

## JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2100522

# FCC REPORT

Applicant: SKY PHONE LLC

Address of Applicant: 1348 Washington Av. Suite 350, Miami Beach, FL 33139

#### **Equipment Under Test (EUT)**

Product Name: TABLET

Model No.: Elite T8

Trade mark: SKY DEVICES

FCC ID: 2ABOSSKYELIT8

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

Date of sample receipt: 09 Apr., 2021

**Date of Test:** 10 Apr., to 25 Apr., 2021

Date of report issued: 26 Apr., 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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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.





## 2 Version

Version No.	Date	Description
00	26 Apr., 2021	Original

Tested by:	Carey Chen	Date:	26 Apr., 2021	
	Test Engineer			

Reviewed by: Date: 26 Apr., 2021

**Project Engineer** 

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## 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	45.047.(4)	Appendix A - BLE	Pass
Radiated Band Edge	15.247 (d)	See Section 6.6.2	Pass
Conducted Spurious Emission	45.005.8.45.000	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.
- 3. 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:	SKY PHONE LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL 33139
Manufacturer:	SKY PHONE LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL 33139

## 5.2 General Description of E.U.T.

Product Name:	TABLET
Model No.:	Elite T8
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Internal Antenna
Antenna gain:	1.65 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V, 3500mAh
AC adapter:	Model: Elite T8
	Input: AC100-240V, 50/60Hz, 0.2A
	Output: DC 5.0V, 2.0A
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 17025:2005 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@ccis-cb.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	06-18-2020	06-17-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-18-2020	06-17-2021
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

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	06-18-2020	06-17-2021	
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	
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(b)

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 1.65 dBi.

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## 6.2 Conducted Emission

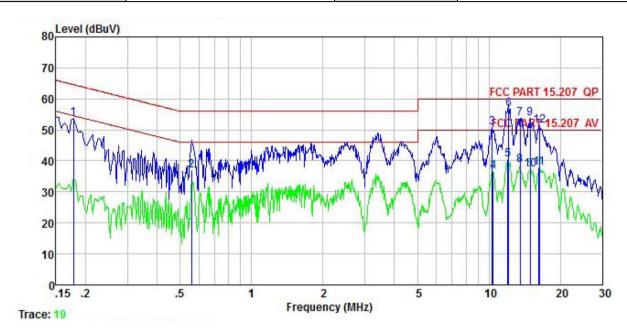
Test Requirement:	FCC Part 15 C Section 15.207	7							
Test Frequency Range:	150 kHz to 30 MHz	150 kHz to 30 MHz							
Class / Severity:	Class B	Class B							
Receiver setup:	RBW=9kHz, VBW=30kHz								
Limit:	·	Limit (	dBuV)						
	Frequency range (MHz)	Quasi-peak Average							
	0.15-0.5	66 to 56*	56 to 46*						
	0.5-5	56	46						
	5-30	60	50						
	* Decreases with the logarithn	n of the frequency.							
Test procedure:	<ol> <li>The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>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).</li> <li>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 C63.10(latest version) on conducted measurement.</li> </ol>								
Test setup:	Reference	Plane							
	AUX Equipment	EMI Receiver	– AC power						
	LISN: Line Impedence Stabilization Ne Test table height=0.8m	WYOA							
Test Instruments:	Refer to section 5.9 for details	}							
Test mode:	Refer to section 5.3 for details	<b>i</b>							
Test results:	Passed								

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#### **Measurement Data:**

Product name:	TABLET	Product model:	Elite T8
Test by:	Carey	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%



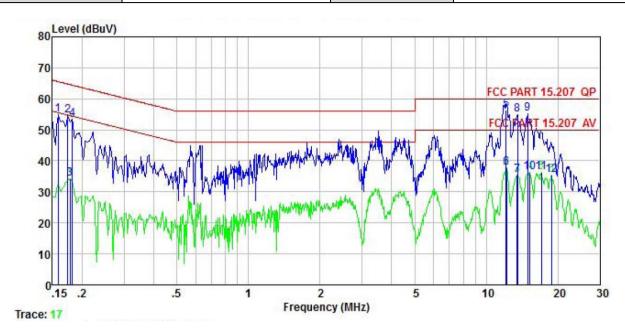
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	dBu∜	<u>dB</u>	<u>d</u> B	dB	dBu₹	dBu∜	dB	
1	0.178	43.51	10.20	-0.12	0.01	53.60	64.59	-10.99	QP
2	0.558	27.14	10.20	-0.37	0.02	36.99	46.00	-9.01	Average
3	10.342	38.23	10.41	2.08	0.12	50.84	60.00	-9.16	QP
4	10.397	23.96	10.41	2.08	0.12	36.57	50.00	-13.43	Average
5	11.996	27.10	10.44	2.68	0.10	40.32	50.00	-9.68	Average
6	12.124	43.34	10.45	2.71	0.10	56.60	60.00	-3.40	QP
7	13.551	39.92	10.47	3.18	0.12	53.69	60.00	-6.31	QP
1 2 3 4 5 6 7 8 9	13.551	24.98	10.47	3.18	0.12	38.75	50.00	-11.25	Average
9	14.907	39.45	10.50	3.58	0.14	53.67	60.00	-6.33	QP
10	14.907	22.93	10.50	3.58	0.14	37.15	50.00	-12.85	Average
11	16,226	24.21	10.53	2.91	0.16	37.81			Average
12	16.312	37.88	10.53	2.83	0.16	51.40	60.00	-8.60	

#### 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	Product model:	Elite T8
Test by:	Carey	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%



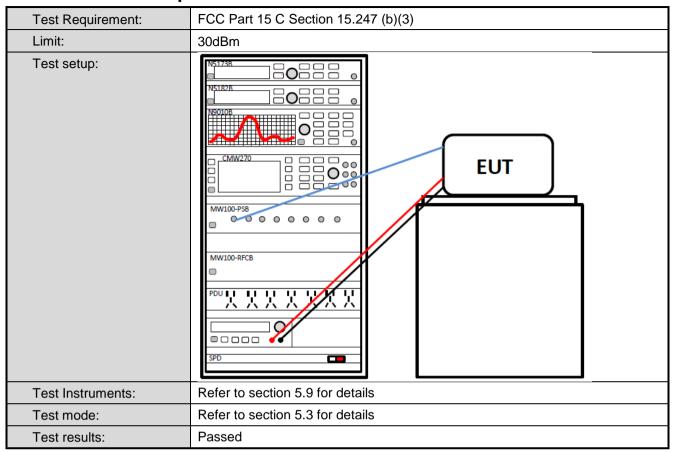
	Freq	Read Level		Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>dB</u>	−−−dB	dB	dBu₹	dBu∀	<u>dB</u>	
1	0.158 0.174	44.68 44.40	10.20 10.20	0.01 0.00	0.01 0.01	54.90 54.61		-10.66 -10.16	
2	0.178	23.91	10.20	0.00	0.01	34.12	54.59	-20.47	Average
4 5 6	0.182 12.124	43.10 43.68	10.20 10.55	0.00 2.19	0.01 0.10	53.31 56.52	60.00	-11.11 -3.48	QP
7	12.188 13.479	24.77 22.23	10.55 10.57	2.23	0.10 0.11	37.65 35.55			Average Average
8 9	13.551 14.907	41.50	10.57 10.60	2.67 3.09	0.12 0.14	54.86 55.28	60.00 60.00	-5.14	QP
10 11	15.226 17.018	22.38 23.47	10.61 10.73	3. 04 1. 88	0.14	36.17 36.24	50.00	-13.83	Äverage Average
12	18.820	23.68	10.13	0.81	0.15	35.48			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.



## **6.3 Conducted Output Power**

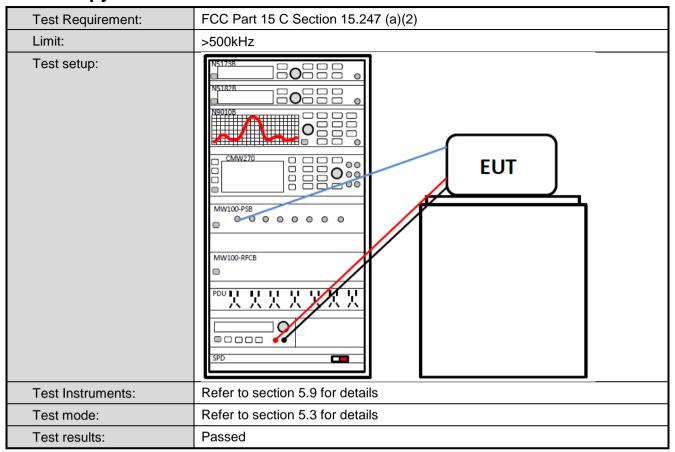


Measurement Data: Refer to Appendix A - BLE

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## 6.4 Occupy Bandwidth

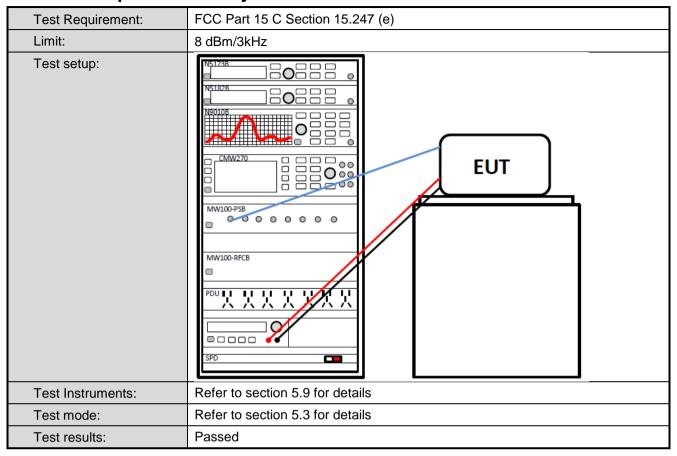


Measurement Data: Refer to Appendix A - BLE

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## 6.5 Power Spectral Density



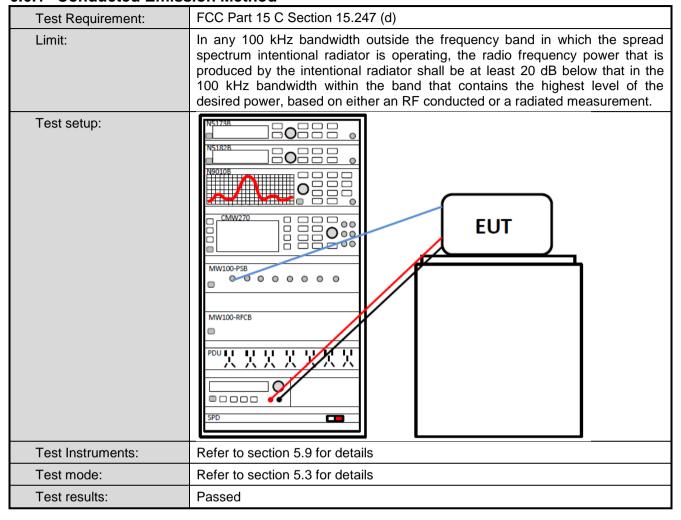
Measurement Data: Refer to Appendix A - BLE

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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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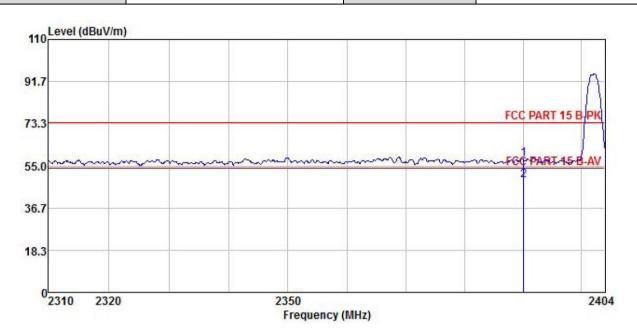


#### **Radiated Emission Method** 6.6.2

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:	<ol> <li>The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>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.</li> <li>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.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>If the emission level of the EUT in peak mode was 10 dB 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 10 dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.</li> </ol>								
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	Product Model:	Elite T8
Test By:	Carey	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor					Over Limit	Remark
	MHz	dBu∀	$\overline{dB}/\overline{m}$	₫B	dB	$\overline{dBuV/m}$	$\overline{dBuV/m}$	dB	
1 2	2390.000 2390.000								

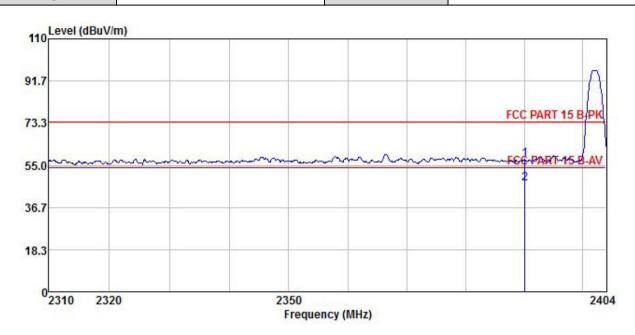
#### Remark:

- 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.

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Product Name:	TABLET	Product Model:	Elite T8
Test By:	Carey	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor						
	MHz	dBu₹	dB/m	dB	dB	$\overline{dBuV/m}$	dBu√/m	<u>d</u> B	
1 2	2390.000 2390.000								

#### Remark:

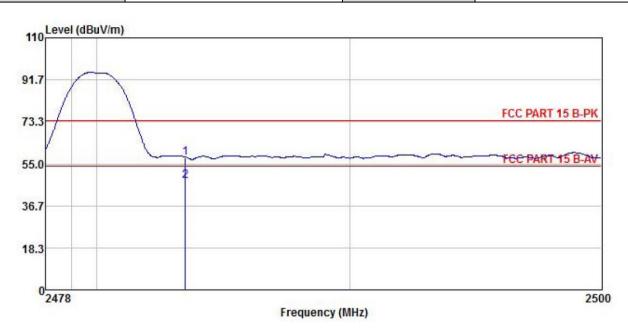
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Project No.: JYTSZE2104032



Product Name:	TABLET	Product Model:	Elite T8
Test By:	Carey	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



	Freq		Antenna Factor						Remark
	MHz	dBu∜	dB/m	<u>d</u> B	dB	dBuV/m	dBuV/m	B	
1 2	2483.500 2483.500								

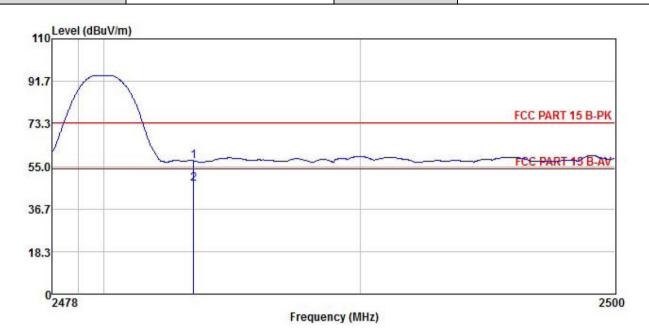
#### Remark:

- 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.

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Product Name:	TABLET	Product Model:	Elite T8
Test By:	Carey	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor						
	MHz	dBu∜	dB/m	dB	dB	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>d</u> B	
1 2	2483.500 2483.500								

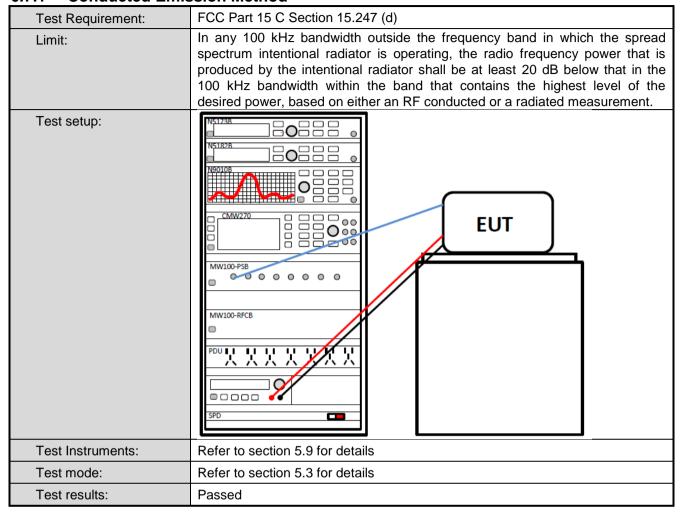
#### Remark:

- 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.



## 6.7 Spurious Emission

#### 6.7.1 Conducted Emission Method



Measurement Data: Refer to Appendix A - BLE

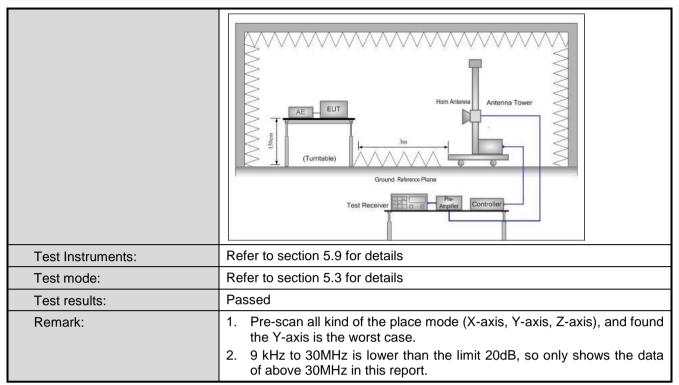
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#### 6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.205 and 15.209								
Test Frequency Range:	9kHz to 25GHz								
Test Distance:	3m								
Receiver setup:	Frequency	Detector	RBW	VBW		Remark			
. Kosomon Gottapi	30MHz-1GHz	Quasi-peak	120KHz	3001	KHz	Quasi-peak Value			
	Ab av a 4011-	Peak	1MHz	3M	Hz	Peak Value			
	Above 1GHz	RMS	1MHz	3M	Hz	Average Value			
Limit:	Frequency	/ L	imit (dBuV/m @	3m)		Remark			
	30MHz-88M	Hz	40.0		C	Quasi-peak Value			
	88MHz-216N	/IHz	43.5		C	Quasi-peak Value			
	216MHz-960I	MHz	46.0		C	Quasi-peak Value			
	960MHz-1G	Hz	54.0		C	Quasi-peak Value			
	Above 1GH	lz	54.0			Average Value			
			74.0	_	<u> </u>	Peak Value table 0.8m(below			
	highest rad  2. The EUT antenna, w tower.  3. The antenn the ground Both horize make the n  4. For each s case and t meters and to find the n  5. The test-re Specified E  6. If the emiss the limit sp of the EUT have 10 dE	<ul> <li>antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>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.</li> <li>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.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> </ul>							
Test setup:	Below 1GHz  Antenna Tower  Search Antenna  Tum Table  Oround Plane  Above 1GHz								







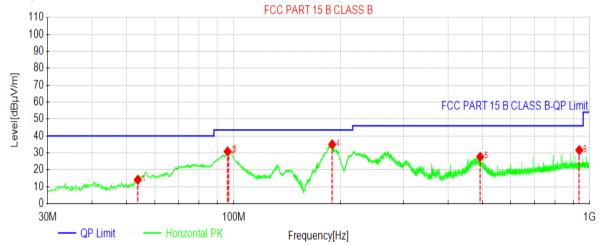
## Measurement Data (worst case): Below 1GHz:

## **Test Report**

Project Information										
Customer:		EUT:	TABLET							
Model:	Elite T8	SN:								
Mode:	BLE	Voltage:	AC 120V/60Hz							
Environment:	Temp: 23.3°C; Humi:53%	Engineer:	HZK							
Remark:										
Test Standard:										

Start of Test: 2021-04-16 17:39:23

#### **Test Graph**



#### QP Detector

Suspe	Suspected Data List												
NO.	Freq. [MHz]	Level [dBµV/m]	Factor Limit  [dB] [dBµV/m]		Margin [dB]	Polarity							
1	53.7674	14.13	-16.98	40.00	25.87	Horizontal							
2	96.1606	30.82	-18.93	43.50	12.68	Horizontal							
3	96.8397	31.41	-18.80	43.50	12.09	Horizontal							
4	189.192	34.97	-17.67	43.50	8.53	Horizontal							
5	492.930	27.67	-9.69	46.00	18.33	Horizontal							
6	936.070	31.61	-3.75	46.00	14.39	Horizontal							

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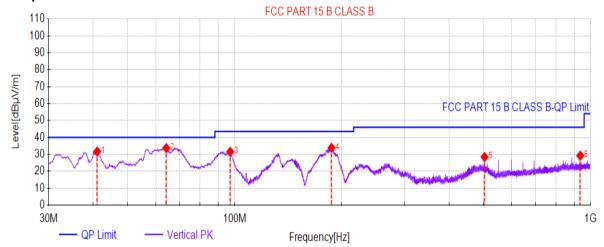


**Test Report** 

Project Information										
Customer:		EUT:	TABLET							
Model:	Elite T8	SN:								
Mode:	BLE	Voltage:	AC 120V/60Hz							
Environment:	Temp: 23.3°C; Humi:53%	Engineer:	HZK							
Remark:										
Test Standard:										

Start of Test: 2021-04-16 17:40:37

#### **Test Graph**



#### QP Detector

Suspe	Suspected Data List												
NO.	Freq. [MHz]	Level [dBµV/m]	Factor Limit [dB] [dBµV/m]		Margin [dB]	Polarity							
1	41.0591	31.63	-16.93	40.00	8.37	Vertical							
2	64.2444	33.69	-17.70	40.00	6.31	Vertical							
3	97.1307	31.50	-18.75	43.50	12.00	Vertical							
4	187.155	33.85	-17.90	43.50	9.65	Vertical							
5	503.989	28.44	-9.49	46.00	17.56	Vertical							
6	936.070	29.22	-3.75	46.00	16.78	Vertical							

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#### **Above 1GHz**

	Test channel: Lowest channel											
Detector: Peak Value												
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4804.00	48.15	30.78	6.80	2.44	41.81	46.36	74.00	-27.64	Vertical			
4804.00	40.21	30.78	6.80	2.44	41.81	38.42	74.00	-35.58	Horizontal			
				Detector:	Average Va	alue						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4804.00	47.89	30.78	6.80	2.44	41.81	46.10	54.00	-7.90	Vertical			
4804.00	43.07	30.78	6.80	2.44	41.81	41.28	54.00	-12.72	Horizontal			

Test channel: Middle channel												
Detector: Peak Value												
Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
48.63	30.96	6.86	2.47	41.84	47.08	74.00	-26.92	Vertical				
40.62	30.96	6.86	2.47	41.84	39.07	74.00	-34.93	Horizontal				
			Detector:	Average Va	alue							
Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
48.07	30.96	6.86	2.47	41.84	46.52	54.00	-7.48	Vertical				
43.48	30.96	6.86	2.47	41.84	41.93	54.00	-12.07	Horizontal				
	Level (dBuV) 48.63 40.62 Read Level (dBuV) 48.07	Level (dB/m) 48.63 30.96 40.62 30.96  Read Antenna Factor (dBuV) (dB/m) 48.07 30.96	Read Level (dBuV)         Antenna (dB/m)         Cable Loss (dB)           48.63         30.96         6.86           40.62         30.96         6.86           Read Level (dBuV)         Antenna Loss (dB/m)         Cable Loss (dB)           48.07         30.96         6.86	Detector           Read Level (dBuV)         Antenna (dB/m)         Cable (dB)         Aux Factor (dB)           48.63         30.96         6.86         2.47           40.62         30.96         6.86         2.47           Detector:           Read Level Factor (dBuV)         Cable Loss Factor (dB)         Factor (dB)           (dB/m)         (dB)         (dB)           48.07         30.96         6.86         2.47	Detector: Peak Value   Read	Detector: Peak Value           Read Level (dBuV)         Antenna (dB/m)         Cable Loss (dB)         Aux Factor (dB)         Preamp Factor (dB)         Level (dBuV/m)           48.63         30.96         6.86         2.47         41.84         47.08           40.62         30.96         6.86         2.47         41.84         39.07           Detector: Average Value           Read Level (dBuV)         Antenna Loss (AB)         Cable Factor (AB)         Aux Factor Factor (AB)         Level (AB)         Lev	Detector: Peak Value	Detector: Peak Value				

Test channel: Highest channel												
Detector: Peak Value												
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4960.00	48.34	31.11	6.91	2.49	41.87	46.98	74.00	-27.02	Vertical			
4960.00	40.15	31.11	6.91	2.49	41.87	38.79	74.00	-35.21	Horizontal			
				Detector:	Average Va	alue						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4960.00	47.88	31.11	6.91	2.49	41.87	46.52	54.00	-7.48	Vertical			
4960.00	43.49	31.11	6.91	2.49	41.87	42.13	54.00	-11.87	Horizontal			

#### Remark:

<sup>1.</sup> Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor - Preamplifier Factor.

<sup>2.</sup> The emission levels of other frequencies are lower than the limit 20dB and not show in test report.