

# FCC TEST REPORT

**For**

**ZHUHAI WINGPOW EROTIC & NOVELTY  
MANUFACTURING CO., LTD.**

**Party in my pants**

Model No. : 31415

FCC ID : XG531415T

Operating  
Frequency : 433.92MHz

Applicant : ZHUHAI WINGPOW EROTIC & NOVELTY MANUFACTURING CO., LTD.  
NO. 35 FIRST ROAD, ZHUHAI BAIJAO NEW TECHNOLOGICAL  
& INDUSTRIAL PARK, ZHUHAI, CHINA

Regulation : **FCC Part 15 Subpart C Section 15.231**

Prepared by : Shenzhen AOV Testing Technology Co., Ltd.  
2-6/F, No.5, Yuantou Lane, Tanglang, Taoyuan Street,  
Nanshan District, Shenzhen, Guangdong, China

Test Date : October 16-19, 2010

Date of Report : October 19, 2010

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## TEST REPORT DECLARATION

Applicant : ZHUHAI WINGPOW EROTIC & NOVELTY MANUFACTURING CO., LTD.  
Manufacturer : ZHUHAI WINGPOW EROTIC & NOVELTY MANUFACTURING CO., LTD.  
EUT Description : Party in my pants

**Test Procedure Used:**  
**FCC Part 15.231 Subpart C**

The E. U. T. listed below has been completed RFI testing by Shenzhen AOV Testing Technology Co., Ltd at the test site of Bontek Compliance Testing Laboratory Ltd. And the Interference emissions can pass FCC Class B limitations.

The test configurations and the facility comply with the radiated and AC line conducted test site criteria in **ANSI C63.4-2003**.

Date of Test:

October 16-19, 2010

Prepared by:



Project Engineer

Reviewer :



Project Manager

## 1. GENERAL INFORMATION

### 1.1 General Information

EUT Description : Party in my pants

Model No. : 31415

Type of Antenna : Permanent attached

Applicant : ZHUHAI WINGPOW EROTIC & NOVELTY MANUFACTURING  
CO., LTD.  
NO. 35 FIRST ROAD, ZHUHAI BAIJAO NEW  
TECHNOLOGICAL & INDUSTRIAL PARK, ZHUHAI, CHINA

Manufacturer : ZHUHAI WINGPOW EROTIC & NOVELTY MANUFACTURING  
CO., LTD.  
NO. 35 FIRST ROAD, ZHUHAI BAIJAO NEW  
TECHNOLOGICAL & INDUSTRIAL PARK, ZHUHAI, CHINA

### 1.2 Test Facility

Test Firm : Bontek Compliance Testing Laboratory Ltd.  
Certificated by FCC, Registration No.: 338263  
Address : FL.1, Building H-3, Hua Qiao Cheng East Industrial Area  
Qiaocheng East Road, Nanshan, Shenzhen, P.R.China  
Tel : 86-755-86337020  
Fax : 86-755-86337028

### 1.3 Test Summary

For the EUT described above. The standards used were FCC Part 15 Subpart C Section 15.231 for Emissions

Tests Carried Out Under FCC Part 15 Subpart C

Standard	Test Items	Status
Section 15.207	Conducted Emission	N/A
Part 15 Subpart C Section 15.231	Transmitter time	Complied
	Radiation Emission	Complied
	20dB Bandwidth	Complied
	Duty Cycle	Complied
Part 15 Subpart C Section 15.203	ANTENNA REQUIREMENT	Complied

Temperature : 26 °C  
Relative Humidity : 53%  
Pressure : 1010hPa  
Test Power : DC 12V

### 1.4 Test Instrument Used

No.	Equipment	Manufacturer	Model No.	S/N	Calibration date
1.	EMI Test Receiver	R&S	ESCI	100687	2010-2-22
2.	Amplifier	HP	8447D	1937A02492	2010-2-22
3.	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9163	9163-324	2010-2-22
4.	Horn Antenna	SCHWARZBECK	BBHA9120A	B08000991-0001	2010-2-27
5.	High Field Biconical Antenna	ELECTRO-METRICS	EM-6913	166	2010-2-22
6.	Log Periodic Antenna	ELECTRO-METRICS	EM-6950	811	2010-2-22
7.	Remote Active Vertical Antenna	ELECTRO-METRICS	EM-6892	304	2010-2-22
8.	Teo Line Single Phase Module	SCHWARZBECK	NSLK8128	D-69250	2010-2-22
9.	Positioning Controller	C&C	CC-C-1F	MF7802113	2010-2-27
10.	Triple-Loop Antenna	EVERFINE	LLA-2	607004	2010-2-22
11.	10dB attenuator	SCHWARZBECK	MTAIMP-136	R65.90.0001#06	2010-2-22

## 2. TRANSMITTER TIME

### 2.1.Rules Part No.

FCC Part 15 Subpart C Section 15.231(a) (1)

### 2.2.Limit of transmitter time

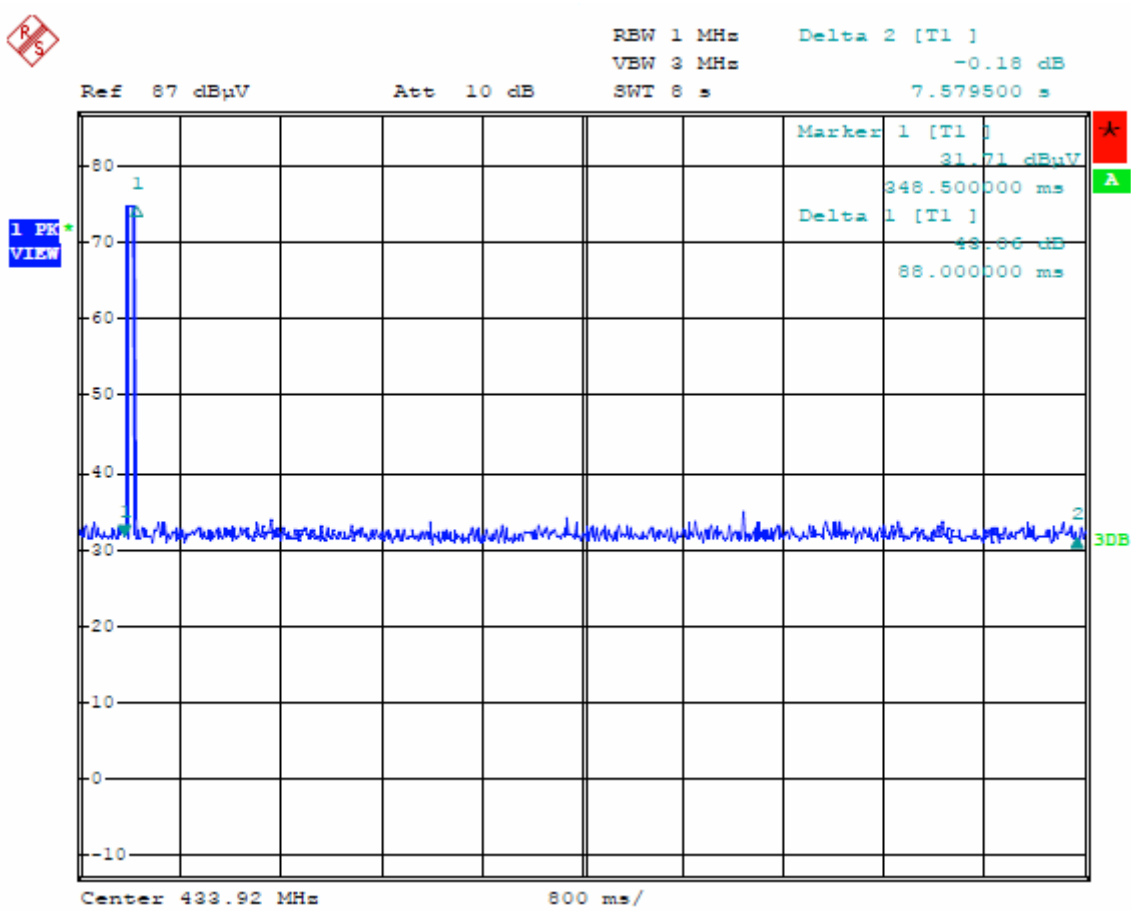
A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

### 2.3.Test result

**PASS**

Detailed information, Please refer to the following page.

T=260ms <5s





### 3. RADIATION INTERFERENCE

#### 3.1. Rules Part No.

15.231

#### 3.2. Limit of Radiated Disturbances

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)
40.66 - 40.70	2,250	225
70 - 130	1,250	125
130 - 174	1,250 to 3,750 **	125 to 375 **
174 - 260	3,750	375
260 - 470	3,750 to 12,500 **	375 to 1,250 **
Above 470	12,500	1,250

Remark : (1) Emission level (dB) $\mu$ V = 20 log Emission level  $\mu$ V/m

(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.

#### 3.3. Test Procedure

##### **ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES:**

The EUT is placed on a turned table that is 0.8 meter above the ground. The turned 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 that is mounted on the antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (log periodical antenna and horn antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz.

The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

### 3.4. Test Result

#### PASS

Field Strength of Fundamental:

Horizontal:

Frequency (MHz)	AV (dBuV/m)	PK (dBuV/m)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Average Margin (dBuV/m)	Peak Margin (dBuV/m)
433.92	47.82	55.32	80.83	100.83	33.01	45.51
868.52	43.36	50.86	60.83	80.83	17.47	29.97
2168.80	36.43	43.93	60.83	80.83	24.40	36.90

Vertical:

Frequency (MHz)	AV (dBuV/m)	PK (dBuV/m)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Average Margin (dBuV/m)	Peak Margin (dBuV/m)
433.92	47.82	55.32	80.83	100.83	33.01	45.51
868.52	54.24	61.74	60.83	80.83	6.59	19.09
2168.80	37.93	45.43	60.83	80.83	22.90	35.4

Field Strength of Spurious Emission:

Horizontal:

Frequency (MHz)	PK (dBuV/m)	Read Level (dBuV/m)	Limit (dBuV/m)	(PK)Margin (dBuV/m)
125.29	23.13	---	43.5	20.20
353.05	34.96	---	46.0	11.10
383.18	34.23	---	46.0	11.77
440.08	35.84	---	46.0	10.16
586.93	35.34	---	46.0	10.66
592.58	33.58	---	54.0	20.42
630.45	40.60	---	54.0	13.40
755.26	40.55	---	54.0	13.45
945.80	44.50	---	54.0	9.50
1260.58	42.01	---	54.0	11.99
1482.95	40.35	---	54.0	13.65
1575.56	39.52	---	54.0	14.48

Vertical:

Frequency (MHz)	PK (dBuV/m)	Read Level (dBuV/m)	Limit (dBuV/m)	(PK)Margin (dBuV/m)
125.60	21.74	---	43.5	21.76
353.89	30.08	---	46.0	15.92
383.89	30.16	---	46.0	15.84
456.70	33.69	---	46.0	12.31
581.80	34.72	---	46.0	11.28
630.45	44.60	---	54.0	9.40
945.80	45.50	---	54.0	8.50
1260.85	40.52	---	54.0	13.48
1385.50	42.85	---	54.0	11.15
1575.60	41.50	---	54.0	12.50
1785.25	41.58	---	54.0	12.42
1890.85	42.62	---	54.0	11.38

## 4. BANDWIDTH

### 4.1. Test Standard

15.231

### 4.2. Limits

$(0.0025 \times 433.92 \text{ MHz} = 1084.8 \text{ KHz})$

$72 \text{ KHz} < 1084.8 \text{ KHz}$

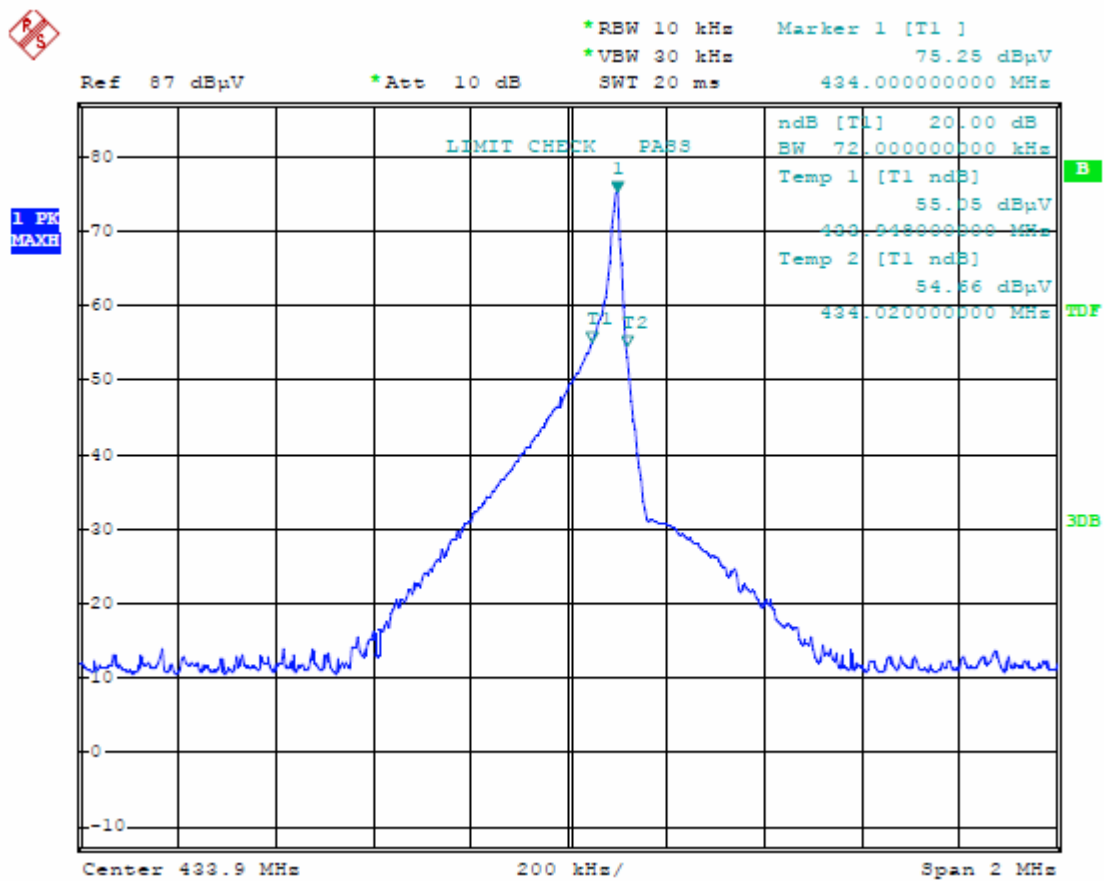
### 4.3. Test Procedure

- (1) Turn on the transmitter, and set it to transmit the pulse train continuously.
- (2) Set Test Receiver into spectrum analyzer mode, Tune the spectrum analyzer to the transmitter carrier frequency, and set the spectrum analyzer resolution bandwidth(RBW) to 100kHz and video bandwidth(VBW) to 100kHz, then select Peak function to scan the channel frequency.
- (3) The 20dB bandwidth was measured and recorded.  
Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

### 4.4. Test Result

**PASS**

Detailed information, Please refer to the following page.



## 5. DUTY CYCLE

### 5.1. Test Standard

15.231

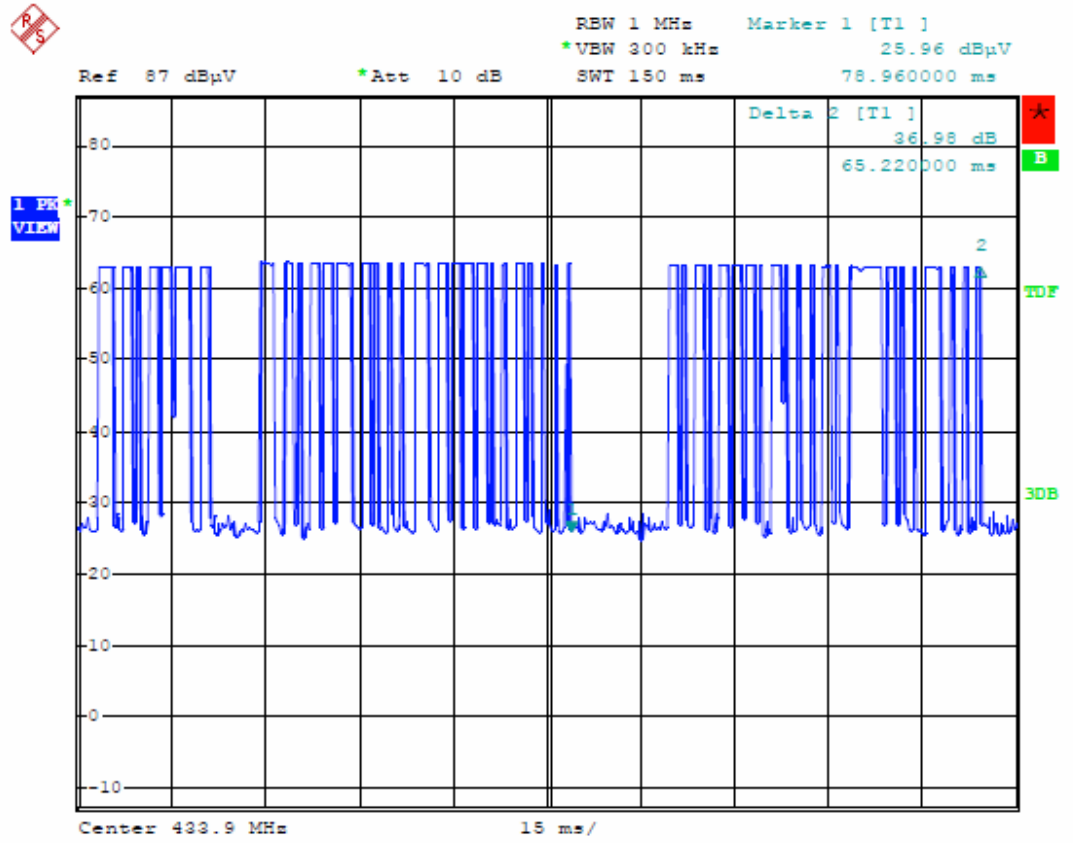
### 5.2. Test Procedure

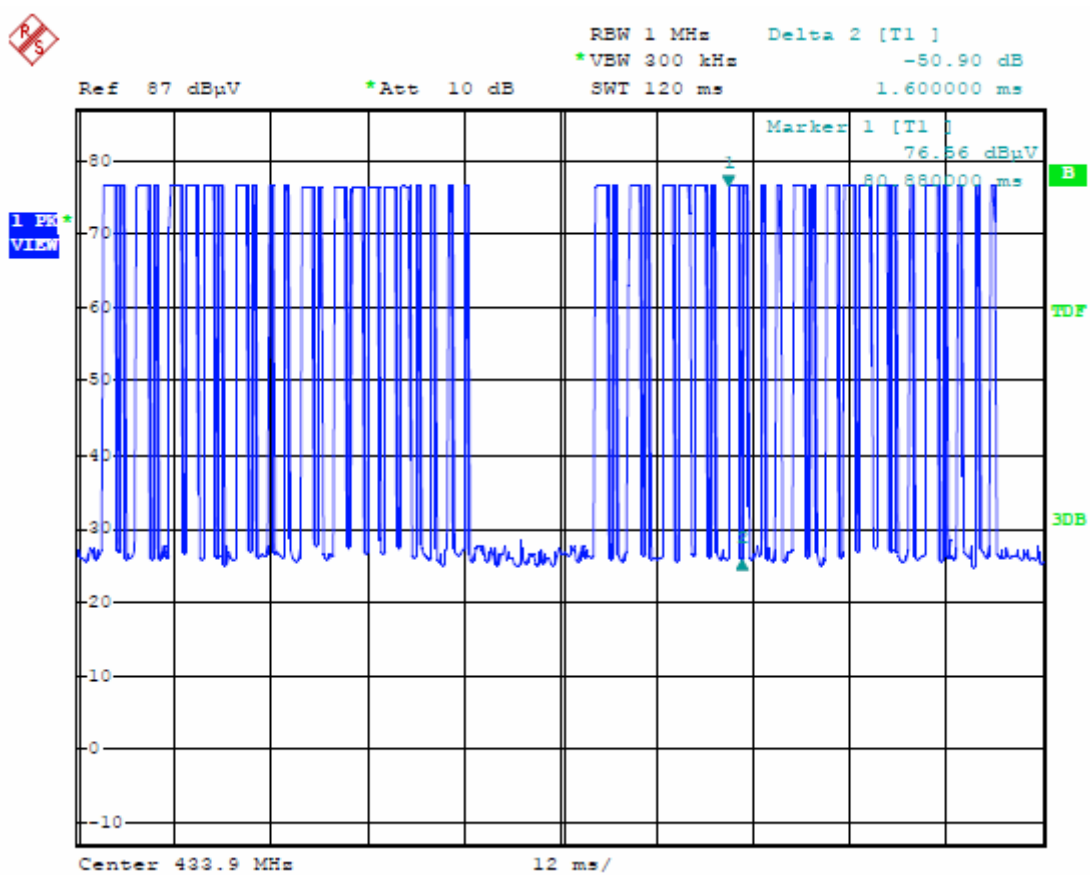
- (1) The EUT was placed on a turntable which is 0.8m above ground plane.
- (2) Set EUT operating in continuous transmitting mode
- (3) Set Test Receiver into spectrum analyzer mode, Tune the spectrum analyzer to the transmitter carrier frequency, and set the spectrum analyzer resolution bandwidth(RBW) to 100kHz and video bandwidth(VBW) to 300kHz, Span was set to 0Hz.
- (4) The Duty Cycle was measured and recorded.

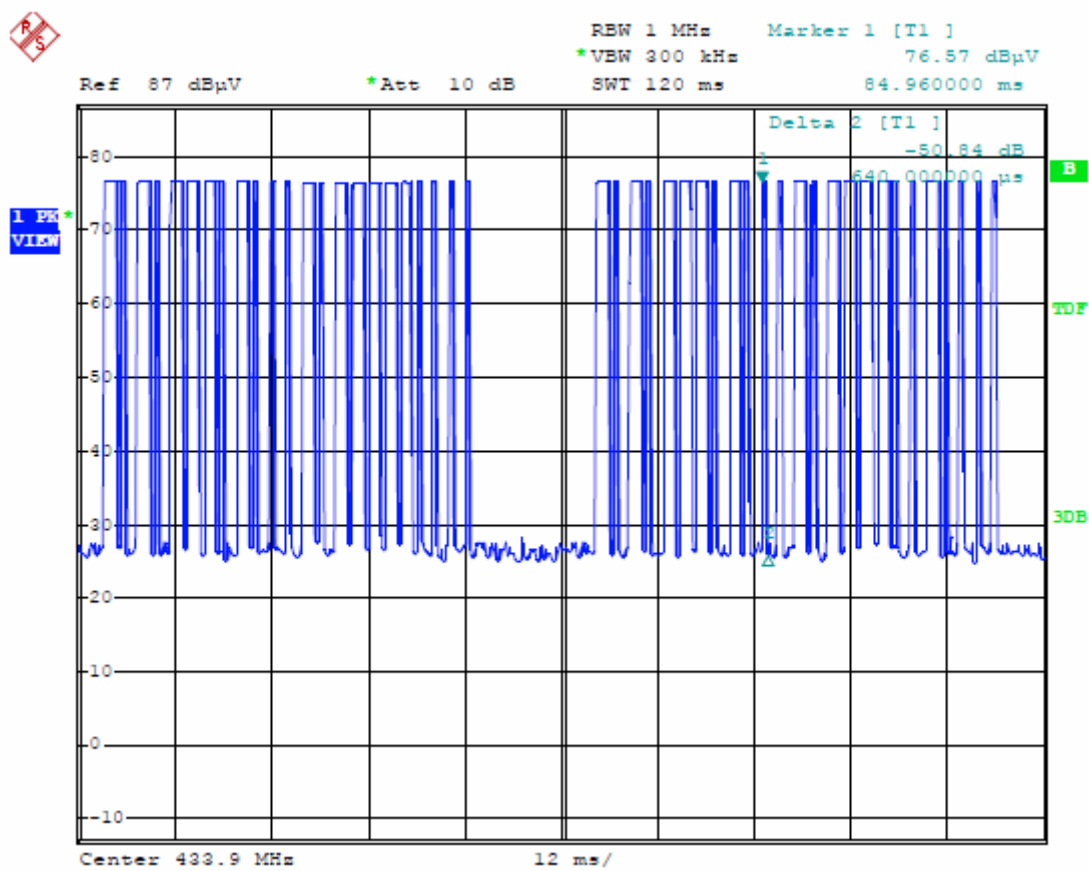
### 5.3. Test Result

Test plots see following pages

$$20\log(\text{Duty cycle}) = 20\log(12 \times 1.6\text{ms} + 13 \times 0.64\text{ms} / 65.22\text{ms}) = -7.5\text{dB}$$









## 6. ANTENNA REQUIREMENT

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 integral antenna. Antenna maximum gain is 0dBi.

According to Section 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.

The EUT has no antenna connector for printed antenna. Therefore the EUT complies with Section 15.203 of the FCC rules.

## 7. PHOTOGRAPH OF TEST

Below 1GHz



Above 1GHz

