FCC 47 CFR Part 15 Subpart B

TEST REPORT

For

Stainless Steel Deodorizing Cat Litter Box

MODEL NUMBER: SH2808/SH2808A/SH2808B/SH2808C

REPORT NUMBER: E04A24011397F00101

ISSUE DATE: Feb. 29, 2024

Prepared for

Shenghui ElectronicTechnology (Guangdong) Co., Ltd.
Floor 2, Building B, No.50Shengye Road, Shebei Village,Huangjiang Town,Dongguan City,Guangdong Province

Prepared by

Guangdong Global Testing Technology Co., Ltd.

Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	Feb. 29, 2024	Initial Issue	

Summary of Test Results

Emission			
Standard	**Test Item**	**Limit**	**Result**
FCC 47 CFR Part 15 Subpart B	Conducted emissions	FCC Part 15.107	Pass
	Radiated emissions below 1GHz	FCC Part 15.109	Pass

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.
*The measurement result for the sample received is <Pass> according to <FCC 47 CFR Part 15 Subpart B> when <Accuracy Method> decision rule is applied.

CONTENTS

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	Shenghui ElectronicTechnology (Guangdong) Co., Ltd.
Address:	Floor 2, Building B, No.50Shengye Road, Shebei Village,Huangjiang Town,Dongguan City,Guangdong Province

Manufacturer Information

Company Name:	Shenghui ElectronicTechnology (Guangdong) Co., Ltd.
Address:	Floor 2, Building B, No.50Shengye Road, Shebei Village,Huangjiang Town,Dongguan City,Guangdong Province

Factory Information

Company Name:	Shenghui ElectronicTechnology (Guangdong) Co., Ltd.
Address:	Floor 2, Building B, No.50Shengye Road, Shebei Village,Huangjiang Town,Dongguan City,Guangdong Province

EUT Information

Product Description:	Stainless Steel Deodorizing Cat Litter Box
Model:	SH2808
Series Model:	SH2808A/SH2808B/SH2808C
Sample Received Date:	Feb. 26, 2024
Sample Status:	Normal
Sample ID:	A24011397 001
Date of Tested:	Feb. 26, 2024 to Feb. 28, 2024

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC 47 CFR Part 15 Subpart B	**Pass**

Prepared By:

Jansen Lin

Project Engineer

Checked By:

Alan He

Laboratory Leader

Approved By:

Shawn Wen

Laboratory Manager

2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC 47 CFR Part 15 Subpart B

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	**A2LA (Certificate No.: 6947.01)** Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA. **FCC (FCC Designation No.: CN1343)** Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules **ISED (Company No.: 30714)** Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.

Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Measurement Frequency Range	K	U(dB)
Conducted emissions	0.009 MHz - 30 MHz	2	3.37
Radiated emissions below 1GHz	30 MHz -1 GHz	2	3.79
Note1: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.			

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name		Stainless Steel Deodorizing Cat Litter Box
Model		SH2808
Series Model		SH2808A/SH2808B/SH2808C
Model Difference		Note: The additional models SH2808A,SH2808B,SH2808C are identical with the test model SH2808 except the model number for marketing purpose.
Adapter1# Information		MODEL:M050100-A005US INPUT: 100-240V~ 50/60Hz 0.5A OUTPUT:5.0V⎓1.0A 5.0W
Adapter2# Information		Model:TPA-147C050100UU01 Input: 100-240V~ 50/60Hz 0.2A Output:5.0V⎓1.0A
EUT Classification		Class B
Ratings		Input:100-240V~ 50/60Hz Output:DC 5V/1A
Power Supply	AC	120V/60Hz

5.2. TEST MODE

Test Mode	Description
M01	Operating(Maximum speed)

5.3. SUPPORT UNITS FOR SYSTEM TEST

The EUT has been tested as an independent unit

6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted emissions					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Last Cal.**	**Due Date**
Shielding Room 1	CHENG YU	8*5*4	N/A	2022/10/29	2025/10/28
LISN	R&S	ENV216	102843	2023/9/18	2024/9/17
EMI Test Receiver	R&S	ESR3	102647	2023/9/18	2024/9/17
LISN	Schwarzbeck	NNLK 8129 RC	5046	2023/9/18	2024/9/17
8-Wire ISN CAT6	Schwarzbeck	NTFM 8158	#237	2023/9/18	2024/9/17
CURRENT PROBE	R&S	EZ-17	101602	2023/9/18	2024/9/17
EZ-EMC	Farad	Ver/EMC-con-3A1 1+	N/A	N/A	N/A

Test Equipment of Radiated emissions below 1GHz					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Last Cal.**	**Due Date**
Chamber	ETS	9*6*6	Q2146	2022/8/30	2025/8/29
Receiver	R&S	ESCI3	101409	2023/9/18	2024/9/17
Loop Antenna	ETS	6502	243668	2022/3/30	2025/3/30
Pre-Amplifier	HzEMC	HPA-9K0130	HYPA21001	2023/9/18	2024/9/17
Biconilog Antenna	Schwarzbeck	VULB 9168	1315	2022/10/10	2025/10/9
Biconilog Antenna	ETS	3142E	243646	2022/3/23	2025/3/22
EZ-EMC	Farad	Ver/FA-03A2 RE+	N/A	N/A	N/A

7. EMISSION TEST

7.1. CONDUCTED EMISSIONS

LIMITS

CFR 47 FCC Part15 Subpart B				
FREQUENCY (MHz)	Class A (dBμV)		Class B (dBμV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46*
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

TEST PROCEDURE

1. The testing follows the guidelines in ANSI C63.4-2014.

2. The EUT was placed on the top of a rotating table 0.8 meters above the horizontal ground plane and being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

3. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

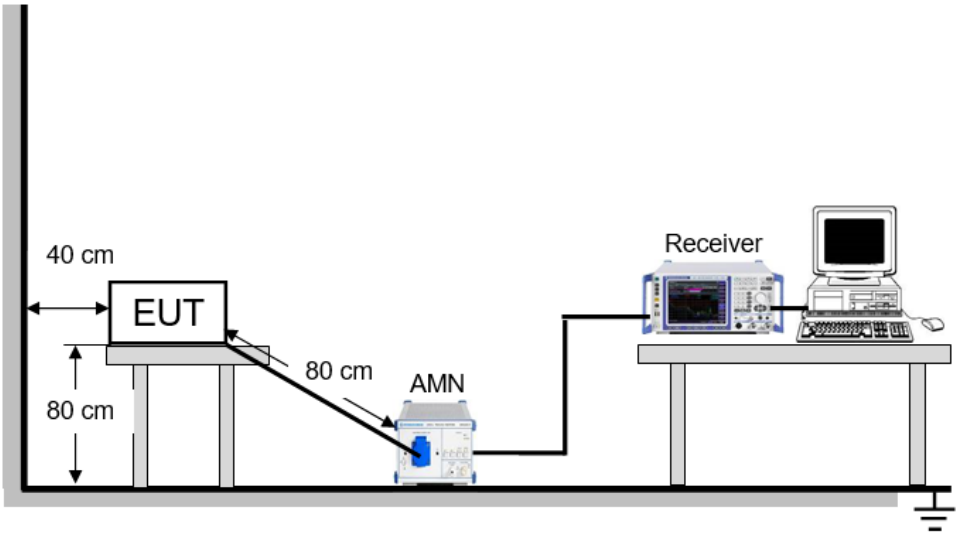
4. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

5. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.

6. LISN at least 80 cm from nearest part of EUT chassis.

7. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

TEST SETUP



TEST ENVIRONMENT

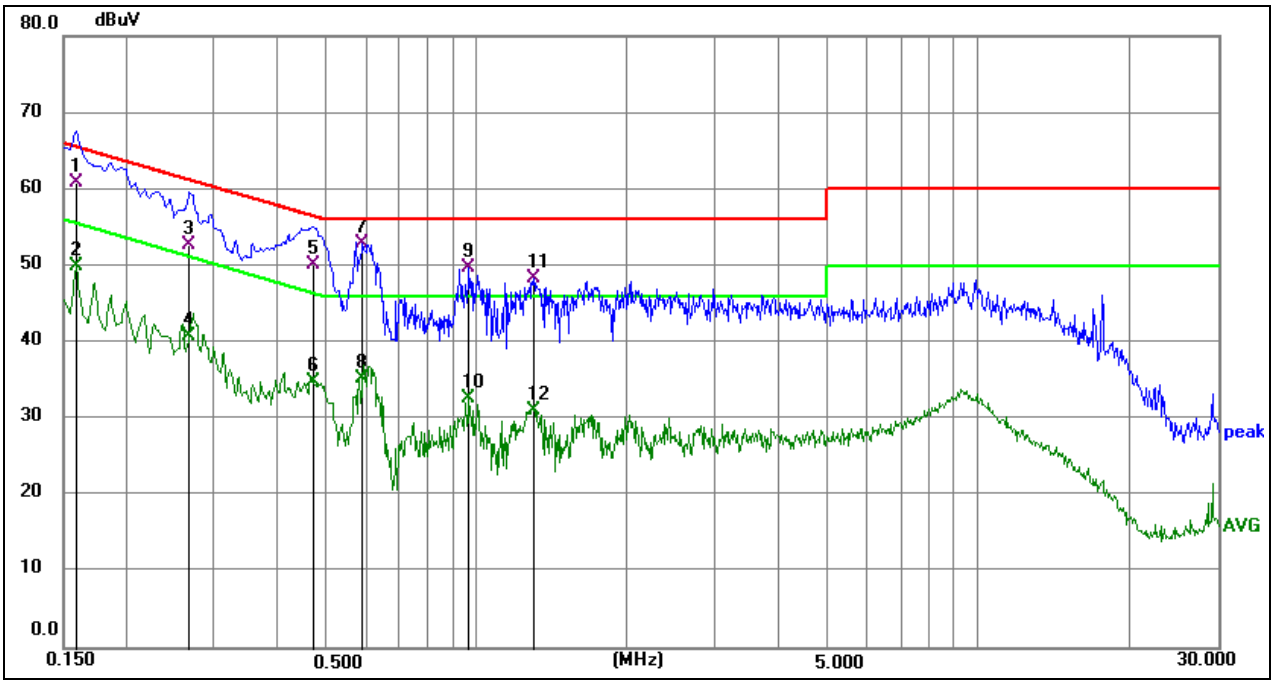
Temperature	21.1℃	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST MODE

Pre-test Mode:	M01 ~ M01
Final Test Mode:	M01

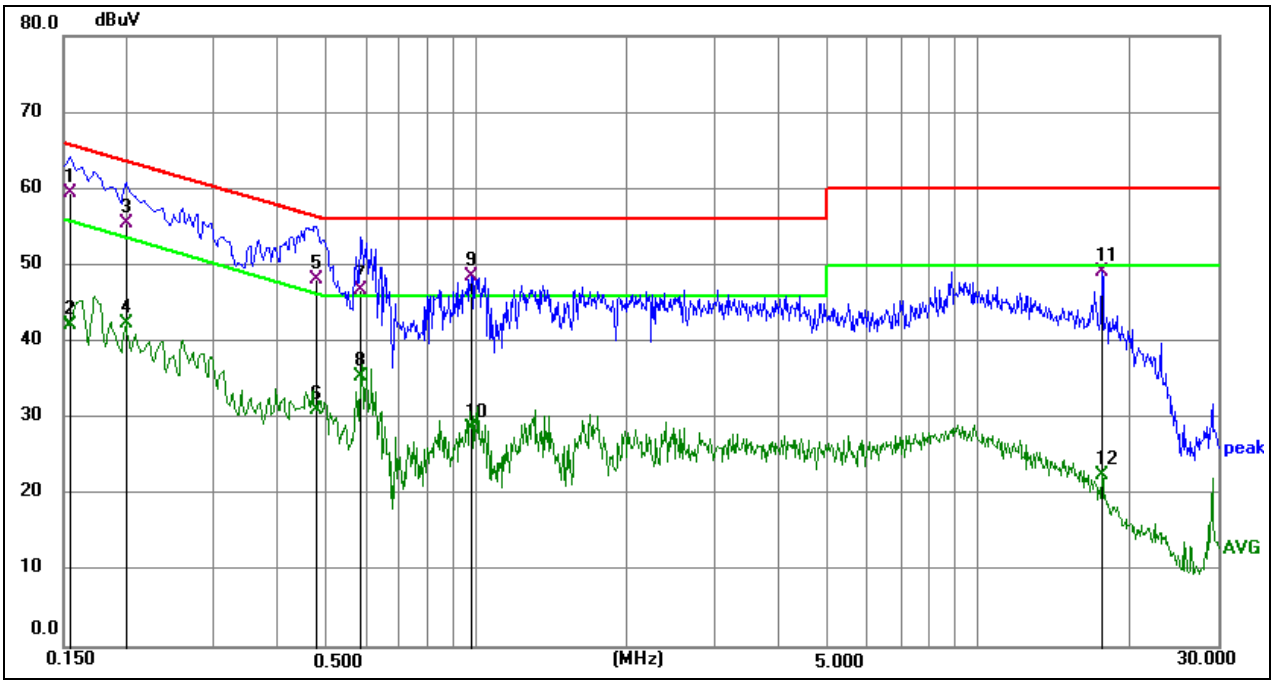
Note: All test modes had been tested, but only the worst data recorded in the report.

TEST RESULTS



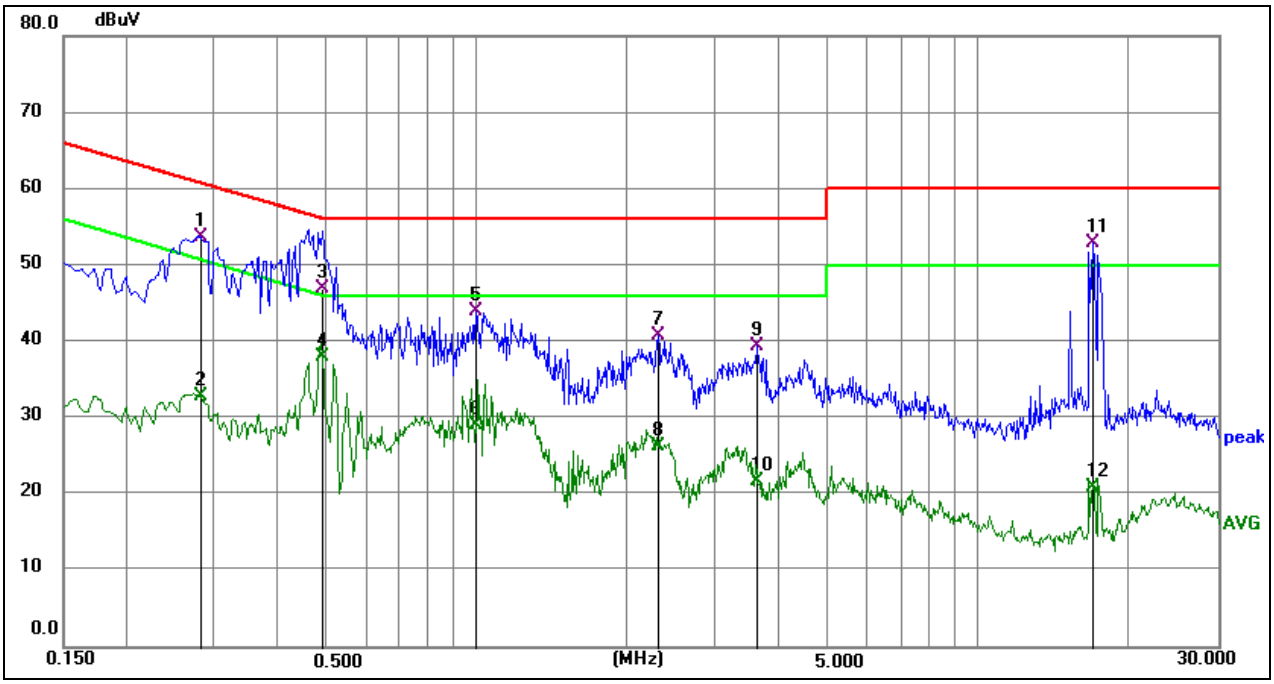
Phase: N Note: TPA-147C050100UU01	Mode: M01

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1590	50.83	9.97	60.80	65.52	-4.72	QP
2	0.1590	39.93	9.97	49.90	55.52	-5.62	AVG
3	0.2670	42.90	9.90	52.80	61.21	-8.41	QP
4	0.2670	30.91	9.90	40.81	51.21	-10.40	AVG
5	0.4695	40.13	9.97	50.10	56.52	-6.42	QP
6	0.4695	24.80	9.97	34.77	46.52	-11.75	AVG
7	0.5910	42.88	10.00	52.88	56.00	-3.12	QP
8	0.5910	25.28	10.00	35.28	46.00	-10.72	AVG
9	0.9645	39.73	10.09	49.82	56.00	-6.18	QP
10	0.9645	22.55	10.09	32.64	46.00	-13.36	AVG
11	1.3020	38.10	10.15	48.25	56.00	-7.75	QP
12	1.3020	20.92	10.15	31.07	46.00	-14.93	AVG



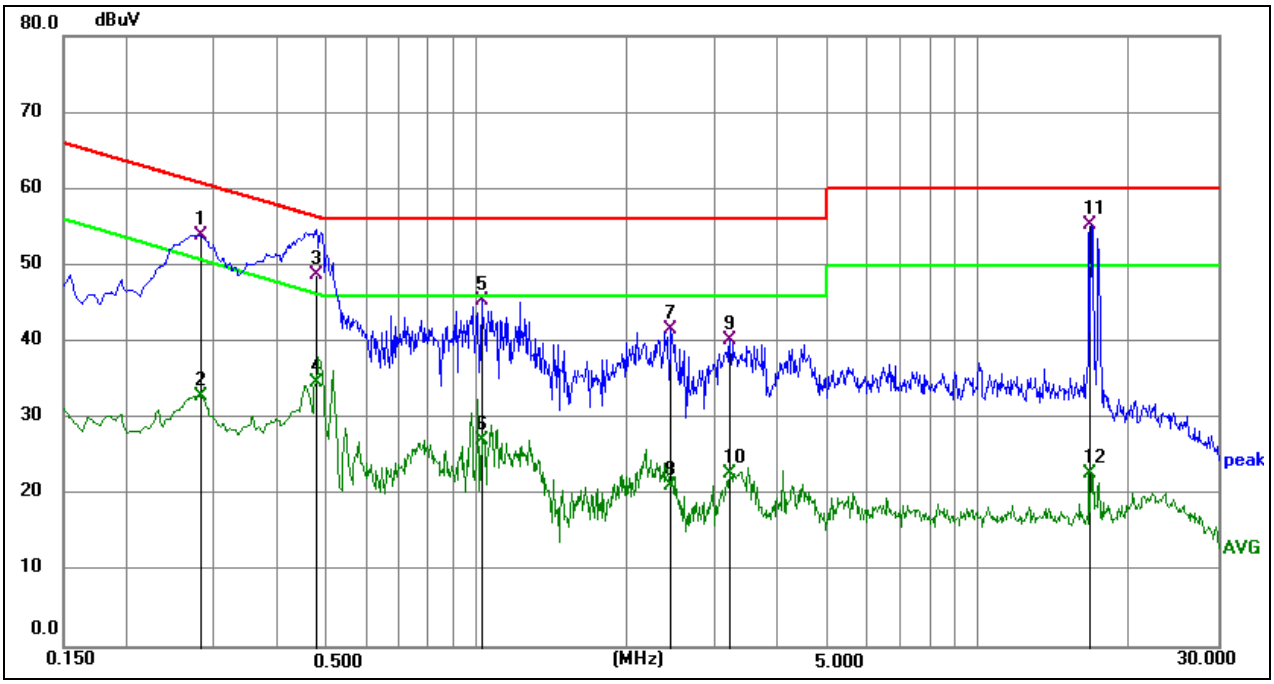
Phase: L1 Note: TPA-147C050100UU01	Mode: M01

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1544	49.50	9.90	59.40	65.76	-6.36	QP
2	0.1544	32.21	9.90	42.11	55.76	-13.65	AVG
3	0.1995	45.45	9.95	55.40	63.63	-8.23	QP
4	0.1995	32.40	9.95	42.35	53.63	-11.28	AVG
5	0.4784	38.36	9.84	48.20	56.37	-8.17	QP
6	0.4784	21.23	9.84	31.07	46.37	-15.30	AVG
7	0.5865	36.72	9.98	46.70	56.00	-9.30	QP
8	0.5865	25.40	9.98	35.38	46.00	-10.62	AVG
9	0.9780	38.55	10.04	48.59	56.00	-7.41	QP
10	0.9780	18.57	10.04	28.61	46.00	-17.39	AVG
11	17.6100	38.09	11.07	49.16	60.00	-10.84	QP
12	17.6100	11.51	11.07	22.58	50.00	-27.42	AVG



Phase: L1 Note: M050100-A005US	Mode: M01

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2805	43.88	9.83	53.71	60.80	-7.09	QP
2	0.2805	22.95	9.83	32.78	50.80	-18.02	AVG
3	0.4920	37.06	9.84	46.90	56.13	-9.23	QP
4	0.4920	28.08	9.84	37.92	46.13	-8.21	AVG
5	0.9960	33.89	10.04	43.93	56.00	-12.07	QP
6	0.9960	18.99	10.04	29.03	46.00	-16.97	AVG
7	2.3054	30.62	10.13	40.75	56.00	-15.25	QP
8	2.3054	16.26	10.13	26.39	46.00	-19.61	AVG
9	3.6330	29.24	10.16	39.40	56.00	-16.60	QP
10	3.6330	11.63	10.16	21.79	46.00	-24.21	AVG
11	16.8810	41.79	11.04	52.83	60.00	-7.17	QP
12	16.8810	9.94	11.04	20.98	50.00	-29.02	AVG



Phase: N Note: M050100-A005US	Mode: M01

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2805	43.99	9.89	53.88	60.80	-6.92	QP
2	0.2805	22.87	9.89	32.76	50.80	-18.04	AVG
3	0.4785	38.83	9.97	48.80	56.37	-7.57	QP
4	0.4785	24.66	9.97	34.63	46.37	-11.74	AVG
5	1.0230	35.34	10.11	45.45	56.00	-10.55	QP
6	1.0230	16.91	10.11	27.02	46.00	-18.98	AVG
7	2.4450	31.39	10.20	41.59	56.00	-14.41	QP
8	2.4450	10.96	10.20	21.16	46.00	-24.84	AVG
9	3.1920	30.06	10.21	40.27	56.00	-15.73	QP
10	3.1920	12.53	10.21	22.74	46.00	-23.26	AVG
11	16.8134	44.20	11.03	55.23	60.00	-4.77	QP
12	16.8134	11.78	11.03	22.81	50.00	-27.19	AVG

Remark: Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)
Margin = Result - Limit

7.2. RADIATED EMISSIONS BELOW 1GHZ

LIMITS

Below 1 GHz

CFR 47 FCC Part 15 Subpart B		
Frequency (MHz)	Class A	Class B
	Field strength (dBuV/m) (at 3 m)	Field strength (dBuV/m) (at 3 m)
30 - 88	49.5	40
88 - 216	53.9	43.5
216 - 960	56.9	46
Above 960	60	54

Test Frequency Range of Radiated Disturbance Measurement

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5^{th} harmonic of the highest frequency or 40 GHz, whichever is lower

NOTE:

(1) The limit for radiated test was performed according to FCC Part 15, Subpart B;
(2) The tighter limit applies at the band edges;
(3) Emission level (dBuV/m) = 20log Emission level (uV/m),
3m Emission level = 10 m Emission level + 20log(10 m/3 m);

TEST PROCEDURE

Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak and QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.4-2014.

2. 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 was used

for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

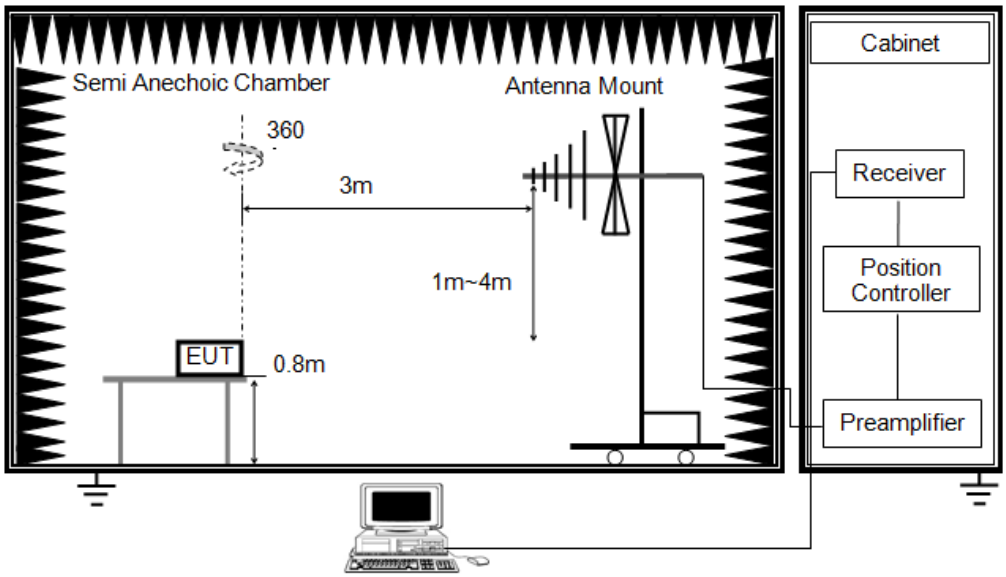
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

6. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.

7. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

8. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

TEST SETUP



TEST ENVIRONMENT

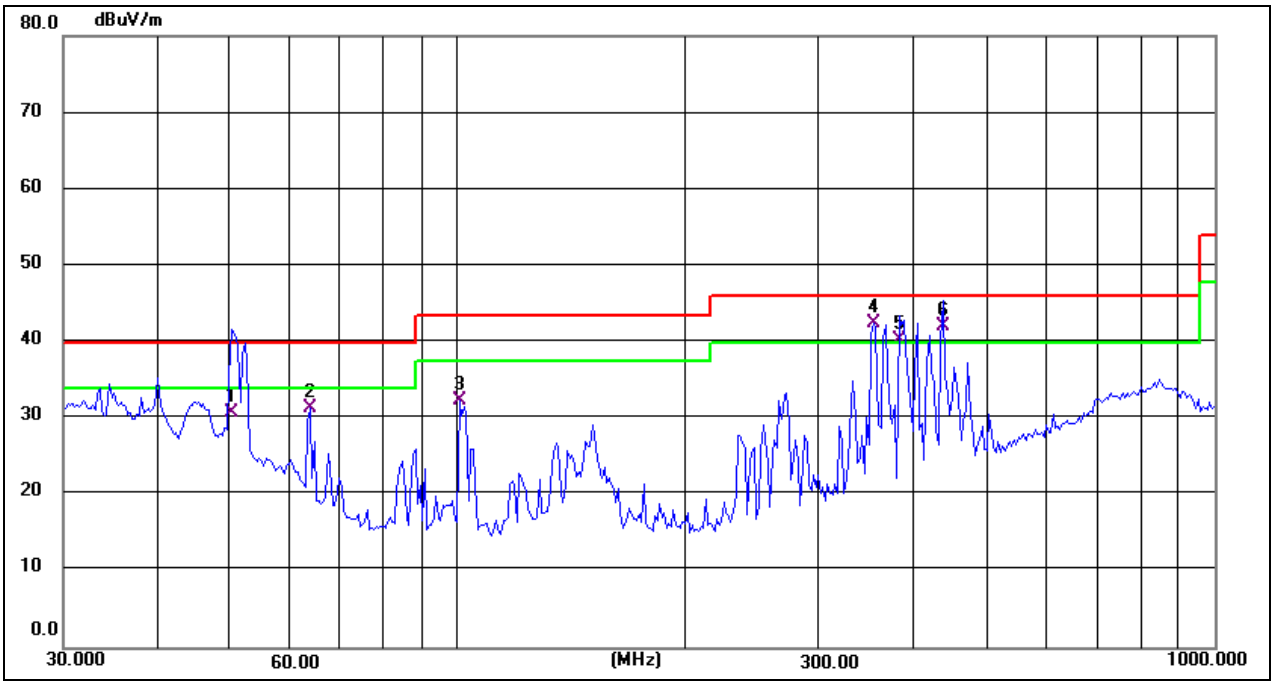
Temperature	20.3℃	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST MODE

Pre-test Mode:	M01 ~ M01
Final Test Mode:	M01

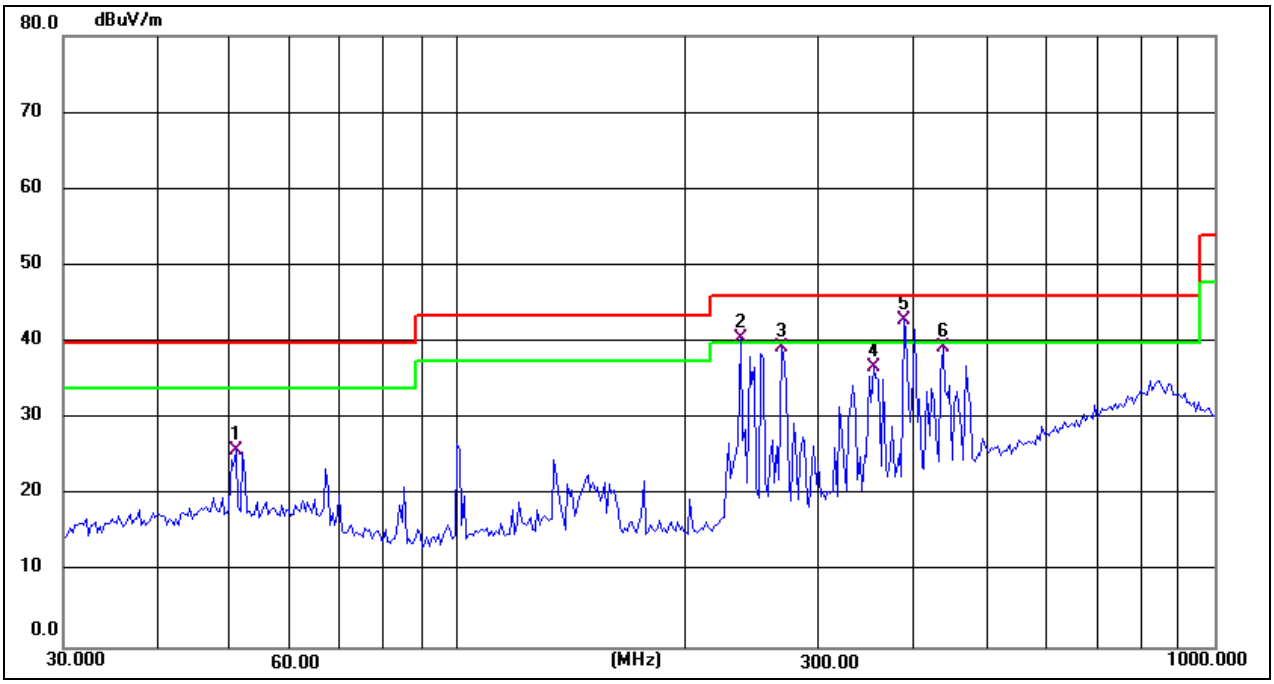
Note: All test modes had been tested, but only the worst data recorded in the report.

TEST RESULTS



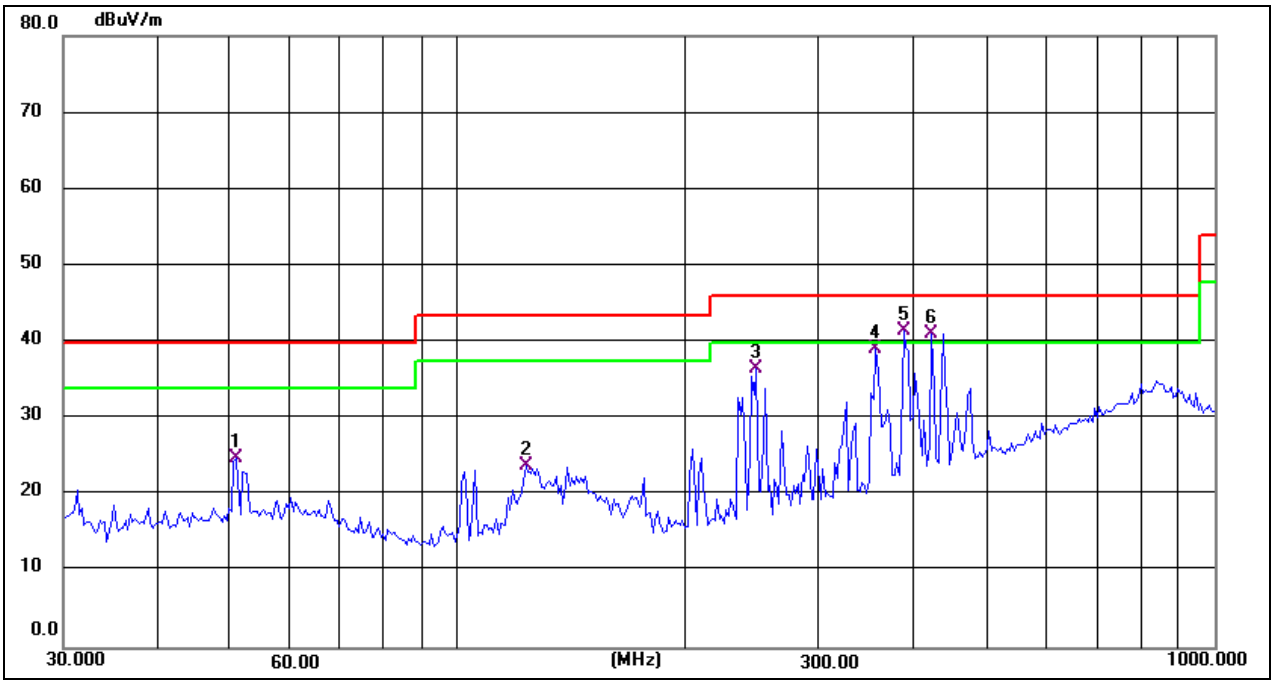
Antenna:Vertical Note: TPA-147C050100UU01	Mode: M01

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1	50.0566	40.20	-9.50	30.70	40.00	-9.30	QP	
2	63.5356	40.92	-9.49	31.43	40.00	-8.57	QP	
3	100.2285	44.54	-12.14	32.40	43.50	-11.10	QP	
4 *	354.1831	48.93	-6.45	42.48	46.00	-3.52	QP	
5 !	382.5878	45.73	-5.40	40.33	46.00	-5.67	QP	
6 !	437.1200	45.78	-3.63	42.15	46.00	-3.85	QP	



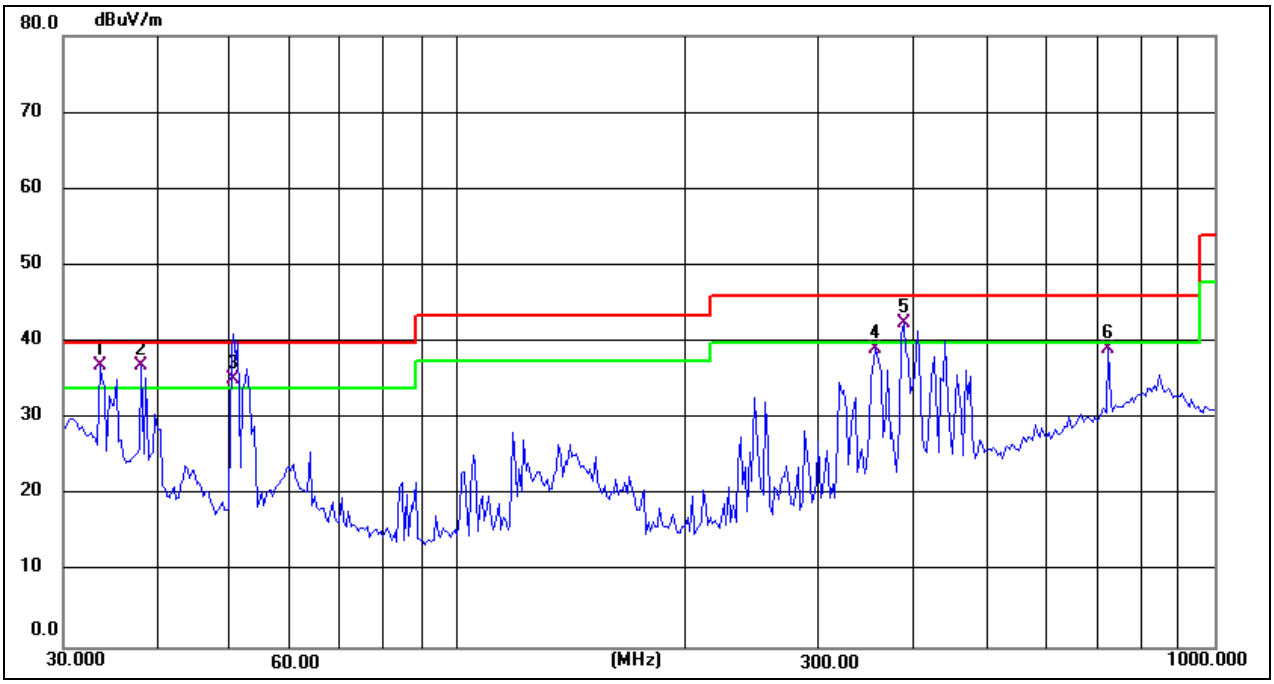
Antenna:Horizontal Note: TPA-147C050100UU01	Mode: M01

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1	50.7636	35.25	-9.43	25.82	40.00	-14.18	QP	
2 !	235.8163	51.41	-10.86	40.55	46.00	-5.45	QP	
3	267.5454	48.55	-9.29	39.26	46.00	-6.74	QP	
4	354.1831	43.09	-6.45	36.64	46.00	-9.36	QP	
5 *	387.9920	48.03	-5.10	42.93	46.00	-3.07	QP	
6	437.1200	42.84	-3.63	39.21	46.00	-6.79	QP	



Antenna:Horizontal Note: M050100-A005US	Mode: M01

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1	50.7636	34.33	-9.43	24.90	40.00	-15.10	QP	
2	122.8340	35.73	-11.81	23.92	43.50	-19.58	QP	
3	247.6818	46.67	-10.19	36.48	46.00	-9.52	QP	
4	356.6758	45.34	-6.28	39.06	46.00	-6.94	QP	
5 *	387.9920	46.51	-5.10	41.41	46.00	-4.59	QP	
6 !	422.0577	45.17	-4.07	41.10	46.00	-4.90	QP	



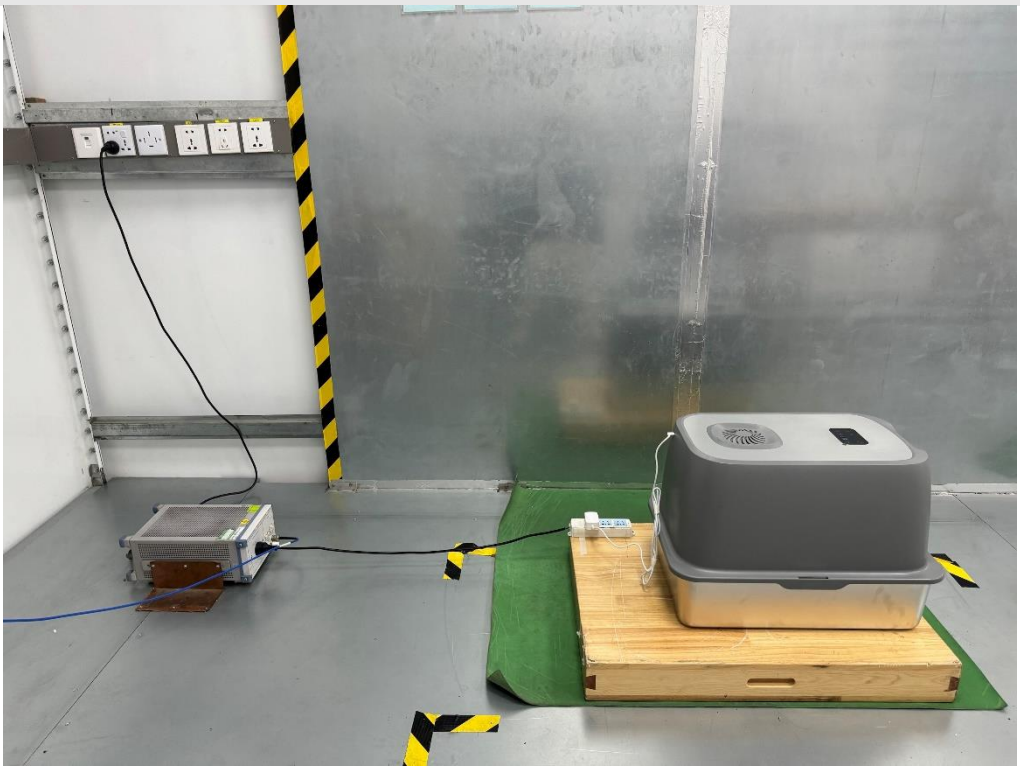
Antenna:Vertical Note: M050100-A005US	Mode: M01

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1 !	33.5624	48.71	-11.75	36.96	40.00	-3.04	QP	
2 *	38.0782	47.82	-10.83	36.99	40.00	-3.01	QP	
3 !	50.4090	44.61	-9.47	35.14	40.00	-4.86	QP	
4	356.6758	45.37	-6.28	39.09	46.00	-6.91	QP	
5 !	387.9920	47.52	-5.10	42.42	46.00	-3.58	QP	
6	724.2610	36.44	2.76	39.20	46.00	-6.80	QP	

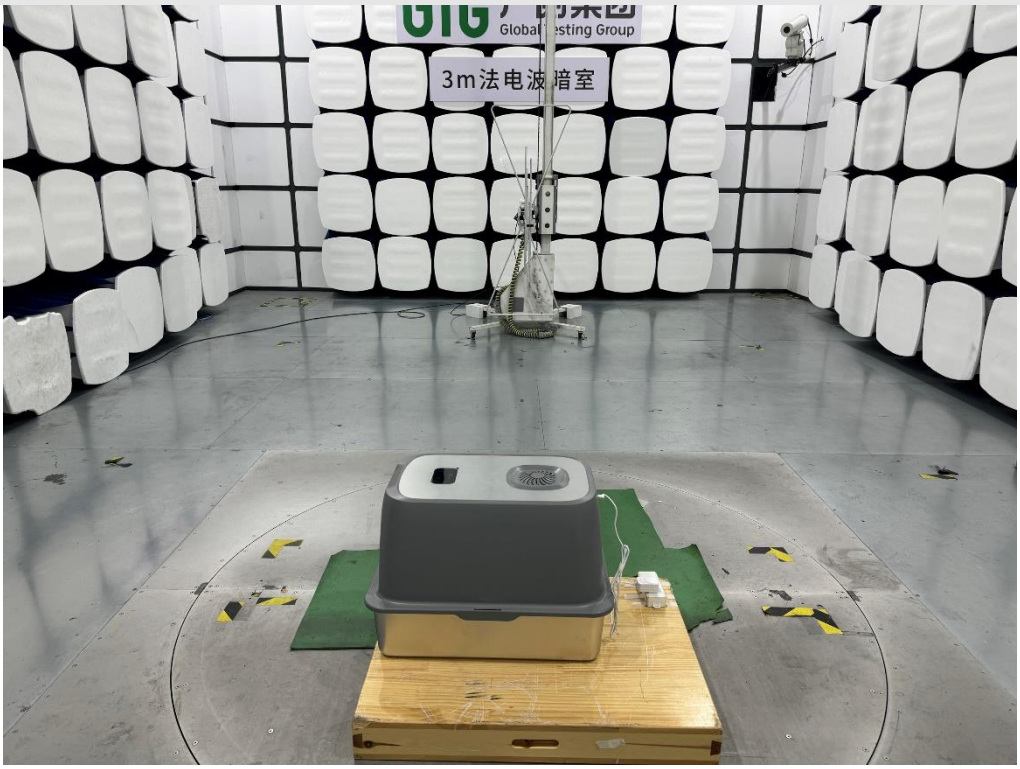
Remark: 1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)
2. Margin = Result - Limit

APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

Conducted emissions

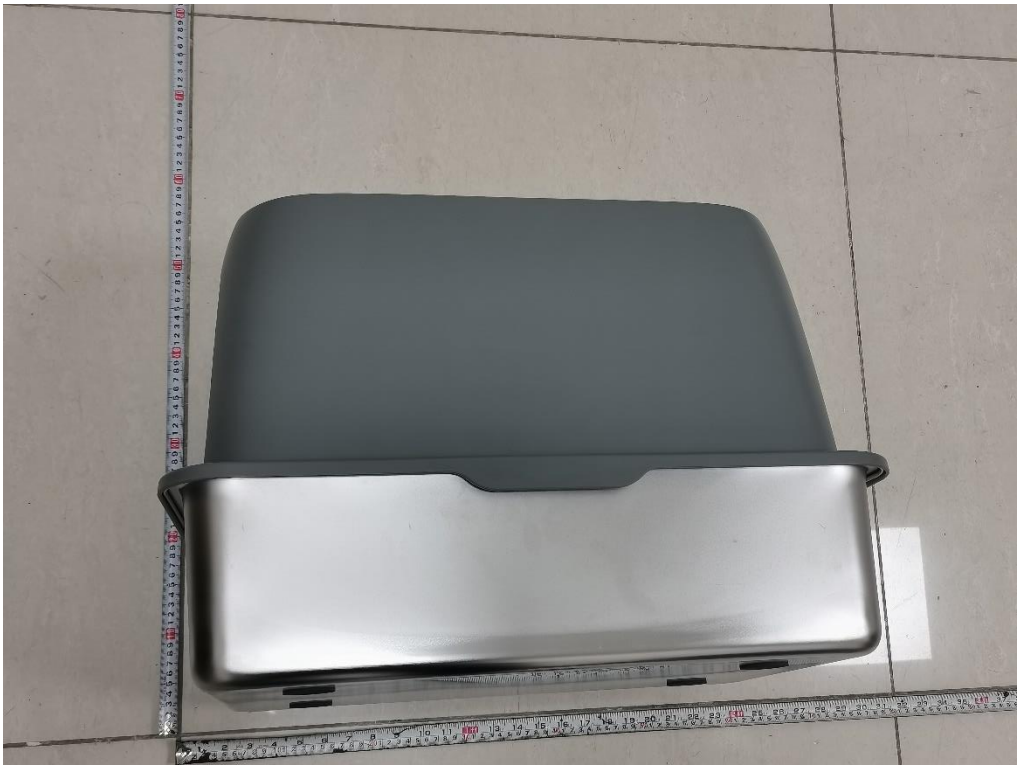


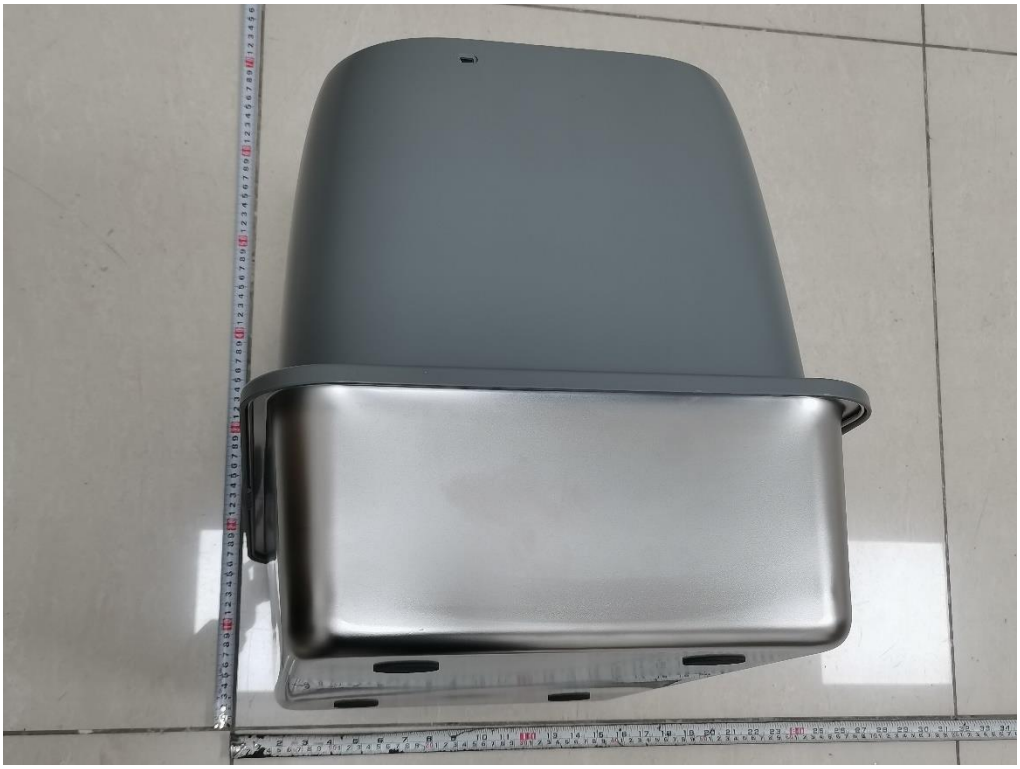
Radiated emissions below 1GHz



APPENDIX: PHOTOGRAPHS OF THE EUT

External

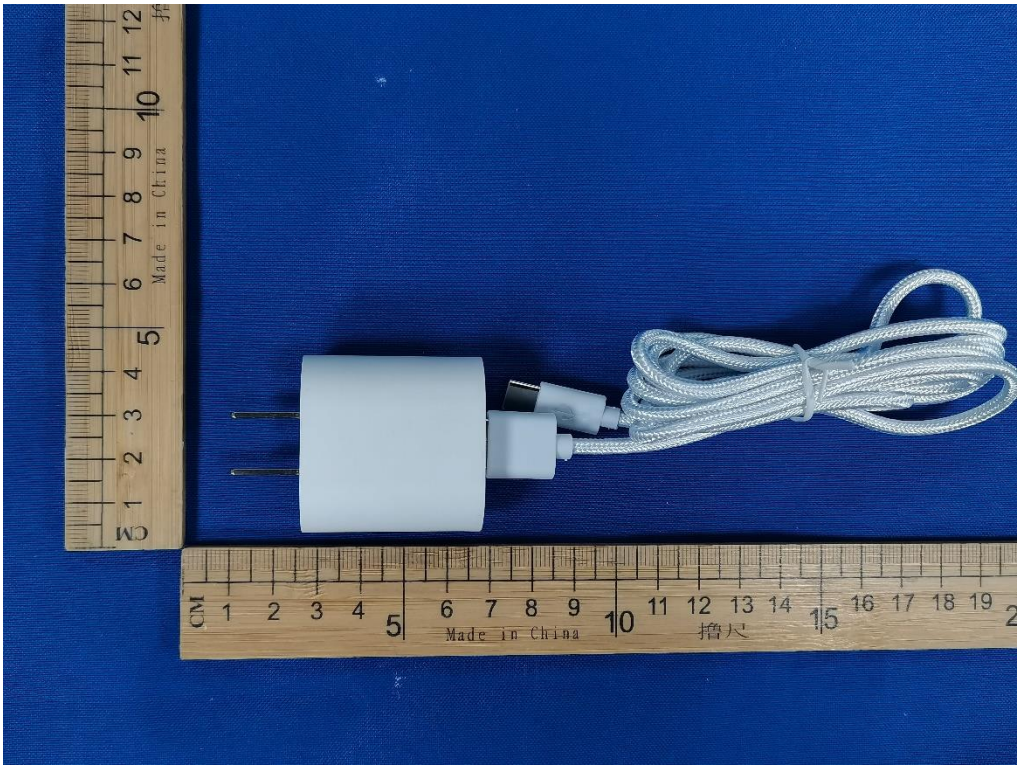





MLS Class 2 Power supply
MODEL: M050100-A005US
INPUT: 100-240V~ 50/60Hz 0.5A
OUTPUT: 5.0V ⎓ 1.0A 5.0W
C ETL LISTED US
FC
MMYY
Intertek
5027014
CONFORMS TO UL STD.1310
CERTIFIED TO CSA STD.C22.2 NO.223
Zhongshan MLS Electrical Appliance Co., Ltd.

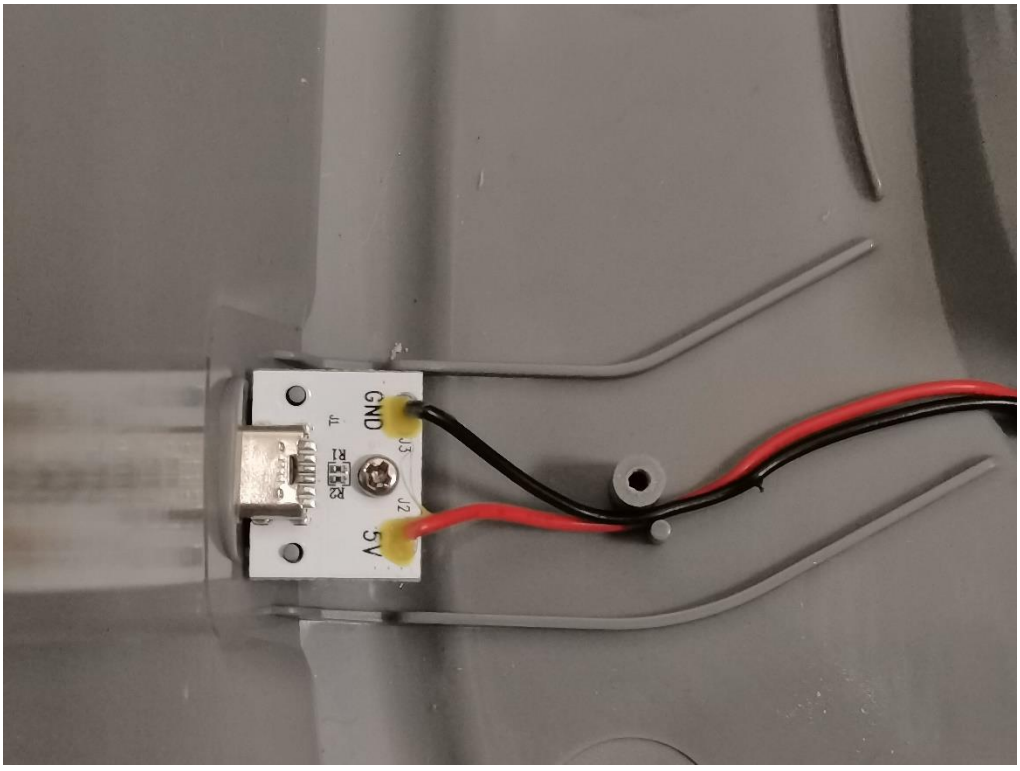

CAUTION: Risk of electric
shock, dry location use only, for indoor use only see instruction manual for use in countries other than the U.S.A
ATTENTION: POUR UTILISATION À L'INTÉRIEUR SEULEMENT, RISQUES D'INCÉNDIE
OU DECHOC ELECTRIQUES Voir le manuel d'instructions pour une utilisation dans le pays d'autres pays que les États-Unis

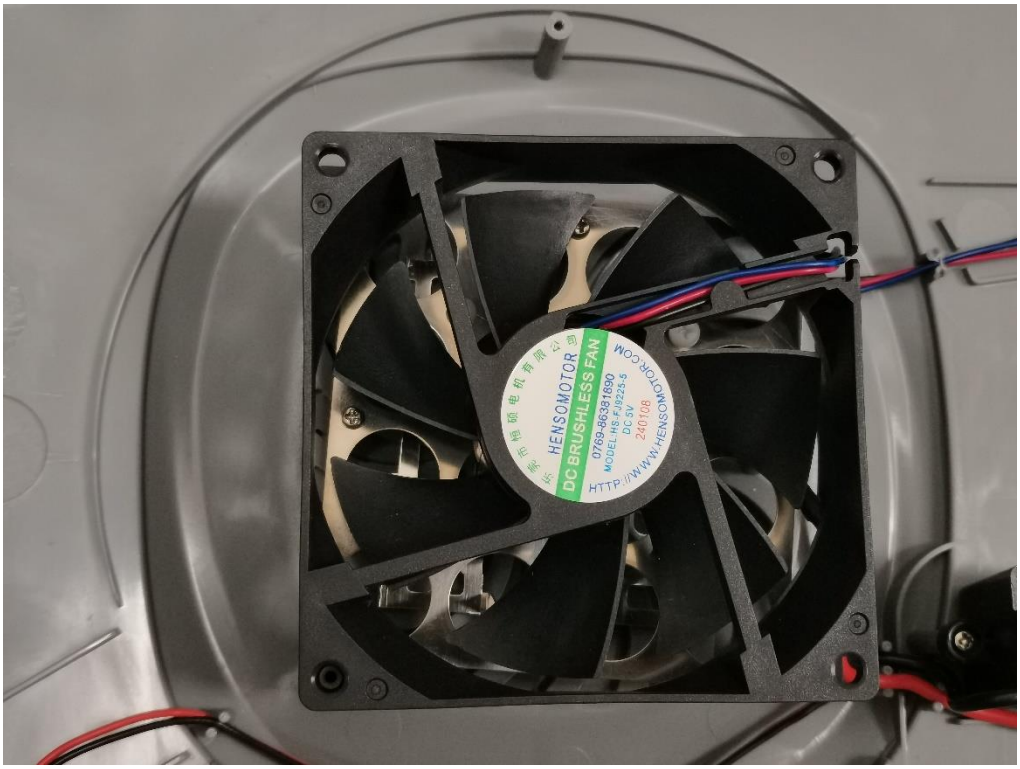

CM
Made in China
撸尺

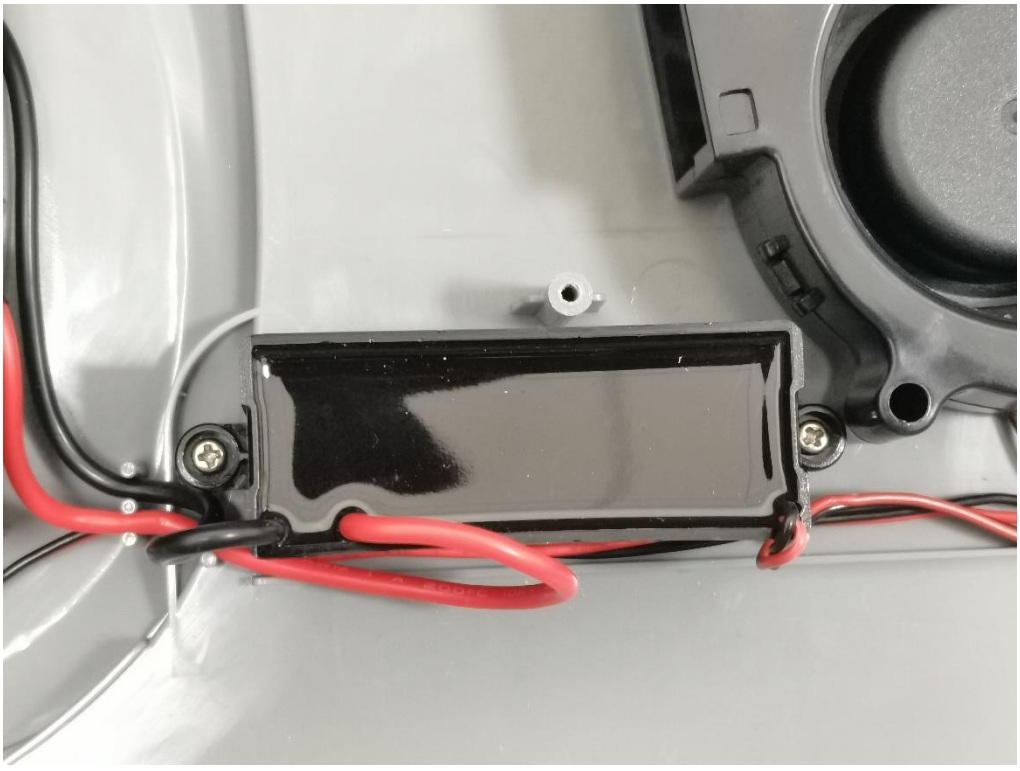

CM
Made in China
撸尺


Power Adapter
Model:TPA-147C050100UU01
Input:100-240V ~ 50/60Hz 0.2A
Output:5.0V ⎓ 1.0A
SHENZHEN TIANYIN ELECTRONICS CO.,LTD.
Made in China
VI
c UL us
LISTED
E326703
QQJQ Power Supply

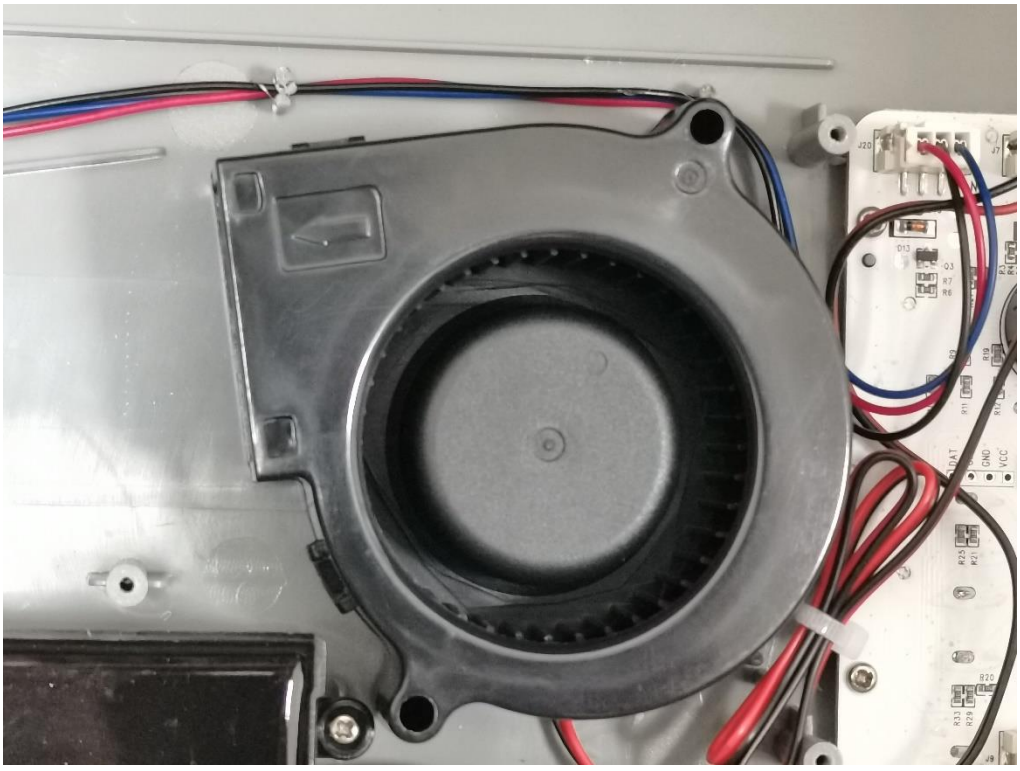
Internal


GND
5V

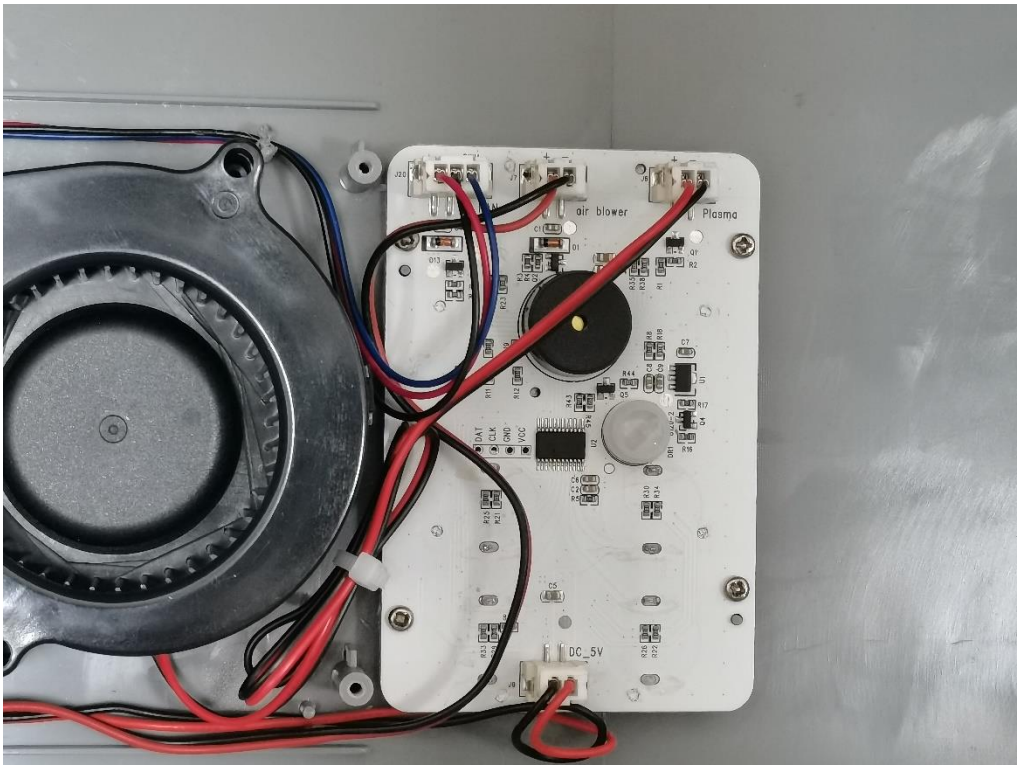

HENSOMOTOR
DC BRUSHLESS FAN
0769-86381890
HTTP://WWW.HENSOMOTOR.COM

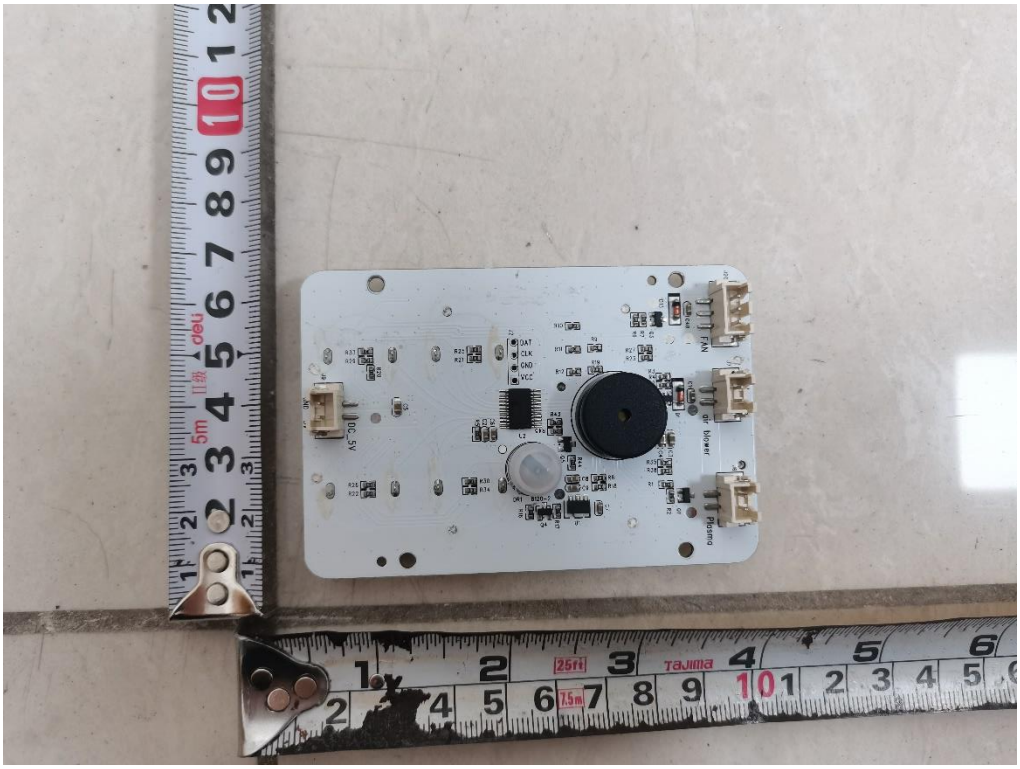



Plasma Generator
DC5V<1W
Red"+"Black"-"




HENSOMOTOR®
DC BRUSHLESS FAN
0769-86381890
MODEL:HS-FJ7530-5
DC 5V
231213
HTTP://WWW.HENSOMOTOR.COM


air blower
Plasma
DC_5V



END OF REPORT