



AUDIX Technology (Shenzhen) Co., Ltd.

FCC ID: 2AQ5X-WM-01

FCC PART 15C TEST REPORT FOR CERTIFICATION  
On Behalf of

Flextronics R&D (Shenzhen) Co., Ltd.

Charger

Model No.: WM-01

Brand Name: NIKE or

FCC ID: 2AQ5X-WM-01

Prepared for : Flextronics R&D (Shenzhen) Co., Ltd.  
2F, 8 Blk Vision SZ Bus. Park, Gaoxin 9th S Rd., Hi-tech Ind.  
Park, NanShan 518057 Shenzhen China

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Report Number : ACS- F18199  
Date of Test : Aug.19~Sep.12, 2018  
Date of Report : Sep.12, 2018

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## TEST REPORT CERTIFICATION

Applicant : Flextronics R&D (Shenzhen) Co., Ltd.  
Manufacturer : Flextronics R&D (Shenzhen) Co., Ltd.  
Product : Charger  
FCC ID : 2AQ5X-WM-01  
(A) Model No. : WM-01  
(B) Brand Name : NIKE or   
(C) Test Voltage : AC 120V/60Hz  
(USB: DC 5V)

Measurement Standard Used:

FCC CFR 47 Part 15 Subpart C

Test procedure used:

ANSI C63.10: 2013

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements. This report contains data that are not covered by the NVLAP accreditation.

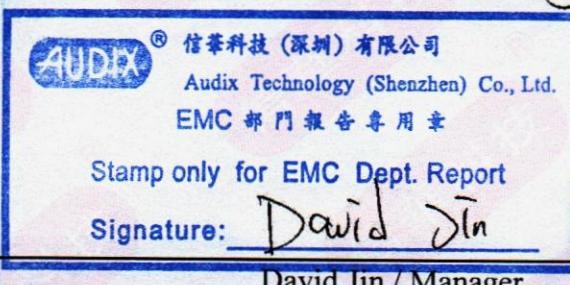
This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Aug.19~Sep.12, 2018 Report of date: Sep.12, 2018

Prepared by : Monica Liu Reviewed by : Sunny Lu  
Monica Liu / Assistant Sunny Lu / Deputy Manager



Approved & Authorized Signer :

## 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	Results
Power Line Conducted Emission Test	FCC Part 15: 15.207 ANSI C63.10: 2013	PASS
Radiated Emission Test	FCC Part 15: 15.209 ANSI C63.10: 2013	PASS
20dB Bandwidth	FCC Part 15: 15.215 ANSI C63.10 2013	PASS

## 2. GENERAL INFORMATION

### 2.1. Equipment under test (EUT)

Product : Charger

Model No. : WM-01

Brand Name : NIKE or 

FCC ID : 2AQ5X-WM-01

Radio Frequency : Typical 220kHz  
(Min. 180kHz, Max. 280kHz)

Applicant : Flextronics R&D (Shenzhen) Co., Ltd.  
2F, 8 Blk Vision SZ Bus. Park, Gaoxin 9th S Rd., Hi-tech Ind. Park,  
NanShan 518057 Shenzhen China

Manufacturer : Flextronics R&D (Shenzhen) Co., Ltd.  
2F, 8 Blk Vision SZ Bus. Park, Gaoxin 9th S Rd., Hi-tech Ind. Park,  
NanShan 518057 Shenzhen China

Factory#1 : Flextronics Manufacturing(Zhuhai) Co., Ltd.  
Xin Qing Science & Technology Industrial Park  
Jing AN, Doumen, Zhuhai, P.R. China 519180

Factory #2 : Flextronics Power Systems (Dongguan) Co., Ltd.  
Mechanical Industrial Zone, Shida Road, Daling Shan, Dongguan,  
Guangdong 523817, P.R. China

Factory #3 : FLEXTRONICS TECHNOLOGIES (INDIA) PRIVATE LIMITED  
Plot 3, Phase II, SEZ-SIPCOT Industrial Park, Sandavelur C  
Village, Sriperumpudur Taluk, Kanchipuram District, Tamil Nadu,  
602106 India

Date of Test : Aug.19~Sep.12, 2018

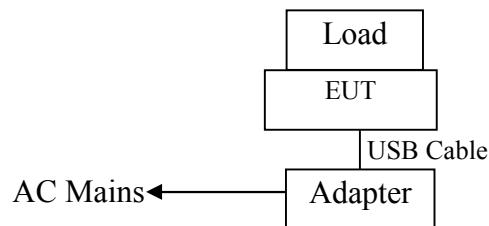
Date of Receipt : Aug.10, 2018

Sample Type : Prototype production

## 2.2. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number
1.	Adapter	---	Flextronics	G1015-US	---
Input: AC 100-240V, 50/60Hz, Output: 5V, 2A Power Cord: Unshielded, Detachable, 1.8m USB Cable: Shielded, Detachable, 1.8m					

## 2.3. Block Diagram of Test Setup



( EUT: Charger)

## 2.4. Test Facility

### Site Description

#### Name of Firm

Audix Technology (Shenzhen) Co., Ltd.

: No. 6, Kefeng Road, Science & Technology Park,  
Nanshan District , Shenzhen, Guangdong, China

#### EMC Lab.

Certificated by FCC, USA

: Designation No: CN5022  
Valid Date: Mar.31, 2019

Certificated by Industry Canada  
: Registration Number: IC 5183A-1  
Valid Date: May.07, 2020

Certificated by DAkkS, Germany  
: Registration No: D-PL-12151-01-00  
Valid Date: Dec.07, 2021

Accredited by NVLAP, USA  
: NVLAP Code: 200372-0  
Valid Date: Mar.31, 2019

## 2.5. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.6dB (9kHz~150kHz)
	3.6dB (150kHz~30MHz)
Uncertainty for Radiation Emission test in 10m chamber	3.6dB (30~200MHz, Polarize: H)
	3.8 dB (30~200MHz, Polarize: V)
	4.0 dB (200M~1GHz, Polarize: H)
	4.2 dB (200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 3m chamber	4.0dB (30~200MHz, Polarize: H)
	4.0 dB (30~200MHz, Polarize: V)
	4.4 dB (200M~1GHz, Polarize: H)
	4.4 dB (200M~1GHz, Polarize: V)
Uncertainty for test site temperature and humidity	0.6°C
	3%

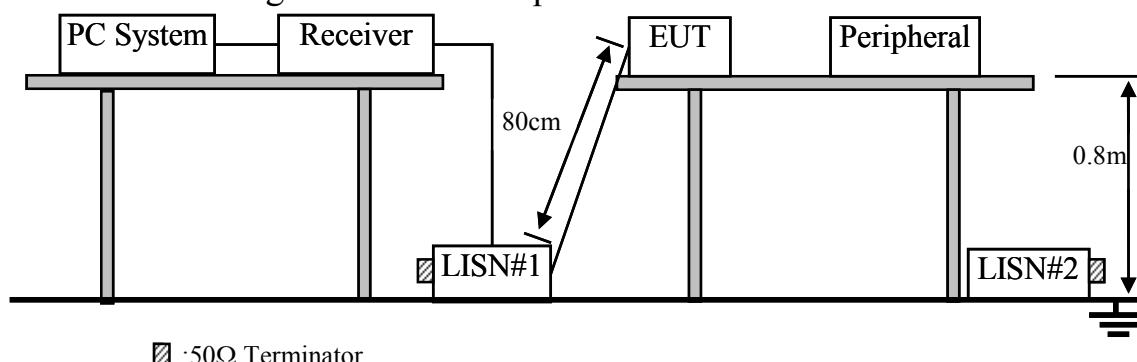
### 3. POWER LINE CONDUCTED EMISSION MEASUREMENT

#### 3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	May.17,18	1 Year
2.	Test Receiver	Rohde & Schwarz	ESCI	100842	Apr.23,18	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ENV216	102160	Jan.12,18	1 Year
4.	L.I.S.N.#2	Kyoritsu	K NW-403D	8-1750-2	Apr.23,18	1 Year
5.	Terminator	Hubersuhner	50Ω	No.1	Apr.23,18	1 Year
6.	Terminator	Hubersuhner	50Ω	No.2	Apr.23,18	1 Year
7.	RF Cable	Fujikura	RG-55/U	No.2	Apr.23,18	1 Year
8.	Coaxial Switch	Anritsu	MP59B	6201397223	Apr.23,18	1 Year
9.	Test Software	AUDIX	e3	6.100913a	N/A	N/A

Note: N/A means Not applicable.

#### 3.2. Block Diagram of Test Setup



■ :50Ω Terminator

#### 3.3. Power Line Conducted Emission Test Limits

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

Notes: 1. \* Decreasing linearly with logarithm of frequency.

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

### 3.4. Configuration of EUT on Test

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

#### 3.4.1. Charger (EUT)

Model No. : WM-01  
Serial No. : N/A

3.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.2.

### 3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turn on the power of all equipment.
- 3.5.3. PC run test software to control EUT work in Tx mode.

### 3.6. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via AC unit connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The 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 ANSI C63.10: 2013 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESCI) is set at 9kHz.

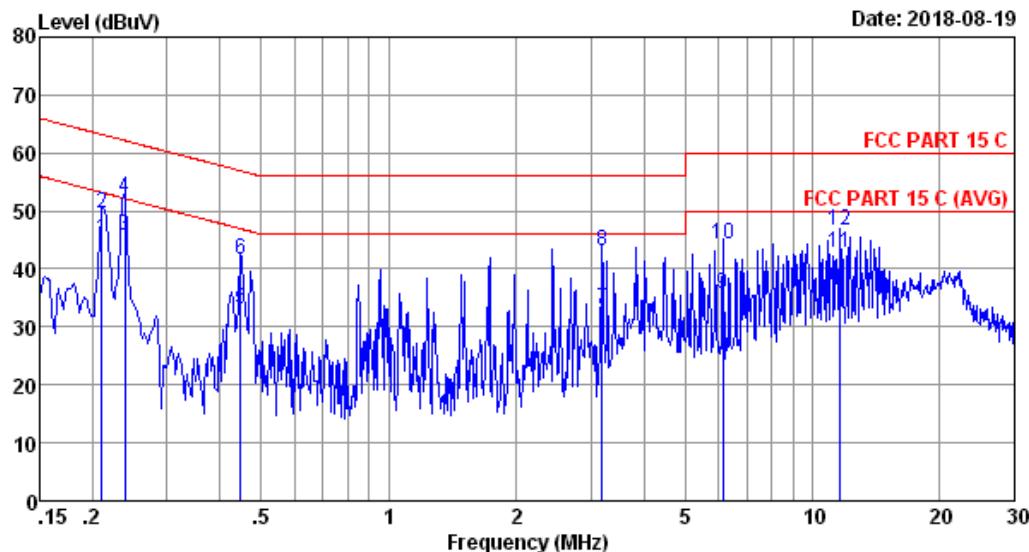
The frequency range from 150kHz to 30MHz is checked.

### 3.7. Conducted Emission at Mains Terminals Test Results

**PASS.** (All emissions not reported below are too low against the prescribed limits.)

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Date: 2018-08-19



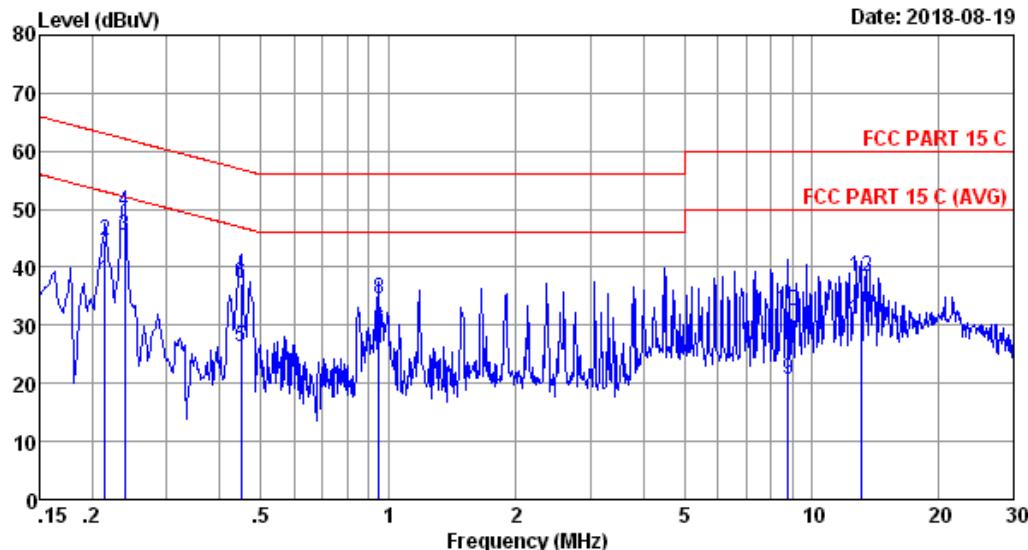
Site no :1# CE Data No :2  
 Dis./Lisn :2018 LISN ENV216-L  
 Limit :FCC PART 15 C  
 Env./Ins. :22.4\*C/53% Engineer :Apple  
 EUT :Charger M/N:WM-01  
 Power Rating :AC 120V/60Hz  
 Test Mode :Tx Mode

No	Freq (MHz)	LISN	Cable	Emission				Remark
		Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	
1	0.210	9.50	0.19	35.50	45.19	53.21	8.02	Average
2	0.210	9.50	0.19	39.80	49.49	63.21	13.72	QP
3	0.238	9.35	0.19	36.10	45.64	52.17	6.53	Average
4	0.238	9.35	0.19	42.70	52.24	62.17	9.93	QP
5	0.447	9.51	0.19	23.45	33.15	46.93	13.78	Average
6	0.447	9.51	0.19	32.04	41.74	56.93	15.19	QP
7	3.190	9.48	0.14	23.50	33.12	46.00	12.88	Average
8	3.190	9.48	0.14	33.47	43.09	56.00	12.91	QP
9	6.153	9.53	0.16	25.89	35.58	50.00	14.42	Average
10	6.153	9.53	0.16	34.58	44.27	60.00	15.73	QP
11	11.574	9.58	0.18	33.00	42.76	50.00	7.24	Average
12	11.574	9.58	0.18	37.00	46.76	60.00	13.24	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss+Reading.  
 2. If the average limit is met when using a quasi-peak detector.  
 the EUT shall be deemed to meet both limits and measurement  
 with average detector is unnecessary.

Data: 1 File: E:\1#CE\2018 Report Data\T\TRC\ACS18Q1280-RF.EM6 (4)

Date: 2018-08-19



Site no :1# CE Data No :1  
 Dis./Lisn :2018 LISN ENV216-N  
 Limit :FCC PART 15 C  
 Env./Ins. :22.4\*C/53% Engineer :Apple  
 EUT :Charger M/N:WM-01  
 Power Rating :AC 120V/60Hz  
 Test Mode :Tx Mode

No	Freq (MHz)	LISN	Cable	Emission				Remark
		Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	
1	0.214	9.47	0.19	28.20	37.86	53.05	15.19	Average
2	0.214	9.47	0.19	34.97	44.63	63.05	18.42	QP
3	0.238	9.46	0.19	35.70	45.35	52.17	6.82	Average
4	0.238	9.46	0.19	39.90	49.55	62.17	12.62	QP
5	0.450	9.40	0.19	16.69	26.28	46.88	20.60	Average
6	0.450	9.40	0.19	27.49	37.08	56.88	19.80	QP
7	0.948	9.35	0.13	19.52	29.00	46.00	17.00	Average
8	0.948	9.35	0.13	25.12	34.60	56.00	21.40	QP
9	8.786	9.44	0.17	11.00	20.61	50.00	29.39	Average
10	8.786	9.44	0.17	23.00	32.61	60.00	27.39	QP
11	13.057	9.49	0.18	21.30	30.97	50.00	19.03	Average
12	13.057	9.49	0.18	28.63	38.30	60.00	21.70	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss+Reading.  
 2. If the average limit is met when using a quasi-peak detector.  
 the EUT shall be deemed to meet both limits and measurement  
 with average detector is unnecessary.

## 4. RADIATED EMISSION TEST

### 4.1. Test Equipments

4.1.1. For frequency range 30MHz~1000MHz (In 3m Anechoic Chamber)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Jun.19,18	1 Year
2.	Signal Analyzer	Rohde & Schwarz	FSV30	104051	Apr.23,18	1 Year
3.	Amplifier	HP	8447D	2648A04738	Apr.23,18	1 Year
4.	Tri-log-Broadband Antenna	Schwarzbeck	VULB 9168	710	Aug.22,18	1 Year
5.	RF Cable	SPUMA	CFD400NL-LW	No.3	Sep.02,18	1 Year
6.	Coaxial Switch	Anritsu	MP59B	6201397222	Apr.23,18	1 Year
7.	Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A	N/A

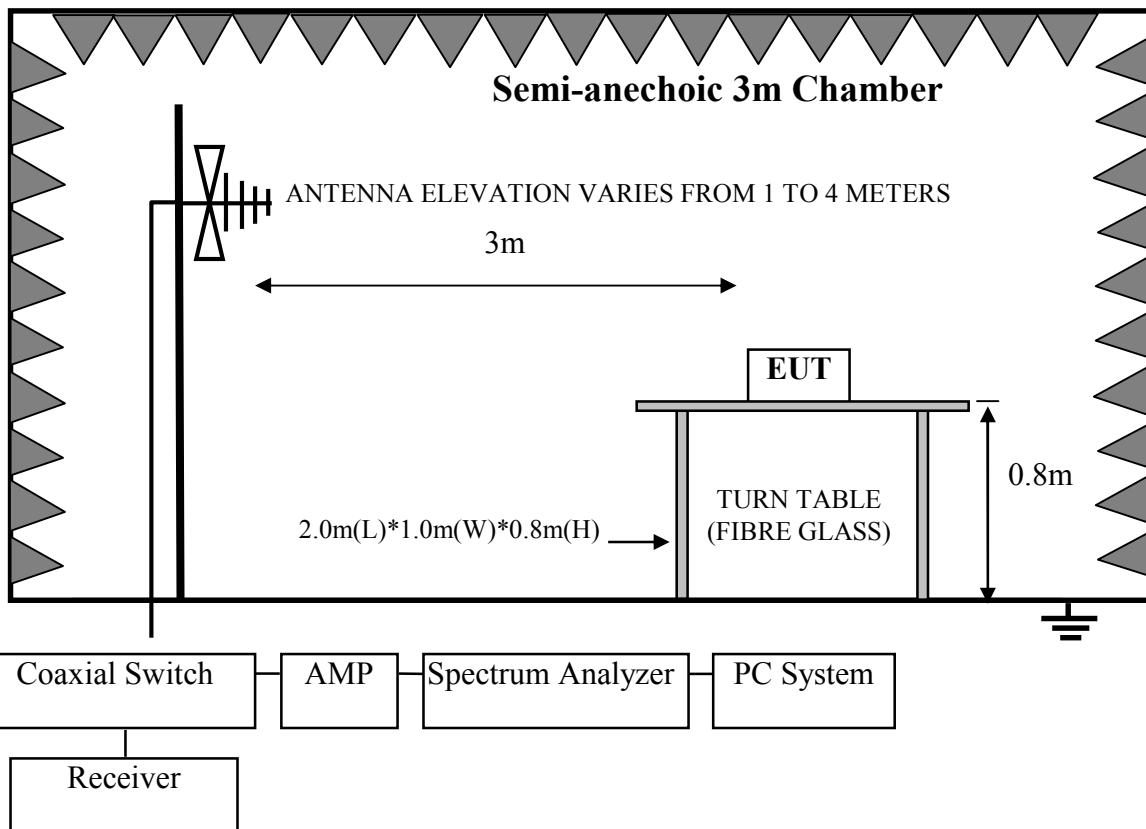
Note: N/A means Not applicable.

4.1.2. Frequency Range: 9kHz -30MHz (In 10m Anechoic Chamber)

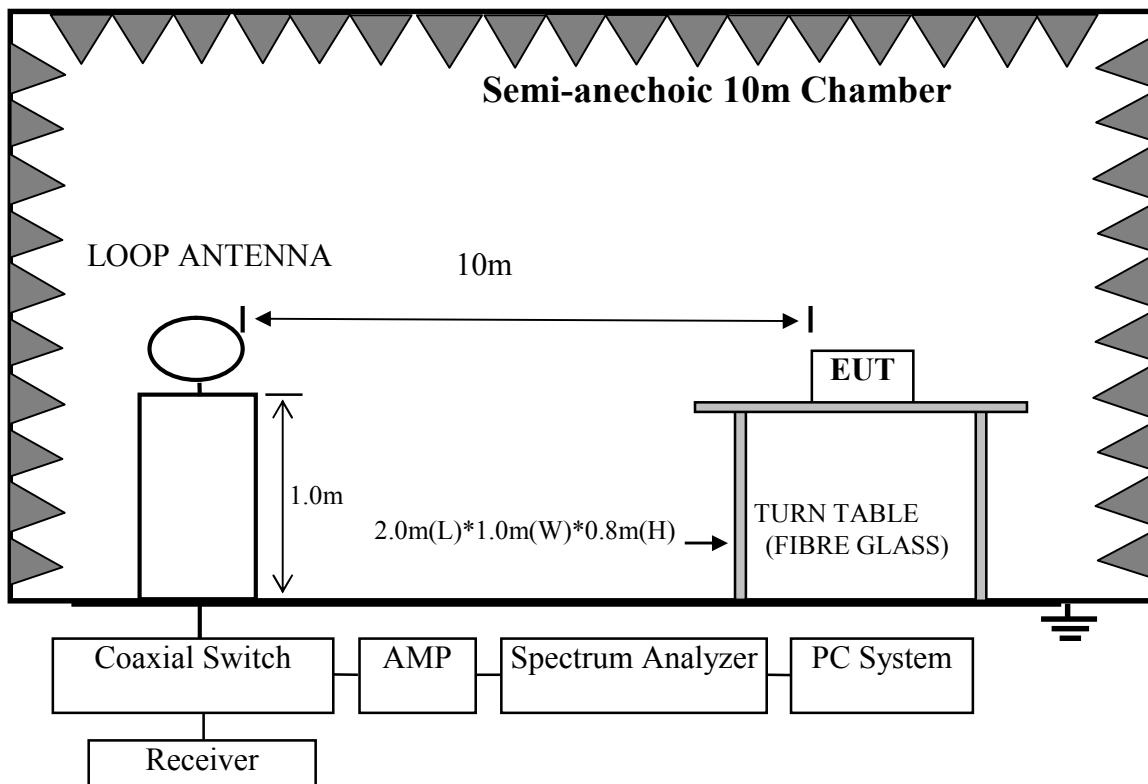
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	10m Chamber	AUDIX	N/A	N/A	Apr.15,18	1 Year
2.	Signal Analyzer	Rohde & Schwarz	FSV30	104051	Apr.23,18	1 Year
3.	Loop Antenna	Chase	HLA6120	1062	Oct.17,17	1 Year
4.	Amplifier	HP	8447D	2648A04738	Apr.23,18	1 Year
5.	Coaxial Switch	Anritsu	MP59B	6201397223	Apr.23,18	1 Year
6.	Test Receiver	Rohde & Schwarz	ESCI	100843	Oct.14,17	1 Year
7.	RF Cable	Hubersuhner	RG400	No.1	Apr.23,18	1 Year

## 4.2. Block Diagram of Test Setup

### 4.2.1. In 3m Anechoic Chamber Test Setup Diagram for 30MHz~1000MHz



### 4.2.2. In 10m Anechoic Chamber Test Setup Diagram for 9kHz-30MHz



#### 4.3.Radiated Emission Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		µV/m	dB(µV)/m
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(µV)/m (Peak) 54.0 dB(µV)/m (Average)	

- Remark: (1) Emission level = Antenna Factor + Cable Loss + Reading  
 (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.

#### Radiated emission Limit(Below 30MHz)

Frequency (MHz)	Field strength (microvolts/meter)	Measurement Distance(meters)
0.009-0.490	2400/F(KHz)	300
0.490-1.705	24000/f(KHz)	30
1.705-30.0	30	30

- Remark: (1) Emission level  $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V}/\text{m}$   
 (2) In the emission table above, the tighter limit applies at the band edges.  
 (3) The limit 1.705MHz to 30MHz in clause 4.3 are specified at 30 meters, and measurements were made at 10 meters, the limit is translated to 10 meters by using a formula as follows: $\text{Limit}_{10\text{m}} = \text{Limit}_{30\text{m}} + 40\log(30\text{m}/10\text{m})$  or  $\text{Limit}_{10\text{m}} = \text{Limit}_{300\text{m}} + 40\log(300\text{m}/10\text{m})$

#### 4.4.EUT Configuration on Test

The configurations of EUT are listed in Section 3.4

#### 4.5.Operating Condition of EUT

Same as Conducted Emission test that is listed in Section 3.5. except the test set up replaced by Section 4.2.

#### 4.6. Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2013 on radiated emission Test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as the test photo indicated.

The bandwidth of the EMI test receiver (R&S FSV30) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

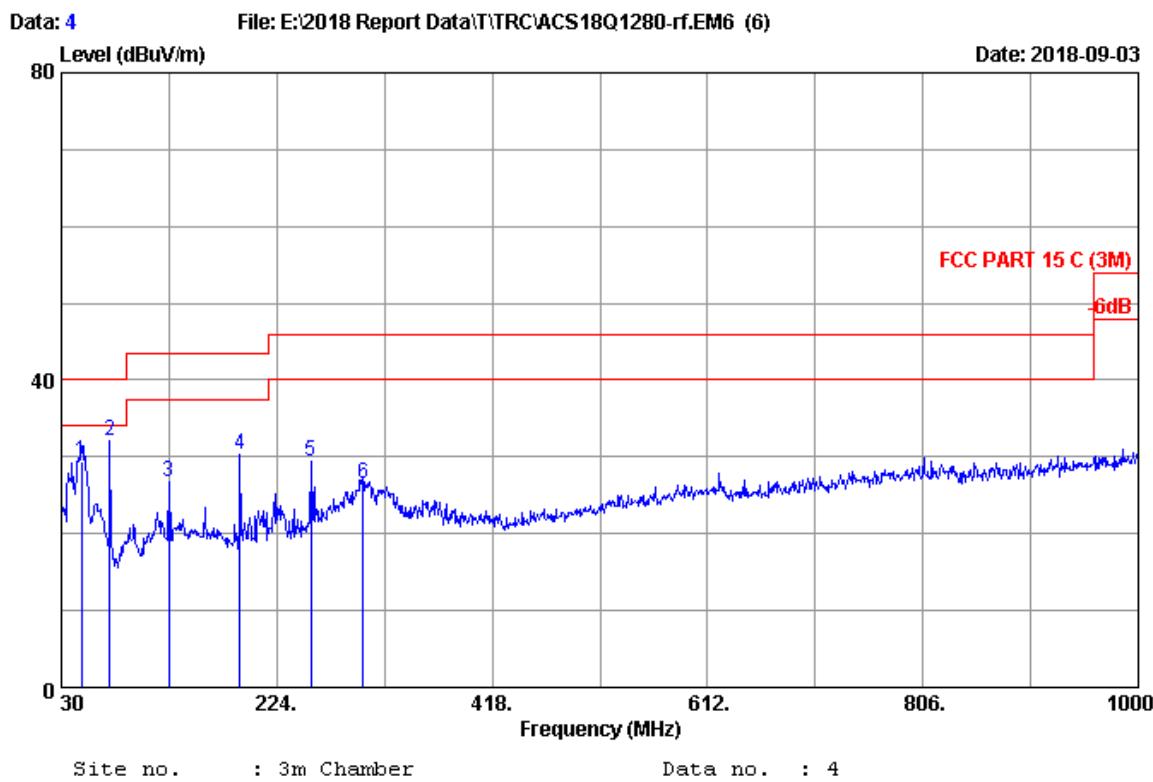
For emissions below 30MHz:

This test was performed on anechoic chamber with a conductive ground plane, EUT was put to 0.8m high turn table and at a distance of 10m from test antenna.

#### 4.7. Radiated Disturbance Test Results

**PASS.** (All emissions not reported below are too low against the prescribed limits.)

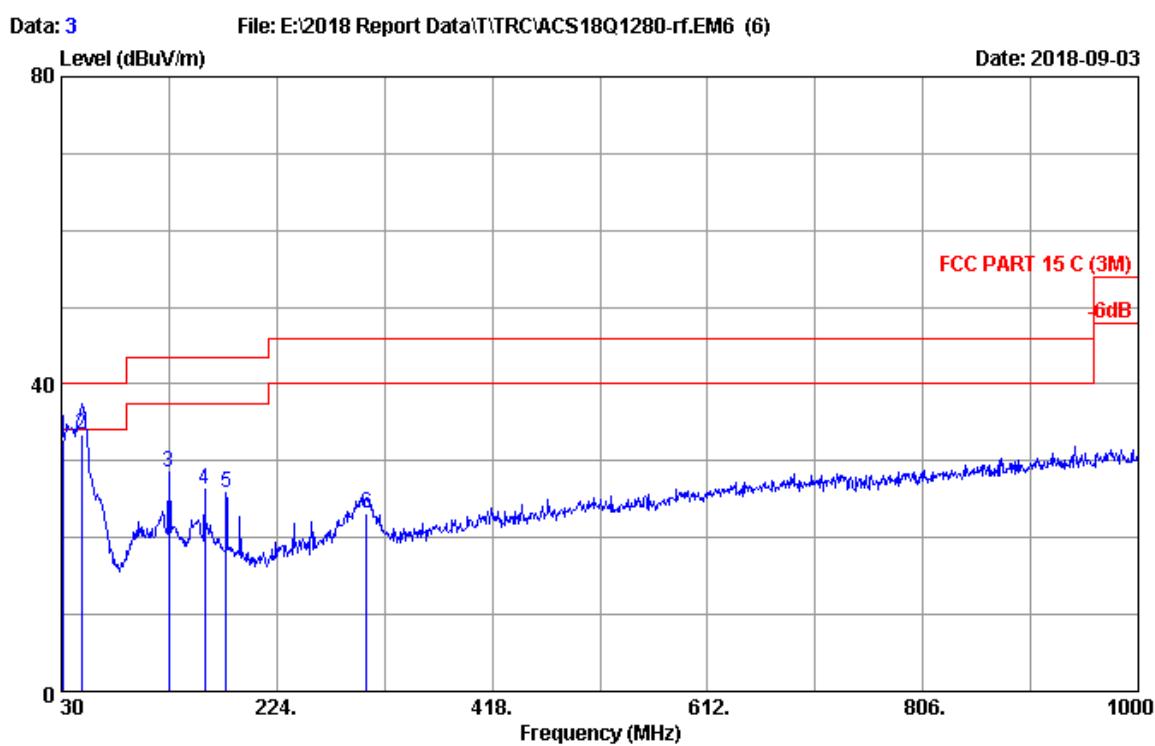
## 30MHz~1000MHz



Site no. : 3m Chamber Data no. : 4  
Dis. / Ant. : 3m 2018 VULB 9168-710 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15 C (3M)  
Env. / Ins. : 22.6°C/54% Engineer : Lynn  
EUT : Charger M/N:WM-01  
Power rating : AC 120V/60Hz  
Test Mode : Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	48.430	20.23	0.76	8.38	29.37	40.00	10.63	QP
2	73.650	17.14	0.94	14.11	32.19	40.00	7.81	QP
3	127.000	17.54	1.25	8.00	26.79	43.50	16.71	QP
4	191.020	17.90	1.59	10.88	30.37	43.50	13.13	QP
5	255.040	18.18	1.98	9.36	29.52	46.00	16.48	QP
6	301.600	19.84	2.26	4.40	26.50	46.00	19.50	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. The emission levels that are 20dB below the official limit are not reported.



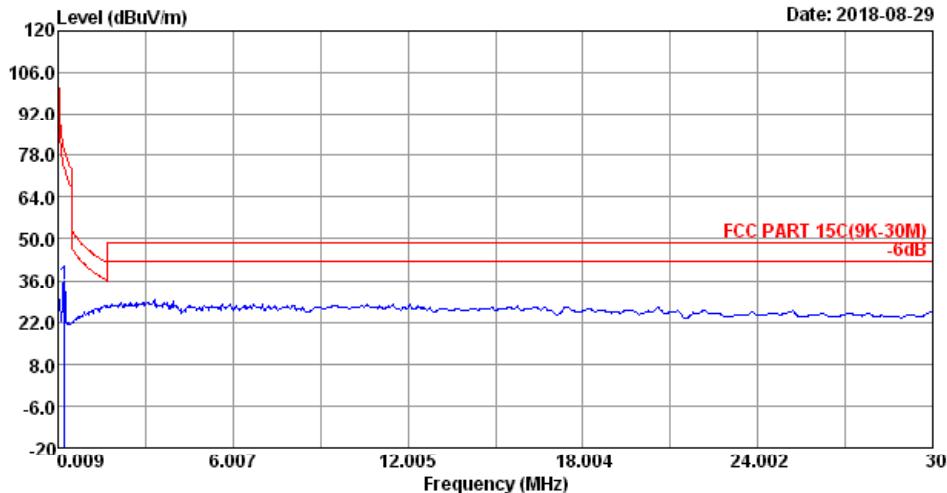
Site no. : 3m Chamber Data no. : 3  
Dis. / Ant. : 3m 2018 VULB 9168-710 Ant. pol. : VERTICAL  
Limit : FCC PART 15 C (3M)  
Env. / Ins. : 22.6°C/54% Engineer : Lynn  
EUT : Charger M/N:WM-01  
Power rating : AC 120V/60Hz  
Test Mode : Tx Mode

No.	Freq. (MHz)	Ant. Factor	Cable Loss (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.970	19.18	0.64	12.96	32.78	40.00	7.22	QP
2	48.430	20.23	0.76	12.36	33.35	40.00	6.65	QP
3	127.000	17.54	1.25	9.69	28.48	43.50	15.02	QP
4	159.010	19.77	1.42	5.05	26.24	43.50	17.26	QP
5	178.410	18.62	1.52	5.67	25.81	43.50	17.69	QP
6	304.510	19.91	2.28	1.03	23.22	46.00	22.78	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. The emission levels that are 20dB below the official limit are not reported.

**Below 30MHz**

Data: 26 File: E:\2018 Report Data\T\TRC\ACS18Q1280-RF.EM6 (26)



Site no. : 10m Chamber Data no. : 26  
 Dis. / Ant. : 10m 2018 6120 LOOP 10M Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C(9K-30M)  
 Env. / Ins. : 22.3°C/51% Engineer : Lynn  
 EUT : Charger M/N:WM-01  
 Power rating : AC 120V/60Hz  
 Test Mode : Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Margin Limits (dBuV/m)	Margin Limits (dB)	Remark
1	0.22	20.00	0.10	14.70	34.80	79.83	45.03	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official  
 limit are not reported.

## 5. 20 dB BANDWIDTH TEST

### 5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Sep.20,17	1 Year
2.	Attenuator (20dB)	Agilent	8491B	MY39262165	Oct.14,17	1 Year
3.	RF Cable	Hubersuhner	141	NO.1	Oct.14,17	1 Year

### 5.2. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

### 5.3. Test Procedure

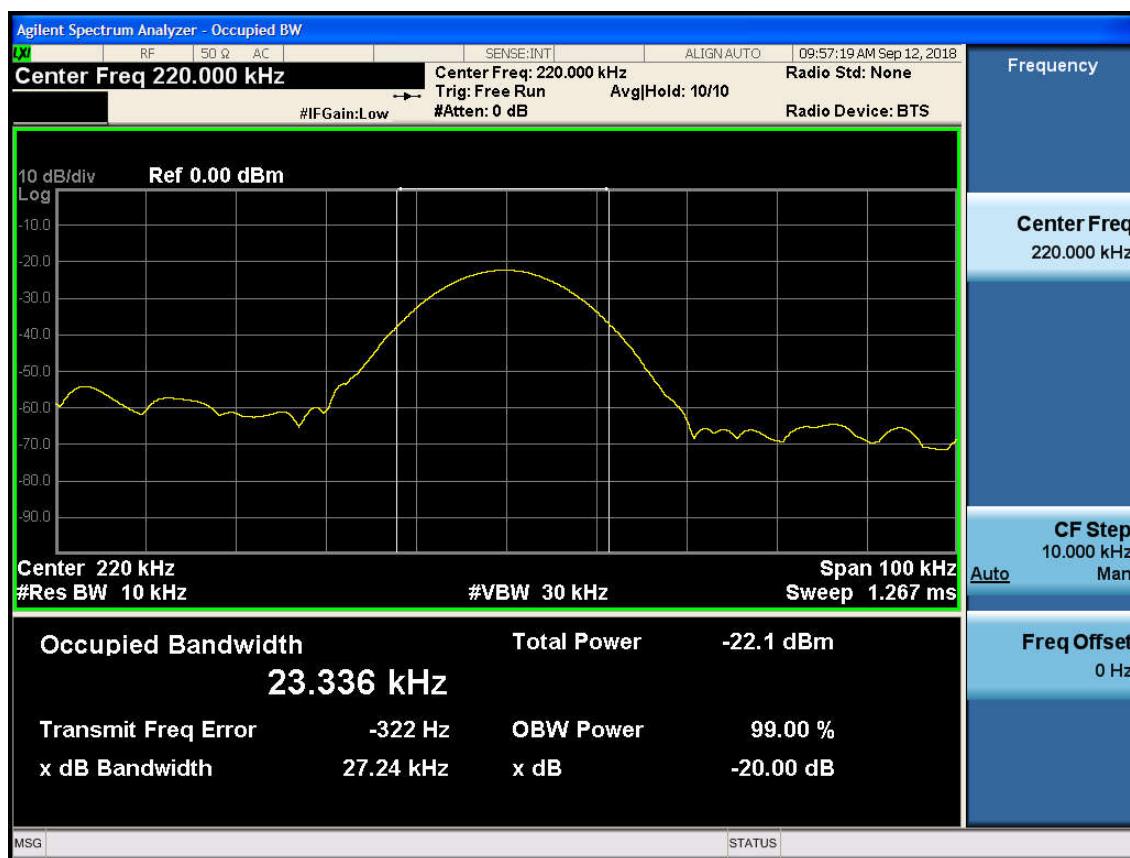
1. Connect the antenna port of the EUT to the spectrum analyzer.
2. Let the EUT transmit at Low/ Mid/ High channel with test software.
3. Setting of SA is following as: RBW: 10kHz / VBW: 300kHz  
 Sweep Mode: Continuous sweep  
 Detect mode: Positive peak  
 Trace mode: Max hold.
4. Use the occupied bandwidth function of the SA measure the 20dB bandwidth directly.

## 5.4. Test Results

EUT: Charger		
M/N: WM-01		
Date: 2018-09-12	Pressure: 102.8±1.0 kpa	Humidity: 52.7±3.0%
Tested by: Lynn	Test Site: RF site	Temperature: 22.6±0.6 °C

Test Mode	Frequency (kHz)	20dB bandwidth (kHz)	Limit (kHz)
Tx	220	27.24	N/A

Conclusion : PASS





FCC ID: 2AQ5X-WM-01

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## 6. DEVIATION TO TEST SPECIFICATIONS

[NONE]

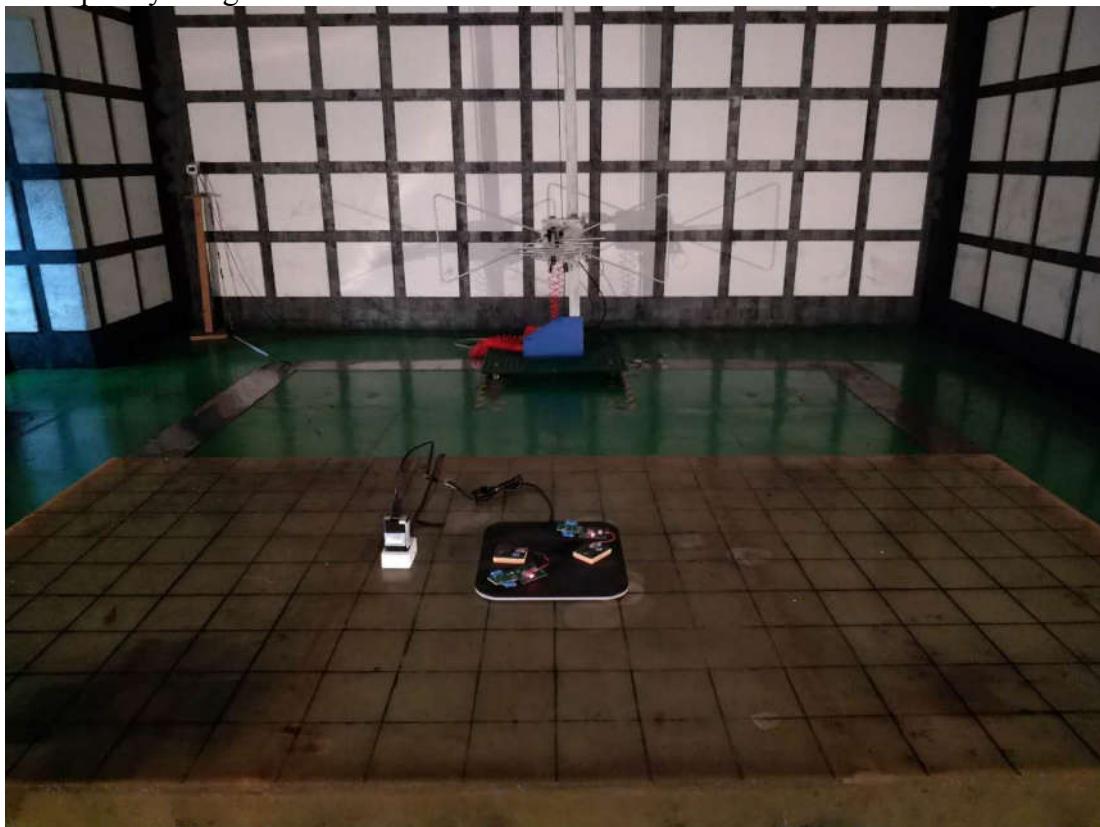
## 7. PHOTOGRAPH

### 7.1.Photos of Power Line Conducted Emission Test

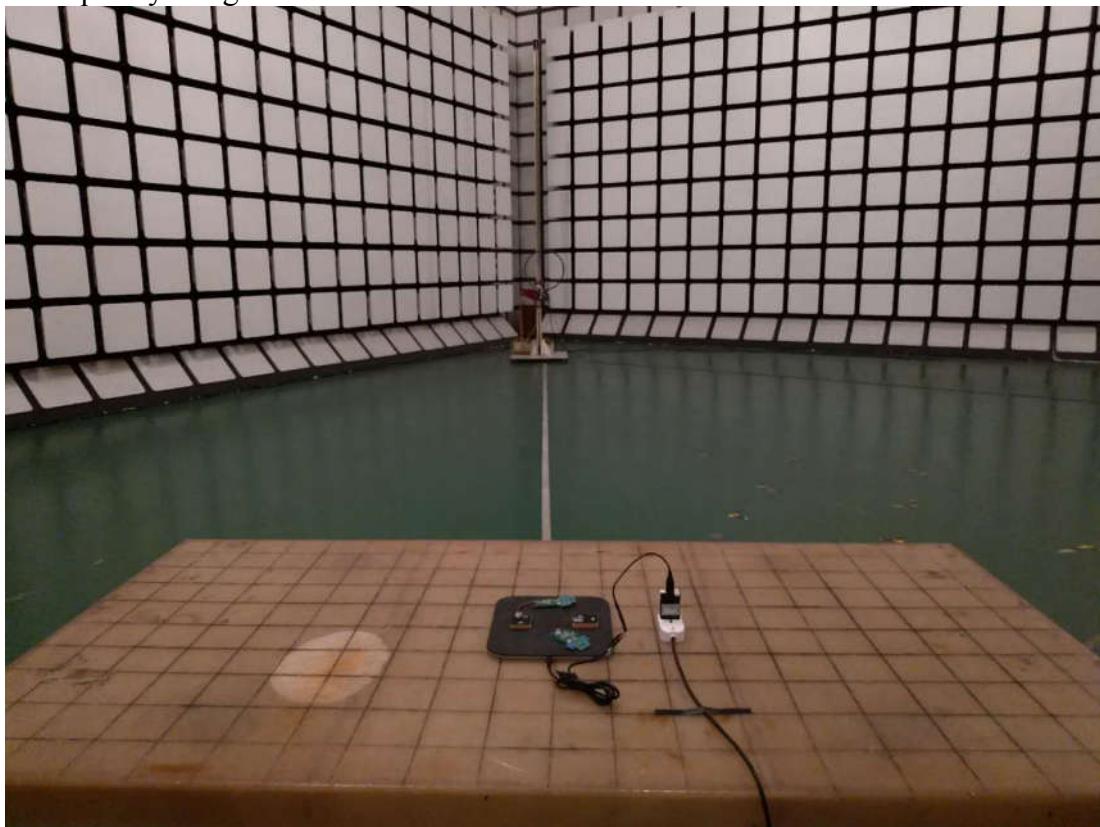


## 7.2.Photos of Radiated Emission Test

Frequency Range: 30-1000MHz



Frequency Range: Below 30MHz



## 8. PHOTOS OF THE EUT

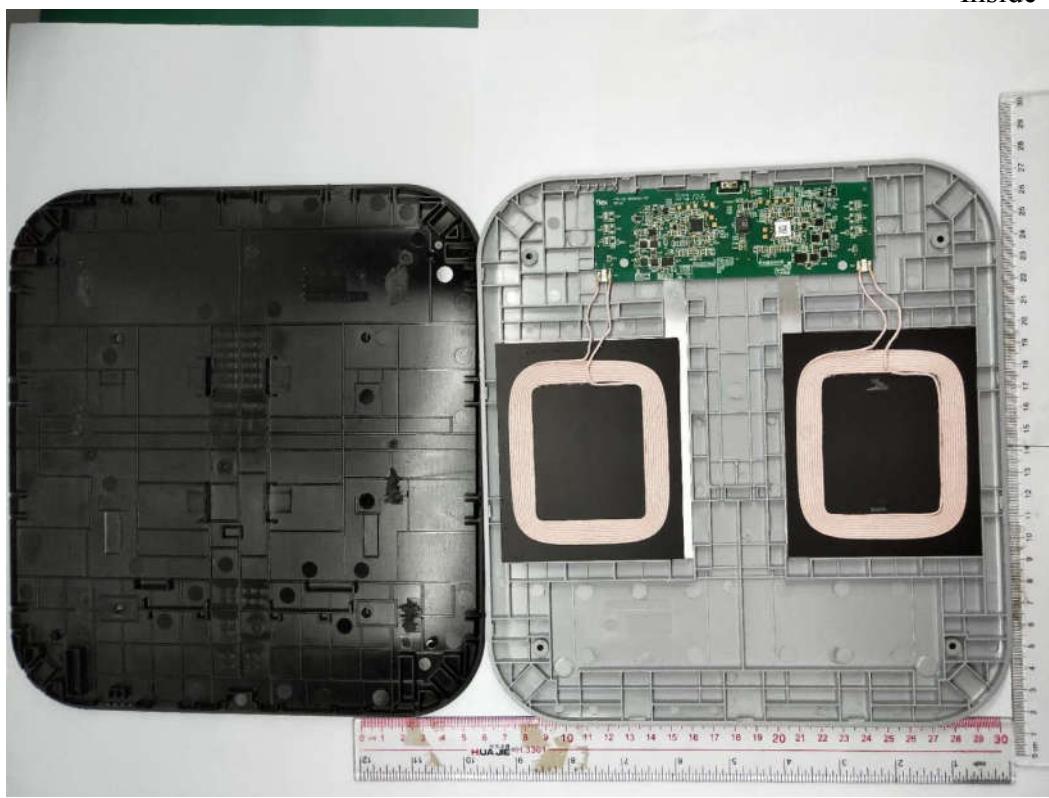
**Figure 1**  
General Appearance of the EUT



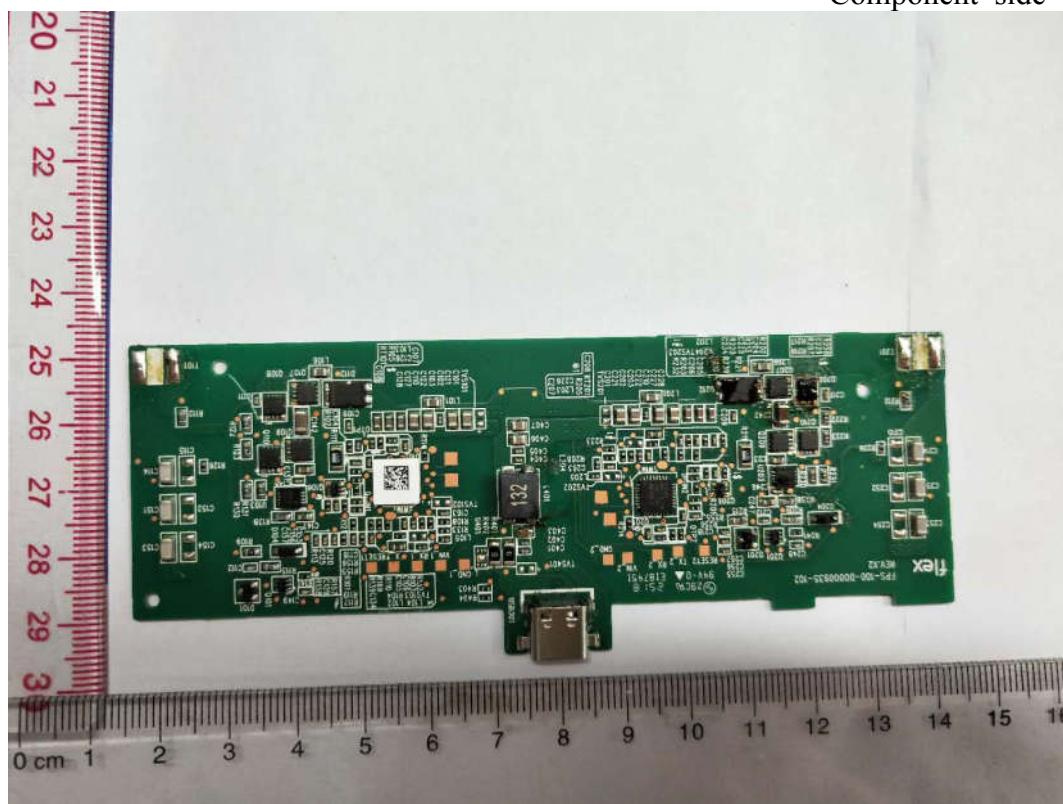
**Figure 2**  
General Appearance of the EUT

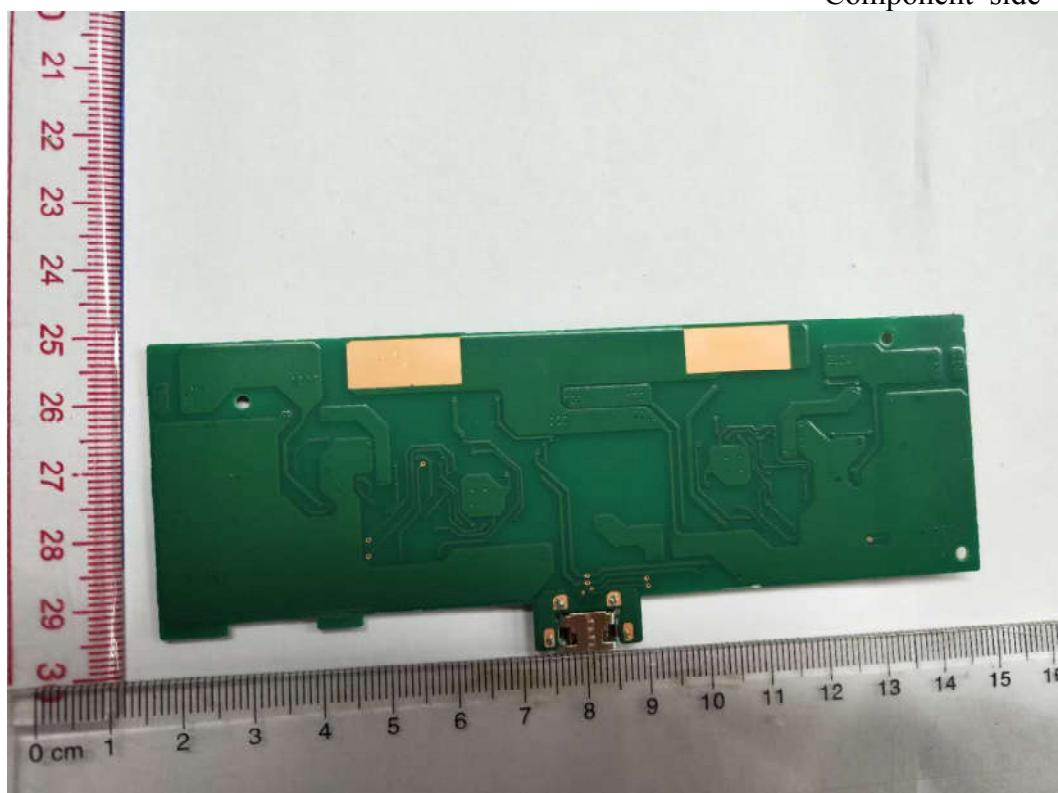


**Figure 3**  
Inside of the EUT



**Figure 4**  
Component side of the PCB





**Figure 5**  
Component side of the PCB