TEST REPORT

Applicant:	Particle Industries, Inc.
EUT Description:	IoT Development Board (For Photon 2) P2 Wi-Fi Module (For P2)
Model:	Photon 2, P2
Brand:	Particle
Standards:	Article 2 paragraph 1 item (19-3)
Test Method:	Measurement was conducted by the temporary test method which DSPResearch, Inc. submitted to the Minister for Internal Affairs and Communications based on the Ordinance Concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Article 88, Paragraph 2.
Date of Receipt:	2026/09/19
Date of Test:	2026/09/19 to 2026/10/19
Date of Issue:	2026/10/19

TOWE tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of the model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. Without written approval of TOWE, the test report shall not be reproduced except in full.

Jim Huang
Approved By:

Carey Chen
Reviewed By:

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Revision History

Rev.	Issue Date	Description	Revised by
01	2026/10/19	Original	Carey Chen

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Summary of Test Results

Report Section	Test Requirement	Result
4.1	Frequency Tolerance	Pass
4.2	Antenna power, Tolerance and E.I.R.P	Pass
4.3	Occupied bandwidth	Pass
4.4	Unwanted Emission Strength	Pass
4.5	Adjacent Channel Emitted Power	Pass
4.6	Transmission Burst Length	Pass
4.7	Secondary Radiated Emission Strength	Pass
4.8	Interference suppression function	Pass
4.9	Carrier Sense	Pass
4.10	Dynamic Frequency Selection (Slave)	N/A

Remark:
1. Pass: The EUT complies with the essential requirements in the standard.
2. N/A: WAS/RLAN devices operating in Slave Mode (Slave Device) can be operated in a network controlled by a WAN/RLAN device operating in Master Mode (Master Device).

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1 General Description

1.1 Lab Information

1.1.1 Testing Location

These measurement tests were conducted at the Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd. facility located at F 401 and F 101, Building E, Hongwei Industrial Zone,No. 6, Liuxian 3rd Road, Zone 70, Xingdong Community, Xin'an Street, Bao'an District, Shenzhen, People's Republic of China.
Tel.: +86-755-27212361
Contact Email: info@towewireless.com

1.1.2 Test Facility / Accreditations

A2LA (Certificate Number: 7088.01)
This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

FCC Designation No.: CN1353
Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd. has been recognized as an accredited testing laboratory.
Test Firm Registration Number: 684095
Designation Number: CN1353.

ISED CAB identifier: CN0152
Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.
CAB identifier: CN0152
Company Number: 31000

1.2 Client Information

1.2.1 Applicant

Applicant:	Particle Industries, Inc.
Address:	325 9th St, San Francisco, CA 94103, USA

1.2.2 Manufacturer

Manufacturer:	Particle Industries, Inc.
Address:	325 9th St, San Francisco, CA 94103, USA

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1.3 Product Information

EUT Description:	IoT Development Board (For Photon 2) P2 Wi-Fi Module (For P2)			
Model:	Photon 2, P2			
Brand:	Particle			
Hardware Version:	v1.0.1 (For Photon 2) v1.0 (For P2)			
Software Version:	v1.0			
SN.:	P051AF538091630			
Modulation Type:	802.11a/n:	OFDM-BPSK, QPSK, 16QAM, 64QAM		
Smart System:	☒SISO:	802.11a/n		
TPC Function:	☐With TPC		☒Without TPC	
DFS Function:	☐Master ☐Slave with radar detection ☒Slave without radar detection			
Frequency Range:	5150 ~ 5250MHz			
	5250 ~ 5350MHz			
	5470 ~ 5725MHz			
Antenna Rated Power:	802.11a/n20: 2mW/MHz 802.11n40: 2mW/MHz			
Channel Frequency:	20M BWch.:	5180 ~ 5240MHz	4 Channels	
		5260 ~ 5320MHz	4 Channels	
		5500 ~ 5700MHz	11 Channels	
	40M BWch.:	5190 ~ 5230MHz	2 Channels	
		5270 ~ 5310MHz	2 Channels	
		5510 ~ 5670MHz	5 Channels	
Antenna Type:	☒ External, ☒ PCB			
Antenna Gain:	External Antenna		PCB Antenna	
	Frequency Range	Ant (dBi)	Frequency Range	Ant (dBi)
	5150 ~ 5250MHz:	6.25	5150 ~ 5250MHz:	1.28
	5250 ~ 5350MHz:	6.25	5250 ~ 5350MHz:	1.60
	5470 ~ 5725MHz:	6.79	5470 ~ 5725MHz:	1.74

Remark:
1.The above EUT's information was declared by applicant, please refer to the specifications or user's manual for more detailed description.
2.Models Photon2 and P2 have the same RF module, so the test data for main Model Photon2 was presented in the report. For specific model differences, please refer to the "P2 and Photon2 differences statement" provided by the client.

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2 Test Configuration

2.1 Test Channel

Frequency Channels for 5150 ~ 5250MHz							
Channel	**Frequency**	**Channel**	**Frequency**	**Channel**	**Frequency**	**Channel**	**Frequency**
36	5180MHz	40	5200MHz	44	5220MHz	48	5240MHz
38	5190MHz	42	5210MHz	46	5230MHz	/	

Remark:
The Lowest frequency, middle frequency, and highest frequency of channel were selected to perform the test, and the selected channel see below:

Modulation Type	**Test Channel**	**Test Frequency**
802.11a/n20	The Lowest channel (CH36)	5180MHz
	The Middle channel (CH40)	5200MHz
	The Highest channel (CH48)	5240MHz
Modulation Type	**Test Channel**	**Test Frequency**
802.11n40	The Lowest channel (CH38)	5190MHz
	The Highest channel (CH46)	5230MHz

Frequency Channels for 5250 ~ 5350MHz							
Channel	**Frequency**	**Channel**	**Frequency**	**Channel**	**Frequency**	**Channel**	**Frequency**
52	5260MHz	56	5280MHz	60	5300MHz	64	5320MHz
54	5270MHz	58	5290MHz	62	5310MHz	/	

Remark:
The Lowest frequency, middle frequency, and highest frequency of channel were selected to perform the test, and the selected channel see below:

Modulation Type	**Test Channel**	**Test Frequency**
802.11a/n20	The Lowest channel (CH52)	5260MHz
	The Middle channel (CH60)	5300MHz
	The Highest channel (CH64)	5320MHz
Modulation Type	**Test Channel**	**Test Frequency**
802.11n40	The Lowest channel (CH54)	5270MHz
	The Highest channel (CH62)	5310MHz

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Frequency Channels for 5470 ~ 5725MHz							
Channel	**Frequency**	**Channel**	**Frequency**	**Channel**	**Frequency**	**Channel**	**Frequency**
100	5500MHz	110	5550MHz	122	5610MHz	134	5670MHz
102	5510MHz	112	5560MHz	124	5620MHz	136	5680MHz
104	5520MHz	116	5580MHz	126	5630MHz	140	5700MHz
106	5530MHz	118	5590MHz	128	5640MHz	/	
108	5540MHz	120	5600MHz	132	5660MHz		

Remark:
The Lowest frequency, middle frequency, and highest frequency of channel were selected to perform the test, and the selected channel see below:

Modulation Type	**Test Channel**	**Test Frequency**
802.11a/n20	The Lowest channel (CH100)	5500MHz
	The Middle channel (CH120)	5600MHz
	The Highest channel (CH140)	5700MHz
Modulation Type	**Test Channel**	**Test Frequency**
802.11n40	The Lowest channel (CH102)	5510MHz
	The Middle channel (CH118)	5590MHz
	The Highest channel (CH134)	5670MHz

2.2 Configuration and Mode

Modulation Type	**SISO - Data Rate**
802.11a	6 Mbps
802.11n20	MCS0 (6.5 Mbps)
802.11n40	MCS0 (13.5 Mbps)

TM 1 mode:	Keep the EUT was programmed to be in continuously transmitting with modulation.
TM 2 mode:	Keep the EUT was programmed to be in continuously transmitting without modulation.
TM 3 mode:	Keep the EUT operation to normal function.
TM 4 mode:	Keep the EUT was programmed to be in continuously receiving

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2.3 Support Unit used in test

Description	Manufacturer	Model	Serial Number
Power Divider	Qotana	DBPD0200001800C	22122900036
Router	Buffalo	WNR-5400XE6	20632221026107
Multimeter	Proskit	MT-1280	21175671

2.4 Test Environment

Temperature:	Normal: 15℃ ~ 35℃		
Humidity:	Normal: 45 ~ 56 % RH		
Atmospheric Pressure:	1010 mbar		
Power Supply:	Nominal: 3.30Vdc Extreme: 2.97Vdc for low voltage, 3.63Vdc for high voltage		
External power supply	IC power supply	Deviation from normal	Deviation
3.30V	3.30V	---	---
2.97V	3.30V	0.00V	0.00%
3.63V	3.30V	0.00V	0.00%
Note: For extreme voltage test, The RF IC power unit is supplied DC 3.30V. The supply voltage of the RF IC fluctuates within 1%, so only the normal voltage was selected to test all items.			

2.5 Test RF Cable

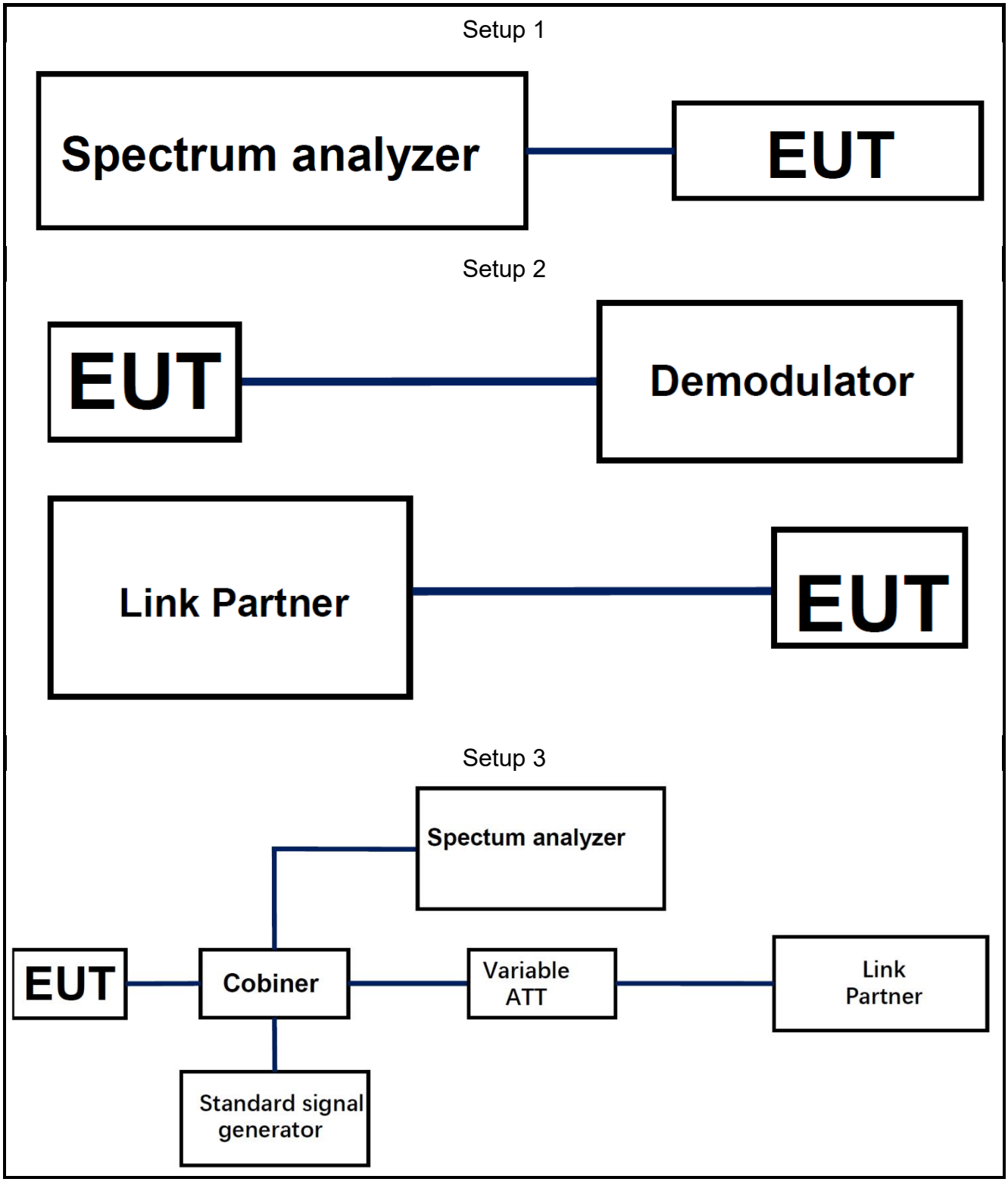
For all conducted test items: The offset level is set spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.
The spectrum analyzer offset is derived from RF cable loss and attenuator factor.
Offset = RF cable loss + attenuator factor.

2.6 Modifications

No modifications were made during testing.

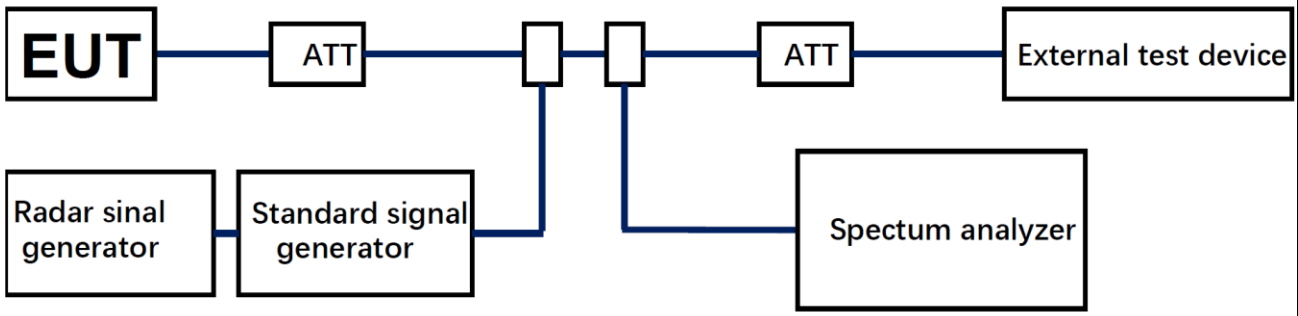
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2.7 Test Setup Diagram



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Setup 4



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3 Equipment and Measurement Uncertainty

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, whichever is less, and where applicable is traceable recognized national standards.

3.1 Test Equipment List

Description	Manufacturer	Model	Serial No.	Last Cal	Cal Due	Cal Method	Cal Authority
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY63440541	2026/05/29	2027/05/28	3	Lisai
Signal Analyzer	Keysight	N9020A	US46470468	2026/03/05	2027/03/04	3	Lisai
Signal Generator	Keysight	N5182A	MY50144316	2026/03/05	2027/03/04	3	Lisai
Measurement Software	Tonscend	TS1120-3 V3.5.49	10659	N/A	N/A	N/A	N/A

Remark:
1. Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as *NICT*) or a designated calibration agency under Article 102-18 paragraph (1) in JRL.
2. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No.51 of 1992)
3. Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
4. Calibration conducted by using other equipment that listed above from 1) to 3).

From JRL Article 24-2, paragraph 4, Item 2

3.2 Measurement Uncertainty

Parameter	U_{lab}
Frequency error	679.98Hz
Output Power	0.76dB
Adjacent channel power	0.48dB
Conducted spurious emissions	2.22dB

Uncertainty figures are valid to a confidence level of 95%

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4 Test Results

4.1 Frequency Tolerance

Limit

Frequency Deviation ≤ ± 20 ppm

Measurement methods

Measurement was conducted by the temporary test method which DSPResearch, Inc. submitted to the Minister for Internal Affairs and Communications based on the Ordinance Concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Article 88, Paragraph 2.

Test Procedure

1. Configure EUT at maximum power transmission without modulation.
2. Spectrum analyzer setting:
   RBW = 10kHz
   VBW = 10kHz
   Sweep time = Auto
   Sweep mode = Continuous sweep
   Detect mode = Positive peak
3. The frequency deviation is calculated as follows:
   Frequency Deviation = $(F-F_c)/F_c \times 10^6$ ppm
   F is using the mark cursor to mark the peak frequency value
   F_c is declaring of channel frequency.

Test Setup

Refer to section 2.7 Setup 1

Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

Test Result

The detailed test data see: **Appendix.**

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4.2 Antenna power, Tolerance and E.I.R.P

Limit

Band 1/2/3(Antenna Power)		
a. OBW: ≤20MHz	OFDM ≤ 10mW/MHz	Band 1/2 Deviation： +20% ~ -80%
b. 20MHz ≤ OBW ≤40M	OFDM ≤ 5mW/MHz	Band 3 Deviation： +50% ~ -50%
Band 1(E.I.R.P)		
BW	Without TPC	
a. OBW: ≤20MHz	OFDM ≤ 10mW/MHz	
b. 20MHz ≤ OBW ≤40M	OFDM ≤ 5mW/MHz	
Band 2(E.I.R.P)		
BW	Without TPC	
a. OBW: ≤20MHz	OFDM ≤ 5mW/MHz	
b. 20MHz ≤ OBW ≤40M	OFDM ≤ 2.5mW/MHz	
Band 3(E.I.R.P)		
BW	Without TPC	
a. OBW: ≤20MHz	OFDM ≤ 25mW/MHz	
b. 20MHz ≤ OBW ≤40M	OFDM ≤ 12.5mW/MHz	

Measurement methods

Measurement was conducted by the temporary test method which DSPResearch, Inc. submitted to the Minister for Internal Affairs and Communications based on the Ordinance Concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Article 88, Paragraph 2.

Test Procedure

1. Configure EUT at maximum power transmission with modulation.
2. Spectrum analyzer setting (1):
   RBW = 1MHz
   VBW = 1MHz
   Sweep time = Auto
   Detector = Peak
   Trace = Max hold.
   Spectrum analyzer setting (2):
   Frequency = The frequency that gives the maximum power (searched frequency)
   Span = 0Hz
   RBW = 1MHz
   VBW = 1MHz
   Sweep time = continuous
3. Calculation formula:
   Declaration Power = P_d(mW) (declared by manufacturer)
   Antenna Power = P(dBm) = PLinear(mW)
   Deviation = (PLinear -Pd) / Pd x 100%
   EIRP = Output Power + Antenna Gain(dBi)

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Test Setup

Refer to section 2.7 Setup 1

Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

Test Result

The detailed test data see: **Appendix.**

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4.3 Occupied bandwidth

Limit

20 MHz System ≤ 20 MHz
40 MHz System ≤ 40 MHz

Measurement methods

Measurement was conducted by the temporary test method which DSPResearch, Inc. submitted to the Minister for Internal Affairs and Communications based on the Ordinance Concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Article 88, Paragraph 2.

Test Procedure

1. Configure EUT at maximum power transmission with modulation.
2. Spectrum analyzer setting:
   RBW ≈ 1%OBW
   VBW = RBW
   Detector=Peak
   Trace = Max hold.
   Use the 99% OBW function of the Spectrum analyzer and recode the 99%OBW.

Test Setup

Refer to section 2.7 Setup 1

Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

Test Result

The detailed test data see: **Appendix.**

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4.4 Unwanted Emission Strength

Limit

5150MHz~5250MHz		
Frequency Range	Limit	Units
OBW 18MHz or less		
≤ 5142MHz	≤ 2.5	uW/MHz
5142 ~ 5150MHz	≤ 15	uW/MHz
5250 ~ 5251MHz	≤ $10^{1-(f-9)}$ (f: 10-11MHz)	mW/MHz
5251 ~ 5260MHz	≤ $10^{-1-(8/90)(f-11)}$ (f: 11-20MHz)	mW/MHz
5260 ~ 5266.7MHz	≤ $10^{1.8-(6/50)(f-20)}$ (f:20-26.7MHz)	mW/MHz
≥ 5266.7MHz	≤ 2.5	uW/MHz
OBW 18MHz ~ 20MHz		
≤ 5142MHz	≤ 2.5	uW/MHz
5142 ~ 5150MHz	≤ 15	uW/MHz
5250 ~ 5250.2MHz	≤ $10^{1-(8/3)(f-9.75)}$ (f:10-10.2MHz)	mW/MHz
5250.2 ~ 5251MHz	≤ $10^{1-(f-9)}$ (f:10-11MHz)	mW/MHz
5251 ~ 5260MHz	≤ $10^{-1-(8/90)(f-11)}$ (f: 11-20MHz)	mW/MHz
5260 ~ 5266.7MHz	≤ $10^{1.8-(6/50)(f-20)}$ (f:20-26.7MHz)	mW/MHz
≥ 5266.7MHz	≤ 2.5	uW/MHz
OBW 20MHz ~ 40MHz		
≤ 5141.6MHz	≤ 2.5	uW/MHz
5250 ~ 5251MHz	$10^{-(f-20)+\log(1/2)}$ (f:20-21MHz)	mW/MHz
5251 ~ 5270MHz	$10^{-(8/190)(f-21)-1+\log(1/2)}$(f:21-40MHz)	mW/MHz
5270 ~ 5278.4MHz	$10^{-(3/50)(f-40)-1.8+\log(1/2)}$(f:40-48.4MHz)	mW/MHz
≥ 5278.4MHz	≤ 2.5	uW/MHz

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5250MHz~5350MHz		
Frequency Range	Limit	Units
OBW 18MHz or less		
≤ 5233.3MHz	≤ 2.5	uW/MHz
5233.3 ~ 5240MHz	≤ $10^{-1.8-(6/50)(f-20)}$ (f: 26.7-20MHz)	mW/MHz
5240 ~ 5249MHz	≤ $10^{-1-(8/90)(f-11)}$ (f: 20-11MHz)	mW/MHz
5249 ~ 5250MHz	≤ $10^{1-(f-9)}$ (f: 11-10MHz)	mW/MHz
≥ 5350MHz	≤ 2.5	uW/MHz
OBW 18MHz ~ 20MHz		
≤ 5233.3MHz	≤ 2.5	uW/MHz
5233.3 ~ 5240MHz	≤ $10^{-1.8-(6/50)(f-20)}$ (f:26.7-20MHz)	mW/MHz
5240 ~ 5249MHz	≤ $10^{-1-(8/90)(f-11)}$ (f: 20-11MHz)	mW/MHz
5249 ~ 5249.8MHz	≤ $10^{1-(f-9)}$ (f:11-10.2MHz)	mW/MHz
5249.8 ~ 5250MHz	≤ $10^{1-(8/3)(f-9.75)}$ (f:10.2-10MHz)	mW/MHz
≥ 5350MHz	≤ 2.5	uW/MHz
OBW 20MHz ~ 40MHz		
≤ 5221.6MHz	≤ 2.5	uW/MHz
5221.6 ~ 5230MHz	≤$10^{-(3/50)(f-40)-1.8+\log(1/2)}$(f:48.4-40MHz)	mW/MHz
5230 ~ 5249MHz	≤$10^{-(8/190)(f-21)-1+\log(1/2)}$(f:40-21MHz)	mW/MHz
5249 ~ 5250MHz	≤$10^{-(f-20)+\log(1/2)}$ (f:21-20MHz)	mW/MHz
5350 ~ 5358.4MHz	≤ 15	uW/MHz
≥ 5358.4MHz	≤ 2.5	uW/MHz

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5470MHz~5725MHz		
Frequency Range	Limit	Units
OBW 18MHz or less		
≤5460MHz	≤ 2.5	uW/MHz
5460 ~ 5470MHz	≤ 12.5	uW/MHz
5745 ~ 5765MHz	≤ 12.5	uW/MHz
≥ 5765MHz	≤ 2.5	uW/MHz
OBW 18MHz ~ 20MHz		
≤5460MHz	≤ 2.5	uW/MHz
5460 ~ 5470MHz	≤ 12.5	uW/MHz
5745 ~ 5765MHz	≤ 12.5	uW/MHz
≥ 5765MHz	≤ 2.5	uW/MHz
OBW 20MHz ~ 40MHz		
≤ 5460MHz	≤ 12.5	uW/MHz
5460 ~ 5470MHz	≤ 50	uW/MHz
≥ 5770MHz	≤ 12.5	uW/MHz

Measurement methods

Measurement was conducted by the temporary test method which DSPResearch, Inc. submitted to the Minister for Internal Affairs and Communications based on the Ordinance Concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Article 88, Paragraph 2.

Test Procedure

Step 1:

1. limit of secondary radio wave emission (hereinafter referred to as "secondary emission" in this table) Set the spectrum analyzer at the time of search as follows.
2. Spectrum analyzer setting:
   RBW = 100kHz, VBW =100kHz (For 30MHz~1000MHz)
   RBW = 1MHz, VBW =1MHz (For Others)
   Sweep time = Auto
   Detector = Peak
   Trace = Max hold
   Use the Peak Mark function mark peak emissions.

Step 2:

Set the spectral analyzer at the time of secondary launch measurement as follows.
Center = Secondary TX frequency of emission
RBW = 100kHz, VBW =100kHz (For 30MHz~1000MHz)
RBW = 1MHz, VBW =1MHz (For Others)
Span = 0Hz
Sweep time = Minimum time for measurement accuracy to be guaranteed
Detector = Sample
Trace = Max hold
Use the Peak Mark function mark peak emissions.

Test Setup

Refer to section 2.7. Setup 1

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Measuring Instruments:

The measuring equipment is listed in the section 3 of this test report.

Test Result

The detailed test data see: **Appendix.**

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4.5 Adjacent Channel Emitted Power

Limit

OBW	Offset (From center frequency)	Limit
OBW 18MHz or less	± 20MHz	-25dBc/18MHz
	± 40MHz	-40dBc/18MHz
OBW 18MHz ~ 20MHz	± 20MHz	-25dBc/20MHz
	± 40MHz	-40dBc/20MHz
OBW 20MHz ~ 40MHz	± 40MHz	-25dBc/40MHz
	± 80MHz	-40dBc/40MHz

Measurement methods

Measurement was conducted by the temporary test method which DSPResearch, Inc. submitted to the Minister for Internal Affairs and Communications based on the Ordinance Concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Article 88, Paragraph 2.

Test Procedure

1. Configure EUT at maximum power transmission with modulation.
2. Spectrum analyzer setting:
   RBW = 300kHz
   VBW = 300kHz
   For 802.11 a/n20:
   Adjacent channel bandwidth 20MHz, Channel spacing 20MHz
   Alternate channel bandwidth 20MHz, Channel spacing 40MHz
   For 802.11 n40:
   Adjacent channel bandwidth 40MHz, Channel spacing 40MHz
   Alternate channel bandwidth 40MHz, Channel spacing 80MHz
   Detector= Sample
   Trace = Max hold.

Test Setup

Refer to section 2.7. Setup 1

Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

Test Result

The detailed test data see: **Appendix.**

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4.6 Transmission Burst Length

Limit

Burst Length ≤ 8 ms

Measurement methods

Measurement was conducted by the temporary test method which DSPResearch, Inc. submitted to the Minister for Internal Affairs and Communications based on the Ordinance Concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Article 88, Paragraph 2.

Test Procedure

1. Configure EUT at maximum power transmission with modulation.
2. Spectrum analyzer setting:
   RBW = 1MHz
   VBW = RBW
   Span = 0
   Sweep time = 5ms
   Sweep Mode = Single sweep
   Detector=Peak
   Trace = Max hold.

Test Setup

Refer to section 2.7. Setup 1

Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

Test Result

The detailed test data see: **Appendix.**

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4.7 Secondary Radiated Emission Strength

Limit

Frequency Range	Limit
30MHz~1000MHz	≤4 nW (-54dBm)
Above 1GHz	≤20 nW (-47dBm)

Measurement methods

Measurement was conducted by the temporary test method which DSPResearch, Inc. submitted to the Minister for Internal Affairs and Communications based on the Ordinance Concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Article 88, Paragraph 2.

Test Procedure

Step 1:

1. limit of secondary radio wave emission (hereinafter referred to as "secondary emission" in this table) Set the spectrum analyzer at the time of search as follows.
2. Spectrum analyzer setting:
   RBW = 100kHz, VBW =100kHz (For 30MHz~1000MHz)
   RBW = 1MHz, VBW =1MHz (For Others)
   Sweep time = Auto
   Detector = Peak
   Trace = Max hold
   Use the Peak Mark function mark peak emissions.

Step 2:

Set the spectral analyzer at the time of secondary launch measurement as follows.
Center = Secondary TX frequency of emission
RBW = 100kHz, VBW =100kHz (For 30MHz~1000MHz)
RBW = 1MHz, VBW =1MHz (For Others)
Span = 0Hz
Sweep time = Minimum time for measurement accuracy to be guaranteed
Detector = Sample
Trace = Max hold
Use the Peak Mark function mark peak emissions.

Test Setup

Refer to section 2.7. Setup 1

Measuring Instruments

The measuring equipment is listed in the section 1 of this test report.

Test Result

The detailed test data see: **Appendix.**

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4.8 Interference suppression function

Requirement

1. The demodulator shall be able to demodulate the transmitting signal from the radio equipment and to display contents of the identification code.
2. The opposite equipment shall be able to transmit the identification code as same as the transmitting signal from the radio equipment.

Measurement methods

Measurement was conducted by the temporary test method which DSPResearch, Inc. submitted to the Minister for Internal Affairs and Communications based on the Ordinance Concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Article 88, Paragraph 2.

Test Procedure

A. The radio equipment with automatic transmitting function of identification code
   1. Transmit the assigned identification code from the radio equipment.
   2. Confirm the identification code received by the demodulator.

B. The radio equipment with automatic receiving function of identification code
   1. Transmit the assigned identification code from the opposite equipment.
   2. Confirm that the EUT normally communication.
   3. Transmit the identification code distinct from the assigned one from the opposite equipment.
   4. Confirm that the radio equipment is stopped, or an indication is displayed as the identification code is different.

Test Setup

Refer to section 2.7 Setup 2

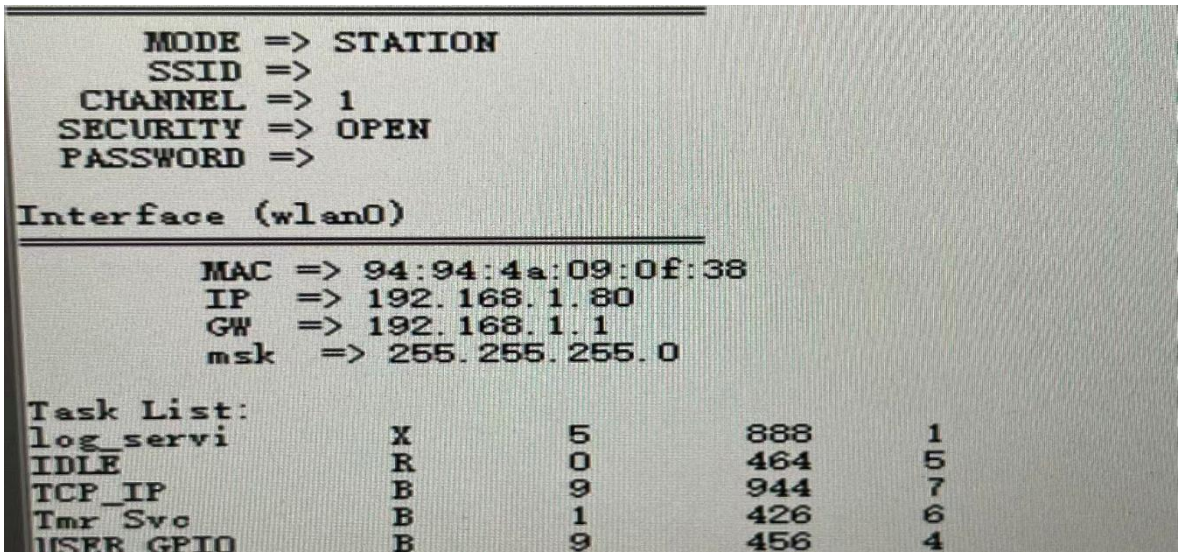
Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

Test Result

Pass: The EUT can receive identification code from Opposite Equipment and also can transmit identification code to other equipment and can be receiving successfully received by other equipment.

Identification code:



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4.9 Carrier Sense

Requirement

The EUT shall not transmit radio wave when receiving over 100mV/m

Measurement methods

Measurement was conducted by the temporary test method which DSPResearch, Inc. submitted to the Minister for Internal Affairs and Communications based on the Ordinance Concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Article 88, Paragraph 2.

Test condition

A. The test equipment condition

1. The signal generator is set as follows:
   Carrier frequency: The center frequency of the receiving band of the test device
   Output level: The output level is the same as the value of the electric field strength of 100mv/m in the antenna input of the EUT.

2. Spectrum analyzer setting:
   Centre frequency = Centre frequency of the bandwidth used (Note 2)
   Span = If the working bandwidth is greater than 50MHz, Span setting > working bandwidth
   RBW=VBW=1MHz
   Trigger = Free run
   Detector = Peak

3. Condition of EUT
   Set the EUT operating at the test frequency and the test spread code, initially in the received state.
   When using external test device, connect with the EUT by line connection.

Test Procedure

B. Test with external test device:
   1. Set the spectrum analyzer according to (A) of 2).
   2. Turn off the output of the signal generator
   3. EUT is communicating with the external test device, confirms that it emits radio waves at the test frequency through a spectrum analyzer.
   4. Set the EUT to receive mode
   5. With the output of standard signal generator ON and confirm whether it emits radio waves through a spectrum analyzer.
   6. The EUT would stop transmitting, then record Good, otherwise, the result is No.

Test Setup

Refer to section 2.7 Setup 3

Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

Test Result

The detailed test data see: **Appendix.**

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4.10 Dynamic Frequency Selection

Requirement

Master Station	**Channel availability check:** A check during which the device listens on a particular radio channel for 60 s to identify whether there is a radar signal operating on that radio channel. **In service monitoring:** Monitoring of the operating channel to check that a co channel radar has not moved or started operation within range of the Master. During in service monitoring the radar detection function continuously searches for radar signals in between normal Master transmissions. **Probability of detection:** More than 60% **DFS detection threshold (Received power):** a. 62dBm for devices with a maximum EIRP. of < 0.2W b. 64dBm for devices with a maximum EIRP of ≥0.2W **Non occupancy period:** 30mins when it cannot be used by the Master device in order to protect scanning radars. The non occupancy period should start at the time when the radar signal is detected. **Channel move time:** Time ≤ 10s to cease all transmissions on the operating channel upon detection of an interfering signal above the DFS detection threshold.
Slave Station	**Controlled by Master** It has the following functions: a. Chooses the frequency which transmits automatically by the control from a "master station". b. Transmission and a stop of a radio wave are performed by the control from a "master station".

Measurement methods

Measurement was conducted by the temporary test method which DSPResearch, Inc. submitted to the Minister for Internal Affairs and Communications based on the Ordinance Concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Article 88, Paragraph 2.

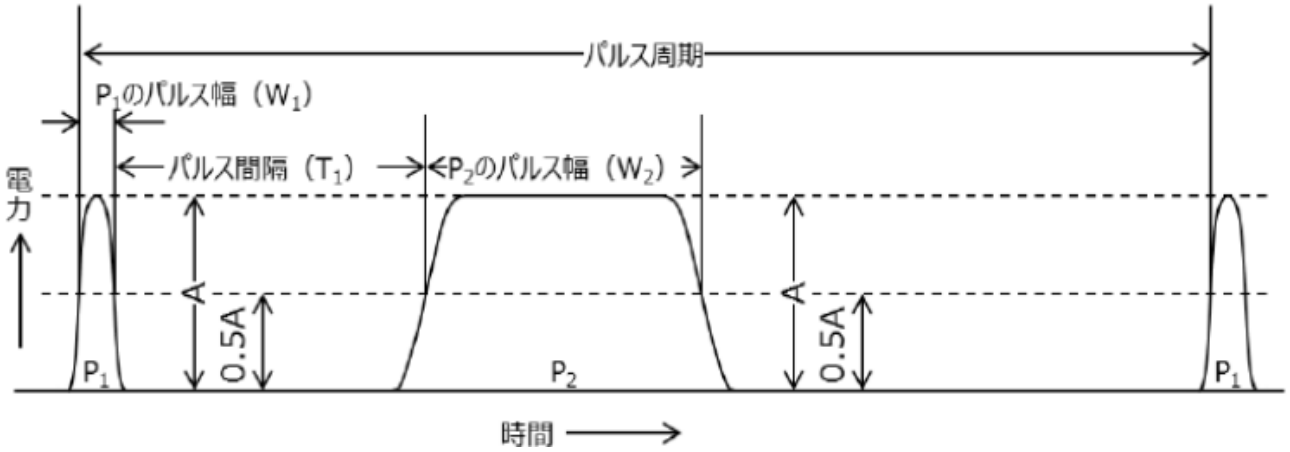
Radio waves transmitted by radar

5250-5350MHz Band						
Category	Pulse width [μs]		Pulse repetition frequency [Hz]		Number of continuous pulses(mini)	Detection probability [%]
	mini	max	mini	max		
1	0.5	5	200	1000	10	>60
2	0.5	15	200	1600	15	>60
3	0.5	5	200	1000	Repeat frequency × 0.026 (rounded up to fractions less than 1) or 22, whichever is greater or 30, whichever is smaller	>60
4	0.5	15	200	1600	Repeat frequency × 0.026 (rounded up to fractions less than 1) or 22, whichever is greater or 30, whichever is smaller	>60
5	0.5	1.5	1114	1118	30	>60
6	0.5	1.5	928	932	35	>60
7	0.5	1.5	886	890	24	>60
8	0.5	1.5	738	742	20	>60

Note 1. The probability of detection is determined by the wireless equipment of the parent station (limited to those with carrier sense multiple access system). This refers to the transmission of a wireless device in a substation with a transmission time of 30 ms or more in any 100 ms. Note 2. In this table, "A" is the maximum electric charge of P1 and P2, "pulse width" is the pulse width W1 of P1 in the following figure, and "repetition

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frequency" is the reciprocal of the pulse period in the following figure. The pulse width and frequency are arbitrary values between the minimum and maximum values.



In the case of category 3 and 4

Charp width	range from ±0.5 MHz to ±1.0 MHz
P_1 pulse interval T_1	>70μs
P_2 pulse width W_2	>20μs, <110μs
P_1 pulse width and P_2 pulse width the difference according to the section describing the codes of the following value | W_2-W_1|	>15μs
Duty ratio	Less than 10%

In the case of categories 5 to 8

Charp width	range from ±0.5 MHz to ±1.0 MHz
P_1 pulse interval T_1	>50μs
P_2 pulse width W_2	>28.5μs, <33.6μs

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5470-5725MHz Band				
Category	Pulse width [μs]	Pulse repetition frequency [Hz]	Number of continuous pulses	Number of continuous pulses
Fixed Pulse 1	0.5	720	18	15.0
Fixed Pulse 2	1.0	700	18	15.0
Fixed Pulse 3	2.0	250	18	15.0
Variable Pulse 4	The width of an integer multiple of a microsecond between 1μs and 5μs	Any one frequency from 4347Hz to 6667Hz	Any single integer from 23 to 29	15.0
Variable Pulse 5	The width of an integer multiple of a microsecond between 6μs and 10μs	Any one frequency from 2000Hz to 5000Hz	Any single integer from 16 to 18	15.0
Variable Pulse 6	The width of an integer multiple of a microsecond between 11μs and 20μs	Any one frequency from 2000Hz to 5000Hz	Any single integer from 12 to 16	15.0
Charp	The width of an integer multiple of a microsecond between 50μs and 100μs	Any one frequency from 2000Hz to 5000Hz	Any single integer from 1 to 3	12.0
Hopping	1.0	3000	9	10.0

Charp:
Note 1: Bursts shall be transmitted within 12 seconds.
Note 2: The charp width shall be a frequency width that ranges from 5 to 20 MHz in increments of 1 MHz. An individual charp width can be any in each burst and charp widths within the same burst shall be equal.
Note 3: The number of bursts shall be any integer in a range of 8 to 20 and a burst interval shall be a time period derived from dividing 12 seconds with the number of bursts.
Note 4: If there are multiple pulses within a burst of 1s, the width of each pulse shall be equal and the pulse; repetition frequency shall not have any relationships with that for the subsequent pulses of 1.
Note 5: Each item in the table shall consist of any combination of 1.
Hopping:
Note 1: The hopping frequency shall be any frequency that ranges from 5,250 to 5,724 MHz in increments of 1 MHz.
Note 2: An individual hopping interval shall be 3 ms and a total of all hopping intervals shall be 300 ms.
Note 3: Burst intervals shall be 3ms.

Test Procedure

1. Confirming available channels:
   a) Set the standard signal generator to be in non-transmission state.
   b) Set EUT to be in state of available channel checking by initializing EUT and confirm with the spectrum analyzer that EUT does not radiate emissions.
   c) In a time slot selected randomly from the time period of available channel checking, set the standard signal input generator to be in transmission state and apply quasi radar pulses at the prescribed level to EUT.
   d) In a time slot selected randomly from the time period of available channel checking, set the standard signal input generator to be in transmission state and apply quasi radar pulses at the prescribed level to EUT.
   e) Repeat Steps A to D four times and record each time whether EUT radiates emissions or not. If EUT does not radiate emissions, assume that a quasi radar pulse has been detected and find how many times it has been detected.
2. Monitoring of operating channel:
   a) Set the standard signal generator to be in non-transmission state.
   b) Set EUT to be in state of operating channel monitoring by initializing it and transmit waves at the test frequency.
   c) Set the communication load conditions for EUT so that the transmission speed for signals that do not include error correction and control signals may amount to 50% of the maximum signal

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transmission speed for radio equipment and establish communications with the external test device.

d) Set the standard signal generator to be in transmission state and apply quasi radar pulses at the prescribed input level to EUT.

e) Confirm with the spectrum analyzer that EUT stops radiating emissions when quasi radar pulses are input to EUT.

f) Repeat Steps A to E 20 times and record each time whether EUT radiates emissions or not. If EUT does not radiate emissions, assume that a quasi radar pulse has been detected and find how many times it has been detected. The measurement operation, however, shall be terminated when a quasi radar pulse has been detected 15 times.

g) If the number of occurrences of quasi radar signal detection is 11 to 14 in Step F, repeat Steps A to E 20 times and record each time whether EUT radiates emissions or not. If EUT does not radiate emissions, assume that a quasi radar pulse has been detected and find the number of occurrences of quasi radar pulse detection by adding the value in Step F and the one in this step.

3. The setting of the standard signal generator is as follows:
   a) Carrier frequency: Center of transmission (reception) frequency band of EUT
   b) Modulation: Signals shall be pulse-modulated with signals output from the radar signal generator.
   c) Output level: Set the EIRP received with the reception antenna of EUT (mean power during a period of radar
   d) wave transmission: prescribed input level) as follows:
      i. When the maximum EIRP of EUT is below 200 mW: -62dBm
      ii. When the maximum EIRP of EUT is 200 mW or more: -64dBm
4. The setting of the spectrum analyzer is as follows:
   a) Center frequency: Center of transmission (reception) frequency band of EUT
   b) Frequency sweep width: 0 Hz
   c) Resolution bandwidth: 1 MHz
   d) Video bandwidth: Approximately same as the resolution bandwidth
   e) Sweep time: Approximately 15 s
   f) Sweep mode: Continuous sweep
   g) Detection mode: Positive peak

Test Setup

Refer to section 2.7 Setup 4

Measuring Instruments

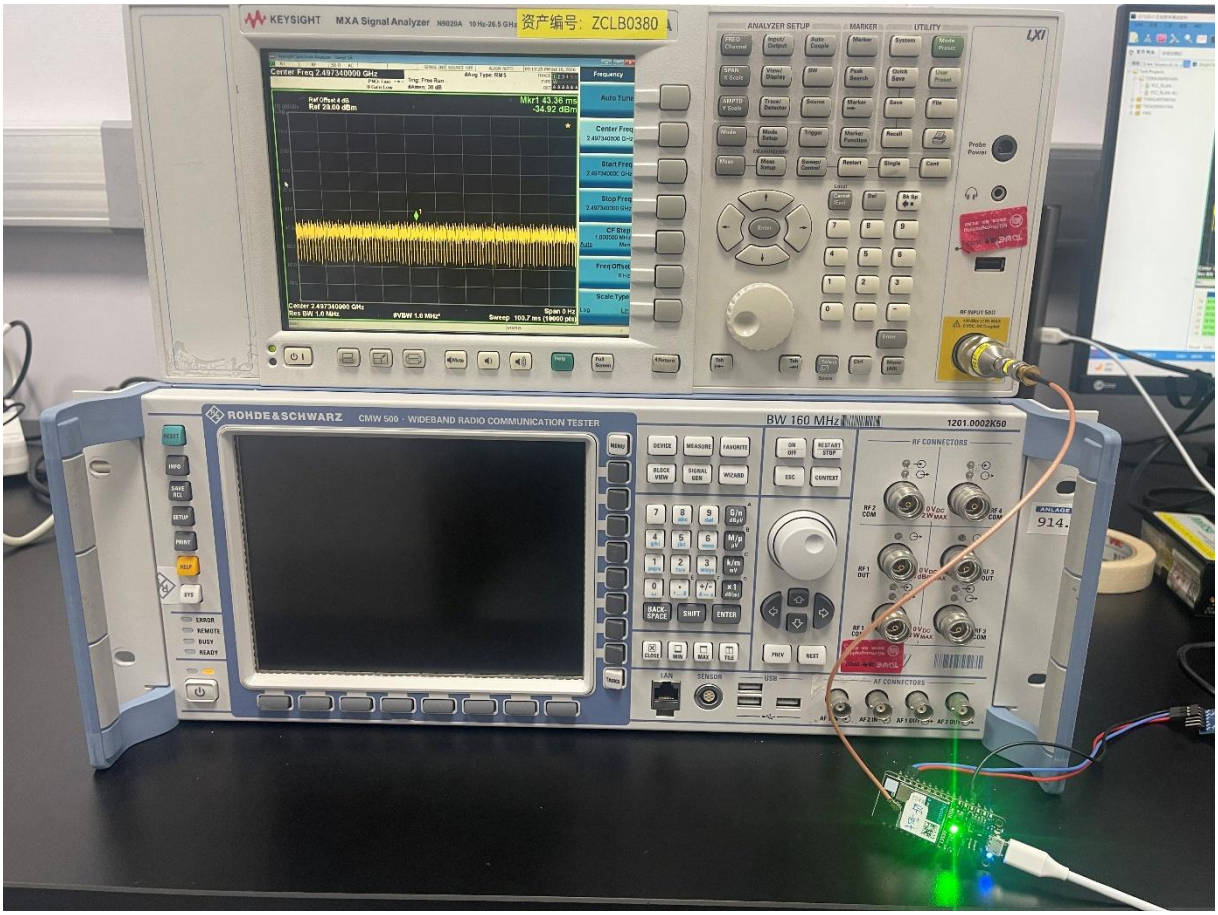
The measuring equipment is listed in the section 3 of this test report.

Test Result

WAS/RLAN devices operating in Slave Mode (Slave Device) can be operated in a network controlled by a WAN/RLAN device operating in Master Mode (Master Device).

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5 Test Setup Photos



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Appendix

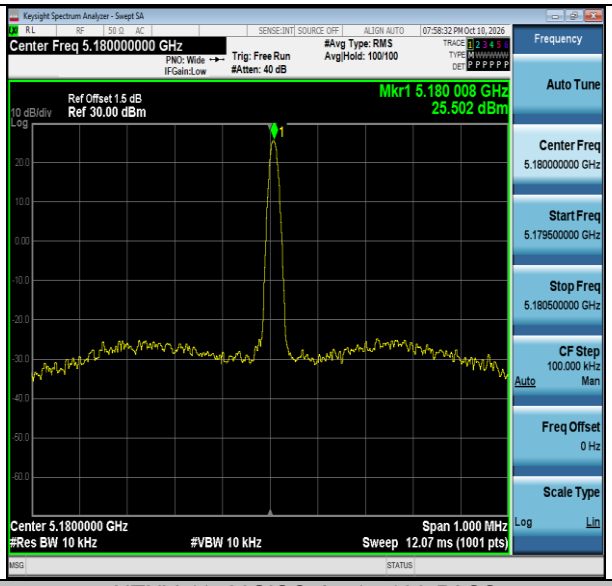
Frequency Error

Test Result

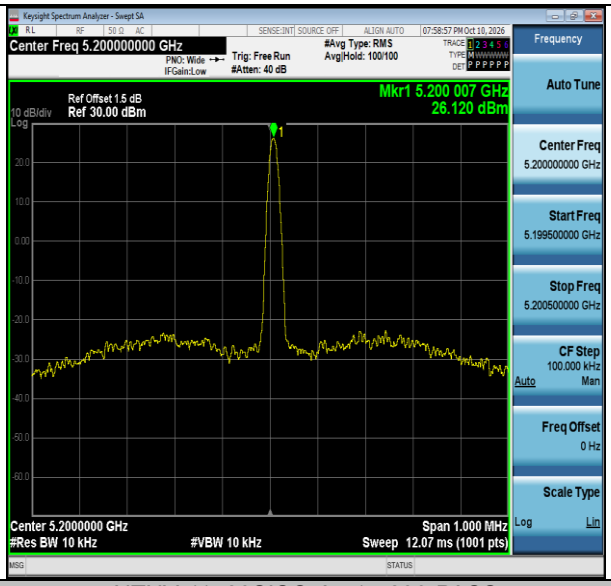
Test Condition	Test Mode	Antenna	Frequency [MHz]	CenterFreq [MHz]	Result [ppm]	Limit [ppm]	Verdict
NTNV	11n20SISO	Ant1	5180	5180.008	1.54440	±20	PASS
NTNV	11n20SISO	Ant1	5200	5200.007	1.34615	±20	PASS
NTNV	11n20SISO	Ant1	5240	5240.004	0.76336	±20	PASS
NTNV	11n20SISO	Ant1	5260	5260.006	1.14068	±20	PASS
NTNV	11n20SISO	Ant1	5300	5300.003	0.56604	±20	PASS
NTNV	11n20SISO	Ant1	5320	5320.004	0.75188	±20	PASS
NTNV	11n20SISO	Ant1	5500	5500.004	0.72727	±20	PASS
NTNV	11n20SISO	Ant1	5600	5600.006	1.07143	±20	PASS
NTNV	11n20SISO	Ant1	5700	5700.005	0.87719	±20	PASS
NTNV	11n40SISO	Ant1	5190	5190.006	1.15607	±20	PASS
NTNV	11n40SISO	Ant1	5230	5230.005	0.95602	±20	PASS
NTNV	11n40SISO	Ant1	5270	5270.005	0.94877	±20	PASS
NTNV	11n40SISO	Ant1	5310	5310.004	0.75330	±20	PASS
NTNV	11n40SISO	Ant1	5510	5510.004	0.72595	±20	PASS
NTNV	11n40SISO	Ant1	5590	5590.004	0.71556	±20	PASS
NTNV	11n40SISO	Ant1	5670	5670.005	0.88183	±20	PASS

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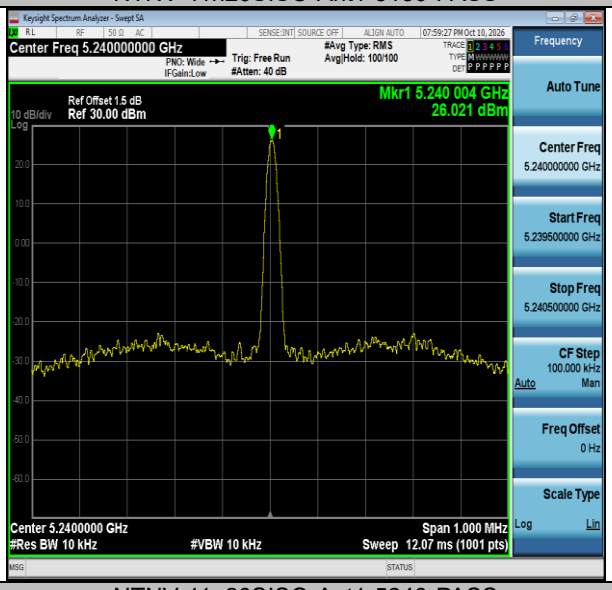
Test Graphs



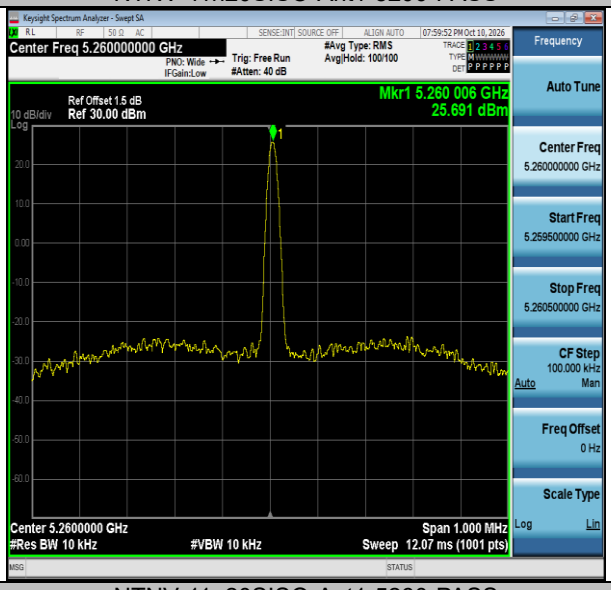
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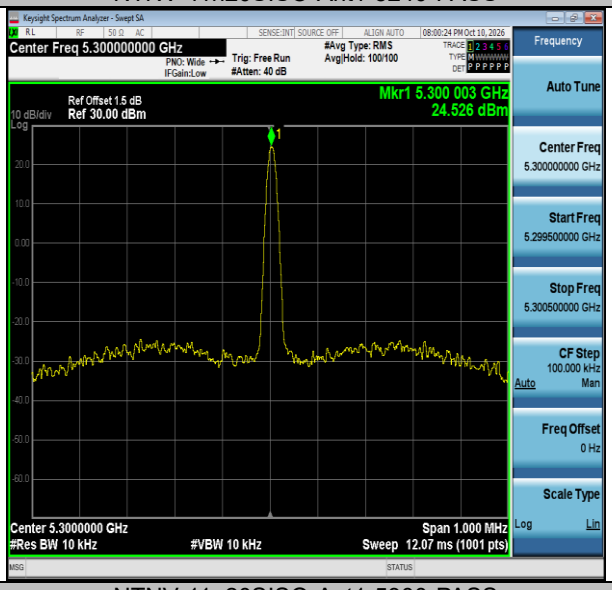
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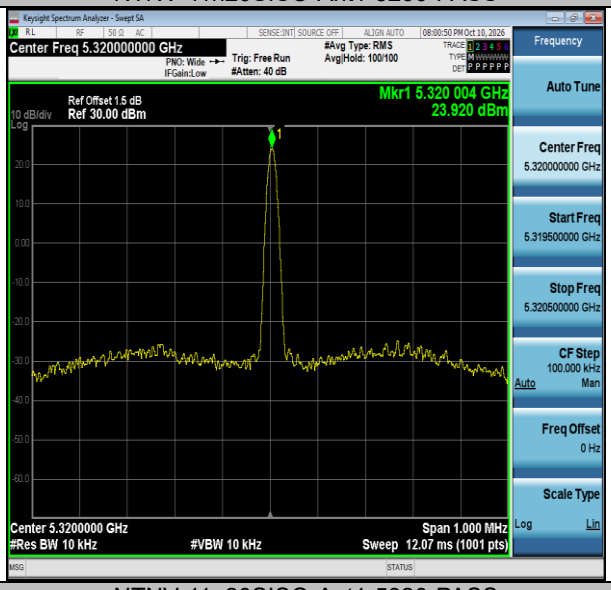
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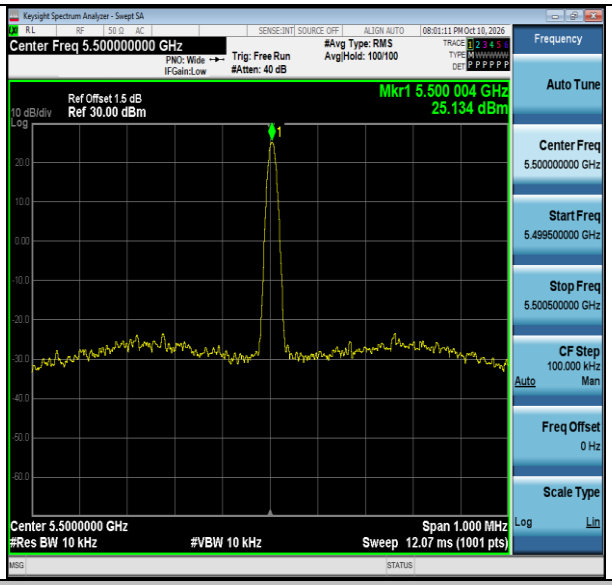


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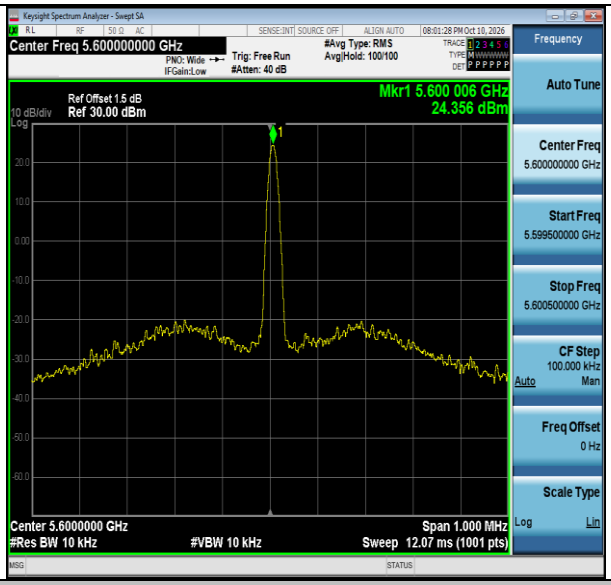


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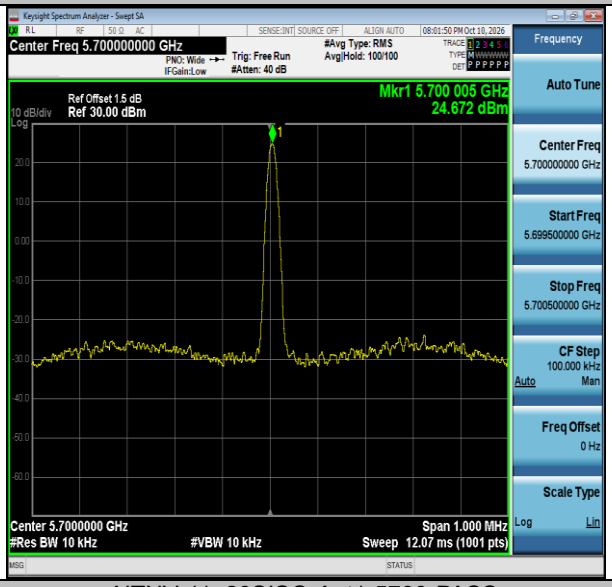
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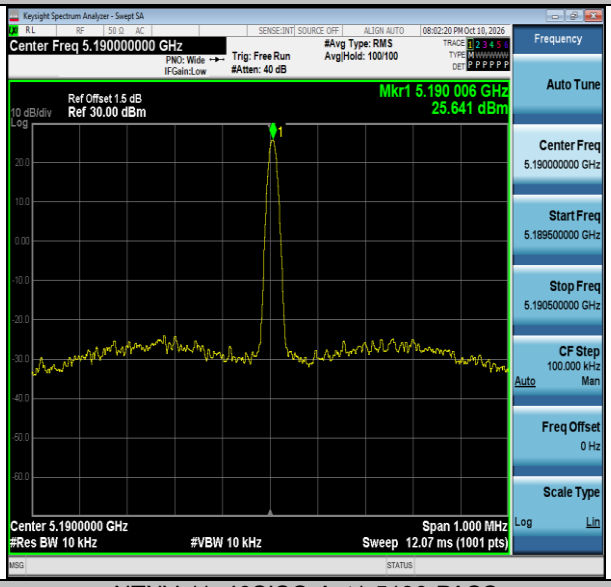
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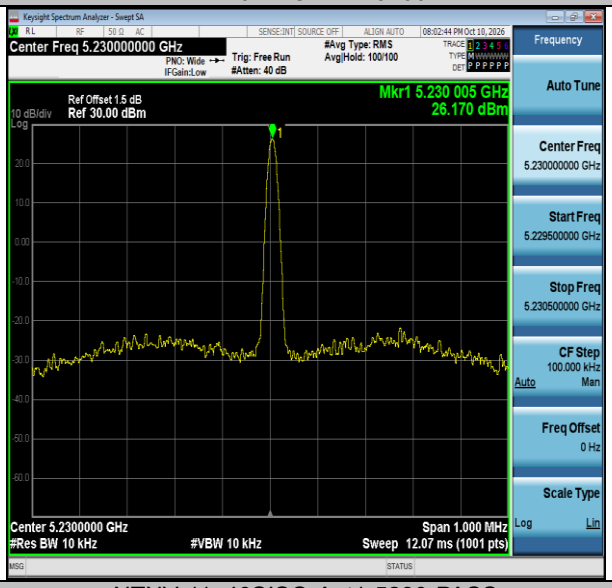
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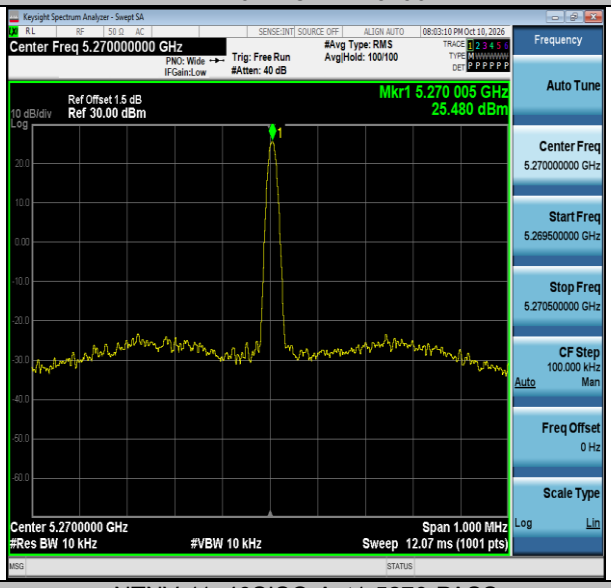
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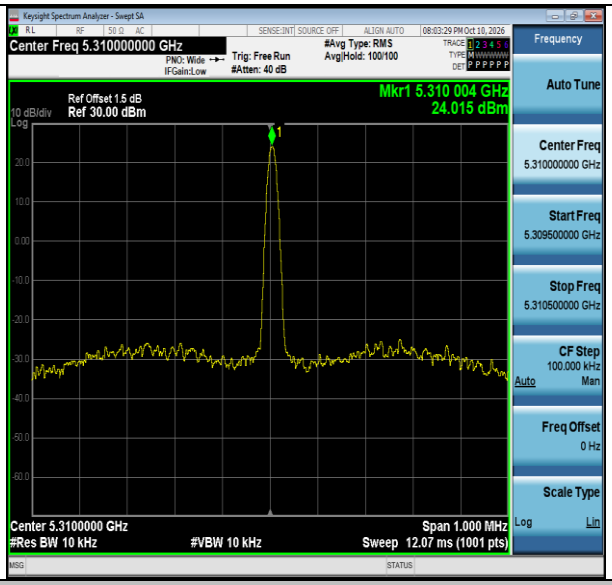


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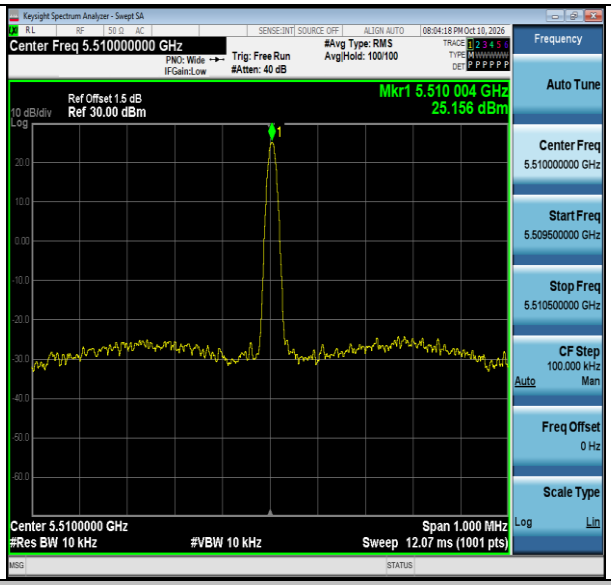


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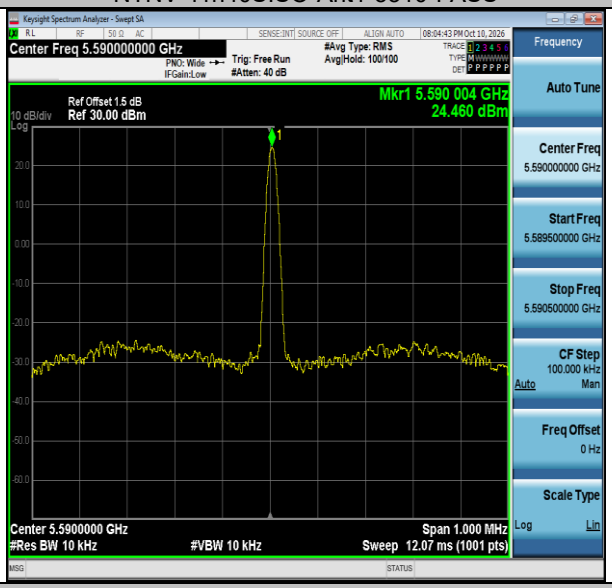
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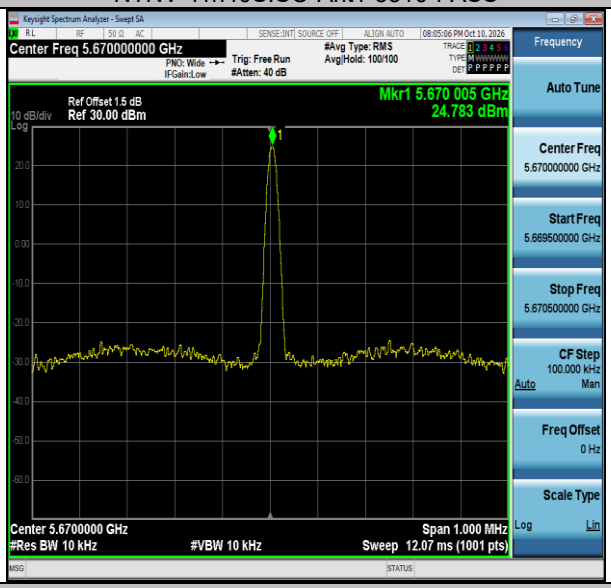
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NTNV-11n40SISO-Ant1-5510-PASS



NTNV-11n40SISO-Ant1-5590-PASS



NTNV-11n40SISO-Ant1-5670-PASS

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Antenna Power
Test Result

Test Condition	Test Mode	ANT	Freq.[MHz]	Result [dBm/MHz]	Result [mW/MHz]	Limit [mW/MHz]	Verdict
NTNV	11a	Ant1	5180	2.15	1.6406	≤10	PASS
NTNV	11a	Ant1	5200	2.31	1.7022	≤10	PASS
NTNV	11a	Ant1	5240	2.36	1.7219	≤10	PASS
NTNV	11a	Ant1	5260	2.89	1.9454	≤10	PASS
NTNV	11a	Ant1	5300	2.97	1.9815	≤10	PASS
NTNV	11a	Ant1	5320	2.75	1.8836	≤10	PASS
NTNV	11a	Ant1	5500	3.56	2.2699	≤10	PASS
NTNV	11a	Ant1	5600	3.75	2.3714	≤10	PASS
NTNV	11a	Ant1	5700	3.35	2.1627	≤10	PASS
NTNV	11n20SISO	Ant1	5180	1.68	1.4723	≤10	PASS
NTNV	11n20SISO	Ant1	5200	1.79	1.5101	≤10	PASS
NTNV	11n20SISO	Ant1	5240	1.73	1.4894	≤10	PASS
NTNV	11n20SISO	Ant1	5260	2.30	1.6982	≤10	PASS
NTNV	11n20SISO	Ant1	5300	2.57	1.8072	≤10	PASS
NTNV	11n20SISO	Ant1	5320	2.31	1.7022	≤10	PASS
NTNV	11n20SISO	Ant1	5500	3.34	2.1577	≤10	PASS
NTNV	11n20SISO	Ant1	5600	3.88	2.4434	≤10	PASS
NTNV	11n20SISO	Ant1	5700	2.96	1.9770	≤10	PASS
NTNV	11n40SISO	Ant1	5190	-0.24	0.9462	≤5	PASS
NTNV	11n40SISO	Ant1	5230	0.26	1.0617	≤5	PASS
NTNV	11n40SISO	Ant1	5270	-0.08	0.9817	≤5	PASS
NTNV	11n40SISO	Ant1	5310	0.26	1.0617	≤5	PASS
NTNV	11n40SISO	Ant1	5510	2.72	1.8707	≤5	PASS
NTNV	11n40SISO	Ant1	5590	2.40	1.7378	≤5	PASS
NTNV	11n40SISO	Ant1	5670	2.55	1.7989	≤5	PASS

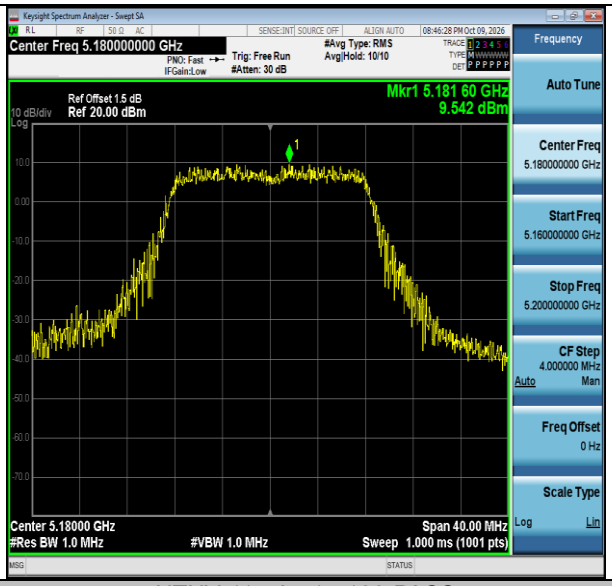
Test Condition	Test Mode	ANT	Freq.[MHz]	Power [mW/MHz]	RatedPower [mW/MHz]	Result [%]	Limit [%]	Verdict
NTNV	11a	Ant1	5180	1.6406	2	-17.97	-80 to +20	PASS
NTNV	11a	Ant1	5200	1.7022	2	-14.89	-80 to +20	PASS
NTNV	11a	Ant1	5240	1.7219	2	-13.905	-80 to +20	PASS
NTNV	11a	Ant1	5260	1.9454	2	-2.73	-80 to +20	PASS
NTNV	11a	Ant1	5300	1.9815	2	-0.925	-80 to +20	PASS
NTNV	11a	Ant1	5320	1.8836	2	-5.82	-80 to +20	PASS
NTNV	11a	Ant1	5500	2.2699	2	13.495	-50 to +50	PASS
NTNV	11a	Ant1	5600	2.3714	2	18.57	-50 to +50	PASS
NTNV	11a	Ant1	5700	2.1627	2	8.135	-50 to +50	PASS
NTNV	11n20SISO	Ant1	5180	1.4723	2	-26.385	-80 to +20	PASS
NTNV	11n20SISO	Ant1	5200	1.5101	2	-24.495	-80 to +20	PASS
NTNV	11n20SISO	Ant1	5240	1.4894	2	-25.53	-80 to +20	PASS
NTNV	11n20SISO	Ant1	5260	1.6982	2	-15.09	-80 to +20	PASS
NTNV	11n20SISO	Ant1	5300	1.8072	2	-9.64	-80 to +20	PASS
NTNV	11n20SISO	Ant1	5320	1.7022	2	-14.89	-80 to +20	PASS
NTNV	11n20SISO	Ant1	5500	2.1577	2	7.885	-50 to +50	PASS
NTNV	11n20SISO	Ant1	5600	2.4434	2	22.17	-50 to +50	PASS
NTNV	11n20SISO	Ant1	5700	1.977	2	-1.15	-50 to +50	PASS
NTNV	11n40SISO	Ant1	5190	0.9462	2	-52.69	-80 to +20	PASS
NTNV	11n40SISO	Ant1	5230	1.0617	2	-46.915	-80 to +20	PASS
NTNV	11n40SISO	Ant1	5270	0.9817	2	-50.915	-80 to +20	PASS
NTNV	11n40SISO	Ant1	5310	1.0617	2	-46.915	-80 to +20	PASS
NTNV	11n40SISO	Ant1	5510	1.8707	2	-6.465	-50 to +50	PASS
NTNV	11n40SISO	Ant1	5590	1.7378	2	-13.11	-50 to +50	PASS
NTNV	11n40SISO	Ant1	5670	1.7989	2	-10.055	-50 to +50	PASS

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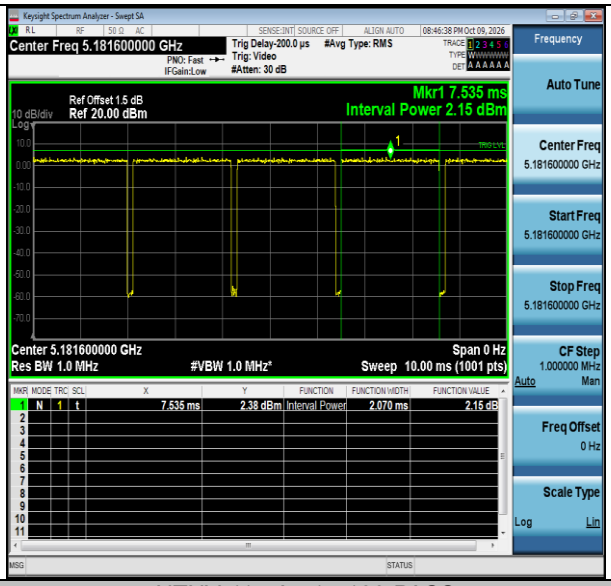
Test Condition	Test Mode	ANT	Freq.[MHz]	Result [mW/MHz]	EIRP [mW/MHz]	Limit [mW/MHz]	Verdict
NTNV	11a	Ant1	5180	1.6406	6.9183	≤10	PASS
NTNV	11a	Ant1	5200	1.7022	7.1779	≤10	PASS
NTNV	11a	Ant1	5240	1.7219	7.2611	≤10	PASS
NTNV	11a	Ant1	5260	1.9454	8.2035	≤10	PASS
NTNV	11a	Ant1	5300	1.9815	8.3560	≤10	PASS
NTNV	11a	Ant1	5320	1.8836	7.9433	≤10	PASS
NTNV	11a	Ant1	5500	2.2699	10.8393	≤50	PASS
NTNV	11a	Ant1	5600	2.3714	11.3240	≤50	PASS
NTNV	11a	Ant1	5700	2.1627	10.3276	≤50	PASS
NTNV	11n20SISO	Ant1	5180	1.4723	6.2087	≤10	PASS
NTNV	11n20SISO	Ant1	5200	1.5101	6.3680	≤10	PASS
NTNV	11n20SISO	Ant1	5240	1.4894	6.2806	≤10	PASS
NTNV	11n20SISO	Ant1	5260	1.6982	7.1614	≤10	PASS
NTNV	11n20SISO	Ant1	5300	1.8072	7.6208	≤10	PASS
NTNV	11n20SISO	Ant1	5320	1.7022	7.1779	≤10	PASS
NTNV	11n20SISO	Ant1	5500	2.1577	10.3039	≤50	PASS
NTNV	11n20SISO	Ant1	5600	2.4434	11.6681	≤50	PASS
NTNV	11n20SISO	Ant1	5700	1.9770	9.4406	≤50	PASS
NTNV	11n40SISO	Ant1	5190	0.9462	3.9902	≤5	PASS
NTNV	11n40SISO	Ant1	5230	1.0617	4.4771	≤5	PASS
NTNV	11n40SISO	Ant1	5270	0.9817	4.1400	≤5	PASS
NTNV	11n40SISO	Ant1	5310	1.0617	4.4771	≤5	PASS
NTNV	11n40SISO	Ant1	5510	1.8707	8.9331	≤25	PASS
NTNV	11n40SISO	Ant1	5590	1.7378	8.2985	≤25	PASS
NTNV	11n40SISO	Ant1	5670	1.7989	8.5901	≤25	PASS

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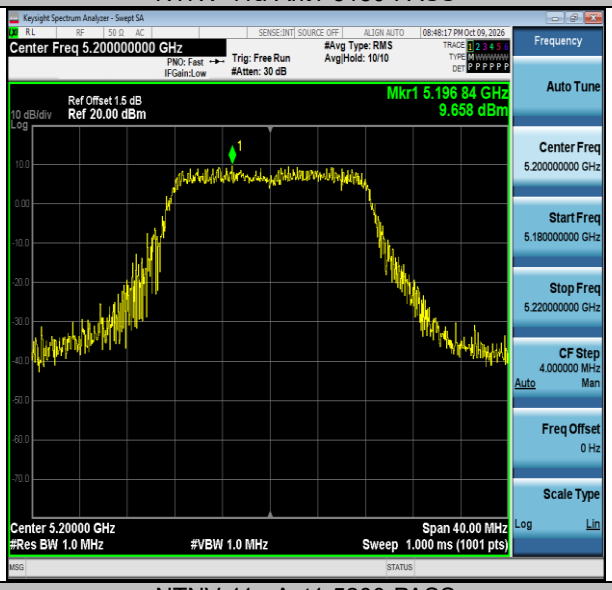
Test Graphs



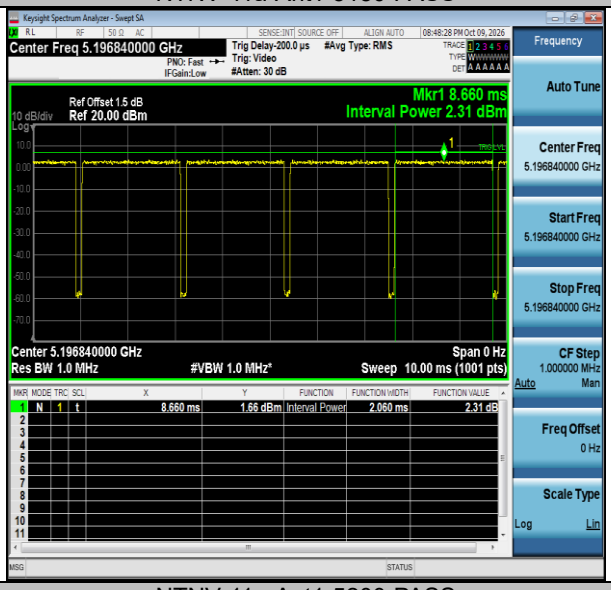
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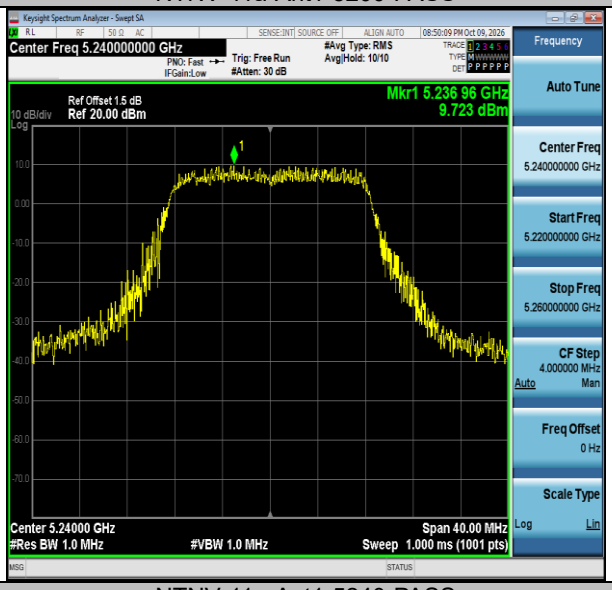
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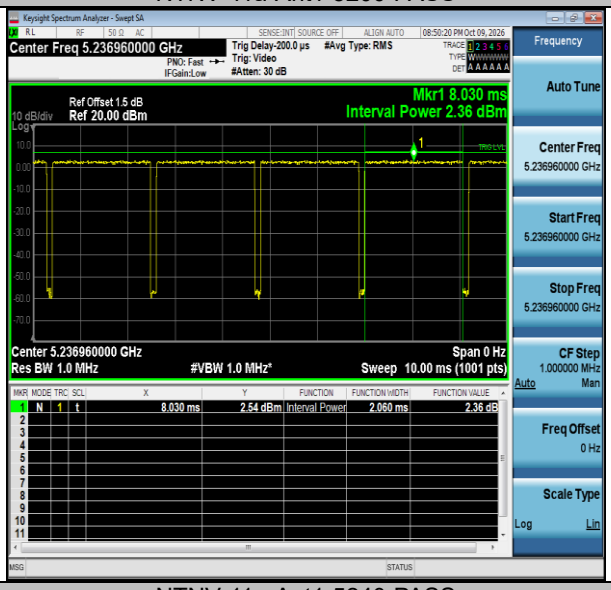
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NTNV-11a-Ant1-5200-PASS

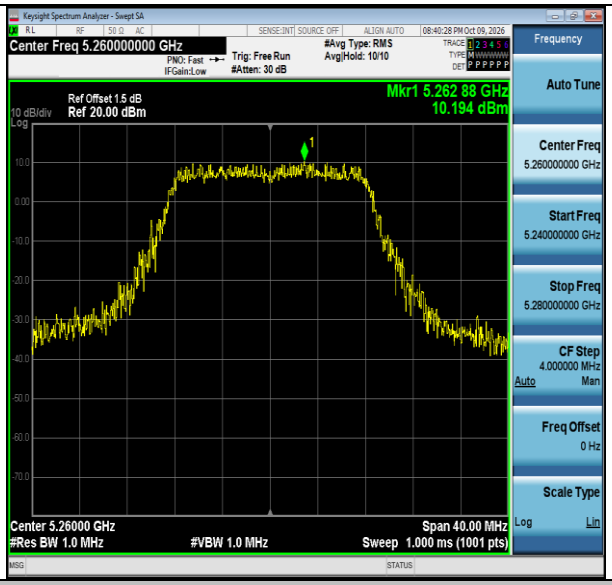


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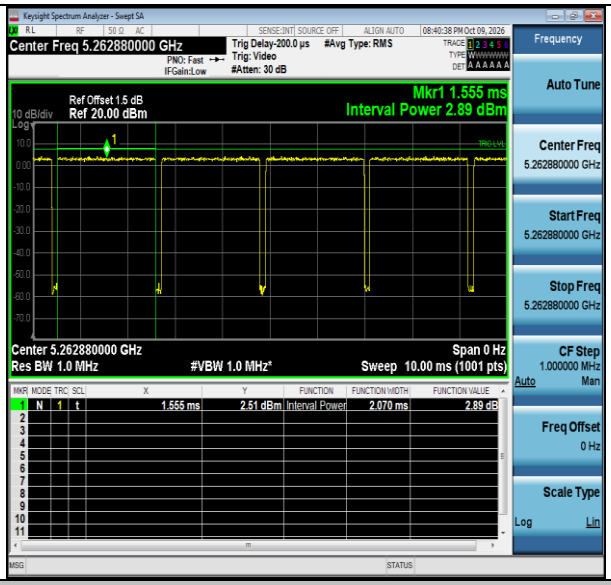


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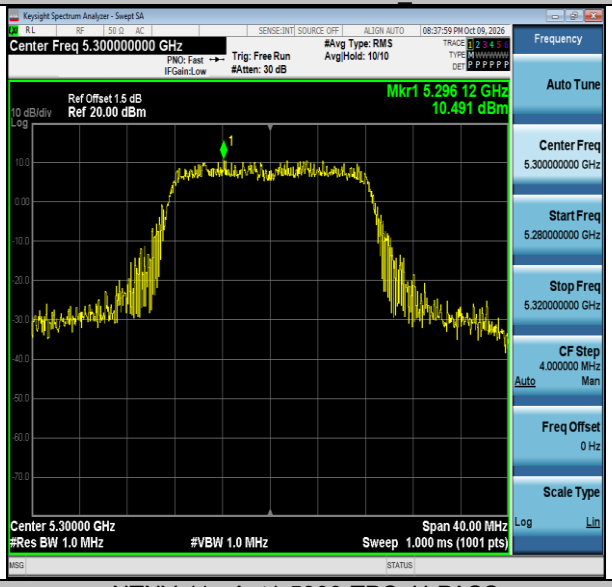
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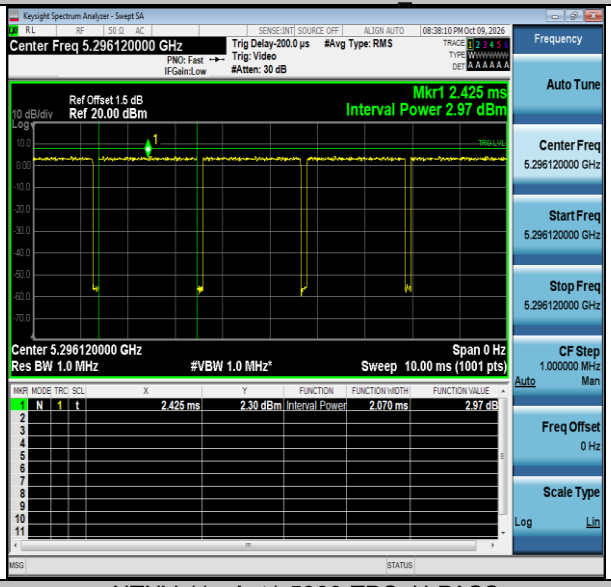
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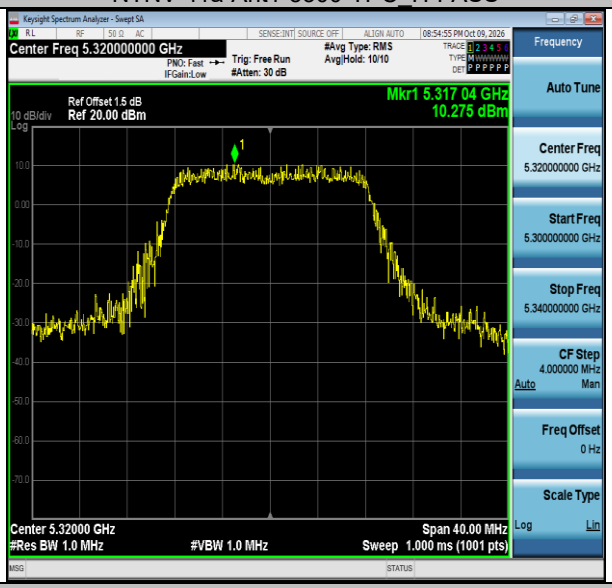
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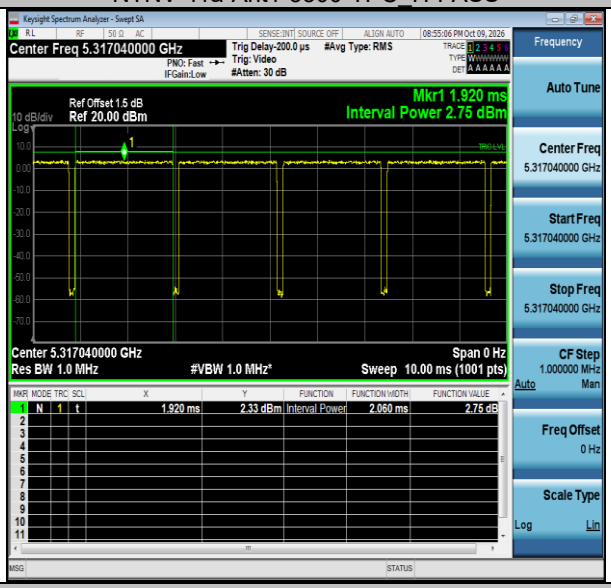
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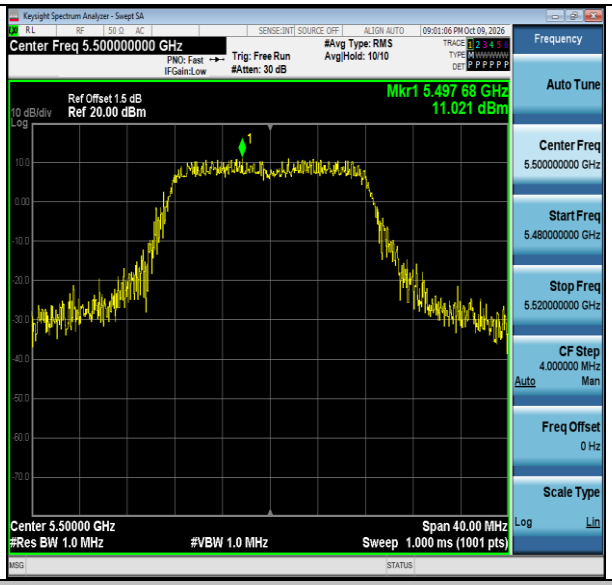


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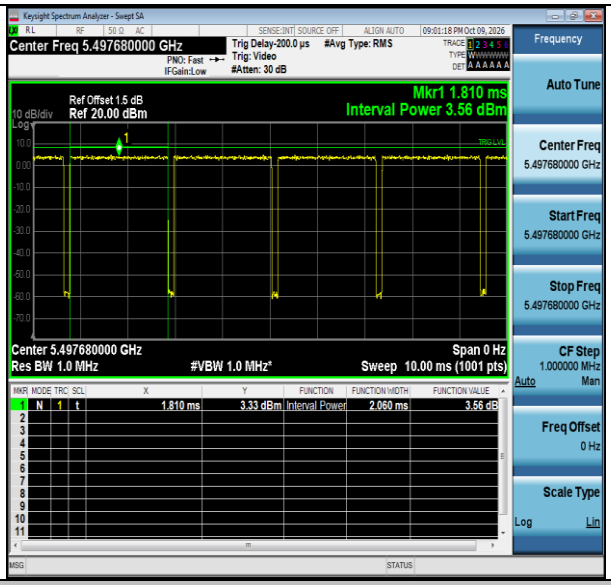


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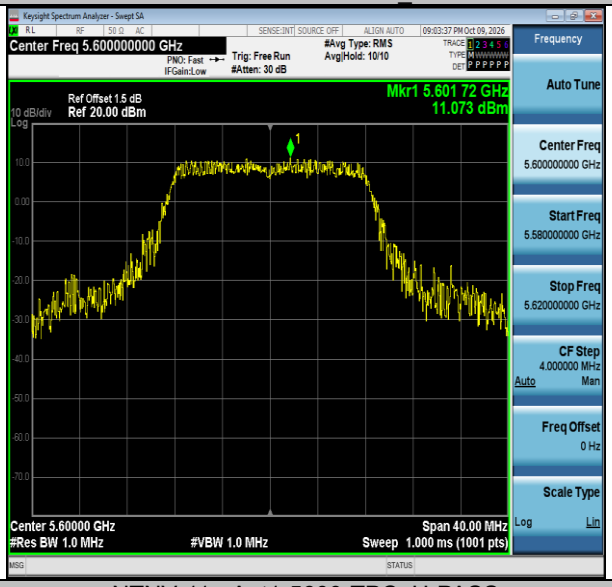
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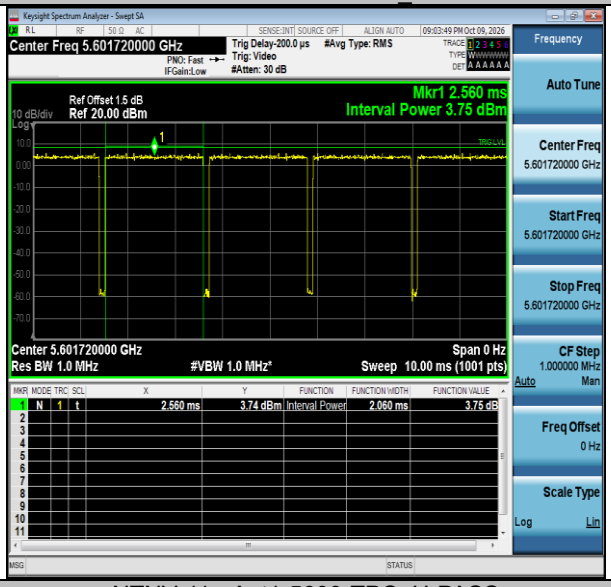
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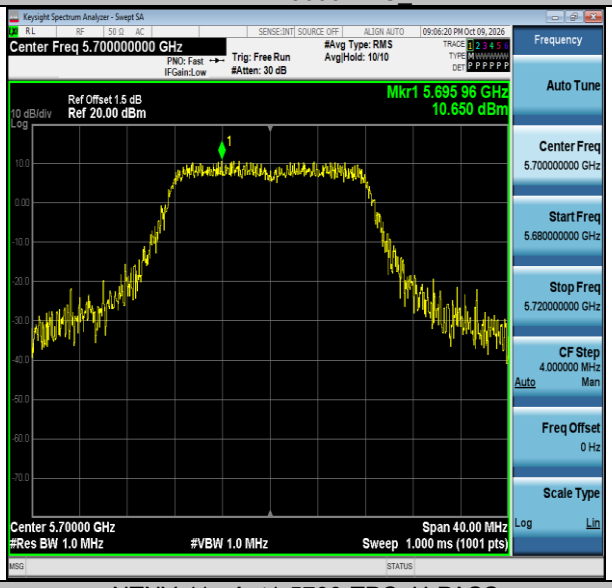
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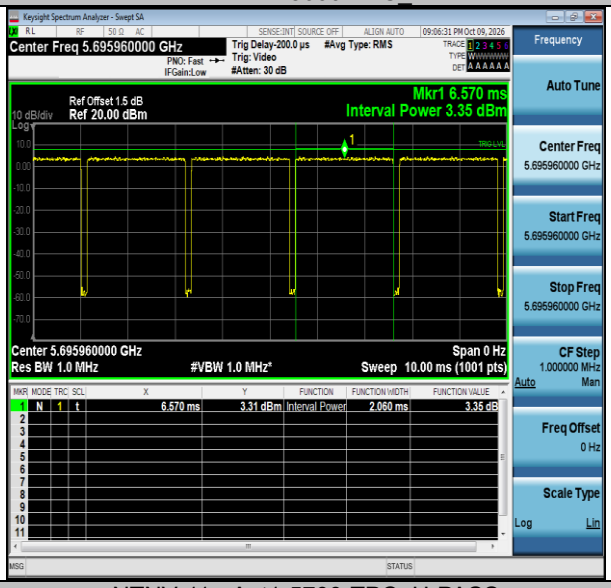
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NTNV-11a-Ant1-5600-TPC_H-PASS

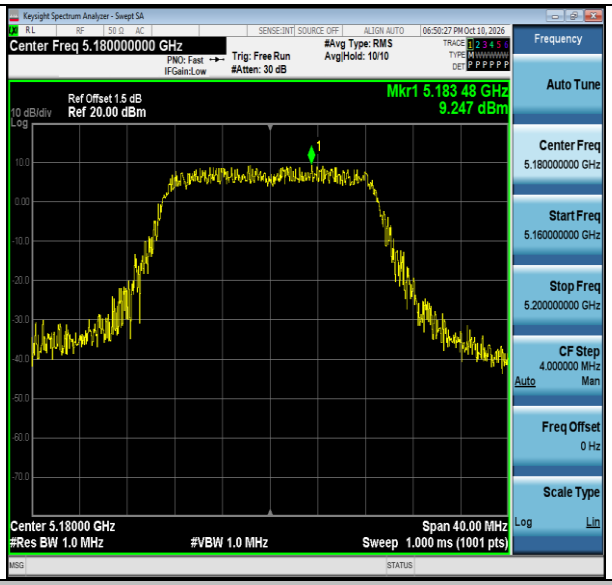


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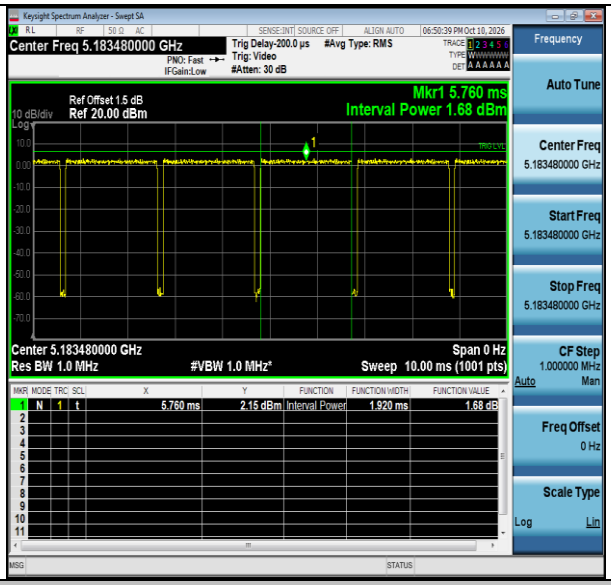


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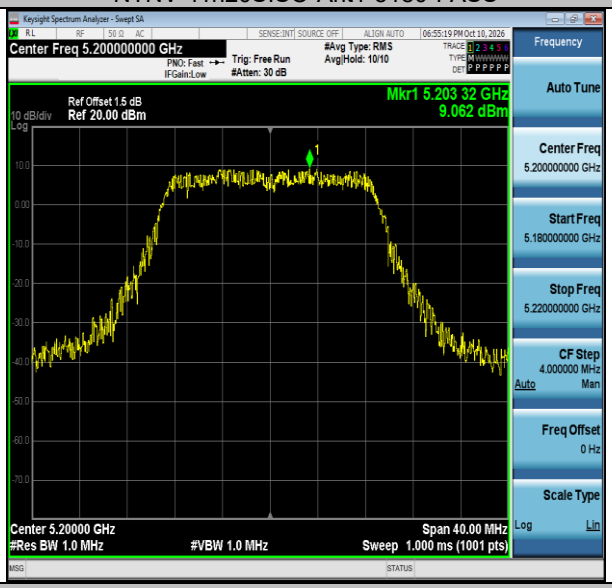
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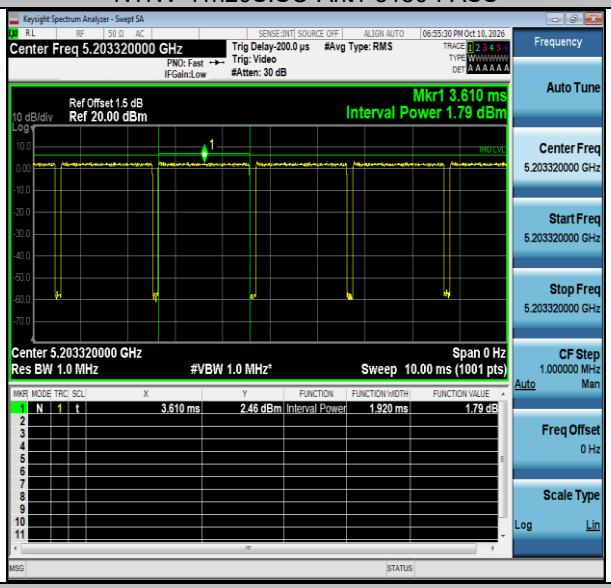
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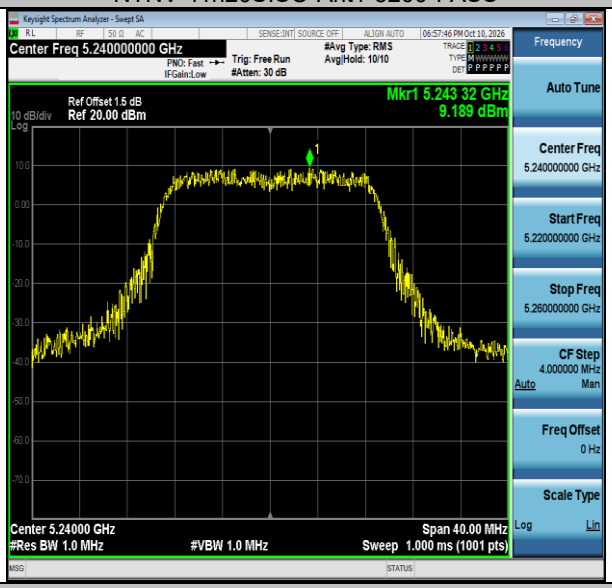
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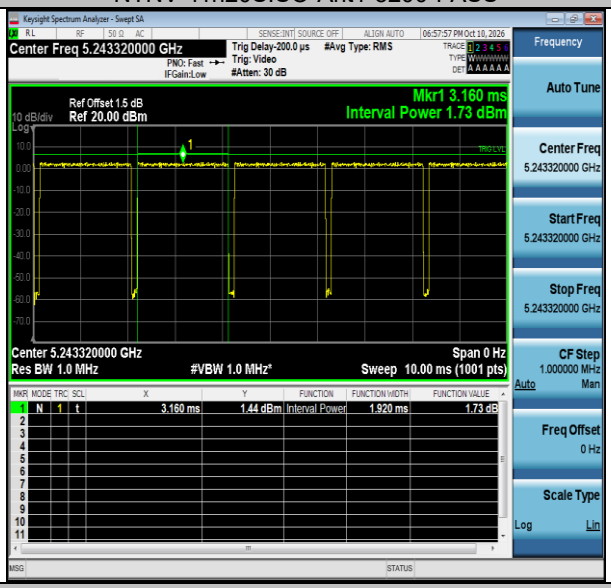
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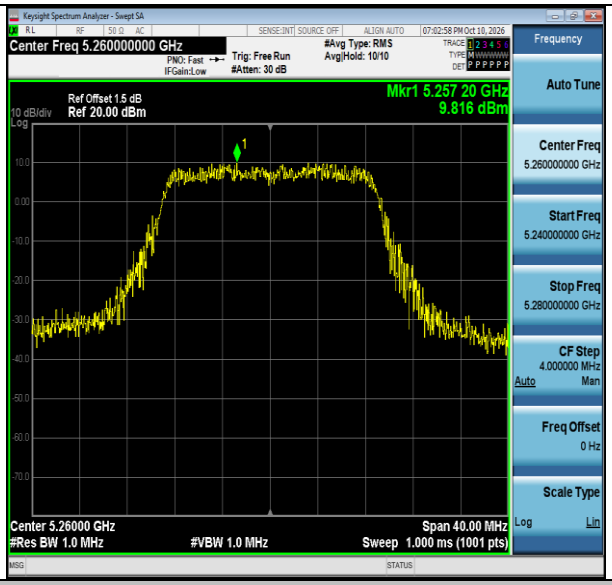


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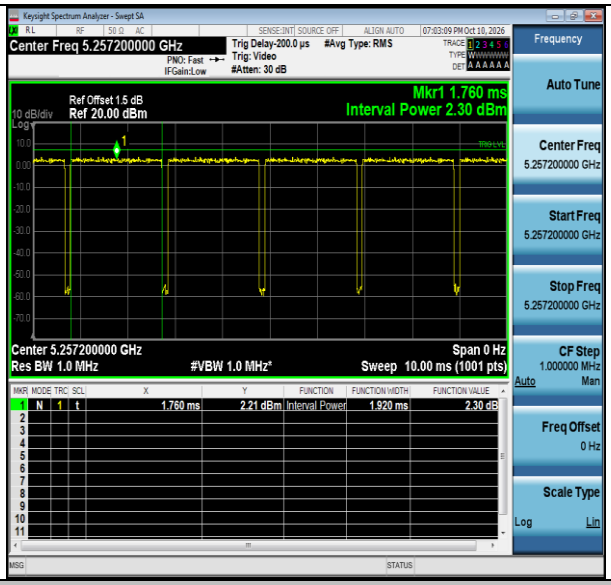


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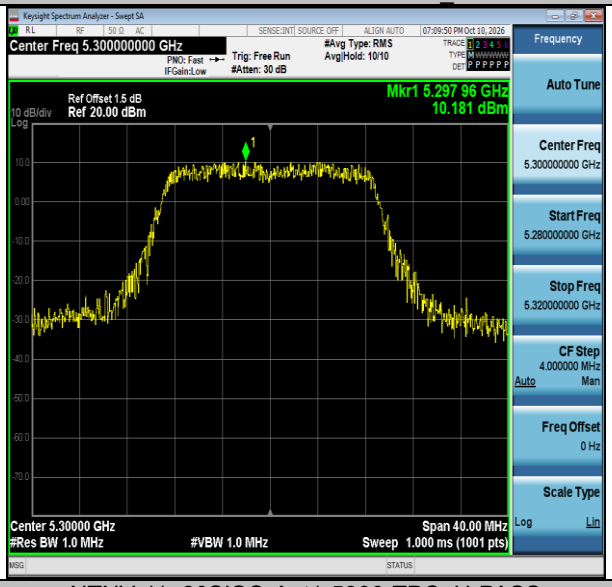
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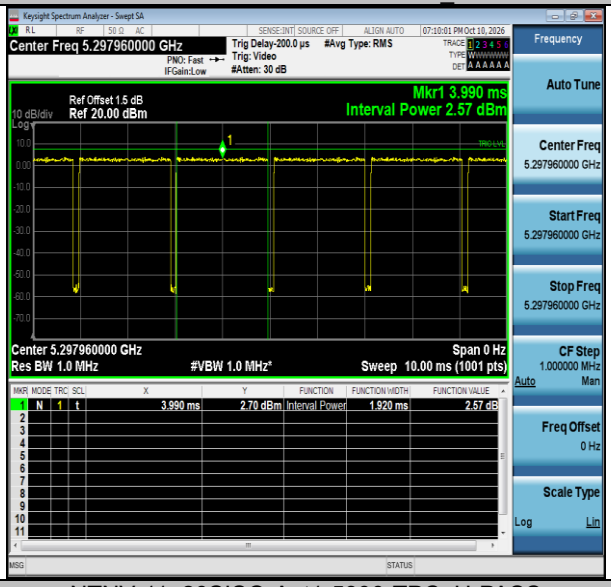
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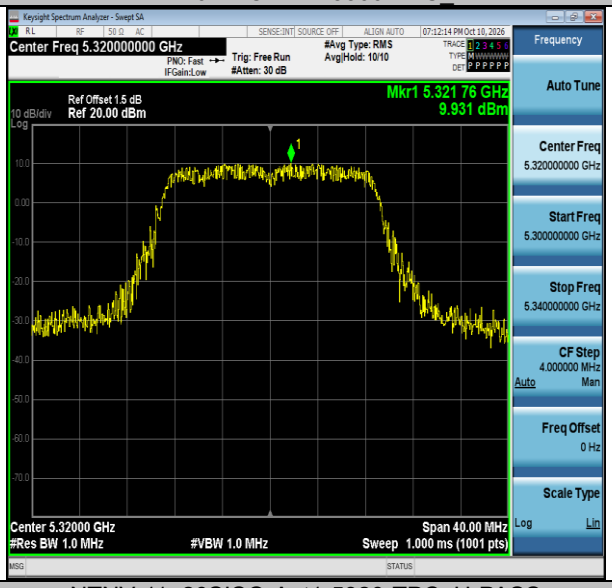
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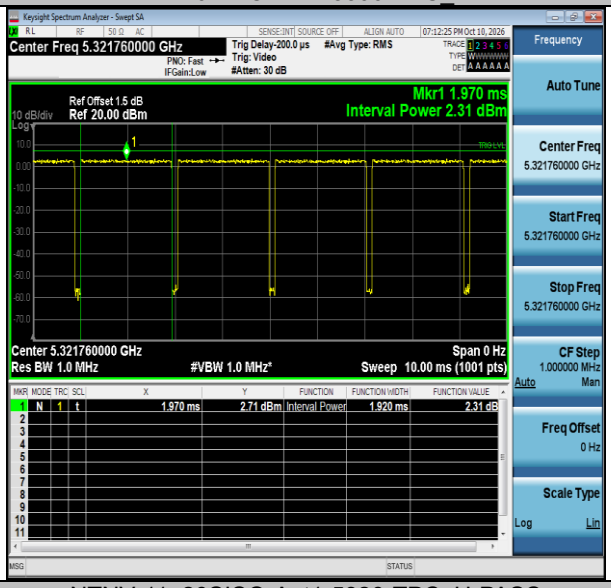
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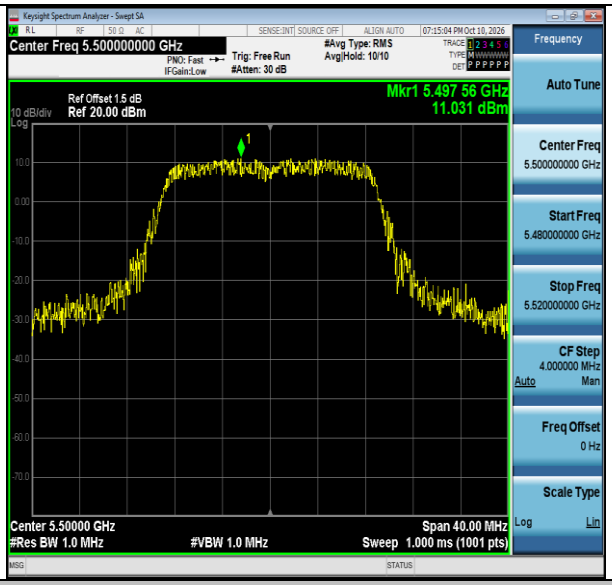


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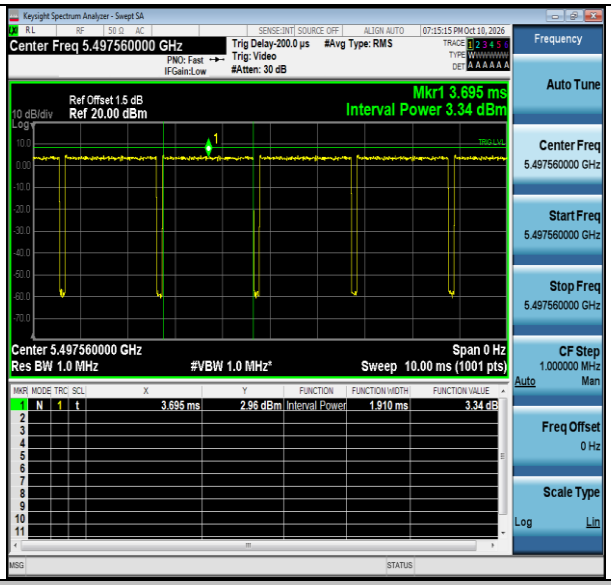


NTNV-11n20SISO-Ant1-5320-TPC_H-PASS

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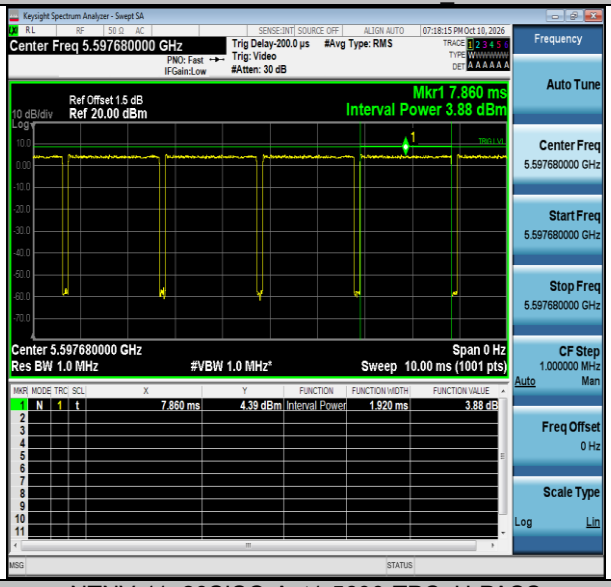
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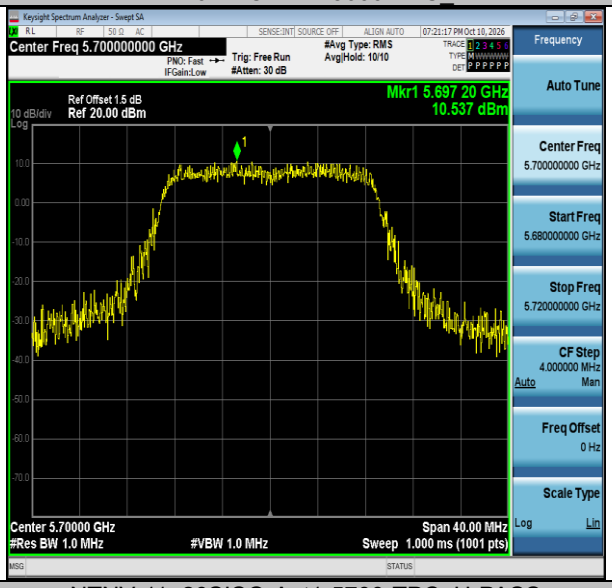
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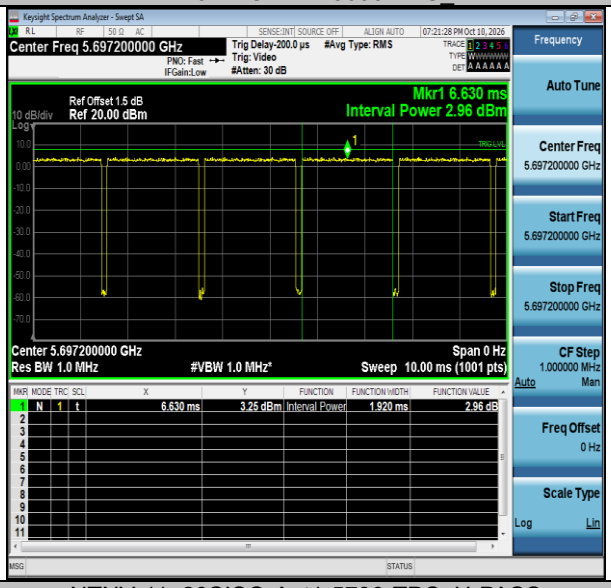
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NTNV-11n20SISO-Ant1-5600-TPC_H-PASS



NTNV-11n20SISO-Ant1-5700-TPC_H-PASS

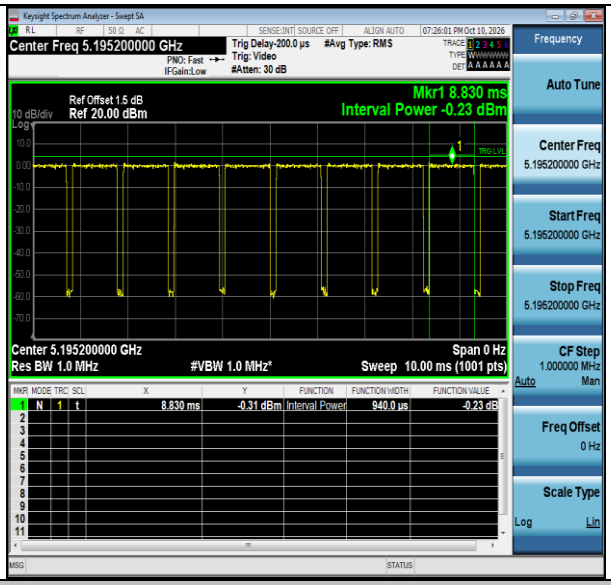


NTNV-11n20SISO-Ant1-5700-TPC_H-PASS

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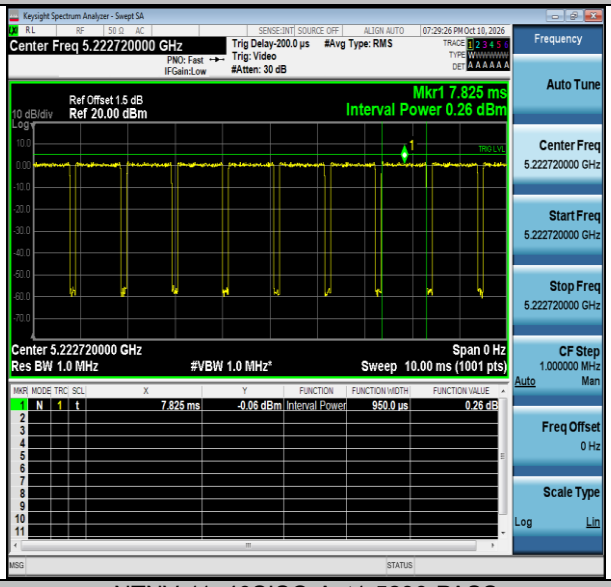
NTNV-11n40SISO-Ant1-5190-PASS



NTNV-11n40SISO-Ant1-5190-PASS



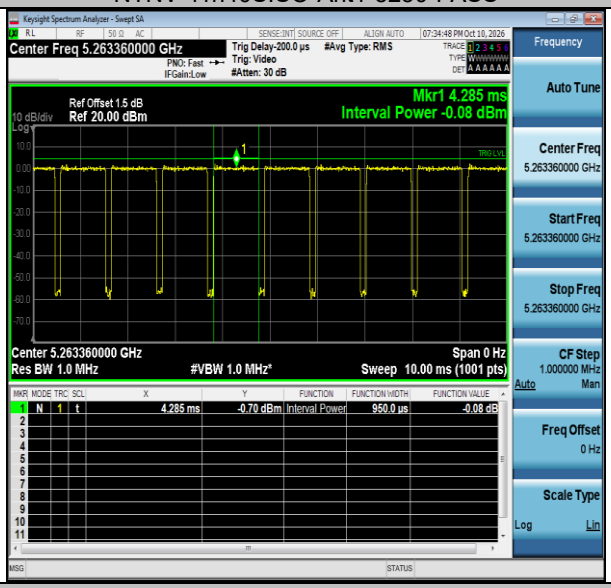
NTNV-11n40SISO-Ant1-5230-PASS



NTNV-11n40SISO-Ant1-5230-PASS



NTNV-11n40SISO-Ant1-5270-TPC_H-PASS

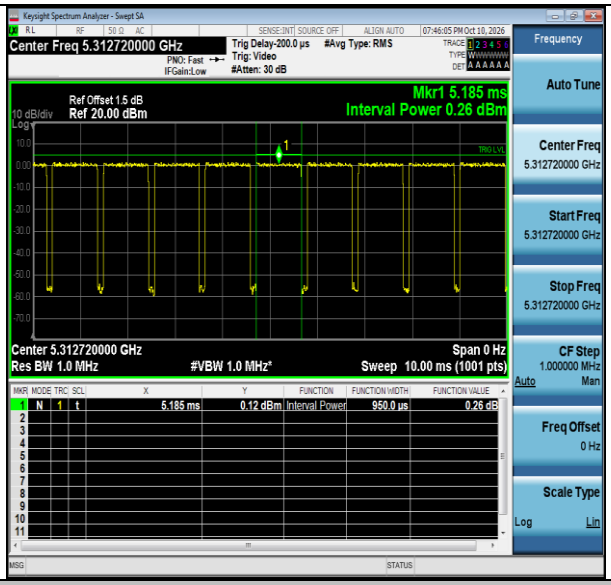


NTNV-11n40SISO-Ant1-5270-TPC_H-PASS

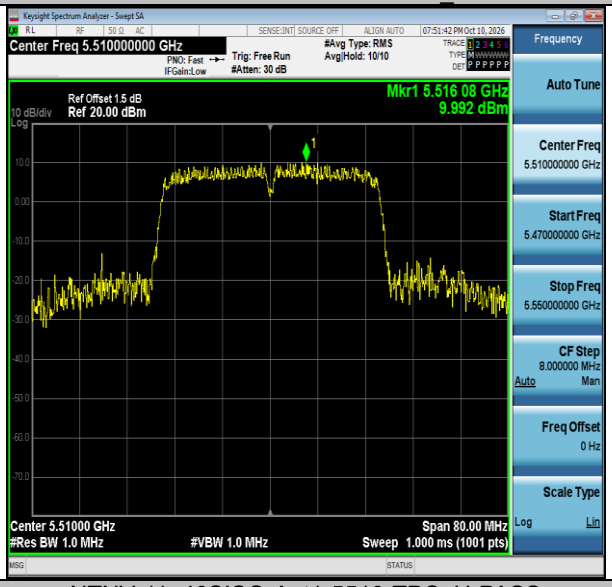
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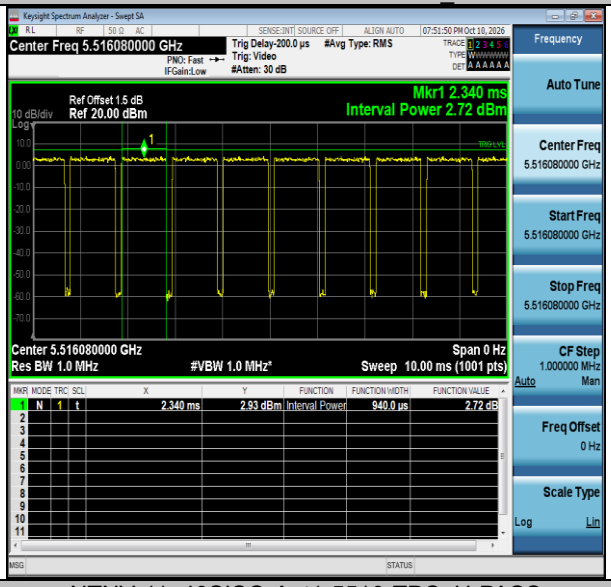
NTNV-11n40SISO-Ant1-5310-TPC_H-PASS



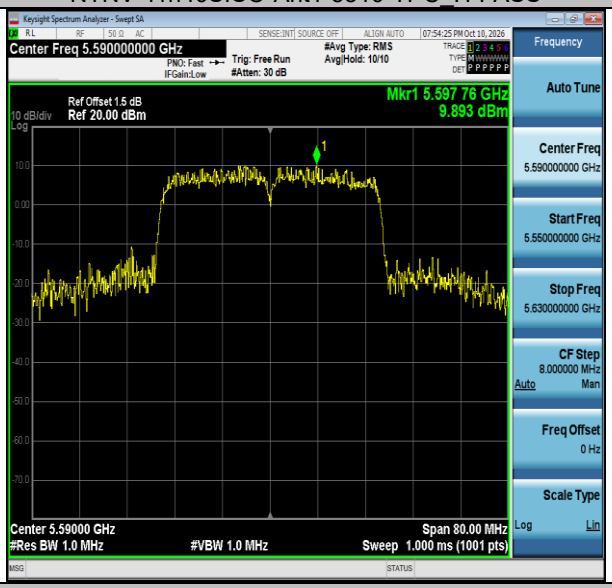
NTNV-11n40SISO-Ant1-5310-TPC_H-PASS



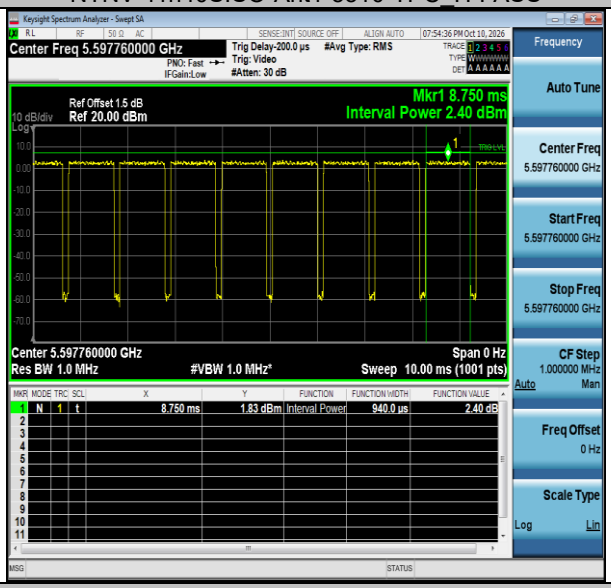
NTNV-11n40SISO-Ant1-5510-TPC_H-PASS



NTNV-11n40SISO-Ant1-5510-TPC_H-PASS

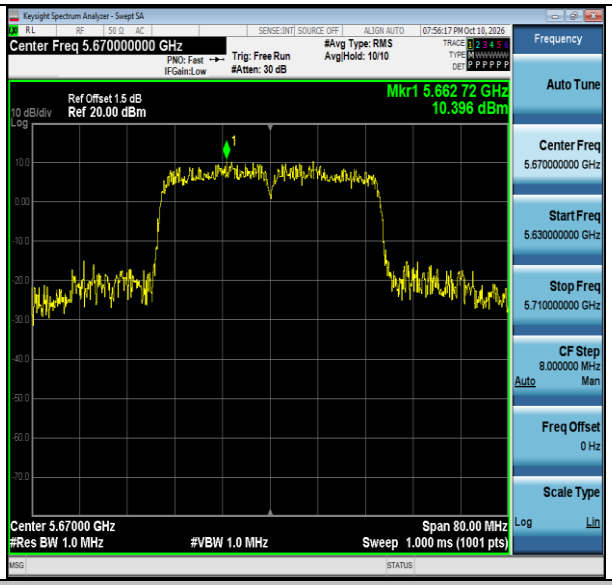


NTNV-11n40SISO-Ant1-5590-TPC_H-PASS

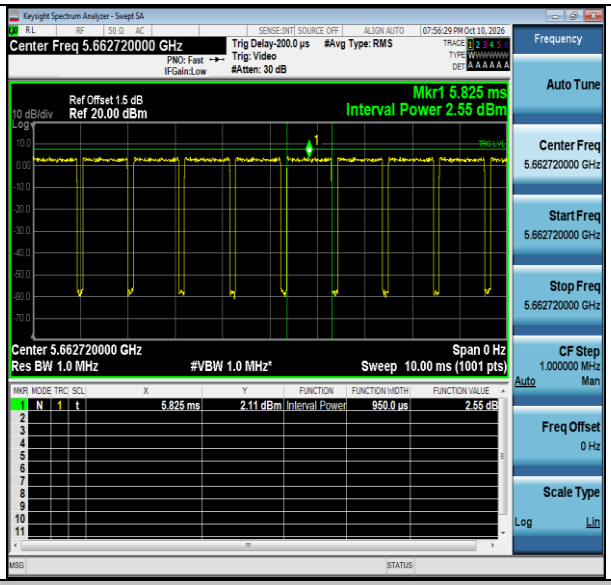


NTNV-11n40SISO-Ant1-5590-TPC_H-PASS

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NTNV-11n40SISO-Ant1-5670-TPC_H-PASS



NTNV-11n40SISO-Ant1-5670-TPC_H-PASS

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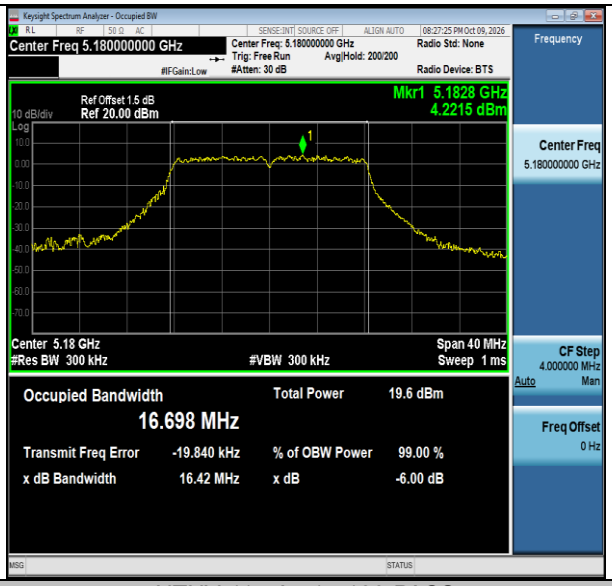
Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	11a	Ant1	5180	16.698	≤20	PASS
NTNV	11a	Ant1	5200	16.712	≤20	PASS
NTNV	11a	Ant1	5240	16.648	≤20	PASS
NTNV	11a	Ant1	5260	16.688	≤20	PASS
NTNV	11a	Ant1	5300	16.664	≤20	PASS
NTNV	11a	Ant1	5320	16.674	≤20	PASS
NTNV	11a	Ant1	5500	16.674	≤20	PASS
NTNV	11a	Ant1	5600	16.707	≤20	PASS
NTNV	11a	Ant1	5700	16.651	≤20	PASS
NTNV	11n20SISO	Ant1	5180	17.743	≤20	PASS
NTNV	11n20SISO	Ant1	5200	17.746	≤20	PASS
NTNV	11n20SISO	Ant1	5240	17.776	≤20	PASS
NTNV	11n20SISO	Ant1	5260	17.746	≤20	PASS
NTNV	11n20SISO	Ant1	5300	17.789	≤20	PASS
NTNV	11n20SISO	Ant1	5320	17.764	≤20	PASS
NTNV	11n20SISO	Ant1	5500	17.742	≤20	PASS
NTNV	11n20SISO	Ant1	5600	17.832	≤20	PASS
NTNV	11n20SISO	Ant1	5700	17.749	≤20	PASS
NTNV	11n40SISO	Ant1	5190	35.743	≤40	PASS
NTNV	11n40SISO	Ant1	5230	35.793	≤40	PASS
NTNV	11n40SISO	Ant1	5270	35.802	≤40	PASS
NTNV	11n40SISO	Ant1	5310	35.791	≤40	PASS
NTNV	11n40SISO	Ant1	5510	35.884	≤40	PASS
NTNV	11n40SISO	Ant1	5590	36.002	≤40	PASS
NTNV	11n40SISO	Ant1	5670	35.921	≤40	PASS

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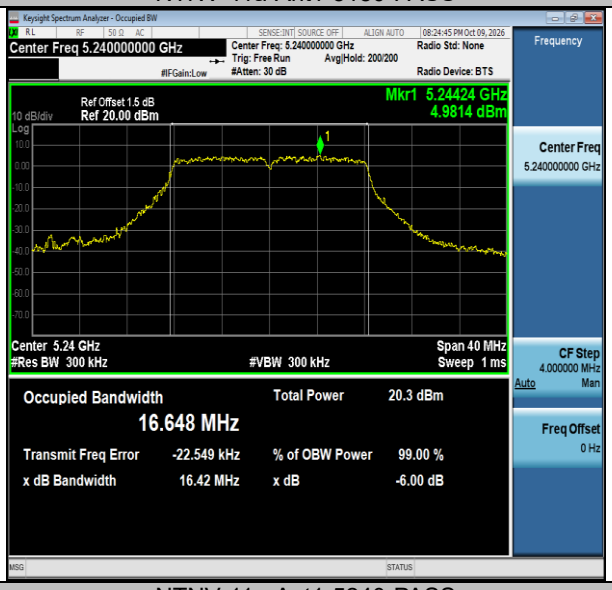
Test Graphs



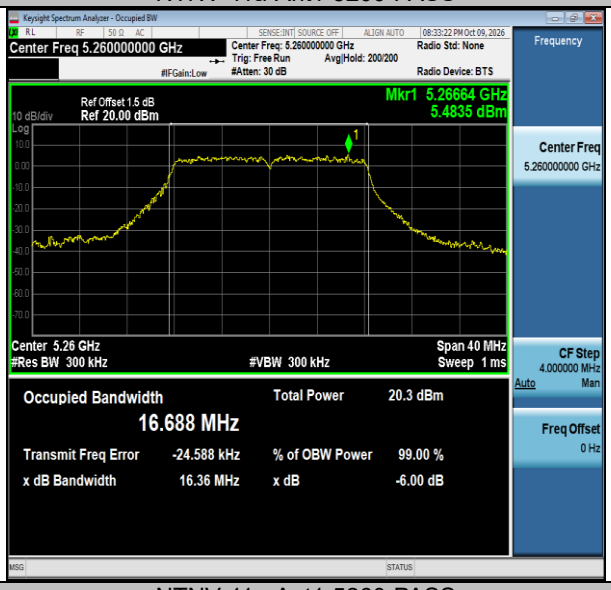
NTNV-11a-Ant1-5180-PASS



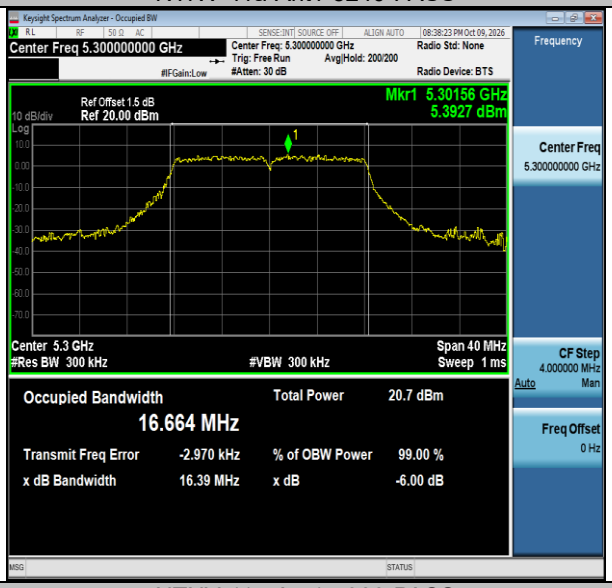
NTNV-11a-Ant1-5200-PASS



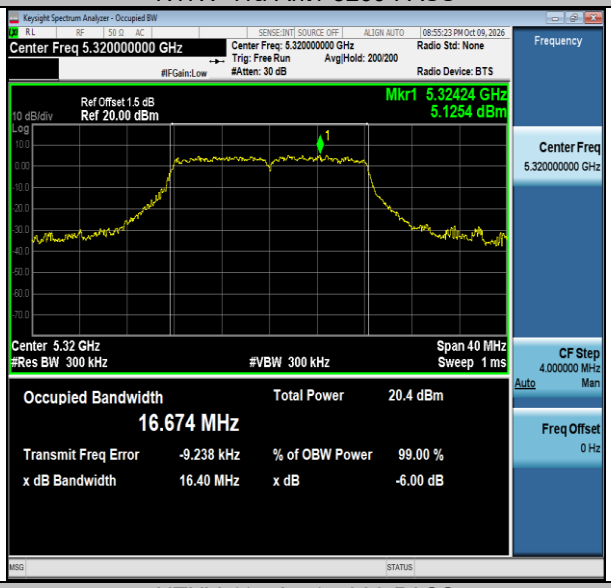
NTNV-11a-Ant1-5240-PASS



NTNV-11a-Ant1-5260-PASS

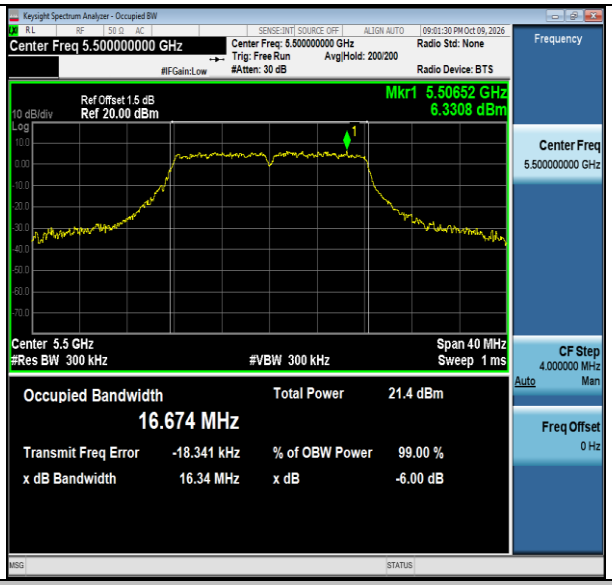


NTNV-11a-Ant1-5300-PASS



NTNV-11a-Ant1-5320-PASS

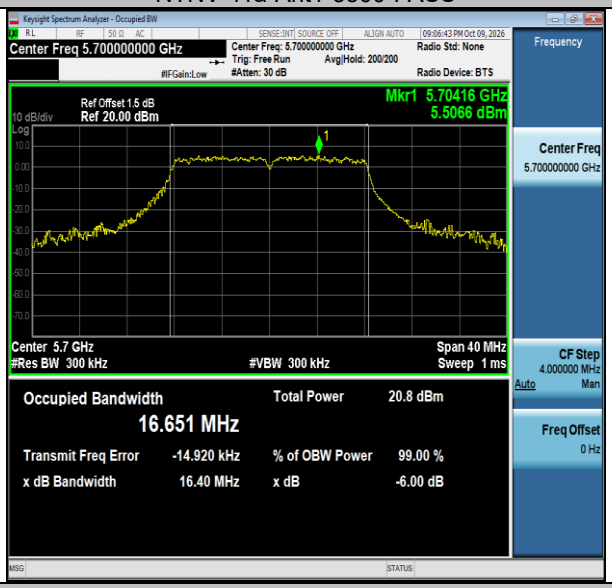
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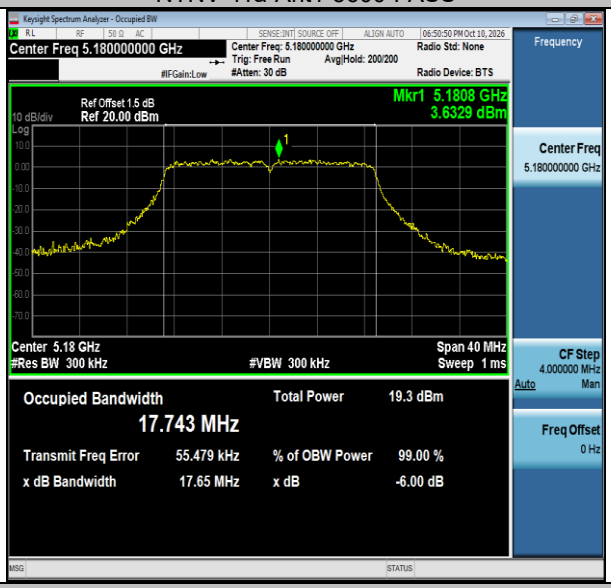
NTNV-11a-Ant1-5500-PASS



NTNV-11a-Ant1-5600-PASS



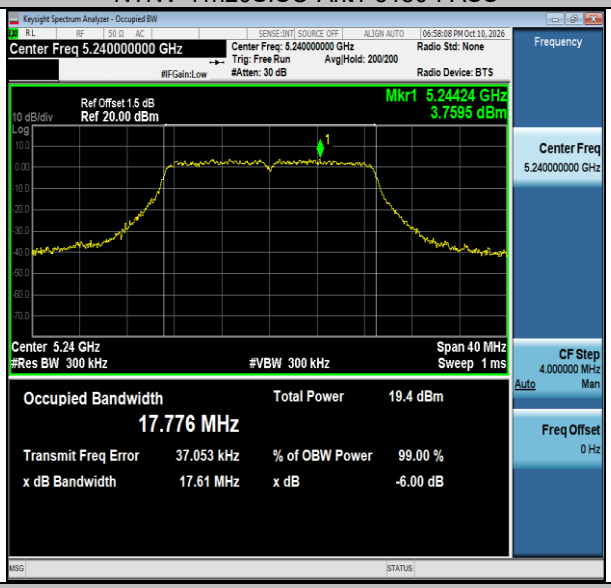
NTNV-11a-Ant1-5700-PASS



NTNV-11n20SISO-Ant1-5180-PASS

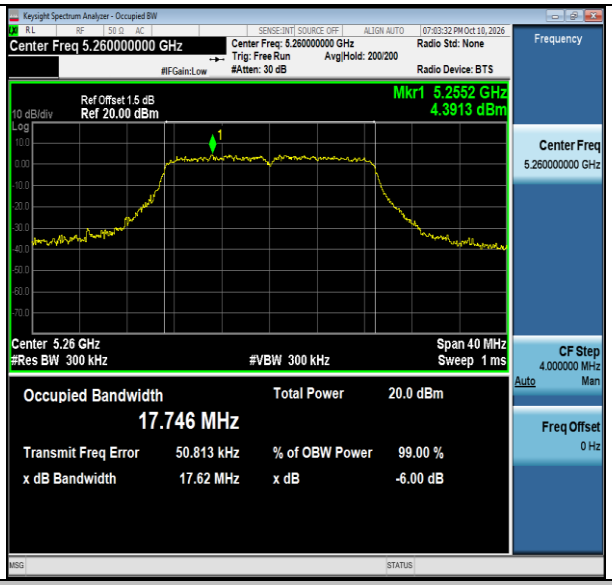


NTNV-11n20SISO-Ant1-5200-PASS

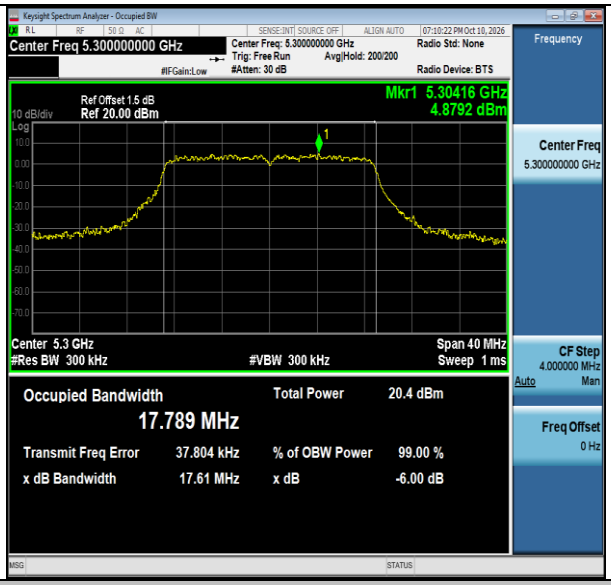


NTNV-11n20SISO-Ant1-5240-PASS

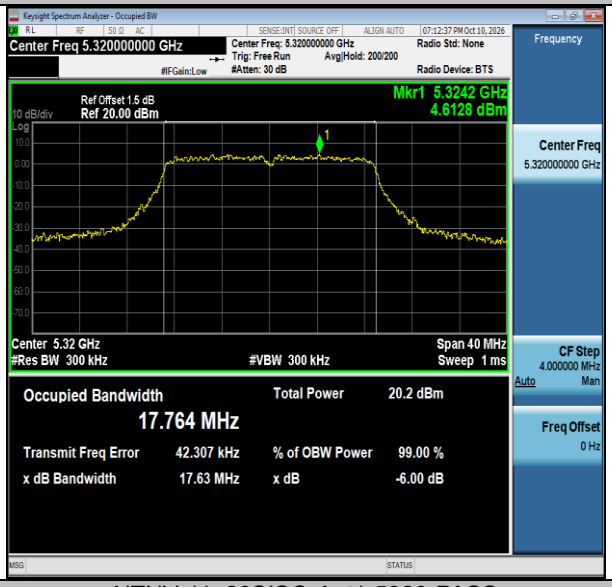
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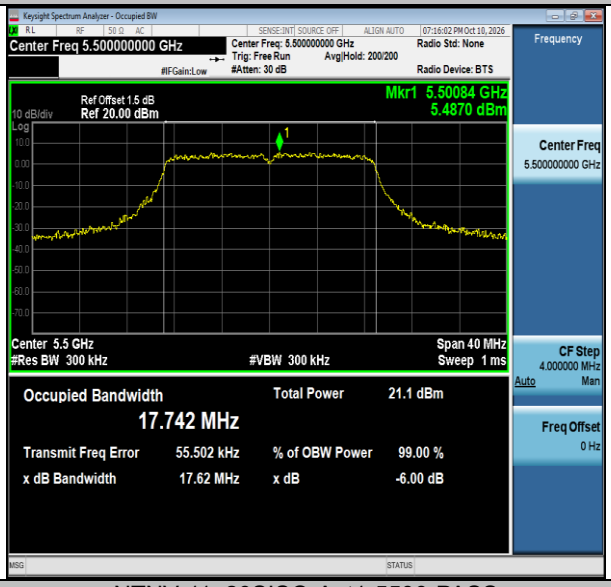
NTNV-11n20SISO-Ant1-5260-PASS



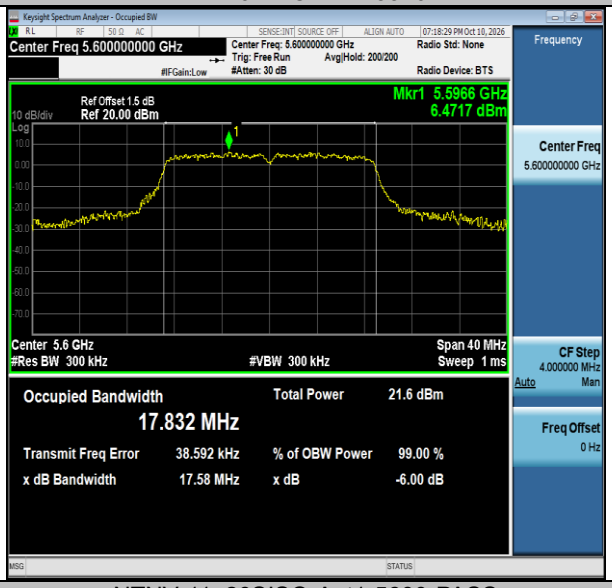
NTNV-11n20SISO-Ant1-5300-PASS



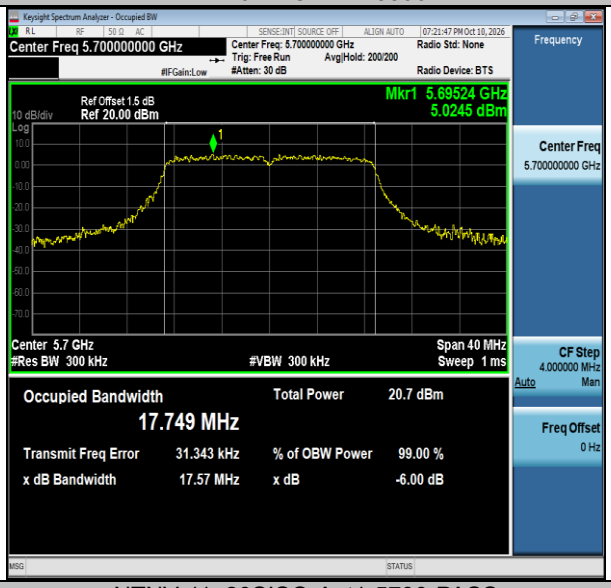
NTNV-11n20SISO-Ant1-5320-PASS



NTNV-11n20SISO-Ant1-5500-PASS

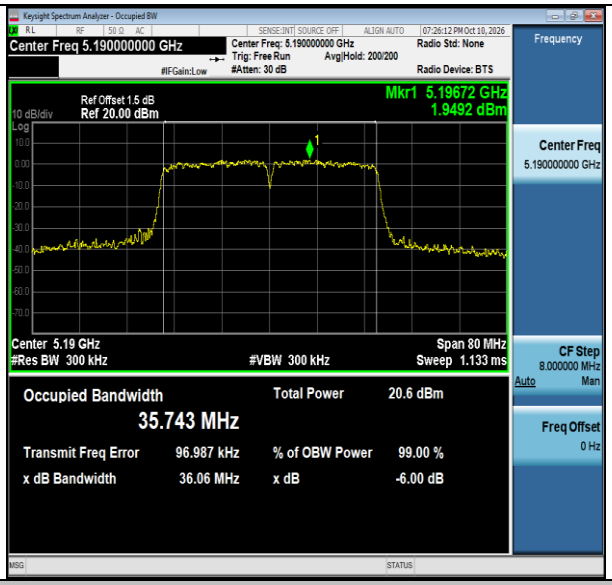


NTNV-11n20SISO-Ant1-5600-PASS

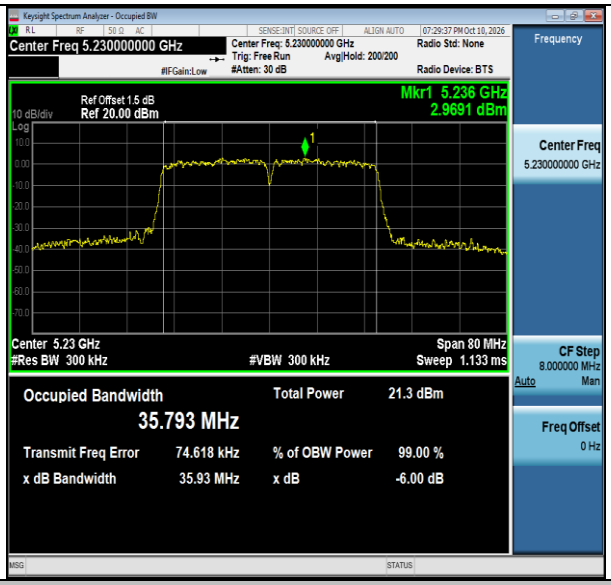


NTNV-11n20SISO-Ant1-5700-PASS

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NTNV-11n40SISO-Ant1-5190-PASS



NTNV-11n40SISO-Ant1-5230-PASS



NTNV-11n40SISO-Ant1-5270-PASS



NTNV-11n40SISO-Ant1-5310-PASS



NTNV-11n40SISO-Ant1-5510-PASS



NTNV-11n40SISO-Ant1-5590-PASS

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NTNV-11n40SISO-Ant1-5670-PASS

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Spurious Emission of TX
Test Result

Test Condition	Test Mode	ANT	Freq. [MHz]	Freq.Range [MHz]	Freq. [MHz]	Result [dBm/MHz]	Gain [dBi]	EIRP [dBm/MHz]	Result [μW/MHz]	Limit [μW/MHz]	Verdict
NTNV	11a	Ant1	5180	30~5142	5142.00	-36.32	6.25	-30.07	0.98401	≤2.5	PASS
NTNV	11a	Ant1	5180	5142~5150	5148.95	-30.04	6.25	-23.79	4.17830	≤15	PASS
NTNV	11a	Ant1	5180	5250~5251	5250.96	-37.30	6.25	-31.05	0.78524	≤109.6	PASS
NTNV	11a	Ant1	5180	5251~5260	5259.76	-37.32	6.25	-31.07	0.78163	≤16.6	PASS
NTNV	11a	Ant1	5180	5260~5266.7	5264.21	-36.41	6.25	-30.16	0.96383	≤15.8	PASS
NTNV	11a	Ant1	5180	5266.7~26000	23275.64	-37.73	6.25	-31.48	0.71121	≤2.5	PASS
NTNV	11a	Ant1	5200	30~5142	5116.95	-40.39	6.25	-34.14	0.38548	≤2.5	PASS
NTNV	11a	Ant1	5200	5142~5150	5144.84	-38.09	6.25	-31.84	0.65464	≤15	PASS
NTNV	11a	Ant1	5200	5250~5251	5251.00	-36.74	6.25	-30.49	0.89331	≤100.0	PASS
NTNV	11a	Ant1	5200	5251~5260	5259.31	-37.16	6.25	-30.91	0.81096	≤18.3	PASS
NTNV	11a	Ant1	5200	5260~5266.7	5263.06	-36.40	6.25	-30.15	0.96605	≤15.8	PASS
NTNV	11a	Ant1	5200	5266.7~26000	23497.49	-38.46	6.25	-32.21	0.60117	≤2.5	PASS
NTNV	11a	Ant1	5240	30~5142	5123.09	-41.10	6.25	-34.85	0.32734	≤2.5	PASS
NTNV	11a	Ant1	5240	5142~5150	5146.18	-38.63	6.25	-32.38	0.57810	≤15	PASS
NTNV	11a	Ant1	5240	5250~5251	5250.75	-3.20	6.25	3.05	2018.36636	≤177.8	See Step2
NTNV	11a	Ant1	5240	5251~5260	5251.29	-7.05	6.25	-0.80	831.76377	≤94.2	See Step2
NTNV	11a	Ant1	5240	5260~5266.7	5260.04	-25.39	6.25	-19.14	12.18990	≤15.8	See Step2
NTNV	11a	Ant1	5240	5266.7~26000	5266.7	-29.35	6.25	-23.10	4.89779	≤2.5	See Step2
NTNV	11a	Ant1	5260	30~5233.3	5232.26	-26.95	6.25	-20.70	8.51138	≤2.5	See Step2
NTNV	11a	Ant1	5260	5233.3~5240	5236.61	-20.31	6.25	-14.06	39.26449	≤6.2	See Step2
NTNV	11a	Ant1	5260	5240~5249	5249	-4.73	6.25	1.52	1419.05752	≤100.0	See Step2
NTNV	11a	Ant1	5260	5249~5250	5249	-4.60	6.25	1.65	1462.17717	≤100.0	See Step2
NTNV	11a	Ant1	5260	5350~6000	5379.58	-37.78	6.25	-31.53	0.70307	≤2.5	PASS
NTNV	11a	Ant1	5300	30~5233.3	5216.13	-38.10	6.25	-31.85	0.65313	≤2.5	PASS
NTNV	11a	Ant1	5300	5233.3~5240	5233.53	-37.23	6.25	-30.98	0.79799	≤2.7	PASS
NTNV	11a	Ant1	5300	5240~5249	5240.05	-35.87	6.25	-29.62	1.09144	≤16.0	PASS
NTNV	11a	Ant1	5300	5249~5250	5249.01	-33.70	6.25	-27.45	1.79887	≤102.3	PASS
NTNV	11a	Ant1	5300	5350~6000	5350.63	-36.40	6.25	-30.15	0.96605	≤2.5	PASS
NTNV	11a	Ant1	5320	30~5233.3	5216.13	-38.87	6.25	-32.62	0.54702	≤2.5	PASS
NTNV	11a	Ant1	5320	5233.3~5240	5233.37	-37.35	6.25	-31.10	0.77625	≤2.5	PASS
NTNV	11a	Ant1	5320	5240~5249	5240.07	-37.18	6.25	-30.93	0.80724	≤16.1	PASS
NTNV	11a	Ant1	5320	5249~5250	5249.06	-37.02	6.25	-30.77	0.83753	≤114.8	PASS
NTNV	11a	Ant1	5320	5350~6000	5350.63	-30.97	6.25	-24.72	3.37287	≤2.5	See Step2
NTNV	11a	Ant1	5500	30~5460	5449.14	-37.39	6.79	-30.60	0.87096	≤2.5	PASS
NTNV	11a	Ant1	5500	5460~5470	5468.83	-28.41	6.79	-21.62	6.88652	≤12.5	See Step2
NTNV	11a	Ant1	5500	5745~5765	5746.52	-37.83	6.79	-31.04	0.78705	≤12.5	PASS
NTNV	11a	Ant1	5500	5765~7000	5765.25	-40.99	6.79	-34.20	0.38019	≤2.5	PASS
NTNV	11a	Ant1	5600	30~5460	1923.44	-30.61	6.79	-23.82	4.14954	≤2.5	See Step2
NTNV	11a	Ant1	5600	5460~5470	5469.38	-38.85	6.79	-32.06	0.62230	≤12.5	PASS
NTNV	11a	Ant1	5600	5745~5765	5747.46	-37.81	6.79	-31.02	0.79068	≤12.5	PASS
NTNV	11a	Ant1	5600	5765~7000	5793.20	-38.38	6.79	-31.59	0.69343	≤2.5	PASS
NTNV	11a	Ant1	5700	30~5460	5386.15	-40.35	6.79	-33.56	0.44055	≤2.5	PASS
NTNV	11a	Ant1	5700	5460~5470	5462.65	-40.39	6.79	-33.60	0.43652	≤12.5	PASS
NTNV	11a	Ant1	5700	5745~5765	5756.30	-36.27	6.79	-29.48	1.12720	≤12.5	PASS
NTNV	11a	Ant1	5700	5765~7000	5818.64	-36.79	6.79	-30.00	1.00000	≤2.5	PASS
NTNV	11n20SISO	Ant1	5180	30~5142	5139.96	-38.80	6.25	-32.55	0.55590	≤2.5	PASS
NTNV	11n20SISO	Ant1	5180	5142~5150	5149.98	-27.76	6.25	-21.51	7.06318	≤15	PASS
NTNV	11n20SISO	Ant1	5180	5250~5251	5250.98	-37.14	6.25	-30.89	0.81470	≤104.7	PASS
NTNV	11n20SISO	Ant1	5180	5251~5260	5259.72	-36.66	6.25	-30.41	0.90991	≤16.8	PASS
NTNV	11n20SISO	Ant1	5180	5260~5266.7	5263.95	-36.64	6.25	-30.39	0.91411	≤15.8	PASS
NTNV	11n20SISO	Ant1	5180	5266.7~26000	23451.88	-38.37	6.25	-32.12	0.61376	≤2.5	PASS
NTNV	11n20SISO	Ant1	5200	30~5142	5136.89	-39.39	6.25	-33.14	0.48529	≤2.5	PASS
NTNV	11n20SISO	Ant1	5200	5142~5150	5146.66	-38.15	6.25	-31.90	0.64565	≤15	PASS
NTNV	11n20SISO	Ant1	5200	5250~5251	5250.97	-37.03	6.25	-30.78	0.83560	≤107.2	PASS
NTNV	11n20SISO	Ant1	5200	5251~5260	5259.51	-37.17	6.25	-30.92	0.80910	≤17.5	PASS
NTNV	11n20SISO	Ant1	5200	5260~5266.7	5265.42	-36.66	6.25	-30.41	0.90991	≤15.7	PASS
NTNV	11n20SISO	Ant1	5200	5266.7~26000	23402.12	-38.17	6.25	-31.92	0.64269	≤2.5	PASS
NTNV	11n20SISO	Ant1	5240	30~5142	5134.84	-39.99	6.25	-33.74	0.42267	≤2.5	PASS
NTNV	11n20SISO	Ant1	5240	5142~5150	5146.42	-38.26	6.25	-32.01	0.62951	≤15	PASS
NTNV	11n20SISO	Ant1	5240	5250~5251	5250.97	-2.89	6.25	3.36	2167.70410	≤107.2	See Step2
NTNV	11n20SISO	Ant1	5240	5251~5260	5251.01	-5.43	6.25	0.82	1207.81384	≤99.8	See Step2
NTNV	11n20SISO	Ant1	5240	5260~5266.7	5261.06	-24.34	6.25	-18.09	15.52387	≤15.8	See Step2

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NTNV	11n20SISO	Ant1	5240	5266.7~26000	5266.7	-33.85	6.25	-27.60	1.73780	≤2.5	See Step2
NTNV	11n20SISO	Ant1	5260	30~5233.3	5233.3	-25.43	6.25	-19.18	12.07814	≤2.5	See Step2
NTNV	11n20SISO	Ant1	5260	5233.3~5240	5233.57	-23.09	6.25	-16.84	20.70141	≤2.7	See Step2
NTNV	11n20SISO	Ant1	5260	5240~5249	5249	-3.59	6.25	2.66	1845.01542	≤100.0	See Step2
NTNV	11n20SISO	Ant1	5260	5249~5250	5249.01	-3.60	6.25	2.65	1840.77200	≤102.3	See Step2
NTNV	11n20SISO	Ant1	5260	5350~6000	5377.69	-37.58	6.25	-31.33	0.73621	≤2.5	PASS
NTNV	11n20SISO	Ant1	5300	30~5233.3	5179.71	-38.76	6.25	-32.51	0.56105	≤2.5	PASS
NTNV	11n20SISO	Ant1	5300	5233.3~5240	5233.35	-36.37	6.25	-30.12	0.97275	≤2.5	PASS
NTNV	11n20SISO	Ant1	5300	5240~5249	5240.16	-35.92	6.25	-29.67	1.07895	≤16.4	PASS
NTNV	11n20SISO	Ant1	5300	5249~5250	5249.08	-32.49	6.25	-26.24	2.37684	≤120.2	PASS
NTNV	11n20SISO	Ant1	5300	5350~6000	5351.47	-36.11	6.25	-29.86	1.03276	≤2.5	PASS
NTNV	11n20SISO	Ant1	5320	30~5233.3	5204.16	-39.67	6.25	-33.42	0.45499	≤2.5	PASS
NTNV	11n20SISO	Ant1	5320	5233.3~5240	5233.38	-37.27	6.25	-31.02	0.79068	≤2.5	PASS
NTNV	11n20SISO	Ant1	5320	5240~5249	5240.16	-37.23	6.25	-30.98	0.79799	≤16.4	PASS
NTNV	11n20SISO	Ant1	5320	5249~5250	5249.03	-36.69	6.25	-30.44	0.90365	≤107.2	PASS
NTNV	11n20SISO	Ant1	5320	5350~6000	5350	-27.04	6.25	-20.79	8.33681	≤2.5	See Step2
NTNV	11n20SISO	Ant1	5500	30~5460	5460.00	-36.06	6.79	-29.27	1.18304	≤2.5	PASS
NTNV	11n20SISO	Ant1	5500	5460~5470	5469.22	-24.77	6.79	-17.98	15.92209	≤12.5	See Step2
NTNV	11n20SISO	Ant1	5500	5745~5765	5748.30	-37.46	6.79	-30.67	0.85704	≤12.5	PASS
NTNV	11n20SISO	Ant1	5500	5765~7000	5783.57	-40.36	6.79	-33.57	0.43954	≤2.5	PASS
NTNV	11n20SISO	Ant1	5600	30~5460	5425.25	-39.68	6.79	-32.89	0.51404	≤2.5	PASS
NTNV	11n20SISO	Ant1	5600	5460~5470	5464.47	-39.10	6.79	-32.31	0.58749	≤12.5	PASS
NTNV	11n20SISO	Ant1	5600	5745~5765	5746.90	-37.11	6.79	-30.32	0.92897	≤12.5	PASS
NTNV	11n20SISO	Ant1	5600	5765~7000	5766.85	-39.25	6.79	-32.46	0.56754	≤2.5	PASS
NTNV	11n20SISO	Ant1	5700	30~5460	5373.12	-39.77	6.79	-32.98	0.50350	≤2.5	PASS
NTNV	11n20SISO	Ant1	5700	5460~5470	5468.31	-40.24	6.79	-33.45	0.45186	≤12.5	PASS
NTNV	11n20SISO	Ant1	5700	5745~5765	5745.70	-35.70	6.79	-28.91	1.28529	≤12.5	PASS
NTNV	11n20SISO	Ant1	5700	5765~7000	5817.94	-37.27	6.79	-30.48	0.89536	≤2.5	PASS
NTNV	11n40SISO	Ant1	5190	30~5141.6	5141.6	-27.66	6.25	-21.41	7.22770	≤2.5	See Step2
NTNV	11n40SISO	Ant1	5190	5141.6~5150	5149.43	-21.47	6.25	-15.22	30.06076	≤15	See Step2
NTNV	11n40SISO	Ant1	5190	5250~5251	5250.91	-33.24	6.25	-26.99	1.99986	≤61.5	PASS
NTNV	11n40SISO	Ant1	5190	5251~5270	5269.68	-36.97	6.25	-30.72	0.84723	≤8.2	PASS
NTNV	11n40SISO	Ant1	5190	5270~5278.4	5277.84	-37.12	6.25	-30.87	0.81846	≤2.7	PASS
NTNV	11n40SISO	Ant1	5190	5278.4~26000	23400.82	-37.67	6.25	-31.42	0.72111	≤2.5	PASS
NTNV	11n40SISO	Ant1	5230	30~5141.6	5134.95	-40.19	6.25	-33.94	0.40365	≤2.5	PASS
NTNV	11n40SISO	Ant1	5230	5141.6~5150	5148.96	-36.64	6.25	-30.39	0.91411	≤15	PASS
NTNV	11n40SISO	Ant1	5230	5250~5251	5250.93	-10.06	6.25	-3.81	415.91061	≤58.7	See Step2
NTNV	11n40SISO	Ant1	5230	5251~5270	5269.64	-20.46	6.25	-14.21	37.93150	≤8.2	See Step2
NTNV	11n40SISO	Ant1	5230	5270~5278.4	5277.93	-25.65	6.25	-19.40	11.48154	≤2.6	See Step2
NTNV	11n40SISO	Ant1	5230	5278.4~26000	5281.85	-30.49	6.25	-24.24	3.76704	≤2.5	See Step2
NTNV	11n40SISO	Ant1	5270	30~5221.6	5221.6	-26.21	6.25	-19.96	10.09253	≤2.5	See Step2
NTNV	11n40SISO	Ant1	5270	5221.6~5230	5222.1	-21.86	6.25	-15.61	27.47894	≤2.7	See Step2
NTNV	11n40SISO	Ant1	5270	5230~5249	5248.92	-12.34	6.25	-6.09	246.03676	≤49.6	See Step2
NTNV	11n40SISO	Ant1	5270	5249~5250	5249.05	-11.00	6.25	-4.75	334.96544	≤56.1	See Step2
NTNV	11n40SISO	Ant1	5270	5350~5358.4	5353.57	-35.63	6.25	-29.38	1.15345	≤15	PASS
NTNV	11n40SISO	Ant1	5270	5358.4~26000	23449.39	-38.11	6.25	-31.86	0.65163	≤2.5	PASS
NTNV	11n40SISO	Ant1	5310	30~5221.6	5219.52	-36.78	6.25	-30.53	0.88512	≤2.5	PASS
NTNV	11n40SISO	Ant1	5310	5221.6~5230	5222.14	-33.60	6.25	-27.35	1.84077	≤2.7	See Step2
NTNV	11n40SISO	Ant1	5310	5230~5249	5230.87	-31.61	6.25	-25.36	2.91072	≤8.6	PASS
NTNV	11n40SISO	Ant1	5310	5249~5250	5249.01	-28.22	6.25	-21.97	6.35331	≤51.2	PASS
NTNV	11n40SISO	Ant1	5310	5350~5358.4	5351.01	-18.56	6.25	-12.31	58.74894	≤15	See Step2
NTNV	11n40SISO	Ant1	5310	5358.4~26000	5359.09	-27.03	6.25	-20.78	8.35603	≤2.5	See Step2
NTNV	11n40SISO	Ant1	5510	30~5460	5457.83	-22.07	6.79	-15.28	29.64831	≤12.5	See Step2
NTNV	11n40SISO	Ant1	5510	5460~5470	5469.48	-9.37	6.79	-2.58	552.07744	≤50	See Step2
NTNV	11n40SISO	Ant1	5510	5770~7000	5773.24	-40.54	6.79	-33.75	0.42170	≤12.5	PASS
NTNV	11n40SISO	Ant1	5590	30~5460	5446.43	-39.26	6.79	-32.47	0.56624	≤12.5	PASS
NTNV	11n40SISO	Ant1	5590	5460~5470	5461.73	-37.94	6.79	-31.15	0.76736	≤50	PASS
NTNV	11n40SISO	Ant1	5590	5770~7000	5823.42	-38.94	6.79	-32.15	0.60954	≤12.5	PASS
NTNV	11n40SISO	Ant1	5670	30~5460	5359.55	-39.96	6.79	-33.17	0.48195	≤12.5	PASS
NTNV	11n40SISO	Ant1	5670	5460~5470	5462.62	-39.14	6.79	-32.35	0.58210	≤50	PASS
NTNV	11n40SISO	Ant1	5670	5770~7000	5771.85	-37.25	6.79	-30.46	0.89950	≤12.5	PASS

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Test Result_Step2

Test Condition	Test Mode	ANT	Freq.[MHz]	Freq. [MHz]	Freq. [MHz/MHz]	Result [dBm/MHz]	Gain [dBi]	EIRP [dBm/MHz]	Result [μW/MHz]	Limit [μW/MHz]	Verdict
NTNV	11a	Ant1	5240	5250.05	5250.94	-21.78	6.25	-15.53	27.98981	≤115	PASS
NTNV	11a	Ant1	5240	5251.29	5251.00	-22.04	6.25	-15.79	26.36331	≤100	PASS
NTNV	11a	Ant1	5240	5260.04	5260.07	-38.83	6.25	-32.58	0.55208	≤16	PASS
NTNV	11a	Ant1	5240	5266.70	5266.71	-43.58	6.25	-37.33	0.18493	≤2.5	PASS
NTNV	11a	Ant1	5260	5232.26	5232.54	-40.70	6.25	-34.45	0.35892	≤2.5	PASS
NTNV	11a	Ant1	5260	5239.99	5235.42	-38.66	6.25	-32.41	0.57412	≤4	PASS
NTNV	11a	Ant1	5260	5249.00	5248.98	-21.11	6.25	-14.86	32.65878	≤100	PASS
NTNV	11a	Ant1	5260	5250.00	5249.01	-20.93	6.25	-14.68	34.04082	≤102	PASS
NTNV	11a	Ant1	5320	5350.63	5350.05	-43.71	6.25	-37.46	0.17947	≤2.5	PASS
NTNV	11a	Ant1	5600	1923.44	1919.64	-83.22	6.79	-76.43	0.00002	≤2.5	PASS
NTNV	11n20SISO	Ant1	5240	5250.11	5250.75	-20.06	6.25	-13.81	41.59106	≤178	PASS
NTNV	11n20SISO	Ant1	5240	5251.01	5251.06	-21.81	6.25	-15.56	27.79713	≤99	PASS
NTNV	11n20SISO	Ant1	5240	5260.48	5260.06	-38.46	6.25	-32.21	0.60117	≤16	PASS
NTNV	11n20SISO	Ant1	5240	5266.70	5266.84	-43.78	6.25	-37.53	0.17660	≤2.5	PASS
NTNV	11n20SISO	Ant1	5260	5233.30	5232.50	-41.16	6.25	-34.91	0.32285	≤2.5	PASS
NTNV	11n20SISO	Ant1	5260	5239.32	5236.07	-38.11	6.25	-31.86	0.65163	≤5	PASS
NTNV	11n20SISO	Ant1	5260	5249.00	5248.99	-20.44	6.25	-14.19	38.10658	≤100	PASS
NTNV	11n20SISO	Ant1	5260	5249.99	5249.00	-20.33	6.25	-14.08	39.08409	≤100	PASS
NTNV	11n20SISO	Ant1	5320	5350.00	5351.38	-44.17	6.25	-37.92	0.16144	≤2.5	PASS
NTNV	11n20SISO	Ant1	5500	5469.22	5469.03	-43.25	6.79	-36.46	0.22594	≤12.5	PASS
NTNV	11n40SISO	Ant1	5190	5141.60	5139.12	-43.92	6.25	-37.67	0.17100	≤2.5	PASS
NTNV	11n40SISO	Ant1	5190	5149.43	5149.14	-39.24	6.25	-32.99	0.50234	≤15	PASS
NTNV	11n40SISO	Ant1	5230	5250.05	5250.90	-32.33	6.25	-26.08	2.46604	≤63	PASS
NTNV	11n40SISO	Ant1	5230	5251.15	5251.12	-32.80	6.25	-26.55	2.21309	≤49	PASS
NTNV	11n40SISO	Ant1	5230	5270.13	5271.68	-38.80	6.25	-32.55	0.55590	≤6	PASS
NTNV	11n40SISO	Ant1	5230	5281.85	5279.04	-41.30	6.25	-35.05	0.31261	≤2.5	PASS
NTNV	11n40SISO	Ant1	5270	5221.60	5221.60	-38.44	6.25	-32.19	0.60395	≤2.5	PASS
NTNV	11n40SISO	Ant1	5270	5229.95	5228.39	-35.43	6.25	-29.18	1.20781	≤6	PASS
NTNV	11n40SISO	Ant1	5270	5248.92	5248.88	-30.20	6.25	-23.95	4.02717	≤49	PASS
NTNV	11n40SISO	Ant1	5270	5249.87	5249.14	-29.95	6.25	-23.70	4.26580	≤69	PASS
NTNV	11n40SISO	Ant1	5310	5223.35	5223.67	-47.34	6.25	-41.09	0.07780	≤3	PASS
NTNV	11n40SISO	Ant1	5310	5351.01	5351.96	-36.69	6.25	-30.44	0.90365	≤15	PASS
NTNV	11n40SISO	Ant1	5310	5359.09	5360.18	-41.58	6.25	-35.33	0.29309	≤2.5	PASS
NTNV	11n40SISO	Ant1	5510	5457.83	5459.79	-33.35	6.79	-26.56	2.20800	≤12.5	PASS
NTNV	11n40SISO	Ant1	5510	5469.48	5468.07	-28.36	6.79	-21.57	6.96627	≤50	PASS

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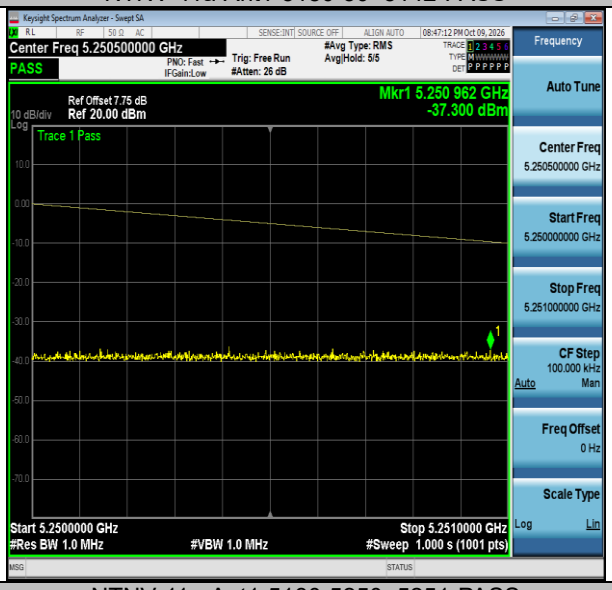
Test Graphs



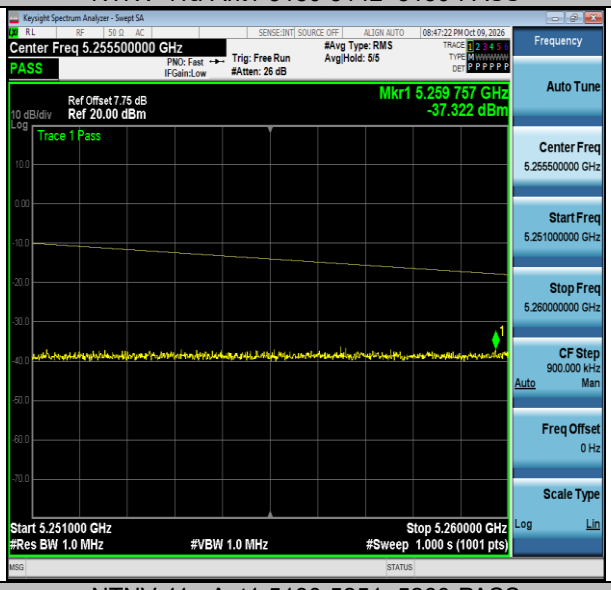
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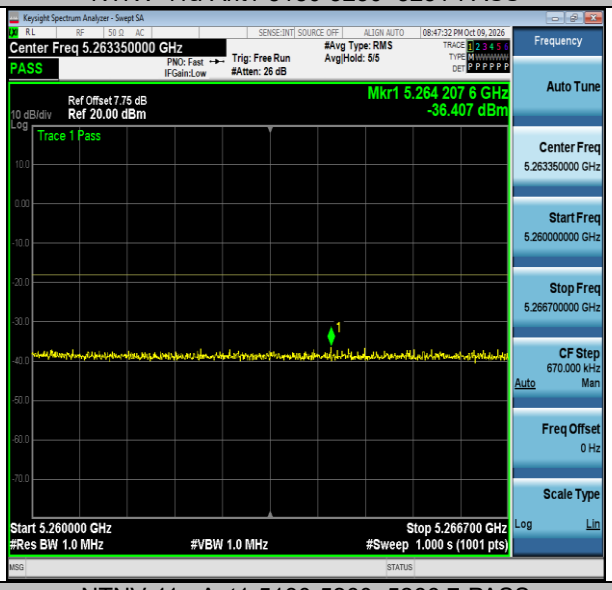
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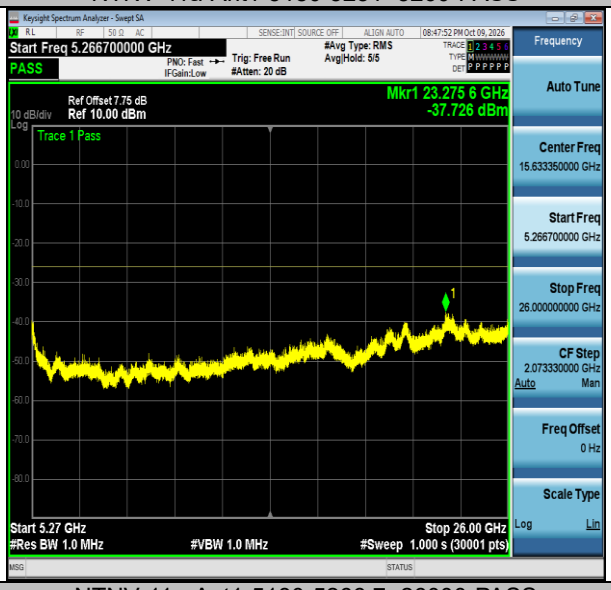
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NTNV-11a-Ant1-5180-5251~5260-PASS

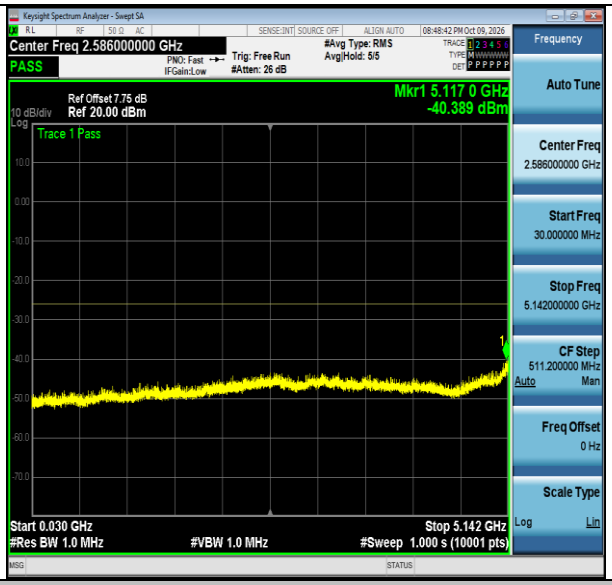


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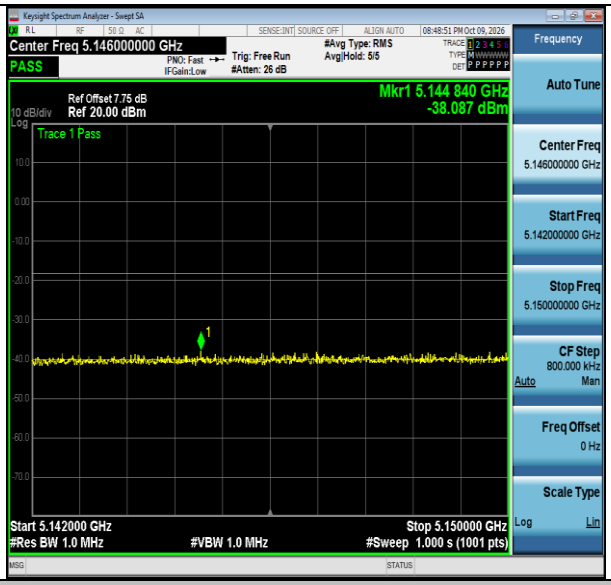


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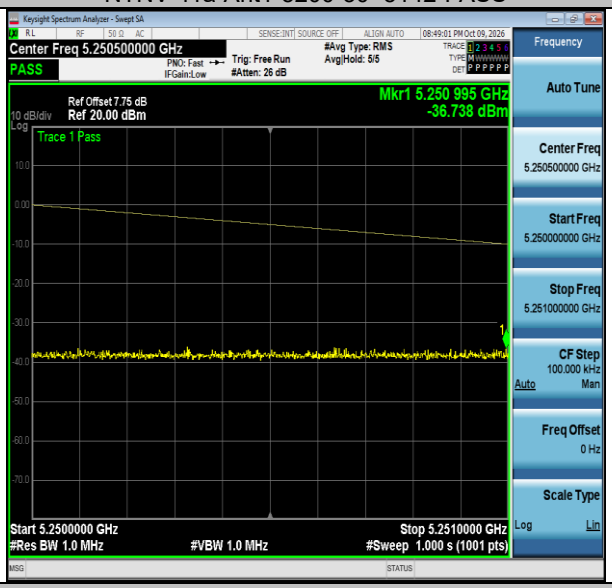
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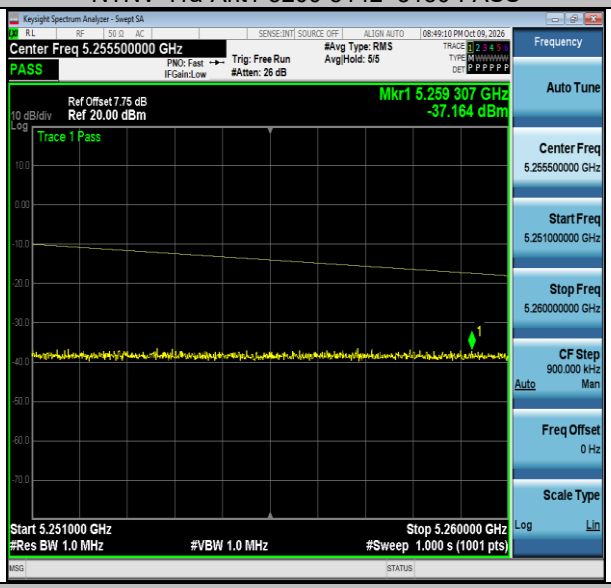
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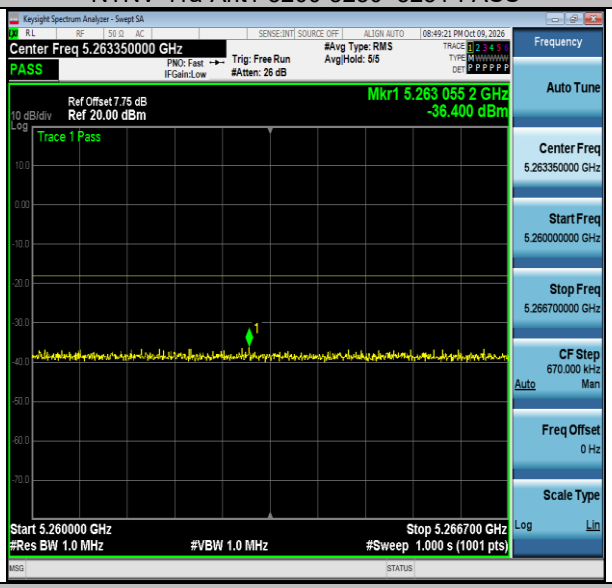
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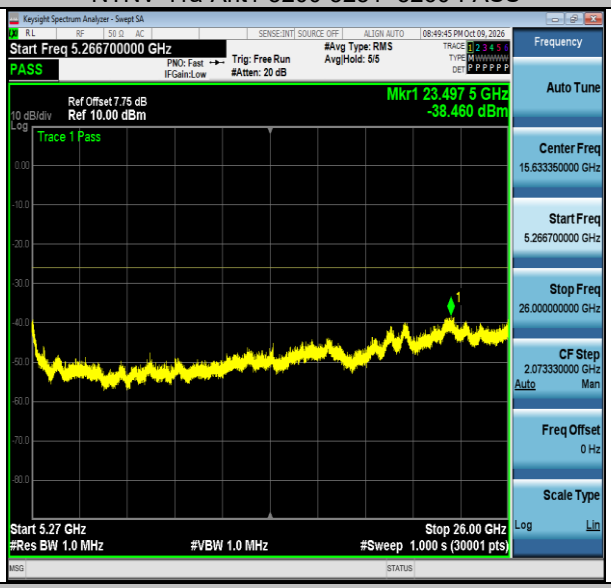
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NTNV-11a-Ant1-5200-5251~5260-PASS

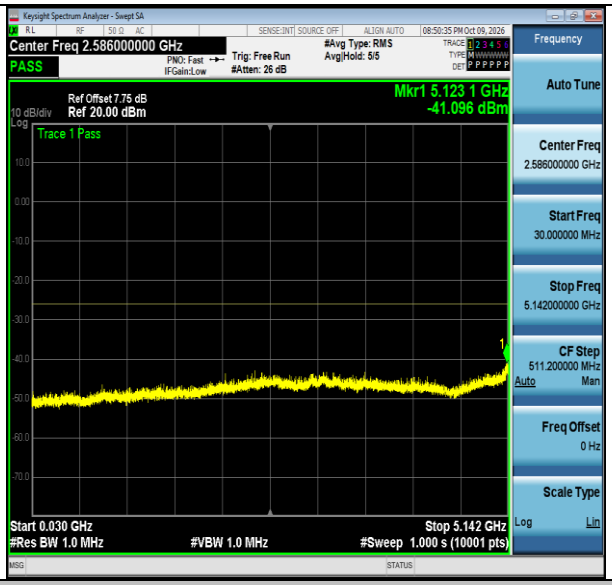


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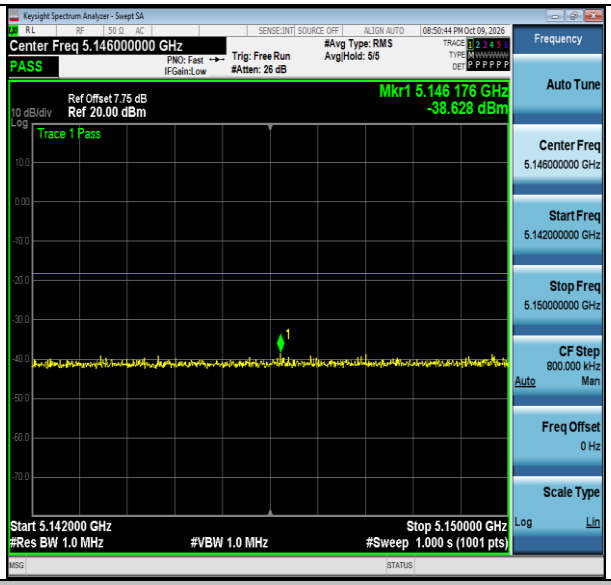


NTNV-11a-Ant1-5200-5266.7~26000-PASS

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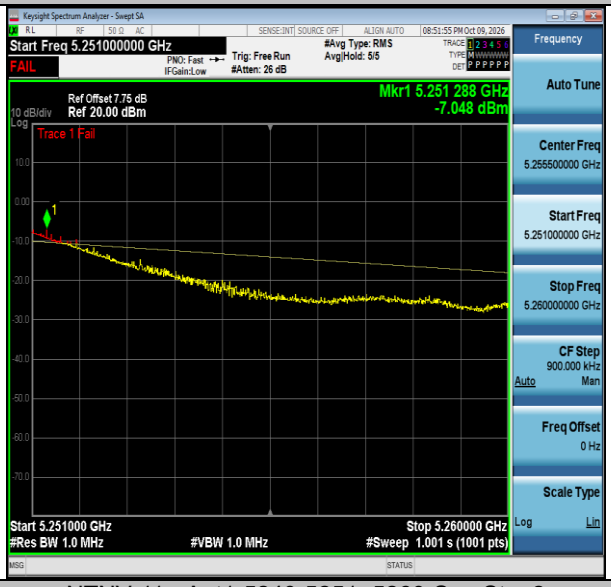
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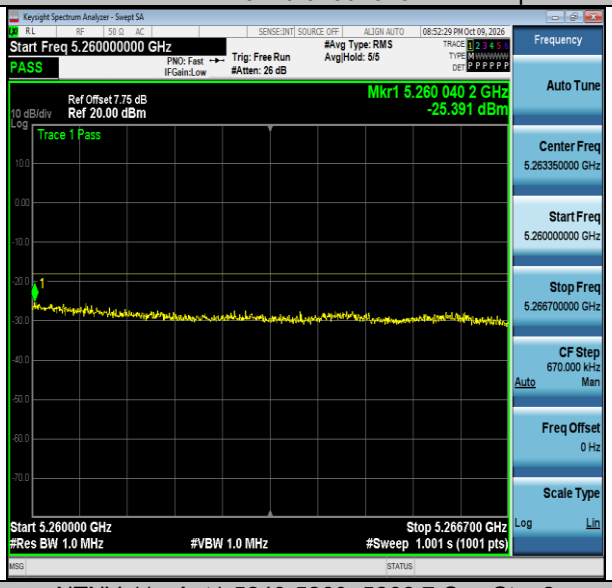
NTNV-11a-Ant1-5240-5142~5150-PASS



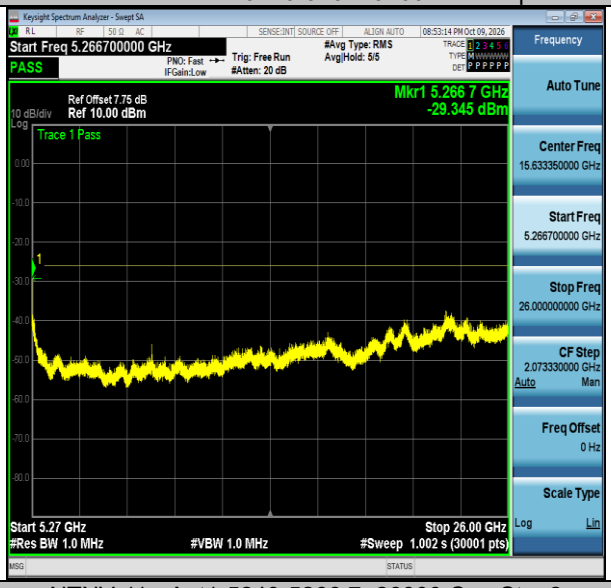
NTNV-11a-Ant1-5240-5250~5251-See Step2



NTNV-11a-Ant1-5240-5251~5260-See Step2

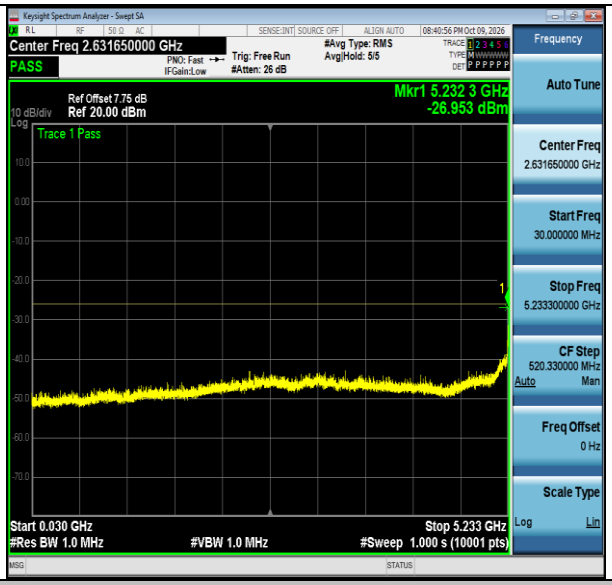


NTNV-11a-Ant1-5240-5260~5266.7-See Step2

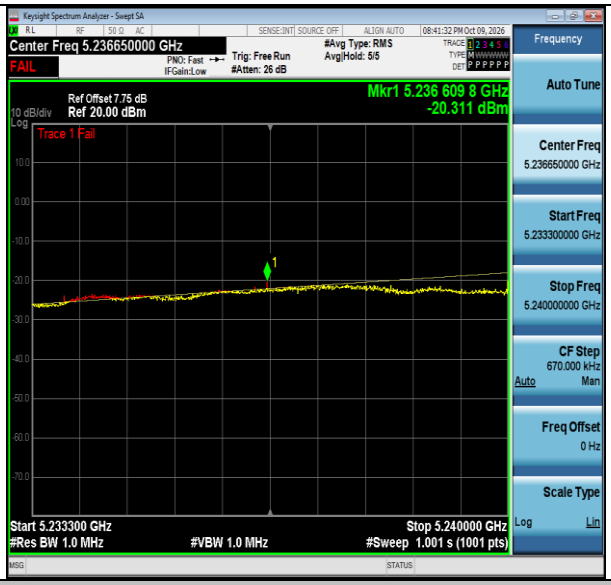


NTNV-11a-Ant1-5240-5266.7~26000-See Step2

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NTNV-11a-Ant1-5260-30~5233.3-See Step2



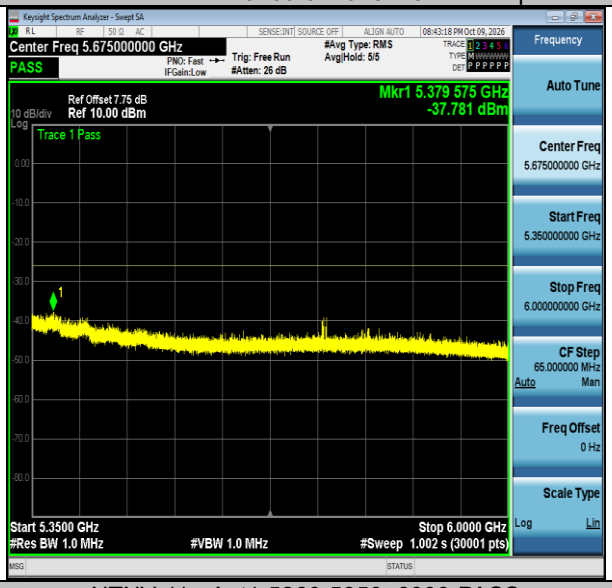
NTNV-11a-Ant1-5260-5233.3~5240-See Step2



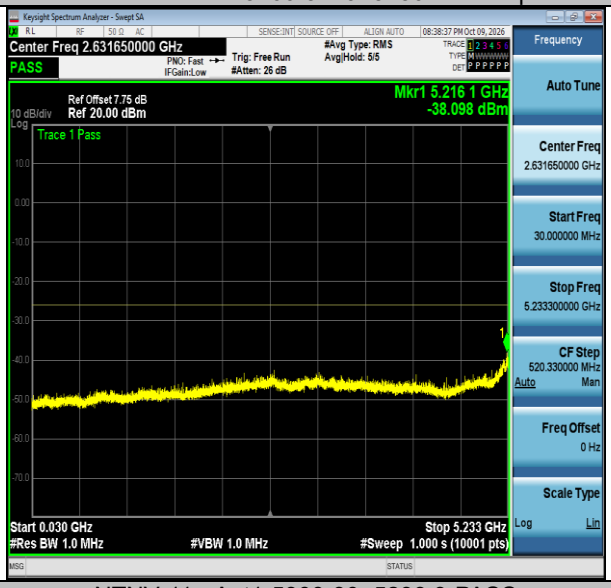
NTNV-11a-Ant1-5260-5240~5249-See Step2



NTNV-11a-Ant1-5260-5249~5250-See Step2

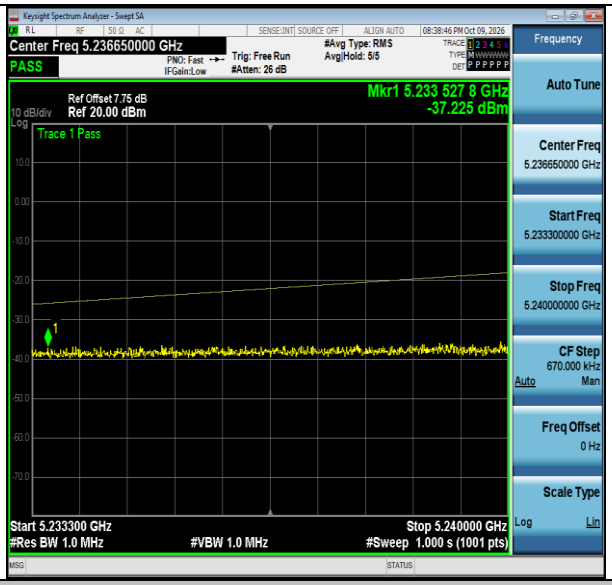


NTNV-11a-Ant1-5260-5350~6000-PASS

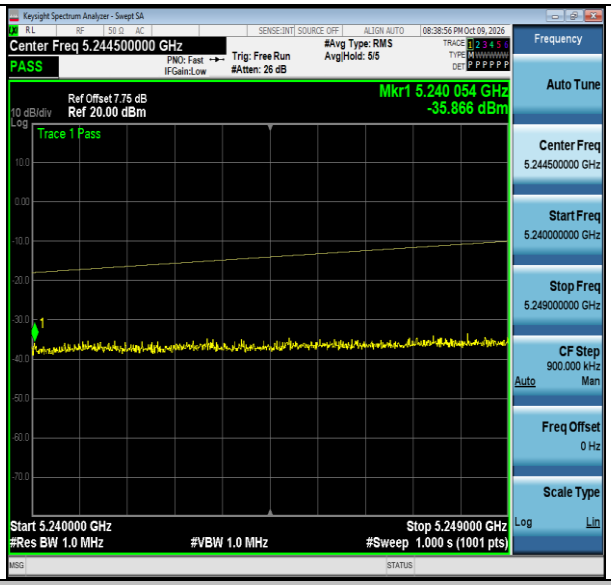


NTNV-11a-Ant1-5300-30~5233.3-PASS

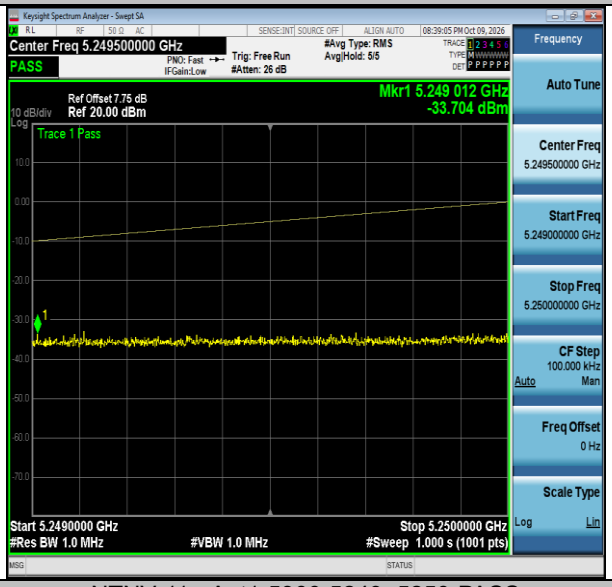
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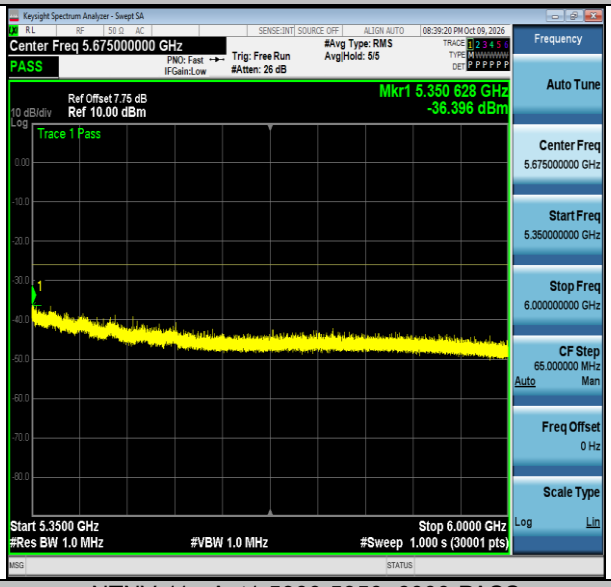
NTNV-11a-Ant1-5300-5233.3~5240-PASS



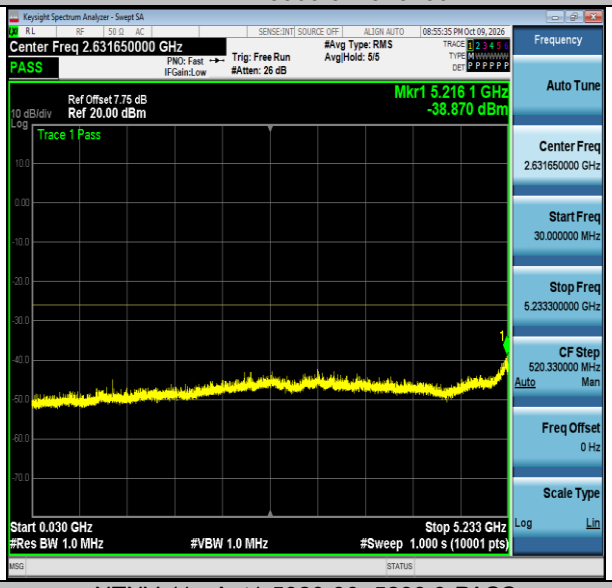
NTNV-11a-Ant1-5300-5240~5249-PASS



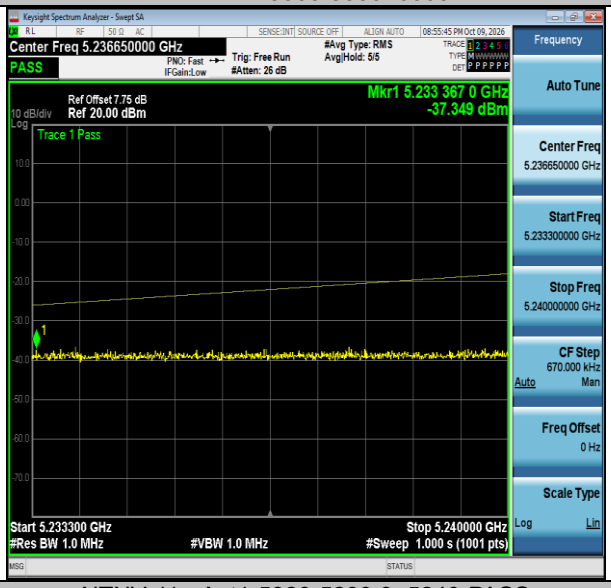
NTNV-11a-Ant1-5300-5249~5250-PASS



NTNV-11a-Ant1-5300-5350~6000-PASS

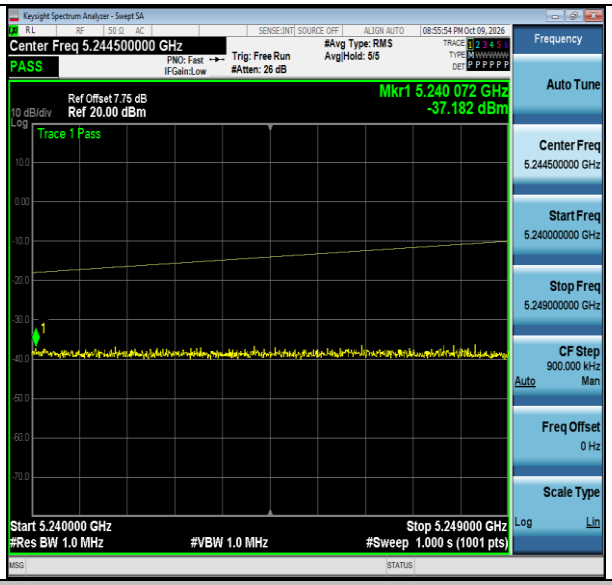


NTNV-11a-Ant1-5320-30~5233.3-PASS

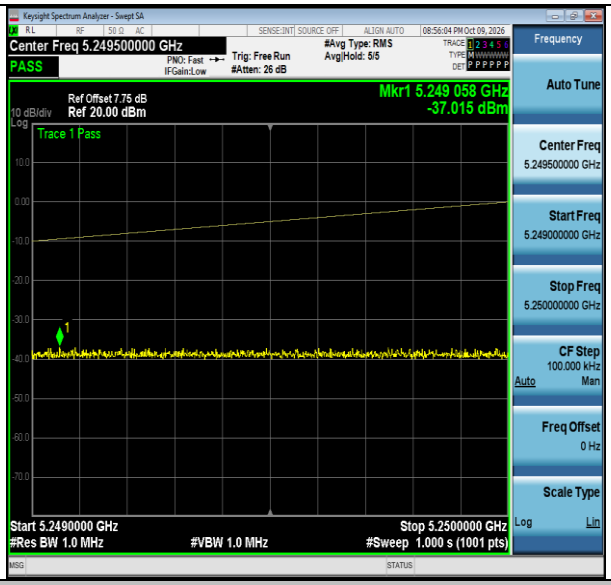


NTNV-11a-Ant1-5320-5233.3~5240-PASS

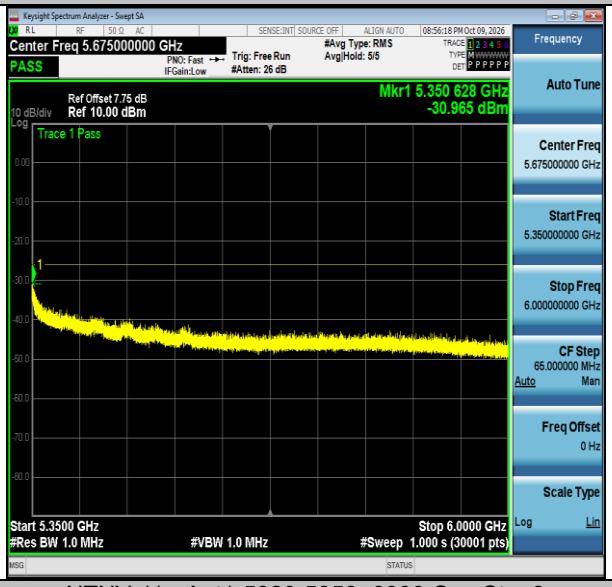
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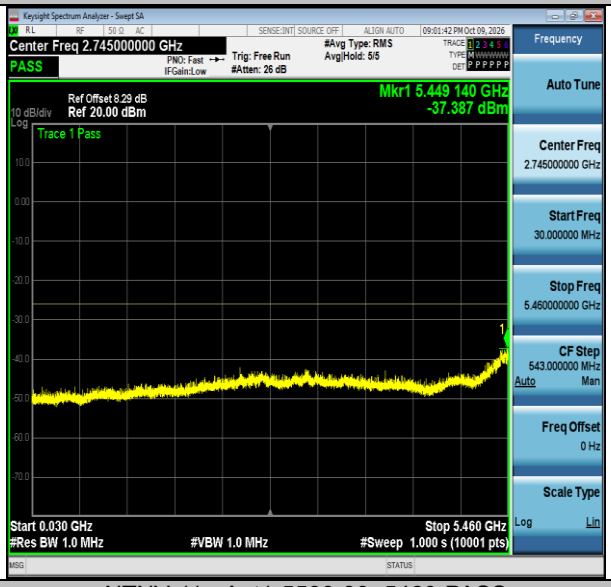
NTNV-11a-Ant1-5320-5240~5249-PASS



NTNV-11a-Ant1-5320-5249~5250-PASS



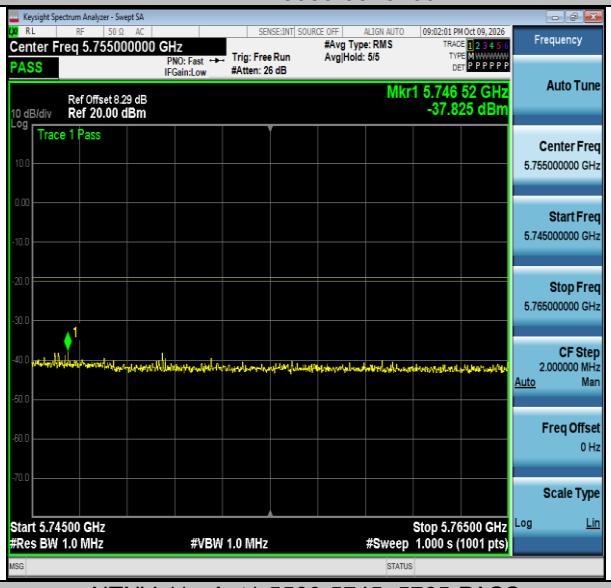
NTNV-11a-Ant1-5320-5350~6000-See Step2



NTNV-11a-Ant1-5500-30~5460-PASS

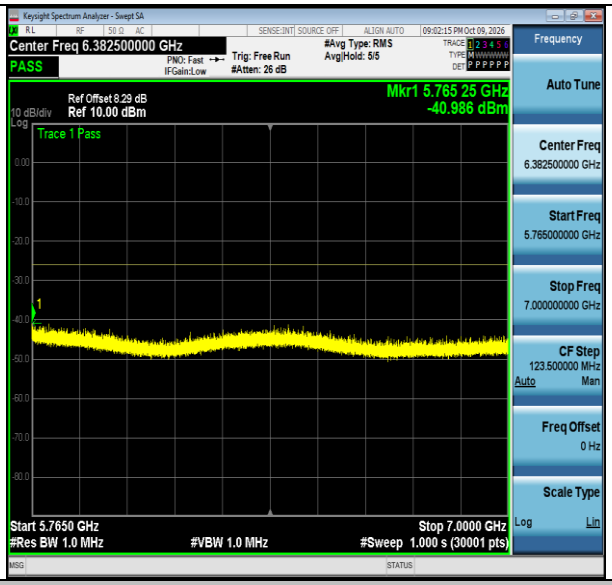


NTNV-11a-Ant1-5500-5460~5470-See Step2

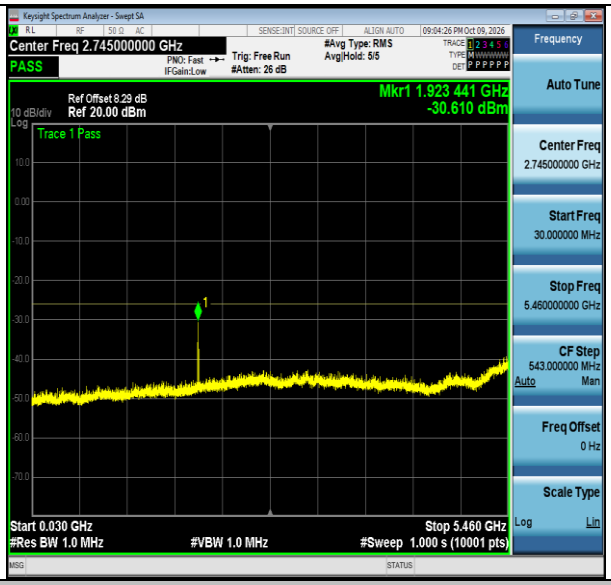


NTNV-11a-Ant1-5500-5745~5765-PASS

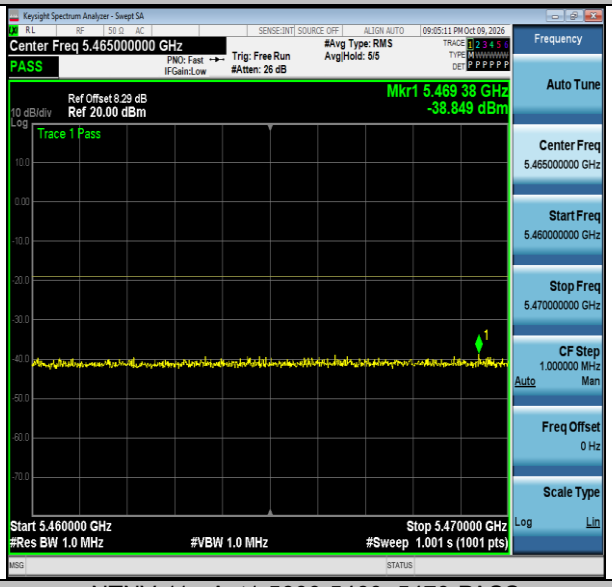
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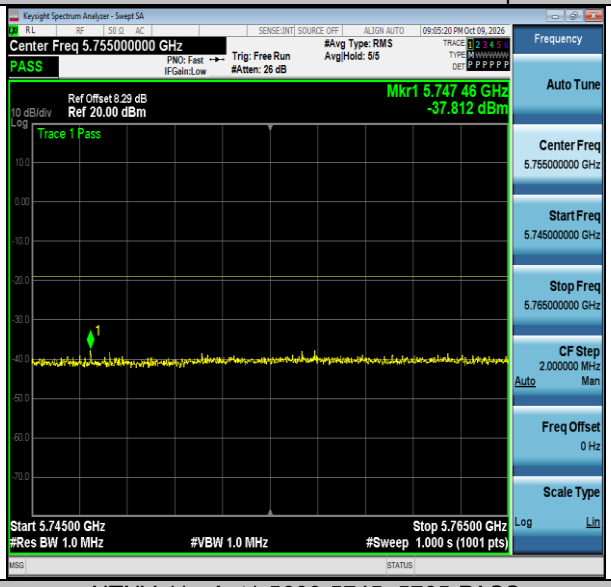
NTNV-11a-Ant1-5500-5765~7000-PASS



NTNV-11a-Ant1-5600-30~5460-See Step2



NTNV-11a-Ant1-5600-5460~5470-PASS



NTNV-11a-Ant1-5600-5745~5765-PASS

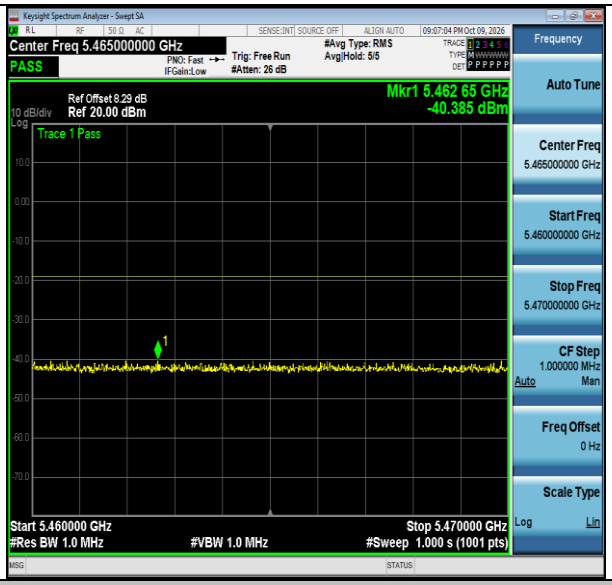


NTNV-11a-Ant1-5600-5765~7000-PASS

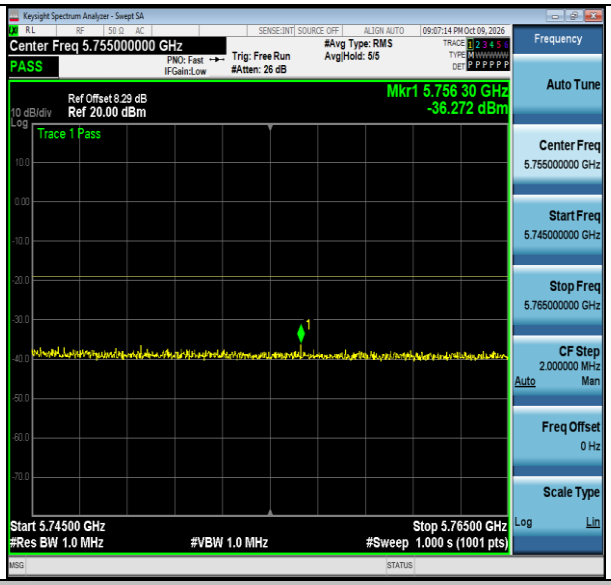


NTNV-11a-Ant1-5700-30~5460-PASS

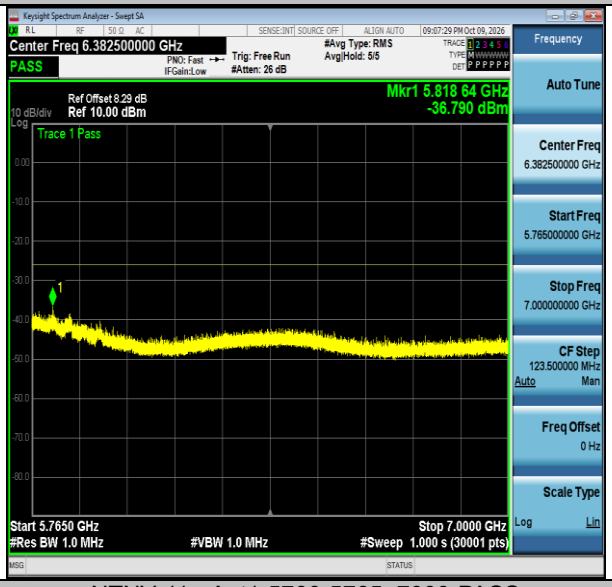
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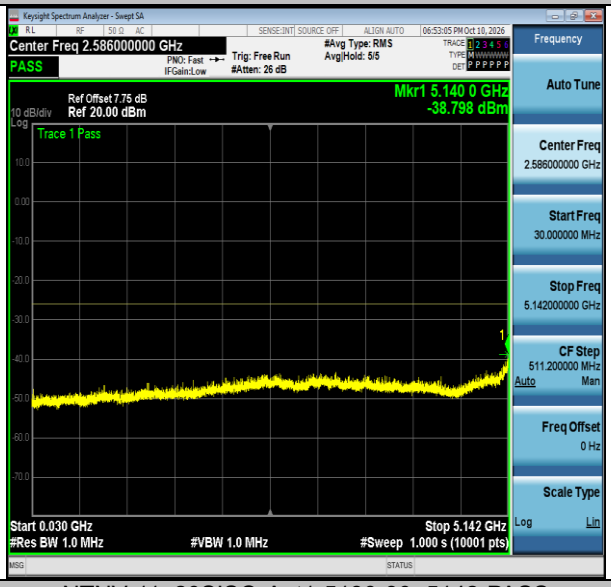
NTNV-11a-Ant1-5700-5460~5470-PASS



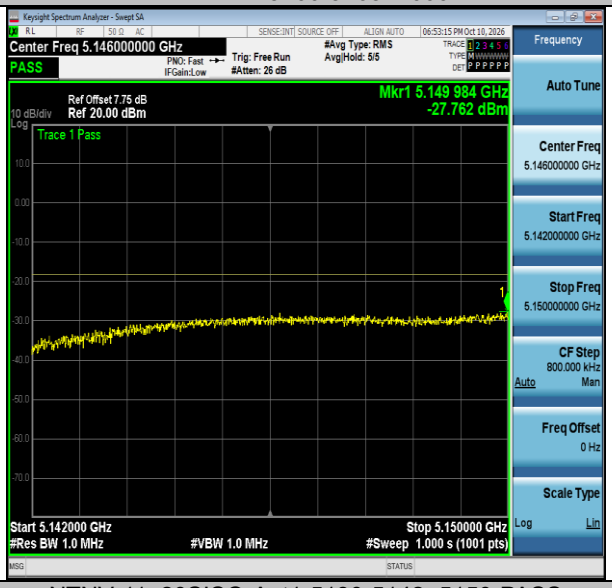
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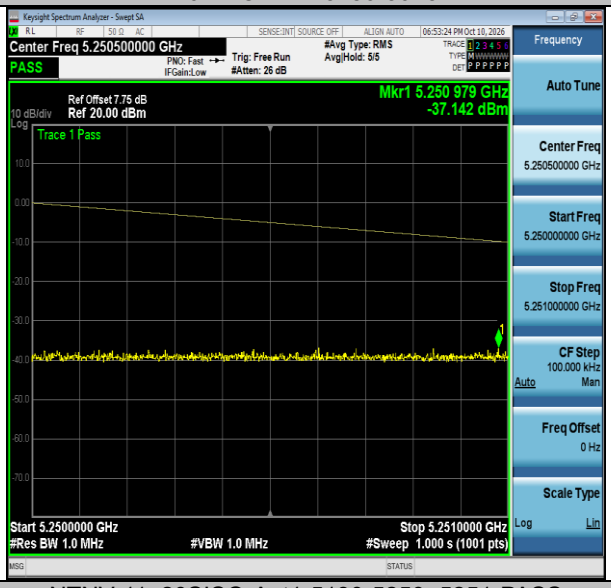
NTNV-11a-Ant1-5700-5765~7000-PASS



NTNV-11n20SISO-Ant1-5180-30~5142-PASS

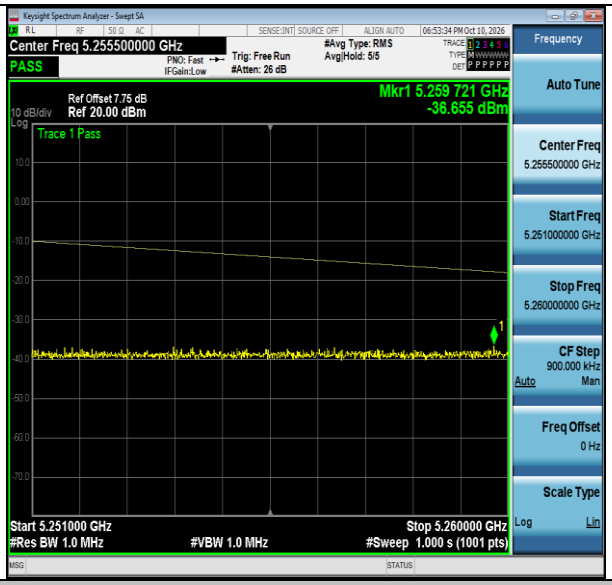


NTNV-11n20SISO-Ant1-5180-5142~5150-PASS

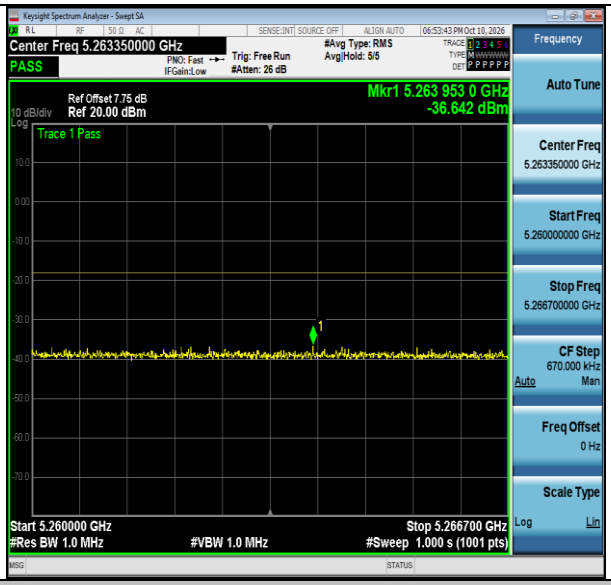


NTNV-11n20SISO-Ant1-5180-5250~5251-PASS

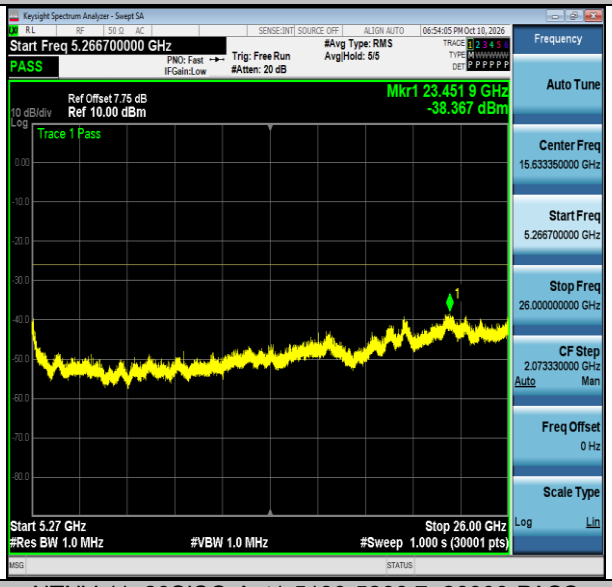
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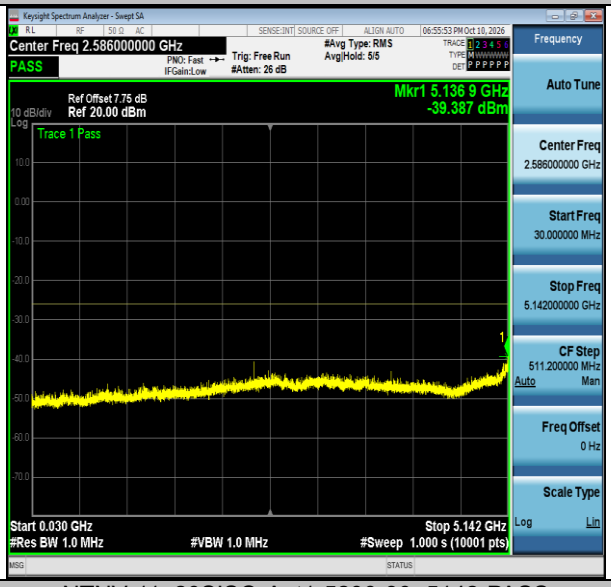
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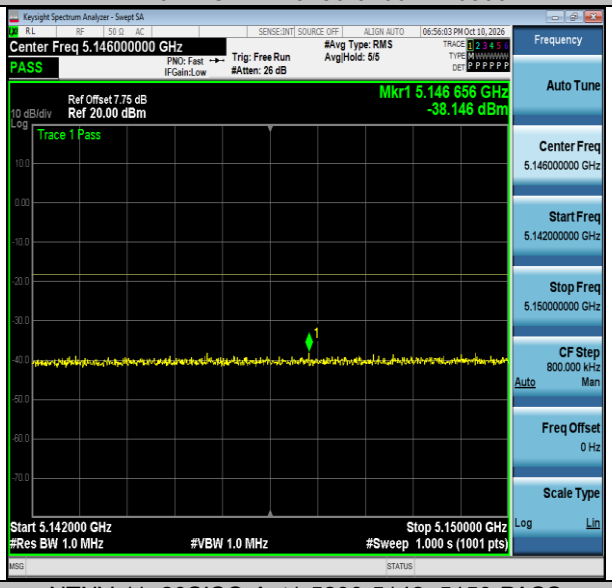
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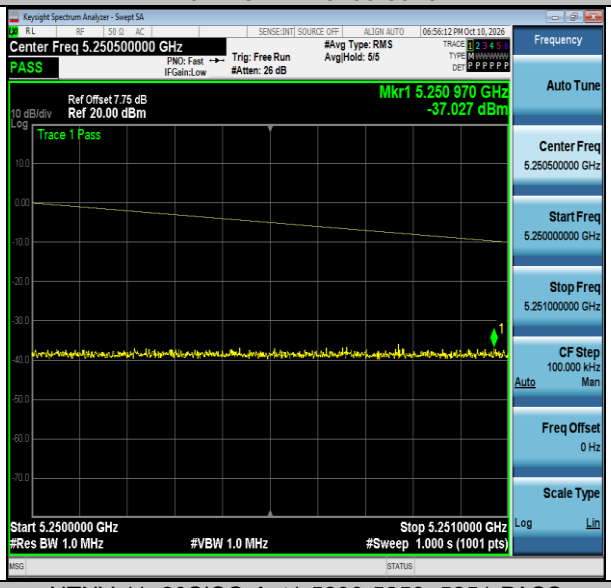
NTNV-11n20SISO-Ant1-5180-5266.7~26000-PASS



NTNV-11n20SISO-Ant1-5200-30~5142-PASS

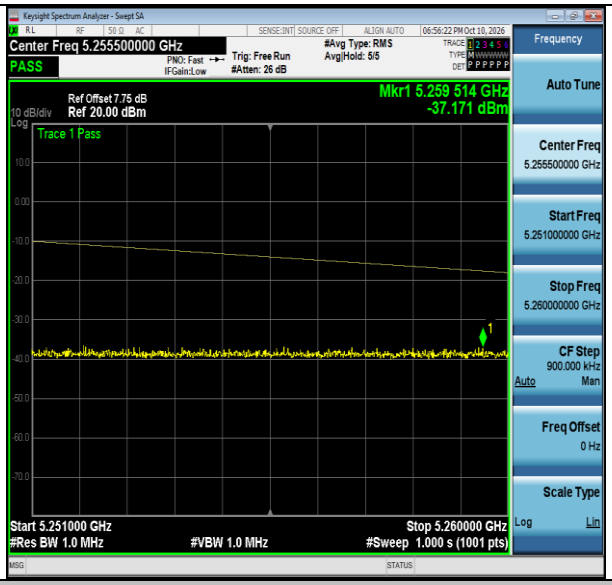


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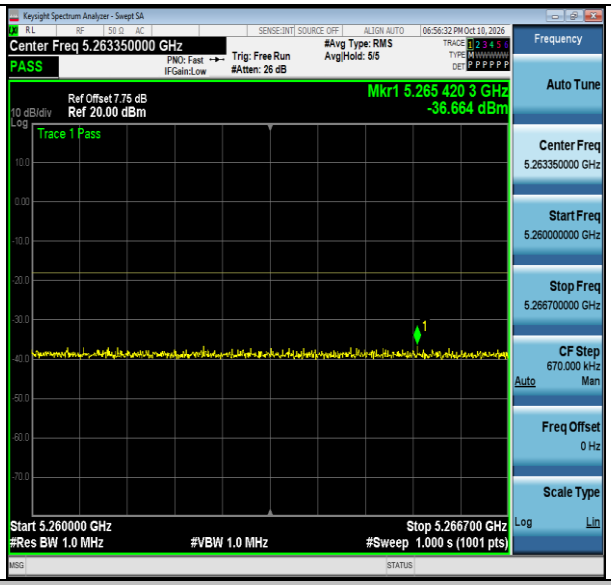


NTNV-11n20SISO-Ant1-5200-5250~5251-PASS

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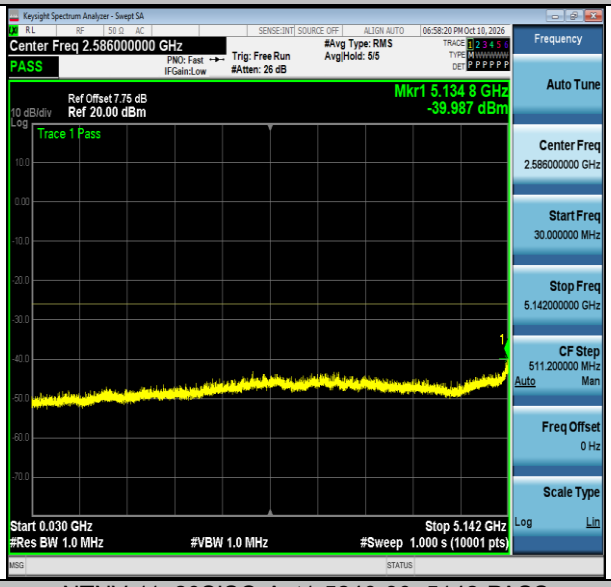
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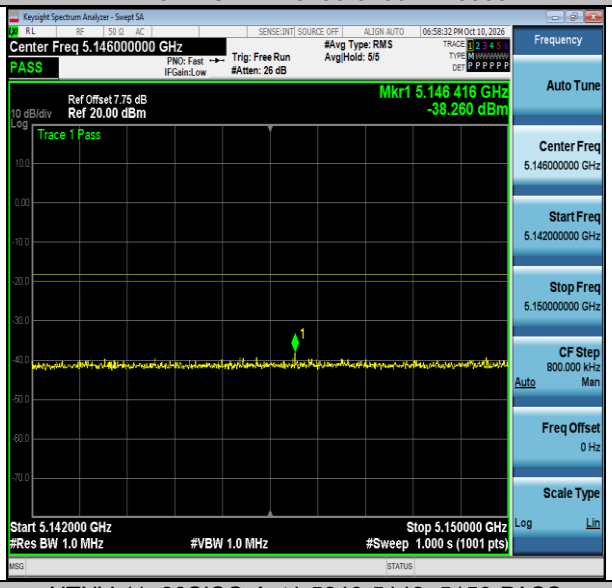
NTNV-11n20SISO-Ant1-5200-5260~5266.7-PASS



NTNV-11n20SISO-Ant1-5200-5266.7~26000-PASS



NTNV-11n20SISO-Ant1-5240-30~5142-PASS

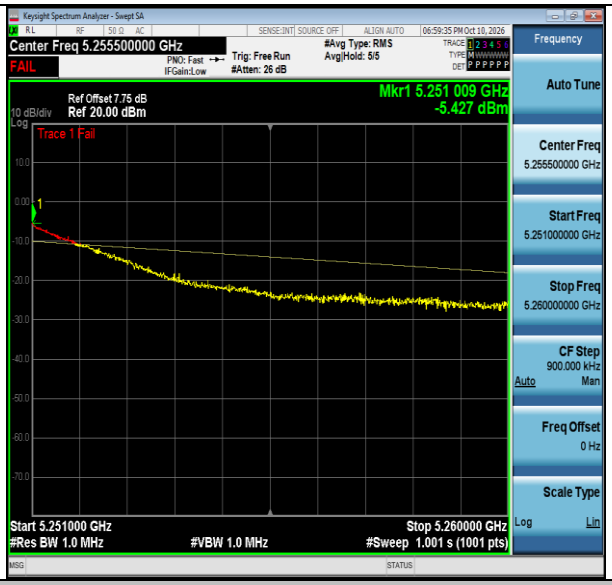


NTNV-11n20SISO-Ant1-5240-5142~5150-PASS

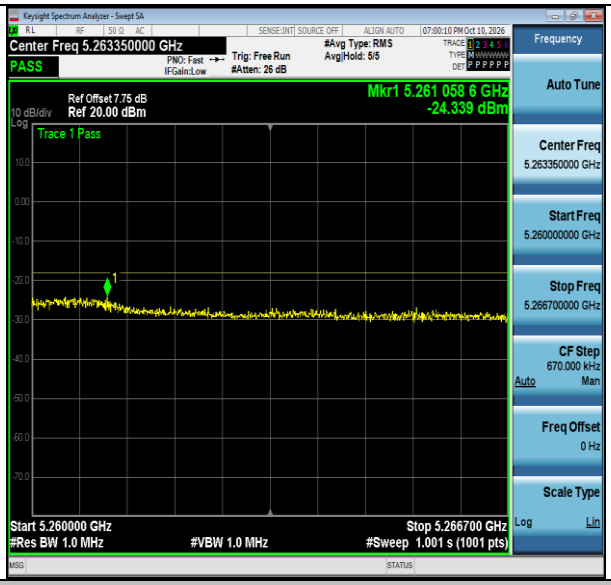


NTNV-11n20SISO-Ant1-5240-5250~5251-See Step2

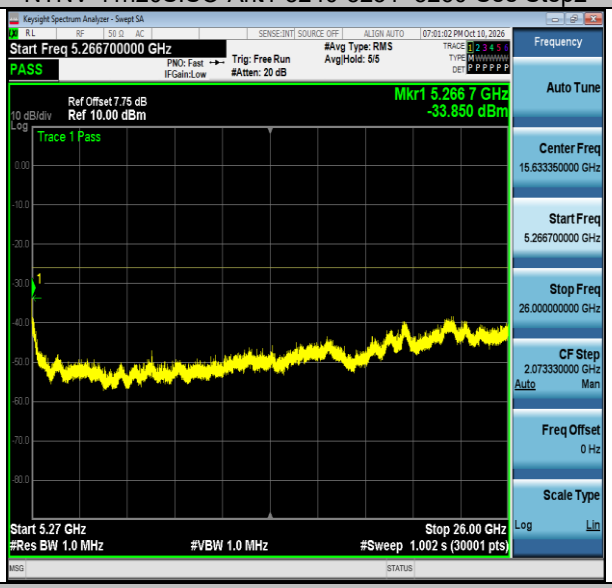
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NTNV-11n20SISO-Ant1-5240-5251~5260-See Step2



NTNV-11n20SISO-Ant1-5240-5260~5266.7-See Step2



NTNV-11n20SISO-Ant1-5240-5266.7~26000-See Step2



NTNV-11n20SISO-Ant1-5260-30~5233.3-See Step2



NTNV-11n20SISO-Ant1-5260-5233.3~5240-See Step2

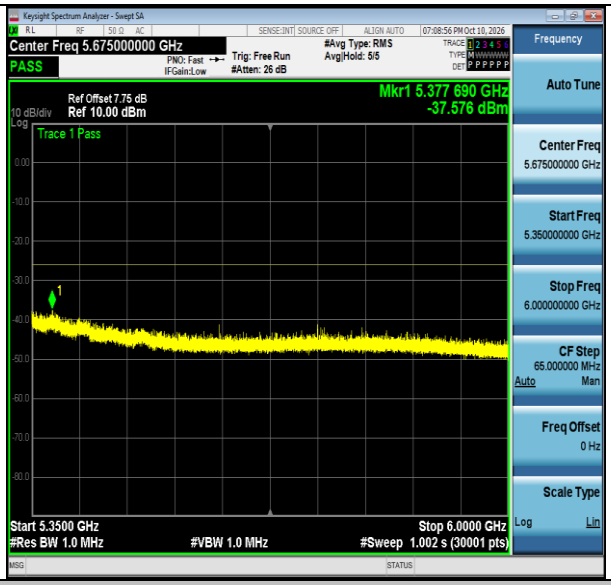


NTNV-11n20SISO-Ant1-5260-5240~5249-See Step2

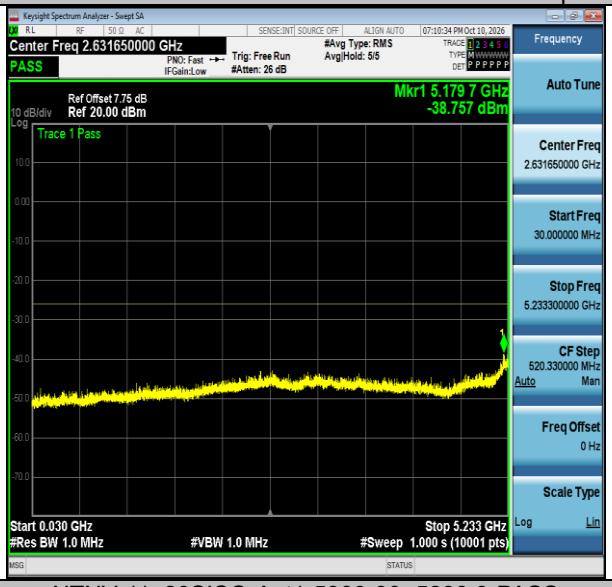
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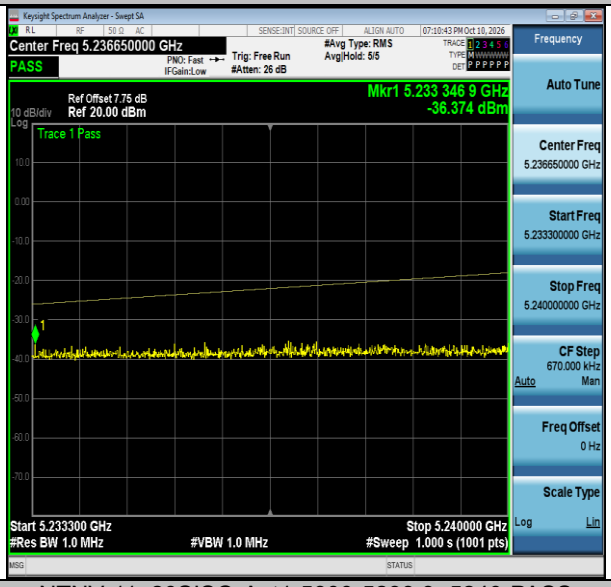
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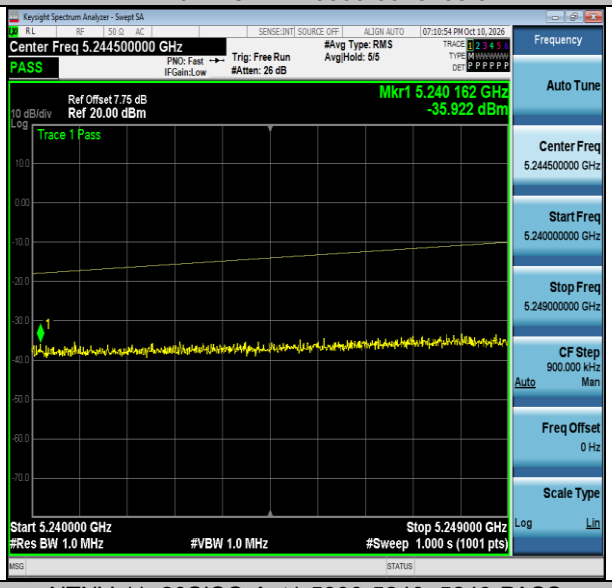
NTNV-11n20SISO-Ant1-5260-5350~6000-PASS



NTNV-11n20SISO-Ant1-5300-30~5233.3-PASS



NTNV-11n20SISO-Ant1-5300-5233.3~5240-PASS

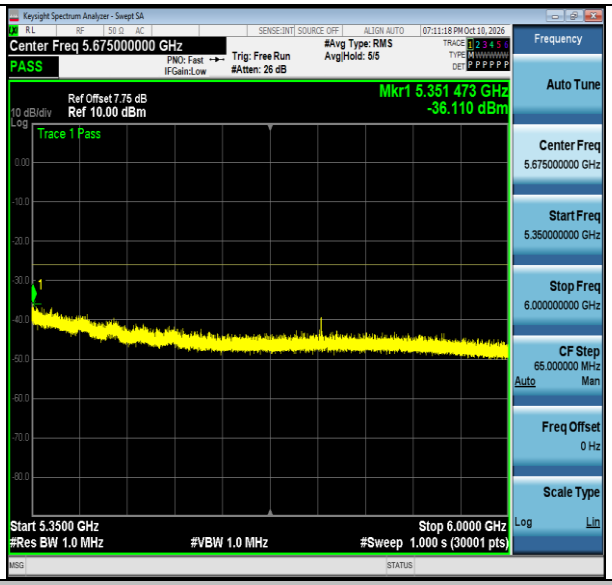


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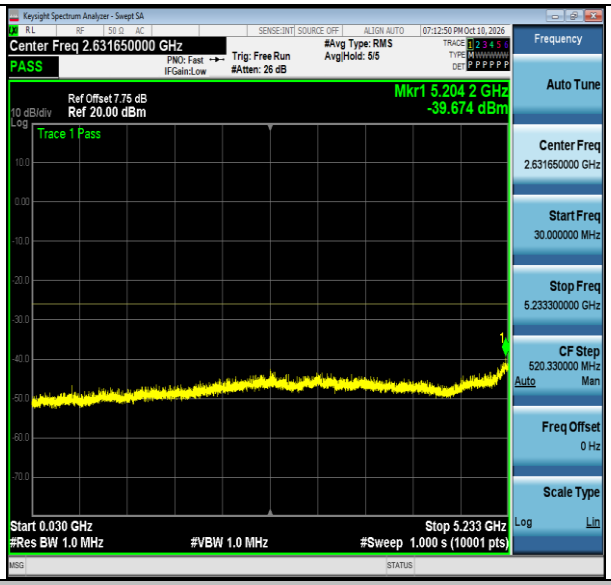


NTNV-11n20SISO-Ant1-5300-5249~5250-PASS

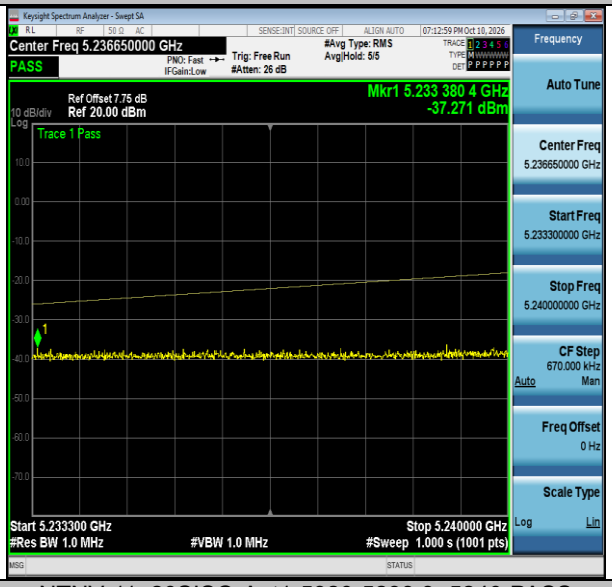
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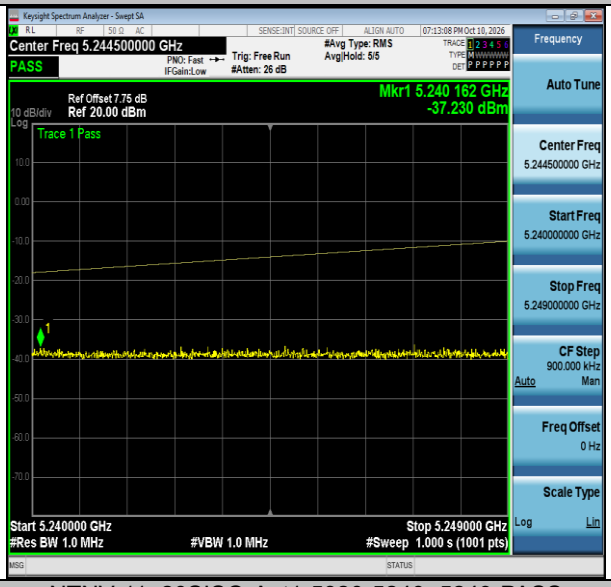
NTNV-11n20SISO-Ant1-5300-5350~6000-PASS



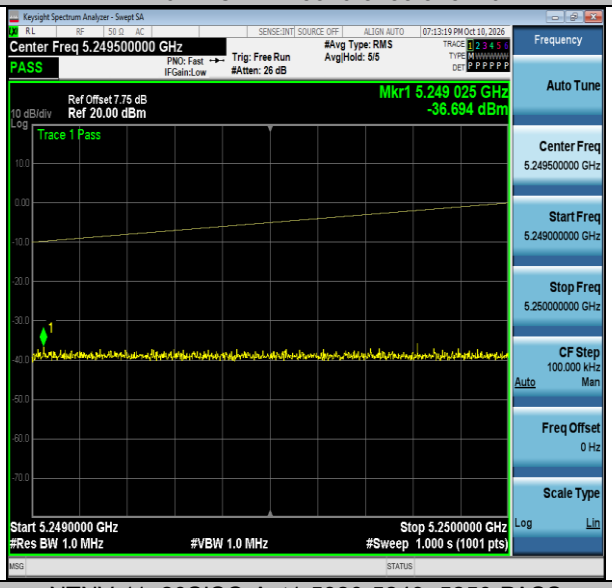
NTNV-11n20SISO-Ant1-5320-30~5233.3-PASS



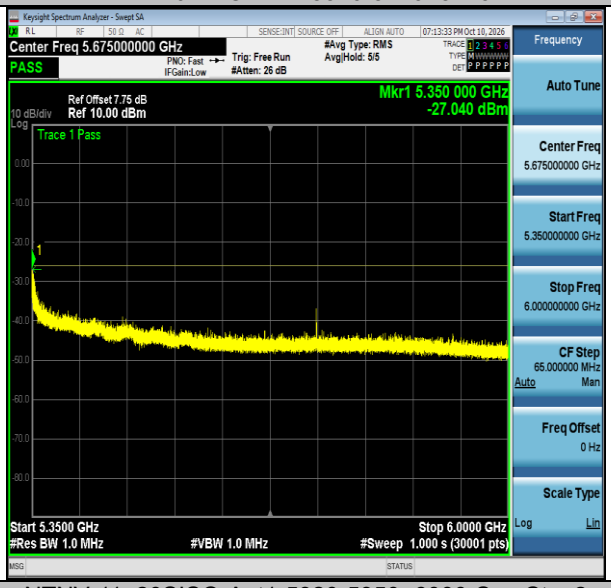
NTNV-11n20SISO-Ant1-5320-5233.3~5240-PASS



NTNV-11n20SISO-Ant1-5320-5240~5249-PASS

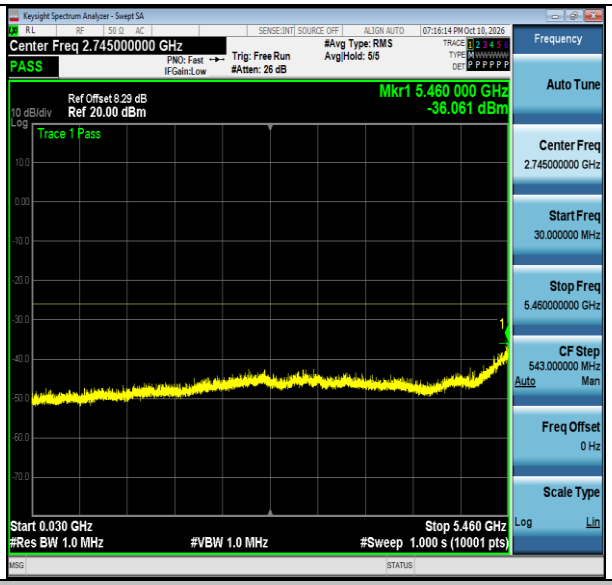


NTNV-11n20SISO-Ant1-5320-5249~5250-PASS

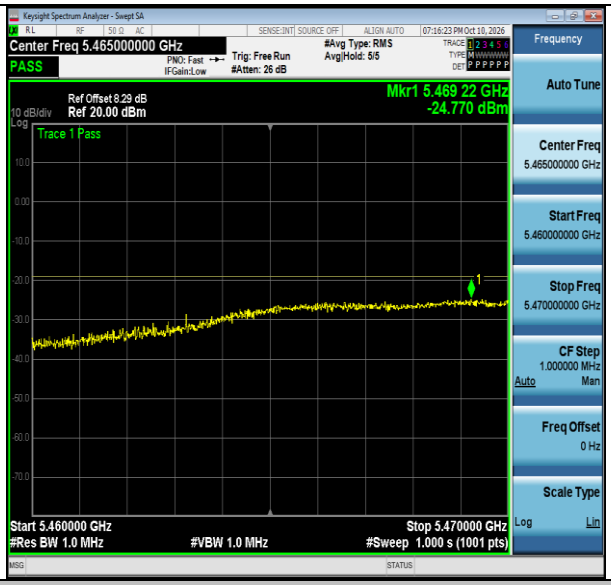


NTNV-11n20SISO-Ant1-5320-5350~6000-See Step2

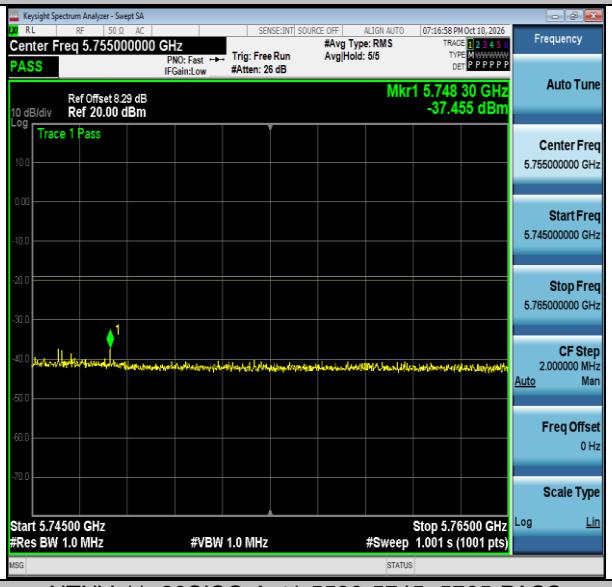
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NTNV-11n20SISO-Ant1-5500-30~5460-PASS



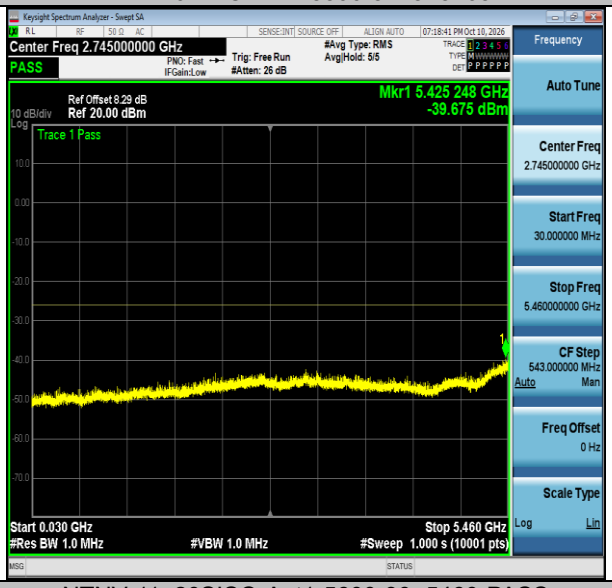
NTNV-11n20SISO-Ant1-5500-5460~5470-See Step2



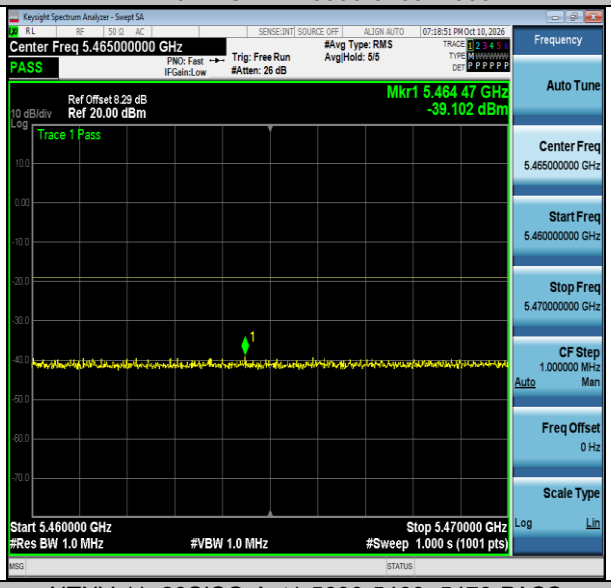
NTNV-11n20SISO-Ant1-5500-5745~5765-PASS



NTNV-11n20SISO-Ant1-5500-5765~7000-PASS

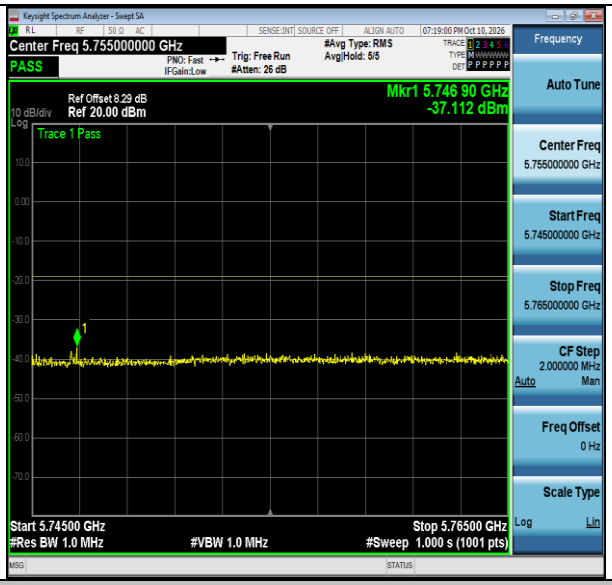


NTNV-11n20SISO-Ant1-5600-30~5460-PASS

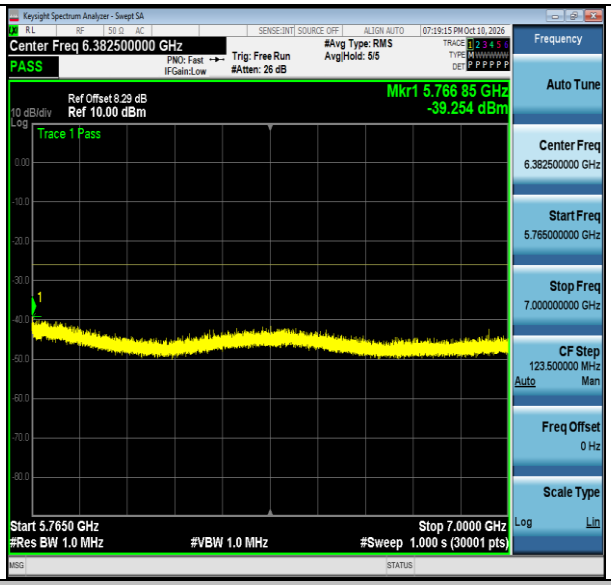


NTNV-11n20SISO-Ant1-5600-5460~5470-PASS

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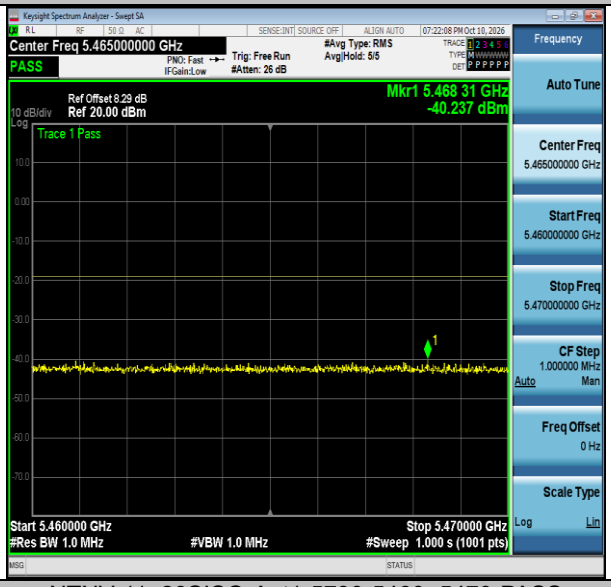
NTNV-11n20SISO-Ant1-5600-5745~5765-PASS



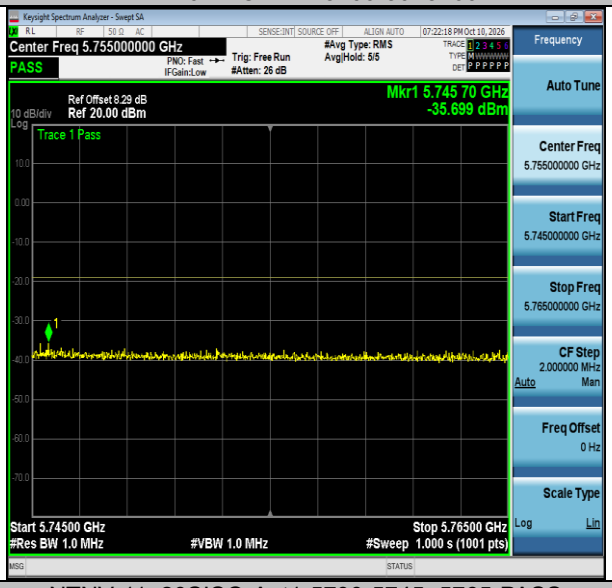
NTNV-11n20SISO-Ant1-5600-5765~7000-PASS



NTNV-11n20SISO-Ant1-5700-30~5460-PASS



NTNV-11n20SISO-Ant1-5700-5460~5470-PASS

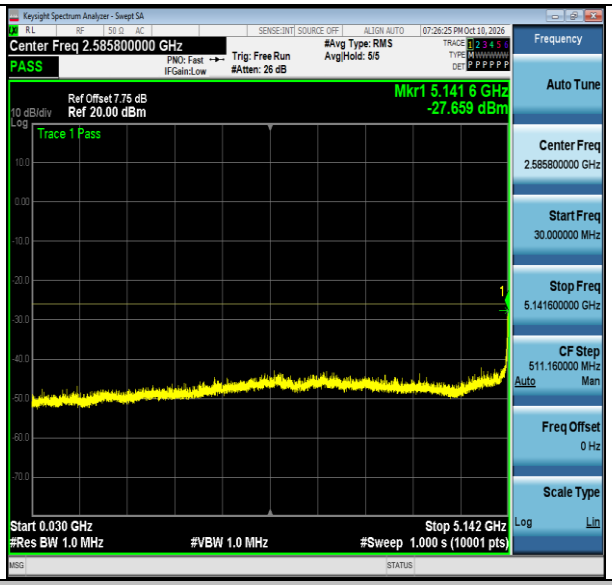


NTNV-11n20SISO-Ant1-5700-5745~5765-PASS

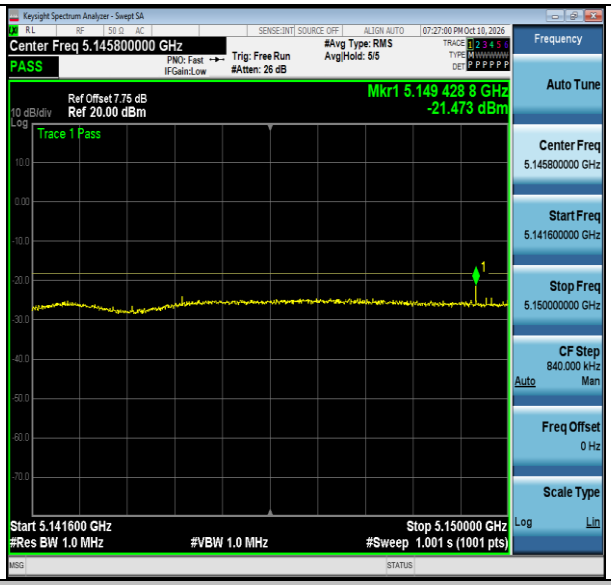


NTNV-11n20SISO-Ant1-5700-5765~7000-PASS

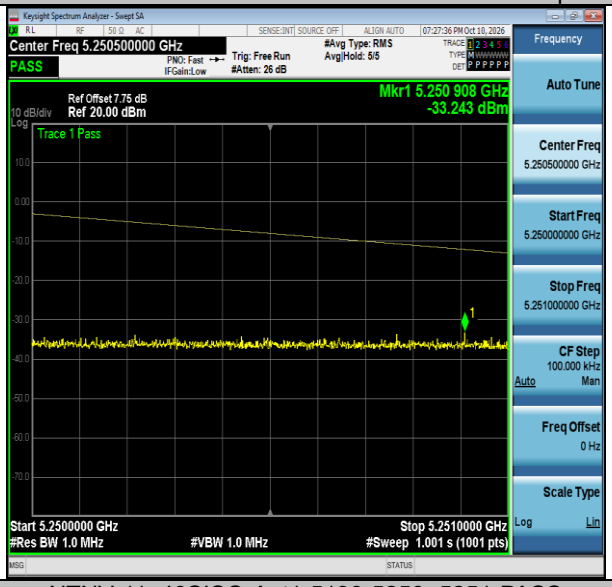
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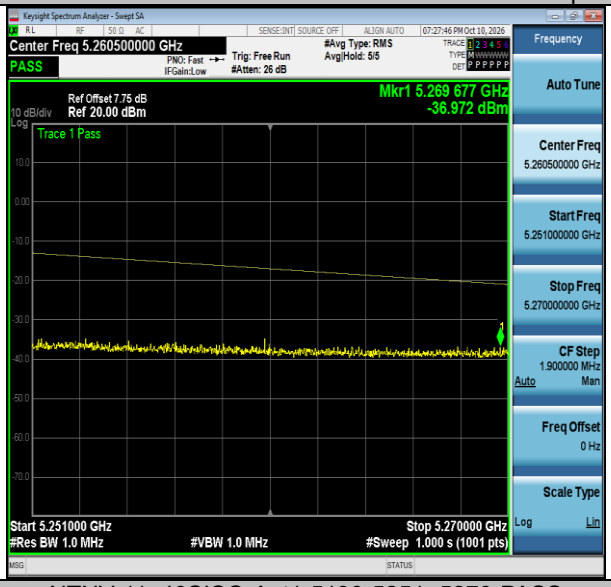
NTNV-11n40SISO-Ant1-5190-30~5141.6-See Step2



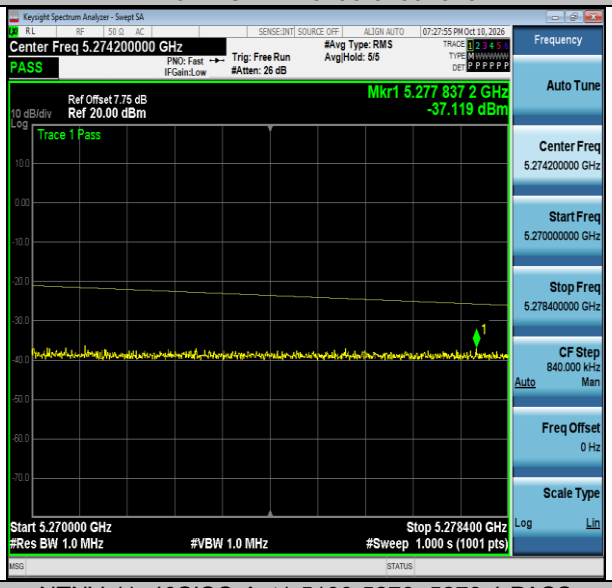
NTNV-11n40SISO-Ant1-5190-5141.6~5150-See Step2



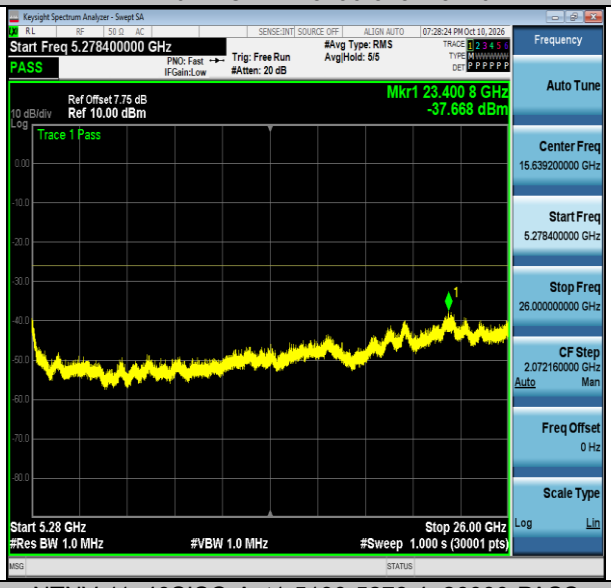
NTNV-11n40SISO-Ant1-5190-5250~5251-PASS



NTNV-11n40SISO-Ant1-5190-5251~5270-PASS

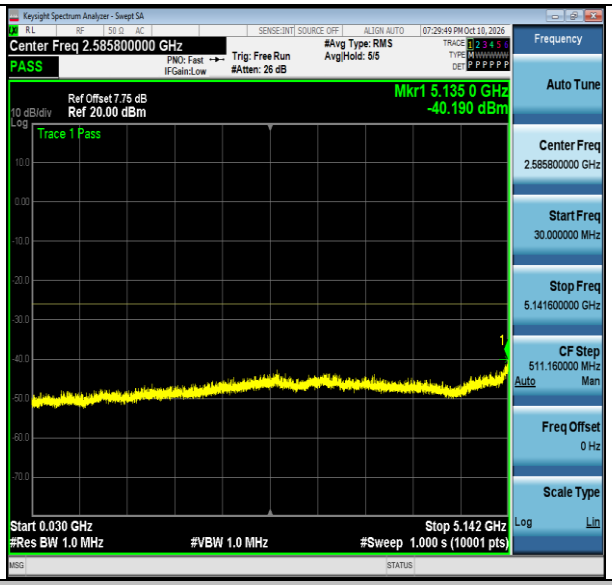


NTNV-11n40SISO-Ant1-5190-5270~5278.4-PASS

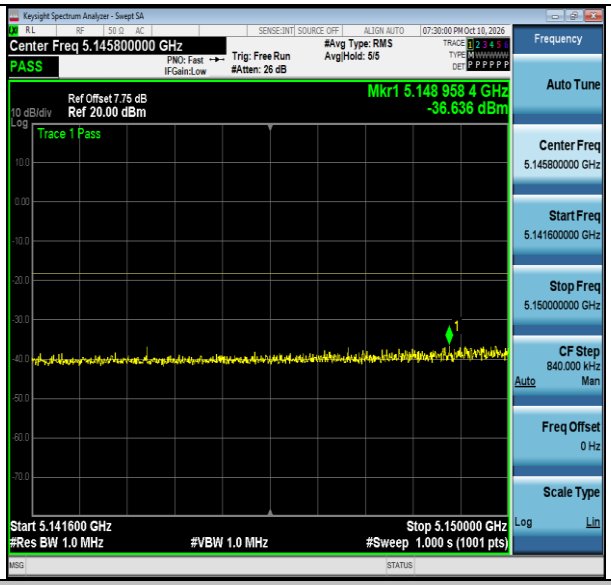


NTNV-11n40SISO-Ant1-5190-5278.4~26000-PASS

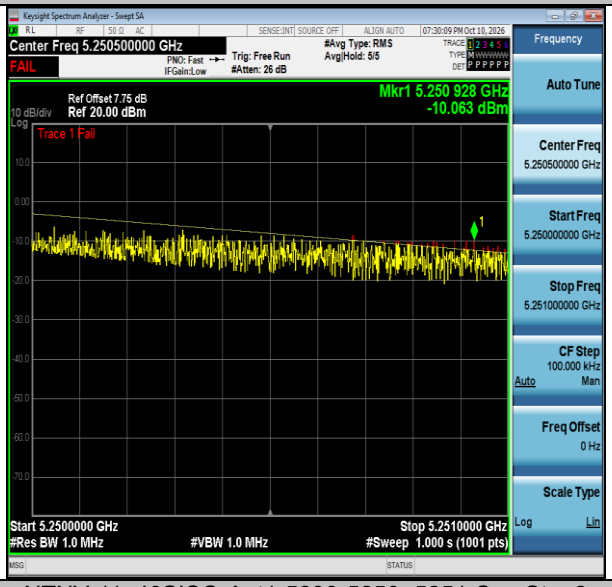
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NTNV-11n40SISO-Ant1-5230-30~5141.6-PASS



NTNV-11n40SISO-Ant1-5230-5141.6~5150-PASS



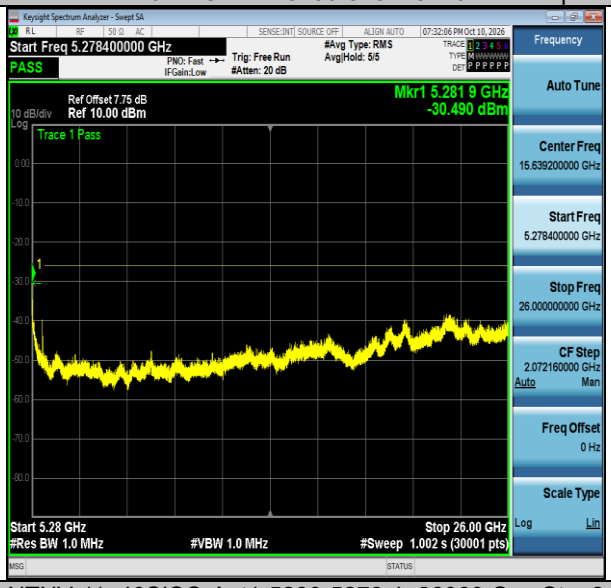
NTNV-11n40SISO-Ant1-5230-5250~5251-See Step2



NTNV-11n40SISO-Ant1-5230-5251~5270-See Step2

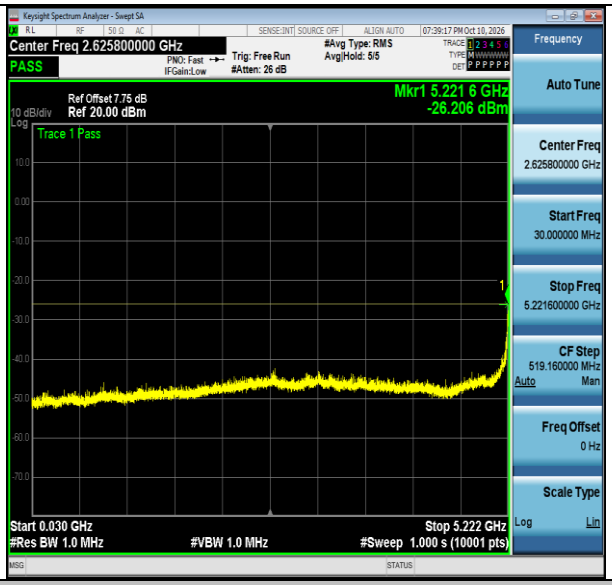


NTNV-11n40SISO-Ant1-5230-5270~5278.4-See Step2



NTNV-11n40SISO-Ant1-5230-5278.4~26000-See Step2

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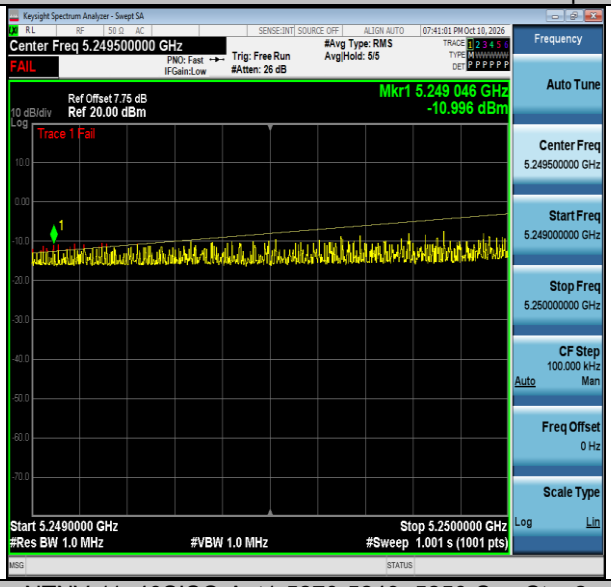
NTNV-11n40SISO-Ant1-5270-30~5221.6-See Step2



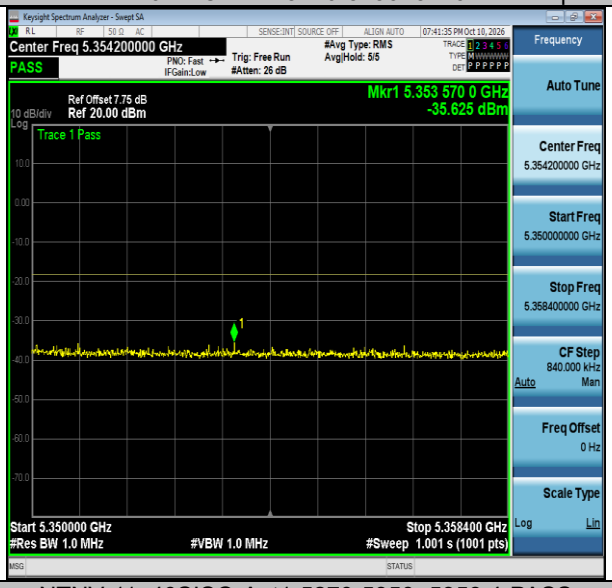
NTNV-11n40SISO-Ant1-5270-5221.6~5230-See Step2



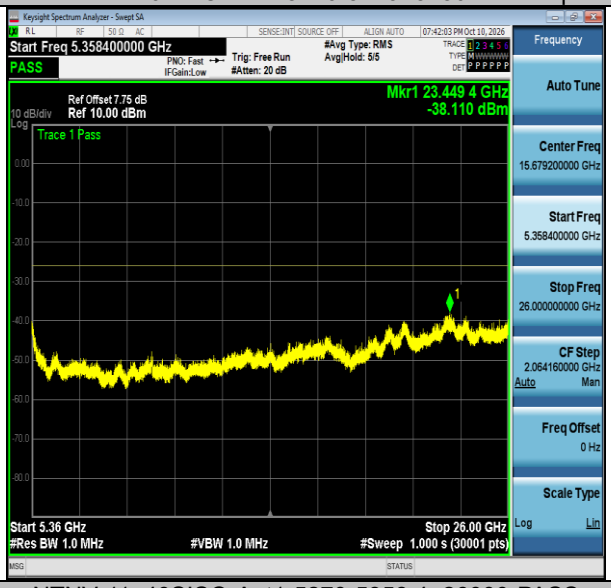
NTNV-11n40SISO-Ant1-5270-5230~5249-See Step2



NTNV-11n40SISO-Ant1-5270-5249~5250-See Step2

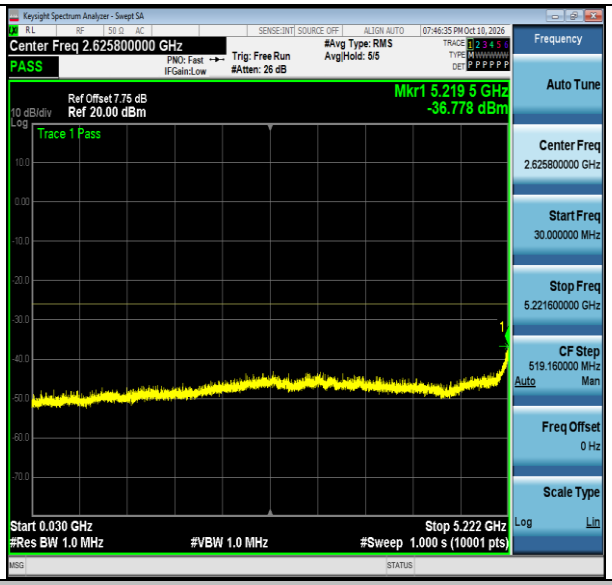


NTNV-11n40SISO-Ant1-5270-5350~5358.4-PASS

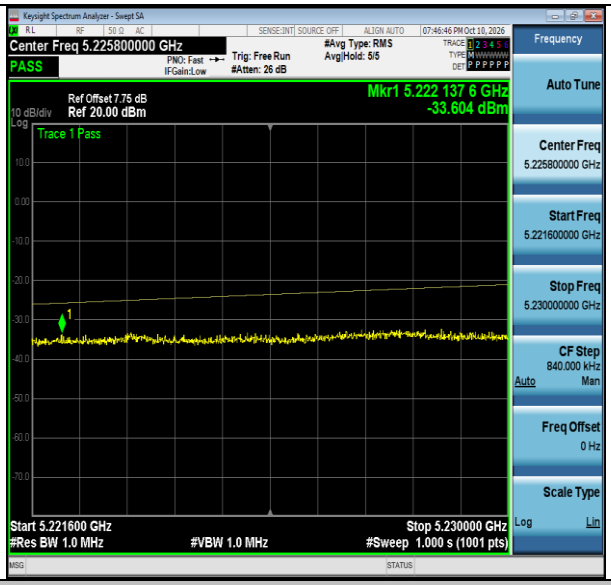


NTNV-11n40SISO-Ant1-5270-5358.4~26000-PASS

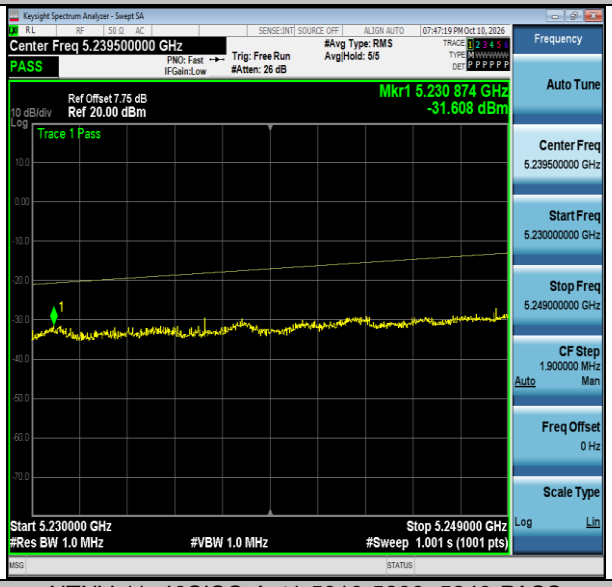
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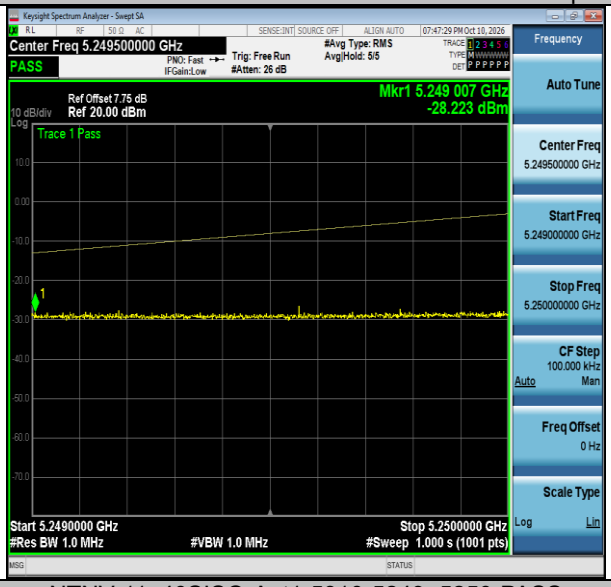
NTNV-11n40SISO-Ant1-5310-30~5221.6-PASS



NTNV-11n40SISO-Ant1-5310-5221.6~5230-See Step2



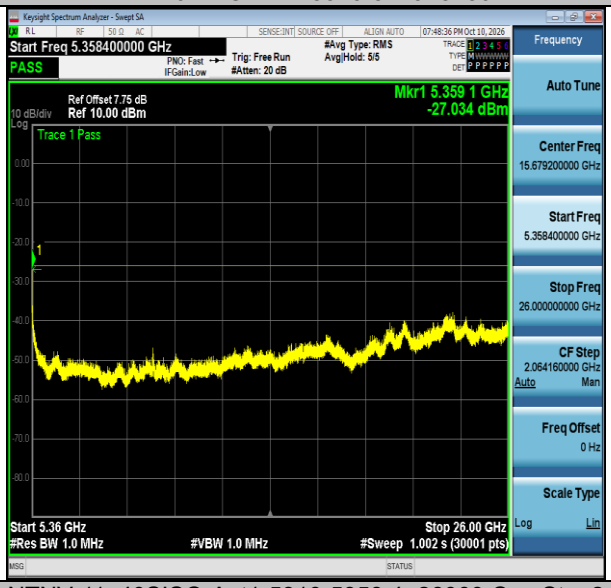
NTNV-11n40SISO-Ant1-5310-5230~5249-PASS



NTNV-11n40SISO-Ant1-5310-5249~5250-PASS

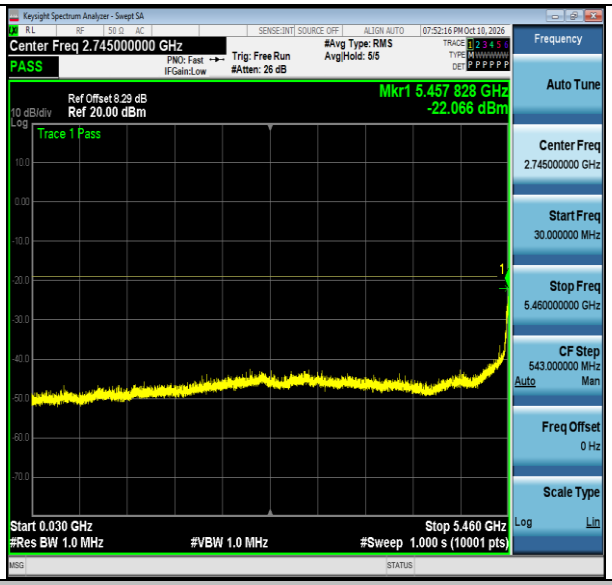


NTNV-11n40SISO-Ant1-5310-5350~5358.4-See Step2



NTNV-11n40SISO-Ant1-5310-5358.4~26000-See Step2

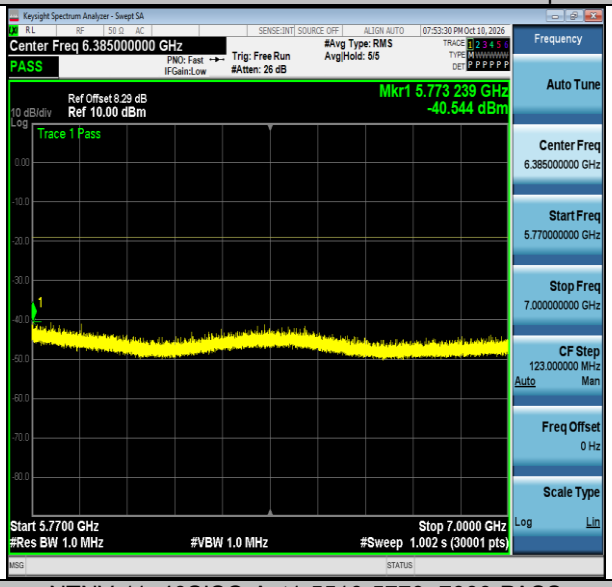
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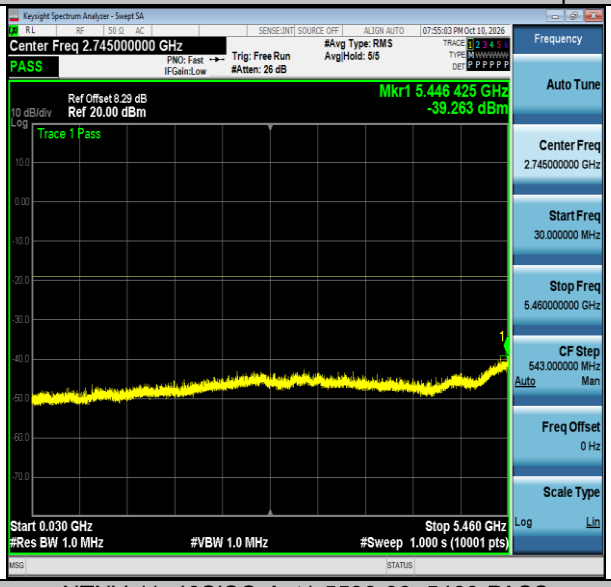
NTNV-11n40SISO-Ant1-5510-30~5460-See Step2



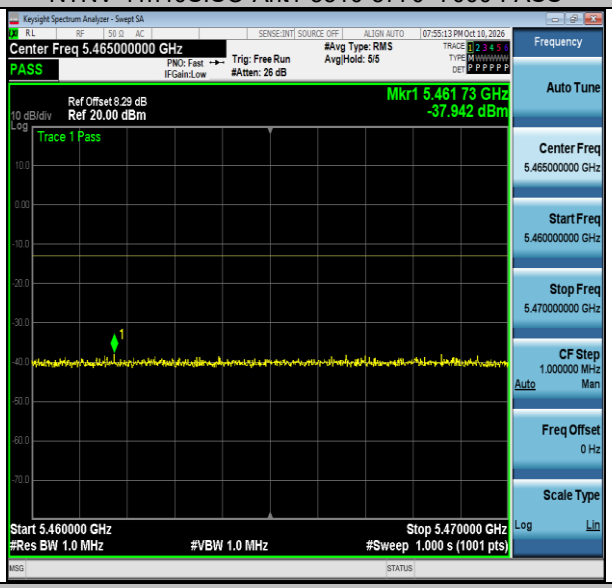
NTNV-11n40SISO-Ant1-5510-5460~5470-See Step2



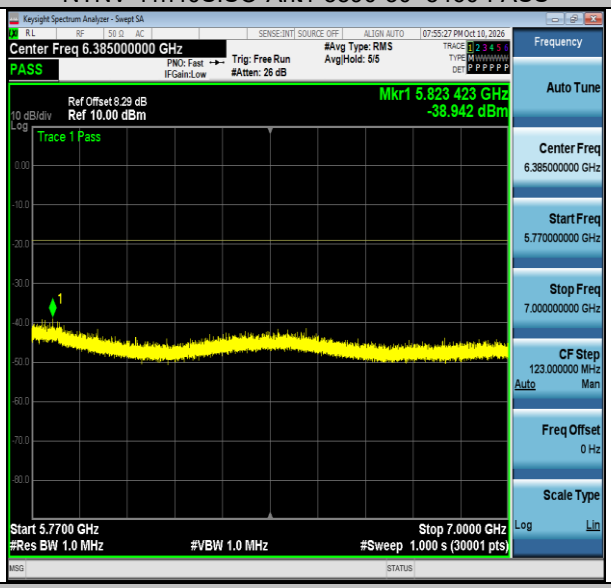
NTNV-11n40SISO-Ant1-5510-5770~7000-PASS



NTNV-11n40SISO-Ant1-5590-30~5460-PASS

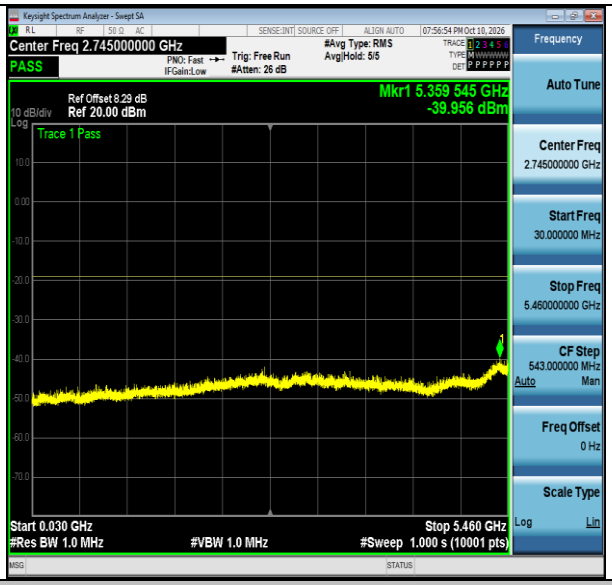


NTNV-11n40SISO-Ant1-5590-5460~5470-PASS

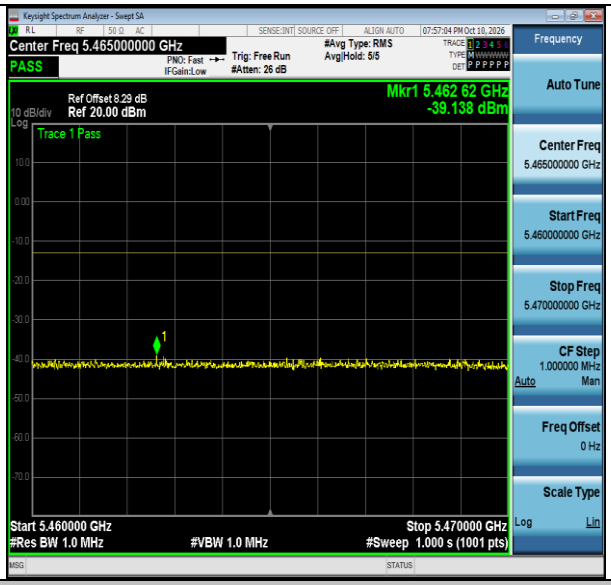


NTNV-11n40SISO-Ant1-5590-5770~7000-PASS

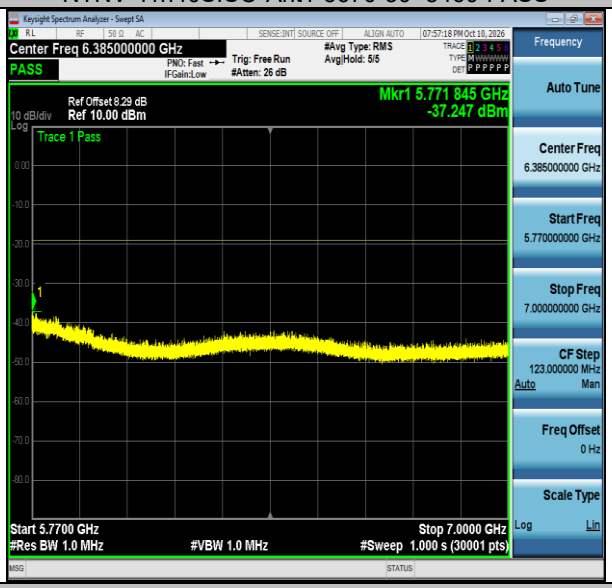
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NTNV-11n40SISO-Ant1-5670-30~5460-PASS



NTNV-11n40SISO-Ant1-5670-5460~5470-PASS



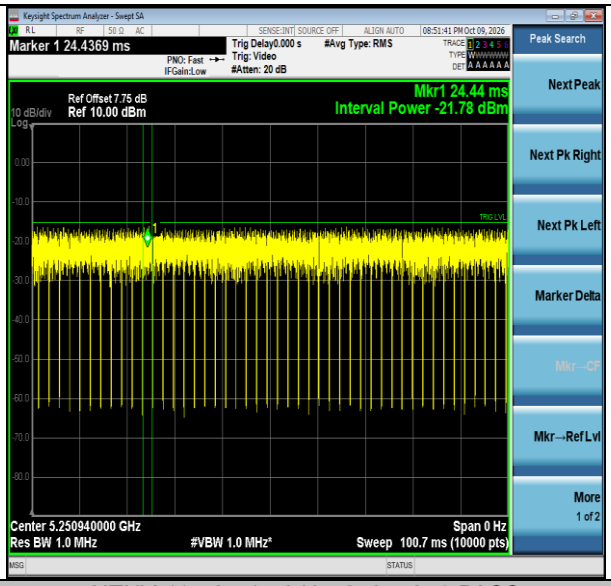
NTNV-11n40SISO-Ant1-5670-5770~7000-PASS

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Test Graphs_Step2



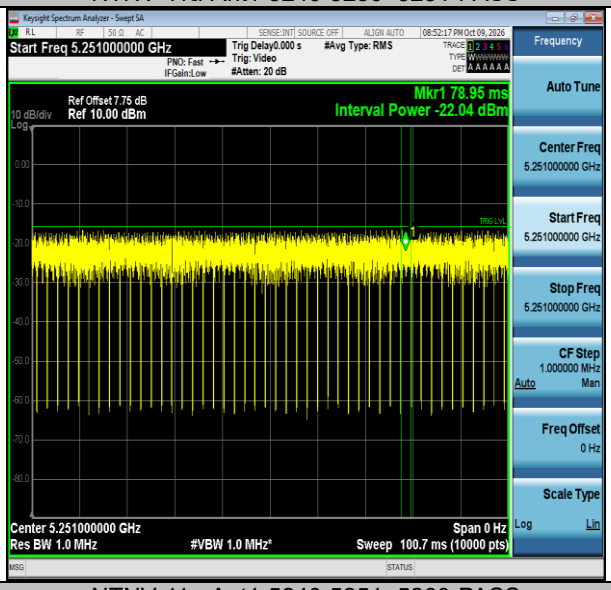
NTNV-11a-Ant1-5240-5250~5251-PASS



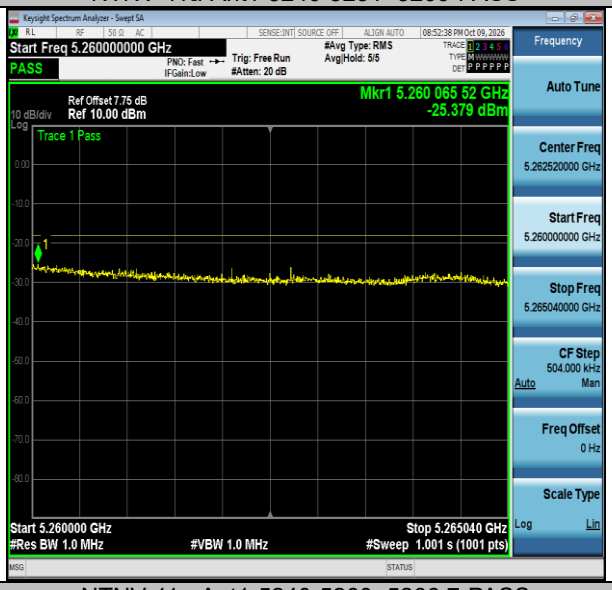
NTNV-11a-Ant1-5240-5250~5251-PASS



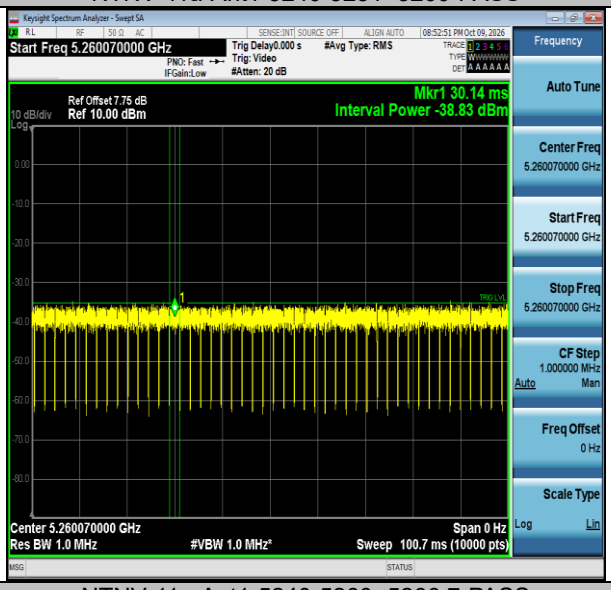
NTNV-11a-Ant1-5240-5251~5260-PASS



NTNV-11a-Ant1-5240-5251~5260-PASS



NTNV-11a-Ant1-5240-5260~5266.7-PASS



NTNV-11a-Ant1-5240-5260~5266.7-PASS

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