

FCC Test Report

**Test Report
On Behalf of
AD Merchandise Limited
For
Wireless charger
Model No.: DW01**

FCC ID: 2BLKC-DW01

Prepared For: AD Merchandise Limited
Trafford House, Chester Road, Manchester, M32 0RS, United Kingdom

Prepared By: Shenzhen HUAKE Testing Technology Co., Ltd.
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Date of Test: Sept. 09, 2026 ~ Oct. 14, 2026

Date of Report: Oct. 14, 2026

Report Number: HK2609090876-1E

Test Result Certification

Applicant's Name : AD Merchandise Limited

Address : Trafford House, Chester Road, Manchester, M32 0RS, United Kingdom

Manufacturer's Name : AD Merchandise Limited

Address : Trafford House, Chester Road, Manchester, M32 0RS, United Kingdom

Product Description

Trade Mark : Range Rover

Product Name : Wireless charger

Model and/or Type Reference : DW01

Standards : FCC Rules and Regulations Part 15 Subpart C (Section 15.209), ANSI C63.10: 2020

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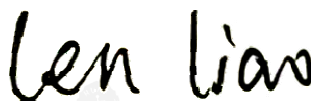
Date of Test :

Date (s) of Performance of Tests : Sept. 09, 2026 ~ Oct. 14, 2026

Date of Issue : Oct. 14, 2026

Test Result : Pass

Testing Engineer



Len Liao

Technical Manager



Sliver Wan

Authorized Signatory



Jason Zhou



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**** Issued history ****

Revision	Description	Issued Date	Remark
Revision 1.0	Initial Test Report Release	Oct. 14, 2026	Jason Zhou



1. Summary

1.1 Test Procedures and Results

Test Item	Standard Section	Result
AC Conducted Emissions Test	15.207	PASS
Radiated Emission Test	15.209	PASS
Antenna Requirement	15.203	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.

1.2 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 %.

Measurement Uncertainty

Conducted Emission Expanded Uncertainty	$\pm 2.22\text{dB}$
Radiated emission expanded uncertainty(9kHz-30MHz)	$\pm 3.60\text{dB}$
Radiated emission expanded uncertainty(30MHz-1000MHz)	$\pm 3.60\text{dB}$
Temperature	$\pm 0.1^{\circ}\text{C}$
Humidity	$\pm 1.0\%$



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2. General Information

2.1 General Description of EUT

Product Name:	Wireless charger
Model Name:	DW01
Series Model(s):	N/A
Model Difference:	N/A
Antenna Type:	Coil Antenna
Operation Frequency:	112-205kHz
Test Frequency:	123KHz (EPP), 128KHz(MPP)
Modulation Type:	ASK
Power Source:	Input: 9VDC/2A,12VDC/1.5A Wireless Output: 5W/7.5W/10W/15W (max)
Power Rating:	Input: 9VDC/2A,12VDC/1.5A Wireless Output: 5W/7.5W/10W/15W (max)
Note: 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2. Antenna gain values are provided by the customer. 3. The cable loss data is obtained from the supplier. 4. The test results in the report only apply to the tested sample.	



2.2 Carrier Frequency of Channels

Operation Frequency each of channel	
Channel	Frequency
01	123KHz (EPP)
02	128KHz(MPP)

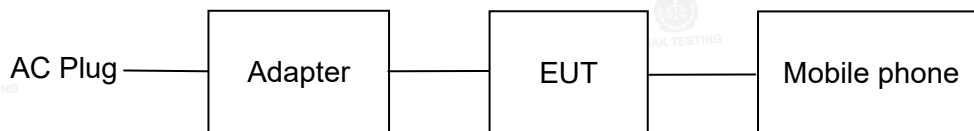
2.3 Operation of EUT during Testing

Test Item	Test mode	Description
Radiated & AC Conducted Test Cases	Mode 1	AC/DC Adapter+ EUT + Mobile Phone (Battery Status: <1%)
	Mode 2	AC/DC Adapter+ EUT + Mobile Phone (Battery Status: <50%)
	Mode 3	AC/DC Adapter+ EUT + Mobile Phone (Battery Status: >95%)
Note: 1. All modes and configurations above have been tested, Only the result of the worst case was recorded in the report. 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode. 3. The Mobile Phone provided by Lab. 4. According to the manufacturer's design principle, the wireless charging power will reach its maximum when the client device's battery level is between 1% and 10%.		



2.4 Description of Test Setup

Operation of EUT during Testing:



The sample was placed (0.8m (30MHz~1GHz), 0.8m (9KHz~30MHz)) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. 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 are shown in Test Results of the following pages. The worst case is X position.

2.5 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	Product Name	Trade Mark	Model Name	Specification	Remark
1	Wireless charger	Range Rover	DW01	N/A	EUT
2	USB Cable	N/A	N/A	Length:1.0m	Peripheral
3	Adapter	N/A	CD289	Input: AC100-240V, 50/60Hz, 2A Max USB-C1 Output: DC5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A, 28V/5A 140W MAX USB-C2 Output: DC5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A 100W MAX USB-A Output: DC5V/4.5A, 4.5V/5A, 5V/3A, 9V/2A, 12V/1.5A 22.5W MAX Total Output: 140W Max	Peripheral
4	Mobile phone	OPPO	Find X8	N/A	Peripheral

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. Wireless load (Load 1) is a device containing rechargeable batteries or capacity loads, connected via charging control circuit that receives power from a source via a coupling antenna.

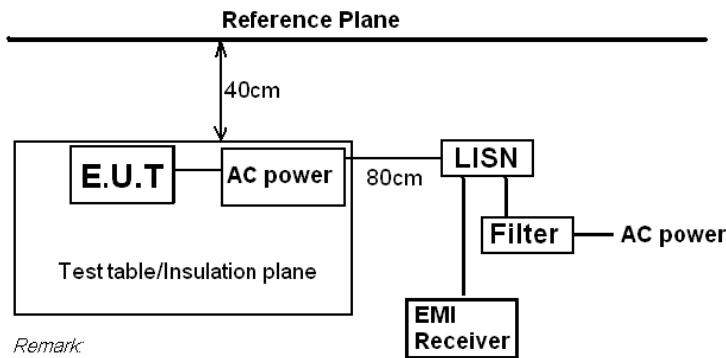


2.6 Measurement Instruments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N.	R&S	ENV216	HKE-002	2026/02/11	1 Year
2.	L.I.S.N.	R&S	ENV216	HKE-059	2026/02/04	1 Year
3.	EMI Test Receiver	R&S	ESR-7	HKE-005	2026/02/06	1 Year
4.	Spectrum analyzer	Agilent	N9020A	HKE-025	2026/02/06	1 Year
5.	Spectrum analyzer	KEYSIGHT	N9020A	HKE-117	2026/02/06	1 Year
6.	Spectrum analyzer	R&S	FSV3044	HKE-126	2026/02/06	1 Year
7.	Preamplifier	Schwarzbeck	EMC051845 SE	HKE-006	2026/02/04	1 Year
8.	Preamplifier	Agilent	83051A	HKE-016	2026/02/04	1 Year
9.	Preamplifier	QJD	QJD18-40-50	HKE-030	2026/02/05	1 Year
10.	6dB Attenuator	Pasternack	6dB	HKE-152	2026/02/06	1 Year
11.	EMI Test Receiver	R&S	ESR-7	HKE-010	2026/02/06	1 Year
12.	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	2026/02/06	2 Year
13.	Loop Antenna	COM-POWER	AL-130R	HKE-014	2026/02/06	2 Year
14.	Horn Antenna	Schwarzbeck	9120D	HKE-013	2026/02/06	2 Year
15.	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	/	/
16.	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/	/
17.	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	2026/02/04	1 Year

3. AC Conducted Emission Test

3.1 Block Diagram of Test Setup



Remark:
 E.U.T: Equipment Under Test
 LISN: Line Impedance Stabilization Network
 Test table height=0.8m

3.2 Conducted Power Line Emission Limit

According to FCC Part 15.207(a)

Frequency (MHz)	Maximum RF Line Voltage (dBμV)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207 Line Conducted Emission Limit is same as above table.

3.3 Test Procedure

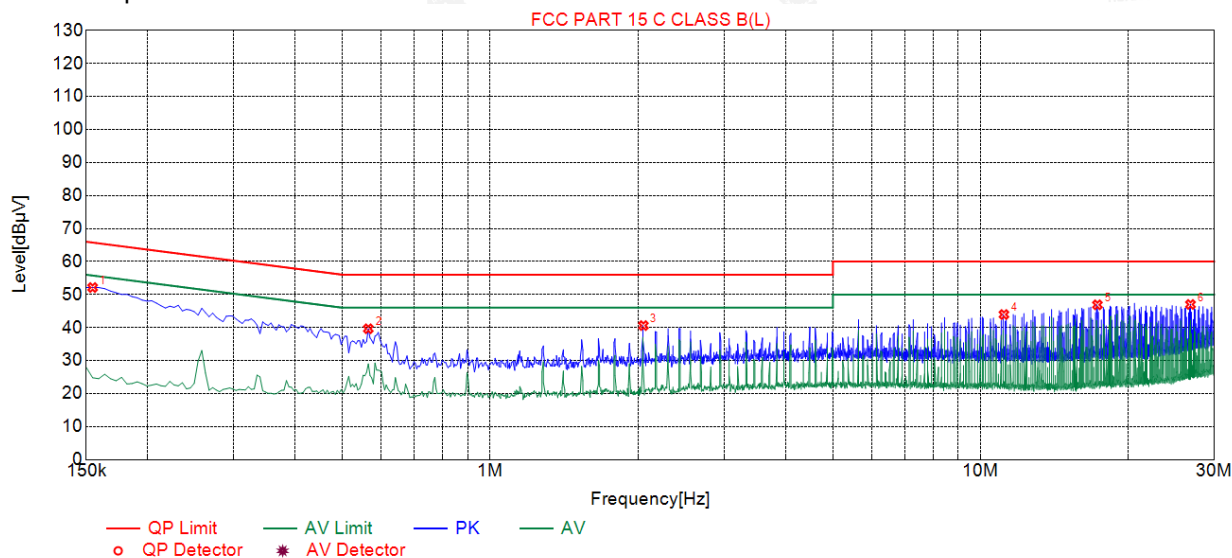
1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

3.4 Test Result

PASS

All the test modes completed for test. Only the worst result was reported as below:

Test Specification: Line



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1545	52.12	19.84	65.75	13.63	32.28	PK	L
2	0.5640	39.64	19.88	56.00	16.36	19.76	PK	L
3	2.0535	40.60	20.07	56.00	15.40	20.53	PK	L
4	11.1660	43.95	21.42	60.00	16.05	22.53	PK	L
5	17.3220	46.89	22.52	60.00	13.11	24.37	PK	L
6	26.8215	47.00	24.71	60.00	13.00	22.29	PK	L

Remark: Margin = Limit – Level

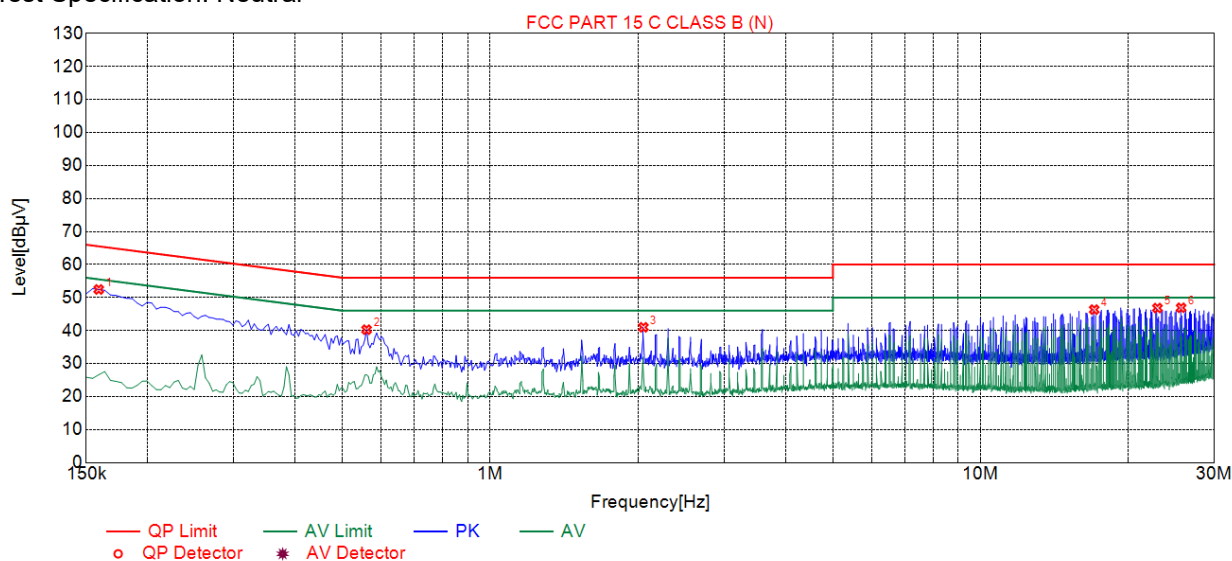
Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



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Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1590	52.45	19.91	65.52	13.07	32.54	PK	N
2	0.5595	40.26	19.95	56.00	15.74	20.31	PK	N
3	2.0535	40.98	20.17	56.00	15.02	20.81	PK	N
4	17.0655	46.34	22.41	60.00	13.66	23.93	PK	N
5	22.9605	46.82	23.72	60.00	13.18	23.10	PK	N
6	25.6650	46.90	24.32	60.00	13.10	22.58	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

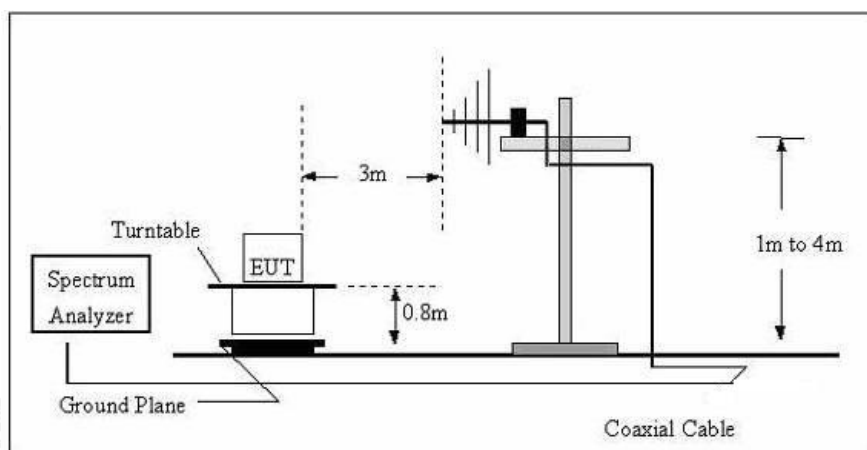
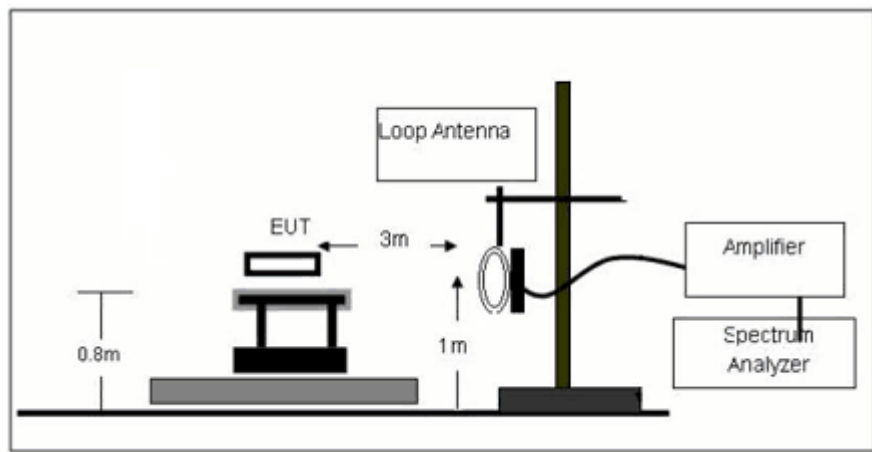
Level=Test receiver reading + correction factor



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4. Radiated Emissions

4.1 Block Diagram of Test Setup





4.2 Rules and Specifications

CFR 47 Part 15, section 15.205

Only spurious emissions are permitted in any of the frequency bands listed the tables in these sections.

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

CFR 47 Part 15, section 15.209

The emissions from an intentional radiator shall not exceed the limits in the tables in these sections using an average detector.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F (kHz)	300
0.490-1.705	24000/F (kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

Limit calculation and transfer to 3m distance as showed in the following table:

Frequency (MHz)	Limit (dBuV/m)	Distance (m)
0.009-0.490	$20\log(2400/F(KHz))+40\log(300/3)$	3
0.490-1.705	$20\log(24000/F(KHz))+40\log(30/3)$	3
1.705-30.0	69.5	3
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

CFR 47 Part 15, section 15.35

When average radiated emission measurements are specified, the limit on the peak level of the radio

Frequency emission is 20dB above the maximum permitted average emission limit.

Transmitter Spurious Emissions 9kHz-30MHz			
	9-150kHz	150-490kHz	490kHz-30MHz
Resolution			
Bandwidth	200Hz	9kHz	9kHz
Video Bandwidth	600Hz	30kHz	30kHz
Detector	Peak	Peak	Peak
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep Time	Auto	Auto	Auto

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4.3 Test Procedure

Measurement distance 3m

For the measurement range up to 30MHz in the following plots the field strength result from 3m
Distance measurements are extrapolated to 300m and 30m distance respectively, by 40dB/decade, Per antenna factor scaling.

Measurements below 1000MHz are performed with a peak detector and compared to average limits;
Measurements with an average detector are not required.



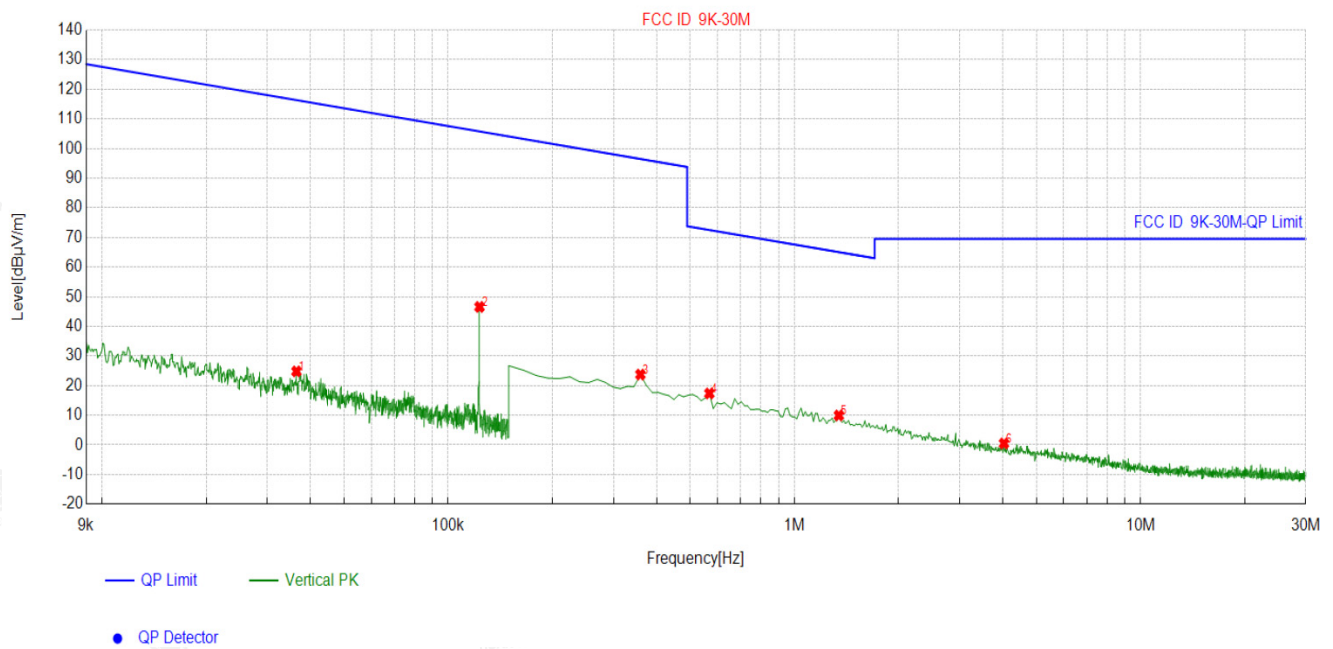
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4.4 Test Result

PASS

Note: All the test modes completed for test. Only the worst result was reported as below:

For 9KHz - 30MHz
EPP 15W 123KHz



Suspected List

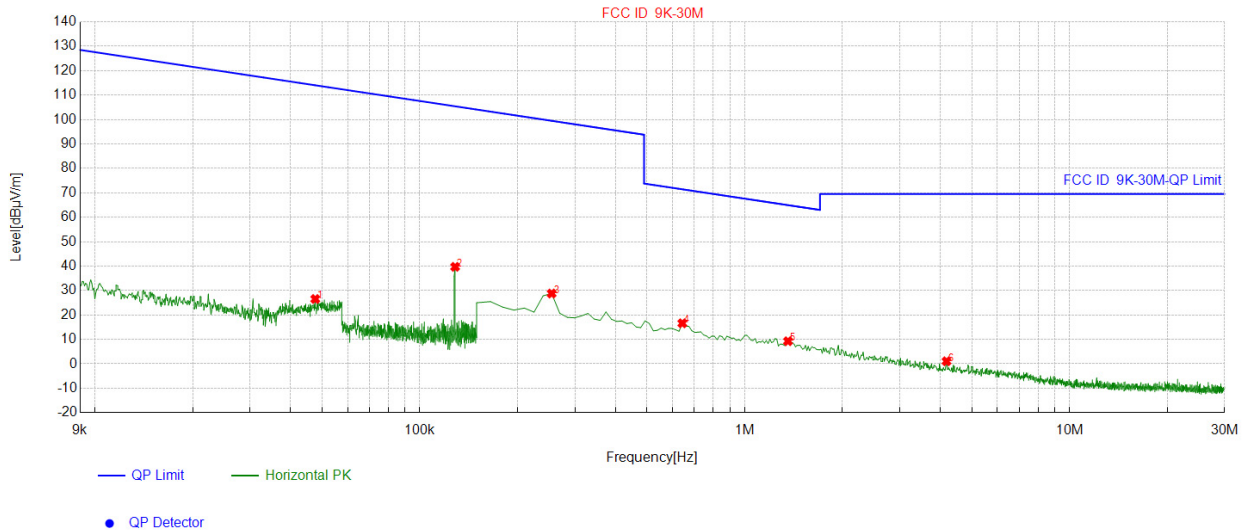
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]
1	0.036	-16.58	41.39	24.81	116.36	91.55
2	0.123	-17.30	63.86	46.56	105.79	59.23
3	0.359	-17.70	41.44	23.74	96.50	72.76
4	0.568	-17.47	34.83	17.36	72.52	55.16
5	1.345	-16.59	26.54	9.95	65.06	55.11
6	4.032	-16.89	17.38	0.49	69.50	69.01

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

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Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

For 9KHz - 30MHz
MPP 7.5W 128KHZ



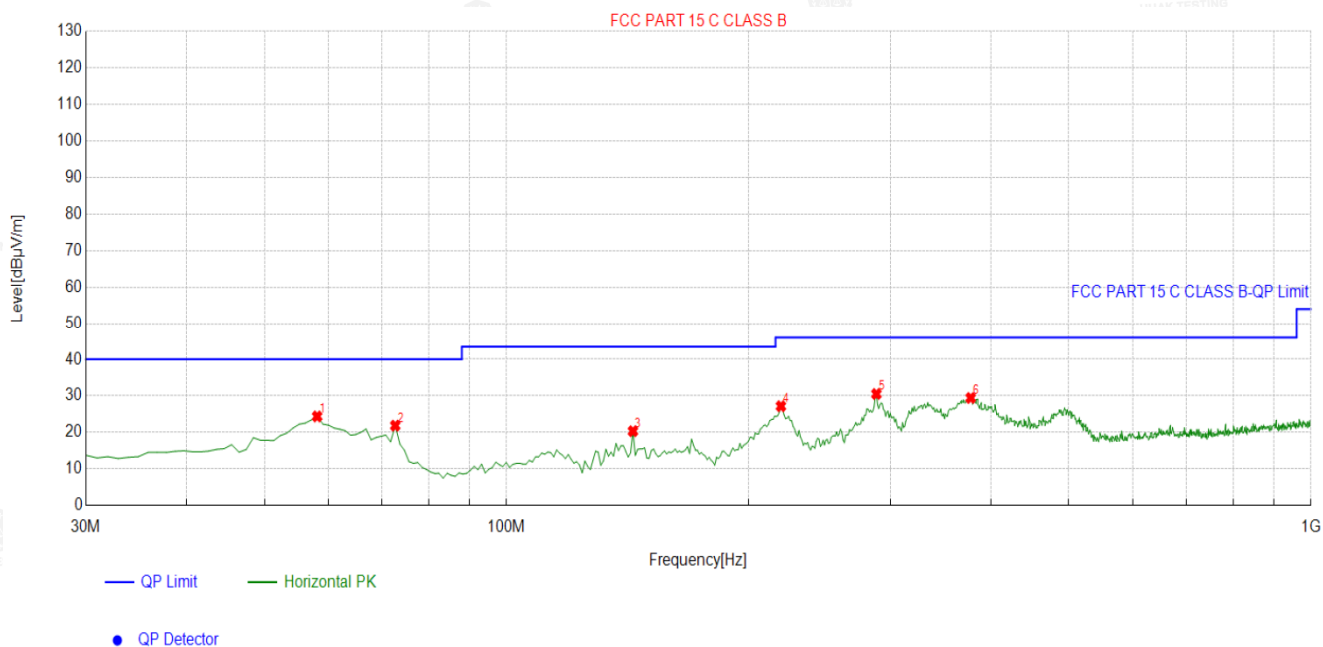
Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]
1	0.048	-16.85	43.38	26.53	114.03	87.50
2	0.128	-17.25	56.95	39.70	105.43	65.73
3	0.255	-18.02	46.81	28.79	99.49	70.70
4	0.643	-17.44	34.04	16.60	71.45	54.85
5	1.360	-16.58	25.85	9.27	64.96	55.69
6	4.182	-16.87	17.91	1.04	69.50	68.46

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

For 30MHz-1GHz
EPP 15W 123KHz

Antenna polarity: Horizontal

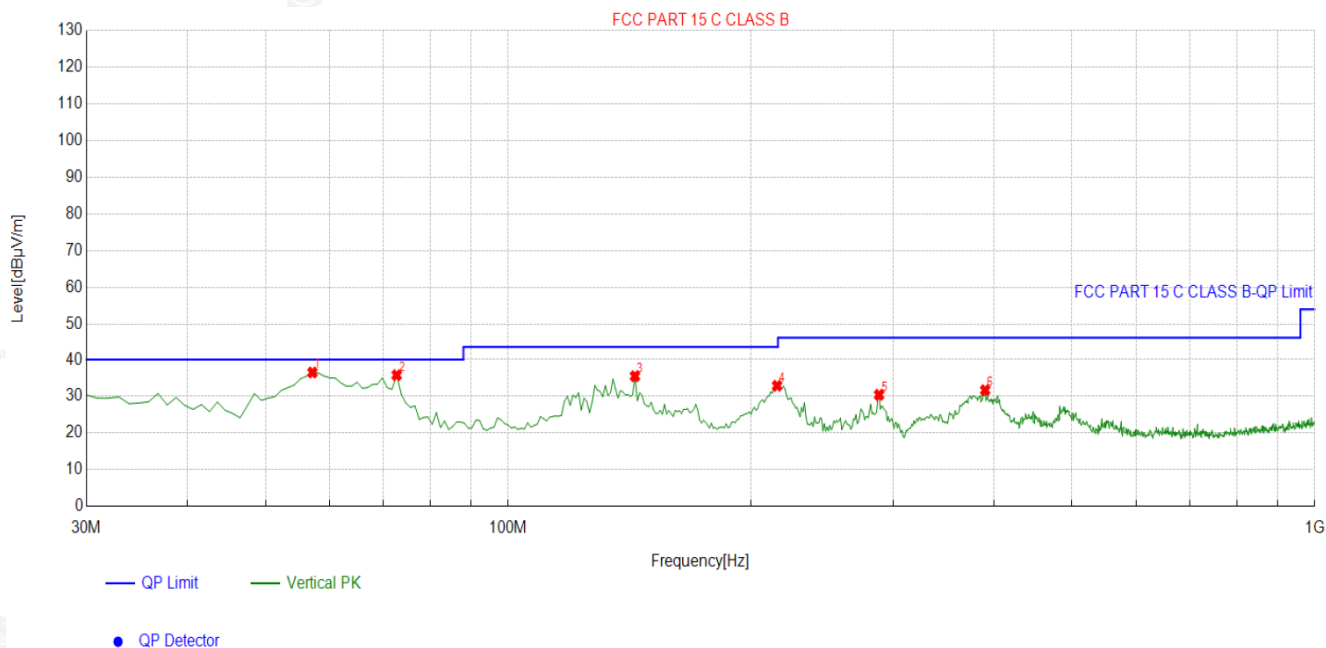


Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	58.158	-12.89	37.27	24.38	40.00	15.62	100	181	Horizontal
2	72.723	-17.35	39.22	21.87	40.00	18.13	100	195	Horizontal
3	143.604	-18.40	38.75	20.35	43.50	23.15	100	72	Horizontal
4	219.339	-14.37	41.55	27.18	46.00	18.82	100	103	Horizontal
5	288.278	-12.49	43.02	30.53	46.00	15.47	100	82	Horizontal
6	377.608	-10.38	39.82	29.44	46.00	16.56	100	272	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Antenna polarity: Vertical

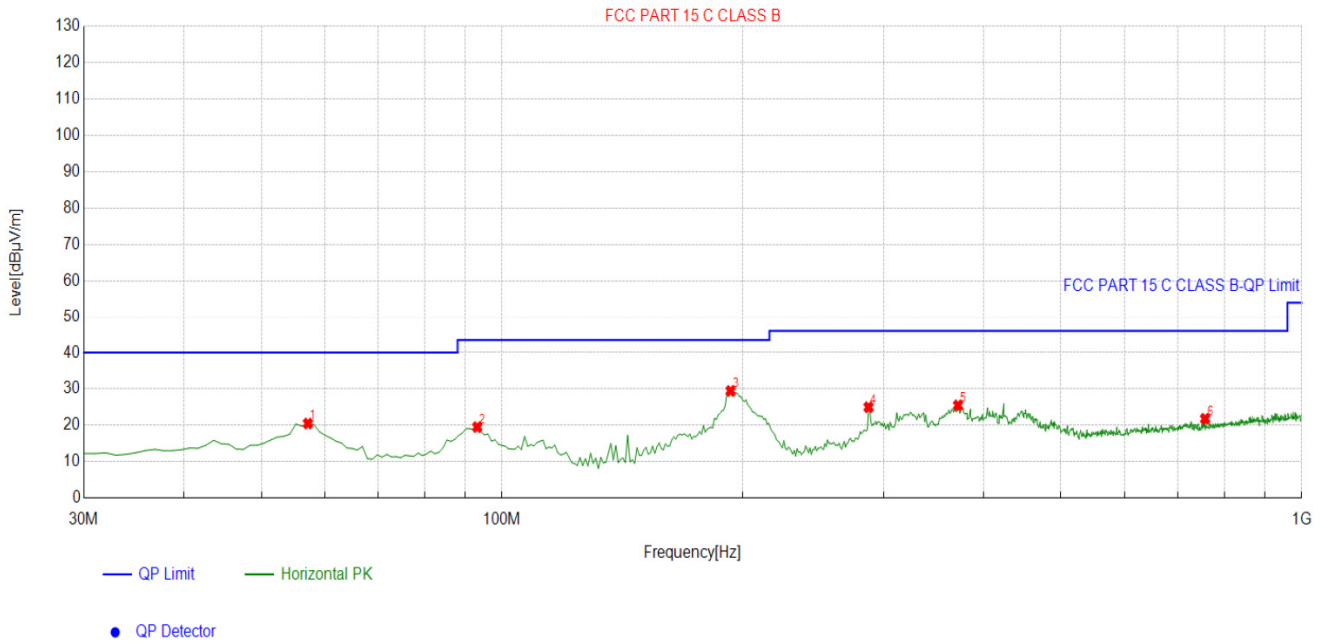


Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	57.187	-12.68	49.18	36.50	40.00	3.50	100	249	Vertical
2	72.723	-17.35	53.14	35.79	40.00	4.21	100	182	Vertical
3	143.604	-18.40	53.90	35.50	43.50	8.00	100	76	Vertical
4	215.455	-14.53	47.42	32.89	43.50	10.61	100	136	Vertical
5	288.278	-12.49	42.90	30.41	46.00	15.59	100	185	Vertical
6	390.230	-10.10	41.79	31.69	46.00	14.31	100	217	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

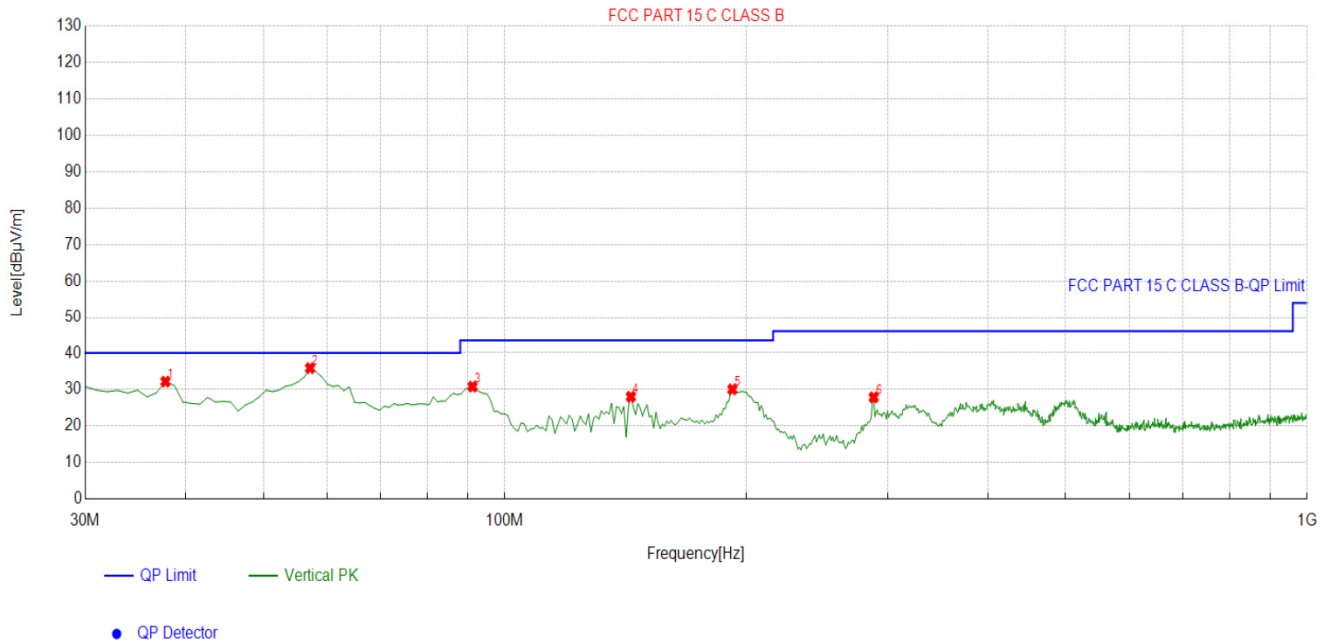
For 30MHz-1GHz
EPP 7.5W 128KHz
Antenna polarity: Horizontal



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	57.187	-12.68	33.21	20.53	40.00	19.47	100	223	Horizontal
2	93.113	-15.69	35.24	19.55	43.50	23.95	100	341	Horizontal
3	193.123	-15.22	44.69	29.47	43.50	14.03	100	52	Horizontal
4	287.307	-12.51	37.52	25.01	46.00	20.99	100	270	Horizontal
5	371.782	-10.50	36.02	25.52	46.00	20.48	100	95	Horizontal
6	757.257	-3.70	25.53	21.83	46.00	24.17	100	241	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Antenna polarity: Vertical



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.768	-12.95	45.14	32.19	40.00	7.81	100	16	Vertical
2	57.187	-12.68	48.56	35.88	40.00	4.12	100	180	Vertical
3	91.171	-15.86	46.67	30.81	43.50	12.69	100	162	Vertical
4	143.604	-18.40	46.44	28.04	43.50	15.46	100	13	Vertical
5	192.152	-15.31	45.38	30.07	43.50	13.43	100	16	Vertical
6	288.278	-12.49	40.36	27.87	46.00	18.13	100	71	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

5. Antenna Requirement

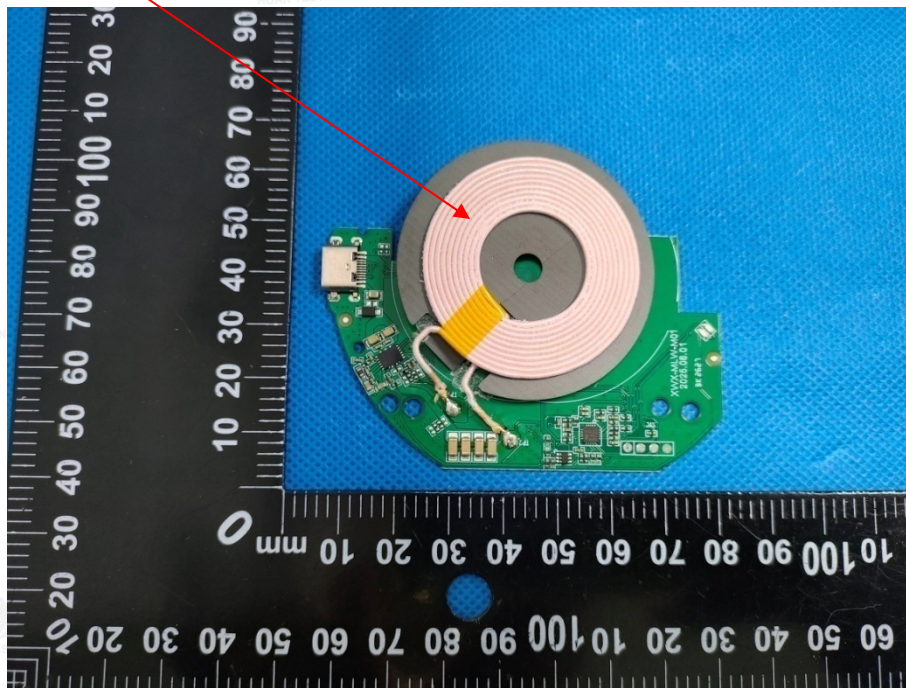
Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a Coil Antenna, which permanently attached. It conforms to the standard requirements.

Antenna

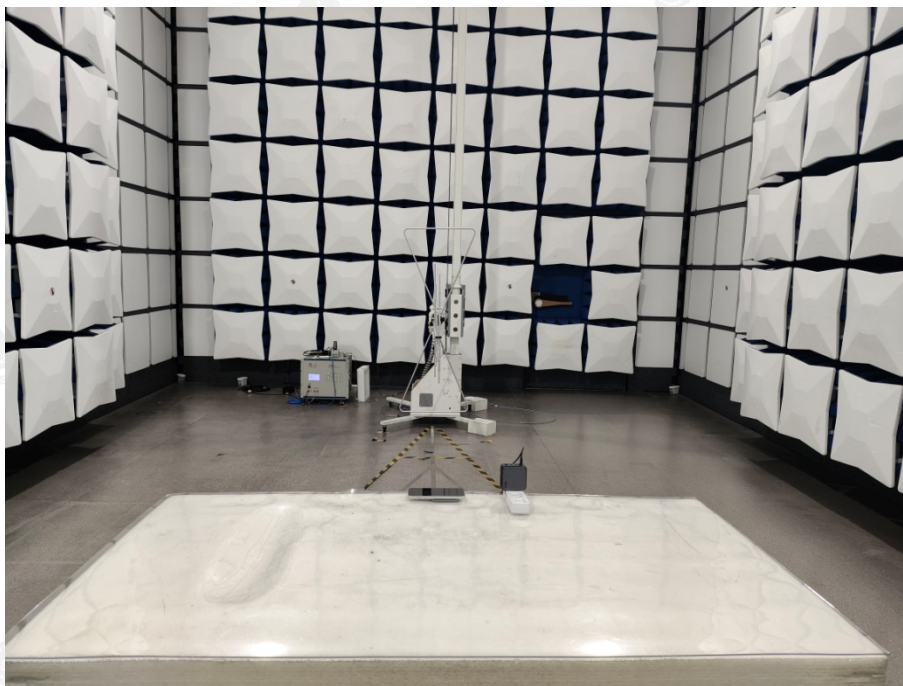
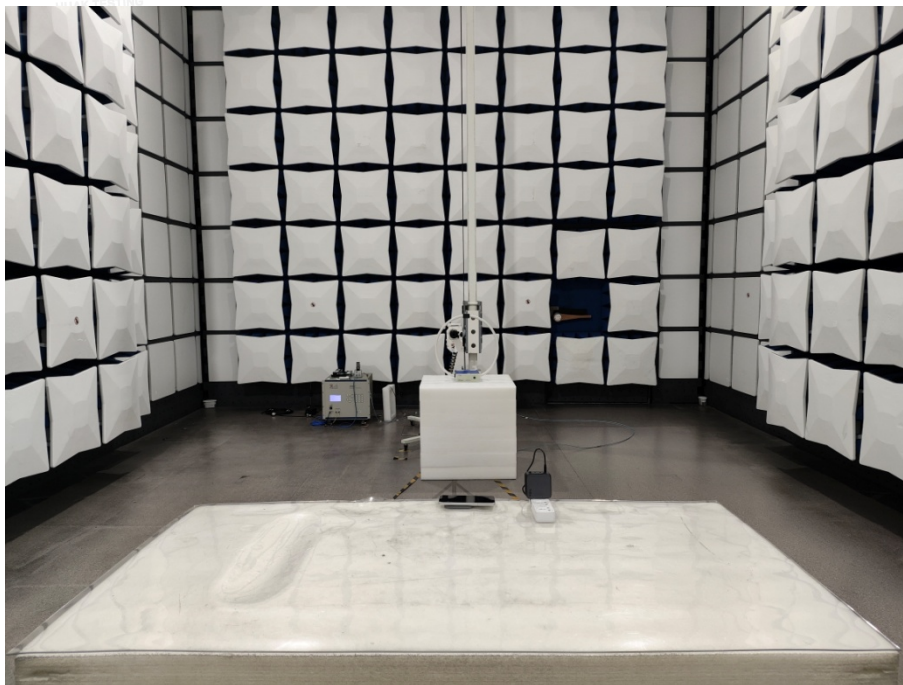




HUAKE TESTING

6. Test Setup Photos of the EUT

Radiated Emission



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

AC Conducted Emission





HUAKE TESTING

7. Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

-----End of test report-----