

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2101268

FCC REPORT

Applicant: Nu Era Telecom Inc

Address of Applicant: 1688 Meridian Av. Suite 700, Miami Beach, FL, US

Equipment Under Test (EUT)

Product Name: Tablet PC

Model No.: X7

Trade mark: XMOBILE

FCC ID: 2A2ERXMOX7

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 05 Jul., 2021

Date of Test: 05 Jul., to 29 Jul., 2021

Date of report issued: 30 Jul., 2021

Test Result: PASS *

Authorized Signature:



Bruce Zhang 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 JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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





2 Version

Version No.	Date	Description
00	30 Jul., 2021	Original

Tested by:	Janet	Wei	Date:	30 Jul., 2021	
	Test Fnain	oor			

Reviewed by: Date: 30 Jul., 2021

Project Engineer

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Project No.: JYTSZE2107009



4 Test Summary

Test Items	Section in CFR 47	Test Data	Result
Antenna requirement	15.203 & 15.247 (b)	See Section 6.1	Pass
AC Power Line Conducted Emission	15.207	See Section 6.2	Pass
Conducted Peak Output Power	15.247 (b)(3)	Appendix A - BLE	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Appendix A - BLE	Pass
Power Spectral Density	15.247 (e)	Appendix A - BLE	Pass
Conducted Band Edge	15 247 (d)	Appendix A - BLE	Pass
Radiated Band Edge	15.247 (d)	See Section 6.6.2	Pass
Conducted Spurious Emission	15.205 & 15.209	Appendix A - BLE	Pass
Radiated Spurious Emission	15.205 & 15.209	See Section 6.7.2	Pass

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: Not Applicable.
- The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method: ANSI C63.10-2013
KDB 558074 D01 15.247 Meas Guidance v05r02

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5 General Information

5.1 Client Information

Applicant:	Nu Era Telecom Inc
Address:	1688 Meridian Av.Suite 700, Miami Beach, FL, US
Manufacturer:	Nu Era Telecom Inc
Address:	1688 Meridian Av.Suite 700, Miami Beach, FL, US

5.2 General Description of E.U.T.

- Jericiai Description	
Product Name:	Tablet PC
Model No.:	X7
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Internal Antenna
Antenna gain:	3.48 dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V, 2500mAh
AC adapter:	Input: AC100-240V, 50/60Hz, 0.3A
	Output: DC 5.0V, 1000mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test. Channel No. 0, 20 & 39 were selected as Lowest, Middle and Highest channel.

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5.3 Test environment and mode

Operating Environment:	Operating Environment:				
Temperature:	24.0 °C				
Humidity:	54 % RH				
Atmospheric Pressure:	1010 mbar				
Test mode:					
Transmitting mode	Keep the EUT in continuous transmitting with modulation				

Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

5.6 Laboratory Facility

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

FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.7 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: http://www.ccis-cb.com

JianYan Testing Group Shenzhen Co., Ltd.

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.



5.8 Test Instruments list

Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	966	01-19-2021	01-18-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-03-2021	03-02-2022
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-18-2021	06-17-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-18-2021	06-17-2022
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2020	11-17-2021
EMI Test Software	AUDIX	E3	V	ersion: 6.110919b	
Pre-amplifier	HP	8447D	2944A09358	03-03-2021	03-02-2022
Pre-amplifier	CD	PAP-1G18	11804	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2020	11-17-2021
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum Analyzer	Agilent	N9020A	MY50510123	11-18-2020	11-17-2021
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-03-2021	03-02-2022
Signal Generator	R&S	SMR20	1008100050	03-03-2021	03-02-2022
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200		Version: 2.0.0.0	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-03-2021	03-02-2022
Cable	MICRO-COAX	MFR64639	K10742-5	03-03-2021	03-02-2022
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-03-2021	03-02-2022
DC Power Supply	XinNuoEr	WYK-10020K	1409050110020	09-25-2020	09-24-2021
Temperature Humidity Chamber	HengPu	HPGDS-500	20140828008	11-01-2020	10-31-2021
Simulated Station	Rohde & Schwarz	CMW500	140493	07-22-2020	07-21-2021
Simulated Station	Ronde & Schwarz	CIVIVV500	140493	07-21-2021	07-20-2022
10m SAC	ETS	RFSD-100-F/A	Q2005	03-31-2021	04-01-2024
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1249	03-31-2021	04-01-2022
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1250	03-31-2021	04-01-2022
EMI Test Receiver	R&S	ESR 3	102800	04-06-2021	04-07-2022
EMI Test Receiver	R&S	ESR 3	102802	04-06-2021	04-07-2022
Pre-amplifier	Bost	LNA 0920N	2016	04-06-2021	04-07-2022
Pre-amplifier	Bost	LNA 0920N	2019	04-06-2021	04-07-2022
Test Software	R&S	EMC32		Version: 10.50.40	

Conducted Emission:							
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-03-2021	03-02-2022		
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-03-2021	03-02-2022		
LISN	CHASE	MN2050D	1447	03-03-2021	03-02-2022		
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	06-18-2021	06-17-2022		
Cable	HP	10503A	N/A	03-03-2021	03-02-2022		
EMI Test Software	AUDIX	E3	\	/ersion: 6.110919l	o		

Conducted method:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
Spectrum Analyzer	Keysight	N9010B	MY60240202	11-27-2020	11-26-2021	
Vector Signal Generator	Keysight	N5182B	MY59101009	11-27-2020	11-26-2021	
Analog Signal Generator	Keysight	N5173B	MY59100765	11-27-2020	11-26-2021	
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-27-2020	11-26-2021	
Simulated Station	Rohde & Schwarz	CMW270	102335	11-27-2020	11-26-2021	



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RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT N/A		N/A	
PDU	MWRF-test	XY-G10	N/A	N/A	N/A	
Test Software	MWRF-tes	MTS 8310	Version: 2.0.0.0			
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2021	

6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement:	FCC Part 15 C Section 15.203 /247(h)
Otaliaala logalioilloitt.	, 1 00 1 alt 10 0 000lion 10.200 /2 1/ (i	\sim ,

15.203 requirement:

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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

E.U.T Antenna:

The BLE antenna is an Internal antenna which cannot replace by end-user, the best-case gain of the antenna is 3.48 dBi.

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6.2 Conducted Emission

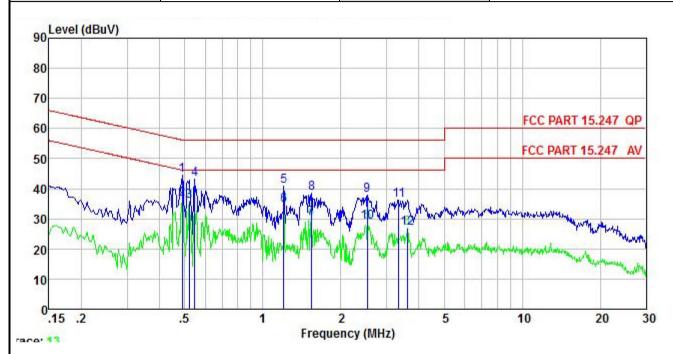
Test Requirement:	FCC Part 15 C Section 15.207	7						
Test Frequency Range:	150 kHz to 30 MHz							
Class / Severity:	Class B							
Receiver setup:	RBW=9kHz, VBW=30kHz							
Limit:	Limit (dBuV)							
-	Frequency range (MHz)	Average						
	0.15-0.5	66 to 56*	56 to 46*					
	0.5-5	56	46					
	5-30	60	50					
	* Decreases with the logarithn	n of the frequency.						
Test procedure:	line impedance stabilizati 500hm/50uH coupling im 2. The peripheral devices at LISN that provides a 500 termination. (Please refer photographs). 3. Both sides of A.C. line are interference. In order to fi	 LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 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 						
Test setup:	Reference	Plane						
	AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Ne	EMI Receiver	– AC power					
	Test table height=0.8m							
Test Instruments:	Refer to section 5.9 for details							
Test mode:	Refer to section 5.3 for details	i						
Test results:	Passed							

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Measurement Data:

Product name:	Tablet PC	Product model:	X7		
Test by:	Janet	Test mode:	BLE Tx mode		
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line		
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%		



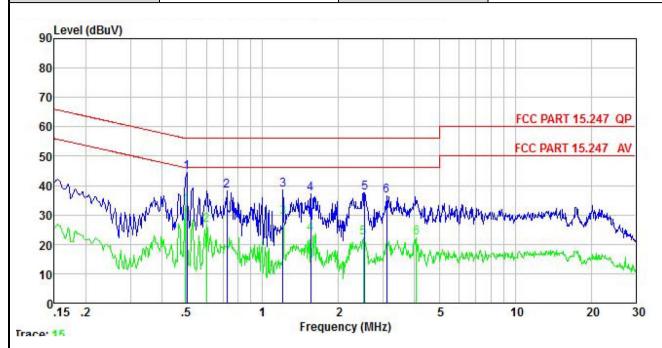
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
<u> </u>	MHz	dBu∜	<u>dB</u>	<u>ā</u> B	<u>ap</u>	dBu₹	—dBu√	<u>dB</u>	
1	0.489	34.38	10.33	-0.26	0.03	44.48	56.19	-11.71	QP
2	0.489	26.50	10.33	-0.26	0.03	36.60	46.19	-9.59	Average
3	0.521	25.85	10.35	-0.36	0.03	35.87	46.00		Average
1 2 3 4 5	0.546	32.99	10.36	-0.36	0.03	43.02	56.00	-12.98	QP
	1.203	30.15	10.50	0.25	0.09	40.99	56.00	-15.01	QP
6 7 8 9	1.203	23.86	10.50	0.25	0.09	34.70	46.00	-11.30	Average
7	1.535	19.68	10.52	-0.03	0.15	30.32	46.00	-15.68	Average
8	1.544	27.76	10.52	-0.03	0.15	38.40	56.00	-17.60	QP
9	2.527	27.53	10.56	-0.26	0.13	37.96	56.00	-18.04	QP
10	2.540	18.43	10.56	-0.25	0.13	28.87	46.00	-17.13	Average
11	3.346	25.75	10.60	-0.15	0.07	36.27	56.00	-19.73	QP
12	3.603	16.39	10.61	-0.10	0.08	26.98	46.00	-19.02	Average

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 + Aux Factor + Cable Loss.



Product name:	Tablet PC	Product model:	X7		
Test by:	Janet	Test mode:	BLE Tx mode		
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral		
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%		



	Freq	Read Level		Aux Factor	Cable Loss		Limit Line		Remark
	MHz	dBu∀	<u>dB</u>	<u>d</u> B		dBu₹	dBu∀	<u>dB</u>	
1	0.502	34.15	10.20	0.03	0.03	44.41	56.00	-11.59	QP
2	0.724	27.70	10.39	0.04	0.03	38.16	56.00	-17.84	QP
3	1.203	27.64	10.62	0.10	0.09	38.45	56.00	-17.55	QP
4	1.552	26.25	10.71	0.14	0.15	37.25	56.00	-18.75	QP
5	2.540	26.44	10.86	0.25	0.13	37.68	56.00	-18.32	QP
1 2 3 4 5	3.107	25.37	10.91	0.33	0.07	36.68	56.00	-19.32	QP

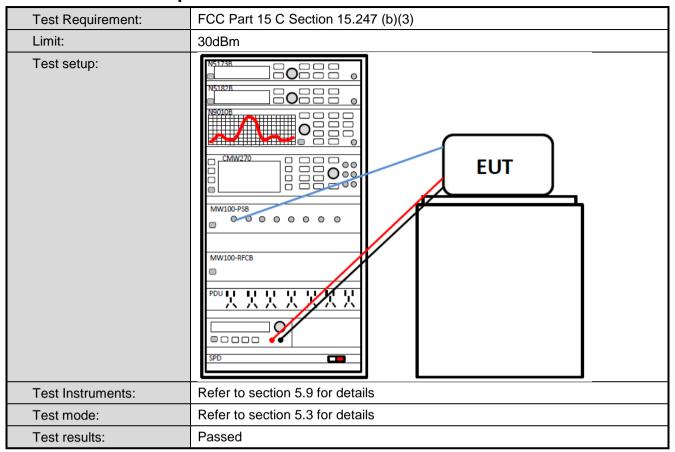
Notes:

- 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 + Aux Factor + Cable Loss.





6.3 Conducted Output Power



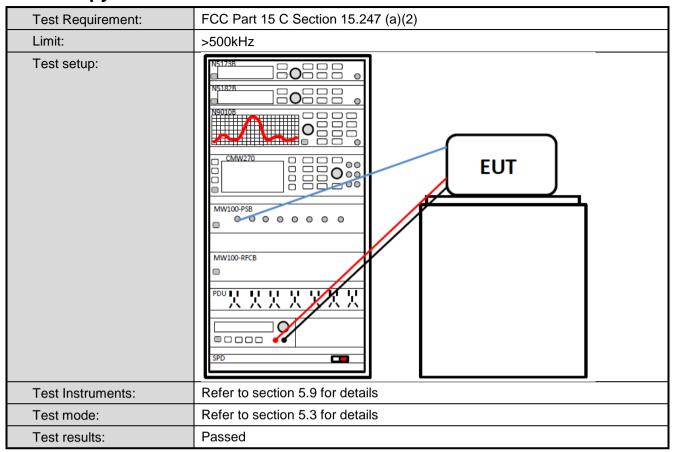
Measurement Data: Refer to Appendix A - BLE

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6.4 Occupy Bandwidth



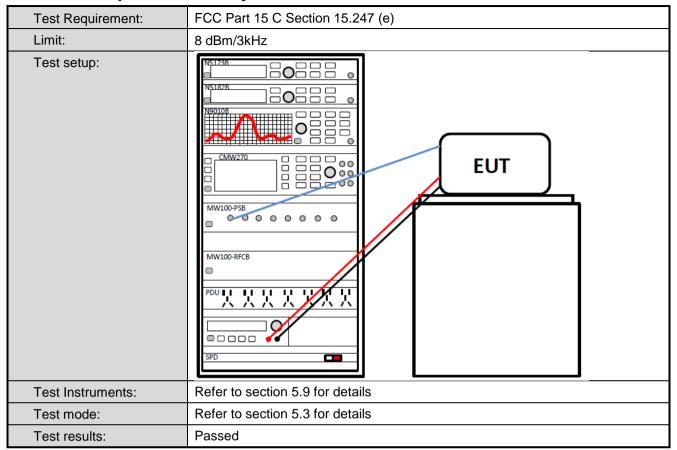
Measurement Data: Refer to Appendix A - BLE

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6.5 Power Spectral Density



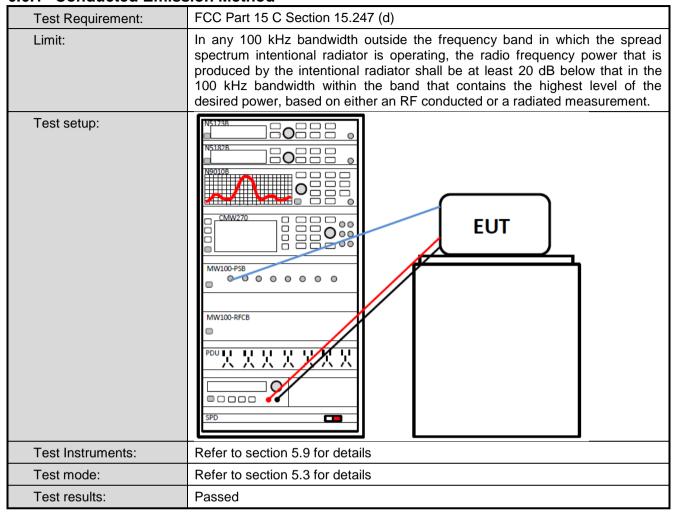
Measurement Data: Refer to Appendix A - BLE

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6.6 Band Edge

6.6.1 Conducted Emission Method



Measurement Data: Refer to Appendix A - BLE

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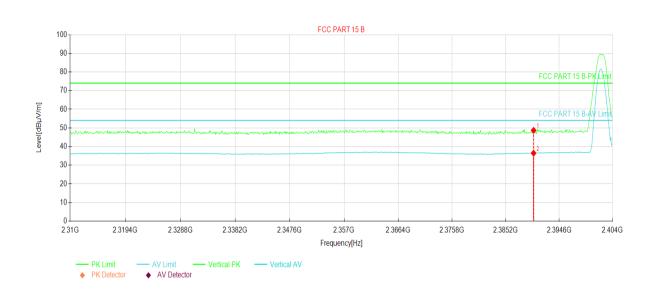


Radiated Emission Method 6.6.2

Test Requirement:		FCC Part 15 C Section 15.205 and 15.209							
Test Frequency Range:	2310 MHz to 2	2390 MHz and	2483.5MHz to 2	2500 MHz					
Test Distance:	3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Remark				
·	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
		RMS	1MHz	3MHz	Average Value				
Limit:	Frequer	ncy Liı	mit (dBuV/m @3		Remark				
	Above 10	GHz —	54.00 74.00		verage Value Peak Value				
Test Procedure:	the groun to determ 2. The EUT antenna, tower. 3. The anter the groun Both horiz make the 4. For each case and meters are to find the 5. The test-I Specified 6. If the emit the limit so of the EU have 10 ce	ad at a 3 meter inne the position was set 3 met which was mound height is varied to determine zontal and vert measurement suspected emother the anternal the rota table maximum reasurement be maximum reasured to the rota table maximum reasurement of the rota table maximum reasurement be maximum reasurement of the rota table maximum reasurement of the rota table of the receiver system. Bandwidth with specified, then the rotal table of the rotal table of the region of the region of the rotal table of the	the top of a rot camber. The tan of the highest ers away from the unted on the top aried from one rethe maximum vical polarization ission, the EUT in a was turned from was set to Peading. In was set to Peading to Maximum Hole EUT in peak testing could be ported. Otherwis	ating table 1. ble was rotat radiation. he interference of a variable meter to four value of the fi s of the ante was arrange of heights from of degrees ak Detect Fund Mode. mode was 1 stopped and the the emissione by one u	ted 360 degrees ce-receiving e-height antenna meters above ield strength. nna are set to d to its worst m 1 meter to 4 s to 360 degrees nction and 0 dB lower than d the peak values ons that did not sing peak, quasi-				
Test setup:	AE (T	Test Receiver	Horn Antenna 3m Reference Plane	Antenna Tower					
Test Instruments:	Refer to section	on 5.9 for detai	ls						
Test mode:	Refer to section	on 5.3 for detai	ls						
Test results:	Passed								



Product Name:	Tablet PC	Product Model:	X7
Test By:	Janet	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



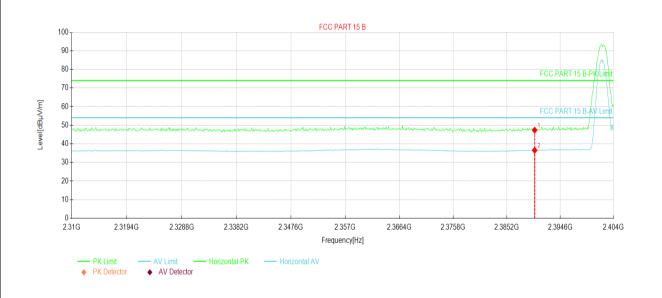
Suspe	Suspected Data List∂											
NO.₽	Freq.	Reading.	Level	Factor	Limit.	Margin⊌	Trace	Polarity∂				
	[MHz]∂	[dBµV/m]₽	[dBµV/m]∂	[dB]∂	[dBµV/m]∂	[dB]∂						
1₽	2390.08	41.60₽	48.68₽	7.08₽	74.00₽	25.32₽	PK₽	Vertical₽				
2₽	2390.08	29.39₽	36.47₽	7.08₽	54.00₽	17.53₽	AV₽	Vertical₽				

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	Tablet PC	Product Model:	X7
Test By:	Janet	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



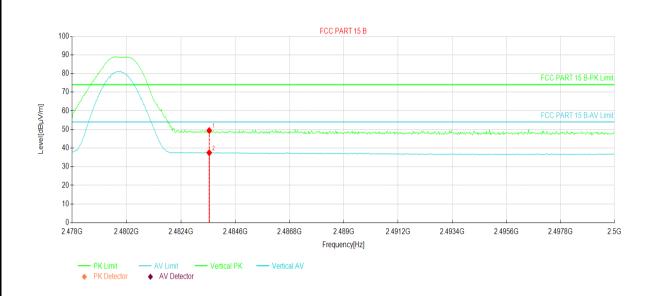
Suspe	Suspected Data List											
NO.₽	Freq.⊌	Reading⊬	Level	Factor	Limit⊬	Margin⊌	Trace	Polarity₽				
NO.	[MHz]∂	[dBµV/m]₽	[dBµV/m]∂	[dB]∂	[dBµV/m]∂	[dB]∂	Hace⊬	Folanty				
1₽	2390.08	40.29₽	47.37₽	7.08₽	74.00₽	26.63₽	PK₽	Horizontal₽⊸				
2₽	2390.08	29.47₽	36.55₽	7.08₽	54.00₽	17.45₽	AV₄	Horizontal₽⊸				

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	Tablet PC	Product Model:	X7
Test By:	Janet	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

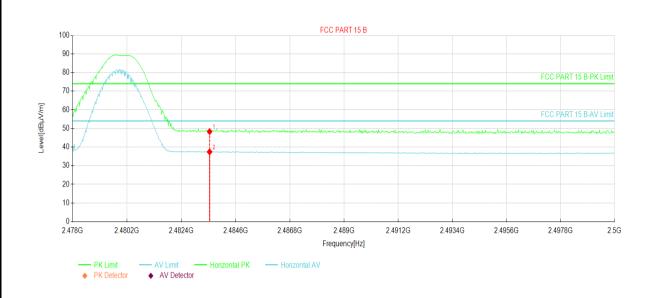


Suspected Data List									
NO.	Freq.⊬ [MHz]∂	Reading⊮ [dBµV/m]⊮	Level⊬ [dBµV/m]₄	Factor⊬ [dB]∉	Limit⊬ [dBµV/m]₄	Margin⊬ [dB]⊬	Trace	Polarity∂	
1₽	2483.54	41.71₽	49.40₽	7.69₽	74.00₽	24.60₽	PK₽	Vertical₽	
2₽	2483.54	29.81₽	37.50₽	7.69₽	54.00₽	16.50₽	AV₽	Vertical₽	

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Tablet PC	Product Model:	X7
Test By:	Janet	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



Suspected Data List									
NO.₽	Freq.⊌ [MHz]⊌	Reading⊮ [dBuV/m]⊮	Level⊬ [dBµV/m]∉	Factor⊬ [dB]⊬	Limit⊮ [dBuV/m]⊮	Margin⊬ [dB]⊬	Trace∂	Polarity∂	
1₽	2483.54	40.61 _€	48.30₽	7.69₽	74.00	25.70₽	PK₽	Horizontal∂	
2₽	2483.54	29.74₽	37.43₽	7.69₽	54.004	16.57₽	AV₽	Horizontal₽	

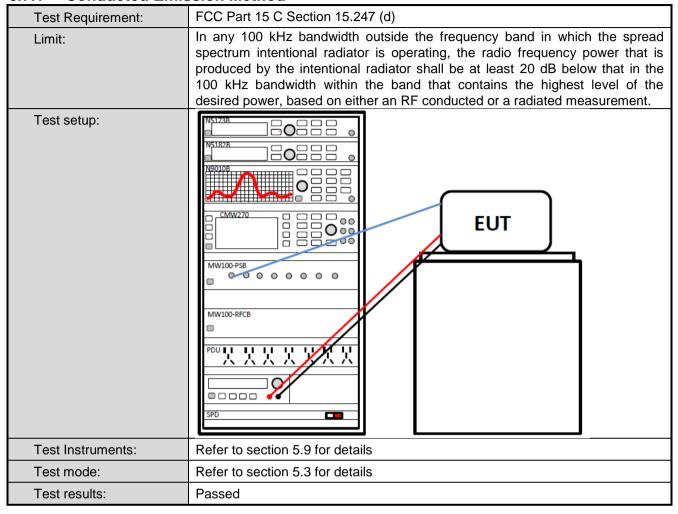
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.





6.7 Spurious Emission

6.7.1 Conducted Emission Method



Measurement Data: Refer to Appendix A - BLE

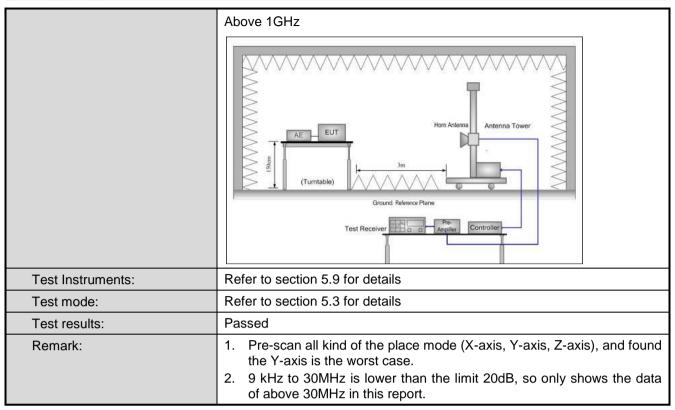


6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.205 and 15.209						
Test Frequency Range:	9kHz to 25GHz						
Test Distance:	3m or 10m						
Receiver setup:	Frequency	Detector	r	RBW	VB	W	Remark
	30MHz-1GHz	Quasi-pea	ak	120KHz	3001	КНz	Quasi-peak Value
	Above 1GHz	Peak		1MHz	3M	Hz	Peak Value
	710070 10112	RMS		1MHz	3M	Hz	Average Value
Limit:	Frequency		Lim	it (dBuV/m @	10m)		Remark
	30MHz-88M			30.0			Quasi-peak Value
	88MHz-216N	•		33.5			Quasi-peak Value
	216MHz-960I			36.0 44.0			Quasi-peak Value
	960MHz-1G		Lin	nit (dBuV/m @	3m)		Quasi-peak Value Remark
	Frequency	y	LIII	54.0	3111)		Average Value
	Above 1GF	lz 🗀		74.0			Peak Value
Test Procedure:	1. The EUT	was place	ed o		f a ro	tating	table 0.8m(below
Test Procedure:	1GHz)/1.5r (below 1G rotated 36 radiation. 2. The EUT waway from on the top of 3. The antend the ground Both horized make the number of the extended to find the second to find the sec	m(above 10 iHz)or 3 m in a degrees vas set 10 m the interfer of a variable ha height is if to determ ontal and v neasureme suspected hen the and if the rota ta maximum m eceiver sys Bandwidth v sion level of ecified, the would be margin wo	GHz mete s to mete eren le-he is va nine ent. emi able read sten with rep ould	z) above the er chamber(a) determine ers(below 10 nce-receiving eight antennaried from or the maximulation, the Ena was tuned ling. In was set Maximum Hare EUT in peresting could be orted. Other if the re-tested	ground above the part of the p	I at a a 1GHz consition of 3 me na, where the a constant of the acceptance of the ac	10 meter chamber 10. The table was nof the highest eters (above 1GHz) nich was mounted four meters above the field strength. In the strength of the strength o
Test setup:	Below 1GHz Turn Table Ground Plane	4m			S A RF	Antenna To earch untenna Test ceiver	ower

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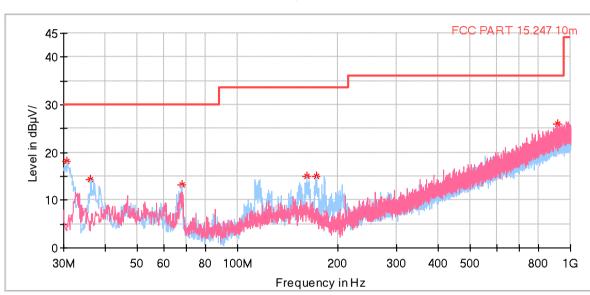


Measurement Data (worst case):

Below 1GHz:

Product Name:	Tablet PC	Product Model:	X7
Test By:	Janet	Test mode:	BLE Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical & Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%





Critical Freqs

•	Frequency↓ (MHz)∂	MaxPeak↓ (dB µ V/m)∂	Limit↓ (dB μ V/m)∞	Margin↓ (dB)∂	Height↓ (cm)∂	Polℯ	Azimuth↓ (deg)⊮	Corr.↓ (dB/m)∂
-	30.776000₽	18.05₽	30.00₽	11.95₽	100.0₽	H₽	293.0₽	-17.2₽
-	36.208000₽	14.27₽	30.00₽	15.73₽	100.0₽	H₽	42.0₽	-16.3₽
-	67.830000₽	13.13₽	30.00₽	16.87₽	100.0₽	H₽	6.0₽	-18.2₽
-	161.435000₽	14.92₽	33.50₽	18.58₽	100.0₽	H₽	265.0₽	-14.7₽
•	172.881000₽	15.02₽	33.50∂	18.48₽	100.0₽	H₽	186.0₽	-15.7∂
-	918.423000	25.96₽	36.00₽	10.04₽	100.0₽	V₽	249.0₽	-0.5₽

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.



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Above 1GHz

Test channel: Lowest channel									
	Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4804.00	57.53	-9.60	47.93	74.00	26.07	Vertical			
4804.00	57.00	-9.60	47.40	74.00	26.60	Horizontal			
		Dete	ctor: Average Va	alue					
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4804.00	53.33	-9.60	43.73	54.00	10.27	Vertical			
4804.00	49.98	-9.60	40.38	54.00	13.62	Horizontal			

		Test ch	annel: Middle ch	nannel		
		De	tector: Peak Valu	ue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4884.00	57.81	-9.04	48.77	74.00	25.23	Vertical
4884.00	50.21	-9.04	41.17	74.00	32.83	Horizontal
		Dete	ctor: Average Va	alue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4884.00	53.07	-9.04	44.03	54.00	9.97	Vertical
4884.00	49.49	-9.04	40.45	54.00	13.55	Horizontal

	Test channel: Highest channel								
	Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4960.00	57.49	-8.45	49.04	74.00	24.96	Vertical			
4960.00	57.04	-8.45	48.59	74.00	25.41	Horizontal			
		Dete	ctor: Average Va	alue					
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4960.00	52.94	-8.45	44.49	54.00	9.51	Vertical			
4960.00	49.86	-8.45	41.41	54.00	12.59	Horizontal			
	•	•	•		•	•			

Remark:

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^{1.} Final Level =Receiver Read level + Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.