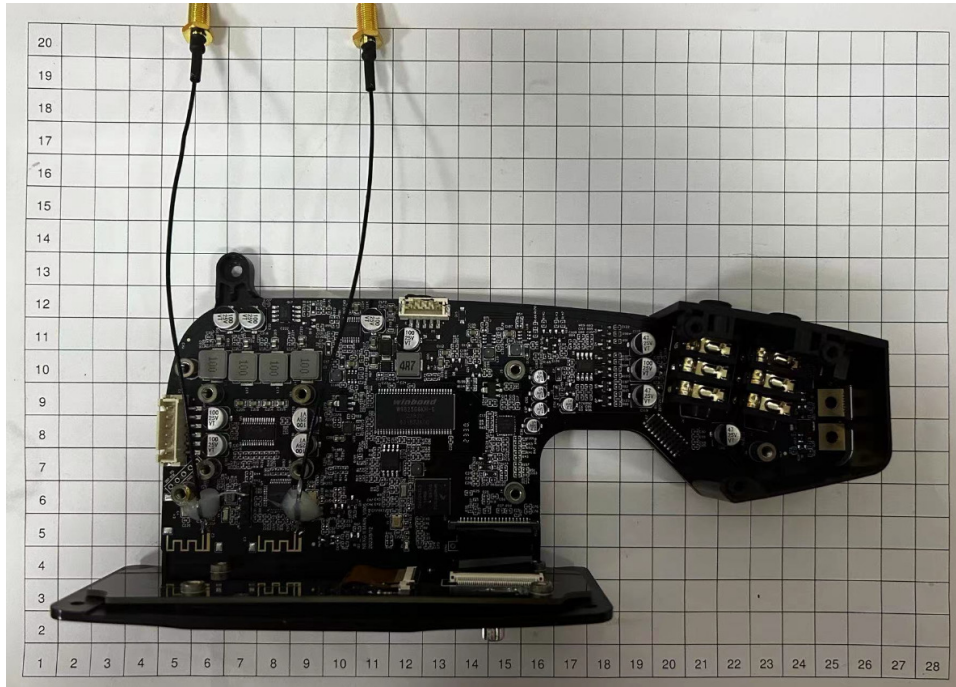
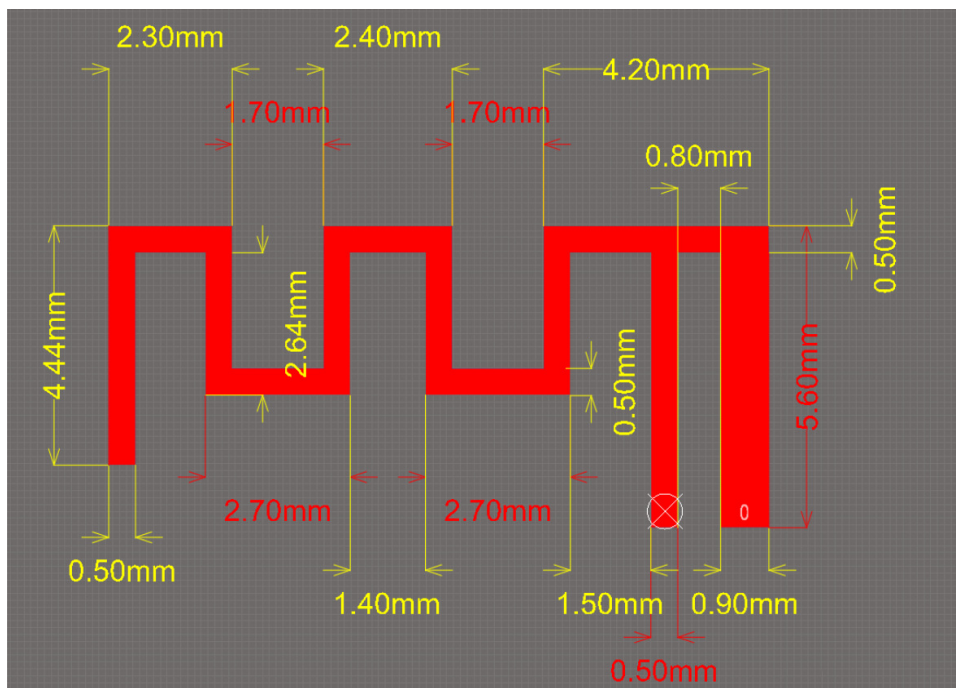


Photo of EUT



Antenna Dimensions (BP1048&CH573)

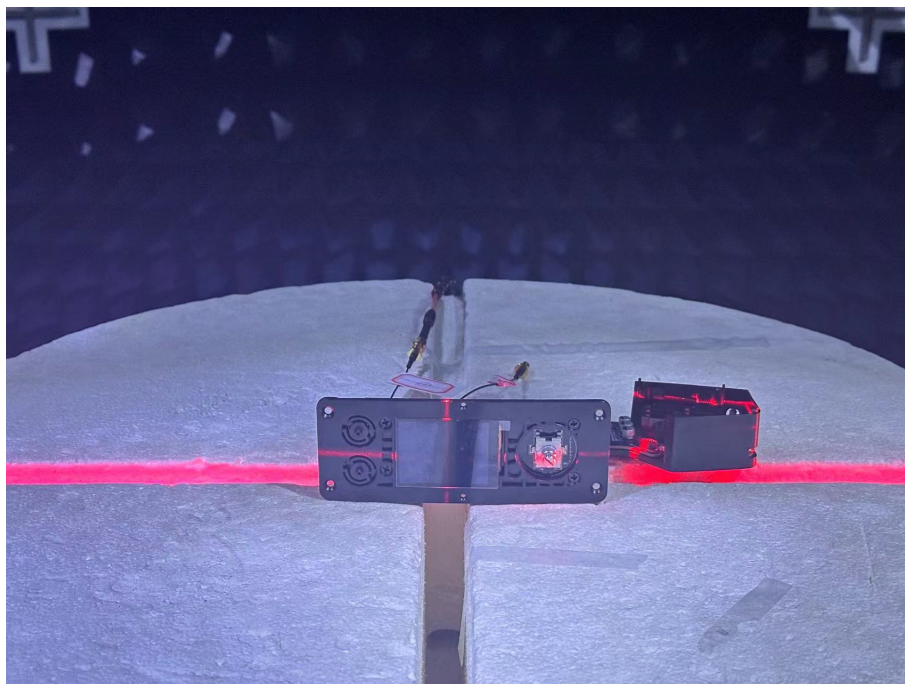


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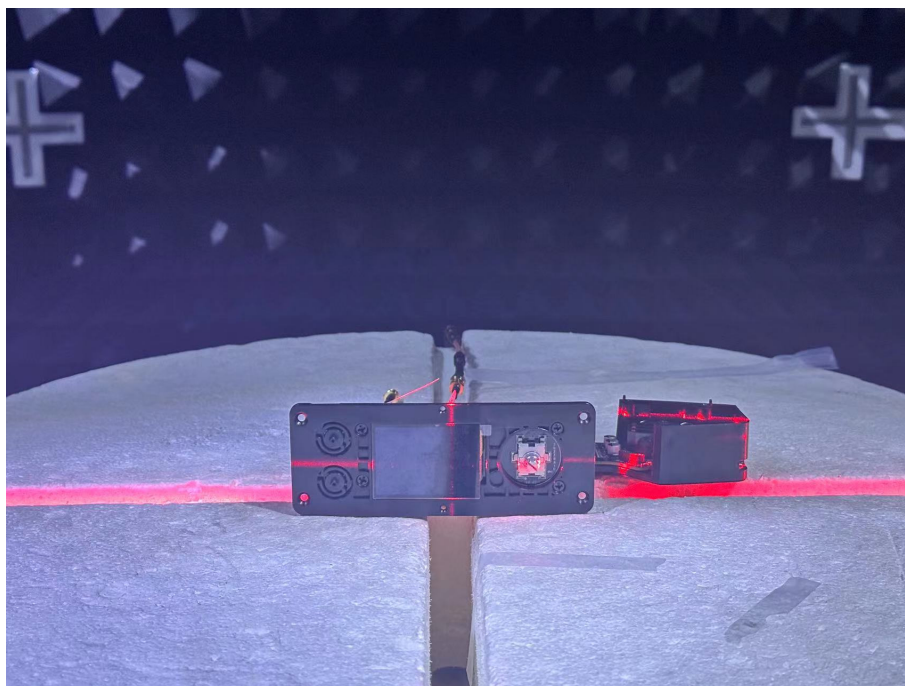
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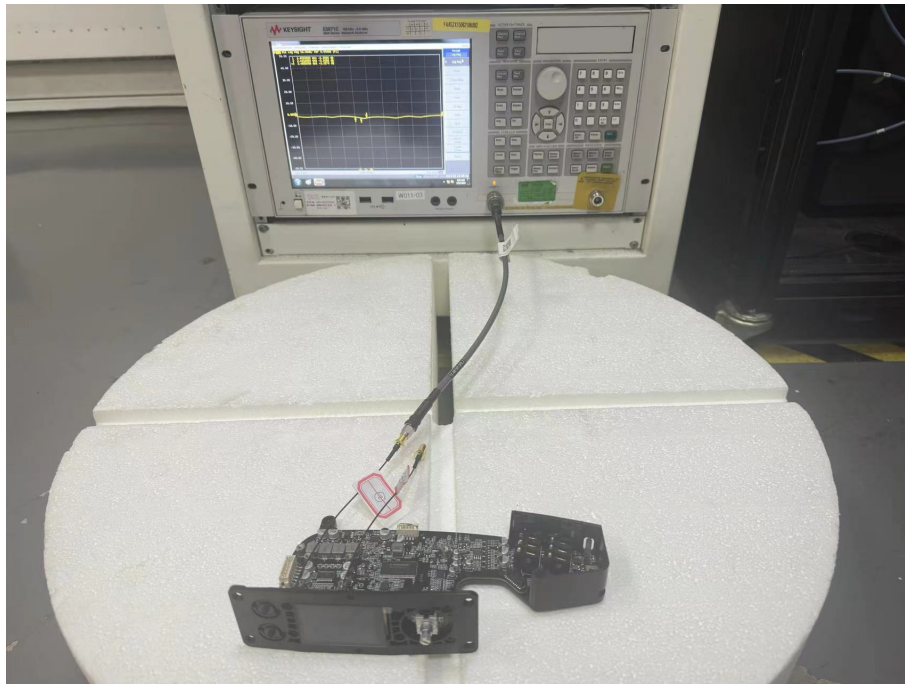
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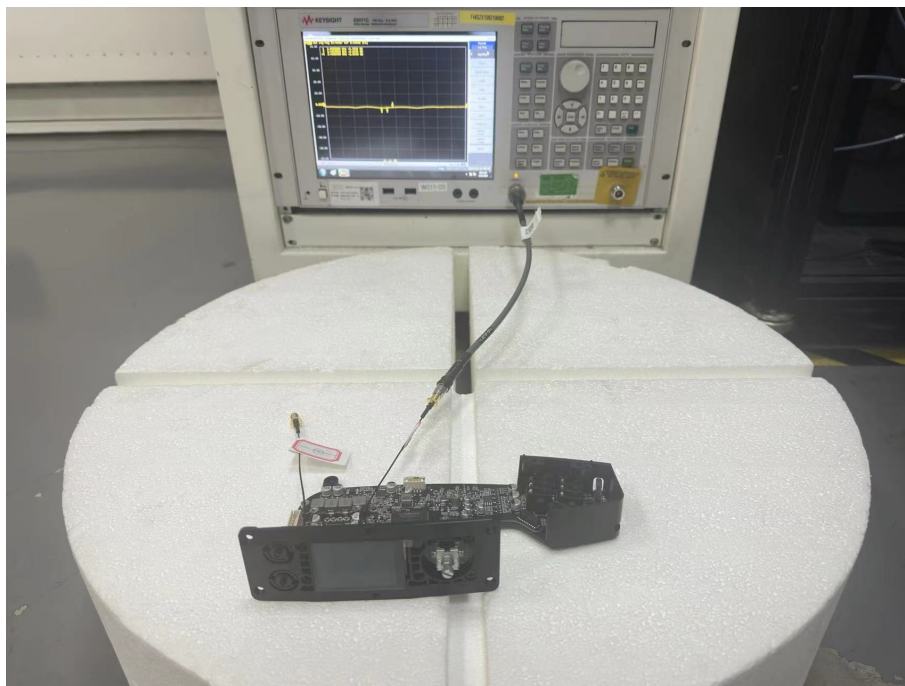
CH573



BP1048



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BP1048

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