

DECLARATION OF CONFORMITY
On Behalf of
Cheng Fong International Limited

Tablet PC
Model No.: TB892B

Prepared for : Cheng Fong International Limited
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Report Number : 201208676F
Date of Test : Aug. 11~16, 2012
Date of Report : Aug. 16, 2012

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TEST REPORT VERIFICATION

Applicant : Cheng Fong International Limited
Manufacturer : Cheng Fong International Limited
EUT : Tablet PC
Model No. : TB892B
Rating : DC 5V
Trade Mark : N.A.

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B 2011 & FCC / ANSI C63.4-2009

The device described above is tested by Anbotek Compliance Laboratory Limited To determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted emissions. The measurement results are contained in this test report and Anbotek Compliance Laboratory Limited Is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Anbotek Compliance Laboratory Limited

Date of Test : Aug. 11~16, 2012

Prepared by : Barak Ban
(Engineer/ Barak Ban)

Reviewer : Jerry Du
(Project Manager/ Jerry Du)

Approved & Authorized Signer : Tom. Chen
(Manager/ Tom Chen)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description : Tablet PC
Model Number : TB892B
Test Power Supply : DC 5V
Applicant : Cheng Fong International Limited
Address : Rm 19HG, HangDu Building, HuaFu Road, Fu Tian District
Manufacturer : Cheng Fong International Limited
Address : Rm 19HG, HangDu Building, HuaFu Road, Fu Tian District
Date of Sample received : Aug. 11, 2012
Date of Test : Aug. 11~16, 2012

2. POWER LINE CONDUCTED MEASUREMENT

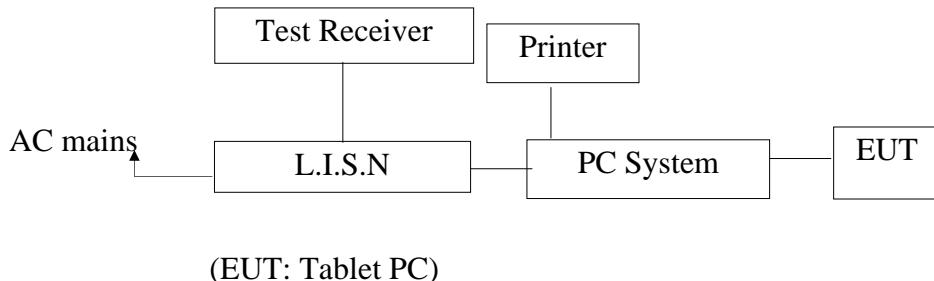
2.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Apr.25, 2012	1 Year
2.	Two-Line V-network	Rohde & Schwarz	ENV216	10055	Apr.25, 2012	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Apr.25, 2012	1 Year
4.	EMI Test Software	ES-K1	N/A	N/A	N/A	N/A

2.2. Block Diagram of Test Setup

2.2.1. Block diagram of connection between the EUT and simulators



2.3. Power Line Conducted Emission Measurement Limits (FCC Part 15)

Class B)

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

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

2.4. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

EUT : Tablet PC
Model Number : TB892B
Applicant : Cheng Fong International Limited

2.5. Operating Condition of EUT

- 2.5.1. Setup the EUT and simulator as shown as Section 2.2.
- 2.5.2. Turn on the power of all equipment.
- 2.5.3. Let the EUT work measure it.

2.6. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.4-2009 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9KHz.

The frequency range from 150KHz to 30MHz is checked.

The test result are reported on Section 2.7.

2.7. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150KHz to 30 MHz is investigated.

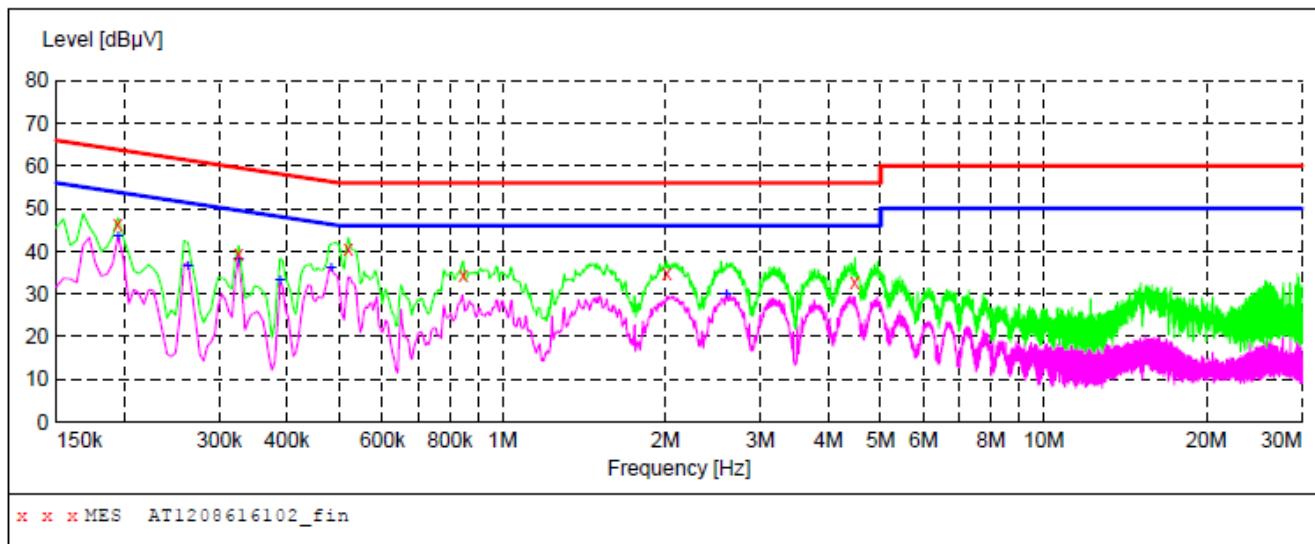
The test curves are shown in the following pages.

CONDUCTED EMISSION TEST DATA

EUT: Tablet PC M/N:TB892B
 Operating Condition: USB Charging and Playing
 Test Site: 1# Shielded Room
 Operator: Barak Ban
 Test Specification: DC 5V
 Comment: L
 Tem:25°C Hum:50%

SCAN TABLE: "Voltage (150K~30M) FIN"

Short Description: 150K-30M Disturbance Voltages

**MEASUREMENT RESULT: "AT1208616102_fin"**

8/13/2012 9:15AM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.195000	46.20	20.1	64	17.6	QP	L1	GND
0.325500	39.50	20.1	60	20.1	QP	L1	GND
0.519000	40.60	20.1	56	15.4	QP	L1	GND
0.847500	34.30	20.1	56	21.7	QP	L1	GND
2.012500	34.90	20.3	56	21.1	QP	L1	GND
4.483000	32.80	20.5	56	23.2	QP	L1	GND

MEASUREMENT RESULT: "AT1208616102_fin2"

8/13/2012 9:15AM

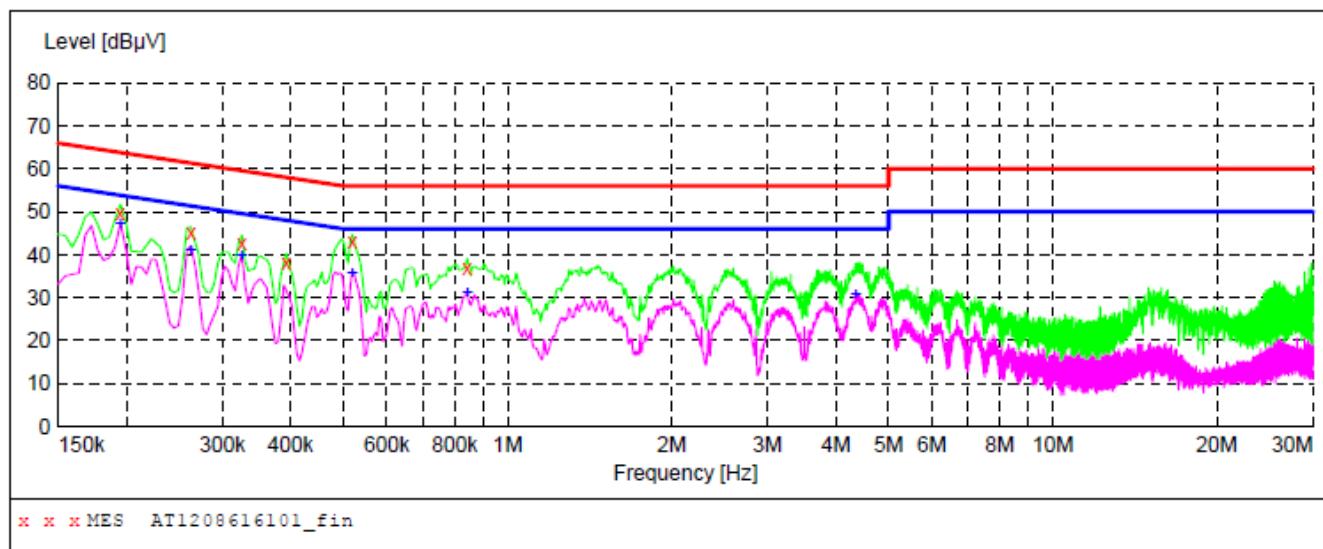
Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.195000	43.50	20.1	54	10.3	AV	L1	GND
0.262500	36.50	20.1	51	14.9	AV	L1	GND
0.325500	38.20	20.1	50	11.4	AV	L1	GND
0.388500	33.20	20.1	48	14.9	AV	L1	GND
0.483000	36.10	20.1	46	10.2	AV	L1	GND
2.597500	29.80	20.4	46	16.2	AV	L1	GND

CONDUCTED EMISSION TEST DATA

EUT: Tablet PC M/N:TB892B
 Operating Condition: USB Charging and Playing
 Test Site: 1# Shielded Room
 Operator: Barak Ban
 Test Specification: DC 5V
 Comment: N
 Tem:25°C Hum:50%

SCAN TABLE: "Voltage (150K~30M) FIN"

Short Description: 150K-30M Disturbance Voltages

**MEASUREMENT RESULT: "AT1208616101_fin"**

8/13/2012 9:11AM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.195000	49.70	20.1	64	14.1	QP	N	GND
0.262500	45.00	20.1	61	16.4	QP	N	GND
0.325500	42.60	20.1	60	17.0	QP	N	GND
0.393000	38.30	20.1	58	19.7	QP	N	GND
0.519000	42.90	20.1	56	13.1	QP	N	GND
0.843000	37.00	20.1	56	19.0	QP	N	GND

MEASUREMENT RESULT: "AT1208616101_fin2"

8/13/2012 9:11AM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.195000	47.10	20.1	54	6.7	AV	N	GND
0.262500	40.90	20.1	51	10.5	AV	N	GND
0.325500	40.00	20.1	50	9.6	AV	N	GND
0.519000	35.70	20.1	46	10.3	AV	N	GND
0.843000	31.20	20.1	46	14.8	AV	N	GND
4.348000	30.80	20.5	46	15.2	AV	N	GND

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

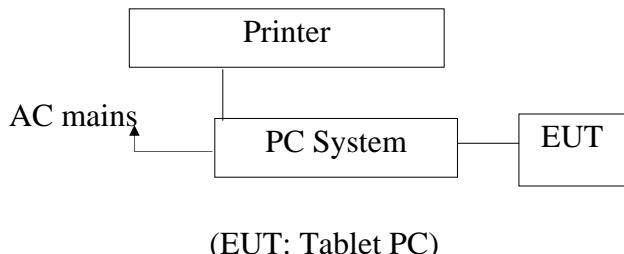
The following test equipments are used during the radiated emission measurement:

3.1.1. For Anechoic Chamber

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESCI	101604	Apr.25, 2012	1 Year
2.	Bilog Antenna	Schwarzbeck	VULB9163	100015	Apr.25, 2012	1 Year
3.	Pre-amplifier	Compliance Direction	PAP-0203	22008	Apr.25, 2012	1 Year
4.	EMI Test Software	SHURPLE	N/A	N/A	N/A	N/A
5.	Coaxial cable	ANBOTEK	N/A	N/A	N/A	N/A

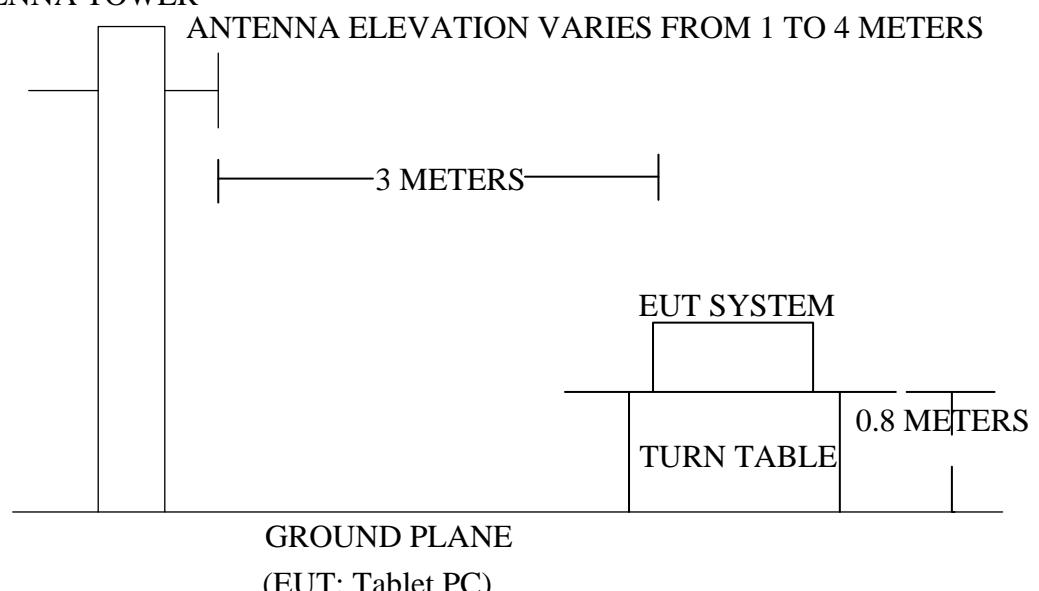
3.2. Block Diagram of Test Setup

3.2.1. Block diagram of connection between the EUT and simulators



3.2.2. Anechoic Chamber Test Setup Diagram

ANTENNA TOWER



3.3. Radiated Emission Limit (Subpart B Class B)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30~88	3	100	40.0
88~216	3	150	43.5
216~960	3	200	46.0
960~1000	3	500	54.0

Remark :

- (1) Emission level (dB) μ V = 20 log Emission level μ V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

3.4. EUT Configuration on Measurement

The following equipments are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

EUT : Tablet PC
 Model Number : TB892B
 Applicant : Cheng Fong International Limited

3.5. Operating Condition of EUT

3.5.1. Setup the EUT as shown in Section 3.2.

3.5.2. Let the EUT work measure it.

3.6. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (Trilog Broadband Antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009 on radiated emission measurement.

The bandwidth of the EMI test receiver (ESPI) is set at 120kHz.

The frequency range from 30MHz to 1000MHz is checked.

The test mode (USB Charging and Playing) is tested in chamber and all the test results are listed in Section 3.7.

3.7. Radiated Emission Measurement Results

PASS.

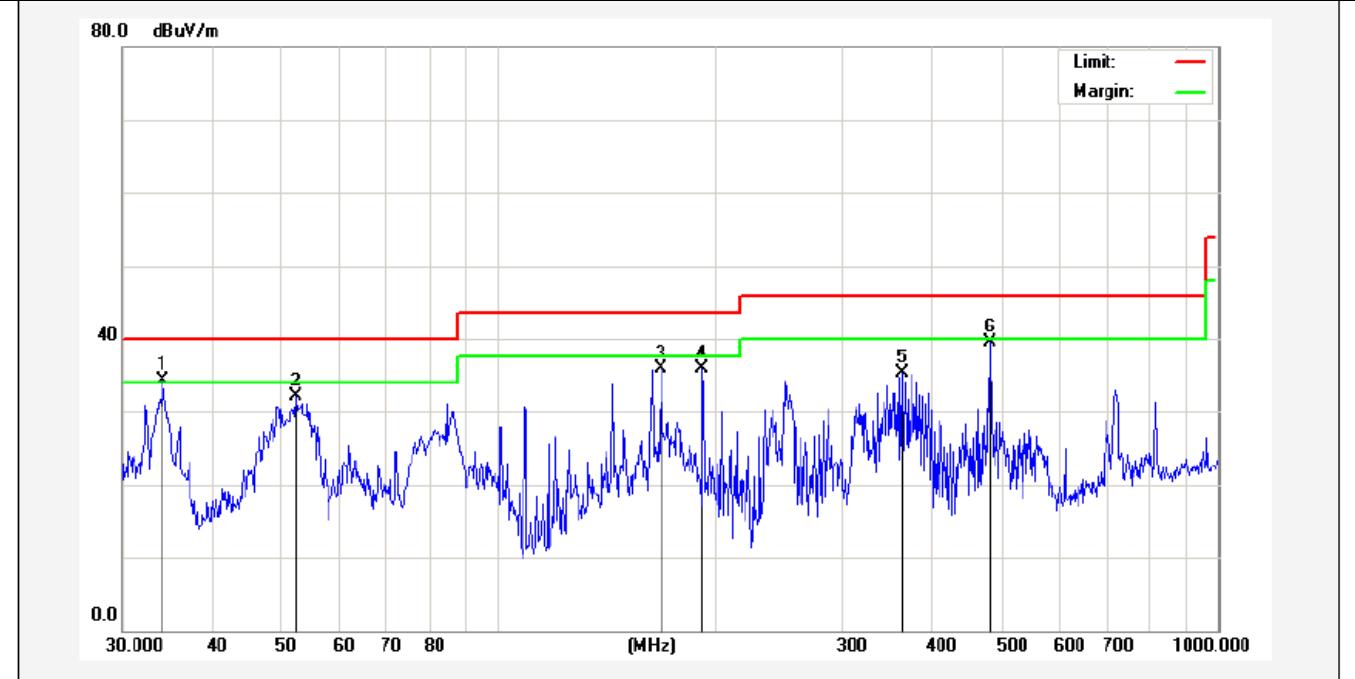
The test curves are shown in the following pages.

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Job No.:	AT1208616F	Polarization:	Horizontal
Standard:	(RE)FCC PART15 B _3m	Power Source:	DC 5V
Test item:	Radiation Test	Date:	2012/08/11
Temp.(C)/Hum.(%RH):	24.3(C)/55%RH	Time:	11:06:24
EUT:	Tablet PC	Test By:	Barak Ban
Model:	TB892B	Distance:	3m
Note:	USB Charging and Playing		



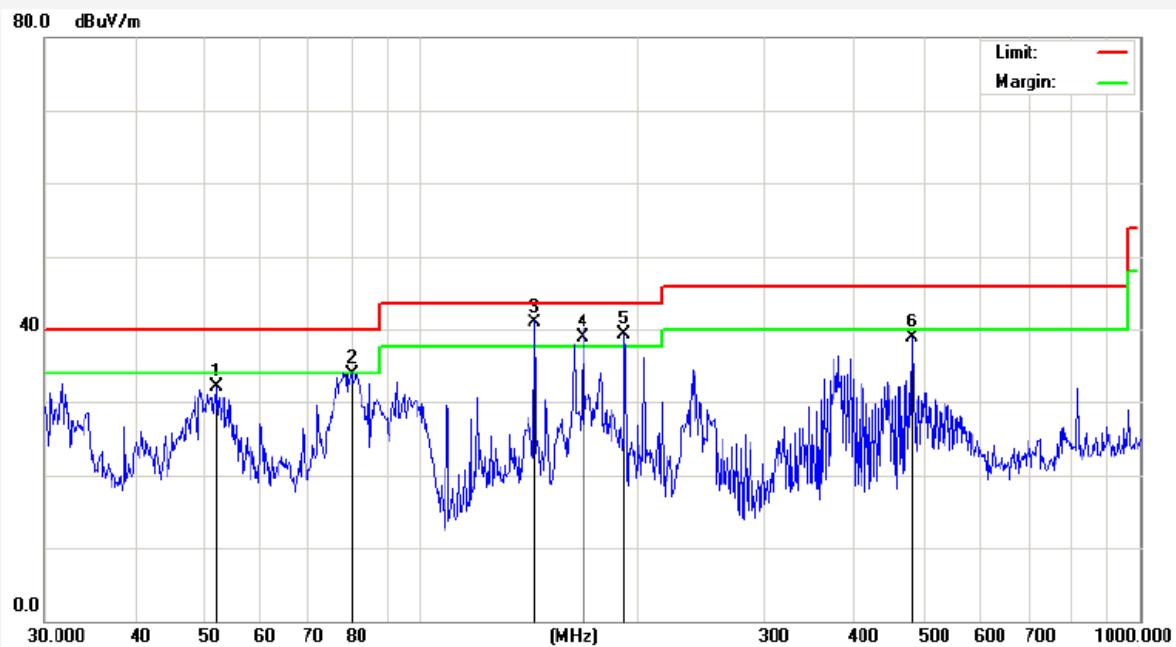
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	34.1561	62.09	-27.79	34.30	40.00	-5.70	QP	100	0	
2	52.2079	59.84	-27.76	32.08	40.00	-7.92	peak			
3	167.8243	69.06	-33.18	35.88	43.50	-7.62	peak			
4	191.7450	67.30	-31.33	35.97	43.50	-7.53	peak			
5	362.9844	58.93	-23.70	35.23	46.00	-10.77	peak			
6	480.5276	61.41	-21.94	39.47	46.00	-6.53	peak			

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Job No.:	AT1208616F	Polarization:	Vertical
Standard:	(RE)FCC PART15 B _3m	Power Source:	DC 5V
Test item:	Radiation Test	Date:	2012/08/11
Temp.(C)/Hum.(%RH):	24.3(C)/55%RH	Time:	11:09:28
EUT:	Tablet PC	Test By:	Barak Ban
Model:	TB892B	Distance:	3m
Note:	USB Charging and Playing		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	52.0251	59.77	-27.75	32.02	40.00	-7.98	peak			
2	80.0806	65.73	-31.74	33.99	40.00	-6.01	peak			
3	143.9995	69.95	-29.10	40.85	43.50	-2.65	QP	100	0	
4	167.8243	67.18	-28.18	39.00	43.50	-4.50	QP	100	360	
5	191.7450	65.65	-26.33	39.32	43.50	-4.18	QP	100	0	
6	480.5276	60.81	-21.94	38.87	46.00	-7.13	peak			

4. PHOTOGRAPH

4.1. Photo of Power Line Conducted Emission Test



4.2. Photo of Radiated Emission Test



Appendix I (External Photos)

Figure 1
The EUT-Overall View



Figure 2
The EUT-Back View



Figure 3
The EUT-Side View

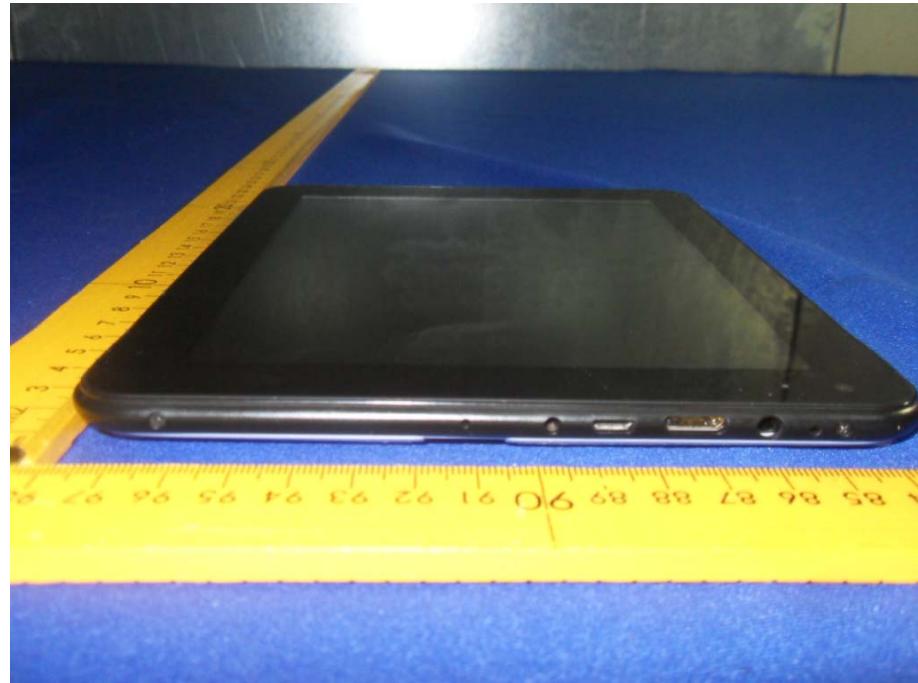
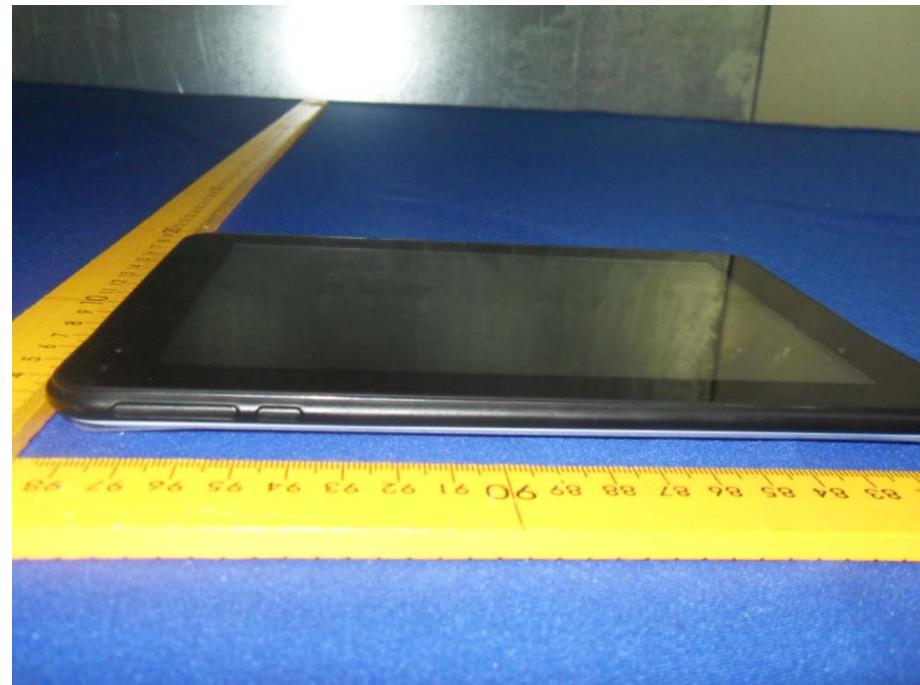


Figure 4
The EUT-Side View



Appendix II (Internal Photos)

Figure 5
The EUT-Inside View

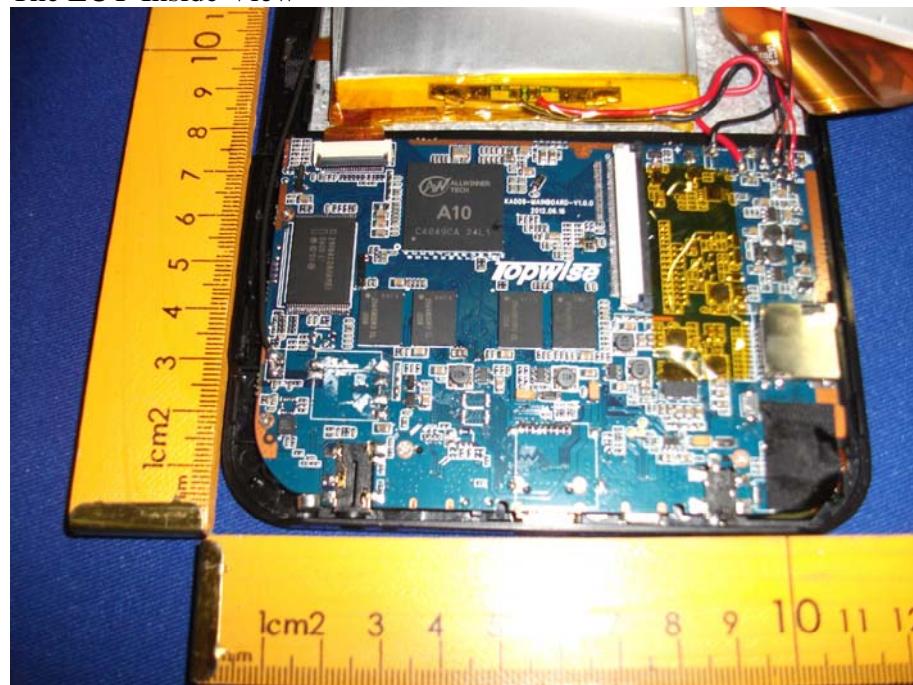


Figure 6
PCB of the EUT-Front View

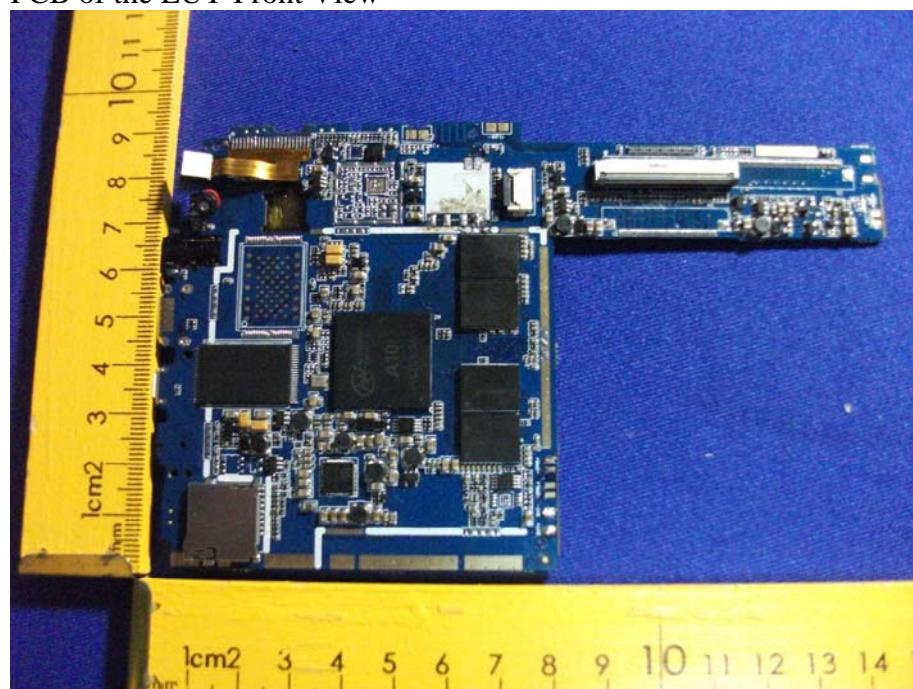


Figure 7
PCB of the EUT-Back View

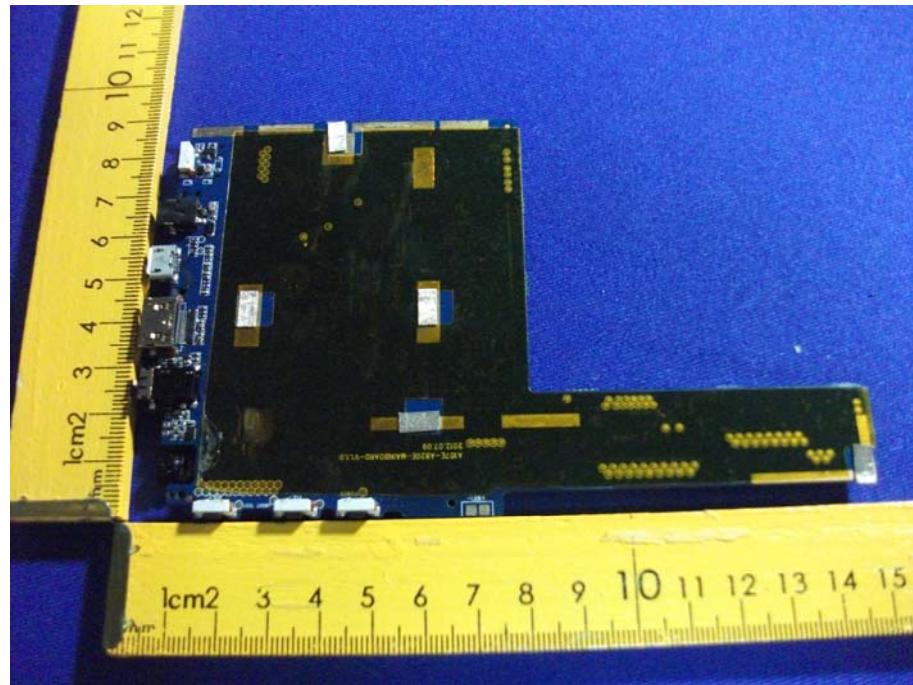


Figure 8
PCB of the EUT-Side View

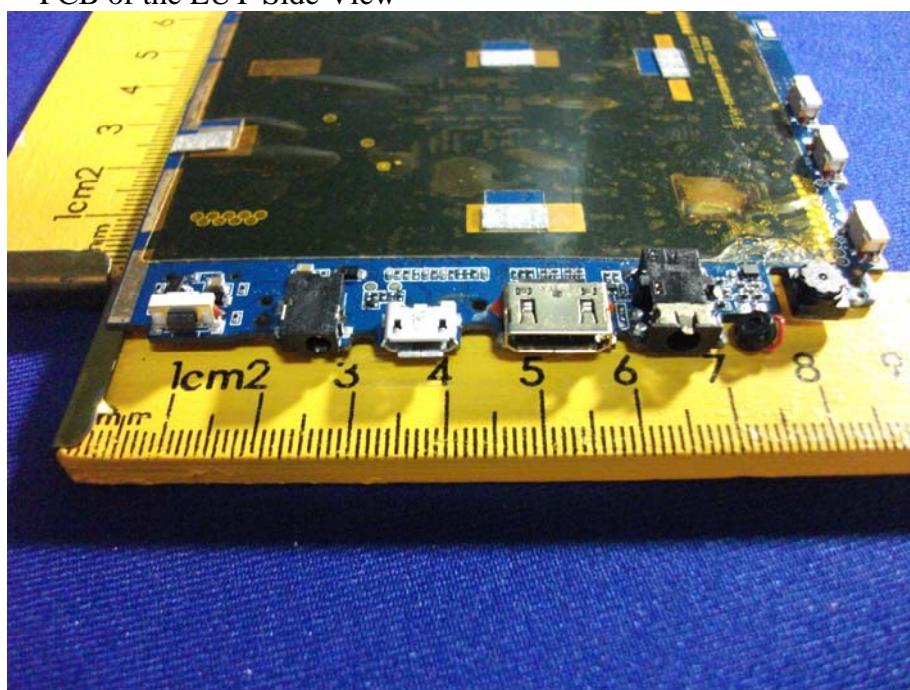


Figure 9
PCB of the WIFI Moudel FrontView

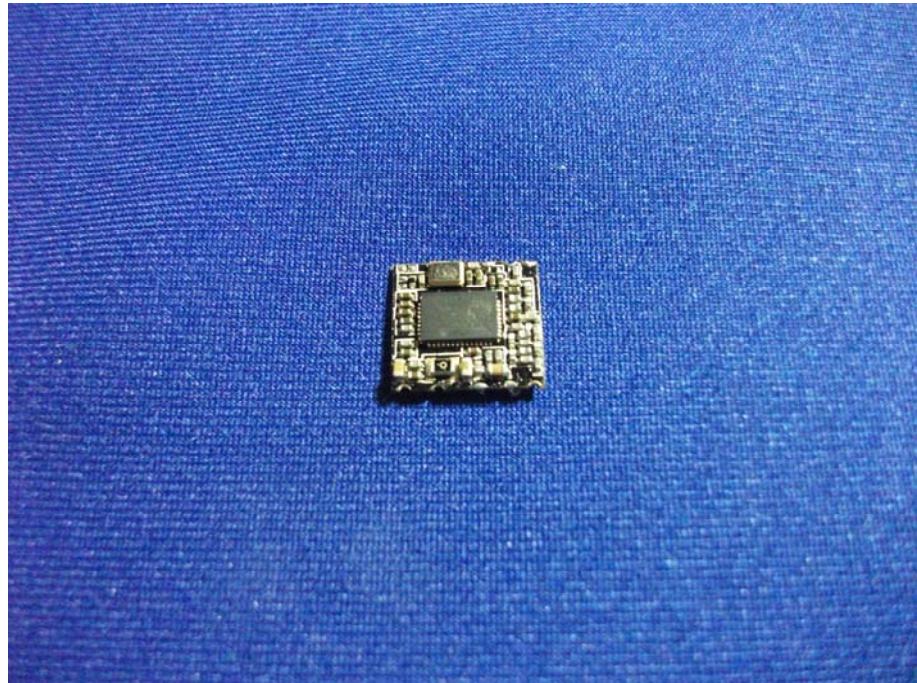


Figure 10
PCB of the WIFI Moudel Back View

