

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT****INTENTIONAL RADIATOR CERTIFICATION TO  
FCC PART 15 SUBPART C REQUIREMENT  
CLASS II PERMISSIVE CHANGE**

OF

**Product Name:** Motion Detector and Transmitter

**Brand Name:** N/A

**Model Name:** WP-100

**Model Difference:** N/A

**FCC ID:** HCQ3B6PORPIR

**Report No.:** ER/2006/80013-01

**Issue Date:** Jun. 12, 2007

**FCC Rule Part:** §15.231

**Prepared for** Invonics Wireless Corporation  
315 CTC Boulevard Louisville, Co 80027

**Prepared by** SGS Taiwan Ltd.  
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**VERIFICATION OF COMPLIANCE**

**Applicant:** Invonics Wireless Corporation  
 315 CTC Boulevard Louisville, Co 80027

**Product Description:** Motion Detector and Transmitter

**Brand Name:** N/A

**Model No.:** WP-100

**FCC ID:** HCQ3B6PORPIR

**Model Difference:** N/A

**File Number:** ER/2006/80013-01

**Date of test:** Jun. 05, 2007 ~ Jun. 08, 2007

**Date of EUT received:** Jun. 01, 2007

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.231.

The test results of this report relate only to the tested sample identified in this report.

<b>Test By:</b>	<i>Danny Yeh</i>	<b>Date</b>	Jun. 12, 2007
	_____		_____
	<i>Danny Yeh / Engineer</i>		
<b>Prepared By:</b>	<i>Eva Kao</i>	<b>Date</b>	Jun. 12, 2007
	_____		_____
	<i>Eva Kao / Sr. Engineer</i>		
<b>Approved By:</b>	<i>Vincent Su</i>	<b>Date</b>	Jun. 12, 2007
	_____		_____
	<i>Vincent Su / Manager</i>		

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## Version

Version No.	Date
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## Table of Contents

<b>1.</b>	<b>GENERAL INFORMATION .....</b>	<b>6</b>
1.1	PRODUCT DESCRIPTION .....	6
1.2	RELATED SUBMITTAL(S) / GRANT (S) .....	6
1.3	TEST METHODOLOGY.....	6
1.4	TEST FACILITY .....	6
<b>2.</b>	<b>SYSTEM TEST CONFIGURATION .....</b>	<b>7</b>
2.1	EUT CONFIGURATION.....	7
2.2	EUT EXERCISE .....	7
2.3	TEST PROCEDURE.....	7
2.4	LIMITATION.....	8
2.5	CONFIGURATION OF TESTED SYSTEM.....	10
<b>3.</b>	<b>SUMMARY OF TEST RESULTS .....</b>	<b>11</b>
<b>4.</b>	<b>DESCRIPTION OF TEST MODES .....</b>	<b>11</b>
<b>5.</b>	<b>CONDUCTED EMISSIONS TEST (NOT APPLY IN THE REPORT) .....</b>	<b>12</b>
5.1	MEASUREMENT PROCEDURE: .....	12
5.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) .....	12
5.3	MEASUREMENT EQUIPMENT USED: .....	12
5.4	MEASUREMENT RESULT: .....	12
<b>6.</b>	<b>RADIATED EMISSION TEST .....</b>	<b>13</b>
6.1	MEASUREMENT PROCEDURE.....	13
6.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) .....	13
6.3	MEASUREMENT EQUIPMENT USED: .....	14
6.4	FIELD STRENGTH CALCULATION .....	14
6.5	MEASUREMENT RESULT .....	15
<b>7.</b>	<b>OCCUPIED BANDWIDTH.....</b>	<b>17</b>
7.1	MEASUREMENT PROCEDURE.....	17
7.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) .....	17
7.3	MEASUREMENT EQUIPMENT USED: .....	17
7.4	MEASUREMENT RESULTS.....	17

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<b>8.</b>	<b>DUTY CYCLE MEASUREMENT .....</b>	<b>18</b>
8.1	MEASUREMENT PROCEDURE.....	18
8.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) .....	18
8.3	MEASUREMENT EQUIPMENT USED: .....	18
8.4	MEASUREMENT RESULTS:.....	18
<b>9.</b>	<b>RELEASE TIME MEASUREMENT: .....</b>	<b>18</b>
9.1	MEASUREMENT PROCEDURE.....	19
9.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) .....	19
9.3	MEASUREMENT EQUIPMENT USED: .....	19
9.4	MEASUREMENT RESULTS.....	19

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## 1. GENERAL INFORMATION

### 1.1 Product Description

The Invonics Wireless Corporation., Model: WP-100 (referred to as the EUT in this report) is a Motion Detector and Transmitter.

A major technical descriptions of EUT is described as following:

- A). Operation Frequency: 433.92 MHz
- B). Modulation: Frequency Shift Key Modulation (FSK)
- C). Antenna Designation: Non-User Replaceable (Fixed)
- D). Power Supply: TX: 6V from CR123A battery\*2.

### 1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: HCQ3B6PORPIR** filing to comply with Section 15.231 of the FCC Part 15, Subpart C Rules.

### 1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

### 1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the address of SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003 and CISPR 22/EN 55022 requirements. Site No. 1(3 &10 meters) Registration Number: 94644, Both OATS and Anechoic chamber (3 meters) was accredited by TAF (0513). Canada Registration Number: 4620A-1

### 1.5 Special Accessories

Not available for this EUT intended for grant.

### 1.6 Equipment Modifications

Not available for this EUT intended for grant.

## 2. System Test Configuration

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. the Tx frequency was fixed which was for the purpose of the measurements.

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 & 13 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

#### 2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 & 13 of ANSI C63.4-2003.

## 2.4 Limitation

### (1) Conducted Emission (Not applicable in this report)

According to section 15.207(a) Conducted Emission Limits is as following.

Frequency range MHz	Limits dB (uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.



**(2) Radiated Emission**

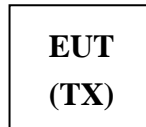
According to 15.231(b), the field strength of emissions from Intentional Radiators operated under this section shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental		Field Strength of Spurious	
	(dBuV/m)	(uV/m)	(dBuV/m)	(uV/m)
40.66 - 40.70	67.04	2,250	40	100
70 - 130	61.94	1,250	34	50
130 - 174	* 61.94 - 71.48	* 1,250 -3,750	* 34 - 43.5	* 50 to 150
174 - 260	71.48	3,750	43.5	150
260 - 470	* 71.48 - 81.94	* 3,750 - 12,500	* 43.5 - 54	* 150 to 500
above 470	81.94	12,500	74	500

- Remark:
1. Emission level in dBuV/m=20 log (uV/m)
  2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
  3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of § 15.205
  4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of §15.205, then the general radiated emission limits in § 15.209 apply.
  5. For the band 130-174MHz, uV/m at 3meters = 56.81818(F) – 6136.3636;  
For the band 260-470MHz uV/m at 3meters = 41.6667(F) – 7083.3333;  
Where F is the frequency in MHz.
  6. 433.92MHz limit =20log( 41.6667 \* 433.92 – 7083.3333) =20log10996.681 uV/m = 80.8dBuV/m

## 2.5 Configuration of Tested System

**Fig. 2-1 Configuration of Tested System (TX)**



**Table 2-1 Equipment Used in Tested System**

Item	Equipment	Mfr/Brand	Model/ Type No.	FCC ID	Series No.	Data Cable	Power Cord
1.	N/A						

### 3. Summary Of Test Results

FCC Rules	Description Of Test	Result
§ 15.207	Conducted Emission	N/A
§ 15.231	Radiated Emission	Compliant
§ 15.231(c)	20dB Bandwidth	N/A
	Duty Cycle Test (Pulse Modulation)	N/A
§ 15.231(a)(1)	Release Time Measurement	N/A

### 4. Description of test modes

This is a class II permissive change project.

The EUT has been tested under engineering test mode condition. and the EUT staying in continuous transmitting mode.

The Frequency 433.92MHz is chosen for radiated testing.

## 5. Conducted Emissions Test (Not apply in the report)

### 5.1 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

### 5.2 Test SET-UP (Block Diagram of Configuration)

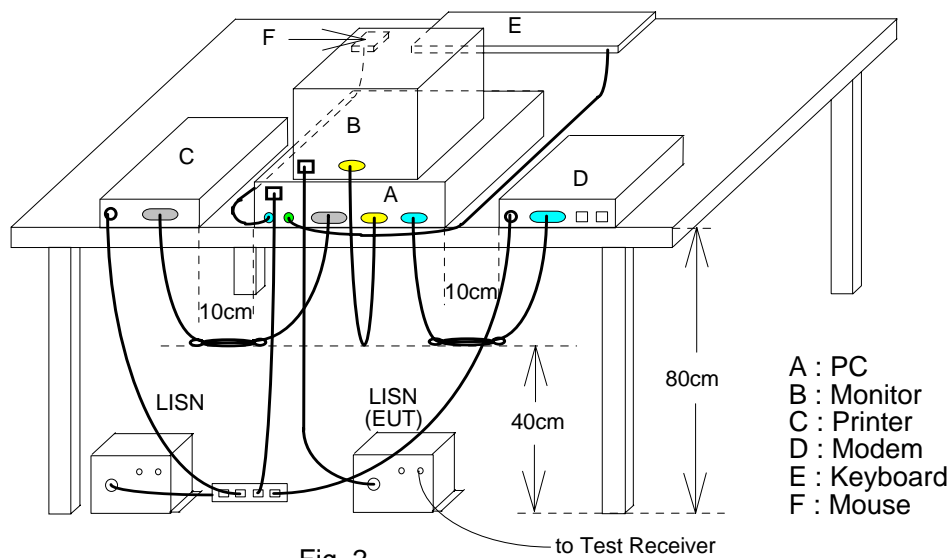


Fig. 2

### 5.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMC Analyzer	HP	8594EM	3624A00203	12/31/2006	12/30/2007
EMI Test Receiver	R&S	ESCS30	828985/004	01/15/2007	01/14/2008
LISN	Rolf-Heine	NNB-2/16Z	99012	12/30/2006	12/29/2007
LISN	Rolf-Heine	NNB-2/16Z	99013	11/06/2006	11/05/2007

### 5.4 Measurement Result:

N/A. Powered by 6Vdc Battery

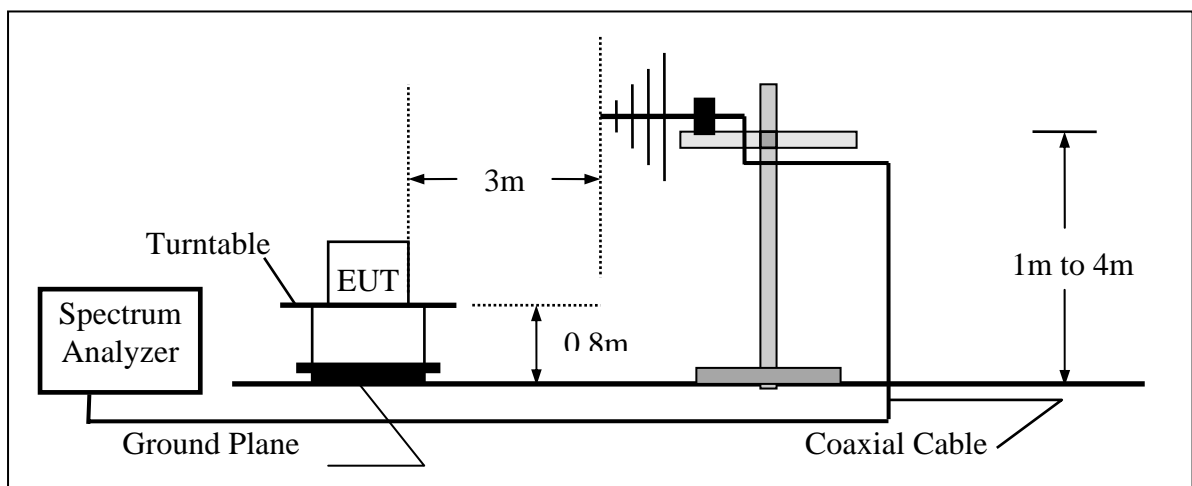
## 6. Radiated Emission Test

### 6.1 Measurement Procedure

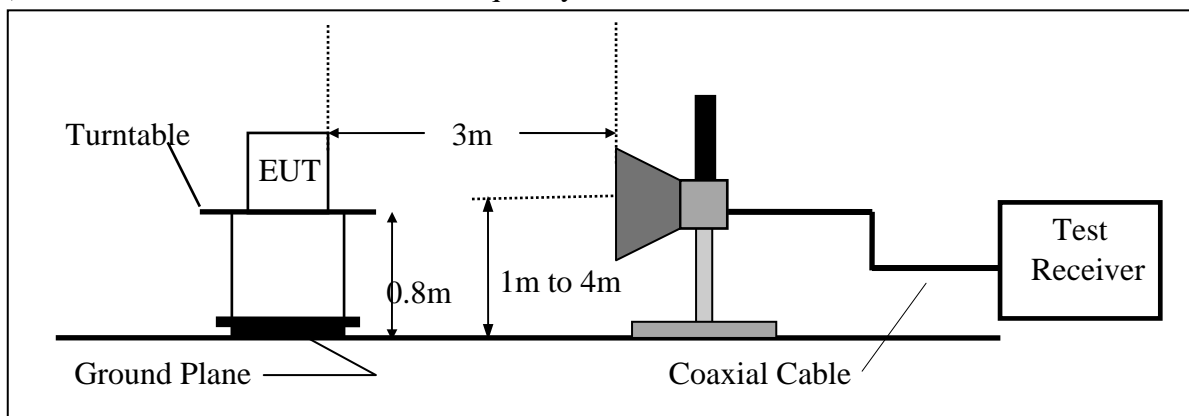
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

### 6.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-Up Frequency Over 1 GHz



**6.3 Measurement Equipment Used:**

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	05/27/2007	05/26/2008
Spectrum Analyzer	Agilent	E7405A	US41160416	08/27/2006	08/27/2007
Bilog Antenna	SCHWAZBECK	VULB9160	3224	11/14/2006	11/13/2007
Horn Antenna	SCHWAZBECK	BBHA 9120D	309/320	08/16/2006	08/15/2007
Pre-Amplifier	HP	8447D	2944A09469	07/19/2006	07/18/2007
Pre-Amplifier	HP	8449B	3008A00578	02/26/2007	02/25/2008
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	10/09/2006	10/08/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2006	10/08/2007
Site NSA	SGS	966 chamber	N/A	11/17/2006	11/16/2007

**6.4 Field Strength Calculation**

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Average Value = Peak Value + 20 Log (Ton/Tp) ..... Pulse Modulation

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

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### 6.5 Measurement Result

Operation Mode:	Transmitting Mode	Test Date:	Jun. 08, 2007
Fundamental Frequency:	433.92 MHz	Test By:	Jazz
Temperature :	25 °C	Pol:	Vertical
Humidity :	65 %		

Freq. (MHz)	F /S	Ant.Pol (H/V)	Peak Reading (dBUV)	AV Reading (dBUV)	Ant./CL CF(dB)	Peak Level (dBUV/m)	AV Level (dBUV/m)	Peak Limit (dBUV/m)	AV Limit (dBUV/m)	Margin (dB)	
433.9	F	V	87.87	--	-9.59	78.28	--	100.80	80.80	-2.52	PK
867.8	S	V	50.45	--	-2.16	48.29	--	80.80	60.80	-12.51	PK
1301.8	*S	V	52.46	--	-6.81	45.65	--	74.00	54.00	-8.35	PK
1735.7	S	V	25.36	--	-4.79	20.57	--	80.80	60.80	-40.23	PK
2169.6	S	V	39.29	--	-2.54	36.75	--	80.80	60.80	-24.05	PK
2603.5	S	V	--	--	--	--	--	80.80	60.80		
3037.4	S	V	--	--	--	--	--	80.80	60.80		
3471.4	S	V	--	--	--	--	--	80.80	60.80		
3905.3	*S	V	--	--	--	--	--	74.00	54.00		
4339.2	*S	V	--	--	--	--	--	74.00	54.00		

Remark :

- (1) + F/S F : denotes Fundamental Frequency ; S : denotes Spurious Frequency
- (2) EUT Orthogonal Axes : X denotes Laid on Table ; Y denotes Vertical Stand .
- (3) Measuring frequencies from 30 MHz to the 10th harmonic of fundamental frequency of 433.92 MHz .
- (4) Dates of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) \* Denotes spurious frequency, which falls within the Restricted Bands specified in provision of §15.205, then the general radiated emission limits in § 15.209 apply.
- (6) Peak Setting: 30MHz – 1000MHz, RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 5GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms

Operation Mode:	Transmitting Mode	Test Date:	Jun. 08, 2007
Fundamental Frequency:	433.92 MHz	Test By:	Jazz
Temperature :	25 °C	Pol:	Horizontal
Humidity :	65 %		

Freq. (MHz)	F /S	Ant.Pol (H/V)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF(dB)	Peak Level (dBuV/m)	AV Level (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	
433.9	F	H	93.56	76.47	-9.59	83.97	66.88	100.80	80.80	-13.92	AV
871.0	S	H	40.11	--	-2.16	37.95	--	80.80	60.80	-22.85	PK
1301.8	*S	H	42.31	--	-6.81	35.50	--	74.00	54.00	-18.50	PK
1735.7	S	H	44.79	--	-4.79	40.00	--	80.80	60.80	-20.80	PK
2169.6	S	H	41.02	--	-2.54	38.48	--	80.80	60.80	-22.32	PK
2603.5	S	H	38.86	--	-0.60	38.26	--	80.80	60.80	-22.54	PK
3037.4	S	H	--	--	--	--	--	80.80	60.80		
3471.4	S	H	--	--	--	--	--	80.80	60.80		
3905.3	*S	H	--	--	--	--	--	74.00	54.00		
4339.2	*S	H	--	--	--	--	--	74.00	54.00		

Remark :

- (1) + F/S F : denotes Fundamental Frequency ; S : denotes Spurious Frequency
- (2) EUT Orthogonal Axes : X denotes Laid on Table ; Y denotes Vertical Stand .
- (3) Measuring frequencies from 30 MHz to the 10th harmonic of fundamental frequency of 433.92 MHz .
- (4) Dates of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) \* Denotes spurious frequency, which falls within the Restricted Bands specified in provision of §15.205, then the general radiated emission limits in § 15.209 apply.
- (6) Peak Setting: 30MHz – 1000MHz, RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 5GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms



## 7. Occupied Bandwidth

### 7.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation
3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10KHz, Span =100KHz.
4. Set SPA Max hold. Mark peak, -20dB.

### 7.2 Test SET-UP (Block Diagram of Configuration)

Same as 6.3 Radiated Emission Measurement.

### 7.3 Measurement Equipment Used:

Same as 6.3 Radiated Emission Measurement.

### 7.4 Measurement Results

N/A

## 8. Duty Cycle Measurement

### 8.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set ETU normal operating mode.
3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 100KHz, Span =0 Hz. Adjacent sweep.
4. Set SPA View. Mark delta.

### 8.2 Test SET-UP (Block Diagram of Configuration)

Same as 6.3 Radiated Emission Measurement.

### 8.3 Measurement Equipment Used:

Same as 6.3 Radiated Emission Measurement.

### 8.4 Measurement Results:

N/A, the device is not pulse modulation.

## 9. Release Time Measurement:

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.

### 9.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 100KHz, Span =0Hz. Sweep Time= 5s.
3. Set EUT as normal operation and something get close for around 2 s.
4. Set SPA Max hold. Delta Mark.

### 9.2 Test SET-UP (Block Diagram of Configuration)

Same as 6.3 Radiated Emission Measurement.

### 9.3 Measurement Equipment Used:

Same as 6.3 Radiated Emission Measurement.

### 9.4 Measurement Results

N/A