



#### FCC SDoC TEST REPORT

Powerstick.com Inc.

Aura

Test Model: 4116

Prepared for : Powerstick.com Inc.

Address : 29 Camelot Drive, Ottawa, Canada, K2G 5W6

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.

Address : Room 101, 201, Building A and Room 301, Building C,

Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel : (+86)755-82591330 Fax : (+86)755-82591332 Web : www.LCS-cert.com

Mail : webmaster@LCS-cert.com

Date of receipt of test sample : May 25, 2022

Number of tested samples :

Sample No. : A052422040 Serial number : Prototype

Date of Test : May 25, 2022 ~ May 30, 2022

Date of Report : June 01, 2022



Report No.: LCSA052422040E



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Page 2 of 25 FCC ID: 2AITN-AURA

FCC SDoC TEST REPORT FCC 47 CFR Part 15 Subpart B, Class B(SDoC), ANSI C63.4 -2014

Report Reference No. ......: LCSA052422040E

Date Of Issue ...... : June 01, 2022

Testing Laboratory Name ....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Address .....: : Room 101, 201, Building A and Room 301, Building C, Juji

Industrial Park, Yabianxueziwei, Shajing Street, Bao'an

Report No.: LCSA052422040E

District, Shenzhen, Guangdong, China

Testing Location/ Procedure...: Full application of Harmonised standards

Other standard testing method

Powerstick.com Inc. Applicant's Name.....

Address ...... 29 Camelot Drive, Ottawa, Canada, K2G 5W6

Test Specification

: FCC 47 CFR Part 15 Subpart B, Class B(SDoC), ANSI

C63.4 -2014

Test Report Form No...... LCSEMC-1.0

TRF Originator.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF.....: Dated 2011-03

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Test Item Description.....: : Aura

Trade Mark .....: N/A

Test Model .....: 4116

Ratings ..... ! Input: 5V==1A

DC 3.7V by Rechargeable Li-ion Battery, 330mAh

Result .....: : Positive

Compiled by:

Supervised by:

Approved by:

Cary Luo / Technique principal

Gavin Liang/ Manager



Report No.: LCSA052422040E



#### FCC SDOC-- TEST REPORT

Test Report No. : LCSA052422040E 

June 01, 2022

Date of issue

 Test Model
 : 4116

 EUT
 : Aura

 Applicant
 : Powerstick.com Inc.

 Address
 : 29 Camelot Drive, Ottawa, Canada, K2G 5W6

 Telephone
 : /

 Fax
 : /

 Manufacturer
 : Powerstick.com Inc.

 Address
 : 29 Camelot Drive, Ottawa, Canada, K2G 5W6

 Telephone
 : /

 Fax
 : Powerstick.com Inc.

 Address
 : 29 Camelot Drive, Ottawa, Canada, K2G 5W6

 Telephone
 : /

 Fax
 : /

#### Test Result according to the standards on page 6: Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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# Revision History

Report Version	Issue Date	Revised By	
000	June 01, 2022	Initial Issue	

在 LCS Testing Lab TET 立语检测股份

NS 工活检测股份 LCS Testing Lab

Report No.: LCSA052422040E



















LCS Testing Lab





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# TABLE OF CONTENTS

Test Report Description	Page
1. SUMMARY OF STANDARDS AND RESULTS	6
1.1. Description of Standards and Results	6
2. GENERAL INFORMATION	7
2.1. Description of Device (EUT)	7
2.2. Support Equipment List	8
2.3 External I/O Cable	8
2.4. Description of Test Facility	8
2.4. Statement of the Measurement Uncertainty	9
2.5. Measurement Uncertainty	9
3. TEST RESULTS	10
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT	10
3.2. Radiated emission Measurement	14
4. PHOTOGRAPH	19
5. EXTERNAL AND INTERNAL PHOTOS OF THE EUT	20















Report No.: LCSA052422040E













# 1. SUMMARY OF STANDARDS AND RESULTS

## 1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

	EMISSION		
Description of Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	FCC 47 CFR Part 15 Subpart B, Class B(SDoC), ANSI C63.4 -2014	Class B	PASS
Radiated disturbance	FCC 47 CFR Part 15 Subpart B, Class B(SDoC), ANSI C63.4 -2014	Class B	PASS
N/A is an abbreviation for Not Ap	pplicable.	LCS Test	ing L

Test mode:		
Mode 1	Normal operation	Record















# 2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : Aura

Trade Mark : N/A

Test Model : 4116

Power Supply : Input: 5V==1A

DC 3.7V by Rechargeable Li-ion Battery, 330mAh

Report No.: LCSA052422040E

Highest internal

: Fx ≤ 108 MHz

frequency (Fx)

Highest internal frequency (Fx)	Highest measured frequency
Fx ≤ 108 MHz	1 GHz
108 MHz < Fx ≤ 500 MHz	2 GHz
500 MHz < Fx ≤ 1 GHz	5 GHz
Fx > 1 GHz	5 x Fx up to a maximum of 6 GHz

NOTE 1 For FM and TV broadcast receivers, Fx is determined from the highest frequency generated or used excluding the local oscillator and tuned frequencies.

Where Fx is unknown, the radiated emission measurements shall be performed up to 6 GHz.











Page 8 of 25

FCC ID: 2AITN-AURA

# 2.2. Support Equipment List

2	. Support Ed	quipment List			
	Manufacturer	Description	Model	Serial Number	Certificate
	OPPO 🌕	Adapter	OP52KAUH		OPPO

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Note: Auxiliary equipment is provided by the laboratory.

#### 2.3 External I/O Cable

I/O Port Description	Cable	
Power Port	1	N/A

# 2.4. Description of Test Facility

Site Description

EMC Lab.

: NVLAP Accreditation Code is 600167-0. FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595. Test Firm Registration Number: 254912.







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# 2.4. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Report No.: LCSA052422040E

### 2.5. Measurement Uncertainty

Test	Parameters	Expanded Uncertainty (Ulab)	Expanded Uncertainty (Ucispr)
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.63 dB ± 2.35 dB	± 3.8 dB ± 3.4 dB
Radiated Emission	Level accuracy (9kHz to 30MHz)	± 3.68 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 3.48 dB	± 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	± 3.90 dB	± 5.2 dB

- (1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.
- (2) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.



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#### 3. TEST RESULTS

#### 3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

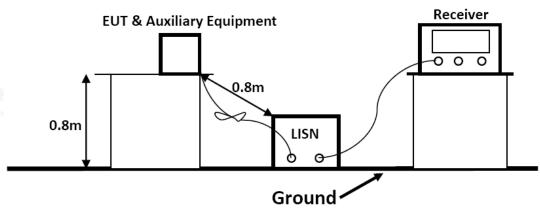
#### 3.1.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

Report No.: LCSA052422040E

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	Farad	EZ	/	N/A	N/A
2	EMI Test Receiver	R&S	ESR3	102311	2022-03-15	2023-03-14
3	Artificial Mains	R&S	ENV216	101288	2021-06-21	2022-06-20
4	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2021-06-21	2022-06-20
5	Impedance Stabilization Network	TESEQ	ISN T800	45130	2021-12-01	2022-11-30

#### 3.1.2.Block Diagram of Test Setup



#### 3.1.3.Test Standard

Power Line Conducted Emission Limits (Class B)

	Frequenc	;y	Limit (dBμV)						
VIII	(MHz)		Quasi-peak Level	Average Level					
0.15	Ing Lab	0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *					
0.50	~	5.00	56.0	46.0					
5.00	~	30.00	60.0	50.0					

NOTE1-The lower limit shall apply at the transition frequencies.

NOTE2-The limit decreases linearly with the logarithm of the

frequency in the range 0.15MHz to 0.50MHz.

#### 3.1.4.EUT Configuration on Test

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.



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#### 3.1.5. Operating Condition of EUT

- 3.1.5.1. Setup the EUT as shown on Section 3.1.2
- 3.1.5.2. Turn on the power of all equipments.
- 3.1.5.3.Let the EUT work in measuring Mode 1 and measure it.

#### 3.1.6.Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides 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 C63.4-2014 on Conducted Emission Measurement.

The bandwidth of the test receiver is set at 9kHz.

The frequency range from 150kHz to 30MHz is investigated

3.1.7.Test Results

PASS.

The test result please refer to the next page.



LCS Testing Lab





心测度份				公司服役份																																						
Test Model				4116 23.4°C, 54.6% RH								Test Mode							Mode 1																							
<b>Environmental Conditions</b>											3	7	Test Engineer						Bill Zhu																							
Pol							Li	Line					•	Test Voltage					е	AC	12	20V	/60H	Ηz																		
	80.0	dBuV					_								_	_	_		_				_		1																	
	70							+							+		_	_	$\perp$				$\perp$		-																	
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	3	*	0.716	0	11	.33	3		19.	65		30	.98		56	6.00	0	-2	25.	02	(	QΡ																				
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	6		1.511	3	-6.	.71			19.	67		12	.96		4	6.00	0	-3	33.	04	Α	VG				_																
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				_			_								_											_																



11

12

15.5523

15.8014





60.00

50.00

-28.91

-32.36

QP

AVG





11.19

-2.26

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31.09

17.64

Scan code to check authenticity

19.90

19.90

S	Page 13 of 25	FCC ID: 2AITN-AURA	Report No.: LCSA052422040E
	Page 13 of 25	FCC ID: 2AITN-AURA	Report No.: LCSA052422040E

Test	Model		41	16		Test	Mode	Mode 1
Envi	ronment	tal Conditi	ions 23	.4℃, 54.6	6% RH	Test	Engineer	Bill Zhu
Pol			Ne	eutral	-	Test	Voltage	AC 120V/60Hz
Pol	80.0 dBuV 70 60 50 40 20 10	<b>1</b>		5	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	F	CC PART 15B Cond	duction(QP) uction(AVG)
	-10 -20 0.150 No. Mk.	Freq.	0.500 0.80 Reading Level	Correct Factor	(MHz) Measure- ment	5.000 Limit	Margin	30.000
计形式		MHz	dBuV	dB	dBuV	dBuV	dB De	tector Comment
LCST	1	0.1500	16.48	19.63	36.11	66.00	-29.89	QP STORE
	2	0.1516	3.39	19.63	23.02	55.91	-32.89 A	AVG
	3 *	0.7126	14.59	19.65	34.24	56.00	-21.76	QP
	4	0.7171	2.65	19.65	22.30	46.00	-23.70 A	AVG
	5	1.5271	7.88	19.67	27.55	56.00	-28.45	QP
	6	1.5451	-4.86	19.67	14.81	46.00	-31.19 A	AVG
	7	3.2551	7.36	19.76	27.12	56.00	-28.88	QP
	8	3.3001	-4.28	19.76	15.48	46.00	-30.52 A	AVG
1	9	5.2485	7.35	19.80	27.15	60.00		QP
	10	5.2666	-4.47	19.80	15.33	50.00		AVG
	11	19.2526	12.20	20.19	32.39	60.00		QP
	12	19.4685	-3.06	20.19	17.13	50.00		AVG
	Note: I	Pre-Scan a	all mode,	Thus rec	ord worse	case n	node result	in this report.











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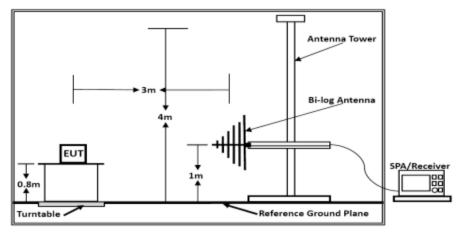
#### 3.2. Radiated emission Measurement

#### 3.2.1. Test Equipment

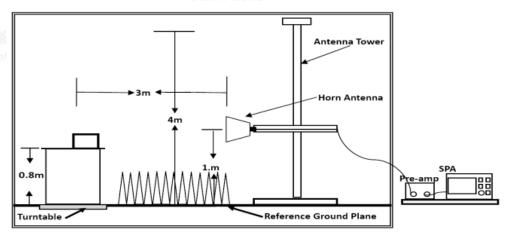
# The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	Farad	EZ	/	N/A	N/A
2	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2021-06-21	2022-06-20
3	Positioning Controller	MF	MF7082	MF78020803	2021-06-21	2022-06-20
4	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-07-25	2024-07-24
5	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-07-01	2024-06-30
6	EMI Test Receiver	R&S	ESR3	102312	2021-06-21	2022-06-20
71	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2021-11-16	2022-11-15
8	Broadband Preamplifier	/	BP-01M18G	P190501	2021-06-21	2022-06-20

#### 3.2.2. Block Diagram of Test Setup



Below 1GHz



Above 1GHz



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#### 3.2.3. Radiated Emission Limit (Class B)

#### Limits for Radiated Disturbance Below 1GHz

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FREQUENCY	DISTANCE	FIELD STRENGTHS LIMIT					
MHz	Meters	μV/m	dB(μV)/m				
30 ~ 88	3	100	40				
88 ~ 216	3	150	43.5				
216 ~ 960	3	200	46				
960 ~ 1000	3	500	54				

Remark: (1) Emission level (dB) $\mu$ V = 20 log Emission level  $\mu$ V/m

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

Limits for Radiated Emission Above 1GHz										
Frequency Distance Peak Limit Average Limit										
(MHz)	(Meters)	(dBµV/m)	(dBµV/m)							
Above 1000	3	74	54							
***Note: The lower limi	t applies at the tran	sition frequency.								

#### 3.2.4. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

#### 3.2.5. Operating Condition of EUT

- 3.2.5.1. Setup the EUT as shown in Section 3.2.2.
- 3.2.5.2.Let the EUT work in test Mode 1 and measure it.

#### 3.2.6. Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated by-log antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2014 on radiated emission measurement.

#### 3.2.7. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver



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Report No.: LCSA052422040E

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average
RB / VB (Emission in non-restricted	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for
band)	Average

The frequency range from 30MHz to 1000MHz and above 1000MHz is checked.

#### 3.2.8. Radiated Emission Noise Measurement Result

#### PASS.

The scanning waveforms please refer to the next page.



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Report No.: LCSA052422040E

Test M	odel				411	6	fi .		T	es	st I	Mode			N	Mod	le 1		- 14	
Enviro	nmenta	al Co	ndition	s	24.	1℃,	52.2% RI	+	<b>Detector Function</b>				(	Qua	si-	ое	ak	K		
Pol	Pol Test Engineer					Vertical Bill Zhu			Distance					3m AC 120V/60H			-			
Test Er									Test Voltage								I	Z		
70	.0 dBuV/	'm									_							7		
60					+			_			ET	C Part15	RF-Class	B 30-	1 0001	Нэ	+	$\frac{1}{2}$		
50											<u>.</u>	egin -6 dl	IL-Class	D_30	100014	112	$\perp$			
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10	acon a phosphas	S A	madder the particular white	Lake Branch	3	ngel physique		eageweigh.	and the same	ማኅነነ	m	protolydyddidina	The ways	UNAHUNGANA	°14/4/14/+4-4	, Jun				
0					+	To a Major	Mulipunger I										+	+		
-10	·				+						+						+	+		
-2	·										+							+		
-31	30.000		60.00				(MHz)				301	0.00					10	 00.0	nna	
<b>世讯检测</b>	No.		quency		eadi		Factor	ı	_e\			Lir	nit		rgin	De	tect		行话枪	
LCS Testi	_	•	ИHz)	,	lBu\	•	(dB/m)	•				(dBu			B)				LCST	
	1		.4238	+-	35.7		-18.40	-	7.				.00	-	2.69	₩	QP			
	2		.1202	_	28.9		-17.01		1.				.00	_	3.07	-	QР			
	3		.7248	+	32.6		-19.11	_	3.				.00		3.51	-	QР			
	4	189	7385	3	34.6	5	-18.34	1	6.	31		43	.50	-27	.19	(	QΡ			

5

6

406.0880

948.7610



29.78

29.47

-14.41

-8.15







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15.37

21.32

46.00

46.00

-30.63

-24.68

QP

QP



Report No.: LCSA052422040E

Test M	odel		4116	2(17)	Test	Mode		Mode 1				
Enviro	nment	al Condition	s 24.1°C	, 52.2% R	H Dete	ctor Funct	ion	Quasi-peak				
Pol			Horizo		Dista			3m AC 120V/60H				
Test E	nginee	er	Bill Zh	ıu	Test	Voltage						
70		/m										
60 50					FC	C Part15 RE-Class	B_30-1000M	Hz				
40												
30							5	6 Acres pe	ak			
10		NAME OF THE PARTY	WHAT THE WAY	March and the march of the last of the las	the design of the second	A the grand adaption of the second appropriate the	Water State of the	potent of my of the state of th				
-11												
-20												
-30												
г	30.000	60.00		(MHz)	300	0.00		1000.00	00			
立语检测	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector				
LCS Test	1	45.5348	27.85	-16.91	10.94	40.00	-29.06	peak				
	2	80.3619	31.25	-19.84	11.41	40.00	-28.59	peak				
	3	199.9856	31.17	-17.39	13.78	43.50	-29.72	peak				
	4	329.0390	27.94	-14.30	13.64	46.00	-32.36	peak				
Ī	5	603.5392	29.00	-10.52	18.48	46.00	-27.52	peak				
•	6	890.7278	30.52	-8.45	22.07	46.00	-23.93	peak				

Note: 1. Pre-Scan all mode, Thus record worse case mode result in this report.



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# **PHOTOGRAPH**



Photo of Power Line Conducted Measurement

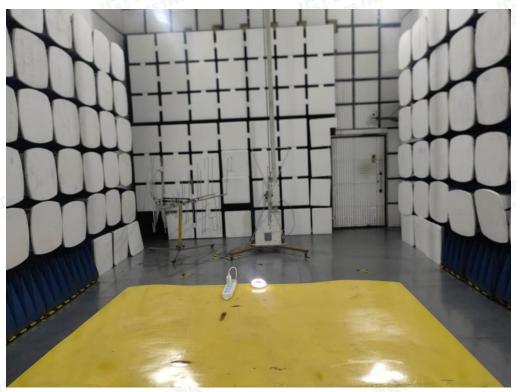


Photo of Radiated Measurement



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# 5. EXTERNAL AND INTERNAL PHOTOS OF THE EUT



Fig. 1

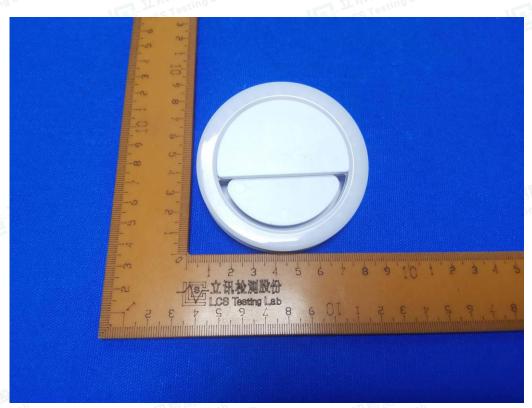


Fig. 2



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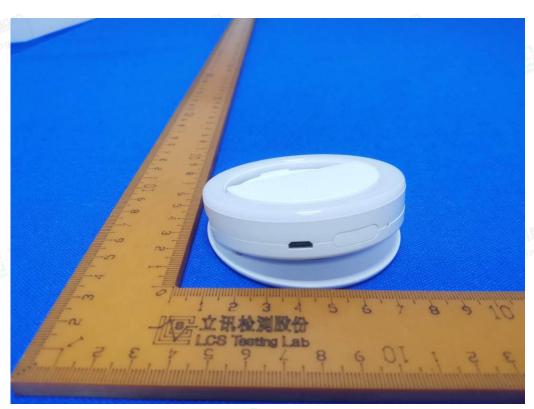


Fig. 3

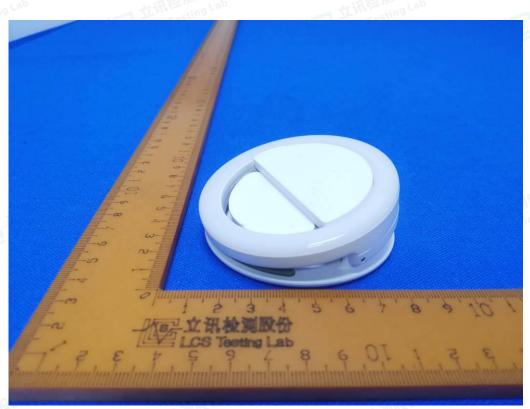


Fig. 4



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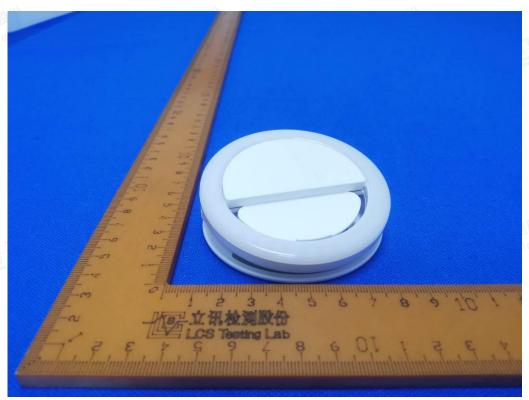


Fig. 5

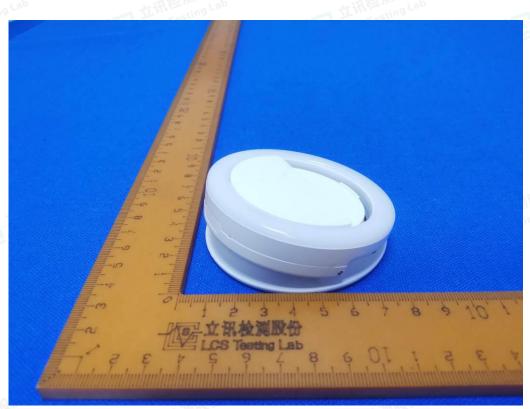


Fig. 6



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Fig. 7



Fig. 8



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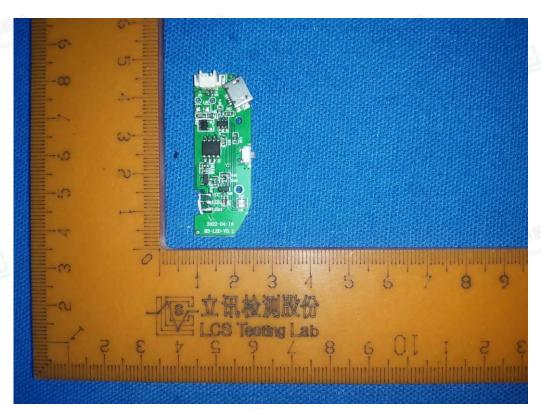


Fig. 9



Fig. 10



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Fig. 11



Fig. 12





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