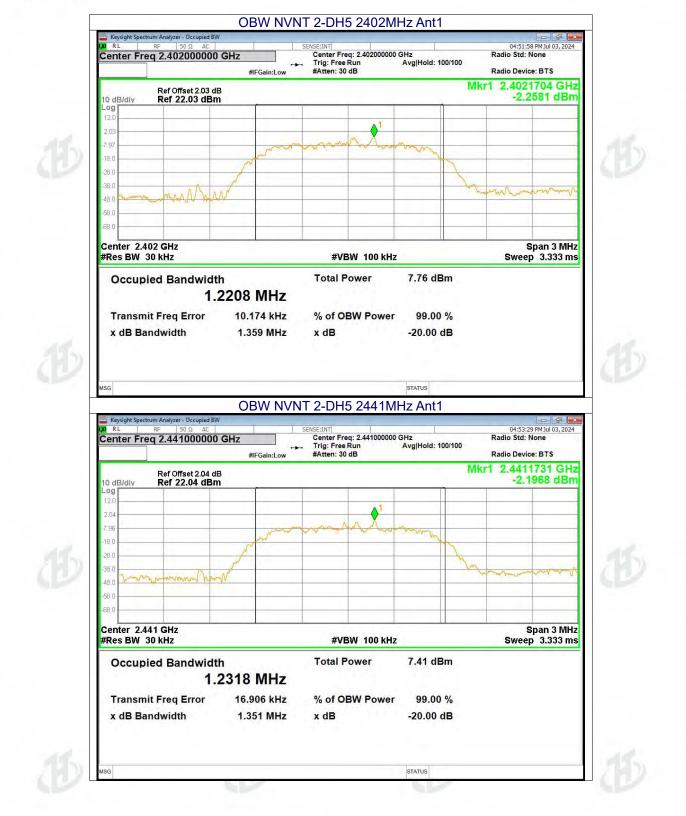
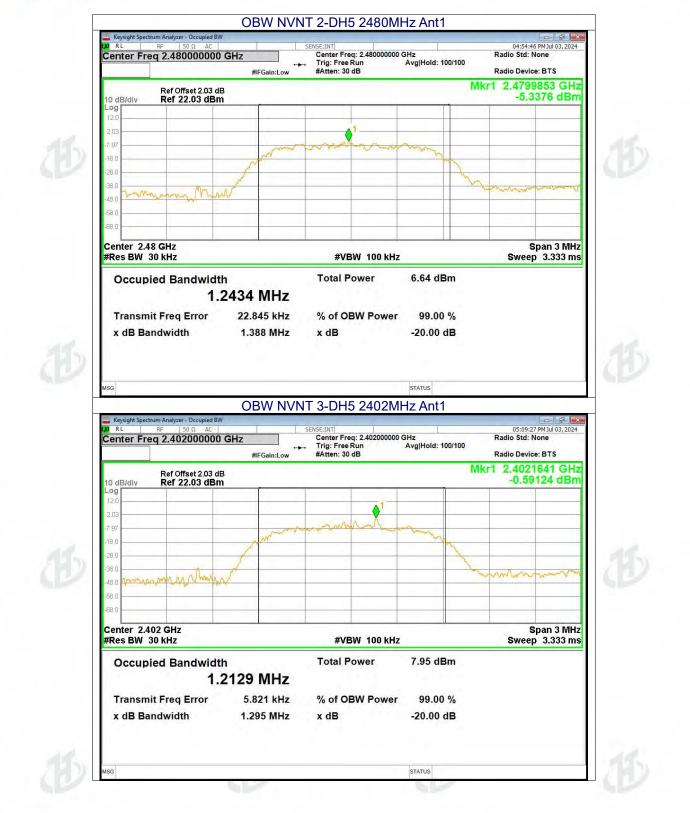


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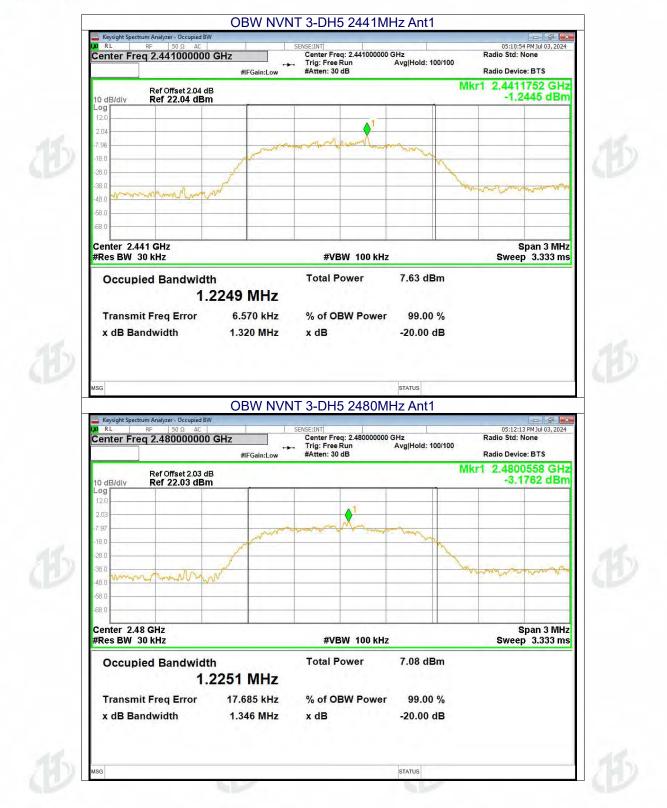


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8. Maximum Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(1), RSS 247 5.4 (b)
Test Method:	ANSI C63.10:2013

8.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

8.2 Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W.

8.3 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.

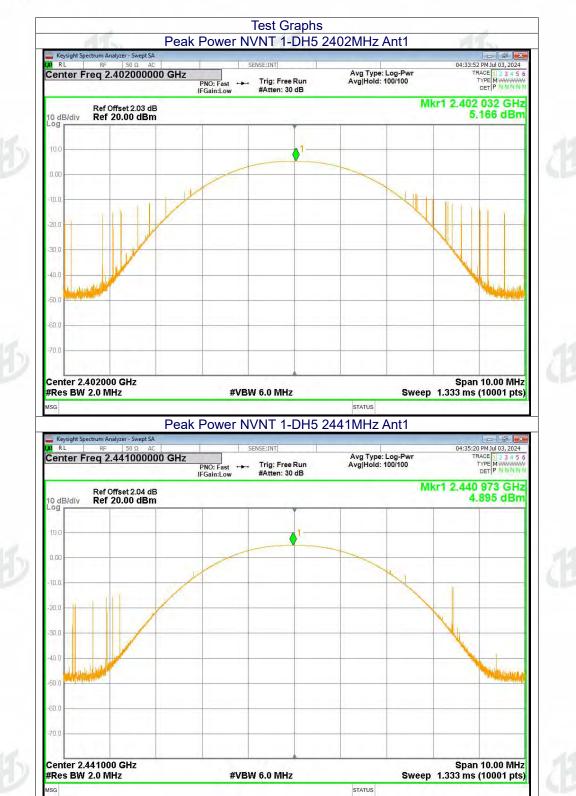
8.4 DEVIATION FROM STANDARD

No deviation.

8.5 Test Result

	2	Storage chip 1		
Mode	Test channel	Peak Output Power (dBm)	Peak Output Power Limit (dBm)	Result
	Lowest	5.17		
GFSK	Middle	4.89	21.00	Pass
	Highest	4.52		
	Lowest	2.68		
π/4DQPSK	Middle	2.47	21.00	Pass
	Highest	2.0	1.5	
	Lowest	3.1	0	
8DPSK	Middle	2.9	21.00	Pass
	Highest	2.4		







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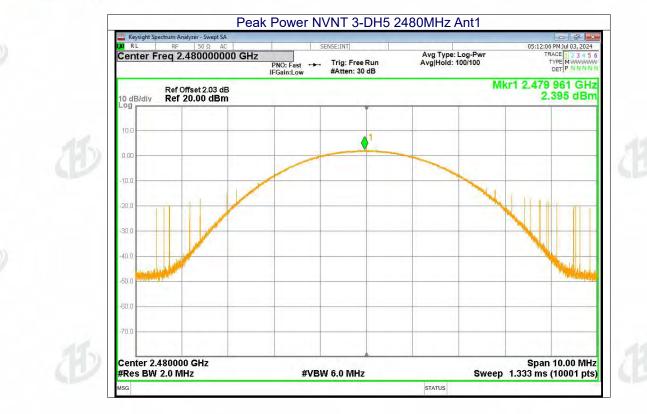


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1			Storage chip 2		
D	Mode	Test channel	Peak Output Power (dBm)	Peak Output Power Limit (dBm)	Result
		Lowest	5.05		
	GFSK	Middle	4.81	21.00	Pass
		Highest	4.49		
	(P)	Lowest	2.09		CP/
	π/4DQPSK	Middle	2.09	21.00	Pass
		Highest	2.07		
d		Lowest	2.94	44	
2	8DPSK	Middle	2.4	21.00	Pass
		Highest	2.37		

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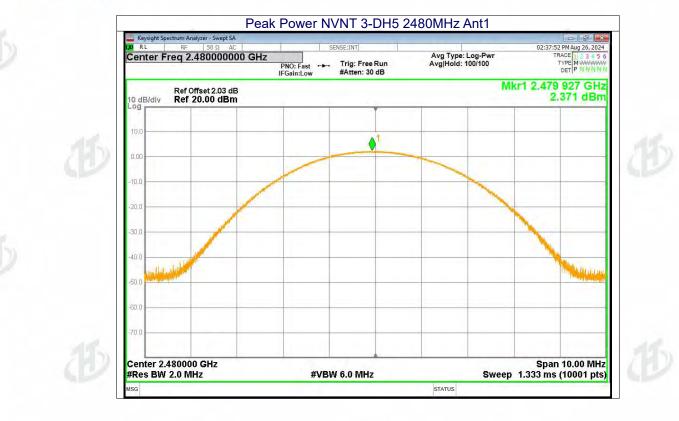


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9. HOPPING CHANNEL SEPARATION

Test Requirement:	FCC Part15 C Section 15.247 (a)(1), RSS 247 5.1
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=30KHz, VBW=100KHz, detector=Peak
Limit:	GFSK: 20dB bandwidth $\pi/4$ -DQPSK & 8DSK: 0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)

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9.1 Test Setup

EUT	SPECTRUM	
	ANALYZER	
		1

9.2 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.

9.3 DEVIATION FROM STANDARD No deviation.

9.4 Test Result

1.1	0)	1	D	
Modul	ation Sep	aration (MHz)	Limit(MHz)	Result
GFS	SK	0.964	0.674	PASS
π/4DC	PSK	0.988	0.908	PASS
8DP	SK	0.986	0.891	PASS











	Keysight Spe	ctrum Analyzer - Swept SA RF 50 Ω AC	1 1 6	ENSE:INT		05:14:00 PM Jul 03, 2024
		req 2.402500000 GHz		Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pw Avg Hold:>100/100	r TRACE 1 2 3 4 5
	10 dB/div	Ref Offset 2.03 dB Ref 20.00 dBm				Mkr1 2.402 172 GH: -1.530 dBn
	Log	Ref 20.00 dBill		*		
	10.0		A1			<u>0</u> 2
100	0.00		m		- 0 0M	X
100	-10.0	enter man to	And the second	- month	man have b	way many
6 2	-20.0					
	-30.0					
	-40,0					
	-50.0					
	-60.0					
	-70,0					
	Center 2.4 #Res BW	102500 GHz 30 kHz	#VBV	V 100 kHz	s	Span 2.000 MH weep 2.133 ms (1001 pts
	MKR MODE TR	f 2,402 172	GHz -1.530 c		FUNCTION WIDTH	FUNCTION VALUE
	2 N 3	f 2.403 158				
	4					
	5 6					
1	7 8					
1.5	9 10					
612	11					
the second se				m		F



10.NUMBER OF HOPPING FREQUENCY

And the second sec	
Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii), RSS-247 5.1
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=100kHz, VBW=300kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak
Limit:	15 channels
	23.5 P3.5 P3.5 P3.5

10.1 Test Setup

EUT	SPECTRUM
	ANALYZER

10.2 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;

10.3 DEVIATION FROM STANDARD

No deviation.



10.4 Test Result



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Center Freq 2.441750000	GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNN
Ref Offset 2.03 dB 10 dB/div Ref 20.00 dBm		Mkr1	2.401 920 5 GHz 4.648 dBm
10.0			<mark>2</mark>
-10.0	<u>FURAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</u>	<u>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</u>	MANNAAN
-20.0			
-30.0			
-50.0			- V
-60.0			
Start 2.40000 GHz		- Karlo	Stop 2.48350 GHz
#Res BW 100 kHz	#VBW 300 kHz		8.000 ms (1001 pts)
1 N 1 f 2.401	920 5 GHz 4.648 dBm 993 0 GHz 3.967 dBm		
3 4			
6			E
7 8 9			
10			
× [m		
MSG		STATUS	,
	Hopping No. NVNT 2-DH5	13 miles	
Keysight Spectrum Analyzer - Swept SA	Hopping No. NVNT 2-DH5	13 miles	- @ <u>×</u>
	GHz	2402MHz Ant1 Avg Type: Log-Pwr	05:04:09 PMJul 03, 2024 TRACE 2 3 4 5 6 TVPE M JANGON
Keysight Spectrum Analyzer - Swept SA	SENSE(INT	2402MHz Ant1 Avg Type: Log-Pwr Avg Hold:>100/100	05:04:09 PNJU 03, 2024 TRACE 12345 6 TYPE M WWWW DET P NNNN
Keysight Spectrum Analyzer - Swept SA Ki RL RF 50 Ω AC Center Freq 2.441750000 Ref Offset 2.03 dB 10 dB/div Ref 20.00 dBm	GHz SENSE:INT PNO: Fast Trig: Free Run	2402MHz Ant1 Avg Type: Log-Pwr Avg Hold:>100/100	05:04:09 PMJul 03, 2024 TRACE 2 3 4 5 6 TVPE M JANGON
Keysight Spectrum Analyzer - Swept SA R RL RF 50 Ω AC Center Freq 2.441750000 Ref Offset 2.03 dB	GHz SENSE:INT PNO: Fast Trig: Free Run	2402MHz Ant1 Avg Type: Log-Pwr Avg Hold:>100/100	05:04:09 PMJul 03, 2024 TRACE 23 4 5 6 TYPE WWWW DET P NNNN 2.401 837 0 GHz
Keysight Spectrum Analyzer - Swept SA Ref Offset 20.00 dBm Log Inclusion Analyzer - Swept SA Keysight Spectrum Analyzer - Swept Shept Spectrum Analyzer - Swept Spectrum Analyz	GHz SENSE:INT PNO: Fast Trig: Free Run	2402MHz Ant1 Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	05:04:09 PMJul 03, 2024 TRACE 12:3:4:5 6 TYPE MINING DET P NINNN 2.401 837 0 GHz -1.732 dBm
Keysight Spectrum Analyzer - Swept SA Ref Offset 2.03 dB I O d Keysight Ref 20.00 dBm I O d I O d I O d I O d I O d I O d I O d Keysight Ref 20.00 dBm I O d I O d I O d I O d I O d I O d I O d I O d	GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB	2402MHz Ant1 Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	05:04:09 PMJul 03, 2024 TRACE 12:3:4:5 6 TYPE MINING DET P NINNN 2.401 837 0 GHz -1.732 dBm
Keysight Spectrum Analyzer - Swept SA Ref Offset 20.00 dBm Log Inclusion Analyzer - Swept SA Keysight Spectrum Analyzer - Swept Shept Spectrum Analyzer - Swept Spectrum Analyz	GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB	2402MHz Ant1 Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	05:04:09 PMJul 03, 2024 TRACE 12:3:4:5 6 TYPE MINING DET P NINNN 2.401 837 0 GHz -1.732 dBm
Keysight Spectrum Analyzer - Swept SA Center Freq 2.441750000 Ref Offset 2.03 dB Ref Offset 2.03 dB Ref 20.00 dBm Output Output Ref 20.00 dBm Output Ref Offset 2.03 dB Output	GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB	2402MHz Ant1 Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	05:04:09 PMJul 03, 2024 TRACE 12:3:4:5 6 TYPE MINING DET P NINNN 2.401 837 0 GHz -1.732 dBm
Keysight Spectrum Analyzer - Swept SA Keysight Spectrum Analyzer - Swept SA Keysight Spectrum Analyzer - Swept SA Center Freq 2.441750000 Ref Offset 2.03 dB 10 dB/div Ref 20.00 dBm 0.00 1	GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB	2402MHz Ant1 Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	05:04:09 PMJul 03, 2024 TRACE 12 3:45 6 TYPE MWWW DET P NNNN 2.401 837 0 GHz -1.732 dBm
Keysight Spectrum Analyzer - Swept SA Keysight Spectrum Analyzer - Swept SA Keysight Spectrum Analyzer - Swept SA Center Freq 2.441750000 Ref Offset 2.03 dB 10 dB/div Ref 20.00 dBm 10 dB/div Ref 20.00 dBm 20 dB/div Ref 20.00 dBm 10 dB/div Ref 20.00 dBm	GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB	2402MHz Ant1 Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	05:04:09 PMJul 03, 2024 TRACE 12:3:4:5 6 TYPE MINING DET P NINNN 2.401 837 0 GHz -1.732 dBm
Keysight Spectrum Analyzer - Swept SA Keysight Spectrum Analyzer - Swept SA Keysight Spectrum Analyzer - Source Source Center Freq 2.441750000 Ref Offset 2.03 dB 10 dB/div Ref 20.00 dBm 0.00 Ref 20.00 dBm 0.00 <t< td=""><td>GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB</td><td>2402MHz Ant1 Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1</td><td>05:04:09 PM Jul 03, 2024 TRACE 12:34:56 TYPE MWWW DET P NINNN 2.401 837 0 GHz -1.732 dBm</td></t<>	GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB	2402MHz Ant1 Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	05:04:09 PM Jul 03, 2024 TRACE 12:34:56 TYPE MWWW DET P NINNN 2.401 837 0 GHz -1.732 dBm
Keysight Spectrum Analyzer - Swept SA Keysight Spectrum Analyzer - Swept SA Keysight Spectrum Analyzer - Swept SA Center Freq 2.441750000 Ref Offset 2.03 dB 10 dB/div Ref 20.00 dBm 10 dB/div Ref 20.00 dBm 20 dB/div Ref 20.00 dBm 10 dB/div Ref 20.00 dBm	GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB	2402MHz Ant1	05:04:09 PMJul 03, 2024 TRACE 12 3:45 6 TYPE MWWW DET P NNNN 2.401 837 0 GHz -1.732 dBm
Keysight Spectrum Analyzer - Swept SA R S0 R AC Center Freq 2.441750000 Ref Offset 2.03 dB 0 dB/div Ref 20.00 dBm 10 dB/	GHz PNO: Fast PNO: Free Run IFGain:Low Trig: Free Run #Atten: 30 dB	2402MHz Ant1	05:04:09 PMJul 03, 2024 TRACE 2: 3: 4: 5: 6 TYPE MWWW DET P NNNN 2.401 837 0 GHz -1.732 dBm
Resignt Spectrum Analyzer - Swept SA R 50 R AC Center Freq 2.441750000 Ref Offset 2.03 dB 10 dB/div Ref 20.00 dBm	GHz PNO: Fast PTrig: Free Run IFGain:Low #Atten: 30 dB	2402MHz Ant1	05:04:09 PMJul 03, 2024 TRACE 12 3:45 6 TYPE MWWW DET P NNNN DET P NNNN 2.401 837 0 GHz -1.732 dBm
Keysight Spectrum Analyzer - Swept SA XR RE 50 2 AC Center Freq 2.441750000 Ref Offset 2.03 dB D <thd< td="" th<=""><td>GHz PNO: Fast PNO: Fast Free Run IFGain:Low Fast PNO: Free Run #Atten: 30 dB #VBW 300 kHz #VBW 300 kHz FUNCTION 837 0 GHz -1.732 dBm</td><td>2402MHz Ant1</td><td>05:04:09 PMJul 03, 2024 TRACE 12 3:45 6 TYPE MWWW DET P NNNN DET P NNNN 2.401 837 0 GHz -1.732 dBm</td></thd<>	GHz PNO: Fast PNO: Fast Free Run IFGain:Low Fast PNO: Free Run #Atten: 30 dB #VBW 300 kHz #VBW 300 kHz FUNCTION 837 0 GHz -1.732 dBm	2402MHz Ant1	05:04:09 PMJul 03, 2024 TRACE 12 3:45 6 TYPE MWWW DET P NNNN DET P NNNN 2.401 837 0 GHz -1.732 dBm
Resignt Spectrum Analyzer - Swept SA R 50 R AC Center Freq 2.441750000 Ref Offset 2.03 dB 10 dB/div Ref 20.00 dBm	GHz PNO: Fast PNO: Fast Free Run IFGain:Low Fast PNO: Free Run #Atten: 30 dB #VBW 300 kHz #VBW 300 kHz FUNCTION 837 0 GHz -1.732 dBm	2402MHz Ant1	05:04:09 PMJul 03, 2024 TRACE 12 3:45 6 TYPE MWWW DET P NNNN DET P NNNN 2.401 837 0 GHz -1.732 dBm



LXI RL	ectrum Analyzer - Swept SA RF 50 Ω AC req 2.44175000	O GHz	SENSE INT		Avg Type: Avg Hold:>		05:06:07 TR	PMJul 03, 202 ACE 1 2 3 4 TYPE M WWW DET P NNN
1.	Ref Offset 2.04 dE	IFGair 3	n:Low #Atten: 3	u dB		Mkr	2.401 8	37 0 GI
10 dB/div	Ref 20.00 dBm			Y			-1.	591 dB
0.00	MACANANAN	nunhanan	war wat from the state of the	Mananah	nachridaan	Annak	under a M	
-10.0						4.141144		10101
-20.0								
-40,0 -								
-60.0								
-70.0								
Start 2.40 #Res BW			#VBW 300 kH	z		Sweep	Stop 2.4 8.000 ms	48350 G (1001 p
	f 2.40	4 1 837 0 GHz	-1.591 dBm	NCTION FUNC	TION WIDTH	FL	INCTION VALUE	
2 N 3 4	f 2.48	0 410 5 GHz	-3.389 dBm					
5								
7 8 9								
10 11								
			10					
MSG					STATUS			
		Hopping	No. NVNT 2	-DH5 24	1.1.1.1.1.1	Ant1		
Keysight Sp	ectrum Analyzer - Swept SA RF 50 Ω AC	I. I	No. NVNT 2	-DH5 24	80MHz /		05:07:51 TR	PMJul 03, 20:
Keysight Sp		00 GHz	SENSE:INT	e Run	1.1.1.1.1.1	Log-Pwr	TR	PM Jul 03, 20
Keysight Sp W RL Center F	RF 50 Ω AC Treq 2.44175000 Ref Offset 2.03 dE	00 GHz PNO: IFGain	SENSE:INT	e Run	80MHz /	Log-Pwr 100/100	1 2.401 6	PMJul 03, 20. ACE 1 2 3 4 TYPE MWWW DET P NNN
Keysight Sp	RF 50Ω AC Treq 2.44175000	00 GHz PNO: IFGain	SENSE:INT	e Run	80MHz /	Log-Pwr 100/100	1 2.401 6	PMJul 03, 20. ACE 1 2 3 4 TYPE MWWW DET P NNN
Log 10 dB/div 0.00 - 1 0.00 - 1	RF 50 Ω AC req 2.44175000 Ref Offset 2.03 dE Ref 20.00 dBm	DO GHz PNO: IFGain	SENSE:INT	e Run 0 dB	80MHz /	Log-Pwr 100/100 Mkr	™ 1 2.401 6 -3.	PMJul 03, 20 ACE 1 2 3 4 TYPE MWWW DET P NNN 70 0 GH 515 dB
Center F	RF 50 Ω AC req 2.44175000 Ref Offset 2.03 dE Ref 20.00 dBm	DO GHz PNO: IFGain	SENSE UNT Fast Trig: Fre n:Low #Atten: 2	e Run 0 dB	80MHz /	Log-Pwr 100/100 Mkr	1 2.401 6	PMJul 03, 20 ACE 1 2 3 4 TYPE MWWW DET P NNN 70 0 GH 515 dB
10 dB/div Log 10.00 -20.0 -30.0	RF 50 Ω AC req 2.44175000 Ref Offset 2.03 dE Ref 20.00 dBm	DO GHz PNO: IFGain	SENSE UNT Fast Trig: Fre n:Low #Atten: 2	e Run 0 dB	80MHz /	Log-Pwr 100/100 Mkr	™ 1 2.401 6 -3.	PMJul 03, 20 ACE 1 2 3 4 TYPE MWWW DET P NNN 70 0 GH 515 dB
10 dB/div Log 10.00 -10.0 -20.0	RF 50 Ω AC req 2.44175000 Ref Offset 2.03 dE Ref 20.00 dBm	DO GHz PNO: IFGain	SENSE UNT Fast Trig: Fre n:Low #Atten: 2	e Run 0 dB	80MHz /	Log-Pwr 100/100 Mkr	™ 1 2.401 6 -3.	PMJul 03, 20 ACE 1 2 3 4 TYPE MWWW DET P NNN 70 0 GH 515 dB
10 dB/div Log 10.00 -20.0 -30.0 -60.0	RF 50 Ω AC req 2.44175000 Ref Offset 2.03 dE Ref 20.00 dBm	DO GHz PNO: IFGain	SENSE UNT Fast Trig: Fre n:Low #Atten: 2	e Run 0 dB	80MHz /	Log-Pwr 100/100 Mkr	™ 1 2.401 6 -3.	PMJul 03, 200 AACE 1 2 3 4 TYPE MWWW DET P NNN 70 0 GH 515 dB
Keysight Sp Keysight Sp Center F 10 dB/dlv Log 10.0 0.00 -20.0 -30.0 -40.0 -50.0 -70.0	RF 50 2 AC req 2.44175000 Ref Offset 2.03 dE Ref 20.00 dBm	DO GHz PNO: IFGain	SENSE UNT Fast Trig: Fre n:Low #Atten: 2	e Run 0 dB	80MHz /	Log-Pwr 100/100 Mkr	τε 1 2.401 6 -3. ηγιλελητιμοτικό	PMJU03.20 ACE 234 TYPE MWWW DET P NNN 70 0 GH 515 dB
10 dB/div Log 10.00 -20.0 -30.0 -60.0	RF 50 2 AC ireq 2.44175000 Ireq 2.44175000 Ireq 2.44175000 Ref Offset 2.03 dE Ref 20.00 dBm Ireq 1.44175000 Image: Area of the second	DO GHz PNO: IFGain	SENSE UNT Fast Trig: Fre n:Low #Atten: 2	e Run 0 dB	80MHz /	Log-Pwr 100/100 Mkr'	τε 1 2.401 6 -3. ηγιλελητιμοτικό	PMJU03,22 YYPE MWWW DET P NMM 70 0 GI 515 dB
Keysight Sp Keysight Sp RL Center F 10 dB/div Log 10.0 .000	RF 50 2 AC ireq 2.44175000 Ref Offset 2.03 dE Ref 20.00 dBm Image: Set 200 dBm 0000 GHz 100 KHz reg Set 200 dBm	20 GHz PNO: IFGain 3	SENSELINT Fast Trig: Fre #Atten: 3 #Atten: 3 #VBW 300 kH 3.515 dBm	e Run 0 dB	80MHz /	Log-Pwr 100/100 Mkr Mhh Mhh Sweep	۲۳ 2.401 6: -3. ۳/۱۰۰۰ ۲۰۵۰ ۲۰۰۰ ۳/۱۰۰۰ ۲۰۰۰ Stop 2	PMJU03,22 YYPE MWWW DET P NMM 70 0 GI 515 dB
Keysight Sp Keysight Sp RL Center F 10 dB/div Log 10.0	RF 50 2 AC ireq 2.44175000 Ref Offset 2.03 dE Ref 20.00 dBm Image: Set 200 dBm 0000 GHz 100 KHz reg Set 200 dBm	DO GHz PNO: IFGai	SENSE(INT Fast Trig: Fre #Atten: 3 Individuor And Fachta Individuor And Fachta #VBW 300 kH	e Run 0 dB	80MHz /	Log-Pwr 100/100 Mkr Mhh Mhh Sweep	۲۳ -3. ۲۶ ۲۶ -3. -3. -3. -3. -3. -3. -3. -3. -3. -3.	PMJU03.20 ACE 234 YPE MWW DET P NNN 70 0 GH 515 dB
Keysight Sp Keysight Sp Center F 10 dB/div Log 10.0 0.00 -10.0 -20.0 -30.0 -50.0 -50.0 -70.0 Start 2.4L MRR Model 1 2 3 4 5 6	RF 50 2 AC ireq 2.44175000 Ref Offset 2.03 dE Ref 20.00 dBm Image: Set 200 dBm 0000 GHz 100 KHz reg Set 200 dBm	20 GHz PNO: IFGain 3	SENSELINT Fast Trig: Fre #Atten: 3 #Atten: 3 #VBW 300 kH 3.515 dBm	e Run 0 dB	80MHz /	Log-Pwr 100/100 Mkr Mhh Mhh Sweep	۲۳ -3. ۲۶ ۲۶ -3. -3. -3. -3. -3. -3. -3. -3. -3. -3.	PMJU03.20 ACE 234 YPE MWW DET P NNN 70 0 GH 515 dB
Keysight Sp XI Center F 10 dB/div Log 10.00 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Start 2.44 Res BW MRR MODE II 1 N 2 N 3 4 5	RF 50 20 AC req 2.44175000 Ref Offset 2.03 dE Ref 20.00 dBm Image: Second state states	20 GHz PNO: IFGain 3	SENSELINT Fast Trig: Fre #Atten: 3 #Atten: 3 #VBW 300 kH 3.515 dBm	e Run 0 dB	80MHz /	Log-Pwr 100/100 Mkr Mhh Mhh Sweep	۲۳ -3. ۲۶ ۲۶ -3. -3. -3. -3. -3. -3. -3. -3. -3. -3.	PMJU03.20 ACE 234 YPE MWW DET P NNN 70 0 GH 515 dB



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	SHZ PNO: Fast IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr Avg Hold:>100/100	05:14:15 PM Jul 03, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N
Ref Offset 2.03 dB 10 dB/div Ref 20.00 dBm		Mkr1 2.	401 503 0 GHz -4.848 dBm
10.0			^2
0.00 - 144/00/14/00/04/04/04/04/04/04/04/04/04/04/04/04	when a full which the full second and a second and a second s	nations and the second states of the second states	wwwwwwww
-20.0			
-30.0			4.
-50.0			
:70,0			
Start 2.40000 GHz #Res BW 100 kHz	#VBW 300 kHz		Stop 2.48350 GHz 000 ms (1001 pts)
MKR MODE TRC SCL X	Y FUNCTION F		ON VALUE
2 N f 2.480 32 3	7 0 GHz -3.832 dBm		
4 5 6			=
7 8 9			
			+
MSG		STATUS	
Keysight Spectrum Analyzer - Swept SA	opping No. NVNT 3-DH5 2	2441MHz Ant1	
X/ RL RF 50 Ω AC Center Freq 2.441750000 C		Avg Type: Log-Pwr	05:16:36 PM Jul 03, 2024
	PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Hold:>100/100	TYPE MWWWWW DET P NNNNN
10 dB/div Ref 20.00 dBm		MKF1 2.	401 837 0 GHz -1.557 dBm
10.0 1			<u>^2</u>
-10.0	ware and a second and a second s	mannananana	summer
-20.0			
-40.0			M
-50.0			₩.
-70,0			
Start 2.40000 GHz #Res BW 100 kHz	#VBW 300 kHz		Stop 2.48350 GHz 000 ms (1001 pts)
	Y FUNCTION F 7 0 GHz -1.557 dBm		ON VALUE
MKR MODE TRC SCL X			
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1 N 1 f 2.401 83 2 N 1 f 2.480 41	0 5 GHz -3.352 dBm		=



Center	Freq 2.44175000			ree Run : 30 dB	Avg Type: Lo Avg Hold:>10	g-Pwr 0/100	TRAC TYP DE
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-40,0							
-50.0							
-70,0				-			
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MKR MODE 1 N 2 N	1 f 2.40	01 753 5 GHz 80 410 5 GHz	-1.601 dBm -3.195 dBm	FUNCTION FUN	CTION WIDTH	FUNCT	ION VALUE
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5 6							
7							



11. DWELL TIME

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii), RSS-247 5.1
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=1MHz, VBW=3MHz, Span=0Hz, Detector=Peak
Limit:	0.4 Second

11.1 Test Setup

EUT	SPECTRUM
	ANALYZER

11.2 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 = 0Hz;

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).

11.3 DEVIATION FROM STANDARD No deviation.



11.4 Test Result

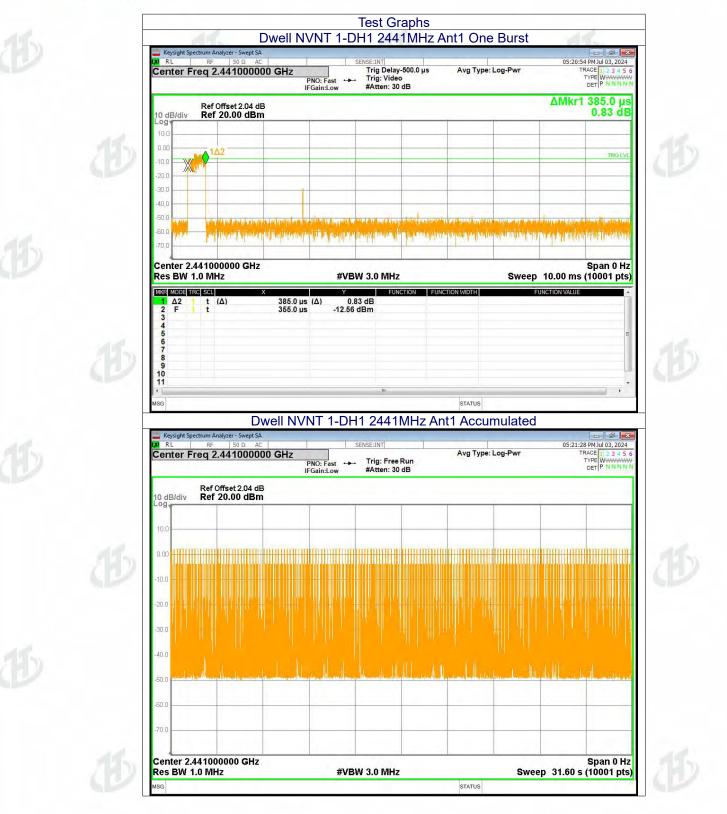
Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.385	122.43	318	31600	400	Pass
1-DH3	2441	1.636	260.124	159	31600	400	Pass
1-DH5	2441	2.884	325.892	113	31600	400	Pass
2-DH1	2441	0.385	122.815	319	31600	400	Pass
2-DH3	2441	1.637	266.831	163	31600	400	Pass
2-DH5	2441	2.885	337.545	117	31600	400	Pass
3-DH1	2441	0.385	122.43	318	31600	400	Pass
3-DH3	2441	1.636	258.488	158	31600	400	Pass
3-DH5	2441	2.887	311.796	108	31600	400	Pass

Remarks:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s (1 / 2 / 3)-DH1: Dwell time (ms) = Pulse Time (ms) * [1600 / (2 * 79)] * 31.6s(1 / 2 / 3)-DH3: Dwell time (ms) = Pulse Time (ms) * [1600 / (4 * 79)] * 31.6s(1 / 2 / 3)-DH5: Dwell time (ms) = Pulse Time (ms) * [1600 / (6 * 79)] * 31.6s









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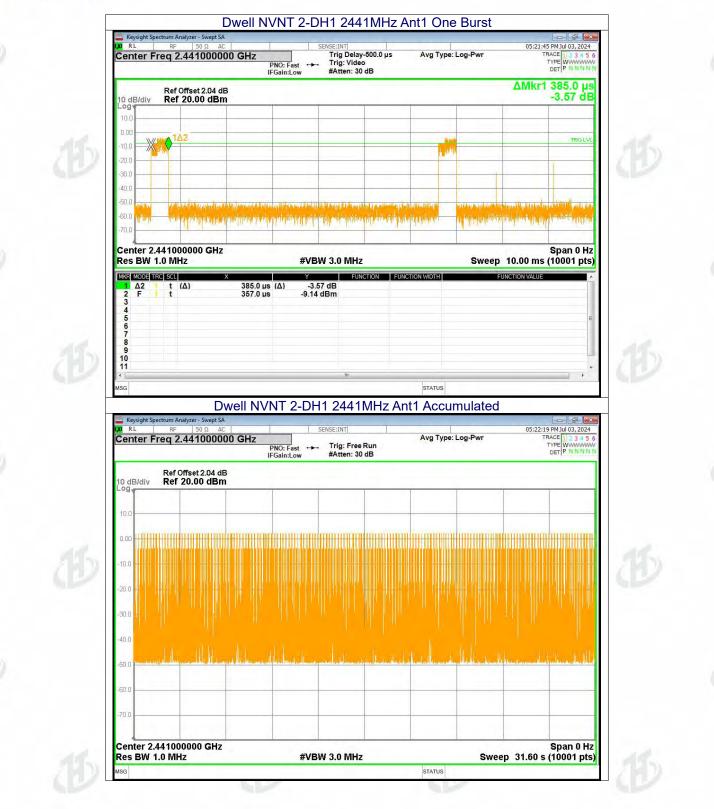


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	Center Freq 2.441000000 G	HZ Trig Delay-500 PNO: Fast IFGain:Low #Atten: 30 dB		DET PNNN	
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	-60.0 <mark>-61.1</mark>			a da fina a sa ta da ta da sa na sa ta da	
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					2
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		SENSE:INT HZ PNO: Fast ↔ Trig: Free Rui	Avg Type: Log-P	04:41:19 PM Jul 03, 2024	
	02 RL RF 50 Ω AC Center Freq 2.441000000 G Ref Offset 2.04 dB	SENSE:INT	Avg Type: Log-P	04:41:19 PM Jul 03, 2024	
	027 RL RF 50 Ω AC Center Freq 2.441000000 G	SENSE:INT HZ PNO: Fast ↔ Trig: Free Rui	Avg Type: Log-P	04:41:19 PM Jul 03, 2024	
	RL RF 50 Ω AC Center Freq 2.441000000 G Ref Offset 2.04 dB 10 dB/div Ref 20.00 dBm	SENSE:INT HZ PNO: Fast ↔ Trig: Free Rui	Avg Type: Log-P	04:41:19 PM Jul 03, 2024	
	RL RF 50 Ω AC Center Freq 2.441000000 G Ref Offset 2.04 dB Ref Offset 2.04 dB Ref 20.00 dBm	SENSE:INT HZ PNO: Fast ↔ Trig: Free Rui	Avg Type: Log-P	04:41:19 PM Jul 03, 2024	
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16	RL RF 50 Ω AC Center Freq 2.441000000 Gi 10 dB/div Ref Offset 2.04 dB Log Ref 20.00 dBm	SENSE:INT HZ PNO: Fast ↔ Trig: Free Rui	Avg Type: Log-P	04:41:19 PM Jul 03, 2024	
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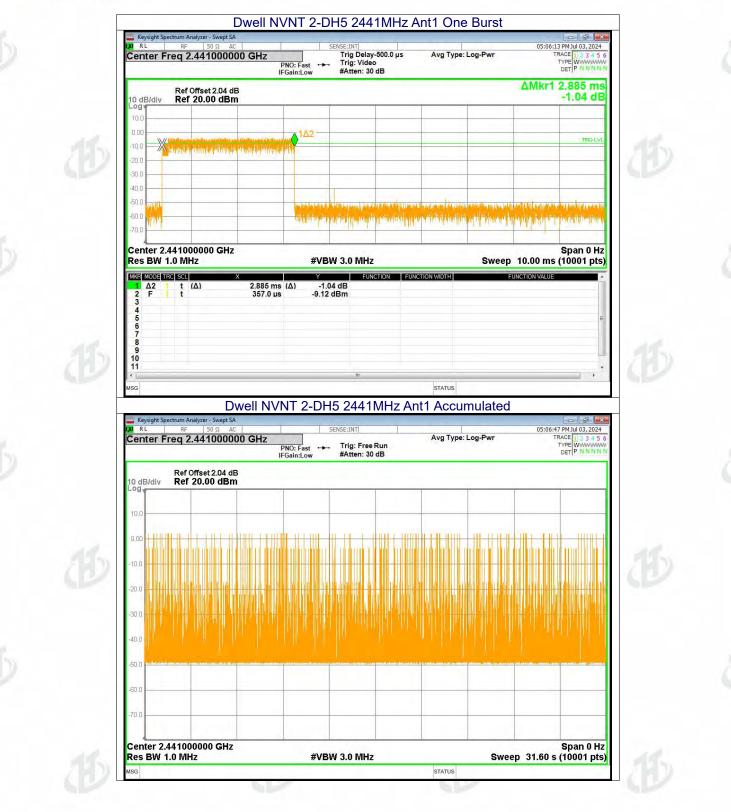


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Center Freq 2.441000000	GHz SENSEINT Trig Delay-500.0 µs Trig Video #Atten: 30 dB	Avg Type: Log-Pwr	05:24:12 PMJul 03, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW DET P N N N N
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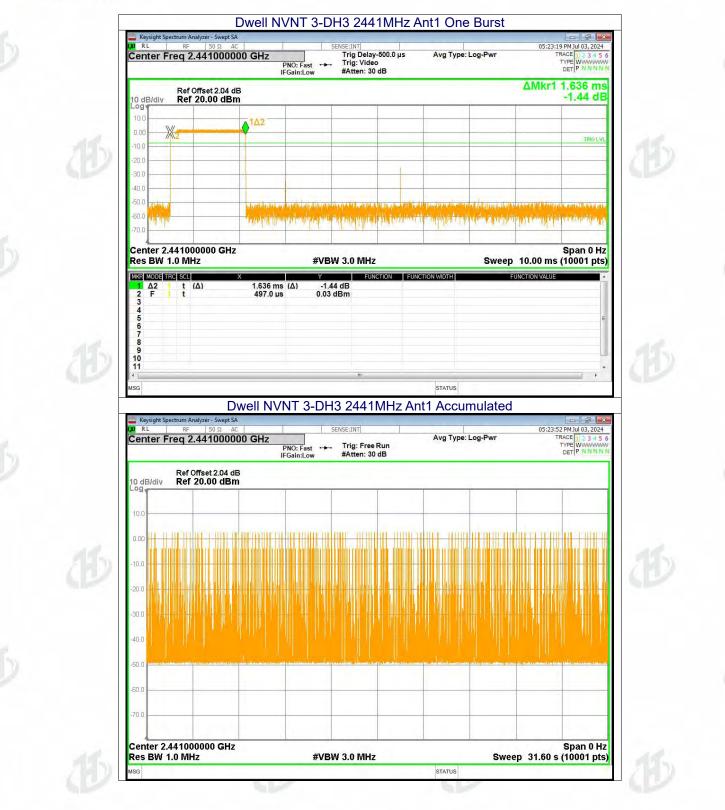
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Center Freq 2.441000000	GHz SENSE2INT Trig Delay-500.0 µs PNO: Fast → Trig: Video IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr	05:25:01 PM Jul 03, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N
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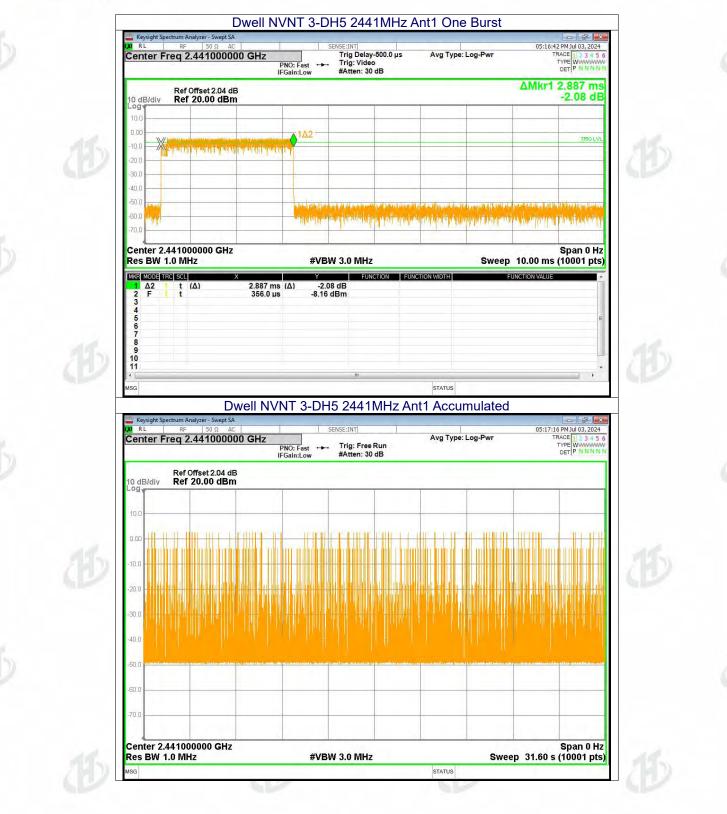


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12. Antenna Requirement

FCC Part15 C Section 15.203 /247(b)(4), RSS-Gen 6.8

Standard requirement: 15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power (EIRP) limits specified in the applicable standard (RSS) for the licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level.9 When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

EUT Antenna:

The antenna is External Antenna, the best case gain of the antennas is 2.89dBi, reference to the appendix II for details



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13. Test Setup Photo

Reference to the appendix I for details.

14. EUT Constructional Details

Reference to the appendix II for details.

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