# RF TEST REPORT



Report No.: 17020246-FCC-R1 Supersede Report No.: N/A

Applicant	BTX Holdings Inc			
Product Name	single channel remote			
Main Model	C221	C221		
Serial Model	N/A			
Test Standard	FCC Part 15.231	: 2016, ANSI C63.10	: 2013	
Test Date	April 01, 2017			
Issue Date	April 01, 2017			
Test Result	⊠ Pass ☐ Fail			
Equipment complied with the specification				
Equipment did not o	omply with the s	pecification		
Deon	Dai'	Miro	Bao	
Deon Dai Test Engineer		Miro B Checked		
This test report may be reproduced in full only  Test result presented in this test report is applicable to the tested sample only				

# Issued by: SIEMIC (Nanjing-China) Laboratories

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### **Laboratories Introduction**

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**Accreditations for Conformity Assessment** 

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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
17020246-FCC-R1	NONE	Original	April 01, 2017

### 2. <u>Customer information</u>

Applicant Name	BTX Holdings Inc
Applicant Add	10763 Sanden Drive Dallas, TX 75238
Manufacturer Name	Sunpery (Nanjing) Co., Ltd
Manufacturer Add	No. 588 Xiaoshan Road, Dachang District, Nanjing 210044

### 3. Test site information

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



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

Description of EUT:	single channel remote

Main Model: C221

Serial Model: N/A

Date EUT received: March 14, 2017

Test Date(s): April 01, 2017

Antenna Gain: 0 dBi

Type of Modulation: ASK

RF Operating Frequency (ies): Tx:433.92MHz

Number of Channels: 1 CH

Port: N/A

Power: DC3V

Trade Name : BTX

FCC ID: UGP-4902077



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#### 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)	3.92dB

N/A\*: EUT is Power Supply by Battery



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#### 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.



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# **6.2 AC Conducted Emissions Voltage**

Temperature	-
Relative Humidity	-
Atmospheric Pressure	-
Test date :	-
Tested By:	-

#### **Conducted Emission Limit**

Frequency ranges	Limit (dBµV)	
(MHz)	QP	Average
0.15 ~ 0.5	66 – 56	56 – 46
0.5 ~ 5	56	46
5 ~ 30	60	50

Spec	Item	m Requirement App	
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.	
Test Setup	Vertical Ground Reference Plane  Bocm  Horizontal Ground Reference Plane  Note: 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.		
Procedure	<ul> <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	EUT is Power Supply by Battery		
Result	⊠N/A	□ Fail	



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# 6.3 20dB Occupied Bandwidth

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	April 01, 2017
Tested By:	Deon Dai

Requirement(s):

nequirement(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.   □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	
	b)	For devices operating above 900 MHz, the emission shader than 0.5% of the center frequency.	all be no
Test Setup		Spectrum Analyzer EUT	
Test Procedui	re - -	dB Emission bandwidth measurement procedure  - Set RBW = 100 kHz.  - Set the video bandwidth (VBW) ≥3*RBW.  - Detector = Peak.  - Trace mode = max hold.  - Sweep = auto couple.  - Allow the trace to stabilize.  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.	
Remark			
Result	⊠Pa	ss	
Test Data ⊠Ye		□N/A	

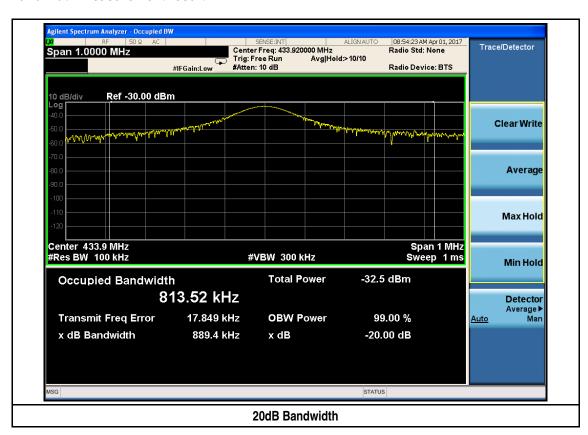


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#### 20dB Bandwidth measurement result

Туре	Freq (MHz)	СН	Measured 20dB Bandwidth (kHz)	Limit (kHz)	Result
20dB BW	433.92	1 CH	889.4	1084.8	Pass

Test Plots 20dB Bandwidth measurement result





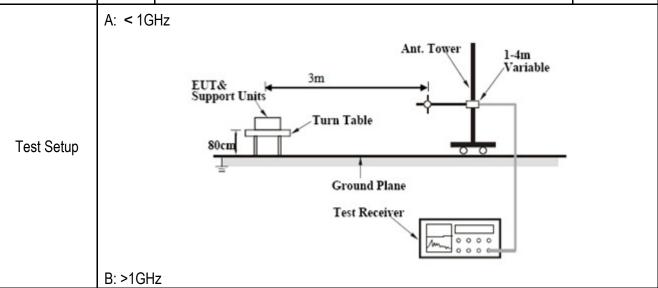
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## **6.4 Radiated Fundamental and Spurious Emission**

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	April 01, 2017
Tested By:	Deon Dai

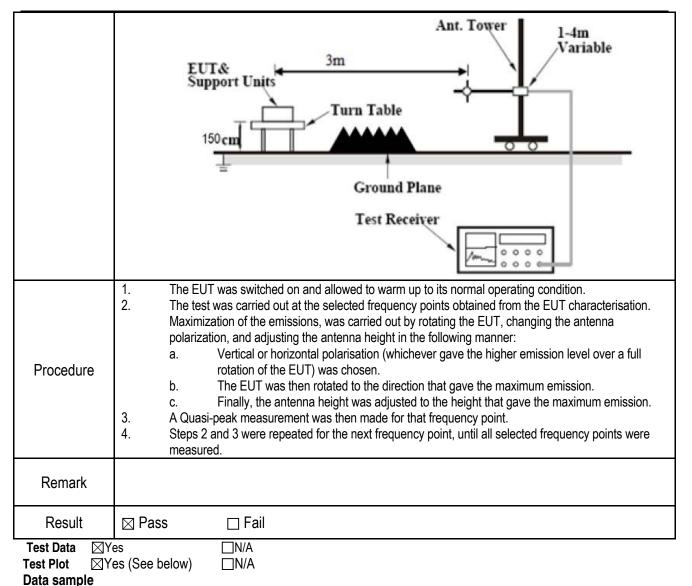
Requirement(s):

Item	Requirement	Applicable				
a)	Except higher limit as sy low-power radio-frequer specified in the following exceed the level of the fedges  Fundamental frequency (MHz)  40.66-40.70	recy devices shall not exceed the stable and the level of any of fundamental emission. The fundamental emission fundamental (microvolts/meter)  2250	the field strength levels unwanted emissions shall not tighter limit applies at the band  Field strength of spurious emissions (microvolts/meter)  225	Дррпсавіе		
,						
	174-260	3750	375			
	260-470	3750-12500	375 to 1250			
	Above 470	12500	1250			
	Note: All 3 axes have	Note: All 3 axes have been investigated. Only worst case is presented in the test report.				
		a)  Except higher limit as sylow-power radio-frequer specified in the following exceed the level of the edges  Fundamental frequency (MHz)  40.66-40.70 70-130 130-174 174-260 260-470 Above 470	a)  Except higher limit as specified elsewhere in other solow-power radio-frequency devices shall not exceed specified in the following table and the level of any exceed the level of the fundamental emission. The edges  Fundamental frequency (MHz)  40.66-40.70  40.66-40.70  70-130  1250  130-174  1250 to 3750  174-260  3750-12500  Above 470  Note: All 3 axes have been investigated. Only works.	a)  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  Fundamental Field strength of fundamental 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  174-260 3750 375 to 1250  Above 470 12500 1250  Note: All 3 axes have been investigated. Only worst case is presented in the		





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Frequency (MHz) = Emission frequency in MHz

Detector

Ant\_F

(dB/m)

PA\_G

(dB)

Cab\_L

(dB)

Result

(dBµV/m)

Limit

(dBµV/m)

Margin

(dB)

Height

(cm)

Degree

(°)

Reading (dBμV/m) = Receiver Reading Value

Reading

(dBµV/m)

Detector= Peak Detector or Quasi Peak Detector

Ant\_F=Antenna Factor

Frequency

(MHz)

PA\_G=Pre-Amplifier Gain

Cab\_L=Cable Loss

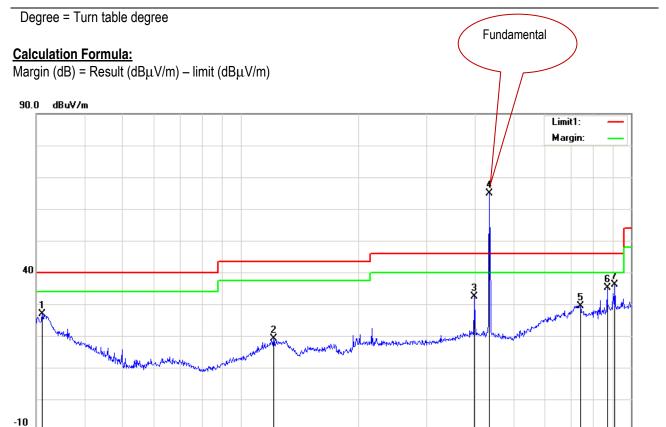
Result  $(dB\mu V/m)$  = Read ing Value + Corrected Value

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

Height (cm) = Height of Receiver antenna



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#### Vertical Polarity Plot @3m

300

600 700

1000.0 MHz

#### Field strength of fundamental Result

70 80

30.000

No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)
4	433.92	94.30	Pk	16.43	49.13	3.35	64.95	100.8	-35.85	100	116
4	433.92	-	Ave	_	-	_	59.15	80.8	-21.65	-	_

#### Field strength of spurious emissions Result

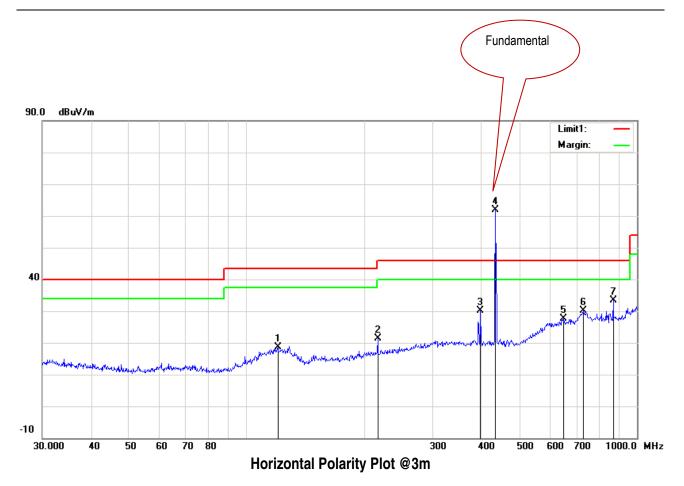
No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)
6	867.84	53.39	peak	23.02	46.12	4.76	35.05	80.8	-45.75	100	266
6	867.84	-	Ave	-	-	-	29.25	60.8	-31.55	-	-

Notes: Duty cycle is 51.28%, 20log (duty cycle) = -5.80dB correction was used to determine the average level from the peak reading.

Average = peak reading + 20log (duty cycle), Final Average= peak reading -5.80dB



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#### Field strength of fundamental Result

No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)
4	433.92	91.67	Pk	16.00	49.14	3.35	61.89	100.8	-38.91	200	54
4	433.92	-	Ave	-	-	-	56.09	80.8	-24.71	-	-

#### Field strength of spurious emissions Result

No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)
7	867.84	51.84	Pk	22.79	46.12	4.76	33.27	80.8	-47.53	300	6
7	867.84	-	Ave	-	-	-	27.47	60.8	-33.33	ı	-

Notes: Duty cycle is 51.28%, 20log (duty cycle) = -5.80dB correction was used to determine the average level from the peak reading. Average = peak reading + 20log (duty cycle), Final Average= peak reading -5.80dB



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

**Vertical Polarity Plot @3m** 

	Tortiour Folding From										
No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)
1	31.0706	50.58	peak	20.98	45.68	0.89	26.77	40.00	-13.23	100	102
2	121.5486	47.97	peak	15.92	46.67	1.79	19.01	43.50	-24.49	100	140
3	397.6334	61.18	peak	16.95	48.91	3.22	32.44	46.00	-13.56	100	163
5	742.2587	48.01	peak	22.15	45.09	4.37	29.44	46.00	-16.56	100	102
7	909.6667	54.12	peak	23.67	46.63	4.88	36.04	46.00	-9.96	100	151

#### **Horizontal Polarity Plot @3m**

No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)
1	120.2766	47.37	peak	16.03	46.58	1.78	18.60	43.50	-24.90	200	254
2	216.7828	52.90	peak	13.98	47.74	2.34	21.48	46.00	-24.52	200	233
3	397.6334	59.73	peak	16.02	48.91	3.22	30.06	46.00	-15.94	200	266
5	647.3856	49.56	peak	21.80	47.70	4.08	27.74	46.00	-18.26	216	360
6	729.3583	48.68	peak	22.58	45.46	4.34	30.14	46.00	-15.86	300	89

#### Notes:

- 1. Duty cycle is 51.28%, 20log (duty cycle) = -5.80dB correction was used to determine the average level from the peak reading. Average = peak reading + 20log (duty cycle), Final Average= peak reading -5.80dB
- 2. All the data measurement of peak values.
- 3. FCC Limit for Average Measurement= $41.67^*$  (433.92MHz)-7083.3333=10998.1131 $\mu$ V/m=80.8dB $\mu$ 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 = (t1 + t2 + t3+...tn)/T where tn = pulse width, T = pulse train length or 100 ms



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

Frequency GHz	Reading (dBµV/m)	Direction Degree	Height Meter	Polar H/V	Ant_F (dB/M)	PA_G (dB)	Cab_L (dB)	correct (dBµV/m)	FCC 15.231 Limit (dBµV/m)	Margin	Comments
1.66	75.01	53	1	Ι	25.67	50.62	3.96	54.02	74	-19.98	Peak
1.66	-	Ī	-	Ι	ı	-	ı	48.22	54	-5.78	Ave
2.495	73.48	59	1	Η	29.28	52.64	4.07	54.19	74	-19.81	Peak
2.495	-	•	-	Η	•	-	ı	48.39	54	-5.61	Ave
3.325	76.74	56	1	Ι	31.12	52.86	4.87	59.87	80.8	-20.93	Peak
3.325	-	ı	ı	Η			ı	54.07	60.8	-6.73	Ave
4.155	68.71	53	1	Ι	32.27	52.67	6.07	54.38	74	-19.62	Peak
4.155	-	•	-	Ι			ı	48.58	54	-5.42	Ave
4.99	68.53	59	1	Ι	33.67	54.17	5.84	53.87	74	-20.13	Peak
4.99	-	-	-	Н			ı	48.07	54	-5.93	Ave
5.82	71.66	59	1	Η	34.06	52.08	6.05	59.69	80.8	-21.11	Peak
5.82	-	•	-	Ι			ı	53.89	60.8	-6.91	Ave
1.65	80.28	245	1	V	25.63	50.57	3.96	59.30	80.8	-21.5	Peak
1.65	-	-	-	V			ı	53.50	60.8	-7.3	Ave
2.48	78.92	359	1	V	29.21	52.62	4.06	59.57	80.8	-21.23	Peak
2.48	-	•	-	V			ı	53.77	60.8	-7.03	Ave
3.305	75.18	360	1	V	30.99	52.85	4.85	58.17	80.8	-22.63	Peak
3.305	-	-	-	V			ı	52.37	60.8	-8.43	Ave
4.13	68.72	358	1	V	32.27	52.72	6.05	54.32	74	-19.68	Peak
4.13	-	-	-	V			-	48.52	54	-5.48	Ave
4.96	68.46	347	1	V	33.58	54.03	5.89	53.9	74	-20.1	Peak
4.96	-	-	-	V			-	48.1	54	-5.9	Ave
5.78	72.53	353	1	V	34.02	52.26	6.08	60.37	80.8	-20.43	Peak
5.78	-	-	-	V			-	54.57	60.8	-6.23	Ave

Note: Duty cycle is 51.28%, 20log (duty cycle) = -5.80dB correction was used to determine the average level from the peak reading.

Average = peak reading + 20log (duty cycle), final Average= peak reading -5.80dB

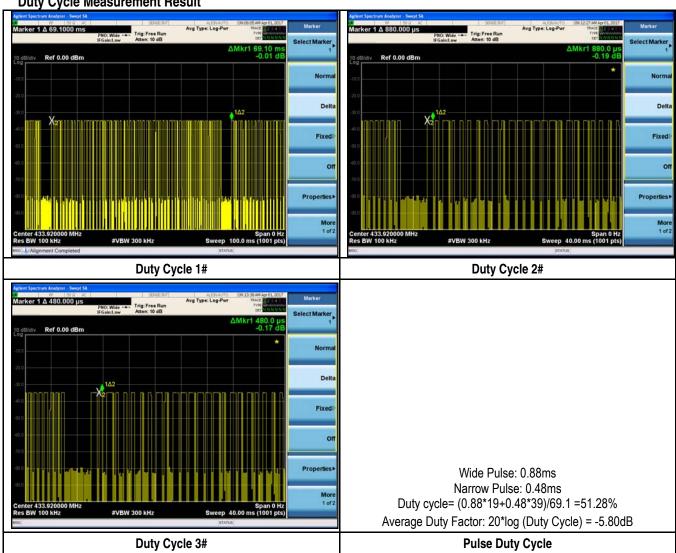
Note:

Narrow Pulse: 0.48ms 2/NP = 2/0.48ms =4.17 kHz RBW > 2/NP (4.17 kHz) Therefore PDCF is not needed.



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**Duty Cycle Measurement Result** 





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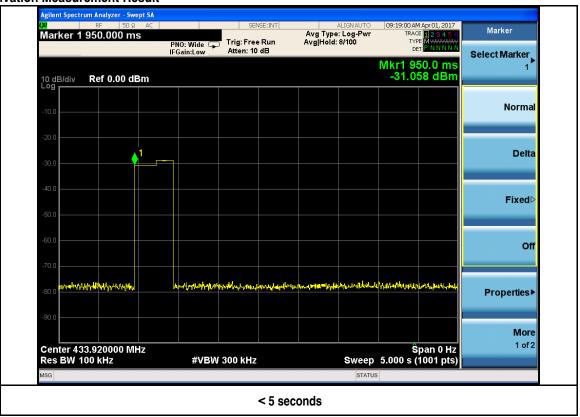
# **6.5 Deactivation**

Temperature			25°C					
Relative Humidity			50%					
Atmospheric Pressure	)		1019mbar					
Test date :			April 01, 2017					
Tested By :			Deon Dai					
Requirement(s):								
Spec	Item	Requirement		Applicable				
§15.231 (a)(1) a) A manually operated trar automatically deactivate			mitter shall employ a switch that will e transmitter within not more than 5 .					
Test Setup		Spectrum Analyzer	EUT					
Test Procedure	measurement procedure  - Set analyzer center frequency to channel center frequency Set the span to 0Hz Set the VBW ≥ 3 ′ RBW Detector = peak Sweep time = auto couple Trace mode = max hold Allow trace to fully stabilize.							
Remark								
Result	⊠ Pass	s						
	es es (See be	⊠N/A elow) □N/A						



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# Test Plots Deactivation Measurement Result





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# Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted Emissions	\$				
R&S EMI Test Receiver	ESPI3	101216	03/31/2017	03/31/2018	
V-LISN	ESH3-Z5	838979/005	03/31/2017	03/31/2018	
SIEMIC EZ_EMC software Conducted Emissions	Ver.ICP-03A1	N/A	N/A	N/A	
Radiated Emissions				l	
Agilent Technologies Spectrum Analyzer	N9010A	MY47191130	03/11/2017	03/10/2018	
R&S EMI Receiver	ESPI3	101216	03/31/2017	03/31/2018	$\boxtimes$
Antenna (30MHz~6GHz)	JB6	A121411	10/31/2016	10/31/2017	$\boxtimes$
EMCO Horn Antenna (1 ~18GHz)	3115	N/A	10/09/2016	10/08/2017	
Hp Agilent Pre-Amplifier	8447F	1937A01160	10/27/2016	10/26/2017	$\boxtimes$
Pre-Amplifier	8449B	3008A02224	10/30/2016	10/30/2017	$\boxtimes$
SIEMIC EZ_EMC software Radiated Emissions	Ver.ICP-03A1	N/A	N/A	N/A	



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## Annex B. EUT And Test Setup Photographs

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



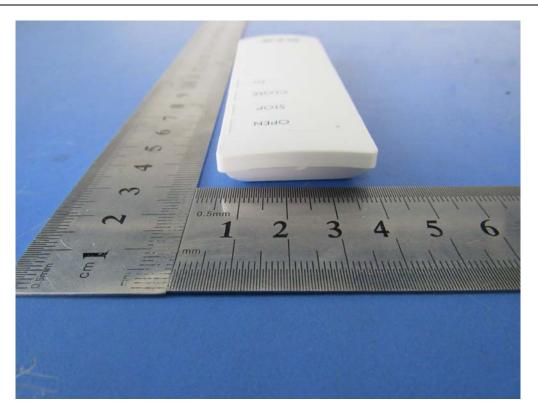
Top View of EUT



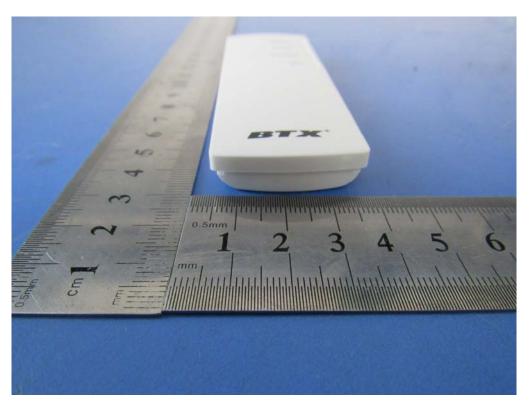
Bottom View of EUT



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Front View of EUT



Rear View of EUT



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Left View of EUT

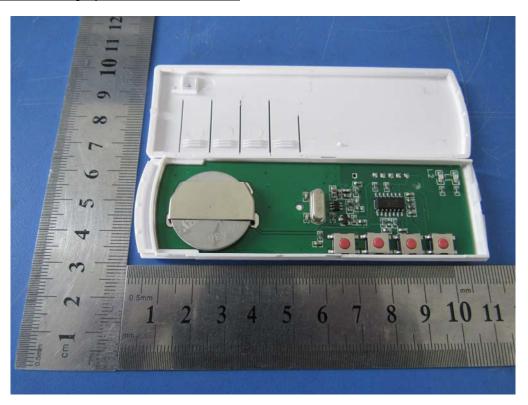


Right View of EUT

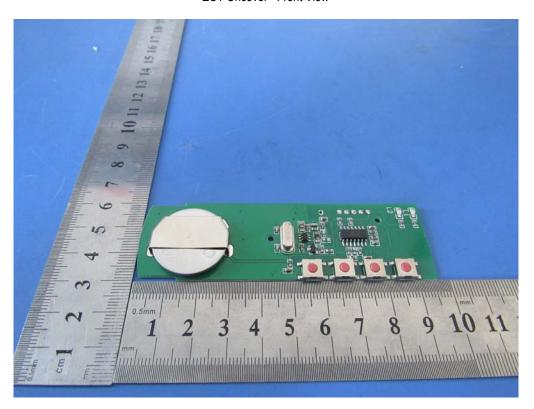


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### Annex B.ii. Photograph EUT Internal Photos



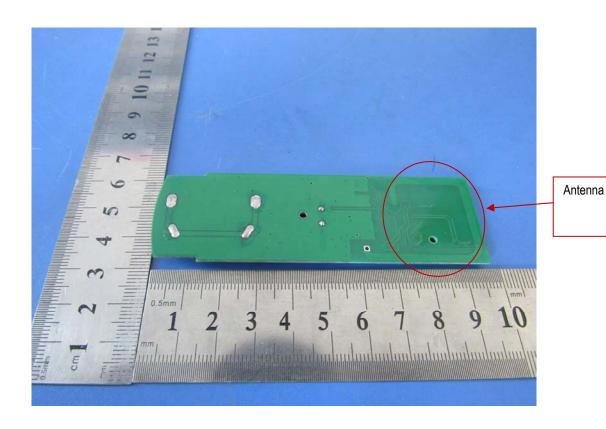
EUT Uncover- Front View



EUT PCBA - Front View



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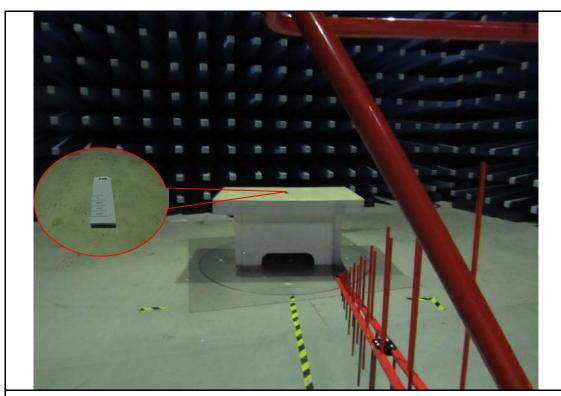


EUT PCBA 1 – Rear View

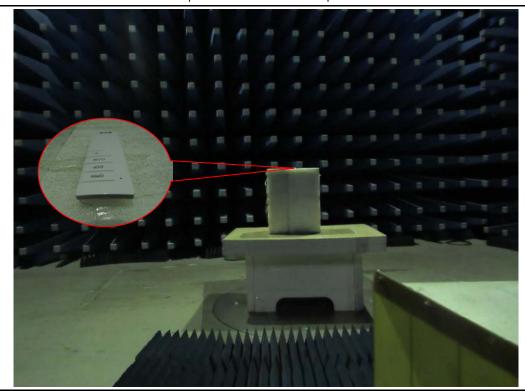


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### Annex B.iii. Photograph: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

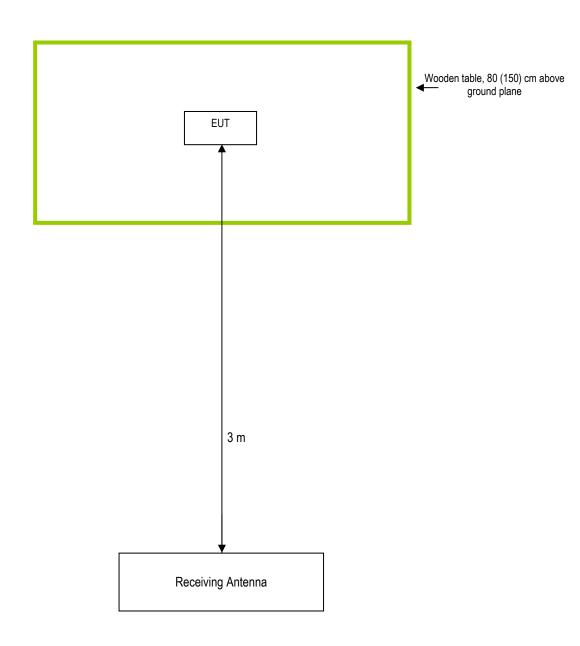


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### Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

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

**Block Configuration Diagram for Radiated Emissions** 





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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
N/A	N/A	N/A



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

Please see attachment



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# Annex E. DECLARATION OF SIMILARITY

N/A