



ISO/IEC17025 Accredited Lab.

Report No: FCC1206192-01

File reference No: 2012-07-17

Applicant: Firefly Global

Product: Digital Microscope

Model No: DE550, DE551, GT450 GT460, GT470, GT480, GT550, GT600, GT620, GT630, GT750, DE350, DE1250, RW140 and RW160

Brand Name: Firefly

Test Standards: FCC Part 15 Subpart C, Paragraph 15.249

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility

Approved By

*Jack Chung*

Jack Chung

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.

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## 1.0 General Details

### 1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD  
Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District, Shenzhen,CHINA.  
Telephone: (755) 83448688  
Fax: (755) 83442996  
Site on File with the Federal Communications Commission – United States  
Registration Number: 899988  
For 3m & 10 m OATS  
Site Listed with Industry Canada of Ottawa, Canada  
Registration Number: IC: 5205A-01  
For 3m & 10 m OATS

### 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: Digital Microscope  
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: DE550  
Additional Model Name DE551, GT450 GT460, GT470, GT480, GT550, GT600, GT620, GT630, GT750, DE350, DE1250, RW140 and RW160  
Additional Trade Name N/A  
Rating: Input: 3.7V, 0.35A, 1W  
Number of Channels: 4  
Modulation Type: FM  
Operation Frequency 5.866GHz, 5.847GHz, 5.828 GHz, 5.790 GHz  
Antenna Designation Omni antenna with gain 2.0dBi

### 1.4 Submitted Sample

4 Samples

### 1.5 Test Duration

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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

*Terry Tang*

The sample tested by \_\_\_\_\_

Print Name: Terry Tang

2.0	Test Equipments				
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2012-04-21	2013-04-20
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2012-04-21	2013-04-20
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2012-04-21	2013-04-20
Ultra Broadband ANT	Schwarebeck	VULB9163	9163/340	2012-04-21	2013-04-20
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2012-04-21	2013-04-20
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2012-04-21	2013-04-20
Power meter	Anritsu	ML2487A	6K00003613	2012-04-21	2013-04-20
Power sensor	Anritsu	MA2491A	32263	2012-04-21	2013-04-20
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2012-04-21	2013-04-20
Spectrum	ROHDE&SCHWARZ	FSP40	1164.4391.26	2012-05-16	2013-05-14
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2012-04-21	2013-04-20
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2012-04-21	2013-04-20

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### 3.0 Technical Details

#### 3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	PASS	Complies

#### 3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249

#### 4.0 EUT Modification

No modification by Shenzhen Timeway Technology Consulting Co., Ltd

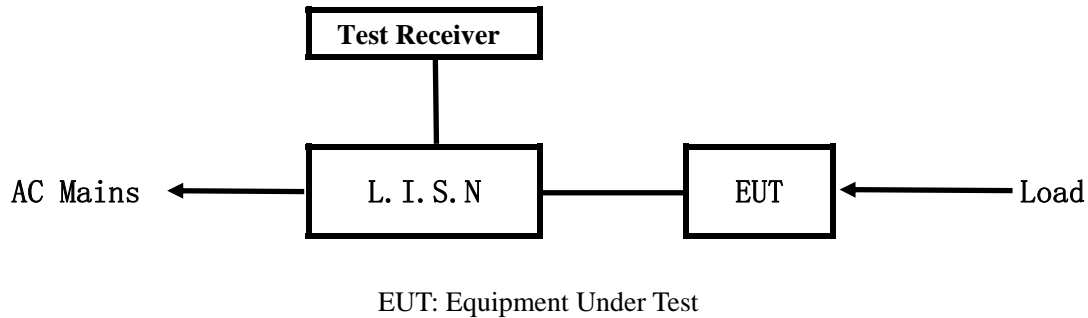
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## 5. Power Line Conducted Emission Test

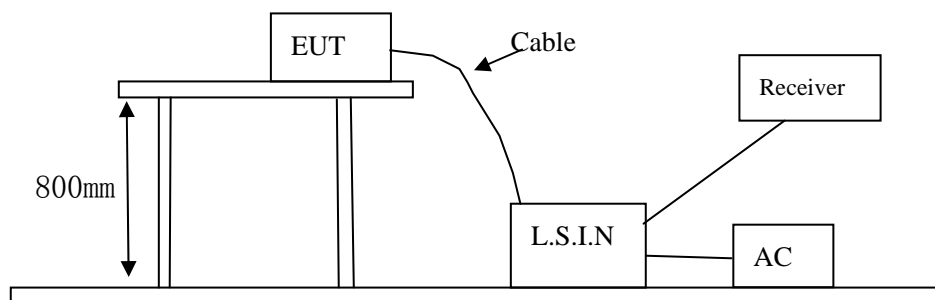
### 5.1 Schematics of the test



### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Block diagram of Test setup



### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

One channels are provided to the EUT

#### A. EUT

Device	Manufacturer	Model	FCC ID
Digital Microscope	Infoxelle Co., Ltd.	DE550, DE551, GT450 GT460, GT470, GT480, GT550, GT600, GT620, GT630, GT750, DE350, DE1250, RW140 and RW160	OXU5800T

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
Notebook	SONY	VGN-SZ412N-B	FCC ID	--

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency(MHz)	Class A Limits (dBμV)		Class B Limits (dBμV)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

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

5.6 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**

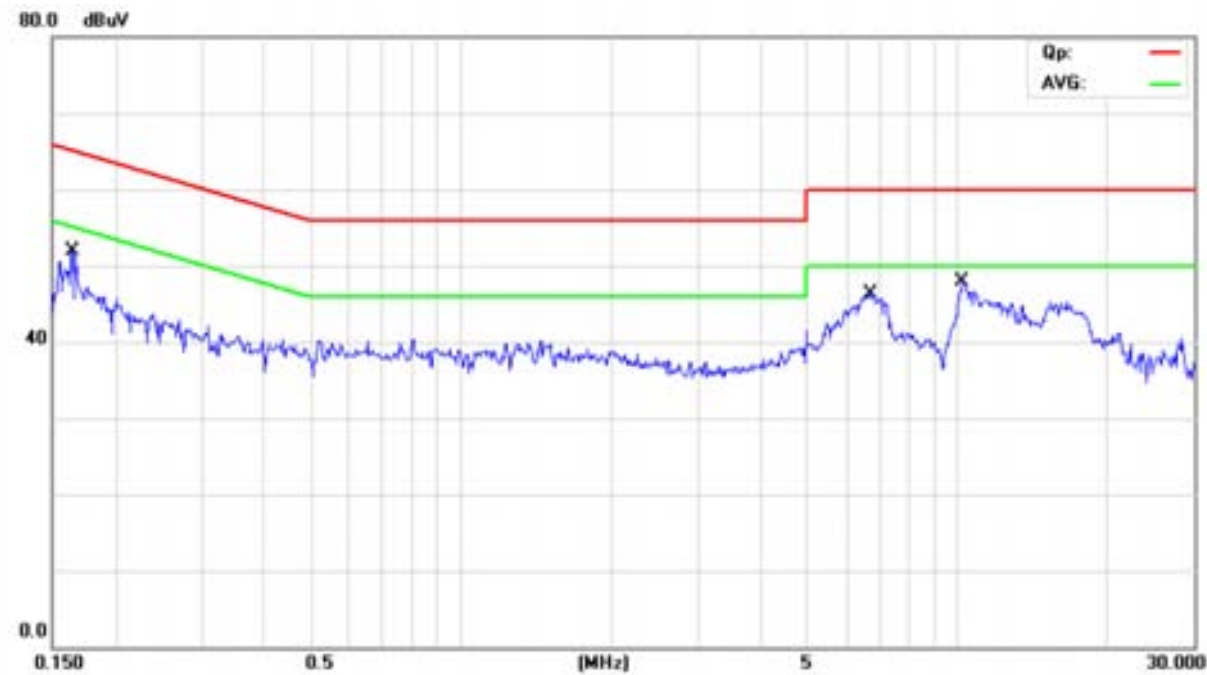
Temperature: 26℃      Humidity: 65%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Normal Operation**

**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
0.164	Live	48.91	32.51	65.22	55.22
6.750	Live	44.27	29.97	60.00	50.00
10.250	Live	45.97	30.27	60.00	50.00

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

**EUT Operating Environment**

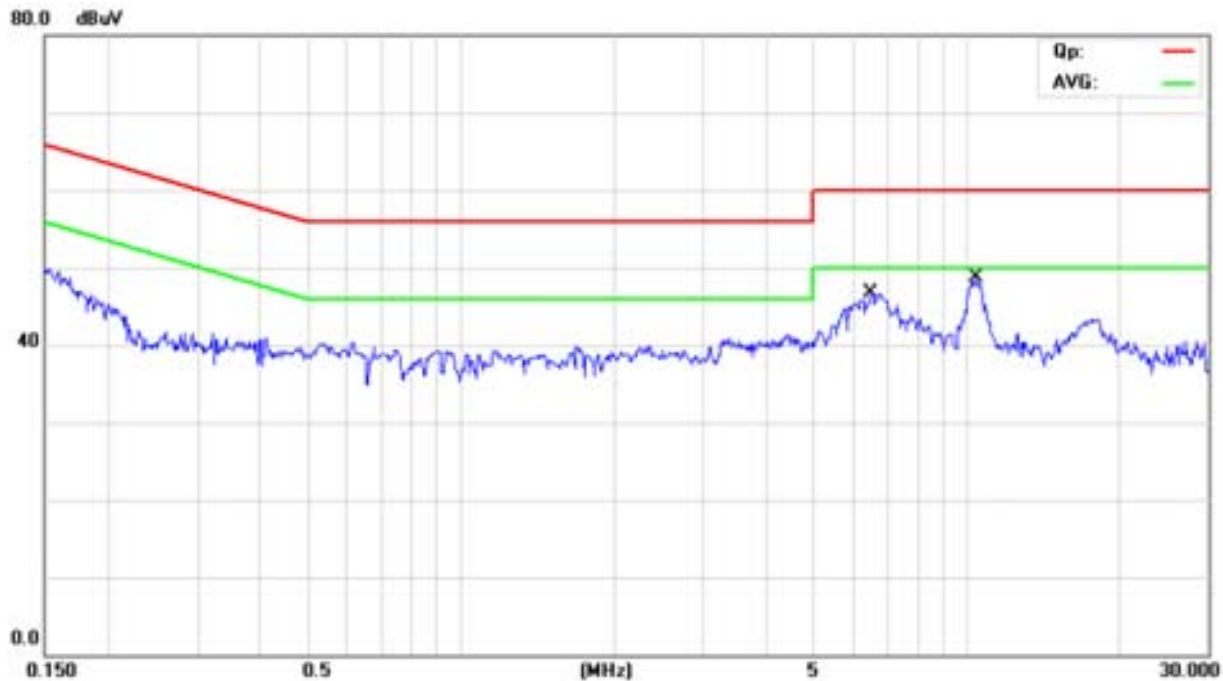
Temperature: 26℃      Humidity: 65%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Normal Operation**

**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
6.500	Neutral	43.62	29.22	60.00	50.00
10.437	Neutral	45.19	28.79	60.00	50.00

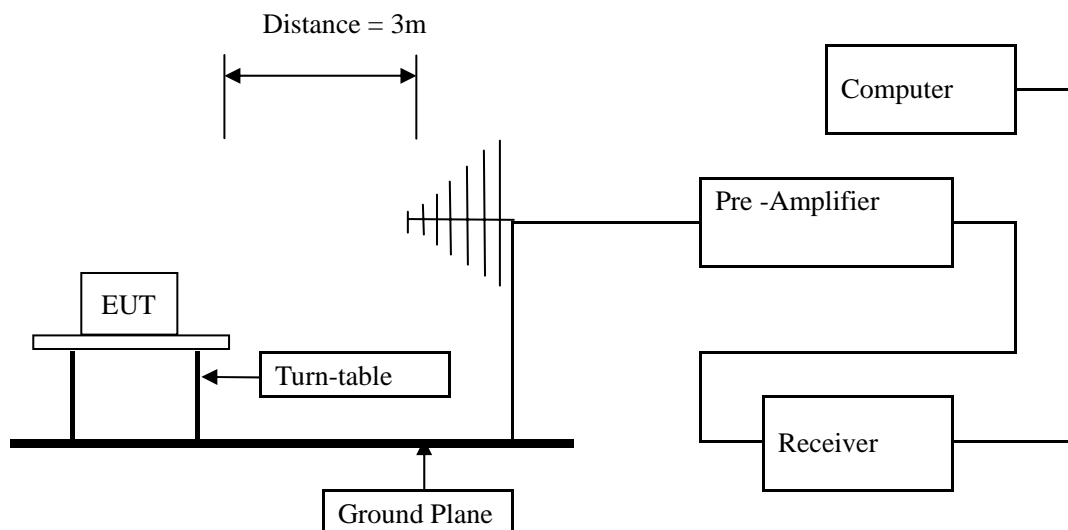
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## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization : Vertical polarization and Horizontal polarization.

#### Block diagram of Test setup



### 6.2 Configuration of The EUT

Same as section 5.3 of this report

### 6.3 EUT Operating Condition

Same as section 5.4 of this report.

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#### 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

##### A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)			Field Strength of Harmonics (3m)		
	mV/m	dBuV/m		uV/m	dBuV/m	
5725-5875	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

- Note:
1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
  2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
  3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

##### B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
  2. In the Above Table, the tighter limit applies at the band edges.
  3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
  4. New batteries were installed in the equipment under test for radiated emission testing.
  5. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz. As to 1G-40G, the final emission level got using PK and AV detector.
  6. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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## 6.5 Test result

### A Fundamental & Harmonics Radiated Emission Data

Product:	Digital Microscope	Test Mode:	keep transmitting
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	3.7VDC	Humidity:	56%
Test Result:	Pass		

Frequency (GHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
5.866	80.50 (PK)	H	114/94	-13.50
5.866	82.01 (PK)	V	114/94	-11.99
11.732	--	H/V	74/54	--
17.598	--	H/V	74/54	--
23.464	--	H/V	74/54	--
29.330	--	H/V	74/54	--
35.196	--	H/V	74/54	--

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Product:	Digital Microscope	Test Mode:	keep transmitting
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	3.7VDC	Humidity:	56%
Test Result:	Pass		

Frequency (GHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
5.847	82.16(PK)	H	114/94	-11.84
5.847	80.51(PK)	V	114/94	-13.49
11.694	--	H	74/54	--
17.541	--	V	74/54	--
23.388	--	H/V	74/54	--
29.235	--	H/V	74/54	--
35.082	--	H/V	74/54	--

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Product:	Digital Microscope	Test Mode:	keep transmitting
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	3.7VDC	Humidity:	56%
Test Result:	Pass		

Frequency (GHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
5.828	80.10(PK)	H	114/94	-13.90
5.828	81.65(PK)	V	114/94	-12.35
11.656	--	H/V	74/54	--
17.484	--	H/V	74/54	--
23.312	--	H/V	74/54	--
29.140	--	H/V	74/54	--
34.968	--	H/V	74/54	--

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Product:	Digital Microscope	Test Mode:	keep transmitting
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	3.7VDC	Humidity:	56%
Test Result:	Pass		

Frequency (GHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
5.790	80.55(PK)	H	114/94	-13.45
5.790	82.11(PK)	V	114/94	-11.89
11.580	--	H/V	74/54	--
17.370	--	H/V	74/54	--
23.160	--	H/V	74/54	--
28.950	--	H/V	74/54	--
34.740	--	H/V	74/54	--

- Note:
- (1) PK= Peak, AV= Average
  - (2) Emission Level = Reading Level + Antenna Factor + Cable Loss.
  - (3) Margin=Emission-Limits
  - (4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
  - (5) The measured PK value less than the AV limit.

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

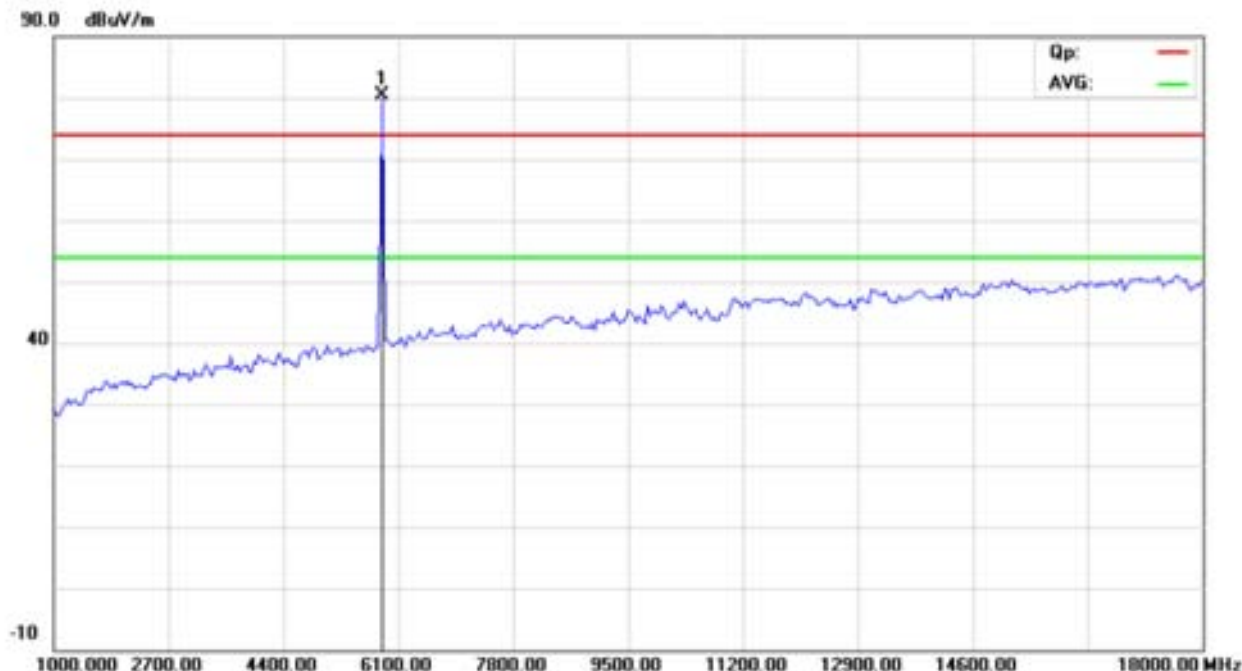
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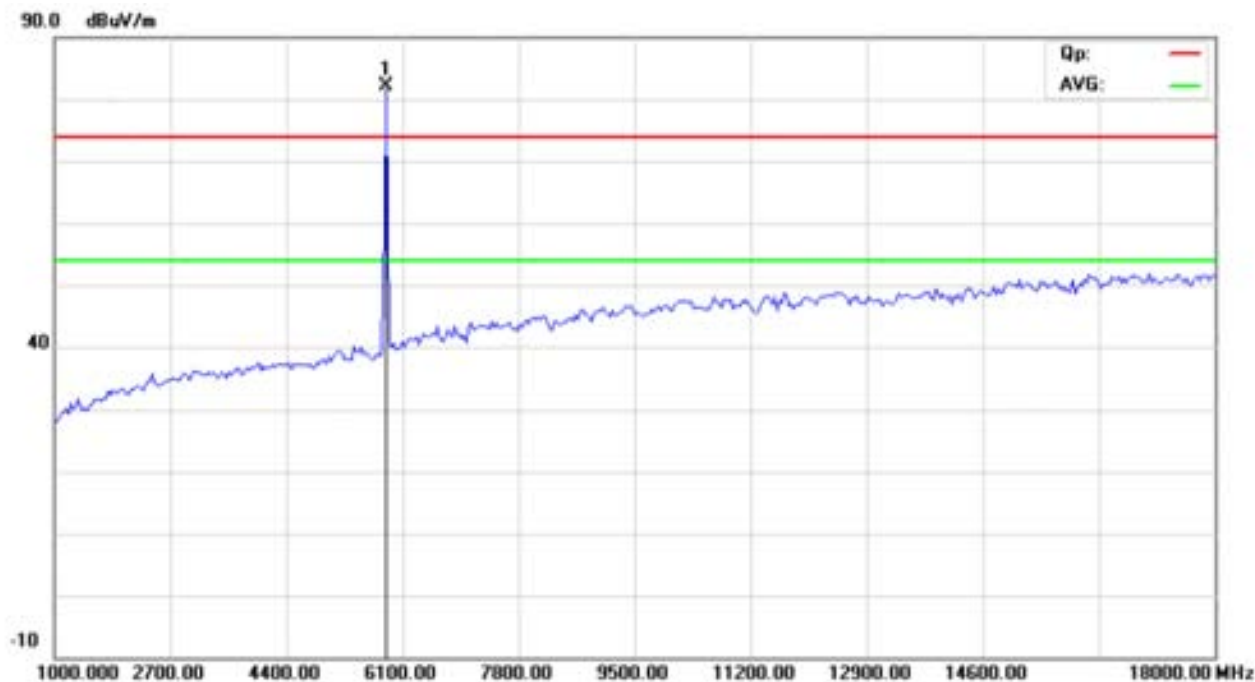


Please refer to the following test plots for details:

**Channel 5866MHz: Horizontal**



**Channel 5866MHz: Vertical**

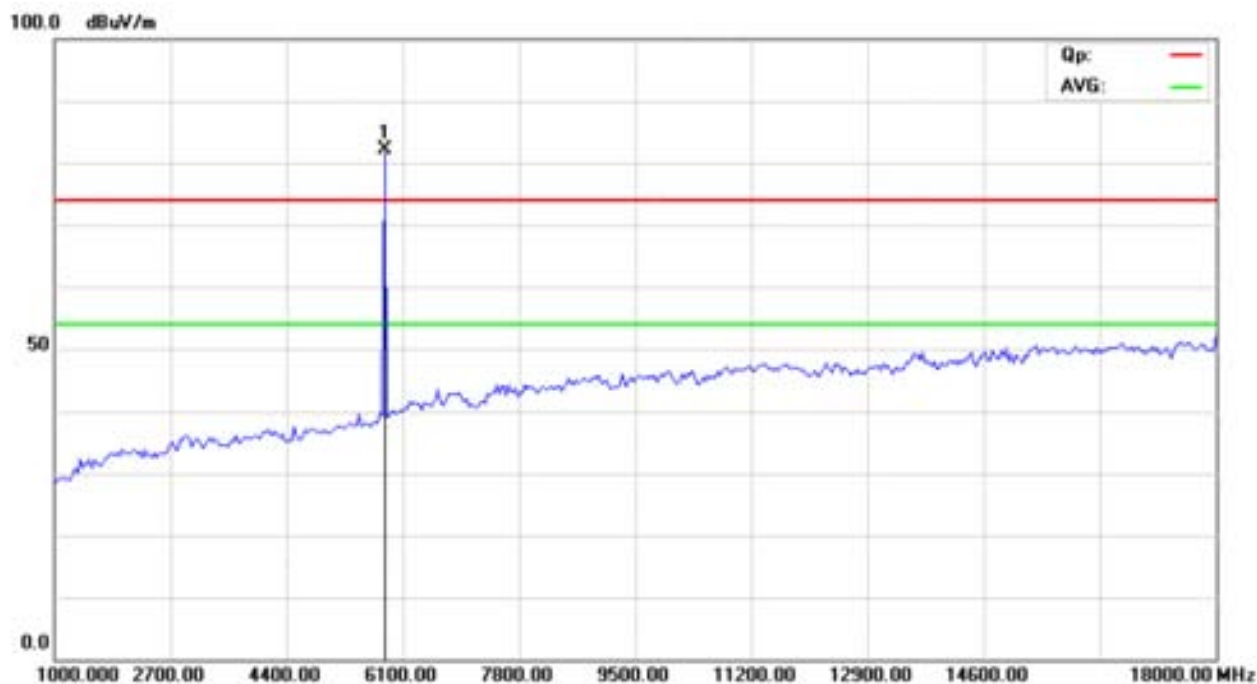


The report refers only to the sample tested and does not apply to the bulk.

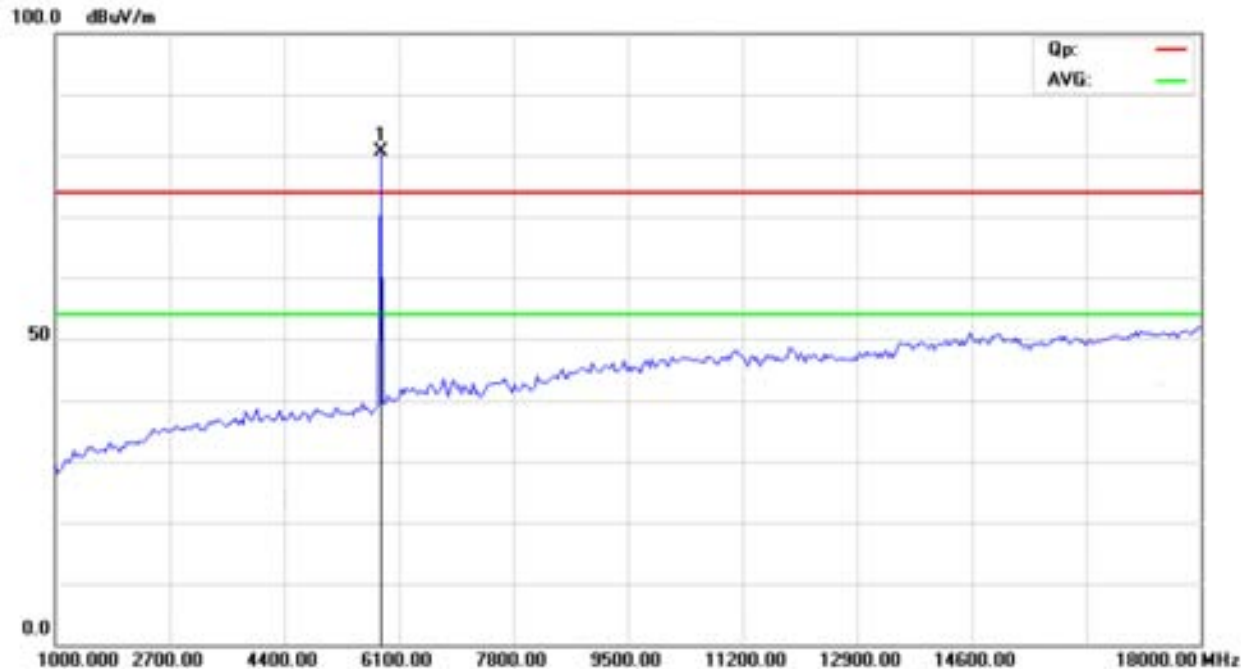
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### Channel 5847MHz : Horizontal



### Channel 5847MHz: Vertical

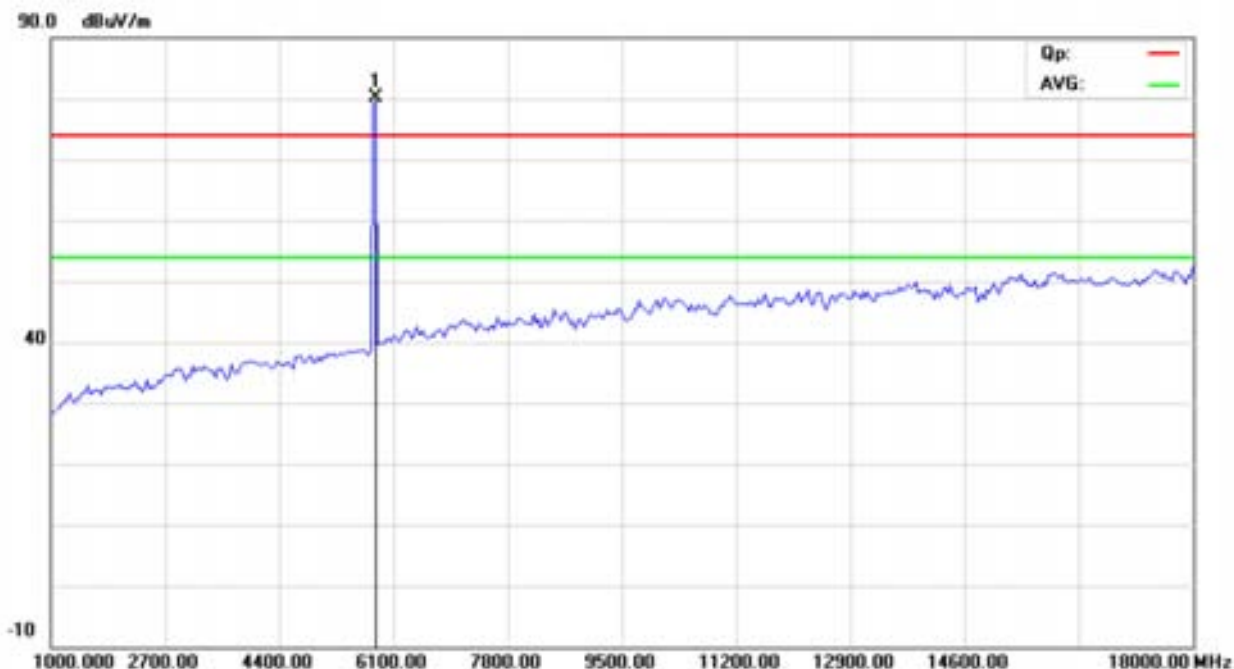


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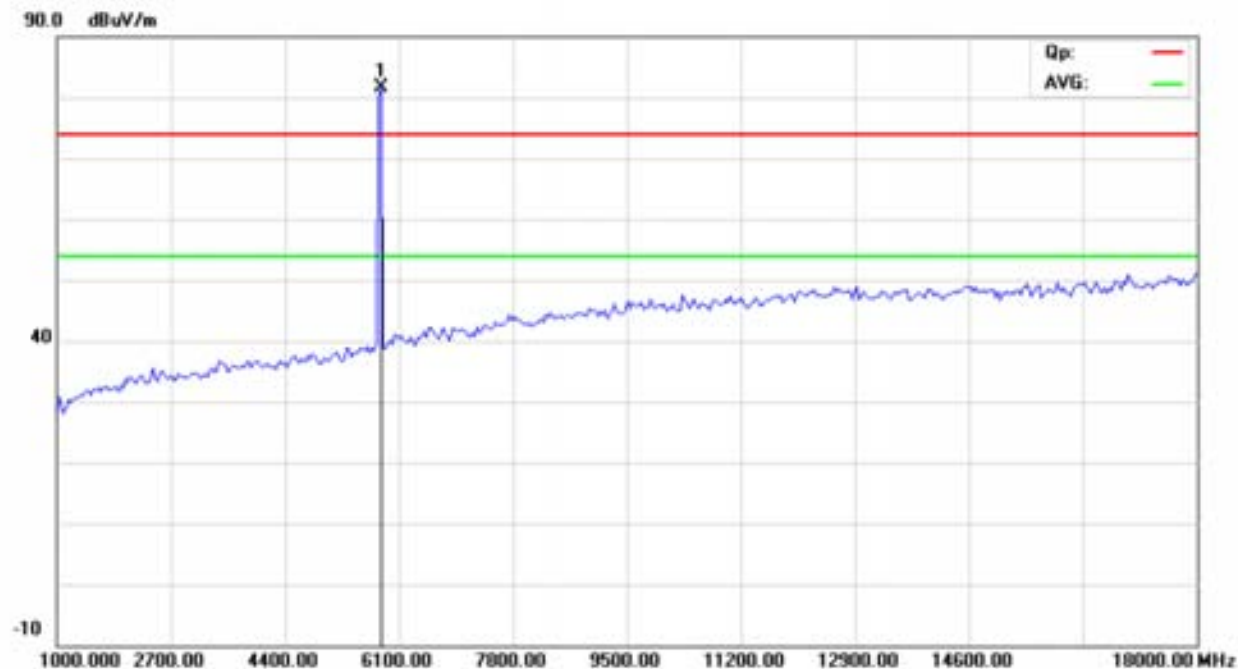
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### Channel 5828MHz : Horizontal



### Channel 5828MHz: Vertical

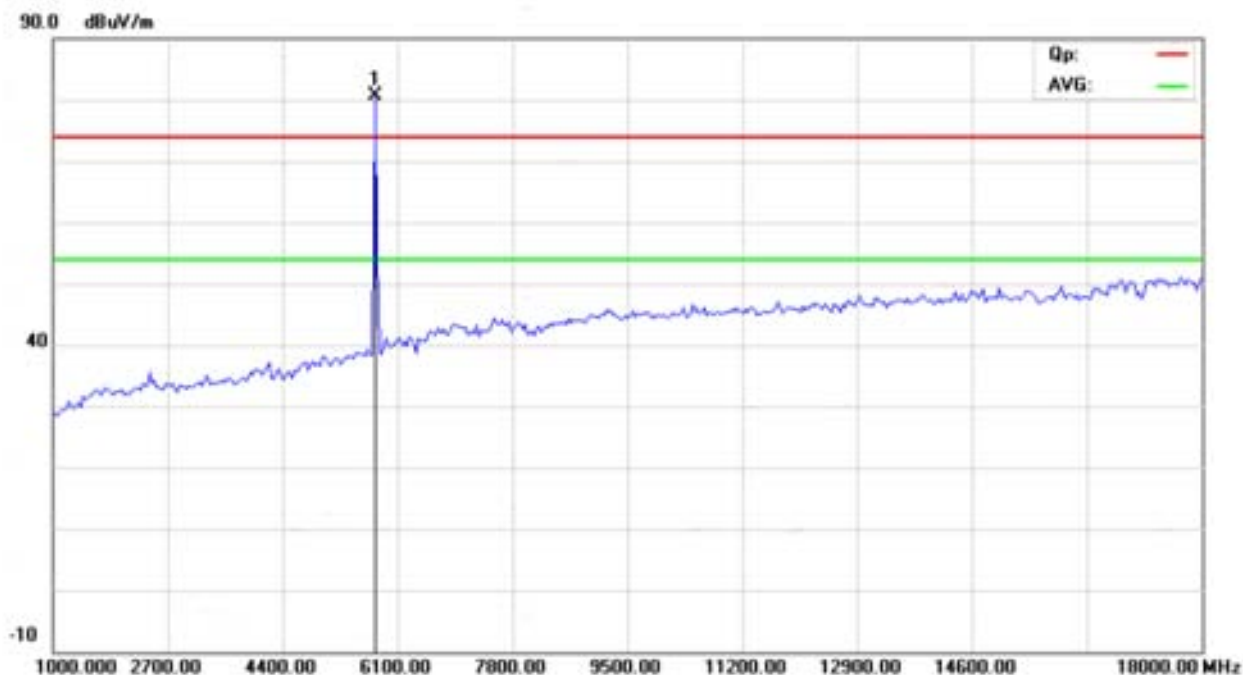


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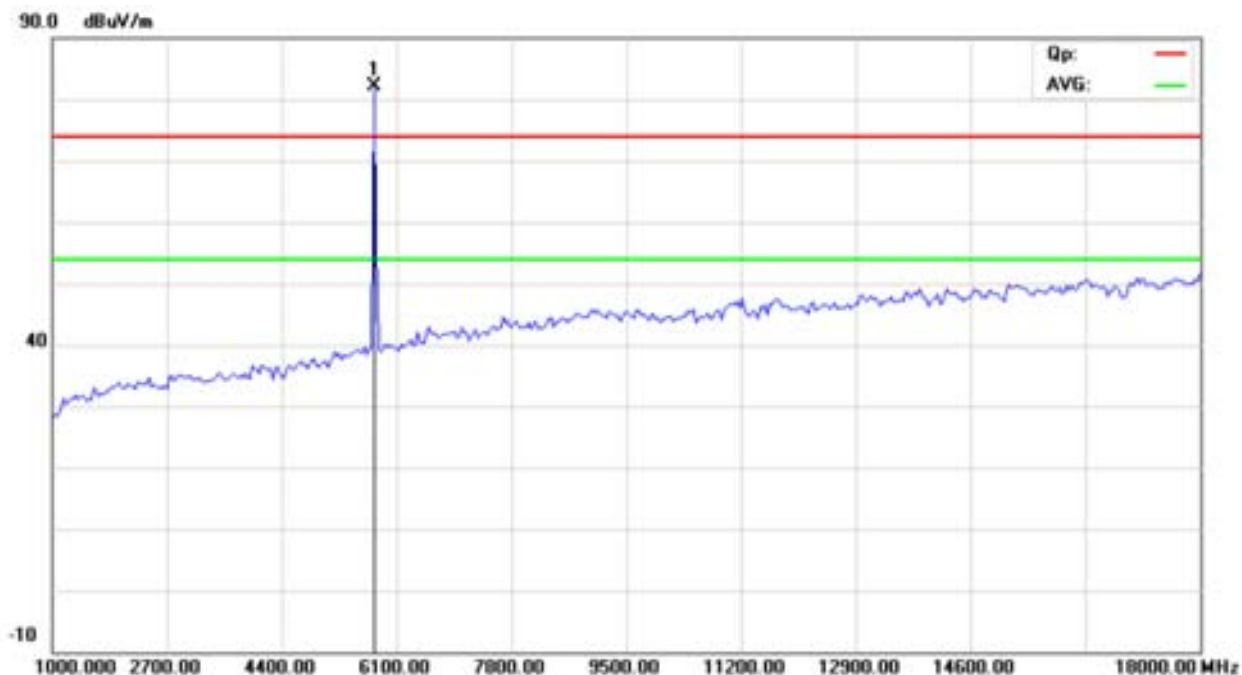
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**Channel 5790MHz : Horizontal**



**Channel 5790MHz: Vertical**



**Note: for the radiated emissions from 18-40GHz, it was the floor noise.**

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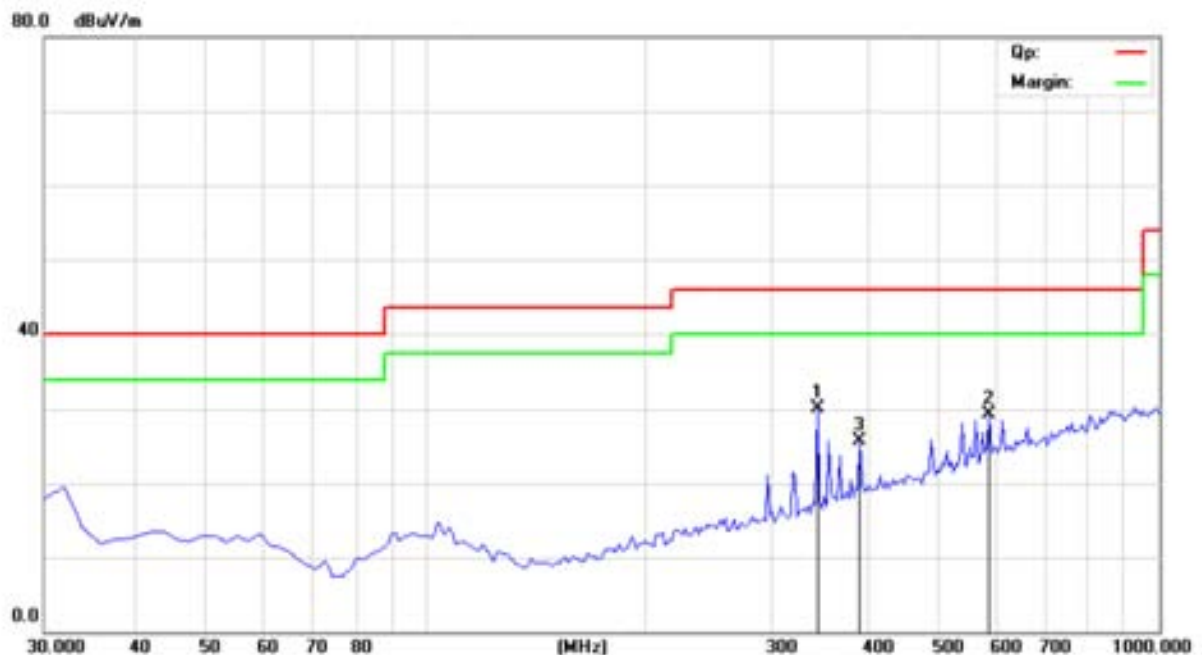


**B. General Radiated Emission Data**  
**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: Keep Tx transmitting

**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)
343.5481	30.08	H	46.00
589.8396	29.39	H	46.00
391.5631	25.69	H	46.00

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**Radiated Emission In Horizontal (30MHz---1000MHz)**

EUT set Condition:   Keep Tx transmitting

**Results:    Pass**

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
103.8676	19.72	V	43.50
31.9438	21.04	V	40.00
331.3025	18.74	V	46.00

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**General Radiated Emission Data**  
**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: Charging Mode

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
240.6857	41.09	H	46.00
99.9800	35.90	H	43.50
162.1844	33.97	H	43.50
376.0120	42.04	H	46.00
399.3387	39.87	H	46.00

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**Radiated Emission In Horizontal (30MHz---1000MHz)**

EUT set Condition: Charging Mode

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
119.4188	39.92	V	43.50
234.1082	40.63	V	46.00
356.5731	33.44	V	46.00
809.4990	35.69	V	46.00

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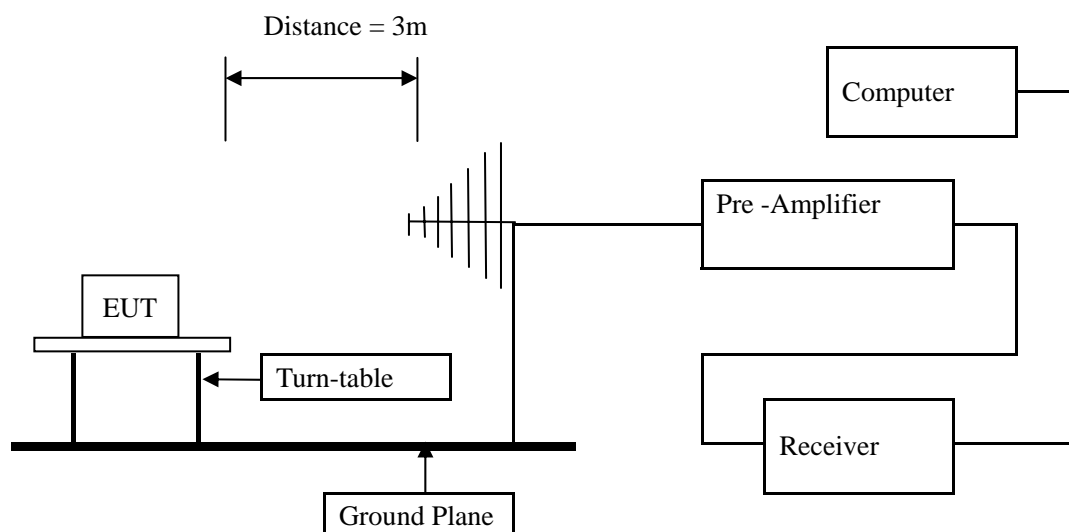


## 7. Band Edge

### 7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) Set Spectrum as RBW=VBW=1MHz and Peak detector used
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

### 7.2 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing

### 7.3 Configuration of The EUT

Same as section 5.3 of this report

### 7.4 EUT Operating Condition

Same as section 5.4 of this report.

### 7.5 Band Edge Limit

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.

Remark: The Number One, Two, Three and Four channel all have been tested; only worse case is reported.

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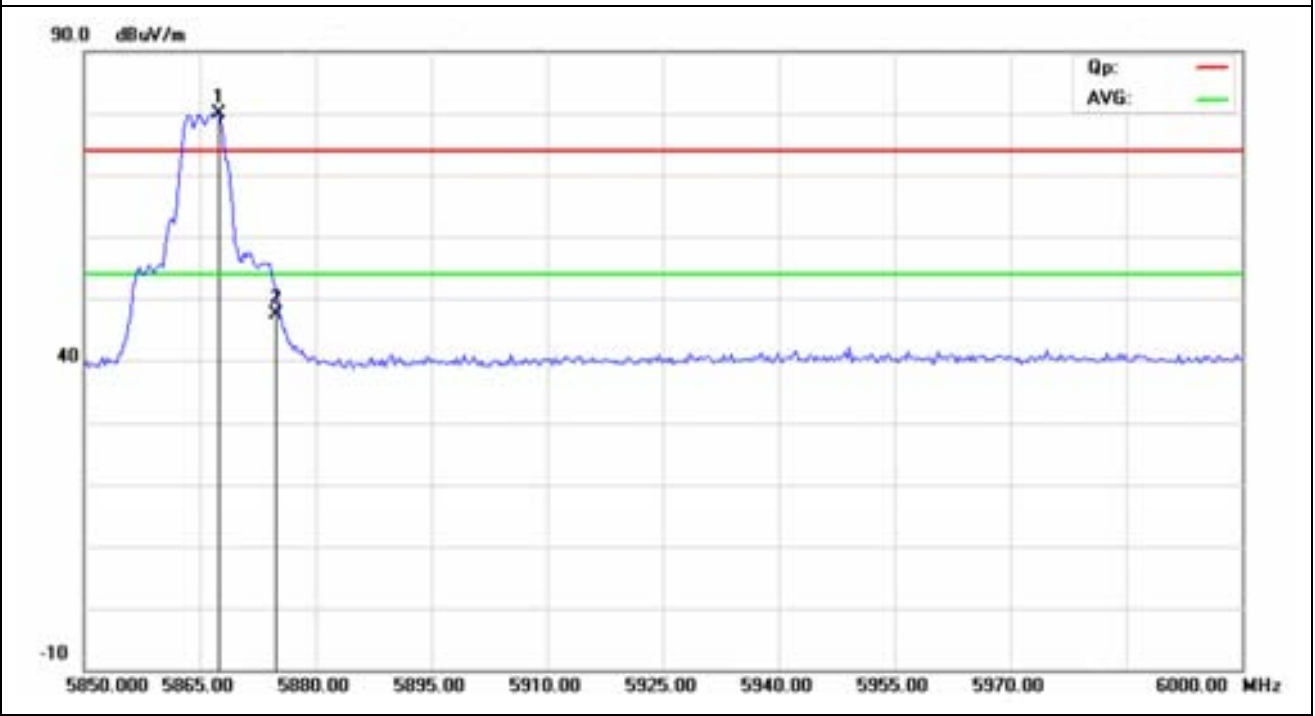
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7.6 Test Result

Product:	Digital Microscope		Test Mode:	Keep transmitting-High Channel
Mode	Keeping Transmitting		Test Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5875.000MHz	PK (dBμV/m)	47.42	Limit	74(dBμV/m)
	AV(dBμV/m)	--		54(dBμV/m)

Horizontal

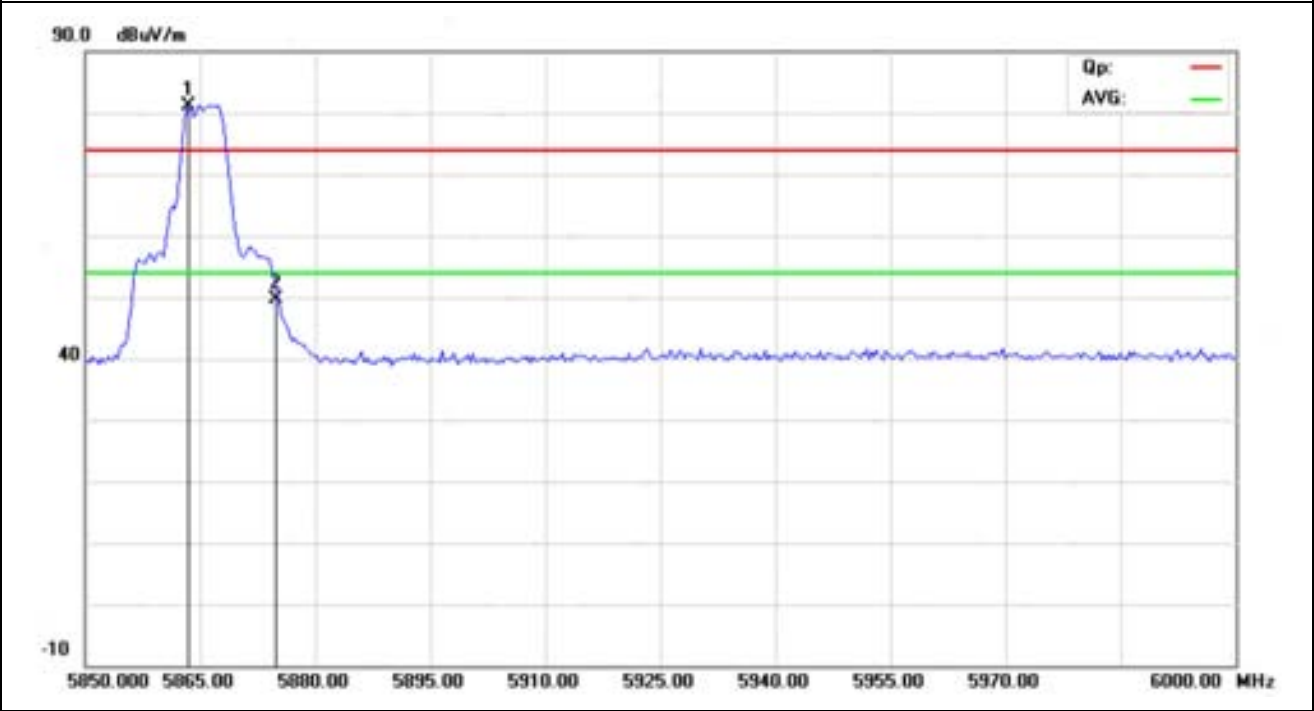


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Product:	Digital Microscope		Test Mode:	Keep transmitting-High Channel
Mode	Keeping Transmitting		Test Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5875.000MHz	PK (dBμV/m)	49.72	Limit	74(dBμV/m)
	AV(dBμV/m)	--		54(dBμV/m)

Vertical

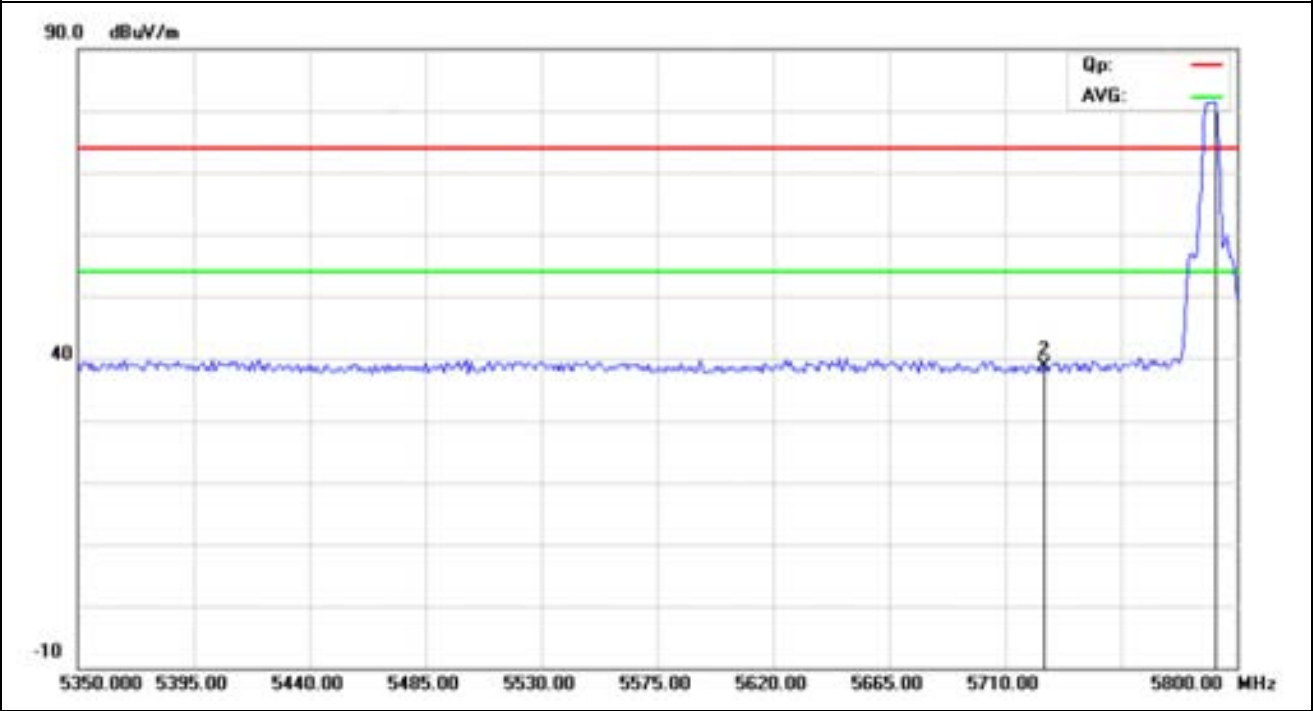


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Product:	Digital Microscope		Test Mode:	Keep transmitting-Low Channel
Mode	Keeping Transmitting		Test Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725.000MHz	PK (dBμV/m)	38.53	Limit	74(dBμV/m)
	AV(dBμV/m)	--		54(dBμV/m)

Horizontal

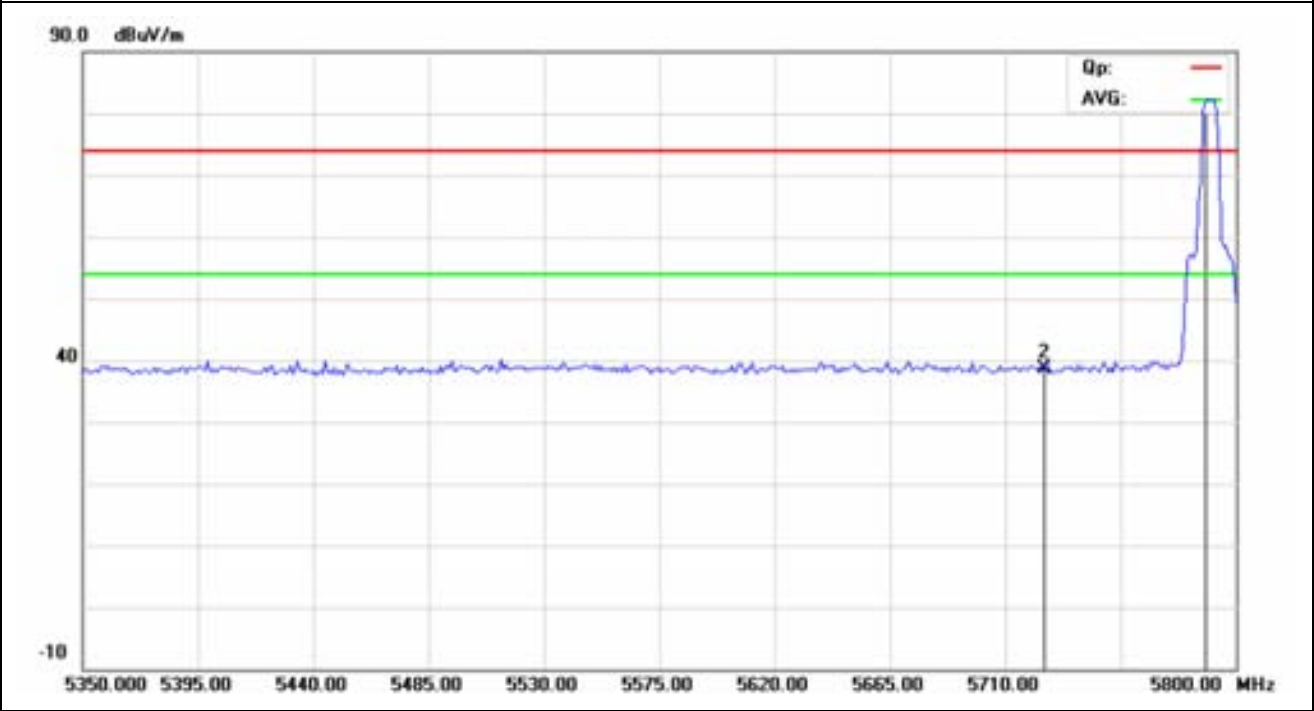


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Product:	Digital Microscope		Test Mode:	Keep transmitting-Low Channel
Mode	Keeping Transmitting		Test Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725.000MHz	PK (dBμV/m)	38.62	Limit	74(dBμV/m)
	AV(dBμV/m)	--		54(dBμV/m)

Vertical



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## 8.0 Antenna Requirement

### Applicable Standard

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.

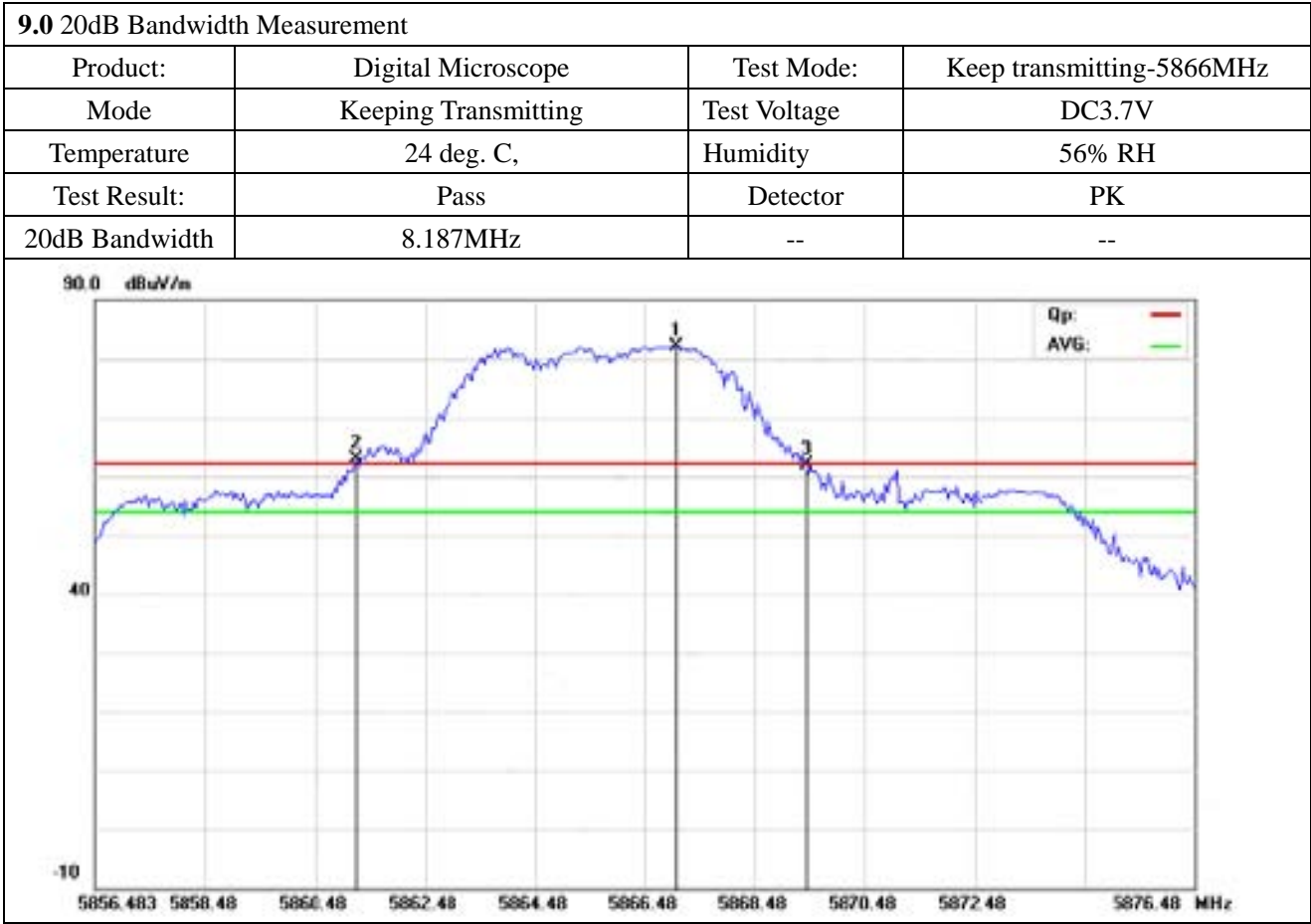
This product has an Omni antenna with gain 2.0dBi, fulfill the requirement of this section.

Test Result: Pass

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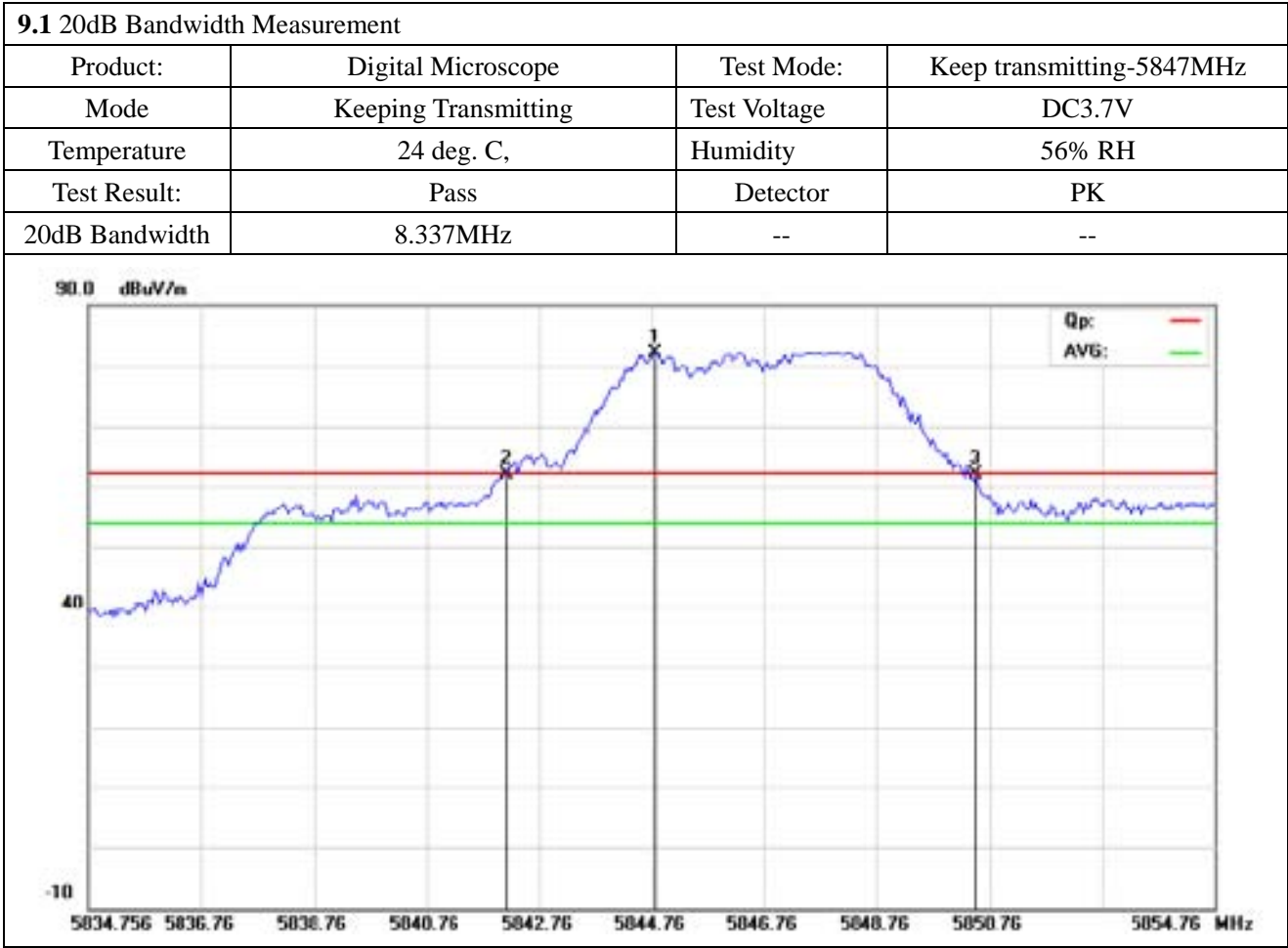
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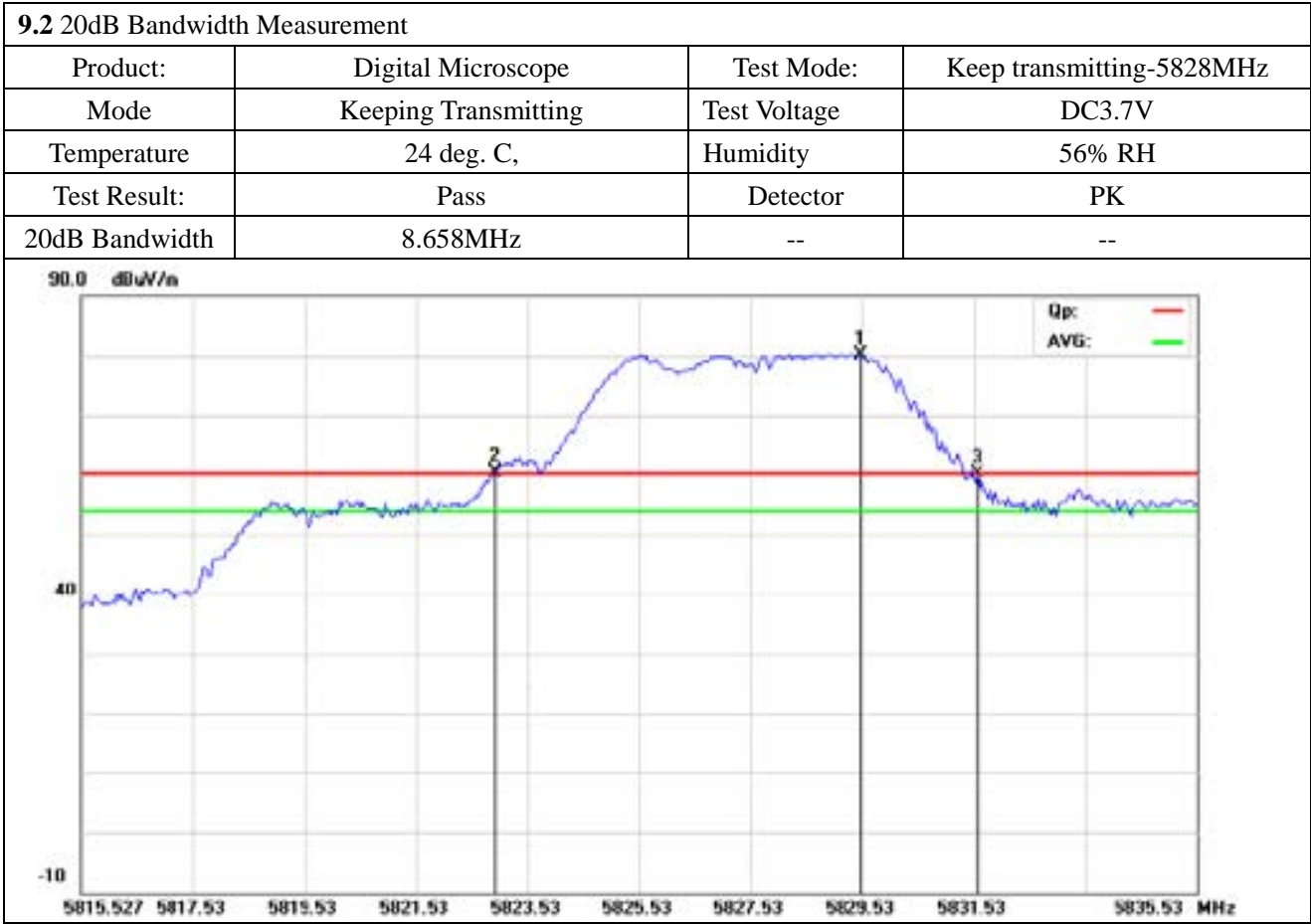
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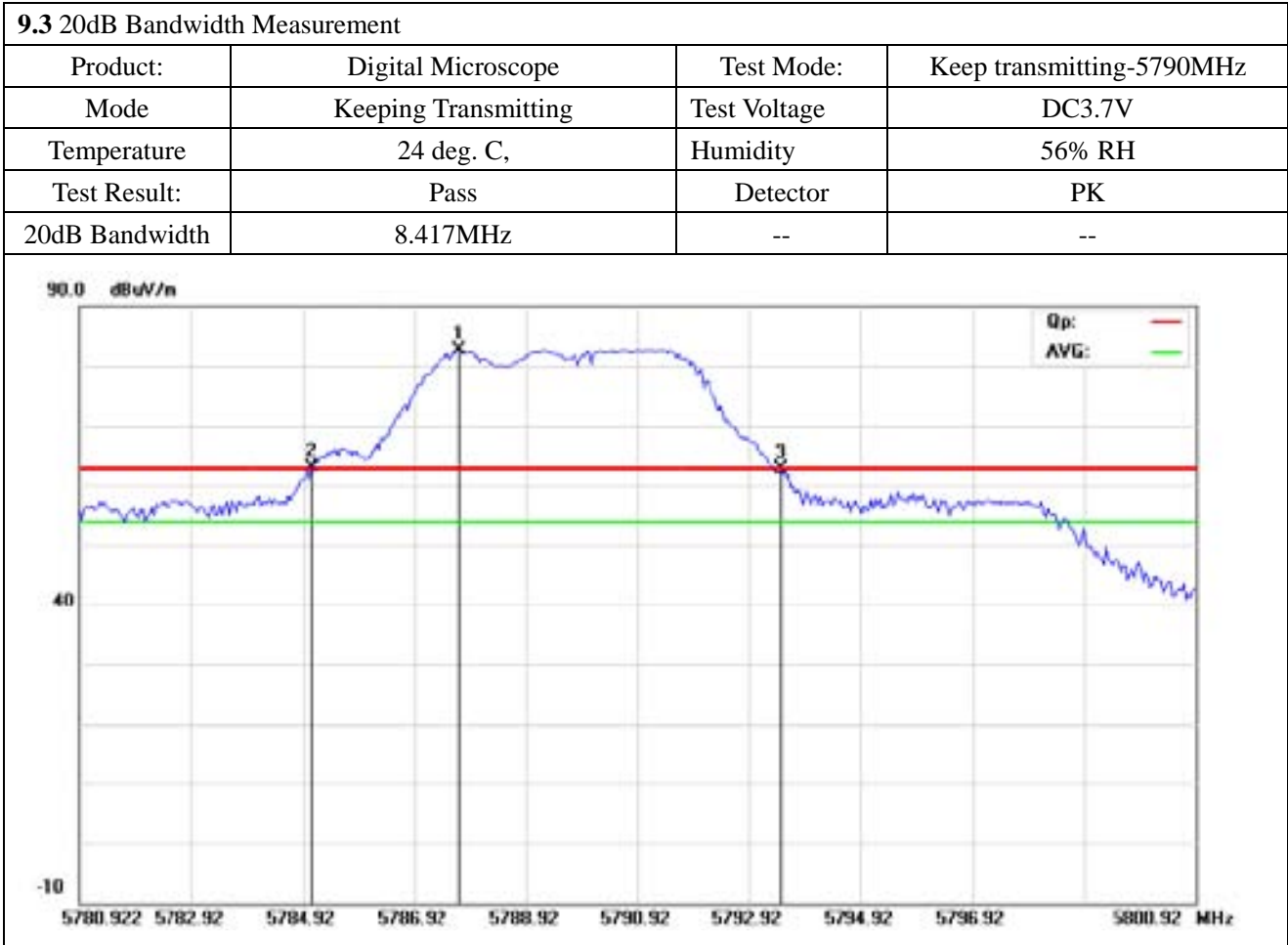




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## 10.0 FCC ID Label

### FCC ID: OXU5800T

**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:



FCC ID Label Location

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## 11.0 Photo of testing

### 11.1 Conducted test View—Charging Mode



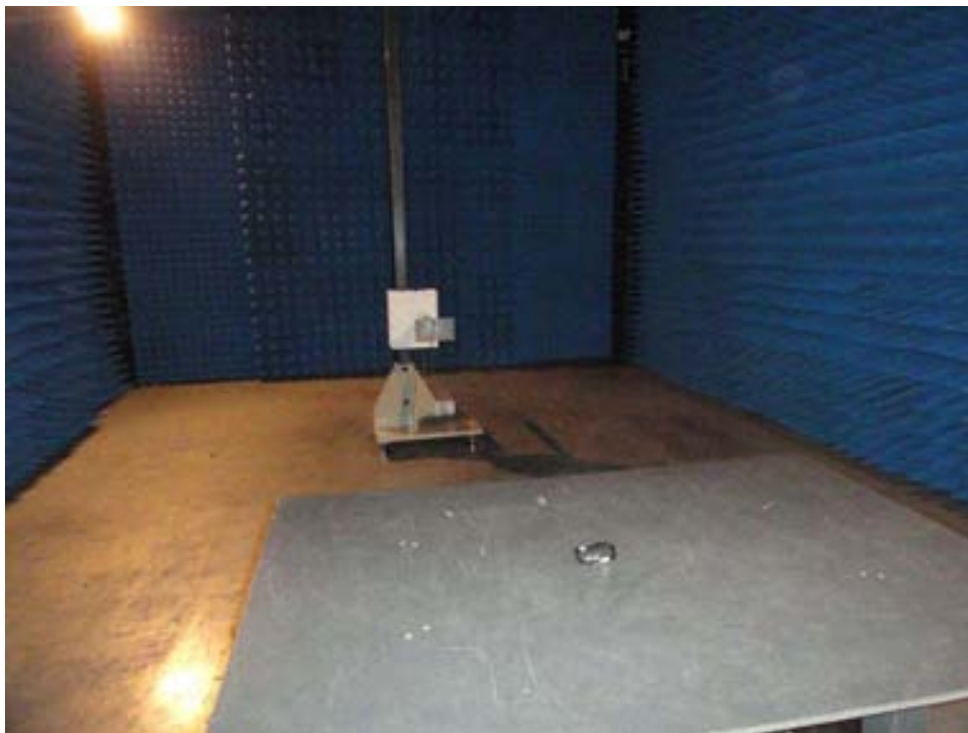
### 11.2 Radiated emission test view



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### 11.3 Photographs - EUT

Outside View— Model No.: DE550



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Outside View—Model No.: DE551



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Outside View—Model No.: GT600



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Interior View for all models



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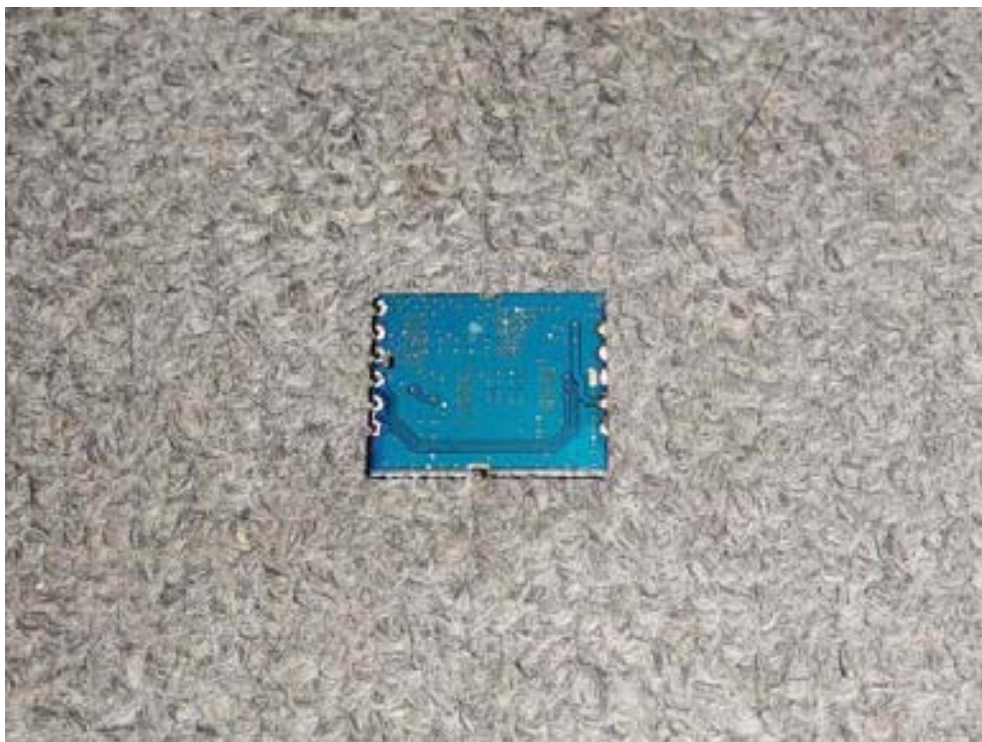
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