

# RF TEST REPORT



Report No.: 15020860-FCC-R1

Supersede Report No.: N/A

Applicant	Beijing Jia An Electronic Technology Co.,Ltd.	
Product Name	Transmitter	
Main Model	T306	
Serial Model	T306-2	
Test Standard	FCC Part 15.231: 2014, ANSI C63.10: 2013	
Test Date	August 21, 2015	
Issue Date	August 25, 2015	
Test Result	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail
Equipment complied with the specification		<input checked="" type="checkbox"/>
Equipment did not comply with the specification		<input type="checkbox"/>
Amos. Xia	Herve Idoko	
Amos Xia Test Engineer	Herve Idoko Checked By	
<p>This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only</p>		

Issued by:

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## Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

### Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC , RF/Wireless , Telecom
Canada	EMC, RF/Wireless , Telecom
Taiwan	EMC, RF, Telecom , Safety
Hong Kong	RF/Wireless , Telecom
Australia	EMC, RF, Telecom , Safety
Korea	EMI, EMS, RF , Telecom, Safety
Japan	EMI, RF/Wireless, Telecom
Singapore	EMC , RF , Telecom
Europe	EMC, RF, Telecom , Safety

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## 1. Report Revision History

Report No.	Report Version	Description	Issue Date
15020860-FCC-R1	NONE	Original	August 25, 2015

## 2. Customer information

Applicant Name	Beijing Jia An Electronic Technology Co.,Ltd.
Applicant Address	No.19 GuCheng West Street,Shi Jing Shan District,Beijing 100043, China
Manufacturer Name	Beijing Jia An Electronic Technology Co.,Ltd.
Manufacturer Address	No.19 GuCheng West Street,Shi Jing Shan District,Beijing 100043, China

## 3. Test site information

Lab performing tests	SIEMIC (Nanjing-China) Laboratories
Lab Address	2-1 Longcang Avenue Yuhua Economic and Technology Development Park, Nanjing, China
FCC Test Site No.	986914
IC Test Site No.	4842B-1
Test Software	Labview of SIEMIC version 1.0

#### 4. Equipment Under Test (EUT) Information

Description of EUT: Transmitter

Main Model: T306

Serial Model: T306-2

Date EUT received: August 17, 20145

Test Date(s): August 21, 2015

Antenna Gain: 3 dBi

Type of Modulation: ASK

RF Operating Frequency (ies): Tx:433.97MHz

Number of Channels: 1 CH

Port: N/A

Input Power: DC: 12V

Trade Name : N/A

FCC ID: VVJ-T306R434

## 5. Test Summary

The product was tested in accordance with the following specifications.  
 All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207	Conducted Emissions Voltage	N/A
§15.231(b)	Fundamental & Radiated Spurious Emission	Compliance
§15.231(c)	20dB Bandwidth	Compliance
§15.231(a)(1)	Deactivation	Compliance

Note: Preliminary radiated emission testing has been performed on X, Y, Z axis, only worst case test result is presented in this test report.

### Measurement Uncertainty

Emissions		
Test Item	Description	Uncertainty
Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB

## **6. Measurements, Examination And Derived Results**

### **6.1 Antenna Requirement**

#### **Applicable Standard**

Requirement(s): 47 CFR §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna requirement must meet at least one of the following:

- a) Antenna must be permanently attached to the device.
- b) Antenna must use a unique type of connector to attach to the device.
- c) Device must be professionally installed. Installer shall be responsible for ensuring that the correct antenna is employed with the device.

The antenna is permanently attached to the device which meets the requirement.

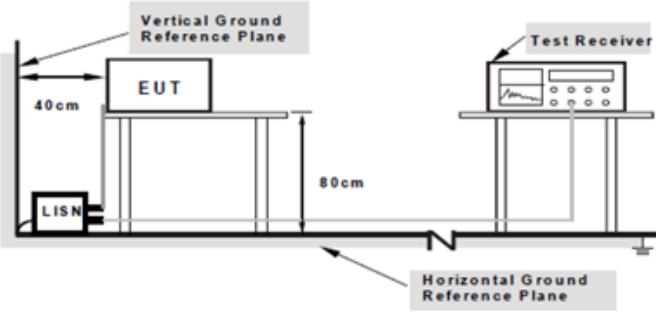
Result: Compliance.

## 6.2 AC Conducted Emissions Voltage

Temperature	---°C
Relative Humidity	---%
Atmospheric Pressure	---mbar
Test date :	---
Tested By :	Amos Xia

### Conducted Emission Limit

Frequency ranges (MHz)	Limit (dB $\mu$ V)	
	QP	Average
0.15 ~ 0.5	66 – 56	56 – 46
0.5 ~ 5	56	46
5 ~ 30	60	50

Spec	Item	Requirement	Applicable
47CFR§15.20 7, RSS210 (A8.1)	a)	For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [mu]H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequency ranges.	<input checked="" type="checkbox"/>
Test Setup	 <p><b>Note:</b>        1. Support units were connected to second LISN.        2. Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.</p>		
Procedure	<ul style="list-style-type: none"> <li>The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in Annex B.</li> <li>The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains.</li> <li>The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.</li> <li>All other supporting equipment were powered separately from another main supply.</li> </ul>		
Remark			
Result	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>

Test Data  Yes  N/A

Test Plot  Yes (See below)  N/A

#### Data sample

Frequency (MHz)	Quasi-Peak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Factors (dB)
xxx	56.21	66.00	-9.79	39.20	56.00	-16.80	12.22

Frequency (MHz) = Emission frequency in MHz

Quasi-Peak/Average (dB $\mu$ V/m)=Receiver Reading(dB $\mu$ V/m)+ Factor(dB)

Limit(dB $\mu$ V/m)=Limit stated in standard

Factor (dB)= cable loss+ Insertion loss of LISN+ Insertion loss of transient limiter (The transient limiter included 10dB attenuation)

#### Calculation Formula:

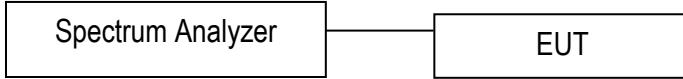
Margin (dB)=Quasi Peak / Average (dB $\mu$ V/m) – limit (dB $\mu$ V/m)

Note: Power Supply by battery

## 6.3 20dB Occupied Bandwidth

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	August 21, 2015
Tested By :	Amos Xia

Requirement(s):

Spec	Item	Requirement	Applicable
§15.231(c)	a)	The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz.	<input checked="" type="checkbox"/>
	b)	For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency.	<input type="checkbox"/>
Test Setup			
Test Procedure	<p><u>20dB Emission bandwidth measurement procedure</u></p> <ul style="list-style-type: none"> <li>- Set RBW = 100 kHz.</li> <li>- Set the video bandwidth (VBW) <math>\geq 3 \times</math> RBW.</li> <li>- Detector = Peak.</li> <li>- Trace mode = max hold.</li> <li>- Sweep = auto couple.</li> <li>- Allow the trace to stabilize.</li> </ul> <p>Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.</p>		
Remark			
Result	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail	

Test Data  Yes  N/A

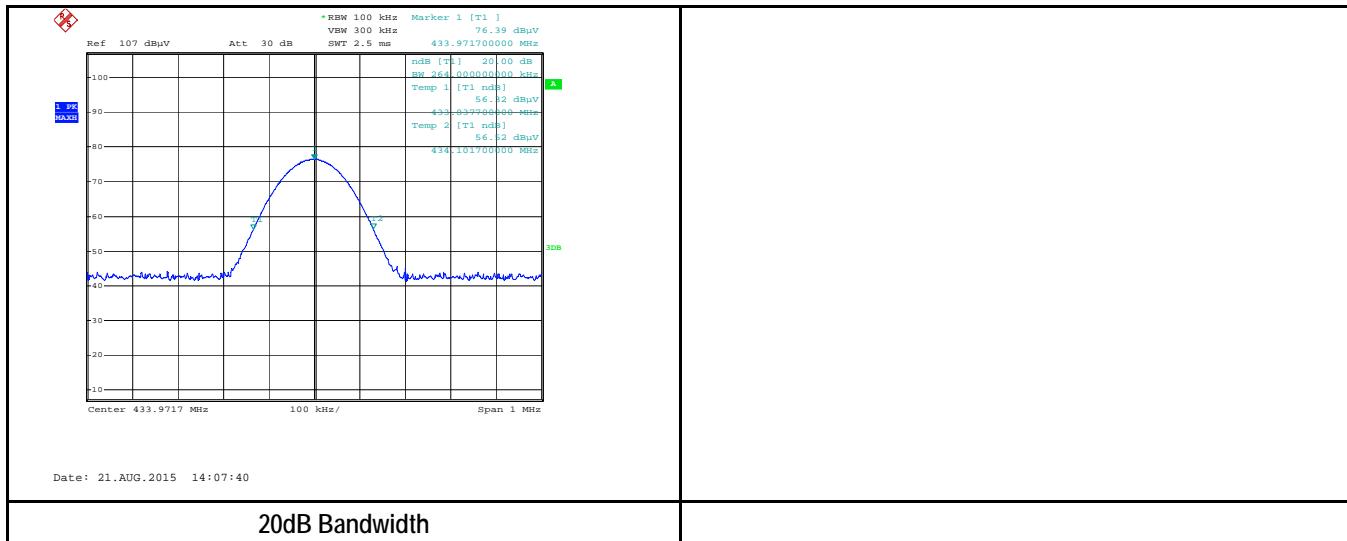
Test Plot  Yes  N/A

## 20dB Bandwidth measurement result

Type	Freq (MHz)	CH	Measured 20dB Bandwidth (kHz)	Limit (kHz)	Result
20dB BW	433.97	1 CH	264.00	1084.93	Pass

## Test Plots

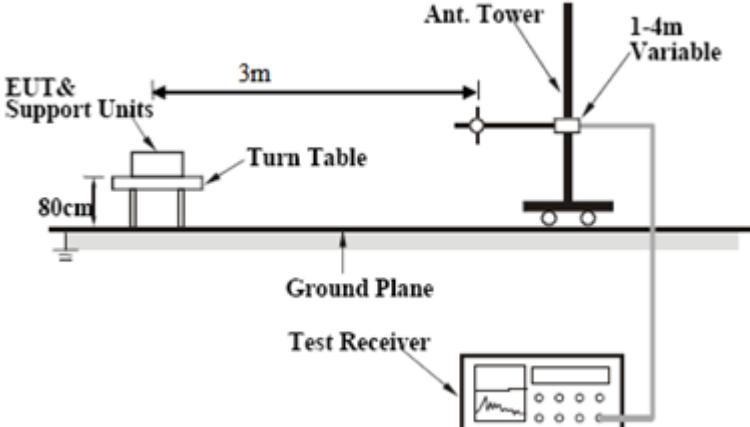
## 20dB Bandwidth measurement result

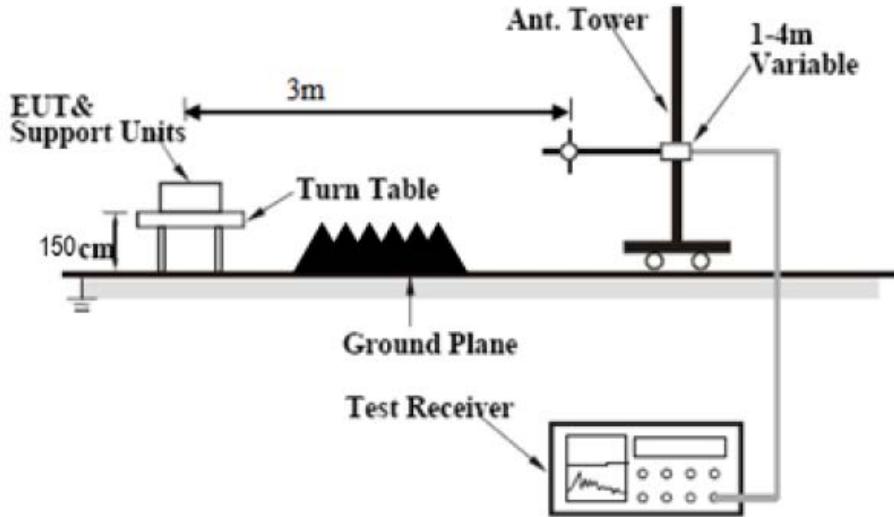


## 6.4 Radiated Fundamental and Spurious Emission

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	August 21, 2015
Tested By :	Amos Xia

Requirement(s):

Spec	Item	Requirement	Applicable																					
§15.231(b)	a)	<p>Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges</p> <table border="1"> <thead> <tr> <th>Fundamental frequency (MHz)</th> <th>Field strength of fundamental (microvolts/meter)</th> <th>Field strength of spurious emissions (microvolts/meter)</th> </tr> </thead> <tbody> <tr> <td>40.66-40.70</td> <td>2250</td> <td>225</td> </tr> <tr> <td>70-130</td> <td>1250</td> <td>125</td> </tr> <tr> <td>130-174</td> <td>1250 to 3750</td> <td>125 to 375</td> </tr> <tr> <td>174-260</td> <td>3750</td> <td>375</td> </tr> <tr> <td>260-470</td> <td>3750-12500</td> <td>375 to 1250</td> </tr> <tr> <td>Above 470</td> <td>12500</td> <td>1250</td> </tr> </tbody> </table> <p>Note: All 3 axes have been investigated. Only worst case is presented in the test report.</p>	Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)	40.66-40.70	2250	225	70-130	1250	125	130-174	1250 to 3750	125 to 375	174-260	3750	375	260-470	3750-12500	375 to 1250	Above 470	12500	1250	<input checked="" type="checkbox"/>
Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)																						
40.66-40.70	2250	225																						
70-130	1250	125																						
130-174	1250 to 3750	125 to 375																						
174-260	3750	375																						
260-470	3750-12500	375 to 1250																						
Above 470	12500	1250																						
Test Setup		<p>A: &lt; 1GHz</p>  <p>B: &gt;1GHz</p>																						

	 <p>The diagram illustrates the test setup. A 'Turn Table' is positioned on a 'Ground Plane'. A '150 cm' vertical dimension is indicated from the turn table to the ground plane. An 'EUT &amp; Support Units' assembly is mounted on the turn table. A '3m' horizontal distance is shown from the EUT assembly to an 'Ant. Tower'. The 'Ant. Tower' is connected to a '1-4m Variable' antenna. A 'Test Receiver' is connected to the system, with its display showing a waveform.</p>
Procedure	<ol style="list-style-type: none"> <li>1. The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>2. The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:           <ol style="list-style-type: none"> <li>a. Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> <li>b. The EUT was then rotated to the direction that gave the maximum emission.</li> <li>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</li> </ol> </li> <li>3. A Quasi-peak measurement was then made for that frequency point.</li> <li>4. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</li> </ol>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data     Yes       N/A

Test Plot     Yes (See below)       N/A

### Fundamental Measurement Result

Frequency (MHz)	Reading	Factors	Azimuth	Polarity	Height	correct (dB $\mu$ V/m)	Limit (dB $\mu$ V)	Margin	Comments
433.97	91.33	-28.34	215.4	V	2	62.99	100.8	-37.81	Pk
433.97	-	-	-	V	-	57.85	80.8	-22.95	Ave
433.97	96.73	-28.62	117.5	H	2	63.99	100.8	-36.81	Pk
433.97	-	-	-	H	-	58.85	80.8	-21.95	Ave

### Spurious Emissions (< 1GHz) Measurement Result

Frequency (MHz)	Reading	Factors	Azimuth	Polarity	Height	correct (dB $\mu$ V/m)	Limit (dB $\mu$ V)	Margin	Comments
867.94	64.06	-18.16	296	V	1	45.9	80.8	-34.9	Pk
867.94	-	-	-	V	-	40.76	60.8	-20.04	Ave
867.94	68.32	-19.3	53.1	H	1	46.9	80.8	-33.9	Pk
867.94	-	-	-	H	-	41.76	60.8	-19.04	Ave

#### Notes:

1. Duty cycle is 55.36%,  $20\log(\text{duty cycle}) = -5.14\text{dB}$  correction was used to determine the average level from the peak reading.  
Average = peak reading +  $20\log(\text{duty cycle})$ , Final Average = peak reading -  $5.14\text{dB}$
2. All the data measurement of peak values.
3. FCC Limit for Average Measurement =  $41.67^* (433.97\text{MHz}) - 7083.3333 = 11000.2\mu\text{V/m} = 80.8\text{dB}\mu\text{V/m}$
4. Average pulsed signal over one complete pulse train or 100 ms time frame if pulse train exceeds 100 ms
5. Maximum average in 100 ms
6. Calculate duty cycle for pulse train or 100 ms
7. Duty cycle =  $(t_1 + t_2 + t_3 + \dots + t_n)/T$  where  $t_n$  = pulse width,  $T$  = pulse train length or 100 ms

### Spurious Emissions (>1GHz) Measurement Result

Frequency	Reading	Direction	Height	Polar	Factors (dB)	Amplifier	Cord. Amp.	FCC 15.231	Margin	Comments
MHz	(dBmV/m)	Degree	Meter	H/V	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	(dB)	(Pk/Ave)
1.302	67.18	154.00	2.00	H	-25.85	55	41.33	80.8	-39.47	Peak
1.302	-	-	-	H	-	-	36.19	60.8	-24.61	Ave
1.736	62.57	245.00	2.00	H	-23.33	55	39.24	80.8	-41.56	Peak
1.736	-	-	-	H	-	-	34.1	60.8	-26.7	Ave
2169	58.33	68.00	2.00	H	-20.66	55	37.67	80.8	-43.13	Peak
2169	-	-	-	H	-	-	32.53	60.8	-28.27	Ave
2.603	63.33	235.00	2.00	H	-18.42	55	44.91	80.8	-35.89	Peak
2.603	-	-	-	H	-	-	39.77	60.8	-21.03	Ave
3.037	62.93	93.00	2.00	H	-15.46	55	47.47	80.8	-33.33	Peak
3.037	-	-	-	H	-	-	42.33	60.8	-18.47	Ave
3.471	54.58	168.00	2.00	H	-11.48	55	43.1	80.8	-37.7	Peak
3.471	-	-	-	H	-	-	37.96	60.8	-22.84	Ave
3.905	49.85	252.00	2.00	H	-9.25	55	40.6	80.8	-40.2	Peak
3.905	-	-	-	H	-	-	35.46	60.8	-25.34	Ave
4.338	46.09	213.00	2.00	H	-6.73	55	39.36	80.8	-41.44	Peak
4.338	-	-	-	H	-	-	34.22	60.8	-26.58	Ave
1.302	65.57	310.00	1.00	V	-25.85	55	39.72	80.8	-41.08	Peak
1.302	-	-	-	V	-	-	34.58	60.8	-26.22	Ave
1.736	64.19	122.00	1.00	V	-23.33	55	40.86	80.8	-39.94	Peak
1.736	-	-	-	V	-	-	35.72	60.8	-25.08	Ave
2169	60.51	221.00	1.00	V	-20.66	55	39.85	80.8	-40.95	Peak
2169	-	-	-	V	-	-	34.71	60.8	-26.09	Ave
2.603	64.86	68.00	1.00	V	-18.42	55	46.44	80.8	-34.36	Peak
2.603	-	-	-	V	-	-	41.3	60.8	-19.5	Ave
3.037	64.51	41.00	1.00	V	-15.46	55	49.05	80.8	-31.75	Peak
3.037	-	-	-	V	-	-	43.91	60.8	-16.89	Ave
3.471	56.33	324.00	1.00	V	-11.48	55	44.85	80.8	-35.95	Peak
3.471	-	-	-	V	-	-	39.71	60.8	-21.09	Ave
3.905	52.25	153.00	1.00	V	-9.25	55	43	80.8	-37.8	Peak
3.905	-	-	-	V	-	-	37.86	60.8	-22.94	Ave
4.338	48.83	286.00	1.00	V	-6.73	55	42.1	80.8	-38.7	Peak
4.338	-	-	-	V	-	-	36.96	60.8	-23.84	Ave

Note: Duty cycle is 55.36%, 20log (duty cycle) = -5.14dB correction was used to determine the average level from the peak reading.

Average = peak reading + 20log (duty cycle), final Average= peak reading -5.14dB

Note:

Narrow Pulse: 0.92ms

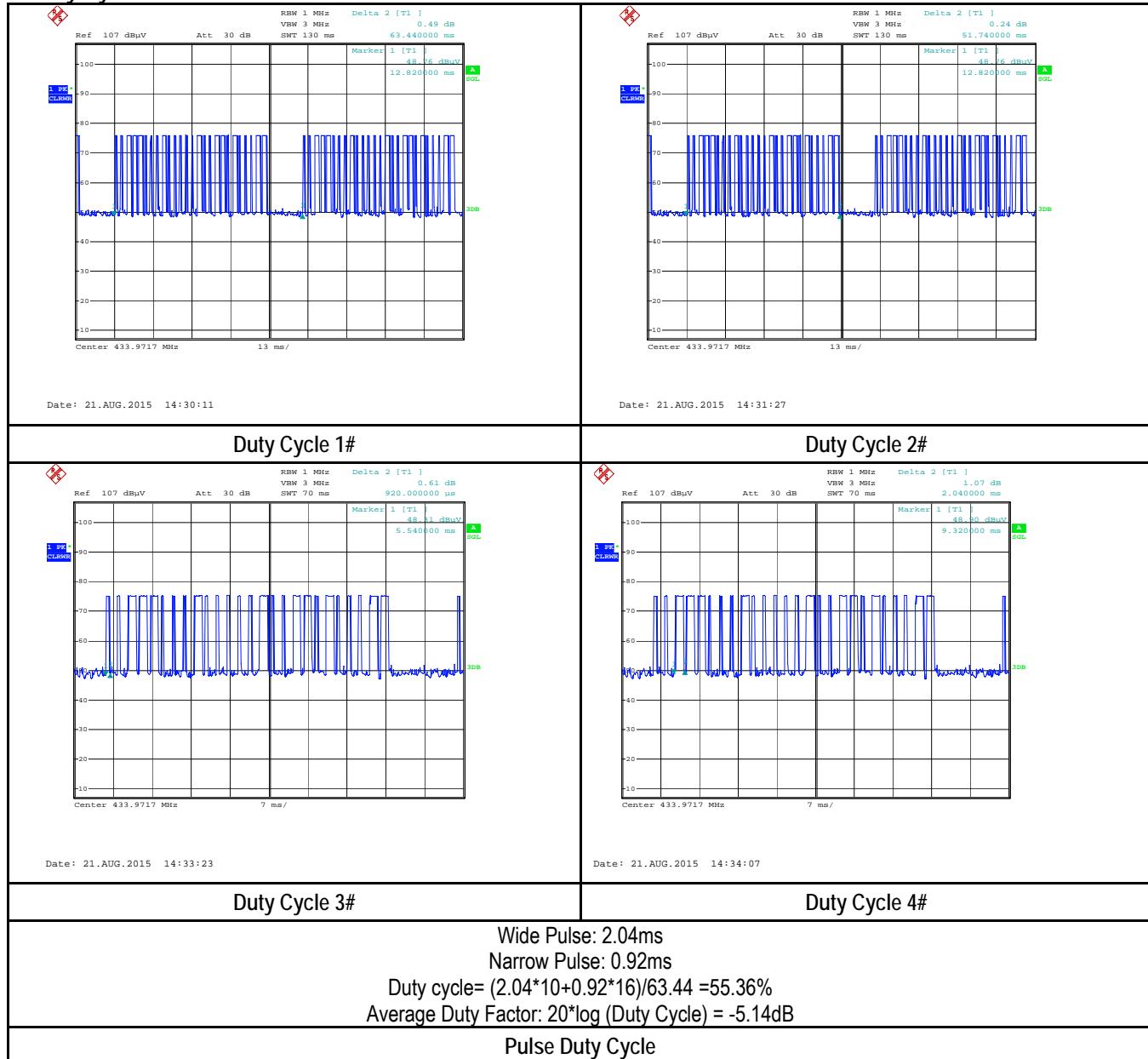
2/NP = 2/0.92ms =2.17 kHz

RBW > 2/NP (2.17 kHz)

Therefore PDCF is not needed.

## Test Plots

### Duty Cycle Measurement Result



## 6.5 Deactivation

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	August 21, 2015
Tested By :	Amos Xia

**Requirement(s):**

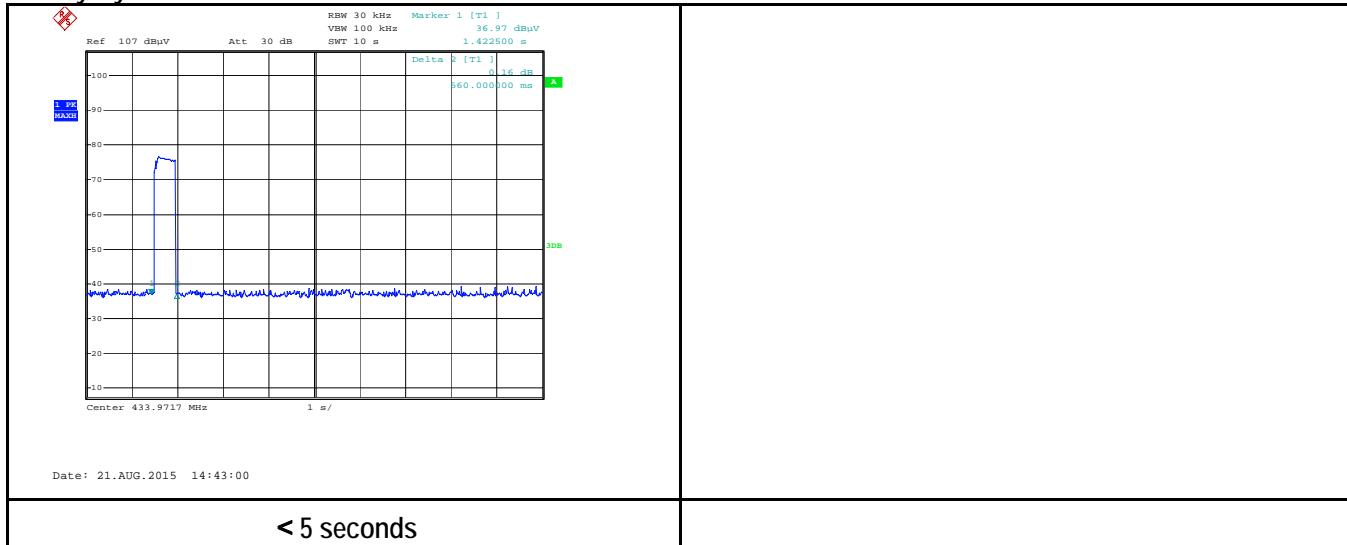
Spec	Item	Requirement	Applicable
§15.231 (a)(1)	a)	A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.	<input checked="" type="checkbox"/>
Test Setup		<div style="border: 1px solid black; padding: 5px; display: inline-block;">Spectrum Analyzer</div> <span style="margin: 0 10px;">—————</span> <div style="border: 1px solid black; padding: 5px; display: inline-block;">EUT</div>	
Test Procedure	<b>measurement procedure</b> <ul style="list-style-type: none"> <li>- Set analyzer center frequency to channel center frequency.</li> <li>- Set the span to 0Hz.</li> <li>- Set the VBW <math>\geq 3</math> ' RBW.</li> <li>- Detector = peak.</li> <li>- Sweep time = auto couple.</li> <li>- Trace mode = max hold.</li> <li>- Allow trace to fully stabilize.</li> </ul>		
Remark			
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

 Test Data  Yes  N/A

 Test Plot  Yes (See below)  N/A

## Test Plots

### Duty Cycle Measurement Result



## Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
<b>AC Line Conducted Emissions</b>					
R&S EMI Test Receiver	ESPI3	101216	11/04/2014	11/03/2015	N/A
V-LISN	ESH3-Z5	838979/005	09/27/2014	09/26/2015	N/A
SIEMIC Conducted Emissions software	V1.0	N/A	N/A	N/A	N/A
<b>RF conducted test</b>					
R&S EMI Receiver	ESPI3	101216	11/04/2014	11/03/2015	<input checked="" type="checkbox"/>
<b>Radiated Emissions</b>					
Agilent Technologies Spectrum Analyzer	N9010	MY47191130	03/11/2015	03/10/2016	<input checked="" type="checkbox"/>
R&S EMI Receiver	ESPI3	101216	11/04/2014	11/03/2015	<input checked="" type="checkbox"/>
Antenna (30MHz~6GHz)	JB6	A121411	06/04/2015	06/03/2016	<input checked="" type="checkbox"/>
EMCO Horn Antenna (1 ~18GHz)	3115	N/A	10/09/2014	10/08/2015	<input checked="" type="checkbox"/>
INFOMW Antenna (1 ~18GHz)	JXTXLB-10180	J2031081120092	10/09/2014	10/08/2015	<input checked="" type="checkbox"/>
Hp Agilent Pre-Amplifier	8447F	1937A01160	10/27/2014	10/26/2015	<input checked="" type="checkbox"/>
MITEQ Pre-Amplifier (0.1 ~ 18GHz)	AMF-7D-00101800-30-10P	1451709	10/27/2014	10/26/2015	<input checked="" type="checkbox"/>
SIEMIC Radiated Emissions software	V1.0	N/A	N/A	N/A	<input checked="" type="checkbox"/>

## Annex B. EUT And Test Setup Photographs

### Annex B.i. Photograph: EUT External Photo



Front View of EUT



Rear View of EUT



Top View of EUT

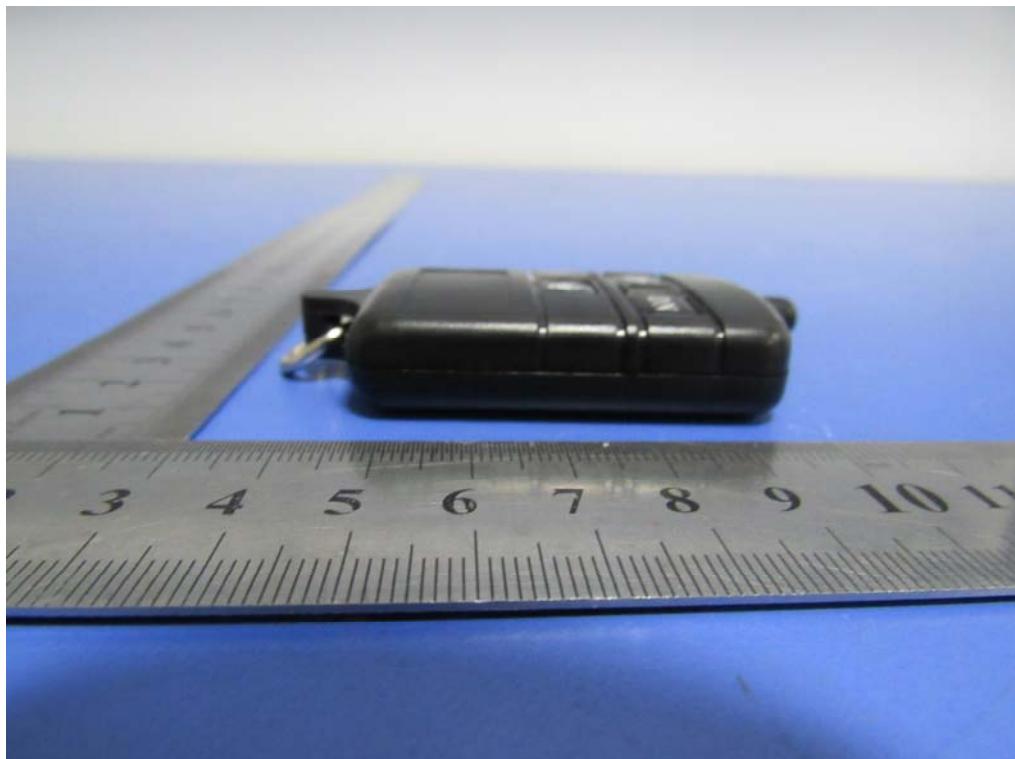


Bottom View of EUT

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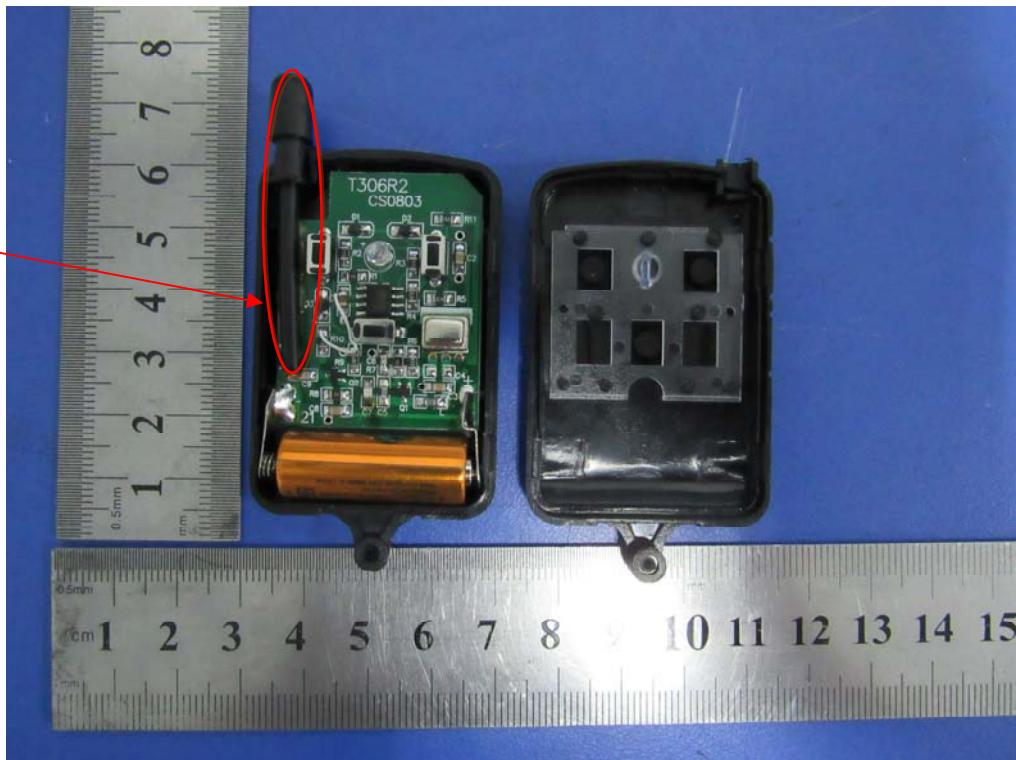


Left View of EUT

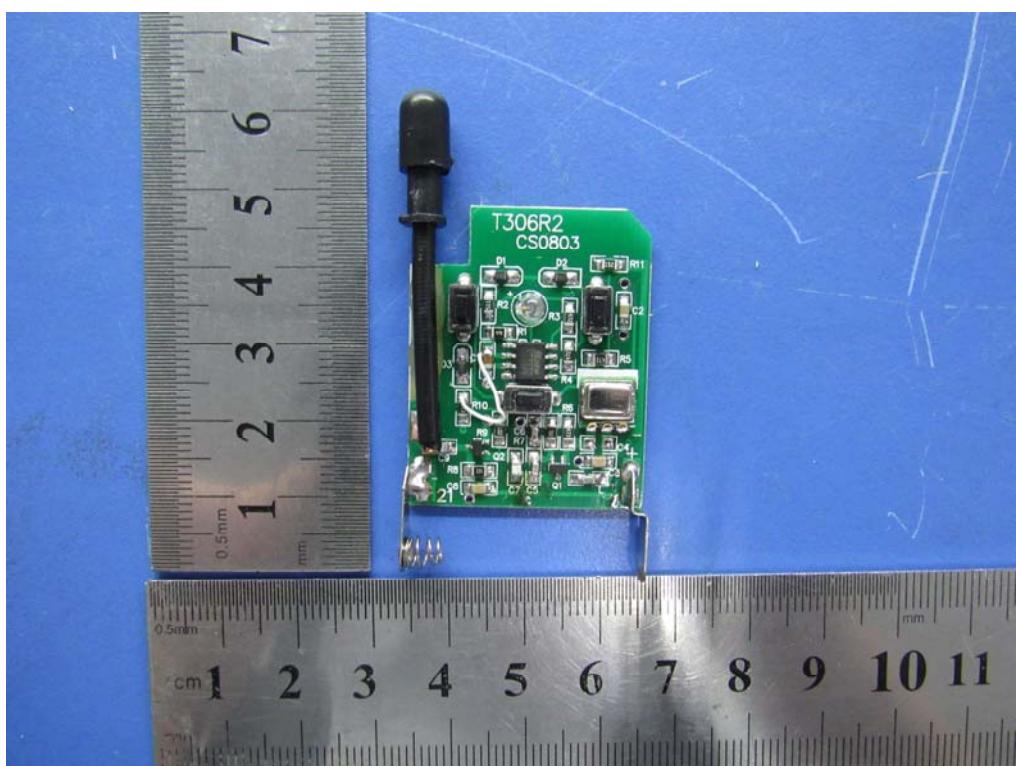


Right View of EUT

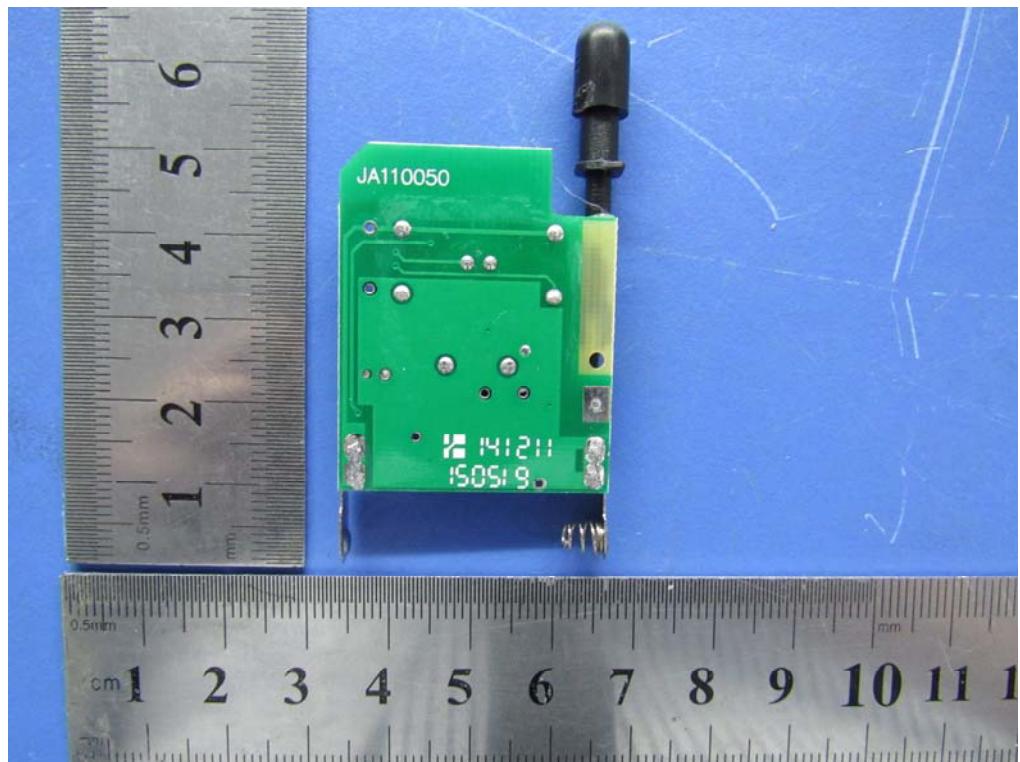
Annex B.ii. Photograph EUT Internal Photo



Uncover - Front View

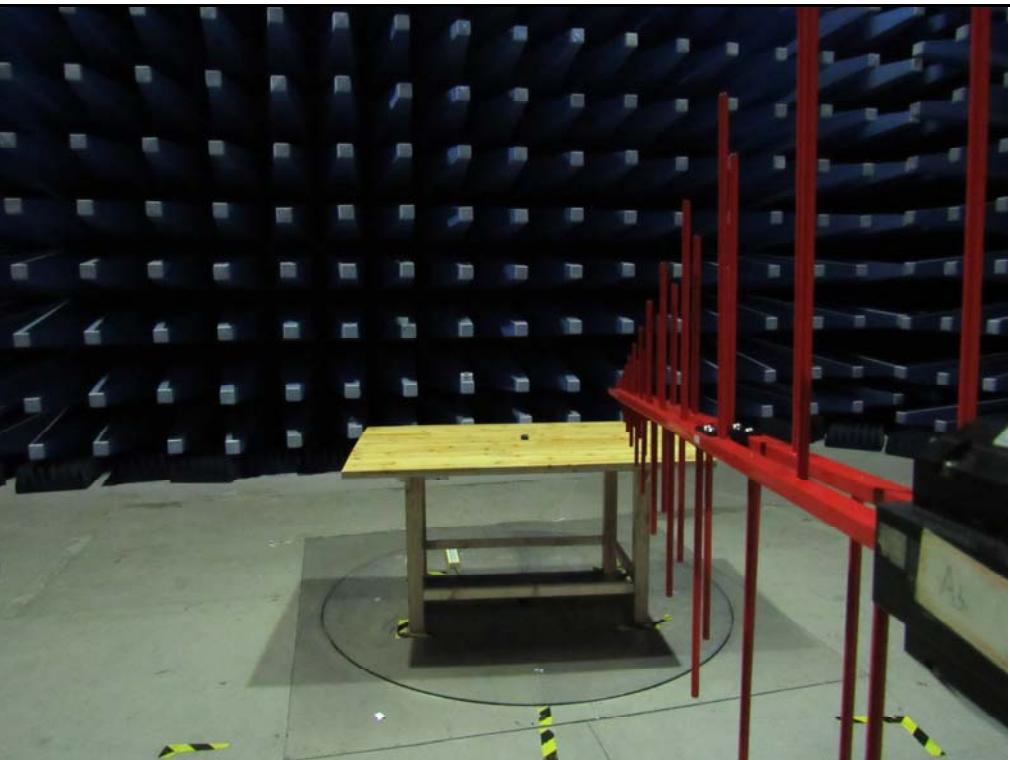


EUT PCBA – Front View

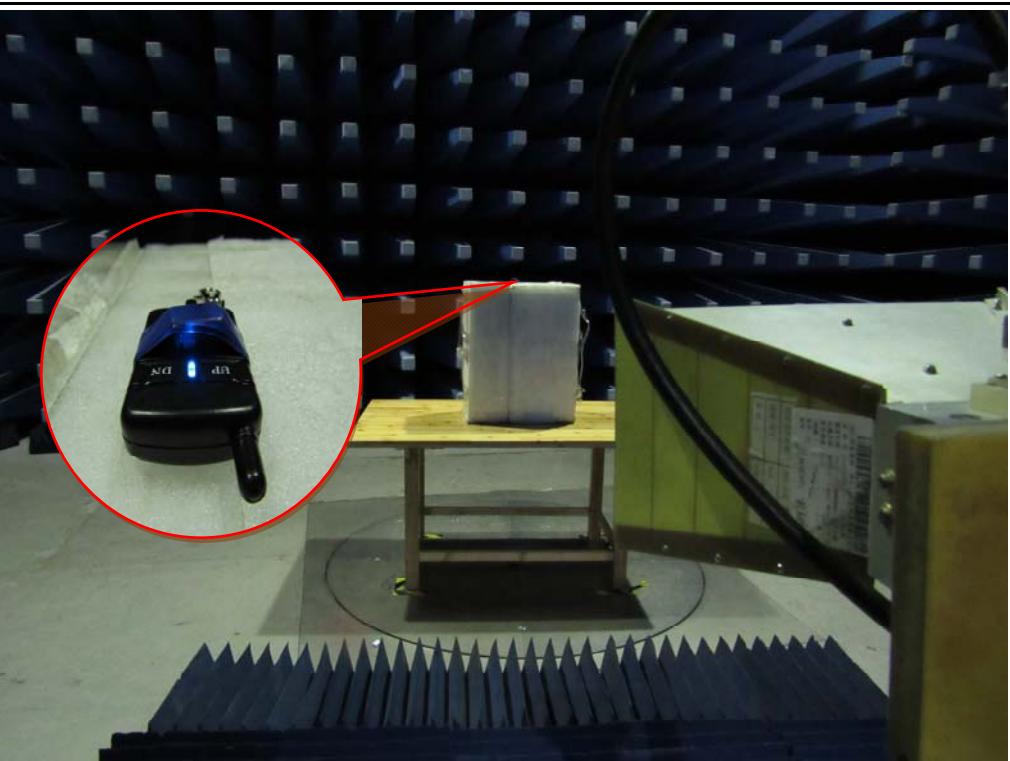


EUT PCBA – Rear View

**Annex B.iii. Photograph: Test Setup Photo**



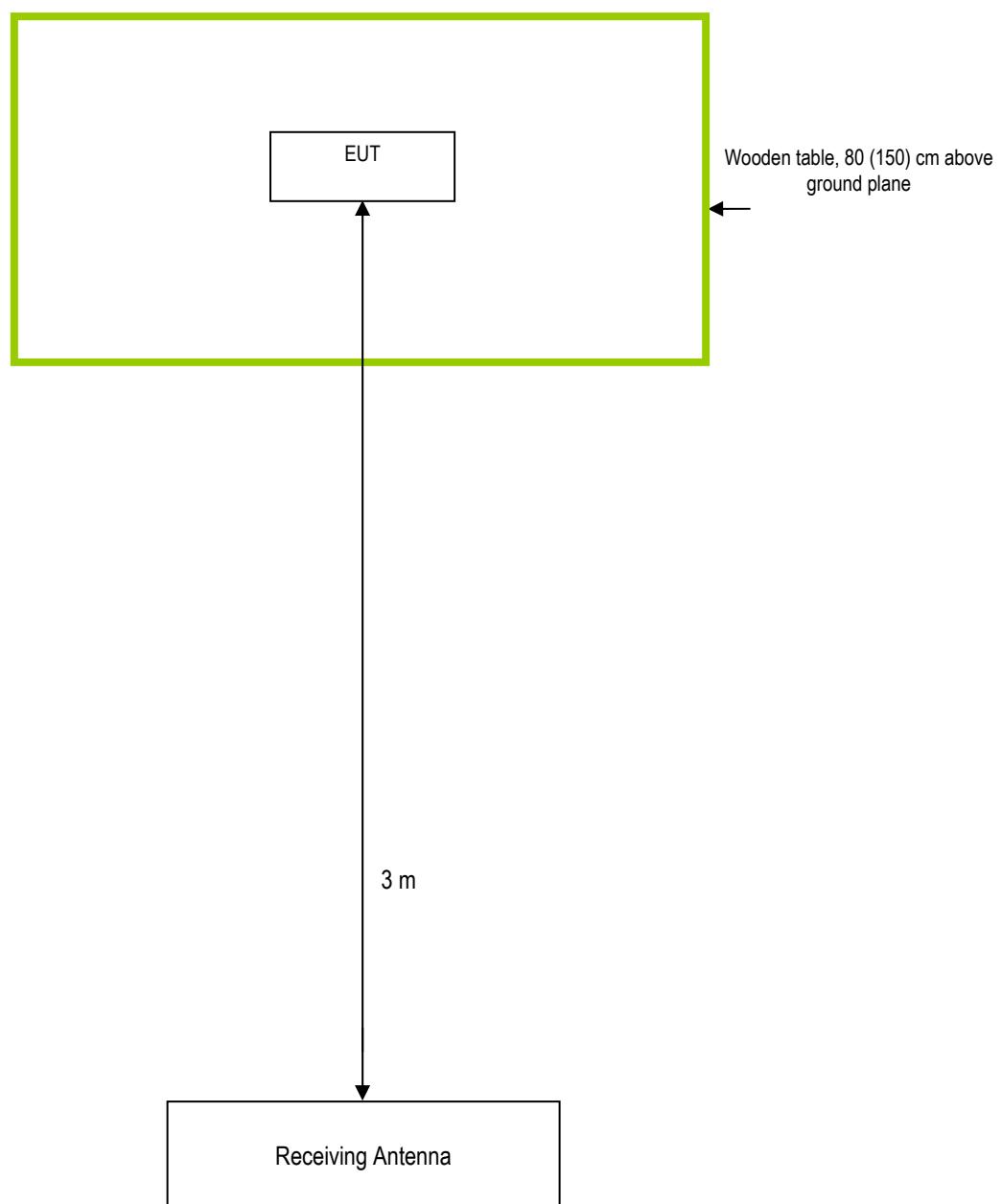
Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

### Annex C.ii. TEST SET UP BLOCK



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#### Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description	Model	Calibration Date	Calibration Due Date
N/A	N/A	N/A	N/A	N/A

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## Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see attachment

## Annex E. DECLARATION OF SIMILARITY

### Beijing Jia An Electronics Technology Co.,Ltd.

Add:No.19 Gu Cheng west street,Shi Jing Shan District,Beijing 100043,CHINA

Tel:+86-10-6888 9971

Fax:+86-10-6888 9950

### Declaration on model difference

We the undersigned hereby confirm that any of our production units bearing the following model numbers for the Transmitters are identical in circuitry, PCB Layout, components, material manufacture of PCB, mechanical, and physical construction; the only differences between model No. T306 and T306-2 are the number of activation buttons. The T306-2 is a two button device, the T306 is a three button device.

- In fact they are 1 model, but have two names, so named with 2 model numbers.

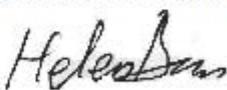
Production name	Trade name	Model no.
Transmitter		T306 T306-2

- Please provide at least 1 sample with difference except specified as above for further evaluation.

Production name	Trade name	Model no.	Description

Confirmed by Beijing Jia An Electronics Technology Co.,Ltd.

Authorized Signature:



Date: 2015.8.24