

Firefly  
Radio  
Review  
CAL  
CQA  
SIN  
TECH  
CUL  
T



ISO/IEC17025 Accredited Lab.

Report No: FCC 1206192-02

File reference No: 2012-07-17

Applicant: Firefly Global

Product: USB Receiver

Brand Name: Firefly

Model No: ES150

Test Standards: FCC Part 15 Subpart B: 2009

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of electromagnetic compatibility

Approved By

A handwritten signature in black ink that appears to read 'Terry Tong'.

Terry Tong

Manager

Dated: July 17, 2012

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD**

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. Chegongmiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996



## **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

### **FCC-Registration No.: 899988**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

### **IC- Registration No.: IC5205A-01**

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

### **VCCI- Registration No.: R-3015 and C-3332**

The EMC Laboratory has been registered and fully described in a report filed with the (VCCI) Voluntary Control Council for Interference. The acceptance letter from the VCCI is maintained in our files. Registration IC No.: R-3015 and C-3332

## Test Report Conclusion

### Content

<b>1.0</b>	<b>General Details</b>	4
1.1	Test Lab Details	4
1.2	Applicant Details	4
1.3	Description of EUT	4
1.4	Test Uncertainty	4
1.5	Submitted Sample	4
1.6	Test Duration	4
<b>2.0</b>	<b>List of Measurement Equipment</b>	5
2.1	Conducted Emission Test	5
2.2	Radiated electromagnetic disturbance test	5
2.3	Auxiliary Equipment	5
2.4	I/O Cable	5
<b>3.0</b>	<b>Technical Details</b>	6
3.1	Investigations Requested	6
3.2	Test Standards	6
<b>4.0</b>	<b>Power line Conducted Emission Test</b>	7
<b>5.0</b>	<b>Radiated Disturbance Test</b>	10
<b>6.0</b>	<b>FCC Label</b>	15
<b>7.0</b>	<b>Photo of testing...</b>	16

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## 1.0 General Details

### 1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD  
Address: East 5/Block 4, Anhua Industrial Zone, No.8,Tairan Rd. CheGongMiao, FuTian District, Shenzhen, CHINA.  
Telephone: (755) 83448688  
Fax: (755) 83442996

### 1.2 Applicant Details

Applicant: Firefly Global  
Address: 464 Common Street , #281, Belmont, MA 02478, U.S.A.  
Telephone: +1.617.489.2615  
Fax: +1.617.489.2615

### 1.3 Description of EUT

Product: USB Receiver  
Manufacturer: Infoxelle Co., Ltd.  
Address: 5B.Unit 2, Building 40, Four Seasons Garden, 68 Minkang Rd., Longhua Town, Bao'an District, Shenzhen, Guangdong Province, P.R.C  
Brand Name: Firefly  
Model Number: ES150  
Additional Model Number: N/A  
Rating: DC5V powered by PC

### 1.4 Submitted Sample: 1 Sample

### 1.5 Test Duration: 2012-06-30 to 2012-07-17

### 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB  
Radiated Emissions Uncertainty =4.7dB

### 1.7 Test Engineer

The sample tested by

A handwritten signature in black ink that reads 'Leo Lau'.

Print Name: Leo Lau

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## 2.0 List of Measurement Equipment

### 2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESH3	860905/006	RS	2012.04.21	1Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2012.04.21	1Year
PULSE LIMITER	ESH3-Z2	100281	RS	2012.04.21	1Year
LISN	ESH3-Z5	100294	RS	2012.04.21	1Year
LISN	ESH3-Z5	100253	RS	2012.04.21	1Year

### 2.2 Radiated electromagnetic disturbance test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESVD	100008	RS	2012.04.21	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer	8595E	3441A00893	HP	2012.04.21	1Year
Amplifier	8447D	2727A05017	HP	2012.04.21	1Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2012.04.21	1Year
ESPI Test Receiver	ESI26	838786/013	RS	2012-04-21	1Year
Spectrum	FSP40	1164.4391.26	RS	2012-05-16	1Year
Horn Antenna	BBHA 9170	BBHA9170265	Schwarebeck	2012-04-21	1Year
Horn Antenna	BBHA 9120D	9120D-631	Schwarebeck	2012-04-21	1Year

### 2.3 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Cable	FCC DOC/ID
Monitor	P2450	--	SAMSUNG	Data cable of 1.5m length	FCC DOC
PC	R400	--	IBM	--	FCC ID
Mouse	M-F105	--	L.SEletron	Data cable of 1.2m length	FCC DOC
Keyboard	KB-0225	--	IBM	--	FCC DOC
Earphone	--	--	--	Data cable of 1.5m length	--

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### 3.0 Technical Details

#### 3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

#### 3.2 Test Standards

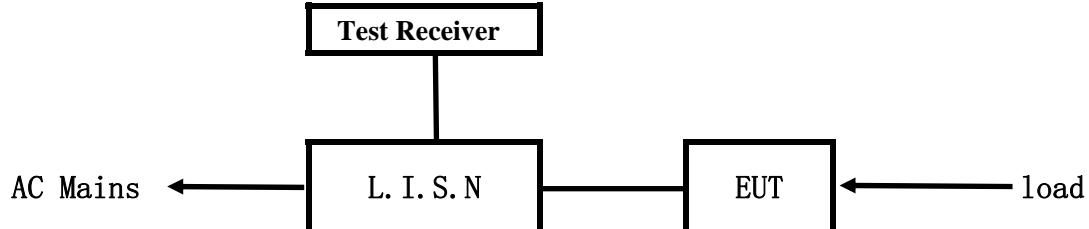
**FCC Part 15 Subpart B: 2009**

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#### 4.0 Conducted Power line Test

##### 4.1 Schematics of the test



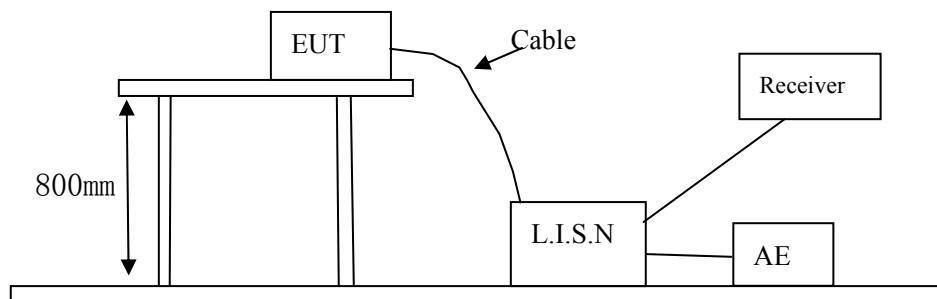
EUT: Equipment Under Test

##### 4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 -2003. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



##### 4.3 Power line conducted Emission Limit

Frequency(MHz)	Class A Limits dB(μV)		Class B Limits dB(μV)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.00	66.00	66.00~56.00*	56.00~46.00*
0.50 ~ 5.00	73.00	60.00	56.00	46.00
5.00 ~ 30.00	73.00	60.00	60.00	50.00

Notes: 1. \*decreasing linearly with logarithm of frequency.  
2. The tighter limit shall apply at the transition frequencies

##### 4.4 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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**A: Conducted Emission on Live Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

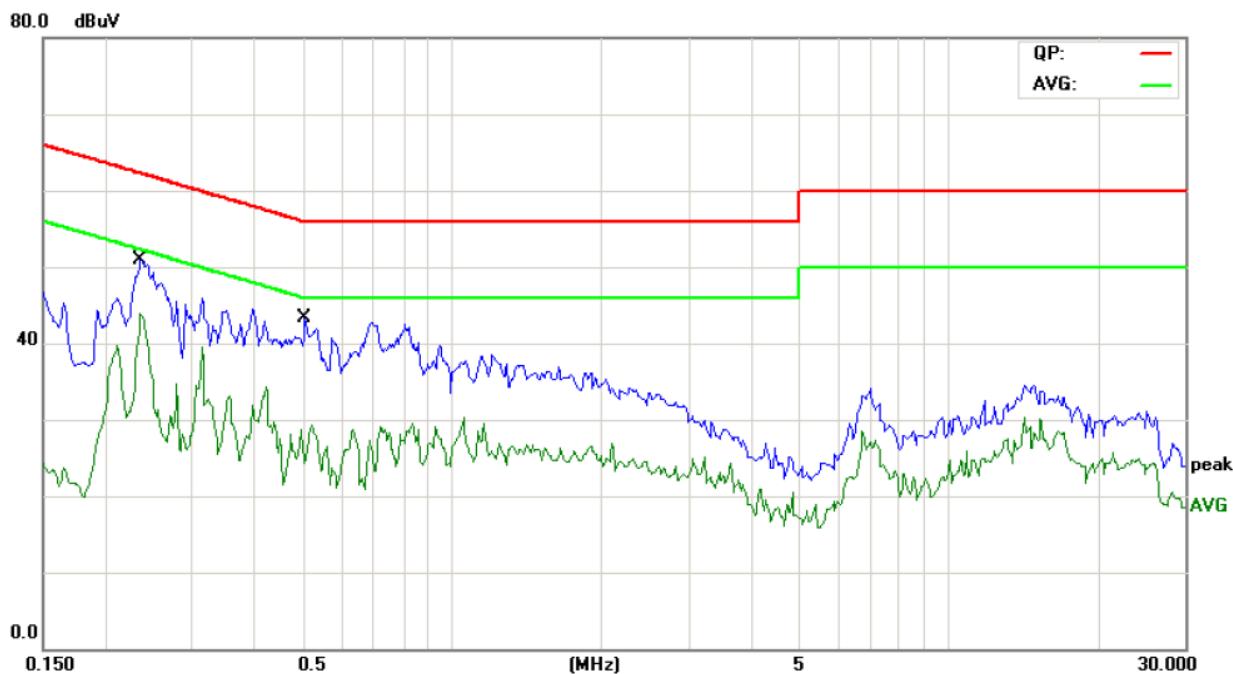
Temperature: 26°C      Humidity: 65%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Connect to PC**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dB $\mu$ V)		Limit(dB $\mu$ V)	
		Quasi-peak	Average	Quasi-peak	Average
0.235	Live	48.86	30.96	62.24	52.24
0.505	Live	41.21	23.51	56.00	46.00

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**B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

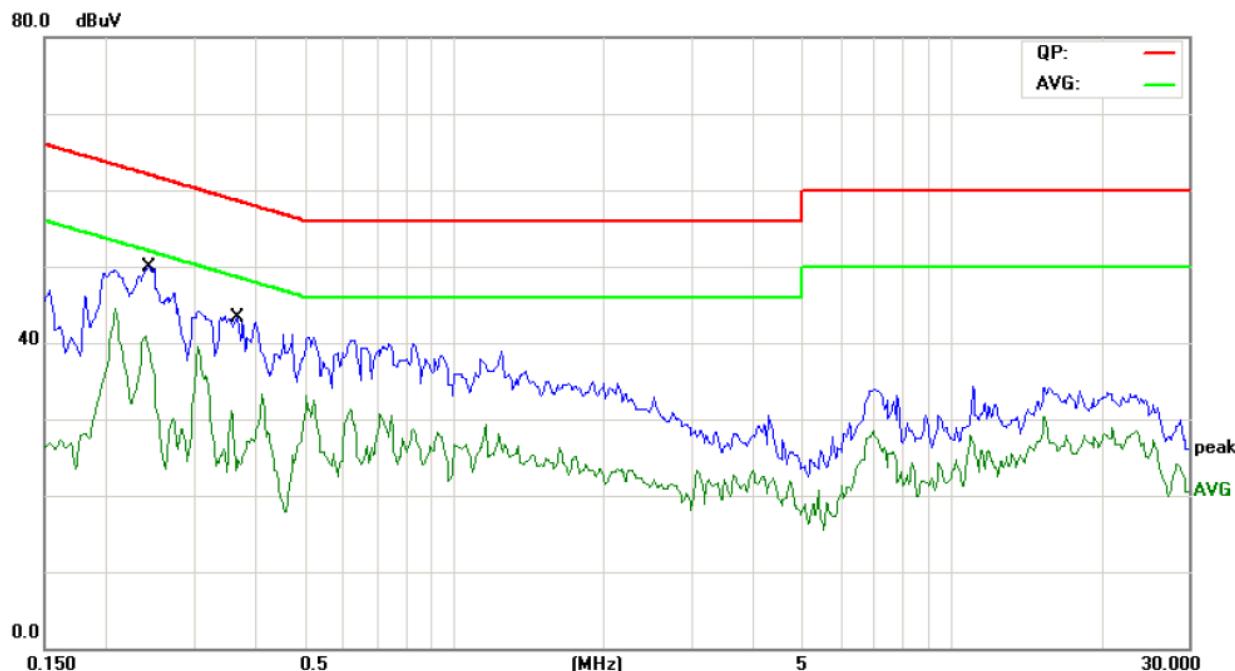
Temperature: 26°C      Humidity: 65%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Connect to PC**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBμV)		Limit(dBμV)	
		Quasi-peak	Average	Quasi-peak	Average
0.243	Neutral	47.90	31.90	61.97	51.97
0.365	Neutral	41.22	27.72	58.61	48.61

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## 5.0 Radiated Disturbance Test

### 5.1 Schematics of the test

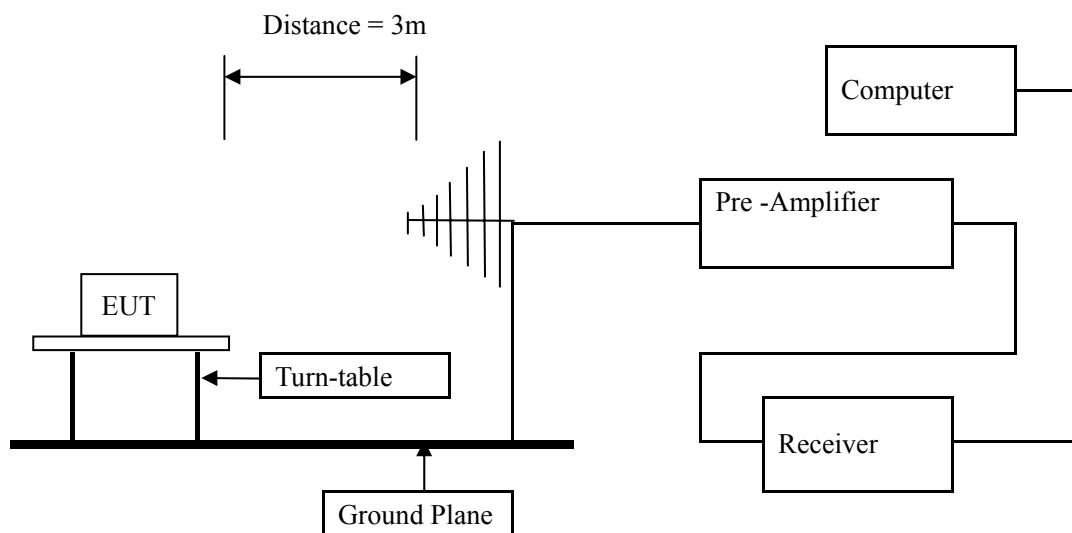


### 5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 -2003, The frequency spectrum from 30MHz to 1GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak 0values with a resolution bandwidth of 120KHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters.

Test Voltage: 120V~, 60Hz

#### Block diagram of Test setup



### 5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: The lower limit shall apply at the transition frequencies

### 5.4 Test result

The frequency spectrum from 30MHz to 18GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters.

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## A: Radiated Disturbance (30MHz----1000MHz)

### EUT Operating Environment

Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Connect to PC**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
255.491	31.70	H	46.00

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## B: Radiated Disturbance (30MHz----1000MHz)

### EUT Operating Environment

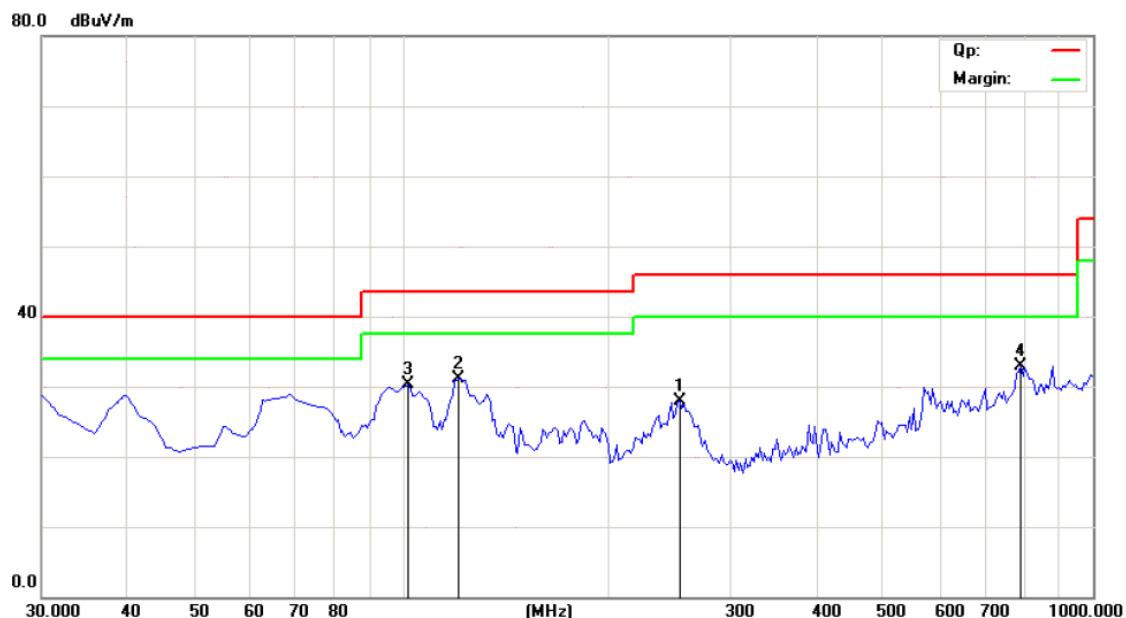
Temperature:25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

### EUT set Condition: Connect to PC

### Equipment Level: Class B

### Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
253.547	27.83	V	46.00
121.362	31.20	V	43.50
101.923	30.38	V	43.50
792.004	32.86	V	46.00

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### C: Radiated Disturbance (1000MHz----18000MHz)

#### EUT Operating Environment

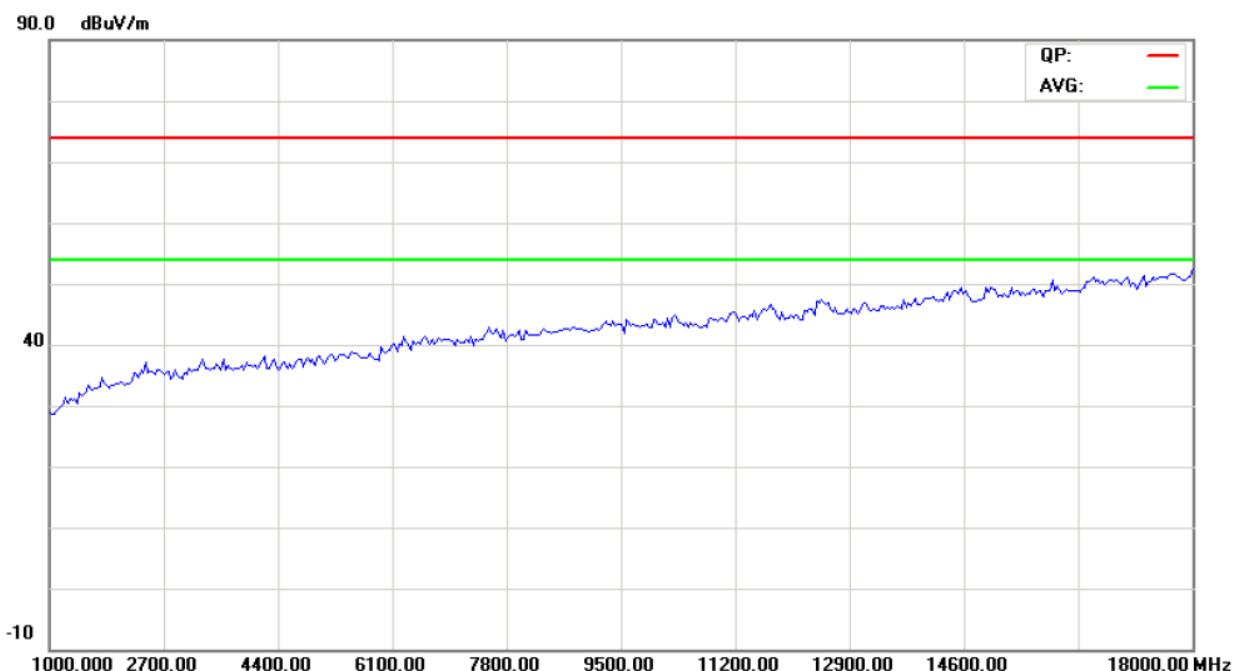
Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

#### EUT set Condition: Connect to PC

#### Equipment Level: Class B

#### Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
--	--	H	--

-The test data shows much less than the limit, no necessary take down the results.

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#### D: Radiated Disturbance (1000MHz----18000MHz)

##### EUT Operating Environment

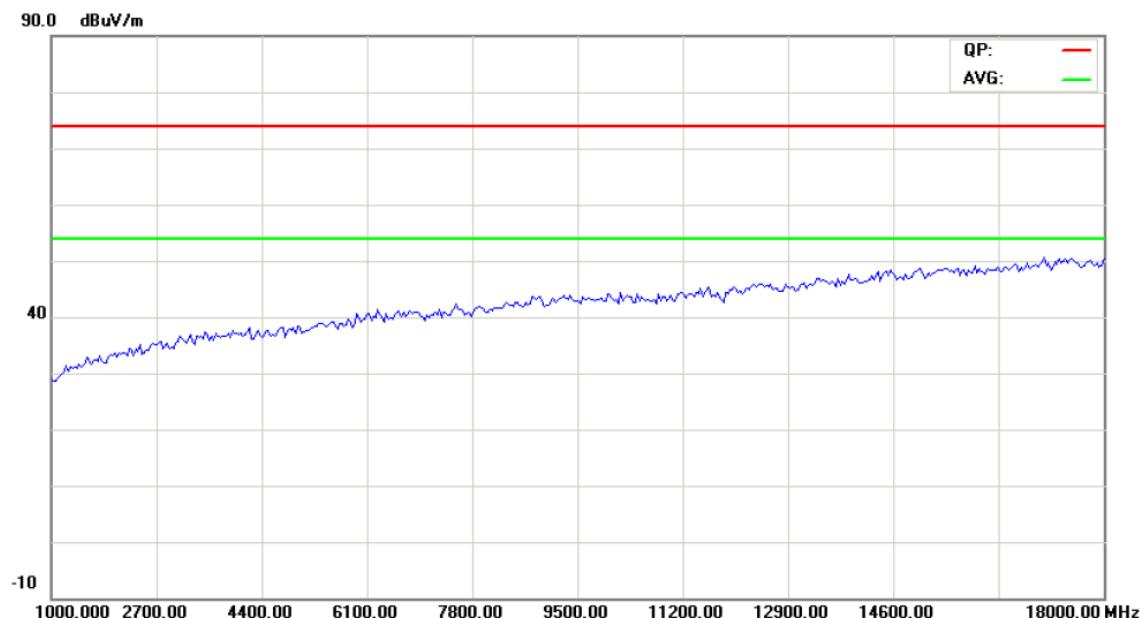
Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

##### EUT set Condition: Connect to PC

##### Equipment Level: Class B

##### Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
--	--	V	--

-The test data shows much less than the limit, no necessary take down the results.

**Note: for the radiated emissions above 18GHz, it was the floor noise.**

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## 6.0 FCC Label

**This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.**

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

**Mark Location: On the product body**

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7.0 Photo of testing

7.1 Conducted test View--



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7.2 Radiated emission test view--



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7.3 Photo for the EUT

Front View



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Interior View



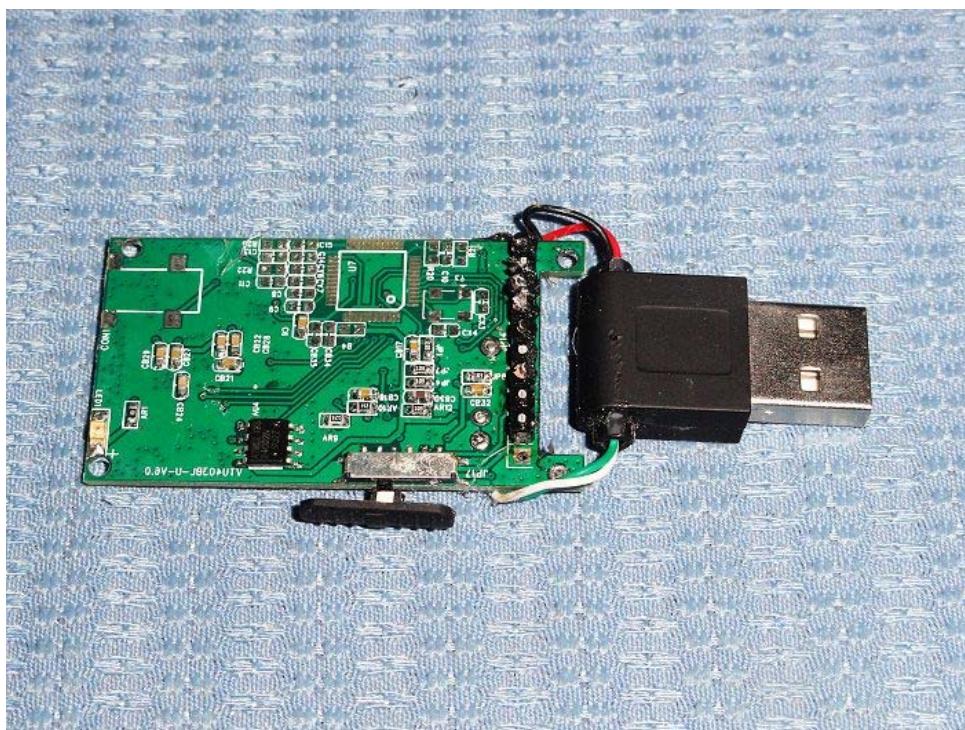
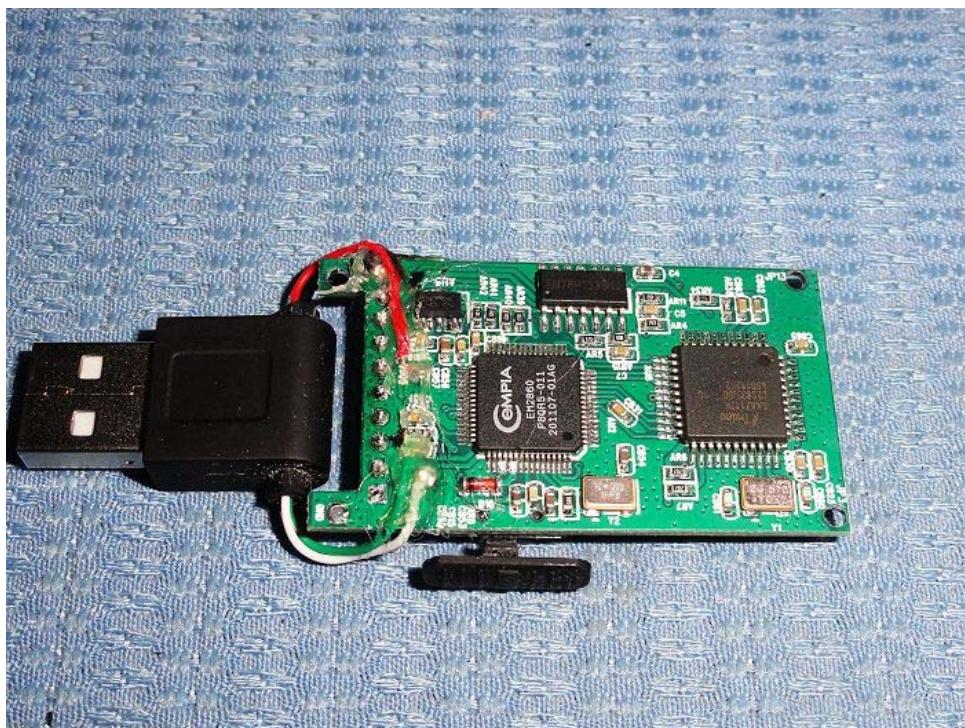
"The report refers only to the sample tested and does not apply to the bulk production.

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Interior View



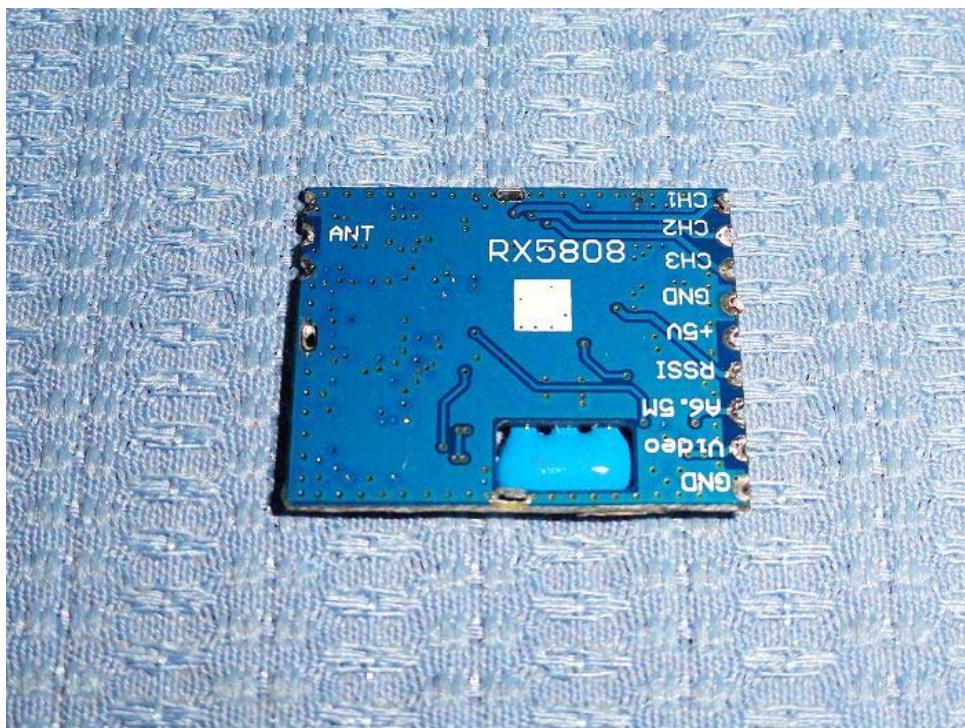
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Interior View



**-End of the report-**

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