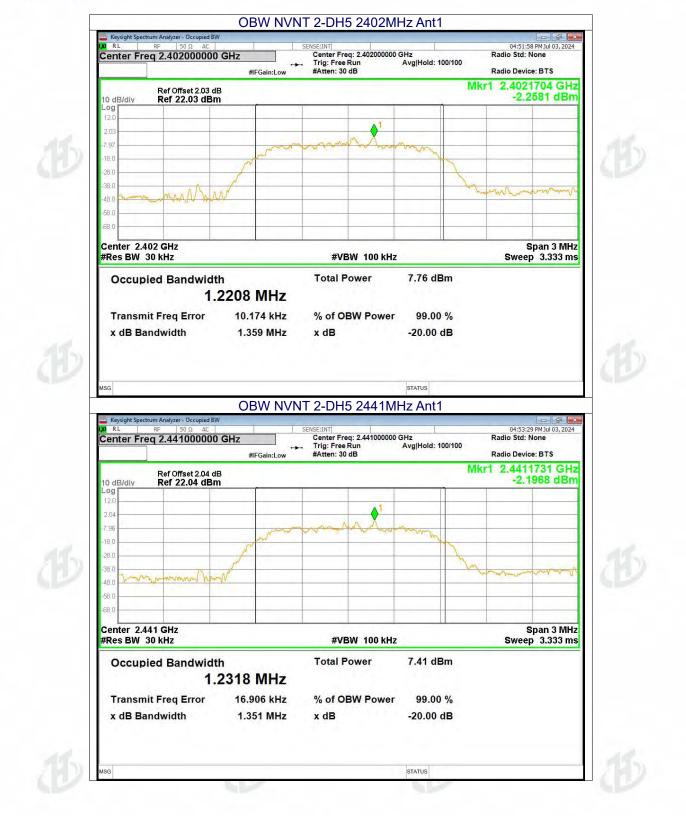
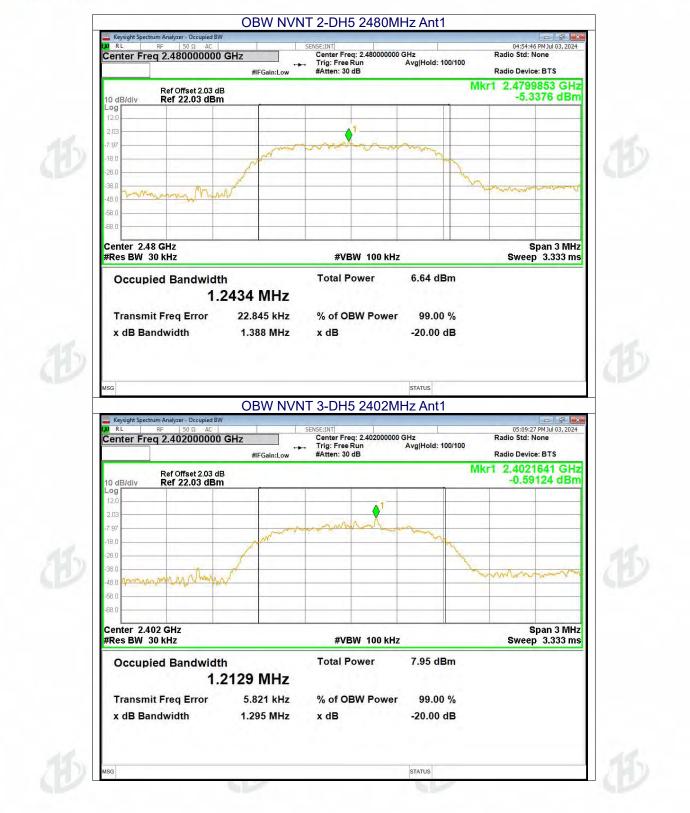


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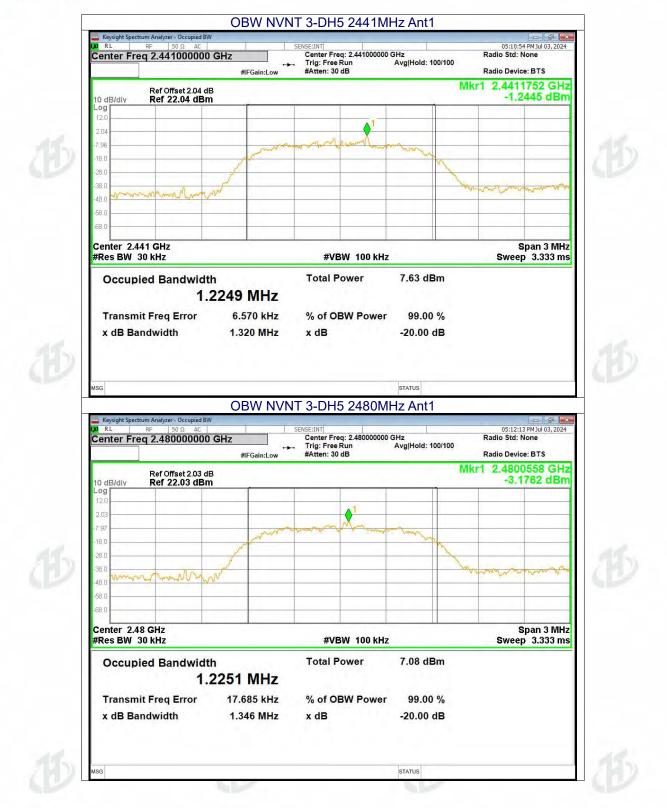


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#### 8. Maximum Peak Output Power

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.

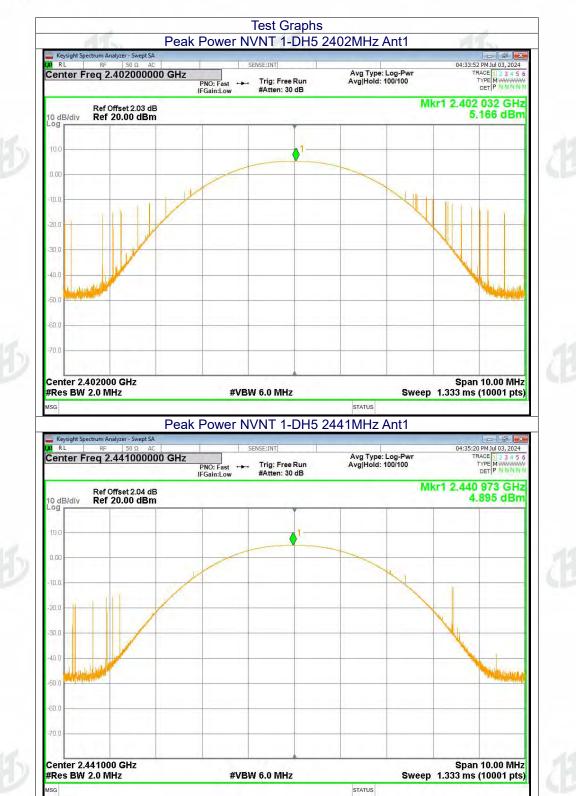
#### 8.4 DEVIATION FROM STANDARD

#### 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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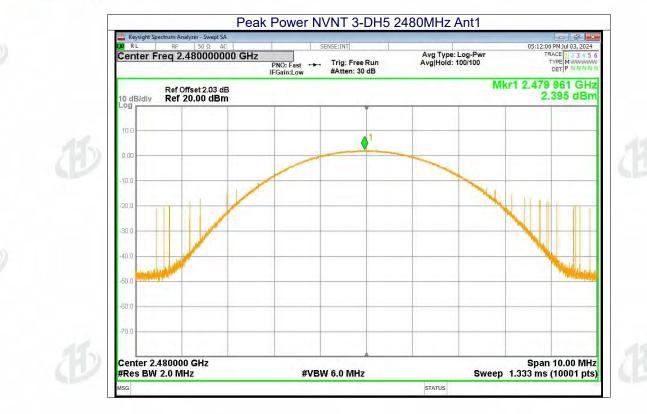


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1			Storage chip 2		
D	Mode	Test channel	Peak Output Power (dBm)	Peak Output Power Limit (dBm)	Result
		Lowest	5.05		
	GFSK	Middle	4.81	21.00	Pass
		Highest	4.49		
	(P)	Lowest	2.09		CP/
	π/4DQPSK	Middle	2.09	21.00	Pass
		Highest	2.07		
d		Lowest	2.94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

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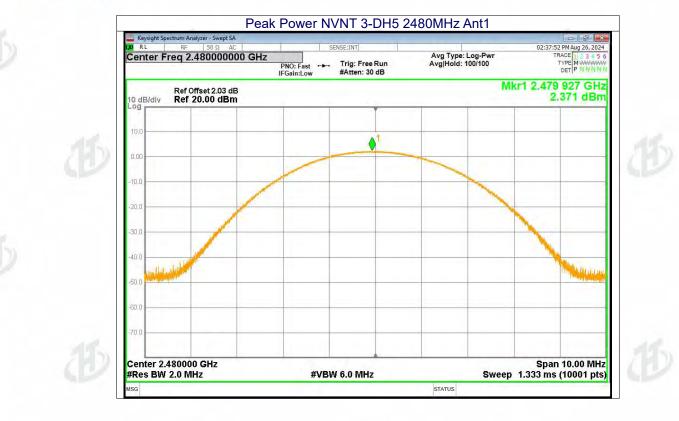


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## 9. HOPPING CHANNEL SEPARATION

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.

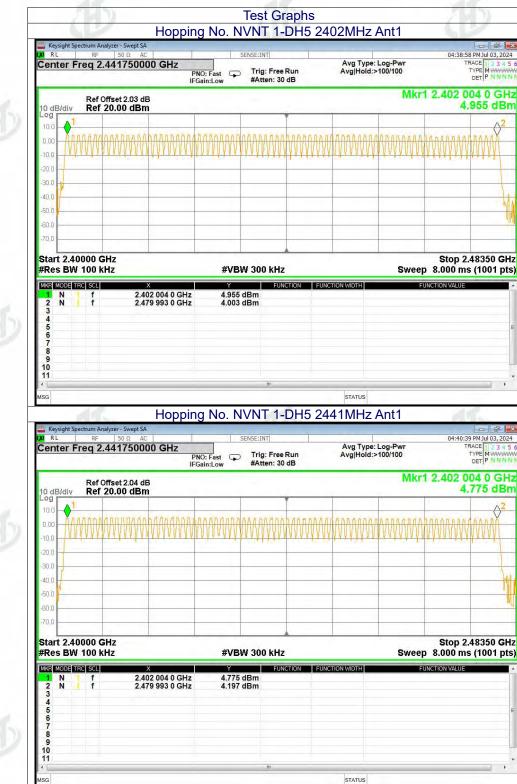
4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz. Sweep=auto;

**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:&gt;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 <b>1 2.401 6</b> -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 <b>1 2.401 6</b> -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			
1 N 1 f 2.401 83 2 N 1 f 2.480 41 3	0 5 GHz -3.352 dBm		
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
10 dB/div	Ref Offset 2.03 de Ref 20.00 dBm				_	Mkr1 2	.401 753 -1.60
10.0	1 Alaharanan	A & A & A & A & A & A & A & A & A & A &	And Lawrence		a star day a la la la		
-10.0	Augusta Augusta	KANadahana.	and the second second	La Jakan Kan	INNA A SA WASA	and A date of A.A.	A R. G. A. M. A. A. A.
-20.0							
-40,0							
-50.0							
-70,0				-			
	40000 GHz W 100 kHz		#VBW 300 k	Hz		Sweep 8	Stop 2.48 .000 ms (*
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
3 4		0 410 0 GHZ	-0.130 ubiii				
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

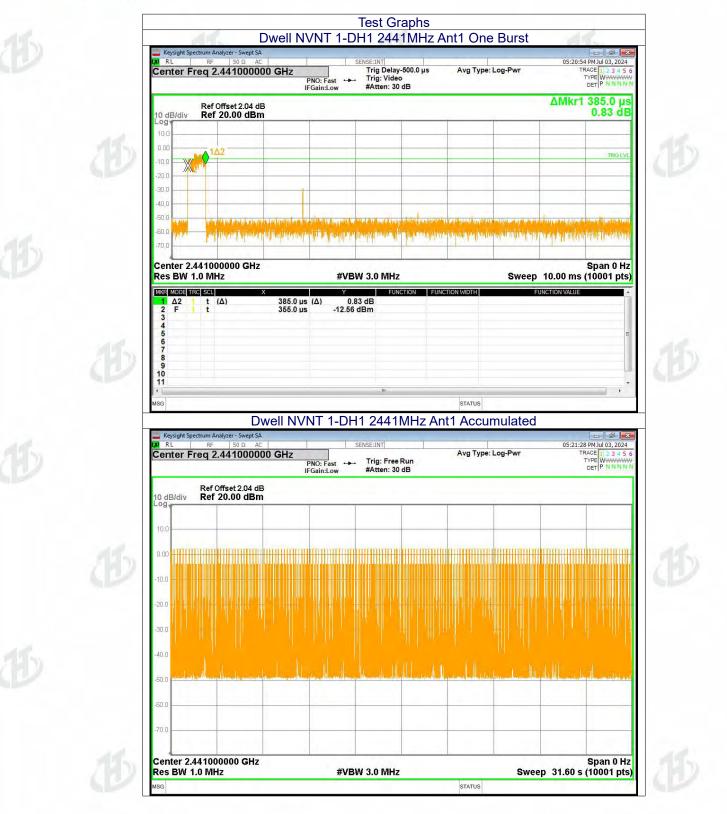
Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.385	122.43	318	31600	400	Pass
1-DH3	2441	1.636	260.124	159	31600	400	Pass
1-DH5	2441	2.884	325.892	113	31600	400	Pass
2-DH1	2441	0.385	122.815	319	31600	400	Pass
2-DH3	2441	1.637	266.831	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

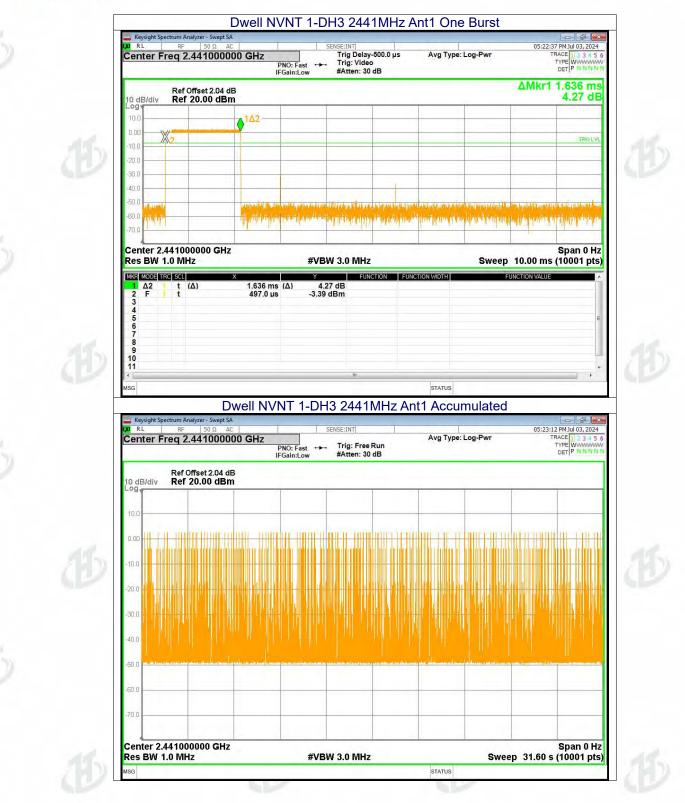








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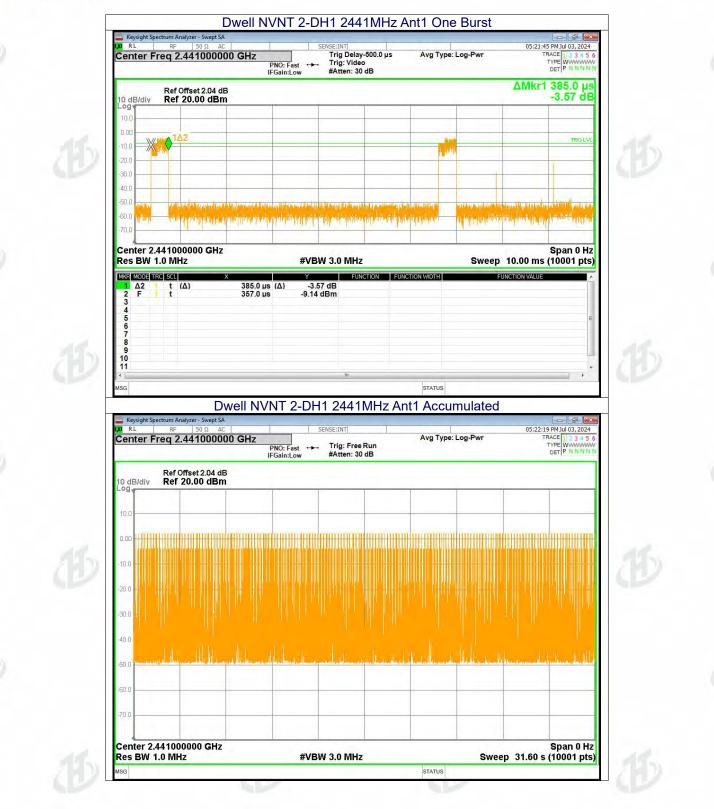


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	Center Freq 2.441000000 G	HZ Trig Delay-500 PNO: Fast IFGain:Low #Atten: 30 dB		DET PNNN	
	Ref Offset 2.04 dB			ΔMkr1 2.884 ms -3.39 dB	
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	-60.0 <mark>-61.1</mark>			a da fina a sa ta da ta da sa na sa ta da	
	Center 2.441000000 GHz			Span 0 Hz	
	Res BW 1.0 MHz	#VBW 3.0 MHz		weep 10.00 ms (10001 pts	
	MKR MODE         TRC SCL         X           1         Δ2         t         (Δ)         2.3           2         F         t         4	Υ         FUNCTIO           384 ms         (Δ)         -3.39 dB           97.0 μs         -4.14 dBm	N FUNCTION WIDTH	FUNCTION VALUE	
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dillo.	8 9				44.
10	10 11				
	MSG	10	STATUS		
		NVNT 1-DH5 2441M	Hz Ant1 Accumula	ated	
					2
	Keysight Spectrum Analyzer - Swept SA X RL RF 50 Ω AC	SENSE:INT		04:41:19 PM Jul 03, 2024	
		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	
11-	RL         RF         50 Ω         AC           Center Freq 2.441000000 Gi           Ref Offset 2.04 dB           10 dB/div         Ref 20.00 dBm           10.0         0.00	SENSE:INT HZ PNO: Fast ↔ Trig: Free Rui	Avg Type: Log-P	04:41:19 PM Jul 03, 2024	
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	
B	RL         RF         50 Ω         AC           Center Freq 2.441000000 Gi           Ref Offset 2.04 dB           10 dB/div         Ref 20.00 dBm           10.0         0.00	SENSE:INT HZ PNO: Fast ↔ Trig: Free Rui	Avg Type: Log-P	04:41:19 PM Jul 03, 2024	
Б	RL         RF         50 Ω         AC           Center Freq 2.441000000 Gi           Ref Offset 2.04 dB           10 dB/div         Ref 20.00 dBm           10.0	SENSE:INT HZ PNO: Fast ↔ Trig: Free Rui	Avg Type: Log-P	04:41:19 PM Jul 03, 2024	
B	RL         RF         50.0. AC           Center Freq 2.441000000 G           Center Freq 2.441000000 G           Ref Offset 2.04 dB           Ref 20.00 dBm           0.00           0.00           -10.0           -20.0	SENSE:INT HZ PNO: Fast ↔ Trig: Free Rui	Avg Type: Log-P	04:41:19 PM Jul 03, 2024	
Ъ	RL         RF         50 Ω         AC           Center Freq 2.441000000 Gi           Ref Offset 2.04 dB           10 dB/div         Ref 20.00 dBm           10.0	SENSE:INT HZ PNO: Fast ↔ Trig: Free Rui	Avg Type: Log-P	04:41:19 PM Jul 03, 2024	
æ	RL         RF         50.0. AC           Center Freq 2.441000000 G           Center Freq 2.441000000 G           Ref Offset 2.04 dB           Ref 20.00 dBm           0.00           0.00           -10.0           -20.0	SENSE:INT HZ PNO: Fast ↔ Trig: Free Rui	Avg Type: Log-P	04:41:19 PM Jul 03, 2024	
æ	RL         RF         50.0. AC           Center Freq 2.441000000 Gi           10.0         Ref Offset 2.04 dB           10.0         Ref 20.00 dBm           -0.0	SENSE:INT HZ PNO: Fast ↔ Trig: Free Rui	Avg Type: Log-P	04:41:19 PM Jul 03, 2024	
æ	RL         RF         50.0. AC           Center Freq 2.441000000 Gi           Ref Offset 2.04 dB           10.0         Ref 20.00 dBm           10.0         Image: Center Freq 2.441000000 Gi           10.0         Image: Center Freq 2.441000000 Gi           10.0         Image: Center Freq 2.441000000 Gi           10.0         Image: Center Freq 2.44100000 Gi           10.0         Image: Center Freq 2.44100000 Gi           10.0         Image: Center Freq 2.44100000 Gi           10.0         Image: Center Freq 2.441000000 Gi           -10.0         Image: Center Freq 2.441000000 Gi           -20.0         Image: Center Freq 2.441000000 Gi           -30.0         Image: Center Freq 2.441000000 Gi           -40.0         Image: Center Freq 2.4410000000 Gi           -60.0         Image: Center Freq 2.4410000000 Gi	SENSE:INT HZ PNO: Fast ↔ Trig: Free Rui	Avg Type: Log-P	04:41:19 PM Jul 03, 2024	
B	RL         RF         50.0. AC           Center Freq 2.441000000 Gi           Ref Offset 2.04 dB           10 dB/div         Ref 20.00 dBm           .000	SENSE:INT HZ PNO: Fast ↔ Trig: Free Rui	Avg Type: Log-P	04:41:19 PM Jul 03, 2024	
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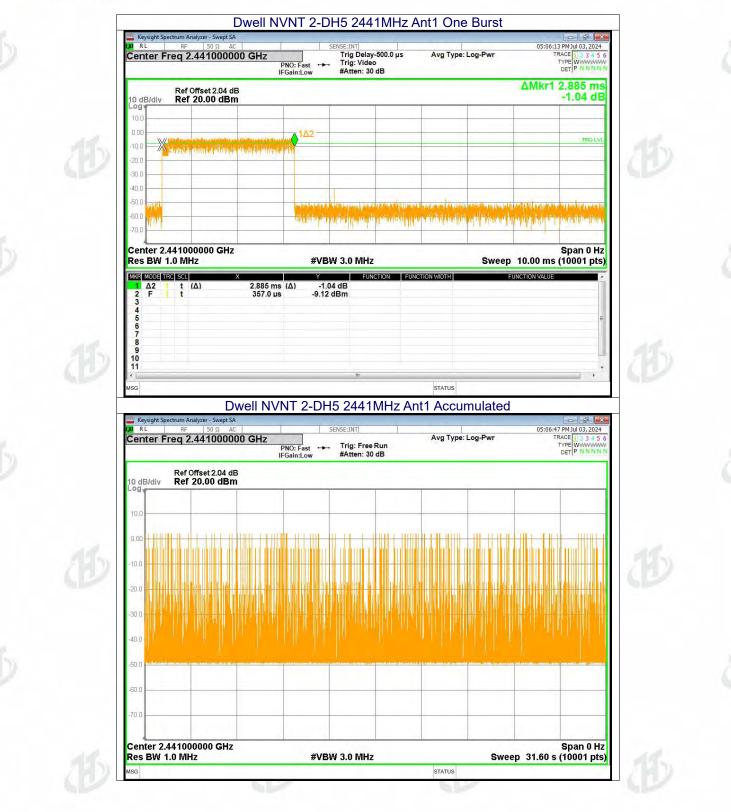


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Center Freq 2.441000000	GHz SENSEINT Trig Delay-500.0 µs Trig Video #Atten: 30 dB	Avg Type: Log-Pwr	05:24:12 PMJul 03, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW DET P N N N N
Ref Offset 2.04 dB 10 dB/div Ref 20.00 dBm			ΔMkr1 1.637 ms -0.67 dB
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-10.0	Δ2		TRIG LVL
-20.0			
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	a honte generalitati a cariare consignitati de la consideração de la constructiva de la constructiva de la cons		
Center 2.441000000 GHz Res BW 1.0 MHz	#VBW 3.0 MHz	Sween 1	Span 0 Hz 0.00 ms (10001 pts)
MKR MODE TRC SCL X	Y FUNCTION FI		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.637 ms (Δ) -0.67 dB 355.0 μs -11.08 dBm		
4 6 6 7			E
7 8 9 10			
	m		*
MSG		status	
Keysight Spectrum Analyzer - Swept SA	ell NVNT 2-DH3 2441MHz A		05-24-45 PM Jul 03, 2024
Dw	GHz PNO: Fast ++ Trig: Free Run		05:24:45 PMJul 03, 2024 TRACE 3 3 4 5 6 TYPE WWWWWW DET P NNNN
Image: Keysight Spectrum Analyzer - Swept SA         Image: Weysight Spectrum Analyzer - Swe	GHz	ant1 Accumulated	05:24:45 PM Jul 03, 2024
Dw Keysight Spectrum Analyzer - Swept SA W RL RF 50 Ω AC Center Freq 2.441000000	GHz PNO: Fast ++ Trig: Free Run	ant1 Accumulated	05:24:45 PM Jul 03, 2024
Dw. Keysight Spectrum Analyzer - Swept SA W RL RF 502 AC Center Freq 2.441000000 Ref Offset 2.04 dB 10 dB/div Ref 20.00 dBm	GHz PNO: Fast ++ Trig: Free Run	ant1 Accumulated	05:24:45 PM Jul 03, 2024
Dw. ▲ Keysight Spectrum Analyzer - Swept SA Ø RL RF 50 Ω AC Center Freq 2.441000000 Ref Offset 2.04 dB 10 dB/div Ref 20.00 dBm	GHz PNO: Fast ++ Trig: Free Run	ant1 Accumulated	05:24:45 PM Jul 03, 2024
Dw. Keysight Spectrum Analyzer - Swept SA W RL RF 50 Q AC Center Freq 2.441000000 Ref Offset 2.04 dB 10 dB/div Ref 20.00 dBm 10.0	GHz PNO: Fast ++ Trig: Free Run	ant1 Accumulated	05:24:45 PM Jul 03, 2024
Keysight Spectrum Analyzer - Swept SA         Keysight Spectrum Analyzer - Swept SA         Keysight Spectrum Analyzer - Swept SA         Center Freq 2.441000000         Ref Offset 2.04 dB         Ref 20.00 dB/div         Ref 20.00 dBm         0.00	GHz PNO: Fast ++ Trig: Free Run	ant1 Accumulated	05:24:45 PM Jul 03, 2024
Www.mail.         Box           Keysight Spectrum Analyzer - Swept SA         M           M         RL         RF         50.2         AC           Center Freq 2.441000000         Ref Offset 2.04 dB         M         Ref 20.00 dBm           10 dB/div         Ref 20.00 dBm         N         N         N           10.0         -10.0         -10.0         -10.0         -10.0         -10.0	GHz PNO: Fast ++ Trig: Free Run	ant1 Accumulated	05:24:45 PM Jul 03, 2024
Experimental Spectrum Analyzer - Swept SA           Image: Spectrum Analyzer - Swept SA           I	GHz PNO: Fast ++ Trig: Free Run	ant1 Accumulated	05:24:45 PM Jul 03, 2024
Keysight Spectrum Analyzer - Swept SA           Result         Ref         Sog         AC           Center Freq 2.441000000         Ref Offset 2.04 dB         Ref 20.00 dBm           10.0         Ref 20.00 dBm         Ref 20.00 dBm           -0.0         -0.0         -0.0         -0.0           -30.0         -0.0         -0.0         -0.0         -0.0	GHz PNO: Fast ++ Trig: Free Run	ant1 Accumulated	05:24:45 PM Jul 03, 2024
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Keysight Spectrum Analyzer - Swept SA         Kill RL       RF       50.0       AC         Center Freq 2.441000000         10 dB/div       Ref 20.00 dBm         10.0	GHz PNO: Fast ++ Trig: Free Run	ant1 Accumulated	05:24:45 PM Jul 03, 2024



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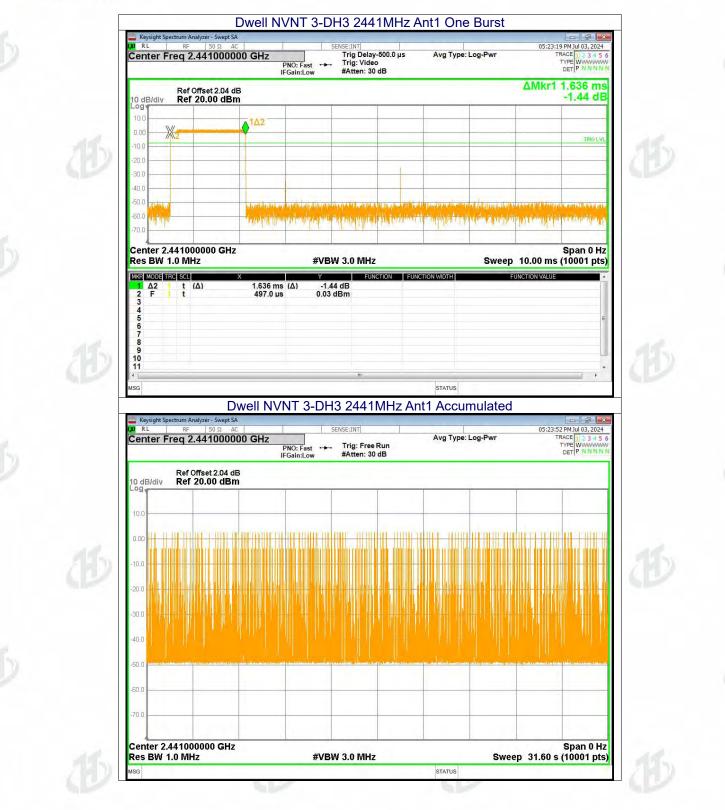
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Center Freq 2.441000000	GHz SENSE2INT Trig Delay-500.0 µs PNO: Fast → Trig: Video IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr	05:25:01 PM Jul 03, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N
Ref Offset 2.04 dB		1	Mkr1 385.0 µs -6.58 dB
10 dB/div Ref 20.00 dBm			-0.00 0D
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-10.0			1100 646
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-50.0 (the bar the day of the second se	ia a da la la capita da tanà mandritra da bana mita. Dela mandritra da tanà mandritra dia mandritra dia mandritra dia mandritra dia mandritra dia mandritra dia mand		And Albert and a second second
-70,0			
Center 2.441000000 GHz Res BW 1.0 MHz	#VBW 3.0 MHz	Sweep 10.	Span 0 Hz 00 ms (10001 pts)
$\begin{array}{c c} \text{MKR} & \text{MODE TRC SCL} & X \\ \hline 1 & \Delta 2 & 1 & t & (\Delta) \end{array}$	Y FUNCTION FUNCT 385.0 μs (Δ) -6.58 dB	TON WIDTH FUNCTION	DN VALUE
2 F I t 3	497.0 µs 0.40 dBm		
4 5 6 7			E
7 8 9			
10			+
·	in the		
MSG	-19	STATUS	
Dwe			
Keysight Spectrum Analyzer - Swept SA	SENSE:INT	1 Accumulated	05:25:36 PM Jul 03, 2024
Dwe	SENSE:INT		
Keysight Spectrum Analyzer - Swept SA         W       RL       RF       50 Ω       AC         Center Freq 2.441000000         Ref Offset 2.04 dB	GHz PNO: Fast → Trig: Free Run	1 Accumulated	05:25:36 PM Jul 03, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW
Dwe	GHz PNO: Fast → Trig: Free Run	1 Accumulated	05:25:36 PM Jul 03, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW
Butter         Butter         Sweet SA           Ø         RL         RF         500 AC         Center Freq 2.441000000           Center Freq 2.441000000         Ref Offset 2.04 dB         Ref 20.00 dBm         Ref 20.00 dBm	GHz PNO: Fast → Trig: Free Run	1 Accumulated	05:25:36 PM Jul 03, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW
Dwee	GHz PNO: Fast → Trig: Free Run	1 Accumulated	05:25:36 PM Jul 03, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW
Dwee	GHz PNO: Fast → Trig: Free Run	1 Accumulated	05:25:36 PM Jul 03, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW
Baseline	GHz PNO: Fast → Trig: Free Run	1 Accumulated	05:25:36 PM Jul 03, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW
Dwee	GHz PNO: Fast → Trig: Free Run	1 Accumulated	05:25:36 PM Jul 03, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW
Bit         Bit         Seysight Spectrum Analyzer - Swept SA           Will RL         RF         30.2 AC           Center Freq 2.441000000         Center Freq 2.441000000           10 dB/div         Ref Offset 2.04 dB           10 dB/div         Ref 20.00 dBm           10.0	GHz PNO: Fast → Trig: Free Run	1 Accumulated	05:25:36 PM Jul 03, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW
Bit         Ref         S00 acc           Center Freq 2.441000000         Ref 0ffset 2.04 dB         0           10 dB/div         Ref 20.00 dBm         0           10.0         -0.0         -0.0	GHz PNO: Fast → Trig: Free Run	1 Accumulated	05:25:36 PM Jul 03, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW
Bit         Ref         30.0         AC           Center Freq 2.441000000         Ref         20.0         AC           Conter Freq 2.441000000         Ref 20.00 dBm         AC         AC           10 dB/div         Ref 20.00 dBm         Ref 20.00 dBm         AC         AC           10 dB/div         Ref 20.00 dBm         AC         AC         AC         AC           10 dB/div         Ref 20.00 dBm         AC         AC<	GHz PNO: Fast → Trig: Free Run	1 Accumulated	05:25:36 PM Jul 03, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW
Revisit Spectrum Analyzer - Swept SA           R L         RF         50 2         AC           Center Freq 2.441000000         Ref Offset 2.04 dB         D         D         D           10 dB/div         Ref Offset 2.04 dB         D <t< td=""><td>GHz PNO: Fast → Trig: Free Run</td><td>1 Accumulated</td><td>05:25:36 PM Jul 03, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW</td></t<>	GHz PNO: Fast → Trig: Free Run	1 Accumulated	05:25:36 PM Jul 03, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW
Excisint Spectrum Analyzer - Swept SA           W RL         RF         30.2 AC           Center Freq 2.441000000         30.0 AC           10 dB/div         Ref Offset 2.04 dB           10 dB/div         Ref 20.00 dBm           -0.00	GHz PNO: Fast → Trig: Free Run	1 Accumulated	05:25:36 PM Jul 03, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW
Revisit Spectrum Analyzer - Swept SA	GHz PNO: Fast → Trig: Free Run	1 Accumulated	05:25:36 PM Jul 03, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW
Keysight Spectrum Analyzer - Swept SA           M         RL         RP         SSD2         AC           Center Freq 2.441000000         Ref Offset 2.04 dB         Ref Offset 2.04 dB         Ref Offset 2.04 dB           10.0         Ref Offset 2.04 dB         Ref Offset 2.04 dB         Ref Offset 2.04 dB         Ref Offset 2.04 dB           10.0         Ref Offset 2.04 dB         Ref Offset 2.04 dB         Ref Offset 2.04 dB         Ref Offset 2.04 dB           10.0         Ref Offset 2.04 dB         Ref Offset 2.04 dB         Ref Offset 2.04 dB         Ref Offset 2.04 dB           10.0         Ref Offset 2.04 dB         Ref Offset 2.04 dB         Ref Offset 2.04 dB         Ref Offset 2.04 dB           10.0         Ref Offset 2.04 dB         Ref Offset 2.04 dB         Ref Offset 2.04 dB         Ref Offset 2.04 dB           10.0         Ref Offset 2.04 dB         Ref Offset 2.04 dB         Ref Offset 2.04 dB         Ref Offset 2.04 dB           -0.0         Ref Offset 2.04 dB         Ref Offset 2.04 dB         Ref Offset 2.04 dB         Ref Offset 2.04 dB           -0.0         Ref Offset 2.04 dB         Ref Offset 2.04 dB         Ref Offset 2.04 dB         Ref Offset 2.04 dB           -0.0         Ref Offset 2.04 dB         Ref Offset 2.04 dB         Ref Offset 2.04 dB         Ref Offset 2.04 dB	GHz PNO: Fast → Trig: Free Run	Avg Type: Log-Pwr	05:25:36 PM Jul 03, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW

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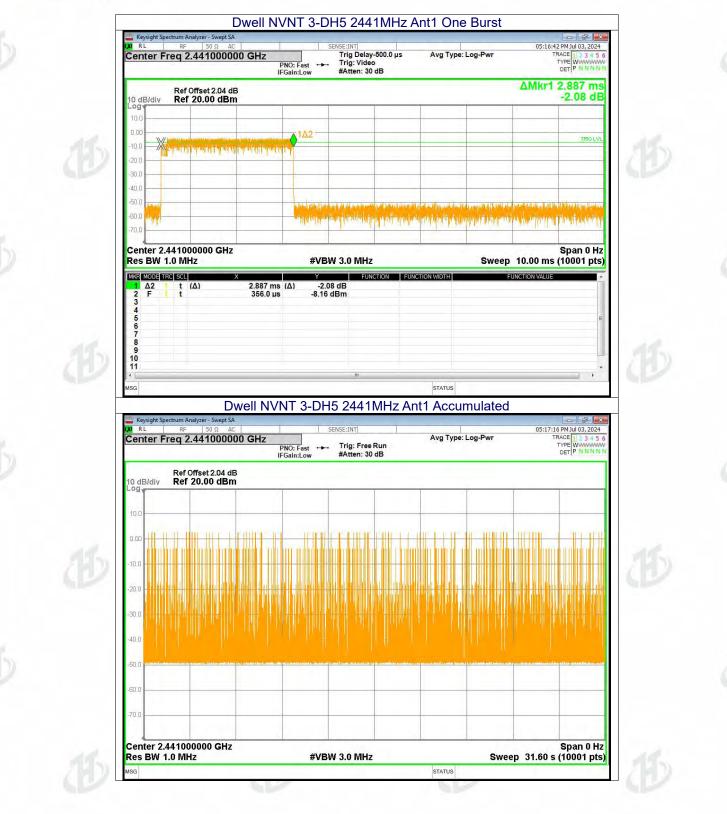


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#### 12. Antenna Requirement

#### 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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Б						æ
B						