

FCC TEST REPORT

47 CFR FCC Part 15 Subpart B

Report Reference No.....: TRE13040077 R/C:71010

FCC ID.....: MMAXTc280

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Date of issue.....: Apr 17, 2013

Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd

Address: Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China

Applicant's name.....: Midland Radio Corporation

Address: 5900 Parretta Drive, Kansas City, MO, 64120, USA

Test specification:

Standard: 47 CFR FCC Part 15 Subpart B - Unintentional Radiators
ANSI C63.4: 2009

TRF Originator: Shenzhen Huatongwei International Inspection CO., Ltd

Master TRF: Dated 2006-06

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Test item description: HD Action Camera

Trade Mark: 

Manufacturer: Wicom Electronic Co., Ltd.

Model/Type reference.....: XTC280

Listed Models: XTC285

Result.....: Positive

TEST REPORT

Test Report No. :	TRE13040077	Apr 17, 2013 Date of issue
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Equipment under Test : HD Action Camera

Model /Type : XTC280

Listed Models : XTC285

Applicant : **Midland Radio Corporation**

Address : 5900 Parretta Drive, Kansas City, MO, 64120, USA

Manufacturer : **Wicom Electronic Co., Ltd**

Address : 4-6/F., Building A2, Penghongxin Industrial Park, Zhoushi Road, Huangmabu Community, Xixiang, Bao'an District, Shenzhen, China

Test Result according to the standards on page 4:	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

[**47 CFR FCC Part 15 Subpart B - Unintentional Radiators**](#)

[**ANSI C63.4: 2009**](#) – American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	Apr 10, 2013
Testing commenced on	:	Apr 10, 2013
Testing concluded on	:	Apr 17, 2013

2.2. Equipment Under Test

Power supply system utilised

Power supply voltage	:	<input type="radio"/> 120V / 60 Hz	<input type="radio"/> 115V / 60Hz
		<input type="radio"/> 12 V DC	<input type="radio"/> 24 V DC
		<input checked="" type="radio"/> Other (specified in blank below)	

DC 3.7V

2.3. Short description of the Equipment under Test (EUT)

HD Action Camera (XTC280)

For more details, refer to the user's manual of the EUT.

Serial number: XTC280

2.4. EUT operation mode

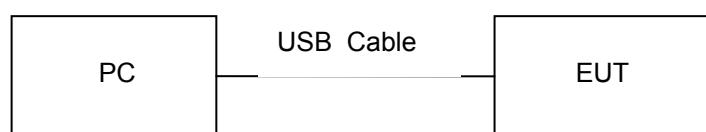
The EUT has been tested under typical operating condition.

2.5. Modifications

No modifications were implemented to meet testing criteria.

2.6. Configuration of Tested System

Configuration of Tested System



Equipment Used in Tested System

No.	Equipment	Manufacturer	Model No.	Serial No.	Notes
1	HD Action Camera	Wicom	XTC280	/	/
2	PC	Dell	OPTIPLEX360	GCF1J2X	DoC
3	LCD	PHILIPS		AU2A1241001321	DoC

2.7. NOTE

The EUT is a HD Action Camera, The functions of the EUT listed as below:

	Test Standards	Reference Report
EMC REPORT	FCC PART 15 Subpart B	TRE13040077

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen Huatongwei International Inspection Co., Ltd
Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China
Phone: 86-755-26715686 Fax: 86-755-26748089

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2003) and CISPR Publication 22.

3.2. Test Facility

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

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: Mar. 29, 2012. Valid time is until Feb. 28, 2015.

A2LA-Lab Cert. No. 2243.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until Sept. 30, 2013.

FCC-Registration No.: 662850

Shenzhen Huatongwei International Inspection Co., Ltd. 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 662850, Renewal date June. 01, 2012, valid time is until June. 01, 2015.

IC-Registration No.: 5377A

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377A on Jan. 25, 2011, valid time is until Jan. 24, 2014.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

NEMKO-Aut. No.: ELA125

Shenzhen Huatongwei International Inspection Co., Ltd has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10, the authorization is valid through July 07, 2013

VCCI

The 3m Semi-anechoic chamber (12.2m×7.95m×6.7m) and Shielded Room (8m×4m×3m) of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-292. Date of Registration: Dec. 24, 2010. Valid time is until Dec. 23, 2013.

Main Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-2726. Date of Registration: Dec. 20, 2012. Valid time is until Dec. 19, 2015.

Telecommunication Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-1837. Date of Registration: May 07, 2010. Valid time is until May 06, 2013.

DNV

Shenzhen Huatongwei International Inspection Co., Ltd. has been found to comply with the requirements of DNV towards subcontractor of EMC and safety testing services in conjunction with the EMC and Low voltage Directives and in the voluntary field. The acceptance is based on a formal quality Audit and follow-ups according to relevant parts of ISO/IEC Guide 17025 (2005), in accordance with the requirements of the DNV Laboratory Quality Manual towards subcontractors. Valid time is until Aug. 24, 2013.

3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9K-30MHz	3.22 dB	(1)
Radiated Emission	30~1000MHz	4.24 dB	(1)
Radiated Emission	1~18GHz	5.16 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.39 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.5. Equipments Used during the Test

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI TEST RECEIVER	Rohde & Schwarz	ESCI	100106	2012/10/27
2	ARTIFICIAL MAINS	Rohde & Schwarz	ESH2-Z5	100028	2012/10/27
3	PULSE LIMITER	Rohde & Schwarz	ESHSZ2	100044	2012/10/27
4	EMI TEST SOFTWARE	Rohde & Schwarz	ES-K1	N/A	2012/10/27

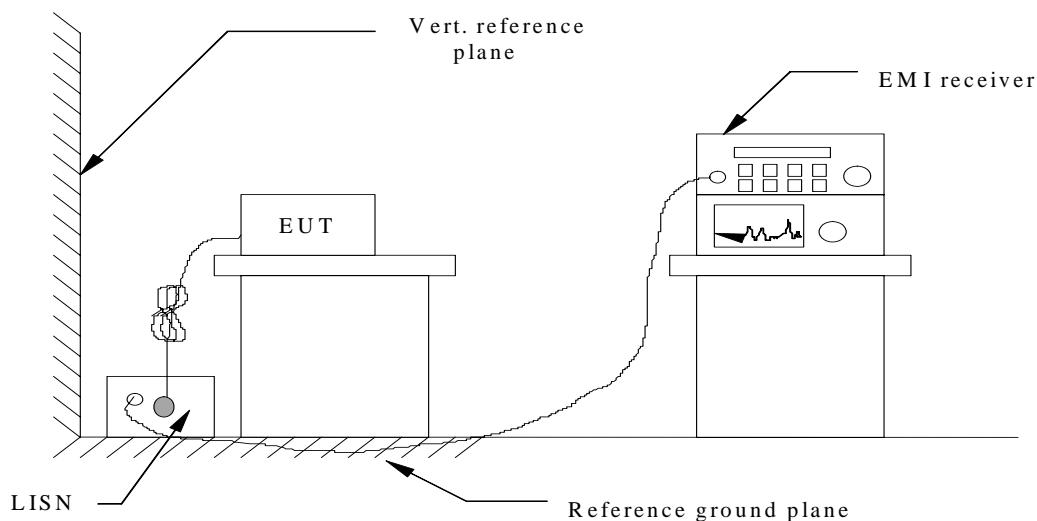
Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ULTRA-BROADBAND ANTENNA	Rohde & Schwarz	HL562	100015	2012/10/27
2	EMI TEST RECEIVER	Rohde & Schwarz	ESI 26	100009	2012/10/27
3	RF TEST PANEL	Rohde & Schwarz	TS / RSP	335015/ 0017	2012/10/27
4	TURNTABLE	ETS	2088	2149	2012/10/27
5	ANTENNA MAST	ETS	2075	2346	2012/10/27
6	EMI TEST OFTWARE	Rohde & Schwarz	ESK1	N/A	2012/10/27
7	HORN ANTENNA	Rohde & Schwarz	HF906	100039	2012/10/27
8	Amplifier	Sonoma	310N	E009-13	2012/10/27
9	JS amplifier	Rohde & Schwarz	JS4-00101800-28-5A	F201504	2012/10/27
10	High pass filter	Compliance Direction systems	BSU-6	34202	2012/10/27
13	Loop Antenna	Rohde&Schwarz	HFH2-Z2	100020	2012/10/27

The calibration interval was one year.

4. TEST CONDITIONS AND RESULTS

4.1. Conducted Emissions Test

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4-2009.
- 2 Support equipment, if needed, was placed as per ANSI C63.4-2009.
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4-2009.
- 4 The EUT received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

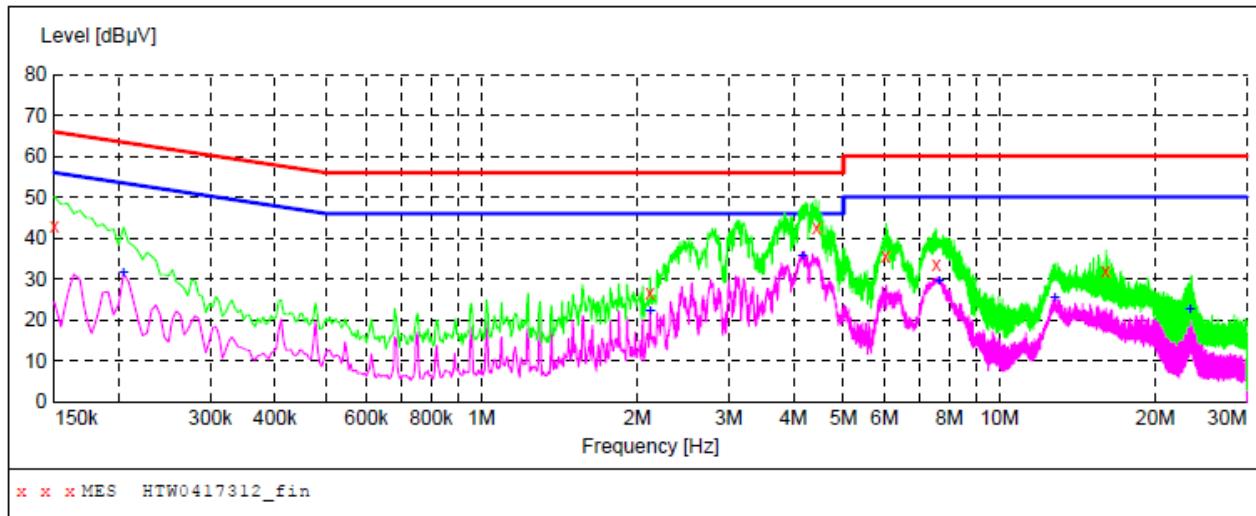
CONDUCTED POWER LINE EMISSION LIMIT

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following :

Frequency (MHz)	Maximum RF Line Voltage (dB μ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

TEST RESULTS

SCAN TABLE: "Voltage (9K-30M) FIN"
 Short Description: 150K-30M Voltage

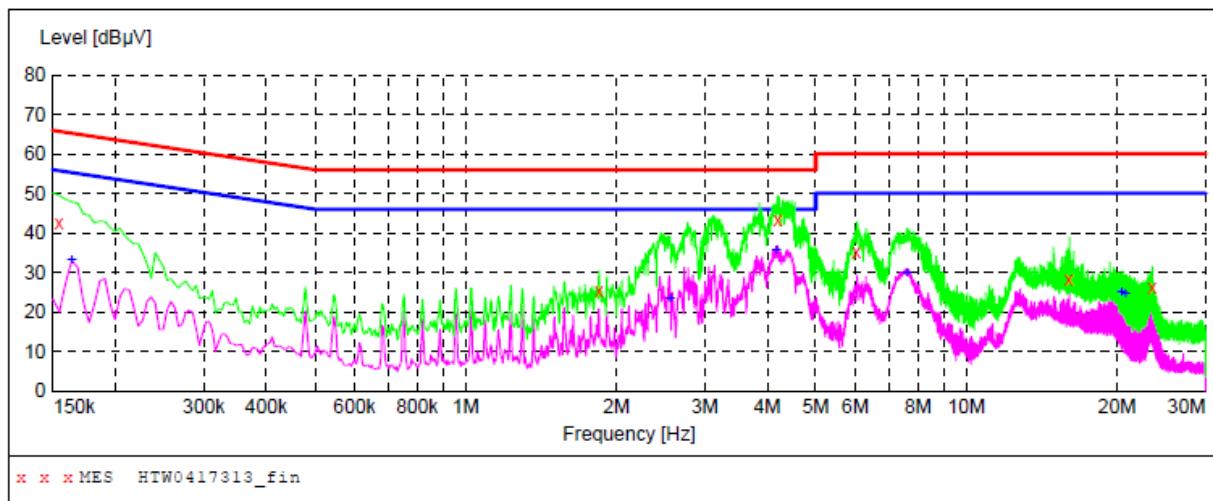
**MEASUREMENT RESULT: "HTW0417312_fin"**

4/17/2013 10:46AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB μ V	dB	dB μ V	dB			
	0.150000	42.80	10.2	66	23.2	QP	L1	GND
	2.116500	26.50	10.2	56	29.5	QP	L1	GND
	4.434000	42.40	10.2	56	13.6	QP	L1	GND
	6.031500	35.60	10.2	60	24.4	QP	L1	GND
	7.557000	33.50	10.3	60	26.5	QP	L1	GND
	16.053000	31.80	10.4	60	28.2	QP	L1	GND

MEASUREMENT RESULT: "HTW0417312_fin2"

4/17/2013 10:46AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB μ V	dB	dB μ V	dB			
	0.204000	31.60	10.2	53	21.8	AV	L1	GND
	2.116500	22.20	10.2	46	23.8	AV	L1	GND
	4.164000	35.70	10.2	46	10.3	AV	L1	GND
	7.642500	29.50	10.3	50	20.5	AV	L1	GND
	12.795000	25.20	10.3	50	24.8	AV	L1	GND
	23.347500	22.40	10.5	50	27.6	AV	L1	GND

SCAN TABLE: "Voltage (9K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "HTW0417313_fin"

4/17/2013 10:50AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB μ V	dB	dB μ V	dB			
	0.154500	42.50	10.2	66	23.3	QP	N	GND
	1.846500	25.30	10.2	56	30.7	QP	N	GND
	4.209000	43.20	10.2	56	12.8	QP	N	GND
	6.036000	35.40	10.2	60	24.6	QP	N	GND
	16.008000	28.30	10.4	60	31.7	QP	N	GND
	23.500500	26.10	10.5	60	33.9	QP	N	GND

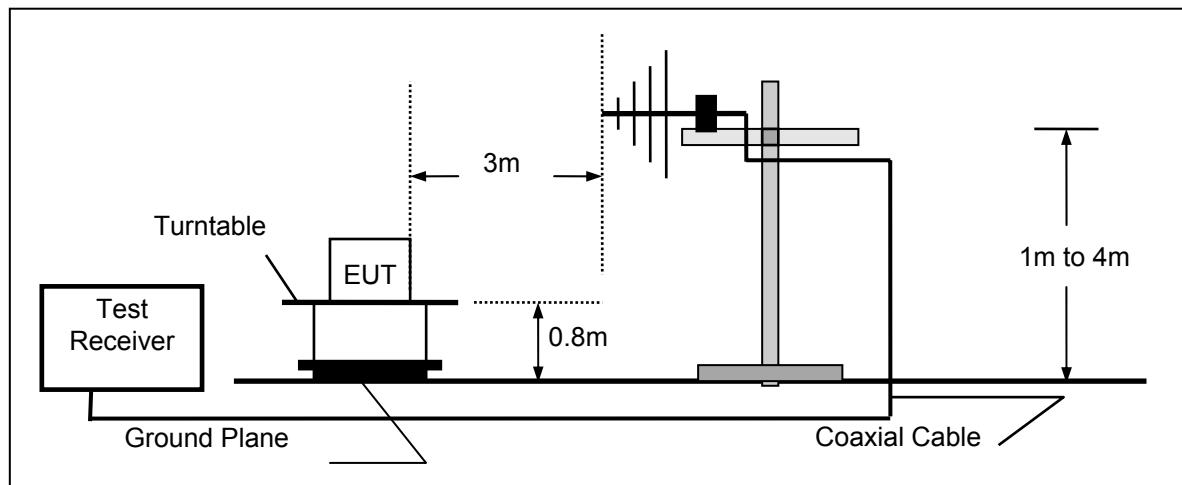
MEASUREMENT RESULT: "HTW0417313_fin2"

4/17/2013 10:50AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB μ V	dB	dB μ V	dB			
	0.163500	33.20	10.2	55	22.1	AV	N	GND
	2.557500	23.40	10.2	46	22.6	AV	N	GND
	4.168500	35.80	10.2	46	10.2	AV	N	GND
	7.597500	29.80	10.3	50	20.2	AV	N	GND
	20.427000	25.10	10.4	50	24.9	AV	N	GND
	20.764500	24.70	10.4	50	25.3	AV	N	GND

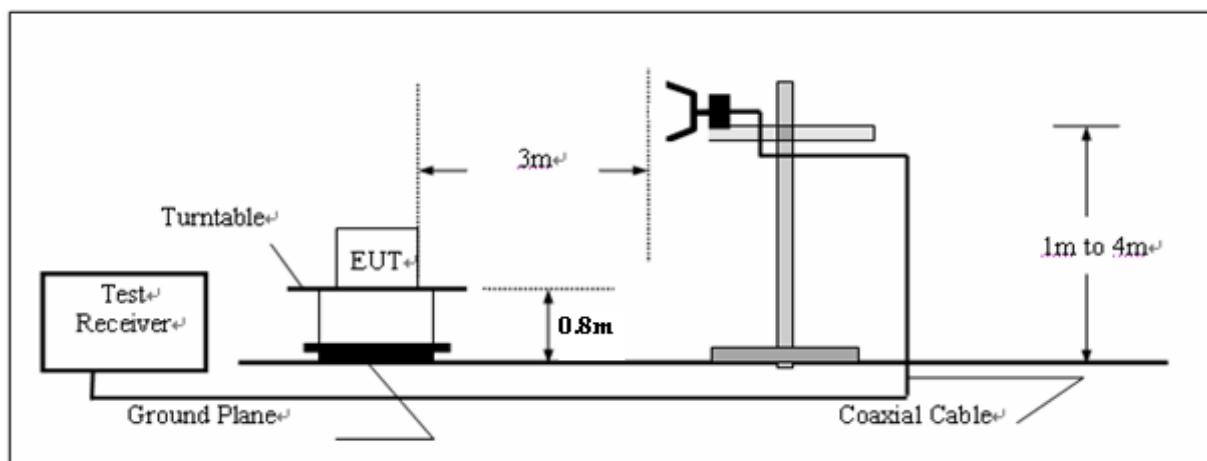
4.2. Radiated Emission Test

TEST CONFIGURATION

a) Radiated Emission Test Set-Up, Frequency below 1000MHz



b) Radiated Emission Test Set-Up, Frequency above 1000MHz



TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The maximum operate frequency was 270MHz, so the radiated emission test range from 30MHz to 6GHz.

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:

$$\mathbf{FS = RA + AF + CL - AG}$$

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

For example

Frequency (MHz)	FS (dB μ V/m)	RA (dB μ V/m)	AF (dB)	CL (dB)	AG (dB)	Transd (dB)
300.00	40	58.1	12.2	1.6	31.90	-18.1

$$\text{Transd} = \text{AF} + \text{CL} - \text{AG}$$

RADIATION LIMIT

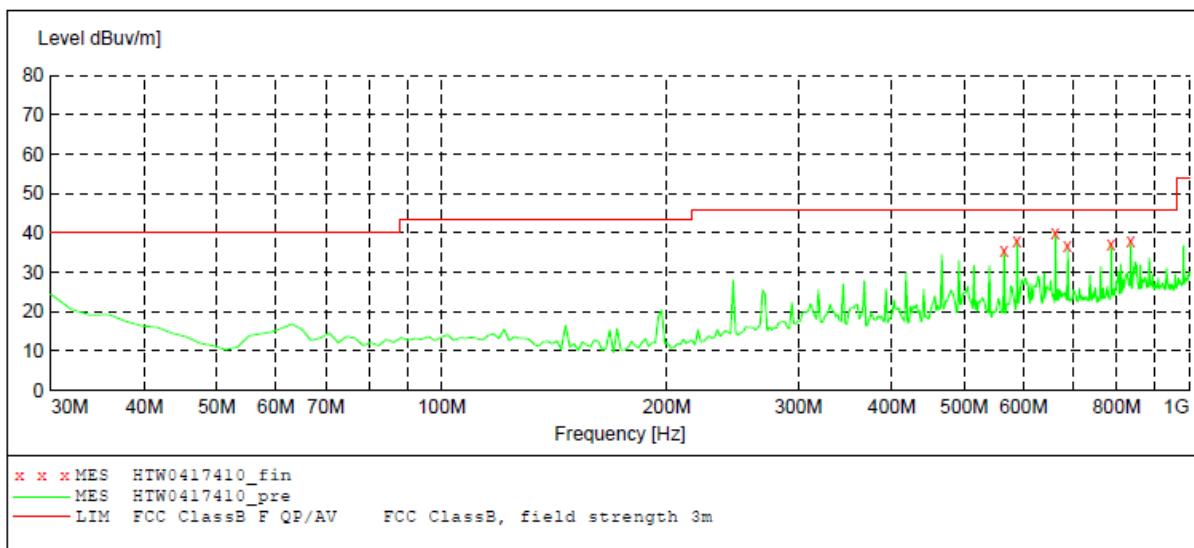
According to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dB μ V/m)	Radiated (μ V/m)
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST RESULTS**30MHz-1GHz**

SWEET TABLE: "test (30M-1G) OP"

Short Description:		Field Strength			
Start Frequency	Stop Frequency	Detector	Meas.	IF	Transducer
30.0 MHz	1.0 GHz	QuasiPeak	1.0s	120 kHz	HL562 201106

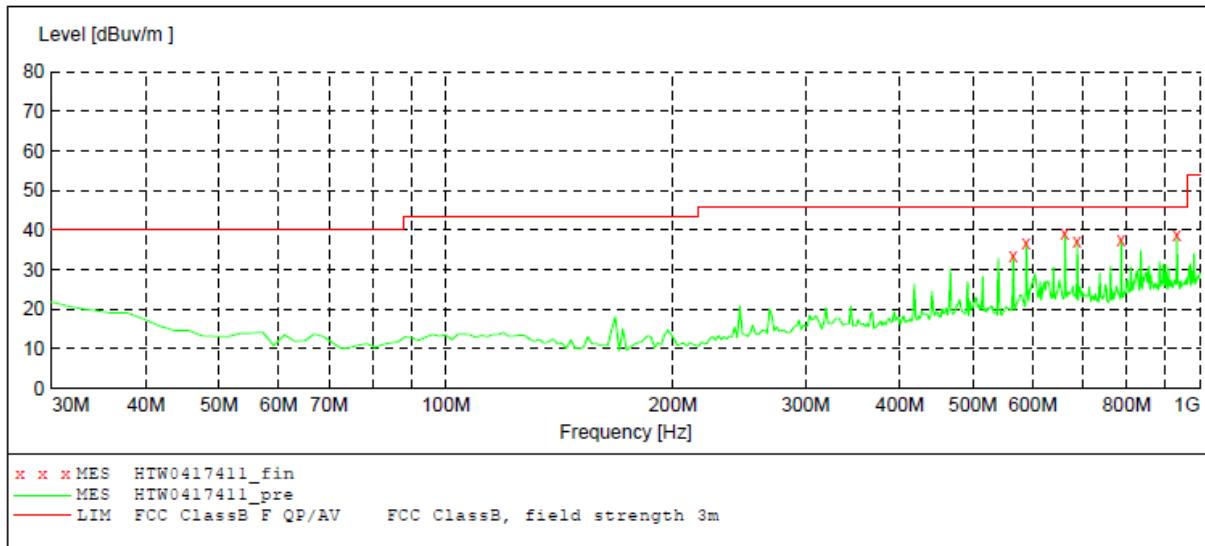
**MEASUREMENT RESULT: "HTW0417410_FIN"**

4/17/2013 9:39AM

Frequency MHz	Level dBuv/m	Transd dB	Limit dBuv/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
565.440000	35.60	-14.8	46.0	10.4	QP	100.0	299.00	HORIZONTAL
588.720000	38.10	-14.6	46.0	7.9	QP	100.0	242.00	HORIZONTAL
662.440000	40.20	-11.2	46.0	5.8	QP	100.0	242.00	HORIZONTAL
687.660000	36.70	-11.3	46.0	9.3	QP	100.0	248.00	HORIZONTAL
786.600000	37.30	-10.8	46.0	8.7	QP	100.0	153.00	HORIZONTAL
835.100000	37.90	-9.6	46.0	8.1	QP	100.0	207.00	HORIZONTAL

SWEET TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
30.0 MHz	1.0 GHz	QuasiPeak	1.0s	120 kHz	HL562 201106

***MEASUREMENT RESULT: "HTW0417411_fin"***

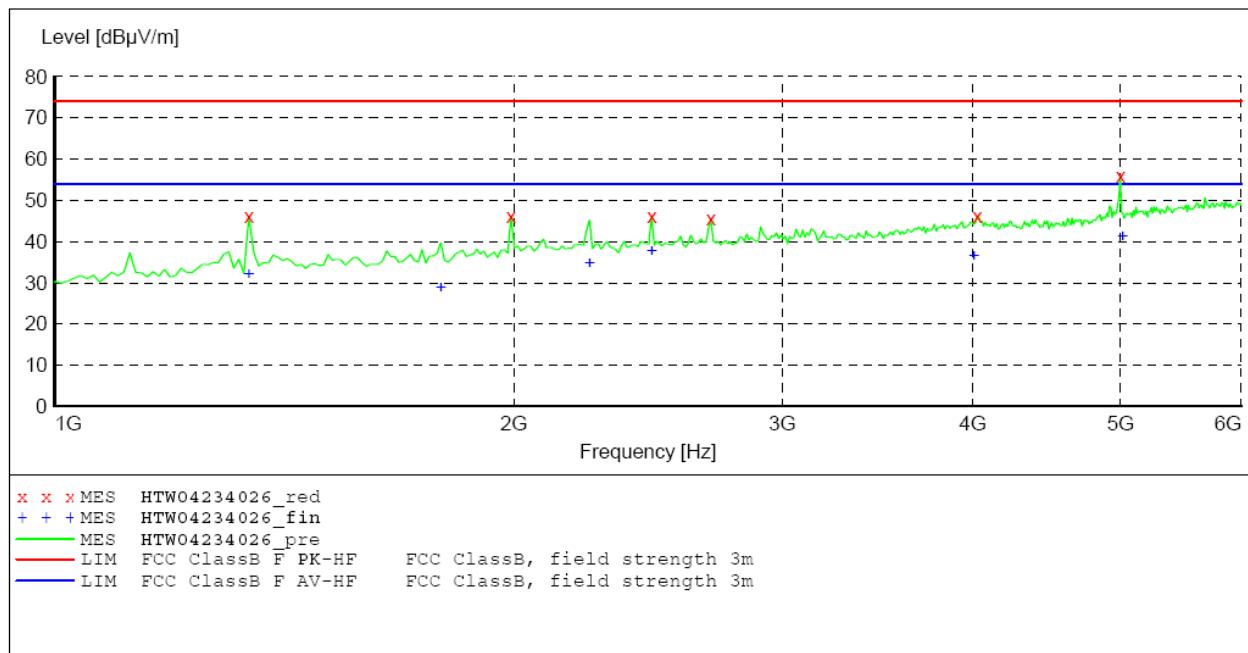
4/17/2013 9:41AM

Frequency MHz	Level dBuv/m	Transd dB	Limit dBuv/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
565.440000	33.40	-14.8	46.0	12.6	QP	100.0	89.00	VERTICAL
588.720000	36.60	-14.6	46.0	9.4	QP	100.0	48.00	VERTICAL
662.440000	39.20	-11.2	46.0	6.8	QP	100.0	22.00	VERTICAL
687.660000	37.20	-11.3	46.0	8.8	QP	100.0	197.00	VERTICAL
786.600000	37.50	-10.8	46.0	8.5	QP	100.0	170.00	VERTICAL
932.100000	38.90	-9.0	46.0	7.1	QP	100.0	349.00	VERTICAL

1GHz-6GHz

SCAN TABLE: "test (1G-18G) P"

Short Description:		FCC PART 15B Field Strength			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	HF906
Average					



MEASUREMENT RESULT: "HTW04234026_red"

8/17/2012 12:59AM

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1340.680000	46.10	-10.7	74.0	27.9	PK	100.0	154.00	HORIZONTAL
1991.980000	46.30	-6.7	74.0	27.7	PK	100.0	187.00	HORIZONTAL
2462.920000	46.10	-4.8	74.0	27.9	PK	100.0	114.00	HORIZONTAL
2693.380000	45.50	-4.1	74.0	28.5	PK	100.0	165.00	HORIZONTAL
4026.050000	46.20	-0.4	74.0	27.8	PK	100.0	171.00	HORIZONTAL
4997.990000	55.90	1.2	74.0	18.1	PK	100.0	124.00	HORIZONTAL

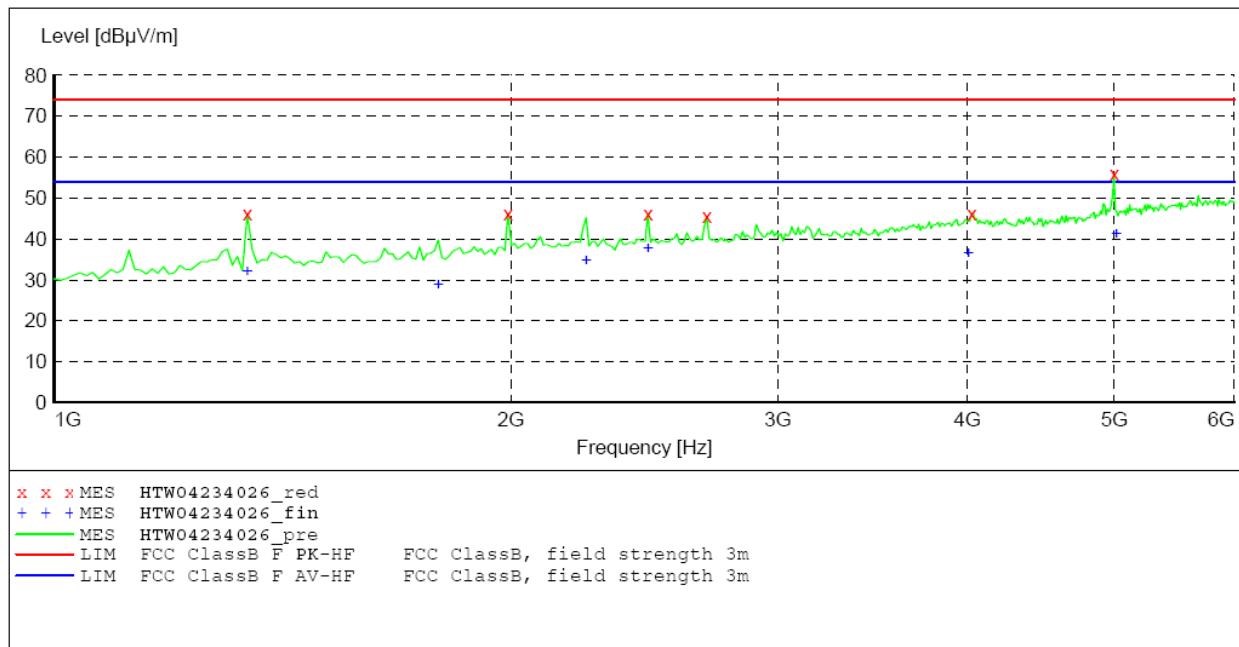
MEASUREMENT RESULT: "HTW04234026_fin"

8/17/2012 12:59AM

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1340.680000	31.90	-10.7	54.0	22.1	AV	100.0	154.00	HORIZONTAL
1791.580000	28.90	-7.9	54.0	25.1	AV	100.0	142.00	HORIZONTAL
2242.480000	34.60	-5.6	54.0	19.4	AV	100.0	225.00	HORIZONTAL
2462.920000	37.50	-4.8	54.0	16.5	AV	100.0	114.00	HORIZONTAL
4006.010000	36.40	-0.4	54.0	17.6	AV	100.0	124.00	HORIZONTAL
4998.230000	41.20	2.3	54.0	12.8	AV	100.0	29.00	HORIZONTAL

SCAN TABLE: "test (1G-18G) P"

Short Description: FCC PART 15B Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906
 Average

**MEASUREMENT RESULT: "HTW04234025_red"**

4/23/2013 12:56AM

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det. PK	Height cm	Azimuth deg	Polarization
1340.680000	44.60	-10.7	74.0	29.4	PK	100.0	219.00	VERTICAL
2002.000000	43.40	-6.6	74.0	30.6	PK	100.0	29.00	VERTICAL
2242.480000	46.00	-5.6	74.0	28.0	PK	100.0	158.00	VERTICAL
2462.920000	45.40	-4.8	74.0	28.6	PK	100.0	172.00	VERTICAL
4076.150000	46.00	-0.4	74.0	28.0	PK	100.0	352.00	VERTICAL
5939.870000	50.80	2.6	74.0	23.2	PK	100.0	245.00	VERTICAL

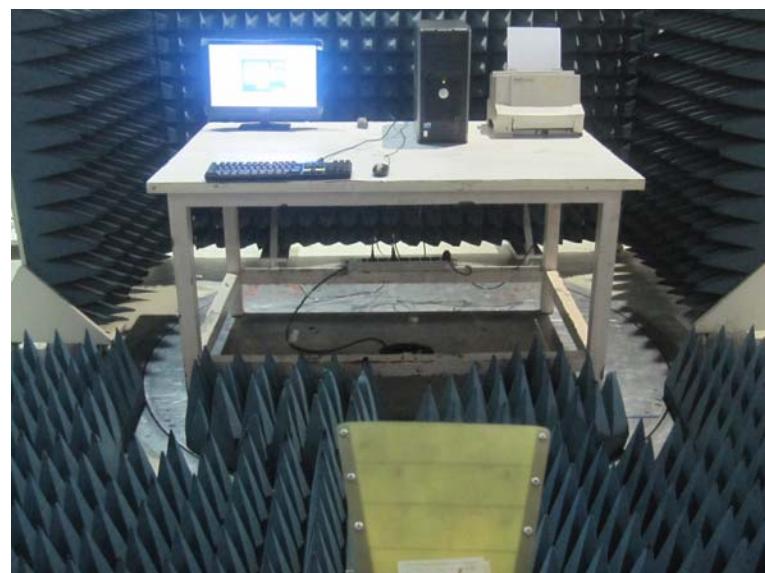
MEASUREMENT RESULT: "HTW04234025_fin"

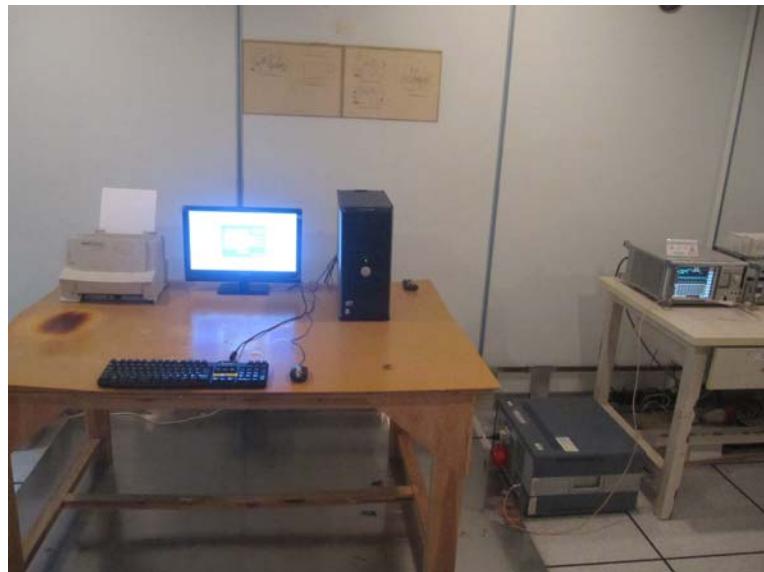
4/23/2013 12:56AM

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det. AV	Height cm	Azimuth deg	Polarization
1280.560000	30.30	-10.9	54.0	23.7	AV	100.0	226.00	VERTICAL
1340.680000	35.60	-10.7	54.0	18.4	AV	100.0	219.00	VERTICAL
2242.480000	31.90	-5.6	54.0	22.1	AV	100.0	69.00	VERTICAL
2462.920000	35.00	-4.8	54.0	19.0	AV	100.0	172.00	VERTICAL
4126.250000	36.20	-0.4	54.0	17.8	AV	100.0	322.00	VERTICAL
5959.910000	41.10	2.6	54.0	12.9	AV	100.0	356.00	VERTICAL

5. Test Setup Photos of the EUT

Test Photos of The EUT

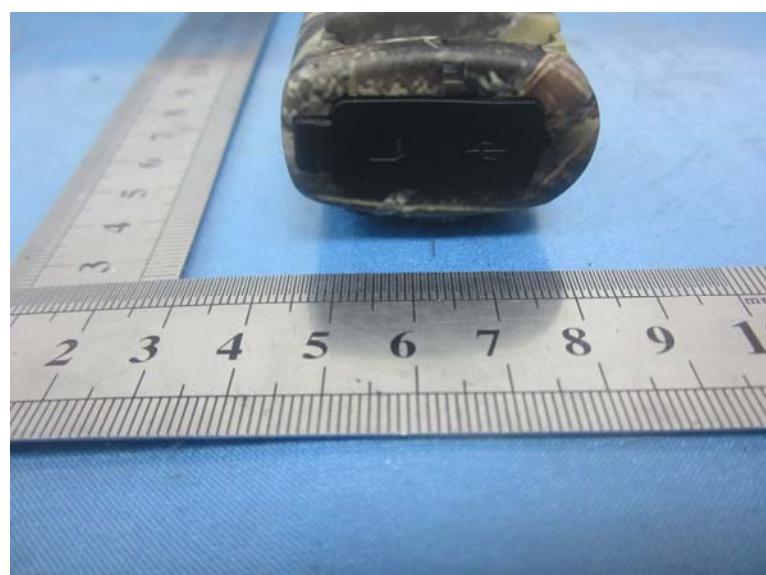




6. External and internal Photos of the EUT

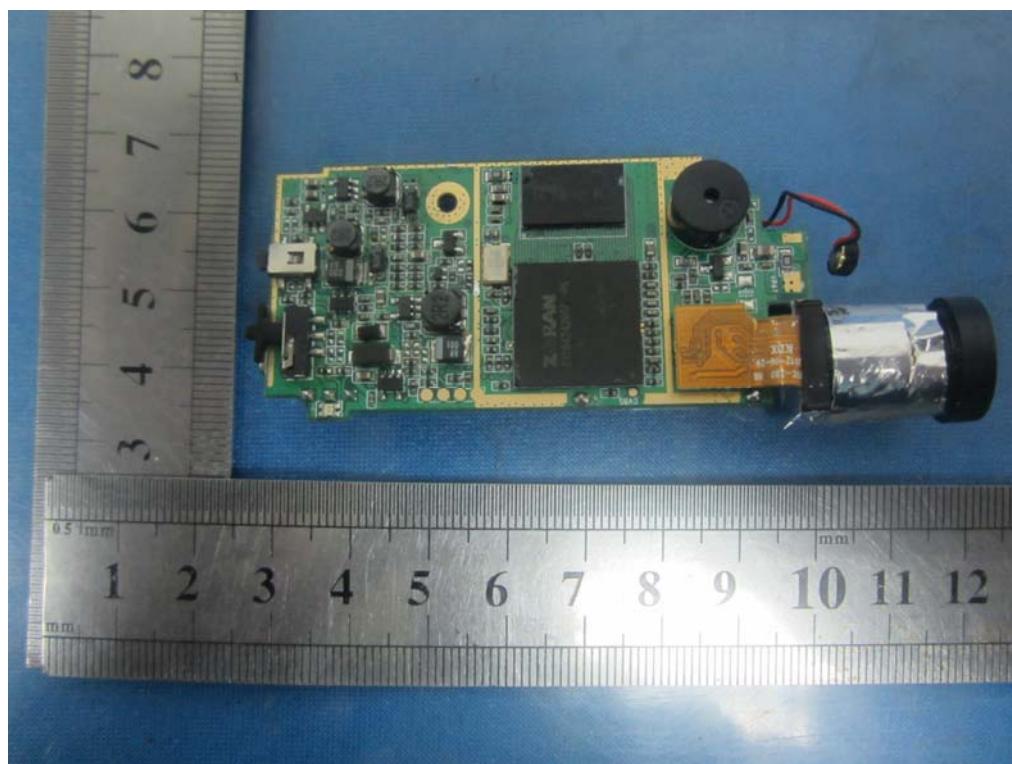
External Photos of The EUT

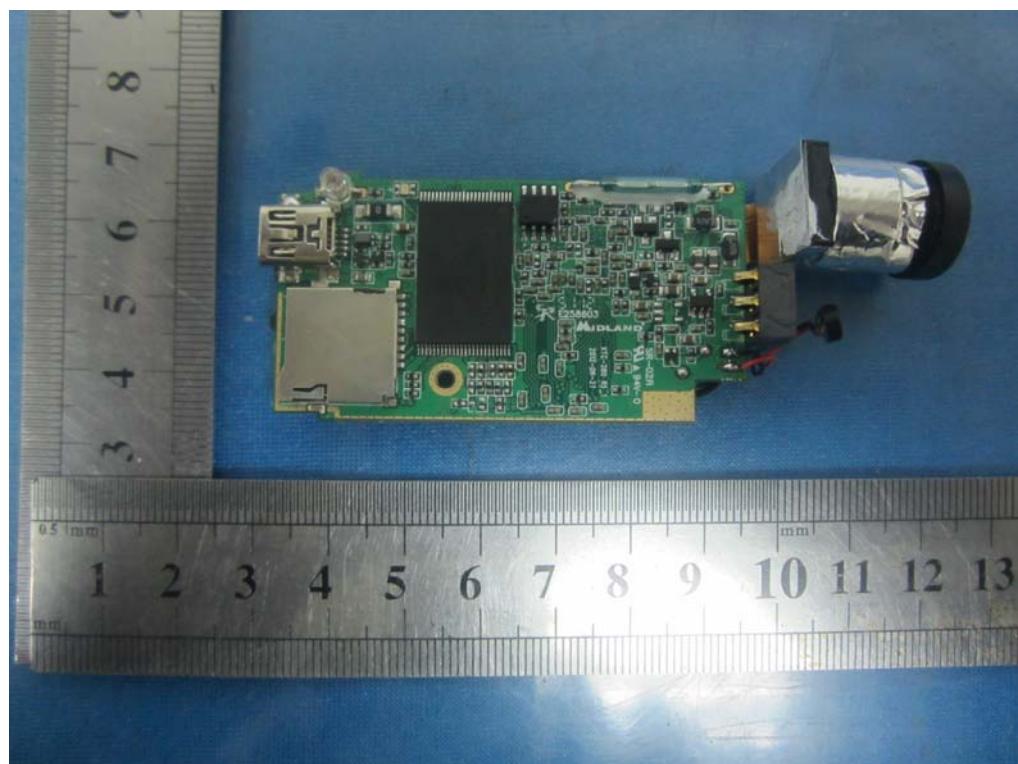






Internal Photos of The EUT







.....End of Report.....