



TEST REPORT

Applicant: LUXPAD TABLET

Address: YangGuangGaoErFU Building, No 7008, SHENNAN Road, FuTian,

SHENZHEN, China

FCC ID: 2ANIRVMEDS3

Product Name: VMED Mobile Device with Bluetooth Functionality

Standard(s): 47 CFR Part 15, Subpart C (15.247)

ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: CR231273553-00A

Date Of Issue: 2024/2/1

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

Report No.: CR231273553-00A

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 442868, the FCC Designation No.: CN1314.

Declarations

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CONTENTS

DOCUMENT REVISION HISTORY	5
1. GENERAL INFORMATION	6
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	6
1.2 DESCRIPTION OF TEST CONFIGURATION	7
1.2.1 EUT Operation Condition 1.2.2 Support Equipment List and Details 1.2.3 Support Cable List and Details 1.2.4 Block Diagram of Test Setup 1.3 MEASUREMENT UNCERTAINTY	
2. SUMMARY OF TEST RESULTS	10
3. REQUIREMENTS AND TEST PROCEDURES	11
3.1 AC LINE CONDUCTED EMISSIONS	
3.1.1 Applicable Standard 3.1.2 EUT Setup 3.1.3 EMI Test Receiver Setup 3.1.4 Test Procedure 3.1.5 Corrected Amplitude & Margin Calculation 3.2 RADIATION SPURIOUS EMISSIONS	
3.2.1 Applicable Standard 3.2.2 EUT Setup 3.2.3 EMI Test Receiver & Spectrum Analyzer Setup 3.2.4 Test Procedure 3.2.5 Corrected Amplitude & Margin Calculation 3.3 MINIMUM 6 DB BANDWIDTH	
3.3.1 Applicable Standard	17
3.3.2 EUT Setup	17
3.3.3 Test Procedure	
3.4.1 Applicable Standard	18 18
3.5.1 Applicable Standard	19
3.5.2 EUT Setup	
3.6 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE	
3.6.1 Applicable Standard	
3.6.2 EUT Setup	20
3.6.3 Test Procedure 3.7 DUTY CYCLE	
3.7.1 EUT Setup	21

3.8 ANTENNA REQUIREMENT	21
3.8.1 Applicable Standard	21
4. Test DATA AND RESULTS	
4.1 AC LINE CONDUCTED EMISSIONS	22
4.2 RADIATION SPURIOUS EMISSIONS	23
4.3 6 DB EMISSION BANDWIDTH	34
4.4 MAXIMUM CONDUCTED OUTPUT POWER	36
4.5 MAXIMUM POWER SPECTRAL DENSITY	38
4.6 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE	40
4.7 DUTY CYCLE	42
5. RF EXPOSURE EVALUATION	43
5.1 APPLICABLE STANDARD	
5.2 MEASUREMENT RESULT	43
6. EUT PHOTOGRAPHS	44
7. TEST SETUP PHOTOGRAPHS	45

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR231273553-00A	Original Report	2024/2/1

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	VMED Mobile Device with Bluetooth Functionality	
EUT Model:	Vmed-S3	
Operation Frequency:	2402-2480 MHz	
Maximum Peak Output Power (Conducted):	-0.76 dBm	
Modulation Type:	GFSK	
Rated Input Voltage:	DC 3.7V from battery	
Serial Number:	2EYD-1 (for RF Conducted Test) 2EYD-2 (for Radiated Spurious Emissions Test)	
EUT Received Date:	: 2023/12/8	
EUT Received Status:	Good	

Report No.: CR231273553-00A

Operation Frequency Detail:

operation frequency Details			
Frequency (MHz)	Channel	Frequency (MHz)	
2402	20	2442	
2404	•••		
•••	•••		
	•••		
•••	38	2478	
19 2440		2480	
Per section 15.31(m), the below frequencies were performed to test:			
Test Channel		ency (MHz)	
Lowest		2402	
Middle		2440	
Highest		2480	
	Frequency (MHz) 2402 2404 2440 below frequencies were performance owest fiddle	Frequency (MHz) Channel 2402 20 2404 38 2440 39 below frequencies were performed to test: Channel Frequency (MHz) Frequency (MHz) Frequency (MHz) <t< td=""></t<>	

Antenna Information Detail ▲:

Antenna Manufacturer	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
Shenzhen Jiansheng Electronic Industry Co., Ltd	РСВ	50	2.4~2.5GHz	-0.34 dBi
The Method of §15.203 Compliance:				
⊠Antenna was permanently attached to the unit.				
☐Antenna use a unique type of connector to attach to the EUT.				
Unit was professionally installed, and installer shall be responsible for verifying that the correct				
antenna is employed with the unit.				

Accessory Information:

Accessory Description	Manufacturer	Model	Parameters
/	/	/	/

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer. Test mode: Transmitting
Equipment Modifications:	No
EUT Exercise Software:	RF_Test Rev1.0.0.6.exe

Report No.: CR231273553-00A

The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer \blacktriangle :

Total Marian	Power Level Setting			
Test Modes	Lowest Channel Middle Channel Highest Channel			
BLE 1Mbps	2	2	2	

1.2.2 Support Equipment List and Details

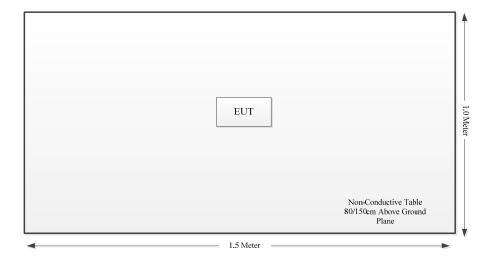
Manufacturer	Description	Model	Serial Number
/	/	/	/

1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
/	/	/	/	/	/

1.2.4 Block Diagram of Test Setup

Radiation Spurious Emissions:



1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	9kHz~30MHz: 4.12dB, 30MHz~200MHz: 4.15 dB, 200MHz~1GHz: 5.61 dB,1GHz~6GHz: 5.14 dB, 6GHz~18GHz: 5.93 dB, 18GHz~26.5GHz:5.47 dB, 26.5GHz~40GHz:5.63 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

Standard(s) Section	Test Items	Result
§15.207(a)	AC line conducted emissions	Not Applicable
§15.205, §15.209, §15.247(d)	Radiated Spurious Emissions	Compliant
§15.247 (a)(2)	Minimum 6 dB Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.203	Antenna Requirement	Compliant
§15.247(i), §1.1310	RF Exposure Evaluation	Compliant

Report No.: CR231273553-00A

Note:

Not Applicable: the device was powered by battery when operating.

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC§15.207(a).

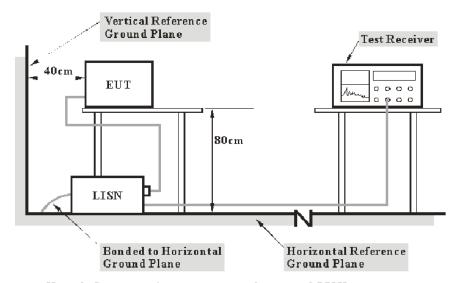
(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

	Conducted limit (dBµV)	
Frequency of emission (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 logarithm of the frequency.

- (b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:
- (1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.
- (2) For all other carrier current systems: $1000~\mu V$ within the frequency band 535-1705~kHz, as measured using a $50~\mu H/50$ ohms LISN.
- (3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.
- (c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

3.1.2 EUT Setup



Report No.: CR231273553-00A

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

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

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W	
150 kHz – 30 MHz	9 kHz	

3.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

Report No.: CR231273553-00A

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor Factor = attenuation caused by cable loss + voltage division factor of AMN

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit - Result

3.2 Radiation Spurious Emissions

3.2.1 Applicable Standard

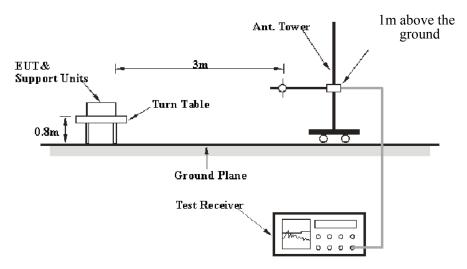
FCC §15.247 (d);

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

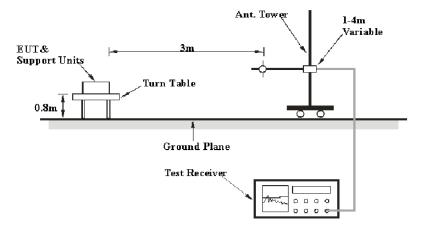
Report No.: CR231273553-00A

3.2.2 EUT Setup

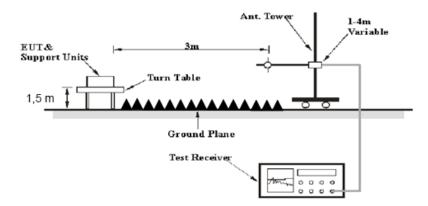
9kHz~30MHz:



30MHz~1GHz:



Above 1GHz:



Report No.: CR231273553-00A

The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9kHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9kHz-1000MHz:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
0111 150111	300 Hz	1 kHz		PK
9 kHz – 150 kHz			200 Hz	QP/AV
150 LU - 20 MU -	10 kHz	30 kHz		PK
150 kHz – 30 MHz			9 kHz	QP/AV
30 MHz – 1000 MHz	100 kHz	300 kHz		PK
30 MHZ – 1000 MHZ			120 kHz	QP

1GHz-25GHz:

Measurement	Duty cycle	RBW	Video B/W	
PK	Any	1MHz	3 MHz	
A .	>98%	1MHz	10 Hz	
Ave.	<98%	1MHz	≥1/T	

Note: T is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

3.2.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz-1 GHz except 9 - 90 kHz, 110 - 490 kHz, employing an average detector, peak and Average detection modes for frequencies above 1 GHz.

All emissions under the average limit and under the noise floor have not recorded in the report.

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor Factor = Antenna Factor + Cable Loss- Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit - Result

3.3 Minimum 6 dB Bandwidth

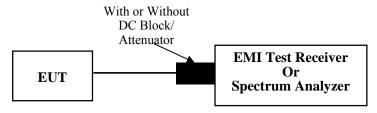
3.3.1 Applicable Standard

FCC §15.247 (a)(2)

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Report No.: CR231273553-00A

3.3.2 EUT Setup



3.3.3 Test Procedure

According to ANSI C63.10-2013 Section 11.8

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times RBW$.
- c) Detector = Peak.
- d) Trace mode = \max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.4 Maximum Conducted Output Power

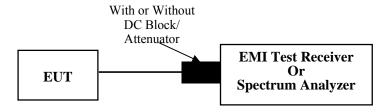
3.4.1 Applicable Standard

FCC §15.247 (b)(3)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Report No.: CR231273553-00A

3.4.2 EUT Setup



3.4.3 Test Procedure

According to ANSI C63.10-2013 Section 11.9.1.1

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 \geq DTS bandwidth.
- b) Set VBW \geq [3 × RBW].
- c) Set span $\geq [3 \times RBW]$.
- 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.

3.5 Maximum Power Spectral Density

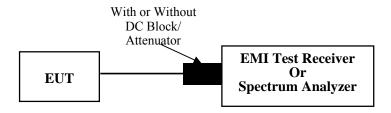
3.5.1 Applicable Standard

FCC §15.247 (e)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Report No.: CR231273553-00A

3.5.2 EUT Setup



3.5.3 Test Procedure

According to ANSI C63.10-2013 Section 11.10.2

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to 3 kHz \leq RBW \leq 100 kHz.
- d) Set the VBW \geq [3 × RBW].
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

3.6 100 kHz Bandwidth of Frequency Band Edge

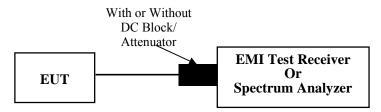
3.6.1 Applicable Standard

FCC §15.247 (d);

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Report No.: CR231273553-00A

3.6.2 EUT Setup



3.6.3 Test Procedure

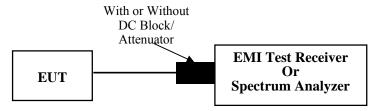
According to ANSI C63.10-2013 Section 11.11

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq [3 \times RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

3.7 Duty Cycle

3.7.1 EUT Setup



Report No.: CR231273553-00A

3.7.2 Test Procedure

According to ANSI C63.10-2013 Section 11.6

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value.
- 3) Set VBW \geq RBW. Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if T $\le 16.7 \,\mu s$.)

3.8 Antenna Requirement

3.8.1 Applicable Standard

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.8.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.

4. Test DATA AND RESULTS

4.1 AC Line Conducted Emissions

Not Applicable, the device was powered by battery when operating.

4.2 Radiation Spurious Emissions

Serial Number:	2EYD-2	Test Date:	2024/1/7~2024/1/10
Test Site:	966-2,966-1	Test Mode:	Transmitting
Tester:	Carl Xue, Tao Zhu	Test Result:	Pass

Report No.: CR231273553-00A

Environmenta	l Conditions:			
Temperature: $(^{\circ}\mathbb{C})$	25.2~25.9	Relative Humidity: (%) 46~61	ATM Pressure: (kPa)	101.1~102.2

Test Equipment List and Details:

Test Equipmen	t List and Details.				
Manufacturer	Description	Model	Serial	Calibration	Calibration
Manufacturer	Description	Wiodei	Number	Date	Due Date
	Radia	ation Spurious Emissic	ons Below 1GHz		
Sunol Sciences	Antenna	JB6	A082520-5	2023/12/1	2026/11/30
BACL	Loop Antenna	1313-1P	3092721	2023/10/20	2026/10/19
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/7/16	2024/7/15
Sonoma	Amplifier	310N	186165	2023/7/16	2024/7/15
Audix	Test Software	E3	201021 (V9)	N/A	N/A
	Radia	ation Spurious Emissio	ons Above 1GHz		
АН	Double Ridge Guide Horn Antenna	SAS-571	1394	2023/2/22	2026/2/21
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200- 70U300	217423-008	2023/8/6	2024/8/5
MICRO-COAX	Coaxial Cable	UFA210A-1-2362- 300300	235780-001	2023/8/6	2024/8/5
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2023/11/8	2024/11/7
Audix	Test Software	E3	201021 (V9)	N/A	N/A
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2021/2/5	2024/2/4
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2023/9/15	2024/9/14
MICRO-COAX	Coaxial Cable	UFB142A-1-2362- 200200	235772-001	2023/8/6	2024/8/5
E-Microwave	Band Rejection Filter	2400-2483.5MHz	OE01902424	2023/8/6	2024/8/5
Mini Circuits	High Pass Filter	VHF-6010+	31119	2023/8/6	2024/8/5

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

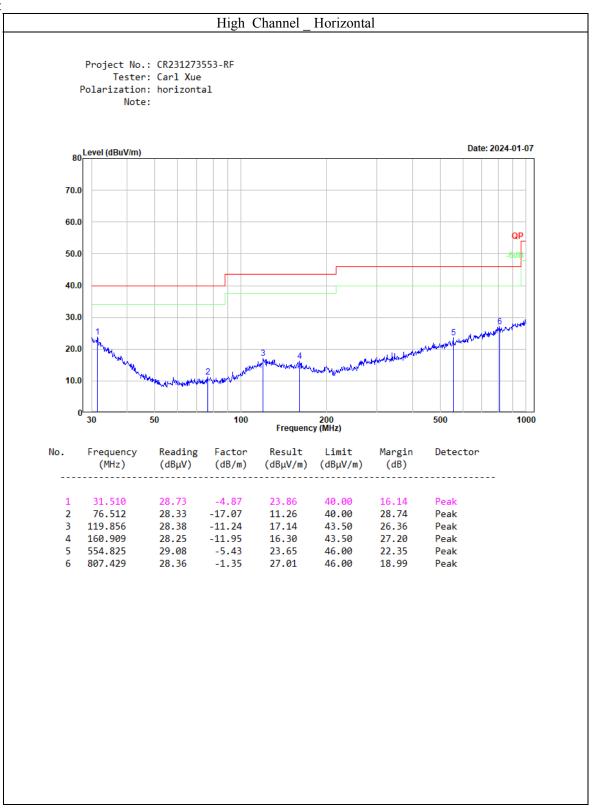
Please refer to the below table and plots.

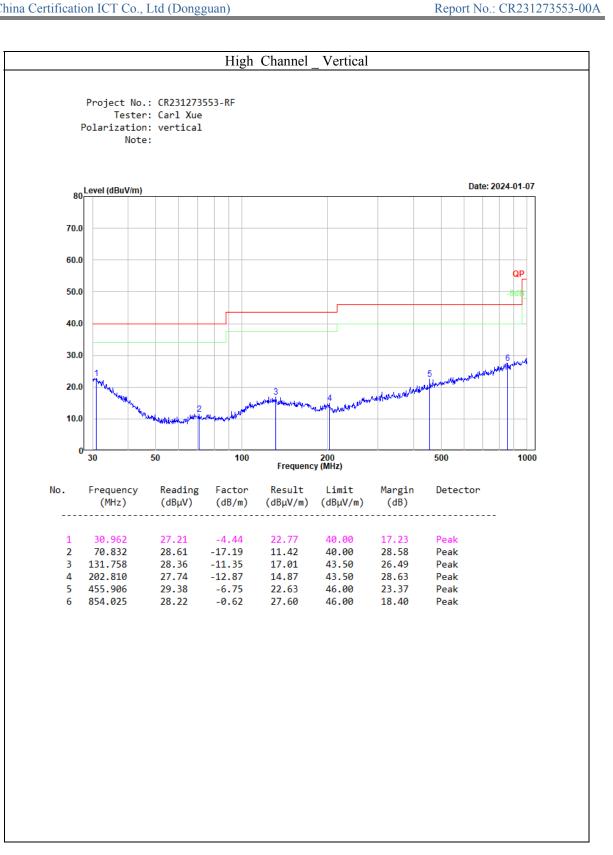
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

China Certification ICT Co., Ltd (Dongguan)	Report No.: CR231273553-004
1) 9kHz~30MHz	
The amplitude of spurious emissions attenuated more th not required to be report.	an 20 dB below the permissible value is

2) 30MHz-1GHz(maximum output power mode (BLE 1M High Channel) was tested)

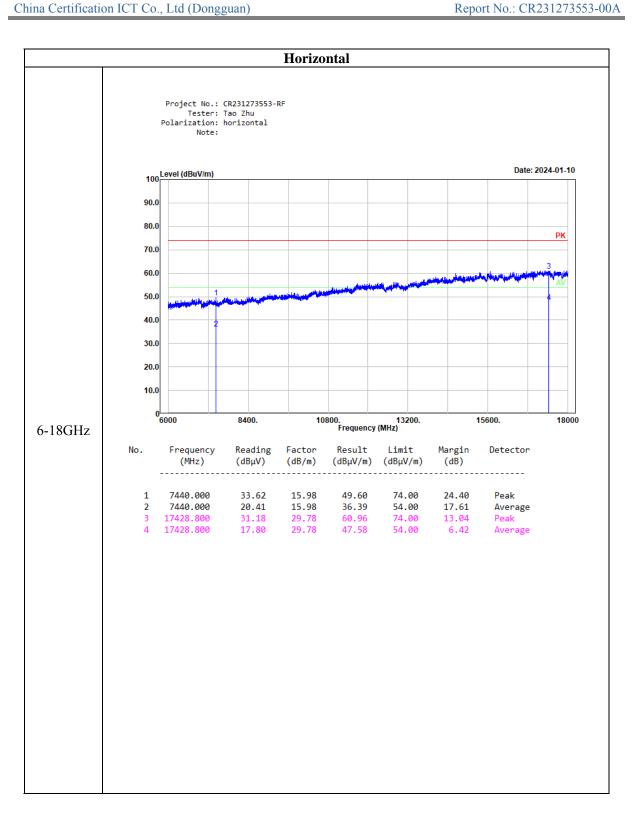


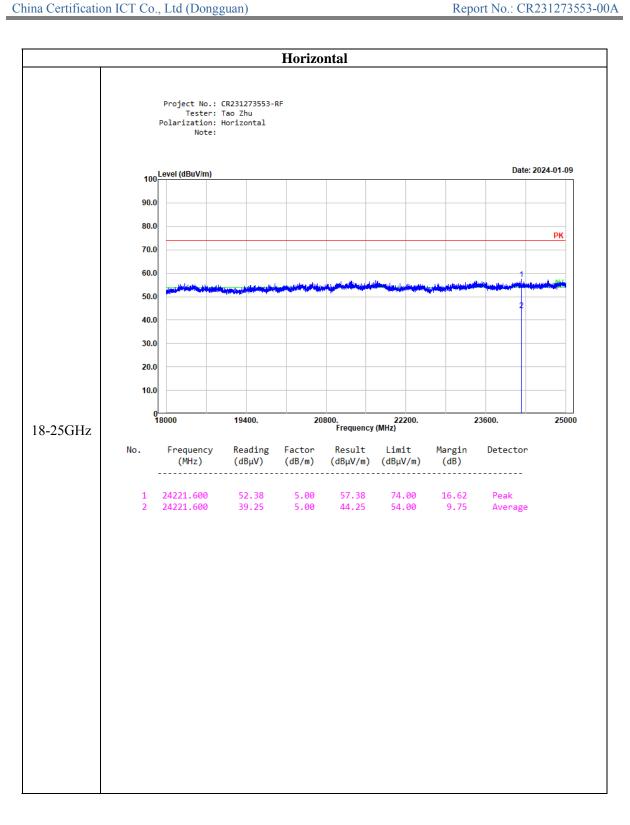


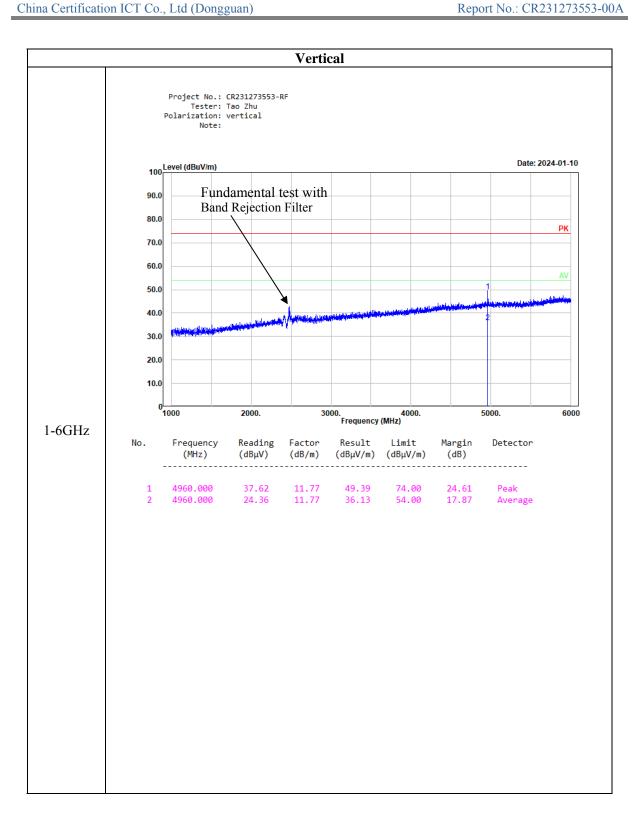


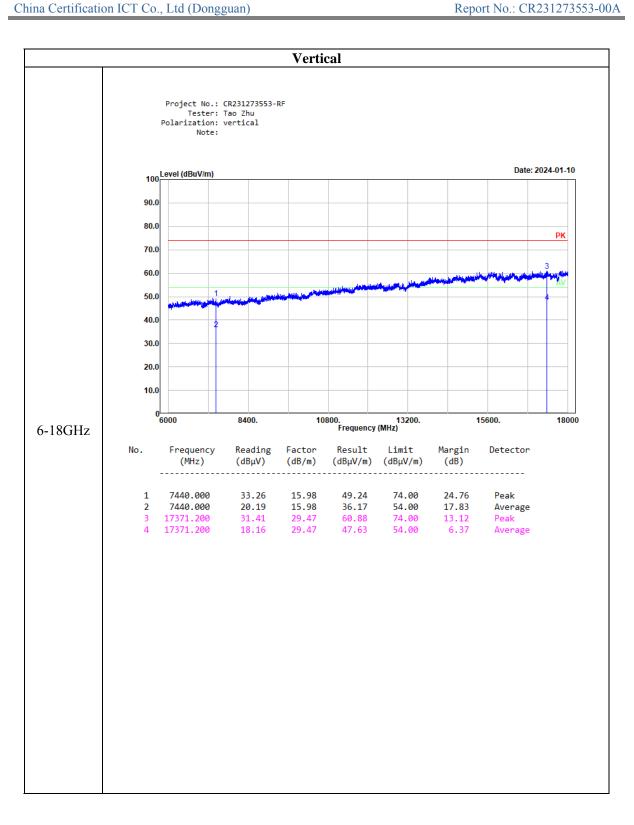
3) 1-25GHz: BLE 1Mbps

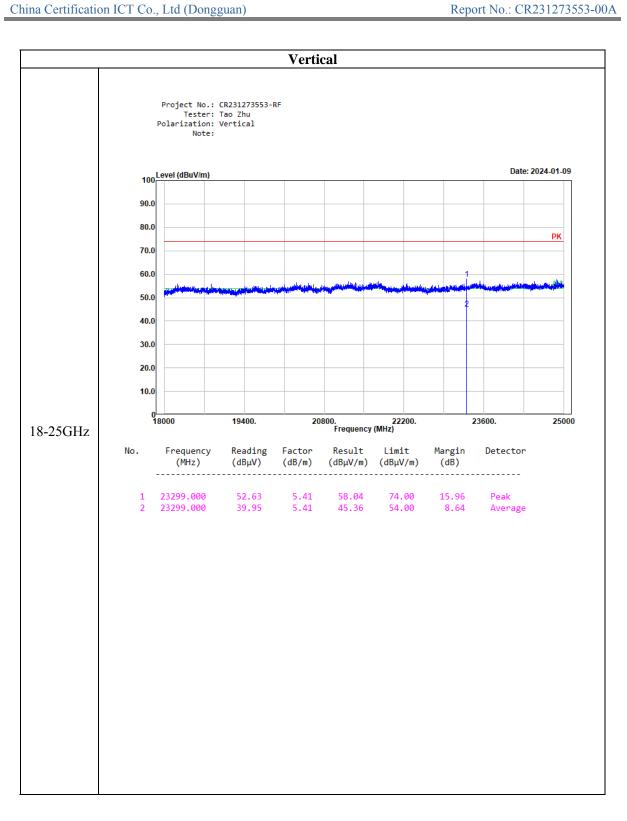
BLE 1Mbps	_						
Frequency		eiver	Polar Factor	Result	Limit	Margin	
(MHz)	Reading (dBµV)	Detector	(H/V)	(dB/m)	(dBµV/m)	$(dB\mu V/m)$	(dB)
		Low C	Channel:	2402	MHz		
2390.000	27.10	PK	Н	31.71	58.81	74.00	15.19
2390.000	14.35	AV	Н	31.71	46.06	54.00	7.94
2390.000	27.35	PK	V	31.71	59.06	74.00	14.94
2390.000	14.26	AV	V	31.71	45.97	54.00	8.03
4804.000	38.65	PK	Н	11.19	49.84	74.00	24.16
4804.000	25.47	AV	Н	11.19	36.66	54.00	17.34
4804.000	36.32	PK	V	11.19	47.51	74.00	26.49
4804.000	23.20	AV	V	11.19	34.39	54.00	19.61
7206.000	33.39	PK	Н	15.03	48.42	74.00	25.58
7206.000	20.29	AV	Н	15.03	35.32	54.00	18.68
7206.000	33.32	PK	V	15.03	48.35	74.00	25.65
7206.000	20.29	AV	V	15.03	35.32	54.00	18.68
	•	Middle (Channel:	2440	MHz		
4880.000	39.36	PK	Н	11.48	50.84	74.00	23.16
4880.000	26.62	AV	Н	11.48	38.10	54.00	15.90
4880.000	37.46	PK	V	11.48	48.94	74.00	25.06
4880.000	24.63	AV	V	11.48	36.11	54.00	17.89
7320.000	33.38	PK	Н	15.58	48.96	74.00	25.04
7320.000	20.45	AV	Н	15.58	36.03	54.00	17.97
7320.000	33.30	PK	V	15.58	48.88	74.00	25.12
7320.000	20.29	AV	V	15.58	35.87	54.00	18.13
		High C	Channel:	2480	MHz		
2483.500	27.68	PK	Н	32.19	59.87	74.00	14.13
2483.500	14.85	AV	Н	32.19	47.04	54.00	6.96
2483.500	27.64	PK	V	32.19	59.83	74.00	14.17
2483.500	14.66	AV	V	32.19	46.85	54.00	7.15
4960.000	39.38	PK	Н	11.77	51.15	74.00	22.85
4960.000	26.53	AV	Н	11.77	38.30	54.00	15.70
4960.000	37.62	PK	V	11.77	49.39	74.00	24.61
4960.000	24.36	AV	V	11.77	36.13	54.00	17.87
7440.000	33.62	PK	Н	15.98	49.60	74.00	24.40
7440.000	20.41	AV	Н	15.98	36.39	54.00	17.61
7440.000	33.26	PK	V	15.98	49.24	74.00	24.76
7440.000	20.19	AV	V	15.98	36.17	54.00	17.83











4.3 6 dB Emission Bandwidth

Serial Number:	2EYD-1	Test Date:	2024/2/1
Test Site:	RF	Test Mode:	Transmitting
Tester:	LingLing Li	Test Result:	Pass

Report No.: CR231273553-00A

Environmental Conditions:								
	Temperature: $(^{\circ}\mathbb{C})$	25.1	Relative Humidity: (%)	55	ATM Pressure: (kPa)	101.2		

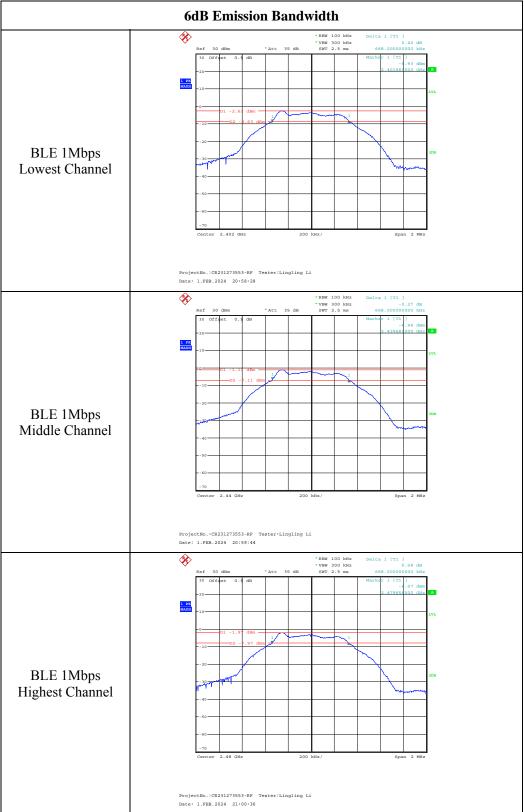
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Channel	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
Lowest	2402	0.668	≥0.5
Middle	2440	0.668	≥0.5
Highest	2480	0.668	≥0.5



Page 35 of 45

4.4 Maximum Conducted Output Power

Serial Number:	2EYD-1	Test Date:	2024/2/1
Test Site:	RF	Test Mode:	Transmitting
Tester:	LingLing Li	Test Result:	Pass

Report No.: CR231273553-00A

Environmental Conditions:					
Temperature: $(^{\circ}\mathbb{C})$	25.1	Relative Humidity: (%)	55	ATM Pressure: (kPa)	101.2

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Modes Test Frequency (MHz)		Maximum Peak Conducted Output Power (dBm)	Limit (dBm)
	2402	-2.22	€30
BLE 1Mbps	2440	-0.76	€30
	2480	-1.63	€30

Page 37 of 45

4.5 Maximum Power Spectral Density

Serial Number:	2EYD-1	Test Date:	2024/2/1
Test Site:	RF	Test Mode:	Transmitting
Tester:	LingLing Li	Test Result:	Pass

Report No.: CR231273553-00A

Environmental Conditions:					
Temperature: $(^{\circ}\mathbb{C})$	25.1	Relative Humidity: (%)	55	ATM Pressure: (kPa)	101.2

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Modes	Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
BLE 1Mbps	2402	-17.83	≤8.00
	2440	-16.31	≤8.00
	2480	-17.19	≤8.00

Page 39 of 45

ProjectNo.:CR231273553-RF Tester:Lingling Li Date: 1.FEB.2024 21:01:04

4.6 100 kHz Bandwidth of Frequency Band Edge

Serial Number:	2EYD-1	Test Date:	2024/2/1
Test Site:	RF	Test Mode:	Transmitting
Tester:	LingLing Li	Test Result:	Pass

Report No.: CR231273553-00A

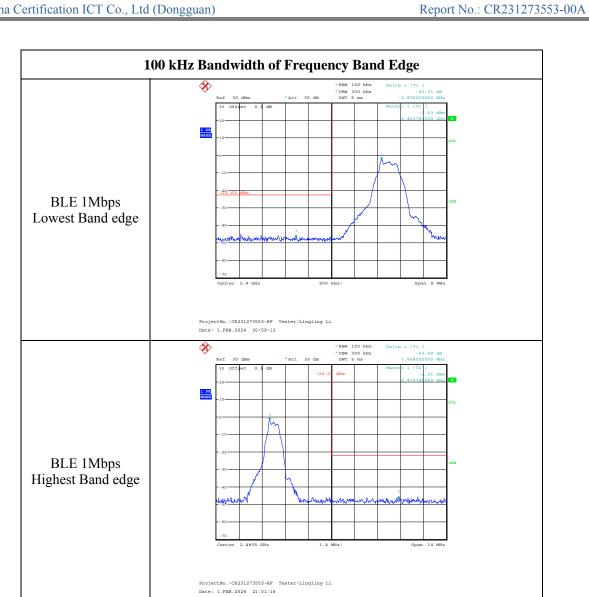
Environmental Conditions:					
Temperature: (°C)	25.1	Relative Humidity: (%)	55	ATM Pressure: (kPa)	101.2

Test Equipment List and Details:

	Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Ī	R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
Ī	zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:



4.7 Duty Cycle

Ser	ial Number:	2EYD-1	Test Date:	2024/2/1
	Test Site:	RF	Test Mode:	Transmitting
	Tester:	LingLing Li	Test Result:	N/A

Report No.: CR231273553-00A

Environmental Conditions:					
Temperature: (°C)	25.1	Relative Humidity: (%)	55	ATM Pressure: (kPa)	101.2

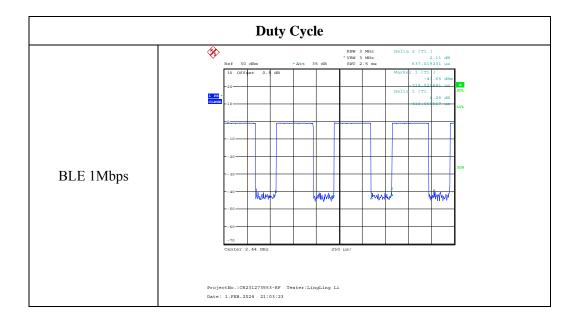
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30	
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A	

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Channel	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	VBW Setting (kHz)
Middle	0.417	0.637	65.46	2398	3



5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

According to §15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Report No.: CR231273553-00A

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,

mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is ≤ 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

5.2 Measurement Result

The max conducted power including tune-up tolerance is 0 dBm (1.0mW). [(max. power of channel, mW)/(min. test separation distance, mm)][$\sqrt{f(GHz)}$] =1.0/5*($\sqrt{2.480}$) = 0.3 < 3.0

Result: Compliant. The stand-alone SAR evaluation is not necessary.

6. EUT PHOTOGRAPH	S		
Please refer to the attachment CR CR231273553-INP EUT INTERI	231273553-EXP EUT EXTE	RNAL PHOTOGRAPHS and	
CR2512/5555-HVI EOT HVIERI	WAL THOTOGRATIIS		

China	Certification	ICT Co	I td	(Dongguan)
CIIIIIa	Certification	101 00	Liu	i Dongguan i

7. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231273553-00A-TSP TEST SETUP PHOTOGRAPHS.

==== END OF REPORT ====