



REPORT No.: SZ24030326W03

TEST REPORT

APPLICANT : Anker Innovations Limited

PRODUCT NAME : Nebula Capsule Air

MODEL NAME : D4112

BRAND NAME : NEBULA

FCC ID : 2AOKB-D4112

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2024-04-10

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Change History		
Version	Date	Reason for change
1.0	2024-05-20	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	Apr. 20, 2024	He Yuyang	PASS	No deviation
3	15.247(b)	Maximum Peak Conducted Output Power	Apr. 20, 2024	He Yuyang	PASS	No deviation
4	15.247(b)	Maximum Average Conducted Output Power	Apr. 20, 2024	He Yuyang	PASS	No deviation
5	15.247(a)	Bandwidth	Apr. 20, 2024	He Yuyang	PASS	No deviation
6	15.247(d)	Conducted Spurious Emission and Band Edge	Apr. 20, 2024	He Yuyang	PASS	No deviation
7	15.247(e)	Power Spectral Density	Apr. 20, 2024	He Yuyang	PASS	No deviation
8	15.207	Conducted Emission	Apr. 29, 2024	Wang Deyong	PASS	No deviation
9	15.247(d)	Restricted Frequency Bands	May 01 to 04, 2024	Gao Jianrou	PASS	No deviation
10	15.209, 15.247(d)	Radiated Emission	May 01 to 04, 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 Name	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	2023.10.17	2024.10.16
Attenuator	MTJ6004-20	VAT-10+	MTJ Cooperation	N/A	N/A
RF Cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
Coaxial Cable	CB02	RF02	Morlab	N/A	N/A
SMA Connector	CN01	RF03	HUBER-SUHNER	N/A	N/A

1.2.2 Conducted Emission Test Equipment

Equipment Name	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	2023.06.27	2024.06.26
RF Coaxial Cable (DC-100MHz)	BNC	MRE04	Qualwave	N/A	N/A

1.2.3 List of Software Used

Description	Manufacturer	Software Version
Test System	MaiWei	2.0.0.0
Morlab EMCR	Morlab	V1.2
TS+ -[JS32-CE]	Tonscend	V2.5.0.0

**1.2.4 Radiated Test Equipment**

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY54130016	N9038A	Agilent	2023.06.21	2024.06.20
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2023.07.01	2024.06.30
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2023.06.26	2024.06.25
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2023.07.01	2024.06.30
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2023.07.01	2024.06.30
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2023.06.27	2024.06.26
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2023.06.27	2024.06.26
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2023.07.04	2024.07.03
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2023.06.27	2024.06.26
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2023.06.27	2024.06.26
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2023.06.27	2024.06.26
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-K K-0.5	Qualwave	2023.07.04	2024.07.03
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-K KF-2	Qualwave	2023.07.04	2024.07.03
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-N N-5	Qualwave	2023.07.04	2024.07.03
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
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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	Room 1318-19,Hollywood Plaza,610 Nathan Road,Mongkok,Kowloon,Hong Kong
Manufacturer	Anker Innovations Limited
Manufacturer Address	Room 1318-19,Hollywood Plaza,610 Nathan Road,Mongkok,Kowloon,Hong Kong

2.2. Information of EUT

Product Name:	Nebula Capsule Air	
Sample No.:	1#	
Hardware Version:	V3	
Software Version:	V11.0.43.2	
Modulation Technology:	DSSS, OFDM	
Modulation Type:	Refer to section1.3	
Wireless Technology:	802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40)	
Operating Frequency Range:	2412MHz–2462MHz	
Antenna Type:	FPC Antenna	
Antenna Gain:	ANT 1: 3.05dBi; ANT 2: 2.20dBi	
Directional Gain:	5.65dBi Note 2	
Accessory Information:	Battery	
	Brand Name:	N/A
	Model No.:	LR21700SD-2S1P
	Serial No.:	N/A
	Capacity:	4650mAh
	Rated Voltage:	7.2V
	Charge Limit:	8.4V
	Manufacturer:	Guangdong Pow-Tech New Power Co., Ltd.



Accessory Information:	AC Adapter	
	Brand Name:	N/A
	Model No.:	NSA45EU-20022500
	Serial No.:	N/A
	Rated Output:	5V=3A, 9V=3A, 12V=3A, 15V=3A, 20V=2.25A
	Rated Input:	100-240V~50/60Hz, 1.2A
	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: According to KDB 662911 D01, the directional gain = $10\log[(10^{G0/20} + 10^{G1/20})^2/2] = 5.65\text{dBi}$.

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(ANT 1) 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	RU Size
802.11b	20	DSSS	DBPSK	1/2/5.5/11Mbps	N/A
			DQPSK		
			CCK		
802.11g	20	OFDM	BPSK	6/9/12/18/24/36/48/54 Mbps	N/A
			QPSK		
			16QAM		
			64QAM		
802.11n	20/40 (HT20/40)	OFDM	BPSK	MCS0~MCS7	N/A
			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.

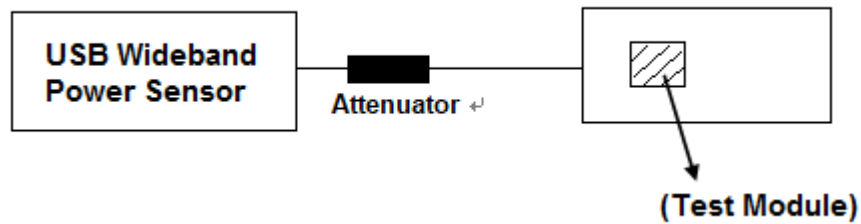
2.5. Test Conditions

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

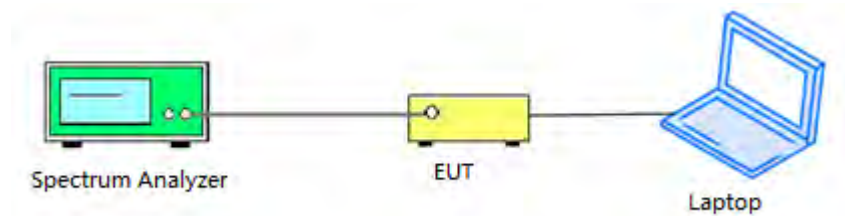
2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement

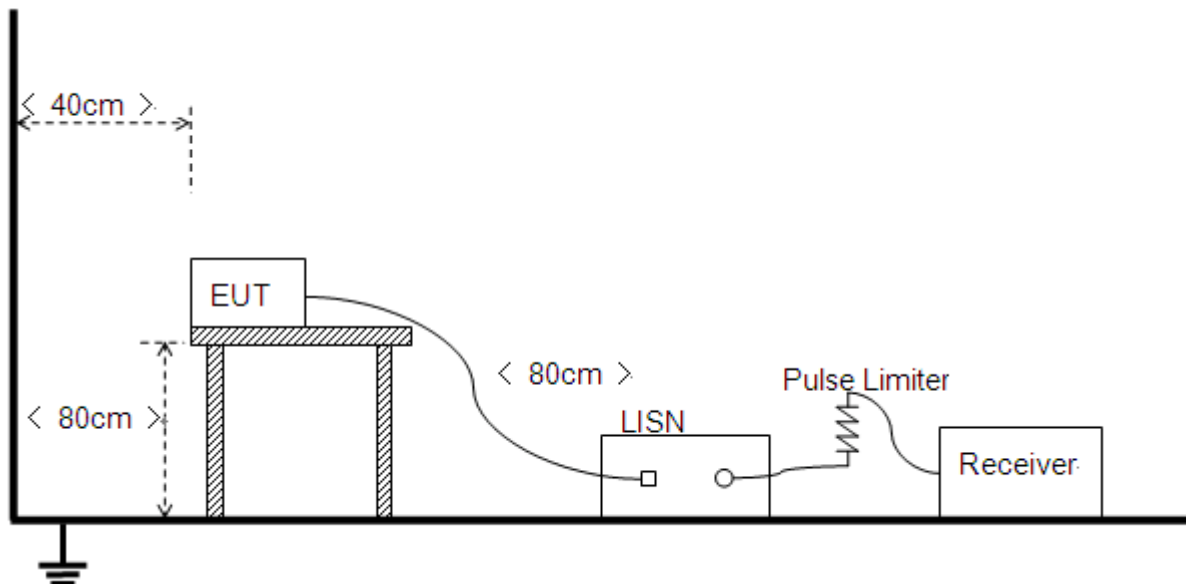
Power item



Other items

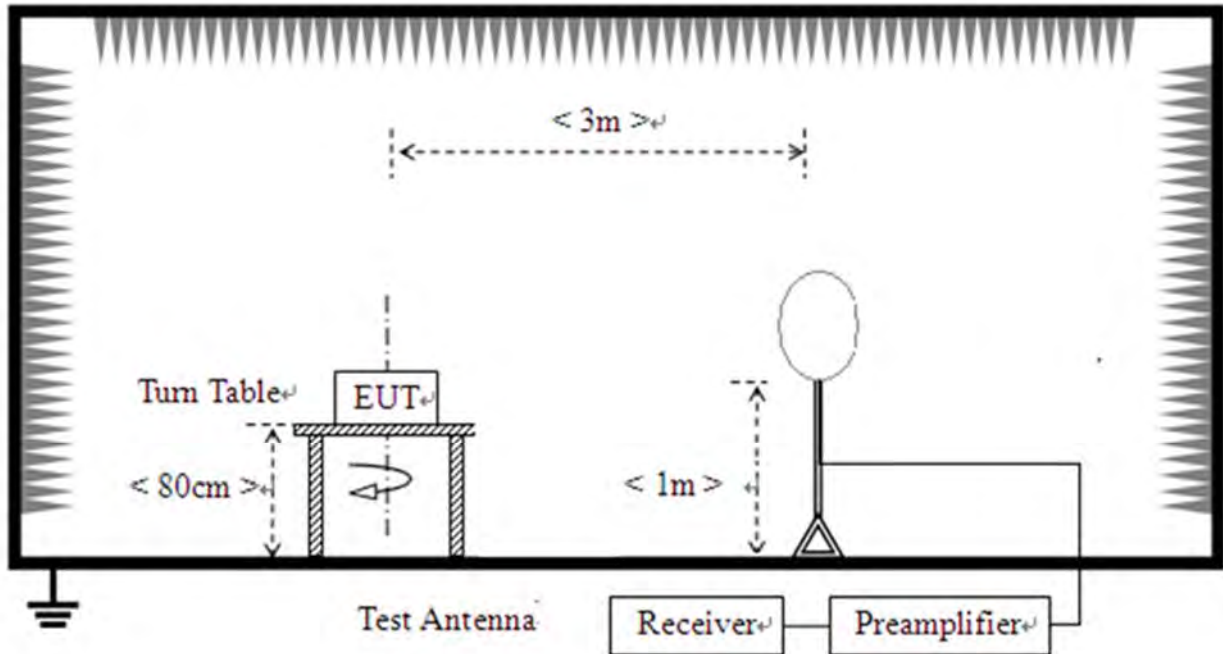


2.6.2. Conducted Emission Measurement

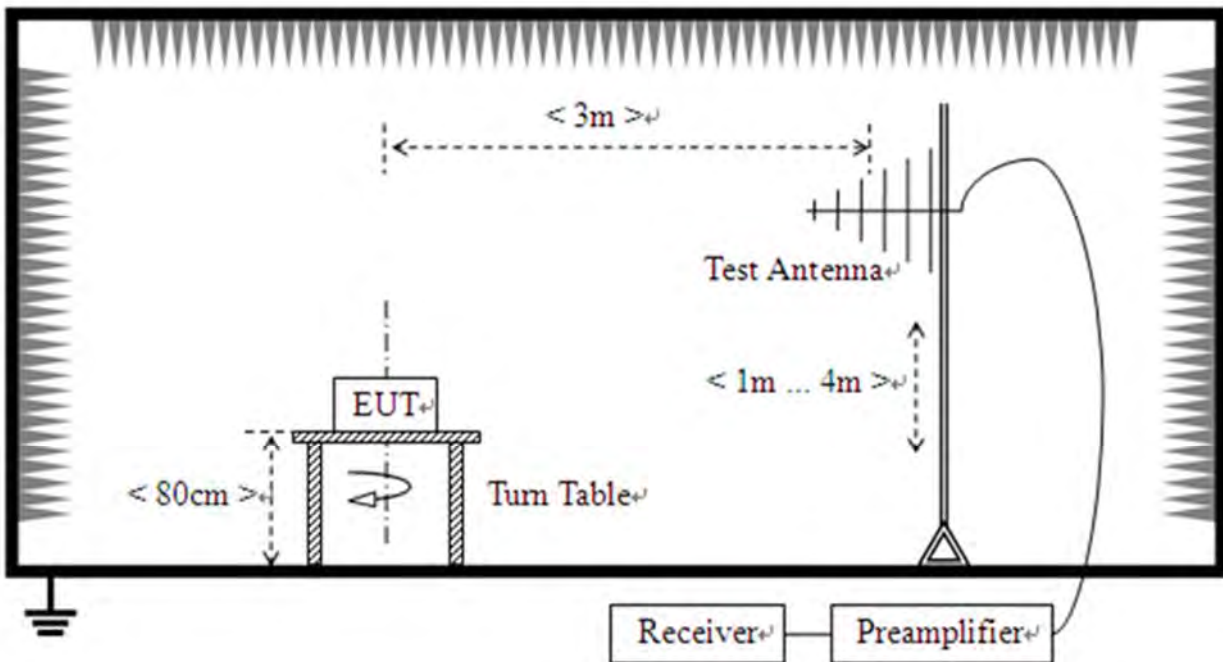


2.6.3.Radiation Measurement

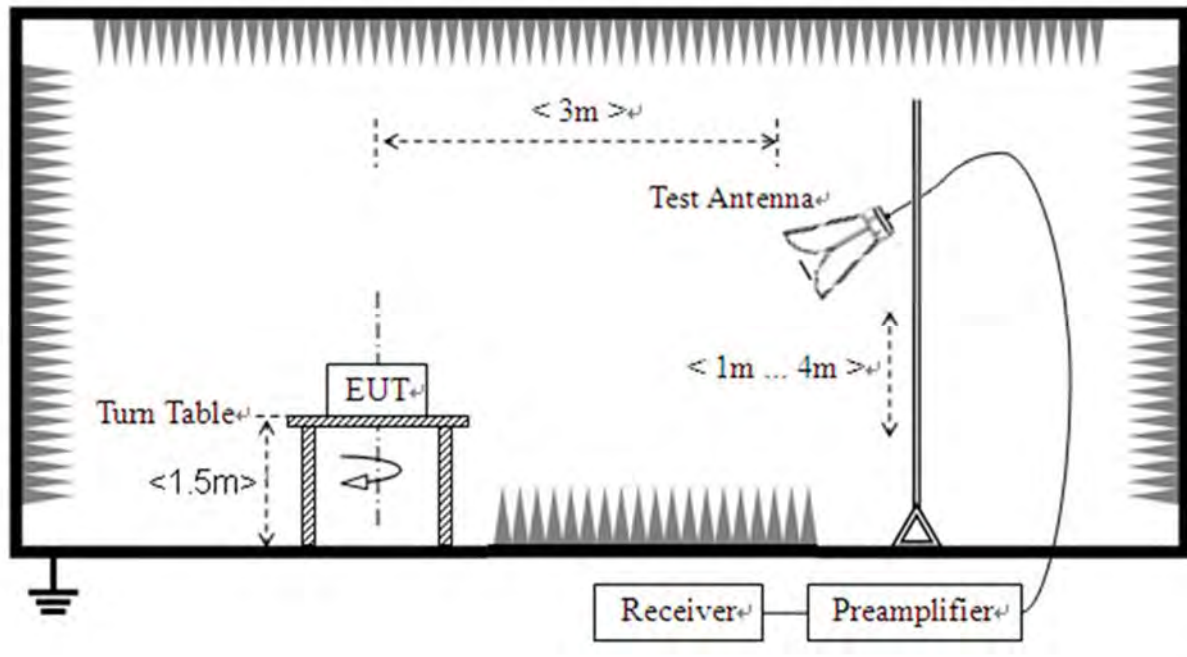
1) For radiated emissions from 9kHz to 30MHz



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

Inside of the EUT has a PIFA antenna coupled with the metal shrapnel. Please refer to the EUT photos.



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 3 meters. 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

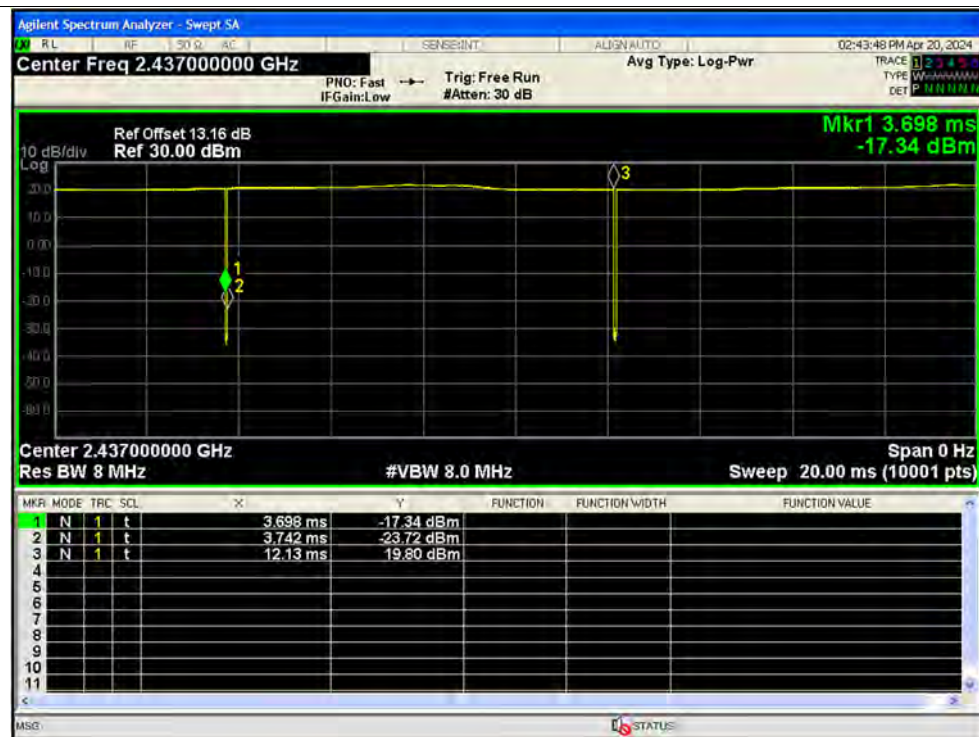
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b SISO	2412	Ant1	99.45	0.02	0.12
NVNT	b SISO	2437	Ant1	99.48	0.02	0.12
NVNT	b SISO	2462	Ant1	99.48	0.02	0.12
NVNT	b SISO	2412	Ant2	99.45	0.02	0.12
NVNT	b SISO	2437	Ant2	99.45	0.02	0.12
NVNT	b SISO	2462	Ant2	99.45	0.02	0.12
NVNT	g SISO	2412	Ant1	96.54	0.15	0.72
NVNT	g SISO	2437	Ant1	96.54	0.15	0.72
NVNT	g SISO	2462	Ant1	96.4	0.16	0.72
NVNT	g SISO	2412	Ant2	96.4	0.16	0.72
NVNT	g SISO	2437	Ant2	96.54	0.15	0.72
NVNT	g SISO	2462	Ant2	96.54	0.15	0.72
NVNT	n20 SISO	2412	Ant1	96.3	0.16	0.77
NVNT	n20 SISO	2437	Ant1	96.16	0.17	0.77
NVNT	n20 SISO	2462	Ant1	96.16	0.17	0.77
NVNT	n20 SISO	2412	Ant2	96.16	0.17	0.77
NVNT	n20 SISO	2437	Ant2	96.16	0.17	0.77
NVNT	n20 SISO	2462	Ant2	96.16	0.17	0.77
NVNT	n20 MIMO	2412	Sum	96.16	0.17	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	Ant1	92.86	0.32	1.54
NVNT	n40 SISO	2437	Ant1	92.57	0.34	1.54
NVNT	n40 SISO	2452	Ant1	92.59	0.33	1.54
NVNT	n40 SISO	2422	Ant2	92.59	0.33	1.54
NVNT	n40 SISO	2437	Ant2	92.57	0.34	1.54
NVNT	n40 SISO	2452	Ant2	92.57	0.34	1.54
NVNT	n40 MIMO	2422	Sum	92.86	0.32	1.54
NVNT	n40 MIMO	2437	Sum	92.86	0.32	1.54
NVNT	n40 MIMO	2452	Sum	92.86	0.32	1.54

Test Graphs

Duty Cycle NVNT b 2412MHz Ant1 SISO

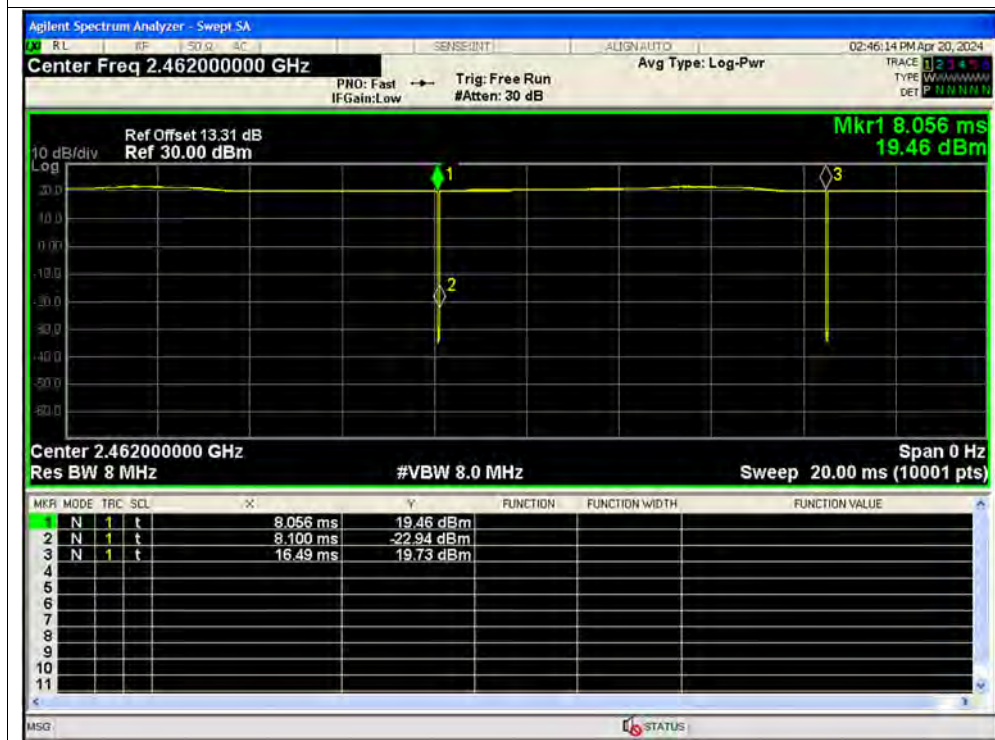


Duty Cycle NVNT b 2437MHz Ant1 SISO

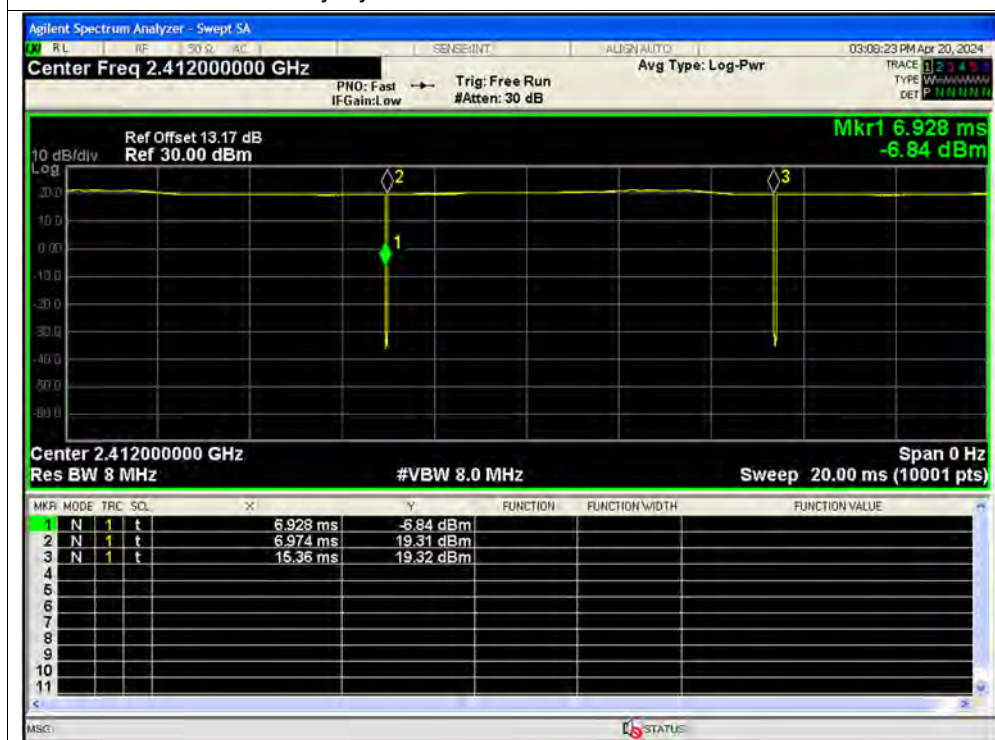




Duty Cycle NVNT b 2462MHz Ant1 SISO



Duty Cycle NVNT b 2412MHz Ant2 SISO





Duty Cycle NVNT b 2437MHz Ant2 SISO

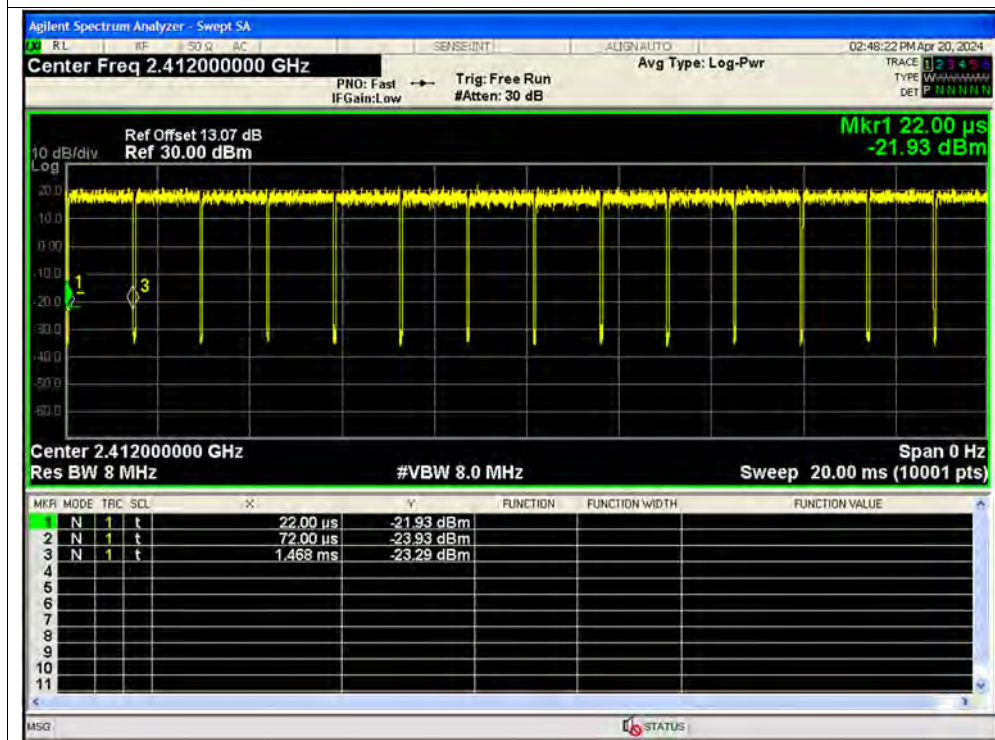


Duty Cycle NVNT b 2462MHz Ant2 SISO

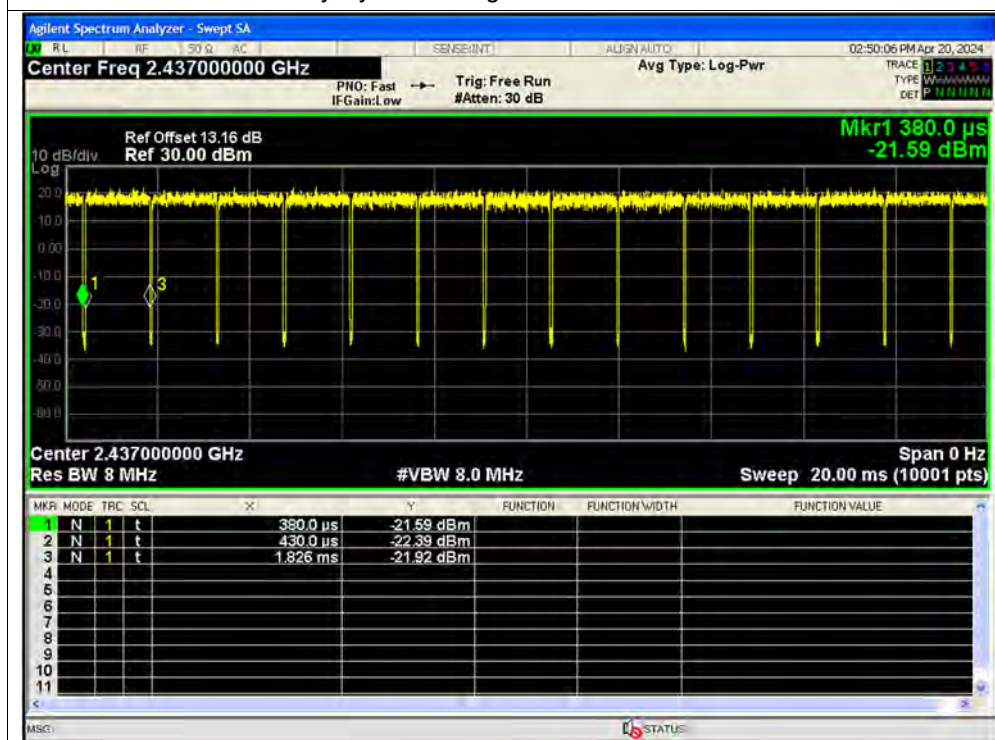




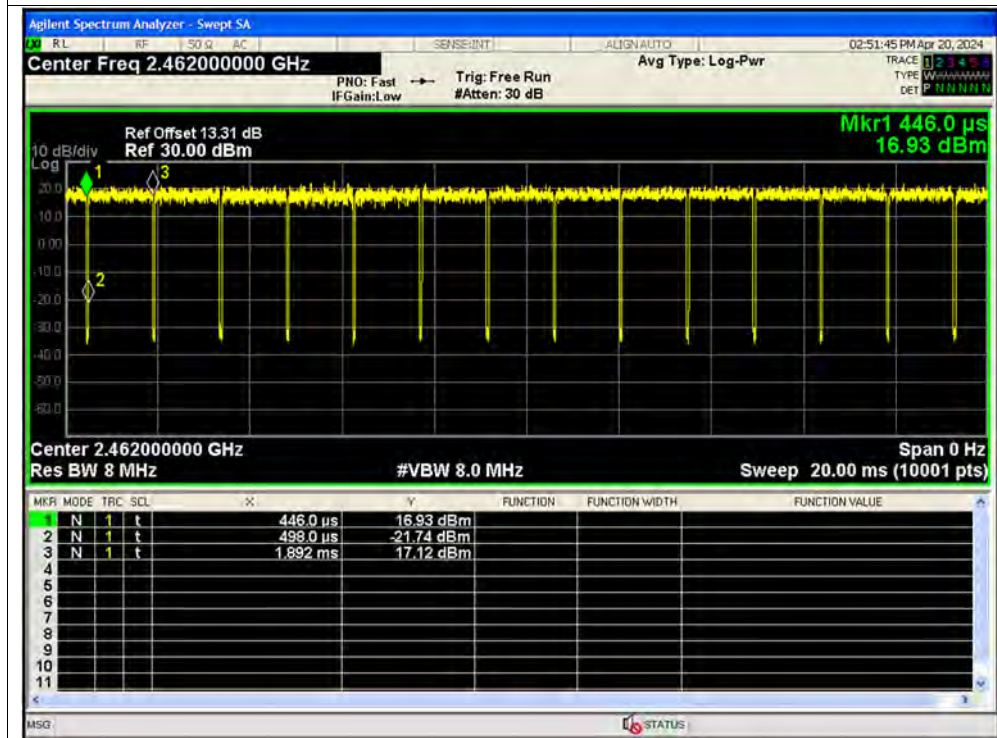
Duty Cycle NVNT g 2412MHz Ant1 SISO



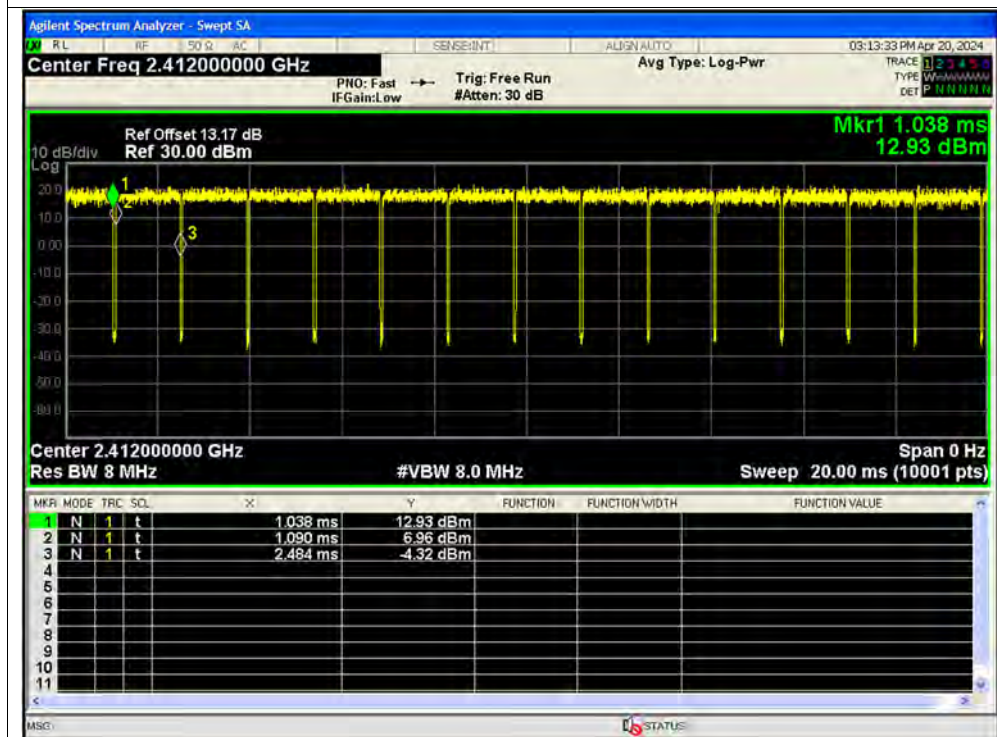
Duty Cycle NVNT g 2437MHz Ant1 SISO



Duty Cycle NVNT g 2462MHz Ant1 SISO

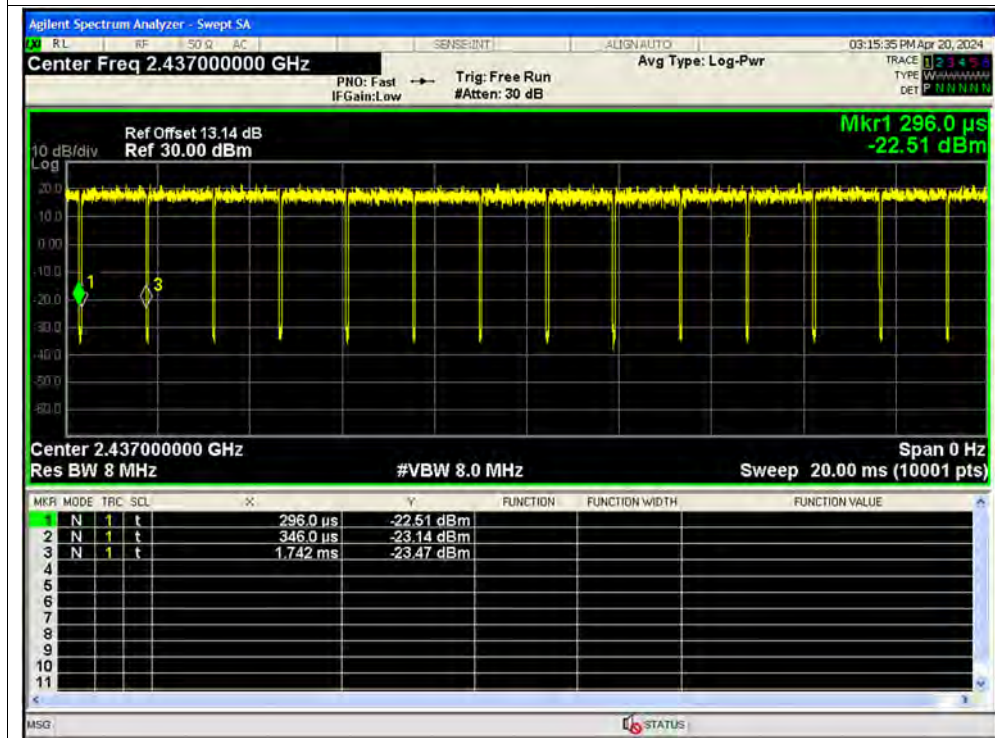


Duty Cycle NVNT g 2412MHz Ant2 SISO

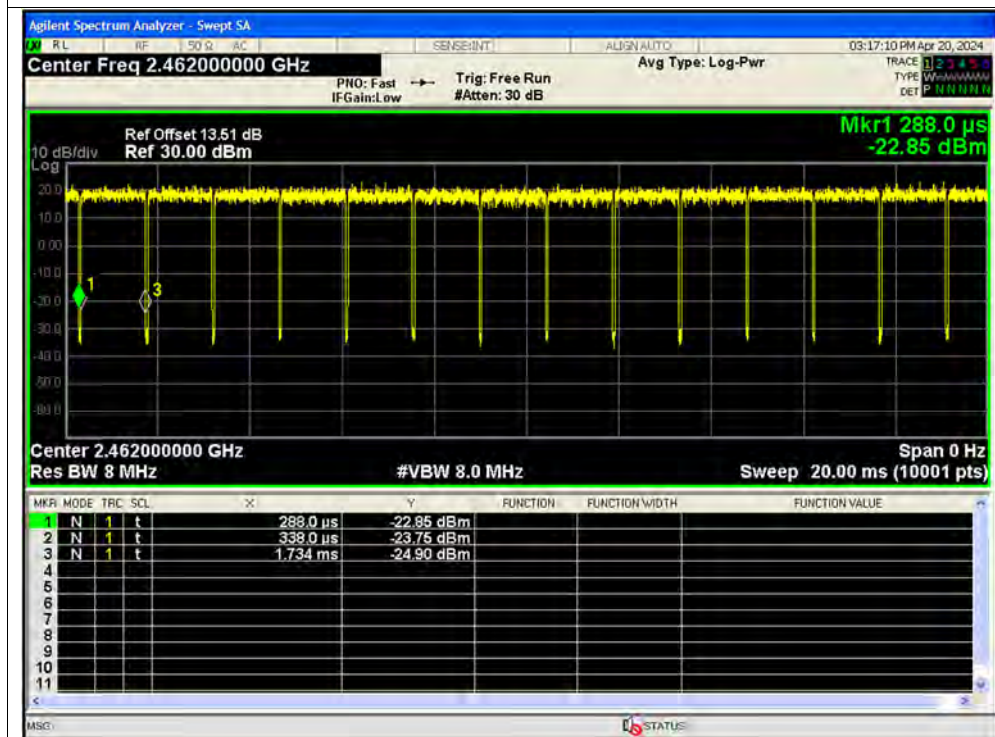




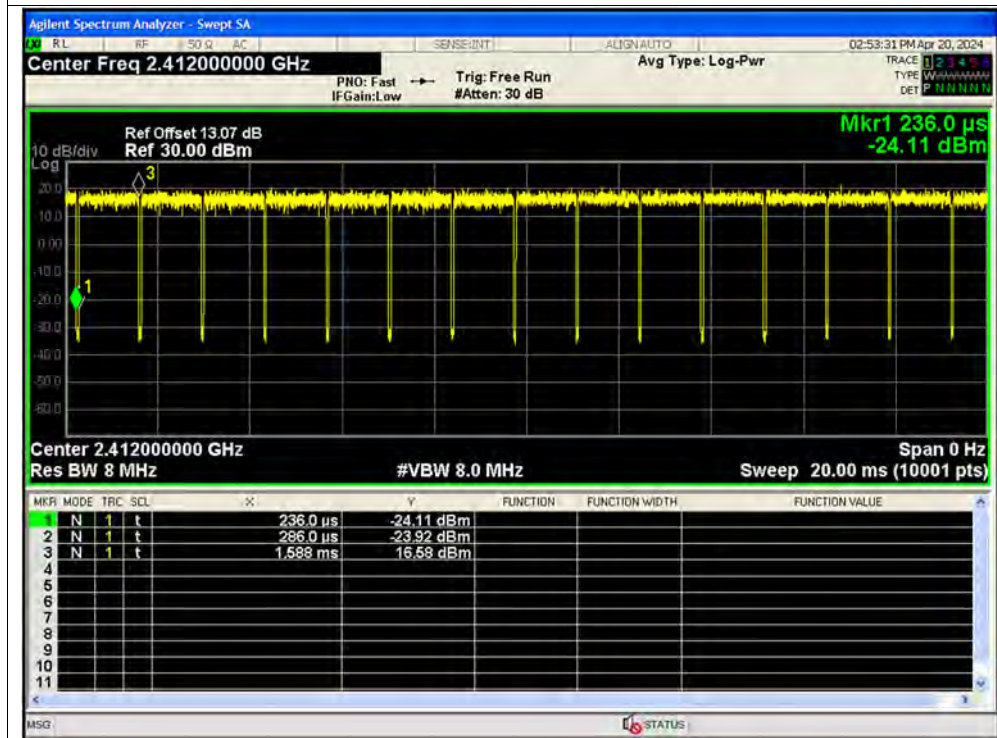
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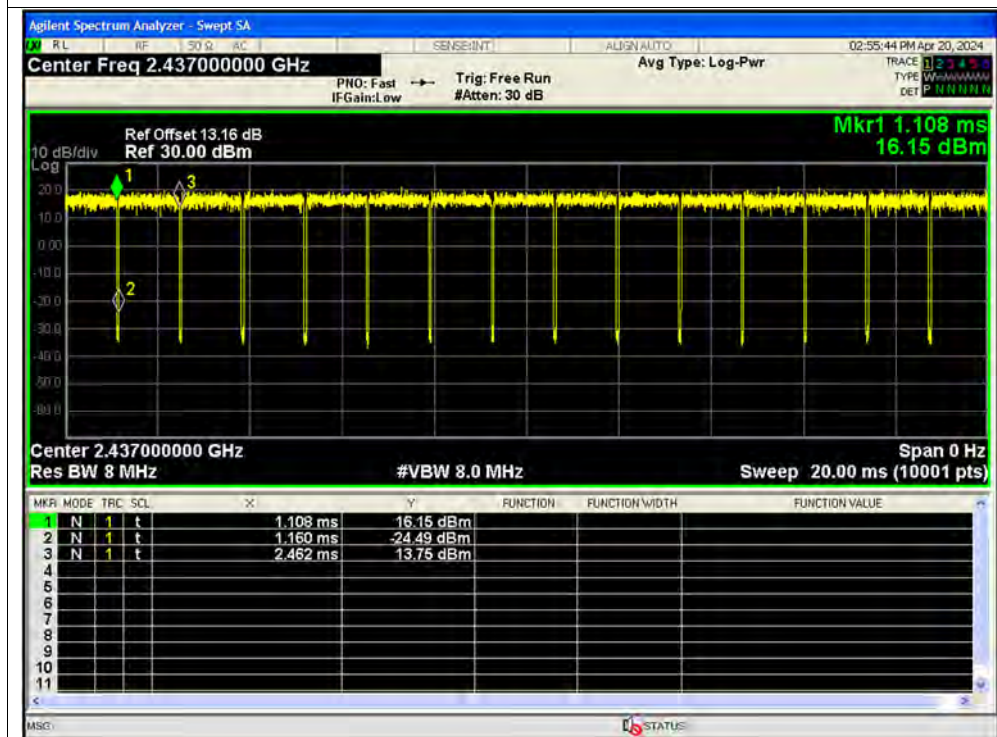
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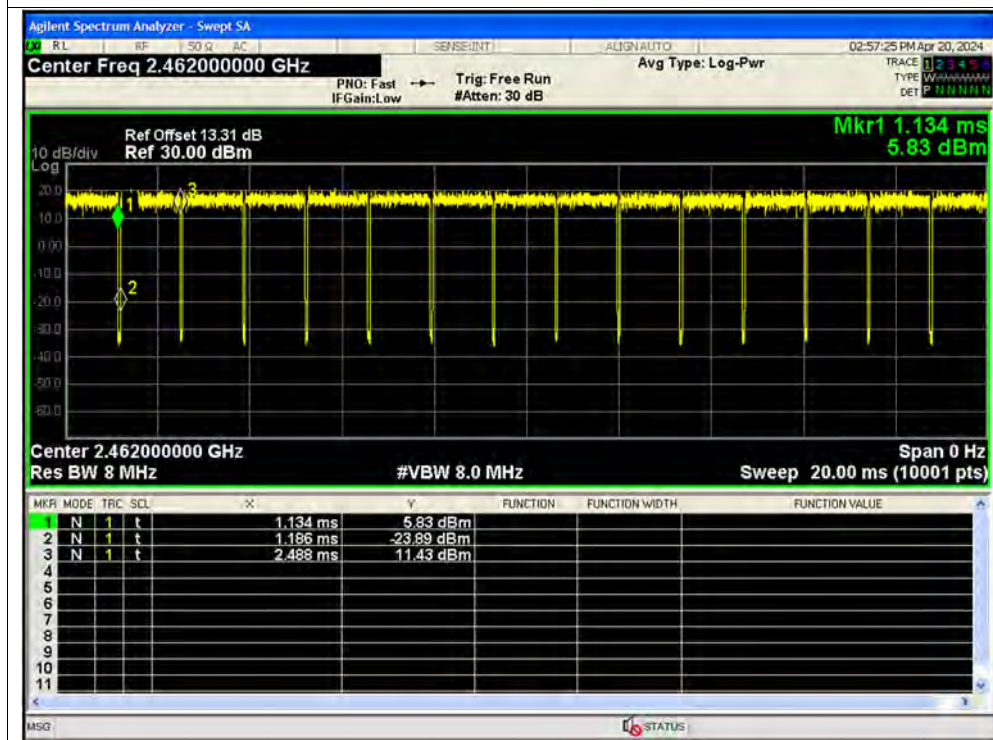
Duty Cycle NVNT n20 2412MHz Ant1 SISO



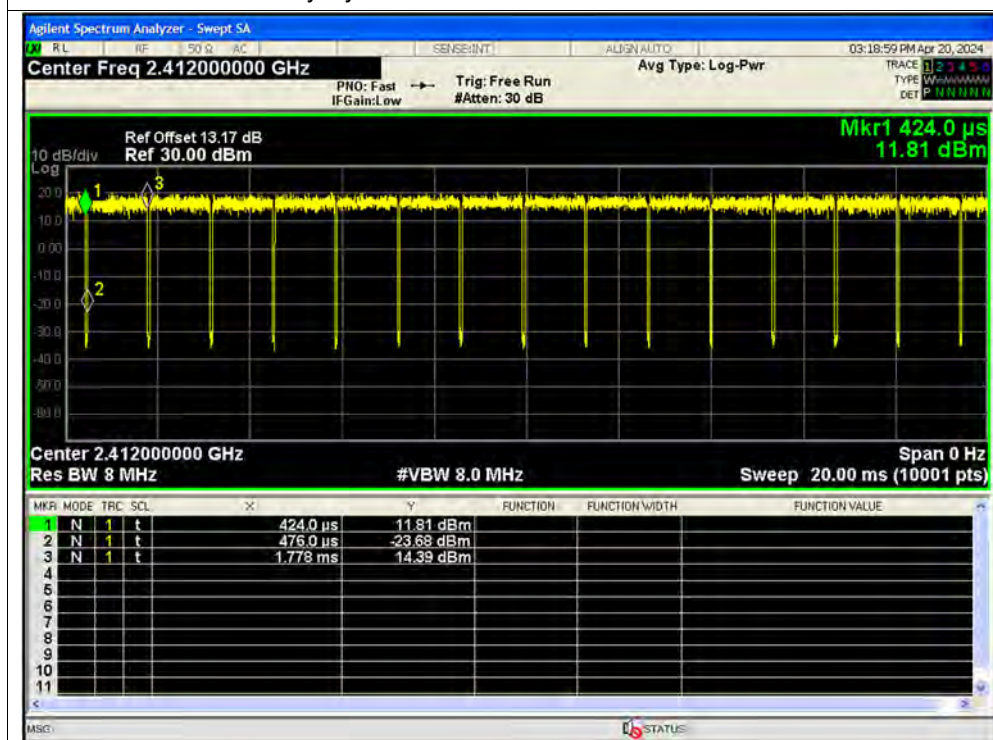
Duty Cycle NVNT n20 2437MHz Ant1 SISO



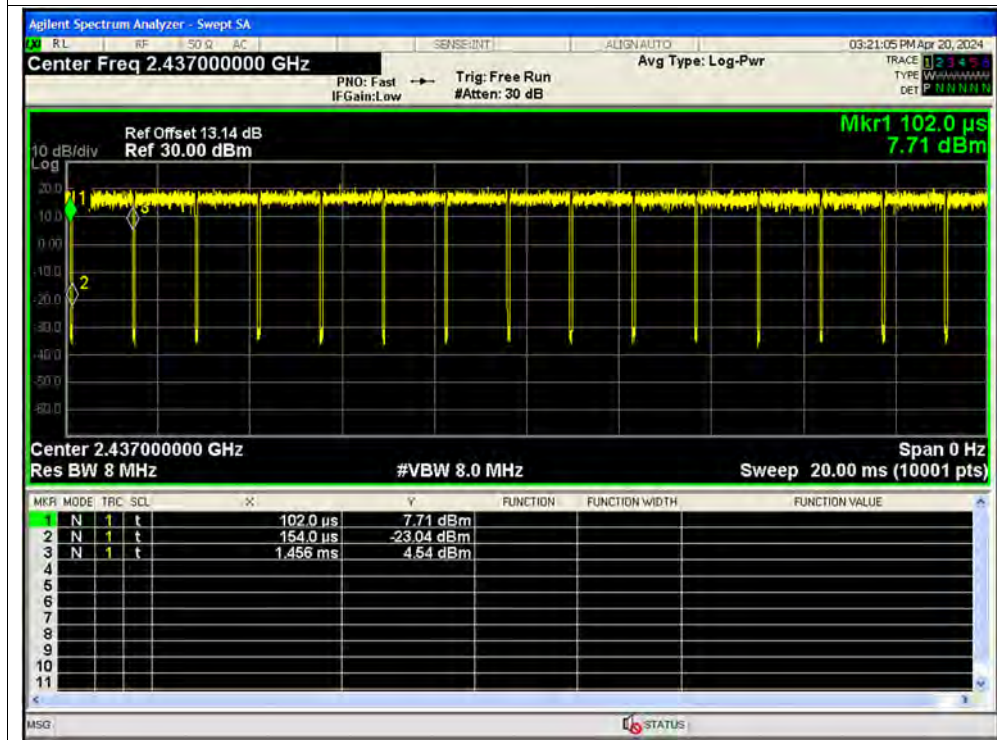
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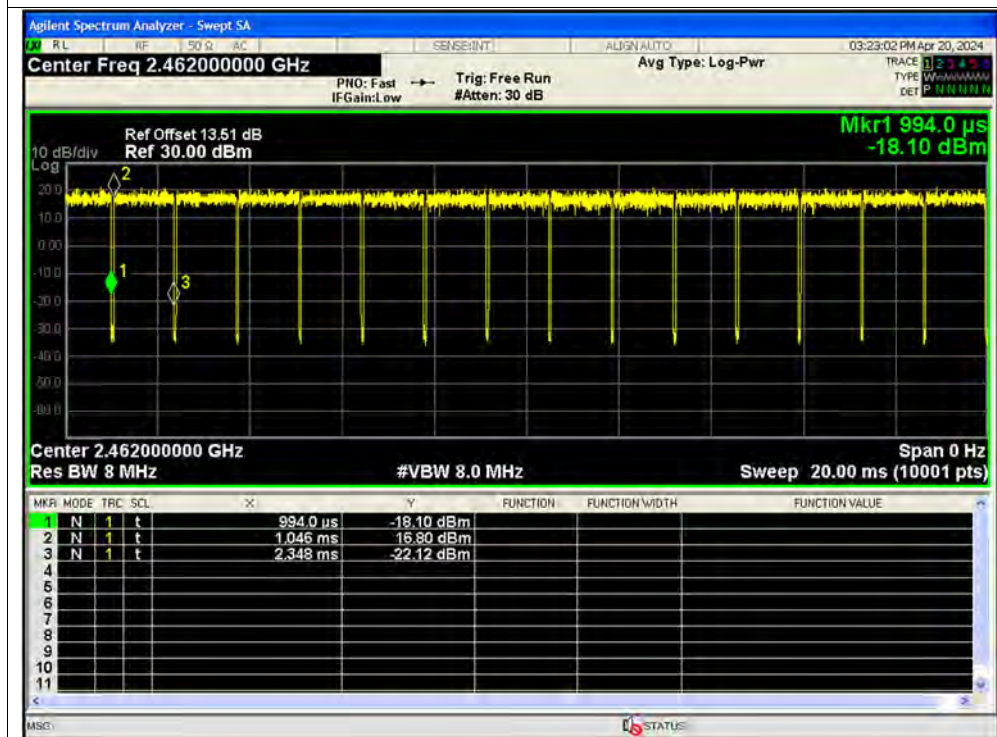
Duty Cycle NVNT n20 2412MHz Ant2 SISO



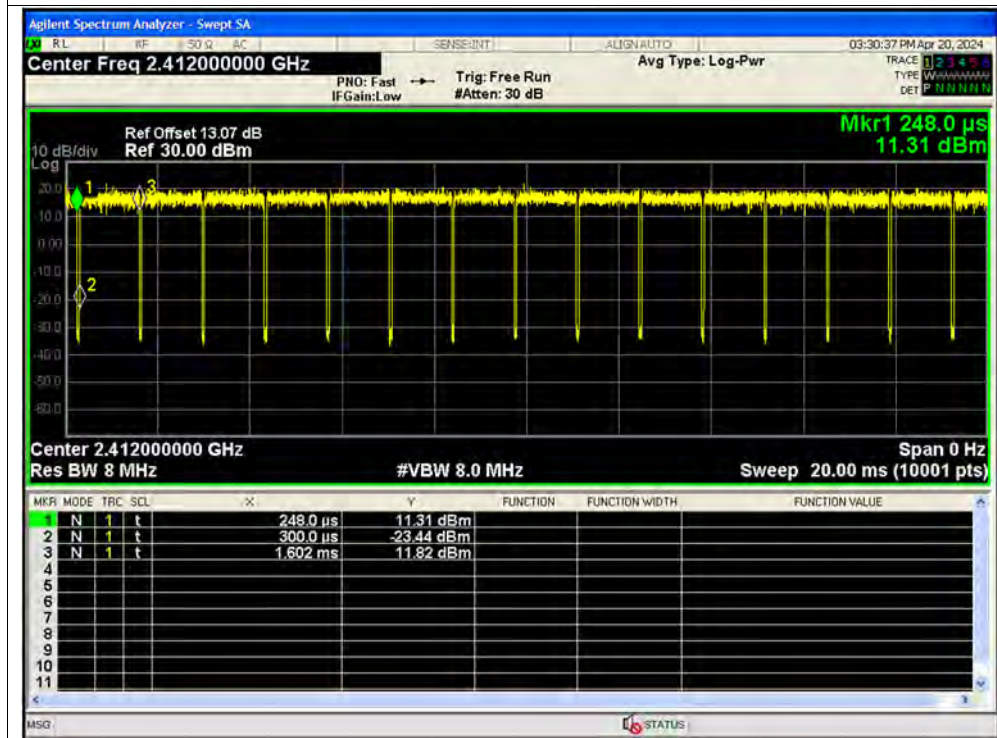
Duty Cycle NVNT n20 2437MHz Ant2 SISO



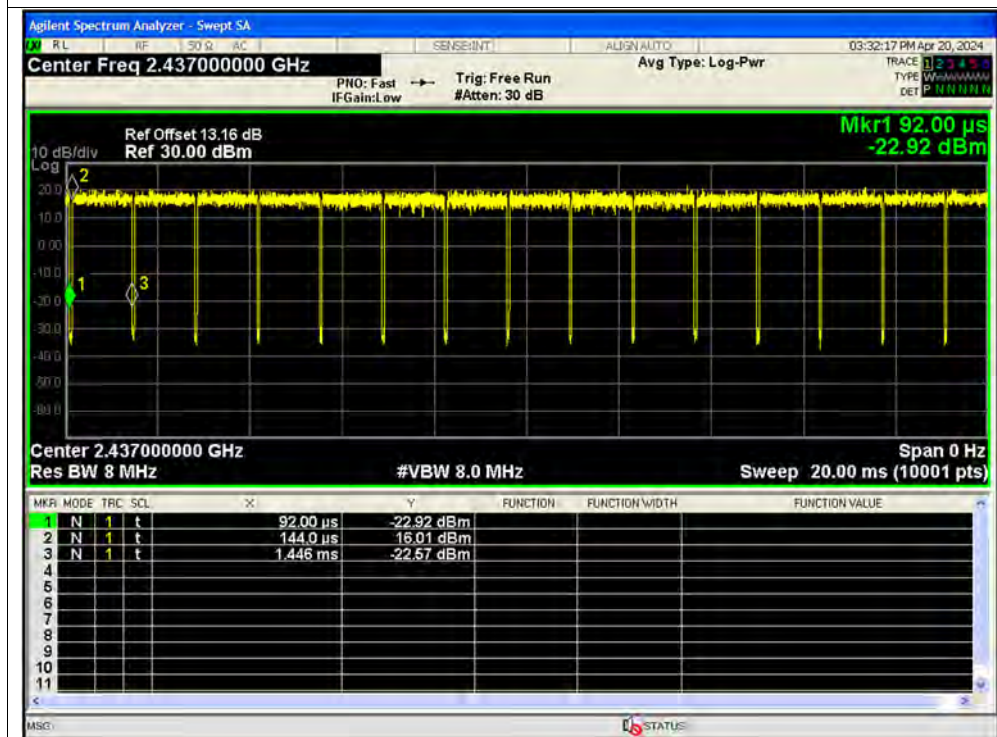
Duty Cycle NVNT n20 2462MHz Ant2 SISO



Duty Cycle NVNT n20 2412MHz Sum MIMO

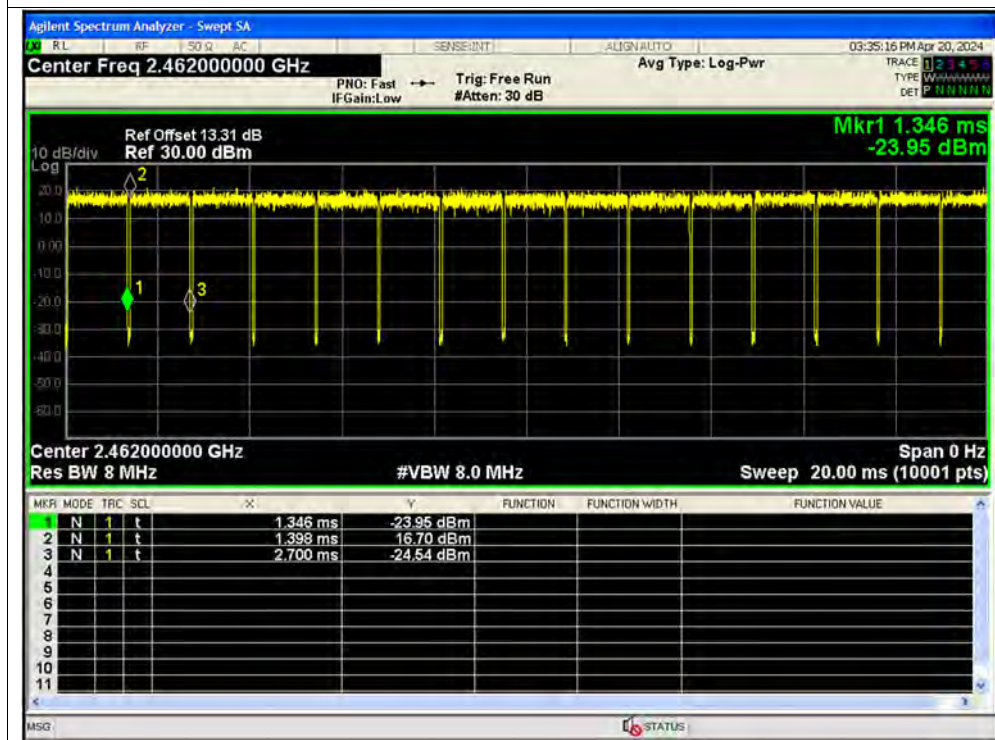


Duty Cycle NVNT n20 2437MHz Sum MIMO

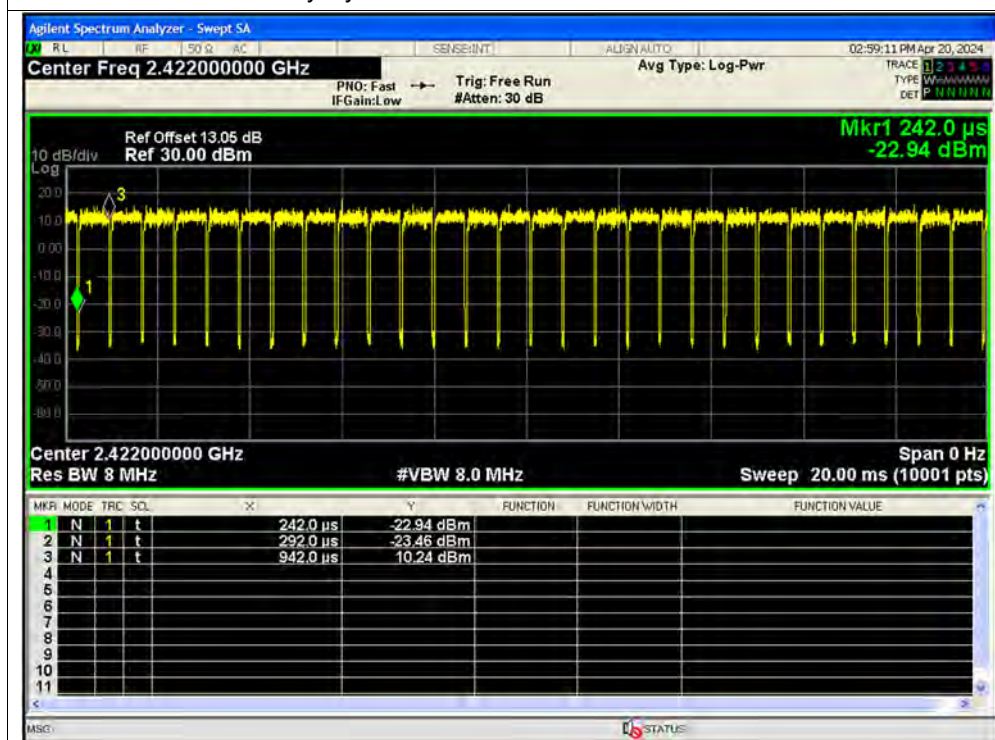




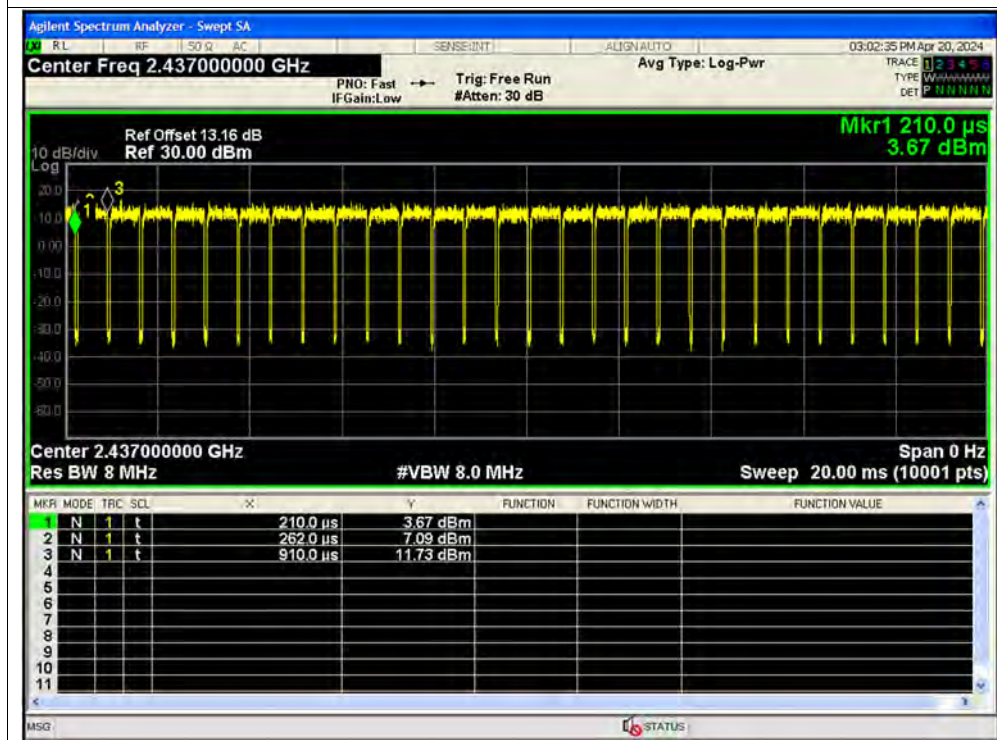
Duty Cycle NVNT n20 2462MHz Sum MIMO



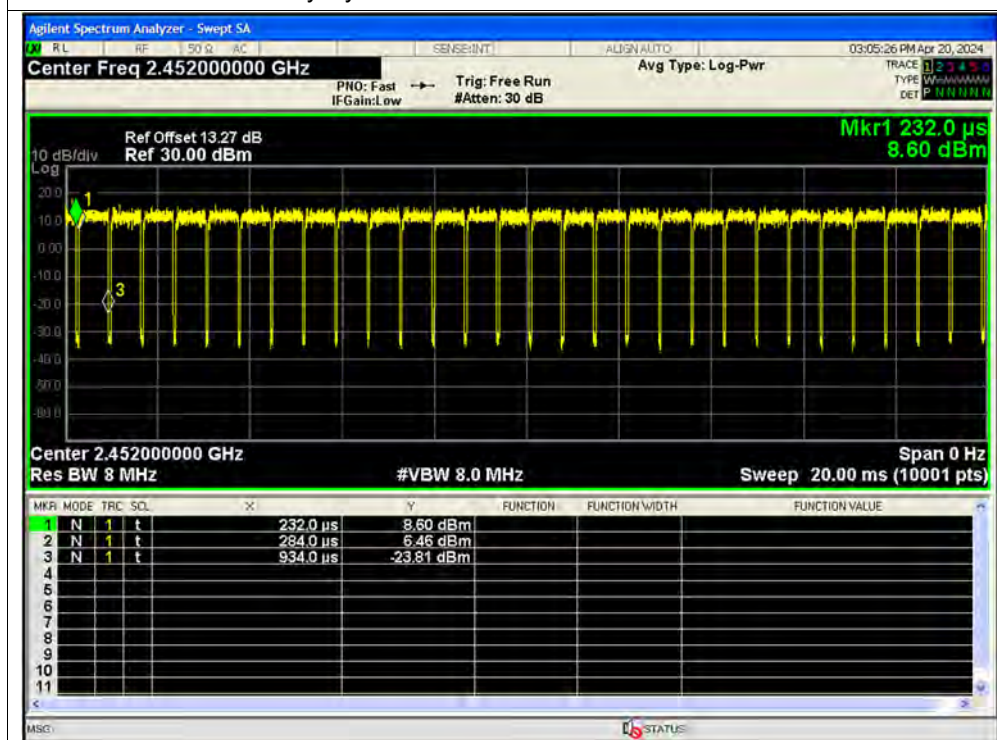
Duty Cycle NVNT n40 2422MHz Ant1 SISO



Duty Cycle NVNT n40 2437MHz Ant1 SISO

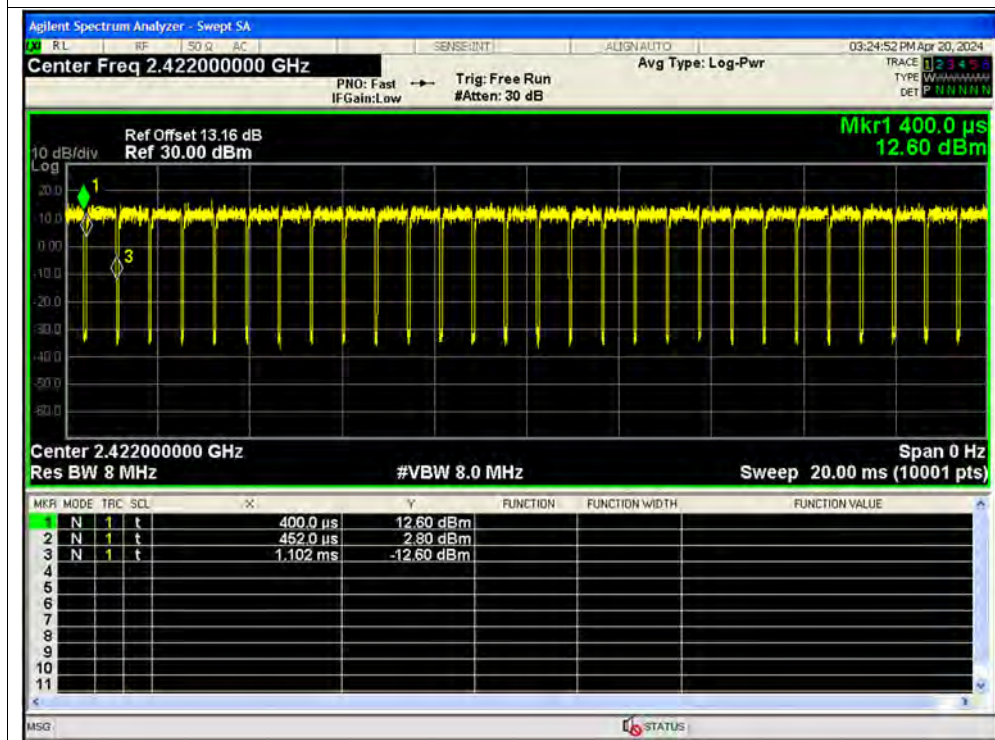


Duty Cycle NVNT n40 2452MHz Ant1 SISO

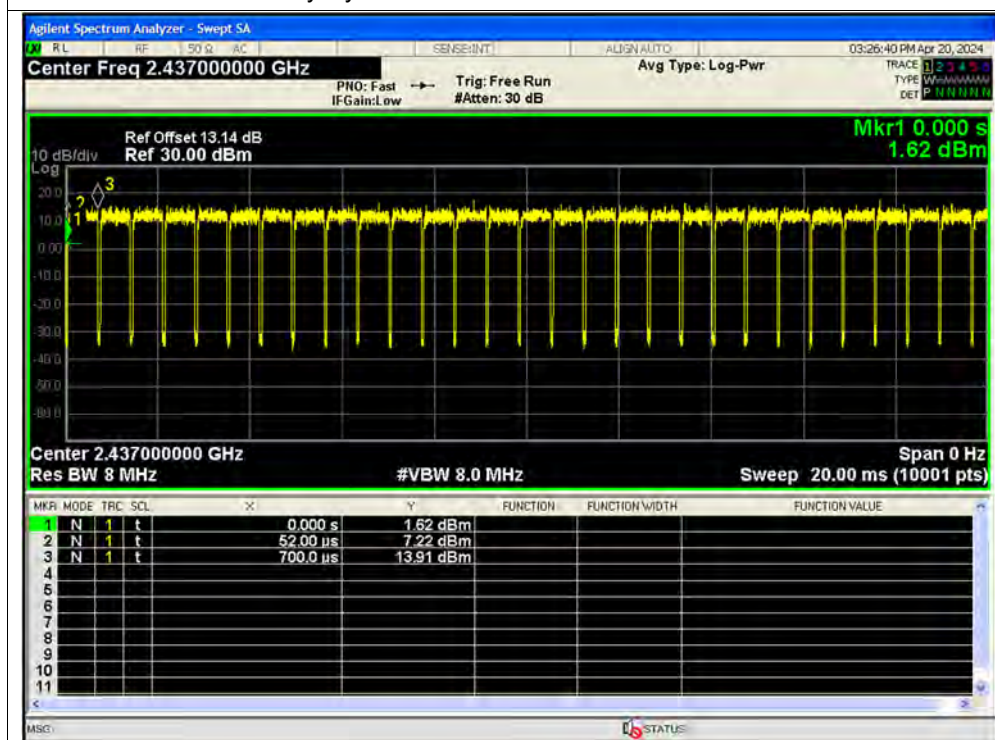




Duty Cycle NVNT n40 2422MHz Ant2 SISO

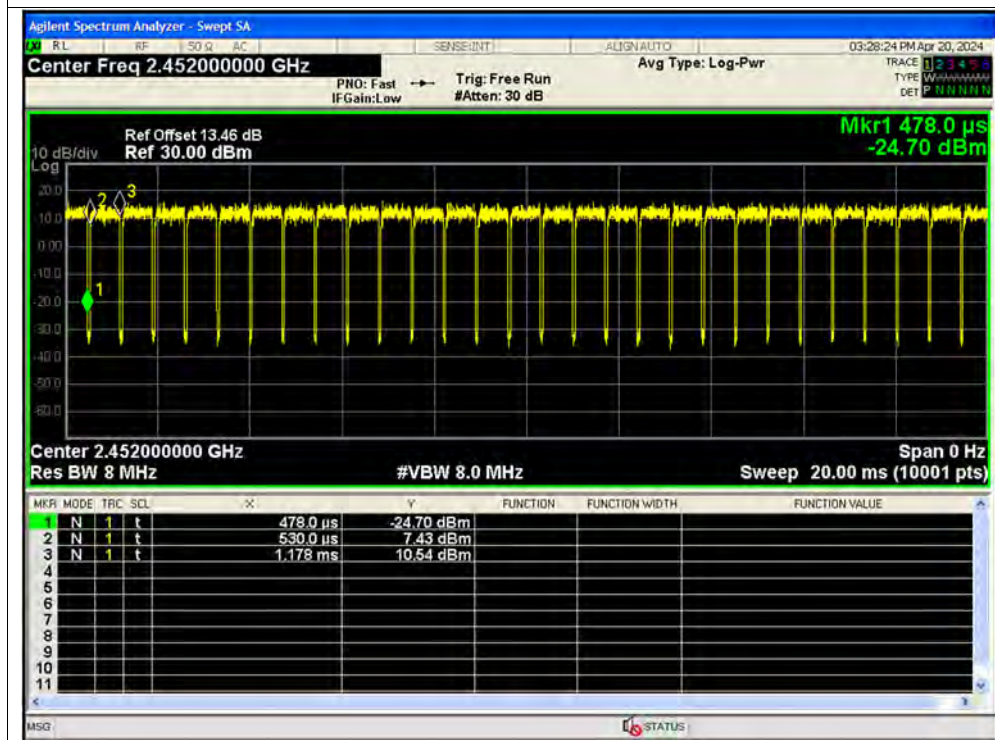


Duty Cycle NVNT n40 2437MHz Ant2 SISO

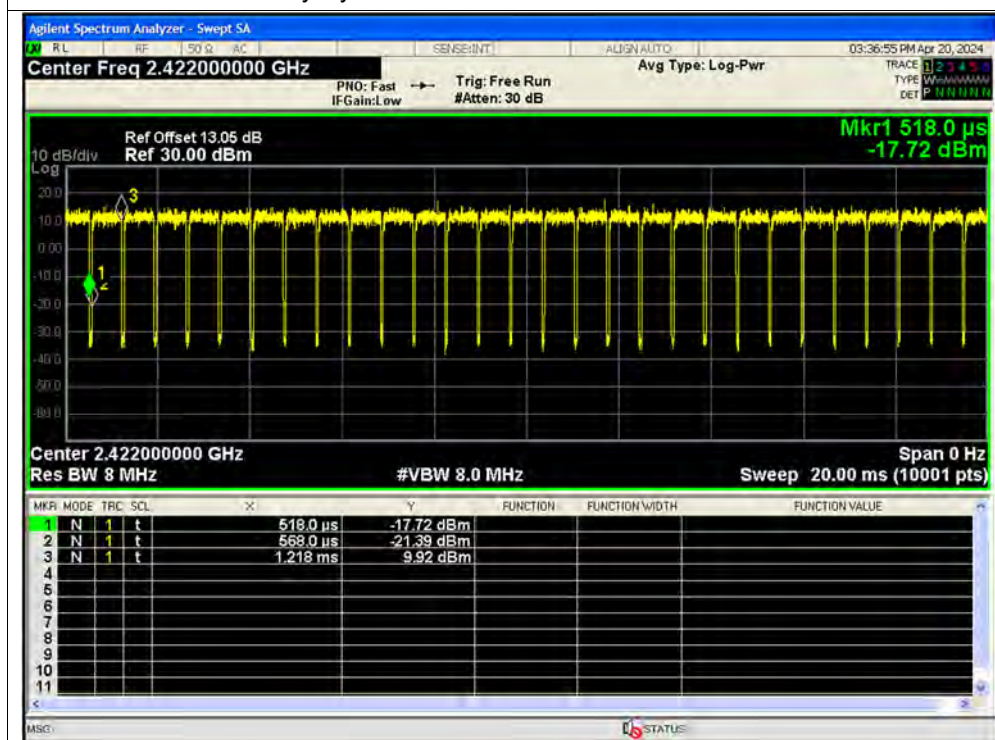




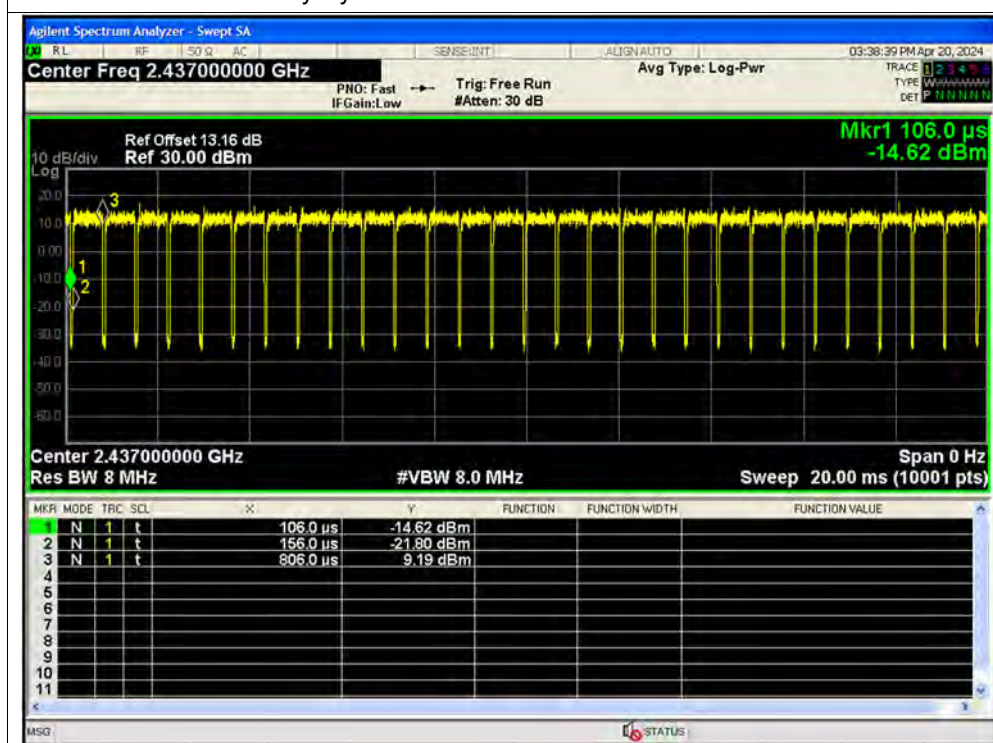
Duty Cycle NVNT n40 2452MHz Ant2 SISO



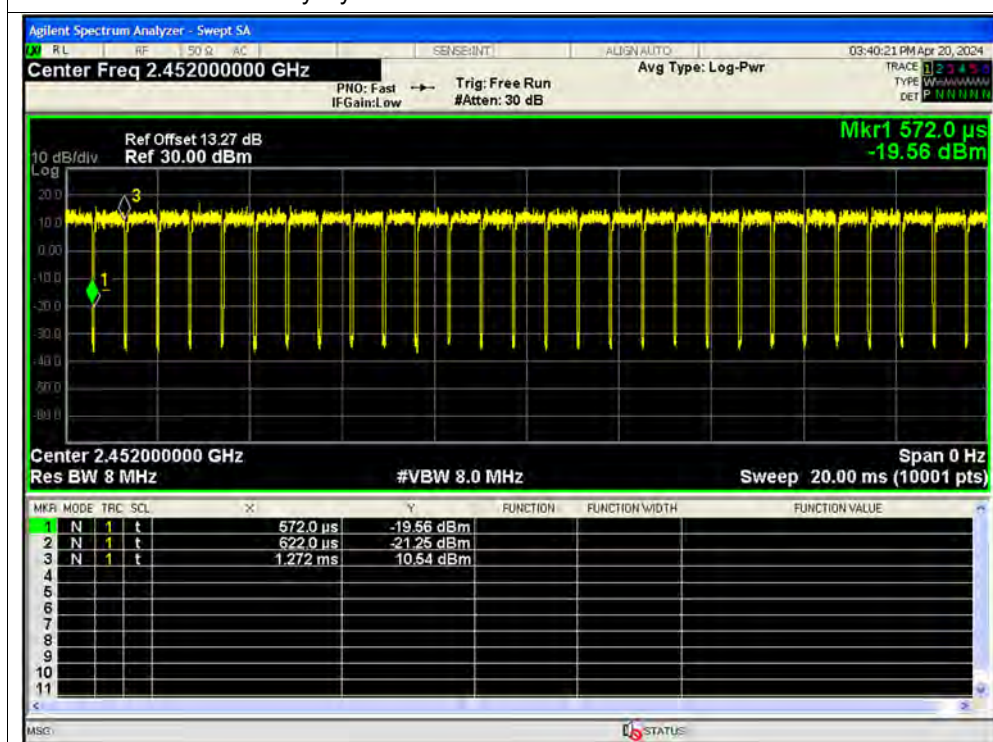
Duty Cycle NVNT n40 2422MHz Sum MIMO



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	Ant1	14.65	0	14.65	0.02917	30	Pass
NVNT	b SISO	2437	Ant1	15.03	0	15.03	0.03184	30	Pass
NVNT	b SISO	2462	Ant1	14.89	0	14.89	0.03083	30	Pass
NVNT	b SISO	2412	Ant2	14.4	0	14.4	0.02754	30	Pass
NVNT	b SISO	2437	Ant2	14.89	0	14.89	0.03083	30	Pass
NVNT	b SISO	2462	Ant2	14.96	0	14.96	0.03133	30	Pass
NVNT	g SISO	2412	Ant1	21.72	0	21.72	0.14859	30	Pass
NVNT	g SISO	2437	Ant1	21.78	0	21.78	0.15066	30	Pass
NVNT	g SISO	2462	Ant1	21.67	0	21.67	0.14689	30	Pass
NVNT	g SISO	2412	Ant2	21.66	0	21.66	0.14655	30	Pass
NVNT	g SISO	2437	Ant2	21.63	0	21.63	0.14555	30	Pass
NVNT	g SISO	2462	Ant2	21.83	0	21.83	0.15241	30	Pass
NVNT	n20 SISO	2412	Ant1	20.44	0	20.44	0.11066	30	Pass
NVNT	n20 SISO	2437	Ant1	20.15	0	20.15	0.10351	30	Pass
NVNT	n20 SISO	2462	Ant1	20.79	0	20.79	0.11995	30	Pass
NVNT	n20 SISO	2412	Ant2	20.48	0	20.48	0.11169	30	Pass
NVNT	n20 SISO	2437	Ant2	20.51	0	20.51	0.11246	30	Pass
NVNT	n20 SISO	2462	Ant2	20.86	0	20.86	0.1219	30	Pass
NVNT	n20 MIMO	2412	Ant1	20.82	0	20.82	0.12078	30	Pass
NVNT	n20 MIMO	2412	Ant2	21.42	0	21.42	0.13868	30	Pass
NVNT	n20 MIMO	2412	Sum	NaN	NaN	24.14	0.25946	30	Pass
NVNT	n20 MIMO	2437	Ant1	20.95	0	20.95	0.12445	30	Pass
NVNT	n20 MIMO	2437	Ant2	21.24	0	21.24	0.13305	30	Pass
NVNT	n20 MIMO	2437	Sum	NaN	NaN	24.11	0.2575	30	Pass
NVNT	n20 MIMO	2462	Ant1	20.78	0	20.78	0.11967	30	Pass
NVNT	n20 MIMO	2462	Ant2	21.41	0	21.41	0.13836	30	Pass
NVNT	n20 MIMO	2462	Sum	NaN	NaN	24.12	0.25803	30	Pass
NVNT	n40 SISO	2422	Ant1	18.77	0	18.77	0.07534	30	Pass
NVNT	n40 SISO	2437	Ant1	19.07	0	19.07	0.08072	30	Pass
NVNT	n40 SISO	2452	Ant1	18.97	0	18.97	0.07889	30	Pass
NVNT	n40 SISO	2422	Ant2	18.84	0	18.84	0.07656	30	Pass
NVNT	n40 SISO	2437	Ant2	18.9	0	18.9	0.07762	30	Pass
NVNT	n40 SISO	2452	Ant2	19.33	0	19.33	0.0857	30	Pass

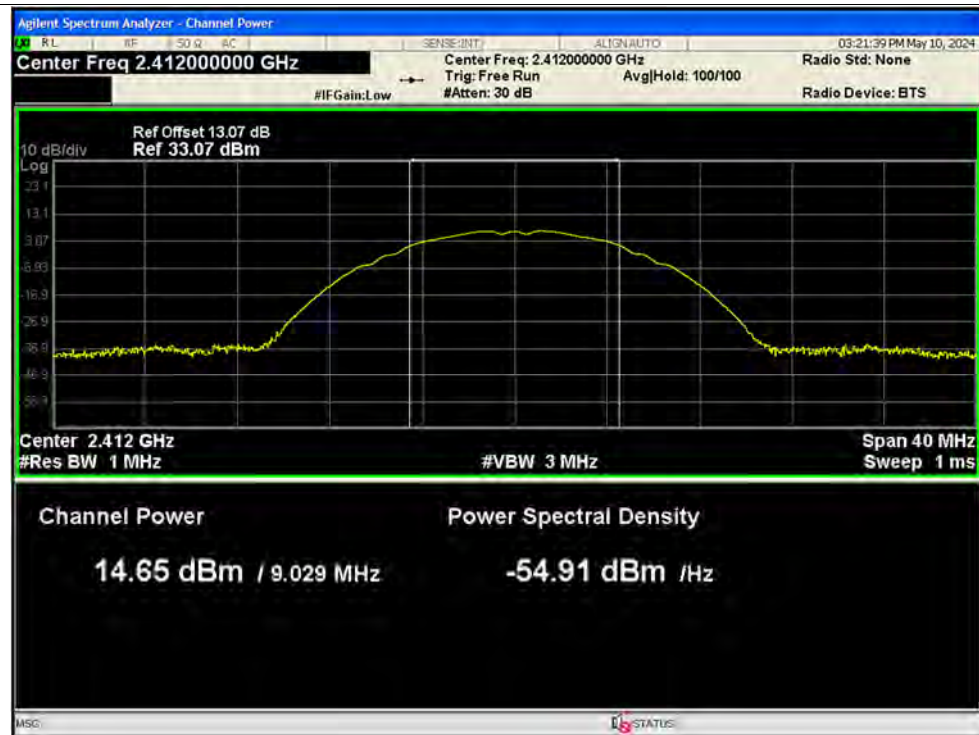


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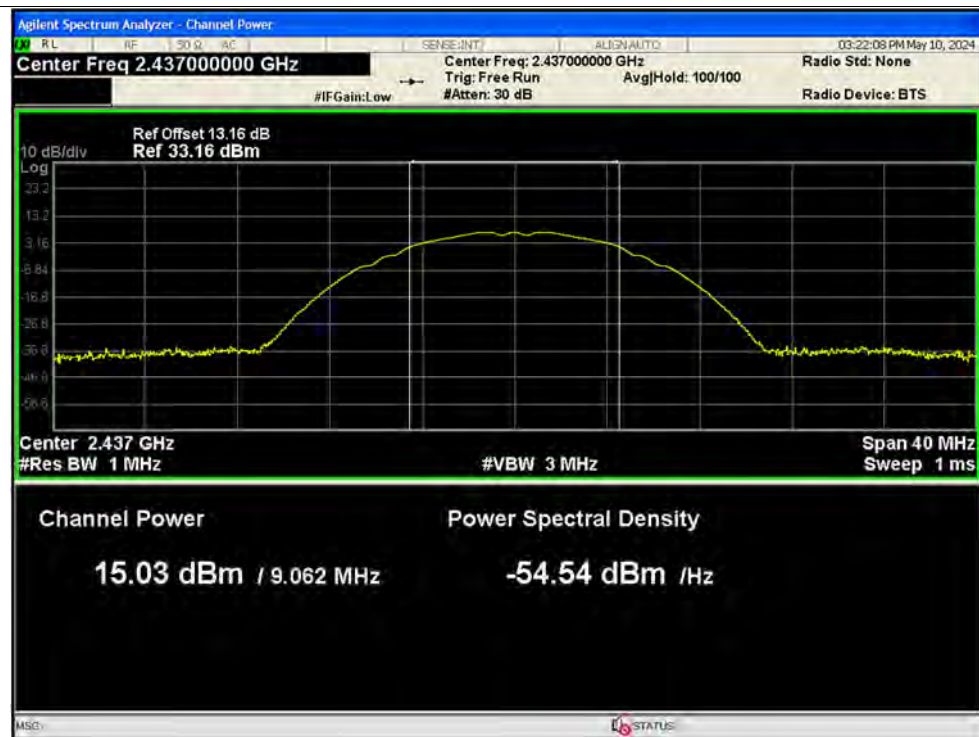
NVNT	n40 MIMO	2422	Ant1	18.72	0	18.72	0.07447	30	Pass
NVNT	n40 MIMO	2422	Ant2	19.33	0	19.33	0.0857	30	Pass
NVNT	n40 MIMO	2422	Sum	NaN	NaN	22.05	0.16018	30	Pass
NVNT	n40 MIMO	2437	Ant1	18.95	0	18.95	0.07852	30	Pass
NVNT	n40 MIMO	2437	Ant2	19.25	0	19.25	0.08414	30	Pass
NVNT	n40 MIMO	2437	Sum	NaN	NaN	22.11	0.16266	30	Pass
NVNT	n40 MIMO	2452	Ant1	19.02	0	19.02	0.0798	30	Pass
NVNT	n40 MIMO	2452	Ant2	19.62	0	19.62	0.09162	30	Pass
NVNT	n40 MIMO	2452	Sum	NaN	NaN	22.34	0.17142	30	Pass

Test Graphs

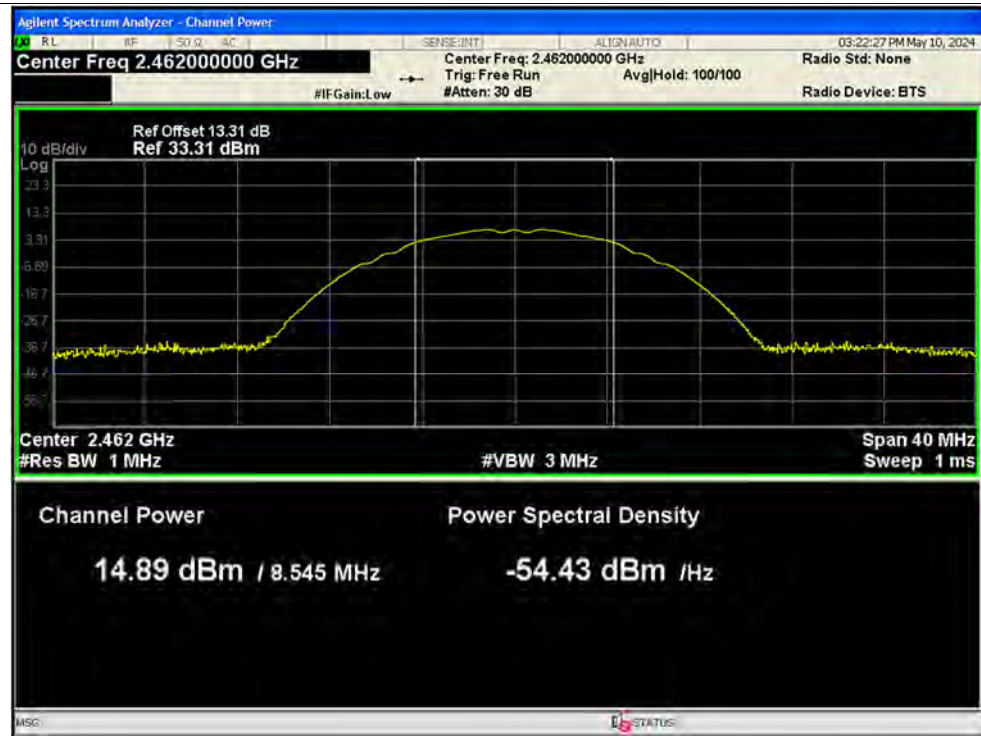
Peak Power NVNT b 2412MHz Ant1 SISO



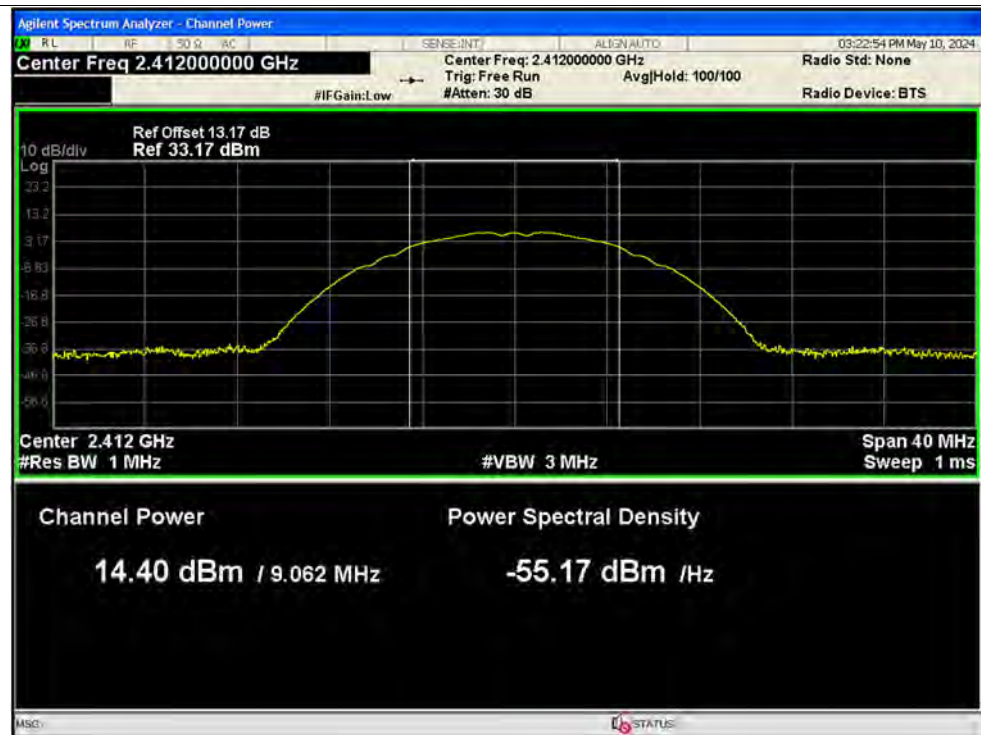
Peak Power NVNT b 2437MHz Ant1 SISO



Peak Power NVNT b 2462MHz Ant1 SISO

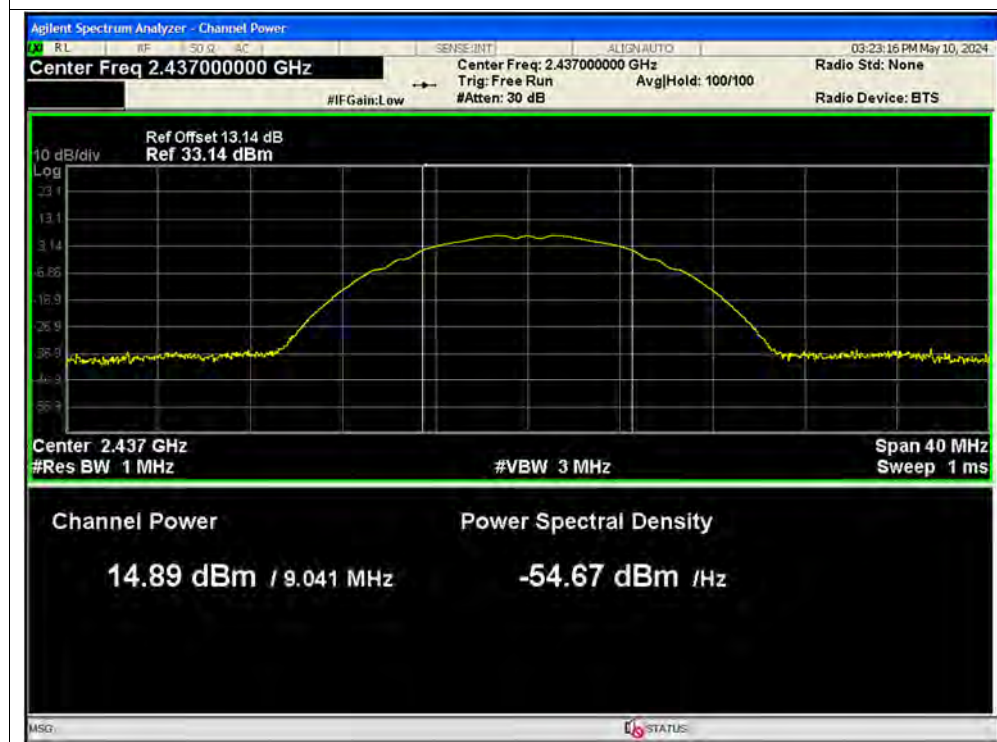


Peak Power NVNT b 2412MHz Ant2 SISO

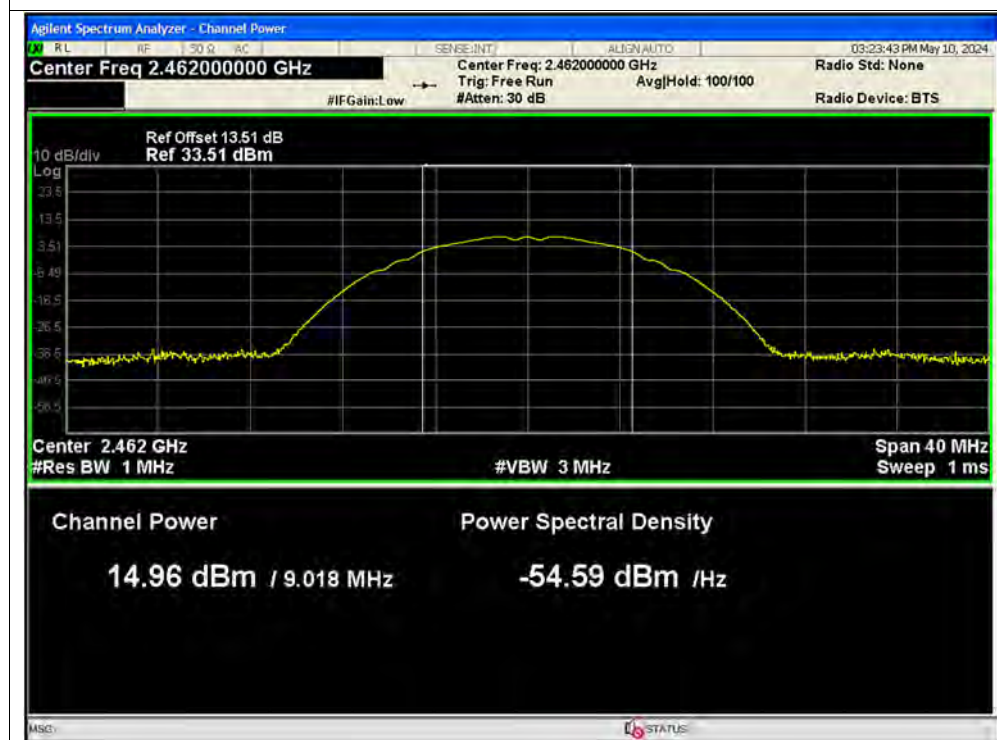




Peak Power NVNT b 2437MHz Ant2 SISO

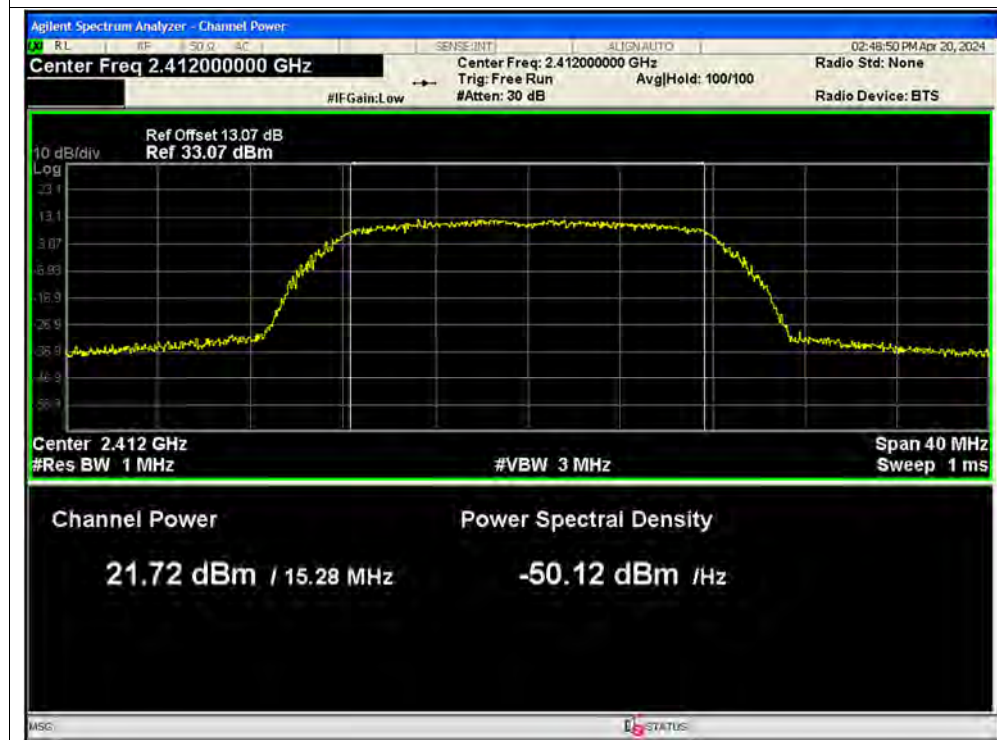


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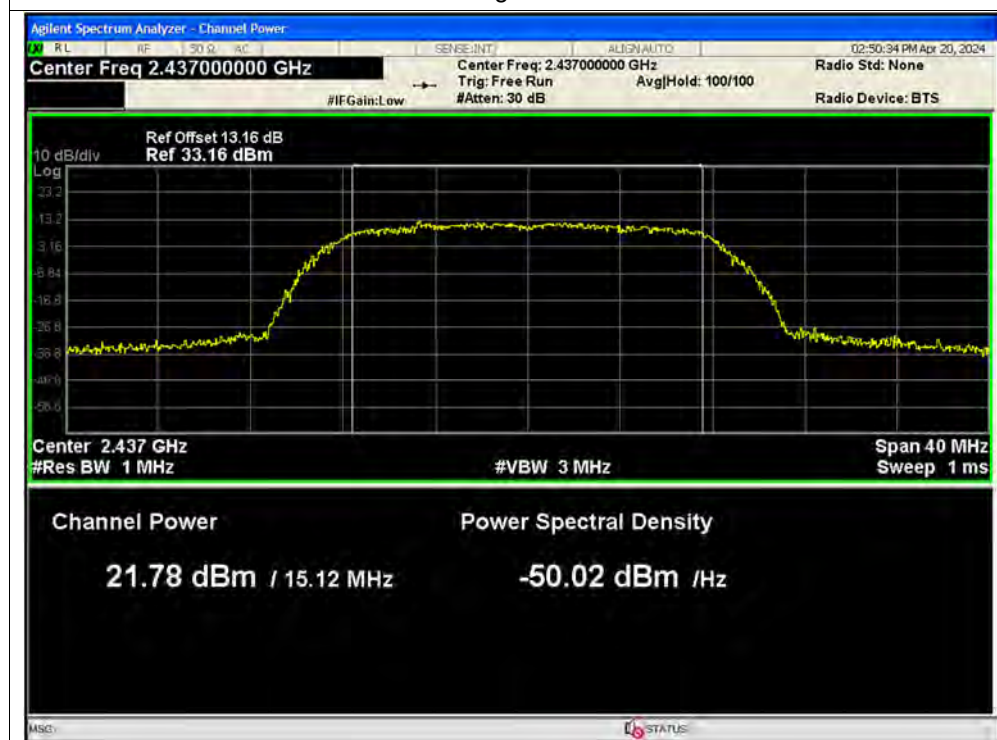




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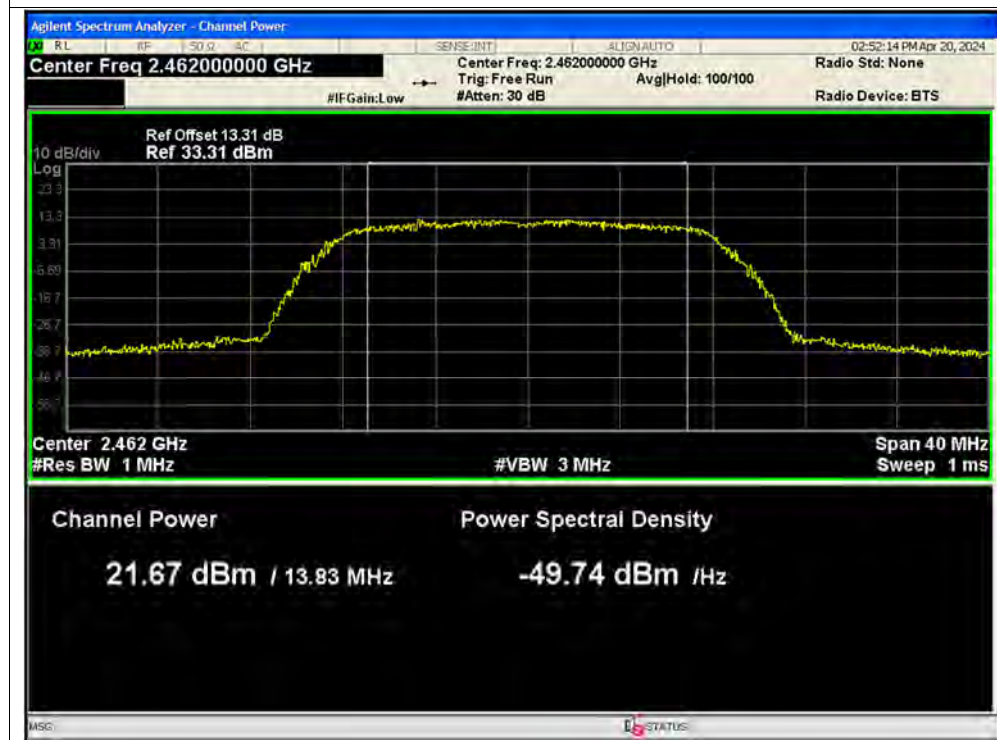


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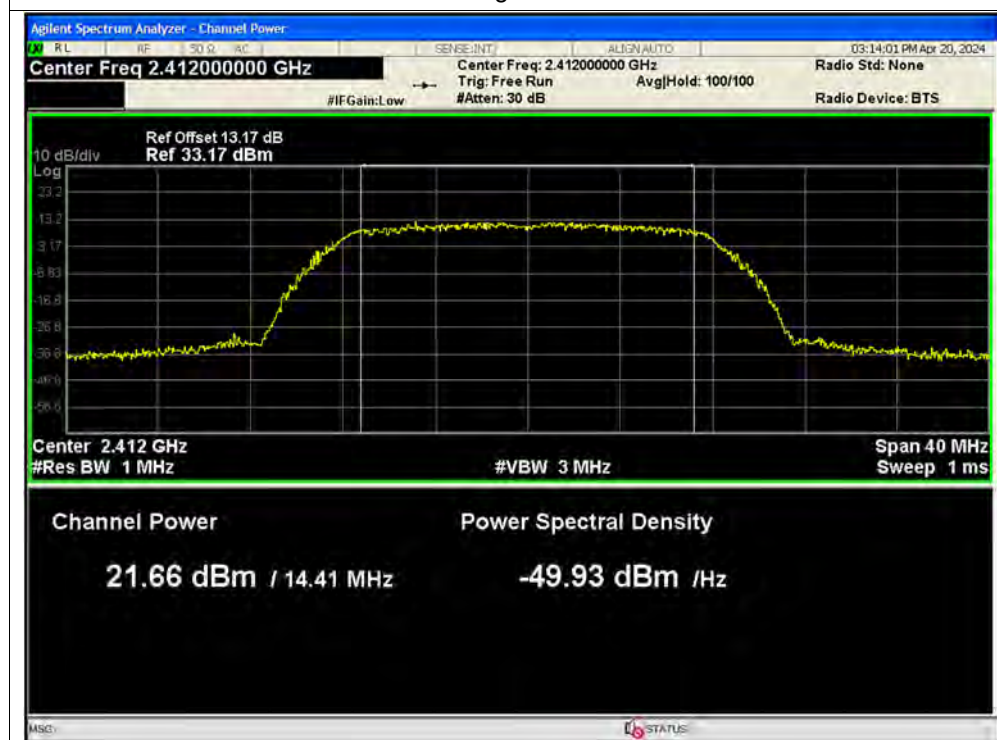




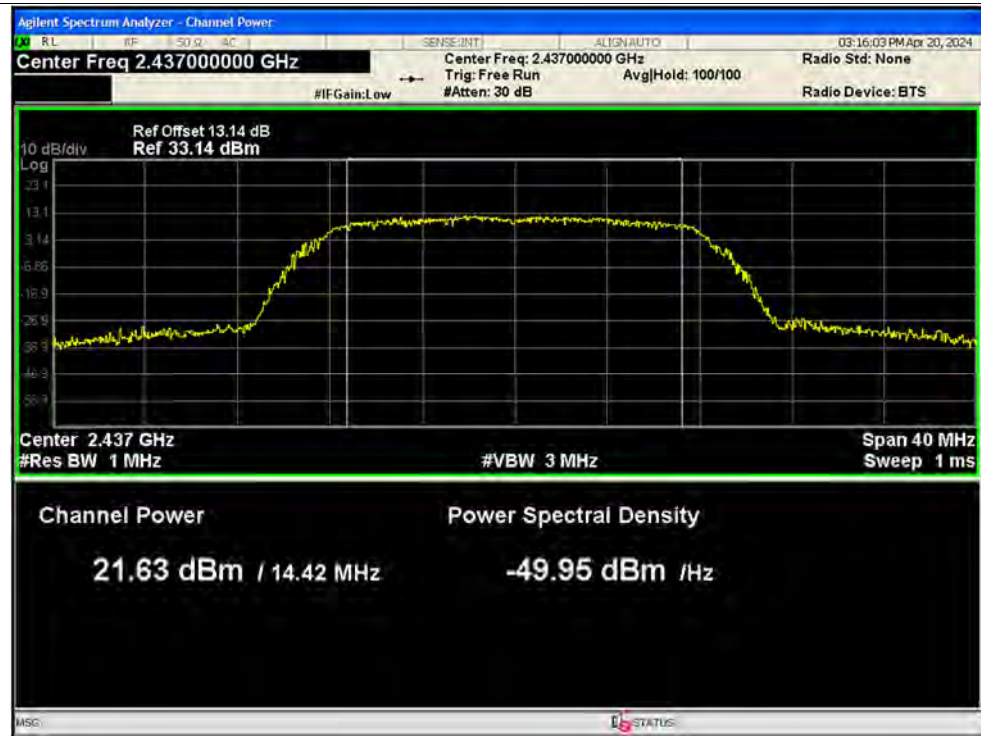
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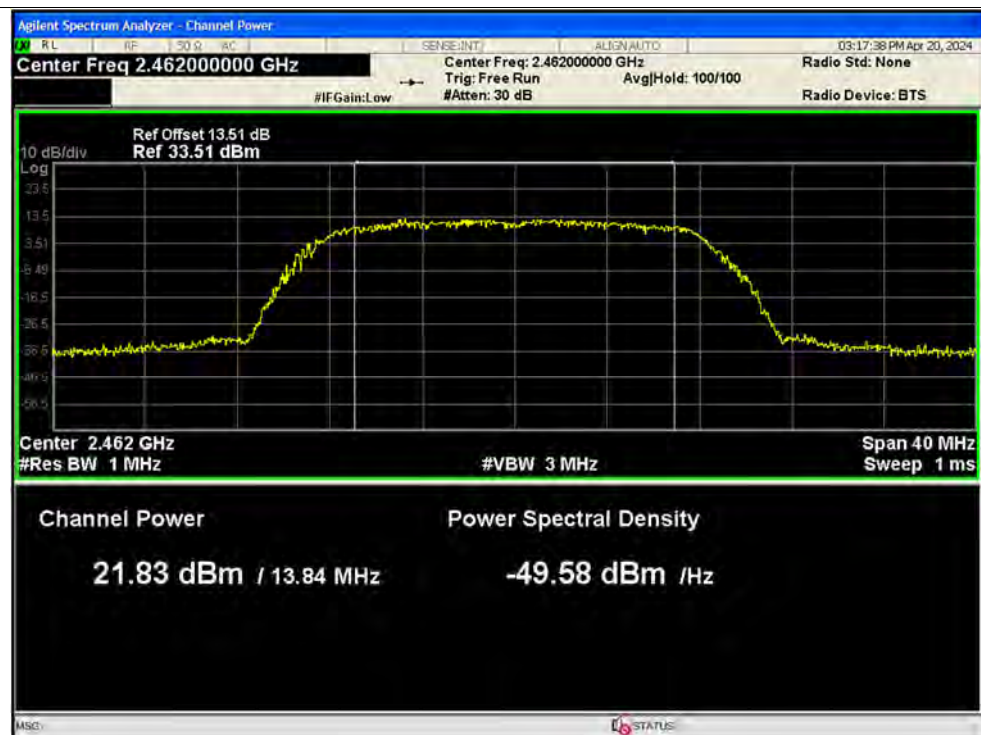
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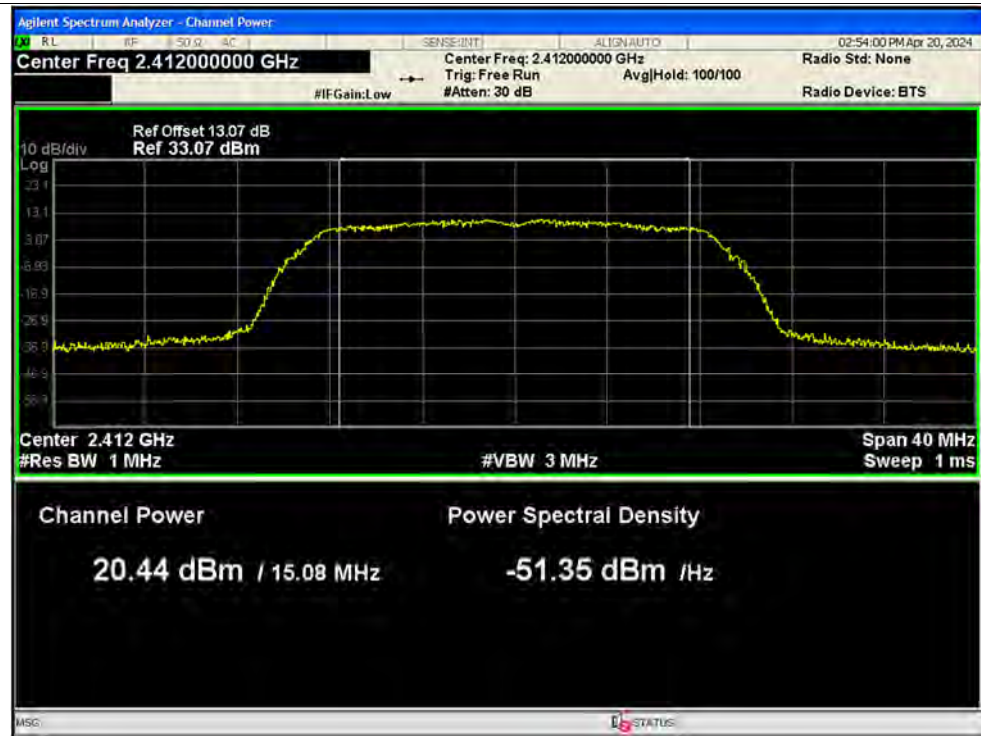


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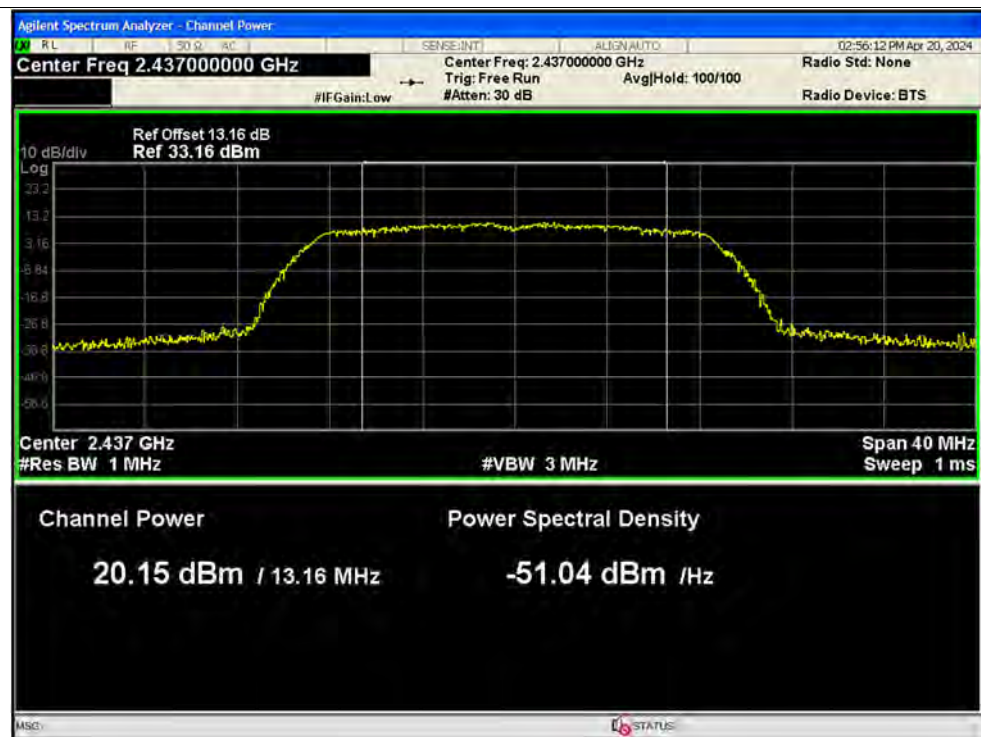




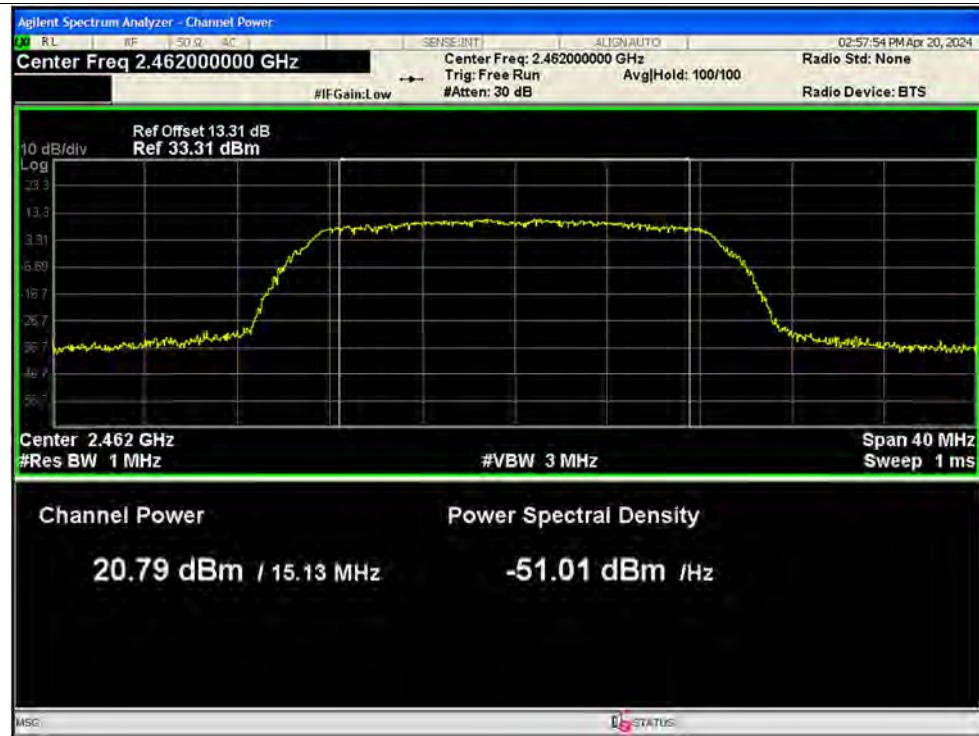
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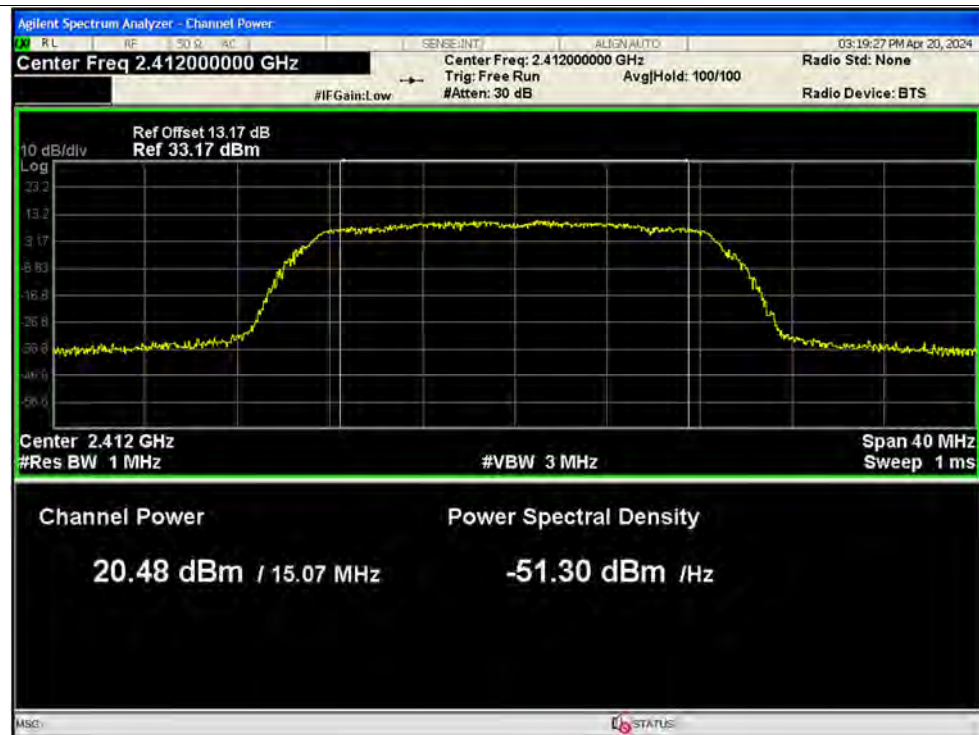
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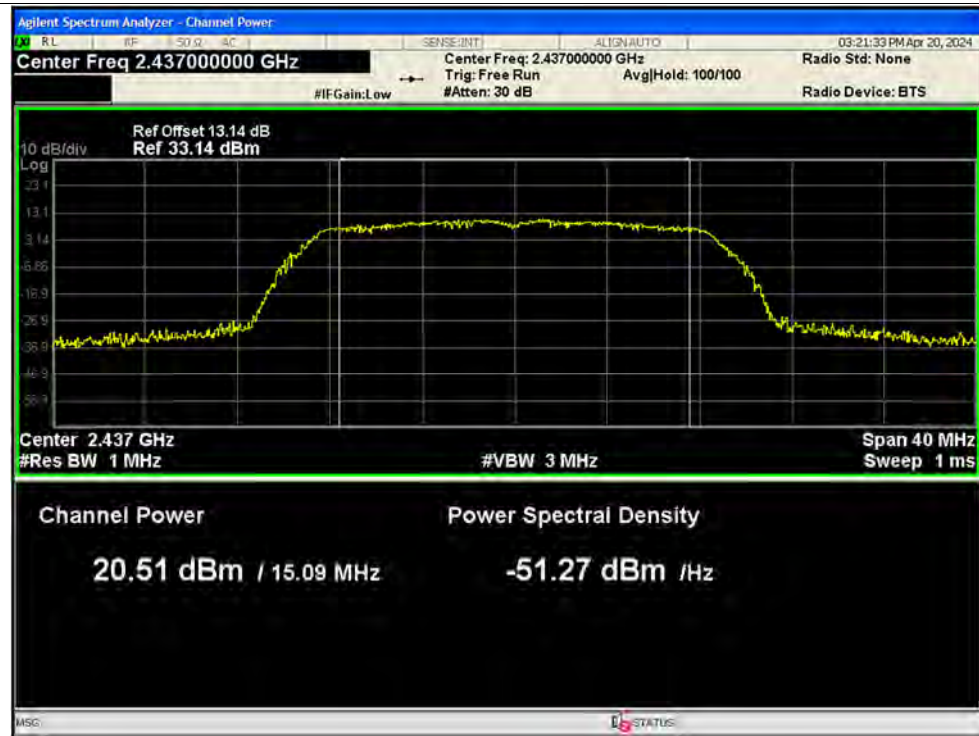
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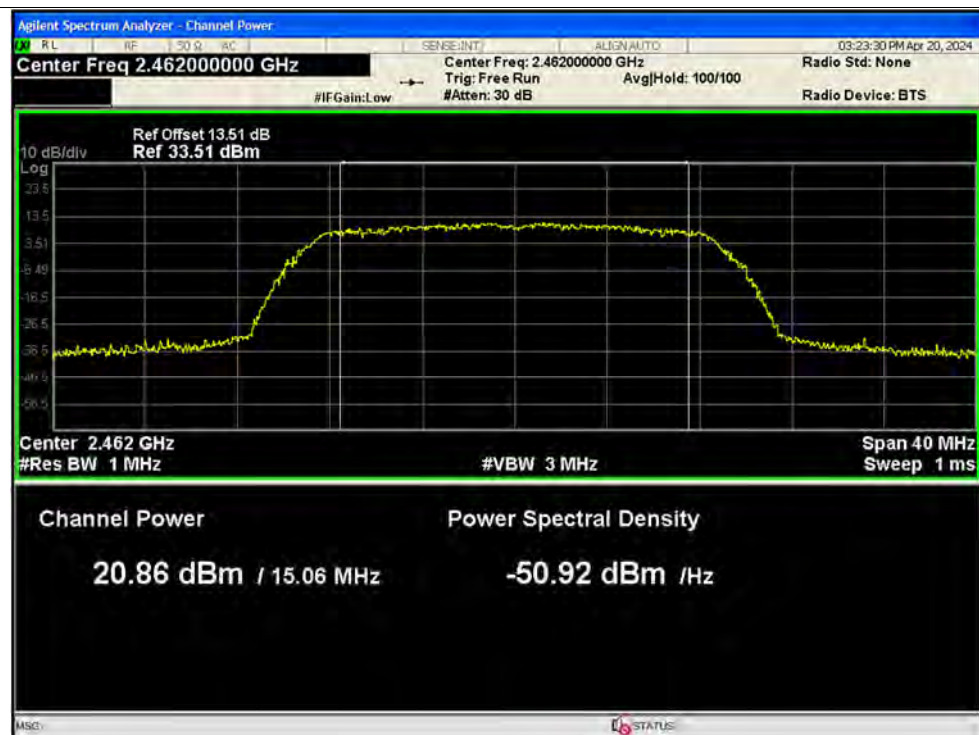
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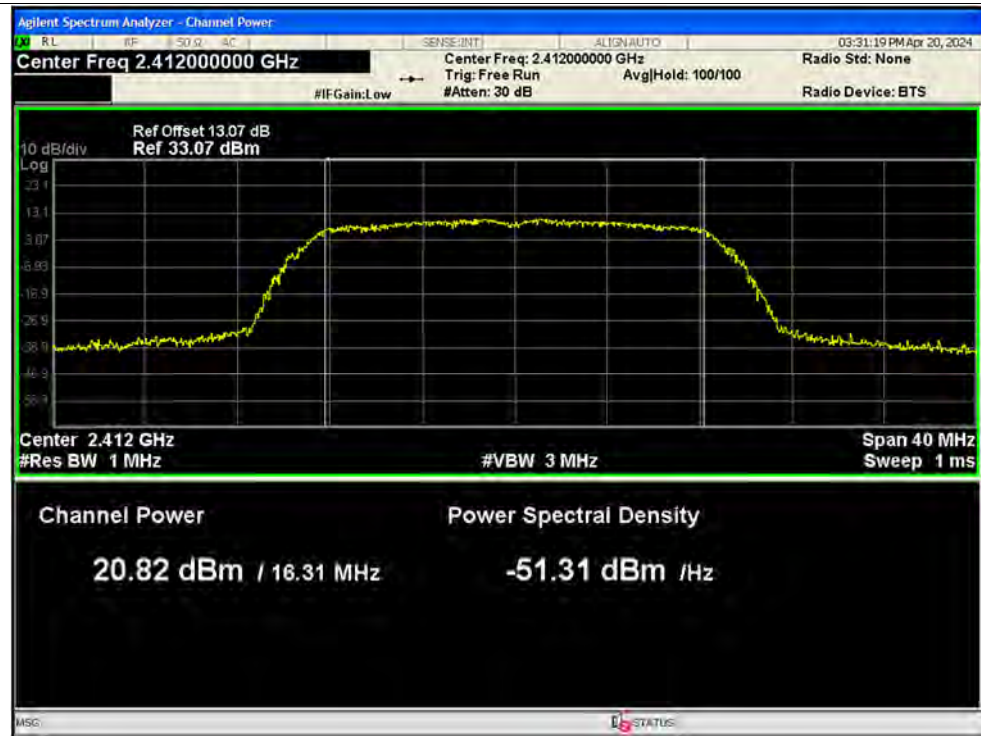
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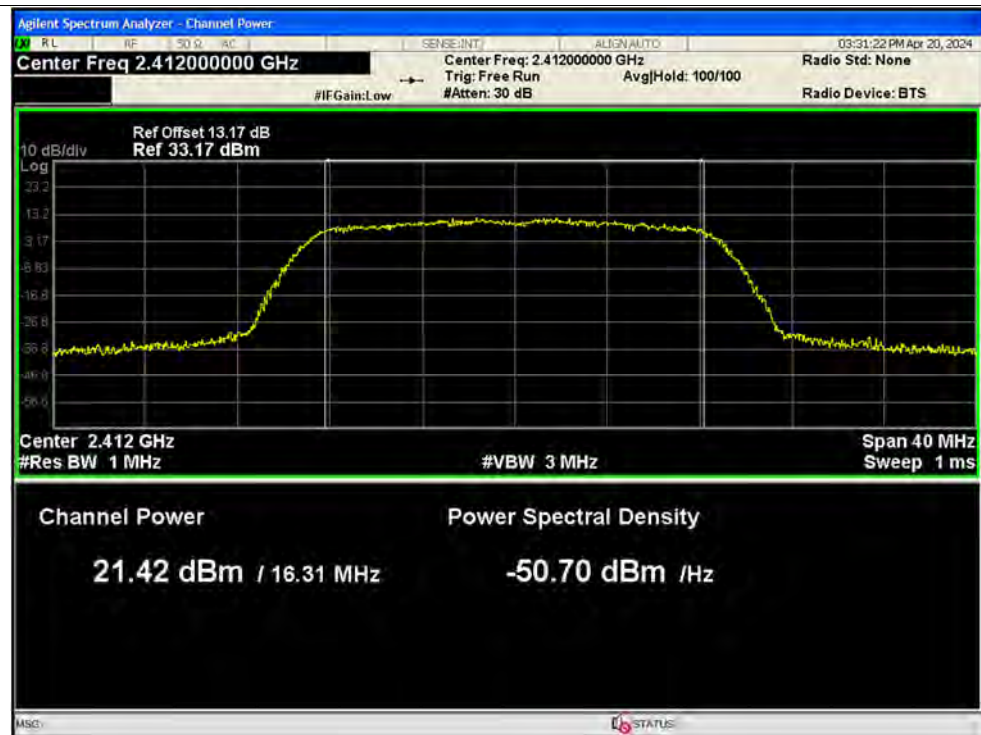
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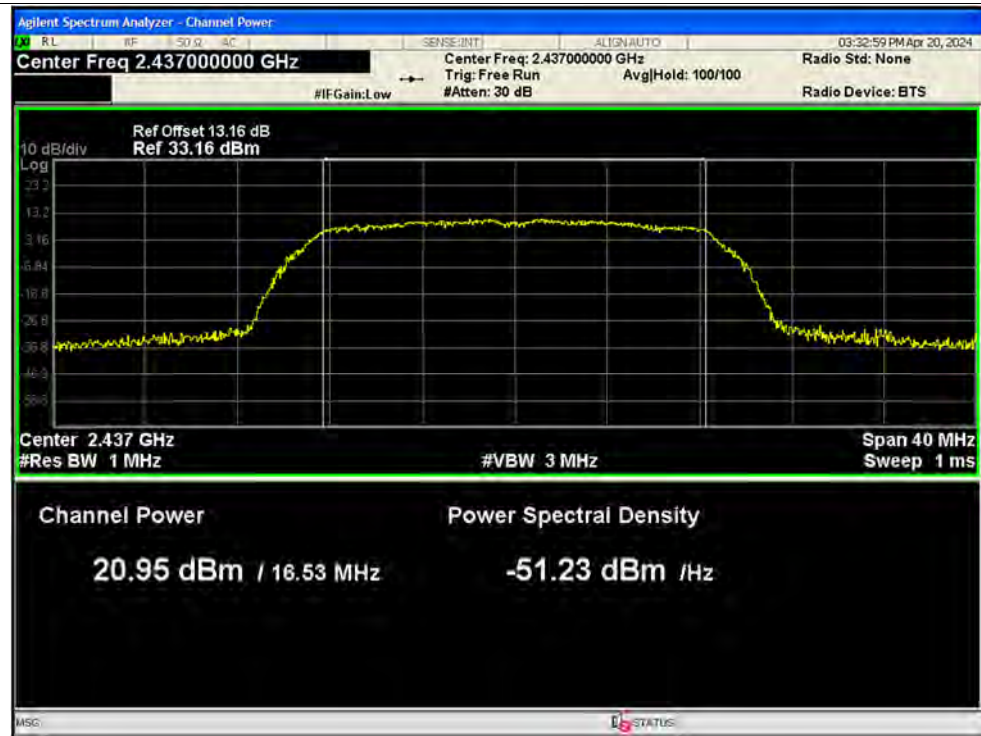
Peak Power NVNT n20 2412MHz Ant1 MIMO



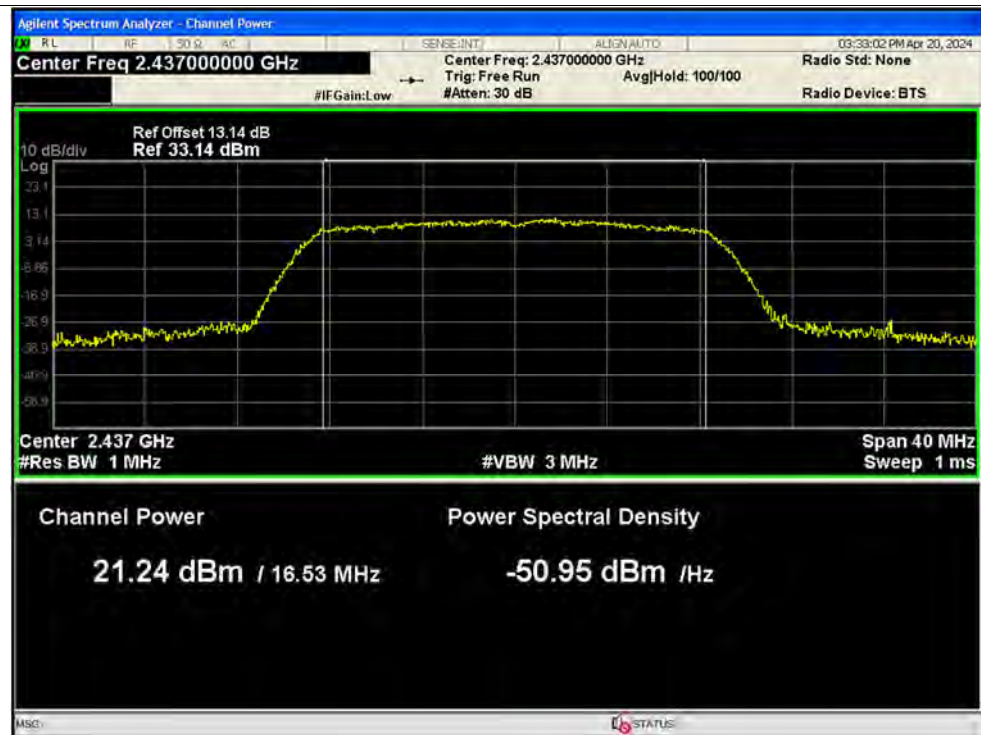
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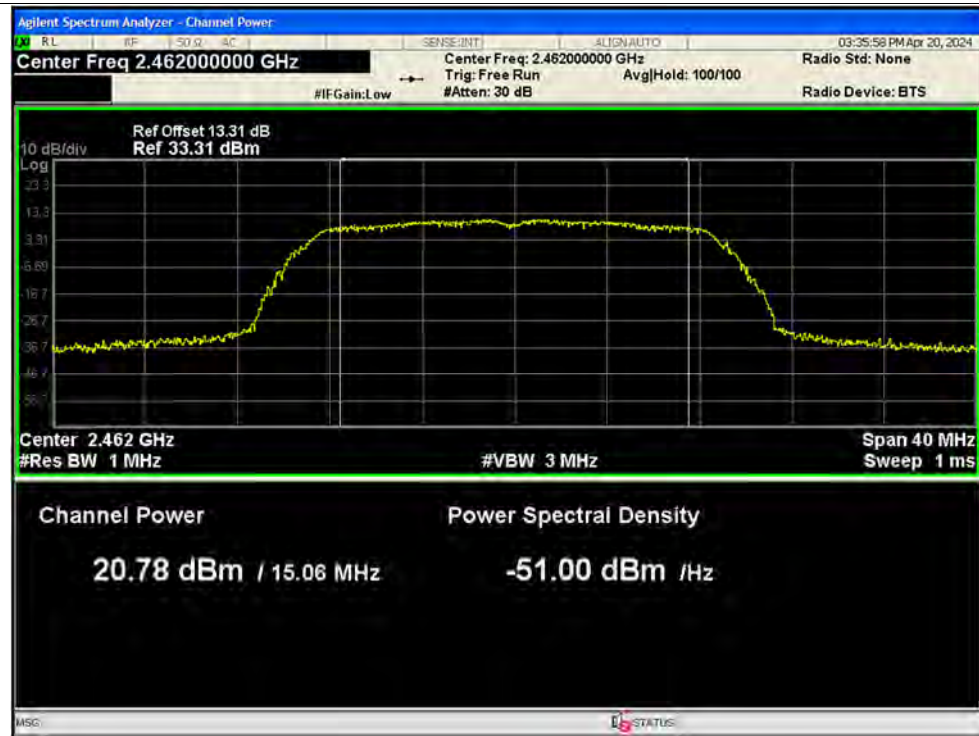
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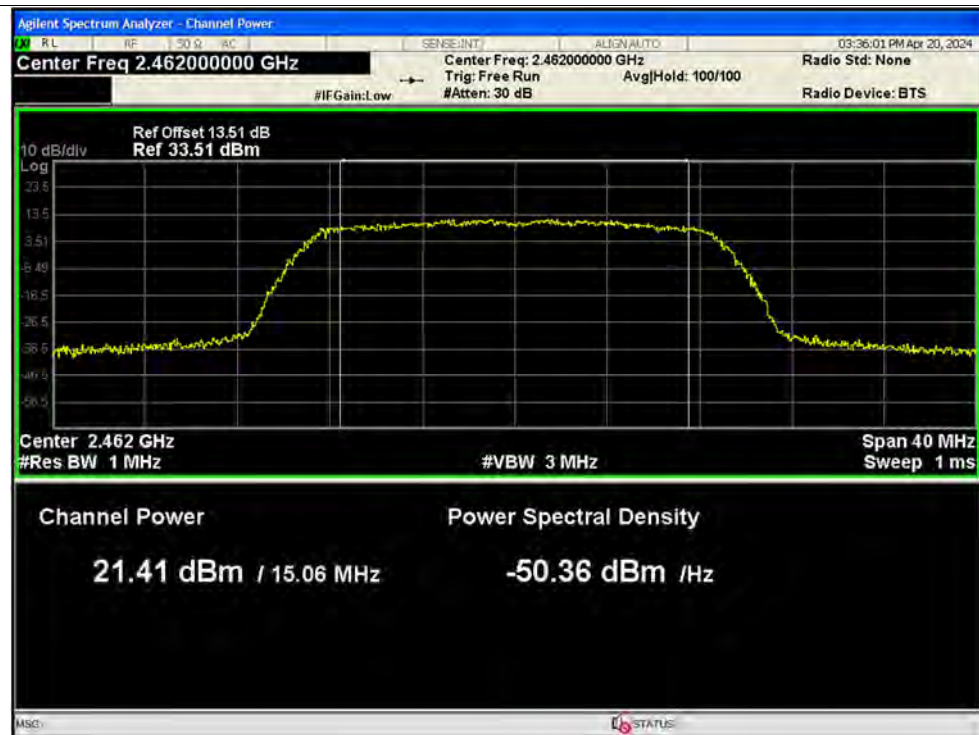
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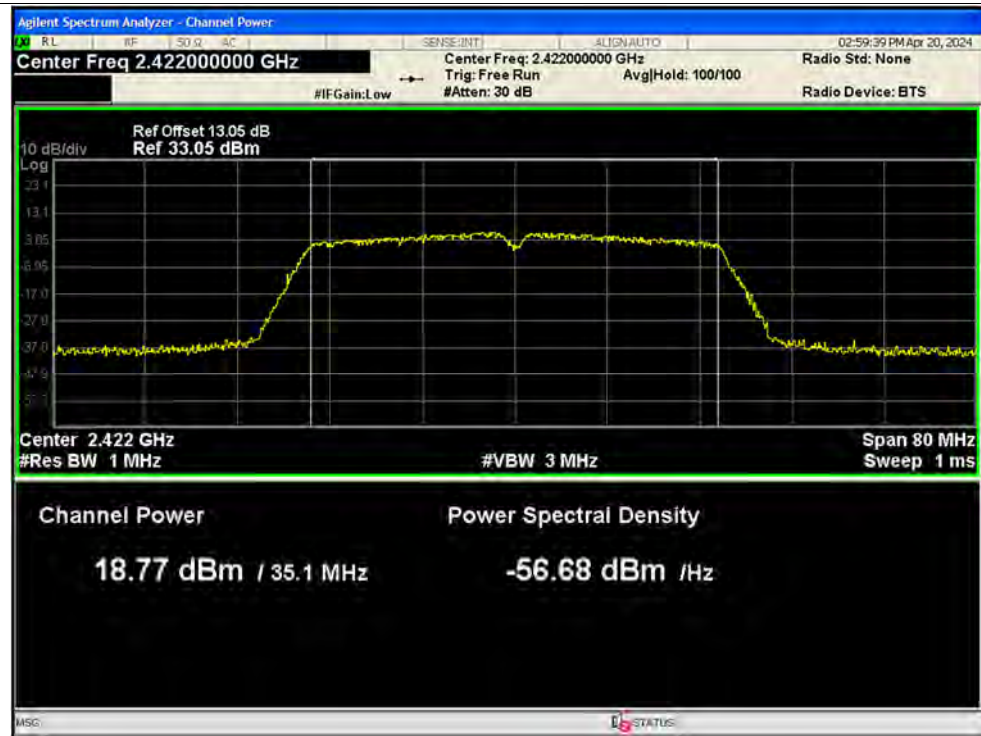
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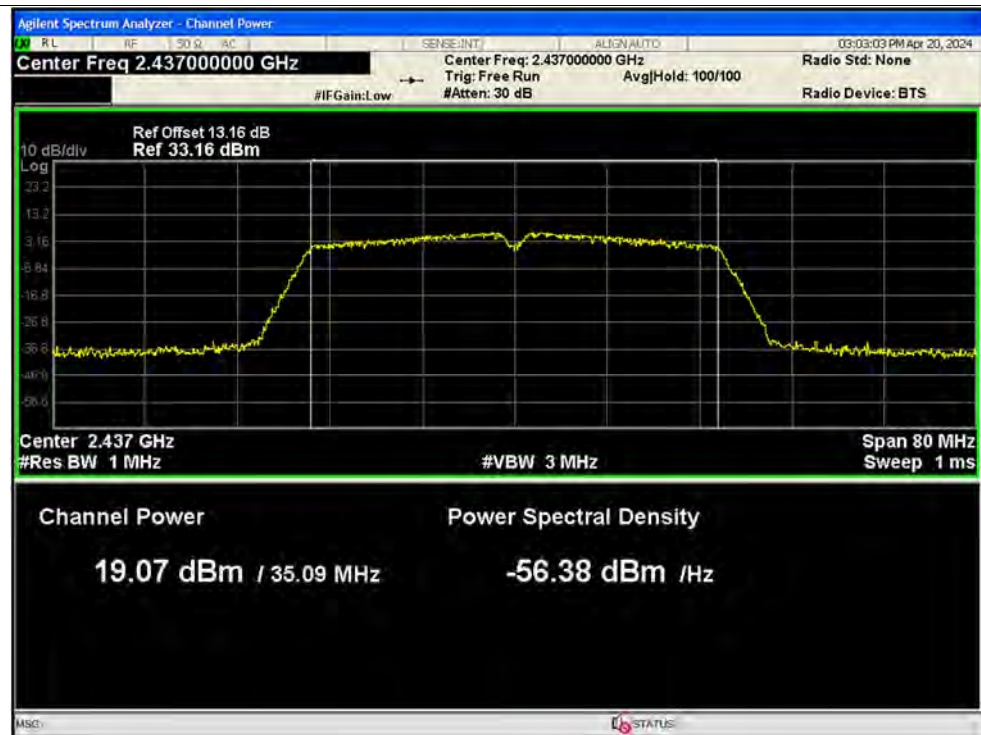
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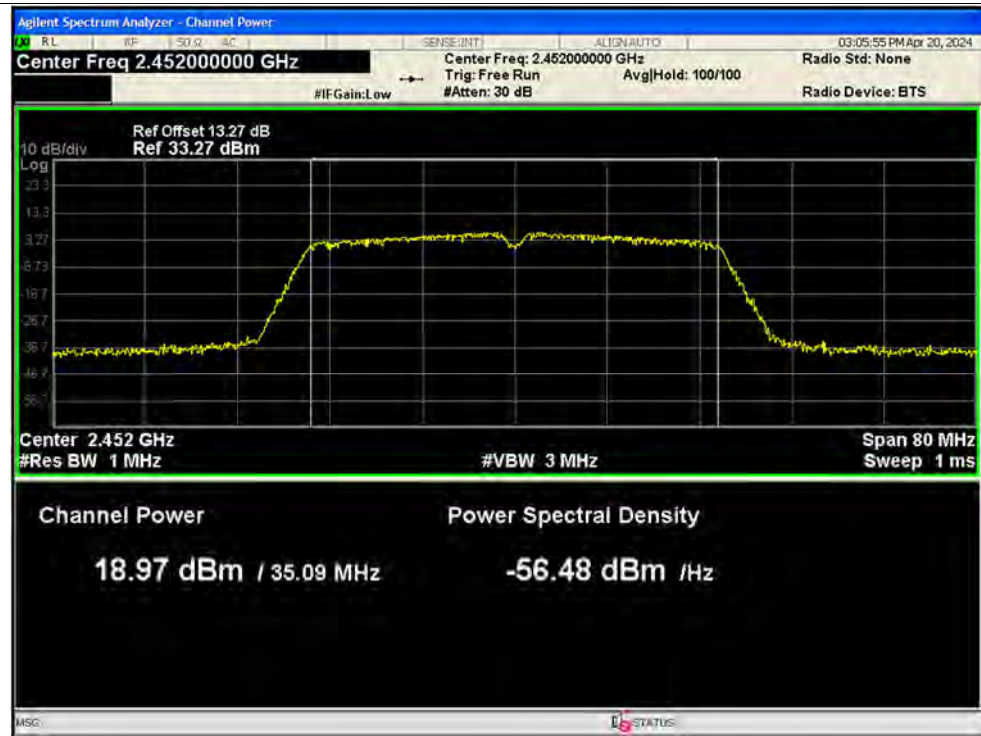
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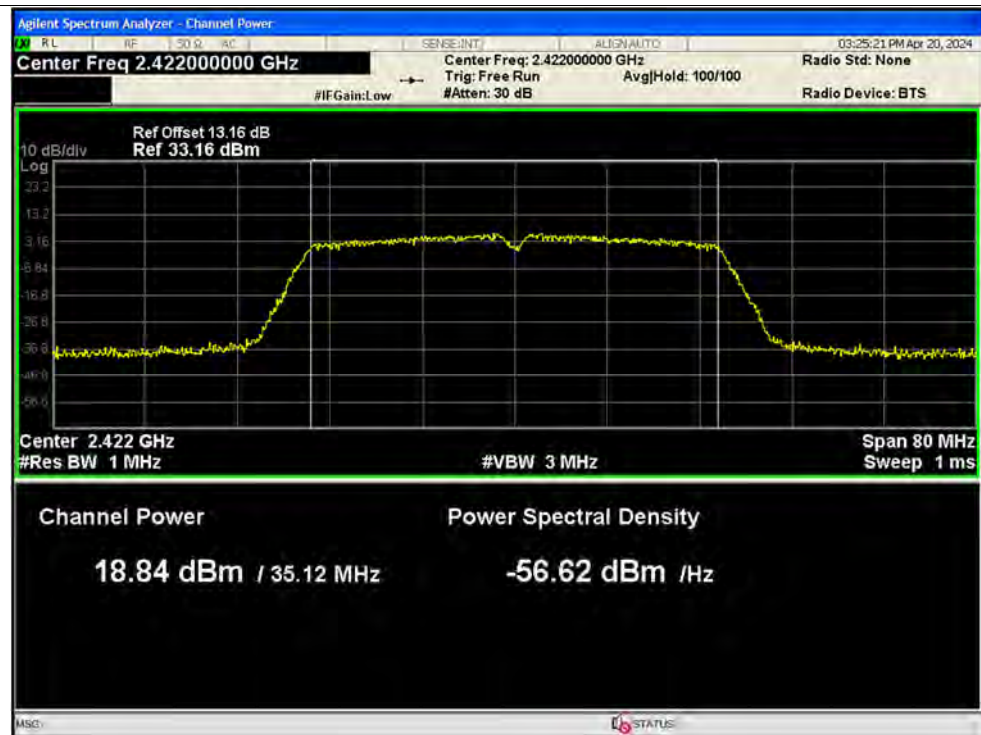
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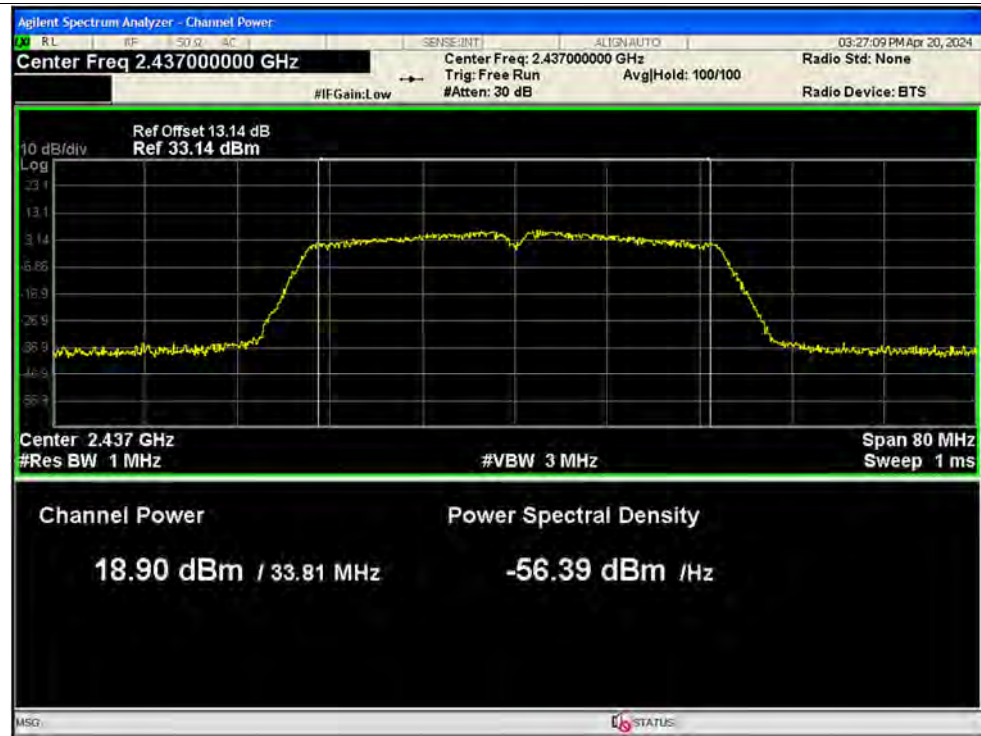
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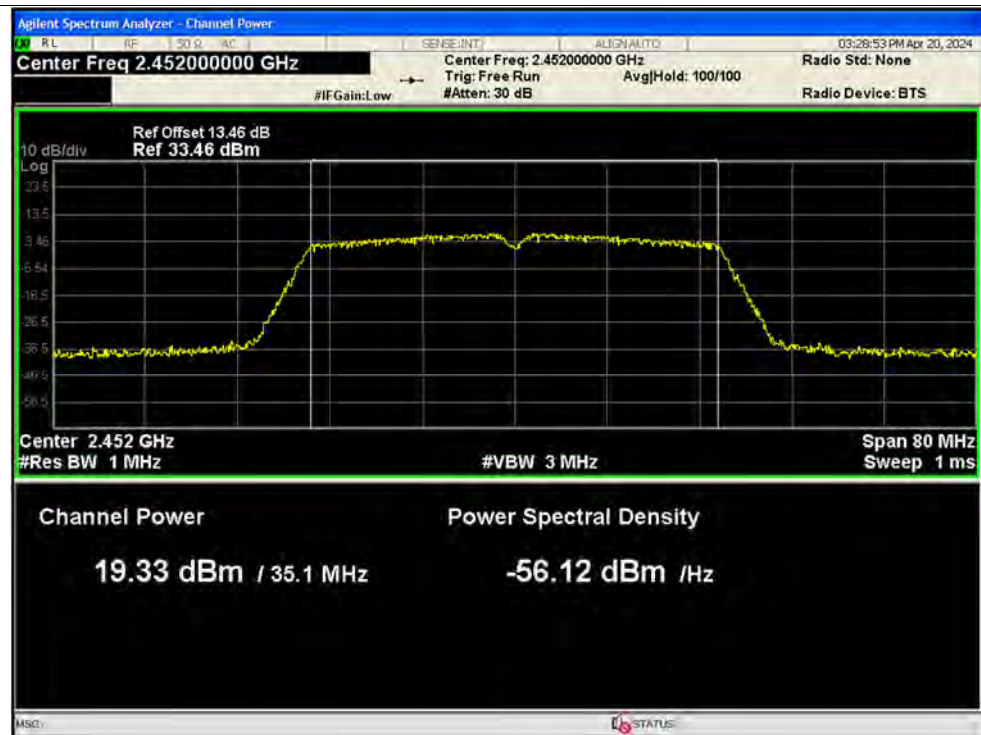
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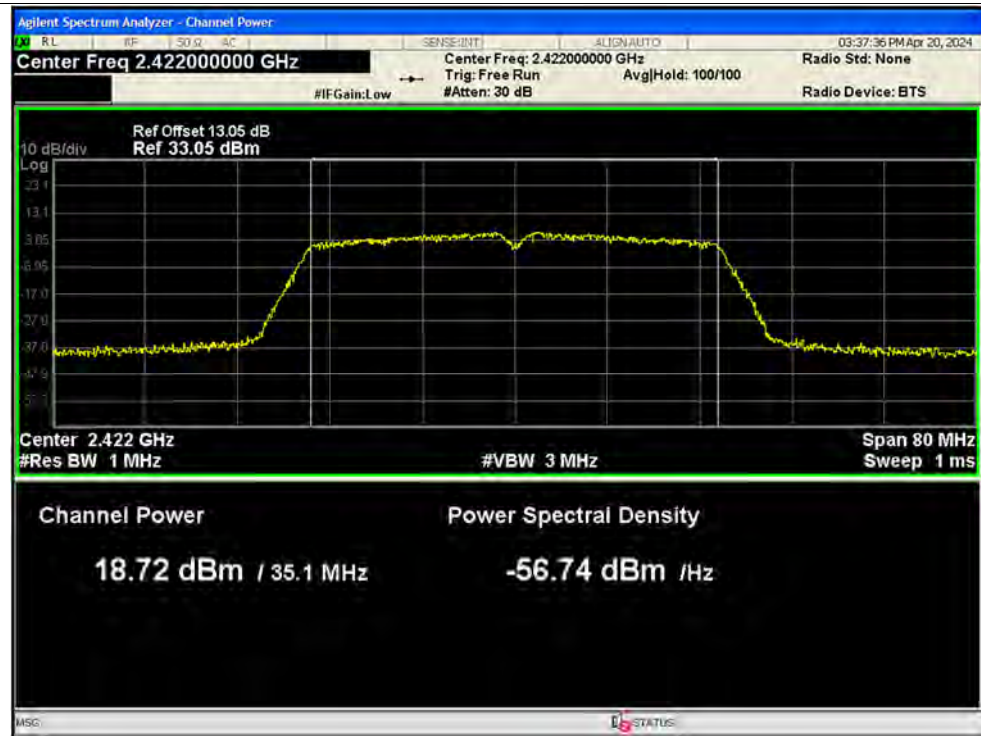
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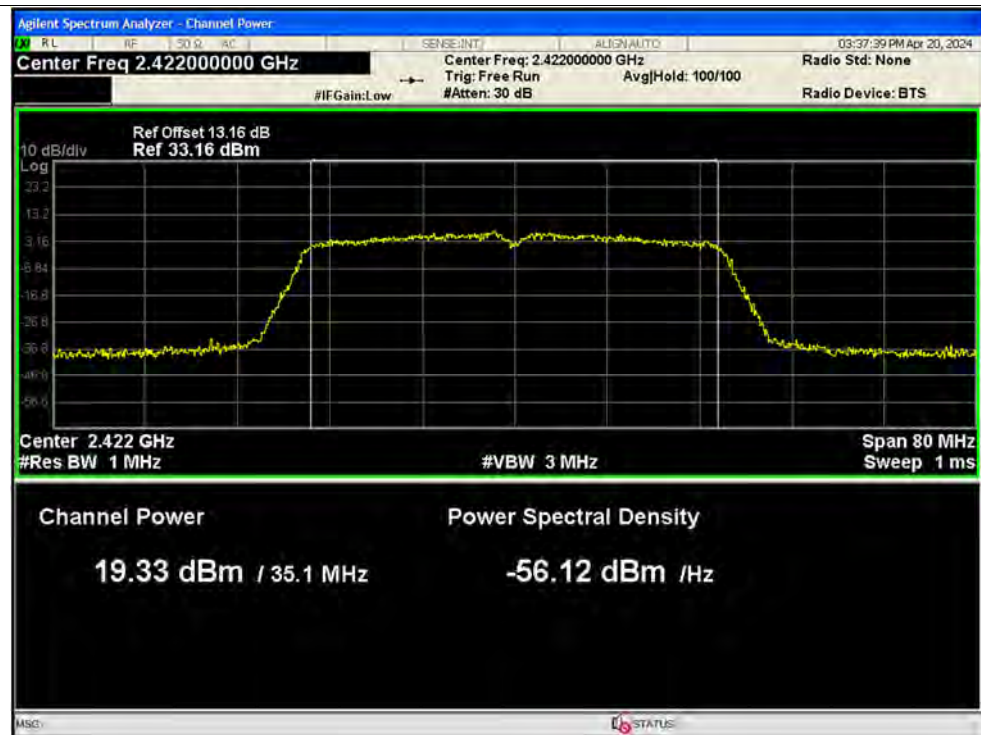
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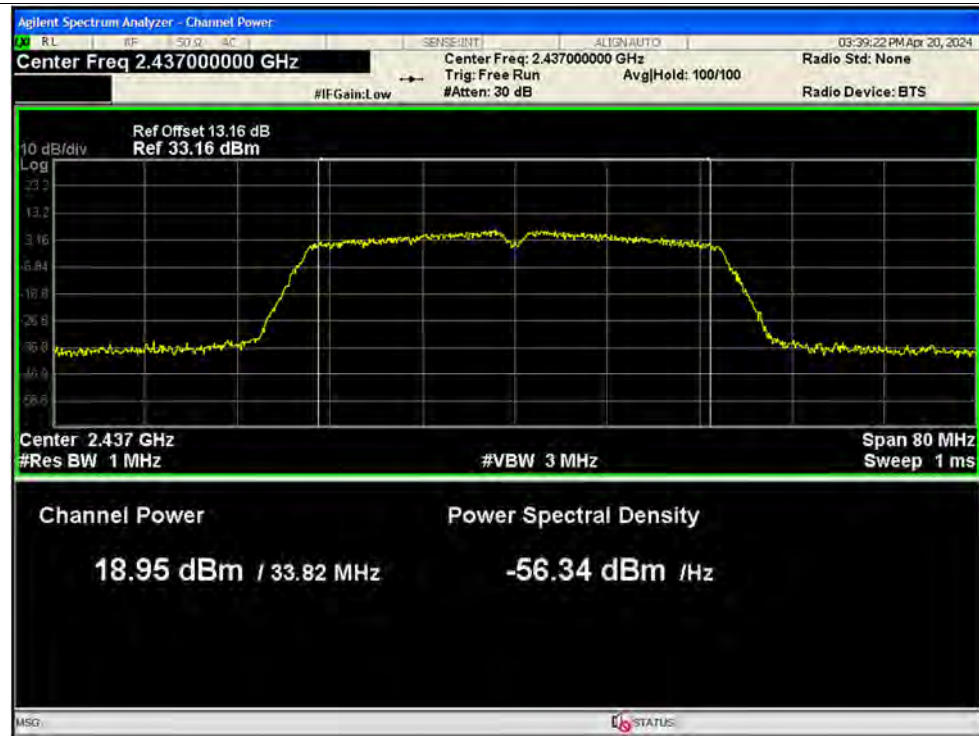
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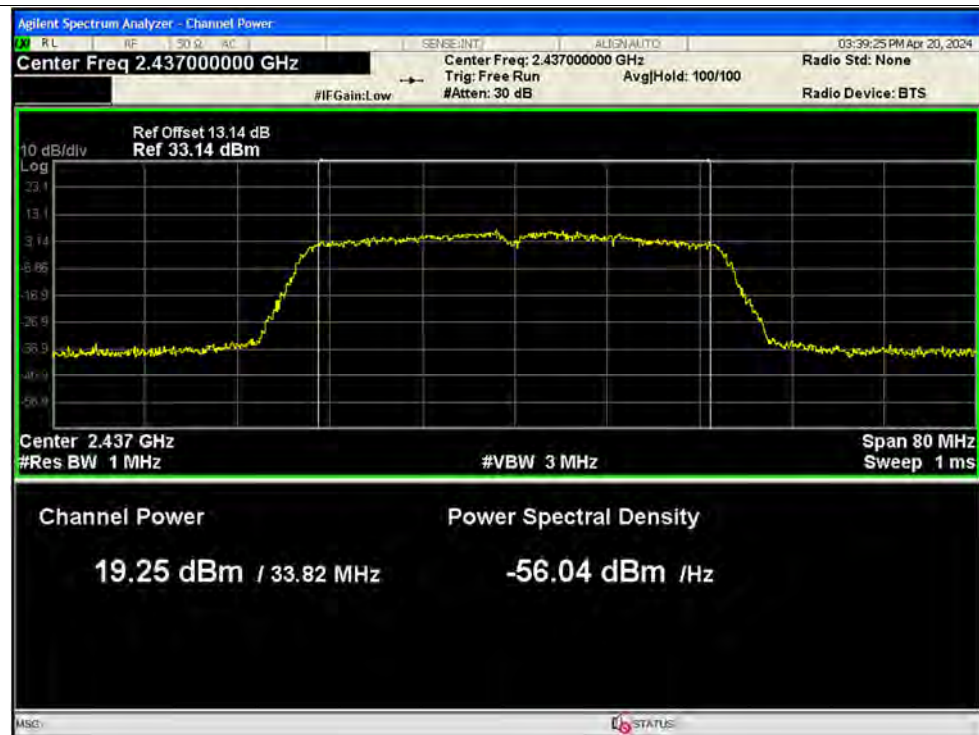
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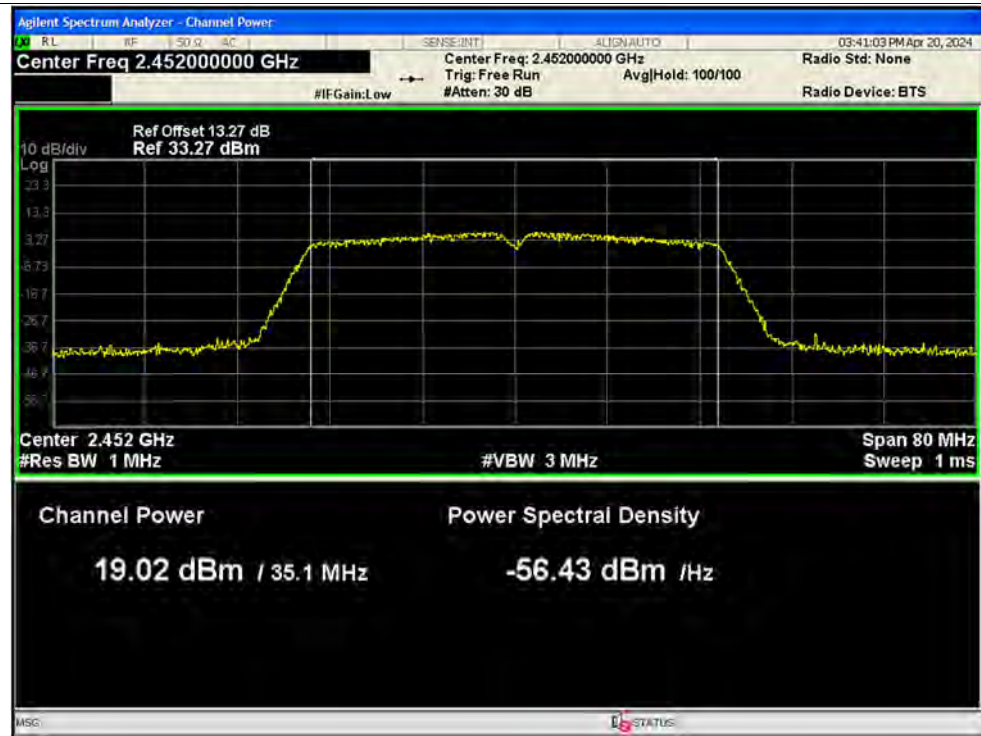
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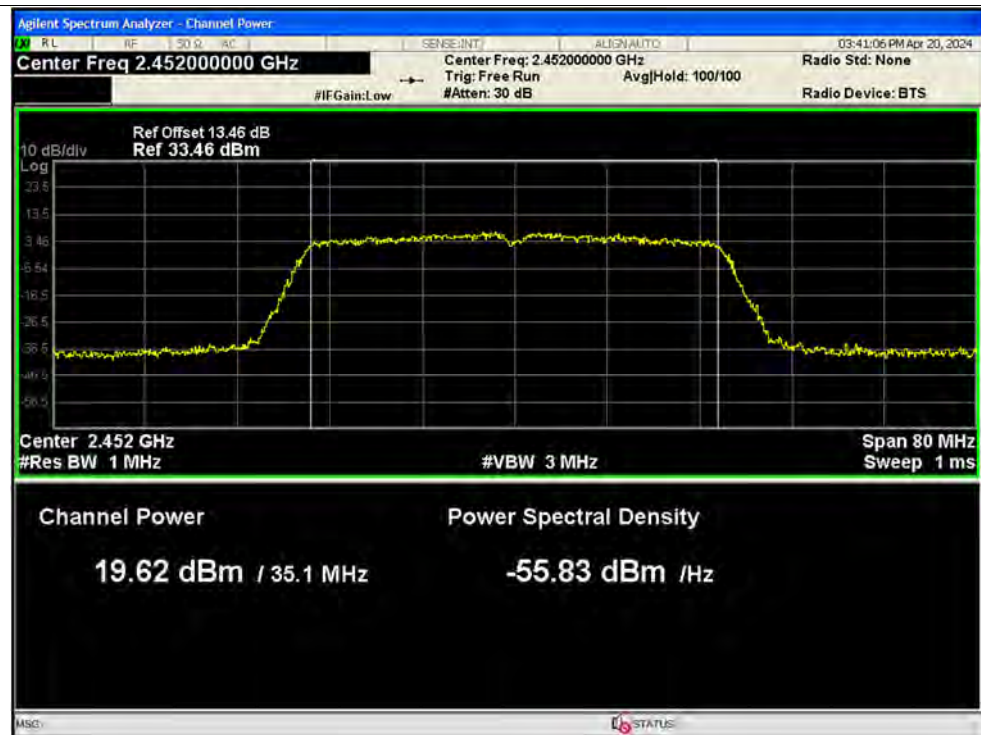
Peak Power NVNT n40 2437MHz Ant2 MIMO



Peak Power NVNT n40 2452MHz Ant1 MIMO



Peak Power NVNT n40 2452MHz Ant2 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	Ant1	12.07	0.02	12.09	0.01618	30	Pass
NVNT	b SISO	2437	Ant1	12.48	0.02	12.5	0.01778	30	Pass
NVNT	b SISO	2462	Ant1	12.4	0.02	12.42	0.01746	30	Pass
NVNT	b SISO	2412	Ant2	11.85	0.02	11.87	0.01538	30	Pass
NVNT	b SISO	2437	Ant2	12.3	0.02	12.32	0.01706	30	Pass
NVNT	b SISO	2462	Ant2	12.37	0.02	12.39	0.01734	30	Pass
NVNT	g SISO	2412	Ant1	14.53	0.15	14.68	0.02938	30	Pass
NVNT	g SISO	2437	Ant1	14.59	0.15	14.74	0.02979	30	Pass
NVNT	g SISO	2462	Ant1	14.73	0.16	14.89	0.03083	30	Pass
NVNT	g SISO	2412	Ant2	14.65	0.16	14.81	0.03027	30	Pass
NVNT	g SISO	2437	Ant2	14.56	0.15	14.71	0.02958	30	Pass
NVNT	g SISO	2462	Ant2	14.95	0.15	15.1	0.03236	30	Pass
NVNT	n20 SISO	2412	Ant1	13.28	0.16	13.44	0.02208	30	Pass
NVNT	n20 SISO	2437	Ant1	13.5	0.17	13.67	0.02328	30	Pass
NVNT	n20 SISO	2462	Ant1	13.62	0.17	13.79	0.02393	30	Pass
NVNT	n20 SISO	2412	Ant2	13.45	0.17	13.62	0.02301	30	Pass
NVNT	n20 SISO	2437	Ant2	13.41	0.17	13.58	0.0228	30	Pass
NVNT	n20 SISO	2462	Ant2	13.76	0.17	13.93	0.02472	30	Pass
NVNT	n20 MIMO	2412	Ant1	13.51	0.17	13.68	0.02333	30	Pass
NVNT	n20 MIMO	2412	Ant2	13.81	0.17	13.98	0.025	30	Pass
NVNT	n20 MIMO	2412	Sum	NaN	NaN	16.84	0.04834	30	Pass
NVNT	n20 MIMO	2437	Ant1	13.59	0.17	13.76	0.02377	30	Pass
NVNT	n20	2437	Ant2	13.64	0.17	13.81	0.02404	30	Pass

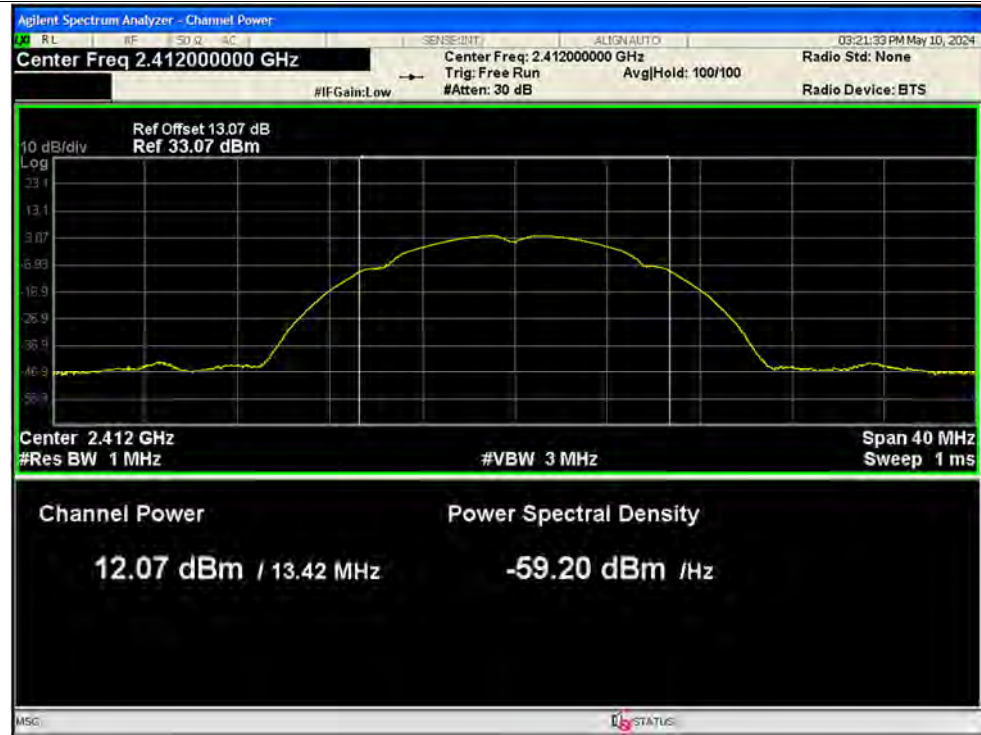


REPORT No.: SZ24030326W03

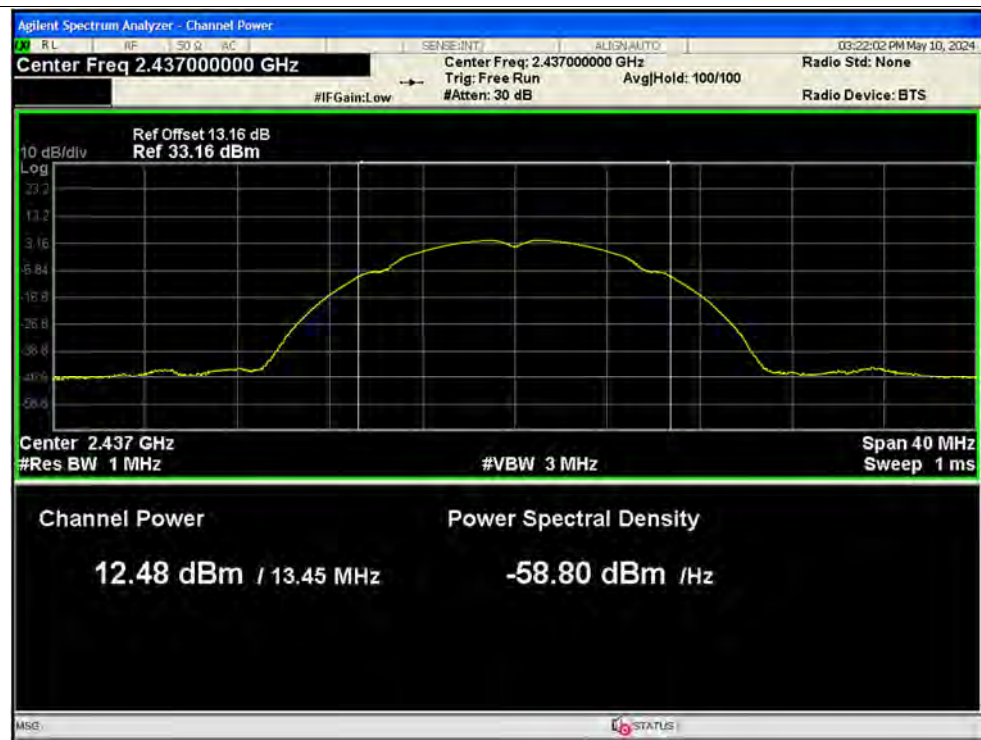
	MIMO								
NVNT	n20 MIMO	2437	Sum	NaN	NaN	16.8	0.04781	30	Pass
NVNT	n20 MIMO	2462	Ant1	13.61	0.17	13.78	0.02388	30	Pass
NVNT	n20 MIMO	2462	Ant2	14.02	0.17	14.19	0.02624	30	Pass
NVNT	n20 MIMO	2462	Sum	NaN	NaN	17	0.05012	30	Pass
NVNT	n40 SISO	2422	Ant1	11.36	0.32	11.68	0.01472	30	Pass
NVNT	n40 SISO	2437	Ant1	11.53	0.34	11.87	0.01538	30	Pass
NVNT	n40 SISO	2452	Ant1	11.6	0.33	11.93	0.0156	30	Pass
NVNT	n40 SISO	2422	Ant2	11.51	0.33	11.84	0.01528	30	Pass
NVNT	n40 SISO	2437	Ant2	11.45	0.34	11.79	0.0151	30	Pass
NVNT	n40 SISO	2452	Ant2	11.99	0.34	12.33	0.0171	30	Pass
NVNT	n40 MIMO	2422	Ant1	11.13	0.32	11.45	0.01396	30	Pass
NVNT	n40 MIMO	2422	Ant2	11.54	0.32	11.86	0.01535	30	Pass
NVNT	n40 MIMO	2422	Sum	NaN	NaN	14.67	0.02931	30	Pass
NVNT	n40 MIMO	2437	Ant1	11.61	0.32	11.93	0.0156	30	Pass
NVNT	n40 MIMO	2437	Ant2	11.58	0.32	11.9	0.01549	30	Pass
NVNT	n40 MIMO	2437	Sum	NaN	NaN	14.92	0.03108	30	Pass
NVNT	n40 MIMO	2452	Ant1	11.58	0.32	11.9	0.01549	30	Pass
NVNT	n40 MIMO	2452	Ant2	11.79	0.32	12.11	0.01626	30	Pass
NVNT	n40 MIMO	2452	Sum	NaN	NaN	15.02	0.03174	30	Pass

Test Graphs

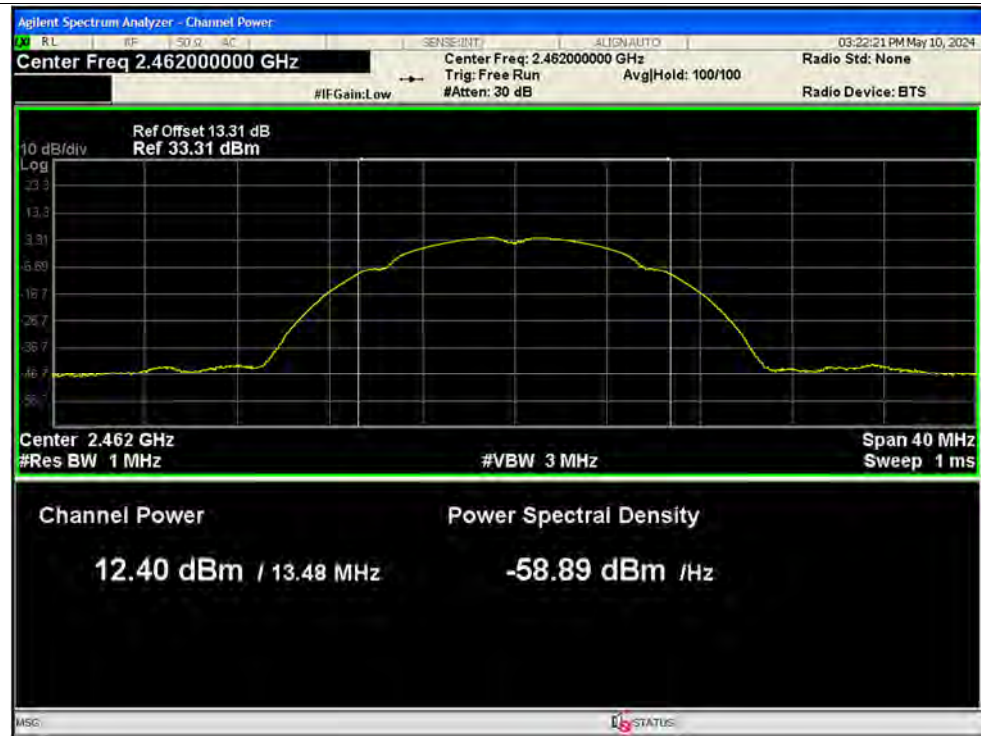
Average Power NVNT b 2412MHz Ant1 SISO



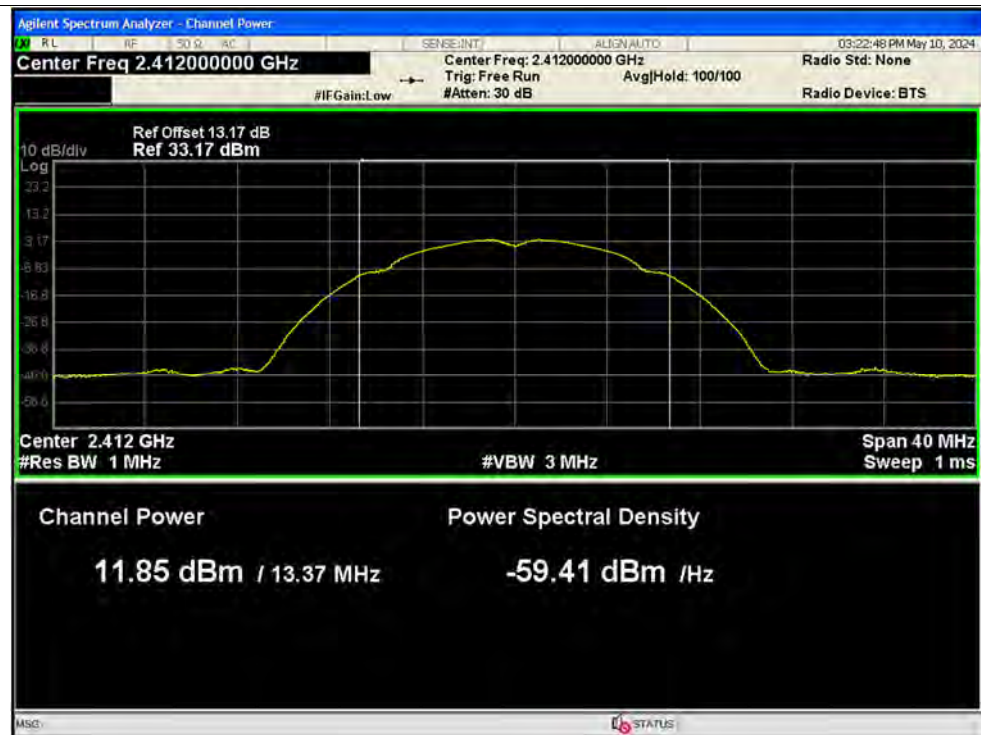
Average Power NVNT b 2437MHz Ant1 SISO



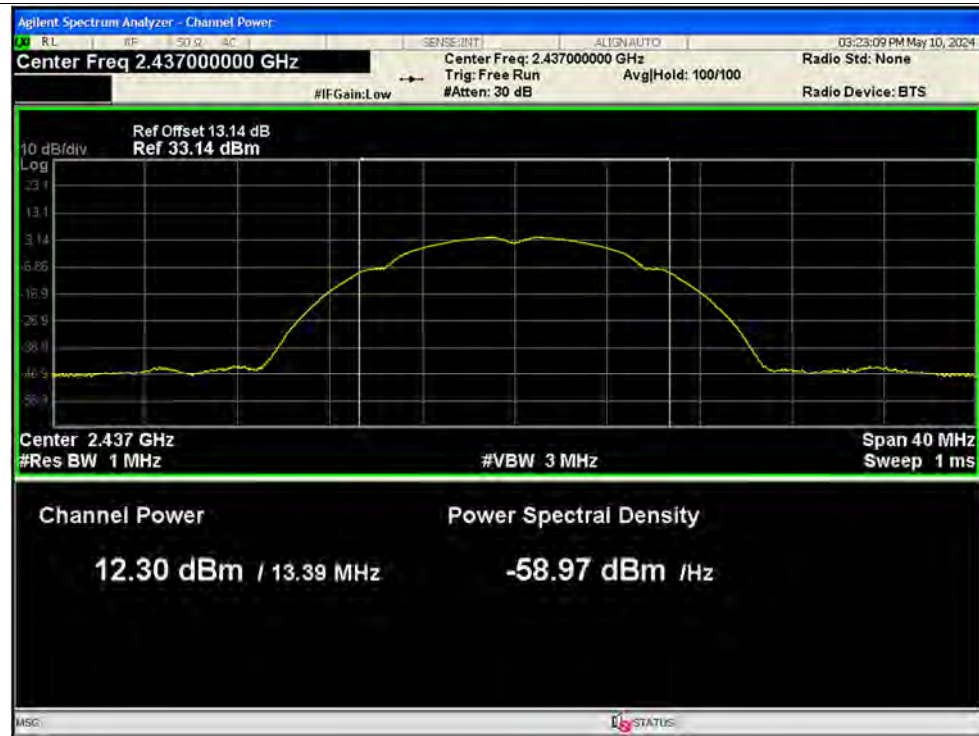
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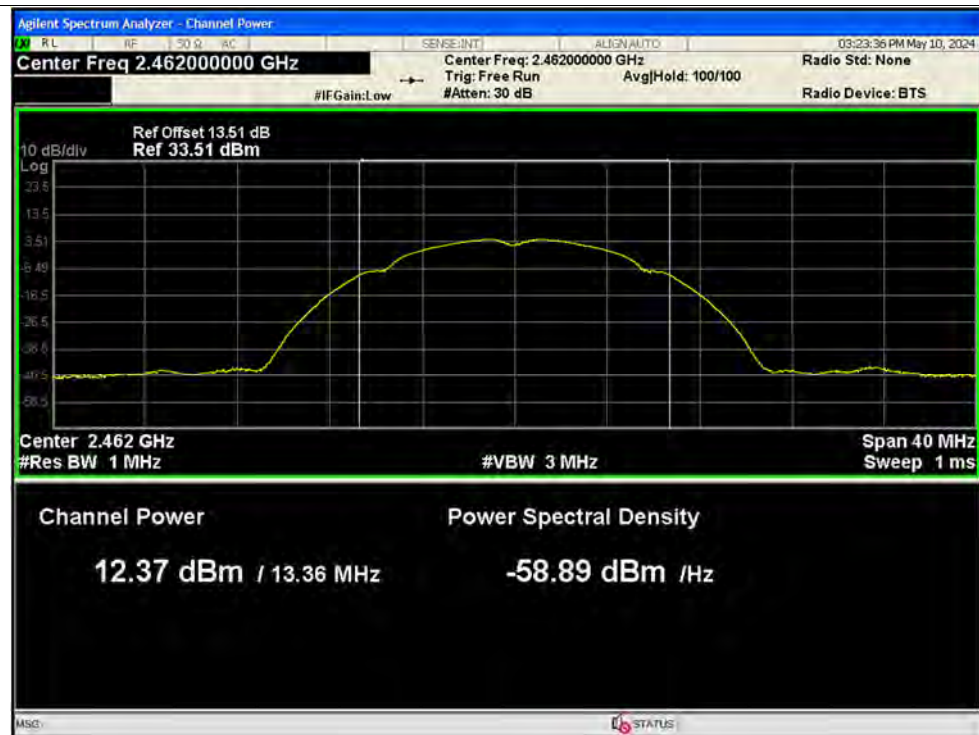
Average Power NVNT b 2412MHz Ant2 SISO



Average Power NVNT b 2437MHz Ant2 SISO

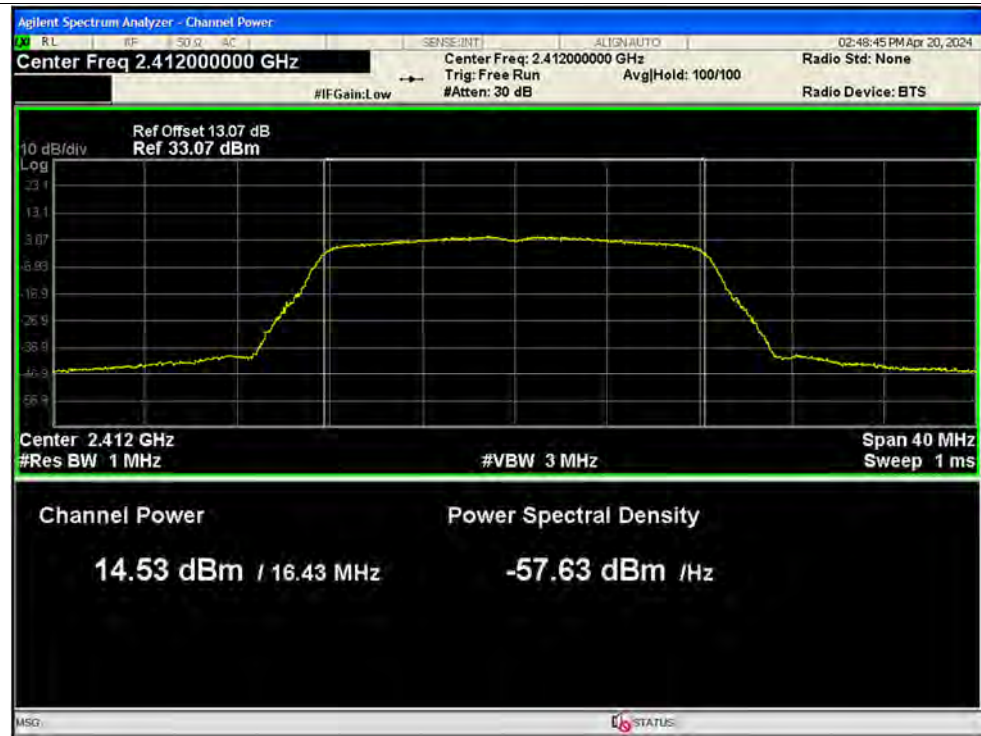


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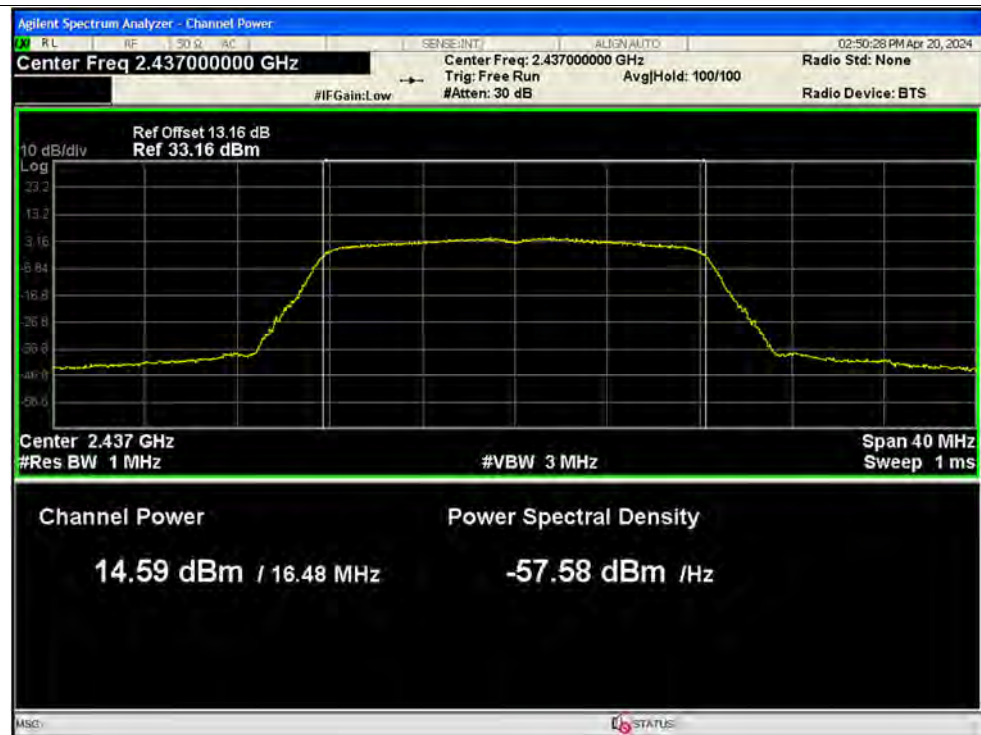




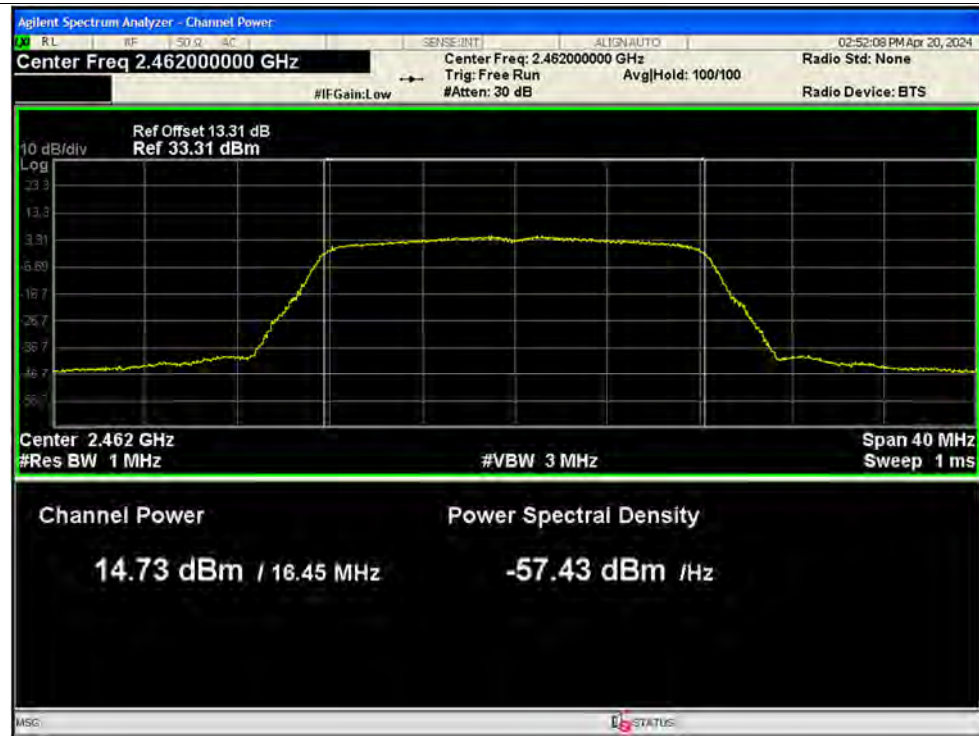
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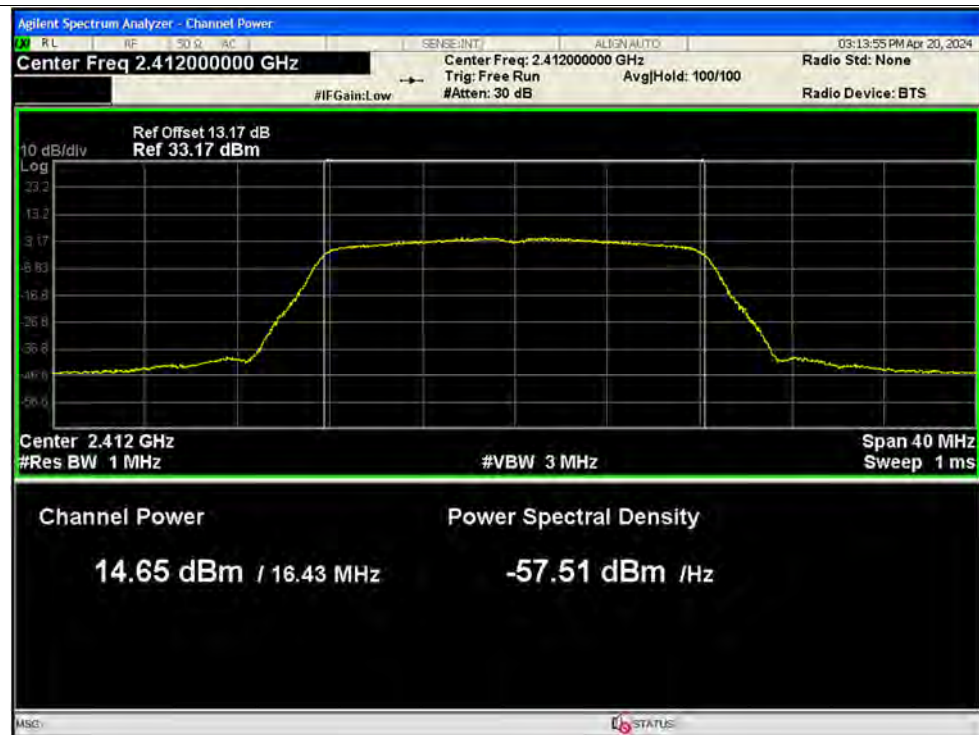
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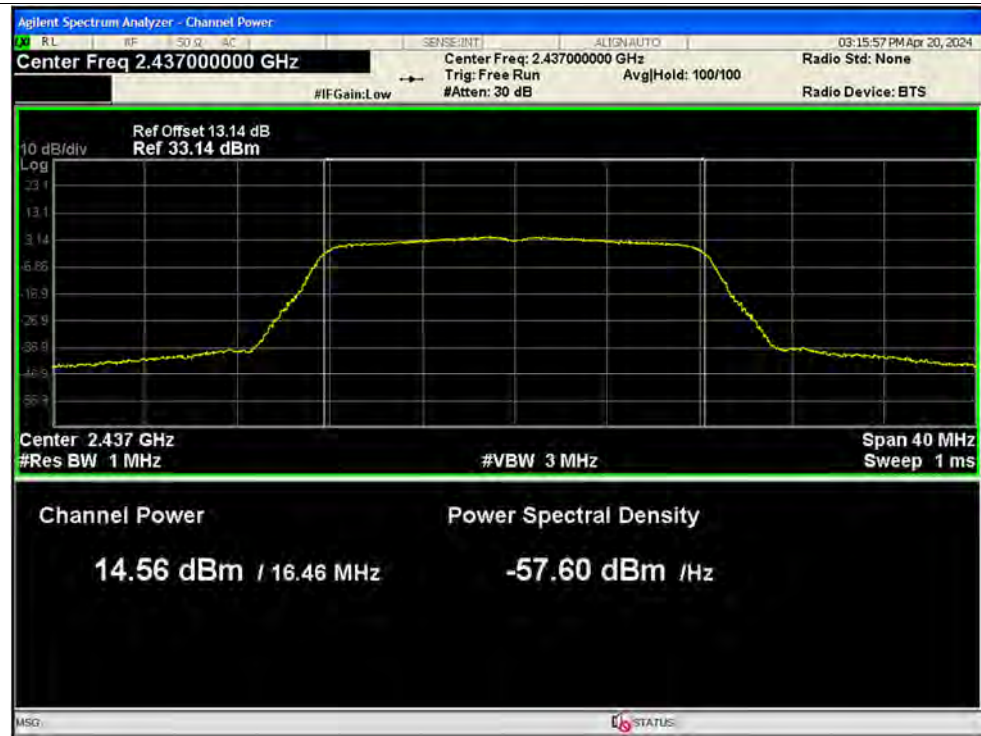
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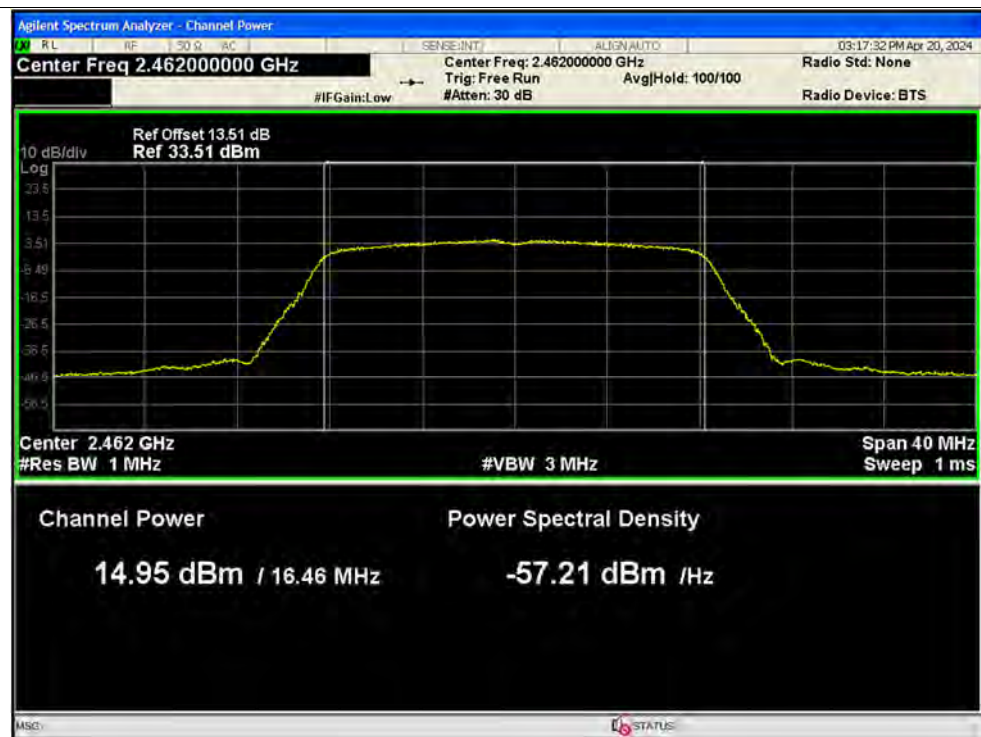
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Average Power NVNT g 2437MHz Ant2 SISO

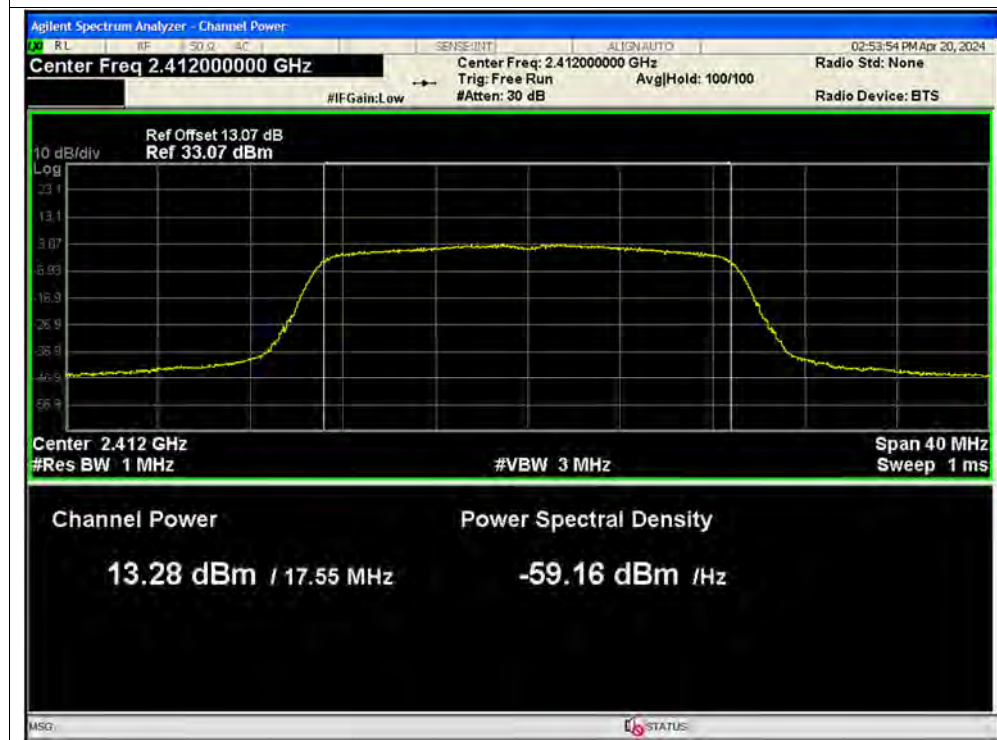


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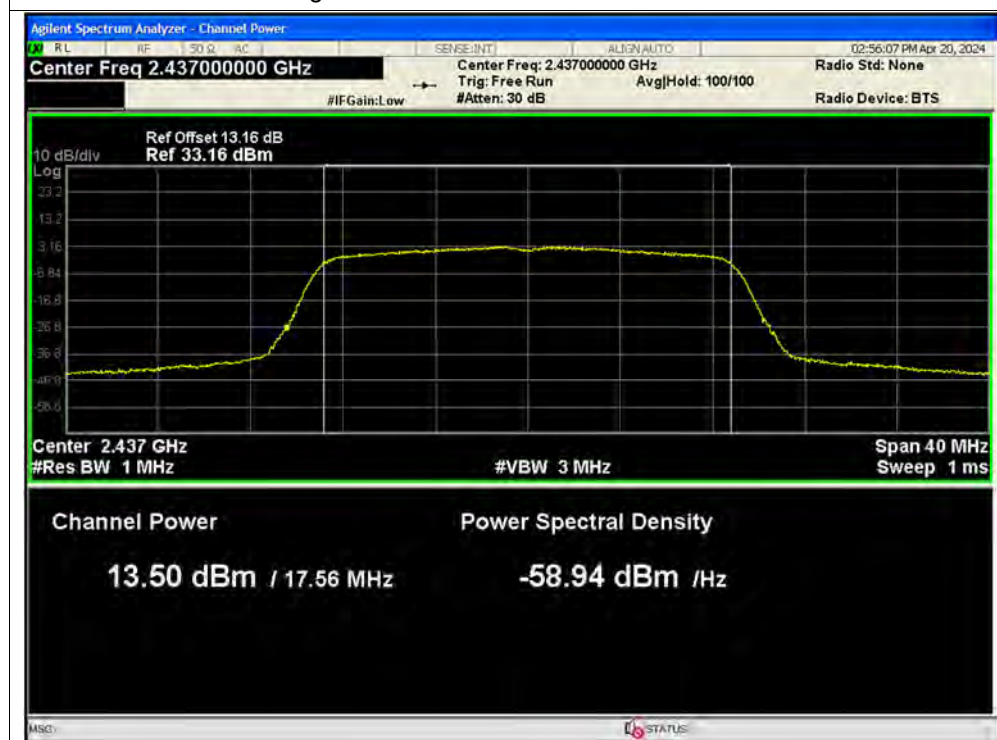




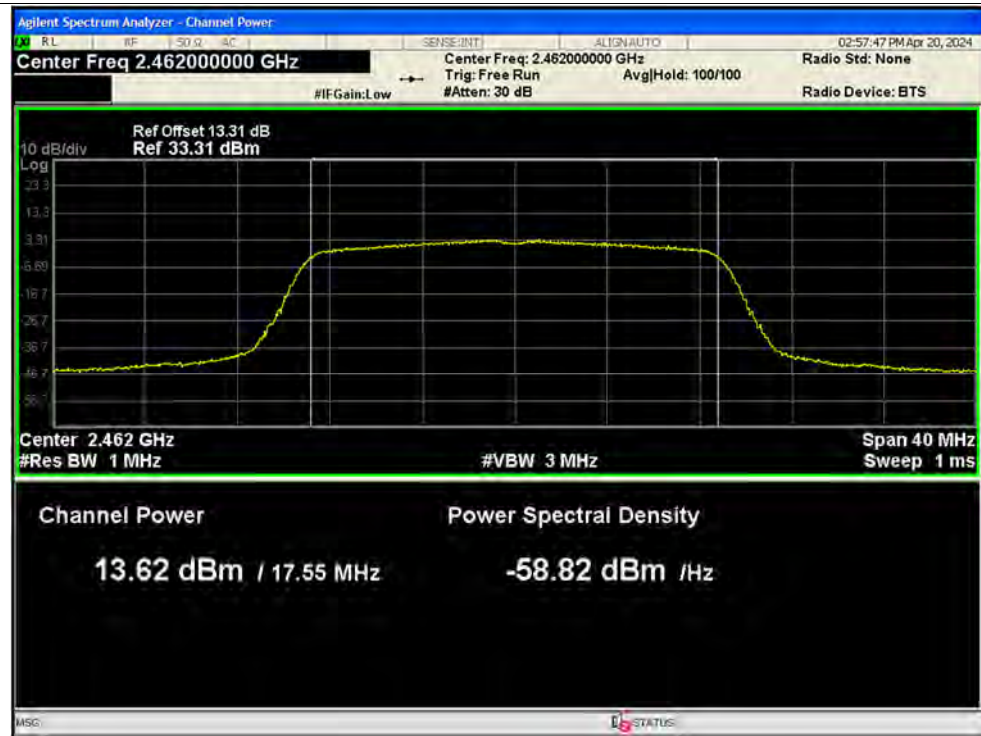
Average Power NVNT n20 2412MHz Ant1 SISO



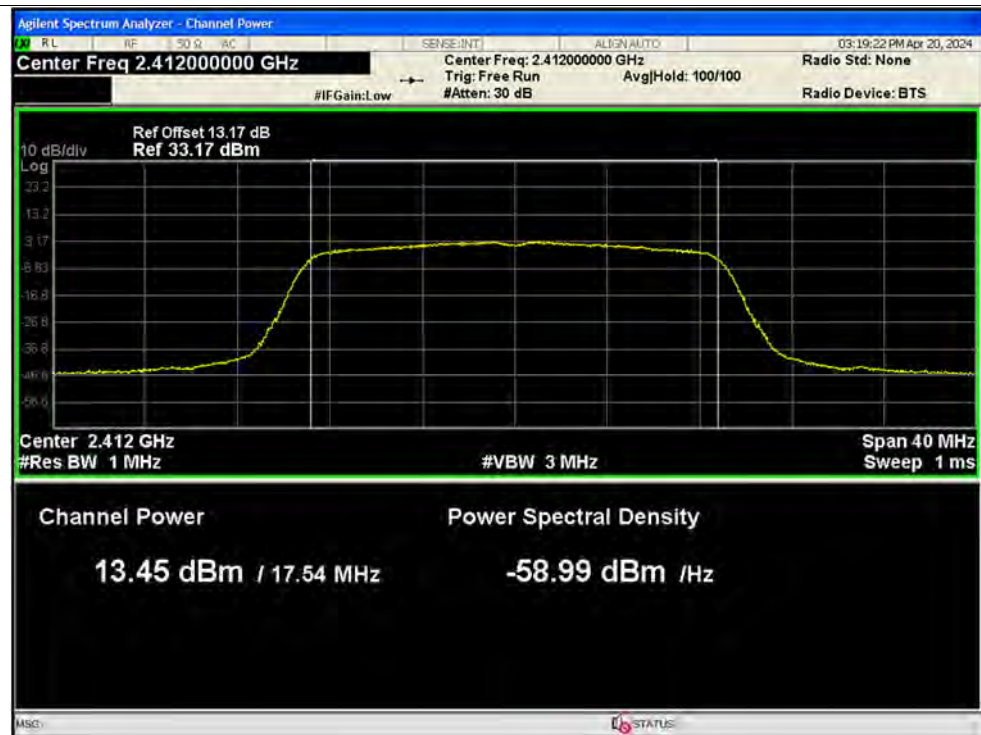
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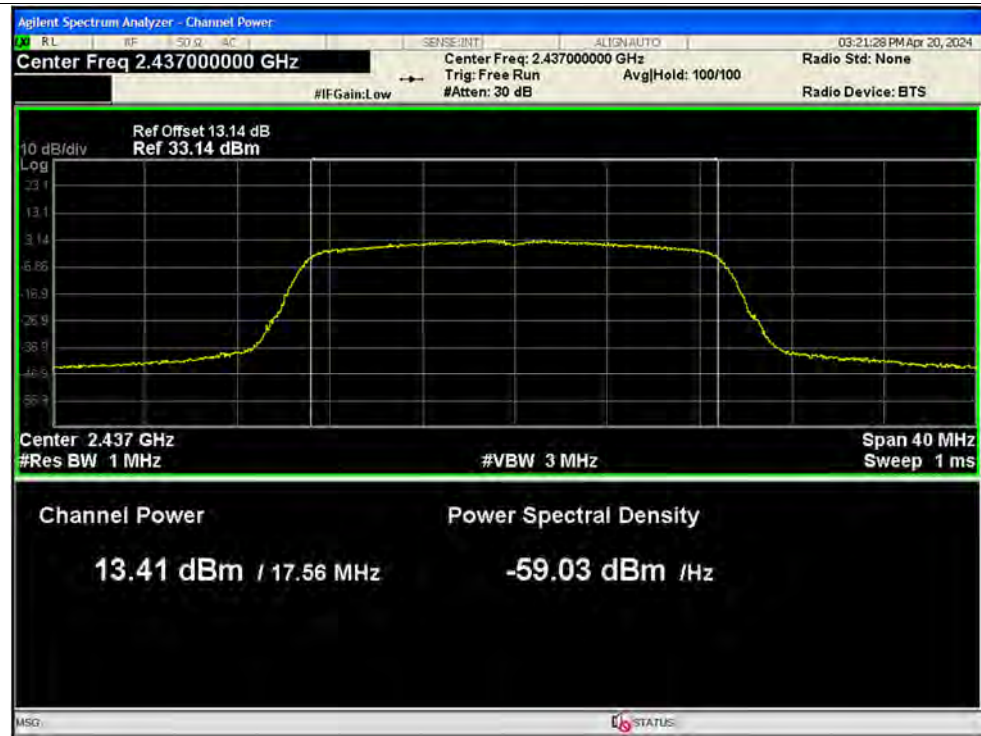
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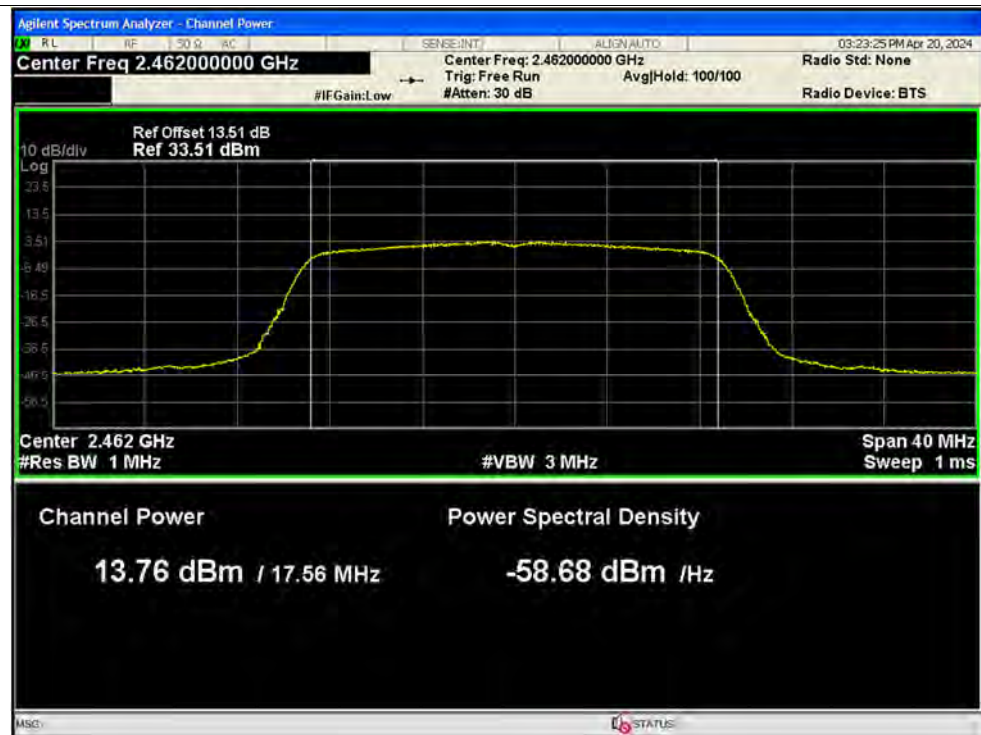
Average Power NVNT n20 2412MHz Ant2 SISO



Average Power NVNT n20 2437MHz Ant2 SISO

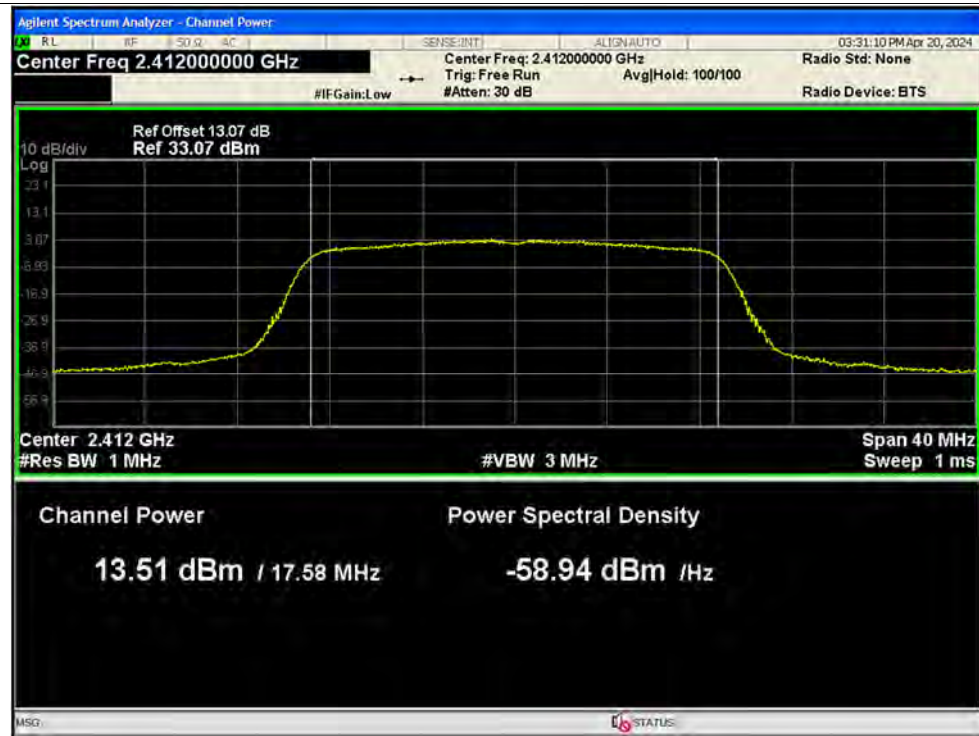


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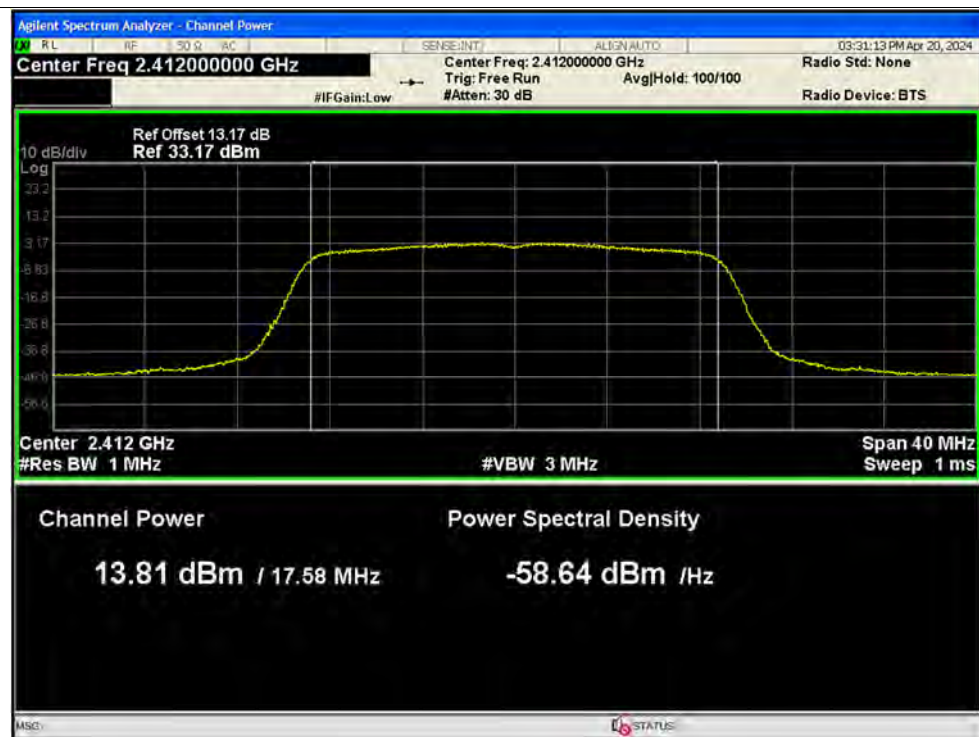




Average Power NVNT n20 2412MHz Ant1 MIMO

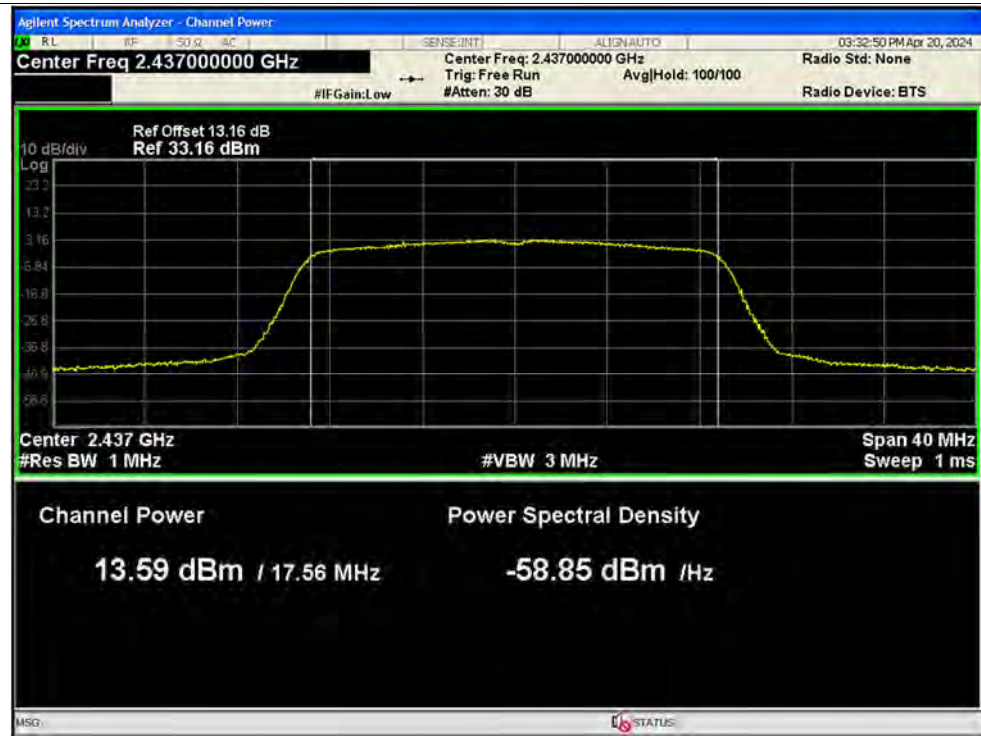


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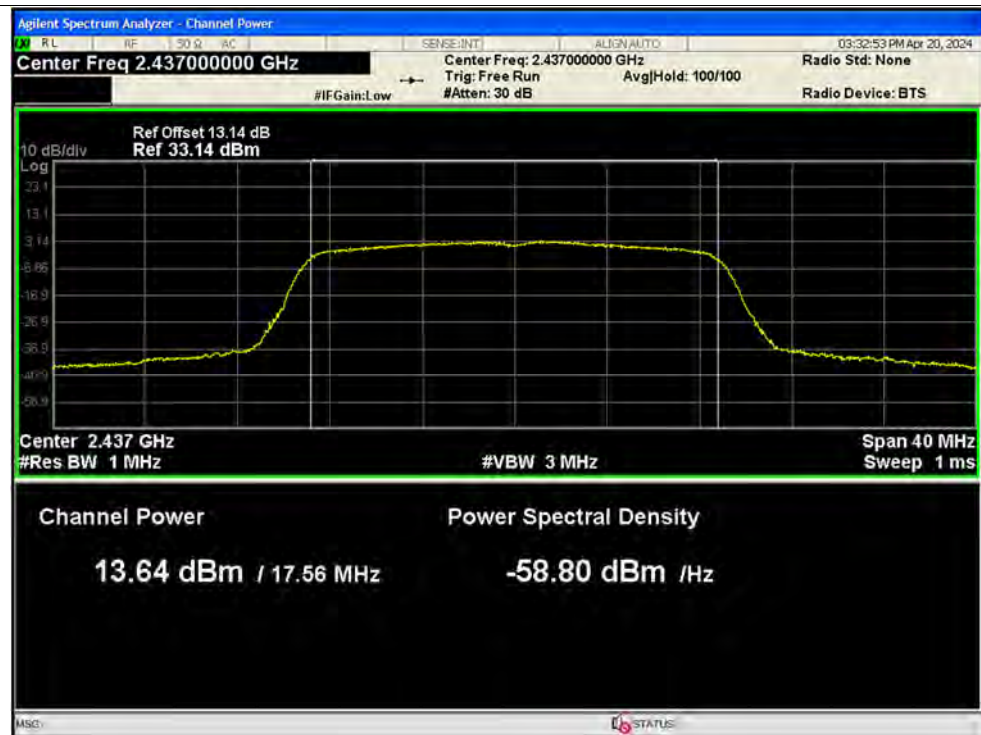




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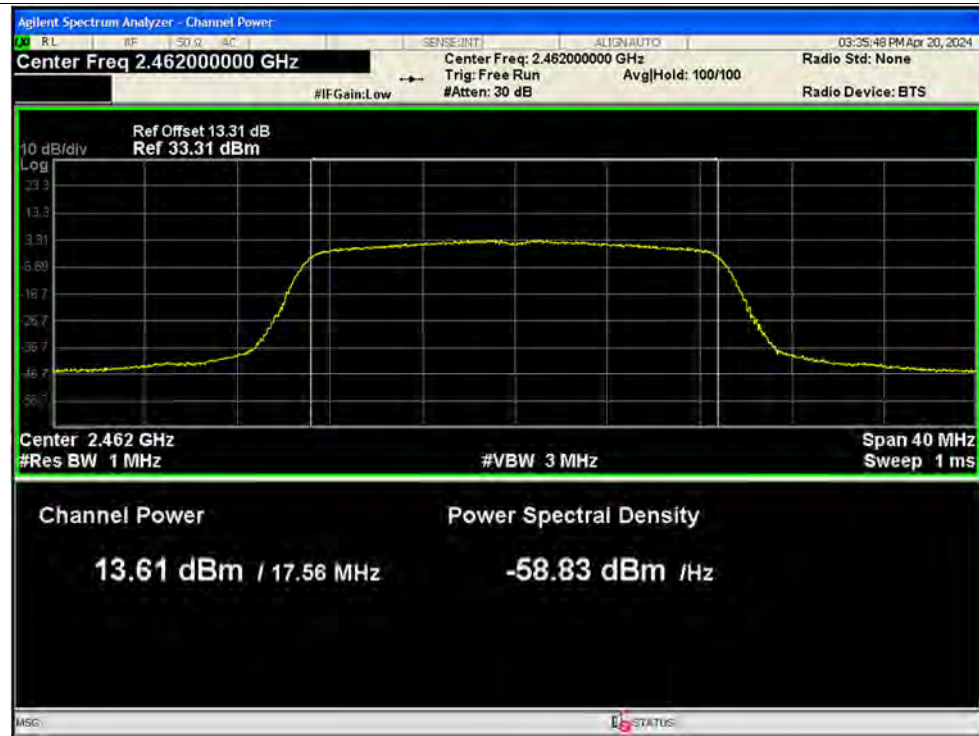


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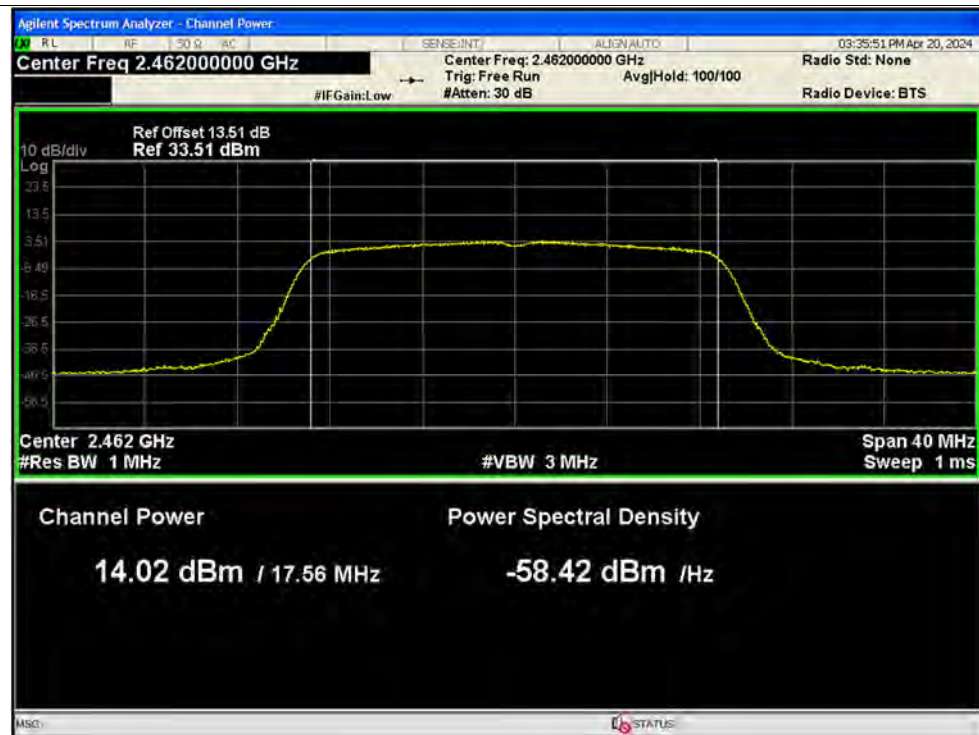




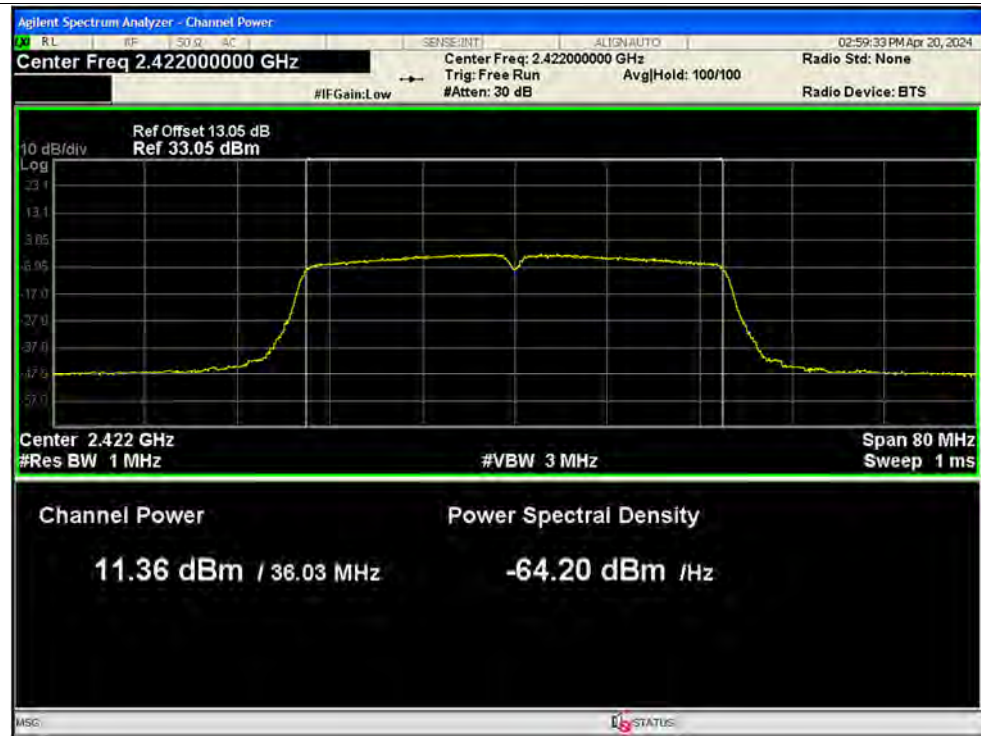
Average Power NVNT n20 2462MHz Ant1 MIMO



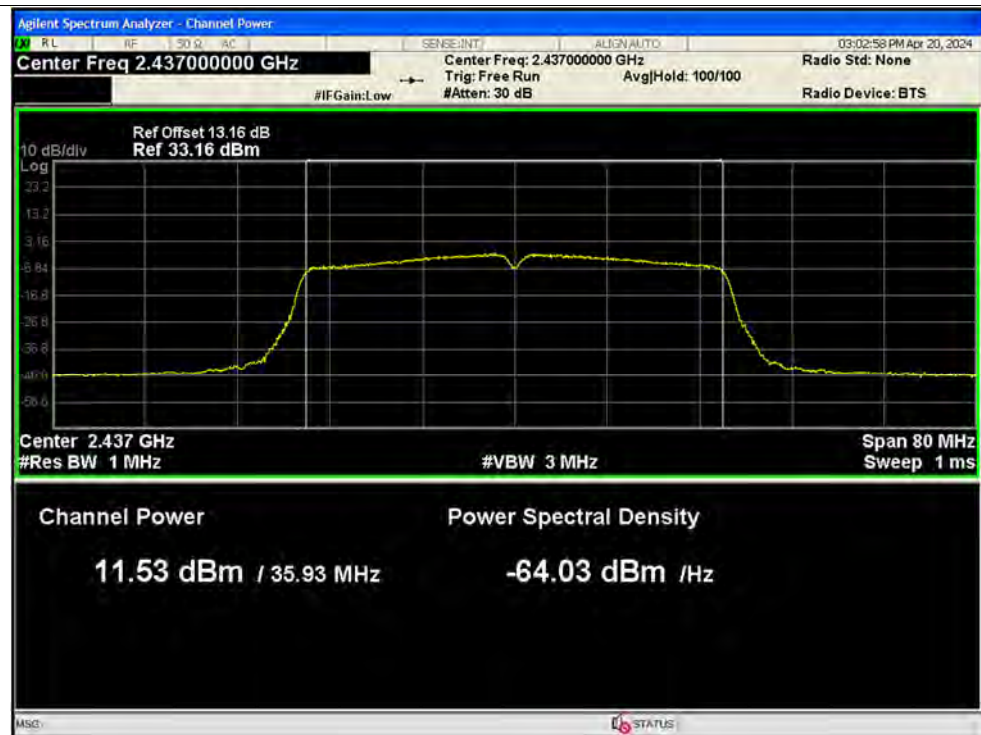
Average Power NVNT n20 2462MHz Ant2 MIMO



Average Power NVNT n40 2422MHz Ant1 SISO

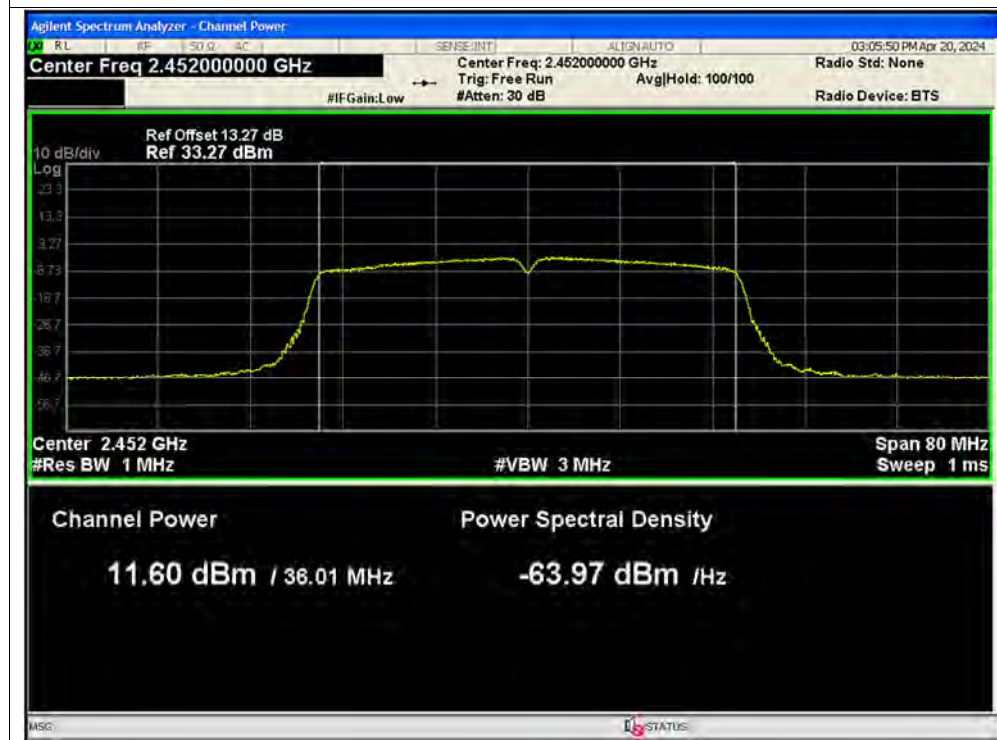


Average Power NVNT n40 2437MHz Ant1 SISO

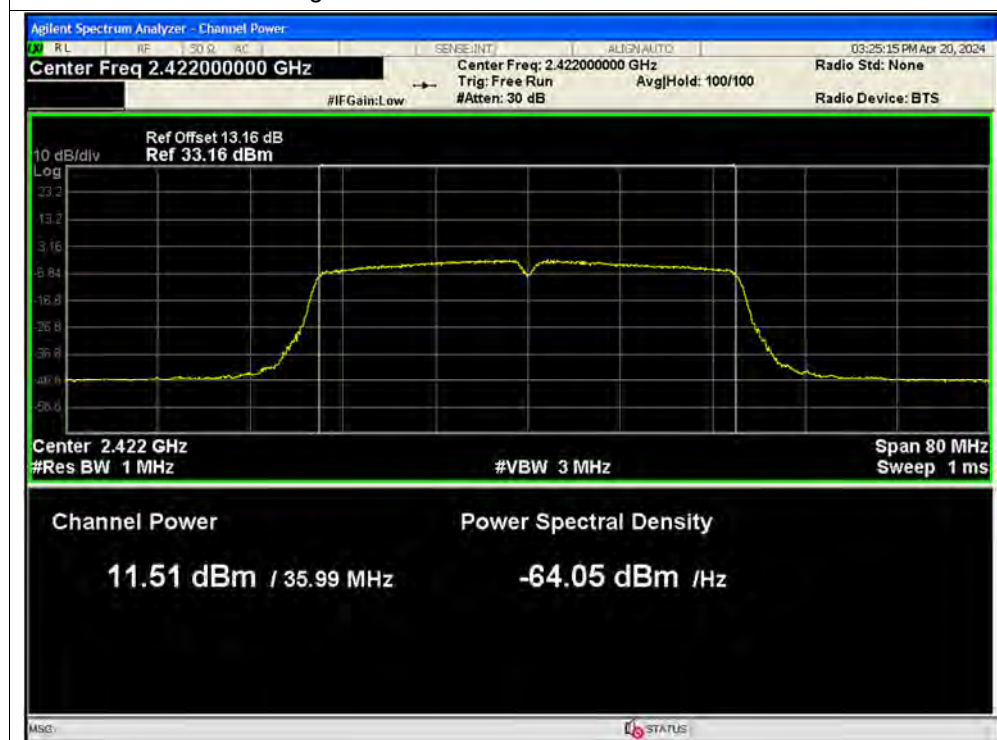




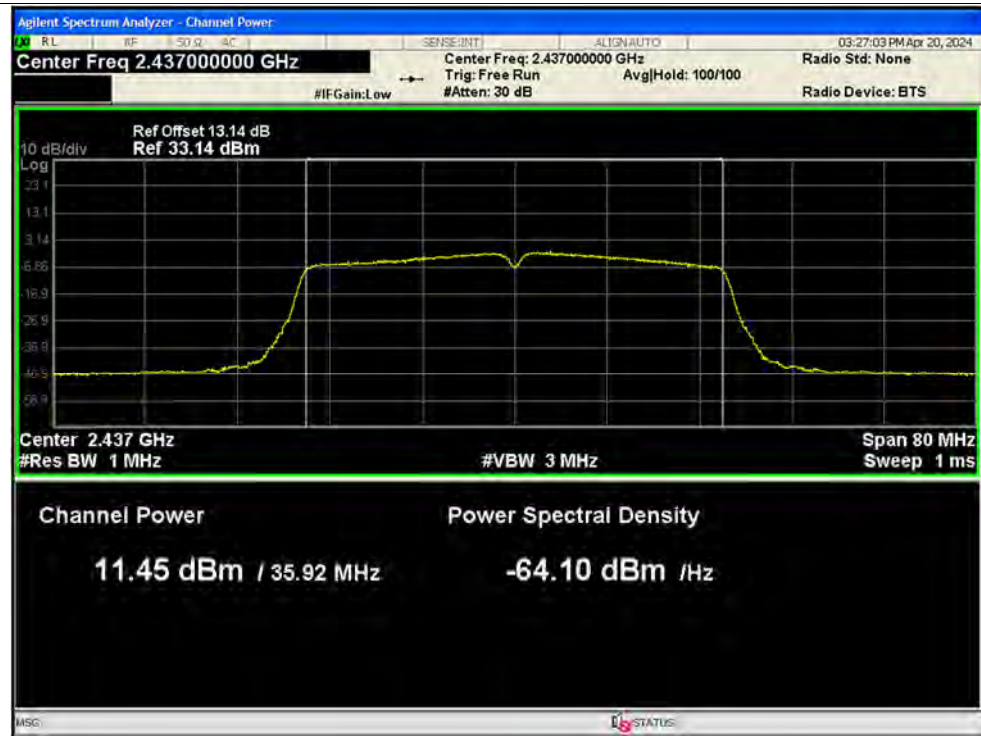
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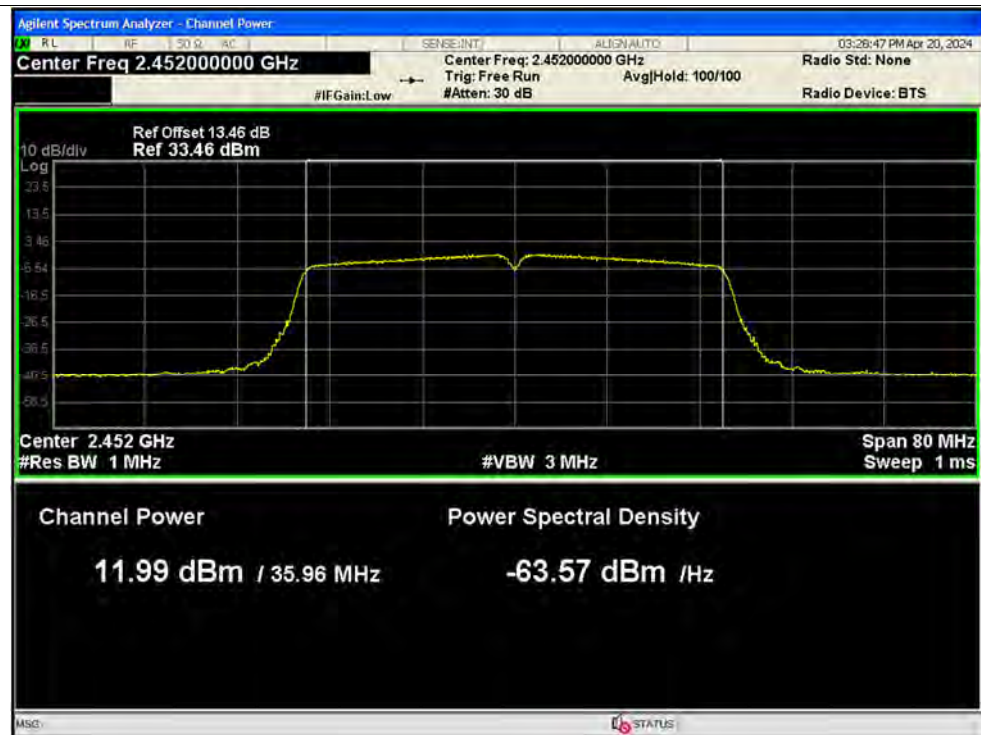
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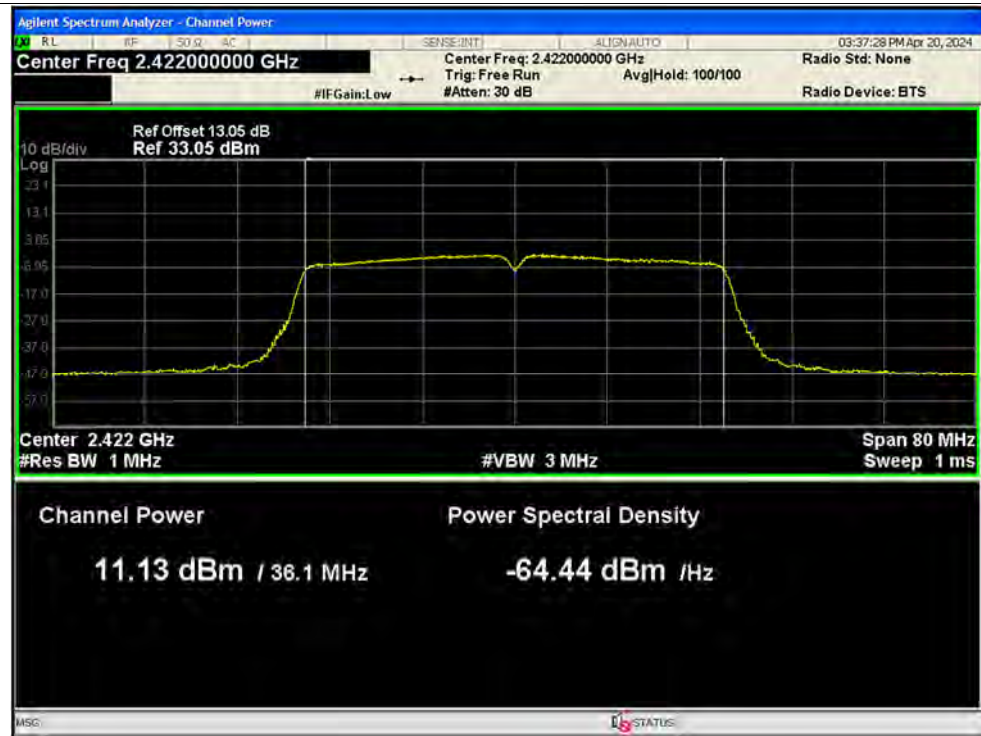
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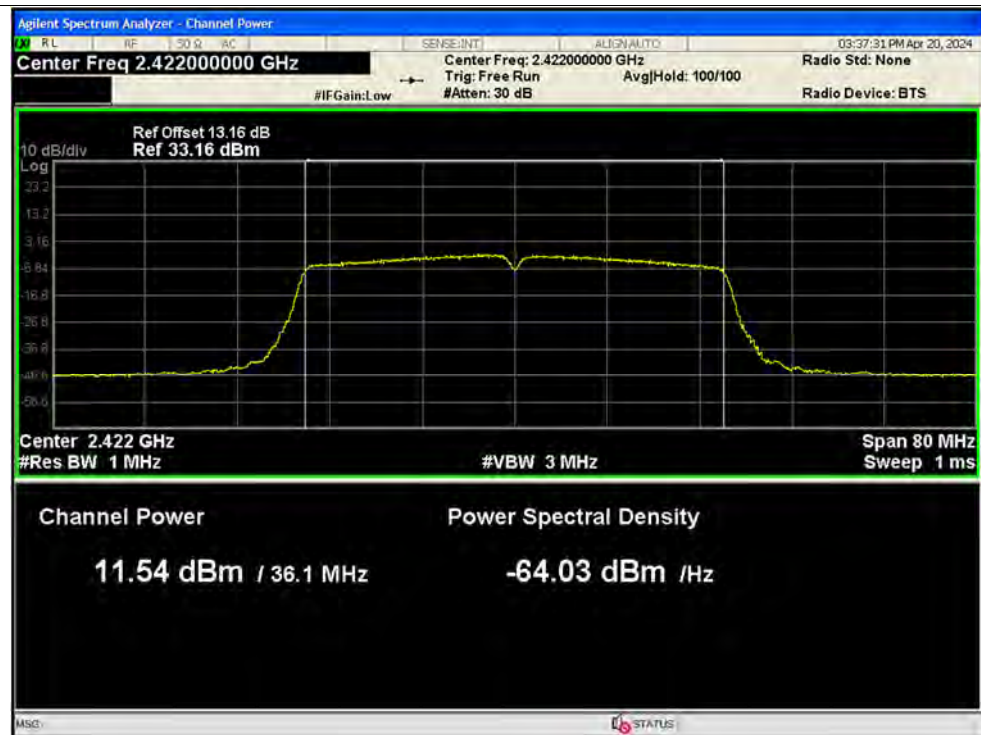
Average Power NVNT n40 2452MHz Ant2 SISO



Average Power NVNT n40 2422MHz Ant1 MIMO

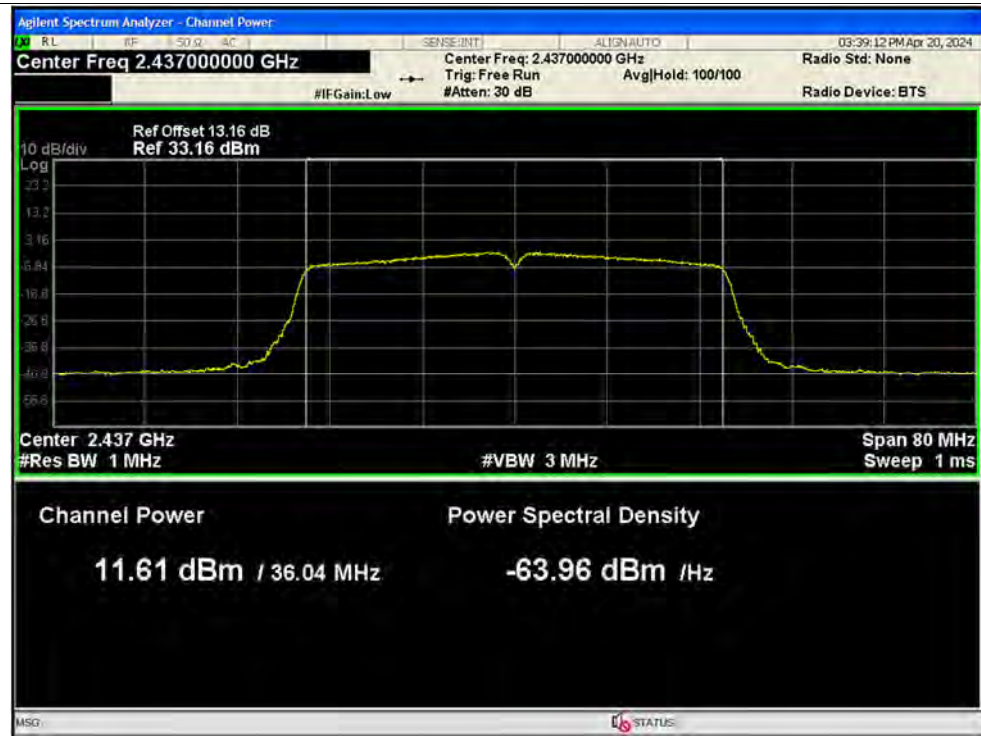


Average Power NVNT n40 2422MHz Ant2 MIMO

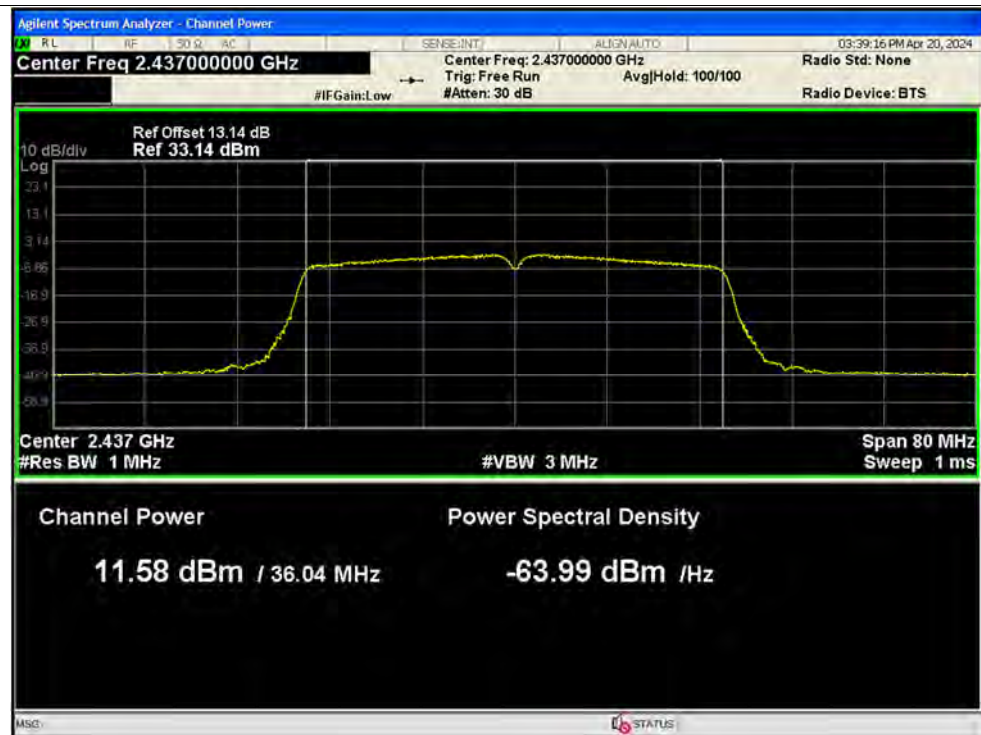




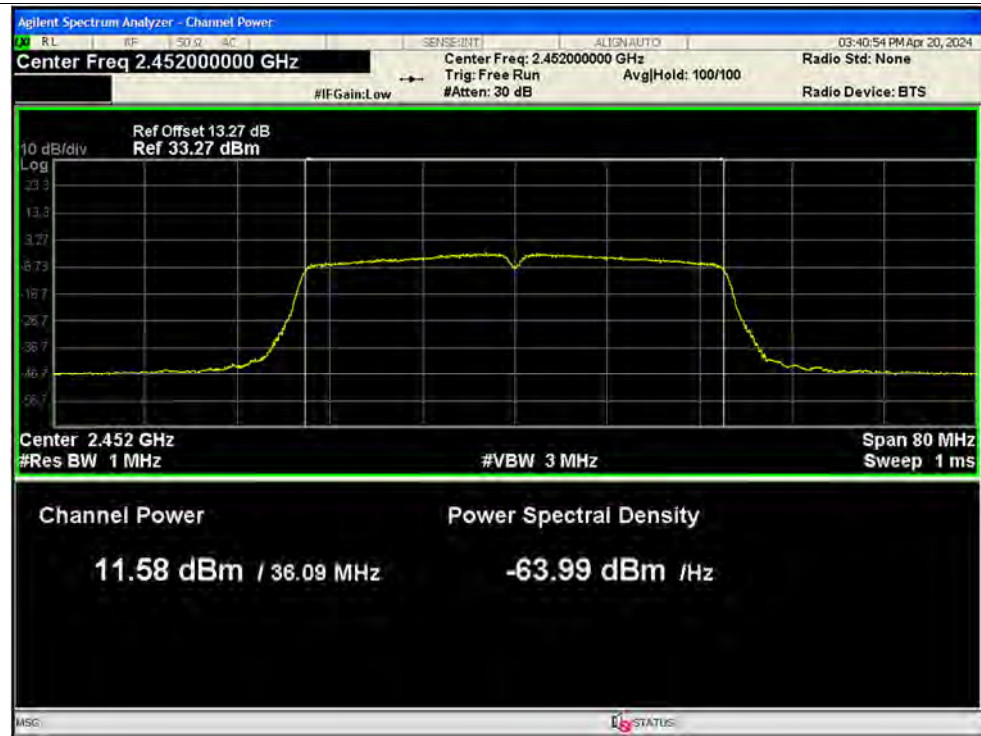
Average Power NVNT n40 2437MHz Ant1 MIMO



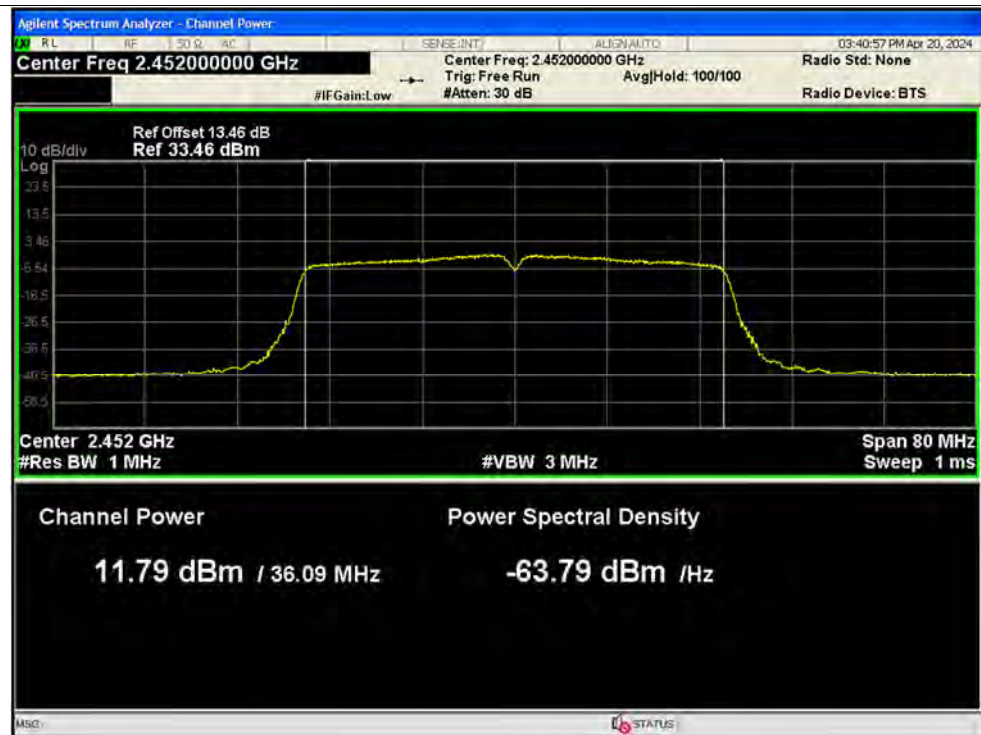
Average Power NVNT n40 2437MHz Ant2 MIMO



Average Power NVNT n40 2452MHz Ant1 MIMO



Average Power NVNT n40 2452MHz Ant2 MIMO

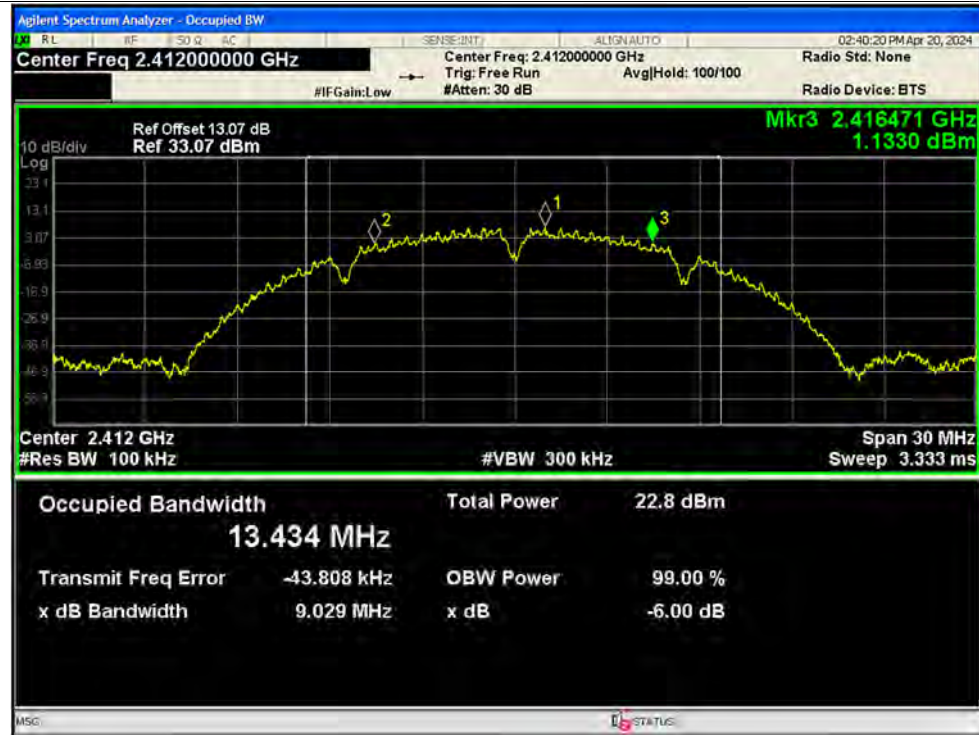


**A.4. 6 dB Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit (MHz)	Verdict
NVNT	b SISO	2412	Ant1	9.029	0.5	Pass
NVNT	b SISO	2437	Ant1	9.062	0.5	Pass
NVNT	b SISO	2462	Ant1	8.545	0.5	Pass
NVNT	b SISO	2412	Ant2	9.062	0.5	Pass
NVNT	b SISO	2437	Ant2	9.041	0.5	Pass
NVNT	b SISO	2462	Ant2	9.018	0.5	Pass
NVNT	g SISO	2412	Ant1	15.284	0.5	Pass
NVNT	g SISO	2437	Ant1	15.12	0.5	Pass
NVNT	g SISO	2462	Ant1	13.834	0.5	Pass
NVNT	g SISO	2412	Ant2	14.406	0.5	Pass
NVNT	g SISO	2437	Ant2	14.417	0.5	Pass
NVNT	g SISO	2462	Ant2	13.837	0.5	Pass
NVNT	n20 SISO	2412	Ant1	15.077	0.5	Pass
NVNT	n20 SISO	2437	Ant1	13.16	0.5	Pass
NVNT	n20 MIMO	2462	Ant1	15.131	0.5	Pass
NVNT	n20 MIMO	2412	Ant2	15.068	0.5	Pass
NVNT	n20 SISO	2437	Ant2	15.085	0.5	Pass
NVNT	n20 SISO	2462	Ant2	15.056	0.5	Pass
NVNT	n20 MIMO	2412	Ant1	14.925	0.5	Pass
NVNT	n20 MIMO	2412	Ant2	16.309	0.5	Pass
NVNT	n20 SISO	2437	Ant1	15.029	0.5	Pass
NVNT	n20 SISO	2437	Ant2	16.529	0.5	Pass
NVNT	n20 MIMO	2462	Ant1	12.911	0.5	Pass
NVNT	n20 MIMO	2462	Ant2	15.061	0.5	Pass
NVNT	n40 SISO	2422	Ant1	35.1	0.5	Pass
NVNT	n40 SISO	2437	Ant1	35.086	0.5	Pass
NVNT	n40 MIMO	2452	Ant1	35.091	0.5	Pass
NVNT	n40 MIMO	2422	Ant2	35.119	0.5	Pass
NVNT	n40 SISO	2437	Ant2	33.812	0.5	Pass
NVNT	n40 SISO	2452	Ant2	35.095	0.5	Pass
NVNT	n40 MIMO	2422	Ant1	35.095	0.5	Pass
NVNT	n40 MIMO	2422	Ant2	33.825	0.5	Pass
NVNT	n40 SISO	2437	Ant1	33.821	0.5	Pass
NVNT	n40 SISO	2437	Ant2	33.772	0.5	Pass
NVNT	n40 MIMO	2452	Ant1	35.09	0.5	Pass
NVNT	n40 MIMO	2452	Ant2	35.098	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1 SISO



-6dB Bandwidth NVNT b 2437MHz Ant1 SISO



-6dB Bandwidth NVNT b 2462MHz Ant1 SISO



-6dB Bandwidth NVNT b 2412MHz Ant2 SISO



-6dB Bandwidth NVNT b 2437MHz Ant2 SISO



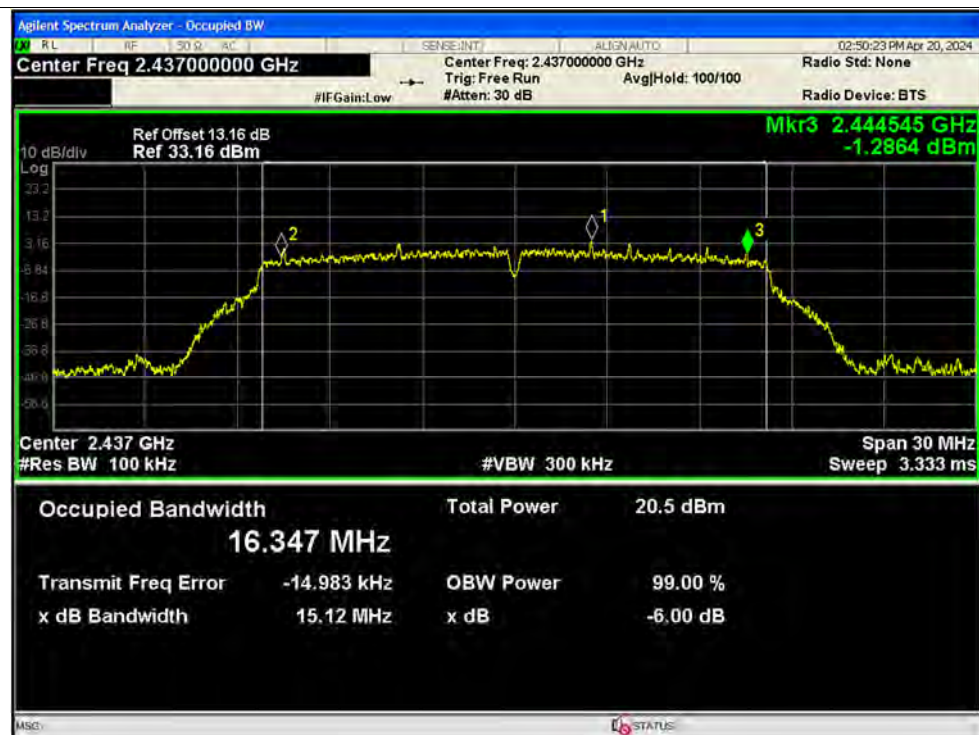
-6dB Bandwidth NVNT b 2462MHz Ant2 SISO



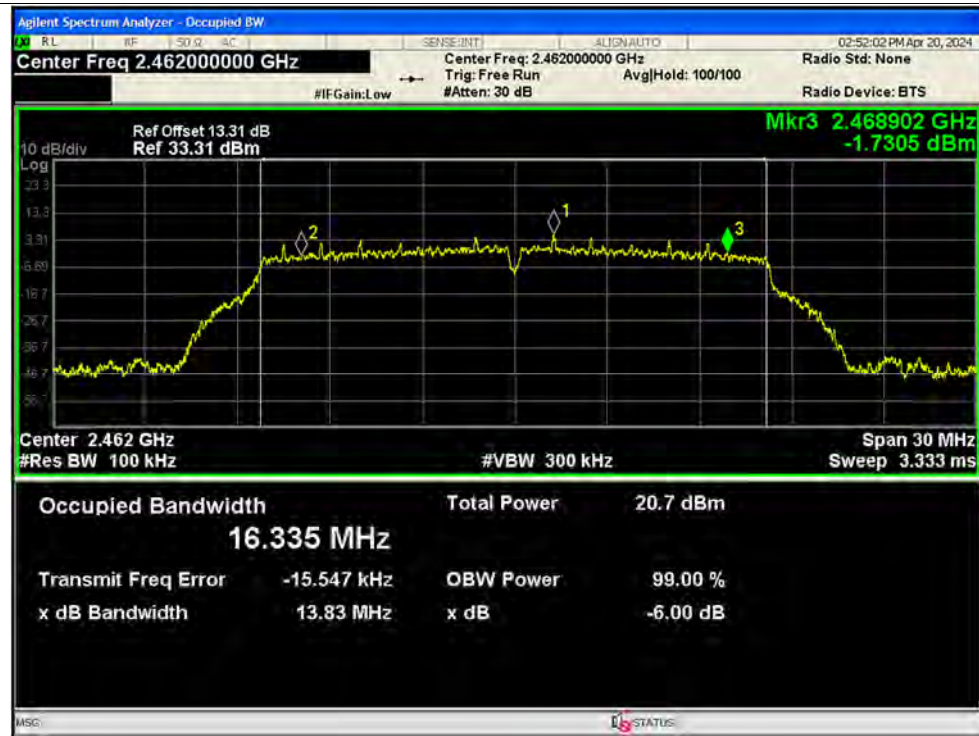
-6dB Bandwidth NVNT g 2412MHz Ant1 SISO



-6dB Bandwidth NVNT g 2437MHz Ant1 SISO



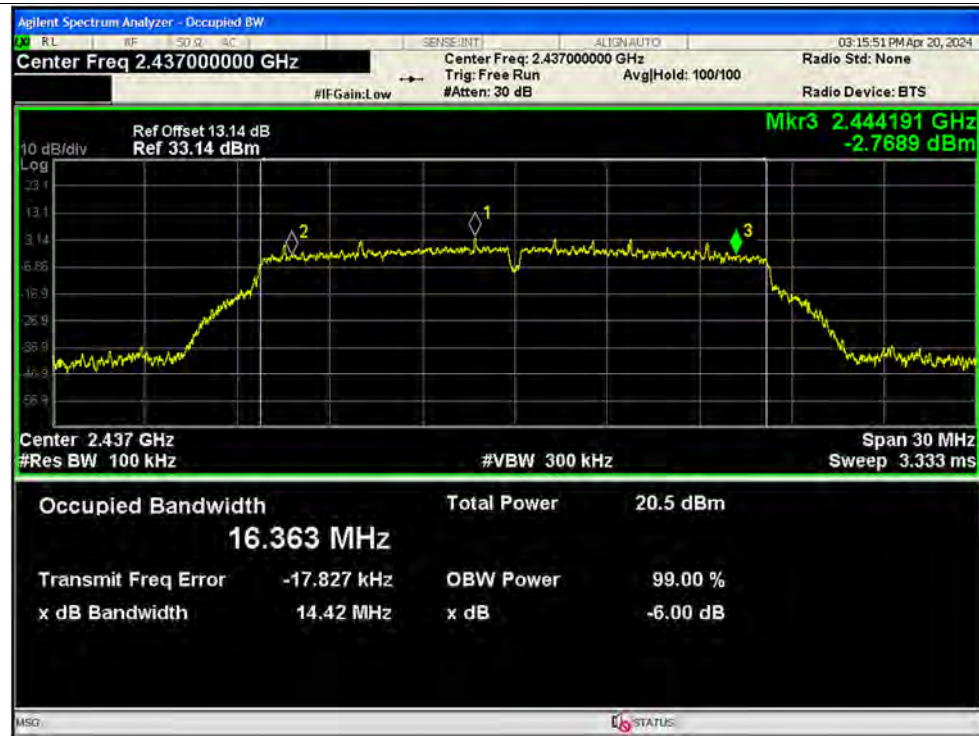
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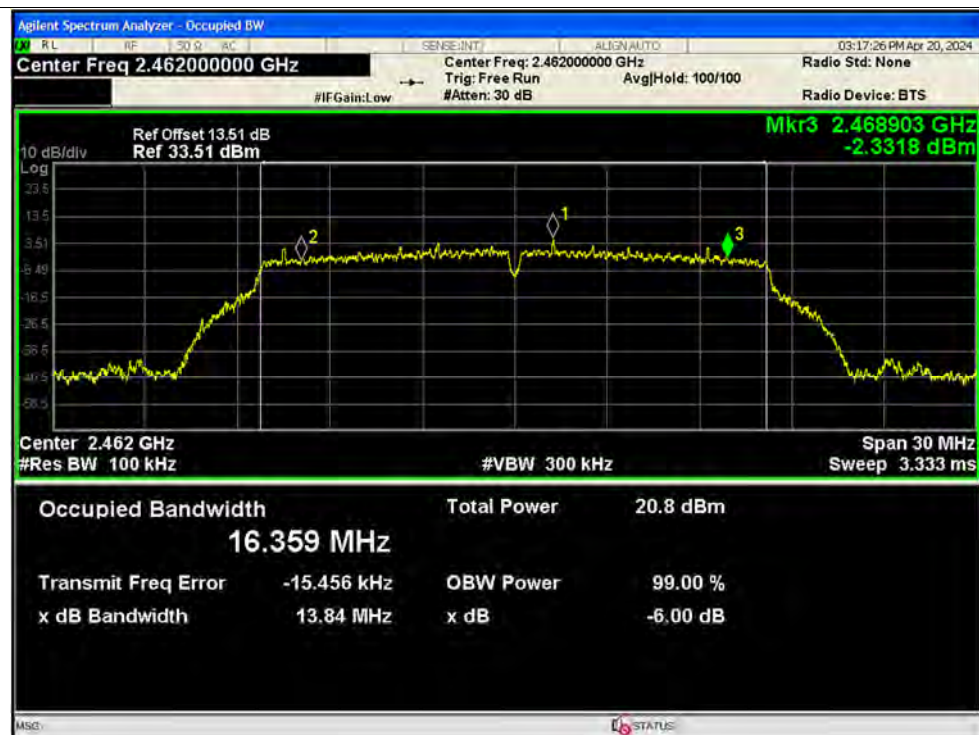
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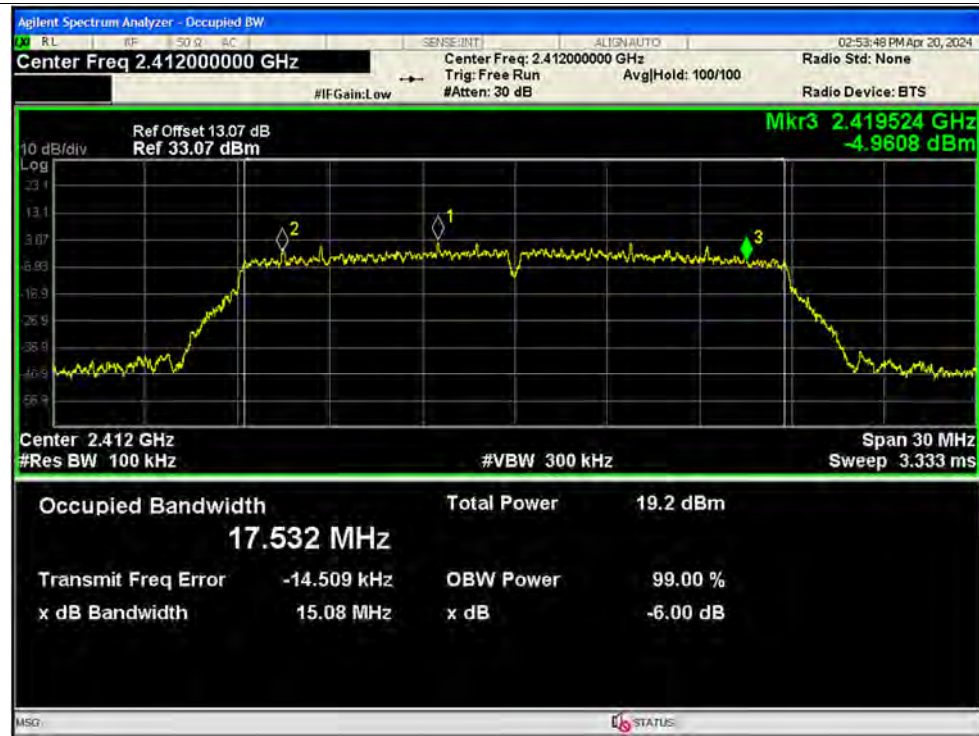
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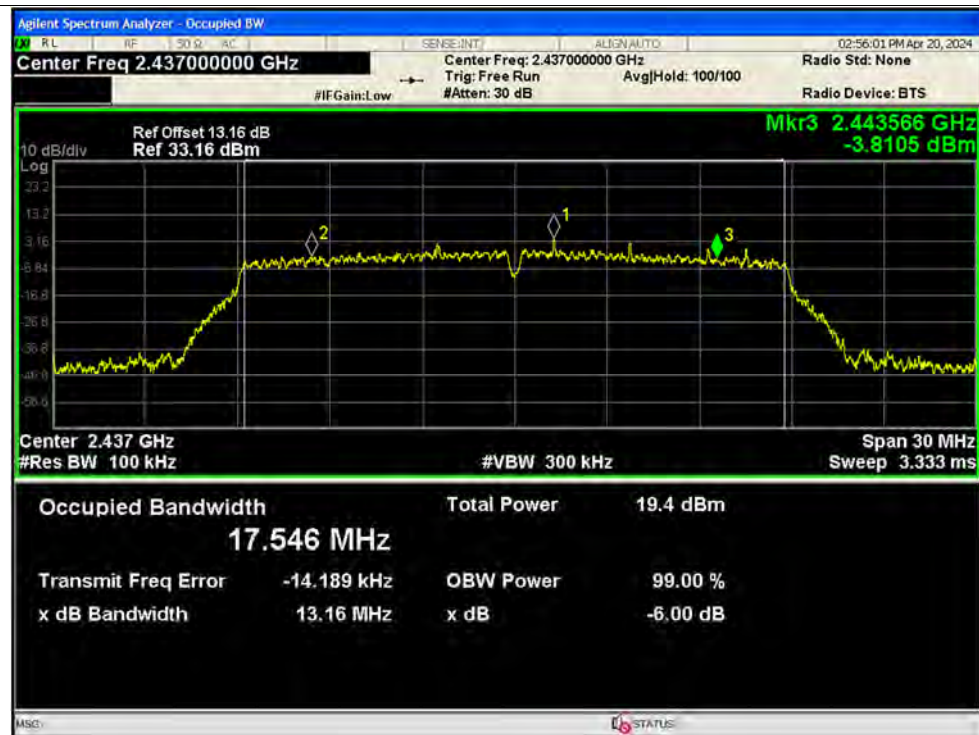
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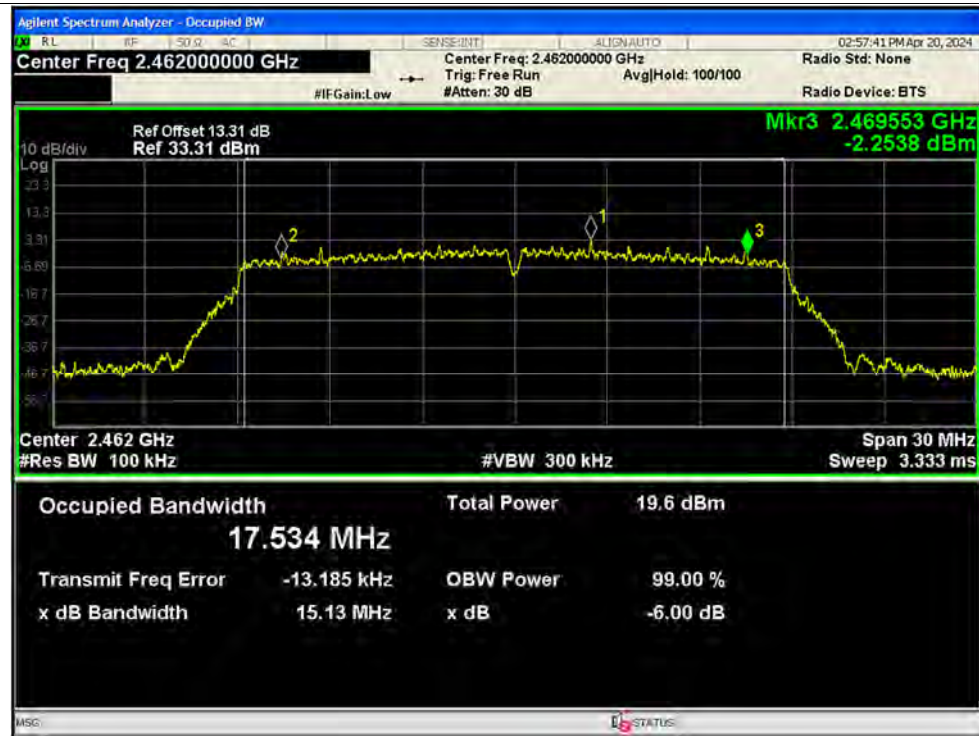
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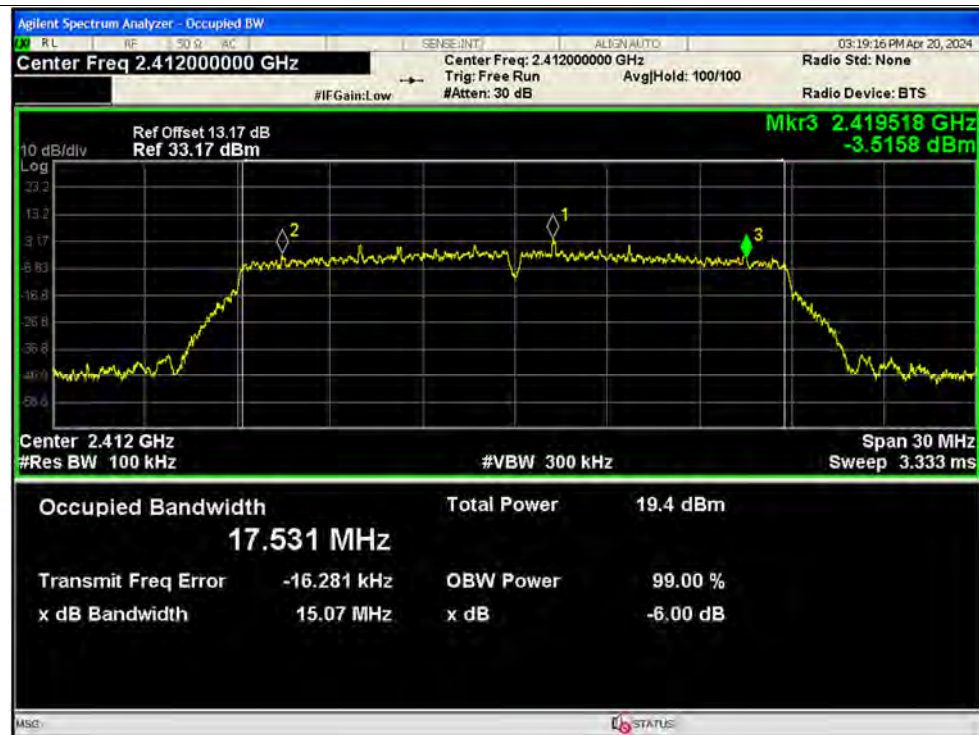
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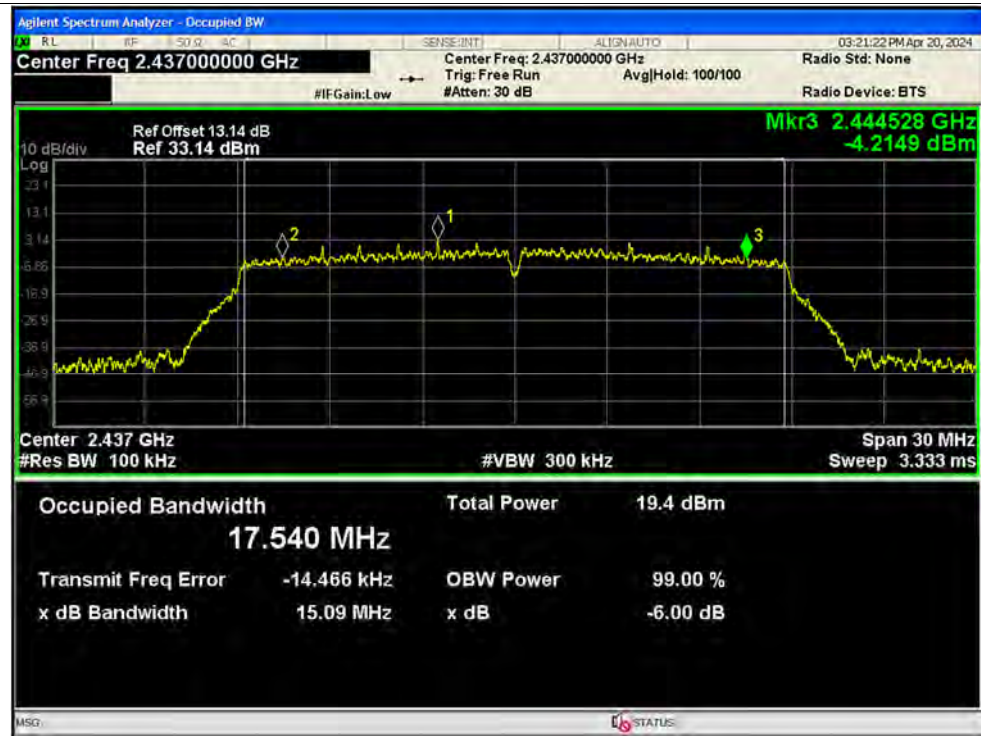
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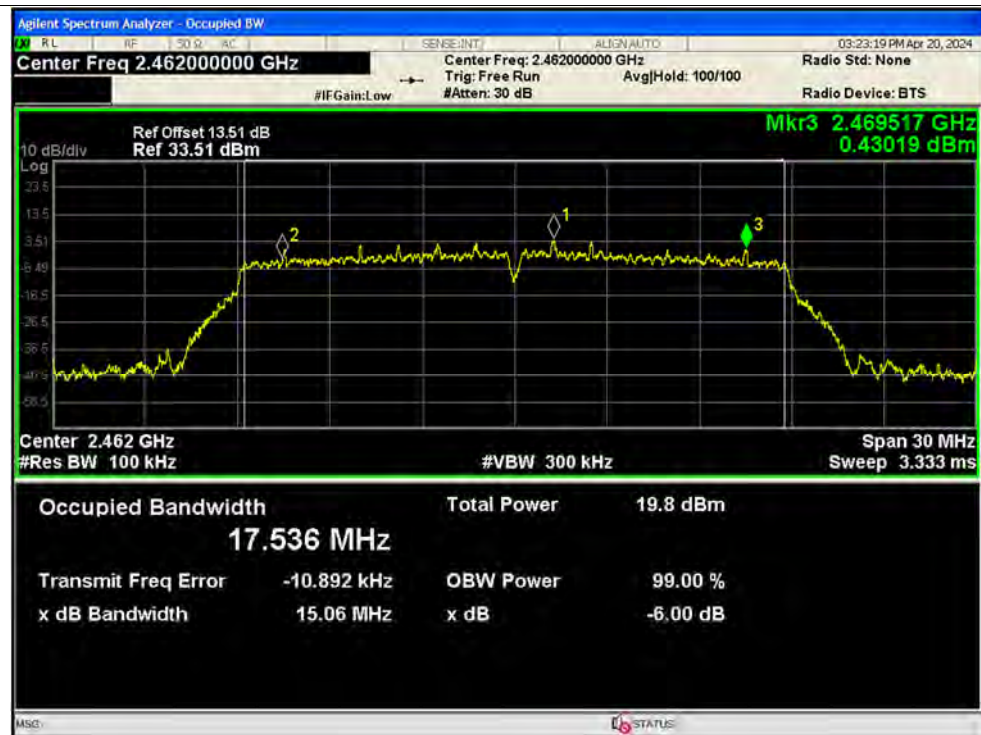
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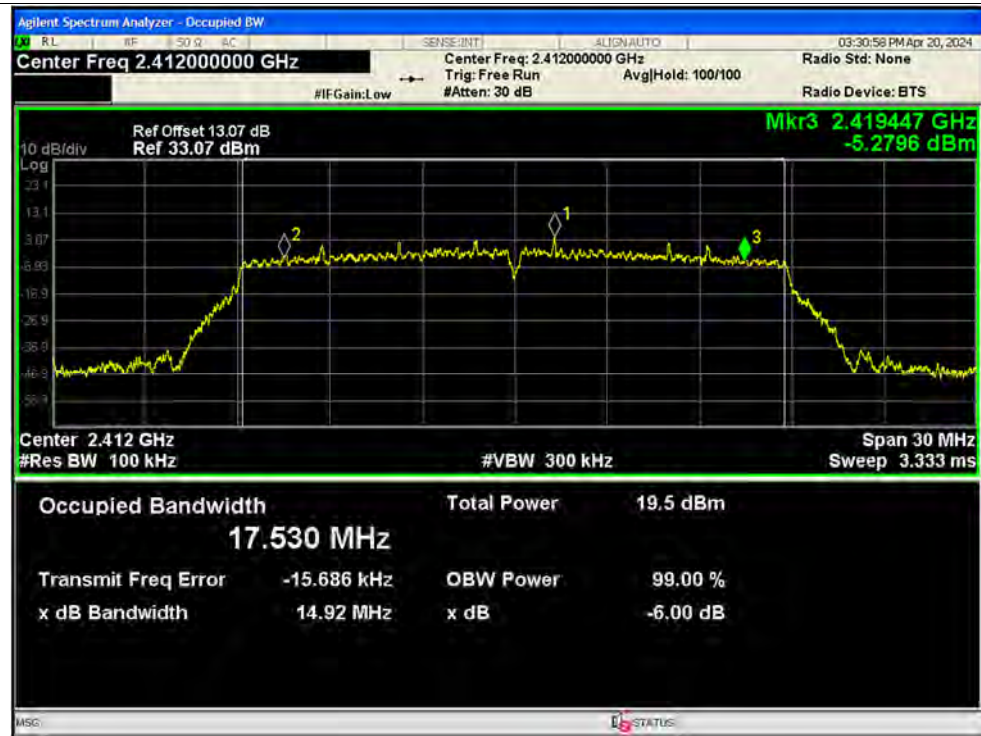
-6dB Bandwidth NVNT n20 2437MHz Ant2 SISO



-6dB Bandwidth NVNT n20 2462MHz Ant2 SISO



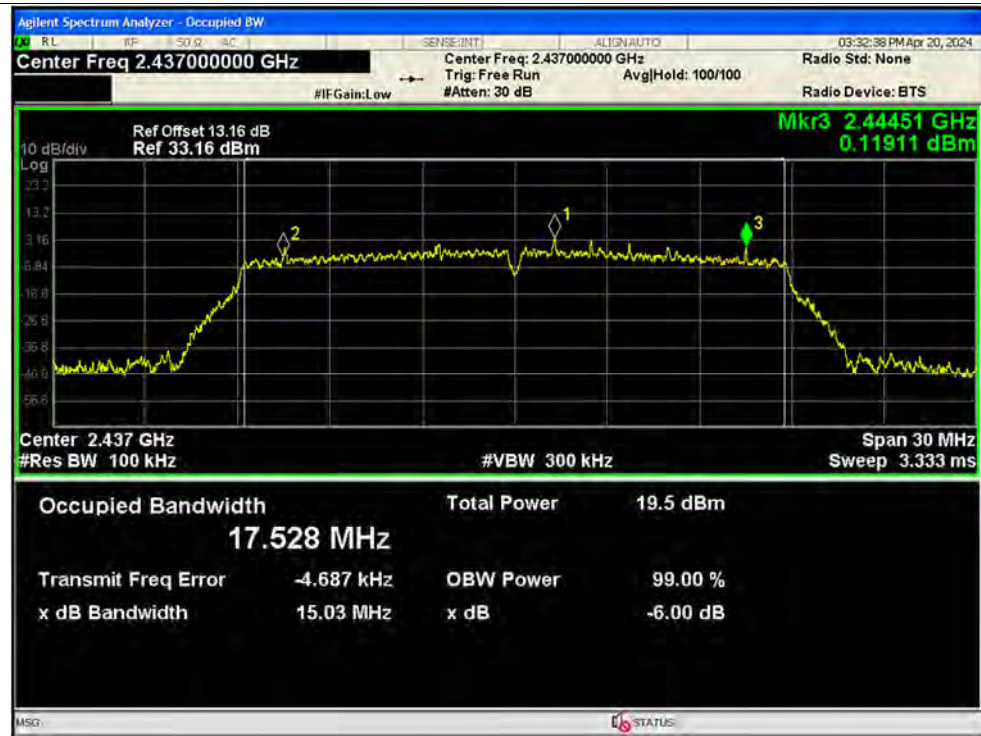
-6dB Bandwidth NVNT n20 2412MHz Ant1 MIMO



-6dB Bandwidth NVNT n20 2412MHz Ant2 MIMO



-6dB Bandwidth NVNT n20 2437MHz Ant1 MIMO



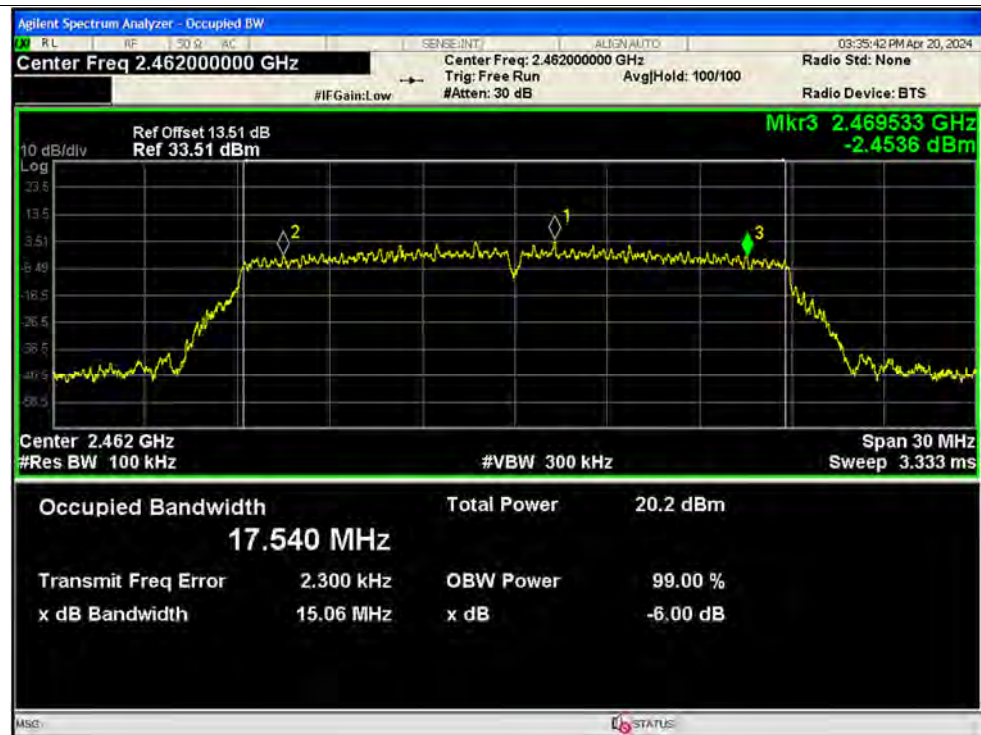
-6dB Bandwidth NVNT n20 2437MHz Ant2 MIMO



-6dB Bandwidth NVNT n20 2462MHz Ant1 MIMO

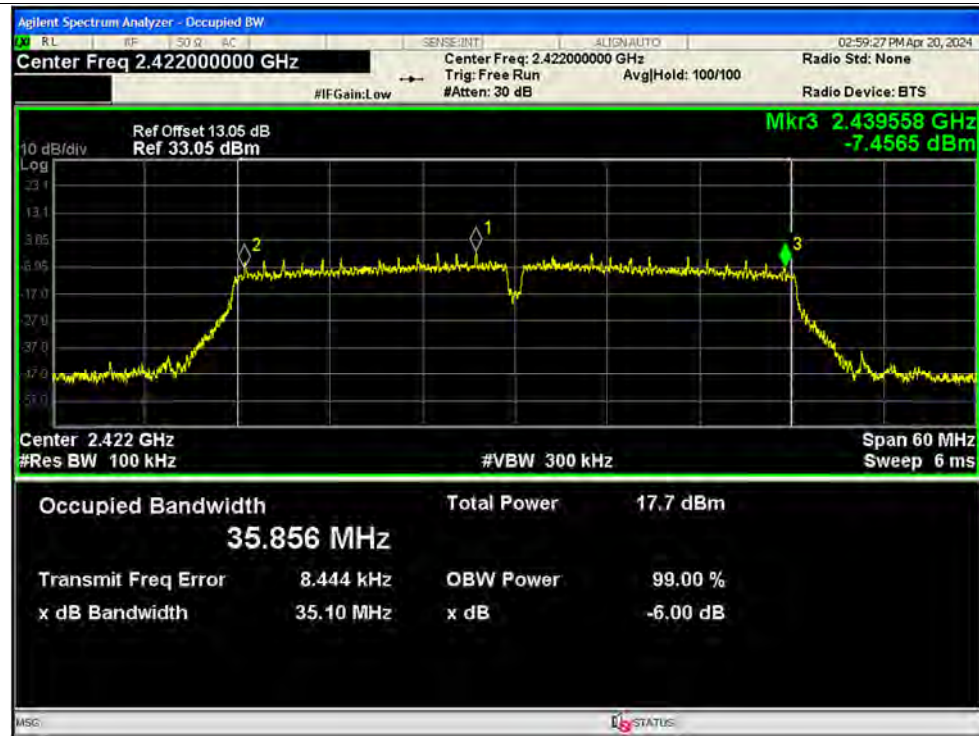


-6dB Bandwidth NVNT n20 2462MHz Ant2 MIMO

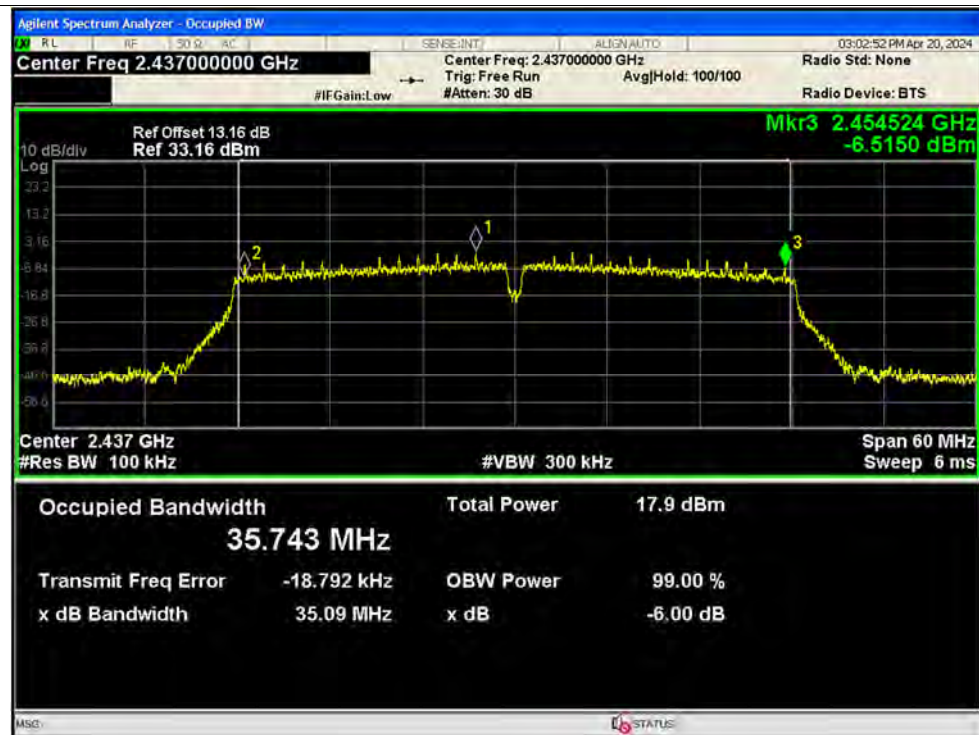




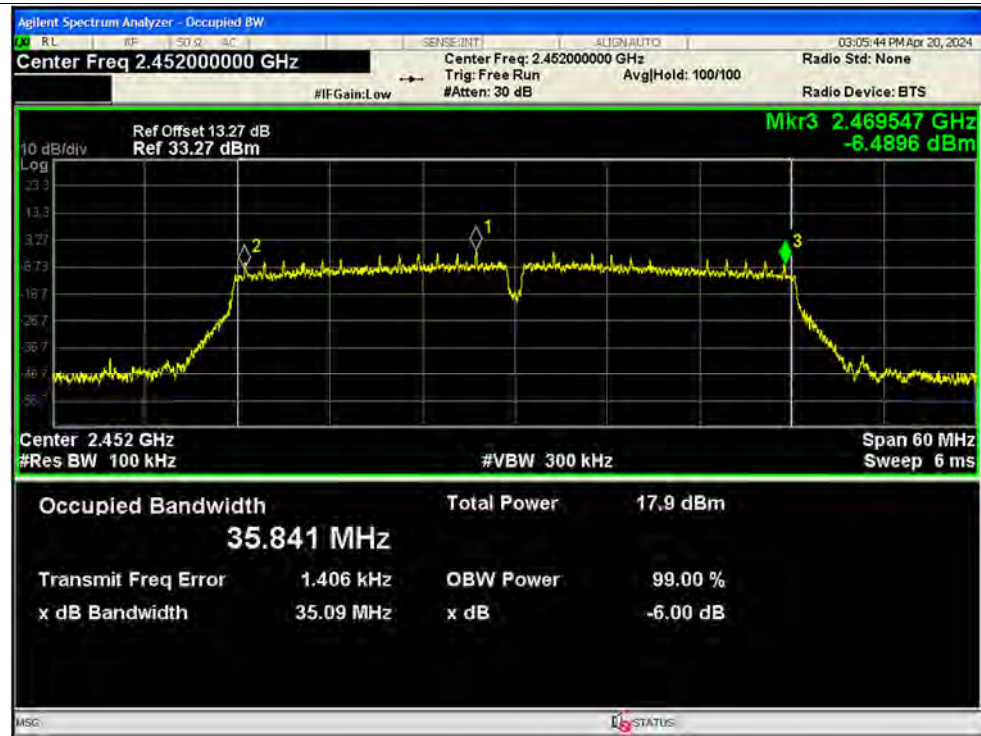
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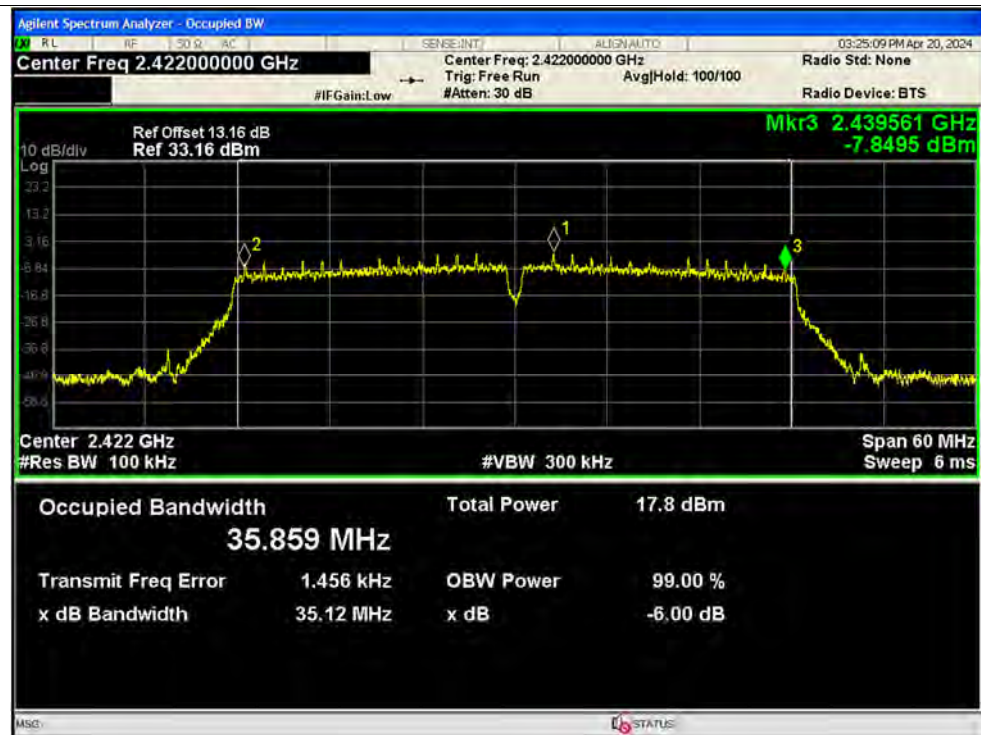
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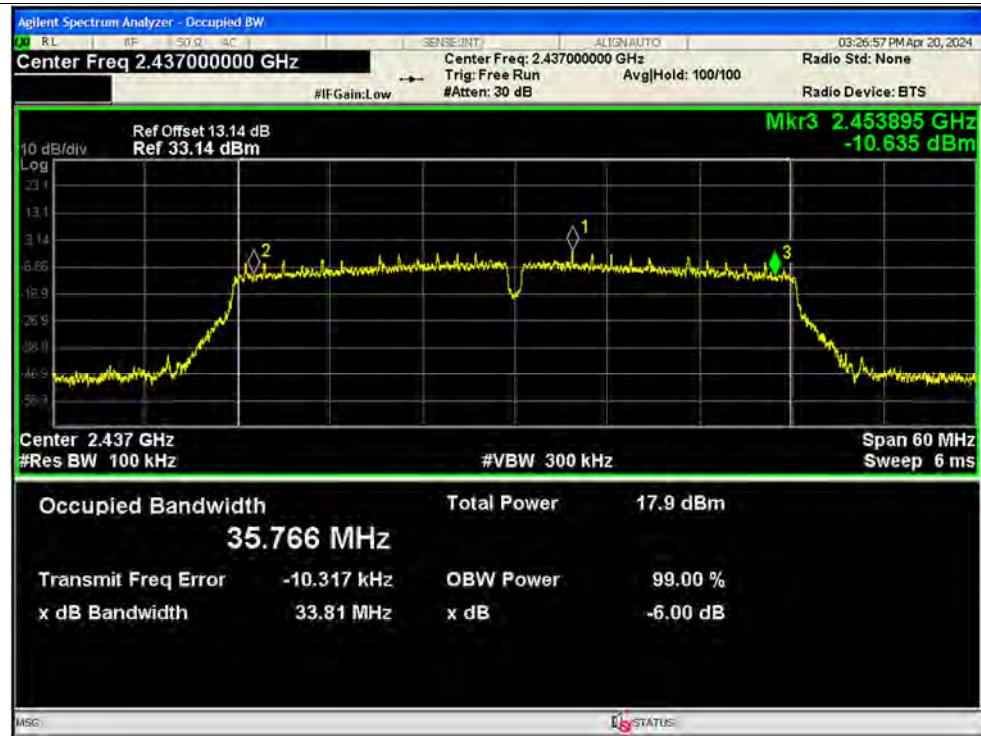
-6dB Bandwidth NVNT n40 2452MHz Ant1 SISO



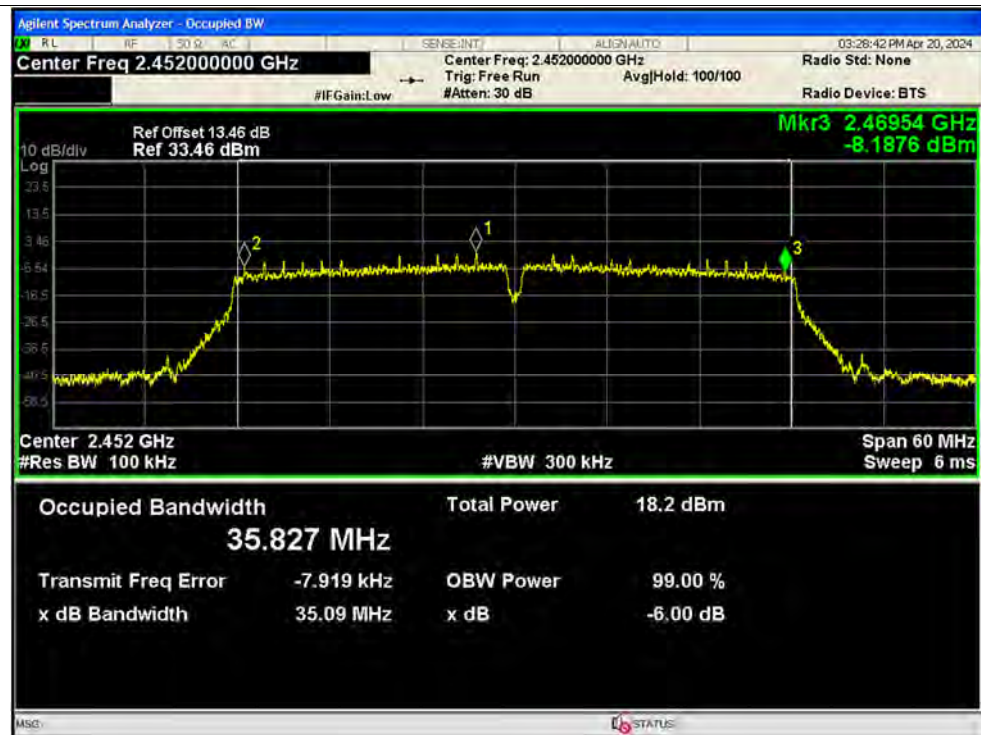
-6dB Bandwidth NVNT n40 2422MHz Ant2 SISO



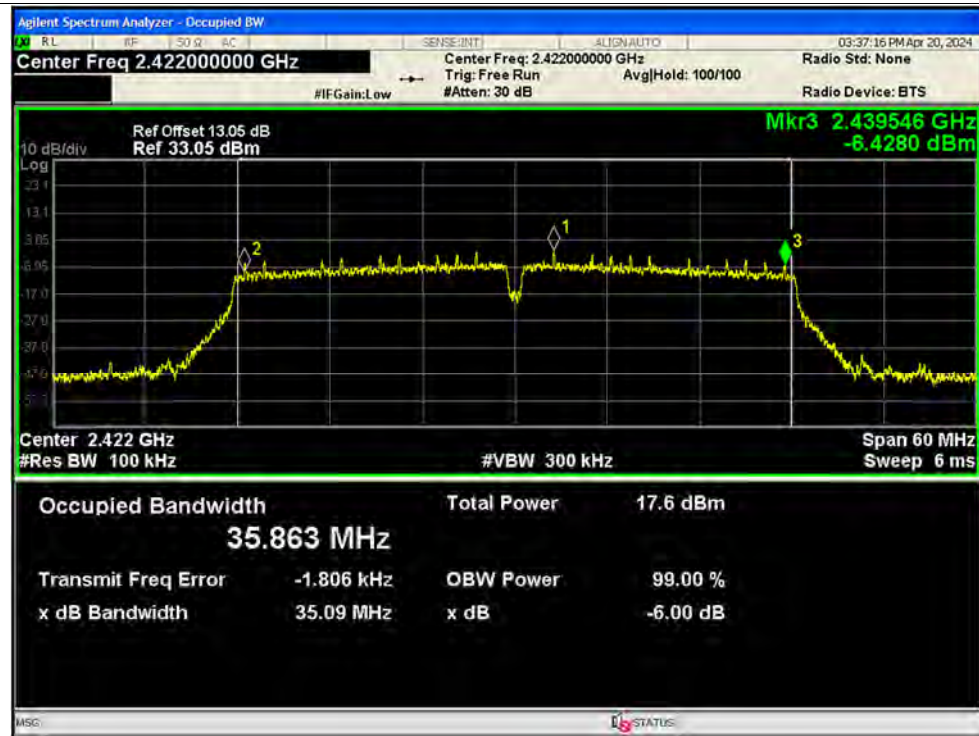
-6dB Bandwidth NVNT n40 2437MHz Ant2 SISO



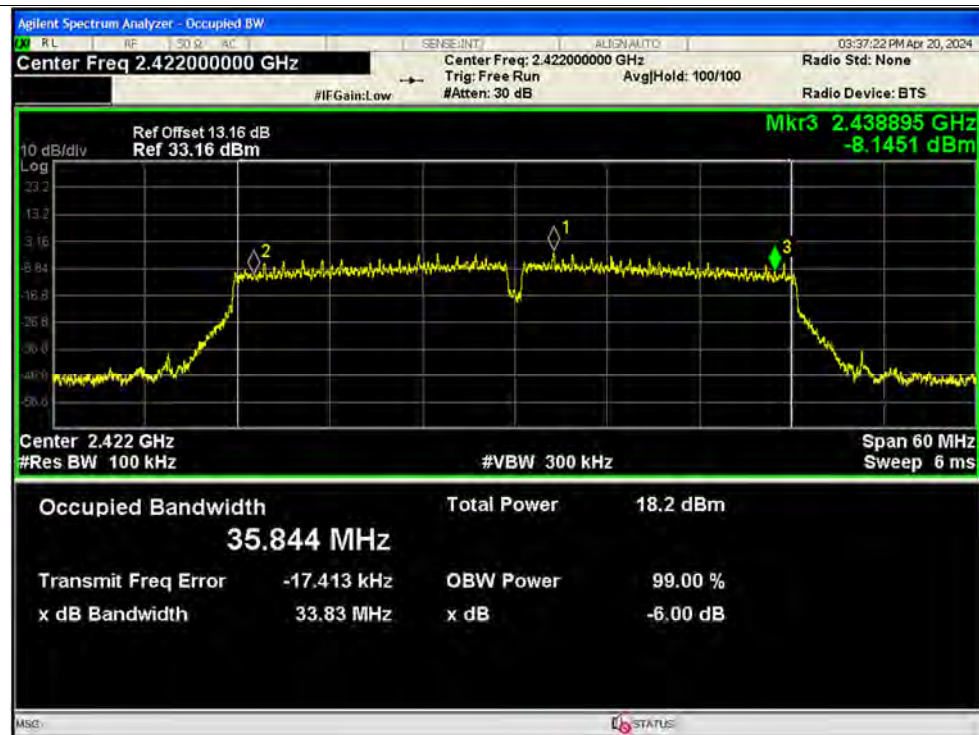
-6dB Bandwidth NVNT n40 2452MHz Ant2 SISO



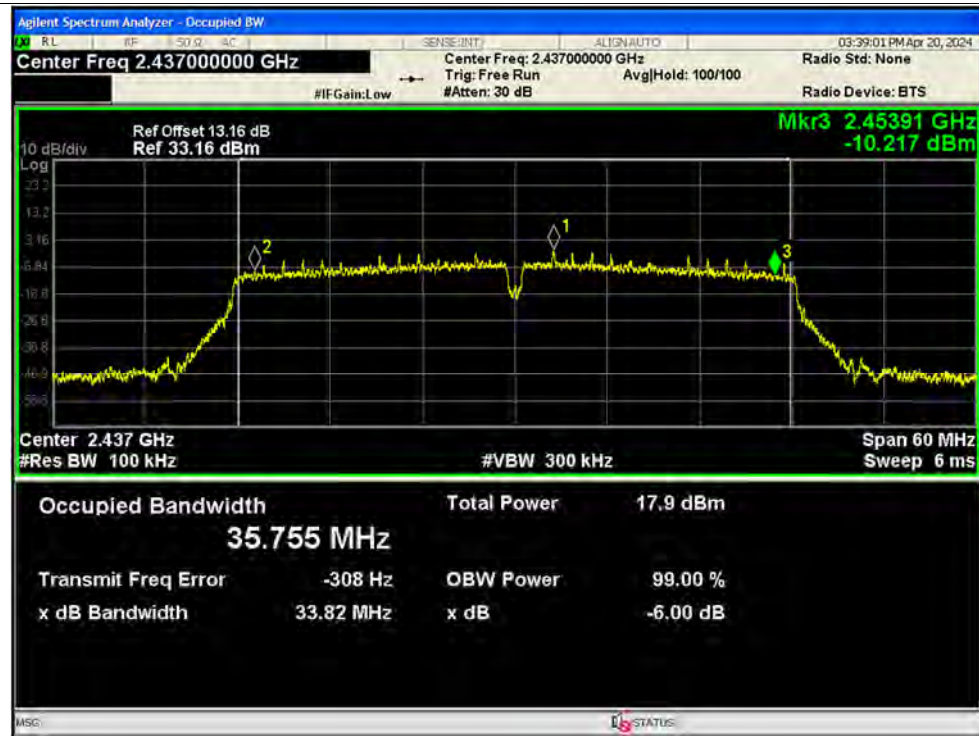
-6dB Bandwidth NVNT n40 2422MHz Ant1 MIMO



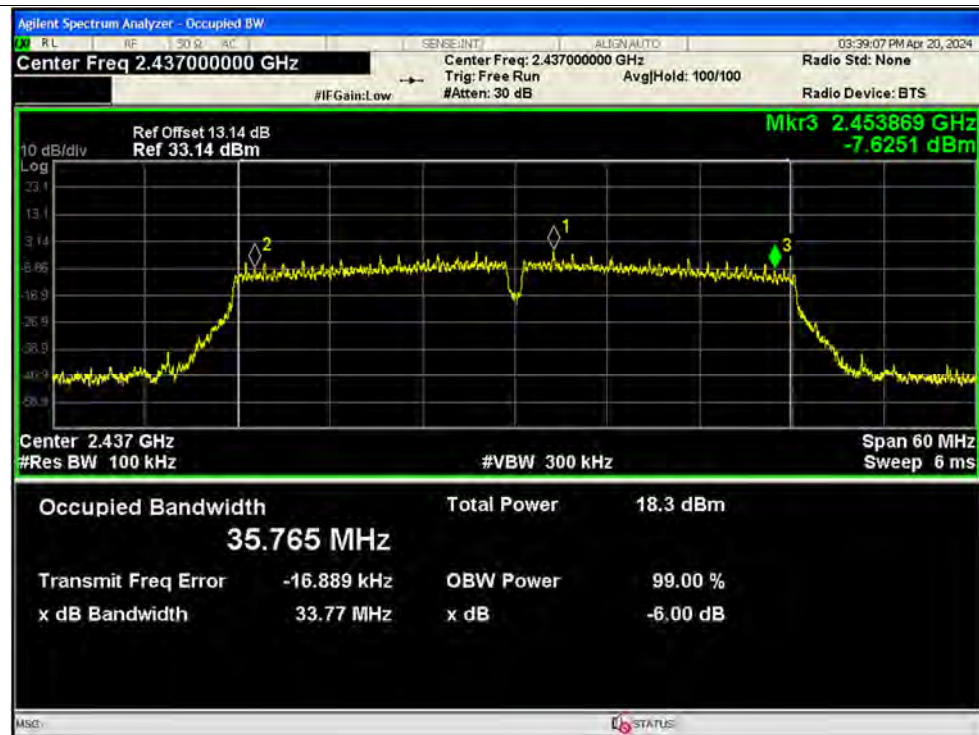
-6dB Bandwidth NVNT n40 2422MHz Ant2 MIMO



-6dB Bandwidth NVNT n40 2437MHz Ant1 MIMO



-6dB Bandwidth NVNT n40 2437MHz Ant2 MIMO



-6dB Bandwidth NVNT n40 2452MHz Ant1 MIMO



-6dB Bandwidth NVNT n40 2452MHz Ant2 MIMO



**A.5. Conducted Spurious Emissions**

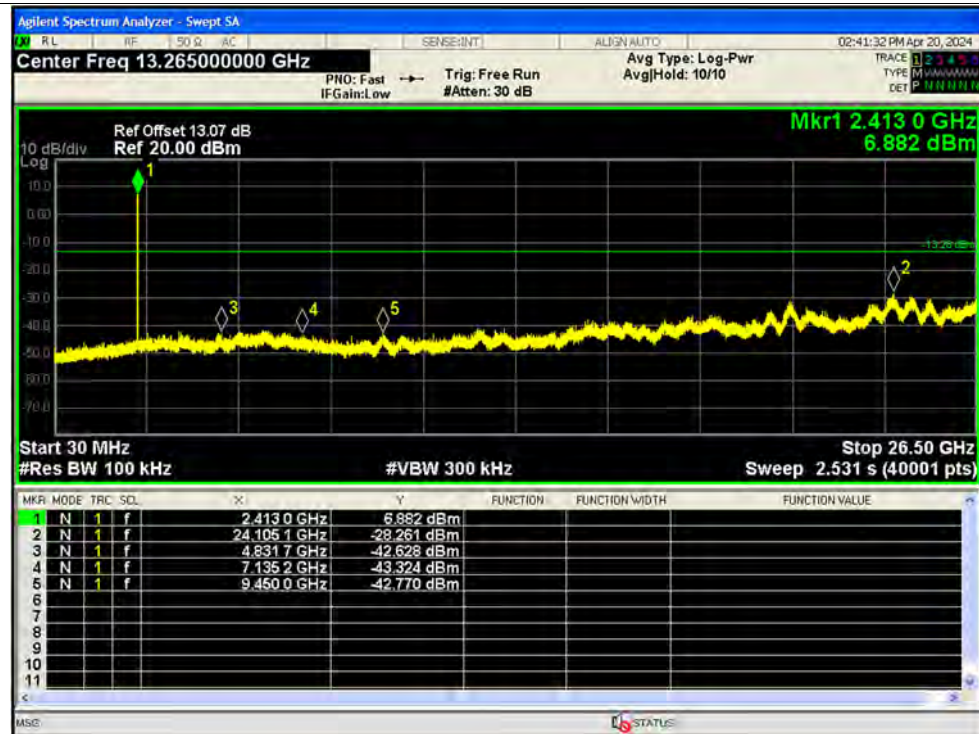
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b SISO	2412	Ant1	-34.98	-20	Pass
NVNT	b SISO	2437	Ant1	-35.9	-20	Pass
NVNT	b SISO	2462	Ant1	-35.38	-20	Pass
NVNT	b SISO	2412	Ant2	-34.93	-20	Pass
NVNT	b SISO	2437	Ant2	-35.6	-20	Pass
NVNT	b SISO	2462	Ant2	-35.64	-20	Pass
NVNT	g SISO	2412	Ant1	-32.85	-20	Pass
NVNT	g SISO	2437	Ant1	-33.18	-20	Pass
NVNT	g SISO	2462	Ant1	-33.02	-20	Pass
NVNT	g SISO	2412	Ant2	-32.79	-20	Pass
NVNT	g SISO	2437	Ant2	-33.32	-20	Pass
NVNT	g SISO	2462	Ant2	-32.71	-20	Pass
NVNT	n20 SISO	2412	Ant1	-32.89	-20	Pass
NVNT	n20 SISO	2437	Ant1	-31.81	-20	Pass
NVNT	n20 SISO	2462	Ant1	-32.55	-20	Pass
NVNT	n20 SISO	2412	Ant2	-30.94	-20	Pass
NVNT	n20 SISO	2437	Ant2	-32.17	-20	Pass
NVNT	n20 SISO	2462	Ant2	-32.18	-20	Pass
NVNT	n40 SISO	2422	Ant1	-27.74	-20	Pass
NVNT	n40 SISO	2437	Ant1	-27.41	-20	Pass
NVNT	n40 SISO	2452	Ant1	-27.39	-20	Pass
NVNT	n40 SISO	2422	Ant2	-27.1	-20	Pass
NVNT	n40 SISO	2437	Ant2	-28.46	-20	Pass
NVNT	n40 SISO	2452	Ant2	-27.45	-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref SISO



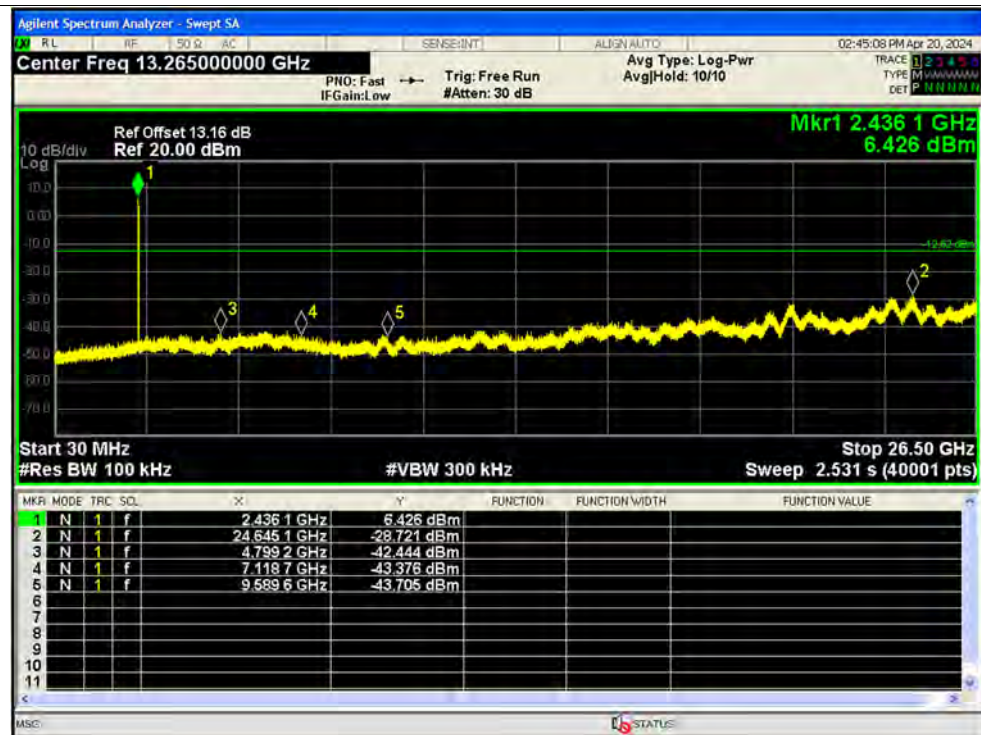
Tx. Spurious NVNT b 2412MHz Ant1 Emission SISO



Tx. Spurious NVNT b 2437MHz Ant1 Ref SISO



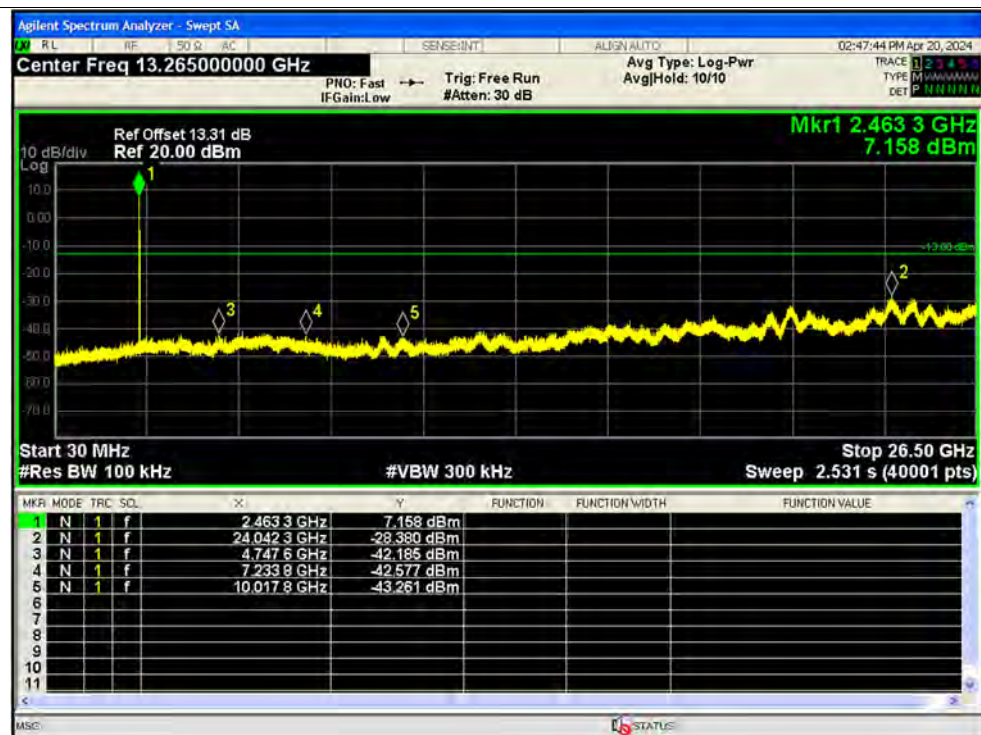
Tx. Spurious NVNT b 2437MHz Ant1 Emission SISO



Tx. Spurious NVNT b 2462MHz Ant1 Ref SISO



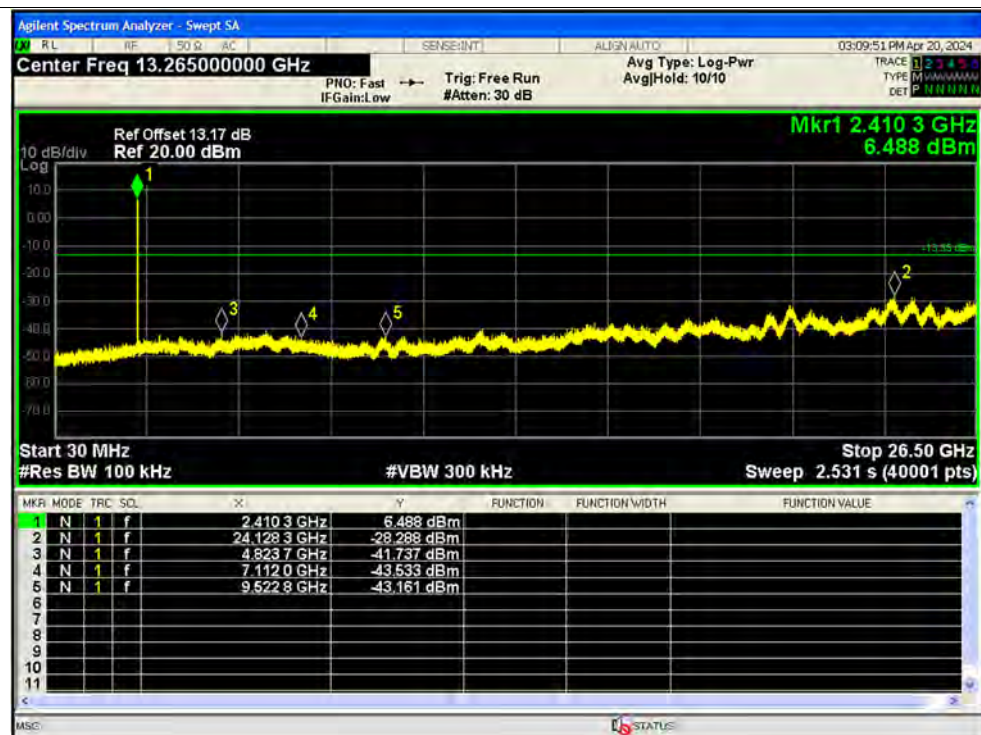
Tx. Spurious NVNT b 2462MHz Ant1 Emission SISO



Tx. Spurious NVNT b 2412MHz Ant2 Ref SISO



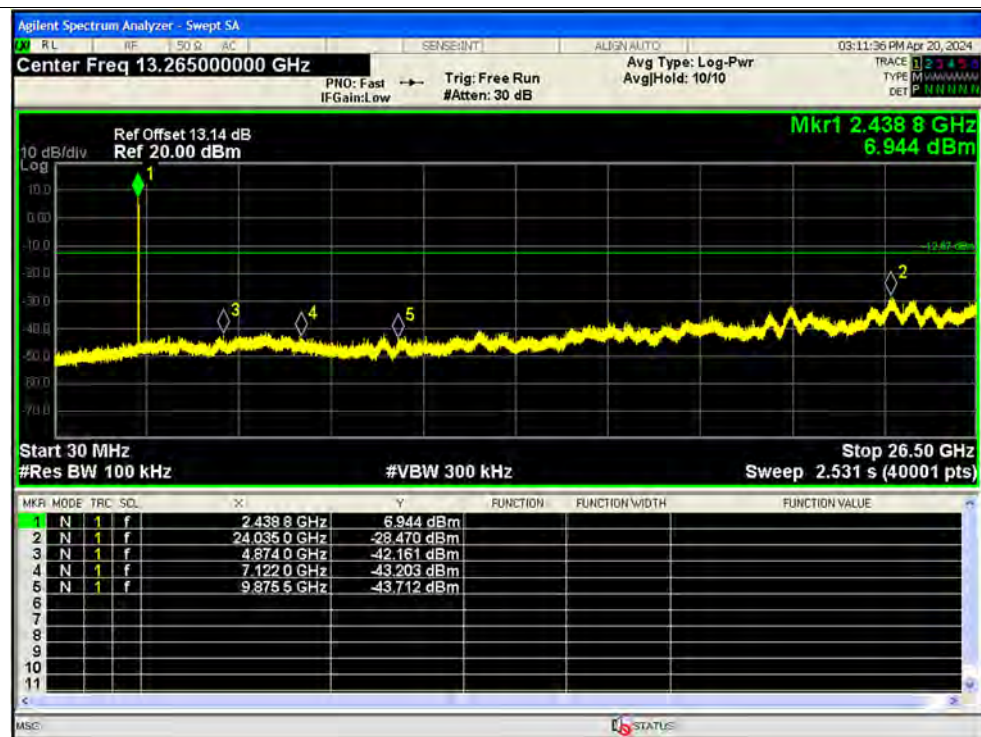
Tx. Spurious NVNT b 2412MHz Ant2 Emission SISO



Tx. Spurious NVNT b 2437MHz Ant2 Ref SISO



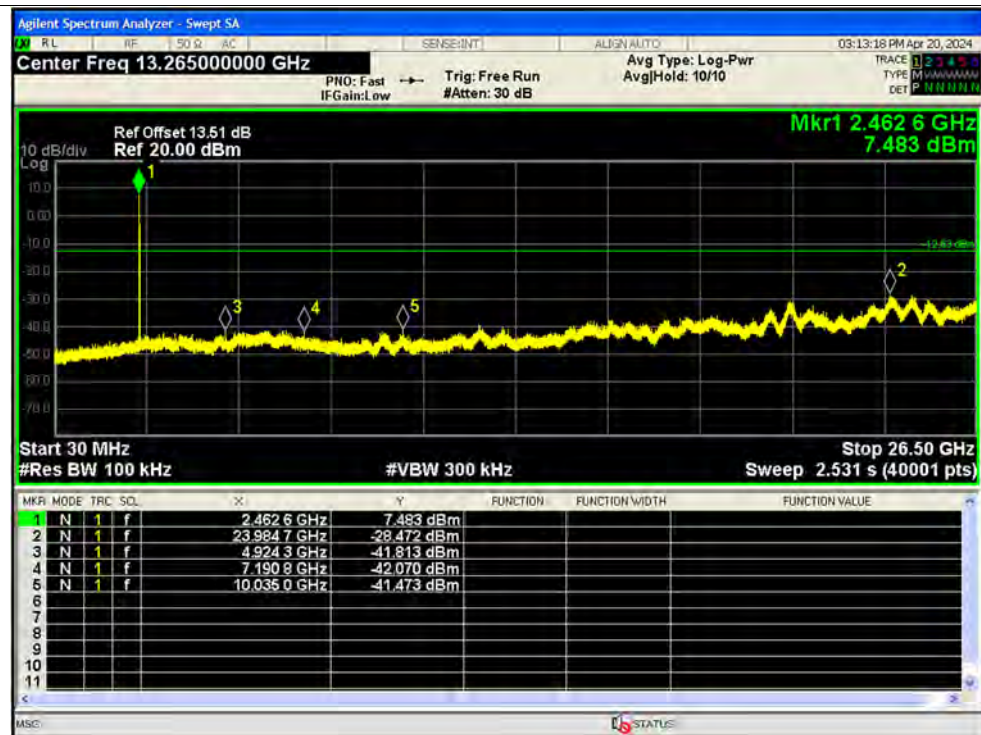
Tx. Spurious NVNT b 2437MHz Ant2 Emission SISO



Tx. Spurious NVNT b 2462MHz Ant2 Ref SISO



Tx. Spurious NVNT b 2462MHz Ant2 Emission SISO



Tx. Spurious NVNT g 2412MHz Ant1 Ref SISO



Tx. Spurious NVNT g 2412MHz Ant1 Emission SISO

