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Jackychen Lung Gri Lung Gri

## FCC PART 15 SUBPART B TEST REPORT

## FCC Part 15B

Report Reference No...... CTL1306281042-WD

Compiled by

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Name of the organization performing

the tests

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Approved by

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Date of issue...... August 15, 2013

Representative Laboratory Name .: Shenzhen CTL Electromagnetic Technology Co., Ltd.

Address...... Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road,

Nanshan District, Shenzhen, China 518055

Test Firm...... Bontek Compliance Testing Laboratory Ltd

Nanshan, Shenzhen, China

Applicant's name...... SHENZHEN GOLD EAST ELETRONIC CO., LTD

District, Shenzhen, China 518000

Test specification:

Standard ...... FCC Part 15B: Unintentional Radiators

Master TRF...... Dated 2011-01

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Test item description .....: Tablet PC

FCC ID...... 2AANTL001-30

Trade Mark .....:

L002-9S, L097-5S, L010-13S, L011-1S, L013-3S, L001-40, L001-40S, L002-10, L002-10S, L097-6, L097-6S, L010-16, L010-16S.

L011-2. L011-2S

I/O Type of EUT...... USB Port/ Earphone Port/HDMI Port/TF Card Port/SIM Card Port

I/O Q'TY...... 1/1/1/1/1

**GSM/WCDMA** 

Transmit .....: 2G:GSM 850: 824~849MHz. PCS 1900: 1850~1910MHz 3G:WCDMA Band II: 1850-1910MHz, WCDMA Band V: 824~849MHz 2G:GSM 850: 869~894MHz, PCS 1900: 1930~1990MHz Receive .....: 3G:WCDMA Band II: 1930~1990MHz, WCDMA Band V: 869~894MHz Release Version .....: 2G:R99 3G:UMTS FDD: Rel-5 Type of modulation .....: 2G: GMSK for GSM/GPRS/EDGE 3G: QPSK GPRS Type ...... Class B GPRS Class .....: Class 12 **GPS** work frequency .....: 1575.42MHz Type of modulation ..... BPSK **Bluetooth** Work frequency ...... 2402~2480MHz Version....: Type of modulation .....: **FHSS** Data Rate....: 1Mbps(GFSK), 2Mbps(Pi/4 DQPSK), 3Mbps(8DPSK) Wi-Fi 802.11n(40MHz):2422~2452 Type of modulation .....: 802.11b DSSS, 802.11g/n: OFDM Data Rate..... 802.11b: 1/2/5.5/11 Mbps 802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11n: up to 150 Mbps -0.5 dBi for GSM850 and WCDMA Band V Antenna Gain ..... -1.0 dBi for PCS1900 and WCDMA Band II -2.0 dBi for Bluetooth and Wi-Fi Antenna type ...... Internal IMEI .....: 357619049208958 Result....: **Positive** 

V1.0 Page 3 of 30 Report No.: CTL1306281042-WD

## TEST REPORT

Test Penort No :	CTL1306281042-WD	August 15, 2013
Test Report No. :	G1E1300201042-WD	Date of issue

Equipment under Test : Tablet PC

Model /Type : L001-30

Listed Models : L002-6, L097-5, L010-13, L011-1, L001-30S, L002-6S,

L002-9S, L097-5S, L010-13S, L011-1S, L013-3S, L001-40, L001-40S, L002-10, L002-10S, L097-6, L097-6S, L010-16,

L010-16S, L011-2, L011-2S

**Difference Description** Only the model's name is different

Applicant : SHENZHEN GOLD EAST ELETRONIC CO., LTD

Address : 6F, Bldg #11, Yusheng Industry Area, #467 Gushu,

Xixiang, Bao'an District, Shenzhen, China 518000

Manufacturer SHENZHEN GOLD EAST ELETRONIC CO., LTD

Address 6F, Bldg #11, Yusheng Industry Area, #467 Gushu, Xixiang, Bao'an District, Shenzhen, China 518000

Test Result according to the standards on page 5:

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.

## **Contents**

1. TEST STANDARDS	<u></u> 5
	_
2. SUMMARY	<u>6</u>
2.1. General Remarks	6
2.2. Equipment Under Test	6
2.3. Short description of the Equipment under Test (EUT)	6
2.4. EUT operation mode	6
2.5. EUT configuration	
2.6. Related Submittal(s) / Grant (s)	
2.7. Modifications	7
3. TEST ENVIRONMENT	8
	_
3.1. Address of the test laboratory	8
3.2. Test Facility	8
3.3. Environmental conditions	
3.4. Configuration of Tested System	8
3.5. Statement of the measurement uncertainty	9
3.6. Equipments Used during the Test	9
3.8. Test Software	10
3.0. Test Sultware	IV
4. TEST CONDITIONS AND RESULTS	<u>11</u>
4.1. Conducted Emissions Test	11
4.2. Radiated Emissions Test	16
4.2. Naulateu Liilissiotis Test	
5	
5. TEST SETUP PHOTOS OF THE EUT	<u>20</u>
6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT	24
Omagnetic	
Mayrio	

# 1. TEST STANDARDS

The tests were performed according to following standards:

FCC Part 15B: Unintentional Radiators

**ANCI C63.4: 2003** 



V1.0 Page 6 of 30 Report No.: CTL1306281042-WD

## 2. SUMMARY

#### 2.1. General Remarks

Date of receipt of test sample : July 22, 2013

Testing commenced on : July 22, 2013

Testing concluded on : August 15, 2013

## 2.2. Equipment Under Test

## Power supply system utilised

Power supply voltage : ● 120V / 60 Hz o 115V / 60Hz o 12 V DC o 24 V DC

Other (specified in blank below)

DC 3.7V from battery

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

The device is a Tablet PC.

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

Serial number: Prototype

## 2.4. EUT operation mode

Test Mode(TM)	Description	Remark				
TM1	HDMI Playing	1KHz Audio, Connect to TV by				
	A CO	HDMI Cable				
TM2	MP3 Playing	1KHz Audio				
TM3	Downloading	Connect to PC				
TM4	Charging	Charged by Adapter				
Madiles						

The field strength of radiation emission was measured in the following position: EUT stand-up position (Y axis), lie-down position (X, Z axis).

The following data show only with the worst case setup.

The worst case of Y axis was reported.

Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report.

The worst case of AC Conducted Emission isTM1; the test data of this mode was reported.

## 2.5. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

#### **Cable List and Details**

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
USB Cable	0.8	Unshielded	Without Core
Earphone Cable	1.5	Unshielded	Without Core
HDMI Cable	0.8	Unshielded	Without Core

V1.0 Page 7 of 30 Report No.: CTL1306281042-WD

O - supplied by the manufacturer

supplied by the lab

● Notebook PC Manufacturer : lenovo

Model No.: E43L

● TV Manufacturer : SHARP

Model No.: LCD-26Z100A

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

This submittal(s) (test report) is intended for FCC ID: **2AANTL001-30** filing to comply with of the FCC Part 15B Rules.

## 2.7. Modifications

No modifications were implemented to meet testing criteria.



V1.0 Report No.: CTL1306281042-WD Page 8 of 30

## 3. TEST ENVIRONMENT

## 3.1. Address of the test laboratory

Bontek Compliance Testing Laboratory Ltd 1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China

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:

## IC Registration No.: 7631A

The 3m alternate test site of Bontek Compliance Testing Laboratory Ltd EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 7631A on March, 2011.

## FCC-Registration No.: 338263

Bontek Compliance Testing Laboratory 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 338263, March 24, 2008.

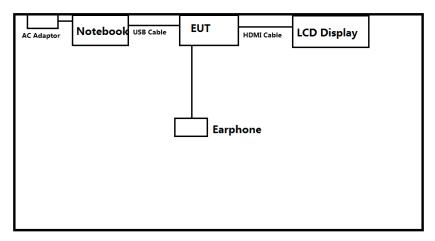
#### 3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges

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

## 3.4. Configuration of Tested System

Fig. 2-1 Configuration of Tested System



V1.0 Page 9 of 30 Report No.: CTL1306281042-WD

## 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 Bontek Compliance Testing Laboratory 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 Bontek laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10dB	(1)
Radiated Emission	1~12.75GHz	4.32dB	(1)
Conducted Disturbance	0.15~30MHz	3.20dB	(1)

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

## 3.6. Equipments Used during the Test

Item	Test Equipment	Manufacturer	Model No.	Last Cal.	Due. Date
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	2013/04/14	2014/04/13
2	Radio Communication Tester	ROHDE & SCHWARZ	CMU200	2013/04/14	2014/04/13
3	Dual Directional Coupler	Agilent	778D	2013/04/14	2014/04/13
4	10dB attenuator	SCHWARZBECK	MTAIMP-136	2013/04/14	2014/04/13
5	Tunable Bandreject filter	K&L	3TNF-800	2013/04/14	2014/04/13
6	Tunable Bandreject filter	K&L	5TNF-1700	2013/04/14	2014/04/13
7	High-Pass Filter	K&L	9SH10- 2700/X12750- O/O	2013/04/14	2014/04/13
8	High-Pass Filter	K&L	41H10- 1375/U12750- O/O	2013/04/14	2014/04/13
9	Coaxial Cable	Huber+Suhner	AC4-RF-H	2013/04/14	2014/04/13
10	AC Power Supply	IDRC	CF-500TP	2013/04/14	2014/04/13
11	DC Power Supply	IDRC	CD-035-020PR	2013/04/14	2014/04/13
12	RF Current Probe	FCC	F-33-4	2013/04/14	2014/04/13
13	Temperature /Humidity Meter	zhicheng	ZC1-2	2013/04/14	2014/04/13
14	MICROWAVE AMPLIFIER	HP	8349B	2013/04/14	2014/04/13
15	Amplifier	HP	8447D	2013/04/14	2014/04/13
16	SIGNAL GENERATOR	HP	8647A	2013/04/14	2014/04/13
17	Log Periodic Antenna	ELECTRO-METRICS	EM-6950	2013/04/14	2014/04/13
18	Horn Antenna	Schwarzbeck	BBHA9120A	2013/04/14	2014/04/13
19	EMI Test Receiver	R&S	ESPI	2013/04/14	2014/04/13
20	Loop Antenna	ZHINAN	ZN30900A	2013/04/14	2014/04/13
21	Horn Antenna	Schwarzbeck	BBHA9120D	2013/04/14	2014/04/13
22	Horn Antenna	Schwarzbeck	BBHA9170	2013/04/14	2014/04/13

## 3.7. Summary of Test Result

No deviations from the test standards

Test Item	Test Requirement	Standard Paragraph	Result
Radiated Emission	FCC PART 15	Section 15.109	PASS
Conducted Emission	FCC PART 15	Section 15.107	PASS

## 3.8. Test Software

The following programs installed in the EUT were programmed during the test.

- 1. Execute the program, "Winthrax", installed in PC for files transfer with EUT via USB cable.
- 2. Turn on camera to capture images.

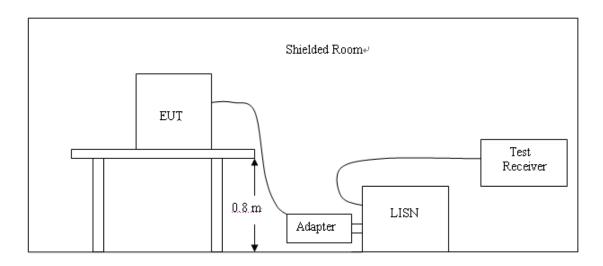


V1.0 Page 11 of 30 Report No.: CTL1306281042-WD

## 4. TEST CONDITIONS AND RESULTS

#### 4.1. Conducted Emissions Test

### **TEST CONFIGURATION**



#### **TEST PROCEDURE**

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

Frequency (MHz)	Maximum RF Line Voltage (dΒμν)					
	CLA	SS A	CLASS B			
(**** 12)	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

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

- 1. Please follow the guidelines in ANSI C63.4-2003.
- 2. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 4. All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 6. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 7. Both sides of AC line were checked for maximum conducted interference.
- 8. The frequency range from 150 kHz to 30 MHz was searched.
- 9. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

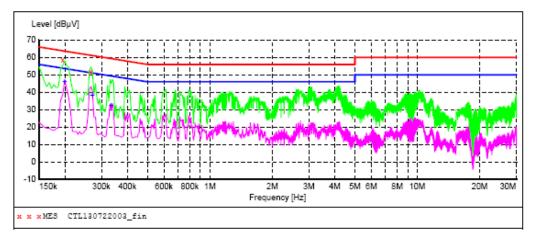
The RBW/VBW for 150KHz to 30MHz: 9KHz

V1.0 Page 12 of 30 Report No.: CTL1306281042-WD

### **TEST RESULTS**

### TM4:

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



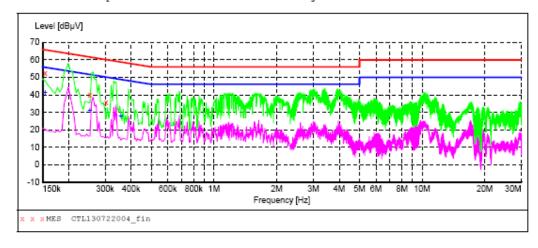
## MEASUREMENT RESULT: "CTL130722003\_fin"

7/22/2013 2:3 Frequency MHz			Limit dBµV	Margin dB	Detector	Line	PE
0.195000	58.40	9.8	64	5.4		N	GND
0.267000	51.70	9.8	61	9.5		N	GND

### MEASUREMENT RESULT: "CTL130722003\_fin2"

7/22/2013 2: Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.199500 0.271500 0.334500	46.70 38.60 33.00	9.8 9.8 9.8	54 51 49	6.9 12.5 16.3		N N N	GND GND GND
	17	Flecti	oma	agne	ticTe	chine	5

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



### MEASUREMENT RESULT: "CTL130722004 fin"

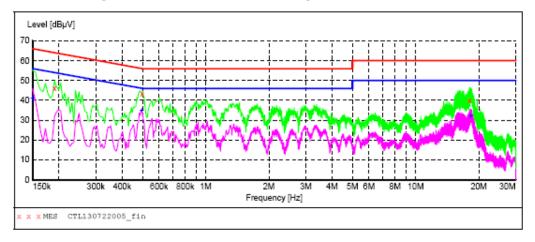
7	/22/2013 2:4	1PM						
	Frequency MHz	Level dBµV		Limit dBµV	Margin dB	Detector	Line	PE
	0.154500	52.60	9.8	66	13.2	QP	Ll	GND
	0.253500	40.10	9.8	62	21.5	QP	Ll	GND
	0.303000	35.60	9.8	60	24.6	QP	L1	GND

## MEASUREMENT RESULT: "CTL130722004\_fin2"

7/22/2013 2:4 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE	
0.154500 0.253500 0.357000	41.80 31.30 28.40	9.8 9.8 9.8	56 52 49	14.0 20.3 20.4	AV	L1 L1 L1	GND GND GND	

#### **TM1:**

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



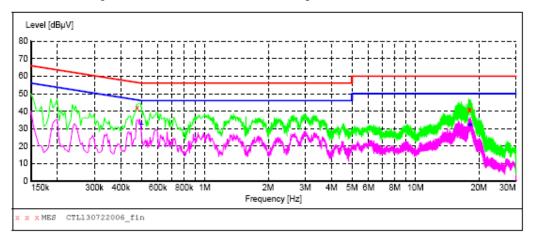
## MEASUREMENT RESULT: "CTL130722005 fin"

7/22/2013 2	2:44PM						
Frequency MH:	y Level z dBµV		Limit dBµV	Margin dB	Detector	Line	PE
0.190500	45.90	9.8	64	18.1	QP	Ll	GND
0.496500	43.40	9.8		12.7	QP	Ll	GND
18.060000	40.10	10.4	60	19.9	QP	Ll	GND

### MEASUREMENT RESULT: "CTL130722005\_fin2"

7/22/2013 2:4 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE	
0.150000 0.496500 18.325500	41.60 35.10 32.60	9.8 9.8 10.4	56 46 50	14.4 11.0 17.4	AV AV AV	L1 L1 L1	GND GND GND	
	IN CITY	Pecti	oma	agne	ticTe	Chic	160/0	

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



## MEASUREMENT RESULT: "CTL130722006 fin"

7/22/2013 2:4	7PM						
Frequency MHz	Level dBµV		Limit dBµV	Margin dB	Detector	Line	PE
0.478500	41.90	9.8	56	14.5	QP	N	GND
17.943000	40.60	10.4	60	19.4	QP	N	GND
18.127500	40.80	10.4	60	19.2	QP	N	GND

## MEASUREMENT RESULT: "CTL130722006\_fin2"

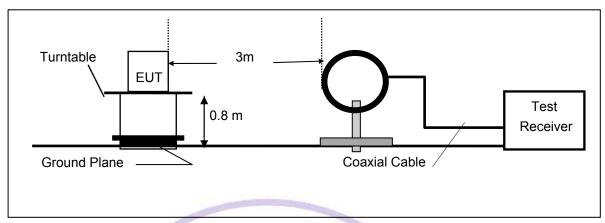
7/22/2013 2: Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE	
0.501000 18.190500 18.240000	32.50 32.60 32.40	9.8 10.4 10.4	46 50 50	13.5 17.4 17.6	AV	N N	GND GND GND	

V1.0 Page 16 of 30 Report No.: CTL1306281042-WD

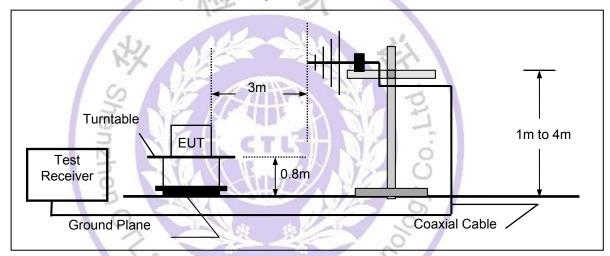
## 4.2. Radiated Emissions Test

## **TEST CONFIGURATION**

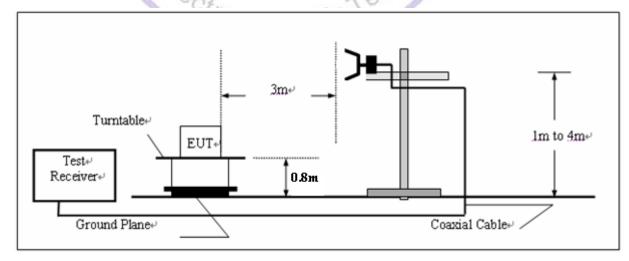
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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



#### LIMIT

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

#### 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:

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

#### **TEST PROCEDURE**

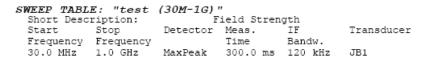
- 1. The testing follows the guidelines in ANSI C63.4-2003.
- 2. The EUT was placed on a turn table which is 0.8m above ground plane.
- 3. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from  $0^{\circ}$ C to 360°C to acquire the highest emissions from EUT
- 4. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 5. Repeat above procedures until all frequency measurements have been completed.
- 6. Based on the Frequency Generator in the device include 32KHz, 19.2MHz, and the speed of CPU is 1G, so the test frequency range from 9KHz to 2GHz per FCC PART 15.33(a) and 1.33(b)(1).

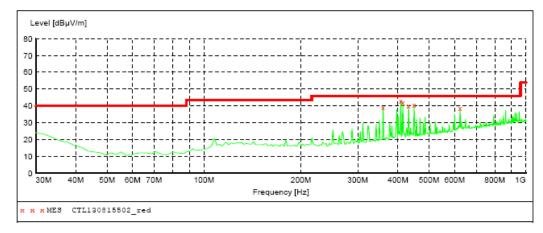
V1.0 Page 18 of 30 Report No.: CTL1306281042-WD

### **TEST RESULTS**

All the test modes (TM1, TM2, TM3 and TM4) completed for test. The worst case of Radiated Emission is TM1; the test data of this mode was reported.

TM 1:

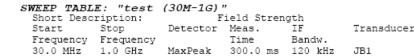


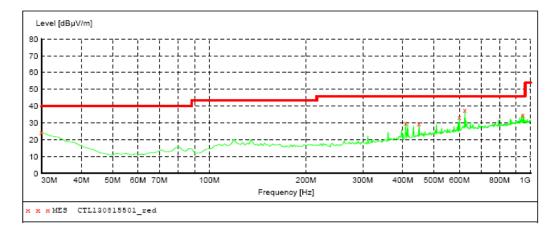


### MEASUREMENT RESULT: "CTL130815502\_red"

MAO							
Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
39.10	17.3	46.0	6.9		0.0	0.00	HORIZONTAL
43.20	18.4	46.0	2.8		0.0	0.00	HORIZONTAL
42.10	18.6	46.0	3.9		0.0	0.00	HORIZONTAL
40.20	18.9	46.0	5.8		0.0	0.00	HORIZONTAL
40.60	19.2	46.0	5.4		0.0	0.00	HORIZONTAL
38.70	22.3	46.0	7.3		0.0	0.00	HORIZONTAL
	39.10 43.20 42.10 40.20 40.60	Level Transd dBμV/m dB 39.10 17.3 43.20 18.4 42.10 18.6 40.20 18.9 40.60 19.2	Level Transd Limit dBμV/m dB dBμV/m 39.10 17.3 46.0 43.20 18.4 46.0 40.20 18.9 46.0 40.60 19.2 46.0	Level Transd Limit Margin dBμV/m dB dBμV/m dB dBμV/m dB 39.10 17.3 46.0 6.9 43.20 18.4 46.0 2.8 42.10 18.6 46.0 3.9 40.20 18.9 46.0 5.8 40.60 19.2 46.0 5.4	Level Transd Limit Margin Det. dBμV/m dB dBμV/m dB  39.10 17.3 46.0 6.9 43.20 18.4 46.0 2.8 42.10 18.6 46.0 3.9 40.20 18.9 46.0 5.8 40.60 19.2 46.0 5.4	Level dBμV/m         Transd dB dBμV/m         Limit dB dB dBμV/m         Margin dB         Det. Height dB dBμV/m           39.10         17.3         46.0         6.9          0.0           43.20         18.4         46.0         2.8          0.0           42.10         18.6         46.0         3.9          0.0           40.20         18.9         46.0         5.8          0.0           40.60         19.2         46.0         5.4          0.0	Level Transd dBμV/m         Limit dBμV/m         Margin dB         Det. Height cm         Azimuth deg           39.10         17.3         46.0         6.9          0.0         0.00           43.20         18.4         46.0         2.8          0.0         0.00           42.10         18.6         46.0         3.9          0.0         0.00           40.20         18.9         46.0         5.8          0.0         0.00           40.60         19.2         46.0         5.4          0.0         0.00

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#### MEASUREMENT RESULT: "CTL130815501\_red"

8/15/2013 9:3 Frequency MHz		Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	24.50	21.1	40.0	15.5		0.0	0.00	VERTICAL
408.300000	30.10	18.4	46.0	15.9		0.0	0.00	VERTICAL
449.040000	29.40	19.2	46.0	16.6		0.0	0.00	VERTICAL
600.360000	33.60	21.8	46.0	12.4		0.0	0.00	VERTICAL
623.640000	37.70	22.3	46.0	8.3		0.0	0.00	VERTICAL
945.680000	34.80	26.6	46.0	11.2		0.0	0.00	VERTICAL

#### Remark:

- (1) Measuring frequencies from 9 KHz to the 2GHz, Loop Antenna used below 30MHz. See Section 3.6 table item 20. Radiated emission test from 9KHz to 30MHz, above 1GHz were verified, and no any emission was found except system noise floor.
- (2) "F" denotes fundamental frequency, "H" denotes spurious frequency. "E" denotes band edge frequency.
- \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Datas of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. The test results from 9KHz to 30MHz, above 1GHz are not reported because the emissions levels that are 20dB below the official limit.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 100KHz. Below 30MHz was 10KHz. Above 1GHz was 1MHz.

V1.0 Page 20 of 30 Report No.: CTL1306281042-WD

# 5. Test Setup Photos of the EUT



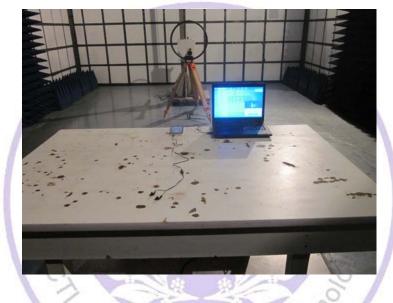




Page 21 of 30 Report No.: CTL1306281042-WD



V1.0













V1.0 Page 24 of 30 Report No.: CTL1306281042-WD

# 6. External and Internal Photos of the EUT

## **External Photos of EUT**







V1.0 Page 25 of 30 Report No.: CTL1306281042-WD









V1.0 Page 27 of 30 Report No.: CTL1306281042-WD

## **Internal Photos of EUT**



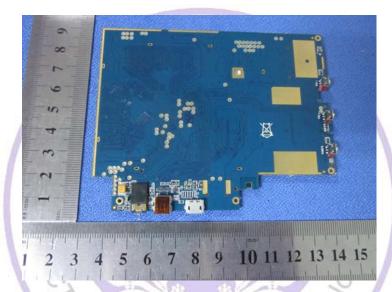




Page 28 of 30 Report No.: CTL1306281042-WD



V1.0





Page 29 of 30 Report No.: CTL1306281042-WD



V1.0



V1.0 Page 30 of 30 Report No.: CTL1306281042-WD







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