FCC PART 15.247 TEST REPORT

On Behalf of

Bettear Accessibility Technologies Development Ltd.

33 Ha Barzel, Tel Aviv, Israel

FCC ID: 2BOBX-BRTX

Model: B-RTX

Apr. 24, 2025

Equipment Type: This Report Concerns: □ Original Report **B-RTX** Auracast Transceiver LBilio 281 La **Test Engineer: Report Number:** QCT25CR-0027E-01 **Test Date:** Mar. 4~Apr. 24, 2025 Vincent Yang Reviewed By: Kendy Wang Approved By: Prepared By: Shenzhen QC Testing Laboratory Co., Ltd. East of 1/F., Building E, Xinghong Science Park, No.111, Shuiku Road, Fenghuanggang, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China Tel: 0755-23008269 Fax: 0755-23726780

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Revision History of This Test Report

Report Number	Description	Issued Date
QCT25CR-0027E-01	Initial Issue	2025-4-24
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1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Description:	B-RTX Auracast Transceiver
Model No.:	B-RTX(E) CHILLIAN COLOR CHILLIAN CHILLI
Model Difference:	N/A STATE OF THE S
Tested Model:	B-RTX FROM STATE OF THE STATE O
Sample(s) Status:	Engineer sample
Packet Type:	Bluetooth LE(1Mbps)
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	
Channel separation:	2MHz ATT CONTROL OF ATT ATT ATT ATT ATT ATT ATT ATT ATT AT
Modulation type:	GFSK CHI SHE SO CHE SHE SO CHE SHE SO STATE SHE SHE SHE SHE SHE
Antenna Type:	Metal Antenna
Antenna gain:	3.76dBi
Power supply:	Input: DC 5V Charging Output: DC 3.7V battery
Trade Mark:	Bettear & C.
Applicant:	Bettear Accessibility Technologies Development Ltd.
Address:	33 Ha Barzel, Tel Aviv, Israel
Manufacturer:	Shenzhen Xinweike Electronics Co. Ltd
Address:	A2 building, the first Industrial Road of Xinwei Community,Fuyong street, Bao'an District, Shenzhen City, China
Sample No.:	Y25A0027E01WC

Note: *1This information provided by Manufacturer, SZ QC Lab is not responsible for the accuracy of this information.



1.2 System Test Configuration

1.2.1 Channel List

Operation Frequency each of channel										
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency			
1	2402 MHz	116	2422 MHz	21	2442 MHz	31	2462 MHz			
	2404 MHz	912	2424 MHz	22,5	2444 MHz	32° ×	2464 MHz			
* 3° 0°	2406 MHz	¹ 13 0	2426 MHz	o 23 K	2446 MHz	(2) X33 C	2466 MHz			
15 4 6	2408 MHz	6 14 M	2428 MHz	24 24	2448 MHz	34	2468 MHz			
5.00	2410 MHz	15	2430 MHz	25	2450 MHz	6 35° gr	2470 MHz			
6,5	2412 MHz	16 %	2432 MHz	26,00	2452 MHz	36	2472 MHz			
	2414 MHz	47	2434 MHz	27 5	2454 MHz	37 °	2474 MHz			
1 8 ° 6	2416 MHz	18 18 NO	2436 MHz	<u>28</u> 28	2456 MHz	€ 38 °	2476 MHz			
9.0	2418 MHz	6 19°	2438 MHz	29 0	2458 MHz	39	2478 MHz			
£ 10 m	2420 MHz	20	2440 MHz	300	2460 MHz	40	2480 MHz			

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel Channel	Frequency C
The lowest channel	2402MHz
The middle channel	2440MHz 5
The Highest channel	2480MHz (5)

1.2.2 EUT Exercise Software

Customers can burn fixed frequency programs, switch channels by buttons, and set power levels to default values

1.2.3 Support Equipment

Manufacturer	Description	Model	Remark
S S MI STEEL S	Adapter	MDY-11-EF	THE SOURCE STREET

1.2.4 Test mode and test voltage

Transmitting mode: Keep the EUT in continuously transmitting

Test voltage: DC 5V (Powered by adapter)

1.3 Test Facility

Test Firm: Shenzhen QC Testing Laboratory Co., Ltd.

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements This approval result is accepted by MRA of APLAC.

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

CNAS - Registration No.: L8464

The EMC Laboratory has been accredited by CNAS, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

A2LA Certificate Number: 6759.01

The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 561109

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission.

IC Registration Number: 29628

CAB identifier: CN0141

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.

1.4 Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	±1.42 x10-4%
RF output power, conducted	±1.06dB
Power Spectral Density, conducted	±1:06dB
Unwanted Emissions, conducted	**************************************
AC Power Line Conducted Emission	±1.80dB
Radiated Spurious Emission test (9kHz-30MHz)	±2.66dB
Radiated Spurious Emission test (30MHz-1000MHz)	±4.04dB
Radiated Spurious Emission test (1000MHz-18000MHz)	£4.70 dB
Radiated Spurious Emission test (18GHz-40GHz)	±4,80dB
Temperature of the second of t	±0.8°C,
Humidity of street of the street of	±3.2% (5) (8)
DC and low frequency voltages	±0.1%
Time Time South So	
Duty cycle Control of the second of the seco	

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

2. Summary of Test Results

Test Item	Section	Result
Antenna Requirement	FCC part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	FCC part 15.207	Pass
Conducted Peak Output Power	FCC part 15.247 (b)(3)	Pass
Channel Bandwidth & 99% Occupied Bandwidth	FCC part 15.247 (a)(2)	Pass
Power Spectral Density	FCC part 15.247 (e)	Pass &
Band Edge Color	FCC part 15.247(d)	Pass
Spurious Emissions	FCC part 15.205/15.209	Pass

Note: 1. Pass: The EUT complies with the essential requirements in the standard.

- 2.Test according to ANSI C63.10:2013
- 3. All indications of Pass/Fail in this report are opinions expressed by Shenzhen QC Testing Laboratory Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.

3. List of Test and Measurement Instruments

3.1 Conducted Emission Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due		
SIN THE	EMI Test Receiver	Rohde&Schwarz	ESIB 7	2277573376	2025.03.13	2026.03.14		
2	EMI Test Receiver	Rohde&Schwarz	ESCI3	101820	2024.08.06	2025.08.05		
3	Artificial Mains Network	SCHWARZBECK	NSLK8126	8126200	2024.08.06	2025.08.05		
4	PULSE LIMITER	Rohde&Schwarz	ESH3-Z2	100058	2025.03.13	2026.03.14		
Cond	Conducted Emission Measurement Software: TS+ JS32-CE Ver 5.0.0							

3.2 Radiated Emission Test

ltem	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1.0	EMI Test Receiver	Rohde&Schwarz	ESIB 7	2277573376	2025.03.13	2026.03.14
20	EMI Test Receiver	Rohde&Schwarz	ESPI	101131	2025.03.13	2026.03.14
3.	Spectrum Analyzer	Rohde&Schwarz	FSV 40	101458	2025.03.13	2026.03.14
4.	TRILOG Broadband Test-Antenna	SCHWARZBECK	VÚLB9168	VULB9168-588	2025.03.13	2026.03.14
5,5	Loop Antenna	EMCO	6502	21335	2025.03.13	2026.03.14
6.5	horn antenna	SCHWARZBECK	BBHA9120D	2069	2025.03.13	2026.03.14
7 ?	Horn Antenna	COM-MW	ZLB7-18-40G -950	12221225	2024.08.10	2026.08.09
8.	Pre-amplifier	MITEQ ()	TTA0001-18	2063645	2025.03.13	2026.03.14
9.45	Pre-amplifier	COM-MW	DLAN-18000 -40000-02	10229104	2025.03.13	2026.03.14
10.	966 Camber	ZhongYU	9*6*6		2023.05.08	2026.05.07
110	Bandstop filter	Kangmaiwei	ZBSF6-C2400- 2483.5	11210688	2025.03.13	2026.03.14
12	High frequency cable	TIMES Microwave Ststems	SFT205-NMRA NM 18G	20202030-001	THE PERSON	
13	Low frequency cable	TIMES Microwave Ststems	SFT205PUR-N MRANM	558700-0001	Section of the second	

3.3 RF Conducted test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
	Wideband Radio Communication Tester	Rohde & Schwarz	© CW500 514 6514	151583	2024.03.14	2025.03.13
\$ 2 .	MXA Signal Analyzer	Keysighte	N9020A	MY51281805	2024.03.14	2025.03.13
3.	Signal Generator	Agilent	N5182A	MY50141563	2024.03.14	2025.03.13
4.	RF Automatic Test System	MW TELEVISION	MW100-RFCB/ MW100-PSB	MW2007004	2024.03.14	2025.03.13

RF Conducted Measurement Software: MTS 8310 Ver 2.0.0.0

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
\$ 1.40°	Wideband Radio Communication Tester	Rohde & Schwarz	CW500	151583	2025.03.13	2026.03.14
2.	MXA Signal Analyzer	Keysighte 5	N9020A	MY51281805	2025.03.13	2026.03.14
3.	Signal Generator	Agilent & &	N5182A	MY50141563	2025.03.13	2026.03.14
4. E	RF Automatic Test System	S MW S	MW100-RFCB/ MW100-PSB	MW2007004	2025.03.13	2026.03.14

RF Conducted Measurement Software: MTS 8310 Ver 2.0.0.0

4. Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

EUT Antenna: The Ant is Metal t antenna, the best case gain of the antenna is 3.76dBi, reference to the Internal photo for details.

5. Conducted Emissions

5.1 Applicable Standard

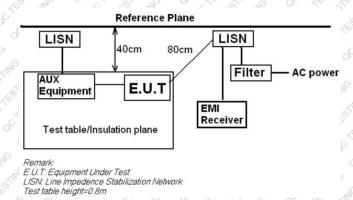
FCC Part15 C Section 15.207

5.2 Limit

Y,		Limit (c	dΒμV)
	Frequency range (MHz)	Quasi-peak	Average
5	0.15-0.5 (Fig. 1)	66 to 56*	56 to 46*
	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	56	46
N	5-30	51 A 60 CT 51 A	50° 51° 51° 51° 51° 51° 51° 51° 51° 51° 51

Note *: The level decreases linearly with the logarithm of the frequency

5.3 Test setup



5.4 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz RBW=9 kHz, VBW=30 kHz, Sweep time=auto

5.5 Test procedure

- 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
- 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
- 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

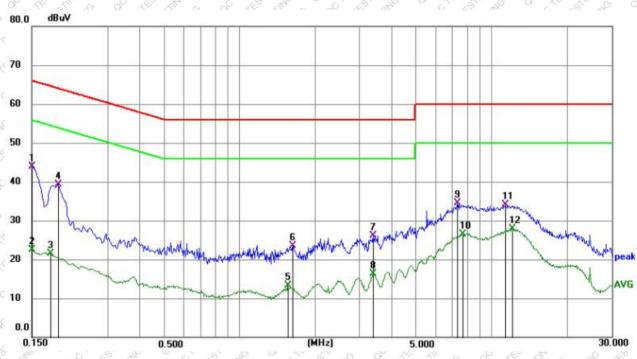
5.6 Test Data

Temperature	21 °C (5) (5)	Humidity	52% (4) (5)
ATM Pressure	101.1kPa	Antenna Gain	3.76dBi
Test by	LBi Li	Test result	PASS OF THE STREET

Measurement data:

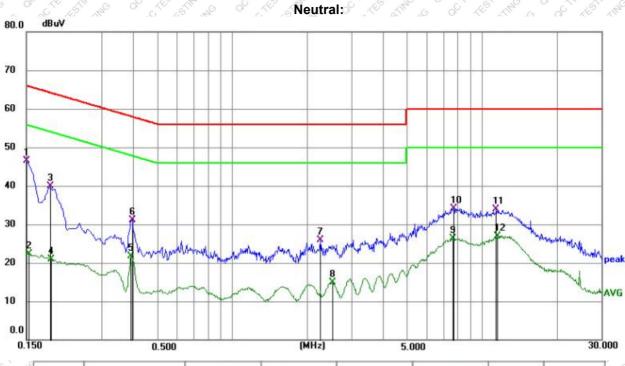
Pre-scan all test modes, found worst case at BLE 1Mbps 2402MHz, and so only show the test result of BLE 1Mbps 2402MHz

Line:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	0.1500	33.36	10.59	43.95	66.00	-22.05	QP
2	0.1500	11.89	10.59	22.48	56.00	-33.52	AVG
3	0.1770	10.89	10.57	21.46	54.63	-33.17	AVG
4	0.1905	28.72	10.57	39.29	64.01	-24.72	QP
5	1.5585	2.61	10.67	13.28	46.00	-32.72	AVG
6	1.6305	12.85	10.67	23.52	56.00	-32.48	QP
7	3.3990	15.49	10.71	26.20	56.00	-29.80	QP
8	3.3990	5.50	10.71	16.21	46.00	-29.79	AVG
9	7.3400	23.72	10.73	34.45	60.00	-25.55	QP
10	7.6865	15.81	10.74	26.55	50.00	-23.45	AVG
11	11.3680	23.24	10.88	34.12	60.00	-25.88	QP
12	12.0430	17.00	10.89	27.89	50.00	-22.11	AVG





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	0.1500	35.97	10.59	46.56	66.00	-19.44	QP
2	0.1532	11.73	10.59	22.32	55.82	-33.50	AVG
3	0.1860	29.32	10.57	39.89	64.21	-24.32	QP
4	0.1874	10.41	10.57	20.98	54.15	-33.17	AVG
5	0.3930	11.04	10.61	21.65	48.00	-26.35	AVG
6	0.3975	20.57	10.61	31.18	57.91	-26.73	QP
7	2.2559	15.27	10.71	25.98	56.00	-30.02	QP
8	2.5260	4.19	10.75	14.94	46.00	-31.06	AVG
9	7.6370	15.39	10.84	26.23	50.00	-23.77	AVG
10	7.7225	23.34	10.84	34.18	60.00	-25.82	QP
11	11.4130	23.00	10.98	33.98	60.00	-26.02	QP
12	11.5525	15.89	10.98	26.87	50.00	-23.13	AVG

Notes

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak

6. Conducted Peak Output Power

6.1 Applicable Standard

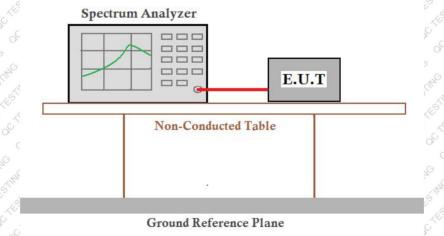
FCC Part15 C Section 15.247 (b)(3)

6.2 Limit

According to 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.

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signalling 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 transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

6.3 Test setup



6.4 Test Procedure

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.

6.5 Test Data

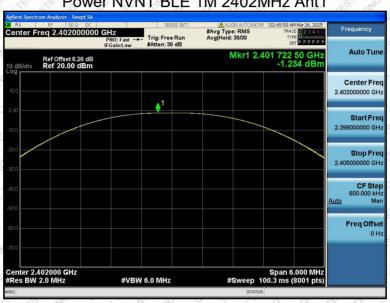
Temperature	23.2 C	Humidity	48%
ATM Pressure	101.1kPa 💍 🖒 🖑	Antenna Gain	3.76dBi
Test by	LBi La	Test result	PASS

Please refer to following table and plots.

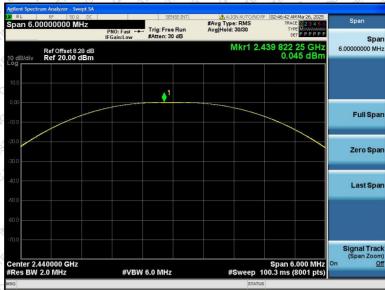
Output Power:

Modulation	Frequency (MHz)	Conducted Peak Power (dBm)	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]
S ISIN NO OC	2402	رِيَّ 1.234 وَيَ	£30° c~	2.526	
BLE 1Mbps	2440	0.045	<u></u>	3.805	€36 €
of the time	2480	-0.481	© ≤30 M	3.279	≤36

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1



Power NVNT BLE 1M 2480MHz Ant1



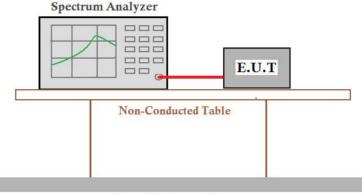
7. Channel Bandwidth & 99% Occupied Bandwidth

7.1 Applicable Standard FCC Part15 C Section 15.247 (a)(2)

7.2 Limit

The minimum 6 dB bandwidth shall be 500 kHz.

7.3 Test setup



Ground Reference Plane

7.4 Test Procedure

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

7.5 Test Data

0	Temperature	23.2 °C	Humidity	48%
	ATM Pressure	101.1kPa	Antenna Gain	3.76dBi
1/4	Test by	LBILL STATE	Test result	PASS

Please refer to following table and plots.

DTS Bandwidth:

3	Modulation	CH No.	Frequency (MHz)	DTS Bandwidth (MHz)	Limit (MHz)	Verdict
6	STIME TO OF Y	Lowest	2402	5 0.736 S	0.5	PASS
,	BLE 1Mbps	Middle	2440	(%) x 0.740 (%) x	0.5	PASS O
(STAS STAN	Highest	2480	0.740	0.5	PASS

99% Occupied Bandwidth:

Modulation	CH No.	Frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)	Verdict
STEET THE CO	Lowest	2402	1.0728	The state of the	PASS C
BLE 1Mbps	Middle Middle	2440	1.0517	or chi Tight William	PASS
	Highest	2480 J	1.0736	6 6 KE STA	PASS

DTS Bandwidth:

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



99% Occupied Bandwidth:

OBW NVNT BLE 1M 2402MHz Ant1



OBW NVNT BLE 1M 2440MHz Ant1



OBW NVNT BLE 1M 2480MHz Ant1



8. Power Spectral Density

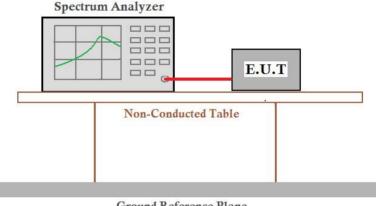
8.1 Applicable Standard

FCC Part15 C Section 15.247 (e)

8.2 Limit

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

8.3 Test setup



Ground Reference Plane

8.4 Test Procedure

Refer to KDB558074 D01 15.247 Meas Guidance v05r02

8.5 Test Data

Temperature	23.2°C	Humidity	48% 5 6 6 6
ATM Pressure	101,1kPa	Antenna Gain	3.76dBi
Test by	LBi Li & King King of	Test result	PASS

Please refer to following table and plots.

Modulation	Test channel	Power Spectral Density (dBm/3kHz)	Limit(dBm/3kHz)	Result
CO THE THE ST	Lowest	613.49 ST S	THE STAN SO OF THE	STATE OF
BLE 1Mbps	Middle	بِ بِنَّ بِهِ £ 12.47° بِيْ الْمِيْ ال	8.00	Pass
THE CONTRACTOR ASS	Highest	- 12.61° (4° 51°)	OF THE STIME TO	OF THE THE

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1



PSD NVNT BLE 1M 2480MHz Ant1



9. Spurious Emission in Non-restricted & restricted Bands

9.1 Conducted Emission Method

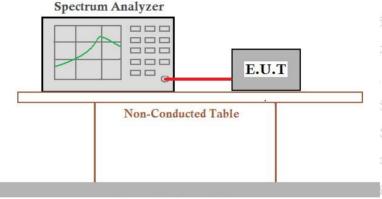
9.1.1 Applicable Standard

FCC Part15 C Section 15.247 (d)

9.1.2 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

9.1.3 Test setup



Ground Reference Plane

9.1.4 Test Procedure

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Position the EUT without connection to measurement instrument. Turn on the EUT and connect its
 antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured
 frequency within its operating range, and make sure the instrument is operated in its linear range.
- Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency spanincluding 100 kHz bandwidth from band edge.
- Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- Repeat above procedures until all measured frequencies were complete.

9.1.5 Test Data

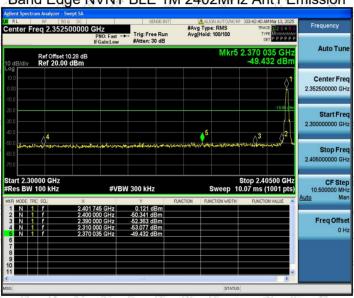
Temperature	23.2 °C	Humidity	48%
ATM Pressure	101.1kPa	Antenna Gain	3.76dBj
Test by	LBibli (Comment of the comment of t	Test result	PASS

Please refer to following plots.

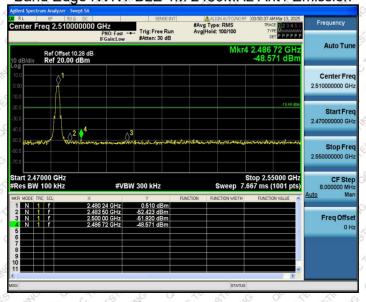
Band Edge:

5	Modulation	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
	BLE 1Mbps	Lowest	2402	-49.43	20.0	Pass
2	DEE MIDDS	Highest	2480	-48.57	6 -20 start	Pass

Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission





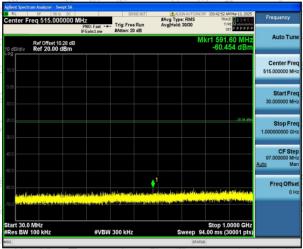
Conducted RF Spurious Emission:

Colladoted IXI	Opurious Linis	31011.0	0 60	0 12 7	c' . G' . G
Modulation Frequence (MHz)		FreqRange (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
	STITUTE OF THE STATE OF THE STA	30~1000	60.45 K	-20 🔑	Pass
ESTAND OF	Lowest	1000~26500	€ 50.67 ° ×	5 -20 C	Pass
BLE 1Mbps	Middle	30~1000	-60.48	€ 20° €	Pass
BLE HVIDDS	Middle	1000~26500	o -50.55 ·	£20, £	Pass
No of the s	Highest	30~1000	-60.19	-20 5	Pass A
STING OF THE	Highest	1000~26500	_50.51 K	-20	Pass A

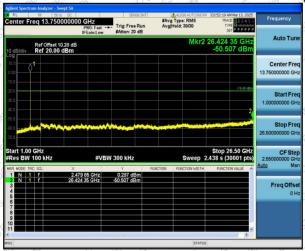
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission(30M-1G)



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission(1G-26.5G)



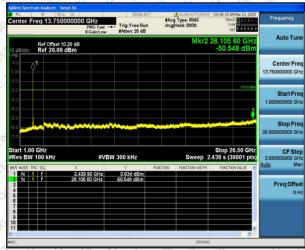
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission(30M-1G)



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission(1G-26.5G





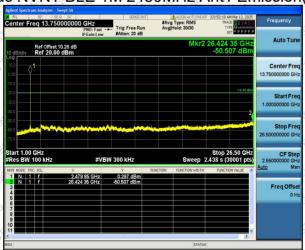
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref.



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission(30M-1G)



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission(1G-26.5G)



9.2 Radiated Emission Method

9.2.1 Applicable Standard

FCC Part15 C Section 15.209 and 15.205

9.2.2 Limit

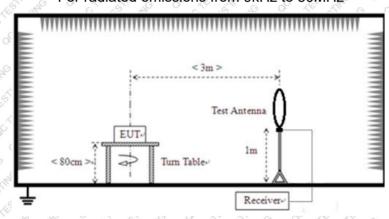
Frequency	Limit (uV/m)	Value	Measurement Distance
0.009MHz-0.490MHz	2400/F(KHz)	© QP	300m / S
0.490MHz-1.705MHz	24000/F(KHz)	QP O	(5) 30m (5) 18 C
1.705MHz-30MHz	5 75 30 5 5 S	QP S	20m 20m 20m 20m

7 71 0		(()	- 6, 10 6 1	
Frequency	Field Strengths Limits (µV/m at 3 m)	Field Strengths Limits (dBµV/m at 3 m)	Remark	
30 - 88	100	40.0	Quasi-peak Quasi-peak	
88 – 216	150	43.5	Quasi-peak	
216 – 960	1 200 P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	46.0	Quasi-peak	
Above 960	6 500 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	54.0 [5]	Quasi-peak	
Above 1GHz		74.0 £ £	Peak	
Above IGHZ	A CONTRACTOR	54.0	Average Average	

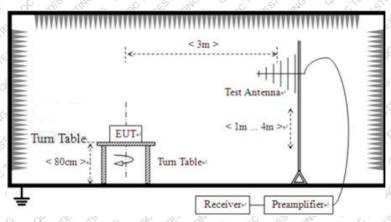
Note: dBµV/m =20log(µV/m)

9.2.3 Test setup

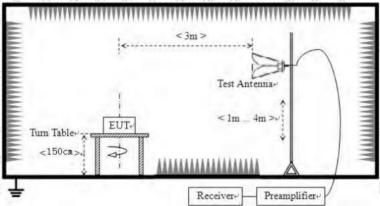
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



9.2.4 EMI Test Receiver Setup

Frequency	RBW	VBW	IF B/W	Measurement
9KHz-150KHz	200Hz	600Hz	The State of the state of	QP QP
150KHz-30MHz	9KHz	30KHz	ST 10 10 10 10 1	QP QP A
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP (P)
Above 1 GHz	1 MHz	3 MHz		Peak &
Above I GHZ	1 MHz	€10 Hz		Average

Remark: For the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission test in these three bands are based on measurements employing an average detector.

9.2.5 Test procedure

- The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna
 was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to
 360 degrees to find the maximum reading.

- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

9.2.6 Test Data

Temperature	24.3 °C	Humidity	52%
ATM Pressure	101.1kPa	Antenna Gain	3.76dBi
Test by	LBi Li	Test result	PASS COLLEGE STATES OF

Remarks:

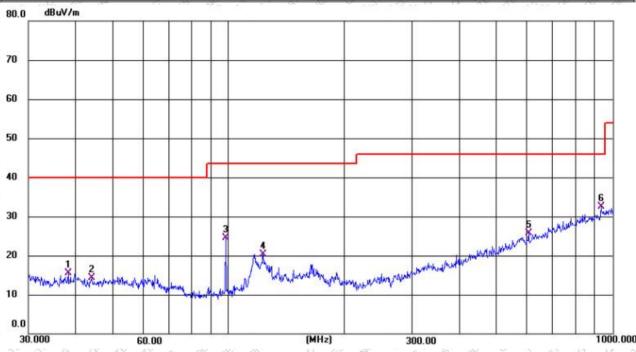
- 1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.
- 2. Data of measurement within frequency range 9kHz-30MHz, 18-26GHz are the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured, so test data does not present in this report.

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Below 1GHz

Pre-scan all test modes, found worst case at BLE 1Mbps:2402MHz, and so only show the test result of BLE 1Mbps:2402MHz.

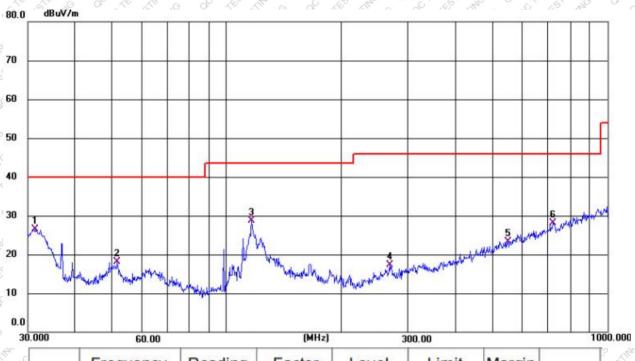
3	Temperature	24.3°C	Humidity	52 % ()
	ATM Pressure	101,1kPa	Antenna Gain	3.76dBi
	Test by	LBi Li	Polarization:	Horizontal (



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.0916	29.93	-14.50	15.43	40.00	-24.57	QP
2	44.1048	28.89	-14.67	14.22	40.00	-25.78	QP
3	98.3313	42.72	-18.30	24.42	43.50	-19.08	QP
4	122.8555	36.18	-15.79	20.39	43.50	-23.11	QP
5	605.5530	32.80	-7.00	25.80	46.00	-20.20	QP
6 *	934.7266	34.60	-2.07	32.53	46.00	-13.47	QP



Temperature	24.3 °C 6 6	Humidity	52 %
ATM Pressure	101/1kPa	Antenna Gain	3.76dBii
Test by	LBi Li Jan San San San San San San San San San S	Polarization:	Vertical Company



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	31.4267	41.67	-15.24	26.43	40.00	-13.57	QP
2	51.6434	32.91	-14.84	18.07	40.00	-21.93	QP
3	116.2748	46.05	-17.34	28.71	43.50	-14.79	QP
4	268.0620	33.31	-16.00	17.31	46.00	-28.69	QP
5	547.8656	31.60	-8.28	23.32	46.00	-22.68	QP
6	721.5993	32.57	-4.45	28.12	46.00	-17.88	QP



Shenzhen QC Testing Laboratory Co., Ltd.

Above 1GHz

Test channel: Lowest channel

Frequency (MHz)	Read Level (dBµV)	polarization	Factor (dB/m)	Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector
2310	54.22	S H A	-11.46	42.76	74,5	-31.24	peak
2310	56.99	CINC V CONTRACTOR	-11.46	45.53	9 74 K	-28.47	peak
2390	61.47	TO SE	-11.16	50.31	5 TA 6	-23.69	peak
2390	62.32	College Asignature	-11.16	51.16	£ 74 0	-22.84	peak
4804	66.14	O HAR IST	-5.68	60.46	6 74 JA	_c -13.54	peak
4804	50.14	Ho K	-5.68	6 44.46	54	-9.54	AVG
4804	62.35		-5.68	56.67	74	-17.33	peak
4804	47.98	STAN AND A	-5.68	42.30	54	-11.70	AVG &

Test channel: Middle channel

Frequency (MHz)	Read Level (dBµV)	polarization	Factor (dB/m)	Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector
4880	64.29	ST HE WE	-5.45	58.84	74	-15.16	peak <
4880	43.86		-5.45	38.41	54		AVG
4880	66.14	THE VOCA	-5.45	60.69	74	/ ₂ <-13.31	peak
4880	43.59		-5.45	38.14	54	-15.86	AVG

Test channel: Highest channel

Frequency (MHz)	Read Level (dBµV)	polarization	Factor (dB/m)	Level Limit Line (dBµV/m) (dBµV/m		Margin (dB)	Detector
2483.5	71.93	CHE SHE	-10.81	61.12	74	-12.88	peak
2483.5	55.28	S AH SING	10.81	44.47	54	-9.53	AVG A
2483.5	68.74	N KENT	-10.81	57.93°	74	-16.07	peak
2483.5	56.32	THE YOUR	-10.81	45.51	54 CK	-8.49	AVG
2500	63.54	HA C	-10.75	52.79	74	-21,21	peak
2500	64.18	of Children	-10.75	53.43	74 74 NO	-20.57	peak
4960	57.81	C HAR	-5.23	52,58	6 74	-21.42	peak of
4960	56.51	STAND V OF	-5.23	51.28	74	-22.72	peak

Remarks:

- 1. Level =Receiver Read level + Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. If the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in above table if the peak value complies with average limit.

W 6 6	THE	END	OF	TEST	REPO	ĎRT	
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ddress: Fast of 1/F. Building F. Xinghong Science Park No 111. Shuiku Road, Fenghuanggang, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China