



TEST REPORT

Applicant: Planet Avvio LLC

Address: 7411 W. CYPRESSHEAD DR, PARKLAND, FLORIDA, United States

33067

FCC ID: 2ALTARA680

Product Name: Smart phone

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: CR231272455-00A

Date Of Issue: 2024/1/5

Reviewed By: Calvin Chen

Title: RF Engineer

Approved By: Sun Zhong
Title: Manager

Sun Zhong

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)

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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.

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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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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision	
1.0	CR231272455-00A	Original Report	2024/1/5	

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1.1 I rouder Description for Equipment under Test (ECT)		
EUT Name:	Smart phone	
EUT Model:	AVVIO A680	
Operation Frequency:	2402-2480 MHz	
Maximum Peak Output Power (Conducted):	-1.19 dBm	
Modulation Type:	GFSK	
Rated Input Voltage:	DC 5V from Adapter or 3.87V from battery	
Serial Number:	CE&RE:2EOC-3;RF:2EOC-1	
EUT Received Date:	2023/12/4	
EUT Received Status:	Good	

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Operation Frequency Detail: For BLE 1Mbps:

Channel	Channel Frequency (MHz)		Frequency (MHz)	
0	2402	20	2442	
1	2404	•••	•••	
•••		•••		
•••			•••	
			2478	
19			2480	
Per section 15.31(m), the	below frequencies were perform	ned the test as below:		
Test	Channel		quency MHz)	
Lowest		2402		
Middle		2440		
Highest		2480		

For BLE 2Mbps:

Channel Frequency (MHz)		Channel	Frequency (MHz)	
1	2404	20	2442	
2	2406	•••	•••	
•••	•••	•••	•••	
•••		•••	•••	
		38	2478	
19	2440	/	/	
Per section 15.31(m), the	below frequencies were perform	ned the test as below:		
Test	Channel		quency MHz)	
BLE	1M Lowest	2402		
BLE	1M Middle	2440		
BLE 1	M Highest	2480		

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2404

2440

2478

Antenna Information Detail ▲:

BLE 2M Lowest

BLE 2M Middle BLE 2M Highest

Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain (dBi)			
FPC	50	2.4~2.5GHz	-0.42			
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		Parameters
Adapter			Input: 100-240V~50/60Hz 0.3A Output: 5V/2A

1.2 Description of Test Configuration 1.2.1 EUT Operation Condition:

For BLE:

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.	
Equipment Modifications:	No	
EUT Exercise Software:	*#*#3646633#*#*	

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

Test Modes	Power Level Setting				
Test Modes	Lowest Channel Middle Channel Highest Channel				
1Mbps	9 9 9				
2Mbps	9 9 9				
Note: The device only support SISO mode.					

1.2.2 Support Equipment List and Details

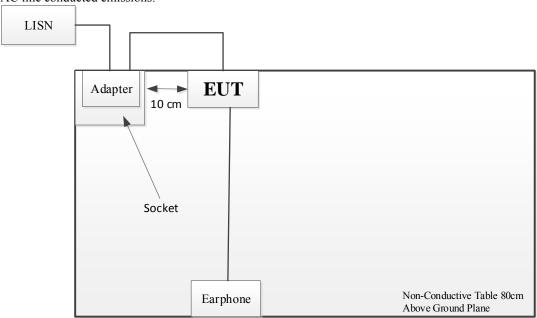
Manufacturer	ManufacturerDescriptionCLCEarphone		Description Model		Serial Number	
CLC			EP21106054			
Unknown	Unknown Socket		Unknown			

1.2.3 Support Cable List and Details

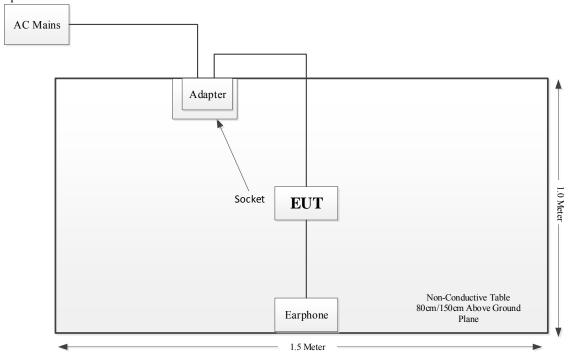
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
Power Cable	NO	NO	0.8	Adapter	EUT
Earphone Cable	NO	NO	1	Earphone	EUT

1.2.4 Block Diagram of Test Setup

AC line conducted emissions:



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
	9k~30MHz:4.12dB
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB,
	6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G: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	Compliant
§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) & §1.1307 & §2.1093	RF Exposure Evaluation	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC§15.207(a).

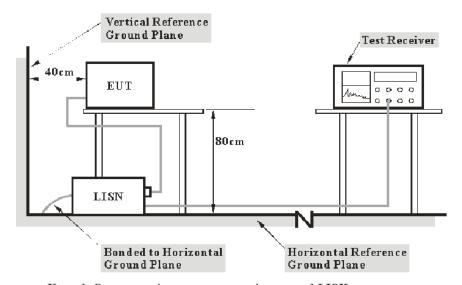
(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, 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



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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.

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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

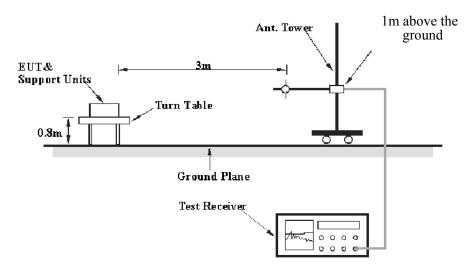
FCC §15.247 (d);

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)).

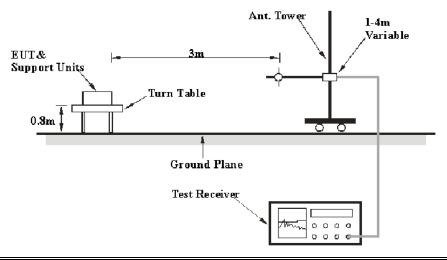
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3.2.2 EUT Setup

9 kHz-30MHz:

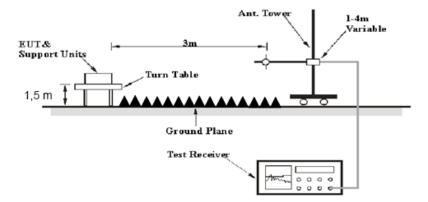


30MHz-1GHz:



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Above 1GHz:



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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.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 25 GHz.

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

9 kHz -1000 MHz:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
9 kHz – 150 kHz	/	/	200 Hz	QP
9 KHZ - 130 KHZ	300 Hz	1 kHz	/	PK
150 kHz – 30 MHz	/	/	9 kHz	QP
130 KHZ – 30 MHZ	10 kHz	30 kHz	/	PK
30 MHz – 1000 MHz	/	/	120 kHz	QP
30 MHZ - 1000 MHZ	100 kHz	300 kHz	/	PK

1GHz-25GHz:

Measurement	Measurement Duty cycle		Video B/W	
PK	Any	1MHz	3 MHz	
Avia	>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.

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The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

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

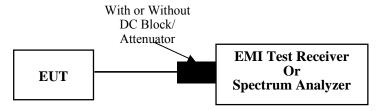
3.3.1 Applicable Standard

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.

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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

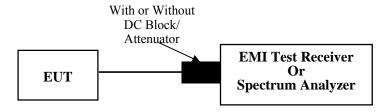
3.4.1 Applicable Standard

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.

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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

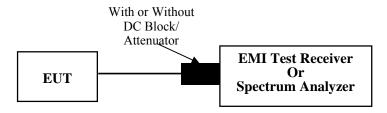
3.5.1 Applicable Standard

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.

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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

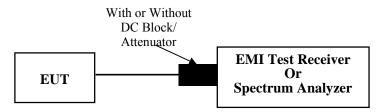
3.6.1 Applicable Standard

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)).

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3.6.2 EUT Setup



3.6.3 Test Procedure

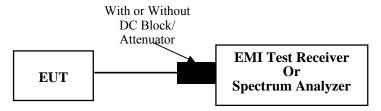
According to ANSI C63.10-2013 Section 11.11

- 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



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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.

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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

Serial Number:	2EOC-3	Test Date:	2023/12/28
Test Site:	CE	Test Mode:	Transmitting
Tester:	David Huang	Test Result:	Pass

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Environmental Conditions:									
Temperature: (°C)	21.6	Relative Humidity: (%)	45	ATM Pressure: (kPa)	101.6				

Test Equipment List and Details:

Manufacturer	facturer Description		Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2023/3/31	2024/3/30
R&S	Receiver		102726	2023/3/31	2024/3/30
MICRO-COAX			C-0200-01	2023/8/6	2024/8/5
Audix	Test Software	E3	190306 (V9)	N/A	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:

Provides BLE 2MHz Middle channel test results at 0.15MHz-30MHz (highest power for Conducted Output Power).

Project No.: CR231272455-RF Tester: David Huang Port: Line Note: Transmitting(BLE)

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	10 20		3	z)	ency (M	Frequ	•		.5		.2	13	
	Detector	argin	Ma	Limit	ult	Resi	ctor	Fac	Reading	су	equen	Fr	lo.
		(dB)	((dBµV)	μV) 	(dB _l	dB)	(0	(dBμV)		(MHz)		
	Average	0.50	20	55.19	69	34.0	.61	a	25.08		0.165		1
	OP	3.98		65.19		51.	.61		41.60		0.165		2
	Äverage	4.74	24	53.90	16	29.3	.61	9.	19.55		0.193		3
	QP	7.43	17	63.90	47	46.4	.61	9.	36.86		0.193		4
	Average	1.27	21	51.42		30.3	.61	9.	20.54		0.260		5
	QP	6.45	16	61.42	97	44.9	.61	9.	35.36		260		6
	Average	5.57	15	46.00		30.4	.62	9.	20.81		0.615		7
	QP	4.26		56.00	74	41.	.62		32.12		0.615		8
	Average	5.23	25	50.00	77	24.	.68	9.	15.09		2.850	1	9
	QP	9.59	19	60.00	41	40.4	.68	9.	30.73		2.850	1	10
	•												
	Average QP	3.54	23	50.00	46	26.4	.70	9.	16.76		5.545		11 12

4.2 Radiation Spurious Emissions

Serial Number:	2EOC-3	Test Date:	2023/12/19~2023/12/30
Test Site:	966-1, 966-2	Test Mode:	Transmitting
Tester:	Jeff Luo, Tao Zhu	Test Result:	Pass

Report No.: CR231272455-00A

Environmental Conditions:										
Temperature: $(^{\circ}\mathbb{C})$	24.6~26	Relative Humidity: (%)	42~54	ATM Pressure: (kPa)	101.4~101.7					

Test Equipment List and Details:

1 cst Equipmen	t List and Details.								
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date				
Below 1GHz									
Sunol Sciences	Antenna	JB6	A082520-6	2023/9/18	2026/9/17				
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				
		Above 1GH	Z						
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				
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.

Note: The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.

Report No.: CR231272455-00A

0.009MHz-30MHz false emission is more than 20dB below the limit value. No test results were recorded.(Test Mode: BLE 2M Middle Channel, loop antenna position: parallel)

Provides BLE 2MHz test results at 30MHz-1GHz (highest power for Conducted Output Power).

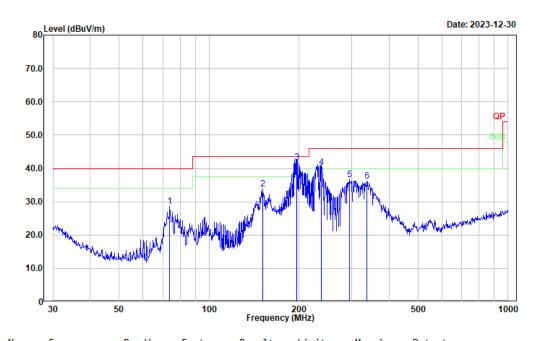
After pre-scan in the X, Y and Z axes of orientation, the worst case is below: Y.

Radiation Spurious Emissions from 1 to 25GHz provides test results and test plots(Only the test plot with the smallest harmonic margin is provided) for sideband and harmonics of the Y-axis.

1) 30MHz-1GHz: (Maximum output power mode, BLE 2M_) Low Channel:

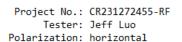
Project No.: CR231272455-RF Tester: Jeff Luo

Polarization: horizontal Note: Transmitting(BLE 2Mbps Mode)

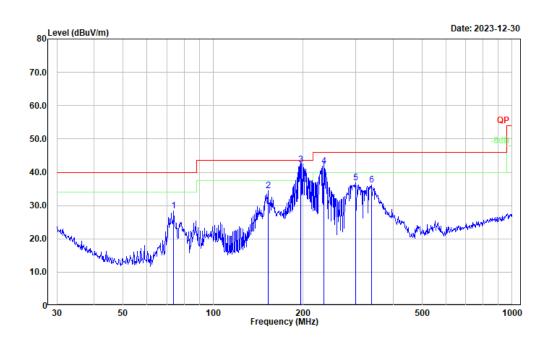


No.	Frequency (MHz)	Reading (dBμV)	(dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	
1	73.876	45.88	-17.30	28.58	40.00	11.42	Peak	
2	151.067	46.08	-12.27	33.81	43.50	9.69	Peak	
3	196.510	54.79	-13.00	41.79	43.50	1.71	QP	
4	237.476	53.72	-13.46	40.26	46.00	5.74	QP	
5	295.147	47.88	-11.26	36.62	46.00	9.38	Peak	
6	337 216	46 81	-10 52	36 29	46 00	9 71	Peak	

Middle Channel:

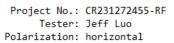


Note: Transmitting(BLE 2Mbps Mode)

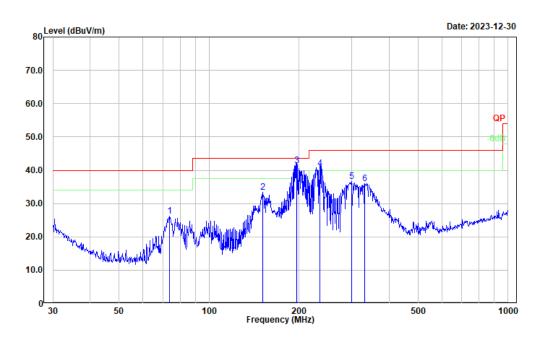


No.	Frequency (MHz)	Reading (dBμV)	(dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	
1	73.876	45.67	-17.30	28.37	40.00	11.63	Peak	
2	152.664	46.73	-12.26	34.47	43.50	9.03	Peak	
3	196.510	55.21	-13.00	42.21	43.50	1.29	QP	
4	234.168	55.30	-13.41	41.89	46.00	4.11	QР	
5	299.316	47.87	-11.08	36.79	46.00	9.21	Peak	
6	338.400	46.63	-10.50	36.13	46.00	9.87	Peak	

High Channel:



Note: Transmitting(BLE 2Mbps Mode)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	73.876	43.58	-17.30	26.28	40.00	13.72	Peak
2	151.067	45.60	-12.27	33.33	43.50	10.17	Peak
3	196.510	54.32	-13.00	41.32	43.50	2.18	QP
4	234.168	53.99	-13.41	40.58	46.00	5.42	QP
5	299.316	47.80	-11.08	36.72	46.00	9.28	Peak
6	331.355	46.47	-10.55	35.92	46.00	10.08	Peak

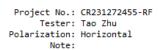
2) 1-25GHz: BLE 1Mbps:

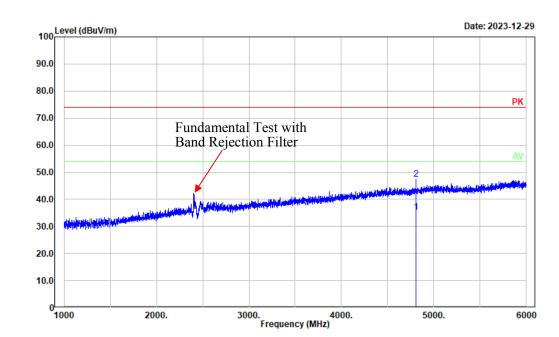
BLE 1Mbps:							
Eraguanav	Rece	eiver	Polar	Factor	Result	Limit	Margin
Frequency (MHz)	Reading (dBµV)	Detector	(H/V)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)
		Low (Channel:	2402	MHz		
2390.000	33.43	PK	Н	31.71	65.14	74.00	8.86
2390.000	18.51	AV	Н	31.71	50.22	54.00	3.78
2390.000	33.03	PK	V	31.71	64.74	74.00	9.26
2390.000	18.25	AV	V	31.71	49.96	54.00	4.04
4804.000	36.22	PK	Н	11.19	47.41	74.00	26.59
4804.000	24.04	AV	Н	11.19	35.23	54.00	18.77
4804.000	37.02	PK	V	11.19	48.21	74.00	25.79
4804.000	24.75	AV	V	11.19	35.94	54.00	18.06
7206.000	36.84	PK	Н	15.03	51.87	74.00	22.13
7206.000	23.98	AV	Н	15.03	39.01	54.00	14.99
7206.000	35.91	PK	V	15.03	50.94	74.00	23.06
7206.000	25.59	AV	V	15.03	40.62	54.00	13.38
		Middle (Channel:	2440	MHz		
4880.000	35.66	PK	Н	11.48	47.14	74.00	26.86
4880.000	23.03	AV	Н	11.48	34.51	54.00	19.49
4880.000	35.68	PK	V	11.48	47.16	74.00	26.84
4880.000	23.79	AV	V	11.48	35.27	54.00	18.73
7320.000	35.76	PK	Н	15.58	51.34	74.00	22.66
7320.000	23.45	AV	Н	15.58	39.03	54.00	14.97
7320.000	35.41	PK	V	15.58	50.99	74.00	23.01
7320.000	23.54	AV	V	15.58	39.12	54.00	14.88
		High (Channel:	2480	MHz		
2483.500	32.91	PK	Н	32.19	65.10	74.00	8.90
2483.500	18.76	AV	Н	32.19	50.95	54.00	3.05
2483.500	32.98	PK	V	32.19	65.17	74.00	8.83
2483.500	18.17	AV	V	32.19	50.36	54.00	3.64
4960.000	35.46	PK	Н	11.77	47.23	74.00	26.77
4960.000	23.64	AV	Н	11.77	35.41	54.00	18.59
4960.000	36.20	PK	V	11.77	47.97	74.00	26.03
4960.000	23.80	AV	V	11.77	35.57	54.00	18.43
7440.000	34.86	PK	Н	15.98	50.84	74.00	23.16
7440.000	23.79	AV	Н	15.98	39.77	54.00	14.23
7440.000	35.21	PK	V	15.98	51.19	74.00	22.81
7440.000	24.14	AV	V	15.98	40.12	54.00	13.88

BLE 2Mbps:

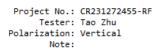
BLE 2Mbps:							
F	Rec	Receiver		Г. (Result	T imit	3.6
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	(dBµV/m)	Limit (dBµV/m)	Margin (dB)
		Low (Channel:	2404	MHz		
2390.000	33.71	PK	Н	31.71	65.42	74.00	8.58
2390.000	18.96	AV	Н	31.71	50.67	54.00	3.33
2390.000	32.66	PK	V	31.71	64.37	74.00	9.63
2390.000	18.70	AV	V	31.71	50.41	54.00	3.59
4808.000	35.40	PK	Н	11.22	46.62	74.00	27.38
4808.000	22.95	AV	Н	11.22	34.17	54.00	19.83
4808.000	36.29	PK	V	11.22	47.51	74.00	26.49
4808.000	23.81	AV	V	11.22	35.03	54.00	18.97
7212.000	35.80	PK	Н	15.07	50.87	74.00	23.13
7212.000	23.26	AV	Н	15.07	38.33	54.00	15.67
7212.000	35.94	PK	V	15.07	51.01	74.00	22.99
7212.000	24.86	AV	V	15.07	39.93	54.00	14.07
		Middle (Channel:	2440	MHz		
4880.000	35.09	PK	Н	11.48	46.16	74.00	27.84
4880.000	24.64	AV	Н	11.48	35.71	54.00	18.29
4880.000	35.87	PK	V	11.48	46.94	74.00	27.06
4880.000	23.57	AV	V	11.48	34.64	54.00	19.36
7320.000	36.06	PK	Н	15.58	51.64	74.00	22.36
7320.000	24.77	AV	Н	15.58	40.35	54.00	13.65
7320.000	36.41	PK	V	15.58	51.99	74.00	22.01
7320.000	24.37	AV	V	15.58	39.95	54.00	14.05
		High (Channel:	2478	MHz		
2483.500	33.25	PK	Н	32.19	65.44	74.00	8.56
2483.500	18.78	AV	Н	32.19	50.97	54.00	3.03
2483.500	34.12	PK	V	32.19	66.31	74.00	7.69
2483.500	19.33	AV	V	32.19	51.52	54.00	2.48
4956.000	36.74	PK	Н	11.77	48.51	74.00	25.49
4956.000	23.60	AV	Н	11.77	35.37	54.00	18.63
4956.000	35.65	PK	V	11.77	47.42	74.00	26.58
4956.000	22.84	AV	V	11.77	34.61	54.00	19.39
7434.000	34.90	PK	Н	15.93	50.83	74.00	23.17
7434.000	23.78	AV	Н	15.93	39.71	54.00	14.29
7434.000	35.47	PK	V	15.93	51.40	74.00	22.6
7434.000	24.61	AV	V	15.93	40.54	54.00	13.46

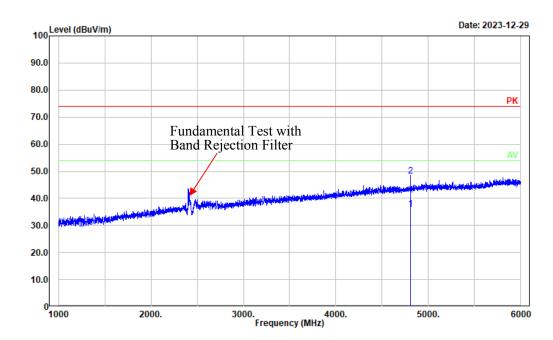
Listed with the worst harmonic margin test plot (BLE 1M Low Channel)



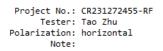


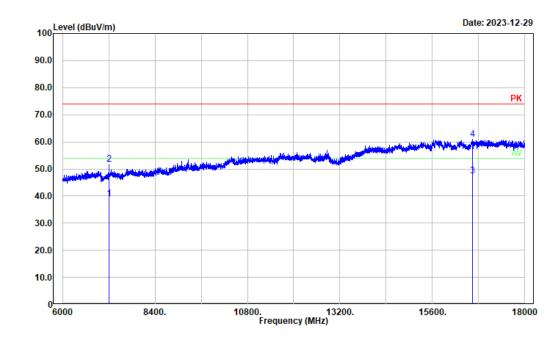
No.	Frequency (MHz)	Reading (dBμV)		Result (dBµV/m)		Margin (dB)	Detector
1	4804.000	24.04	11.19	35.23	54.00	18.77	Average
2	4804.000	36.22	11.19	47.41	74.00	26.59	Peak



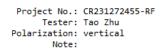


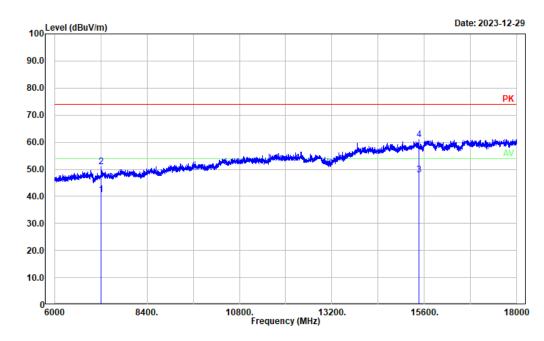
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4804.000	24.75	11.19	35.94	54.00	18.06	Average
2	4804.000	37.02	11.19	48.21	74.00	25.79	Peak





No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	7206.000	23.98	15.03	39.01	54.00	14.99	Average
2	7206.000	36.84	15.03	51.87	74.00	22.13	Peak
3	16639.200	20.67	26.69	47.36	54.00	6.64	Average
4	16639.200	34.29	26.69	60.98	74.00	13.02	Peak





No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	7206.000	25.59	15.03	40.62	54.00	13.38	Average
2	7206.000	35.91	15.03	50.94	74.00	23.06	Peak
3	15460.800	23.26	24.62	47.88	54.00	6.12	Average
4	15460.800	36.41	24.62	61.03	74.00	12.97	Peak

4.3 6 dB Emission Bandwidth

Serial Number:	2EOC-1	Test Date:	2023/12/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Report No.: CR231272455-00A

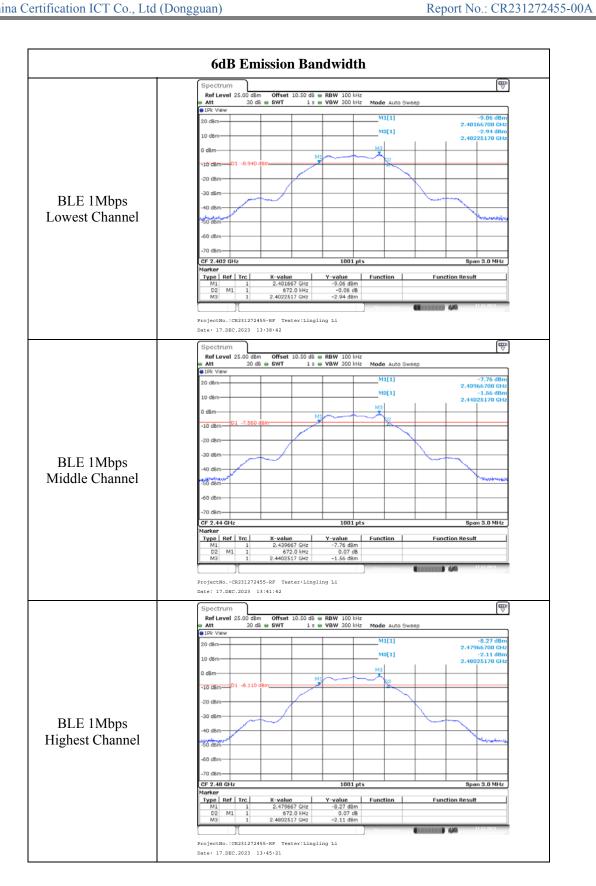
Environmental Conditions:							
Temperature: $(^{\circ}\mathbb{C})$	17	Relative Humidity: (%)	40	ATM Pressure: (kPa)	101.54		

Test Equipment List and Details:

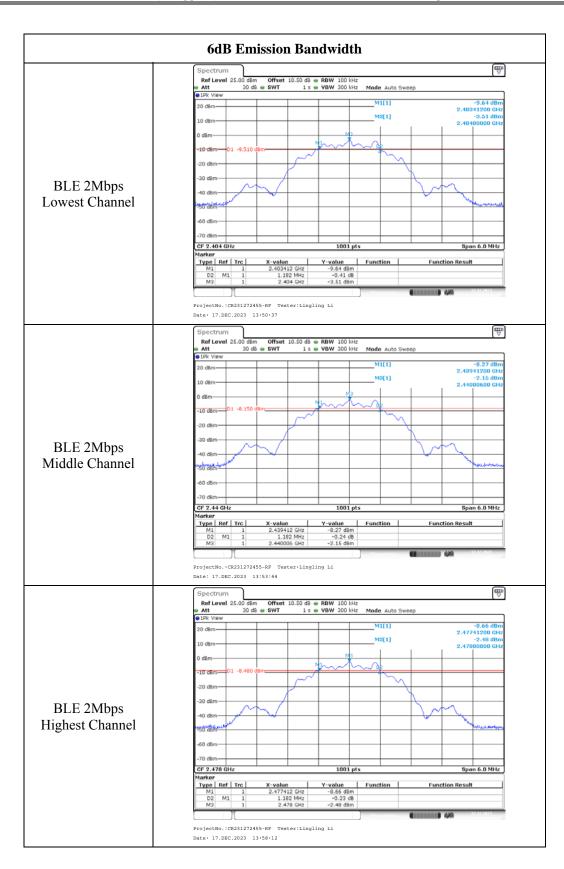
16st Equipment List and Details.						
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	
R&S	Spectrum Analyzer	FSV40	101590	2023/11/16	2024/11/15	
eastsheep	Coaxial Attenuator	2W-SMA-JK- 18G	21060301	Each time	N/A	
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A	

^{*} 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 Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
	2402	0.672	≥0.5
BLE 1Mbps	2440	0.672	≥0.5
	2480	0.672	≥0.5
	2404	1.182	≥0.5
BLE 2Mbps	2440	1.182	≥0.5
	2478	1.182	≥0.5



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4.4 Maximum Conducted Output Power

Serial Number:	2EOC-1	Test Date:	2023/12/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Report No.: CR231272455-00A

Environmental Conditions:							
Temperature: (°C)	17	Relative Humidity: (%)	40	ATM Pressure: (kPa)	101.54		

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date		
Anritsu	Power Meter	ML2495A	1106009	2023/8/4	2024/8/3		
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A		
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A		
Anritsu	Pulse Power Sensor	MA2411A	10780	2023/8/4	2024/8/3		

^{*} 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 Modes	Test Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)	Limit (dBm)
	2402	-2.56	≪30
BLE 1Mbps	2440	-1.2	€30
	2480	-1.71	≤30
	2404	-2.55	€30
BLE 2Mbps	2440	-1.19	€30
	2478	-1.57	≤30

4.5 Maximum power spectral density

Serial Number:	2EOC-1	Test Date:	2023/12/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Report No.: CR231272455-00A

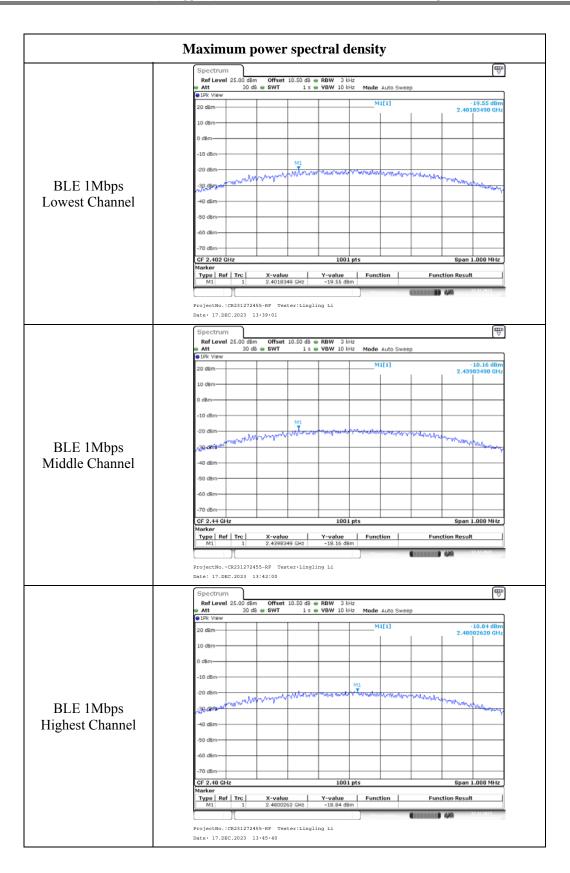
Environmental	Conditions:				
Temperature: (°C)	17	Relative Humidity: (%)	40	ATM Pressure: (kPa)	101.54

Test Equipment List and Details:

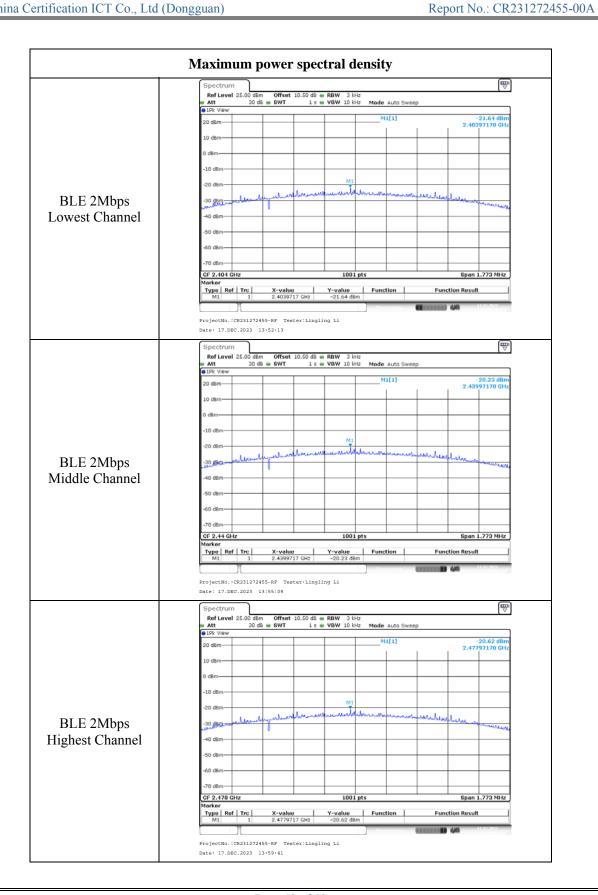
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101590	2023/11/16	2024/11/15
eastsheep	Coaxial Attenuator	2W-SMA-JK- 18G	21060301	Each time	N/A
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A

^{*} 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 Modes	Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
	2402	-19.55	≤8.00
BLE 1Mbps	2440	-18.16	≤8.00
	2480	-18.84	≤8.00
	2404	-21.64	≤8.00
BLE 2Mbps	2440	-20.23	≤8.00
	2478	-20.62	≤8.00



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4.6 100 kHz Bandwidth of Frequency Band Edge

Serial Number:	2EOC-1	Test Date:	2023/12/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

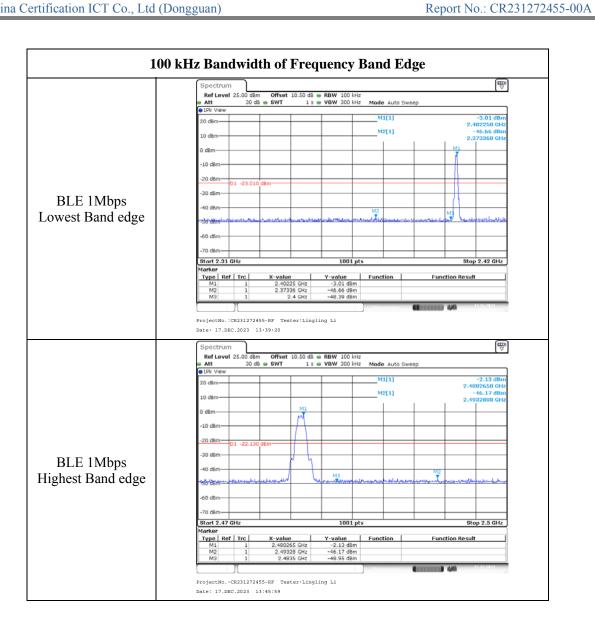
Report No.: CR231272455-00A

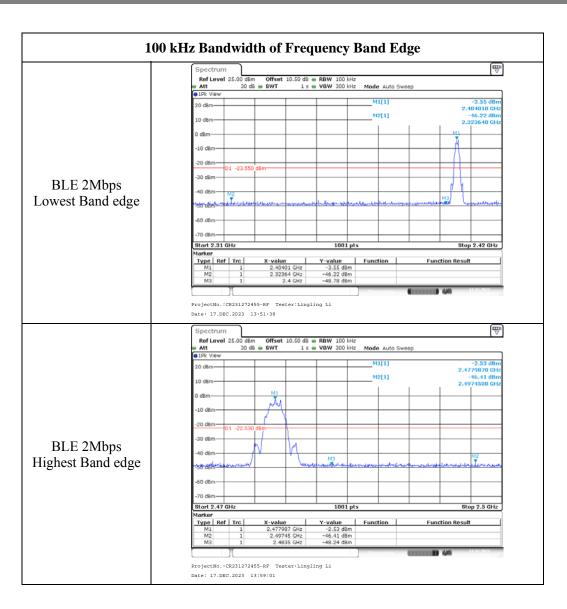
Environmental	Conditions:				
Temperature: $(^{\circ}\mathbb{C})$	17	Relative Humidity: (%)	40	ATM Pressure: (kPa)	101.54

Test Equipment List and Details:

	Bist dire B ttdiist				
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101590	2023/11/16	2024/11/15
eastsheep	Coaxial Attenuator	2W-SMA-JK- 18G	21060301	Each time	N/A
zhuoxiang	Coaxial Cable	SMA-178	211001	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).





4.7 Duty Cycle

Serial Number:	2EOC-1	Test Date:	2023/12/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	pass

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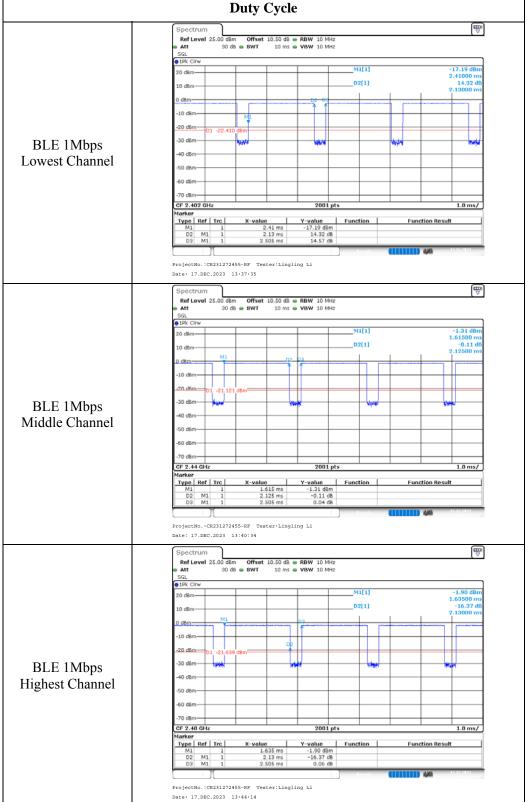
Environmental	Conditions:				
Temperature: $(^{\circ}\mathbb{C})$	17	Relative Humidity: (%)	40	ATM Pressure: (kPa)	101.54

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101590	2023/11/16	2024/11/15
eastsheep	Coaxial Attenuator	2W-SMA-JK- 18G	21060301	Each time	N/A
zhuoxiang	Coaxial Cable	SMA-178	211001	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 Modes	Test Frequency (MHz)	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	VBW Setting (kHz)
BLE 1Mbps	2402	2.13	2.505	85.03	469.48	1
BLE 1Mbps	2440	2.125	2.505	84.83	470.59	1
BLE 1Mbps	2480	2.13	2.505	85.03	469.48	1
BLE 2Mbps	2404	1.07	1.88	56.91	934.58	1
BLE 2Mbps	2440	1.07	1.88	56.91	934.58	1
BLE 2Mbps	2478	1.07	1.88	56.91	934.58	1



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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.

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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 -0.5dBm (0.89 mW). [(max. power of channel, mW)/(min. test separation distance, mm)][$\sqrt{f(GHz)}$] =0.89/5*($\sqrt{2}$.480) = 0.3< 3.0

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

6. EUT PHOTOGRAPHS		
Please refer to the attachment CR231272455-EXP E CR231272455-INP EUT INTERNAL PHOTOGRAD	UT EXTERNAL PHOTOGRAPHS and PHS	

7. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231272455-00A-TSP TEST SETUP PHOTOGRAPHS.

==== END OF REPORT ====