



Report No.: TWN2408614E

Applicant: NINGBO ALLSTAR IMPORT & EXPORT CO., LTD.

Product: Collapsible 3-in-1 Wireless Charger

Model No.: #25254/AST-WR254

Trademark: N/A

Test Standards: FCC Part 15 Subpart C

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, for the evaluation of electromagnetic compatibility

Approved By

Terry Tang

Terry Tang

Manager

Dated: March 27, 2025

**Results appearing herein relate only to the sample tested**  
The technical reports is issued errors and omissions exempt and is subject to withdrawal at

**SHENZHEN TIMEWAY TESTING LABORATORIES**

**Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West,  
Tong Le Village, Nanshan District, Shenzhen, China**

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



## Special Statement:

### **FCC-Registration No.: 744189**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

### **Industry Canada (IC) —Registration No.:5205A**

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

### **A2LA (Certification Number:5013.01)**

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

### **CAB identifier: CN0033**

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## Test Report Conclusion

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## 1.0 General Details

### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.  
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China  
Telephone: +86 755 83448688  
Fax: +86 755 83442996  
Site on File with the Federal Communications Commission – United States  
Registration Number: 744189  
For 3m Anechoic Chamber

### 1.2 Applicant Details

Applicant: NINGBO ALLSTAR IMPORT & EXPORT CO., LTD.  
Address: 14-3-8, TIANHONG BUILDING, NO.1 SHUNYE STREET, LUOTUO STREET, ZHENHAI DISTRICT, NINGBO CITY, ZHEJIANG PROVINCE, 315200, CHINA

### 1.3 Description of EUT

Product: Collapsible 3-in-1 Wireless Charger  
Manufacturer: Ningbo Allstar O&E Technology Co., Ltd  
Address: No.19 Huijin Road, Luotuo Street, Zhenhai, Ningbo, China  
Trademark: N/A  
Additional Trade Name: N/A  
Model Number: #25254/AST-WR254  
Additional Model Name: N/A  
Rating: Type-C Input: DC9V/3A  
Wireless Output for Phones: 15W (Max.)  
Wireless Output for Earbuds: 3W (Max.)  
Wireless Output for Watch: 2W (Max.)

Remark: All wireless outputs were tested. In the report, only the worst case was recorded and 15W+3W+2W was the worst case

Hardware Version: AST-WR254  
Software Version: R9813D  
Serial No.: 25/02  
Operation Frequency: 111.5kHz-205kHz  
Test Frequency: 175kHz  
Modulation Type: MSK  
Antenna Designation: Inductive Loop Antenna with gain 0dBi Max (Declared by the applicant)

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2025-03-10 to 2025-03-27

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 9kHz-30MHz Uncertainty =4.3dB

Radiated Emissions below 30MHz-1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

1.7 Test Engineer

*Andy Xing*

The sample tested by

Print Name: Andy Xing

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## 2.0 Test Equipment

Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic	--	--	N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2024-07-12	2025-07-11
RF Cable	Zhengdi	7m	--	2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

## 2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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### 3.0 Technical Details

#### 3.1 Summary of test results

**The EUT has been tested according to the following specifications:**

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna requirements	<b>Pass</b>	Compliant
FCC Part 15, Paragraph 15.207	Conducted Emission Test	<b>Pass</b>	Compliant
FCC Part 15, Paragraph 15.209 (a) (f)	General Requirement	<b>Pass</b>	Compliant
FCC Part 15, Paragraph 15.215	20dB Bandwidth Testing	<b>Pass</b>	Compliant

#### 3.2 Test Standards

**FCC Part 15 Subpart C , ANSI C63.4 :2014 and ANSI C63.10 :2013**

### 4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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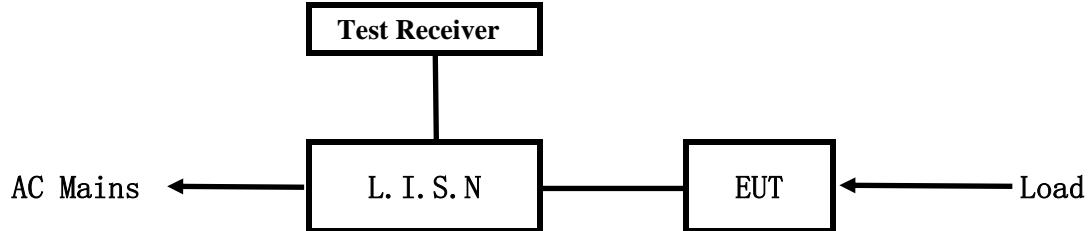
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## 5.0 Power Line Conducted Emission Test

### 5.1 Schematics of the test



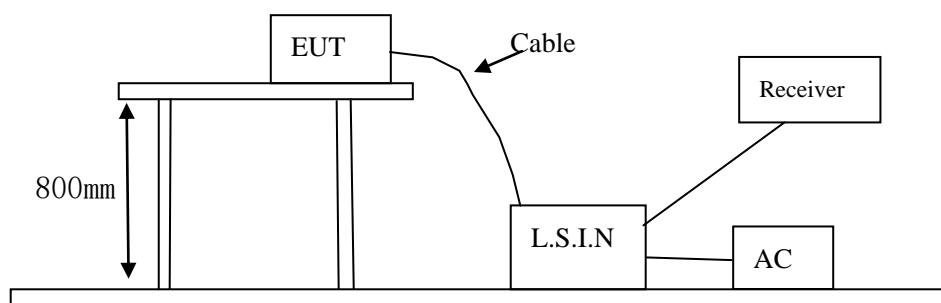
EUT: Equipment Under Test

### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

#### A. EUT

Device	Manufacturer	Model	FCC ID
Collapsible 3-in-1 Wireless Charger	Ningbo Allstar O&E Technology Co.,Ltd	#25254/AST-WR254	2A92I-AST-WR254

#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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### C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Xiaomi	MDY-12-EF	Input: 100-240V~, 50/60Hz, 1.7A; Output: DC5V, 3A; 5-20A; 6.2- 3.25A(67W Max)

#### 5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10 -2013.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

#### 5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB $\mu$ V)	
	Q as-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

Notes:

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

#### 5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz. (The average detector is necessary when the Quasi-peak emission level beyond the average Limit.)

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**Test Mode: Wireless Output (Phone:15W+AirPod: 3W+Watch: 2W)**

**A: Conducted Emission on Live Terminal (150kHz to 30MHz)**

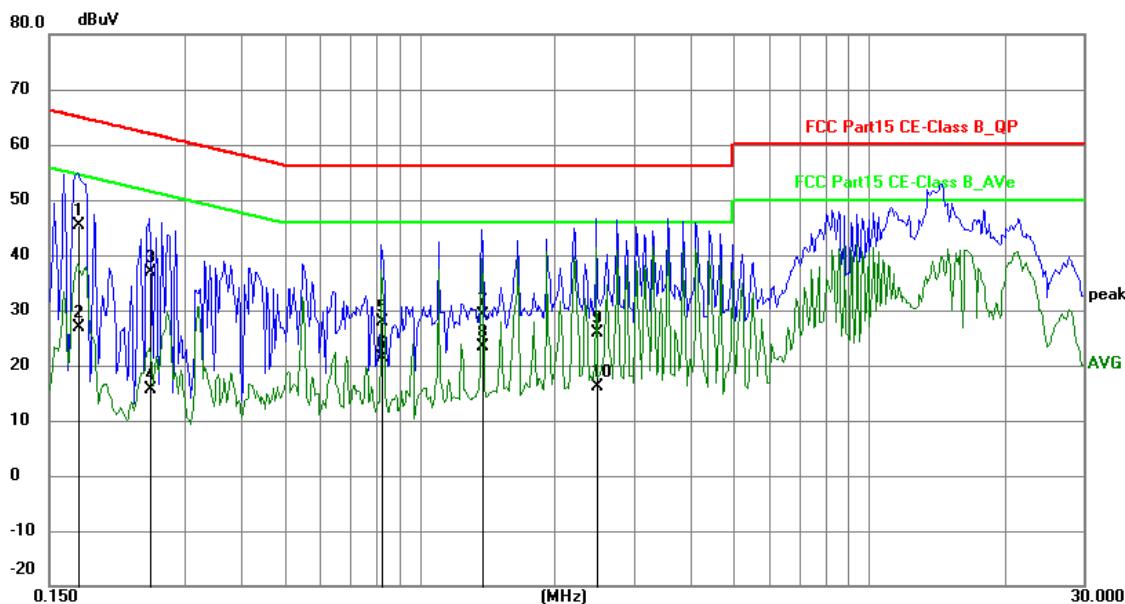
**EUT Operating Environment**

Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Keep Transmitting**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1734	35.69	9.77	45.46	64.80	-19.34	QP	P
2	0.1734	17.14	9.77	26.91	54.80	-27.89	AVG	P
3	0.2514	27.16	9.75	36.91	61.71	-24.80	QP	P
4	0.2514	5.97	9.75	15.72	51.71	-35.99	AVG	P
5	0.8247	18.00	9.78	27.78	56.00	-28.22	QP	P
6	0.8247	11.58	9.78	21.36	46.00	-24.64	AVG	P
7	1.3785	19.38	9.79	29.17	56.00	-26.83	QP	P
8	1.3785	13.54	9.79	23.33	46.00	-22.67	AVG	P
9	2.4782	16.07	9.82	25.89	56.00	-30.11	QP	P
10	2.4782	6.42	9.82	16.24	46.00	-29.76	AVG	P

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**Test Mode: Wireless Output (Phone:15W+AirPod: 3W+Watch: 2W)**

**B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

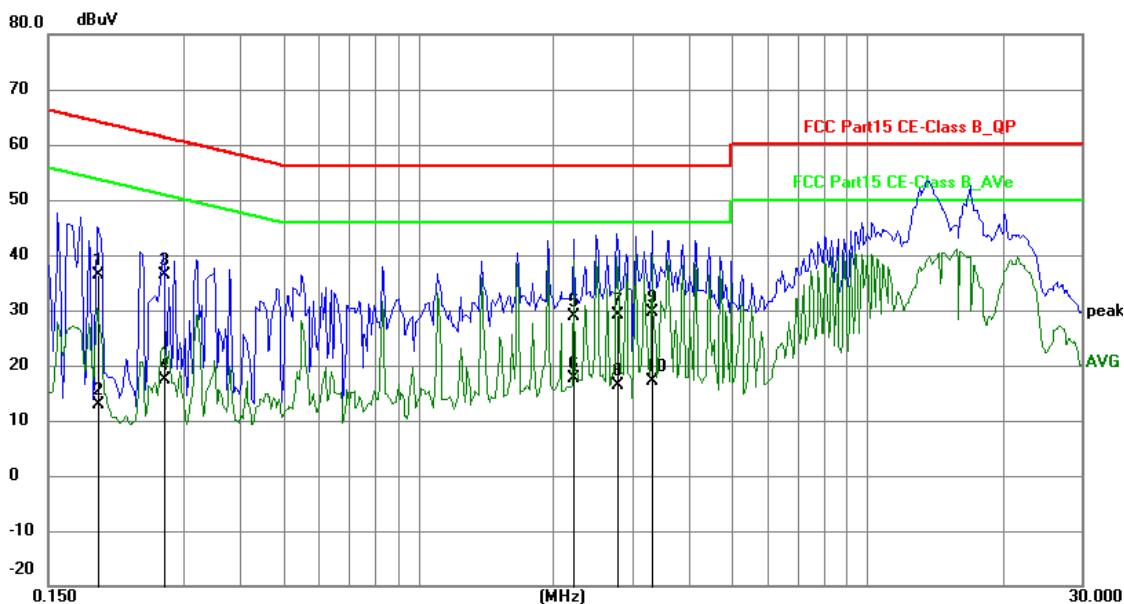
**EUT Operating Environment**

Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Keep Transmitting**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1929	26.51	9.75	36.26	63.91	-27.65	QP	P
2	0.1929	3.10	9.75	12.85	53.91	-41.06	AVG	P
3	0.2709	26.70	9.75	36.45	61.09	-24.64	QP	P
4	0.2709	7.67	9.75	17.42	51.09	-33.67	AVG	P
5	2.2170	18.96	9.81	28.77	56.00	-27.23	QP	P
6	2.2170	7.83	9.81	17.64	46.00	-28.36	AVG	P
7	2.7708	19.35	9.83	29.18	56.00	-26.82	QP	P
8	2.7708	6.53	9.83	16.36	46.00	-29.64	AVG	P
9	3.3237	19.69	9.86	29.55	56.00	-26.45	QP	P
10	3.3237	7.17	9.86	17.03	46.00	-28.97	AVG	P

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**Test Mode: Wireless Output (Phone:15W)**

**C: Conducted Emission on Live Terminal (150kHz to 30MHz)**

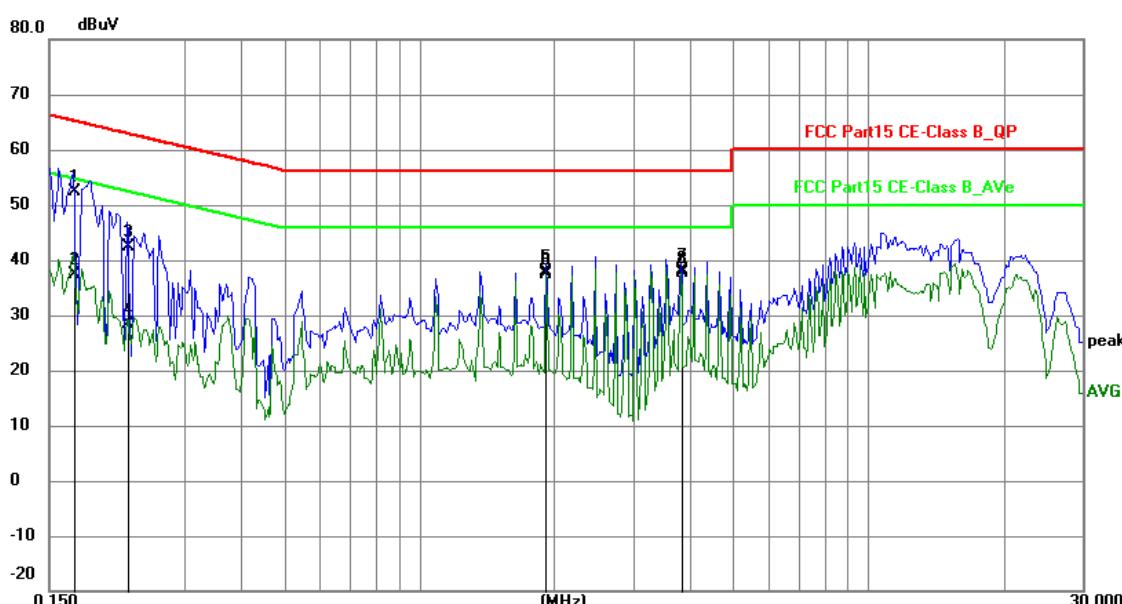
**EUT Operating Environment**

Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Keep Transmitting**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1695	42.65	9.77	52.42	64.98	-12.56	QP	P
2	0.1695	27.50	9.77	37.27	54.98	-17.71	AVG	P
3	0.2241	32.65	9.75	42.40	62.67	-20.27	QP	P
4	0.2241	18.65	9.75	28.40	52.67	-24.27	AVG	P
5	1.9167	27.96	9.80	37.76	56.00	-18.24	QP	P
6	1.9167	27.63	9.80	37.43	46.00	-8.57	AVG	P
7	3.8307	28.26	9.88	38.14	56.00	-17.86	QP	P
8	3.8307	27.86	9.88	37.74	46.00	-8.26	AVG	P

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**Test Mode: Wireless Output (Phone:15W)**

**D: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

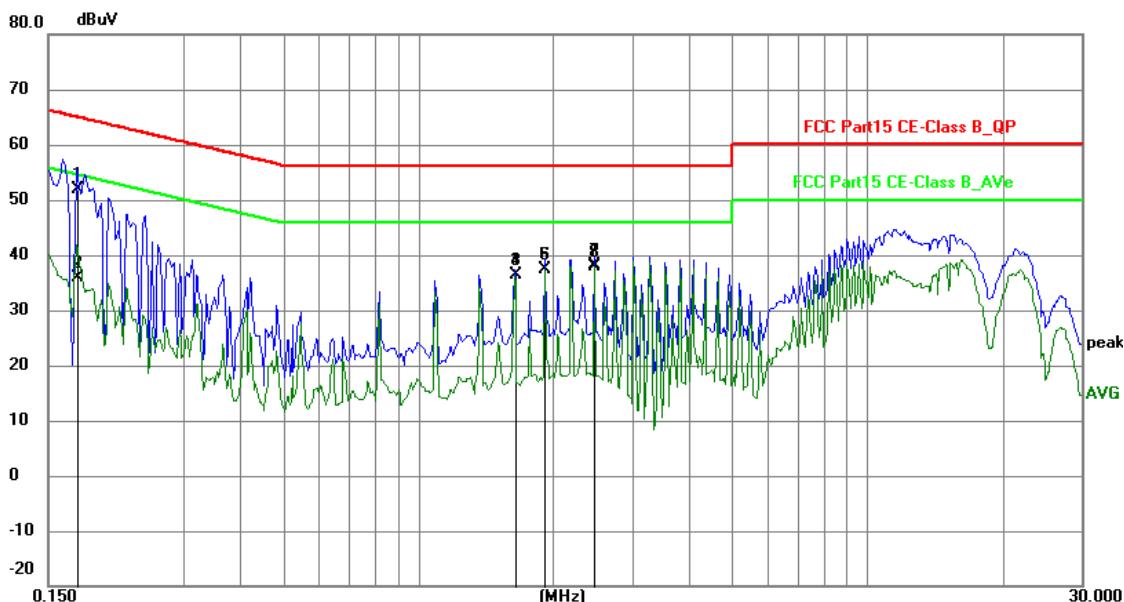
**EUT Operating Environment**

Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Keep Transmitting**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1734	42.15	9.77	51.92	64.80	-12.88	QP	P
2	0.1734	26.11	9.77	35.88	54.80	-18.92	AVG	P
3	1.6437	26.60	9.80	36.40	56.00	-19.60	QP	P
4	1.6437	26.48	9.80	36.28	46.00	-9.72	AVG	P
5	1.9167	27.68	9.80	37.48	56.00	-18.52	QP	P
6	1.9167	27.63	9.80	37.43	46.00	-8.57	AVG	P
7	2.4627	28.24	9.82	38.06	56.00	-17.94	QP	P
8	2.4627	27.97	9.82	37.79	46.00	-8.21	AVG	P

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**Test Mode: Wireless Output (AirPod: 3W)**

**E: Conducted Emission on Live Terminal (150kHz to 30MHz)**

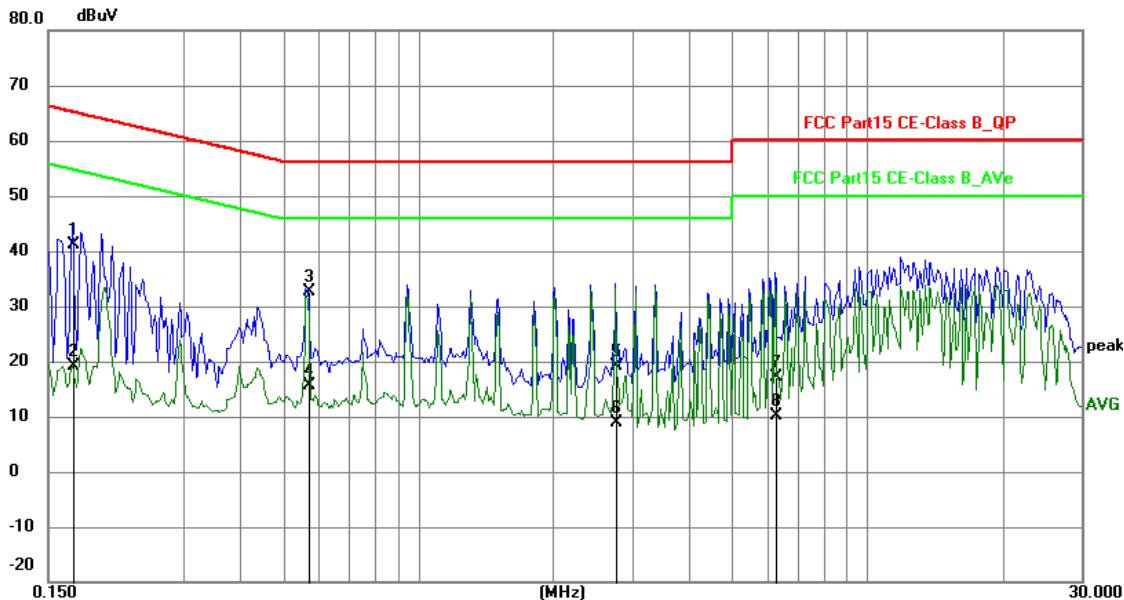
**EUT Operating Environment**

Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Keep Transmitting**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1695	31.24	9.77	41.01	64.98	-23.97	QP	P
2	0.1695	9.41	9.77	19.18	54.98	-35.80	AVG	P
3	0.5673	22.92	9.77	32.69	56.00	-23.31	QP	P
4	0.5673	5.88	9.77	15.65	46.00	-30.35	AVG	P
5	2.7591	9.18	9.83	19.01	56.00	-36.99	QP	P
6	2.7591	-0.97	9.83	8.86	46.00	-37.14	AVG	P
7	6.2409	7.13	9.98	17.11	60.00	-42.89	QP	P
8	6.2409	0.20	9.98	10.18	50.00	-39.82	AVG	P

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**Test Mode: Wireless Output (AirPod: 3W)**

**F: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

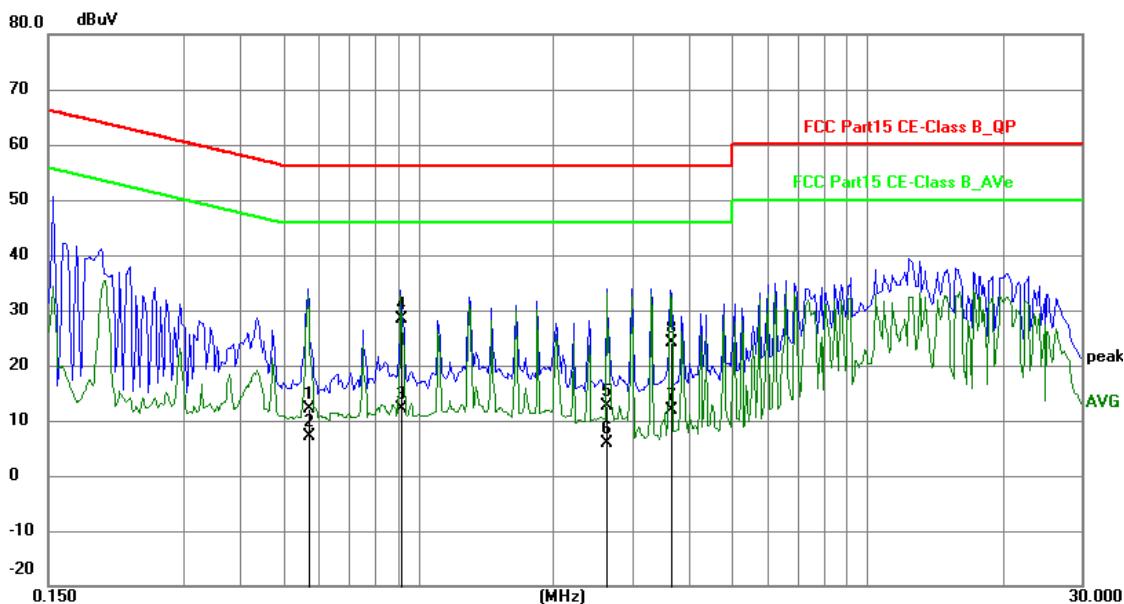
**EUT Operating Environment**

Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Keep Transmitting**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.5673	2.43	9.77	12.20	56.00	-43.80	QP	P
2	0.5673	-2.54	9.77	7.23	46.00	-38.77	AVG	P
3	0.9183	2.23	9.79	12.02	56.00	-43.98	QP	P
4	0.9183	18.47	9.79	28.26	46.00	-17.74	AVG	P
5	2.6226	2.68	9.83	12.51	56.00	-43.49	QP	P
6	2.6226	-3.84	9.83	5.99	46.00	-40.01	AVG	P
7	3.6591	1.89	9.87	11.76	56.00	-44.24	QP	P
8	3.6591	14.19	9.87	24.06	46.00	-21.94	AVG	P

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**Test Mode: Wireless Output (Watch: 2W)**

**G: Conducted Emission on Live Terminal (150kHz to 30MHz)**

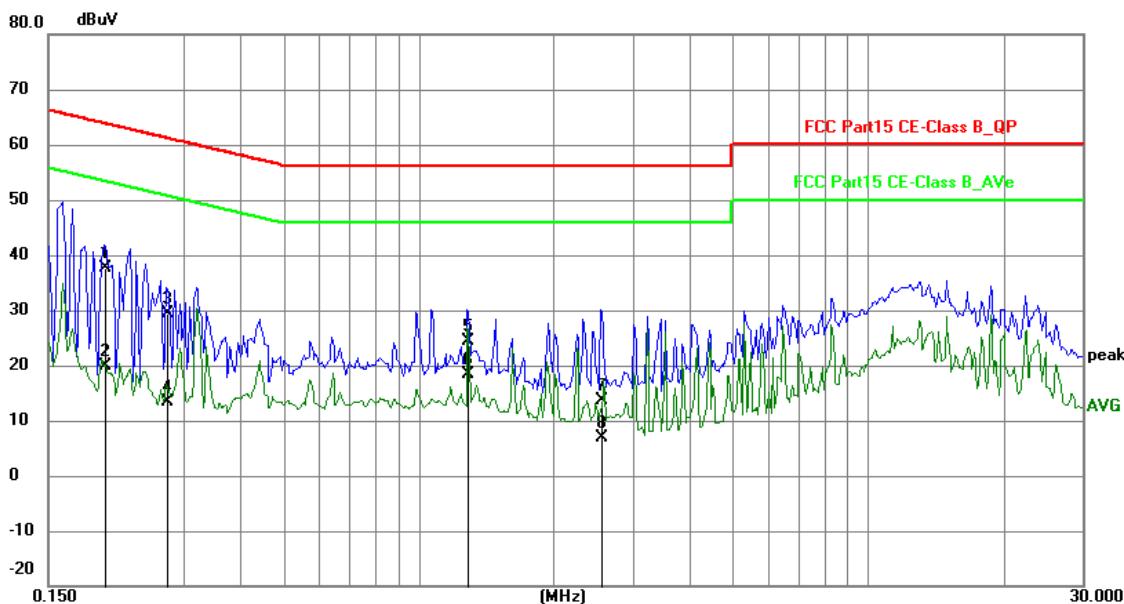
**EUT Operating Environment**

Temperature: 25 °C      Humidity: 75% RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Keep Transmitting**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2007	27.82	9.75	37.57	63.58	-26.01	QP	P
2	0.2007	10.25	9.75	20.00	53.58	-33.58	AVG	P
3	0.2748	19.68	9.75	29.43	60.97	-31.54	QP	P
4	0.2748	3.75	9.75	13.50	50.97	-37.47	AVG	P
5	1.2888	14.62	9.79	24.41	56.00	-31.59	QP	P
6	1.2888	8.48	9.79	18.27	46.00	-27.73	AVG	P
7	2.5524	3.71	9.82	13.53	56.00	-42.47	QP	P
8	2.5524	-3.01	9.82	6.81	46.00	-39.19	AVG	P

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**Test Mode: Wireless Output (Watch: 2W)**

**H: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

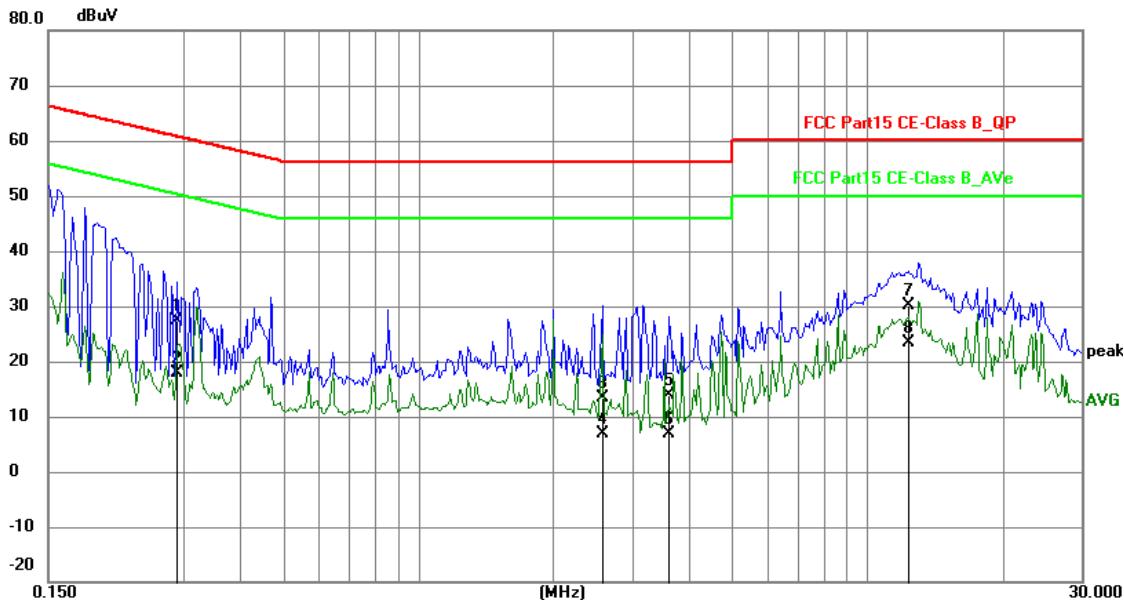
**EUT Operating Environment**

Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Keep Transmitting**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2904	17.71	9.76	27.47	60.51	-33.04	QP	P
2	0.2904	8.06	9.76	17.82	50.51	-32.69	AVG	P
3	2.5679	3.62	9.82	13.44	56.00	-42.56	QP	P
4	2.5679	-2.84	9.82	6.98	46.00	-39.02	AVG	P
5	3.6201	3.94	9.87	13.81	56.00	-42.19	QP	P
6	3.6201	-3.06	9.87	6.81	46.00	-39.19	AVG	P
7	12.3366	19.78	10.26	30.04	60.00	-29.96	QP	P
8	12.3366	13.15	10.26	23.41	50.00	-26.59	AVG	P

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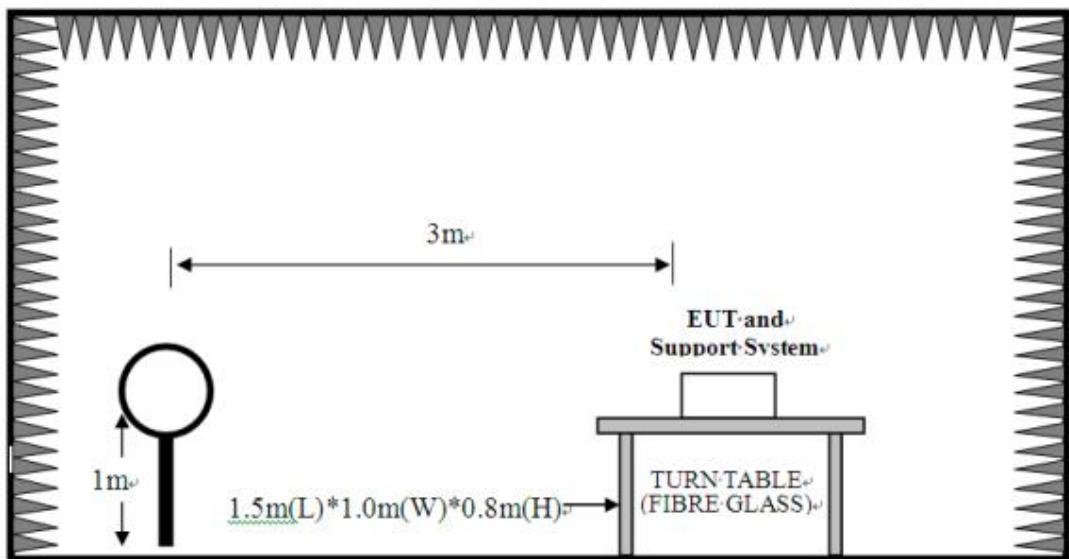
## 6.0 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at TIMEWAY EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 9 kHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with RBW=120 kHz/VBW=300 kHz; All readings from 9 kHz to 30 MHz are quasi-peak values with RBW=10 kHz/VBW=30 kHz. For the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission test in these three bands are based on measurements employing an average detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

### Block diagram of Test setup

#### 9kHz-30MHz



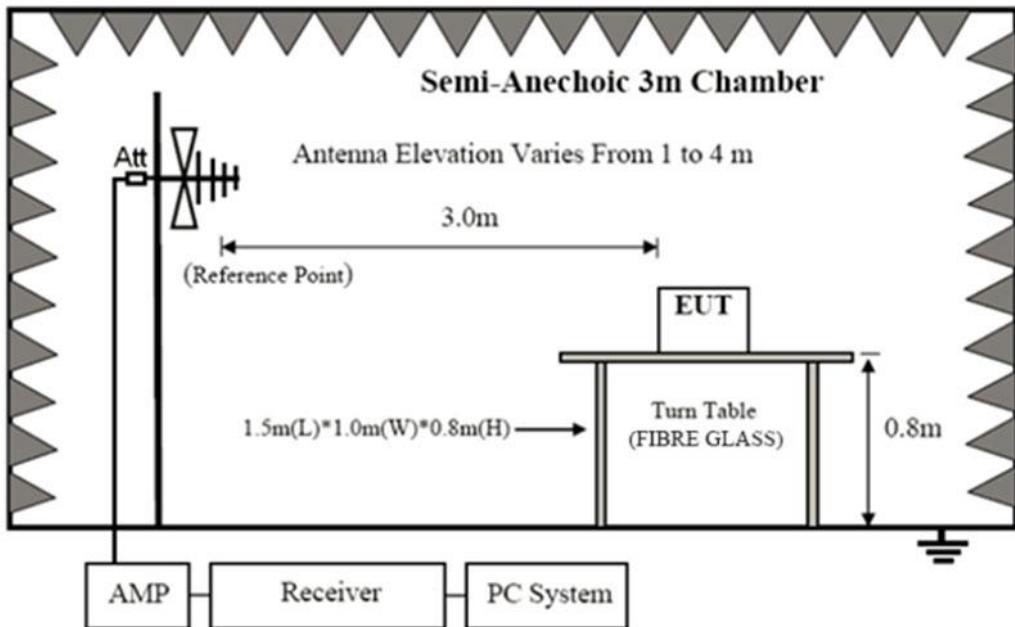
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### 30MHz-1000MHz



#### 6.2 Configuration of The EUT

Same as section 5.3 of this report

#### 6.3 EUT Operating Condition

Same as section 5.4 of this report.

#### 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

#### B. Frequencies in restricted band are compiled to limit on Paragraph 15.209.

##### Limits for frequency below 30MHz

Frequency Range (MHz)	Distance (m)	Field strength (V/m)
0.009-0.490	300	2400/F(kHz)
0.490-1.705	30	24000/F(kHz)
1.705-30	30	30

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#### Limits for frequency above 30MHz

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

1. RF Voltage (dB<sub>B</sub>uV) = 20 log RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
4. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

#### 6.5 Test result

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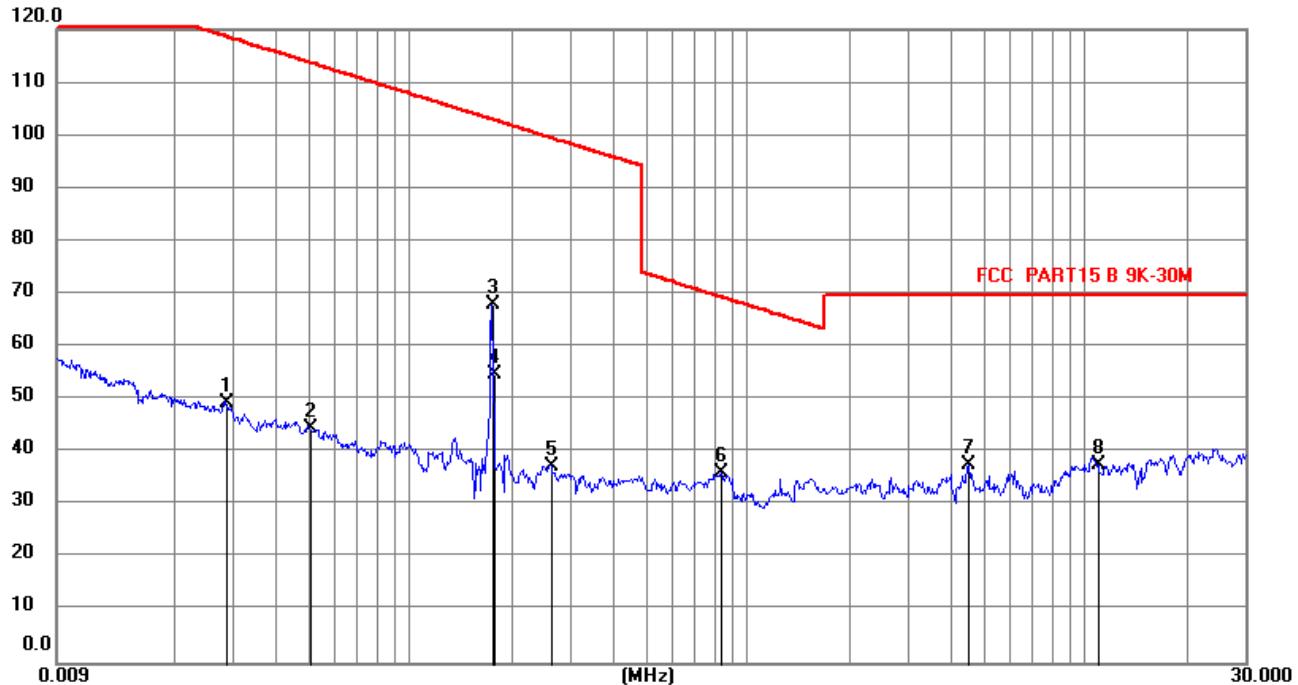
**Measurement data:**

**Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80**

**Limit dBuV/m @3m = Limit dBuV/m @30m + 40**

**Test Mode: Wireless Output (Watch: 2W)**

**9 kHz~30 MHz**



No.	Frequency (MHz)	Reading ()	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.0286	39.30	10.20	49.50	118.34	-68.84	peak	P
2	0.0509	34.87	9.80	44.67	113.36	-68.69	peak	P
3	0.1753	58.06	9.77	67.83	102.68	-34.85	peak	P
4	0.1779	44.93	9.77	54.70	102.55	-47.85	peak	P
5	0.2610	27.49	9.75	37.24	99.24	-62.00	peak	P
6	0.8374	26.24	9.78	36.02	69.16	-33.14	peak	P
7	4.5274	27.67	9.91	37.58	69.53	-31.95	peak	P
8	11.0000	27.51	10.20	37.71	69.56	-31.85	peak	P

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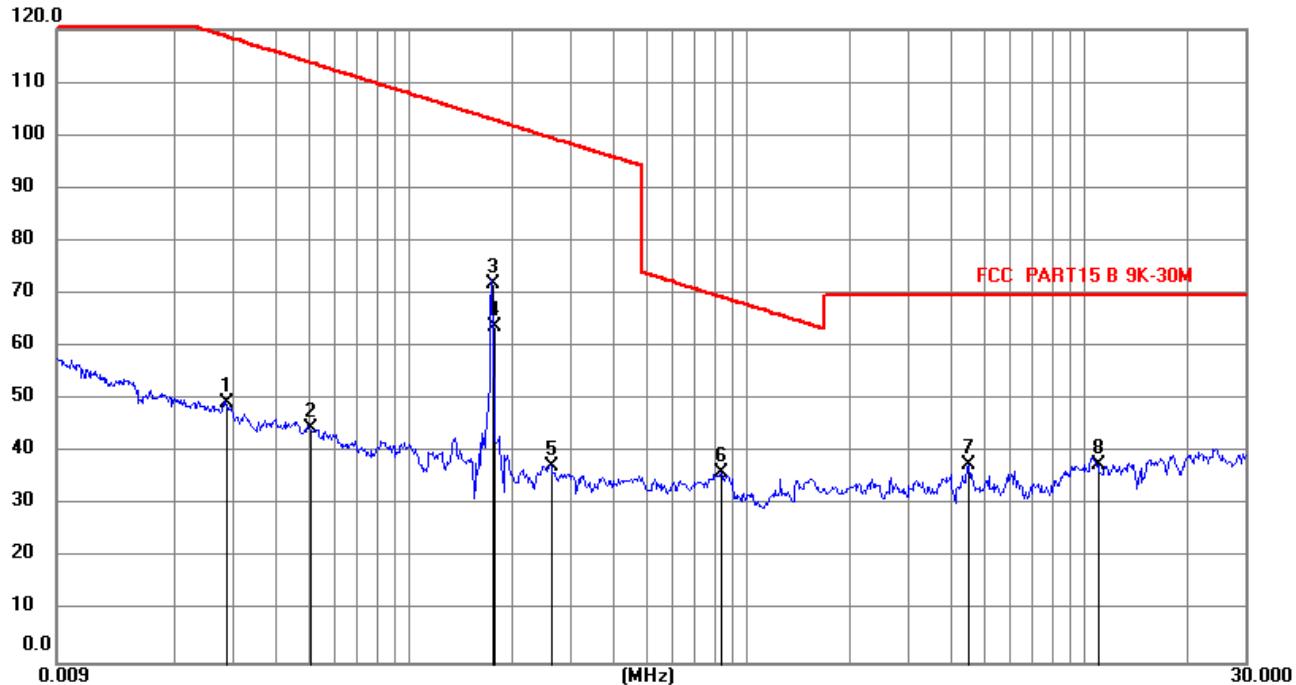
**Measurement data:**

**Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80**

**Limit dBuV/m @3m = Limit dBuV/m @30m + 40**

**Test Mode: Wireless Output (AirPod: 3W)**

**9 kHz~30 MHz**



No.	Frequency (MHz)	Reading ()	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.0286	39.30	10.20	49.50	118.34	-68.84	peak	P
2	0.0509	34.87	9.80	44.67	113.36	-68.69	peak	P
3	0.1753	62.06	9.77	71.83	102.68	-30.85	peak	P
4	0.1779	53.93	9.77	63.70	102.55	-38.85	peak	P
5	0.2610	27.49	9.75	37.24	99.24	-62.00	peak	P
6	0.8374	26.24	9.78	36.02	69.16	-33.14	peak	P
7	4.5274	27.67	9.91	37.58	69.53	-31.95	peak	P
8	11.0000	27.51	10.20	37.71	69.56	-31.85	peak	P

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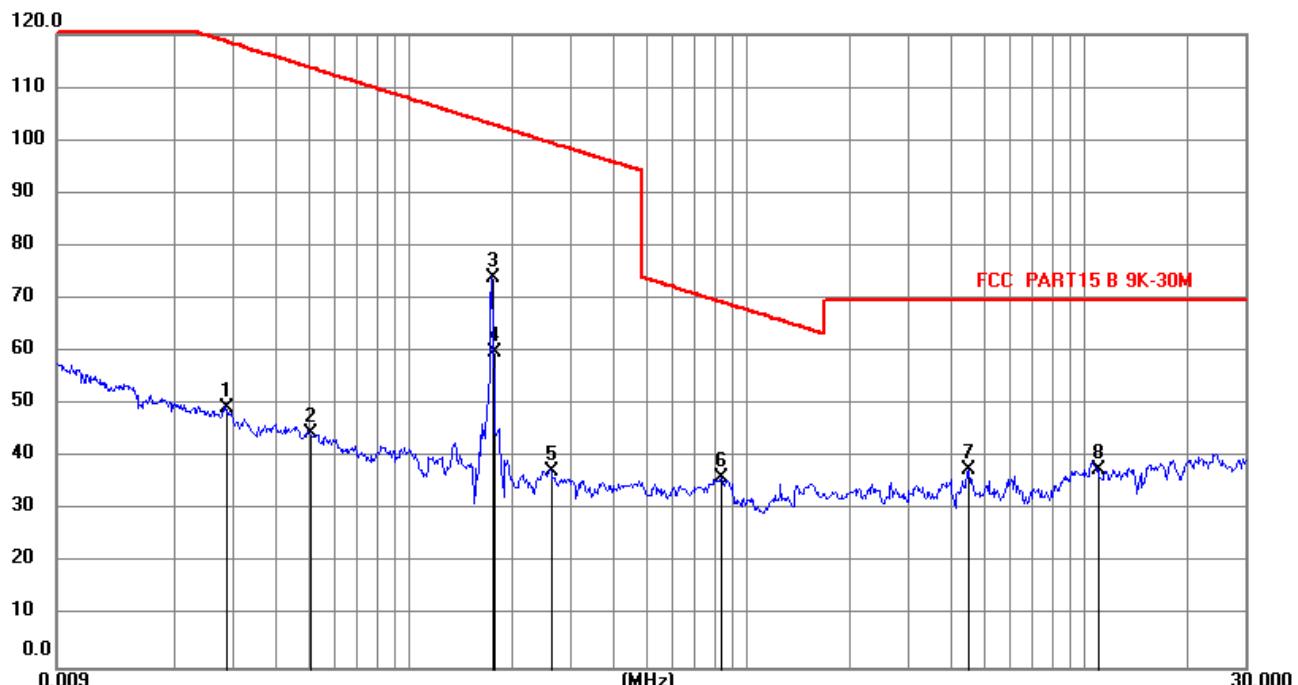
**Measurement data:**

**Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80**

**Limit dBuV/m @3m = Limit dBuV/m @30m + 40**

**Test Mode: Wireless Output (Phone:15W)**

**9 kHz~30 MHz**



No.	Frequency (MHz)	Reading ()	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.0286	39.30	10.20	49.50	118.34	-68.84	peak	P
2	0.0509	34.87	9.80	44.67	113.36	-68.69	peak	P
3	0.1753	64.25	9.77	74.02	102.68	-28.66	peak	P
4	0.1779	49.93	9.77	59.70	102.55	-42.85	peak	P
5	0.2610	27.49	9.75	37.24	99.24	-62.00	peak	P
6	0.8374	26.24	9.78	36.02	69.16	-33.14	peak	P
7	4.5274	27.67	9.91	37.58	69.53	-31.95	peak	P
8	11.0000	27.51	10.20	37.71	69.56	-31.85	peak	P

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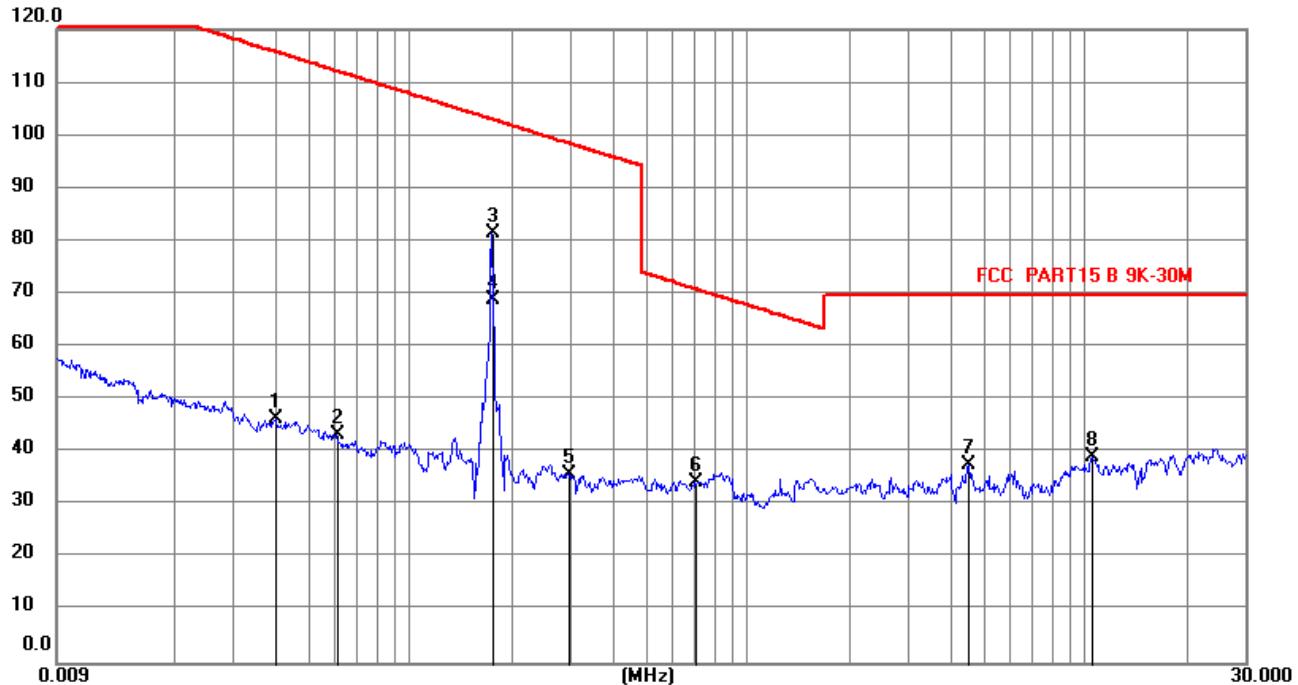
**Measurement data:**

**Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80**

**Limit dBuV/m @3m = Limit dBuV/m @30m + 40**

**Test Mode: Wireless Output (Phone:15W+AirPod: 3W+Watch: 2W)**

**9 kHz~30 MHz**



No.	Frequency (MHz)	Reading ()	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.0400	36.30	9.99	46.29	115.44	-69.15	peak	P
2	0.0606	33.61	9.78	43.39	111.85	-68.46	peak	P
3	0.1753	71.56	9.77	81.33	102.68	-21.35	peak	P
4	0.1753	59.06	9.77	68.83	102.68	-33.85	peak	P
5	0.2952	26.19	9.76	35.95	98.18	-62.23	peak	P
6	0.7024	24.65	9.78	34.43	70.68	-36.25	peak	P
7	4.5274	27.67	9.91	37.58	69.53	-31.95	peak	P
8	10.5000	28.83	10.18	39.01	69.56	-30.55	peak	P

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## A. General Radiated Emission Data

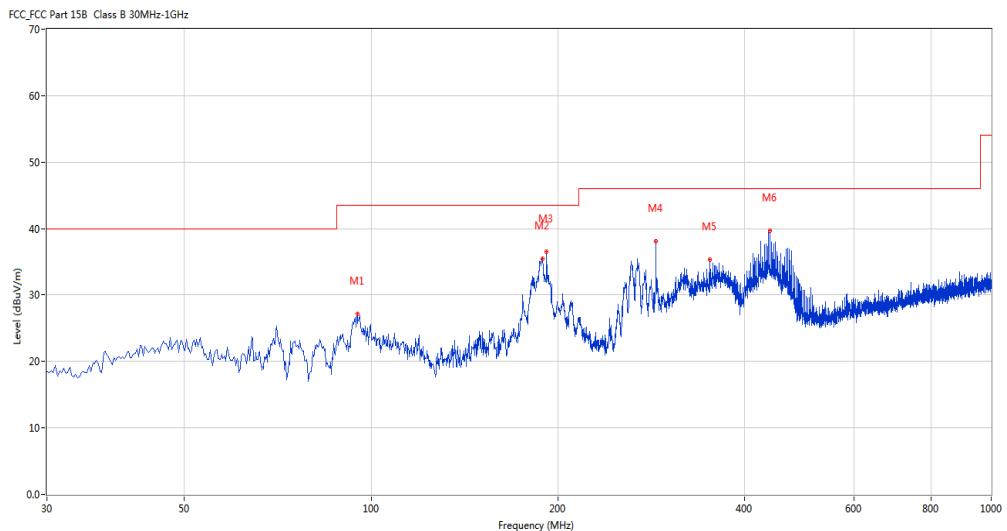
### Radiated Emission In Horizontal (30MHz---1000MHz)

EUT set Condition: Keep Transmitting

**Results:** Pass

Test Time: 2025-03-24\_08.57.19

EUT Name:	Collapsible 3-in-1 Wireless Charger	Test Standard:	FCC
Manufacturer:	Ningbo Allstar O&E Technology Co.,Ltd	Work Addition:	Keep Transmitting
Model:	#25254/AST-WR254	Load:	WIRELESS OUTPUT IPOD 3W+IWatch 2W+PHONE 15W
Temp.(°C):	25	Remark:	
Hum.:	65%	Test Voltage:	120V~, 60Hz
Test Engineer:	BETTY	Temp.(°C):	25



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	94.974	27.15	-14.28	43.5	16.35	Peak	148.00	100	Horizontal	Pass
2	188.798	35.48	-14.35	43.5	8.02	Peak	360.00	100	Horizontal	Pass
3	191.950	36.58	-14.07	43.5	6.92	Peak	5.00	100	Horizontal	Pass
4	287.956	38.12	-11.27	46.0	7.88	Peak	155.00	100	Horizontal	Pass
5	352.202	35.32	-9.46	46.0	10.68	Peak	326.00	100	Horizontal	Pass
6	439.723	39.66	-8.07	46.0	6.34	Peak	277.00	100	Horizontal	Pass

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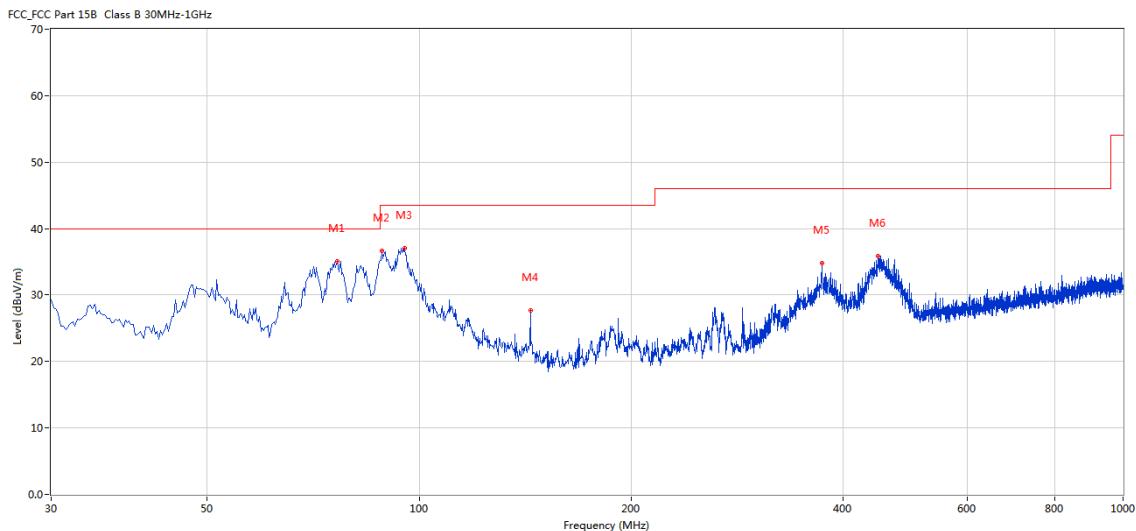
## B. General Radiated Emission Data

### Radiated Emission In Vertical (30MHz---1000MHz)

EUT set Condition: Keep Transmitting  
Results: Pass

Test Time: 2025-03-24\_08.57.48

EUT Name: Collapsible 3-in-1 Wireless Charger Test Standard: FCC  
Manufacturer: Ningbo Allstar O&E Technology Work Addition: Keep Transmitting  
Co.,Ltd  
Model: #25254/AST-WR254 Load: WIRELESS OUTPUT IPOD  
3W+IWatch 2W+PHONE 15W  
Temp.(°C): 25 Remark:  
Hum.: 65% Test Voltage: 120V~, 60Hz  
Test Engineer: BETTY Temp.(°C): 25



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	76.548	35.03	-17.60	40.0	4.97	Peak	95.00	100	Vertical	Pass
2	88.428	36.59	-15.55	43.5	6.91	Peak	18.00	100	Vertical	Pass
3	95.459	37.11	-14.22	43.5	6.39	Peak	50.00	100	Vertical	Pass
4	143.947	27.67	-17.10	43.5	15.83	Peak	291.00	100	Vertical	Pass
5	373.537	34.80	-9.48	46.0	11.20	Peak	332.00	100	Vertical	Pass
6	448.935	35.87	-8.02	46.0	10.13	Peak	41.00	100	Vertical	Pass

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## C. General Radiated Emission Data

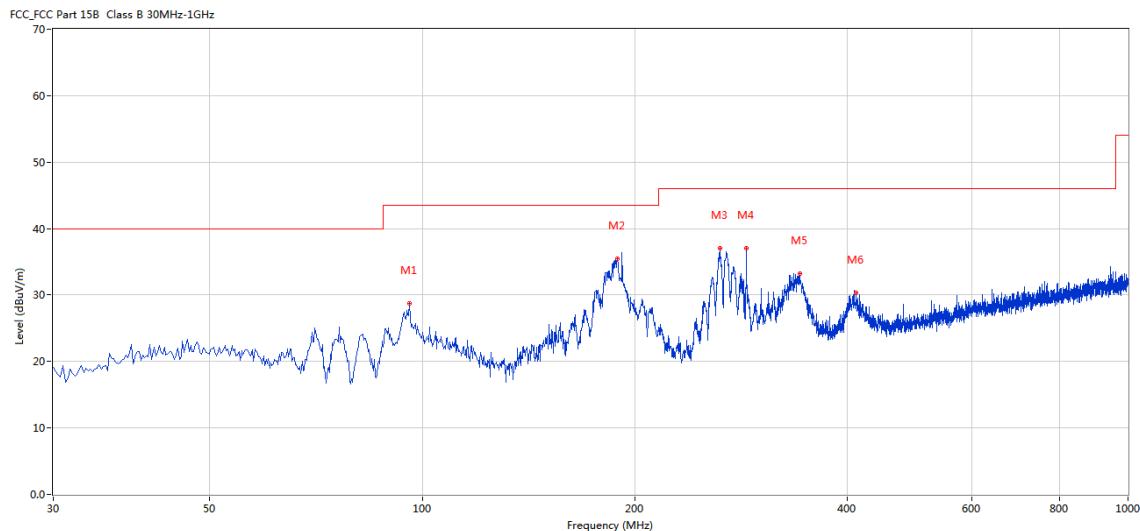
### Radiated Emission In Horizontal (30MHz---1000MHz)

EUT set Condition: Keep Transmitting

**Results:** Pass

Test Time: 2025-03-24\_08.59.14

EUT Name: Collapsible 3-in-1 Wireless Charger Test Standard: FCC  
Manufacturer: Ningbo Allstar O&E Technology Work Addition: Keep Transmitting  
Co.,Ltd  
Model: #25254/AST-WR254 Load: WIRELESS OUTPUT PHONE  
15W  
Temp.(°C): 25 Remark:  
Hum.: 65% Test Voltage: 120V~, 60Hz  
Test Engineer: BETTY Temp.(oC): 25



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	95.944	28.70	-14.16	43.5	14.80	Peak	164.00	100	Horizontal	Pass
2	188.798	35.51	-14.35	43.5	7.99	Peak	350.00	100	Horizontal	Pass
3	263.954	37.08	-11.79	46.0	8.92	Peak	148.00	100	Horizontal	Pass
4	287.956	37.02	-11.27	46.0	8.98	Peak	14.00	100	Horizontal	Pass
5	342.504	33.19	-9.69	46.0	12.81	Peak	148.00	100	Horizontal	Pass
6	411.842	30.29	-8.47	46.0	15.71	Peak	113.00	100	Horizontal	Pass

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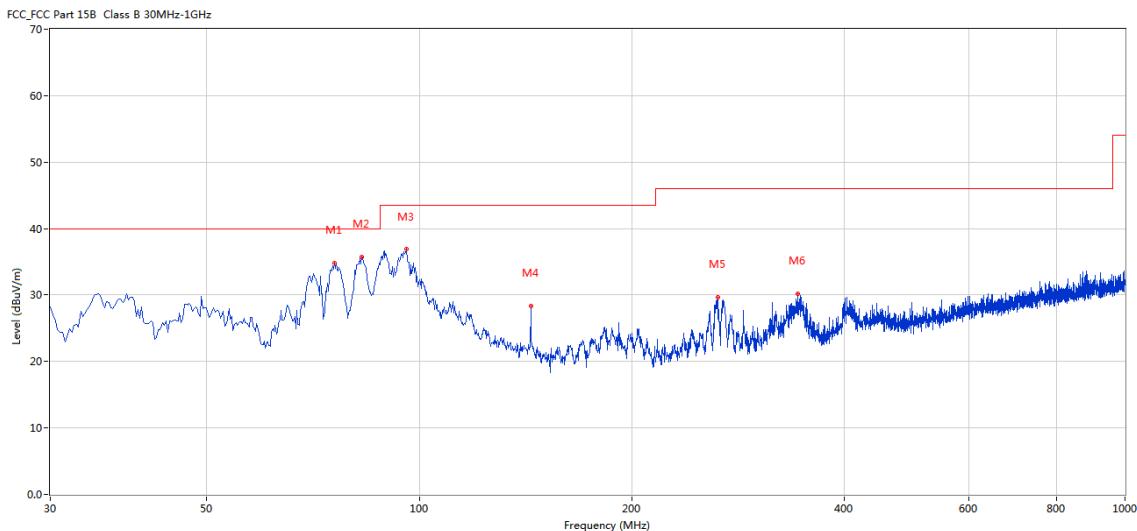
## D. General Radiated Emission Data

### Radiated Emission In Vertical (30MHz---1000MHz)

EUT set Condition: Keep Transmitting  
Results: Pass

Test Time: 2025-03-24\_08.59.43

EUT Name: Collapsible 3-in-1 Wireless Charger Test Standard: FCC  
Manufacturer: Ningbo Allstar O&E Technology Work Addition: Keep Transmitting  
Co.,Ltd  
Model: #25254/AST-WR254 Load: WIRELESS OUTPUT PHONE  
15W  
Temp.(°C): 25 Remark:  
Hum.: 65% Test Voltage: 120V~, 60Hz  
Test Engineer: BETTY Temp.(°C): 25



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	75.821	34.75	-17.51	40.0	5.25	Peak	114.00	100	Vertical	Pass
2	82.852	35.72	-17.01	40.0	4.28	Peak	35.00	100	Vertical	Pass
3	95.944	36.85	-14.16	43.5	6.65	Peak	33.00	100	Vertical	Pass
4	143.947	28.31	-17.10	43.5	15.19	Peak	55.00	100	Vertical	Pass
5	264.924	29.62	-11.85	46.0	16.38	Peak	94.00	100	Vertical	Pass
6	344.201	30.16	-9.56	46.0	15.84	Peak	360.00	100	Vertical	Pass

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## E. General Radiated Emission Data

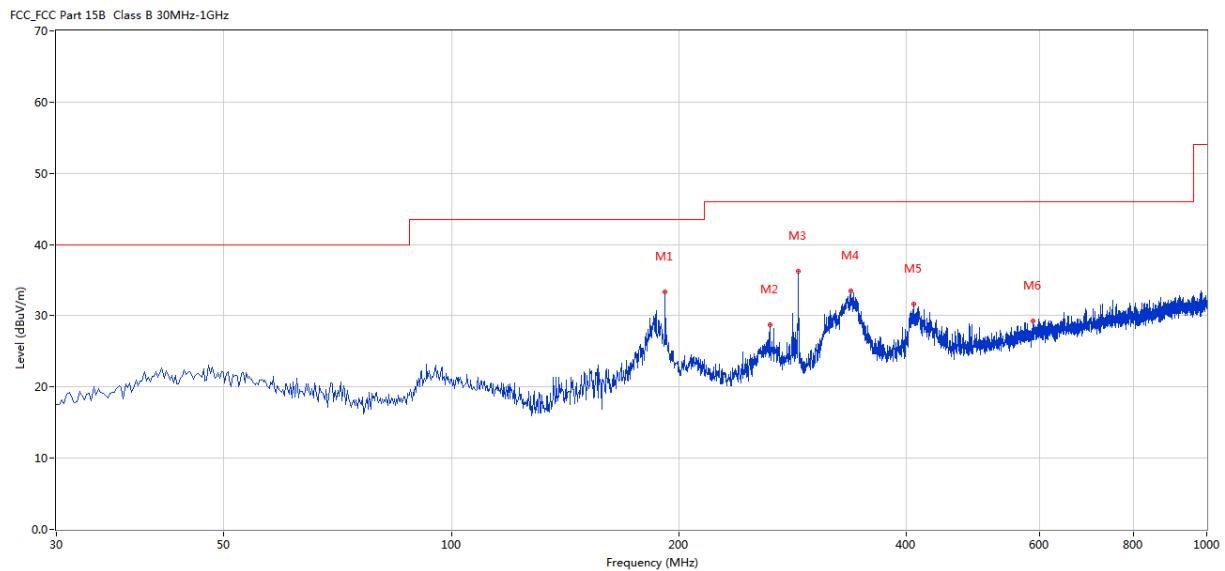
### Radiated Emission In Horizontal (30MHz---1000MHz)

EUT set Condition: Keep Transmitting

**Results:** Pass

Test Time: 2025-03-24\_09.00.41

EUT Name:	Collapsible 3-in-1 Wireless Charger	Test Standard:	FCC
Manufacturer:	Ningbo Allstar O&E Technology Co.,Ltd	Work Addition:	Keep Transmitting
Model:	#25254/AST-WR254	Load:	WIRELESS OUTPUT IPOD 3W
Temp.(°C):	25	Remark:	
Hum.:	65%	Test Voltage:	120V~, 60Hz
Test Engineer:	BETTY	Temp.(oC):	25



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	191.950	33.38	-14.07	43.5	10.12	Peak	360.00	100	Horizontal	Pass
2	263.954	28.76	-11.79	46.0	17.24	Peak	7.00	100	Horizontal	Pass
3	287.956	36.23	-11.27	46.0	9.77	Peak	166.00	100	Horizontal	Pass
4	337.898	33.44	-9.79	46.0	12.56	Peak	360.00	100	Horizontal	Pass
5	409.418	31.62	-8.44	46.0	14.38	Peak	282.00	100	Horizontal	Pass
6	588.095	29.24	-5.48	46.0	16.76	Peak	86.00	100	Horizontal	Pass

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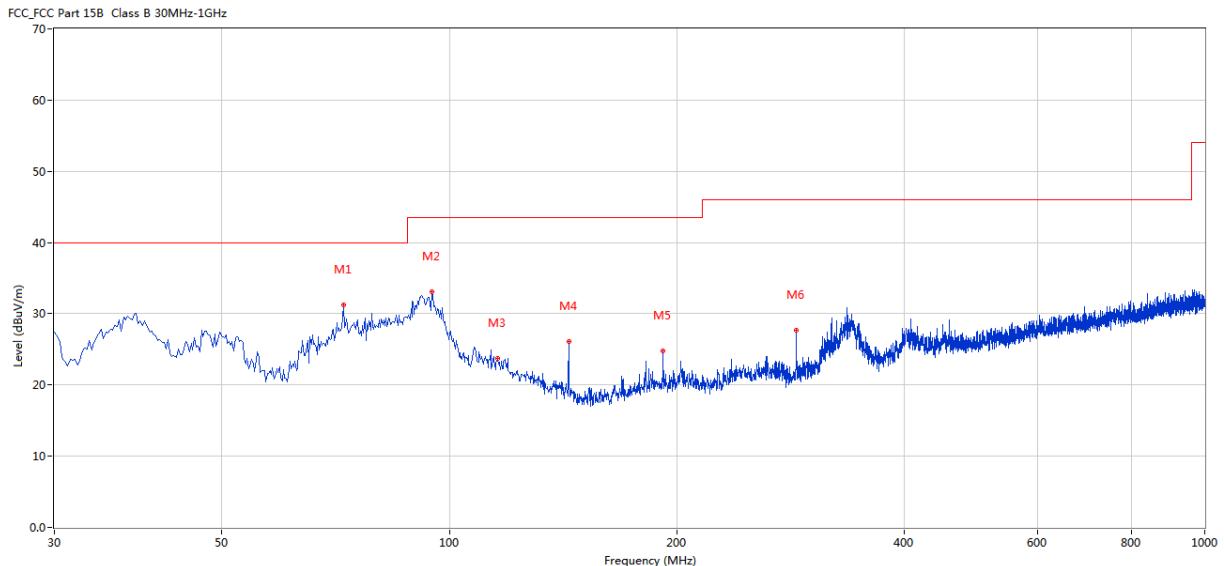
## F. General Radiated Emission Data

### Radiated Emission In Vertical (30MHz---1000MHz)

EUT set Condition: Keep Transmitting  
Results: Pass

Test Time: 2025-03-24\_09.01.09

EUT Name:	Collapsible 3-in-1 Wireless Charger	Test Standard:	FCC
Manufacturer:	Ningbo Allstar O&E Technology Co.,Ltd	Work Addition:	Keep Transmitting
Model:	#25254/AST-WR254	Load:	WIRELESS OUTPUT IPOD 3W
Temp.(°C):	25	Remark:	
Hum.:	65%	Test Voltage:	120V~, 60Hz
Test Engineer:	BETTY	Temp.(oC):	25



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	72.427	31.26	-16.69	40.0	8.74	Peak	227.00	100	Vertical	Pass
2	94.731	33.10	-14.32	43.5	10.40	Peak	118.00	100	Vertical	Pass
3	115.824	23.79	-14.57	43.5	19.71	Peak	1.00	100	Vertical	Pass
4	143.947	26.11	-17.10	43.5	17.39	Peak	28.00	100	Vertical	Pass
5	191.950	24.76	-14.07	43.5	18.74	Peak	111.00	100	Vertical	Pass
6	287.956	27.71	-11.27	46.0	18.29	Peak	224.00	100	Vertical	Pass

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## G. General Radiated Emission Data

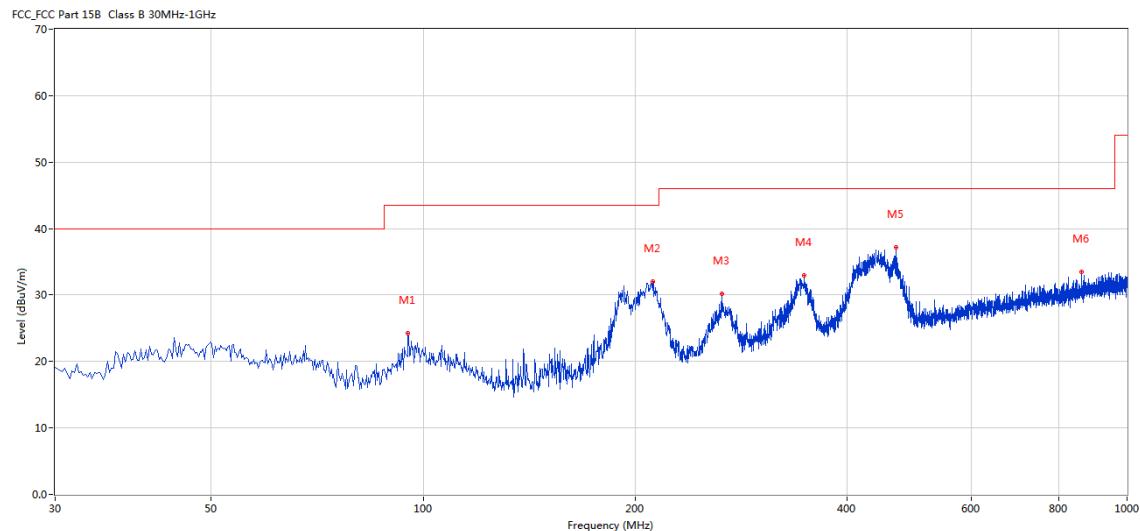
### Radiated Emission In Horizontal (30MHz---1000MHz)

EUT set Condition: Keep Transmitting

**Results:** Pass

Test Time: 2025-03-24\_09.02.41

EUT Name:	Collapsible 3-in-1 Wireless Charger	Test Standard:	FCC
Manufacturer:	Ningbo Allstar O&E Technology Co.,Ltd	Work Addition:	Keep Transmitting
Model:	#25254/AST-WR254	Load:	WIRELESS OUTPUT IWatch 2W
Temp.(°C):	25	Remark:	
Hum.:	5%	Test Voltage:	120V~, 60Hz
Test Engineer:	BETTY	Temp.(oC):	25



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	95.216	24.21	-14.25	40.0	15.79	Peak	155.00	100	Horizontal	Pass
2	212.072	32.04	-13.68	40.0	7.96	Peak	360.00	100	Horizontal	Pass
3	265.894	30.23	-11.82	47.0	16.77	Peak	359.00	100	Horizontal	Pass
4	347.838	33.00	-9.43	47.0	14.00	Peak	152.00	100	Horizontal	Pass
5	470.027	37.17	-7.58	47.0	9.83	Peak	279.00	100	Horizontal	Pass
6	862.052	33.50	-2.29	47.0	13.50	Peak	351.00	100	Horizontal	Pass

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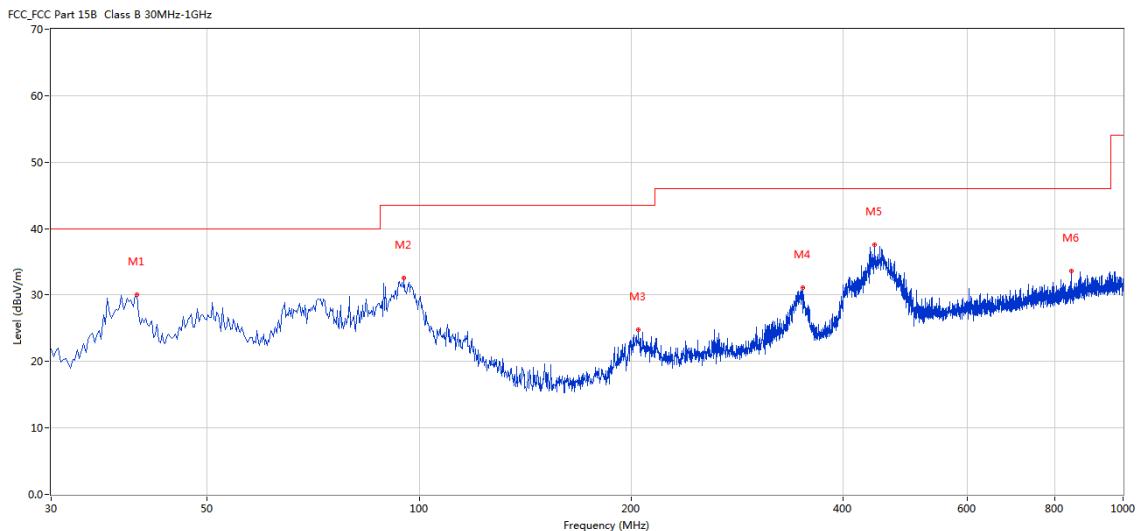
## H. General Radiated Emission Data

### Radiated Emission In Vertical (30MHz---1000MHz)

EUT set Condition: Keep Transmitting  
**Results:** Pass

Test Time: 2025-03-24\_09.03.00

EUT Name: Collapsible 3-in-1 Wireless Charger Test Standard: FCC  
Manufacturer: Ningbo Allstar O&E Technology Work Addition: Keep Transmitting  
Co.,Ltd  
Model: #25254/AST-WR254 Load: WIRELESS OUTPUT IWatch  
2W  
Temp.(°C): 25 Remark:  
Hum.: 65% Test Voltage: 120V~, 60Hz  
Test Engineer: BETTY Temp.(°C): 25



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	39.698	30.08	-12.47	40.0	9.92	Peak	107.00	100	Vertical	Pass
2	95.216	32.58	-14.25	40.0	7.42	Peak	107.00	100	Vertical	Pass
3	204.799	24.74	-13.57	40.0	15.26	Peak	68.00	100	Vertical	Pass
4	350.262	31.15	-9.30	47.0	15.85	Peak	1.00	100	Vertical	Pass
5	443.359	37.55	-7.93	47.0	9.45	Peak	191.00	100	Vertical	Pass
6	845.324	33.59	-2.69	47.0	13.41	Peak	207.00	100	Vertical	Pass

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## 7.0 20dB Bandwidth Testing

### 7.1 Test Procedure

With the EUT's antenna attached, the EUT's 20dB Bandwidth was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.

### 7.3 Test Data

#### Test Mode: Wireless Output (Watch: 2W)

Frequency (MHz)	20dB Bandwidth Emission (kHz)	Limit (kHz)	Result
0.175	3.382	--	Pass

Refer to attached plots:

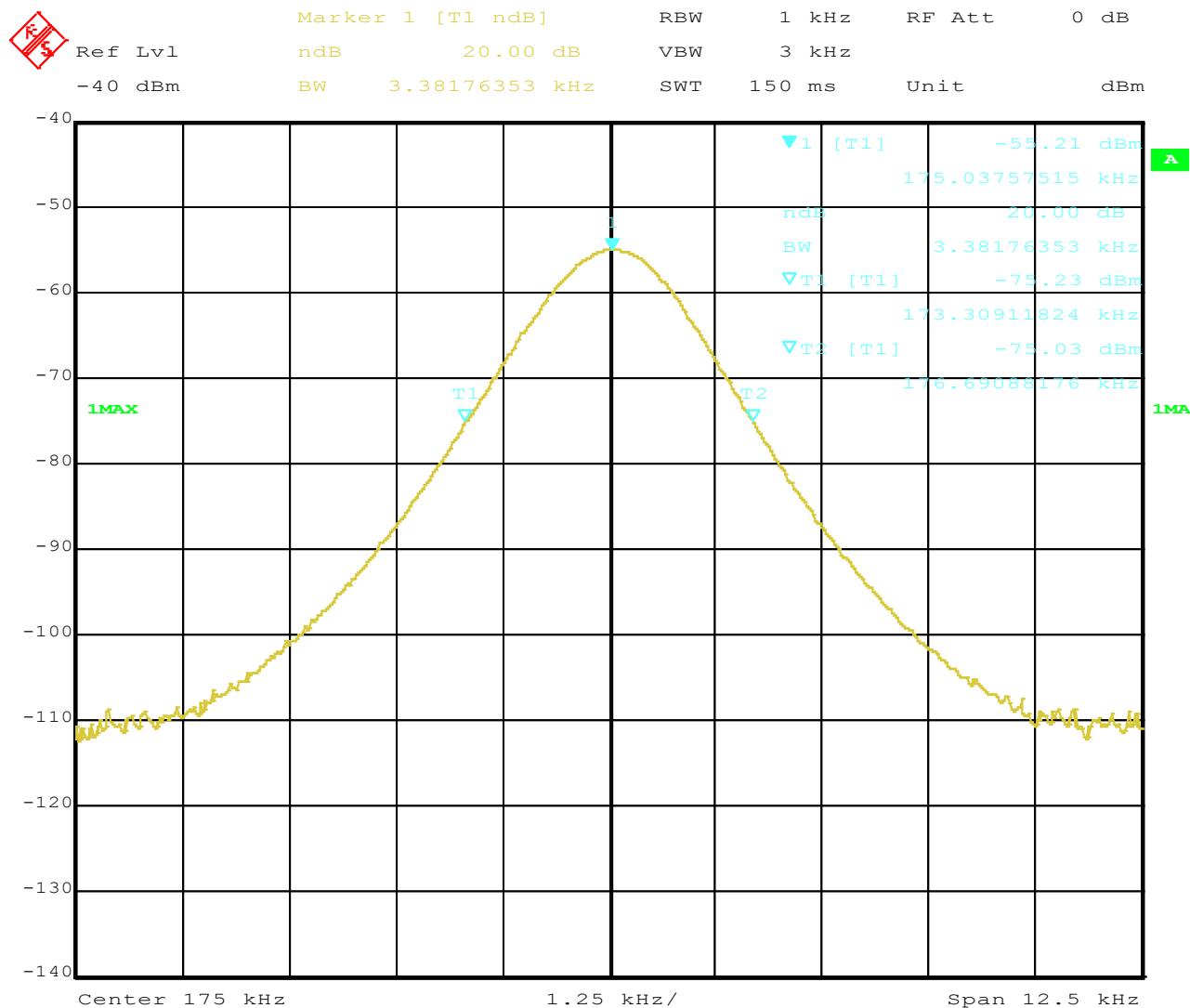
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20dB Bandwidth



Date: 13.AUG.2024 13:46:59

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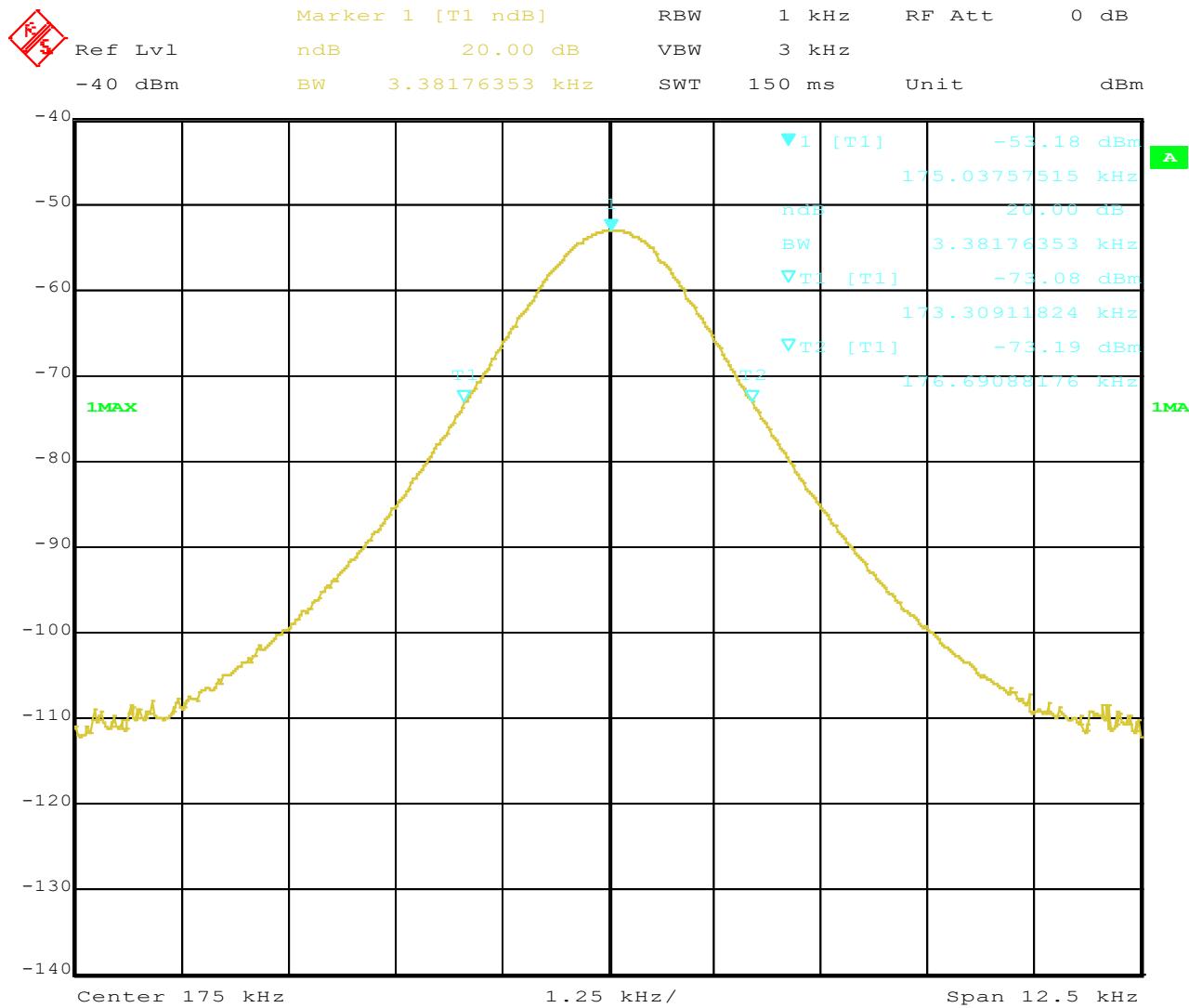


**Test Mode: Wireless Output (AirPod: 3W)**

Frequency (MHz)	20dB Bandwidth Emission (kHz)	Limit (kHz)	Result
0.175	3.382	--	Pass

Refer to attached plots:

20dB Bandwidth



Date: 13.AUG.2024 13:48:28

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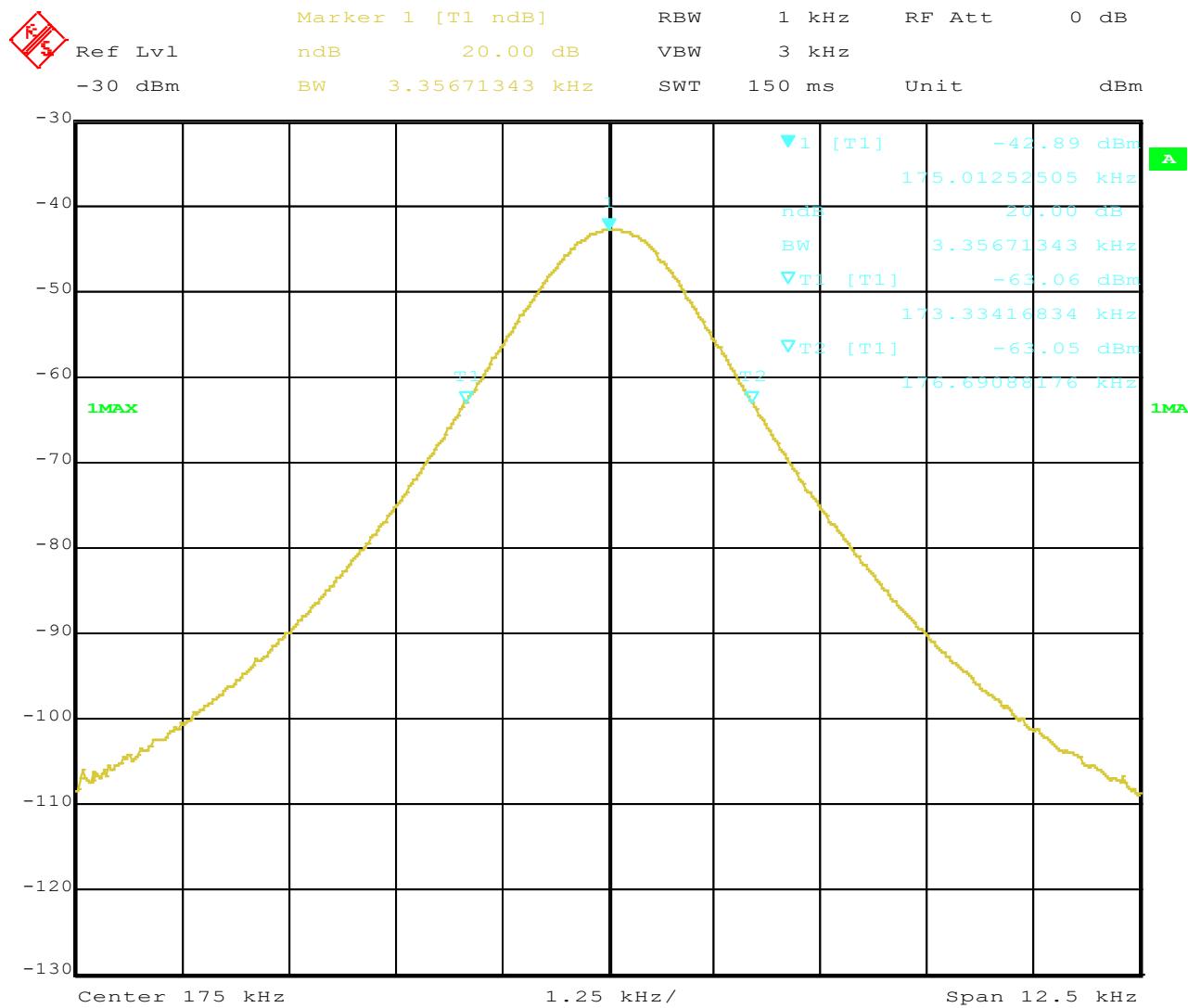


**Test Mode: Wireless Output (Phone: 15W)**

Frequency (MHz)	20dB Bandwidth Emission (kHz)	Limit (kHz)	Result
0.175	3.357	--	Pass

Refer to attached plots:

**20dB Bandwidth**



Date: 13.AUG.2024 13:49:46

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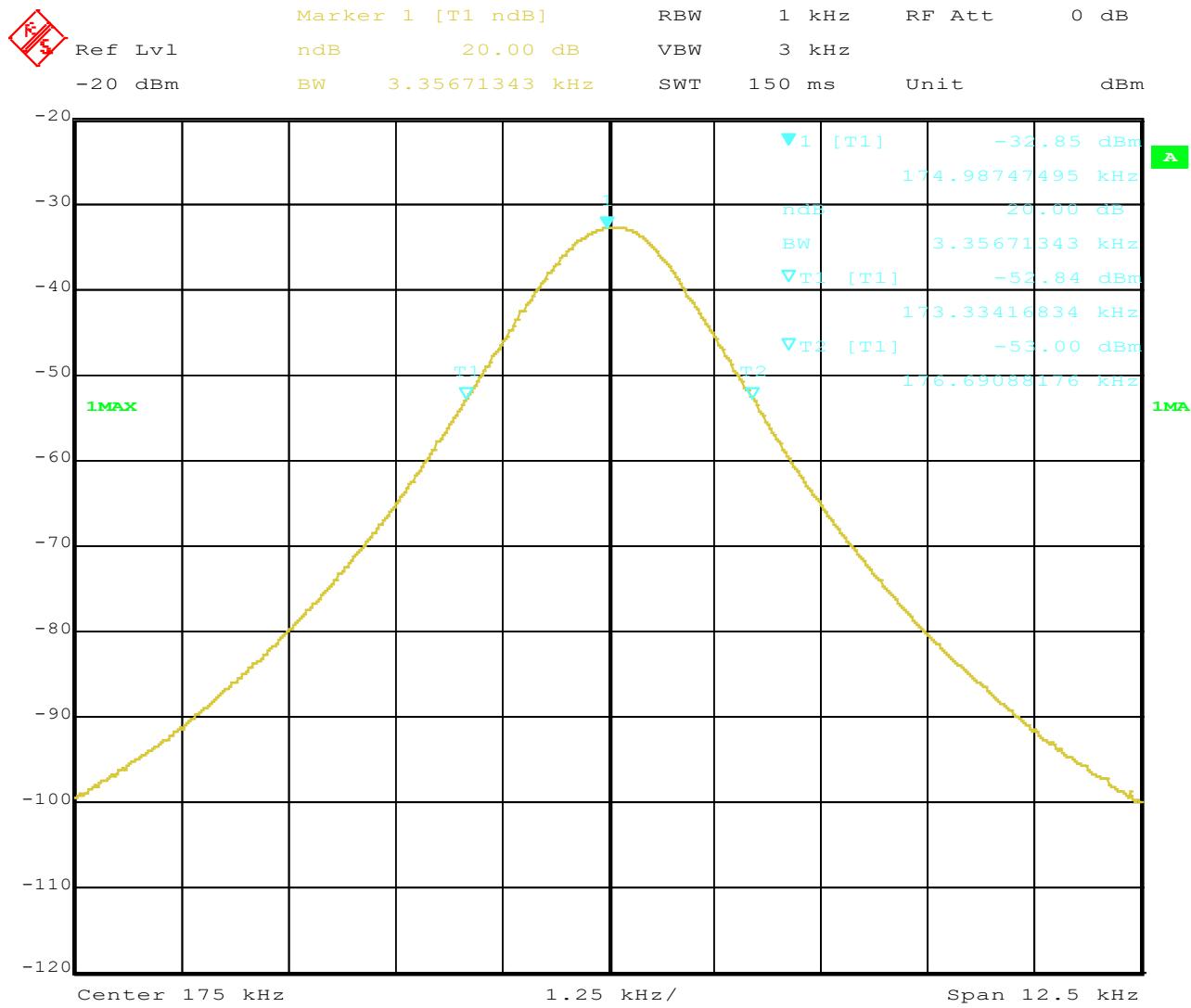


**Test Mode: Wireless Output (Phone:15W+AirPod: 3W+Watch: 2W)**

Frequency (MHz)	20dB Bandwidth Emission (kHz)	Limit (kHz)	Result
0.175	3.357	--	Pass

Refer to attached plots:

20dB Bandwidth



Date: 13.AUG.2024 13:51:14

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## 8.0 Antenna Requirement

### 8.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

### 8.2 Antenna Connected constructions

The antenna is Inductive Loop Antenna. The antenna gain is 0dBi. So it meets the requirement of 15.203

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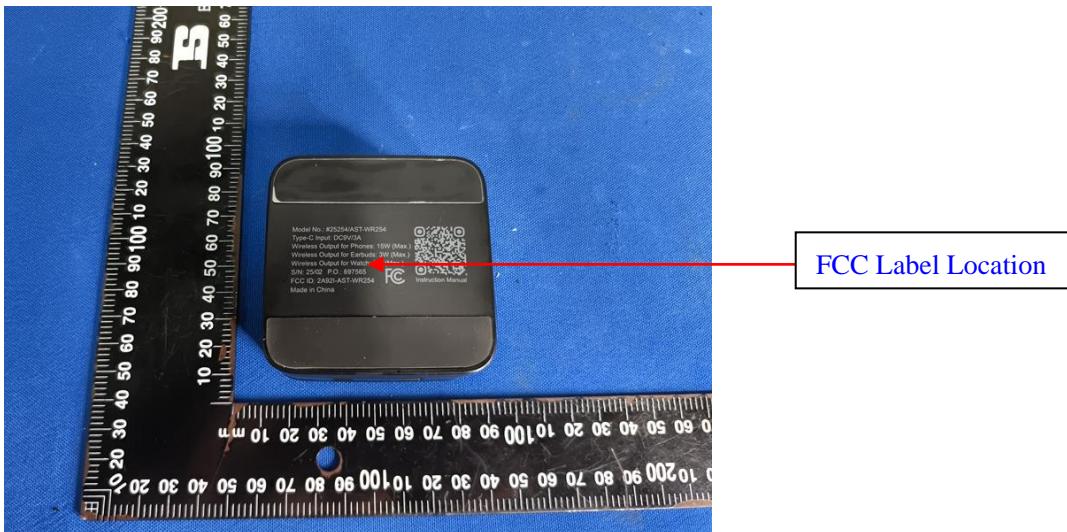


## 9.0 FCC ID Label

**FCC ID: 2A92I-AST-WR254**

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

### Mark Location:



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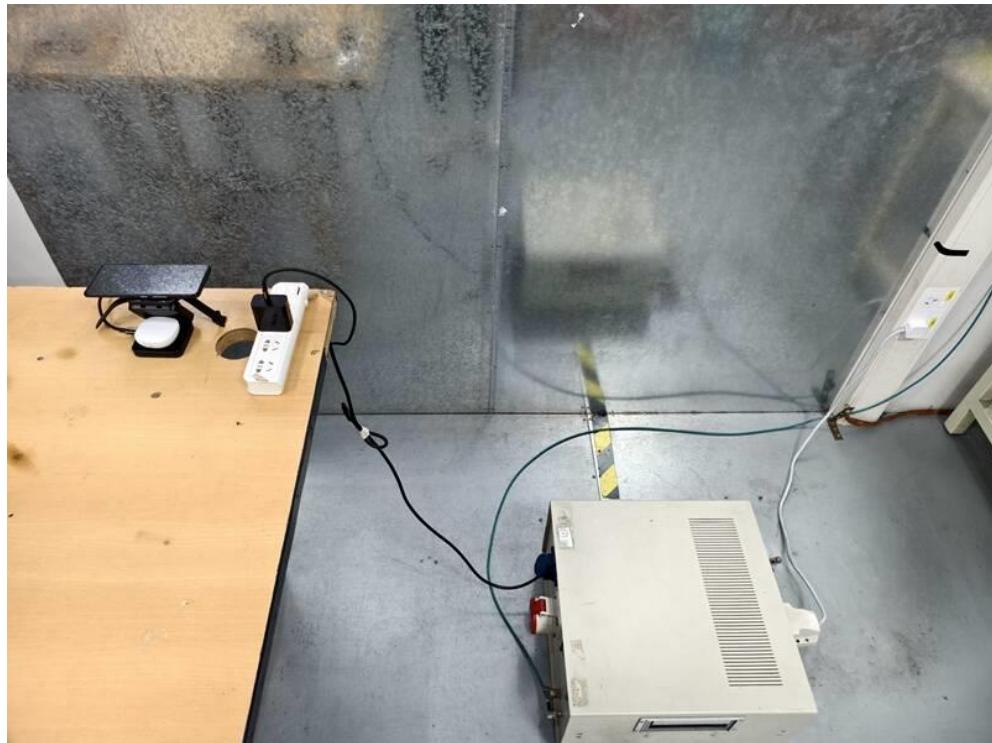
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## 10.0 Photo of testing

### 10.1 Conducted test View



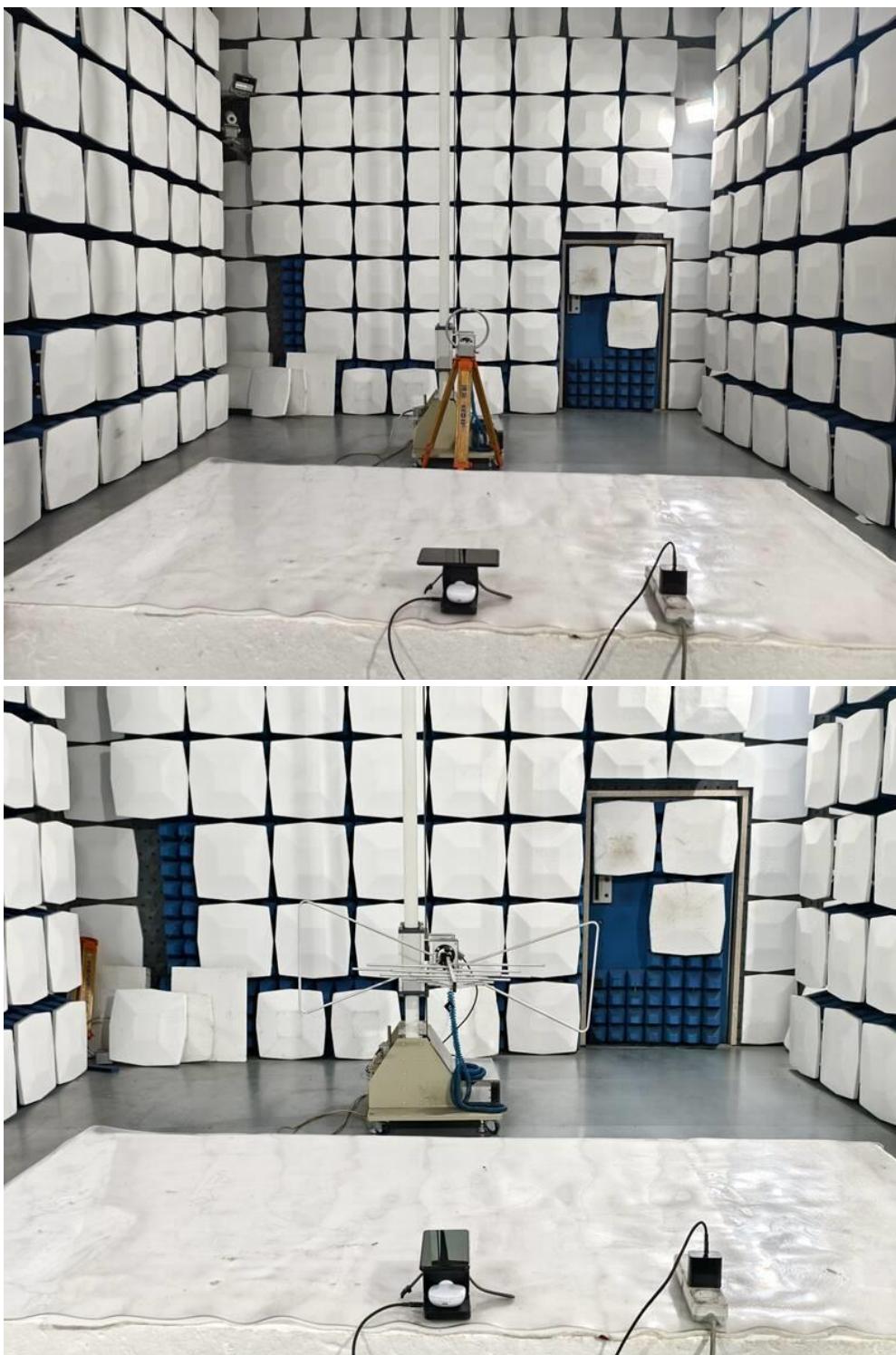
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10.2 Radiated emission test view



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Photographs – EUT

Outside View



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Outside View



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Inside View



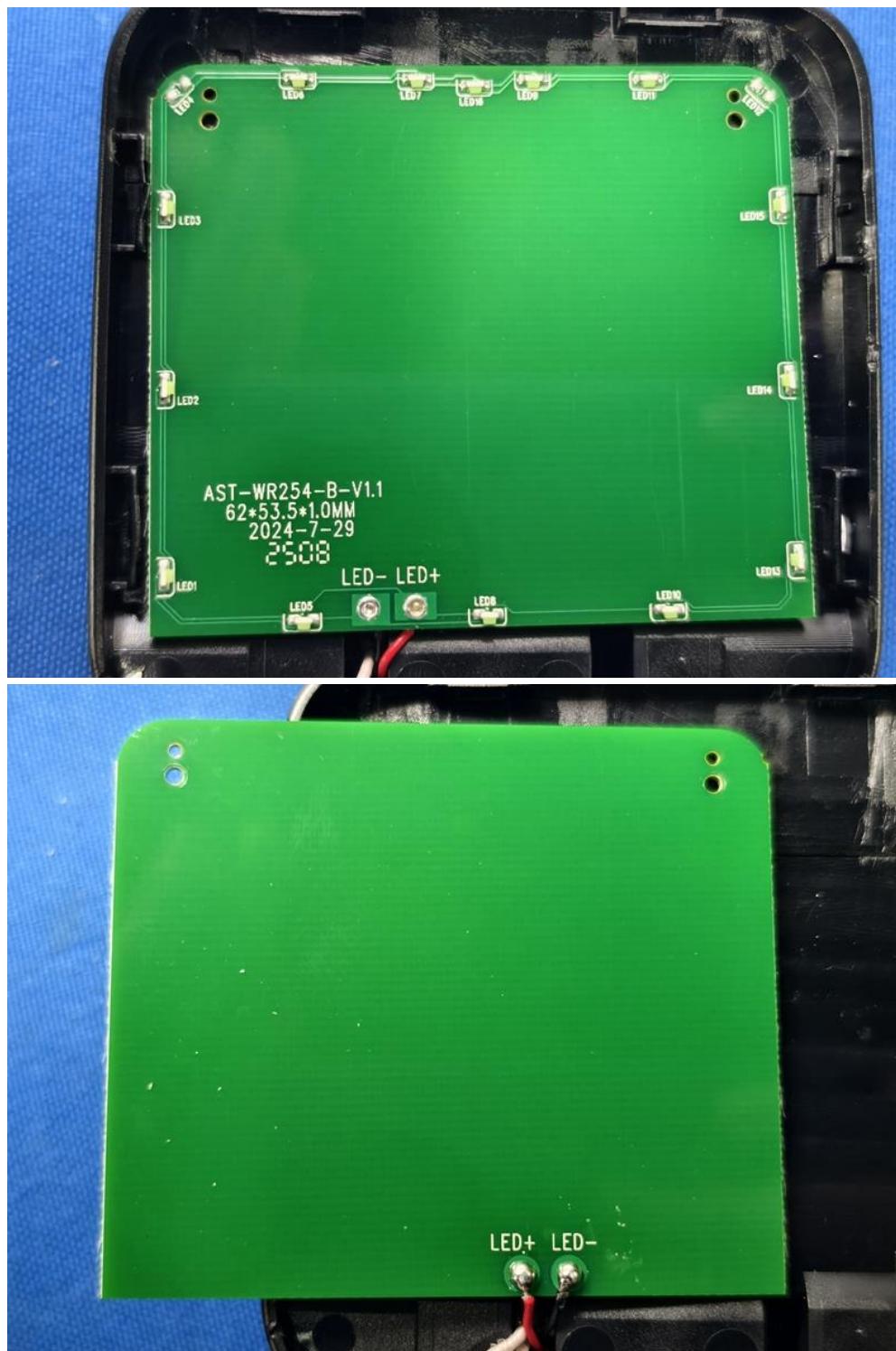
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Inside View



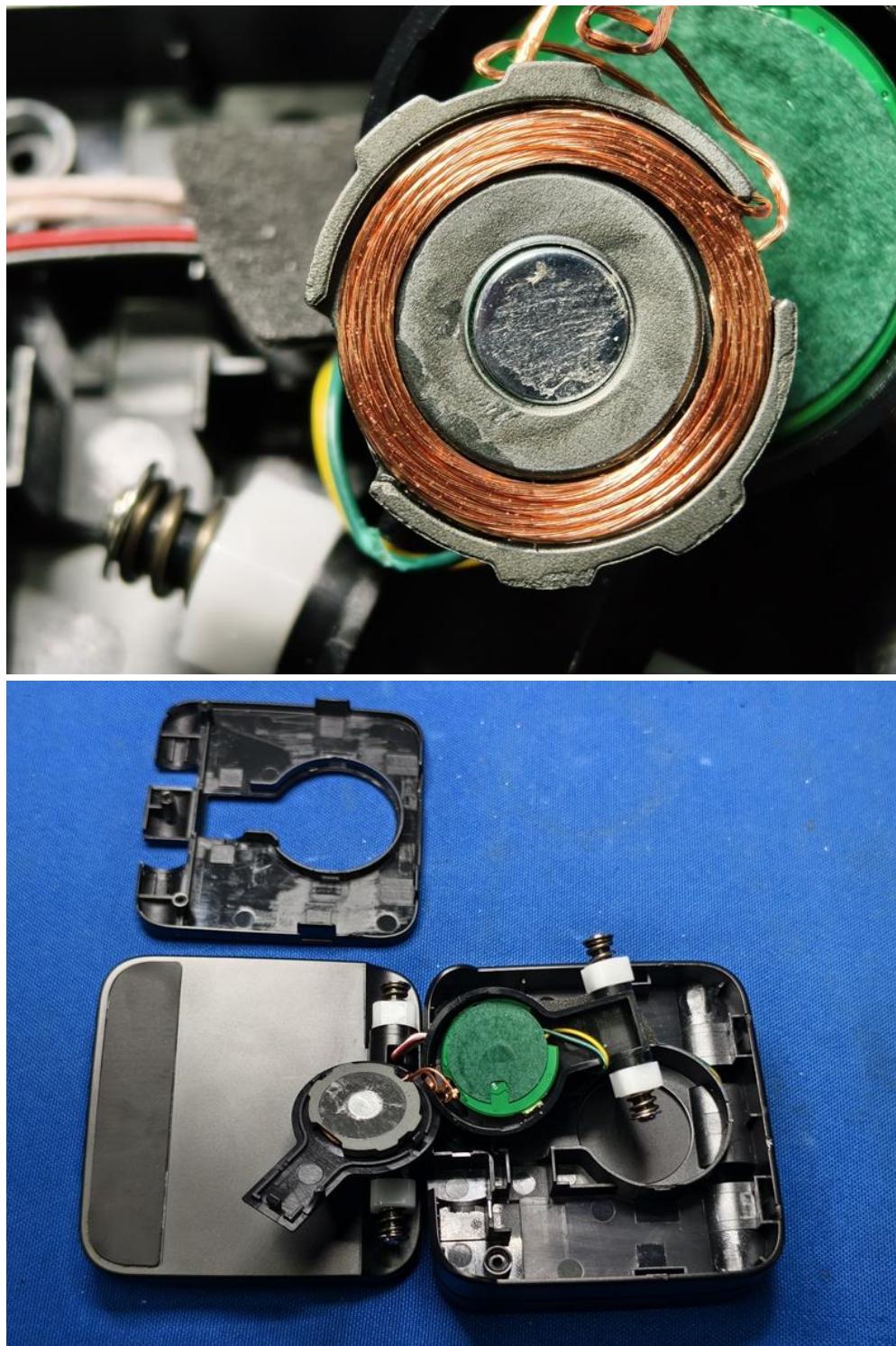
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Inside View



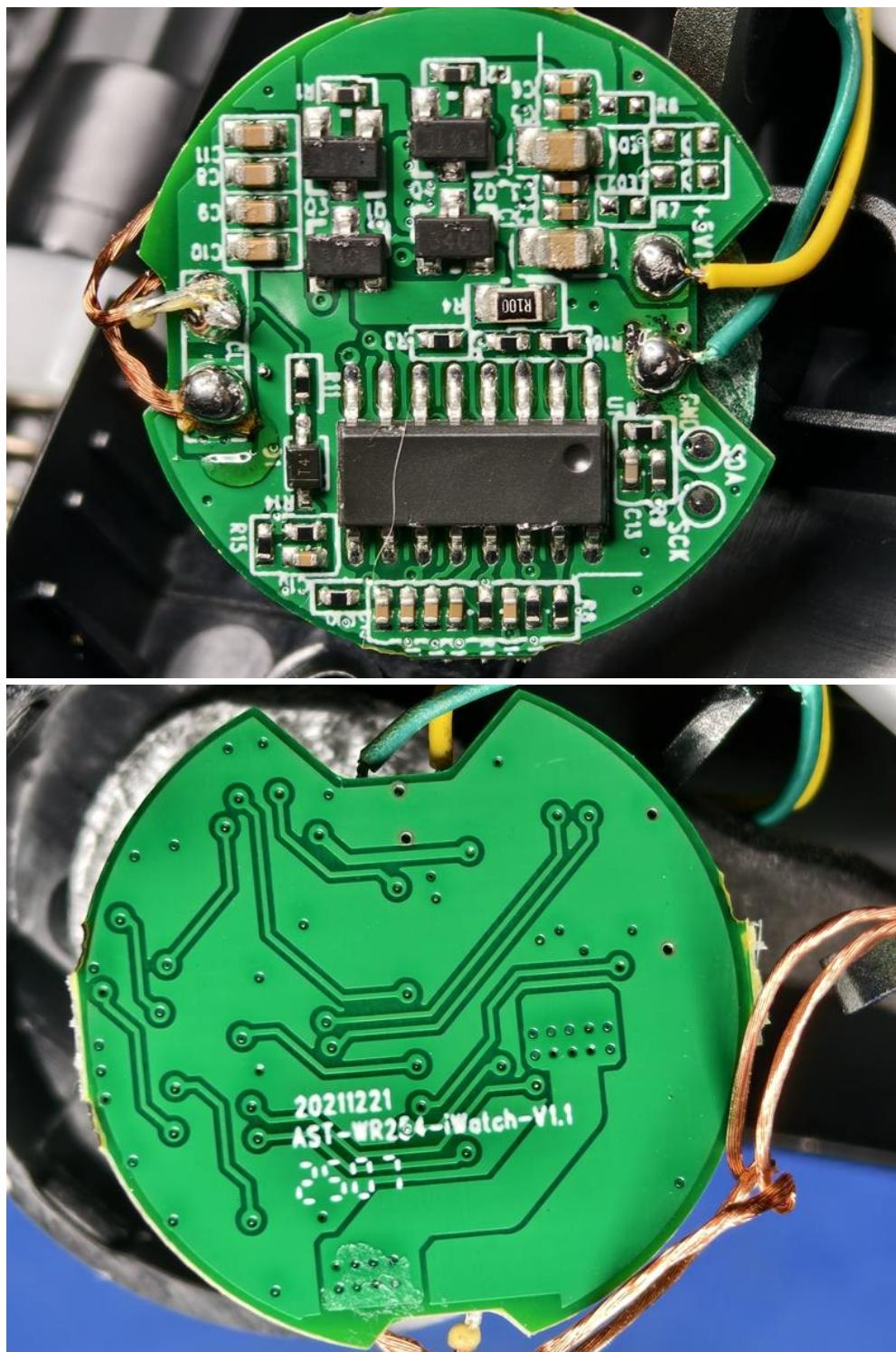
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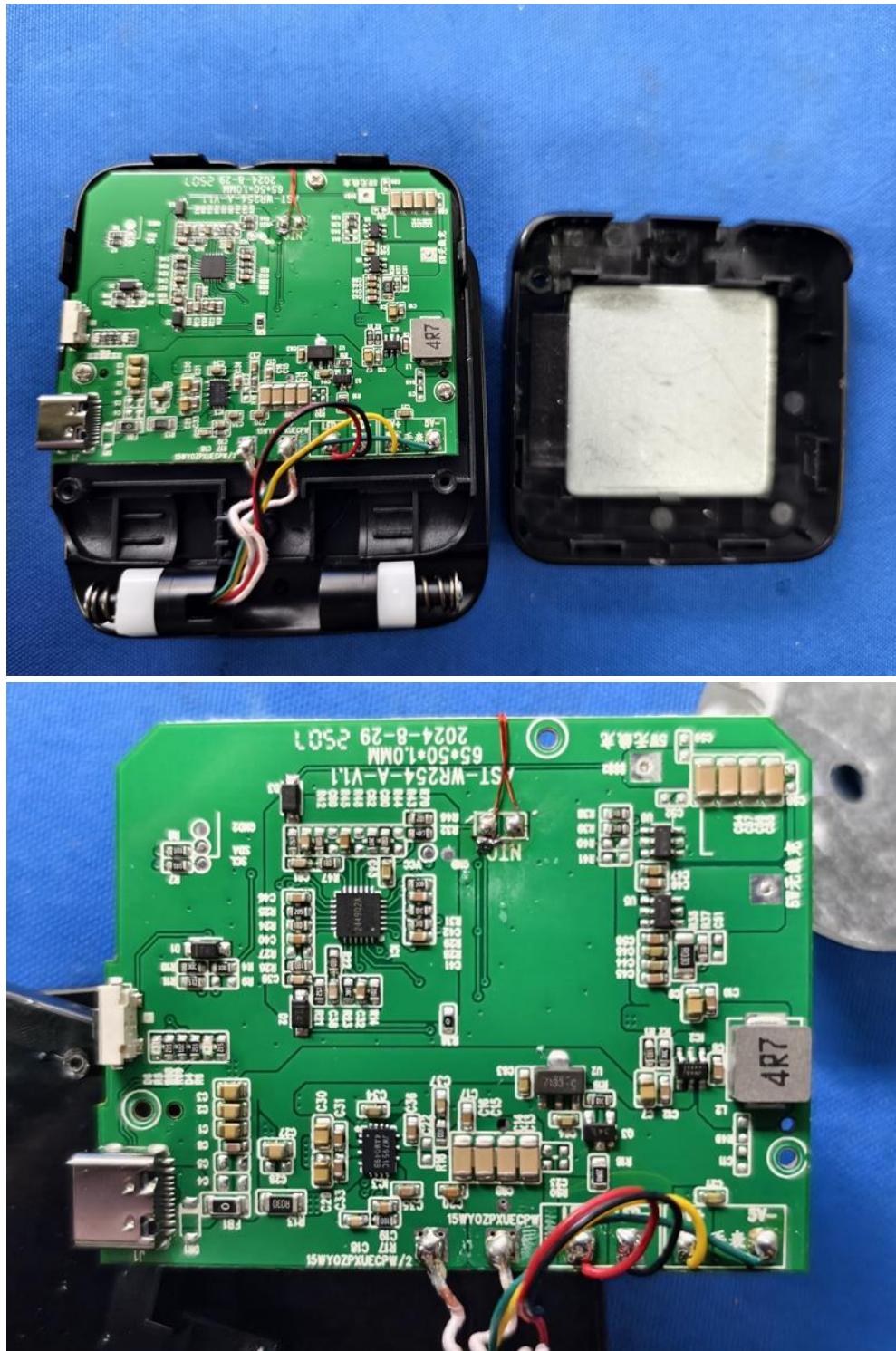
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Inside View



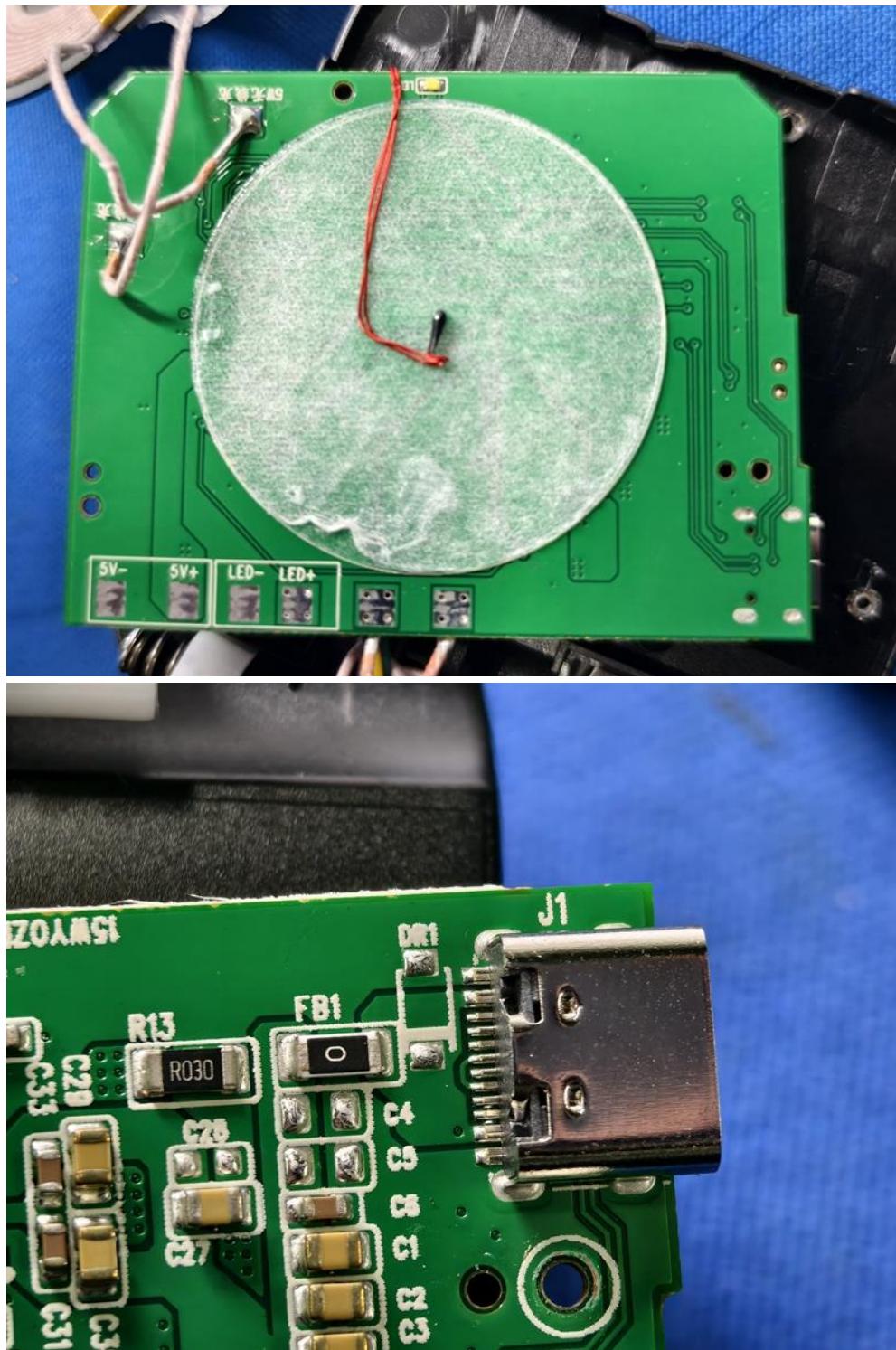
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Inside View



-End of the report-

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