

Agilent Spectrum Analyzer -	Swept SA		DH1 2402MHz		- F x
enter Freq 2.402		SENSE:INT		Type: RMS old:>100/100	03:47:38 PM Feb 24, 2023 TRACE 1 2 3 4 5 (
		:Wide Trig:Free in:Low #Atten:3			
Ref Offse dB/div Ref 20.0	et 2.34 dB 00 dBm			Mkr	2.402 024 GHz -3.229 dBm
00				²	
		Martin .			
1.0					
.0					
1.0					
.0					
enter 2.402500 G	Hz				Span 2.000 MHz
Res BW 30 KHz	X	#VBW 100 kH		-	2.133 ms (1001 pts)
N 1 f	2.402 024 GHz	-3.229 dBm -3.263 dBm		FUNC	
					8
					-
		III	STATU	IS	Þ
	С	FS NVNT 1-E	DH1 2441MHz		
Agilent Spectrum Analyzer -	Swept SA			2	04·28·38 PM Feb 24 202
RL RF :	Swept SA 50 Ω AC 1500000 GHz PNO:	SENSE:INT	ALIGN AUTO #Avg T ee Run Avg He	2	04:28:38 PM Feb 24, 2023 TRACE 1 2 3 4 5 (TYPE MWWWW
RL RF enter Freq 2.44 Ref Offse	Swept SA 50 Q AC 15000000 GHz PNO: IFGai	SENSE:INT	ALIGN AUTO #Avg T ee Run Avg He	Z Type: RMS old:>100/100	04:28:38 PM Feb 24, 202: TRACE 1 2 3 4 5 TYPE MWWWW DET PNNNN
RL RF enter Freq 2.44 Ref Offse dB/div Ref 20.0	Swept SA 50 Q AC 15000000 GHz PNO: IFGai	SENSE:INT	ALIGN AUTO #Avg T ee Run Avg He	Z Type: RMS old:>100/100	04:28:38 PM Feb 24, 202: TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN
RL RF Treq 2.44 Ref Offse dB/div Ref 20.0	Swept SA 50 Q AC 15000000 GHz PNO: IFGai	SENSE:INT	ALIGN AUTO #Avg T ee Run Avg He	Type: RMS old:>100/100 Mkr1	04:28:38 PM Feb 24, 202: TRACE 1 2 3 4 5 TYPE MWWWW DET PNNNN
RL RF 12 enter Freq 2.44 Ref Offse dB/div Ref 20.0	Swept SA 50 Q AC PNO: I500000 GHz PNO: IFGai et 2.36 dB 00 dBm	SENSE:INT	ALIGN AUTO #Avg T ee Run Avg He	Z Type: RMS old:>100/100	04:28:38 PM Feb 24, 202: TRACE 1 2 3 4 5 TYPE MWWWW DET PNNNN
RL RF Address Ref Offse dB/div Ref 20.0	Swept SA 50 Q AC PNO: I500000 GHz PNO: IFGai et 2.36 dB 00 dBm	SENSE:INT	ALIGN AUTO #Avg T ee Run Avg He	Type: RMS old:>100/100 Mkr1	04:28:38 PM Feb 24, 2023 TRACE 1 2 3 4 5 0 TYPE MWWWWW DET PNNNN
RL RF Addition Ref Offse dB/div Ref 20.1	Swept SA 50 Q AC PNO: I500000 GHz PNO: IFGai et 2.36 dB 00 dBm	SENSE:INT	ALIGN AUTO #Avg T ee Run Avg He	Type: RMS old:>100/100 Mkr1	04:28:38 PM Feb 24, 2023 TRACE 1 2 3 4 5 0 TYPE MWWWWW DET PNNNN
RL RF Offse dB/div Ref 20.1	Swept SA 50 Q AC PNO: I500000 GHz PNO: IFGai et 2.36 dB 00 dBm	SENSE:INT	ALIGN AUTO #Avg T ee Run Avg He	Type: RMS old:>100/100 Mkr1	04:28:38 PM Feb 24, 202: TRACE 1 2 3 4 5 TYPE MWWWW DET PNNNN
RL RF Offse dB/div Ref 20.1	Swept SA 50 Q AC PNO: I500000 GHz PNO: IFGai et 2.36 dB 00 dBm	SENSE:INT	ALIGN AUTO #Avg T ee Run Avg He	Type: RMS old:>100/100 Mkr1	04:28:38 PM Feb 24, 202: TRACE 2 3 4 5 TYPE MWWWW DET P NNNN
RL RF 744	swept SA 50 Q AC 1500000 GHz PNO: IFGai 00 dBm	SENSE:INT	ALIGN AUTO #Avg T ee Run Avg He	Type: RMS old:>100/100 Mkr1	04:28:38 PM Feb 24, 2022 TRACE 12 3 4 - 3 TYPE WWWW DET P NNNN 1 2.440 984 GHz -3.863 dBm
Ref Offse dB/div Ref 20.1	swept SA 50 Q AC 1500000 GHz PNO: IFGai 00 dBm	SENSE:INT	ALIGN AUTO #Avg be Run Avg]H 30 dB	Type: RMS old:>100/100 Mkr1	04:28:38 PM Feb 24, 2023 TRACE 1 2 3 4 5 0 TYPE MWWWWW DET PNNNN
RL RF Offse Briter Freq 2.44 Briter Freq 2.44 Ref Offse Billion Ref 20.0 Ref 20.0 Re	Swept SA 50 Q AC 1500000 GHz PNO: IFGai at 2.36 dB 00 dBm 1 1 4 1 4 1 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT	ALIGN AUTO #Avg be Run Avg]H 30 dB	Type: RMS old:>100/100 Mkr1	04:28:38 PM Feb 24, 2023 TRACE 12 3 4 5 3 TYPE WINNEN 2.440 984 GHz -3.863 dBm
RL RF enter Freq 2.44' Beddiv Ref Offse dB/div Ref 20.1 9 000 000 000 000 000 000 000	Swept SA 50 Q AC 1500000 GHz PNO: IFGai t 2.36 dB 00 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	SENSE:INT	ALIGN AUTO #Avg #e Run Avg]H 0 dB	Type: RMS old:>100/100 Mkr1	04:28:38 PM Feb 24, 2023 TRACE 12 34 - 32 TYPE 12 34 - 32 TYPE 12 34 - 32 TYPE 12 34 - 32 TYPE 12 34 - 32 DET P NNNN 2 2.440 984 GHz -3.863 dBm -3.863 dBm -3.864 dB
RL RF enter Freq 2.44' Ref Offse dB/div Ref 20.1 g	Swept SA 50 Q. AC 1500000 GHz PNO: IFGai AC PNO: IFGai AC PNO: IFGai PNO: IFGai AC PNO: IFGai PNO: IFGai AC PNO: IFGAI AC AC PNO: IFGAI AC AC AC AC AC AC AC AC AC AC	SENSE:INT	ALIGN AUTO #Avg #e Run Avg]H 0 dB	Type: RMS old:>100/100 Mkr1	04:28:38 PM Feb 24, 2023 TRACE 12 34 - 32 TYPE 12 34 - 32 TYPE 12 34 - 32 TYPE 12 34 - 32 TYPE 12 34 - 32 DET P NNNN 2 2.440 984 GHz -3.863 dBm -3.863 dBm -3.864 dB
RL RF enter Freq 2.44' B/div Ref Offse dB/div Ref 20.0 9	Swept SA 50 Q. AC 1500000 GHz PNO: IFGai AC PNO: IFGai AC PNO: IFGai PNO: IFGai AC PNO: IFGai PNO: IFGai AC PNO: IFGAI AC AC PNO: IFGAI AC AC AC AC AC AC AC AC AC AC	SENSE:INT	ALIGN AUTO #Avg #e Run Avg]H 0 dB	Type: RMS old:>100/100 Mkr1	04:28:38 PM Feb 24, 2023 TRACE 12 34 - 32 TYPE 12 34 - 32 TYPE 12 34 - 32 TYPE 12 34 - 32 TYPE 12 34 - 32 DET P NNNN 2 2.440 984 GHz -3.863 dBm -3.863 dBm -3.864 dB





Agilent Spectrum Analyzer - Sv RL RF 50 enter Freq 2.4795	Ω AC 500000 GHz PN0	SENSE:IM D: Wide Trig ain:Low #Att	rr : Free Run en: 30 dB	ALIGN AUTO #Avg Type Avg Hold:	e: RMS >100/100	03:56:41 PM TRACE	Feb 24, 2023
Ref Offset 2 0 dB/div Ref 20.00	2.4 dB 0 dBm				Mki	1 2.478 98 -4.97	32 GHz 7 dBm
og 0.0							
0.0					²	~	
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\sim$			~~~	~~~
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0.0							
0.0							
enter 2.479500 GH Res BW 30 kHz	Z	#VBW 100	) kHz		Sweep	Span 2.0 2.133 ms (1	
KR MODE TRC SCL 1 N 1 f 2 N 1 f	× 2.478 982 GHz 2.479 982 GHz	Ƴ -4.977 dBm -4.939 dBm	FUNCTION	FUNCTION WIDTH	FUN	ICTION VALUE	<u>^</u>
3 4 5		-4.353 UDII					_
6 7 8							
9 0 1							
a la			III	STATUS			•
	C	FS NVNT	2-DH1 2				
	Ω AC	SENSE:IN	IT	ALIGN AUTO		04:09:47 PN	- 🗗 🔜
enter Freq 2.4025	PNC		: Free Run en: 30 dB	#Avg Type Avg Hold:		TYPE	123450 MWWWWW PNNNN
Ref Offset 2 dB/div Ref 20.00					Mki	1 2.402 1 -8.04	56 GHz 9 dBm
				$\sim$		$2^2$	
				~ ~ ~			~~~~
0.0							
0.0							
0.0							
enter 2.402500 GH Res BW 30 kHz	Z	#VBW 100	) kHz		Sweep	Span 2.0 2.133 ms (1	
KR MODE TRC SCL	× 2.402 156 GHz	Y -8.049 dBm	FUNCTION	FUNCTION WIDTH	FUN	ICTION VALUE	
2 N 1 f 3 4	2.403 154 GHz	-8.080 dBm					
5 6 7							
8							

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Agilent Spectrum Analyzer R L RF	- Swept SA 50 Ω AC	SENS	F·INT	ALIGN AUTO		03-59-	14 PM Feb 24, 202
	1500000 GHz	): Wide 😱 T	rig: Free Run Atten: 30 dB	#Avg Typ Avg Hold			RACE 1 2 3 4 5 TYPE M DET P NNNN
Ref Offs	et 2.36 dB				М	kr1 2.440 -8	994 GHz 787 dBm
	00 dBm						
					×2		
		~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\sim$	$\sim$	·	
0							
nter 2.441500 C es BW 30 kHz	GHZ	#VBW 1	00 kHz		Swee	Spar p 2.133 m	n 2.000 MHz s (1001 pts
MODE TRC SCL	× 2.440 994 GHz	۲ -8.787 dBr	FUNCTION	FUNCTION WIDTH		FUNCTION VALUE	
N 1 f	2.441 994 GHz	-8.936 dBr					
							=
				STATUS			
lgilent Spectrum Analyzer		CFS NVN	T 2-DH1 2	480MHz			- 6 -
	50 Ω AC	SENS	E:INT	ALIGN AUTO #Avg Typ	e: RMS		15 PM Feb 24, 202 RACE 1 2 3 4 5
nier Freq 2.47	PNC		rig: Free Run Atten: 30 dB	Avg Hold	:>100/100		
Ref Offs	et 2.4 dB				Μ	kr1 2.479 -0) 152 GHz .625 dBm
	00 dBm						
0						<u>2</u>	
	~~~~~	<u>,</u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\sim$		2 2 	
o							
0							0.000
	NI-				Swee	spar p 2.133 m	n 2.000 MHz s (1001 pts
nter 2.479500 C	GHz	#VBW 1	00 kHz		Onco		
nter 2.479500 C es BW 30 kHz MODE TRC SCL N 1 f	× 2.479 152 GHz	۲ -9.625 dBr	FUNCTION	FUNCTION WIDTH		FUNCTION VALUE	-
MODE TRC SCL N 1 f	X	Y	FUNCTION	FUNCTION WIDTH		FUNCTION VALUE	
nter 2.479500 ( es BW 30 kHz MODE TRC SCL N 1 f N 1 f	× 2.479 152 GHz	۲ -9.625 dBr	FUNCTION	FUNCTION WIDTH		FUNCTION VALUE	
nter 2.479500 C es BW 30 kHz	× 2.479 152 GHz	۲ -9.625 dBr	FUNCTION	FUNCTION WIDTH		FUNCTION VALUE	
MODE TRC SCL N 1 f	× 2.479 152 GHz	۲ -9.625 dBr	FUNCTION	FUNCTION WIDTH		FUNCTION VALUE	E







RL RF 50		SENSE:IN	ιτ (	ALIGN AUTO			PM Feb 24, 202
enter Freq 2.402	2500000 GHz	): Wide 🗔 Trig	: Free Run ten: 30 dB	#Avg Typ Avg Hold		TRA	CE 1 2 3 4 5 PE MWWW DET P NNNN
Ref Offset dB/div Ref 20.0					Mk	r1 2.401 9 -7.4	928 GH: 162 dBn
	1				2 2		
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		<u> </u>		
.0							
.0							
.0							
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.0							
enter 2.402500 GH tes BW 30 kHz	Hz	#VBW 100) kHz		Sweep	Span 2 2.133 ms	2.000 MH (1001 pts
R MODE TRC SCL	X	Y	FUNCTION	FUNCTION WIDTH		INCTION VALUE	
N 1 f N 1 f	2.401 928 GHz 2.402 920 GHz	-7.462 dBm -7.489 dBm					
			m	STATUS			•
Agilent Spectrum Analyzer - S		FS NVNT	3-DH1 /	2441MHZ			
	0 Ω AC	SENSE:IN	π	ALIGN AUTO #Avg Typ	e: RMS	04:04:53	PM Feb 24, 202 CE 1 2 3 4 5
1101 1 109 2. 44 1	PNC	D:Wide Trig ain:Low #Att): Free Run ten: 30 dB	Avg Hold	:>100/100	די	
Ref Offset	: 2.36 dB				Mk	r1 2.440 9	920 GH 989 dBn
D - 5 00 0							
g	Uabm					-7.5	
g .0					. 2	-7.5	
g .0 				~~~~	¢2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
					¢ ²	~~~~	
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		·····			2 	~~~~~	
					2 		
					2 	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
					2 2 	~~~~~	
g g o o o o o o o o o o o o o	Hz	#VBW 100			Sweep	Span 2	
9 9 9 9 9 9 9 9 9 9 9 9 9 9		۲ -7.989 dBm) kHz Function	FUNCTION WIDTH	Sweep	Span /	
9 9 0 0 0 0 0 0 0 0 0 0 0 0 0	Hz	Y		FUNCTION WIDTH	Sweep	Span 2	
g g g g g g g g g g g g g g		۲ -7.989 dBm		FUNCTION WIDTH	Sweep	Span 2	
g g g g g g g g g g g g g g		۲ -7.989 dBm		FUNCTION WIDTH	Sweep	Span 2	2.000 MH (1001 pts
9 9 10 10 10 10 10 10 10 10 10 10		۲ -7.989 dBm		FUNCTION WIDTH	Sweep	Span 2	

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📕 Agilent Spectrum Anal						
K RL RF	50 Ω AC	SENSE:	INT	ALIGN AUTO	DMC	04:07:57 PM Feb 24, 202
Center Freq 2.			g: Free Run tten: 30 dB	#Avg Typ Avg Hold		TRACE 1 2 3 4 5 TYPE MWWW DET PNNN
10 dB/div Ref	ffset 2.4 dB 20.00 dBm				Mk	r1 2.478 926 GH: -9.038 dBn
10.0						
0.00	1				2	
-10.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
-20.0						
-30.0						
-40.0						
-50.0						
-60.0						
-70.0						
Center 2.47950 #Res BW 30 kH		#VBW 10	0 kHz		Sweep	Span 2.000 MH 2.133 ms (1001 pts
MKR MODE TRC SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUI	ICTION VALUE
1 N 1 f 2 N 1 f	2.478 926 GHz 2.479 922 GHz	-9.038 dBm -9.062 dBm				
3	LIGHT OLL ONL	-5.562 dBm				
4 5						=
6 7						
8						
10						

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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

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Agilent Spectrum Analyzer - So	wept SA			H1 2441MF	Ηz	- @ .
enter Freq 2.441	750000 GHz		int rig: Free Run Atten: 30 dB	ALIGN AUTO #Avg Type Avg Hold:3		04:11:31 PM Feb 24, 2023 TRACE 1 2 3 4 5 (TYPE MWWWW DET P N N N N
Ref Offset					Mkr1 2	2.402 087 5 GHz -1.470 dBm
					ANN AND AN ANA VYVVVVVV	
			·			
0.0						
tart 2.40000 GHz Res BW 100 kHz		#VBW 3	00 kHz		Sweep \$	Stop 2.48350 GHz 3.000 ms (1001 pts)
KR MODE TRC SCL 1 N 1 f 2 N 1 f	× 2.402 087 5 GHz 2.480 076 5 GHz	Y -1.470 dBm -2.737 dBm	FUNCTION	FUNCTION WIDTH	FUNC	TION VALUE
3 4 5						E
6 7 8 9						
0						
G	Цорр	ing No. N		status H1 2441MF		
Agilent Spectrum Analyzer - Si R L RF 50		SENSE			12	- P -
				ALIGN AUTO		04:15:00 PM Feb 24, 2023
enter Freq 2.441	PN		rig: Free Run Atten: 30 dB	ALIGN AUTO #Avg Type Avg Hold:	e: RMS >100/100	04:15:00 PM Feb 24, 2023 TRACE 1 2 3 4 5 (TYPE MWWWW DET P NNNN
Ref Offset	PN IFG 2.36 dB			#Avg Type	>100/100	04:15:00 PM Feb 24, 2023 TRACE 112:34 5 0 TYPE WWWW DET PNNNN 2.401 503 0 GHz -6.608 dBm
Ref Offset: dB/div Ref 20.00	2.36 dB 0 dBm	ain:Low #A	Atten: 30 dB	#Avg Type Avg Hold::	>100/100 Mkr1 2	2.401 503 0 GHz -6.608 dBm
Ref Offset: Ref 20.00	PN IFG 2.36 dB	ain:Low #A	Atten: 30 dB	#Avg Type Avg Hold::	>100/100 Mkr1 2	2.401 503 0 GHz -6.608 dBm
Ref Offset: D dB/div Ref 20.00 Og 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.36 dB 0 dBm	ain:Low #A	Atten: 30 dB	#Avg Type Avg Hold::	>100/100 Mkr1 2	2.401 503 0 GHz -6.608 dBm
Ref Offset: D dB/div Ref 20.00 00 00 00 00 00 00 00 00 00	2.36 dB 0 dBm	ain:Low #A	Atten: 30 dB	#Avg Type Avg Hold::	>100/100 Mkr1 2	2.401 503 0 GHz -6.608 dBm
Ref Offset: 0 dB/div Ref 20.00 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0	2.36 dB 0 dBm	ain:Low #A	Atten: 30 dB	#Avg Type Avg Hold::	>100/100 Mkr1 2	2.401 503 0 GHz -6.608 dBm
Ref Offset: 9 dB/div Ref 20.00 9 d 100 100 100 100 100 100 100 10	2.36 dB 0 dBm	ain:Low #A	Atten: 30 dB	#Avg Type Avg Hold::	>100/100	2.401 503 0 GHz -6.608 dBm
Ref Offset: Ref 20.00 Ref 20.00	2.36 dB 0 dBm ////////////////////////////////////	<u>برمیلاری باری باری باری باری باری باری باری ب</u>	Atten: 30 dB Atten: 40 dB	#Avg Type Avg Hold::	>100/100 Mkr1 2 Mkr1 2 Mkr1 2 Mkr1 2 Mkr1 2 Sweep 2	TRACE 12 3 4 5 TYPE MYNNER 2.401 503 0 GHz -6.608 dBm -6.608 d
Ref Offset: Ref 20.00 Ref 20.00	2.36 dB 0 dBm ////////////////////////////////////	#VBW 30	Atten: 30 dB Atten: 40 dB	#Avg Type Avg Hold:	>100/100 Mkr1 2 Mkr1 2 Mkr1 2 Mkr1 2 Mkr1 2 Sweep 2	2.401 503 0 GHz -6.608 dBm -6.608
aB/div Ref 20.00 ag ag	2.36 dB 0 dBm ////////////////////////////////////	<u>برمیلاری باری باری باری باری باری باری باری ب</u>	Atten: 30 dB Atten: 40 dB	#Avg Type Avg Hold:	>100/100 Mkr1 2 Mkr1 2 Mkr1 2 Mkr1 2 Mkr1 2 Sweep 2	2.401 503 0 GHz -6.608 dBm -6.608



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Нор	ping No. N	/NT 3-D	H1 2441N	ЛНz		-
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.441750000 GHz	SENSE:I			/pe: RMS	04:19:09 PM Fe TRACE	b 24, 20
I		g: Free Run tten: 30 dB	Avg Hol	ld:>100/100		
Ref Offset 2.36 dB 0 dB/div Ref 20.00 dBm -og					-6.389	
10.0 0.00 10.0 1 1/14/14/14/14/14/14/14/14/14/14/14/14/14	Amarala	<u>.</u> እሌሌላኒሌሌላ	เป็นหาะเป็นเป็น	በመንካለ የነበሌ ሊ	ለብሔቤልንሕሊን ኩብ	2 ∧
					<u>•••••</u>	
10.0						
0.0 ⁴						\
tart 2.40000 GHz Res BW 100 kHz	#VBW 30	0 kHz		Sweep	Stop 2.4835 8.000 ms (100	0 GH 01 pt
KR MODE TRC SCL X 1 N 1 f 2.401 670.0 GHz 2 N 1 f 2.479 993.0 GHz 3 3 1 f 2.479 993.0 GHz		FUNCTION	FUNCTION WIDTH	FL	JNCTION VALUE	
5 6 7						
8 9 0						
						•



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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).

14.4 Test Result

DH5 Packet permit maximum 1600 / 79 / 6 hops per second in each channel (5 time slots RX, 1 time slot TX). DH3 Packet permit maximum 1600 / 79 / 4 hops per second in each channel (3 time slots RX, 1 time slot TX).

DH1 Packet permit maximum 1600 / 79 /2 hops per second in each channel (1 time slot RX, 1 time slot TX). So, the Dwell Time can be calculated as follows: DH5:1600/79/6*0.4*79*(MkrDelta)/1000 DH3:1600/79/2*0.4*79*(MkrDelta)/1000 DH1:1600/79/2*0.4*79*(MkrDelta)/1000 Remark: Mkr Delta is once pulse time.

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Modulation	Channel Data	Packet	pulse time(ms)	Dwell Time(s)	Limits(s)
		1DH1	0.383	0.123	0.4
GFSK	Middle	1DH3	1.639	0.262	0.4
		1DH5	2.887	0.308	0.4
		2DH1	0.391	0.125	0.4
π/ 4 DQPSK	Middle	2DH3	1.643	0.263	0.4
		2DH5	2.891	0.308	0.4
		3DH1	0.391	0.125	0.4
8DPSK	Middle	3DH3	1.643	0.263	0.4
		3DH5	2.893	0.309	0.4

Dwe Agilent Spectrum Analyzer - Swept SA	II NVNT 1-D	est Graphs H1 2441MH	z One E	Burst		
RL RF 50 Ω AC enter Freq 2.4410000000 GHz	PNO Fast ↔	SE:INT Trig Delay-500.0 μs Trig: Video #Atten: 30 dB	ALIGN AUTO #Avg Type	RMS		37 PM Feb 24, 2 RACE 1 2 3 4 TYPE WWWW DET PNNN
Ref Offset 2.36 dB dB/div Ref 20.00 dBm					ΔMkr1	383.0 µ 9.54 d
g 1Δ2						
1.0 X2						TRIG L
1.0						
1.0 ^{1.0} <mark>Dany and Alta Marken and Antana Marka Marka 1.0 Marka Jula — Angeling Banka Marka Marka Marka Marka Marka</mark>		nen låt mannen lett i det heledet John fillet fotte projektigen beskelet	en Petranki ang tempinaka Kang Produkti ang tempinaka		<mark>ierrellengenende</mark> Generationering	
10 Ридар 10 Нация и Принатири и Каралија и И 10 Нација и Принатири и И 10 Нација и И 10	<mark>n Marilana (Marila) (</mark> Marila) N				10.00 ms	Span 0 H
0 Drep mi	#VBW 3	3.0 MHz		Sweep	<mark>ister h</mark> ullen of	Span 0 H
10 Project Pro	#VBW 3	3.0 MHz	hay daabdahay aya	Sweep	10.00 ms	Span 0 H
0 0	#VBW 3	3.0 MHz	hay daabdahay aya	Sweep	10.00 ms	Span 0 H
0 0	#VBW 3	3.0 MHz	hay daabdahay aya	Sweep	10.00 ms	Span 0 H



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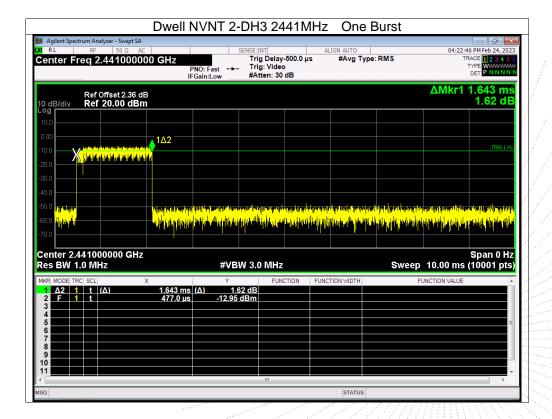


	Dwell I	NVNT 1-D	DH3 244	1 IVIHZ	One E	Suisi		
Agilent Spectrum Analyzer - Swept RL RF 50 Ω enter Freq 2.441000	AC 0000 GHz	SE PNO: Fast ↔→ FGain:Low	NSE:INT Trig Delay-5 Trig: Video #Atten: 30 di	00.0 µs	IGN AUTO #Avg Type	RMS		04 PM Feb 24, 20 RACE 12 3 4 TYPE WWWWW
Ref Offset 2.36 0 dB/div Ref 20.00 d							∆Mkr1	1.639 m -4.16 d
10.0								
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Dwell NVNT 1-DH5 2441MHz One Burst l Agil RL 04:21:52 PM Feb 24 #Avg Type: RMS Trig Delay-500.0 μs Trig: Video #Atten: 30 dB Center Freq 2.441000000 GHz PNO: Fast IFGain:Low DET ΔMkr1 2.887 ms -1.46 dB Ref Offset 2.36 dB Ref 20.00 dBm 10 dB/di -og **r** 1Δ2 X₂ a https://www.internet.com/www.internet.com/www.internet.com/www.internet.com/www.internet.com/www.internet.com Center 2.441000000 GHz Res BW 1.0 MHz Span 0 Hz Sweep 10.00 ms (10001 pts) #VBW 3.0 MHz 2.887 ms (Δ) 497.0 μs -1.46 dB -2.91 dBm 2 1 t (Δ) 1 t

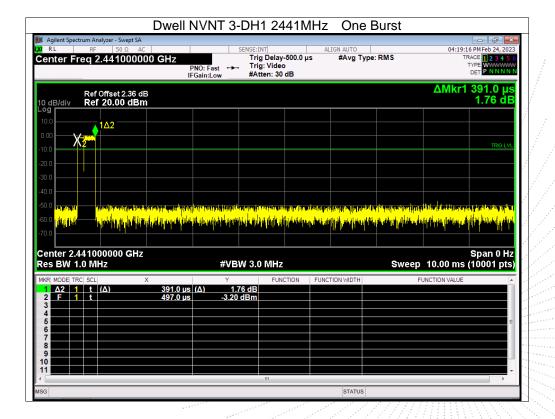


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Dwell NVNT 3-DH5 2441MHz One Burst l Agil RL 04:25:34 PM Feb 24 #Avg Type: RMS Trig Delay-500.0 μs Trig: Video #Atten: 30 dB Center Freq 2.441000000 GHz PNO: Fast IFGain:Low DET ΔMkr1 2.893 ms -0.44 dB Ref Offset 2.36 dB Ref 20.00 dBm l0 dB/di -og **r** <mark>_1∆2</mark> the proper lattice of the sector design and provide the state or write site from the sector of the sector of the Center 2.441000000 GHz Res BW 1.0 MHz Span 0 Hz Sweep 10.00 ms (10001 pts) #VBW 3.0 MHz 2.893 ms (Δ) 477.0 μs -0.44 dE -12.93 dBn 2 <u>1</u> t (Δ) 1 t

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15. Antenna Requirement

15.1 Limit

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

15.2 Test Result

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



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16. EUT Photographs



NOTE: Appendix-Photographs Of EUT Constructional Details

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17. EUT Test Setup Photographs

Conducted emissions



Radiated Measurement Photos



ES FC

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STATEMENT

- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without the "special seal for inspection and testing".
- 4. The test report is invalid without the signature of the approver.
- 5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The test report without CMA mark is only used for scientific research, teaching, enterprise product development and internal quality control purposes.

8. The quality system of our laboratory is in accordance with ISO/IEC17025.

9. 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

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***** END *****

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