



Report No: FCC 1606178-03

File reference No: 2016-07-15

Applicant: Shenzhen Jingwah Information Technology Co., Ltd.

Product: Tablet PC

Model No: F102, ST1009, ST1009x, M10

Trademark: Polaroid, Smartab

Test Standards: FCC Part 15 Subpart B: 2015

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: July 15, 2016

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 TESTING LABORATORIES

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District,
Shenzhen, Guangdong, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



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.

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Room 512-519,5/F., East Tower,Building 4, Anhua Industrial Zone,
Futian District,Shenzhen, Guangdong China
Telephone: (755) 83448688
Fax: (755) 83442996

1.2 Applicant Details

Applicant: Shenzhen Jingwah Information Technology Co., Ltd.
Address: 4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District,
Shenzhen, China
Telephone: --
Fax: --

1.3 Description of EUT

Product: Tablet PC
Manufacturer: Shenzhen Jingwah Information Technology Co., Ltd.
Address: 4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian
District, Shenzhen, China
Brand Name: Polaroid, Smartab
Model Number: F102
Additional Model Number: ST1009, ST1009x, M10
Power Adapter Model No.: TPA-97050150U01
Input: 100-240V, 50/60Hz, 0.3A; Output: 5.0V, 1.5A

Remark: There are alternative manufacturers for TP, Camera and Panel. EUT are configured as following

Name	Manufacturer	Model
Configure a)		
TP	HOTATOUCH	F102 P+G
Camera	Shenzhen Best Camera Electronic Technique	F102 GC0310+GC2355
Panel	STARRY ELECTRONIC TECHNOLOGY	20811010280028
Configure b)		
TP	Shenzhen Leheng Electronic	F102 P+G
Camera	Shenzhen BOPENGFA ELEC&TECHNOLOGY	F102 GC0310+GC2355
Panel	Shenzhen K&D Technology	KD101N66-40NI-K2

Note: Configure a) and b) are tested and only worse case are recorded in the test report

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration: 2016-06-23 to 2016-07-14

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

1.7 Test Engineer

A handwritten signature in black ink that reads "Terry Tong". The signature is written in a cursive, flowing style.

The sample tested by

Print Name: Terry Tong

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2.0 List of Measurement Equipment

2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESH3	860905/006	RS	2015.08.22	1 Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2015.08.22	1 Year
PULSE LIMITER	ESH3-Z2	100281	RS	2015.08.22	1 Year
LISN	ESH3-Z5	100294	RS	2015.08.22	1 Year
LISN	ESH3-Z5	100253	RS	2015.08.22	1 Year

2.2 Radiated electromagnetic disturbance test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESVD	100008	RS	2015.08.22	1 Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2015.08.23	1 Year
Horn Antenna	BBHA 9120D	9120D-631	Schwarebeck	2015.08.24	1 Year
Horn Antenna	BBHA 9170	BBHA9170265	Schwarebeck	2015.08.24	1 Year
Test Receiver	ESI26	838786/013	RS	2015.08.22	1 Year
Pre-amplifier	EM30265	2727A05017	EM	2015-08-24	2016-08-23

2.3 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Cable	FCC DOC/ ID
Monitor	P2450	--	SAMSUNG	Data cable of 1.5m length	FCC DOC
Passive Earphone	--	--	--	--	--
Mouse	M-F105	--	L.SEletron	--	FCC DOC
TF	G4	--	Golrystar	--	FCC DOC
PC	R4	--	Thinkpad	--	FCC ID

2.4 I/O Cable

I/O Port Description	Quantity	Cable
HDMI	1	0.8m Shielded
Earphone	2	1.2m Unshielded
USB	1	0.6m Shielded

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3.0 Technical Details

3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

3.2 Test Standards

FCC Part 15 Subpart B: 2015

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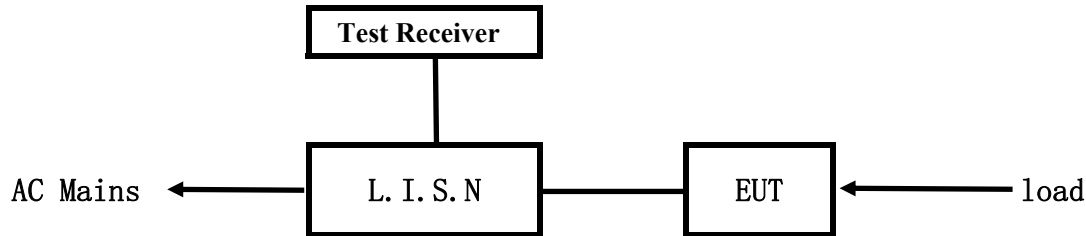
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4.0 Conducted Power line Test

4.1 Schematics of the test



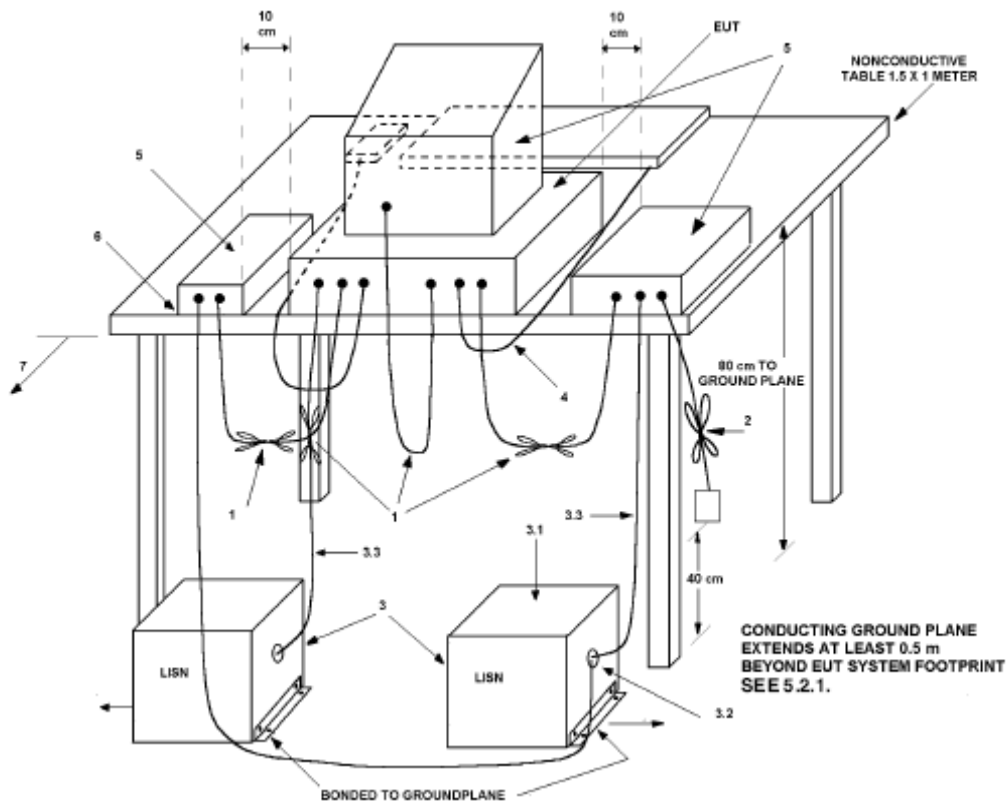
EUT: Equipment Under Test

4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2014. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Actual Working Voltage and Frequency: 120V~, 60Hz

Block diagram of Test setup



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4.3 Power line conducted Emission Limit

Frequency(MHz)	Class A Limits dB(μV)		Class B Limits dB(μV)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.00	66.00	66.00~56.00*	56.00~46.00*
0.50 ~ 5.00	73.00	60.00	56.00	46.00
5.00 ~ 30.00	73.00	60.00	60.00	50.00

- Notes:
1. *decreasing linearly with logarithm of frequency.
 2. The tighter limit shall apply at the transition frequencies

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

EUT Operating Environment

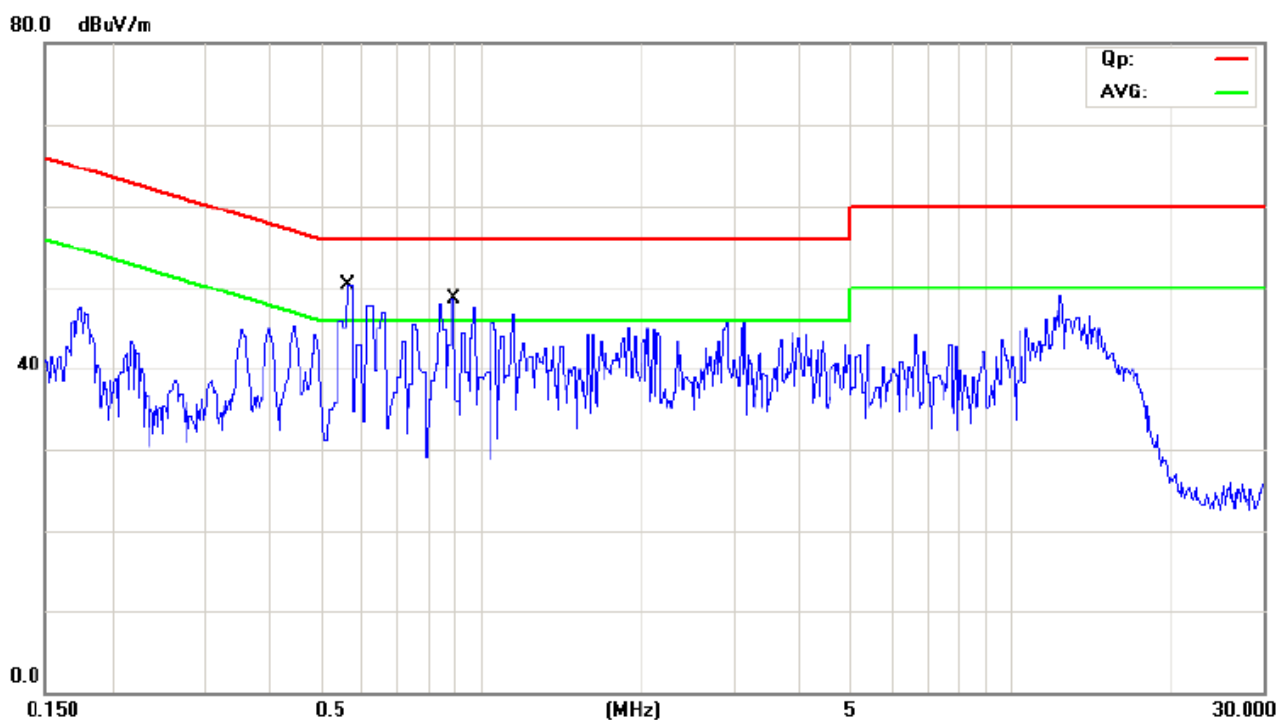
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Communication with PC

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.5636	31.60	11.44	43.04	56.00	-12.96	QP	
2		0.5636	9.90	11.44	21.34	46.00	-24.66	AVG	
3		0.8806	31.20	11.77	42.97	56.00	-13.03	QP	
4		0.8806	1.80	11.77	13.57	46.00	-32.43	AVG	

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

EUT Operating Environment

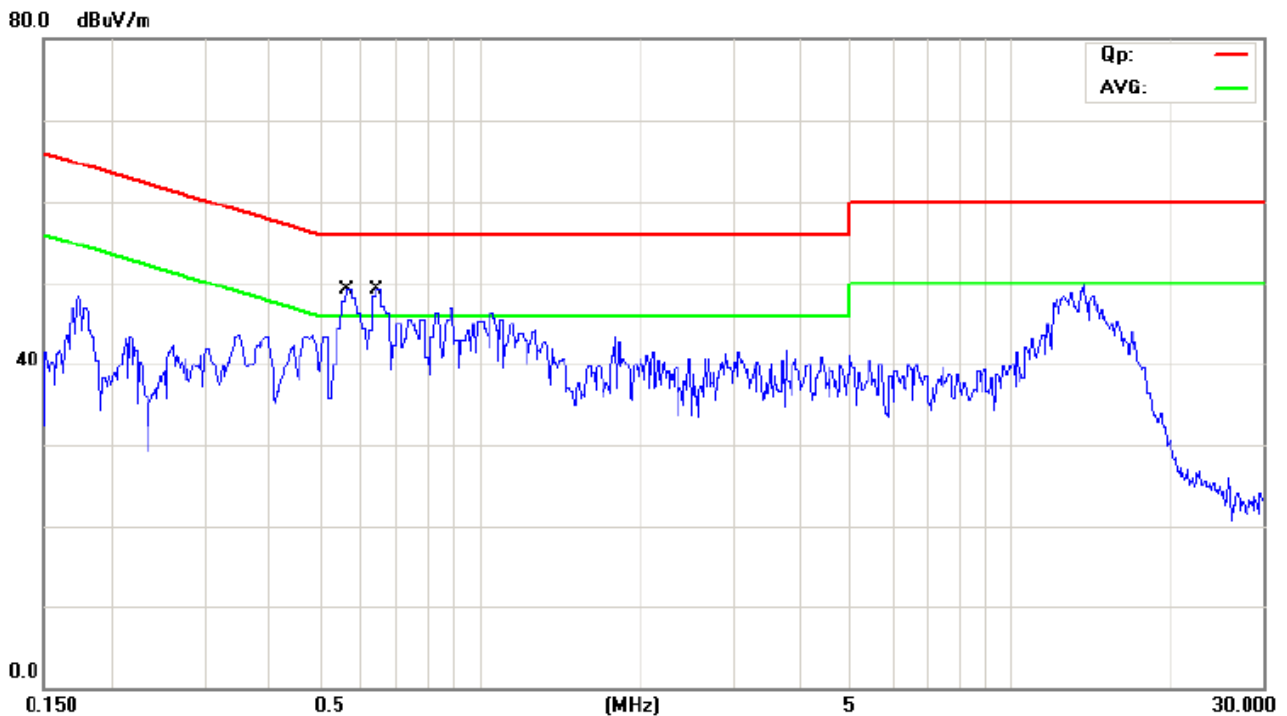
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Communication with PC

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.5564	35.20	11.43	46.63	56.00	-9.37	QP	
2		0.5564	7.80	11.43	19.23	46.00	-26.77	AVG	
3	*	0.6412	36.00	11.52	47.52	56.00	-8.48	QP	
4		0.6412	3.20	11.52	14.72	46.00	-31.28	AVG	

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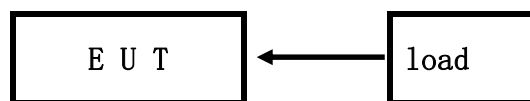
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5.0 Radiated Disturbance Test

5.1 Schematics of the test

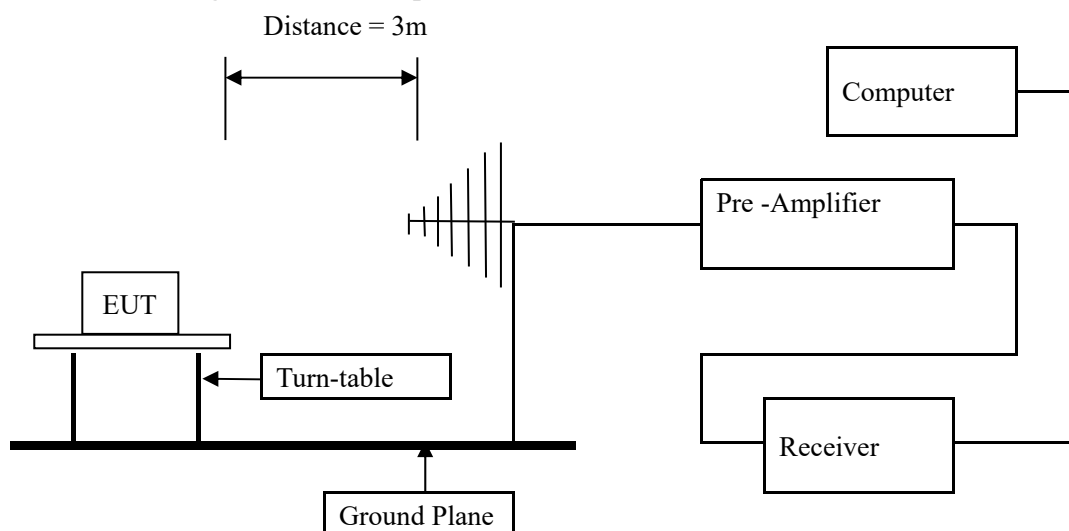


5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2014; The frequency spectrum from 30MHz to 18GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK

Actual Working Voltage and Frequency: 120V~, 60Hz

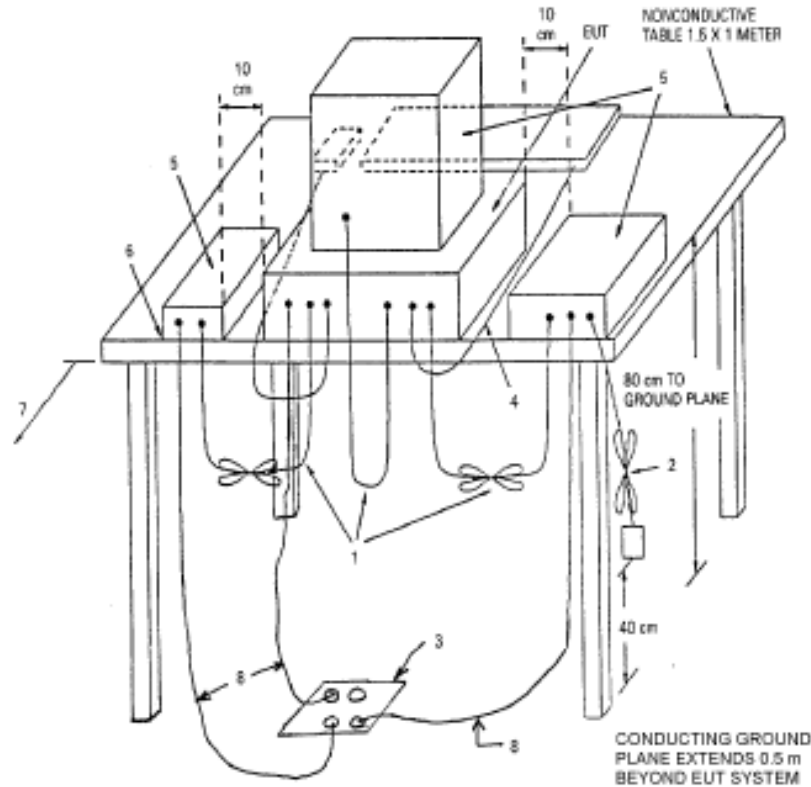
Block diagram of Test setup



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5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: 1.The lower limit shall apply at the transition frequencies

2.This is a handheld 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.

5.4 Test result

The frequency spectrum from 30MHz to 18GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK. Measurements were made at 3 meters.

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal/ In Vertical (30MHz----1000MHz)

EUT set Condition: **Communication with PC**

Results: **Pass**

Frequency (MHz)	Reading (dB μ V)	Antenna Factor (db/m)	Cable Loss (dB)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
30.200	11.26	19.28	1.44	31.98	H	40.00
180.040	19.90	8.14	2.61	30.65	H	43.50
92.160	18.40	8.58	2.13	29.11	H	43.50
465.080	13.18	15.00	4.20	32.38	H	46.00
176.440	17.59	8.45	2.38	28.42	V	43.50
91.880	16.18	8.62	2.03	26.83	V	43.50
34.080	13.35	17.27	0.96	31.58	V	40.00
521.360	10.51	16.15	4.35	31.01	V	46.00

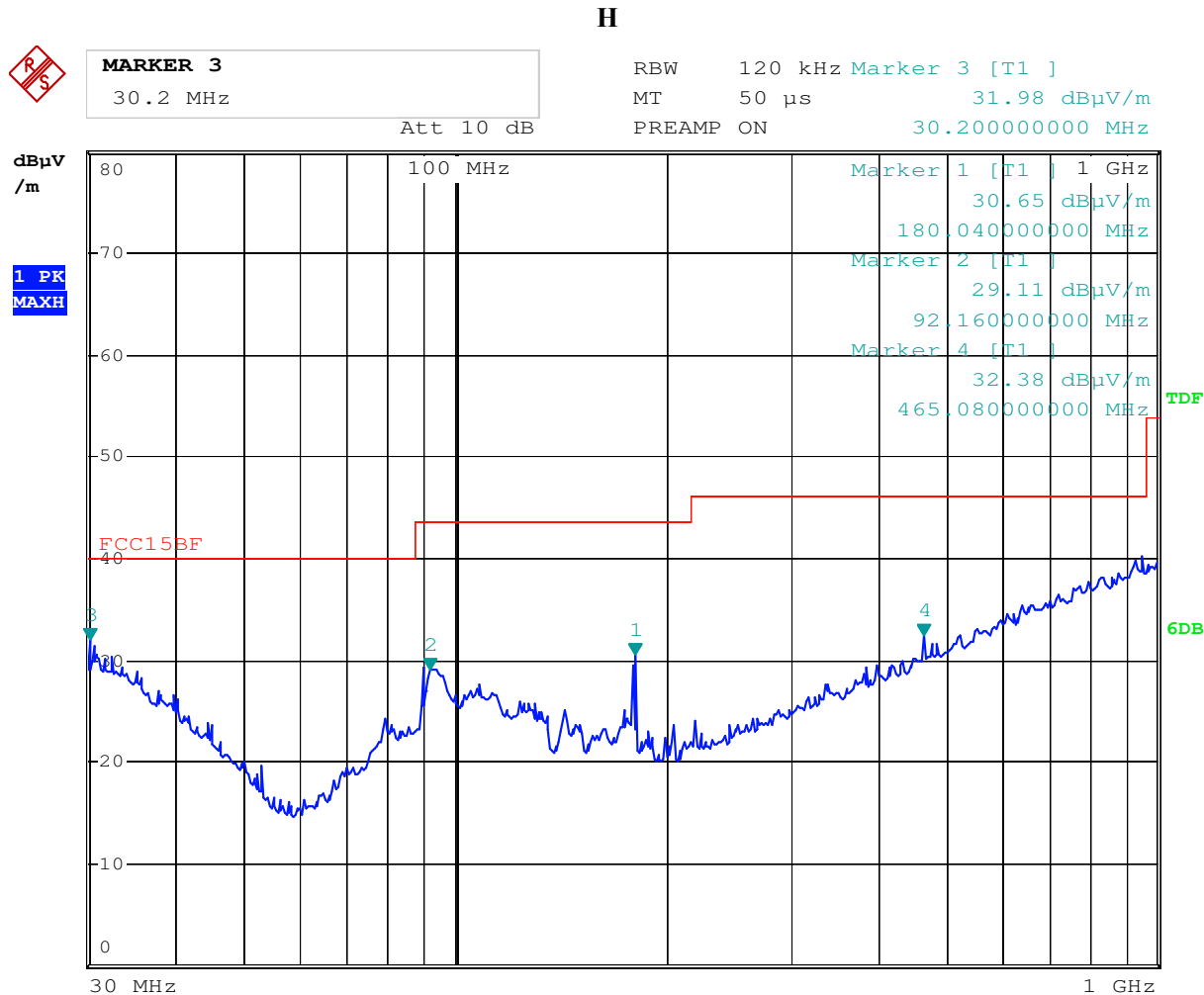
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Test Figure:

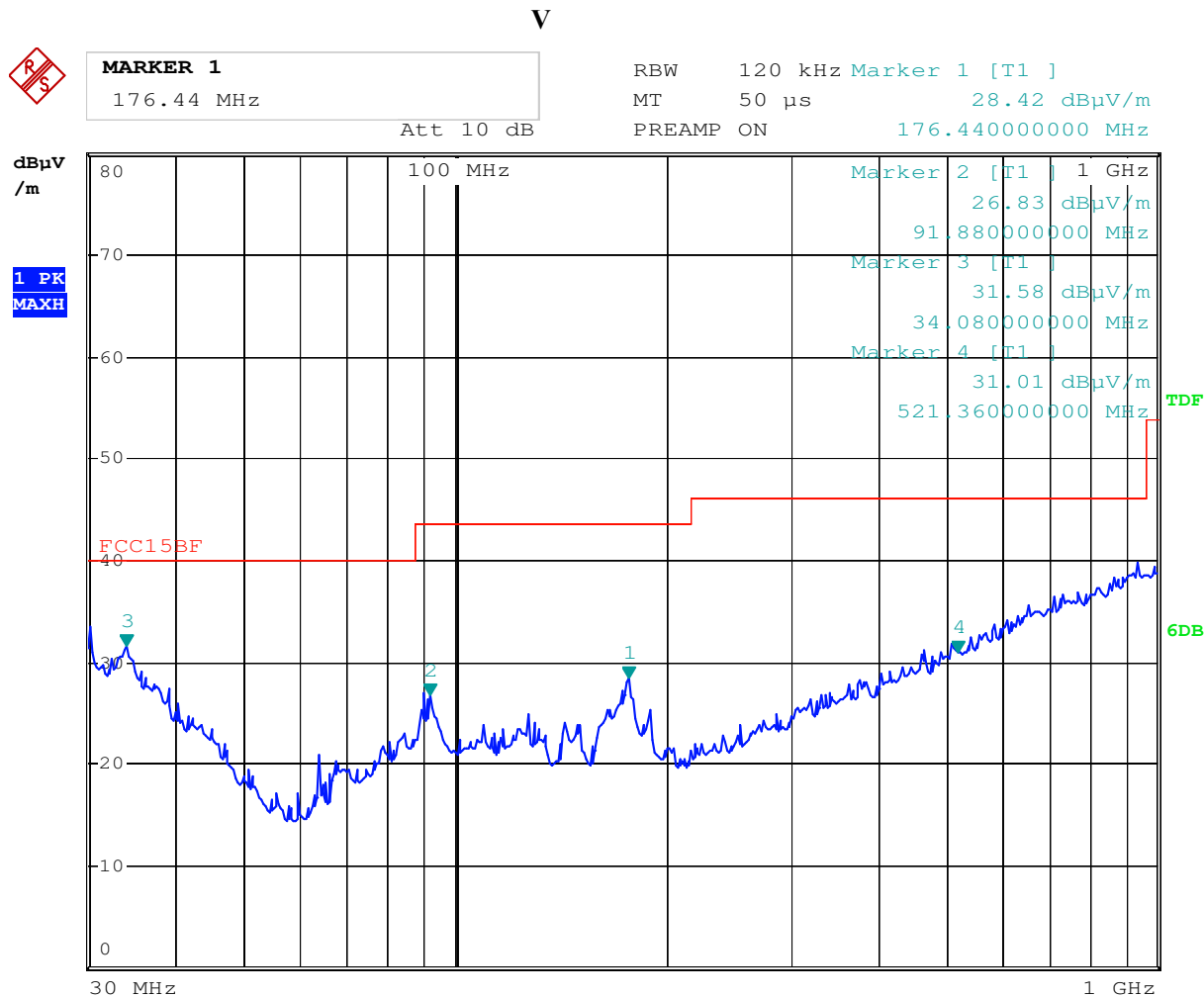


Date: 23.JUN.2016 10:02:13

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Test Figure:



Date: 23.JUN.2016 09:56:34

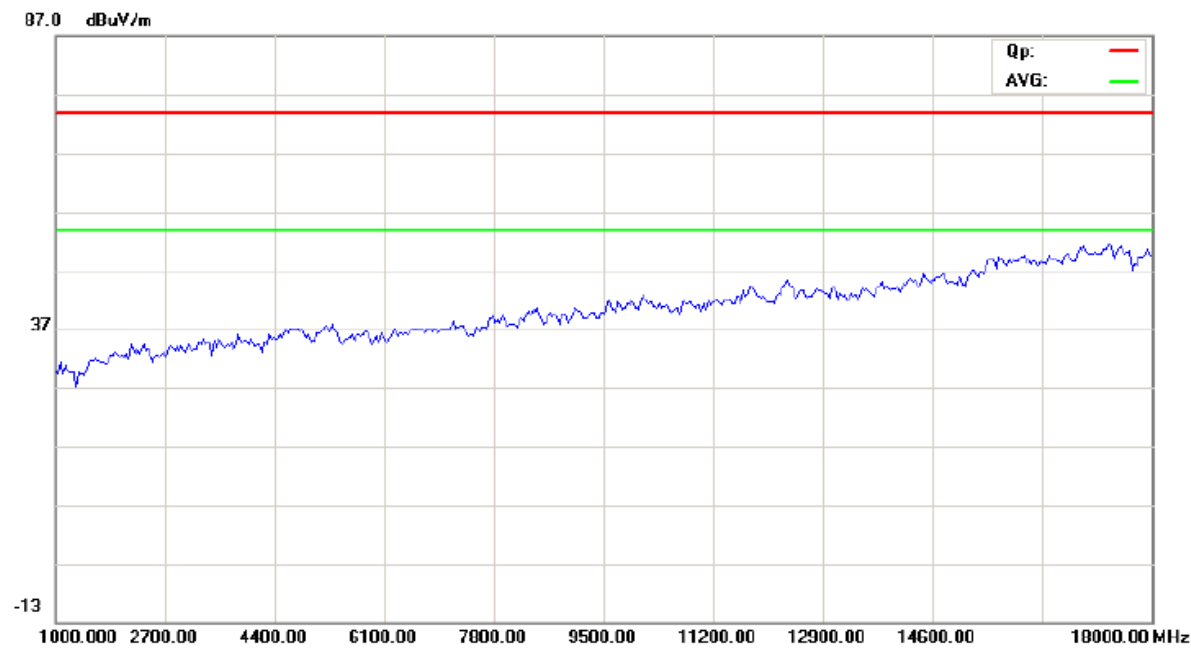
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A Radiated Disturbance (1000MHz---18000MHz)

EUT Operating Environment
Temperature:25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa
EUT set Condition: Connected to PC
Equipment Level: Class B
Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pre-amp (dB)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	--	--	--	--	H	54(AV)

Note: Due to the final radiated level much less than the limit, so necessary take down final radiated level

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B Radiated Disturbance (1000MHz----18000MHz)

EUT Operating Environment

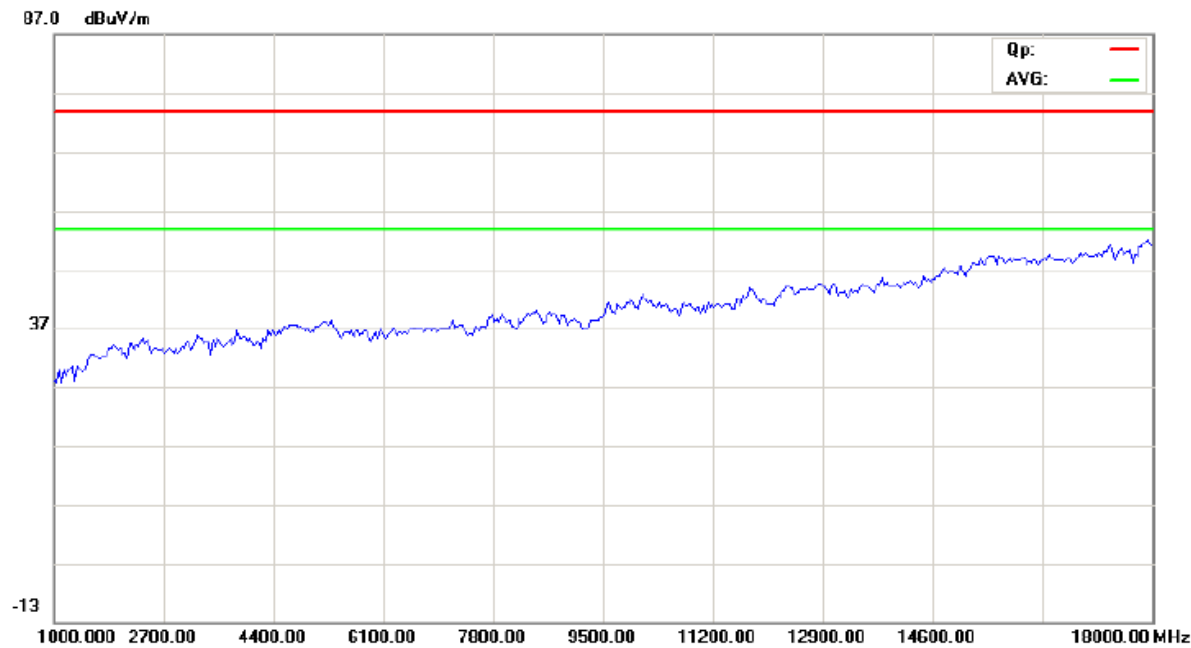
Temperature:25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Connected to PC

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pre-amp (dB)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	--	--	--	--	V	54(AV)

Note: Due to the final radiated level much less than the limit, so necessary take down final radiated level

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6.0 FCC ID Label

FCC ID: RBD- F102

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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7.0 Photo of testing

7.1 Conducted test View--



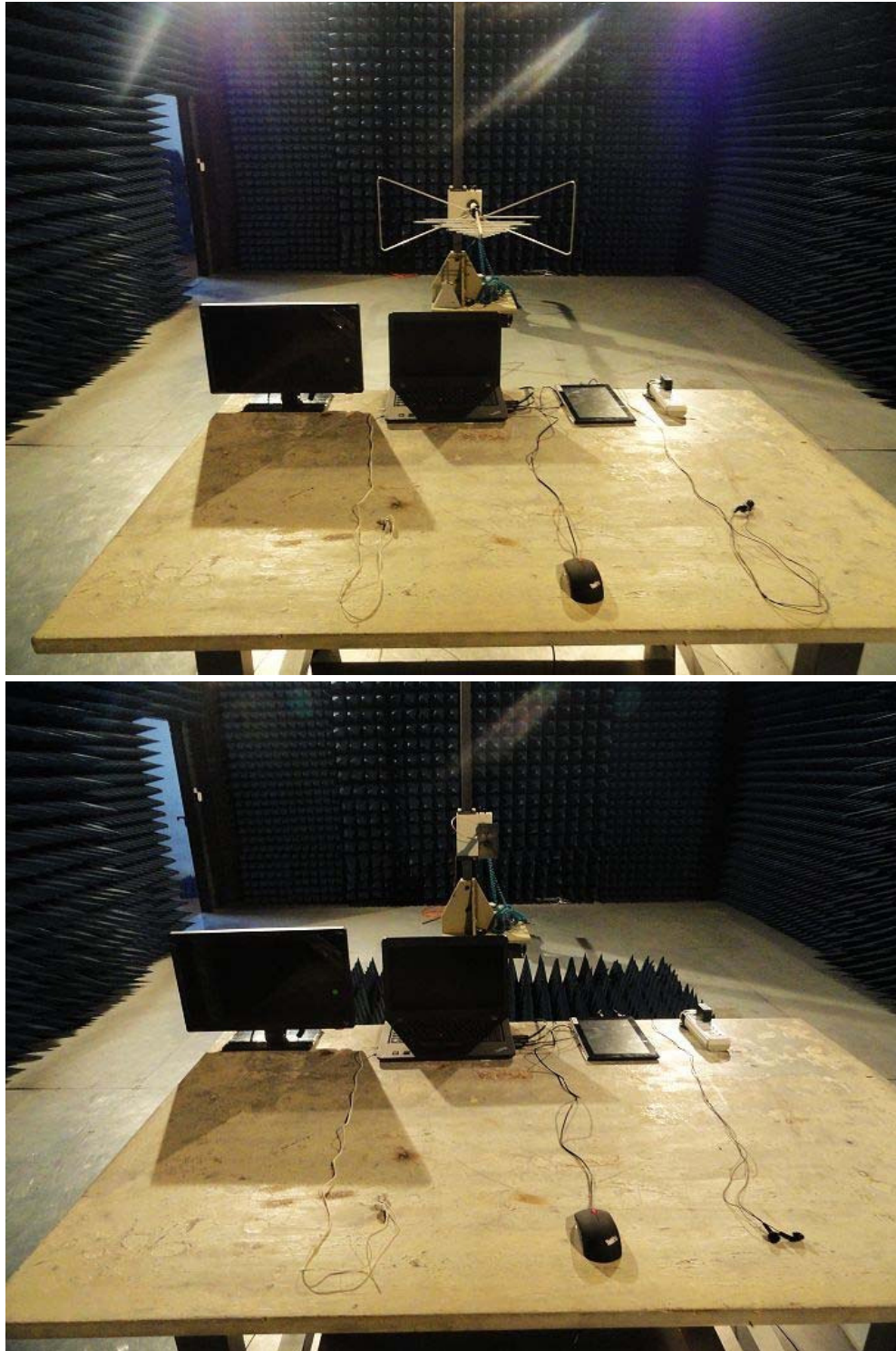
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7.2 Radiated emission test view--



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7.2 Radiated emission test view--



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Photographs – EUT

Outside view



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Outside view



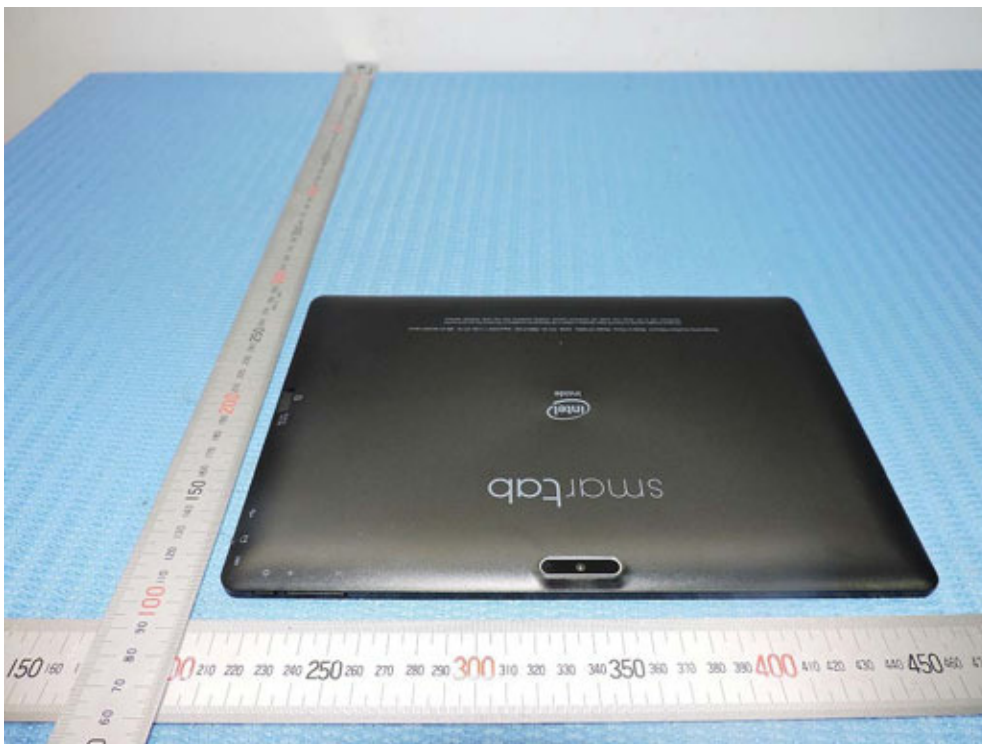
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Outside view



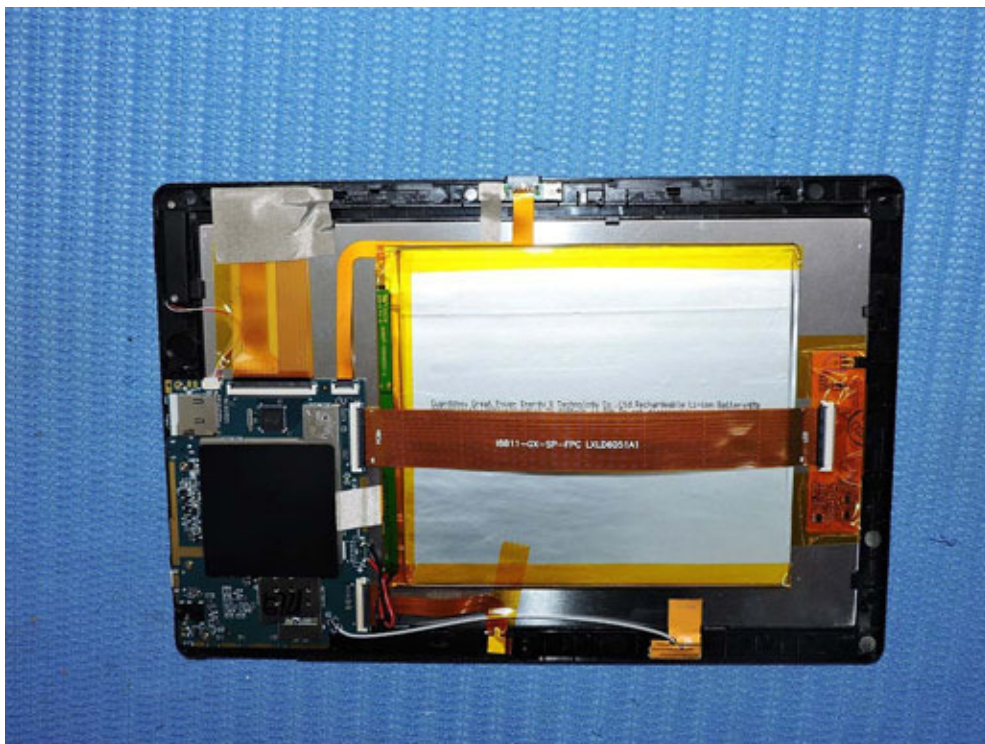
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Inside view



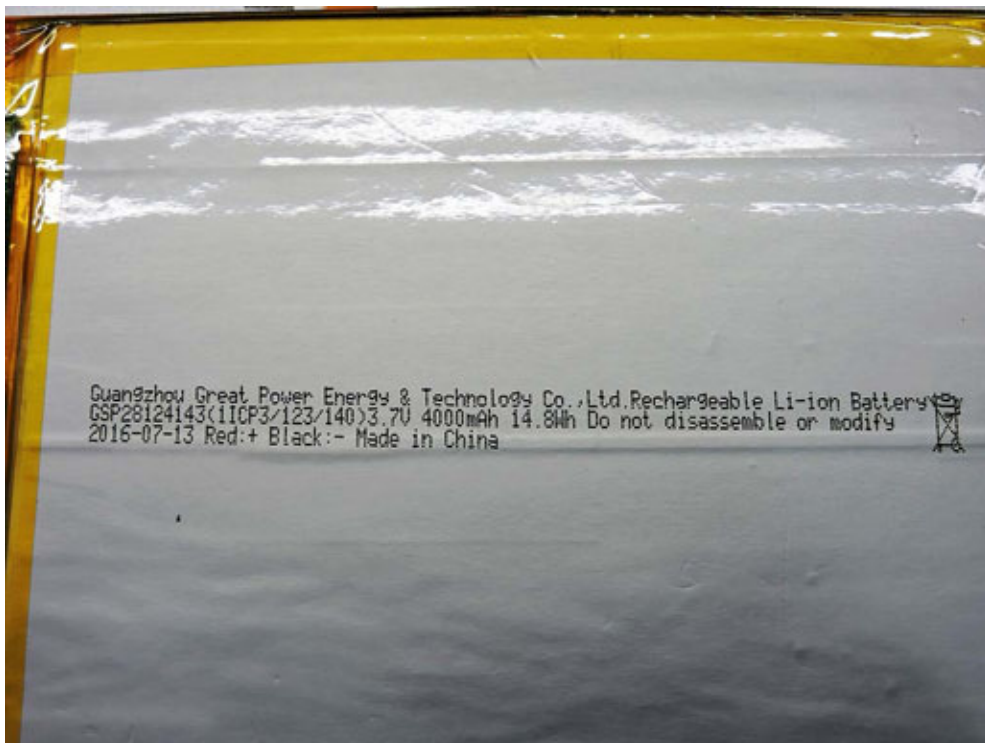
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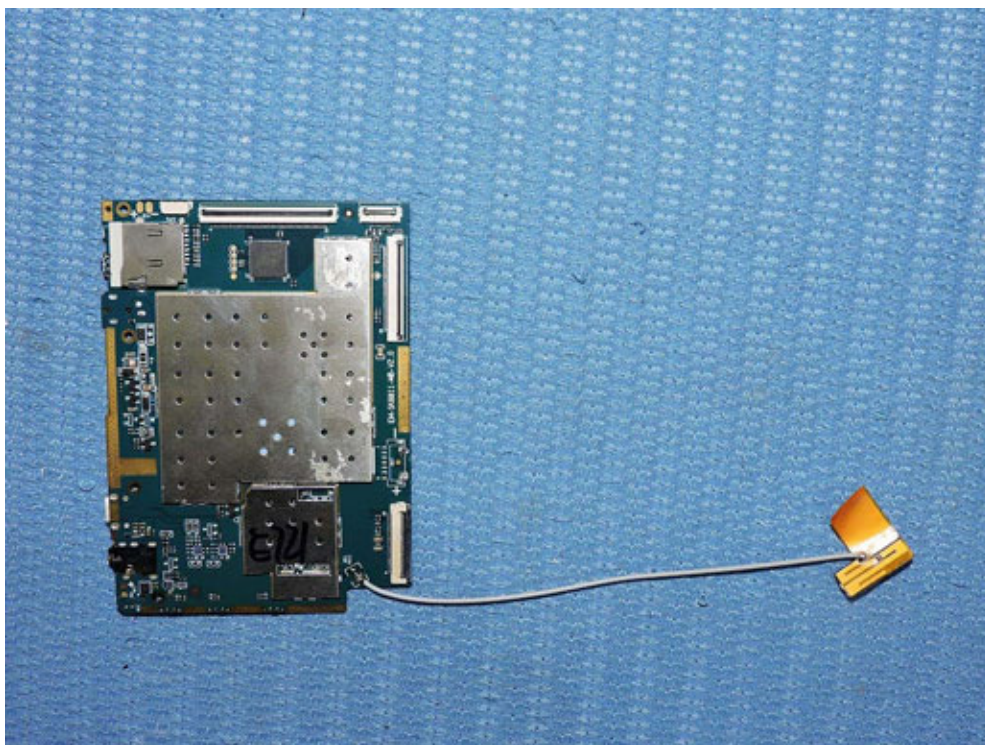
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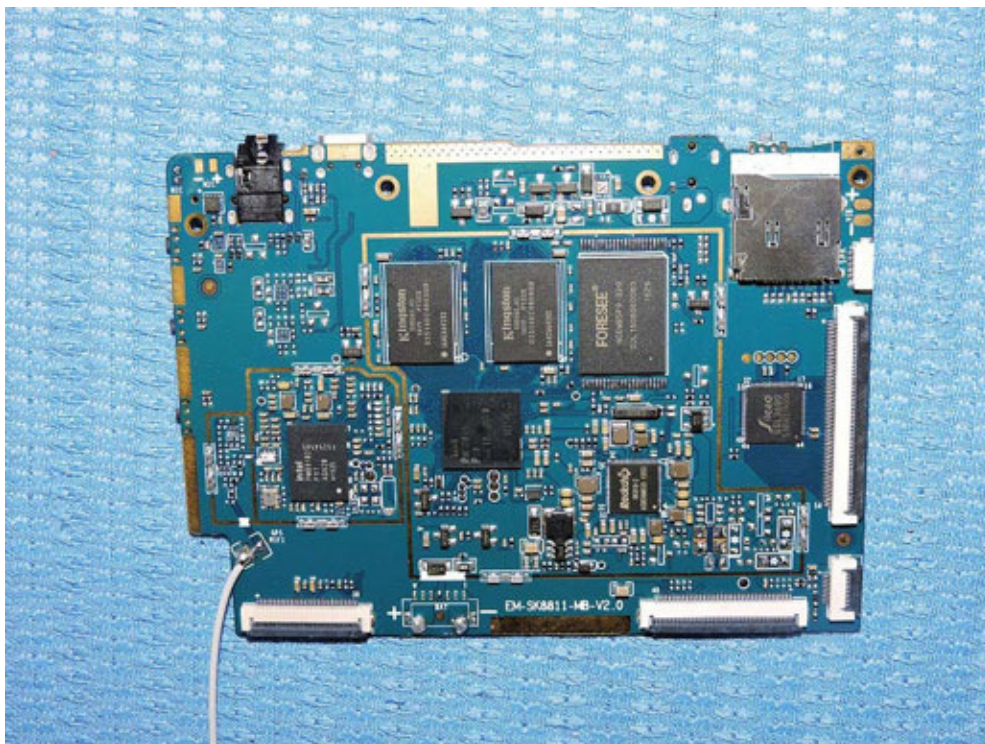
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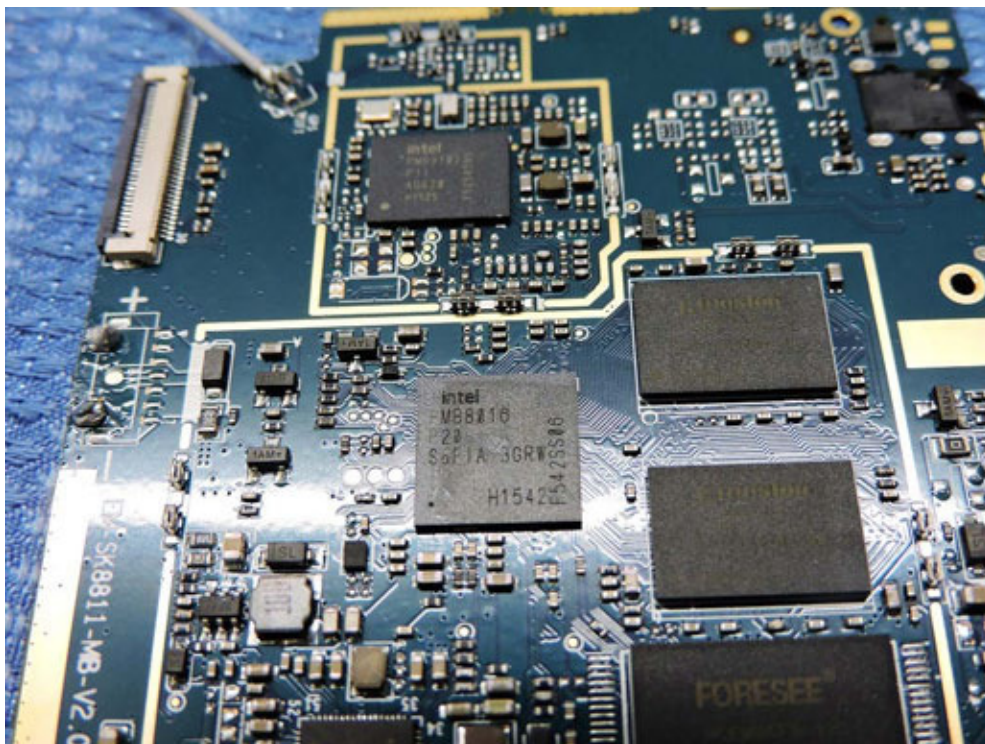
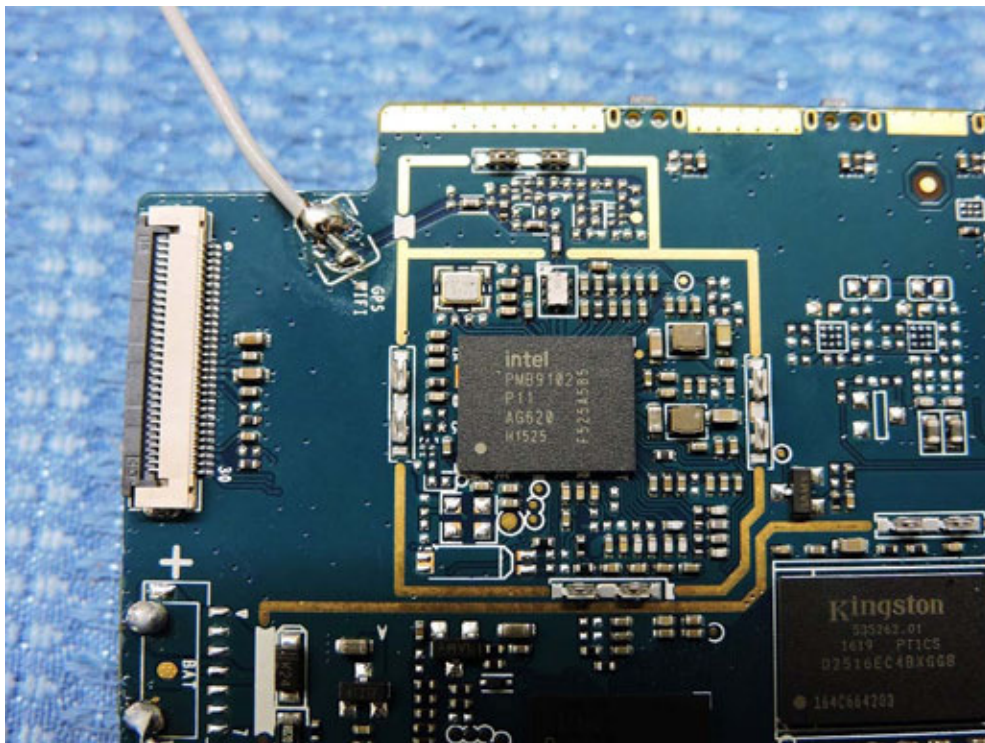
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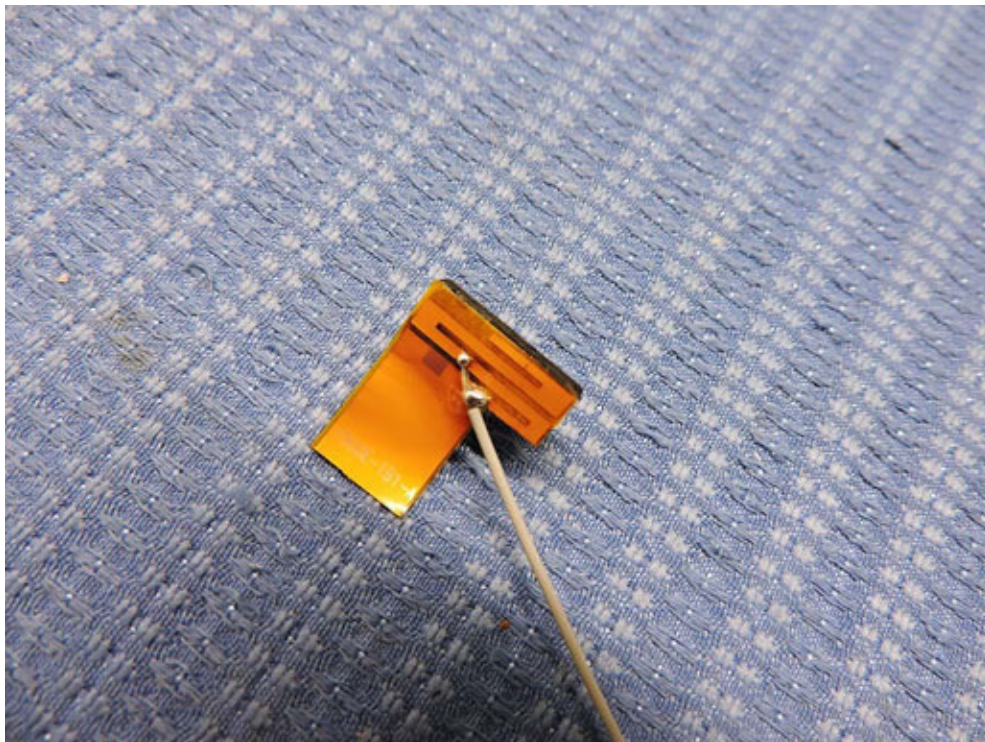
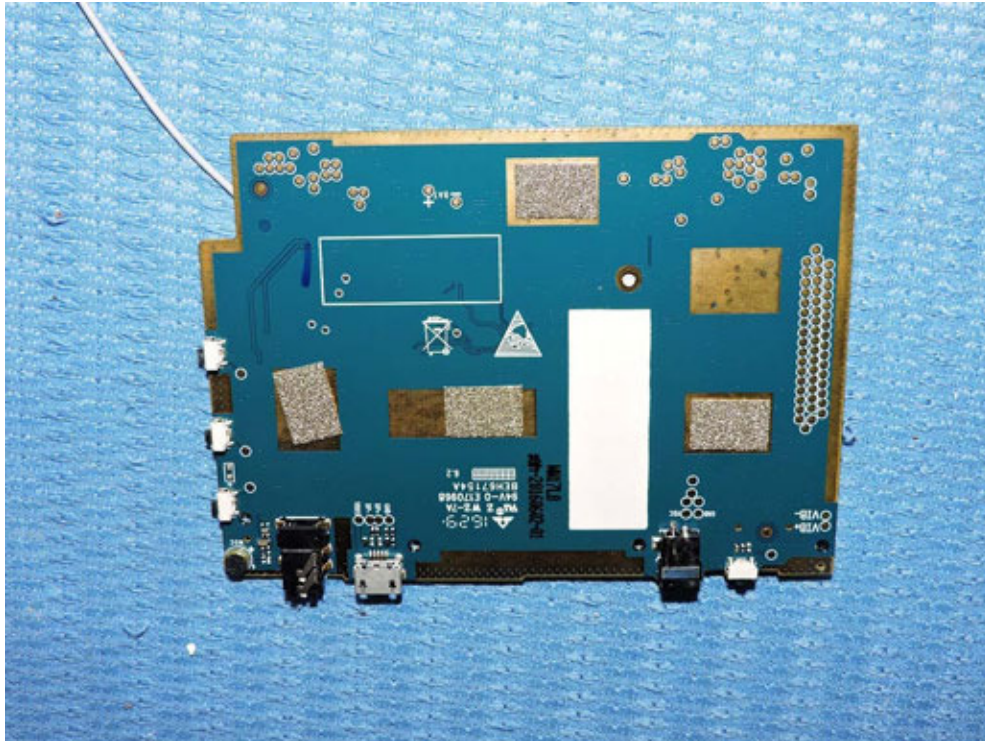
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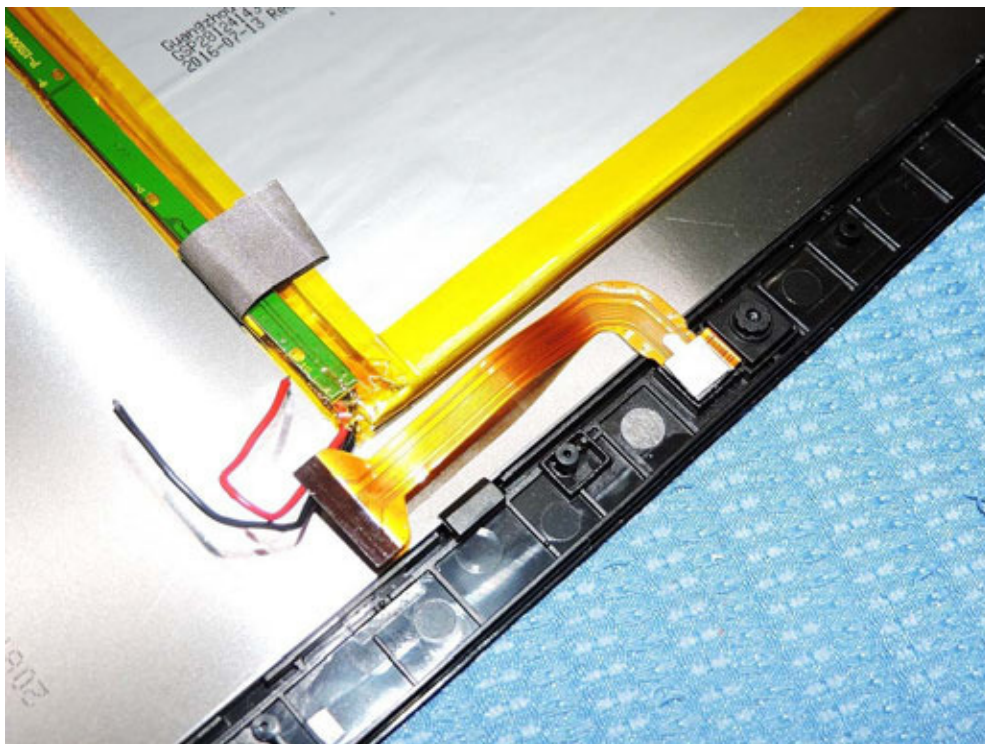
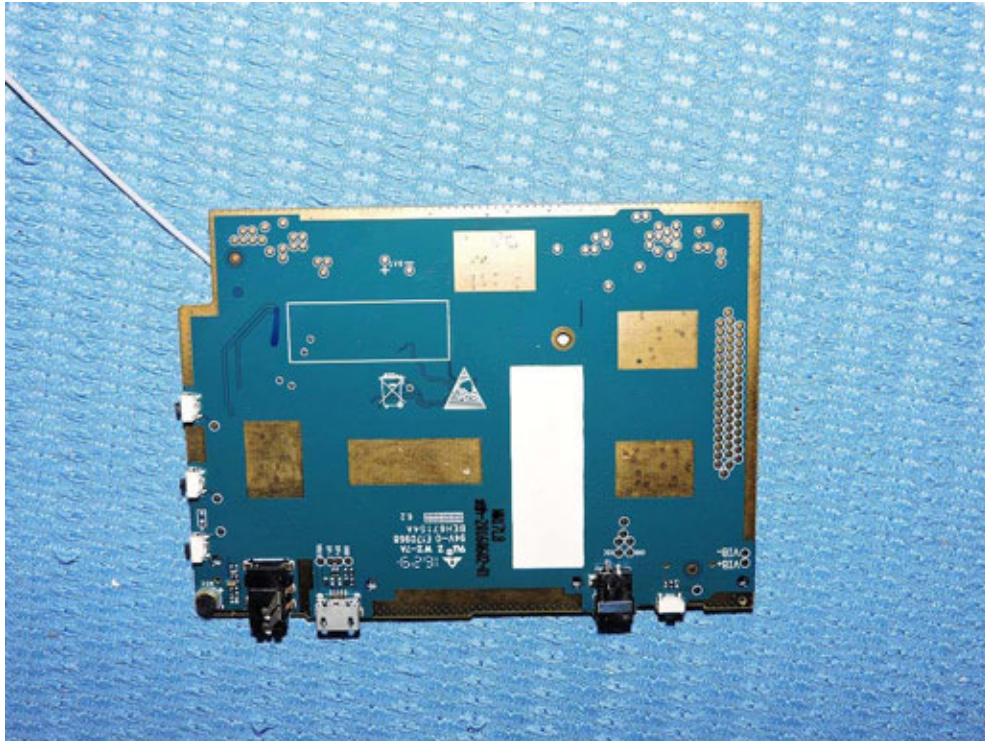
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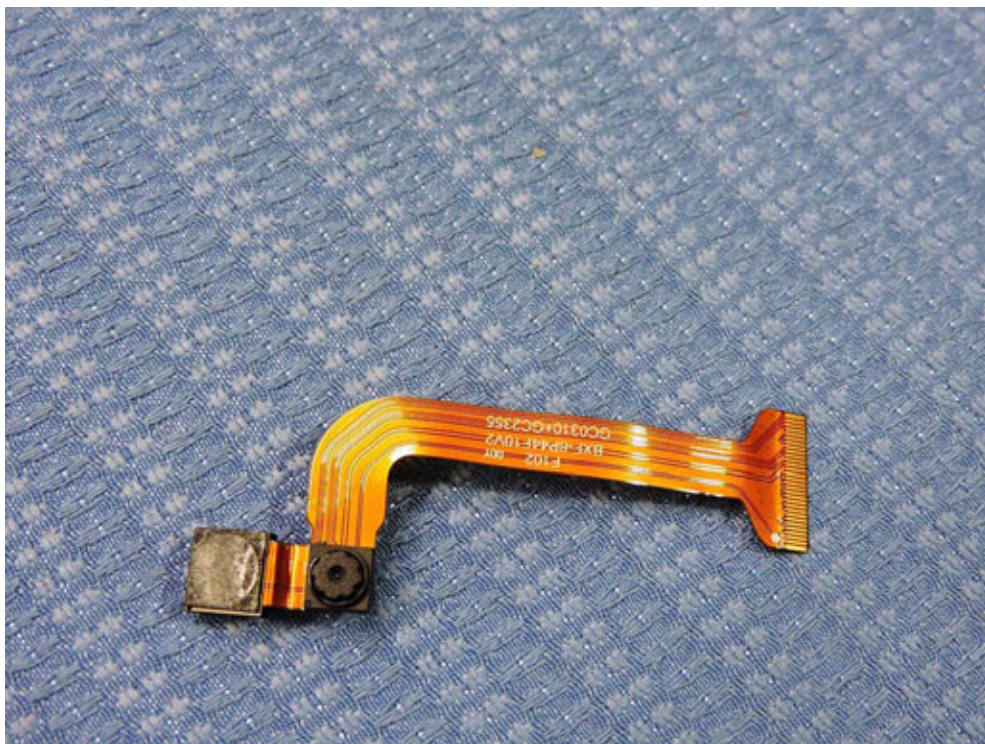
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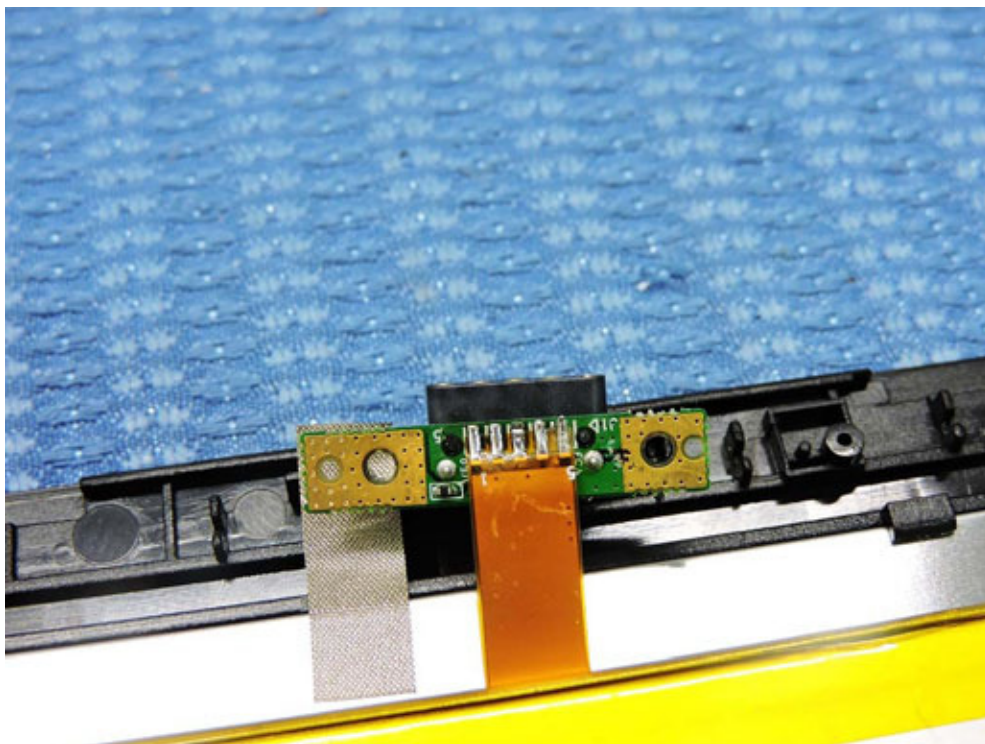
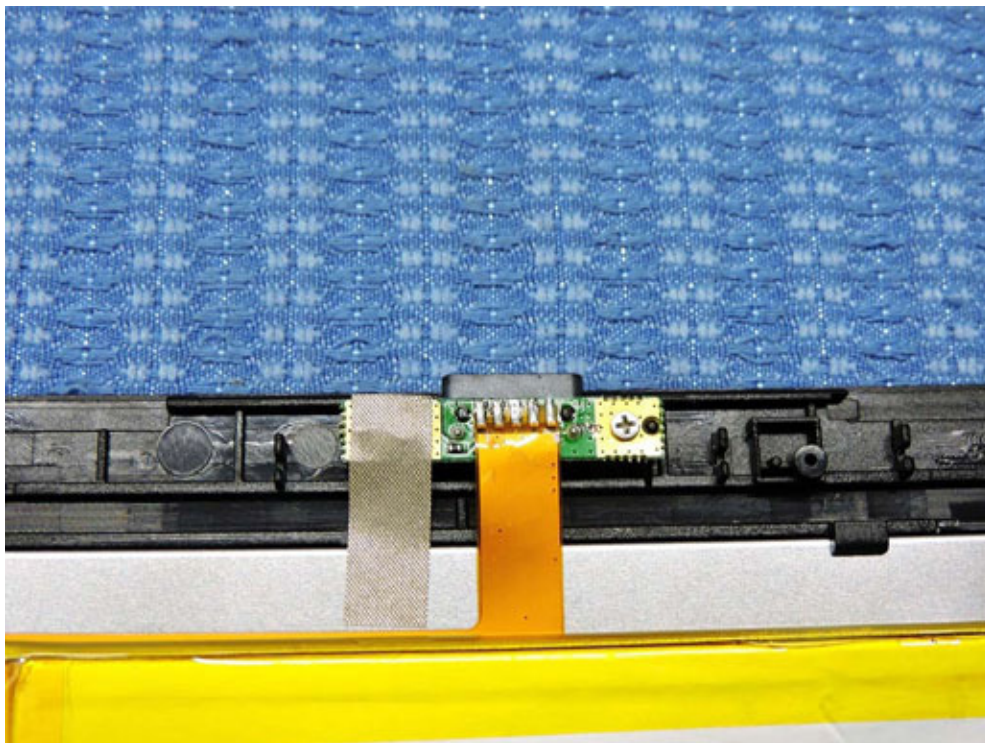
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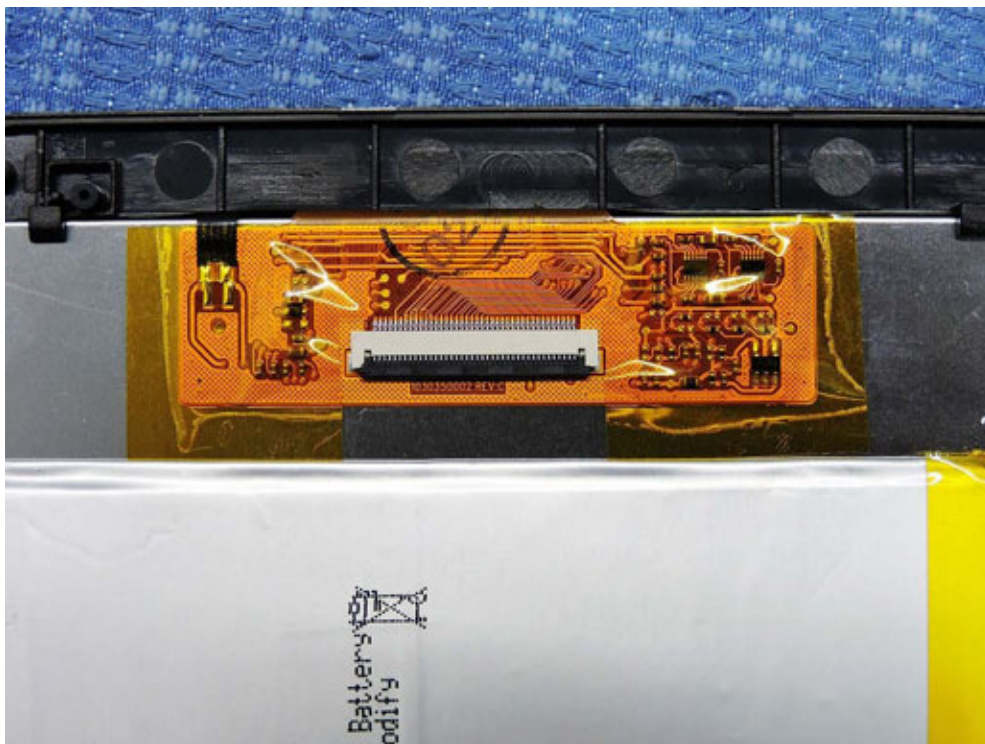
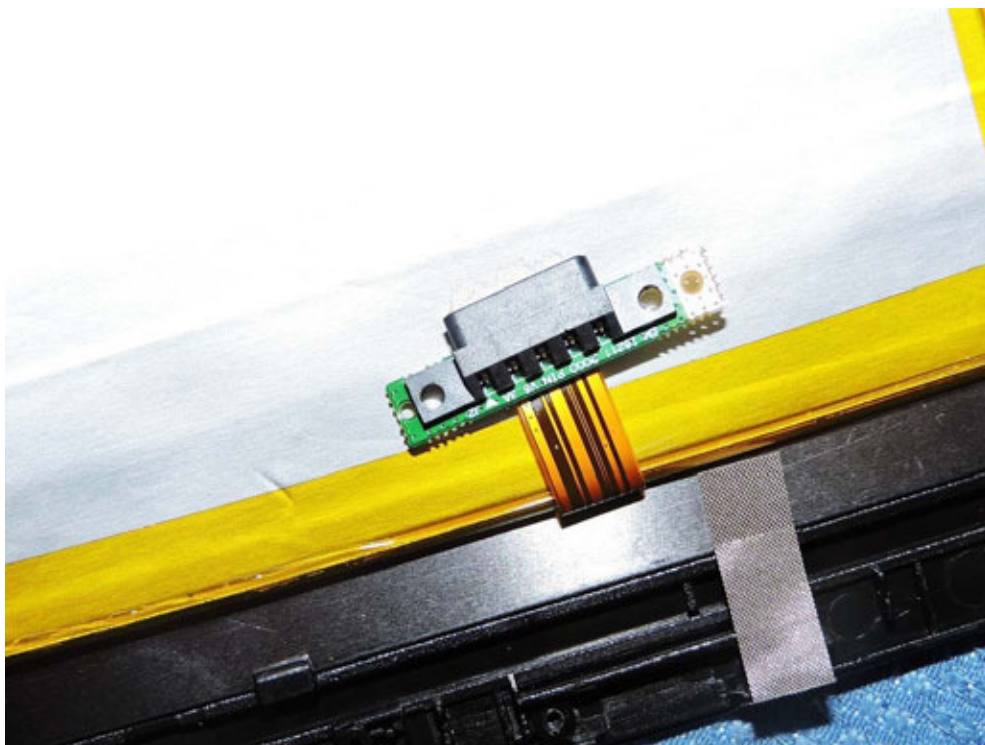
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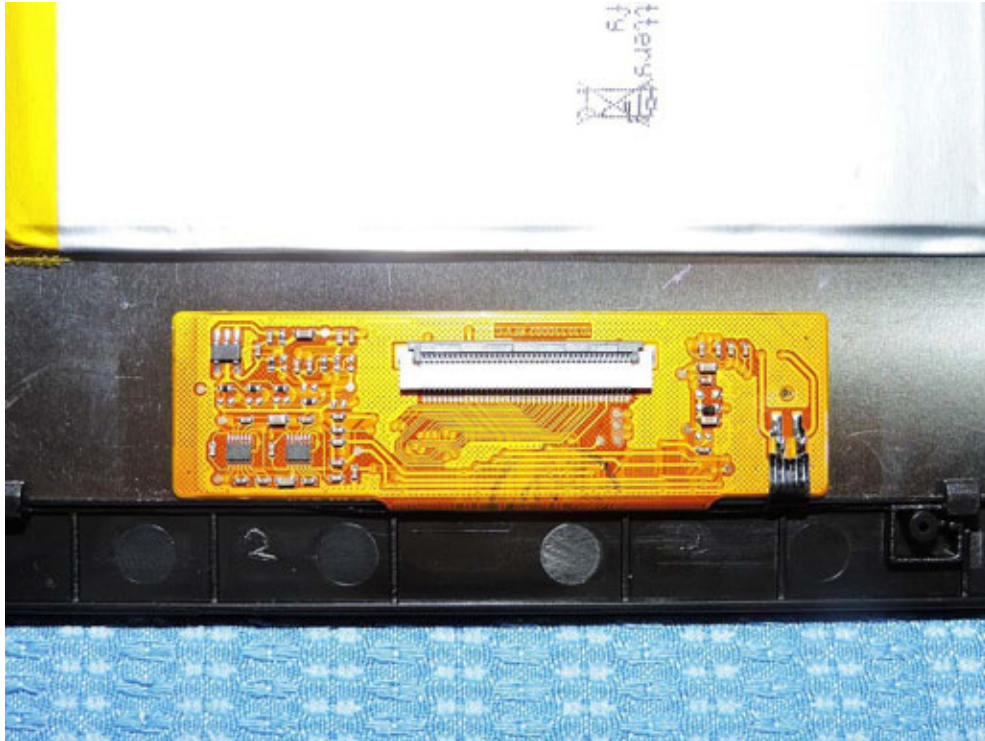
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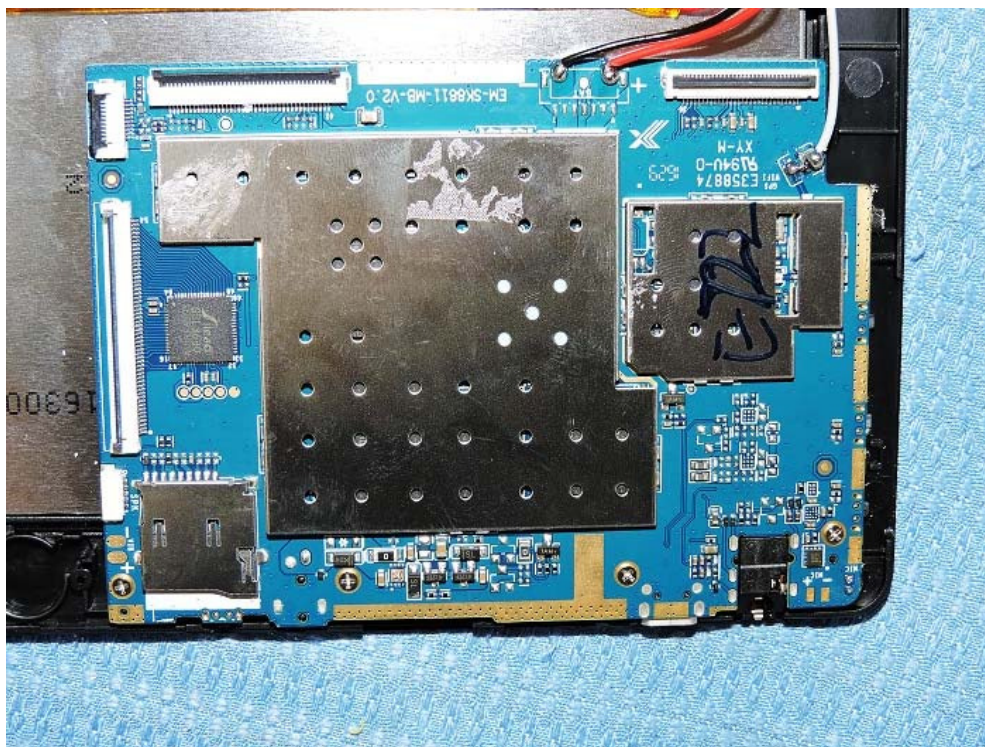
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Inside view-Configure b)



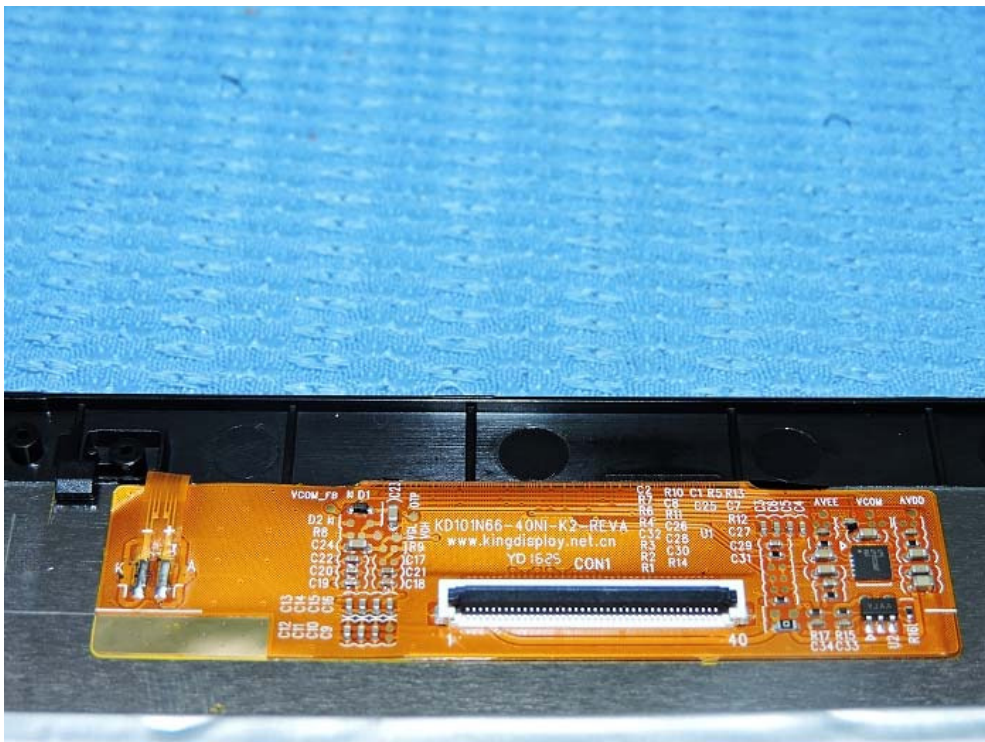
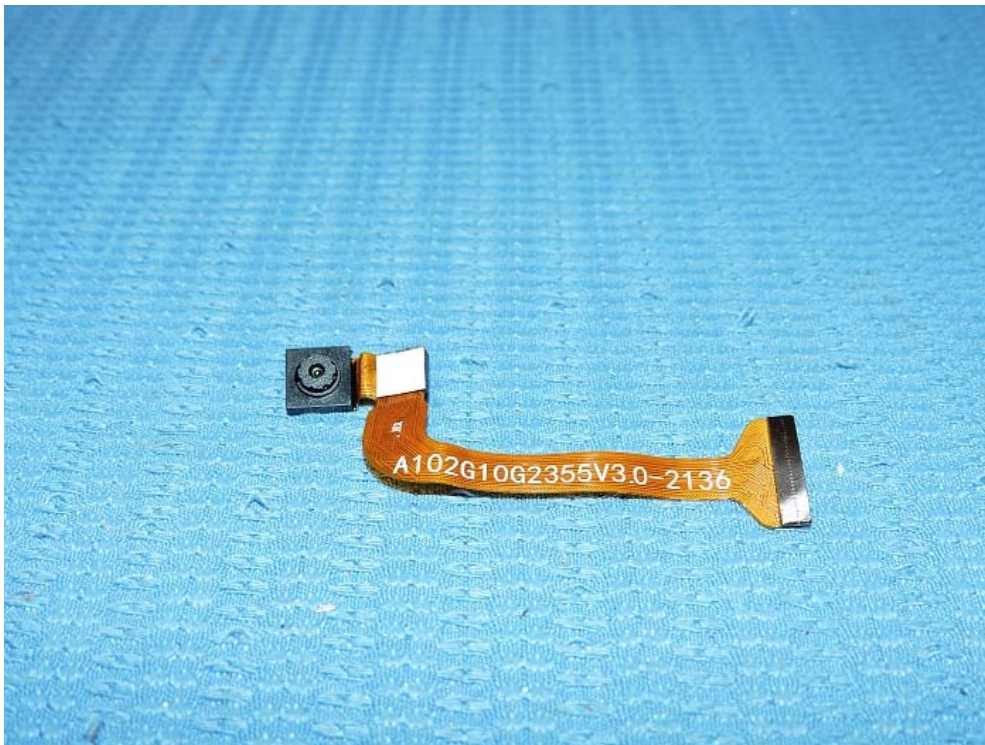
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Inside view-Configure b)



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Inside view- Configure b)



End of the report

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