

TEST REPORT

Applicant: TAE Electronics CO., LTD

Address of Applicant: No.8 Area D Xiongxing Industrial Park, Gaoxing District,
Qingyuan city, Guangdong province, China

Equipment Under Test (EUT)

Product Name: Tablet PC

Model No.: V1003, M1003, M1004, M1005, M1006, MA1001, MA1002,
MA1003, MA1004

FCC ID: 2AAB3V1003

Applicable standards: FCC CFR Title 47 Part 15 Subpart B:2012

Date of sample receipt: May 14, 2013


Date of Test: May 14-17, 2013

Date of report issue: May 20, 2013

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Robinson Lo

Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	May 20, 2013	Original

Prepared By:

hank. yan

Date:

May 20, 2013

Project Engineer

Check By:

Hans. Hu

Date:

May 20, 2013

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part15.107	PASS
Radiated Emissions	Part15.109	PASS

PASS: The EUT complies with the essential requirements in the standard.

5 General Information

5.1 Client Information

Applicant:	TAE Electronics CO., LTD
Address of Applicant:	No.8 Area D Xiongxing Industrial Park, Gaoxing District, Qingyuan city, Guangdong province,China
Manufacturer :	TAE Electronics CO., LTD
Address of Manufacturer :	No.8 Area D Xiongxing Industrial Park, Gaoxing District, Qingyuan city, Guangdong province,China

5.2 General Description of EUT

Product Name:	Tablet PC
Model No.:	V1003, M1003, M1004, M1005, M1006, MA1001, MA1002, MA1003, MA1004
Remark:	Only the Model No. V1003 was tested, since the electrical circuit design, PCB layout, Electrical Parts and Figure are identical to the basic model except the model name and appearance color for commercial purpose.
Power supply:	Model No. :JOD-050200 Input: AC 100-240V 50/60Hz 0.3A Output: DC 5.0V 2.0A Or DC 3.7V Li-ion Battery

5.3 Test mode

Test mode:	
Playing mode	Keep the EUT in Playing mode
Video Record mode	Keep the EUT in Video Recording mode
PC mode	Keep the EUT in exchanging data mode.
HDMI mode	Keep the EUT in video playing with HDMI output mode.

5.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS —Registration No.: CNAS L5775**

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **FCC —Registration No.: 600491**

Global United Technology Services Co., Ltd., Shenzhen 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 files. Registration 600491, July 20, 2010.

- **Industry Canada (IC)**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-1.

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

Tel: 0755-27798480

Fax: 0755-27798960

5.6 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
HP	Printer	CB495A	05257893	DoC
DELL	PC	OPTIPLEX745	GTS312	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
PHILIPS	LCD TV	19PFL3120/T3	AU1A1212002906	DoC

5.7 Deviation from Standards

Biconical, log.per. antenna and horn antenna were used instead of dipole antenna.
Semi-anechoic Chamber was used as alternation of open air test sites, and all test suites were performed with radiated method in it.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.0(L)*6.0(W)* 6.0(H)	GTS250	Mar. 29 2013	Mar. 28 2014
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	ESU EMI Test Receiver	R&S	ESU26	GTS203	Jul. 07 2012	Jul. 06 2013
4	BiConiLog Antenna	SCHWARZBECK	VULB9163	GTS214	Mar. 09 2013	Mar. 08 2014
5	Double -ridged waveguide horn	SCHWARZBECK	9120D	GTS208	Mar. 9 2013	Mar. 08 2014
6	RF Amplifier	HP	8347A	GTS204	Jul. 07 2012	Jul. 06 2013
7	Preamplifier	HP	8349B	GTS206	Jul. 07 2012	Jul. 06 2013
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial cable	GTS	N/A	GTS210	Jul. 07 2012	Jul. 06 2013
10	Coaxial Cable	GTS	N/A	GTS211	Jul. 07 2012	Jul. 06 2013
11	Thermo meter	N/A	N/A	GTS256	Jul. 07 2012	Jul. 06 2013

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Sep. 08 2011	Sep. 07 2013
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 03 2012	Jul. 02 2013
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 03 2012	Jul. 02 2013
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jul. 03 2012	Jul. 02 2013
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 03 2012	Jul. 02 2013
6	Coaxial Cable	GTS	N/A	GTS227	Jul. 03 2012	Jul. 02 2013
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	Barometer	ChangChun	DYM3	GTS257	July 10 2012	July 09 2013

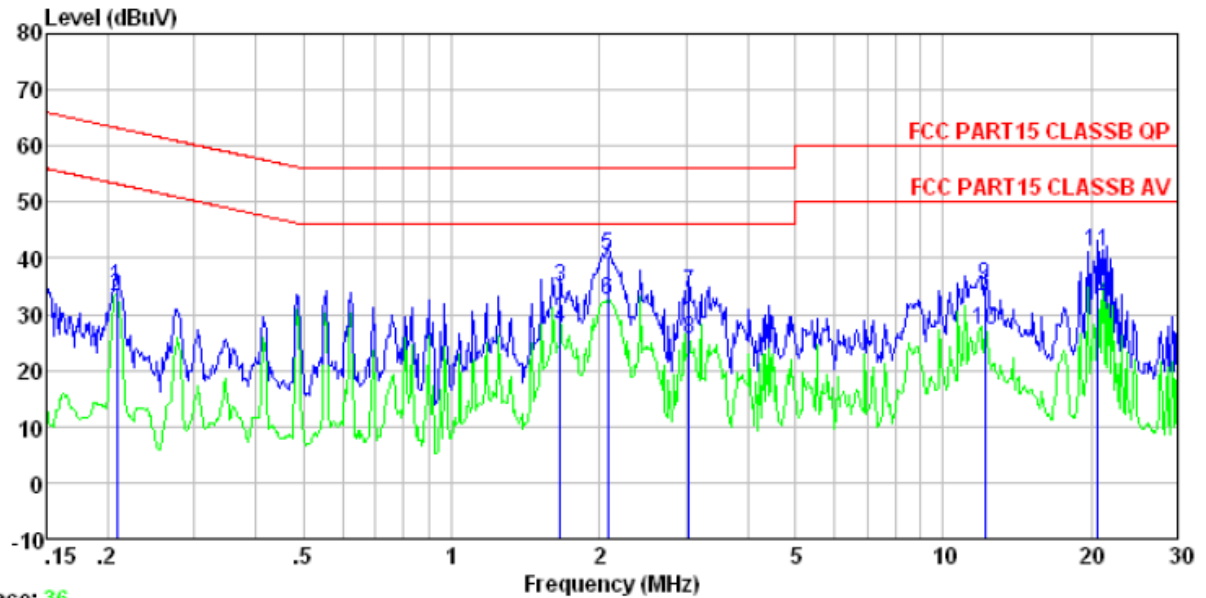
7 Test Results and Measurement Data

7.1 Conducted Emissions

Test Requirement:	FCC Part15 B Section 15.107														
Test Method:	ANSI C63.4:2003														
Test Frequency Range:	150KHz to 30MHz														
Class / Severity:	Class B														
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto														
Limit:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table> <p>* Decreases with the logarithm of the frequency.</p>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test setup:	<div><p style="text-align: center;">Reference Plane</p></div> <p><i>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</i></p>														
Test procedure:	<ol style="list-style-type: none">1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.														
Test Instruments:	Refer to section 6 for details														
Test mode:	Pre-scan all modes in section 5.3, and found the PC mode which is the worst mode, so only the data of worst mode was show on the test report.														
Test results:	Pass														

Measurement Data

Line:



Trace: 36

Condition : FCC PART15 CLASSB QP LISN-2012 LINE

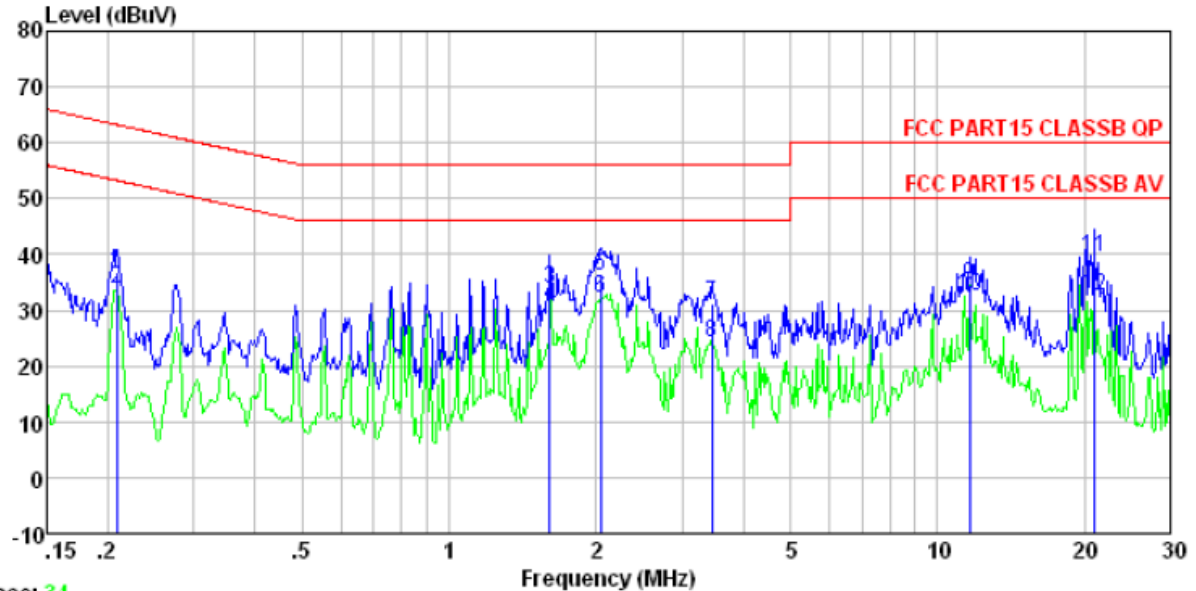
Job No. : 560RF

Test mode : PC mode

Test Engineer: Jim

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.208	35.11	-0.23	0.10	34.98	63.27	-28.29	QP
2	0.208	33.23	-0.23	0.10	33.10	53.27	-20.17	Average
3	1.662	34.80	-0.23	0.10	34.67	56.00	-21.33	QP
4	1.662	27.82	-0.23	0.10	27.69	46.00	-18.31	Average
5	2.077	40.69	-0.24	0.10	40.55	56.00	-15.45	QP
6	2.077	32.59	-0.24	0.10	32.45	46.00	-13.55	Average
7	3.041	33.84	-0.25	0.10	33.69	56.00	-22.31	QP
8	3.041	25.79	-0.25	0.10	25.64	46.00	-20.36	Average
9	12.188	35.26	-0.45	0.20	35.01	60.00	-24.99	QP
10	12.188	27.33	-0.45	0.20	27.08	50.00	-22.92	Average
11	20.594	41.70	-0.64	0.21	41.27	60.00	-18.73	QP
12	20.594	33.68	-0.64	0.21	33.25	50.00	-16.75	Average

Neutral:



Trace: 34

Condition : FCC PART15 CLASSB QP LISN-2012 NEUTRAL
 Job No. : 560RF
 Test mode : PC mode
 Test Engineer: Jim

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.208	36.96	-0.09	0.10	36.97	63.27	-26.30	QP
2	0.208	33.87	-0.09	0.10	33.88	53.27	-19.39	Average
3	1.610	33.90	-0.10	0.10	33.90	56.00	-22.10	QP
4	1.610	30.87	-0.10	0.10	30.87	46.00	-15.13	Average
5	2.044	36.27	-0.11	0.10	36.26	56.00	-19.74	QP
6	2.044	32.33	-0.11	0.10	32.32	46.00	-13.68	Average
7	3.454	31.18	-0.13	0.10	31.15	56.00	-24.85	QP
8	3.454	24.22	-0.13	0.10	24.19	46.00	-21.81	Average
9	11.621	34.67	-0.31	0.20	34.56	60.00	-25.44	QP
10	11.621	32.72	-0.31	0.20	32.61	50.00	-17.39	Average
11	20.924	39.78	-0.55	0.21	39.44	60.00	-20.56	QP
12	20.924	32.81	-0.55	0.21	32.47	50.00	-17.53	Average

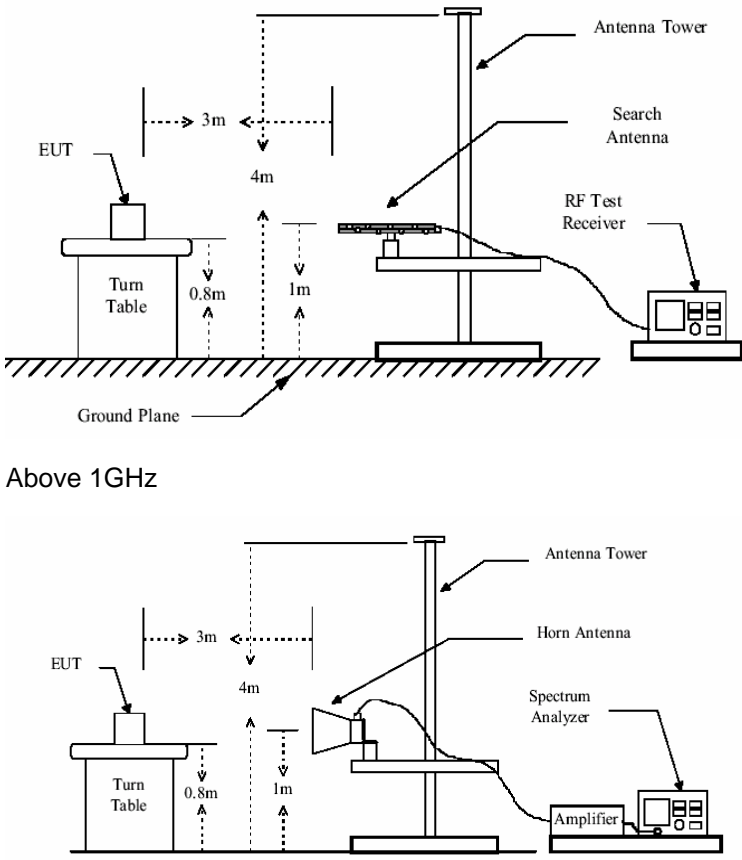
Remark: If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss

7.2 Radiated Emission

Test Requirement:	FCC Part15 B Section 15.109																																					
Test Method:	ANSI C63.4:2003																																					
Test Frequency Range:	30MHz to 6GHz																																					
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)																																					
Receiver setup:	<table><tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr><tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120kHz</td><td>300kHz</td><td>Quasi-peak Value</td></tr><tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr><tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr></table>					Frequency	Detector	RBW	VBW	Remark	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value	Above 1GHz	Peak	1MHz	3MHz	Peak Value	Peak	1MHz	10Hz	Average Value														
Frequency	Detector	RBW	VBW	Remark																																		
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value																																		
Above 1GHz	Peak	1MHz	3MHz	Peak Value																																		
	Peak	1MHz	10Hz	Average Value																																		
Limit:	<table><tr><td colspan="2">Frequency</td><td>Limit (dBuV/m @3m)</td><td colspan="2">Remark</td></tr><tr><td colspan="2">30MHz-88MHz</td><td>40.00</td><td colspan="2">Quasi-peak Value</td></tr><tr><td colspan="2">88MHz-216MHz</td><td>43.50</td><td colspan="2">Quasi-peak Value</td></tr><tr><td colspan="2">216MHz-960MHz</td><td>46.00</td><td colspan="2">Quasi-peak Value</td></tr><tr><td colspan="2">960MHz-1GHz</td><td>54.00</td><td colspan="2">Quasi-peak Value</td></tr><tr><td colspan="2" rowspan="2">Above 1GHz</td><td>54.00</td><td colspan="2">Average Value</td></tr><tr><td>74.00</td><td colspan="2">Peak Value</td></tr></table>					Frequency		Limit (dBuV/m @3m)	Remark		30MHz-88MHz		40.00	Quasi-peak Value		88MHz-216MHz		43.50	Quasi-peak Value		216MHz-960MHz		46.00	Quasi-peak Value		960MHz-1GHz		54.00	Quasi-peak Value		Above 1GHz		54.00	Average Value		74.00	Peak Value	
Frequency		Limit (dBuV/m @3m)	Remark																																			
30MHz-88MHz		40.00	Quasi-peak Value																																			
88MHz-216MHz		43.50	Quasi-peak Value																																			
216MHz-960MHz		46.00	Quasi-peak Value																																			
960MHz-1GHz		54.00	Quasi-peak Value																																			
Above 1GHz		54.00	Average Value																																			
		74.00	Peak Value																																			
Test Procedure:	<div>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div> <div>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</div> <div>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</div> <div>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div> <div>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</div>																																					
Test setup:	Below 1GHz																																					

	 <p>Above 1GHz</p>
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1 012mbar
Measurement Record:	Uncertainty: ± 4.5dB
Test Instruments:	Refer to section 6 for details
Test mode:	Pre-scan all modes in section 5.3, and found the PC mode which is the worst mode, so only the data of worst mode was show on the test report.
Test results:	Pass

Note:

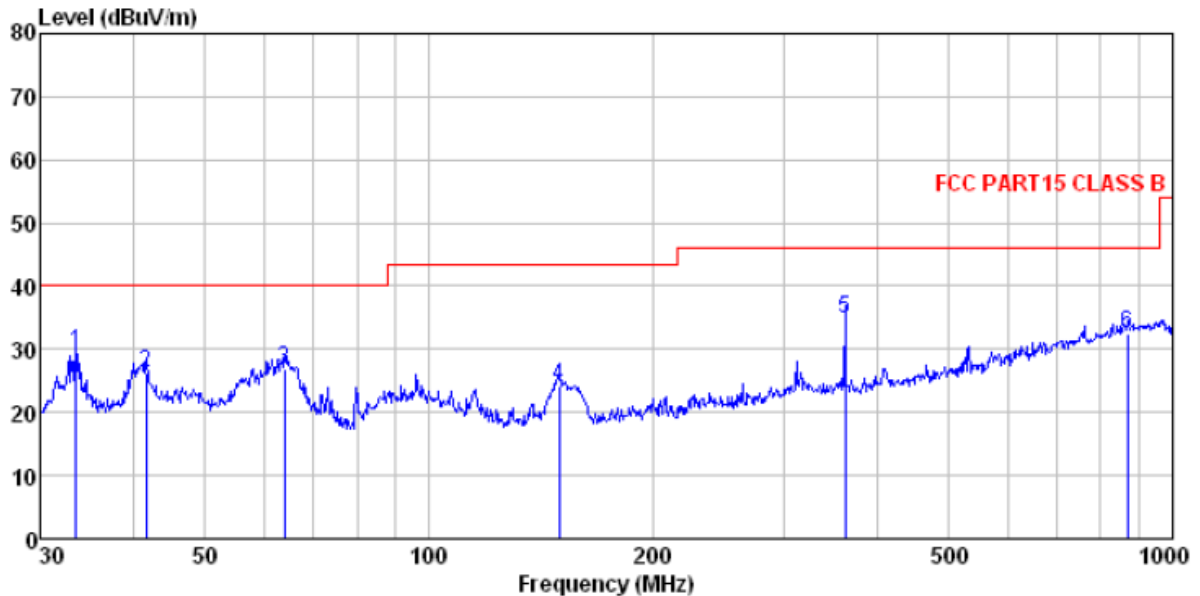
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

Measurement Data

Below 1GHz

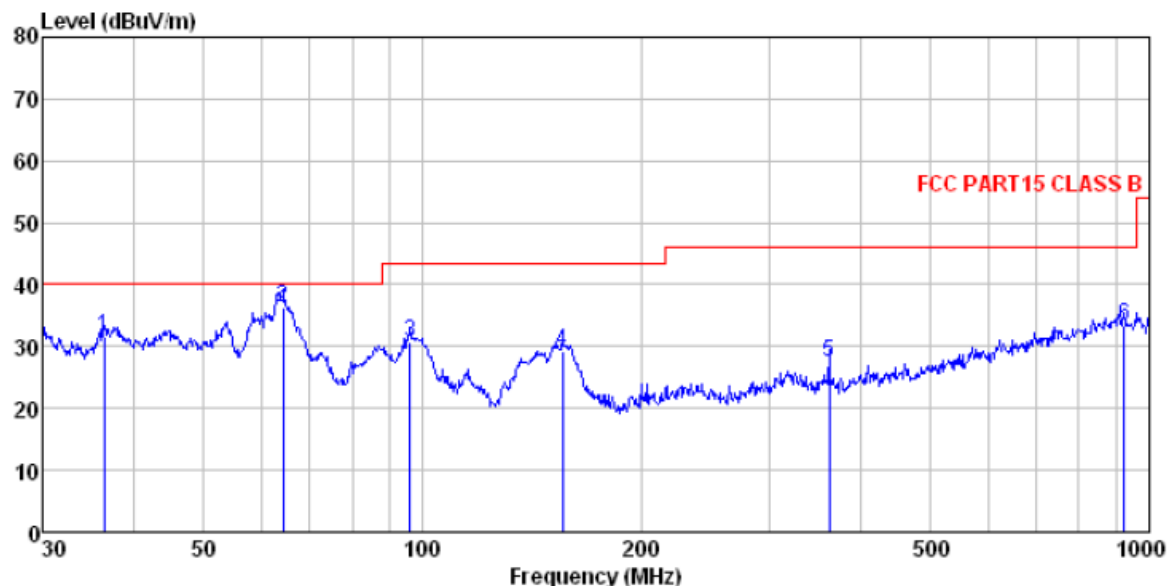
Horizontal:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163 -2012-05 HORIZONTAL
 Job No. : 560RF
 Test Mode : PC mode
 Test Engineer: Edward

	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	33.562	45.19	15.78	0.59	32.06	29.50	40.00	-10.50	QP
2	41.713	41.19	16.58	0.68	32.04	26.41	40.00	-13.59	QP
3	63.983	43.16	14.88	0.89	31.92	27.01	40.00	-12.99	QP
4	149.486	43.35	11.31	1.56	31.98	24.24	43.50	-19.26	QP
5	362.985	47.80	16.45	2.68	31.99	34.94	46.00	-11.06	QP
6	869.130	35.10	23.78	4.74	31.22	32.40	46.00	-13.60	QP

Vertical:

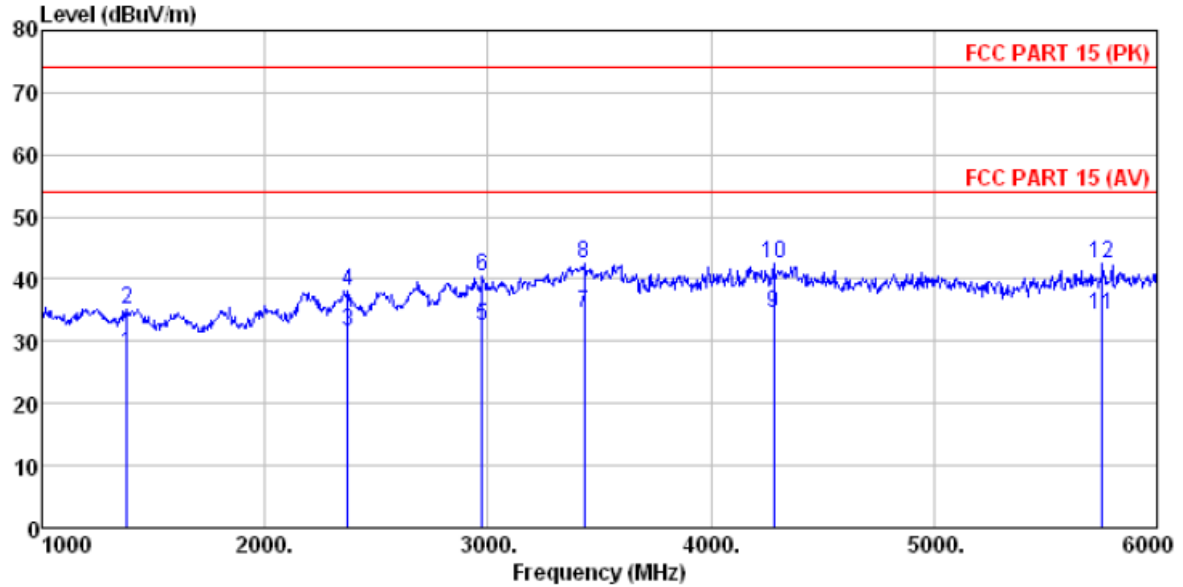


Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163 -2012-05 VERTICAL
 Job No. : 560RF
 Test Mode : PC mode
 Test Engineer: Edward

	ReadAntenna	Cable Preamp		Limit	Over	
Freq	Level Factor	Loss Factor	Level	Line	Limit	Remark
-----MHz-----	-----dBuV-----	-----dB/m-----	-----dB-----	-----dBuV/m-----	-----dBuV/m-----	-----dB-----
1	36.509	46.76	16.13	0.62	32.06	31.45 40.00 -8.55 QP
2	64.208	52.47	14.74	0.90	31.91	36.20 40.00 -3.80 QP
3	96.099	45.35	15.99	1.16	31.75	30.75 43.50 -12.75 QP
4	155.910	47.97	11.58	1.60	32.00	29.15 43.50 -14.35 QP
5	362.985	40.25	16.45	2.68	31.99	27.39 46.00 -18.61 QP
6	922.516	35.64	24.01	4.93	31.19	33.39 46.00 -12.61 QP

Above 1GHz

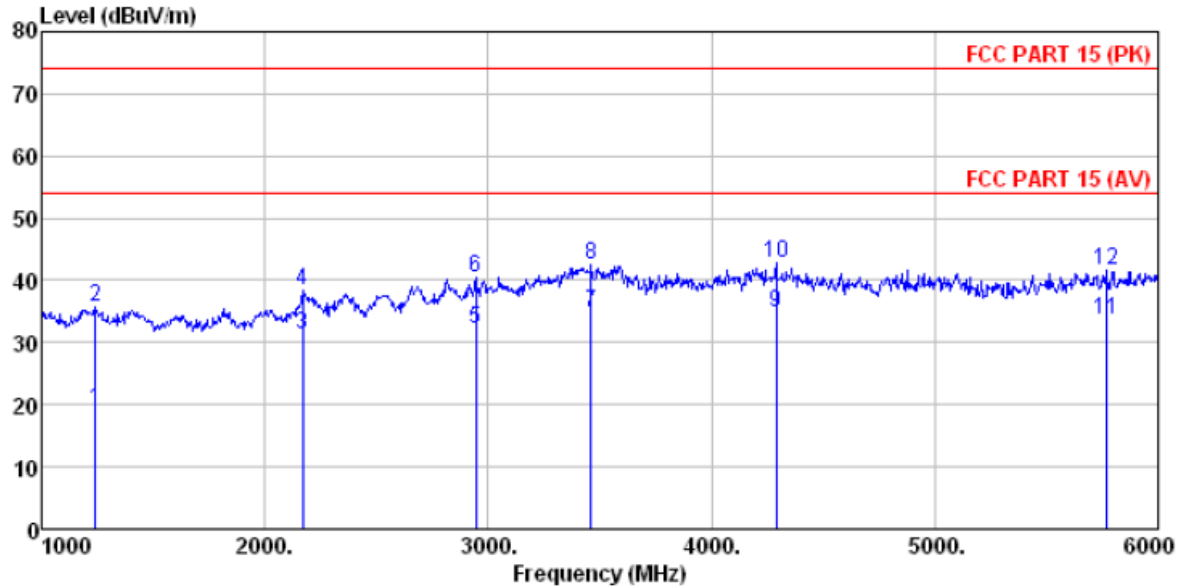
Horizontal:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL
 Job No. : 560RF
 Test Mode : PC mode
 Test Engineer: Edward

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1380.000	31.30	25.64	4.60	33.39	28.15	54.00	-25.85	Average
2	1380.000	38.30	25.64	4.60	33.39	35.15	74.00	-38.85	Peak
3	2370.000	32.50	27.65	5.36	34.03	31.48	54.00	-22.52	Average
4	2370.000	39.22	27.65	5.36	34.03	38.20	74.00	-35.80	Peak
5	2975.000	31.60	28.45	5.90	33.35	32.60	54.00	-21.40	Average
6	2975.000	39.35	28.45	5.90	33.35	40.35	74.00	-33.65	Peak
7	3430.000	31.94	28.72	6.82	32.83	34.65	54.00	-19.35	Average
8	3430.000	39.77	28.72	6.82	32.83	42.48	74.00	-31.52	Peak
9	4280.000	27.69	30.58	8.14	31.86	34.55	54.00	-19.45	Average
10	4280.000	35.55	30.58	8.14	31.86	42.41	74.00	-31.59	Peak
11	5755.000	24.19	32.59	9.86	32.27	34.37	54.00	-19.63	Average
12	5755.000	32.37	32.59	9.86	32.27	42.55	74.00	-31.45	Peak

Vertical:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL
 Job No. : 560RF
 Test Mode : PC mode
 Test Engineer: Edward

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	1240.000	22.30	25.50	4.50	33.16	19.14	54.00 -34.86 Average
2	1240.000	38.93	25.50	4.50	33.16	35.77	74.00 -38.23 Peak
3	2170.000	32.60	27.74	5.15	34.27	31.22	54.00 -22.78 Average
4	2170.000	39.74	27.74	5.15	34.27	38.36	74.00 -35.64 Peak
5	2945.000	31.40	28.43	5.88	33.39	32.32	54.00 -21.68 Average
6	2945.000	39.52	28.43	5.88	33.39	40.44	74.00 -33.56 Peak
7	3460.000	31.79	28.84	6.88	32.79	34.72	54.00 -19.28 Average
8	3460.000	39.59	28.84	6.88	32.79	42.52	74.00 -31.48 Peak
9	4290.000	27.89	30.65	8.15	31.84	34.85	54.00 -19.15 Average
10	4290.000	35.74	30.65	8.15	31.84	42.70	74.00 -31.30 Peak
11	5765.000	23.59	32.59	9.88	32.27	33.79	54.00 -20.21 Average
12	5765.000	31.28	32.59	9.88	32.27	41.48	74.00 -32.52 Peak

8 Test Setup Photo

Radiated Emission

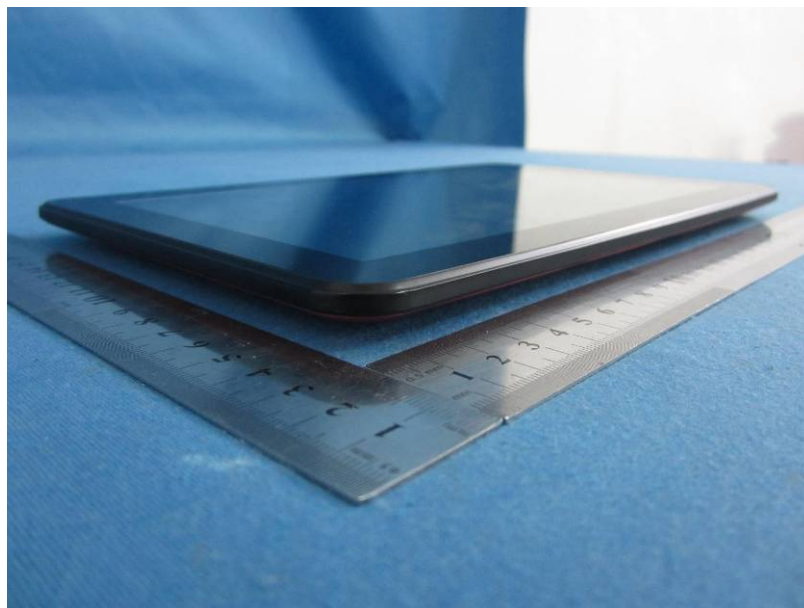
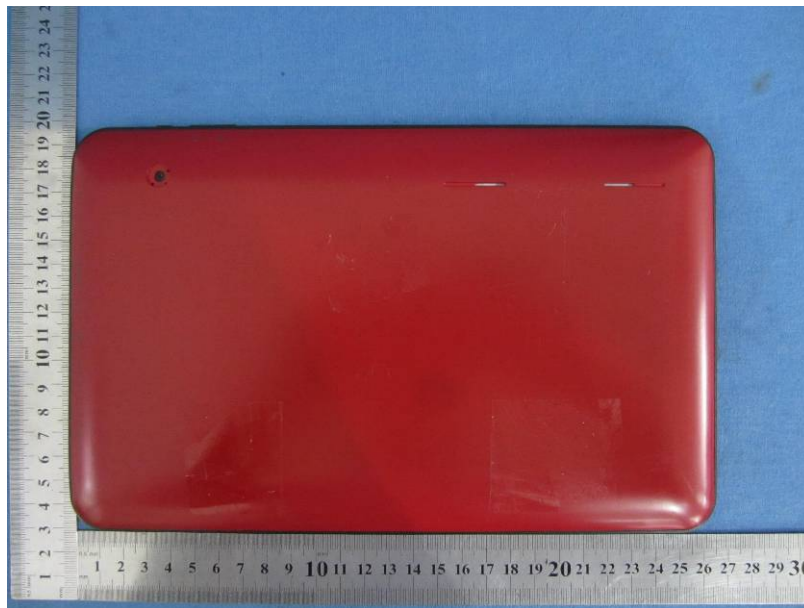


Conducted Emission

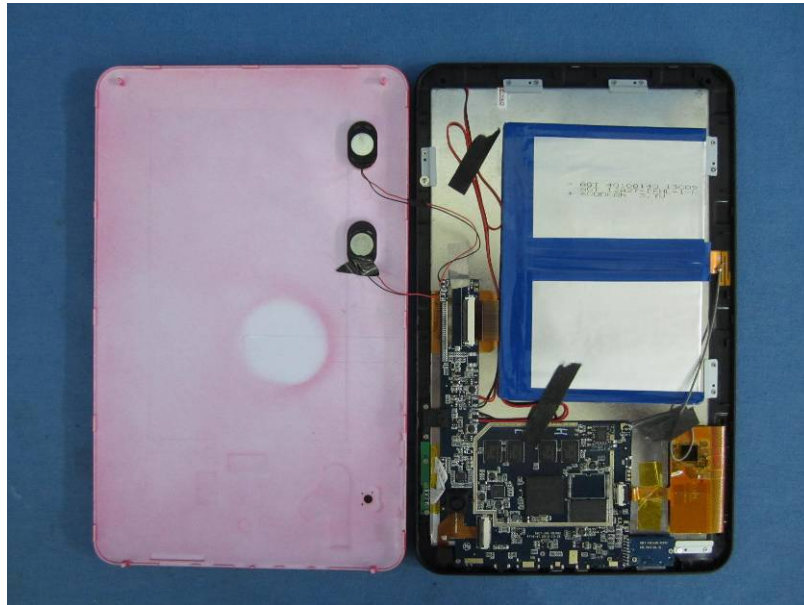


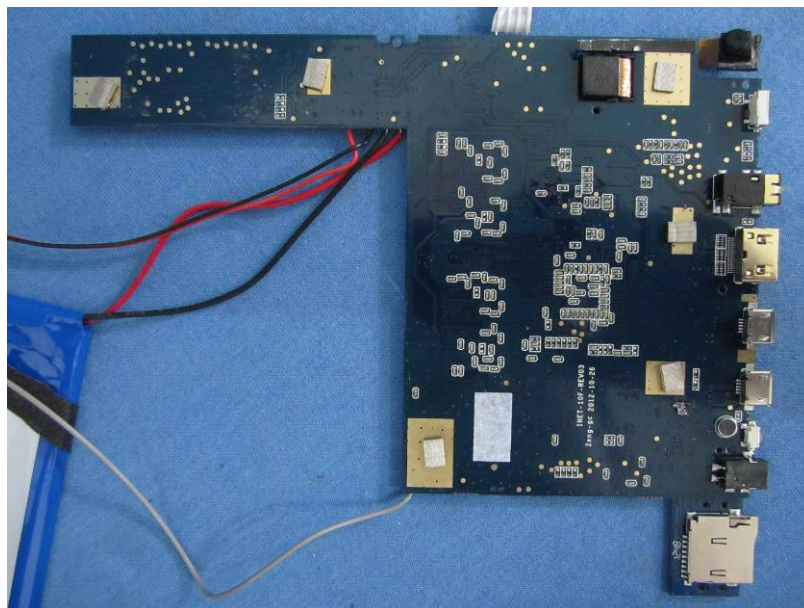
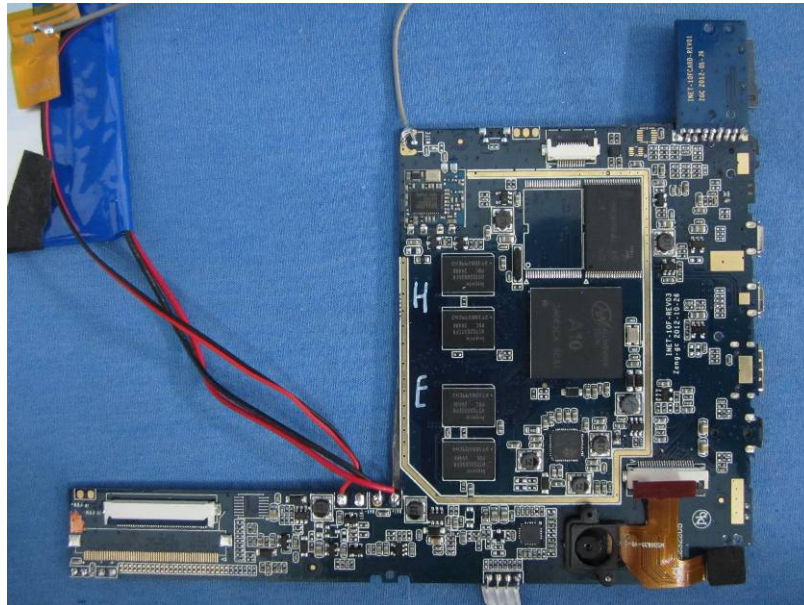
9 EUT Constructional Details

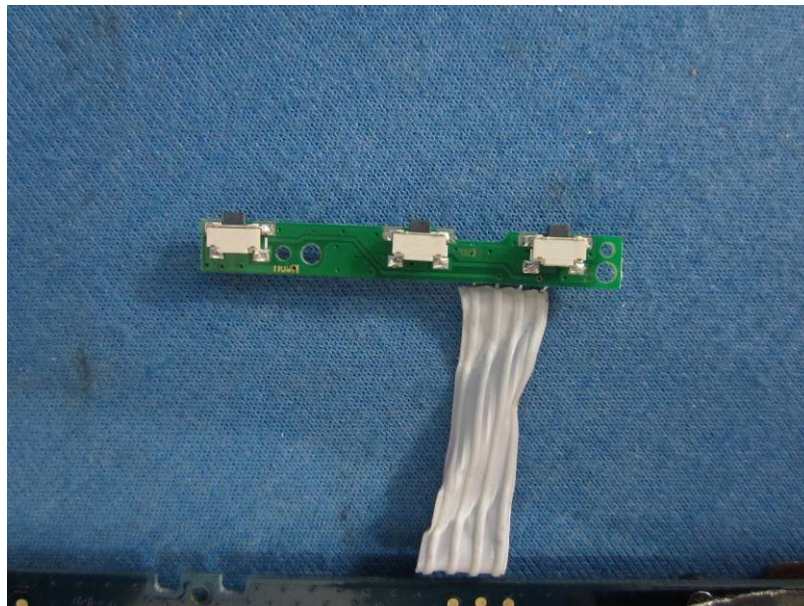
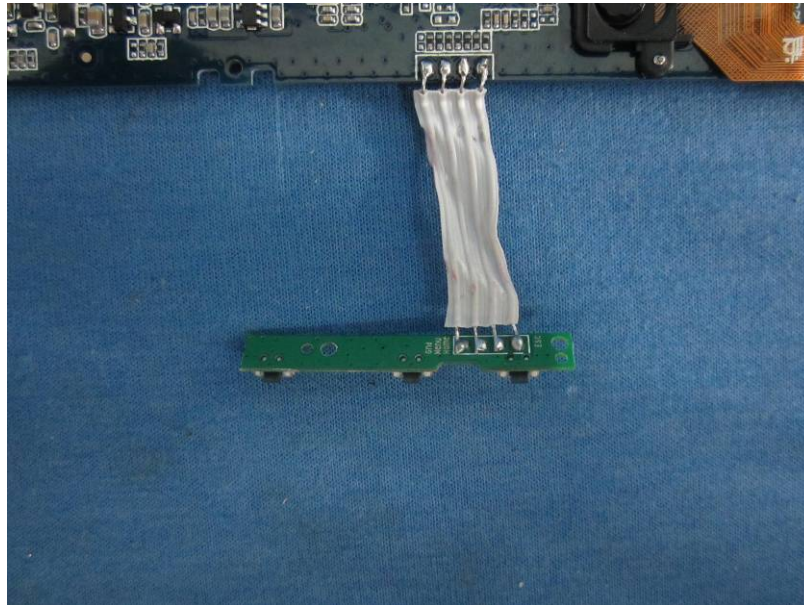


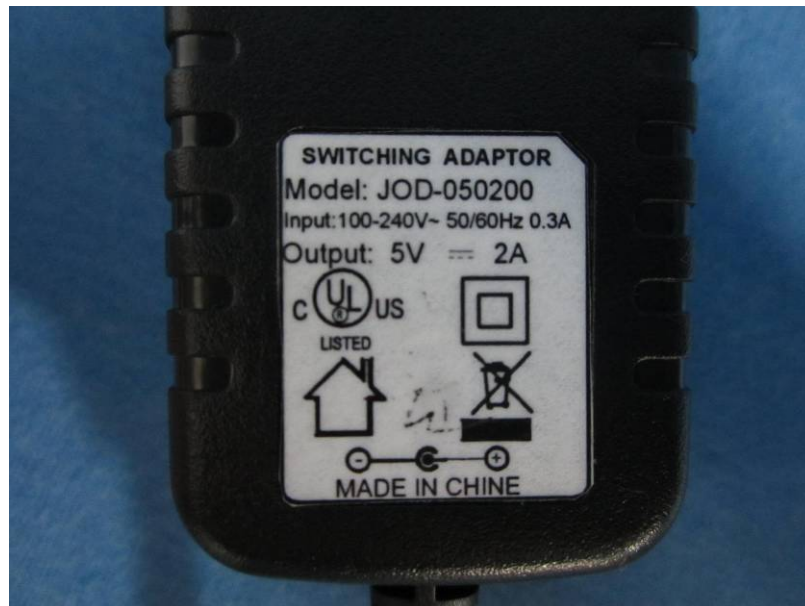












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