

RF TEST REPORT



Report No.: 16070501-FCC-R2

Supersede Report No.: N/A

Applicant	Borqs BeiJing Ltd.	
Product Name	6 inch Tablet Remote	
Model No.	XR6	
Serial No.	N/A	
Test Standard	FCC Part 15.247: 2015, ANSI C63.10: 2013	
Test Date	May 07 to May 22, 2016	
Issue Date	May 24, 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"/>		
<i>Winnie Zhang</i>	<i>David Huang</i>	
Winnie Zhang 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

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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
16070501-FCC-R2	NONE	Original	May 24, 2016

2. Customer information

Applicant Name	Borqs BeiJing Ltd.
Applicant Add	Tower A, Building B23, Universal Business Park, No. 10 Jiuxianqiao Road, Chaoyang District Beijing, 100015 China
Manufacturer	Borqs BeiJing Ltd.
Manufacturer Add	Tower A, Building B23, Universal Business Park, No. 10 Jiuxianqiao Road, Chaoyang District Beijing, 100015 China

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:	6 inch Tablet Remote
Main Model:	XR6
Serial Model:	N/A
Date EUT received:	May 06, 2016
Test Date(s):	May 07 to May 22, 2016
Equipment Category :	DTS
Antenna Gain:	Bluetooth: 1.0dBi WIFI (2.4G): 1.0dBi WIFI (5G): 1.0dBi
Type of Modulation:	802.11b/g/n: DSSS, OFDM WIFI(802.11a): OFDM Bluetooth: GFSK, π /4DQPSK, 8DPSK
RF Operating Frequency (ies):	WIFI:802.11b/g/n(20M): 2412-2462 MHz WIFI:802.11n(40M): 2422-2452 MHz WIFI (5G 802.11a/n(HT20):5180-5240 MHz; WIFI (802.11n(HT40):5190-5230 MHz; Bluetooth: 2402-2480 MHz
Number of Channels:	WIFI :802.11b/g/n(20M): 11CH WIFI :802.11n(40M): 7CH WIFI 5.19-5.23G(a):7CH WIFI 5.755-5.795G(a):8CH Bluetooth: 79CH
Port:	Earphone Port, USB Port

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Adapter :

Model: ASUC72a-050120

Input: AC 100-240V~50/60Hz,0.2A

Input Power:

Output: DC 5.0V,1.2A

Battery:

Spec:3.8V, 10.412Wh

Battery Capacity:2470mAh

Trade Name :

VIZIO

FCC ID:

2ABDK-XR6

Note: The difference between the new revision and old revision of XR6 is Antenna, all above were explained in the attached Declaration Letter. And based on the letter the difference, these items “ Bandedg , the spurious radiated emissions and unwanted emission restricted frequency band” is re-evaluated.

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
§15.203	Antenna Requirement	Compliance
§15.247(d)	Band-Edge & Restricted Band	Compliance
§15.205, §15.209, §15.247(d)	Radiated Emissions & Restricted Band	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 Antenna Requirement

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has 1 antennas:

A permanently attached PIFA antenna for Bluetooth and WIFI, the gain is 1.0dBi.

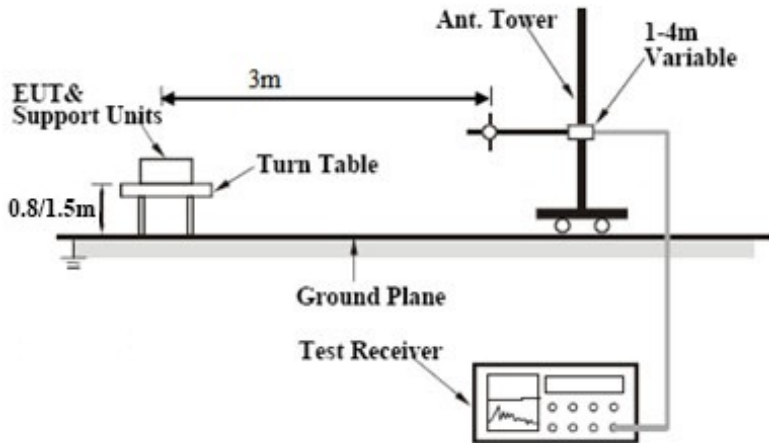
The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.

6.2 Band Edge & Restricted Band

Temperature	22°C
Relative Humidity	59%
Atmospheric Pressure	1017mbar
Test date :	May 17, 2016
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(d)	a)	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.	<input checked="" type="checkbox"/>
Test Setup			
Test Procedure	<p>Radiated Method Only</p> <ul style="list-style-type: none"> 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. 2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range. 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a 		

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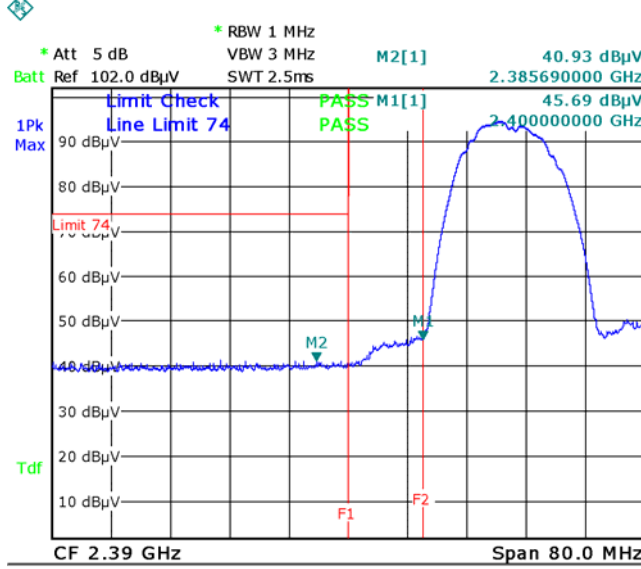
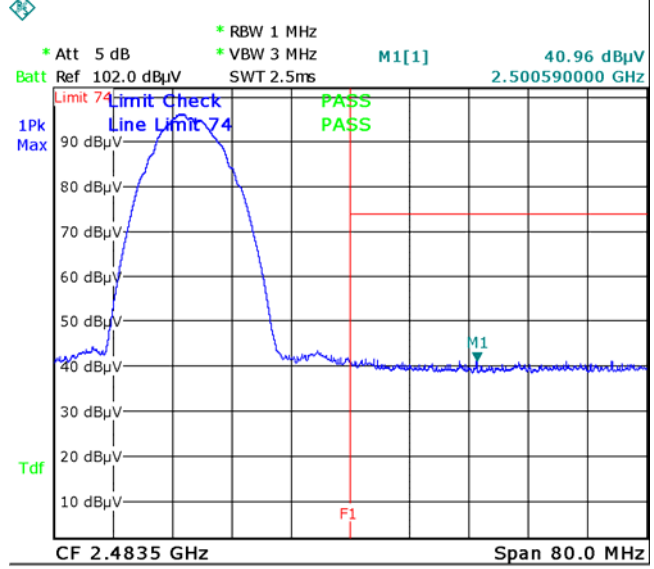
	<p>convenient frequency span including 100kHz bandwidth from band edge, check the emission of EUT, if pass then set Spectrum Analyzer as below:</p> <p>a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.</p> <p>b. 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.</p> <p>c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz with Peak detection for Average Measurement as below at frequency above 1GHz.</p> <ul style="list-style-type: none"> - 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency. - 5. Repeat above procedures until all measured frequencies were complete.
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

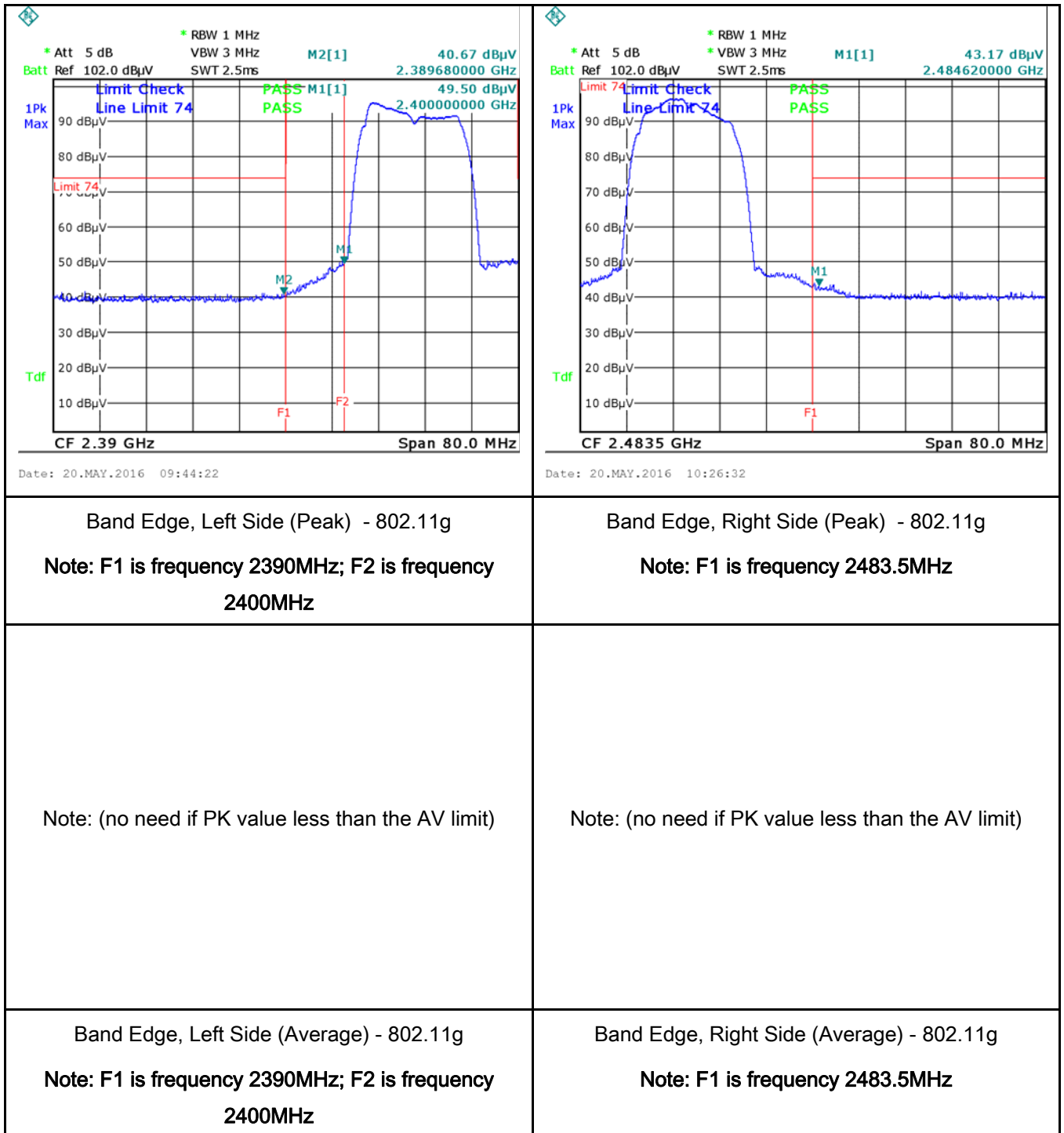
Test Data ☒ Yes ☐ N/A

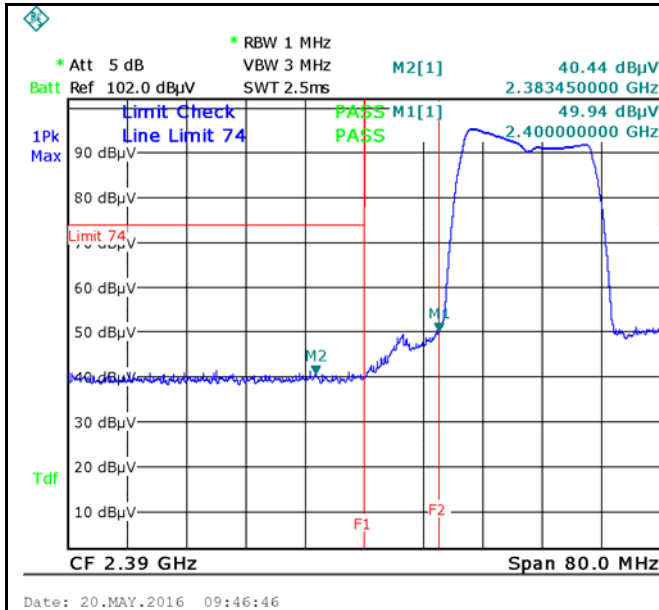
Test Plot ☒ Yes (See below) ☐ N/A

Test Plots

Band Edge measurement result

 <p>Date: 20.MAY.2016 09:37:37</p>	 <p>Date: 20.MAY.2016 10:23:58</p>
<p>Band Edge, Left Side (Peak) - 802.11b</p> <p>Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz</p>	<p>Band Edge, Right Side (Peak) - 802.11b</p> <p>Note: F1 is frequency 2483.5MHz</p>
<p>Note: (no need if PK value less than the AV limit)</p>	<p>Note: (no need if PK value less than the AV limit)</p>
<p>Band Edge, Left Side (Average) - 802.11b</p>	<p>Band Edge, Right Side (Average) - 802.11b</p>

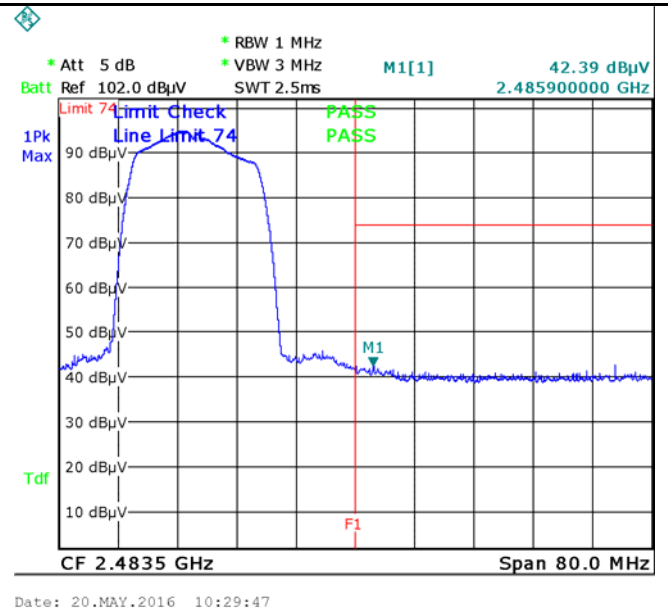




Band Edge, Left Side (Peak) - 802.11n20
Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz

Note: (no need if PK value less than the AV limit)

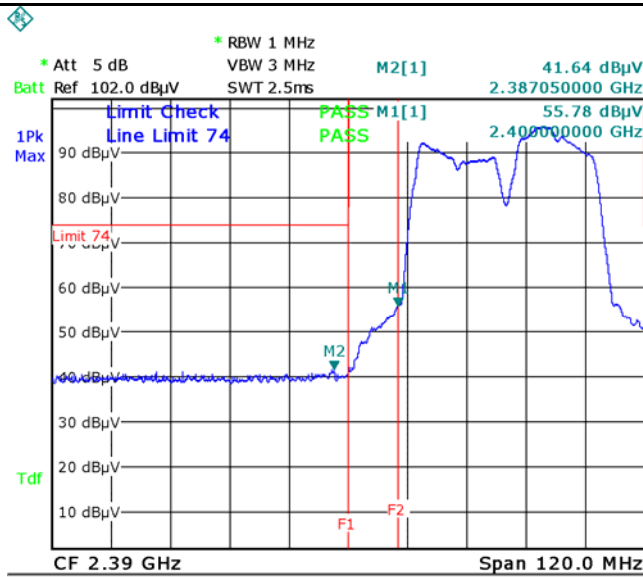
Band Edge, Left Side (Average) - 802.11n20
Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz



Band Edge, Right Side (Peak) - 802.11n20
Note: F1 is frequency 2483.5MHz

Note: (no need if PK value less than the AV limit)

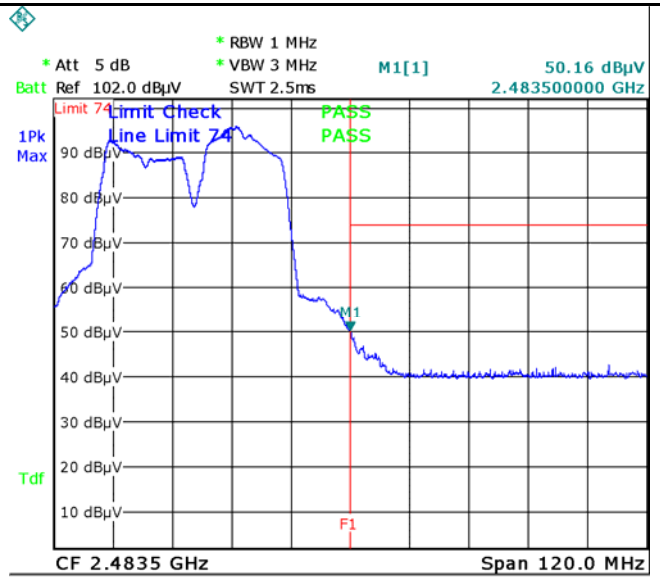
Band Edge, Right Side (Average) - 802.11n20
Note: F1 is frequency 2483.5MHz



Date: 20.MAY.2016 10:14:31

Band Edge, Left Side (Peak) - 802.11n40

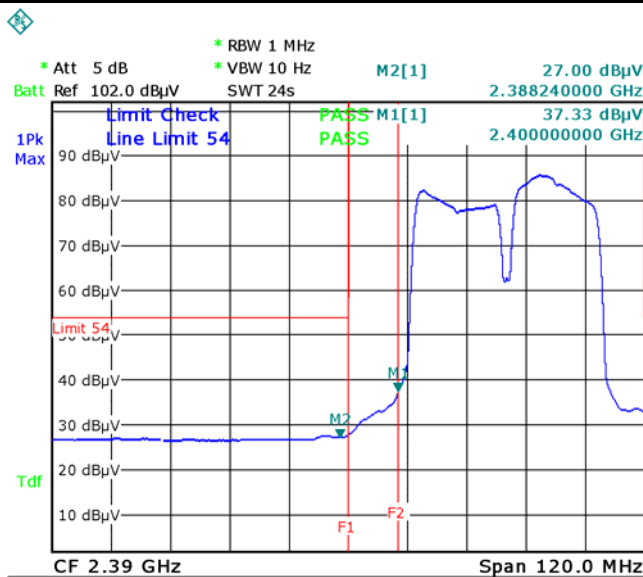
Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz



Date: 20.MAY.2016 10:20:29

Band Edge, Right Side (Peak) - 802.11n40

Note: F1 is frequency 2483.5MHz



Date: 20.MAY.2016 10:16:40

Band Edge, Left Side (Average) - 802.11n40

Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz

Note: (no need if PK value less than the AV limit)

Band Edge, Right Side (Average) - 802.11n40

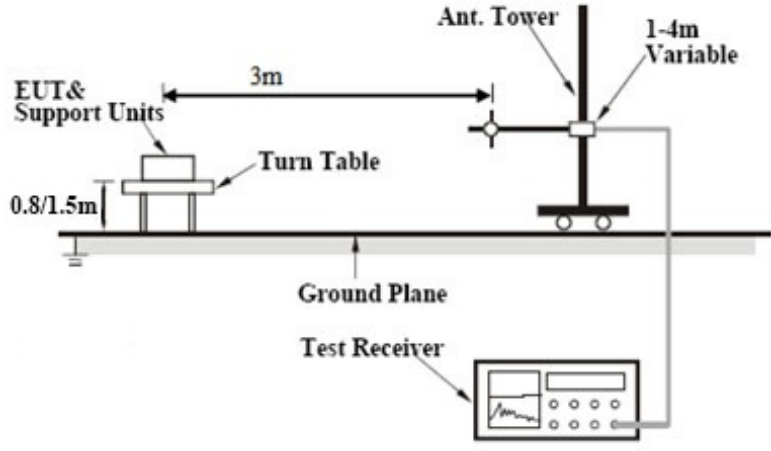
Note: F1 is frequency 2483.5MHz

6.3 Radiated Emissions & Restricted Band

Temperature	25°C
Relative Humidity	53%
Atmospheric Pressure	1020mbar
Test date :	May 20, 2016
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable										
47CFR§15.247(d), RSS210 (A8.5)	a)	<div>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</div> <table><tr><th>Frequency range (MHz)</th><th>Field Strength (µV/m)</th></tr><tr><td>30 – 88</td><td>100</td></tr><tr><td>88 – 216</td><td>150</td></tr><tr><td>216 960</td><td>200</td></tr><tr><td>Above 960</td><td>500</td></tr></table>	Frequency range (MHz)	Field Strength (µV/m)	30 – 88	100	88 – 216	150	216 960	200	Above 960	500	<div><input checked="" type="checkbox"/></div>
	Frequency range (MHz)	Field Strength (µV/m)											
	30 – 88	100											
	88 – 216	150											
216 960	200												
Above 960	500												
b)	<div>For non-restricted band, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB or 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, determined by the measurement method on output power to be used. Attenuation below the general limits specified in § 15.209(a) is not required</div> <div><div><input checked="" type="checkbox"/> 20 dB down</div><div><input type="checkbox"/> 30 dB down</div></div>	<div><input checked="" type="checkbox"/></div>											
c)	<div>or restricted band, emission must also comply with the radiated emission limits specified in 15.209</div>	<div><input checked="" type="checkbox"/></div>											

Test Setup	
Procedure	<ol style="list-style-type: none"> The EUT was switched on and allowed to warm up to its normal operating condition. 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"> Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen. The EUT was then rotated to the direction that gave the maximum emission. Finally, the antenna height was adjusted to the height that gave the maximum emission. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi Peak detection at frequency below 1GHz. 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 is 10Hz with Peak detection for Average Measurement as below at frequency above 1GHz. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.
Remark	Different RF configuration has been evaluated but not much difference was found. The data presented here is the worst case data with EUT under 802.11n – HT20-2437MHz mode.
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

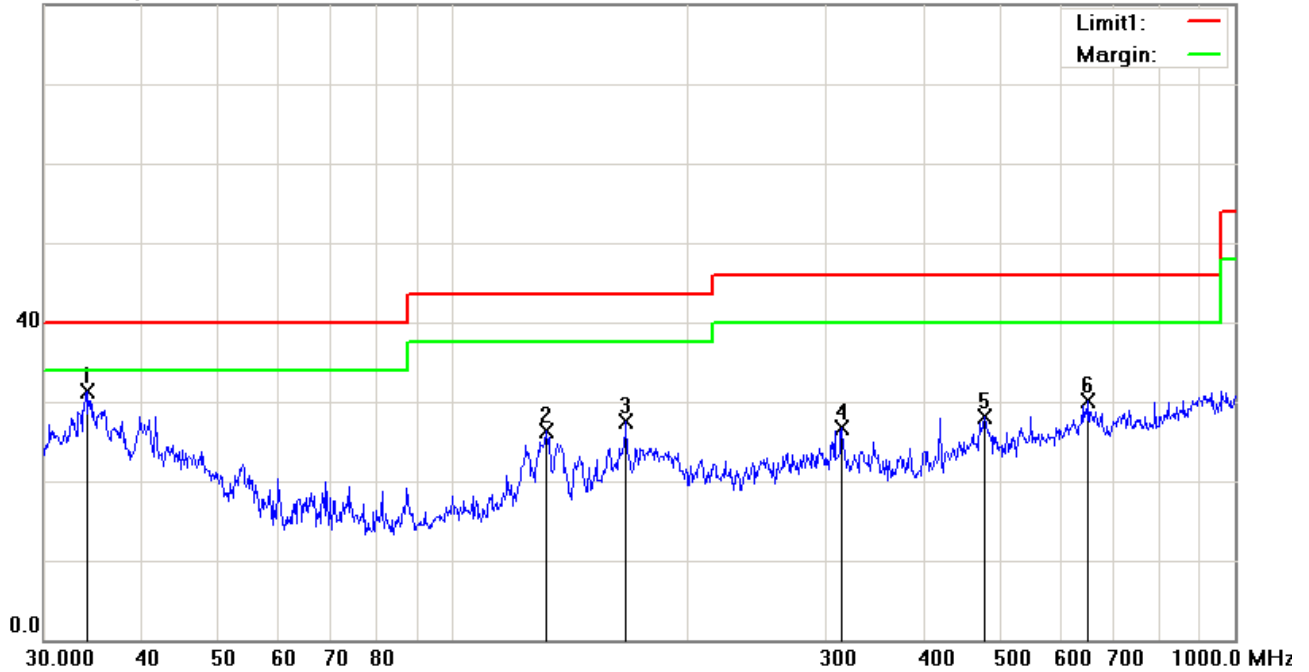
Test Data ☒ Yes ☐ N/A

Test Plot ☐ Yes (See below) ☒ N/A

Test Mode: WIFI Mode

Below 1GHz

80.0 dBuV/m

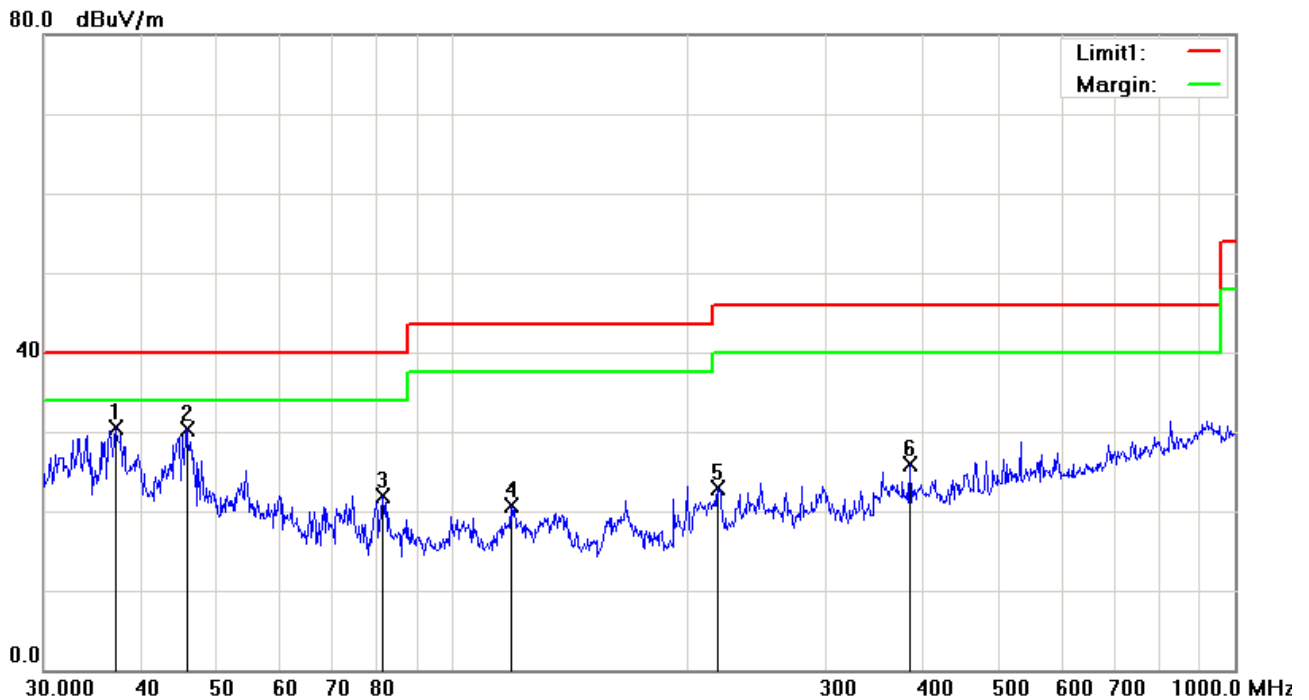


Test Data

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	34.0365	34.52	peak	-3.24	31.28	40.00	-8.72	100	219
2	H	131.7577	34.33	peak	-8.04	26.29	43.50	-17.21	100	133
3	H	166.6514	36.24	peak	-8.82	27.42	43.50	-16.08	100	20
4	H	314.3765	33.23	peak	-6.49	26.74	46.00	-19.26	100	174
5	H	478.8456	30.47	peak	-2.27	28.20	46.00	-17.80	100	258
6	H	649.6597	29.25	peak	0.81	30.06	46.00	-15.94	100	305

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	37.0249	35.86	peak	-5.42	30.44	40.00	-9.56	100	218
2	V	45.6948	41.46	peak	-11.25	30.21	40.00	-9.79	100	131
3	V	81.4970	35.67	peak	-13.69	21.98	40.00	-18.02	100	159
4	V	118.6014	28.32	peak	-7.54	20.78	43.50	-22.72	100	224
5	V	218.3085	31.81	peak	-8.91	22.90	46.00	-23.10	100	180
6	V	383.9318	30.59	peak	-4.67	25.92	46.00	-20.08	100	317

Test Mode:	Transmitting Mode
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Above 1GHz

Mode: b mode (Worst Case)

Low Channel (2412 MHz)

Frequency (MHz)	S.A. Reading (dBμV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4824	38.95	AV	V	34	6.86	31.72	48.09	54	-5.91
4824	38.68	AV	H	33.8	6.86	31.72	47.62	54	-6.38
4824	47.22	PK	V	34	6.86	31.72	56.36	74	-17.64
4824	47.59	PK	H	33.8	6.86	31.72	56.53	74	-17.47
2432	45.51	AV	V	28.7	3.2	33.79	43.62	54	-10.38
2432	45.27	AV	H	28.7	3.2	33.79	43.38	54	-10.62
2432	57.36	PK	V	28.7	3.2	33.79	55.47	74	-18.53
2432	57.23	PK	H	28.7	3.2	33.79	55.34	74	-18.66

Middle Channel (2437 MHz)

Frequency (MHz)	S.A. Reading (dBμV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4874	39.12	AV	V	33.6	6.82	31.82	47.72	54	-6.28
4874	38.85	AV	H	33.8	6.82	31.82	47.65	54	-6.35
4874	47.48	PK	V	33.6	6.82	31.82	56.08	74	-17.92
4874	48.06	PK	H	33.8	6.82	31.82	56.86	74	-17.14
2458	45.44	AV	V	28.96	3.23	33.8	43.83	54	-10.17
2458	45.61	AV	H	28.96	3.23	33.8	44	54	-10
2458	58.02	PK	V	28.96	3.23	33.8	56.41	74	-17.59
2458	58.58	PK	H	28.96	3.23	33.8	56.97	74	-17.03

High Channel (2462 MHz)

Frequency (MHz)	S.A. Reading (dBμV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4924	38.82	AV	V	34.6	6.76	31.92	48.26	54	-5.74
4924	38.77	AV	H	34.7	6.76	31.92	48.31	54	-5.69
4924	47.48	PK	V	34.6	6.76	31.92	56.92	74	-17.08
4924	47.52	PK	H	34.7	6.76	31.92	57.06	74	-16.94
2469	46.05	AV	V	29.01	3.25	33.81	44.50	54	-9.5
2469	46.28	AV	H	29.01	3.25	33.81	44.73	54	-9.27
2469	59.26	PK	V	29.01	3.25	33.81	57.71	74	-16.29
2469	59.03	PK	H	29.01	3.25	33.81	57.48	74	-16.52

Note:

- 1, The testing has been conformed to $10 \times 2462 \text{ MHz} = 24,620 \text{ MHz}$
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and -Axis were investigated. The results above show only the worst case.
4. All modes were investigated. The results above show only the worst case.

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/17/2015	09/16/2016	<input type="checkbox"/>
Line Impedance	LI-125A	191106	09/25/2015	09/24/2016	<input type="checkbox"/>
Line Impedance	LI-125A	191107	09/25/2015	09/24/2016	<input type="checkbox"/>
LISN	ISN T800	34373	09/25/2015	09/24/2016	<input type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	<input type="checkbox"/>
Transient Limiter	LIT-153	531118	09/01/2015	08/31/2016	<input type="checkbox"/>
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/17/2015	09/16/2016	<input type="checkbox"/>
Power Splitter	1#	1#	09/01/2015	08/31/2016	<input type="checkbox"/>
DC Power Supply	E3640A	MY40004013	09/17/2015	09/16/2016	<input type="checkbox"/>
Radiated Emissions					
EMI test receiver	ESL6	100262	09/17/2015	09/16/2016	<input checked="" type="checkbox"/>
Positioning Controller	UC3000	MF780208282	11/19/2015	11/18/2016	<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 (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	<input checked="" type="checkbox"/>
Universal Radio Communication Tester	CMU200	121393	09/25/2015	09/24/2016	<input checked="" type="checkbox"/>

Annex B. EUT and Test Setup Photographs

Annex B.i. Photograph: EUT External Photo



Whole Package View



Adapter - Front View



EUT - Front View

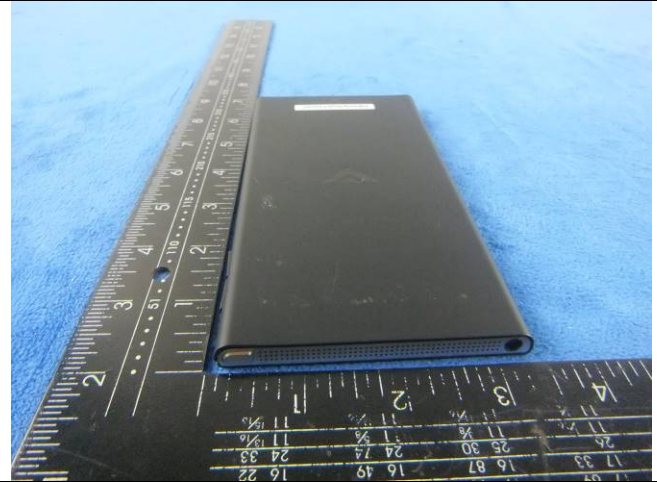


EUT - Rear View

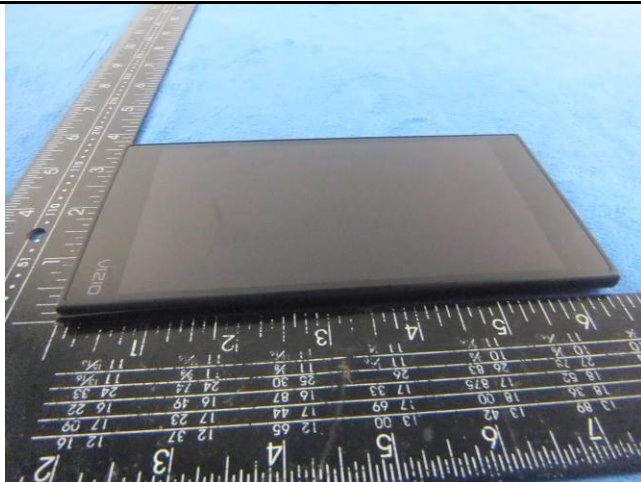
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EUT - Top View



EUT - Bottom View



EUT - Left View



EUT - Right View

Annex B.ii. Photograph: EUT Internal Photo



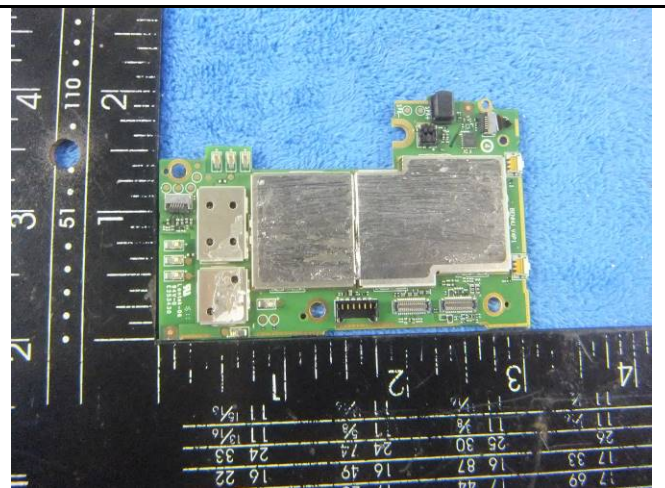
Cover Off - Top View 1



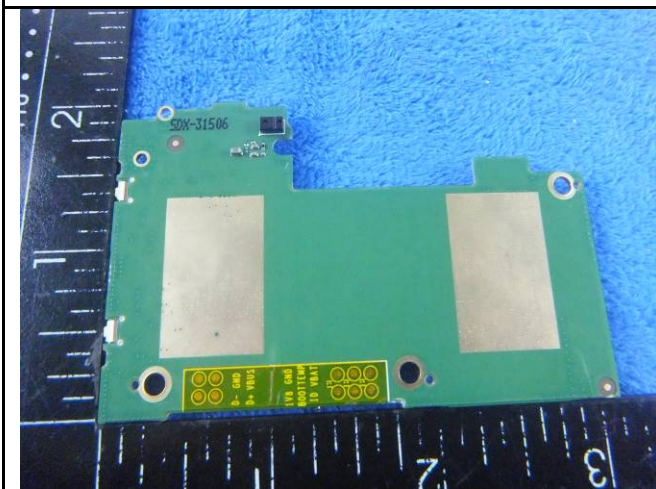
Battery - Front View



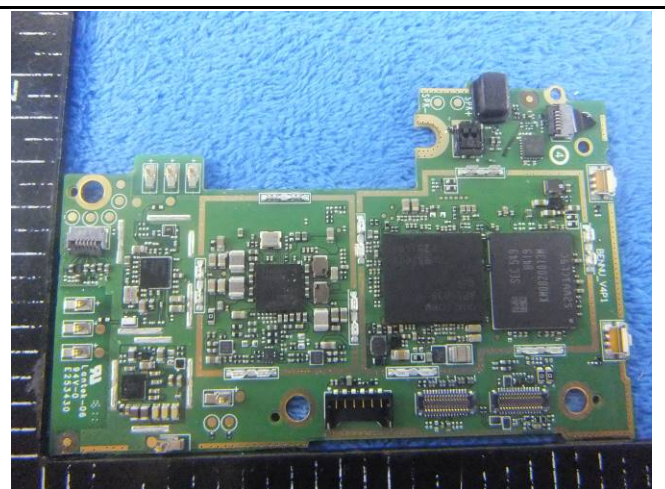
Battery - Rear View



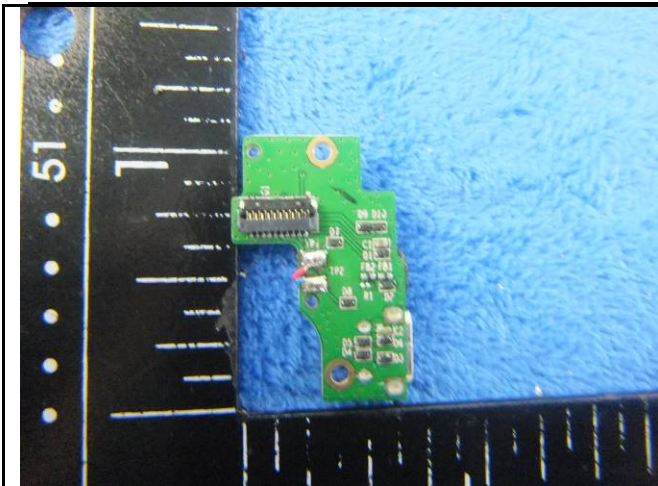
Mainboard with Shielding - Front View



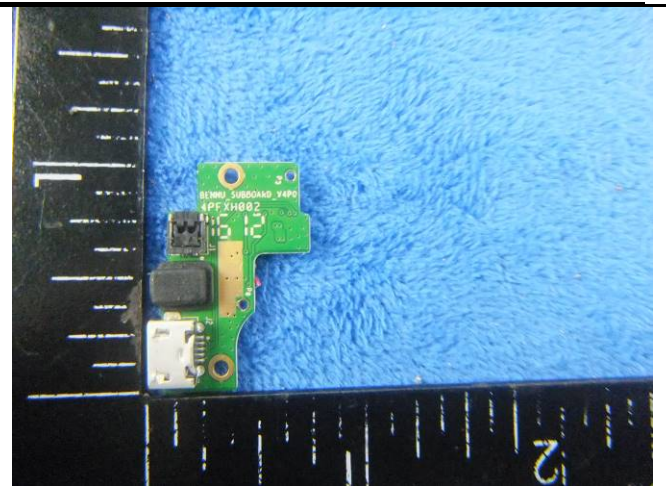
Mainboard - Rear View



Mainboard without Shielding - Front View



Sub Mainboard - Front View



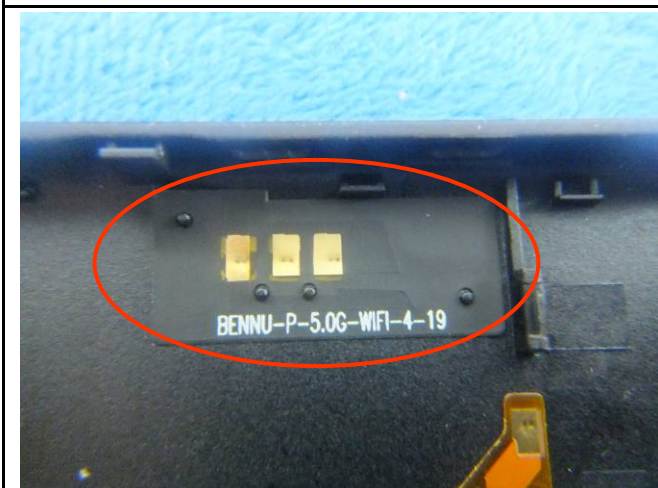
Sub Mainboard – Rear View



LCD – Front View

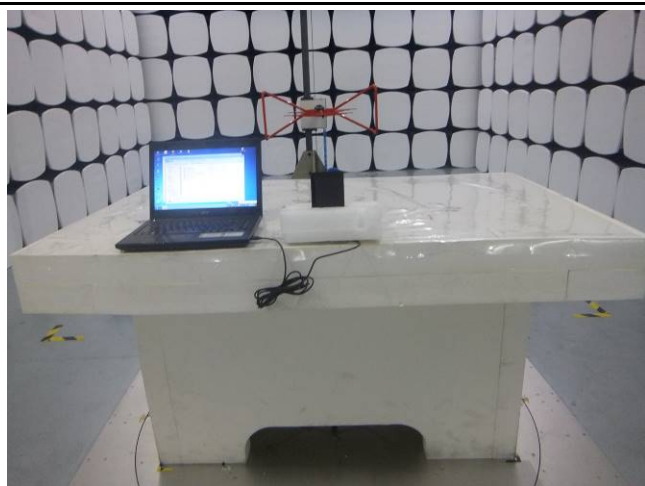


LCD – Rear View

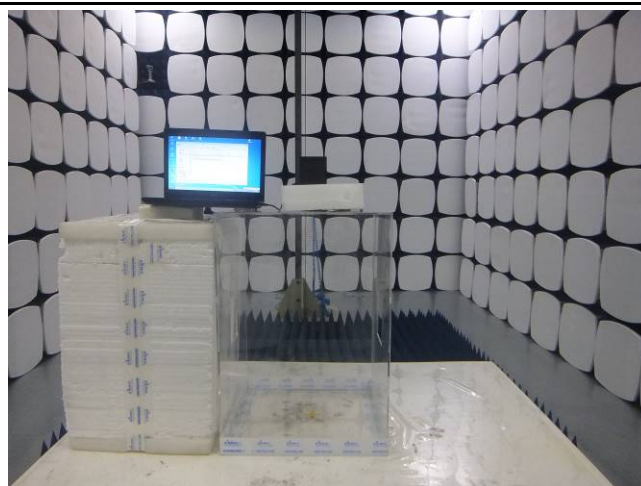


WIFI/BT - Antenna View

Annex B.iii. Photograph: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz

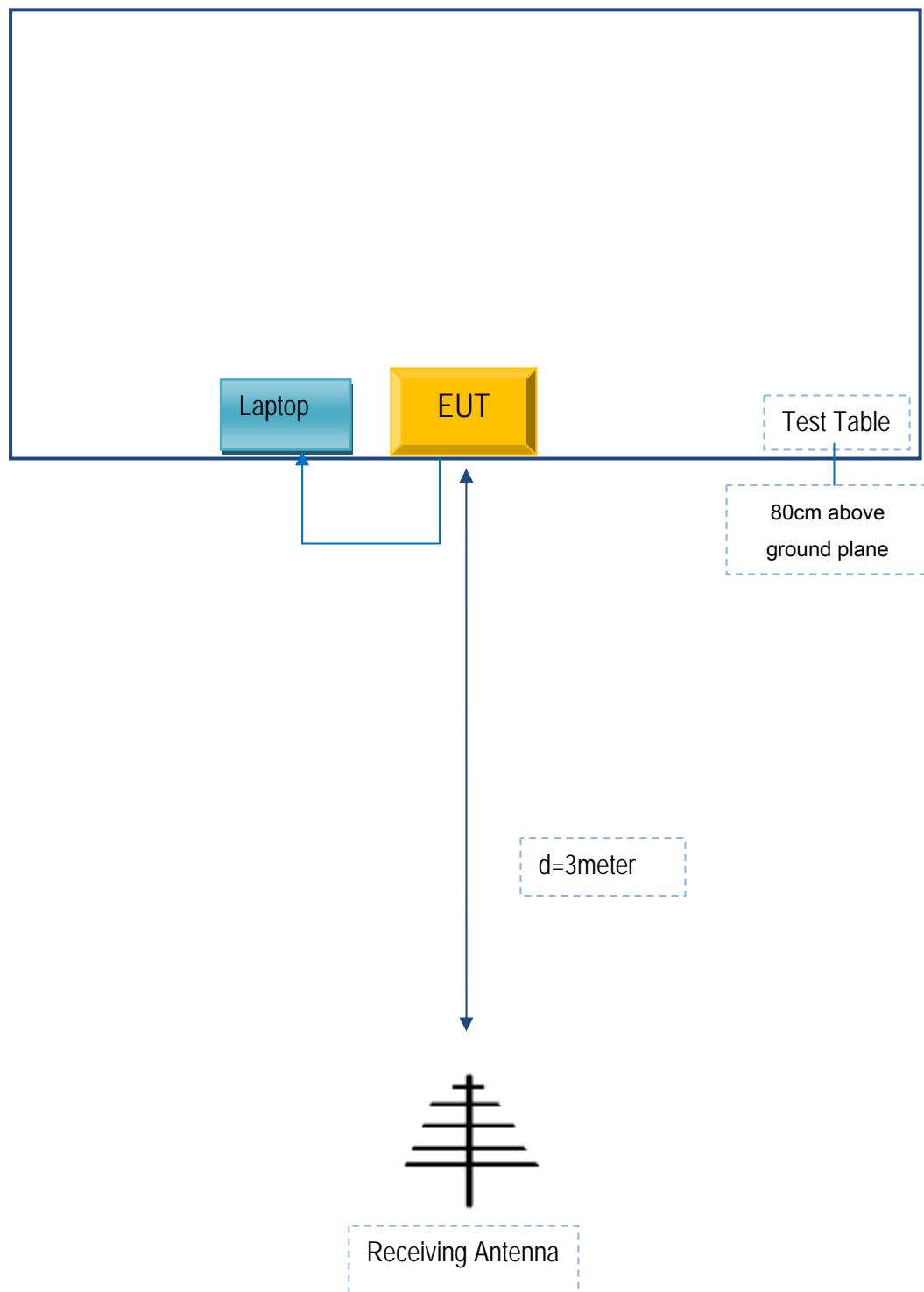


Radiated Spurious Emissions Test Setup Above
1GHz

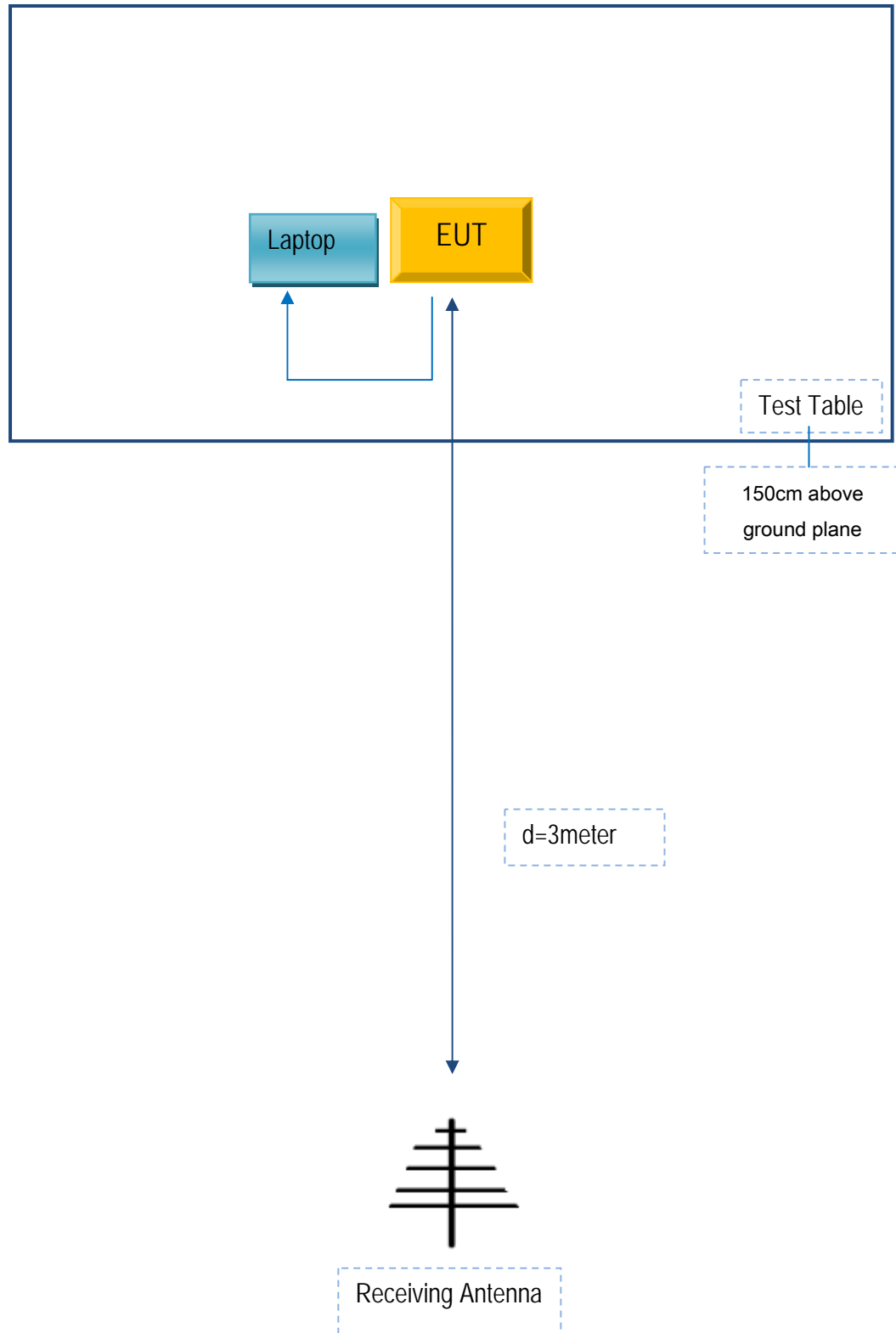
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for Radiated Emissions (Below 1GHz) .



Block Configuration Diagram for Radiated Emissions (Above 1GHz) .



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
Lenovo	Lenovo Laptop	E40	LR-1EHRX
Borqs BeiJing Ltd.	Adapter	ASUC41a-050120	A15302

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	P010253

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

N/A

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Annex E. DECLARATION OF SIMILARITY

Borqs BeiJing Ltd.

FCC Class II Permissive Change Request Letter

Date: 2016-05-26

To FCC:

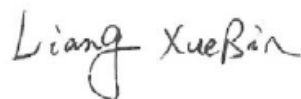
RE: FCC Permissive II Change Request for Company: Borqs BeiJing Ltd. **FCC ID:** 2ABDK-XR6

We are submitting an application for a class II permissive change to the FCC approval of the Company name: Borqs BeiJing Ltd., product description: 6" Tablet Remote (FCC: 2ABDK-XR6, Original Grant Date: 2015-03-13). The transmitter module itself has not changed. Here are the changes:

Change the antenna

Sincerely,

Signature



name / title : xuebin Liang / QA directo

information / address: Tower A, Building B23, Universal

Business Park, No. 10 Jiuxianqiao Road, Chaoyang District Beijing, 100015 China