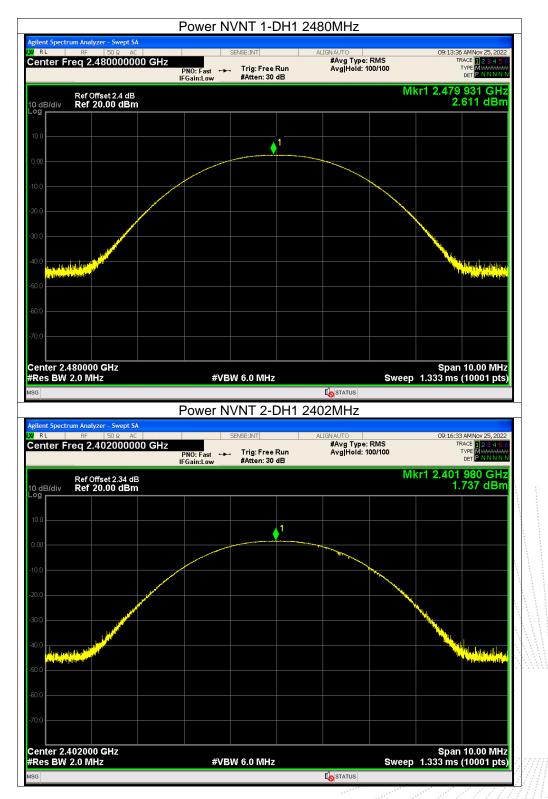


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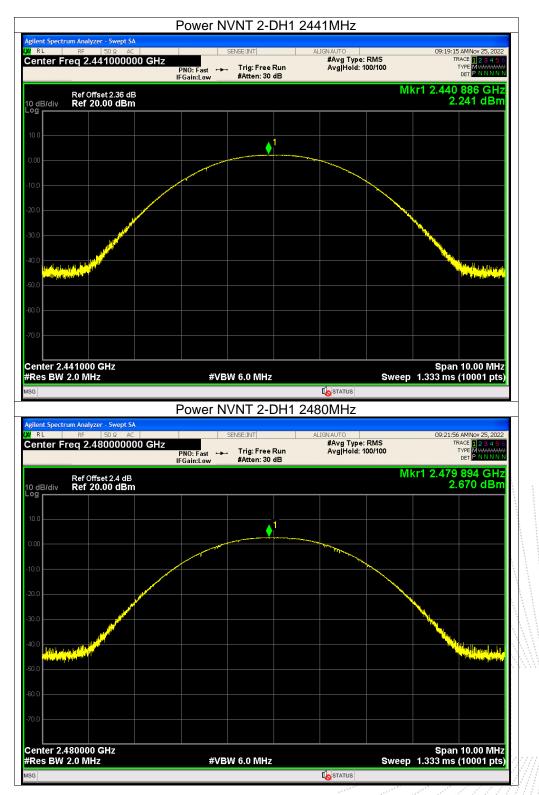


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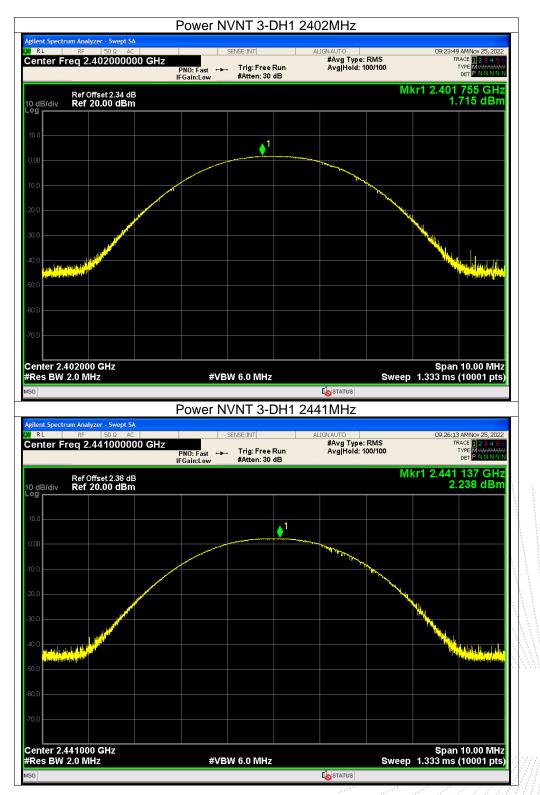
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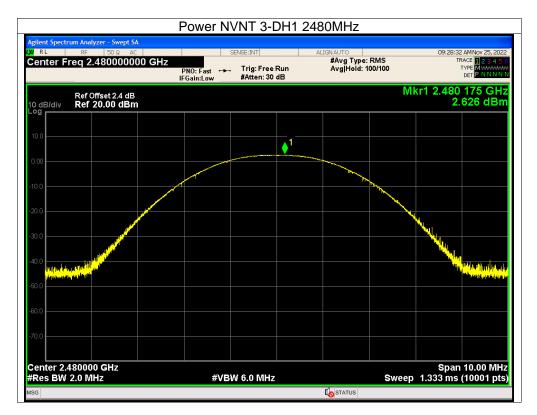














### **12. Hopping Channel Separation**

#### 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.

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# 12.4 Test Result

Modulation	Test Channel	Separation (MHz)	Limit(MHz)	Result
GFSK	Low	1	0.683	PASS
GFSK	Middle	0.996	0.684	PASS
GFSK	High	1	0.693	PASS
π/4DQPSK	Low	0.996	0.787	PASS
π/4DQPSK	Middle	0.998	0.789	PASS
π/4DQPSK	High	1.002	0.785	PASS
8DPSK	Low	1.002	0.782	PASS
8DPSK	Middle	1	0.751	PASS
8DPSK	High	1	0.792	PASS

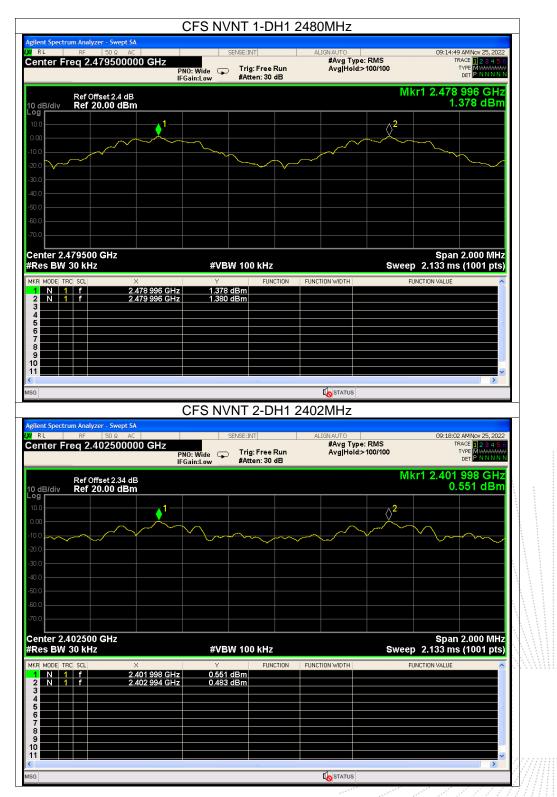
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nt Spectrum Analyzer -							
nter Freg 2.402		SENSE:INT	ALIO	GNAUTO #Avg Type: F		09:10:1 T	2 AMNov 25, 2022 RACE <mark>1 2 3 4 5</mark> 6
	PNO		Free Run n: 30 dB	Avg Hold:>1	00/100		RACE 12345 E TYPE MWWWWW DET PNNNN
Ref Offset	:2.34 dB				Mk	r1 2.401	996 GHz
IB/div Ref 20.0						0.	484 dBm
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nter 2.402500 GH es BW 30 kHz	lz	#VBW 100 I	kHz		Sween		2.000 MHz (1001 pts)
MODE TRC SCL	×	Y		ON WIDTH		NCTION VALUE	<u>^</u>
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							~
				STATUS			
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nt Spectrum Analyzer -	Swept SA		-DH1 2441	MHz			
L RF 5	Swept SA D Ω AC	SENSE:INT	-DH1 2441	MHz GNAUTO #Avg Type: F		09:12:2 T	AMNov 25, 2022
L RF 5	Swept SA ΟΩ AC 500000 GHz PN0	SENSE:INT	-DH1 2441	MHZ		09:12:2 T	
nter Freq 2.441	Swept SA ΩΩ AC 500000 GHz PNC IFG	SENSE:INT	-DH1 2441	MHz GNAUTO #Avg Type: F	00/100	r1 2.440	AMNov 25, 2022 RACE 1 2 3 4 5 6 TYPE MWWWW DET P. N.N.N.N 998 GHZ
nt Spectrum Analyzer - RE RF Si Inter Freq 2.441 Ref Offset IB/div Ref 20.0	Swept SA 0 Ω AC 5000000 GHz PNC IFG: 2.36 dB	SENSE:INT	-DH1 2441	MHz GNAUTO #Avg Type: F	00/100	r1 2.440	AMNov 25, 2022 RACE 1 2 3 4 5 6 TYPE M MAAAAAA DET P. N. N. N. N
nter Freq 2.441 Ref Offset	Swept SA 0 Ω AC 5000000 GHz PNC IFG: 2.36 dB	SENSE:INT	-DH1 2441	MHz GNAUTO #Avg Type: F	00/100 Mk1	r1 2.440	AMNov 25, 2022 RACE 1 2 3 4 5 6 TYPE MWWWW DET P. N.N.N.N 998 GHZ
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Ref Offset BI/div Ref 20.0	Swept SA DO AC 500000 GHz PNC IFG 2,36 dB 0 dBm 1 1 1 2 X	SENSE:INT D: Wide Trig: F ain:Low Atter	-DH1 2441	MHz *Avg Type: I Avg Hold>1	00/100 Mkr	r1 2.440 0. Span 2.133 ms	2.000 MHz
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Ref Offset Biddiv Ref 20.0	Swept SA 0.2 AC 500000 GHz PNC IFG 2.36 dB 0 dBm 1 1 1 2.440 998 GHz	SENSE:INT D: Wide Trig: F #Atter	-DH1 2441	MHz *Avg Type: I Avg Hold>1	00/100 Mkr	r1 2.440 0. Span 2.133 ms	2.000 MHz
Ref Offset Biddiv Ref 20.0	Swept SA 0.2 AC 500000 GHz PNC IFG 2.36 dB 0 dBm 1 1 1 2.440 998 GHz	SENSE:INT D: Wide Trig: F #Atter	-DH1 2441	MHz *Avg Type: I Avg Hold>1	00/100 Mkr	r1 2.440 0. Span 2.133 ms	2.000 MHz

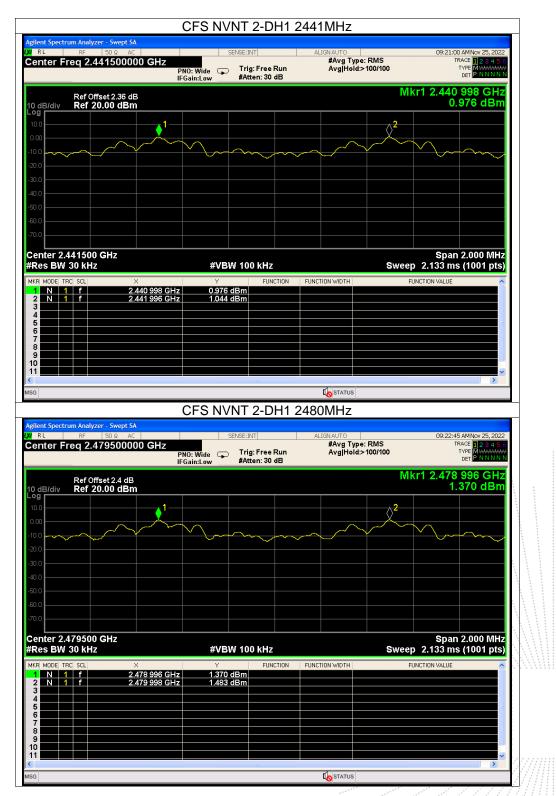
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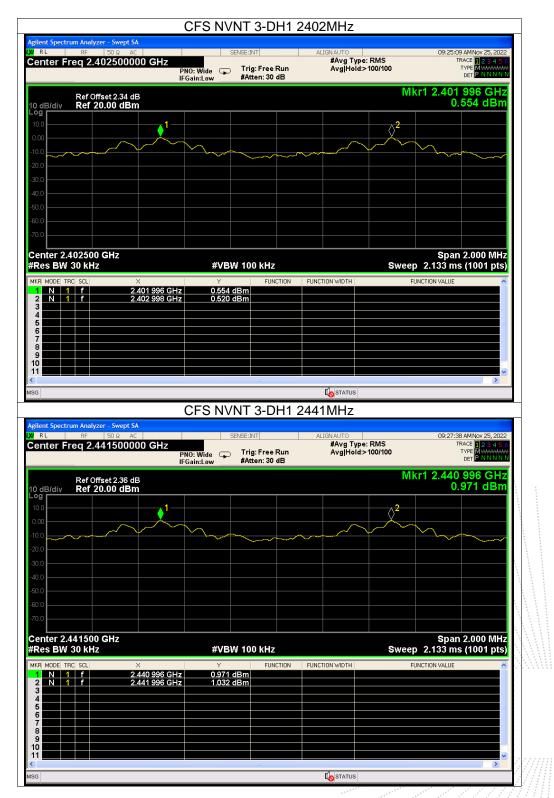














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Ref Offset 2					Mk	r1 2.478 9	96 GH: 00 dBn
0 dB/div Ref 20.00	dBm					1.4	
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70.0							
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Res BW 30 kHz	-	#VBW 10	)0 kHz		Sweep	2.133 ms	2.000 MH (1001 pts
IKR MODE TRC SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUT	ICTION VALUE	
1 N 1 f 2 N 1 f	2.478 996 GHz 2.479 996 GHz	1.400 dBm 1.456 dBm					
3	2.473 330 6H2	1.400 dBm					
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6							
8							
9							
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No.: BCTC/RF-EMC-005



### **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.

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

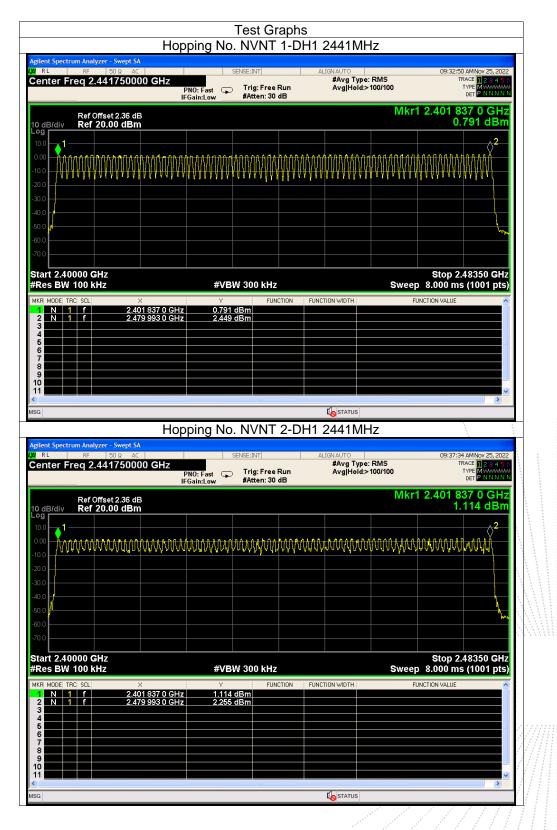


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# 13.4 Test Result



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KR MODE TRC	f 2.4	01 837 0 GHz 79 993 0 GHz	-0.488 2.436	dBm dBm					
KR MODE TRC 1 N 1 2 N 1 3 4	f 2.4	01 837 0 GHz 79 993 0 GHz	-0.488 2.436	dBm dBm					
2 N 1 3	f 2.4	01 837 0 GHz 79 993 0 GHz	-0.488 2.436	dBm dBm					
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KR MODE TRC 1 N 1 2 N 1 3 4 5 5 6 9	f 2.4	01 837 0 GHz 79 993 0 GHz	-0.488 2.436	dBm dBm					
KR     MODE     TRC       1     N     1       2     N     1       3     -     1       4     -     1       5     -     -       6     -     -       7     -     -       8     -     -       9     -     -       0     -     -	f 2.4	01 837 0 GHz 79 993 0 GHz	-0.488 2.436						
KR     MODE     TRC       1     N     1       2     N     1       3     -     -       4     -     -       5     -     -       6     -     -       7     -     -       9     -     -	f 2.4	01 837 0 GHz 79 993 0 GHz	-0.488 2.436	dBm dBm 					



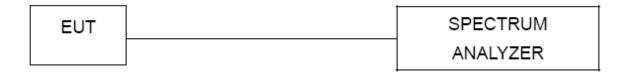
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No.: BCTC/RF-EMC-005



# 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).

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#### 14.4 Test Result

DH5 Packet permit maximum 1600 / 79 / 6 hops per second in each channel (5 time slots RX, 1 time slot TX).

DH3 Packet permit maximum 1600 / 79 / 4 hops per second in each channel (3 time slots RX, 1 time slot TX).

DH1 Packet permit maximum 1600 / 79 /2 hops per second in each channel (1 time slot RX, 1 time slot TX). So, the Dwell Time can be calculated as follows:

DH5:1600/79/6\*0.4\*79\*(MkrDelta)/1000 DH3:1600/79/4\*0.4\*79\*(MkrDelta)/1000 DH1:1600/79/2\*0.4\*79\*(MkrDelta)/1000 Remark: Mkr Delta is once pulse time.

Modulation	Channel Data	Packet	pulse time(ms)	Dwell Time(s)	Limits(s)
		DH1	0.384	0.123	0.4
GFSK	Middle	DH3	1.639	0.262	0.4
		DH5	2.888	0.308	0.4
		2DH1	0.393	0.126	0.4
π/4DQPSK	Middle	2DH3	1.645	0.263	0.4
		2DH5	2.893	0.309	0.4
		3DH1	0.393	0.126	0.4
8DPSK	Middle	3DH3	1.643	0.263	0.4
		3DH5	2.894	0.309	0.4



RL RF 50 Ω enter Freg 2.44100		SENSE:INT	АLI Iay-500.0 µs	GNAUTO #Avg Type:	RMS	09:32:5 T	6 AM Nov 25, 2022 RACE <b>1 2 3 4 5</b> 6
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nter 2.44100000 s BW 1.0 MHz	0 GHz	#VB	W 3.0 MHz			Sweep	10.00 ms	Span 0 Hz (10001 pts)
R MODE TRC SCL	× 2.999 ms	Y		CTION FUNC	TION WIDTH		UNCTION VALUE	(10001 pts)
Δ2 1 t (Δ) F 1 t	2.888 ms 498.0 µs	( <u>A)</u> -0. -5.59	dBm					
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	000000 GHz	PNO: Fast ↔ FGain:Low		-500.0 µs		e: RMS	1	RACE 123456 TYPE WAMAAAAA DET P N N N N N
nter Freq 2.441 Ref Offset dB/div Ref 20.0	000000 GHz		Trig Delay Trig: Video	-500.0 µs		e: RMS	1	RACE 1 2 3 4 5 6
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nter 2.441000000 GH s BW 1.0 MHz	Iz	#VB\	N 3.0 MHz			Sweep	10.00 ms	Span 0 Hz (10001 pts)
MODE     TPC     SCL       A2     1     t     (A)       F     1     t     (A)	× 1.645 ms (Δ 497.0 μs	) 4.2 -7.07	4 dB	CTION FUNI	CTION WIDTH	Fi	UNCTION VALUE	
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	PNO:	East ++ Trig:	: Video en: 30 dB				
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gilent Spectrum Analyzer - Swept SA								
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Ref Offset 2.36 dB 0 dB/div Ref 20.00 dBm							∆Mkr1	2.894 m 4.15 dl
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Content     2441000000 GHz       Conter     2.441000000 GHz       Conter     2.441000000 GHz       Res     BW 1.0 MHz       KR     MODE       TA2     1       Δ2     1	2.894 ms	#VB Υ (Δ) 4.	W 3.0 MHz	Lubbarg, ji sa Makin Lubbarg, ji sa Makin Lubbarg, ji sa Makin	e hi sten at <sub>e e e</sub> it <mark>e</mark> a	Sweep	10.00 ms	Span 0 H
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1     Δ2     1     t     (Δ)       2     F     1     t     -     -       3     -     -     -     -     -       4     -     -     -     -     -       5     -     -     -     -     -	2.894 ms	#VB Υ (Δ) 4.	W 3.0 MHz	Lubbarg, ji sa Makin Lubbarg, ji sa Makin Lubbarg, ji sa Makin	e hi sten at <sub>e e e</sub> it <mark>e</mark> a	Sweep	10.00 ms	Span 0 H
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No.: BCTC/RF-EMC-005



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

Edition: A 5

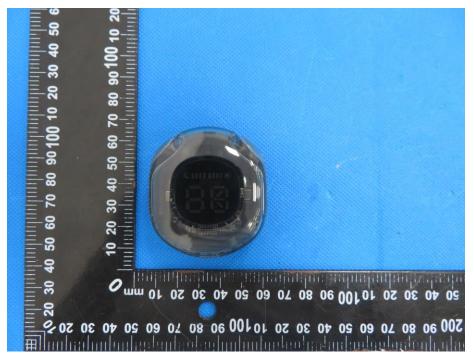
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加力



# 16. EUT Photographs

#### EUT Photo 1



#### **EUT Photo 2**



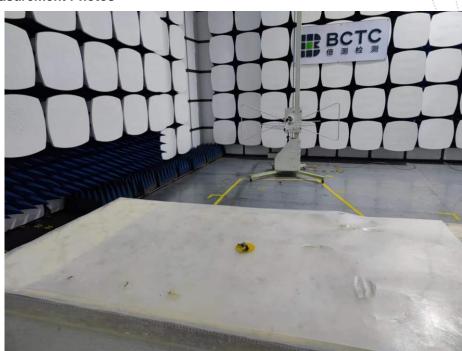


# 17. EUT Test Setup Photographs

# **Conducted Measurement Photo**



Radiated Measurement Photos







No.: BCTC/RF-EMC-005

Edition: A.5



# **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.

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