



## **STC Test Report**

Date : 2010-06-07

Page 1 of 19

No. : MH184083

**Applicant (C00001):**

King Golden Ltd.(Speed passion)  
Flat D, 8/F., Wing Hin Factory Bldg., 31-33 Ng Fong Street,  
Sam Po Kong, Kowloon, H.K.

**Manufacturer:**

Dong Guan Flysky RC. Model Technology Co., Ltd  
West Building 3, Huangjiangyuan Ind Park QiaoLi North  
Gate ChangPing Town Dongguan China

**Description of Sample(s):**

Product: 2.4G 2CH Control Radio  
Brand Name: Speed passion  
Model Number: KG-GT2  
FCC ID: YIUSPCARRERA2

**Date Sample(s) Received:**

2010-05-13

**Date Tested:**

2010-06-03

**Investigation Requested:**

Perform ElectroMagnetic Interference measurement in  
accordance with FCC 47CFR [Codes of Federal Regulations]  
Part 15: 2009 and ANSI C63.4:2003 for FCC Certification.

**Conclusion(s):**

The submitted product COMPLIED with the requirements of  
Federal Communications Commission [FCC] Rules and  
Regulations Part 15. The tests were performed in accordance  
with the standards described above and on Section 2.2 in this  
Test Report.

**Remark(s):**

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Dr. LEE Kam Chuen  
Authorized Signatory  
ElectroMagnetic Compatibility Department  
For and on behalf of  
The Hong Kong Standards and Testing Centre Ltd.

**The Hong Kong Standards and Testing Centre Ltd.**

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## **STC Test Report**

Date : 2010-06-07

Page 2 of 19

No. : MH184083

### **CONTENT:**

Cover	Page 1 of 19	
Content	Page 2-3 of 19	
<b><u>1.0</u></b>	<b><u>General Details</u></b>	
1.1	Test Laboratory	Page 4 of 19
1.2	Applicant Details	Page 4 of 19
	Applicant	
	Manufacturer	
1.3	Equipment Under Test [EUT]	Page 5 of 19
	Description of EUT operation	
1.4	Date of Order	Page 5 of 19
1.5	Submitted Sample	Page 5 of 19
1.6	Test Duration	Page 5 of 19
1.7	Country of Origin	Page 5 of 19
<b><u>2.0</u></b>	<b><u>Technical Details</u></b>	
2.1	Investigations Requested	Page 6 of 19
2.2	Test Standards and Results Summary	Page 6 of 19
<b><u>3.0</u></b>	<b><u>Test Results</u></b>	
3.1	Radiated Emission	Page 7-14 of 19

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## **STC Test Report**

Date : 2010-06-07

Page 3 of 19

No. : MH184083

### **Appendix A**

List of Measurement Equipment

Page 15 of 19

### **Appendix B**

Duty Cycle Correction During 100 msec

Page 16-17 of 19

### **Appendix C**

Photographs

Page 18-19 of 19

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## **STC Test Report**

Date : 2010-06-07

Page 4 of 19

No. : MH184083

### **1.0 General Details**

#### **1.1 Test Laboratory**

The Hong Kong Standards and Testing Centre Ltd.  
EMC Laboratory  
10 Dai Wang Street, Taipo Industrial Estate  
New Territories, Hong Kong

#### **1.2 Applicant Details Applicant**

King Golden Ltd.(Speed passion)  
Flat D, 8/F., Wing Hin Factory Bldg., 31-33 Ng Fong Street, Sam Po Kong. Kowloon, H.K.

#### **Manufacturer**

Dong Guan Flysky RC. Model Technology Co., Ltd  
West Building 3, Huangjiangyuan Ind Park QiaoLi North Gate ChangPing Town Dongguan  
China

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## **STC Test Report**

Date : 2010-06-07

Page 5 of 19

No. : MH184083

### **1.3 Equipment Under Test [EUT] Description of Sample(s)**

Product: 2.4G 2CH Control Radio  
Manufacturer: Dong Guan Flysky RC. Model Technology Co., Ltd  
Brand Name: Speed passion  
Model Number: KG-GT2  
Input Voltage: 12Vd.c. ("AA" size battery×8)

#### **1.3.1 Description of EUT Operation**

The Equipment Under Test (EUT) is a King Golden Ltd.(Speed passion), 2.4G 2CH Control Radio. The transmission signal is frequency hopping with channel frequency range 2402.0.-2478.0MHz during normal use. The EUT was set to fixed frequency test mode by application

### **1.4 Date of Order**

2010-05-13

### **1.5 Submitted Sample(s):**

1 Sample

### **1.6 Test Duration**

2010-06-03

### **1.7 Country of Origin**

China

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Date : 2010-06-07

Page 6 of 19

No. : MH184083

### **2.0 Technical Details**

#### **2.1 Investigations Requested**

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2009 Regulations and ANSI C63.4:2003 for FCC Certification.

#### **2.2 Test Standards and Results Summary Tables**

<b>EMISSION Results Summary</b>						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Fail	N/A
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.249	ANSI C63.4:2003	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.4:2003	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note: N/A - Not Applicable

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## **STC Test Report**

Date : 2010-06-07

Page 7 of 19

No. : MH184083

### **3.0 Test Results**

#### **3.1 Emission**

##### **3.1.1 Radiated Emissions**

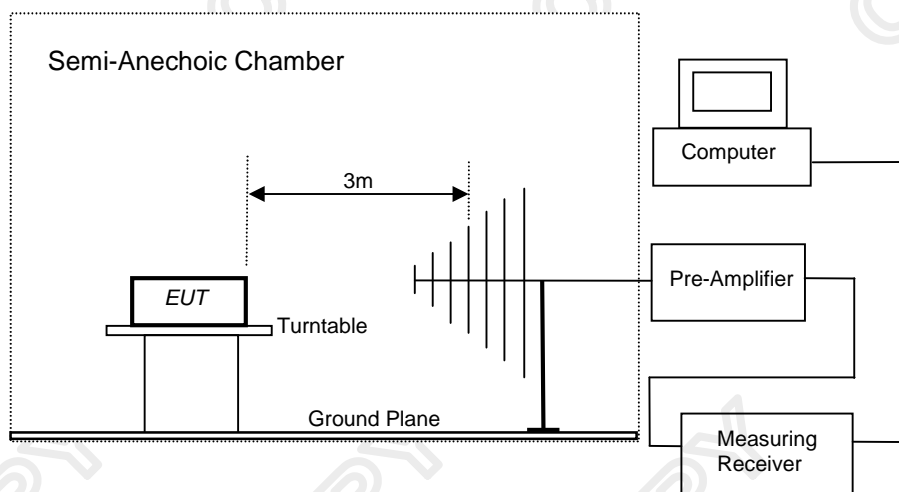
Test Requirement: FCC 47CFR 15.249  
Test Method: ANSI C63.4:2003  
Test Date: 2010-06-03  
Mode of Operation: Tx mode

#### **Test Method:**

The sample was placed 0.8m above the ground plane of semi-anechoic Chamber\*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

\* Semi-anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

#### **Test Setup:**



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## STC Test Report

Date : 2010-06-07

Page 8 of 19

No. : MH184083

### Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

### Results of Tx mode: Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
2402.0	37.4	36.8	74.2	5,128.6	500,000	Vertical
* 4804.0	6.4	41.9	48.3	260.0	500	Vertical
7206.0	1.7	47.8	49.5	298.5	500	Vertical
7206.0	No Emission Detected				500	Vertical
9608.0					500	Vertical
* 12010.0					500	Vertical
14412.0					500	Vertical
16814.0					500	Vertical
* 19216.0					500	Vertical
21618.0					500	Vertical

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
+ 2402.0	29.1	36.8	65.9	1,972.4	50,000	Vertical

### Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

\*: Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

+: Adjusted by Duty Cycle = -8.3dB

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB  
1GHz to 18GHz 5.1dB

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## STC Test Report

Date : 2010-06-07

Page 9 of 19

No. : MH184083

### Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

### Results of Tx mode: Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
2441.8	35.7	36.9	72.6	4,265.8	500,000	Vertical
* 4883.6	6.7	41.8	48.5	266.1	500	Vertical
7325.4	1.3	48.0	49.3	291.7	500	Vertical
9767.2	No Emission Detected				500	Vertical
* 12209.0					500	Vertical
14650.8					500	Vertical
17092.6					500	Vertical
* 19534.4					500	Vertical
21976.2					500	Vertical
24418.0					500	Vertical

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
+ 2441.8	27.4	36.9	64.3	1,640.6	50,000	Vertical

### Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

\*: Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

+: Adjusted by Duty Cycle = -8.3dB

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB  
1GHz to 18GHz 5.1dB

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## STC Test Report

Date : 2010-06-07

Page 10 of 19

No. : MH184083

### Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

### Results of Tx mode: Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
2478.0	36.9	37.2	74.1	5,069.9	500,000	Vertical
* 4856.0	5.9	41.8	47.7	242.7	500	Vertical
7434.0	1.5	48.2	49.7	305.5	500	Vertical
9912.0	No Emission Detected				500	Vertical
* 12390.0					500	Vertical
14868.0					500	Vertical
17346.0					500	Vertical
* 19824.0					500	Vertical
22302.0					500	Vertical
24780.0					500	Vertical

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
+ 2478.0	28.6	37.2	65.8	1,949.8	50,000	Vertical

### Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

\*: Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

+: Adjusted by Duty Cycle = -8.3dB

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB  
1GHz to 18GHz 5.1dB

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Date : 2010-06-07

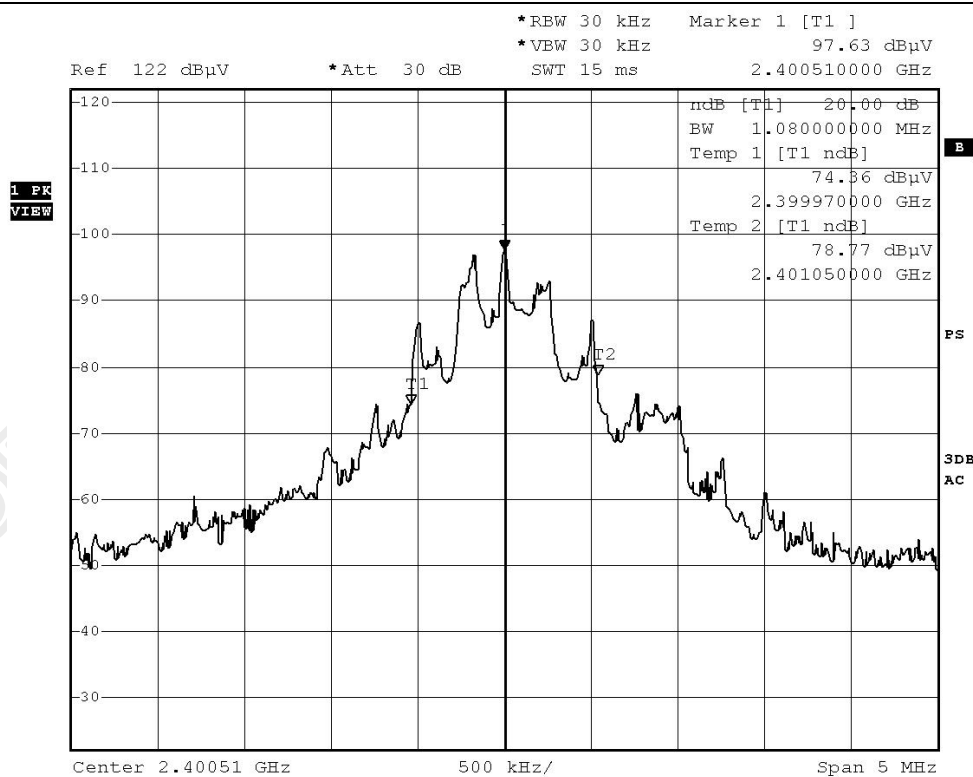
Page 11 of 19

No. : MH184083

### Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [MHz]
2400	1.08

### 20dB Bandwidth of Fundamental Emission



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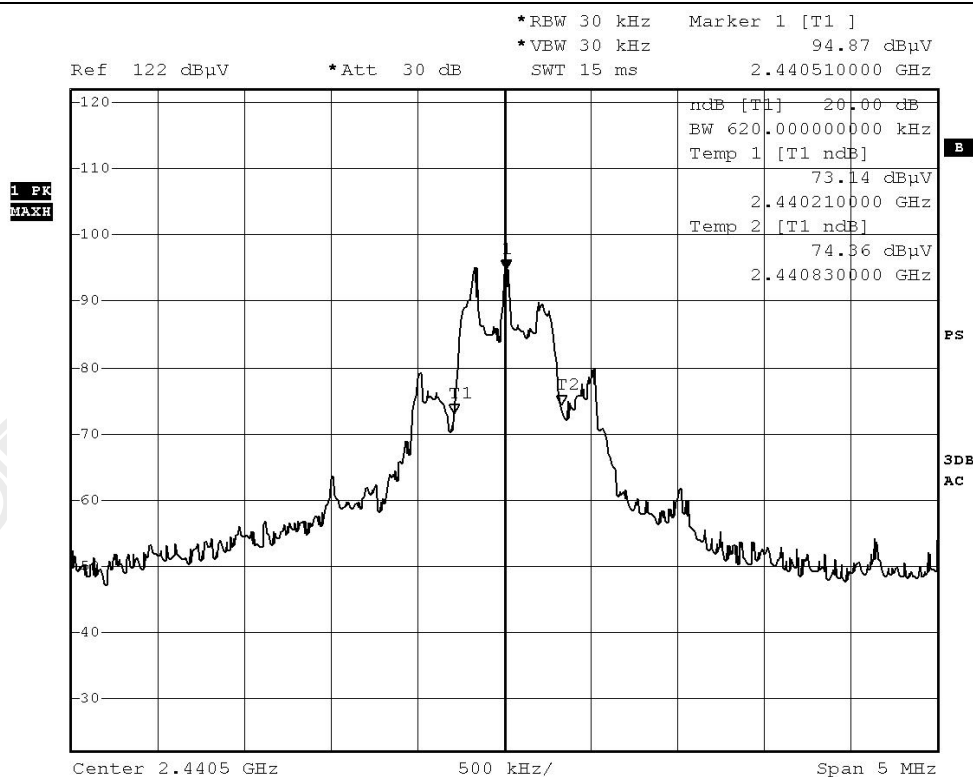
Page 12 of 19

No. : MH184083

### Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [MHz]
2440	0.62

### 20dB Bandwidth of Fundamental Emission



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Date : 2010-06-07

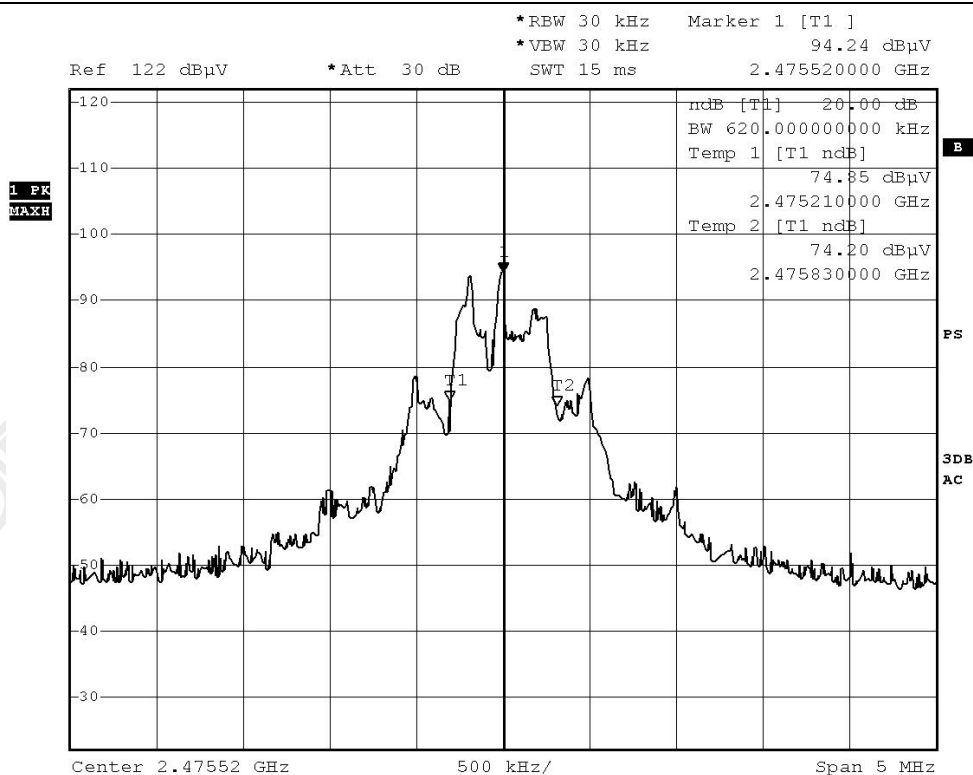
Page 13 of 19

No. : MH184083

### Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [MHz]
2475	0.62

### 20dB Bandwidth of Fundamental Emission



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## **STC Test Report**

Date : 2010-06-07

Page 14 of 19

No. : MH184083

### **Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:**

Frequency Range [MHz]	Quasi-Peak Limits [ $\mu$ V/m]
30-88	100
88-216	150
216-960	200
Above 960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

### **Results of Tx mode: PASS**

Emissions detected are more than 20 dB below the FCC Limits

#### Remarks:

No additional spurious emissions found between lowest internal used/g enerated frequency and 30 MHz

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB  
1GHz to 18GHz 5.1dB

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## **STC Test Report**

Date : 2010-06-07

Page 15 of 19

No. : MH184083

### **Appendix A**

#### **List of Measurement Equipment**

##### **Radiated Emission**

<b>EQP NO.</b>	<b>DESCRIPTION</b>	<b>MANUFACTURER</b>	<b>MODEL NO.</b>	<b>SERIAL NO.</b>	<b>LAST CAL</b>	<b>DUE CAL</b>
EM062	HORN ANTENNA	EMCO	3117	0075933	2008/11/06	2010/11/06
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM216	MINI MAST SYSTEM	EMCO	2075	00026842	N/A	N/A
EM217	ELECTRIC POWERED TURNABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-Linggren	FACT-3	--	2009/05/02	2012/05/02
EM174	BICONILOG ANTENNA	EMCO	3142B	00029071	2010/01/24	2012/01/24
EM229	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB40	100248	2009/09/27	2010/09/27
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	2009/07/26	2011/07/26

#### **Remarks:-**

CM Corrective Maintenance

N/A Not Applicable

TBD To Be Determined

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## STC Test Report

Date : 2010-06-07

Page 16 of 19

No. : MH184083

### Appendix B

#### Duty Cycle Correction During 100msec

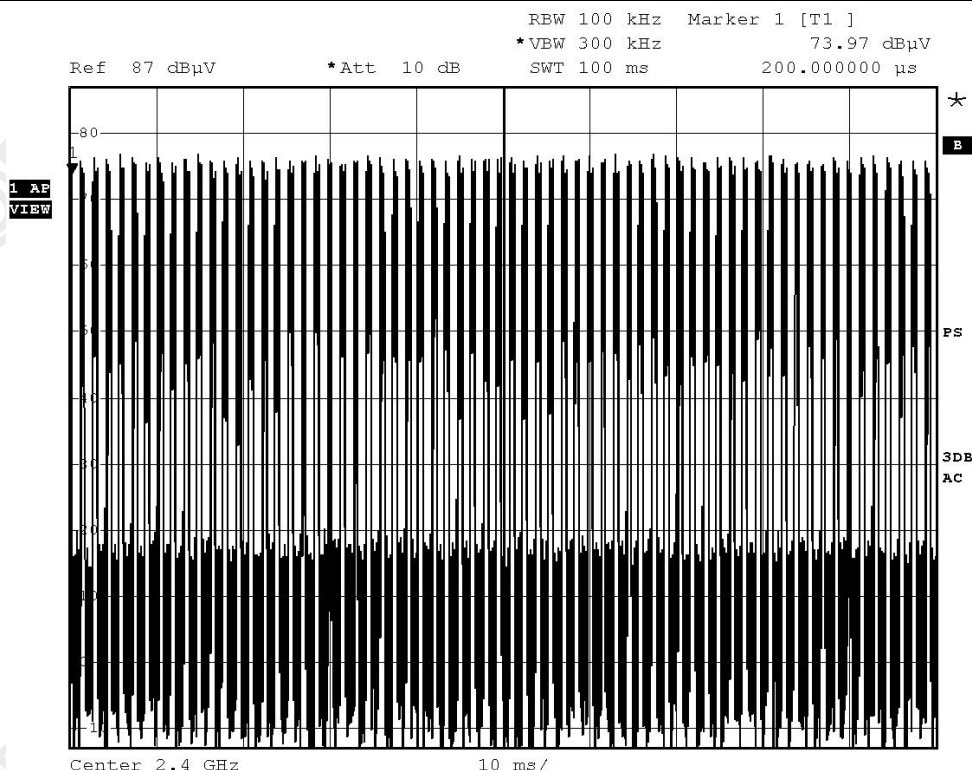
Each sample unit sends a different series of characters, but each pulse period (100msec) never exceeds a series of 67 sole (0.576msec) pulses. Assuming any combination of short and long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered  $67 \times 0.576 \text{ msec}$  per 100msec = 38.6% duty cycle. Figure A through B show the characteristics of the pulse train for one of these functions.

Remarks:

Duty Cycle Correction =  $20\text{Log}(0.386) = -8.3\text{dB}$

The following figures [Figure A to Figure B] showed the characteristics of the pulse train for one of these functions.

Figure A [Pulse Train]



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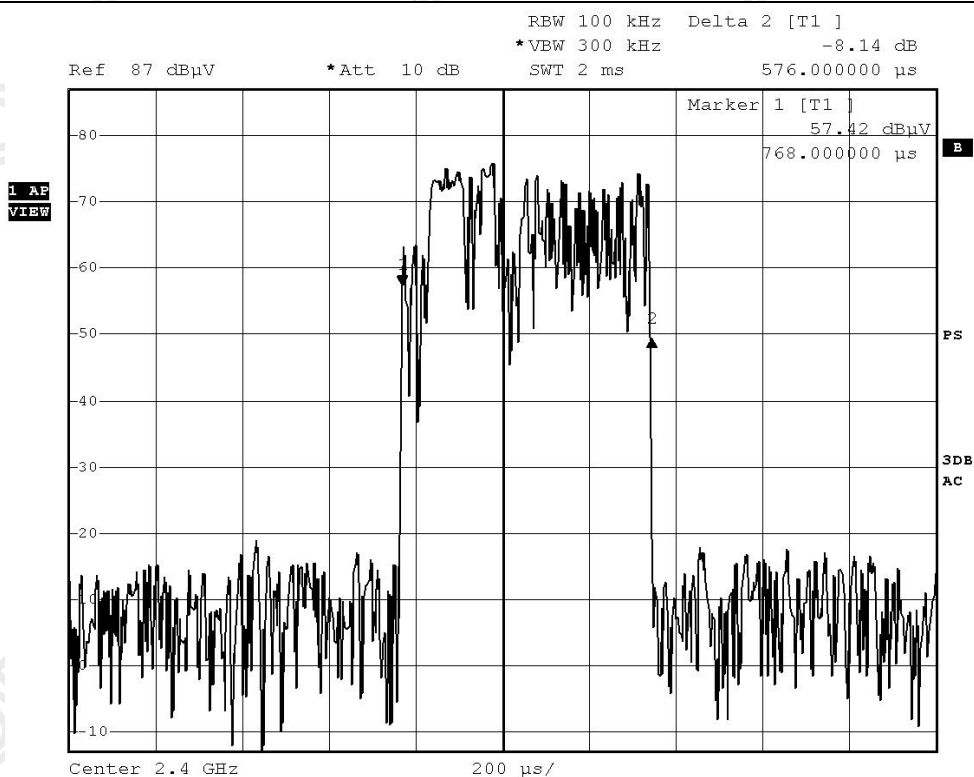
## STC Test Report

Date : 2010-06-07

Page 17 of 19

No. : MH184083

Figure B [Sole Pulse]



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## **STC Test Report**

Date : 2010-06-07

Page 18 of 19

No. : MH184083

### **Appendix C**

#### **Photographs of EUT**

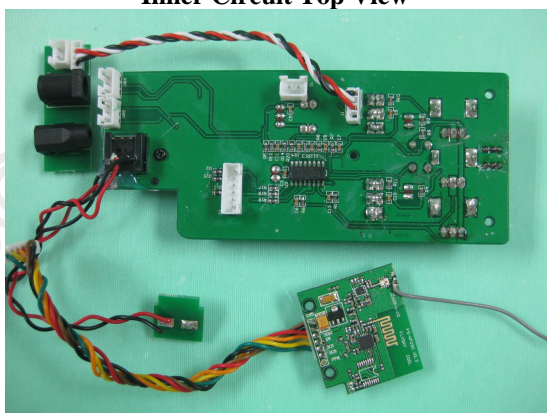
**Front View of the product**



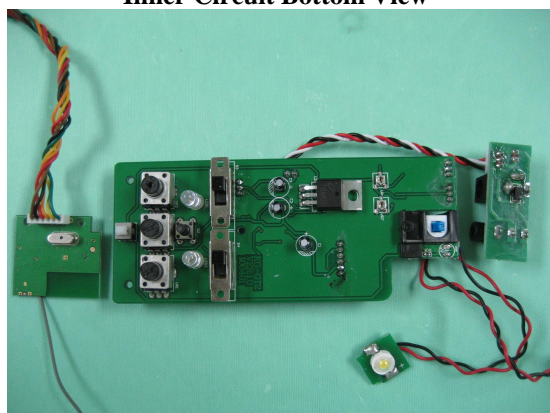
**Rear View of the product**



**Inner Circuit Top View**



**Inner Circuit Bottom View**



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## **STC Test Report**

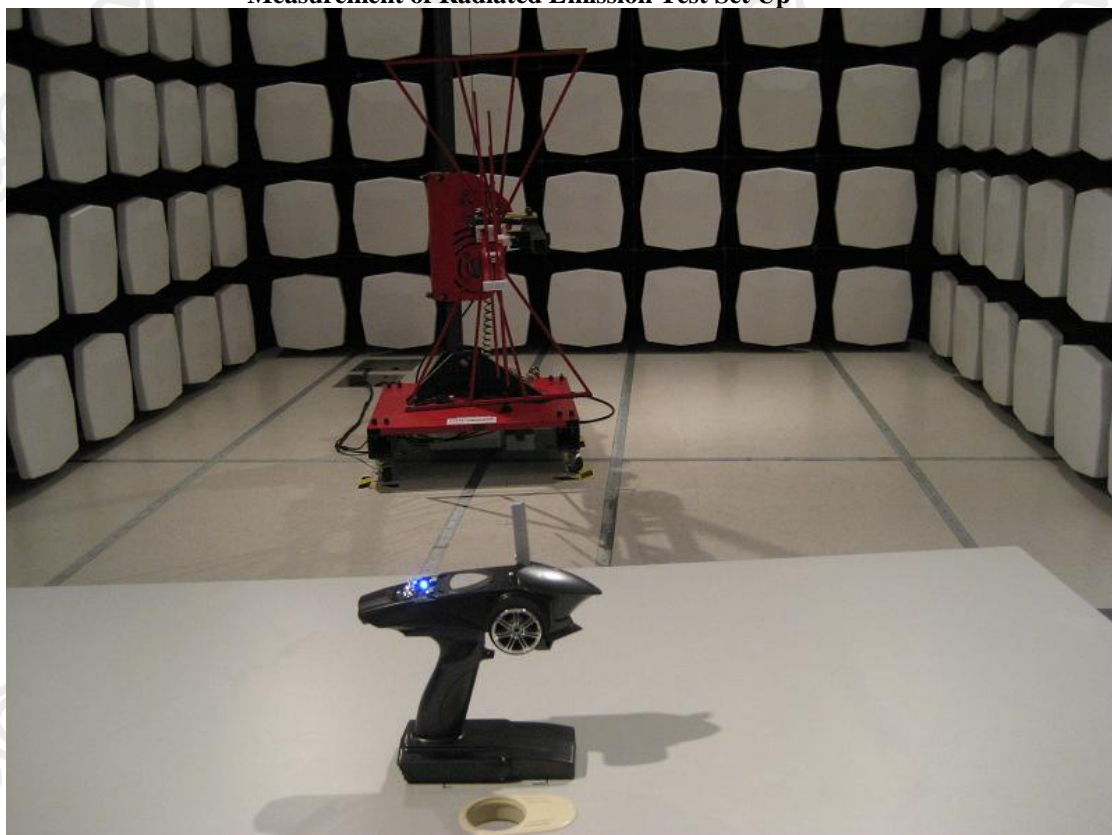
Date : 2010-06-07

Page 19 of 19

No. : MH184083

### **Photographs of EUT**

**Measurement of Radiated Emission Test Set Up**



**\*\*\*\*\* End of Test Report \*\*\*\*\***

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