Shenzhen CTA Testing Technology Co., Ltd.
Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

TEST REPORT

47 CFR FCC Part 15 Subpart B (Class B)

Radio Frequency Devices – Unintentional Radiators – Limits and methods of measurement

ANSI C63.4: 2014

American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

Report Reference No.....:	**CTA24111300601**
FCC ID.....	**2BL4G-57025-57026**
Compiled by (position+printed name+signature)..:	File administrators Xudong Zhang
Supervised by (position+printed name+signature)..:	Project Engineer Zoey Cao
Approved by (position+printed name+signature)..:	RF Manager Eric Wang
Date of issue.....:	Nov. 18, 2024

Testing Laboratory Name .....:	**Shenzhen CTA Testing Technology Co., Ltd.**
Address.....:	Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name.....:	**Simpl Technology LLC**
Address .....:	2322 Boxwood lane Fernandina Beach FL32034

Test specification .....**:**	
Standard .....:	**47 CFR FCC Part 15 Subpart B (Class B)** **ANSI C63.4: 2014**

Equipment description.....:	**Touch Player**
Trade Mark .....:	N/A
Manufacturer .....:	Winkler Industrial Co.,Ltd.
Model/Type reference.....:	57025
List Model .....:	57026
Ratings .....:	DC 9.0V From battery and AC 9.0V From external circuit
Result.....:	**PASS**

TEST REPORT

Equipment under Test	:	Touch Player
Model /Type	:	57025
Listed Models	:	57026
Applicant	:	**Simpl Technology LLC**
Address	:	2322 Boxwood lane Fernandina Beach FL32034
Manufacturer	:	**Winkler Industrial Co.,Ltd.**
Address	:	Flat A, 29/F., Amiata Industrial Building, 58-64 Lei Muk Road, Kwai Chung, New Territories, Hong Kong, China

Test Result:	**PASS**

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.

Contents

1. TEST STANDARDS

The tests were performed according to following standards:

47 CFR FCC Part 15 Subpart B (Class B) Radio Frequency Devices – Unintentional Radiators – Limits and methods of measurement
ANSI C63.4: 2014 American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	Nov. 13, 2024
Testing commenced on	:	Nov. 13, 2024
Testing concluded on	:	Nov. 18, 2024

2.2. Product Description

Product Name:	Touch Player
Model/Type reference:	57025
Power supply:	DC 9.0V From Battery and AC 9.0V From external circuit
Adapter information:	Model: MKA-480901000 Input: AC 120V 60Hz Output: AC 9V 1000mA

2.3. EUT operation mode

As the function of the EUT, test mode selected to test as below to conform this standard:

Operation mode	Description
Mode 1	Keep the EUT in FM receiving mode
Mode 2	Keep the EUT in AM receiving mode
Mode 3	The EUT connects the USB flash drive to play music

Note: We tested all Modes and recorded the worst case as follow:

Test item	Test mode
Conducted emission	Mode 3
Radiated emission	Mode 3

2.4. EUT configuration

The following peripheral devices (Supplied by the testing Lab) and interface cables were connected during the measurement:

Item	Name	Description	Model	Certificate	Note
1Note1	/	/	/	/	/
2Note1	/	/	/	/	/

Note1: This Auxiliary used during the test is provided by the test laboratory.

2.5. Modifications

No modifications were implemented to meet testing criteria

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,Fuhai Street, Bao'an District, Shenzhen, China

3.2. Test Facility

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

FCC-Registration No.: 517856 Designation Number: CN1318
Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01
Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	15-35 ° C
Lative Humidity	30-60 %
Air Pressure	950-1050mbar

3.4. Test Description

Emission Measurement		
Radiated Emission	47 CFR FCC Part 15 Subpart B Class B ANSI C63.4 2014	PASS
Conducted Emission	47 CFR FCC Part 15 Subpart B Class B ANSI C63.4 2014	PASS

Remark:1. N/A means "not applicable".
2.The measurement uncertainty is not included in the test result.

3.5. 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 TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology Co., Ltd. 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.
Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd. :

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MHz	3.02 dB	(1)
Radiated Emission	30~1000MHz	4.06 dB	(1)

Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Output Peak power	30MHz~18GHz	0.55 dB	(1)
Power spectral density	/	0.57 dB	(1)
Spectrum bandwidth	/	1.1%	(1)
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.6. Equipments Used during the Test

Radiated Emission						
Item	Test Equipment	Manufacturer	Model No.	Equipment No.	Last Cal.	Cal.Due
1	Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2023/10/17	2026/10/16
2	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	CTA-306	2024/08/03	2025/08/02
3	Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2023/10/13	2026/10/12
4	Universal Radio Communication	CMW500	R&S	CTA-302	2024/08/03	2025/08/02
5	Band-reject filter	Xi'an Xingbo Technology Co.,Ltd	XBLBQ-DZA66	CTA-410	2024/08/03	2025/08/02
6	Band-reject filter	Xi'an Xingbo Technology Co.,Ltd	XBLBQ-DZA64	CTA-411	2024/08/03	2025/08/02
7	Band-reject filter	Xi'an Xingbo Technology Co.,Ltd	XBLBQ-DZA63	CTA-411	2024/08/03	2025/08/02
8	High-pass filter	Xi'an Xingbo Technology Co.,Ltd	XBLBQ-GTA10	CTA-412	2024/08/03	2025/08/02
9	High-pass filter	Xi'an Xingbo Technology Co.,Ltd	XBLBQ-GTA18	CTA-402	2024/08/03	2025/08/02

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Equipment No.	Last Cal.	Cal.Due
1	EMI Test Receiver	R&S	ESPI	CTA-307	2024/08/03	2025/08/02
2	Artificial Mains	R&S	ENV-216	CTA-308	2024/08/03	2025/08/02
3	Artificial Mains	R&S	ENV-216	CTA-314	2024/08/03	2025/08/02
4	ISN	Schwarzbeck	NTFM8158	CTA-407	2024/08/03	2025/08/02
5	ISN	Schwarzbeck	CAT58158	CTA-408	2024/08/03	2025/08/02
6	ISN	Schwarzbeck	CAT38158	CTA-409	2024/08/03	2025/08/02
7	Universal Radio Communication	R&S	CMW500	CTA-302	2024/08/03	2025/08/02

Test Equipment	Manufacturer	Model No.	Version number	Calibration Date	Calibration Due Date
EMI Test Software	Tonscend	TS®JS32-RE	5.0.0.2	N/A	N/A
EMI Test Software	Tonscend	TS®JS32-CE	5.0.0.1	N/A	N/A

4. TEST CONDITIONS AND RESULTS

4.1. EMISSION

4.1.1. LIMITS OF DISTURBANCE (CLASS B)

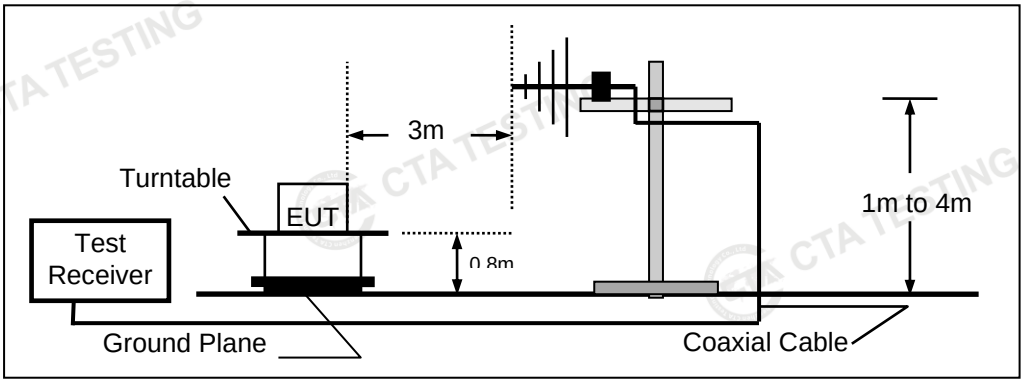
Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dBμV/m)
30 ~ 88	3	40
88~216	3	43.5
216 ~ 960	3	46
Above 960(AV)	3	54
Above 960(PK)	3	74

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

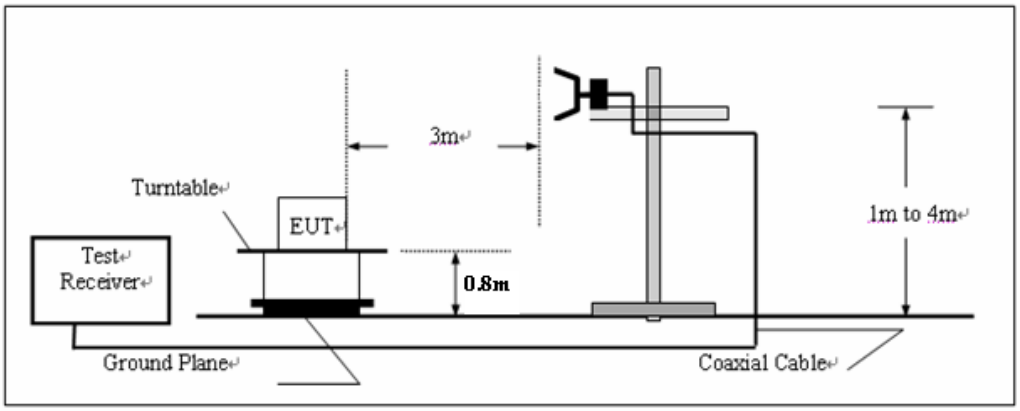
(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

4.1.2. TEST CONFIGURATION

a) Radiated emission test set-up, frequency below 1000MHz:



b) Radiated emission test set-up, frequency above 1000MHz



4.1.3. TEST PROCEDURE

EUT is tested in Semi-Anechoic Chamber. EUT is placed on a nonmetal table which is 0.8 meter above a grounded turntable. The turntable can rotate 360 degrees to determine the azimuth of the maximum emission level. EUT is set 3 meters away from the center of receiving antenna. The antenna can move up and down from 1 to 4 meter to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna are set on the test.

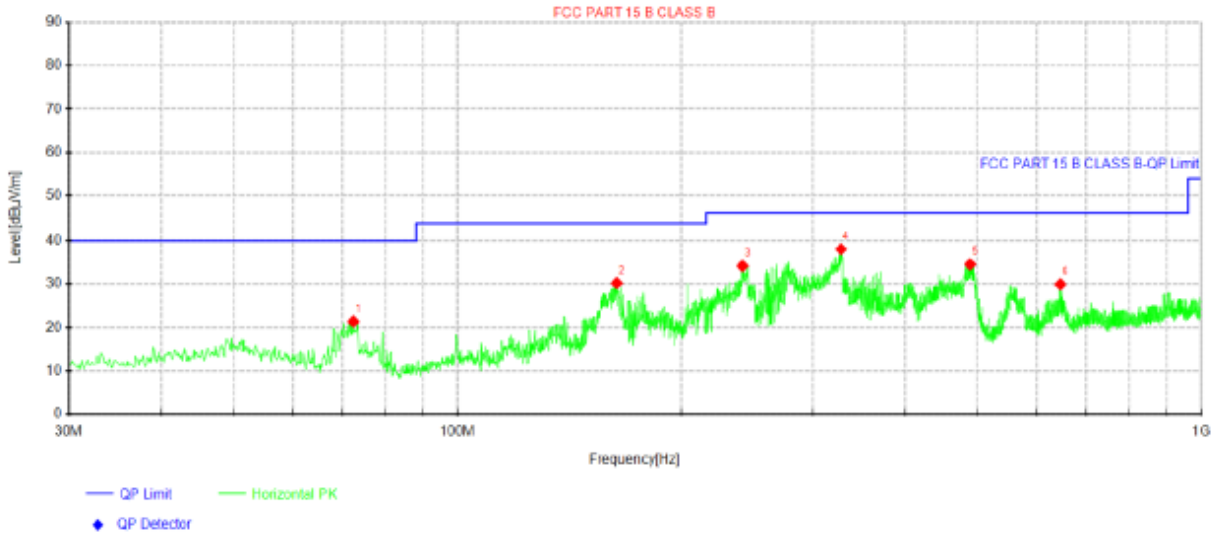
4.1.4. TEST RESULTS

Passed

Note : Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:

Please refer to the below test data:

Polarization:	Horizontal	Test mode:	Mode 3



Suspected Data List

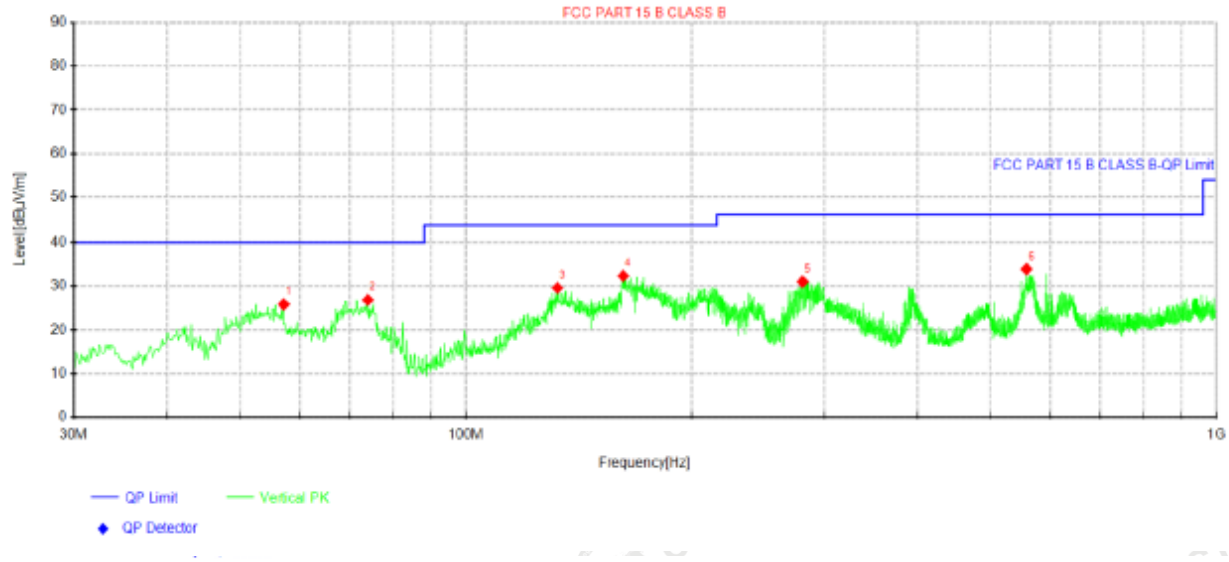
NO.	Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	72.4375	36.73	21.37	-15.36	40.00	18.63	100	350	Horizontal
2	163.738	45.72	30.22	-15.50	43.50	13.28	100	282	Horizontal
3	241.702	46.55	34.24	-12.31	46.00	11.76	100	317	Horizontal
4	327.79	48.97	38.10	-10.87	46.00	7.90	100	317	Horizontal
5	488.931	43.90	34.60	-9.30	46.00	11.40	100	130	Horizontal
6	646.677	35.40	29.95	-5.45	46.00	16.05	100	118	Horizontal

Note:1).Level(dBµV/m)= Reading (dBµV/m)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dBµV/m) - Level (dBµV/m)

Polarization:	Vertical	Test mode:	Mode 3

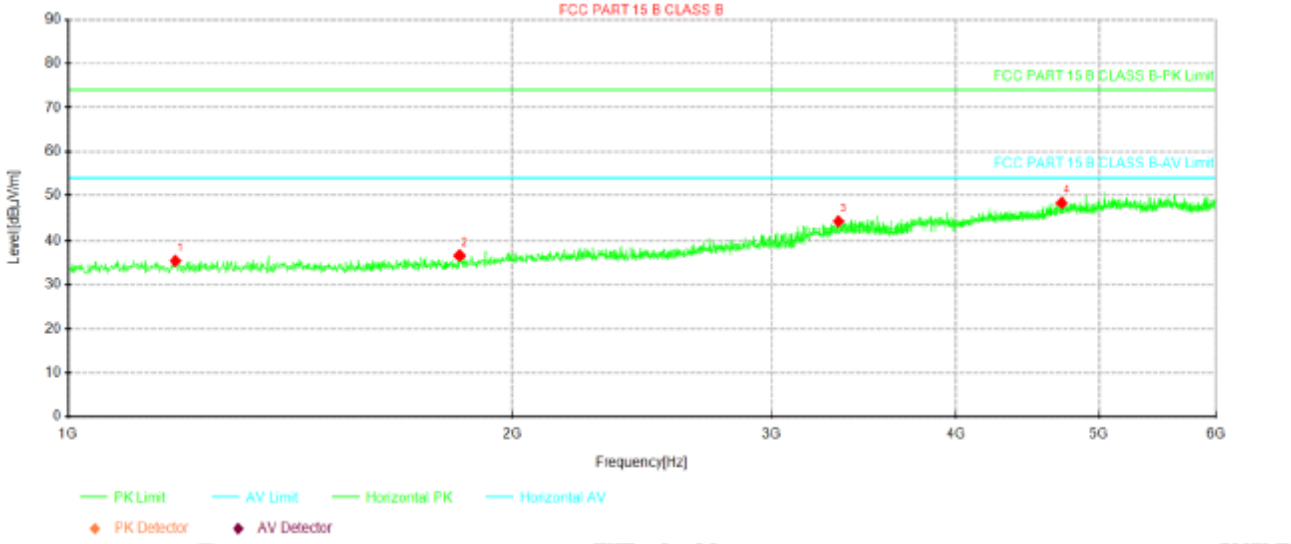


Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	57.16	37.95	25.88	-12.07	40.00	14.12	100	82	Vertical
2	74.0138	42.67	26.87	-15.80	40.00	13.13	100	104	Vertical
3	132.456	45.90	29.62	-16.28	43.50	13.88	100	208	Vertical
4	162.041	47.95	32.38	-15.57	43.50	11.12	100	220	Vertical
5	280.987	42.45	31.05	-11.40	46.00	14.95	100	23	Vertical
6	558.771	42.27	33.95	-8.32	46.00	12.05	100	220	Vertical

Note:1).Result (dBµV/m)= Reading (dBµV/m)+ Factor (dB/m)
2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)
3). Margin(dB) = Limit (dBµV/m) - Level (dBµV/m)

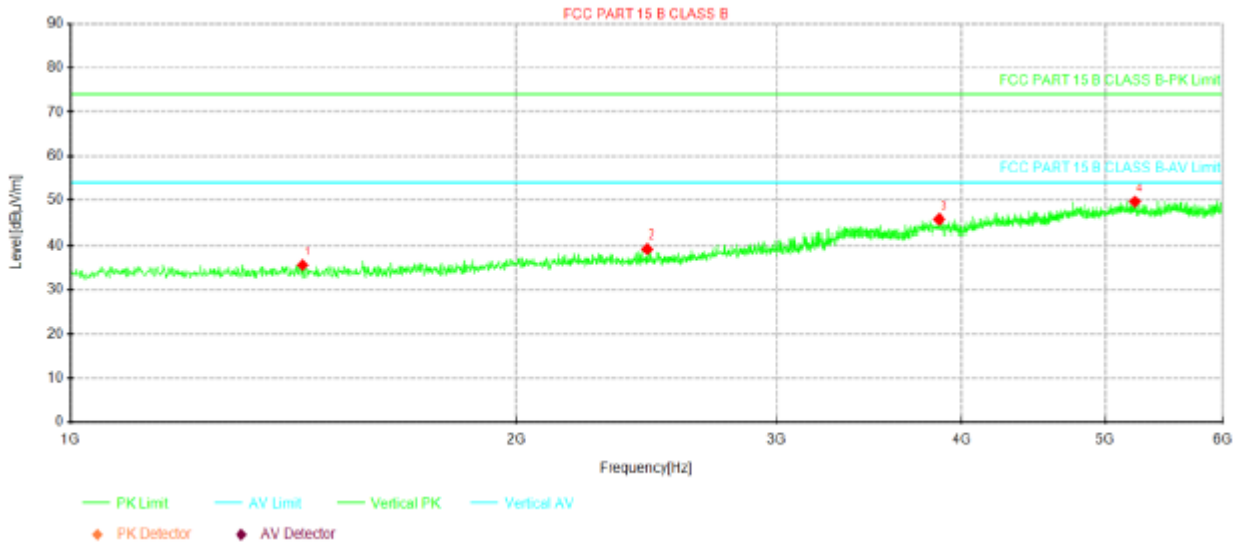
Polarization:	Horizontal	Test mode:	Mode 3



Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1182.5	100.52	35.48	-65.04	74.00	38.52	100	330	Horizontal
2	1842.5	100.59	36.68	-63.91	74.00	37.32	100	300	Horizontal
3	3328.75	104.50	44.05	-60.45	74.00	29.95	100	80	Horizontal
4	4717.5	104.12	48.23	-55.89	74.00	25.77	100	110	Horizontal

Polarization:	Vertical	Test mode:	Mode 3



Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1435	100.30	35.65	-64.65	74.00	38.35	100	120	Vertical
2	2452.5	101.35	39.27	-62.08	74.00	34.73	100	0	Vertical
3	3862.5	104.93	45.60	-59.33	74.00	28.40	100	270	Vertical
4	5236.25	104.38	49.62	-54.76	74.00	24.38	100	50	Vertical

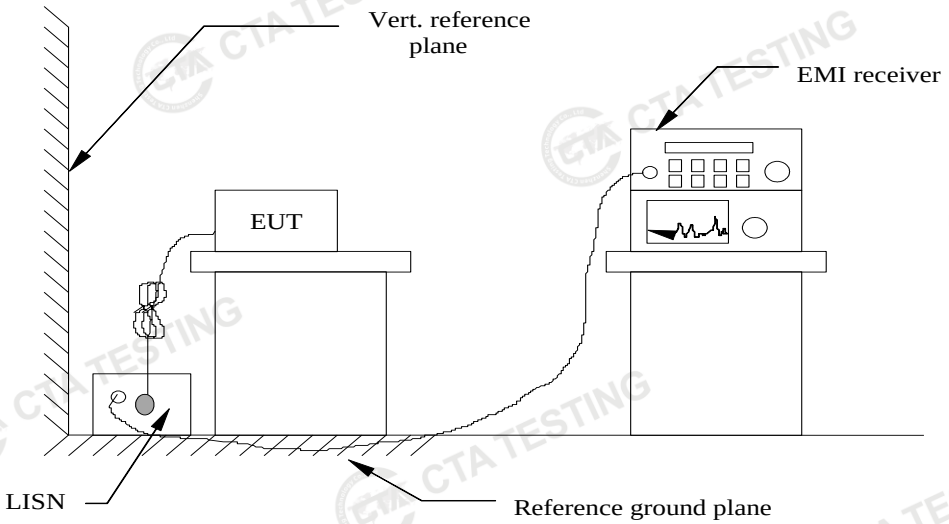
4.2. Conducted Emission

4.2.1. LIMITS OF DISTURBANCE (CLASS B)

Frequency Range (MHz)	Limits (dBuV)	
	Quasi-Peak	Average
0.150～0.500	66~56	56~46
0.500～5.000	56	46
5.000~30.000	60	50

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

4.2.2. TEST CONFIGURATION



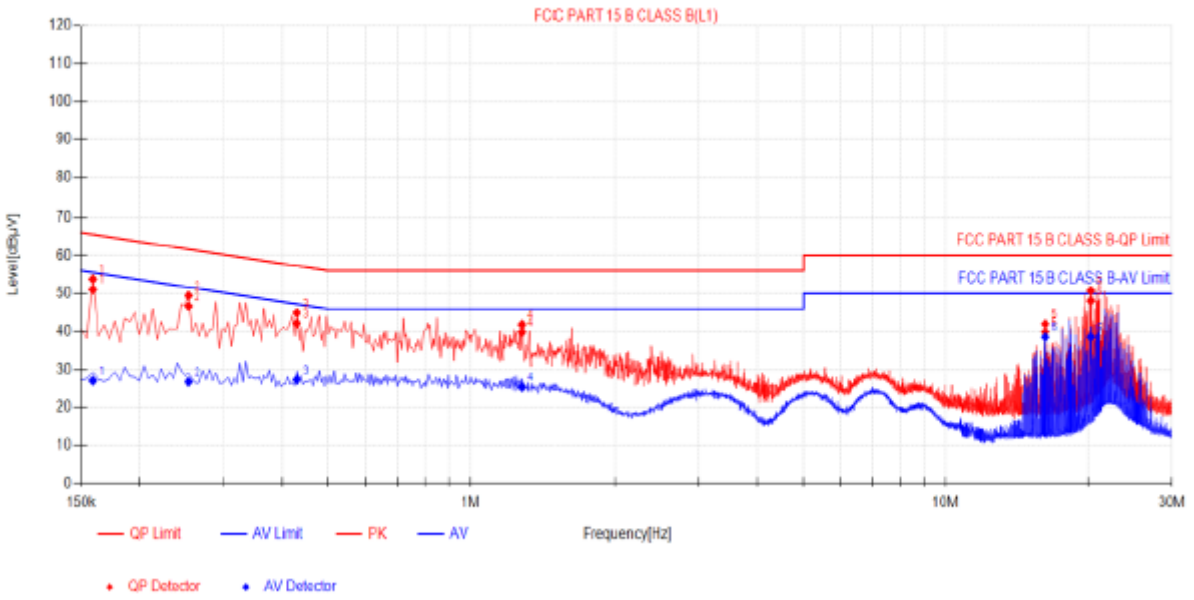
4.2.3. TEST PROCEDURE

EUT is placed on a nonmetal table which is 0.8 meter (or 0.1 meter for floor-stood equipments) above the grounded reference plane. Connect the power line of the EUT to the LISN. Voltage of the power supply is varied over a range of 0.9 to 1.1 times of the rated voltage in order to check whether the level of disturbance varies considerably with the supply voltage at the selected frequency about 160KHz. Perform an initial measurement on each line with peak detector to identify the frequencies where the maximum disturbances may occur. Then measure and record the maximum disturbances with quasi-peak and average detector.

4.2.4. TEST RESULTS

Note: Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:

Line:	L	Test mode:	Mode 3

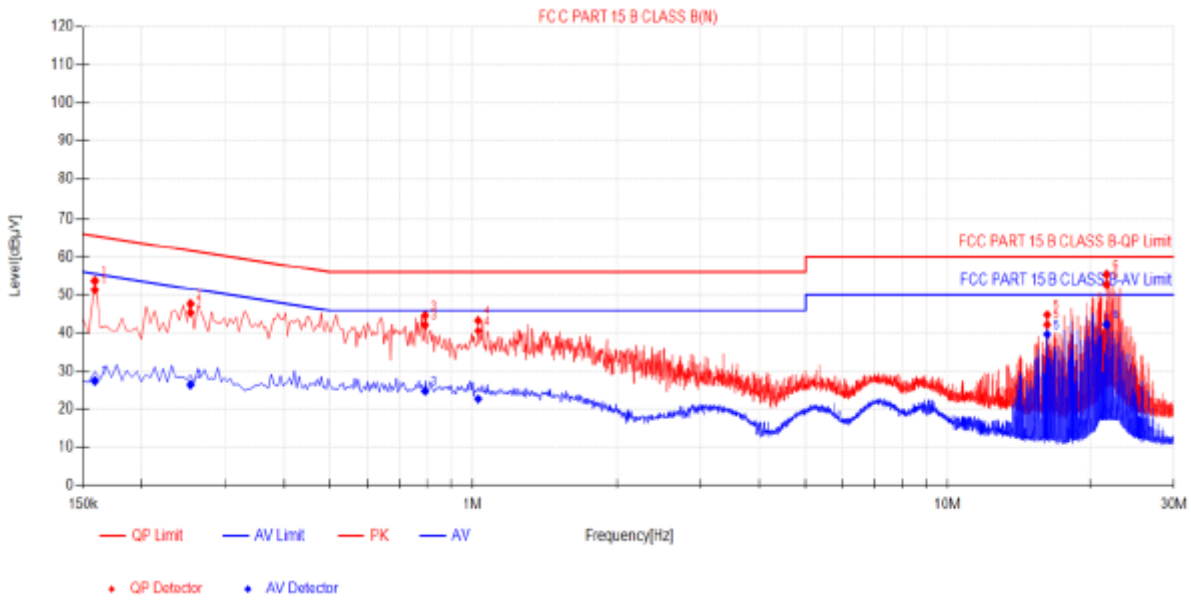


Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading[dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.159	9.91	41.13	51.04	65.52	14.48	17.15	27.06	55.52	28.46	PASS
2	0.2535	9.93	36.78	46.71	61.64	14.93	16.84	26.77	51.64	24.87	PASS
3	0.429	9.91	32.26	42.17	57.27	15.10	17.40	27.31	47.27	19.96	PASS
4	1.284	9.90	29.89	39.79	56.00	16.21	15.57	25.47	46.00	20.53	PASS
5	16.2285	10.33	29.51	39.84	60.00	20.16	28.19	38.52	50.00	11.48	PASS
6	20.2605	10.43	37.70	48.13	60.00	11.87	28.13	38.56	50.00	11.44	PASS

Note:1).Result (dBµV/m)= Reading (dBµV/m)+ Factor (dB/m)
2). Factor(dB/m)=Cable loss (dB) + LISN Factor (dB)

Line:	N	Test mode:	Mode 3

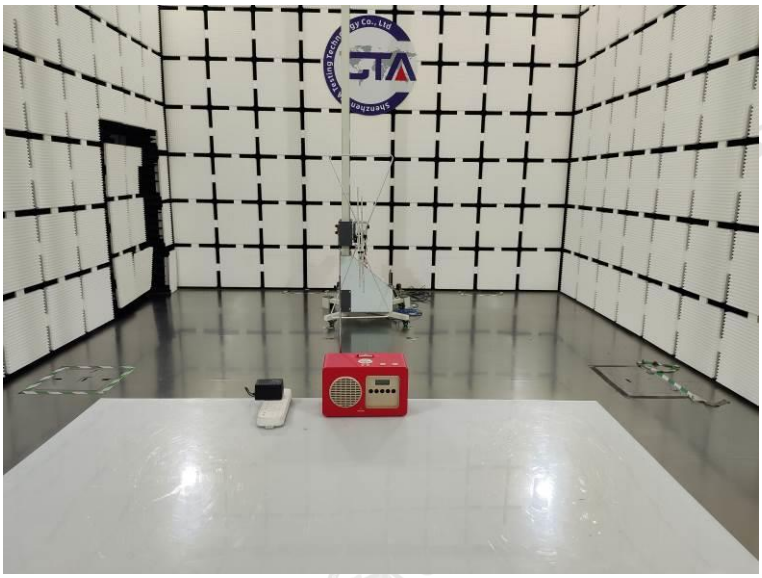


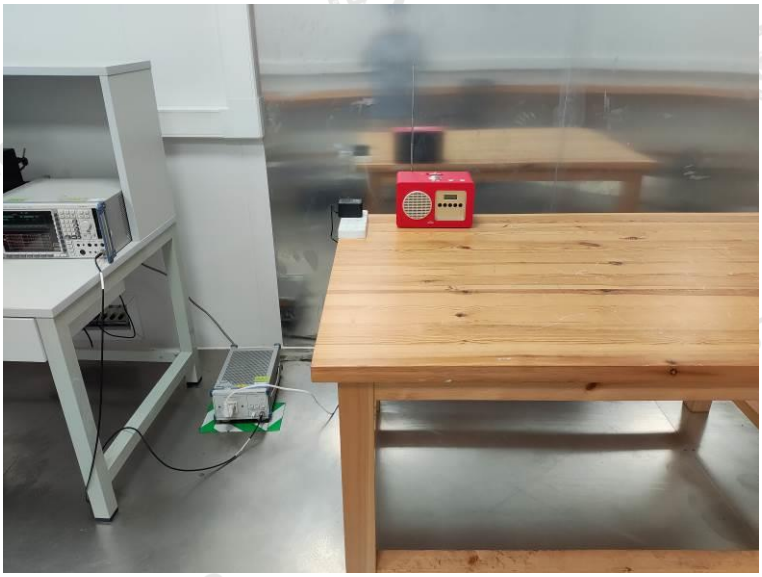
Final Data List

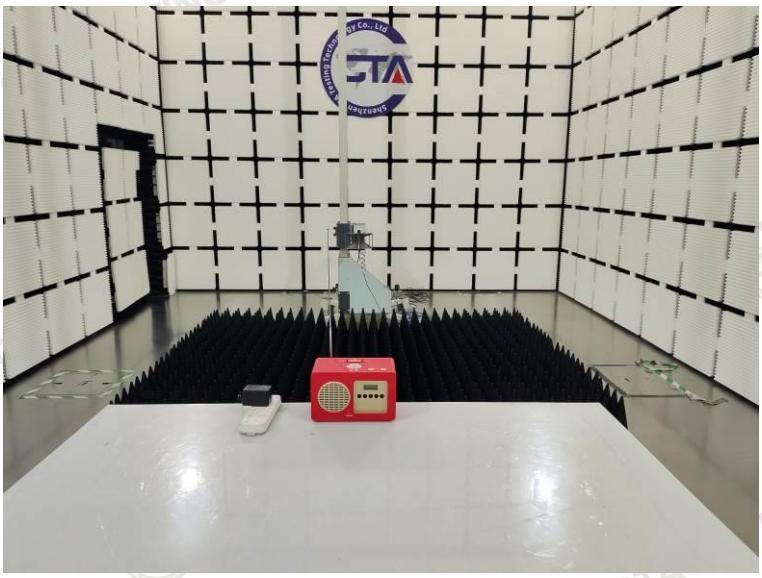
NO.	Freq. [MHz]	Factor [dB]	QP Reading[dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.159	10.03	41.32	51.35	65.52	14.17	17.36	27.39	55.52	28.13	PASS
2	0.2535	10.01	35.34	45.35	61.64	16.29	16.43	26.44	51.64	25.20	PASS
3	0.7935	10.14	32.03	42.17	56.00	13.83	14.68	24.82	46.00	21.18	PASS
4	1.0275	10.13	30.45	40.58	56.00	15.42	12.52	22.65	46.00	23.35	PASS
5	16.2285	10.45	31.80	42.25	60.00	17.75	29.15	39.60	50.00	10.40	PASS
6	21.6645	10.62	42.19	52.81	60.00	7.19	31.69	42.31	50.00	7.69	PASS

Note:1).Result (dBµV/m)= Reading (dBµV/m)+ Factor (dB/m)
2). Factor(dB/m)=Cable loss (dB) + LISN Factor (dB)

5. Test Set-up Photos of the EUT

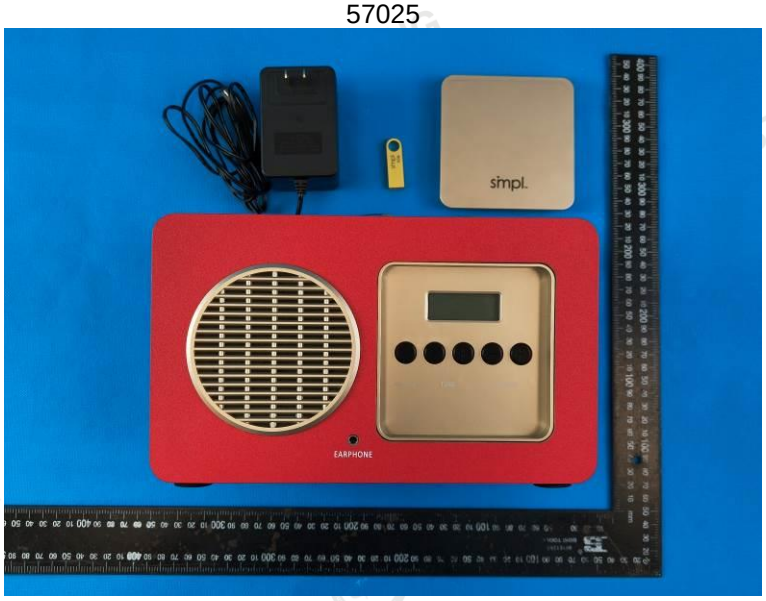


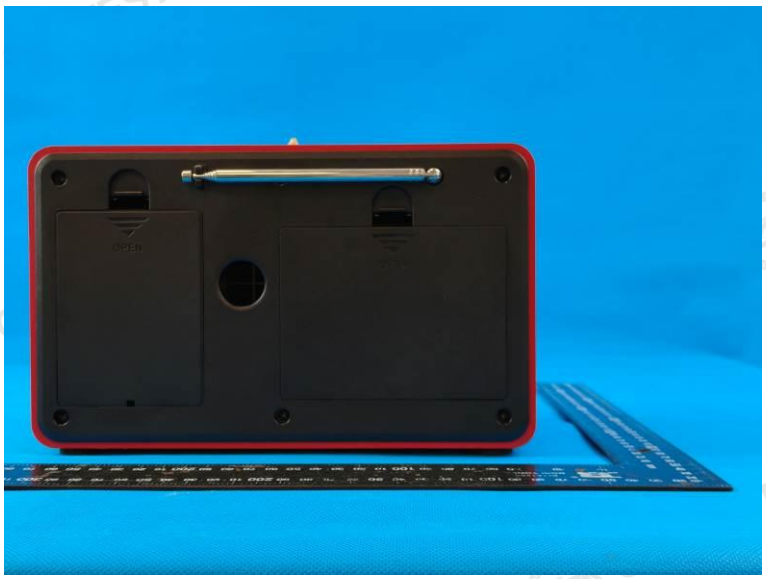


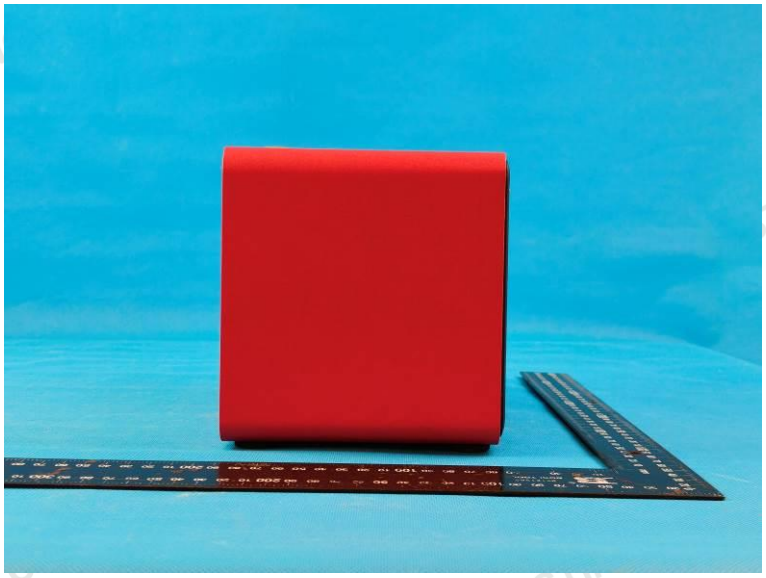


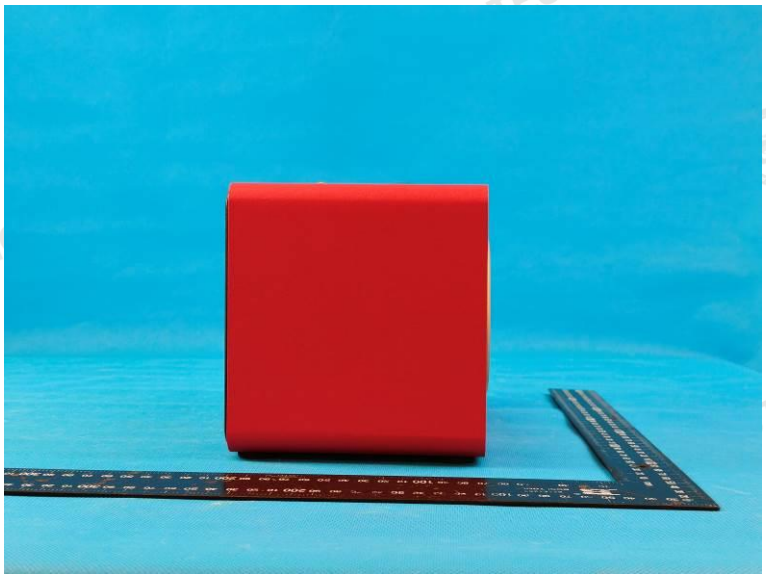
6. External and Internal Photos of the EUT

57025

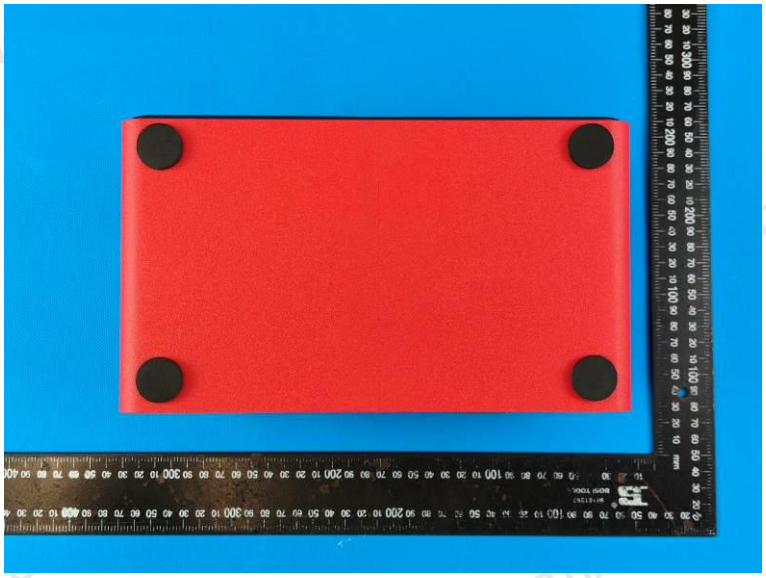


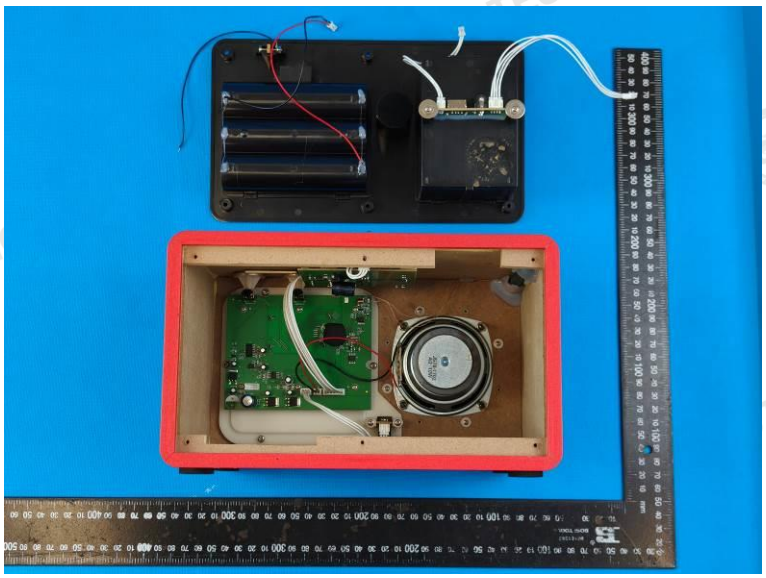


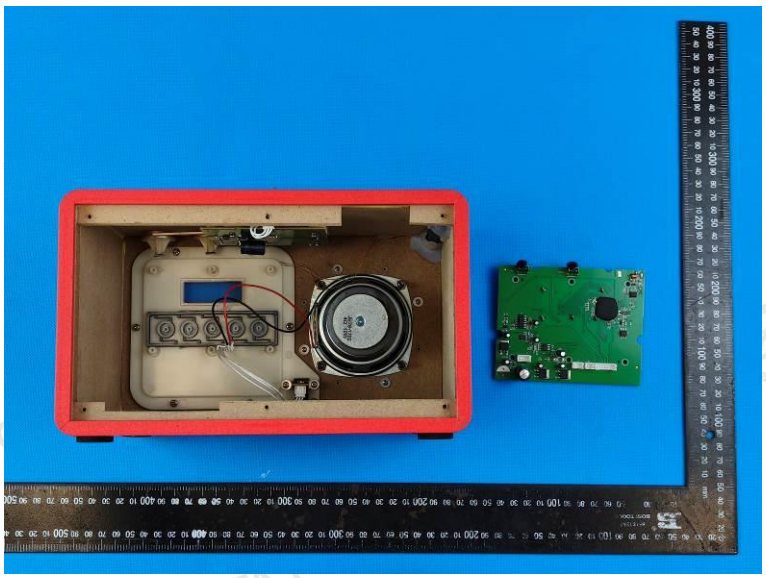


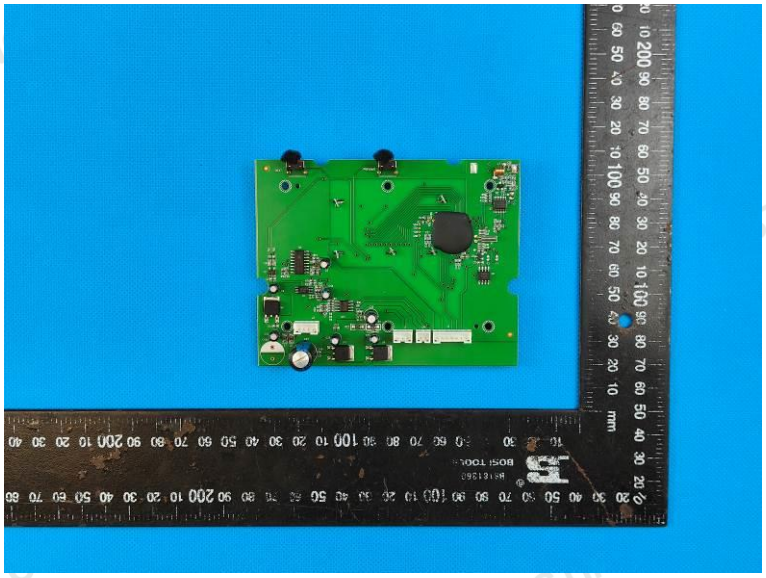


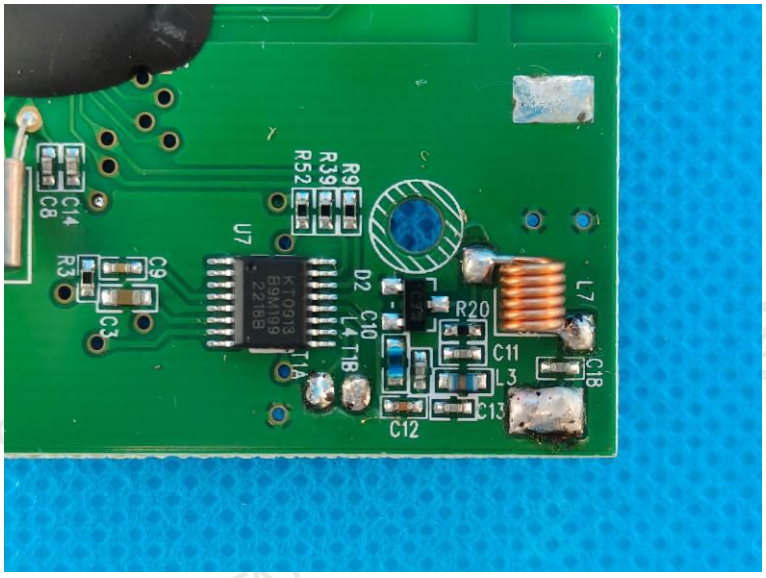

RADIO
MUSIC
ON
OFF

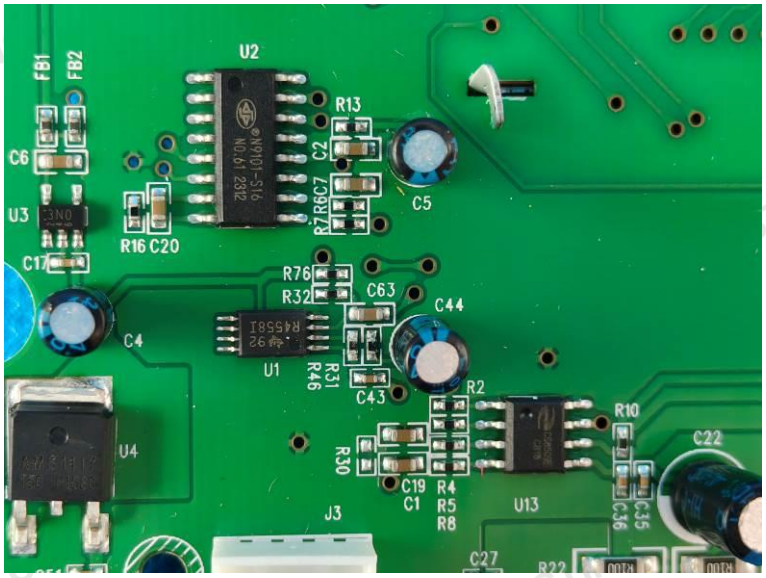









R9
R39
R52
C14
C8
U7
C9
R3
C3
D2
C10
L4
T1B
T1A
R20
C11
L3
C13
C12
L7
C18

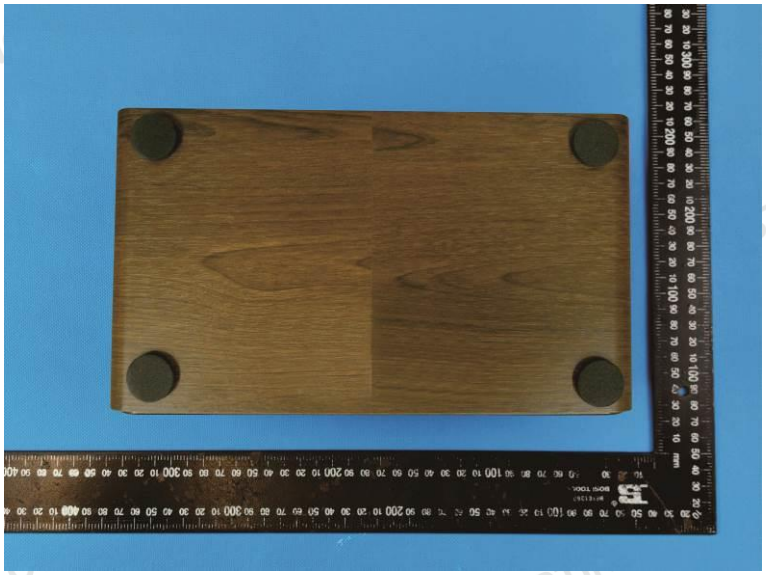

U2
FB1
FB2
R13
C6
C2
C5
U3
R7
R6
C7
R16
C20
C17
R76
R32
C63
C44
C4
U1
R46
R31
C43
R2
R10
C22
U4
R30
C19
C1
R4
R5
R8
U13
J3
C27

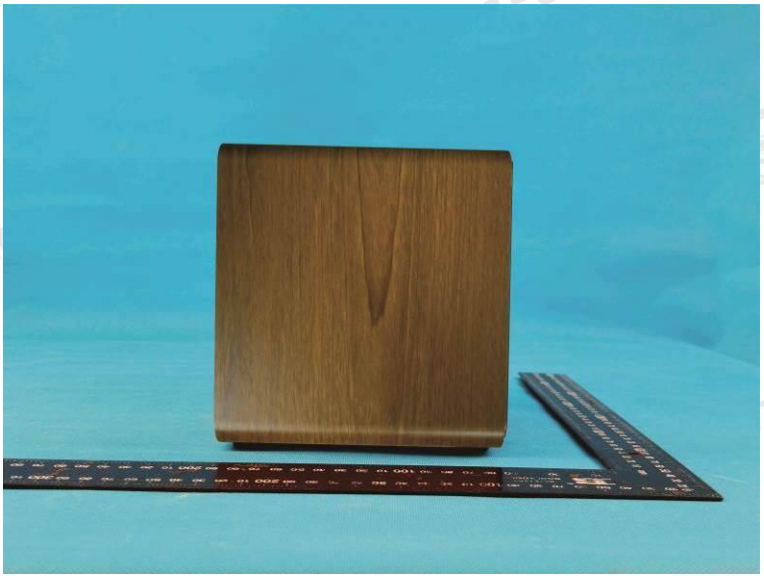

simpl
AC/AC ADAPTOR
CLASS 2 ADAPTOR
MODEL:MKA-480901000
INPUT:120V AC 60Hz 0.3A
OUTPUT: 9VAC 1000mA
EFFICIENCY LEVEL:
3G67
E149533
LISTED
THIS UNIT SHALL BE CORRECTLY ORIENTATED IN A VERTICAL OR FLOOR MOUNT POSTION
2311
MADE IN CHINA

57026


EARPHONE


RADIO
MUSIC
ON
OFF





.....End of Report.....