



■ Report No.: DDT-R17Q0717-9E2

■ Issued Date: Jul. 25, 2017

FCC AND IC CERTIFICATION TEST REPORT FOR

Applicant	:	ION Audio, LLC
Address	:	200 Scenic View Drive, Cumberland, RI 02864 U.S.A.
Equipment under Test	:	Water Resistant Portable Speaker System
Model No.	:	BLOCK ROCKER SPORT; PATHFINDER
Trade Mark	:	ION
FCC ID	:	2AB3E-IPA79A
IC	:	10541A-IPA79A
Manufacturer	:	ION Audio, LLC
Address	:	200 Scenic View Drive, Cumberland, RI 02864 U.S.A.

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

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REPORT

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TEST REPORT DECLARE

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Address	:	200 Scenic View Drive, Cumberland, RI 02864 U.S.A.

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C, 2015, RSS-247 Issue 2 Feb 2017.

Test procedure used:

ANSI C63.10:2013, ANSI C63.4:2014, RSS-Gen Issue 4, Nov. 2014.

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC&IC standards.

Report No.:	DDT-R17Q0717-9E2		
Date of Receipt:	Jul. 17, 2017	Date of Test:	Jul. 17, 2017-Jul. 24, 2017

Prepared By:

Damon Hu

Damon Hu/Engineer

Approved By:



Kevin Feng/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

1. Summary of test results

Description of Test Item	Standard	Results
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10 :2013 ANSI C63.4:2014 RSS-Gen Issue 4 8.9 RSS-Gen Issue 4 8.10	PASS
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.10 :2013 ANSI C63.4:2014 RSS-Gen Issue 4 8.8	PASS

Note 1: N/A is an abbreviation for Not Applicable.
Note 2: There are two batteries add in this report base on the original report: DDT-R16Q1222-6E2, This change don't influence the RF performance, so power line conducted and radiated emission(below 1GHz) were tested and recorded in this report only.

2. General test information

2.1. Description of EUT

EUT* Name	: Water Resistant Portable Speaker System
Model Number	: BLOCK ROCKER SPORT; PATHFINDER
Model Number	: All models are identical, only the model number and appearance are different; therefore the test performed on the model BLOCK ROCKER SPORT.
Power supply	: AC 100-240V, 50/60Hz or DC 12V from built-in battery
Radio Specification	: Bluetooth V4.0 without BLE
Operation frequency	: 2402MHz -2480MHz
Modulation	: GFSK, $\pi/4$ QPSK, 8-DPSK
Data rate	: 1Mbps, 2Mbps, 3Mbps
Antenna Type	: Built-in undetachable dipole antenna, maximum PK gain:2.0dBi
Sample Type	: Series production

Note 1: EUT is the ab. of equipment under test.

Note 2: EUT can powered from AC 120V/60Hz and built-in battery, according exploration test, when powered from AC 120V/60Hz will have worse EMC performance, so all the final tests were performed with AC 120V/60Hz.

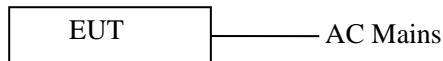
2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Parameter	Remark
Built-in Switching Power Supply	DONGGUAN ROYAL ELECTRONICS CO., LTD	BI67-160410-O3	Input:90-264VAC 50/60Hz, output: DC 16.0V, 4.1A	Original certified
Built-in Switching Power Supply	Dongguan Guanjin Electronics Technology Co., Ltd	K65P160410	Input:100-240VA C 50/60Hz, output: DC 16.0V, 4.1A	
Built-in Battery	JIAHUA BATTERY (RUIJIN) CO., LTD	PL7-12	12V7.0Ah/20hr	
Built-in Battery	SHENZHEN RITAR POWER CO., LTD	RT1270	12V7.0Ah	
Built-in Battery	SHENZHEN LEOCH BATTERY TECHNOLOGY CO., LTD.	DJW12-9.0	12V9.0AH	Add new additional Battery
Built-in Battery	SHENZHEN RITAR POWER CO., LTD.	RT1290	12V9.0AH	Add new additional Battery

2.3. Assistant equipment used for test

Description of Assistant equipment	Manufacturer	Model number	EMC Compliance	Other
/	/	/	/	/

2.4. Block diagram of EUT configuration for test



The test software was used to control EUT work in Continuous TX mode

NOTE: EUT with new additional battery DJW12-9.0 and RT1290 all have been tested for conducted emission (0.15MHz-30MHz) and radiated emission (30MHz-1GHz) , and only worse case is reported

2.5. Deviations of test standard

No Deviation.

2.6. Test environment conditions

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

Temperature range:	21-25 °C
Humidity range:	40-75%
Pressure range:	86-106kPa

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong

Province, China, 523808 Tel: +86-0769-89201699 <http://www.dgddt.com>

CNAS Accreditation No. L6451; A2LA Accreditation No. 3870.01

Designation Number: CN1182; Test Firm Registration Number: 540522

Industry Canada site registration number: 10288A-1

3. Equipment used during test

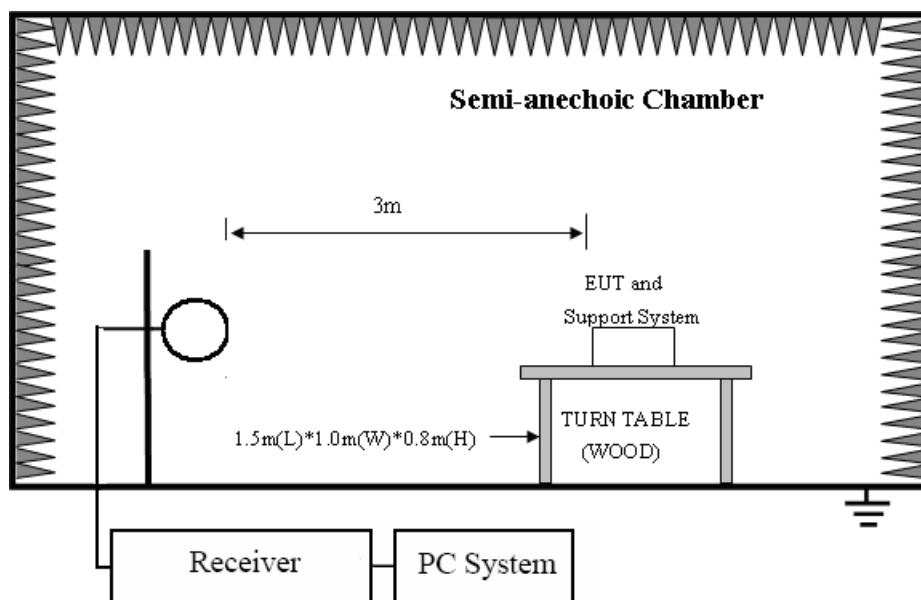
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Radiated Emission Test					
EMI Test Receiver	R&S	ESU8	100316	Oct. 16, 2016	1 Year
Spectrum analyzer	R&S	FSU26	1166.1660.26	Oct. 16, 2016	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB9163	9163-462	Oct. 27, 2016	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Oct. 16, 2016	1 Year
Double Ridged Horn Antenna	R&S	HF907	100276	Oct. 12, 2016	1 Year
Pre-amplifier	A.H.	PAM-0118	360	Oct. 16, 2016	1 Year
RF Cable	HUBSER	CP-X2	W11.03	Oct. 16, 2016	1 Year
RF Cable	HUBSER	CP-X1	W12.02	Oct. 16, 2016	1 Year

MI Cable	HUBSER	C10-01-01-1M	1091629	Oct. 16, 2016	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A
Power Line Conducted Emissions Test					
Test Receiver	R&S	ESU8	100316	Oct. 16, 2016	1 Year
LISN 1	R&S	ENV216	101109	Oct. 16, 2016	1 Year
LISN 2	R&S	ESH2-Z5	100309	Oct. 16, 2016	1 Year
Pulse Limiter	R&S	ESH3-Z2	101242	Oct. 16, 2016	1 Year
CE Cable 1	HUBSER	ESU8/RF2	W10.01	Oct. 16, 2016	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A

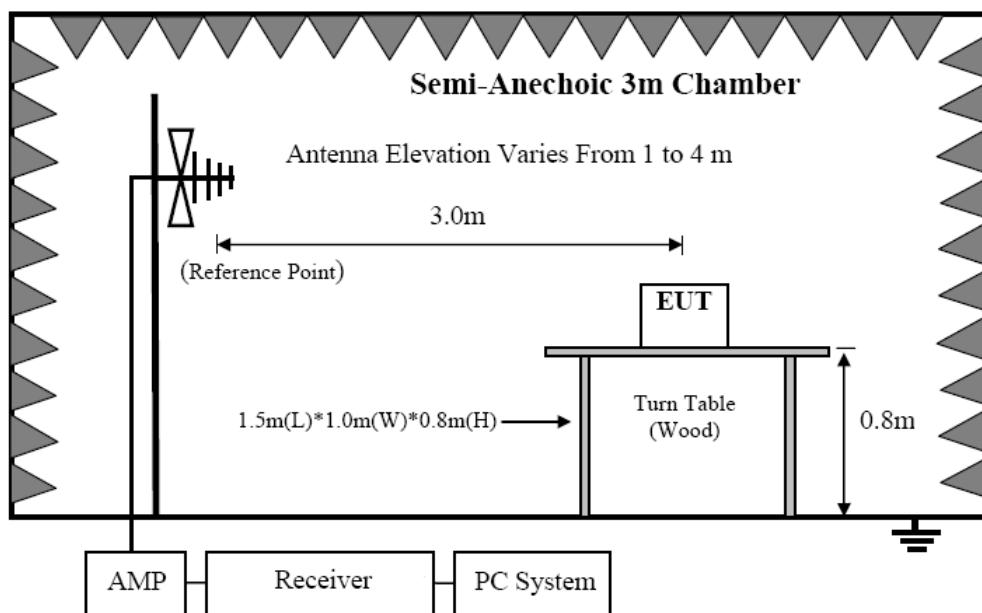
4. Radiated emission

4.1. Block diagram of test setup

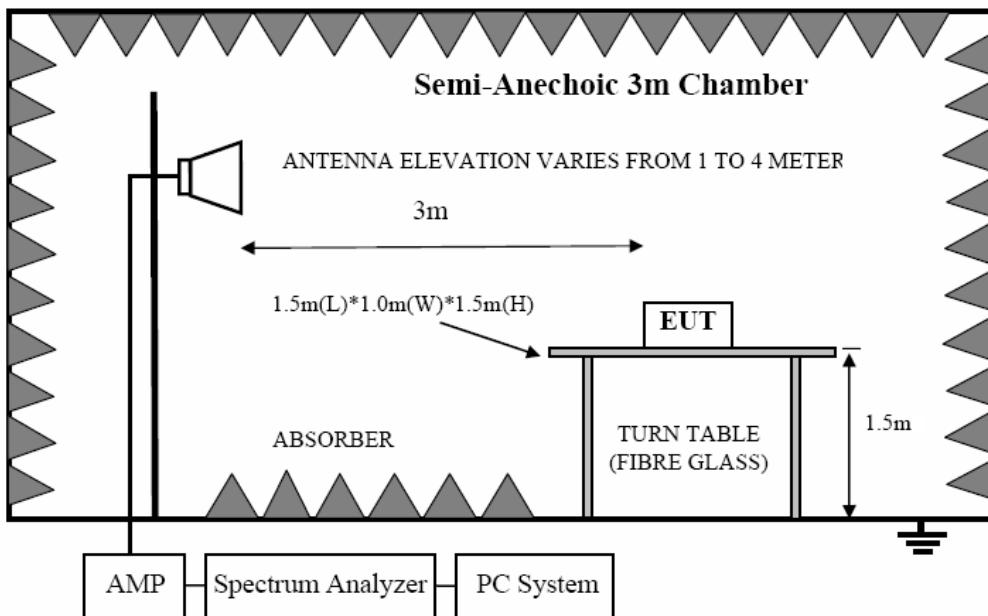
In 3m Anechoic Chamber Test Setup Diagram for 9KHz-30MHz



In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

4.2. Limit

9.2.1 FCC 15.205 Restricted frequency band

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)

9.2.2 FCC 15.209 Limit.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μ V/m	dB(μ V)/m
0.009 ~ 0.490	300	2400/F(KHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(KHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0

960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μ V)/m (Peak) 54.0 dB(μ V)/m (Average)	

Note: (1)The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90KHz, 110-490KHz and above 1000MHz.Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3m}(\text{dBuV/m}) = \text{Limit}_{30m}(\text{dBuV/m}) + 40\log(30m/3m)$$

9.2.3 Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

4.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 150 cm above the ground plane inside a semi-anechoic chamber.
- (2) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used
9KHz-30MHz	Active Loop antenna
30MHz-1GHz	Trilog Broadband Antenna
1GHz-18GHz	Double Ridged Horn Antenna(1GHz-18GHz)
18GHz-40GHz	Horn Antenna(18GHz-40GHz)

According ANSI C63.10:2013 clause 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

- (3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9KHz to 25GHz:

- (a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's fixed 1m above ground.)
- (b) Change work frequency or channel of device if practicable.
- (c) Change modulation type of device if practicable.

- (d) Change power supply range from 85% to 115% of the rated supply voltage
- (e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18GHz to 25GHz, so below final test was performed with frequency range from 9KHz to 18GHz.

- (4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 2013 on Radiated Emission test.
- (5) The emissions from 9KHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90KHz, 110-490KHz, for emissions from 9KHz-90KHz, 110KHz-490KHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.
- (6) The emissions from 9KHz to 1GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9KHz-150KHz	200Hz
150KHz-30MHz	9KHz
30MHz-1GHz	120KHz

- (7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RMS detector RBW 1MHz VBW 3MHz for Average measure(according ANSI C63.10:2013 clause 4.2.3.2.3 procedure for average measure).

- (8) X axis, Y axis, Z axis are tested, and worse setup X axis is reported.

4.4. Test result

PASS. (See below detailed test result)

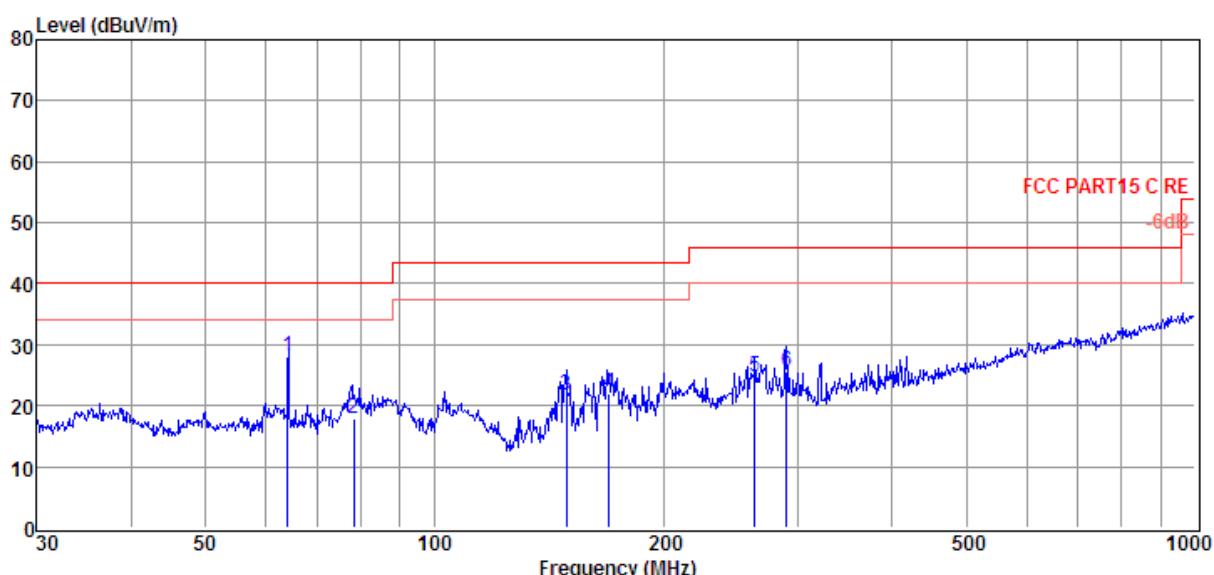
Radiated Emission test (below 1GHz)

Note: only recorded the worst data in the report.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# **Report Path** : D:\2017 RE1# Report Data\17Q0717-9\RE.EM6
Test Date : 2017-07-24 **Tested By** : Jerry
EUT : Water Resistant Portable Speaker System **Model Number** : BLOCK ROCKER SPORT
Power Supply : AC 120V/60Hz **Test Mode** : Tx mode
Condition : Temp:24.5°C,Humi:55%,
Press:100.1kPa **Antenna/Distance** : 2016 VULB9163 1#/3m/HORIZONTAL
Memo : Built-in battery: 12V9.0AH

Data: 1



Item (Mark)	Freq. (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Over Limit (dB)	Detector	Polarization
1	64.20	14.14	9.84	4.01	27.99	40.00	-12.01	QP	HORIZONTAL
2	78.41	6.64	6.98	4.13	17.75	40.00	-22.25	QP	HORIZONTAL
3	148.96	9.74	7.48	4.59	21.81	43.50	-21.69	QP	HORIZONTAL
4	169.60	8.88	8.38	4.72	21.98	43.50	-21.52	QP	HORIZONTAL
5	263.82	7.05	12.55	5.21	24.81	46.00	-21.19	QP	HORIZONTAL
6	290.02	6.82	13.50	5.33	25.65	46.00	-20.35	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

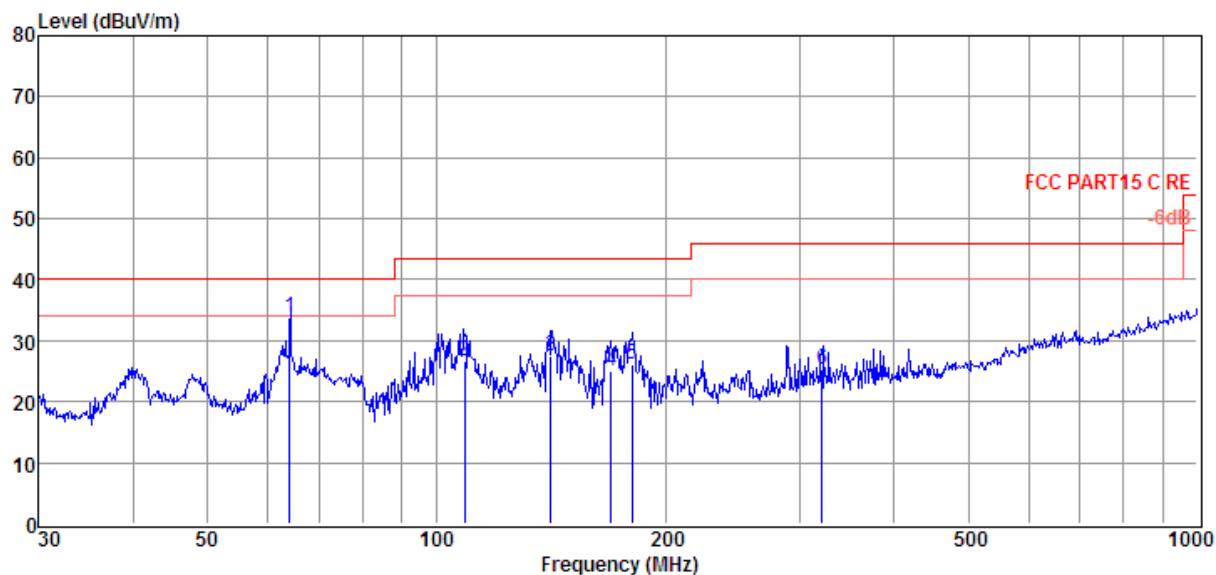
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# D:\2017 RE1# Report Data\17Q0717-9\RE.EM6
Test Date : 2017-07-24 **Tested By** : Jerry
EUT : Water Resistant Portable Speaker System **Model Number** : BLOCK ROCKER SPORT
Power Supply : AC 120V/60Hz **Test Mode** : Tx mode
Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa **Antenna/Distance** : 2016 VULB9163 1#/3m/VERTICAL
Memo : Built-in battery: 12V9.0AH

Data: 2

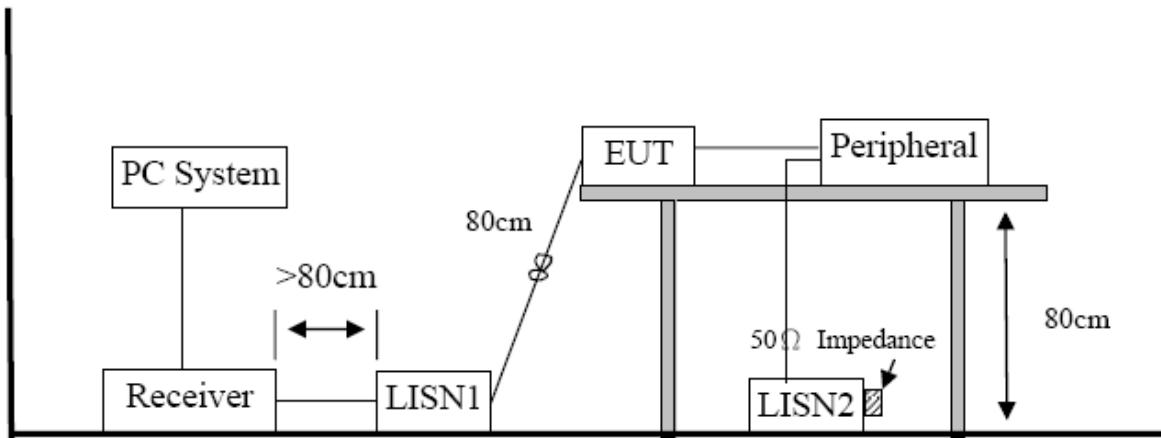


Item (Mark)	Freq. (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Over Limit (dB)	Detector	Polarization
1	64.20	20.00	9.84	4.01	33.85	40.00	-6.15	QP	VERTICAL
2	109.03	11.22	11.11	4.35	26.68	43.50	-16.82	QP	VERTICAL
3	141.33	15.61	7.40	4.55	27.56	43.50	-15.94	QP	VERTICAL
4	169.60	11.87	8.38	4.72	24.97	43.50	-18.53	QP	VERTICAL
5	180.65	12.12	9.28	4.79	26.19	43.50	-17.31	QP	VERTICAL
6	321.06	6.19	13.72	5.47	25.38	46.00	-20.62	QP	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

5. Power Line Conducted Emission

5.1. Block diagram of test setup



5.2. Power Line Conducted Emission Limits(Class B)

Frequency		Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz	~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz	~ 5MHz	56	46
5MHz	~ 30MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

5.3. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 3 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 KHz.

5.4. Test Result

PASS. (See below detailed test result)

Note 1: All emissions not reported below are too low against the prescribed limits.

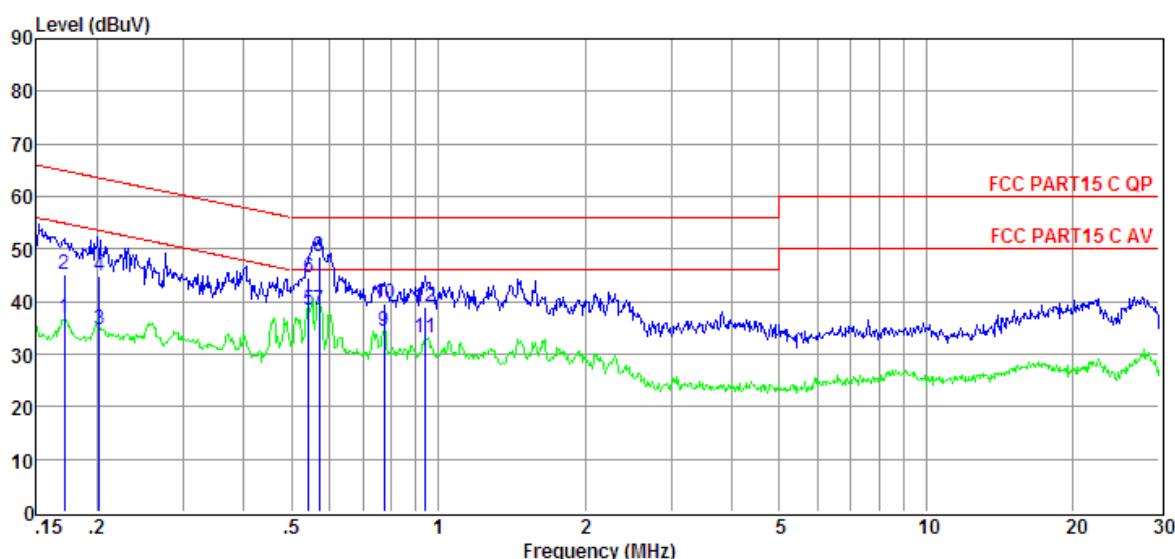
Note 2: “ ” means Peak detection; “ ” means Average detection

Note 3: only recorded the worst data in the report.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room E:\2017 CE report data\17Q0717-9\CE.EM6
Test Date : 2017-07-24 **Tested By** : Jerry
EUT : Water Resistant Portable Speaker System **Model Number** : BLOCK ROCKER SPORT
Power Supply : AC 120V/60Hz **Test Mode** : TX mode
Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa **LISN** : 2016 ENV216/LINE
Memo : Built-in battery: 12V9.0AH

Data: 2



Item (Mark)	Freq. (MHz)	Read Level (dB μ V)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dB μ V)	Limit Line (dB μ V)	Over Limit (dB)	Detector	Phase
1	0.17	17.17	9.61	0.02	9.86	36.66	54.90	-18.24	Average	LINE
2	0.17	25.52	9.61	0.02	9.86	45.01	64.90	-19.89	QP	LINE
3	0.20	15.27	9.61	0.02	9.86	34.76	53.54	-18.78	Average	LINE
4	0.20	25.37	9.61	0.02	9.86	44.86	63.54	-18.68	QP	LINE
5	0.54	18.93	9.61	0.03	9.86	38.43	46.00	-7.57	Average	LINE
6	0.54	24.99	9.61	0.03	9.86	44.49	56.00	-11.51	QP	LINE
7	0.57	18.97	9.61	0.03	9.86	38.47	46.00	-7.53	Average	LINE
8	0.57	28.92	9.61	0.03	9.86	48.42	56.00	-7.58	QP	LINE
9	0.78	14.87	9.61	0.03	9.86	34.37	46.00	-11.63	Average	LINE
10	0.78	19.95	9.61	0.03	9.86	39.45	56.00	-16.55	QP	LINE
11	0.94	13.49	9.61	0.03	9.86	32.99	46.00	-13.01	Average	LINE
12	0.94	19.33	9.61	0.03	9.86	38.83	56.00	-17.17	QP	LINE

Note: 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

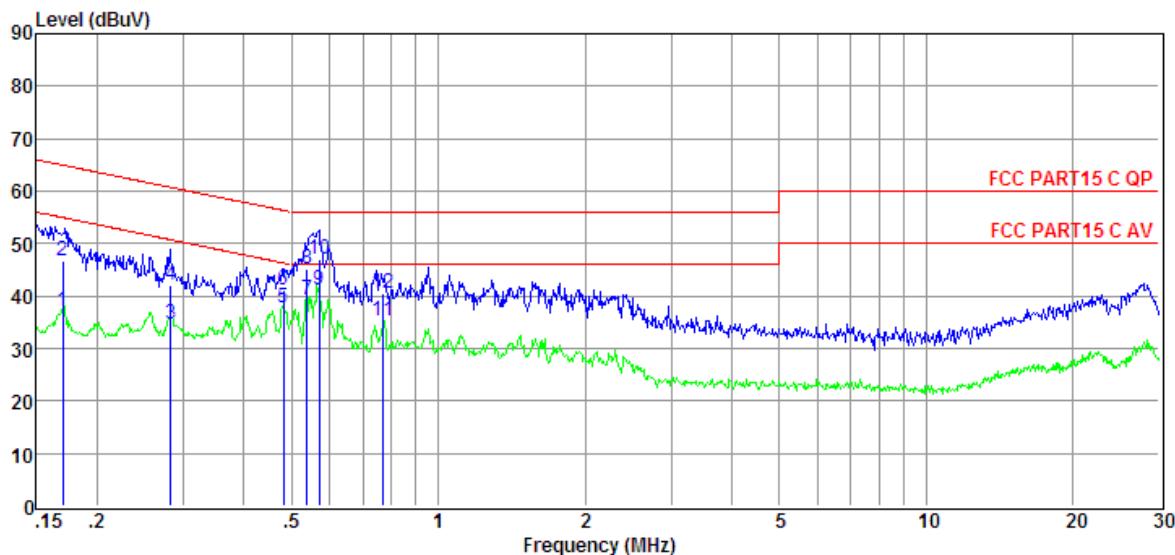
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site	: DDT 1# Shield Room	E:\2017 CE report data\17Q0717-9\CE.EM6
Test Date	: 2017-07-24	Tested By : Jerry
EUT	: Water Resistant Portable Speaker System	Model Number : BLOCK ROCKER SPORT
Power Supply	: AC 120V/60Hz	Test Mode : TX mode
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	LISN : 2016 ENV216/NEUTRAL
Memo	: Built-in battery: 12V9.0AH	

Data: 4



Item (Mark)	Freq. (MHz)	Read Level (dB μ V)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dB μ V)	Limit Line (dB μ V)	Over Limit (dB)	Detector	Phase
1	0.17	17.62	9.61	0.02	9.86	37.11	54.94	-17.83	Average	NEUTRAL
2	0.17	27.07	9.61	0.02	9.86	46.56	64.94	-18.38	QP	NEUTRAL
3	0.28	15.14	9.61	0.02	9.86	34.63	50.72	-16.09	Average	NEUTRAL
4	0.28	22.45	9.61	0.02	9.86	41.94	60.72	-18.78	QP	NEUTRAL
5	0.48	18.26	9.61	0.02	9.86	37.75	46.32	-8.57	Average	NEUTRAL
6	0.48	21.54	9.61	0.02	9.86	41.03	56.32	-15.29	QP	NEUTRAL
7	0.54	19.66	9.61	0.03	9.86	39.16	46.00	-6.84	Average	NEUTRAL
8	0.54	25.50	9.61	0.03	9.86	45.00	56.00	-11.00	QP	NEUTRAL
9	0.57	21.49	9.61	0.03	9.86	40.99	46.00	-5.01	Average	NEUTRAL
10	0.57	27.57	9.61	0.03	9.86	47.07	56.00	-8.93	QP	NEUTRAL
11	0.77	15.60	9.61	0.03	9.86	35.10	46.00	-10.90	Average	NEUTRAL
12	0.77	21.11	9.61	0.03	9.86	40.61	56.00	-15.39	QP	NEUTRAL

Note: 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.

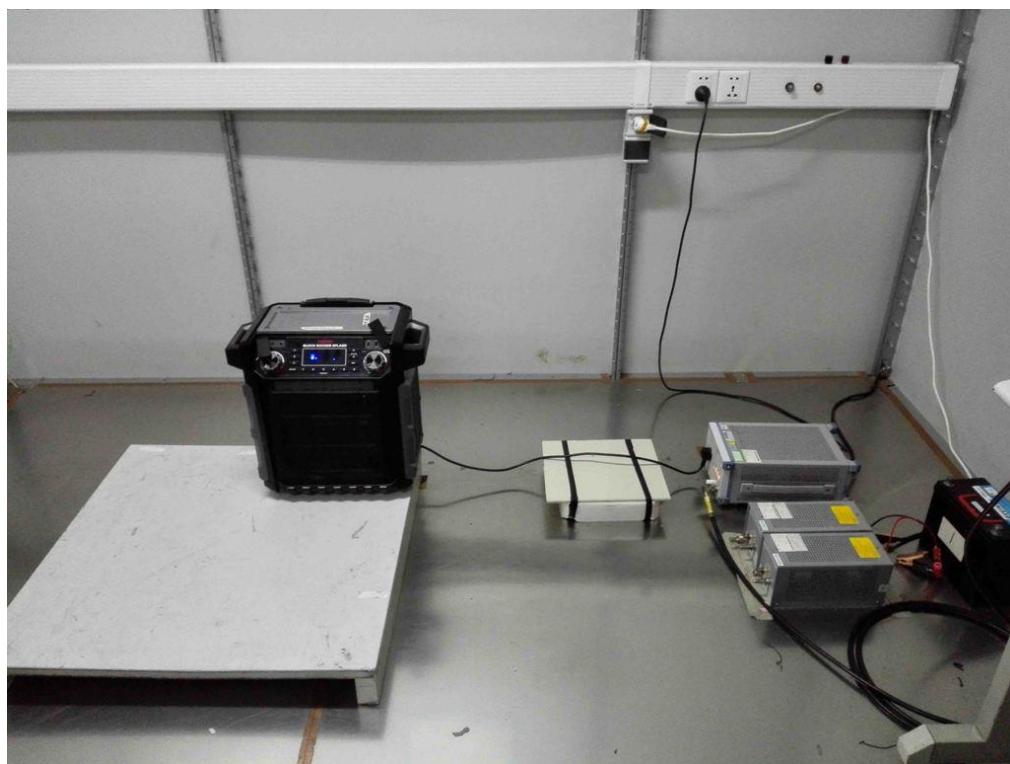
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

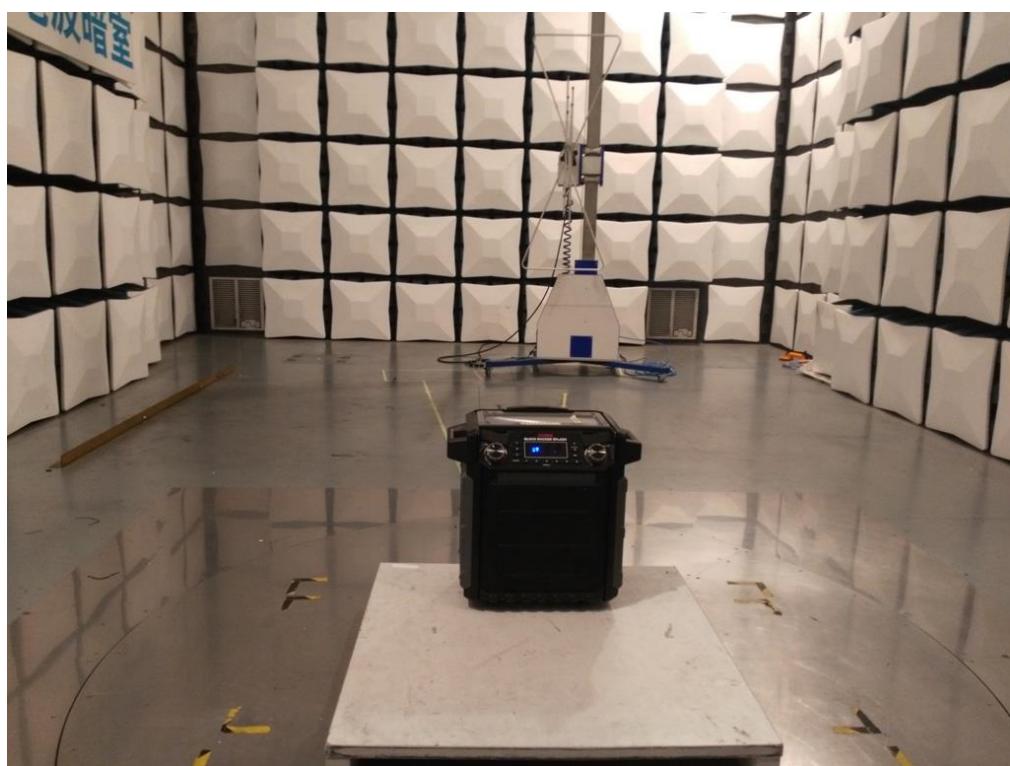
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

6. Test setup photograph

6.1. Photos of Power Line Conducted emission test



6.2. Photos of radiated emission test



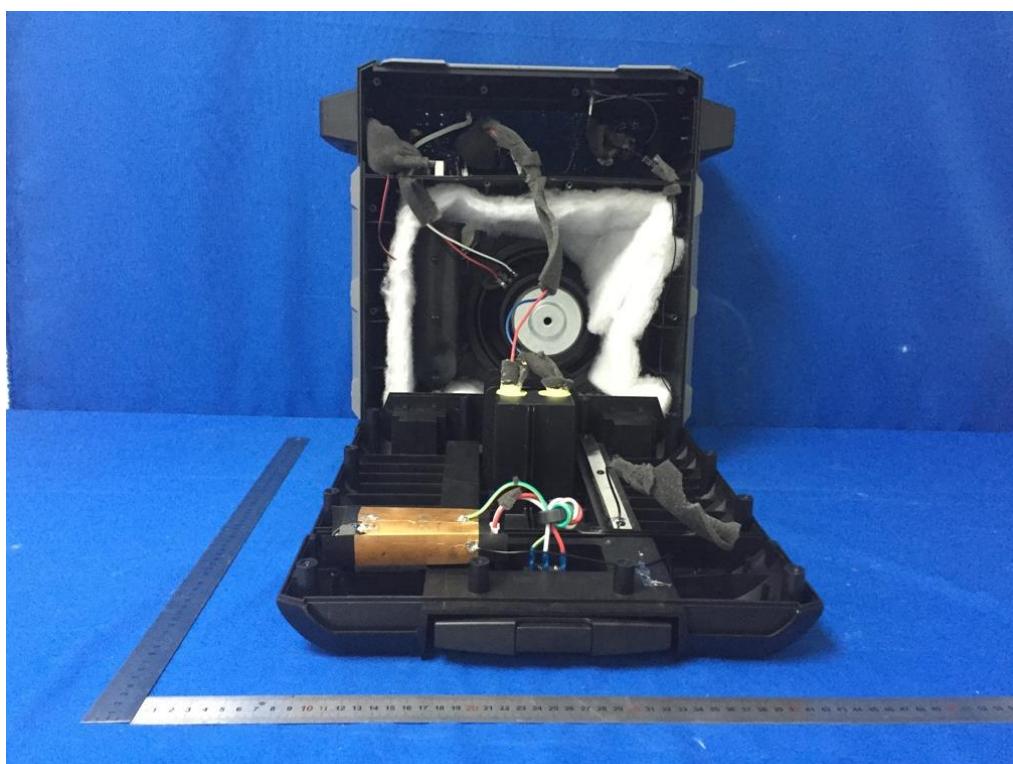
7. Photos of the EUT

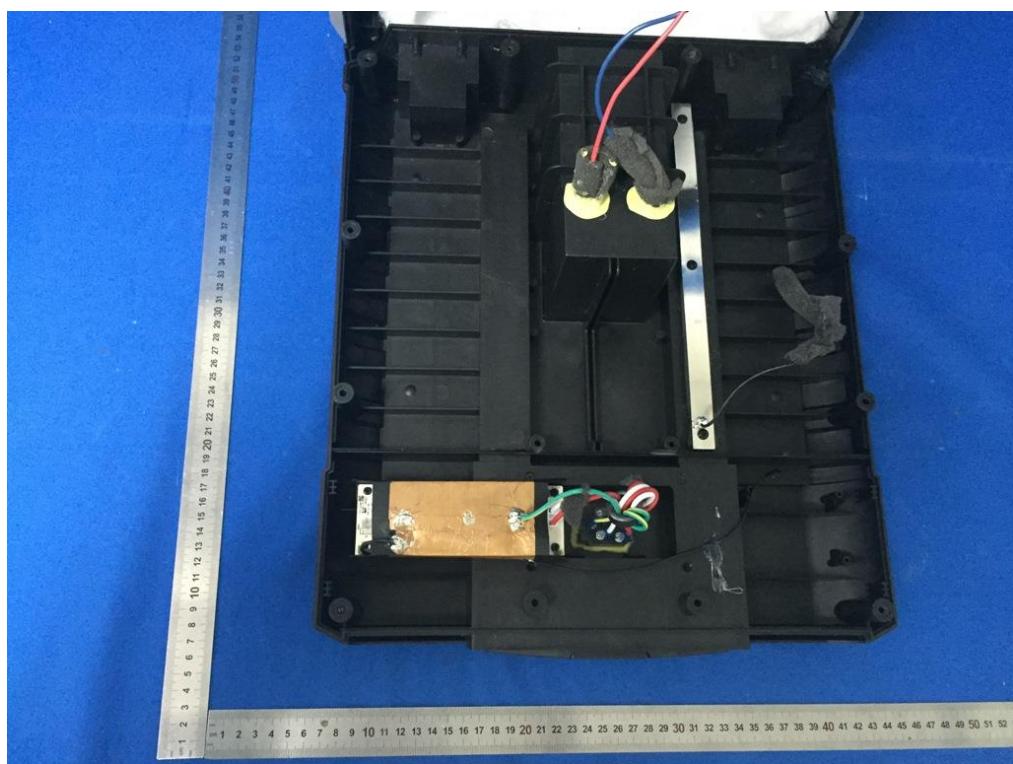


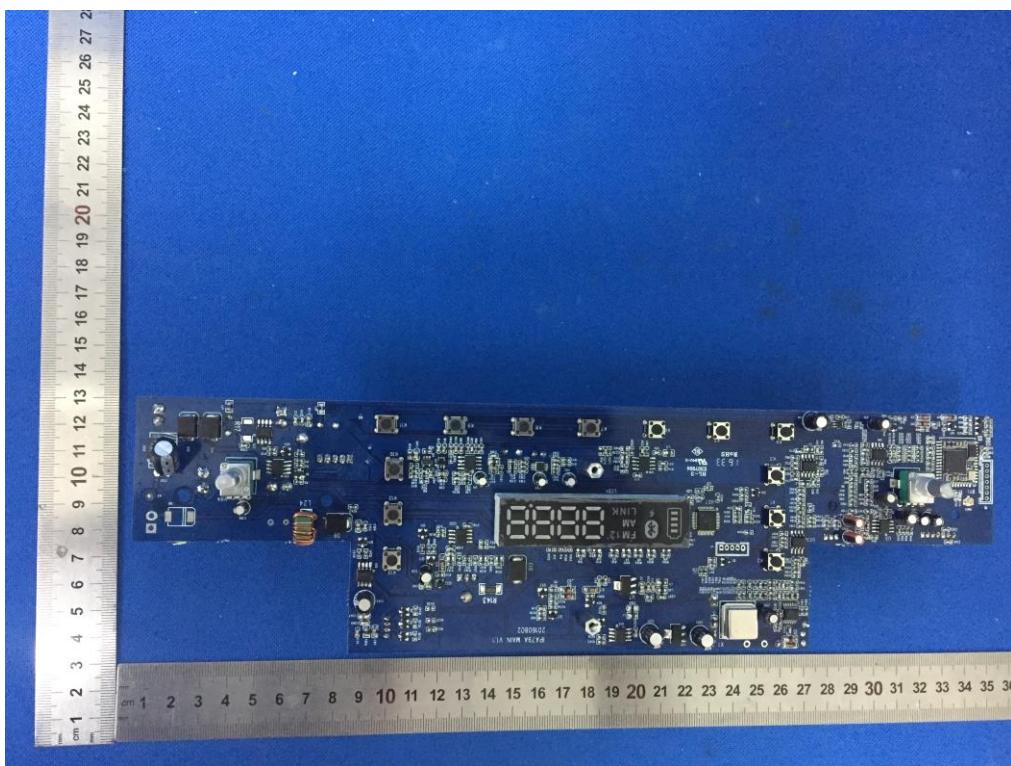


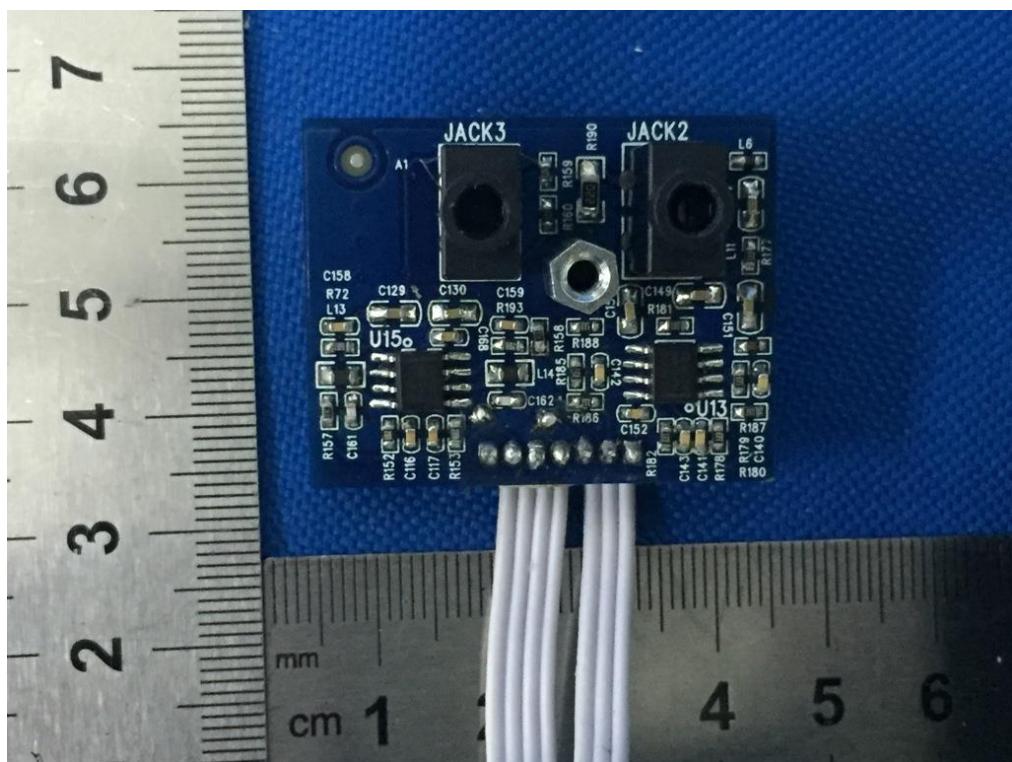
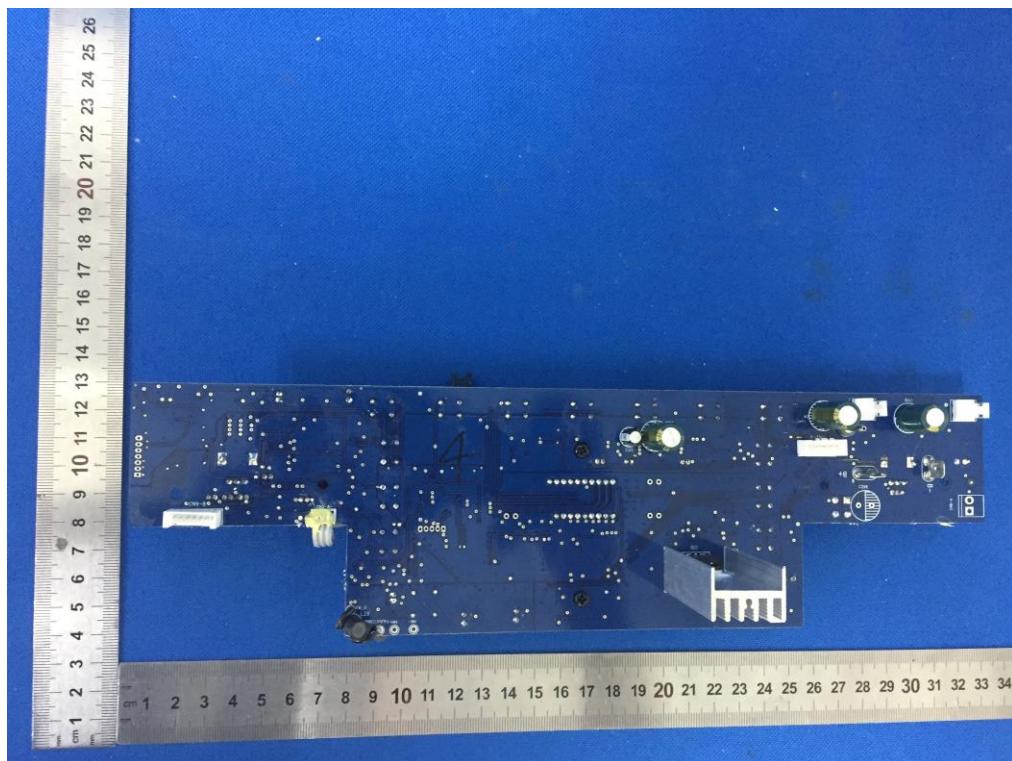


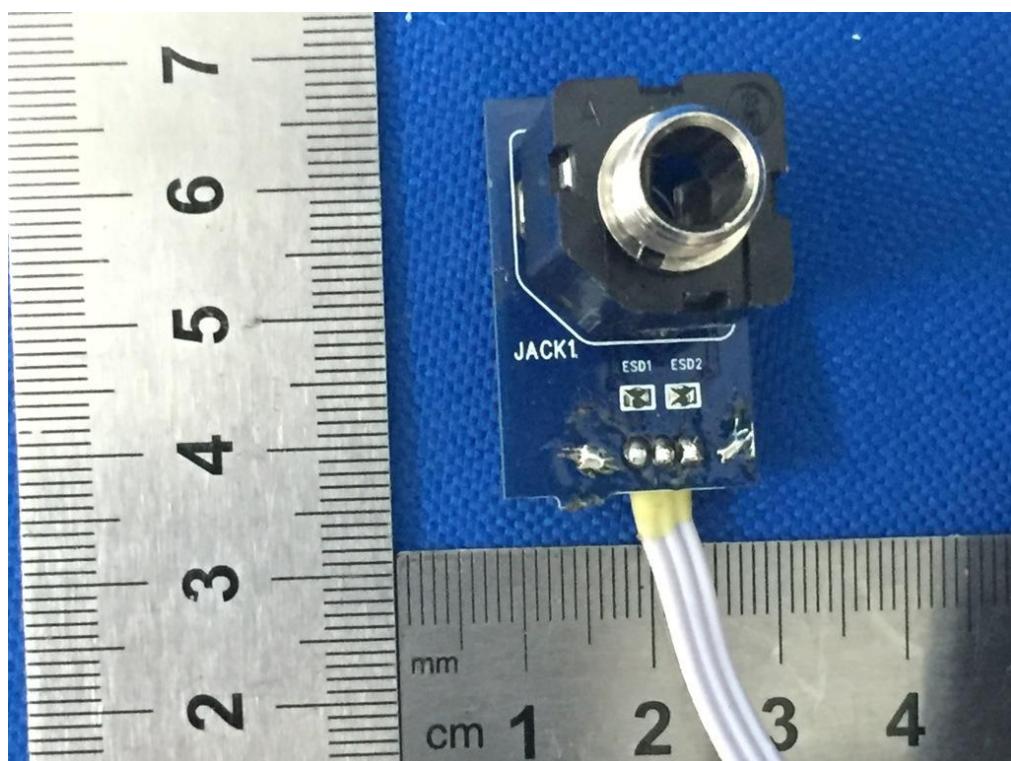
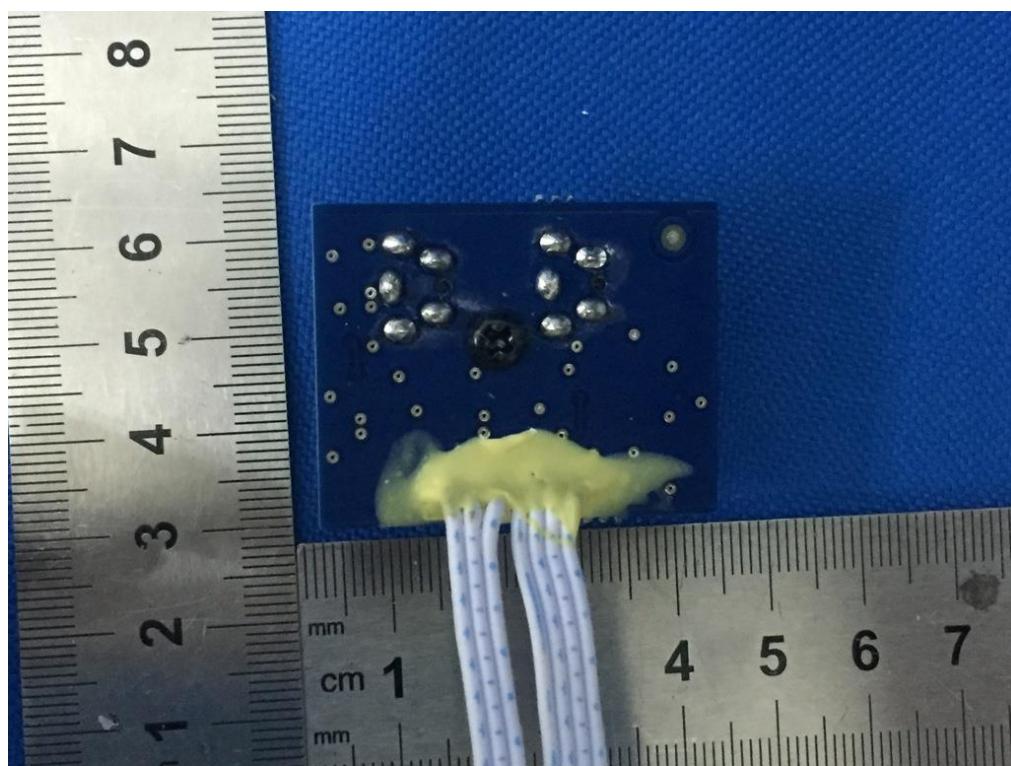


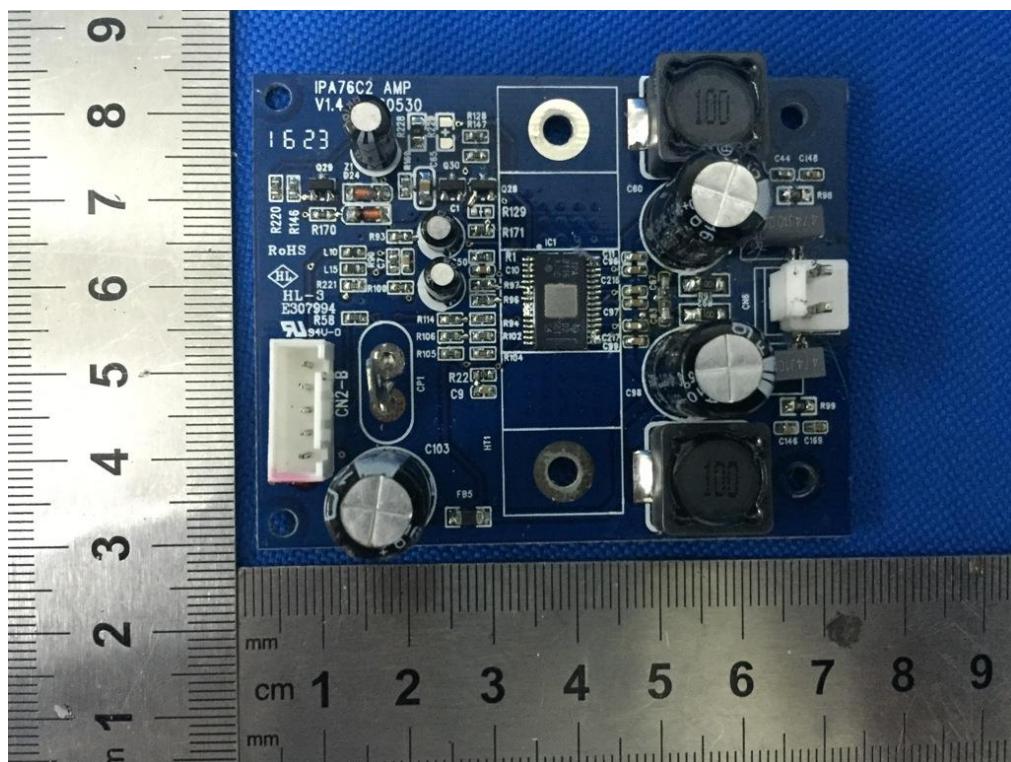
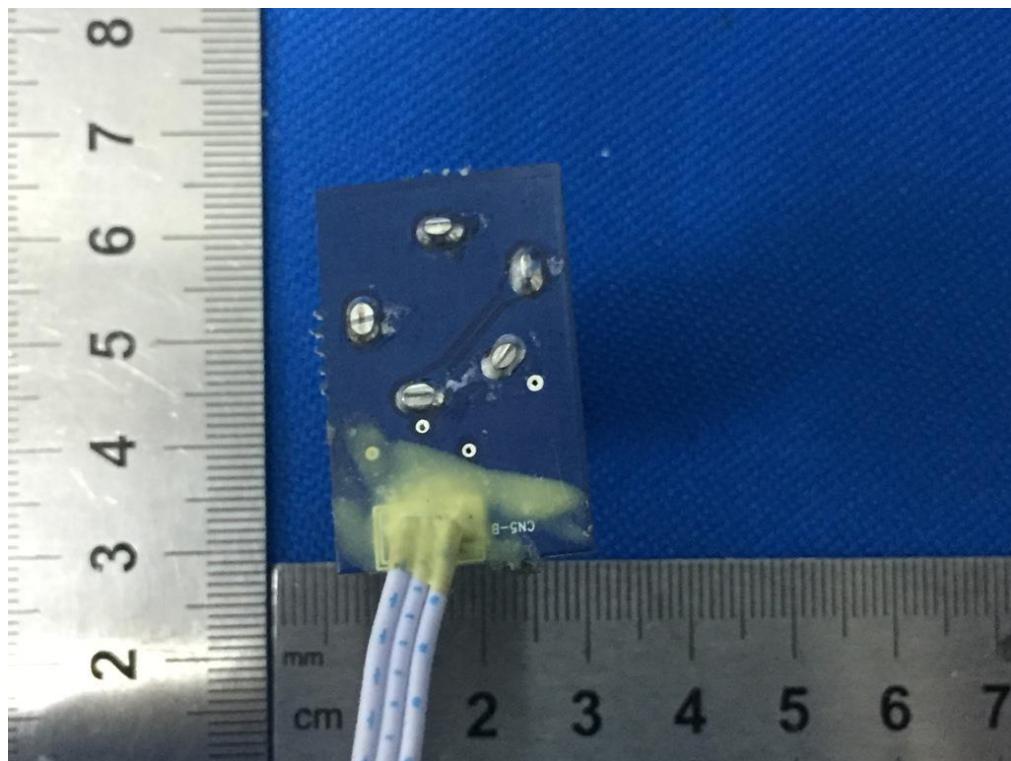


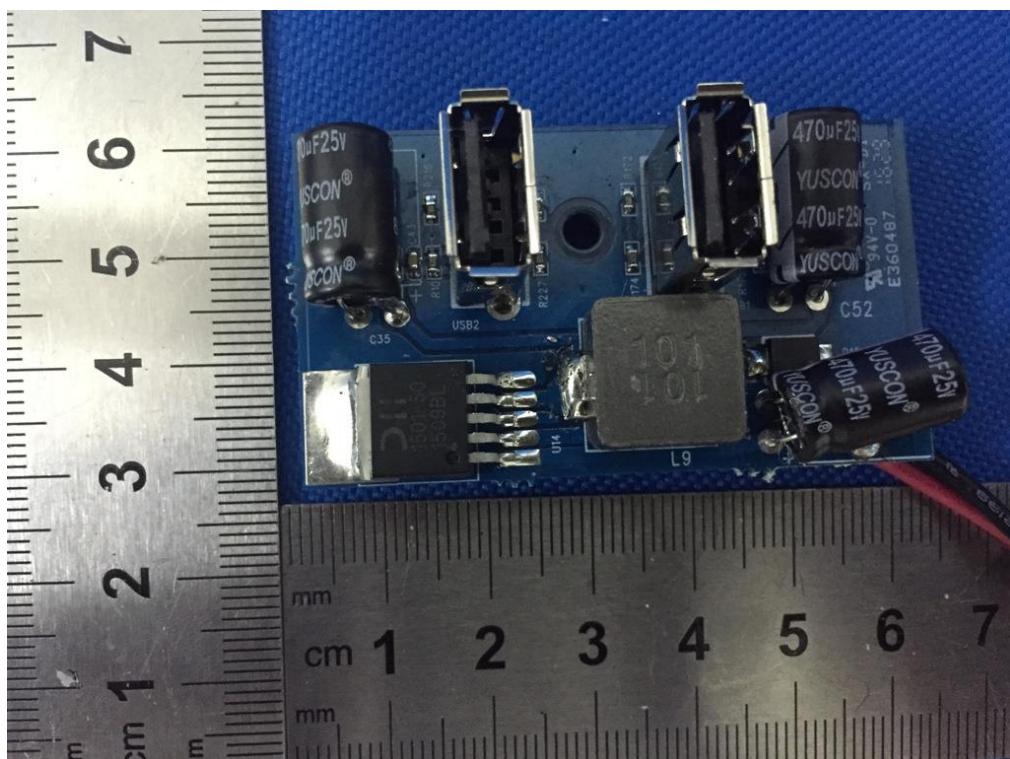
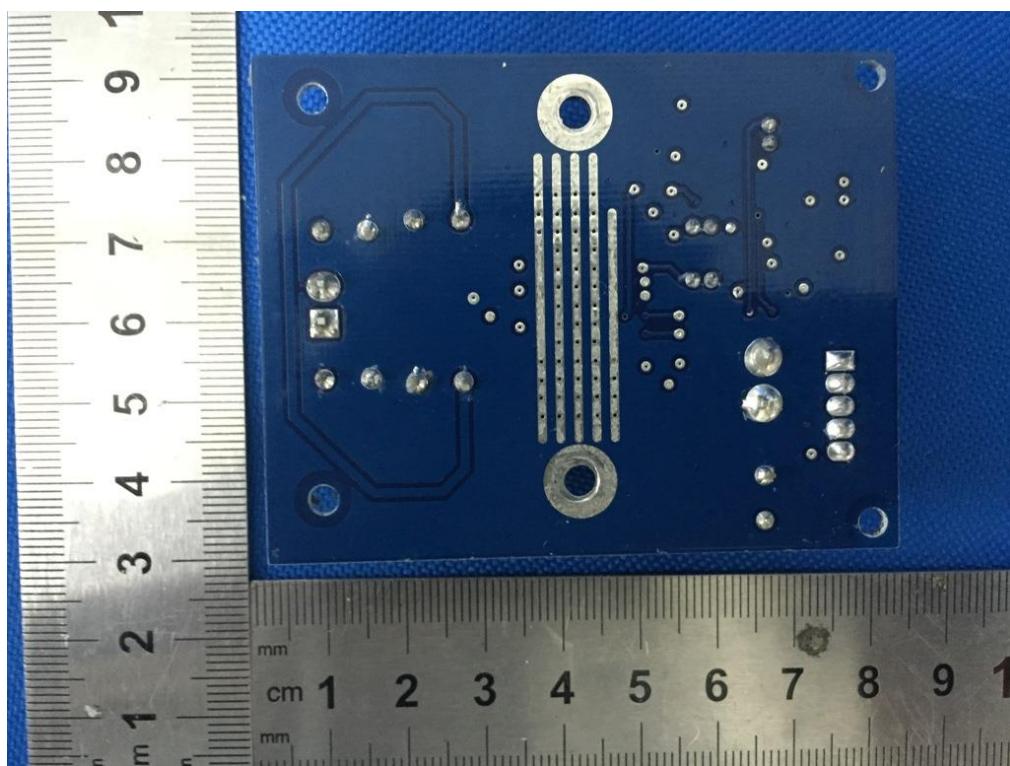


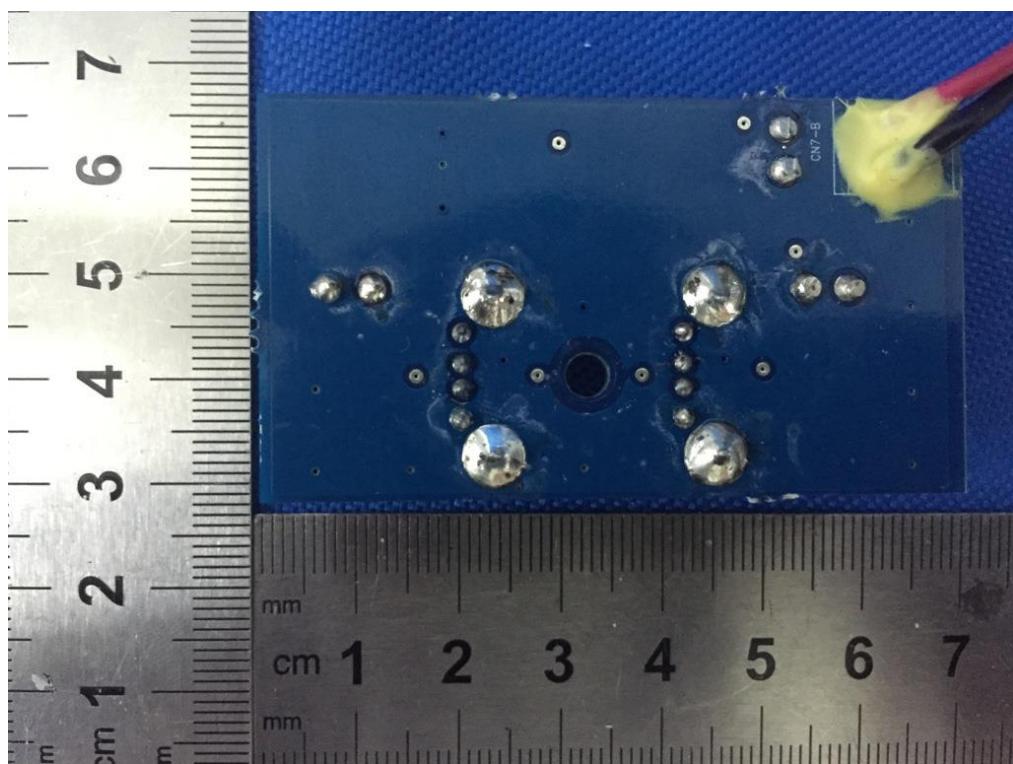


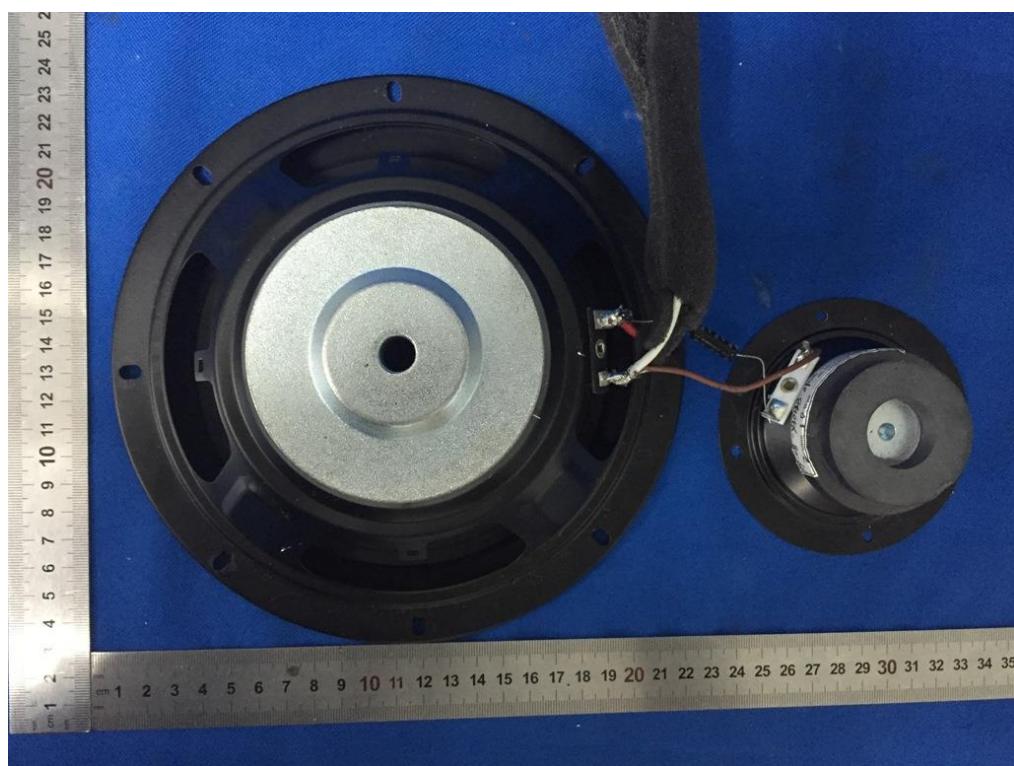
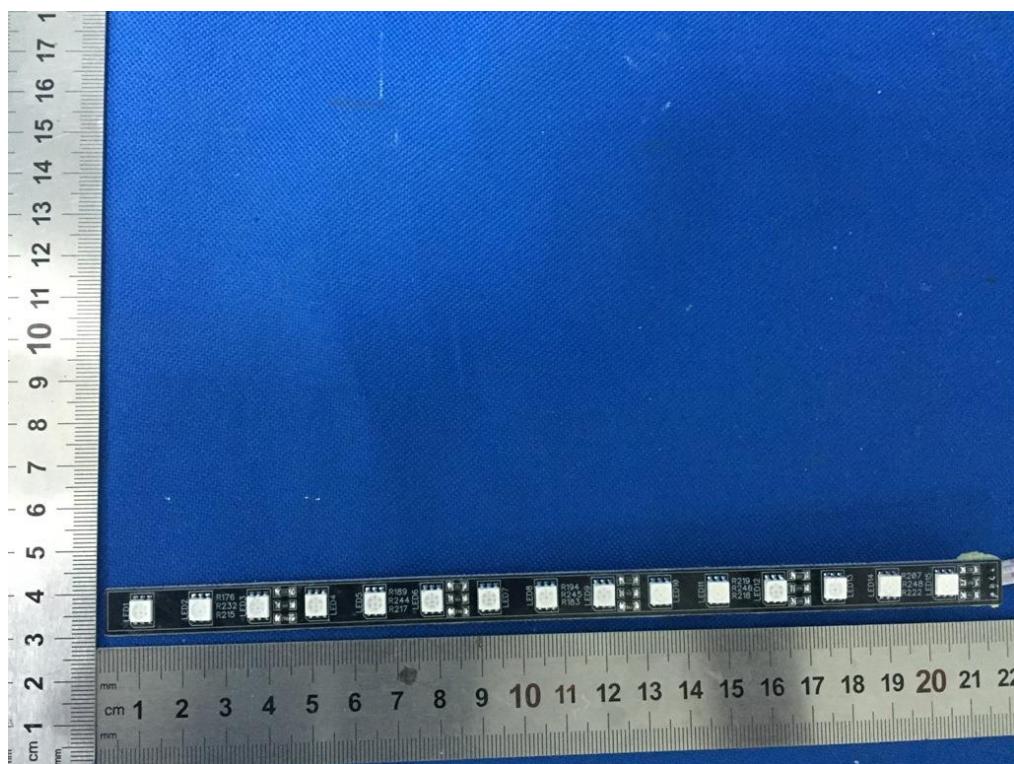


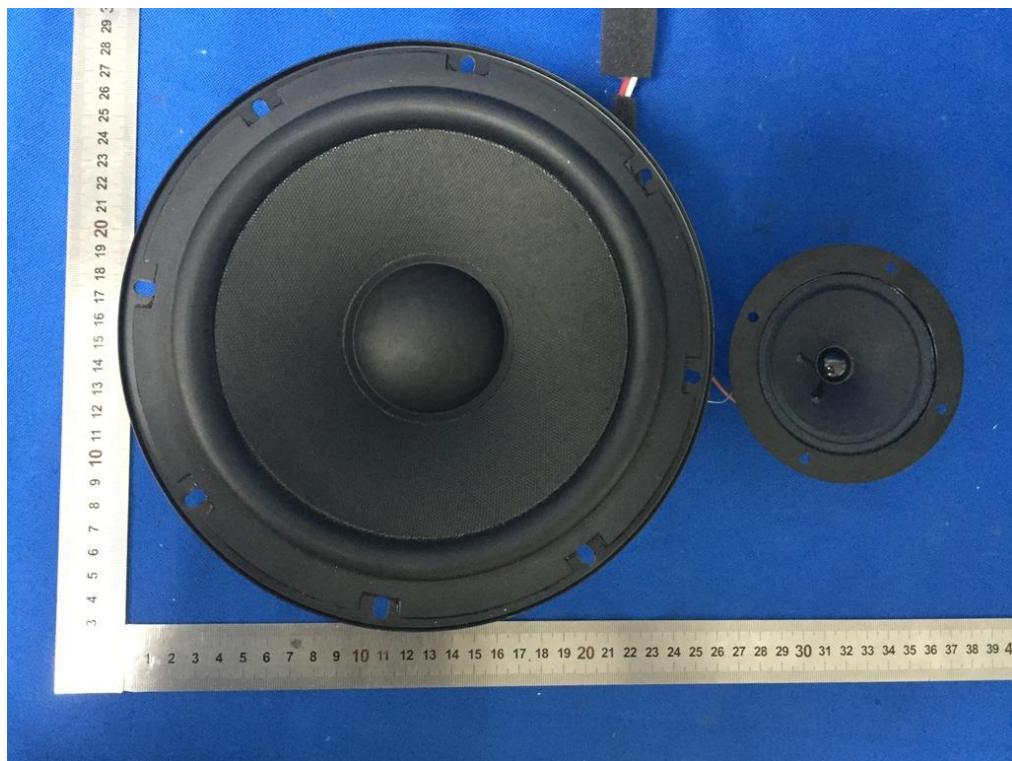








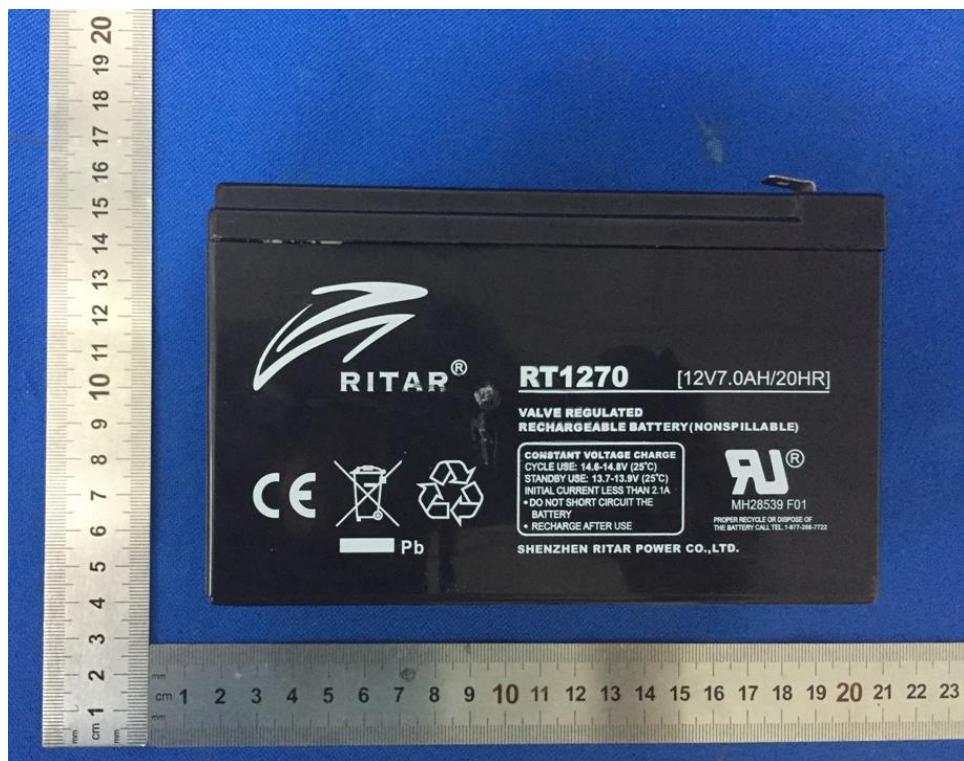




Built-in battery: PL7-12



Built-in battery: RT1270



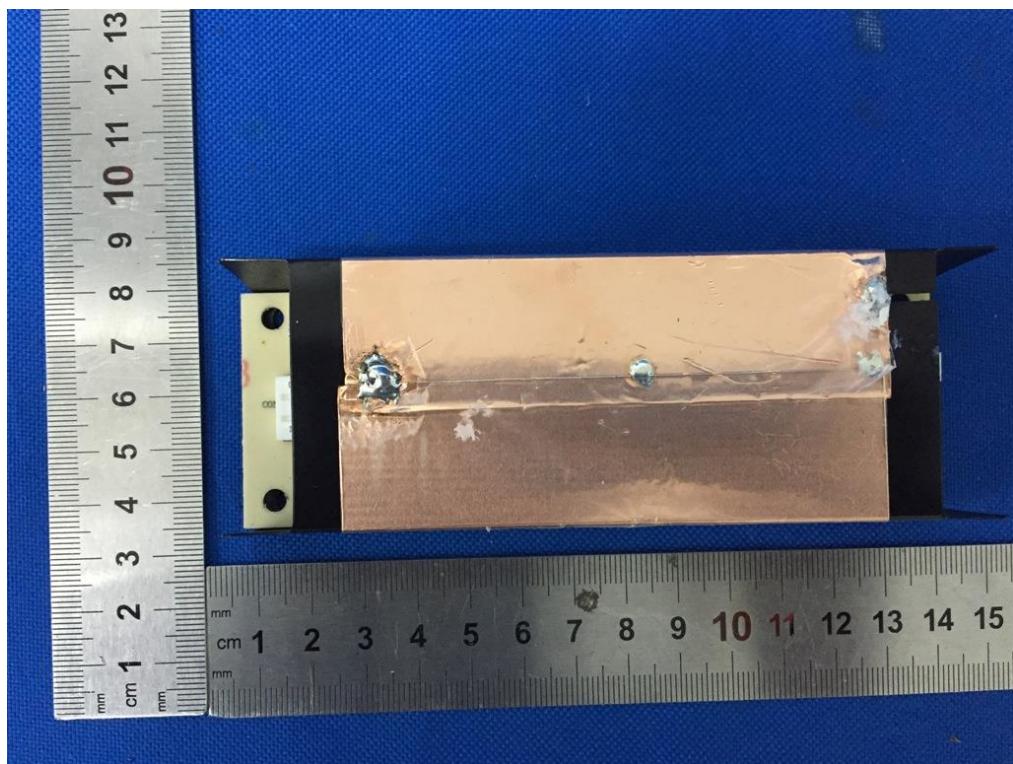
Built-in battery: RT1290

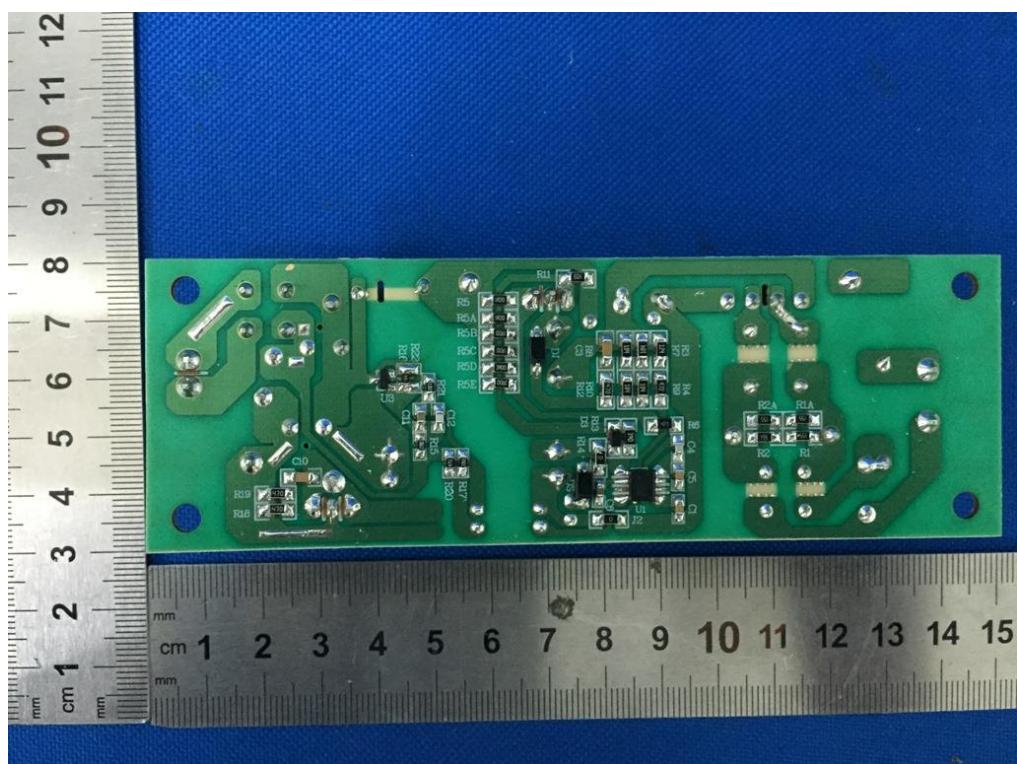
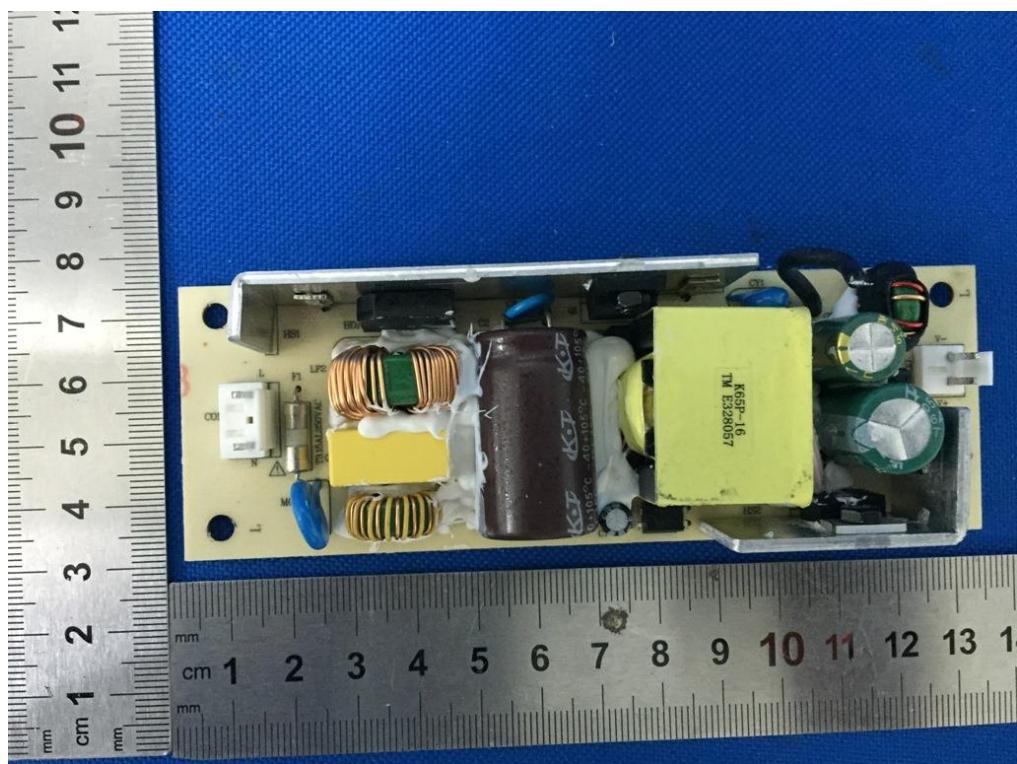


Built-in battery: DJW12-9.0

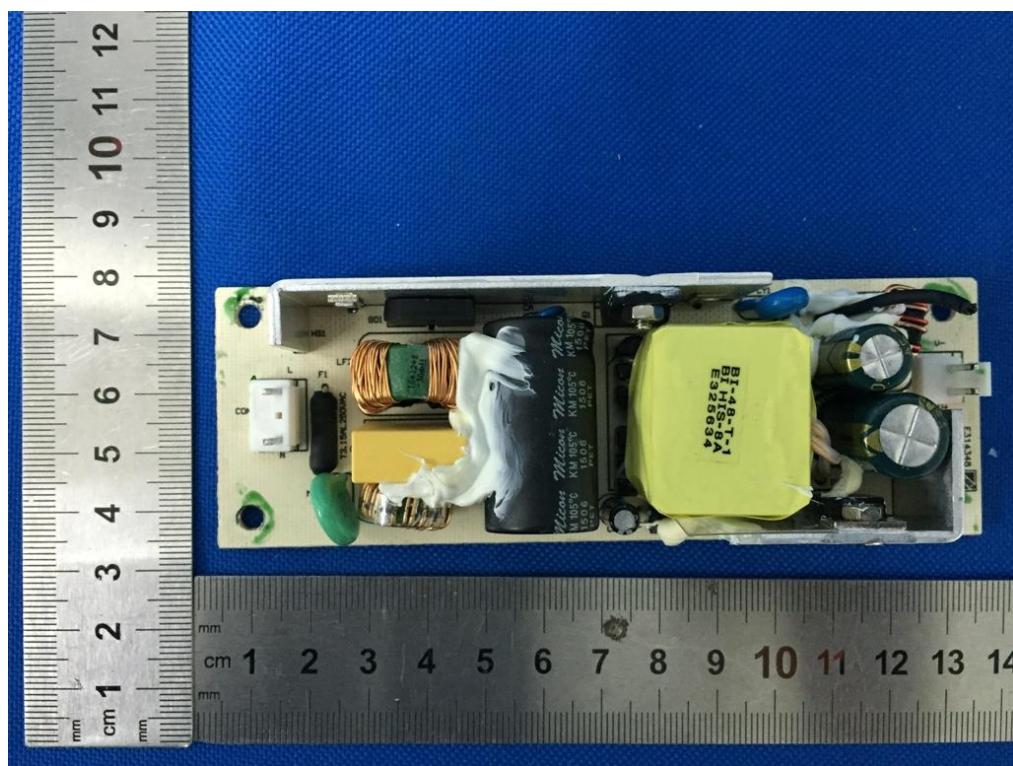
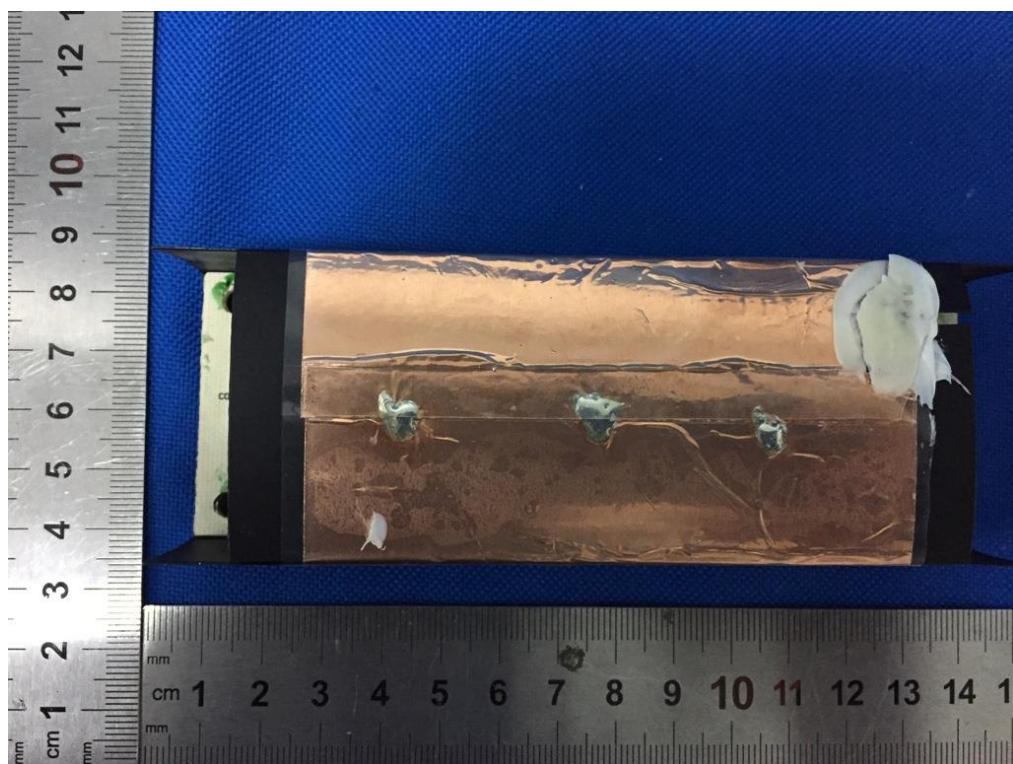


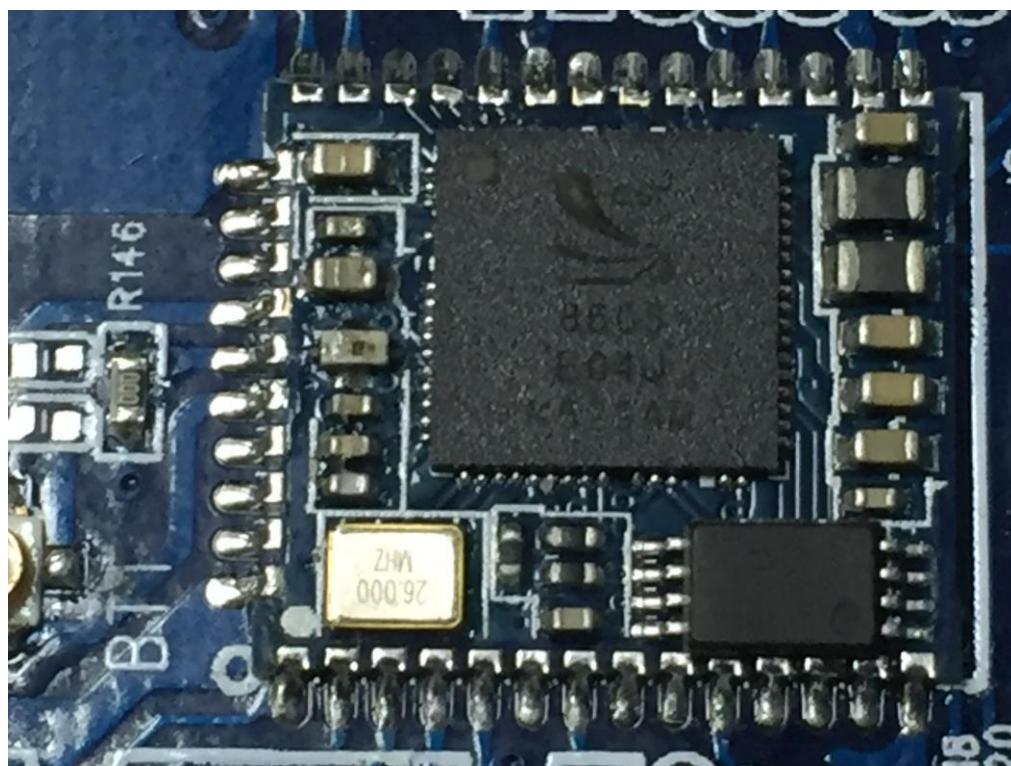
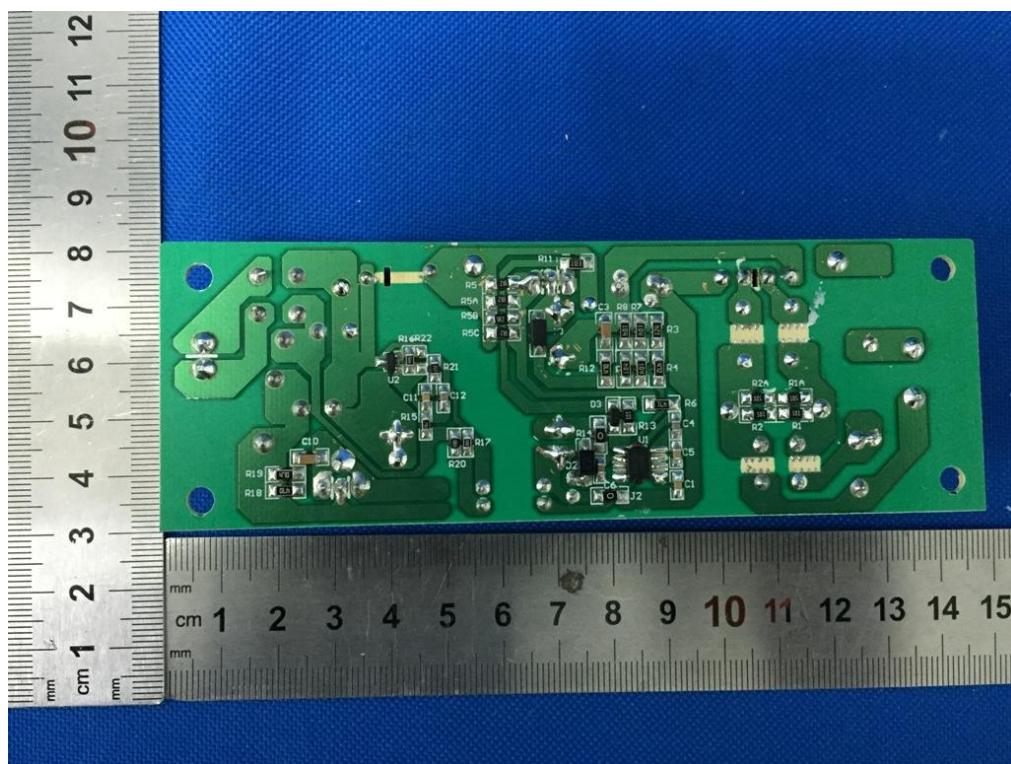
Built-in AC adapter: K65P160410





Built-in AC adapter: BI67-160410-O3





END OF REPORT