

## **TEST REPORT**

Report No.:	BCTC2401014141E
Applicant:	Shenzhen Shuye Technology Co.,Ltd.
Product Name:	Laifen Wave Electric Toothbrush
Test Model:	LFTB01-P
Tested Date:	2024-01-02 to 2024-01-16
Issued Date:	2024-01-16
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### FCC ID:2BE2Y-LFTB01

Product Name:	Laifen Wave Electric Toothbrush
Trademark:	laifen
Model/Type Reference:	LFTB01-P LFTB01-A, LFTB01-S
Prepared For:	Shenzhen Shuye Technology Co.,Ltd.
Address:	Room1301, Building T7, Qianwan 1st Road No.399, Qianhai Kerry Business Center, Nanshan, Shenzhen, China
Manufacturer:	Shenzhen Shuye Technology Co.,Ltd.
Address:	Room1301, Building T7, Qianwan 1st Road No.399, Qianhai Kerry Business Center, Nanshan, 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:	2024-01-02
Sample Tested Date:	2024-01-02 to 2024-01-16
Issue Date:	2024-01-16
Report No.:	BCTC2401014141E
Test Standards:	FCC Part15.247 ANSI C63.10-2013
Test Results:	PASS
Remark:	This is Bluetooth BLE radio test report.

Tested by:

kelsey Ton

Kelsey Tan/ 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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(Note: N/A Means Not Applicable)

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#### 1. Version

Report No.	Issue Date	Description	Approved
BCTC2401014141E	2024-01-16	Original	Valid

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#### 2. Test Summary

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:	LFTB01-P LFTB01-A, LFTB01-S
Model Differences:	The outer shell material is different, LFTB01-P is plastic material, LFTB01-S is stainless steel material, LFTB01-A is aluminum alloy material, the RF chip remains unchanged.
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	2402-2480MHz
Type of Modulation:	GFSK 1Mbps, GFSK 2Mbps,
Number Of Channel	40CH
Antenna installation:	Internal antenna
Antenna Gain:	3.12 dBi
Ratings:	USB:DC 5V
Remark:	Battery:DC 7.6V The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information.

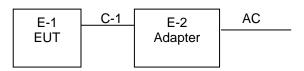
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#### 4.2 Test Setup Configuration

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-1	Laifen Wave Electric Toothbrush	laifen	LFTB01-P	LFTB01-A, LFTB01-S	EUT
E-2	Adapter	N/A	CD226	N/A	Auxiliary
					1

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A a	0.3M	DC 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	Description	Modulation Type	
Mode 1	CH01		
Mode 2	CH20	GFSK(1Mbps)	
Mode 3	CH40		
Mode 4	CH01		
Mode 5	CH20	GFSK(2Mbps)	
Mode 6	CH40		
Mode 7	Charging mode+ Link mode (Conducted Emission)		
Mode 8	Link mode (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		SecureCRT	
Frequency	2402 MHz	2440 MHz	2480 MHz
Parameters	DEF	DEF	DEF



#### 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

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

5.2	Test Instrument Used
• • •	

Conducted Emissions Test									
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.				
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024				
LISN	R&S	ENV216	101375	May 15, 2023	May 14, 2024				
Software	Frad	EZ-EMC	EMC-CON 3A1	/	\				
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	Sept. 22, 2023	Sept. 21, 2024				

	RF Conducted Test								
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.				
Power Metter	Keysight	E4419	I.	May 15, 2023	May 14, 2024				
Power Sensor (AV)	Keysight	E9300A		May 15, 2023	May 14, 2024				
Signal Analyzer20kH z-26.5GHz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024				
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024				
Radio frequency control box	MAIWEI	MW100-RFC B		\ \					
Software	MAIWEI	MTS 8310							



Radiated Emissions Test (966 Chamber01)							
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.		
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026		
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024		
Receiver	R&S	ESRP	101154	May 15, 2023	May 14, 2024		
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 15, 2023	May 14, 2024		
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 29, 2023	May 28, 2024		
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 31, 2023	May 30, 2024		
Amplifier	SKET	LAPA_01G1 8G-45dB	SK202104090 1	May 15, 2023	May 14, 2024		
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 31, 2023	May 30, 2024		
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 15, 2023	May 14, 2024		
Horn Antenn(18GH z-40GHz)	Schwarzbeck	BBHA9170	00822	May 31, 2023	May 30, 2024		
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024		
Software	Frad	EZ-EMC	FA-03A2 RE	\	$\Lambda_{j}$		

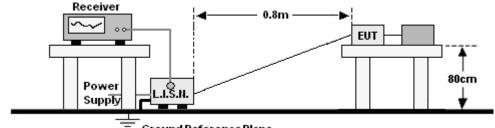
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#### 6. Conducted Emissions

#### 6.1 Block Diagram Of Test Setup



#### Ground Reference Plane

#### 6.2 Limit

	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

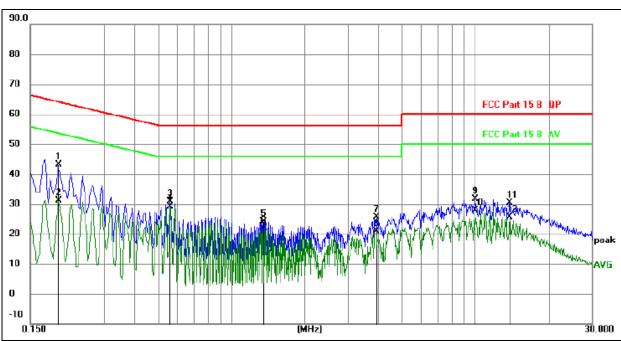
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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#### 6.5 Test Result

LFTB01-P						
Temperature:	<b>26</b> ℃	Relative Humidity:	54%			
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz			
Test Mode:	Mode 7	Polarization:	L			



#### 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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		_
		MHz		dB	dBuV	dBuV	dB	Detector	
1		0.1945	23.35	19.82	43.17	63.84	-20.67	QP	
2		0.1945	11.43	19.82	31.25	53.84	-22.59	AVG	
3		0.5611	11.09	19.84	30.93	56.00	-25.07	QP	
4	*	0.5611	9.25	19.84	29.09	46.00	-16.91	AVG	··
5		1.3450	4.23	19.95	24.18	56.00	-31.82	QP	_
6		1.3450	2.01	19.95	21.96	46.00	-24.04	AVG	
7		3.9222	4.94	20.63	25.57	56.00	-30.43	QP	
8		3.9222	0.21	20.63	20.84	46.00	-25.16	AVG	
9		10.0186	11.73	19.88	31.61	60.00	-28.39	QP	•••
10		10.0186	7.97	19.88	27.85	50.00	-22.15	AVG	
11		13.7680	10.38	19.88	30.26	60.00	-29.74	QP	- <i>n</i> .,
12		13.7680	5.75	19.88	25.63	50.00	-24.37	AVG	_``.
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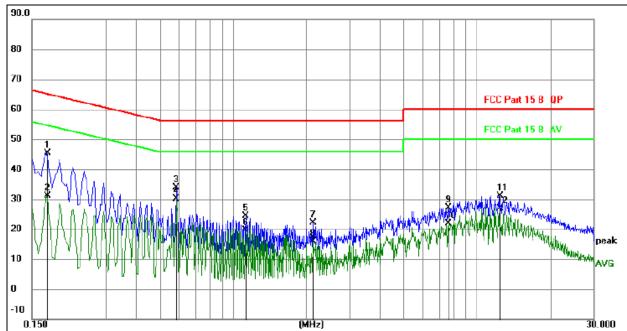
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Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 7	Polarization:	Ν



#### 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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1722	25.53	19.77	45.30	64.85	-19.55	QP
2		0.1722	11.35	19.77	31.12	54.85	-23.73	AVG
3		0.5854	14.07	19.84	33.91	56.00	-22.09	QP
4	*	0.5854	10.39	19.84	30.23	46.00	-15.77	AVG
5		1.1233	4.39	19.95	24.34	56.00	-31.66	QP
6		1.1233	-0.44	19.95	19.51	46.00	-26.49	AVG
7		2.1213	2.12	19.99	22.11	56.00	-33.89	QP
8		2.1213	-3.99	19.99	16.00	46.00	-30.00	AVG
9		7.6060	7.16	19.94	27.10	60.00	-32.90	QP
10		7.6060	1.85	19.94	21.79	50.00	-28.21	AVG
11		12.3837	11.30	19.88	31.18	60.00	-28.82	QP
12		12.3837	6.89	19.88	26.77	50.00	-23.23	AVG

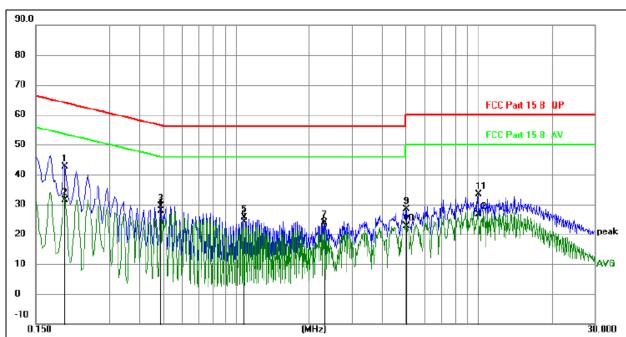
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Edition:



LFTB01-A						
Temperature:26 °CRelative Humidity:54%						
Pressure:	101KPa	Phase :	L			
Test Mode:	Mode 7	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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1965	22.73	19.82	42.55	63.76	-21.21	QP
2		0.1965	11.65	19.82	31.47	53.76	-22.29	AVG
3		0.4875	9.58	19.84	29.42	56.21	-26.79	QP
4	*	0.4875	8.00	19.84	27.84	46.21	-18.37	AVG
5		1.0770	5.73	19.95	25.68	56.00	-30.32	QP
6		1.0770	4.10	19.95	24.05	46.00	-21.95	AVG
7		2.3010	3.74	20.06	23.80	56.00	-32.20	QP
8		2.3010	1.57	20.06	21.63	46.00	-24.37	AVG
9		5.0190	7.85	20.42	28.27	60.00	-31.73	QP
10		5.0190	2.30	20.42	22.72	50.00	-27.28	AVG
11		9.9150	13.40	19.88	33.28	60.00	-26.72	QP
12		9.9150	6.73	19.88	26.61	50.00	-23.39	AVG

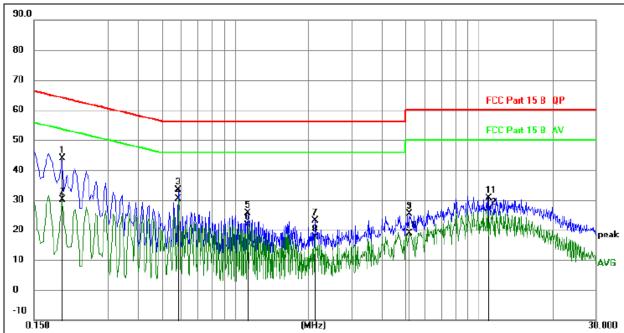
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Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Ν
Test Mode:	Mode 7	Test Voltage :	AC 120V/60Hz



#### Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.

3. Measurement = Reading Level + Correct Factor

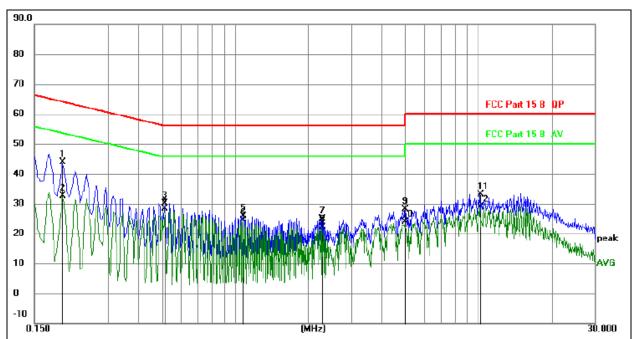
4. Over = Measurement - Limit

		Dest	0				
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		2010.					
	MHz		dB	dBuV	dBuV	dB	Detector
1	0.1945	24.00	19.82	43.82	63.84	-20.02	QP
2	0.1945	10.20	19.82	30.02	53.84	-23.82	AVG
3	0.5854	13.48	19.84	33.32	56.00	-22.68	QP
4 *	0.5854	10.48	19.84	30.32	46.00	-15.68	AVG
5	1.1233	5.67	19.95	25.62	56.00	-30.38	QP
6	1.1233	1.56	19.95	21.51	46.00	-24.49	AVG
7	2.1213	3.06	19.99	23.05	56.00	-32.95	QP
8	2.1213	-2.24	19.99	17.75	46.00	-28.25	AVG
9	5.1937	5.04	20.38	25.42	60.00	-34.58	QP
10	5.1937	-1.52	20.38	18.86	50.00	-31.14	AVG
11	10.9050	10.73	19.88	30.61	60.00	-29.39	QP
12	10.9050	6.66	19.88	26.54	50.00	-23.46	AVG

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LFTB01-S							
Temperature:	<b>26</b> °C	Relative Humidity:	54%				
Pressure:	101KPa	Phase :	L				
Test Mode:	Mode 7	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

	- 100030		1110				1 1 1 1	<i>i</i>
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1945	24.06	19.82	43.88	63.84	-19.96	QP
2		0.1945	12.69	19.82	32.51	53.84	-21.33	AVG
3		0.5128	10.25	19.84	30.09	56.00	-25.91	QP
4	*	0.5128	8.48	19.84	28.32	46.00	-17.68	AVG
5		1.0766	6.01	19.95	25.96	56.00	-30.04	QP
6		1.0766	4.53	19.95	24.48	46.00	-21.52	AVG
7		2.2726	4.84	20.05	24.89	56.00	-31.11	QP
8		2.2726	1.98	20.05	22.03	46.00	-23.97	AVG
9		5.0046	7.67	20.43	28.10	60.00	-31.90	QP
10		5.0046	3.41	20.43	23.84	50.00	-26.16	AVG
11		10.1254	13.20	19.88	33.08	60.00	-26.92	QP
12		10.1254	8.97	19.88	28.85	50.00	-21.15	AVG

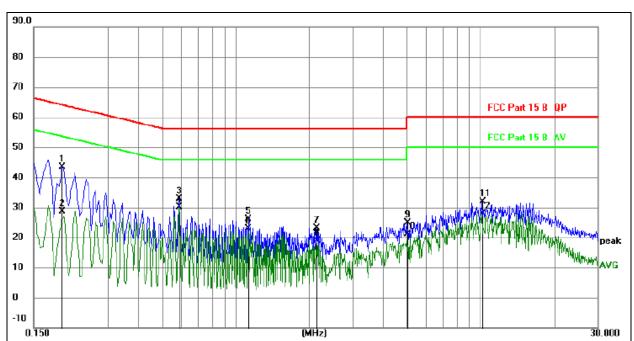
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Edition:



Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Ν
Test Mode:	Mode 7	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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1949	23.58	19.82	43.40	63.83	-20.43	QP
2		0.1949	8.88	19.82	28.70	53.83	-25.13	AVG
3		0.5865	13.05	19.84	32.89	56.00	-23.11	QP
4	*	0.5865	10.34	19.84	30.18	46.00	-15.82	AVG
5		1.1265	6.18	19.95	26.13	56.00	-29.87	QP
6		1.1265	2.86	19.95	22.81	46.00	-23.19	AVG
7		2.1345	3.16	20.00	23.16	56.00	-32.84	QP
8		2.1345	-1.13	20.00	18.87	46.00	-27.13	AVG
9		5.0190	4.48	20.42	24.90	60.00	-35.10	QP
10		5.0190	0.73	20.42	21.15	50.00	-28.85	AVG
11		10.1625	12.03	19.88	31.91	60.00	-28.09	QP
12		10.1625	7.91	19.88	27.79	50.00	-22.21	AVG

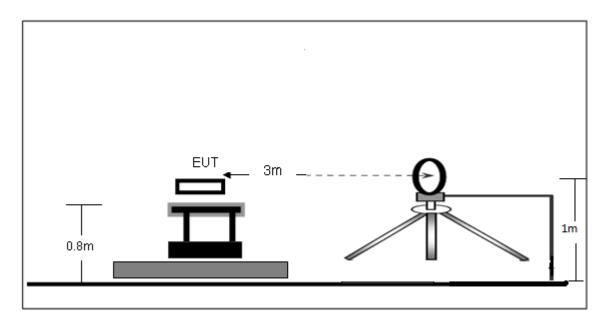
No.: BCTC/RF-EMC-005

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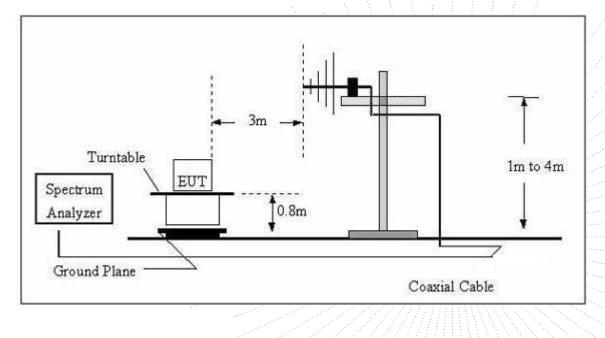


#### 7. Radiated Emissions

- 7.1 Block Diagram Of Test Setup
  - (A) Radiated Emission Test-Up Frequency Below 30MHz



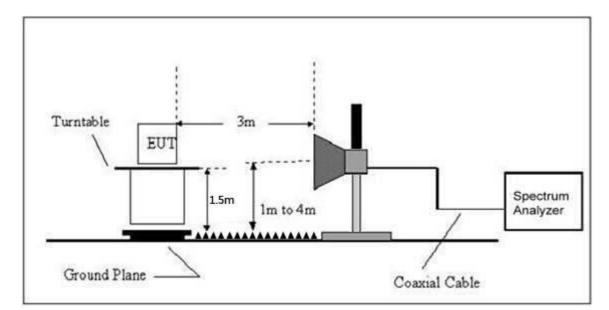




E



(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 <sup>(2400/F(kHz))</sup> + 80		
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log <sup>(24000/F(kHz))</sup> + 40		
1.705 ~ 30	30	30	100 * 30	20log <sup>(30)</sup> + 40		
30 ~ 88	100	3	100	20log <sup>(100)</sup>		
88 ~ 216	150	3	150	20log <sup>(150)</sup>		
216 ~ 960	200	3	200	20log <sup>(200)</sup>		
Above 960	500	3	500	20log <sup>(500)</sup>		

Limits Of Radiated Emission Measurement (Above 1000MHz)

	Limit (dBuV/m)	(at 3M)
Frequency (MHz)	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).

Frequency Range Of Radiated Measurement

,TC

**3**C



(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
1-25GHz	RBW 1 MHz /VBW 1 MHz for Peak, 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.

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.

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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.

#### 7.5 Test Result

#### Below 30MHz

Temperature:	26 °C	Relative Humidity:	54%	M/Z
Pressure:	101KPa	Test Voltage:	DC 7.6V	
Test Mode:	Mode 8	Test voltage.	DC 7.6V	

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

Note:

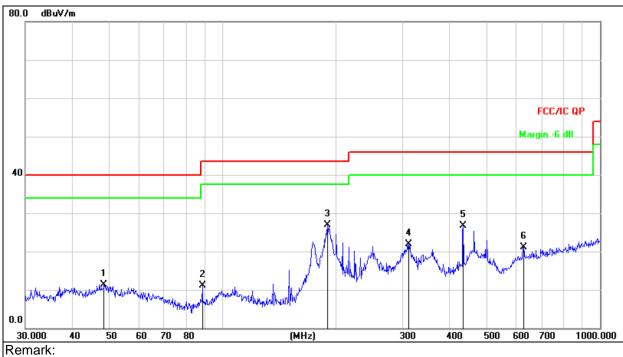
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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



Between 30MHz - 1GHz I ETRAL D

LF I BUI-P							
Temperature:	<b>26</b> ℃	Relative Humidity:	54%				
Pressure:	101KPa	Test Voltage:	DC 7.6V				
Test Mode:	Mode 8	Polarization:	Horizontal				



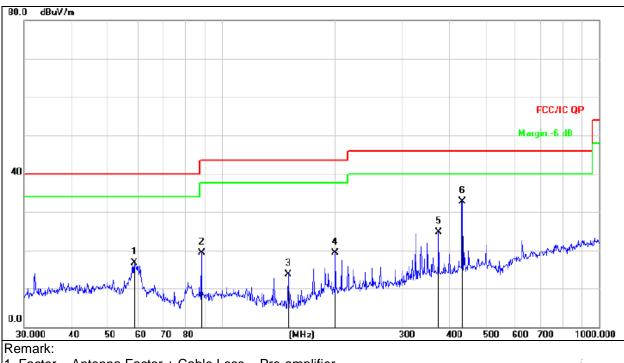
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

			0
3.	Over :	= Measurement	- Limit

		ent = Reading asurement - Li	Level + Correct mit	Factor				
N	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB	dBuV/m	dB/m	dB	Detecto
	1	48.5016	25.42	-14.02	11.40	40.00	-28.60	QP
	2	88.3421	28.92	-17.79	11.13	43.50	-32.37	QP
	3 *	189.7385	43.36	-16.48	26.88	43.50	-16.62	QP
	4	311.0867	34.77	-12.85	21.92	46.00	-24.08	QP
	5	434.0651	36.90	-10.17	26.73	46.00	-19.27	QP
	6	627.2738	27.70	-6.55	21.15	46.00	-24.85	QP



Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 7.6V
Test Mode:	Mode 8	Polarization:	Vertical



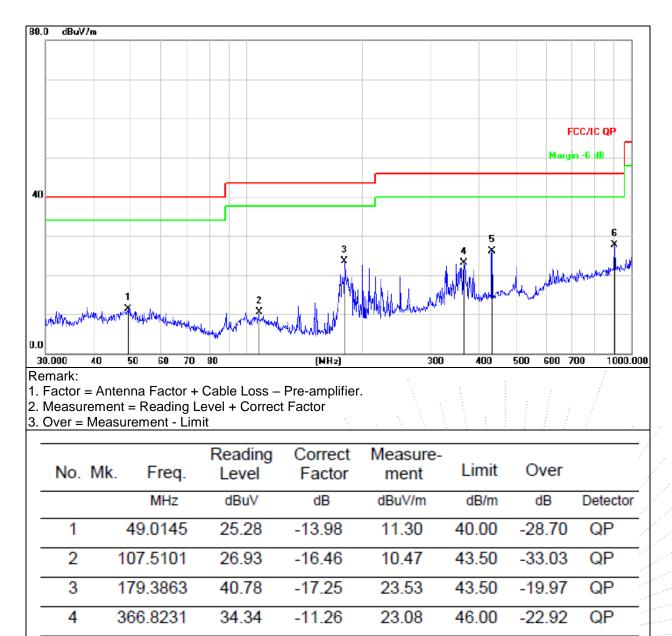
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Measurement = Reading Level + Correct Factor

3. Over = Measurement - Limit

	11100							
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detecto
1		58.6126	31.69	-15.06	16.63	40.00	-23.37	QP
2		88.3421	37.16	-17.79	19.37	43.50	-24.13	QP
3		150.0108	33.21	-19.43	13.78	43.50	-29.72	QP
4		199.9856	35.11	-15.72	19.39	43.50	-24.11	QP
5		375.9385	35.86	-11.15	24.71	46.00	-21.29	QP
6	*	434.0651	42.94	-10.17	32.77	46.00	-13.23	QP



LFTB01-A							
Temperature:	<b>26</b> ℃	Relative Humidity:	54%				
Pressure:	101KPa	Phase :	Horizontal				
Test Mode:	Mode 8	Test Voltage :	DC 7.6V				



5

6

434.0651

903.3094

36.22

30.88

-10.17

-3.11

26.05

27.77

46.00

46.00

QP

QP

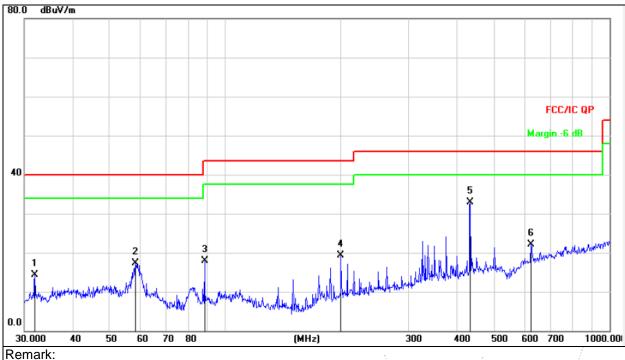
-19.95

-18.23

E



Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 8	Test Voltage :	DC 7.6V



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

2. Measurement = Reading Level + Correct Factor

3. Over = Measurement - Limit

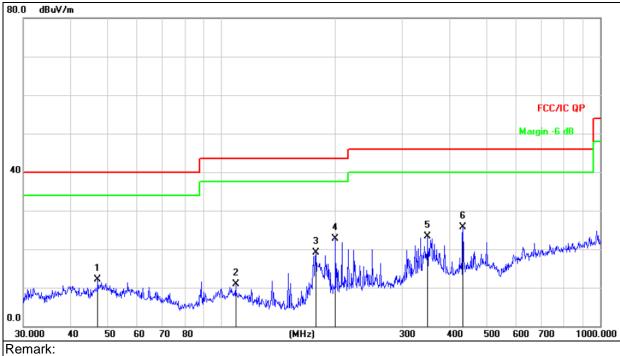
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		31.9546	30.55	-16.27	14.28	40.00	-25.72	QP
2		58.4074	32.32	-15.03	17.29	40.00	-22.71	QP
3		88.3421	35.66	-17.79	17.87	43.50	-25.63	QP
4		199.9856	34.97	-15.72	19.25	43.50	-24.25	QP
5	*	434.0651	43.11	-10.17	32.94	46.00	-13.06	QP
6		625.0780	28.79	-6.59	22.20	46.00	-23.80	QP

JC JC JC

<sup>e</sup>poi



LFTB01-S							
Temperature:	<b>26</b> ℃	Relative Humidity:	54%				
Pressure:	101KPa	Phase :	Horizontal				
Test Mode:	Mode 8	Test Voltage :	DC 7.6V				



#### 1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

2. Measurement = Reading Level + Correct Factor

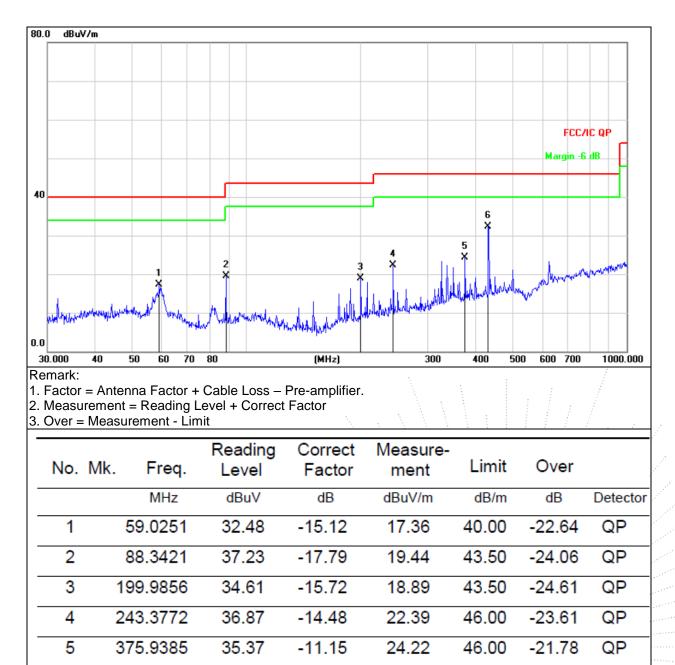
3. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		47.1599	26.16	-14.13	12.03	40.00	-27.97	QP
2		109.0286	27.49	-16.56	10.93	43.50	-32.57	QP
3		177.5092	36.41	-17.39	19.02	43.50	-24.48	QP
4		199.9856	38.40	-15.72	22.68	43.50	-20.82	QP
5		350.4768	34.74	-11.47	23.27	46.00	-22.73	QP
6	*	434.0651	35.79	-10.17	25.62	46.00	-20.38	QP

# TE. OVI



Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 8	Test Voltage :	DC 7.6V



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42.60

6 \*

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-10.20

32.40

46.00

QP

-13.60



#### LFTB01-P

#### Between 1GHz – 25GHz

#### 1Mbps

			GFSK				
Polar (H/V)	Frequency	Reading Level	Correct Factor	Measure-m ent	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
			Low chan	nel			
V	4804.00	71.17	-19.99	51.18	74.00	-22.82	PK
V	4804.00	62.85	-19.99	42.86	54.00	-11.14	AV
V	7206.00	63.43	-14.22	49.21	74.00	-24.79	PK
V	7206.00	52.96	-14.22	38.74	54.00	-15.26	AV
Н	4804.00	67.89	-19.99	47.90	74.00	-26.10	PK
Н	4804.00	57.73	-19.99	37.74	54.00	-16.26	AV
Н	7206.00	61.04	-14.22	46.82	74.00	-27.18	PK
Н	7206.00	53.80	-14.22	39.58	54.00	-14.42	AV
		•	Middle cha	nnel			•
V	4880.00	67.70	-19.84	47.86	74.00	-26.14	PK
V	4880.00	59.31	-19.84	39.47	54.00	-14.53	AV
V	7320.00	57.15	-13.90	43.25	74.00	-30.75	PK
V	7320.00	48.53	-13.90	34.63	54.00	-19.37	AV
Н	4880.00	64.28	-19.84	44.44	74.00	-29.56	/ PK
Н	4880.00	54.85	-19.84	35.01	54.00	-18.99	AV
Н	7320.00	54.38	-13.90	40.48	74.00	-33.52	PK
Н	7320.00	45.49	-13.90	31.59	54.00	-22.41	AV
			High chan	nel			
V	4960.00	70.29	-19.68	50.61	74.00	-23.39	PK
V	4960.00	59.91	-19.68	40.23	54.00	-13.77	AV
V	7440.00	63.37	-13.57	49.80	74.00	-24.20	PK
V	7440.00	52.69	-13.57	39.12	54.00	-14.88	AV
Н	4960.00	68.35	-19.68	48.67	74.00	-25.33	PK
Н	4960.00	57.72	-19.68	38.04	54.00	-15.96	AV
Н	7440.00	60.75	-13.57	47.18	74.00	-26.82	PK
Н	7440.00	51.98	-13.57	38.41	54.00	-15.59	AV

Remark:

1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Cable Loss – Pre-amplifier. Over= Measurement - 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.



2Mbps

			GFSK				
Polar	Frequency	Reading Level	Correct Factor	Measure-m ent	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	Туре
			Low chan	nel			
V	4804.00	71.28	-19.99	51.29	74.00	-22.71	PK
V	4804.00	61.61	-19.99	41.62	54.00	-12.38	AV
V	7206.00	60.94	-14.22	46.72	74.00	-27.28	PK
V	7206.00	51.66	-14.22	37.44	54.00	-16.56	AV
Н	4804.00	66.71	-19.99	46.72	74.00	-27.28	PK
Н	4804.00	56.60	-19.99	36.61	54.00	-17.39	AV
Н	7206.00	59.18	-14.22	44.96	74.00	-29.04	PK
Н	7206.00	51.52	-14.22	37.30	54.00	-16.70	AV
			Middle char	nel			
V	4880.00	68.02	-19.84	48.18	74.00	-25.82	PK
V	4880.00	59.64	-19.84	39.80	54.00	-14.20	AV
V	7320.00	58.13	-13.90	44.23	74.00	-29.77	PK
V	7320.00	48.99	-13.90	35.09	54.00	-18.91	AV
Н	4880.00	64.89	-19.84	45.05	74.00	-28.95	PK
Н	4880.00	55.40	-19.84	35.56	54.00	-18.44	AV
Н	7320.00	56.15	-13.90	42.25	74.00	-31.75	PK
Н	7320.00	47.23	-13.90	33.33	54.00	-20.67	AV
			High chan	nel			
V	4960.00	70.00	-19.68	50.32	74.00	-23.68	PK
V	4960.00	60.16	-19.68	40.48	54.00	-13.52	AV
V	7440.00	61.89	-13.57	48.32	74.00	-25.68	PK
V	7440.00	51.06	-13.57	37.49	54.00	-16.51	AV
Н	4960.00	67.08	-19.68	47.40	74.00	-26.60	PK
Н	4960.00	57.06	-19.68	37.38	54.00	-16.62	AV
Н	7440.00	59.29	-13.57	45.72	74.00	-28.28	PK
Н	7440.00	51.34	-13.57	37.77	54.00	-16.23	AV

#### Remark:

1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Cable Loss – Pre-amplifier. Over= Measurement - 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 20dB4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

No.: BCTC/RF-EMC-005

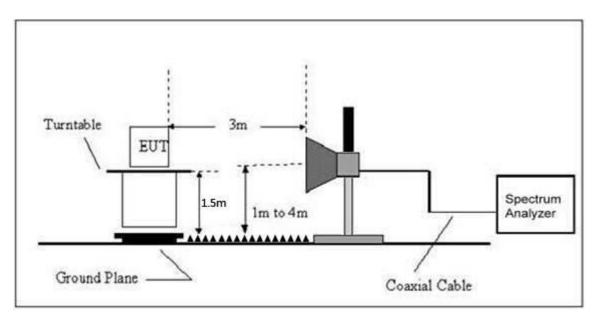
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#### 8. Radiated Band Emission Measurement And Restricted Bands Of Operation

#### 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
<sup>1</sup> 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	( <sup>2</sup> )
13.36-13.41			

No.: BCTC/RF-EMC-005



Limits Of Radiated Emission Measurement (Above 1000MHz)

Frequency (MHz)	Limit (dBuV/m) (	at 3M)
riequency (Mirz)	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.

Por



#### 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.

#### 8.5 Test Result

Test mode	Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	•	V/m)	Over	Result
			(abav/iii)	(ub)	PK	PK	AV	PK	
Low Channel 2402MHz									
	Н	2390.00	73.04	-25.43	47.61	74.00	54.00	-26.39	PASS
	Н	2400.00	75.16	-25.40	49.76	74.00	54.00	-24.24	PASS
	V	2390.00	72.11	-25.43	46.68	74.00	54.00	-27.32	PASS
GFSK(1Mbps)	V	2400.00	73.66	-25.40	48.26	74.00	54.00	-25.74	PASS
GFSK(TWDps)	High Channel 2480MHz								
	Н	2483.50	71.43	-25.15	46.28	74.00	54.00	-27.72	PASS
	Н	2500.00	68.61	-25.10	43.51	74.00	54.00	-30.49	PASS
	V	2483.50	70.68	-25.15	45.53	74.00	54.00	-28.47	PASS
	V	2500.00	67.45	-25.10	42.35	74.00	54.00	-31.65	PASS
Low Channel 2402MHz									
	Н	2390.00	73.46	-25.43	48.03	74.00	54.00	-25.97	PASS
	Н	2400.00	75.43	-25.40	50.03	74.00	54.00	-23.97	PASS
	V	2390.00	74.05	-25.43	48.62	74.00	54.00	-25.38	PASS
GFSK(2Mbps)	V	2400.00	74.21	-25.40	48.81	74.00	54.00	-25.19	PASS
GF3K(ZWDPS)	High Channel 2480MHz								
	Н	2483.50	73.23	-25.15	48.08	74.00	54.00	-25.92	PASS
	Н	2500.00	69.05	-25.10	43.95	74.00	54.00	-30.05	PASS
	V	2483.50	74.12	-25.15	48.97	74.00	54.00	-25.03	PASS
	V	2500.00	69.84	-25.10	44.74	74.00	54.00	-29.26	PASS

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#### Remark:

1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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.



#### 9. Power Spectral Density Test

#### 9.1 Block Diagram Of Test Setup



#### 9.2 Limit

FCC Part15 (15.247), Subpart C							
Section	Test Item	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

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#### 9.5 Test Result

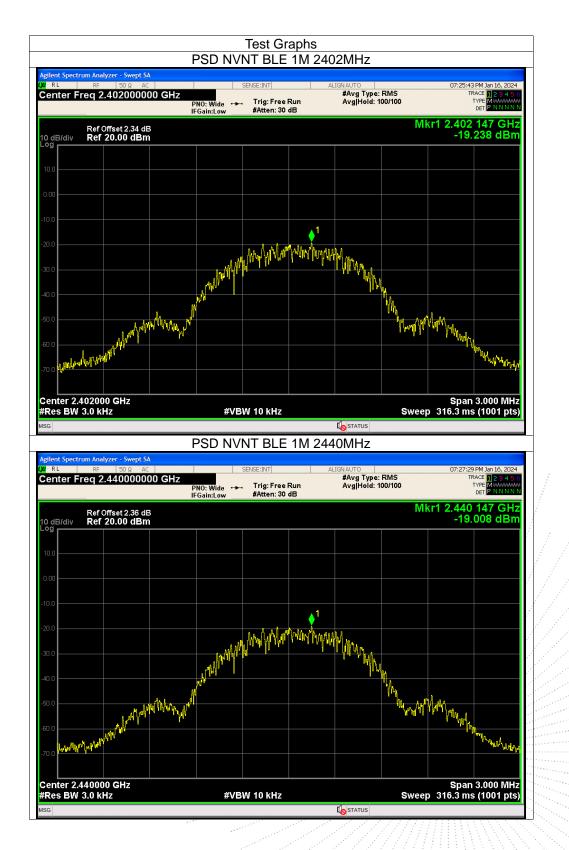
Temperature:	<b>26</b> ℃	Relative Hu	Relative Humidity:		54%	
Pressure:	101KPa	Test Voltag	Test Voltage :		V	
Mode	Frequency	Power Spectral Density(dBm/3kHz)	Limit (dBm/3kHz)		Result	
	2402 MHz	-19.24	8		PASS	
GFSK(1Mbps)	2440 MHz	-19.01	8		PASS	
	2480 MHz	-18.47	8		PASS	
	2402 MHz	-22.09	8		PASS	
GFSK(2Mbps)	2440 MHz	-22.19	8		PASS	
	2480 MHz	-21	8		PASS	

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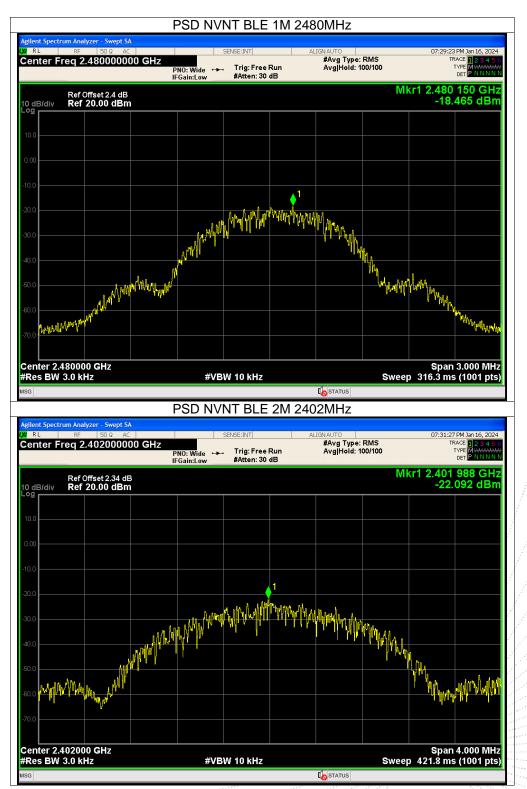
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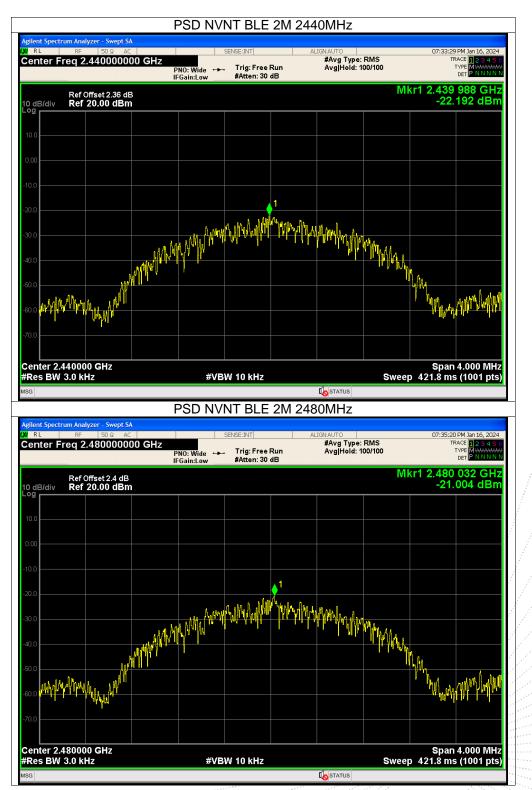














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## 10. Bandwidth Test

## 10.1 Block Diagram Of Test Setup



## 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)  $\ge$  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

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# 10.5 Test Result

Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	DC 7.6V

Mode	Frequency (MHz)	-6dB bandwidth (MHz)	Limit (kHz)	Result
	2402	0.679	500	Pass
GFSK(1Mbps)	2440	0.696	500	Pass
	2480	0.704	500	Pass
	2402	1.096	500	Pass
GFSK(2Mbps)	2440	1.136	500	Pass
	2480	1.122	500	Pass

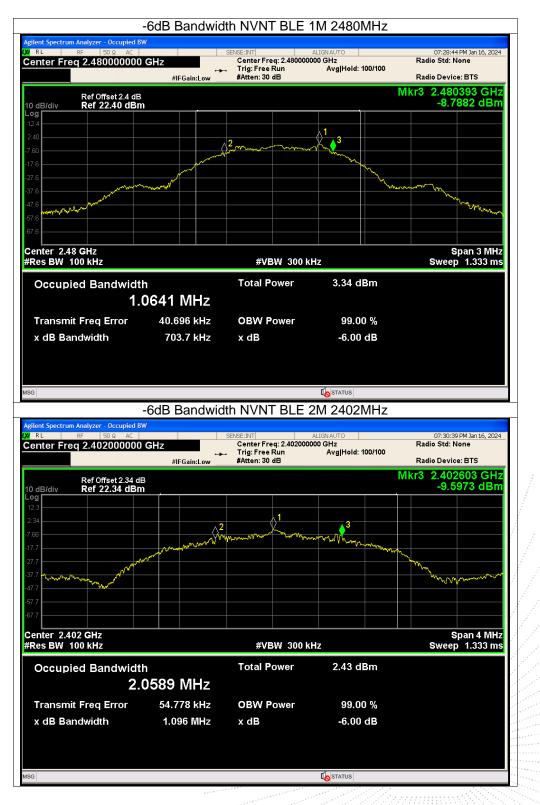
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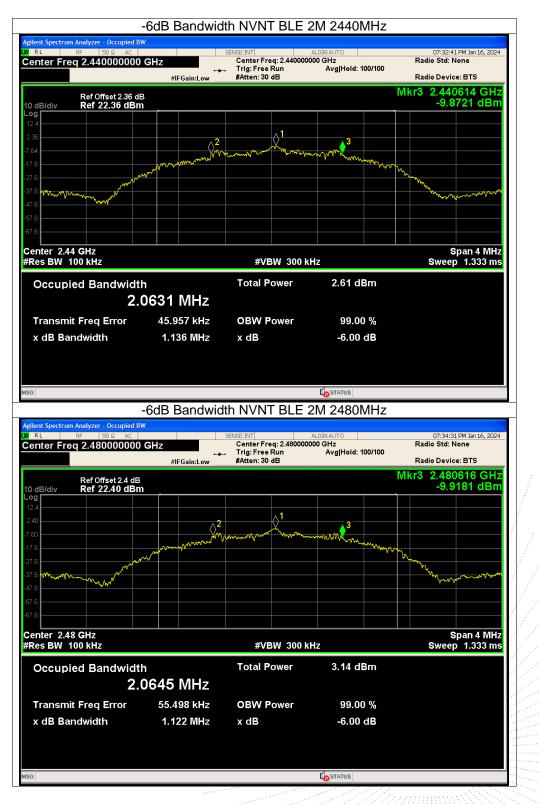
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## 11. Peak Output Power Test

## 11.1 Block Diagram Of Test Setup



#### 11.2 Limit

	FCC Part15 (15.247) , Subpart C					
Section	Section Test Item		n Test Item Limit		Frequency Range (MHz)	Result
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:	<b>26</b> °C		Relative Humidity:	54%
Pressure:	101KPa		Test Voltage :	DC 7.6V
		And a second		

Mode	Frequency(MHz)	Maximum Conducted Output Power(PK) (dBm)	Conducted Output Power Limit(dBm)
	2402	-3.50	30
GFSK(1Mbps)	2440	-3.35	30
	2480	-2.70	30
	2402	-3.54	30
GFSK(2Mbps)	2440	-3.40	30
	2480	-2.77	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

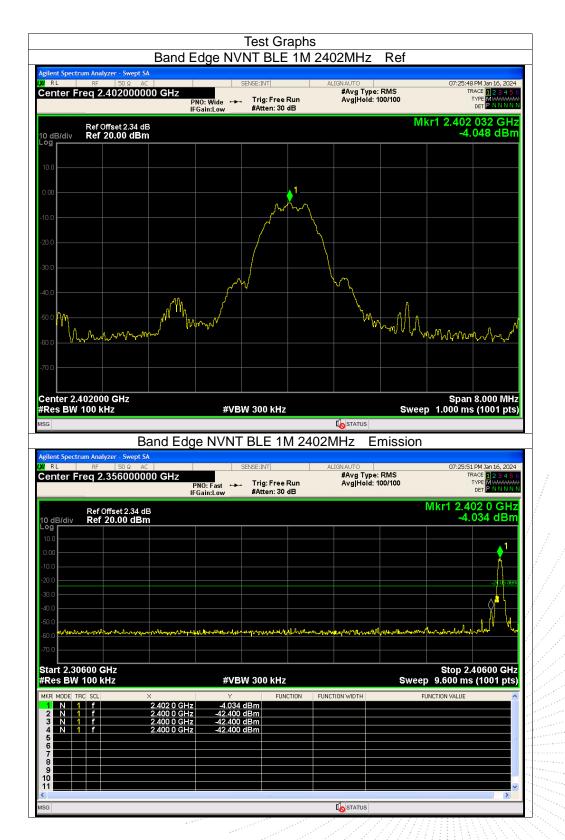
The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing. Note: Power Spectral Density(dBm)=Reading+Cable Loss

#### 12.5 Test Result

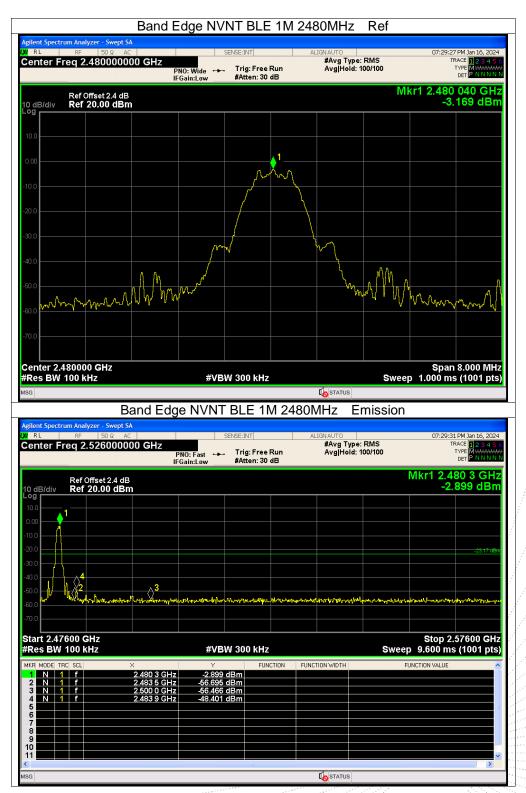
Temperature:	<b>26</b> ℃	Relative Humidity:	54%	
Pressure:	101KPa	Test Voltage :	DC 7.6V	

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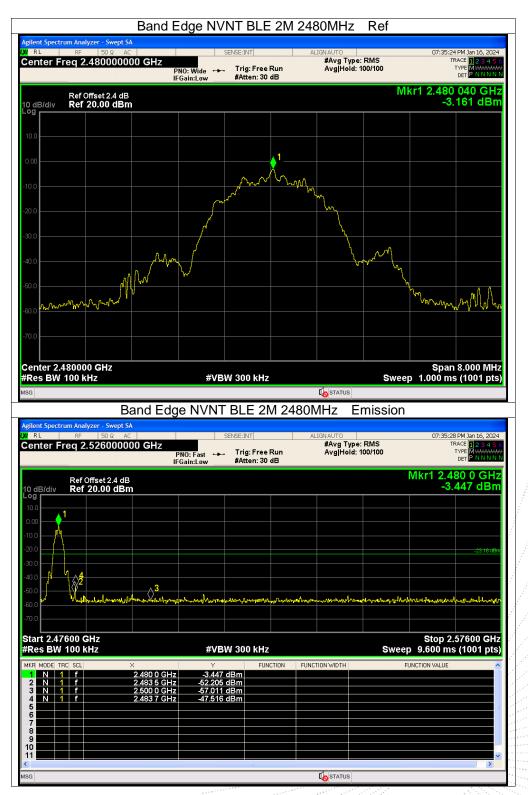




















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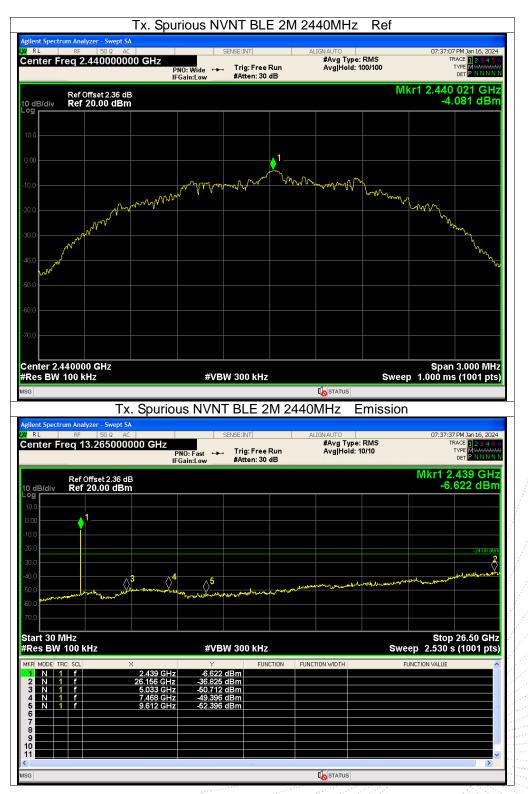


No.: BCTC/RF-EMC-005



















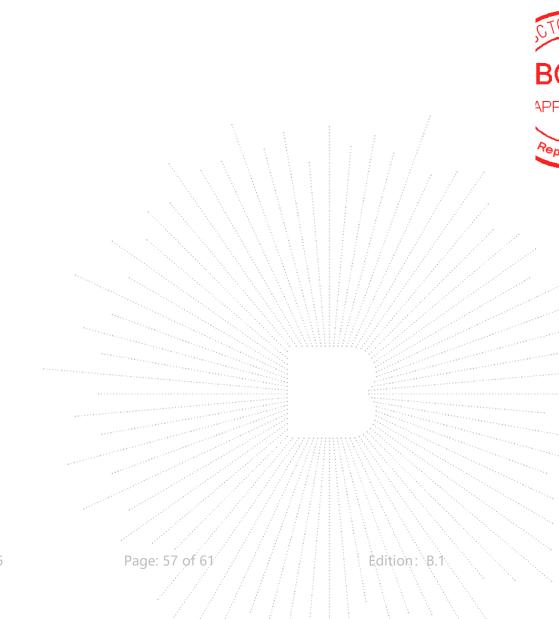
## 13. Antenna Requirement

#### 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 Internal antenna, fulfill the requirement of this section.

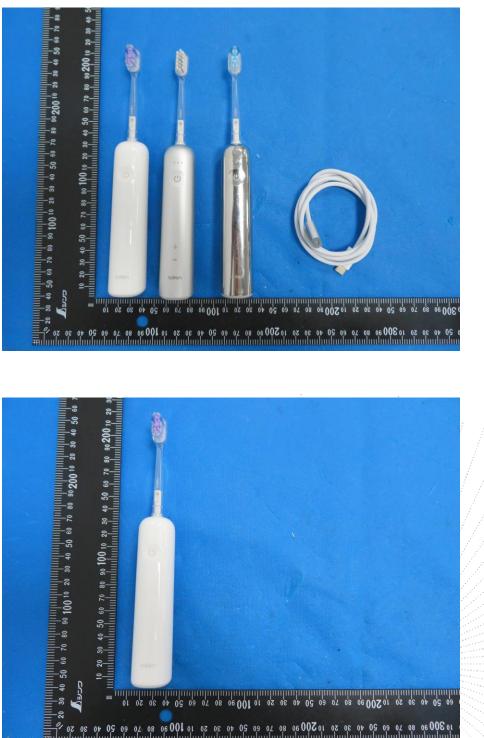


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# 14. EUT Photographs

EUT Photo



## NOTE: Appendix-Photographs Of EUT Constructional Details

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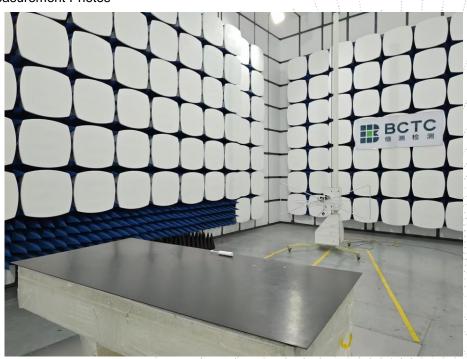


# 15. EUT Test Setup Photographs

Conducted emissions



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 quality system of our laboratory is in accordance with ISO/IEC17025.

8. 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.

Address:

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL: 400-788-9558

P.C.: 518103

FAX: 0755-33229357

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