

### 11. Maximum Peak Output Power

### 11.1 Block Diagram Of Test Setup



#### 11.2 Limit

FCC Part15 (15.247) , Subpart 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.

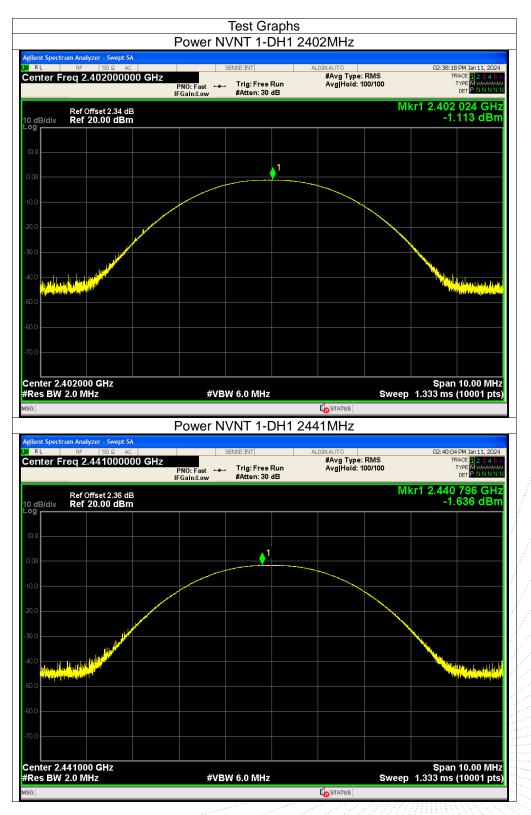
2. Set the spectrum analyzer: RBW = 2MHz. VBW = 6MHz. Sweep = auto; Detector Function = Peak.

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

### 11.4 Test Result

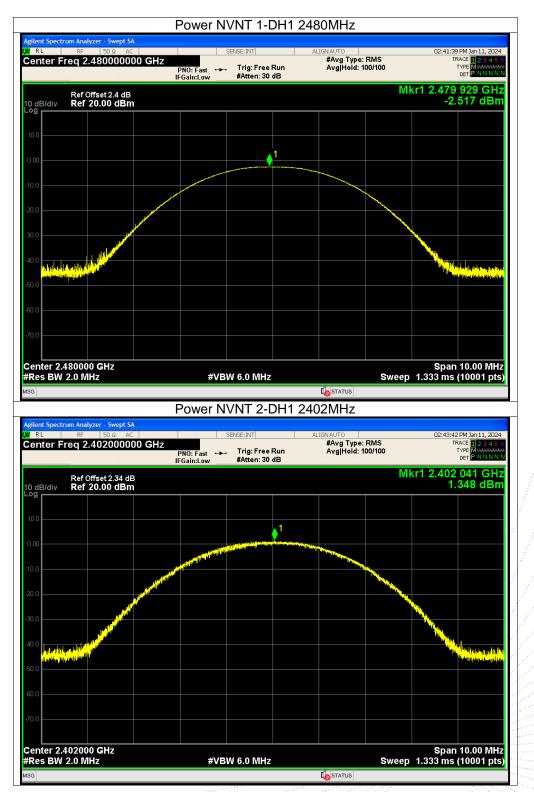
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	`~ <b>_1.1</b> 4 `	21	Pass
NVNT	1-DH1	2441	-1.64	21	Pass
NVNT	1-DH1	2480	-2.52	21	Pass
NVNT	2-DH1	2402	1.35	21	Pass
NVNT	2-DH1	2441	0.61	21	Pass
NVNT	2-DH1	2480	-0.14	21	Pass
NVNT	3-DH1	2402	1.84	21	Pass
NVNT	3-DH1	2441	1.50	21	Pass
NVNT	3-DH1	2480	0.68	21	Pass









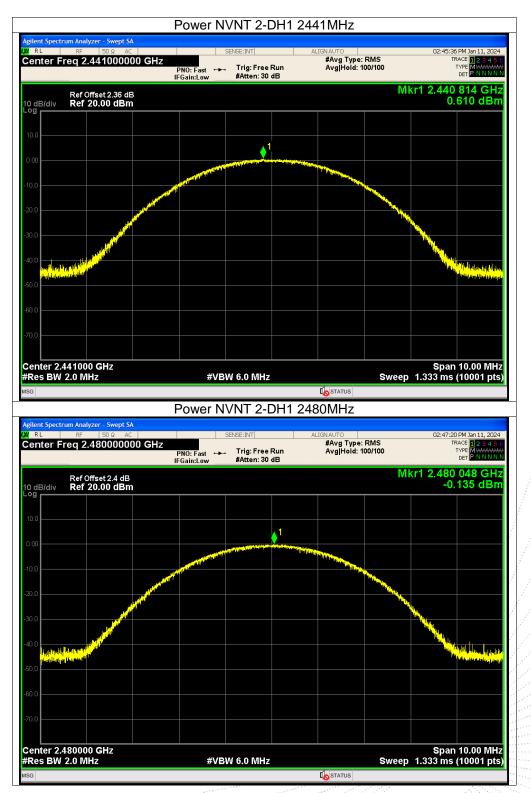




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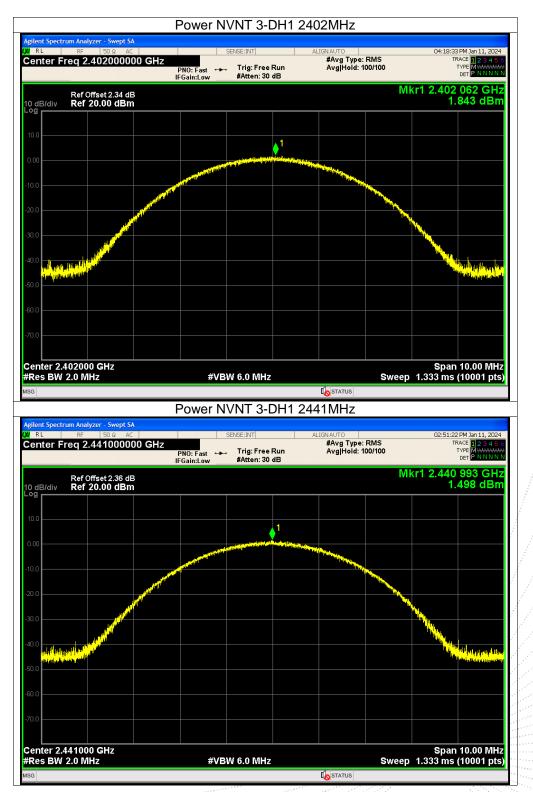
No.: BCTC/RF-EMC-005





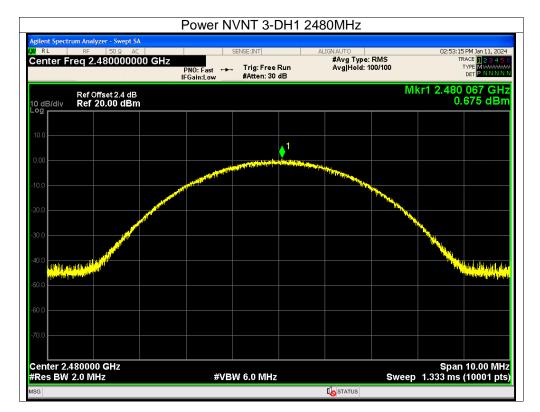


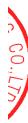












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### 12. Hopping Channel Separation

### 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.

odulation	Test Channel	Separation (MHz)	Limit(MHz)	Result
GFSK	Low Market	0.994	0.577	PASS
GFSK	Middle	1.002	0.571	PASS
GFSK	High Mark	0.996	0.542	PASS
π/4 DQPSK	Low	0.996	0.832	PASS
π/4 DQPSK	Middle	1.000	0.841	PASS
π/4 DQPSK	High	0.998	0.831	PASS
8DPSK	Low	1.000	0.812	PASS
8DPSK	Middle	1.002	0.804	PASS
8DPSK	High	1.002	0.811	PASS

#### 12.4 Test Result



		FS NVNT	1-DH1 :	2402MHz			
lent Spectrum Analyzer - S RL RF 50	Ω AC	SENSE:IN	Т	ALIGN AUTO			PM Jan 11, 2024
enter Freq 2.402			: Free Run en: 30 dB	#Avg Typ Avg Hold	e: RMS :>100/100	TRA T` [	ACE 12345 YPE MWWWWW DET PNNNN
Ref Offset: dB/div Ref 20.00	2.34 dB 0 <b>dBm</b>				Mk	1 r1 2.401 2.6-	994 GH: 85 dBn
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enter 2.402500 GH							000 844
Res BW 30 kHz	IZ	#VBW 100	kHz		Sweep	span / 2.133 ms	2.000 MH (1001 pts
R MODE TRC SCL	×	Y	FUNCTION	FUNCTION WIDTH	FUT	NCTION VALUE	
N 1 f 2 N 1 f	2.401 994 GHz 2.402 988 GHz	-2.685 dBm -2.325 dBm					
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â	CI	FS NVNT	1-DH1 :				
lent Spectrum Analyzer - S	Swept SA	FS NVNT	1-DH1 :				
l <mark>ent Spectrum Analyzer - S</mark> RL RF 50	5wept SA ΙΩ ΑC 500000 GHz PNO:	SENSE:INT	T : Free Run	2441MHz Alignauto #Avg Typ	∍e: RMS ⊳100/100	TRA	PM Jan 11, 2024
lent Spectrum Analyzer - S RL RF S0 enter Freq 2.441 Ref Offset:	Swept SA R AC 500000 GHz PNO: IFGair 2.36 dB	SENSE:INT	Т	2441MHz Alignauto #Avg Typ	l:>100/100	۳۳ ۲۲ 1 <b>1 2.440</b>	PM Jan 11, 2024 CE 1 2 3 4 5 YPE MWWWW DET P NNNN 986 GH
lent Spectrum Analyzer - S RL RS So enter Freq 2.441 Ref Offset: dB/div Ref 20.00	Swept SA R AC 500000 GHz PNO: IFGair 2.36 dB	SENSE:INT	T : Free Run	2441MHz Alignauto #Avg Typ	l:>100/100	۳۳ ۲۲ 1 <b>1 2.440</b>	PM Jan 11, 2024 CE 1 2 3 4 5 YPE MWWWW DET P N N N
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Ient Spectrum Analyzer - 50 RL RF - 50 enter Freq 2.441 Ref Offset: dB/div Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0	Swept SA DR AC PRO: IFGai 2.36 dB 0 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	SENSE:IN Wide Trig: #Atte	T Free Run en: 30 dB	2441MHz Alignauto #Avg Typ	:>100/100 Mk	r1 2.440 9 -2.8	2M Jan 11, 2023 Kei II 2 3 4 5 Kei II 2 3 4
Ient Spectrum Analyzer - 50           RL         RF         50           enter Freq 2.4415         Ref Offset:         Ref Offset:           dB/div         Ref Offset:         Ref 20.00           g         Ref 20.00         Ref 20.00           g	Swept SA IQ AC PROF 500000 GHz PROF IF Gail 2.36 dB 0 dBm	SENSE:IN Wilde Trig: n:Low #Atte	Free Run en: 30 dB	2441MHz	:>100/100 Mk	r1 2.440 9 -2.8	2M Jan 11, 2023 Kei II 2 3 4 5 Kei II 2 3 4
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Ient Spectrum Analyzer         S           RL         RF         50           enter Freq 2.4413         50         50           dB/div         Ref Offset:         50           dB/div         Ref 20.00         50           00         0         0           00         0         0           00         0         0           00         0         0           00         0         0           00         0         0           00         0         0           00         0         0           00         0         0           00         0         0           00         0         0           00         0         0           00         0         0           00         0         0           00         0         0           00         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0	Swept SA IQ AC 500000 GHz PNO: IFGan 2.36 dB 0 dBm 1 1 1 2.36 dB 0 dBm 1 1 2.36 dB 0 dBm 1 1 2.36 dB 0 dBm 1 1 2.36 dB 0 dBm	SENSE:IN Wide Trig: n:Low #Atte	Free Run en: 30 dB	2441MHz	:>100/100 Mk	r1 2.440 9 -2.8	2M Jan 11, 2023 Kei II 2 3 4 5 Kei II 2 3 4
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ent Spectrum Analyzer R L RF		SENSE:INT	ALIGNAUTO		02:42:24 PM	Jan 11, 2024
enter Freq 2.47	9500000 GHz	Wide 🧔 Trig:Fi	#Avg reeRun Avg H	Type: RMS lold:>100/100	TRAC TYP DE	123456 MMMMMM PNNNNN
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ent Spectrum Analyzer R L RF !	50 Ω AC	SENSE:INT	ALIGN AUTO		02:44:34 PM	Jan 11, 2024
nter Freq 2.40			reeRun Avg[H	Type: RMS lold:>100/100	TRAC TYP DE	123456 MWWWW PNNNNN
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enter Freq 2.441	PNO:	:Wide 🖵 Trig in:Low #At	g: Free Run ten: 30 dB	#Avg Type Avg Hold:	e: RMS >100/100	Т	RACE 123456 TYPE MWWWWWW DET PNNNNN
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Res BW 30 kHz	X	#VBW 10	0 KHZ	FUNCTION WIDTH		D 2.133 ms	s (1001 pts)
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RL RF 50	500000 GHz	SENSE:INT	ALIGN AUTO #Avg Type: RM	02:50:17 PM Jan 11, 2024
	PNO IFGa	:Wide 🍙 Trig:FreeRu in:Low #Atten:30 dB	n Avg Hold:>100	AS TRACE 12345 100 TYPE MAXAMAN DET P.N.N.N
Ref Offset 2	2.34 dB			Mkr1 2.401 986 GHz -2.317 dBm
dB/div Ref 20.00	) dBm			-2.517 dBi
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enter 2.402500 GH				Span 2.000 MH:
Res BW 30 kHz	12	#VBW 100 kHz		Sweep 2.133 ms (1001 pts
R MODE TRC SCL	X	Y FUNCTIO	DN FUNCTION WIDTH	FUNCTION VALUE
1 N 1 F 2 N 1 F	2.401 986 GHz 2.402 986 GHz	-2.317 dBm -2.329 dBm		
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5 6 <b></b>				
3			<b>I</b> STATUS	
	C			
	0	FS NVNT 3-DH	1 2441MHz	
	Swept SA			02.52.00.0MJ11_202
RL RF 50	5wept SA Ω AC 500000 GHz	SENSE:INT	ALIGN AUTO #Avg Type: RM	02:52:20 PM Jan 11, 202- AS TRACE 23 23 45 MON TYPE MAANANA
RL RF 50	5wept SA Ω AC 500000 GHz PN0		ALIGNAUTO #Avg Type: RM n Avg Hold>100	1S TRACE 1 2 3 4 5 /100 TYPE MWWWW DET P N N N
RL RF 50 enter Freq 2.441 Ref Offset	Swept SA	SENSE:INT	ALIGNAUTO #Avg Type: RM n Avg Hold>100	AS TRACE 12345 100 TYPE MWWWW Det PNNNN Mkr1 2.440 986 GH2
enter Freq 2.441	Swept SA	SENSE:INT	ALIGNAUTO #Avg Type: RM n Avg Hold>100	AS TRACE 12345 100 TYPE MWWWW Det PNNNN Mkr1 2.440 986 GH2
RL RF 50 enter Freq 2.4415 Ref Offset 2 dB/div Ref 20.00	Swept SA	SENSE:INT	ALIGNAUTO #Avg Type: RM n Avg Hold>100	AS TRACE ID 29 45 TYPE MANNAN DET P.N.N.N. Mkr1 2.440 986 GH; -2.819 dBm
RL RF 50 enter Freq 2.4415 Ref Offset 2 dB/div Ref 20.00	Swept SA	SENSE:INT	ALIGNAUTO #Avg Type: RM n Avg Hold>100	AS TRACE 12345 100 TYPE MWWWW Det PNNNN Mkr1 2.440 986 GH2
RL RF 50 enter Freq 2.4415 Ref Offset 2 dB/div Ref 20.00	Swept SA	SENSE:INT	ALIGNAUTO #Avg Type: RM n Avg Hold>100	AS TRACE ID 29 45 TYPE MANNAN DET P.N.N.N. Mkr1 2.440 986 GH; -2.819 dBm
RL RF 50 enter Freq 2.4415 Ref Offset 2 dB/div Ref 20.00	Swept SA	SENSE:INT	ALIGNAUTO #Avg Type: RM n Avg Hold>100	AS TRACE ID 29 45 TYPE MANNAN DET P.N.N.N. Mkr1 2.440 986 GH; -2.819 dBm
RL RF 50 enter Freq 2.4415 Ref Offset 2 dB/div Ref 20.00	Swept SA	SENSE:INT	ALIGNAUTO #Avg Type: RM n Avg Hold>100	AS TRACE ID 29 45 TYPE MANNAN DET P.N.N.N. Mkr1 2.440 986 GH; -2.819 dBm
RL RF 50 enter Freq 2.4415 Ref Offset 2 dB/div Ref 20.00	Swept SA	SENSE:INT	ALIGNAUTO #Avg Type: RM n Avg Hold>100	AS TRACE ID 29 45 TYPE MANNAN DET P.N.N.N. Mkr1 2.440 986 GH; -2.819 dBm
RL         RF         50           enter Freq 2.4415         Ref Offset         Ref Offset           dB/div         Ref 20.00         Ref 20.00           0	Swept SA	SENSE:INT	ALIGNAUTO #Avg Type: RM n Avg Hold>100	AS TRACE ID 29 45 TYPE MANNAN DET P.N.N.N. Mkr1 2.440 986 GH; -2.819 dBm
RL         RF         50           enter Freq 2.4415         Ref Offset         Ref Offset           dB/div         Ref 20.00         Ref 20.00           0	Swept SA	SENSE:INT	ALIGNAUTO #Avg Type: RM n Avg Hold>100	AS TRACE ID 29 45 TYPE MANNAN DET P.NNNN Mkr1 2.440 986 GH; -2.819 dBm
RL         RF         50           enter Freq 2.4415         Ref Offset:         Ref Offset:           dB/div         Ref 20.00         Ref 20.00           00	wept SA Ω AC 500000 GHz PN0 IFGa 2.36 dB 0 dBm 1 1	SENSE:INT	ALIGNAUTO #Avg Type: RM n Avg Hold>100	15 TRACE DI 23 45 TYPE MANNE Mkr1 2.440 986 GH; -2.819 dBm -2.819 dBm -2.819 dBm -2.819 dBm -2.819 dBm
RL         RF         50           enter Freq 2.4415         Ref Offset:         3           dB/div         Ref 20.00         3           d0	wept SA 12 AC FRO 500000 GHz PRO IFGa 2.36 dB 0 dBm	SENSE:INT	ALIGNAUTO #Avg Type: Rh n Avg Hold>100	AS TRACE DI 29 45 TYPO TYPE MANY AND
RL         RF         50           enter Freq 2.4415         Ref Offset:         State           dB/div         Ref 20.00         State           00	wept SA           12         AC           500000 GHz         PNO           FRa         2.36 dB           0 dBm         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         <	SENSE:INT	ALIGNAUTO #Avg Type: Rh n Avg Hold>100	15 TRACE DI 23 45 TYPE MANNE Mkr1 2.440 986 GH; -2.819 dBm -2.819 dBm -2.819 dBm -2.819 dBm -2.819 dBm
RL         RF         50           enter Freq 2.4415         Ref Offset:         Ref 20.00           aB/div         Ref 20.00         Ref 20.00	xwept SA Q AC 500000 GHz PRO IFGa 2.56 dB 0 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	SENSE:INT	ALIGNAUTO #Avg Type: Rh n Avg Hold>100	AS TRACE DI 29 45 TYPO TYPE MANY AND
RL         RF         50           enter Freq 2.4415         Ref Offset:         3           dB/div         Ref 20.00         9           000	wept SA           12         AC           500000 GHz         PNO           FRa         2.36 dB           0 dBm         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         <	SENSE:INT	ALIGNAUTO #Avg Type: Rh n Avg Hold>100	AS TRACE DI 29 45 TYPO TYPE MANY AND
RL         RF         50           enter Freq 2.4415         Ref Offset:         3           dB/div         Ref 20.00         9           gg	wept SA           12         AC           500000 GHz         PNO           FRa         2.36 dB           0 dBm         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         <	SENSE:INT	ALIGNAUTO #Avg Type: Rh n Avg Hold>100	AS TRACE DI 29 45 TYPO TYPE MANY AND
RL         RF         50           enter Freq 2.4415         Ref Offset:         Ref Offset:           dB/div         Ref 20.00         Ref 20.00           0	wept SA           12         AC           500000 GHz         PNO           FRa         2.36 dB           0 dBm         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         <	SENSE:INT	ALIGNAUTO #Avg Type: Rh n Avg Hold>100	AS TRACE DI 29 45 TYPO TYPE MANY AND



	CFS NVNT 3-DH	1 2480MHz	
Agilent Spectrum Analyzer - Swept SA           W         RL         RF         50 Ω         AC           Center Freq 2.479500000 GHz	PNO: Wide Trig: Free Rur	ALIGNAUTO #Avg Type: RMS Avg Hold:>100/100	02:53:57 PM Jan 11, 2024 TRACE 12 3 4 5 6 TYPE MWWWWW
Ref Offset 2.4 dB	IFGain:Low #Atten: 30 dB		Mkr1 2.478 984 GHz -3.598 dBm
-20.0			
-50.0			
Center 2.479500 GHz #Res BW 30 kHz	#VBW 100 kHz	Sw	Span 2.000 MHz reep 2.133 ms (1001 pts)
MKR         MODE         TRC         SCL         X           1         N         1         f         2.478         984         GH           2         N         1         f         2.479         986         GH           3         4         5         5         6         6         6         7         7         7         7	Y FUNCTIO Hz -3.598 dBm Hz -3.619 dBm	N FUNCTION WIDTH	FUNCTION VALUE
8 9 9 10 11 11 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		La STATUS	Y

No.: BCTC/RF-EMC-005

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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



	Hop	Test Grap -Ding No. NVNT 1		
ilent Spectrum Analyz		SENSE:INT	ALIGNAUTO	02:58:01 PM Jan 11, 2024
	41750000 GHz	NO: Fast Trig: Free Run Sain:Low #Atten: 30 dB	#Avg Type: RMS	TRACE 123456 TYPE MWWWWW DET PNNNN
	fset 2.36 dB 0.00 dBm		Mkr1	2.401 920 5 GHz -1.486 dBm
	MUMM MANAM		And an and a second s	MMMMM
				hen
tart 2.40000 GH	lz			Stop 2.48350 GHz
Res BW 100 kH	z	#VBW 300 kHz	-	8.000 ms (1001 pts)
1 N 1 f 2 N 1 f	2.401 920 5 GHz 2.480 160 0 GHz	-1.486 dBm -2.732 dBm		
3 4 5				
6 6 7 6				
8 9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6				
1				~
3				
ilent Spectrum Analyz		oing No. NVNT 2-	DH1 2441MHZ	
RL RF	50 Ω AC 41750000 GHz	SENSE:INT	ALIGNAUTO #Avg Type: RMS Avg Hold:>100/100	03:02:39 PM Jan 11, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWWW
	IFG	Sain:Low #Atten: 30 dB		DET P NNNN 2.401 586 5 GHz
	fset 2.36 dB			-5.530 dBm
	0.00 dBm			
0 dB/div Ref 2	0.00 dBm			<u>م</u> 2
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 dBm	www.	handrand	11111111111111111111111111111111111111
0 dB/div Ref 2 99 100 100 100 100 100 100 100 100 100	0.00 dBm	www.	hunnunhunnun	
0 dB/div Ref 2 99 0.00 1 0.00 0.0 0.0	0.00 dBm	www.www.www.www.www.www.www.www.www.ww	yannangannan	
	0.00 dBm		hunnunnun	mmmm <sup>2</sup>
	0.00 dBm		yaaana	
	0.00 dBm		Yuuunun	
0 dB/div Ref 2	0.00 dBm	#VBW 300 kHz	Sweep	Stop 2.48350 GHz 8.000 ms (1001 pts)
dB/div         Ref 2           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1	0.00 dBm	#VBW 300 kHz	Sweep	Stop 2.48350 GHz
dB/div         Ref 2           0	0.00 dBm	#VBW 300 kHz	Sweep	Stop 2.48350 GHz 8.000 ms (1001 pts)
dB/div         Ref 2           9         1           00         1           01         1           02         1           03         1           04         1           05         1           06         1           07         1           08         1           09         1           00         1           01         1           02         1           03         1           04         1           05         1	0.00 dBm	#VBW 300 kHz	Sweep	Stop 2.48350 GHz 8.000 ms (1001 pts)
dB/div         Ref 2           29         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1	0.00 dBm	#VBW 300 kHz	Sweep	Stop 2.48350 GHz 8.000 ms (1001 pts)





Но	pping No. NVI	NT 3-DH	11 2441MH	Z	
gilent Spectrum Analyzer - Swept SA CRL RF 50 ହ AC Center Freq 2.441750000 GHz		Free Run h: 30 dB	ALIGNAUTO #Avg Type: Avg Hold:>1	RMS 00/100	03:07:31 PM Jan 11, 2024 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N
Ref Offset 2.36 dB 10 dB/div Ref 20.00 dBm				Mkr1 2.4	101 503 0 GHz -6.947 dBm
	ፍፋልጙባስስዲካስስ ክለስ	ΜΑΛΛΛΑΛ	<u>አስ/በ</u> ሰለበ ሲቪ ሲ	በናለቢሊቢልሳይናልሲ	
20.0		1149 99 99 99		1.0.0 Å 1 6 6.0 b 4.7 0 1	
50.0 70.0					
tart 2.40000 GHz Res BW 100 kHz	#VBW 300	kHz		S Sweep 8.0	top 2.48350 GH 00 ms (1001 pts
MKR         MODE         TRC         SCL         X           1         N         1         f         2.401         503         0         GH           2         N         1         f         2.480         160         0         GH           3		FUNCTION	FUNCTION WIDTH	FUNCTION	I VALUE
4 5 6					
7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9					
11		II.	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.

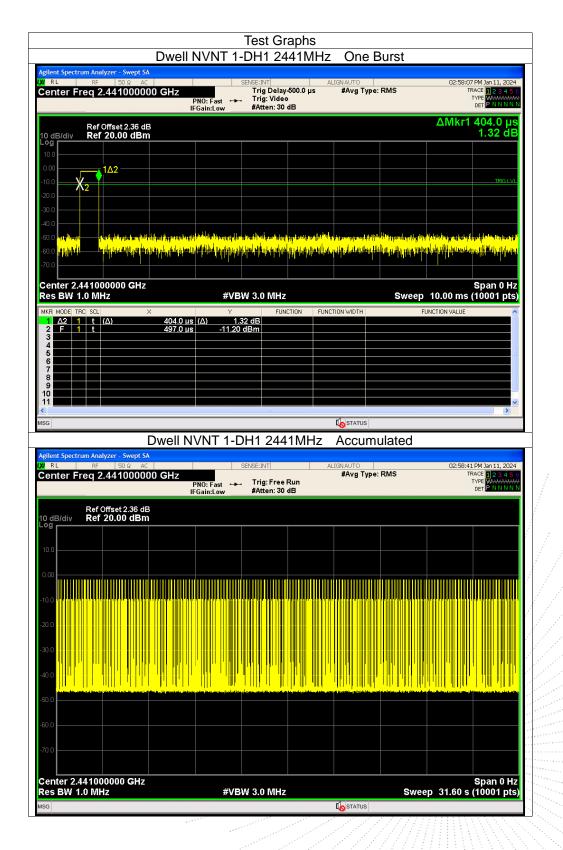
4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.404	128.472	318	31600	400	Pass
1-DH3	2441	1.659	257.145	155	31600	400	Pass
1-DH5	2441	2.908	296.616	102	31600	400	Pass
2-DH1	2441	0.412	130.604	317	31600	400	Pass
2-DH3	2441	1.664	251.264	151	31600	400	Pass
2-DH5	2441	2.912	308.672	106	31600	400	Pass
3-DH1	2441	0.409	130.88	320	31600	400	Pass
3-DH3	2441	1.659	258.804	156	31600	400	Pass
3-DH5	2441	2.913	314.604	108	31600	400	Pass

#### 14.4 Test Result

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

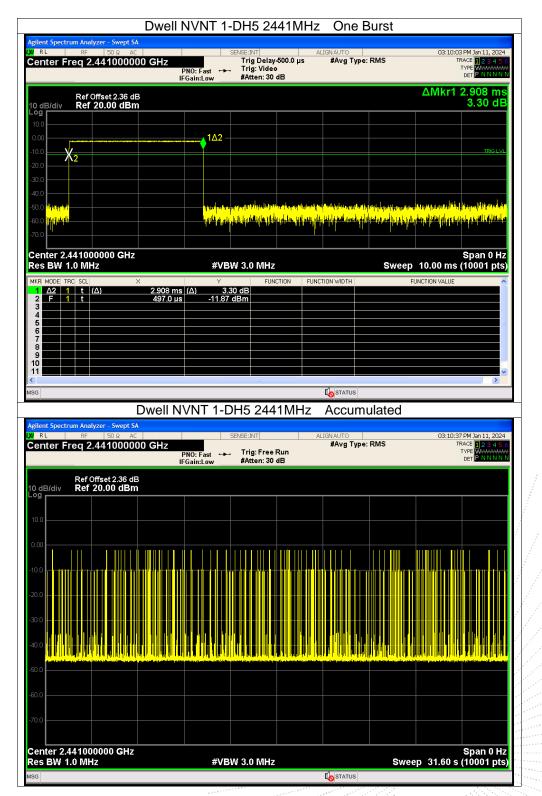






		NVNT 1-	DH3 24	4	One B	Burst		
gilent Spectrum Analyzer - RL RF 5 enter Freq 2.441	0 Ω AC 0000000 GHz	PNO: Fast 🔸	SENSE:INT Trig Delay- Trig: Video #Atten: 30 o	500.0 µs	IGNAUTO #Avg Type:	RMS		6 PM Jan 11, 2024 RACE <b>1 2 3 4 5</b> ( TYPE WAANAAAAA DET P N N N N I
Ref Offset 0 dB/div Ref 20.0							∆Mkr1	1.659 ms 5.45 dB
og 10.0	<u>1Δ2</u>							
10.0 <b>X</b> 2								TRIG L VI.
30.0								
40.0 50.0 <mark>- Հրդիլիդե</mark>	tister of services	uipourin kipo aprista			alit, at taldan e fatt to		din pananan dara	undelingen gegler
50.0 <mark>해약이네네</mark>	الم و دار الم الم من الم	i gisilaya kula akaya ya	ihindanan ana ang ang ang ang ang ang ang ang	li of a static stati The other static stati	i la la de la constantia d La constantia de la constant	hadden bland	Mitis Uses with which its	<mark>Direct Contracting and an and an </mark>
enter 2.441000000	0 GHz	#\/B	W 3.0 MHz			Sween	10.00 me	Span 0 Hz (10001 pts
KR MODE TRC SCL $1  \Delta 2  1  t  (\Delta)$	×	Y		TION FUNC	TION WIDTH	•	UNCTION VALUE	(10001 pts)
2 F 1 t	<u>1.659 ms</u> 497.0 µs							
4 5 6 7								
7 8 9								
a								
G					<b>I</b> STATUS			
		VNT 1-D	DH3 244	1MHz		ulated		
<mark>jilent Spectrum Analyzer -</mark> R L RF 50	<mark>Swept SA</mark> 0 Ω AC     000000 GHz		SENSE:INT	AL	<u> </u>			9 PM Jan 11, 2024 RACE 12 3 4 5 1
rilent Spectrum Analyzer - RL RF S enter Freq 2.441 Ref Offset	Swept SA 0 Q AC 0000000 GHz 1 2.36 dB	PNO: Fast 🔸	SENSE: INT	AL				9 PM Jan 11, 2024 RACE 12 3 4 5
RL RF S enter Freq 2.441 Ref Offset d db/div Ref 26	Swept SA 0 Q AC 0000000 GHz 1 2.36 dB	PNO: Fast 🔸	SENSE: INT	AL				9 PM Jan 11, 2024 RACE 12 3 4 5
RL RF Sienter Freq 2.441 Ref Offset 0 dB/div Ref 20.00	Swept SA 0 Q AC 0000000 GHz 1 2.36 dB	PNO: Fast 🔸	SENSE: INT	AL				9 PM Jan 11, 2024 RACE 1 2 3 4 5 1
glient Spectrum Analyzer RL RF Si enter Freq 2.441 Ref Offset 0 dB/div Ref 20.00 9	Swept SA 0 Q AC 0000000 GHz 1 2.36 dB	PNO: Fast 🔸	SENSE: INT	AL				9 PM Jan 11, 2024 RACE 12 3 4 5 1
glent Spectrum Analyzer - RL RF SI enter Freq 2.441 Ref Offset 0 dB/div Ref 20.00 0 0.00	Swept SA 0 Q AC 0000000 GHz 1 2.36 dB	PNO: Fast 🔸	SENSE: INT	AL				9 PM Jan 11, 2024 RACE 12 3 4 5
RL RF S enter Freq 2.441 RE RF S 0 dB/div Ref 20.00	Swept SA 0 Q AC 0000000 GHz 1 2.36 dB	PNO: Fast 🔸	SENSE: INT	AL				9 PM Jan 11, 2024 RACE 12 3 4 5
RL RF S enter Freq 2.441 Ref Offset 0 dB/div Ref 20.00	Swept SA 0 Q AC 0000000 GHz 1 2.36 dB	PNO: Fast 🔸	SENSE: INT	AL				9 PM Jan 11, 2024 RACE 12 3 4 5
RL RF S enter Freq 2.441	Swept SA 0 Q AC 0000000 GHz 1 2.36 dB	PNO: Fast 🔸	SENSE: INT	AL				9 PM Jan 11, 2024 RACE 12 3 4 5 1
RL RF Sectrum Analyzer Sectrum Analyzer Sectrum Analyzer Sectrum Analyzer Sector Secto	Swept SA 0 Q AC 0000000 GHz 1 2.36 dB	PNO: Fast 🔸	SENSE: INT	AL				9 PM Jan 11, 2024 RACE 12 3 4 5 1
Ref Offset Ref 2.441 Ref 2.	Swept SA 0 Q AC 0000000 GHz 1 2.36 dB	PNO: Fast 🔸	SENSE: INT	AL				9 PM Jan 11, 2024 RACE 12 3 4 5 1
Rt RF Spectrum Analyzer -	Swept SA 0 Q AC 0000000 GHz 1 2.36 dB	PNO: Fast 🔸	SENSE: INT	AL				9 PM Jan 11, 2024 RACE 12 3 4 5 1
Ref Offset Ref 2.441 Ref 2.	Swept SA 0 Q AC 0000000 GHz 1 2.36 dB	PNO: Fast 🔸	SENSE: INT	AL				9 PM Jan 11, 2024 RACE 12 3 4 5 1
Ilent Spectrum Analyzer - Si enter Freq 2.441 Ref Offset D dB/div Ref 20.0 00 00 00 00 00 00 00 00 00 00 00 00	Swept SA O 2 AC 1000000 GHz 2.36 dB 0 dBm 	PNO: Fast FGain:Low	SENSE: INT	AL				9 PM Jan 11, 2024 RACE 12 3 4 5









		IT 2-DH1 2441	MHz One Bur	st	
gilent Spectrum Analyzer - Swept (RL RF 50 ຊ. A Center Freq 2.4410000	AC		ALIGNAUTO 0 µs #Avg Type: RM	04:20:51 <b>S</b> TR T	PM Jan 11, 2024 ACE 123456 YPE WWWWWW DET PNNNNN
Ref Offset 2.36 o	β			ΔMkr1	412.0 μs 1.91 dB
- <b>og</b> 10.0					
0.00 1Δ2 10.0 X2					TRIG LVL
20.0					
40.0	lan in an	t to a decidentials of the	- Itana a tata an Inte		liki iski ul
		<mark>delle dangan dan sebelah dan pertendak dan pertendak dan pertendak dan pertendak dan pertendak dan pertendak d Pertendak dan pertendak dan p</mark>	<mark>e a piperen de la seconda perte</mark>	legis de la construction de la cons	a <mark>tikin da ada asa ba</mark>
70.0	7				Span 0 Hz
Res BW 1.0 MHz	×	#VBW 3.0 MHz	FUNCTION WIDTH	Sweep 10.00 ms (	
1 Δ2 1 t (Δ) 2 F 1 t	412.0 μs (Δ) 497.0 μs	1.91 dB -8.26 dBm		FUNCTION VALUE	
3 4 5					
6 7 8 9					
10					
SG			STATUS		
gilent Spectrum Analyzer - Swept :		2-DH1 2441N	1Hz Accumula	ited	
RL RF 50 2 A enter Freq 2.4410000	000 GHz	sense:INT st ++- Trig: Free Run ow #Atten: 30 dB	ALIGNAUTO #Avg Type: RM	04:21:25 <b>S</b> TR T	PM Jan 11, 2024 <sup>ACE</sup>
Ref Offset 2.36 o 0 dB/div Ref 20.00 dB	iB m				
10.0					
0.00					
• • • •     • • • • • • • • • • • • • • • • • • •					
		#VBW 3.0 MHz		Sweep 31.60 s (	Span 0 Hz





Rb     PD     <			T 2-DH3 2441MHz	One Burst	
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a Buell NVNT 2-DH3 2441MHz Accumulated Buelt Spectrum Analyzer Swept SA RL FF 000 AC Service SA PhO: Fast → Trig: Free Run Batten: 30 dB California California	8				
In the second s					~
Her       Song AC       SENSE:INT       ALIONAUTO       03:11:00 PM Ion 11, 20:44         enter Freq 2.441000000 GHz       PN0; Fast → Trig: Free Run #Atten: 30 dB       Trace Trig: Free Run #Atten: 30 dB       Trace Trig: Free Run #Atten: 40 dB       Trig: Free Run #Atten: 40 dB         00       Ref Offset 2.36 dB       Free Run #Atten: 40 dB       Trig: Free Run #Atten: 40 dB       Trig: Free Run #Atten: 40 dB       Trig: Free Run #Atten: 40 dB         00       Ref Offset 2.36 dB       Free Run #Atten: 40 dB         00       Ref Offset 2.36 dB       Free Run #Atten: 40 dB         00       Ref Offset 2.36 dB       Free Run #Atten: 40 dB <td></td> <td></td> <td></td> <td></td> <td>2</td>					2
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99 99 90 90 90 90 90 90 90 90	j <mark>lent Spectrum Analyzer - Swept S/</mark> RL RF 50Ω AC	A 00 GHz PNO: Fast	SENSE:INT A		TRACE 1 2 3 4 5 6
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enter 2.441000000 GHz es BW 1.0 MHz *VBW 3.0 MHz *VBW 3.	glent Spectrum Analyzer - Swept S/           RL         RF         50 Q         AC           enter Freq 2.44100000           Ref Offset 2.36 dE         Ref Offset 2.36 dE         Ref 20.00 dBm           0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	A OO GHZ PNO: Fast IFGain:Lov	SENSE:INT A		TRACE 1 2 3 4 5 6
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enter 2.441000000 GHz Span 0 Hz es BW 1.0 MHz #VBW 3.0 MHz Sweep 31.60 s (10001 pts)	glent Spectrum Analyzer - Swept Sg       RL     RF     50 Ω       enter Freq 2.44100000       D dB/div     Ref Offset 2.36 dE       0 dB/div     Ref 20.00 dBm       0 0     0.0	A OO GHZ PNO: Fast IFGain:Lov	SENSE:INT A		TRACE 1 2 3 4 5 6
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es BW 1.0 MHz #VBW 3.0 MHz Sweep 31.60 s (10001 pts)	glient Spectrum Analyzer - Swept SJ RL RF 150 Ω AC center Freq 2.44100001 Ref Offset 2.36 dE 0 dB/div Ref 20.00 dBm 9 00 00 00 00 00 00 00 00 00	A OO GHZ PNO: Fast IFGain:Lov	SENSE:INT A		TRACE 1 2 3 4 5 6
es BW 1.0 MHz #VBW 3.0 MHz Sweep 31.60 s (10001 pts)	glient Spectrum Analyzer - Swept SJ           RL         RF         S0 0         Ac           enter Freq 2.44100001         Ref Offset 2.36 dB         dB/div         Ref 20.00 dBm           00         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000	A OO GHZ PNO: Fast IFGain:Lov	SENSE:INT A		TRACE 1 2 3 4 5 6
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epoi



		NT 2-DH5	2441MHz	z One E	Burst		
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70.0							
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5 6 7							
8 9 10							
							>
SG	Dwell NVN	T 2-DH5 2	441MH7	Accum	ulated		
a <mark>gilent Spectrum Analyzer - Swa</mark>		SENSE:INT		ALIGNAUTO	alatoa	00,10,1	7 PM Jan 11, 2024
Center Freq 2.44100	0000 GHz	Fast ↔ Trig: F	ree Run	#Avg Type:	RMS	U.J. 12, 11 TI	RACE 123456 TYPE WWWWWWW DET PNNNNN
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-70.0							
Center 2.441000000 G Res BW 1.0 MHz	iHz	#VBW 3.0 M	H7		Swee	n 31.60 c	Span 0 Hz (10001 pts)
			12		Owee	p <u>JI.00 S</u>	(1000 i pls)





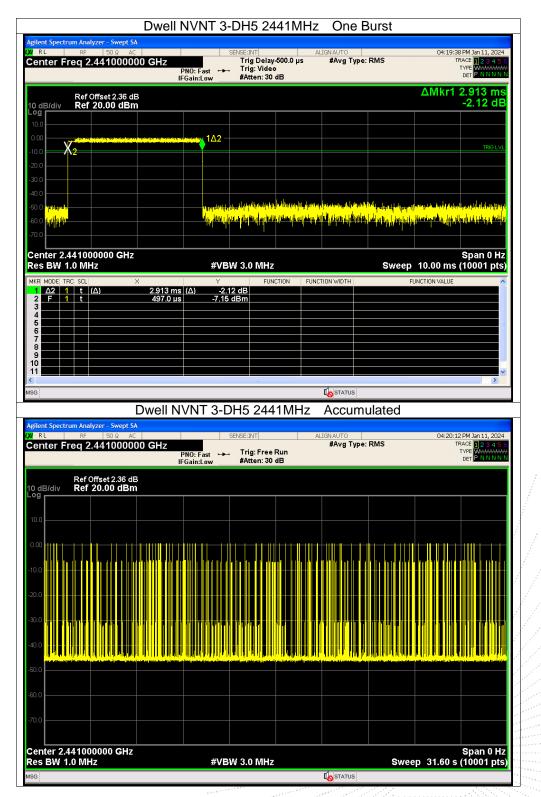
		NVNT 3	-DH1 24	41MHz	One E	Burst		
gilent Spectrum Analyzer - Swept RL RF 50 Ω A enter Freq 2.4410000	000 GHz	PNO: Fast ↔ FGain:Low	SENSE:INT Trig Delay Trig: Video #Atten: 30	-500.0 µs	LIGNAUTO #Avg Type:	RMS	03:07:3 T	7 PM Jan 11, 2024 RACE 1 2 3 4 5 TYPE WWWWW DET P N N N N
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enter 2.441000000 GH: es BW 1.0 MHz	Z	#VB	W 3.0 MHz			Sweep	10.00 ms	Span 0 Hz (10001 pts
KR MODE TRC SCL       1     Δ2     1     t     (Δ)       2     F     1     t	× 409.0 μs 341.0 μs		50 dB	CTION FUNC	TION WIDTH	F	UNCTION VALUE	
3 4 5	041.0 µ3	-14.22						
6 <b></b>								
8								
1					STATUS			
<u></u>	Dwell N	VNT 3-D	DH1 244	1MHz	Accum	ulated		
<mark>ilent Spectrum Analyzer - Swept</mark> RL RF 50 Ω #	AC		SENSE:INT	AL	LIGNAUTO		03:08:1	1 PM Jan 11, 2024
enter Freq 2.4410000		PNO: Fast 🔸	. Trig: Free #Atten: 30		#Avg Type:	RMS	Т	RACE 12345 TYPE WWWWWW DET PNNNN
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dB/div Ref 20.00 dB								
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0.0								
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								0
enter 2.441000000 GH2	2							Span 0 Hz
s BW 1.0 MHz		#VB	W 3.0 MHz		STATUS	Swee	ep 31.60 s	(10001 pts

) ED



		NVNT 3-	-DH3 24	41MHz	One E	Burst		
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enter 2.441000000 GHz es BW 1.0 MHz		#VB	W 3.0 MHz			Sweep	10.00 ms	Span 0 H; (10001 pts
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5 6 7 7 7								
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1			ш					
G	Dwell N					ulated		
ilent Spectrum Analyzer - Swept S	A				Accum	lialeu		
RL RF 50 Ω A enter Freq 2.4410000	00 GHz	PNO: Fast 🔸	SENSE:INT . Trig: Free #Atten: 30	Run	IGN AUTO #Avg Type:	RMS	03:13:C	3 PM Jan 11, 2024 RACE 1 2 3 4 5 TYPE WWWWWW DET P N N N N
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dB/div Ref 20.00 dBn								
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enter 2.441000000 GHz es BW 1.0 MHz		#VB	W 3.0 MHz			Swee	ep 31.60 s	Span 0 H; (10001 pts
3					<b>STATUS</b>			









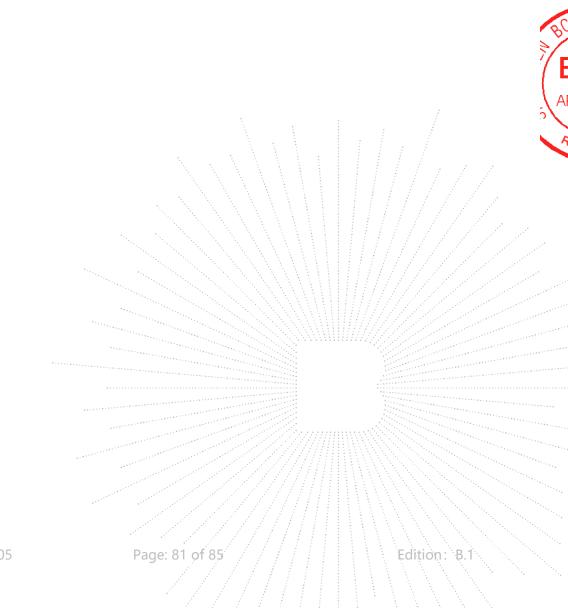
### 15. Antenna Requirement

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



No.: BCTC/RF-EMC-005



### 16. EUT Photographs



NOTE: Appendix-Photographs Of EUT Constructional Details

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Edition: B.1

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<sup>9</sup>Poi



# 17. EUT Test Setup Photographs

Conducted Measurement Photos



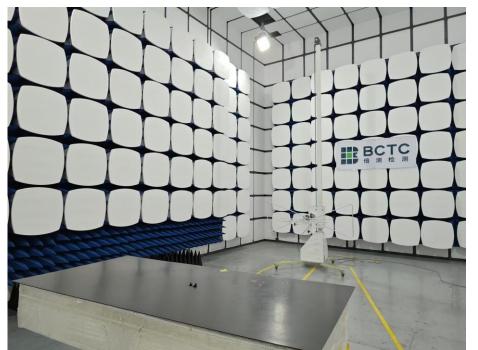
TE. OVE



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### Radiated Measurement Photos





No.: BCTC/RF-EMC-005

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Edition: B.1



### 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

TEL: 400-788-9558

P.C.: 518103

FAX: 0755-33229357

Website: http://www.chnbctc.com

E-Mail: bctc@bctc-lab.com.cn

\*\*\*\*\*\* END \*\*\*\*\*

2 CO.,LTA

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