



REPORT No.: SZ24110315W05

TEST REPORT

APPLICANT : Anker Innovations Limited

PRODUCT NAME : NEBULA X1

MODEL NAME : D2351

BRAND NAME : NEBULA

FCC ID : 2AOKB-D2351

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2024-12-11

TEST DATE : 2024-12-24 to 2025-01-21

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Change History		
Version	Date	Reason for change
1.0	2025-01-24	First edition



1. Summary of Test Result

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS	No deviation
2	N/A	Duty Cycle of Test Signal	Jan. 06, 2025	Li Zikai	PASS	No deviation
3	15.247(b)	Maximum Peak Conducted Output Power	Jan. 06, 2025	Li Zikai	PASS	No deviation
4	15.247(b)	Maximum Average Conducted Output Power	Jan. 06, 2025	Li Zikai	PASS	No deviation
5	15.247(a)	Bandwidth	Jan. 06, 2025	Li Zikai	PASS	No deviation
6	15.247(d)	Conducted Spurious Emission and Band Edge	Jan. 06, 2025	Li Zikai	PASS	No deviation
7	15.247(e)	Power Spectral Density	Jan. 06, 2025	Li Zikai	PASS	No deviation
8	15.207	Conducted Emission	Dec. 28, 2024	Fan Shengquan	PASS	No deviation
9	15.247(d)	Restricted Frequency Bands	Dec. 25&28, 2024	Gao Jianrou	PASS	No deviation
10	15.209, 15.247(d)	Radiated Emission	Dec. 24&26, 2024	Gao Jianrou	PASS	No deviation

Note 1: The tests were performed according to the method of measurements prescribed in ANSI C63.10-2013 and KDB 558074 D01 v05r02.

Note 2: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 3: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.



1.1. Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart C Radio Frequency Devices



1.2. Test Equipment List

1.2.1 Conducted Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2024.02.19	2025.02.18
Power Sensor	MY54180008	U2021XA	Agilent	2024.09.11	2025.09.10
Attenuator	MTJ6004-20	VAT-10+	MTJ Cooperation	N/A	N/A
RF Cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
SMA Connector	CN01	RF03	HUBER-SUHNER	N/A	N/A

1.2.2 Conducted Emission Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2024.01.25	2025.01.24
LISN	8127449	NSLK 8127	Schwarzbeck	2024.02.02	2025.02.01
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2024.05.30	2025.05.29
RF Coaxial Cable (DC-100MHz)	BNC	MRE04	Qualwave	2024.07.02	2025.07.01

1.2.3 List of Software Used

Description	Manufacturer	Software Version
Test System	MaiWei	V2.0.0.0
TS+ -[JS36-RSE]	Tonscend	V3.0.0.0
TS+ -[JS32-CE]	Tonscend	V2.5.0.0
TS+	Tonscend	V5.0.0

**.2.4 Radiated Test Equipment**

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Signal Analyzer	MY56060145	N9020A	Agilent	2024.05.30	2025.05.29
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2024.06.03	2025.06.02
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2024.06.22	2025.06.21
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2024.07.03	2025.07.02
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2024.07.03	2025.07.02
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2024.07.03	2025.07.02
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.05.10	2025.05.09



1.3. Measurement Uncertainty

Test Items	Uncertainty	Remark
Peak Output Power	$\pm 2.22\text{dB}$	Confidence levels of 95%
Power Spectral Density	$\pm 2.22\text{dB}$	Confidence levels of 95%
Bandwidth	$\pm 5\%$	Confidence levels of 95%
Conducted Spurious Emission	$\pm 2.77\text{dB}$	Confidence levels of 95%
Restricted Frequency Bands	$\pm 5\%$	Confidence levels of 95%
Radiated Emission	$\pm 2.95\text{dB}$	Confidence levels of 95%
Conducted Emission	$\pm 2.44\text{dB}$	Confidence levels of 95%

1.4. Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
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FCC Designation Number:	CN1192
FCC Test Firm Registration Number:	226174

2. General Description

2.1. Information of Applicant and Manufacturer

Applicant:	Anker Innovations Limited
Applicant Address:	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong
Manufacturer:	Anker Innovations Limited
Manufacturer Address:	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong

2.2. Information of EUT

Product Name:	NEBULA X1		
Sample No.:	1#, 2#, 3#		
Hardware Version:	V03		
Software Version:	V11.0.18.7		
Modulation Technology:	DSSS, OFDM		
Modulation Type:	Refer to section 1.3		
Wireless Technology:	802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40)		
Operating Frequency Range:	2412MHz–2462MHz		
Antenna Type:	Dipole Antenna		
Antenna Gain (dBi):	ANT 0	ANT 1	Directional Gain Note 2
	4.5	4.87	7.70
Accessory Information:	AC Adapter		
	Brand Name:	N/A	
	Model No.:	NSA240EC-22010900	
	Serial No.:	N/A	
	Rated Output:	100-240V~ 50/60Hz, 2.5A	
	Rated Input:	22.0V=10.9A	
	Manufacturer:	Shenzhen JingQuanHua&Everrise Intelligent Electric Co., Ltd.	

Note 1: The EUT supports a MIMO function. Physically, the EUT provides two completed transmitters and two receivers for 802.11n modulation mode.

Modulation Mode:	TX Function
802.11b/g	1TX
802.11n	2TX



Note 2: Directional gain is calculated based on KDB 662911 D01

KDB 662911 D01 Directional Gain Calculation			
Clause	Type	Correlation	Calculation formula
F.2.a	Equal G_{ANT} & Power	☐ (i). Correlated	$G_{ANT} + 10\log(N_{ANT})$
		☐ (ii). Uncorrelated	G_{ANT}
F.2.d	Unequal G_{ANT} & Equal Power	☒ (i). Correlated	$10\log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/N_{ANT}]$
		☐ (ii). Uncorrelated	$10\log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$

Where G_{ANT} is the antenna gain in dBi, N_{ANT} is the number of outputs.

Note 3: All radiation test items for 802.11n modulation mode operate at MIMO mode during the test. Other modulation mode operate at SISO mode, both of the two antennas were tested separately, we only recorded the worst test result (ANT0) in this report.

Note 4: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

2.3.Channel List of EUT

Nominal Channel Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	1	2412	8	2447
	2	2417	9	2452
	3	2422	10	2457
	4	2427	11	2462
	5	2432		
	6	2437		
	7	2442		
Nominal Channel Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
40MHz	3	2422	8	2447
	4	2427	9	2452
	5	2432		
	6	2437		
	7	2442		

Note 1: The black bold channels were selected for test.

2.4. Test Configuration of EUT

2.4.1. Modulation Type and Data Rate of EUT

Mode	Bandwidth (MHz)	Modulation Technology	Modulation Type	Data Rate
802.11b	20	DSSS	DBPSK	1/2/5.5/11Mbps
			DQPSK	
			CCK	
802.11g	20	OFDM	BPSK	6/9/12/18/24/36/48/54Mbps
			QPSK	
			16QAM	
			64QAM	
802.11n	20/40 (HT20/40)	OFDM	BPSK	MCS0~MCS7
			QPSK	
			16QAM	
			64QAM	

Note1: The worst-case mode (bold face) in all data rates has been determined during the pre-scan, only the test data of the worst-case were recorded in this report.

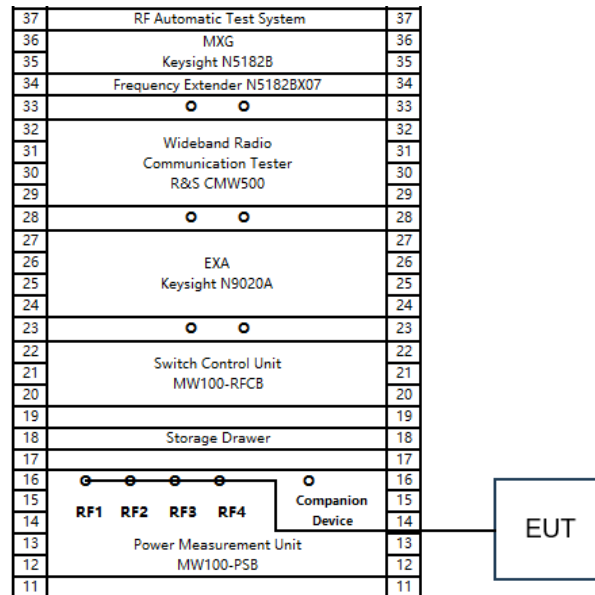
Note2: The RF signal transmission of EUT is controlled by the build-in engineering mode which is provided by the manufacturer. The recorded power setting value is the maximum that the engineering mode has configuration during testing.

2.5. Test Conditions

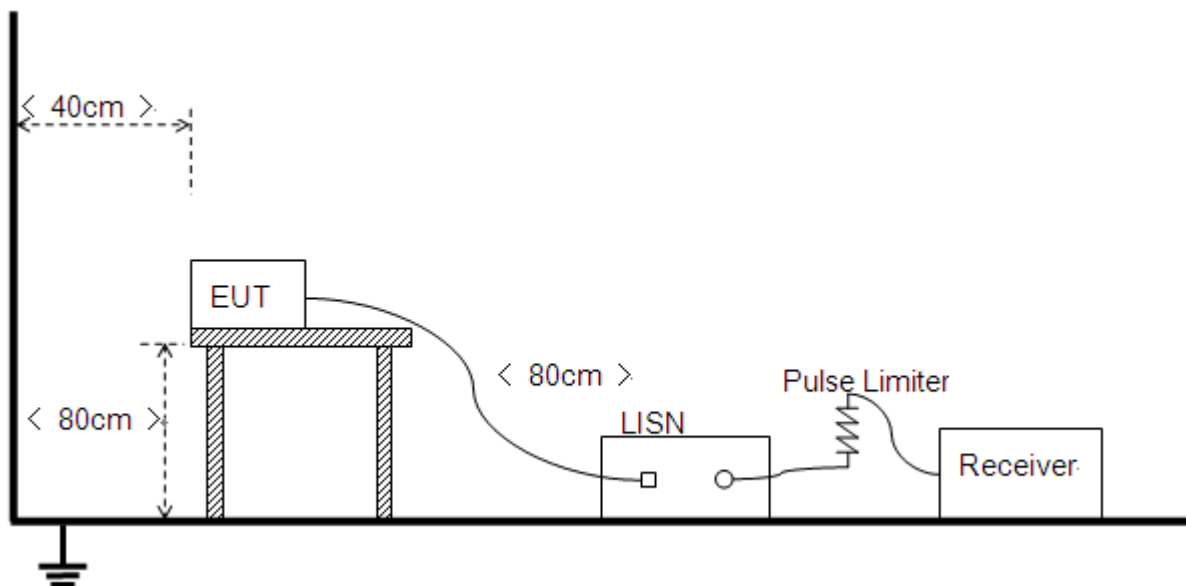
Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement

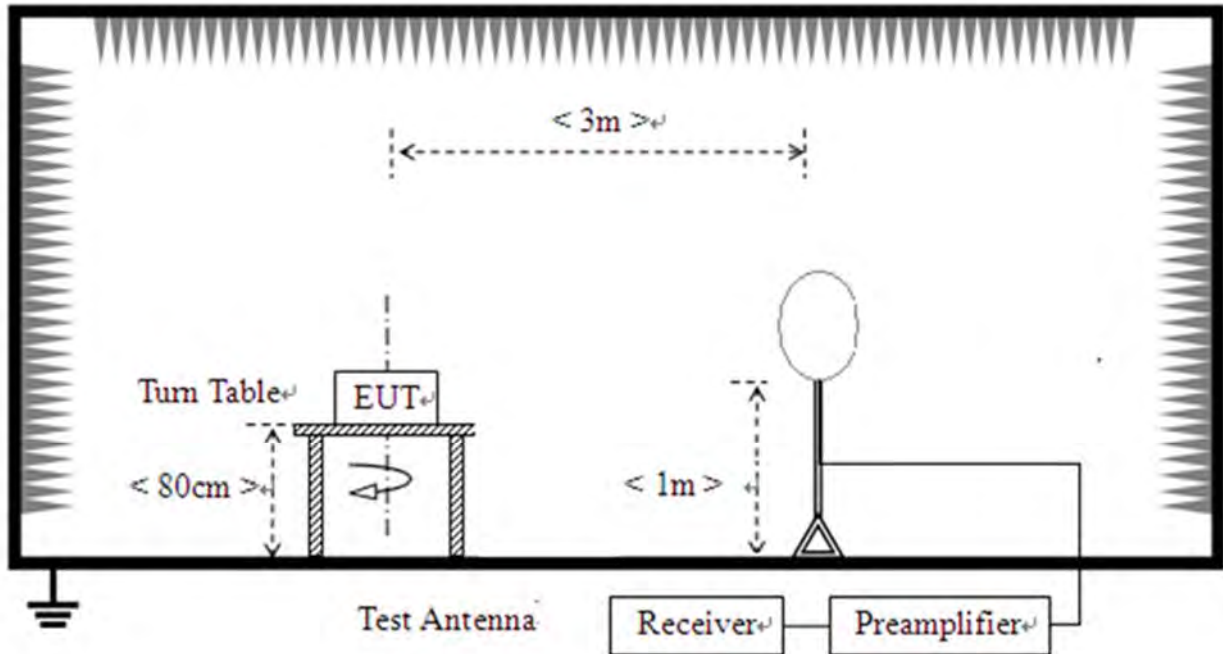


2.6.2. Conducted Emission Measurement

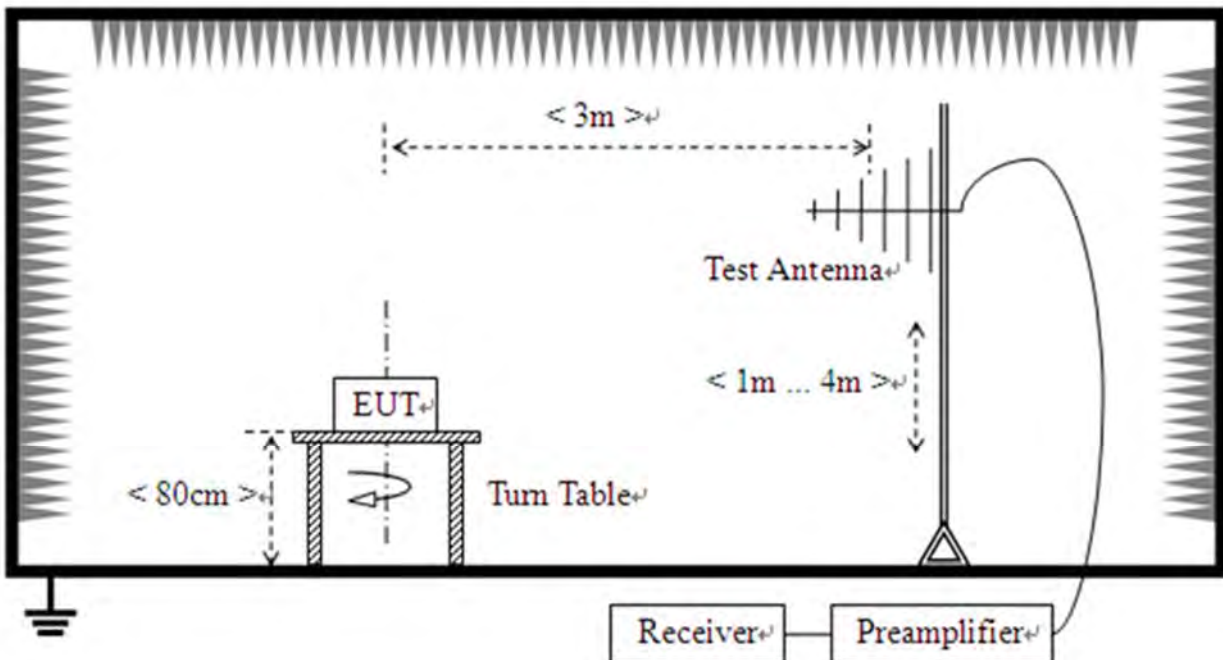


2.6.3.Radiation Measurement

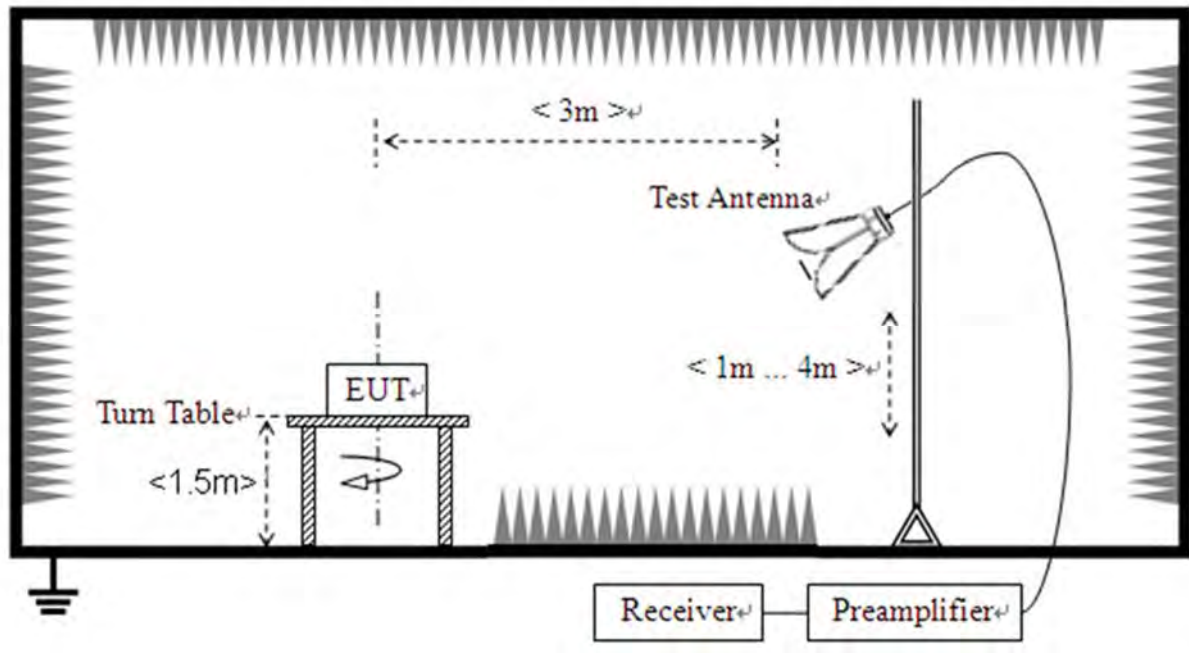
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz





3. Test Results

3.1. Antenna Requirement

3.1.1. Requirement

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.1.2. Test Result

Antenna location	Antenna Type	Coupling Method
☒ Internal ☐ External	☐ FPC Antenna ☐ Spring Antenna ☐ Ceramic Antenna ☐ Integrated Antenna ☒ Dipole Antenna ☐ PCB Antenna ☐ PIFA Antenna ☐ On-board Antenna	☒ I-PEX Connector ☐ SMA Connector ☐ RP-SMA Connector ☐ Metal Shrapnel ☐ Layout

3.2. Duty Cycle of Test Signal

3.2.1. Requirement

Preferably, all measurements of maximum conducted (average) output power will be performed with the EUT transmitting continuously (i.e., with a duty cycle of greater than or equal to 98%). When continuous operation cannot be realized, then the use of sweep triggering/signal gating techniques can be used to ensure that measurements are made only during transmissions at the maximum power control level. Such sweep triggering/signal gating techniques will require knowledge of the minimum transmission duration (T) over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Sweep triggering/signal gating techniques can then be used if the measurement/sweep time of the analyzer can be set such that it does not exceed T at any time that data are being acquired (i.e., no transmitter OFF-time is to be considered).

When continuous transmission cannot be achieved and sweep triggering/signal gating cannot be implemented, alternative procedures are provided that can be used to measure the average power; however, they will require an additional measurement of the transmitter duty cycle (D). Within this sub clause, the duty cycle refers to the fraction of time over which the transmitter is ON and is transmitting at its maximum power control level. The duty cycle is considered to be constant if variations are less than $\pm 2\%$; otherwise, the duty cycle is considered to be non constant.

3.2.2. Test Result

Refer to Annex A.1 in this report.



3.3. Maximum Peak and Average Conducted Output Power

3.3.1. Requirement

According to FCC section 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: The maximum conducted output power of the intentional radiator shall not exceed 1 Watt. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in above of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2. Test Procedures

The EUT (Equipment under the test) which is coupled to the USB Wideband Power Sensor; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

3.3.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.3.4. Test Result

Refer to Annex A.2 and A.3 in this report.



3.4.6 dB Bandwidth

3.4.1.Requirement

According to FCC section 15.247(a) (2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6dB bandwidth shall be at least 500 kHz.

3.4.1.Test Procedures

KDB 558074 Section 8.2 was used in order to prove compliance.

3.4.2.Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.4.3.Test Result

Refer to Annex A.4 in this report.



3.5. Conducted Spurious Emissions and Band Edge

3.5.1. Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

3.5.2. Test Procedures

KDB 558074 Section 8.5 and 8.7 was used in order to prove compliance.

3.5.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.5.4. Test Result

Refer to Annex A.5 and A.6 in this report.



3.6. Power Spectral Density

3.6.1. Requirement

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

3.6.2. Test Procedures

The measured power spectral density was calculated by the reading of the spectrum analyzer and calibration. Following is the test procedure for PSD test:

- a) Set analyzer center frequency to channel center frequency
- b) Set span to 1.5 times DTS
- c) Set RBW to 30kHz
- d) Set VBW to 100kHz
- e) Detector = peak
- f) Sweep time = auto couple
- g) Trace mode = max hold
- h) Allow trace to fully stabilize
- i) Use the peak marker function to determine the maximum amplitude level and recorded as PD
- j) Use below formula to calculate the Conducted PSD value that at specified RBW:

Conducted PSD = PD - 10lg(30k/3k)

3.6.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.6.4. Test Result

Refer to Annex A.7 in this report.

3.7. Conducted Emission

3.7.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency Range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

Note:

- (a) The lower limit shall apply at the band edges.
- (b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

3.7.2. Test Procedures

The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.

3.7.3. Test Setup Layout

Refer to chapter 2.6.2 in this report.

3.7.4. Test Result

Refer to Annex A.8 in this report.



3.8.Restricted Frequency Bands

3.8.1.Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

3.8.2.Test Procedures

The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1\text{GHz}$, 100 kHz for $f < 1\text{GHz}$

VBW = 3 MHz

Sweep = auto

Detector function = peak/average

Trace = max hold

Allow the trace to stabilize

3.8.3.Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.8.4.Test Result

Refer to Annex A.9 in this report.



3.9. Radiated Emission

3.9.1. Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note1: For above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

Note2: For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK). In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).



3.9.2.Test Procedures

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 30MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9kHz-90 kHz, 110kHz-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements and as applicable for average measurements.

The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions. For measurements above 1 GHz, keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

3.9.3.Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.9.4.Test Result

Refer to Annex A.10 in this report.



Annex A Test Data and Result

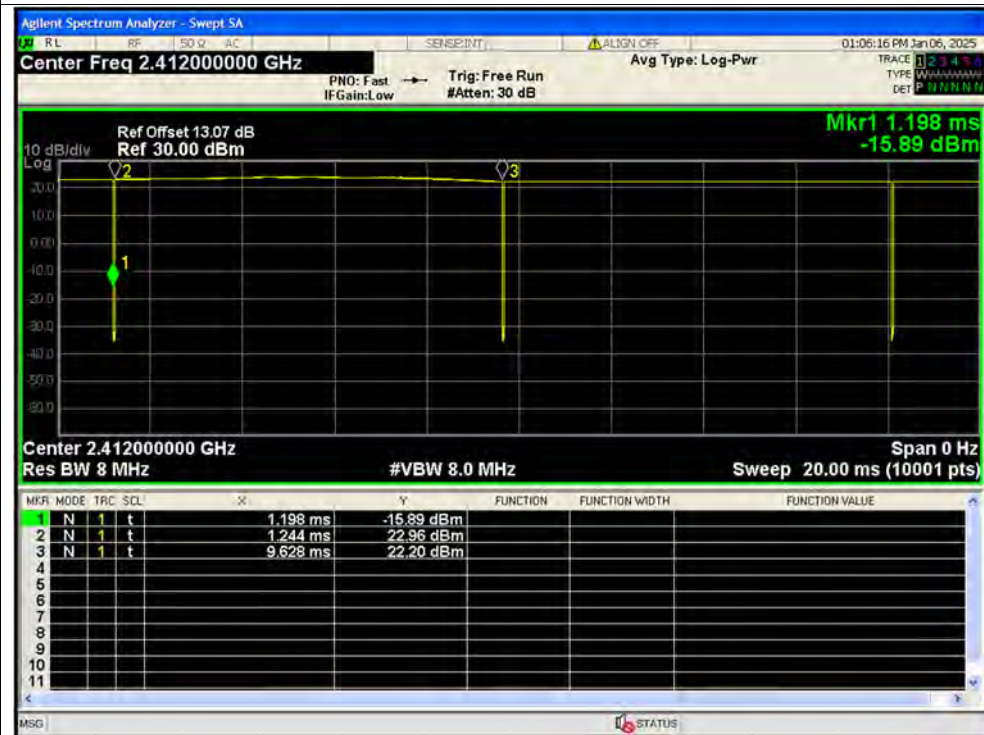
A.1. Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b SISO	2412	Ant0	99.45	0.02	0.12
NVNT	b SISO	2437	Ant0	99.45	0.02	0.12
NVNT	b SISO	2462	Ant0	99.45	0.02	0.12
NVNT	b SISO	2412	Ant1	99.45	0.02	0.12
NVNT	b SISO	2437	Ant1	99.45	0.02	0.12
NVNT	b SISO	2462	Ant1	99.43	0.02	0.12
NVNT	g SISO	2412	Ant0	96.4	0.16	0.72
NVNT	g SISO	2437	Ant0	96.54	0.15	0.72
NVNT	g SISO	2462	Ant0	96.4	0.16	0.72
NVNT	g SISO	2412	Ant1	96.4	0.16	0.72
NVNT	g SISO	2437	Ant1	96.4	0.16	0.72
NVNT	g SISO	2462	Ant1	96.27	0.17	0.72
NVNT	n20 SISO	2412	Ant0	96.16	0.17	0.77
NVNT	n20 SISO	2437	Ant0	96.16	0.17	0.77
NVNT	n20 SISO	2462	Ant0	96.31	0.16	0.77
NVNT	n20 SISO	2412	Ant1	96.01	0.18	0.77
NVNT	n20 SISO	2437	Ant1	96.01	0.18	0.77
NVNT	n20 SISO	2462	Ant1	96.15	0.17	0.77
NVNT	n20 MIMO	2412	Sum	96.02	0.18	0.77
NVNT	n20 MIMO	2437	Sum	96.16	0.17	0.77
NVNT	n20 MIMO	2462	Sum	96.16	0.17	0.77
NVNT	n40 SISO	2422	Ant0	92.57	0.34	1.54
NVNT	n40 SISO	2437	Ant0	92.57	0.34	1.54
NVNT	n40 SISO	2452	Ant0	92.59	0.33	1.54
NVNT	n40 SISO	2422	Ant1	92.57	0.34	1.54
NVNT	n40 SISO	2437	Ant1	92.31	0.35	1.54
NVNT	n40 SISO	2452	Ant1	92.31	0.35	1.54
NVNT	n40 MIMO	2422	Sum	92.57	0.34	1.54
NVNT	n40 MIMO	2437	Sum	92.59	0.33	1.54
NVNT	n40 MIMO	2452	Sum	92.31	0.35	1.54

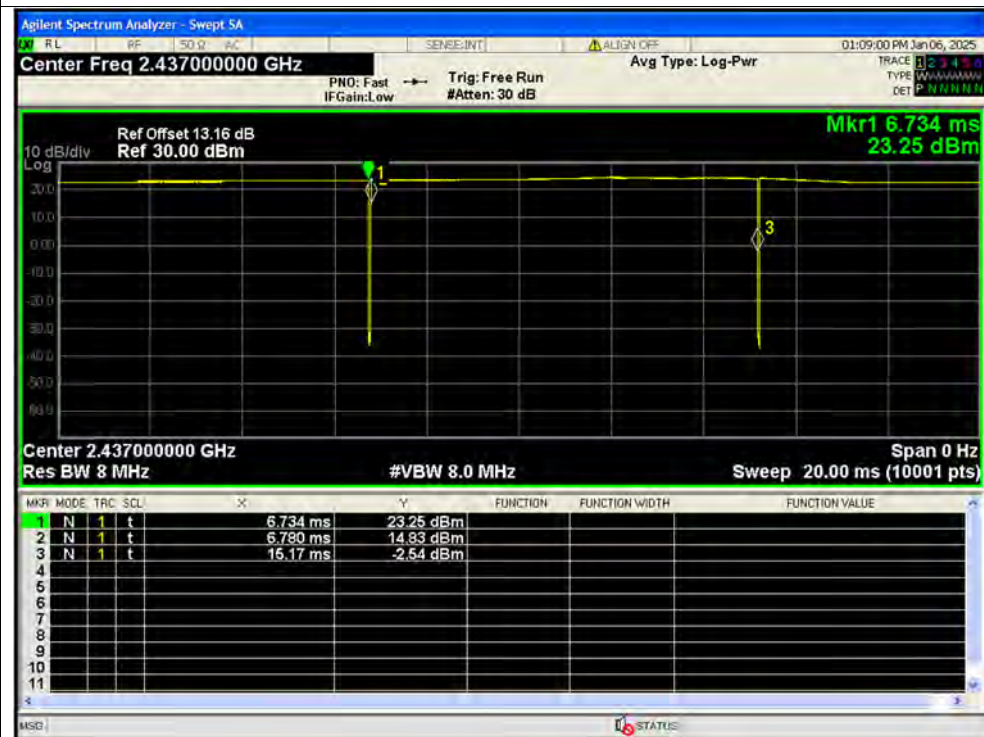


Test Graphs

Duty Cycle NVNT b 2412MHz Ant0 SISO

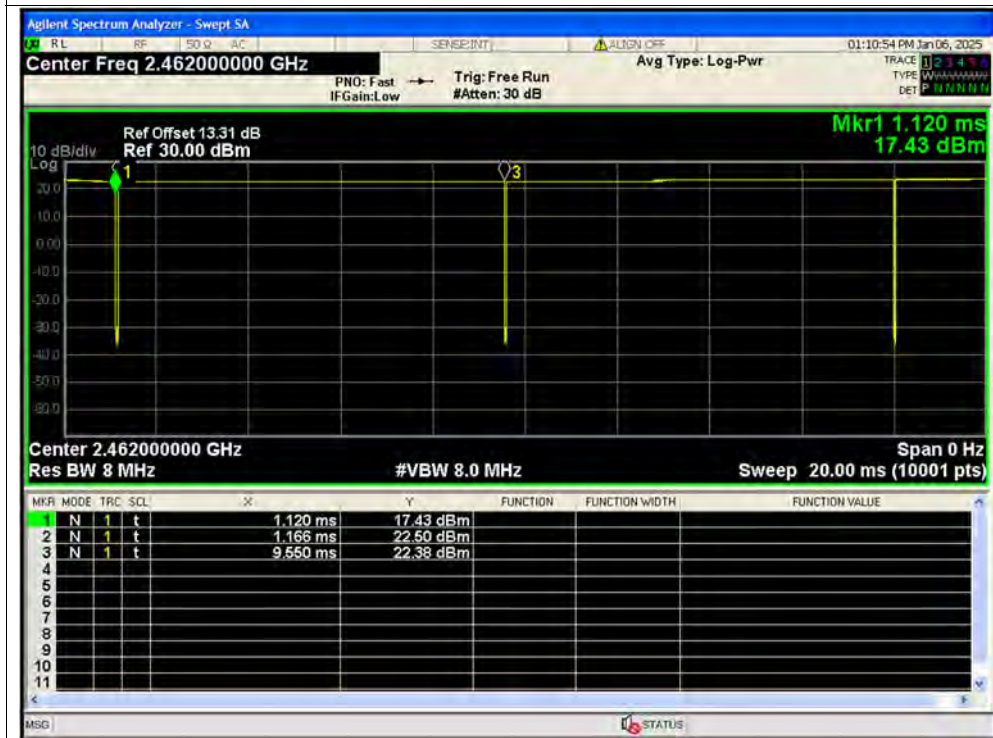


Duty Cycle NVNT b 2437MHz Ant0 SISO

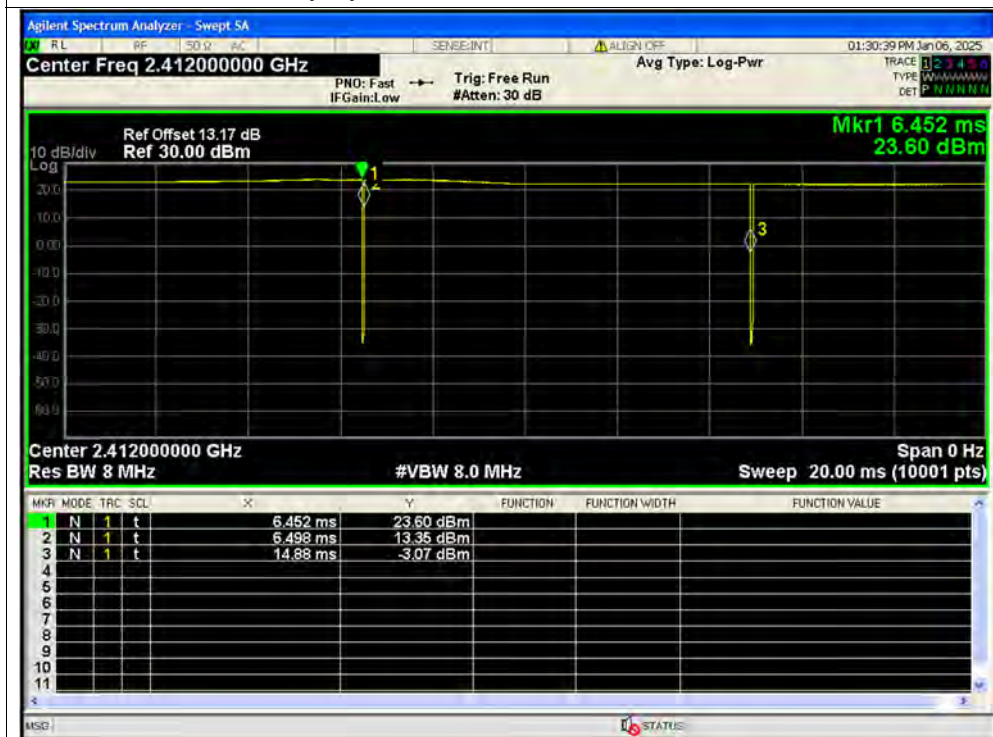




Duty Cycle NVNT b 2462MHz Ant0 SISO

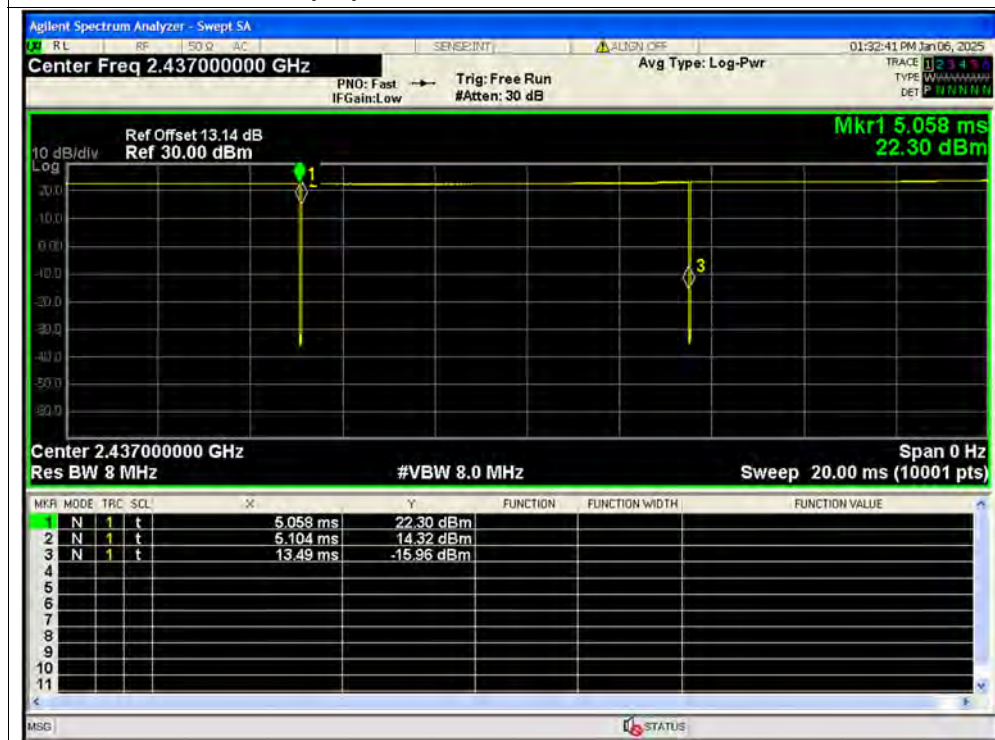


Duty Cycle NVNT b 2412MHz Ant1 SISO

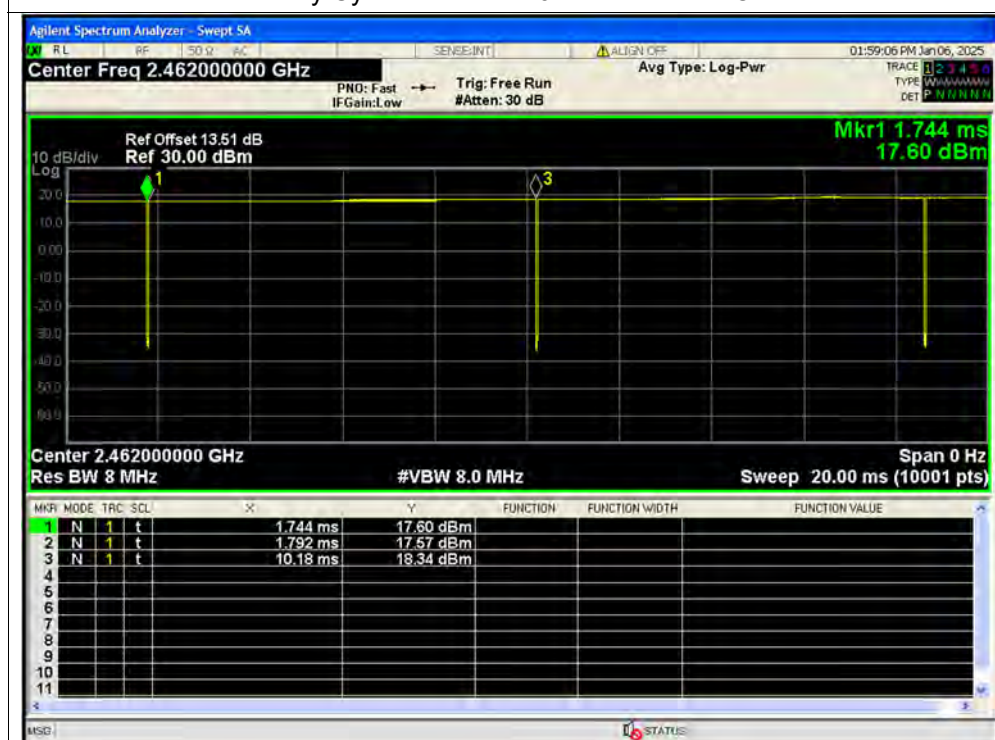




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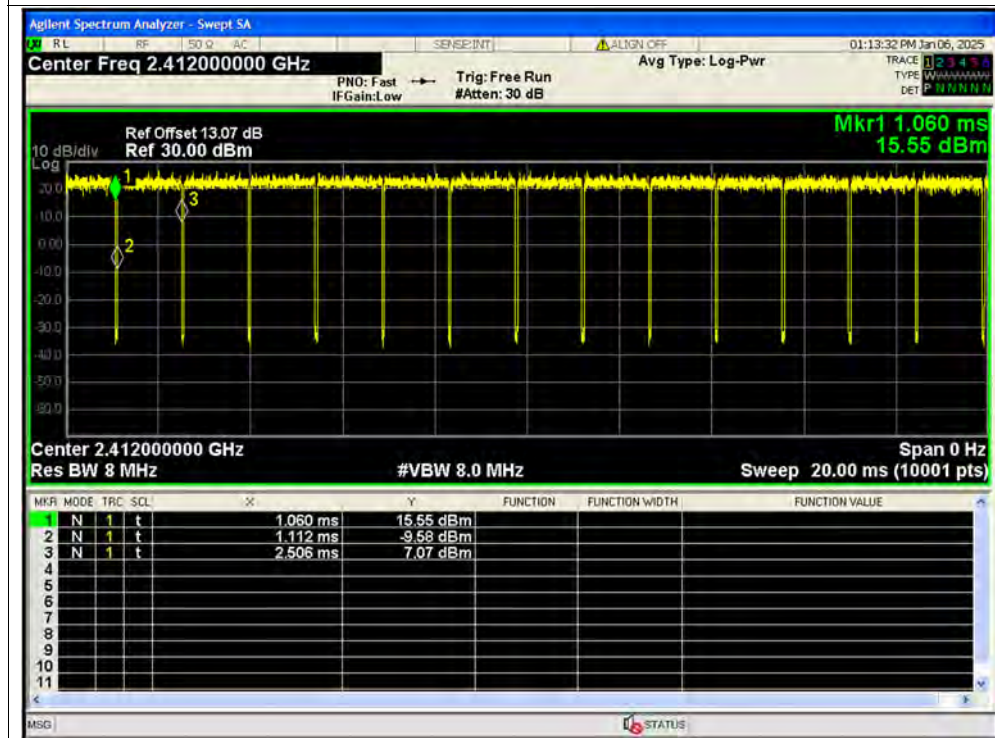


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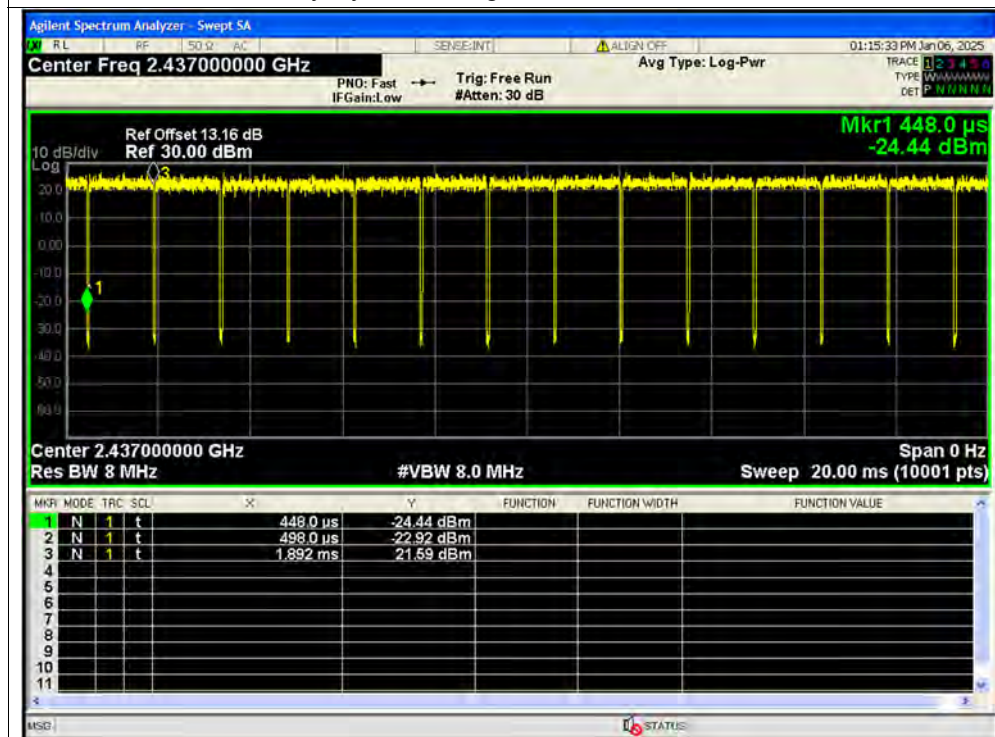




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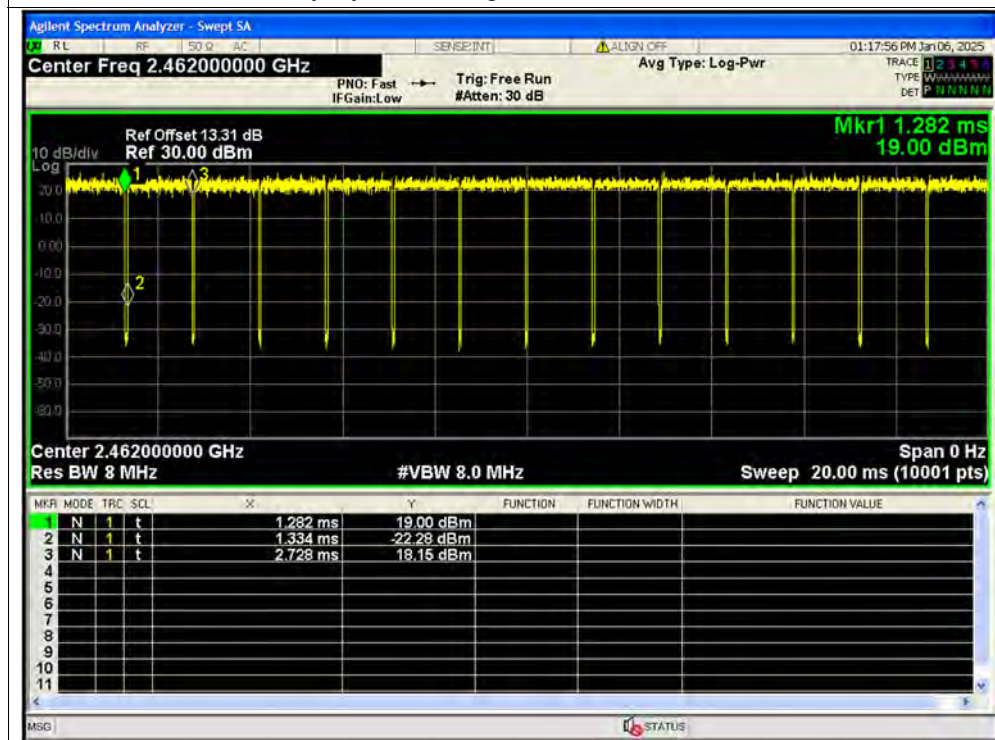


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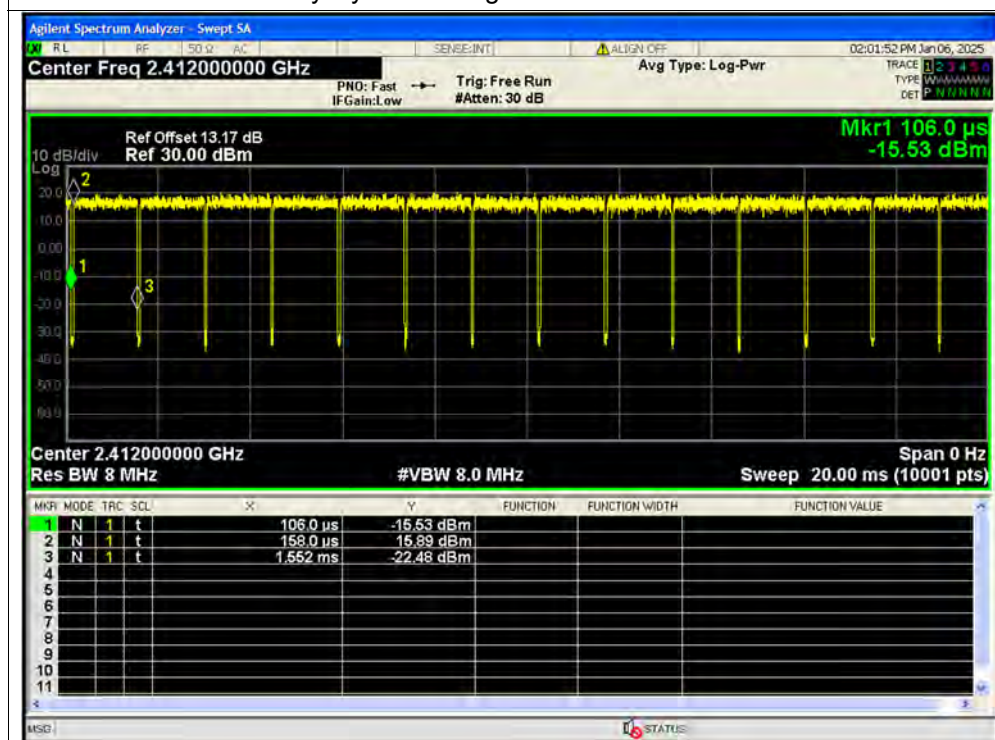




Duty Cycle NVNT g 2462MHz Ant0 SISO

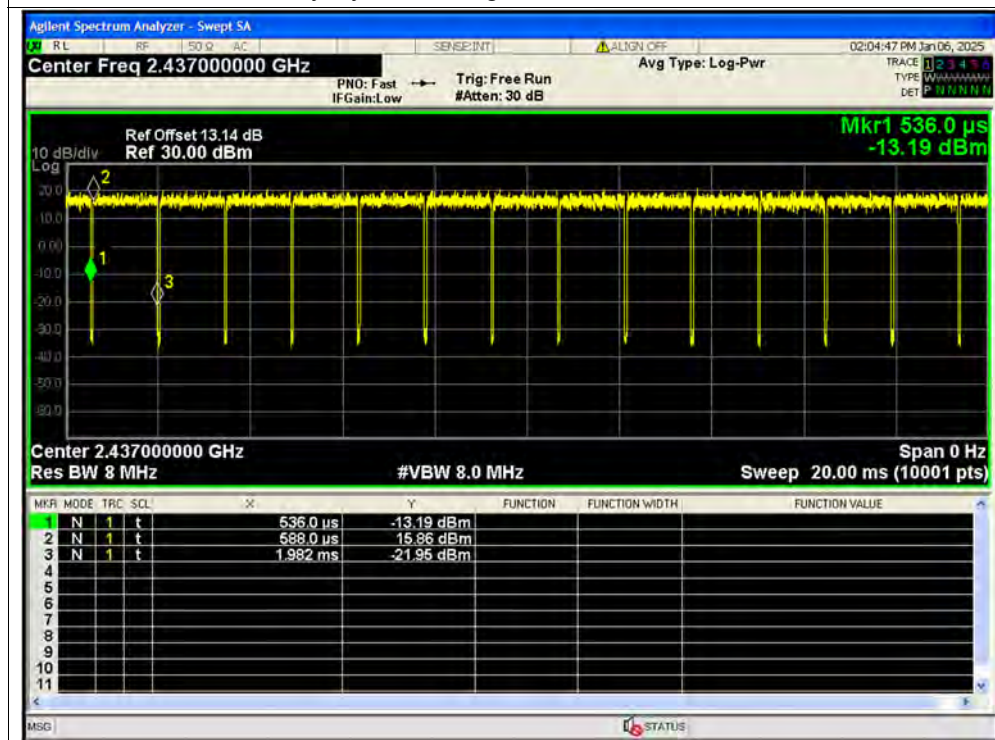


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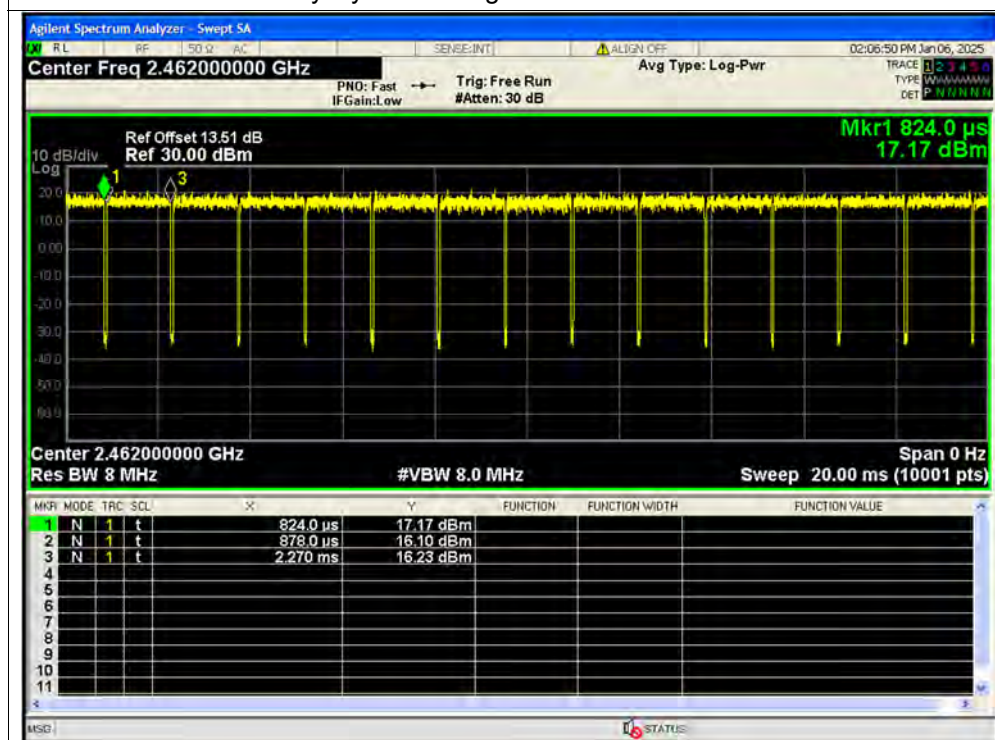




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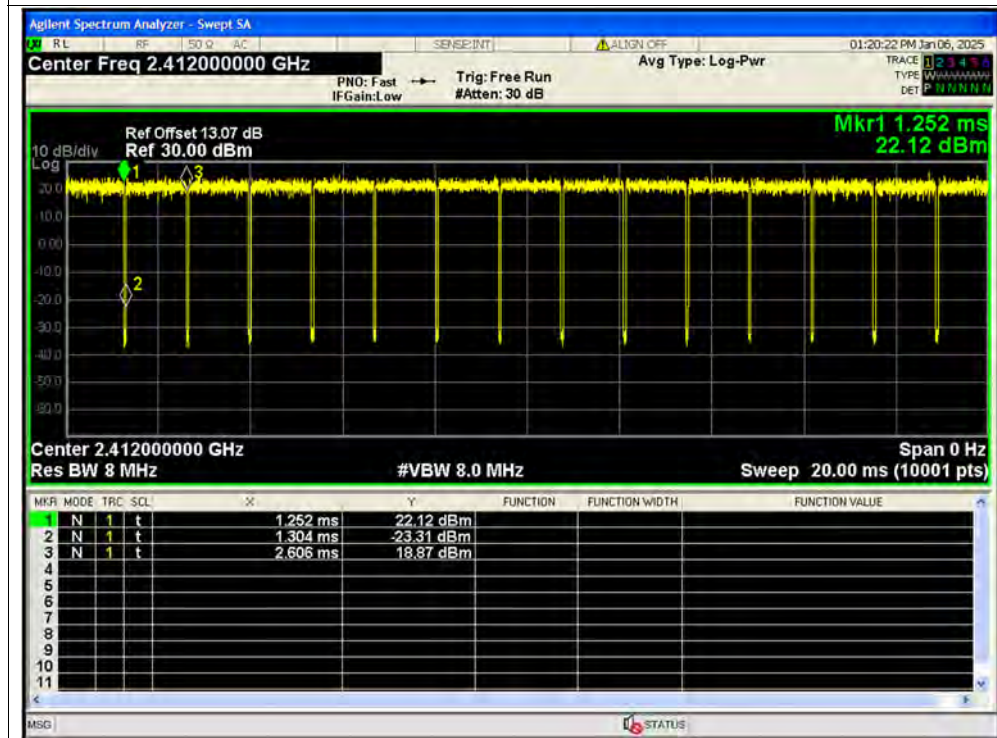


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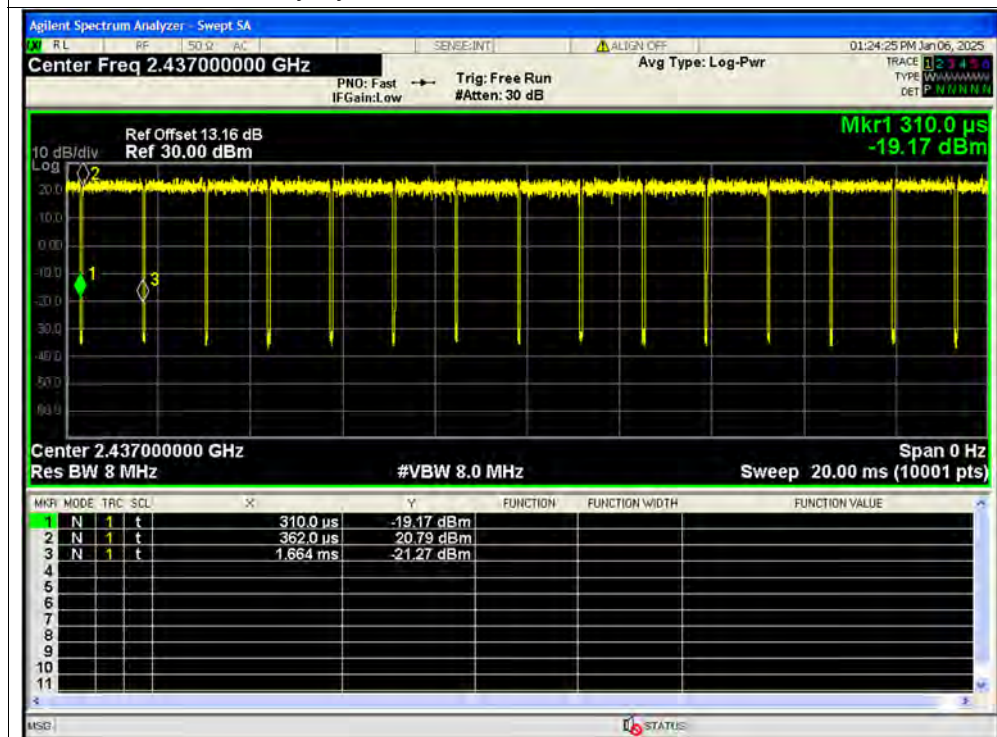




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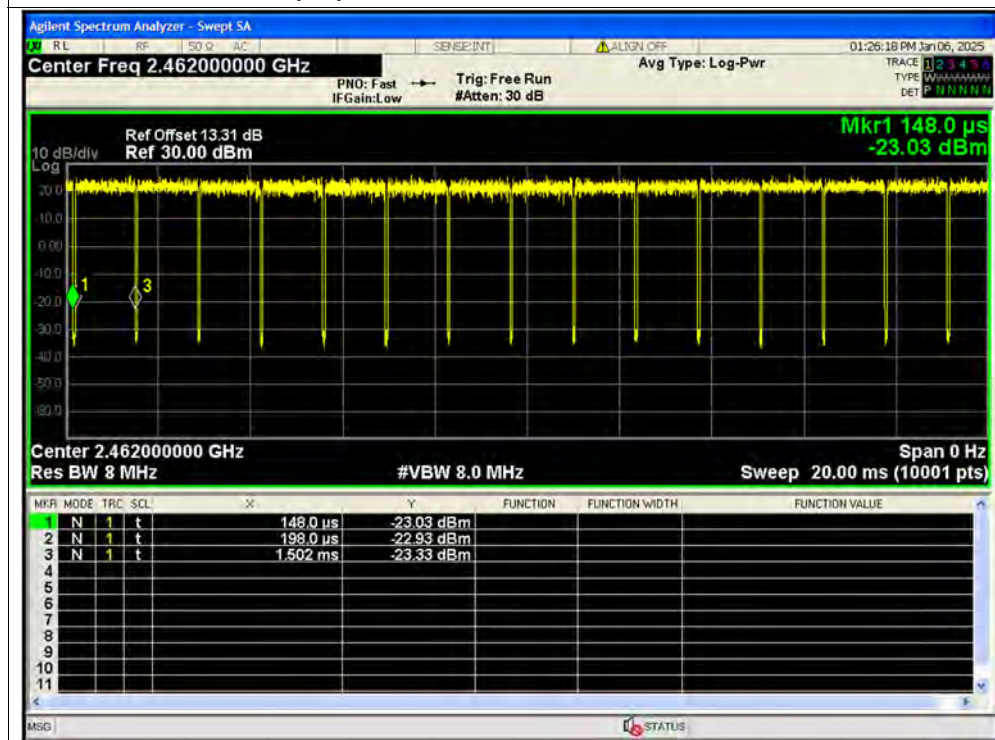


Duty Cycle NVNT n20 2437MHz Ant0 SISO

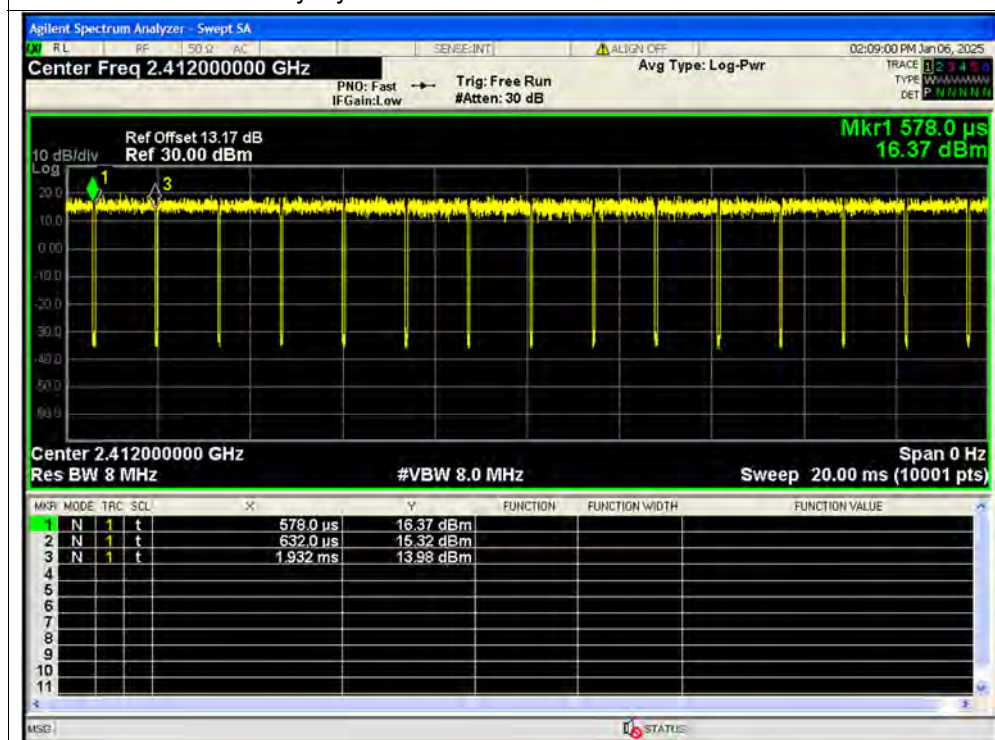




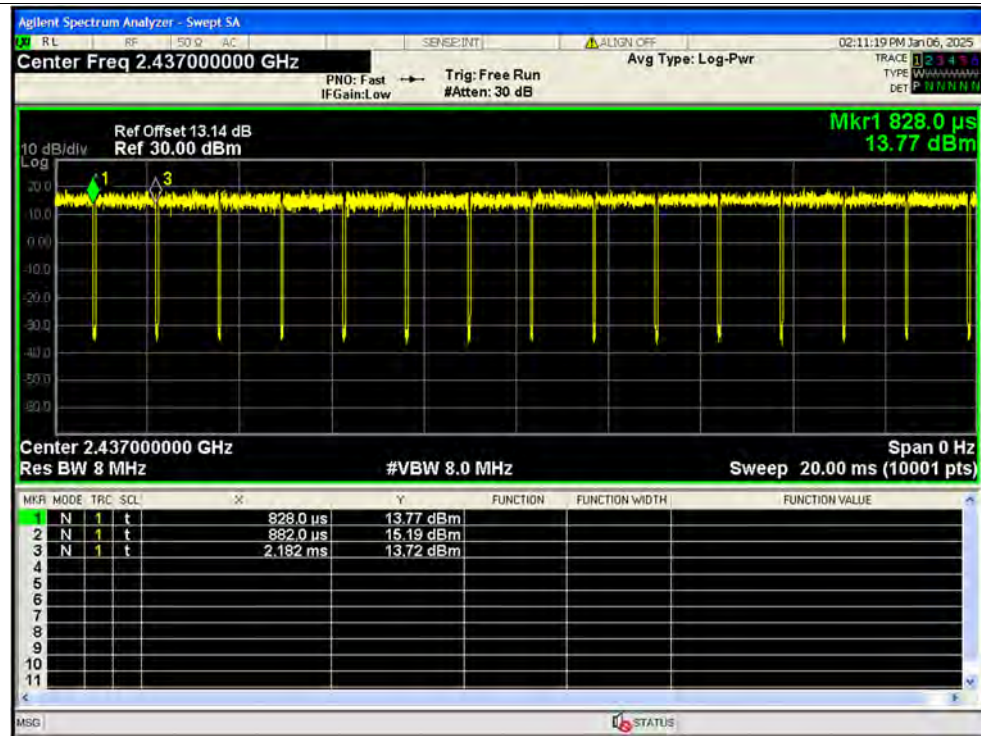
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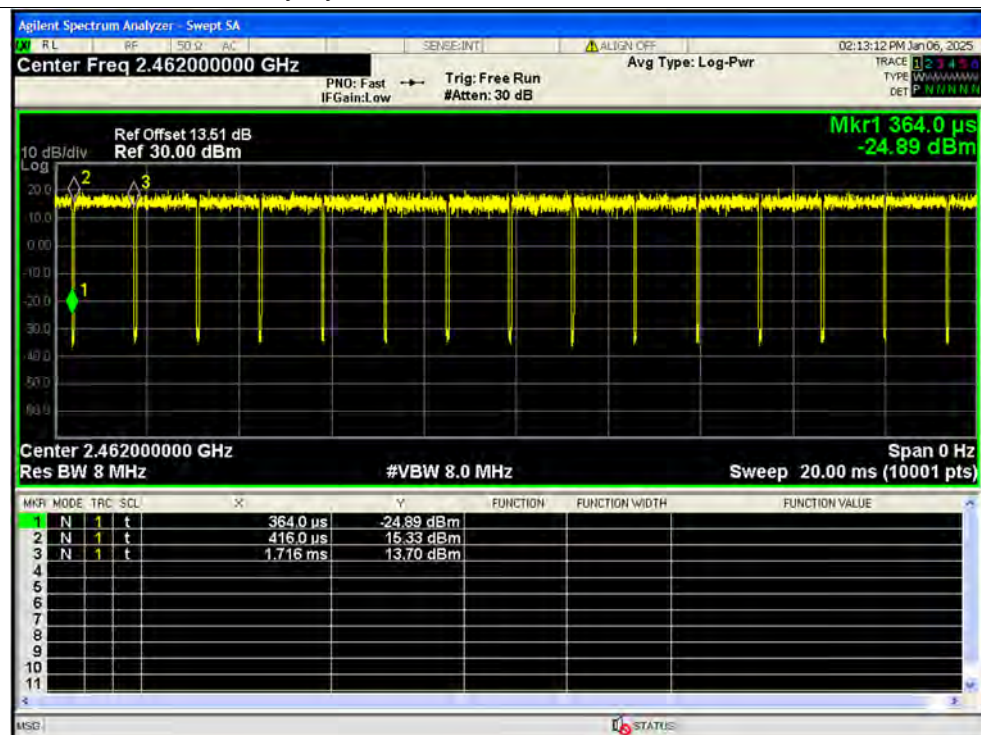
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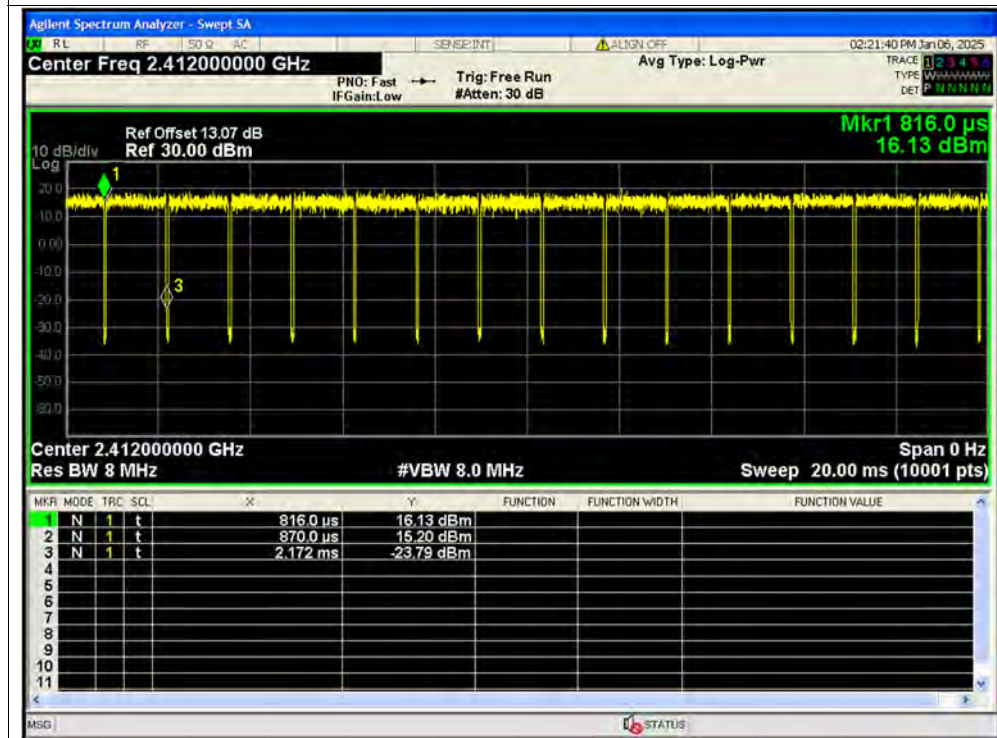
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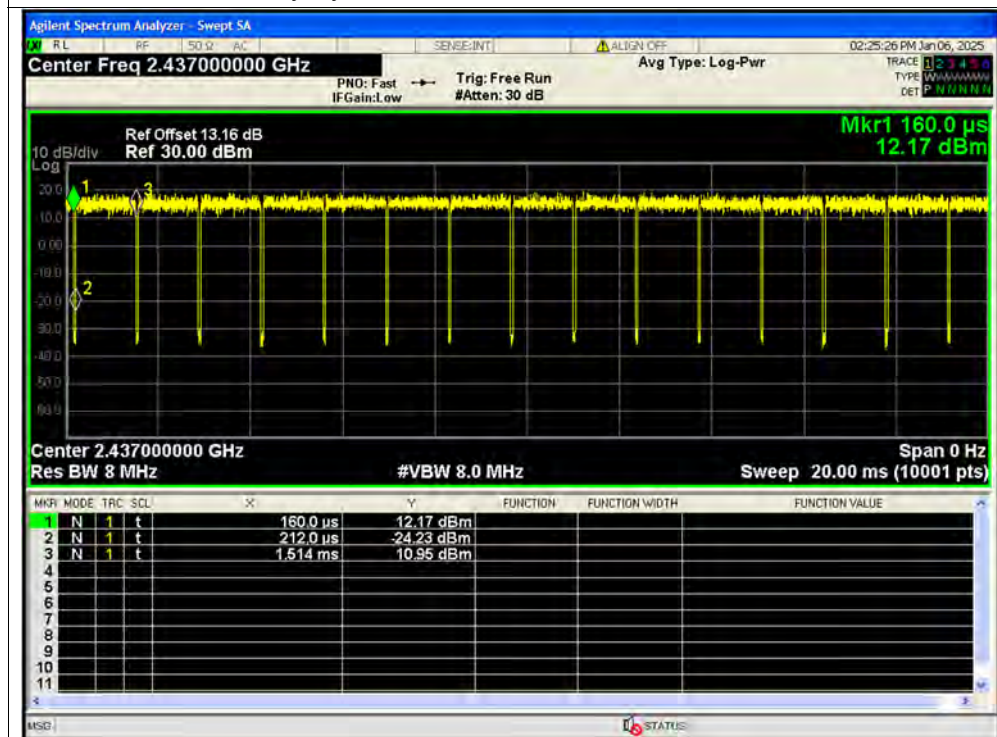
Duty Cycle NVNT n20 2462MHz Ant1 SISO



Duty Cycle NVNT n20 2412MHz Sum MIMO

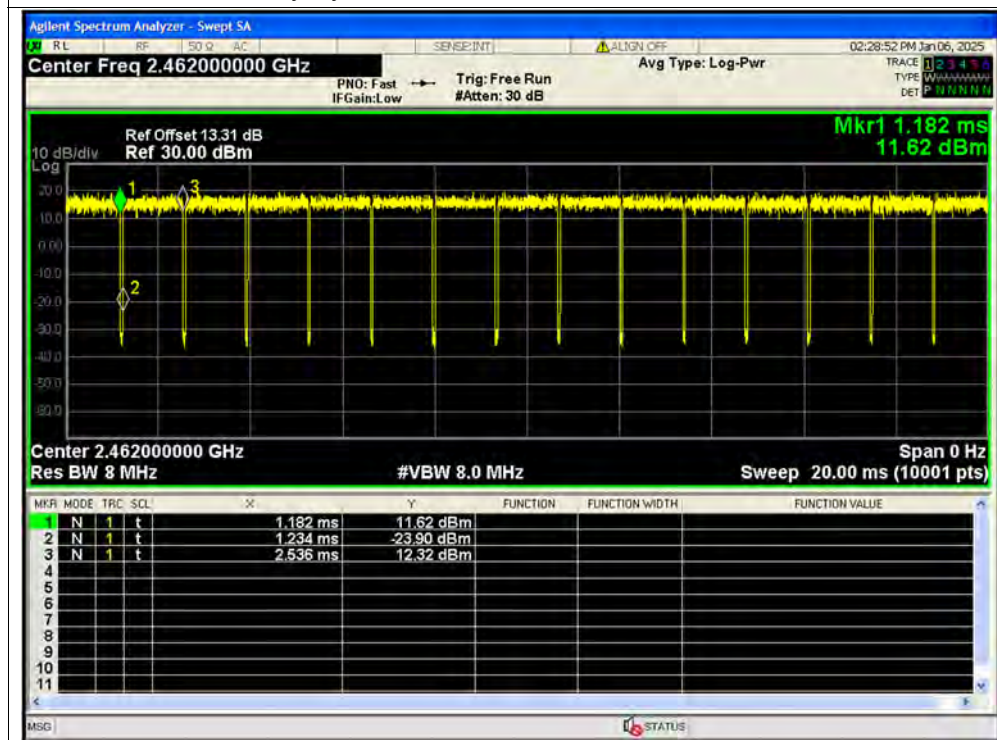


Duty Cycle NVNT n20 2437MHz Sum MIMO

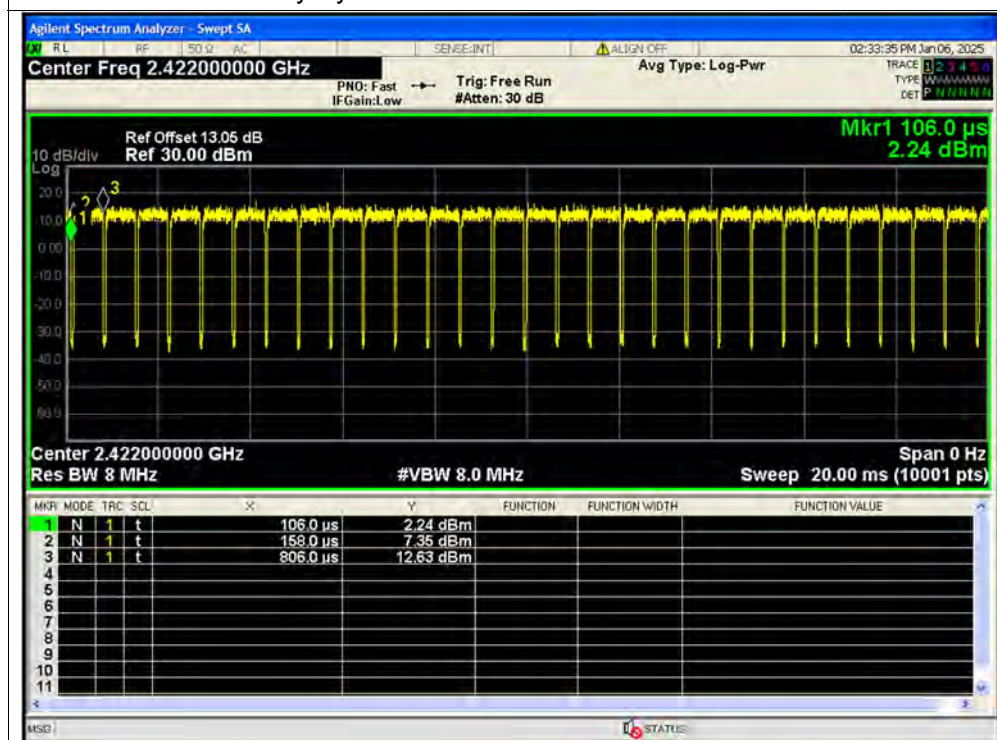




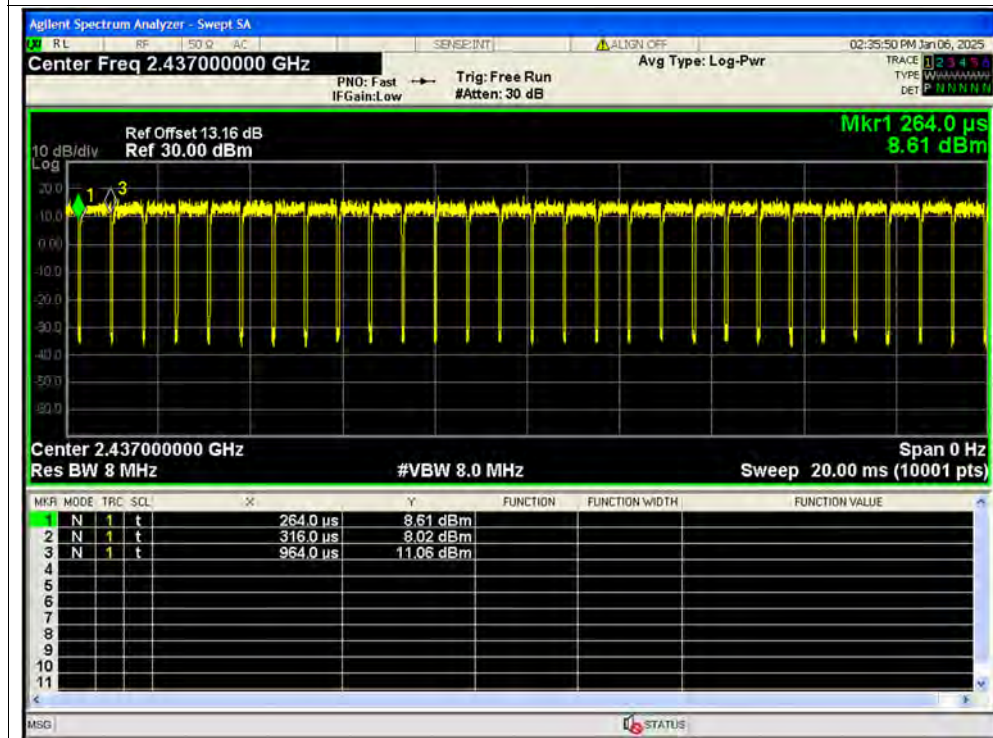
Duty Cycle NVNT n20 2462MHz Sum MIMO



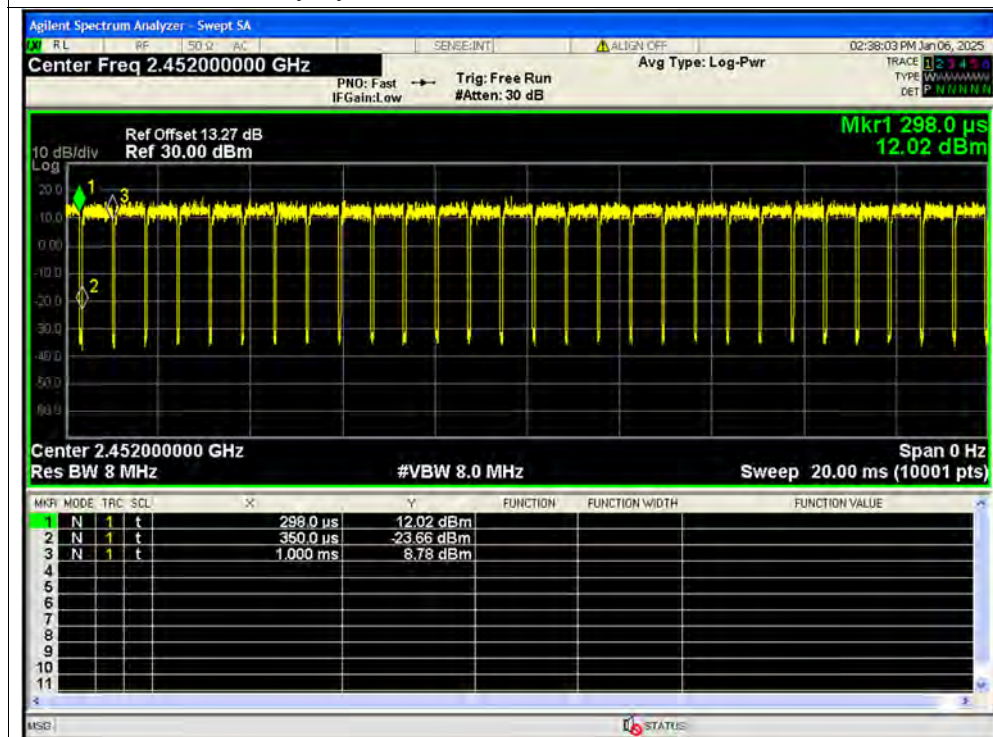
Duty Cycle NVNT n40 2422MHz Ant0 SISO



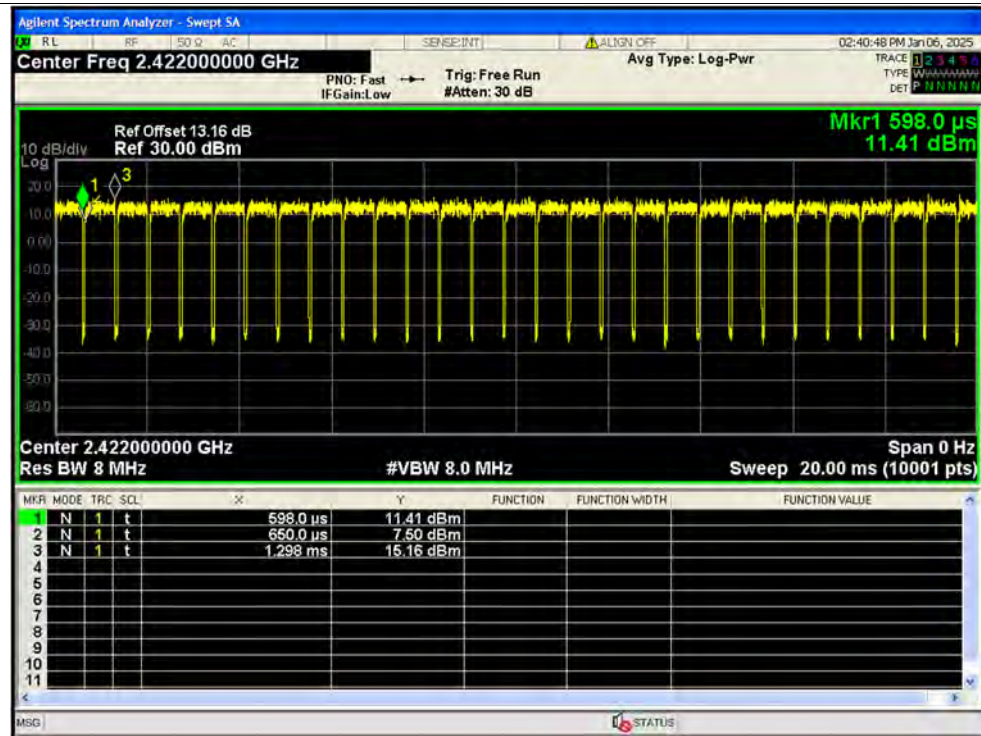
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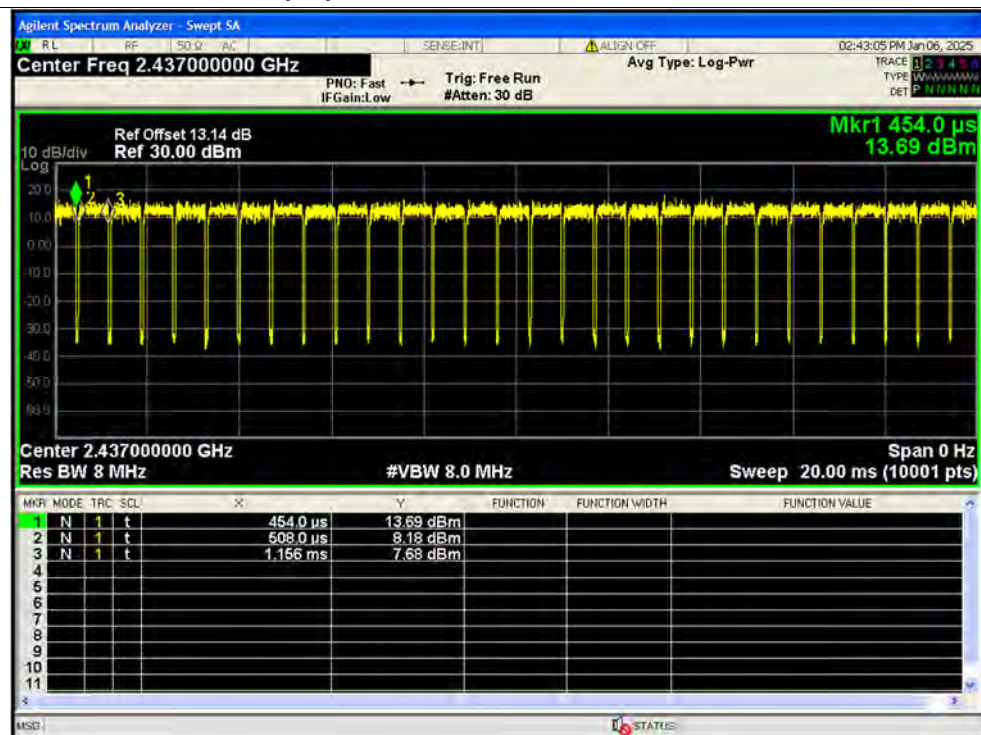
Duty Cycle NVNT n40 2452MHz Ant0 SISO



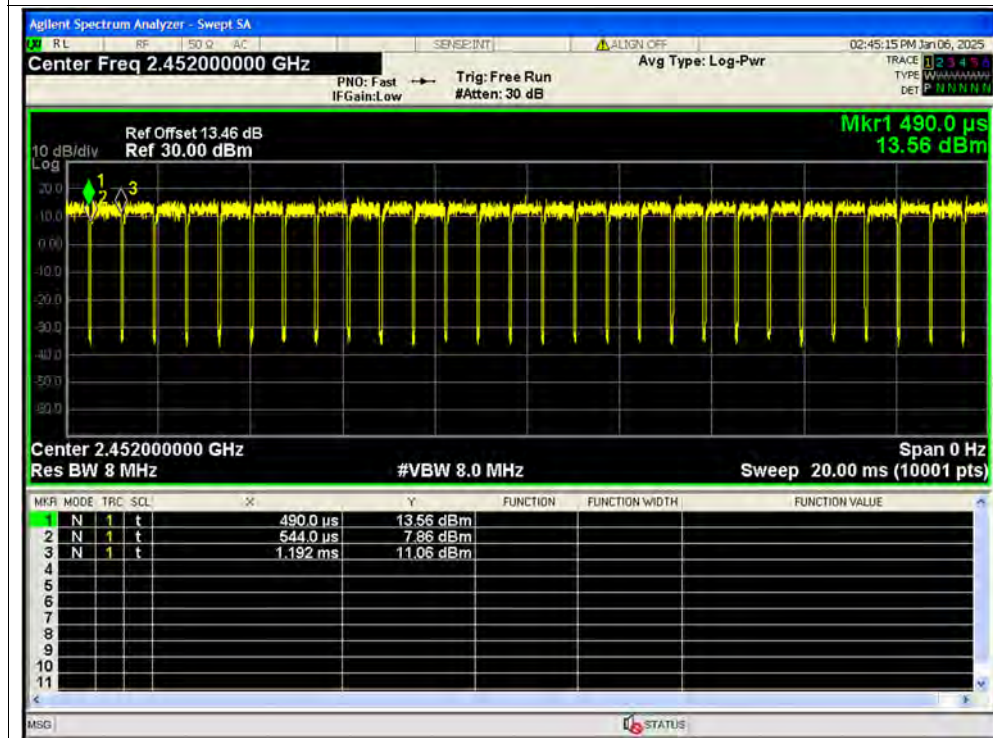
Duty Cycle NVNT n40 2422MHz Ant1 SISO



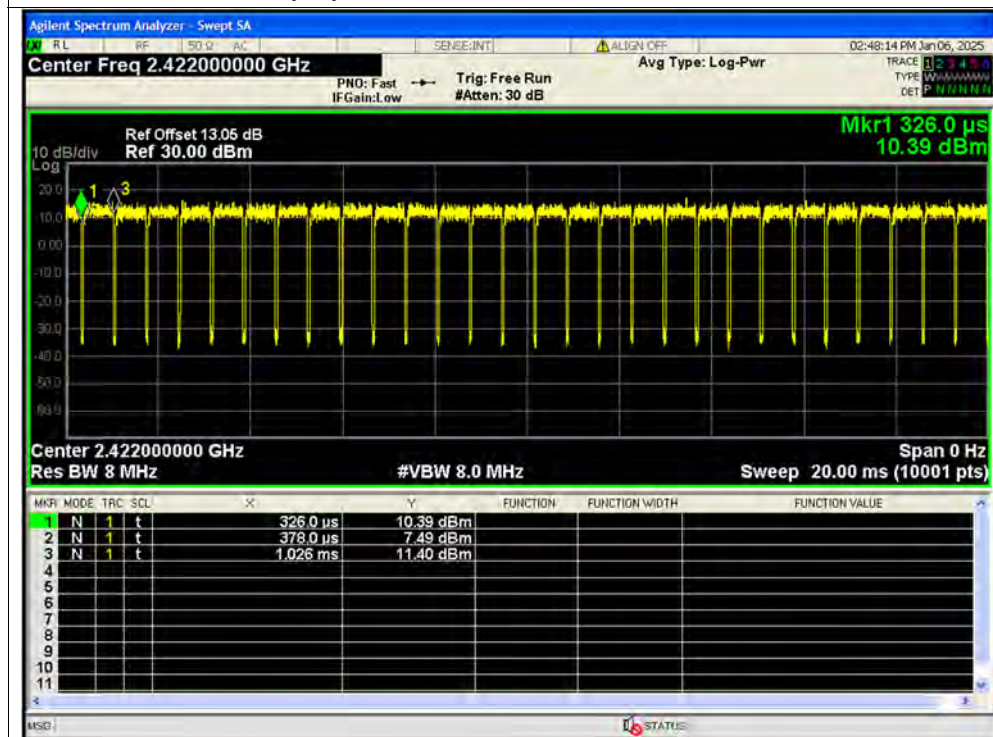
Duty Cycle NVNT n40 2437MHz Ant1 SISO



Duty Cycle NVNT n40 2452MHz Ant1 SISO

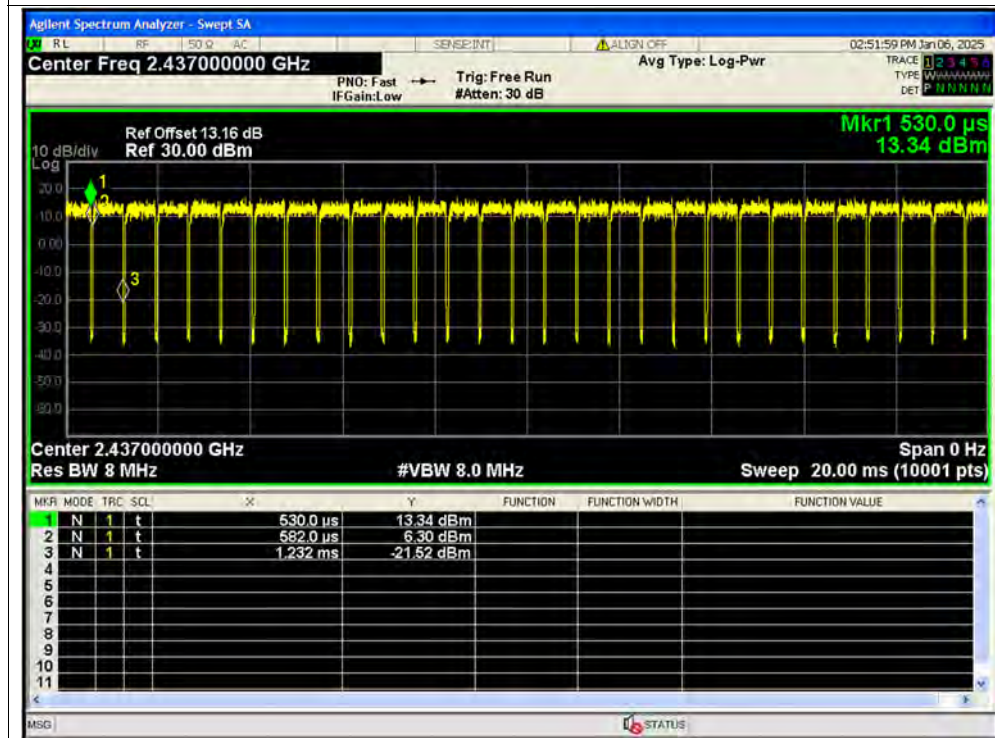


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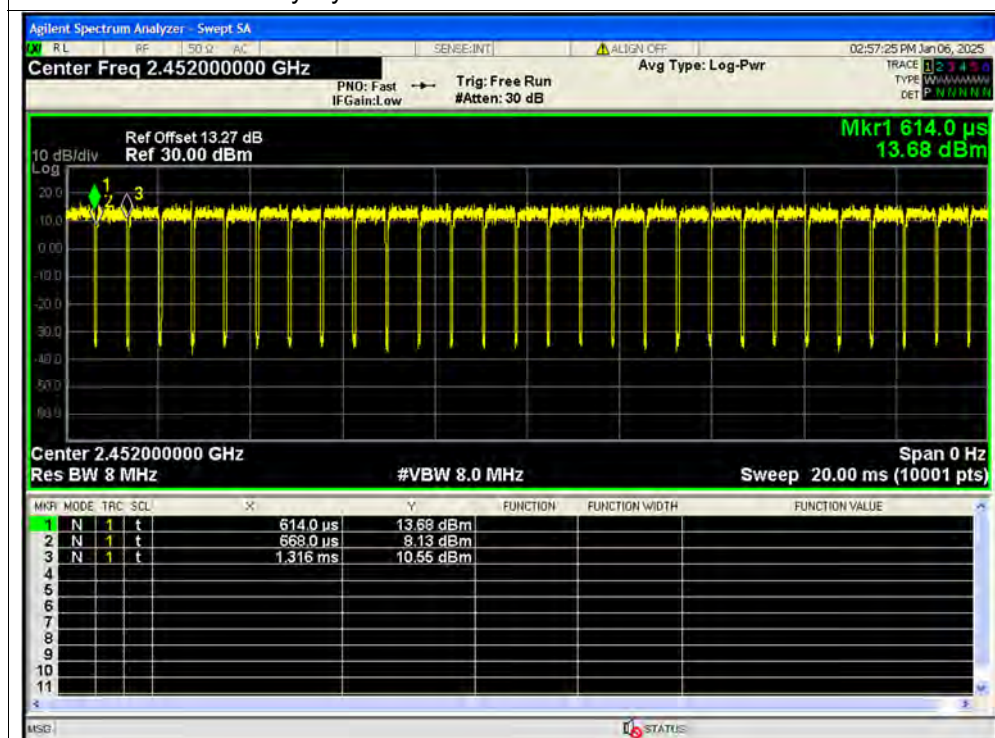




Duty Cycle NVNT n40 2437MHz Sum MIMO



Duty Cycle NVNT n40 2452MHz Sum MIMO



**A.2. Maximum Peak Conducted Output Power**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	b SISO	2412	Ant0	16.57	0	16.57	0.04539	30	Pass
NVNT	b SISO	2437	Ant0	17.04	0	17.04	0.05058	30	Pass
NVNT	b SISO	2462	Ant0	17.09	0	17.09	0.05117	30	Pass
NVNT	b SISO	2412	Ant1	16.53	0	16.53	0.04498	30	Pass
NVNT	b SISO	2437	Ant1	16.96	0	16.96	0.04966	30	Pass
NVNT	b SISO	2462	Ant1	16.94	0	16.94	0.04943	30	Pass
NVNT	g SISO	2412	Ant0	20.96	0	20.96	0.12474	30	Pass
NVNT	g SISO	2437	Ant0	21.11	0	21.11	0.12912	30	Pass
NVNT	g SISO	2462	Ant0	21.22	0	21.22	0.13243	30	Pass
NVNT	g SISO	2412	Ant1	21.01	0	21.01	0.12618	30	Pass
NVNT	g SISO	2437	Ant1	20.9	0	20.9	0.12303	30	Pass
NVNT	g SISO	2462	Ant1	21.11	0	21.11	0.12912	30	Pass
NVNT	n20 SISO	2412	Ant0	19.66	0	19.66	0.09247	30	Pass
NVNT	n20 SISO	2437	Ant0	19.72	0	19.72	0.09376	30	Pass
NVNT	n20 SISO	2462	Ant0	19.9	0	19.9	0.09772	30	Pass
NVNT	n20 SISO	2412	Ant1	19.53	0	19.53	0.08974	30	Pass
NVNT	n20	2437	Ant1	19.35	0	19.35	0.0861	30	Pass



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	SISO								
NVNT	n20 SISO	2462	Ant1	20.03	0	20.03	0.10069	30	Pass
NVNT	n20 MIMO	2412	Ant0	19.86	0	19.86	0.09683	30	Pass
NVNT	n20 MIMO	2412	Ant1	20.35	0	20.35	0.10839	30	Pass
NVNT	n20 MIMO	2412	Sum	NaN	NaN	23.12	0.20522	28.3	Pass
NVNT	n20 MIMO	2437	Ant0	19.94	0	19.94	0.09863	30	Pass
NVNT	n20 MIMO	2437	Ant1	20.17	0	20.17	0.10399	30	Pass
NVNT	n20 MIMO	2437	Sum	NaN	NaN	23.07	0.20262	28.3	Pass
NVNT	n20 MIMO	2462	Ant0	19.99	0	19.99	0.09977	30	Pass
NVNT	n20 MIMO	2462	Ant1	20.49	0	20.49	0.11194	30	Pass
NVNT	n20 MIMO	2462	Sum	NaN	NaN	23.26	0.21171	28.3	Pass
NVNT	n40 SISO	2422	Ant0	20.03	0	20.03	0.10069	30	Pass
NVNT	n40 SISO	2437	Ant0	20.25	0	20.25	0.10593	30	Pass
NVNT	n40 SISO	2452	Ant0	20.35	0	20.35	0.10839	30	Pass
NVNT	n40 SISO	2422	Ant1	20.52	0	20.52	0.11272	30	Pass
NVNT	n40 SISO	2437	Ant1	20.53	0	20.53	0.11298	30	Pass
NVNT	n40 SISO	2452	Ant1	20.77	0	20.77	0.1194	30	Pass
NVNT	n40 MIMO	2422	Ant0	19.95	0	19.95	0.09886	30	Pass
NVNT	n40 MIMO	2422	Ant1	20.5	0	20.5	0.1122	30	Pass
NVNT	n40 MIMO	2422	Sum	NaN	NaN	23.24	0.21106	28.3	Pass



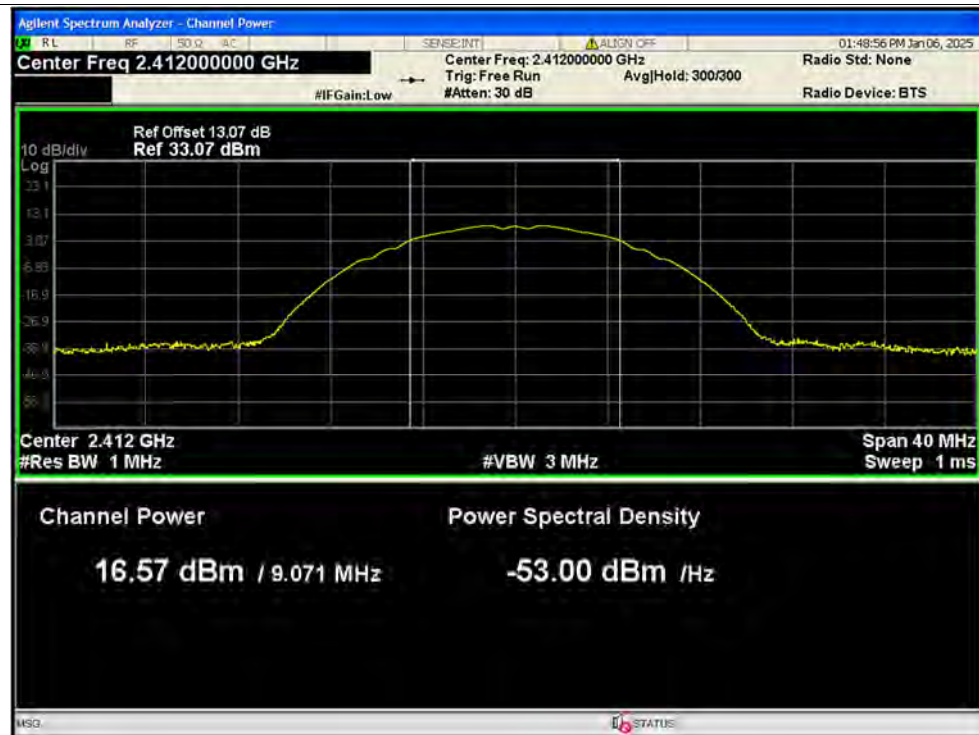
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NVNT	n40 MIMO	2437	Ant0	20.33	0	20.33	0.10789	30	Pass
NVNT	n40 MIMO	2437	Ant1	20.47	0	20.47	0.11143	30	Pass
NVNT	n40 MIMO	2437	Sum	NaN	NaN	23.41	0.21932	28.3	Pass
NVNT	n40 MIMO	2452	Ant0	20.35	0	20.35	0.10839	30	Pass
NVNT	n40 MIMO	2452	Ant1	20.77	0	20.77	0.1194	30	Pass
NVNT	n40 MIMO	2452	Sum	NaN	NaN	23.58	0.22779	28.3	Pass

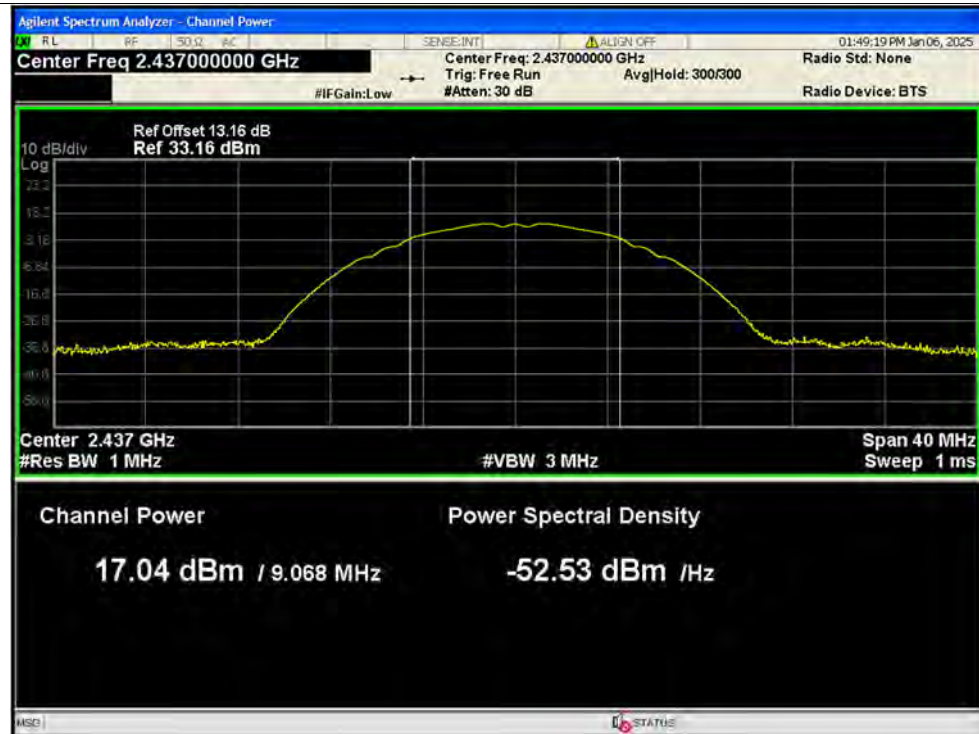


Test Graphs

Peak Power NVNT b 2412MHz Ant0 SISO

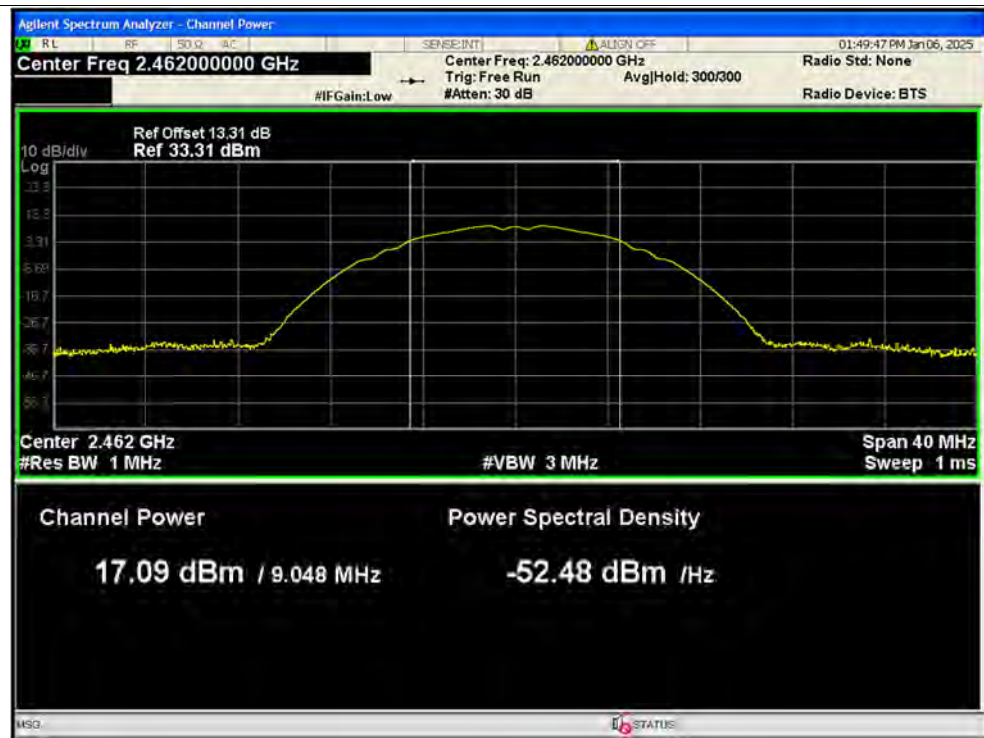


Peak Power NVNT b 2437MHz Ant0 SISO

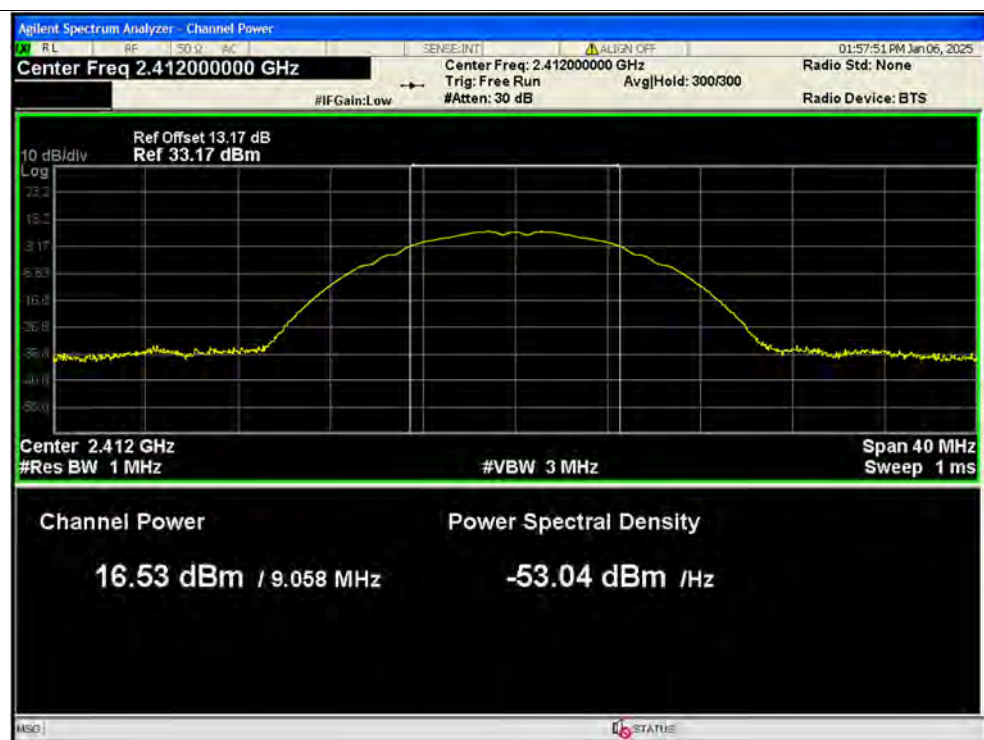




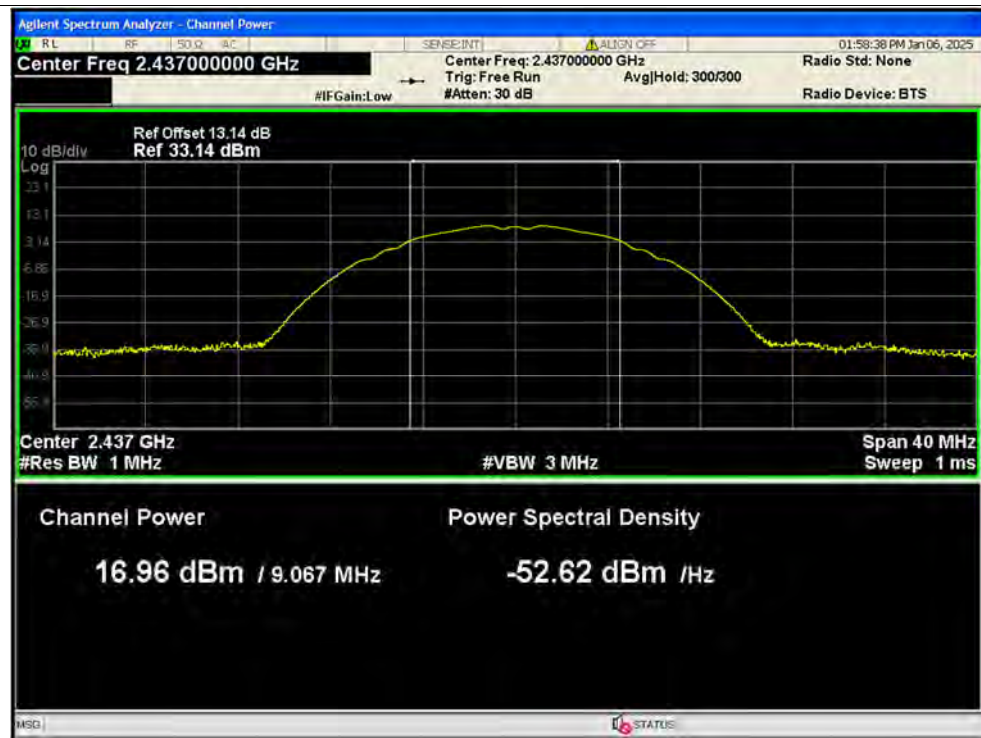
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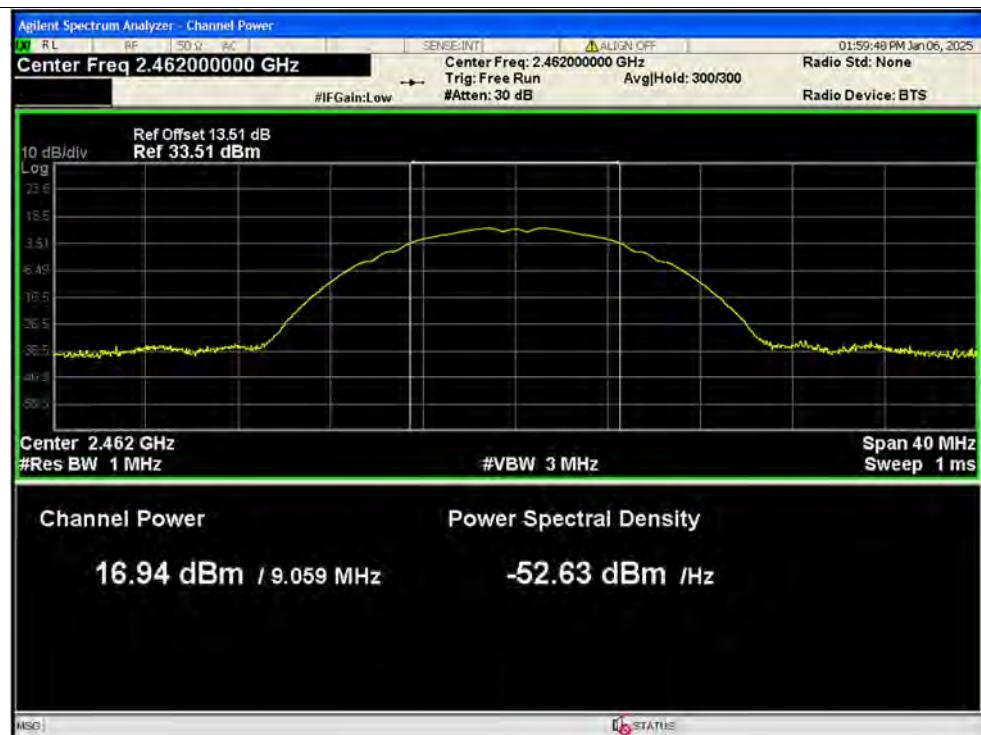
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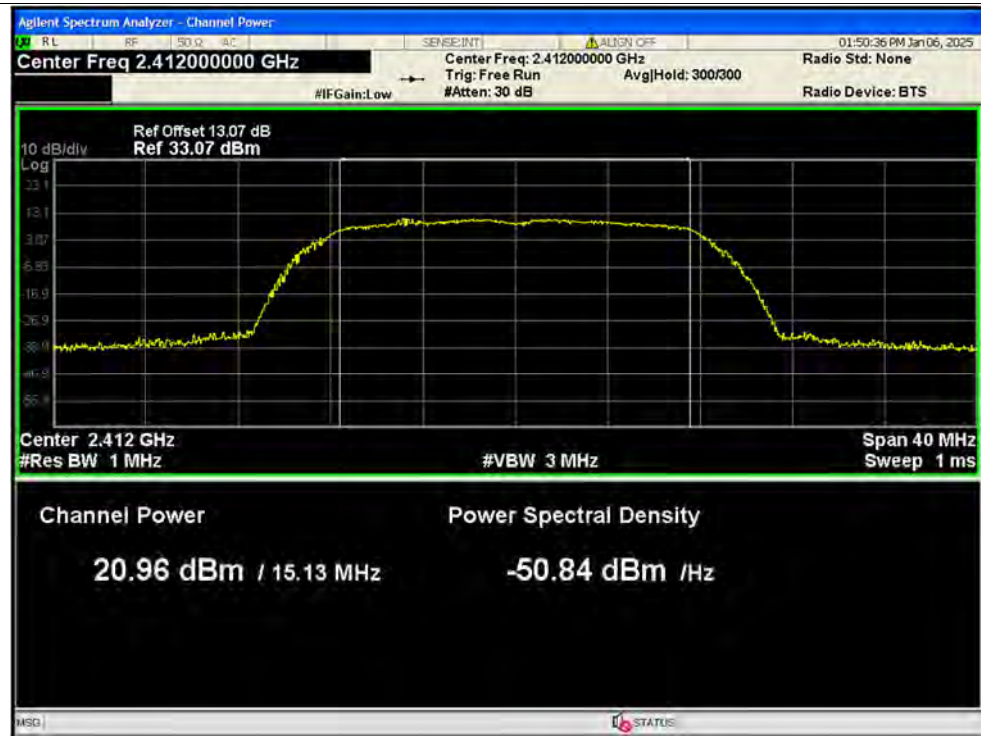
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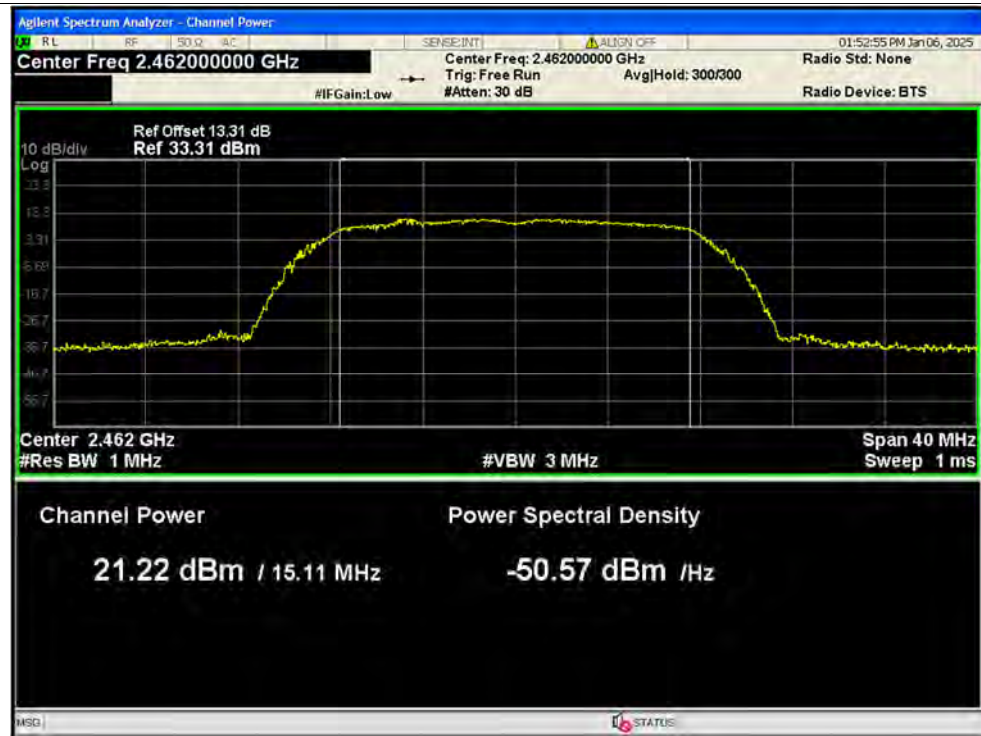
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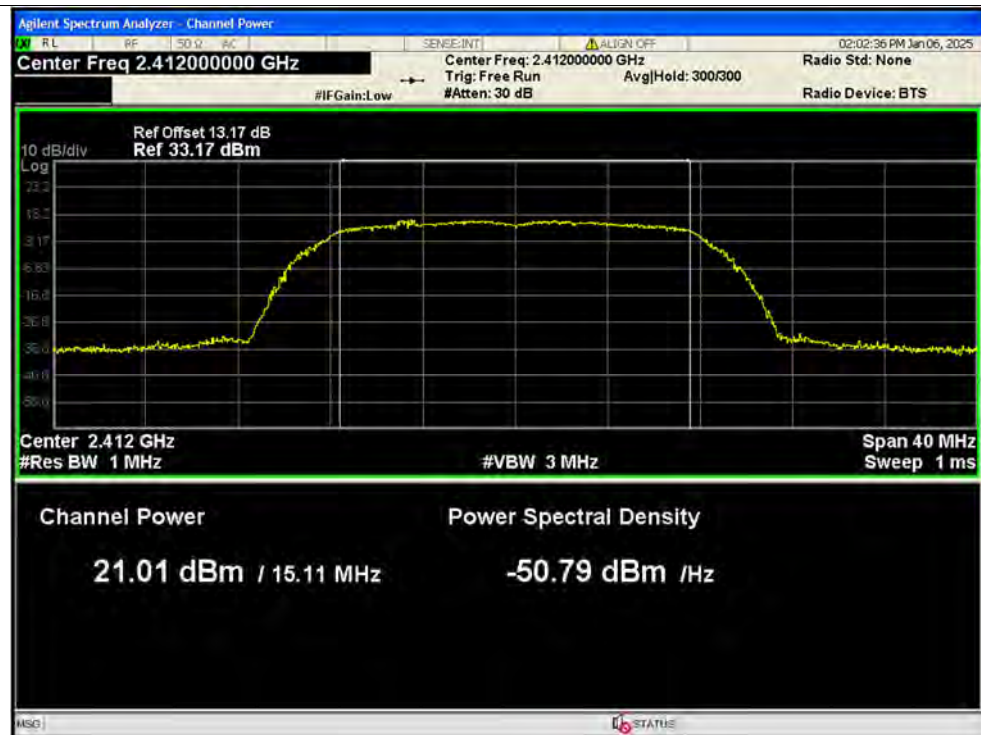
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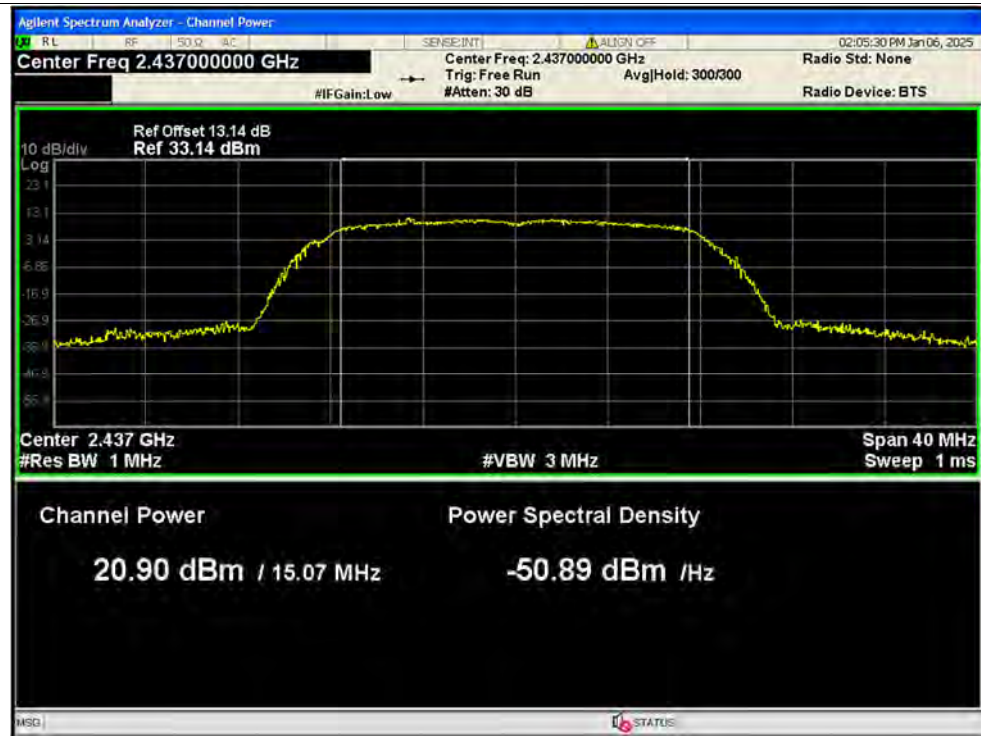
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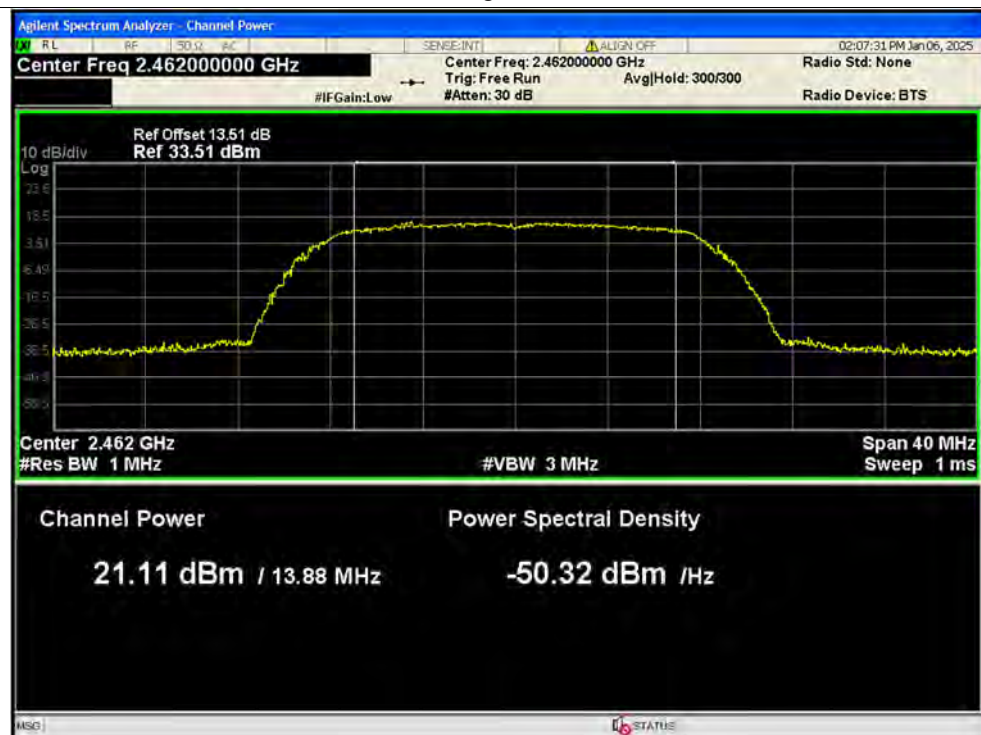
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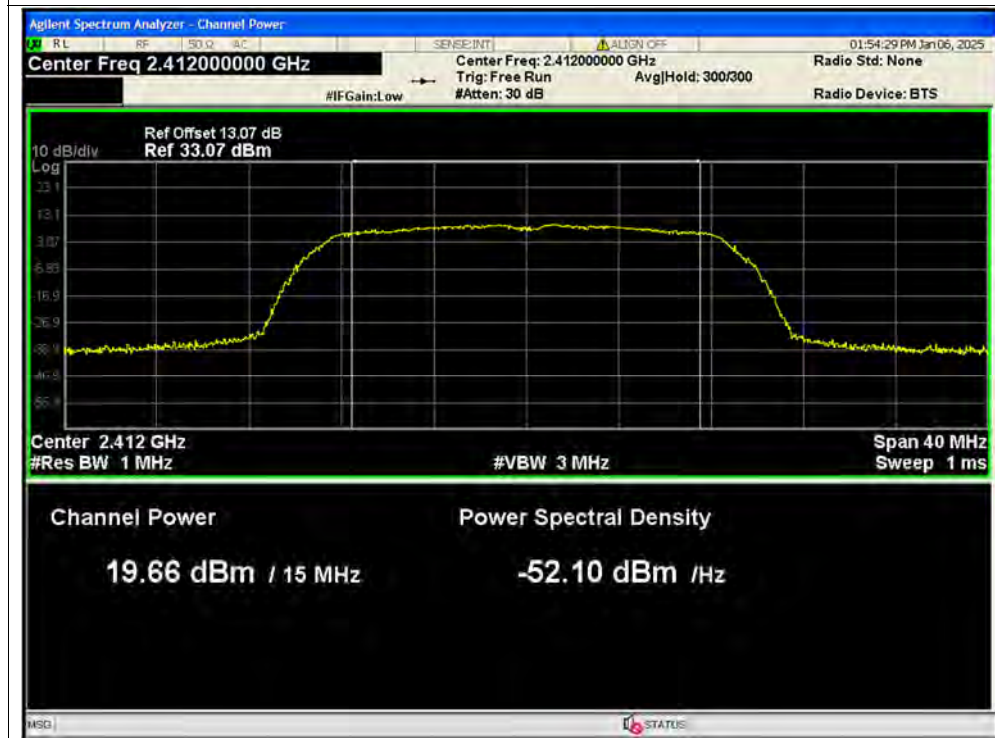


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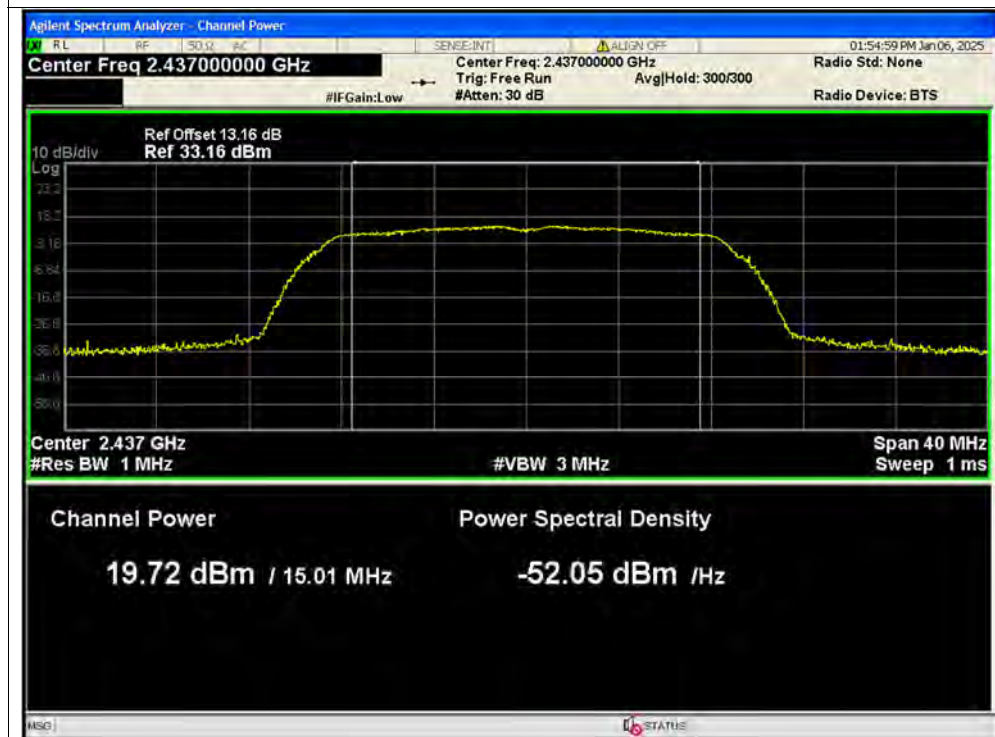




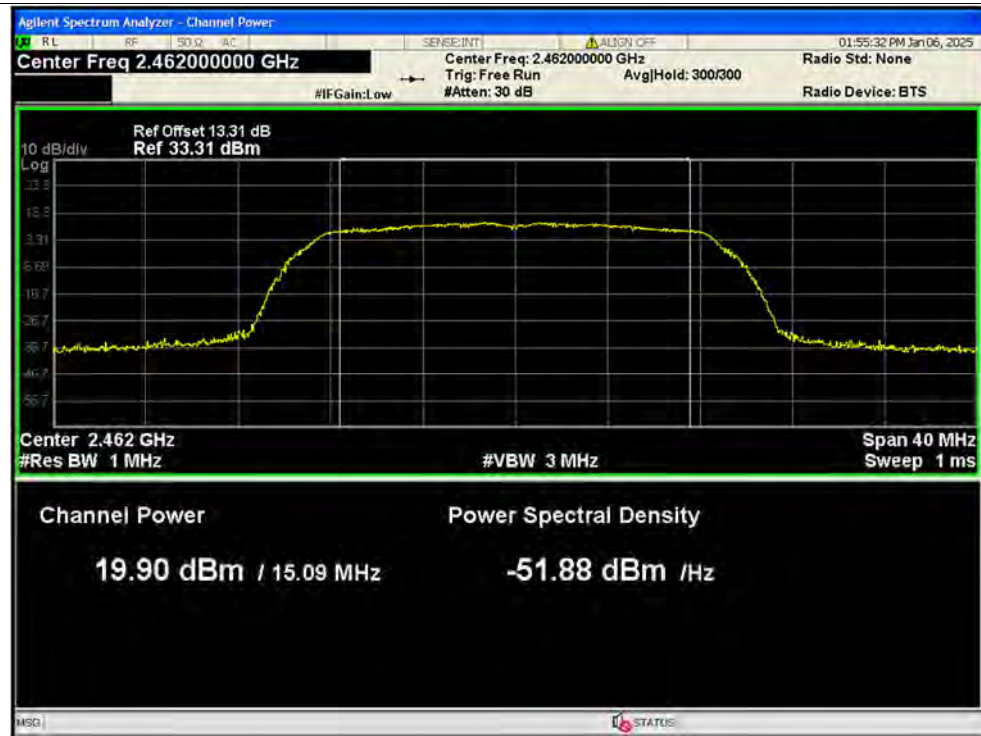
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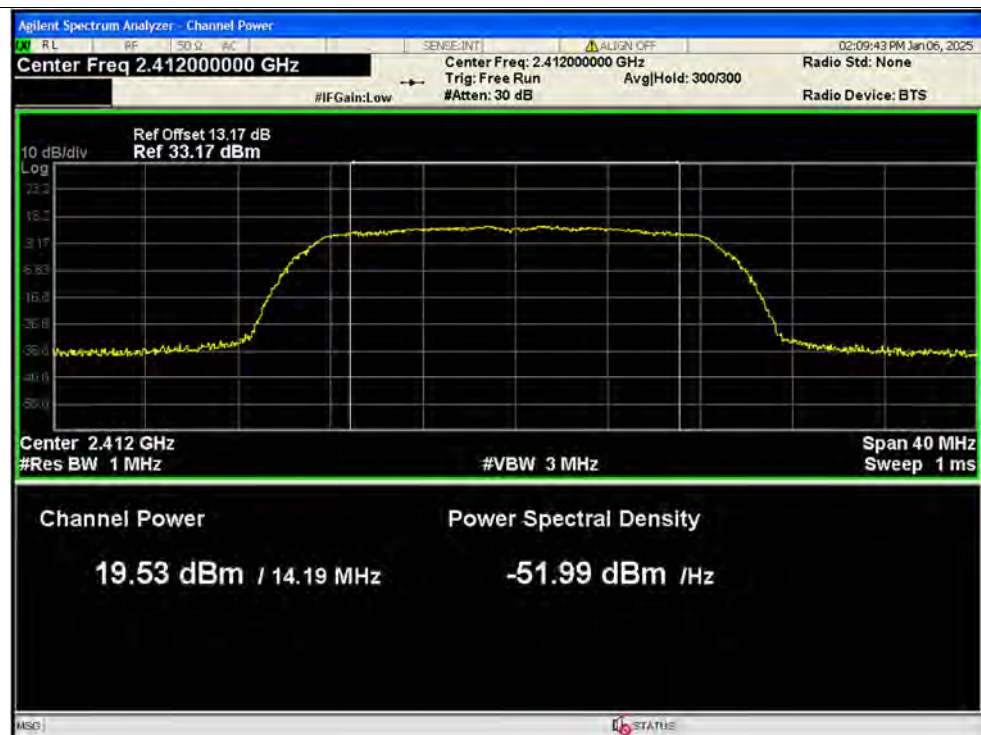
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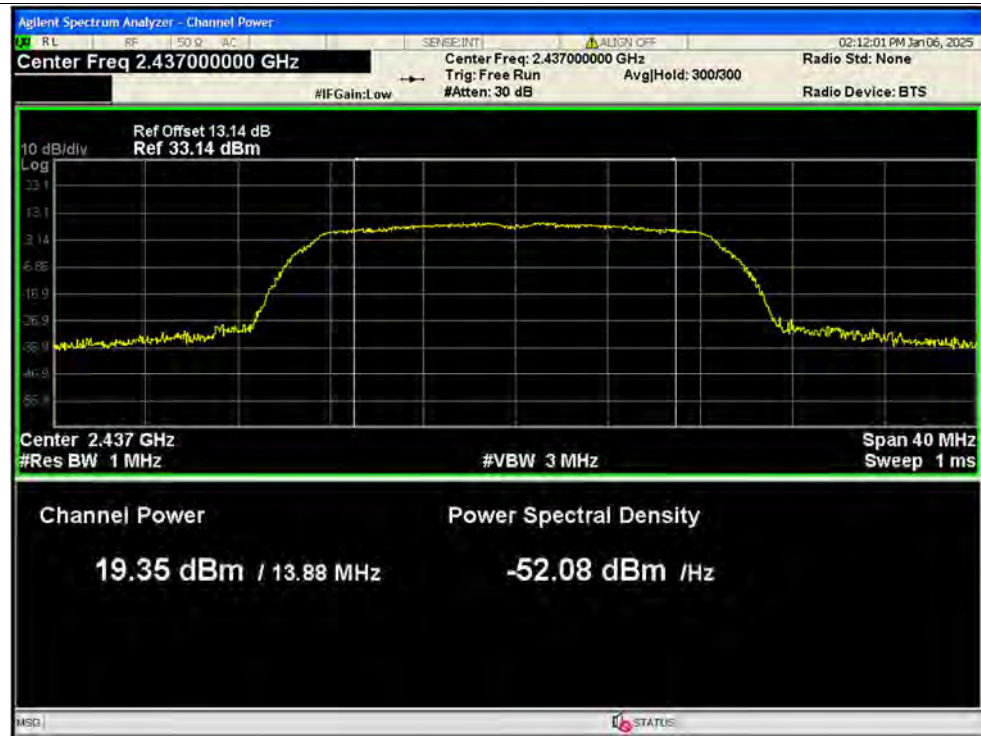
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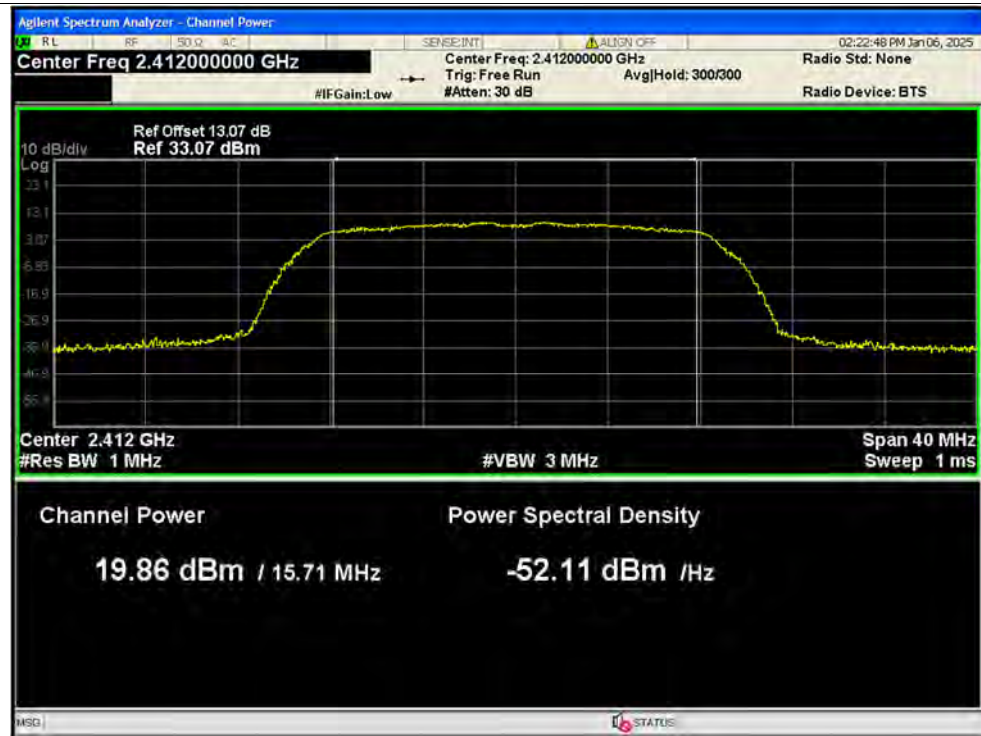
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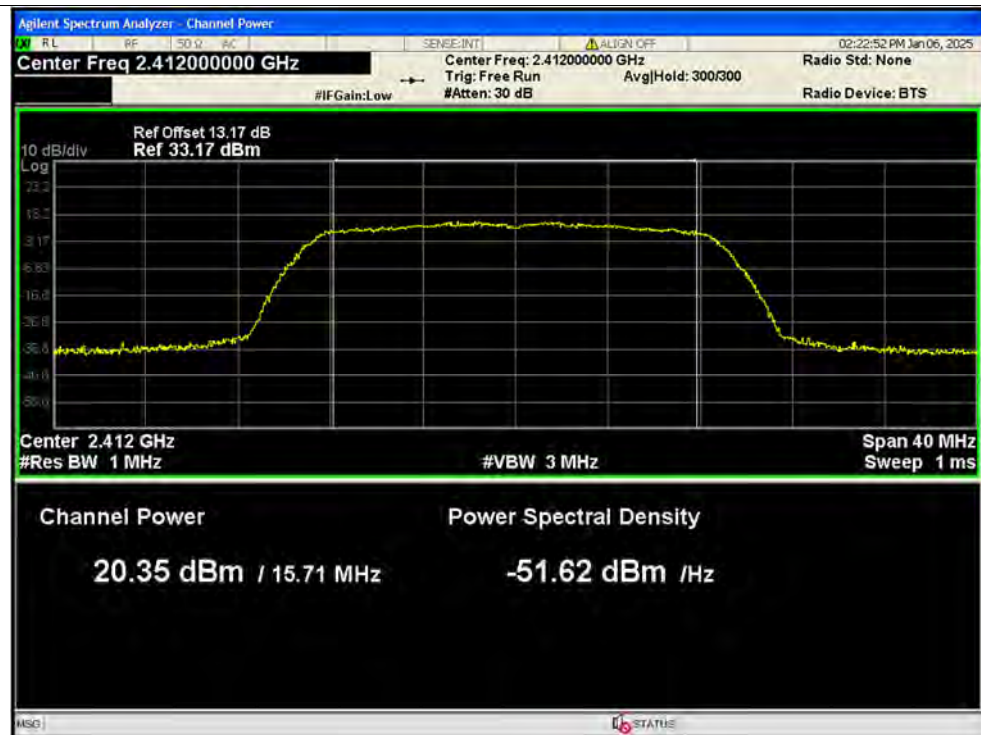
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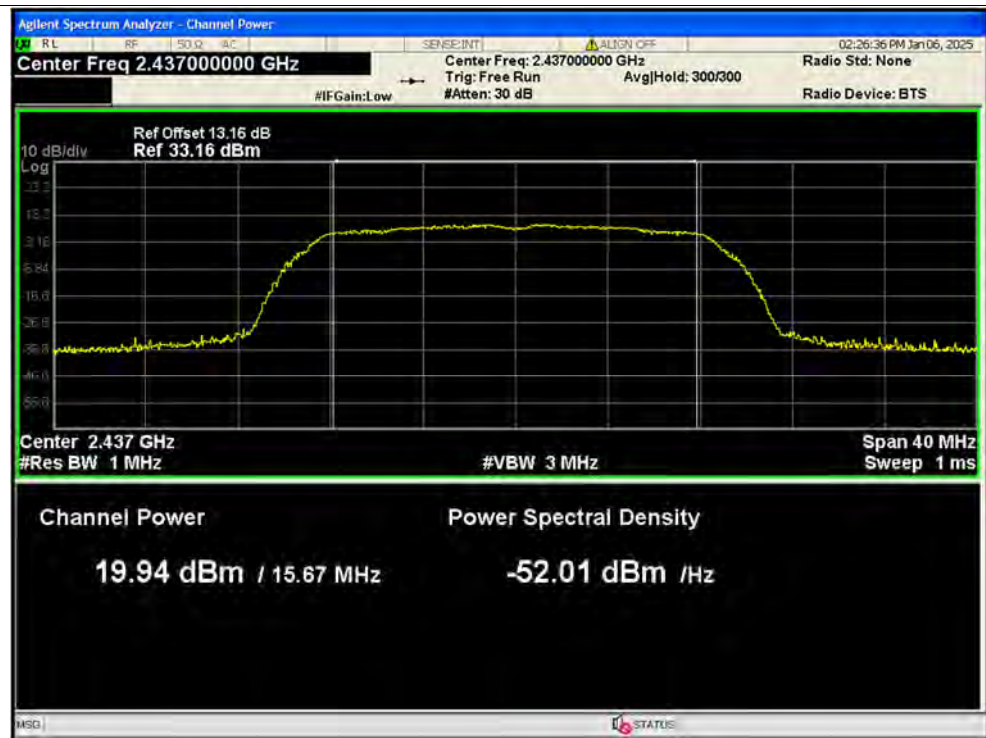
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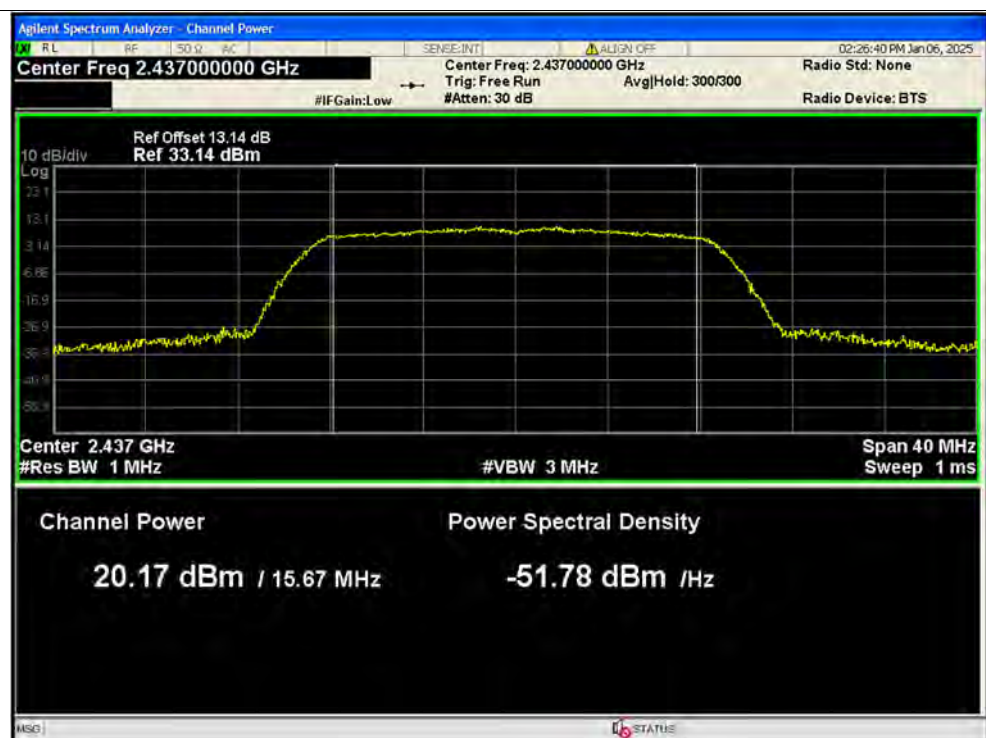
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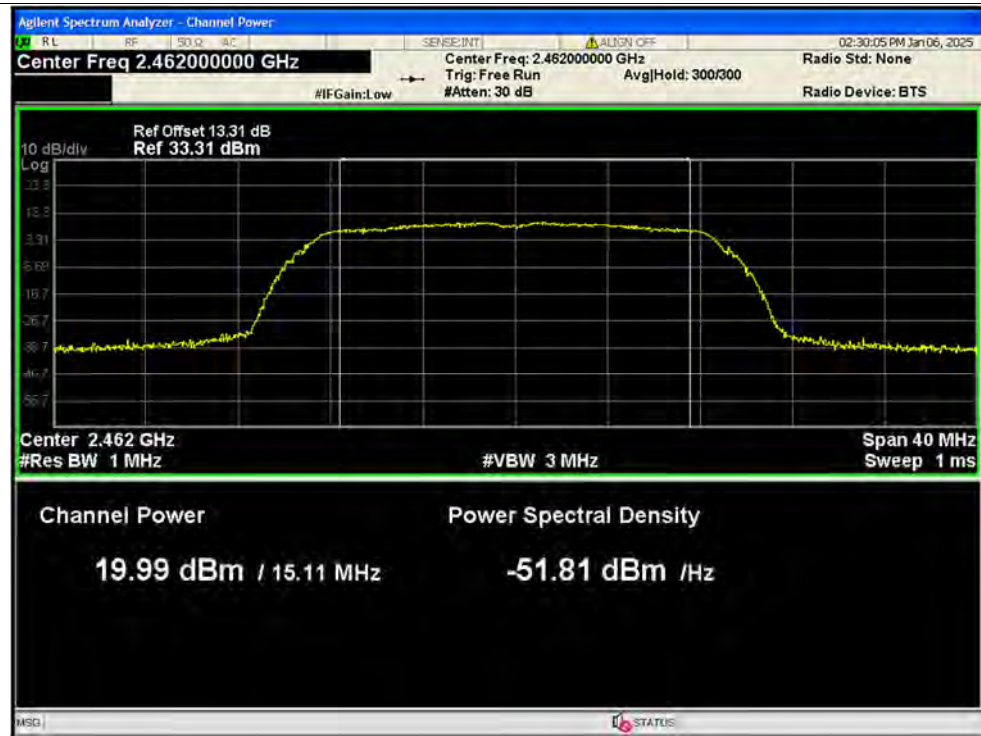
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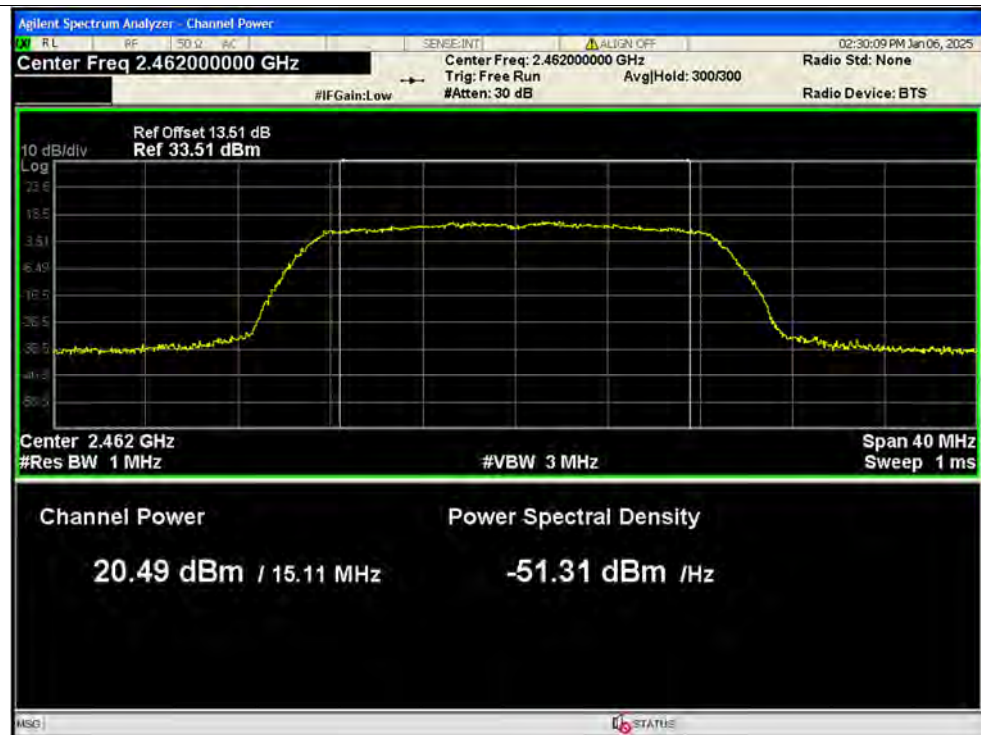
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Peak Power NVNT n20 2462MHz Ant0 MIMO

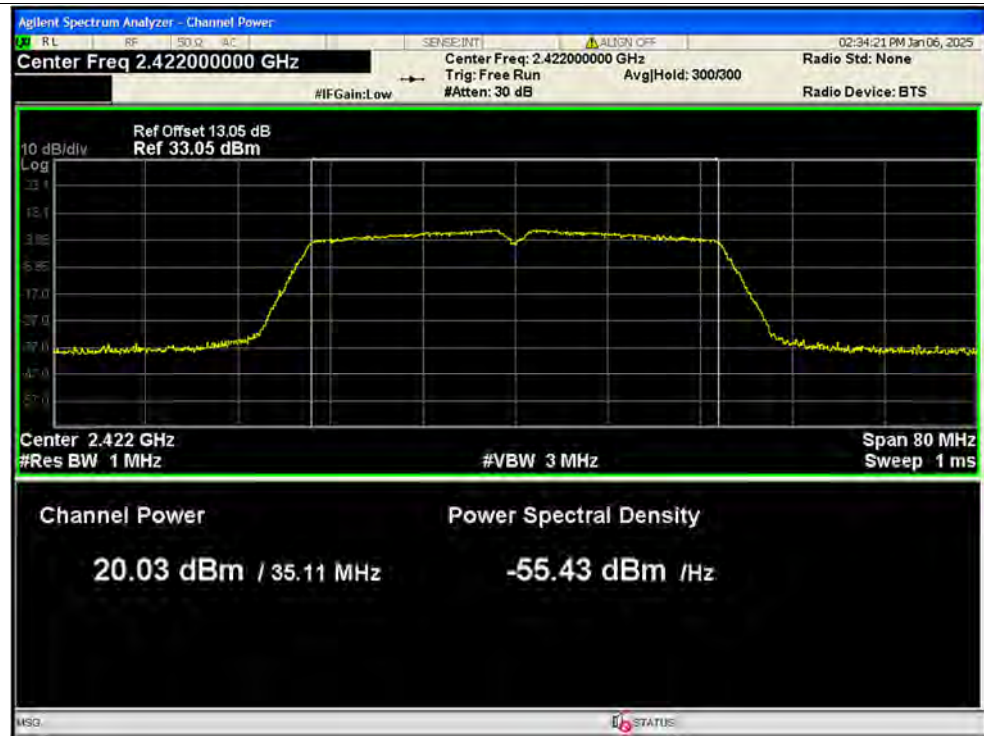


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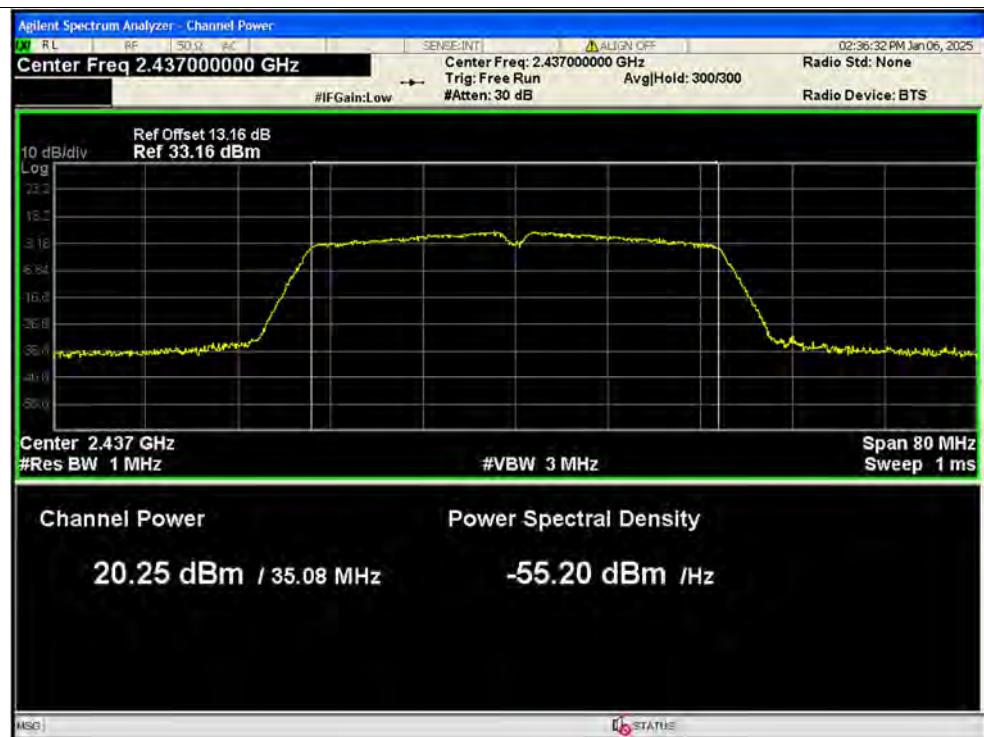




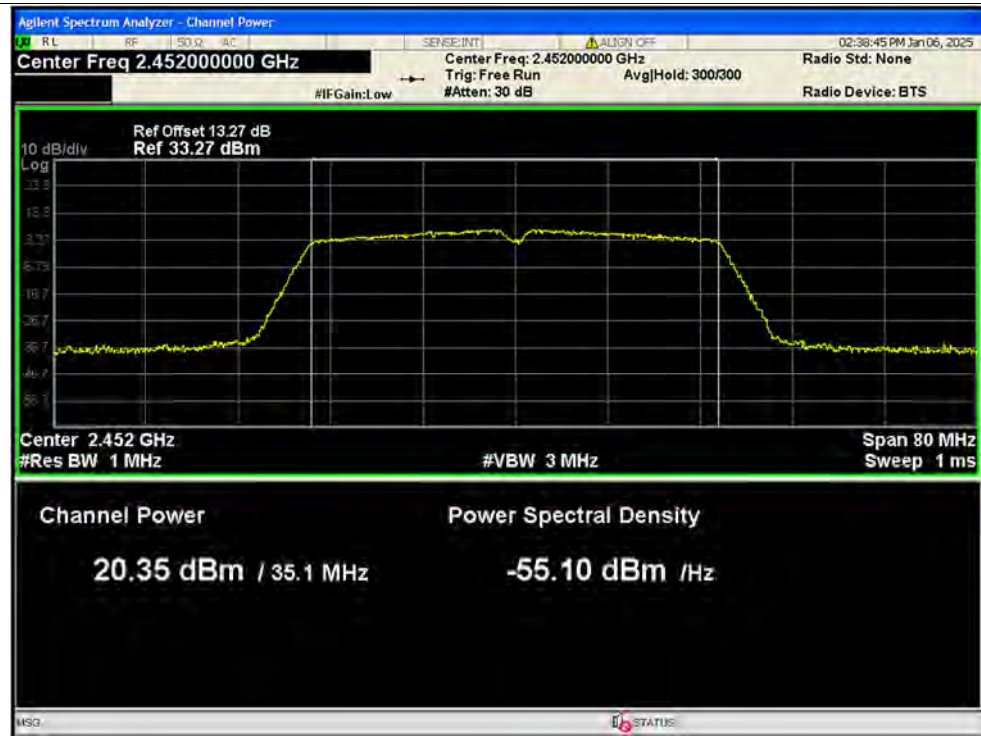
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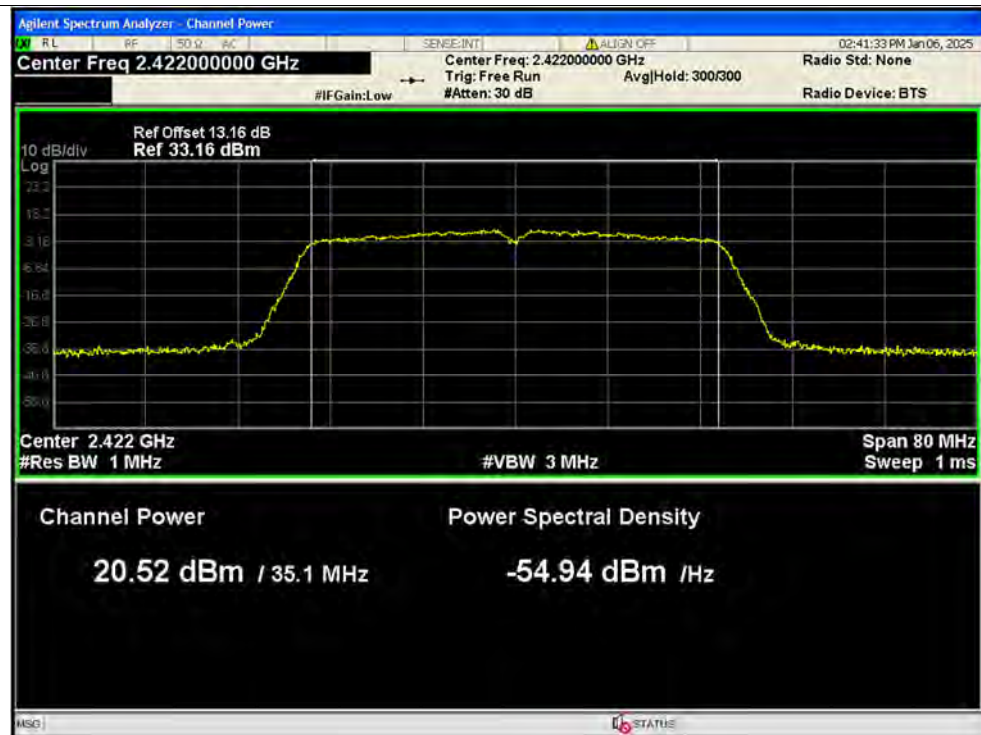
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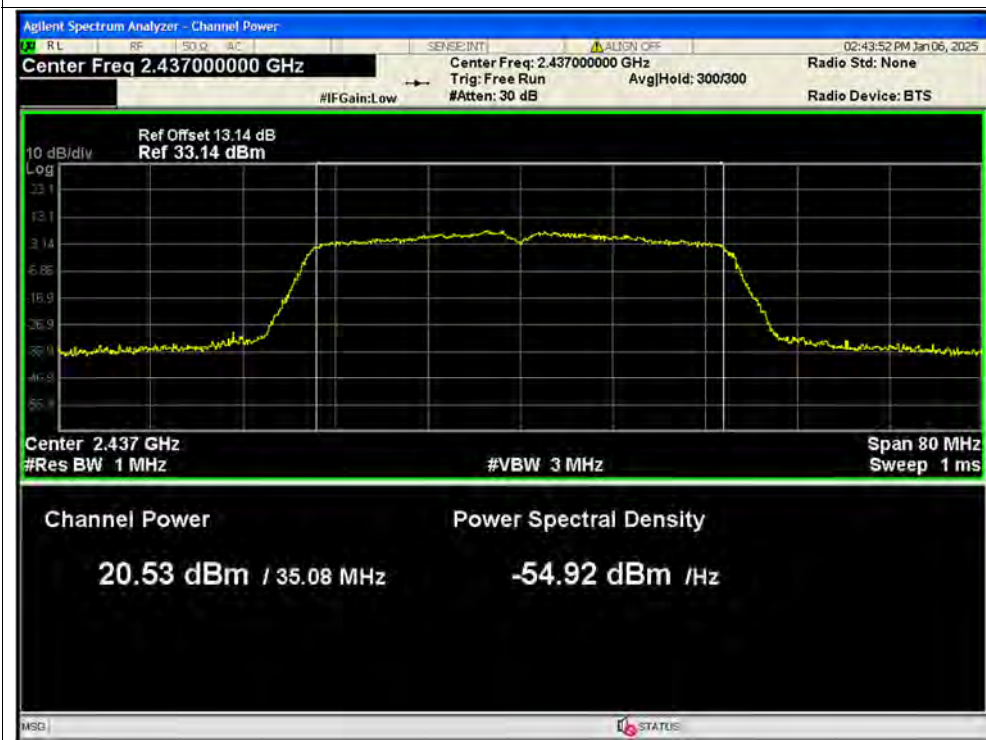
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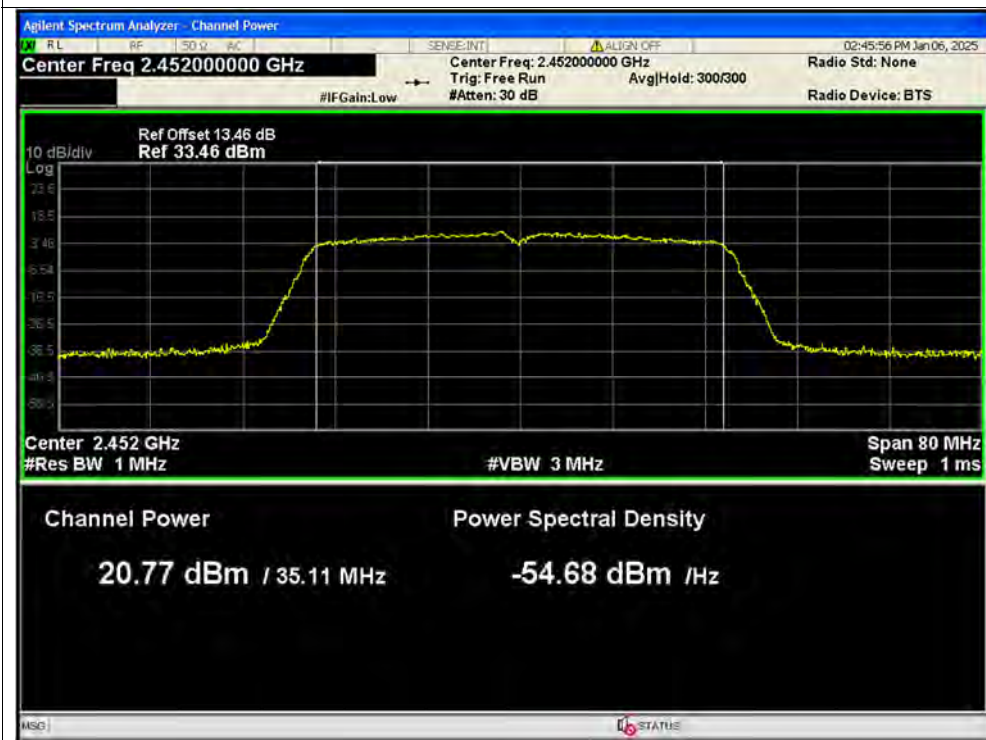
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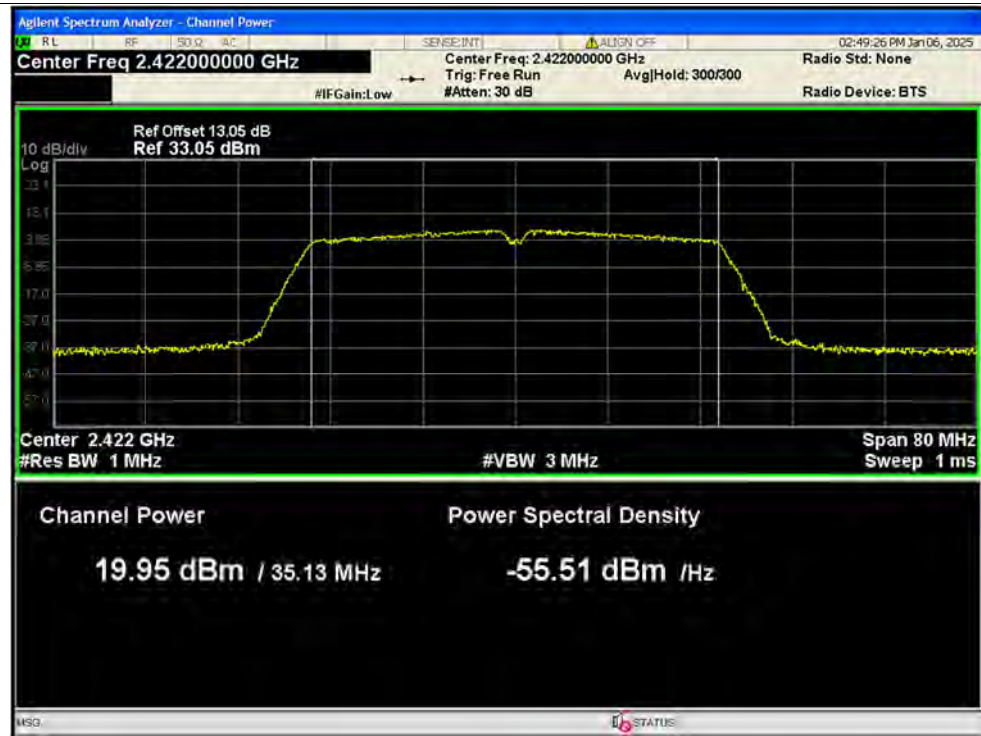
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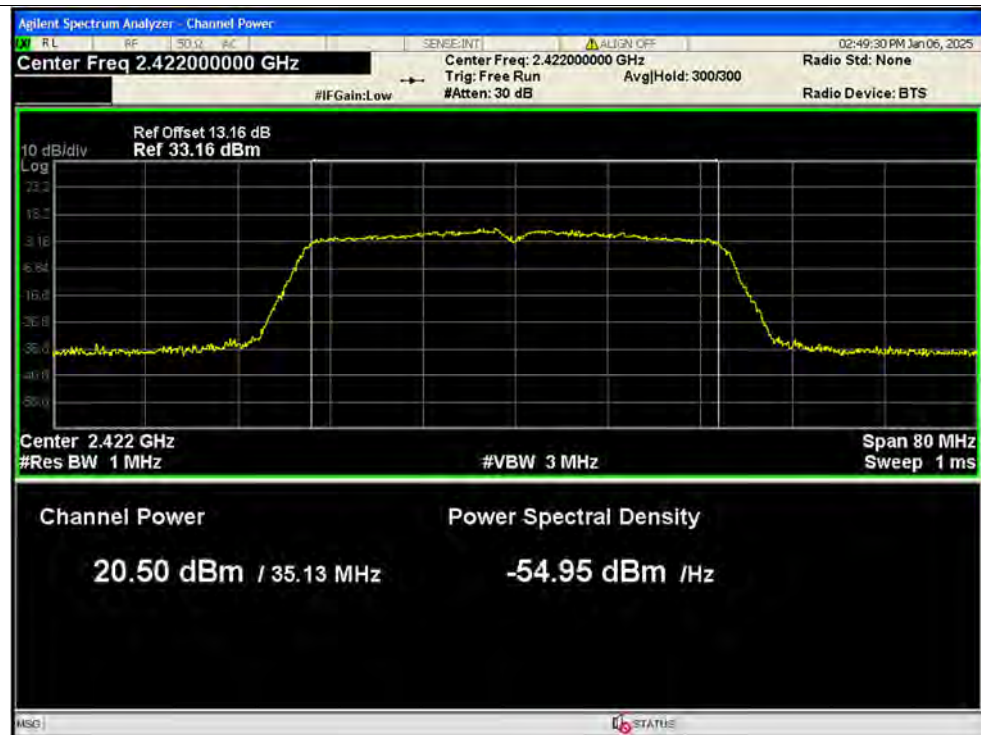
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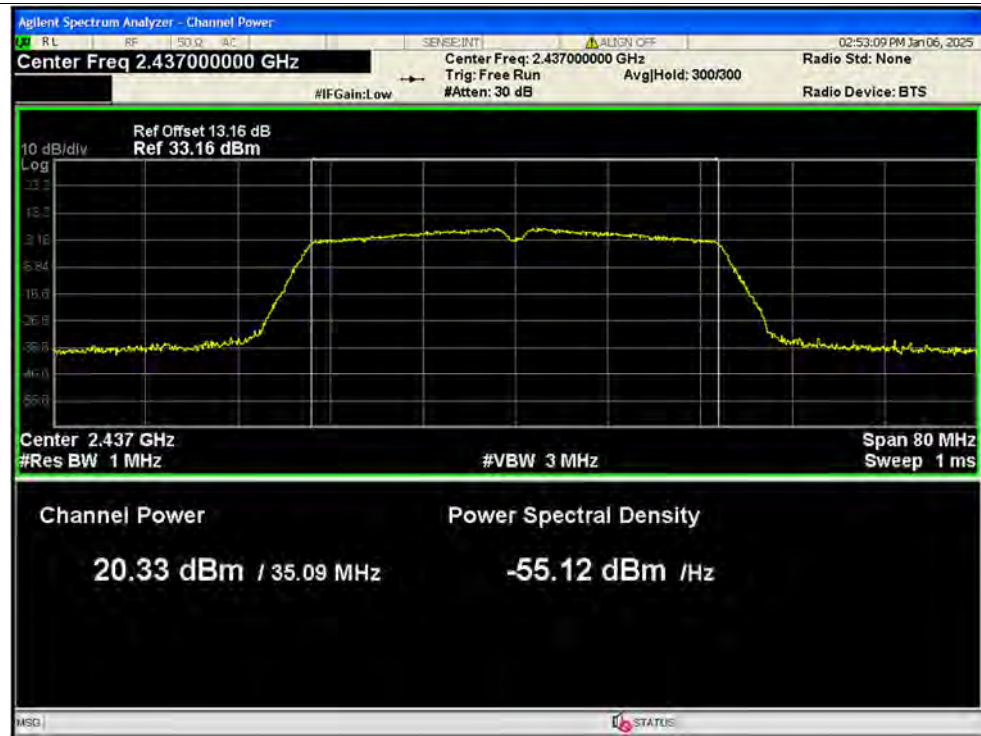
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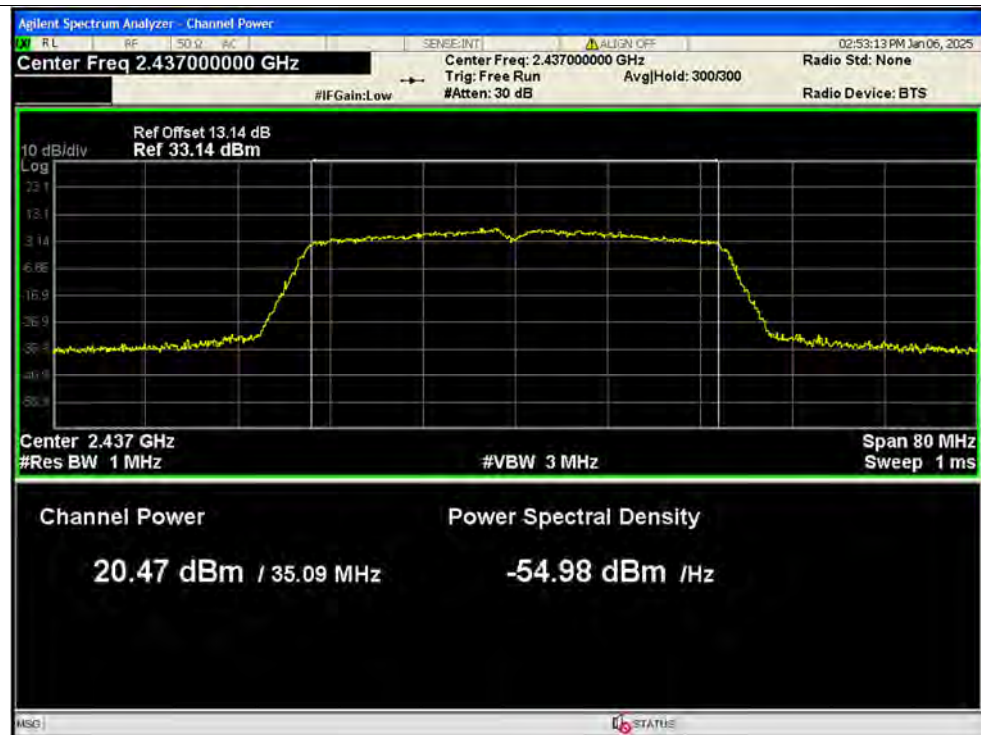
Peak Power NVNT n40 2422MHz Ant1 MIMO



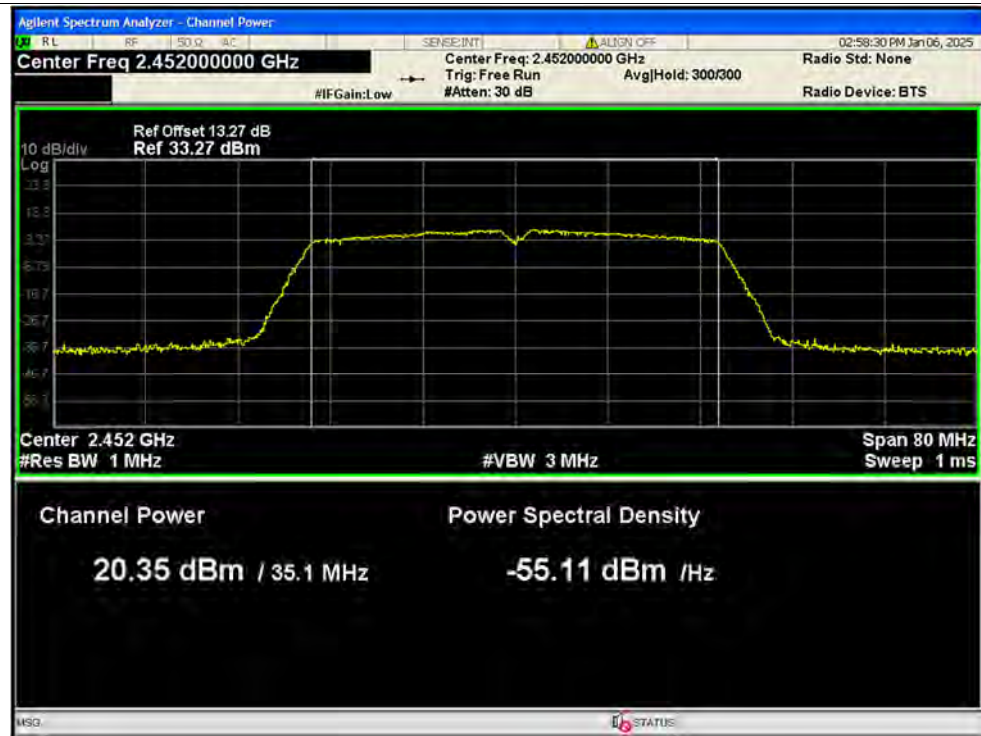
Peak Power NVNT n40 2437MHz Ant0 MIMO



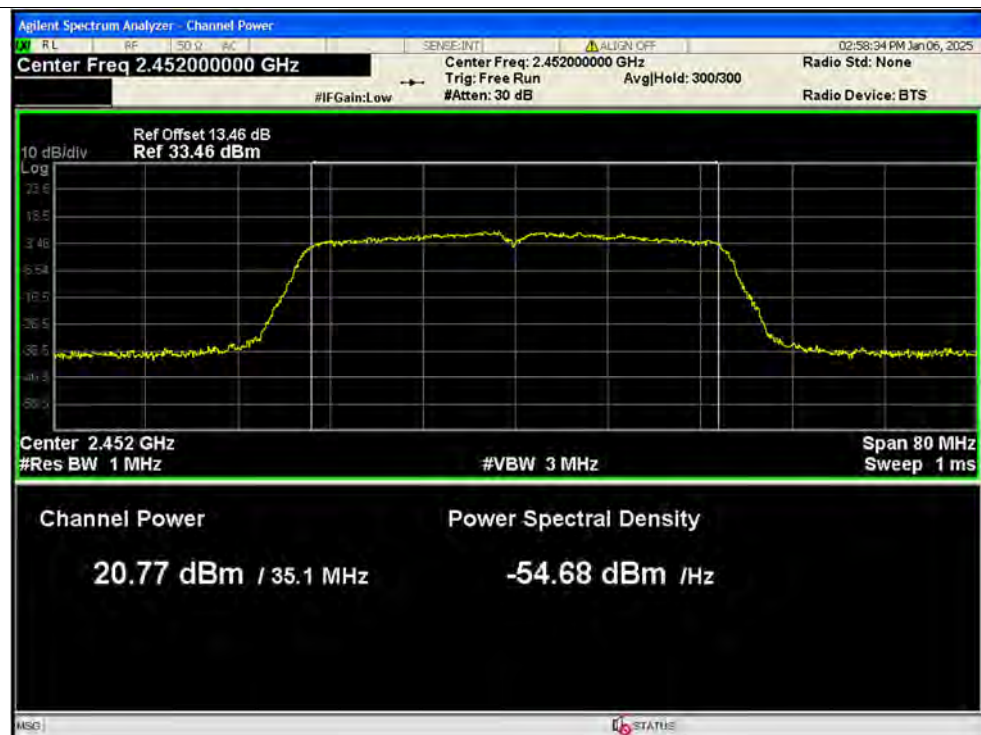
Peak Power NVNT n40 2437MHz Ant1 MIMO



Peak Power NVNT n40 2452MHz Ant0 MIMO



Peak Power NVNT n40 2452MHz Ant1 MIMO



**A.3. Maximum Average Conducted Output Power**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	b SISO	2412	Ant0	14.02	0.02	14.04	0.02535	30	Pass
NVNT	b SISO	2437	Ant0	14.47	0.02	14.49	0.02812	30	Pass
NVNT	b SISO	2462	Ant0	14.53	0.02	14.55	0.02851	30	Pass
NVNT	b SISO	2412	Ant1	13.96	0.02	13.98	0.025	30	Pass
NVNT	b SISO	2437	Ant1	14.39	0.02	14.41	0.02761	30	Pass
NVNT	b SISO	2462	Ant1	14.34	0.02	14.36	0.02729	30	Pass
NVNT	g SISO	2412	Ant0	13.27	0.16	13.43	0.02203	30	Pass
NVNT	g SISO	2437	Ant0	13.39	0.15	13.54	0.02259	30	Pass
NVNT	g SISO	2462	Ant0	13.57	0.16	13.73	0.0236	30	Pass
NVNT	g SISO	2412	Ant1	13.37	0.16	13.53	0.02254	30	Pass
NVNT	g SISO	2437	Ant1	13.29	0.16	13.45	0.02213	30	Pass
NVNT	g SISO	2462	Ant1	13.73	0.17	13.9	0.02455	30	Pass
NVNT	n20 SISO	2412	Ant0	12.17	0.17	12.34	0.01714	30	Pass
NVNT	n20 SISO	2437	Ant0	12.23	0.17	12.4	0.01738	30	Pass
NVNT	n20 SISO	2462	Ant0	12.4	0.16	12.56	0.01803	30	Pass
NVNT	n20 SISO	2412	Ant1	12.22	0.18	12.4	0.01738	30	Pass
NVNT	n20	2437	Ant1	12.13	0.18	12.31	0.01702	30	Pass



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	SISO								
NVNT	n20 SISO	2462	Ant1	12.51	0.17	12.68	0.01854	30	Pass
NVNT	n20 MIMO	2412	Ant0	12.19	0.18	12.37	0.01726	30	Pass
NVNT	n20 MIMO	2412	Ant1	12.52	0.18	12.7	0.01862	30	Pass
NVNT	n20 MIMO	2412	Sum	NaN	NaN	15.55	0.03588	28.3	Pass
NVNT	n20 MIMO	2437	Ant0	12.37	0.17	12.54	0.01795	30	Pass
NVNT	n20 MIMO	2437	Ant1	12.36	0.17	12.53	0.01791	30	Pass
NVNT	n20 MIMO	2437	Sum	NaN	NaN	15.54	0.03585	28.3	Pass
NVNT	n20 MIMO	2462	Ant0	12.49	0.17	12.66	0.01845	30	Pass
NVNT	n20 MIMO	2462	Ant1	12.74	0.17	12.91	0.01954	30	Pass
NVNT	n20 MIMO	2462	Sum	NaN	NaN	15.8	0.03799	28.3	Pass
NVNT	n40 SISO	2422	Ant0	12.13	0.34	12.47	0.01766	30	Pass
NVNT	n40 SISO	2437	Ant0	12.36	0.34	12.7	0.01862	30	Pass
NVNT	n40 SISO	2452	Ant0	12.46	0.33	12.79	0.01901	30	Pass
NVNT	n40 SISO	2422	Ant1	12.28	0.34	12.62	0.01828	30	Pass
NVNT	n40 SISO	2437	Ant1	12.31	0.35	12.66	0.01845	30	Pass
NVNT	n40 SISO	2452	Ant1	12.51	0.35	12.86	0.01932	30	Pass
NVNT	n40 MIMO	2422	Ant0	12.07	0.34	12.41	0.01742	30	Pass
NVNT	n40 MIMO	2422	Ant1	12.24	0.34	12.58	0.01811	30	Pass
NVNT	n40 MIMO	2422	Sum	NaN	NaN	15.51	0.03553	28.3	Pass



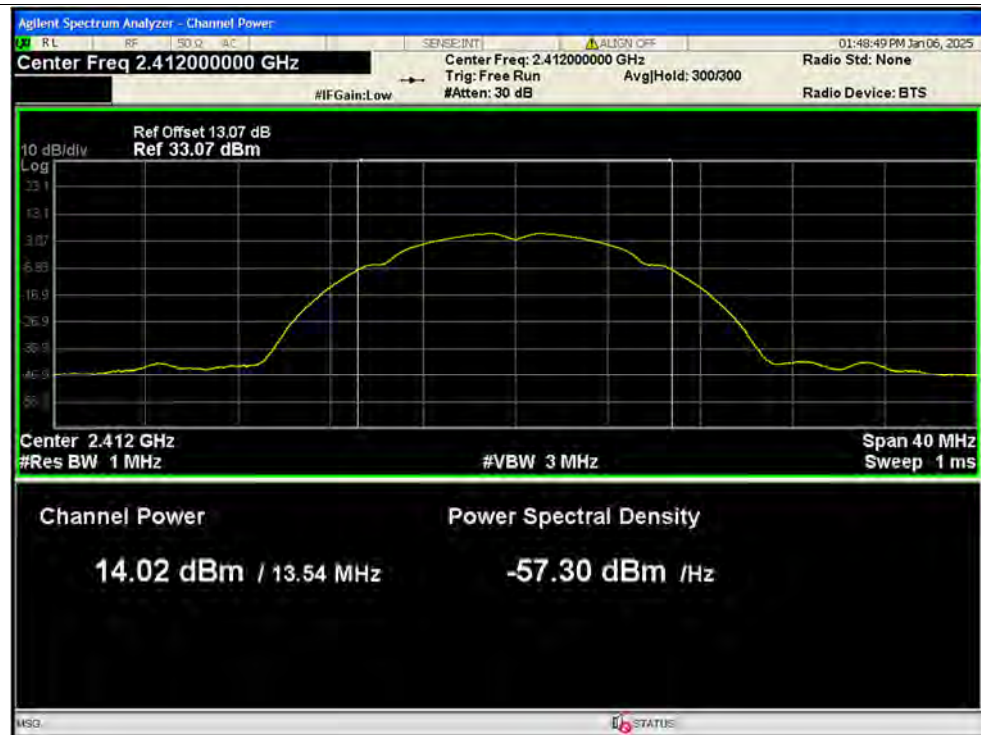
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NVNT	n40 MIMO	2437	Ant0	12.48	0.33	12.81	0.0191	30	Pass
NVNT	n40 MIMO	2437	Ant1	12.23	0.33	12.56	0.01803	30	Pass
NVNT	n40 MIMO	2437	Sum	NaN	NaN	15.7	0.03713	28.3	Pass
NVNT	n40 MIMO	2452	Ant0	12.44	0.35	12.79	0.01901	30	Pass
NVNT	n40 MIMO	2452	Ant1	12.53	0.35	12.88	0.01941	30	Pass
NVNT	n40 MIMO	2452	Sum	NaN	NaN	15.85	0.03842	28.3	Pass

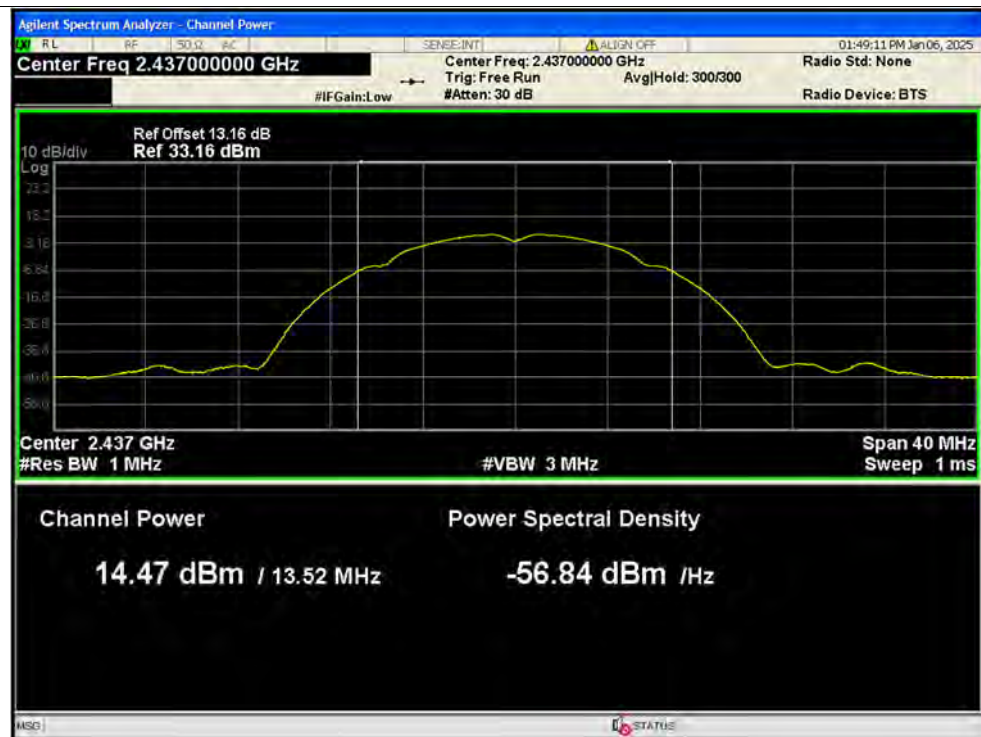


Test Graphs

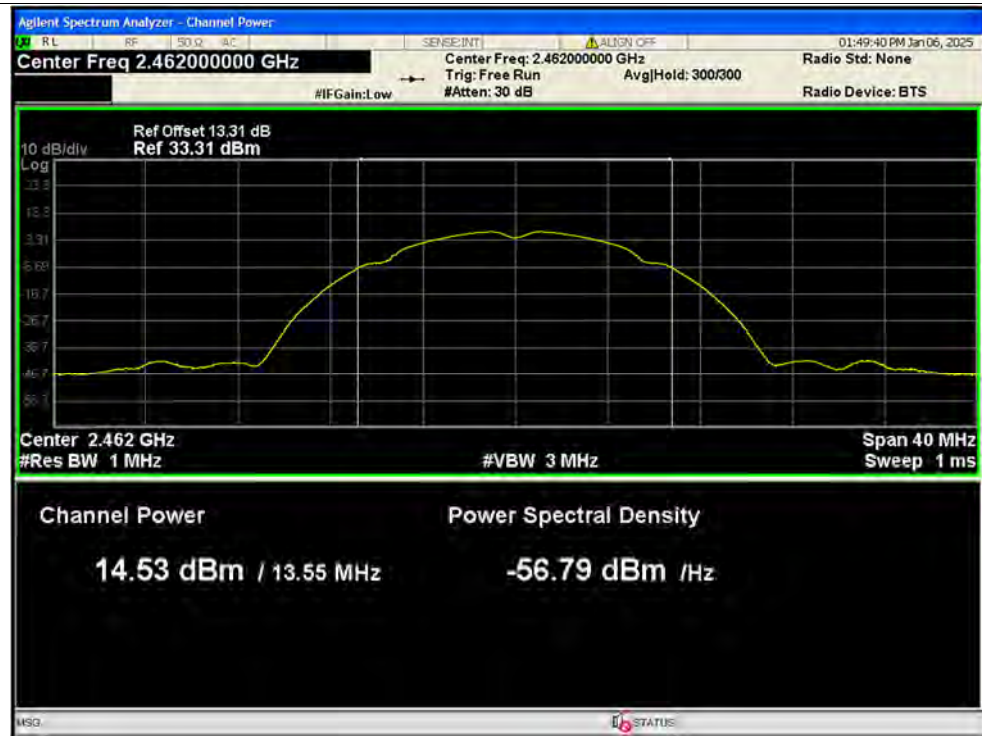
Average Power NVNT b 2412MHz Ant0 SISO



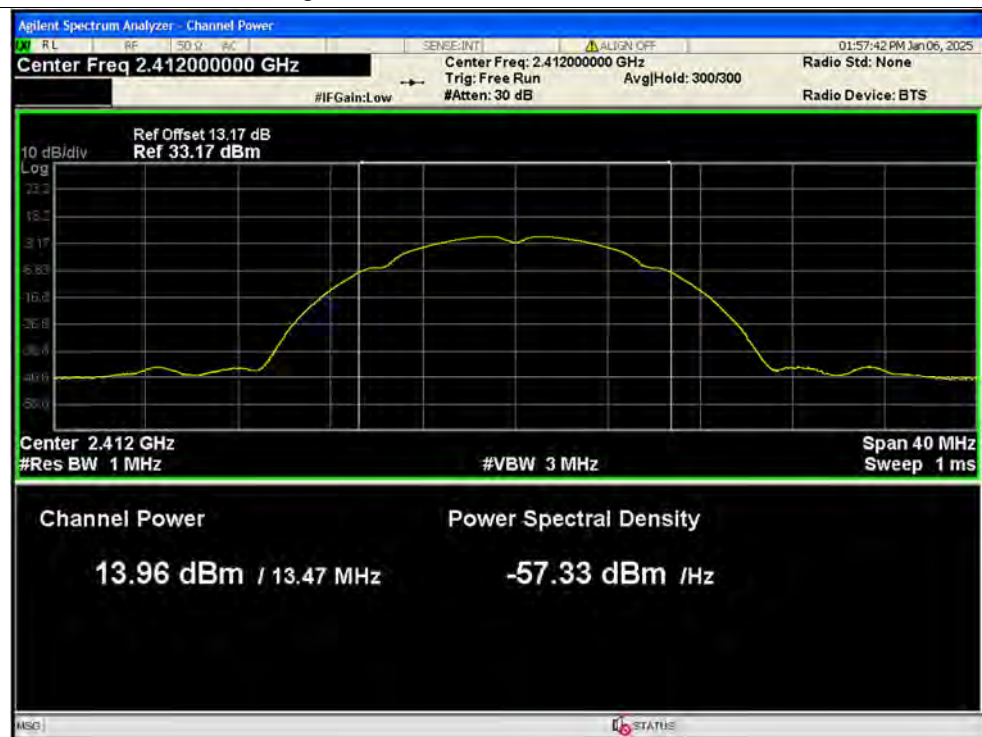
Average Power NVNT b 2437MHz Ant0 SISO



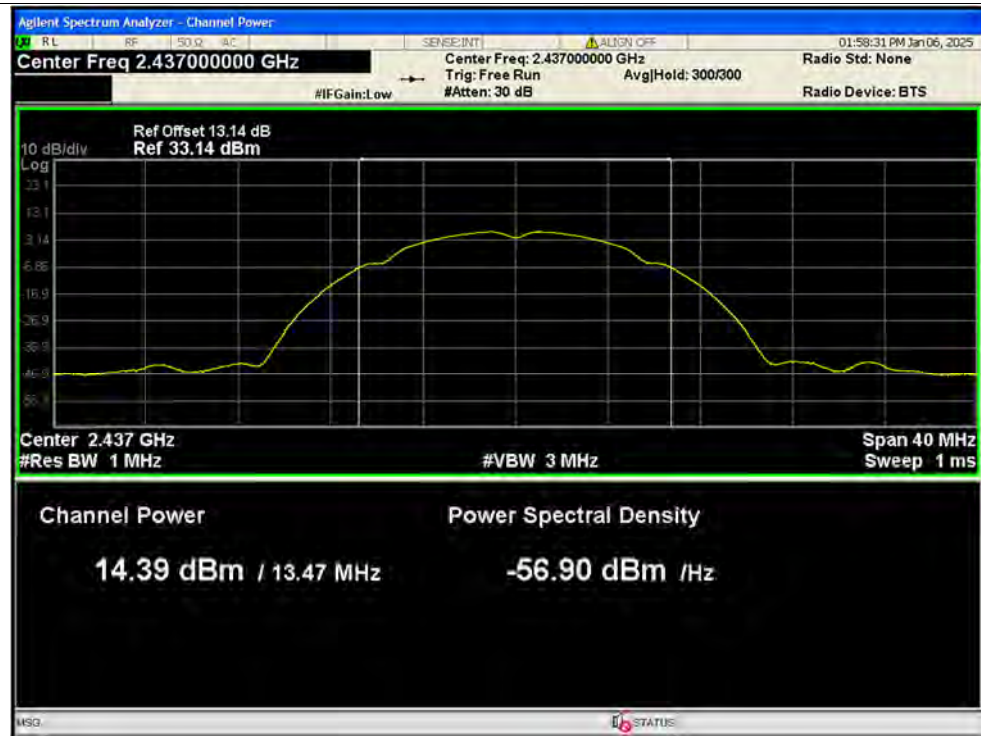
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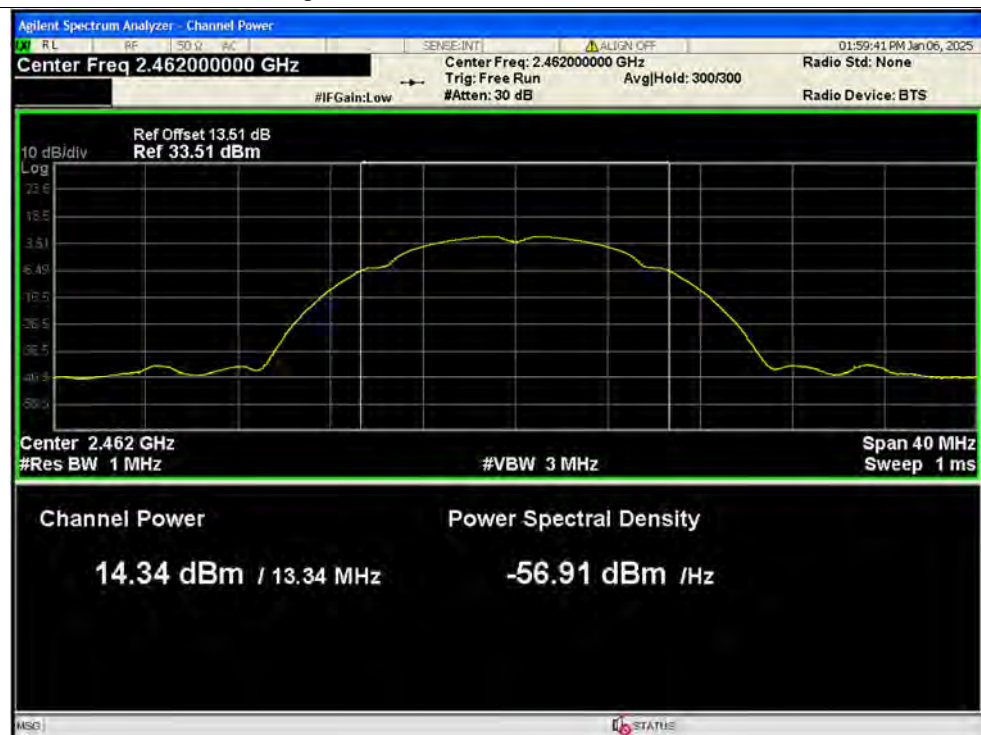
Average Power NVNT b 2412MHz Ant1 SISO



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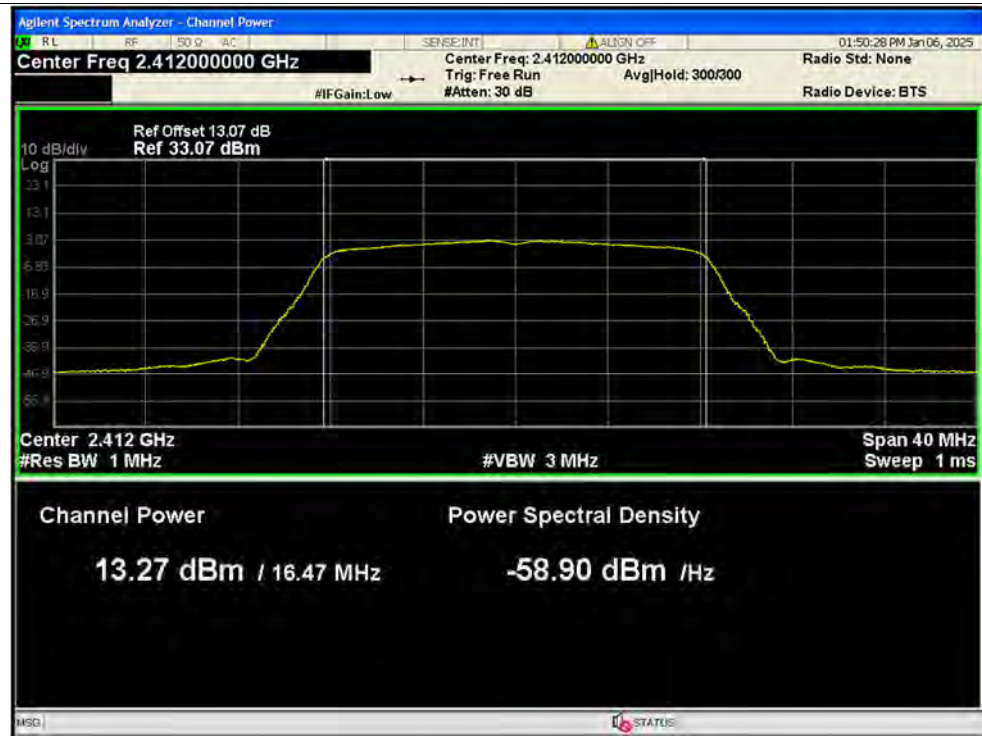


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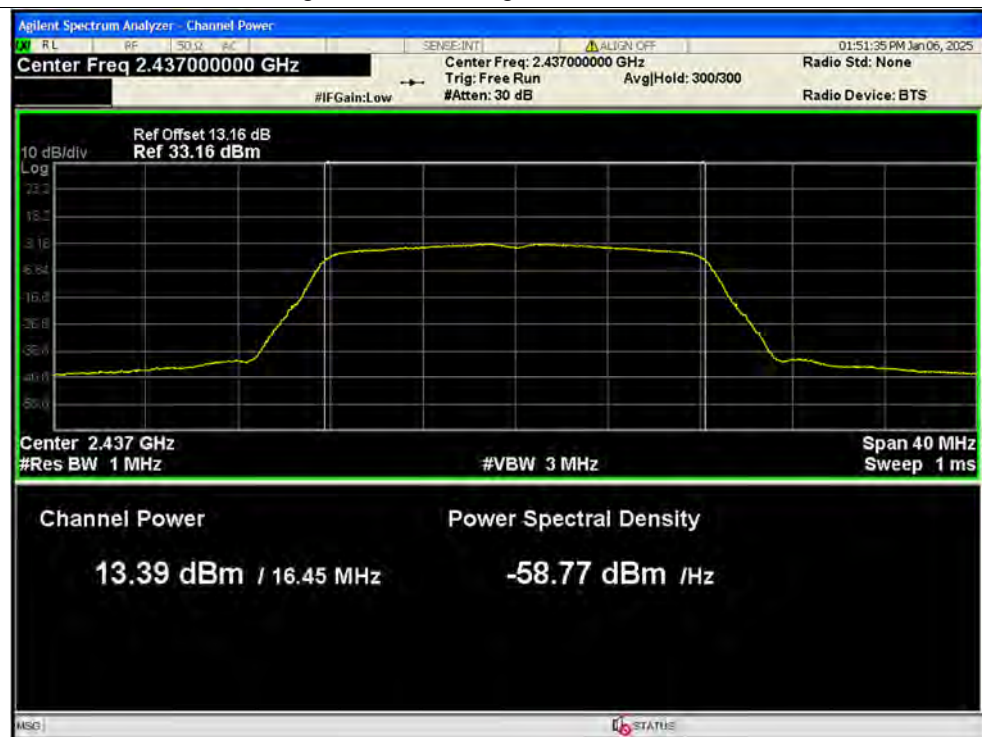




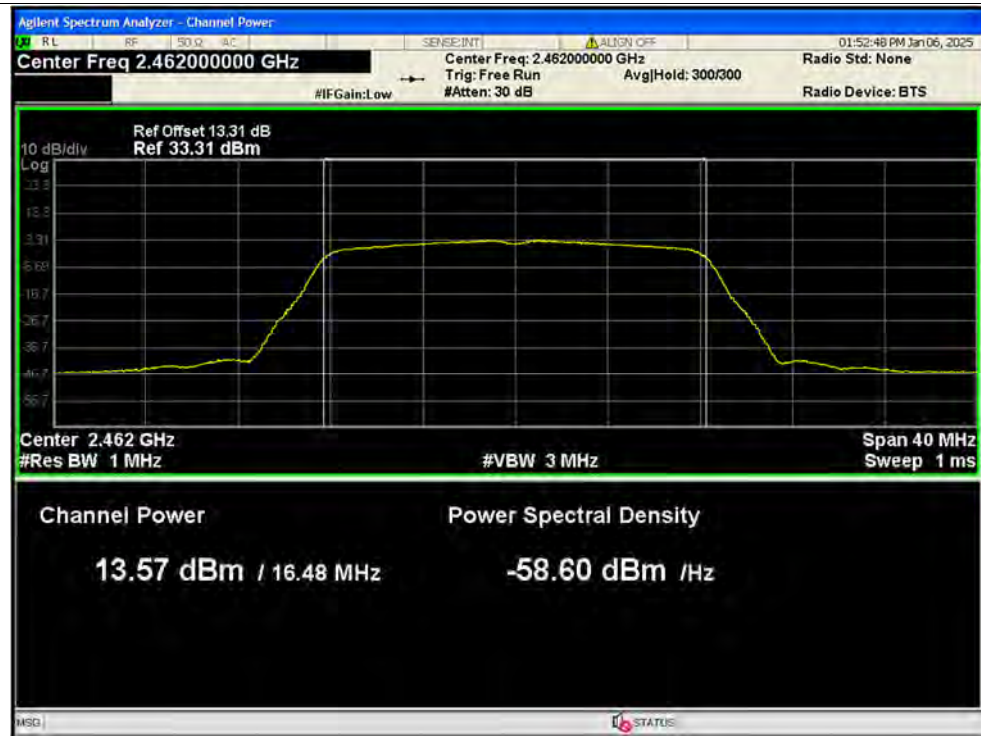
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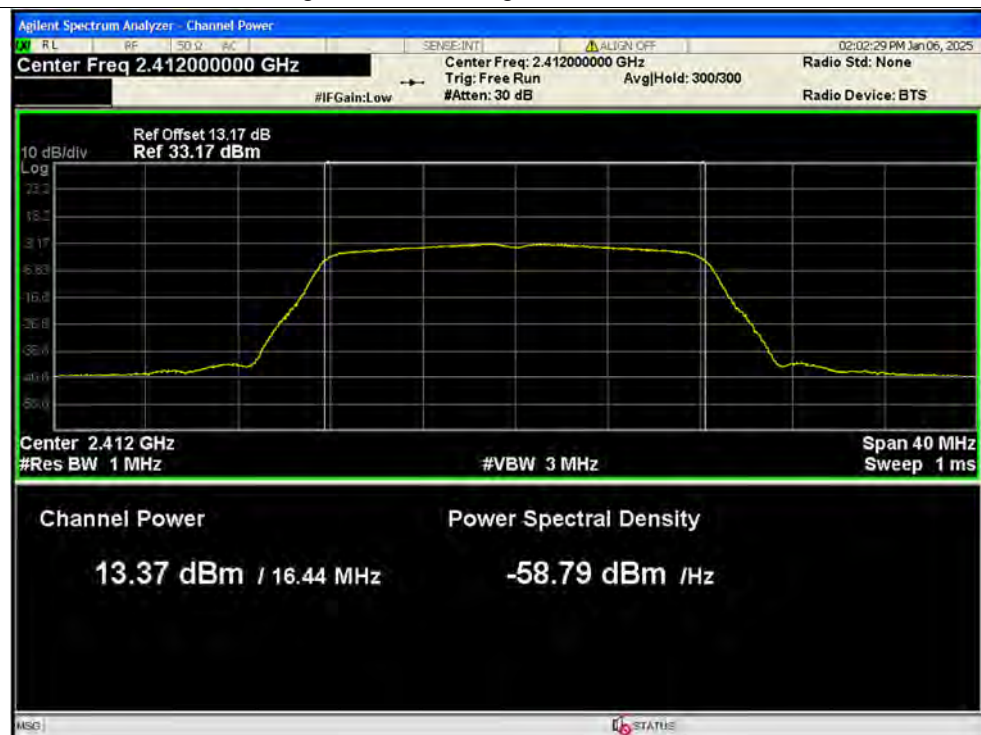
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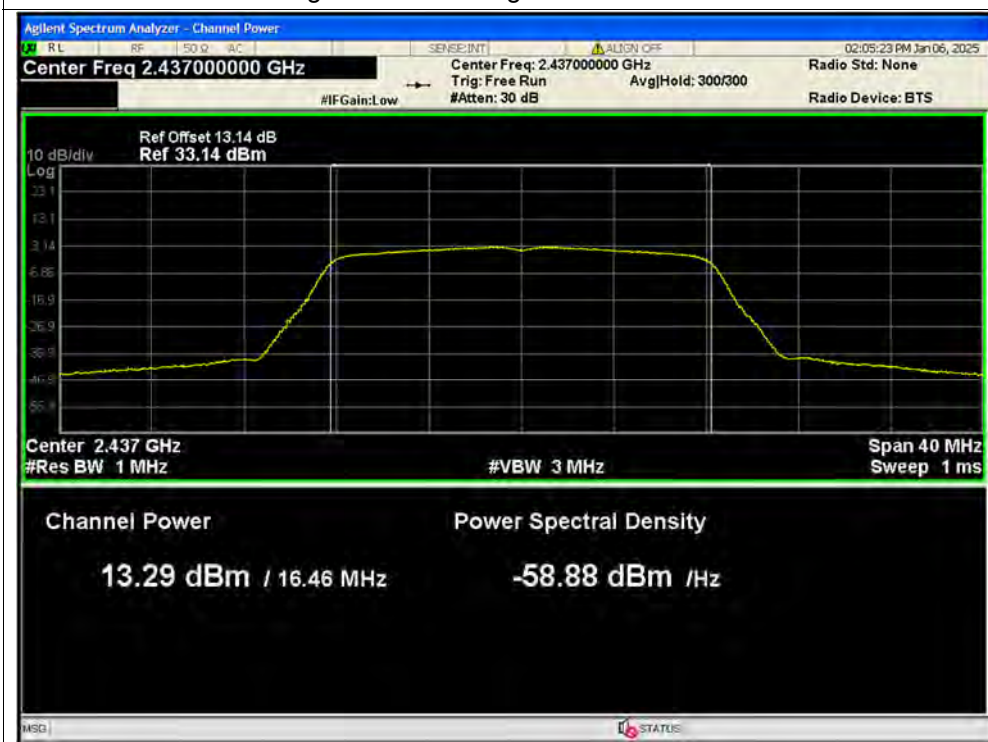


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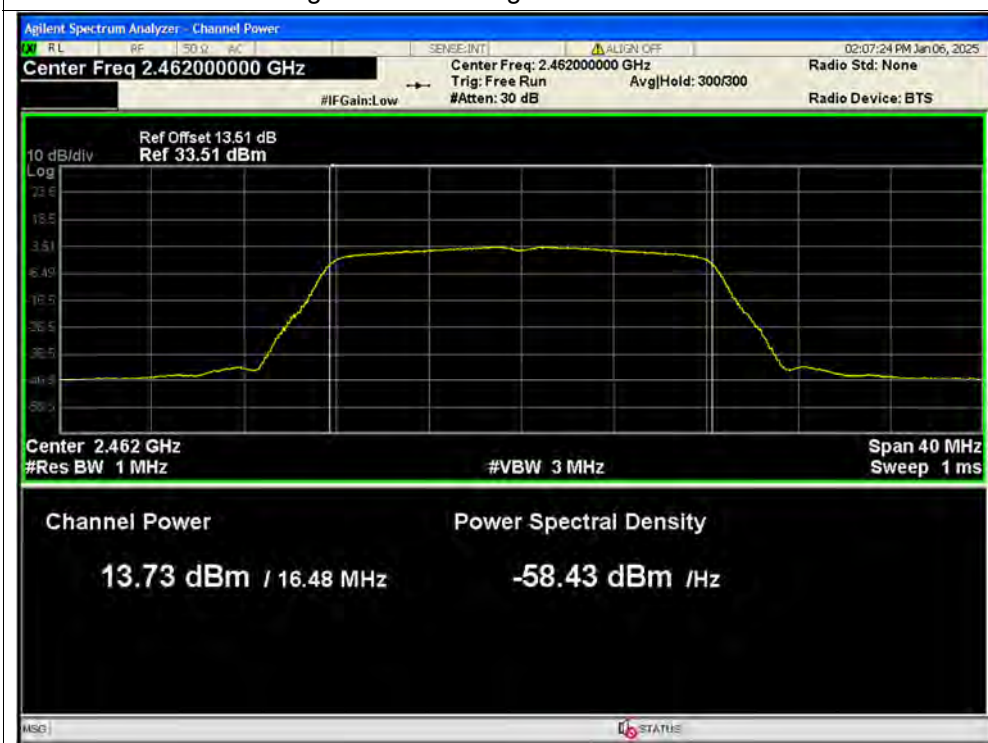




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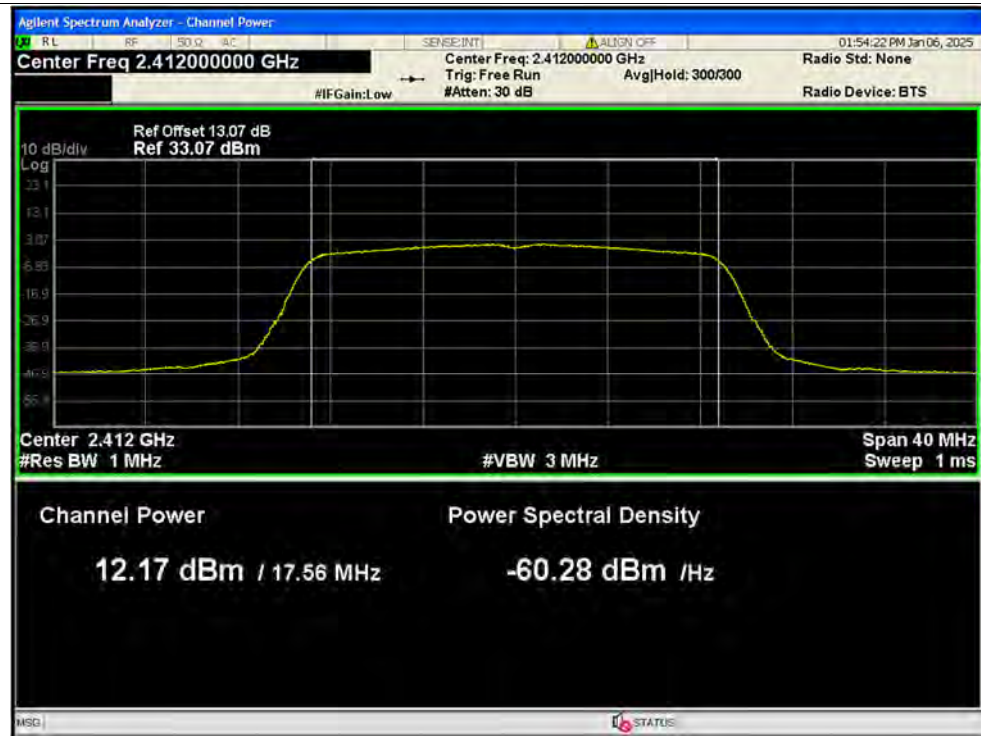


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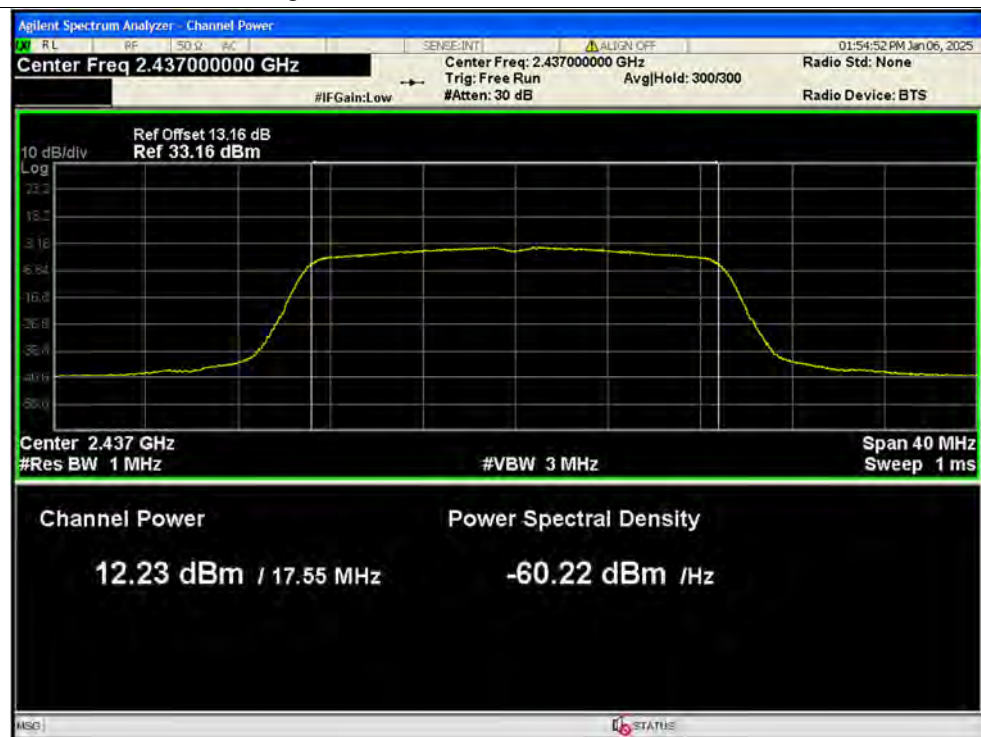




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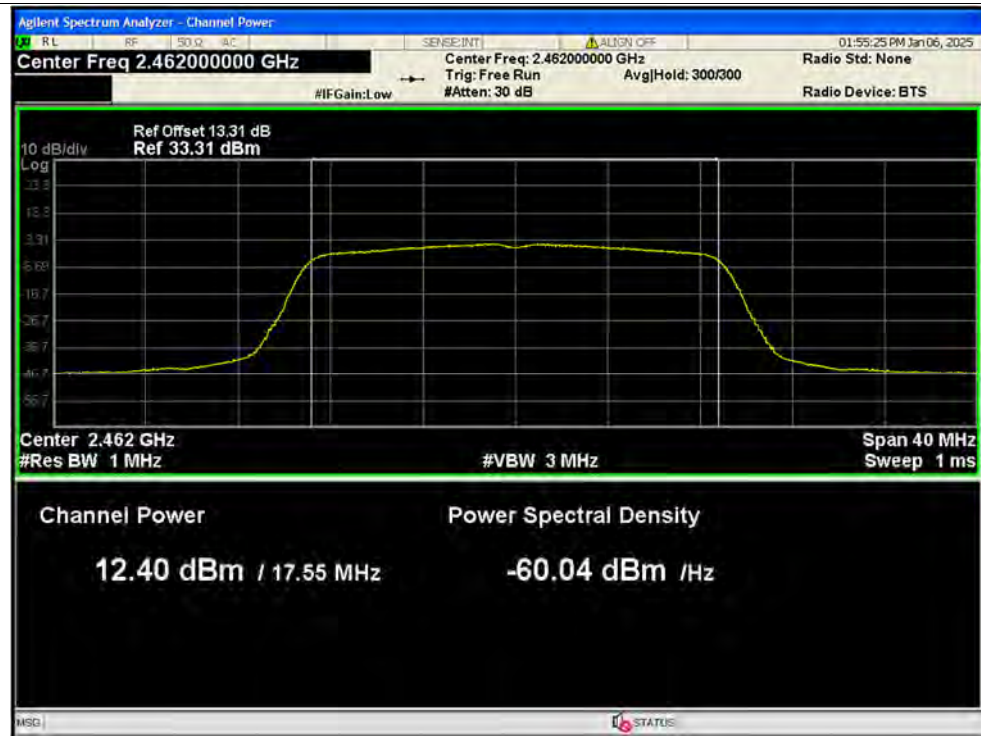


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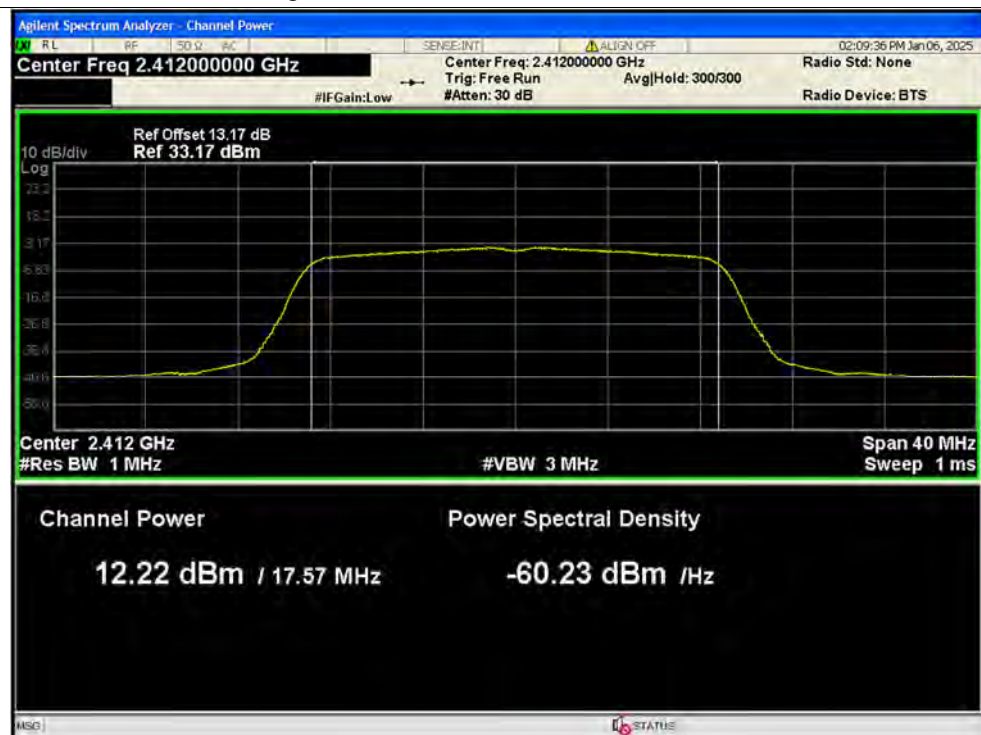




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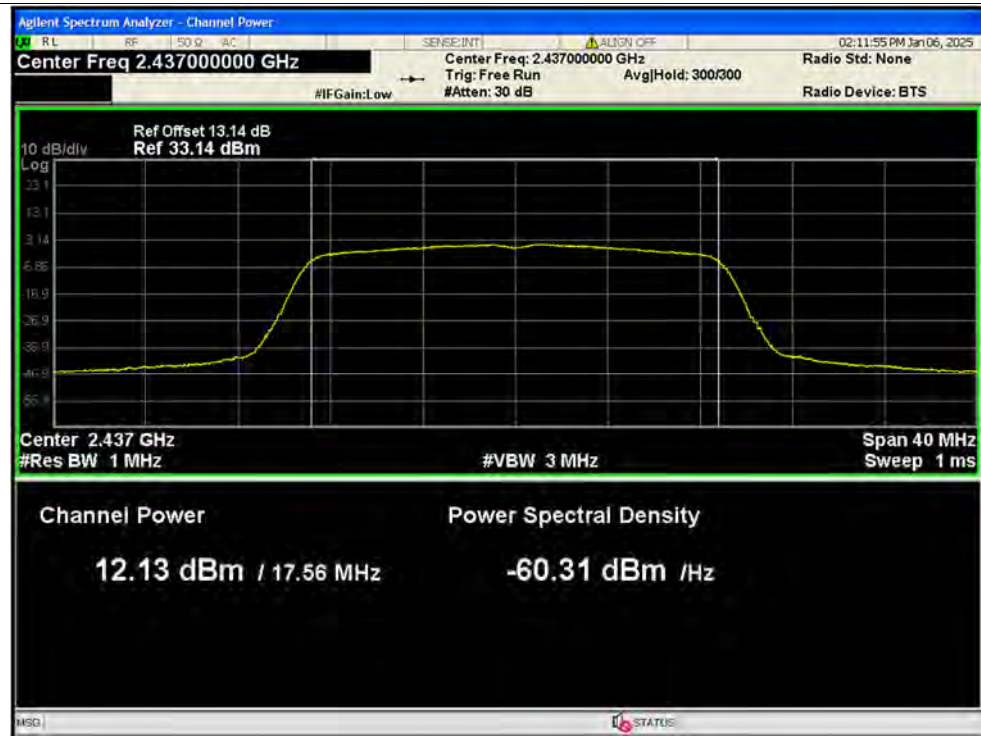


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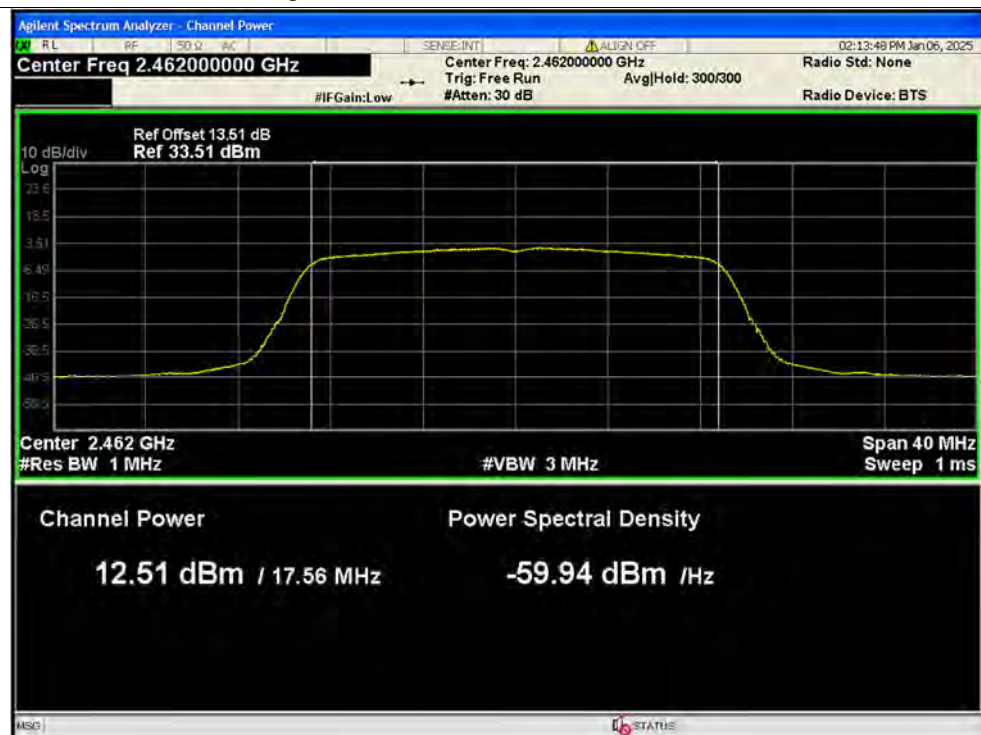




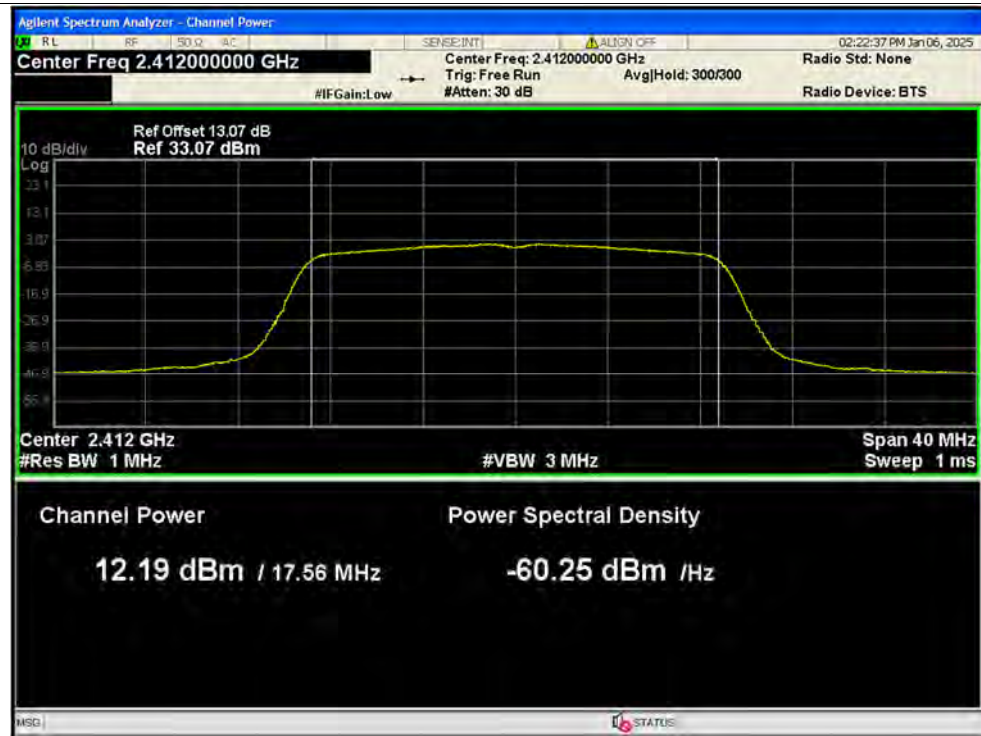
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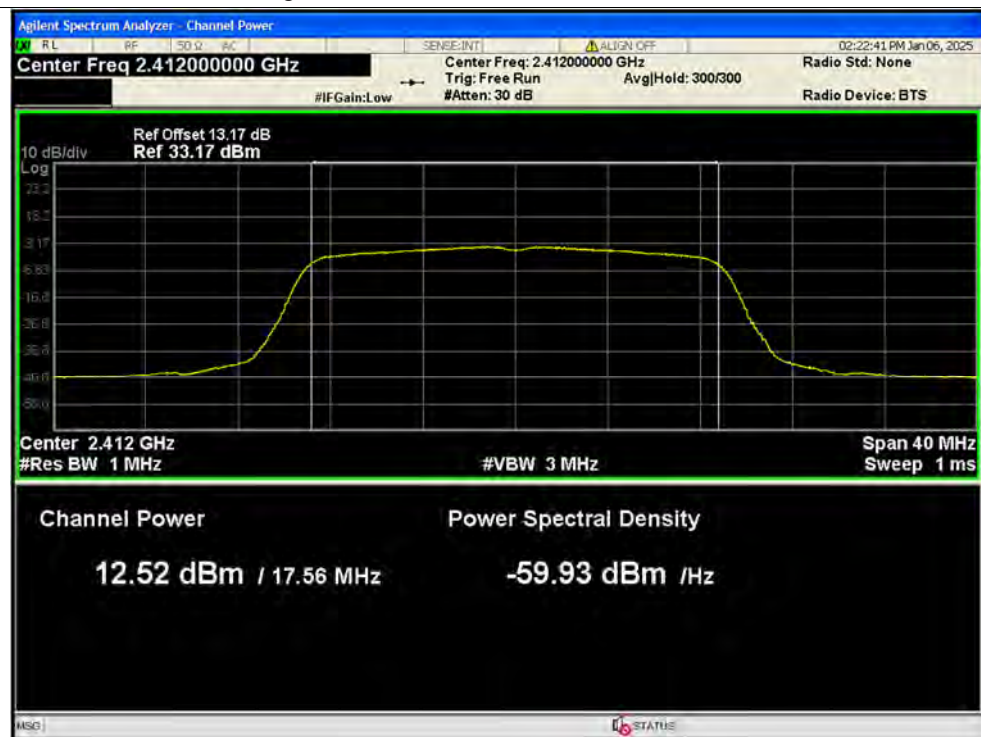
Average Power NVNT n20 2462MHz Ant1 SISO



Average Power NVNT n20 2412MHz Ant0 MIMO

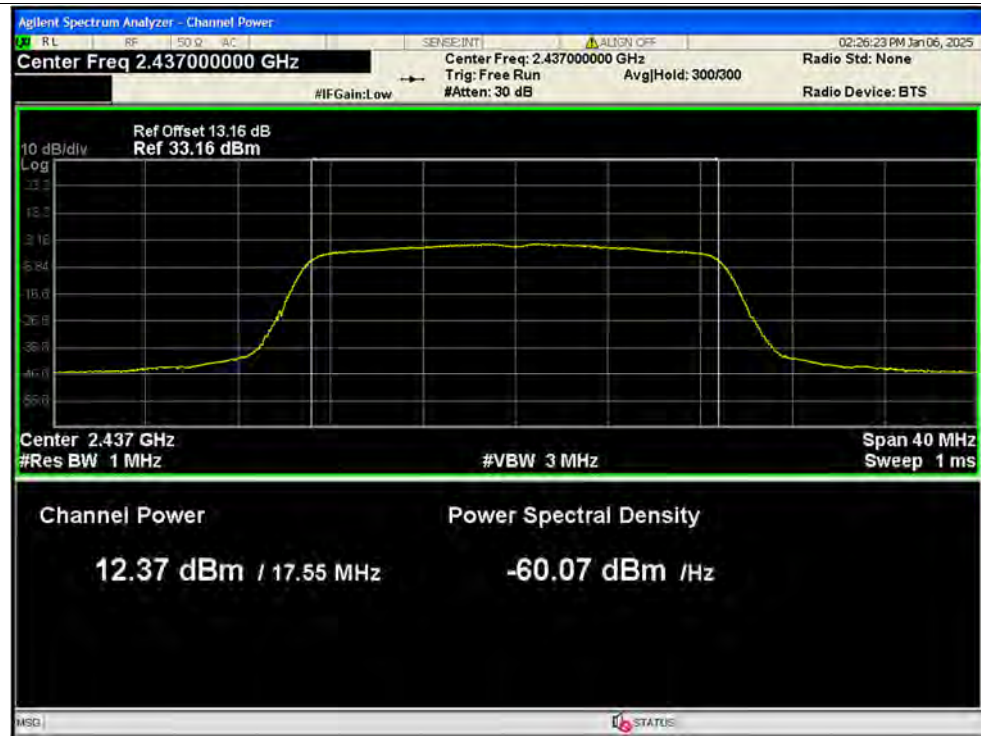


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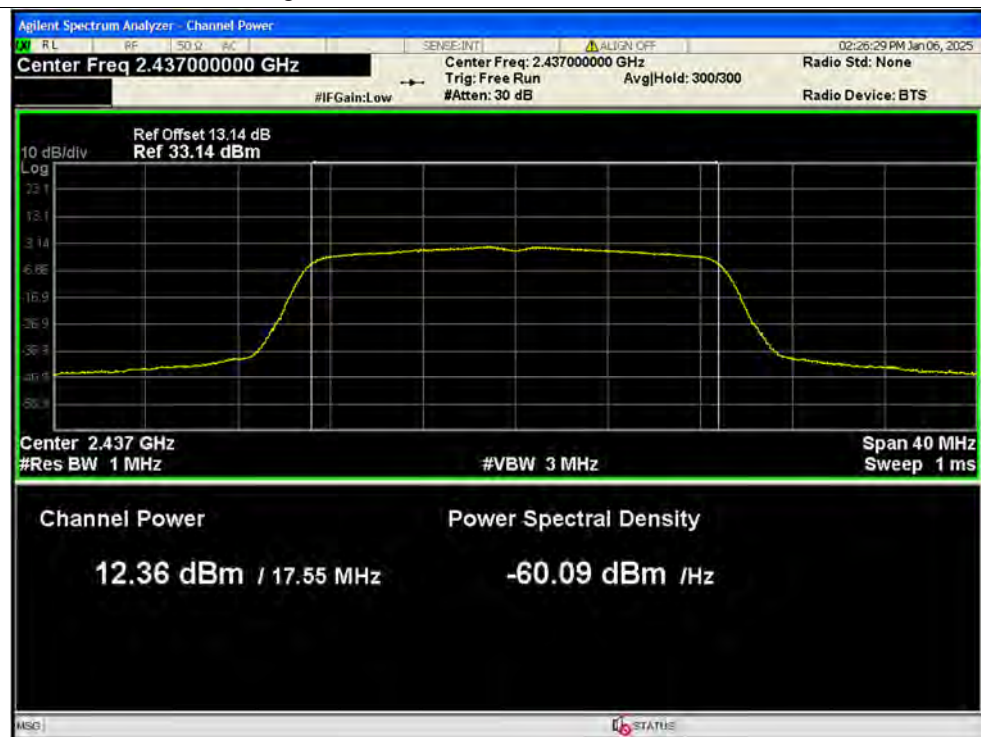




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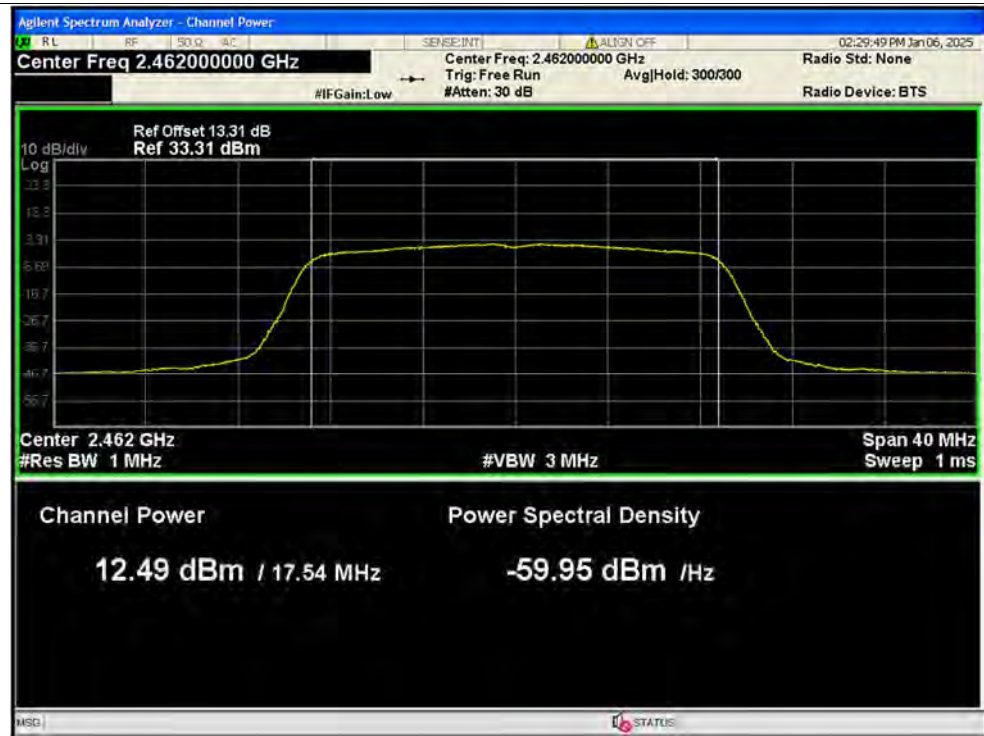


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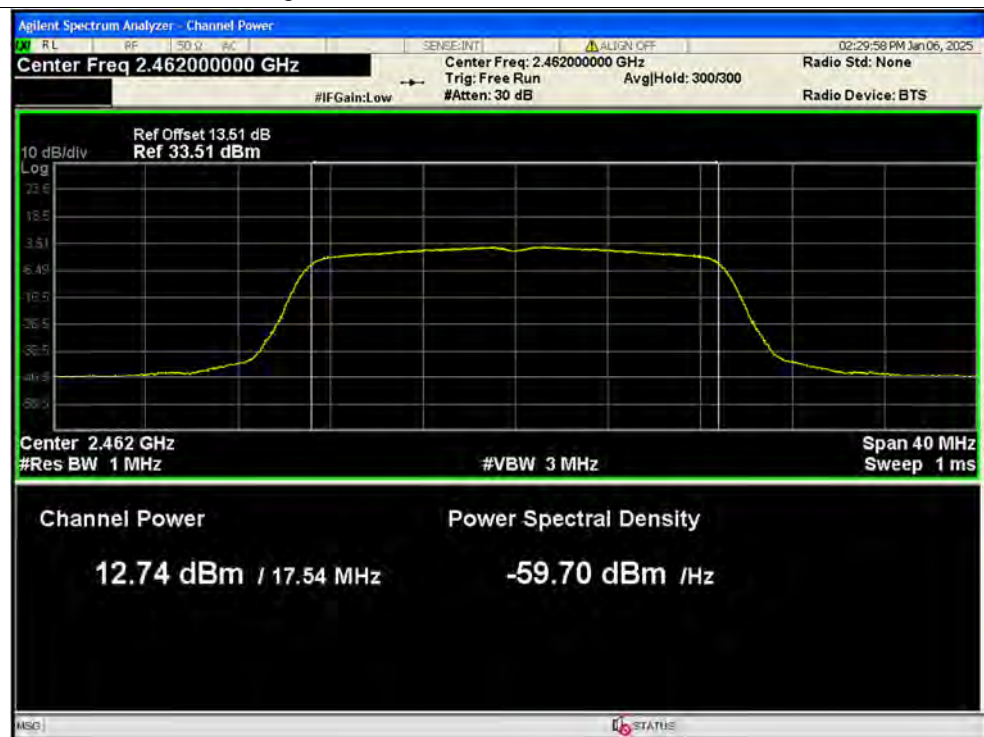




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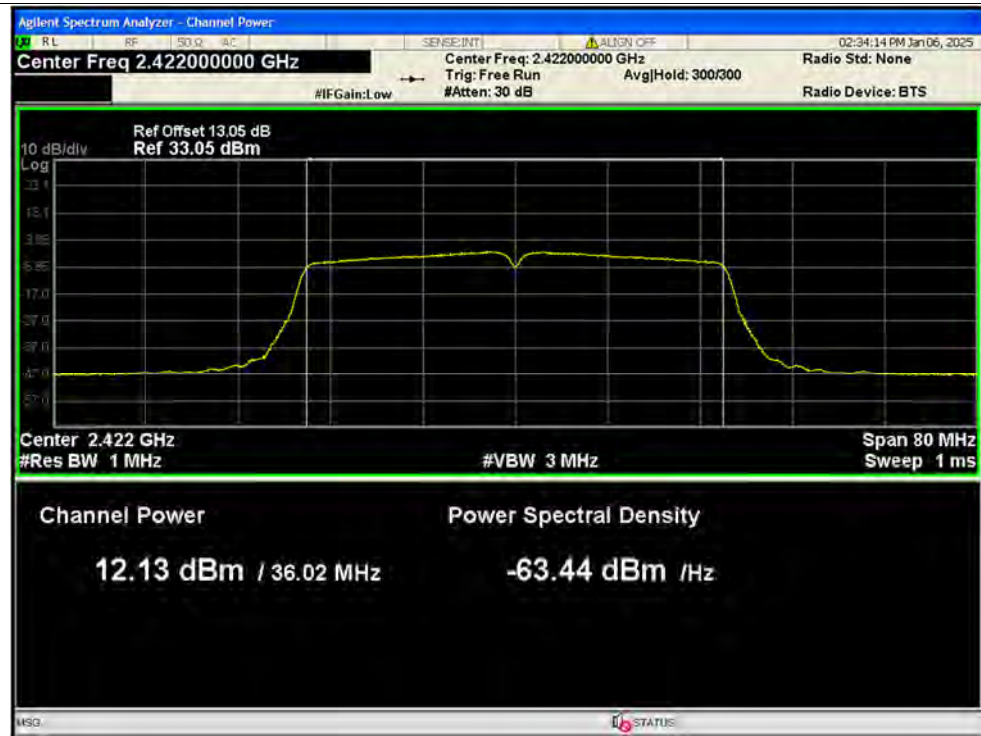


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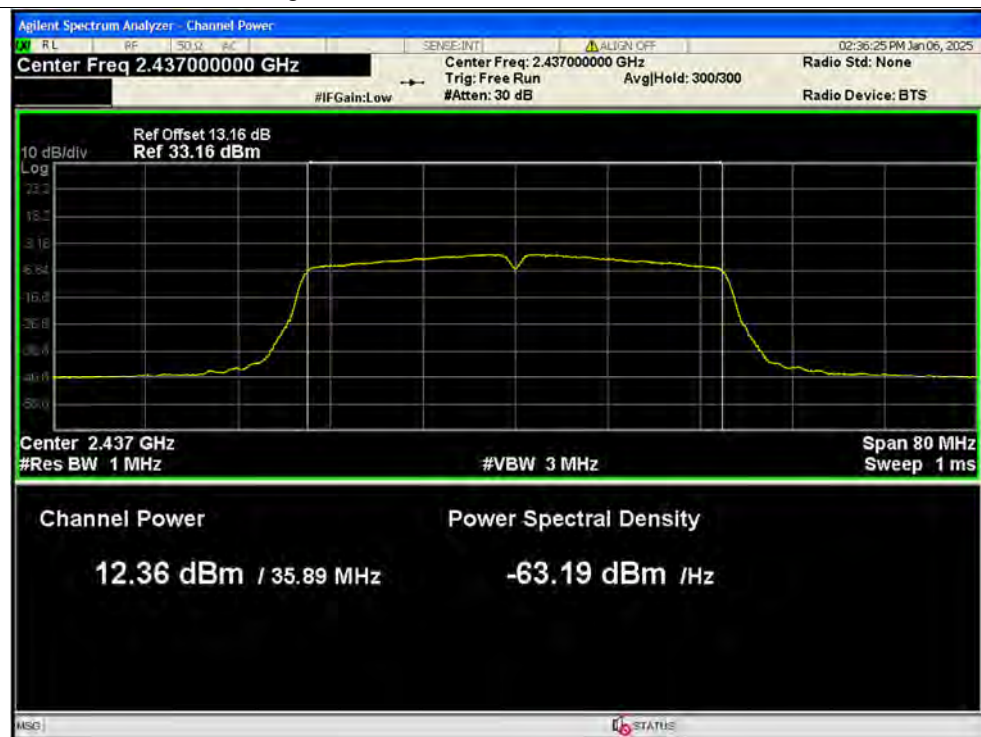




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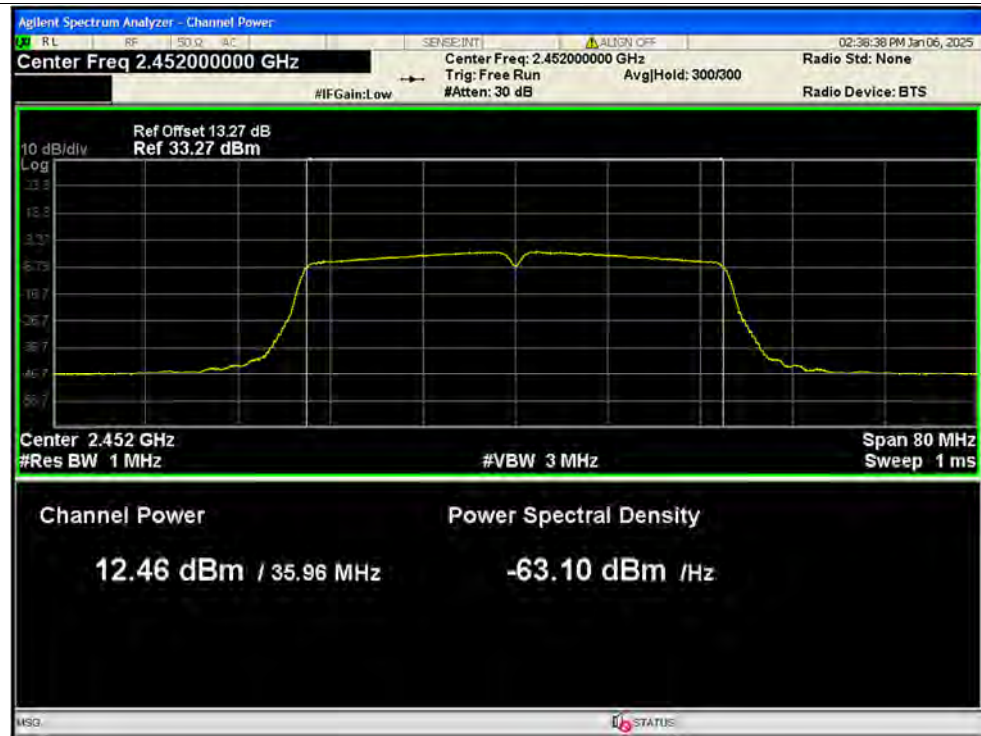


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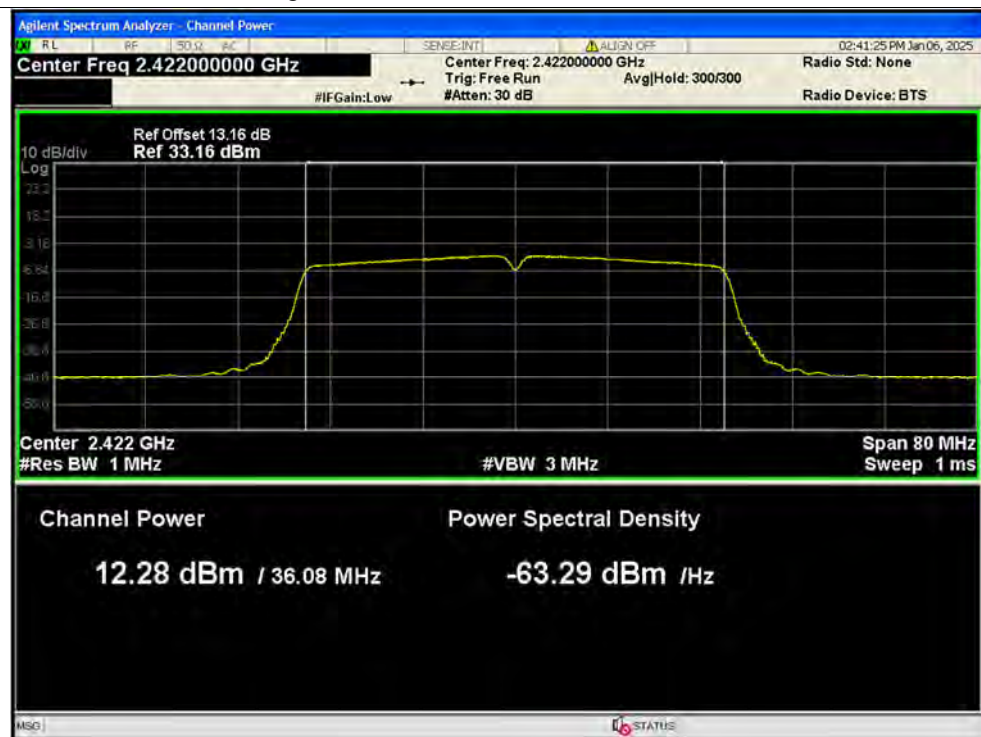




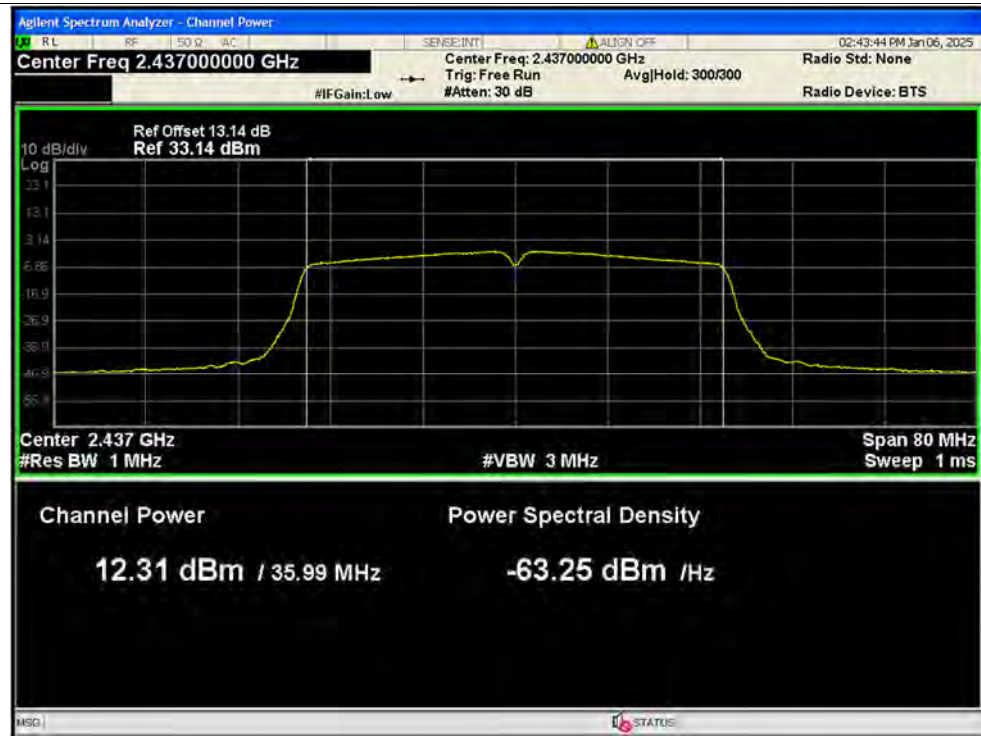
Average Power NVNT n40 2452MHz Ant0 SISO



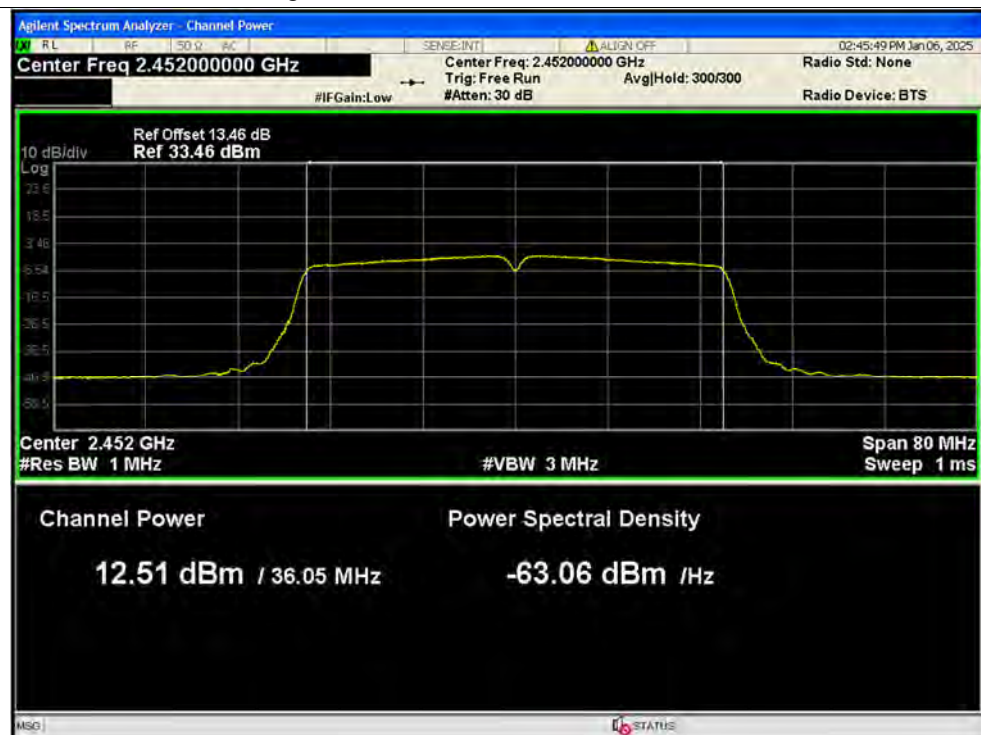
Average Power NVNT n40 2422MHz Ant1 SISO



Average Power NVNT n40 2437MHz Ant1 SISO

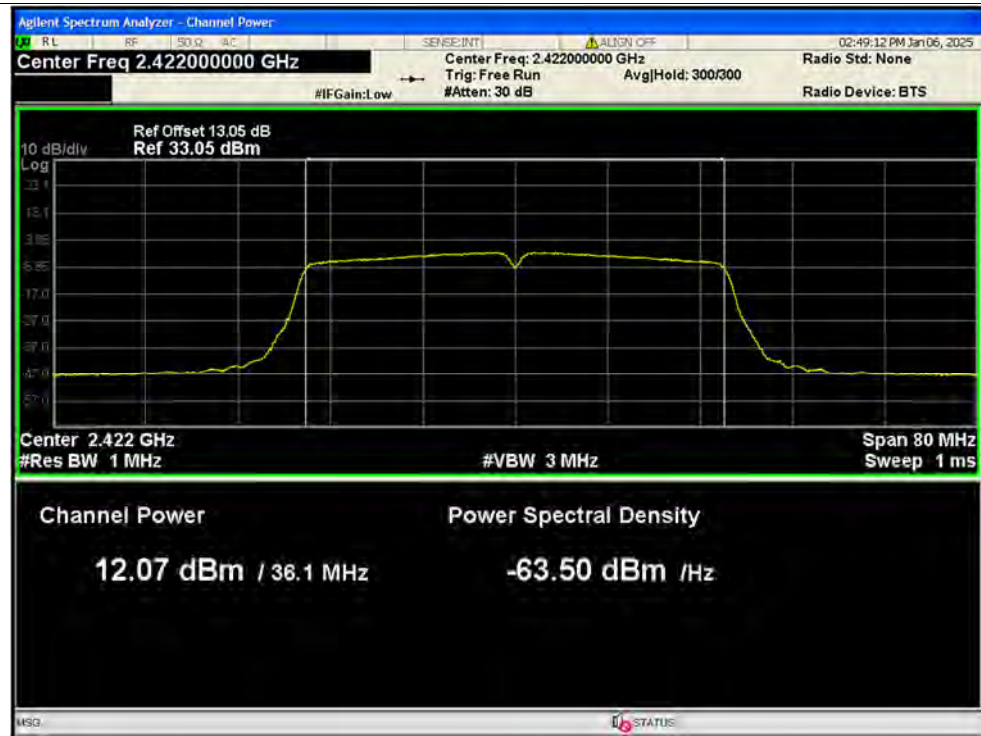


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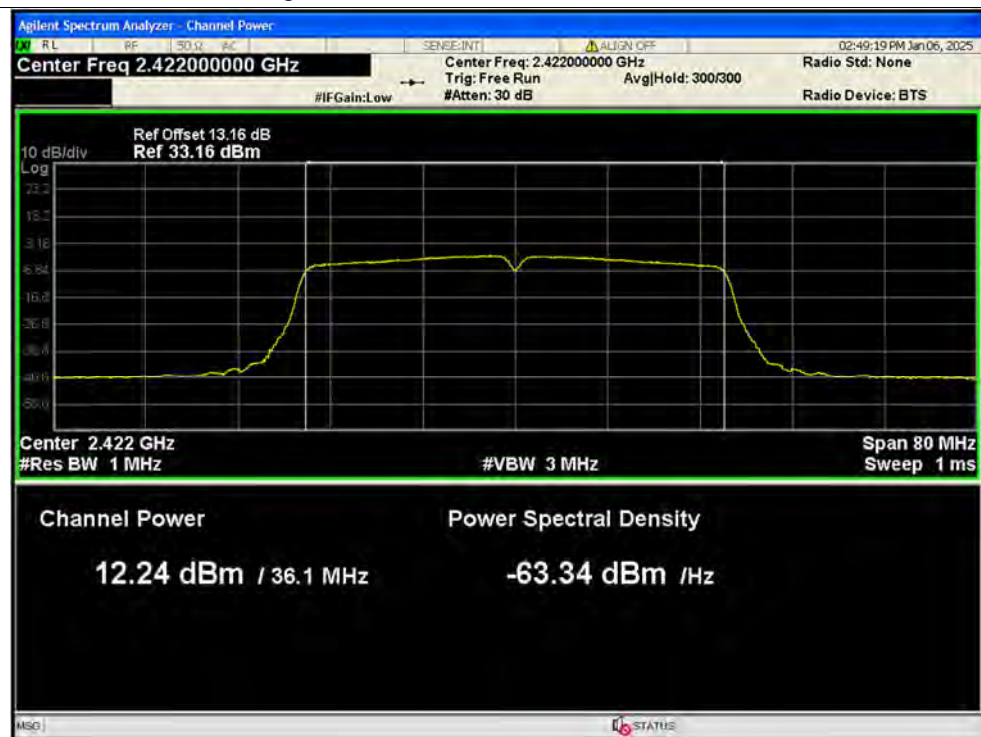




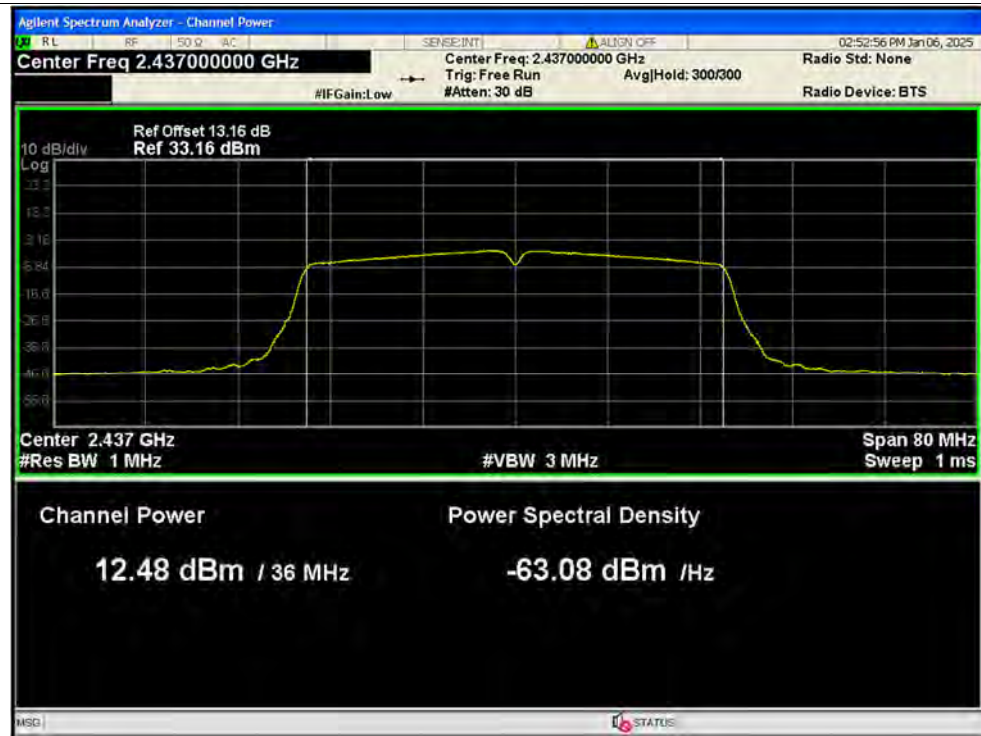
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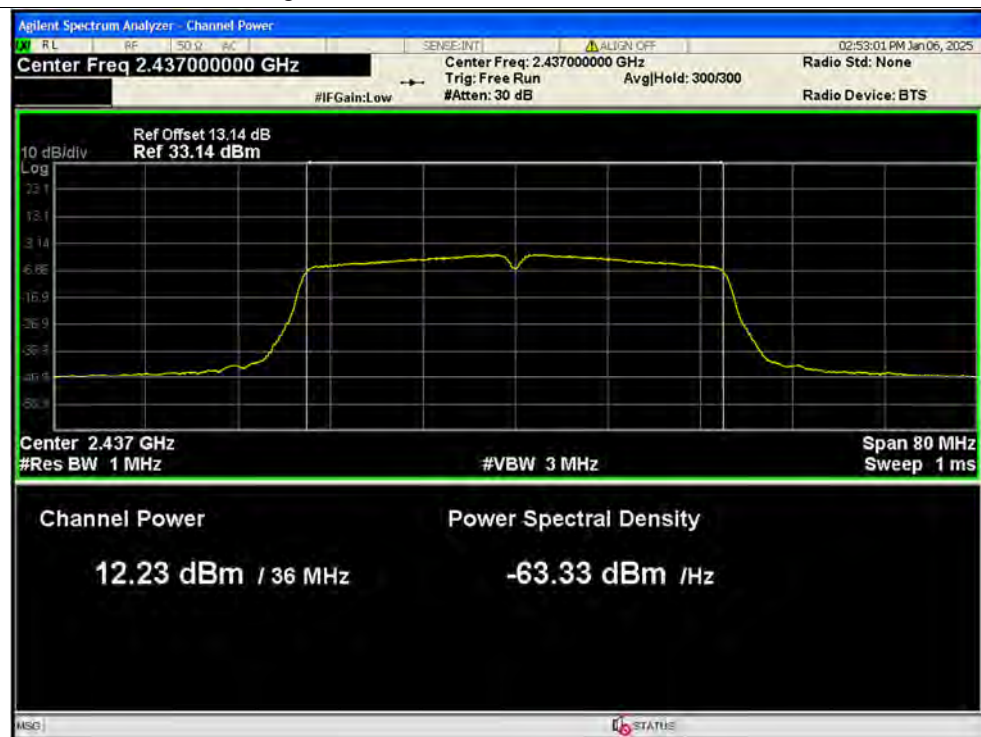
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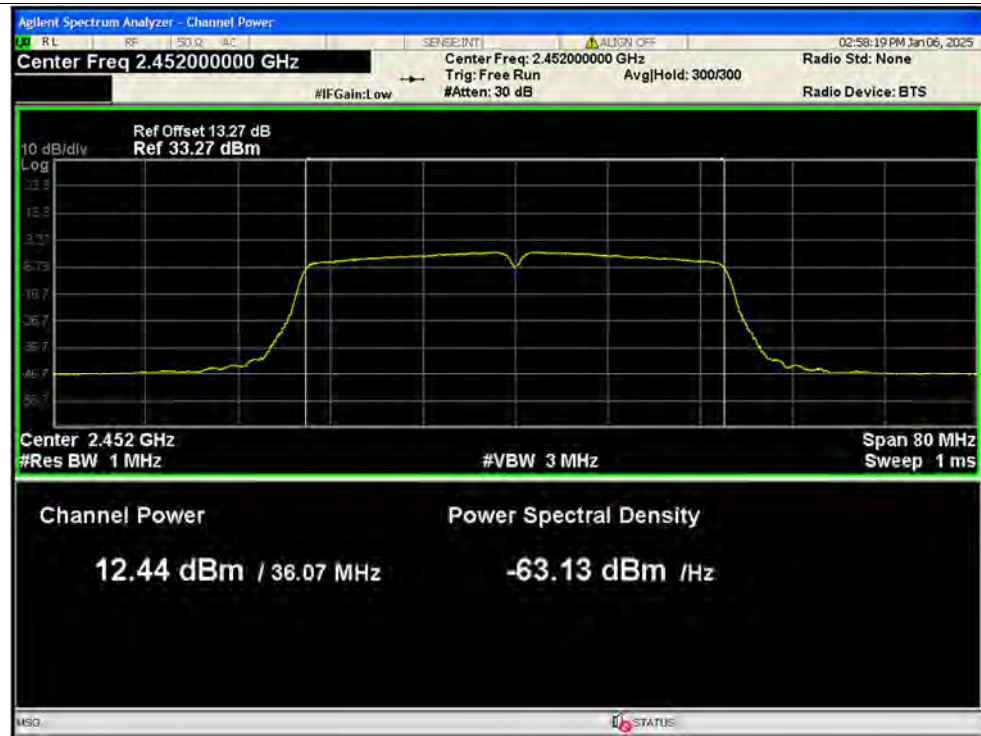
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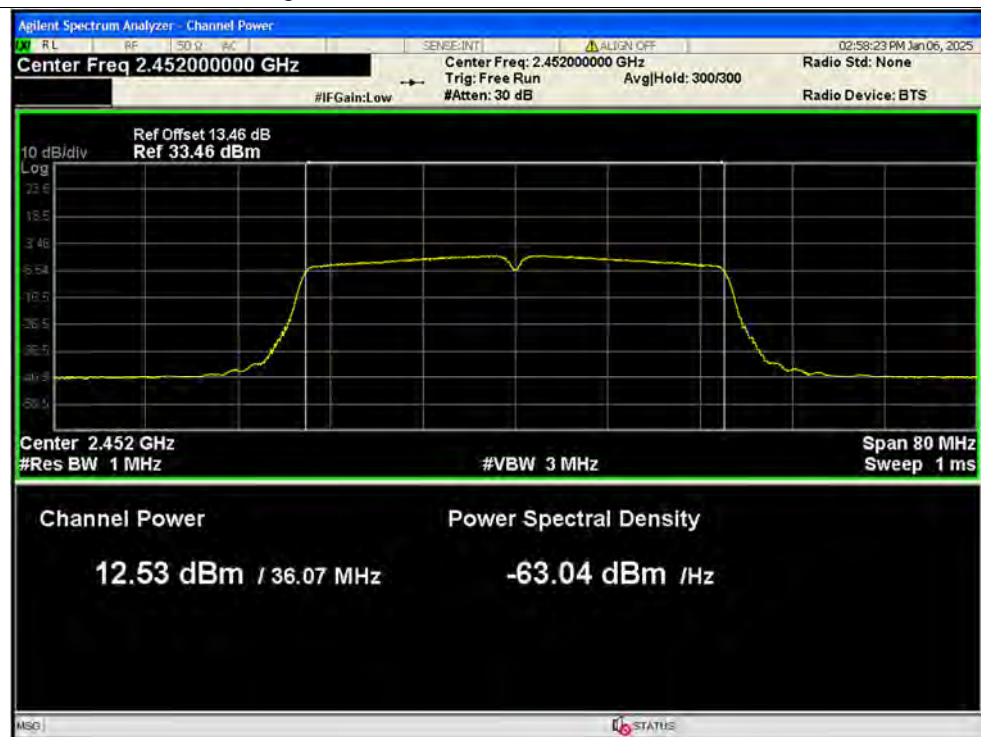
Average Power NVNT n40 2437MHz Ant1 MIMO



Average Power NVNT n40 2452MHz Ant0 MIMO



Average Power NVNT n40 2452MHz Ant1 MIMO



**A.4. 6 dB Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b SISO	2412	Ant0	9.071	0.5	Pass
NVNT	b SISO	2437	Ant0	9.068	0.5	Pass
NVNT	b SISO	2462	Ant0	9.048	0.5	Pass
NVNT	b SISO	2412	Ant1	9.058	0.5	Pass
NVNT	b SISO	2437	Ant1	9.067	0.5	Pass
NVNT	b SISO	2462	Ant1	9.059	0.5	Pass
NVNT	g SISO	2412	Ant0	15.13	0.5	Pass
NVNT	g SISO	2437	Ant0	15.46	0.5	Pass
NVNT	g SISO	2462	Ant0	15.11	0.5	Pass
NVNT	g SISO	2412	Ant1	15.11	0.5	Pass
NVNT	g SISO	2437	Ant1	15.07	0.5	Pass
NVNT	g SISO	2462	Ant1	13.88	0.5	Pass
NVNT	n20 SISO	2412	Ant0	15	0.5	Pass
NVNT	n20 SISO	2437	Ant0	15.01	0.5	Pass
NVNT	n20 SISO	2462	Ant0	15.09	0.5	Pass
NVNT	n20 SISO	2412	Ant1	14.19	0.5	Pass
NVNT	n20 SISO	2437	Ant1	13.88	0.5	Pass
NVNT	n20 SISO	2462	Ant1	15.12	0.5	Pass
NVNT	n20 MIMO	2412	Ant0	15.11	0.5	Pass
NVNT	n20 MIMO	2412	Ant1	15.71	0.5	Pass
NVNT	n20 MIMO	2437	Ant0	15.12	0.5	Pass
NVNT	n20 MIMO	2437	Ant1	15.67	0.5	Pass
NVNT	n20 MIMO	2462	Ant0	15.11	0.5	Pass
NVNT	n20 MIMO	2462	Ant1	15.11	0.5	Pass
NVNT	n40 SISO	2422	Ant0	35.11	0.5	Pass
NVNT	n40 SISO	2437	Ant0	35.08	0.5	Pass
NVNT	n40 SISO	2452	Ant0	35.1	0.5	Pass
NVNT	n40 SISO	2422	Ant1	35.1	0.5	Pass
NVNT	n40 SISO	2437	Ant1	35.08	0.5	Pass
NVNT	n40 SISO	2452	Ant1	35.11	0.5	Pass
NVNT	n40 MIMO	2422	Ant0	35.13	0.5	Pass
NVNT	n40 MIMO	2422	Ant1	35.1	0.5	Pass
NVNT	n40 MIMO	2437	Ant0	35.09	0.5	Pass
NVNT	n40 MIMO	2437	Ant1	35.07	0.5	Pass



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NVNT	n40 MIMO	2452	Ant0	35.1	0.5	Pass
NVNT	n40 MIMO	2452	Ant1	35.1	0.5	Pass



Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant0 SISO



-6dB Bandwidth NVNT b 2437MHz Ant0 SISO



-6dB Bandwidth NVNT b 2462MHz Ant0 SISO



-6dB Bandwidth NVNT b 2412MHz Ant1 SISO



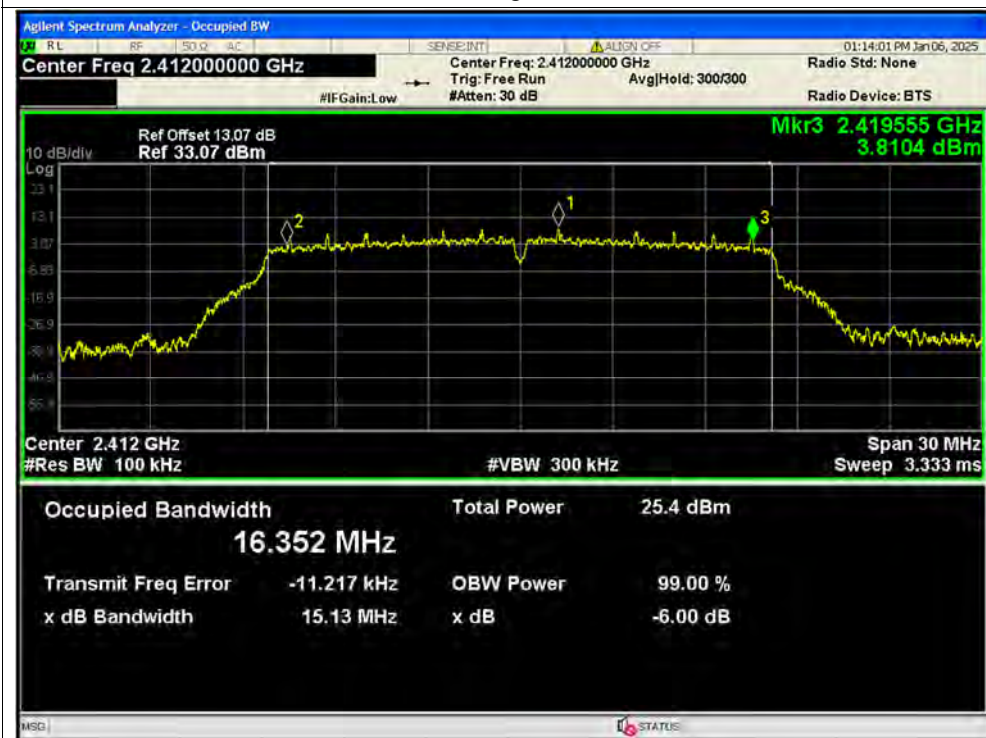
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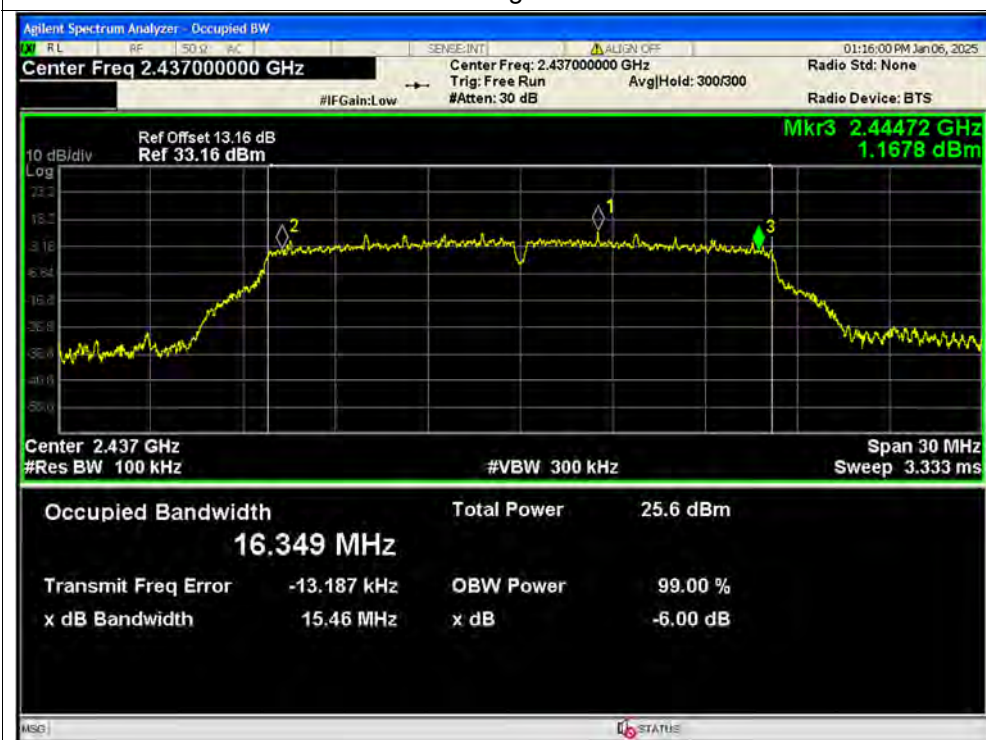
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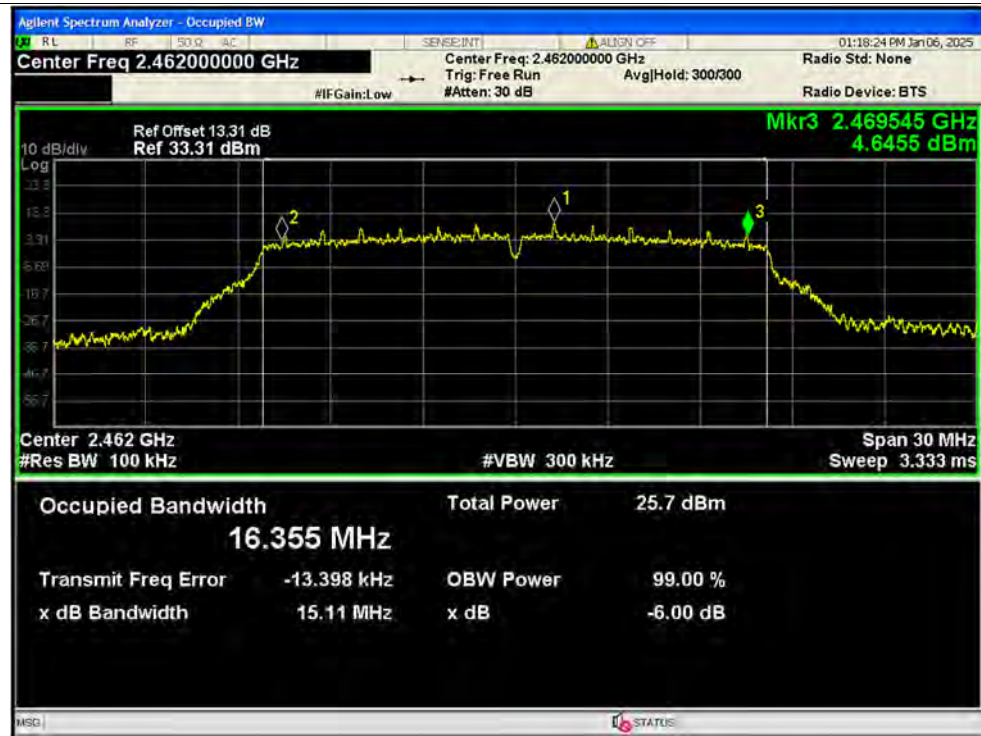
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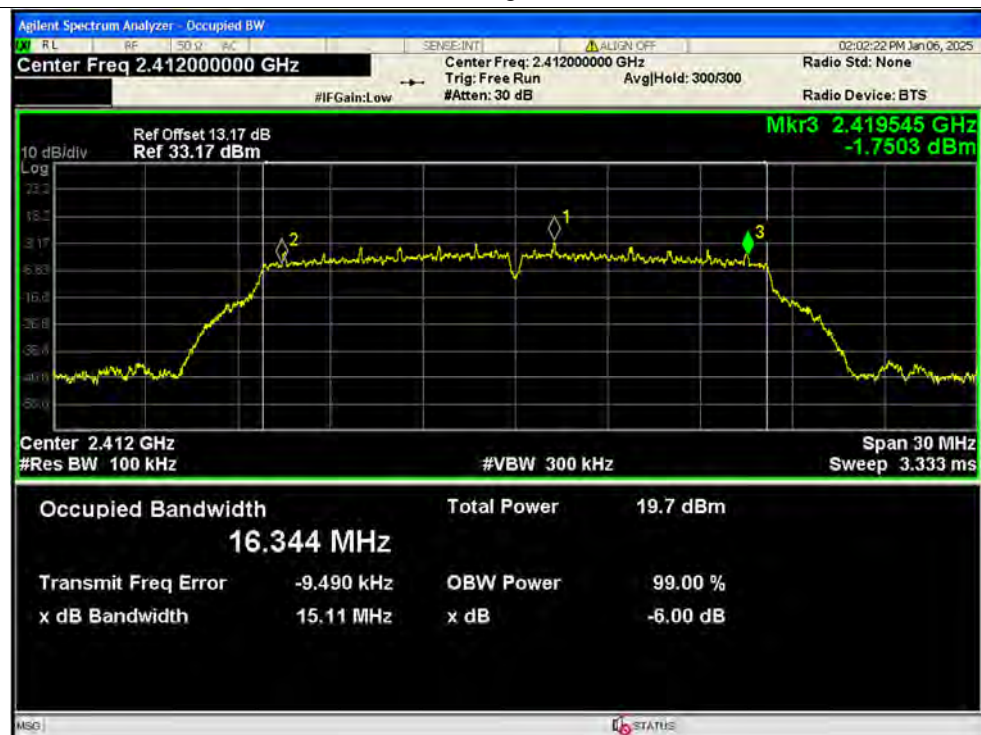
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-6dB Bandwidth NVNT g 2462MHz Ant0 SISO



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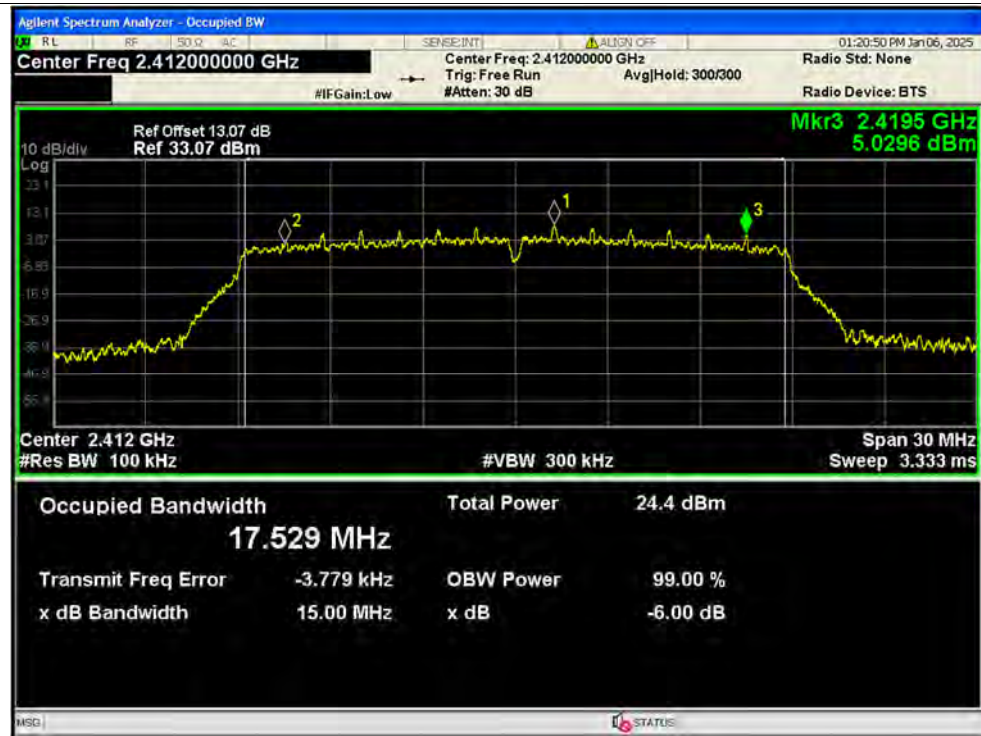
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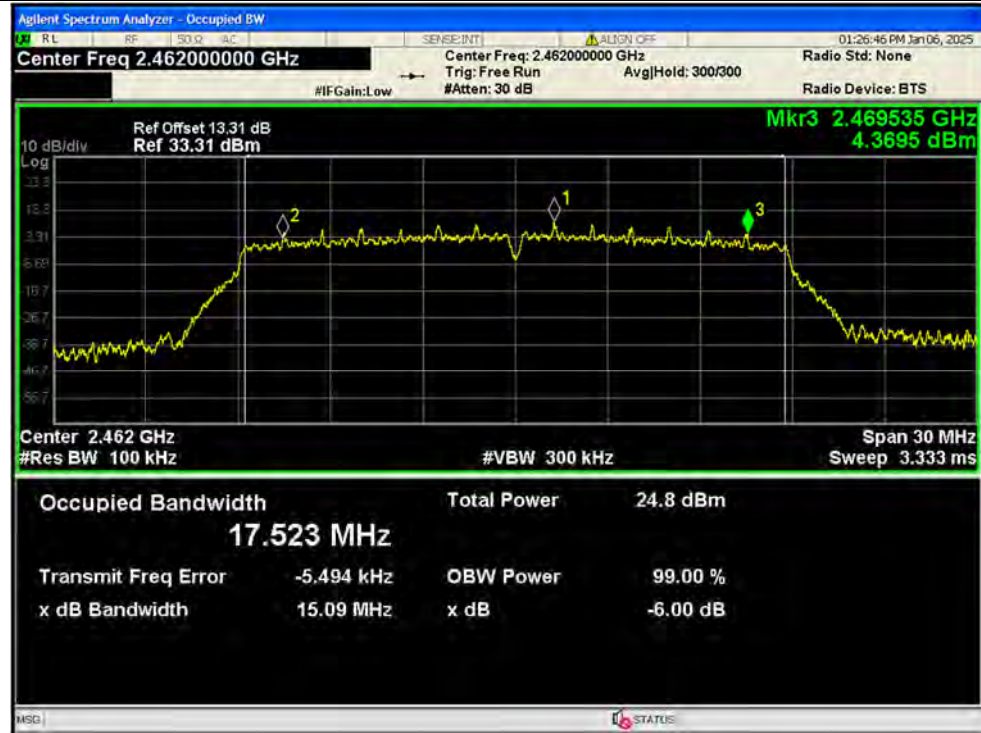
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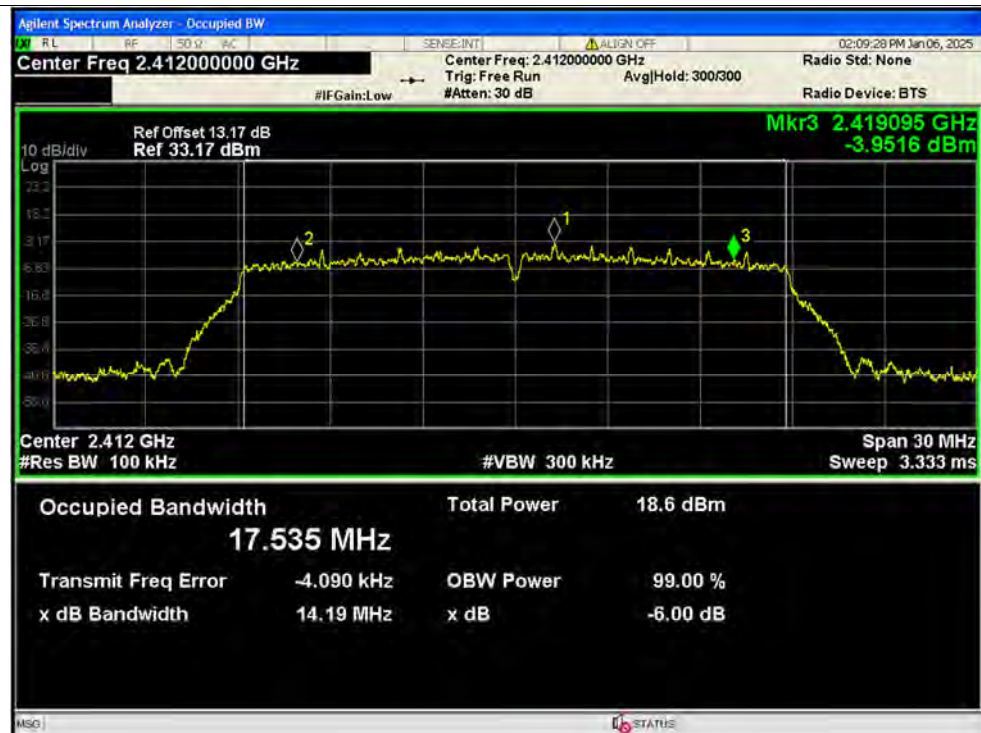
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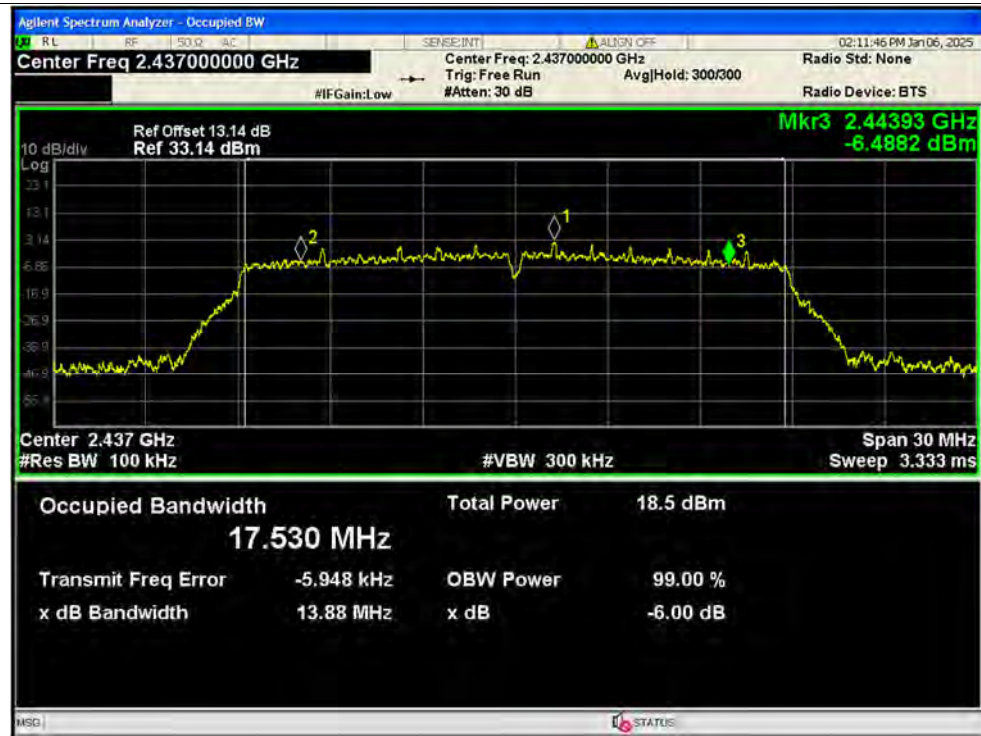
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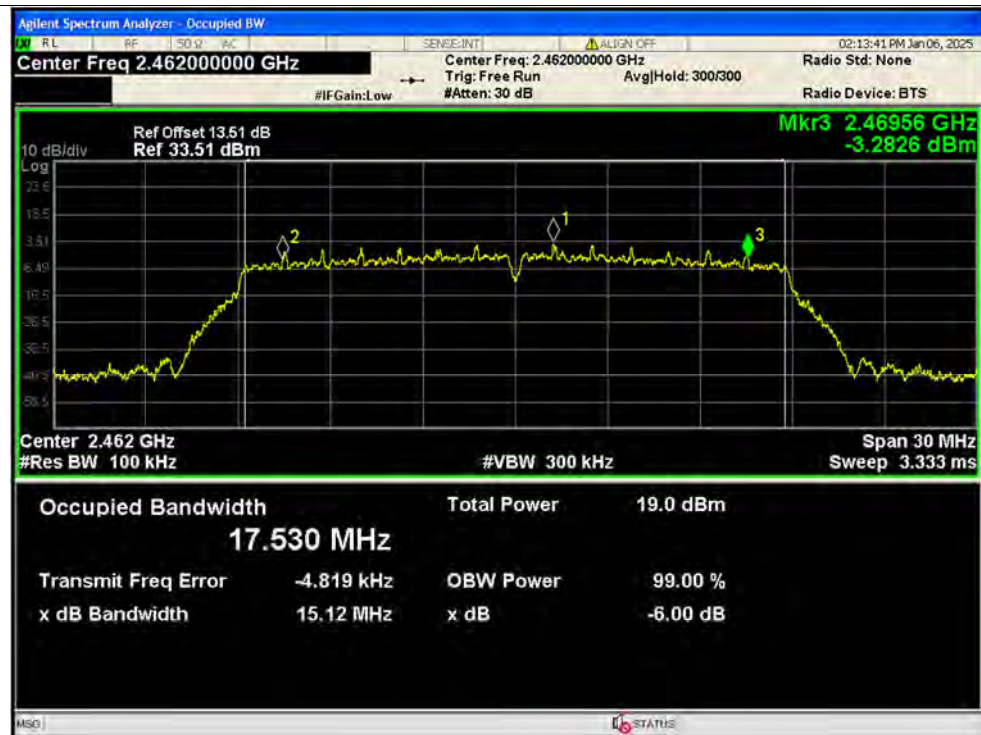
-6dB Bandwidth NVNT n20 2412MHz Ant1 SISO



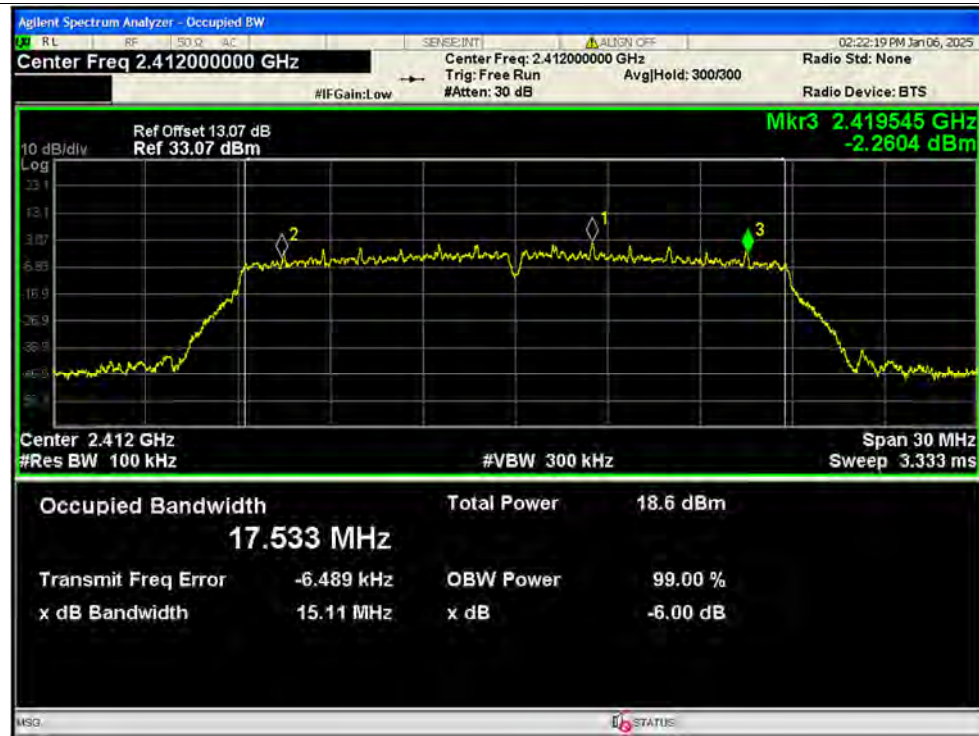
-6dB Bandwidth NVNT n20 2437MHz Ant1 SISO



-6dB Bandwidth NVNT n20 2462MHz Ant1 SISO



-6dB Bandwidth NVNT n20 2412MHz Ant0 MIMO



-6dB Bandwidth NVNT n20 2412MHz Ant1 MIMO

