





#### ISO/IEC17025 Accredited Lab.

Report No: FCC1012172 File reference No: 2010-12-30

Applicant: Infoxelle Co., Ltd

Product: Handheld Microscope

Model No: VTRV403B

Brand Name: ViewTi

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: December 30, 2010

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

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## **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-02

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 Sates

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: Infoxelle Co., Ltd

Address: 20C Caixiage Caihongxindou, Gangxia Villiage, Futian, Shenzhen, GD.518033, P.R.C.

Telephone: +86-755-82971759 Fax: +86-755-82971265

#### 1.3 Description of EUT

Product: Handheld Microscope
Manufacturer: Infoxelle Co., Ltd

Brand Name: ViewTi
Model Number: VTRV403B

Additional Model Name VTRV403LB, VTRV403UVWB, VTRV403CB, VTRV403TB,

VTRV403IB,VTRV403EB,DE-550,GT-600,DE-650,DE-750, CK-EW938

Additional Trade Name N/A

Rating: DC 3.7V Lithium Battery (It can be charged through the Mini-USB port)

Modulation Type: FM

Operation Frequency 2414MHz, 2432MHz, 2450MHz, 2468MHz (a channel switch provided to the

EUT to change the operation frequency)

Antenna Designation A ceramic chip antenna and the maximum gain is 2dBi

#### 1.4 Submitted Sample

1 Sample

#### 1.5 Test Duration

2010-12-15 to 2010-12-30

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

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1.6 Test Uncertainty

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

1.7 Test Engineer

The sample tested by

Print Name: Terry Tang

6.0		Test Equip	ments		
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2010-12-04	2011-12-03
Absorbing Clamp	ROHDE&SCHWARZ	MDS-21	100126	2010-12-04	2011-12-03
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2010-12-04	2011-12-03
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2010-12-04	2011-12-03
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2010-12-04	2011-12-03
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2010-03-29	2011-03-28
4-WIRE ISN	ROHDE&SCHWARZ	ENY 41	830663/044	2010-02-17	2011-02-16
GG ENY22 Double 2-Wire ISN	ROHDE&SCHWARZ	ENY22	83066/016	2010-02-17	2011-02-16
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2010-02-17	2011-02-16
System Controller	CT	SC100	-	2010-02-17	2011-02-16
Printer	EPSON	РНОТО ЕХЗ	CFNH234850	2010-02-17	2011-02-16
FM-AM Signal Generator	JUNG.JIN	SG-150M	389911177	2010-02-17	2011-02-16
Color TV Pattern Generator	PHILIPS	PM5418	LO621747	2010-02-17	2011-02-16
Computer	IBM	8434	1S8434KCE99BLXL O*	-	-
Oscillator	KENWOOD	AG-203D	3070002	2010-02-17	2011-02-16
Spectrum Analyzer	HAMEG	HM5012	-	-	-
Power Supply	LW	APS1502	-	-	-

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		V/ /27	/			
5K VA AC Power	California Instruments	5001iX	56060	2010-02-17	2011-02-16	
Source		0001111	20000	2010 02 17	2011 02 10	
CDN	EM TEST	CDN M2/M3	1	2010-02-17	2011-02-16	
Attenuation	EM TEST	ATT6/75	-	2010-02-17	2011-02-16	
Resistance	EM TEST	R100	•	2010-02-17	2011-02-16	
Electromagnetic	LITTHI	EM101	35708	2010-02-17	2011-02-16	
Injection Clamp	LIIIII	EMITOI	33708	2010-02-17	2011-02-10	
Inductive	EM TEST	MC2630		2010-02-17	2011-02-16	
Components	ENTEST	WIC2030	,	2010-02-17	2011-02-10	
Antenna	EM TEST	MS100	•	2010-02-17	2011-02-16	
Signal Generator	ROHDE&SCHWARZ	SMT03	100029	2010-02-17	2011-02-16	
Power Amplifier	AR	150W1000	300999	2010-02-17	2011-02-16	
Field probe	Holaday	HI-6005	105152	2010-02-17	2011-02-16	
Bilog Antenna	Chase	CBL6111C	2576	2010-02-17	2011-02-16	
Loop Antenna	EMCO	6502	00042960	2010-02-17	2011-02-16	
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2010-02-17	2011-02-16	
3m OATS			N/A	2010-02-17	2011-02-16	

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#### 3.0 **Technical Details**

#### 3.1 **Summary of test results**

The EUT has been tested according to the	ne following speci	fications:	
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**

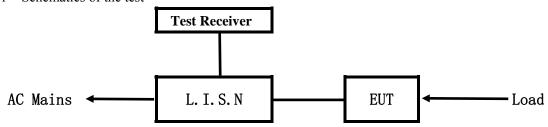
No modification by Shenzhen Timeway Technology Consulting Co.,Ltd

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#### 5. Power Line Conducted Emission Test

#### 5.1 Schematics of the test

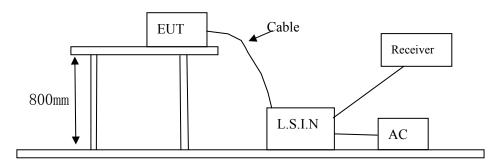


**EUT: Equipment Under Test** 

#### 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 500hm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Test Voltage: 120V~, 60Hz 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
Handheld	Infoxelle Co., Ltd.	VTRV403	Y5WVTRV403
Microscope			

#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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#### C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

#### 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

Eraguanay (MHz)	Class A Lir	nits (dB µ V)	Class B Limits (dB $\mu$ V)		
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
$0.15 \sim 0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*	
$0.50 \sim 5.00$	73.0	60.0	56.0	46.0	
$5.00 \sim 30.00$	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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0.0

0.150

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

**EUT Operating Environment** 

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

**EUT set Condition: Charging Mode** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual

# 

Frequency	Line	Reading(	dBμV)	Limit(	dBμV)
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.1835	Live	42.04	20.83	64.33	54.33
0.2414	Live	33.63	12.04	62.05	52.05
7.3361	Live	32.88	18.72	60.00	50.00
9.2561	Live	34.26	21.97	60.00	50.00

(MHz)

30.000

0.5

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

### **EUT Operating Environment**

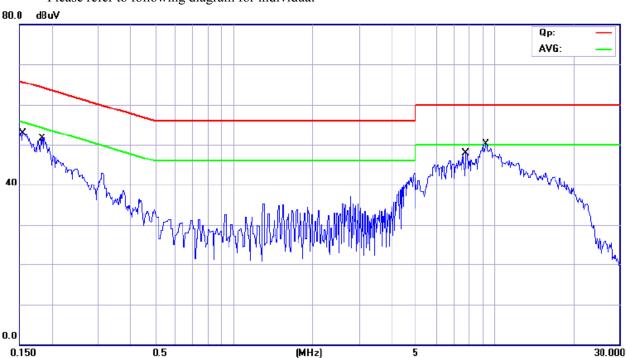
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Charging Mode** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency	Line	Reading(	dBμV)	Limit(	dBμV)
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.1552	Neutral	42.21	36.16	65.72	55.72
0.1820	Neutral	41.31	36.99	64.39	54.39
7.8280	Neutral	31.96	19.41	60.00	50.00
9.1995	Neutral	36.09	26.67	60.00	50.00

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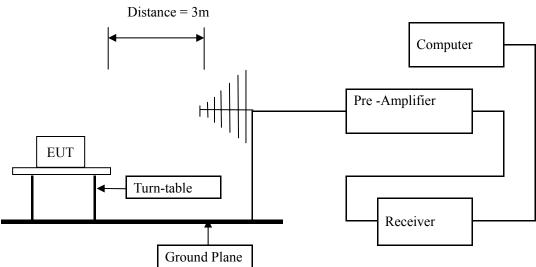
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#### **6** Radiated Emission Test

- 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 25 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.

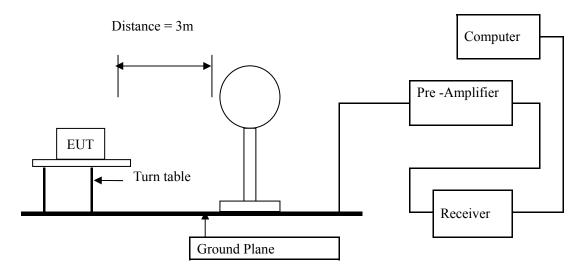
#### **Block diagram of Test setup**



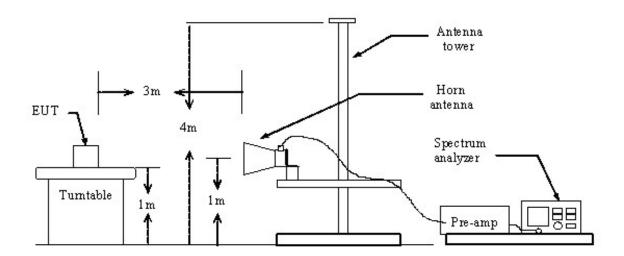
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Block diagram of Test setup for frequency below 30MHz



Block diagram of Test setup for frequency above 1GHz



Configuration of The EUT Same as section 5.3 of this report

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	Field Strength of Fundamental (3m)			Field S	trength of Harmo	onics (3m)
(MHz)	mV/m	dBuV/m		uV/m	dBu	V/m
2400-2483.5	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)
0.009-0.490	3	20log 2400/F (kHz) + 80
0.490-1.705	3	20log 24000/F (kHz) + 40
1.705-30	3	20log 30 + 40
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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. This is a handhold 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.
- 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-25G, the final emission level got using PK and AV detector.
- 6. If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula Ld1 = Ld2 \* (d2/d1)

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#### 6.5 Test result

#### **Fundamental & Harmonics Radiated Emission Data** $\mathbf{A}$

Product:	Handheld	Test Mode:	Low Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	3.7VDC	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2414	89.79(PK)	Н	114/94	-4.21
2414	92.31(PK)	V	114/94	-1.69
4828	44.63(PK)	Н	74/54	9.73
4828	46.89(PK)	V	74/54	-7.11
7242		Н	74/54	
7242		V	74/54	
9656		H/V	74/54	
12070		H/V	74/54	
14484		H/V	74/54	
16898		H/V	74/54	
19312		H/V	74/54	
21726		H/V	74/54	
24140		H/V	74/54	

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Product:	Handheld	Test Mode:	Middle Channel		
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃		
Test Voltage:	3.7VDC	Humidity:	56%		
Test Result:	Pass				

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2432	86.98(PK)	Н	114/94	-7.02
2432	91.61(PK)	V	114/94	-2.39
4864	41.87 (PK)	Н	74/54	-12.13
4864	47.99(PK)	V	74/54	-6.01
7296		Н	74/54	
7296		V	74/54	
9728		H/V	74/54	
12160		H/V	74/54	
14592		H/V	74/54	
17024		H/V	74/54	
19456		H/V	74/54	
21888		H/V	74/54	
24320		H/V	74/54	

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Product:	Handheld	Test Mode:	High Channel		
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃		
Test Voltage:	3.7VDC	Humidity:	56%		
Test Result:	Pass				

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2468	86.43(PK)	Н	114/94	-7.57
2468	90.24(PK)	V	114/94	-3.76
4936	43.91(PK)	V	74/54	-10.09
4936	41.45(PK)	Н	74/54	-12.55
7404		H/V	74/54	
9872		H/V	74/54	
12340		H/V	74/54	
14808		H/V	74/54	
17276		H/V	74/54	
19744		H/V	74/54	
22212		H/V	74/54	
24680		H/V	74/54	

Note: (1) PK= Peak, AV= Average

- (2) Emission Level = Reading Level + Probe 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.. So necessary to take down the measured AV value.
- (6) For the radiated emission from 18-25GHz, it was the floor noise and meet the requirement of rule.

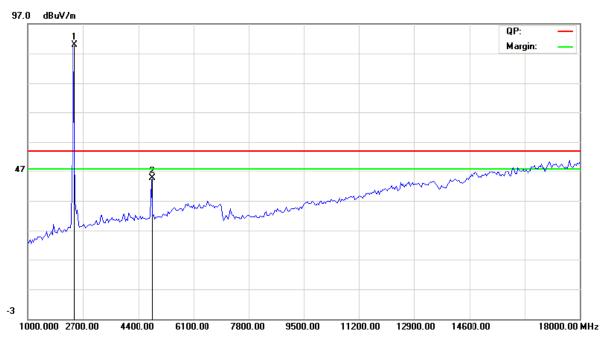
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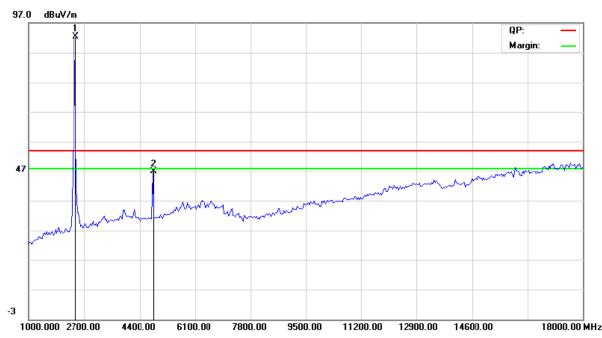
Please refer to following diagram for individual

Low Channel

Η







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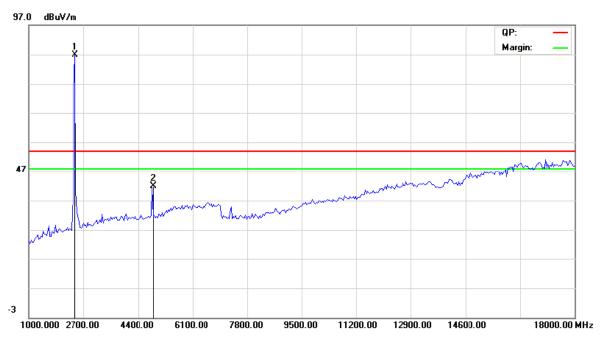
Date: 2010-12-30



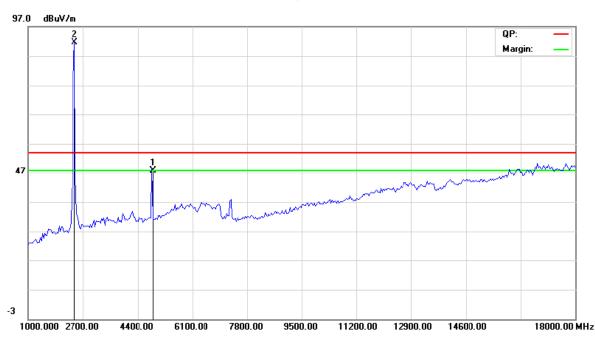
Please refer to following diagram for individual

Middle Channel

Η



V



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

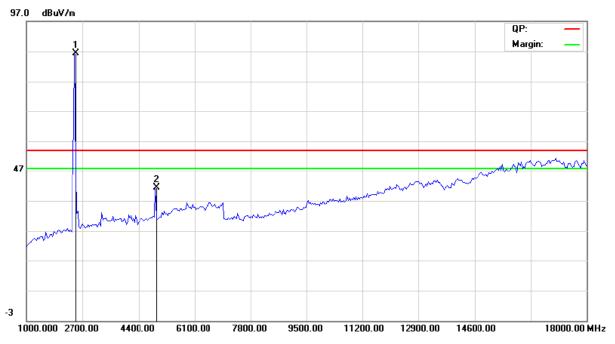
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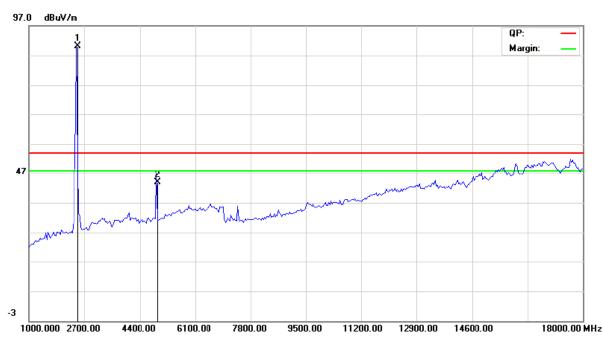
Please refer to following diagram for individual

High Channel

Η







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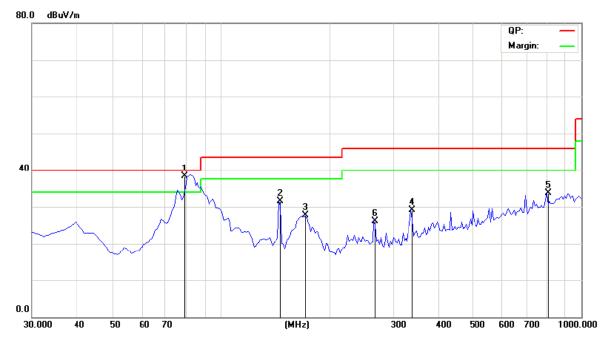


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep transmitting at Low Channel

**Results:** Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \u03b4 V/m)
79.154	38.34	Н	40.00
146.40	31.44	Н	43.50
170.65	27.74	Н	43.50
267.65	26.11	Н	46.00
337.975	29.16	Н	46.00
803.575	33.72	Н	46.00

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## Radiated Emission In Vertical (30MHz---1000MHz

EUT set Condition: Keep transmitting at Low Channel

**Results:** Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
37.351	31.40	V	40.00
83.350	33.92	V	40.00
165.800	27.18	V	43.50
502.875	34.58	V	46.00
558.650	32.99	V	46.00
701.725	41.11	V	46.00

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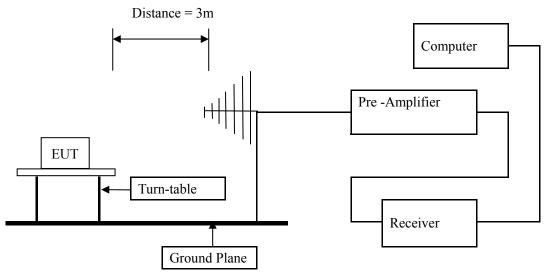


## 7. Band Edge

#### 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.

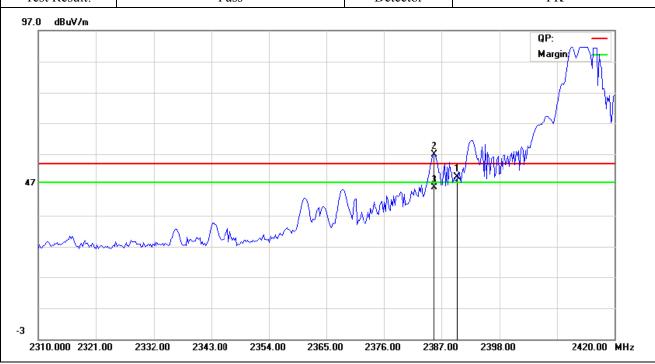
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#### 7.6 Test Result

Product:	Handheld	Test Mode:	Low Channel
Mode	Keeping Transmitting	Test Voltage	DC 3.7V
Temperature	24 deg. C	Humidity	56% RH
Test Result:	Pass	Detector	PK
97.0 dBuV/m			



Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Detector	Limit@3m (dB µ V/m)
2390.00	49.72	Peak	74.00
2385.611	56.97	Peak	74.00
2385.611	46.11	AV	54.00

Note: Field Strength in restrict band measured in conventional manner

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Product:	Handheld	Test Mode:	High Channel
Mode	Keeping Transmitting	Test Voltage	DC 3.7V
Temperature	24 deg. C	Humidity	56% RH
Test Result:	Pass	Detector	PK
97.0 dBuV/m			
			QP: — Margin: —
	My My		
4 1 Ax		May have	2 4
47		Wwwwky	
**			* * * * * * * * * * * * * * * * * * * *

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Detector	Limit@3m (dB \mu V/m)
2483.500	51.37	peak	74.00
2488.910	60.35	peak	74.00
2488.910	49.61	AV	54.00
2495.716	54.57	peak	74.00
2495.716	40.86	AV	54.00

Note: 1. Field Strength in restrict band measured in conventional manner

2. Emission Level = Reading Level + Probe Factor + Cable Loss.

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#### 8.0 Antenna Requirement

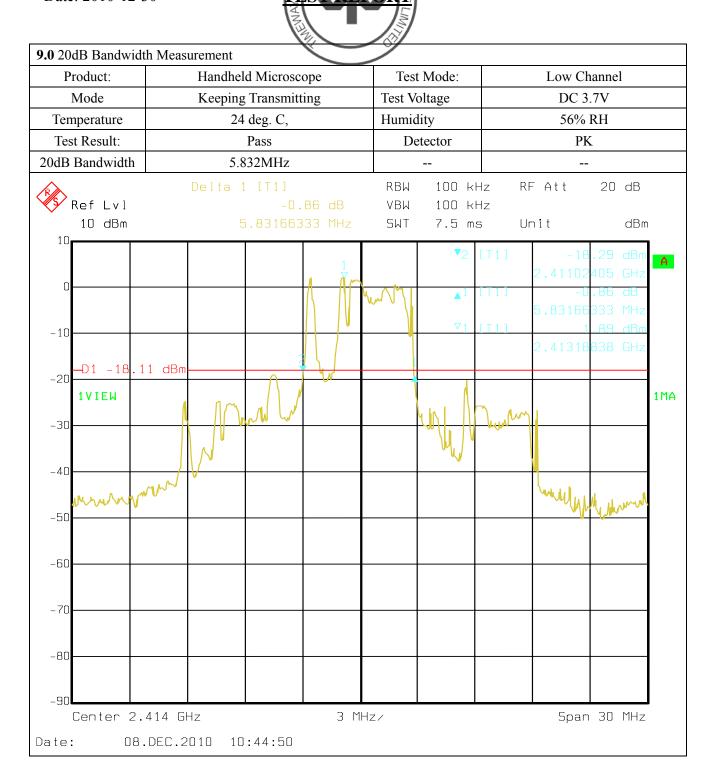
#### **Applicable Standard**

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.

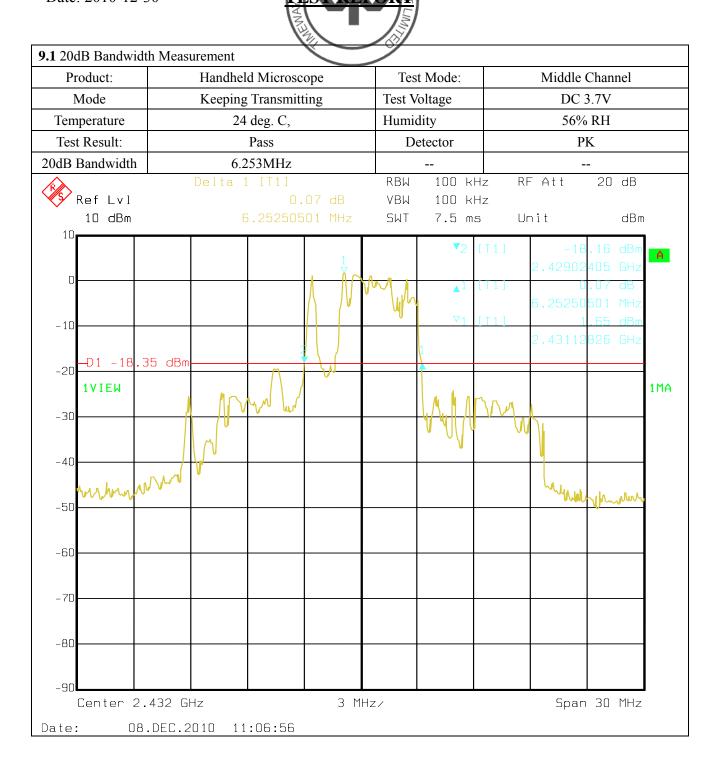
A ceramic chip antenna and the maximum Gain of the antenna is 2dBi.

Test Result: Pass

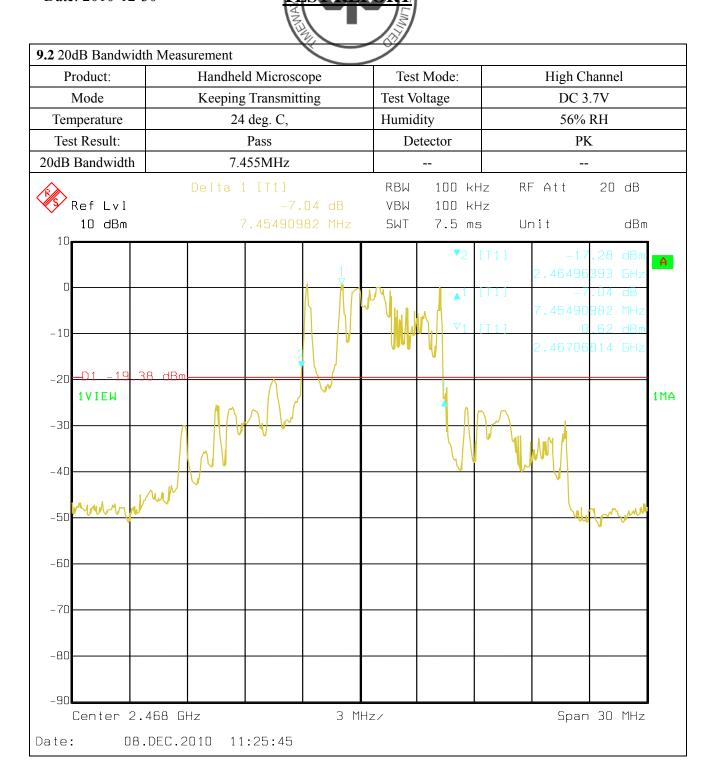
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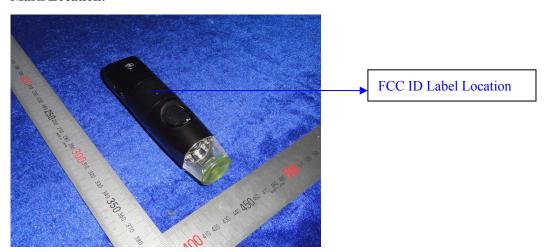
#### 10.0 FCC ID Label

## FCC ID: Y5WVTRV403B

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:**



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#### 11.0 Photo of testing

11.1 Conducted test View--Charging Mode:



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#### 11.2 Radiated emission test view



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

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#### 11.3 Photo for the EUT

#### Outside View of the EUT



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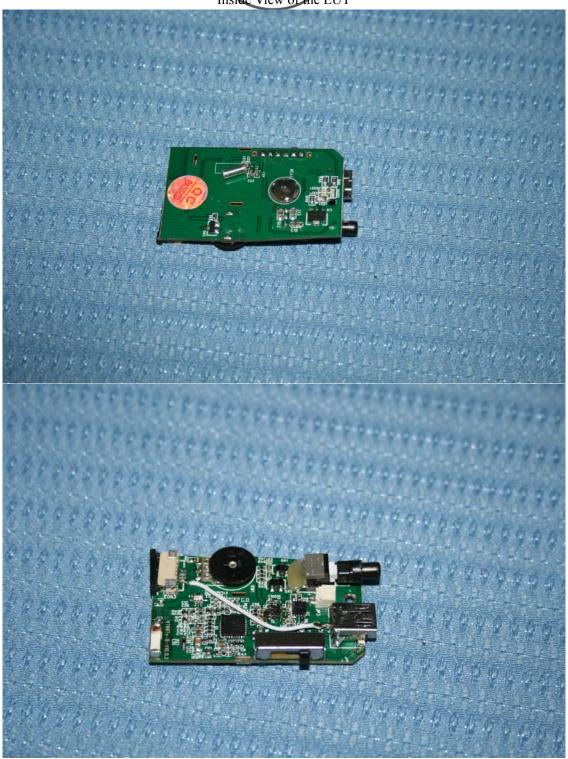
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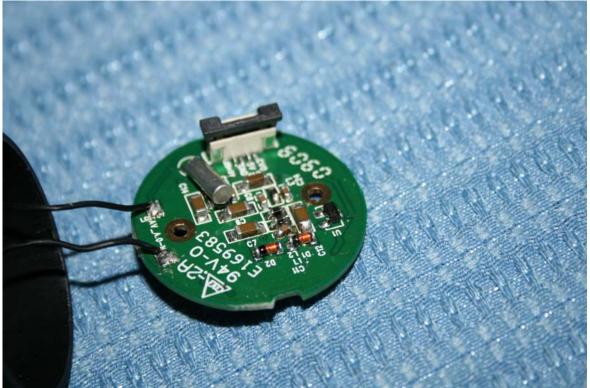
The report refers only to the sample tested and does not apply to the bulk.

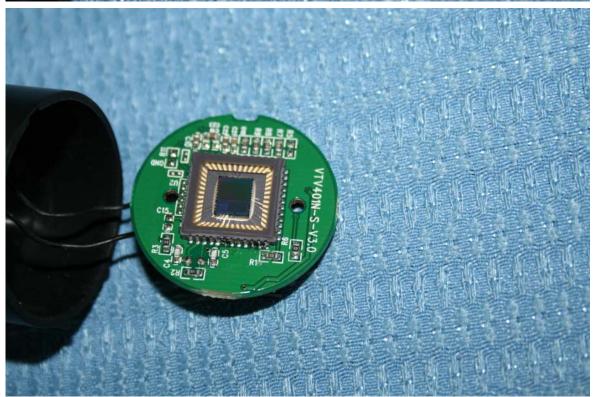
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-- End of the report--

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