

## FCC - TEST REPORT

Report Number : **60.790.16.010.01A** Date of Issue : February 20, 2016

Model : **RDWL313A**

Product Type : **Doorbell**

Applicant : Honeywell International Inc.

Address : 1985 Douglas Drive North, Golden Valley, U.S.A

Production Facility : Ansen Electronics Company

Address : Chen Tung Industrial Zone, Ning Tau Administrative District, Qiao Tau Zhen, Dongguan, Guangdong, China

Test Result :  **Positive**  **Negative**

Total pages including Appendices : 19

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## 2 Description of Equipment Under Test

### Description of the Equipment Under Test

Product: Doorbell

Model no.: RDWL313A

FCC ID: HS9-RDWL313A

Rating: 6.0VDC (4 x 1.5VDC size "AA" Batteries)

Description: The EUT is considered as Superheterodyne Receiver, the operating frequency is 916.8MHz. More details of EUT technical specification please refer to the User's Manual.

## 3 Summary of Test Standards

### Test Standards

FCC Part 15 Subpart B 10-1-14 Edition  
Federal Communications Commission, PART 15 — Radio Frequency Devices,  
Subpart B — Unintentional Radiators

## 4 Details about the Test Laboratory

### Site 1

Company name: TÜV SÜD Hong Kong Ltd.  
 3/F, West Wing, Lakeside 2,  
 10 Science Park West Avenue,  
 Science Park, Shatin, Hong Kong

### Site 2

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch  
 Building 12&13 Zhiheng Wisdomland Business Park,  
 Nantou Checkpoint Road 2,  
 Shenzhen 518052, P.R.China  
 FCC Registration Number: 502708

Emission Tests	
Test Item	Test Site
<b>FCC Part 15 Subpart B</b>	
FCC Title 47 Part 15.109 Radiated Emission 30MHz-1000MHz	Site 2
FCC Title 47 Part 15.107 Conduct Emission 150kHz-30MHz	NIL

## 4.1 Test Equipment Site List

### Radiated emission Test – Site 2

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	17-Aug-16
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	17-Aug-17
Horn Antenna	Rohde & Schwarz	HF907	102294	17-Aug-17
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	17-Aug-16
3m Semi-anechoic chamber	TDK	9X6X6	----	29-May-19

## 4.2 Measurement System Uncertainty

### Measurement System Uncertainty Emissions

System Measurement Uncertainty	
Items	Extended Uncertainty
Uncertainty for Radiated Emission in 3m chamber 30MHz-1000MHz	Horizontal: 4.83dB; Vertical: 4.91dB;

## 5 Summary of Test Results

Emission Tests					
FCC Part 15 Subpart B	Test Condition	Pages	Test Result		
			Pass	Fail	N/A
	FCC Title 47 Part 15.109 Radiated Emission 30MHz-1000MHz	10-11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	FCC Title 47 Part 15.107 Conduct Emission 150kHz-30MHz	NIL	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## 6 General Remarks

### Remarks

NIL

### SUMMARY:

- All tests according to the regulations cited on page 5 were

- Performed

- **Not** Performed

- The Equipment Under Test

- **Fulfills** the general approval requirements.

- **Does not** fulfill the general approval requirements.

Sample Received Date: January 26, 2016

Testing Start Date: January 27, 2016

Testing End Date: February 1, 2016

- TÜV SÜD HONG KONG LTD. -

Reviewed by:



TSENG Chi Kit  
EMC Project Engineer

Prepared by:



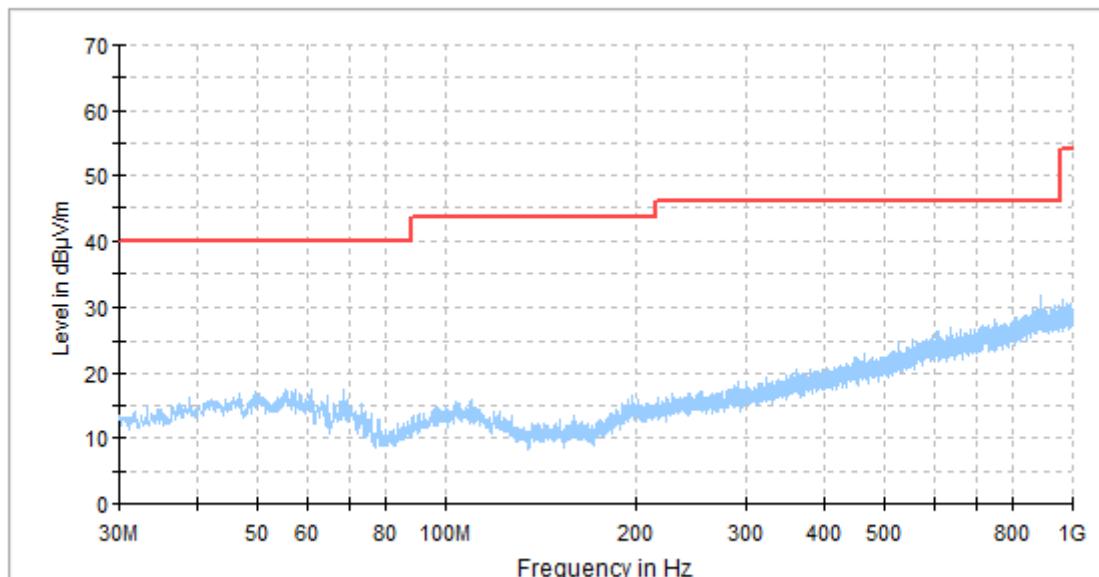
CHAN Kwong Ngai  
EMC Test Engineer

## 7 Emission Test Results

### 7.1 Radiated Emission

EUT: RDWL313A  
 Op Condition: Operating, Normal Link  
 Test Specification: Antenna: Horizontal  
 Comment: 6.0VDC

Test Result  
 Passed  
 Not Passed

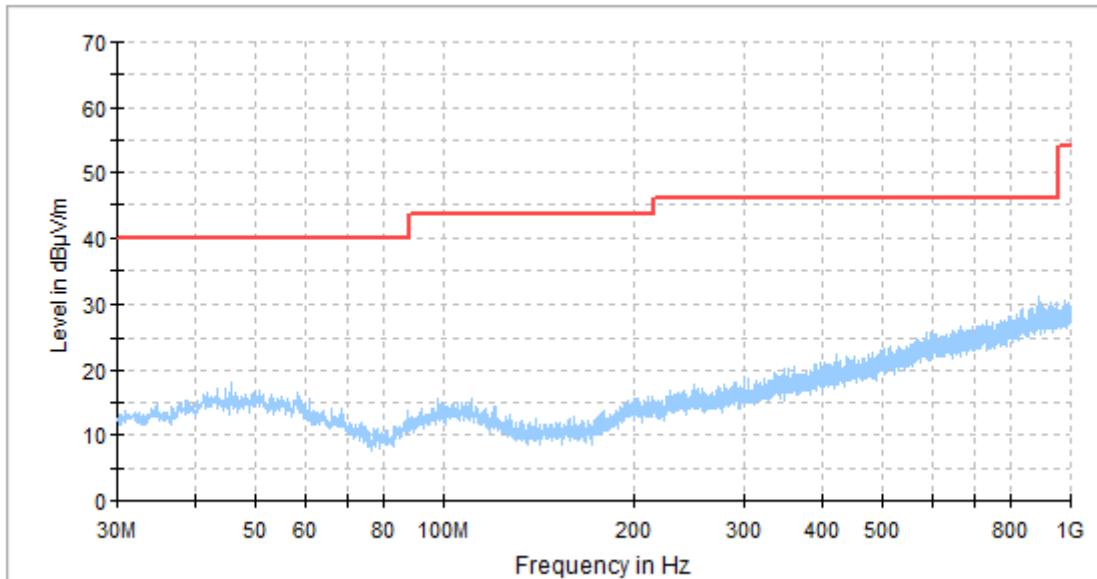


Frequency MHz	QP dB $\mu$ V/m	Limit dB $\mu$ V/m	Margin dB
55.430	17.63	40	-22.37
66.873	17.56	40	-22.44

## Radiated Emission

EUT: RDWL313A  
 Op Condition: Operated, Normal Link  
 Test Specification: Antenna: Vertical  
 Comment: 6.0VDC

Test Result  
 Passed  
 Not Passed

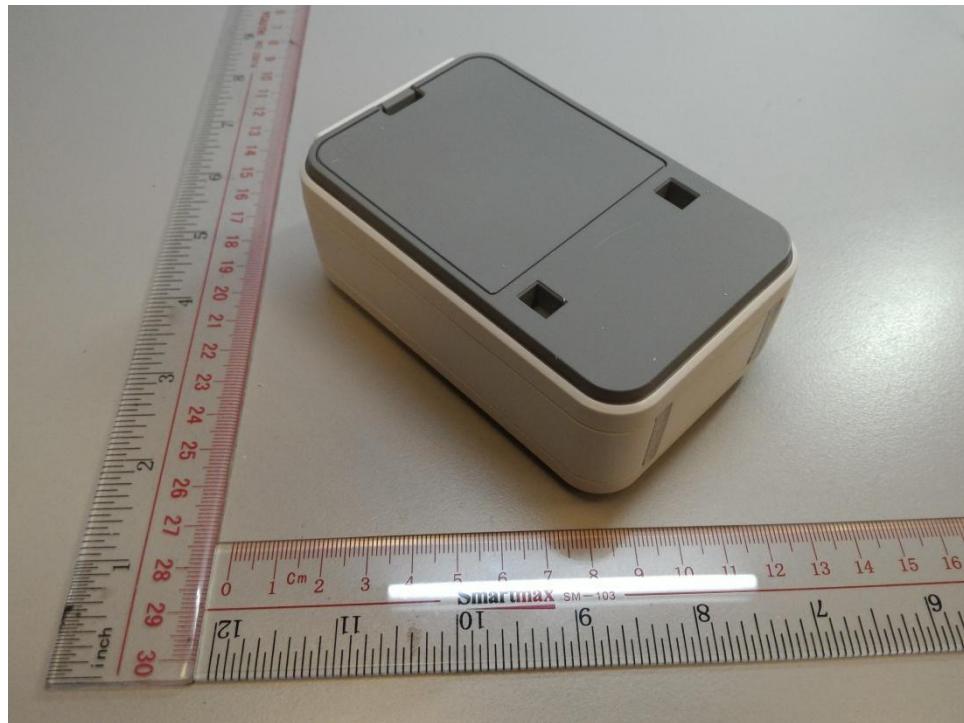


Frequency MHz	QP dB $\mu$ V/m	Limit dB $\mu$ V/m	Margin dB
45.820	17.76	40	-22.24
58.920	16.42	40	-23.58

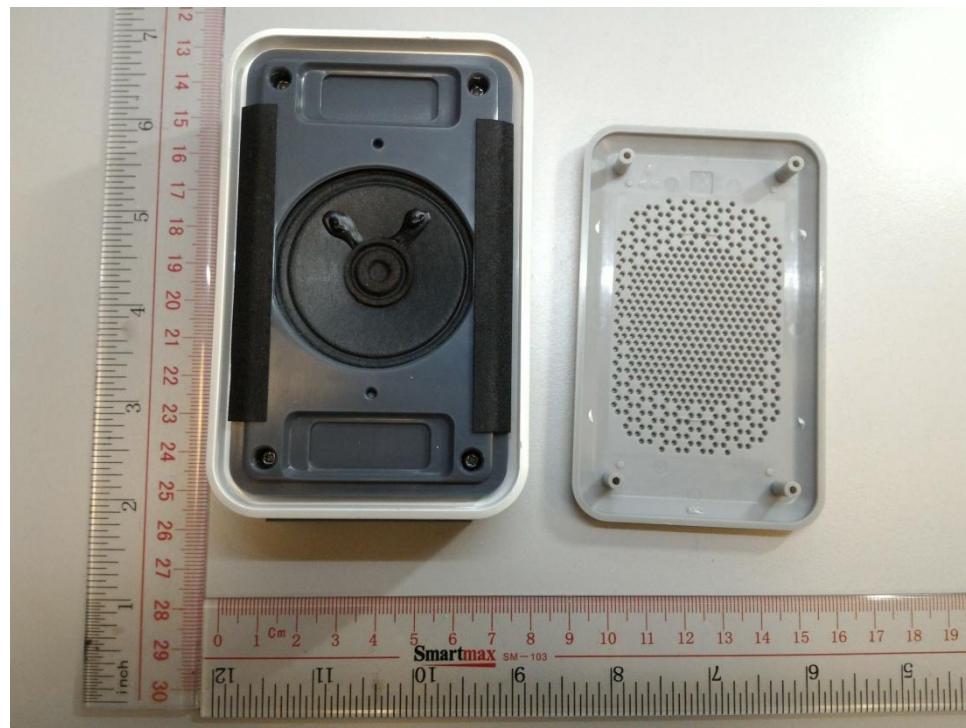
## 8 Appendix A - Photographs of EUT



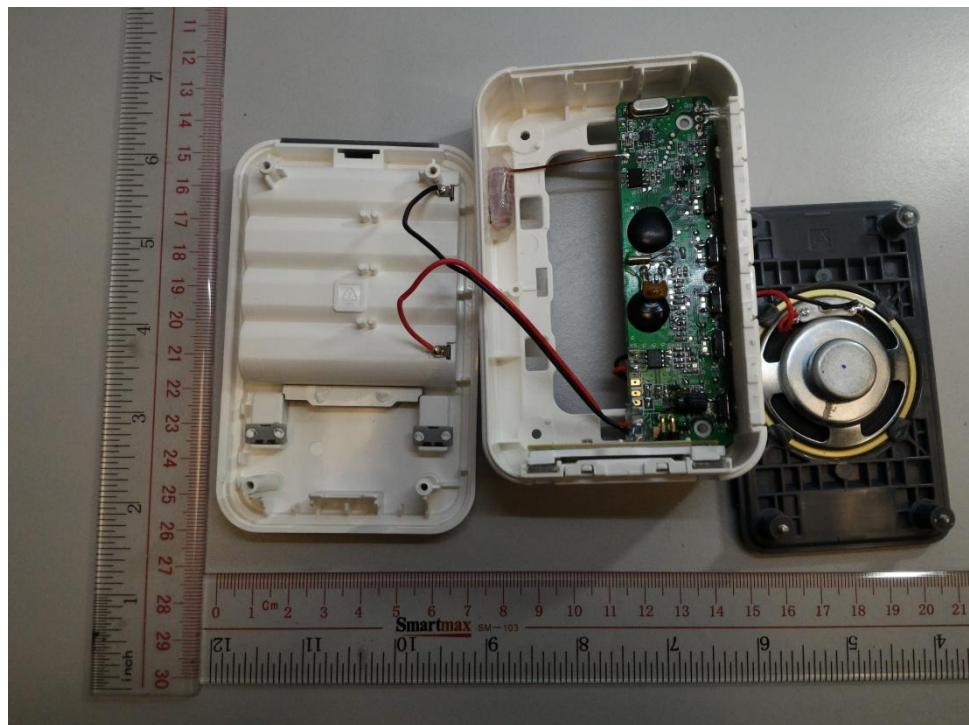
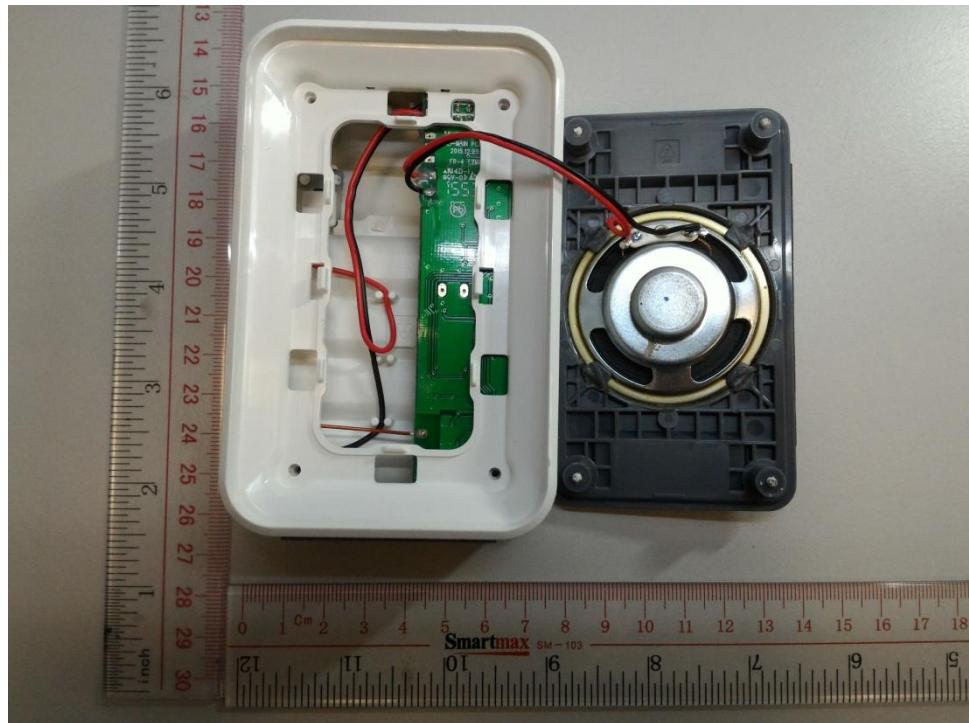
## Appendix A



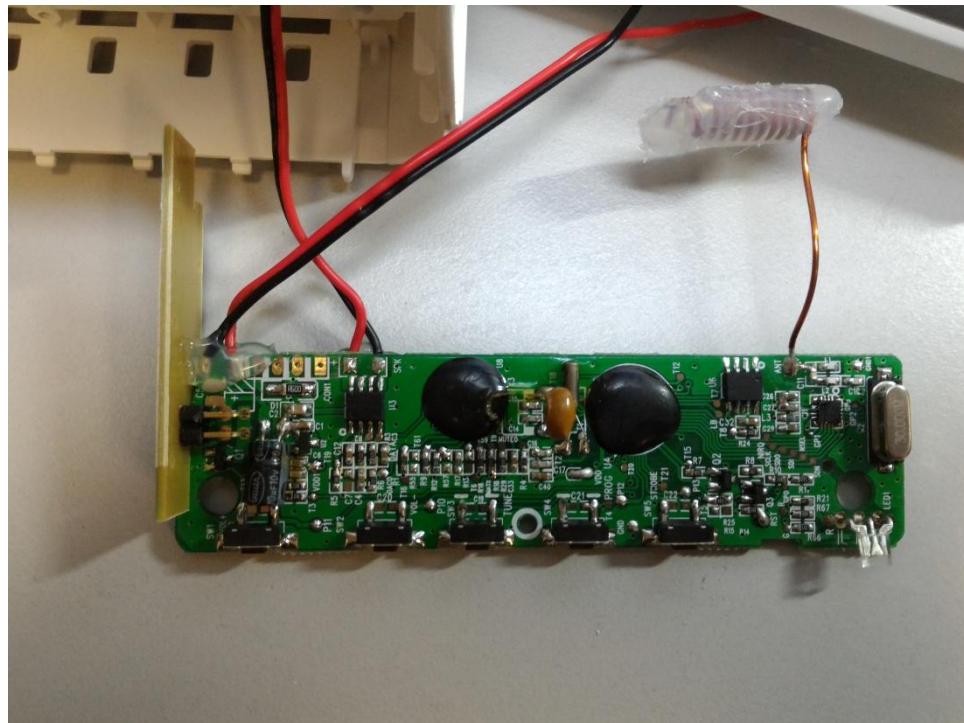
## Appendix A



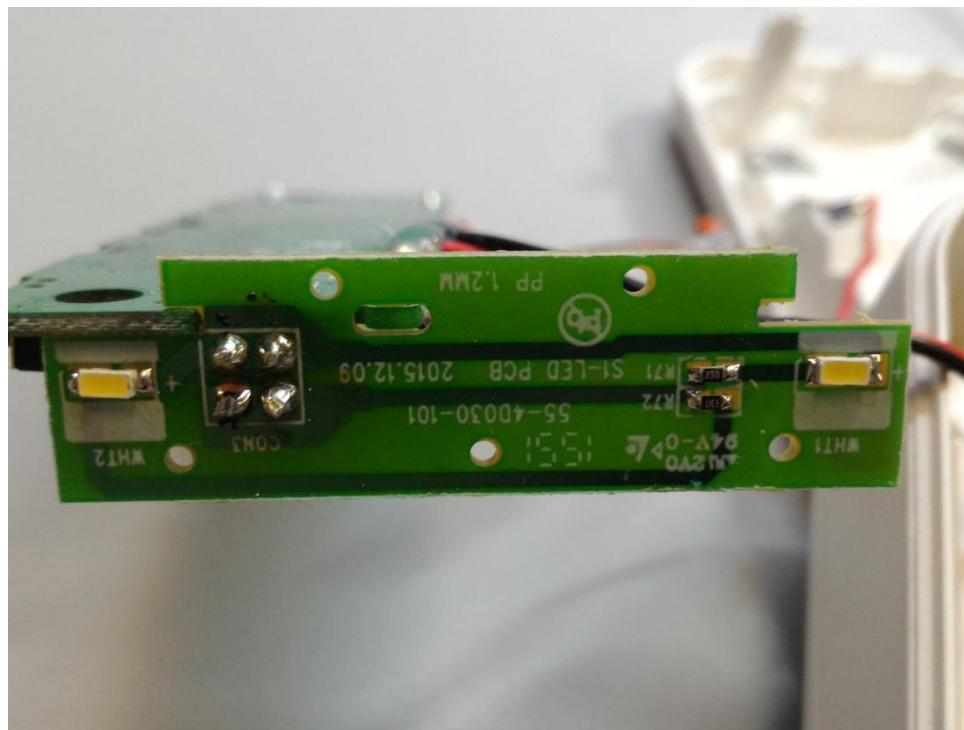
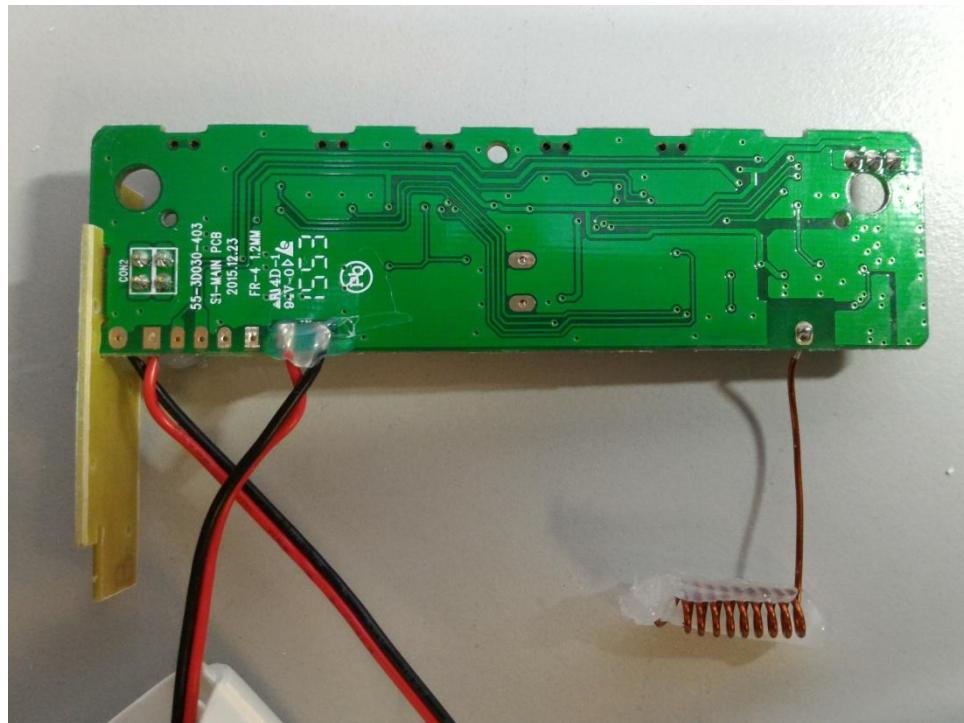
## Appendix A



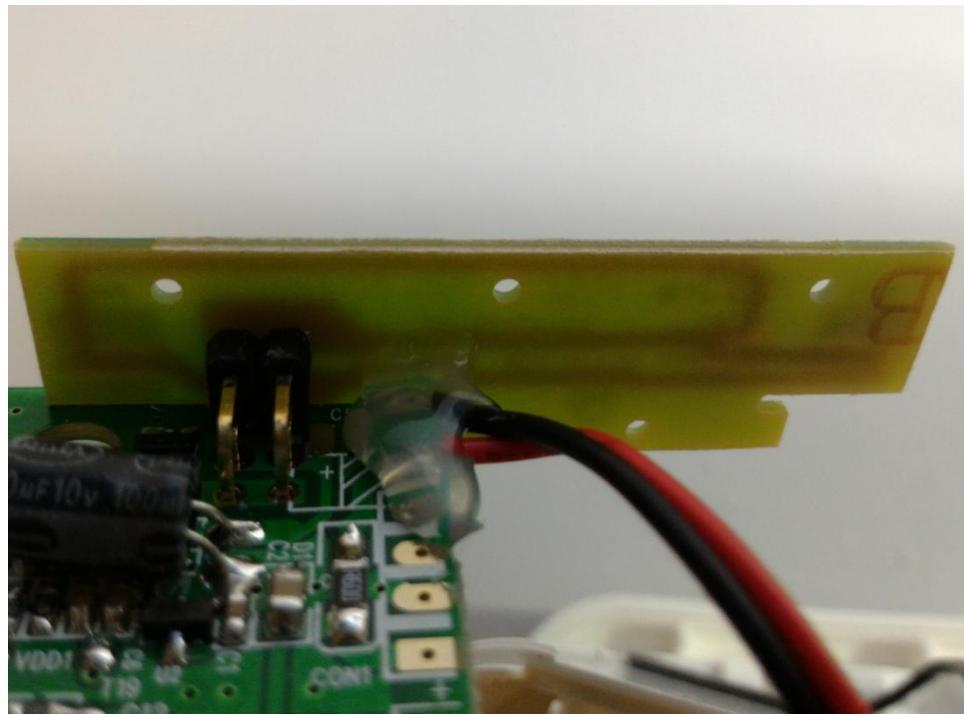
## Appendix A



## Appendix A



## Appendix A



## 9 Appendix B - Setup Photographs of EUT

### Radiated Emission

