

# RF TEST REPORT

**Product Name: Tablet** 

Model Name: Vortex BTAB10

FCC ID: 2ADLJ-BTAB10

Issued For : Xwireless LLC

11565 Old Georgetown Road, Rockville, MD, USA

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan

District, Shenzhen, Guangdong, China

Report Number: LGT23H049RF02

Sample Received Date: Aug. 18, 2023

Date of Test: Aug. 18, 2023 – Sep. 18, 2023

Date of Issue: Sep. 18, 2023

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## **TEST REPORT CERTIFICATION**

Applicant: Xwireless LLC

Address: 11565 0ld Georgetown Road, Rockville, MD, USA

Manufacturer: Xwireless LLC

Address: 11565 0ld Georgetown Road, Rockville, MD, USA

Product Name: Tablet

Trademark: N/A

Model Name: Vortex BTAB10

Sample Status: Normal

APPLICABLE STANDARDS		
STANDARD	TEST RESULTS	
FCC Part 15.247, Subpart C ANSI C63.10-2013	PASS	

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Engineer

Approved by:

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**Technical Director** 

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## **Revision History**

Rev.	Issue Date	Contents
00	Sep. 18, 2023	Initial Issue

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## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247, Subpart C				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.247 (a)(2)	6dB Bandwidth	PASS		
15.247 (b)(3)	Output Power	PASS		
15.209	Radiated Spurious Emission	PASS		
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS		
15.247 (e)	Power Spectral Density	PASS		
15.205	Restricted Band Edge Emission	PASS		
Part 15.247(d)/ Part 15.209(a)	Band Edge Emission	PASS		
15.203	Antenna Requirement	PASS		

## NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2013.

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### 1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.	
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China	
	A2LA Certificate No.: 6727.01	
Accreditation Certificate	FCC Registration No.: 746540	
	CAB ID: CN0136	

### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k=2}$ , providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	±0.68dB
2	Unwanted Emissions, conducted	±2.988dB
3	All emissions, radiated 9K-30MHz	±2.84dB
4	All emissions, radiated 30M-1GHz	±4.39dB
5	All emissions, radiated 1G-6GHz	±5.10dB
6	All emissions, radiated>6G	±5.48dB
7	Conducted Emission (9KHz-150KHz)	±2.79dB
8	Conducted Emission (150KHz-30MHz)	±2.80dB

Note: The measurement uncertainty is not included in the test result.

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#### 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Tablet		
Trademark:	N/A		
Model Name:	Vortex BTAB10		
Series Model:	N/A		
Model Difference:	N/A		
		2400 0400 1114	
	Operation Frequency:	2402~2480 MHz	
	Modulation Type:	GFSK	
	Radio Technology:	BLE	
Product Description:	Bluetooth Configuration:	BLE (1M PHY)	
	Number Of Channel:	40	
	Antenna Designation:	FPC	
	Antenna Gain (dBi)	0.07	
Channel List:	Please refer to the Note 3.		
A 1 4	Input: 100-240V, 50/60Hz 0.3A		
Adapter:	Output: 5V, 2.0A		
Ratton:	Capacity: 5000mAh, 18.5Wh		
Battery:	Rated Voltage: 3.7V		
Hardware Version:	P612K_MB_V1		
Software Version:	N/A		
Connecting I/O Port(s):	Please refer to the Note 1.		

#### Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
- 2. The antenna information refers to the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.

3.

	Channel List						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	10	2422	20	2442	30	2462
01	2404	11	2424	21	2444	31	2464
02	2406	12	2426	22	2446	32	2466
03	2408	13	2428	23	2448	33	2468
04	2410	14	2430	24	2450	34	2470
05	2412	15	2432	25	2452	35	2472
06	2414	16	2434	26	2454	36	2474
07	2416	17	2436	27	2456	37	2476
08	2418	18	2438	28	2458	38	2478
09	2420	19	2440	29	2460	39	2480

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#### 2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Data/Modulation
Mode 1	TX CH00(2402MHz)	1 MHz/GFSK
Mode 2	TX CH19(2440MHz)	1 MHz/GFSK
Mode 3	TX CH39(2480MHz)	1 MHz/GFSK

#### Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
- (2) We have be tested for all avaiable U.S. voltage and frequency (For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report.
- (3) The battery is fully-charged during the radited and RF conducted test.

#### For AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 4: Keeping BLE TX

#### 2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test software Version	Test program: BLE		
Engineering Mode	Mode Or Modulation type	Power setting	
Engineering Mode	1M	Default	

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### 2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Accessories Equipment

Moccosonics Equip	Rocessones Equipment							
Description	Manufacturer	Model	S/N	Rating				
Adapter	N/A	N/A	N/A	Input: 100-240V ~ 50/60Hz 0.3A Output: 5V, 2A				
USB-A to USB-C Cable	N/A	N/A	N/A	1m				

**Auxiliary Equipment** 

Description	Manufacturer	Model	S/N	Rating

#### Note:

- (1) For detachable type I/O cable should be specified the length in cm in <sup>®</sup> Length <sup>®</sup> column.
- (2) "YES" is means "with core"; "NO" is means "without core".

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## 2.5 EQUIPMENTS LIST

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2023.04.13	2024.04.12
LISN	COM-POWER	LI-115	02032	2023.04.07	2024.04.06
LISN	SCHWARZBECK	NNLK 8121	00847	2023.04.07	2024.04.06
LISN	SCHWARZBECK	NNLK 8122	00160	2023.04.07	2024.04.06
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2023.04.07	2024.04.06
Temperature & Humidity	KTJ	TA218B	N.A	2023.04.24	2024.04.23
Testing Software	EMC-I_V1.4.0.3_SKET				

Radiated Test equipment						
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until	
EMI Test Receiver	R&S	ESU8	100372	2023.04.13	2024.04.12	
Active loop Antenna	ETS	6502	00049544	2022.06.02	2025.06.01	
Spectrum Analyzer	Keysight	N9010B	MY60242508	2023.04.10	2024.04.09	
Bilog Antenna(30M-1G)	SCHWARZBECK	VULB 9168	2705	2022.06.05	2025.06.04	
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2022.06.02	2025.06.01	
Horn Antenna(18-40G)	A-INFO	LB-180400-K F	J211060273	2022.06.08	2025.06.07	
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2023.04.07	2024.04.06	
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2023.04.07	2024.04.06	
Pre-amplifier(18-40G)	com-mw	LNPA_18-40- 01	18050003	2023.04.07	2024.04.06	
Wireless						
Communications Test	R&S	CMW 500	137737	2023.04.13	2024.04.12	
Set						
Temperature & Humidity	KTJ	TA218B	N.A	2023.04.24	2024.04.23	
Testing Software		EMC-I_	V1.4.0.3_SKET			

Conducted Test equipment							
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until		
Signal Analyzer	Keysight	N9010B	MY60242508	2023.04.10	2024.04.09		
Wireless Communications Test Set	R&S	CMW 500 137737		2023.04.13	2024.04.12		
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2023.04.07	2024.04.06		
Power Sensor	MW	MW100-RFC B	MW220324LG -33	2023.04.13	2024.04.12		
Temperature & Humidity	KTJ	TA218B	N.A	2023.04.24	2024.04.23		
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2023.05.10	2024.05.09		
Attenuator	eastsheep	90db	N.A	2023.04.10	2024.04.09		
Testing Software		MTS820	0_ V2.0.0.0_MW				

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#### 3. EMC EMISSION TEST

### 3.1 CONDUCTED EMISSION MEASUREMENT

#### 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

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.

EDEOLIENCY (MH-)	Conducted Emission limit (dBuV)			
FREQUENCY (MHz)	Quasi-peak	Average		
0.15 -0.5	66 - 56 *	56 - 46 *		
0.50 -5.0	56.00	46.00		
5.0 -30.0	60.00	50.00		

#### Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

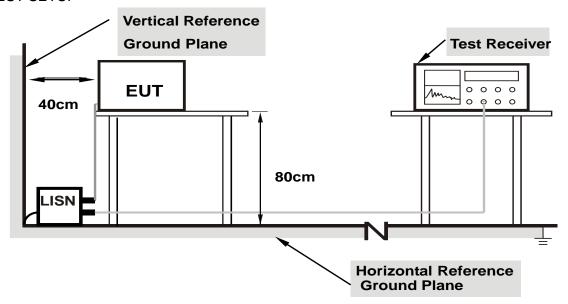
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#### 3.2 TEST PROCEDURE

- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### 3.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

#### 3.4 EUT OPERATING CONDITIONS

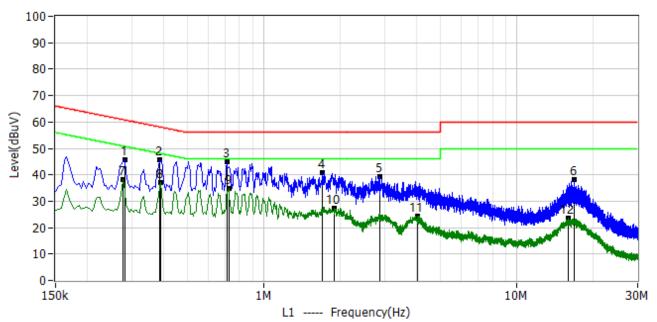
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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## 3.5 TEST RESULTS

Project: LGT23H049	Test Engineer: LiuH
EUT: Tablet	Temperature: 28.1°C
M/N: VORTEX BTAB10	Humidity: 43%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-09-05
Test Mode: TX BLE 1M 2402	
Note:	

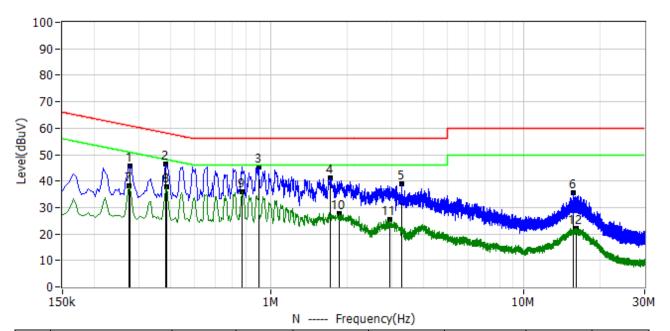


No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
140.	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	i Olai
1*	0.282	35.17	10.59	45.76	60.76	-15.00	QP	L1
2*	0.386	35.04	10.59	45.63	58.15	-12.52	QP	L1
3*	0.714	34.53	10.58	45.11	56.00	-10.89	QP	L1
4*	1.702	30.22	10.70	40.92	56.00	-15.08	QP	L1
5*	2.874	28.60	10.74	39.34	56.00	-16.66	QP	L1
6*	16.774	27.03	11.17	38.20	60.00	-21.80	QP	L1
7*	0.278	27.65	10.59	38.24	50.88	-12.63	AV	L1
8*	0.390	26.46	10.58	37.04	48.06	-11.02	AV	L1
9*	0.726	24.33	10.58	34.91	46.00	-11.09	AV	L1
10*	1.902	16.74	10.73	27.47	46.00	-18.53	AV	L1
11*	4.058	13.67	10.72	24.39	46.00	-21.61	AV	L1
12*	15.934	12.41	11.13	23.54	50.00	-26.46	AV	L1

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Project: LGT23H049	Test Engineer: LiuH
EUT: Tablet	Temperature: 28.1°C
M/N: VORTEX BTAB10	Humidity: 43%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-09-05
Test Mode: TX BLE 1M 2402	
Note:	



No.	Frequency	Reading	Factor	Level	Limit	Margin	Dotootor	Polar
INO.	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Polai
1*	0.278	35.29	10.59	45.88	60.88	-15.00	QP	N
2*	0.382	35.96	10.58	46.54	58.24	-11.69	QP	N
3*	0.894	34.73	10.58	45.31	56.00	-10.69	QP	N
4*	1.722	30.50	10.70	41.20	56.00	-14.80	QP	N
5*	3.278	28.15	10.73	38.88	56.00	-17.12	QP	N
6*	15.626	24.34	11.17	35.51	60.00	-24.49	QP	N
7*	0.274	27.65	10.59	38.24	51.00	-12.75	AV	N
8*	0.386	27.12	10.58	37.70	48.15	-10.45	AV	N
9*	0.766	25.37	10.58	35.95	46.00	-10.05	AV	N
10*	1.866	16.91	10.73	27.64	46.00	-18.36	AV	N
11*	2.954	14.63	10.73	25.36	46.00	-20.64	AV	N
12*	16.070	11.03	11.19	22.22	50.00	-27.78	AV	N



#### 4. RADIATED EMISSION MEASUREMENT

#### 4.1 Radiated Emission Limits

In case the emission fall within the Restricted band specified on Part15.205 (a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

## LIMITS OF RADIATED EMISSION MEASUREMENT (1GHz-25 GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)		
	PEAK	AVERAGE	
Above 1000	74	54	

### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

### LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

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## For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AV
Start Frequency	9 KHz/150KHz (Peak/QP/AV)
Stop Frequency	150KHz/30MHz (Peak/QP/AV)
RB / VB (emission in restricted band)	200Hz (From 9kHz to 0.15MHz)/
	9KHz (From 0.15MHz to 30MHz);
	200Hz (From 9kHz to 0.15MHz)/
	9KHz (From 0.15MHz to 30MHz)

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz (Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted band)	120 KHz / 300 KHz

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz (Peak/AV)
Stop Frequency	10th carrier hamonic (Peak/AV)
DB (\/B (amississ is restricted band)	1 MHz / 3 MHz(Peak)
RB / VB (emission in restricted band)	1 MHz/1/T MHz(AVG)

## For Restricted band

Spectrum Parameter	Setting		
Detector Peak			
Start/Stop Frequency	Lower Band Edge: 2310 to 2410 MHz		
	Upper Band Edge: 2475 to 2500 MHz		
DD / V/D	1 MHz / 3 MHz(Peak)		
RB / VB	1 MHz/1/T MHz(AVG)		

Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

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#### **4.2 TEST PROCEDURE**

- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

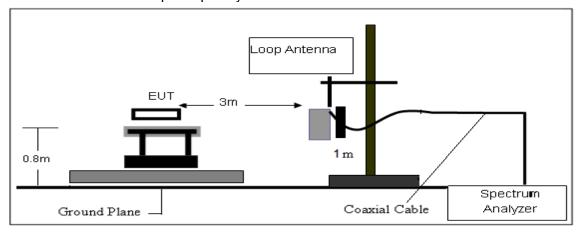
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

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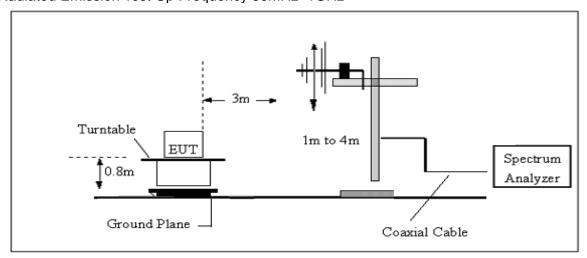


### 4.3 TEST SETUP

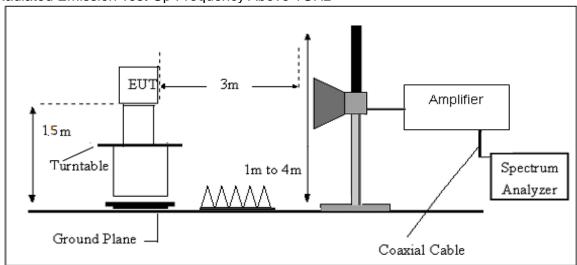
### (A) Radiated Emission Test-Up Frequency Below 30MHz



## (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



## (C) Radiated Emission Test-Up Frequency Above 1GHz



## 4.4 EUT OPERATING CONDITIONS

Please refer to section 3.4 of this report.

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### 4.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG

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## 4.6 TEST RESULTS

## Results of Radiated Emissions (9 KHz~30MHz)

No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Remark
1*	-	-	-	-	-	-	-	See Note

#### Note:

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and the permissible value has no need to be reported.

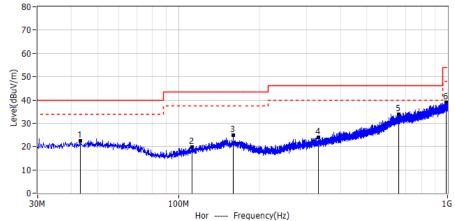
Distance extrapolation factor = 40 log (specific distance / test distance) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor.

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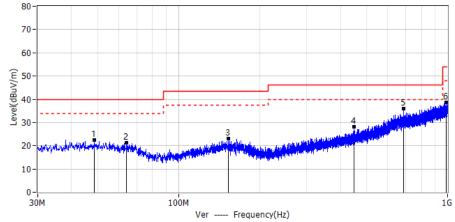


## Results of Radiated Emissions (30MHz~1000MHz)

Project: LGT23H049	Test Engineer: Xiangdong Ma
EUT: Tablet	Temperature: 27.6°C
M/N: VORTEX BTAB10	Humidity: 44%RH
Test Voltage: Battery	Test Data: 2023-08-23
Test Mode: TX BLE 1M 2402	·
Note: Worst Case	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	43.095MHz	3.05	19.28	22.33	40.00	-17.67	PK	Hor
2*	112.329MHz	2.67	16.98	19.65	43.50	-23.85	PK	Hor
3*	159.859MHz	4.92	19.84	24.76	43.50	-18.74	PK	Hor
4*	331.306MHz	3.14	20.83	23.97	46.00	-22.03	PK	Hor
5*	657.833MHz	4.63	29.33	33.96	46.00	-12.04	PK	Hor
6*	986.541MHz	4.37	34.51	38.88	54.00	-15.12	PK	Hor



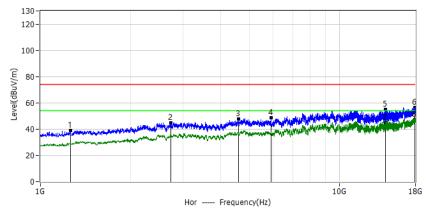
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
	,	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1*	48.673MHz	3.05	19.32	22.37	40.00	-17.63	PK	Ver
2*	64.193MHz	2.83	18.38	21.21	40.00	-18.79	PK	Ver
3*	153.190MHz	3.12	19.94	23.06	43.50	-20.44	PK	Ver
4*	449.404MHz	4.47	23.78	28.25	46.00	-17.75	PK	Ver
5*	687.539MHz	6.33	29.69	36.02	46.00	-9.98	PK	Ver
6*	987.148MHz	4.09	34.51	38.60	54.00	-15.40	PK	Ver

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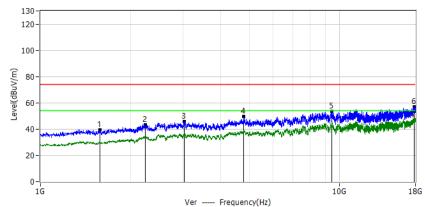


## Results of Radiated Emissions (Above 1000MHz)

Project: LGT23H049	Test Engineer: Xiangdong Ma
EUT: Tablet	Temperature: 28°C
M/N: VORTEX BTAB10	Humidity: 44%RH
Test Voltage: Battery	Test Data: 2023-08-28
Test Mode: BLE 1M 2402	
Note:Worst Case	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1.2614GHz	61.51	-22.48	39.03	74.00	-34.97	PK	Hor
2*	2.7276GHz	54.79	-9.78	45.01	74.00	-28.99	PK	Hor
3*	4.5934GHz	53.66	-5.83	47.83	74.00	-26.17	PK	Hor
4*	5.9194GHz	56.12	-7.57	48.55	74.00	-25.45	PK	Hor
5*	14.2557GHz	49.25	5.89	55.14	74.00	-18.86	PK	Hor
6*	17.9511GHz	47.93	8.49	56.42	74.00	-17.58	PK	Hor
7*	14.2557GHz	38.81	5.89	44.70	54.00	-9.30	AV	Hor
8*	17.9511GHz	38.71	8.49	47.20	54.00	-6.80	AV	Hor

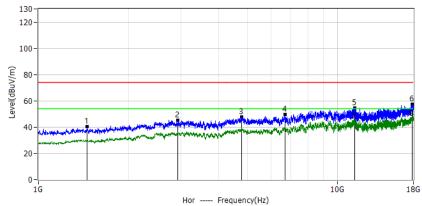


				voi moquency	()			
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
		dBuV	dB/m d	dBuV/m	m dBuV/m	dB	20100101	· oiai
1*	1.5844GHz	59.87	-20.28	39.59	74.00	-34.41	PK	Ver
2*	2.2389GHz	57.29	-13.72	43.57	74.00	-30.43	PK	Ver
3*	3.0209GHz	54.33	-8.35	45.98	74.00	-28.02	PK	Ver
4*	4.7889GHz	55.70	-5.98	49.72	74.00	-24.28	PK	Ver
5*	9.4639GHz	54.73	-1.17	53.56	74.00	-20.44	PK	Ver
6*	17.8279GHz	48.80	8.40	57.20	74.00	-16.80	PK	Ver
7*	17.8279GHz	38.50	8.40	46.90	54.00	-7.10	AV	Ver

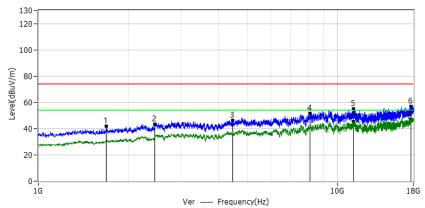
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Project: LGT23H049	Test Engineer: Xiangdong Ma
EUT: Tablet	Temperature: 28°C
M/N: VORTEX BTAB10	Humidity: 44%RH
Test Voltage: Battery	Test Data: 2023-08-28
Test Mode: BLE 1M 2440	
Note:Worst Case	



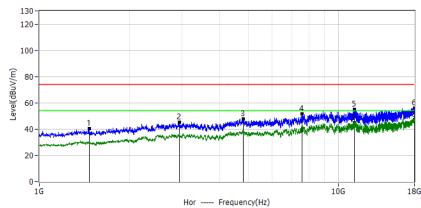
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1.4547GHz	61.59	-21.09	40.50	74.00	-33.50	PK	Hor
2*	2.9231GHz	54.06	-8.75	45.31	74.00	-28.69	PK	Hor
3*	4.7931GHz	53.60	-5.98	47.62	74.00	-26.38	PK	Hor
4*	6.6865GHz	55.89	-6.24	49.65	74.00	-24.35	PK	Hor
5*	11.4677GHz	52.75	1.91	54.66	74.00	-19.34	PK	Hor
6*	17.8321GHz	49.16	8.40	57.56	74.00	-16.44	PK	Hor
7*	11.4677GHz	42.29	1.91	44.20	54.00	-9.80	AV	Hor
8*	17.8321GHz	37.90	8.40	46.30	54.00	-7.70	AV	Hor



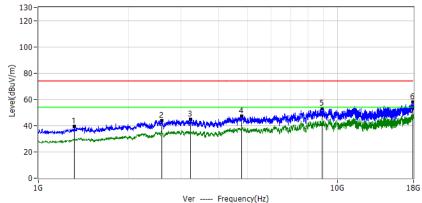
1*     1.6842GHz     61.09     -19.37     41.72     74.00     -32.28     PK     Ver       2*     2.4535GHz     54.65     -11.47     43.18     74.00     -30.82     PK     Ver       3*     4.4765GHz     52.07     -5.85     46.22     74.00     -27.78     PK     Ver       4*     8.1230GHz     55.44     -3.65     51.79     74.00     -22.21     PK     Ver       5*     11.3445GHz     53.25     1.83     55.08     74.00     -18.92     PK     Ver       6*     17.6196GHz     48.91     8.25     57.16     74.00     -16.84     PK     Ver									
2* 2.4535GHz 54.65 -11.47 43.18 74.00 -30.82 PK Ver   3* 4.4765GHz 52.07 -5.85 46.22 74.00 -27.78 PK Ver   4* 8.1230GHz 55.44 -3.65 51.79 74.00 -22.21 PK Ver   5* 11.3445GHz 53.25 1.83 55.08 74.00 -18.92 PK Ver   6* 17.6196GHz 48.91 8.25 57.16 74.00 -16.84 PK Ver	No.	Frequency						Detector	Polar
3*     4.4765GHz     52.07     -5.85     46.22     74.00     -27.78     PK     Ver       4*     8.1230GHz     55.44     -3.65     51.79     74.00     -22.21     PK     Ver       5*     11.3445GHz     53.25     1.83     55.08     74.00     -18.92     PK     Ver       6*     17.6196GHz     48.91     8.25     57.16     74.00     -16.84     PK     Ver	1*	1.6842GHz	61.09	-19.37	41.72	74.00	-32.28	PK	Ver
4* 8.1230GHz 55.44 -3.65 51.79 74.00 -22.21 PK Ver   5* 11.3445GHz 53.25 1.83 55.08 74.00 -18.92 PK Ver   6* 17.6196GHz 48.91 8.25 57.16 74.00 -16.84 PK Ver	2*	2.4535GHz	54.65	-11.47	43.18	74.00	-30.82	PK	Ver
5*     11.3445GHz     53.25     1.83     55.08     74.00     -18.92     PK     Ver       6*     17.6196GHz     48.91     8.25     57.16     74.00     -16.84     PK     Ver	3*	4.4765GHz	52.07	-5.85	46.22	74.00	-27.78	PK	Ver
6* 17.6196GHz 48.91 8.25 57.16 74.00 -16.84 PK Ver	4*	8.1230GHz	55.44	-3.65	51.79	74.00	-22.21	PK	Ver
	5*	11.3445GHz	53.25	1.83	55.08	74.00	-18.92	PK	Ver
7* 11.3445GHz 43.47 1.83 45.30 54.00 -8.70 AV Ver	6*	17.6196GHz	48.91	8.25	57.16	74.00	-16.84	PK	Ver
	7*	11.3445GHz	43.47	1.83	45.30	54.00	-8.70	AV	Ver
8*     17.6196GHz     38.95     8.25     47.20     54.00     -6.80     AV     Ver	8*	17.6196GHz	38.95	8.25	47.20	54.00	-6.80	AV	Ver



Project: LGT23H049	Test Engineer: Xiangdong Ma
EUT: Tablet	Temperature: 28°C
M/N: VORTEX BTAB10	Humidity: 44%RH
Test Voltage: Battery	Test Data: 2023-08-28
Test Mode: BLE 1M 2480	
Note:Worst Case	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1.4654GHz	61.52	-21.03	40.49	74.00	-33.51	PK	Hor
2*	2.9359GHz	53.94	-8.68	45.26	74.00	-28.74	PK	Hor
3*	4.8186GHz	53.67	-6.00	47.67	74.00	-26.33	PK	Hor
4*	7.5832GHz	55.79	-4.25	51.54	74.00	-22.46	PK	Hor
5*	11.3402GHz	53.07	1.83	54.90	74.00	-19.10	PK	Hor
6*	17.9575GHz	47.65	8.49	56.14	74.00	-17.86	PK	Hor
7*	11.3402GHz	42.87	1.83	44.70	54.00	-9.30	AV	Hor
8*	17.9575GHz	38.91	8.49	47.40	54.00	-6.60	AV	Hor



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1.3145GHz	61.47	-22.06	39.41	74.00	-34.59	PK	Ver
2*	2.5831GHz	54.31	-10.55	43.76	74.00	-30.24	PK	Ver
3*	3.2206GHz	53.43	-8.41	45.02	74.00	-28.98	PK	Ver
4*	4.7825GHz	53.15	-5.97	47.18	74.00	-26.82	PK	Ver
5*	8.9114GHz	54.38	-1.42	52.96	74.00	-21.04	PK	Ver
6*	17.9490GHz	49.39	8.48	57.87	74.00	-16.13	PK	Ver
7*	17.9490GHz	38.82	8.48	47.30	54.00	-6.70	AV	Ver

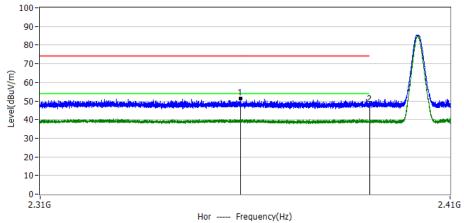
#### Remark:

In frequency ranges 18~25GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.

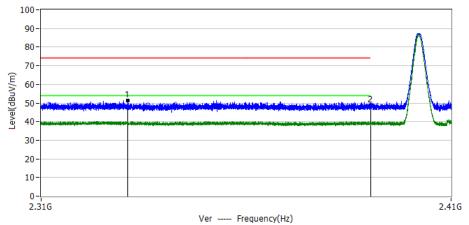


## 4.7 TEST RESULTS (BAND EDGE REQUIREMENTS)

Project: LGT23H049	Test Engineer: Xiangdong Ma
EUT: Tablet	Temperature: 28°C
M/N: VORTEX BTAB10	Humidity: 44%RH
Test Voltage: Battery	Test Data: 2023-08-28
Test Mode: BLE 1M 2402	•
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.3583GHz	17.16	34.03	51.19	74.00	-22.81	PK	Hor
2*	2.3900GHz	14.15	33.95	48.10	74.00	-25.90	PK	Hor

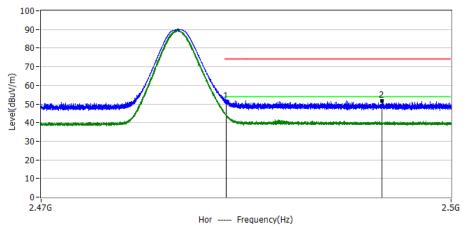


No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.3308GHz	17.29	34.09	51.38	74.00	-22.62	PK	Ver
2*	2.3900GHz	14.65	33.95	48.60	74.00	-25.40	PK	Ver

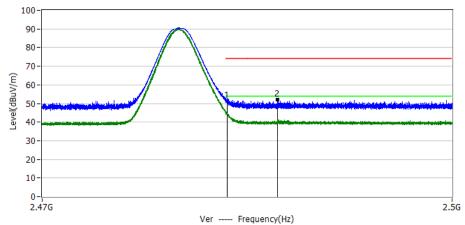
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Project: LGT23H049	Test Engineer: Xiangdong Ma
EUT: Tablet	Temperature: 28°C
M/N: VORTEX BTAB10	Humidity: 44%RH
Test Voltage: Battery	Test Data: 2023-08-28
Test Mode: BLE 1M 2480	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.4835GHz	17.27	34.13	51.40	74.00	-22.60	PK	Hor
2*	2.4949GHz	17.58	34.15	51.73	74.00	-22.27	PK	Hor



	To Troquency (TE)								
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar	
1*	2.4835GHz	17.27	34.13	51.40	74.00	-22.60	PK	Ver	
2*	2.4872GHz	17.78	34.13	51.91	74.00	-22.09	PK	Ver	



#### 5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

#### 5.1 LIMIT

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

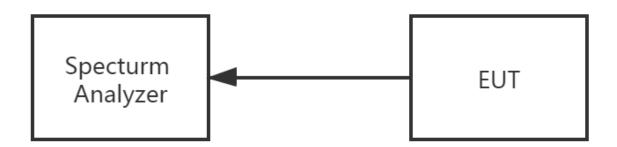
#### **5.2 TEST PROCEDURE**

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

#### For Band edge

Spectrum Parameter	Setting		
Detector	Peak		
Ctout/Cton Fraguency	Lower Band Edge: 2300 – 2407 MHz		
Start/Stop Frequency	Upper Band Edge: 2475 – 2500 MHz		
RB / VB (emission in restricted band)	100 KHz/300 KHz		
Trace-Mode:	Max hold		

#### 5.3 TEST SETUP



The EUT which is powered by the \${ POWER BY}, is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

#### **5.4 EUT OPERATION CONDITIONS**

Please refer to section 3.4 of this report.

#### 5.5 TEST RESULTS

For the measurement records, refer to the appendix I.

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#### 6. POWER SPECTRAL DENSITY TEST

#### 6.1 LIMIT

FCC Part 15.247, Subpart C							
Section	Test Item	Limit	Frequency Range (MHz)	Result			
15.247(e)	Power Spectral Density	≤8 dBm (RBW≥3KHz)	2400-2483.5	PASS			

#### **6.2 TEST PROCEDURE**

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW to:  $100 \text{ kHz} \ge \text{RBW} \ge 3 \text{ kHz}$ .
- 4. Set the VBW  $\geq$  3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

#### 6.3 TEST SETUP



#### **6.4 EUT OPERATION CONDITIONS**

Please refer to section 3.4 of this report.

#### 6.5 TEST RESULTS

For the measurement records, refer to the appendix I.

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#### 7. BANDWIDTH TEST

#### 7.1 LIMIT

FCC Part 15.247, Subpart C						
Section	Section Test Item Limit		Frequency Range (MHz)	Result		
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS		

#### 7.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW $\geq$ 3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be  $\geq$ 6 dB.

#### 7.3 TEST SETUP



#### 7.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

### 7.5 TEST RESULTS

For the measurement records, refer to the appendix I.

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#### 8. PEAK OUTPUT POWER TEST

#### **8.1 LIMIT**

FCC Part 15.247, Subpart C							
Section	tion Test Item Limit		Frequency Range (MHz)	Result			
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS			

#### 8.2 TEST PROCEDURE

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

#### RBW ≥ DTS bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- a) Set the RBW ≥ DTS bandwidth.
- b) Set VBW ≥ [3 × RBW].
- c) Set span ≥ [3 × RBW].
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

Integrated band power method:

The following procedure can be used when the maximum available RBW of the instrument is less than the

DTS bandwidth:

- a) Set the RBW = 1 MHz.
- b) Set the VBW  $\geq$  [3  $\times$  RBW].
- c) Set the span  $\geq$  [1.5 × DTS bandwidth].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

### PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

#### 8.3 TEST SETUP



#### 8.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

#### 8.5 TEST RESULTS

For the measurement records, refer to the appendix I.

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## 9. ANTENNA REQUIREMENT

#### 9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, 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.

### 9.2 EUT ANTENNA

The EUT antenna is FPC Antenna. It comply with the standard requirement.

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## **APPENDIX I:TEST RESULTS**

## Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	61.44	2.12	2.6
NVNT	BLE 1M	2440	Ant1	61.44	2.12	2.6
NVNT	BLE 1M	2480	Ant1	61.44	2.12	2.6

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## Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	2.79	30	Pass
NVNT	BLE 1M	2440	Ant1	2.78	30	Pass
NVNT	BLE 1M	2480	Ant1	1.96	30	Pass

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## -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.658	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.66	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.663	0.5	Pass

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## Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.034
NVNT	BLE 1M	2440	Ant1	1.040
NVNT	BLE 1M	2480	Ant1	1.034

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## Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-12.02	8	Pass
NVNT	BLE 1M	2440	Ant1	-11.81	8	Pass
NVNT	BLE 1M	2480	Ant1	-12.54	8	Pass

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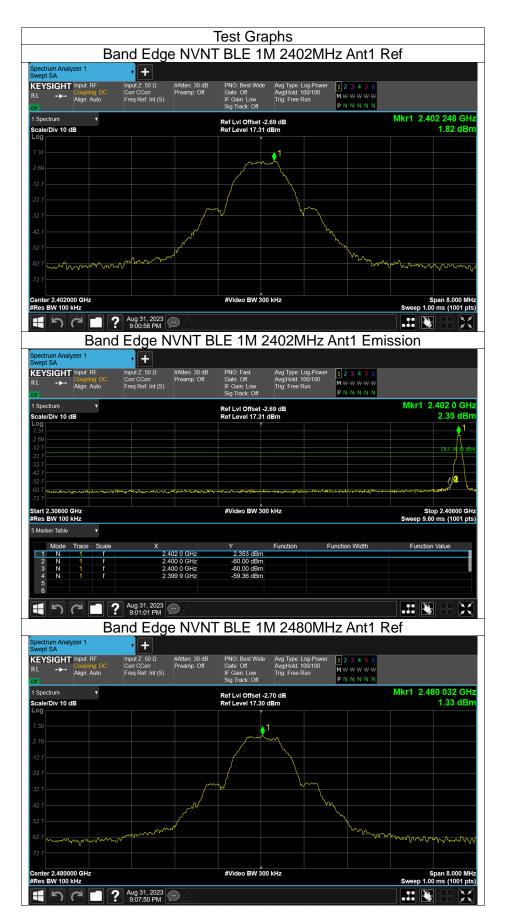


## Band Edge

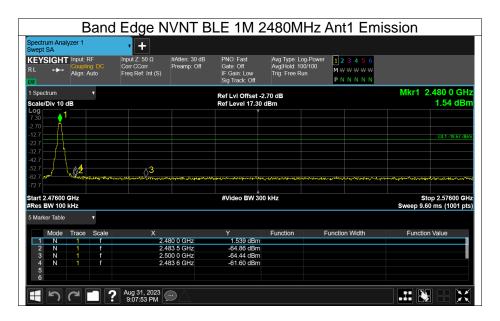
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-61.17	-20	Pass
NVNT	BLE 1M	2480	Ant1	-62.92	-20	Pass

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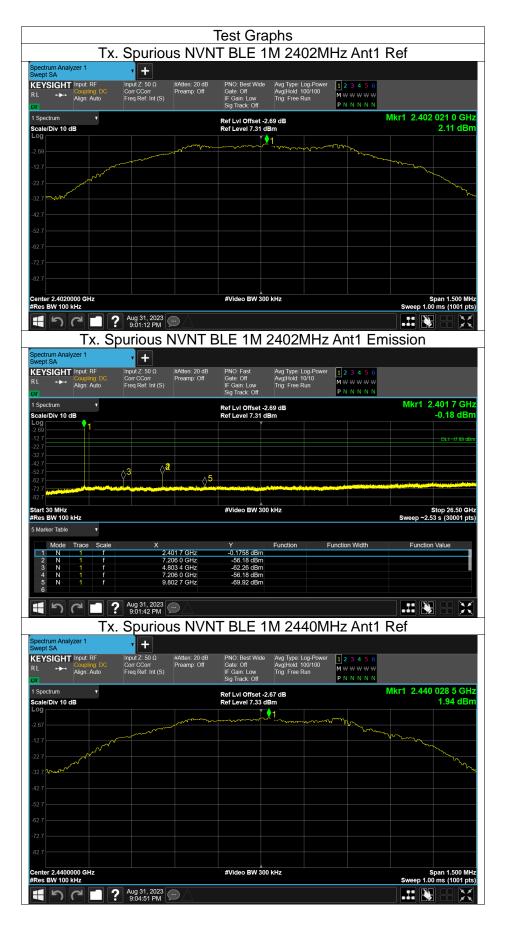


## Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-58.28	-20	Pass
NVNT	BLE 1M	2440	Ant1	-59.24	-20	Pass
NVNT	BLE 1M	2480	Ant1	-63.93	-20	Pass

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\*\*\*\*\*END OF THE REPORT\*\*\*

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