

### 10. 20 dB Bandwidth

### 10.1 Block Diagram Of Test Setup



### 10.2 Limit

N/A

#### 10.3 Test procedure

1. Set RBW = 30kHz.

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 Test Result

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	0.871	Pass
NVNT	1-DH1	2441	0.924	Pass
NVNT	1-DH1	2480	0.880	Pass
NVNT	2-DH1	2402	1.268	Pass
NVNT	2-DH1	2441	1.279	Pass
NVNT	2-DH1	2480	1.222	Pass











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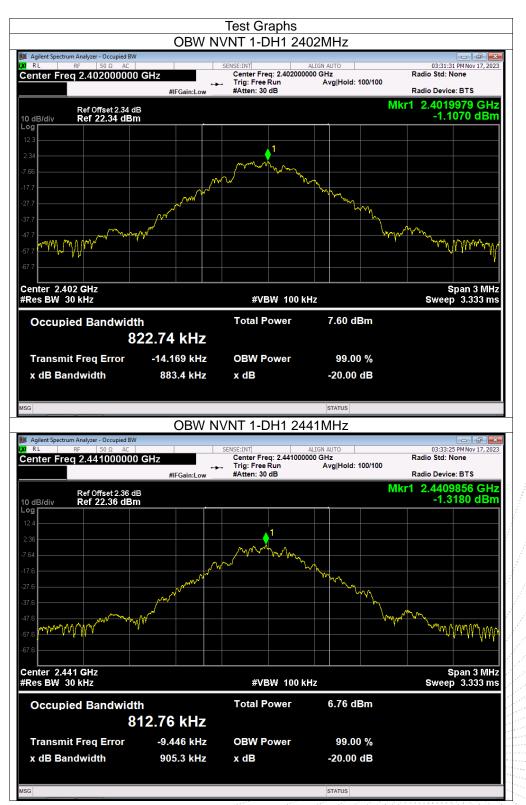
























### 11. Maximum Peak Output Power

### 11.1 Block Diagram Of Test Setup



#### 11.2 Limit

	FCC Part15 (15.247) , Subpart C							
Section	Test Item	Limit	Frequency Range (MHz)	Result				
15.247(b)(1)	Peak Output Power	0.125 watt or 21dBm	2400-2483.5	PASS				

#### 11.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 2MHz. VBW = 6MHz. Sweep = auto; Detector Function = Peak.

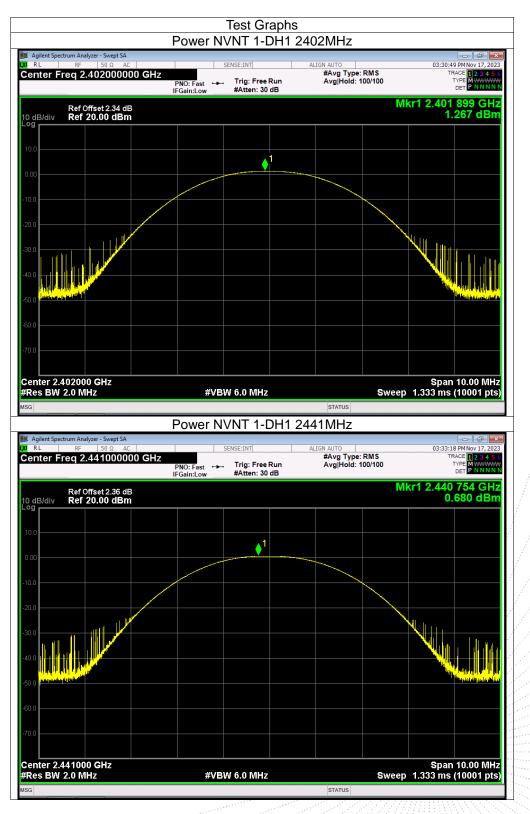
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

#### 11.4 Test Result

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	1.27	21	Pass
NVNT	1-DH1	2441	0.68	21	Pass
NVNT	1-DH1	2480	-0.45	21	Pass
NVNT	2-DH1	2402	3.51	21	Pass
NVNT	2-DH1	2441	2.80	21	Pass
NVNT	2-DH1	2480	1.59	21	Pass

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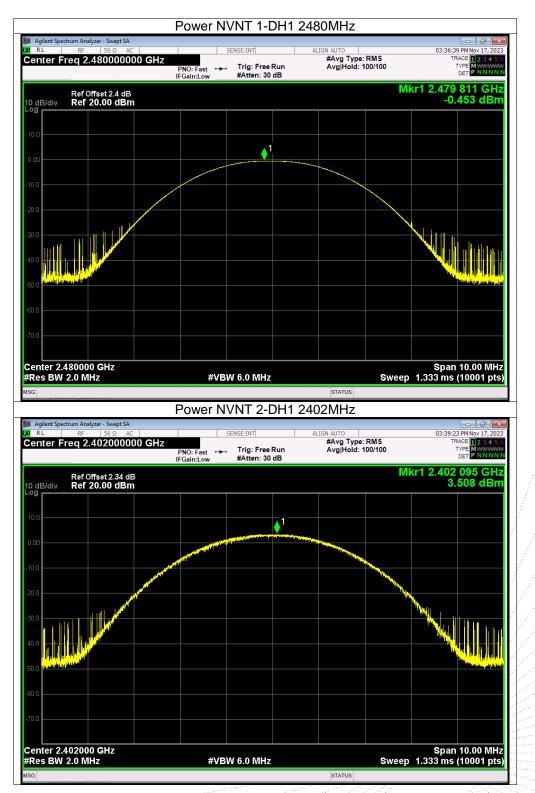




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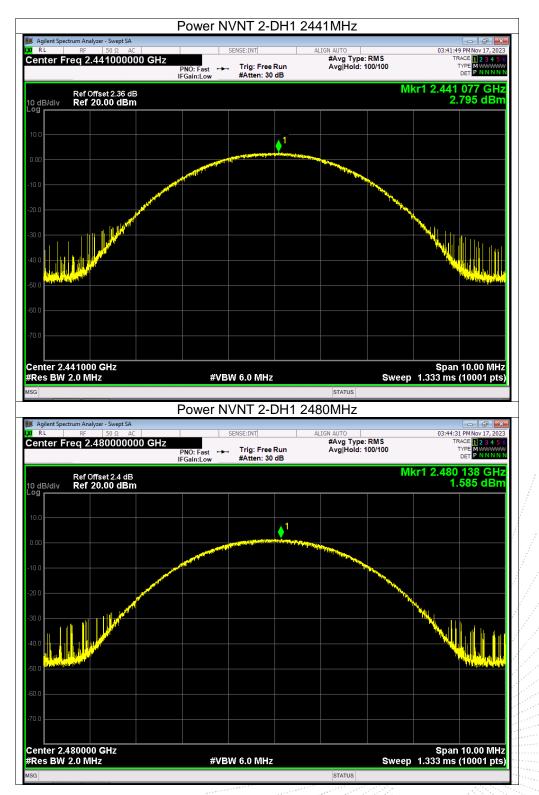
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### 12. Hopping Channel Separation

### 12.1 Block Diagram Of Test Setup



#### 12.2 Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 0.125W.

#### 12.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 30kHz. VBW = 100kHz , Span = 2.0MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

Modulation	Test Channel	Separation (MHz)	Limit(MHz)	Result
GFSK	Low was	0.998	0.581	PASS
GFSK	Middle	1.002	0.616	PASS
GFSK	High	1.000	0.587	PASS
π/4 DQPSK	Low	0.998	0.845	PASS
π/4 DQPSK	Middle	0.998	0.853	PASS
π/4 DQPSK	High	1.006	0.815	PASS
	i iigii	1.000	0.010	FA35

#### 12.4 Test Result



	С	Test Gr FS NVNT 1-D	aphs H1 2402MH	z	
Agilent Spectrum Analyzer - Su RL RF 50 enter Freq 2.4023	wept SA Ω AC 500000 GHz PNO:	SENSE:INT Wide Trig: Free n:Low #Atten: 30	ALIGN AUT #Avg Run Avg		03:32:06 PM Nov 17, 202: TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N
Ref Offset 2 dB/div Ref 20.00	2.34 dB ) dBm			Mkr	2.401 988 GHz -0.670 dBm
0 dB/div Ref 20.00	1			<mark>2</mark>	
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0.0					
0.0					
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enter 2.402500 GH Res BW 30 kHz	Z	#VBW 100 kHz		Sweep	Span 2.000 MHz 2.133 ms (1001 pts)
R MODE TRC SCL	× 2.401 988 GHz	Y FUN -0.670 dBm	CTION FUNCTION WID	TH FUNC	TION VALUE
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7 8 9					
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3			STA	TUS	
Agilent Spectrum Analyzer - Sv		FS NVNT 1-D	H1 2441MH	Z	
	Ω AC 500000 GHz PNO:	SENSE:INT Wide Trig: Free n:Low #Atten: 30	Run Avg	o g Type: RMS Hold:>100/100	03:34:59 PM Nov 17, 202: TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N N
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7 8 9 9 9 9					
0					



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Agilent Spectrum Analyzer RL RF enter Freq 2.47	50 Ω AC 9500000 GHz PN0	SENSE:INT : Wide Trig: Fro in:Low #Atten:	eeRun Avg H	Type: RMS lold:>100/100	03:38:03 PM Nov 17, 202 TRACE 1 2 3 4 5 TYPE M WWWW DET P N NNN
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7 8 9					
9 0 1					
G			STAT	US	,
			stat DH1 2402MH		
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Agilent Spectrum Analyzer RL RF enter Freq 2.40 Ref Offse	- Swept SA 50 Ω AC 2500000 GHz PNO IFGa et 2.34 dB	FS NVNT 2-	DH1 2402MH2 ALIGN AUTO #Avg ee Run Avgl	Z Type: RMS łold:>100/100	03:40:39 PM Nov 17, 202: TRACE 2 3 4 5 TYPE MWWWW DET PNNNN r1 2.401 988 GHz
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Agilent Spectrum Analyzer RL RF enter Freq 2.40 Ref Offse 0 dB/div Ref 20. 0 d 0 dB/div Ref 20. 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d	- Swept SA 50 Ω AC 2500000 GHz PNO IFGa et 2:34 dB 00 dBm 1 1 5Hz X	FS NVNT 2- SENSE:INT Wide Trig: Fri in:Low Trig: Fri #Atten:	DH1 2402MH ALIGN AUTO #Avgl a0 dB	Z Type: RM S told:>100/100 Mk	03:40:39 PM Nov 17, 202 TRACE [1 2 3 4 5 TYPE MINIMUM pt P NNNN r1 2.401 9989 GH2 -0.586 dBm
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Agilent Spectrum Analyzer R L RF	50 Ω AC 9500000 GHz	SENSE	<b>2-DH1</b>	2480MHz Align Auto #Avg Type	:: RMS >100/100	Т	RACE 1 2 3 4 5 6
Agilent Spectrum Analyzer R L RF	50 Ω AC 9500000 GHz	SENSE	Г 2-DH1 :	2480MHz	>100/100	т	34 PM Nov 17, 2023 RACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N
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Agilent Spectrum Analyzer RL RF Senter Freq 2.47 Ref Offs dB/div Ref 20.	50 Ω AC 9500000 GHz F et 2.4 dB	NO: Wide	T 2-DH1 2	2480MHz Align Auto #Avg Type	>100/100	™ kr1 2.478	34 PM Nov 17, 2023 RACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNNN 986 GHz
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Agilent Spectrum Analyzer RL RF enter Freq 2.47 Ref Offs. dB/div Ref 20. 9 9 9 9 9 9 9 9 9 9 9 9 9	50 Ω AC 9500000 GHz et 2.4 dB 00 dBm 1 1 1 1 3Hz 2.478 986 GHz	PNO: Wide TI FGain:Low TI #VBW 1	C2-DH1 : INT   Ig: Free Run Atten: 30 dB	2480MHz	>100/100	kr1 2.478 -2.	14 PMNOV 17, 2023 TYPE MAXWANN TYPE MAXWANN DET P NNNNN 986 GHz 297 dBm 2297 dBm 2000 MHz 5 (1001 pts)

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### 13. Number Of Hopping Frequency

### 13.1 Block Diagram Of Test Setup



### 13.2 Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

### 13.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 100kHz. VBW = 300kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.

4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz. Sweep=auto;

#### 13.4 Test Result

Condition	Mode	Hopping Number Limit Verdict	
NVNT	1-DH1	79 15 Pass	
NVNT	2-DH1	79 15 Pass	

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Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.4417500000 GHz	PNO: Fast Trig: Free Run	ALIGN AUTO #Avg Type: RMS Avg Hold:>100/100	03:48:57 PM Nov 17, 202 TRACE 2 3 4 5 TYPE M WWWW DET P N N N N
Ref Offset 2.36 dB	IFGain:Low #Atten: 30 dB	Mkr1 2	.402 004 0 GHz
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5 6 7			======
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Agilent Spectrum Analyzer - Swept SA R.L RF 50 Ω AC	SENSE:INT		03:54:11 PM Nov 17, 202
enter Freq 2.441750000 GHz	PNO: Fast	#Avg Type: RMS Avg Hold:>100/100	TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N
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No.: BCTC/RF-EMC-005



## 14. Dwell Time

### 14.1 Block Diagram Of Test Setup



#### 14.2 Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

### 14.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set spectrum analyzer span = 0. Centred on a hopping channel;

3. Set RBW = 1MHz and VBW = 3MHz.Sweep = as necessary to capture the entire dwell time per hopping channel. Set the EUT for DH5, DH3 and DH1 packet transmitting.

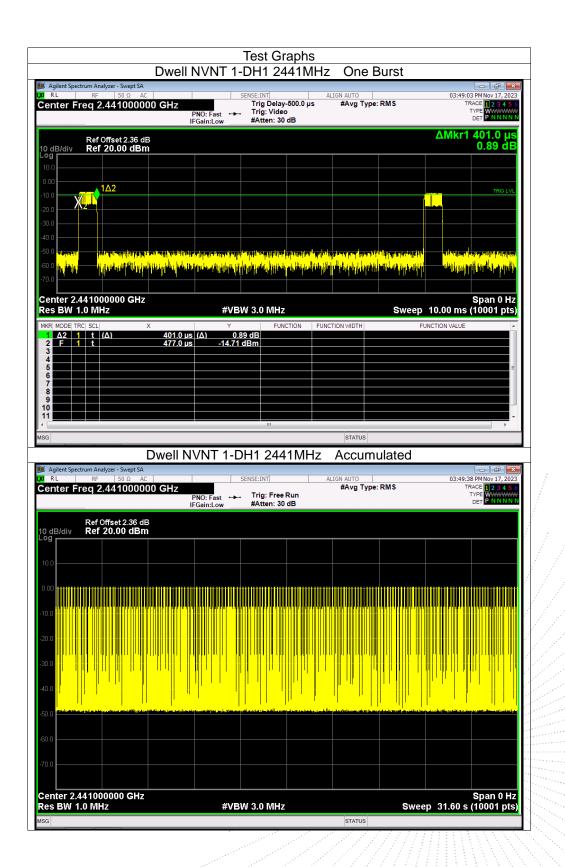
4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.401	127.919	319	31600	400	Pass
1-DH3	2441	1.656	269.928	163	31600	400	Pass
1-DH5	2441	2.905	235.305	81	31600	400	Pass
2-DH1	2441	0.392	125.44	320	31600	400	Pass
2-DH3	2441	1.663	271.069	163	31600	400	Pass
2-DH5	2441	2.892	277.632	96	31600	400	Pass

#### 14.4 Test Result

Note: Total Dwell Time (ms) = Pulse Time (ms)\*Burst Count







Agilent Spectrum Analyzer - Swe		VNT 1-DH3 24		ne Burst	- ¢	×
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l Agilent Spectrum Analyzer - Swej RL RF 50 Ω	pt SA AC 00000 GHz PN0	NT 1-DH3 244 SENSE:INT D: Fast hin:Low Trig: Free #Atten: 30	1MHz Acc ALIGN AUTO #Avg Run	umulated	04:04:40 PN Nov 17, TRACE 12 3 TYPE WWW DET P NN	2023
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Agilent Spectrum Analyzer - Swe RL RF 50 Ω center Freq 2.44100 Ref Offset 2.3 0 dB/div Ref 20.00 d	AC AC DOODOO GHZ PNO IFGa 36 dB	SENSE:INT	1MHz Acc ALIGN AUTO #Avg Run	umulated	04:04:40 PM Nov 17, TRACE 1 2 3	2023 4 5 6
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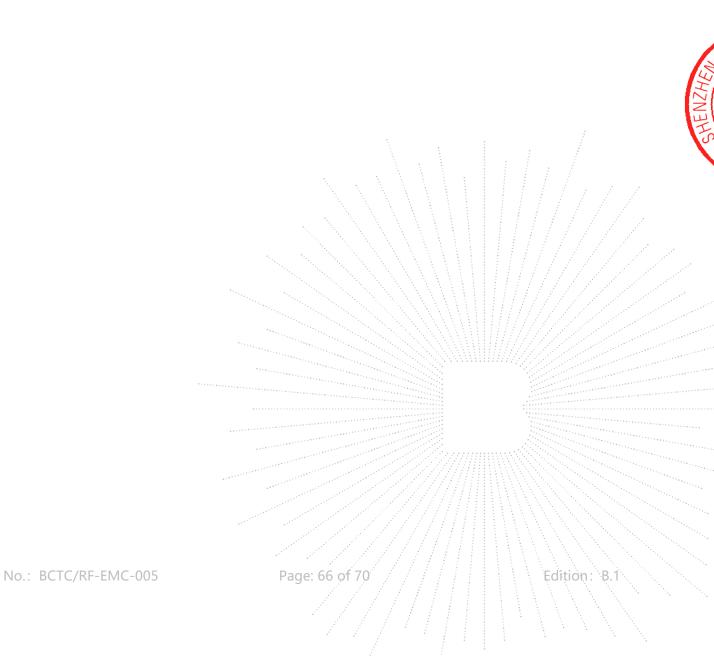
## 15. Antenna Requirement

#### 15.1 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.

#### 15.2 Test Result

The EUT antenna is PCB antenna, fulfill the requirement of this section.





## 16. EUT Photographs

**EUT Photo** 





NOTE: Appendix-Photographs Of EUT Constructional Details

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# 17. EUT Test Setup Photographs

Conducted emissions



Port S

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**Radiated Measurement Photos** 





ST.C D

No.: BCTC/RF-EMC-005

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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

Website: http://www.chnbctc.com

E-Mail: bctc@bctc-lab.com.cn

\*\*\*\*\* END \*\*\*\*\*

No.: BCTC/RF-EMC-005

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