
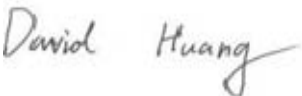



# EMC TEST REPORT



Report No.: 16070893-FCC-E

Supersede Report No: N/A

Applicant	Bean Information Technology Co., Ltd	
Product Name	Core+ 10.1,Core+11.6	
Model No.	W1102	
Serial No.	W1001	
Test Standard	FCC Part 15 Subpart B Class B:2015, ANSI C63.4: 2014	
Test Date	August 05 to September 01, 2016	
Issue Date	October 17, 2016	
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
Equipment complied with the specification <input checked="" type="checkbox"/>		
Equipment did not comply with the specification <input type="checkbox"/>		
		
Loren Luo Test Engineer	David Huang Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:

**SIEMIC (SHENZHEN-CHINA) LABORATORIES**

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park

South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108

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## Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

### Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

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## 1. Report Revision History

Report No.	Report Version	Description	Issue Date
16070893-FCC-E	NONE	Original	September 02, 2016
16070893-FCC-E	V1	Added the External Photos of EUT	October 17, 2016

## 2. Customer information

Applicant Name	Bean Information Technology Co., Ltd
Applicant Add	No. 810 of Software Building, Keji RD 1St., Science and Technology Park, Nanshan District, Shenzhen City, Guangdong Province, China
Manufacturer	Dongguan WeiHeng Digital Technology Co.,Ltd.
Manufacturer Add	Build 3, Fengquan Industry Area YaoShan,XieGang Town DongGuan

## 3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
FCC Test Site No.	718246
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

## 4. Equipment under Test (EUT) Information

Description of EUT:	Core+ 10.1,Core+11.6
Main Model:	W1102
Serial Model:	W1001
Antenna Gain:	Bluetooth/ WIFI: 4.36dBi
Antenna Type:	PIFA antenna
Input Power:	<p>Adapter 1:</p> <p>Model: PS12F050K2000UD</p> <p>Input: AC100-240V~50/60Hz,0.35A</p> <p>Output: DC 5.0V,2000 mA</p> <p>Adapter 2:</p> <p>Model: JK050200-S04USA</p> <p>Input: AC100-240V~50/60Hz,0.5A</p> <p>Output: DC 5.0V,2000mA</p> <p>Battery:</p> <p>Spec: 3.7V,3500mAh(31.45Wh)</p>
Equipment Category :	JBC
Type of Modulation:	<p>802.11b/g/n: DSSS, OFDM</p> <p>Bluetooth: GFSK, <math>\pi/4</math>DQPSK, 8DPSK</p>
RF Operating Frequency (ies):	<p>WIFI: 802.11b/g/n(20M): 2412-2472 MHz</p> <p>Bluetooth: 2402-2480 MHz</p>
Number of Channels:	<p>WIFI :802.11b/g/n(20M): 13CH</p> <p>Bluetooth: 79CH</p>
Port:	Power Port, Earphone Port, USB Port, USB-C Port, HDMI Port, Docking Port, MIC Port
Trade Name :	BIT

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FCC ID: 2AHWT-W1102

Date EUT received: August 04, 2016

Test Date(s): August 05 to September 01, 2016

## 5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.107; ANSI C63.4: 2014	AC Power Line Conducted Emissions	Compliance
§15.109; ANSI C63.4: 2014	Radiated Emissions	Compliance

### Measurement Uncertainty

Emissions		
Test Item	Description	Uncertainty
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
-	-	-




## 6. Measurements, Examination And Derived Results

### 6.1 AC Power Line Conducted Emissions

Temperature	22°C
Relative Humidity	53%
Atmospheric Pressure	1029mbar
Test date :	August 29, 2016
Tested By :	Loren Luo

#### Requirement(s):

Spec	Item	Requirement	Applicable														
47CFR§15.107	a)	For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [mu] H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges.															
		<table><tr><th rowspan="2">Frequency ranges (MHz)</th><th colspan="2">Limit (dBµV)</th></tr><tr><th>QP</th><th>Average</th></tr><tr><td>0.15 ~ 0.5</td><td>66 – 56</td><td>56 – 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>	Frequency ranges (MHz)	Limit (dBµV)		QP	Average	0.15 ~ 0.5	66 – 56	56 – 46	0.5 ~ 5	56	46	5 ~ 30	60	50	
Frequency ranges (MHz)	Limit (dBµV)																
	QP	Average															
0.15 ~ 0.5	66 – 56	56 – 46															
0.5 ~ 5	56	46															
5 ~ 30	60	50															

Test Setup	 <p>Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.</p>
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Procedure	<ol style="list-style-type: none"> <li>The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.</li> <li>The power supply for the EUT was fed through a 50Ω /50mH EUT LISN, connected to filtered mains.</li> </ol>
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	<p>3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.</p> <p>4. All other supporting equipment were powered separately from another main supply.</p> <p>5. The EUT was switched on and allowed to warm up to its normal operating condition.</p> <p>6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.</p> <p>7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz.</p> <p>8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).</p>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Adapter 1: PS12F050K2000UD

Test Mode 1 :	Charging and Traffic Operating HDMI Mode
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Test Mode 2 :	USB Mode
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Test Mode 3 :	Charging and Traffic Operating Camera Mode
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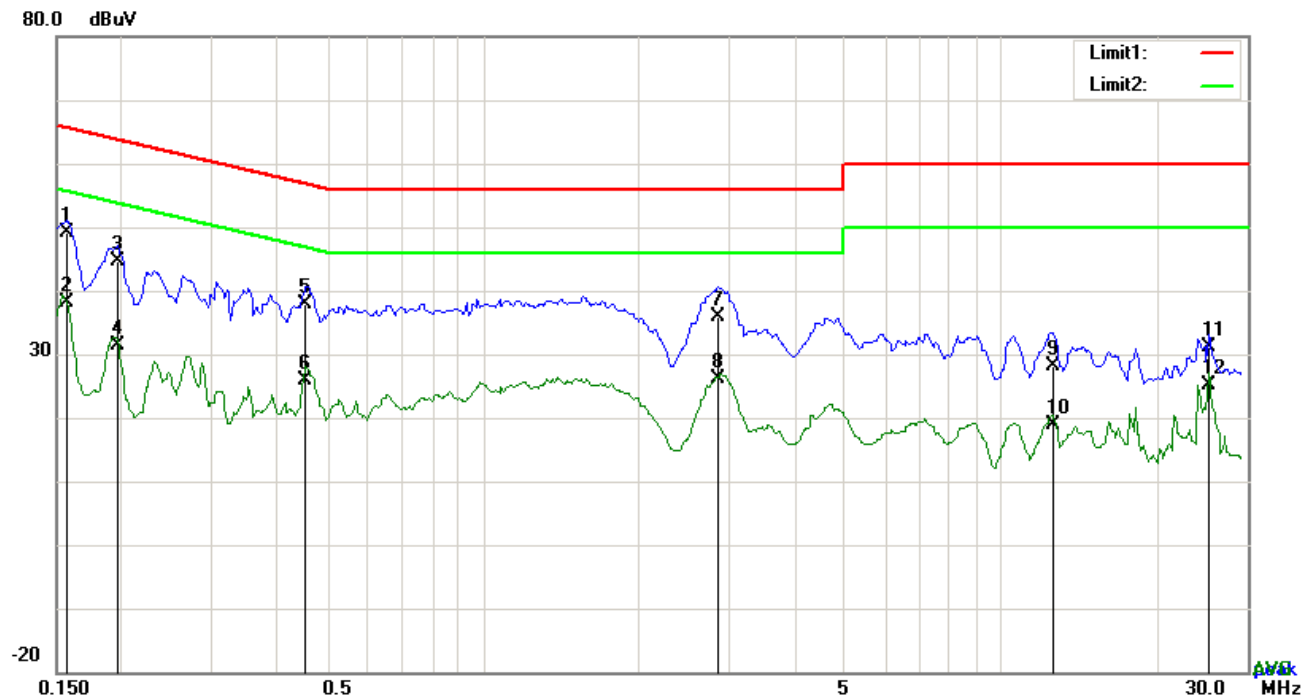
Adapter 2: Model: JK050200-S04USA

Test Mode 1 :	Charging Mode
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**Note:** All modes were investigated. The results below show only the worst cases.

Adapter 1: PS12F050K2000UD

Test Mode 1 : Charging and Traffic Operating HDMI Mode

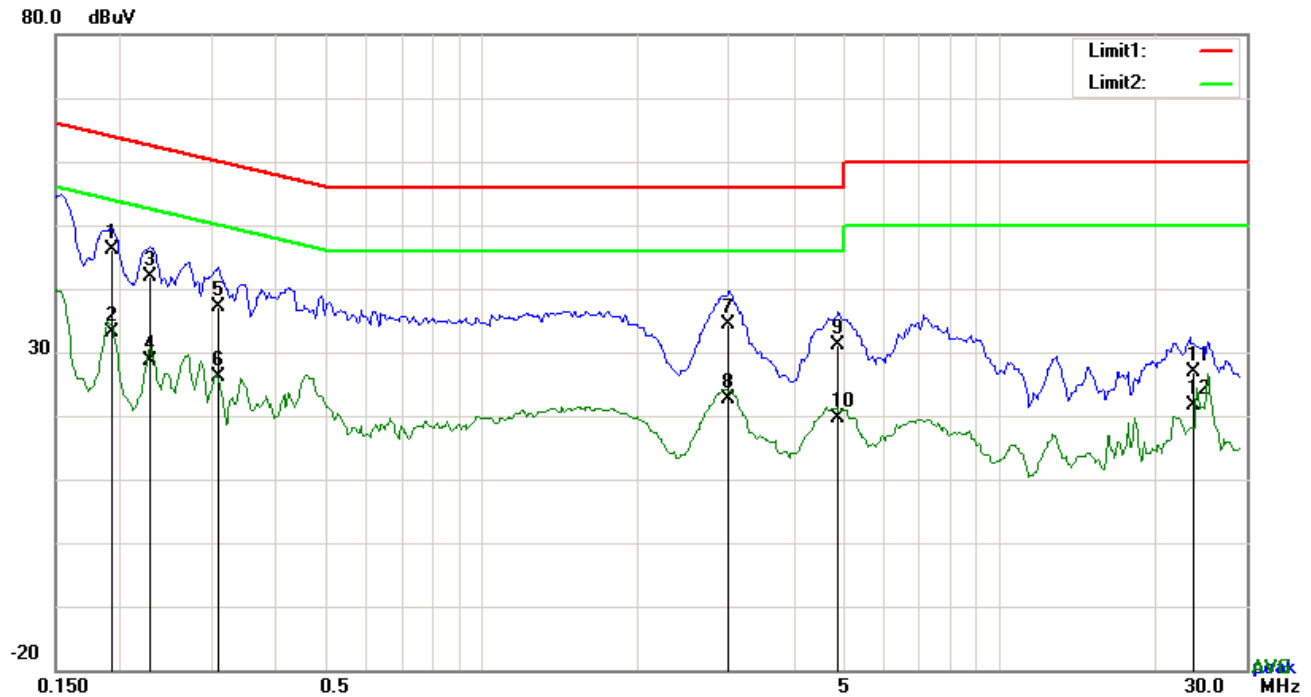


Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.1578	39.00	QP	10.03	49.03	65.58	-16.55
2	L1	0.1578	28.04	AVG	10.03	38.07	55.58	-17.51
3	L1	0.1968	34.67	QP	10.03	44.70	63.74	-19.04
4	L1	0.1968	21.42	AVG	10.03	31.45	53.74	-22.29
5	L1	0.4542	27.77	QP	10.03	37.80	56.80	-19.00
6	L1	0.4542	15.78	AVG	10.03	25.81	46.80	-20.99
7	L1	2.8488	25.95	QP	10.05	36.00	56.00	-20.00
8	L1	2.8488	16.14	AVG	10.05	26.19	46.00	-19.81
9	L1	12.6915	17.92	QP	10.19	28.11	60.00	-31.89
10	L1	12.6915	8.59	AVG	10.19	18.78	50.00	-31.22
11	L1	25.2300	20.84	QP	10.40	31.24	60.00	-28.76
12	L1	25.2300	14.76	AVG	10.40	25.16	50.00	-24.84

**Test Mode 1 : Charging and Traffic Operating HDMI Mode**

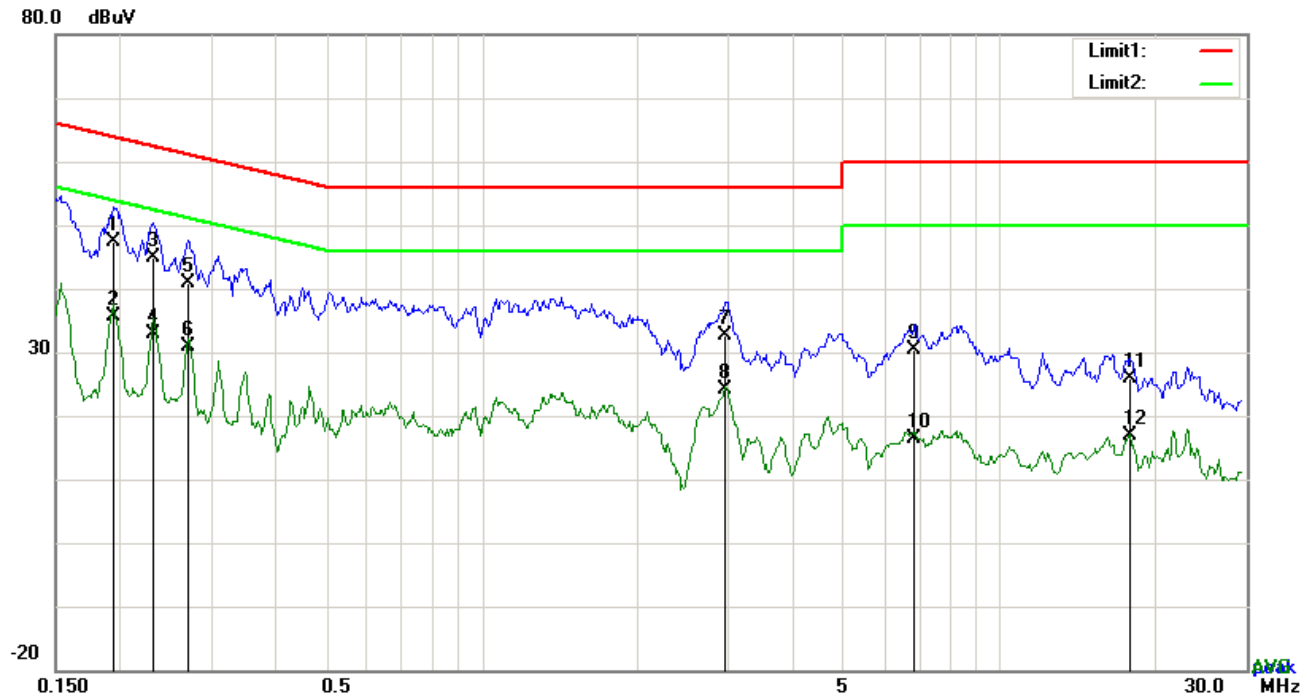


**Test Data**

**Phase Neutral Plot at 120Vac, 60Hz**

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.1929	36.10	QP	10.02	46.12	63.91	-17.79
2	N	0.1929	23.19	AVG	10.02	33.21	53.91	-20.70
3	N	0.2280	31.90	QP	10.02	41.92	62.52	-20.60
4	N	0.2280	18.59	AVG	10.02	28.61	52.52	-23.91
5	N	0.3099	27.20	QP	10.02	37.22	59.97	-22.75
6	N	0.3099	16.19	AVG	10.02	26.21	49.97	-23.76
7	N	3.0078	24.43	QP	10.05	34.48	56.00	-21.52
8	N	3.0078	12.57	AVG	10.05	22.62	46.00	-23.38
9	N	4.8954	21.08	QP	10.07	31.15	56.00	-24.85
10	N	4.8954	9.52	AVG	10.07	19.59	46.00	-26.41
11	N	23.6361	16.67	QP	10.32	26.99	60.00	-33.01
12	N	23.6361	11.40	AVG	10.32	21.72	50.00	-28.28

**Test Mode 1 : Charging and Traffic Operating HDMI Mode**

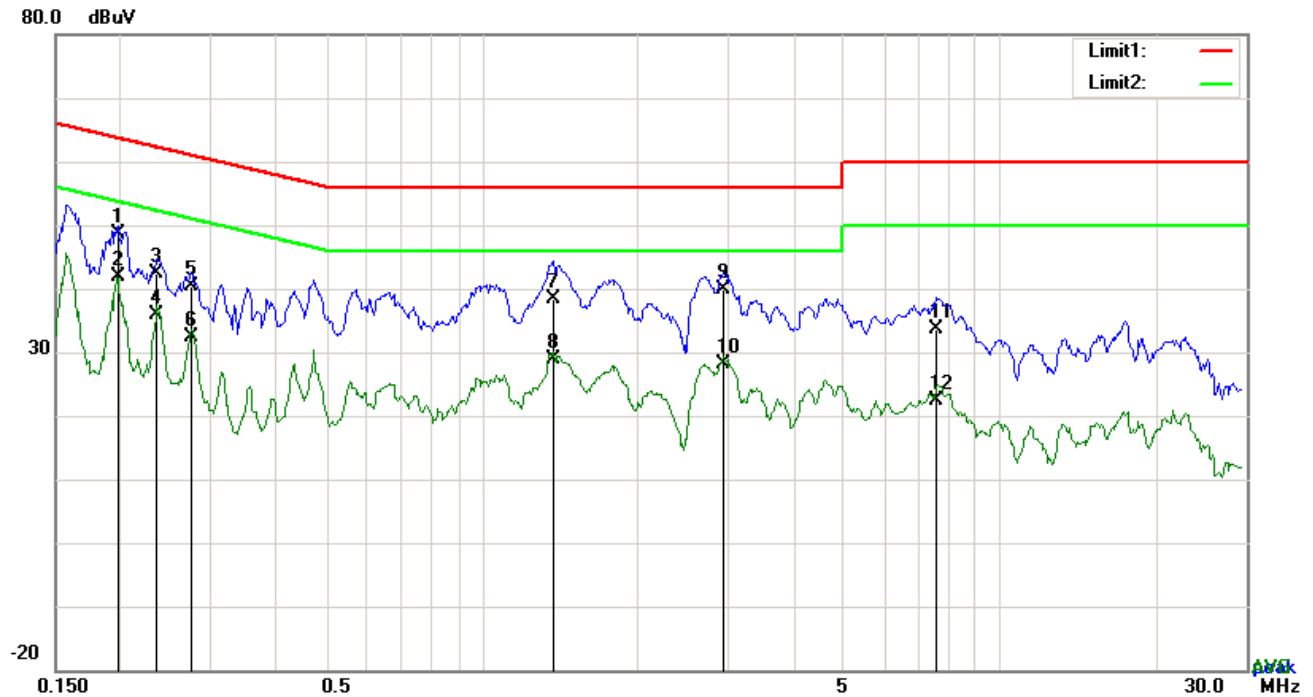


**Test Data**

**Phase Line Plot at 240Vac, 60Hz**

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.1934	37.35	QP	10.03	47.38	63.89	-16.51
2	L1	0.1934	25.48	AVG	10.03	35.51	53.89	-18.38
3	L1	0.2319	34.76	QP	10.03	44.79	62.38	-17.59
4	L1	0.2319	22.77	AVG	10.03	32.80	52.38	-19.58
5	L1	0.2709	30.75	QP	10.03	40.78	61.09	-20.31
6	L1	0.2709	20.80	AVG	10.03	30.83	51.09	-20.26
7	L1	2.9541	22.69	QP	10.05	32.74	56.00	-23.26
8	L1	2.9541	14.11	AVG	10.05	24.16	46.00	-21.84
9	L1	6.8532	20.31	QP	10.11	30.42	60.00	-29.58
10	L1	6.8532	6.31	AVG	10.11	16.42	50.00	-33.58
11	L1	17.8493	15.54	QP	10.27	25.81	60.00	-34.19
12	L1	17.8493	6.73	AVG	10.27	17.00	50.00	-33.00

**Test Mode 1 : Charging and Traffic Operating HDMI Mode**



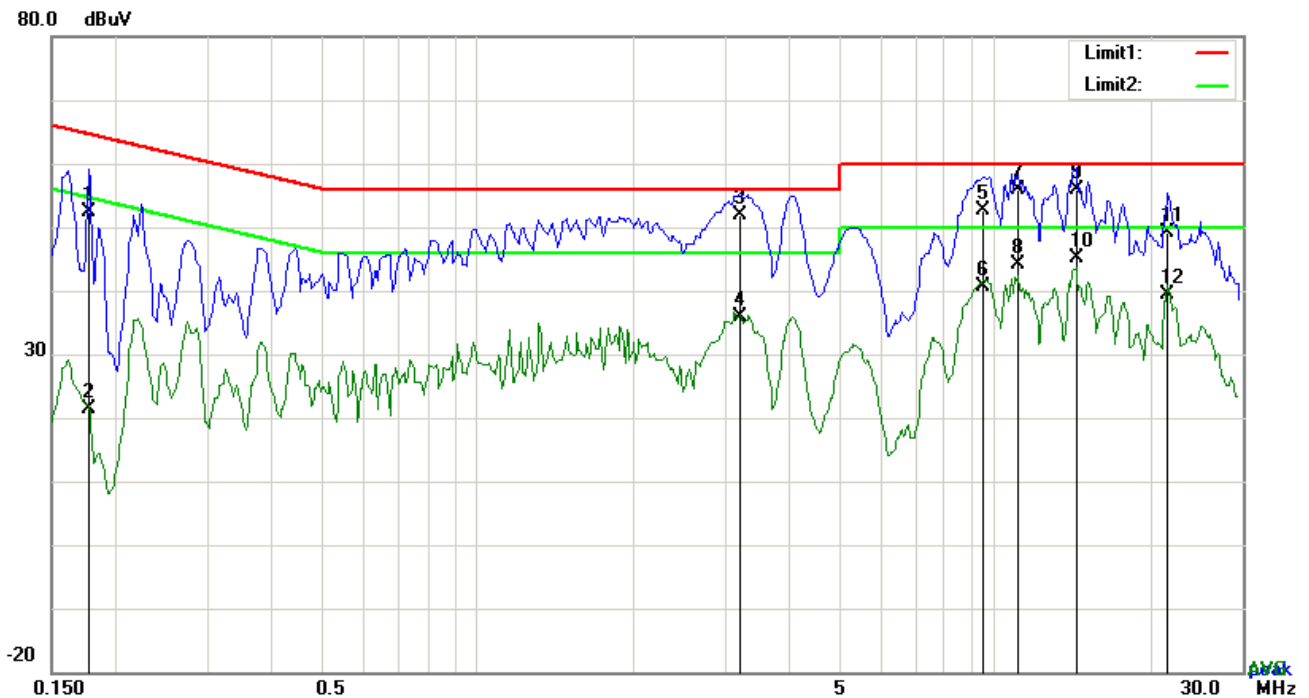
**Test Data**

**Phase Neutral Plot at 240Vac, 60Hz**

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.1976	38.72	QP	10.02	48.74	63.71	-14.97
2	N	0.1976	31.91	AVG	10.02	41.93	53.71	-11.78
3	N	0.2358	32.34	QP	10.02	42.36	62.24	-19.88
4	N	0.2358	25.84	AVG	10.02	35.86	52.24	-16.38
5	N	0.2748	30.43	QP	10.02	40.45	60.97	-20.52
6	N	0.2748	22.32	AVG	10.02	32.34	50.97	-18.63
7	N	1.3746	28.30	QP	10.03	38.33	56.00	-17.67
8	N	1.3746	18.75	AVG	10.03	28.78	46.00	-17.22
9	N	2.9307	29.95	QP	10.05	40.00	56.00	-16.00
10	N	2.9307	18.09	AVG	10.05	28.14	46.00	-17.86
11	N	7.5258	23.62	QP	10.11	33.73	60.00	-26.27
12	N	7.5258	12.19	AVG	10.11	22.30	50.00	-27.70

**Adapter 2: Model: JK050200-S04USA**

## Test Mode 1 : Charging Mode

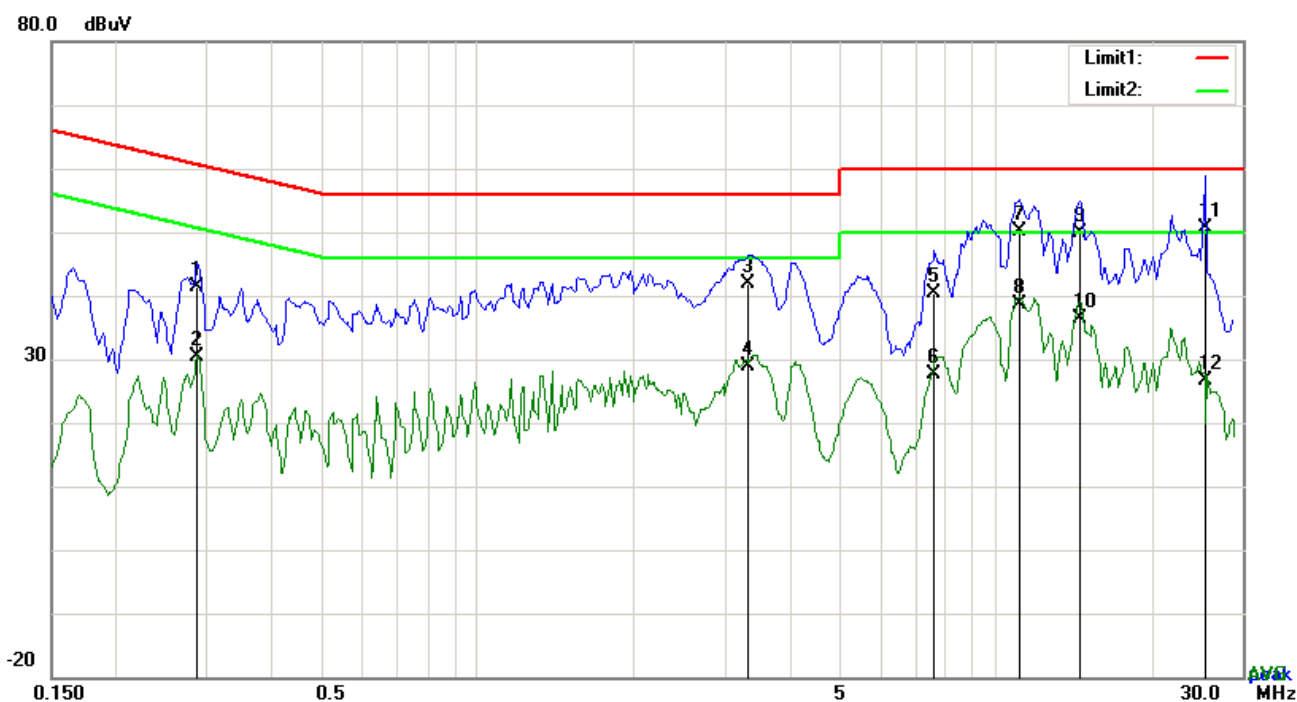


### Test Data

### Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.1773	42.47	QP	10.03	52.50	64.61	-12.11
2	L1	0.1773	11.36	AVG	10.03	21.39	54.61	-33.22
3	L1	3.2145	41.85	QP	10.06	51.91	56.00	-4.09
4	L1	3.2145	25.81	AVG	10.06	35.87	46.00	-10.13
5	L1	9.4662	42.43	QP	10.14	52.57	60.00	-7.43
6	L1	9.4662	30.40	AVG	10.14	40.54	50.00	-9.46
7	L1	11.0211	45.75	QP	10.17	55.92	60.00	-4.08
8	L1	11.0211	34.08	AVG	10.17	44.25	50.00	-5.75
9	L1	14.2944	45.65	QP	10.21	55.86	60.00	-4.14
10	L1	14.2944	34.87	AVG	10.21	45.08	50.00	-4.92
11	L1	21.5523	38.75	QP	10.33	49.08	60.00	-10.92
12	L1	21.5523	29.07	AVG	10.33	39.40	50.00	-10.60

**Test Mode 1 : Charging Mode**



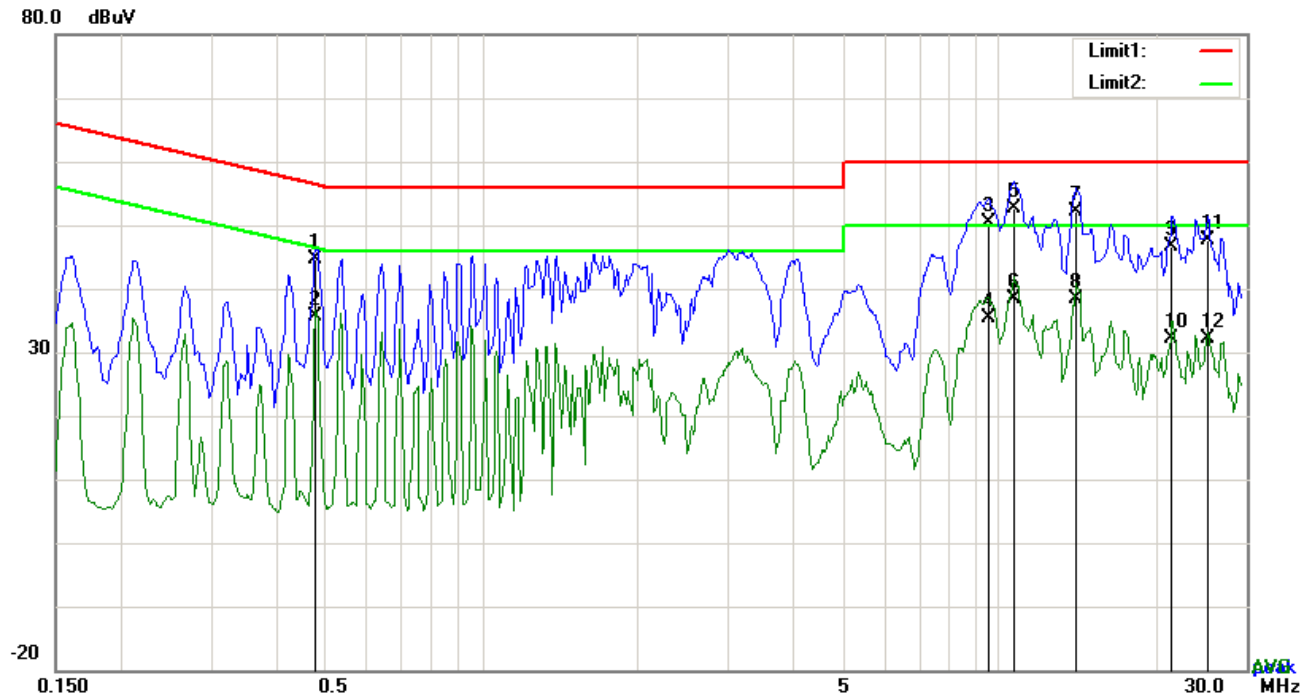
**Test Data**

**Phase Neutral Plot at 120Vac, 60Hz**

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.2865	31.35	QP	10.02	41.37	60.63	-19.26
2	N	0.2865	20.26	AVG	10.02	30.28	50.63	-20.35
3	N	3.3315	31.72	QP	10.05	41.77	56.00	-14.23
4	N	3.3315	18.80	AVG	10.05	28.85	46.00	-17.15
5	N	7.6254	30.18	QP	10.11	40.29	60.00	-19.71
6	N	7.6254	17.56	AVG	10.11	27.67	50.00	-22.33
7	N	11.1354	40.10	QP	10.15	50.25	60.00	-9.75
8	N	11.1354	28.42	AVG	10.15	38.57	50.00	-11.43
9	N	14.5284	39.73	QP	10.19	49.92	60.00	-10.08
10	N	14.5284	26.31	AVG	10.19	36.50	50.00	-13.50
11	N	25.5732	40.17	QP	10.35	50.52	60.00	-9.48
12	N	25.5732	16.31	AVG	10.35	26.66	50.00	-23.34



<b>Test Mode 1:</b>	<b>Charging Mode</b>
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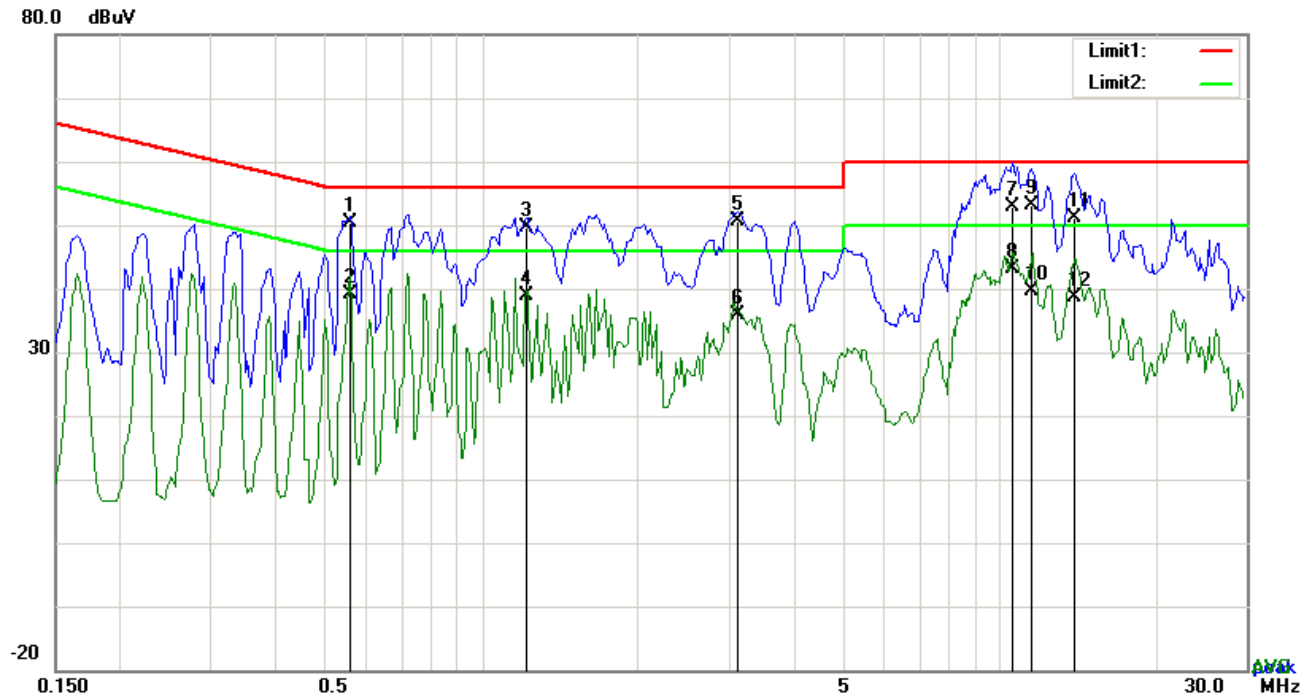


**Test Data**

**Phase Line Plot at 240Vac, 60Hz**

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.4776	34.59	QP	10.03	44.62	56.38	-11.76
2	L1	0.4776	25.65	AVG	10.03	35.68	46.38	-10.70
3	L1	9.5247	40.32	QP	10.14	50.46	60.00	-9.54
4	L1	9.5247	25.23	AVG	10.14	35.37	50.00	-14.63
5	L1	10.6323	42.41	QP	10.16	52.57	60.00	-7.43
6	L1	10.6323	28.26	AVG	10.16	38.42	50.00	-11.58
7	L1	14.0214	41.95	QP	10.21	52.16	60.00	-7.84
8	L1	14.0214	28.05	AVG	10.21	38.26	50.00	-11.74
9	L1	21.5913	36.26	QP	10.33	46.59	60.00	-13.41
10	L1	21.5913	21.70	AVG	10.33	32.03	50.00	-17.97
11	L1	25.2690	37.19	QP	10.40	47.59	60.00	-12.41
12	L1	25.2690	21.72	AVG	10.40	32.12	50.00	-17.88

**Test Mode 1 : Charging Mode**



**Test Data**


**Phase Neutral Plot at 240Vac, 60Hz**

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.5556	40.30	QP	10.02	50.32	56.00	-5.68
2	N	0.5556	29.12	AVG	10.02	39.14	46.00	-6.86
3	N	1.2225	39.68	QP	10.03	49.71	56.00	-6.29
4	N	1.2225	28.81	AVG	10.03	38.84	46.00	-7.16
5	N	3.1170	40.70	QP	10.05	50.75	56.00	-5.25
6	N	3.1170	25.85	AVG	10.05	35.90	46.00	-10.10
7	N	10.5777	42.85	QP	10.15	53.00	60.00	-7.00
8	N	10.5777	33.07	AVG	10.15	43.22	50.00	-6.78
9	N	11.5176	42.87	QP	10.16	53.03	60.00	-6.97
10	N	11.5176	29.40	AVG	10.16	39.56	50.00	-10.44
11	N	13.9824	40.85	QP	10.19	51.04	60.00	-8.96
12	N	13.9824	28.32	AVG	10.19	38.51	50.00	-11.49

## 6.2 Radiated Emissions

Temperature	22°C
Relative Humidity	53%
Atmospheric Pressure	1029mbar
Test date :	August 29, 2016
Tested By :	Loren Luo

### Requirement(s):

Spec	Item	Requirement	Applicable	
47CFR§15. 109(d)	a)	Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges		
		Frequency range (MHz)		Field Strength (µV/m)
		30 – 88		100
		88 – 216		150
		216 960		200
		Above 960		500

Test Setup	
------------	--

Procedure	<ol style="list-style-type: none"> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> <li>Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> </ol> </li> </ol>
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	<p>b. The EUT was then rotated to the direction that gave the maximum emission.</p> <p>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</p> <p>3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi Peak detection at frequency below 1GHz.</p> <p>4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth with Peak detection for Average Measurement as below at frequency above 1GHz. ■ 1 kHz (Duty cycle &lt; 98%) □ 10 Hz (Duty cycle &gt; 98%)</p> <p>5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</p>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Adapter 1: PS12F050K2000UD

Test Mode 1 :	Charging and Traffic Operating HDMI Mode
---------------	--

Test Mode 2 :	USB Mode
---------------	----------

Test Mode 3 :	Charging and Traffic Operating Camera Mode
---------------	--

Adapter 2: Model: JK050200-S04USA

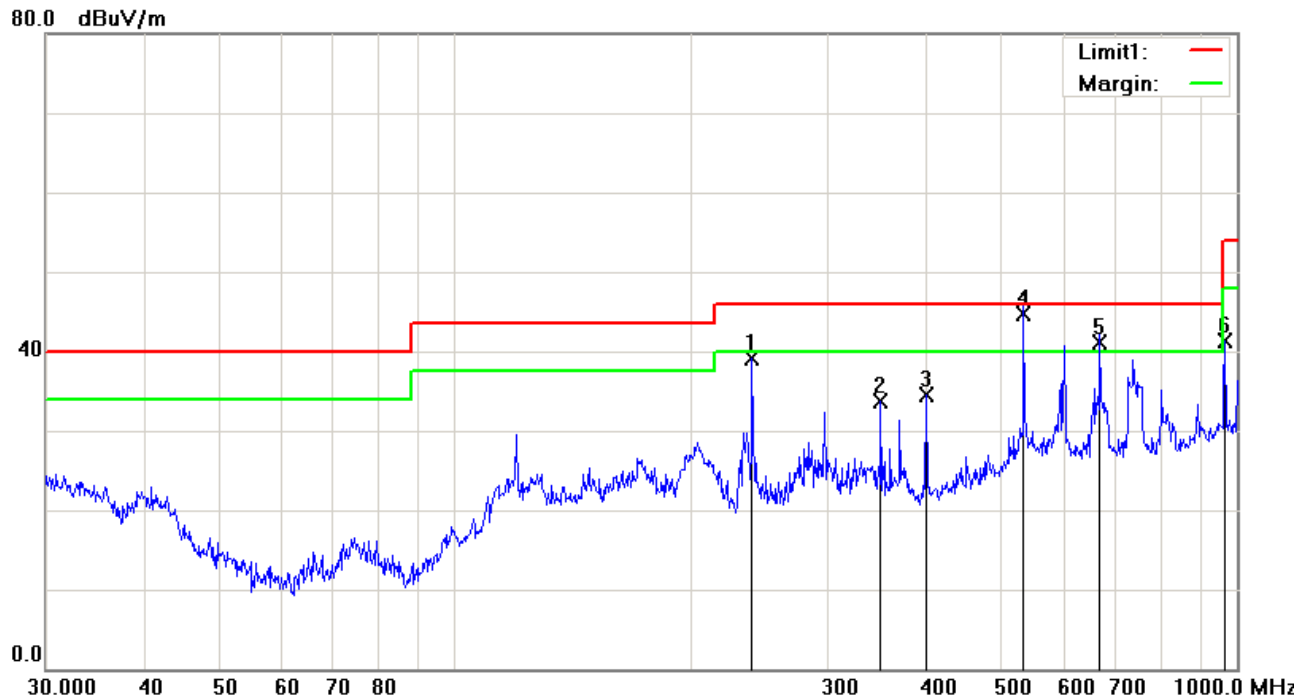
Test Mode 1 :	Charging Mode
---------------	---------------

Note: All modes were investigated. The results below show only the worst cases.

Adapter 1: PS12F050K2000UD

Test Mode 1 : Charging and Traffic Operating HDMI Mode

Below 1GHz

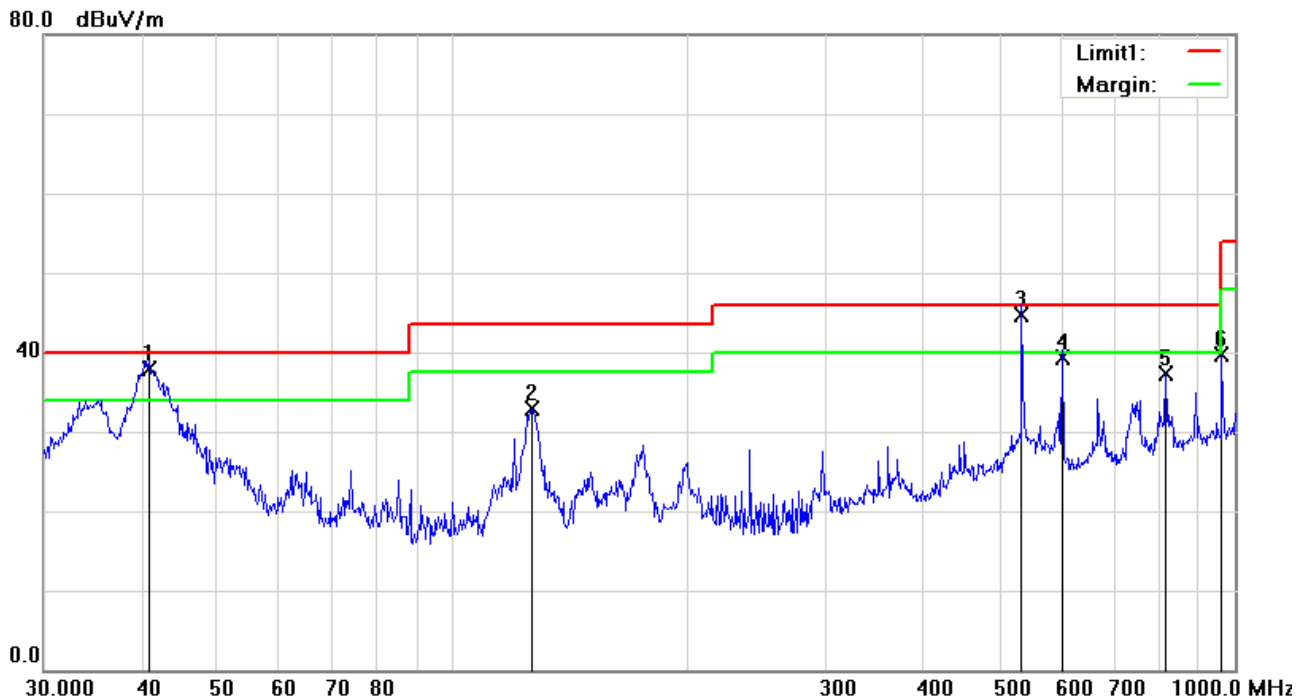


Test Data

Horizontal Polarity Plot @3m

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	( ° )
1	H	239.9873	48.18	peak	-9.10	39.08	46.00	-6.92	100	66
2	H	350.4768	39.06	peak	-5.45	33.61	46.00	-12.39	100	95
3	H	400.4319	38.85	peak	-4.29	34.56	46.00	-11.44	100	123
4	H	533.8321	45.86	QP	-1.10	44.76	46.00	-1.24	100	168
5	H	668.1423	39.99	QP	1.02	41.01	46.00	-4.99	100	330
6	H	965.5421	35.99	peak	5.33	41.32	54.00	-12.68	100	56

### Below 1GHz



### Test Data

#### Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	V	40.8446	46.13	QP	-8.16	37.97	40.00	-2.03	100	89
2	V	126.3286	40.51	peak	-7.70	32.81	43.50	-10.69	100	156
3	V	533.8321	45.76	QP	-1.10	44.66	46.00	-1.34	100	23
4	V	601.4265	39.28	QP	0.03	39.31	46.00	-6.69	100	205
5	V	815.9678	33.86	peak	3.40	37.26	46.00	-8.74	100	198
6	V	962.1623	34.49	peak	5.29	39.78	54.00	-14.22	100	312

Adapter 2: Model: JK050200-S04USA

Test Mode 1: Charging Mode

**Below 1GHz**

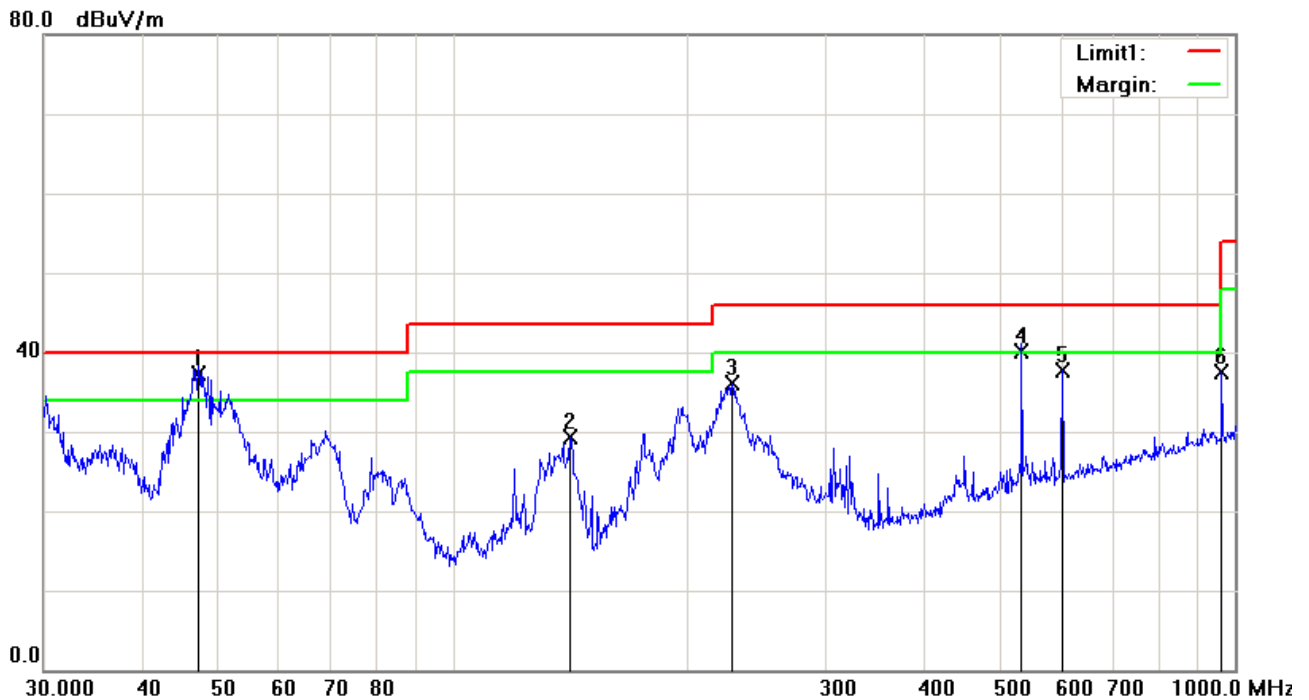


**Test Data**

**Horizontal Polarity Plot @3m**

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	( ° )
1	H	141.3298	44.10	peak	-8.52	35.58	43.50	-7.92	100	191
2	H	226.8936	47.96	QP	-8.98	38.98	46.00	-7.02	100	218
3	H	350.4768	40.07	peak	-5.45	34.62	46.00	-11.38	100	165
4	H	533.8321	36.54	peak	-1.10	35.44	46.00	-10.56	100	191
5	H	601.4265	35.76	peak	0.03	35.79	46.00	-10.21	100	191
6	H	962.1623	32.20	peak	5.29	37.49	54.00	-16.51	100	270

### Below 1GHz



### Test Data

#### Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	V	47.3255	49.27	QP	-11.98	37.29	40.00	-2.71	100	225
2	V	141.3298	37.80	peak	-8.52	29.28	43.50	-14.22	100	173
3	V	227.6906	45.14	peak	-8.99	36.15	46.00	-9.85	100	346
4	V	533.8321	41.21	QP	-1.10	40.11	46.00	-5.89	100	184
5	V	601.4265	37.63	peak	0.03	37.66	46.00	-8.34	100	214
6	V	962.1623	32.23	peak	5.29	37.52	54.00	-16.48	100	161



### *Above 1GHz*

Frequency (MHz)	Amplitude (dBμV/m)	Azimuth	Height (cm)	Polarity (H/V)	Factors (dB)	Limit (dBμV/m)	Margin (dB)	Detector (PK/AV)
1544.57	50.35	85	167	V	-22.47	74	-23.65	PK
2058.65	49.55	93	121	V	-22.68	74	-24.45	PK
1672.15	50.24	65	167	V	-22.45	74	-23.76	PK
2158.36	49.37	77	170	H	-22.37	74	-24.63	PK
2866.45	48.82	42	140	H	-22.21	74	-25.18	PK
1875.44	50.33	88	135	H	-23.67	74	-23.67	PK

*Note1: The highest frequency of the EUT is 2480 MHz, so the testing has been conformed to  $5 \times 2472 \text{ MHz} = 12,360 \text{ MHz}$ .*

*Note2: The frequency that above 3GHz is mainly from the environment noise.*

*Note3: The AV measurement performed, more than 20dB below limit so AV test data was not presented.*

## Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
<b>AC Line Conducted Emissions</b>					
EMI test receiver	ESCS30	8471241027	09/17/2015	09/16/2016	<input checked="" type="checkbox"/>
Line Impedance Stabilization Network	LI-125A	191106	09/25/2015	09/24/2016	<input checked="" type="checkbox"/>
Line Impedance Stabilization Network	LI-125A	191107	09/25/2015	09/24/2016	<input checked="" type="checkbox"/>
LISN	ISN T800	34373	09/25/2015	09/24/2016	<input checked="" type="checkbox"/>
Transient Limiter	LIT-153	531118	09/01/2015	08/31/2016	<input checked="" type="checkbox"/>
<b>Radiated Emissions</b>					
EMI test receiver	ESL6	100262	09/17/2015	09/16/2016	<input checked="" type="checkbox"/>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/01/2015	08/31/2016	<input checked="" type="checkbox"/>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/24/2016	03/23/2017	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/21/2015	09/20/2016	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna	AH-118	71259	09/24/2015	09/23/2016	<input checked="" type="checkbox"/>

## Annex B. EUT And Test Setup Photographs

### Annex B.i. Photograph: EUT External Photo



Whole Package View 1



Whole Package View 2



Adapter 1- Front View



Adapter 2- Front View



EUT - Front View



EUT - Rear View

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EUT - Top View



EUT - Bottom View



EUT - Left View



EUT - Right View





Screen - Front View



Screen - Rear View



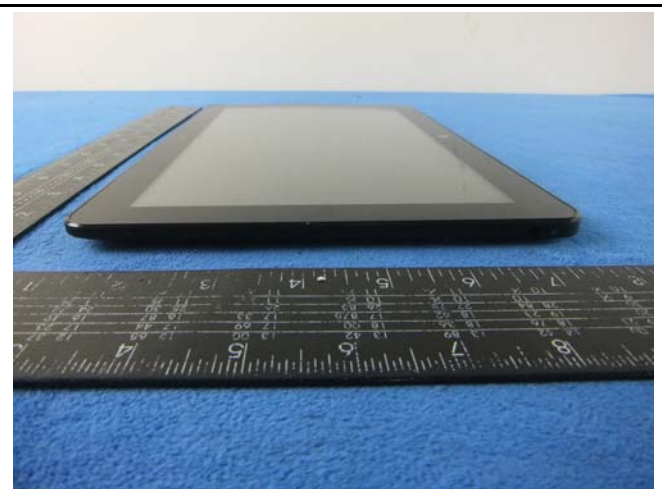
Screen - Top View



Screen - Bottom View



Screen - Left View



Screen - Right View



Keyboard - Front View



Keyboard - Rear View



Keyboard - Top View



Keyboard - Bottom View



Keyboard - Left View



Keyboard - Right View



**Annex B.ii. Photograph: EUT Internal Photo**



Cover Off - Top View 1



Cover Off - Top View 2



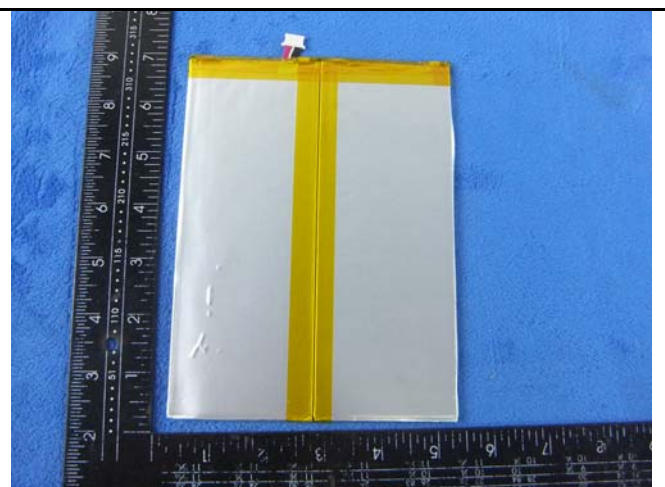
Key board Cover Off - Top View 1



Key board Cover Off - Top View 2



Battery - Front View

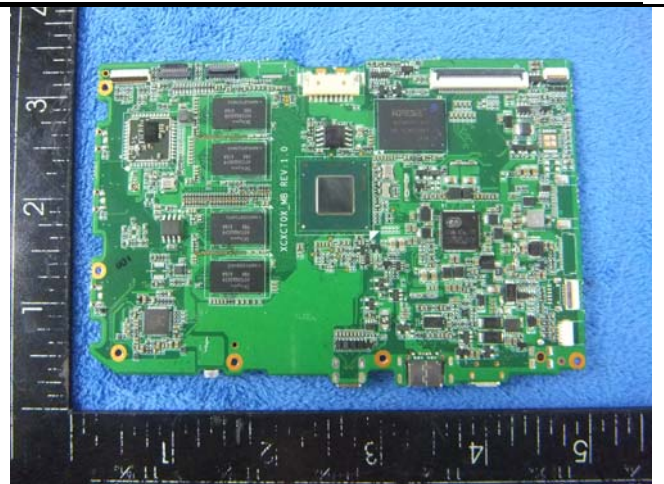


Battery - Rear View

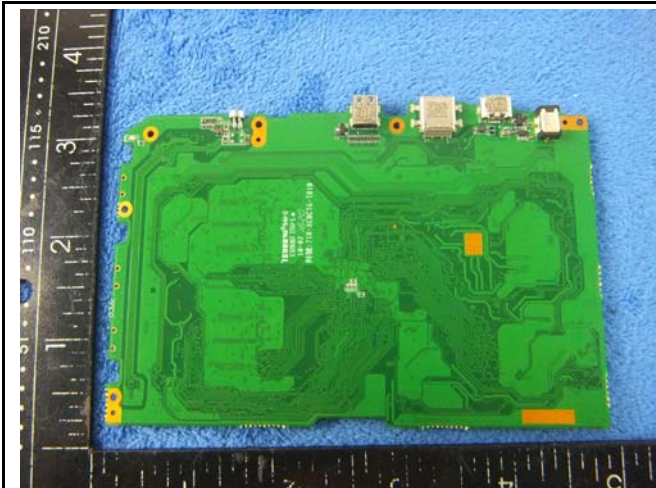




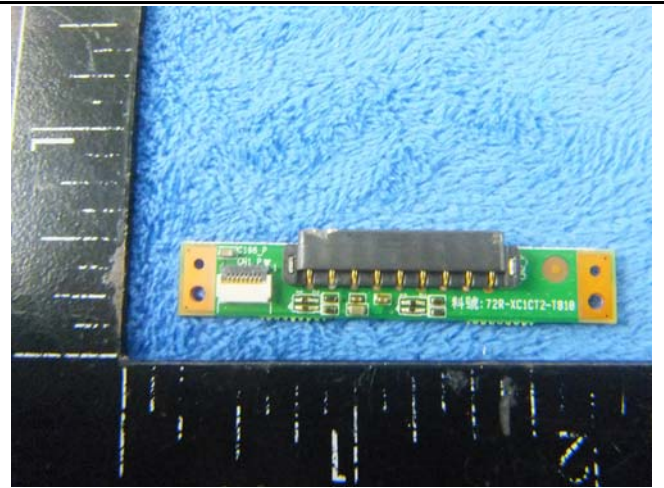
Mainboard with Shielding - Front View



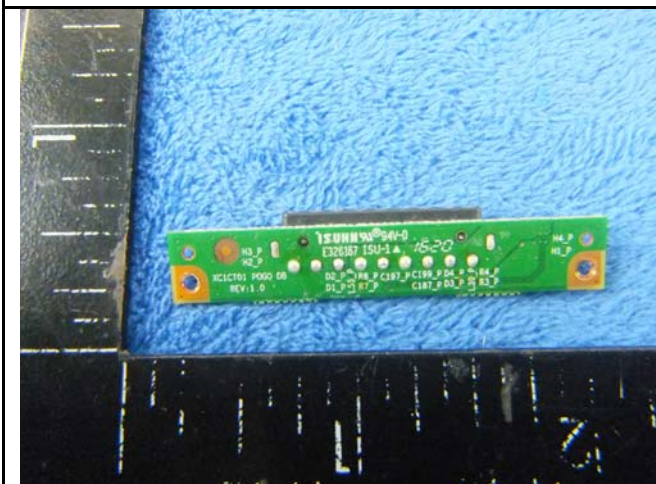
Mainboard without Shielding - Front View



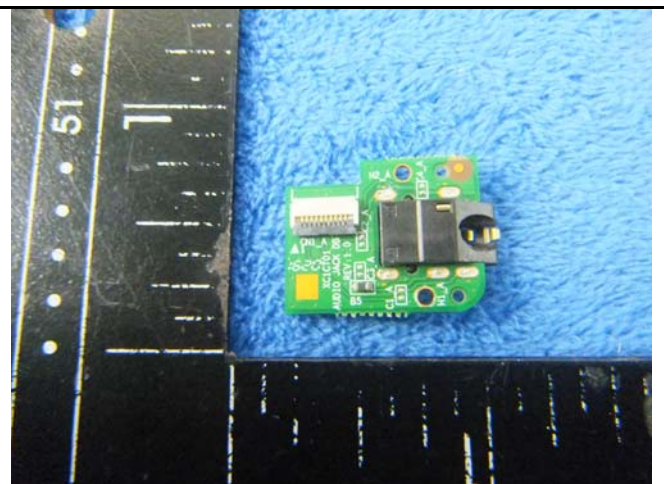
Mainboard - Rear View



Contact board - Front View

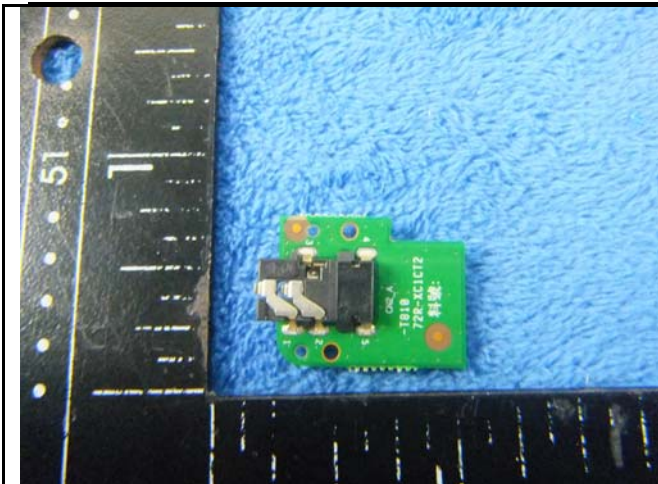


Contact board - Rear View

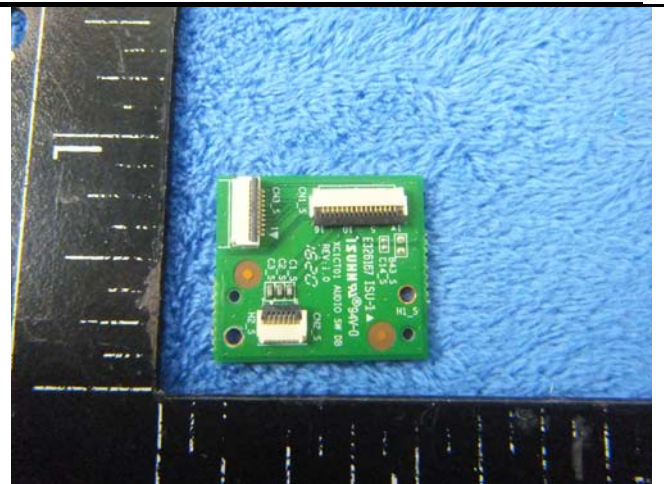


Audio board - Front View

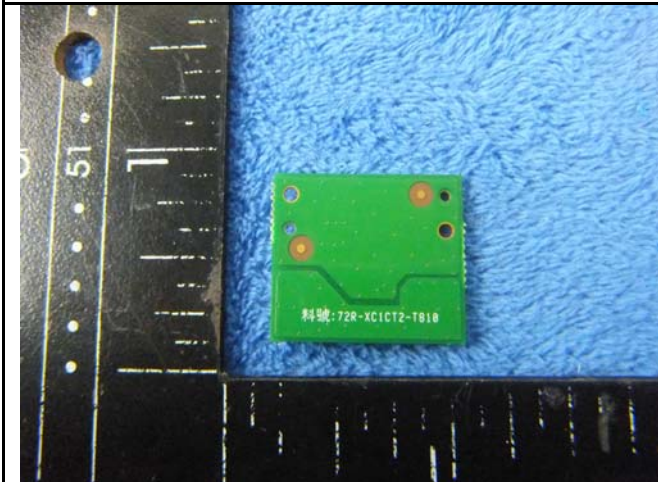




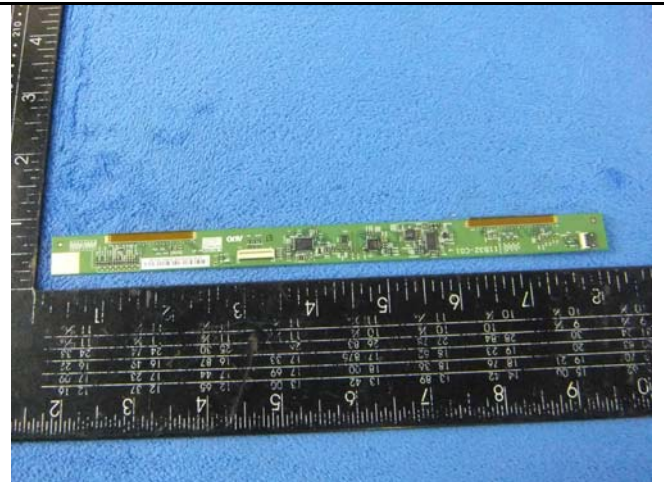
Audio board - Rear View



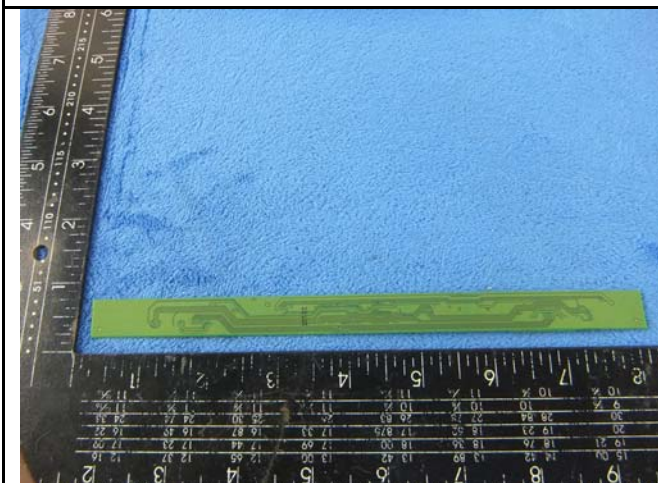
On/off board – Front View



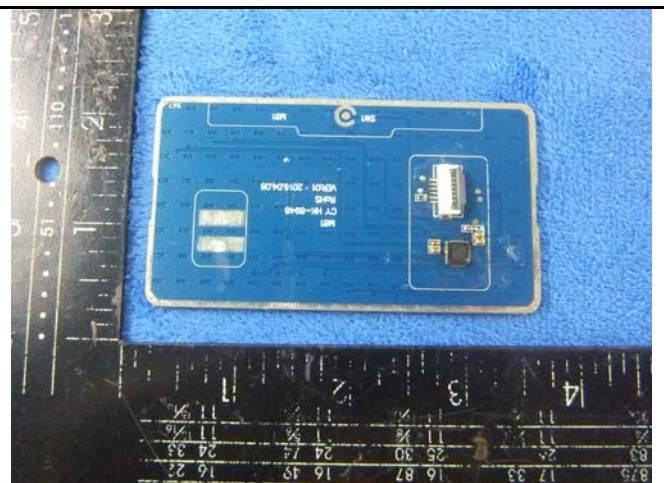
On/off board - Rear View



Small board – Front View

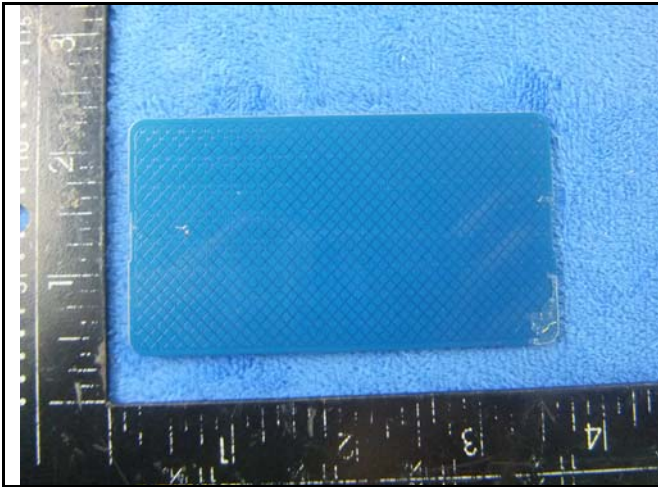


Small board - Rear View

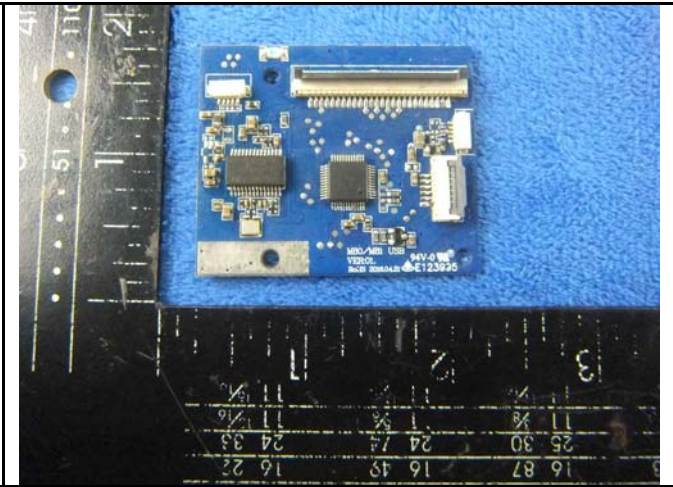


Keyboard board- Front View

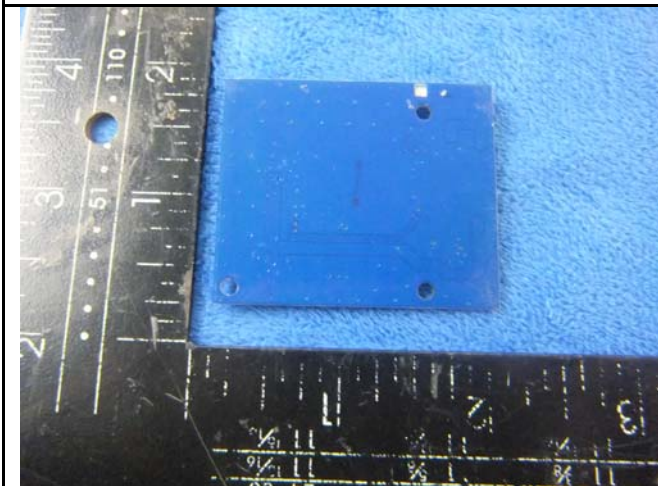




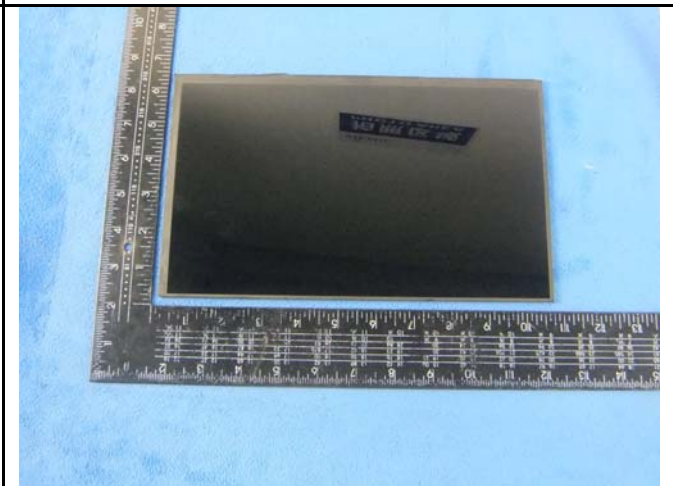
Keyboard board- Rear View



Small Keyboard board- Front View



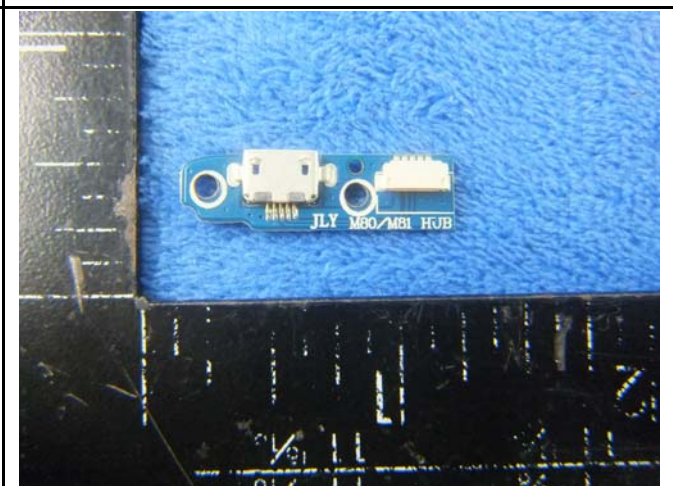
Small Keyboard board- Rear View



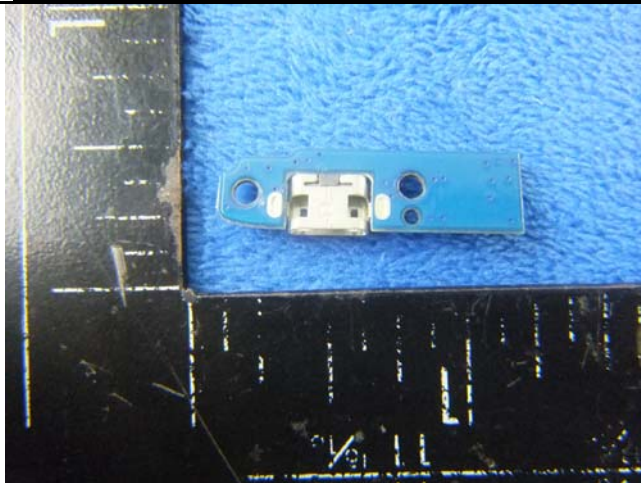
LCD – Front View



LCD – Rear View



Connect board- Front View



Connect board- Rear View



BT/WIFI Cricuit



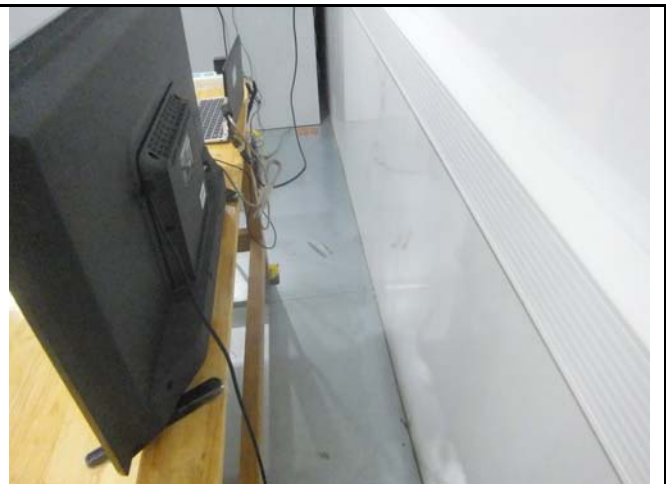
WIFI/BT - Antenna View



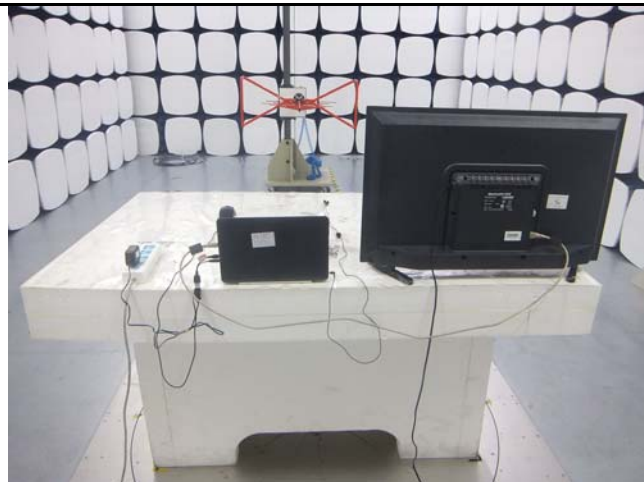
**Annex B.iii. Photograph: Test Setup Photo**



Conducted Emissions Test Setup – Front View



Conducted Emissions Test Setup – Side View



Radiated Emissions Test Setup Below 1GHz

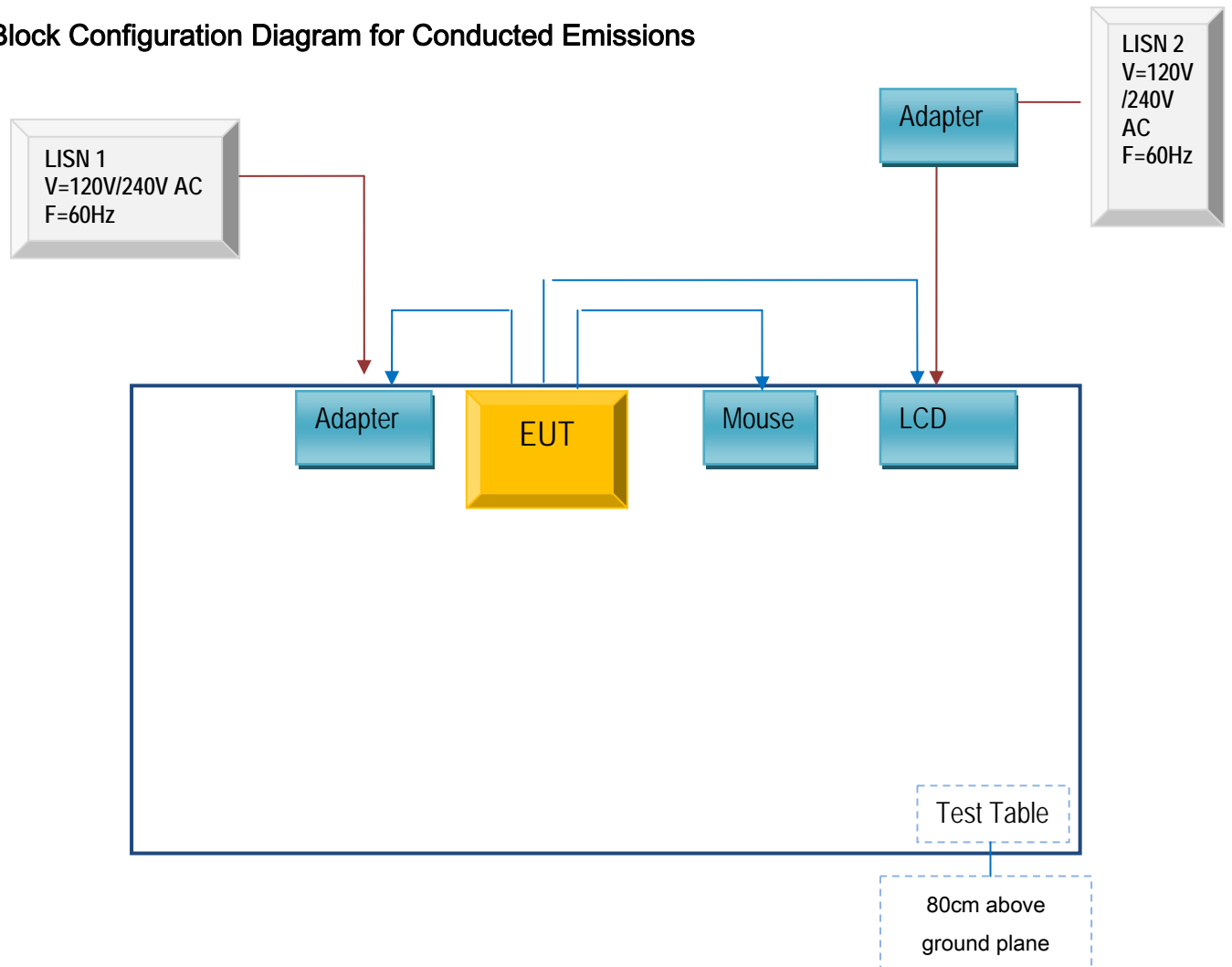


Radiated Emissions Test Setup Above 1GHz

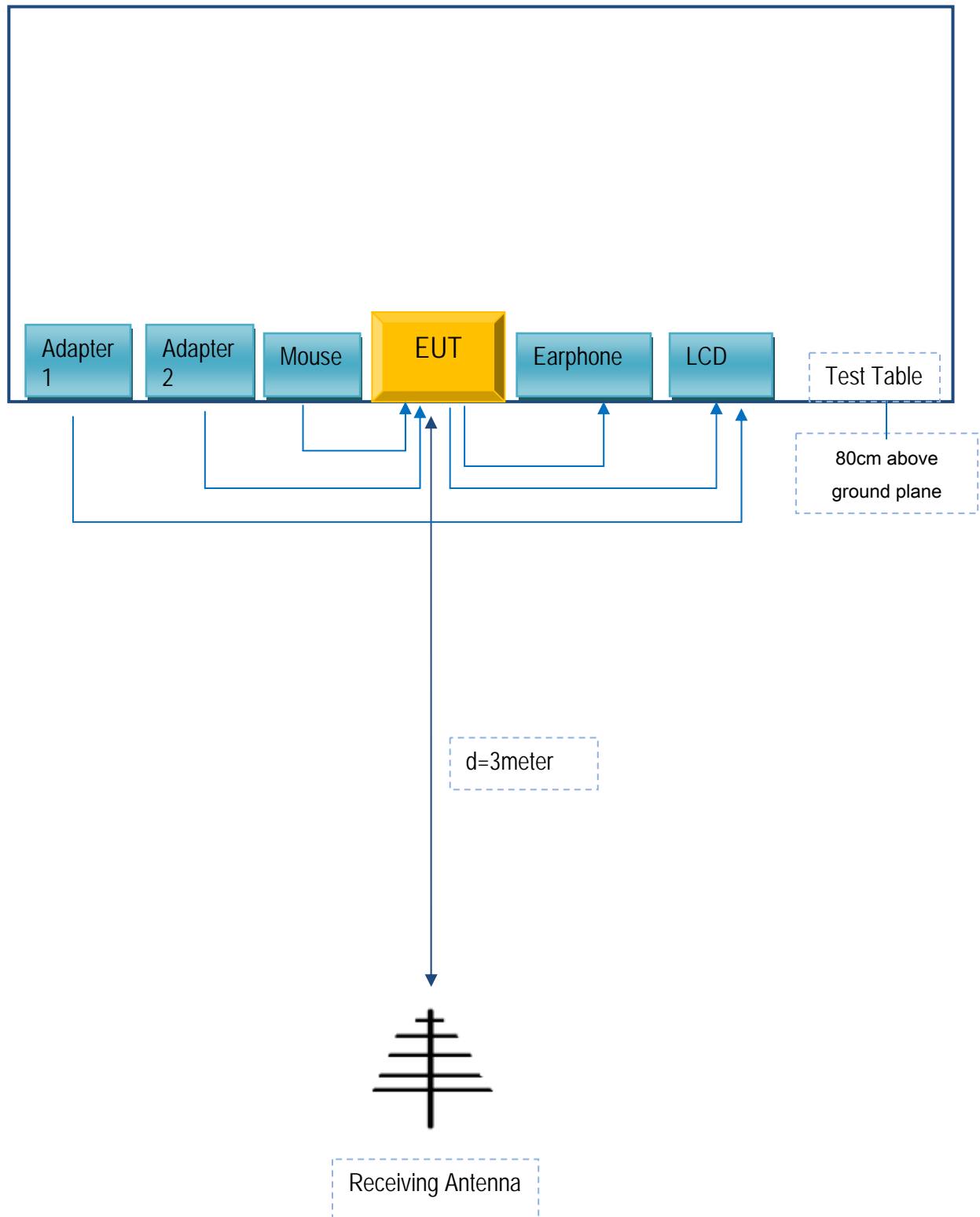
## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

### Annex C.ii. TEST SET UP BLOCK

#### Block Configuration Diagram for Conducted Emissions



## Block Configuration Diagram for Radiated Emissions



## **Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION**

The following is a description of supporting equipment and details of cables used with the EUT.

### **Supporting Equipment:**

Manufacturer	Equipment Description	Model	Serial No
Skyworth	LCD	32*3	R201535
Bean Information Technology Co., Ltd	Adapter	PS12F050K2000UD	P2016073
Skyworth	AC Adapter	32*3	R201535
DELL	Mouse	E100	912NMTUT41481
BULL	Socket	GN-403	GN201203

### **Supporting Cable:**

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	2m	JX120051274
USB Cable	Un-shielding	No	2m	CBA3000AH0C1
Earphone cable	Un-shielding	No	0.8m	T2016535
Power Cable	Un-shielding	No	0.8m	GT211032

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## Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see the attachment




## Annex E. DECLARATION OF SIMILARITY

### Differences Declaration

To whom concern, We company **Bean Information Technology Co.,ltd** hereby declares: The product models W1001 is identical in the same PCB layout, interior structure and electrical circuits with the model W1102 which tested in SIEMIC (Shenzhen-China) Laboratories, the only differences are the model name and appearance color for commercial purpose.

Authorized signature: 2/30/16

Position: PM

Company stamp: 

Date: 20160902