

Report No.: TW2501163-05E

Applicant:	DMR Technologies
------------	------------------

Product: Remote Control

Model No.: D-Series H16, D-Series

Trademark: N/A

Test Standards: FCC Part 15.247

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

Terry long

Terry Tang

Manager

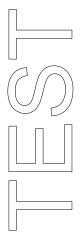
Dated:

February 09, 2025

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com





Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) — Registration No.: 5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.
 Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
 Telephone: (755) 83448688
 Fax: (755) 83442996

1.2 Applicant Details

Applicant:DMR TechnologiesAddress:2050 15th St., Detroit, MI 48216

1.3 Description of EUT

Product:	Remote Control	
Manufacturer:	DMR Technologies	
Address:	2050 15th St., Detroit, MI 48216	
Trademark:	N/A	
Model Number:	D-Series H16	
Additional Model N	umber: D-Series	
Hardware Version: V	V1.0	
Software Version: V	1.0	
Serial No.: 2025H16	16A0001	
Type of Modulation	GFSK, J/4DQPSK, 8DPSK for Bluetooth	
Frequency range	2402-2480MHz for Bluetooth	
Channel Spacing	1MHz for Bluetooth	
Frequency Selection	By software	
Channel Number	79 channels for Bluetooth	
Antenna:	FPC Antenna. The gain of the antennas is 4.54dBi (Get from the antenna	
	specification provided the manufacturer)	
Rating:	Input: DC9V, 2A	
Battery:	DC3.7V, 20000mAh Li-ion battery	

- 1.4 Submitted Sample: 2 Samples
- 1.5 Test Duration 2025-01-21 to 2025-02-09
- 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB

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Radiated Emissions above 1GHz Uncertainty =6.0dB Conducted Power Uncertainty =6.0dB Occupied Channel Bandwidth Uncertainty =5% Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Andy -xing

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-1
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-1
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-1
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-1
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-1
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-1
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-1
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-1
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-1
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-1
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-1
9*6*6 Anechoic			N/A	2022-07-26	2025-07-2
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-1
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-1
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-1
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-1
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2024-07-12	2025-07-1
RF Cable	Zhengdi	7m		2024-07-12	2025-07-1
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-1
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-1
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-1
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-1
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-1

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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adopt any other remedies which may be appropriate.



3.0 **Technical Details**

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Requirement	CFR 47 Section	Result	Notes
Antenna Requirement	15.203, 15.247(b)(4)	Pass	Complies
Maximum Peak Out Power	15.247 (b)(1), (4)	Pass	Complies
Carrier Frequency Separation	15.247(a)(1)	Pass	Complies
20dB Channel Bandwidth	15.247 (a)(1)	Pass	Complies
Number of Hopping Channels	15.247(a)(iii), 15.247(b)(1)	Pass	Complies
Time of Occupancy (Dwell Time)	15.247(a)(iii)	Pass	Complies
Spurious Emission, Band Edge, and Restricted bands	15.247(d),15.205(a), 15.209 (a),15.109	Pass	Complies
Conducted Emissions	15.207(a), 15.107	Pass	Complies
RF Exposure	15.247(i), 1.1307(b)(1)	Pass	Complies

3.2 **Test Standards**

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 **EUT Modification**

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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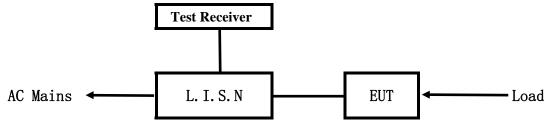
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5. **Power Line Conducted Emission Test**

5.1 Schematics of the test

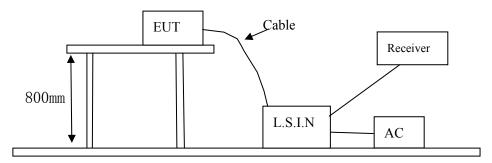


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10–2013. Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
Remote Control	DMR Technologies	D-Series H16, D-Series	2BM3J-H16

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Xiaomi	MDY-12-EF	Input: 100-240V~, 50/60Hz, 1.7A;
			Output: DC5V, 3A;
			5-20A; 6.2- 3.25A(67W Max)

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (dB µ V)	
(MHz)	Quasi-peak Level	Average Level
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*
$0.50~\sim~5.00$	56.0	46.0
$5.00 \sim 30.00$	60.0	50.0

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

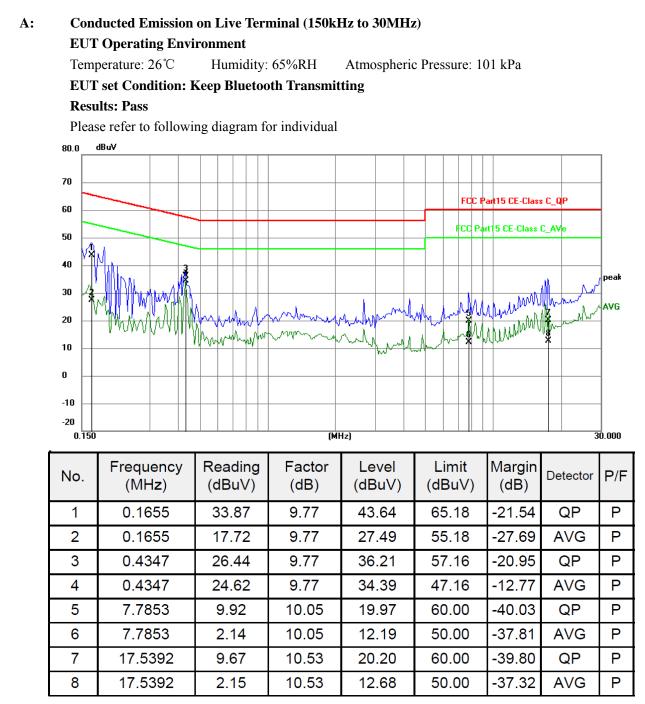
The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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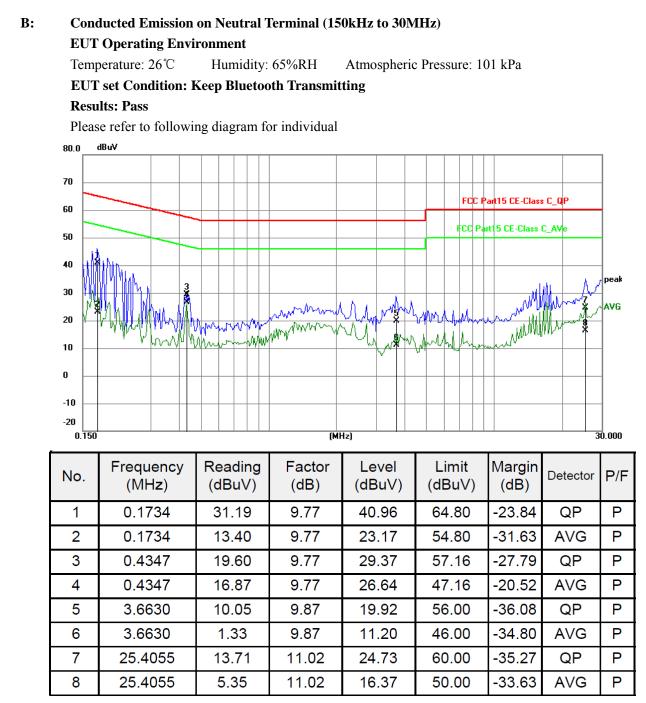




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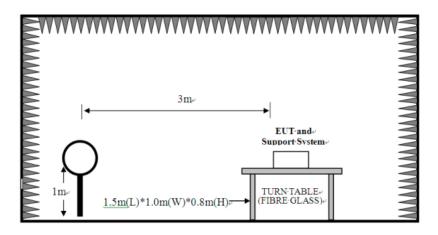


6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz

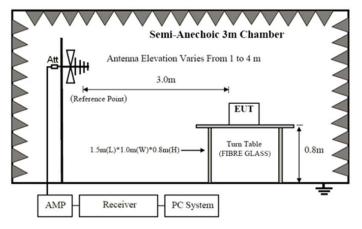


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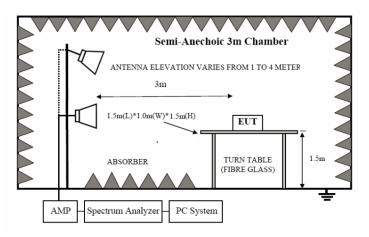
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of the EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

1. RF Voltage (dBuV) = $20 \log RF$ Voltage (uV)

2. In the Above Table, the higher limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. GFSK was the worst case because it has highest output power

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Test result General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal/Vertical (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

Pass

Results:

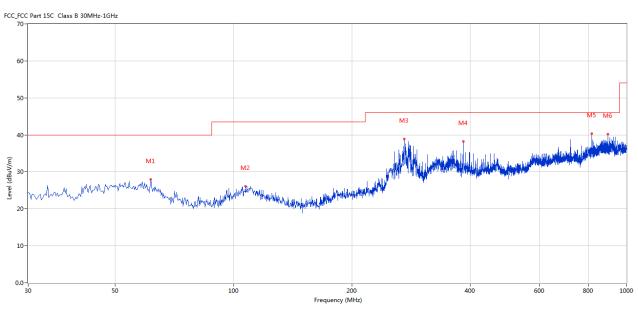
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Test Figure:



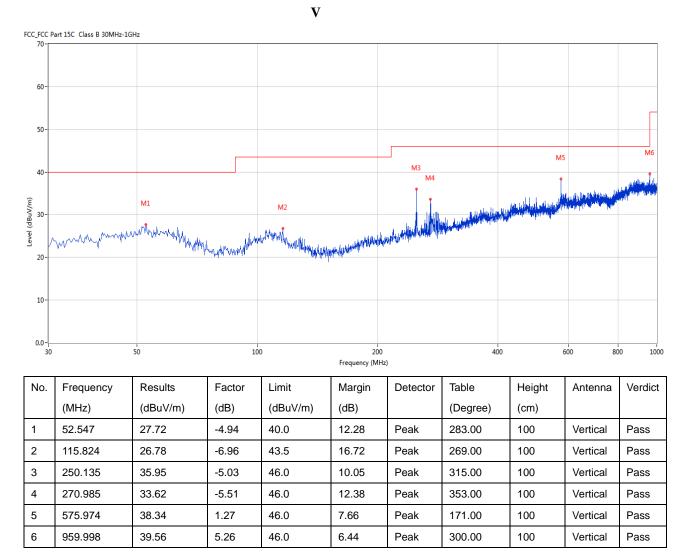
No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	61.517	27.92	-5.54	40.0	12.08	Peak	183.00	100	Horizontal	Pass
2	107.338	26.15	-6.07	43.5	17.35	Peak	333.00	100	Horizontal	Pass
3	272.197	38.85	-5.43	46.0	7.15	Peak	261.00	100	Horizontal	Pass
4	383.962	38.24	-2.04	46.0	7.76	Peak	177.00	100	Horizontal	Pass
5	816.231	40.29	3.57	46.0	5.71	Peak	10.00	100	Horizontal	Pass
6	897.448	40.15	4.86	46.0	5.85	Peak	243.00	100	Horizontal	Pass

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Test Figure:



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optimioni	Transmitting under Low Cl		
Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4804		Н	74(Peak)/ 54(AV)
4804		V	74(Peak)/ 54(AV)
7206		H/V	74(Peak)/ 54(AV)
9608		H/V	74(Peak)/ 54(AV)
12010		H/V	74(Pe k)/ 54(AV)
14412		H/V	74(Pe k)/ 54(AV)
16814		H/V	74(Peak)/ 54(AV)
19216		H/V	74(Peak)/ 54(AV)
21618		H/V	74(Peak)/ 54(AV)
24020		H/V	74(Peak)/ 54(AV)

Operation Mode: Transmitting under Low Channel (2402MHz)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

1		× .	
Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4882		Н	74(Peak)/ 54(AV)
4882		V	74(Peak)/ 54(AV)
7323		H/V	74(Peak)/ 54(AV)
9764		H/V	74(Peak)/ 54(AV)
12205		H/V	74(Peak)/ 54(AV)
14646		H/V	74(Peak)/ 54(AV)
17087		H/V	74(Peak)/ 54(AV)
19528		H/V	74(Peak)/ 54(AV)
21969		H/V	74(Peak)/ 54(AV)
24410		H/V	74(Peak)/ 54(AV)

Operation Mode: Transmitting g under Middle Channel (2441MHz)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

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Operation Mode.	Transmitting under High C	liainiei (2400101112)	
Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4960		Н	74(Peak)/ 54(AV)
4960		V	74(Peak)/ 54(AV)
7440		H/V	74(Peak)/ 54(AV)
9920		H/V	74(Peak)/ 54(AV)
12400		H/V	74(Peak)/ 54(AV)
14880		H/V	74(Peak)/ 54(AV)
17360		H/V	74(Peak)/ 54(AV)
19840		H/V	74(Peak)/ 54(AV)
22320		H/V	74(Peak)/ 54(AV)
24800		H/V	74(Peak)/ 54(AV)

Operation Mode: Transmitting under High Channel (2480MHz)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

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adopt any other remedies which may be appropriate.



7.0 20dB Bandwidth Measurement

7.1 Regulation

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

7.2 Limits of 20dB Bandwidth Measurement

N/A

7.3 Test Procedure.

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span =2MHz, RBW =30 kHz, VBW=100 kHz, Sweep = auto Detector function = peak, Trace = max hold

3. Measure the highest amplitude appearing on spectral display and record the level to calculate results. 6. Repeat above procedures until all frequencies measured were complete.

7.4 Test Result

Tv	be	of	Μ	[<mark>odu</mark>	lati	on:
- 3 1		~	***			

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
		2402		0.927	0	Pass
	1-DH5	2441		0.98	0	Pass
		2480		0.882	0	Pass
		2402		1.239	0	Pass
NVNT	2-DH5	2441	Ant1	1.27	0	Pass
		2480		1.218	0	Pass
		2402		1.254	0	Pass
	3-DH5	2441		1.257	0	Pass
		2480		1.246	0	Pass

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gilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC Senter Freq 2.402000000 G #	Hz Cente	SENSE:INT Freq: 2.402000000 GHz ree Run Avg Hold : 30 dB	ALIGNAUTO 04:19:35 PM Jan 24 Radio Std: None : 100/100 Radio Device: B1	Frequency
Ref Offset 2.92 dB			Mkr3 2.402471 0 -16.448 d	
	2 1	- man - man	3	2.402000000 GH2
7.1 47.1 57.1			- And	
67.1				
Center 2.402 GHz Res BW 30 kHz	#	VBW 100 kHz	Span 2 Sweep 2.667	7 ms CF Step 200.000 kHz
Occupied Bandwidth		Total Power	12.0 dBm	<u>Auto</u> Mar
Transmit Freq Error	8.95 kHz 7.553 kHz	OBW Power	Freq Offse 0 H:	
x dB Bandwidth	927.0 kHz -20dB Bandwid	x dB 	-20.00 dB	
gilent Spectrum Analyzer - Occupied BW RL RF 50 g AC Center Freq 2.441000000 G	-20dB Bandwic	th NVNT 1-DH5 24	STATUS 441MHz Ant1 ALIGN AUTO 04:21:11PM Jan24 Radio Std: None : 100/100	Frequency
glient Spectrum Analyzer - Occupied BW RL RF 50 Q AC Center Freq 2.441000000 C # Ref Offset 2.96 dB	-20dB Bandwic	th NVNT 1-DH5 24	STATUS 441MHz Ant1 ALIGNAUTO 04:21:11 PM Jan24 Radio Std: None	Frequency
sg glient Spectrum Analyzer - Occupied BW d RL RF 50 Ω AC center Freq 2.441000000 G # Ref Offset 2.96 dB # 0 dB/div Ref 22.96 dB 2.96 2.96 7.04 22	-20dB Bandwic	th NVNT 1-DH5 24	status 441MHz Ant1 ALIGN AUTO 04:21:11 PM Jan 24 Radio Std: None : 100/100 Radio Device: B1 Mkr3 2.441491	Frequency
sc sc glient Spectrum Analyzer - Occupied BW Rf 50 Ω AC center Freq 2.441000000 G # # Ref Offset 2.96 dBm # 0 dB/div Ref Offset 2.96 dBm - 2 # 2.96 - - - 2 # 7.04 - - - 2 # 7.04 - - - - 4 1 1 1 1 1 - - 4 1<	-20dB Bandwic	th NVNT 1-DH5 24	status 441MHz Ant1 ALIGN AUTO 04:21:11 PM Jan 24 Radio Std: None : 100/100 Radio Device: B1 Mkr3 2.441491	Frequency rs Bm Center Fred
signed Signed	-20dB Bandwic	th NVNT 1-DH5 24	status 441MHz Ant1 ALIGN AUTO 04:21:11 PM Jan 24 Radio Std: None : 100/100 Radio Device: B1 Mkr3 2.441491	Frequency rs Bm Center Frec
sight Right Ref SO Q AC Right RF SO Q AC So Q AC Center Freq 2.441000000 G # # Ref Offset 2.96 dB # 0 dB/div Ref Offset 2.96 dB	-20dB Bandwid	Ith NVNT 1-DH5 24	STATUS 441MHz Ant1 ALIGNAUTO 04:21:11 PM Jan24 Radio Std: None 100/100 Radio Device: B1 Mkr3 2.441491 C -16.496 d 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5	MHz rs Center Frec 2.441000000 GH; CF Step 200.000 kH;
ss glient Spectrum Analyzer - Occupied BW RL RF 50 R AC center Freq 2.441000000 G # O dB/div Ref Offset 2.96 dB og 0 dB/div Ref Offset 2.96 dB og 0 dB/div Ref 22.96 dB 0 296	-20dB Bandwid	Ith NVNT 1-DH5 24	STATUS 441MHz Ant1 ALIGNAUTO 04:21:11 PM Jan24 Radio Std: None 100/100 Radio Device: B Mkr3 2.441491 C -16.496 d -16.496 d -16.496 d -16.496 d -16.496 d -16.496 d	Center Frequency Center Frequency MHz Cos Star

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Transmit						
	1.1 Freq Error	455 MHz -7.117 kHz	OBW Power	99.	00 %	Freq Offse ० म
Occupi	ed Bandwidth		Total Power	10.5	dBm	Auto Mai
enter 2.40 Res BW 3		#	VBW 100 kHz		Span 2 N Sweep 2.667	
57.1						
57.1 ····································	<u>~</u>					
7.1	A A A A A A A A A A A A A A A A A A A				han a	~
7.1	- A W	¥V · ~	,	- V		
.08		www.	mm	mon	3	2.402000000 GH
og 2.9						Center Free
) dB/div	Ref Offset 2.92 dB Ref 22.92 dBm				2.402612 G -17.692 dE	
	-	Trig: F		ld: 100/100	Radio Device: BTS	
RL	Analyzer Occupied BW RF 50 Ω AC q 2.402000000 Q		SENSE:INT	ALIGN AUTO	04:24:08 PM Jan 24, 2 Radio Std: None	Prequency
			th NVNT 2-DH5	2402MHz A	nt1	
G				STATUS		
	iawiuti	001.3 NHZ	X GD	-20.0	V UB	
Transmit x dB Bar	t Freq Error	-2.650 kHz 881.9 kHz	OBW Power x dB	99. -20.0	00 % 0 dB	он
Occupie	ed Bandwidth 86	52.28 kHz	TOLAL FOWER	11.0	ubili	FreqOffse
Res BW 3			VBW 100 kHz Total Power		Sweep 2.667 dBm	ms CF Step 200.000 kH Auto Mar
enter 2.48					Span 2 M	
7.0						
7.0					- Mar	~~
7.0	Man			hum	m	
.02		2 mm	~	3		
.98						Center Fre
) dB/div og	Ref Offset 2.98 dB Ref 22.98 dBm	1			-17.462 dE	
				Mkr3	2.480438 G	47
			reeRun Avg Ho :30 dB	ld: 100/100	Radio Device: BTS	5

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	it Freq Error	-14.204 kHz	OBW Power	99.00 %	0 H
Occupi	ied Bandwidt 1.	^h 1505 MHz	Total Power	10.1 dBm	Freq Offse
enter 2.4 Res BW 3	30 kHz		VBW 100 kHz	Sweep 2.6	2 MHz 667 ms Auto CF Step 200.000 kH Auto Mai
7.0					
7.0					
7.0 M 🔿				- Marine - M	m m m
7.0	L Ym	Ad a hunder		v ···· () 3	
.98		X.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		2.480000000 GH
og 3.0					Center Free
) dB/div	Ref Offset 2.98 dl Ref 22.98 dBn			Mkr3 2.480595 -19.354	
	eq 2.48000000	GHz Cente Trig: F	r Freg: 2.480000000 GHz	Radio Std: No I: 100/100 Radio Device	ne Frequency
	n Analyzer - Occupied B' RF 50 Ω AC		SENSE:INT	ALIGN AUTO 04:27:01 PM Jar	
		-20dB Bandwid	ith NVNT 2-DH5 2	480MHz Ant1	
G				STATUS	
	nawiuni	1.27V IVINZ	X UD	-20.00 UB	
	it Freq Error ndwidth	-10.036 kHz 1.270 MHz	OBW Power x dB	99.00 % -20.00 dB	ОН
Seculi		" 1566 MHz			FreqOffse
Res BW 3	ied Bandwidt		VBW 100 kHz Total Power	Sweep 2.6 10.9 dBm	67 ms 200.000 kH Auto Ma
enter 2.4			VBW 400 HI-		2 MHz CF Ster
7.0					
7.0 W~~~~ 7.0	AWA				wwwww
7.0					
.04	2 ∧	mar you	www.how	3	
3.0					2.441000000 GH
) dB/div og	Ref 22.96 dBm			-19.589	dBm
	Ref Offset 2.96 di	2		Mkr3 2.441625	GHz
		#IFGain:Low #Atten	: 30 dB	Radio Device	BTS

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RL RF 50 Q RL RF 50 Q enter Freq 2.44100 OdB/div Ref Offset 0 dB/div Ref 22.9 0 29 13.0 2.96 7.04 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	00000 GHz #IFGain:Low 2.296 dB 6 dBm 6 dBm 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Center Trig: Fro: #Atten:		10.3	Radio Std: N Radio Devic 2.44163 -20.555	one #:BTS 7 GHz 9 dBm 1 2 MHz 667 ms	Frequency Center Free 2.441000000 GH 200.000 KH Auto Freq Offse 0 H
RL RF 50 2 enter Freq 2.44100 odB/div Ref Offset 0 dB/div Ref 22.9 og	00000 GHz #IFGain:Low 2.96 dB 6 dBm 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Center Trig: Fro: #Atten:	EW 100 kHz	2 sld: 100/100 Mkr3	Radio Std: N Radio Devic 2.44163 -20.555 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	one #:BTS 7 GHz 9 dBm 1 2 MHz 667 ms	Center Free 2.441000000 GH 2.441000000 GH 2.00.000 KH Auto Mai Freq Offse
RL RF 50 2 eenter Freq 2.44100 o dB/div Ref Offset Ref 22.9 og 30 2 og 30 2 7.04 40 7.04 40 7.04 40 7.04 40 7.04 40 7.04 40 7.04 40 7.04 40 7.04 40 7.04 40 7.04 40 7.04 40 7.04 40 7.04 40 7.04 40 7.05 7.06 7.06 7.06 7.07 7.06 7.08 7.06 7.09 7.06 7.06 7.07 7.07 7.06 7.08 7.07 7.09 7.06 7.06 7.06 7.07 7.06 7.07 <th7.07< th=""> <th7.07< th=""></th7.07<></th7.07<>	2.96 dB 6 dB 7 dB	Center J Trig: Fro #Atten:	EW 100 kHz	2 sld: 100/100 Mkr3	Radio Std: N Radio Devic 2.44163 -20.555 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	one #:BTS 7 GHz 9 dBm 1 2 MHz 667 ms	Center Free 2.441000000 GH CF Stej 200.000 kH
RL RF 50 Q center Freq 2.44100 o dB/div Ref Offset 296 Ref 22.9 296 Ref 22.9 7.04 Ref 22.9 7.05 Ref 22.9 7.06 Ref 22.9 7.07 Ref 22.9 7.08 Ref 22.9 7.09 Ref 22.9 7.01 Ref 22.9 7.02 Ref 22.9 7.03 Ref 22.9 7.04 Ref 22.9 7.05 Ref 22.9 7.07 Ref 22.9 7.08 Ref 22.9 7.09 Ref 22.9 7.01 Ref 22.9 7.02 Ref 22.9 7.03 7.04 Ref 22	2.96 dB	Center J Trig: Fro #Atten:	Freq: 2.44100000 GHz ee Run Avg Hc 30 dB	z bld: 100/100	Radio Std: N Radio Devic 2.44163 -20.555	one E:BTS 7 GHz 9 dBm 1 2 MHz 1 2 MHz	Center Free 2.44100000 GH
RL RF 50 g center Freq 2.44100 Ref Offset 0 dB/div Ref 22.9 99 30 2.96	2.96 dB	Center	Freq: 2.441000000 GH; ee Run Avg Ho	z bld: 100/100	Radio Std: N Radio Device 2.44163	one e: BTS 7 GHz	Center Free
RL RF 50 2 enter Freq 2.44100 0 dB/div Ref 0ffset 0 dB/div Ref 22.9 0 2.96 7.04	2.96 dB	Center	Freq: 2.441000000 GH; ee Run Avg Ho	z bld: 100/100	Radio Std: N Radio Device 2.44163	one e: BTS 7 GHz	Center Free
RL RF 50 2 enter Freq 2.44100 Ref Offset 0 dB/div Ref 22.9 99 99 99 90 130 2.96 7.04	2.96 dB	Center	Freq: 2.441000000 GH; ee Run Avg Ho	z bld: 100/100	Radio Std: N Radio Device 2.44163	one e: BTS 7 GHz	Center Free
RL RF 50 Q enter Freq 2.44100 Ref Offset 0 dB/div Ref Offset 130 2.96 7.04 7.04	2.96 dB	Center l	Freq: 2.441000000 GH; ee Run Avg Ho	z bld: 100/100	Radio Std: N Radio Device 2.44163	one e: BTS 7 GHz	Center Free
RL RF 50 Q enter Freq 2.44100 Ref Offset 0 dB/div Ref Offset 2 96 2.96	2.96 dB	Center l	Freq: 2.441000000 GH; ee Run Avg Ho	z bld: 100/100	Radio Std: N Radio Device 2.44163	one e: BTS 7 GHz	Center Free
RL RF 50 Q enter Freq 2.44100 Ref Offset 0 dB/div Ref 22.9 13.0	2.96 dB	Center l	Freq: 2.441000000 GH; ee Run Avg Ho	z bld: 100/100	Radio Std: N Radio Device 2.44163	one e: BTS 7 GHz	Center Free
RL RF 50 Ω Center Freq 2.44100 Ref Offset 0 dB/div Ref 22.9	2.96 dB	Center l	Freq: 2.441000000 GH; ee Run Avg Ho	z bld: 100/100	Radio Std: N Radio Device 2.44163	one e: BTS 7 GHz	Frequency
RL RF 50 Ω enter Freq 2.44100	90000 GHz #IFGain:Low	Center l	Freq: 2.441000000 GH; ee Run Avg Ho	z bld: 100/100	Radio Std: N Radio Device	one e: BTS	Frequency
RL RF 50Ω		Center l	Freq: 2.441000000 GH; ee Run Avg Ho	z	Radio Std: N	one	Frequency
	-2041	3 Bandwidt	th NVNT 3-DH5				
G				STATU	s		
Transmit Freq Err x dB Bandwidth		1 kHz 4 MHz	OBW Power x dB		9.00 % 00 dB	ŀ	J H
	1.1517		001/-				Freq Offse
Occupied Band			Total Power	9.94	l dBm		<u>Auto</u> Ma
enter 2.402 GHz Res BW 30 kHz		#V	'BW 100 kHz		Spar Sweep 2.	n 2 MHz 667 ms	CF Stej 200.000 kH
57.1							
i7.1 * [*]v_iv * i7.1						Y ⁷	
17.1 mm / mm					h	m	
7.1	John M.						
2.92 (.08	2 00 0000	mm	man	m h h	A 3		2.402000000 GH
12.9							Center Fre
0 dB/div Ref 22.9					2.40263 -19.639		
	#IFGain:Low				Radio Device		
			Freq: 2.402000000 GH; ee Run Avg Ho		04:28:41 PM J Radio Std: N	one	riequency
enter Freq 2.40200	00000 GHz	Center	ENSE:INT	ALIGN AUTO		an 24, 2025	Frequency

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enter Fr	RF 50 Ω AC eq 2.480000000	GHz #IFGain:Low	Center Fr	Run	00000 GHz Avg Hold	ALIGN AUTO	04:31:33 PM Radio Std: I Radio Devic	lone	Frequ	uency
0 dB/div	Ref Offset 2.98 dB Ref 22.98 dBm					Mkr3	2.48063 -20.86	81 GHz 1 dBm		
og 13.0 2.98			21 mil	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						nter Fred 0000 GH:
27.0		w = \^~~	• 			- March				
17.0 17.0 17.0							my	M		
enter 2.4								n 2 MHz		CF Ster
Res BW				W 100 I		0.6	Sweep 2 4 dBm			0.000 kH: Mar
Occup	ied Bandwidth 1.1	י 1510 Mł		i otal P	ower	9.64	t abm		Fre	eq Offse
Transm	nit Freq Error	7.732	Hz	OBW P	ower	9	9.00 %			0 H:
x dB Ba	andwidth	1.246 №	lHz	x dB		-20.	00 dB			

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8. Maximum Output Power 8.1 Regulation

According to §15.247(b)(1), 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 2400-2483.5MHz band:0.125 watts. According to §15.247(b)(4), 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.

8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm or 21dBm.

8.3 Test Procedure

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel; RBW > the 20 dB bandwidth of the emission being measured; VBW = 6MHz, RBW = 2MHz; Sweep = 1.333ms; Detector function = PK; Trace = max hold

3. Measure the highest amplitude appearing on spectral display and record the level to calculate results.

4. Repeat above procedures until all frequencies measured were complete.

Note: The Peak power were measured

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8.4Test Results

Condition	Mode	Frequency	Antenna	Conducted Power	Duty Factor	Total Power	Limit	Verdict
		(MHz)		(dBm)	(dB)	(dBm)	(dBm)	
		2402		6.13	0	6.13	21	Pass
	1-DH5	2441		6.38	0	6.38	21	Pass
		2480		5.64	0	5.64	21	Pass
		2402		5.46	0	5.46	21	Pass
NVNT	2-DH5	2441	Ant1	5.93	0	5.93	21	Pass
		2480		4.98	0	4.98	21	Pass
		2402		5.74	0	5.74	21	Pass
	3-DH5	2441	1	6.33	0	6.33	21	Pass
		2480		5.55	0	5.55	21	Pass

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

2. The worse case was recorded

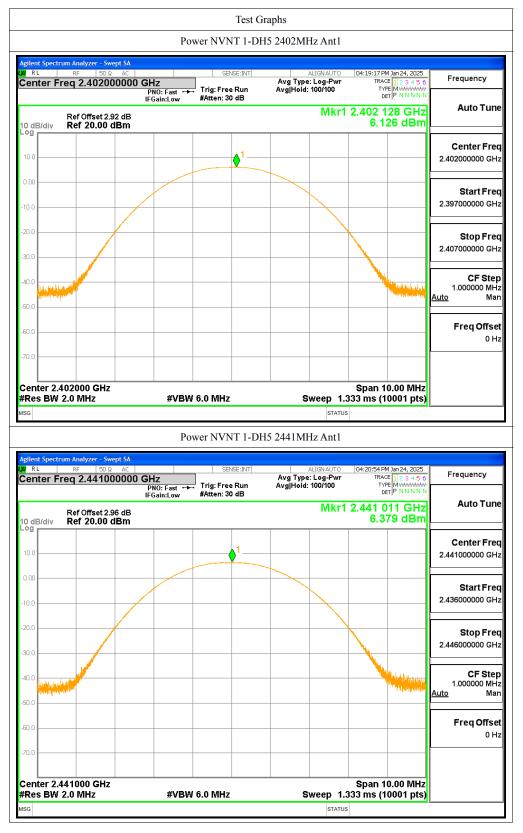
3. The **Peak** power was measured

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adopt any other remedies which may be appropriate.

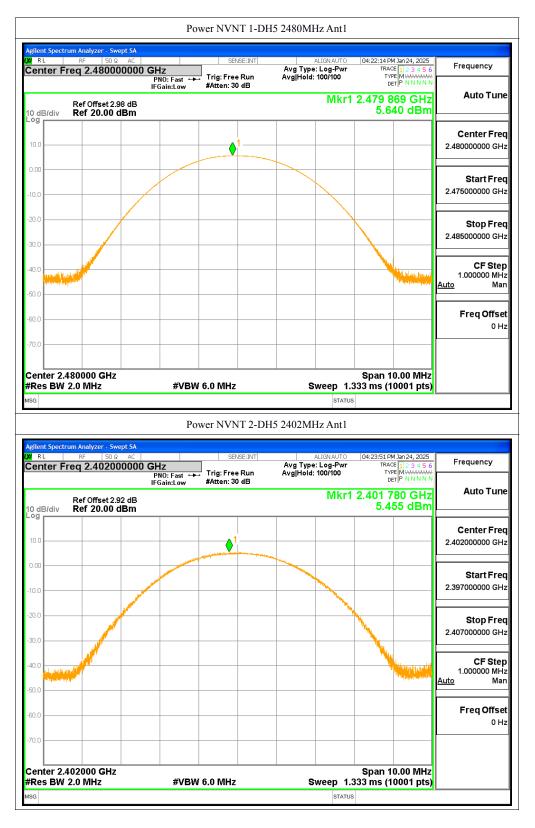




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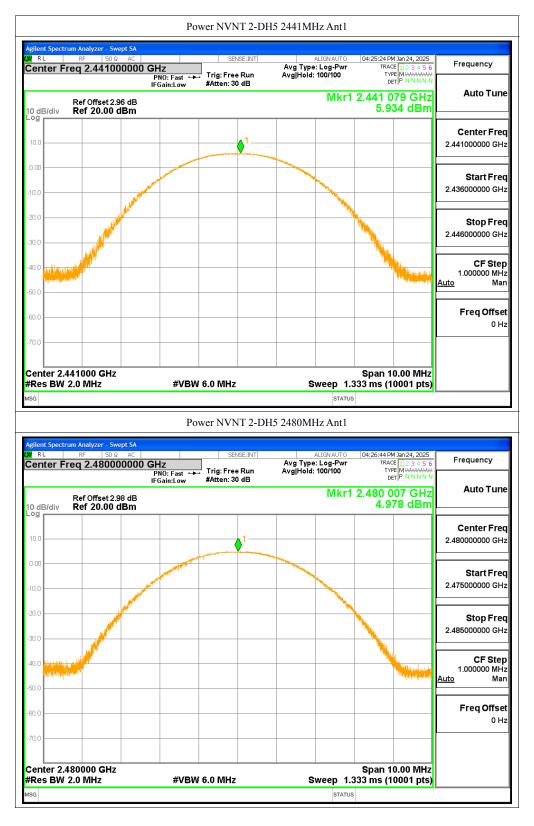




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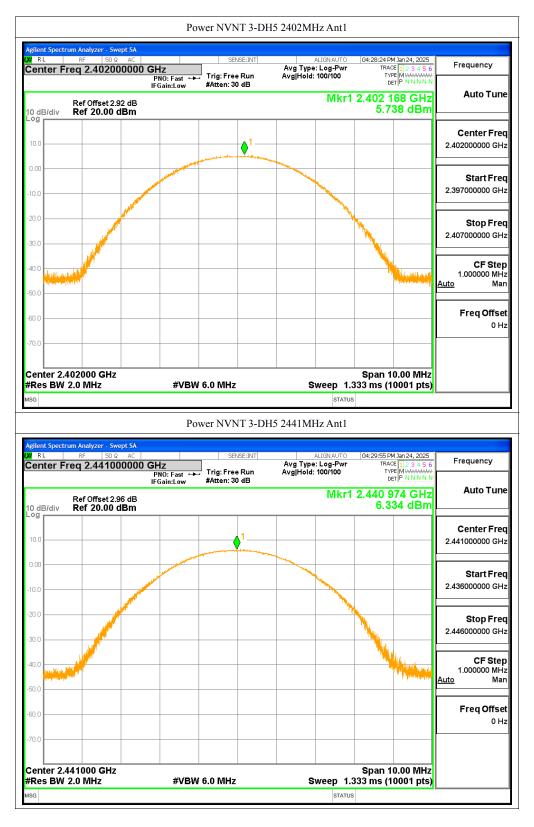




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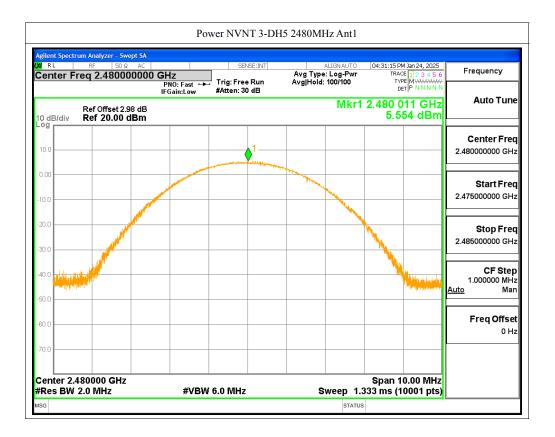




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9. Carrier Frequency Separation

9.1 Regulation

According to §15.247(a)(1), 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 125 mW.

9.2 Limits of Carrier Frequency Separation

The Maximum Power Spectral Density Measurement is 25kHz or two-thirds of the 20dB bandwidth of the hopping Channel which is great.

9.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = wide enough to capture the peaks of two adjacent channels: Resolution (or IF) Bandwidth (RBW) $\geq 1\%$ of the span; Video (or Average) Bandwidth (VBW) $\geq RBW$; Sweep = auto; Detector function = peak; Trace = max hold

3. Measure the separation between the peaks of the adjacent channels using the marker-delta function.

4. Repeat above procedures until all frequencies measured were complete.

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9.4Test Result

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
			2402.02	2402.984	0.964	0.025	Pass
	1-DH5		2440.834	2441.986	1.152	0.025	Pass
			2478.982	2479.84	0.858	0.025	Pass
			2401.84	2402.844	1.004	0.025	Pass
NVNT	2-DH5	Ant1	2440.83	2442.002	1.172	0.025	Pass
			2479.168	2480.024	0.856	0.025	Pass
			2401.836	2402.852	1.016	0.025	Pass
	3-DH5		2440.838	2441.84	1.002	0.025	Pass
			2478.838	2479.842	1.004	0.025	Pass

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		Test C	fraphs		
		CFS NVNT 1-DH	15 2402MHz Ant1		
gilent Spectrum Analyzer - RL RF 5		SENSE:INT	ALIGNAUTO	03:40:04 PM Jan 24, 2025	1
Center Freq 2.402			Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6	Frequency
	IFGain:Low	#Atten: 30 dB	Mket	2.402 020 GHz	Auto Tune
Ref Offset 10 dB/div Ref 20.0			WIKI I	2.402 020 GH2 2.177 dBm	
- og 10.0	1		<mark>2</mark>		Center Free
10.00	Munamon		m	Mm	2.402500000 GH
20.0		"Munn		, mont	Start Free
40.0					2.401500000 GH
50.0					04 E
70.0					Stop Free 2.403500000 GH
Center 2.402500 GH	19			Spap 2 000 MHz	
Res BW 30 kHz		W 100 kHz	Sweep 2	Span 2.000 MHz (133 ms (1001 pts).	CF Step 200.000 kH
MKR MODE TRC SCL	× 2.402 020 GHz	2.177 dBm	JNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Mar
2 N 1 f 3	2.402 984 GHz	3.103 dBm			Freq Offse
4 5 6 7				=	0 H:
7					
8					
8 9 10					
8 9 10 11				×	
8		H	STATUS		
8 9 10 11		CFS NVNT 1-DH	STATUS		
8 9 9 10 11 5 5G gilent Spectrum Analyzer -	Swept SA		15 2441MHz Ant1	•	
8 9 9 10 11 5 9 9 10 9 11 9 11 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Swept SA 0 Ω AC 500000 GHz	SENSE:INT	I5 2441MHz Ant1	03:44:02 PM Jan 24, 2025 TRACE 12:3 4 5 6 TYPE MWWWWW	Frequency
8 9 9 10 11 5 9 9 10 9 11 9 11 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Swept SA ΟΩ AC	SENSE:INT	IS 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid:>100/100	03:44:02 PM Jan 24, 2025 TRACE 11 2 3 4 5 6 TYPE MYMMMMM DET P N N N N	
8 9 10 11 Sc glient Spectrum Analyzer - RL RF 5 Center Freq 2.441 Ref Offset 0 dB/div Ref 20.0	Swept SA © Ω AC 5000000 GHz PN0: Wide C IFGain:Low :2.96 dB	SENSE:INT	IS 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid:>100/100	03:44:02 PM Jan 24, 2025 TRACE 12:3 4 5 6 TYPE MWWWWW	Frequency Auto Tune
8 9 10 11 SG RL RF S Center Freq 2.441 Ref Offset 0 dB/div Ref 20.0	Swept SA © Ω AC 5000000 GHz PN0: Wide C IFGain:Low :2.96 dB	SENSE:INT	IS 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid:>100/100	03:44:02 PM Jan 24, 2025 TRACE [1 2 3 4 5 6 TYPE [MWMMWWW DET P. N.N.N.N 2.440 834 GHZ	Auto Tune
8 9 10 11 SG Blient Spectrum Analyzer 4 RL RF 5 Center Freq 2.441 Ref Offset 0 dB/div Ref 20.0 0 0 0 0 0 0 0 0 0 0 0 0 0	Swept SA © Ω AC 5000000 GHz PN0: Wide C IFGain:Low :2.96 dB	SENSE:INT	IS 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid:>100/100	03:44:02 PM Jan 24, 2025 TRACE [1 2 3 4 5 6 TYPE [MWMMWWW DET P. N.N.N.N 2.440 834 GHZ	
8 9 10 11 1 1 Sc 11 1 1 1 1 1 1 1 1 1 1 1 1 1	Swept SA © Ω AC 5000000 GHz PN0: Wide C IFGain:Low :2.96 dB	SENSE:INT	IS 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid:>100/100	03:44:02 PM Jan 24, 2025 TRACE [1 2 3 4 5 6 TYPE [MWMMWWW DET P. N.N.N.N 2.440 834 GHZ	Auto Tune Center Free 2.441500000 GH
8 9 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Swept SA © Ω AC 5000000 GHz PN0: Wide C IFGain:Low :2.96 dB	SENSE:INT	IS 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid:>100/100	03:44:02 PM Jan 24, 2025 TRACE [] 2 3 4 5 6 TYPE [] 2 3 4 5 6 TYPE [] WMWWWW DET [] NN N N 2.440 834 GHz 3.544 dBm	Auto Tuno Center Fred
8 9 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Swept SA © Ω AC 5000000 GHz PN0: Wide C IFGain:Low :2.96 dB	SENSE:INT	IS 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid:>100/100	03:44:02 PM Jan 24, 2025 TRACE [] 2 3 4 5 6 TYPE [] 2 3 4 5 6 TYPE [] WMWWWW DET [] NN N N 2.440 834 GHz 3.544 dBm	Auto Tune Center Free 2.441500000 GH: Start Free
8 9 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Swept SA © Ω AC 5000000 GHz PN0: Wide C IFGain:Low :2.96 dB	SENSE:INT	IS 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid:>100/100	03:44:02 PM Jan 24, 2025 TRACE [] 2 3 4 5 6 TYPE [] 2 3 4 5 6 TYPE [] WMWWWW DET [] NN N N 2.440 834 GHz 3.544 dBm	Auto Tune Center Free 2.441500000 GH Start Free 2.440500000 GH Stop Free
8 9 10 11 1 1 Sc 9 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Swept SA © Ω AC 5000000 GHz PN0: Wide C IFGain:Low :2.96 dB	SENSE:INT	IS 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid:>100/100	03:44:02 PM Jan 24, 2025 TRACE [] 2 3 4 5 6 TYPE [] 2 3 4 5 6 TYPE [] WMWWWW DET [] NN N N 2.440 834 GHz 3.544 dBm	Auto Tune Center Free 2.441500000 GH: Start Free
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8 9 10 9 10 11 10 11 11 11 11 11 12 11 11 13 11 11 14 11 11 15 11 11 10 11 11 10 11 11 10 10 11 10 10 11 10 10 11 10 10 11 10 10 11 10 10 11 10 11 11	Swept SA 0 Q AC PN0: Wide C IFGain:Low 2.96 dB 0 dBm 1 12 #VB	SENSE:INT Trig: Free Run #Atten: 30 dB	IS 2441MHz Ant1	03:44:02 PM Jan 24, 2025 TRACE [] 23 4 5 6 TYPE [] 23 4 5 6 TYPE [] 24 5 0 TYPE [Auto Tune Center Free 2.441500000 GH: Start Free 2.440500000 GH: Stop Free 2.442500000 GH: CF Step 200.000 kH: Auto
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8 9 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Swept SA 0 Q AC PN0: Wide C IFGain:Low 2.96 dB 0 dBm 1 1 1 2.96 dB 1 1 2.96 dB 1 1 2.96 dB 1 1 2.96 dB 1 1 2.96 dB 1 1 2.96 dB 1 1 2.96 dB 1 2.96	SENSE:INT Trig: Free Run #Atten: 30 dB	IS 2441MHz Ant1	03:44:02 PM Jan 24, 2025 TRACE [] 23 4 5 6 TYPE [] 23 4 5 6 TYPE [] 24 5 0 TYPE [Auto Tune Center Freq 2.441500000 GH: Start Freq 2.440500000 GH: Stop Freq 2.442500000 GH: CF Step 200.000 kH: Auto Freq Offse
8 9 10 9 10 11 10 11 11 11 11 11 12 11 11 13 11 11 14 11 11 15 11 11 10 11 11 10 11 11 10 10 11 10 10 11 10 10 11 10 10 11 10 10 11 10 10 11 10 11 11	Swept SA 0 Q AC PN0: Wide C IFGain:Low 2.96 dB 0 dBm 1 1 1 2.96 dB 1 1 2.96 dB 1 1 2.96 dB 1 1 2.96 dB 1 1 2.96 dB 1 1 2.96 dB 1 1 2.96 dB 1 2.96	SENSE:INT Trig: Free Run #Atten: 30 dB	IS 2441MHz Ant1	03:44:02 PM Jan 24, 2025 TRACE [] 23 4 5 6 TYPE [] 23 4 5 6 TYPE [] 24 5 0 TYPE [Auto Tune Center Freq 2.441500000 GH: Start Freq 2.440500000 GH: Stop Freq 2.442500000 GH: CF Step 200.000 kH: Auto Freq Offse

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gilent Spectrum Analyzer	- Swept SA		H5 2480MHz Ant1		
	50 Ω AC 9500000 GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	03:46:27 PM Jan 24, 2025 TRACE 1 2 3 4 5 6 TYPE MWWWWW	Frequency
	PNO: Wide IFGain:Low	Trig: Free Run #Atten: 30 dB		2.478 982 GHz	Auto Tun
	et 2.98 dB .00 dBm			2.494 dBm	
10.0	1		2		Center Fre
10.00	V. Margany		man Muss	Why why	2.479500000 GH
-20.0		- man M			Start Fre
-30.0					2.478500000 GH
-50.0					Stop Fre
70.0					2.480500000 GH
Center 2.479500 G			9	Span 2.000 MHz	CF Ste
Res BW 30 kHz	#VE ×	3W 100 kHz	Sweep 2	.133 ms (1001 pts)	200.000 kH <u>Auto</u> Ma
1 N 1 f	2.478 982 GHz 2.479 840 GHz	2.494 dBm 3.561 dBm			
2 N 1 f 3 4 5 5 6 7 8 9					Freq Offse 0 H
6				E	
8					
10 11					
				>	
		CFS NVNT 2-DF	status H5 2402MHz Antl	>	
gilent Spectrum Analyzer	50 Ω AC 2500000 GHz PNO: Wide	SENSE:INT		>	Frequency
gjient Spectrum Analyzer RL RF Center Freq 2.40 Ref Offs Ref Offs 10 dB/div Ref 20	50 Ω AC 2500000 GHz	SENSE:INT	H5 2402MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	03:50:45 PM Jan 24, 2025 TRACE [2:3:4 5:6 TYPE [MWWWWW	Frequency Auto Tun
glient Spectrum Analyzer R RL RF Center Freq 2.40 Ref Offs 0 dB/div Ref 20. °9	50 Ω AC 2500000 GHz PNO: Wide IFGain:Low et 2.92 dB	SENSE:INT	H5 2402MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	03:50:45 PM Jan 24, 2025 TRACE 12:3 4 5 6 TYPE MWWWWW DET PINNIN 2.401 840 GHZ	
glient Spectrum Analyzer R RL RF Center Freq 2.40 Ref Offs Ref Offs 0 dB/div Ref 20. 0 0	50 Ω AC 2500000 GHz PNO: Wide IFGain:Low et 2.92 dB	SENSE:INT	H5 2402MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	03:50:45 PM Jan 24, 2025 TRACE 12:3 4 5 6 TYPE MWWWWW DET PINNIN 2.401 840 GHZ	Auto Tun
gilent Spectrum Analyzer a RL RF Center Freq 2.40 Ref Offs Ref Offs 10 dB/div Ref 20. 00 10.0	50 Ω AC 2500000 GHz PNO: Wide IFGain:Low et 2.92 dB	SENSE:INT	H5 2402MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	03:50:45 PM Jan 24, 2025 TRACE 12:3 4 5 6 TYPE MWWWWW DET PINNIN 2.401 840 GHZ	Auto Tun Center Fre 2.402500000 GH
gilent Spectrum Analyzer R RL RF Center Freq 2.40 Ref Offs Ref Offs Ref Offs Ref Offs 0 dB/div Ref 20. 0 00 10.0 20.0	50 Ω AC 2500000 GHz PNO: Wide IFGain:Low et 2.92 dB	SENSE:INT	H5 2402MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	03:50:45 PM Jan 24, 2025 TRACE 12:3 4 5 6 TYPE MWWWWW DET PINNIN 2.401 840 GHZ	Auto Tun Center Fre 2.402500000 GH Start Fre
Ref Offs 0 B 0 B 0 B 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	50 Ω AC 2500000 GHz PNO: Wide IFGain:Low et 2.92 dB	SENSE:INT	H5 2402MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	03:50:45 PM Jan 24, 2025 TRACE 12:3 4 5 6 TYPE MWWWWW DET PINNIN 2.401 840 GHZ	Auto Tun Center Fre 2.402500000 GH
Ref Offs 0 B 0 B 0 B 0 B 0 B 0 Conter Freq 2.40 0 B 0 B 0 Conter Freq 2.40	50 Ω AC 2500000 GHz PNO: Wide IFGain:Low et 2.92 dB	SENSE:INT	H5 2402MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	03:50:45 PM Jan 24, 2025 TRACE 12:3 4 5 6 TYPE MWWWWW DET PINNIN 2.401 840 GHZ	Auto Tun Center Fre 2.402500000 GH Start Fre 2.401500000 GH Stop Fre
gilent Spectrum Analyzer RL RF Center Freq 2.40 Ref Offs: 10 dB/div Ref Offs: 00 dB/div Ref Offs: 00 dB/div Ref Offs: 00 dB/div Ref Offs: 00 dB/div Ref Offs: 0.00	50 Ω AC 2500000 GHz PNO: Wide IFGain:Low et 2.92 dB	SENSE:INT	H5 2402MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	03:50:45 PM Jan 24, 2025 TRACE 12:3 4 5 6 TYPE MWWWWW DET PINNIN 2.401 840 GHZ	Auto Tun Center Fre 2.40250000 GH Start Fre 2.401500000 GH
rglent Spectrum Analyzer R RL RF Center Freq 2.40 Ref Offs: 10 dB/div Ref 20. 0 0 0<	30 Ω AC 2500000 GHz PN0: Wide IFGain:Low et 2.92 dB 00 dBm 1 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT	H5 2402MHz Ant1	03:50:45 PM Jan 24, 2025 TRACE 12:34 5:6 TRACE 12:35 5:7 TRACE 12:35 5:	Auto Tun Center Fre 2.402500000 GH Start Fre 2.401500000 GH Stop Fre 2.403500000 GH
glient Spectrum Analyzer @ RL RF 2 Center Freq 2.40 Ref Offs 2 0 dB/div Ref Offs 2 0 00	30 Ω AC 2500000 GHz PN0: Wide IFGain:Low et 2.92 dB 00 dBm 1 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT	H5 2402MHz Ant1	03:50:45 PM Jan 24, 2025 TRACE 12:3:4:5:6 TYPE MANNIN 2.401 840 GHz 0.693 dBm 0.693	Auto Tun Center Fre 2.402500000 GH 2.401500000 GH Stop Fre 2.403500000 GH
Image: sector mark Analyzer	30 Ω AC 2500000 GHz PNO: Wide IFGain:Low et 2.92 dB 00 dBm 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT	H5 2402MHz Ant1	03:50:45 PM Jan 24, 2025 TRACE 12:3:4:5:6 TYPE 12:3:4:5:6 TYPE 12:3:4:5:6 TYPE 12:3:4:5:6 TYPE 12:3:4:5:6 TYPE 12:0:4:5:1 0:6:9:3: dBm 0:6:9:3: dBm	Auto Tun Center Fre 2.402500000 GH Start Fre 2.401500000 GH Stop Fre 2.403500000 GH CF Stej 200.000 kH Auto Ma
Image: sector mark Analyzer	30 Ω AC 2500000 GHz PN0: Wide IFGain:Low et 2.92 dB 00 dBm 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT	H5 2402MHz Ant1	03:50:45 PM Jan 24, 2025 TRACE 12:3:4:5:6 TYPE MANNIN 2.401 840 GHz 0.693 dBm 0.693	Auto Tun Center Fre 2.402500000 GH 2.401500000 GH 2.401500000 GH 2.403500000 GH CF Ste 200.000 kH Auto Ma
Ref Offs 10 dB/div Ref Offs 10 dB/div Ref 20. 10 dV Ref 20.	30 Ω AC 2500000 GHz PNO: Wide IFGain:Low et 2.92 dB 00 dBm 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT	H5 2402MHz Ant1	03:50:45 PM Jan 24, 2025 TRACE 12:3:4:5:6 TYPE MANNIN 2.401 840 GHz 0.693 dBm 0.693	Auto Tun Center Fre 2.402500000 GH Start Fre 2.401500000 GH Stop Fre 2.403500000 GH CF Stej 200.000 kH Auto Ma
Image: sector mark Analyzer	30 Ω AC 2500000 GHz PNO: Wide IFGain:Low et 2.92 dB 00 dBm 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT	H5 2402MHz Ant1	03:50:45 PM Jan 24, 2025 TRACE 12:3:4:5:6 TYPE MANNIN 2.401 840 GHz 0.693 dBm 0.693	Auto Tun Center Fre 2.402500000 GH 2.401500000 GH 2.401500000 GH 2.403500000 GH CF Ste 200.000 KH Auto Ma
glient Spectrum Analyzer	30 Ω AC 2500000 GHz PNO: Wide IFGain:Low et 2.92 dB 00 dBm 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT	H5 2402MHz Ant1	03:50:45 PM Jan 24, 2025 TRACE 12:3:4:5:6 TYPE MANNIN 2.401 840 GHz 0.693 dBm 0.693	Auto Tun Center Fre 2.402500000 GH 2.401500000 GH 2.401500000 GH 2.403500000 GH CF Ste 200.000 KH Auto Ma
Ref Offs: Center Freq 2.40 Ref Offs: Conter Freq 2.40 Ref Offs: O dB/div Ref 20. O data O data O data O data Center 2.402500 C Res BW 30 kHz MXEM MODE TRC SCL Scl	30 Ω AC 2500000 GHz PNO: Wide IFGain:Low et 2.92 dB 00 dBm 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT	H5 2402MHz Ant1	03:50:45 PM Jan 24, 2025 TRACE 12:3:4:5:6 TYPE MANNIN 2.401 840 GHz 0.693 dBm 0.693	Auto Tun Center Fre 2.402500000 GH 2.401500000 GH 2.401500000 GH 2.403500000 GH CF Ste 200.000 kH Auto Ma

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			CFS NVNT 2-DF			
	n Analyzer - Swept SA RF 50 Ω AC		SENSE:INT	ALIGNAUTO	03:54:43 PM Jan 24, 2025	
	q 2.441500000	GHz PNO: Wide G	Trig: Free Run	Avg Type: Log-Pwr Avg Hold:>100/100	123:54:43 PM Jan 24, 2025 TRACE 123456 TYPE MWWWWW DET P N N N N N	Frequency
		IFGain:Low	#Atten: 30 dB		2.440 830 GHz	Auto Tun
10 dB/div	Ref Offset 2.96 dB Ref 20.00 dBm				1.962 dBm	
10.0	1					Center Fre
-10.0	\sim	mm	mann	mont	Mun march	2.441500000 GH
-20.0						Start Fre
-30.0						2.440500000 GH
-50.0						Stop Fre
-60.0						2.442500000 GH
Center 2.44	1500 GHz				Span 2.000 MHz	CF Ste
#Res BW 3		#VBV	V 100 kHz	•	.133 ms (1001 pts)	200.000 kH Auto Ma
MKR MODE TRC 1 N 1 2 N 1	f 2.44	0 830 GHz 2 002 GHz	1.962 dBm 0.219 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	
3	1 2.44.	2 002 GHZ	0.219 dBm			Freq Offse
4 5 6 7						
8 9						
10 11						
					v	
K AND	Andrew Court Fl	(CFS NVNT 2-DH	status 15 2480MHz Antl	×	
sg sg gilent Spectrum g RL	1 Analyzer - Swept SA RF 50 Q AC q 2.479500000		SENSE:INT			Frequency
Agilent Spectrum	RF 50 Ω AC	GHz PNO: Wide	SENSE:INT	I5 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	03:56:45 PM Jan 24, 2025 TRACE 12 3 4 5 6 TYPE M WWWWWW	Frequency Auto Tun
Agilent Spectrum	Ref Offset 2.98 dB	GHz PNO: Wide	SENSE:INT	I5 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	03:56:45 PM Jan 24, 2025 TRACE [1 2 3 4 5 6 TYPE [M WANNIN DET P. N.N.N.N 2.479 168 GHz	
Agilent Spectrum R RL Center Fre	Ref Offset 2.98 dB	GHz PNO: Wide	SENSE:INT	I5 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	03:56:45 PM Jan 24, 2025 TRACE [1 2 3 4 5 6 TYPE [M WANNIN DET P. N.N.N.N 2.479 168 GHz	Auto Tun
Agilent Spectrum RL Center Fre	RF 50 Ω AC I q 2.479500000 Ref Offset 2.98 dB Ref 20.00 dBm Ref 20.00 dBm	GHz PNO: Wide	SENSE:INT	I5 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	03:56:45 PM Jan 24, 2025 TRACE [1 2 3 4 5 6 TYPE [M WANNIN DET P. N.N.N.N 2.479 168 GHz	Auto Tun Center Fre
Agilent Spectrum RL Center Fre	RF 50 Ω AC I q 2.479500000 Ref Offset 2.98 dB Ref 20.00 dBm Ref 20.00 dBm	GHz PNO: Wide	SENSE:INT	I5 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	03:56:45 PM Jan 24, 2025 TRACE [1 2 3 4 5 6 TYPE [M WANNIN DET P. N.N.N.N 2.479 168 GHz	Auto Tun Center Fre 2.479500000 GH
Agilent Spectrum RL Center Fre 10 dB/div -0g 10.0 .00 <	RF 50 Ω AC I q 2.479500000 Ref Offset 2.98 dB Ref 20.00 dBm Ref 20.00 dBm	GHz PNO: Wide	SENSE:INT	I5 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	03:56:45 PM Jan 24, 2025 TRACE [1 2 3 4 5 6 TYPE [M WANNIN DET P. N.N.N.N 2.479 168 GHz	Auto Tun Center Fre 2.47950000 GH Start Fre 2.478500000 GH
Agilent Spectrum RL Center Fre 10 dB/div -09 10.0 -0.0	RF 50 Ω AC I q 2.479500000 Ref Offset 2.98 dB Ref 20.00 dBm Ref 20.00 dBm	GHz PNO: Wide	SENSE:INT	I5 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	03:56:45 PM Jan 24, 2025 TRACE [1 2 3 4 5 6 TYPE [M WANNIN DET P. N.N.N.N 2.479 168 GHz	Auto Tun Center Fre 2.479500000 GH Start Fre
Image: Section of the sectio	RF 50.Q AC q 2.479500000 Ref Offset 2.98 dB Ref 20.00 dBm	GHz PNO: Wide	SENSE:INT	I5 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	03:56:45 PM Jan 24, 2025 TRACE [1] 23 4 5 6 TYPE [MWMMWM DET P NNNN N 2.479 168 GHz 1.105 dBm	Auto Tun Center Fre 2.47950000 GH 2.47850000 GH 2.47850000 GH Stop Fre 2.48050000 GH
Image: sign of the sector of the se	RF 50.Q AC q 2.479500000 Ref 0ffset 2.98 dB Ref 20.00 dBm	GHz PNO: Wide G IFGain:Low	SENSE:INT Trig: Free Run #Atten: 30 dB	IS 2480MHz Antl Augnauro Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	03:56:45 PM Jan 24, 2025 TRACE 12 3 4 5 6 TYPE MWWWWW DET PINNINN 2.479 168 GHz 1.105 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Auto Tun Center Fre 2.479500000 GH Start Fre 2.478500000 GH Stop Fre 2.480500000 GH CF Ste 200.000 KH
Agilent Spectrum Z RL Center Fre 10 dB/div -09 10.0 -000	PF 50.Q AC q 2.479500000 Ref Offset 2.98 dB Ref 20.00 dBm	GHz PNO: Wide G IFGain:Low #VBV	SENSE:INT Trig: Free Run #Atten: 30 dB	IS 2480MHz Antl ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	03:56:45 PM Jan 24, 2025 TRACE 12 3 4 5 6 TYPE MWWWWW DET PINNINN 2.479 168 GHz 1.105 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Auto Tun Center Fre 2.479500000 GH Start Fre 2.478500000 GH Stop Fre 2.480500000 GH CF Ste 200.000 KH
Agilent Spectrum Agilent Spectrum X RL Center Fre 10 O 10.0 V 10.0 V 10.0 V 10.0 V 10.0 V -20.0	PF 50.Q AC q 2.479500000 Ref Offset 2.98 dB Ref 20.00 dBm	GHz PNO: Wide G IFGain:Low #VBV	SENSE:INT Trig: Free Run #Atten: 30 dB	IS 2480MHz Antl Augnauro Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	03:56:45 PM Jan 24, 2025 TRACE 12 3 4 5 6 TYPE MWWWWW DET PINNINN 2.479 168 GHz 1.105 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Auto Tun Center Fre 2.479500000 GH Start Fre 2.478500000 GH Stop Fre 2.480500000 GH CF Ste 200.000 KH Auto Freq Offsed
Agilent Spectrum Agilent Spectrum M RL Center Fre 10 dB/div 20 of g 10.0	PF 50.Q AC q 2.479500000 Ref Offset 2.98 dB Ref 20.00 dBm	GHz PNO: Wide G IFGain:Low #VBV	SENSE:INT Trig: Free Run #Atten: 30 dB	IS 2480MHz Antl Augnauro Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	03:56:45 PM Jan 24, 2025 TRACE 12 3 4 5 6 TYPE MWWWWW DET PINNINN 2.479 168 GHz 1.105 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Start Fre 2.479500000 GH Start Fre 2.478500000 GH Stop Fre 2.480500000 GH CF Ste 200.000 kH Auto
Agilent Spectrum MRL Center Fre Cog Cog 10.0 0.00 .10.0 .20.0 .30.0 .40.0 .50.0 .60.0 .70.0 Center 2.47 #Res BW 31 Miss M003 1 2 1 3 4 5 6 7 8	PF 50.Q AC q 2.479500000 Ref Offset 2.98 dB Ref 20.00 dBm	GHz PNO: Wide G IFGain:Low #VBV	SENSE:INT Trig: Free Run #Atten: 30 dB	IS 2480MHz Antl Augnauro Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	03:56:45 PM Jan 24, 2025 TRACE 12 3 4 5 6 TYPE MWWWWW DET PINNINN 2.479 168 GHz 1.105 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Auto Tun Center Fre 2.479500000 GH Start Fre 2.478500000 GH Stop Fre 2.480500000 GH CF Ste 200.000 KH Auto Freq Offsed
Agilent Spectrum Agilent Spectrum M RL Center Fre 10 dB/div 20 of g 10.0	PF 50.Q AC q 2.479500000 Ref Offset 2.98 dB Ref 20.00 dBm	GHz PNO: Wide G IFGain:Low #VBV	SENSE:INT Trig: Free Run #Atten: 30 dB	IS 2480MHz Antl Augnauro Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	03:56:45 PM Jan 24, 2025 TRACE 12 3 4 5 6 TYPE MWWWWW DET PINNINN 2.479 168 GHz 1.105 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Auto Tun Center Fre 2.479500000 GH Start Fre 2.478500000 GH Stop Fre 2.480500000 GH CF Ste 200.000 KH Auto Freq Offsed

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		CFS NVNT 3-DF			
gilent Spectrum Analyze					
RL RF Center Freq 2.40	50 Ω AC D2500000 GHz PNO: Wide	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	04:01:30 PM Jan 24, 2025 TRACE 1 2 3 4 5 6 TYPE M	Frequency
	IFGain:Lov	#Atten: 30 dB	Mkr1	2.401 836 GHz	Auto Tun
	set 2.92 dB .00 dBm			1.278 dBm	
10.0	•1		2		Center Fre
-10.0	mm	m	mann	m	2.402500000 GH
-20.0					Start Fre
40.0					2.401500000 GH
-50.0					
-60.0					Stop Fre 2.403500000 GH
Center 2.402500	0U-			Snop 2 000 Milia	
Res BW 30 kHz		/BW 100 kHz	Sweep 2.	Span 2.000 MHz 133 ms (1001 pts)	CF Ste 200.000 kH
MKR MODE TRC SCL	× 2.401 836 GHz	1.278 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Ma
2 N 1 f 3	2.402 852 GHz	0.738 dBm			Freq Offse
4 5 6 7 8 9				E	0 H
7 8					
10					
11					
11 ssg		CFS NVNT 3-DF	status 15 2441MHz Ant1	×	
sg gjient Spectrum Analyze g RL RF	50 Ω AC 11500000 GHz PNO: Wide	SENSE:INT		04:05:20 PM Jan 24, 2025 TRACE 12:23 4 5 6 TYPE M WWWWWW	Frequency
sig sig sig sig sig sig sig sig	50 Ω AC 41500000 GHz PNO: Widd IFGain:Low set 2.96 dB	SENSE:INT	IS 2441 MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	04:05:20 PM Jan 24, 2025	Frequency Auto Tun
Agilent Spectrum Analyze RL RF Center Freq 2.44 Ref Offs Ref Offs Ref Offs Ref 200	50 Ω AC 11500000 GHz PNO: Wid IFGain:Log	SENSE:INT	IS 2441 MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	04:05:20 PM Jan 24, 2025 TRACE [] 2 3 4 5 6 TYPE MMWWWW DET P NNNN 2.440 838 GHZ	
Agilent Spectrum Analyze Agilent Spectrum Analyze R RL RF Center Freq 2.44 Ref Offs O dB/div Ref 20 00 00 00 00 00 00 00 00 00 00 00 00 0	50 Ω AC 41500000 GHz PNO: Widd IFGain:Low set 2.96 dB	SENSE:INT	IS 2441 MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	04:05:20 PM Jan 24, 2025 TRACE [] 2 3 4 5 6 TYPE MMWWWW DET P NNNN 2.440 838 GHZ	Auto Tun
Agilent Spectrum Analyze Agilent Spectrum Analyze R RL RF Center Freq 2.44 Ref Offs O dB/div Ref 20 00 00 00 00 00 00 00 00 00 00 00 00 0	50 Ω AC 41500000 GHz PNO: Widd IFGain:Low set 2.96 dB	SENSE:INT	IS 2441 MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	04:05:20 PM Jan 24, 2025 TRACE [] 2 3 4 5 6 TYPE MMWWWW DET P NNNN 2.440 838 GHZ	Auto Tun Center Fre 2.441500000 GH
Aglient Spectrum Analyze R R RF Center Freq 2.44 Ref Offs	50 Ω AC 41500000 GHz PNO: Widd IFGain:Low set 2.96 dB	SENSE:INT	IS 2441 MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	04:05:20 PM Jan 24, 2025 TRACE [] 2 3 4 5 6 TYPE MMWWWW DET P NNNN 2.440 838 GHZ	Auto Tun Center Fre
Agilent Spectrum Analyze R R RF Center Freq 2.44 Ref Offs	50 Ω AC 41500000 GHz PNO: Widd IFGain:Low set 2.96 dB	SENSE:INT	IS 2441 MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	04:05:20 PM Jan 24, 2025 TRACE [] 2 3 4 5 6 TYPE MMWWWW DET P NNNN 2.440 838 GHZ	Auto Tun Center Fre 2.441500000 GH Start Fre 2.440500000 GH
Ref Offs 10 dB/div Ref Off	50 Ω AC 41500000 GHz PNO: Widd IFGain:Low set 2.96 dB	SENSE:INT	IS 2441 MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	04:05:20 PM Jan 24, 2025 TRACE [] 2 3 4 5 6 TYPE MMWWWW DET P NNNN 2.440 838 GHZ	Auto Tun Center Fre 2.44150000 GH Start Fre
Ref Offs 0 dB/div Ref Offs 0 dB/div Ref Offs 0 dB/div Ref 20 0 dB/div Ref 20 0 dB/div Ref 20 0 dB/div Ref 00 0 dB/div Ref 20 0 dB/div Ref 00 0 dB/div Ref 20	50.Ω AC 11500000 GHz PNO: Wid IFGain:Lov set 2.96 dB .00 dBm	SENSE:INT	IS 2441 MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	04:05:20 PM Jan 24, 2025 TRACE TRACE TYPE MMMMMMM DET PNNNN 2.440 838 GHz 1.565 dBm	Auto Tun Center Fre 2.441500000 GH Start Fre 2.440500000 GH Stop Fre
c sg glient Spectrum Analyze d RL RF Center Freq 2.44 Ref Offs Center Freq 2.44 Ref Offs Ref 20 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0	50 Ω AC 11500000 GHz PNO: Wid IF Gain:Lov set 2.96 dB .00 dBm 1 1 50 dBm 50	BW 100 kHz	IS 2441MHz Ant1 Augnauro Avg Type: Log-Pwr Avg Hold>100/100 Mkr1	04:05:20 PM Jan 24, 2025 TRACE [] 23 4 5 6 TYPE MAXWWWW DET P NNNN 2.440 838 GHz 1.565 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Auto Tun Center Fre 2.441500000 GH Start Fre 2.440500000 GH Stop Fre
Ref Offs 10 dB/div Ref Offs 10 dB/div Ref 20 -9	50.2 AC 11500000 GHz PNO: Wid IF Gain:Lov set 2.96 dB .00 dBm	BW 100 kHz	IS 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	04:05:20 PM Jan 24, 2025 ITRACE [1:3:4:5:6 TYPE MWWWWWWW 2.440 838 GHz 1.565 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0	Auto Tun Center Fre 2.441500000 GH Start Fre 2.440500000 GH Stop Fre 2.442500000 GH CF Stej 200.000 kH Auto Ma
Ref Offs 10 dB/div Ref Offs 10 dB/div Ref 20 -9	50.2 AC 11500000 GHz PNO: Wide IFGain:Lov set 2.96 dB .00 dBm 1 1 50 dBm 1 1 50 dBm 1 50 dBm 50	/BW 100 kHz	IS 2441MHz Ant1 Augnauro Avg Type: Log-Pwr Avg Hold>100/100 Mkr1	04:05:20 PM Jan 24, 2025 TRACE [] 23 4 5 6 TYPE MAXWWWW DET P NNNN 2.440 838 GHz 1.565 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Auto Tun Center Fre 2.441500000 GH Start Fre 2.440500000 GH Stop Fre 2.442500000 GH
Ref Offs 10 dB/div Ref Offs 10 dB/div Ref 20 -9	50.2 AC 11500000 GHz PNO: Wide IFGain:Lov set 2.96 dB .00 dBm 1 1 50 dBm 1 1 50 dBm 1 50 dBm 50	/BW 100 kHz	IS 2441MHz Ant1 Augnauro Avg Type: Log-Pwr Avg Hold>100/100 Mkr1	04:05:20 PM Jan 24, 2025 TRACE [] 23 4 5 6 TYPE MAXWWWW DET P NNNN 2.440 838 GHz 1.565 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Auto Tun Center Fre 2.441500000 GH Start Fre 2.440500000 GH Stop Fre 2.442500000 GH CF Stej 200.000 KH Auto Freq Offse
Ref Offs 10 dB/div Ref Offs 10 dB/div Ref 20 -9	50.2 AC 11500000 GHz PNO: Wide IFGain:Lov set 2.96 dB .00 dBm 1 1 50 dBm 1 1 50 dBm 1 50 dBm 50	/BW 100 kHz	IS 2441MHz Ant1 Augnauro Avg Type: Log-Pwr Avg Hold>100/100 Mkr1	04:05:20 PM Jan 24, 2025 TRACE [] 23 4 5 6 TYPE MAXWWWW DET P NNNN 2.440 838 GHz 1.565 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Auto Tun Center Fre 2.441500000 GH Start Fre 2.440500000 GH Stop Fre 2.442500000 GH CF Ste 200.000 KH Auto Freq Offse
Ref Offs 0 dB/div Ref Offs 0 dB/div Ref 20 0 dB/div Ref 20 </td <td>50.2 AC 11500000 GHz PNO: Wide IFGain:Lov set 2.96 dB .00 dBm 1 1 50 dBm 1 1 50 dBm 1 50 dBm 50 dBm 50</td> <td>/BW 100 kHz</td> <td>IS 2441MHz Ant1 Augnauro Avg Type: Log-Pwr Avg Hold>100/100 Mkr1</td> <td>04:05:20 PM Jan 24, 2025 TRACE [] 23 4 5 6 TYPE MAXWWWW DET P NNNN 2.440 838 GHz 1.565 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>Auto Tun Center Fre 2.441500000 GH Start Fre 2.440500000 GH Stop Fre 2.442500000 GH CF Stej 200.000 KH Auto Freq Offse</td>	50.2 AC 11500000 GHz PNO: Wide IFGain:Lov set 2.96 dB .00 dBm 1 1 50 dBm 1 1 50 dBm 1 50 dBm 50	/BW 100 kHz	IS 2441MHz Ant1 Augnauro Avg Type: Log-Pwr Avg Hold>100/100 Mkr1	04:05:20 PM Jan 24, 2025 TRACE [] 23 4 5 6 TYPE MAXWWWW DET P NNNN 2.440 838 GHz 1.565 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Auto Tun Center Fre 2.441500000 GH Start Fre 2.440500000 GH Stop Fre 2.442500000 GH CF Stej 200.000 KH Auto Freq Offse

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enter Freq 2.47	PNO: Wide (SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	04:07:51 PM Jan 24, 2025 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N	Frequency
dB/div Ref 20.	IFGain:Low et 2.98 dB 00 dBm	#Atten: 30 dB	Mkr1	2.478 838 GHz 0.912 dBm	Auto Tun
0.0 0.00 0.00	1 mmm	Ann	2 Martin	W	Center Fre 2.479500000 G⊢
					Start Fre 2.478500000 G⊦
0.0					Stop Fre 2.480500000 G⊦
enter 2.479500 G Res BW 30 kHz	#VB		Sweep 2.	Span 2.000 MHz 133 ms (1001 pts) FUNCTION VALUE	CF Ste 200.000 kH <u>Auto</u> Ma
1 N 1 f 2 N 1 f 3 4 5 6 7 8 9	2.478 838 GHz 2.479 842 GHz	0.912 dBm 0.835 dBm			Freq Offse 0 ⊦

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10. Number of Hopping Channels 10.1 Regulation

According to §15.247(a)(1)(iii), 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. According to §15.247(b)(1), 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.

10.2 Limits of Number of Hopping Channels

The frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

10.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = the frequency band of operation; RBW=100 kHz, VBW=300 kHz; Sweep = auto; Detector function = peak; Trace = max hold

3. Record the number of hopping channels.

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10.4Test Result Type of Modulation:

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
	1-DH5			15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
	3-DH5			15	Pass

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		Test G	napiis		
		Hopping No. NV	NT 1-DH5 Ant1		
	50 Ω AC	SENSE:INT		03:41:04 PM Jan 24, 2025	Fraguener
Center Freq 2.44	1750000 GHz PNO: Wide G 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 N N N N N	Frequency
Ref Offse	et 2.92 dB	sincen ov de	Mkr1 2.4	02 087 5 GHz	Auto Tune
-og	00 dBm			5.180 dBm	
					Center Fred 2.441750000 GH:
20.0					Start Fred 2.40000000 GHz
50.0 60.0					Stop Fred 2.483500000 GH:
tart 2.40000 GHz Res BW 100 kHz		V 300 kHz		top 2.48350 GHz 00 ms (1001 pts) FUNCTION VALUE	CF Step 8.350000 MH Auto Mar
1 N 1 f 2 N 1 f 3 - - - 4 - - - 5 - - - 6 - - - 7 - - - 8 - - -	2.402 087 5 GHz 2.480 160 0 GHz	5.180 dBm 4.756 dBm		i i i i i i i i i i i i i i i i i i i	Freq Offset 0 Hz
10 11 :				×	
11 SG gilent Spectrum Analyzer RL RF	- Swept SA 50 Ω AC	Hopping No. NV	ALIGNAUTO	03:51:46 PM Jan 24, 2025	Frequency
II gilent Spectrum Analyzer RL RF center Freq 2.44 Ref Offse	- Swept SA 50 Q AC 1750000 GHz PNO: Wide G IFGain:Low et 2.92 dB	SENSE:INT	NT 2-DH5 Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid>100/100	03:51:46 PM Jan 24, 2025 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N 01 503 0 GHz	Frequency Auto Tune
silent Spectrum Analyzer RL RF enter Freq 2.44	- Swept SA 50 Ω AC 1750000 GHz PNO: Wide G IFGain:Low	SENSE:INT	NT 2-DH5 Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid>100/100	03:51:46 PM Jan 24, 2025 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N	Auto Tuno Center Free
11	- Swept SA 50 Q AC 1750000 GHz PNO: Wide G IFGain:Low et 2.92 dB	SENSE:INT	NT 2-DH5 Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid>100/100	03:51:46 PM Jan 24, 2025 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N 01 503 0 GHz	Auto Tune Center Free 2.441750000 GH: Start Free
11 sG gilent Spectrum Analyzer RL RF center Freq 2.44 Ref Offse 0 dB/div Ref 20. 0 dB/div Ref 2	- Swept SA 50 Q AC 1750000 GHz PNO: Wide G IFGain:Low et 2.92 dB	SENSE:INT	NT 2-DH5 Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid>100/100	03:51:46 PM Jan 24, 2025 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N 01 503 0 GHz	Auto Tune Center Free 2.441750000 GH; Start Free 2.400000000 GH; Stop Free
RI Ref Ref Ref O B/div Ref 20.0 0 0 0	- Swept SA 50 Ω AC 1750000 GHz PN0: Wide G IFGain:Low at 2.92 dB 00 dBm 4000000000000000000000000000000000000	SENSE:INT	NT 2-DH5 Ant1	03:51:46 PM Jan 24, 2025 TRACE [1 2 3 4 5 6 TVEF 2 3 4 5 6 TVEF N N N N 01 503 0 GHz -1.605 dBm -1.605 dBm -1.605 dBm -1.605 dBm -1.605 dBm -1.605 dBm -1.605 dBm -1.605 dBm -1.605 dBm	Auto Tune Center Free 2.441750000 GH: 2.400000000 GH: 2.403500000 GH: 2.483500000 GH: 2.48350000 GH: 2.48350000 GH:
11	- Swept SA 50 Q AC 1750000 GHz PN0: Wide C IFGain:Low et 2.92 dB 00 dBm	SENSE:INT	NT 2-DH5 Ant1	03:51:46 PM Jan 24, 2025 TRACE 1 2 3 4 5 6 TYPE IN NN N 01 503 0 GHz -1.605 dBm -1.605 dBm -1.605 dBm -1.605 dBm -1.605 dBm -1.605 dBm	Auto Tuna Center Free 2.441750000 GH: 2.400000000 GH: 2.483500000 GH: 2.483500000 GH: 2.48350000 MH: Auto Mar Freq Offse
11	- Swept SA 50 Q AC PNO: Wide PNO: Wide O IFGain:Low # at 2.92 dB 00 dBm 444444444444444444444444444444444444	SENSE:INT Trig: Free Run #Atten: 30 dB	NT 2-DH5 Ant1	03:51:46 PM Jan 24, 2025 TRACE [1 2 3 4 5 6 TVEF 2 3 4 5 6 TVEF N N N N 01 503 0 GHz -1.605 dBm -1.605 dBm -1.605 dBm -1.605 dBm -1.605 dBm -1.605 dBm -1.605 dBm -1.605 dBm -1.605 dBm	Auto Tune Center Frec 2.441750000 GHz 2.400000000 GHz 2.400000000 GHz 2.483500000 GHz 2.48350000 GHz 8.350000 MHz

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Report No.: TW2501163-05E

Date: 2025-02-09

RL RF enter Freq 2.4	50 Ω AC 41750000 GHz PNO: Wid IFGain:L0		ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	04:02:25 PM Jan 24, 2025 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N N	Frequency
0 dB/div Ref 2	fset 2.92 dB 0.00 dBm		Mkr1 2	.401 837 0 GHz 2.877 dBm	Auto Tu
	within the states of the	all a she a	where we we are a second of the second of th	hadabh hang	Center Fr 2.441750000 G
					Start Fr 2.400000000 G
io.o /				h.	Stop Fr 2.483500000 G
tart 2.40000 GH Res BW 100 kH		VBW 300 kHz	Sweep 8	Stop 2.48350 GHz .000 ms (1001 pts)	CF St 8.350000 M Auto M
1 N 1 f 2 N 1 f 3 4 5 6 7 8	2.401 837 0 GHz 2.480 076 5 GHz	2.877 dBm			Freq Off

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11. Time of Occupancy (Dwell Time)

11.1 Regulation

According to §15.247(a)(1)(iii), 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.

11.2 Limits of Carrier Frequency Separation

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

11.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW

RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold

3. Measure the dwell time using the marker-delta function.

4. Repeat above procedures until all frequencies measured were complete.

5. Repeat this test for different modes of operation (e.g., data rate, modulation format, etc.), if applicable.

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11.4 Test Result

Condition	Mode	Frequency	Antenna	Pulse Time	Total Dwell	Burst	Period Time	Limit	Verdict
		(MHz)		(ms)	Time (ms)	Count	(ms)	(ms)	
		2402		0.418	132.924	318	31600	400	Pass
	1-DH5	2441		0.417	132.189	317	31600	400	Pass
		2480	-	0.418	132.924	318	31600	400	Pass
		2402	-	0.309	98.262	318	31600	400	Pass
NVNT	2-DH5	2441	Ant1	0.307	97.319	317	31600	400	Pass
		2480	-	0.309	97.026	314	31600	400	Pass
		2402	-	0.258	82.302	319	31600	400	Pass
	3-DH5	2441	1	0.257	81.983	319	31600	400	Pass
		2480		0.258	82.044	318	31600	400	Pass

Actual = Reading × (Hopping rate / Number of channels) × Test period, Test period = 0.4 [seconds / channel] × 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625μ s with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

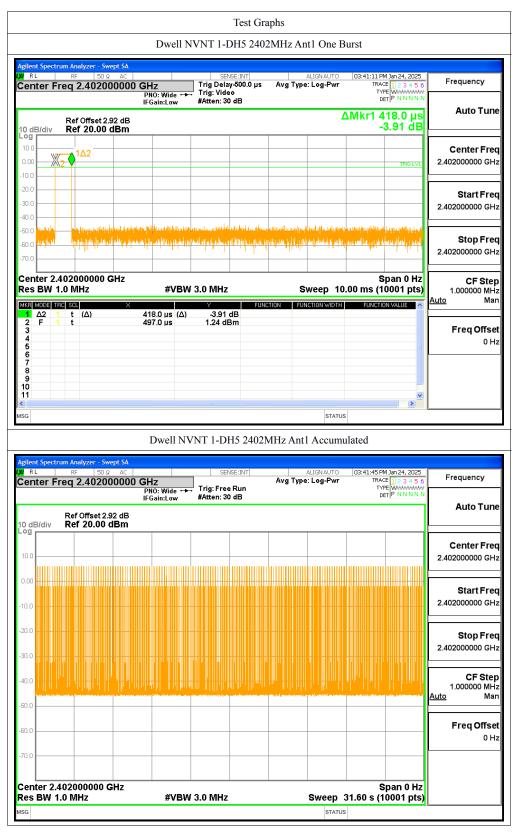
A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

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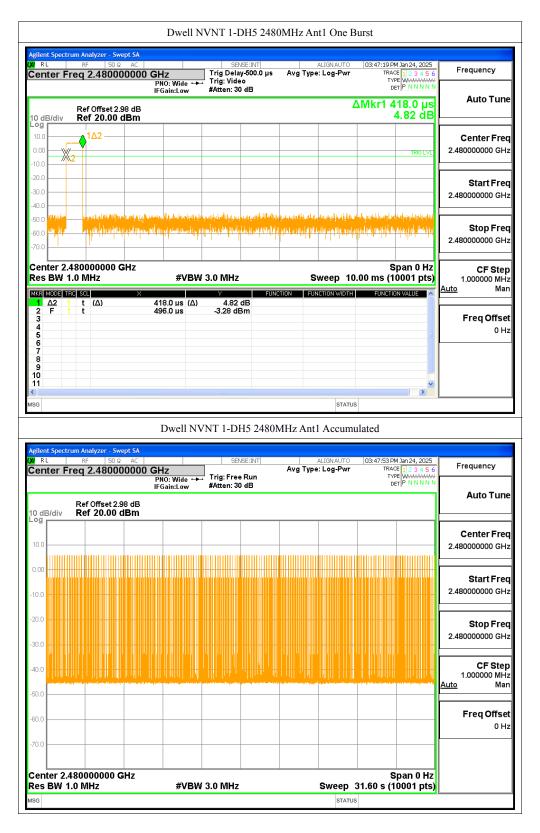




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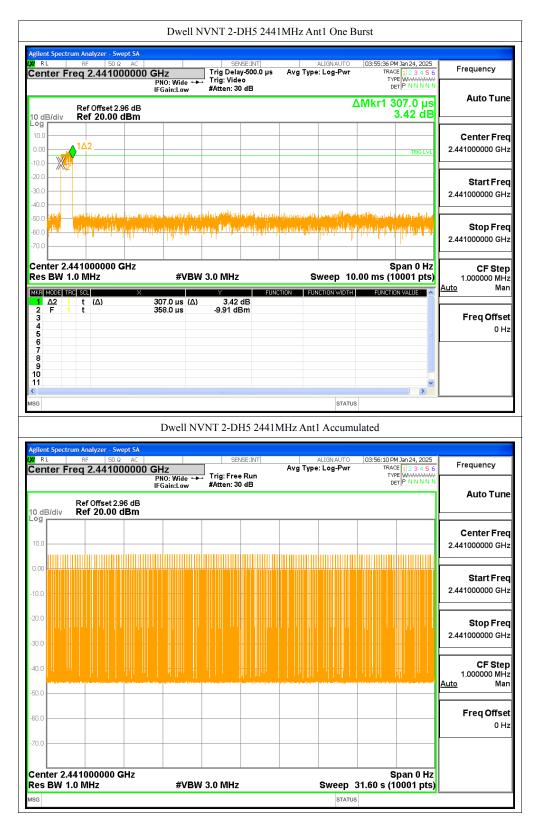
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i <mark>lent Spect</mark> R L	trum Analyzer - Swept SA RF 50 Ω AC		SENSE:INT	ALIGNAUTO	03:51:52 PM Jan 24, 2025	
	Freq 2.40200000	0 GHz PNO: Wide ↔	Trig Delay-500.0 μ Trig: Video		TRACE 1 2 3 4 5 6	Frequency
) dB/div	Ref Offset 2.92 dB Ref 20.00 dBm	IFGain:Low	#Atten: 30 dB		ΔMkr1 309.0 μs 1.99 dB	Auto Tun
	1Δ2				TRIG LVL	Center Fre 2.402000000 G⊦
).0).0).0						Start Fre 2.402000000 G⊦
0.0 0.0 1.0 1.0 1.0				llevel and long and the state of a particular to a state of a particular state of a part		Stop Fre 2.402000000 G⊦
enter 2	2.402000000 GHz 1.0 MHz	#VBW	/ 3.0 MHz	Sweep 10	Span 0 Hz .00 ms (10001 pts)	CF Ste 1.000000 M⊦
R MODE 1		200.0		JNCTION FUNCTION WIDTH		<u>Auto</u> Ma
1 Δ2 2 F 3 4	1 t (Δ) 1 t	309.0 μs (Δ) 497.0 μs	1.99 dB -1.49 dBm			Freq Offse 0 ⊢
4 5 6 7 8 9						
0						
					v	
G				STATUS	\$	
		Dwell N	VNT 2-DH5 240	status 2MHz Ant1 Accum	3	
a lent Spect	trum Analyzer - Swept SA	Dwell N		2MHz Ant1 Accum	lated	
lent Spect	trum Analyzer - Swept SA RF 50 Ω AC Freq 2.40200000	0 GHz	SENSE:INT		03:52:26 PM Jan 24, 2025 TRACE 12:23 4 5 6 TYPE	Frequency
a lent Spect R L	RF 50 Ω AC Freq 2.40200000			2MHz Ant1 Accum	lated	
ent Spect RL enter F	RF 50 Ω AC	0 GHz PNO: Wide ↔	SENSE:INT	2MHz Ant1 Accum	03:52:26 PM Jan 24, 2025 TRACE 12:23 4 5 6 TYPE	
ent Spect RL enter F	RF 50 Ω AC Freq 2.402000000	0 GHz PNO: Wide ↔	SENSE:INT	2MHz Ant1 Accum	03:52:26 PM Jan 24, 2025 TRACE 12:23 4 5 6 TYPE	Auto Tun Center Fre
a RL ent Speci RL enter F	RF 50 Ω AC Freq 2.402000000	0 GHz PNO: Wide ↔	SENSE:INT	2MHz Ant1 Accum	03:52:26 PM Jan 24, 2025 TRACE 12:23 4 5 6 TYPE	Auto Tun Center Fre 2.40200000 GF Start Fre
a lent Spect RL anter F 0.0 0.0	RF 50 Ω AC Freq 2.402000000	0 GHz PNO: Wide ↔	SENSE:INT	2MHz Ant1 Accum	03:52:26 PM Jan 24, 2025 TRACE 12:23 4 5 6 TYPE	Auto Tun Center Fre 2.402000000 GH Start Fre 2.402000000 GH Stop Fre
dB/div g 0.0 0.0 0.0	RF 50 Ω AC Freq 2.402000000	0 GHz PNO: Wide ↔	SENSE:INT	2MHz Ant1 Accum	03:52:26 PM Jan 24, 2025 TRACE 12:23 4 5 6 TYPE	Auto Tun Center Fre 2.402000000 GF 2.402000000 GF 2.402000000 GF 2.402000000 GF CF Ste 1.000000 MF
G ilent Spect R L	RF 50 Ω AC Freq 2.402000000	0 GHz PNO: Wide ↔	SENSE:INT	2MHz Ant1 Accum	03:52:26 PM Jan 24, 2025 TRACE 12:23 4 5 6 TYPE	Auto Tun Center Fre 2.402000000 GF 2.402000000 GF 2.402000000 GF 2.402000000 GF CF Ste 1.000000 MF Auto Ma
ilent Spect RL enter F 30 0.0 0.0 0.0 0.0 0.0	RF 50 Ω AC Freq 2.402000000	0 GHz PNO: Wide ↔	SENSE:INT	2MHz Ant1 Accum	03:52:26 PM Jan 24, 2025 TRACE 12:23 4 5 6 TYPE	Auto Tun Center Fre 2.402000000 GF 2.402000000 GF 2.402000000 GF 2.402000000 GF CF Ste 1.000000 MF
Ient Spect RL enter F 000 0.0	RF 50 Ω AC Freq 2.402000000	D GHz PNO: Wide → IFGain:Low	SENSE:INT	2MHz Antl Accum	03:52:26 PM Jan 24, 2025 TRACE 12:23 4 5 6 TYPE	Auto Tun Center Fre 2.402000000 GH 2.402000000 GH 2.402000000 GH 2.402000000 GH CF Ste 1.000000 MH Auto Ma

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	nalyzer - Swept SA			-1				
enter Freq	F 50 Ω AC 2.480000000	GHz PNO: Wide +++	SENSE:INT Trig Delay-500. Trig: Video		ALIGNAUTO E: Log-Pwr	TYPE	123456 Watatatata	Frequency
	f Offset 2.98 dB ef 20.00 dBm	IFGain:Low	#Atten: 30 dB		Δ	Mkr1 3	09.0 µs .37 dB	Auto Tun
10.0 10.0 10.0 10.0	Δ2						TRIG LVL	Center Fre 2.48000000 GH
20.0								Start Fre 2.480000000 GH
50.0 Wardin	na na indina da anti anti di anti <mark>Anga da anga pandaga da anti anga da anga sa ang</mark>							Stop Fre 2.480000000 GH
Center 2.4800 Res BW 1.0 N	AHz	#VBW	3.0 MHz		weep 10.			CF Ste 1.000000 MH <u>Auto</u> Ma
AKR MODE TRC SC 1 Δ2 1 t 2 F 1 t 3 - - t 4 - - - 5 - - - 6 - - - 7 - - - 8 - - - 9 - - - -	L × (Δ)	309.0 μs (Δ) 496.0 μs	5.37 dB -3.82 dBm	FUNCTION FU	NCTION WIDTH	FUNCTION		Freq Offse
10								
11							~	
11					STATUS		<u>▼</u>	
5G		Dwell NV	/NT 2-DH5 2	480MHz Ant		lated		
11 SG gilent Spectrum An RL RI	F 50 Ω AC		NT 2-DH5 2		1 Accumu	03:58:24 PM	Jan 24, 2025	Frequency
sg gjient Spectrum An RL R					1 Accumu	03:58:24 PM TRACE TYPE		
gilent Spectrum A RL RL RI Center Freq Re Re 0 dB/div Re	F 50 Ω AC	GHz PNO: Wide ↔	SENSE:INT		1 Accumu	03:58:24 PM TRACE TYPE	Jan 24, 2025	
II glient Spectrum A RL R enter Freq 0 dB/div Re	F 50 Ω AC 2.480000000 f Offset 2.98 dB	GHz PNO: Wide ↔	SENSE:INT		1 Accumu	03:58:24 PM TRACE TYPE	Jan 24, 2025	Frequency Auto Tun Center Fre 2.48000000 GH
gilent Spectrum A RL R center Freq 0 dB/div Re 9 10.0	F 50 Ω AC 2.480000000 f Offset 2.98 dB	GHz PNO: Wide ↔	SENSE:INT		1 Accumu	03:58:24 PM TRACE TYPE	Jan 24, 2025	Auto Tun Center Fre 2.48000000 GH Start Fre
11 signed Spectrum AA RL R center Freq 0 dB/div Re 0 dB/div Re 0 dB/div Re 0 dB/div Re 0 dB/div Re 0 dB/div Re	F 50 Ω AC 2.480000000 f Offset 2.98 dB	GHz PNO: Wide ↔	SENSE:INT		1 Accumu	03:58:24 PM TRACE TYPE	Jan 24, 2025	Auto Tun Center Fre 2.48000000 GH Start Fre 2.48000000 GH Stop Fre
11 signed Spectrum Ar RL R enter Freq 0 dB/div Re 0 dV Re	F 50 Ω AC 2.480000000 f Offset 2.98 dB	GHz PNO: Wide ↔	SENSE:INT		1 Accumu	03:58:24 PM TRACE TYPE	Jan 24, 2025 □ 2 3 4 5 6 W 34 5 6	Auto Tun Center Fre 2.48000000 GH Start Fre 2.48000000 GH Stop Fre 2.48000000 GH
11 signed Spectrum Ar RL R Center Freq 0 dB/div Re 0 dV Re 0	F 50 Ω AC 2.480000000 f Offset 2.98 dB	GHz PNO: Wide ↔	SENSE:INT		1 Accumu	03:58:24 PM TRACE TYPE	Jan 24, 2025 □ 2 3 4 5 6 W 34 5 6	Auto Tun Center Fre 2.48000000 GH Start Fre 2.48000000 GH 2.48000000 GH 2.48000000 GH CF Ste 1.00000 MH Auto Ma
Center Freq Re	F 50 Ω AC 2.480000000 f Offset 2.98 dB	GHz PNO: Wide ↔	SENSE:INT		1 Accumu	03:58:24 PM TRACE TYPE	Jan 24, 2025 □ 2 3 4 5 6 W 34 5 6	Auto Tun Center Fre 2.480000000 GH Start Fre 2.480000000 GH Stop Fre 2.480000000 GH CF Stej 1.000000 MH Auto Ma

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ment apec	ctrum Analyzer - Swept S	A				
RL	RF 50 Ω AC	00 GHz	SENSE:INT Trig Delay-500.0 µ , Trig: Video	ALIGNAUTO 5 Avg Type: Log-Pwr	04:02:31 PM Jan 24, 2025 TRACE 1 2 3 4 5 6 TYPE WWWWWW	Frequency
0 dB/div	Ref Offset 2.92 d Ref 20.00 dBn		#Atten: 30 dB		<u>له</u> تر <u>PNNNNN</u> Mkr1 258.0 µs -1.26 dB	Auto Tun
og 10.0 0.00	1Δ2				TRIG LVL	Center Fre 2.402000000 GH
20.0						Start Fre 2.402000000 G⊢
50.0 444 50.0 4444 70.0				en de la company fan en la company de la company La company de la company de la company de la company La company de la company de la company de la company de la		Stop Fre 2.402000000 GH
	2.402000000 GHz 1.0 MHz		V 3.0 MHz	Sweep 10	Span 0 Hz .00 ms (10001 pts)	CF Ste 1.000000 M⊢
kr mode 1 Δ2		×		JNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Ma
2 F 3 4 5	1 t (Δ) 1 t	258.0 μs (Δ) 354.0 μs	-1.26 dB -9.17 dBm		E.	Freq Offse 0 H
6 7 8 9 10						
					<u> </u>	
				074710	>	
SG				STATUS		
ŝG		Dwell N	VNT 3-DH5 240	status 2MHz Ant1 Accumu		
ilent Spec	ctrum Analyzer - Swept S	A		2MHz Ant1 Accumu	ilated	
<mark>jilent Spec</mark> R L	ctrum Analyzer - Swept S RF 50 Ω AC Freq 2.4020000	A 00 GHz	SENSE:INT		04:03:05 PM Jan 24, 2025 TRACE 12:23 4 5 6 TYPE	Frequency
<mark>jilent Spec</mark> R L	RF 50 Ω AC Freq 2.4020000	A OO GHz PNO: Wide ↔ IFGain:Low	SENSE:INT	2MHz Ant1 Accumu	04:03:05 PM Jan 24, 2025	
RL RL enter l	Ref Offset 2.92 df	A 00 GHz PN0: Wide → IFGain:Low B	SENSE:INT	2MHz Ant1 Accumu	04:03:05 PM Jan 24, 2025 TRACE 12:23 4 5 6 TYPE	
ilent Spec RL enter I) dB/div	Ref Offset 2.92 df	A 00 GHz PN0: Wide → IFGain:Low B	SENSE:INT	2MHz Ant1 Accumu	04:03:05 PM Jan 24, 2025 TRACE 12:23 4 5 6 TYPE	Auto Tun Center Fre
ilent Spec RL enter I) dB/div 29	Ref Offset 2.92 df	A 00 GHz PN0: Wide → IFGain:Low B	SENSE:INT	2MHz Ant1 Accumu	04:03:05 PM Jan 24, 2025 TRACE 12:23 4 5 6 TYPE	Auto Tun Center Fre 2.40200000 GH Start Fre
olon olon olon olon olon olon olon olon	Ref Offset 2.92 df	A 00 GHz PN0: Wide → IFGain:Low B	SENSE:INT	2MHz Ant1 Accumu	04:03:05 PM Jan 24, 2025 TRACE 12:23 4 5 6 TYPE	Auto Tun Center Fre 2.40200000 GH Start Fre 2.40200000 GH Stop Fre
Silent Spec RL enter I 0 dB/div 0 g 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Ref Offset 2.92 df	A 00 GHz PN0: Wide → IFGain:Low B	SENSE:INT	2MHz Ant1 Accumu	04:03:05 PM Jan 24, 2025 TRACE 12:23 4 5 6 TYPE	Auto Tun Center Fre 2.402000000 GH 2.402000000 GH 2.402000000 GH 2.402000000 GH CF Ste 1.00000 MH
RL	Ref Offset 2.92 df	A 00 GHz PN0: Wide → IFGain:Low B	SENSE:INT	2MHz Ant1 Accumu	04:03:05 PM Jan 24, 2025 TRACE 12:23 4 5 6 TYPE	Auto Tun Center Fre 2.402000000 GH 2.402000000 GH 2.402000000 GH 2.402000000 GH CF Ste 1.00000 MH Auto Ma
cilent Spec RL center I 0 dB/div 0 0 <td>Ref Offset 2.92 df</td> <td>A 00 GHz PN0: Wide → IFGain:Low B</td> <td>SENSE:INT</td> <td>2MHz Ant1 Accumu</td> <td>04:03:05 PM Jan 24, 2025 TRACE 12:23 4 5 6 TYPE</td> <td>Auto Tun Center Fre 2.402000000 GH Start Fre 2.402000000 GH Stop Fre 2.402000000 GH CF Ste 1.000000 MH Auto Ma</td>	Ref Offset 2.92 df	A 00 GHz PN0: Wide → IFGain:Low B	SENSE:INT	2MHz Ant1 Accumu	04:03:05 PM Jan 24, 2025 TRACE 12:23 4 5 6 TYPE	Auto Tun Center Fre 2.402000000 GH Start Fre 2.402000000 GH Stop Fre 2.402000000 GH CF Ste 1.000000 MH Auto Ma
21 enter 1 RL 20 dB/div 20 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Ref Offset 2.92 df	A PNO: Wide -> IFGain:Low B n	SENSE:INT	2MHz Antl Accumu Aug Type: Log-Pwr	04:03:05 PM Jan 24, 2025 TRACE 12:23 4 5 6 TYPE	Auto Tun Center Fre 2.402000000 GH 2.402000000 GH 2.402000000 GH 2.402000000 GH CF Ste 1.00000 MH Auto Ma

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<mark>gilent Spectrum A</mark> RL R			CENCE, MIT	0.100 M (20)	04/06/01 DM 3-+ 04, 0005	1
	EF 50 Ω AC 2.441000000	PNO: Wide 🔸	SENSE:INT Trig Delay-500.0 µs Trig: Video	ALIGNAUTO Avg Type: Log-Pwr	04:06:21 PM Jan 24, 2025 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N N	Frequency
0 dB/div Re	ef Offset 2.96 dB ef 20.00 dBm	IFGain:Low	#Atten: 30 dB		∆Mkr1 257.0 µs -2.83 dB	Auto Tun
og 10.0 0.00 1∆	.2				TRIG LVE	Center Fre 2.441000000 GH
						Start Fre 2.441000000 GH
50.0 <mark>44 h - 14.44</mark>				na na ta		Stop Fre 2.441000000 GH
enter 2.441 es BW 1.0 N	000000 GHz MHz	#VBW	3.0 MHz	Sweep 10	Span 0 Hz .00 ms (10001 pts)	CF Ste 1.000000 MH
KR MODE TRC SC $1 \Delta 2 1 t$		257.0 μs (Δ)	Y FU -2.83 dB	NCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Ma
2 F 1 t 3 4 5 6 7		354.0 µs	-4.82 dBm			Freq Offse 0 H
9						
1					v	
				STATUS	×	
10 11 56		Devell NV			3	
		Dwell NV	/NT 3-DH5 2441	status	3	
11 3G gilent Spectrum A	nalyzer - Swept SA 8F 50 Ω AC	Dwell NV	/NT 3-DH5 2441	IMHz Ant I Accumu	1lated	Erequency
gilent Spectrum A		GHz PNO: Wide	SENSE:INT	IMHz Ant1 Accum	04:06:55 PM Jan 24, 2025 TRACE [1:2:3:4:5:6 TYPE [MANADALAN	Frequency
11 signer Spectrum A RL R Center Freq	RF 50Ω AC	GHz	SENSE:INT	IMHz Ant I Accumu	1lated	Frequency Auto Tun
glient Spectrum A RL R enter Freq Red db/div Re	^{RF} 50 Ω AC 2.441000000	GHz PNO: Wide	SENSE:INT	IMHz Ant I Accumu	04:06:55 PM Jan 24, 2025 TRACE [1:2:3:4:5:6 TYPE [MANADALAN	
1 glent Spectrum A RL R enter Freq 0 dB/div Re	PF 50 Ω AC 2.441000000 of Offset 2.96 dB	GHz PNO: Wide	SENSE:INT	IMHz Ant I Accumu	04:06:55 PM Jan 24, 2025 TRACE [1:2:3:4:5:6 TYPE [MANADALAN	Auto Tun Center Fre
1 gilent Spectrum A RL R enter Freq 0 dB/div Re 9 0.00	PF 50 Ω AC 2.441000000 of Offset 2.96 dB	GHz PNO: Wide	SENSE:INT	IMHz Ant I Accumu	04:06:55 PM Jan 24, 2025 TRACE [1:2:3:4:5:6 TYPE [MANADALAN	Auto Tun Center Fre 2.44100000 GH Start Fre
II RL R enter Freq 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	PF 50 Ω AC 2.441000000 of Offset 2.96 dB	GHz PNO: Wide	SENSE:INT	IMHz Ant I Accumu	04:06:55 PM Jan 24, 2025 TRACE [1:2:3:4:5:6 TYPE [MANADALAN	Auto Tun Center Fre 2.44100000 GH Start Fre 2.44100000 GH Stop Fre
II SG SG RL R enter Freq OdB/div Re OdB/div Re	PF 50 Ω AC 2.441000000 of Offset 2.96 dB	GHz PNO: Wide	SENSE:INT	IMHz Ant I Accumu	04:06:55 PM Jan 24, 2025 TRACE [1:2:3:4:5:6 TYPE [MANADALAN	Auto Tun Center Fre 2.441000000 GH Start Fre 2.441000000 GH Stop Fre 2.441000000 GH CF Ste 1.000000 MH
11	PF 50 Ω AC 2.441000000 of Offset 2.96 dB	GHz PNO: Wide	SENSE:INT	IMHz Ant I Accumu	04:06:55 PM Jan 24, 2025 TRACE [1:2:3:4:5:6 TYPE [MANADALAN	Auto Tun Center Fre 2.441000000 GH Start Fre 2.441000000 GH Stop Fre 2.441000000 GH
gilent Spectrum A RL R Retenter Freq Re	PF 50 Ω AC 2.441000000 of Offset 2.96 dB	GHz PNO: Wide	SENSE:INT	IMHz Ant I Accumu	04:06:55 PM Jan 24, 2025 TRACE [1:2:3:4:5:6 TYPE [MANADALAN	Start Free 2.441000000 GH Start Free 2.441000000 GH Stop Free 2.441000000 GH CF Step 1.000000 MH Auto Mato Freq Offsee

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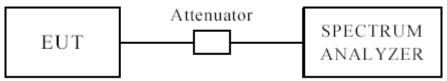
	ctrum Analyzer - Swept SA					
	RF 50 Ω AC Freq 2.480000000) GHz PNO: Wide ↔	SENSE:INT Trig Delay-500.0 µ: → Trig: Video	ALIGN AUTO AVG Type: Log-Pwr	04:08:56 PM Jan 24, 2025 TRACE 1 2 3 4 5 6 TYPE WWWWWW	Frequency
0 dB/div	Ref Offset 2.98 dB Ref 20.00 dBm	IFGain:Low	#Atten: 30 dB	2	^{Der} ^{P NNNNN} Mkr1 258.0 µs -4.43 dB	Auto Tun
.og 10.0 X 0.00 X 10.0	1Δ2				TRIG LVL	Center Fre 2.480000000 GH
20.0 30.0 40.0						Start Fre 2.480000000 GH
50.0 <mark>у фу</mark> 50.0 <mark>у фу</mark>				ring werden aus der eine Bereich und der Bereicher sinige Gestenden geschlangen der eine Bereicher Bereicher Bereicher Bereicher Bereicher Bereicher Bereicher Bereicher Bereicher Bereicher B		Stop Fre 2.480000000 GH
les BW	2.480000000 GHz 1.0 MHz	#VBW	V 3.0 MHz	•	Span 0 Hz .00 ms (10001 pts) Function value	CF Ste 1.000000 MH <u>Auto</u> Ma
1 Δ2 2 F 3 4 5	TRC SCL × 1 t (Δ) 1 t	258.0 μs (Δ) 497.0 μs	-4.43 dB 1.70 dBm	INCTION FUNCTION WIDTH		Freq Offse
4 5 6 7 8 9						
					×	
				STATUS		
SG		Dwell N	VNT 3-DH5 248	status 0MHz Ant1 Accumu		
gilent Spec	trum Analyzer - Swept SA RF 50 Ω AC Freq 2.480000000) GHz	SENSE:INT		lated	Frequency
gilent Spec	RF 50Ω AC		SENSE:INT	OMHz Ant 1 Accumu	ılated	
gilent Spec RL Center I	RF 50Ω AC Freq 2.480000000) GHz PNO: Wide ↔	SENSE:INT	OMHz Ant 1 Accumu	04:09:30 PM Jan 24, 2025 TRACE 12:3:4:5 6 TYPE	
gilent Spec RL center 1 0 dB/div 0 g	Ref Offset 2.98 dB) GHz PNO: Wide ↔	SENSE:INT	OMHz Ant 1 Accumu	04:09:30 PM Jan 24, 2025 TRACE 12:3:4:5 6 TYPE	Auto Tun Center Fre 2.48000000 GH Start Fre
glent Spec RL enter 1 0 dB/div 0 g 10.0 .00 .00 .00	Ref Offset 2.98 dB) GHz PNO: Wide ↔	SENSE:INT	OMHz Ant 1 Accumu	04:09:30 PM Jan 24, 2025 TRACE 12:3:4:5 6 TYPE	Auto Tun Center Fre
gilent Spec RL Center 1 10.0 0.00 10.0 0.00 10.0 0.00 10.0 0.00 10.0 0.00 10.0 0.00 10.0 0.00 10.0 0.00 10.0 0.00 10.0 0 0.00 10.0 0 0.000 0.000 0.000 0.000 0.0000 0.000000	Ref Offset 2.98 dB) GHz PNO: Wide ↔	SENSE:INT	OMHz Ant 1 Accumu	04:09:30 PM Jan 24, 2025 TRACE 12:3:4:5 6 TYPE	Auto Tun Center Fre 2.48000000 GH Start Fre 2.48000000 GH Stop Fre
gilent Spec gilent Spec R L Center 1 0 dB/div 0 dB/	Ref Offset 2.98 dB) GHz PNO: Wide ↔	SENSE:INT	OMHz Ant 1 Accumu	04:09:30 PM Jan 24, 2025 TRACE 12:3:4:5 6 TYPE	Аиto Tun Сепter Fre 2.48000000 GH 2.48000000 GH 2.48000000 GH СГ Stel 1.00000 MH <u>Auto</u> Ma Freq Offse
RL	Ref Offset 2.98 dB) GHz PNO: Wide ↔	SENSE:INT	OMHz Ant 1 Accumu	04:09:30 PM Jan 24, 2025 TRACE 12:3:4:5 6 TYPE	Start Fre 2.48000000 GH Start Fre 2.48000000 GH Stop Fre 2.48000000 GH CF Step 1.000000 MH Auto Ma

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12 Out of Band Measurement

12.1 Test Setup



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

12.2 Limits of Out of Band Emissions Measurement

- 1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

12.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. Peak values with RBW=VBW=1MHz and PK detector.

For bandage test, the spectrum set as follows: RBW=100kHz, VBW=300 kHz. A conducted measurement used

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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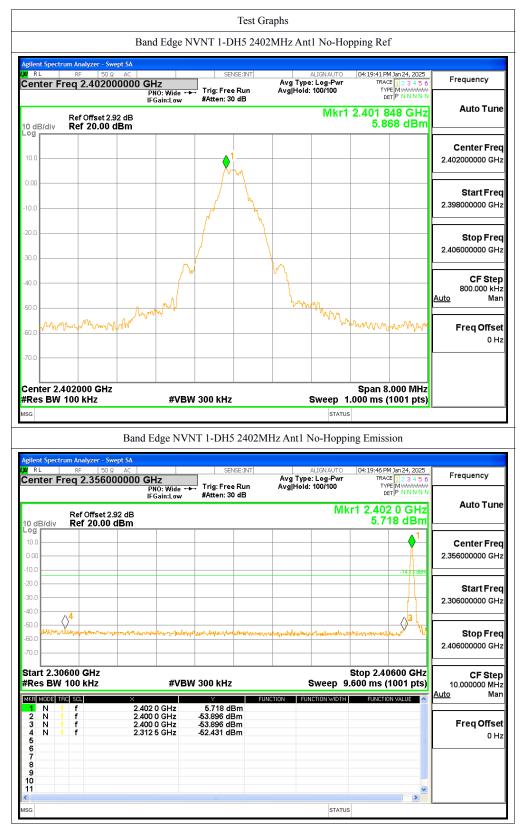


Type of Modulation:

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
	1-DH5	2402 No-Hoppin		No-Hopping	-58.3	-20	Pass
	1-DHD	2480		No-Hopping	-58.5	-20	Pass
		2402	A -= + 4	No-Hopping	-56.99	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-57.79	-20	Pass
	a Duis	2402		No-Hopping	-56.8	-20	Pass
	3-DH5	2480		No-Hopping	-58.94	-20	Pass

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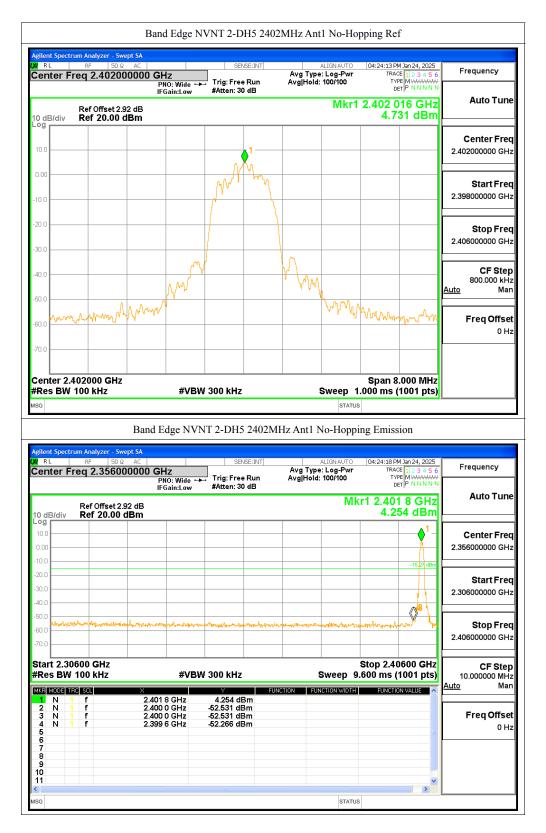
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	er - Swept SA 50 Ω AC 80000000 GHZ PNO: Wi IFGain:L		ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	04:22:36 PM Jan 24, 2025 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N	Frequency
0 dB/div Ref 2	set 2.98 dB 0.00 dBm		Mkr1	2.480 016 GHz 5.265 dBm	Auto Tune
10.0		1			Center Free 2.480000000 GH
10.0					Start Free 2.476000000 GH
20.0					Stop Fred 2.484000000 GH
40.0					CF Step 800.000 kH <u>Auto</u> Mar
50.0	Mandonand	4	how	www.www.wallen	Freq Offse
Center 2.480000 #Res BW 100 kH		VBW 300 kHz	Sweep 1	Span 8.000 MHz .000 ms (1001 pts)	
fRes BW 100 kH	z # Band Edge er - Swept SA 50 Ω AC	EVBW 300 KHz NVNT 1-DH5 2480N	STATUS 1Hz Ant1 No-Hoppi Alignauto	.000 ms (1001 pts) ng Emission	Frequency
Res BW 100 kH	z # Band Edge 50 Ω AC 5 50 Ω AC 5 526000000 GHz PNO: Wi IFGain:L fset 2.98 dB	NVNT 1-DH5 2480N	STATUS IHz Ant1 No-Hoppi Autgnauto Avg Type: Log-Pwr Avg[Hold: 100/100	000 ms (1001 pts) ng Emission 04:22:41 PM Jan 24, 2025 TRACE [1:23 4 5 6 TYPE [MWWWWW DET [P.N.N.N.N r1 2.480 0 GHz	
Res BW 100 kH	z # Band Edge er - Swept SA 50 0 AC 32600000 GHz PNO: Wi IFGain:L	NVNT 1-DH5 2480N	STATUS IHz Ant1 No-Hoppi Autgnauto Avg Type: Log-Pwr Avg[Hold: 100/100	000 ms (1001 pts) ng Emission 04:22:41 PM Jan 24, 2025 TRACE 12:34 5 6 TVPE P.NNNN r1 2.480 0 GHz 4.991 dBm	Frequency Auto Tune Center Free 2.52600000 GH
Res BW 100 kH	z # Band Edge er - Swept SA 50 Ω AC 50 Ω AC FR6in:L fset 2.98 dB 0.00 dBm	NVNT 1-DH5 2480N	STATUS IHz Ant1 No-Hoppi Autgnauto Avg Type: Log-Pwr Avg[Hold: 100/100	000 ms (1001 pts) ng Emission 04:22:41 PM Jan 24, 2025 TRACE [1:23 4 5 6 TYPE [MWWWWW DET [P.N.N.N.N r1 2.480 0 GHz	Auto Tuno Center Fred
Res BW 100 kH sg glient Spectrum Analyz RL RF Center Freq 2.5 0 Age 1 0 1 0.00 1 0.00 1 0.00 1 0.00 2 0.00 2 0.00 2 0.00 2 0.00 2 0.00 2 0.00 2	z # Band Edge er - Swept SA 50 Ω AC 50 Ω AC Freain:L fset 2.98 dB 0.00 dBm	NVNT 1-DH5 2480N	STATUS IHz Ant1 No-Hoppi Autgnauto Avg Type: Log-Pwr Avg[Hold: 100/100	.000 ms (1001 pts) ng Emission 04:22:41 PM Jan 24, 2025 TRACE 12:34 5 6 TYPE MUMANAWA DET P NNNN r1 2.480 0 GHz 4.991 dBm 14.74 dbm14.74 dbm	Auto Tune Center Free 2.52600000 GH Start Free
Res BW 100 kH sg glient Spectrum Analyz RL RF center Freq 2.5 code/div Ref Of 0.06/div 0.00 10.0 0.00	z # Band Edge 50 a AC 50 a AC 526000000 GHz PNO: Wi IFGain:L fset 2.98 dB 0.00 dBm	NVNT 1-DH5 2480N	Altenauto Avg Type: Log-Pwr Avg Hold: 100/100 Mk	.000 ms (1001 pts) ng Emission 04:22:41 PM Jan 24, 2025 TRACE 12:34 5 6 TYPE MWWWWW VEF P NNNN r1 2.480 0 GHz 4.991 dBm	Auto Tune Center Free 2.52600000 GH Start Free 2.47600000 GH Stop Free 2.57600000 GH CF Step 10.00000 MH
#Res BW 100 kH Isg glent Spectrum Analyz R RL RF Center Freq 2.5 Ref Of	z # Band Edge Sec - Swept SA S0 Ω AC S0 Ω AC PN0: Wi PN0: WI	NVNT 1-DH5 2480N	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100 Mk	.000 ms (1001 pts) ng Emission 04:22:41 PM Jan 24, 2025 TRACE 12:34 5 6 TRACE 12:34 5 TRACE 12	Auto Tune Center Free 2.52600000 GH: Start Free 2.47600000 GH: Stop Free 2.57600000 GH: CF Step 10.00000 MH

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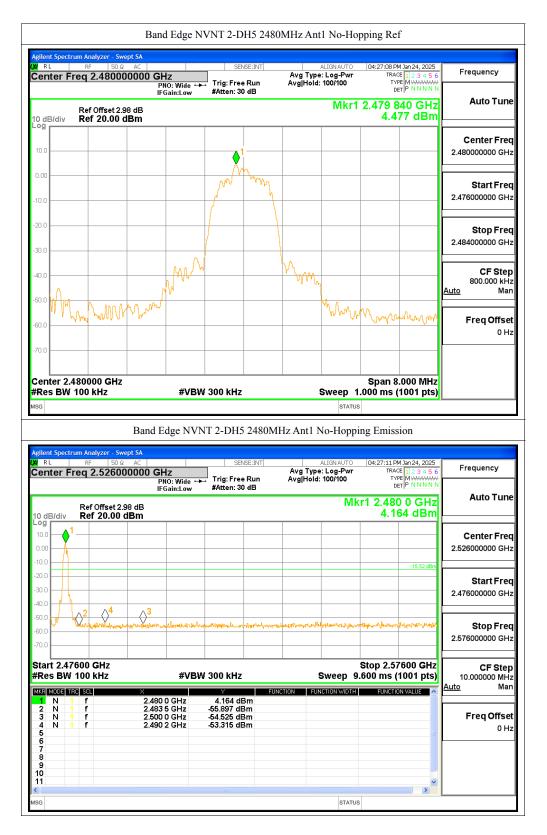




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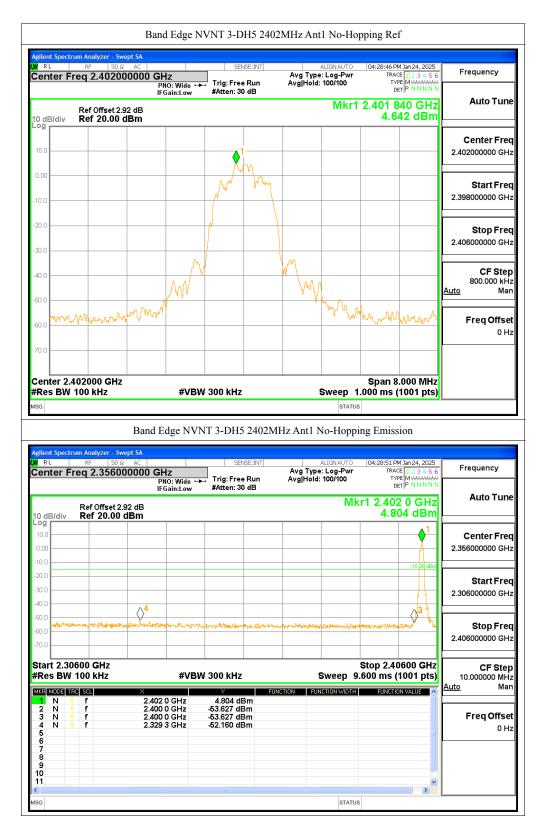




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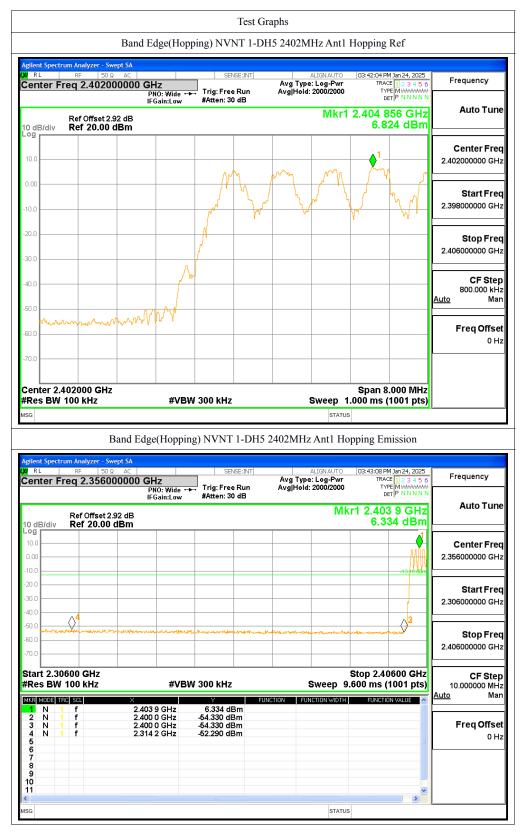
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Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
	1-DH5	2402	2402 Hopping		-59.11	-20	Pass
	1-005	2480		Hopping	-57.95	-20	Pass
		2402	A pt1	Hopping	-57.81	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-55.83	-20	Pass
		2402		Hopping	-57.19	-20	Pass
	3-DH5	2480		Hopping	-57.48	-20	Pass

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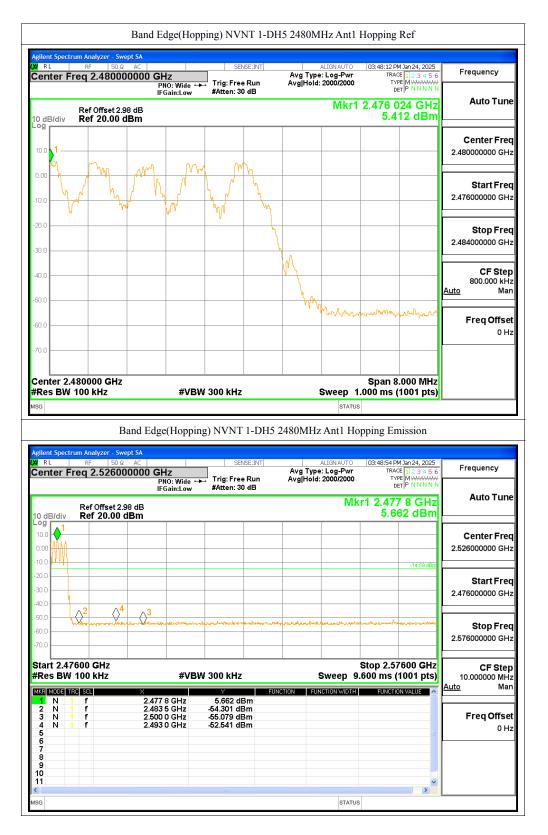




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(IRL	rum Analyzer - Swept SA RF 50 Ω AC Freq 2.40200000	0 GHz	SENSE:INT	ALIGNAUTO	04:03:25 PM Jan 24, 2025 TRACE 1 2 3 4 5 6 TYPE M WWWWW	Frequency
	Ref Offset 2.92 dB	PNO: Wide ↔ IFGain:Low	HAtten: 30 dB	Avg Hold: 2000/2000 Mkr1	2.405 008 GHz	Auto Tun
0 dB/div	Ref 20.00 dBm				5.776 dBm	0
10.0					∮ 1	Center Free 2.402000000 GH
0.00			M M A.	Mar M	MARN	Start Era
10.0			N. 1444		M IN.	Start Fre 2.398000000 GH
20.0						Stop Fre
80.0						2.406000000 GH
40.0		p p				CF Ste
50.0		Mar				800.000 kH <u>Auto</u> Ma
mm	monorm	w				Freq Offse
50.0						он
70.0						
.0.0						
enter 2.4	402000 GHz				Span 8.000 MHz	
enter 2.4 Res BW	402000 GHz 100 kHz	#VB\	₩ 300 kHz	Sweep 1.	Span 8.000 MHz 000 ms (1001 pts)	
Center 2.4	100 kHz			STATUS	.000 ms (1001 pts)	
center 2. Res BW	100 kHz Band I			· · · ·	.000 ms (1001 pts)	
center 2.4 Res BW	100 kHz Band I rum Analyzer - Swept SA RF 50 Ω AC	Edge(Hoppir		STATUS	000 ms (1001 pts) pping Emission 04:04:29 PM Jan 24, 2025	Frequency
center 2.4 Res BW	100 kHz Band I	Edge(Hoppir	ng) NVNT 3-DH:	STATUS	000 ms (1001 pts)	
enter 2.4 Res BW	100 kHz Band J rum Analyzer - Swept SA RF 50 Ω AC ireq 2.356000000	Edge(Hoppir 0 GHz PN0: Wide ↔	ng) NVNT 3-DH:	5 2402MHz Ant1 Ho ALIGNAUTO Avg Type: Log-Pwr Avg[Hold: 2000/2000	000 ms (1001 pts)	
center 2. Res BW ss glent Spectr RL Center F	100 kHz Band 1 rum Analyzer - Swept SA RF 50 Ω AC req 2.356000000	Edge(Hoppir 0 GHz PN0: Wide ↔	ng) NVNT 3-DH:	5 2402MHz Ant1 Ho ALIGNAUTO Avg Type: Log-Pwr Avg[Hold: 2000/2000	000 ms (1001 pts)	Auto Tun
center 2.4 Res BW sG RL center F	100 kHz Band J rum Analyzer - Swept SA RF 50 Ω AC ireq 2.356000000	Edge(Hoppir 0 GHz PN0: Wide ↔	ng) NVNT 3-DH:	5 2402MHz Ant1 Ho ALIGNAUTO Avg Type: Log-Pwr Avg[Hold: 2000/2000	000 ms (1001 pts)	Auto Tun Center Fre
center 2.4 Res BW sG RL center F	100 kHz Band J rum Analyzer - Swept SA RF 50 Ω AC ireq 2.356000000	Edge(Hoppir 0 GHz PN0: Wide ↔	ng) NVNT 3-DH:	5 2402MHz Ant1 Ho ALIGNAUTO Avg Type: Log-Pwr Avg[Hold: 2000/2000	000 ms (1001 pts)	Auto Tun Center Fre 2.356000000 GH
Conter 2.4 Res BW SG Conter F Conter F Conter F Conter F Conter F Conter F Conter Conter Co	100 kHz Band 1 rum Analyzer - Swept SA RF 50 Ω AC req 2.356000000 Ref Offset 2.92 dB Ref 20.00 dBm	Edge(Hoppir 0 GHz PN0: Wide ↔	ng) NVNT 3-DH:	5 2402MHz Ant1 Ho ALIGNAUTO Avg Type: Log-Pwr Avg[Hold: 2000/2000	000 ms (1001 pts) pping Emission 04:04:29 PM Jan 24, 2025 TRACE [1:3:3:4:5:6 TYPE [MWWWWW DET [P.N.N.N.N r1 2.405 0 GHz 6.362 dBm	Auto Tun Center Free 2.356000000 GH Start Free
Center 2.4 Res BW sc center F center F 0 dB/div 0 d 0 d 0 dB/div 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d	100 kHz Band J rum Analyzer - Swept SA RF 50 Ω AC ireq 2.356000000	Edge(Hoppir 0 GHz PN0: Wide ↔	ng) NVNT 3-DH:	5 2402MHz Ant1 Ho ALIGNAUTO Avg Type: Log-Pwr Avg[Hold: 2000/2000	000 ms (1001 pts) pping Emission 04:04:29 PM Jan 24, 2025 TRACE [1:3:3:4:5:6 TYPE [MWWWWW DET [P.N.N.N.N r1 2.405 0 GHz 6.362 dBm	Auto Tun Center Free 2.35600000 GH Start Free 2.30600000 GH
Conter 2.4 Res BW SG Conter F Conter F Conter F Conter F Conter Conter C	100 kHz Band 1 rum Analyzer - Swept SA RF 50 Ω AC req 2.356000000 Ref Offset 2.92 dB Ref 20.00 dBm	Edge(Hoppir 0 GHz PN0: Wide ↔	ng) NVNT 3-DH:	5 2402MHz Ant1 Ho ALIGNAUTO Avg Type: Log-Pwr Avg[Hold: 2000/2000	000 ms (1001 pts) pping Emission 04:04:29 PM Jan 24, 2025 TRACE [1:2:3:4:5 6 TYPE [1:3:4:5 7 TYPE [1:3:	Frequency Auto Tun Center Frequency 2.356000000 GH Start Frequency 2.306000000 GH Stop Frequency 2.406000000 GH
Center 2 Res BW sc glient Specto R RL Center F Center F Center F CodB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz Band 1 rum Analyzer - Swept SA RF 50 Ω AC req 2.356000000 Ref Offset 2.92 dB Ref 20.00 dBm	Edge(Hoppin	ng) NVNT 3-DH:	STATUS ST	000 ms (1001 pts) pping Emission 04:04:29 PM Jan 24, 2025 TRACE [] 23 4 5 6 TYPE [] 24 5	Auto Tun Center Fre 2.356000000 GH Start Fre 2.306000000 GH Stop Fre 2.406000000 GH
Center 2 Res BW sc glient Spect Res BW Center F Center F Center F Center S Center	100 kHz Band 1 rum Analyzer - Swept SA RF 50 Ω AC req 2.356000000 Ref Offset 2.92 dB Ref 20.00 dBm	Edge(Hoppin	ng) NVNT 3-DH:	Sweep 9.	000 ms (1001 pts) pping Emission 104:04:29 PM Jan 24, 2025 TRACE 12:34 5 6 TYPE MWWWWW PET P NNNN r1 2.405 0 GHz 6.362 dBm 	Auto Tun Center Free 2.35600000 GH Start Free 2.30600000 GH Stop Free
Center 2.4 Res BW SG RL Center F Center F Center F Center S Cente	100 kHz Band 1 rum Analyzer - Swept SA RF 50 Ω AC req 2.356000000 Ref Offset 2.92 dB Ref 20.00 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0	Edge(Hoppin 0 GHz PN0: Wide → IFGain:Low #VB1 2.405 0 GHz	ng) NVNT 3-DH: SENSE:INT Trig: Free Run #Atten: 30 dB	STATUS ST	000 ms (1001 pts) pping Emission 04:04:29 PM Jan 24, 2025 TRACE [] 23 4 5 6 TYPE [] 24 5	Auto Tun Center Free 2.356000000 GH Start Free 2.306000000 GH Stop Free 2.406000000 GH CF Step 10.000000 MH Auto
Center 2.4 Res BW SG Center F	100 kHz Band 1 rum Analyzer - Swept SA RF 50 Q AC req 2.356000000 Ref Offset 2.92 dB Ref 20.00 dBm 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0	Edge(Hoppin	ng) NVNT 3-DH:	Sweep 9.	000 ms (1001 pts) pping Emission 104:04:29 PM Jan 24, 2025 TRACE 12:34 5 6 TYPE MWWWWW PET P NNNN r1 2.405 0 GHz 6.362 dBm 	Auto Tun Center Fre 2.356000000 GH Start Fre 2.30600000 GH Stop Fre 2.406000000 GH CF Step 10.000000 MH Auto Auto Freq Offse
Center 2.: Res BW sc glient Spect Res I and the spect I and t	100 kHz Band I rum Analyzer - Swept SA RF 50 Ω AC req 2.356000000 Ref Offset 2.92 dB Ref 20.00 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0	Edge(Hoppir 0 GHz PN0: Wide → IFGain:Low #VB1 2.405 0 GHz 2.400 0 GHz	Ag) NVNT 3-DH:	Sweep 9.	000 ms (1001 pts) pping Emission 104:04:29 PM Jan 24, 2025 TRACE 12:34 5 6 TYPE MWWWWW PET P NNNN r1 2.405 0 GHz 6.362 dBm 	Auto Tun Center Free 2.35600000 GH Start Free 2.30600000 GH Stop Free 2.40600000 GH

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12.5 Restricted band Measurement

EUT	Remote Control			Model	D-Series H16				
Mode	Kee	eping Transmitting		Test Voltage	DC3.7V				
Temperature		24 deg. C,		Humidity	56% RH				
Test Result:		Pass		Detector	РК				
	GFSK, Low Channel, Horizontal								
2390	PK (dBµV/m)	42.26		T :	74(dBµV/m)				
	AV ($dB\mu V/m$)			Limit	54(dBµV/m)				
	GFSK, Low Channel Vertical								
2390	PK (dBµV/m)	41.09		T insit	74(dBµV/m)				
	AV ($dB\mu V/m$)			Limit	54(dBµV/m)				

12.5 Restricted band Measurement

EUT	Remote Control			Model		D-Series H16		
Mode	Ke	eping Transmitting		Test	Voltage	DC3.7V		
Temperature		24 deg. C,		Hu	imidity	56% RH		
Test Result:		Pass		De	etector	РК		
GFSK, High Channel, Horizontal								
2483.5	PK (dBµV/m)	52.49	т :	:1	,	74(dBµV/m)		
	AV ($dB\mu V/m$)		Lim	IT	54(dBµV/m)			
GFSK, High Channel, Vertical								
2483.5	PK (dBµV/m)	46.18	т :	, 74(dB)		74(dBµV/m)		
	AV ($dB\mu V/m$)		Limi	IL		54(dBµV/m)		

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12.5 Restricted band Measurement

EUT	Remote Control			Model		D-Series H16			
Mode	Ke	eping Transmitting		Test Voltage		DC3.7V			
Temperature		24 deg. C,		Hui	nidity	56% RH			
Test Result:		Pass		De	tector	РК			
	Л/4DQPSK, Low Channel, Horizontal								
2390	PK (dBµV/m)	41.47	T in	nit.		74(dBµV/m)			
	AV (dBµV/m)		Lir	nit	54(dBµV/m)				
Л/4DQPSK, Low Channel Vertical									
2390	PK (dBµV/m)	40.35	T :	74(d		74(dBµV/m)			
	AV (dBµV/m)		Lir	IIIL		54(dBµV/m)			

Restricted band Measurement 12.5

EUT	Remote Control			Model		D-Series H16			
Mode	Ke	eeping Transmitting		Test	Voltage	DC3.7V			
Temperature		24 deg. C,		Hu	imidity	56% RH			
Test Result:		Pass		De	etector	РК			
	Л/4DQPSK, High Channel, Horizontal								
2483.5	PK (dBµV/m)	51.82	T	•,	74(dBµV/m)				
	AV ($dB\mu V/m$)		Lim	10	54(dBµV/m)				
Л/4DQPSK, High Channel, Vertical									
2483.5	PK (dBµV/m)	46.79	т :	.,		74(dBµV/m)			
	AV ($dB\mu V/m$)		Lim	IL		54(dBµV/m)			

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12.5 Restricted band Measurement

EUT	Remote Control			Model		D-Series H16		
Mode	Ke	eping Transmitting		Test Voltage		DC3.7V		
Temperature		24 deg. C,		Hui	nidity	56% RH		
Test Result:		Pass		De	tector	РК		
8DPSK, Low Channel, Horizontal								
2390	PK (dBµV/m)	41.53	T in	nit.		74(dBµV/m)		
	AV ($dB\mu V/m$)		LII	Limit		54(dBµV/m)		
Л/4DQPSK, Low Channel Vertical								
2390	PK (dBµV/m)	41.05	T in	Limit		74(dBµV/m)		
	AV $(dB\mu V/m)$		LlI	IIIt		54(dBµV/m)		

Restricted band Measurement 12.5

EUT	Remote Control			Model		D-Series H16			
Mode	Ke	eeping Transmitting		Test	Voltage	DC3.7V			
Temperature		24 deg. C,		Hu	midity	56% RH			
Test Result:		Pass		De	etector	РК			
	8DPSK, High Channel, Horizontal								
2483.5	PK (dBµV/m)	51.49	T.'	•,	74(dBµV/m)				
	AV ($dB\mu V/m$)		Lim	10	54(dBµV/m)				
	Л/4DQPSK, High Channel, Vertical								
2483.5	PK (dBµV/m)	46.37	T inst			74(dBµV/m)			
	AV ($dB\mu V/m$)		Limit			54(dBµV/m)			

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13.0 Antenna Requirement

13.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

13.2 Antenna Connected constructions

FPC antenna used. The gain of the antennas is 4.54dBi (Get from the antenna specification provided the manufacturer)

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14.0 FCC ID Label

FCC ID: 2BM3J-H16

This device complies with Part 15 of the FCC Rules. Operation is subject to the

following two conditions: (1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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15.0 Photo of testing

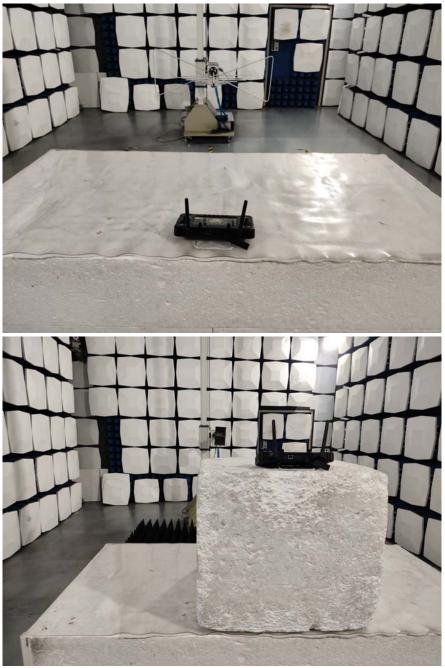
Conducted Emission Test Setup:



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Radiated Emission Test Setup:



Photos of EUT Please see test report TW2501163-01E

End of Report

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