



Shenzhen Certification Technology Service Co., Ltd  
2F, Building B, East Area of Nanchang Second Industrial Zone,  
Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China.

# TEST REPORT

## FCC ID: OZLMW-RC02

**Applicant** : MW Products LTD.

**Address** : Flat D, 2/F, Effort Industrial Building, 2-8 Kung Yip Street, Kwai Chung, Hong Kong.

### Equipment under Test (EUT):

Name : Predator Remote

Model : MW-RC02

**Standards** : FCC PART 15, SUBPART C : 2011 (Section 15.231)

**Report No.** : STE120915267

**Date of Test** : October 7-15, 2012

**Date of Issue** : October 16, 2012

<b>Test Result :</b>	<b>PASS *</b>
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\* In the configuration tested, the EUT complied with the standards specified above

Authorized Signature

A handwritten signature in black ink that appears to read "Mark Zhu".

(Mark Zhu)  
General Manager

The manufacturer should ensure that all the products in series production are in conformity with the product sample detailed in this report.

If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of Shenzhen Certification Technology Service Co., Ltd. Or test done by Shenzhen Certification Technology Service Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Certification Technology Service Co., Ltd. Approvals in writing.

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## 1 General Information

### 1.1 Description of Device (EUT)

Trade Name : EDGE

EUT : Predator Remote

Model No. : MW-RC02

Type of Antenna : Telescope antenna, Max Gain 0dBi.

Operation Frequency : 433.92 MHz

Channel number : 1

Modulation type : ASK

Power Supply : DC 6V Supply by battery

Rated PF  
output Power 74.27 dBuV (Peak detector)

Applicant : MW Products LTD.

Address : Flat D, 2/F, Effort Industrial Building, 2-8 Kung Yip Street,  
Kwai Chung, Hong Kong.

Manufacturer : MW Products LTD.

Address : Flat D, 2/F, Effort Industrial Building, 2-8 Kung Yip Street,  
Kwai Chung, Hong Kong.

### 1.2 Description of Test Facility

Shenzhen Certification Technology Service Co., Ltd.  
2F, Building B, East Area of Nanchang Second Industrial Zone,  
Gushu 2<sup>nd</sup> Road, Bao'an District, Shenzhen 518126, P.R. China  
FCC Registered No.:197647

## 2 EMC Equipment List

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	16/06/2012	1 Year
Spectrum analyzer	Agilent	E4407B	MY46185649	06/06/2012	1 Year
Receiver	R&S	ESCI	100492	04/06/2012	1 Year
Receiver	R&S	ESCI	101202	07/01/2012	1 Year
Bilog Antenna	Sunol	JB3	A121206	04/06/2012	1 Year
Horn Antenna	EMCO	3115	640201028-06	04/06/2012	1 Year
Power Meter	Anritsu	ML2487A	6K00001491	23/02/2012	1 Year
ETS Horn Antenna	ETS	3160	SEL0076	12/08/2012	1 Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	15/06/2012	1 Year
Cable	Resenberger	N/A	No.1	04/06/2012	1 Year
Cable	SCHWARZBECK	N/A	No.2	04/06/2012	1 Year
Cable	SCHWARZBECK	N/A	No.3	04/06/2012	1 Year
Pre-amplifier	R&S	AFS42-00101 800-25-S-42	SEL0081	18/06/2012	1 Year
Pre-amplifier	R&S	AFS33-180026 50-30-8P-44	SEL0080	18/06/2012	1 Year

### 3 Test Procedure

**POWER LINE CONDUCTED INTERFERENCE:** The test procedure used was ANSI Standard C63.4-2003 using a 50  $\mu$  H LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25 with a humidity of 58%.

**RADIATION INTERFERENCE:** The test procedure used was ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3MHz above 1 GHz. The ambient temperature of the EUT was 25 with a humidity of 58%.

**FORMULA OF CONVERSION FACTORS:** The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer and cable loss. The antenna correction factors and cable loss are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

$$\text{Freq (MHz) METER READING} + \text{ACF} + \text{CABLE} = \text{FS}$$
$$33.20 \text{ dBuV} + 10.36 \text{ dB} + 0.9 \text{ dB} = 44.46 \text{ dBuV/m} @ 3m$$

**ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES:** The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes. The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard C63.4-2003 10.1.7 with the EUT 40 cm from the vertical ground wall.

## 4 Summary of Measurement

### 4.1 Summary of test result

Test Item	Test Requirement	Stanadard Paragraph	Result
Spurious Emission	FCC PART 15: 2011	Section 15.231&15.209	Compliance
Conduction Emission	FCC PART 15: 2011	Section 15.207	Not applicable
Occupied bandwidth	FCC PART 15: 2011	Section 15.231	Compliance
Transmission time	FCC PART 15: 2011	Section 15.231	Compliance
Band Edge	FCC PART 15: 2011	Section 15.231	Not applicable
Antenna Requirement	FCC PART 15 : 2011	Section 15.203	Compliance

Note: The EUT has been tested as an independent unit. And Continual Transmitting in maximum power (The new battery be used during Test)

### 4.2 Block Diagram



### 4.3 Assistant equipment used for test

Description : N/A  
Manufacturer : N/A  
Model No. : N/A

#### 4.4 Test Conditions

Temperature range	21-25
Humidity range	40-75%
Pressure range	86-106kPa

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

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.50dB	
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.04dB	Polarize: V
	3.02dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	3.84dB	Polarize: H
	3.56dB	Polarize: V
Uncertainty for radio frequency	$1 \times 10^{-9}$	
Uncertainty for temperature	0.2	
Uncertainty for humidity	3%	
Uncertainty for DC and low frequency voltages	0.06%	

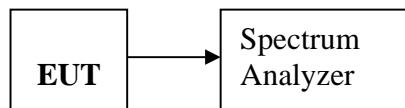
## 5 Radiation Emission

### 5.1 Duty cycle

#### 5.1.1 Method of measurement

- 5.1.1. Place the EUT on the table and set it in transmitting mode.
- 5.1.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 5.1.3. Set spectrum analyzer Center=433.9MHz, Span = 0MHz, Sweep = 50ms.
- 5.1.4. Set the spectrum analyzer as RBW, VBW=1MHz,
- 5.1.5. Max hold, view and count how many channel in the band.

#### 5.1.2 Test Setup

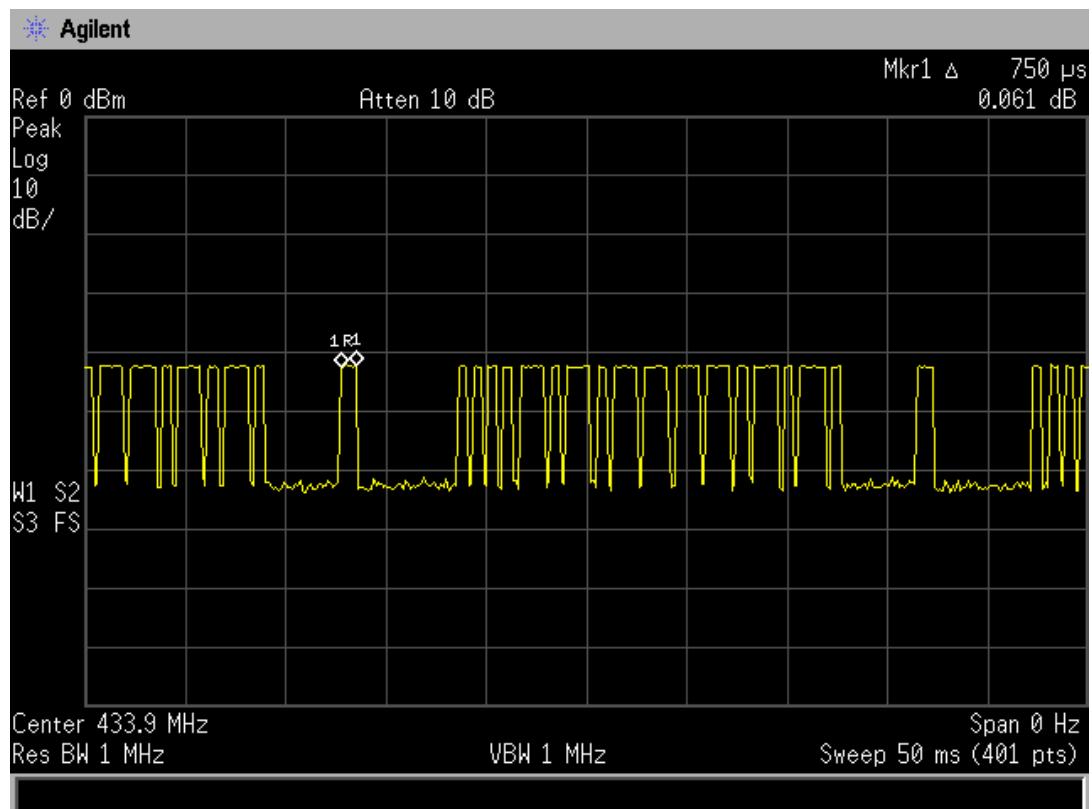
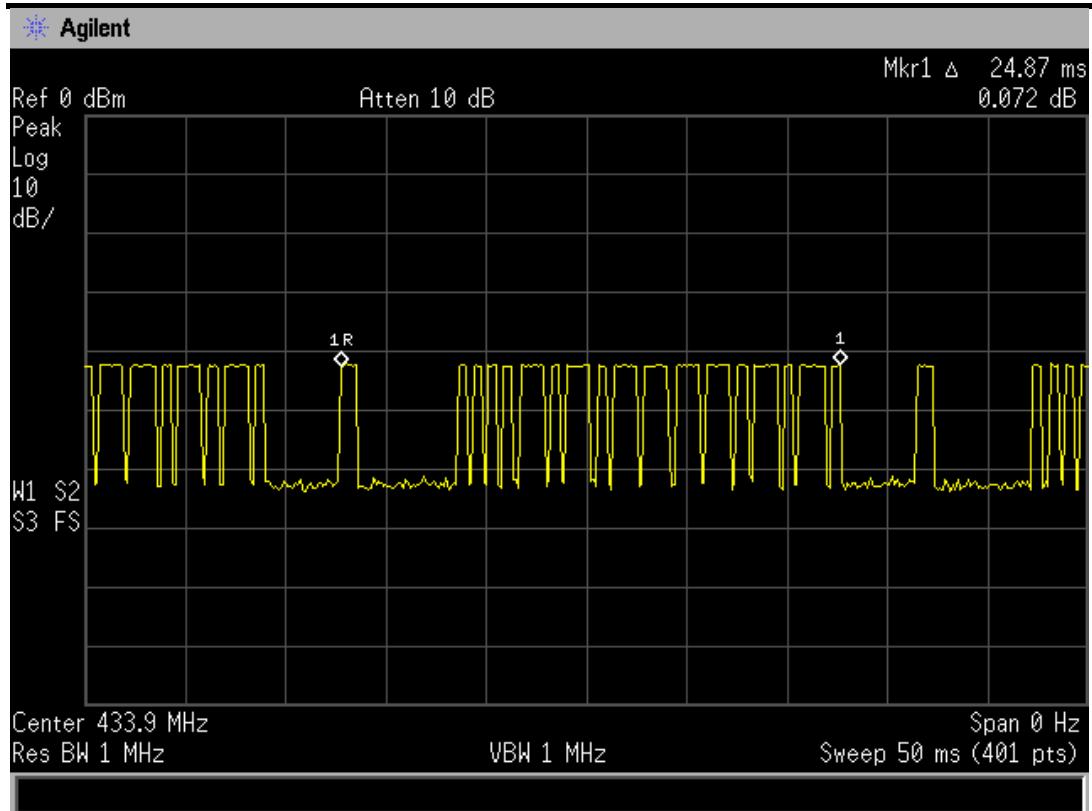


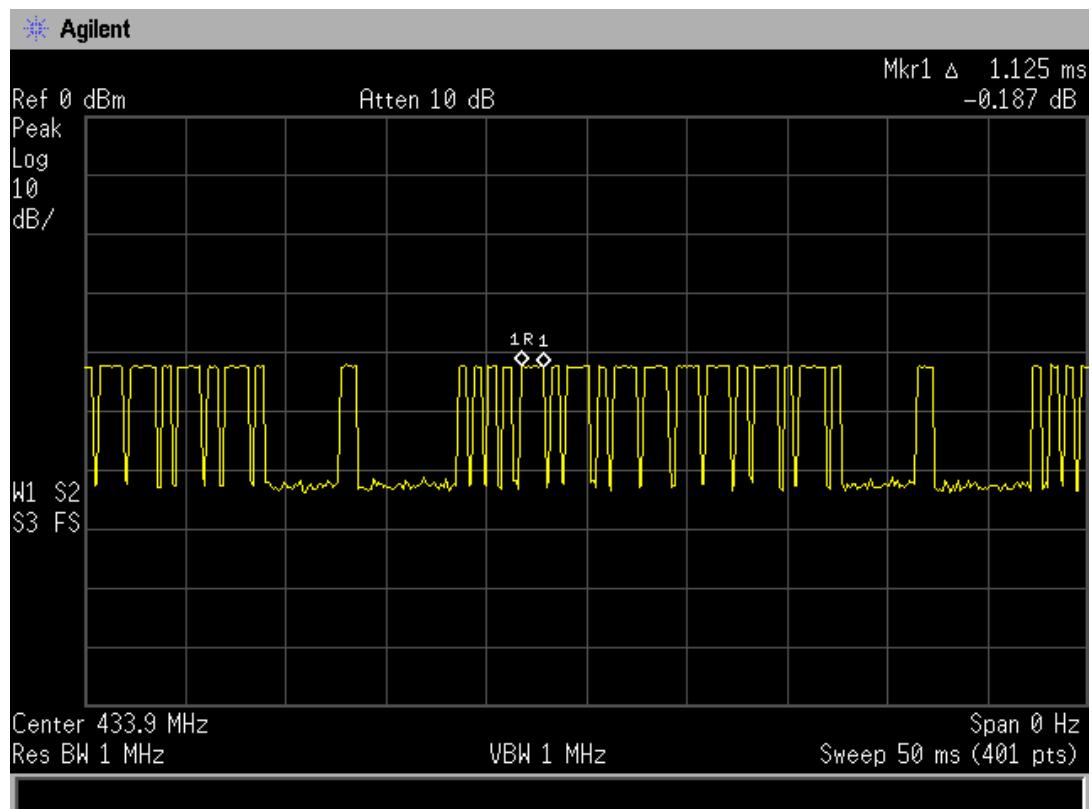
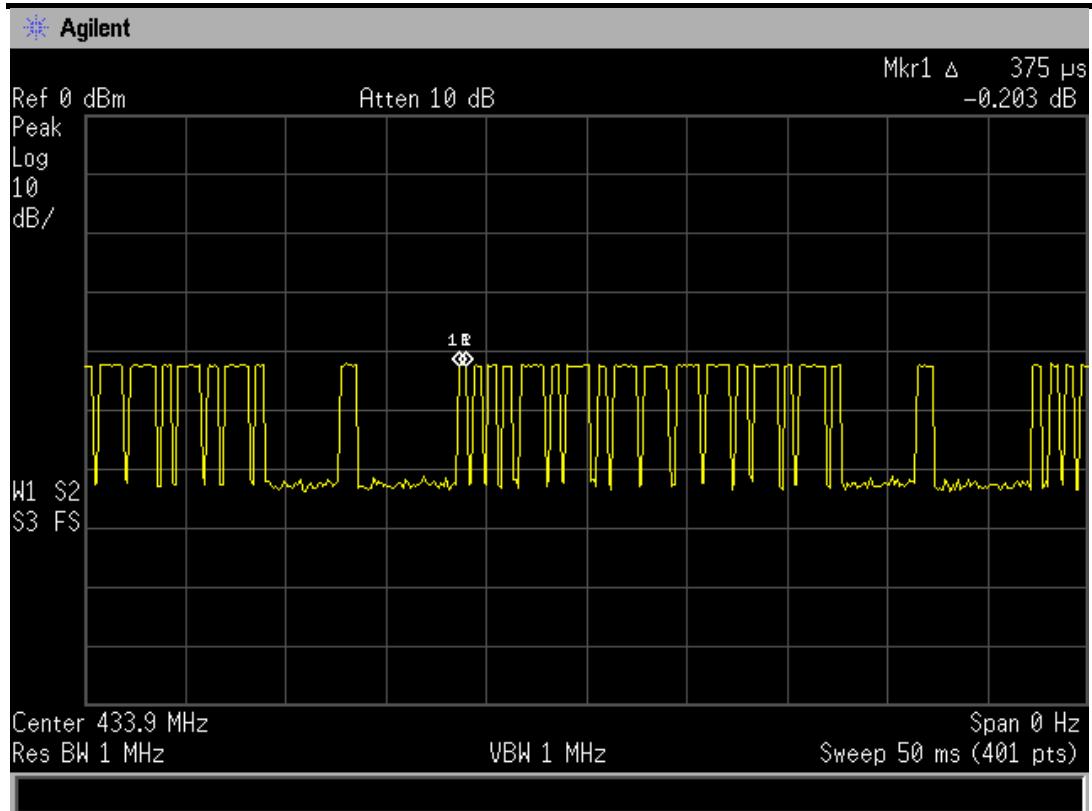
#### 5.1.3 Test Results

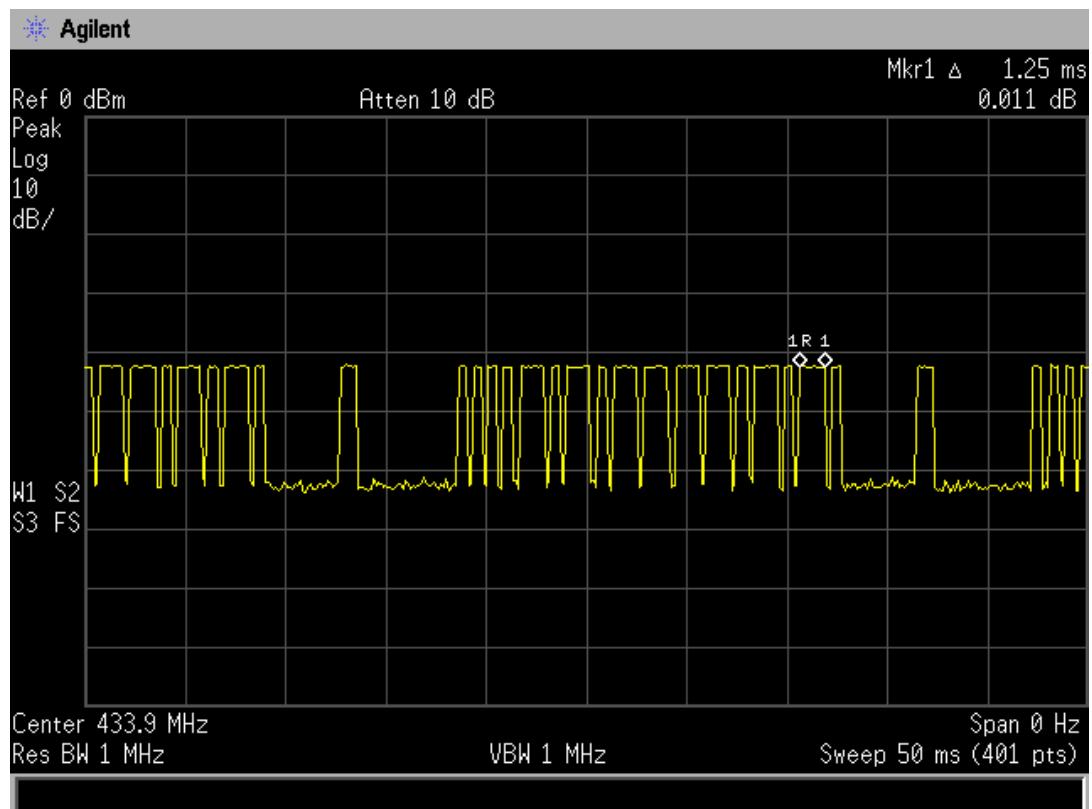
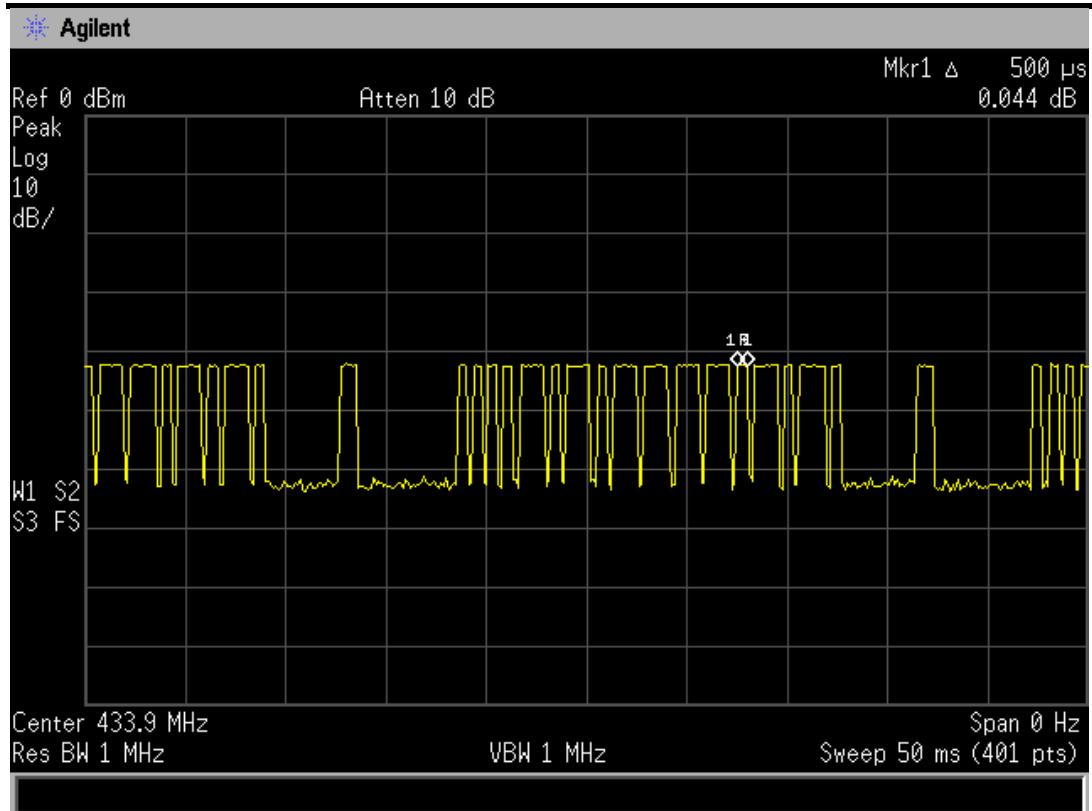
$$Ton=750*1+375*8+1125*7+1250*1+500*1=13375\mu s=13.375ms$$

$$\text{Duty Cycle} = Ton/24.87 = 13.375/24.87 = 53.780\%$$

Detailed information please see the following page.







## 5.2 Radiation Emission Limits(15.209&231)

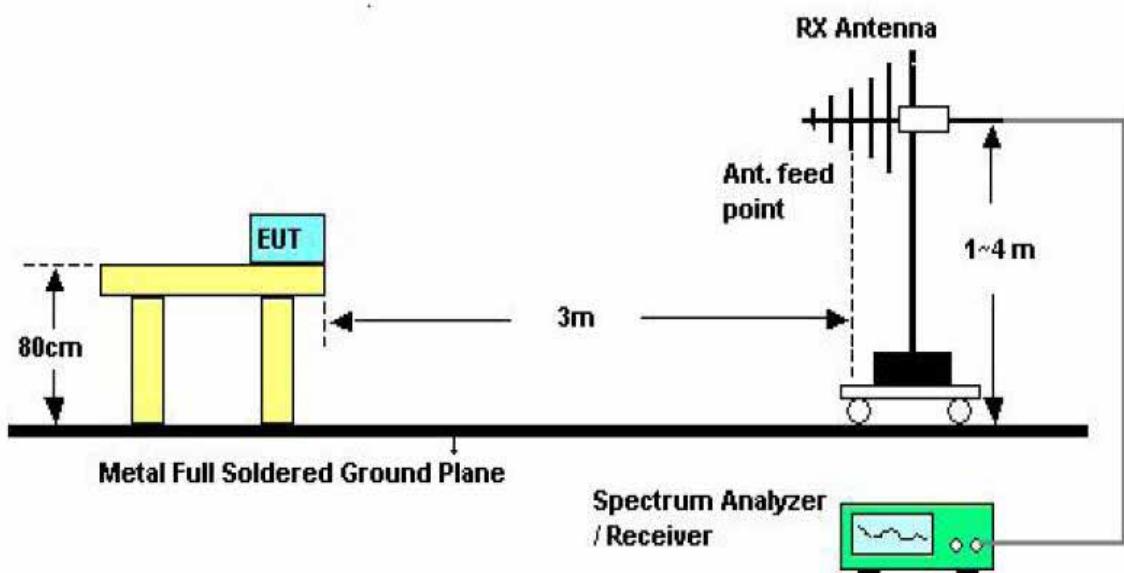
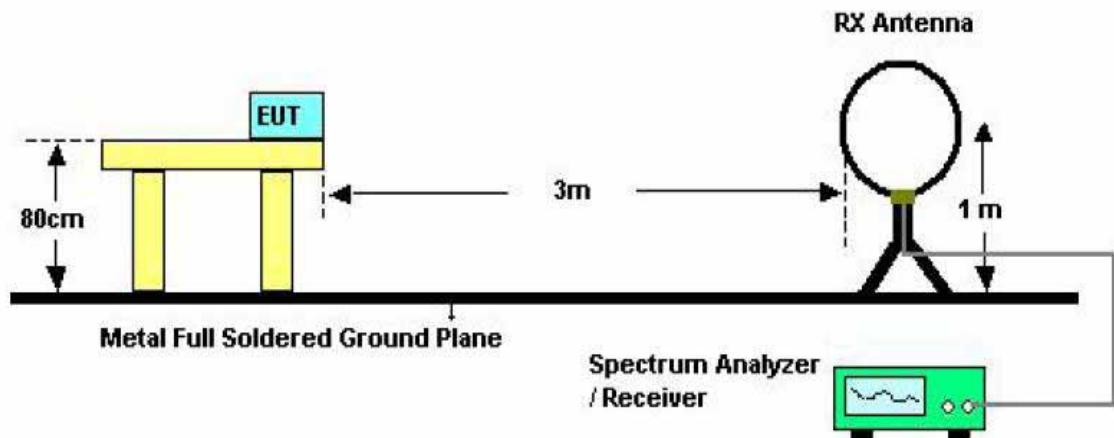
Frequency (MHz)	Field Strength Limits at 3 metres (watts, e.i.r.p.)		
	uV/m	dB uV/m	Measurement distance(m)
0.009-0.490	2400/F(kHz)	XX	300
0.490-1.705	24000/F(kHz)	XX	30
1.705-30	30	29.5	30
30~88	100(3nW)	40	3
88~216	150(6.8nW)	43.5	3
216~960	200(12nW)	46	3
Above960	500(75nW)	54	3
Carrier frequency		80.8(AV)	3
Carrier frequency		100.8(PK)	3

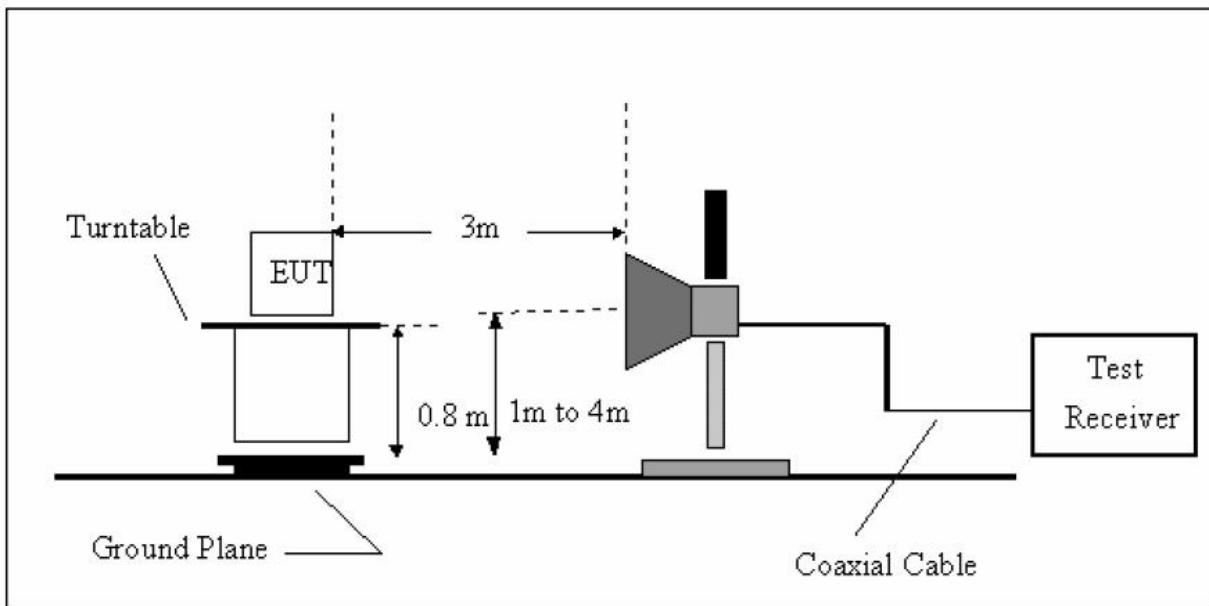
**NOTE:**

- The tighter limit applies at the band edges.
- Emission Level(dB uV/m)=20log Emission Level(Uv/m)

## 5.3 Test Setup

See the next page.





Above 1GHz Test Setup

#### 5.4 Test Procedure

- a) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1GHz, The EUT was placed on a rotating 0.8 m high above ground, The table was rotated 360 degrees to determine the position of the highest radiation
- b) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- c) The initial step in collecting conducted emission data is a spectrum analyzer Peak detector mode pre-scanning the measurement frequency range. Significant Peaks are then marked. and then Qusia Peak Detector mode remeasured
- d) If Peak value comply with QP limit Below 1GHz. The EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHz.
- e) For the actual test configuration, please see the test setup photo.

5.5 Test Equipment Setting For emission test.

9KHz~150KHz	RBW 200Hz	VBW1KHz
150KHz~30MHz	RBW 9KHz	VBW 30KHz
30MHz~1GHz	RBW 120KHz	VBW 300KHz
Above 1GHz	RBW 1MHz	VBW 3MHz

5.6 Test Condition

Continual Transmitting in maximum power(The new battery be used during Test)

5.7 Test Result

We have scanned the 10th harmonic from 9KHz to the EUT.

Detailed information please see the following page.

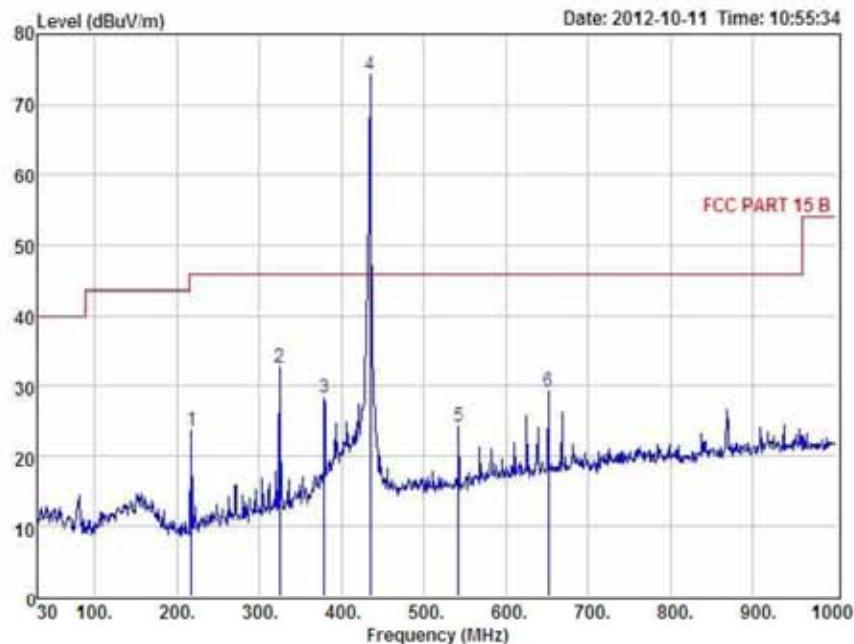
From 9KHz to 30MHz: Conclusion: **PASS**

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported

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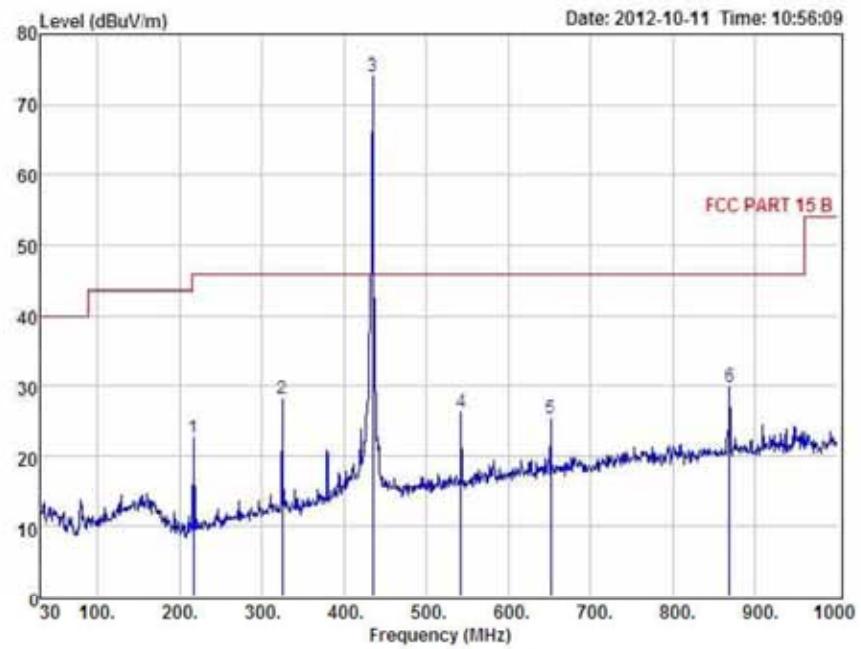


Condition : FCC PART 15 B 3m POL: HORIZONTAL  
 EUT : Predator Remote  
 Model No : MN-RC02  
 Test Mode : Working  
 Power : DC 6V Supply by battery  
 Test Engineer : Simple  
 Remark :

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	217.21	39.46	10.53	27.06	0.59	23.52	46.00	-22.48	QP
2	324.88	45.64	13.43	27.23	0.74	32.58	46.00	-13.42	QP
3	379.20	40.23	14.38	27.36	0.97	28.22	46.00	-17.78	QP
4	434.49	55.57	15.58	27.47	0.59	74.27	46.00	28.27	Peak
5	542.16	33.70	17.26	27.69	1.02	24.29	46.00	-21.71	QP
6	650.80	36.59	19.11	27.79	1.16	29.07	46.00	-16.93	QP



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Condition : FCC PART 15 B 3m POL: VERTICAL  
 EUT : Predator Remote  
 Model No : MN-RC02  
 Test Mode : Working  
 Power : DC 6V Supply by battery  
 Test Engineer : Simple  
 Remark :

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	216.24	38.70	10.41	27.05	0.55	22.61	46.00	-23.39	QP
2	324.88	41.21	13.43	27.23	0.74	28.15	46.00	-17.85	QP
3	434.49	85.32	15.58	27.47	0.59	74.02	46.00	28.02	Peak
4	542.16	35.63	17.26	27.69	1.02	26.22	46.00	-19.78	QP
5	650.80	32.78	19.11	27.79	1.16	25.26	46.00	-20.74	QP
6	866.08	34.66	21.23	27.68	1.47	29.90	46.00	-16.10	QP

<b>EUT</b>	Predator Remote	<b>Model Name</b>	MW-RC02
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 6V Supply by battery
<b>Test Mode</b>	TX		

**Notes:** Above is Below 1GHz test data

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV)</b>	<b>AV Reading (dBuV)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
1301.76	V	52.30	---	-10.84	41.46	---	74.00	54.00	-12.54	Peak
1735.68	V	53.32	---	-9.53	43.79	---	74.00	54.00	-10.21	Peak
2158.47	V	52.56	---	-8.24	44.32	---	74.00	54.00	-9.68	Peak
2817.65	V	45.78	---	-6.17	39.61	---	74.00	54.00	-14.39	Peak
N/A										

<b>EUT</b>	Predator Remote	<b>Model Name</b>	MW-RC02
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 6V Supply by battery
<b>Test Mode</b>	TX		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV)</b>	<b>AV Reading (dBuV)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
1301.76	H	55.51	---	-10.84	44.67	---	74.00	54.00	-9.33	Peak
1735.68	H	49.77	---	-9.53	40.24	---	74.00	54.00	-13.76	Peak
2046.35	H	50.66	---	-8.58	42.08	---	74.00	54.00	-11.92	Peak
2618.92	H	46.00	---	-7.04	38.96	---	74.00	54.00	-15.04	Peak
N/A										

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

## Radiated Emissions Result of Inside band (433.92MHz)

<b>EUT</b>	Predator Remote	<b>Model Name</b>	MW-RC02
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 6V Supply by battery
<b>Test Mode</b>	TX	<b>Antenna polarization</b>	Horizontal/Vertical

Channel (433.92MHz)										
Fre. MHz	Plority H/V	Reading dBuV	Antenna Factor dB	Cable Loss dB	Amplifier Gain dB	Correct Factor dB	Measure Result dBuV/m	Limit dBuV/m	Margin dB	
433.92	H	74.27 ( PK )	15.58	0.59	27.47	-11.30	62.97	100.8	-37.83	
433.92	H	68.88 (AV)	15.58	0.59	27.47	-11.30	57.58	80.8	-23.22	
--	H	--	--	--	--	--	--	--	--	
433.92	V	74.02 ( PK )	15.58	0.59	27.47	-11.30	62.72	100.8	-38.08	
433.92	V	68.63 (AV)	15.58	0.59	27.47	-11.30	57.33	80.8	-23.47	
--	V	--	--	--	--	--	--	--	--	

**Notes: 1** --Means other frequency and mode comply with standard requirements and at least have 20dB margin.

Correct Factor=Cable Loss+Antenna Factor-Amplifier Gain

Measurement Result=Reading + Correct Factor

Margin=Measurement Result-Limit

**2** –Spectrum setting:

- a. Peak setting 30MHz-1GHz, RBW=120KHz,VBW=300KHz.
- b. AV setting 30MHz-1GHz, RBW=1MHz,VBW=10Hz.

**3** –Average should be determined by duty cycle factor.

the total on time in 24.87ms is 13.375ms,

Duty cycle factor =  $20 \log (13.375/24.87) = -5.39$

Average = peak value – 5.39 dB

**4** –The signal bandwidth was measured and less then 100KHz RBW so PDCF factor is not required.

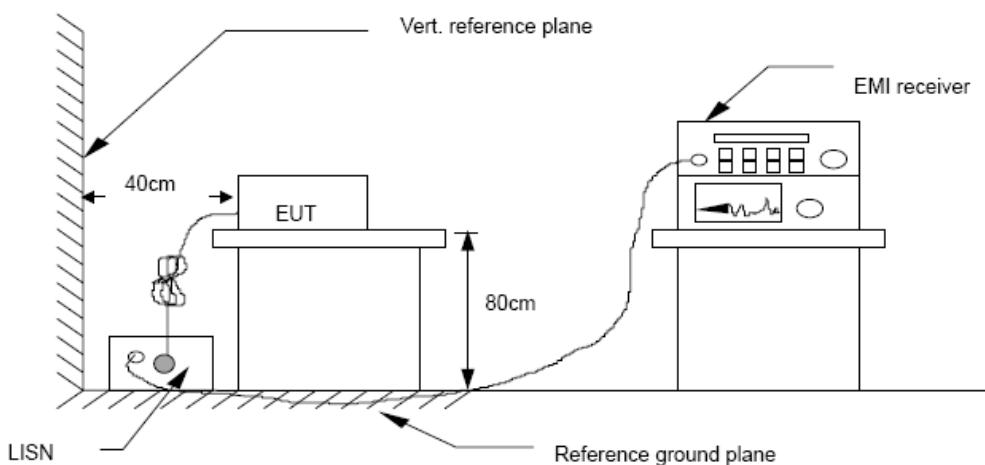
## 6 POWER LINE CONDUCTED EMISSION

### 6.1 Conducted Emission Limits(15.209)

Frequency MHz	Limits dB( $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 -0.50	66 -56*	56 - 46*
0.50 -5.00	56	46
5.00 -30.00	60	50

- Notes: 1. \*Decreasing linearly with logarithm of frequency.  
2. The lower limit shall apply at the transition frequencies.  
3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

### 6.2 Test Setup



### 6.3 Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines 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 C63.4-2003 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9 kHz.

### 6.4 Test Results

EUT power supply by battery, so the test not applicable.

## 7 Occupied bandwidth

### 7.1 Test limit

Please refer section 15.231

According to §15.231(C), The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz.

### 7.2 Method of measurement

- a) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.
- b) The test receiver RBW set 30KHZ, VBW set 30KHZ, Sweep time set auto.

### 7.3 Test Setup

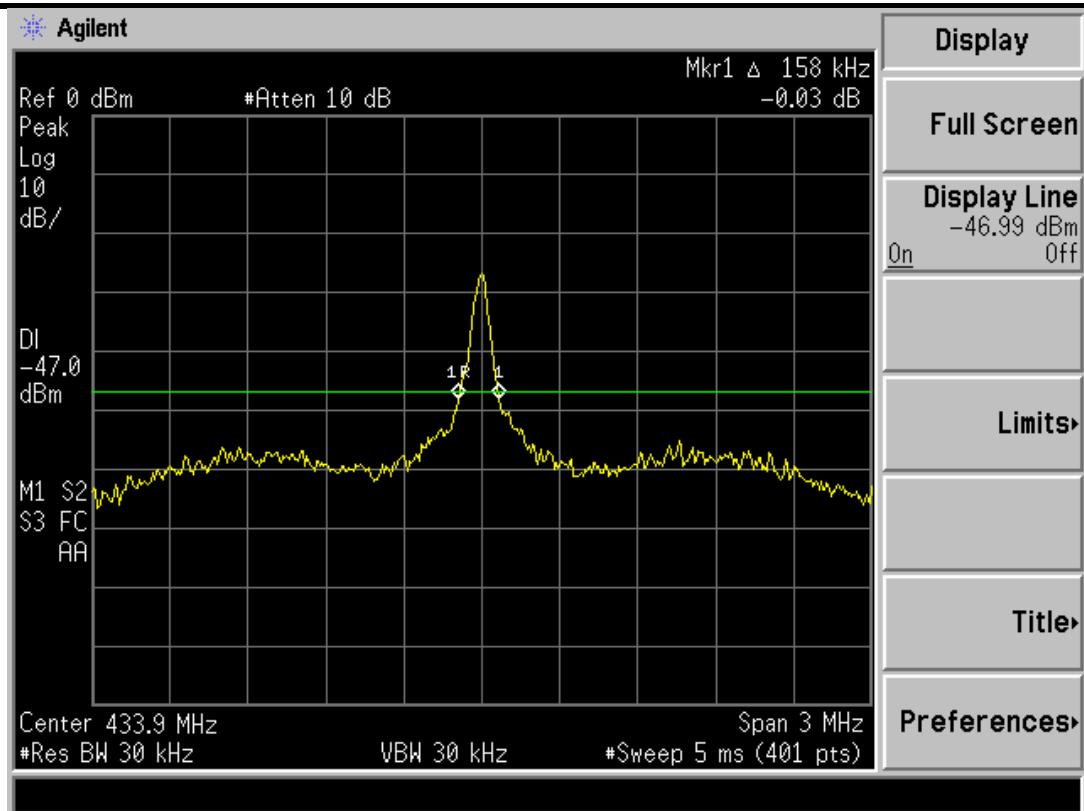


### 7.4 Test Results

PASS.

Detailed information please see the following page.

Frequency	Test Result	Limit	Result
433.9Mhz	158KHz	<1.08MHz	Pass



## 8 Transmission time

### 8.1 Test limit

Please refer section 15.231

According to §15.231(a)(1), A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

According to §15.231(a)(2), A transmitter activated automatically shall cease transmission within 5 seconds after activation.

### 8.2 Method of measurement

7.2.1. Place the EUT on the table and set it in transmitting mode.

7.2.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

7.2.3. Set spectrum analyzer Center=433.9MHz, Span = 0MHz, Sweep = 200ms.

7.2.4. Set the spectrum analyzer as RBW, VBW=1MHz,

7.2.5. Max hold, view and count how many channel in the band.

### 8.3 Test Setup

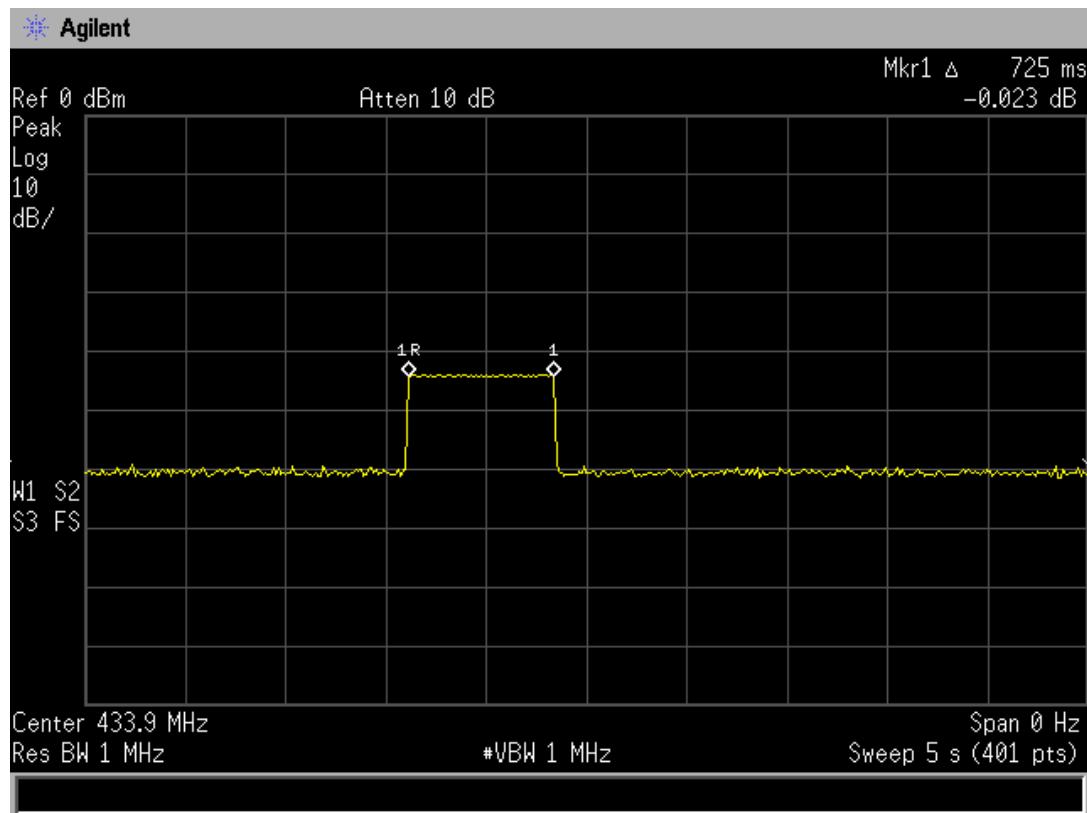


### 8.4 Test Results

PASS.

Detailed information please see the following page.

Frequency	Test Result	Limit	Result
433.92MHz	725ms	< 5s	Pass



## 9 Band Edge Check

### 9.1 Test limit

Please refer section 15.231 and section 15.205.

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

### 9.2 Test Procedure

- 11.2.1 Put the EUT on a 0.8m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission
- 11.2.2 Turning to Low and High frequency, then reduced 50dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency.
- 11.2.3 Check the spurious emissions out of band.
- 11.2.4 RBW, VBW Setting, please see the following test plot.

### 9.3 Test Setup

Same to 5.2

### 9.4 Test Result

The Restricted bands is 399.9-410MHz and 608-614MHz, The EUT operation frequency is 433.92MHz, The test is not applicable.

## 10 Antenna Requirement

### 10.1 Standard Requirement

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 use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### 10.2 Antenna Connected Construction

The directional gains of antenna used for transmitting is 0 dBi, and the antenna connector is de- signed with permanent attachment and no consideration of replacement. Please see EUT photo for details.

### 10.3 Result

The EUT antenna is telescope antenna a. It comply with the standard requirement.

## 11 Photographs of Test Setup

### Photographs-Radiated Emission Test Setup in Chamber

Below 1G



Above 1G



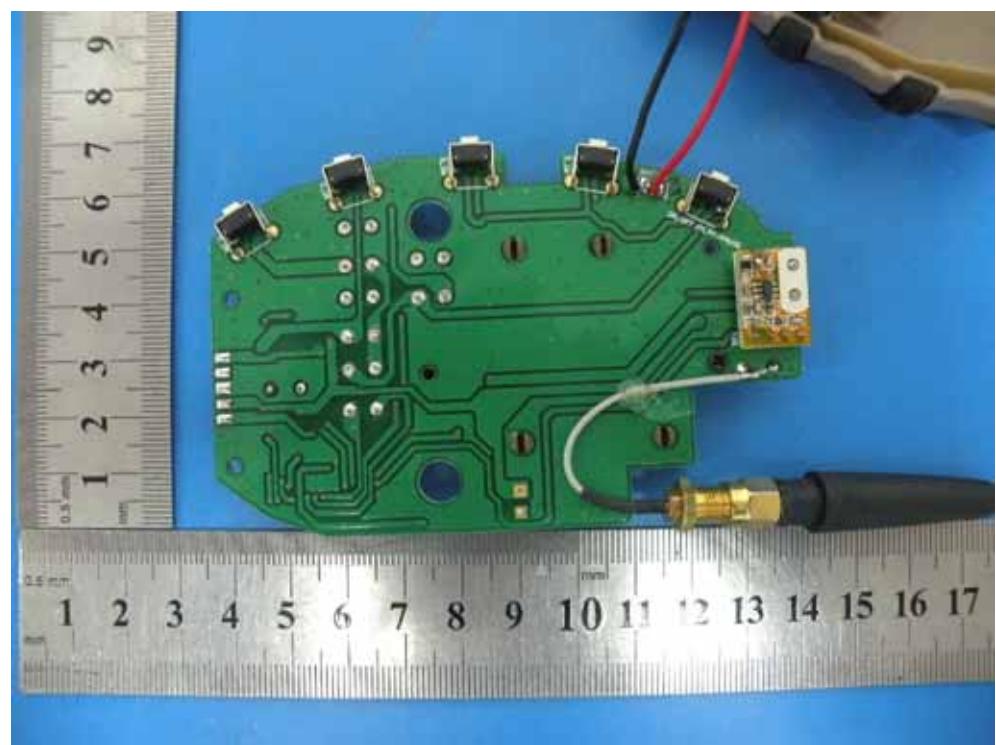
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## 12 Photographs of EUT











-----END OF THE REPORT-----