

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:JOY MORE TRADE LIMITEDAddress:ROOM 602, 6/F, KAI YUE COMMERCIAL BUILDING, NO.2C, ARGYLE STREET,
MONGKOK KOWLOON, HONG KONG

1.3 Description of EUT

Product:	STV player
Manufacturer:	JOY MORE TRADE LIMITED
Address:	ROOM 602, 6/F, KAI YUE COMMERCIAL BUILDING, NO.2C, ARGYLE STREET,
	MONGKOK KOWLOON, HONG KONG

Trademark:



STV S2 PRO Model Number: Additional Model Number: STV S3 PRO, STV S3 Ultra Hardware Version: V2.0 Software Version: V2.0 Serial No.: E076D0C33CC3 Type of Modulation GFSK, JI/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 2.45dBi (Get from the antenna specification provided the manufacturer) Input: DC5.0V, 2A Rating: Power Supply: Model: OL010-0502000U Input: 100-240V~, 50/60Hz, 0.45A; Output: DC5V, 2A

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

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2024-12-02 to 2024-12-12

1.6 Test Uncertainty

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

Andy -xing

The sample tested by

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	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2024-07-12	2025-07-11
RF Cable	Zhengdi	7m		2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

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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3.0 **Technical Details**

3.1 Summary of test results

47 Section , 15.247(b)(4) 7 (b)(1), (4) 247(a)(1)	Result Pass Pass Pass Pass	Notes Complies Complies Complies
7 (b)(1), (4)	Pass Pass	Complies
	Pass	Complies
247(a)(1)		-
	Pass	a u
247 (a)(1)	1 455	Complies
iii), 15.247(b)((1) Pass	Complies
247(a)(iii)	Pass	Complies
(d),15.205(a), 9 (a),15.109	Pass	Complies
	Pass	Complies
7(a), 15.107		
)	9 (a),15.109 7(a), 15.107	

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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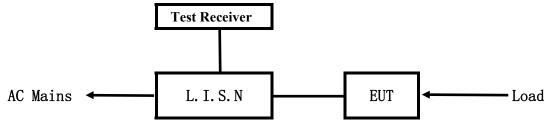
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5. **Power Line Conducted Emission Test**

5.1 Schematics of the test

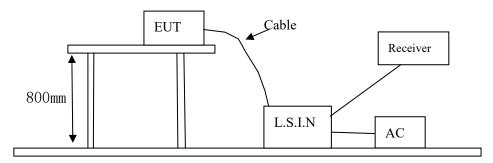


EUT: Equipment Under Test

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
STV alexee	JOY MORE TRADE	STV S2 PRO, STV S3 PRO, STV S3	2BMHL2PRO
STV player	LIMITED	LIMITED Ultra	

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

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

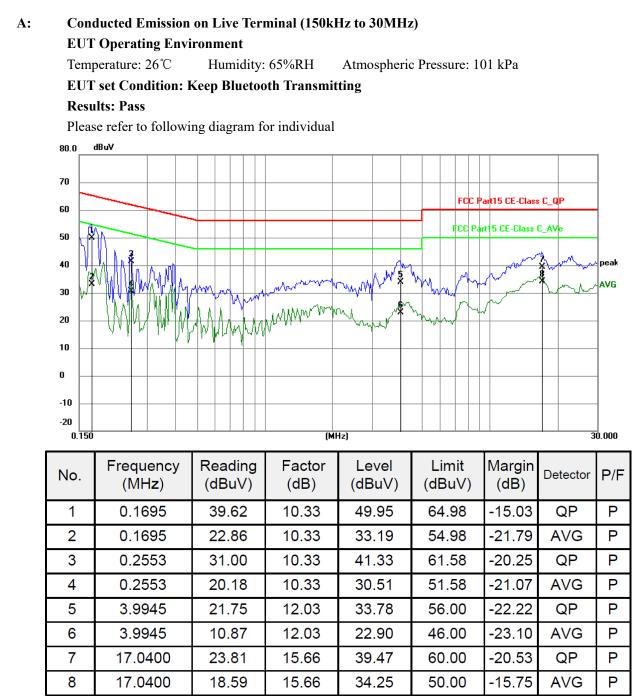
The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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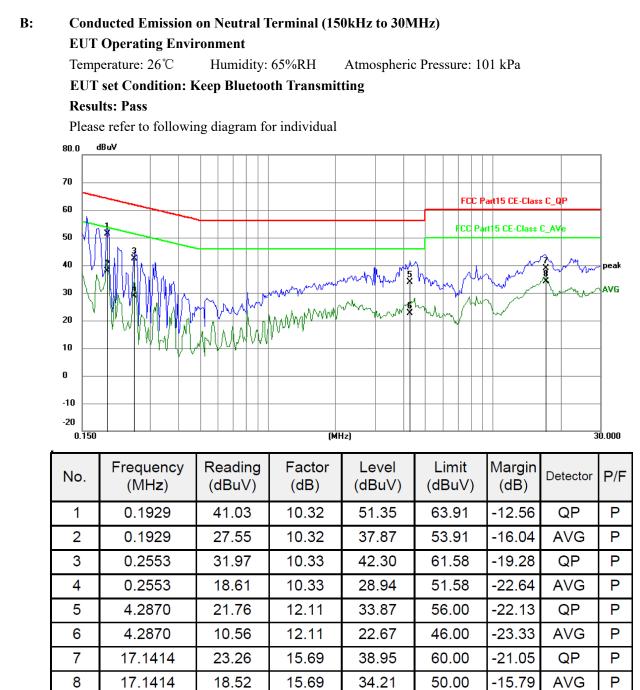


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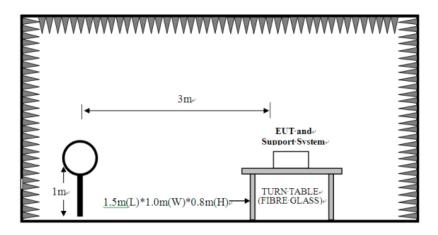


6 Radiated Emission Test

- 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



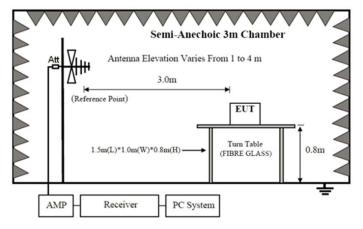
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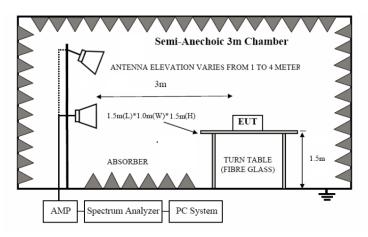
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For radiated emissions from 30MHz to1GHz



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. 8DPSK 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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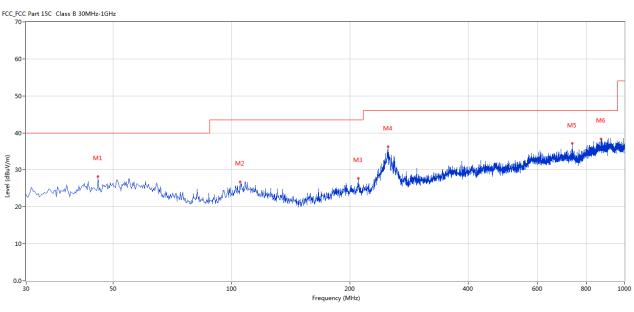
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H

Test Figure:



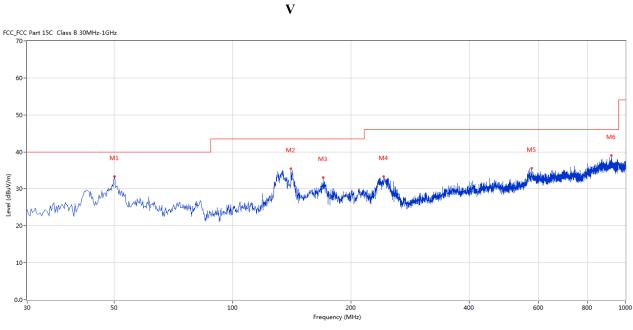
No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	45.759	28.20	-6.07	40.0	11.80	Peak	191.00	100	Horizontal	Pass
2	105.156	26.80	-6.20	43.5	16.70	Peak	44.00	100	Horizontal	Pass
3	209.890	27.67	-6.83	43.5	15.83	Peak	289.00	100	Horizontal	Pass
4	250.135	36.27	-5.03	46.0	9.73	Peak	52.00	100	Horizontal	Pass
5	737.196	37.12	2.45	46.0	8.88	Peak	204.00	100	Horizontal	Pass
6	871.750	38.42	5.13	46.0	7.58	Peak	200.00	100	Horizontal	Pass

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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	50.122	33.41	-5.17	40.0	6.59	Peak	0.00	100	Vertical	Pass
2	140.795	35.53	-9.91	43.5	7.97	Peak	173.00	100	Vertical	Pass
3	169.888	33.07	-8.98	43.5	10.43	Peak	206.00	100	Vertical	Pass
4	242.619	33.40	-5.47	46.0	12.60	Peak	280.00	100	Vertical	Pass
5	577.428	35.55	1.45	46.0	10.45	Peak	302.00	100	Vertical	Pass
6	920.237	39.07	5.60	46.0	6.93	Peak	22.00	100	Vertical	Pass

The report refers only to the sample tested and does not apply to the bulk.

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operation interati	Transmitting under Low Ci	iuniter (2 102101112)	
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(Peak)/ 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

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 would.	Transmitting under High C.	nannei (2400141112)	
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

Type of Modulati	ion:	
-------------------------	------	--

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
		2402		0.887	0	Pass
	1-DH5	2441		0.969	0	Pass
		2480		0.948	0	Pass
		2402		1.238	0	Pass
NVNT	2-DH5	2441	Ant1	1.278	0	Pass
		2480		1.28	0	Pass
		2402		1.271	0	Pass
	3-DH5	2441	1	1.241	0	Pass
		2480		1.245	0	Pass

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		Test Graphs			
	-20dB Bandwi	dth NVNT 1-DH5	2402MHz A	Ant1	
i <mark>lent Spectrum Analyzer - Occupied B</mark> RL RF 50 Ω AC		SENSE:INT	ALIGN AUTO	10:08:32 PM Dec 04, 2024	
enter Freq 2.402000000	GHz Cente	er Freq: 2.402000000 GHz		Radio Std: None Radio Device: BTS	Frequency
Ref Offset 2.92 dl dB/div Ref 22.92 dBn			Mkr3	2.402432 GHz -13.200 dBm	
0 g 2.9		01			Center Free
.92	2 mm	monor	• 3		2.402000000 GH
.08	Arran .		~!		
7.1				month and the	
7.1					
7.1					
7.1					
enter 2.402 GHz Res BW 30 kHz		≠VBW 100 kHz		Span 2 MHz Sween 2 667 ms	CF Step
				Sweep 2.667 ms	200.000 kH Auto Ma
Occupied Bandwidt		Total Power	15.1	dBm	
	42.83 kHz		<i></i>		Freq Offse
Transmit Freq Error	-11.685 kHz	OBW Power		.00 %	01
x dB Bandwidth	886.9 kHz	x dB	-20.0	00 dB	
G	-20dB Bandwi	dth NVNT 1-DH5	status 2441MHz A		
ilent Spectrum Analyzer - Occupied B	W		2441MHz A	Ant1	
j <mark>lent Spectrum Analyzer - Occupied B</mark> RL RF 50 Q AC	W IGHz Cente	SENSE:INT	2441MHz A	Ant1	Frequency
ilent Spectrum Analyzer - Occupied B RL RF 50 Ω AC	W I GHz Centr -→→ Trig:	SENSE:INT	2441MHz / Align auto Id: 100/100	Ant I 10:10:21 PMDec 04, 2024 Radio Std: None Radio Device: BTS	Frequency
ilent Spectrum Analyzer - Occupied B RL RF 50 g. ac enter Freq 2.441000000 Ref Offset 2.96 dl 0 dB/div Ref 22.96 dl	W I GHz Cente #IFGain:Low #Atte B	SENSE:INT er Freq: 2.441000000 GHz Free Run Avg Ho	2441MHz / Align auto Id: 100/100	Ant I 10:10:21 PMDec 04, 2024 Radio Std: None	Frequency
Ilent Spectrum Analyzer - Occupied B RL RF 50 Ω AC enter Freq 2.441000000 Ref Offset 2.96 dl 0 dB/div Ref Offset 22.96 dB	W I GHz Cente #IFGain:Low #Atte B	SENSE:INT er Freq: 2.441000000 GHz Free Run Avg Ho	2441MHz / Align auto Id: 100/100	Ant 1 10:10:21 PMDec 04, 2024 Radio Std: None Radio Device: BTS 2.441473 GHz	Frequency
RL RF S0 Ω AC enter Freq 2.441000000 Ref Offset 2.96 dB 0 dB/div Ref 22.96 dBn 30 96	W I GHz Cente #IFGain:Low #Atte B	SENSE:INT er Freq: 2.441000000 GHz Free Run Avg Ho	2441MHz / Align auto Id: 100/100	Ant 1 10:10:21 PMDec 04, 2024 Radio Std: None Radio Device: BTS 2.441473 GHz	Center Freq
RL RF S0 Ω AC enter Freq 2.441000000 Ref Offset 2.96 dl Ref Offset 2.96 dl 0 dB/div Ref 22.96 dBn Ref 22.96 db 30 96 4 4	W I GHz Cente #IFGain:Low #Atte B	SENSE:INT er Freq: 2.441000000 GHz Free Run Avg Ho	2441MHz / Align auto Id: 100/100	Ant 1 10:10:21 PMDec 04, 2024 Radio Std: None Radio Device: BTS 2.441473 GHz	Frequency
Ilent Spectrum Analyzer - Occupied B RL RF 50 Ω AC enter Freq 2.441000000 Ref Offset 2.96 dB 0 dB/div Ref 22.96 dBn 90 90 90 04 90 90 04 90 90 04 90 90	W I GHz Cente #IFGain:Low #Atte B	SENSE:INT er Freq: 2.441000000 GHz Free Run Avg Ho	2441MHz / Align auto Id: 100/100	Ant 1 10:10:21 PMDec 04, 2024 Radio Std: None Radio Device: BTS 2.441473 GHz	Center Freq
Itent Spectrum Analyzer - Occupied B RL RF 50 Ω AC enter Freq 2.441000000 Ref Offset 2.96 dB B 0 dB/div Ref Offset 22.96 dB Ref 22.96 dB 99	W I GHz Cente #IFGain:Low #Atte B	SENSE:INT er Freq: 2.441000000 GHz Free Run Avg Ho	2441MHz / Align auto Id: 100/100	Ant 1 10:10:21 PMDec 04, 2024 Radio Std: None Radio Device: BTS 2.441473 GHz	Center Freq
Ilent Spectrum Analyzer - Occupied B RL RF S0 Q AC enter Freq 2.441000000 Ref Offset 2.96 dB Ref Offset 2.96 dB Ref Offset 2.96 dB 0 dB/div Ref 22.96 dB Ref 000000000000000000000000000000000000	W I GHz Cente #IFGain:Low #Atte B	SENSE:INT er Freq: 2.441000000 GHz Free Run Avg Ho	2441MHz / Align auto Id: 100/100	Ant 1 10:10:21 PMDec 04, 2024 Radio Std: None Radio Device: BTS 2.441473 GHz	Center Freq
Ilent Spectrum Analyzer - Occupied B RL RF S0 Q AC enter Freq 2.441000000 Ref Offset 2.96 dB Ref Offset 2.96 dB Ref Offset 2.96 dB 0 dB/div Ref 22.96 dB Ref 000000000000000000000000000000000000	W I GHz Cente #IFGain:Low #Atte B	SENSE:INT er Freq: 2.441000000 GHz Free Run Avg Ho	2441MHz / Align auto Id: 100/100	Ant 1 10:10:21 PMDec 04, 2024 Radio Std: None Radio Device: BTS 2.441473 GHz -15.273 dBm	Center Freq
Spectrum Analyzer - Occupied B RL RF 50 2 AC enter Freq 2.441000000 Ref Offset 2.96 dB Ref 22.96 dBn 0 dB/div Ref 22.96 dBn Ref 22.96 dBn 0 g	W GHz Cent #IFGain:Low #Atter B 0 2 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT er Freq: 2.441000000 GHz Free Run Avg Ho	2441MHz / Align auto Id: 100/100	Ant 1 10:10:21 PMDec 04, 2024 Radio Std: None Radio Device: BTS 2.441473 GHz	Center Free 2.441000000 GH
glent Spectrum Analyzer - Occupied B RL RF 50 Q Ac enter Freq 2.441000000 Ref Offset 2.96 dl O B/d I/V Ref Offset 2.96 dl O Ref 22.96 dl Ac O Ac Ac Ac Ac Ac Ac Ac	W IGHz Cent #IFGain:Low #Atte B 1 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT er Freq: 2.44100000 GHz Free Run Avg Ho n: 30 dB	ALIGNAUTO Id: 100/100 Mkr3	Ant 1 ID:10:21 PMDec 04, 2024 Radio Std: None Radio Device: BTS 2.441473 GHz -15.273 dBm	Center Freq 2.441000000 GH
ilent Spectrum Analyzer - Occupied B RL RF 50 Q AC enter Freq 2.441000000 Ref Offset 2.96 dl od B/div Ref 22.96 dl od B/div Ref 22.96 dl od B/div od B/div of Colspan="2">od B/div od B/div	W GHz Centr Trig: #IFGain:Low Atte Centr Trig: Atte	SENSE:INT er Freq: 2.441000000 GHz Free Run Avg Ho n: 30 dB	ALIGNAUTO Id: 100/100 Mkr3	Ant1 Dist0:21 PMDec 04, 2024 Radio Std: None Radio Device: BTS 2.441473 GHz -15.273 dBm	Center Free 2.441000000 GH 200.000 kH Auto Mar
Ref Offset 2.96 dB Ref Offset 2.96 dB Odd Ref Offset 2.96 dB 0 dB/div Ref 0.00000000000000000000000000000000000	M GHz Trig: #IFGain:Low Attended Center Trig: #Attended At	SENSE:INT ar Freq: 2.44100000 GHz Free Run Avg Ho n: 30 dB 4 4 4 4 4 4 4 4 4 4 4 4 4	2441MHz / ALIGNAUTO id: 100/100 Mkr3	Ant 1	Center Free 2.441000000 GH
0 dB/div Ref 22.96 dBn 9 2.96 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	M GHz Centr Trig: #IFGain:Low Atte B n 2 Atte	SENSE:INT er Freq: 2.44100000 GHz Free Run Avg Ho n: 30 dB	2441MHz / ALIGNAUTO Id: 100/100 Mkr3	Ant 1 Ant 1 ID: 10: 21 FMDec 04, 2024 Radio Std: None Radio Device: BTS 2.441473 GHz -15.273 dBm Span 2 MHz Sweep 2.667 ms dBm .00 %	Center Free 2.441000000 GH 200.000 kH Auto Mat
Ref Offset 2.96 dl Ref Offset 2.96 dl 0 dB/div Ref 0.00000000000000000000000000000000000	M GHz Trig: #IFGain:Low Attended Center Trig: #Attended At	SENSE:INT ar Freq: 2.44100000 GHz Free Run Avg Ho n: 30 dB 4 4 4 4 4 4 4 4 4 4 4 4 4	2441MHz / ALIGNAUTO Id: 100/100 Mkr3	Ant 1	Center Free 2.441000000 GH 200.000 kH Auto Mat
ilent Spectrum Analyzer - Occupied B RL RF 50 2 AC enter Freq 2.441000000 Ref Offset 2.96 dl 0 dB/div Ref 22.96 dl 0 dB/div Ref 22.9	M GHz Centr Trig: #IFGain:Low Atte B n 2 Atte	SENSE:INT er Freq: 2.44100000 GHz Free Run Avg Ho n: 30 dB	2441MHz / ALIGNAUTO Id: 100/100 Mkr3	Ant 1 Ant 1 ID: 10: 21 FMDec 04, 2024 Radio Std: None Radio Device: BTS 2.441473 GHz -15.273 dBm Span 2 MHz Sweep 2.667 ms dBm .00 %	Center Free 2.441000000 GH 200.000 kH Auto Mat
Ref So 2 ac Ref Offset 2.96 dl Odd B/div Odd B/div Ref Offset 2.96 dl Odd B/div Ref Offset 2.96 dl Odd B/div Odd B/div Occupied Bandwidt BW 30 kHz Occupied Bandwidt Bandwidt Bandwidt Bandwidt	M GHz Centr Trig: #IFGain:Low Atte B n 2 Atte	SENSE:INT er Freq: 2.44100000 GHz Free Run Avg Ho n: 30 dB	2441MHz / ALIGNAUTO Id: 100/100 Mkr3	Ant I Ant I ID: 10: 21 FMDec 04, 2024 Radio Std: None Radio Device: BTS 2.441473 GHz -15.273 dBm Span 2 MHz Sweep 2.667 ms dBm .00 % 00 dB	Center Free 2.441000000 GH 200.000 kH Auto Mat

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	Analyzer Occup RF 50 Ω q 2.480000	AC	Center	SENSE:INT	000 GHz		10:11:52 F Radio Std	MDec 04, 2024 : None	Frequency
		#IFGain:		ree Run : 30 dB	Avg Hold: '	100/100	Radio Dev	vice: BTS	
	Ref Offset 2.					Mkr3		l61 GHz 06 dBm	
0 dB/div .og	Ref 22.98	dBm	0	1		1	-10.3		
13.0				non.					Center Free 2.480000000 GH
7.02			man	- Www	m	♦ ³			2.48000000 GH
17.0		~~~~~			- m	Mm			
27.0	A man and					*0	w w		
17.0								w	
57.0									
67.0									
enter 2.48	3 GHz						Sp	an 2 MHz	
Res BW 3			#\	VBW 100 kH	lz			2.667 ms	CF Ster 200.000 kH
Occupi	ed Bandw	vidth		Total Po	wer	15.6	dBm		<u>Auto</u> Mar
		866.2	6 kHz						Freq Offse
Transmi	t Freq Erro	r -12	.819 kHz	OBW Po	wer	99	.00 %		0F
x dB Bar	•		48.2 kHz	x dB			00 dB		
)dB Bandwid	lth NVNT 2-	-DH5 24(status 02MHz 4			
gilent Spectrum R L	Analyzer - Occup RF 50 Ω q 2.4020000	pied BW	Center	SENSE:INT • Freq: 2.4020000	000 GHz	02MHz A	Ant1	MDec 04, 2024 : None	Frequency
gilent Spectrum R L	RF 50 Ω	pied BW	Center ← Trig: F	SENSE:INT r Freq: 2.4020000 ree Run	A	02MHz / LIGNAUTO 100/100	Ant 1 10:13:32 F Radio Std Radio Dev	: None vice: BTS	Frequency
ilent Spectrum RL enter Fre	RF 50 Ω q 2.402000 Ref Offset 2.	pied BW AC 0000 GHz #IFGain: .92 dB	Center ← Trig: F	SENSE:INT r Freq: 2.4020000 ree Run	000 GHz	02MHz / LIGNAUTO 100/100	Ant1 10:13:32 F Radio Std Radio Dev 2.4026	: None	Frequency
RL	RF 50 Ω q 2.402000	pied BW AC 0000 GHz #IFGain: .92 dB	Center ← Trig: F	SENSE:INT r Freq: 2.4020000 ree Run	000 GHz	02MHz / LIGNAUTO 100/100	Ant1 10:13:32 F Radio Std Radio Dev 2.4026	: None vice: BTS 5 04 GHz	
gilent Spectrum RL enter Fre 0 dB/div 9 2.9	RF 50 Ω q 2.402000 Ref Offset 2.	pied BW AC 0000 GHz #IFGain: .92 dB	Low #Atten	SENSE:INT Freq: 2.4020000 ree Run :30 dB	000 GHz	02MHz / LIGNAUTO 100/100	Ant1 10:13:32 F Radio Std Radio Dev 2.4026	: None vice: BTS 5 04 GHz	Frequency Center Free 2.40200000 GH
RL RL OdB/div OdB/div OdB/div OdB/div OdB/div OdB/div OdB/div OdB/div OdB/div	RF 50 Ω q 2.402000 Ref Offset 2.	pied BW AC 0000 GHz #IFGain: .92 dB	Center ← Trig: F	SENSE:INT r Freq: 2.4020000 ree Run	000 GHz	02MHz / LIGNAUTO 100/100	Ant1 10:13:32 F Radio Std Radio Dev 2.4026	: None vice: BTS 5 04 GHz	Center Free
Genter Free 0 0	RF 50 Ω q 2.402000 Ref Offset 2.	pied BW AC 0000 GHz #IFGain: .92 dB	Low #Atten	SENSE:INT Freq: 2.4020000 ree Run :30 dB	000 GHz	02MHz / LIGNAUTO 100/100	Ant1 10:13:32 F Radio Std Radio Dev 2.4026	: None vice: BTS 5 04 GHz	Center Free
ilent Spectrum RL enter Fre 0 dB/div 0 g 2.9 9.92 0.08 7.1 0.04	RF 50 Ω q 2.402000 Ref Offset 2.	pied BW AC 0000 GHz #IFGain: .92 dB	Low #Atten	SENSE:INT Freq: 2.4020000 ree Run :30 dB	000 GHz	02MHz / LIGNAUTO 100/100	Ant1 10:13:32 F Radio Std Radio Dev 2.4026	: None vice: BTS 5 04 GHz	Center Free
Bilent Spectrum RL enter Fre 0 dB/div 0 g 2.9 9.92 .08 7.1 7.1 7.1 7.1	RF 50 Ω q 2.402000 Ref Offset 2.	pied BW AC 0000 GHz #IFGain: .92 dB	Low #Atten	SENSE:INT Freq: 2.4020000 ree Run :30 dB	000 GHz	02MHz / LIGNAUTO 100/100	Ant1 10:13:32 F Radio Std Radio Dev 2.4026	: None vice: BTS 5 04 GHz	Center Free
Bilent Spectrum RL Conterr Free 0 dB/div 0 g 2.9 9.92 9.92 9.92 1.08 7.1 7.1 7.1 7.1 7.1 7.1 7.1	RF 50 Ω q 2.402000 Ref Offset 2.	pied BW AC 0000 GHz #IFGain: .92 dB	Low #Atten	SENSE:INT Freq: 2.4020000 ree Run :30 dB	000 GHz	02MHz / LIGNAUTO 100/100	Ant1 10:13:32 F Radio Std Radio Dev 2.4026	: None vice: BTS 5 04 GHz	Center Free
gilent Spectrum RL enter Fre 0 dB/div 29 29 29 29 29 71 71 71 71 71 71 71 71 71 71 71 71	RF 50 Ω q 2.402000 Ref Offset 2 Ref 22.92	pied BW AC 0000 GHz #IFGain: .92 dB	Low #Atten	SENSE:INT Freq: 2.4020000 ree Run :30 dB	000 GHz	02MHz / LIGNAUTO 100/100	Ant1 10:13:32 F Radio Std Radio Dev 2.4026 -15.7	: None vice: BTS 04 GHz 42 dBm	Center Free
gilent Spectrum RL enter Fre 0 dB/div 0 g 2.9 2.9 2.92 2.92 2.92 2.92 2.92 2.92 2.92 2.92 1.71 7.1	Ref Offset 2 Ref 22.92	pied BW AC 0000 GHz #IFGain: .92 dB	Center Trig: Fi #Atten:	SENSE:INT Freq: 2.4020000 ree Run :30 dB	A 000 GHz Avg Hold: 1	02MHz / LIGNAUTO 100/100	Ant1 10:13:32 F Radio Std Radio Dev 2.4026 -15.7 3 -15.7 Sp	: None vice: BTS 5 04 GHz	Center Free 2.40200000 GH CF Ster 200.000 kH
Spectrum RL enter Fre enter Fre 0 dB/div 9 29 29 29 29 20 29 21 29 29 29 29 29 202 29 21 71 71 71	Ref Offset 2 Ref 22.92	pied BW AC 1000 GHz #IFGain: 92 dB dBm	Center Trig: Fi #Atten:	SENSE:INT Freq: 2.4020000 ree Run : 30 dB	Avg Hold: *		Ant1 10:13:32 F Radio Std Radio Dev 2.4026 -15.7 3 -15.7 Sp	an 2 MHz	Center Free 2.402000000 GH
Spectrum RL enter Fre enter Fre 0 dB/div 9 29 29 29 29 20 29 21 29 29 29 29 29 202 29 21 71 71 71	RF 50 Ω q 2.402000 Ref Offset 2. Ref 22.92 0 0 0 KHZ	pied BW AC 1000 GHz #IFGain: 92 dB dBm	Low #Atten	SENSE:INT Freq: 2.4020000 ree Run :30 dB	Avg Hold: *		Ant1 10:13:32 F Radio Std Radio Dev 2.4026 -15.7 3 	an 2 MHz	Center Fred 2.402000000 GH 2.40200000 GH CF Step 200.000 kH <u>Auto</u> Mar
RL RL eenter Free 9 0 dB/div 9 29 9 29 9 29 9 29 9 29 9 29 9 29 9 29 9 29 9 29 9 29 9 29 9 29 9 20 9 20 9 210 9 211 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9	RF 50 Ω q 2.402000 Ref Offset 2. Ref 22.92 0 0 0 KHZ	vidth	Low #Atten	SENSE:INT Freq: 2.4020000 ree Run :30 dB	looo GHz Avg Hold: /	02MHz / LIGNAUTO 100/100 Mkr3	Ant1 10:13:32 F Radio Std Radio Dev 2.4026 -15.7 3 	an 2 MHz	Center Free 2.40200000 GH CF Ster 200.000 kH
RL RL eenter Free 9 0 dB/div 9 29 9 29 9 29 9 29 9 29 9 29 9 29 9 29 9 29 9 29 9 29 9 29 9 29 9 20 9 20 9 210 9 211 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9 7.1 9	Ref Offset 2. Ref 22.92	pied BW AC 1000 GHz #IFGain: 92 dB dBm / 1000 GHz //IFGain: 92 dB dBm / 1000 GHz //IFGain: 92 dB dBm / //IFGain: 92 dB dBm / ///////////////////////////////	Center Trig: F #Atten: #Atten: #	SENSE:INT Freq: 2.4020000 ree Run : 30 dB	looo GHz Avg Hold: /	02MHz / LIGNAUTO 100/100 Mkr3 	Ant1 10:13:32 F Radio Std Radio Dev 2.4026 -15.7 3 3 Sp Sweep 3 dBm	an 2 MHz	Center Free 2.402000000 GH CF Step 200.000 kH <u>Auto</u> Mar Freq Offse
Billent Spectrum RL enter Fre 0 dB/div 9 12.9 12.9 12.9 1.08 7.1 <t< td=""><td>Ref Offset 2. Ref 22.92</td><td>pied BW AC 1000 GHz #IFGain: 92 dB dBm / 1000 GHz //IFGain: 92 dB dBm / 1000 GHz //IFGain: 92 dB dBm / //IFGain: 92 dB dBm / ///////////////////////////////</td><td>Center Trig: F #Atten:</td><td>SENSE:INT Freq: 2.4020000 ree Run : 30 dB</td><td>looo GHz Avg Hold: /</td><td>02MHz / LIGNAUTO 100/100 Mkr3 </td><td>Ant1 10:13:32 F Radio Std Radio Dev 2.4026 -15.7 3 - Sweep Sweep dBm .00 %</td><td>an 2 MHz</td><td>Center Free 2.402000000 GH CF Step 200.000 kH <u>Auto</u>Man</td></t<>	Ref Offset 2. Ref 22.92	pied BW AC 1000 GHz #IFGain: 92 dB dBm / 1000 GHz //IFGain: 92 dB dBm / 1000 GHz //IFGain: 92 dB dBm / //IFGain: 92 dB dBm / ///////////////////////////////	Center Trig: F #Atten:	SENSE:INT Freq: 2.4020000 ree Run : 30 dB	looo GHz Avg Hold: /	02MHz / LIGNAUTO 100/100 Mkr3 	Ant1 10:13:32 F Radio Std Radio Dev 2.4026 -15.7 3 - Sweep Sweep dBm .00 %	an 2 MHz	Center Free 2.402000000 GH CF Step 200.000 kH <u>Auto</u> Man

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00 98 7.0 7.0 7.0 7.0 98 7.0 98 7.0 98 98 98 98 98 98 98 98 98 98		idth 1.1710 I		VBW 100 kHz Total Powe	er 13		an 2 MHz 2.667 ms	CF Ste 200.000 k⊦ <u>Auto</u> Ma
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			~ mm	Ann		- 2		Center Fre 2.480000000 GH
) dB/div	Ref 22.98	dBm		1		-13.5	97 dBm	
	Ref Offset 2.	98 dB			Mkr	3 2.4806	26 GHz	
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	m Analyzer - Occup RF 50 Ω			SENSE:INT	ALIGN AUTO	10:16:35 P	MDec 04, 2024	
		-20dI	3 Bandwid	lth NVNT 2-D	H5 2480MHz	: Ant1		
3					STAT	US		
	it Freq Erroı ındwidth		24 kHz 8 MHz	OBW Pow x dB		99.00 %).00 dB		
Tra	it Ero- 5	1.1651 I			.r	0.00.01		Freq Offs 0 ۱
Occup	ied Bandw			Total Powe	ər 14.	.5 dBm		<u>Auto</u> Ma
enter 2.4 Res BW ≑			#	VBW 100 kHz			an 2 MHz 2.667 ms	CF Ste 200.000 kH
.0								
1.0			_					
~~~~	ma					hory	mm	
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04		mm	mm	( a varp	man man	<b>3</b>		2.44 100000 GF
96								Center Fre 2.441000000 GF
	Ref Offset 2. Ref 22.96						26 dBm	
pg 📃	D.407	#IFGain:Low	v #Atten.	: 30 dB	Mkr	Radio Dev 3 2.4416		
) dB/div 2g 3.0		000 GHz	Center		ALIGN AUTO ) GHz /g Hold: 100/100	Radio Std		Frequency

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7.0 7.0 Renter 2.44 Res BW 30	d Bandwid	^{ith} .1621 MHz	Total Power	14.8 dBn	<u></u> ו	
7.0 7.0 enter 2.44						<u>Auto</u> Man
7.0			#VBW 100 kHz	Swe	Span 2 MHz ep 2.667 ms	CF Ster 200.000 kH
7.0						
7.0 7.0	unn				mmm	
7.0	A	· · · · · · · · · · · · · · · · · · ·				
.96	A	mmm	man	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		2.441000000 GH
0 dB/div 9g 3.0	Ref 22.96 dB	• <b>m</b>		-1.		Center Free
	Ref Offset 2.96	dB		Mkr3 2.44	41617 GHz 2.631 dBm	
	2.44100000	0 GHz	SENSE:INT Senter Freq: 2.441000000 G rig: Free Run Avg  Atten: 30 dB	Hz Radio Hold: 100/100	2:28 PM Dec 04, 2024 Std: None Device: BTS	Frequency
	Analyzer - Occupied		CENCE UNIT	ALIGNAUTO 10:19	OD DMDec 04, 2021	
		-20dB Ban	dwidth NVNT 3-DH			
G				STATUS		
л uв Ban	awiutN	1.271 MH:	z xdB	-20.00 dE	•	
Transmit x dB Ban	Freq Error	-12.655 kH		99.00 % -20.00 dB	-	он
Securie		.1757 MHz				Freq Offse
Res BW 30	d Bandwid	lth	#VBW 100 kHz Total Power	13.0 dBrr	ep 2.667 ms n	200.000 kH <u>Auto</u> Ma
enter 2.40					Span 2 MHz	CF Step
7.1						
7.1 <b>~~~~</b> 7.1					My and My	
7.1					Magnam	
.08	2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	man	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		2.40200000 GH
99 2.9 .92						Center Fre 2.402000000 GH
) dB/div og	Ref Offset 2.92 Ref 22.92 dB				02623 GHz 7.891 dBm	
		T taga	rig: Free Run Avg  Atten: 30 dB		Device: BTS	
	2.40200000		sense:INT enter Freq: 2.402000000 G	Hz Radio	01 PMDec 04, 2024 Std: None	Frequency

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Frequency	Radio Std: None Radio Device: BTS	d: 100/100		SENSE:INT Center Freq: 2. Trig: Free Run #Atten: 30 dB	GHz #IFGain:Low	50 Ω AC   10000000 G #I	⊪ Freq 2.48	enter
	2.480602 GHz -16.738 dBm	Mkr3				ffset 2.98 dB 2 <b>2.98 dBm</b>		0 dB/div
Center Fred 2.480000000 GH:		mm	mm	1 mm	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			og 3.0 .98 .02
	homen						A	7.0 7.0 7.0
								7.0
CE Stor	Span 2 MHz						2.48 GHz	
CF Step 200.000 kH	Sweep 2.667 ms		) kHz	#VBW 1			V 30 kHz	Res Bl
<u>Auto</u> Mar	dBm	13.2	Power		י 1792 M	andwidth 1 1	pied Ba	Осси
Freq Offse 0 H	.00 %	99.	Power		-20.271		mit Freq	Trans
	00 dB	-20.0		VIHz xd	1.245 I	th	Bandwid	x 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**

### **Type of Modulation:**

Condition	Mode	Frequency	Antenna	Conducted Power	Duty Factor	Total Power	Limit	Verdict
		(MHz)		(dBm)	(dB)	(dBm)	(dBm)	
		2402		8.36	0	8.36	21	Pass
	1-DH5	2441		9.06	0	9.06	21	Pass
		2480		8.87	0	8.87	21	Pass
		2402		8.34	0	8.34	21	Pass
NVNT	2-DH5	2441	Ant1	9.05	0	9.05	21	Pass
		2480		8.87	0	8.87	21	Pass
		2402		8.44	0	8.44	21	Pass
	3-DH5	2441		9.09	0	9.09	21	Pass
		2480		9.05	0	9.05	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.

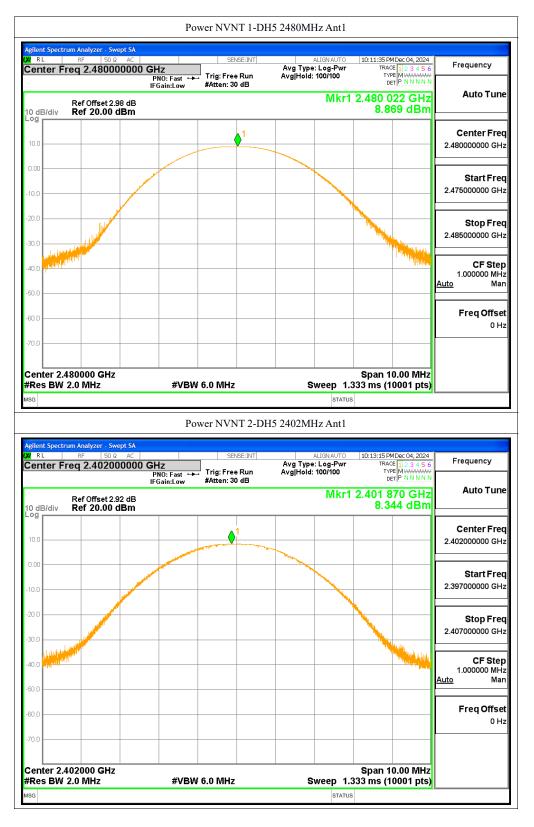




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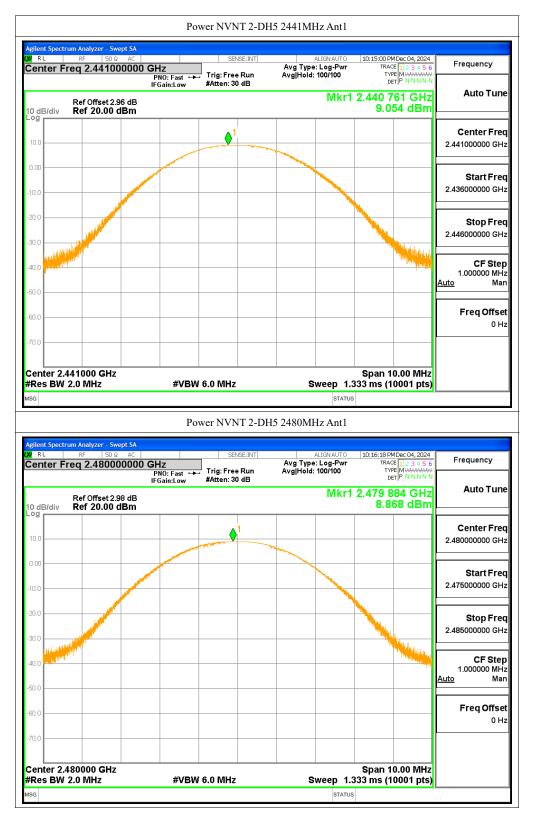




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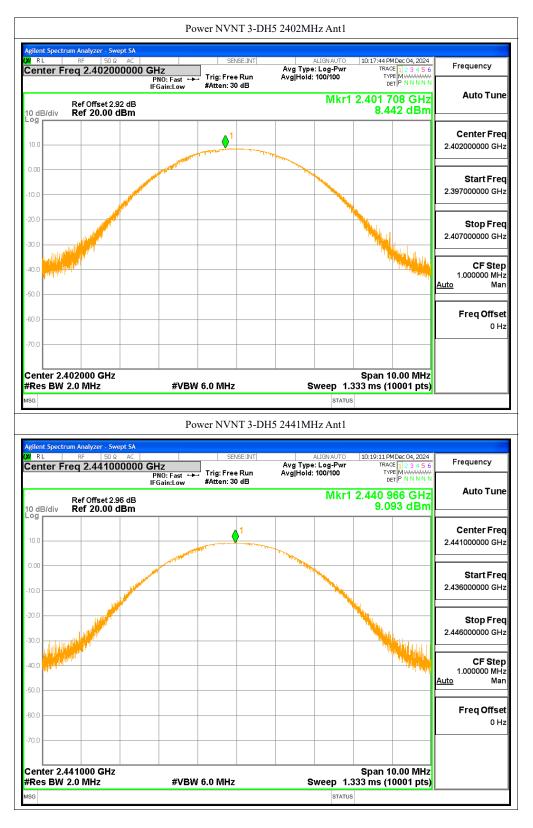




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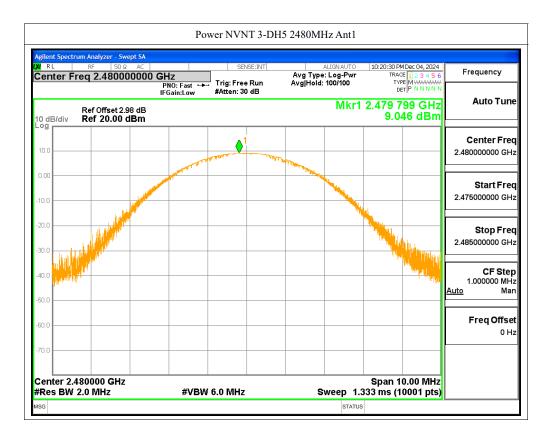




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# 9. Carrier Frequency Separation

## 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

## **Type of Modulation:**

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
			2401.83	2402.968	1.138	0.025	Pass
	1-DH5		2440.952	2441.95	0.998	0.025	Pass
			2478.992	2479.95	0.958	0.025	Pass
			2401.982	2403.162	1.18	0.025	Pass
NVNT	2-DH5	Ant1	2441.156	2441.986	0.83	0.025	Pass
			2478.962	2480.17	1.208	0.025	Pass
			2401.836	2402.986	1.15	0.025	Pass
	3-DH5		2441.17	2441.832	0.662	0.025	Pass
			2478.964	2480.17	1.206	0.025	Pass

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		Test G	raphs		
		CFS NVNT 1-DH	5 2402MHz Ant1		
Agilent Spectrum Analyzer X/ RL RF	- Swept SA 50 Ω AC	SENSE:INT	ALIGN AUTO	00-46-00 DMD 04-2024	
Center Freq 2.402			Avg Type: Log-Pwr Avg Hold:>100/100	09:46:00 PM Dec 04, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW	Frequency
	IFGain:Low	#Atten: 30 dB		401 830 GHz	Auto Tune
Ref Offse 10 dB/div Ref 20.0			WIKI 1 Z	6.351 dBm	
10.0	1		<mark>2</mark>		Center Freq
-10.0	Mar - marking		mont	mm	2.402500000 GHz
-20.0		mont		Murrey	Start Freq
-30.0					2.401500000 GHz
-40.0					
-60.0					Stop Freq 2.403500000 GHz
-70.0	-				
Center 2.402500 G #Res BW 30 kHz		W 100 kHz		Span 2.000 MHz 33 ms (1001 pts)	CF Step 200.000 kHz
MKR MODE TRC SCL	× 2.401 830 GHz	۲ Fl 6.351 dBm	INCTION FUNCTION WIDTH		<u>luto</u> Man
	2.402 968 GHz	5.546 dBm			Freq Offset
2 N 1 f 3 4 5 6 7 8					0 Hz
7 8					
9 10					
10				×	
11		HU .	STATUS	×	
11		CFS NVNT 1-DH		×	
11 MISG Agilent Spectrum Analyzer	- Swept SA		5 2441MHz Ant1		
Agilent Spectrum Analyzer	- Swept SA 50 Ω AC       1500000 GHz	SENSE:INT	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr	09:48:44 PMDec 04, 2024 TRACE 12 2 4 5 6	Frequency
Agilent Spectrum Analyzer	- Swept SA 50 Ω AC	SENSE:INT	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	09:48:44 PMDec D4, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N	
Agilent Spectrum Analyzer	- Swept SA 50 Q AC 1500000 GHz PNO: Wide C IFGain:Low 22.96 dB	SENSE:INT	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	09:48:44 PMDec 04, 2024 TRACE 12 2 4 5 6	Frequency Auto Tune
Agilent Spectrum Analyzer MRL RF T Center Freq 2.44 Ref Offse	- Swept SA 50 Q AC 1500000 GHz PNO: Wide C IFGain:Low 22.96 dB	SENSE:INT	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	09:48:44 PMDec 04, 2024 TRACE [2 3 3 4 5 6 TYPE MAMMAN DET P N N N N 2019 S2 GHZ	Auto Tune
Agilent Spectrum Analyzer	- Swept SA 50 Q AC 1500000 GHz PNO: Wide C IFGain:Low 22.96 dB	SENSE:INT	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	09:48:44 PMDec 04, 2024 TRACE [2 3 3 4 5 6 TYPE MAMMAN DET P N N N N 2019 S2 GHZ	
Apilent Spectrum Analyzer	- Swept SA 50 Q AC 1500000 GHz PNO: Wide C IFGain:Low 22.96 dB	SENSE:INT	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	09:48:44 PMDec 04, 2024 TRACE [2 3 3 4 5 6 TYPE MAMMAN DET P N N N N 2019 S2 GHZ	Auto Tune Center Freq 2.441500000 GHz
Agilent Spectrum Analyzer M RL RF T Center Freq 2.44 Ref Offse 10.0 10.0 10.0 10.0 10.0 10.0	- Swept SA 50 Q AC 1500000 GHz PNO: Wide C IFGain:Low 22.96 dB	SENSE:INT	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	09:48:44 PMDec 04, 2024 TRACE [2 3 3 4 5 6 TYPE MAMMAN DET P N N N N 2019 S2 GHZ	Auto Tune Center Freq 2.441500000 GHz Start Freq
11	- Swept SA 50 Q AC 1500000 GHz PNO: Wide C IFGain:Low 22.96 dB	SENSE:INT	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	09:48:44 PMDec 04, 2024 TRACE [2 3 3 4 5 6 TYPE MAMMAN DET P N N N N 2019 S2 GHZ	Auto Tune Center Freq 2.441500000 GHz
11           Agilent Spectrum Analyzer           XI         RF           Center Freq 2.44'           Log           10.0           0.00           -20.0	- Swept SA 50 Q AC 1500000 GHz PNO: Wide C IFGain:Low 22.96 dB	SENSE:INT	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	09:48:44 PMDec 04, 2024 TRACE [2 3 3 4 5 6 TYPE MAMMAN DET P N N N N 2019 S2 GHZ	Auto Tune Center Freq 2.441500000 GHz Start Freq 2.440500000 GHz Stop Freq
11	- Swept SA 50 Q AC 1500000 GHz PNO: Wide C IFGain:Low 22.96 dB	SENSE:INT	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	09:48:44 PMDec 04, 2024 TRACE [2 3 3 4 5 6 TYPE MAMMAN DET P N N N N 2019 S2 GHZ	Auto Tune Center Freq 2.441500000 GHz Start Freq 2.440500000 GHz
II         Agilent Spectrum Analyzer           XI         RF         I           Center Freq 2.44'         Ref Offse           10 dB/div         Ref Offse           10.0	- Swept SA 50 Q AC PNO: Wide C IFGain:Low st 2.96 dB 00 dBm 	SENSE:INT Trig: Free Run #Atten: 30 dB	5 2441MHz Ant1 Augnauto Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2	09:48:44 PMDec 04, 2024 TRACE 12:3:4:5:6 TYPE IMPONING DEI PMPONING 440 952 GHz 6.890 dBm 7 7 7 7 7 7 7 7 7 7 7 7 7	Auto Tune Center Freq 2.441500000 GHz Start Freq 2.440500000 GHz Stop Freq 2.442500000 GHz
11         Agilent Spectrum Analyzer           Agilent Spectrum Analyzer         Ref Offse           Center Freq 2.44'         Ref Offse           10 dB/div         Ref Offse           10.0         Ref Offse <t< td=""><td>- Swept SA 50 Q AC PNO: Wide C IFGain:Low st 2.96 dB 00 dBm </td><td>SENSE:INT Trig: Free Run #Atten: 30 dB</td><td>5 2441MHz Ant1 AUGNAUTO Avg Type: Log-Pwr Avg Hold&gt;100/100 Mkr1 2</td><td>09:48:44 PMDec 04, 2024 TRACE 23 4 5 6 TYPE MANNAN DEI P MANNAN 440 952 GHz 6.890 dBm 7 7 7 7 7 7 7 7 7 7 7 7 7</td><td>Auto Tune Center Freq 2.441500000 GHz Start Freq 2.440500000 GHz Stop Freq 2.442500000 GHz</td></t<>	- Swept SA 50 Q AC PNO: Wide C IFGain:Low st 2.96 dB 00 dBm 	SENSE:INT Trig: Free Run #Atten: 30 dB	5 2441MHz Ant1 AUGNAUTO Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2	09:48:44 PMDec 04, 2024 TRACE 23 4 5 6 TYPE MANNAN DEI P MANNAN 440 952 GHz 6.890 dBm 7 7 7 7 7 7 7 7 7 7 7 7 7	Auto Tune Center Freq 2.441500000 GHz Start Freq 2.440500000 GHz Stop Freq 2.442500000 GHz
11	- Swept SA 50 Q AC PNO: Wide C IFGain:Low st 2.96 dB 00 dBm 	SENSE:INT Trig: Free Run #Atten: 30 dB	5 2441MHz Ant1 AUGNAUTO Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2	09:48:44 PMDec 04, 2024 TRACE [] 2 3 4 5 TRACE [] 2 3 4 5 TOPE P NNNN 440 952 GHz 6.890 dBm 440 952 GHz 6.890 dBm 5 5 5 5 5 5 5 5 5 5 5 5 5	Auto Tune Center Freq 2.441500000 GHz Start Freq 2.440500000 GHz 2.442500000 GHz 2.442500000 GHz 2.442500000 GHz 2.00.000 kHz 200.000 kHz Man
11	- Swept SA 50 Q AC PNO: Wide C IFGain:Low t 2.96 dB 00 dBm 	SENSE:INT Trig: Free Run #Atten: 30 dB	5 2441MHz Ant1 AUGNAUTO Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2	09:48:44 PMDec 04, 2024 TRACE [] 2 3 4 5 TRACE [] 2 3 4 5 TOPE P NNNN 440 952 GHz 6.890 dBm 440 952 GHz 6.890 dBm 5 5 5 5 5 5 5 5 5 5 5 5 5	Auto Tune Center Freq 2.441500000 GHz Start Freq 2.440500000 GHz 2.442500000 GHz 2.442500000 GHz 2.442500000 GHz 2.00.000 kHz 200.000 kHz 200.000 kHz 200.000 kHz 200.000 kHz
11	- Swept SA 50 Q AC PNO: Wide C IFGain:Low t 2.96 dB 00 dBm 	SENSE:INT Trig: Free Run #Atten: 30 dB	5 2441MHz Ant1 AUGNAUTO Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2	09:48:44 PMDec 04, 2024 TRACE [] 2 3 4 5 TRACE [] 2 3 4 5 TOPE P NNNN 440 952 GHz 6.890 dBm 440 952 GHz 6.890 dBm 5 5 5 5 5 5 5 5 5 5 5 5 5	Auto Tune Center Freq 2.441500000 GHz Start Freq 2.440500000 GHz 2.442500000 GHz 2.442500000 GHz 2.442500000 GHz 2.00.000 kHz 200.000 kHz Man
11	- Swept SA 50 Q AC PNO: Wide C IFGain:Low t 2.96 dB 00 dBm 	SENSE:INT Trig: Free Run #Atten: 30 dB	5 2441MHz Ant1 AUGNAUTO Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2	09:48:44 PMDec 04, 2024 TRACE [] 2 3 4 5 TRACE [] 2 3 4 5 TOPE P NNNN 440 952 GHz 6.890 dBm 440 952 GHz 6.890 dBm 5 5 5 5 5 5 5 5 5 5 5 5 5	Auto Tune Center Freq 2.441500000 GHz Start Freq 2.440500000 GHz 2.442500000 GHz 2.442500000 GHz 2.442500000 GHz 2.00.000 kHz 200.000 kHz 200.000 kHz 200.000 kHz 200.000 kHz
11         Agilent Spectrum Analyzer           RL         RF           Center Freq 2.44*           Conter Freq 2.44*           10 dB/div         Ref Offse           10 dB/div         Ref 20.1           -0 dB/div         Ref 20.1	- Swept SA 50 Q AC PNO: Wide C IFGain:Low t 2.96 dB 00 dBm 	SENSE:INT Trig: Free Run #Atten: 30 dB	5 2441MHz Ant1 AUGNAUTO Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2	09:48:44 PMDec 04, 2024 TRACE [] 2 3 4 5 TRACE [] 2 3 4 5 TOPE P NNNN 440 952 GHz 6.890 dBm 440 952 GHz 6.890 dBm 5 5 5 5 5 5 5 5 5 5 5 5 5	Auto Tune Center Freq 2.441500000 GHz Start Freq 2.440500000 GHz 2.442500000 GHz 2.442500000 GHz 2.442500000 GHz 2.00.000 kHz 200.000 kHz 200.000 kHz 200.000 kHz 200.000 kHz

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Auto Tur           Auto Tur           Center Fre           2.479500000 GF           Start Fre           2.478500000 GF           Stop Fre           2.480500000 GF           CF Stop Fre           200.000 kF           Auto Ma
Auto Tur           Center Fre           2.479500000 GF           Start Fre           2.478500000 GF           2.480500000 GF
Auto Tur           Center Fre           2.47950000 GF           Start Fre           2.47850000 GF           Stop Fre           2.48050000 GF           2.48050000 GF           2.48050000 GF           2.48050000 GF
Center Fre 2.479500000 GF 2.478500000 GF 2.478500000 GF 2.480500000 GF 2.480500000 GF
2.47950000 GH Start Fre 2.47850000 GH 2.48050000 GH 2.48050000 GH 2.48050000 GH
2.47950000 GH Start Fre 2.47850000 GH 2.48050000 GH 2.48050000 GH 2.48050000 GH
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2.47850000 GF Stop Fre 2.48050000 GF 2.48050000 GF 2.48050000 GF 2.48050000 GF
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2.480500000 GF Z CF Ste 200.000 kF
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2.402500000 GH
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Stop Fre
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Z CF Ste 200.000 kH
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		JFS NVNI 2-DF	15 2441MHz Ant1		
gilent Spectrum Analyzer - !					
RL RF 50 Center Freq 2.441		SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	09:55:56 PM Dec 04, 2024 TRACE 1 2 3 4 5 6	Frequency
•	PNO: Wide C IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold:>100/100	DET P N N N N	
Ref Offset			Mkr1	2.441 156 GHz	Auto Tun
10 dB/div Ref 20.00	0 dBm			4.288 dBm	
10.0	<b>∲</b> '			0	Center Fre
-10.0	many	mm	mark	Ammun	2.441500000 GH
-20.0					
-30.0					Start Fre 2.440500000 GH
40.0					
-50.0					Stop Fre
-70.0					2.442500000 GH
Center 2.441500 GH	17			Span 2.000 MHz	05.010
Res BW 30 kHz		№ 100 kHz	Sweep 2.	133 ms (1001 pts)	CF Ste 200.000 kH
MKR MODE TRC SCL	× 2.441 156 GHz	Y 4.288 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Ma
2 N 1 f 3	2.441 986 GHz	4.720 dBm			Freq Offse
4 5					он
6 7 8					
8					
10 11				~	
<					
ISG			071710	>	
		CFS NVNT 2-DF	status 15 2480MHz Ant 1		
gilent Spectrum Analyzer - 5 4 R.L RF 50	Swept SA	SENSE:INT	H5 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid>100/100	09:57:30 PMDec 04, 2024 TRACE 1 2 3 4 5 6 TYPE MYWWWWW DET P N N N N	Frequency
gjjent Spectrum Analyzer - 3 g RL RF 55 Center Freq 2.479 Ref Offset 10 dB/div Ref 20.00	Swept SA IR AC 500000 GHz PNO: Wide C IFGain:Low 2.98 dB	SENSE:INT	H5 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid>100/100	09:57:30 PMDec 04, 2024 TRACE 12 3 4 5 6 TYPE M WWWWWW	Frequency Auto Tun
gjjent Spectrum Analyzer - 3 g RL RF 55 Center Freq 2.479 Ref Offset 10 dB/div Ref 20.00	Swept SA IR AC 500000 GHz PNO: Wide C IFGain:Low 2.98 dB	SENSE:INT	H5 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid>100/100	09:57:30 PMDec 04, 2024 TRACE [] 2 3 4 5 6 TYPE MMMMMMM DET P N N N N 2.478 962 GHz	Auto Tun
glient Spectrum Analyzer - 3 d RL RF SC Center Freq 2.479: Ref Offset 10 dB/div Ref 20.00 -9	Swept SA IR AC 500000 GHz PNO: Wide C IFGain:Low 2.98 dB	SENSE:INT	H5 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid>100/100	09:57:30 PMDec 04, 2024 TRACE [] 2 3 4 5 6 TYPE MMMMMMM DET P N N N N 2.478 962 GHz	
gilent Spectrum Analyzer - 4           d         R         SC           center Freq 2.479:         SC           0         B/div         Ref Offset           0         B/div         Ref 20.00           00         000         000           10.00         000         000	Swept SA IR AC 500000 GHz PNO: Wide C IFGain:Low 2.98 dB	SENSE:INT	H5 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid>100/100	09:57:30 PMDec 04, 2024 TRACE [] 2 3 4 5 6 TYPE MMMMMMM DET P N N N N 2.478 962 GHz	Auto Tun Center Fre
ellent Spectrum Analyzer - 4 a RL RF 50 Center Freq 2.479: Ref Offset 10 dB/div Ref 20.01 -09 -00 -00 -00 -00 -00 -00 -00	Swept SA IR AC 500000 GHz PNO: Wide C IFGain:Low 2.98 dB	SENSE:INT	H5 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid>100/100	09:57:30 PMDec 04, 2024 TRACE [] 2 3 4 5 6 TYPE MMMMMMM DET P N N N N 2.478 962 GHz	Auto Tun Center Fre 2.479500000 GH Start Fre
ellent Spectrum Analyzer - 4 d RL RF 50 Center Freq 2.479: Ref Offset 10 dB/div Ref 20.01 - 00 -	Swept SA IR AC 500000 GHz PNO: Wide C IFGain:Low 2.98 dB	SENSE:INT	15 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid>100/100	09:57:30 PMDec 04, 2024 TRACE [] 2 3 4 5 6 TYPE MMMMMMM DET P N N N N 2.478 962 GHz	Auto Tun Center Fre 2.479500000 GH
Ref         Offset           0         RF         50           2         Center Freq 2.479         50           0         B/div         Ref Offset           10         B/div         Ref 20.00           00         0.00         0.00           10.0         0.00         0.00           10.0         0.00         0.00           10.0         0.00         0.00           10.0         0.00         0.00           10.0         0.00         0.00           10.0         0.00         0.00           10.0         0.00         0.00           10.0         0.00         0.00           10.0         0.00         0.00           10.0         0.00         0.00           10.0         0.00         0.00           10.0         0.00         0.00	Swept SA IR AC 500000 GHz PNO: Wide C IFGain:Low 2.98 dB	SENSE:INT	15 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid>100/100	09:57:30 PMDec 04, 2024 TRACE [] 2 3 4 5 6 TYPE MMMMMMM DET P N N N N 2.478 962 GHz	Auto Tun Center Fre 2.47950000 GH Start Fre 2.478500000 GH
Ref         Offset           0         RF         50           2         Center Freq 2.479         50           0         B/div         Ref Offset           10         B/div         Ref 20.01           00         0.00         0.00           10.0         0.00         0.00           10.0         0.00         0.00           10.0         0.00         0.00           10.0         0.00         0.00           0.00         0.00         0.00           0.00         0.00         0.00           0.00         0.00         0.00           0.00         0.00         0.00           0.00         0.00         0.00           0.00         0.00         0.00           0.00         0.00         0.00           0.00         0.00         0.00           0.00         0.00         0.00           0.00         0.00         0.00           0.00         0.00         0.00           0.00         0.00         0.00           0.00         0.00         0.00           0.00         0.00         0.00           <	Swept SA IR AC 500000 GHz PNO: Wide C IFGain:Low 2.98 dB	SENSE:INT	15 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid>100/100	09:57:30 PMDec 04, 2024 TRACE [] 2 3 4 5 6 TYPE MMMMMMM DET P N N N N 2.478 962 GHz	Auto Tun Center Fre 2.479500000 GH Start Fre
RL         RF         SS           2 RL         RF         SS           2 Center Freq 2.479:         Ref Offset           10 dB/div         Ref 2.0.01           -09         -00           -00         -00           -00         -00           -00         -00           -00         -00           -00         -00           -00         -00           -00         -00           -00         -00           -00         -00           -00         -00           -00         -00           -00         -00           -00         -00           -00         -00           -00         -00	Swept SA Q AC  PNO: Wide C IFGain:Low 2.98 dB D dBm	SENSE:INT	15 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hoid>100/100	09:57:30 PMDec 04, 2024 TRACE [] 2 3 4 5 6 TYPE MMMMMMM Det P NNNN 2.478 962 GHz 2.834 dBm	Auto Tun Center Fre 2.479500000 GH Start Fre 2.478500000 GH Stop Fre
Ref Offset           10         RF         SC           2         Ref Offset         SC           10         B/div         Ref Offset           10         0         0           10         0         0           10         0         0           10         0         0           10         0         0           10         0         0           10         0         0           10         0         0           10         0         0           10         0         0           10         0         0           100         0         0           100         0         0           100         0         0           100         0         0           100         0         0           100         0         0           100         0         0           100         0         0           100         0         0           100         0         0           100         0         0           100	In AC Store of the second sec	SENSE:INT	IS 2480MHz Ant1  AUGNAUTO Avg Type: Log-Pwr Avg Hold>100/100  Mkr1	09:57:30 PMDec 04, 2024 TRACE 12:34:5 6 TYPE MWWWWWW DET P NNNN 2.478 962 GHz 2.834 dBm 2.834 dBm 2.834 dBm 3.000 MHz	Auto Tun Center Fre 2.479500000 GH Start Fre 2.478500000 GH Stop Fre 2.480500000 GH
regilent Spectrum Analyzer - 1           @ RL         RF         SC           Center Freq 2.479:         Ref Offset         SC           10         -09         -01         -02           10         -09         -01         -02           10         -02         -02         -02           20         -03         -03         -03           20         -03         -03         -03           20         -03         -03         -03           20         -03         -03         -03           20         -03         -03         -03           20         -03         -03         -03           20         -03         -03         -03           20         -03         -03         -03           20         -03         -03         -03           20         -03         -03         -03           20         -03         -03         -03           20         -03         -03         -03           20         -03         -03         -03           20         -03         -03         -03           20         -03 <td>In AC Store of the second sec</td> <td>SENSE:INT</td> <td>IS 2480MHz Ant1  AUGNAUTO Avg Type: Log-Pwr Avg Hold&gt;100/100  Mkr1</td> <td>09:57:30 PMDec 04, 2024 TRACE [] 2 3 4 5 6 TYPE MMMMMMM Det P NNNN 2.478 962 GHz 2.834 dBm</td> <td>Auto Tun Center Fre 2.479500000 GH 2.478500000 GH Stop Fre 2.480500000 GH</td>	In AC Store of the second sec	SENSE:INT	IS 2480MHz Ant1  AUGNAUTO Avg Type: Log-Pwr Avg Hold>100/100  Mkr1	09:57:30 PMDec 04, 2024 TRACE [] 2 3 4 5 6 TYPE MMMMMMM Det P NNNN 2.478 962 GHz 2.834 dBm	Auto Tun Center Fre 2.479500000 GH 2.478500000 GH Stop Fre 2.480500000 GH
gilent Spectrum Analyzer - 4           d RL         RF         SC           Center Freq 2.479:         Ref Offset         SC           10 dB/div         Ref Offset         Ref Offset           20 dB/div         R	In AC Store of the second sec	SENSE:INT	IS 2480MHz Ant1  Avg Type: Log-Pwr Avg Hold>100/100  Mkr1  Mkr1  Sweep 2.	09:57:30 PMDec 04, 2024 TRACE 1: 33 4 5 6 TYPE MAXMMON DET PINNINN 2.478 962 GHz 2.834 dBm 2 2 4 4 5 5 5 5 5 7 7 7 7 8 7 7 7 7 7 7 7 7 7 7	Auto Tun Center Fre 2.479500000 GH Start Fre 2.478500000 GH Stop Fre 2.480500000 GH CF Stej 200.000 kH Auto Ma
Ref Offset         Ref Offset           0 dB/div         Ref Offset           0 dB/div         Ref 20.01           0 d	Swept SA  Q AC PNO: Wide C IFGain:Low 2.98 dB D dBm I I I I I I I I I I I I I I I I I I I	SENSE:INT Trig: Free Run #Atten: 30 dB	IS 2480MHz Ant1  Avg Type: Log-Pwr Avg Hold>100/100  Mkr1  Mkr1  Sweep 2.	09:57:30 PMDec 04, 2024 TRACE 1: 33 4 5 6 TYPE MAXMMON DET PINNINN 2.478 962 GHz 2.834 dBm 2 2 4 4 5 5 5 5 5 7 7 7 7 8 7 7 7 7 7 7 7 7 7 7	Auto Tun           Center Fre           2.479500000 GH           Start Fre           2.478500000 GH           Stop Fre           2.480500000 GH           CF Stej           200.000 KH           Auto           Freq Offse
Ref Offset         Ref Offset           0 dB/div         Ref Offset           0 dB/div         Ref 20.01           0 d	Swept SA  Q AC PNO: Wide C IFGain:Low 2.98 dB D dBm I I I I I I I I I I I I I I I I I I I	SENSE:INT Trig: Free Run #Atten: 30 dB	IS 2480MHz Ant1  Avg Type: Log-Pwr Avg Hold>100/100  Mkr1  Mkr1  Sweep 2.	09:57:30 PMDec 04, 2024 TRACE 1: 33 4 5 6 TYPE MAXMMON DET PINNINN 2.478 962 GHz 2.834 dBm 2 2 4 4 5 5 5 5 5 7 7 7 7 8 7 7 7 7 7 7 7 7 7 7	Auto Tun Center Fre 2.479500000 GH Start Fre 2.478500000 GH Stop Fre 2.480500000 GH CF Stej 200.000 kH Auto Ma
gilent Spectrum Analyzer - 4           Ref         SC           Center Freq 2.479:         SC           O dB/div         Ref 20.01           Og         Ref 20.01           Out         Ref 20.01           Center 2.479500 GH           #Res BW 30 KHz           Model Fride Sci         Ref 20.01           A         F           S         S           S         S <td>Swept SA  Q AC PNO: Wide C IFGain:Low 2.98 dB D dBm I I I I I I I I I I I I I I I I I I I</td> <td>SENSE:INT Trig: Free Run #Atten: 30 dB</td> <td>IS 2480MHz Ant1  Avg Type: Log-Pwr Avg Hold&gt;100/100  Mkr1  Mkr1  Sweep 2.</td> <td>09:57:30 PMDec 04, 2024 TRACE 1: 33 4 5 6 TYPE MAXMMON DET PINNINN 2.478 962 GHz 2.834 dBm 2 2 4 4 5 5 5 5 5 7 7 7 7 8 7 7 7 7 7 7 7 7 7 7</td> <td>Auto Tun           Center Fre           2.479500000 GH           Start Fre           2.478500000 GH           Stop Fre           2.480500000 GH           CF Stej           200.000 KH           Auto           Freq Offse</td>	Swept SA  Q AC PNO: Wide C IFGain:Low 2.98 dB D dBm I I I I I I I I I I I I I I I I I I I	SENSE:INT Trig: Free Run #Atten: 30 dB	IS 2480MHz Ant1  Avg Type: Log-Pwr Avg Hold>100/100  Mkr1  Mkr1  Sweep 2.	09:57:30 PMDec 04, 2024 TRACE 1: 33 4 5 6 TYPE MAXMMON DET PINNINN 2.478 962 GHz 2.834 dBm 2 2 4 4 5 5 5 5 5 7 7 7 7 8 7 7 7 7 7 7 7 7 7 7	Auto Tun           Center Fre           2.479500000 GH           Start Fre           2.478500000 GH           Stop Fre           2.480500000 GH           CF Stej           200.000 KH           Auto           Freq Offse
glient Spectrum Analyzer - 1           Ref         Stress         Stress           Center Freq 2.479:         Ref Offset         Stress           10         B/div         Ref 20.01         Stress           0         0	Swept SA  Q AC PNO: Wide C IFGain:Low 2.98 dB D dBm I I I I I I I I I I I I I I I I I I I	SENSE:INT Trig: Free Run #Atten: 30 dB	IS 2480MHz Ant1  Avg Type: Log-Pwr Avg Hold>100/100  Mkr1  Mkr1  Sweep 2.	09:57:30 PMDec 04, 2024 TRACE 1: 33 4 5 6 TYPE MAXMMON DET PINNINN 2.478 962 GHz 2.834 dBm 2 2 4 4 5 5 5 5 5 7 7 7 7 8 7 7 7 7 7 7 7 7 7 7	Auto Tun           Center Fre           2.479500000 GH           Start Fre           2.478500000 GH           Stop Fre           2.480500000 GH           CF Stej           200.000 KH           Auto           Freq Offse
glient Spectrum Analyzer -1           RL         RF         SC           Center Freq 2.479:         Sc         Sc           O dB/div         Ref Offset         Sc           0 dB/div         Ref 20.01         Sc           0 dB/div         Ref 20.01         Sc           0 dB/div         Ref 20.01         Sc         Sc           0 dB/div         Ref 20.01         Sc         Sc           0 dB/div         Ref 20.01         Sc         Sc           0 d0	Swept SA  Q AC PNO: Wide C IFGain:Low 2.98 dB D dBm I I I I I I I I I I I I I I I I I I I	SENSE:INT Trig: Free Run #Atten: 30 dB	IS 2480MHz Ant1  Avg Type: Log-Pwr Avg Hold>100/100  Mkr1  Mkr1  Sweep 2.	09:57:30 PMDec 04, 2024 TRACE 1: 33 4 5 6 TYPE MAXMMON DET PINNINN 2.478 962 GHz 2.834 dBm 2 2 4 4 5 5 5 5 5 7 7 7 7 8 7 7 7 7 7 7 7 7 7 7	Auto Tun           Center Fre           2.479500000 GH           Start Fre           2.478500000 GH           Stop Fre           2.480500000 GH           CF Stej           200.000 KH           Auto           Freq Offse

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		CISINVINI 5-DI	H5 2402MHz Ant1		
Agilent Spectrum Analyzer -					
X RL RF 5 Center Freq 2.402		SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	10:00:15 PM Dec 04, 2024 TRACE 1 2 3 4 5 6	Frequency
	PNO: Wide IFGain:Lov		Avg Hold:>100/100	DET P N N N N N	A
Ref Offset			Mkr1	2.401 836 GHz -0.124 dBm	Auto Tune
10 dB/div Ref 20.0	0 dBm		02	-0.124 UBII	
0.00	1			$\wedge$	Center Free 2.402500000 GH
-10.0	vm	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	men ma	a pour from	2.402500000 GH
-20.0					Start Free
-30.0					2.401500000 GH
-40.0					
-60.0					Stop Free
-70.0					2.403500000 GH
Center 2.402500 GI	Hz			Span 2.000 MHz	CF Step
#Res BW 30 kHz	#V	'BW 100 kHz	•	.133 ms (1001 pts)	200.000 kH Auto Mar
MKR MODE TRC SCL	× 2.401 836 GHz	-0.124 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	
2 N 1 f	2.402 986 GHz	5.277 dBm			Freq Offse
4 5 6 7 8					0 H
7					
9 10					
11					
1				<u> </u>	
	Swent SA	CFS NVNT 3-DF	status 15 2441MHz Ant1	3	
Agilent Spectrum Analyzer - XI RL RF 5	0 Ω AC 500000 GHz	SENSE:INT	H5 2441MHz Ant1	10:03:24 PMDec 04, 2024 TRACE 12:34 5 6 TYPE MWWWWW	Frequency
Agilent Spectrum Analyzer - MRL RF 5 Center Freq 2.441	D Ω AC 500000 GHz PNO: Wide IFGain:Lov	SENSE:INT	H5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr AvgHold:>100/100	10:03:24 PMDec 04, 2024 TRACE 1 2 3 4 5 6	Frequency Auto Tuno
Agilent Spectrum Analyzer - RL RF 5 Center Freq 2.441 Ref Offset 10 dB/div Ref 20.0	0 Q AC 500000 GHz PNO: Wide IFGain:Lov : 2.96 dB	SENSE:INT	H5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr AvgHold:>100/100	10:03:24 PMDec 04, 2024 TRACE 12:3 4 5 6 TYPE MWWWWW DET P N N N N	
Agilent Spectrum Analyzer - 20 RL RF 5 Center Freq 2.441 Ref Offset	0 Q AC 500000 GHz PNO: Wide IFGain:Lov : 2.96 dB	SENSE:INT	H5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr AvgHold:>100/100	10:03:24 PMDec 04, 2024 TRACE 12 3 4 5 6 TYPE MWWWWWW DET PINNINN 2.441 170 GHz	
Agilent Spectrum Analyzer - X RL RF 5 Center Freq 2.441 10 dB/div Ref 20.0 10.0 0.00	0 Q AC 500000 GHz PNO: Wide IFGain:Lov : 2.96 dB	SENSE:INT	H5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr AvgHold:>100/100	10:03:24 PMDec 04, 2024 TRACE 11:23 4 5 6 TYPE MWWWWWW DET P.N.N.N.N 2.441 170 GHz	Auto Tune
Agilent Spectrum Analyzer - X RL RF 5 Center Freq 2.441 10 dB/div Ref Offset 10 dB/div Ref 20.0 -0.0 -10.0	0 Q AC 500000 GHz PNO: Wide IFGain:Lov : 2.96 dB	SENSE:INT	H5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr AvgHold:>100/100	10:03:24 PMDec 04, 2024 TRACE 11:23 4 5 6 TYPE MWWWWWW DET P.N.N.N.N 2.441 170 GHz	Auto Tune Center Free 2.441500000 GH
Agilent Spectrum Analyzer - X RL RF 5 Center Freq 2.441 Ref Offset 10 dB/div Ref 20.0 0.00	0 Q AC 500000 GHz PNO: Wide IFGain:Lov : 2.96 dB	SENSE:INT	H5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr AvgHold:>100/100	10:03:24 PMDec 04, 2024 TRACE 11:23 4 5 6 TYPE MWWWWWW DET P.N.N.N.N 2.441 170 GHz	Auto Tune Center Free 2.441500000 GH: Start Free
Agilent Spectrum Analyzer - X RL RF 5 Center Freq 2.441 10 dB/div Ref 20.0 10.0 10.0 -20.0	0 Q AC 500000 GHz PNO: Wide IFGain:Lov : 2.96 dB	SENSE:INT	H5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr AvgHold:>100/100	10:03:24 PMDec 04, 2024 TRACE 11:23 4 5 6 TYPE MWWWWWW DET P.N.N.N.N 2.441 170 GHz	Auto Tune Center Free 2.441500000 GH
Agilent Spectrum Analyzer - A RL RF 5 Center Freq 2.441 Ref Offset 10 dB/div Ref 20.0 0.00 0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.0	0 Q AC 500000 GHz PNO: Wide IFGain:Lov : 2.96 dB	SENSE:INT	H5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr AvgHold:>100/100	10:03:24 PMDec 04, 2024 TRACE 11:23 4 5 6 TYPE MWWWWWW DET P.N.N.N.N 2.441 170 GHz	Auto Tune Center Free 2.441500000 GH: Start Free
RsG         Ref Offset           Agilent Spectrum Analyzer -         5           Center Freq 2.441         Ref Offset           10 dB/div Ref 20.0         0           10 0	0 Q AC 500000 GHz PNO: Wide IFGain:Lov : 2.96 dB	SENSE:INT	H5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr AvgHold:>100/100	10:03:24 PMDec 04, 2024 TRACE 12:3:4:5:6 TYPE MWWWWWW DET P.N.N.N.N 2.441 170 GHz	Auto Tune Center Free 2.441500000 GH: Start Free 2.440500000 GH:
Agilent Spectrum Analyzer - X RL RF 5 Center Freq 2.441 Ref Offset 10 dB/div Ref 20.0 10.0 	2.2.96 dB 0 dBm	SENSE:INT	H5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr AvgHold:>100/100	10:03:24 PMDec 04, 2024 TRACE [] 2 3 4 5 6 TYPE [] 2 3 4 5 6 TYPE [] NNNN 2.441 170 GHz 2.017 dBm	Auto Tune Center Free 2.441500000 GH: Start Free 2.440500000 GH: Stop Free 2.442500000 GH:
Agilent Spectrum Analyzer - Agilent Spectrum Analyzer - Ref Offset Center Freq 2.441	D R AC 500000 GHz PNO: Wide IFGain:Lov 2.96 dB 0 dBm 1 1 1 1 1 2	SENSE:INT	15 2441MHz Ant1 Augnauto Avg Type: Log-Pwr Avg]Hold>100/100 Mkr1	10:03:24 PMDec 04, 2024 TRACE 12:3:4:5:6 TYPE MWWWWWW DET P.N.N.N.N 2.441 170 GHz	Auto Tune           Center Freq           2.441500000 GH:           Start Freq           2.440500000 GH:           Stop Freq           2.442500000 GH:           CF Step           200.000 kH
Agilent Spectrum Analyzer - X RL RF 5 Center Freq 2.441 Ref Offset 10 dB/div Ref 20.0 00 00 00 00 00 00 00 00 00	0 12 AC 500000 GHz PR0: Wide IFGain:Lov 2.96 dB 0 dBm 12 4 12 4 12 #V	BW 100 kHz	15 2441MHz Ant1 Augnauto Avg Type: Log-Pwr Avg]Hold>100/100 Mkr1	10:03:24 PMDec 04, 2024 TRACE [] 23 4 5 6 TYPE [] 23 4 5 6 TYPE [] 24 5 7 TYPE []	Auto Tune Center Free 2.441500000 GH: Start Free 2.440500000 GH: Stop Free 2.442500000 GH: CF Ster
Agilent Spectrum Analyzer - X RL RF 5 Center Freq 2.441 Ref Offset 10 dB/div Ref 20.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	D R AC 500000 GHz PNO: Wide IFGain:Lov 2.96 dB 0 dBm 1 1 1 1 1 2	BW 100 kHz	15 2441MHz Ant1 Augnauto Avg Type: Log-Pwr Avg Hold>100/100 Mkr1	10:03:24 PMDec 04, 2024 TRACE [] 23 4 5 6 TYPE [] 23 4 5 6 TYPE [] 24 5 7 TYPE []	Auto Tune           Center Freq           2.441500000 GH:           Start Freq           2.440500000 GH:           Stop Freq           2.442500000 GH:           CF Step           200.000 kH:           Auto
Ref Offset           10 dB/div         Ref Offset           10 dB/div         Ref Offset           10 dB/div         Ref 20.0           000         Ref 20.0           -20.0         Ref 20.0           -30.0         Ref 20.0           -40.0         Ref 20.0           -60.0         Ref 20.0           -60.0         Ref 20.0           -70.0         Ref 20.0           -70.0<	0 12 AC 500000 GHz PNO: Wide IFGain:Lov 2.96 dB 0 dBm 1 1 1 2.296 dB 0 dBm 1 1 2.296 dB 0 dBm 1 1 2.296 dB 0 dBm 1 1 2.296 dB 0 dBm 1 1 1 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4	BW 100 kHz	15 2441MHz Ant1 Augnauto Avg Type: Log-Pwr Avg Hold>100/100 Mkr1	10:03:24 PMDec 04, 2024 TRACE [] 23 4 5 6 TYPE [] 23 4 5 6 TYPE [] 24 5 7 TYPE []	Auto Tune           Center Freq           2.441500000 GH:           Start Freq           2.440500000 GH:           Stop Freq           2.442500000 GH:           CF Step           200.000 kH
Ref Offset           10 dB/div         Ref Offset           10 dB/div         Ref Offset           10 dB/div         Ref 20.0           000         Ref 20.0           -20.0         Ref 20.0           -30.0         Ref 20.0           -40.0         Ref 20.0           -60.0         Ref 20.0           -60.0         Ref 20.0           -70.0         Ref 20.0           -70.0<	0 12 AC 500000 GHz PNO: Wide IFGain:Lov 2.96 dB 0 dBm 1 1 1 2.296 dB 0 dBm 1 1 2.296 dB 0 dBm 1 1 2.296 dB 0 dBm 1 1 2.296 dB 0 dBm 1 1 1 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4	BW 100 kHz	15 2441MHz Ant1 Augnauto Avg Type: Log-Pwr Avg Hold>100/100 Mkr1	10:03:24 PMDec 04, 2024 TRACE [] 23 4 5 6 TYPE [] 23 4 5 6 TYPE [] 24 5 7 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
Ref Offset           10 dB/div         Ref Offset           10 dB/div         Ref Offset           10 dB/div         Ref 20.0           000         Ref 20.0           -20.0         Ref 20.0           -30.0         Ref 20.0           -40.0         Ref 20.0           -60.0         Ref 20.0           -60.0         Ref 20.0           -70.0         Ref 20.0           -70.0<	0 12 AC 500000 GHz PNO: Wide IFGain:Lov 2.96 dB 0 dBm 1 1 1 2.296 dB 0 dBm 1 1 2.296 dB 0 dBm 1 1 2.296 dB 0 dBm 1 1 2.296 dB 0 dBm 1 1 1 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4	BW 100 kHz	15 2441MHz Ant1 Augnauto Avg Type: Log-Pwr Avg Hold>100/100 Mkr1	10:03:24 PMDec 04, 2024 TRACE [] 23 4 5 6 TYPE [] 23 4 5 6 TYPE [] 24 5 7 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
Agilent Spectrum Analyzer - Agilent Spectrum Analyzer - Agilent Spectrum Analyzer - Center Freq 2.441 Ref Offset 10 dB/div Ref 20.0 000 000 000 000 000 000 000	0 12 AC 500000 GHz PNO: Wide IFGain:Lov 2.96 dB 0 dBm 1 1 1 2.296 dB 0 dBm 1 1 2.296 dB 0 dBm 1 1 2.296 dB 0 dBm 1 1 2.296 dB 0 dBm 1 1 1 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4	BW 100 kHz	15 2441MHz Ant1 Augnauto Avg Type: Log-Pwr Avg Hold>100/100 Mkr1	10:03:24 PMDec 04, 2024 TRACE [] 23 4 5 6 TYPE [] 23 4 5 6 TYPE [] 24 5 7 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
Ref Offset           10 dB/div         Ref Offset           10 dB/div         Ref 20.0           10 dB/div         Image: Comparison of the set o	0 12 AC 500000 GHz PNO: Wide IFGain:Lov 2.96 dB 0 dBm 1 1 1 2.296 dB 0 dBm 1 1 2.296 dB 0 dBm 1 1 2.296 dB 0 dBm 1 1 2.296 dB 0 dBm 1 1 1 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4	BW 100 kHz	15 2441MHz Ant1 Augnauto Avg Type: Log-Pwr Avg Hold>100/100 Mkr1	10:03:24 PMDec 04, 2024 TRACE [] 2 3 4 5 6 TYPE [] 2 4 5 7 7 TYPE [] 2 4 5 7 7 TYPE [] 2 4 5 7 7 TYPE [] 2 4 5	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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enter Freq 2.479	PNO: Wide 🔾	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	10:05:14 PM Dec 04, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWWWW DET P N N N N N	Frequency
Ref Offset 0 dB/div Ref 20.00		#Atten: 30 dB	Mkr1 2	2.478 964 GHz 3.584 dBm	Auto Tun
0.0 0.00	1	y www.w	m.m.	2 mmm	<b>Center Fre</b> 2.479500000 G⊢
0.0					Start Fre 2.478500000 G⊦
0.0					<b>Stop Fre</b> 2.480500000 G⊢
enter 2.479500 GH Res BW 30 kHz		N 100 kHz	Sweep 2.1	Span 2.000 MHz 33 ms (1001 pts) FUNCTION VALUE	CF Ste 200.000 k⊢ Auto Ma
2 N 1 f 3 4 5 6 7 7 9 0	2.480 170 GHz	1.441 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	raphs		
	Нор	ping No. NVNT 1-	-DH5 2402MHz Ant1		
Agilent Spectrum Analy XI RL RF	50 Ω AC	SENSE:INT		9:46:19 PM Dec 04, 2024	Frequency
Center Freq 2.	441750000 GHz PNO: Wide IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N	Frequency
	ffset 2.92 dB		Mkr1 2.40	01 920 5 GHz	Auto Tune
	20.00 dBm			7.823 dBm	
10.0 0.00 -10.0					Center Freq 2.441750000 GHz
-20.0					<b>Start Freq</b> 2.400000000 GHz
-50.0					<b>Stop Fred</b> 2.483500000 GHz
Start 2.40000 G #Res BW 100 k MKR MODE TRC SCL		300 kHz		op 2.48350 GHz 0 ms (1001 pts)	CF Step 8.350000 MHz Auto Man
1 N 1 f 2 N 1 f 3 4 5 5 6 7 7 8 9	2.401 920 5 GHz 2.479 993 0 GHz	7.823 dBm 8.363 dBm			Freq Offset 0 Hz
10 11				<u> </u>	
K ISG		IIII	STATUS		
	Hop	ping No. NVNT 1-	-DH5 2441MHz Ant1		
Agilent Spectrum Analy					
XI RL RF Center Freq 2.	50 Ω AC 441750000 GHz PN0: Wide IFGain:Low	SENSE:INT	ALIGNAUTO ( Avg Type: Log-Pwr Avg Hold:>100/100	9:49:09 PM Dec 04, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N	Frequency
	ffset 2.96 dB 20.00 dBm		Mkr1 2.40	01 920 5 GHz 7.950 dBm	Auto Tune
10.0 0.00 -10.0					
					2.441750000 GHz Start Freq
0.00 -10.0 -20.0 -30.0					Center Free 2.441750000 GHz Start Free 2.400000000 GHz 2.400000000 GHz 2.483500000 GHz
0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Start 2.40000 G #Res BW 100 k		W 300 kHz	Sweep 8.00	0 pp 2.48350 GHz 0 ms (1001 pts)	2.441750000 GH2 Start Free 2.40000000 GH2 Stop Free 2.483500000 GH2 CF Step 8.350000 MH2
0.00         4444444           -10.0         4144444           -20.0         414444           -30.0         41444           -40.0         41444           -50.0         41444           -50.0         41444           -50.0         41444           -50.0         41444           -50.0         41444           -50.0         41444           -50.0         41444           -50.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.				0 ms (1001 pts)	2.441750000 GH2 Start Free 2.40000000 GH2 Stop Free 2.483500000 GH2 8.350000 MH2 8.350000 MH2 8.350000000 MH2 8.350000 MH2 8.3500000 MH2 8.350000 MH2 8.35000000 MH2 8.350000000 MH2 8.350000000 MH2 8.35000000 MH2 8.35000000 MH2 8.35000000 MH2 8.350000000 MH2 8.35000000 MH2 8.3500000 MH2 8.35000000 MH2 8.3500000 MH2 8.3500000 MH2 8.3500000 MH2 8.3500000 MH2 8.35000000 MH2 8.35000000 MH2 8.35000000 MH2 8.35000000 MH2 8.35000000000000000000000000000000000000
0.00         4444444           -10.0         4144444           -20.0         414444           -30.0         41444           -40.0         41444           -50.0         41444           -50.0         41444           -50.0         41444           -50.0         41444           -50.0         41444           -50.0         41444           -50.0         41444           -50.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.0         41444           -70.	Hz #VE × 2.401 920 5 GHz	Y FU 7.950 dBm	Sweep 8.00	0 ms (1001 pts)	2.441750000 GHz Start Free 2.40000000 GHz 2.483500000 GHz 2.483500000 GHz CF Step 8.350000 MHz
0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50	Hz #VE × 2.401 920 5 GHz	Y FU 7.950 dBm	Sweep 8.00	0 ms (1001 pts)	2.441750000 GHz Start Free 2.40000000 GHz 2.483500000 GHz 2.483500000 GHz 8.350000 MHz 8.350000 MHz Hard Mar Freq Offset

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RL RF Center Freq 2.4	50 Ω AC <b>141750000 GHz</b> PNO: Wide	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	09:50:38 PMDec 04, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N	Frequency
0 dB/div Ref 2	IFGain:Low fset 2.98 dB 20.00 dBm	#Atten: 30 dB	Mkr1 2.4	02 004 0 GHz 8.055 dBm	Auto Tun
<b>.09</b> 10.0 0.00					Center Fre 2.441750000 GH
20.0 /				<b>L</b> A	<b>Start Fre</b> 2.400000000 GH
50.0 60.0 70.0					<b>Stop Fre</b> 2.483500000 GH
tart 2.40000 GI Res BW 100 ki		300 kHz		top 2.48350 GHz 00 ms (1001 pts)	CF Ste 8.350000 MH
KR MODE TRC SCL 1 N 1 f 2 N 1 f	× 2.402 004 0 GHz 2.480 076 5 GHz	Y F 8.055 dBm 8.407 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Ma
3 4 5 6 7 8 9					Freq Offse 0 H
10					
				×	
		ini i	STATUS		
G	-	pping No. NVNT 2	status 2-DH5 2402MHz Ant I		
g ilent Spectrum Analy; R L RF	zer - Swept SA 50 Ω AC 441750000 GHz PNO: Wide	SENSE:INT			Frequency
glient Spectrum Analyz RL RF enter Freq 2.4 0 dB/div Ref 2	zer - Swept SA 50 Ω AC 441750000 GHz	SENSE:INT	2-DH5 2402MHz Ant I ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	09:53:21 PMDec 04, 2024 TRACE 12 3 4 5 6 TYPE Mwww.ww	
rilent Spectrum Analyz RL RF enter Freq 2.4 0 dB/div Ref 2 9 1 10.0 4 1	zer - Swept SA 50 Ω AC 441750000 GHz PNO: Wide IFGain:Low Tset 2.92 dB	SENSE:INT	2-DH5 2402MHz Ant I ALISNAUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1 2.4	09:53:21 PMDec 04, 2024 TRACE 12 3 4 5 6 TYPE MWWWWW DET P N N N N 01 837 0 GHz	Auto Tun Center Fre
silent Spectrum Analys RL RF enter Freq 2.4 0 dB/div Ref 2 9 9 0.0 0 dB/div Ref 2 9 9 1 0.0 0 dB/div Ref 2 9 9 9 1 0.0 0 0.0 0 0.0 0 0 0 0 0 0 0 0 0 0 0	zer - Swept SA 50 Ω AC 441750000 GHz PNO: Wide IFGain:Low Tset 2.92 dB	SENSE:INT Trig: Free Run #Atten: 30 dB	2-DH5 2402MHz Ant I ALISNAUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1 2.4	09:53:21 PMDec 04, 2024 TRACE 12 3 4 5 6 TYPE MWWWWW DET P N N N N 01 837 0 GHz	Auto Tun Center Fre 2.441750000 GH Start Fre
Silent Spectrum Analy;           RL         RF           enter Freq 2.4           0 dB/div         Ref 01           0.0         0           0.00         0           0.00         0           0.00         0           0.00         0           0.00         0           0.00         0           0.00         0           0.00         0           0.00         0	zer - Swept SA 50 Ω AC 441750000 GHz PNO: Wide IFGain:Low Tset 2.92 dB	SENSE:INT Trig: Free Run #Atten: 30 dB	2-DH5 2402MHz Ant I ALISNAUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1 2.4	09:53:21 PMDec 04, 2024 TRACE 12 3 4 5 6 TYPE MWWWWW DET P N N N N 01 837 0 GHz	Auto Tun Center Fre 2.441750000 GH Start Fre 2.400000000 GH Stop Fre
Silent Spectrum Analy           RL         RF           center Freq 2.4           0         B/div           0         B/div           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0 </td <td>2er - Swept SA 50 Ω AC PNO: Wide IFGain:Low Tset 2.92 dB 0.00 dBm who was a construction Factor of the second seco</td> <td>SENSE:INT</td> <td>2-DH5 2402MHz Ant I ALIONAUTO Avg Type: Log-Pwr AvgIHold&gt;100/100 Mkr1 2.4 Whith Mithungs Whith a start Sweep 8.0</td> <td>09:53:21 PMDec 04, 2024 IFACE 12 3 45 6 TYPE MWWWWW DET P NNNN 01 837 0 GHz 7.053 dBm 2 4 4 4 4 4 4 4 4 4 4 4 4 4</td> <td>Auto Tun Center Fre 2.441750000 GH Start Fre 2.400000000 GH Stop Fre 2.483500000 GH CF Ste 8.350000 MH</td>	2er - Swept SA 50 Ω AC PNO: Wide IFGain:Low Tset 2.92 dB 0.00 dBm who was a construction Factor of the second seco	SENSE:INT	2-DH5 2402MHz Ant I ALIONAUTO Avg Type: Log-Pwr AvgIHold>100/100 Mkr1 2.4 Whith Mithungs Whith a start Sweep 8.0	09:53:21 PMDec 04, 2024 IFACE 12 3 45 6 TYPE MWWWWW DET P NNNN 01 837 0 GHz 7.053 dBm 2 4 4 4 4 4 4 4 4 4 4 4 4 4	Auto Tun Center Fre 2.441750000 GH Start Fre 2.400000000 GH Stop Fre 2.483500000 GH CF Ste 8.350000 MH
Ref Oi         Ref Oi           0 dB/div         Ref Oi	2er - Swept SA 50 2 AC PN0: Wide IFGain:Low Tset 2.92 dB 0.00 dBm	SENSE:INT	2-DH5 2402MHz Ant I ALIONAUTO Avg Type: Log-Pwr AvgIHold>100/100 Mkr1 2.4 Whith Mithungs Whith a start Sweep 8.0	09:53:21 PMDec 04, 2024 TRACE  123456 TYPE MWWWWW DET  P NNNN 01 837 0 GHz 7.053 dBm 2 Mm/MM/M	Auto Tun Center Fre 2.441750000 GF 2.400000000 GF 2.483500000 GF 2.48350000 GF CF Ste 8.350000 MF Auto Ma
Ref Di dB/div Ref Di 0 dB/div Ref 2 0 dB/div Ref 2 0 dB/div Ref 2 0 d 0 d 0 d 0 dB/div Ref 2 0 d 0 d	2er - Swept SA 50 Ω AC PNO: Wide IFGain:Low Teset 2.92 dB 0.00 dBm 41750000 GHz 12 12 12 2.401 837 0 GHz	SENSE:INT Trig: Free Run #Atten: 30 dB	2-DH5 2402MHz Ant I ALIONAUTO Avg Type: Log-Pwr AvgIHold>100/100 Mkr1 2.4 Whith Mithungs Whith a start Sweep 8.0	09:53:21 PMDec 04, 2024 IFACE 12 3 45 6 TYPE MWWWWW DET P NNNN 01 837 0 GHz 7.053 dBm 2 4 4 4 4 4 4 4 4 4 4 4 4 4	Auto Tun Center Fre 2.441750000 GH Start Fre 2.400000000 GH Stop Fre 2.48350000 GH CF Ste 8.350000 MH

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	Нор	ping No. NVNT			
gilent Spectrum Analyze	<b>- Swept SA</b> 50 Ω AC	SENSE:INT	ALIGN AUTO	09:56:21 PM Dec 04, 2024	0
Center Freq 2.44		Trig: Free Run	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6	Frequency
	IFGain:Low	#Atten: 30 dB		DET P NNNNN 401 920 5 GHz	Auto Tun
10 dB/div Ref 20	et 2.96 dB .00 dBm		WIKIT 2.4	2.403 dBm	
10.0 10.0			0.0 0 . 0	2	Center Fre
0.00 XAARAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Munchersenander	a through the	Mp Anna Marana Anton	sansell and any low	2.441750000 GH
-10.0					Start Fre
-30.0				Ą	2.400000000 GH
-40.0				h h	
-60.0					Stop Fre 2.483500000 GH
-70.0					
Start 2.40000 GHz #Res BW 100 kHz		W 300 kHz		Stop 2.48350 GHz )00 ms (1001 pts)	CF Ste 8.350000 MH
MKR MODE TRC SCL	× 2.401 920 5 GHz	Y 2.403 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Ma
2 N 1 f 3	2.480 410 5 GHz	2.078 dBm			Freq Offse
4 5 6 7 8 9				E	0 H
6 7 8					
9 10					
11 <				×	
11 () //SG	Нор	ping No. NVNT 2	status 2-DH5 2480MHz Ant		
kgjient Spectrum Analyze R R R	r - Swept SA 50 Ω AC	SENSE:INT	2-DH5 2480MHz Ant ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	09:57:57 PMDec 04, 2024 TRACE 12 3 4 5 6 TYPE MWWWWW DET P N N N N	Frequency
Aglient Spectrum Analyze	- Swept SA 50 Ω AC    1750000 GHz PN0: Wide C IFGain:Low et 2.98 dB	SENSE:INT	2-DH5 2480MHz Ant ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	09:57:57 PMDec 04, 2024 TRACE 12 3 4 5 6 TYPE	Frequency Auto Tun
Aglient Spectrum Analyze	r - Swept SA 50 Ω AC     1750000 GHz PNO: Wide C IFGain:Low	SENSE:INT	2-DH5 2480MHz Ant ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2.4	1 09:57:57 PMDec 04, 2024 TRACE 12 3 4 5 6 TYPE MWWWWW DET P N N N N 101 670 0 GHZ	Auto Tun
Agilent Spectrum Analyze RL RF Center Freq 2.44 10 dB/div Ref 20 10 dB/div Ref 20 10 dB/div Ref 20	- Swept SA 50 Ω AC    1750000 GHz PN0: Wide C IFGain:Low et 2.98 dB	SENSE:INT	2-DH5 2480MHz Ant ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	1 09:57:57 PMDec 04, 2024 TRACE 12 3 4 5 6 TYPE MWWWWW DET P N N N N 101 670 0 GHZ	
Agilent Spectrum Analyze RL RF Center Freq 2.44 10 dB/div Ref 20 10 dB/div Ref 20 10 dB/div Ref 20	- Swept SA 50 Ω AC    1750000 GHz PN0: Wide C IFGain:Low et 2.98 dB	SENSE:INT	2-DH5 2480MHz Ant ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2.4	1 09:57:57 PMDec 04, 2024 TRACE 12 3 4 5 6 TYPE MWWWWW DET P N N N N 101 670 0 GHZ	Auto Tun Center Fre 2.441750000 GH
Agilent Spectrum Analyze RL RF Center Freq 2.44 Ref Offs 10 dB/div Ref 20 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	- Swept SA 50 Ω AC    1750000 GHz PN0: Wide C IFGain:Low et 2.98 dB	SENSE:INT	2-DH5 2480MHz Ant ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2.4	1 09:57:57 PMDec 04, 2024 TRACE 12 3 4 5 6 TYPE MWWWWW DET P N N N N 101 670 0 GHZ	Auto Tun Center Fre
Agilent Spectrum Analyze R RL RF Center Freq 2.44 Ref Offs 10 dB/div Ref 20 10.0 .0.0 .0.0 .0.0 .0.0	- Swept SA 50 Ω AC    1750000 GHz PN0: Wide C IFGain:Low et 2.98 dB	SENSE:INT	2-DH5 2480MHz Ant ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2.4	1 09:57:57 PMDec 04, 2024 TRACE 12 3 4 5 6 TYPE MWWWWW DET P N N N N 101 670 0 GHZ	Auto Tun Center Fre 2.441750000 GH Start Fre
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Ref         Ref           10         dB/div         Ref           200         dB/div         dB/div           200 <td>- Swept SA 50 Ω AC 11750000 GHz PNO: Wide C IFGain:Low et 2.98 dB .00 dBm .00 dBm</td> <td>SENSE:INT Trig: Free Run #Atten: 30 dB</td> <td>2-DH5 2480MHz Ant Avg Type: Log-Pwr AvgJHold&gt;100/100 Mkr1 2.4 Mkr1 2.4</td> <td>1 109:57:57 PMDec 04, 2024 TRACE 12:34 5 6 TYPE NNNN 101 670 0 GHz 2.162 dBm 2.162 dBm 2.162 dBm 3.162 dBm 3.162</td> <td>Auto Tun Center Fre 2.441750000 GH 2.400000000 GH Stop Fre 2.483500000 GH</td>	- Swept SA 50 Ω AC 11750000 GHz PNO: Wide C IFGain:Low et 2.98 dB .00 dBm .00 dBm	SENSE:INT Trig: Free Run #Atten: 30 dB	2-DH5 2480MHz Ant Avg Type: Log-Pwr AvgJHold>100/100 Mkr1 2.4 Mkr1 2.4	1 109:57:57 PMDec 04, 2024 TRACE 12:34 5 6 TYPE NNNN 101 670 0 GHz 2.162 dBm 2.162 dBm 2.162 dBm 3.162	Auto Tun Center Fre 2.441750000 GH 2.400000000 GH Stop Fre 2.483500000 GH
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enter Freq 2.4	141750000 GHz PNO: Wide C 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
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MKR         MODE         TRC         SCL           1         N         1         f           2         N         1         f           3         4         -         -           5         -         -         -           6         -         -         7         -	X 2.401 920 5 GHz 2.480 327 0 GHz	Y FL 4.181 dBm 2.203 dBm	NCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Ma FreqOffse 0 H

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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

#### **Type of Modulation:**

Condition	Mode	Frequency	Antenna	Pulse Time	Total Dwell	Burst	Period Time	Limit	Verdict
		(MHz)		(ms)	Time (ms)	Count	(ms)	(ms)	
		2402		2.872	295.816	103	31600	400	Pass
	1-DH5	2441		2.873	344.76	120	31600	400	Pass
		2480		2.873	310.284	108	31600	400	Pass
		2402		2.875	319.125	111	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.874	307.518	107	31600	400	Pass
		2480		2.887	300.248	104	31600	400	Pass
		2402		2.88	328.32	114	31600	400	Pass
	3-DH5	2441		2.881	302.505	105	31600	400	Pass
		2480	]	2.888	340.784	118	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 625µs 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.

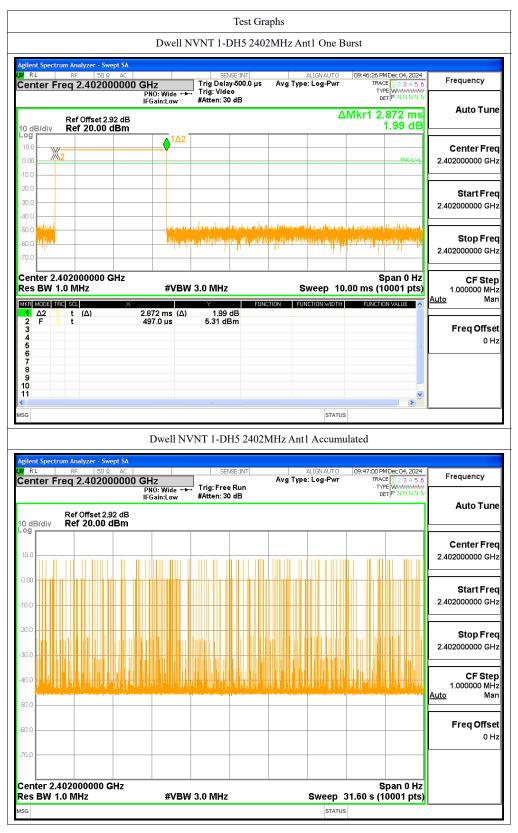
A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

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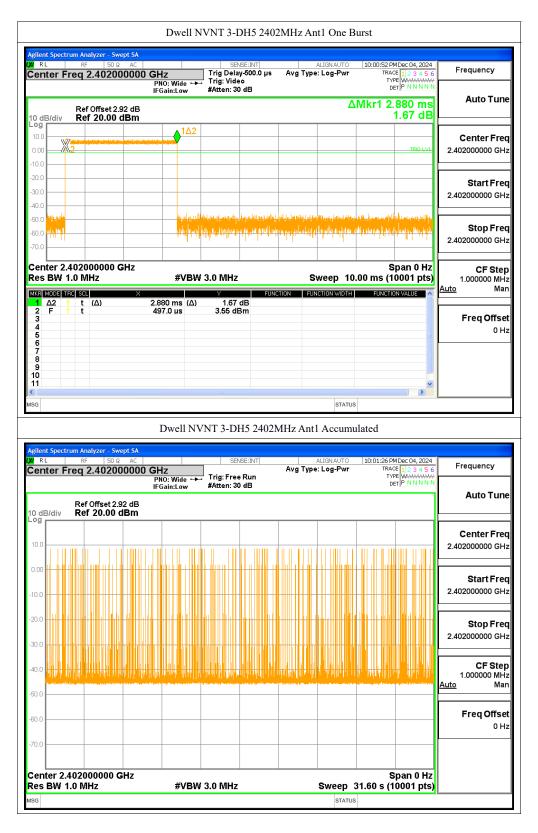




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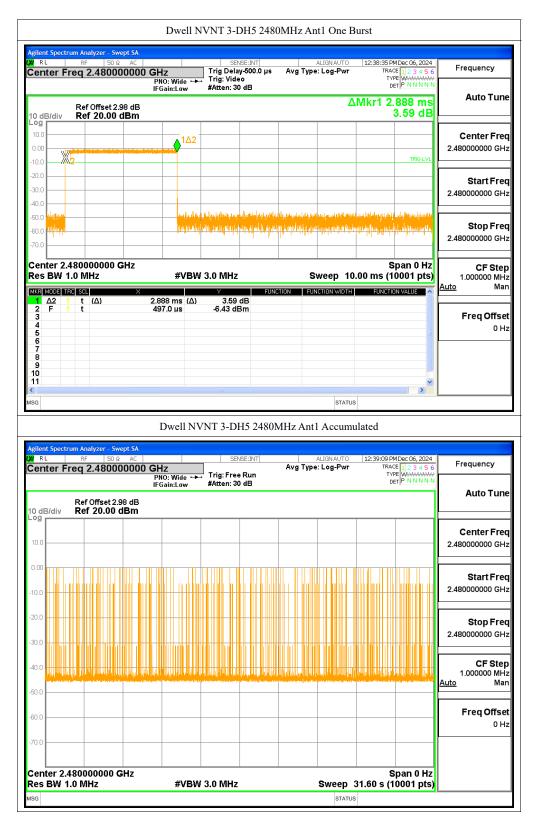




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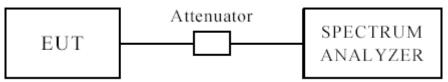
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## 12 Out of Band Measurement

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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Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
	1-DH5	2402		No-Hopping	-38.25	-20	Pass
	1-015	2480		No-Hopping	-51.11	-20	Pass
		2402	A nt1	No-Hopping	-41.78	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-52.58	-20	Pass
		2402		No-Hopping	-43.91	-20	Pass
	3-DH5	2480		No-Hopping	-53.97	-20	Pass

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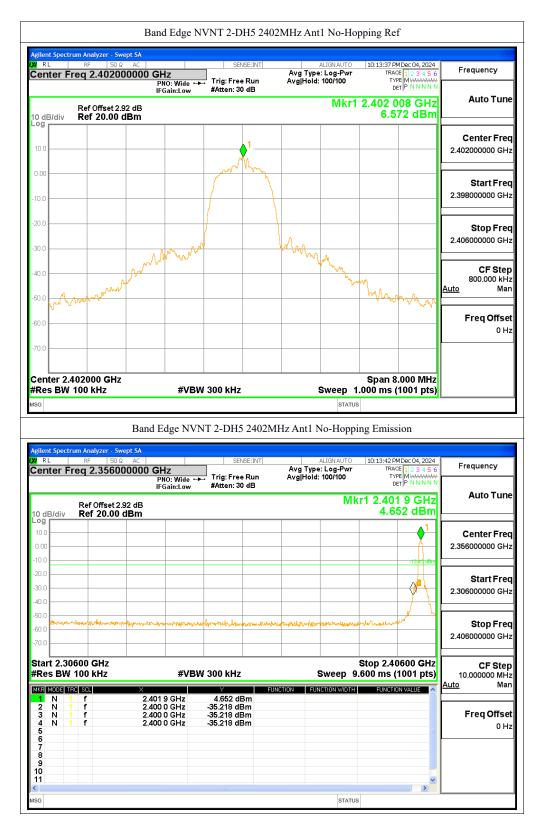




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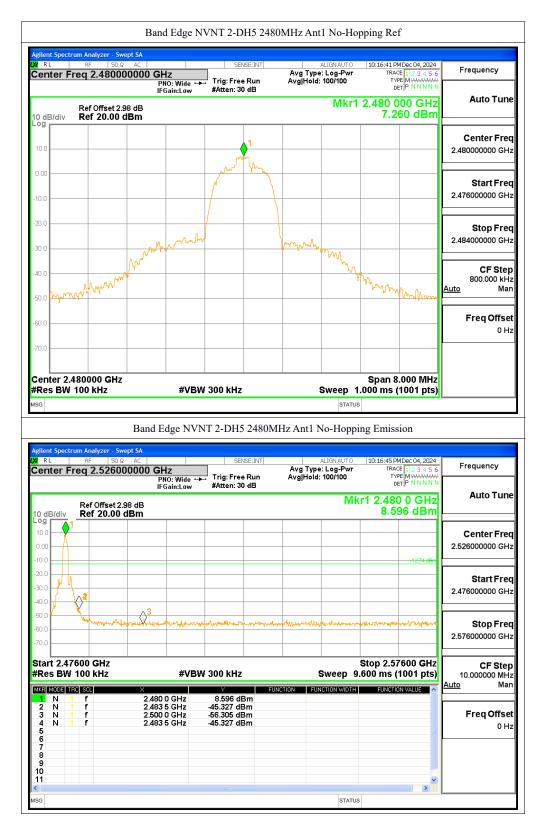




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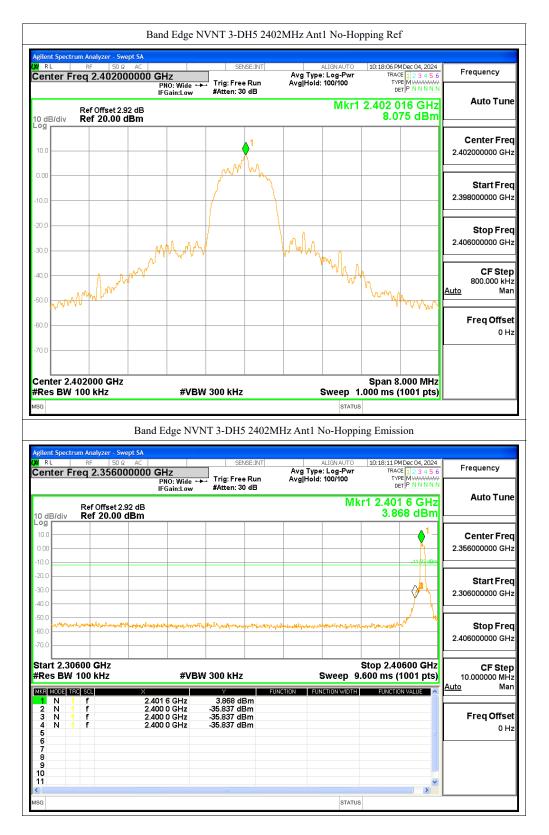




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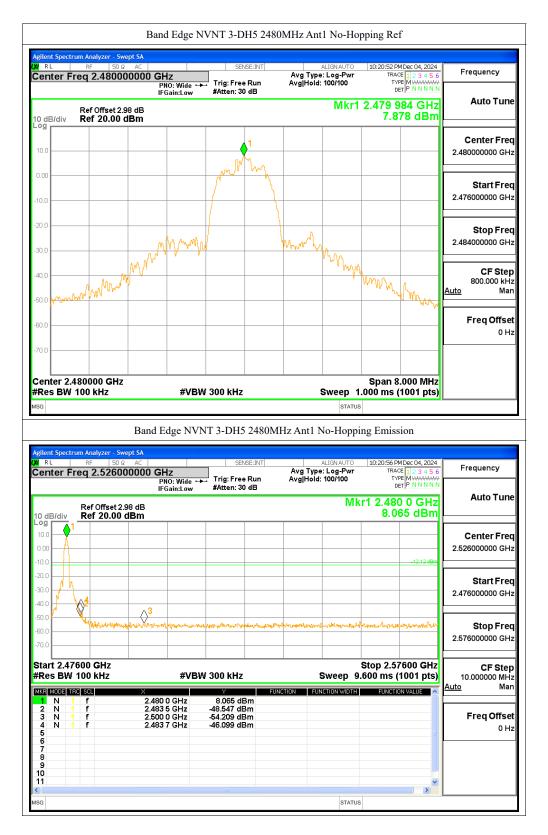




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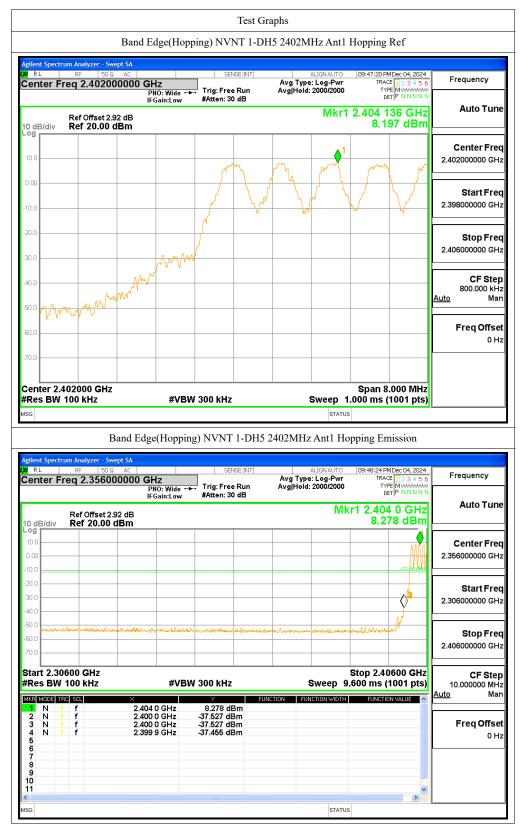


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Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
	1-DH5	2402		Hopping	-45.65	-20	Pass
	1-015	2480		Hopping	-54.64	-20	Pass
		2402	A -= 11	Hopping	-42.68	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.49	-20	Pass
		2402		Hopping	-40.29	-20	Pass
	3-DH5	2480		Hopping	-54.53	-20	Pass

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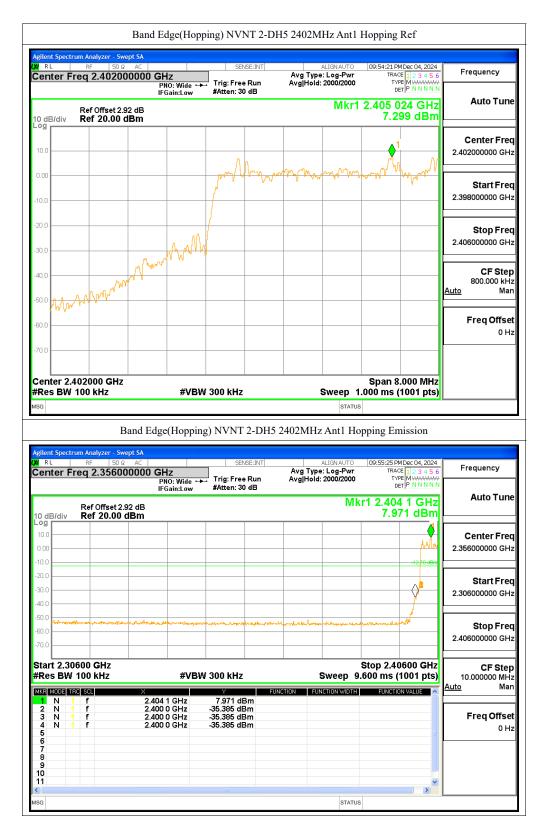




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### 12.5 Restricted band Measurement

EUT	STV player			Model	STV S2 PRO				
Mode	Keeping Transmitting			Test Voltage	120V~				
Temperature	24 deg. C,			Humidity	56% RH				
Test Result:		Pass		Detector	РК				
	GFSK, Low Channel, Horizontal								
2390	PK (dBµV/m)	40.01		Limit	74(dBµV/m)				
	AV ( $dB\mu V/m$ )			Limit	54(dBµV/m)				
	GFSK, Low Channel Vertical								
2390	PK (dBµV/m)	39.85		T :	74(dBµV/m)				
	AV ( $dB\mu V/m$ )			Limit	54(dBµV/m)				

### 12.5 Restricted band Measurement

EUT	STV player			Model		STV S2 PRO		
Mode	Ke	Keeping Transmitting			Voltage	120V~		
Temperature		24 deg. C,			midity	56% RH		
Test Result:		Pass		De	etector	РК		
GFSK, High Channel, Horizontal								
2483.5	PK (dBµV/m)	51.27	т.	•,	74(dBµV/m)			
	AV ( $dB\mu V/m$ )		Lim	IT	54(dBµV/m)			
GFSK, High Channel, Vertical								
2483.5	PK (dBµV/m)	47.93	Limit		74(dBµV/m)			
	AV ( $dB\mu V/m$ )		Lim	lt	:	54(dBµV/m)		

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### 12.5 Restricted band Measurement

EUT	STV player			Model		STV S2 PRO		
Mode	Keeping Transmitting			Test Voltage		120V~		
Temperature	24 deg. C,			Humidity		56% RH		
Test Result:	Pass			Detector		РК		
Л/4DQPSK, Low Channel, Horizontal								
2390	PK (dBµV/m)	40.22	T :		74(dBµV/m)			
	AV ( $dB\mu V/m$ )		Limit		54(dBµV/m)			
Л/4DQPSK, Low Channel Vertical								
2390	PK (dBµV/m)	39.10	Limit		74(dBµV/m)			
	AV ( $dB\mu V/m$ )		Lir	m		54(dBµV/m)		

### Restricted band Measurement 12.5

EUT	STV player			Model		STV S2 PRO		
Mode	Keeping Transmitting			Test Voltage		120V~		
Temperature	24 deg. C,			Humidity		56% RH		
Test Result:		Pass			etector	РК		
Л/4DQPSK, High Channel, Horizontal								
2483.5	PK (dBµV/m)	50.57	T .	•,	74(dBµV/m)			
	AV ( $dB\mu V/m$ )		Limit		54(dBµV/m)			
Л/4DQPSK, High Channel, Vertical								
2483.5	PK (dBµV/m)	46.56	Limit		74(dBµV/m)			
	AV ( $dB\mu V/m$ )		Lim	ll		54(dBµV/m)		

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### 12.5 Restricted band Measurement

EUT	STV player			Model		STV S2 PRO		
Mode	Keeping Transmitting			Test Voltage		120V~		
Temperature	24 deg. C,			Humidity		56% RH		
Test Result:	Pass			Detector		РК		
8DPSK, Low Channel, Horizontal								
2390	PK (dBµV/m)	40.30	T:		74(dBµV/m)			
	AV ( $dB\mu V/m$ )		Limit		54(dBµV/m)			
Л/4DQPSK, Low Channel Vertical								
2390	PK (dBµV/m)	39.82	Limit		74(dBµV/m)			
	AV ( $dB\mu V/m$ )		LII	m		54(dBµV/m)		

### Restricted band Measurement 12.5

EUT	STV player			Model		STV S2 PRO	
Mode	Keeping Transmitting			Test Voltage		120V~	
Temperature	24 deg. C,			Humidity		56% RH	
Test Result:		Pass			etector	РК	
8DPSK, High Channel, Horizontal							
2483.5	PK (dBµV/m)	52.25	т.	• ,	74(dBµV/m)		
	AV (dBµV/m)		Limit		54(dBµV/m)		
Л/4DQPSK, High Channel, Vertical							
2483.5	PK (dBµV/m)	48.63	Limit		74(dBµV/m)		
	AV ( $dB\mu V/m$ )		Lim	ll	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 2.45dBi (Get from the antenna specification provided the manufacturer)

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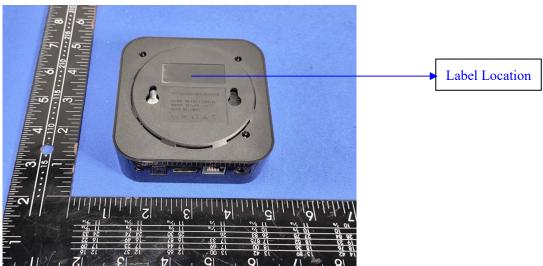
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# 14.0 FCC ID Label

# FCC ID: 2BMHL2PRO

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

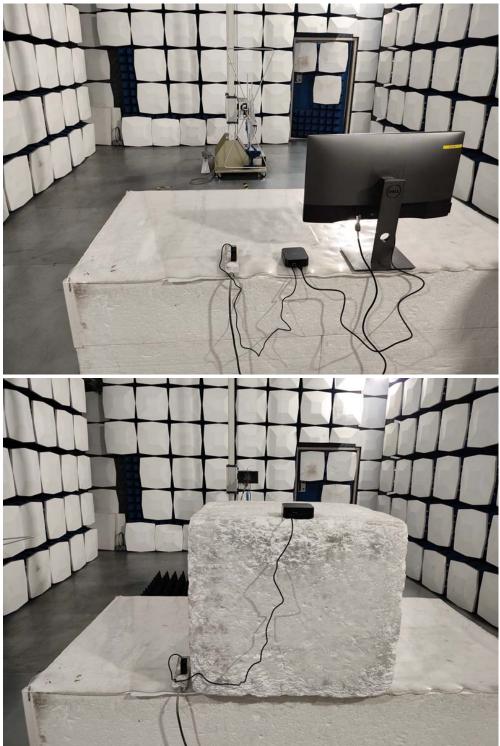
Conducted Emission Test Setup:



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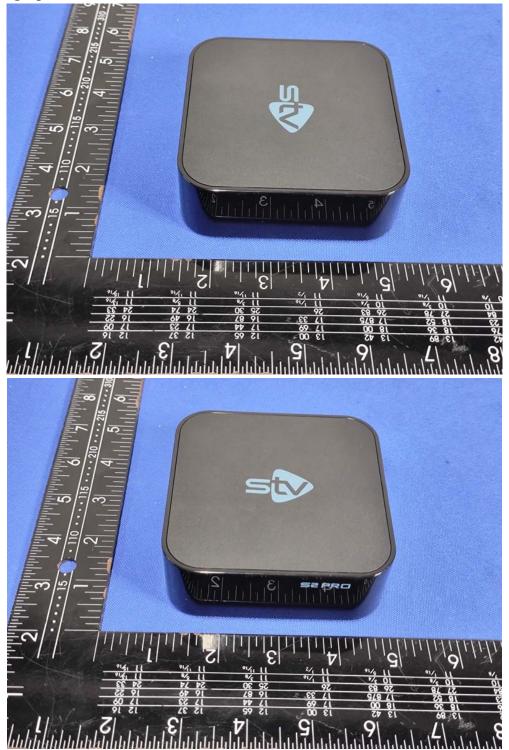
Radiated Emission Test Setup:



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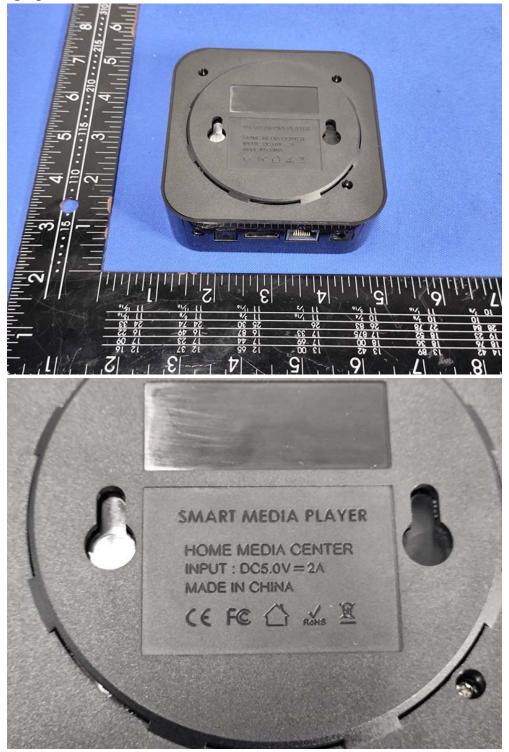
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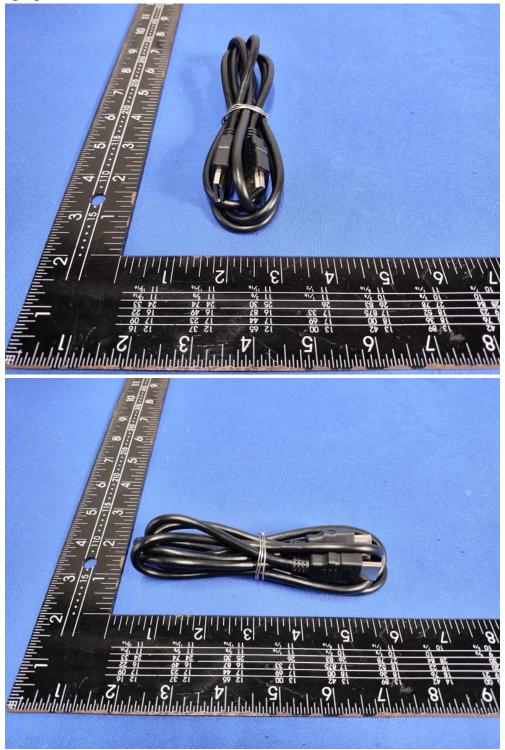
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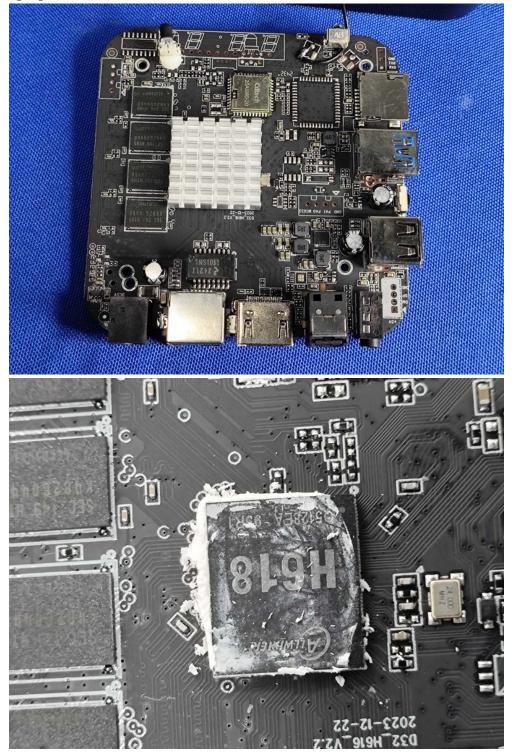
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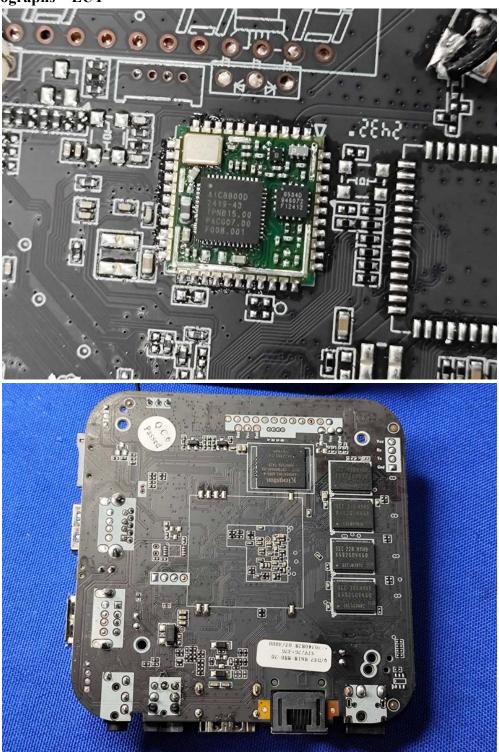
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