
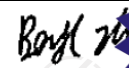

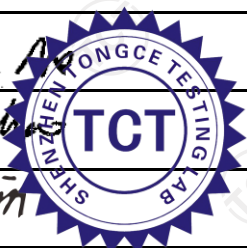


# TEST REPORT

<b>FCC ID.</b> .....	2A8CV-INV00783	
<b>Test Report No.</b> .....	TCT220815E021	
<b>Date of issue</b> .....	Sep. 21, 2022	
<b>Testing laboratory</b> .....	SHENZHEN TONGCE TESTING LAB	
<b>Testing location/ address:</b>	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
<b>Applicant's name</b> .....	IDEA SOURCE MARKETING INC.	
<b>Address</b> .....	152 Madison Ave, Suite 901, New York, New York 10016, United States	
<b>Manufacturer's name</b> ...	KINGSUN ENTERPRISES Co., Ltd.	
<b>Address</b> .....	25F, CEC information Building, Xinwen Road, Futian District, Shenzhen, Guangdong, P.R.China	
<b>Standard(s)</b> .....	FCC CFR Title 47 Part 15 Subpart C	
<b>Product Name</b> .....	WIRELESS CHARGING DUAL ALARM CLOCK	
<b>Trade Mark</b> .....	N/A	
<b>Model/Type reference</b> .....	INV00783	
<b>Rating(s)</b> .....	DC 5V	
<b>Date of receipt of test item</b> .....	Aug. 15, 2022	
<b>Date (s) of performance of test</b> .....	Aug. 15, 2022 - Sep. 21, 2022	
<b>Tested by (+signature)</b> ...	Aaron MO	
<b>Check by (+signature)</b> ....	Beryl ZHAO	
<b>Approved by (+signature)</b> :	Tomsin	



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## 1. General Product Information

### 1.1.EUT description

Product Name.....:	WIRELESS CHARGING DUAL ALARM CLOCK
Model/Type reference.....:	INV00783
Sample Number.....:	TCT220815E020-0101
Operation Frequency .....	112.18kHz - 145.19kHz
Modulation Technology .....	Load modulation
Max. Wireless Output Power:	15W
Antenna Type.....:	Inductive loop coil Antenna
Rating(s).....:	DC 5V

### 1.2.Model(s) list

None.

## 2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Spurious Emission	§15.209(a)(f)	PASS

**Note:**

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

### 3. General Information

#### 3.1. Test environment and mode

**Operating Environment:**

Condition	Conducted Emission	Radiated Emission
Temperature:	25.3 °C	25.2°C
Humidity:	56 % RH	49 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar

**Test Mode:**

AC mode	Keep the EUT in max. wireless output power(15W)
---------	---

The sample was placed 0.8m above the ground plane for the measurement from 9KHz to 30MHz in 3m chamber. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case( Z axis) are shown in Test Results of the following pages.

#### 3.2. 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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Mobile Phone	SM-G9350	R28HA2ER3GT	/	SAMSUNG
Adapter	JD-050200	2012010907576735	/	JD

**Note:**

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. Both AC mode and internal battery mode have been tested, only worse case (AC mode) is reported

## 4. Facilities and Accreditations

### 4.1. Facilities

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

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

### 4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

### 4.3. Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 3.10$ dB
2	RF power, conducted	$\pm 0.12$ dB
3	Spurious emissions, conducted	$\pm 0.11$ dB
4	All emissions, radiated(<1 GHz)	$\pm 4.56$ dB
5	All emissions, radiated(1 GHz - 18 GHz)	$\pm 4.22$ dB
6	All emissions, radiated(18 GHz- 40 GHz)	$\pm 4.36$ dB

## 5. Test Results and Measurement Data

### 5.1. Antenna requirement

**Standard requirement:**

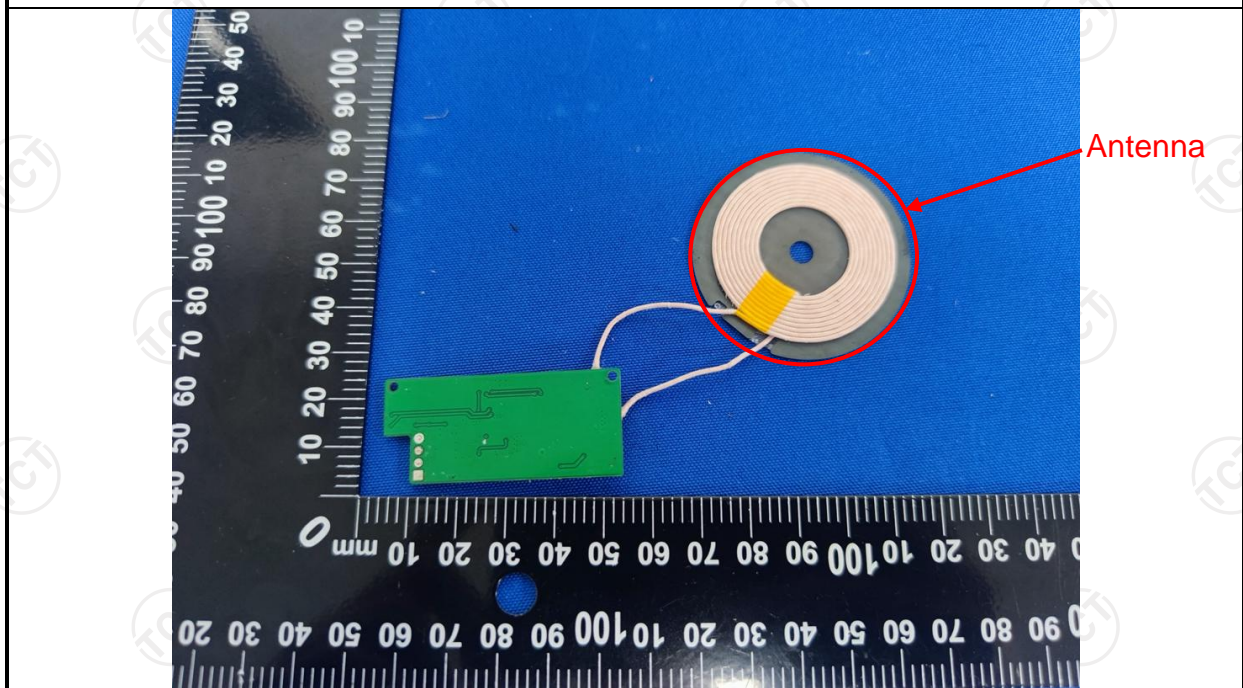
FCC Part15 C Section 15.203

**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.

**E.U.T Antenna:**

The antenna is inductive loop coil antenna which permanently attached.



## 5.2. Conducted Emission

### 5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Setup:	<div><p style="text-align: center;"><b>Reference Plane</b></p><p><i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p></div>														
Test Mode:	Transmitting Mode														
Test Procedure:	<div><div>1. The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</div><div>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</div><div>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</div></div>														
Test Result:	PASS														

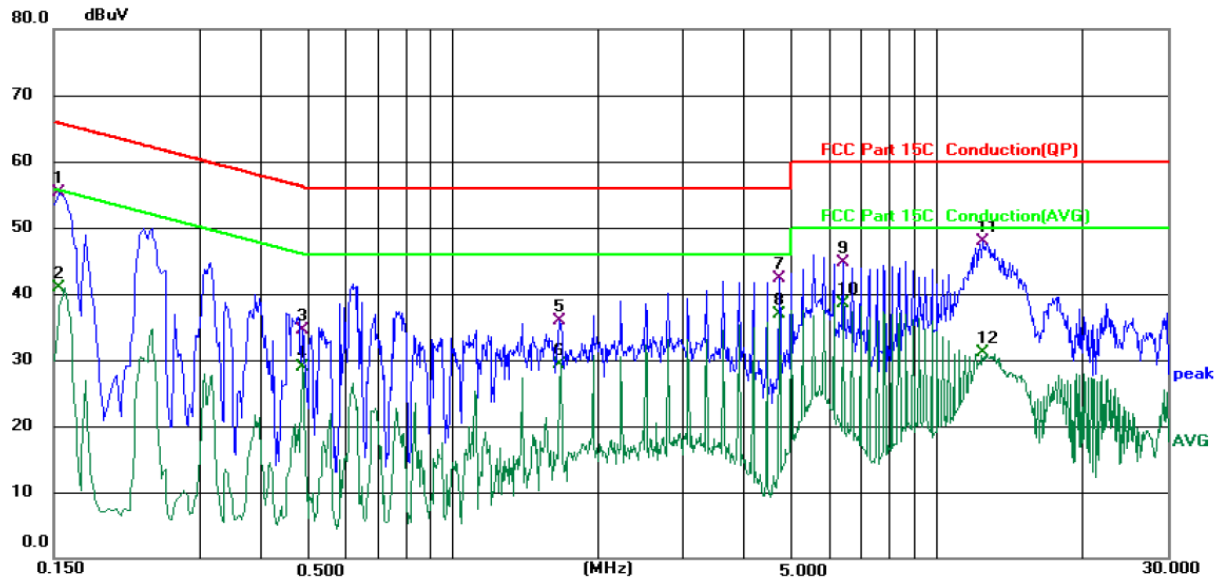
**5.2.2. Test Instruments**

Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI3	100898	Jul. 03, 2023
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Feb. 24, 2023
Line-5	TCT	CE-05	/	Jul. 03, 2023
EMI Test Software	Shurple Technology	EZ-EMC	/	/

## 5.2.3. Test data

Please refer to following diagram for individual

### Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room

Phase: L1

Temperature: 25.3 (°C)

Humidity: 56 %

Limit: FCC Part 15C Conduction(QP)

Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1539	44.77	10.53	55.30	65.79	-10.49	QP	
2		0.1539	30.36	10.53	40.89	55.79	-14.90	AVG	
3		0.4900	24.37	10.15	34.52	56.17	-21.65	QP	
4		0.4900	18.84	10.15	28.99	46.17	-17.18	AVG	
5		1.6700	25.82	10.04	35.86	56.00	-20.14	QP	
6		1.6700	19.22	10.04	29.26	46.00	-16.74	AVG	
7		4.7419	32.12	10.14	42.26	56.00	-13.74	QP	
8	*	4.7419	26.76	10.14	36.90	46.00	-9.10	AVG	
9		6.4180	34.62	10.17	44.79	60.00	-15.21	QP	
10		6.4180	28.31	10.17	38.48	50.00	-11.52	AVG	
11		12.5060	37.69	10.26	47.95	60.00	-12.05	QP	
12		12.5060	20.77	10.26	31.03	50.00	-18.97	AVG	

#### Note:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

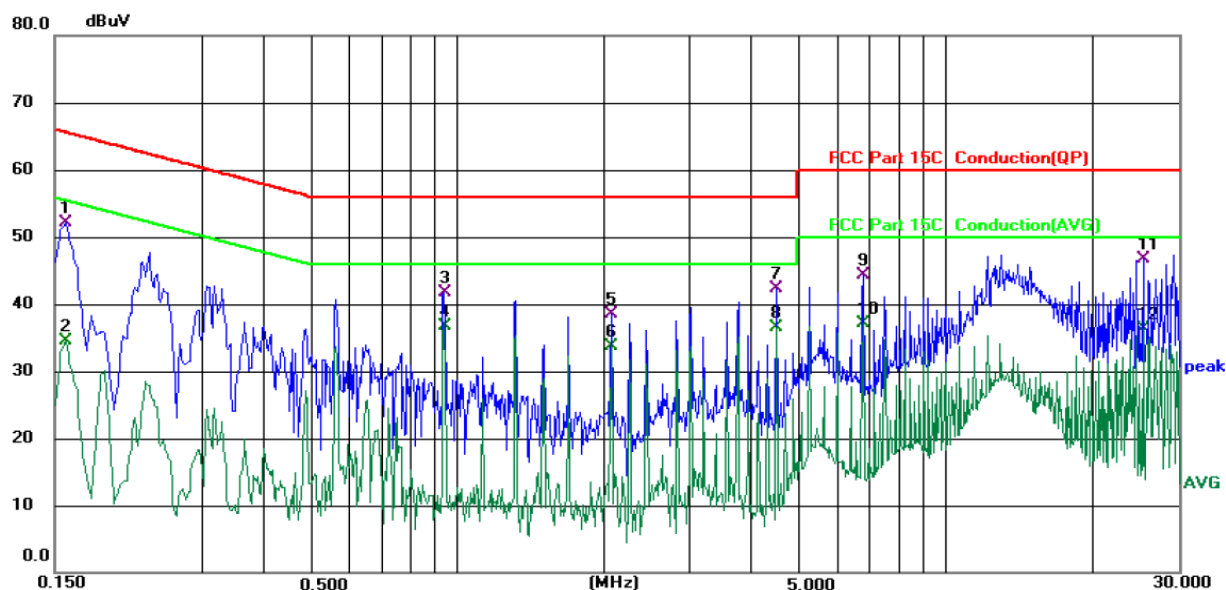
Margin (dB) = Measurement (dBuV) – Limits (dBuV)

Q.P. =Quasi-Peak

AVG =average

\* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz

## Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room

Phase: **N**

Temperature: 25.3 (°C)

Humidity: 56 %

Limit: FCC Part 15C Conduction(QP)

Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1580	41.70	10.45	52.15	65.57	-13.42	QP	
2		0.1580	24.12	10.45	34.57	55.57	-21.00	AVG	
3		0.9420	31.57	10.11	41.68	56.00	-14.32	QP	
4	*	0.9420	26.69	10.11	36.80	46.00	-9.20	AVG	
5		2.0700	28.43	10.12	38.55	56.00	-17.45	QP	
6		2.0700	23.60	10.12	33.72	46.00	-12.28	AVG	
7		4.5140	32.09	10.17	42.26	56.00	-13.74	QP	
8		4.5140	26.28	10.17	36.45	46.00	-9.55	AVG	
9		6.7700	34.09	10.25	44.34	60.00	-15.66	QP	
10		6.7700	26.94	10.25	37.19	50.00	-12.81	AVG	
11		25.3860	36.16	10.46	46.62	60.00	-13.38	QP	
12		25.3860	25.82	10.46	36.28	50.00	-13.72	AVG	

### Note:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

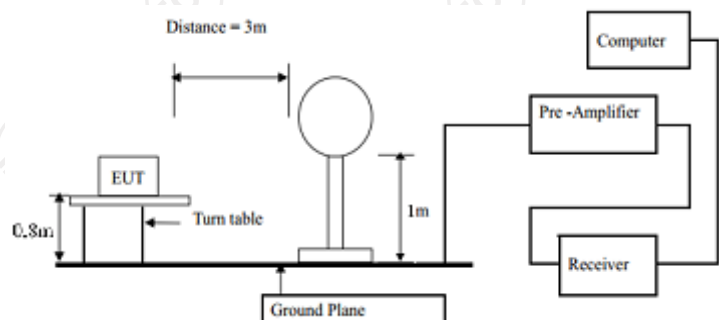
Margin (dB) = Measurement (dBuV) – Limits (dBuV)

Q.P. =Quasi-Peak AVG =average

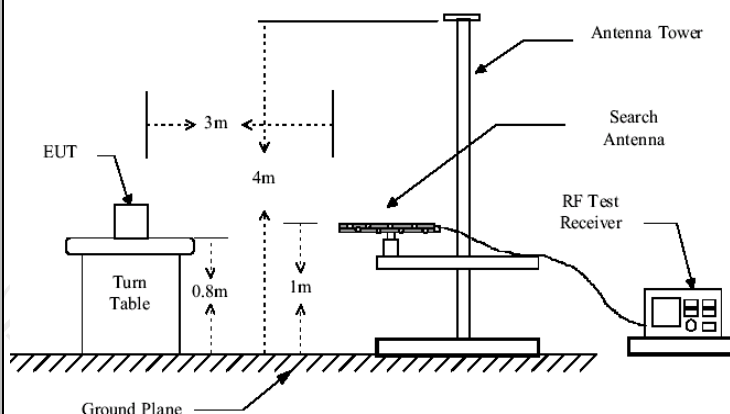
\* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

## 5.3. Radiated Spurious Emission Measurement

### 5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10: 2013				
Frequency Range:	9 kHz to 25 GHz				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal & Vertical				
Operation mode:	Refer to item 3.1				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
Limit:	Frequency		Field Strength (microvolts/meter)		Measurement Distance (meters)
	0.009-0.490		2400/F(KHz)		300
	0.490-1.705		24000/F(KHz)		30
	1.705-30		30		30
	30-88		100		3
	88-216		150		3
	216-960		200		3
	Above 960		500		3
Test setup:	For radiated emissions below 30MHz				
					
	30MHz to 1GHz				

30MHz to 1GHz



## Test Procedure:

1. For the radiated emission test below 1GHz:  
The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.  
For the radiated emission test above 1GHz:  
Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
4. Use the following spectrum analyzer settings:

	<p>(1) Span shall wide enough to fully capture the emission being measured;</p> <p>(2) Set RBW=120 kHz for <math>f &lt; 1</math> GHz; VBW <math>\geq</math> RBW; Sweep = auto; Detector function = peak; Trace = max hold;</p> <p>For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW <math>\geq 1/T</math>, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</p>
<b>Test mode:</b>	Refer to section 3.1 for details
<b>Test results:</b>	PASS

### 5.3.2. Test Instruments

Radiated Emission Test Site (966)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESIB7	100197	Jul. 03, 2023
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 03, 2023
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Feb. 24, 2023
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Feb. 24, 2023
Pre-amplifier	HP	8447D	2727A05017	Jul. 03, 2023
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 11, 2024
Broadband Antenna	Schwarzbeck	VULB9163	340	Jul. 05, 2024
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jul. 05, 2024
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Apr. 10, 2023
Antenna Mast	Keleto	RE-AM	/	/
Coaxial cable	SKET	RC-18G-N-M	/	Feb. 24, 2024
Coaxial cable	SKET	RC_40G-K-M	/	Feb. 24, 2024
EMI Test Software	Shurple Technology	EZ-EMC	/	/

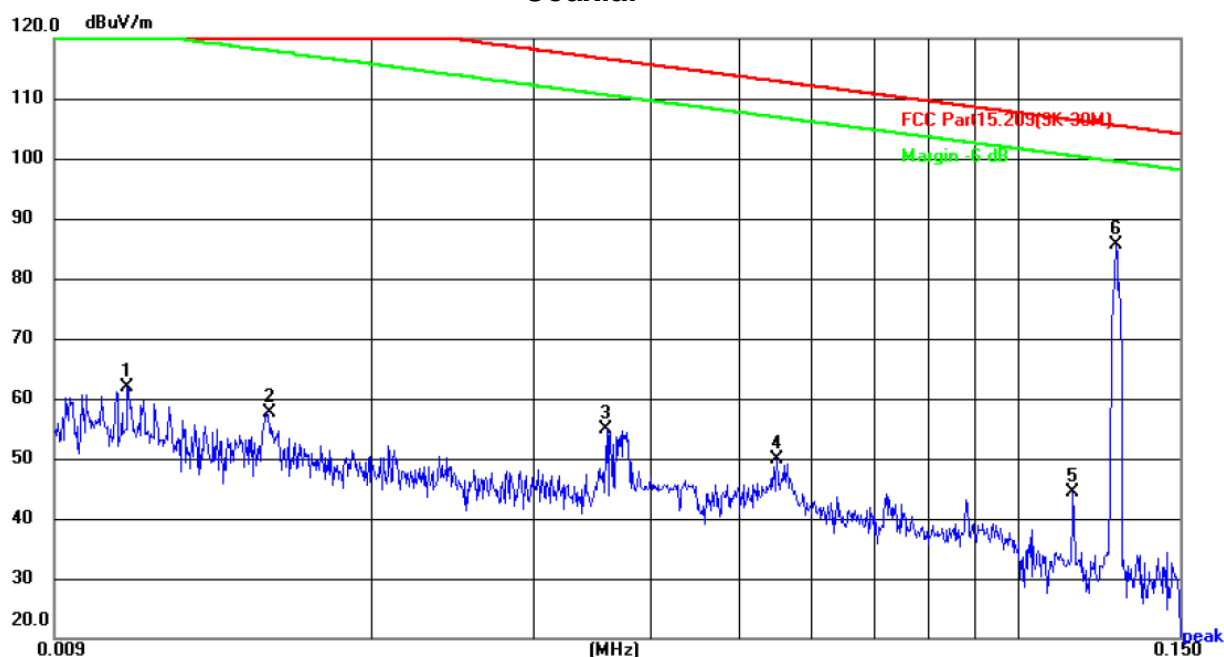
## 5.3.3. Test Data

Please refer to following diagram for individual

9KHz-30MHz

9KHz-150KHz:

Coaxial



Site

Polarization: **Coaxial**

Temperature: 25.1(°C)

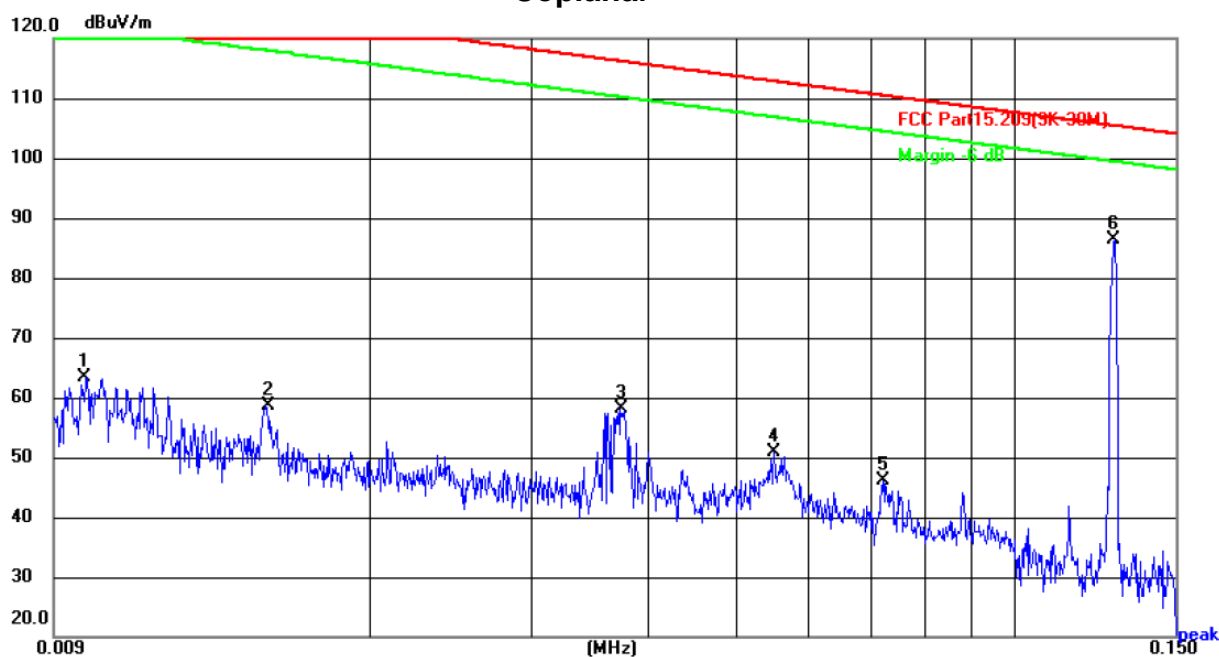
Limit: FCC Part 15.209(9K-30M)

Power: DC 5 V(Adapter Input)  
AC 120 V/60 Hz)

Humidity: 48 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.0108	41.05	20.72	61.77	126.94	-65.17	peak	P	
2	0.0152	36.89	20.67	57.56	123.97	-66.41	peak	P	
3	0.0357	34.26	20.52	54.78	116.55	-61.77	peak	P	
4	0.0548	29.21	20.72	49.93	112.83	-62.90	peak	P	
5	0.1150	23.39	20.88	44.27	106.39	-62.12	peak	P	
6 *	0.1276	65.43	20.21	85.64	105.49	-19.85	peak	P	

## Coplanar



Site

Polarization: **Conplanar**

Temperature: 25.1(°C)

Limit: FCC Part15.209(9K-30M)

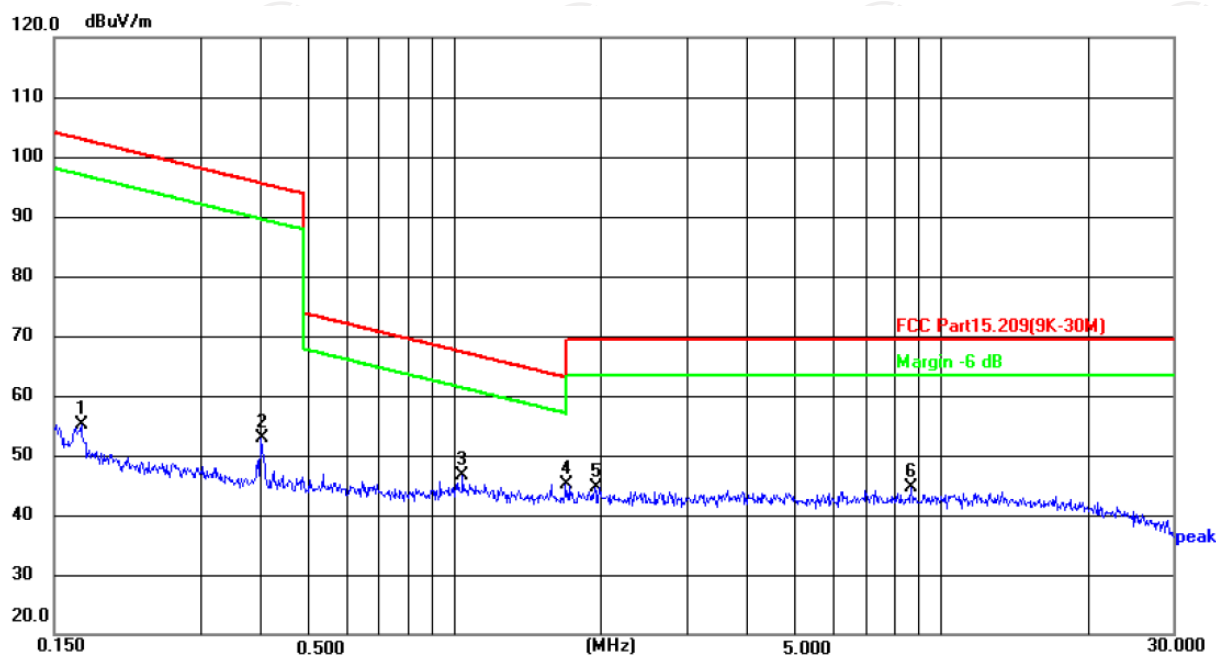
Power: DC 5 V(Adapter Input)  
AC 120 V/60 Hz)

Humidity: 48 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.0097	42.55	20.78	63.33	127.87	-64.54	peak	P	
2	0.0152	37.89	20.67	58.56	123.97	-65.41	peak	P	
3	0.0372	37.70	20.53	58.23	116.19	-57.96	peak	P	
4	0.0548	30.21	20.72	50.93	112.83	-61.90	peak	P	
5	0.0719	25.06	21.05	46.11	110.47	-64.36	peak	P	
6 *	0.1287	66.25	20.15	86.40	105.41	-19.01	peak	P	

150KHz-30MHz:

## Coaxial



Site

Polarization: **Coaxial**

Temperature: 25.1(°C)

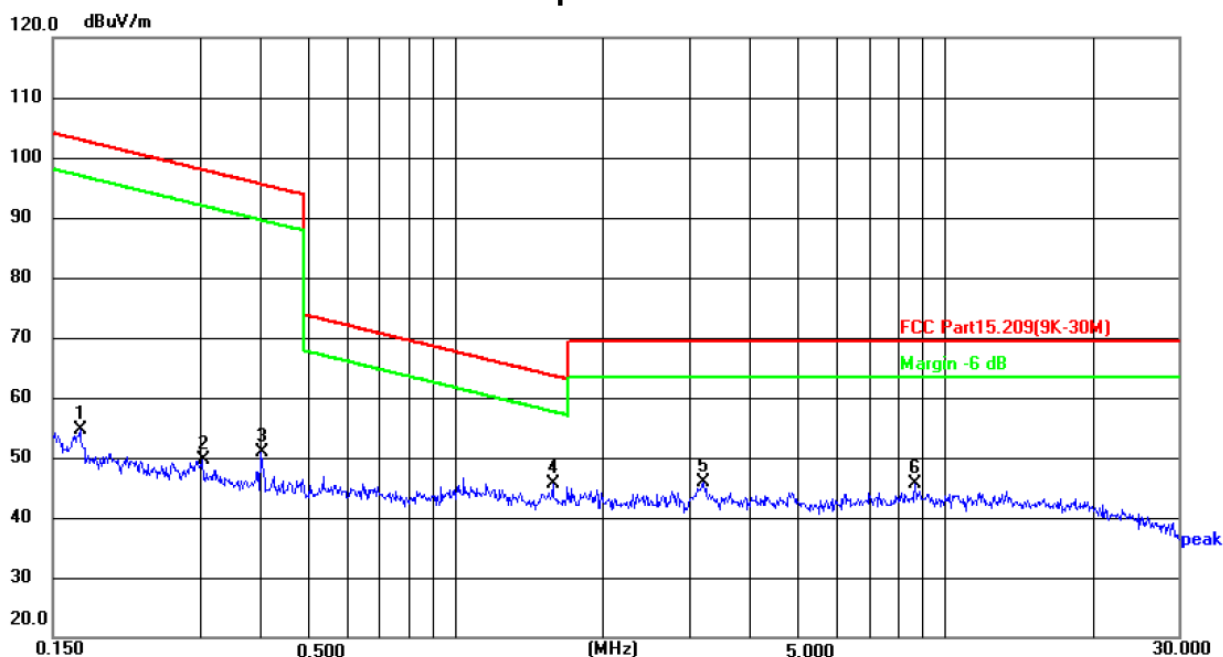
Limit: FCC Part15.209(9K-30M)

Power: DC 5 V(Adapter Input)  
AC 120 V/60 Hz)

Humidity: 48 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.1707	34.44	20.77	55.21	102.96	-47.75	peak	P	
2	0.4008	31.61	21.31	52.92	95.55	-42.63	peak	P	
3	1.0379	23.93	22.74	46.67	67.30	-20.63	peak	P	
4 *	1.6918	21.00	24.08	45.08	63.07	-17.99	peak	P	
5	1.9478	20.09	24.63	44.72	69.50	-24.78	peak	P	
6	8.7108	6.75	37.98	44.73	69.50	-24.77	peak	P	

## Coplanar



Site

Polarization: **Conplanar**

Temperature: 25.1(°C)

Limit: FCC Part15.209(9K-30M)

Power: DC 5 V(Adapter Input)  
AC 120 V/60 Hz)

Humidity: 48 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.1707	33.94	20.77	54.71	102.96	-48.25	peak	P	
2	0.3045	28.66	21.07	49.73	97.93	-48.20	peak	P	
3	0.4008	29.61	21.31	50.92	95.55	-44.63	peak	P	
4 *	1.5792	21.85	23.86	45.71	63.66	-17.95	peak	P	
5	3.2069	18.71	27.20	45.91	69.50	-23.59	peak	P	
6	8.7108	7.75	37.98	45.73	69.50	-23.77	peak	P	

## 30MHz-1GHz

Horizontal:



Site #1 3m Anechoic Chamber

Polarization: **Horizontal**

Temperature: 25.2(C)

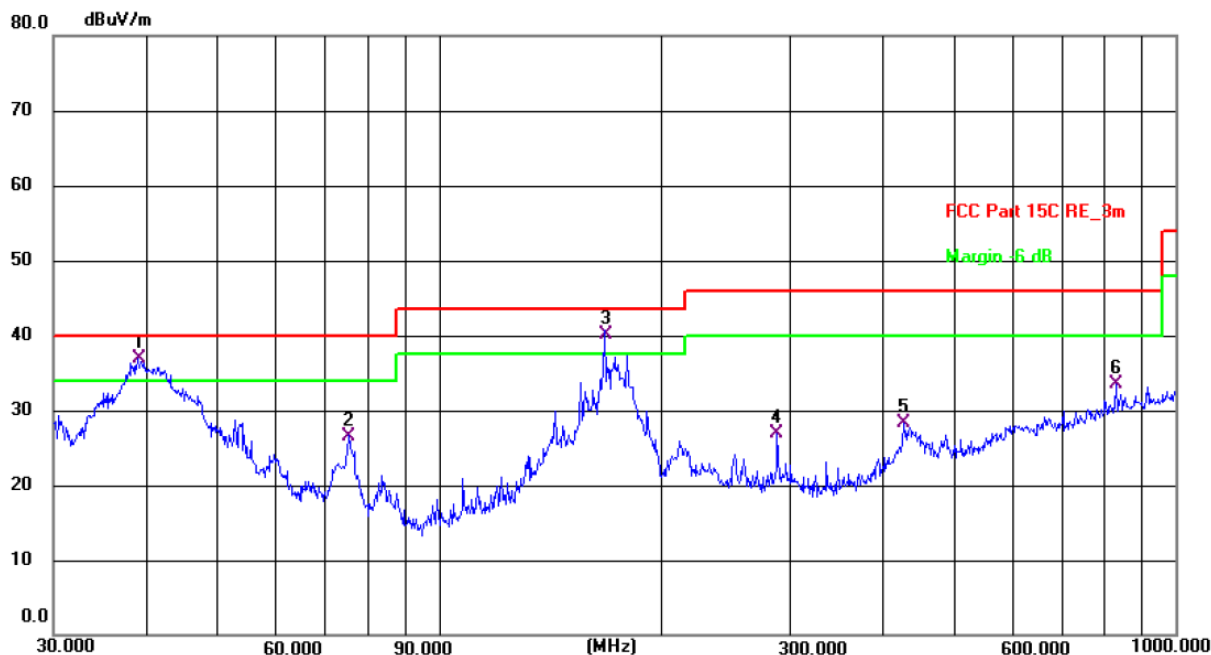
Humidity: 49 %

Limit: FCC Part 15C RE\_3m

Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	38.6160	8.56	13.59	22.15	40.00	-17.85	QP	P	
2	75.9771	11.73	9.66	21.39	40.00	-18.61	QP	P	
3	167.8240	19.90	12.62	32.52	43.50	-10.98	QP	P	
4 *	282.9852	27.93	13.14	41.07	46.00	-4.93	QP	P	
5	336.0350	20.30	14.42	34.72	46.00	-11.28	QP	P	
6	482.2155	9.22	18.06	27.28	46.00	-18.72	QP	P	

Vertical:



Site #1 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 25.2(C)

Humidity: 49 %

Limit: FCC Part 15C RE\_3m

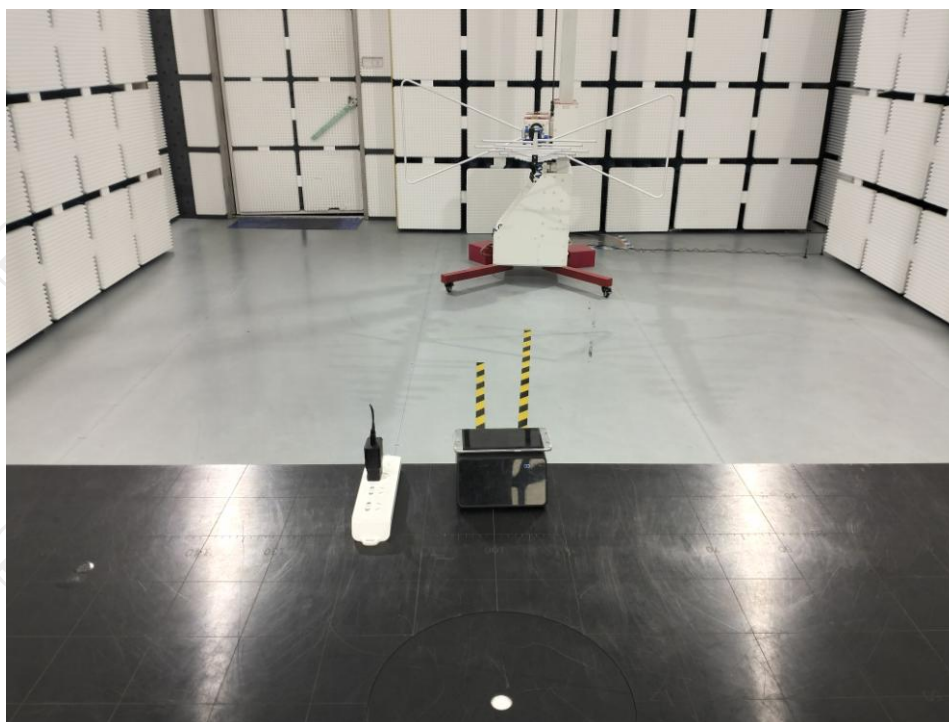
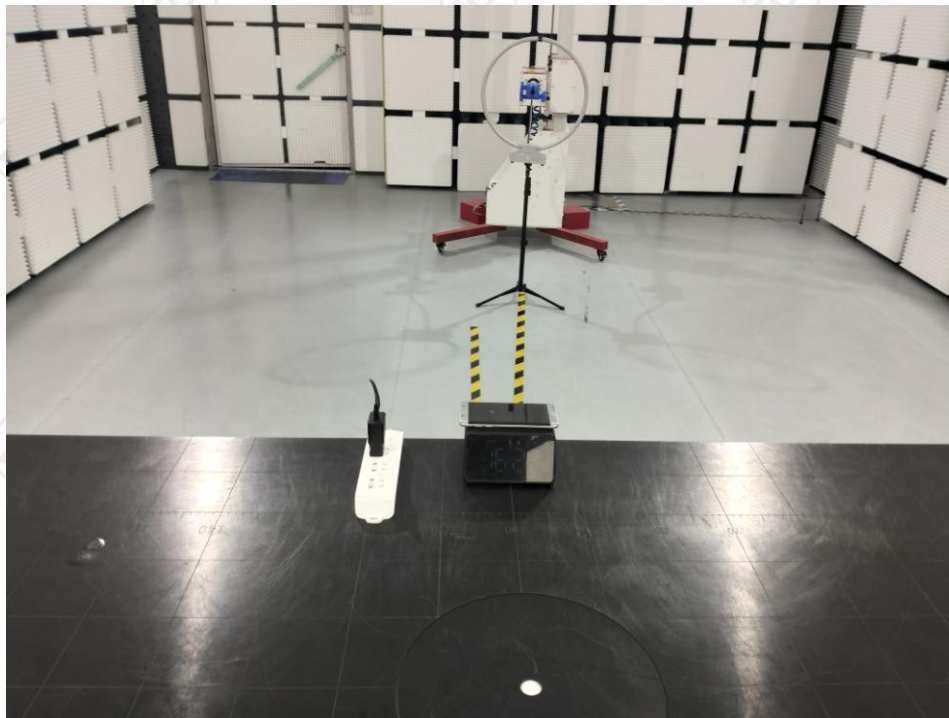
Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	39.0245	23.26	13.63	36.89	40.00	-3.11	QP	P	
2	75.4462	16.82	9.78	26.60	40.00	-13.40	QP	P	
3 !	167.8243	27.58	12.62	40.20	43.50	-3.30	QP	P	
4	287.9904	13.56	13.25	26.81	46.00	-19.19	QP	P	
5	428.0192	11.57	16.73	28.30	46.00	-17.70	QP	P	
6	830.4000	9.45	23.96	33.41	46.00	-12.59	QP	P	

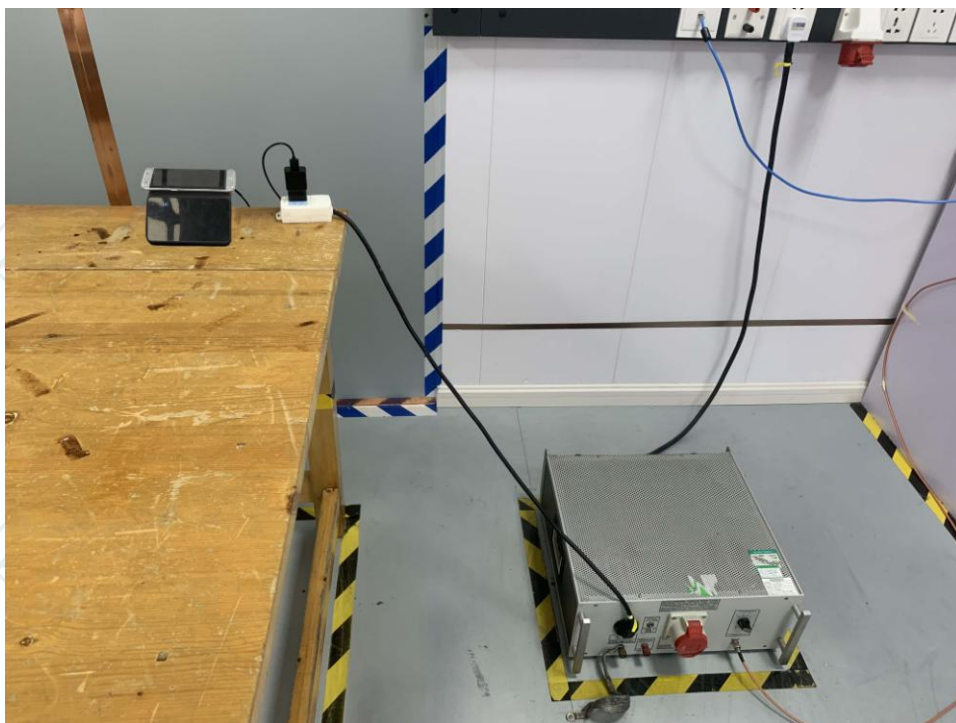
**Note:**

Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

**Appendix A: Photographs of Test Setup**  
Product: WIRELESS CHARGING DUAL ALARM CLOCK  
Model: INV00783  
Radiated Emission



Conducted Emission



## Appendix B: Photographs of EUT

Refer to the test report No. TCT220815E020

