



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

Phone:86-755-26748019 Fax:86-755-26748089 http://www.szhtw.com.cn



yuchao.wang Wention

## FCC PART 15 SUBPART C TEST REPORT

### **FCC PART 15.247**

FCC ID.....: : NMTBPU321

Compiled by

( position+printed name+signature)..: File administrators Jerome Luo

Supervised by

( position+printed name+signature)..: Test Engineer Yuchao Wang

Approved by

( position+printed name+signature)..: Manager Wenliang Li

Date of issue...... Nov 13, 2013

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

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

Applicant's name...... IDT Technology Limited

Address ...... Block C, 9/F Kaiser Estate Phase 1, 41 Man Yue Street, Hung

Hom, Kowloon, Hong Kong

**Test specification:** 

Standard ...... FCC Part 15.247: Operation within the bands 902-928 MHz,

2400-2483.5 MHz and 5725-5850 MHz

TRF Originator...... Shenzhen Huatongwei International Inspection CO., Ltd

Master TRF...... Dated 2006-06

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Test item description ...... Blood Pressure Monitor

Trade Mark .....: /

Model/Type reference...... BPU321
Listed Models ...... BPU329

Manufacturer ...... IDT Technology Limited

Modulation Type ...... GFSK

Operation Frequency...... From 2402MHz to 2480MHz

Result..... Positive

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## TEST REPORT

Test Report No. :	TRE13100049	Nov 13, 2013
rest Report No	IRE13100049	Date of issue

Equipment under Test : Blood Pressure Monitor

Model /Type : BPU321

Listed Models : BPU329

Applicant : IDT Technology Limited

Address : Block C, 9/F Kaiser Estate Phase 1, 41 Man Yue Street, Hung

Hom, Kowloon, Hong Kong

Manufacturer : IDT Technology Limited

Address : Block C, 9/F Kaiser Estate Phase 1, 41 Man Yue Street, Hung

Hom, Kowloon, Hong Kong

<b>Test Result</b> according to the standards on page 4:	Positive
----------------------------------------------------------	----------

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:

<u>FCC Rules Part 15.247</u>: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz. <u>ANSI C63.10-2009</u>: American National Standard for Testing Unlicensed Wireless Devices

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## 2. SUMMARY

## 2.1. General Remarks

Date of receipt of test sample	:	Oct 31, 2013
Testing commenced on	:	Nov 03, 2013
Testing concluded on	:	Nov 13, 2013

## 2.2. Equipment Under Test

## Power supply system utilised

Power supply voltage	:	0	120V / 60 Hz	0	115V / 60Hz
		0	12 V DC	0	24 V DC
		•	Other (specified in blank below)		)

6V ==-,0.7A;or Battery: 1.5V "AA"(LR06) x4

AC Adapter
 MODEL:UE05WCP-060070SPC

INPUT:100-240V~1.2A 50/60Hz

OUTPUT: 6.0V DC 0.7A Power Cable: 180cm

♦ Shielded♦ With core♦ Without core

Battery: 4 x "AA"(LR06)

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

2.4GHz (Blood Pressure Monitor (M/N:BPU321))

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

## 2.4. EUT operation mode

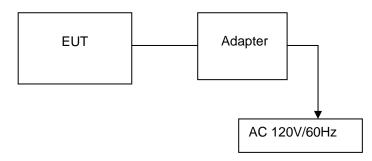
The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing. There are 40 channels of EUT, and the test carried out at the lowest channel, middle channel and highest channel.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468

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14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

## 2.5. Block Diagram of Test Setup



## 2.6. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID:NMTBPU321** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

## 2.7. Modifications

No modifications were implemented to meet testing criteria.

## 2.8. NOTE

1. The EUT is a Blood Pressure Meter with Bluetooth function, The functions of the EUT listed as below:

	Test Standards	Reference Report
Bluetooth	FCC Part 15 Subpart C	TRE13100049

2. The frequency bands used in this EUT are listed as follows:

Frequency Band(MHz)	2400-2483.5	5150-5350	5470-5725	5725-5850
EUT	$\checkmark$	_		_

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## 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 (2009) 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. 01, 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, 2015.

## 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 Jun. 01, 2012, valid time is until Jun. 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.

### VCCI

The 3m Semi-anechoic chamber  $(12.2m\times7.95m\times6.7m)$  and Shielded Room  $(8m\times4m\times3m)$  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. 23, 2013. Valid time is until Dec. 22, 2016.

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, 2013. Valid time is until May 06, 2016.

#### 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, 2016.

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#### 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. Test Description

FCC PART 15 15.247		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.109/ 15.205/ 15.209	Radiated Emissions	PASS

Remark: The measurement uncertainty is not included in the test result.

## 3.5. 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 Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	1.60 dB	(1)
Radiated spurious emission 9KHz-40 GHz	2.20 dB	(1)
Conducted Emission 9KHz-30MHz	3.39 dB	(1)
Radiated Emission 30~1000MHz	4.24 dB	(1)
Radiated Emissio 1~18GHz	5.16 dB	(1)
Radiated Emissio 18-40GHz	5.54 dB	(1)
Occupied Bandwidth		(1)

<sup>(1)</sup> This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

## 3.6. Equipments Used during the Test

AC Po	AC Power Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.		
1	Artificial Mains	Rohde&Schwarz	ESH2-Z5	100028	2013/10/26		
2	EMI Test Receiver	Rohde&Schwarz	ESCI3	100038	2013/10/26		
3	Pulse Limiter	Rohde&Schwarz	ESHSZ2	100044	2013/10/26		
4	EMI Test Software	Rohde&Schwarz	ES-K1 V1.71	N/A	N/A		

Radia	Radiated Emission							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.			
1	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2013/10/26			
2	EMI TEST RECEIVER	Rohde&Schwarz	ESI 26	100009	2013/10/26			
3	EMI TEST OFTWARE	Audix	E3	N/A	N/A			
4	TURNTABLE	ETS	2088	2149	N/A			
5	ANTENNA MAST	ETS	2075	2346	N/A			
6	EMI TEST OFTWARE	Rohde&Schwarz	ESK1	N/A	N/A			

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7	HORN ANTENNA	ShwarzBeck	9120D	1011	2013/10/26
8	Amplifer	Sonoma	310N	E009-13	2013/10/26
9	JS amplifer	Rohde&Schwarz	JS4-00101800- 28-5A	F201504	2013/10/26
10	High pass filter Compliance Direction systems		BSU-6	34202	2013/10/26
11	HORN ANTENNA	ShwarzBeck	9120D	1012	2013/10/26
12	Amplifer	Compliance Direction systems	PAP1-4060	120	2013/10/26
13	Loop Antenna	Rohde&Schwarz	HFH2-Z2	100020	2013/10/26
14	TURNTABLE	MATURO	TT2.0		N/A
15	ANTENNA MAST	MATURO	TAM-4.0-P		N/A
16	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2013/10/26

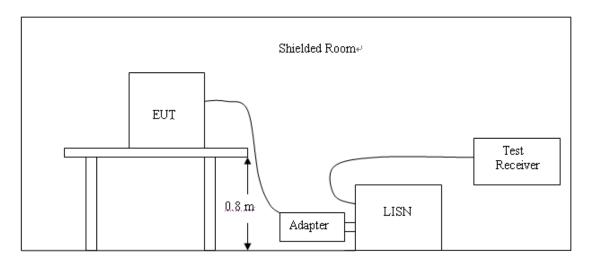
The Cal.Interval was one year

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## 4. TEST CONDITIONS AND RESULTS

#### 4.1. AC Power Conducted Emission

### **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 C63.10-2009.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2009
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2009
- 4 The EUT received DC5V power from PC, the adapter of PC 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.

## **AC Power Conducted Emission Limit**

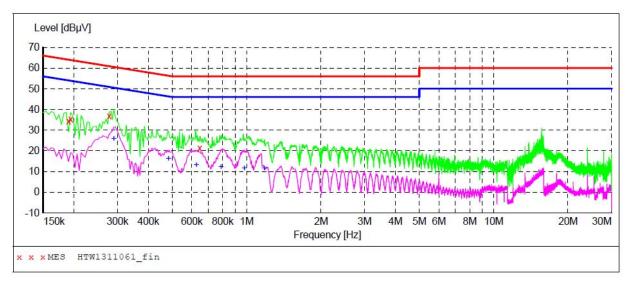
For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following:

Fraguenov	Maximum RF Line Voltage (dΒμV)						
Frequency (MHz)	CLA	SS A	CLASS B				
(IVITIZ)	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			

<sup>\*</sup> Decreasing linearly with the logarithm of the frequency

#### **TEST RESULTS**

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



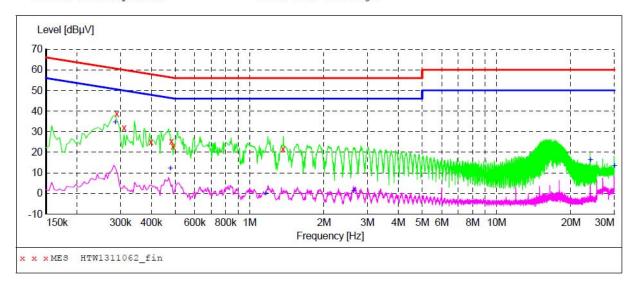
## MEASUREMENT RESULT: "HTW1311061 fin"

11/13/	2013 9:	03AM						
Fre	quency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.	190000	34.20	12.1	64	29.8	QP	L1	GND
0.	194000	35.40	12.0	64	28.5	QP	L1	GND
0.3	278000	36.90	11.0	61	24.0	QP	L1	GND
0.	646000	21.30	10.4	56	34.7	QP	L1	GND

## MEASUREMENT RESULT: "HTW1311061 fin2"

11/13/2013 9 Frequency MHz	:03AM Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.290000	25.80	10.9	51	24.7	AV	L1	GND
0.482000	16.20	10.4	46	30.1	AV	L1	GND
0.626000	13.10	10.4	46	32.9	AV	L1	GND
0.786000	12.30	10.4	46	33.7	AV	L1	GND
0.978000	11.80	10.5	46	34.2	AV	L1	GND
1.178000	11.70	10.6	46	34.3	AV	L1	GND

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



## MEASUREMENT RESULT: "HTW1311062\_fin"

1	1/13/2013 9:	09AM						
	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
	0.290000	38.70	10.9	61	21.8	QP	N	GND
	0.310000	32.00	10.8	60	28.0	QP	N	GND
	0.398000	25.00	10.6	58	32.9	QP	N	GND
	0.482000	25.40	10.4	56	30.9	QP	N	GND
	0.490000	22.90	10.4	56	33.3	QP	N	GND
	1.366000	21.70	10.5	56	34.3	QP	N	GND

## MEASUREMENT RESULT: "HTW1311062\_fin2"

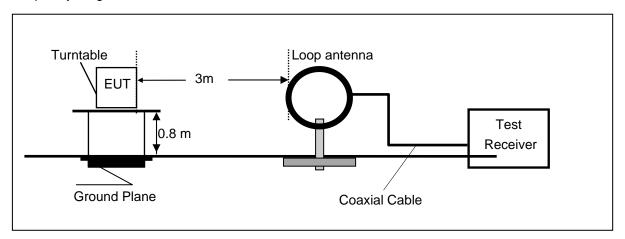
11/13/2013 9	:09AM						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.286000	34.60	10.9	51	16.0	AV	N	GND
0.478000	12.40	10.4	46	34.0	AV	N	GND
1.162000	0.30	10.6	46	45.7	AV	N	GND
2.638000	1.40	10.5	46	44.6	AV	N	GND
23.978000	16.30	11.1	50	33.7	AV	N	GND
29.970000	13.50	11.3	50	36.5	AV	N	GND

## 4.2. Radiated Emission

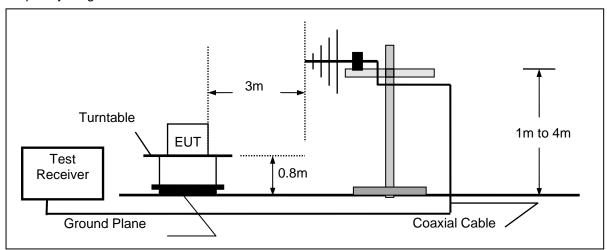
## **TEST CONFIGURATION**

Radiated Emission Test Set-Up

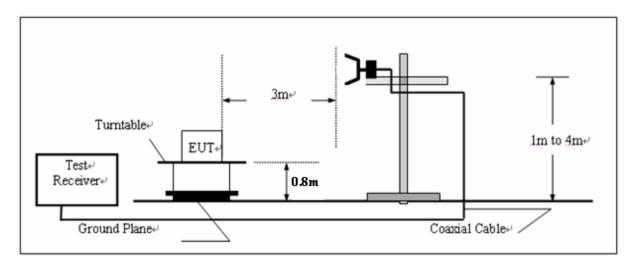
Frequency range 9KHz - 30MHz



Frequency range 30MHz - 1000MHz



Frequency range above 1GHz-25GHz



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### **TEST PROCEDURE**

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from  $0^{\circ}$ C to acquire the highest emissions from EUT
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed.

#### **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:

#### 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	FS	RA	AF	CL	AG	Transd
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300.00	40	58.1	12.2	1.6	31.90	

Transd=AF +CL-AG

#### RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the100kHz bandwidth within the band that contains the highest level of desired power.

The frequency spectrum above 1 GHz for Transmitter was investigated. All emission not reported are much lower than the prescribed limits. Set the RBW=1MHz,VBW=3MHz for Peak Detector while the RBW=1MHz,VBW=10Hz for Average Detector,Readings are both peak and average values. The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/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**

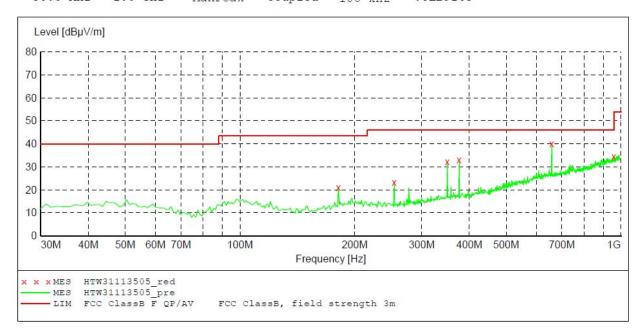
Remark: 1. We tested three positions and recorded worst case.

#### For 9KHz to 30MHz

Frequency (MHz)	Corrected Reading (dBµV/m)@3m	FCC Limit (dBµV/m) @3m	Margin (dB)	Detector	Result
0.45	52.35	71.21	18.86	QP	PASS
1.42	53.36	63.05	9.69	QP	PASS
17.68	53.65	69.54	15.89	QP	PASS
20.68	55.38	69.54	14.16	QP	PASS

### For 30MHz to 1000MHz

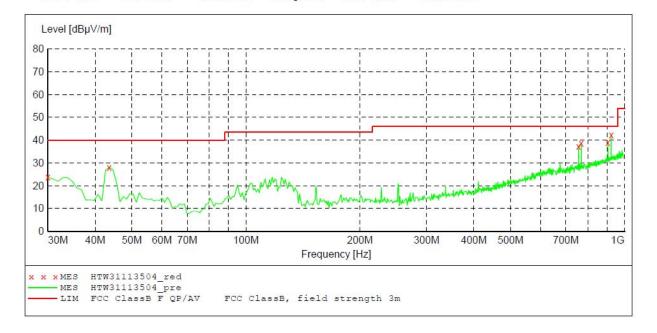
SWEEP TABLE: "test (30M-1G)"
Short Description: Fi Field Strength Detector Meas. IF Time Bandw. Transducer Start Stop Frequency Frequency 30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz VULB9163



## MEASUREMENT RESULT: "HTW31113505 red"

11	/13/2013 1:	:54PM							
	Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
	181.320000	21.10	-15.8	43.5	22.4	PK	100.0	24.00	HORIZONTAL
	254.070000	23.40	-15.7	46.0	22.6	PK	100.0	24.00	HORIZONTAL
	350.100000	32.30	-12.1	46.0	13.7	PK	300.0	357.00	HORIZONTAL
	376.290000	33.20	-11.5	46.0	12.8	PK	100.0	24.00	HORIZONTAL
	658.560000	40.00	-2.3	46.0	6.0	PK	100.0	24.00	HORIZONTAL
	958.290000	34.50	3.5	46.0	11.5	PK	300.0	347.00	HORIZONTAL

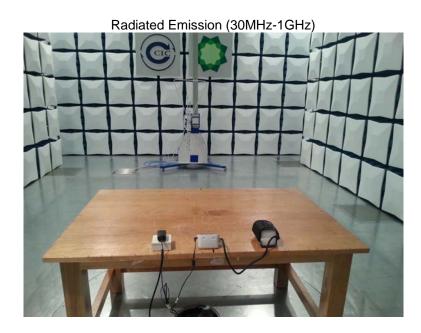
SWEEP TABLE: "test (30M-1G)"
Short Description: Fig. Field Strength Detector Meas. IF Time Bandw. Start Transducer Stop Frequency Frequency 30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz VULB9163

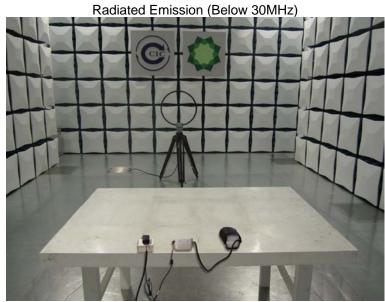


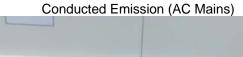
## MEASUREMENT RESULT: "HTW31113504 red"

11/13/2013 1:	47PM							
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	23.80	-16.4	40.0	16.2	PK	100.0	174.00	VERTICAL
43.580000	28.10	-15.0	40.0	11.9	PK	100.0	63.00	VERTICAL
756.530000	37.20	-0.2	46.0	8.8	PK	100.0	76.00	VERTICAL
769.140000	38.60	-0.1	46.0	7.4	PK	100.0	63.00	VERTICAL
903.970000	38.90	2.6	46.0	7.1	PK	100.0	76.00	VERTICAL
922.400000	42.30	3.1	46.0	3.7	PK	100.0	63.00	VERTICAL

# 5. Test Setup Photos of the EUT









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# 6. External Photos of the EUT





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