

# ISED TEST REPORT FOR CERTIFICATION On Behalf of

TCL OVERSEAS MARKETING LTD

2.1 Channel Dolby Atmos Soundbar with Wireless Subwoofer

Model Number: S55H

Additional Model: S55H-CA, S55H5, S55H1, S55H7

IC: 26250-S55H

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Report Number:	ESTE-R2401399-2
Date of Test:	Jan. 05~25, 2024
Date of Report:	Mar. 31, 2025

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**Applicant:** TCL OVERSEAS MARKETING LTD  
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**Manufacturer:** TCL OVERSEAS MARKETING LTD  
**Address:** 5/F, Building 22E, 22 Science Park East Avenue HongKong  
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Town, Quang Ninh Province, Vietnam

**E.U.T:** 2.1 Channel Dolby Atmos Soundbar with Wireless Subwoofer

**Model Number:** S55H

**Additional Model:** S55H-CA, S55H5, S55H1, S55H7  
 Note: Models S55H and S55H-CA are identical except model name.  
 Models S55H5, S55H1, S55H7 are identical except sales channels;  
 S55H5 for best buy sales channels, S55H1 for Walmart sales channels,  
 S55H7 for costco sales channels.

**Power Supply:** AC 100-240V, 50/60Hz

**Trade Name:** TCL, FFALCON      **Serial No.:** -----

**Date of Receipt:** Jan. 05, 2024      **Date of Test:** Jan. 05~25, 2024

**Test Specification:** RSS-247 Issue 3  
 RSS-Gen Issue 5  
 ANSI C63.10:2013

**Test Result:** The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the Regulations RSS-247 and RSS-Gen requirements.

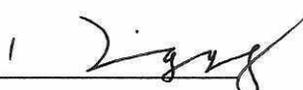
This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.

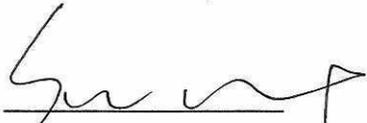
**Date:** Mar. 31, 2025

Prepared by:

Reviewed by:

Approved by:

  
 Ring Yang / Assistant

  
 Seven Wang / Engineer

  
 Iceman Hu / Manager

**Other Aspects:** This report is based on the previous report with report number: ESTE-R2401399-1, factories were added in this report.

Abbreviations: OK/P=passed    fail/F=failed    n.a/N=not applicable    E.U.T=equipment under tested

This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

Product Name	:	2.1 Channel Dolby Atmos Soundbar with Wireless Subwoofer
Model Number	:	S55H
Operation frequency	:	2402MHz~2480MHz
Number of channel	:	40
Max Output Power (PEAK)	:	5.64 dBm
Modulation Type	:	SRD
Software Version	:	V03
Hardware Version	:	V02
Sample Type	:	Prototype production

Note: For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

### 1.2. Antenna Information

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	-	-	Internal	-	3.21

Note:  
1.The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.  
2.The test results of this report only apply to the sample as received.

### 1.3. Information of RF Cable

Cable Loss(dB)	Provided by
1.0	TCL OVERSEAS MARKETING LTD

Note:  
1.The customer declared the loss value of the RF Cable. and the test results of this report only apply to the sample as received.  
2.The laboratory is not responsible for the accuracy of the cable loss.

## 2.SUMMARY OF TEST

### 2.1.Summary of test result

No.	Description of Test Item	IC Standards Section	Results
1	6dB Bandwidth & 99% Occupied Bandwidth	RSS-247 5.2 (a) RSS-Gen 6.7	PASS
2	Maximum Peak Output Power	RSS-247 5.4 (d)	PASS
3	Power Spectral Density	RSS-247 5.2 (b)	PASS
4	Conducted Band Edge	RSS-247 5.5	PASS
5	Conducted Spurious Emissions	RSS-247 5.5	PASS
6	Radiated Spurious Emissions and Band Edge	RSS-247 5.5 RSS-Gen 8.9 RSS-Gen 8.10	PASS
7	AC Power Line Conducted Emissions	RSS-Gen 8.8	PASS
8	Transmit Antenna	RSS-Gen 6.8	PASS

Note:“N/A” denotes test is not applicable in this test report.

## 2.2. Test Facilities

EMC Lab : Accredited by CNAS, CHINA  
Registration No.: L5288  
This Accreditation is valid until: November 12, 2029

Recognized by FCC, USA  
Designation Number: CN1215  
This Recognition is valid until: January 31, 2026

Accredited by A2LA, USA  
Registration No.: 4366.01  
This Accreditation is valid until: January 31, 2026

Recognized by Industry Canada  
CAB identifier No.: CN0035  
This Recognition is valid until: January 31, 2026

Recognized by VCCI, Japan  
Registration No.: C-14103; T-20073; R-13663;  
R-20103; G-20097  
Date of registration: Apr. 20, 2020  
This Recognition is valid until: Apr. 19, 2026

Recognized by TUV Rheinland, Germany  
Registration No.: UA 50413872 0001  
Date of registration: July 31, 2018

Recognized by Intertek  
Registration No.: 2011-RTL-L2-64  
Date of registration: November 08, 2018

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan,  
Guangdong, China

### 2.3.Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	±3.48dB
Uncertainty for spurious emissions test (Below 30MHz)	±1.62 dB
Uncertainty for spurious emissions test (30MHz-1GHz)	±4.60 dB(Polarize: H)
	±4.68 dB(Polarize: V)
Uncertainty for spurious emissions test (1GHz to 25GHz)	±4.96dB
Uncertainty for radio frequency	7×10 <sup>-8</sup>
Uncertainty for conducted RF Power	1.08dB
Uncertainty for Power density test	0.26dB

Note:This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

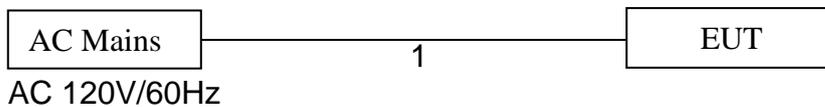
### 2.4.Assistant equipment used for test

Item	Equipment	Brand	Model Name/Type No.	IC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.5m	AC Cable

### 2.5.Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5) meter high above ground. EUT was beset into ble test mode by software before test.



(EUT: 2.1 Channel Dolby Atmos Soundbar with Wireless Subwoofer)

## 2.6. Test Mode

The test mode was selected for the final test as listed below.

Test Item	Modulation Type	Test Channel
6dB Bandwidth & 99% Occupied Bandwidth	SRD	Low/Middle/High
Maximum Peak Output Power	SRD	Low/Middle/High
Power Spectral Density	SRD	Low/Middle/High
Conducted Band Edge	SRD	Low/ High
Conducted Spurious Emissions	SRD	Low/Middle/High
Radiated Spurious Emissions(Below 1GHz)	SRD	Low/Middle/High
Radiated Spurious Emissions(Above 1GHz)	SRD	Low/Middle/High
Radiated Band Edge	SRD	Low/High
AC Power Line Conducted Emissions	SRD	Low/Middle/High

Note: In radiated measurement, the EUT had been pre-scan on the positioned of each 3 axis(X,Y,Z), the worst case was found when positioned on **X-plane**.

## 2.7. Power Setting of Test Software

Software Name	BT FCC Tool V2.25		
Frequency(MHz)	2402	2440	2480
SRD 1Mbps Setting	6	6	6
SRD 2Mbps Setting	6	6	6

Note: This information is provided by the applicant.

## 2.8. Duty Cycle

Refer to section 11: Appendix H

Note:

1. If duty cycle <98 %, the conducted average output power and average power spectral density should be add duty factor.
2. If duty cycle ≥98 %, the EUT is consider to be transmitting continuously, the conducted average output power and average power spectral density no need to add duty factor(consider to be zero).
3. The conducted peak output power and peak power spectral density no need to consider duty factor.
4. The on-time time is transmission duration(T).

## 2.9.Channel List

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	1	2404
2	2406	3	2408
4	2410	5	2412
6	2414	7	2416
8	2418	9	2420
10	2422	11	2424
12	2426	13	2428
14	2430	15	2432
16	2434	17	2436
18	2438	19	2440
20	2442	21	2444
22	2446	23	2448
24	2450	25	2452
26	2454	27	2456
28	2458	29	2460
30	2462	31	2464
32	2466	33	2468
34	2470	35	2472
36	2474	37	2476
38	2478	39	2480

## 2.10. Test Equipment List

Equipment List during the test period Jan. 05~25, 2024

For conducted emission test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	EST-E001	LISAI	June 12,23	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E002	LISAI	June 12,23	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

For radiated emission test(9kHz-30MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 12,23	1 Year
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	EST-E054	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
9kHz-30MHz Cable	N/A	EST-001	N/A	N/A	N/A	N/A

For radiated emissions test (30-1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 12,23	1 Year
Bilog Antenna	Teseq	CBL 6111D	EST-E034	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
30-1000MHz Cable	N/A	EST-002	N/A	N/A	N/A	N/A

For radiated emission test(Above 1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK	BBHA9120D	EST-E144	LISAI	June 12,23	1 Year
Horn Antenna	Com-Power	AHA-840	EST-E133	LISAI	June 12,23	1 Year
Low Noise Amplifier	RF	TRLA-010180 G45N	EST-E142	LISAI	June 12,23	1 Year
Spectrum Analyzer	Rohde & Schwarz	FSV40	EST-E069	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
Above 1GHz Cable	N/A	EST-003	N/A	N/A	N/A	N/A

**For connect EUT antenna terminal test**

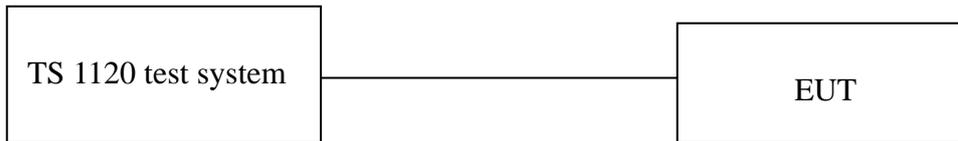
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
TS 1120	Tonscend	/	/	/	/	/
Test Software	Tonscend	TS1120-3	3.3.38	/	/	/
RF Control Unit	Tonscend	JS0806-2	EST-E134	LISAI	June 12,23	1 Year
Signal and Spectrum Analyzer	Keysight	N9010B	EST-E141	LISAI	June 12,23	1 Year

### 3.6dB BANDWIDTH & 99% OCCUPIED BANDWIDTH

#### 3.1.Limit

Systems using digital modulation techniques operate in the 2400-2483.5 MHz,the minimum 6 dB bandwidth shall be at least 500 kHz.

#### 3.2.Test Setup



#### 3.3.Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	100KHz
VBW	300KHz
Span	3MHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

#### 3.4.Test Procedure

**For 6dB Bandwidth Measurement :**

- a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- b. Spectrum analyzer setting parameters in accordance with section 3.3.
- c. Set the EUT transmit continuously with maximum output power.
- d. Allow trace to stabilize, use the ndB down function to measure 6dB Bandwidth.
- e. Repeat above procedures until all channels were measured.
- f. Record the results in the test report.

**For 99% Occupied Bandwidth Measurement:**

- a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- b. Spectrum analyzer setting parameters in accordance with section 3.3.
- c. Set the EUT transmit continuously with maximum output power.
- d. Allow trace to stabilize, use the 99% occupied bandwidth function to measure 6dB Bandwidth.
- e. Repeat above procedures until all channels were measured.
- f. Record the results in the test report.

#### 3.5.Test Result

Refer to section 11: Appendix A & B

## 4. MAXIMUM PEAK OUTPUT POWER

### 4.1. Limit

For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W(30dBm).

### 4.2. Test Setup



### 4.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	$\geq$ DTS Bandwidth
VBW	3*RBW
Span	$\geq$ 3*DTS Bandwidth
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

### 4.4. Test Procedure

- a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- b. Spectrum analyzer setting parameters in accordance with section 4.3.
- c. Set the EUT transmit continuously with maximum output power.
- d. Allow trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission.
- e. Repeat above procedures until all channels were measured.
- f. Record the results in the test report.

### 4.5. Test Result

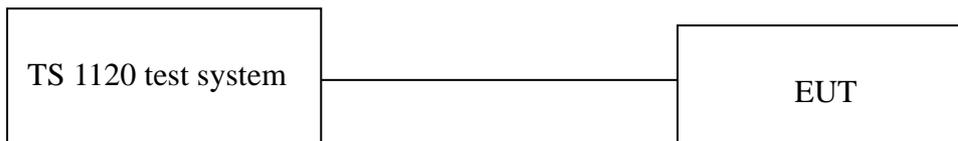
Refer to section 11: Appendix C

## 5. POWER SPECTRAL DENSITY

### 5.1. Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### 5.2. Test Setup



### 5.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	3KHz
VBW	10KHz
Span	2MHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

### 5.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 5.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission.
- Repeat above procedures until all channels were measured.
- Record the results in the test report.

### 5.5. Test Result

Refer to section 11: Appendix D

## 6. CONDUCTED BAND EDGE

### 6.1. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

### 6.2. Test Setup



### 6.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	100KHz
VBW	300KHz
Span	100MHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

### 6.4. Test Procedure

- a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- b. Spectrum analyzer setting parameters in accordance with section 6.3.
- c. Set the EUT transmit continuously with maximum output power.
- d. Allow trace to stabilize, use the marker function to mark the highest emission level outside the authorized band.
- e. Repeat above procedures until all channels were measured.
- f. Record the results in the test report.

### 6.5. Test Result

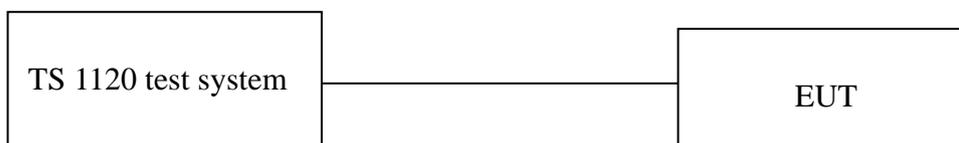
Refer to section 11: Appendix E & F

## 7. CONDUCTED SPURIOUS EMISSIONS

### 7.1. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

### 7.2. Test Setup



### 7.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	100KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	26.5GHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

### 7.4. Test Procedure

- a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- b. Spectrum analyzer setting parameters in accordance with section 7.3.
- c. Set the EUT transmit continuously with maximum output power.
- d. Allow trace to stabilize, use the marker function to mark the highest emission level outside the authorized band.
- e. Repeat above procedures until all channels were measured.
- f. Record the results in the test report.

### 7.5. Test Result

Refer to section 11: Appendix E & G

## 8.RADIATED SPURIOUS EMISSIONS AND BAND EDGE

### 8.1.Limit

Except where otherwise indicated in the applicable RSS, radiated emissions shall comply with the field strength limits shown in below. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter’s fundamental emission.

#### Restricted frequency band

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138	--	

**General field strength limits at frequencies below 30 MHz**

Frequency	Magnetic field strength (H-Field) ( $\mu\text{A/m}$ )	Measurement distance (m)
9 - 490 kHz	$6.37/F$ (F in kHz)	300
490 - 1705 kHz	$63.7/F$ (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

**General field strength limits at frequencies above 30 MHz**

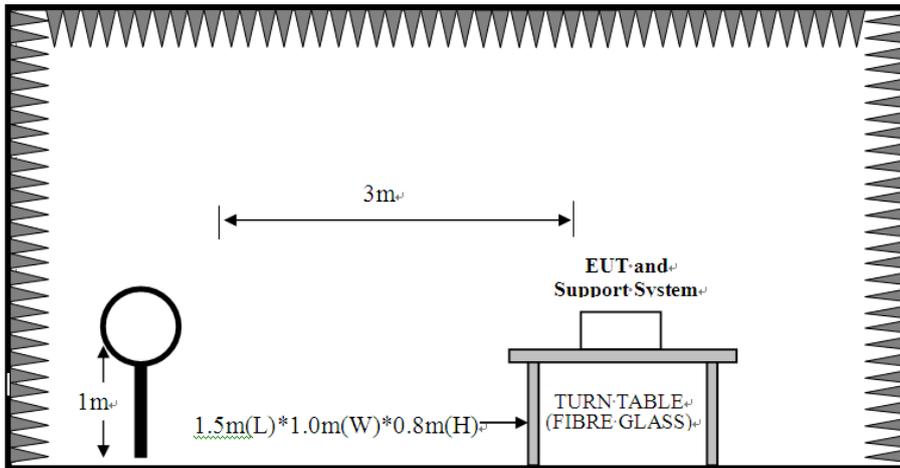
Frequency(MHz)	Field Strength( $\mu\text{V/m}$ at 3 m)
30 - 88	100
88 - 216	150
216 - 960	200
Above 960	500

Note:

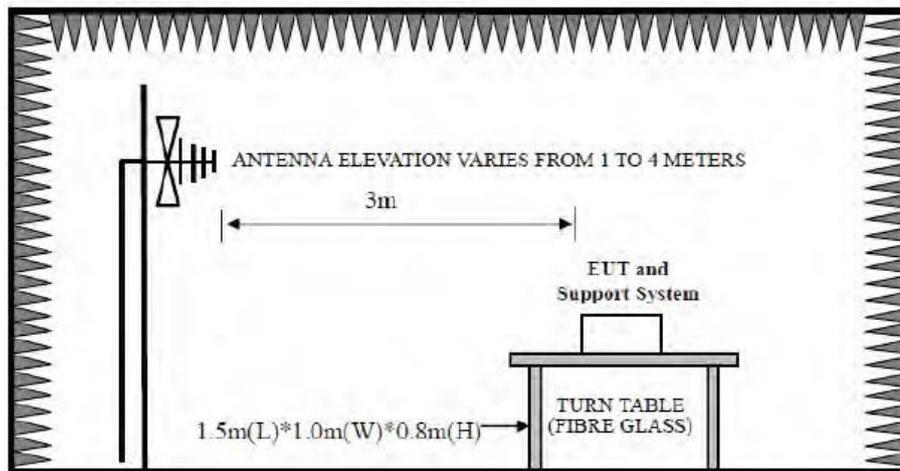
1. Emission level  $\text{dB}\mu\text{V} = 20 \log$  Emission level  $\mu\text{V/m}$ .
2. The smaller limit shall apply at the cross point between two frequency bands.
3. Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

## 8.2. Test Setup

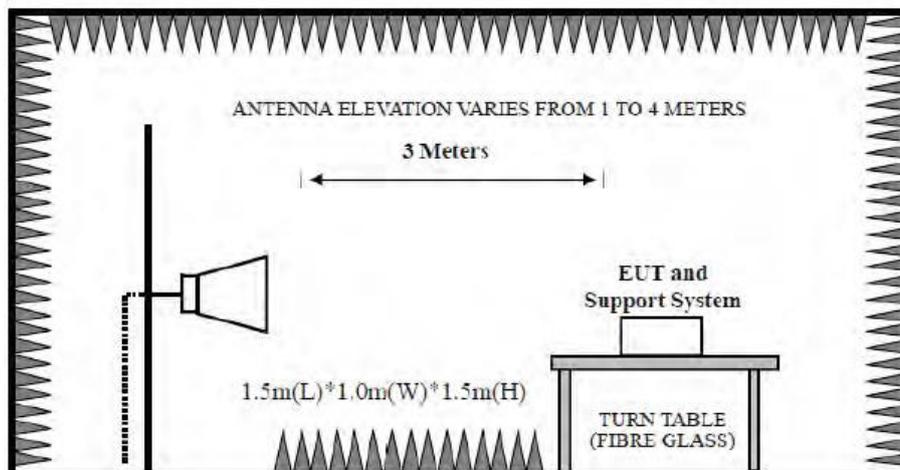
9kHz~30MHz



30~1000MHz



Above 1GHz



### 8.3.Spectrum Analyzer Setting

#### For 9KHz-150KHz

Spectrum Parameters	Setting
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
Start frequency	9KHz
Stop frequency	150KHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

#### For 150KHz-30MHz

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

#### For 30MHz-1GHz

Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

#### For Above 1GHz

Spectrum Parameters	Setting
RBW	1MHz
VBW	PEAK Measurement
	AVG Measurement
	3MHz
	Duty cycle≥98%,VBW=10Hz
	Duty cycle<98%,VBW≥1/T
Start frequency	1GHz
Stop frequency	25GHz
Sweep Time	Auto
Detector	PEAK
Trace Mode	Max Hold

Note :T is the on-time time of the duty cycle,when EUT transmit continuously with maximum output power,unit is seconds. reference section 2.8 for the on-time time.

## 8.4. Test Procedure

- a. EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- c. Set the EUT transmit continuously with maximum output power.
- d. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- e. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- f. Spectrum analyzer setting parameters in accordance with section 8.3.
- g. Repeat above procedures until all channels were measured.
- h. Record the results in the test report.

### Note:

1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
2. The frequency 2402MHz ,2440MHz and 2480MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.
3. ble 1Mbps and ble 2Mbps mode all have been tested, only worse case ble 1Mbps mode is reported.

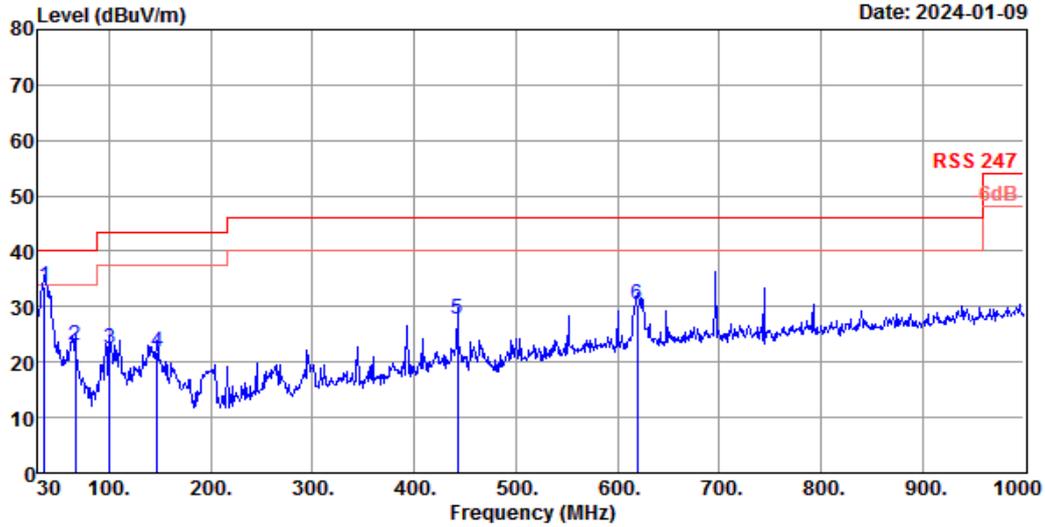
## 8.5. Test Result

### Radiated Emissions Below 1GHz

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Data: 13 File: \\EMC-966-2\test data\2024\RF\TCL Dou Mei Ti\S55H.EM6 (22) Date: 2024-01-09



Site no. : 2# 966 chamber Data no. : 13  
 Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL  
 Limit : RSS 247  
 Env. / Ins. : Temp:21.2°C;Humi:48%;Press:101.32kPa  
 Engineer : LST  
 EUT : 2.1 Channel Dolby Atmos Sound Bar with  
 Wireless Subwoofer  
 Power : AC 120V/60Hz  
 M/N : S55H  
 Test Mode : TX Mode

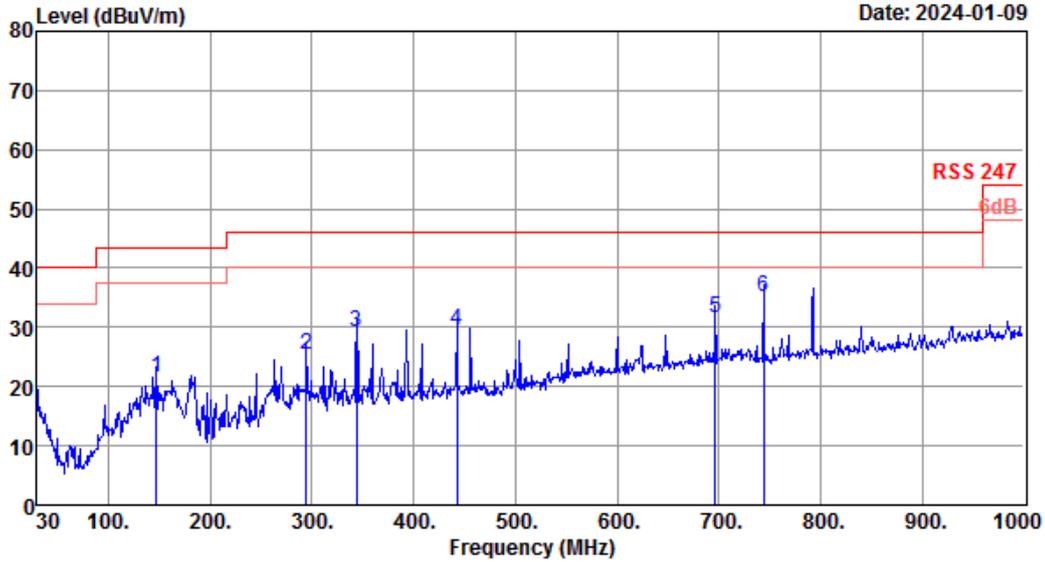
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	36.79	13.85	0.63	19.20	33.68	40.00	6.32	QP
2	66.86	5.94	0.96	16.13	23.03	40.00	16.97	QP
3	100.81	10.20	1.80	10.43	22.43	43.50	21.07	QP
4	147.37	12.02	1.51	8.32	21.85	43.50	21.65	QP
5	442.25	17.22	2.72	7.93	27.87	46.00	18.13	QP
6	619.76	20.90	3.36	6.17	30.43	46.00	15.57	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 14 File: \\EMC-966-2\test data\2024\RF\TCL Dou Mei Ti\S55H.EM6 (22)



Site no. : 2# 966 chamber Data no. : 14  
 Dis. / Ant. : 3m 47018 Ant. pol. : HORIZONTAL  
 Limit : RSS 247  
 Env. / Ins. : Temp:21.2°C;Humi:48%;Press:101.32kPa  
 Engineer : LST  
 EUT : 2.1 Channel Dolby Atmos Sound Bar with  
 Wireless Subwoofer  
 Power : AC 120V/60Hz  
 M/N : S55H  
 Test Mode : TX Mode

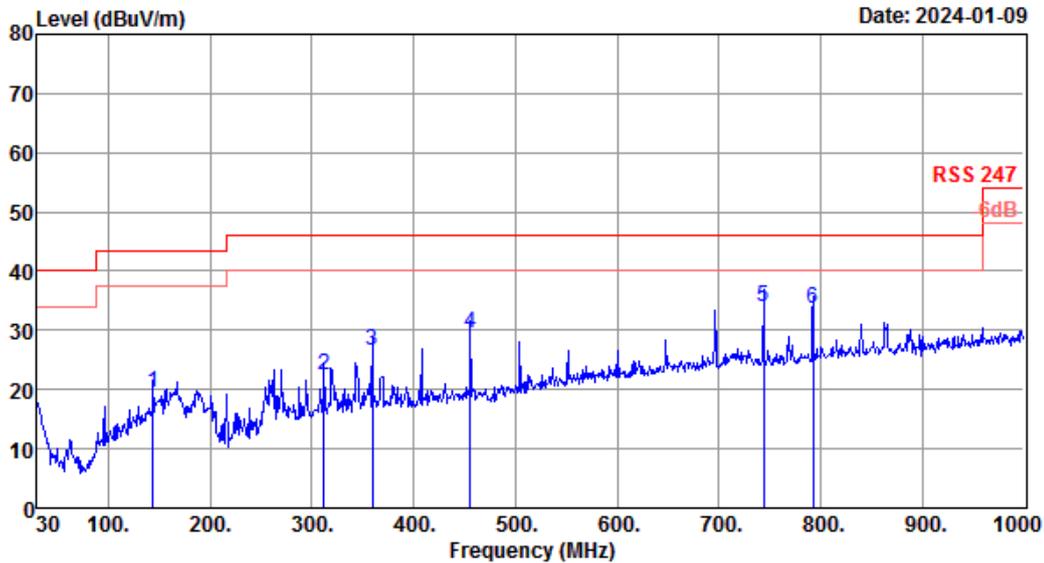
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	147.37	12.02	1.51	7.92	21.45	43.50	22.05	QP
2	294.81	13.90	2.18	9.36	25.44	46.00	20.56	QP
3	344.28	15.24	2.44	11.66	29.34	46.00	16.66	QP
4	442.25	17.22	2.72	9.65	29.59	46.00	16.41	QP
5	696.39	21.90	3.60	6.09	31.59	46.00	14.41	QP
6	743.92	22.18	3.73	9.18	35.09	46.00	10.91	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 15 File: \\EMC-966-2\test data\2024\RF\TCL Dou Mei Ti\S55H.EM6 (22)



Site no. : 2# 966 chamber Data no. : 15  
 Dis. / Ant. : 3m 47018 Ant. pol. : HORIZONTAL  
 Limit : RSS 247  
 Env. / Ins. : Temp:21.2°C;Humi:48%;Press:101.32kPa  
 Engineer : LST  
 EUT : 2.1 Channel Dolby Atmos Sound Bar with  
 Wireless Subwoofer  
 Power : AC 120V/60Hz  
 M/N : S55H  
 Test Mode : RX Mode

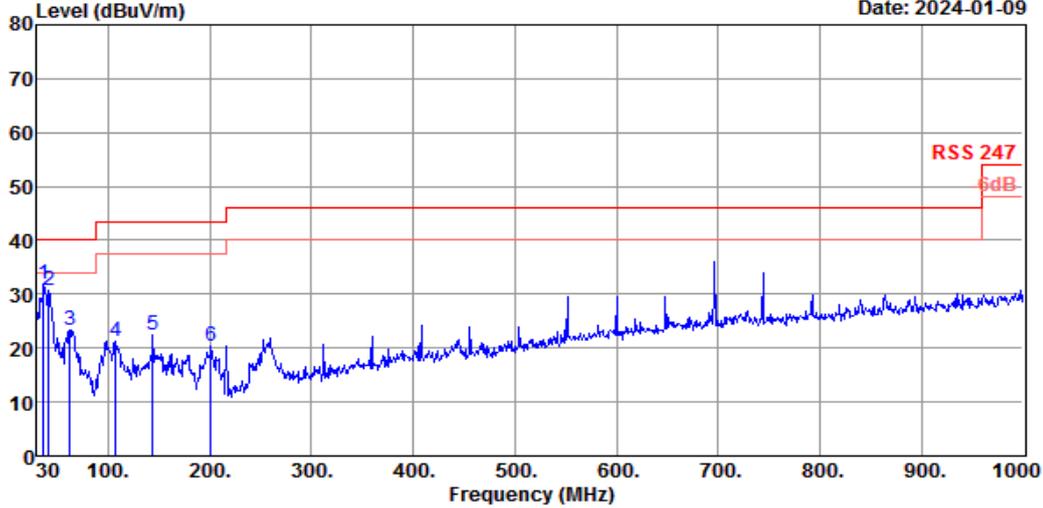
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	143.49	12.40	1.53	5.51	19.44	43.50	24.06	QP
2	312.27	14.22	2.28	6.00	22.50	46.00	23.50	QP
3	359.80	15.80	2.49	8.33	26.62	46.00	19.38	QP
4	455.83	17.48	2.77	9.20	29.45	46.00	16.55	QP
5	743.92	22.18	3.73	8.01	33.92	46.00	12.08	QP
6	792.42	23.12	3.87	6.65	33.64	46.00	12.36	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 16 File: \\EMC-966-2\test data\2024\RF\IT\TCL Dou Mei Ti\S55H.EM6 (22) Date: 2024-01-09



Site no. : 2# 966 chamber Data no. : 16  
 Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL  
 Limit : RSS 247  
 Env. / Ins. : Temp:21.2°C;Humi:48%;Press:101.32kPa  
 Engineer : LST  
 EUT : 2.1 Channel Dolby Atmos Sound Bar with  
 Wireless Subwoofer  
 Power : AC 120V/60Hz  
 M/N : S55H  
 Test Mode : RX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	36.79	13.85	0.63	17.33	31.81	40.00	8.19	QP
2	41.64	11.90	0.67	18.08	30.65	40.00	9.35	QP
3	62.01	5.26	0.93	17.19	23.38	40.00	16.62	QP
4	107.60	10.72	1.76	8.89	21.37	43.50	22.13	QP
5	143.49	12.40	1.53	8.44	22.37	43.50	21.13	QP
6	200.72	8.84	1.73	9.94	20.51	43.50	22.99	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

Note:

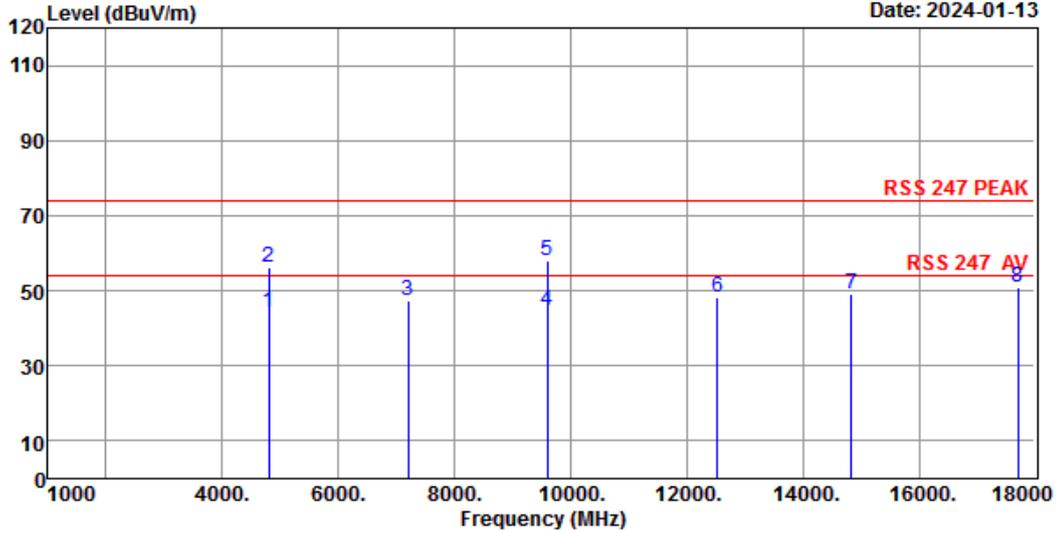
1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All channels had been pre-test, only the worst case was reported.

## Radiated Emissions Above 1G

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Data: 61                      File: \\EMC-966-1\test data\2024\RF\TTC\TCL Dou Mei Ti\S55H.EM6 (96)                      Date: 2024-01-13



```

Site no.       : 1# 966 Chamber           Data no.  : 61
Dis. / Ant.    : 3m  BBHA9120D-2667      Ant. pol.  : HORIZONTAL
Limit         : RSS 247 PEAK
Env. / Ins.    : Temp:19.5°C;Humi:51%;Press:101.52kPa
Engineer      : QQZ
EUT           : 2.1 channel Dolby Atmos soundbar with
                wireless subwoofer
Power         : AC 120V/60Hz
M/N           : S55H
Test Mode     : SRD 1Mbps TX 2402MHz
    
```

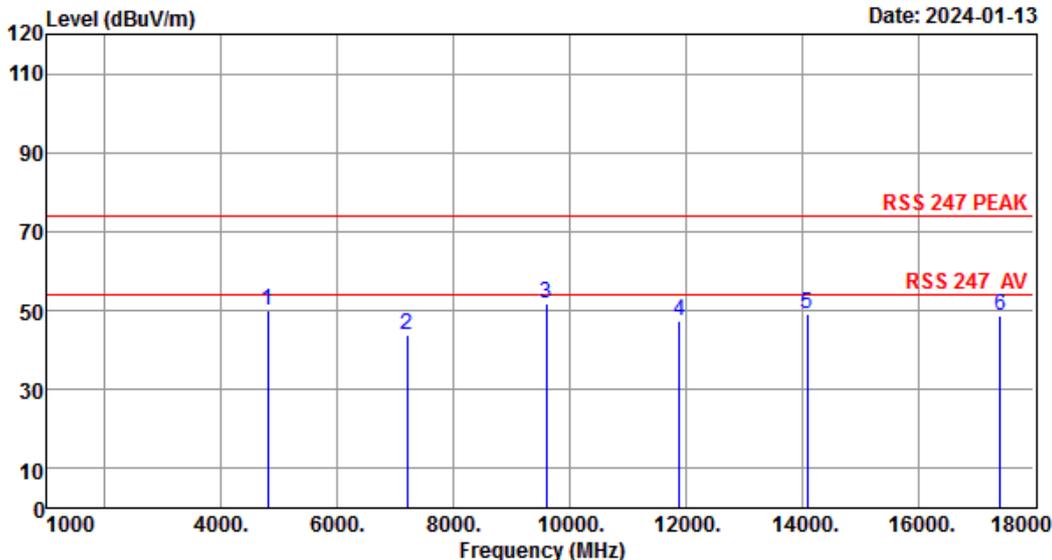
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4804.00	32.39	5.20	44.49	51.10	44.20	54.00	9.80	Average
2	4804.00	32.39	5.20	44.49	63.00	56.10	74.00	17.90	Peak
3	7206.00	36.16	6.67	44.08	48.85	47.60	74.00	26.40	Peak
4	9602.00	38.12	7.77	43.64	42.60	44.85	54.00	9.15	Average
5	9602.00	38.12	7.77	43.64	55.89	58.14	74.00	15.86	Peak
6	12526.00	39.27	9.06	41.46	41.39	48.26	74.00	25.74	Peak
7	14838.00	39.58	10.17	42.88	42.38	49.25	74.00	24.75	Peak
8	17711.00	40.65	12.20	43.13	41.35	51.07	74.00	22.93	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 62 File: \\EMC-966-1\test data\2024\RF\TCL Dou Mei Ti\S55H.EM6 (96)



Site no. : 1# 966 Chamber Data no. : 62  
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL  
 Limit : RSS 247 PEAK  
 Env. / Ins. : Temp:19.5°C;Humi:51%;Press:101.52kPa  
 Engineer : QQZ  
 EUT : 2.1 channel Dolby Atmos soundbar with wireless subwoofer  
 Power : AC 120V/60Hz  
 M/N : S55H  
 Test Mode : SRD 1Mbps TX 2402MHz

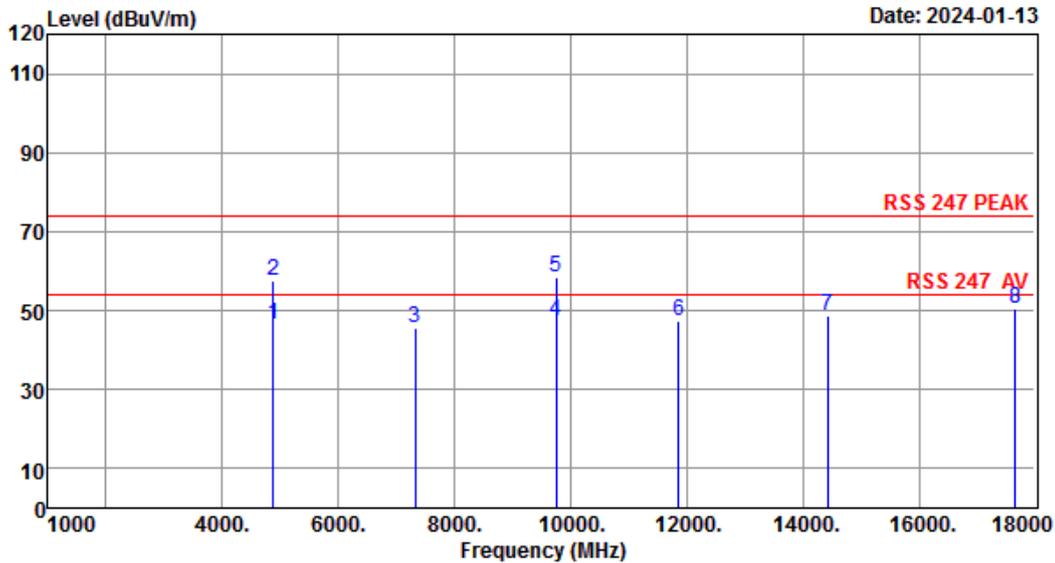
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4804.00	32.39	5.20	44.49	57.03	50.13	74.00	23.87	Peak
2	7206.00	36.16	6.67	44.08	45.19	43.94	74.00	30.06	Peak
3	9602.00	38.12	7.77	43.64	49.35	51.60	74.00	22.40	Peak
4	11897.00	38.81	8.77	42.28	41.96	47.26	74.00	26.74	Peak
5	14090.00	39.96	9.81	41.01	40.21	48.97	74.00	25.03	Peak
6	17422.00	39.69	11.94	43.56	40.76	48.83	74.00	25.17	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 65 File: \\EMC-966-1\test data\2024\RF\TCL Dou Mei Ti\S55H.EM6 (96)



Site no. : 1# 966 Chamber Data no. : 65  
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL  
 Limit : RSS 247 PEAK  
 Env. / Ins. : Temp:19.5°C;Humi:51%;Press:101.52kPa  
 Engineer : QQZ  
 EUT : 2.1 channel Dolby Atmos soundbar with wireless subwoofer  
 Power : AC 120V/60Hz  
 M/N : S55H  
 Test Mode : SRD 1Mbps TX 2440MHz

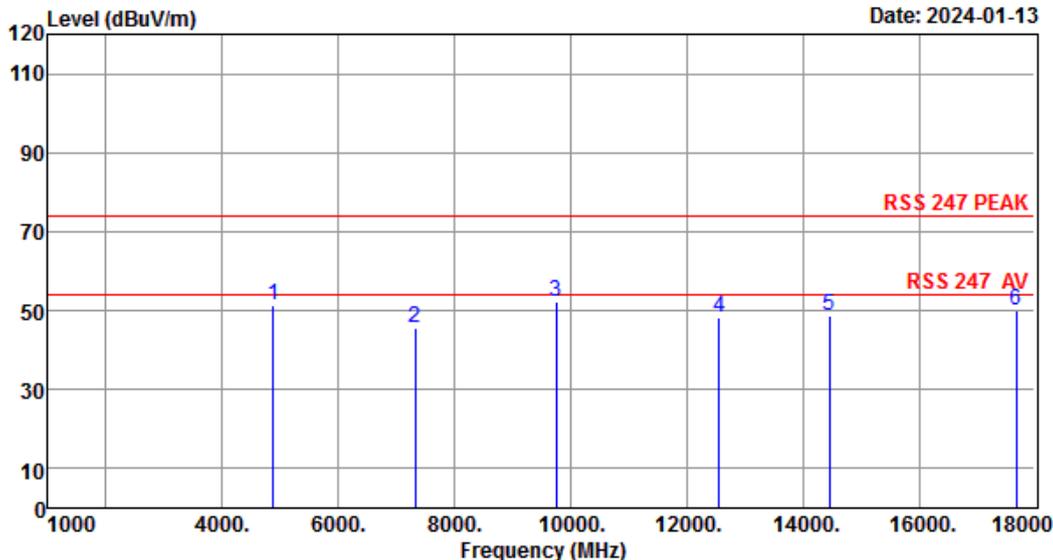
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4880.00	32.55	5.28	44.42	53.20	46.61	54.00	7.39	Average
2	4880.00	32.55	5.28	44.42	64.04	57.45	74.00	16.55	Peak
3	7320.00	36.26	6.70	44.07	46.57	45.46	74.00	28.54	Peak
4	9755.00	38.15	7.77	43.70	45.20	47.42	54.00	6.58	Average
5	9755.00	38.15	7.77	43.70	56.15	58.37	74.00	15.63	Peak
6	11863.00	38.81	8.75	42.31	41.99	47.24	74.00	26.76	Peak
7	14430.00	39.78	9.97	41.86	40.79	48.68	74.00	25.32	Peak
8	17660.00	40.48	12.15	43.21	40.91	50.33	74.00	23.67	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 66 File: \\EMC-966-1\test data\2024\RF\TCL Dou Mei Ti\S55H.EM6 (96)



Site no. : 1# 966 Chamber Data no. : 66  
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL  
 Limit : RSS 247 PEAK  
 Env. / Ins. : Temp:19.5°C;Humi:51%;Press:101.52kPa  
 Engineer : QQZ  
 EUT : 2.1 channel Dolby Atmos soundbar with wireless subwoofer  
 Power : AC 120V/60Hz  
 M/N : S55H  
 Test Mode : SRD 1Mbps TX 2440MHz

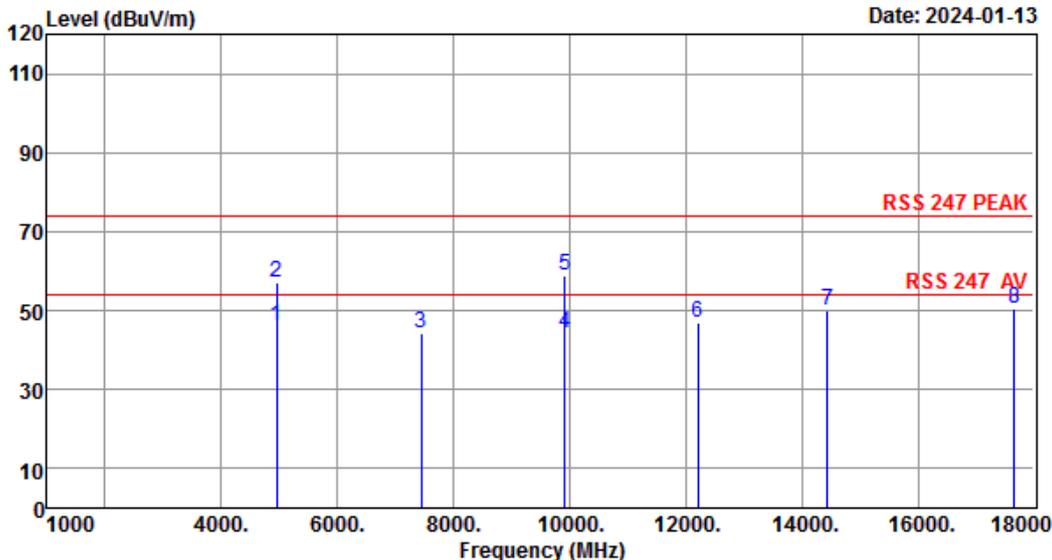
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4880.00	32.55	5.28	44.42	57.84	51.25	74.00	22.75	Peak
2	7320.00	36.26	6.70	44.07	46.74	45.63	74.00	28.37	Peak
3	9755.00	38.15	7.77	43.70	50.24	52.46	74.00	21.54	Peak
4	12560.00	39.30	9.07	41.42	41.11	48.06	74.00	25.94	Peak
5	14464.00	39.77	9.99	41.94	40.92	48.74	74.00	25.26	Peak
6	17677.00	40.53	12.17	43.18	40.61	50.13	74.00	23.87	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 67 File: \\EMC-966-1\test data\2024\RF\TCL Dou Mei Ti\S55H.EM6 (96)



Site no. : 1# 966 Chamber Data no. : 67  
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL  
 Limit : RSS 247 PEAK  
 Env. / Ins. : Temp:19.5°C;Humi:51%;Press:101.52kPa  
 Engineer : QQZ  
 EUT : 2.1 channel Dolby Atmos soundbar with wireless subwoofer  
 Power : AC 120V/60Hz  
 M/N : S55H  
 Test Mode : SRD 1Mbps TX 2480MHz

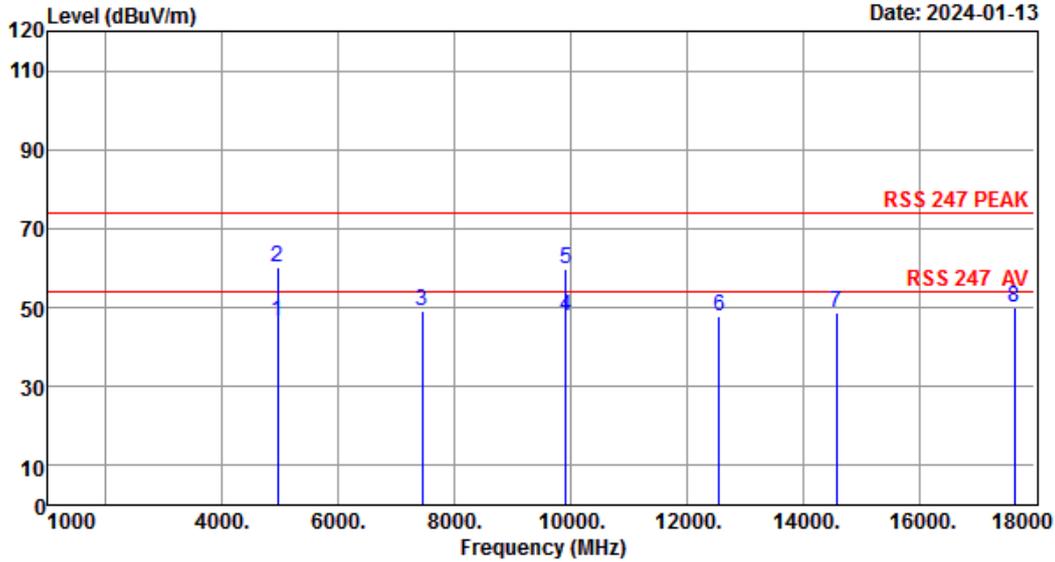
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4960.00	32.72	5.37	44.33	52.29	46.05	54.00	7.95	Average
2	4960.00	32.72	5.37	44.33	63.35	57.11	74.00	16.89	Peak
3	7440.00	36.35	6.74	44.06	45.29	44.32	74.00	29.68	Peak
4	9925.00	38.19	7.77	43.77	42.29	44.48	54.00	9.52	Average
5	9925.00	38.19	7.77	43.77	56.51	58.70	74.00	15.30	Peak
6	12203.00	38.98	8.92	41.92	40.79	46.77	74.00	27.23	Peak
7	14447.00	39.78	9.98	41.90	41.97	49.83	74.00	24.17	Peak
8	17660.00	40.48	12.15	43.21	41.07	50.49	74.00	23.51	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 68 File: \\EMC-966-1\test data\2024\RF\TCL Dou Mei Ti\S55H.EM6 (96)



Site no. : 1# 966 Chamber Data no. : 68  
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL  
 Limit : RSS 247 PEAK  
 Env. / Ins. : Temp:19.5°C;Humi:51%;Press:101.52kPa  
 Engineer : QQZ  
 EUT : 2.1 channel Dolby Atmos soundbar with wireless subwoofer  
 Power : AC 120V/60Hz  
 M/N : S55H  
 Test Mode : SRD 1Mbps TX 2480MHz

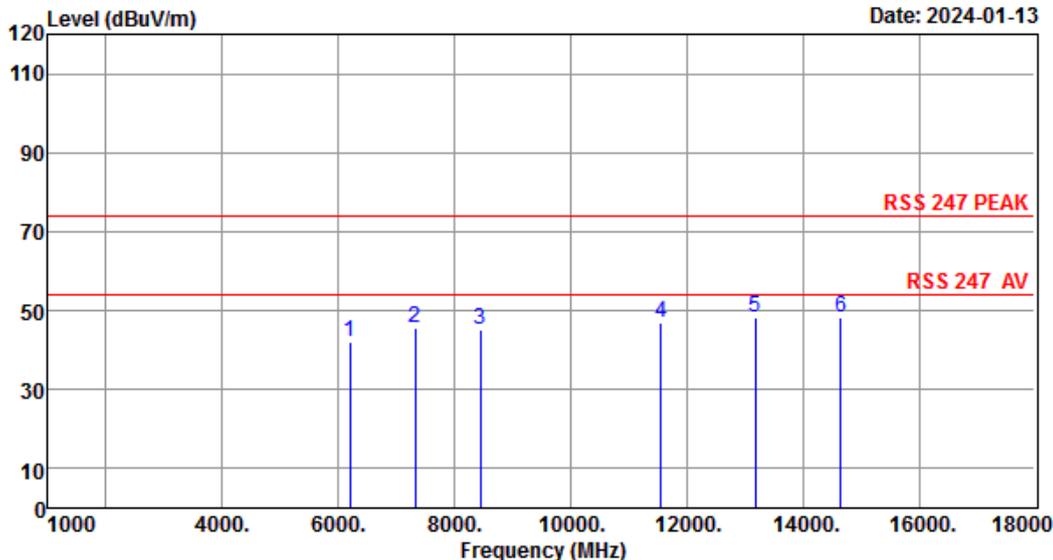
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4960.00	32.72	5.37	44.33	52.59	46.35	54.00	7.65	Average
2	4960.00	32.72	5.37	44.33	66.40	60.16	74.00	13.84	Peak
3	7440.00	36.35	6.74	44.06	50.28	49.31	74.00	24.69	Peak
4	9925.00	38.19	7.77	43.77	45.68	47.87	54.00	6.13	Average
5	9925.00	38.19	7.77	43.77	57.65	59.84	74.00	14.16	Peak
6	12560.00	39.30	9.07	41.42	40.85	47.80	74.00	26.20	Peak
7	14583.00	39.71	10.05	42.24	41.08	48.60	74.00	25.40	Peak
8	17643.00	40.42	12.14	43.23	40.70	50.03	74.00	23.97	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

# EST Technology

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Data: 71 File: \\EMC-966-1\test data\2024\RF\TCL Dou Mei Ti\S55H.EM6 (96)



Site no. : 1# 966 Chamber Data no. : 71  
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL  
 Limit : RSS 247 PEAK  
 Env. / Ins. : Temp:19.5°C;Humi:51%;Press:101.52kPa  
 Engineer : QQZ  
 EUT : 2.1 channel Dolby Atmos soundbar with wireless subwoofer  
 Power : AC 120V/60Hz  
 M/N : S55H  
 Test Mode : RX Mode

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	6202.00	34.32	6.25	44.10	45.45	41.92	74.00	32.08	Peak
2	7324.00	36.26	6.70	44.07	46.57	45.46	74.00	28.54	Peak
3	8446.00	37.34	7.30	43.74	44.42	45.32	74.00	28.68	Peak
4	11557.00	38.84	8.58	42.55	42.06	46.93	74.00	27.07	Peak
5	13189.00	39.76	9.36	40.80	40.13	48.45	74.00	25.55	Peak
6	14651.00	39.67	10.08	42.41	40.80	48.14	74.00	25.86	Peak

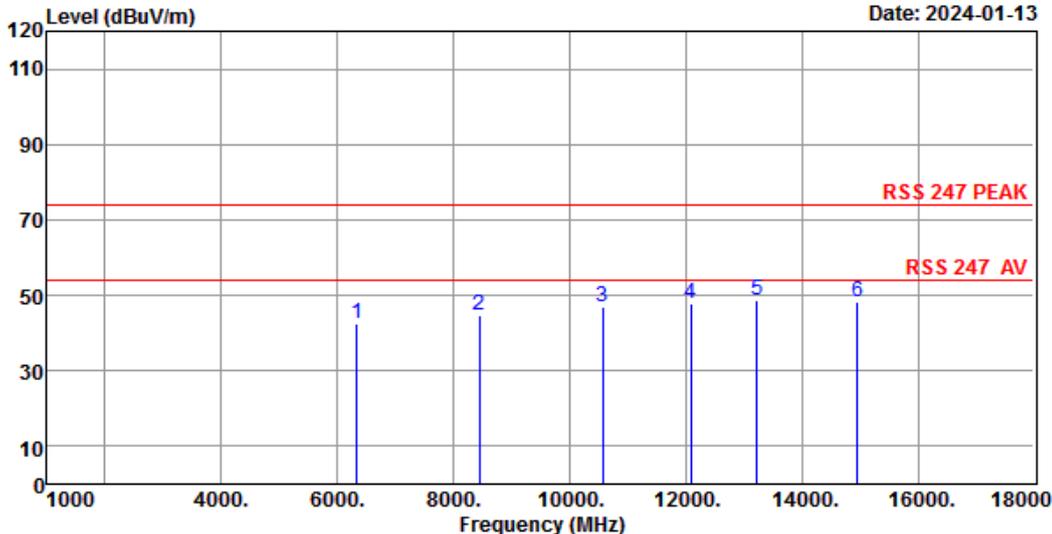
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 72 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\S55H.EM6 (96)

Date: 2024-01-13



Site no. : 1# 966 Chamber Data no. : 72  
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL  
 Limit : RSS 247 PEAK  
 Env. / Ins. : Temp:19.5°C;Humi:51%;Press:101.52kPa  
 Engineer : QQZ  
 EUT : 2.1 channel Dolby Atmos soundbar with wireless subwoofer  
 Power : AC 120V/60Hz  
 M/N : S55H  
 Test Mode : RX Mode

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	6338.00	34.61	6.31	44.10	45.90	42.72	74.00	31.28	Peak
2	8446.00	37.34	7.30	43.74	43.90	44.80	74.00	29.20	Peak
3	10571.00	38.60	8.05	43.34	43.62	46.93	74.00	27.07	Peak
4	12084.00	38.88	8.87	42.08	42.08	47.75	74.00	26.25	Peak
5	13223.00	39.77	9.37	40.80	40.19	48.53	74.00	25.47	Peak
6	14957.00	39.52	10.23	43.17	41.50	48.08	74.00	25.92	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

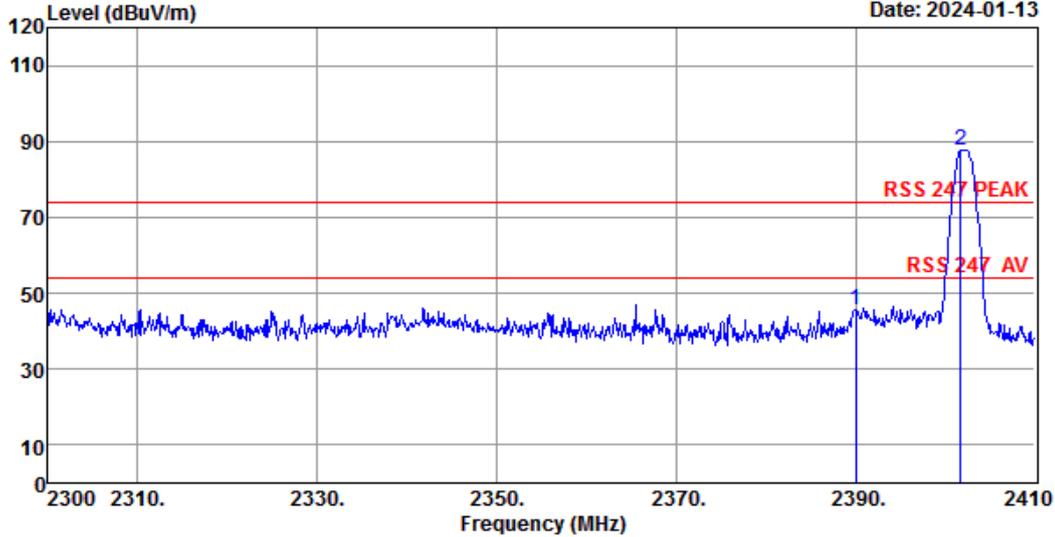
Note: The amplitude of 18GHz to 25GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

### Radiated Band Edge

EST Technology

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Data: 63 File: \\EMC-966-1\test data\2024\RF\TCL Dou Mei Ti\S55H.EM6 (96) Date: 2024-01-13



Site no. : 1# 966 Chamber Data no. : 63  
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL  
 Limit : RSS 247 PEAK  
 Env. / Ins. : Temp:19.5°C;Humi:51%;Press:101.52kPa  
 Engineer : QQZ  
 EUT : 2.1 channel Dolby Atmos soundbar with wireless subwoofer  
 Power : AC 120V/60Hz  
 M/N : S55H  
 Test Mode : SRD 1Mbps TX 2402MHz

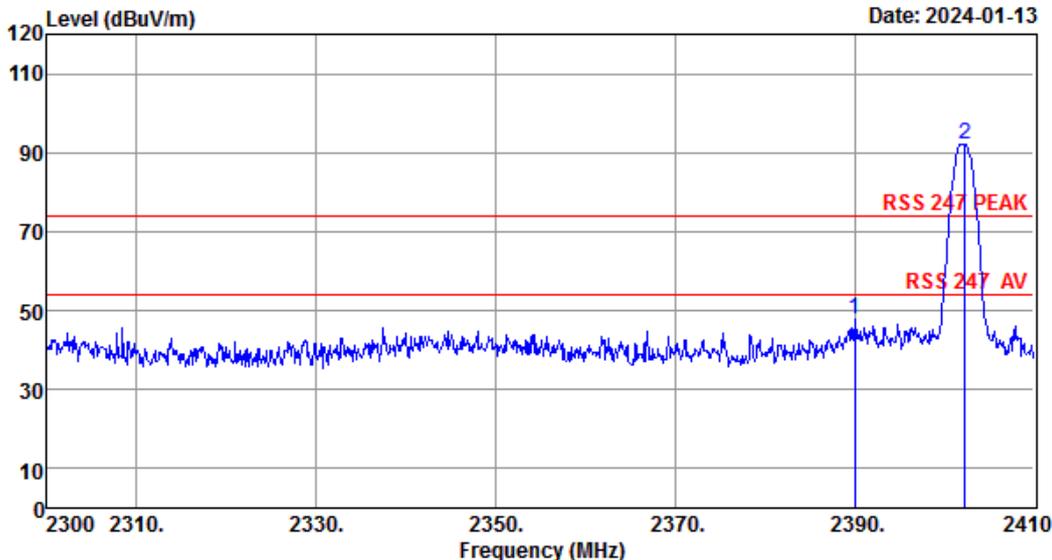
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.43	3.55	45.01	59.55	45.52	74.00	28.48	Peak
2	2401.75	27.47	3.55	45.01	101.83	87.84	74.00	-13.84	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 64 File: \\EMC-966-1\test data\2024\RF\TCL Dou Mei Ti\S55H.EM6 (96)



Site no. : 1# 966 Chamber Data no. : 64  
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL  
 Limit : RSS 247 PEAK  
 Env. / Ins. : Temp:19.5°C;Humi:51%;Press:101.52kPa  
 Engineer : QQZ  
 EUT : 2.1 channel Dolby Atmos soundbar with wireless subwoofer  
 Power : AC 120V/60Hz  
 M/N : S55H  
 Test Mode : SRD 1Mbps TX 2402MHz

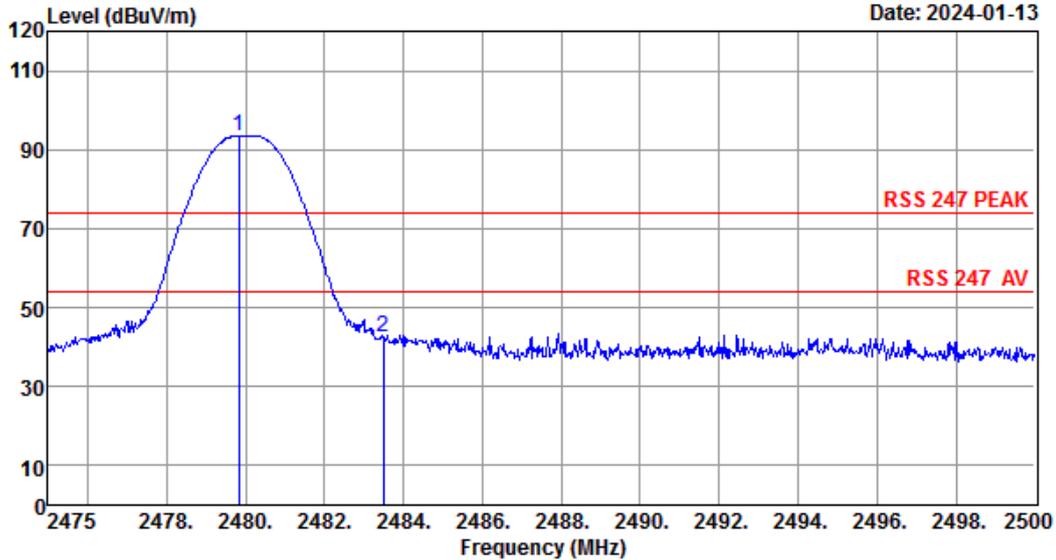
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.43	3.55	45.01	62.03	48.00	74.00	26.00	Peak
2	2402.30	27.47	3.55	45.01	106.03	92.04	74.00	-18.04	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 69 File: \\EMC-966-1\test data\2024\RF\TCL Dou Mei Ti\S55H.EM6 (96) Date: 2024-01-13



Site no. : 1# 966 Chamber Data no. : 69  
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL  
 Limit : RSS 247 PEAK  
 Env. / Ins. : Temp:19.5°C;Humi:51%;Press:101.52kPa  
 Engineer : QQZ  
 EUT : 2.1 channel Dolby Atmos soundbar with wireless subwoofer  
 Power : AC 120V/60Hz  
 M/N : S55H  
 Test Mode : SRD 1Mbps TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.83	27.69	3.62	44.93	107.12	93.50	74.00	-19.50	Peak
2	2483.50	27.70	3.62	44.93	56.08	42.47	74.00	31.53	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

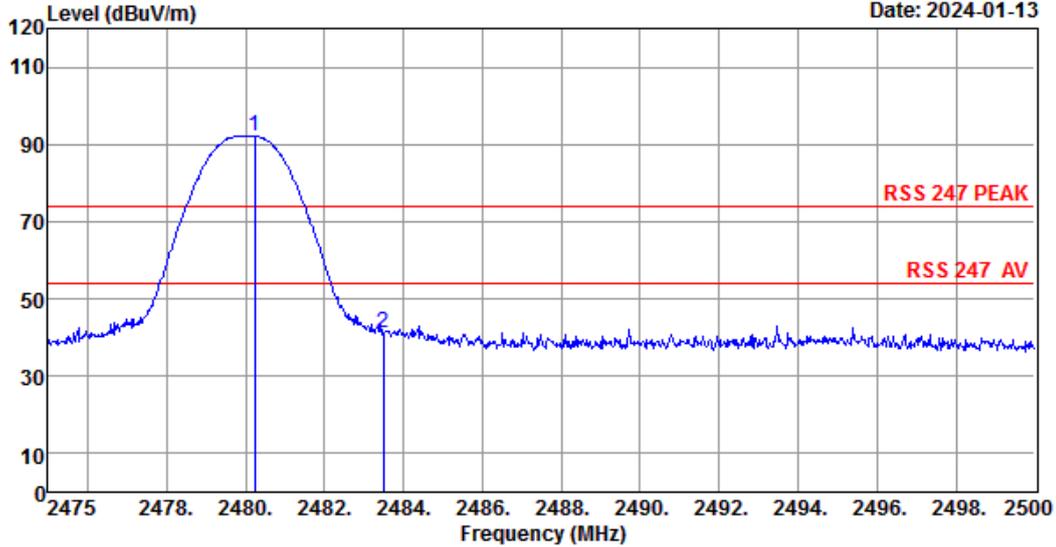
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Data: 70

File: \\EMC-966-1\test data\2024\RFIT\TCL Dou Mei Ti\S55H.EM6 (96)

Date: 2024-01-13



Site no. : 1# 966 Chamber                      Data no. : 70  
 Dis. / Ant. : 3m BBHA9120D-2667              Ant. pol. : VERTICAL  
 Limit : RSS 247 PEAK  
 Env. / Ins. : Temp:19.5°C;Humi:51%;Press:101.52kPa  
 Engineer : QQZ  
 EUT : 2.1 channel Dolby Atmos soundbar with  
          wireless subwoofer  
 Power : AC 120V/60Hz  
 M/N : S55H  
 Test Mode : SRD 1Mbps TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.23	27.69	3.62	44.93	105.66	92.04	74.00	-18.04	Peak
2	2483.50	27.70	3.62	44.93	54.93	41.32	74.00	32.68	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

Note: All channels had been pre-test, only of the worst case channels were reported.

## 9.AC POWER LINE CONDUCTED EMISSIONS

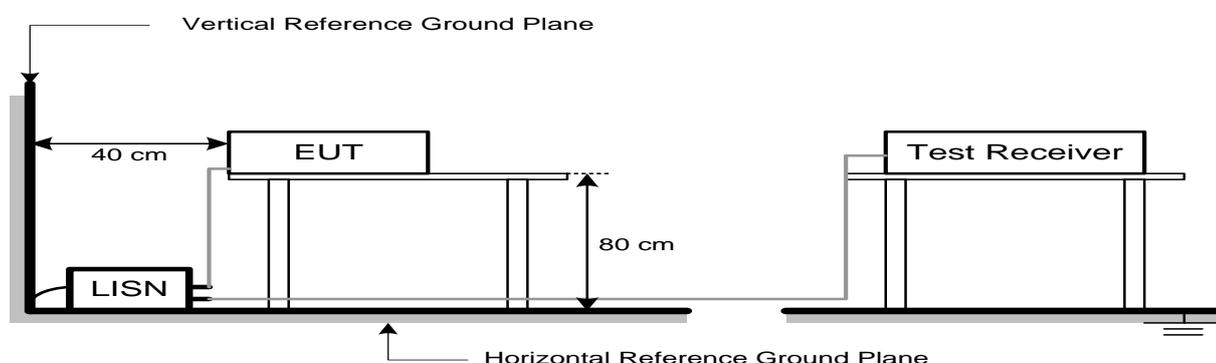
### 9.1.Limit

Frequency (MHz)	Conducted limit(dB $\mu$ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5	56	46
5 - 30	60	50

Note:

1. \* Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

### 9.2.Test Setup



### 9.3.Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP/AVG
Trace Mode	Max Hold

### 9.4.Test Procedure

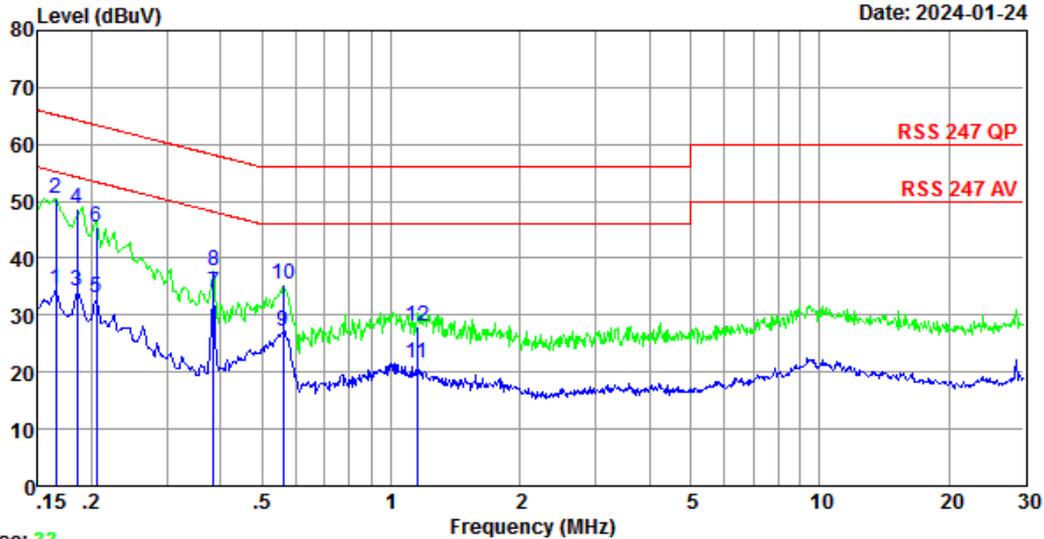
- a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.
- e. Spectrum analyzer setting parameters in accordance with section 9.3.
- f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.
- g. Record the results in the test report.

## 9.5. Test Result

EST Technology

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Data: 66 File: \\EMC-CE-2\Test Data\2024\RF\TTC\TCL Duo Mei Ti\TCL Duo Mei Ti.EM6 (68) Date: 2024-01-24



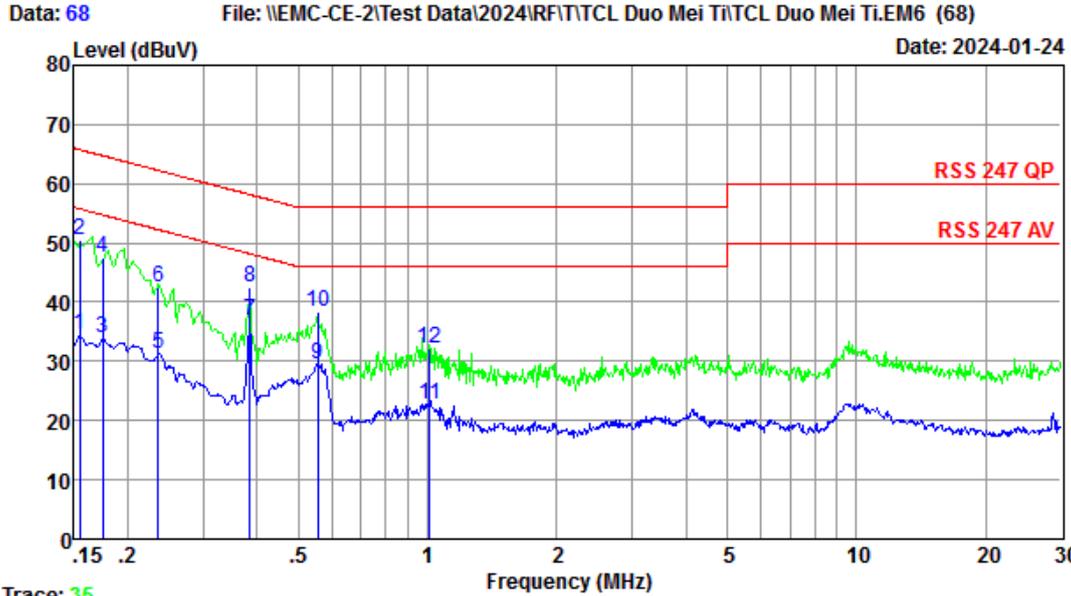
Trace: 33  
 Site no : 2#CE Shield Room Data no. : 66  
 Env. / Ins. : Temp:22.8°C Humi:49% Press:101.40kPa LINE Phase : NEUTRAL  
 Limit : RSS 247 QP  
 Engineer : ZSX  
 EUT : 2.1 Channel Dolby Atmos Soundbar with Wireless Subwoofer  
 Power : AC 120V/60Hz  
 M/N : S55H  
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	10.22	9.89	14.38	34.49	55.21	20.72	Average
2	0.17	10.22	9.89	30.31	50.42	65.21	14.79	QP
3	0.19	10.14	9.93	14.04	34.11	54.24	20.13	Average
4	0.19	10.14	9.93	28.60	48.67	64.24	15.57	QP
5	0.21	10.15	9.94	12.89	32.98	53.40	20.42	Average
6	0.21	10.15	9.94	25.31	45.40	63.40	18.00	QP
7	0.39	10.06	9.90	13.99	33.95	48.17	14.22	Average
8	0.39	10.06	9.90	17.71	37.67	58.17	20.50	QP
9	0.56	9.99	9.95	7.19	27.13	46.00	18.87	Average
10	0.56	9.99	9.95	15.61	35.55	56.00	20.45	QP
11	1.15	9.99	10.04	1.52	21.55	46.00	24.45	Average
12	1.15	9.99	10.04	8.10	28.13	56.00	27.87	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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Trace: 35  
 Site no : 2#CE Shield Room Data no. : 68  
 Env. / Ins. : Temp:22.8°C Humi:49% Press:101.40kPa LINE Phase : LINE  
 Limit : RSS 247 QP  
 Engineer : ZSX  
 EUT : 2.1 Channel Dolby Atmos Soundbar with Wireless Subwoofer  
 Power : AC 120V/60Hz  
 M/N : S55H  
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	10.12	9.89	14.44	34.45	55.74	21.29	Average
2	0.15	10.12	9.89	30.40	50.41	65.74	15.33	QP
3	0.17	10.16	9.93	13.91	34.00	54.72	20.72	Average
4	0.17	10.16	9.93	27.50	47.59	64.72	17.13	QP
5	0.24	10.15	9.95	11.16	31.26	52.26	21.00	Average
6	0.24	10.15	9.95	22.50	42.60	62.26	19.66	QP
7	0.39	10.10	9.90	16.87	36.87	48.17	11.30	Average
8	0.39	10.10	9.90	22.51	42.51	58.17	15.66	QP
9	0.56	10.06	9.95	9.56	29.57	46.00	16.43	Average
10	0.56	10.06	9.95	18.51	38.52	56.00	17.48	QP
11	1.01	9.97	10.05	2.84	22.86	46.00	23.14	Average
12	1.01	9.97	10.05	12.21	32.23	56.00	23.77	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

## 10. TRANSMIT ANTENNA

### 10.1. Limit

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

*This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.*

### 10.2. Test Result

All antennas are listed in section 1.2. And the antennas used for this product is internal antenna, So the notice does not need to be displayed in the user manual.

## 11.APPENDIX

### Appendix A: DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD_1M	Ant1	2402	0.714	2401.640	2402.354	0.5	PASS
SRD_1M	Ant1	2440	0.714	2439.640	2440.354	0.5	PASS
SRD_1M	Ant1	2480	0.696	2479.655	2480.351	0.5	PASS
SRD_2M	Ant1	2402	1.320	2401.328	2402.648	0.5	PASS
SRD_2M	Ant1	2440	1.170	2439.436	2440.606	0.5	PASS
SRD_2M	Ant1	2480	1.188	2479.412	2480.600	0.5	PASS

### Test Graphs

SRD\_1M-Ant1-2402-PASS



SRD\_1M-Ant1-2440-PASS



SRD\_1M-Ant1-2480-PASS



### SRD\_2M-Ant1-2402-PASS



### SRD\_2M-Ant1-2440-PASS



### SRD\_2M-Ant1-2480-PASS

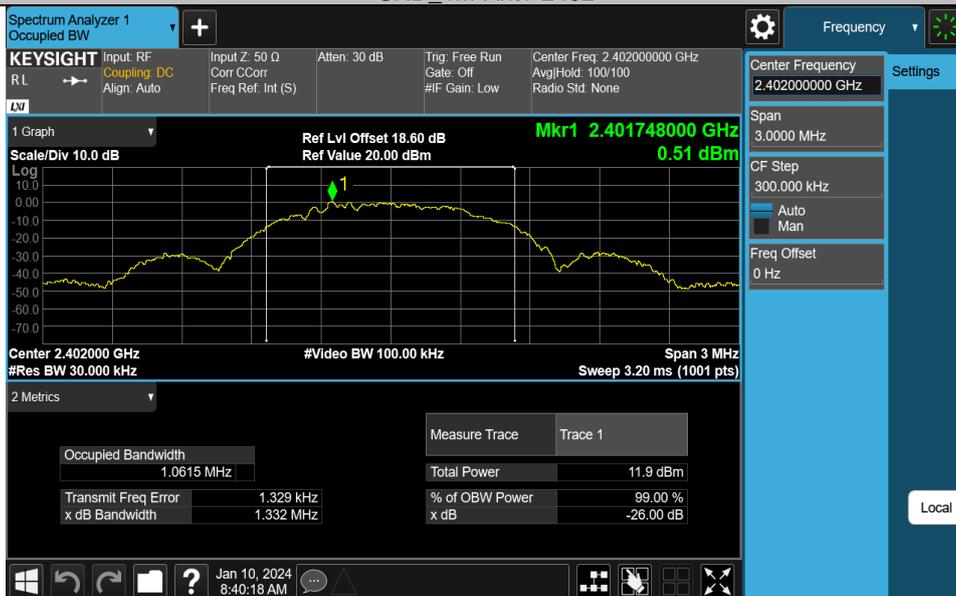


## Appendix B: Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD_1M	Ant1	2402	1.0615	2401.4706	2402.5321	---	---
SRD_1M	Ant1	2440	1.0597	2439.4745	2440.5342	---	---
SRD_1M	Ant1	2480	1.0614	2479.4687	2480.5301	---	---
SRD_2M	Ant1	2402	2.0739	2400.9691	2403.0430	---	---
SRD_2M	Ant1	2440	2.0736	2438.9743	2441.0479	---	---
SRD_2M	Ant1	2480	2.0721	2478.9699	2481.0420	---	---

### Test Graphs

#### SRD\_1M-Ant1-2402



#### SRD\_1M-Ant1-2440



#### SRD\_1M-Ant1-2480



### SRD\_2M-Ant1-2402



### SRD\_2M-Ant1-2440



### SRD\_2M-Ant1-2480



### Appendix C: Maximum conducted output power Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Gain [dBi]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
SRD_1M	Ant1	2402	5.62	≤30	2.91	8.54	≤36	PASS
SRD_1M	Ant1	2440	5.25	≤30	2.91	8.16	≤36	PASS
SRD_1M	Ant1	2480	5.22	≤30	2.91	8.13	≤36	PASS
SRD_2M	Ant1	2402	5.64	≤30	2.91	8.55	≤36	PASS
SRD_2M	Ant1	2440	5.28	≤30	2.91	8.19	≤36	PASS
SRD_2M	Ant1	2480	5.18	≤30	2.91	8.09	≤36	PASS

### Test Graphs Peak

#### SRD\_1M-Ant1-2402-PASS



#### SRD\_1M-Ant1-2440-PASS



#### SRD\_1M-Ant1-2480-PASS



### SRD\_2M-Ant1-2402-PASS



### SRD\_2M-Ant1-2440-PASS



### SRD\_2M-Ant1-2480-PASS



## Appendix D: Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
SRD_1M	Ant1	2402	-10.04	≤8.00	PASS
SRD_1M	Ant1	2440	-10.56	≤8.00	PASS
SRD_1M	Ant1	2480	-10.57	≤8.00	PASS
SRD_2M	Ant1	2402	-13.44	≤8.00	PASS
SRD_2M	Ant1	2440	-13.82	≤8.00	PASS
SRD_2M	Ant1	2480	-13.96	≤8.00	PASS

### Test Graphs

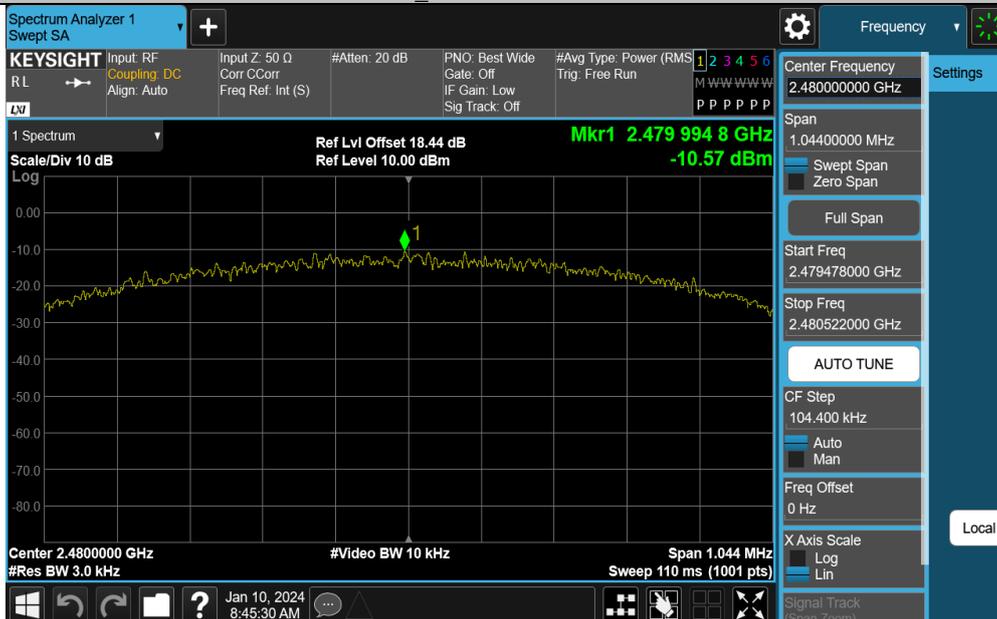
#### SRD\_1M-Ant1-2402-PASS



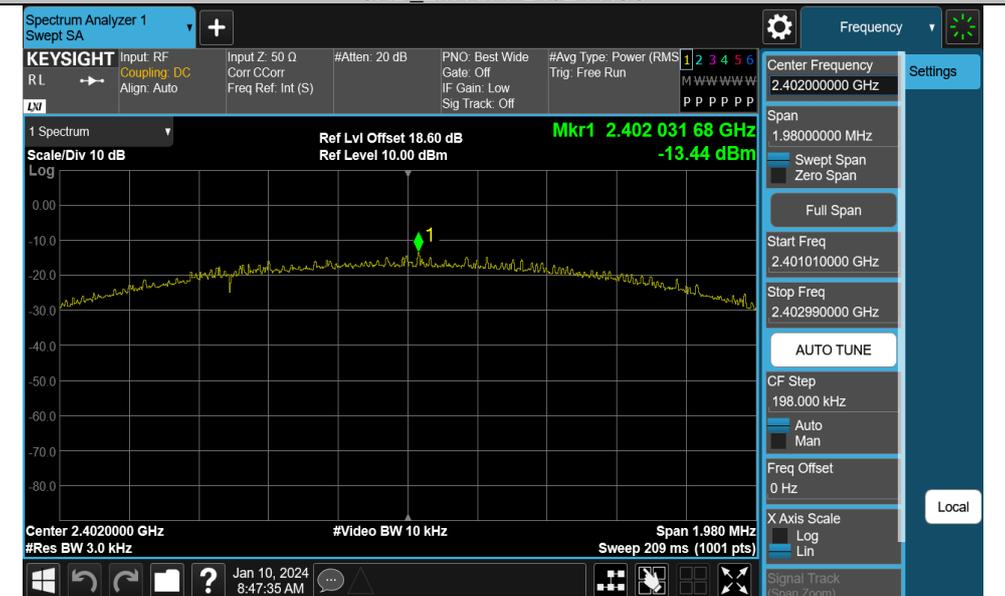
#### SRD\_1M-Ant1-2440-PASS



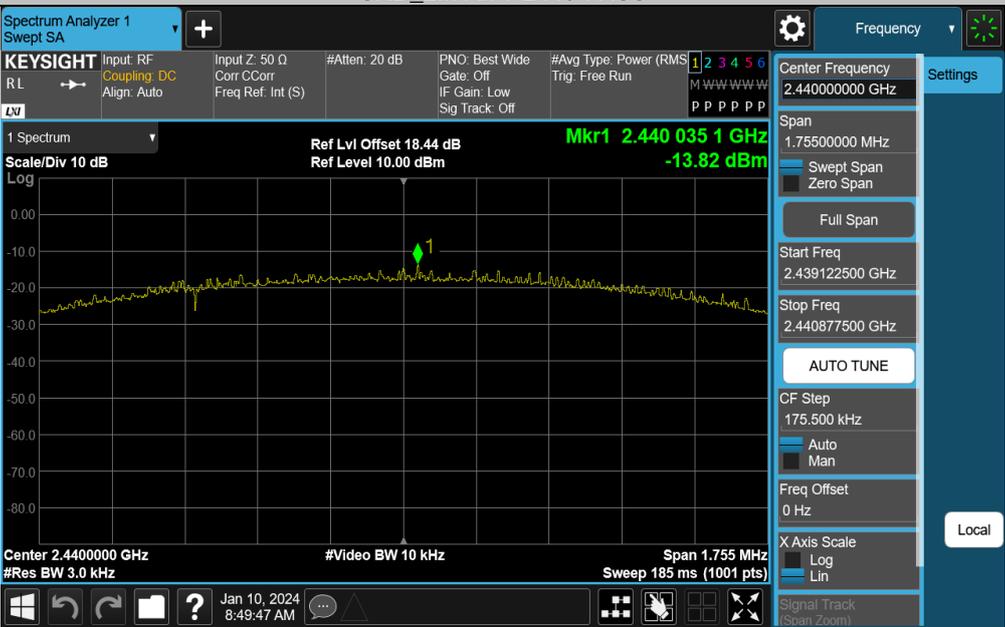
#### SRD\_1M-Ant1-2480-PASS



### SRD\_2M-Ant1-2402-PASS



### SRD\_2M-Ant1-2440-PASS



### SRD\_2M-Ant1-2480-PASS



## Appendix E: Reference level measurement

## Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
SRD_1M	Ant1	2402	2402.24	4.53
SRD_1M	Ant1	2440	2440.00	4.18
SRD_1M	Ant1	2480	2480.01	4.10
SRD_2M	Ant1	2402	2401.48	3.60
SRD_2M	Ant1	2440	2440.01	3.43
SRD_2M	Ant1	2480	2480.00	3.30

## Test Graphs

## SRD\_1M-Ant1-2402-PASS



## SRD\_1M-Ant1-2440-PASS



## SRD\_1M-Ant1-2480-PASS



### SRD\_2M-Ant1-2402-PASS



### SRD\_2M-Ant1-2440-PASS



### SRD\_2M-Ant1-2480-PASS



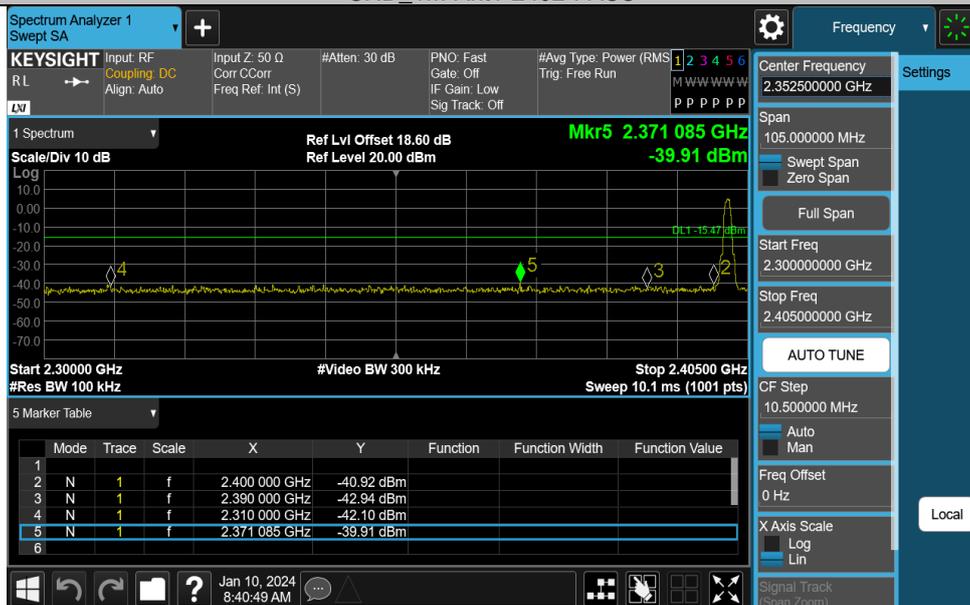
## Appendix F: Band edge measurements

## Test Result

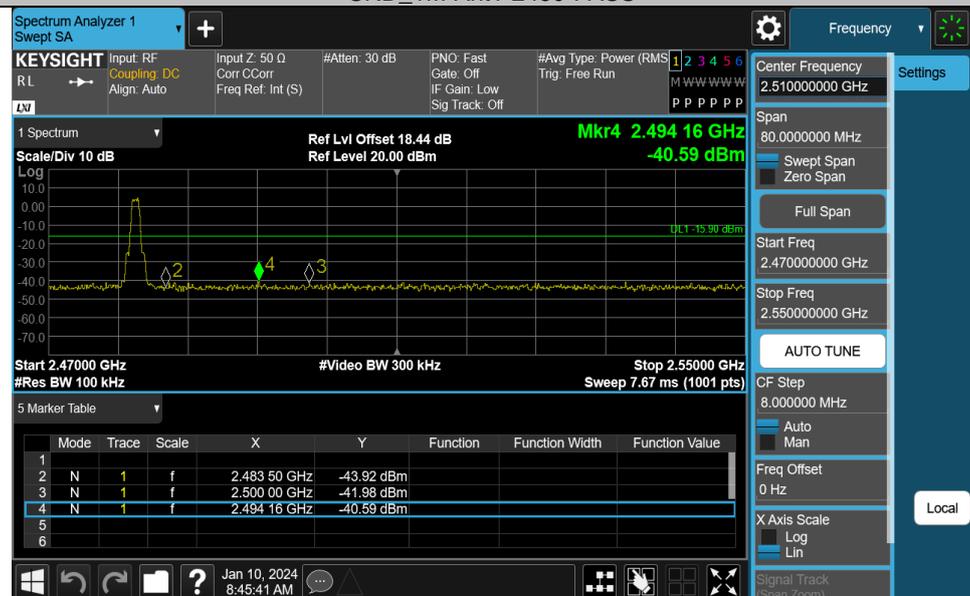
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD_1M	Ant1	Low	2402	4.53	-39.91	$\leq -15.47$	PASS
SRD_1M	Ant1	High	2480	4.10	-40.59	$\leq -15.9$	PASS
SRD_2M	Ant1	Low	2402	3.60	-27.79	$\leq -16.4$	PASS
SRD_2M	Ant1	High	2480	3.30	-38.63	$\leq -16.7$	PASS

### Test Graphs

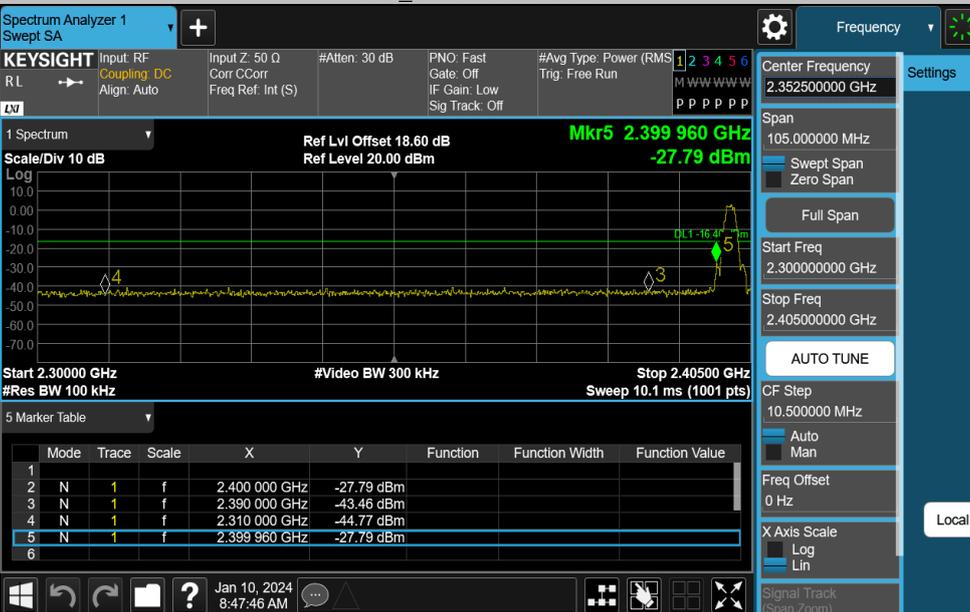
#### SRD\_1M-Ant1-2402-PASS



#### SRD\_1M-Ant1-2480-PASS



#### SRD\_2M-Ant1-2402-PASS



SRD\_2M-Ant1-2480-PASS

**Spectrum Analyzer 1**  
Swept SA

**KEYSIGHT** Input: RF    Input Z: 50 Ω    #Atten: 30 dB    PNO: Fast    #Avg Type: Power (RMS) 1 2 3 4 5 6  
 R/L    Coupling: DC    Corr: CCorr    Freq Ref: Int (S)    Gate: Off    Trig: Free Run  
 Align: Auto    IF Gain: Low    Sig Track: Off

Center Frequency: 2.510000000 GHz

Span: 80.0000000 MHz

Start Freq: 2.470000000 GHz

Stop Freq: 2.550000000 GHz

AUTO TUNE

CF Step: 8.000000 MHz

Freq Offset: 0 Hz

X Axis Scale: Log

Signal Track (Span Zoom)

---

1 Spectrum    Ref Lvl Offset 18.44 dB    Mkr4 2.534 80 GHz  
 Scale/Div 10 dB    Ref Level 20.00 dBm    -38.63 dBm

Start 2.47000 GHz    #Video BW 300 kHz    Stop 2.55000 GHz  
 #Res BW 100 kHz    Sweep 7.67 ms (1001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.483 50 GHz	-43.03 dBm		
2	N	1	f	2.500 00 GHz	-43.17 dBm		
3	N	1	f	2.534 80 GHz	-38.63 dBm		
4	N	1	f	2.534 80 GHz	-38.63 dBm		
5							
6							

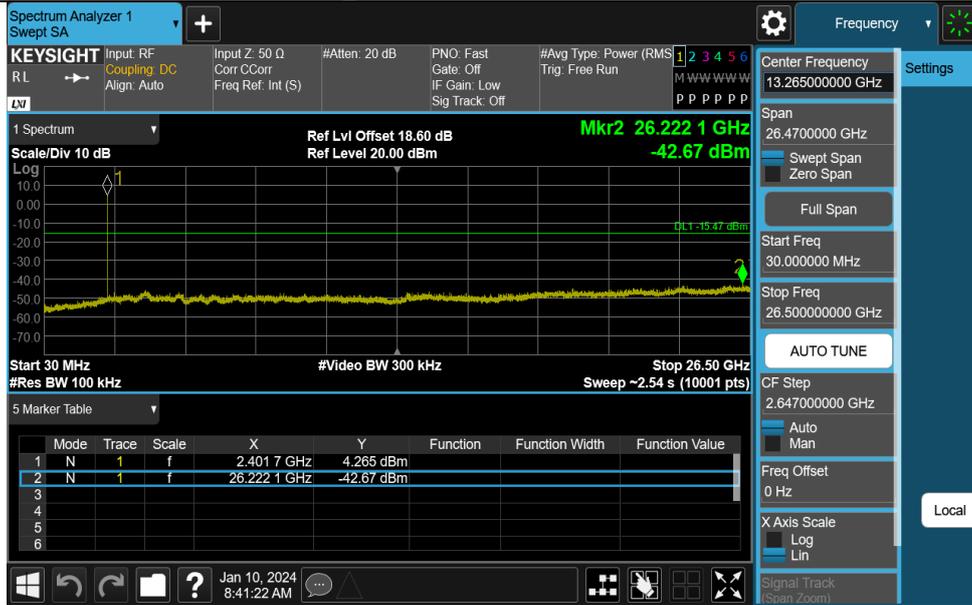
Jan 10, 2024 8:51:51 AM

## Appendix G: Conducted Spurious Emission Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD_1M	Ant1	2402	30~26500	4.53	-42.67	≤-15.47	PASS
SRD_1M	Ant1	2440	30~26500	4.18	-42.94	≤-15.82	PASS
SRD_1M	Ant1	2480	30~26500	4.10	-42.62	≤-15.9	PASS
SRD_2M	Ant1	2402	30~26500	3.60	-42.52	≤-16.4	PASS
SRD_2M	Ant1	2440	30~26500	3.43	-42.54	≤-16.57	PASS
SRD_2M	Ant1	2480	30~26500	3.30	-42.73	≤-16.7	PASS

### Test Graphs

#### SRD\_1M-Ant1-2402-30~26500-PASS



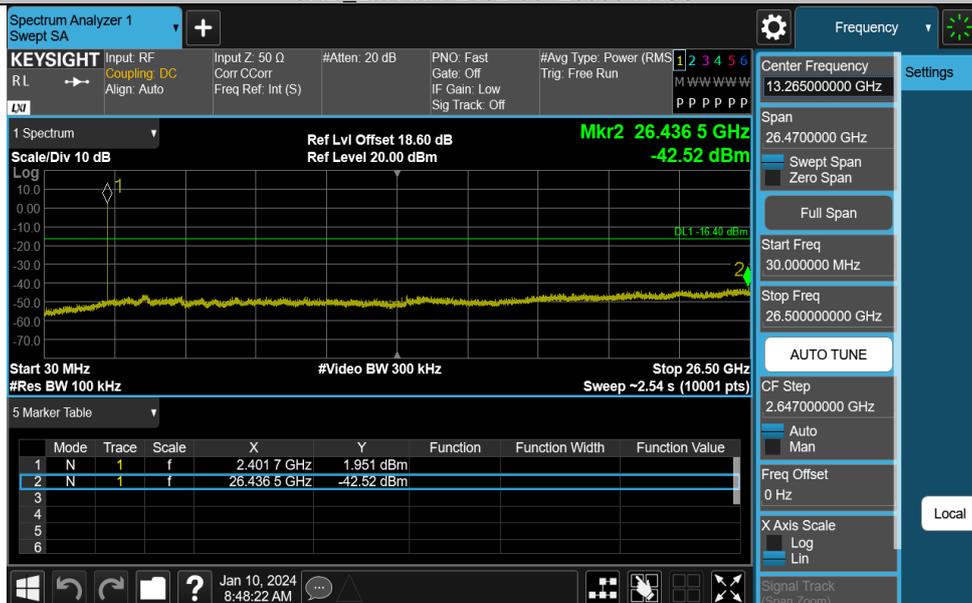
#### SRD\_1M-Ant1-2440-30~26500-PASS



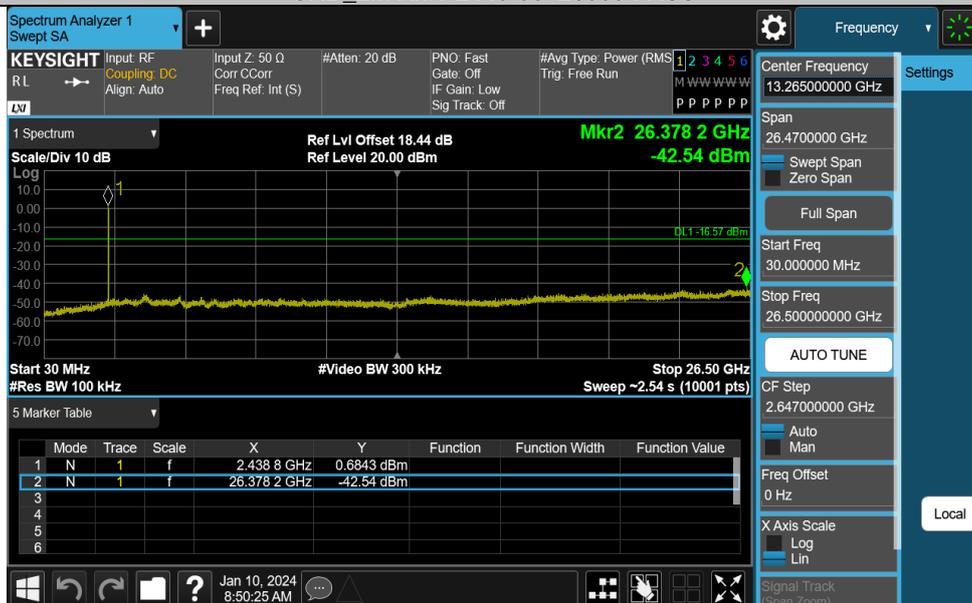
#### SRD\_1M-Ant1-2480-30~26500-PASS



SRD\_2M-Ant1-2402-30~26500-PASS



SRD\_2M-Ant1-2440-30~26500-PASS



SRD\_2M-Ant1-2480-30~26500-PASS

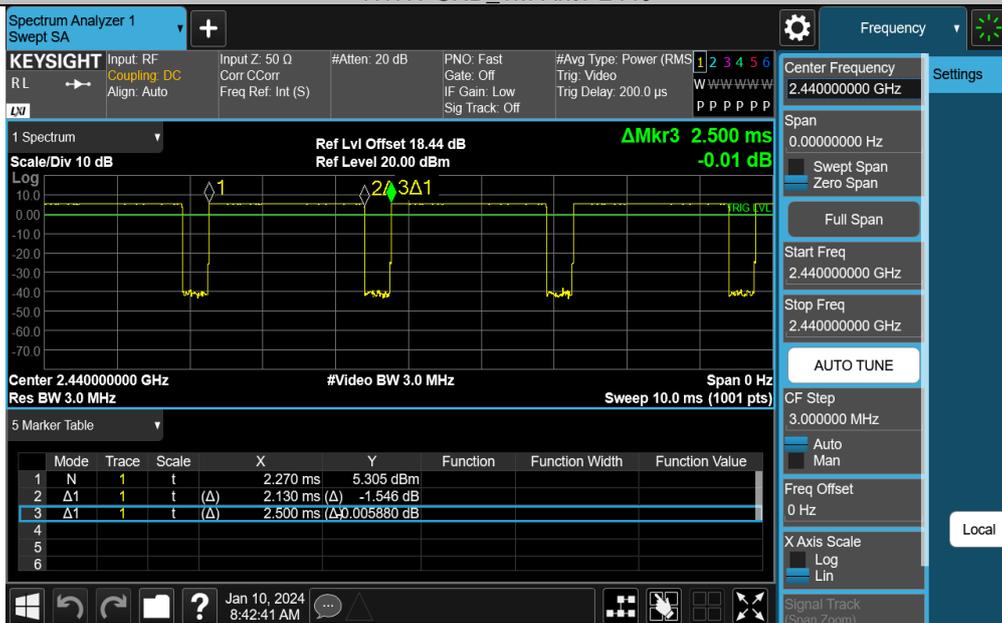


## Appendix H: Duty Cycle Test Result

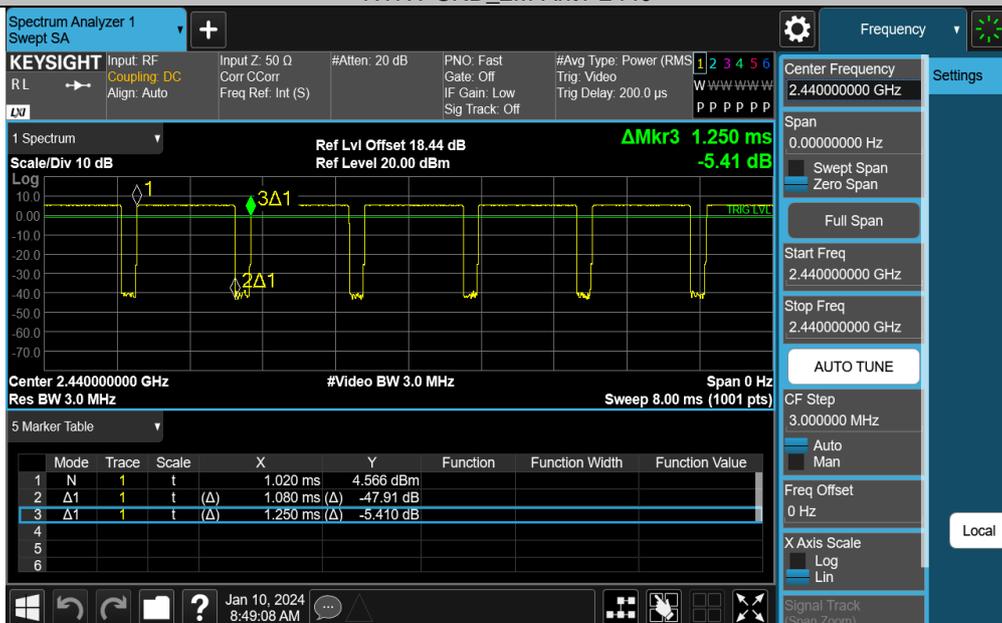
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
SRD_1M	Ant1	2440	2.13	2.50	85.20	0.70
SRD_2M	Ant1	2440	1.08	1.25	86.40	0.63

### Test Graphs

#### NTNV-SRD\_1M-Ant1-2440



#### NTNV-SRD\_2M-Ant1-2440

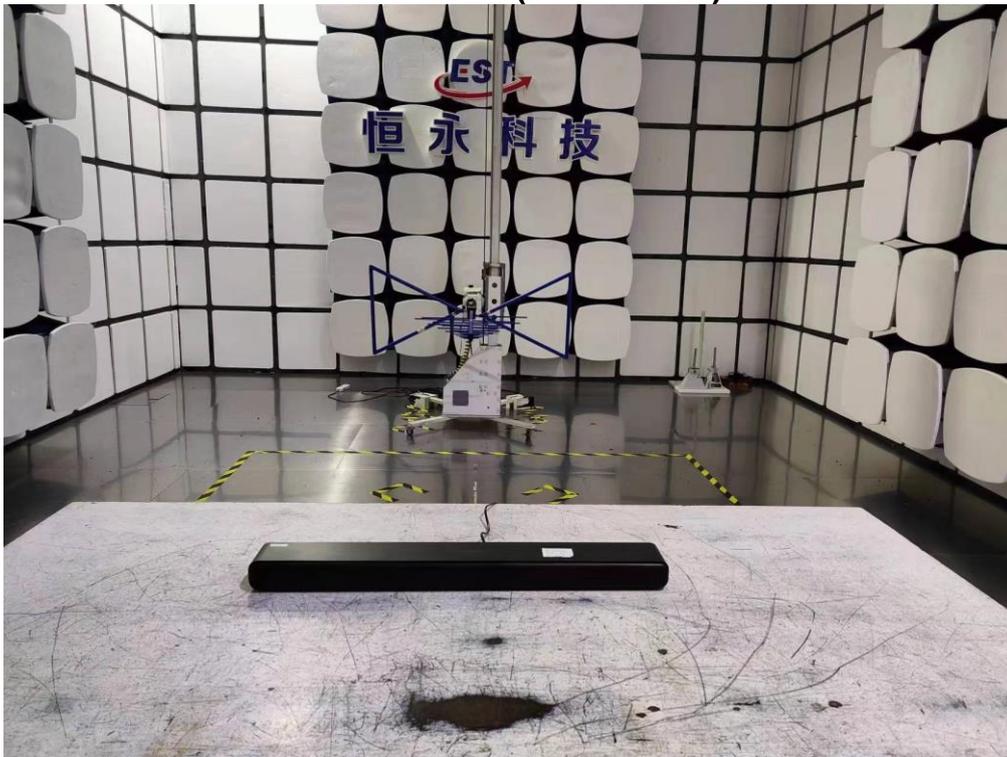


## 12. TEST SETUP PHOTO

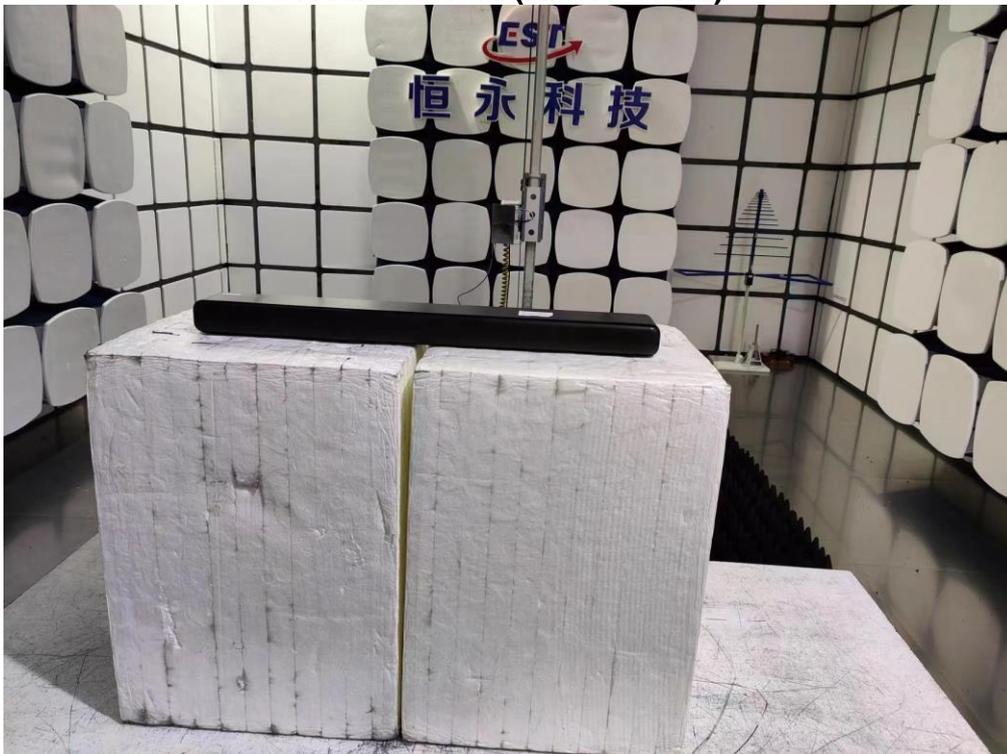
Conducted Test



**Radiated Test (Below 1GHz)**



**Radiated Test (Above 1GHz)**



### 13. EUT PHOTO

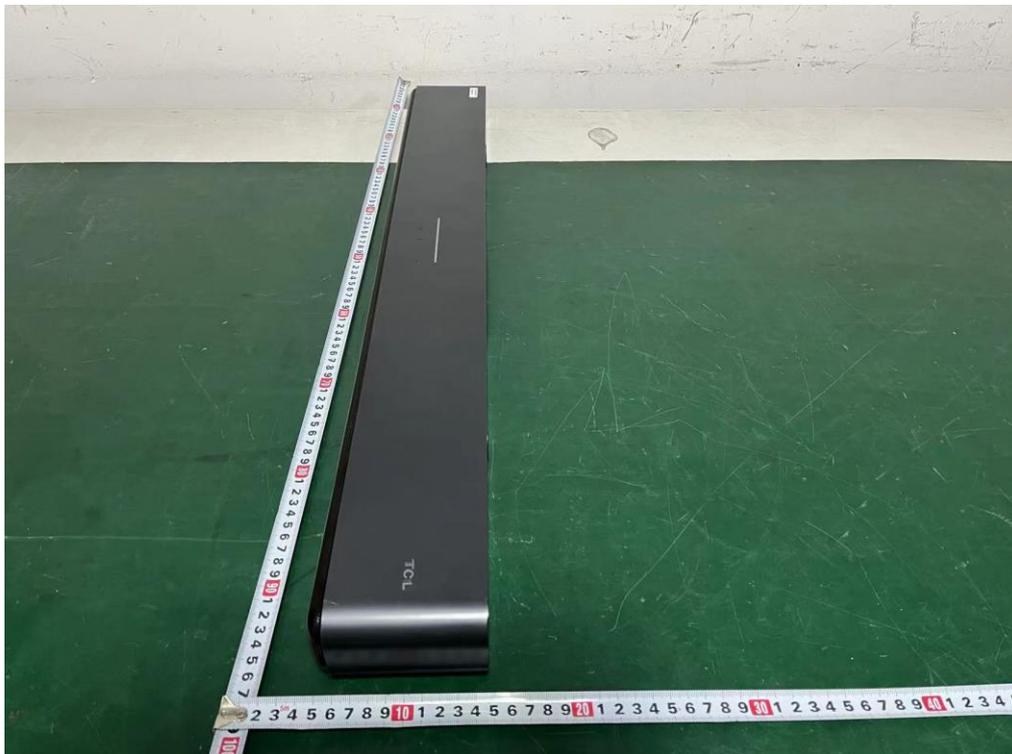
External Photos  
M/N: S55H



**External Photos**  
M/N: S55H



**External Photos**  
M/N: S55H



### External Photos M/N: S55H



**External Photos**  
M/N: S55H



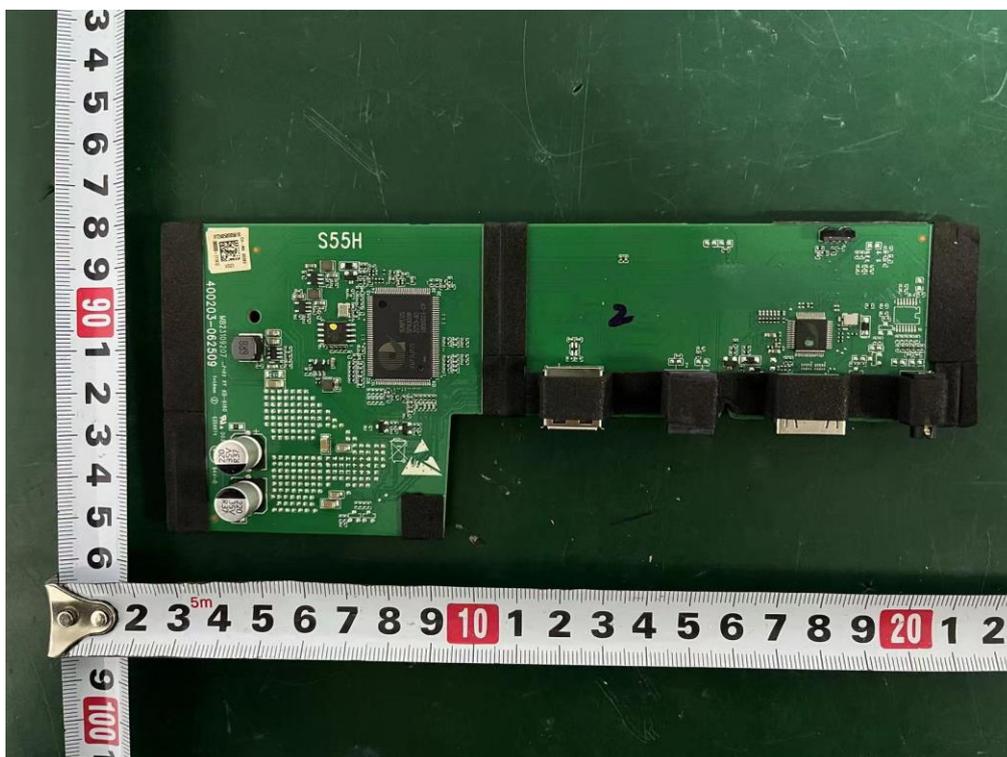
**Internal Photos**  
M/N: S55H



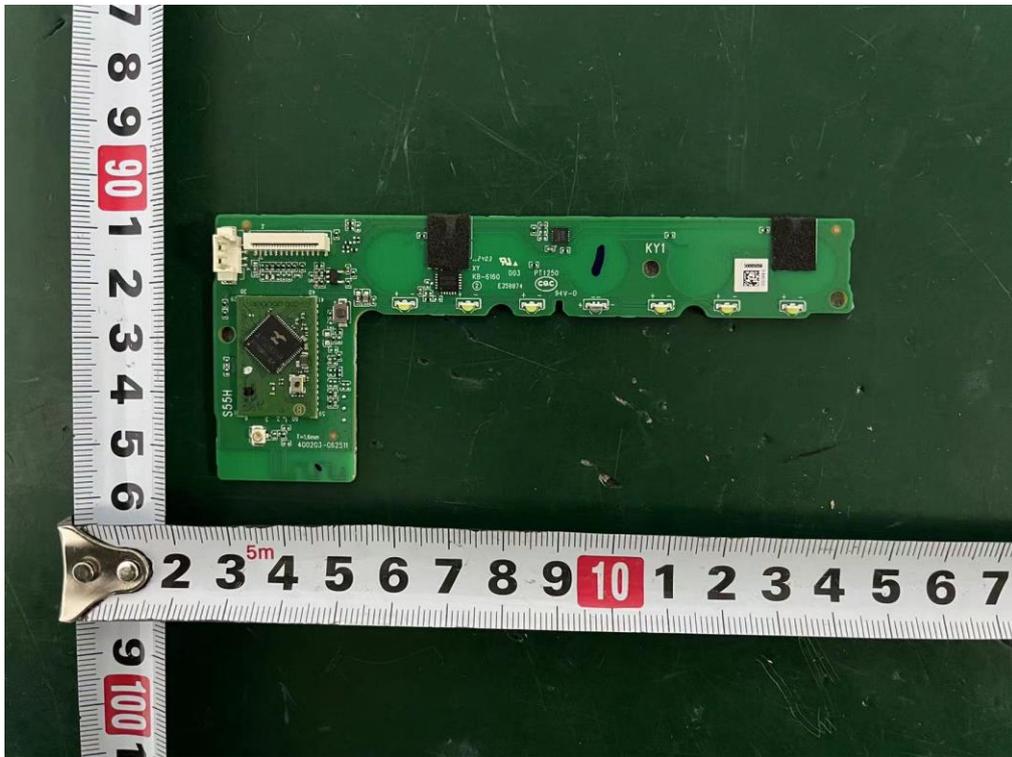
**Internal Photos**  
M/N: S55H



**Internal Photos**  
M/N: S55H

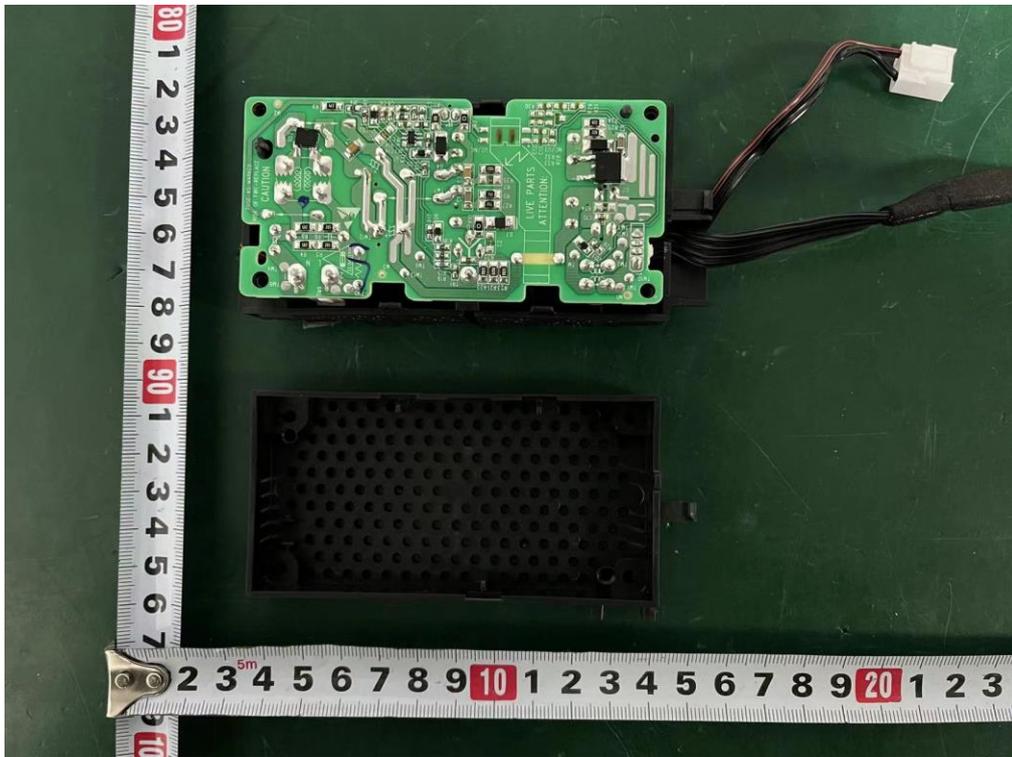
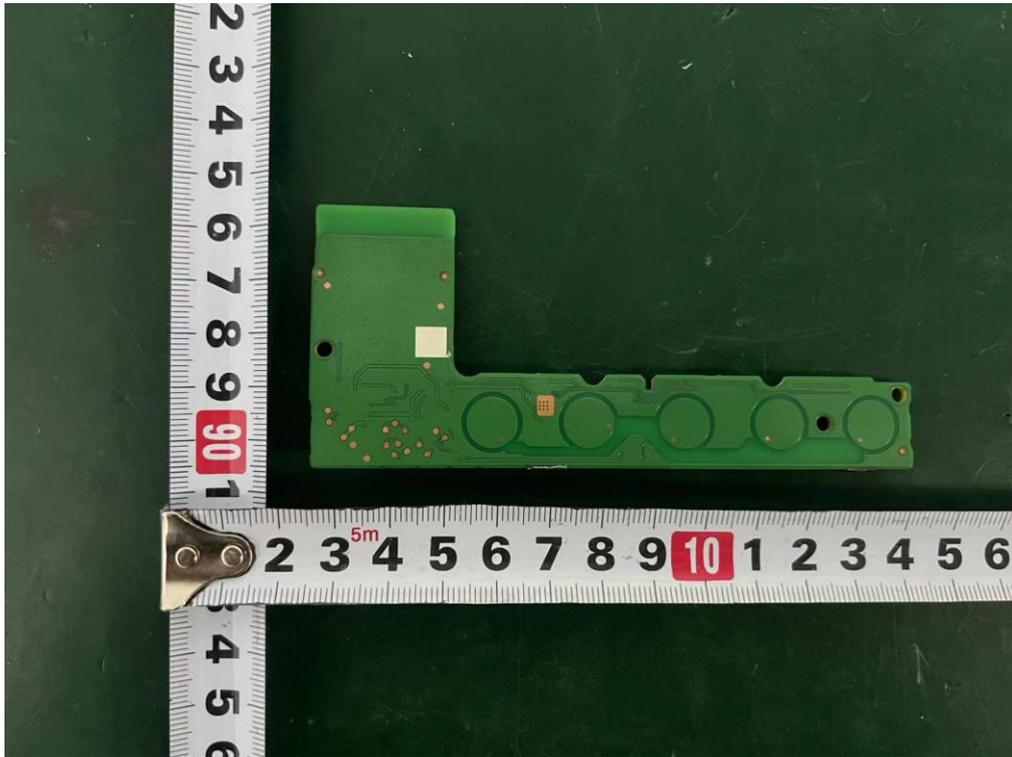


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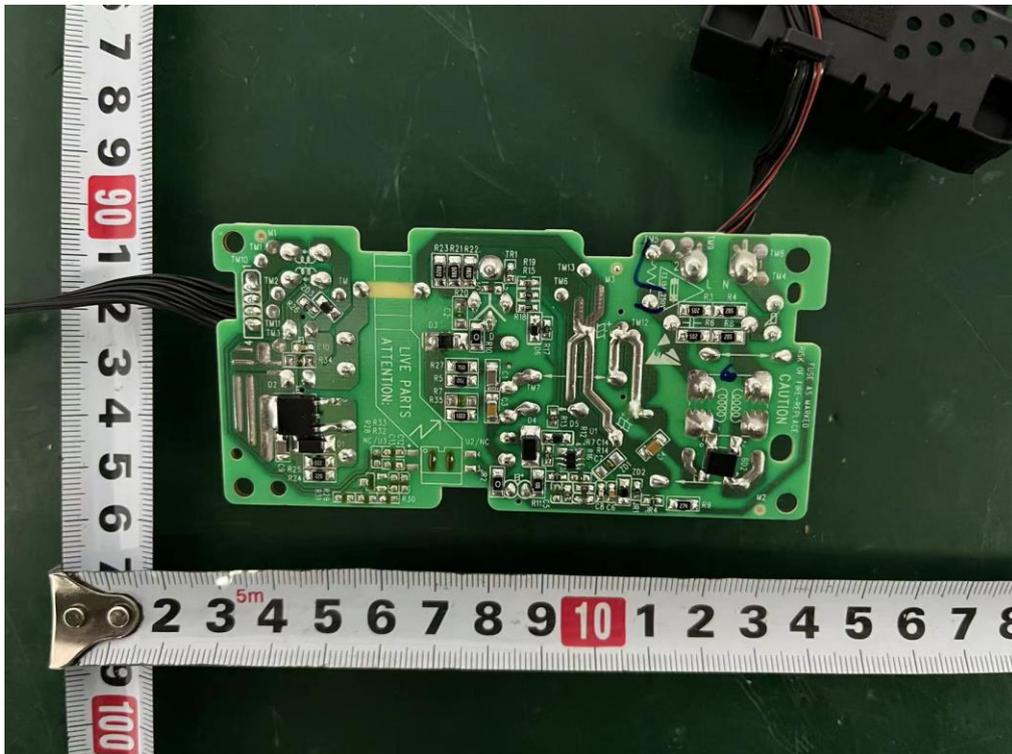
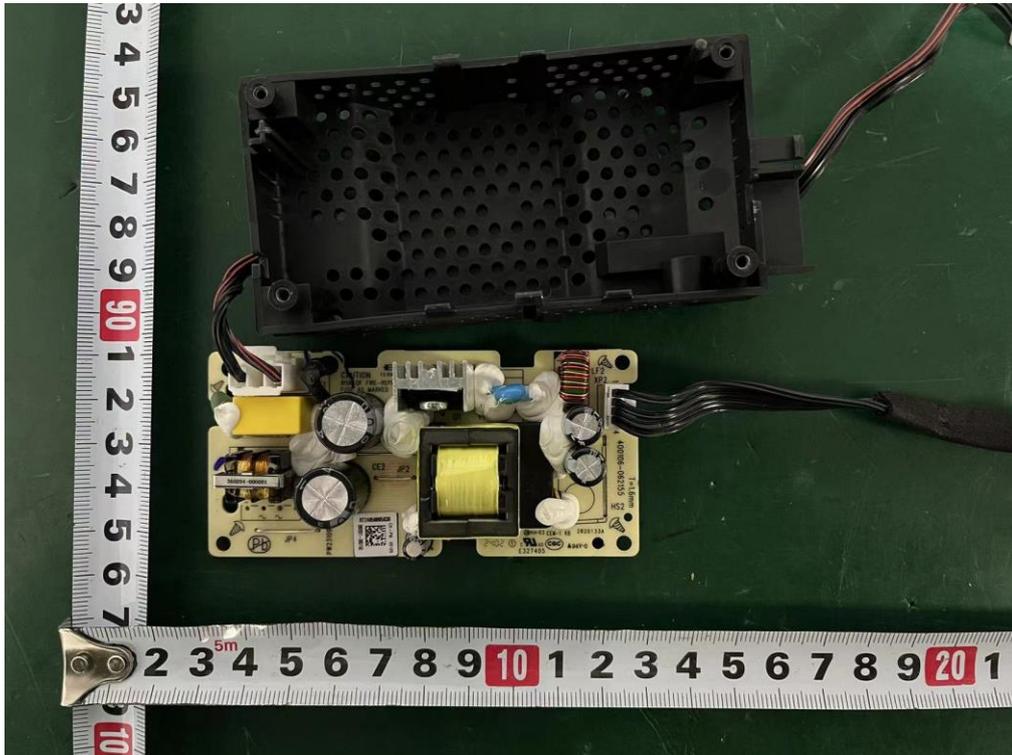


### Internal Photos

M/N: S55H



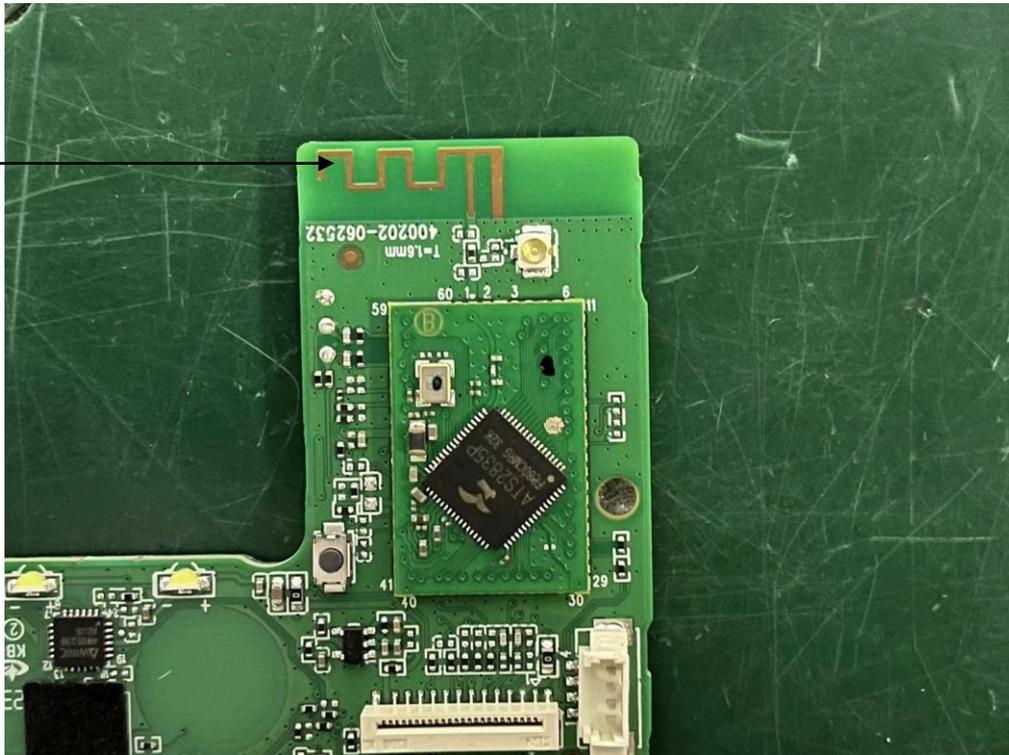
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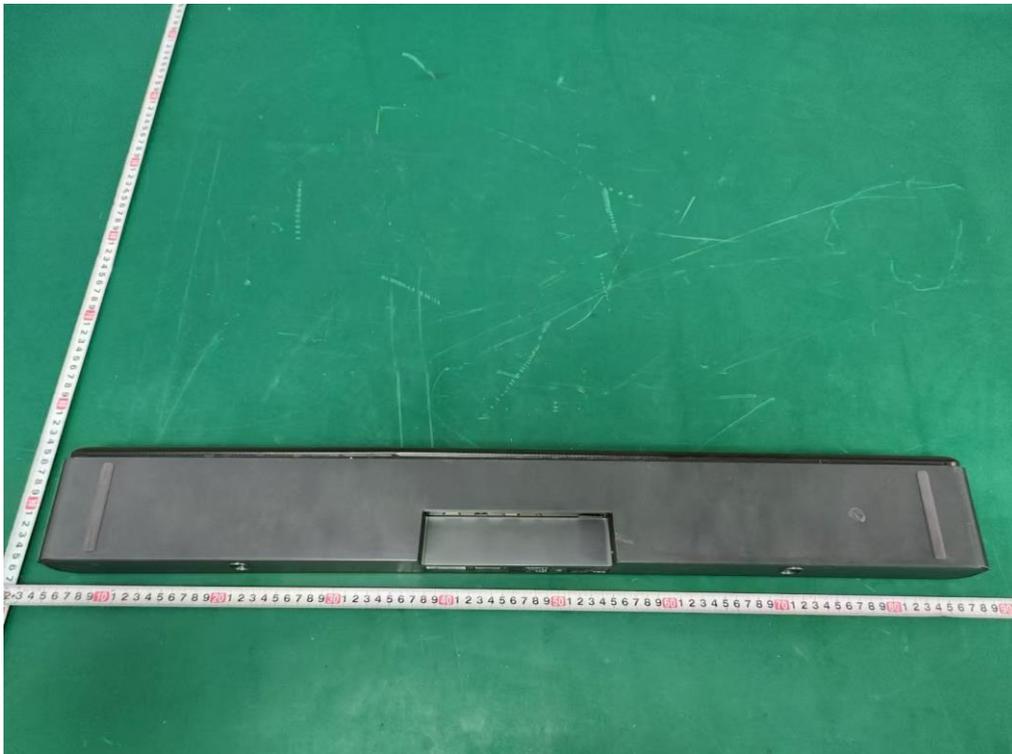
### Internal Photos

M/N: S55H

Bluetooth  
Antenna

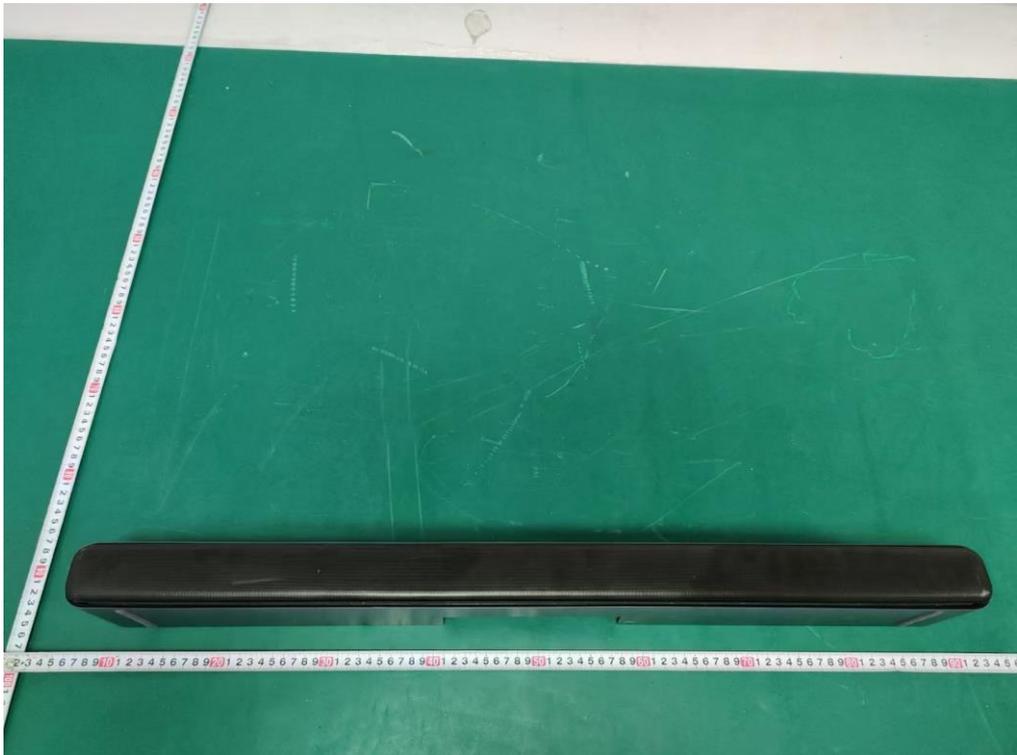


**New photos**  
**External Photos**  
M/N: S55H1

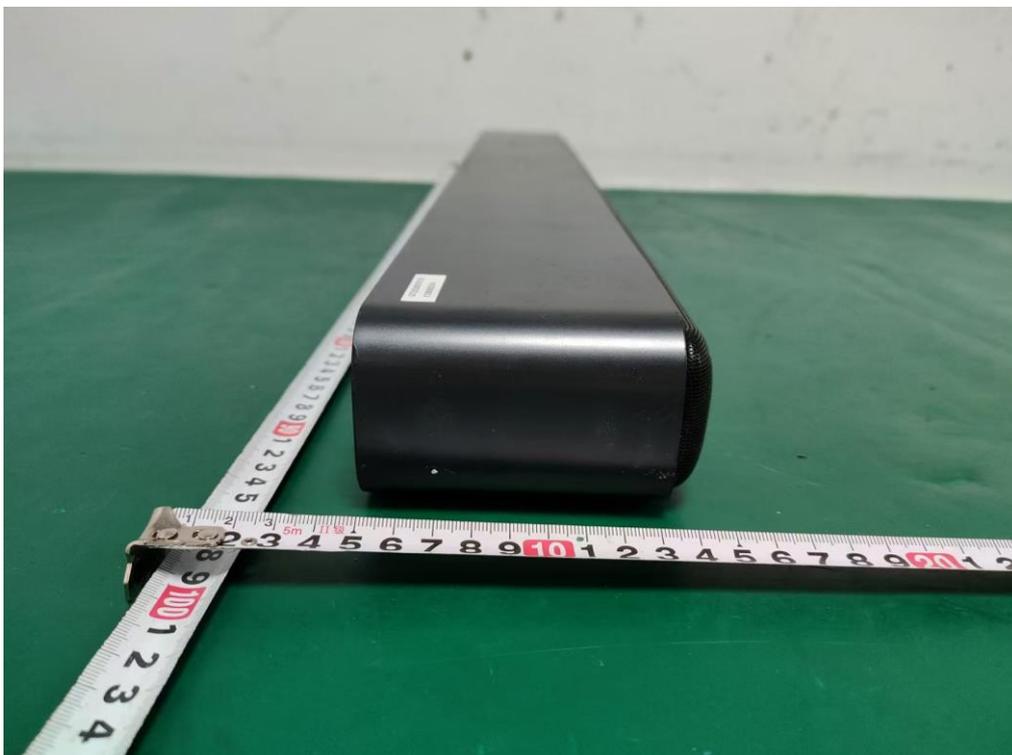
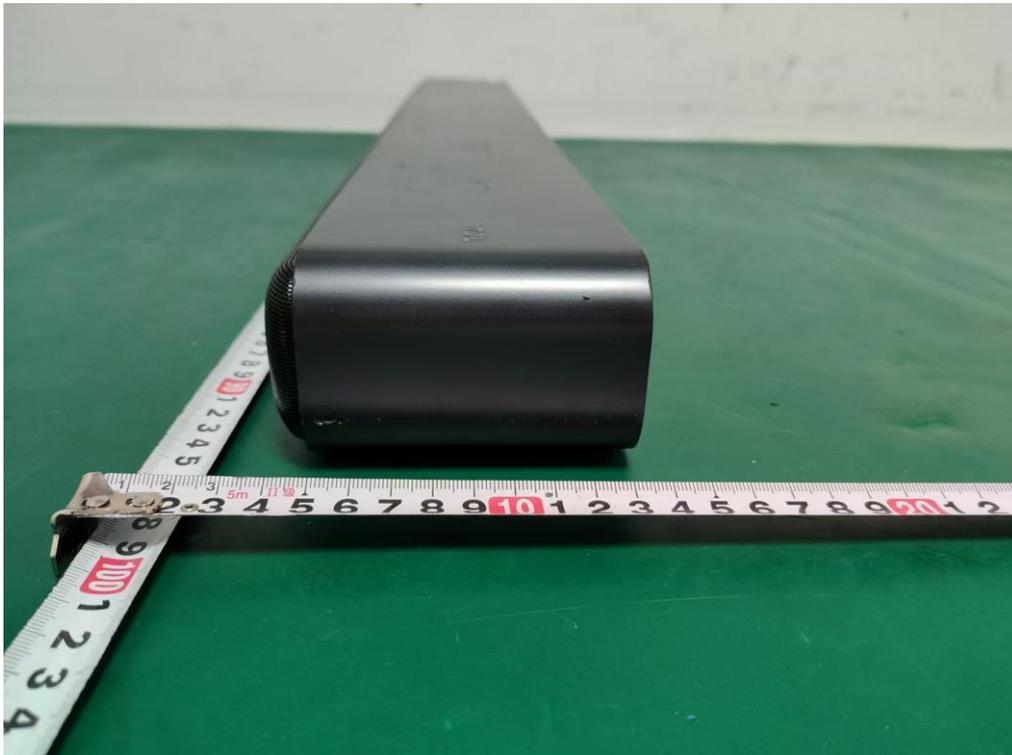


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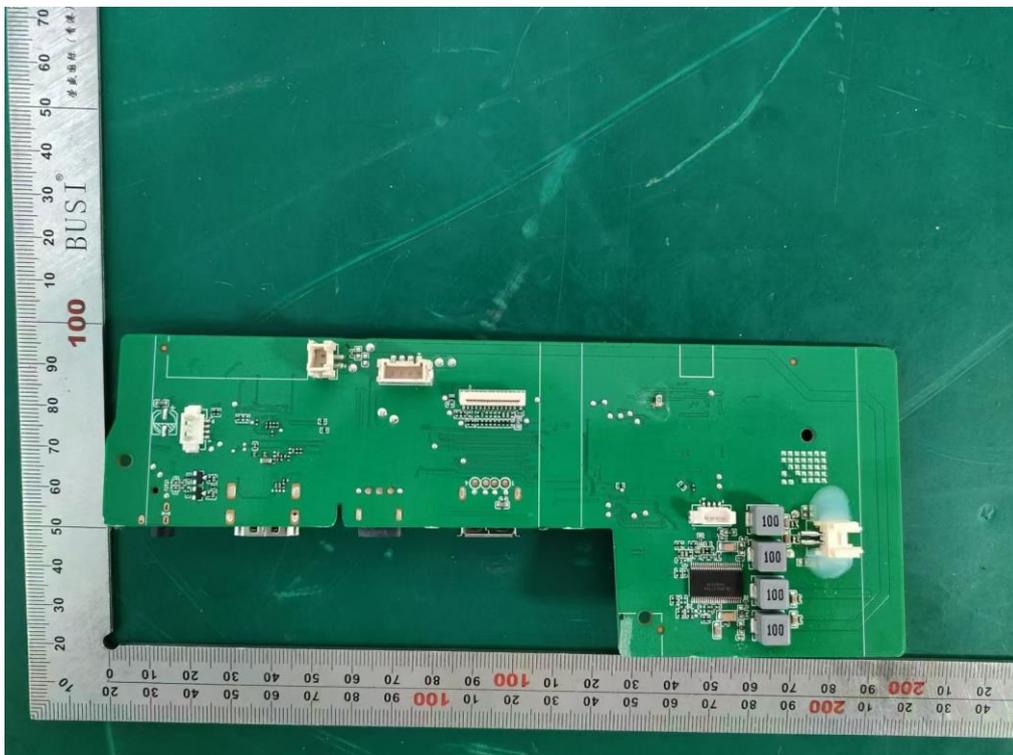
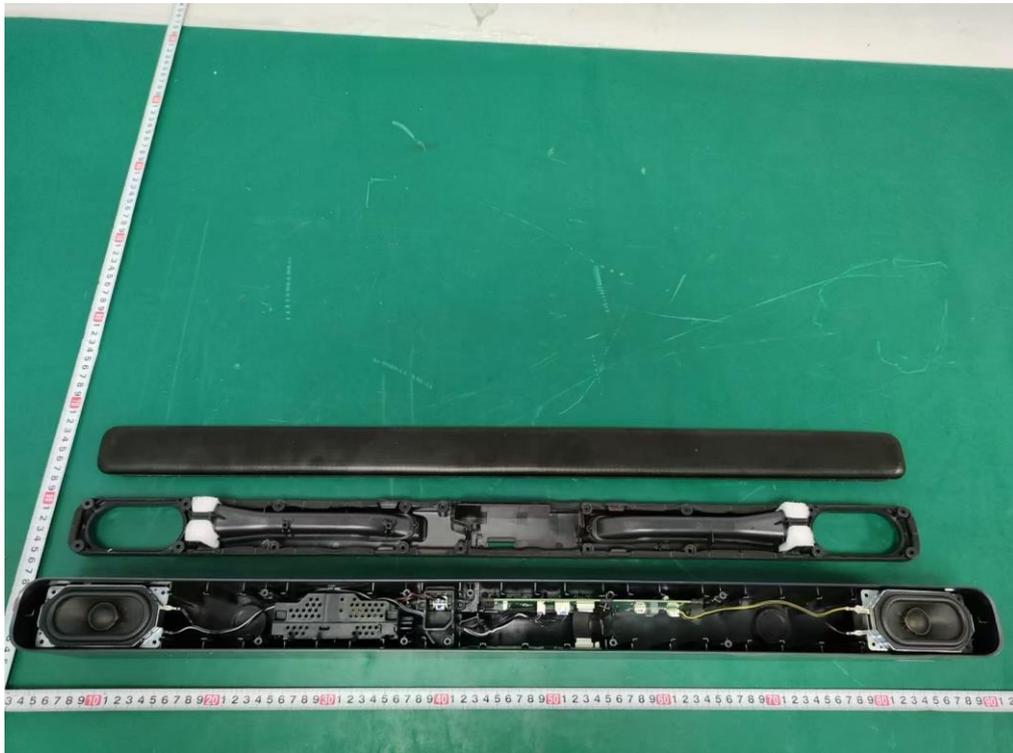
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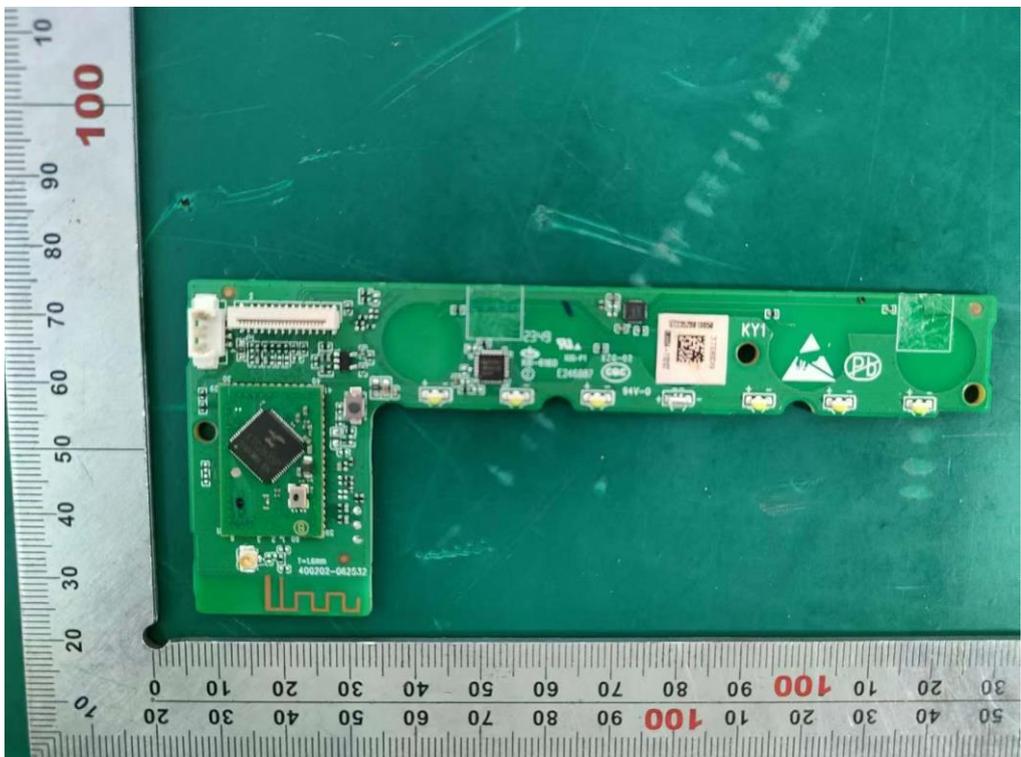
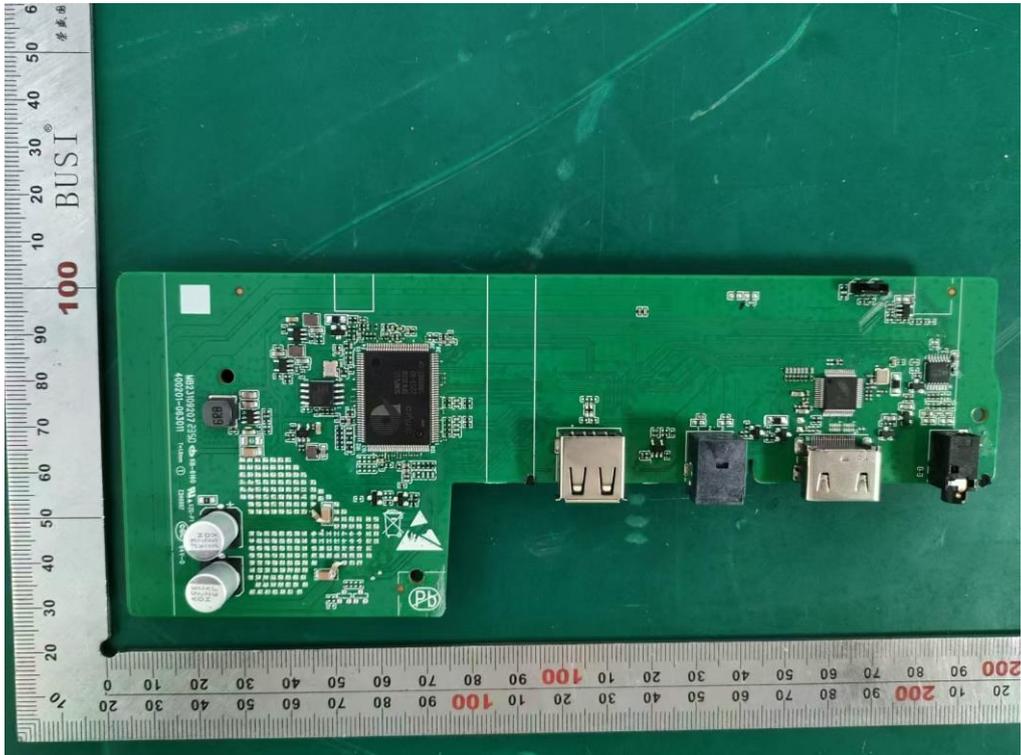
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M/N: S55H1



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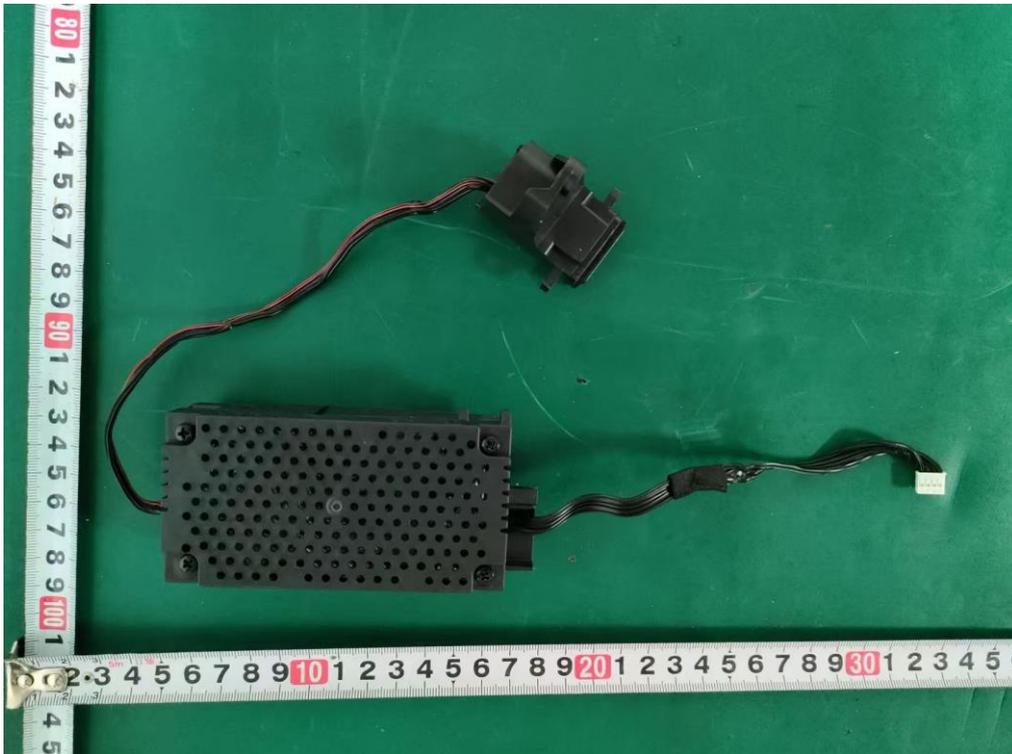
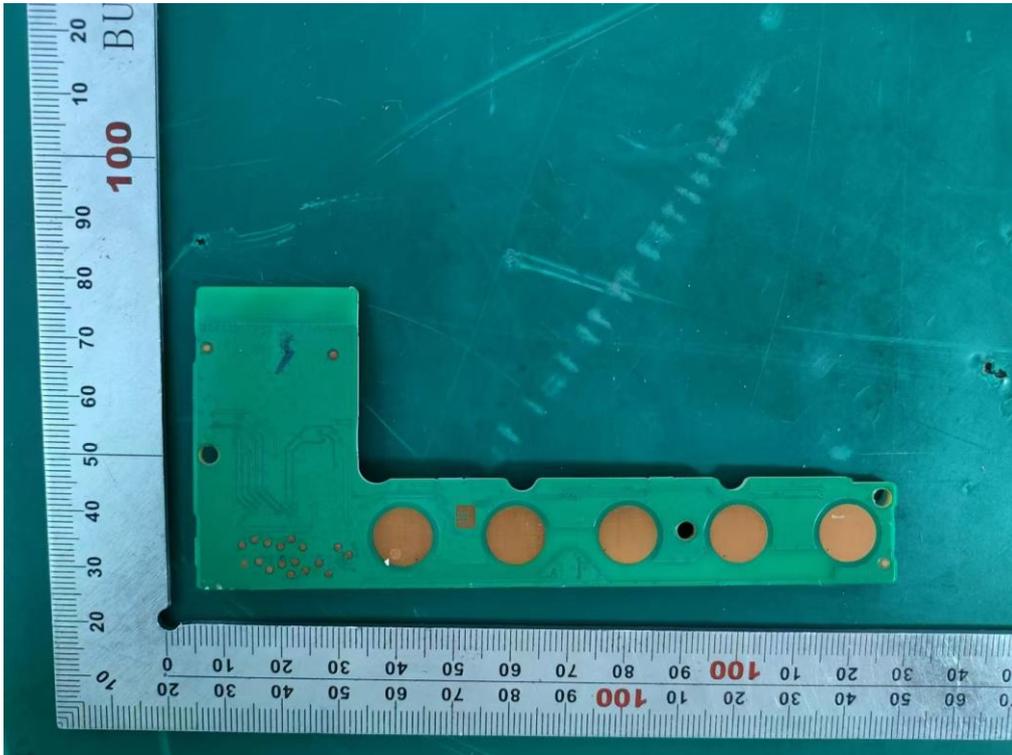


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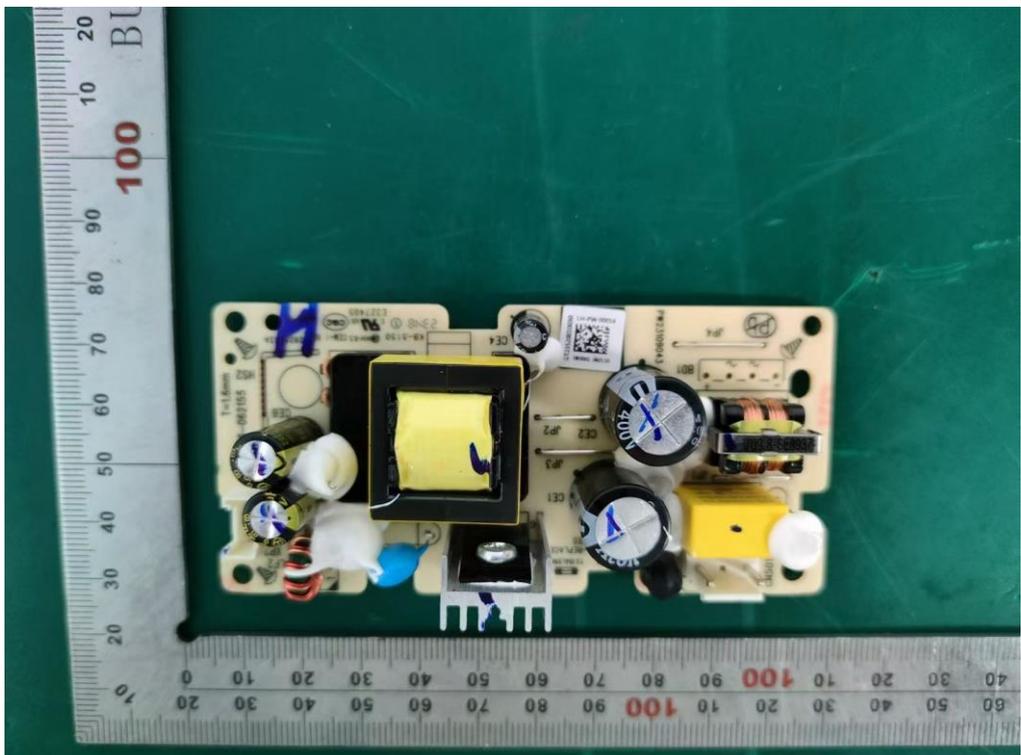
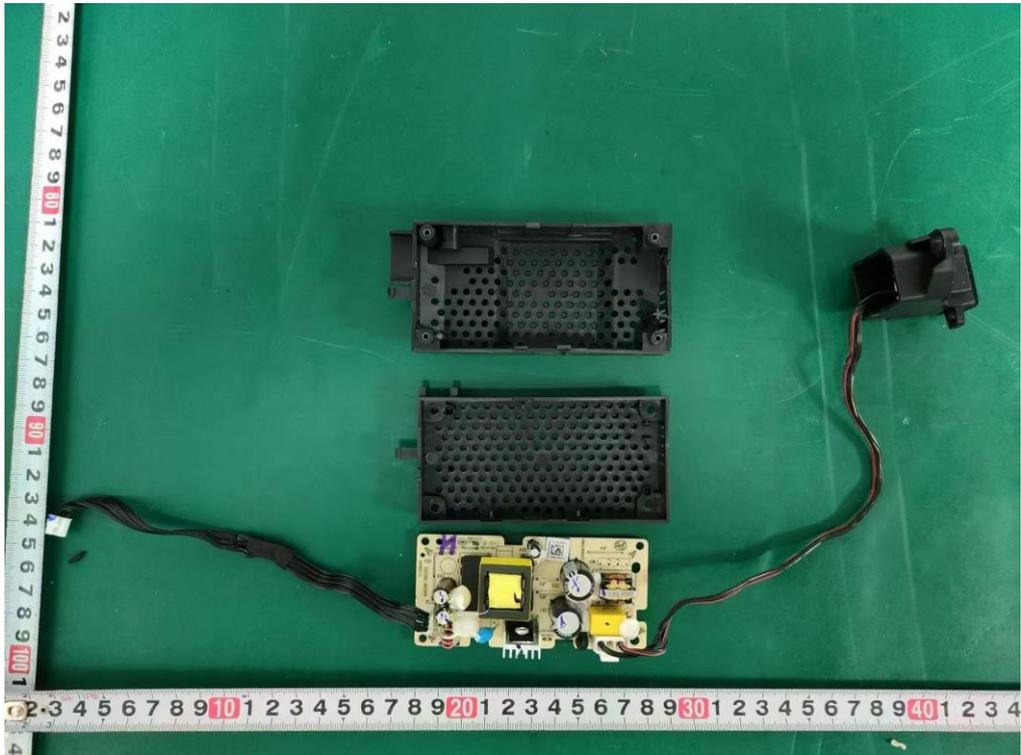


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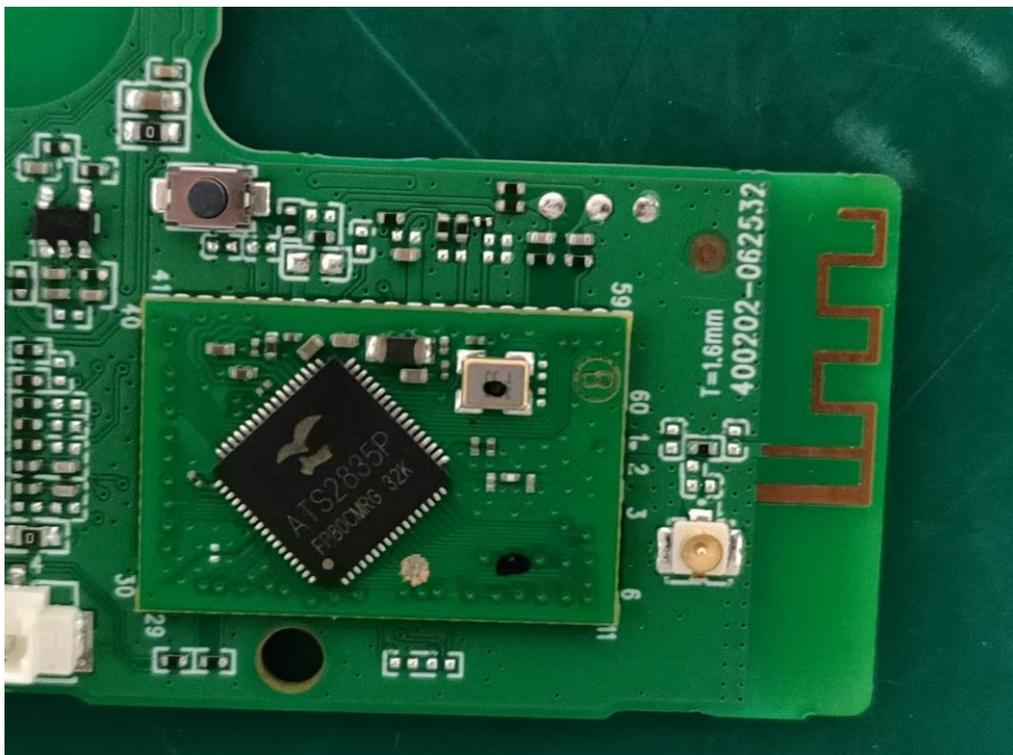
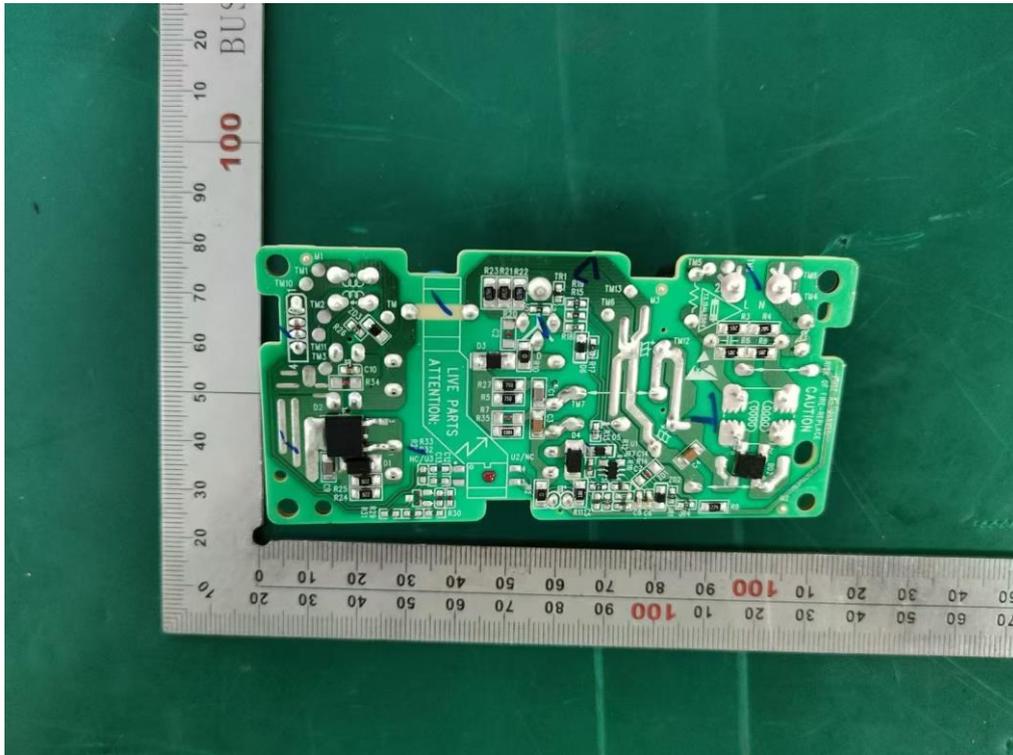
M/N: S55H1



### Internal Photos M/N: S55H1



### Internal Photos M/N: S55H1

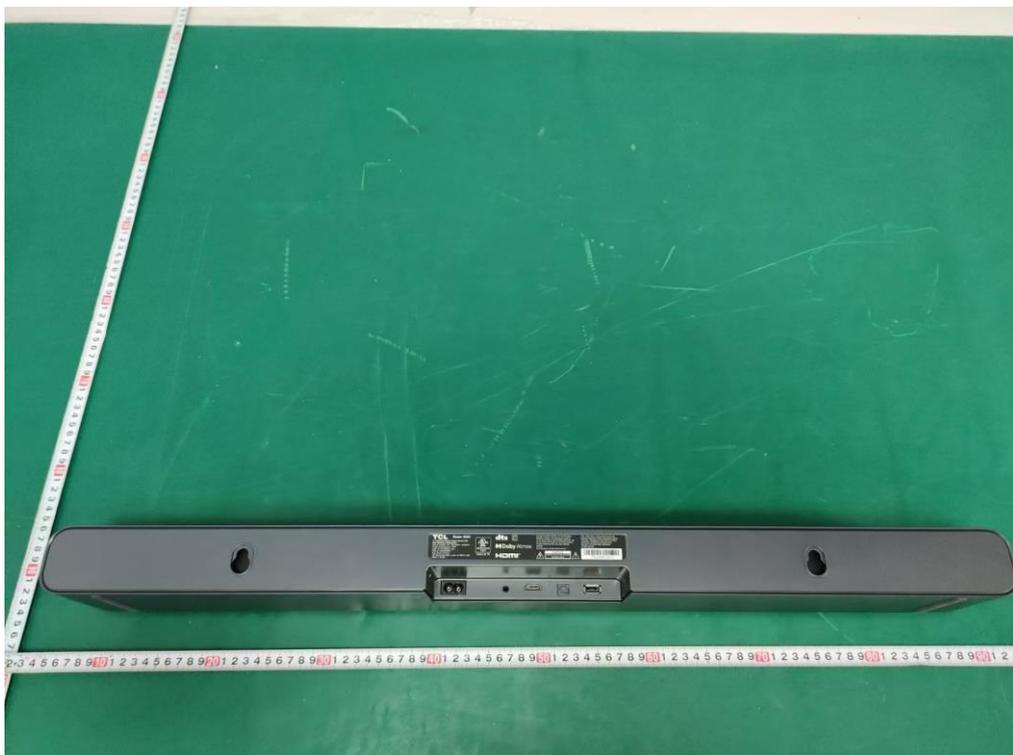


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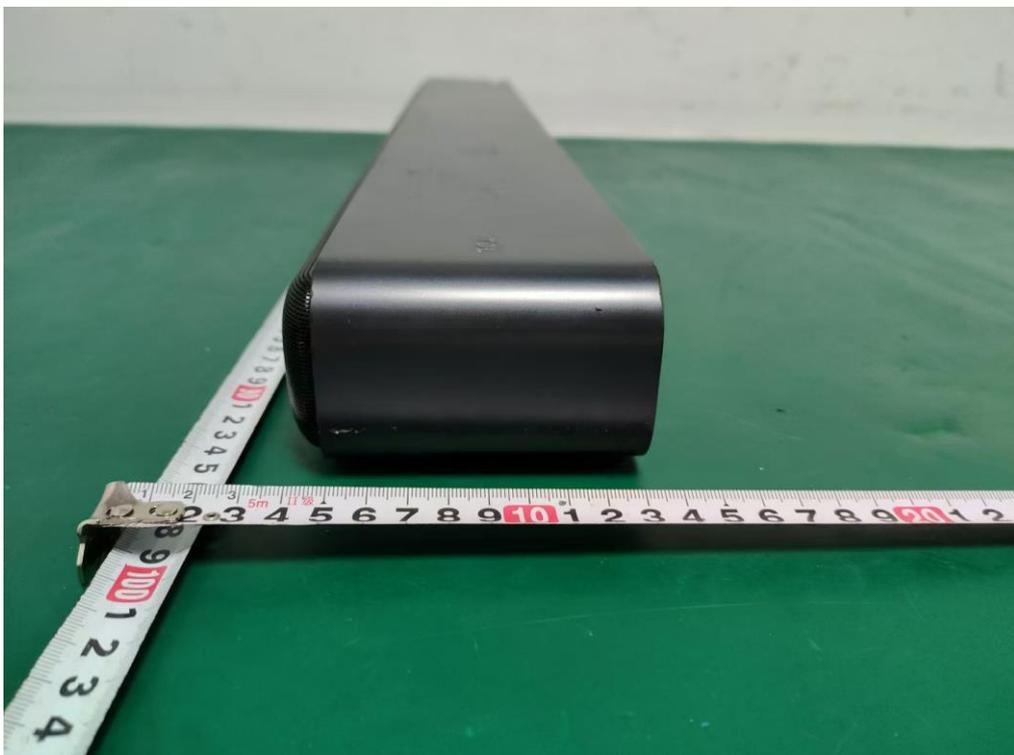
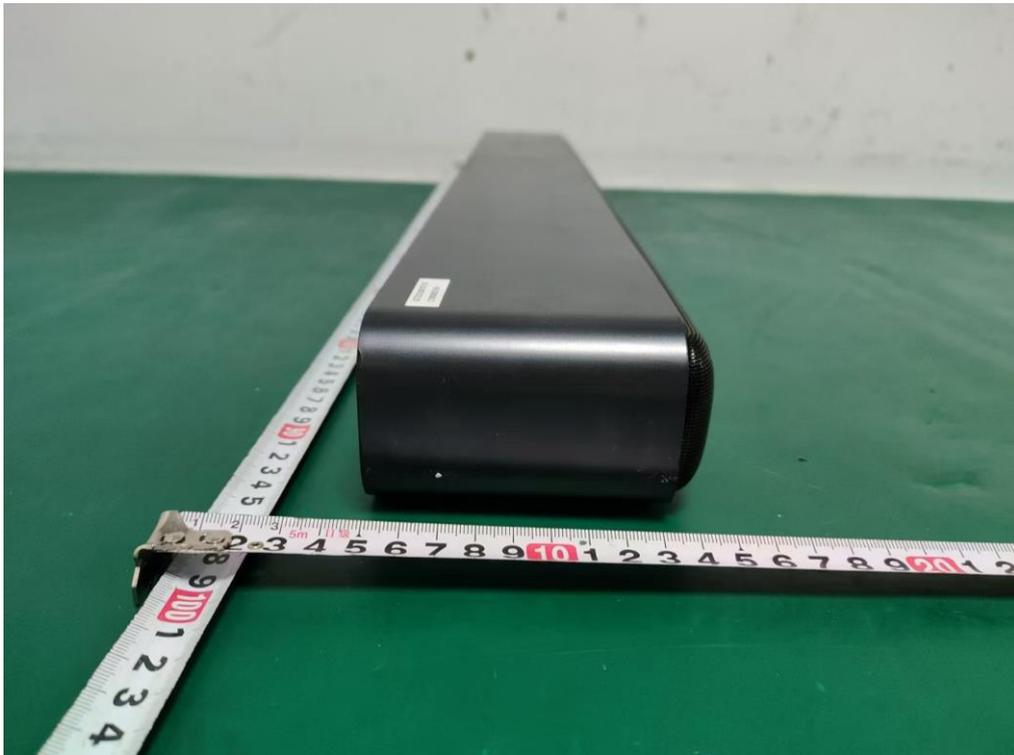
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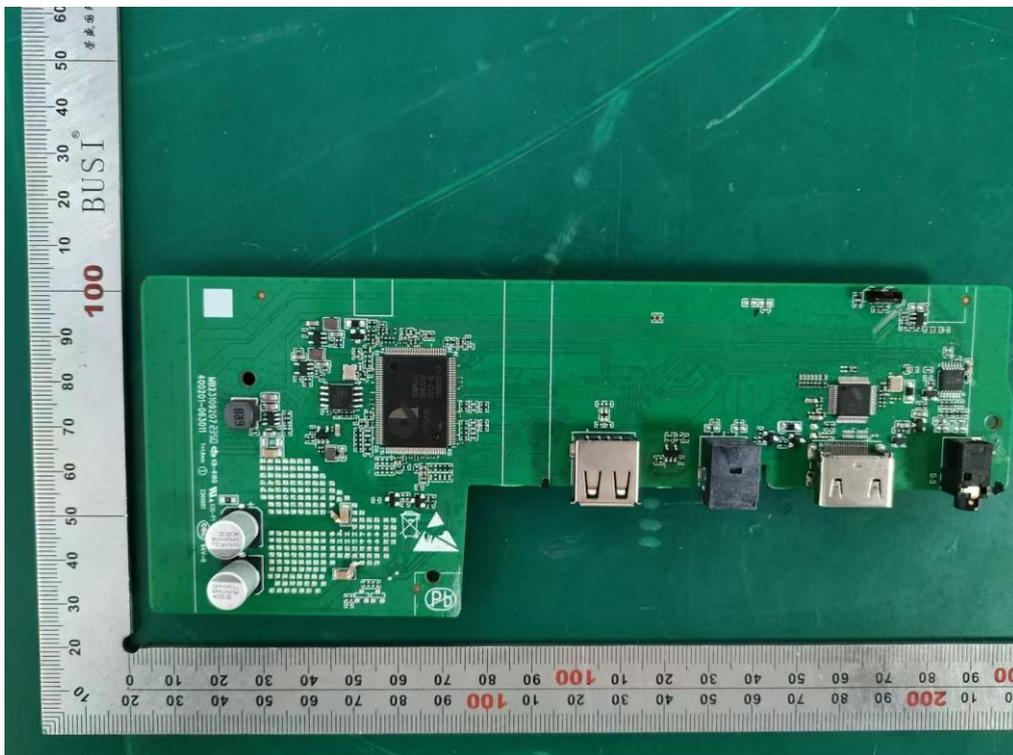
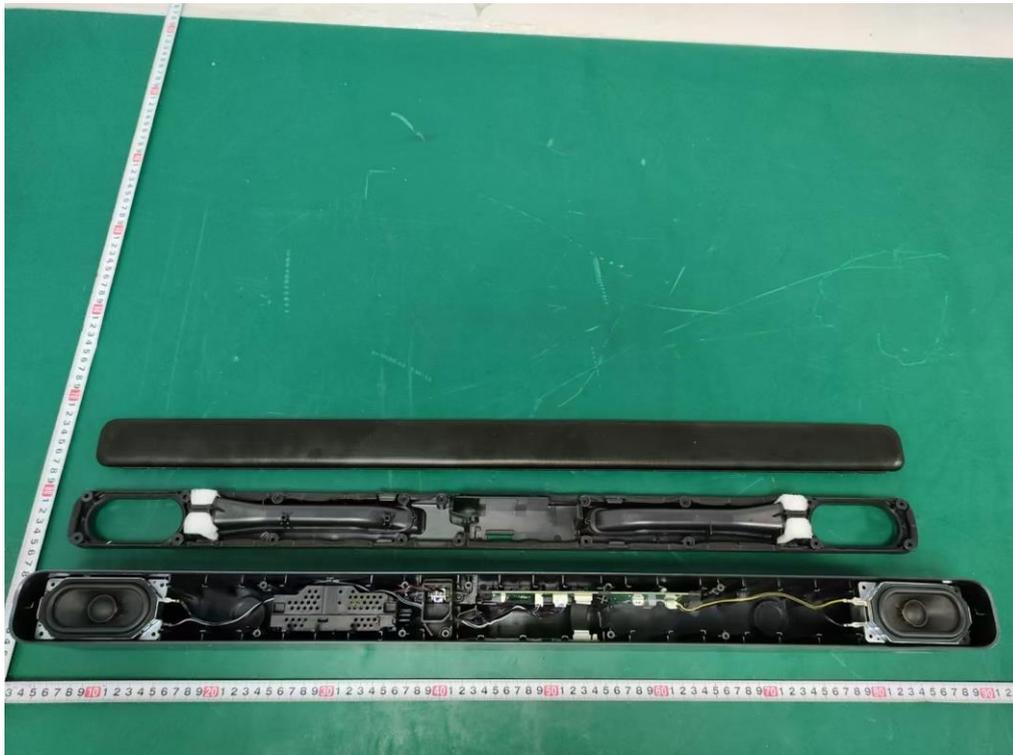
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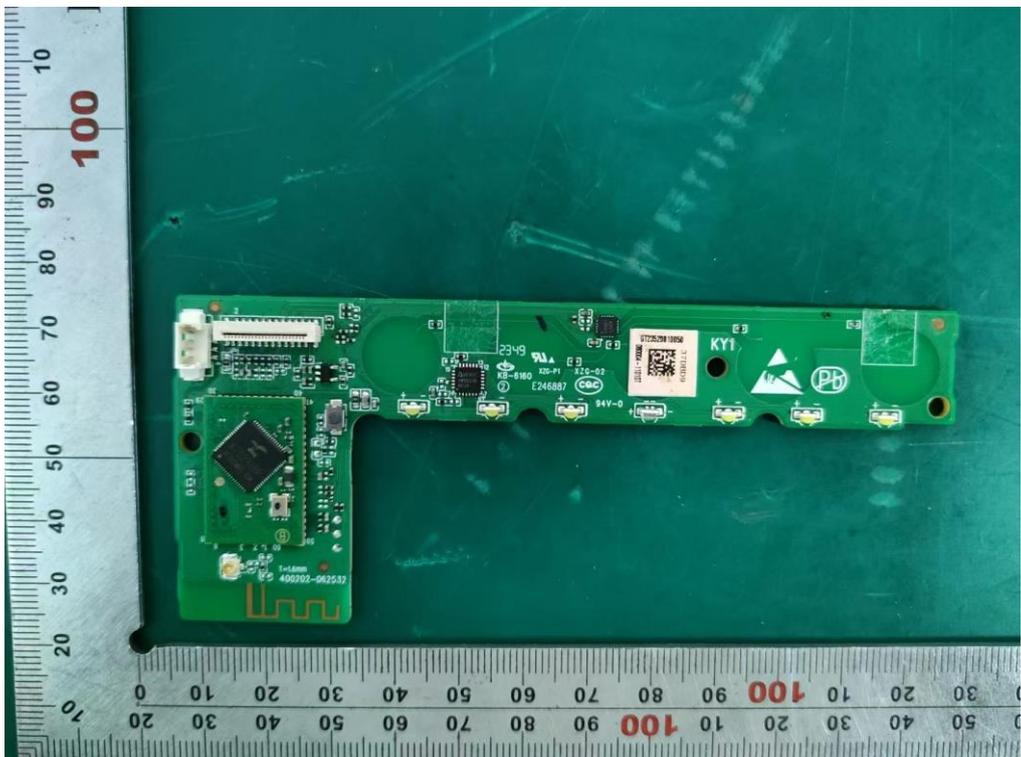
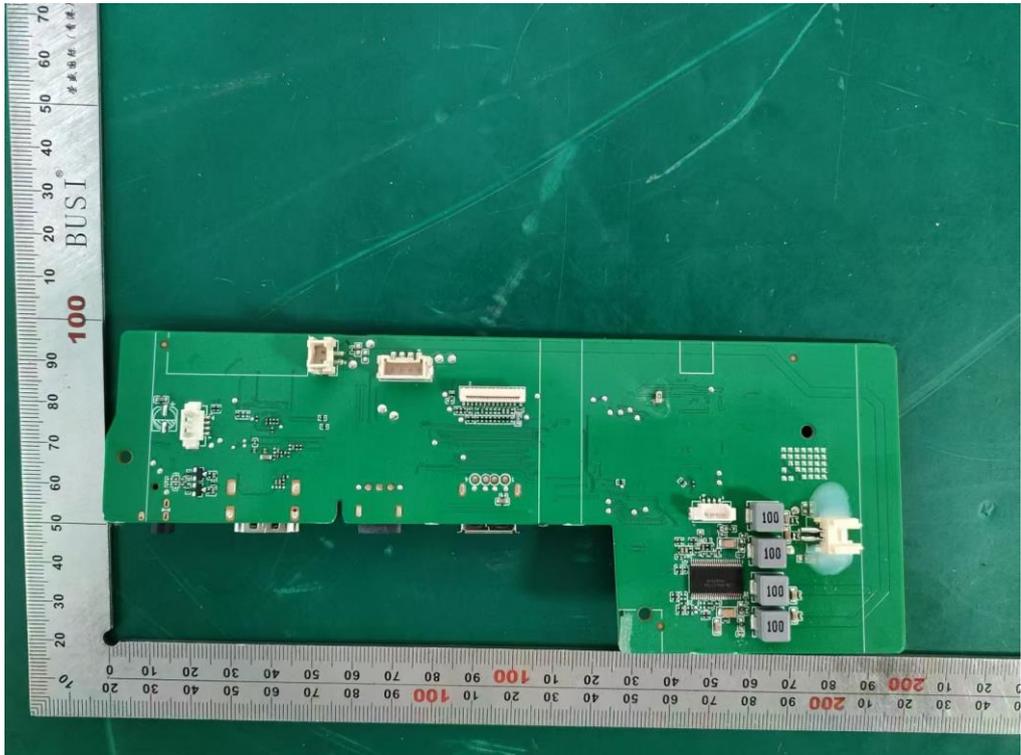
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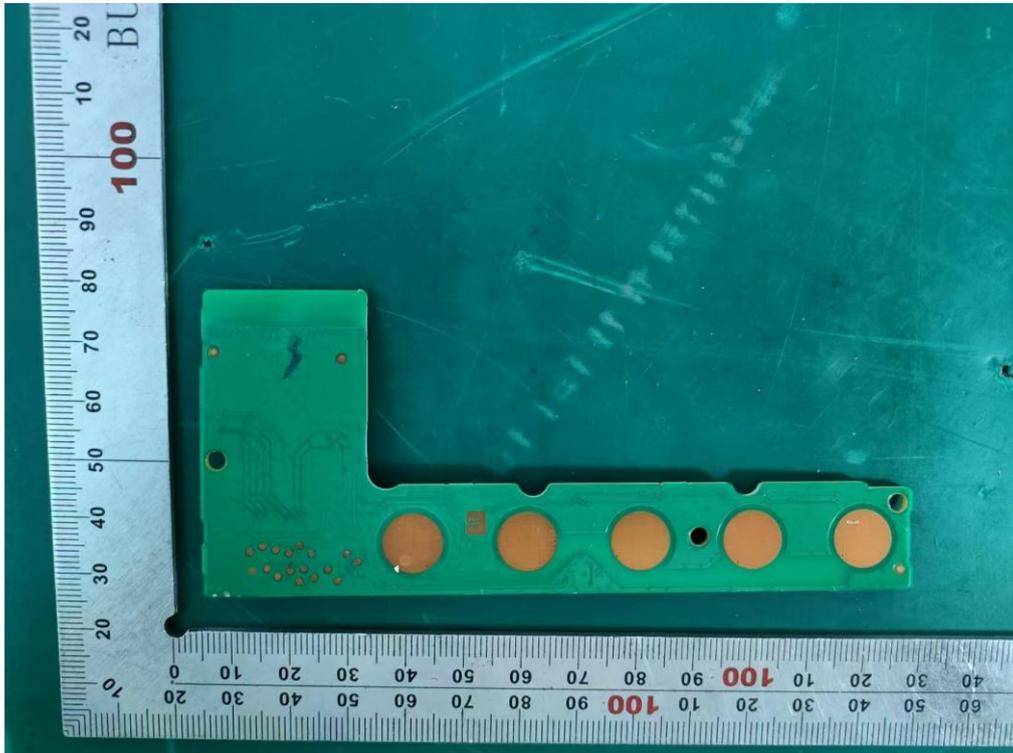
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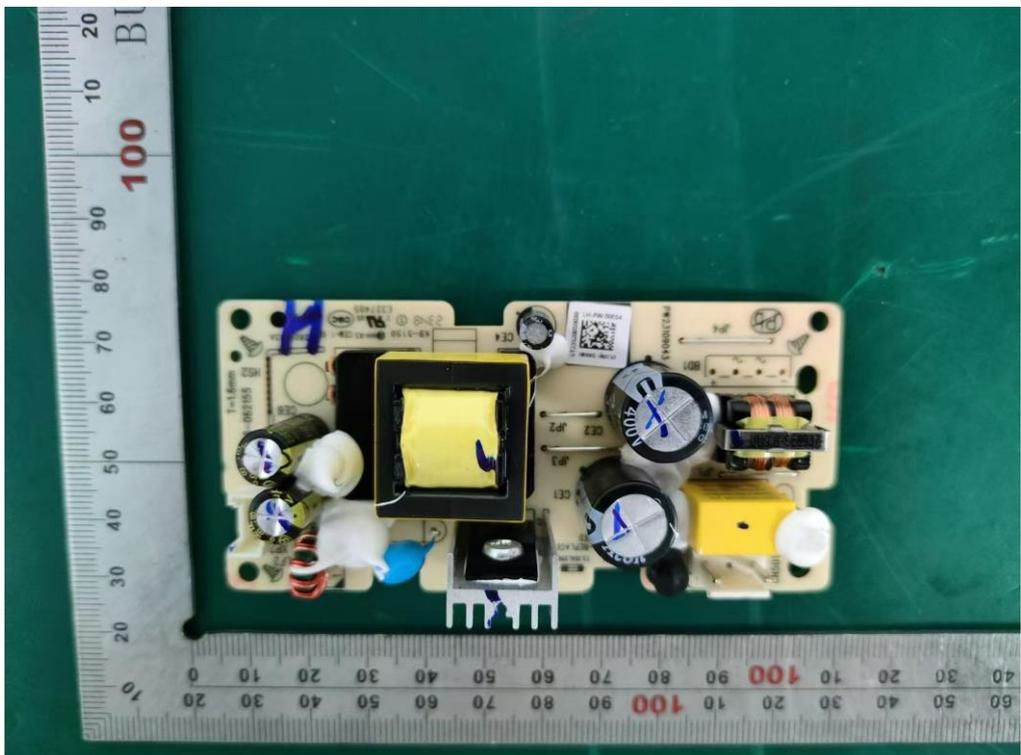
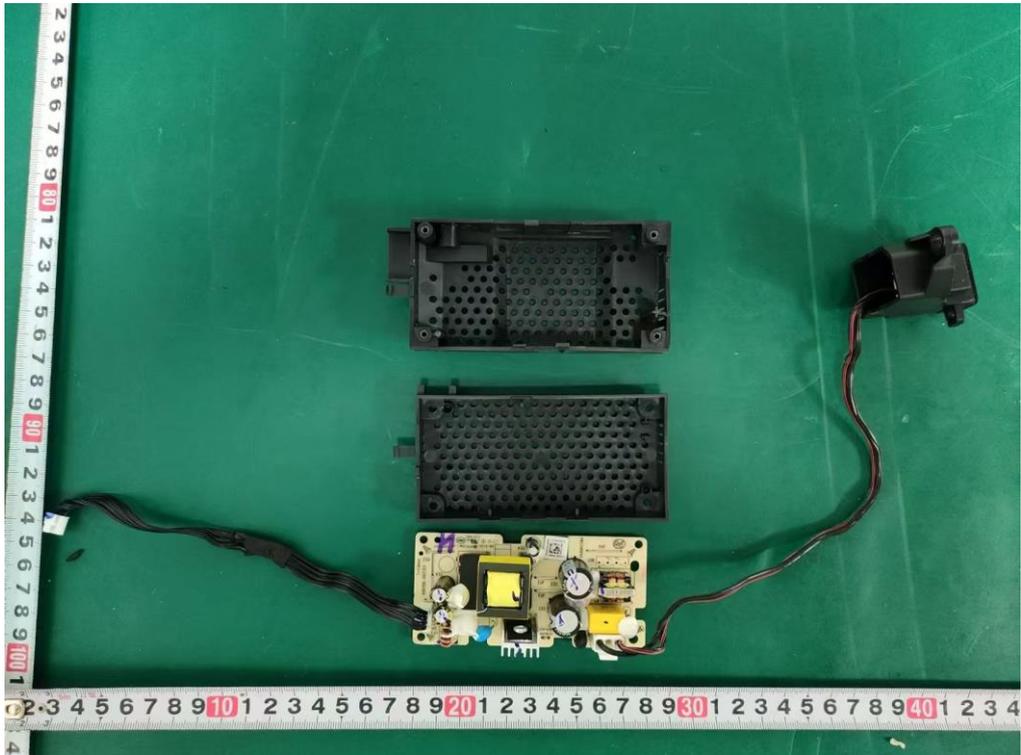
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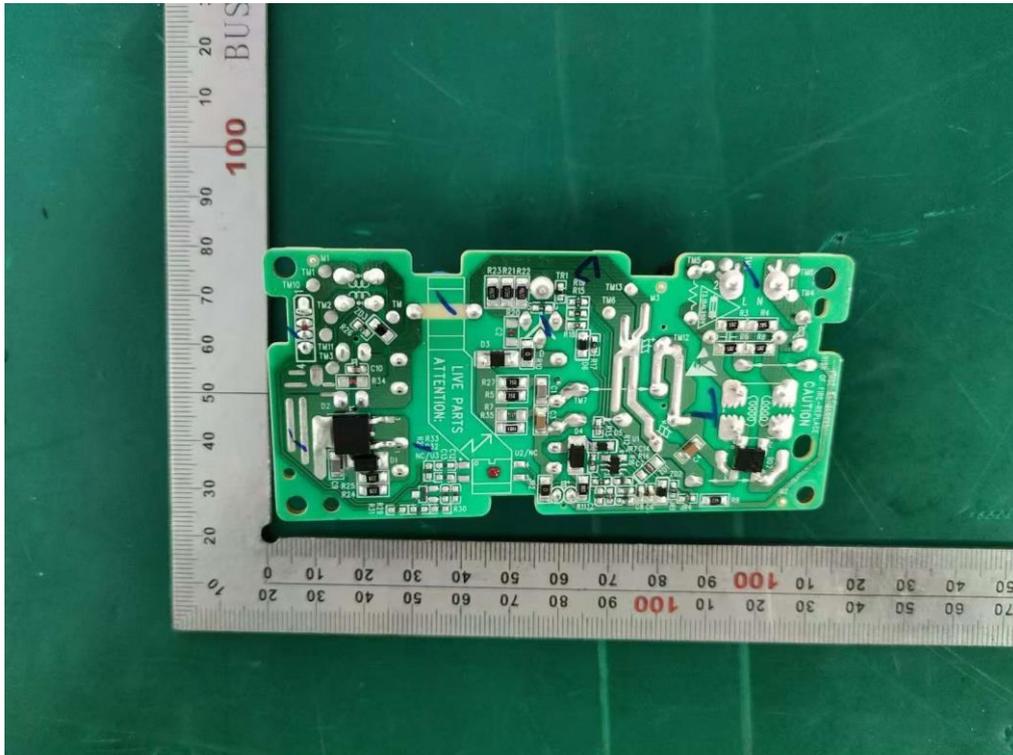
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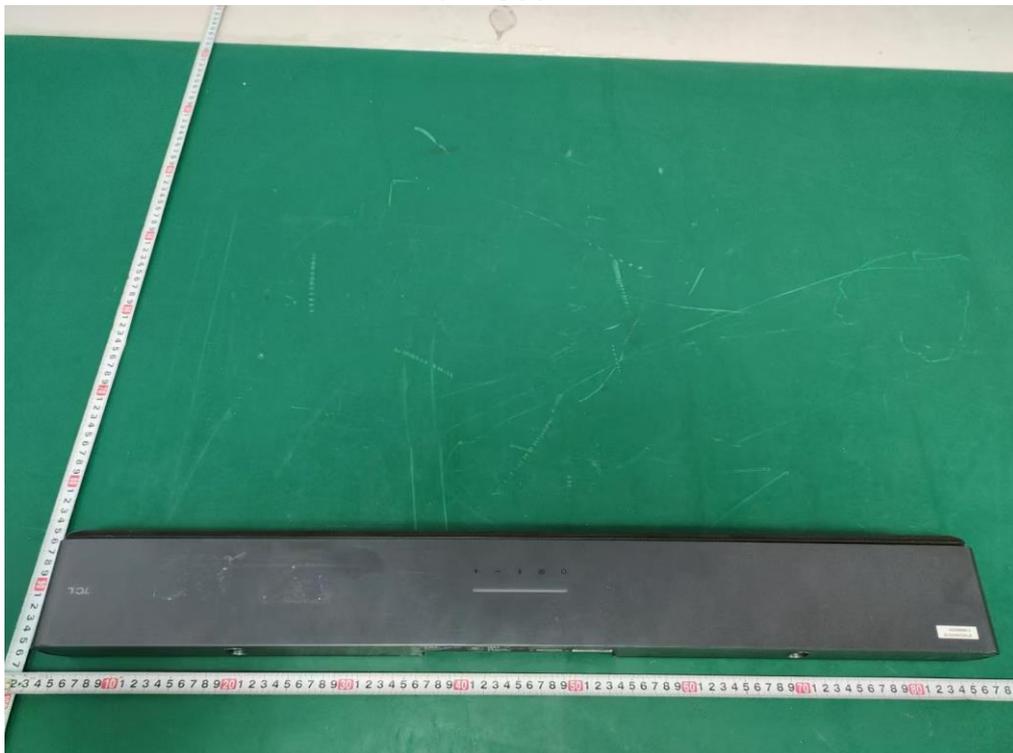


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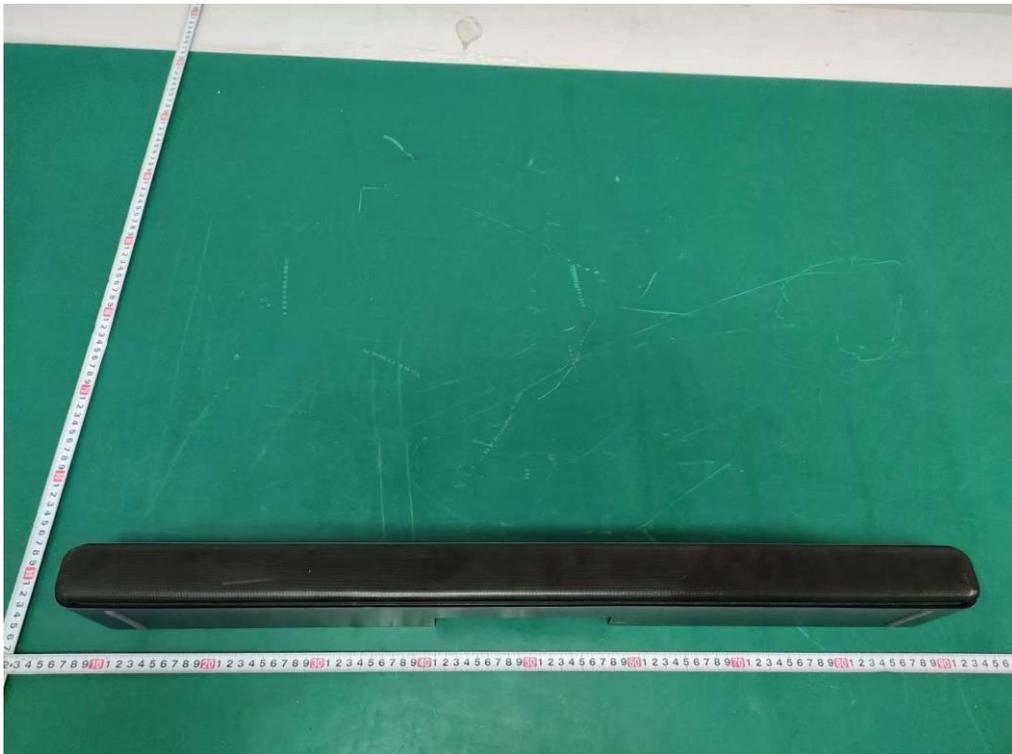
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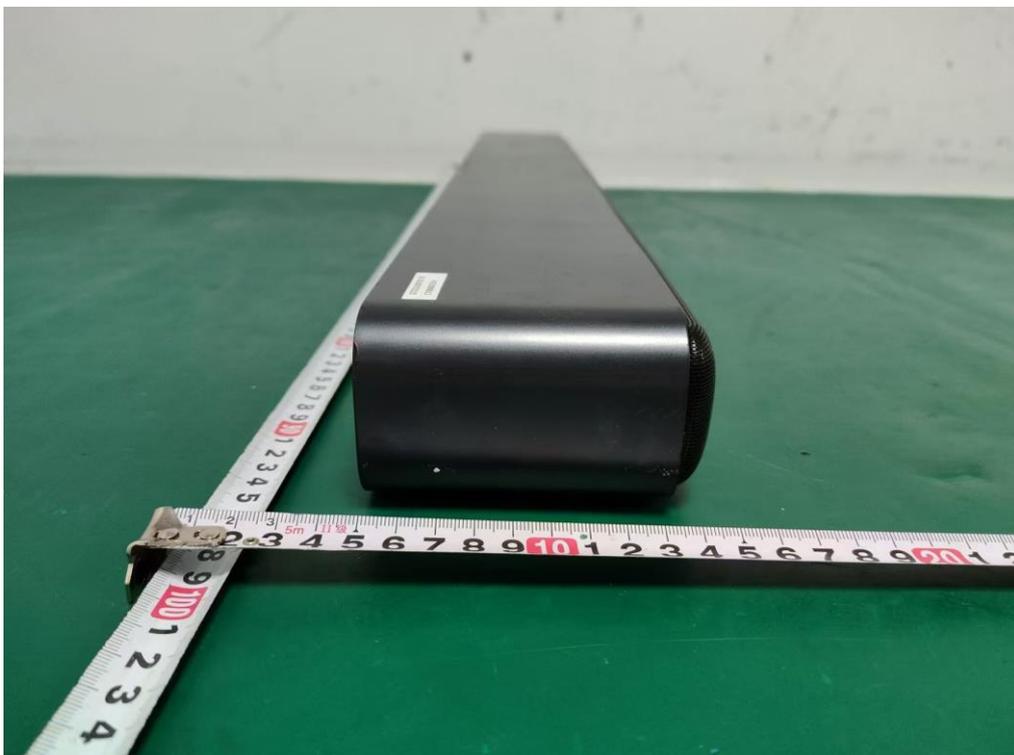
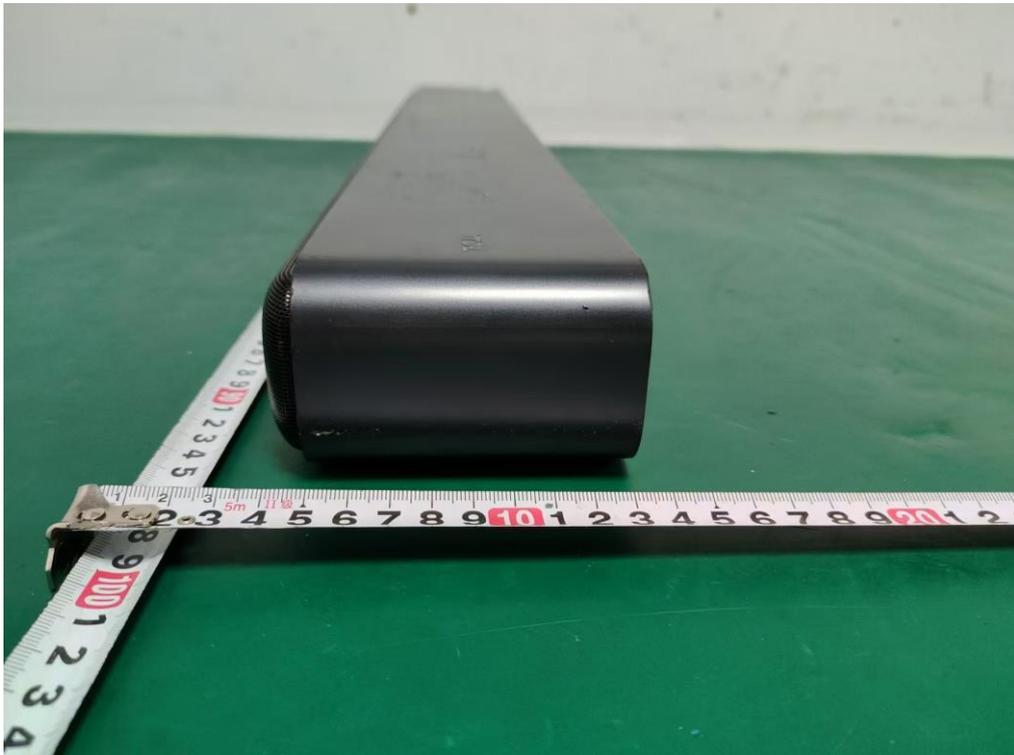
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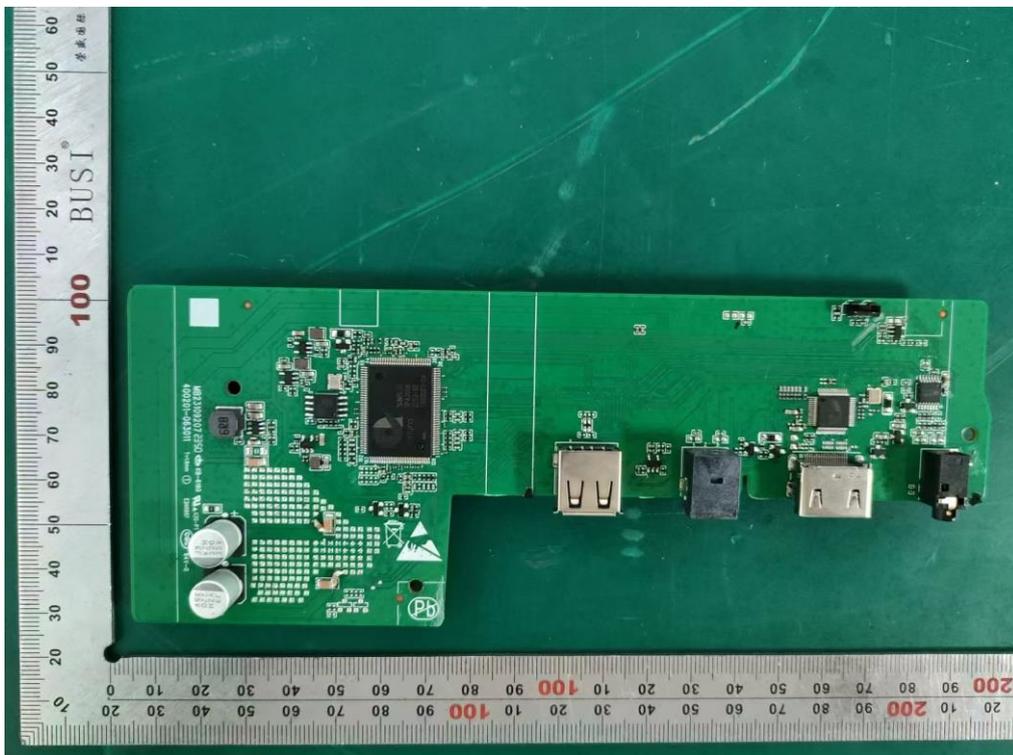
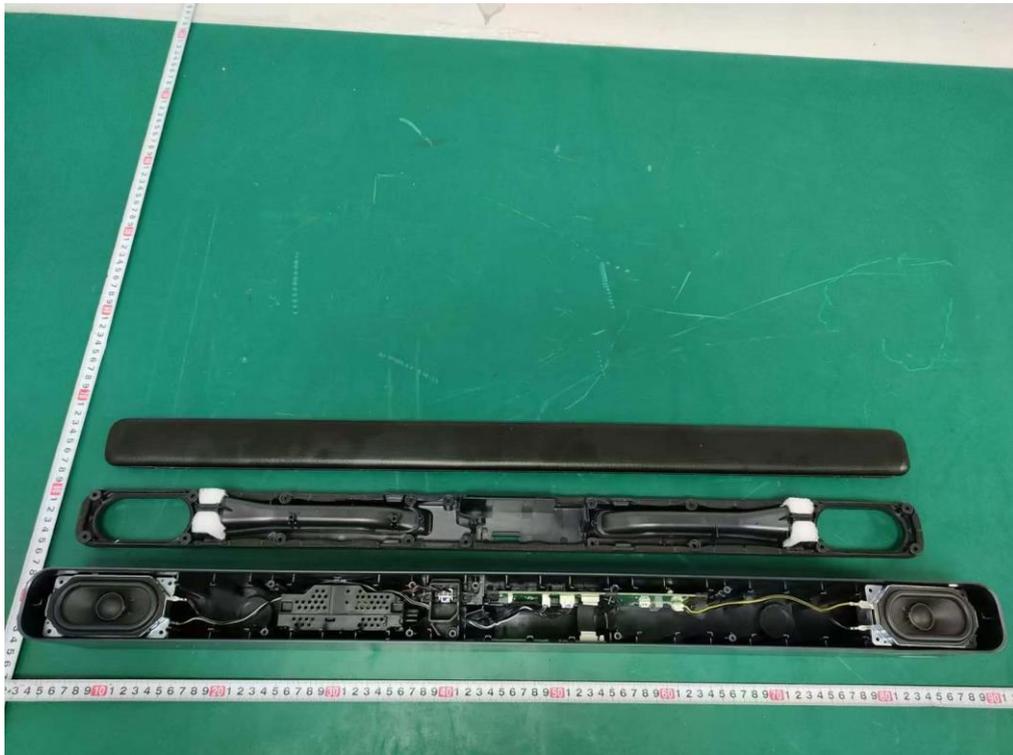
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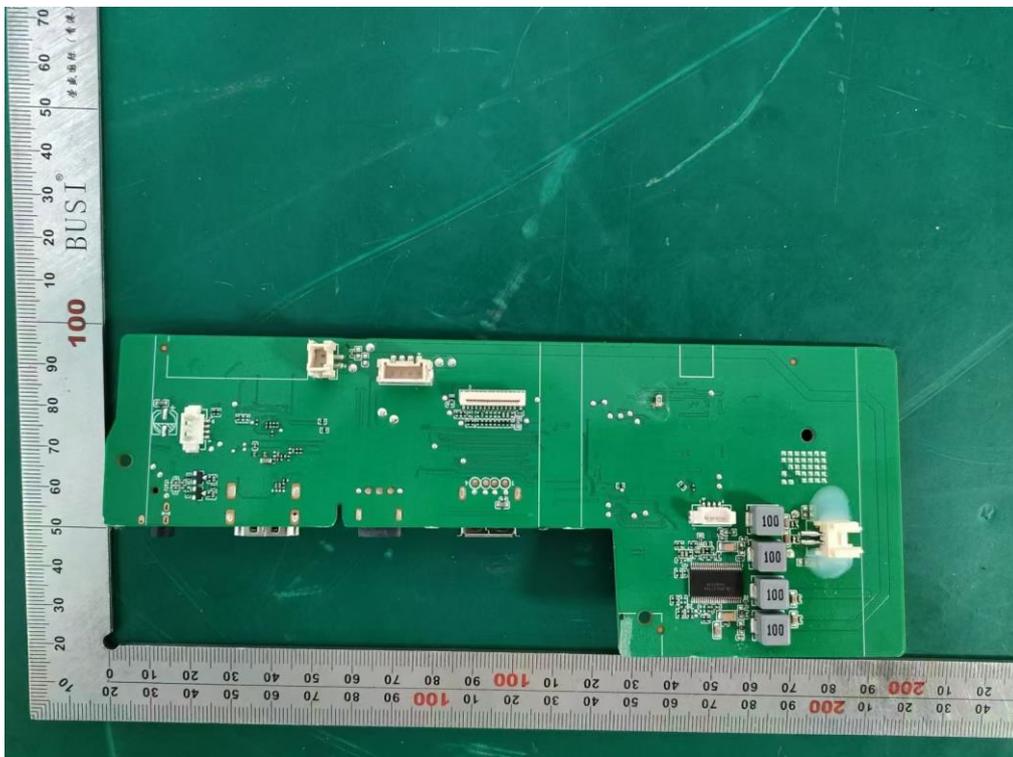
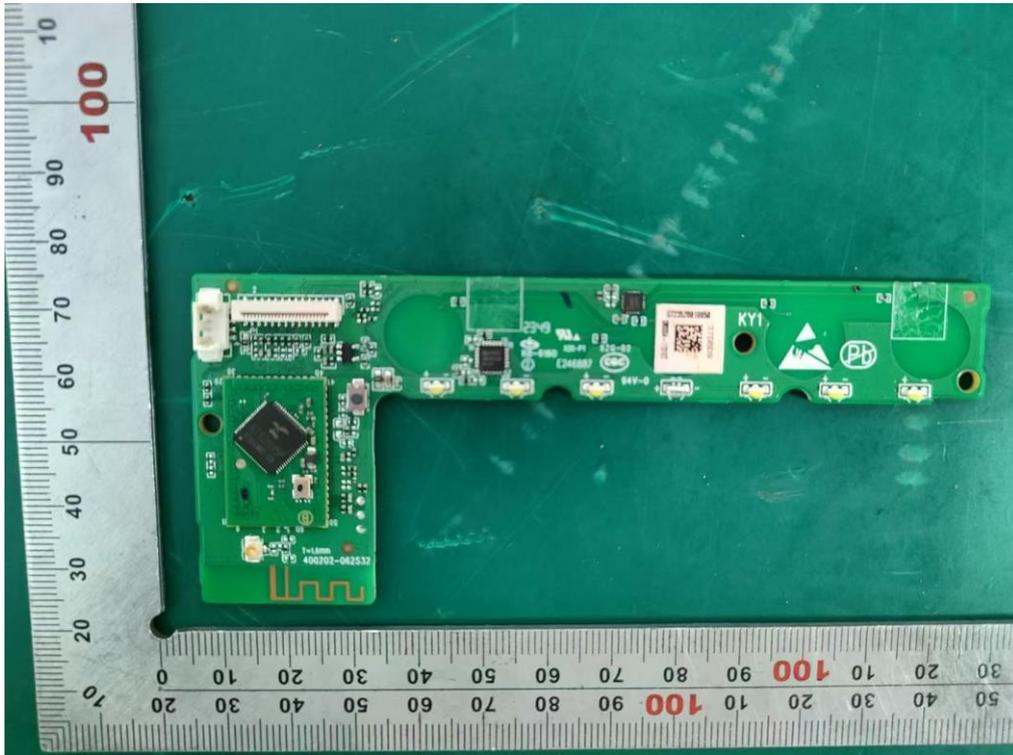
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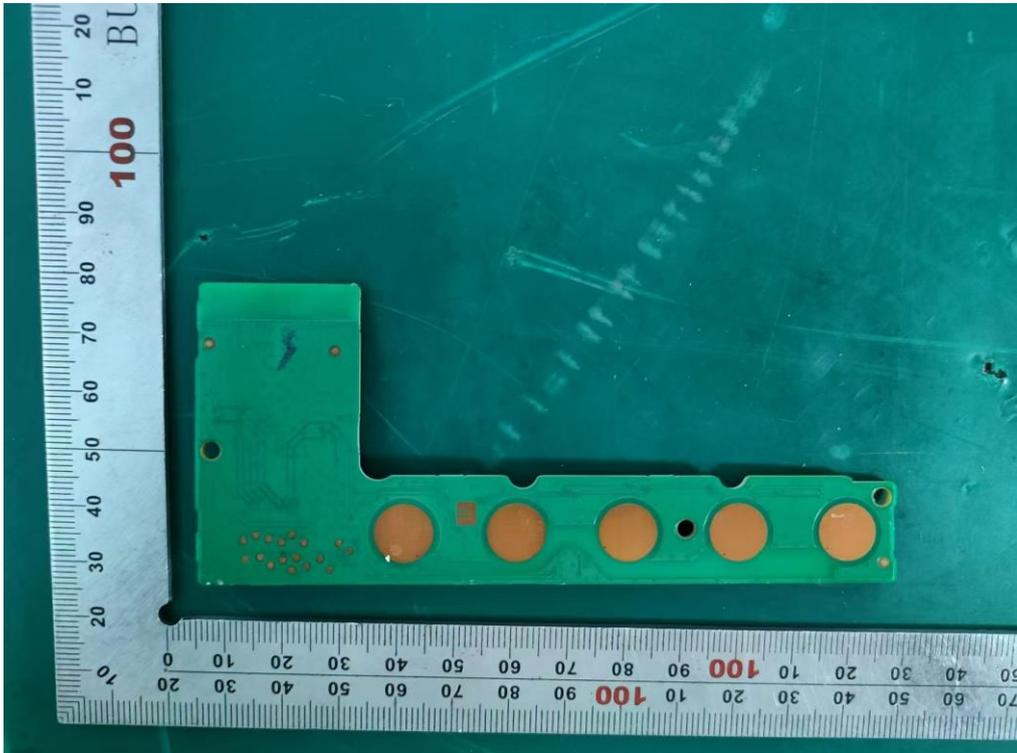


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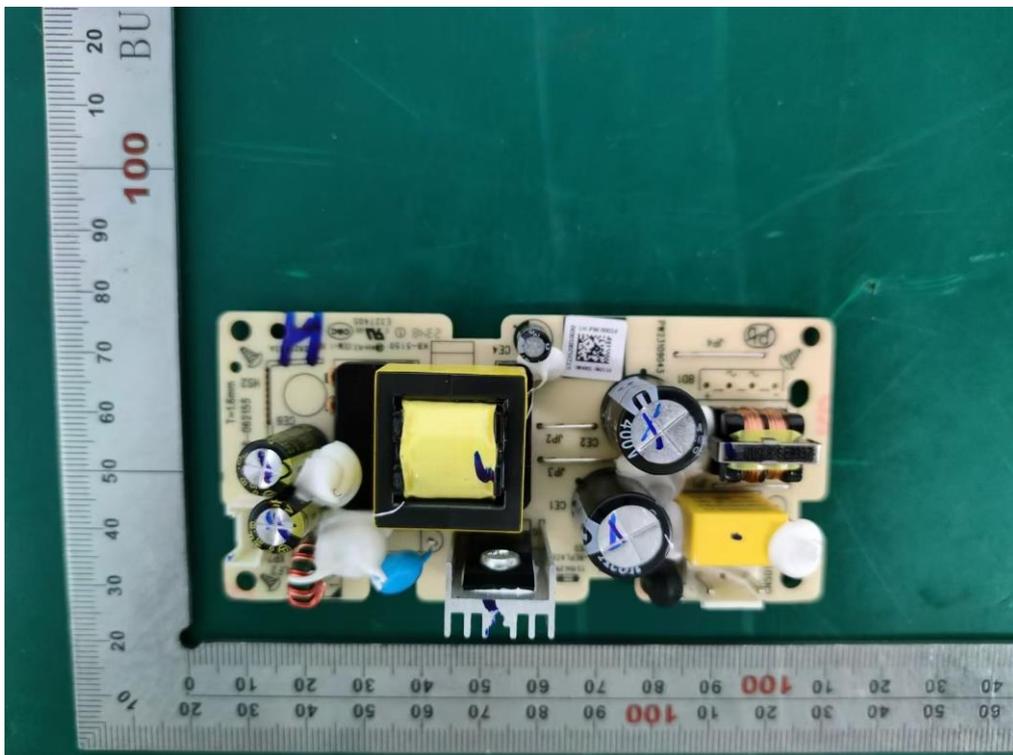
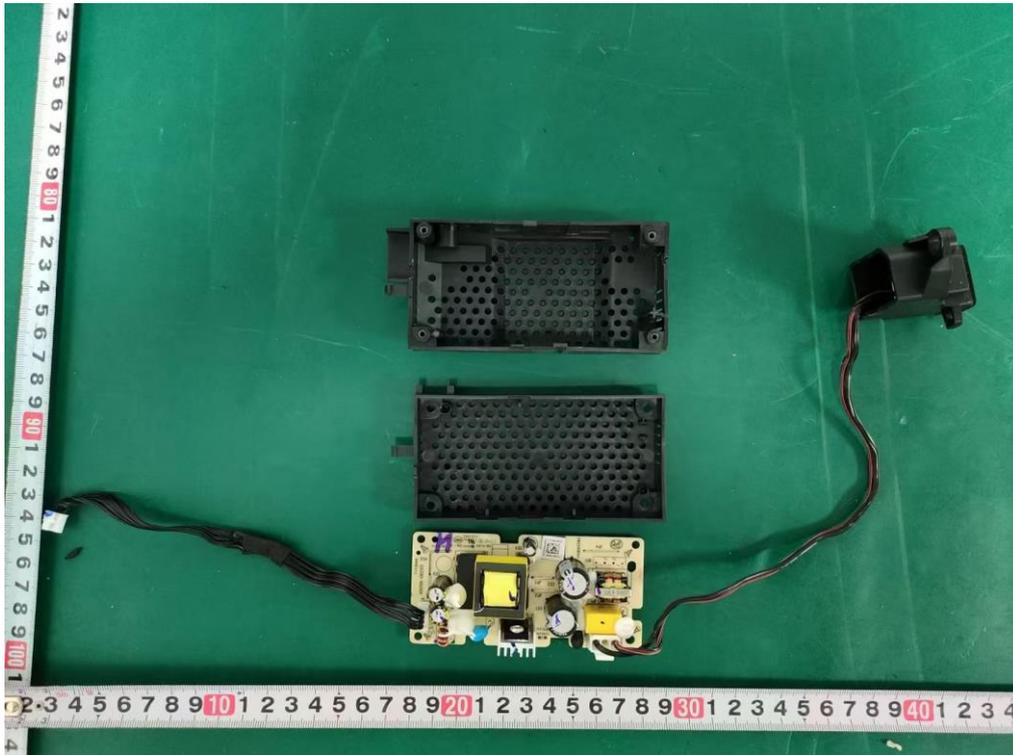
### Internal Photos

M/N: S55H7

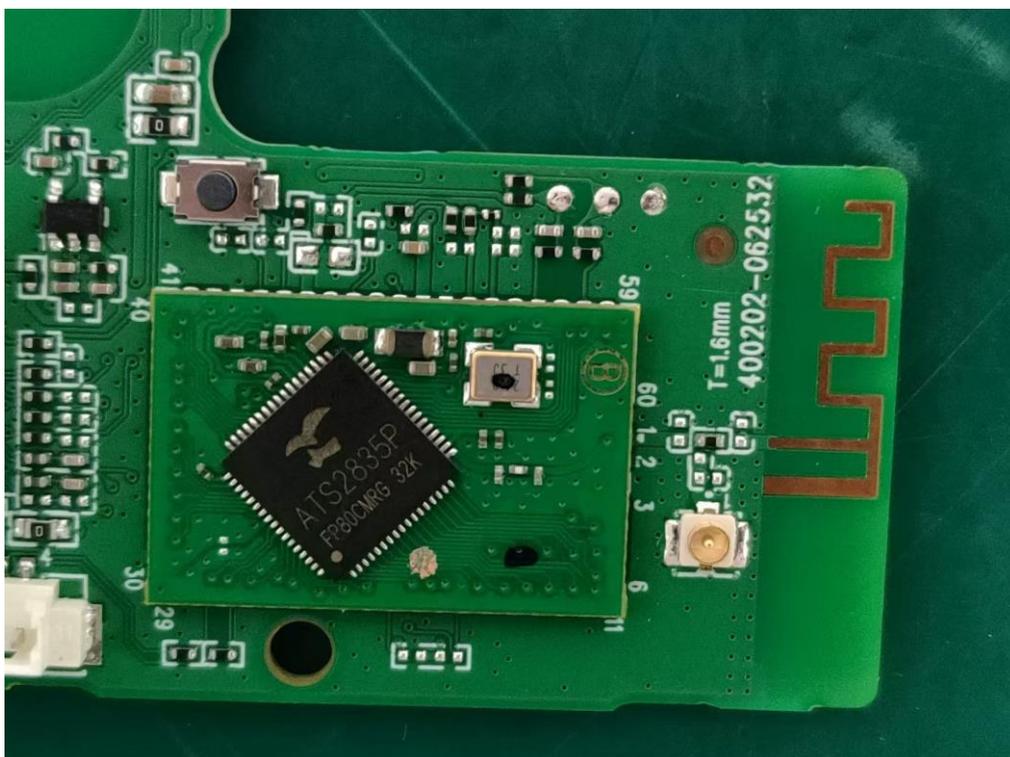
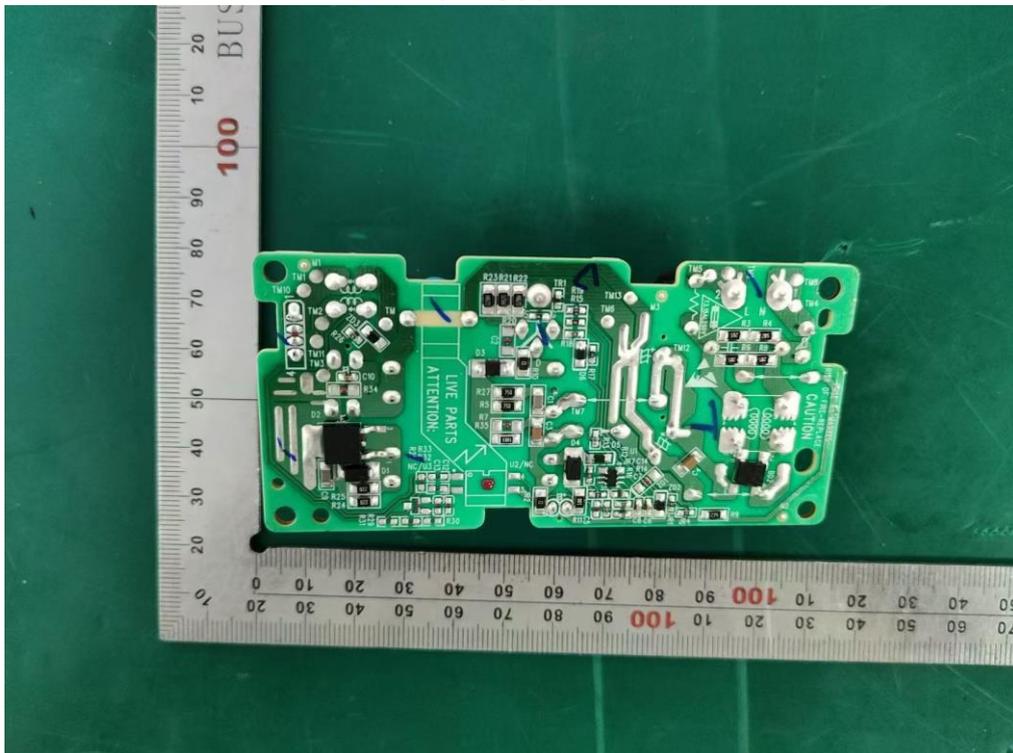


### Internal Photos

M/N: S55H7



**Internal Photos**  
M/N: S55H7



**End of Test Report**