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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

Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage :	AC 120V/60Hz

	T			
Condition	Mode	Frequency (MHz)	-20dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	1.023	Pass
NVNT	1-DH1	2441	1.026	Pass
NVNT	1-DH1	2480	1.032	Pass
NVNT	2-DH1	2402	1.385	Pass
NVNT	2-DH1	2441	1.371	Pass
NVNT	2-DH1	2480	1.384	Pass
NVNT	3-DH1	2402	1.364	Pass
NVNT	3-DH1	2441	1.359	Pass
NVNT	3-DH1	2480	1,365	Pass

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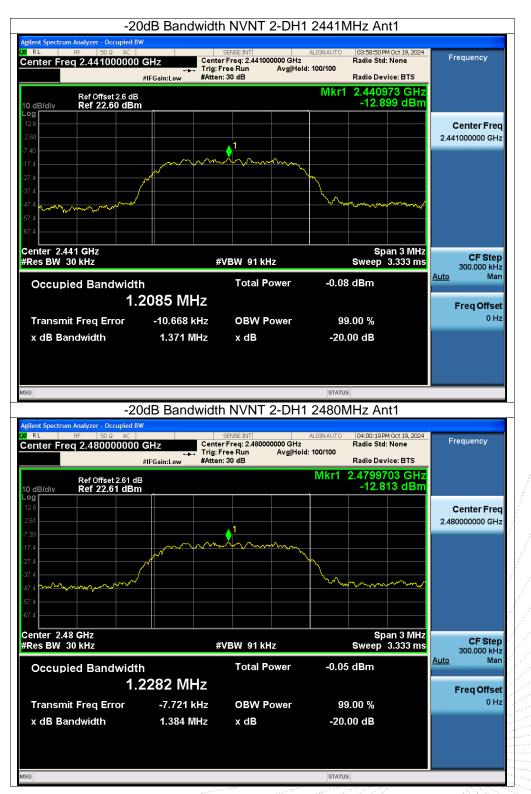












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11. Maximum Peak Output Power

11.1 Block Diagram Of Test Setup



11.2 Limit

		FCC Part15 (15.247) , S	ubpart 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.

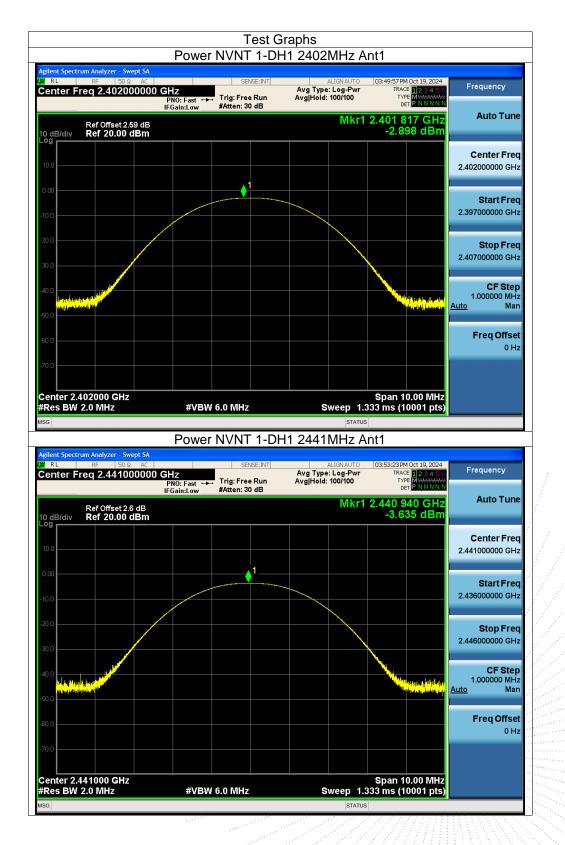
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

11.4 Test Result

Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage :	AC 120V/60Hz
			$\wedge \Pi \Pi \Pi \Pi I I I I Z Z$

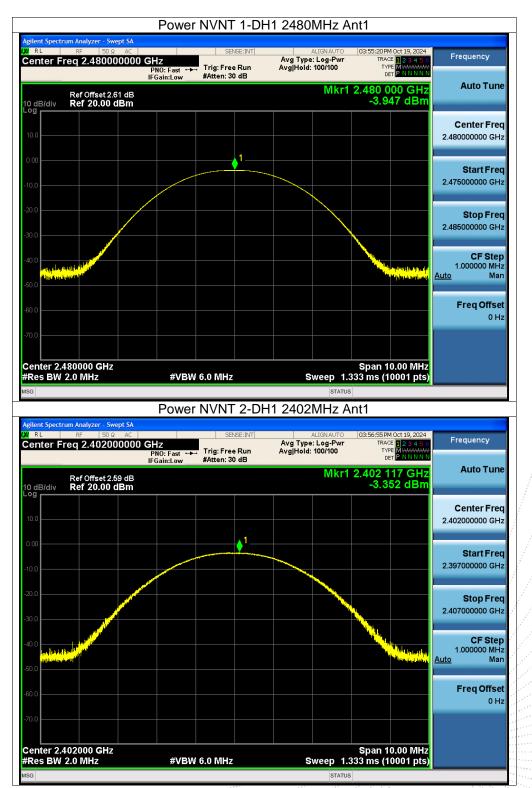
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	-2.9	21	Pass
NVNT	1-DH1	2441	-3.64	21	Pass
NVNT	1-DH1	2480	-3.95	21	Pass
NVNT	2-DH1	2402	-3.35	21	Pass
NVNT	2-DH1	2441	-4.12	21	Pass
NVNT	2-DH1	2480	-4.23	21	Pass
NVNT	3-DH1	2402	-3.11	21	Pass
NVNT	3-DH1	2441	-3.77	21	Pass
NVNT	3-DH1	2480	-3.95	21	Pass





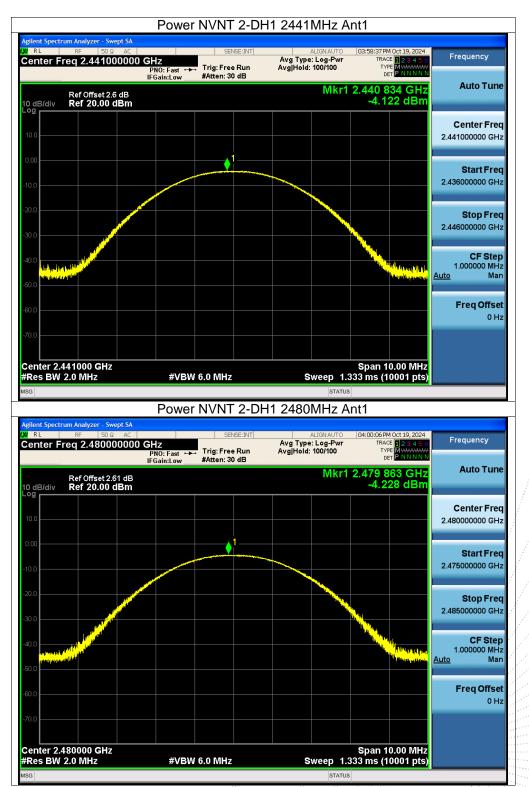
n 00.,LT





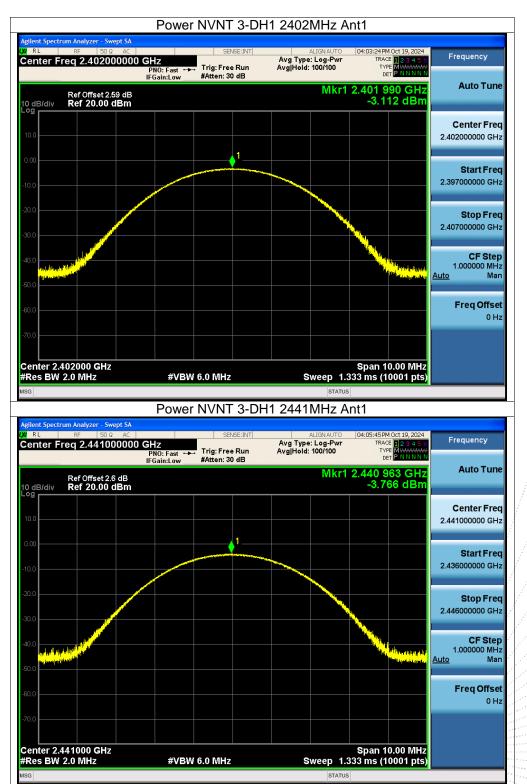






E A

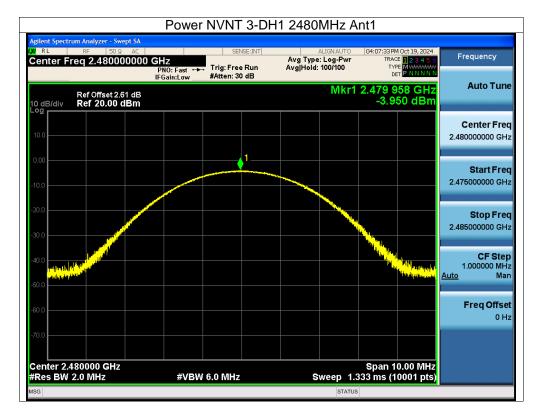




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12. Hopping Channel Separation

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.

Mode	Test Channel	Separation (MHz)	Limit(MHz)	Result
1-DH1	Low Market	1.006	0.682	PASS
1-DH1	Middle	0.998	0.684	PASS
1-DH1	High Migh	1.004	0.688	PASS
2-DH1	Low	0.998	0.923	PASS
2-DH1	Middle	1.002	0.914	PASS
2-DH1	High	1.002	0.923	PASS
3-DH1	Low	0.998	0.909	PASS
3-DH1	Middle	0.998	0.906	PASS
3-DH1	High	0.998	0.91	PASS

12.4 Test Result







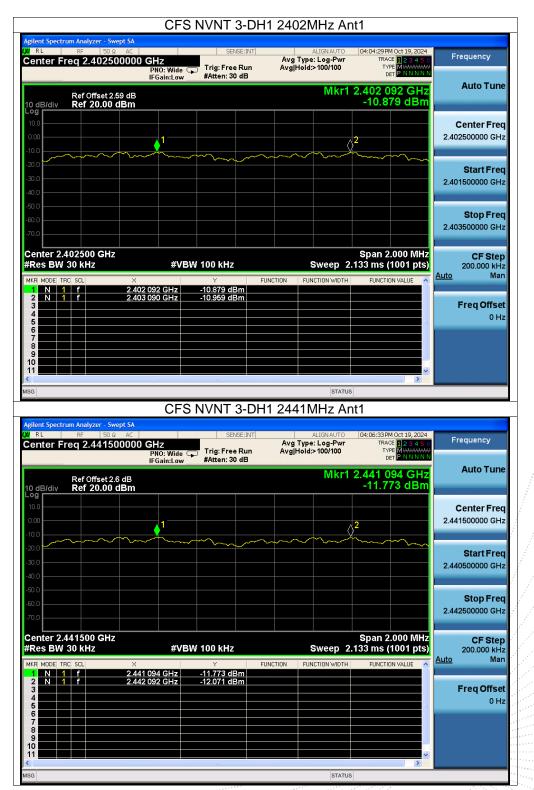






gilent Spectrum Analyzer - Swept RL RF 50 Ω Center Freq 2.441500	AC SEM 000 GHz PNO: Wide S Trig: Free		03:59:13PM Oct 19, 2024 TRACE 12 3 4 5 6 TYPE MWWWWW	Frequency
Ref Offset 2.6 c	IFGain:Low #Atten: 30) dB	2.441 124 GHz -12.704 dBm	Auto Tune
0 dB/div Ref 20.00 dE	sm		 ∆ ²	Center Fred 2.441500000 GHz
	~~~ <b>/</b> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		×	Start Fred 2.440500000 GHz
50.0 50.0 70.0				<b>Stop Fred</b> 2.442500000 GHz
enter 2.441500 GHz Res BW 30 kHz	#VBW 100 kHz	· · · · · · · · · · · · · · · · · · ·	Span 2.000 MHz .133 ms (1001 pts)	<b>CF Step</b> 200.000 kHz <u>Auto</u> Mar
KR MODE TRC SCL 1 N 1 F 2 N 1 F 3	× Y 2.441 124 GHz -12.704 dE 2.442 126 GHz -12.603 dE		FUNCTION VALUE	Freq Offse
8 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10				
SG				
gilent Spectrum Analyzer - Swept	t SA	2-DH1 2480MHz Ai	nt1	
z <mark>ilent Spectrum Analyzer - Swept R L RF 50 Ω</mark>	AC SEN	2-DH1 2480MHz Ar SE:INT ALIGNAUTO Avg Type: Log-Pwr AvgHold>100/100	nt1	Frequency
RL RF 500 RL 86 500 center Freq 2.479500 Ref Offset 2.61 0 dB/div Ref 20.00 dB	AC SE OOO GHZ PNO: Wide Trig: Free IFGain:Low #Atten: 30 dB	2-DH1 2480MHz Ar SE:INT ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	04:01:17PM Oct 19, 2024 TRACE 02345 0 TRACE 02345 0	
RL Spectrum Analyzer Swept RL 8F 50 Q enter Freq 2.479500 Ref Offset 2.61 0 dB/div Ref 20.00 dE 99 10 0	AC SE OOO GHZ PNO: Wide Trig: Free IFGain:Low #Atten: 30 dB	2-DH1 2480MHz Ar SE:INT ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	04:01:17 PM Oct 19, 2024 TRACE DE BESTS TYPE MANNANN OFT PNNNNN 2.478 970 GHz	Auto Tune Center Fred
glient Spectrum Analyzer - Swept           RL         RF         50 Q           enter Freq 2.479500         50 Q         6           Ref Offset 2.61         Ref 20.00 dE         9           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0	AC SE OOO GHZ PNO: Wide Trig: Free IFGain:Low #Atten: 30 dB	2-DH1 2480MHz Ar SE:INT ALIONAUTO PRUN Avg Type: Log-Pwr AvgHold:>100/100 MKr1	04:01:17 PM Oct 19, 2024 TRACE DE BESTS TYPE MANNANN OFT PNNNNN 2.478 970 GHz	Auto Tune Center Frec 2.47950000 GH: Start Frec
enter Freq 2.479500 Ref Offset 2.61	AC SE OOO GHZ PNO: Wide Trig: Free IFGain:Low #Atten: 30 dB	2-DH1 2480MHz Ar SE:INT ALIONAUTO PRUN Avg Type: Log-Pwr AvgHold:>100/100 MKr1	04:01:17 PM Oct 19, 2024 TRACE DE BESTS TYPE MANNANN OFT PNNNNN 2.478 970 GHz	Auto Tune Center Frec 2.479500000 GHz Start Frec 2.478500000 GHz Stop Frec
glient Spectrum Analyzer Swept           RL         RF         50.0           enter Freq 2.479500         Status         Status           Ref Offset 2.61         Gef 20.00 dE         Status           0 dB/div         Ref 20.00 dE         Status           0 0         Status         Status         Status           0 0         Status         Status         Status         Status           0 0         Status         Status         Status         Status         Status           0 0         Status         <	AC SE OOO GHZ PNO: Wide Trig: Free IFGain:Low #Atten: 30 dB	2-DH1 2480MHz Ar	04:01:17 PM Oct 19, 2024 TRACE DE BESTS TYPE MANNANN OFT PNNNNN 2.478 970 GHz	Frequency Auto Tune Center Frec 2.479500000 GHz 2.479500000 GHz 2.470500000 GHz 2.470500000 GHz 2.480500000 GHz 2.480500000 GHz 200.000 KHz 200.000 KHz Auto Mar





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	CFS	S NVNT 3-E	DH1 248	30MHz Ai	nt1	
Agilent Spectrum Analyzer - Swept						
RL RF 50 Ω     Center Freg 2.479500	AC 000 GHz	SENSE:IN	Avg	ALIGNAUTO Type: Log-Pwr	04:08:10 PM Oct 19, 202 TRACE 1 2 3 4 5	Frequency
	PNO: Wide ( IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg	Hold:>100/100	TYPE MWWW DET P N N N	V N
Ref Offset 2.61				Mkr1	2.479 094 GH	Auto Tune
10 dB/div Ref 20.00 dB					-12.041 dBr	n
10.0						Center Freq
0.00	1				A <b>2</b>	2.479500000 GHz
-10.0						
-20.0						Start Freq
-30.0						2.478500000 GHz
-40.0						
-50.0						Stop Freq
-60.0						2.480500000 GHz
-70.0						
Center 2.479500 GHz #Res BW 30 kHz	#VB	W 100 kHz		Sweep 2	Span 2.000 MF 2.133 ms (1001 pt	IZ CF Step s) 200,000 kHz
MKR MODEL TRC SCL	X	Y	FUNCTION	FUNCTION WIDTH		Auto Man
1 N 1 f	2.479 094 GHz 2.480 092 GHz	-12.041 dBm -12.046 dBm				
	2.480 092 GHZ	-12.046 dBm				Freq Offset
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6 7 7						
8 9						
10						<ul> <li>✓</li> </ul>
<					>	
MSG				STATU	s	

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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.

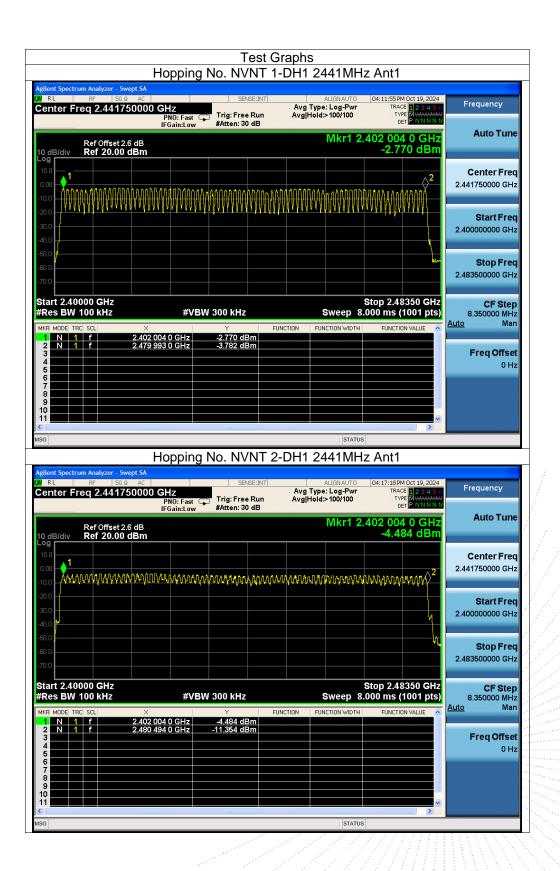
3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.

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
NVNT	3-DH1	79	15	Pass







Hopping	No. NVNT 3	-DH1 2441MH	z Ant1	
Agilent Spectrum Analyzer - Swept SA	SENSE:INT	ALIGN AUTO	04:23:45 PM Oct 19, 2024	
Center Freq 2.441750000 GHz		Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 123456 TYPE MWWWWW	Frequency
PNO: Fast C IFGain:Low	#Atten: 30 dB	Avginola.>100/100	DET P NNNN	A
Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm		Mkr1 2.	402 004 0 GHz -3.896 dBm	Auto Tune
Log 10.0 0.00 -10.0 ↓ 1 -10.0 ↓ 1.00 ↓ 1.00 ↓	ANAMAMA ANAMA	պուդորուսերություն		Center Freq 2.441750000 GHz
-20.0				Start Freq 2.400000000 GHz
-600				<b>Stop Freq</b> 2.483500000 GHz
Start 2.40000 GHz	№ 300 kHz		Stop 2.48350 GHz 000 ms (1001 pts)	CF Step 8.350000 MHz Auto Man
MKR         MODE         TRC         SCL         X           1         N         1         f         2.402         004         0         GHz           2         N         1         f         2.402         004         0         GHz           3         4         5         5         5         5         5         5	Y FU -3.896 dBm -5.199 dBm	NCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man Freq Offset 0 Hz
6 7 8 9 10 11				
MSG		STATUS		



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## 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.

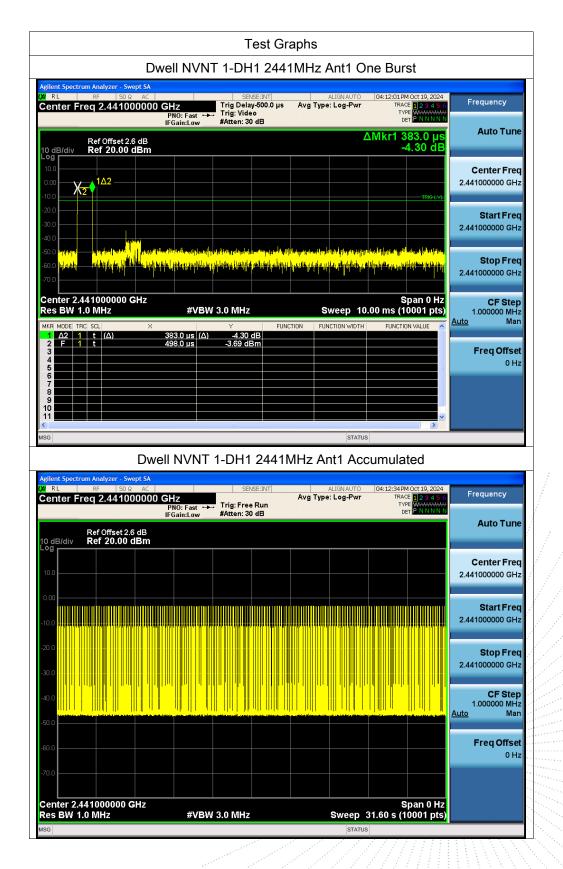
4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.383	121.411	317	31600	400	Pass
1-DH3	2441	1.639	255.684	156	31600	400	Pass
1-DH5	2441	2.887	329.118	114	31600	400	Pass
2-DH1	2441	0.391	123.556	316	31600	400	Pass
2-DH3	2441	1.644	266.328	162	31600	400	Pass
2-DH5	2441	2.891	323.792	112	31600	400	Pass
3-DH1	2441	0.392	124.264	317	31600	400	Pass
3-DH3	2441	1.642	275.856	168	31600	400	Pass
3-DH5	2441	2.893	329.802	114	31600	400	Pass

#### 14.4 Test Result

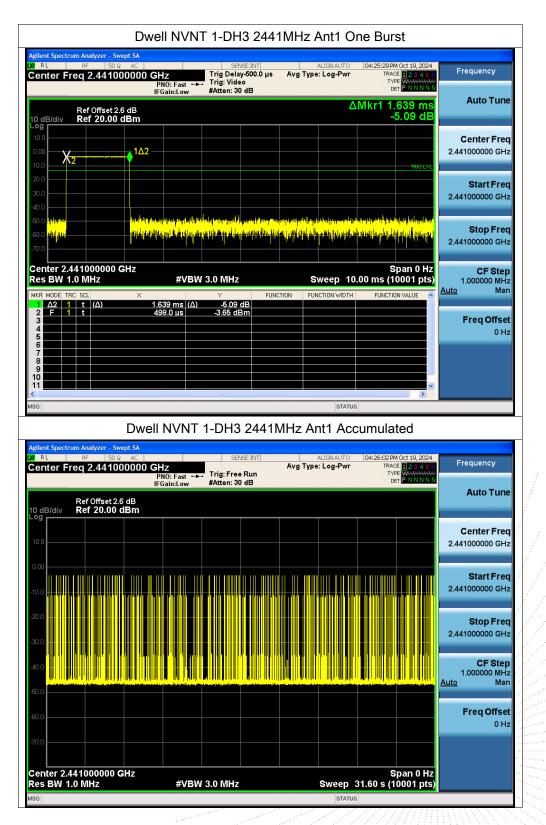
Note: Total Dwell Time (ms) = Pulse Time (ms)*Burst Count





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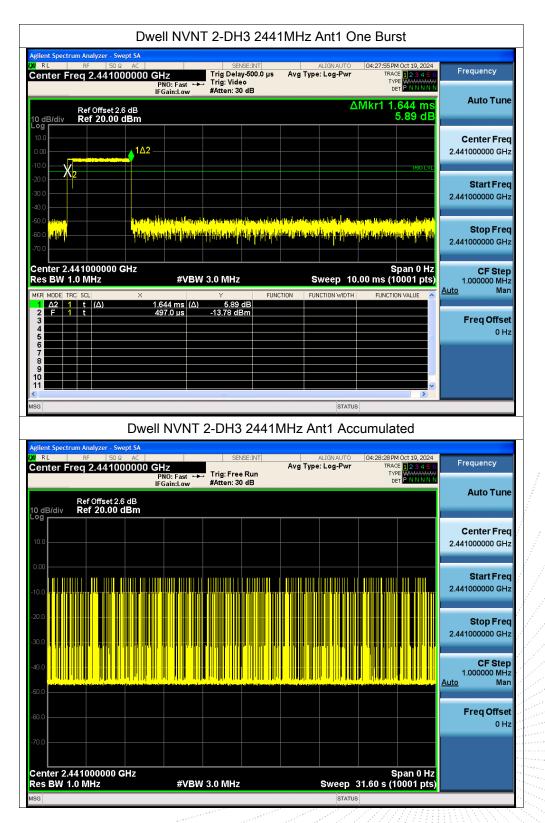
ilent Spectrum Analyzer - S RL RF 50	Swept SA	percent.	SE:INT	ALIGNA	ITO 104/05	.6 PM Oct 19, 2024	_
enter Freq 2.4410		Trig Delay	-500.0 µs	Avg Type: Log-F	ono ju4:26:3 Pwr	TYPE WWWWWW	Frequency
	IFGain:Lo		dB		AMkr1	2.887 ms	Auto Tune
Ref Offset: 0 dB/div Ref 20.00	2.6 dB ) dBm					3.28 dB	
10.0		1Δ2					Center Free
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80.0							2.441000000 GH
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enter 2.441000000 es BW 1.0 MHz		VBW 3.0 MHz		Sweep	10.00 ms	Span 0 Hz (10001 pts)	CF Step 1.000000 MH;
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20	Dwell NV	NT 1-DH5	2441MI				
j <mark>ilent Spectrum Analyzer - S</mark> RL RF 50	Swept SA		2441MI			lated	
jilent Spectrum Analyzer - S	Swept SA Ω AC D000000 GHz PNO: Fa	sens st ↔ Trig: Free	BE:INT	Hz Ant1 /		lated	Frequency
ilent Spectrum Analyzer - S RL RF 50 enter Freq 2.441(	iwept SA Ω AC   DOOOOOO GHz PNO: Fa IFGain:Lo	sens st ↔ Trig: Free	BE:INT	Hz Ant1 /		lated	
j <mark>ilent Spectrum Analyzer - S</mark> RL RF 50	wept SA Ω AC   D000000 GHz PN0: Fa IFGain:Lo 2.6 dB	sens st ↔ Trig: Free	BE:INT	Hz Ant1 /		lated	
ilent Spectrum Analyzer - S RL RF S0 enter Freq 2.4410 Ref Offset 2 d dB/div Ref 20.00	wept SA Ω AC   D000000 GHz PN0: Fa IFGain:Lo 2.6 dB	sens st ↔ Trig: Free	BE:INT	Hz Ant1 /		lated	Auto Tuno Center Fred
gilent Spectrum Analyzer - S RL RF SO enter Freq 2.4410 Ref Offset O dB/div Ref 20.00	wept SA Ω AC   D000000 GHz PN0: Fa IFGain:Lo 2.6 dB	sens st ↔ Trig: Free	BE:INT	Hz Ant1 /		lated	Auto Tune Center Free
ilent Spectrum Analyzer - S RL RF S0 enter Freq 2.4410 Ref Offset 2 d dB/div Ref 20.00	wept SA Ω AC   D000000 GHz PN0: Fa IFGain:Lo 2.6 dB	sens st ↔ Trig: Free	BE:INT	Hz Ant1 /		lated	Auto Tune Center Free 2.441000000 GH:
Ref Offset 2 RL Ref Offset 2 Ref 2.441( Ref Offset 2 0 dB/div Ref 20.00	wept SA Ω AC   D000000 GHz PN0: Fa IFGain:Lo 2.6 dB	sens st ↔ Trig: Free	BE:INT	Hz Ant1 /		lated	Auto Tune Center Free 2.441000000 GH: Start Free
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Rel         RF         S0           enter Freq 2.4410         Ref Offset         Ref Offset           0 dB/div         Ref 20.00         Ref 20.00           0.0	wept SA Ω AC   D000000 GHz PN0: Fa IFGain:Lo 2.6 dB	sens st ↔ Trig: Free	BE:INT	Hz Ant1 /		lated	Auto Tune Center Frec 2.441000000 GH: Start Frec 2.441000000 GH: Stop Frec 2.441000000 GH: CF Step
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glient Spectrum Analyzer - 5 RL RF 50 enter Freq 2.441( Ref Offset 2 dB/div Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0	wept SA Ω AC   D000000 GHz PN0: Fa IFGain:Lo 2.6 dB	sens st ↔ Trig: Free	BE:INT	Hz Ant1 /		lated	Auto Tune Center Frec 2.441000000 GH: Start Frec 2.441000000 GH: Stop Frec 2.441000000 GH: CF Step 1.000000 MH: Auto Mar
plient Spectrum Analyzer - 5 RL RF 90 enter Freq 2.441( Ref Offset 2 0 dB/div Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0	wept SA Ω AC   D000000 GHz PN0: Fa IFGain:Lo 2.6 dB	sens st ↔ Trig: Free	BE:INT	Hz Ant1 /		lated	Start Free           2.441000000 GH:           Start Free           2.441000000 GH:           Stop Free           2.441000000 GH:           Stop Free           2.441000000 GH:           CF Step           1.000000 MH:           Auto           Mar           Freq Offset
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Riem         Spectrum         Analyzer         Spectrum           RL         RF         50           enter         Freq         2.4410           Ref         Offset         2           0 dB/div         Ref         20.00           0 0	image: SA         Image: SA           Image: SA         Image: SA	sens st ↔ Trig: Free	BE:INT	Hz Ant1 /		lated	Auto Tune Center Free 2.441000000 GH: Start Free 2.441000000 GH: Stop Free 2.441000000 GH: CF Step 1.000000 MH





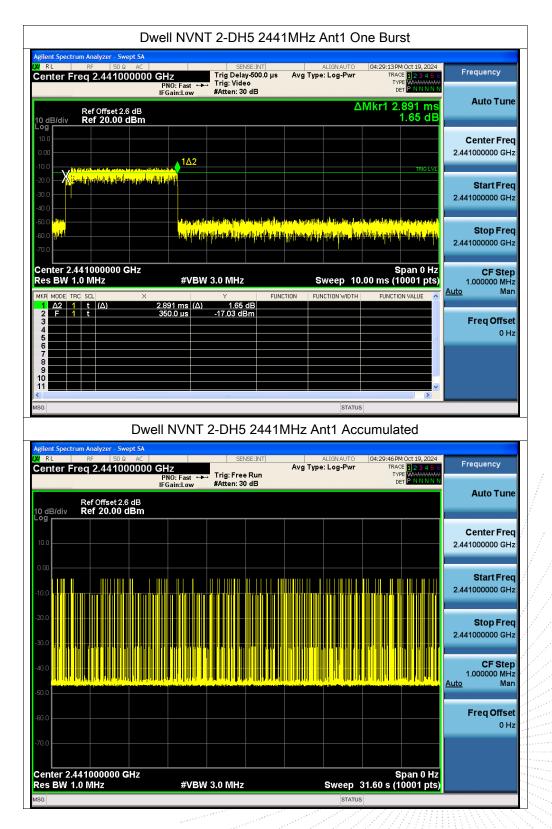
gilent Spectrum Analyzer -						
RL RF 5 Center Freq 2.441		SENSE:IN Trig Delay-500 Trig: Video			24 PM Oct 19, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N N	Frequency
Ref Offse 0 dB/div Ref 20.0	IFGain:Low_	#Atten: 30 dB		ΔMkr	^{Det P NNNNN} 1 391.0 μs 1.58 dB	Auto Tune
eg 10.0 2.00 ↓1Δ2						Center Freq 2.441000000 GHz
10.0 <b>2</b> .0 20.0 <b>3</b> 0.0 <b>4</b> 0.0 <b>4</b> 0.0						<b>Start Freq</b> 2.441000000 GHz
50.0 <mark>and 40</mark> 50.0 <mark>december 1910 (1954)</mark> 70.0	<mark>lan ing kanalang sa kanalan ing kanalan kanalan kanalan kanalan kanalan kanalan kanalan kanalan kanalan kanalan Analan kanalan k</mark>	n de glachte per de glachte de glachte de glachte per de glachte glachte de glachte de glachte de glachte de g de glachte per de glachte de glacht		han ( farles ( ) ( ) darma <mark>  latel program in propria</mark> t)	energian a faran an a	<b>Stop Freq</b> 2.441000000 GHz
enter 2.44100000 tes BW 1.0 MHz		W 3.0 MHz	Sw	eep 10.00 ms	Span 0 Hz (10001 pts)	CF Step 1.000000 MHz
KR MODE TRC SCL 1 Δ2 1 t (Δ) 2 F 1 t	× 391.0 µs (∆ 498.0 µs	Y ) 1.58 dB -6.88 dBm	FUNCTION FUNCT	ION WIDTH FUI	NCTION VALUE	<u>Auto</u> Man
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9 10 11						
G				STATUS	>	
	Dwell NVN	2-DH1 24	141MHz Ant	1 Accumu	lated	
RL RF 5	- Swept SA 50 Ω AC 10000000 GHz PN0: Fast +	SENSE:IN	T ALI Avg Type: L	IGN AUTO 04:17:	57 PM Oct 19, 2024 TRACE 12 3 4 5 6	Frequency
RL RF S enter Freq 2.44 ⁴ Ref Offsel	Swept SA 50 Ω AC   10000000 GHz PN0: Fast - IFGain:Low t 2.6 dB	SENSE:IN	T ALI Avg Type: L	IGN AUTO 04:17:	57 PM Oct 19, 2024	
RL RF 15 enter Freq 2.44 Ref Offsel 0 dB/div Ref 20.0	Swept SA 50 Ω AC   10000000 GHz PN0: Fast - IFGain:Low t 2.6 dB	SENSE:IN	T ALI Avg Type: L	IGN AUTO 04:17:	57 PM Oct 19, 2024 TRACE 12 3 4 5 6	Auto Tune Center Freq
RL RF 15	Swept SA 50 Ω AC   10000000 GHz PN0: Fast - IFGain:Low t 2.6 dB	SENSE:IN	T ALI Avg Type: L	IGN AUTO 04:17:	57 PM Oct 19, 2024 TRACE 12 3 4 5 6	Auto Tune Center Freq 2.441000000 GHz Start Freq
Ref Offse 0 dB/div Ref 20.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Swept SA 50 Ω AC   10000000 GHz PN0: Fast - IFGain:Low t 2.6 dB	SENSE:IN	T ALI Avg Type: L	IGN AUTO 04:17:	57 PM Oct 19, 2024 TRACE 12 3 4 5 6	Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz
Ref Offset 0 dB/div Ref 20.0 0 00 0 00 0 00 0 00 0 00 0 00 0 00	Swept SA 50 Ω AC   10000000 GHz PN0: Fast - IFGain:Low t 2.6 dB	SENSE:IN	T ALI Avg Type: L	IGN AUTO 04:17:	57 PM Oct 19, 2024 TRACE 12 3 4 5 6	Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz 2.441000000 GHz 2.441000000 GHz 1.000000 MHz Auto Man
RL         RF         S           enter Freq 2.447         Ref Offset         Ref Offset           0.4B/div         Ref 20.0         Ref 20.0           0.0	Swept SA 50 Ω AC   10000000 GHz PN0: Fast - IFGain:Low t 2.6 dB	SENSE:IN	T ALI Avg Type: L	IGN AUTO 04:17:	57 PM Oct 19, 2024 TRACE 12 3 4 5 6	Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz
enter Freq 2.44 ⁴	Swept SA 50 Q AC 1000000 GHz PN0: Fast - IFGain:Low t2.6 dB 10 dBm	SENSE:IN		IGN AUTO 04:17:	57PM Oct 19, 2024	Start Free           2.441000000 GHz           2.441000000 GHz           Start Free           2.441000000 GHz           Stop Free           2.441000000 GHz           Stop Free           2.441000000 GHz           CF Step           1.000000 MHz           Auto           Freq Offset





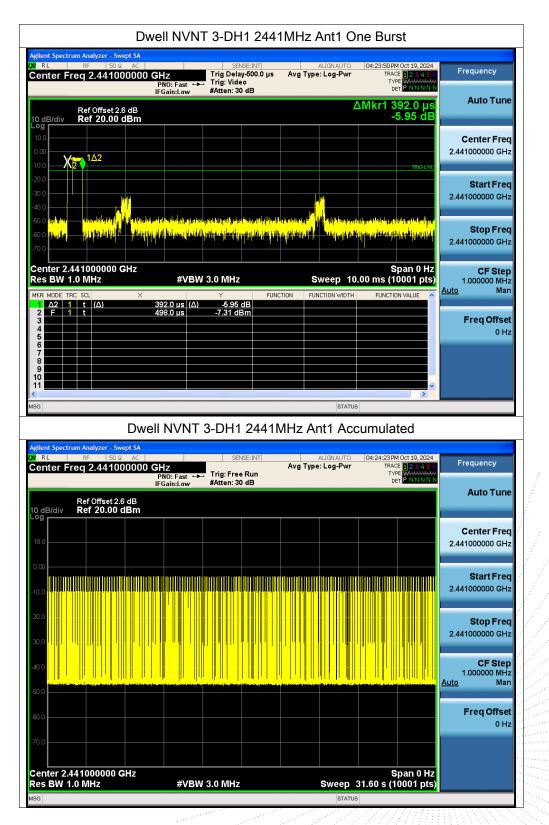








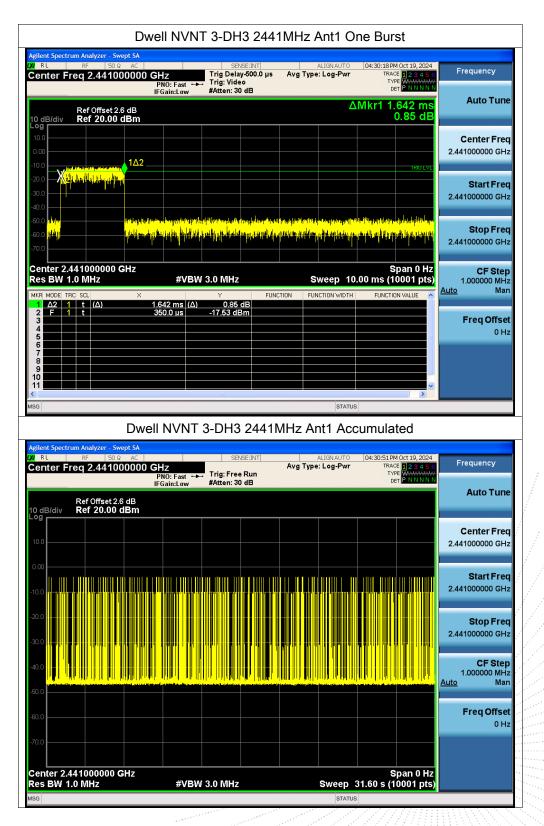




JC JC PPR

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	ept SA		4170114			
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enter 2.441000000 es BW 1.0 MHz		W 3.0 MHz	Sweep	Sp 10.00 ms (10	an 0 Hz 001 pts)	CF Step 1.000000 MH:
KR MODE TRC SCL $1 \Delta 2 1 t (\Delta)$	× 2.893 ms (∆	∨ ) -0.74 dB	FUNCTION FUNCTION	VIDTH FUNCTION	VALUE	<u>luto</u> Mar
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4 5 6						0 H:
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				STATUS		
G		Г 3-DH5 244	1MHz Ant1			
G ilent Spectrum Analyzer - Sw RL RF 50 Ω	ept SA AC	T 3-DH5 244	1MHz Ant1		ed	Frequency
G ilent Spectrum Analyzer - Sw RL RF 50 Ω	ept SA AC DOOOOO GHz PNO: Fast ~	SENSE:INT	1MHz Ant1		ed	Frequency
G glent Spectrum Analyzer - Sw RL RF 50Ω enter Freq 2.44100 Ref Offset 21	ept SA AC D00000 GHz PN0: Fast IFGain:Low	SENSE:INT	1MHz Ant1		ed	
G glent Spectrum Analyzer - Sw RL RF 50 Ω enter Freq 2.44100 Ref Offset 2.0 0 dB/div Ref 20.00 0	ept SA AC D00000 GHz PN0: Fast IFGain:Low	SENSE:INT	1MHz Ant1		ed	
G ilent Spectrum Analyzer - Sw RL RF 50 Ω enter Freq 2.44100 Ref Offset 2.1 Ref 20.00 0	ept SA AC D00000 GHz PN0: Fast IFGain:Low	SENSE:INT	1MHz Ant1		ed	Auto Tun Center Free
G glient Spectrum Analyzer - Sw RL RF 50 ∞ enter Freq 2.44100 Ref Offset 2.1 Ref Offset 2.0 0 dB/div Ref 20.00 0	ept SA AC D00000 GHz PN0: Fast IFGain:Low	SENSE:INT	1MHz Ant1		ed	Auto Tuno Center Fred
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G ilent Spectrum Analyzer - Sw RL RF 50 Q enter Freq 2.4410( Ref Offset 2.1 Ref 20.00 ( 0.0	ept SA AC D00000 GHz PN0: Fast IFGain:Low	SENSE:INT	1MHz Ant1		ed	Auto Tune Center Free 2.44100000 GH Start Free
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No.: BCTC/RF-EMC-005



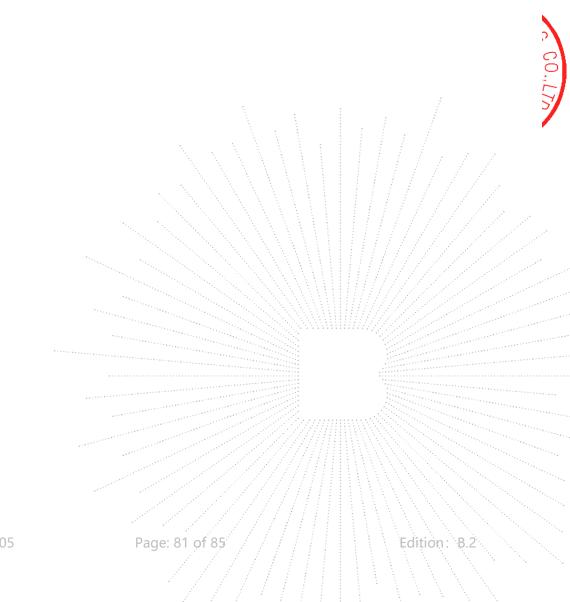
## 15. Antenna Requirement

#### 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

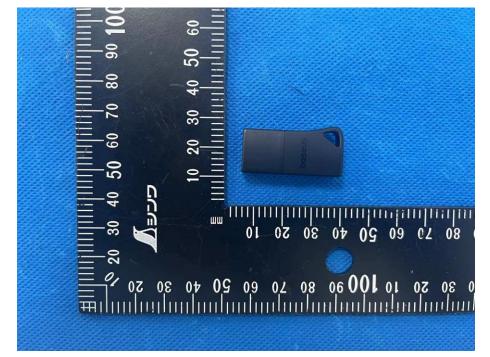
The EUT antenna is Internal antenna, fulfill the requirement of this section.





## 16. EUT Photographs

EUT Photo



NOTE: Appendix-Photographs Of EUT Constructional Details

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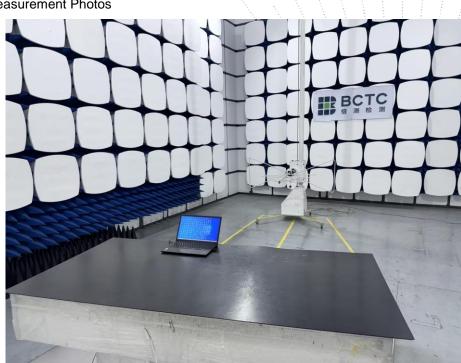
# 17. EUT Test Setup Photographs

Conducted emissions





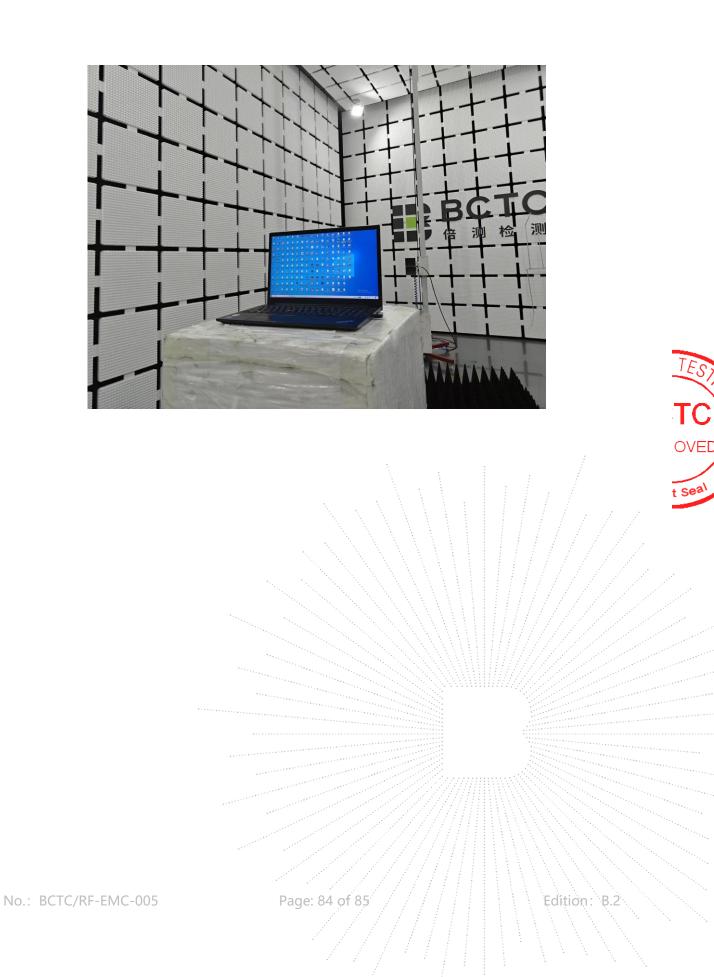
Radiated Measurement Photos



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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

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FAX: 0755-33229357

Website: http://www.chnbctc.com

Consultation E-mail: bctc@bctc-lab.com.cn

Complaint/Advice E-mail: advice@bctc-lab.com.cn

***** END *****

No.: BCTC/RF-EMC-005

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