

# FCC TEST REPORT

Client Name : Shenzhen Three Bees E-Commerce Co., Ltd.  
Address : Building A, Jianjin Industrial Park, Donghuan 2nd Road,  
Longhua Street, Shenzhen, China  
Product Name : 3 in 1 Wireless Charger Station  
Date : Mar. 04, 2022



**Shenzhen Anbotek Compliance Laboratory Limited**

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# TEST REPORT

Applicant : Shenzhen Three Bees E-Commerce Co., Ltd.  
Manufacturer : Shenzhen Three Bees E-Commerce Co., Ltd.  
Product Name : 3 in 1 Wireless Charger Station  
Model No. : HM003, HM001, HM002, HM005  
Trade Mark : NANAMI  
Rating(s) : Input: 5V3A, 9V2A  
Phone output: 15W Max  
Earphone output: 2.5W  
**Test Standard(s) : FCC Part15 Subpart C, Paragraph 15.209**  
**Test Method(s) : ANSI C63.10: 2020**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

Feb. 18, 2022

Date of Test

Feb. 18~ Mar. 02, 2022

Prepared By



(TuTu Hong)

Approved & Authorized Signer



(Kingkong Jin)

# 1. General Information

## 1.1. Client Information

Applicant	:	Shenzhen Three Bees E-Commerce Co., Ltd.
Address	:	Building A, Jianjin Industrial Park, Donghuan 2nd Road, Longhua Street, Shenzhen, China
Manufacturer	:	Shenzhen Three Bees E-Commerce Co., Ltd.
Address	:	Building A, Jianjin Industrial Park, Donghuan 2nd Road, Longhua Street, Shenzhen, China
Factory	:	Shenzhen Three Bees E-Commerce Co., Ltd.
Address	:	Building A, Jianjin Industrial Park, Donghuan 2nd Road, Longhua Street, Shenzhen, China

## 1.2. Description of Device (EUT)

Product Name	:	3 in 1 Wireless Charger Station	
Model No.	:	HM003, HM001, HM002, HM005 (Note: All samples are the same except the model number, so we prepare "HM003" for test only.)	
Trade Mark	:	NANAMI	
Test Power Supply	:	AC 120V, 60Hz for adapter/AC 240V, 60Hz for adapter	
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)	
Product Description	:	Operation Frequency:	110.1~205KHz
	:	Modulation Type:	ASK FSK
	:	Antenna Type:	Inductive loop coil Antenna
	:	Antenna Gain(Peak):	0 dBi (Provided by customer)
	:	Adapter	Model: XY18U30-QC Input:100-240V~50/60Hz, 0.4A Output: DC 5V,3A/ 9V,2A/ 12V,1.5A
<b>Remark:</b> 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.			

### 1.3. Auxiliary Equipment Used During Test

Wireless charging load	:	Manufacturer: Shenzhen Ouju Technology Co., Ltd. M/N: CD2577 Power: 5W/7.5W/10W/15W Last Cal.: Oct. 26, 2020 Cal. Interval: 1 Year
Apple AirPods	:	M/N: AirPods Pro

### 1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Wireless Charging Mode(15W)
Mode 2	Wireless Charging Mode(Apple AirPods)
Mode 3	Wireless Charging Mode(17.5W)

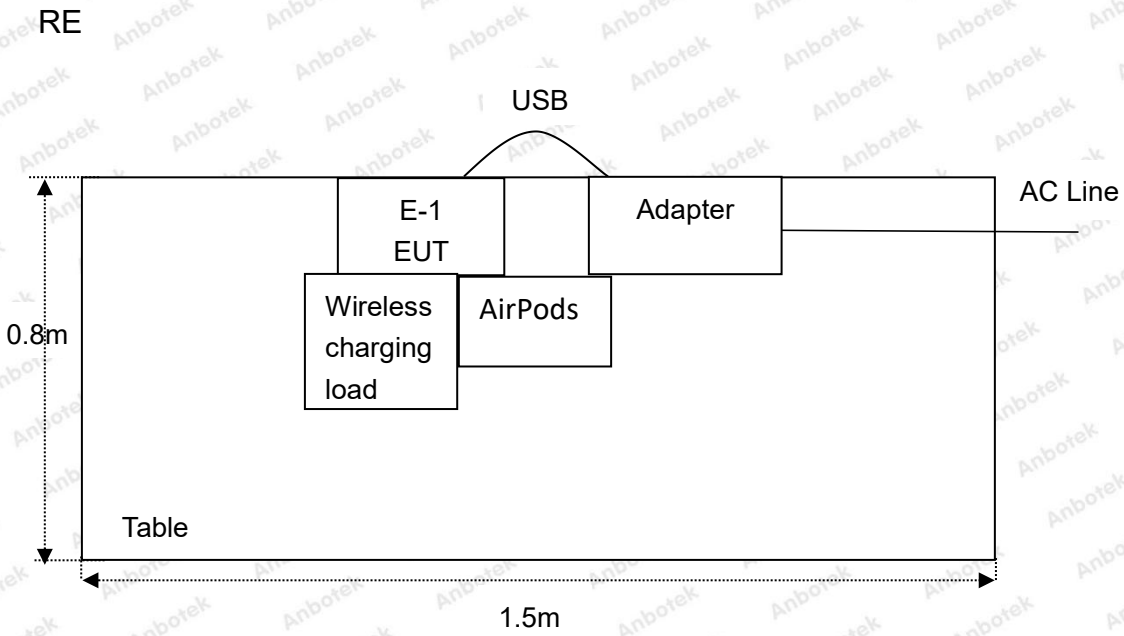
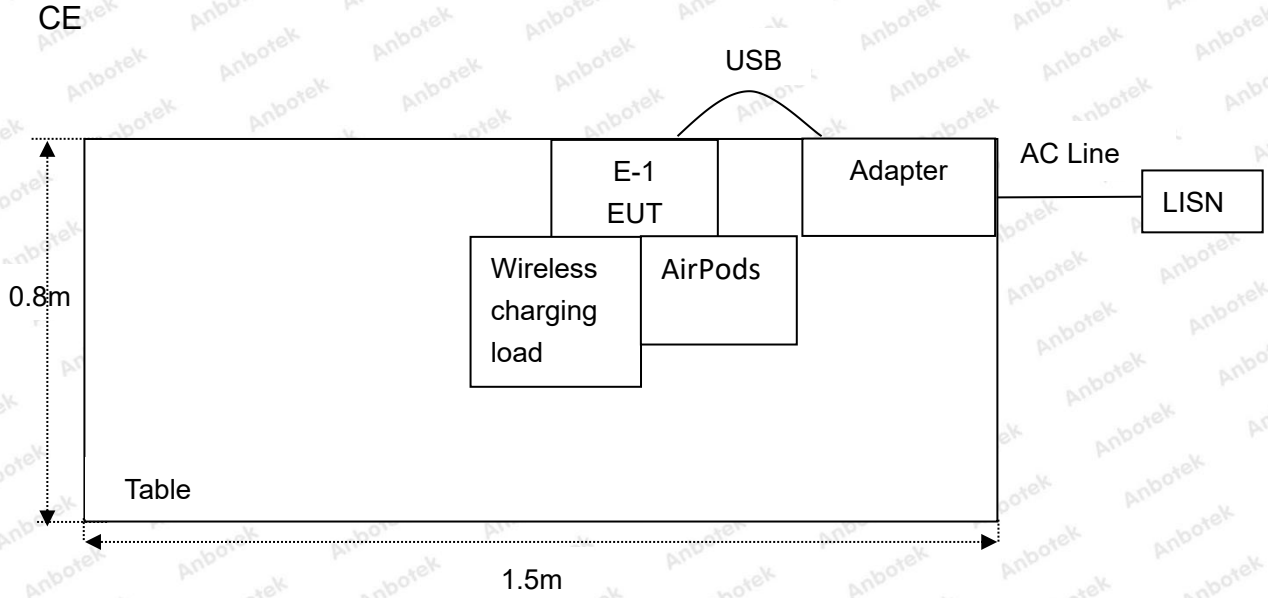
For Conducted Emission	
Final Test Mode	Description
Mode 1	Wireless Charging Mode
Mode 2	Wireless Charging Mode(Apple AirPods)
Mode 3	Wireless Charging Mode(17.5W)

For Radiated Emission	
Final Test Mode	Description
Mode 1	Wireless Charging Mode
Mode 2	Wireless Charging Mode(Apple AirPods)
Mode 3	Wireless Charging Mode(17.5W)

Note: (1)Test channel is 0.1285MHz.

(2) All the situation(full load, half load and empty load) has been tested,only the worst situation (full load 17.5W) was recorded in the report.

**1.5. Description Of Test Setup**



## 1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul 05, 2021	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 22, 2021	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 22, 2021	1 Year
4.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 22, 2021	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 22, 2021	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Oct. 22, 2021	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Oct. 22, 2021	2 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Oct. 22, 2021	2 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 22, 2021	2 Year
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Oct. 22, 2021	2 Year
11.	Pre-amplifier	SONOMA	310N	186860	Oct. 22, 2021	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	RF Test Control System	YIHENG	YH3000	2017430	Oct. 22, 2021	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Oct. 22, 2021	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Oct. 22, 2021	1 Year
16.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 22, 2021	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 22, 2021	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 22, 2021	1 Year
19.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 22, 2021	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Oct. 22, 2021	1 Year

### 1.7. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
	:	Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB

### 1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, 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. 184111.

#### ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

#### Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



## 2. Summary of Test Results

Standard Section	Test Item	Result
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS
Part 15.203	Antenna Requirement	PASS

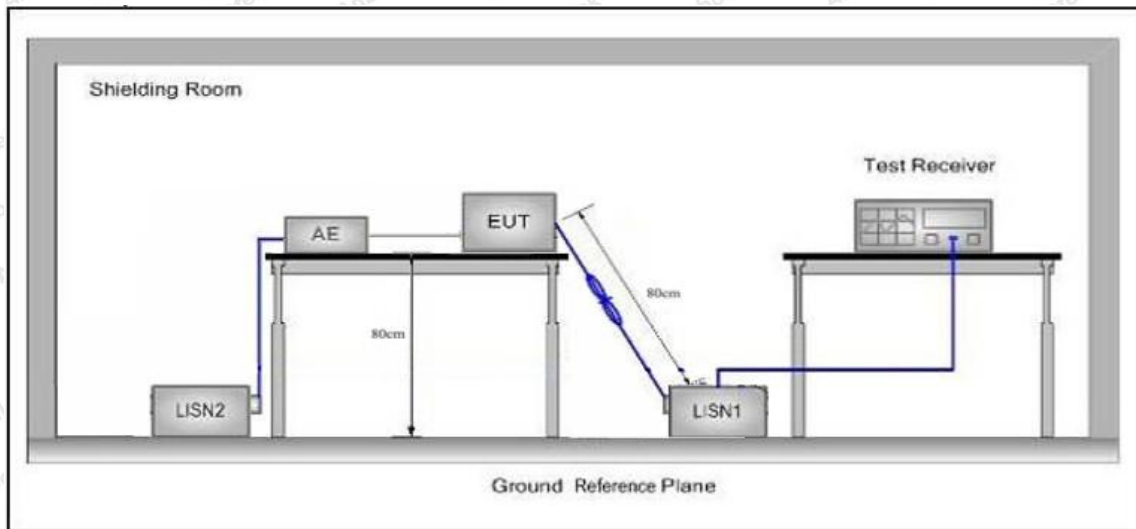
## 3. Conducted Emission Test

### 3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
5MHz~30MHz	60	50	

**Remark:** (1) \*Decreasing linearly with logarithm of the frequency.  
 (2) The lower limit shall apply at the transition frequency.

### 3.2. Test Setup



### 3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of 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 FCC ANSI C63.10-2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

### 3.4. Test Data

Please to see the following pages

#### Shenzhen Anbotek Compliance Laboratory Limited

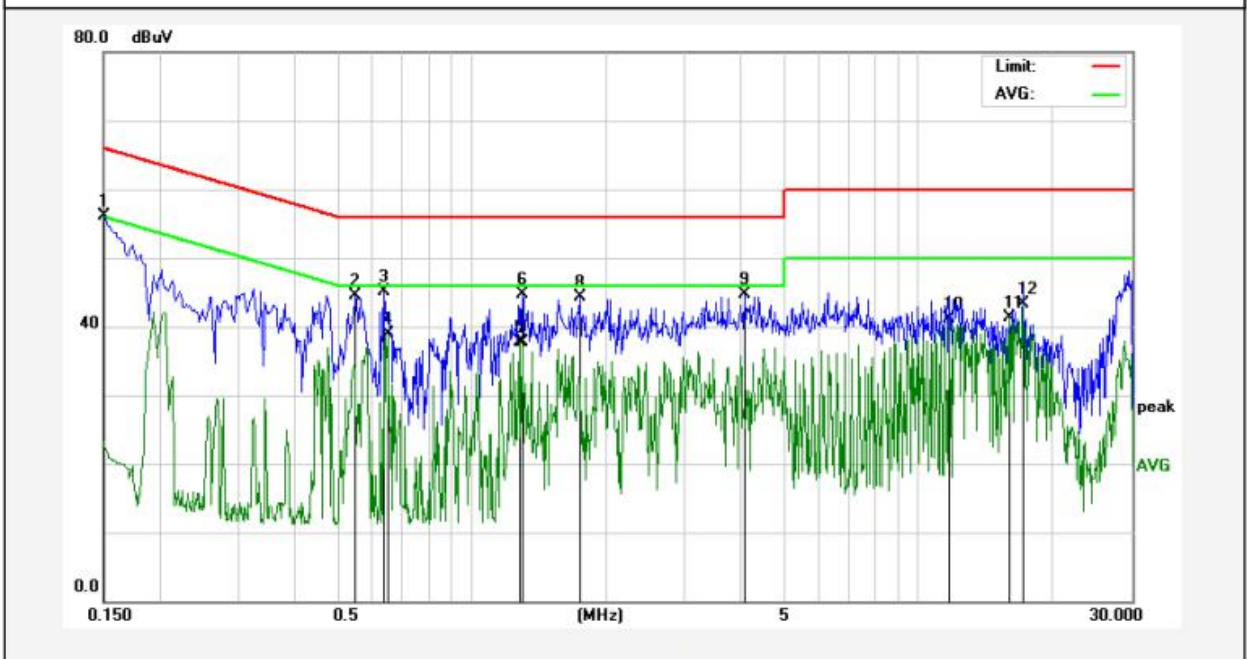
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

Code:AB-RF-05-a

Hotline  
 400-003-0500  
 www.anbotek.com

**Conducted Emission Test Data**

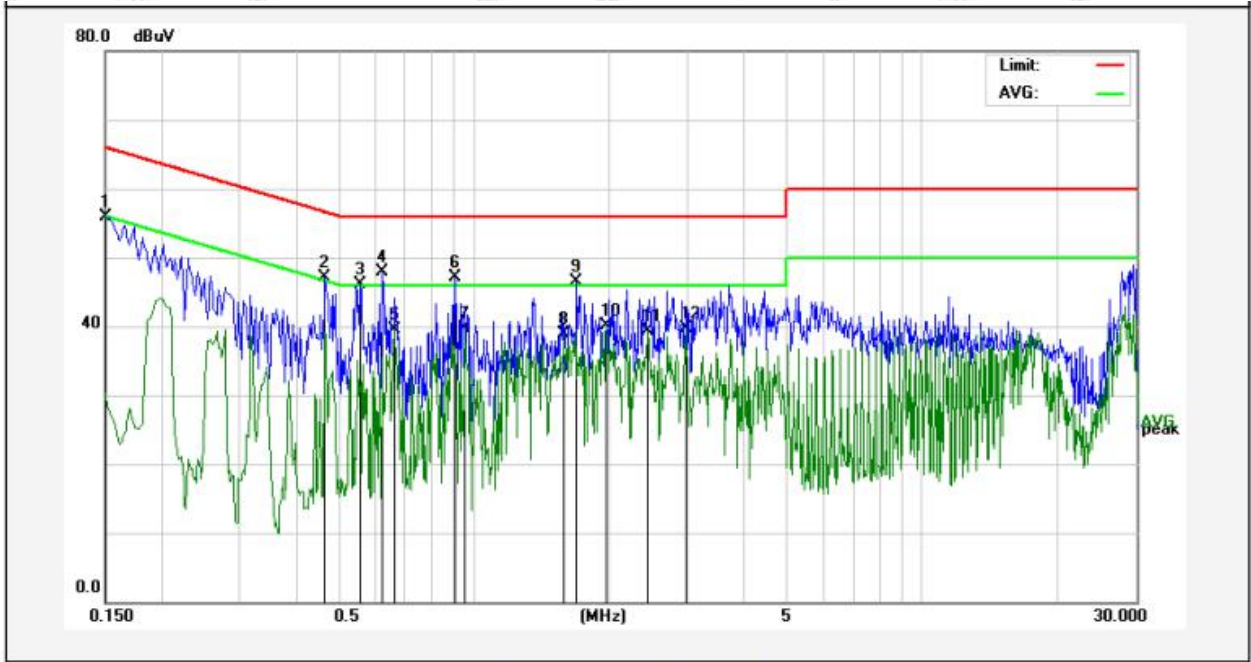
Test Site: 1# Shielded Room  
 Operating Condition: Mode 3  
 Test Specification: AC 240V, 60Hz for adapter  
 Comment: Live Line  
 Tem.: 23.1°C Hum.: 49%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1499	55.92	0.11	56.03	66.00	-9.97	QP	
2	0.5500	44.42	0.15	44.57	56.00	-11.43	QP	
3	0.6340	45.03	0.15	45.18	56.00	-10.82	QP	
4	0.6500	38.76	0.15	38.91	46.00	-7.09	AVG	
5	1.2780	37.56	0.14	37.70	46.00	-8.30	AVG	
6	1.3020	44.54	0.14	44.68	56.00	-11.32	QP	
7	1.3020	37.52	0.14	37.66	46.00	-8.34	AVG	
8	1.7459	44.20	0.13	44.33	56.00	-11.67	QP	
9	4.0899	44.63	0.11	44.74	56.00	-11.26	QP	
10	11.7299	40.88	0.14	41.02	50.00	-8.98	AVG	
11	15.9379	41.17	0.18	41.35	50.00	-8.65	AVG	
12	17.1176	43.05	0.18	43.23	50.00	-6.77	AVG	

**Conducted Emission Test Data**

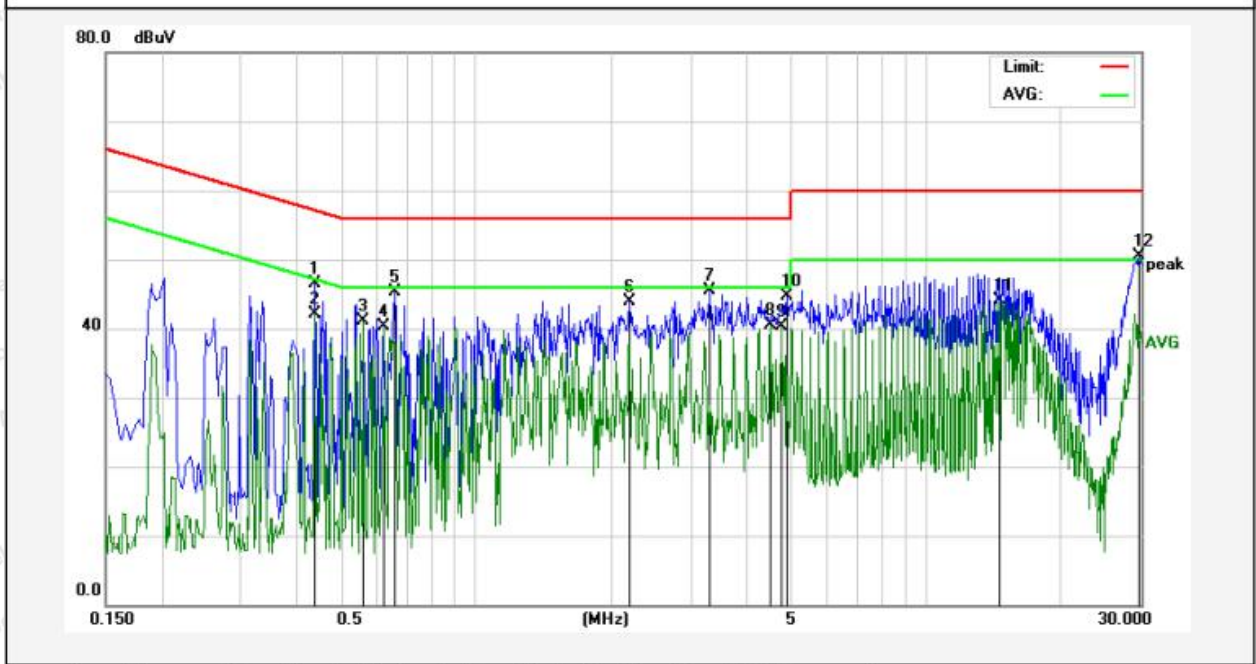
Test Site: 1# Shielded Room  
 Operating Condition: Mode 3  
 Test Specification: AC 240V, 60Hz for adapter  
 Comment: Neutral Line  
 Tem.: 23.1°C Hum.: 49%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1499	55.87	0.11	55.98	66.00	-10.02	QP	
2	0.4660	47.00	0.14	47.14	56.58	-9.44	QP	
3	0.5580	46.00	0.15	46.15	56.00	-9.85	QP	
4	0.6260	47.66	0.15	47.81	56.00	-8.19	QP	
5	0.6620	39.27	0.15	39.42	46.00	-6.58	AVG	
6	0.9060	46.99	0.15	47.14	56.00	-8.86	QP	
7	0.9537	39.64	0.15	39.79	46.00	-6.21	AVG	
8	1.5859	38.70	0.13	38.83	46.00	-7.17	AVG	
9	1.6897	46.38	0.13	46.51	56.00	-9.49	QP	
10	1.9737	40.04	0.12	40.16	46.00	-5.84	AVG	
11	2.4420	39.19	0.12	39.31	46.00	-6.69	AVG	
12	2.9660	39.57	0.12	39.69	46.00	-6.31	AVG	

**Conducted Emission Test Data**

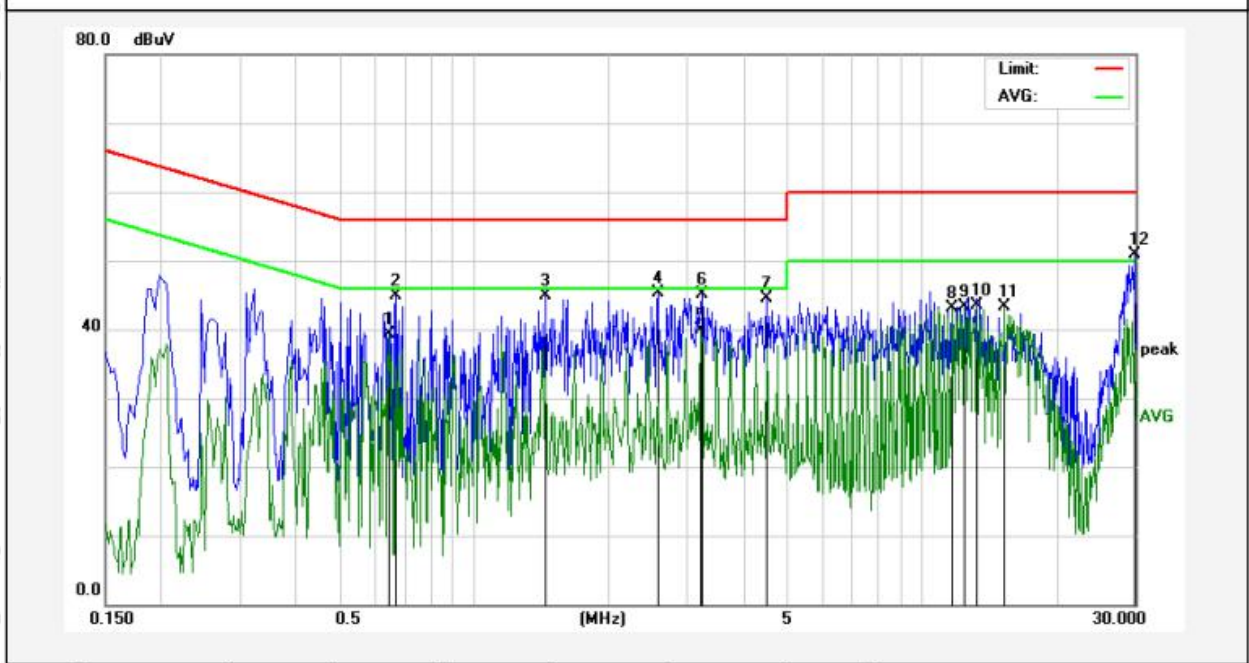
Test Site: 1# Shielded Room  
 Operating Condition: Mode 3  
 Test Specification: AC 120V, 60Hz for adapter  
 Comment: Live Line  
 Tem.: 23.1°C Hum.: 49%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.4380	46.32	0.13	46.45	57.10	-10.65	QP	
2	0.4380	41.95	0.13	42.08	47.10	-5.02	AVG	
3	0.5620	40.86	0.15	41.01	46.00	-4.99	AVG	
4	0.6260	40.25	0.15	40.40	46.00	-5.60	AVG	
5	0.6580	45.08	0.15	45.23	56.00	-10.77	QP	
6	2.1899	43.83	0.12	43.95	56.00	-12.05	QP	
7	3.2980	45.32	0.12	45.44	56.00	-10.56	QP	
8	4.5137	40.44	0.11	40.55	46.00	-5.45	AVG	
9	4.7738	40.16	0.11	40.27	46.00	-5.73	AVG	
10	4.9138	44.64	0.11	44.75	56.00	-11.25	QP	
11	14.5655	43.92	0.17	44.09	50.00	-5.91	AVG	
12	29.7540	50.11	0.36	50.47	60.00	-9.53	QP	

**Conducted Emission Test Data**

Test Site: 1# Shielded Room  
 Operating Condition: Mode 3  
 Test Specification: AC 120V, 60Hz for adapter  
 Comment: Neutral Line  
 Tem.: 23.1°C Hum.: 49%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.6460	39.06	0.15	39.21	46.00	-6.79	AVG	
2	0.6700	44.75	0.15	44.90	56.00	-11.10	QP	
3	1.4456	44.67	0.14	44.81	56.00	-11.19	QP	
4	2.5739	45.23	0.12	45.35	56.00	-10.65	QP	
5	3.2219	39.79	0.12	39.91	46.00	-6.09	AVG	
6	3.2378	44.89	0.12	45.01	56.00	-10.99	QP	
7	4.5099	44.31	0.11	44.42	56.00	-11.58	QP	
8	11.7339	42.96	0.14	43.10	50.00	-6.90	AVG	
9	12.5099	43.08	0.15	43.23	50.00	-6.77	AVG	
10	13.2779	43.31	0.15	43.46	50.00	-6.54	AVG	
11	15.3419	43.06	0.17	43.23	50.00	-6.77	AVG	
12	29.8460	50.51	0.36	50.87	60.00	-9.13	QP	

## 4. Radiation Spurious Emission

### 4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
-		74.0	Peak	3	

**Remark:**

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

### 4.2. Test Setup

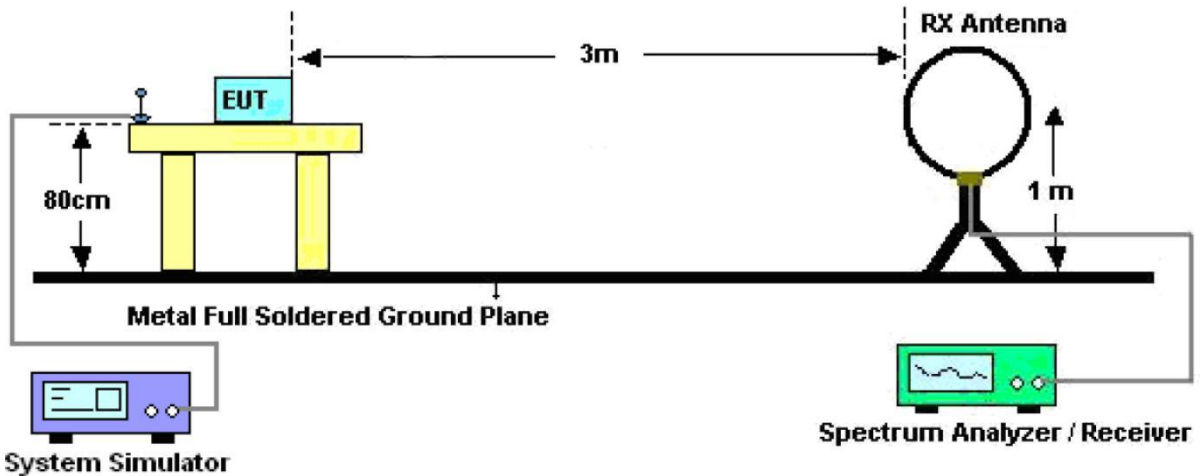


Figure 1. Below 30MHz

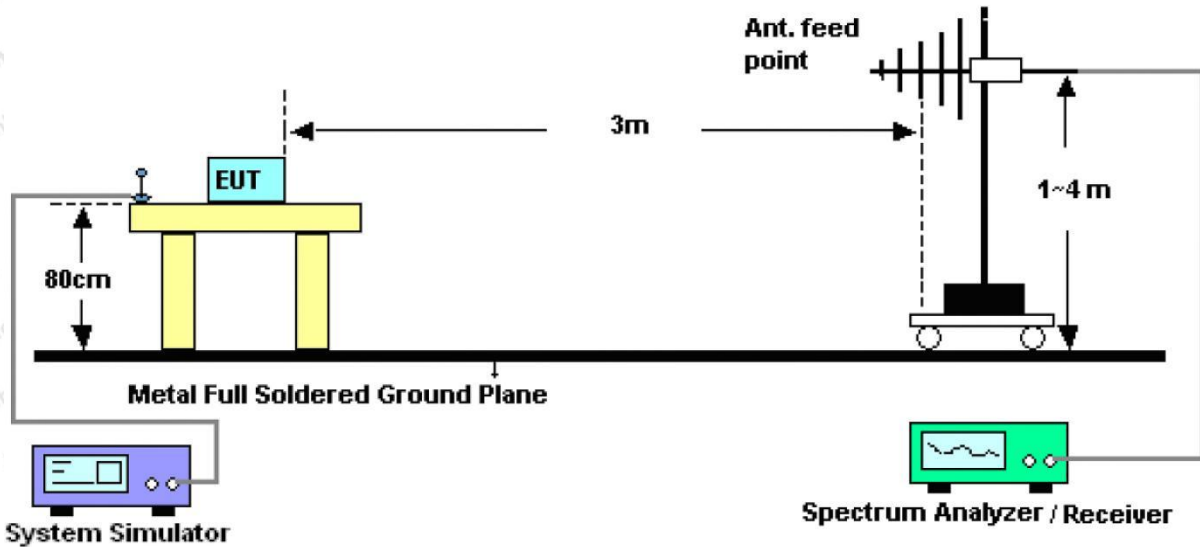


Figure 2. 30MHz to 1GHz

### 4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9\*6\*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9kHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

### 4.4. Test Data

**PASS**

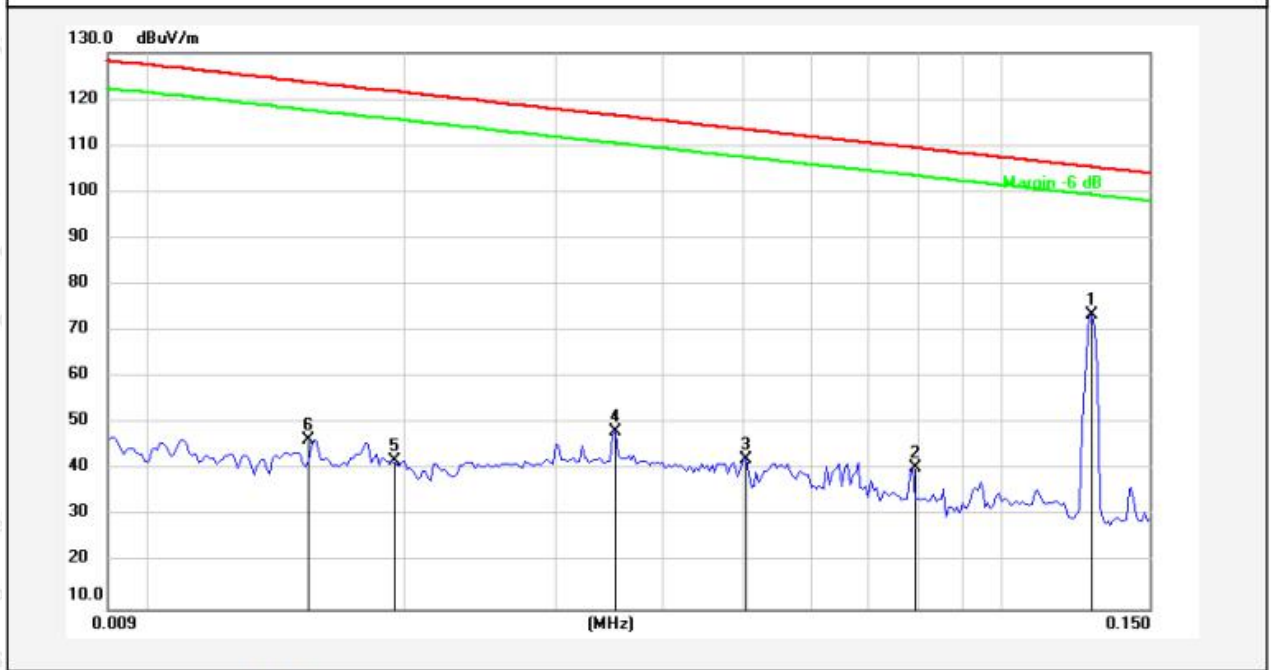
Note: The data is in TX mode, and this is the worst mode.



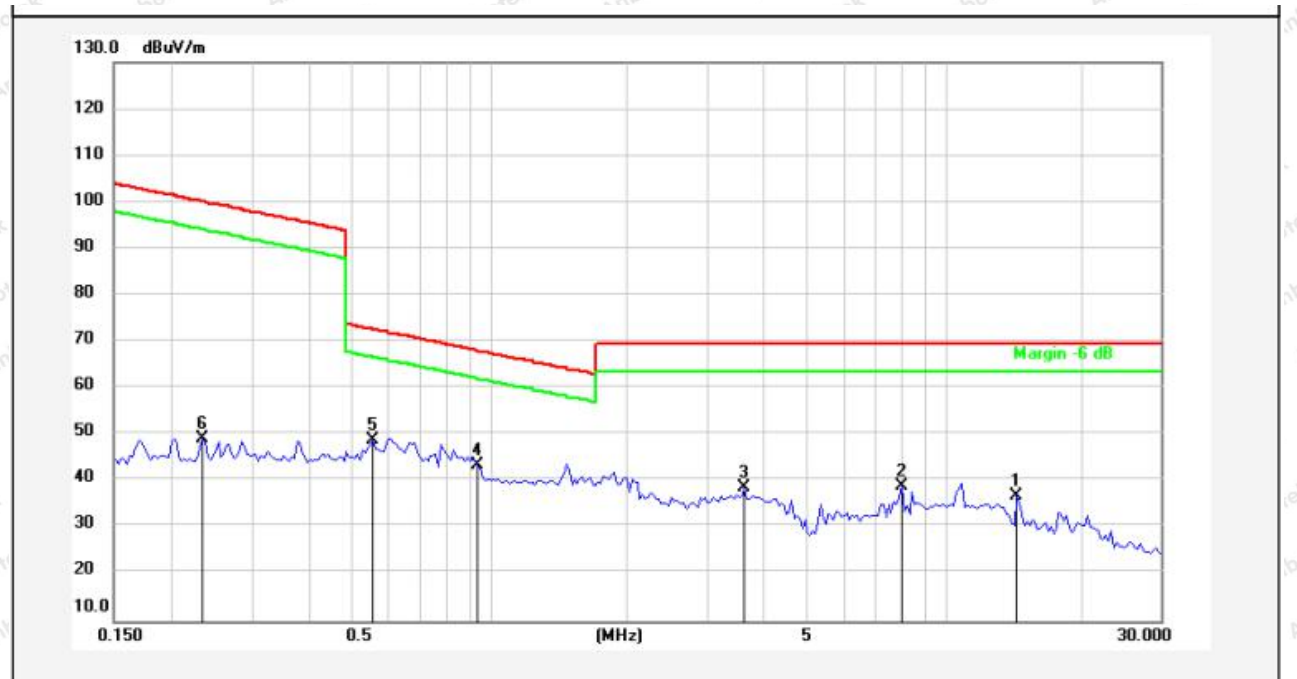
**Test Results**

(Between 9KHz – 30MHz)

**Standard:** FCC PART15 C\_3m      **Power Source:** AC 120V, 60Hz for adapter  
**Test item:** Radiation Test      **Temp.(C)/Hum.(%RH):** 22.7°C/49%RH  
**Test Mode:** Mode 3      **Distance:** 3m



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.1285	53.25	20.34	73.59	105.35	-31.76	AV			
2	0.0791	20.11	20.36	40.47	109.54	-69.07	AV			
3	0.0504	21.99	20.41	42.40	113.43	-71.03	AV			
4	0.0354	27.83	20.47	48.30	116.48	-68.18	AV			
5	0.0194	21.71	20.30	42.01	121.68	-79.67	AV			
6	0.0154	26.07	20.29	46.36	123.67	-77.31	AV			

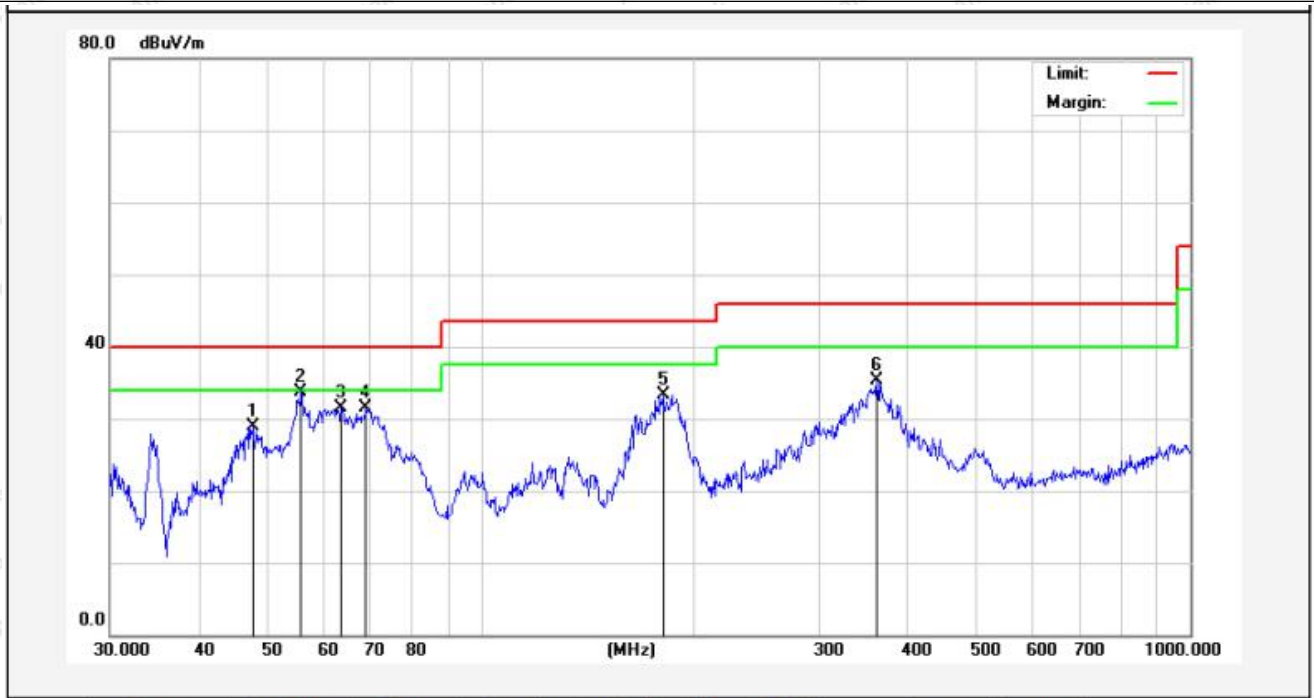


No.	Freq. (MHz)	Reading (dBuV)	Factor ( )	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	14.4786	16.25	20.54	36.79	69.50	-32.71	QP			
2	8.0838	18.44	20.50	38.94	69.50	-30.56	QP			
3	3.6514	18.20	20.34	38.54	69.50	-30.96	QP			
4	0.9455	23.28	20.26	43.54	68.11	-24.57	QP			
5	0.5564	28.44	20.28	48.72	72.70	-23.98	QP			
6	0.2353	28.95	20.30	49.25	100.13	-50.88	AV			

**Remark:** According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.

(Between 30MHz –1000 MHz)

<b>Standard:</b>	<b>FCC PART15 C _3m</b>	<b>Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Power Source:</b>	<b>AC 120V, 60Hz for adapter</b>
<b>Test Mode:</b>	<b>Mode 3</b>	<b>Temp.(C)/Hum.(%RH):</b>	<b>21.3°C/50%RH</b>
<b>Distance:</b>	<b>3m</b>		



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	47.6586	44.37	-15.50	28.87	40.00	-11.13	QP			
2	55.8047	51.30	-17.60	33.70	40.00	-6.30	QP			
3	63.5356	50.22	-18.79	31.43	40.00	-8.57	QP			
4	68.8721	53.14	-21.60	31.54	40.00	-8.46	QP			
5	180.6488	56.51	-23.15	33.36	43.50	-10.14	QP			
6	361.7139	51.36	-16.03	35.33	46.00	-10.67	QP			

**Standard:** FCC PART15 C \_3m      **Polarization:** Vertical  
**Test item:** Radiation Test      **Power Source:** AC 120V, 60Hz for adapter  
**Test Mode:** Mode 3      **Temp.(C)/Hum.(%RH):** 21.3°C/50%RH  
**Distance:** 3m



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.4237	52.62	-17.89	34.73	40.00	-5.27	QP			
2	47.4917	49.18	-15.41	33.77	40.00	-6.23	QP			
3	80.3619	54.73	-19.26	35.47	40.00	-4.53	QP			
4	110.1816	52.02	-18.21	33.81	43.50	-9.69	QP			
5	144.3348	56.51	-22.14	34.37	43.50	-9.13	QP			
6	160.9088	57.05	-21.61	35.44	43.50	-8.06	QP			

## 5. Antenna Requirement

### 5.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
Requirement	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, 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.

### 5.2. Antenna Connected Construction

The antenna is a Inductive loop coil Antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.

## APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement

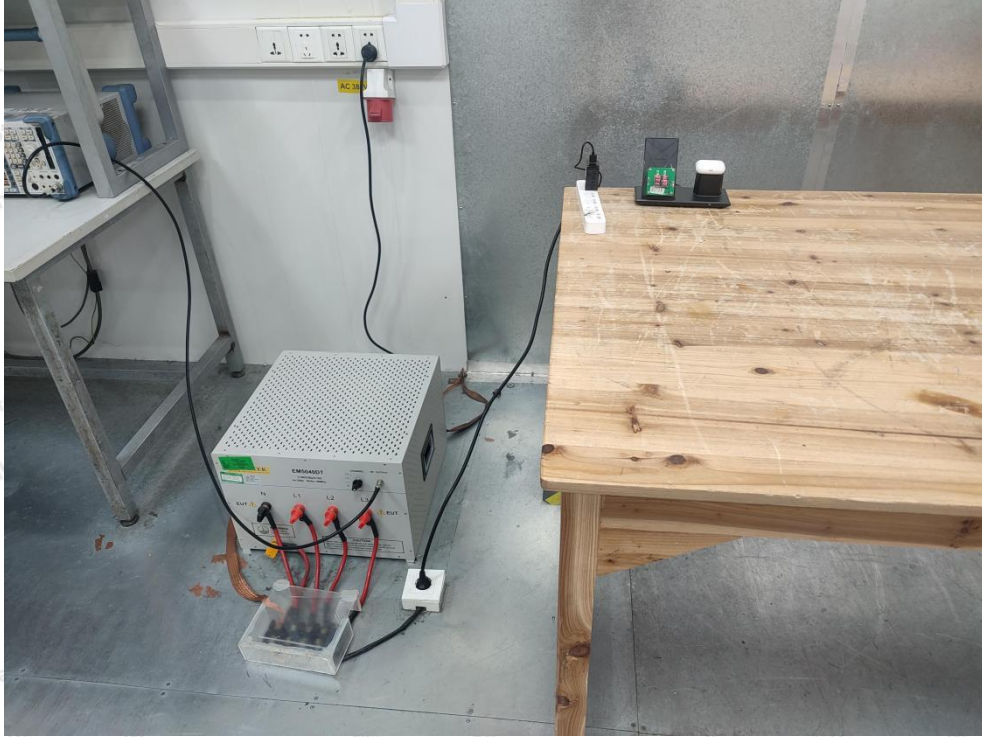
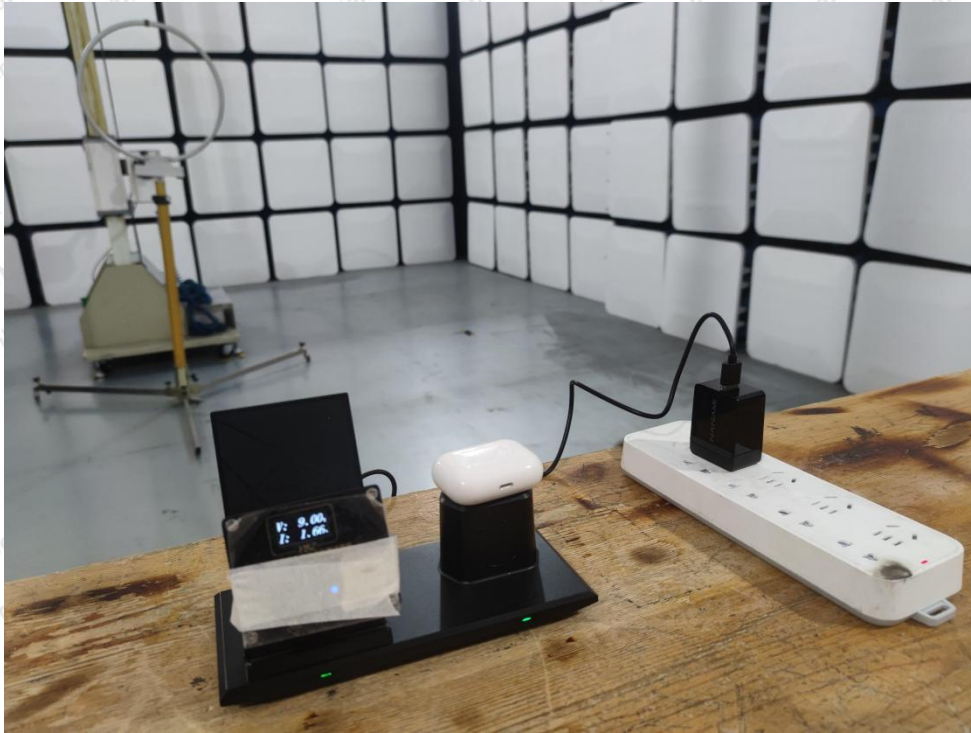


Photo of Radiation Emission Test

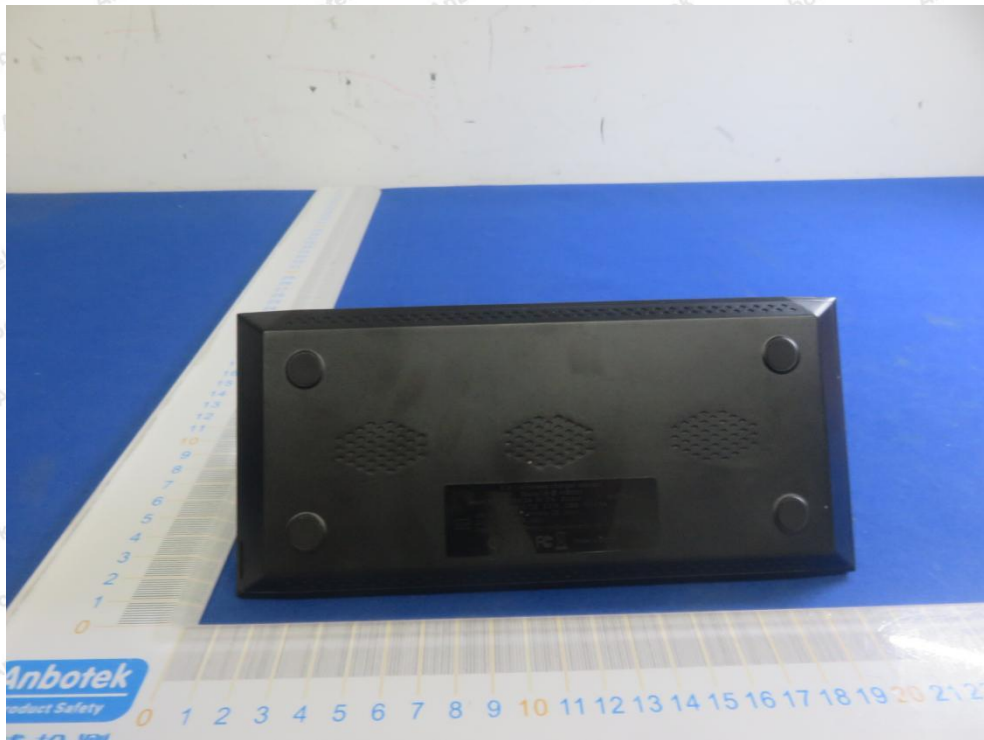


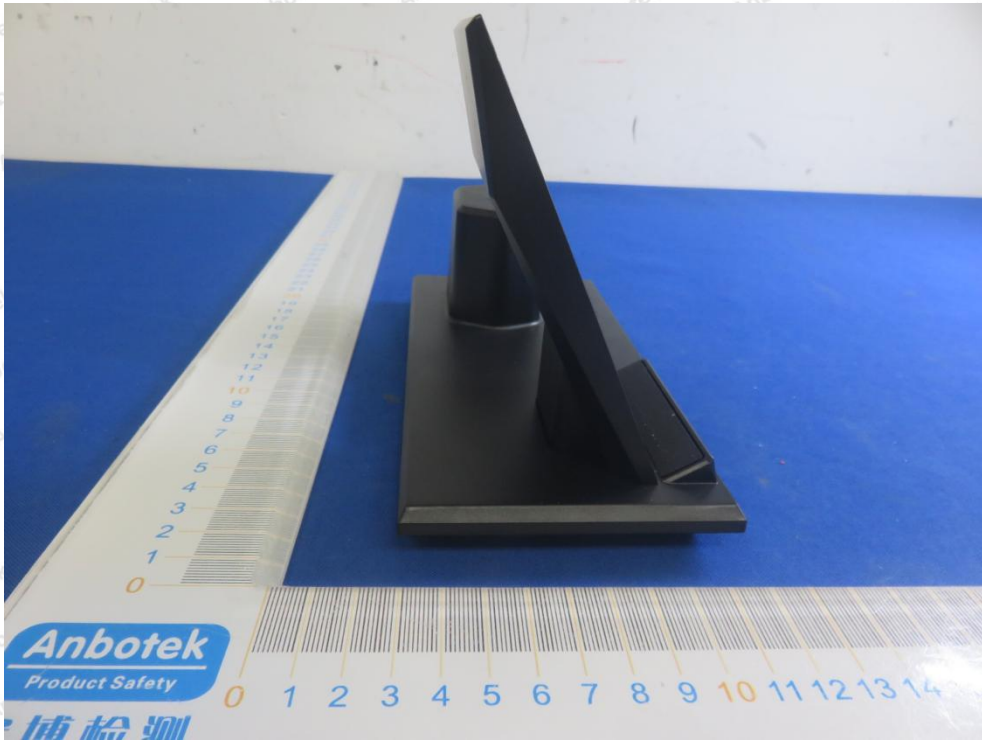
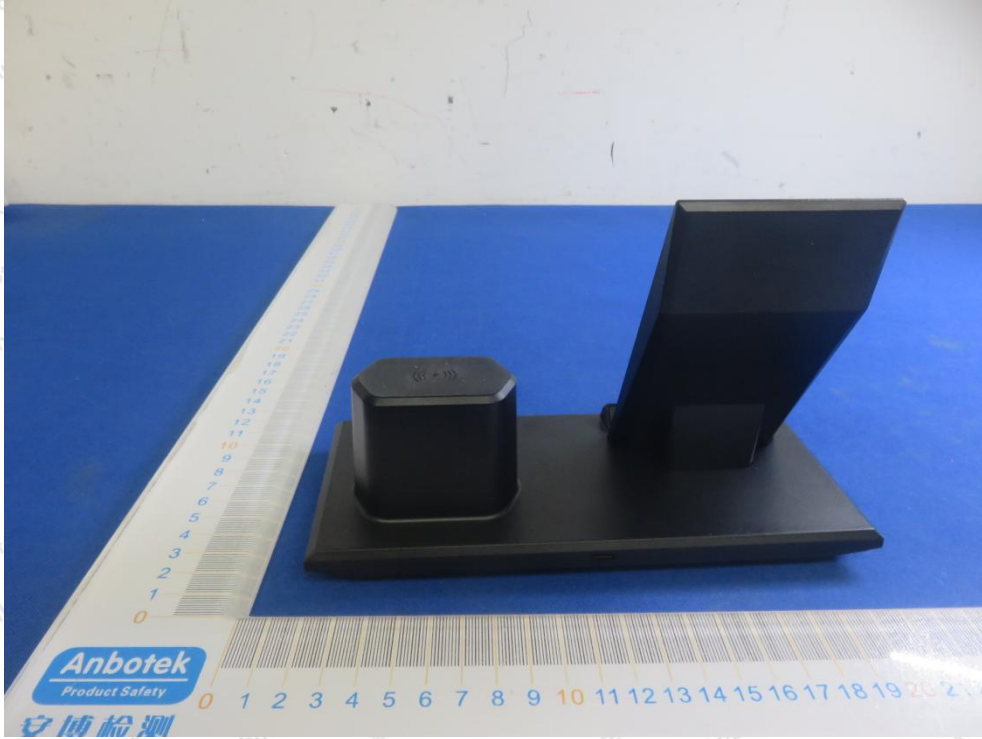


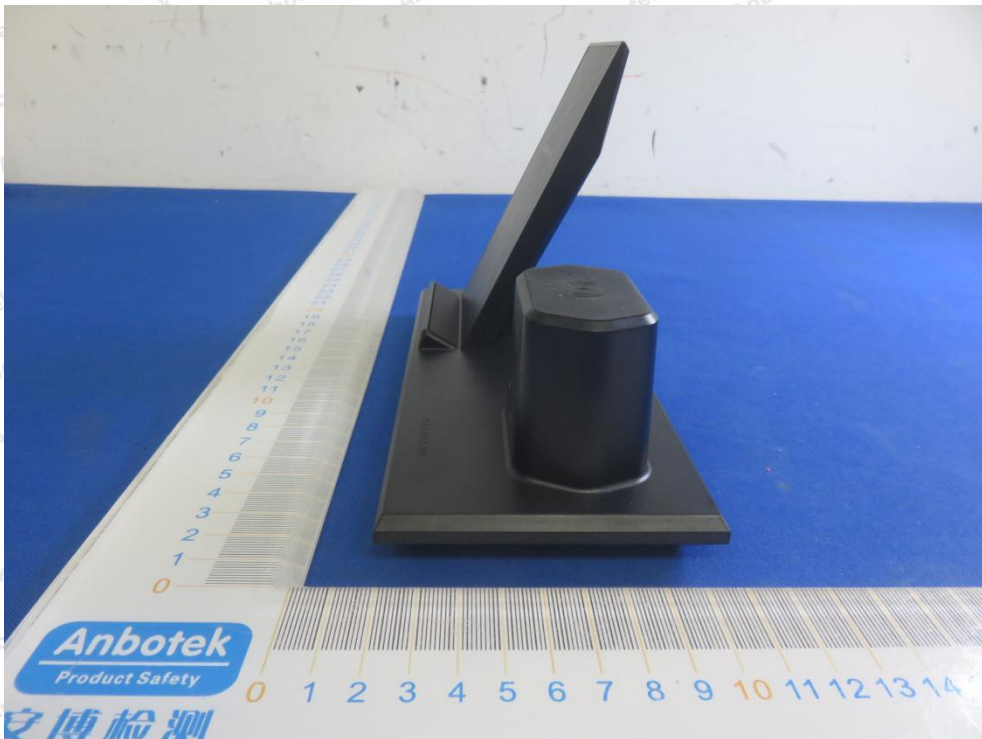
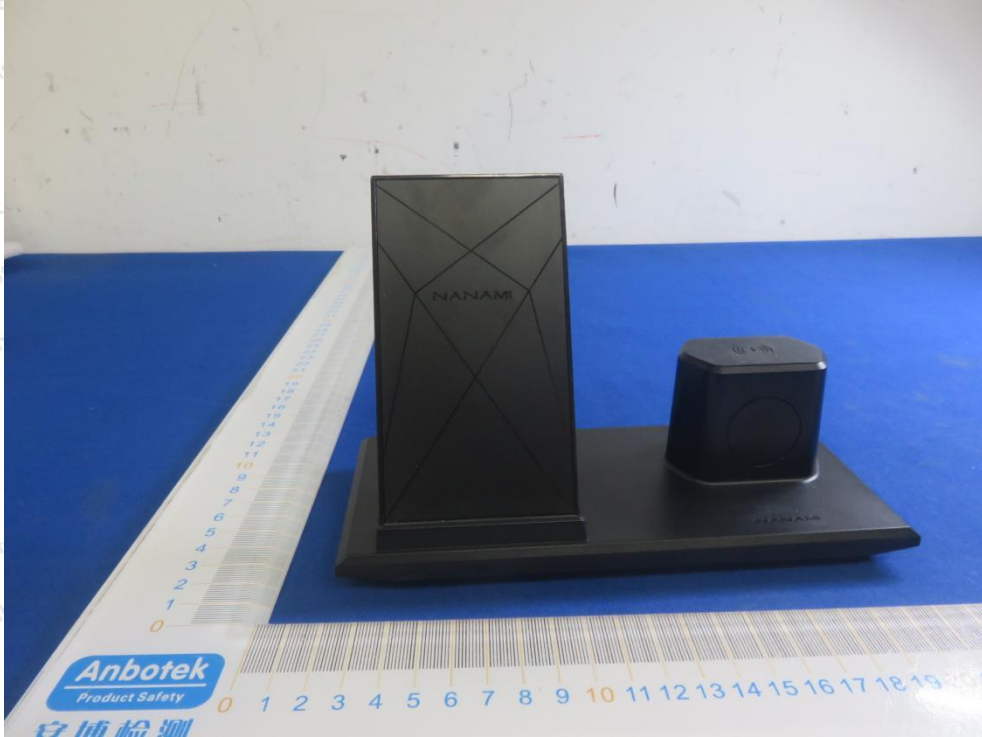
## APPENDIX II -- EXTERNAL PHOTOGRAPH







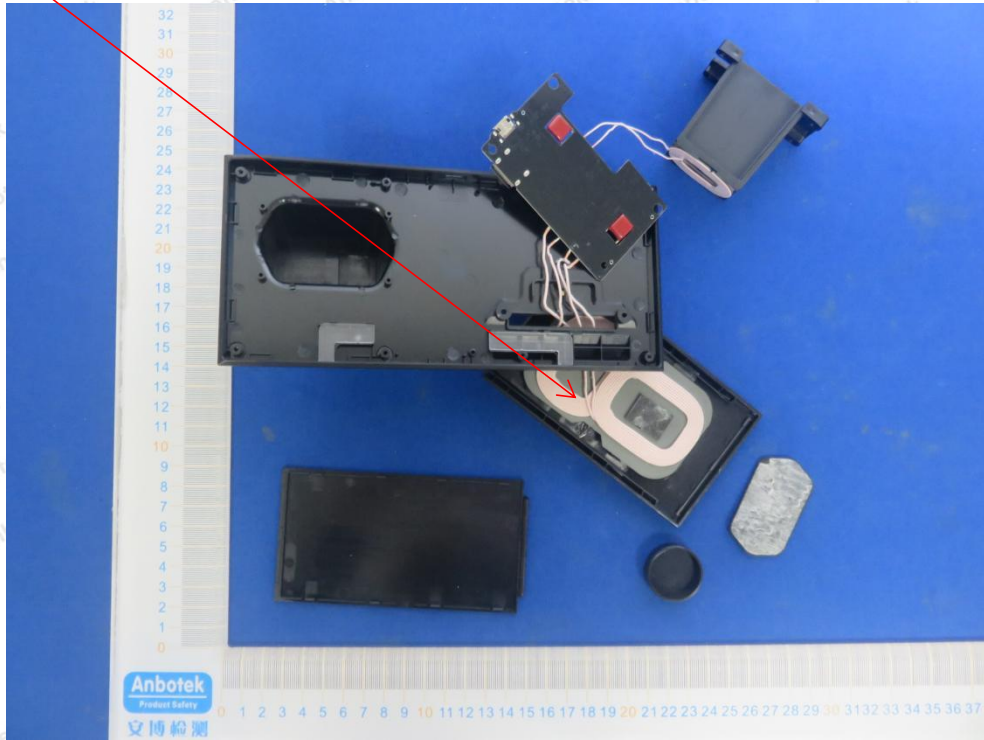


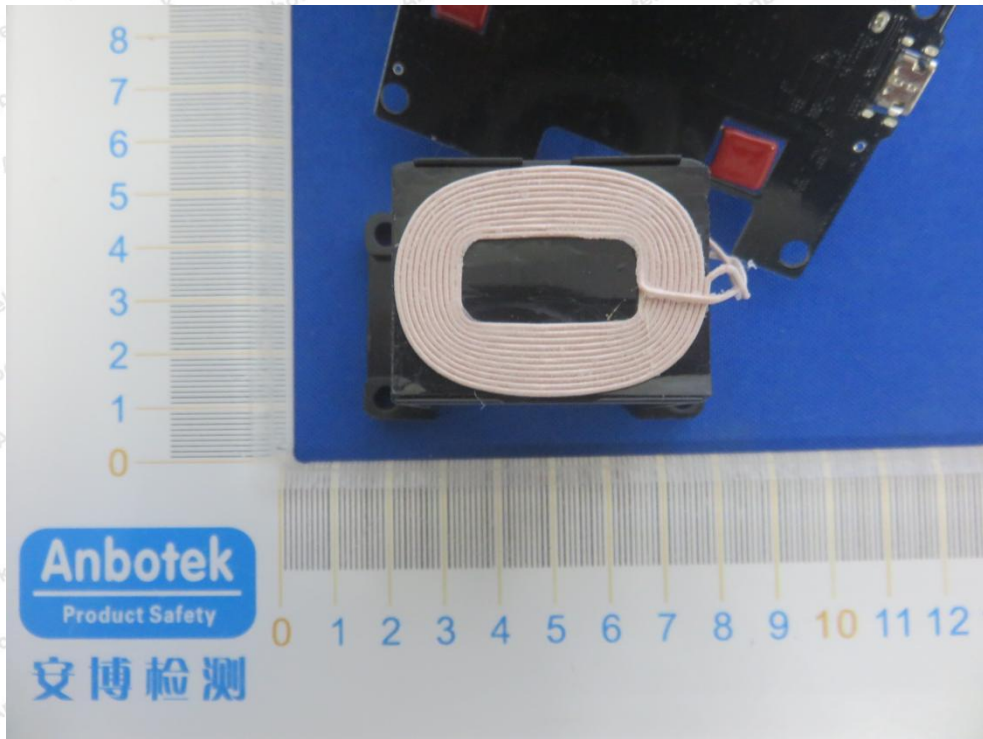
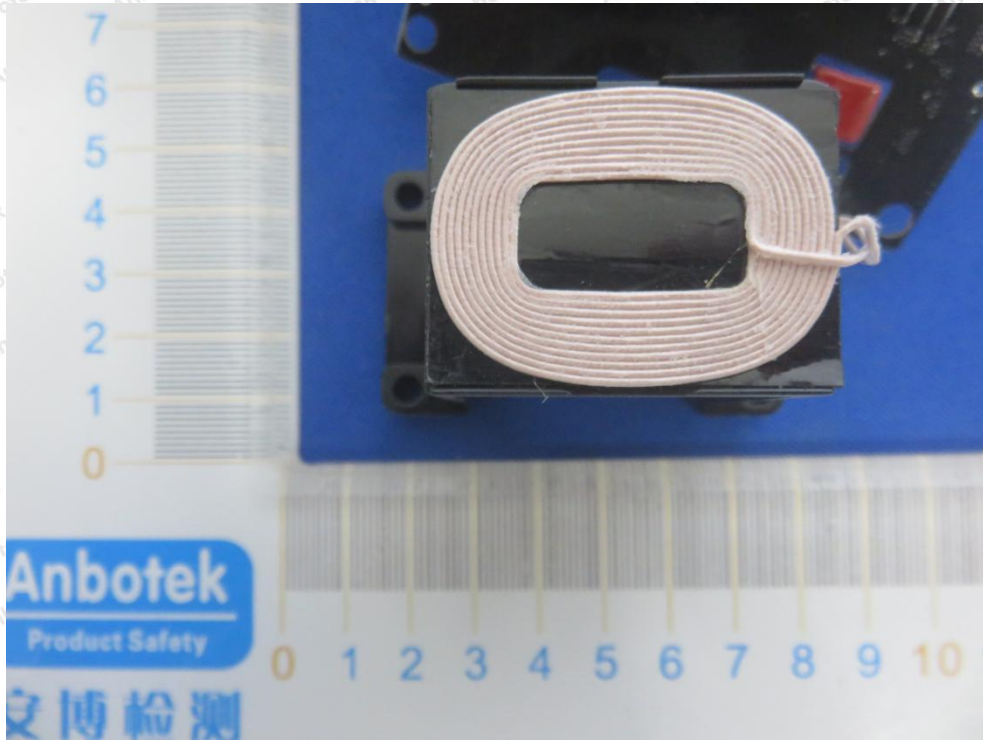


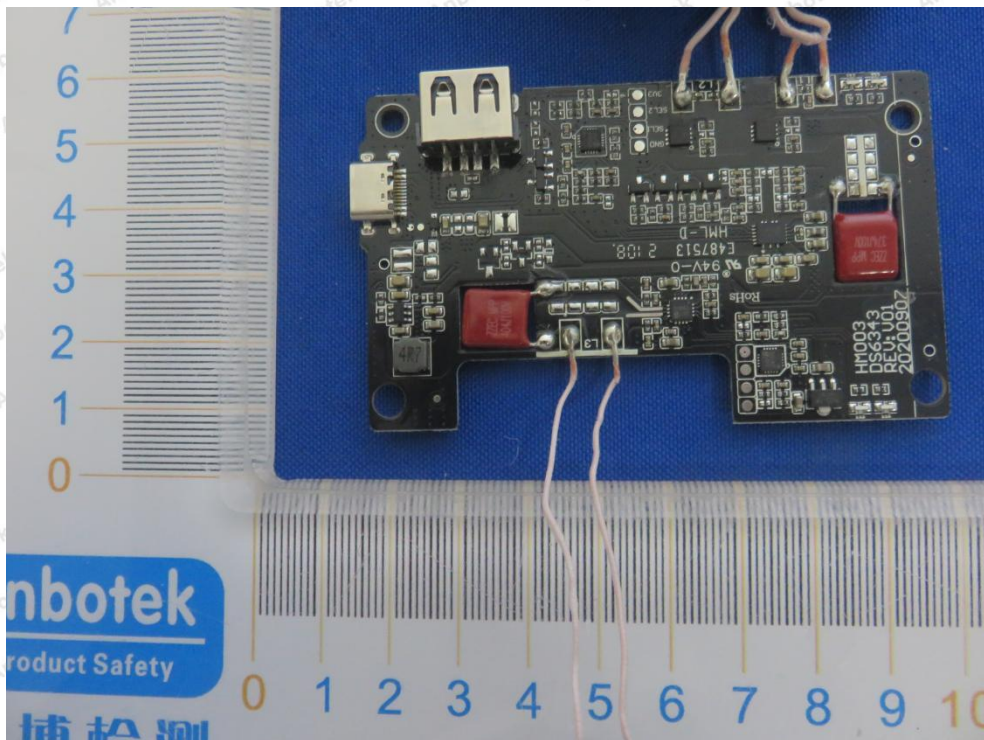
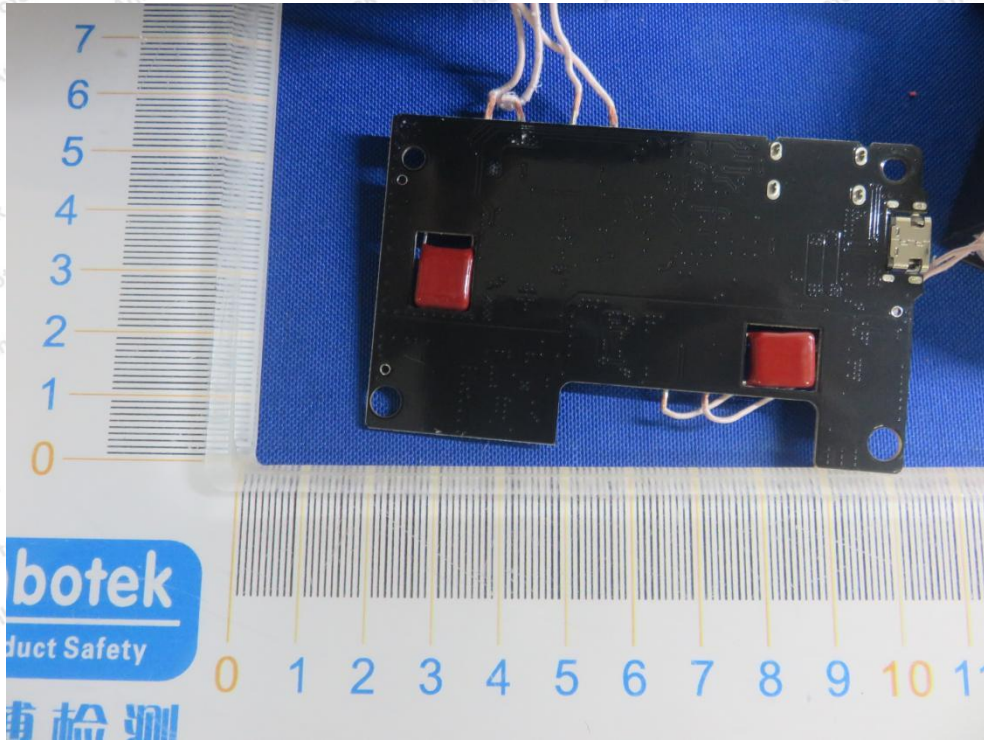
### APPENDIX III -- INTERNAL PHOTOGRAPH

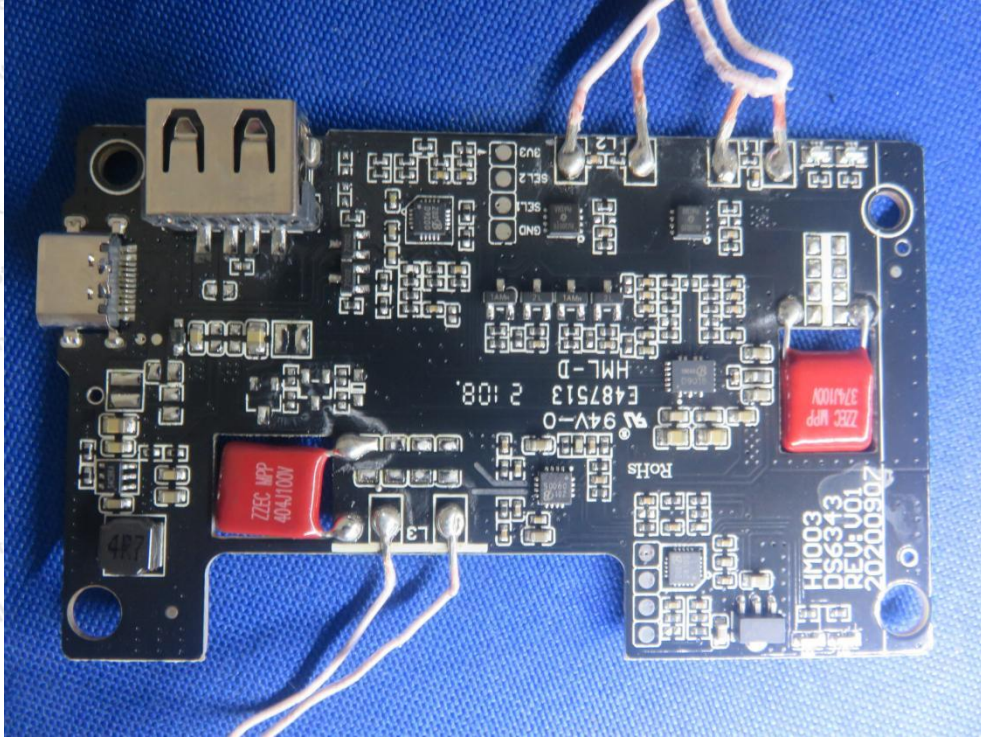


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----- End of Report -----