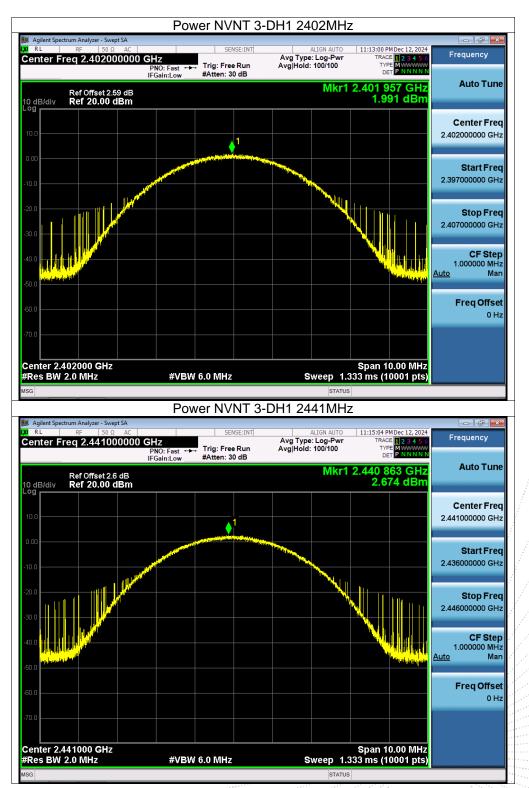


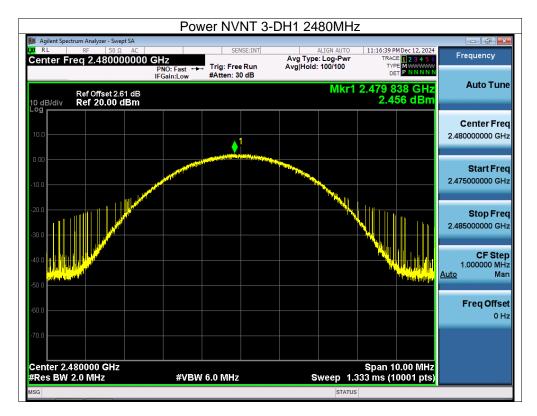
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12. Hopping Channel Separation

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.

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	2401.988	2402.99	1.002	0.571	Pass
NVNT	1-DH1	2440.988	2441.986	0.998	0.554	Pass
NVNT	1-DH1	2478.986	2479.984	0.998	0.569	Pass
NVNT	2-DH1	2401.99	2402.99	1	0.829	Pass
NVNT	2-DH1	2440.986	2441.988	1.002	0.821	Pass
NVNT	2-DH1	2478.98	2479.98	1	0.81	Pass
NVNT	3-DH1	2401.99	2402.99	1	0.808	Pass
NVNT	3-DH1	2440.988	2441.988	1	0.807	Pass
NVNT	3-DH1	2478.986	2479.986	1	0.807	Pass

12.4 Test Result





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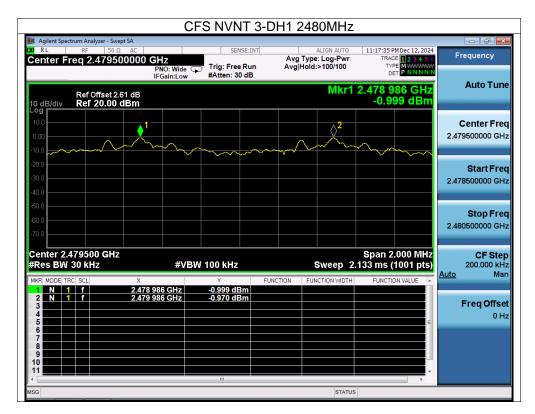
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13. Number Of Hopping Frequency

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.

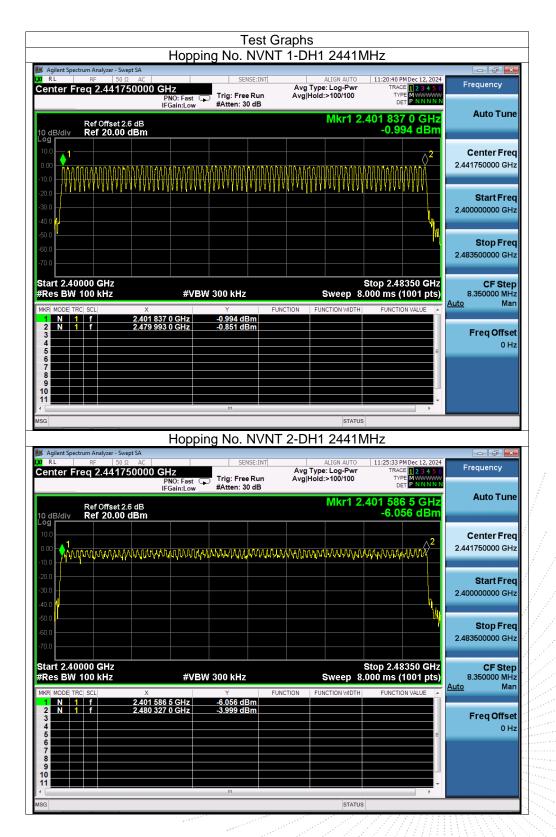
3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.
4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz. Sweep=auto;

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

No.: BCTC/RF-EMC-005









Нор	ping No. NVNT	3-DH1 2441M	1Hz	
Agilent Spectrum Analyzer - Swept SA X R L RF 50 Ω AC	SENSE:INT	ALIGN AUTO	11:29:43 PM Dec 12, 2024	
Center Freq 2.441750000 GHz PNO: Fas IFGain:Lo		Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N	Frequency
Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm		Mkr1 2.	401 837 0 GHz -1.402 dBm	Auto Tune
	vwwwwwww	www.www.www.		Center Freq 2.441750000 GHz
-20.0				Start Freq 2.400000000 GHz
-50.0 -60.0 -70.0			<mark>۴′′۲</mark>	Stop Freq 2.483500000 GHz
Start 2.40000 GHz #Res BW 100 kHz #	/BW 300 kHz		Stop 2.48350 GHz 000 ms (1001 pts)	CF Step 8.350000 MHz
MKR MODE TRC SCL X 1 N 1 f 2.401 837 0 GHz 2 N 1 f 2.480 160 0 GHz 3 3 3 3 3	-1.402 dBm	CTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man Freq Offset
3 4 5 6 7			= =	0 Hz
8 9 9 10 10 10 11 10 10 10 10 10 10 10 10 10				
MSG	m	STATUS	P.	





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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).

Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	0.412	131.428	319	31600	400	Pass
NVNT	1-DH3	2441	1.669	258.695	155	31600	400	Pass
NVNT	1-DH5	2441	2.915	279.84	96	31600	400	Pass
NVNT	2-DH1	2441	0.422	134.196	318	31600	400	Pass
NVNT	2-DH3	2441	1.673	252.623	151	31600	400	Pass
NVNT	2-DH5	2441	2,921	271.653	93	31600	400	Pass
NVNT	3-DH1	2441	0.423	134.937	319	31600	400	Pass
NVNT	3-DH3	2441	1.674	276.21	165	31600	400	Pass
NVNT	3-DH5	2441	2.924	336.26	115	31600	400	Pass

14.4 Test Result

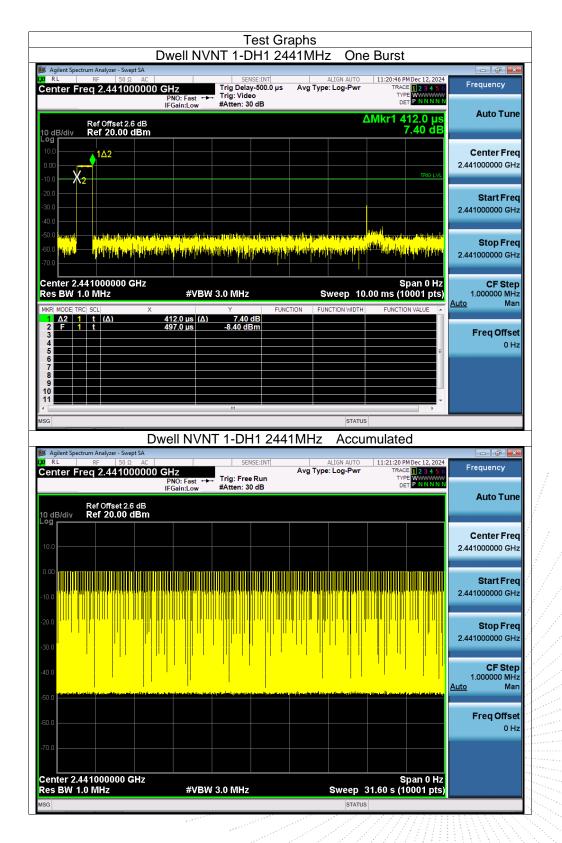
Note: Total Dwell Time (ms) = Pulse Time (ms)*Burst Count

ТC

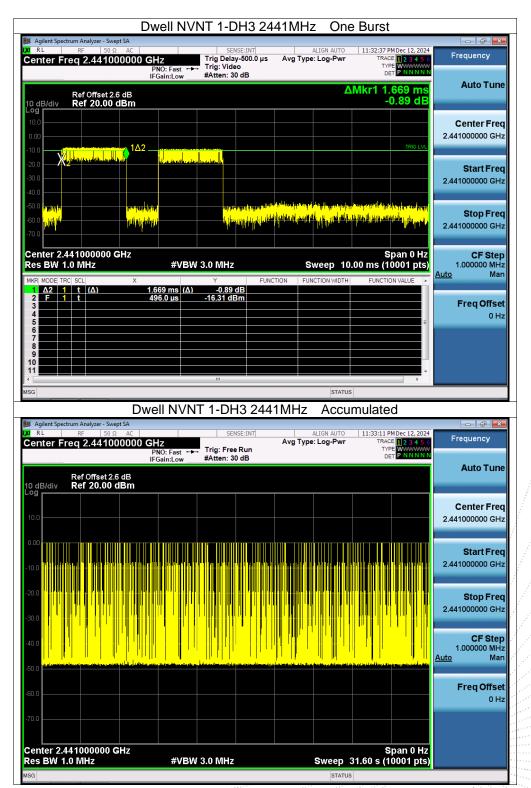
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0 dB/div Ref 20.00 dBm 99 0.0	1Δ2			TRIG LVL	Center Fre 2.441000000 GH
					Start Fre 2.441000000 GH
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enter 2.441000000 GHz es BW 1.0 MHz	#VBW 3.0 MH	z	Sweep 10.00	Span 0 Hz ms (10001 pts)	CF Stej 1.000000 MH
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3			STATUS		
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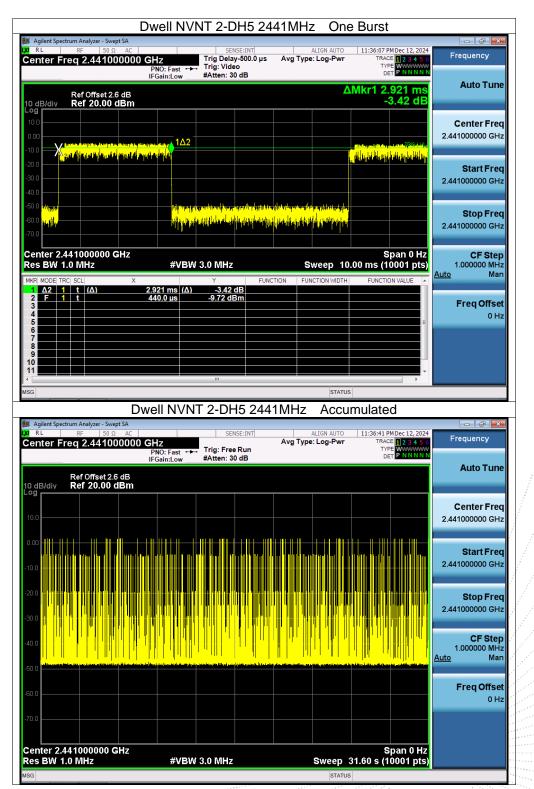


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Center Freq 2.441000000 GHz Span 0 Hz Span 0 Hz	Ref Offset 2.6	dB			ΔMkr1	422.0 μs	Auto Tune
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Start Fre 2.44100000 GHz SBW 1.0 MHz SBW	0.0						
Image: Status in a stat	0.0						Start Free 2.441000000 GH
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nter Freq 2.4410000	PNO: Fast ++	Trig Delay-500.0 Trig: Video	µs Avg Type:Lo	og-Pwr	TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P NNNN	Frequency
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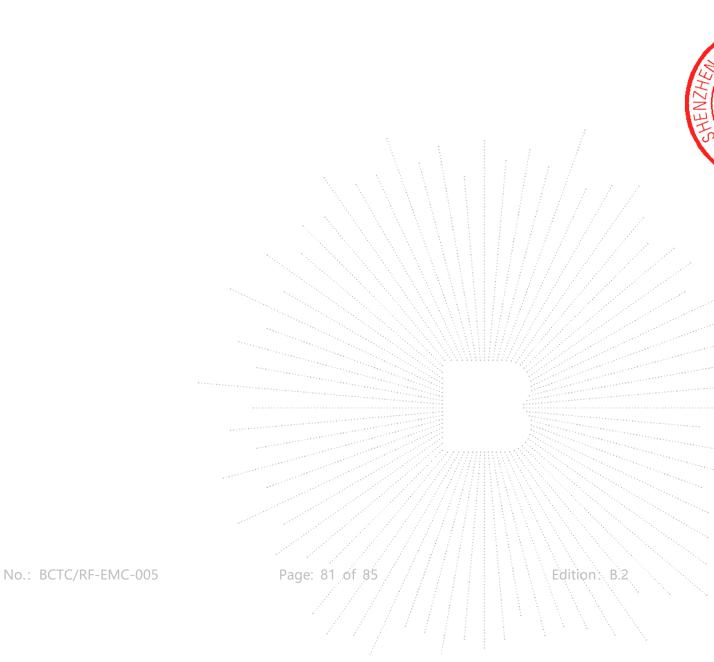
15. Antenna Requirement

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 Internal antenna, fulfill the requirement of this section.





16. EUT Photographs

EUT Photo 1







NOTE: Appendix-Photographs Of EUT Constructional Details.

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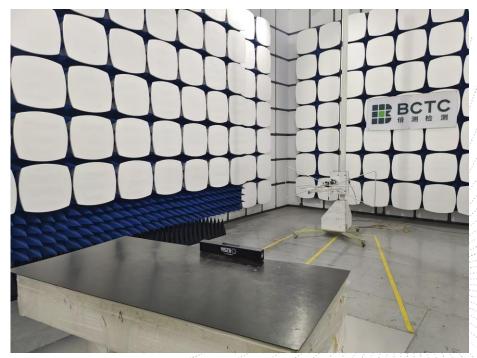


17. EUT Test Setup Photographs

Conducted Emissions Photo



Radiated Measurement Photos



No.: BCTC/RF-EMC-005

Edition: B.2

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No.: BCTC/RF-EMC-005

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Edition: B.2

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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.

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