

TECHNICAL REPORT



Report No: FCC1706170-03

File reference No: 2017-07-10

Applicant: Shenzhen Jingwah Information Technology Co., Ltd.

Product: Tablet PC

Model No: ST7150, P7100, EM795, T7000, M710R

Trademark: Polaroid, Emerson, Packard Bell, Smartab

Test Standards: FCC Part 15 Subpart B

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 10, 2017

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
Content

1.0	General Details	4
1.1	Test Lab Details.....	4
1.2	Applicant Details.....	4
1.3	Description of EUT	4
1.4	Test Uncertainty.....	4
1.5	Submitted Sample.....	5
1.6	Test Duration.....	5
1.7	Test Engineer.....	5
2.0	List of Measurement Equipment	6
2.1	Conducted Emission Test.....	6
2.2	Radiated electromagnetic disturbance test.....	6
2.3	Auxiliary Equipment.....	6
3.0	Technical Details	7
3.1	Investigations Requested.....	7
3.2	Test Standards.....	7
4.0	Power line Conducted Emission Test	8
5.0	Radiated Disturbance Test	12
6.0	FCC ID Label	19
7.0	Photo of testing	20

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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, Jing Hua Square, Jinghua Street, Shennan Road Centre,
 Shenzhen, Guangdong, China
 Telephone: --
 Fax: --

1.3 Description of EUT

Product: Tablet PC
 Manufacturer: Shenzhen Jingwah Information Technology Co., Ltd.
 Address: 4F, Bldg, 4, Jing Hua Square, Jinghua Street, Shennan Road Centre,
 Shenzhen, Guangdong, China
 Brand Name: Polaroid, Emerson, Packard Bell, Smartab
 Model Number: ST7150
 Additional Model Number: P7100, EM795, T7000, M710R
 Power Adapter Model No.: TPA-95A050100UU
 Input: 100-240V, 50/60Hz, 0.15A; Output: 5V, 1000mA

Remark: 1. There are alternative manufacturers for USB cable and EMMC.

Name	Manufacturer	Model
USB Cable	Shenzhen Xinhuai Ronghui Technology Co,Ltd.	--
	DongGuan MinTai Electronic Co.,LTD	--
EMMC	Samsung	KLMAG2GE4A
	FORESEE	NCEMBSF9-16G
Note: During test, each configure are considered and tested. Only worst case are recorded in the test report		

2. There are two different layout for G-sensor I²C, OTG test, Volume adjustment and Amplifier enable.

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But the part placement is the same. Please see internal photos for the detail. For the different layout, We did relative tests and only worse cases were recorded in the test report

- 1.4 Submitted Sample: 2 Samples
- 1.5 Test Duration: 2017-06-19 to 2017-07-08
- 1.6 Test Uncertainty
Conducted Emissions Uncertainty =3.6dB
Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

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	2016.08.22	1Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2016.08.22	1Year
PULSE LIMITER	ESH3-Z2	100281	RS	2016.08.22	1Year
LISN	ESH3-Z5	100294	RS	2016.08.22	1Year
LISN	ESH3-Z5	100253	RS	2016.08.22	1Year

2.2 Radiated electromagnetic disturbance test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESVD	100008	RS	2016.08.22	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Amplifier	8447D	2727A05017	HP	2016.08.22	1Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2016.08.23	1Year
Horn Antenna	BBHA 9120D	9120D-631	Schwarebeck	2016.08.24	1Year
Horn Antenna	BBHA 9170	BBHA9170265	Schwarebeck	2016.08.24	1Year
Test Receiver	ESI26	838786/013	RS	2016.08.22	1Year

2.3 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Cable	FCC DOC/ ID
Passive Earphone	--	--	--	--	--
Mouse	M-F105	--	L.SELETRON	--	FCC DOC
TF	--	--	--	--	--
USB	--	--	Kingstone	--	FCC DOC
PC	R4	--	IBM	--	FCC DOC

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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

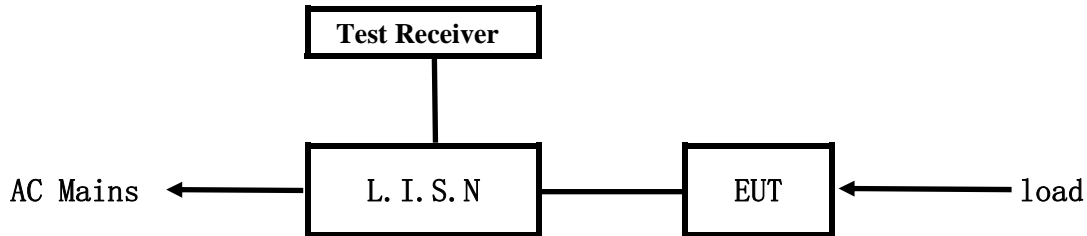
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4.0 Conducted Power line Test

4.1 Schematics of the test



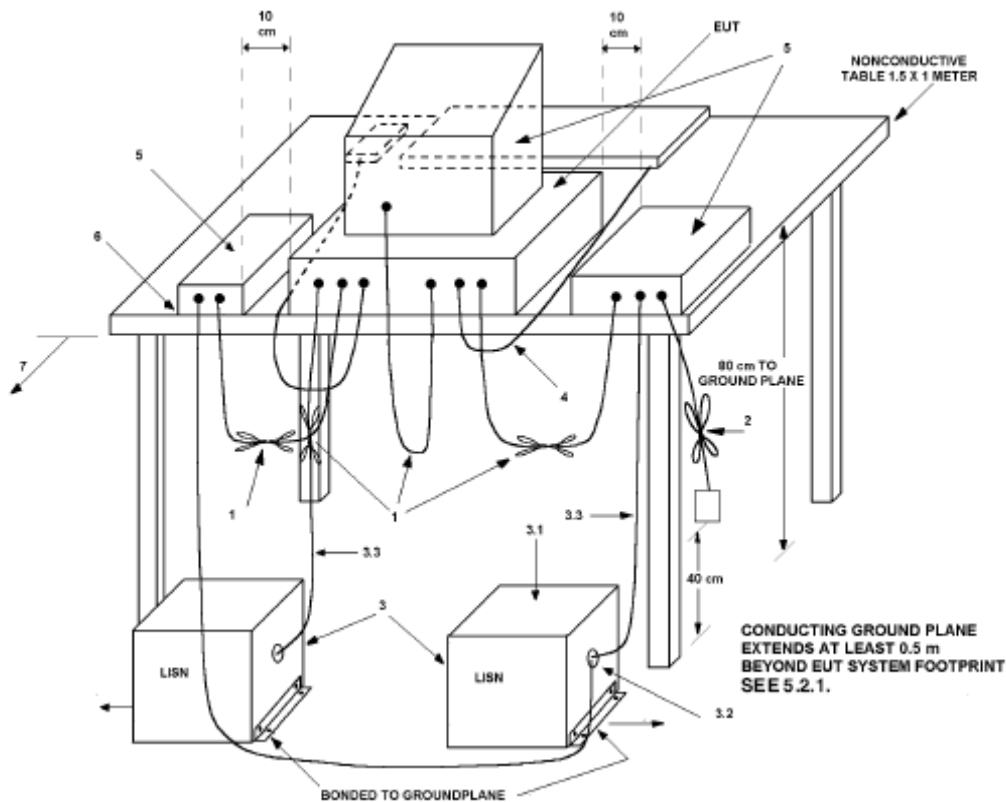
EUT: Equipment Under Test

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(μ V)		Class B Limits dB(μ V)	
	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

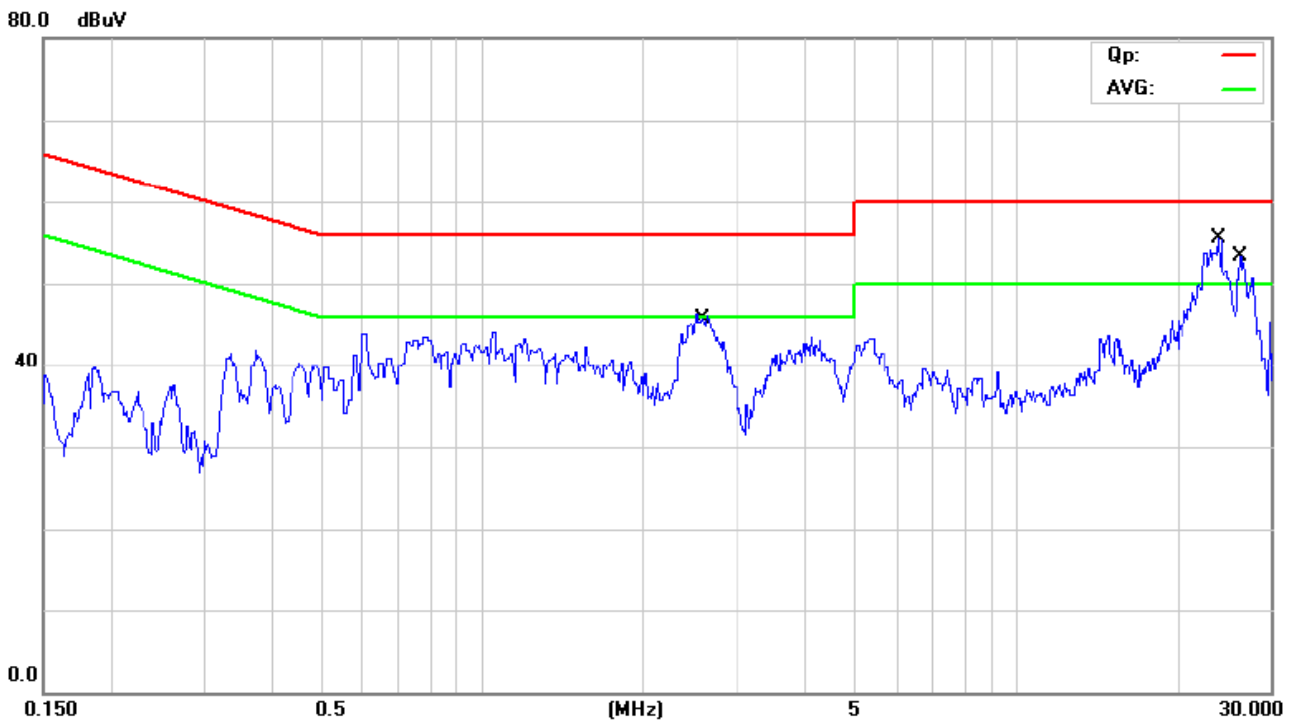
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

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		2.5634	30.50	10.87	41.37	56.00	-14.63	QP	
2		2.5634	18.30	10.87	29.17	46.00	-16.83	AVG	
3	*	24.0338	35.40	11.34	46.74	60.00	-13.26	QP	
4		24.0338	17.00	11.34	28.34	50.00	-21.66	AVG	
5		26.2285	33.50	11.38	44.88	60.00	-15.12	QP	
6		26.2285	17.20	11.38	28.58	50.00	-21.42	AVG	

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

EUT Operating Environment

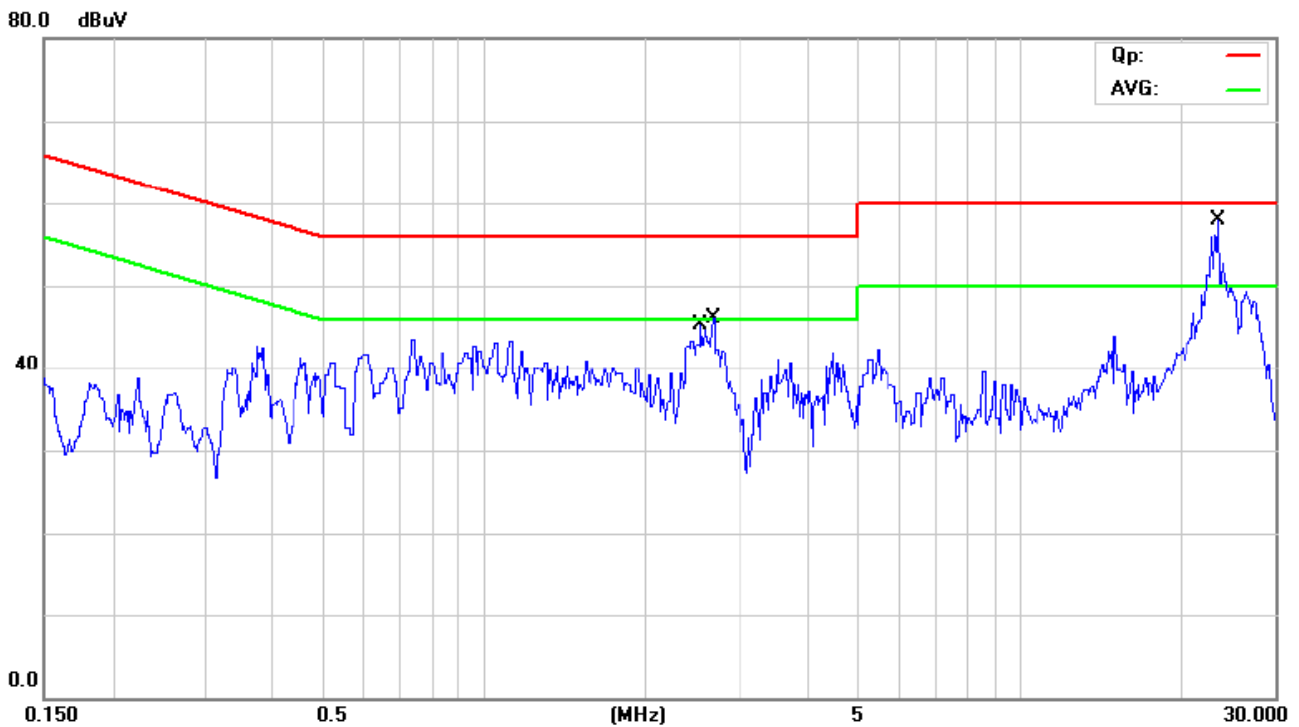
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication with PC

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



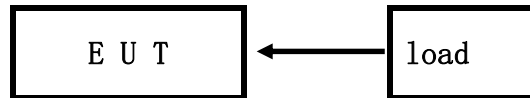
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		2.5288	27.20	10.87	38.07	56.00	-17.93	QP	
2		2.5288	6.50	10.87	17.37	46.00	-28.63	AVG	
3		2.6627	25.90	10.87	36.77	56.00	-19.23	QP	
4		2.6627	8.50	10.87	19.37	46.00	-26.63	AVG	
5	*	23.4556	32.70	11.31	44.01	60.00	-15.99	QP	
6		23.4556	14.50	11.31	25.81	50.00	-24.19	AVG	

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5.0 Radiated Disturbance Test

5.1 Schematics of the test

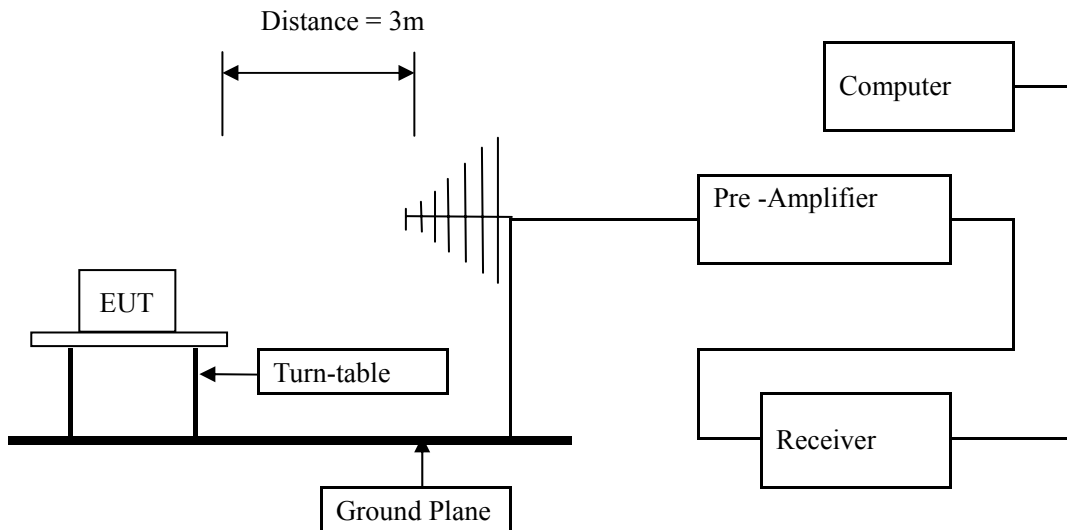


5.2 Test Method and test Procedure:

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

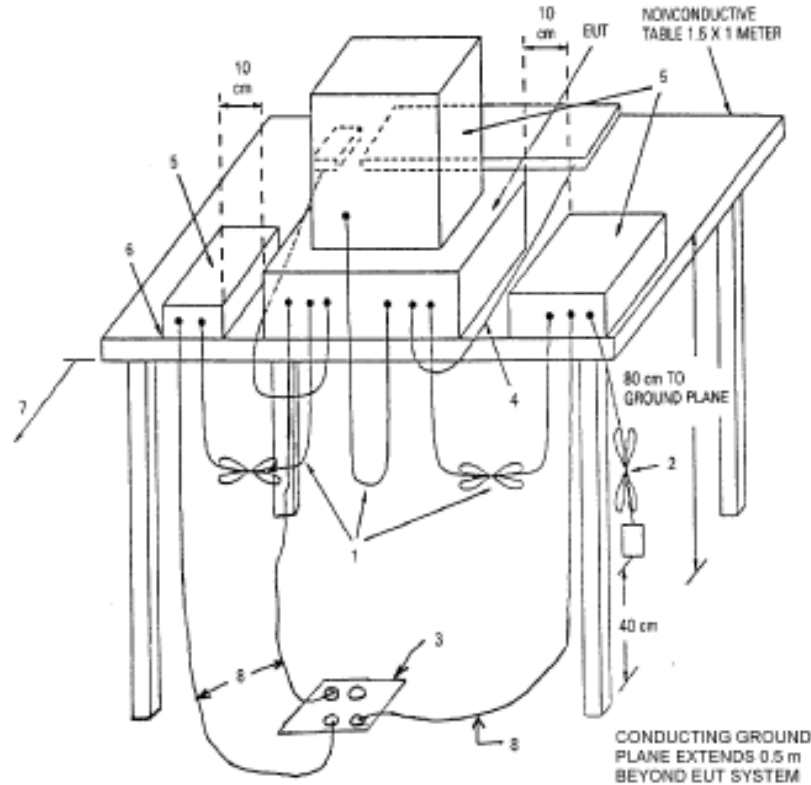
Block diagram of Test setup



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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: The lower limit shall apply at the transition frequencies

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)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
180.000	38.36	H	43.50
936.000	41.27	H	46.00
396.000	40.88	H	46.00
204.000	38.45	H	46.00
108.000	32.64	V	43.50
933.840	40.08	V	46.00
360.000	37.09	V	46.00
180.000	34.89	V	43.50

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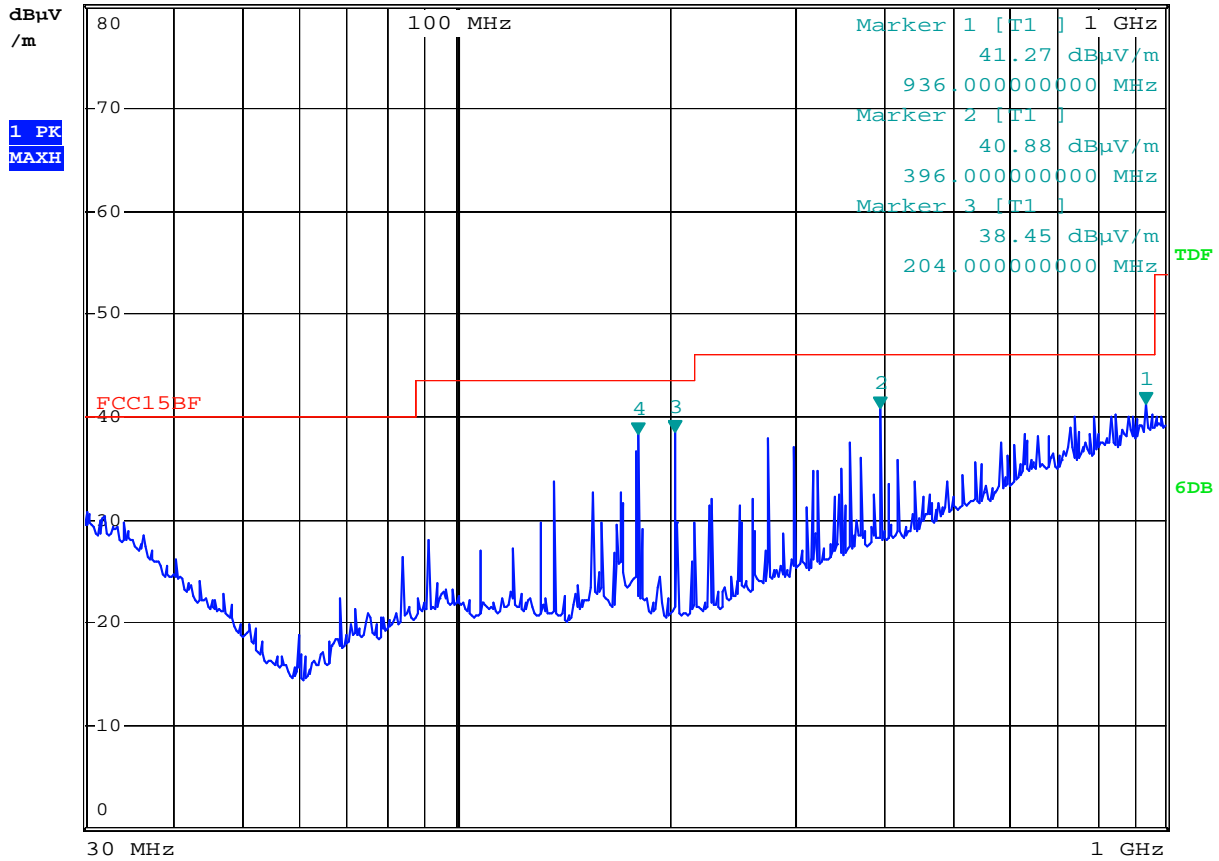
Test Figure:

H



MARKER 4
 180 MHz
 Att 10 dB

RBW 120 kHz Marker 4 [T1]
 MT 50 μs 38.36 dBμV/m
 PREAMP ON 180.000000000 MHz



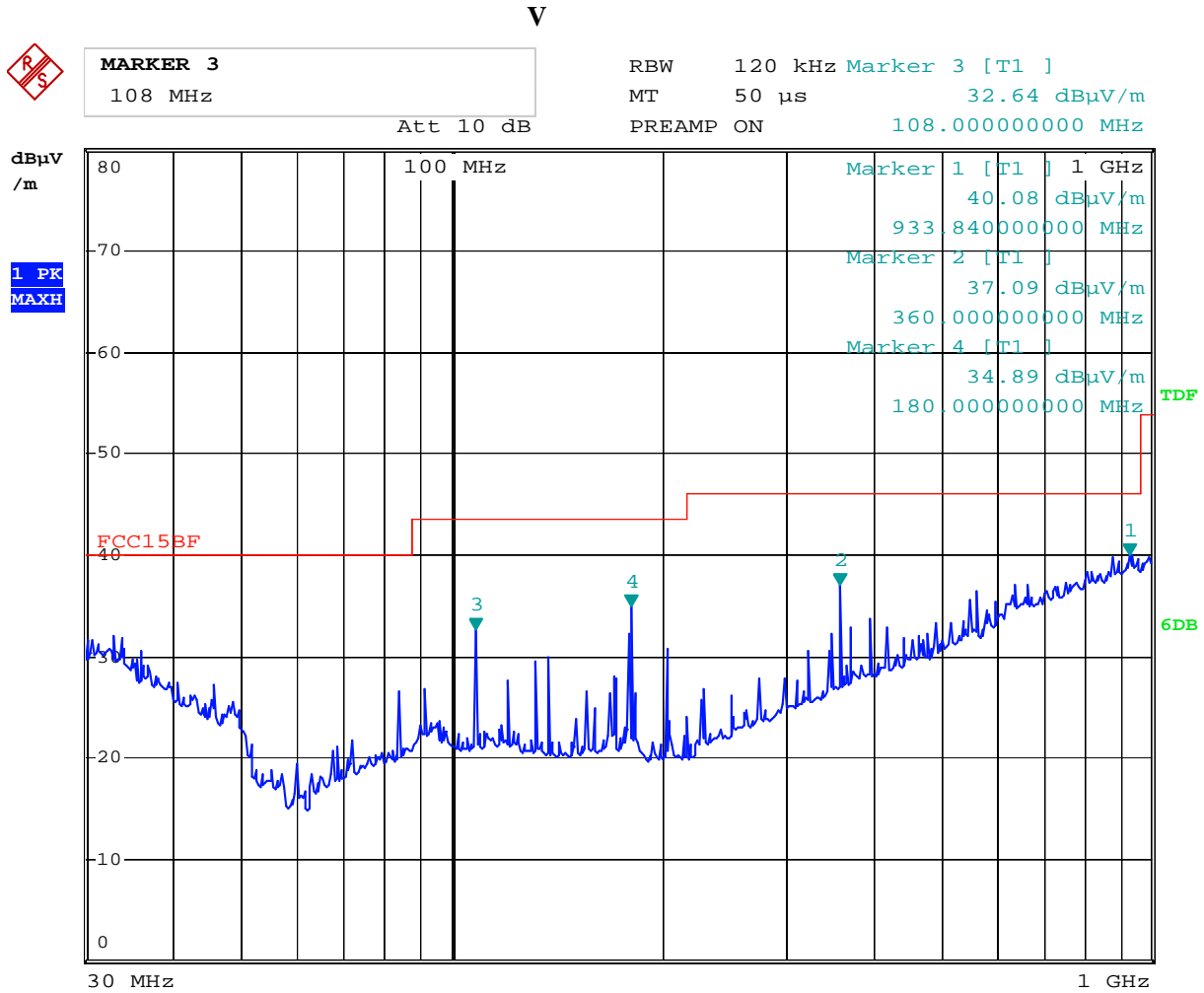
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Test Figure:



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

EUT Operating Environment

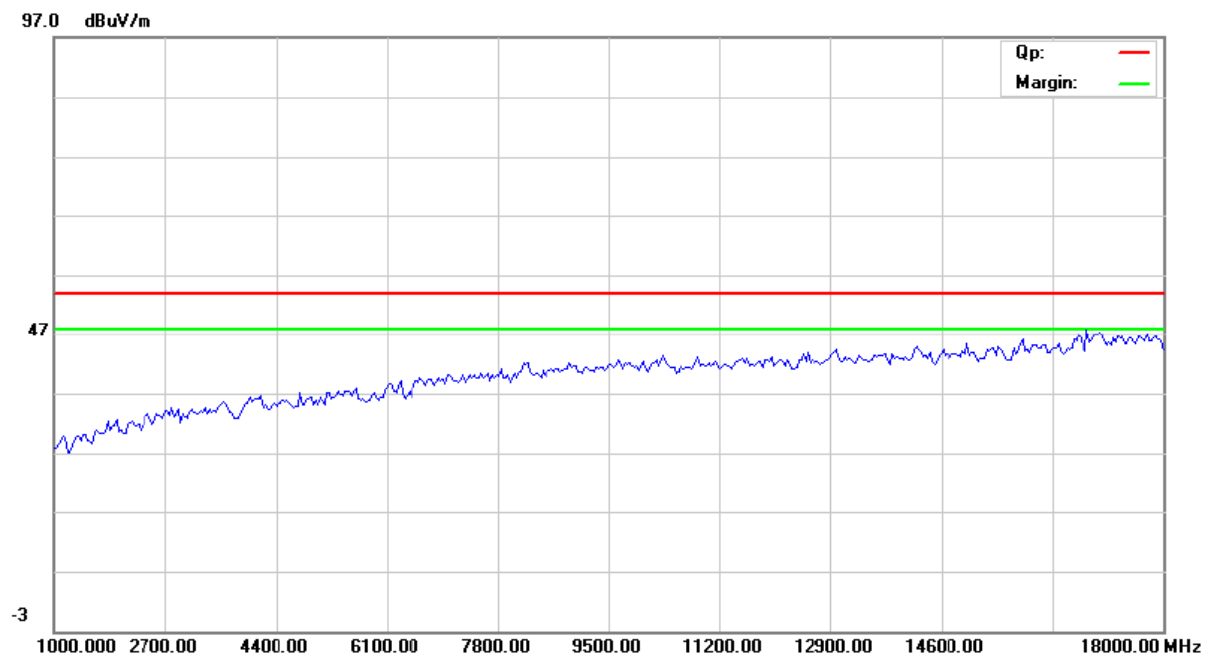
Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication with PC

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/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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Radiated Disturbance (1000MHz----18000MHz)

EUT Operating Environment

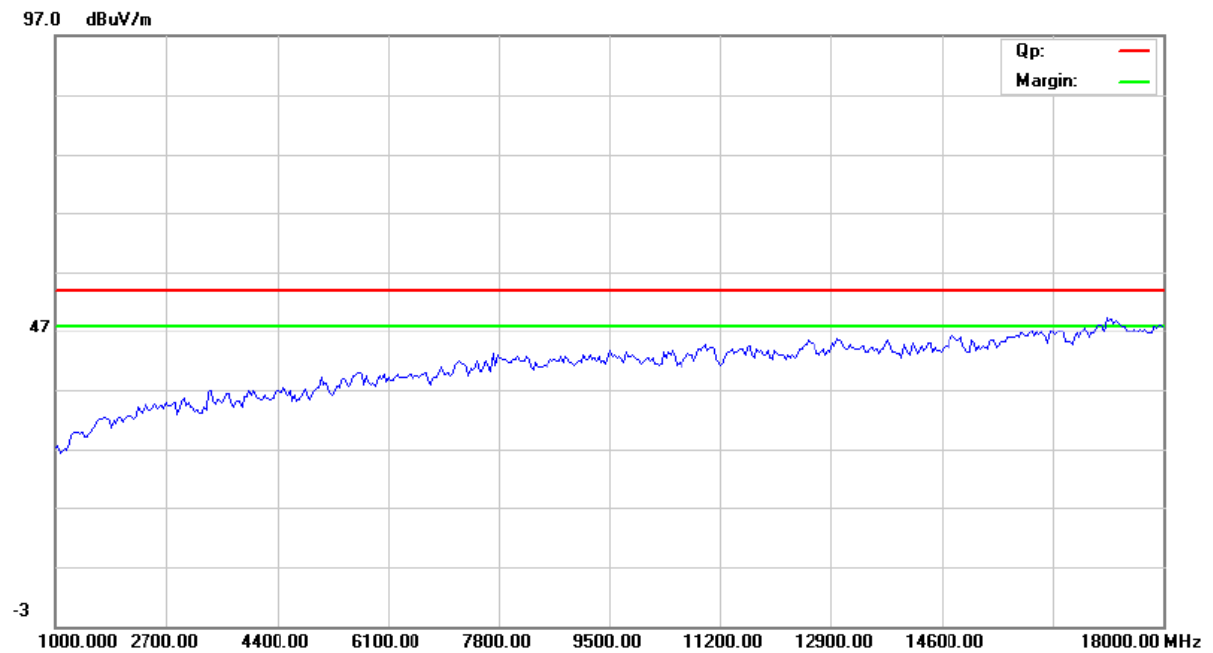
Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication with PC

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/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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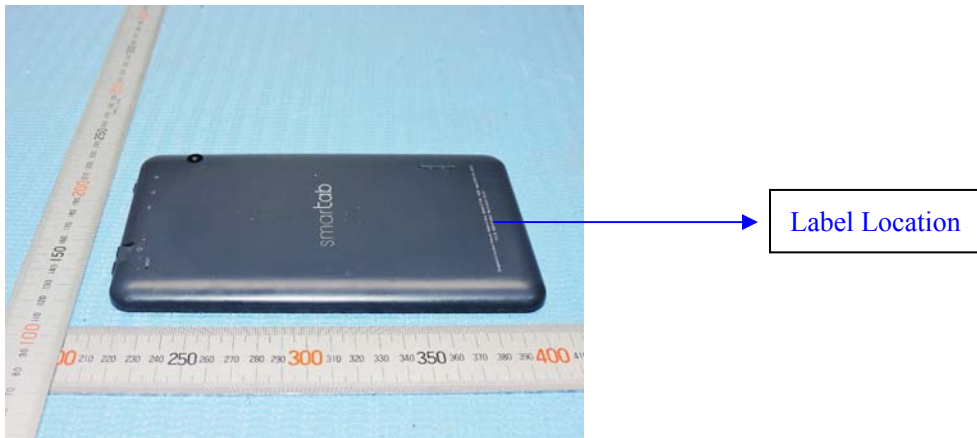


6.0 FCC ID Label

FCC ID: RBD-M710R2

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--



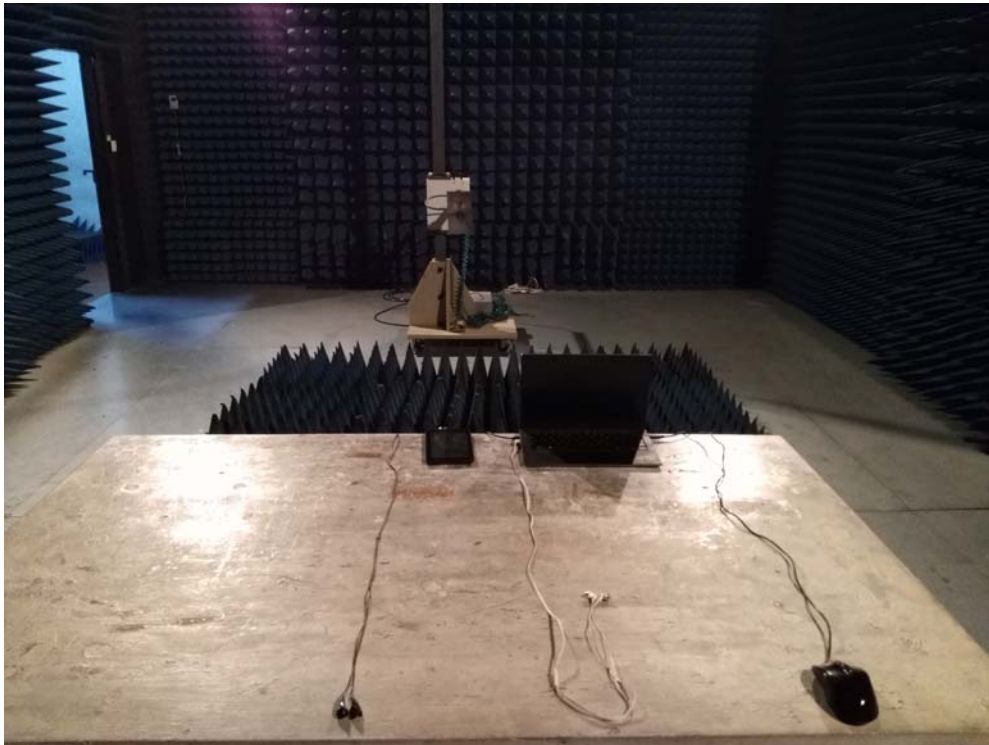
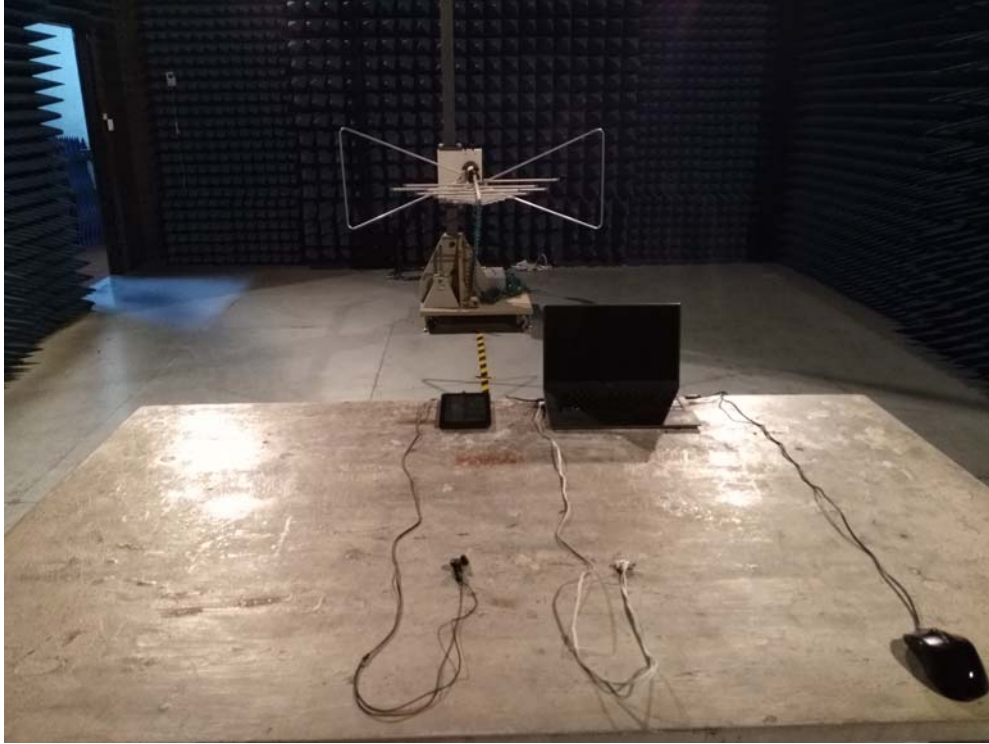
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7.2 Radiated emission test view--



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Photographs – EUT

Outside view



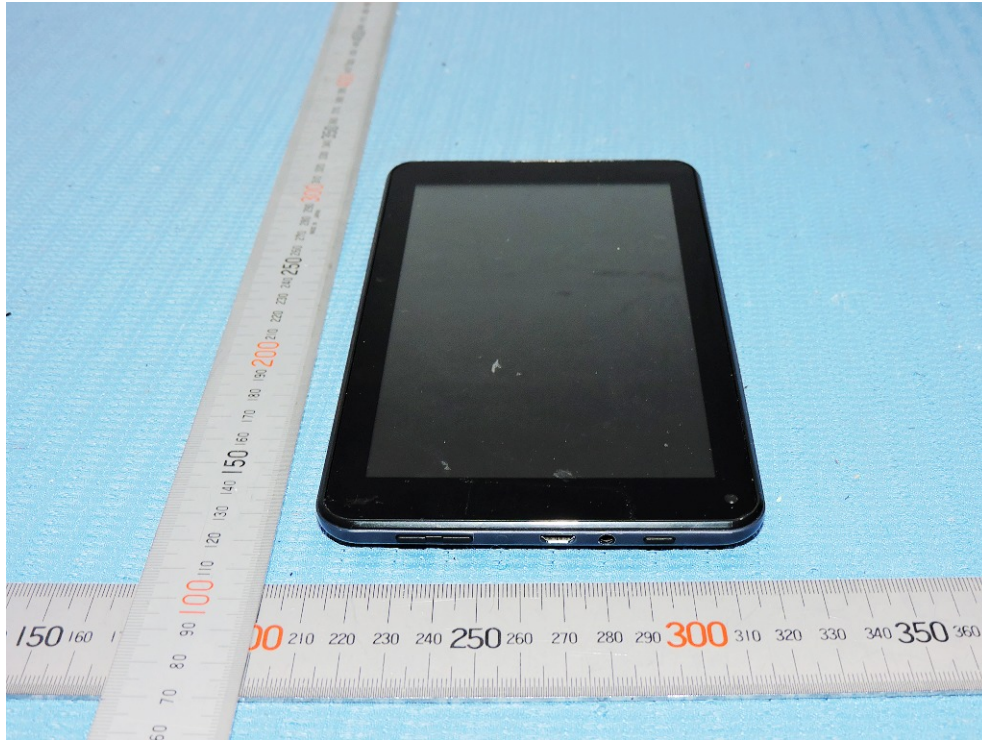
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Outside view



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Outside view



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Outside view



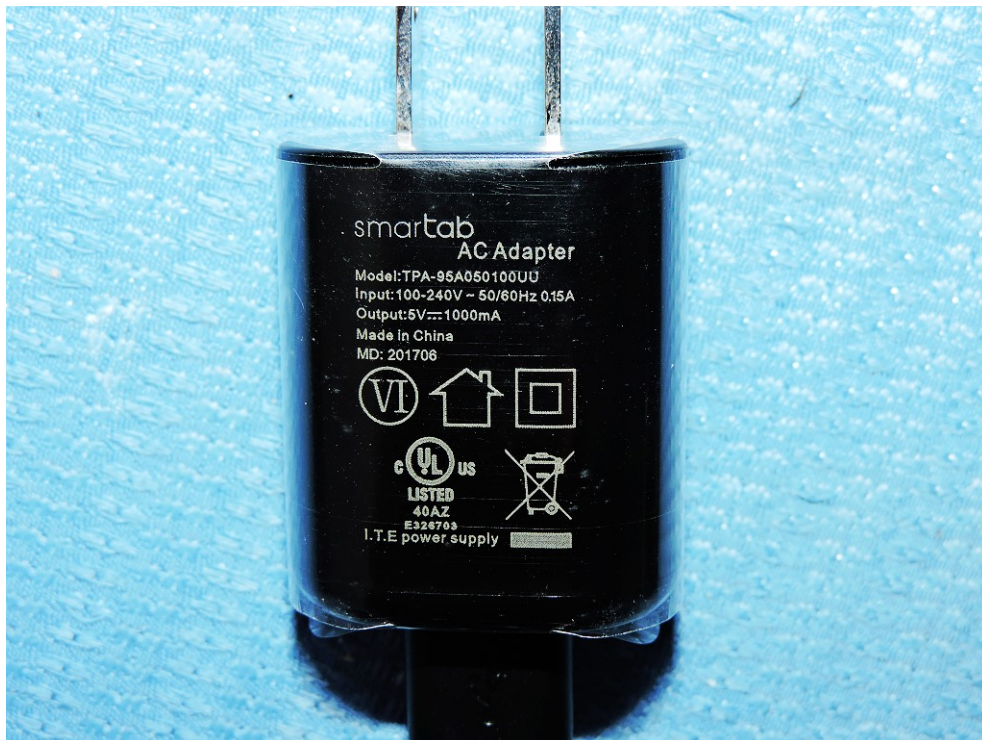
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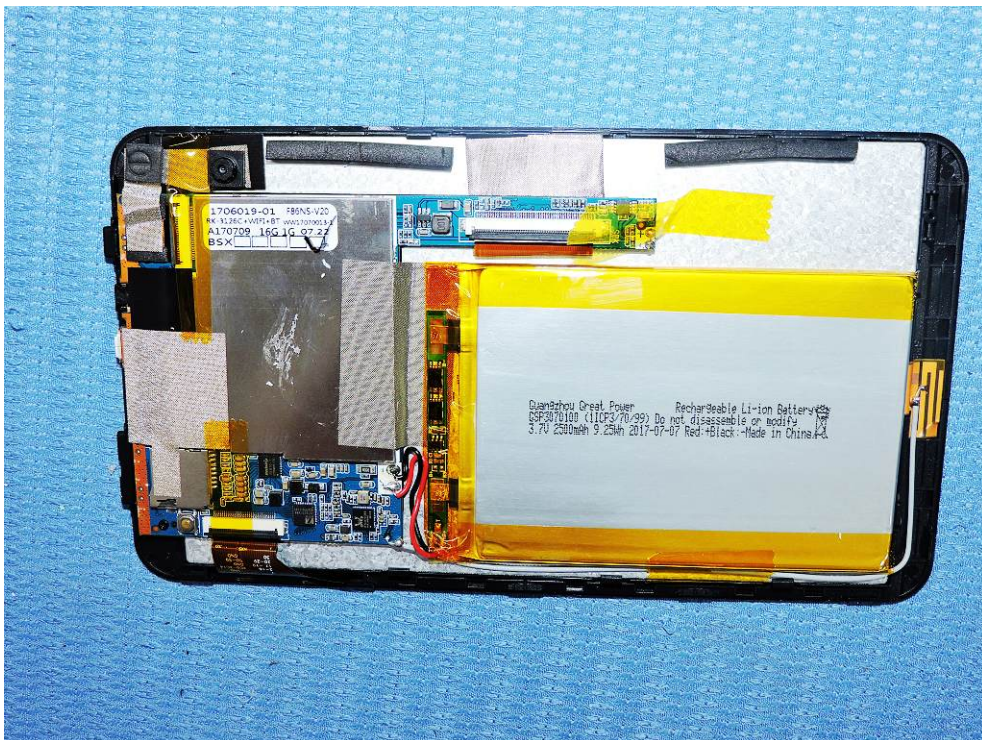
Outside view



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Inside view



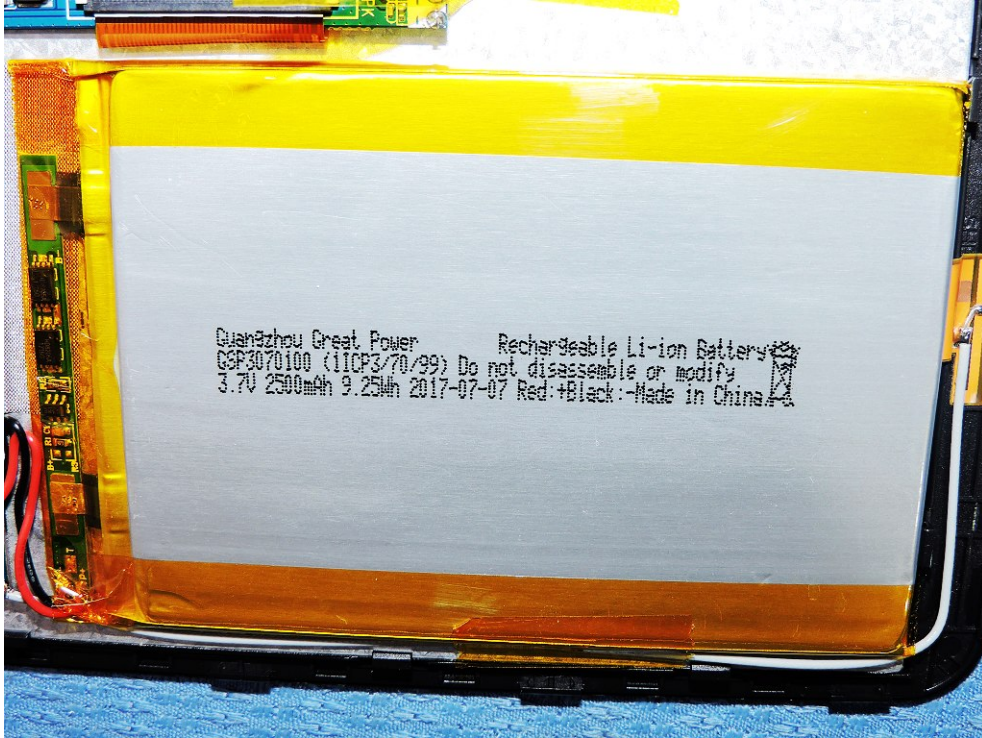
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Inside view

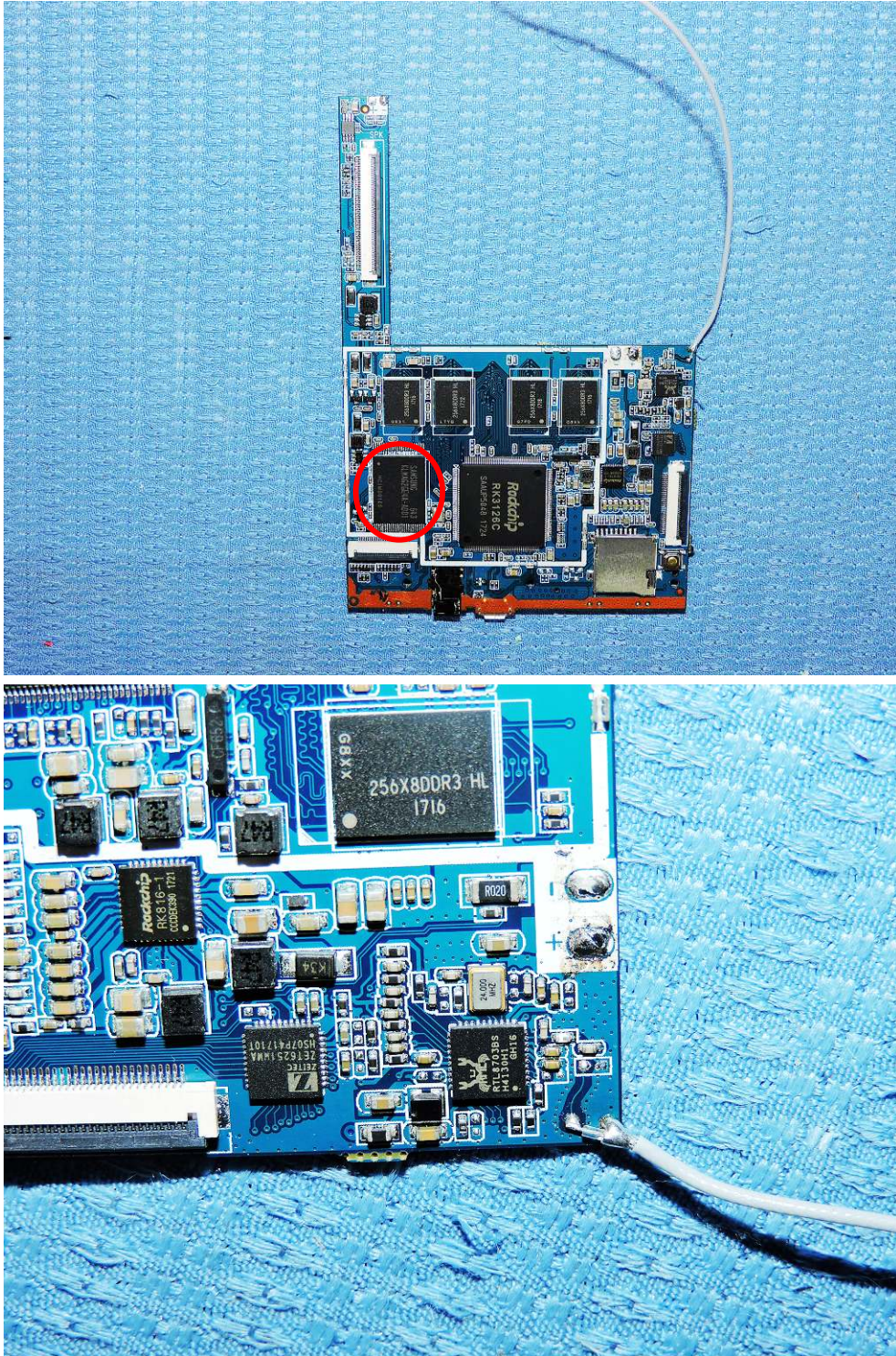


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Inside view
Main Board with Samsung's EMMC



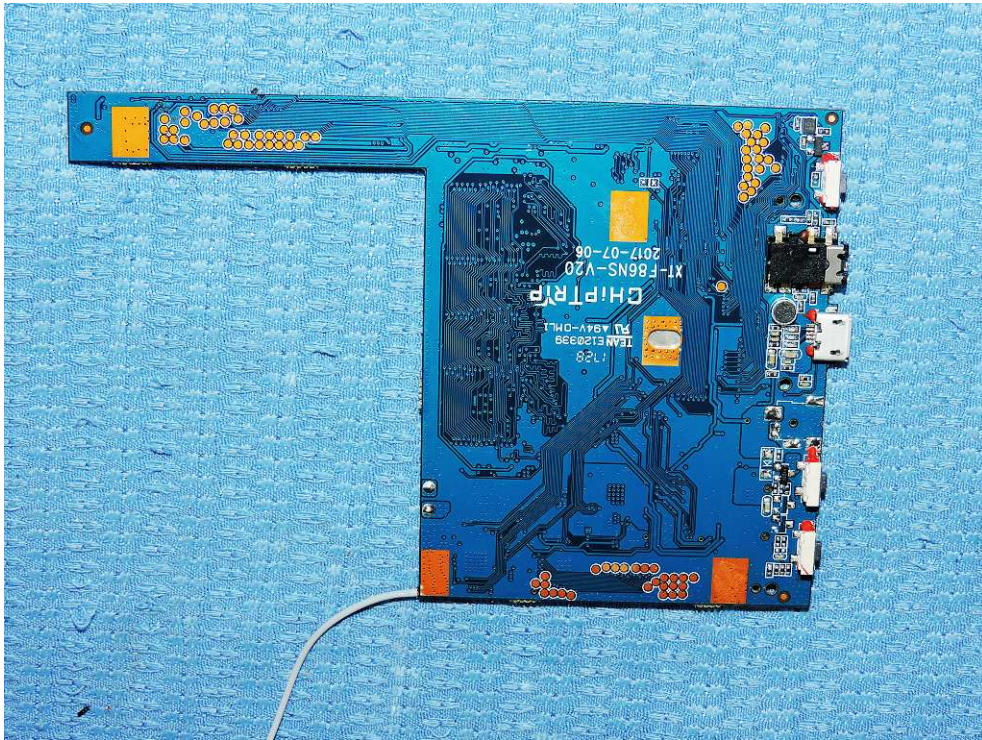
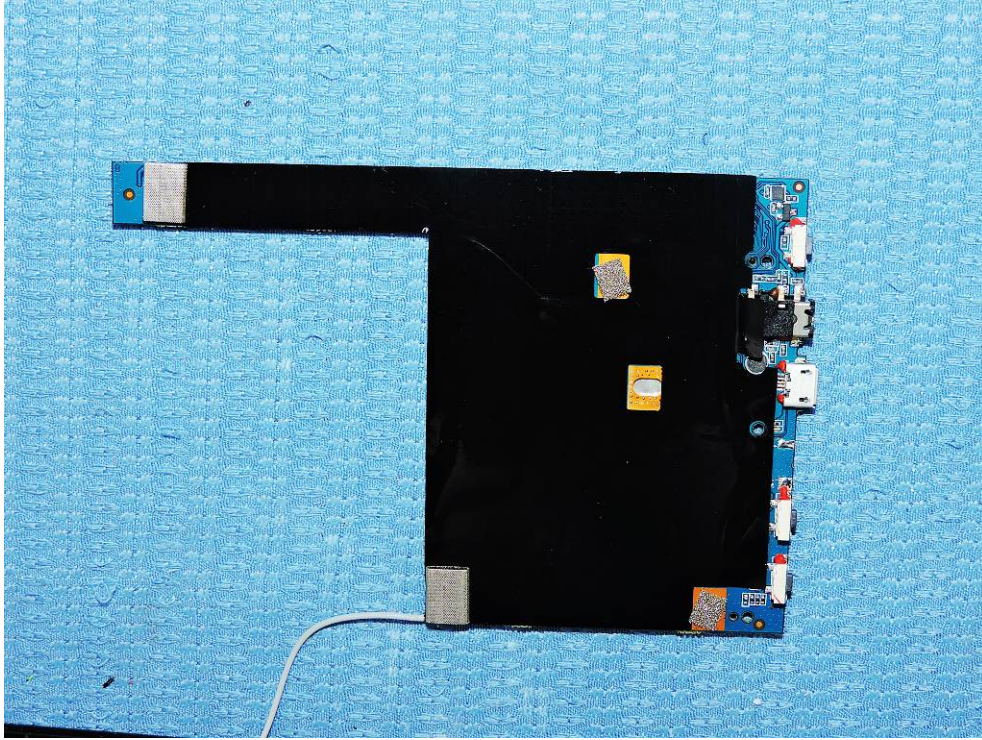
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Inside view



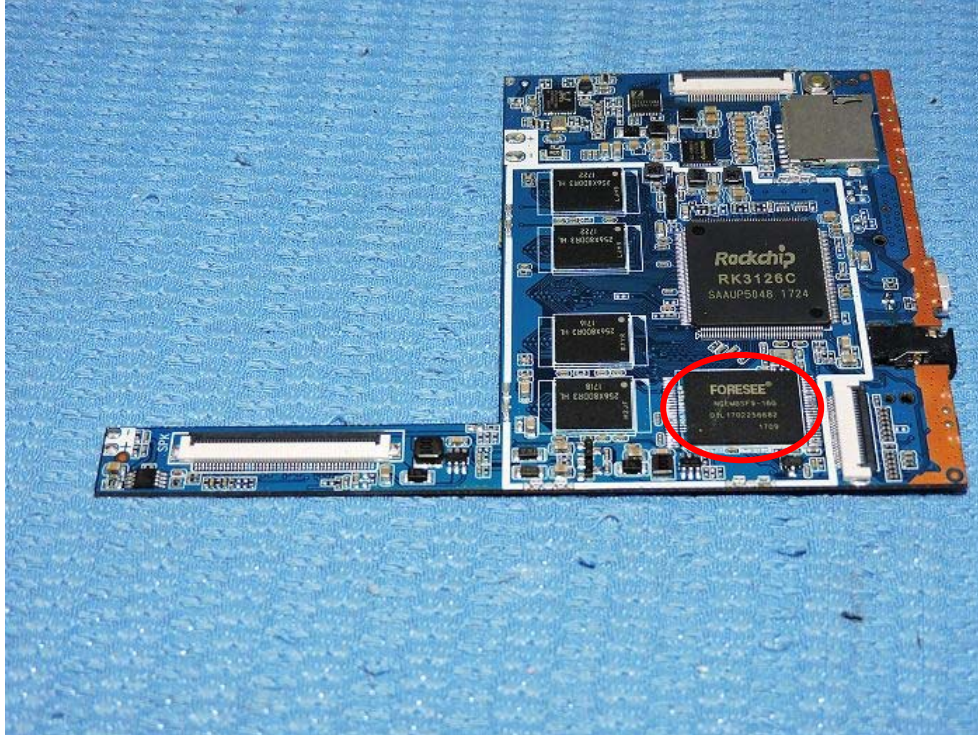
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Inside view
Main Board with FORESEE's EMMC



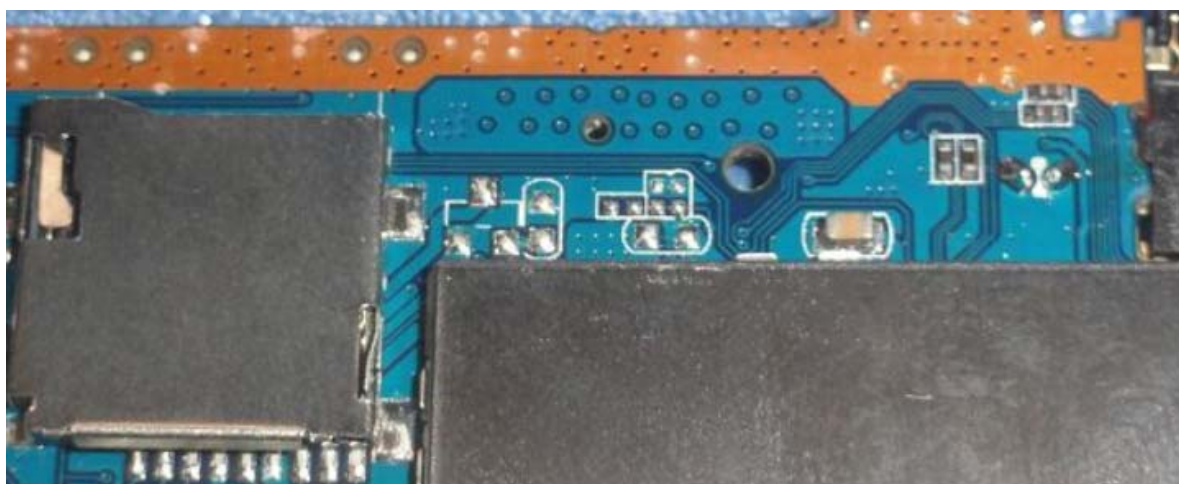
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Internal Photos-different layout for G-sensor I²C, OTG test, Volume adjustment and Amplifier enable



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