



# FCC TEST REPORT

## FCC ID: 2A323-W79PRO

**Product** : Wireless Charger  
W79PRO, W79, W33Pro, W33, W34, W35, W36, W37,  
W40, W55, W56, W57, W58, W66, W68, W69, W70, W71,  
W72, W73, W75, W75Pro, W78, W78Pro, W80, W81,  
**Model Name** : W82, W82S, W82Pro, W82SPro, W83, W83Pro, W84,  
W85, W86, W87, W88, W89, W90, MOKCA027,  
GBECA027, BK-002D, SU-8383, TB-001-W, TB-001-B,  
WT-A433, WLC-31FLD-521  
**Brand** : N/A  
**Report No.** : NCT23052307E

Prepared for

**Shenzhen Meskey Technology co., ltd**  
Room 401, Yuanshuo Science Park, Guihua Community,  
Guanlan, Longhua, shenzhen, China

Prepared by

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Baoan District, Shenzhen, China

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## 1 TEST RESULT CERTIFICATION

Applicant's name : Shenzhen Meskey Technology co., ltd

Address : Room 401, Yuanshuo Science Park, Guihua Community,  
Guanlan, Longhua, shenzhen, China

Manufacture's name : Shenzhen Meskey Technology co., ltd

Address : Room 401, Yuanshuo Science Park, Guihua Community,  
Guanlan, Longhua, shenzhen, China

Product name : Wireless Charger

Model name : W79PRO, W79, W33Pro, W33, W34, W35, W36, W37, W40, W55, W56,  
W57, W58, W66, W68, W69, W70, W71, W72, W73, W75, W75Pro, W78,  
W84, W85, W86, W87, W88, W89, W90, MOKCA027, GBECA027,  
BK-002D, SU-8383, TB-001-W, TB-001-B, WT-A433, WLC-31FLD-521

Standards : FCC CFR Title 47 Part 15 Subpart C

Test procedure : ANSI C63.10: 2013

Date of Receipt : Dec. 11, 2023

Test Date : Dec. 11, 2023 ~ Dec. 26, 2023

Date of Issue : Dec. 26, 2023

This device described above has been tested by NCT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:



Keven Wu / Engineer

Technical Manager:



Henry Wang / Manager

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**2 Test Summary**

<b>Test Items</b>	<b>Test Requirement</b>	<b>Result</b>
AC Power Line Conducted Emission	15.207	Pass
Spurious Emission	15.209(a)(f)	Pass
Antenna requirement	15.203	Pass

## 2.1 Test Site

### Site Description

EMC Lab. : Accredited by CNAS, 2022-09-27

The certificate is valid until 2028.01.07

The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2017)

The Certificate Registration Number is L8251

Designation Number: CN1347

Test Firm Registration Number: 894804

Accredited by A2LA, June 14, 2023

The Certificate Registration Number is 6837.01

Accredited by Industry Canada, November 09, 2018

The Conformity Assessment Body Identifier is CN0150

Name of Firm : Shenzhen NCT Testing Technology Co., Ltd.

Site Location : A101&B2, Fuqiao 6th Area , Xintian Community, Fuhai Street,  
Baoan District, Shenzhen, China

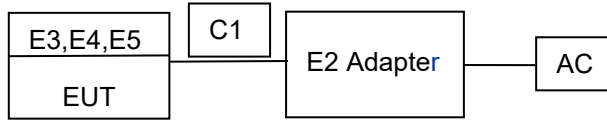
### 3 General Information

#### 3.1 General Description of E.U.T.

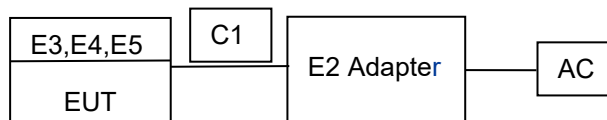
Product Name	:	Wireless Charger
Model Name	:	W79PRO
Model Difference	:	W79, W33Pro, W33, W34, W35, W36, W37, W40, W55, W56, W57, W58, W66, W68, W69, W70, W71, W72, W73, W75, W75Pro, W78, W78Pro, W80, W81, W82, W82S, W82Pro, W82SPro, W83, W83Pro, W84, W85, W86, W87, W88, W89, W90, MOKCA027, GBECA027, BK-002D, SU-8383, TB-001-W, TB-001-B, WT-A433, WLC-31FLD-521 (All models have same circuits diagram, PCB Layout, construction and rated power, only different was the model name.)
Sample ID	:	NCT23052307#
Sample(s) Status:	:	N/A
Series Model	:	N/A
Operating frequency	:	110KHz-205KHz
Type of Modulation	:	ASK
Antenna installation	:	Inductive loop coil Antenna
Antenna Gain	:	0dBi
Power supply	:	Input: DC 9V/2A Output 1: Phone 5W/7.5W/10W/15W (Max) Output 2: TWS 5W (Max) Output 3: Watch 3W (Max)
Hardware Version	:	N/A
Software Version	:	N/A
<p>Remark:the Antenna gain is provided by customer from Antenna spec. and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant.</p>		

## 3.2 Test Setup Configuration

Conducted Emission



Radiated Emission



## 3.3 Test Mode

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based 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.

Mode 1	Charging+Wireless (Phone 15W)
Mode 2	Charging+Wireless (Phone 10W)
Mode 3	Charging+Wireless (Phone 7.5W)
Mode 4	Charging+Wireless (Phone 5W)
Mode 5	Charging+Wireless (Watch 3W)
Mode 6	Charging+Wireless (TWS 5W)
Mode 7	Charging+Wireless (Phone 5W+TWS 5W+ Watch 3W)
Mode 8	Charging+Wireless (Phone 7.5W+TWS 5W)
Mode 9	Charging+Wireless (Phone 7.5W+Watch 3W)
Mode 10	Charging+Wireless (Phone 10W+ TWS 5W)
Mode 11	Charging+Wireless (Phone 10W+ Watch 3W)
Mode 12	Charging+Wireless (Watch 3W+TWS 5W)
Mode 13	Charging+Wireless (Phone 15W+TWS 5W+ Watch 3W)
Mode 14	Charging+Wireless (Phone 10W+TWS 5W+ Watch 3W)
Mode 15	Charging+Wireless (Phone 7.5W+TWS 5W+ Watch 3W)
Mode 16	Charging+Wireless (Phone 5W+TWS 5W+ Watch 3W)
Note: All test modes were pre-tested, but we only recorded the worst Mode 13 case in this report.	



## 4 Equipment During Test

### 4.1 Equipments List

Conducted emission Test Equipment

Conducted emission					
Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
EMI Test Receiver	ESPI	101604	RS	2023/6/21	2024/6/20
LISN	ENV 216	102796	RS	2023/3/17	2024/3/16
LISN	VN1-13S	004023	CRANAGE	2023/6/21	2024/6/20

Radiated emission & Radio Frequency Test Equipment

Radiated emission					
Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
EMI Test Receiver	ESCI	101178	RS	2023/6/21	2024/6/20
Spectrum Analyzer	N9020A	MY50510202	Agilent	2023/6/21	2024/6/20
Amplifier	BBV 9743 B	00374	SCHWARZBECK	2023/6/21	2024/6/20
Bilog Antenna	VULB9162	00473	SCHNARZBECK	2023/3/19	2025/3/18
Horn antenna	BBHA 9120 D	02622	SCHNARZBECK	2023/3/19	2024/3/18
Preamplifier	BBV 9718D	00042	SCHNARZBECK	2023/6/21	2024/6/20
Loop Antenna (9KHz-30MHz)	FMZB1519B	014	SCHNARZBECK	2023/6/6	2024/6/5

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	AUDIX	e3	6.120718
2	EMC radiation test system	AUDIX	e3	6.120718
3	RF test system	TACHOY	RFTTest	V1.0.0
4	RF communication test system	TACHOY	RFTTest	V1.0.0

### 4.2 Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	±1.0dB
Power Spectral Density, conducted	±2.2dB
Radio Frequency	± 1 x 10 <sup>-6</sup>
Bandwidth	± 1.5 x 10 <sup>-6</sup>
Time	±2%
Duty Cycle	±2%
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±3%
Conducted Emissions (150kHz~30MHz)	±3.64dB
Radiated Emission(30MHz~1GHz)	±5.03dB
Radiated Emission(1GHz~25GHz)	±4.74dB
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%	

### 4.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E1	Wireless Charger	N/A	W79	N/A	EUT
E2	Adapter	OPPO	VCB7CACH	N/A	Auxiliary
E3	Mobile Phone	OPPO	OPPO A96	N/A	Auxiliary
E4	Watch	Apple	Iwatch Ultra	N/A	Auxiliary
E5	TWS headphones	Redmi	AirDots3 Pro	N/A	Auxiliary

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

## 5 Conducted Emission

Test Requirement : FCC Part15 C Section 15.207  
Test Method : ANSI C63.10:2013  
Test Result : PASS  
Frequency Range : 9kHz to 30MHz  
Class/Severity : Class B

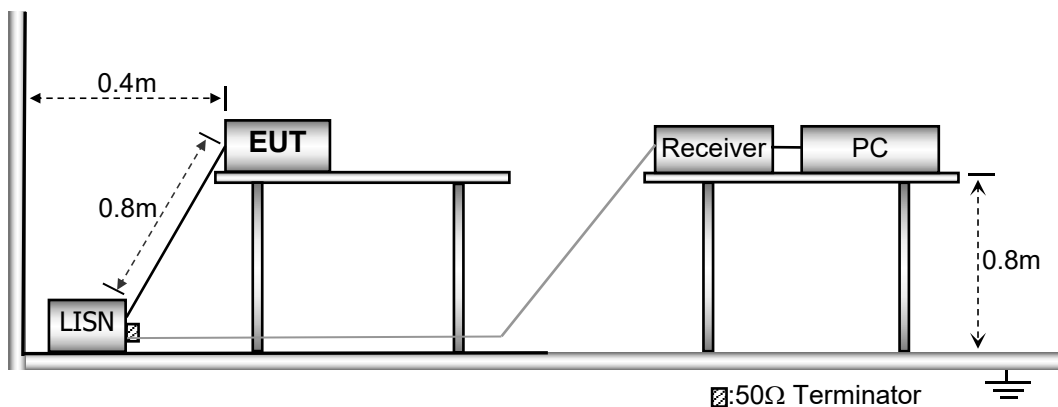
### 5.1 E.U.T. Operation

Operating Environment :

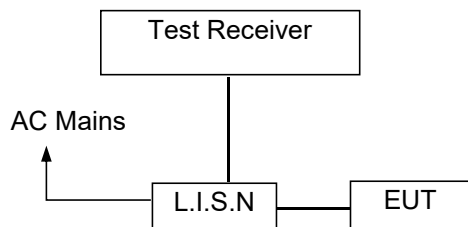
Temperature : 25.5 °C  
Humidity : 51 % RH  
Atmospheric Pressure : 101.2kPa

### 5.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10:2013.



### 5.3 Test SET-UP (Block Diagram of Configuration)



### 5.4 Measurement Procedure

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

### 5.5 Conducted Emission Limit

#### Conducted Emission

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

#### Note:

1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 5.6 Measurement Description

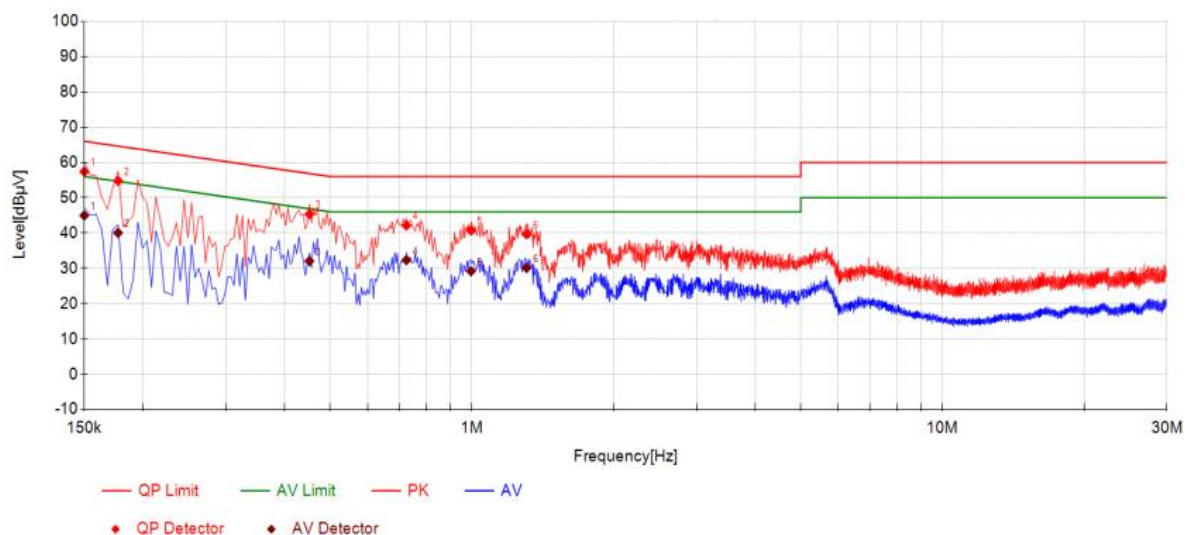
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

### 5.7 Conducted Emission Test Result

Pass.

We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 13

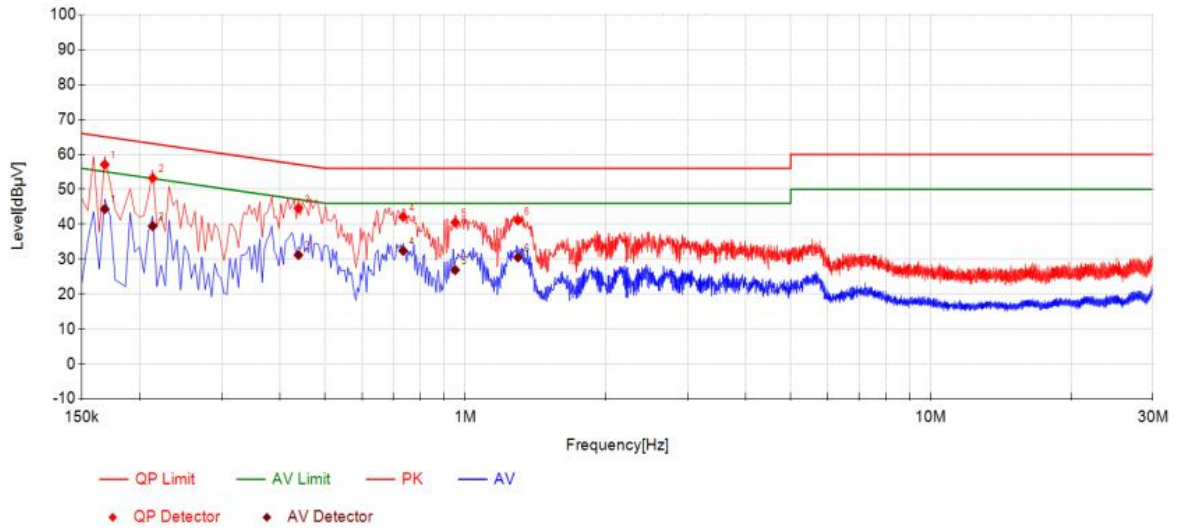


NO.	Freq. [MHz]	QP Value [dB µ V]	QP Limit [dB µ V]	QP Margin [dB]	AV Value [dB µ V]	AV Limit [dB µ V]	AV Margin [dB]	Verdict
1	0.150	57.39	66.00	8.61	44.95	56.00	11.05	PASS
2	0.177	54.77	64.63	9.86	40.04	54.63	14.59	PASS
3	0.4515	45.32	56.85	11.53	32.03	46.85	14.82	PASS
4	0.726	42.13	56.00	13.87	32.32	46.00	13.68	PASS
5	0.996	40.70	56.00	15.30	29.16	46.00	16.84	PASS
6	1.3065	39.64	56.00	16.36	30.09	46.00	15.91	PASS

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 13



NO.	Freq. [MHz]	QP Value [dB µV]	QP Limit [dB µV]	QP Margin [dB]	AV Value [dB µV]	AV Limit [dB µV]	AV Margin [dB]	Verdict
1	0.168	57.10	65.06	7.96	44.35	55.06	10.71	PASS
2	0.213	53.20	63.09	9.89	39.46	53.09	13.63	PASS
3	0.438	44.57	57.10	12.53	31.19	47.10	15.91	PASS
4	0.735	42.12	56.00	13.88	32.41	46.00	13.59	PASS
5	0.951	40.50	56.00	15.50	26.88	46.00	19.12	PASS
6	1.2975	41.12	56.00	14.88	30.49	46.00	15.51	PASS

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

## 6 Radiated Spurious Emissions

Test Requirement : FCC CFR47 Part 15 Section 15.209  
 Test Method : ANSI C63.10:2013  
 Test Result : PASS  
 Measurement Distance : 3m  
 Limit : See the follow table

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log <sup>(2400/F(kHz))</sup> + 80
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log <sup>(24000/F(kHz))</sup> + 40
1.705 ~ 30	30	30	100 * 30	20log <sup>(30)</sup> + 40
30 ~ 88	100	3	100	20log <sup>(100)</sup>
88 ~ 216	150	3	150	20log <sup>(150)</sup>
216 ~ 960	200	3	200	20log <sup>(200)</sup>
Above 960	500	3	500	20log <sup>(500)</sup>

### 6.1 EUT Operation

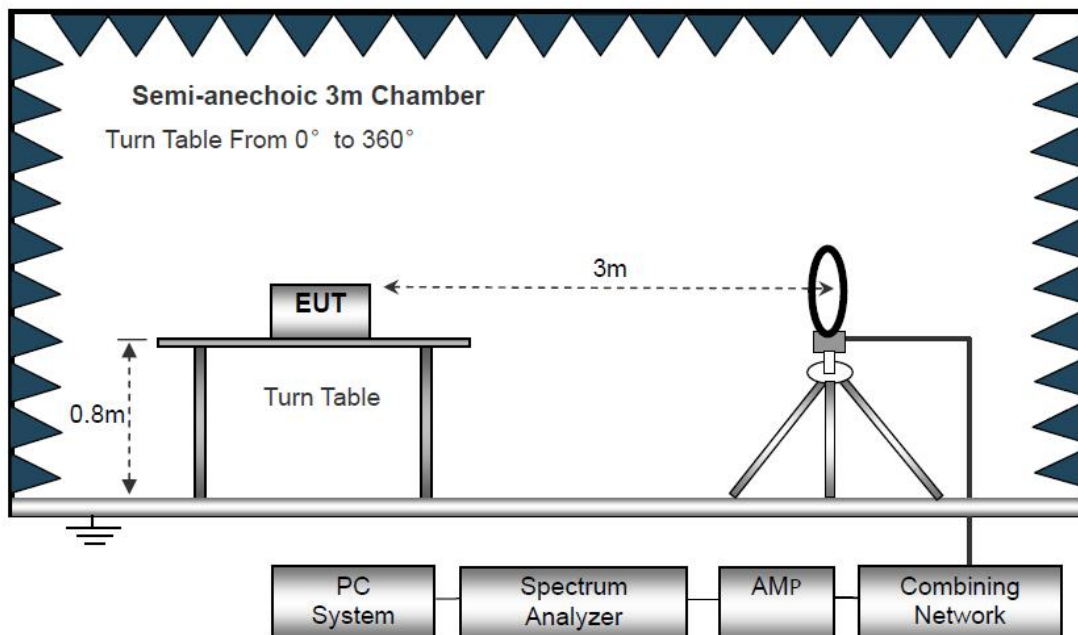
Operating Environment :

Temperature : 23.5 °C  
 Humidity : 51.1 % RH  
 Atmospheric Pressure : 101.2kPa

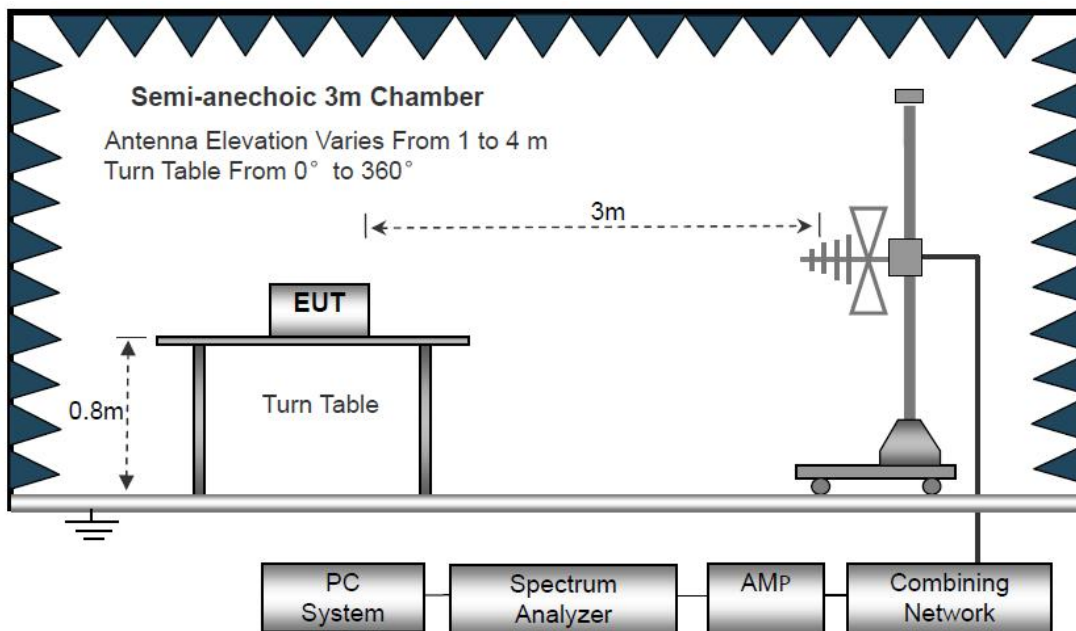
## 6.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site

The test setup for emission measurement below 30MHz

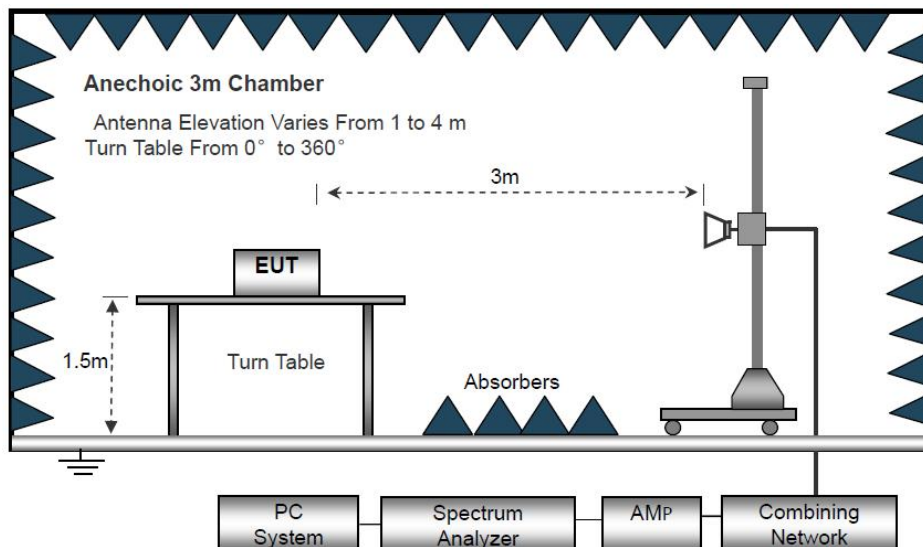


The test setup for emission measurement from 30 MHz to 1 GHz.





The test setup for emission measurement above 1 GHz



### 6.3 Spectrum Analyzer Setup

	Frequency	Detector	RBW	VBW	Remark
Receiver Setup	Below 30MHz	--	10kHz	10kHz	--
	30MHz ~ 1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value

### 6.4 Test Procedure

The EUT is placed on a turn table which is 0.8 meter above ground. 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 move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna (calibrated by dipole antenna) are used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement.

### 6.5 Spectrum Analyzer Setup

	Frequency	Detector	RBW	VBW	Remark
Receiver Setup	Below 30MHz	--	10kHz	10kHz	--
	30MHz ~ 1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value

## 6.6 Summary of Test Results

Test Frequency: 9KHz-30MHz

Temperature:	26°C	Relative Humidity:	53%
Pressure:	101kPa	Polarization:	Coaxial
Test Voltage :	AC 120V/50Hz	Test Mode :	Mode 13

Frequency (kHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector Type
159.2	95.69	20.03	115.72	123.57	-7.85	PK
159.2	76.63	20.03	96.66	103.57	-6.91	AV
318.4	84.75	20.17	104.92	117.54	-12.62	PK
318.4	68.12	20.17	88.29	97.54	-9.25	AV
477.6	80.34	20.62	100.96	114.02	-13.06	PK
477.6	64.03	20.62	84.65	94.02	-9.37	AV
681.3	32.38	20.77	53.15	70.74	-17.59	QP
2436.69	28.13	21.38	49.51	69.54	-20.03	QP
5384.05	24.71	22.28	46.99	69.54	-22.55	QP

Note:

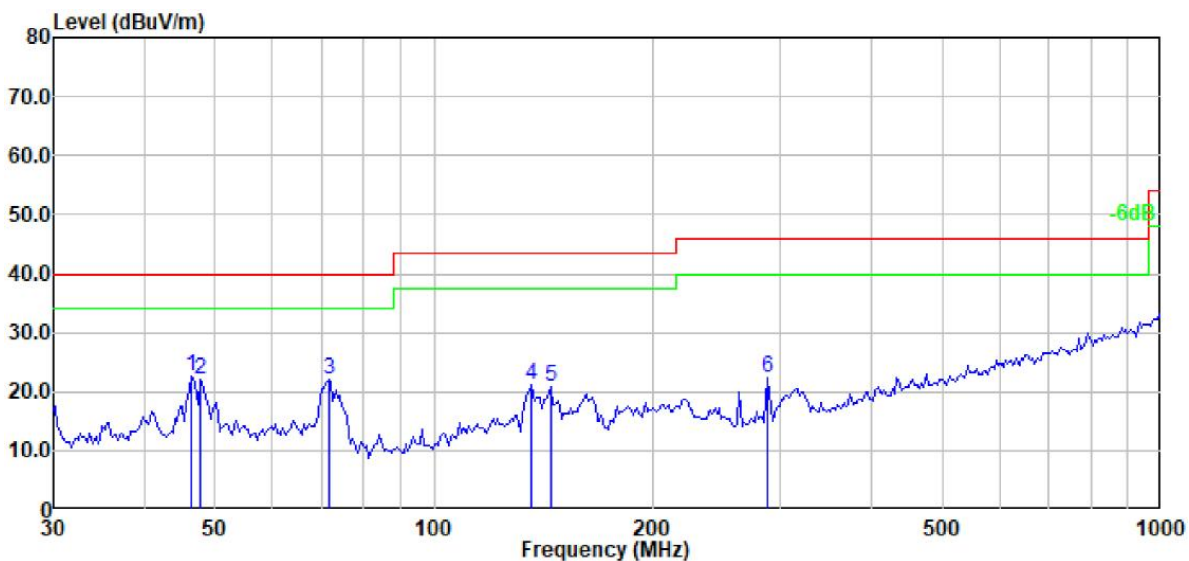
Pre-scan in the all of mode, the worst case in of was recorded.

Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level- Limit.

**Test Frequency: 30MHz ~ 1GHz**

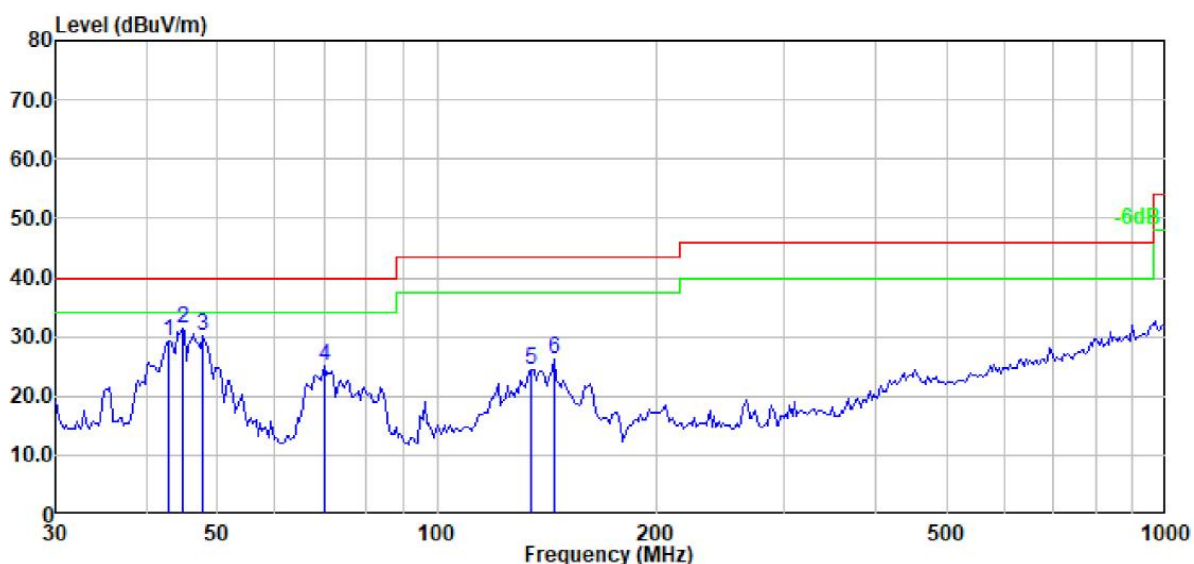
Temperature:	26°C	Relative Humidity:	53%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage :	AC 120V/50Hz	Test Mode :	Mode 13



	Read	Limit	Over					
1	2	3	4	5	6	7	8	
1	2	3	4	5	6	7	8	
1	2	3	4	5	6	7	8	
1	2	3	4	5	6	7	8	
1	2	3	4	5	6	7	8	
	Read	Level	Level	Factor	Limit	Over	Pol/Phase	Remark
	Freq	Level	Level	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dBuV/m	dB/m	dBuV/m	dB		
1	46.381	35.01	22.59	-12.42	40.00	-17.41	Horizontal	QP
2	47.703	34.38	21.91	-12.47	40.00	-18.09	Horizontal	QP
3	71.705	36.70	22.00	-14.70	40.00	-18.00	Horizontal	QP
4	135.916	34.01	21.14	-12.87	43.50	-22.36	Horizontal	QP
5	144.790	32.91	20.97	-11.94	43.50	-22.53	Horizontal	QP
6	288.284	33.92	22.28	-11.64	46.00	-23.72	Horizontal	QP

Remark: Level=Reading Level + Factor; Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Temperature:	26°C	Relative Humidity:	53%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage :	AC 120V/50Hz	Test Mode :	Mode 13



	Read Freq	Read Level	Level	Factor	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dBuV/m	dB/m	dBuV/m	dB		
1	42.931	41.59	29.19	-12.40	40.00	-10.81	Vertical	QP
2	44.779	43.81	31.43	-12.38	40.00	-8.57	Vertical	QP
3	47.703	42.70	30.23	-12.47	40.00	-9.77	Vertical	QP
4	70.210	39.60	25.02	-14.58	40.00	-14.98	Vertical	QP
5	134.965	37.49	24.54	-12.95	43.50	-18.96	Vertical	QP
6	144.790	38.08	26.14	-11.94	43.50	-17.36	Vertical	QP

Remark: Level=Reading Level + Factor; Factor = Antenna Factor + Cable Loss - Pre-amplifier.

## 7 Antenna Application

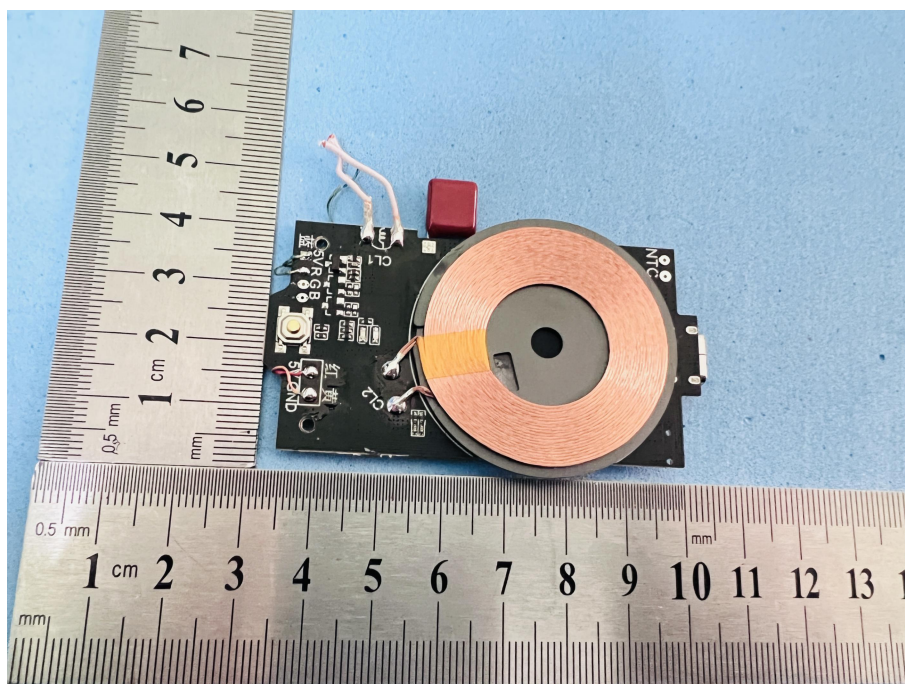
### 7.1 Antenna Requirement

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

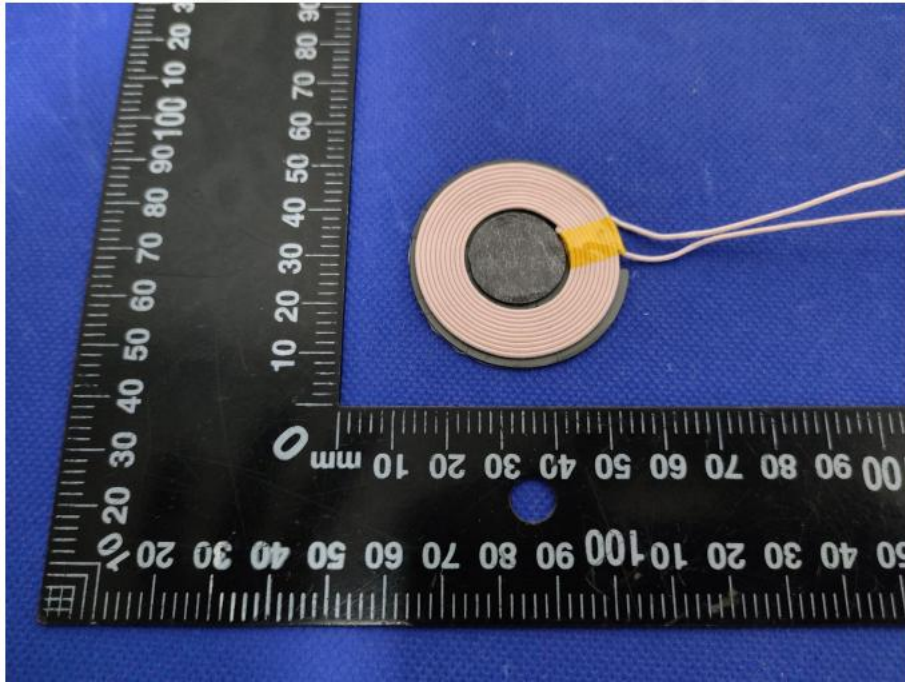
### 7.2 Result

The EUT'S antenna, permanent attached antenna, is internal PCB antenna. The antenna's gain is 0 dBi and meets the requirement.

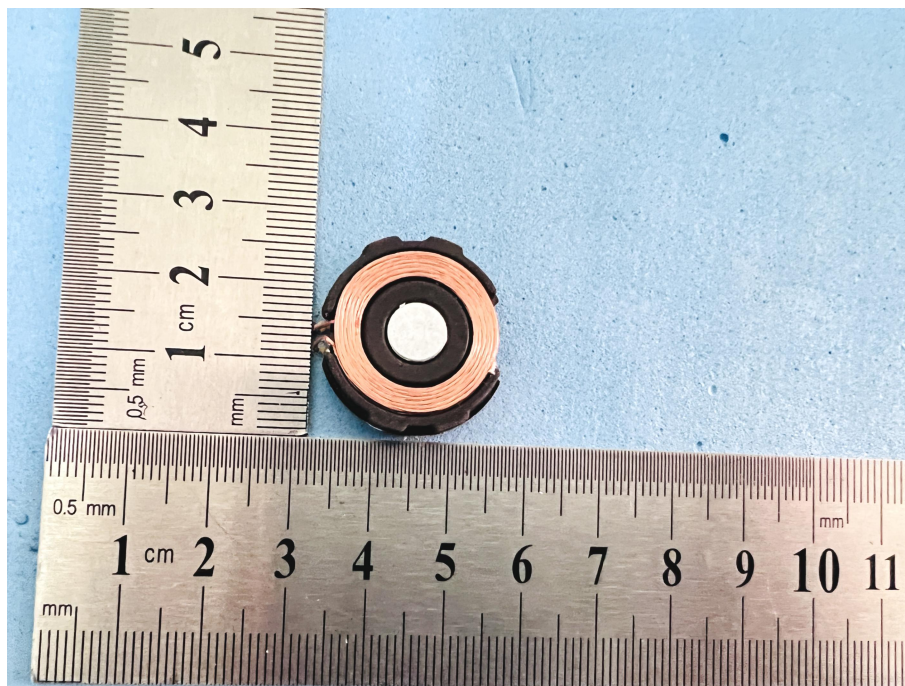
TWS ANT



Phone ANT



Watch ANT



## 8 Test Setup and EUT Photos

Please the attachment for details.

**\*\*\*\*\*THE END REPORT\*\*\*\*\***