

TEST REPORT

Report No.: BCTC2209021003E

Applicant: Shen Zhen Bale Electronics Co.,Ltd

Product Name: smart bracelet

Model/Type reference: EP01

Tested Date: 2022-09-21 to 2022-09-28

Issued Date: 2022-09-29

Shenzhen BCTC Testing Co., Ltd.



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FCC ID: 2AMAA-EP01

Product Name: smart bracelet

Trademark: N/A

Model/Type reference: EPO

EP02, EP03, KS01, KS02, KS03, KS05, W11, W12, JL01, JL03, JL05, JL08

Prepared For: Shen Zhen Bale Electronics Co.,Ltd

Address: Room B335, Wanzhongcheng Clothing Wholesale Market, Xinniu Community,

Minzhi Street, Longhua District, Shenzhen, China

Manufacturer: Shen Zhen Bale Electronics Co.,Ltd

Address: Room B335, Wanzhongcheng Clothing Wholesale Market, Xinniu Community,

Minzhi Street, Longhua District, Shenzhen, China

Prepared By: Shenzhen BCTC Testing Co., Ltd.

Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road,

Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Sample Received Date: 2022-09-21

Sample tested Date: 2022-09-21 to 2022-09-28

Issue Date: 2022-09-29

Report No.: BCTC2209021003E

Test Standards: FCC Part15.247 ANSI C63.10-2013

Test Results: PASS

Remark: This is Bluetooth BLE radio test report.

Tested by:

Eric Yang/Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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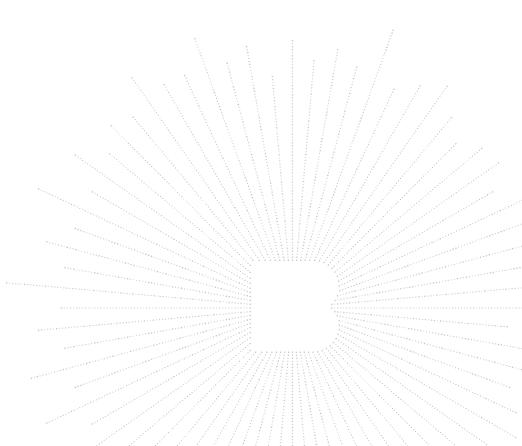
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(Note: N/A Means Not Applicable)



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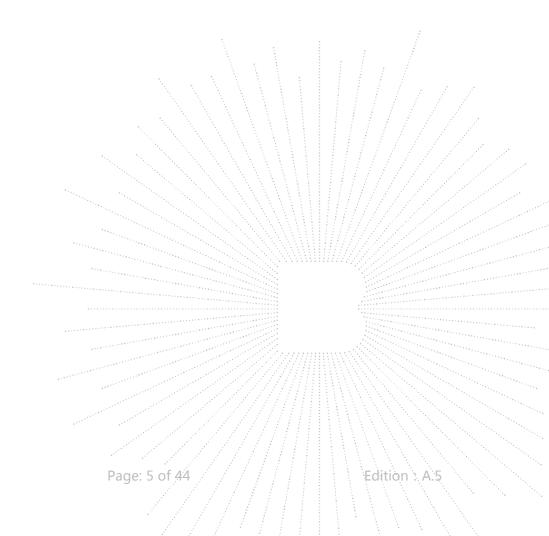
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1. Version

Report No. Issue Date		Description	Approved
BCTC2209021003E 2022-09-29		Original	Valid



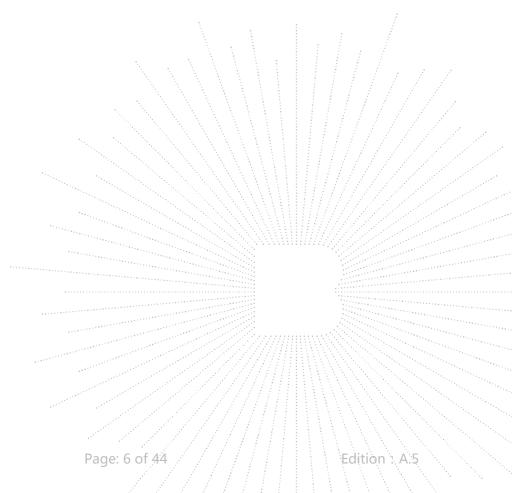
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Test Summary 2.

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No.	Results
1	Conducted Emission	15.207	PASS
2	6dB Bandwidth	15.247 (a)(2)	PASS
3	Peak Output Power	15.247 (b)	PASS
4	Radiated Spurious Emission	15.247 (d), 15.205	PASS
5	Power Spectral Density	15.247 (e)	PASS
6	Restricted Band of Operation	15.205	PASS
7	Band Edge (Out of Band Emissions)	15.247(d)	PASS
8	Antenna Requirement	15.203	PASS



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3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(9KHz-30MHz)	U=3.7dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission (150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U≟0.59°C

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4. Product Information And Test Setup

4.1 Product Information

Model/Type reference: EP01

EP02, EP03, KS01, KS02, KS03, KS05, W11, W12, JL01, JL03, JL05, JL08

Model differences: All the model are the same circuit and RF module, except model names.

Bluetooth Version:: 5.1

Operation Frequency: Bluetooth: 2402-2480MHz

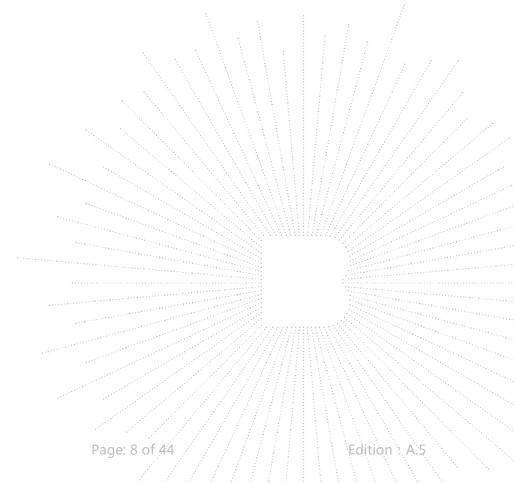
Type of Modulation: Bluetooth: GFSK

Number Of Channel: 40CH

Antenna installation: MULTILAYER CERAMIC ANTENNA

Antenna Gain: 2.12 dBi

Ratings: DC 3.7V From battery, DC 5V From adapter



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4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission:



Radiated Spurious Emission



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-2	Adapter	N/A	BCTC001	N/A	Auxiliary
			Ţ	1	. /

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	0.5M	USB cable unshielded

Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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4.4 Channel List

Channel List						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
01	2402	11	2422	21	2442	
02	2404	12	2424	22	2444	
03	2406	13	2426	23	2446	
~	~	~	~	~	~	
09	2418	19	2438	39	2478	
10	2420	20	2440	40	2480	

4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

For All Mode	For All Mode Description		
Mode 1	CH01		
Mode 2	CH20	GFSK	
Mode 3	CH40		
Mode 4	Link mode (Conducted emission &Radiated emission)		

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

(2) Fully-charged battery is used during the test

4.6 Table of parameters of text software setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version	DTM	
Frequency	2402 MHz 2440 MHz	2480 MHz
Parameters	DEF	DEF

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5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

IC Registered No.: 23583

5.2 Test Instrument Used

Conducted Emissions Test							
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.		
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023		
LISN	R&S	ENV216	101375	May 24, 2022	May 23, 2023		
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\		
Attenuator	\	10dB DC-6GHz	1650	May 24, 2022	May 23, 2023		

RF Conducted Test						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
Power Metter	Keysight	E4419		May 24, 2022	May 23, 2023	
Power Sensor (AV)	Keysight	E9300A		May 24, 2022	May 23, 2023	
Signal Analyzer 20kHz-26.5G Hz	Keysight	N9020A	MY49100060	May 24, 2022	May 23, 2023	
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40	1	May 24, 2022	May 23, 2023	

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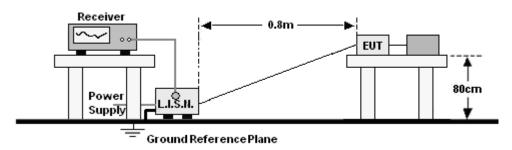


Radiated Emissions Test (966 Chamber)						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
966 chamber ChengYu		966 Room	966	Jun. 06. 2020	Jun. 05, 2023	
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023	
Receiver	R&S	ESRP	101154	May 24, 2022	May 23, 2023	
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 24, 2022	May 23, 2023	
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 24, 2022	May 23, 2023	
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 26, 2022	May 25, 2023	
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 06, 2022	Jun. 05, 2023	
Horn Antenn (18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 06, 2022	Jun. 05, 2023	
Amplifier (18GHz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 26, 2022	May 25, 2023	
Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	May 26, 2022	May 25, 2023	
RF cables1 (9kHz-30MHz)	Huber+Suhnar	9kHz-30MHz	B1702988-000 8	May 26, 2022	May 25, 2023	
RF cables2 (30MHz-1GHz)	Huber+Suhnar	30MHz-1GHz	1486150	May 26, 2022	May 25, 2023	
RF cables3 (1GHz-40GHz)	Huber+Suhnar	1GHz-40GHz	1607106	May 26, 2022	May 25, 2023	
Power Metter	Keysight	E4419	1 1	May 26, 2022	May 25, 2023	
Power Sensor (AV)	Keysight	E9300A	, I, \	May 26, 2022	May 25, 2023	
Signal Analyzer 20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 26, 2022	May 25, 2023	
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40		May 26, 2022	May 25, 2023	
Software	Frad	EZ-EMC	FA-03A2 RE	/////////////////////////////////////		



6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

Fraguency (MU=)	Limit	(dBuV)
Frequency (MHz)	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Notes

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The lower limit shall apply at the transition frequencies.

6.3 Test procedure

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

- a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 EUT Operating Conditions

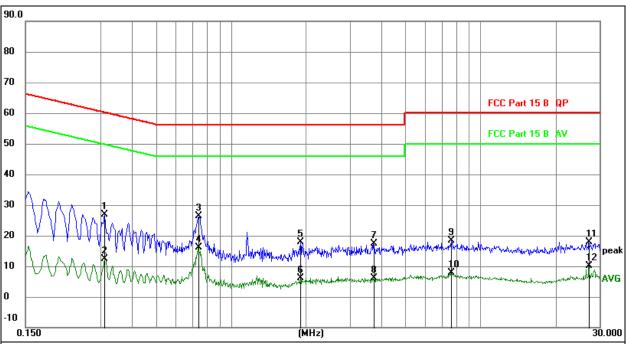
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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6.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 4	Test Voltage:	AC 120V/60Hz



Remark:

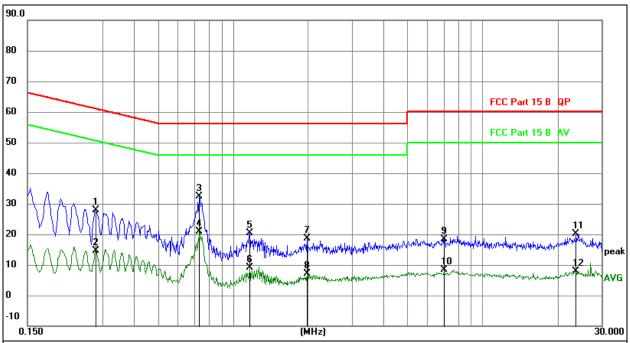
- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.
- 3. Measurement = Reading Level + Correct Factor
- 4. Over = Measurement Limit

0 (Saromone E	Reading	Correct	Measure-			
No.	Mk.	Freq.	Level	Factor	ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.3116	7.11	19.77	26.88	59.93	-33.05	QP
2		0.3116	-7.41	19.77	12.36	49.93	-37.57	AVG
3	*	0.7391	6.67	19.74	26.41	56.00	-29.59	QP
4		0.7391	-3.64	19.74	16.10	46.00	-29.90	AVG
5		1.8979	-1.92	19.87	17.95	56.00	-38.05	QP
6		1.8979	-13.84	19.87	6.03	46.00	-39.97	AVG
7		3.7198	-2.73	20.07	17.34	56.00	-38.66	QP
8		3.7198	-13.86	20.07	6.21	46.00	-39.79	AVG
9		7.6060	-1.70	20.20	18.50	60.00	-41.50	QP
10		7.6060	-12.44	20.20	7.76	50.00	-42.24	AVG
11		27.1270	-2.66	20.52	17.86	60.00	-42.14	QP
12		27.1270	-10.31	20.52	10.21	50.00	-39.79	AVG

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Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.
 Measurement = Reading Level + Correct Factor
 Over = Measurement Limit

No. Mk. Freq. Reading Level Correct Factor Measurement Limit Over 1 0.2803 8.08 19.78 27.86 60.81 -32.95 QP 2 0.2803 -5.06 19.78 14.72 50.81 -36.09 AVG 3 * 0.7313 12.71 19.74 32.45 56.00 -23.55 QP 4 0.7313 1.08 19.74 20.82 46.00 -25.18 AVG 5 1.1657 0.68 19.78 20.46 56.00 -35.54 QP 6 1.1657 -10.58 19.78 9.20 46.00 -36.80 AVG 7 1.9801 -1.32 19.88 18.56 56.00 -37.44 QP 8 1.9801 -12.86 19.88 7.02 46.00 -38.98 AVG 9 6.9878 -1.70 20.18 18.48 60.00 -41.52 QP 10 <	4. OVE	ı – ivicas	ulellielli - Lii	IIII		<u> </u>			
1 0.2803 8.08 19.78 27.86 60.81 -32.95 QP 2 0.2803 -5.06 19.78 14.72 50.81 -36.09 AVG 3 * 0.7313 12.71 19.74 32.45 56.00 -23.55 QP 4 0.7313 1.08 19.74 20.82 46.00 -25.18 AVG 5 1.1657 0.68 19.78 20.46 56.00 -35.54 QP 6 1.1657 -10.58 19.78 9.20 46.00 -36.80 AVG 7 1.9801 -1.32 19.88 18.56 56.00 -37.44 QP 8 1.9801 -12.86 19.88 7.02 46.00 -38.98 AVG 9 6.9878 -1.70 20.18 18.48 60.00 -41.52 QP 10 6.9878 -11.91 20.18 8.27 50.00 -41.73 AVG 11 23.5112 -0.44 20.52 20.08 60.00 -39.92 QP	No.	Mk.	Freq.	_			Limit	Over	
2 0.2803 -5.06 19.78 14.72 50.81 -36.09 AVG 3 * 0.7313 12.71 19.74 32.45 56.00 -23.55 QP 4 0.7313 1.08 19.74 20.82 46.00 -25.18 AVG 5 1.1657 0.68 19.78 20.46 56.00 -35.54 QP 6 1.1657 -10.58 19.78 9.20 46.00 -36.80 AVG 7 1.9801 -1.32 19.88 18.56 56.00 -37.44 QP 8 1.9801 -12.86 19.88 7.02 46.00 -38.98 AVG 9 6.9878 -1.70 20.18 18.48 60.00 -41.52 QP 10 6.9878 -11.91 20.18 8.27 50.00 -41.73 AVG 11 23.5112 -0.44 20.52 20.08 60.00 -39.92 QP			MHz		dB	dBuV	dBuV	dB	Detector
3 * 0.7313 12.71 19.74 32.45 56.00 -23.55 QP 4 0.7313 1.08 19.74 20.82 46.00 -25.18 AVG 5 1.1657 0.68 19.78 20.46 56.00 -35.54 QP 6 1.1657 -10.58 19.78 9.20 46.00 -36.80 AVG 7 1.9801 -1.32 19.88 18.56 56.00 -37.44 QP 8 1.9801 -12.86 19.88 7.02 46.00 -38.98 AVG 9 6.9878 -1.70 20.18 18.48 60.00 -41.52 QP 10 6.9878 -11.91 20.18 8.27 50.00 -41.73 AVG 11 23.5112 -0.44 20.52 20.08 60.00 -39.92 QP	1		0.2803	8.08	19.78	27.86	60.81	-32.95	QP
4 0.7313 1.08 19.74 20.82 46.00 -25.18 AVG 5 1.1657 0.68 19.78 20.46 56.00 -35.54 QP 6 1.1657 -10.58 19.78 9.20 46.00 -36.80 AVG 7 1.9801 -1.32 19.88 18.56 56.00 -37.44 QP 8 1.9801 -12.86 19.88 7.02 46.00 -38.98 AVG 9 6.9878 -1.70 20.18 18.48 60.00 -41.52 QP 10 6.9878 -11.91 20.18 8.27 50.00 -41.73 AVG 11 23.5112 -0.44 20.52 20.08 60.00 -39.92 QP	2		0.2803	-5.06	19.78	14.72	50.81	-36.09	AVG
5 1.1657 0.68 19.78 20.46 56.00 -35.54 QP 6 1.1657 -10.58 19.78 9.20 46.00 -36.80 AVG 7 1.9801 -1.32 19.88 18.56 56.00 -37.44 QP 8 1.9801 -12.86 19.88 7.02 46.00 -38.98 AVG 9 6.9878 -1.70 20.18 18.48 60.00 -41.52 QP 10 6.9878 -11.91 20.18 8.27 50.00 -41.73 AVG 11 23.5112 -0.44 20.52 20.08 60.00 -39.92 QP	3	*	0.7313	12.71	19.74	32.45	56.00	-23.55	QP
6 1.1657 -10.58 19.78 9.20 46.00 -36.80 AVG 7 1.9801 -1.32 19.88 18.56 56.00 -37.44 QP 8 1.9801 -12.86 19.88 7.02 46.00 -38.98 AVG 9 6.9878 -1.70 20.18 18.48 60.00 -41.52 QP 10 6.9878 -11.91 20.18 8.27 50.00 -41.73 AVG 11 23.5112 -0.44 20.52 20.08 60.00 -39.92 QP	4		0.7313	1.08	19.74	20.82	46.00	-25.18	AVG
7 1.9801 -1.32 19.88 18.56 56.00 -37.44 QP 8 1.9801 -12.86 19.88 7.02 46.00 -38.98 AVG 9 6.9878 -1.70 20.18 18.48 60.00 -41.52 QP 10 6.9878 -11.91 20.18 8.27 50.00 -41.73 AVG 11 23.5112 -0.44 20.52 20.08 60.00 -39.92 QP	5		1.1657	0.68	19.78	20.46	56.00	-35.54	QP
8 1.9801 -12.86 19.88 7.02 46.00 -38.98 AVG 9 6.9878 -1.70 20.18 18.48 60.00 -41.52 QP 10 6.9878 -11.91 20.18 8.27 50.00 -41.73 AVG 11 23.5112 -0.44 20.52 20.08 60.00 -39.92 QP	6		1.1657	-10.58	19.78	9.20	46.00	-36.80	AVG
9 6.9878 -1.70 20.18 18.48 60.00 -41.52 QP 10 6.9878 -11.91 20.18 8.27 50.00 -41.73 AVG 11 23.5112 -0.44 20.52 20.08 60.00 -39.92 QP	7		1.9801	-1.32	19.88	18.56	56.00	-37.44	QP
10 6.9878 -11.91 20.18 8.27 50.00 -41.73 AVG 11 23.5112 -0.44 20.52 20.08 60.00 -39.92 QP	8		1.9801	-12.86	19.88	7.02	46.00	-38.98	AVG
11 23.5112 -0.44 20.52 20.08 60.00 -39.92 QP	9		6.9878	-1.70	20.18	18.48	60.00	-41.52	QP
	10		6.9878	-11.91	20.18	8.27	50.00	-41.73	AVG
12 23.5112 -12.54 20.52 7.98 50.00 -42.02 AVG	11		23.5112	-0.44	20.52	20.08	60.00	-39.92	QP
	12		23.5112	-12.54	20.52	7.98	50.00	-42.02	AVG

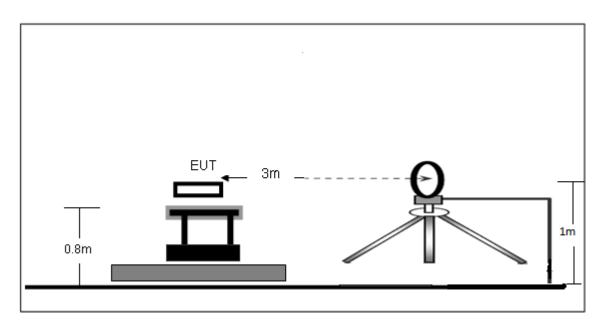
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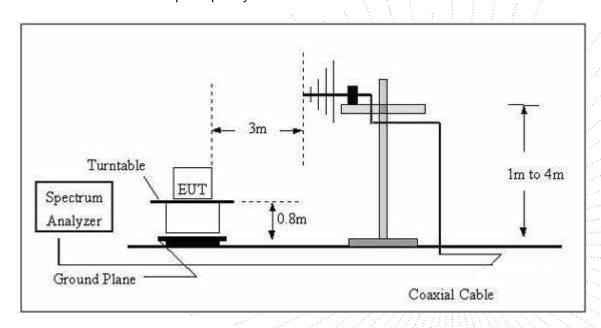
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

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



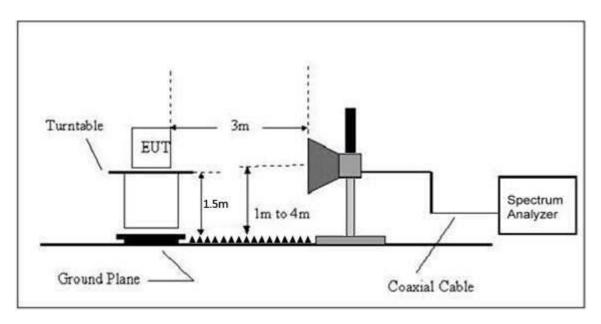
(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency	Field Strength	Distance	Field Strength Limit at 3m Distance		
(MHz)	uV/m	(m)	uV/m	dBuV/m	
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log ^{(2400/F(kHz))} + 80	
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log ^{(24000/F(kHz))} + 40	
1.705 ~ 30	30	30	100 * 30	20log ⁽³⁰⁾ + 40	
30 ~ 88	100	3	100	20log ⁽¹⁰⁰⁾	
88 ~ 216	150	3	150	20log ⁽¹⁵⁰⁾	
216 ~ 960	200	3	200	20log ⁽²⁰⁰⁾	
Above 960	500	3	500	20log ⁽⁵⁰⁰⁾	

Limits Of Radiated Emission Measurement (Above 1000MHz)

Fraguency (MHz)	Limit (dBuV/m) (at 3M)	
Frequency (MHz)	Peak	Average
Above 1000	74	

Notes:

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

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Frequency Range Of Radiated Measurement

Report No.: BCTC2209021003E

- (a) For an intentional radiator the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:
- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
- (4) If the intentional radiator operates at or above 95 GHz: To the third harmonic of the highest fundamental frequency or to 750 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
- (5) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a) (1)through (4) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this section, whichever is the higher frequency range of investigation.

7.3 Test procedure

Receiver Parameter	Setting					
Attenuation	Auto					
9kHz~150kHz	RBW 200Hz for QP					
150kHz~30MHz	RBW 9kHz for QP					
30MHz~1000MHz	RBW 120kHz for QP					

Spectrum Parameter	Setting
	RBW 1 MHz /VBW 1 MHz for Peak,
1-25GHz	
	RBW 1 MHz / VBW 10Hz for Average

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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f. 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.

Above 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c.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.
- d.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.
- e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.
- g. Test the EUT in the lowest channel, the middlest channel, the Highest channel. Note:

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

7.4 EUT operating Conditions

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

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7.5 Test Result

Below 30MHz

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Toot Voltage :	DC 2.7\/
Test Mode:	Mode 4	Test Voltage :	DC 3.7V

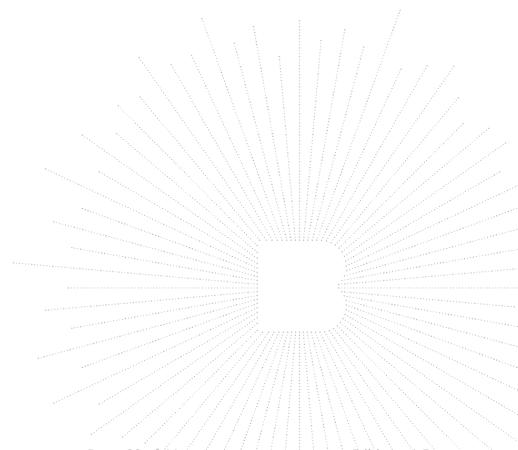
Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

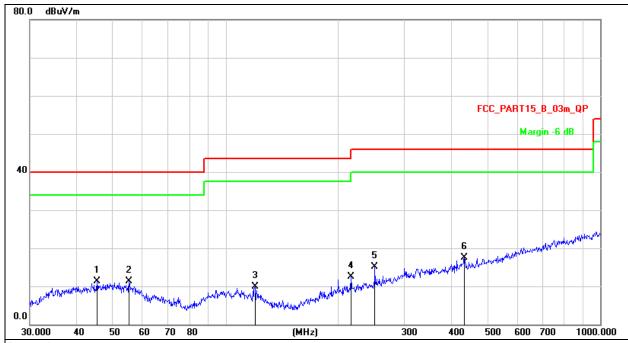


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Between 30MHz - 1GHz

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 4	Test Voltage:	DC 3.7V



Remark:

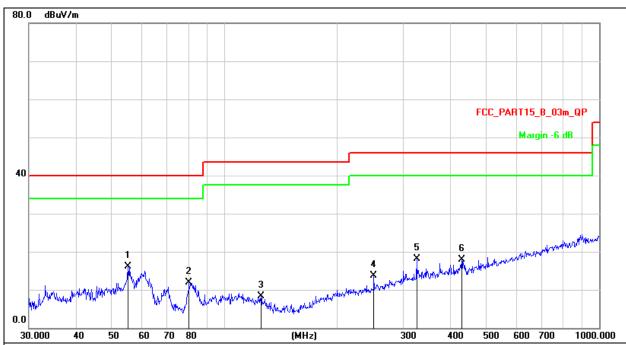
- 1. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Measurement = Reading Level + Correct Factor
- 3. Over = Measurement Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		45.3755	27.00	-15.60	11.40	40.00	-28.60	QP
2		55.2207	27.30	-15.92	11.38	40.00	-28.62	QP
3		119.8556	27.79	-17.97	9.82	43.50	-33.68	QP
4		216.0240	27.84	-15.39	12.45	46.00	-33.55	QP
5	:	250.3012	29.36	-14.18	15.18	46.00	-30.82	QP
6	* 4	434.0651	27.09	-9.51	17.58	46.00	-28.42	QP

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Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 4	Test Voltage:	DC 3.7V



Remark:

- 1. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Measurement = Reading Level + Correct Factor
- 3. Over = Measurement Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB	dBuV/m	dB/m	dB	Detector
1	*	55.2207	31.93	-15.92	16.01	40.00	-23.99	QP
2		80.3619	32.64	-20.66	11.98	40.00	-28.02	QP
3		125.0066	26.55	-18.30	8.25	43.50	-35.25	QP
4	2	250.3012	27.87	-14.18	13.69	46.00	-32.31	QP
5	;	325.5958	29.62	-11.44	18.18	46.00	-27.82	QP
6	4	129.5228	27.53	-9.59	17.94	46.00	-28.06	QP

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Between 1GHz - 25GHz

			GFSK				
Polar	Frequency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	Type
			Low chan	nel			
V	4804.00	53.29	-0.43	52.86	74.00	-21.14	PK
V	4804.00	44.81	-0.43	44.38	54.00	-9.62	AV
V	7206.00	42.62	8.31	50.93	74.00	-23.07	PK
V	7206.00	32.54	8.31	40.85	54.00	-13.15	AV
Н	4804.00	51.18	-0.43	50.75	74.00	-23.25	PK
Н	4804.00	41.45	-0.43	41.02	54.00	-12.98	AV
Н	7206.00	41.25	8.31	49.56	74.00	-24.44	PK
Н	7206.00	33.83	8.31	42.14	54.00	-11.86	AV
			Middle char	nel		•	
V	4880.00	50.81	-0.38	50.43	74.00	-23.57	PK
V	4880.00	43.23	-0.38	42.85	54.00	-11.15	AV
V	7320.00	42.15	8.83	50.98	74.00	-23.02	PK
V	7320.00	32.57	8.83	41.40	54.00	-12.60	AV
Н	4880.00	49.71	-0.38	49.33	74.00	-24.67	PK
Н	4880.00	39.66	-0.38	39.28	54.00	-14.72	AV
Н	7320.00	40.28	8.83	49.11	74.00	-24.89	PK
Н	7320.00	31.87	8.83	40.70	54.00	-13.30	AV
			High chan	nel			
V	4960.00	51.88	-0.32	51.56	74.00	-22.44	; PK
V	4960.00	42.11	-0.32	41.79	54.00	-12.21	AV
V	7440.00	43.94	9.35	53.29	74.00	-20.71	PK
V	7440.00	32.95	9.35	42.30	54.00	-11.70	AV
Н	4960.00	49.00	-0.32	48.68	74.00	-25.32	PK
Н	4960.00	39.82	-0.32	39.50	54.00	-14.50	AV
Н	7440.00	41.77	9.35	51.12	74.00	-22.88	PK
Н	7440.00	33.88	9.35	43.23	54.00	-10.77	AV

Remark:

- 1.Emission Level = Meter Reading + Factor, Factor = Antenna Factor + Cable Loss Pre-amplifier. Over= Emission Level Limit
- 2.If peak below the average limit, the average emission was no test.
- 3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
- 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

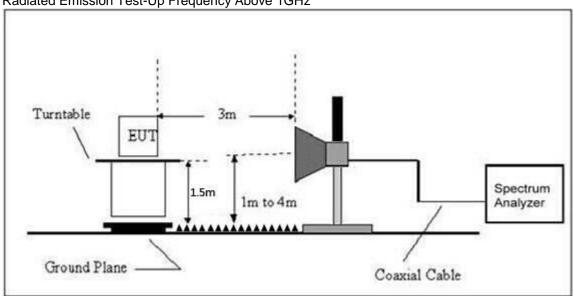
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8. Radiated Band Emission Measurement And Restricted Bands Of Operation

8.1 Block Diagram Of Test Setup

Radiated Emission Test-Up Frequency Above 1GHz



8.2 Limit

FCC Part15 C Section 15.209 and 15.205

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

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Limits Of Radiated Emission Measurement (Above 1000MHz)

Report No.:	BCTC2209021003E

Frequency (MHz)	Limit (dBuV/m) (at 3M)		
	Peak	Average	
Above 1000	74	54	

Notes:

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

8.3 Test Procedure

Receiver Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Above 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d.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.
- e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.
- g. Test the EUT in the lowest channel, the Highest channel. Note:

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

8.4 EUT Operating Conditions

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

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8.5 Test Result

	Polar (H/V)	Frequency Reading Level		Correct Factor	Measure- ment (dBuV/m)	Lim (dBu		Result	
			(dBuV/m)	(dB)	PK	PK	AV		
		Low Channel 2402MHz							
	Н	2390.00	52.52	-6.70	45.82	74.00	54.00	PASS	
GFSK	Н	2400.00	57.44	-6.71	50.73	74.00	54.00	PASS	
	V	2390.00	52.73	-6.70	46.03	74.00	54.00	PASS	
	V	2400.00	53.74	-6.71	47.03	74.00	54.00	PASS	
			Hig	h Channel 2	480MHz				
	Н	2483.50	51.26	-6.79	44.47	74.00	54.00	PASS	
	Н	2500.00	48.52	-6.81	41.71	74.00	54.00	PASS	
	V	2483.50	51.11	-6.79	44.32	74.00	54.00	PASS	
	V	2500.00	46.72	-6.81	39.91	74.00	54.00	PASS	

Remark:

1. Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Over= Emission Level - Limit

- 2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
- 3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
- 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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9. Power Spectral Density Test

9.1 Block Diagram Of Test Setup



9.2 Limit

FCC Part15 (15.247) , Subpart C							
Section	Test Item	Limit	Frequency Range (MHz)	Result			
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS			

Limits Of Radiated Emission Measurement (Above 1000MHz)

9.3 Test procedure

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

9.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

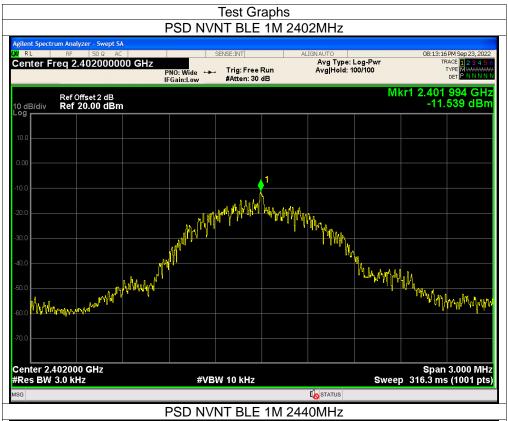
9.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%	
Pressure:	101KPa	Test Voltage:	DC 5V	

Frequency	Power Spectral Density(dBm/3kHz)	Limit (dBm/3kHz)	Result
2402 MHz	-11.54	8	PASS
2440 MHz	-11.34	8/////	PASS
2480 MHz	-11.29	8///8	PASS

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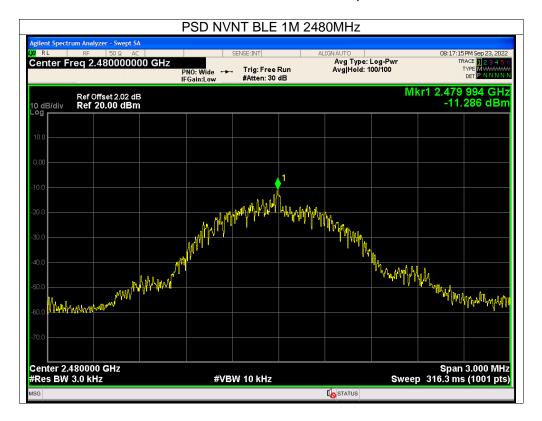


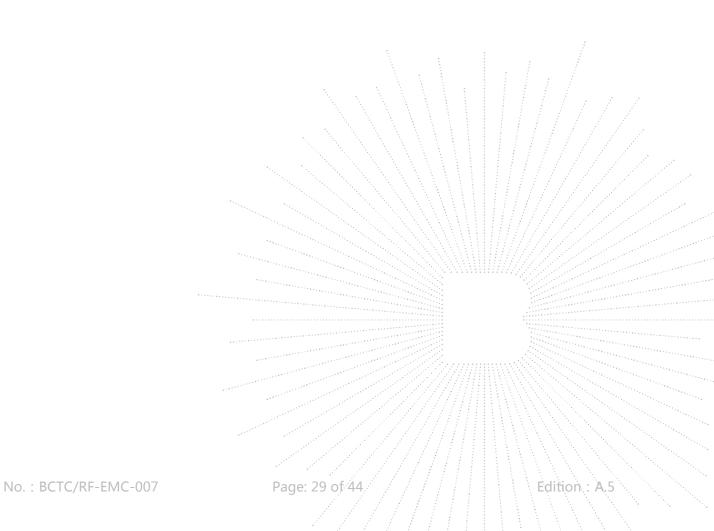




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10. Bandwidth Test

10.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

10.2 Limit

FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(a)(2)	Bandwidth	>= 500KHz (-6dB bandwidth)	2400-2483.5	PASS	

10.3 Test procedure

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. 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.

10.4 EUT operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

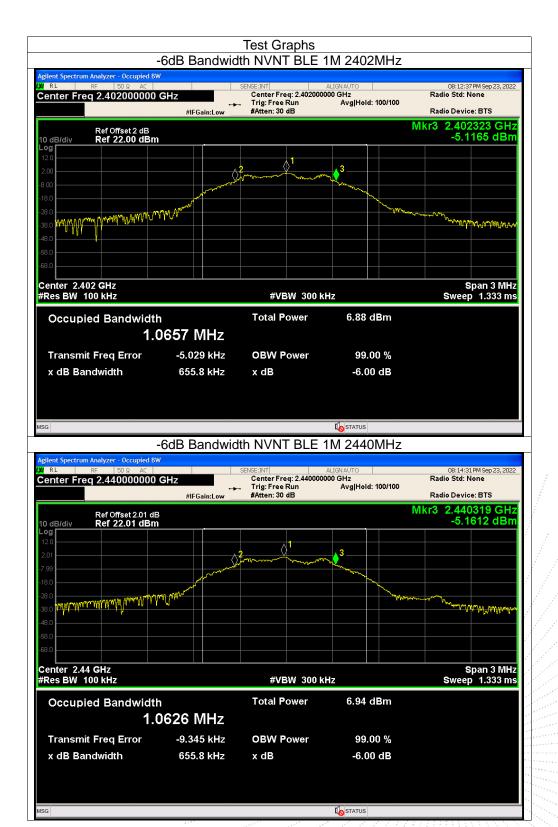
10.5 Test Result

	26 ℃	Relative Humidity:	54%	***************************************
Pressure: 1	I01KPa	Test Voltage:	DC 5V	
		111111111111111111111111111111111111111		1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1

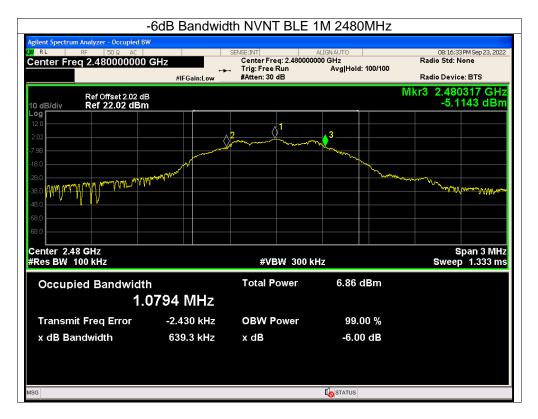
Frequency (MHz)	-6dB bandwidth (MHz)	Limit (kHz) Result
2402	0.656	500 Pass
2440	0.656	500 Pass
2480	0.639	500 Pass

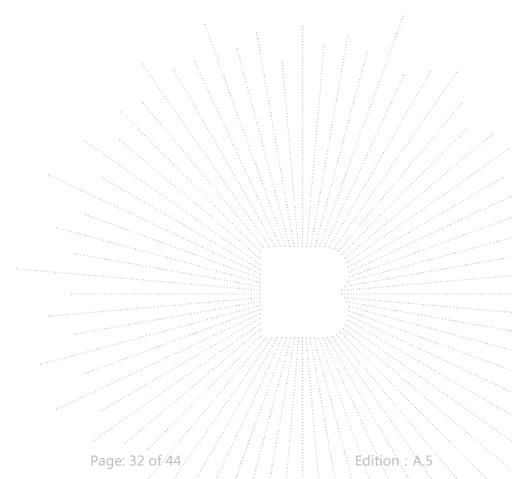
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11. Peak Output Power Test

11.1 Block Diagram Of Test Setup

EUT	POWER METER
-----	-------------

11.2 Limit

FCC Part15 (15.247) , Subpart C					
Section	Test Item Limit Frequency Range (MHz) Resul				
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS	

11.3 Test Procedure

a. The EUT was directly connected to the Power meter

11.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

11.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V

	Frequency(MHz)	Maximum Conducted Output Power(PK) (dBm)	Conducted Output Power Limit(dBm)
GFSK	2402	0.92	30
	2440	1.07	30
	2480	0.85	30

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12. 100 kHz Bandwidth Of Frequency Band Edge

12.1 Block Diagram Of Test Setup



12.2 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.

12.3 Test procedure

Using the following spectrum analyzer setting:

- a) Set the RBW = 100KHz.
- b) Set the VBW = 300KHz.
- c) Sweep time = auto couple.
- d) Detector function = peak.
- e) Trace mode = max hold.
- f) Allow trace to fully stabilize.

12.4 EUT operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

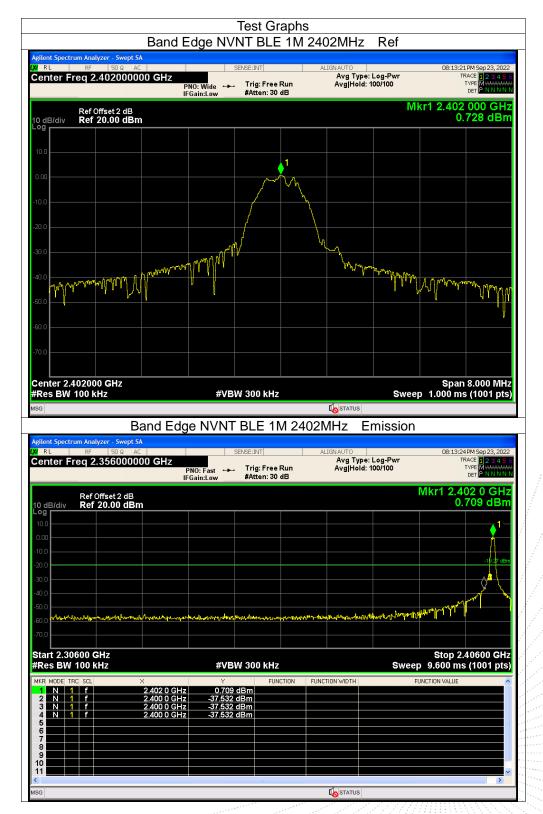
Note: Power Spectral Density(dBm)=Reading+Cable Loss

12.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%	
Pressure:	101KPa	Test Voltage:	DC 5V	***************************************

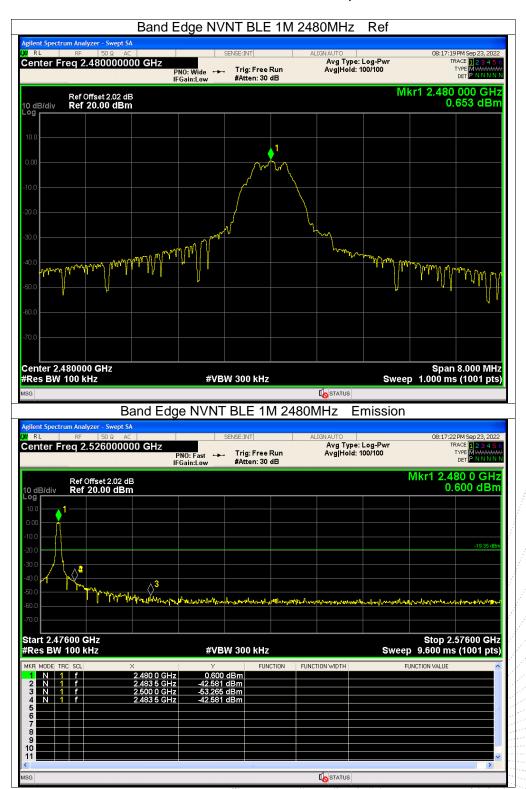
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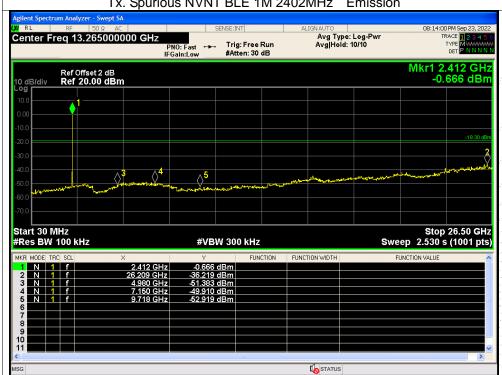


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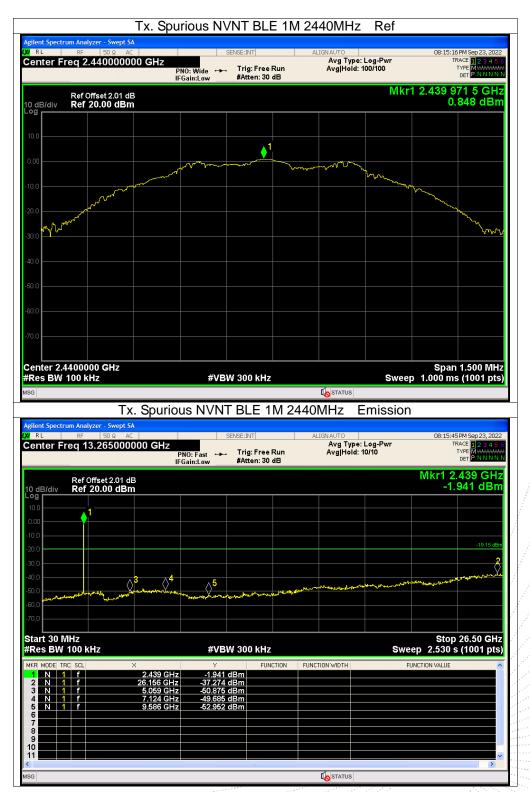
Conducted Emission Measurement





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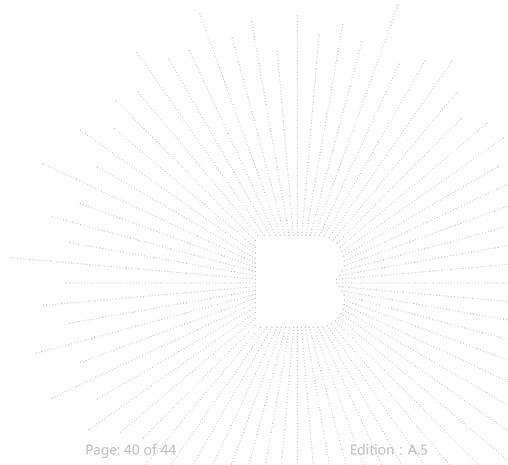
13. Antenna Requirement

13.1 Limit

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

13.2 Test Result

The EUT antenna is MULTILAYER CERAMIC ANTENNA, fulfill the requirement of this section.



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14. EUT Photographs





NOTE: Appendix-Photographs Of EUT Constructional Details

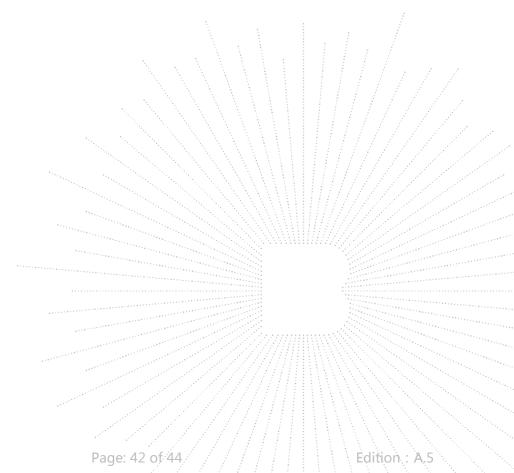
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15. EUT Test Setup Photographs

Conducted emissions

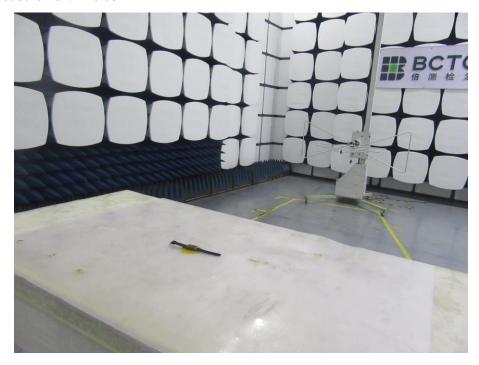




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Radiated Measurement Photos





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STATEMENT

- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without the "special seal for inspection and testing".
- 4. The test report is invalid without the signature of the approver.
- 5. The test process and test result is only related to the Unit Under Test.
- 6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
- 7. The test report without CMA mark is only used for scientific research, teaching, enterprise product development and internal quality control purposes.
- 8. The quality system of our laboratory is in accordance with ISO/IEC17025.
- 9. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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**** END ****

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