TEST REPORT

APPLICANT	:	OnePlus Technology (Shenzhen) Co., Ltd.
PRODUCT NAME	:	OnePlus Pad
MODEL NAME	:	OPD2203
BRAND NAME	:	ONEPLUS
FCC ID	:	2ABZ2-OPD2203
STANDARD(S)	:	47 CFR Part 15 Subpart C
RECEIPT DATE	:	2023-02-23
TEST DATE	:	2023-03-02 to 2023-03-23
ISSUE DATE	:	2023-04-19

Edited by: Peng Mi (Rapporteur)

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DIRECTORY

Change History		
Version	**Date**	**Reason for change**
1.0	2023-04-19	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	Mar. 03, 2023	Su Xiaoxian	PASS	No deviation
3	15.247(b)	Maximum Peak Conducted Output Power	Mar. 03, 2023	Su Xiaoxian	PASS	No deviation
4	15.247(b)	Maximum Average Conducted Output Power	Mar. 03, 2023	Su Xiaoxian	PASS	No deviation
5	15.247(a)	Bandwidth	Mar. 03, 2023	Su Xiaoxian	PASS	No deviation
6	15.247(d)	Conducted Spurious Emission and Band Edge	Mar. 10, 2023	Su Xiaoxian	PASS	No deviation
7	15.247(e)	Power Spectral Density	Mar. 10, 2023	Su Xiaoxian	PASS	No deviation
8	15.207	Conducted Emission	Mar. 01, 2023	Wu Zhaoling	PASS	No deviation
9	15.247(d)	Restricted Frequency Bands	Mar. 23, 2023	Gao Jianrou	PASS	No deviation
10	15.209, 15.247(d)	Radiated Emission	Mar. 23, 2023	Gao Jianrou	PASS	No deviation

Note 1: All test items are tested and evaluated in the worse mode with reference to output power results.

Note 2: The tests were performed according to the method of measurements prescribed in ANSIC63.10-2013 and KDB558074 D01 v05r02.

Note 3: 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 4: 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 Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analzyer	MY53470836	N9010A	Agilent	2023.02.27	2024.02.26
Power Sensor	MY54180008	U2021XA	Agilent	2022.10.11	2023.10.10
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 Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2023.02.09	2024.02.08
LISN	8127449	NSLK 8127	Schwarzbeck	2023.02.21	2024.02.20
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2022.07.06	2023.07.05
RF Coaxial Cable (DC-100MHz)	BNC	MRE04	Qualwave	2022.07.08	2023.07.07

1.2.3 List of Software Used

Description	Manufacturer	Software Version
Test System	MaiWei	2.0.0.0
Morlab EMCR V1.2	Morlab	V1.0
TS+ -[JS32-CE]	Tonscend	V2.5.0.0

1.2.4 Radiated Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY54130016	N9038A	Agilent	2022.07.06	2023.07.05
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2022.05.25	2025.05.24
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2022.02.11	2025.02.10
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2022.07.13	2025.07.12
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2022.07.14	2025.07.13
Preamplifier (10MHz-6GHz)	46732	S10M100L3802	LUCIX CORP.	2022.07.08	2023.07.07
Preamplifier (2GHz-18GHz)	61171/61172	S020180L3203	LUCIX CORP.	2022.07.08	2023.07.07
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2022.07.23	2023.07.22
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2022.07.08	2023.07.07
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2022.07.08	2023.07.07
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2022.07.08	2023.07.07
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2022.07.08	2023.07.07
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2022.07.08	2023.07.07
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2022.07.08	2023.07.07
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	2022.07.08	2023.07.07
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	±2.22dB	Confidence levels of 95%
Power Spectral Density	±2.22dB	Confidence levels of 95%
Bandwidth	±5%	Confidence levels of 95%
Conducted Spurious Emission	±2.77dB	Confidence levels of 95%
Restricted Frequency Bands	±5%	Confidence levels of 95%
Radiated Emission	±2.95dB	Confidence levels of 95%
Conducted Emission	±2.44dB	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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Facsimile	+86 755 36698525
FCC Designation Number	CN1192
FCC Test Firm Registration Number	226174

2. General Description

2.1. Information of Applicant and Manufacturer

Applicant	OnePlus Technology (Shenzhen) Co., Ltd.
Applicant Address	18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China
Manufacturer	OnePlus Technology (Shenzhen) Co., Ltd.
Manufacturer Address	18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China

2.2. Information of EUT

Product Name:	OnePlus Pad	
Sample No.:	1#	
Hardware Version:	98110_1_11	
Software Version:	OPD2203_13.1	
Modulation Technology:	DSSS, OFDM, OFDMA	
Modulation Type:	Refer to section2.3	
Wireless Technology:	802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40), 802.11ax (HEW20), 802.11ax (HEW40)	
Operating Frequency Range:	2412MHz–2462MHz	
Antenna Type:	Fixed Internal Antenna	
Antenna Gain:	Chain 0: ANT 0: 0.72dBi; ANT 3: -0.64dBi Chain 1: ANT 1: 1.22dBi; ANT 2: 0.82dBi	
Accessory Information:	Battery	
	Brand Name:	SUPERVOOC
	Model No.:	BLT007
	Serial No.:	N/A
	Rated Capacity:	Typical: 9510mAh, Rated: 9230mAh
	Rated Voltage:	3.89V
	Charge Limit:	4.48V
	Manufacturer:	SUNWODA Electronic Co., Ltd.
Accessory Information:	AC Adapter	
	Brand Name:	SUPERVOOC

	Model No.:	VCB8JAUH
	Serial No.:	N/A
	Rated Output:	5V⎓2A or 5V-11V⎓6.1A Max 5V⎓2A or 5V-11V⎓7.3A Max
	Rated Input:	100-130V, 200-240V∼50/60Hz, 2A
	Manufacturer:	Huizhou Golden Lake Industrial Co.,Ltd.
	USB Cable	
	Model No.:	DL129
	Manufacturer:	N/A

Note 1: The EUT support multiple transmitter output, the correlation of different outputs is shown in below table:

Chain & Antenna		Correlated	Uncorrelated	Directional Gain(dBi)
Chain 0	ANT 0	☒	☐	3.08 $(10\log[(10^{G0/20}+10^{G3/20})^2/2])$
	ANT 3			
Chain 1	ANT 1	☒	☐	4.03 $(10\log[(10^{G1/20}+10^{G2/20})^2/2])$
	ANT 2			
Chain 0&1	ANT 0	☐	☒	0.58 $(10\log[(10^{G0/10}+10^{G1/10}+10^{G2/10}+10^{G3/10})/4])$
	ANT 1			
	ANT 2			
	ANT 3			

Note 2: The directional gain in this report is calculated according to the formula in KDB 662911 D01.

Note 3: All radiation items were tested under chain0 and chain1 transmit simultaneously in which four antennas transmit simultaneously.

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 (HT20)	OFDM	**BPSK**	**MCS0**~MCS7	N/A
			QPSK		
			16QAM		
			64QAM		
802.11ax	20/40 (HEW20/40)	OFDMA	**BPSK**	**MSC0**~MCS11	26/52/106/ 242
			QPSK		
			16QAM		
			64QAM		
			256QAM		
			1024QAM		

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.

2.4.2.802.11ax RU Allocation

BW (MHz)	RU Size			User	RU Offset
	Full (Tone)	Partial			
		(Tone)	BW (MHz)		
20	242	26	2	9	@0/1/2/3/4/5/6/7/8
		52	4	4	@37/38/39/40
		106	8	2	@53/54
40	484	26	2	18	@0/1/2……15/16/17
		52	4	8	@37/38/39/40/41/42/43/44
		106	8	4	@53/54/55/56
		242	20	2	@61/62

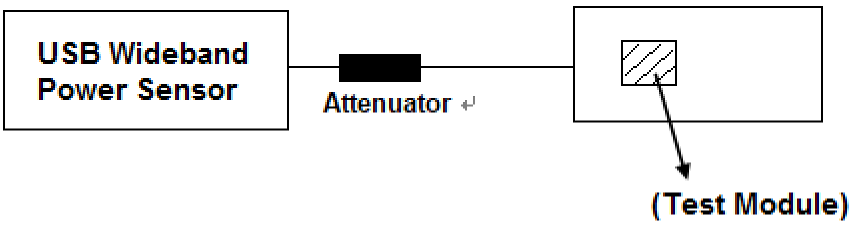
2.5. Test Conditions

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

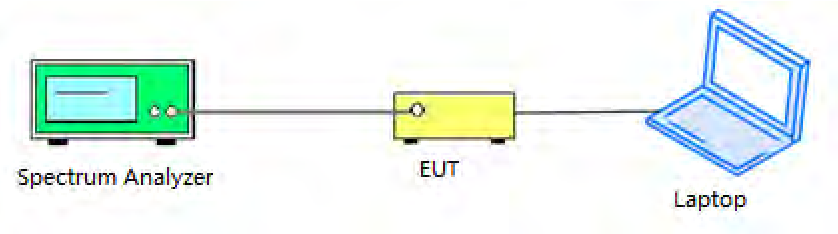
2.6. Test Setup Layout Diagram

2.6.1.Conducted Measurement

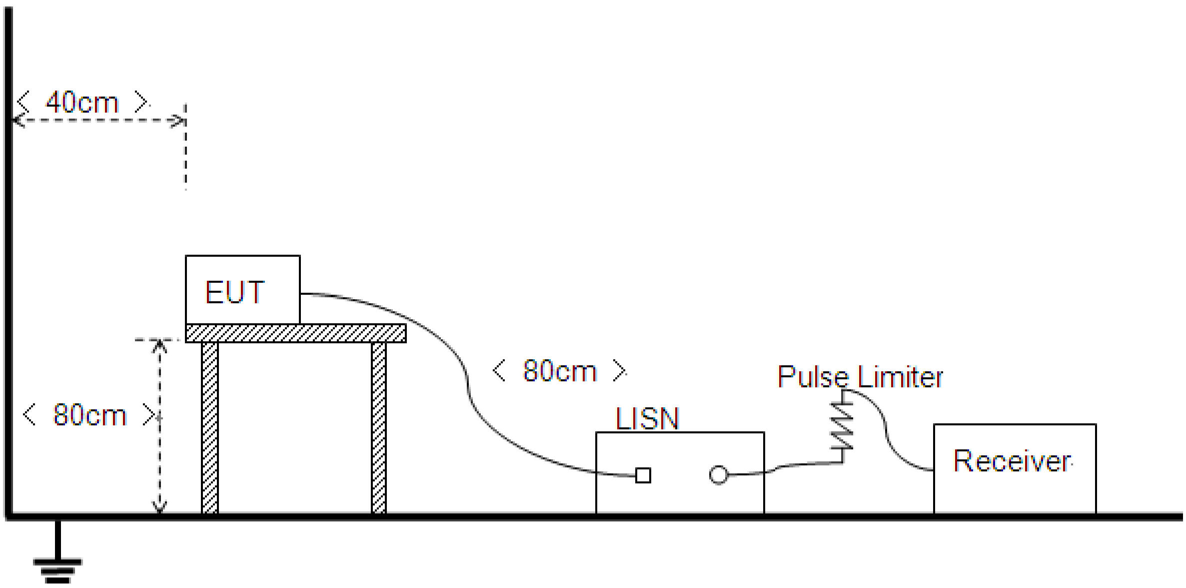
Power item



Other items

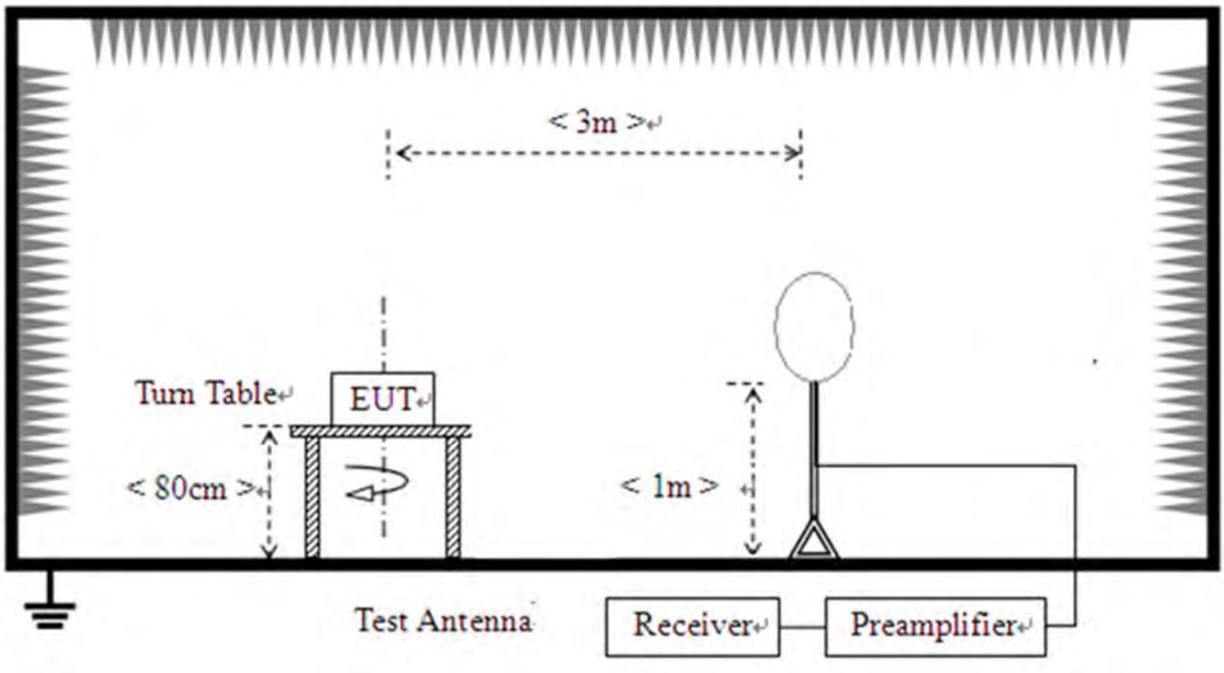


2.6.2.Conducted Emission Measurement

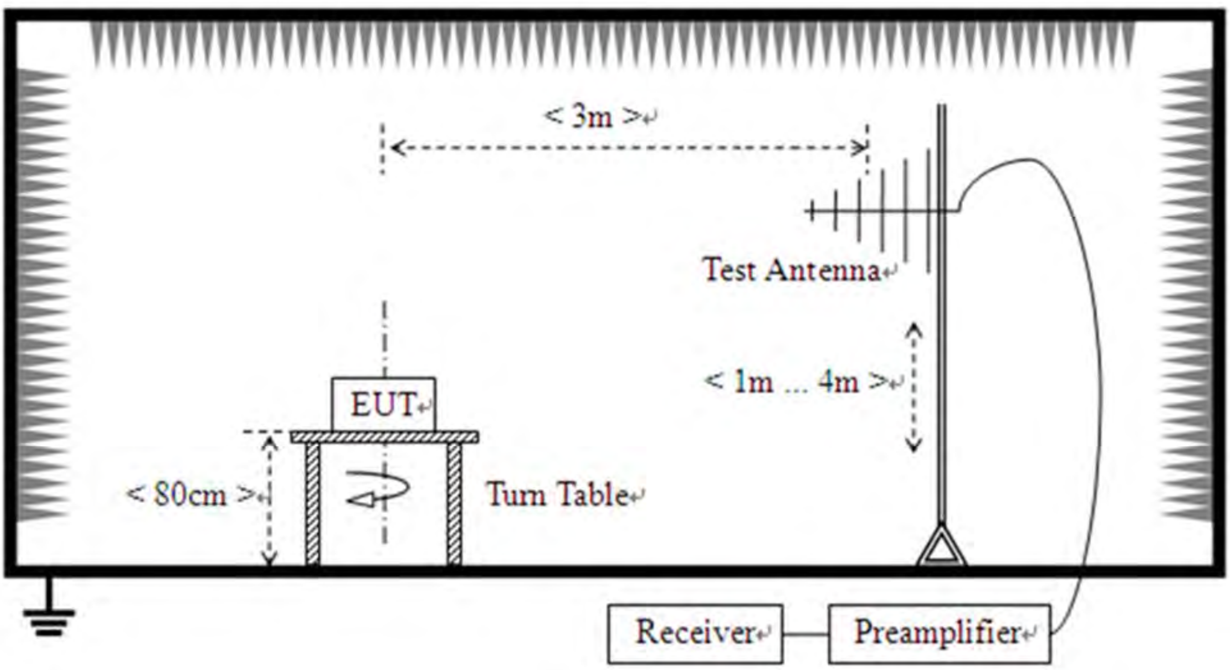


2.6.3.Radiation Measurement

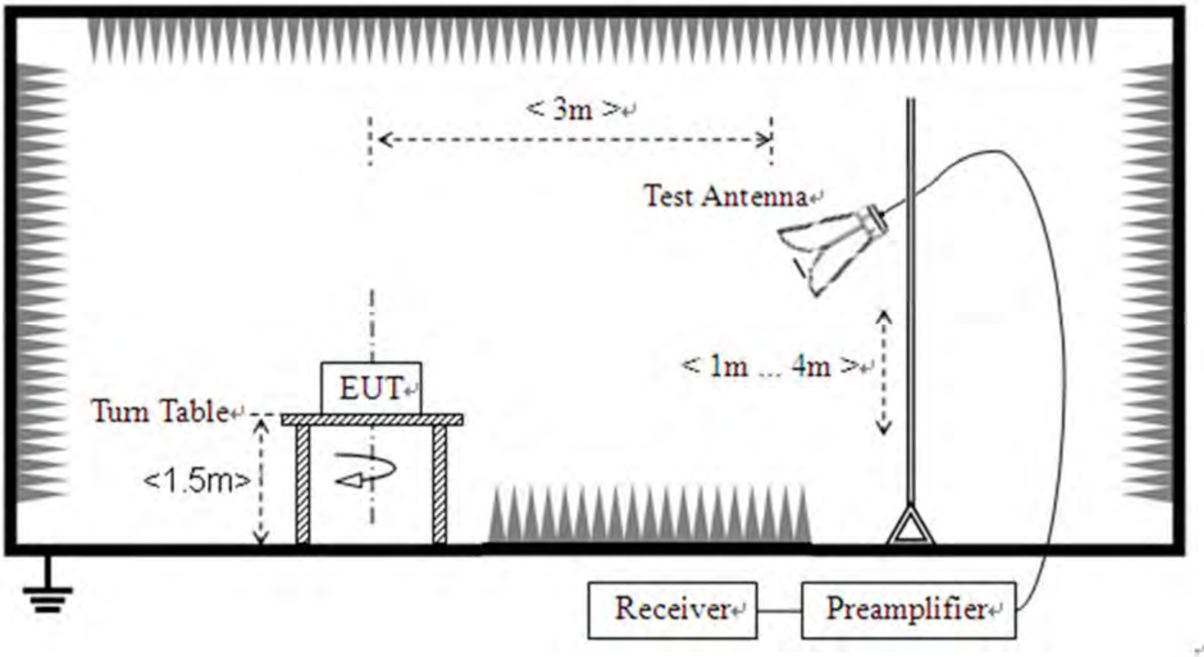
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



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

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal 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 ±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 to1.5 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 50μH/50Ω line impedance stabilization network (LISN).

Frequency Range (MHz)	Conducted Limit (dBμV)	
	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.

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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 ≥ 1GHz, 100 kHz for f < 1GHz
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 (μV/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	2412	Ant0	100	0	0
NVNT	b	2412	Ant3	100	0	0
NVNT	b	2437	Ant0	100	0	0
NVNT	b	2437	Ant3	100	0	0
NVNT	b	2462	Ant0	100	0	0
NVNT	b	2462	Ant3	100	0	0
NVNT	g	2412	Ant0	100	0	0
NVNT	g	2412	Ant3	100	0	0
NVNT	g	2437	Ant0	100	0	0
NVNT	g	2437	Ant3	100	0	0
NVNT	g	2462	Ant0	100	0	0
NVNT	g	2462	Ant3	100	0	0
NVNT	n20	2412	Ant0	100	0	0
NVNT	n20	2412	Ant3	100	0	0
NVNT	n20	2412	Sum	100	0	0
NVNT	n20	2437	Ant0	100	0	0
NVNT	n20	2437	Ant3	100	0	0
NVNT	n20	2437	Sum	100	0	0
NVNT	n20	2462	Ant0	100	0	0
NVNT	n20	2462	Ant3	100	0	0
NVNT	n20	2462	Sum	100	0	0
NVNT	n40	2422	Ant0	100	0	0
NVNT	n40	2422	Ant3	100	0	0
NVNT	n40	2422	Sum	100	0	0
NVNT	n40	2437	Ant0	100	0	0
NVNT	n40	2437	Ant3	100	0	0
NVNT	n40	2437	Sum	100	0	0
NVNT	n40	2452	Ant0	100	0	0
NVNT	n40	2452	Ant3	100	0	0
NVNT	n40	2452	Sum	100	0	0
NVNT	ax20	2412	Ant0	100	0	0
NVNT	ax20	2412	Ant3	100	0	0

NVNT	ax20	2412	Sum	100	0	0
NVNT	ax20	2437	Ant0	100	0	0
NVNT	ax20	2437	Ant3	100	0	0
NVNT	ax20	2437	Sum	100	0	0
NVNT	ax20	2462	Ant0	100	0	0
NVNT	ax20	2462	Ant3	100	0	0
NVNT	ax20	2462	Sum	100	0	0
NVNT	ax40	2422	Ant0	100	0	0
NVNT	ax40	2422	Ant3	100	0	0
NVNT	ax40	2422	Sum	100	0	0
NVNT	ax40	2437	Ant0	100	0	0
NVNT	ax40	2437	Ant3	100	0	0
NVNT	ax40	2437	Sum	100	0	0
NVNT	ax40	2452	Ant0	100	0	0
NVNT	ax40	2452	Ant3	100	0	0
NVNT	ax40	2452	Sum	100	0	0
NVNT	ax20 26@8	2412	Ant0	85.76	0.67	0.2
NVNT	ax20 26@8	2412	Ant3	86.9	0.61	0.2
NVNT	ax20 26@8	2412	Sum	87.2	0.59	0.2
NVNT	ax20 26@8	2437	Ant0	87.5	0.58	0.2
NVNT	ax20 26@8	2437	Ant3	87.24	0.59	0.2
NVNT	ax20 26@8	2437	Sum	87.85	0.56	0.2
NVNT	ax20 26@8	2462	Ant0	87.5	0.58	0.2
NVNT	ax20 26@8	2462	Ant3	87.24	0.59	0.2
NVNT	ax20 26@8	2462	Sum	88.11	0.55	0.2
NVNT	ax20 52@37	2412	Ant0	87.22	0.59	0.2
NVNT	ax20 52@37	2412	Ant3	87.37	0.59	0.2
NVNT	ax20 52@37	2412	Sum	87.67	0.57	0.2
NVNT	ax20 52@37	2437	Ant0	87.52	0.58	0.2
NVNT	ax20 52@37	2437	Ant3	87.22	0.59	0.2
NVNT	ax20 52@37	2437	Sum	87.83	0.56	0.2
NVNT	ax20 52@37	2462	Ant0	87.21	0.59	0
NVNT	ax20 52@37	2462	Ant3	87.22	0.59	0.2
NVNT	ax20 52@37	2462	Sum	92.81	0.32	0
NVNT	ax20 106@53	2412	Ant0	76.19	1.18	0.42
NVNT	ax20 106@53	2412	Ant3	77.49	1.11	0.41
NVNT	ax20 106@53	2412	Sum	75.08	1.24	0.41
NVNT	ax20 106@53	2437	Ant0	76.75	1.15	0.41

NVNT	ax20 106@53	2437	Ant3	76.51	1.16	0.41
NVNT	ax20 106@53	2437	Sum	77.49	1.11	0.41
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NVNT	ax20 106@53	2462	Ant3	77.74	1.09	0.41
NVNT	ax20 106@53	2462	Sum	77.24	1.12	0.41
NVNT	ax40 26@0	2422	Ant0	87.24	0.59	0.2
NVNT	ax40 26@0	2422	Ant3	87.8	0.56	0.2
NVNT	ax40 26@0	2422	Sum	87.2	0.59	0.2
NVNT	ax40 26@0	2437	Ant0	87.24	0.59	0.2
NVNT	ax40 26@0	2437	Ant3	87.2	0.59	0.2
NVNT	ax40 26@0	2437	Sum	87.5	0.58	0.2
NVNT	ax40 26@0	2452	Ant0	87.2	0.59	0.2
NVNT	ax40 26@0	2452	Ant3	87.2	0.59	0.2
NVNT	ax40 26@0	2452	Sum	87.2	0.59	0.2
NVNT	ax40 52@37	2422	Ant0	89.51	0.48	0
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NVNT	ax40 52@37	2422	Sum	86.9	0.61	0.2
NVNT	ax40 52@37	2437	Ant0	88.41	0.53	0
NVNT	ax40 52@37	2437	Ant3	87.67	0.57	0.2
NVNT	ax40 52@37	2437	Sum	87.2	0.59	0.2
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NVNT	ax40 242@61	2422	Sum	59.56	2.25	0.92
NVNT	ax40 242@61	2437	Ant0	59.56	2.25	0.92
NVNT	ax40 242@61	2437	Ant3	59.89	2.23	0.92
NVNT	ax40 242@61	2437	Sum	60.89	2.15	0.92

NVNT	ax40 242@61	2452	Ant0	59.89	2.23	0.92
NVNT	ax40 242@61	2452	Ant3	60.22	2.2	0.92
NVNT	ax40 242@61	2452	Sum	61.58	2.11	0.92
NVNT	b	2412	Ant1	100	0	0
NVNT	b	2412	Ant2	100	0	0
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NVNT	b	2462	Ant2	100	0	0
NVNT	g	2412	Ant1	100	0	0
NVNT	g	2412	Ant2	100	0	0
NVNT	g	2437	Ant1	100	0	0
NVNT	g	2437	Ant2	100	0	0
NVNT	g	2462	Ant1	100	0	0
NVNT	g	2462	Ant2	100	0	0
NVNT	n20	2412	Ant1	100	0	0
NVNT	n20	2412	Ant2	100	0	0
NVNT	n20	2412	Sum	100	0	0
NVNT	n20	2437	Ant1	100	0	0
NVNT	n20	2437	Ant2	100	0	0
NVNT	n20	2437	Sum	100	0	0
NVNT	n20	2462	Ant1	100	0	0
NVNT	n20	2462	Ant2	100	0	0
NVNT	n20	2462	Sum	100	0	0
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NVNT	n40	2452	Ant2	100	0	0
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NVNT	ax20	2412	Sum	100	0	0
NVNT	ax20	2437	Ant1	100	0	0
NVNT	ax20	2437	Ant2	100	0	0

NVNT	ax20	2437	Sum	100	0	0
NVNT	ax20	2462	Ant1	100	0	0
NVNT	ax20	2462	Ant2	100	0	0
NVNT	ax20	2462	Sum	100	0	0
NVNT	ax40	2422	Ant1	100	0	0
NVNT	ax40	2422	Ant2	100	0	0
NVNT	ax40	2422	Sum	100	0	0
NVNT	ax40	2437	Ant1	100	0	0
NVNT	ax40	2437	Ant2	100	0	0
NVNT	ax40	2437	Sum	100	0	0
NVNT	ax40	2452	Ant1	100	0	0
NVNT	ax40	2452	Ant2	100	0	0
NVNT	ax40	2452	Sum	100	0	0
NVNT	ax20 26@0	2412	Ant1	87.24	0.59	0.2
NVNT	ax20 26@0	2412	Ant2	87.5	0.58	0.2
NVNT	ax20 26@0	2412	Sum	87.24	0.59	0.2
NVNT	ax20 26@0	2437	Ant1	87.24	0.59	0.2
NVNT	ax20 26@0	2437	Ant2	87.2	0.59	0.2
NVNT	ax20 26@0	2437	Sum	87.54	0.58	0.2
NVNT	ax20 26@0	2462	Ant1	87.2	0.59	0.2
NVNT	ax20 26@0	2462	Ant2	87.8	0.56	0.2
NVNT	ax20 26@0	2462	Sum	87.2	0.59	0.2
NVNT	ax20 52@37	2412	Ant1	77.58	1.1	0.39
NVNT	ax20 52@37	2412	Ant2	78.53	1.05	0.39
NVNT	ax20 52@37	2412	Sum	78.22	1.07	0.39
NVNT	ax20 52@37	2437	Ant1	78.05	1.08	0.39
NVNT	ax20 52@37	2437	Ant2	77.81	1.09	0.39
NVNT	ax20 52@37	2437	Sum	78.29	1.06	0.39
NVNT	ax20 52@37	2462	Ant1	77.51	1.11	0.39
NVNT	ax20 52@37	2462	Ant2	77.81	1.09	0.39
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NVNT	ax20 106@53	2412	Ant1	64.58	1.9	0.81
NVNT	ax20 106@53	2412	Ant2	62.63	2.03	0.81
NVNT	ax20 106@53	2412	Sum	62.63	2.03	0.81
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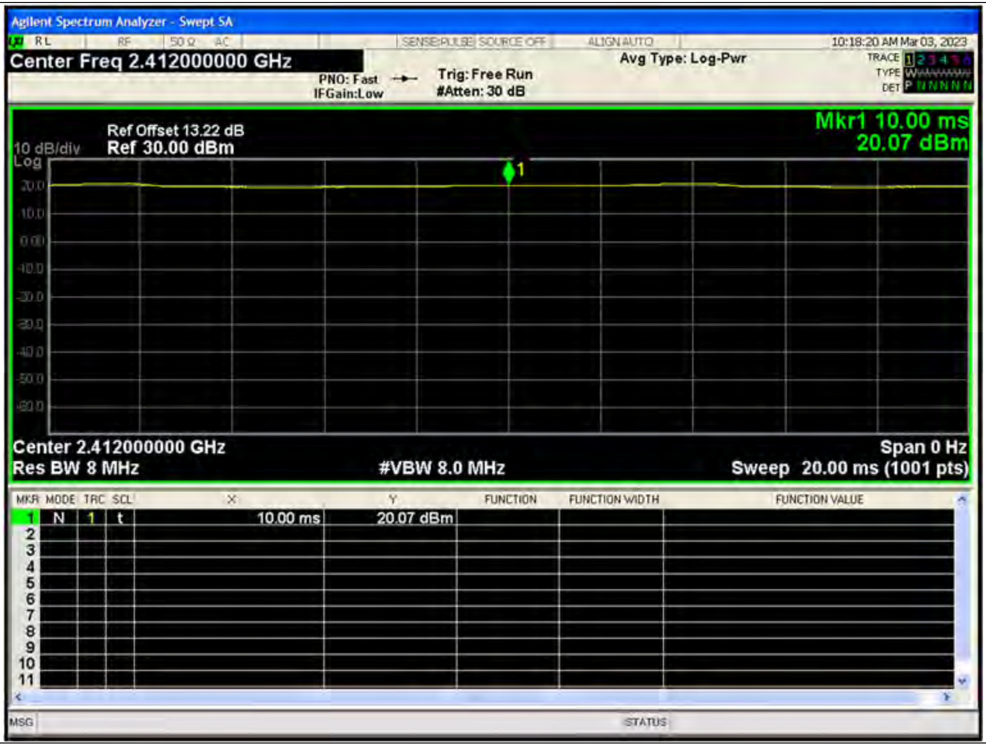
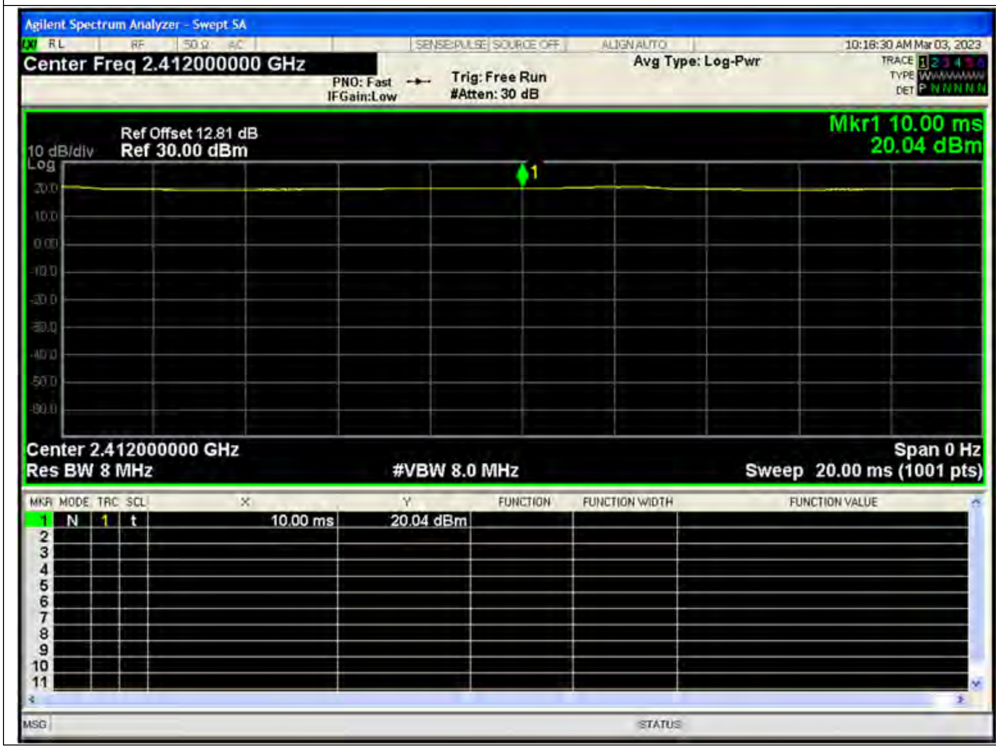
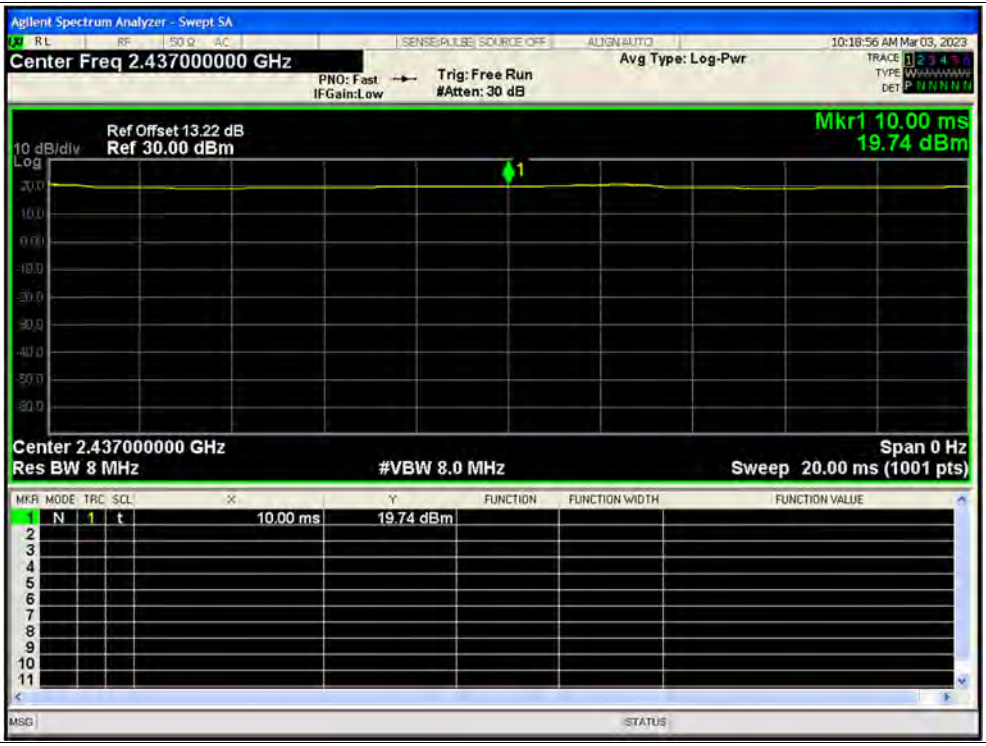
NVNT	ax20 106@53	2437	Sum	63.59	1.97	0.81
NVNT	ax20 106@53	2462	Ant1	61.69	2.1	0.81

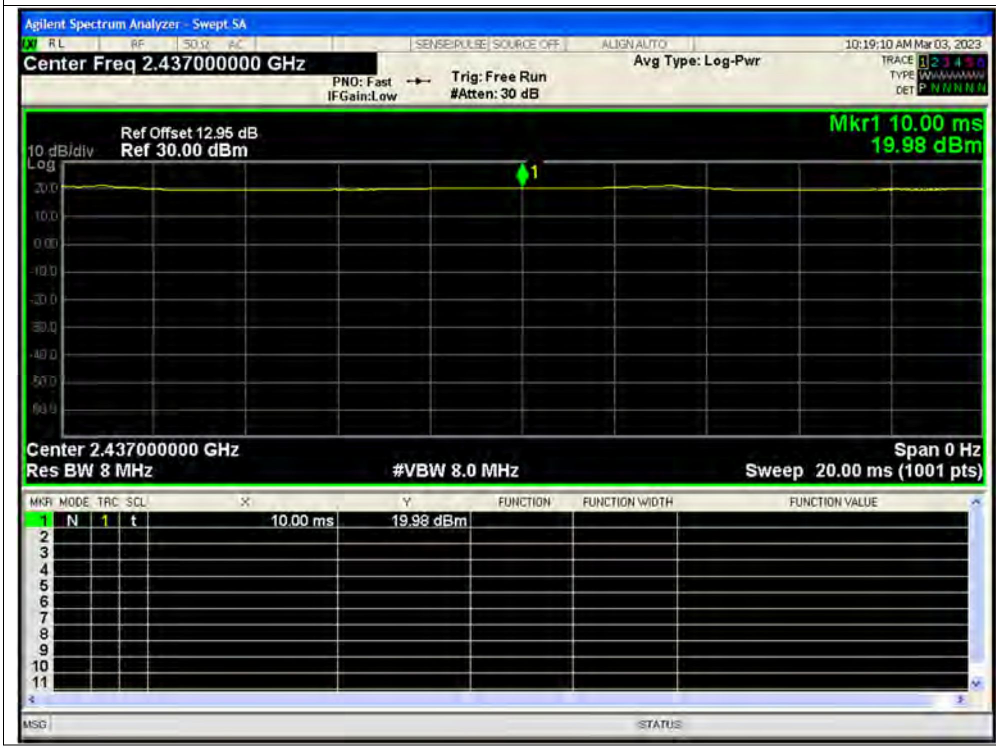
NVNT	ax20 106@53	2462	Ant2	63.27	1.99	0.81
NVNT	ax20 106@53	2462	Sum	62.94	2.01	0.81
NVNT	ax40 26@0	2422	Ant1	87.2	0.59	0.2
NVNT	ax40 26@0	2422	Ant2	89.08	0.5	0.2
NVNT	ax40 26@0	2422	Sum	86.6	0.62	0.2
NVNT	ax40 26@0	2437	Ant1	87.2	0.59	0.2
NVNT	ax40 26@0	2437	Ant2	86.3	0.64	0.2
NVNT	ax40 26@0	2437	Sum	87.2	0.59	0.2
NVNT	ax40 26@0	2452	Ant1	87.24	0.59	0.2
NVNT	ax40 26@0	2452	Ant2	87.54	0.58	0.2
NVNT	ax40 26@0	2452	Sum	87.54	0.58	0.2
NVNT	ax40 52@37	2422	Ant1	77.51	1.11	0.39
NVNT	ax40 52@37	2422	Ant2	78.46	1.05	0.39
NVNT	ax40 52@37	2422	Sum	87.37	0.59	0.2
NVNT	ax40 52@37	2437	Ant1	77.51	1.11	0.39
NVNT	ax40 52@37	2437	Ant2	77.81	1.09	0.39
NVNT	ax40 52@37	2437	Sum	87.67	0.57	0.2
NVNT	ax40 52@37	2452	Ant1	77.51	1.11	0.39
NVNT	ax40 52@37	2452	Ant2	77.58	1.1	0.39
NVNT	ax40 52@37	2452	Sum	87.67	0.57	0.2
NVNT	ax40 106@53	2422	Ant1	62.94	2.01	0.81
NVNT	ax40 106@53	2422	Ant2	63.92	1.94	0.81
NVNT	ax40 106@53	2422	Sum	77.74	1.09	0.41
NVNT	ax40 106@53	2437	Ant1	76.51	1.16	0.41
NVNT	ax40 106@53	2437	Ant2	75.08	1.24	0.41
NVNT	ax40 106@53	2437	Sum	76.51	1.16	0.41
NVNT	ax40 106@53	2452	Ant1	76.51	1.16	0.41
NVNT	ax40 106@53	2452	Ant2	74.84	1.26	0.41
NVNT	ax40 106@53	2452	Sum	77.49	1.11	0.41
NVNT	ax40 242@61	2422	Ant1	59.34	2.27	0.93
NVNT	ax40 242@61	2422	Ant2	61.36	2.12	0.93
NVNT	ax40 242@61	2422	Sum	60.34	2.19	0.93
NVNT	ax40 242@61	2437	Ant1	57.37	2.41	0.92
NVNT	ax40 242@61	2437	Ant2	59.56	2.25	0.92
NVNT	ax40 242@61	2437	Sum	60.89	2.15	0.92
NVNT	ax40 242@61	2452	Ant1	60.22	2.2	0.92
NVNT	ax40 242@61	2452	Ant2	59.24	2.27	0.92
NVNT	ax40 242@61	2452	Sum	59.34	2.27	0.93

Test Graphs
Duty Cycle NVNT b 2412MHz Ant0

Duty Cycle NVNT b 2412MHz Ant3


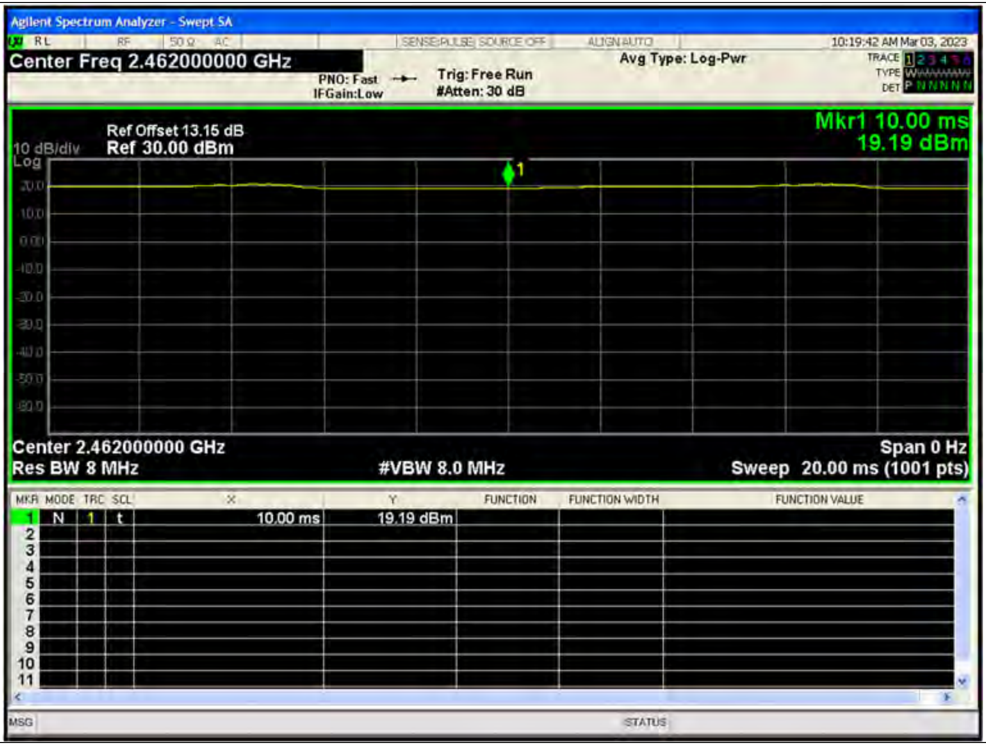
Duty Cycle NVNT b 2437MHz Ant0



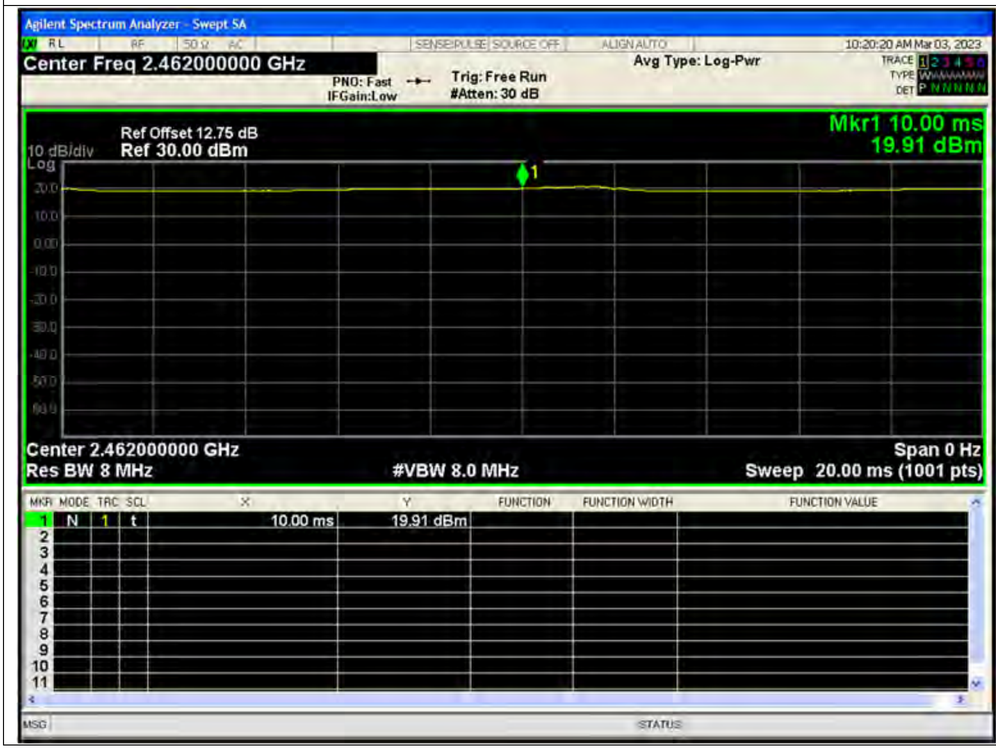
Duty Cycle NVNT b 2437MHz Ant3

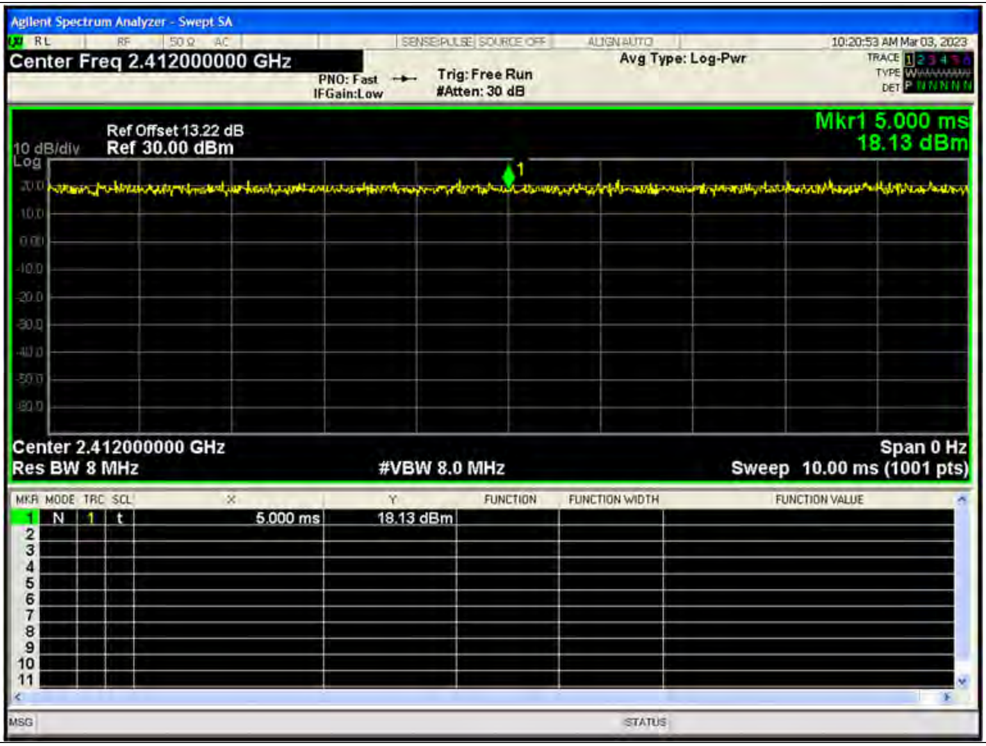
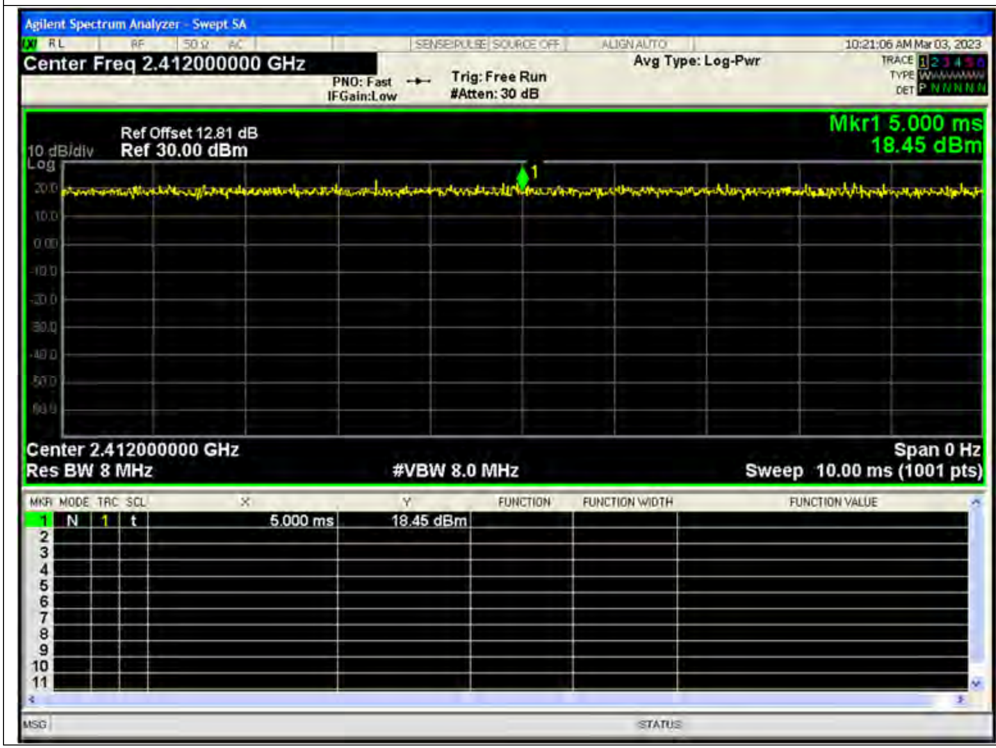


Duty Cycle NVNT b 2462MHz Ant0

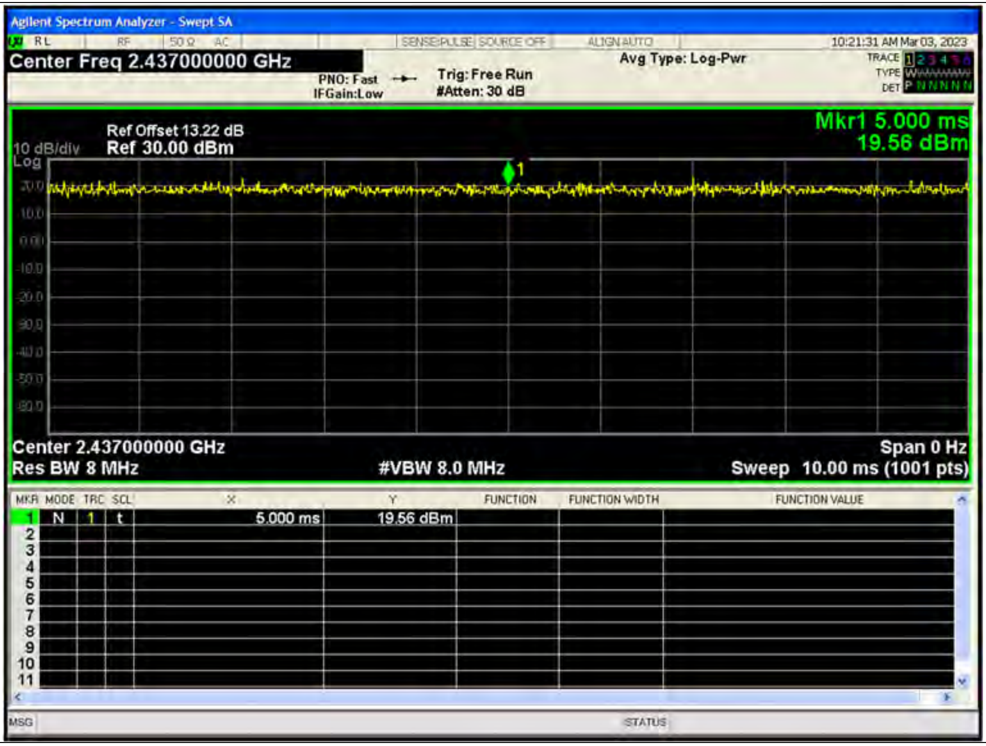


Duty Cycle NVNT b 2462MHz Ant3

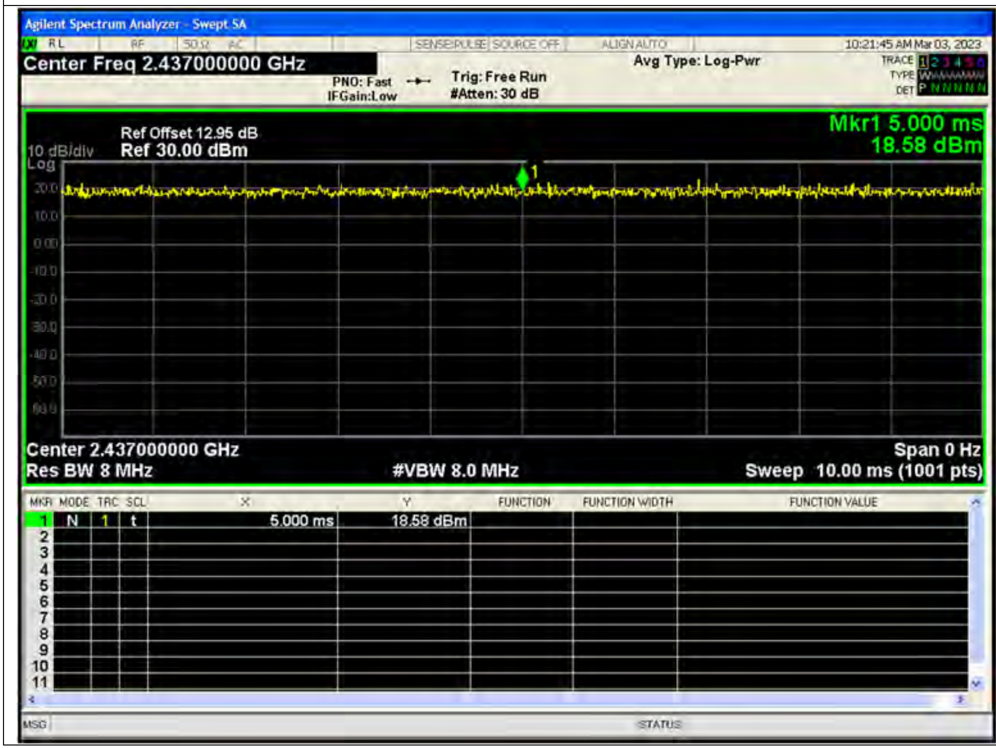


Duty Cycle NVNT g 2412MHz Ant0

Duty Cycle NVNT g 2412MHz Ant3


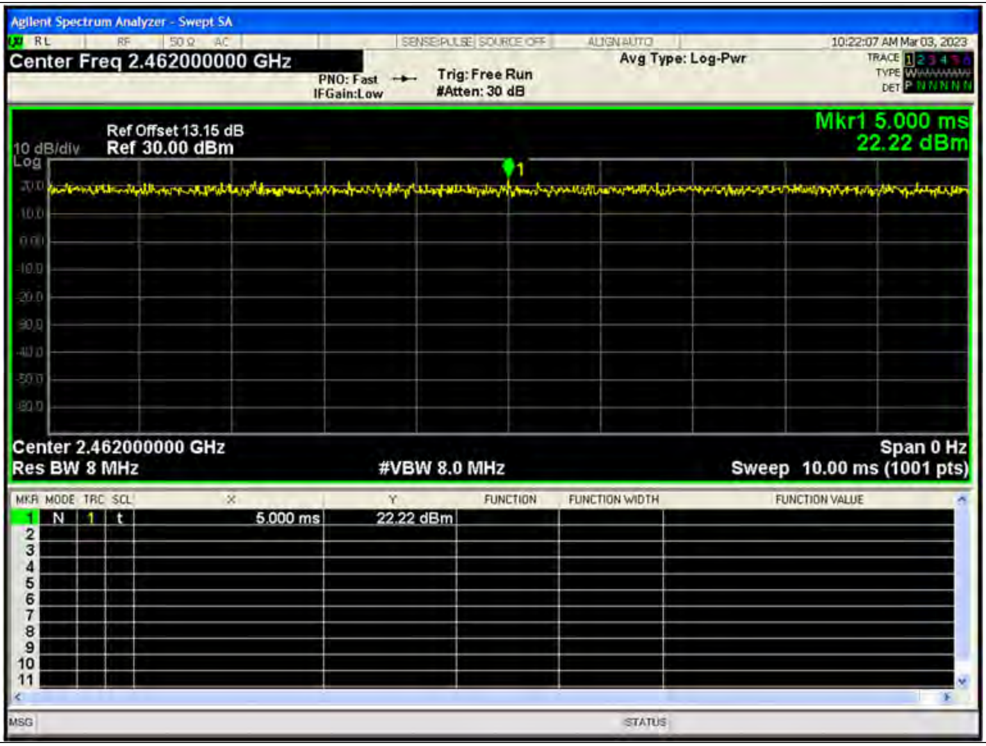
Duty Cycle NVNT g 2437MHz Ant0



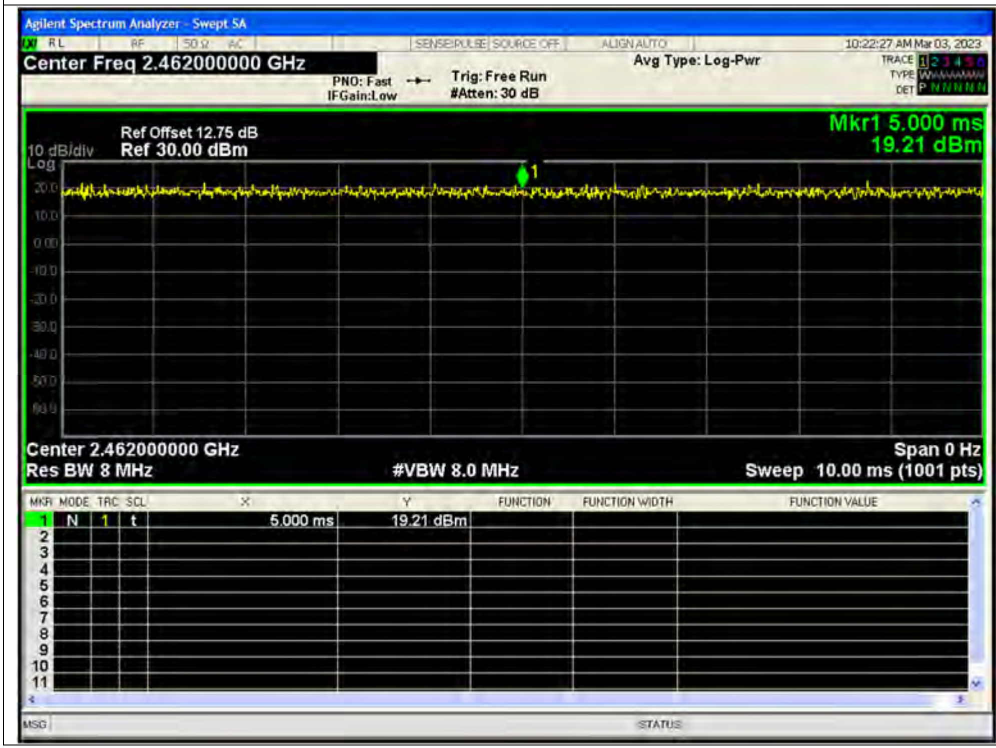
Duty Cycle NVNT g 2437MHz Ant3



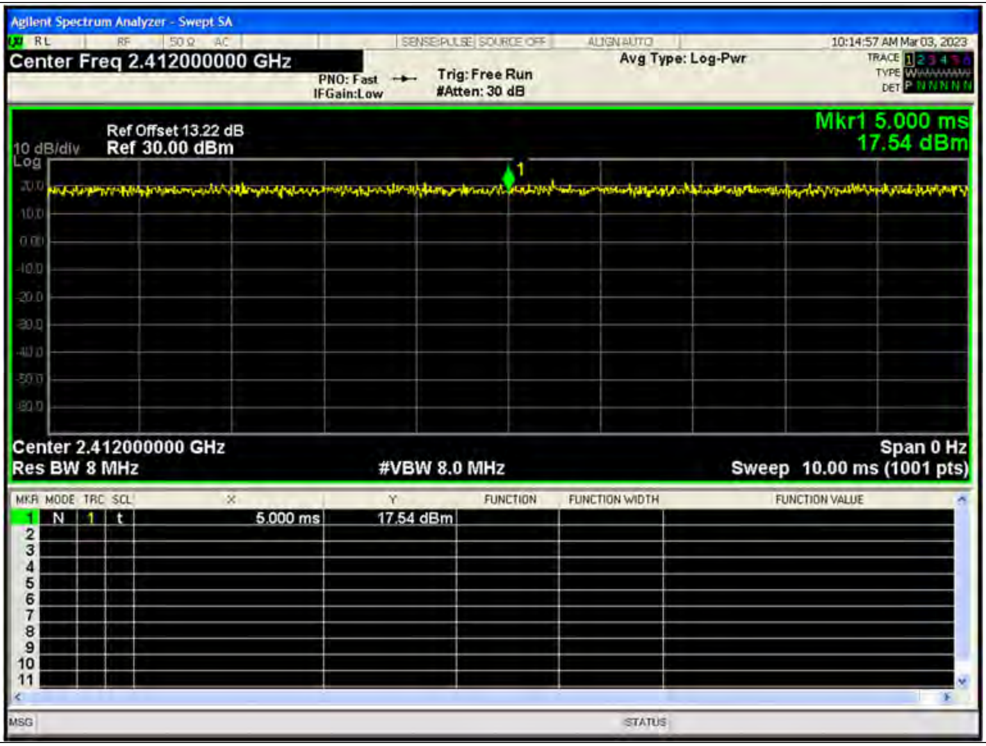
Duty Cycle NVNT g 2462MHz Ant0



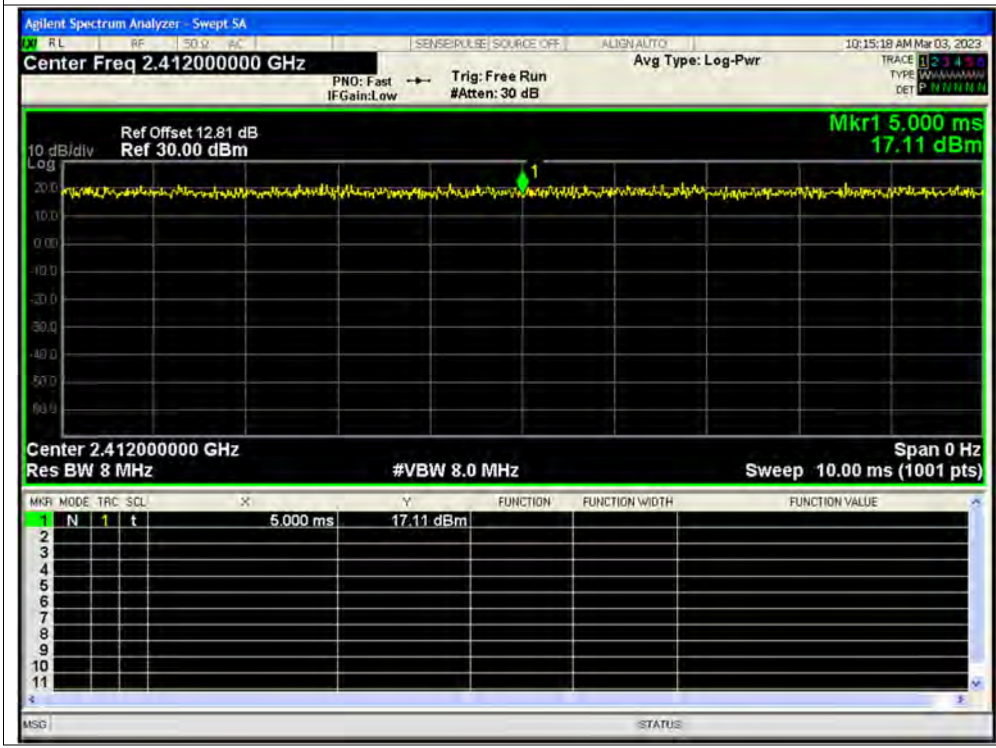
Duty Cycle NVNT g 2462MHz Ant3



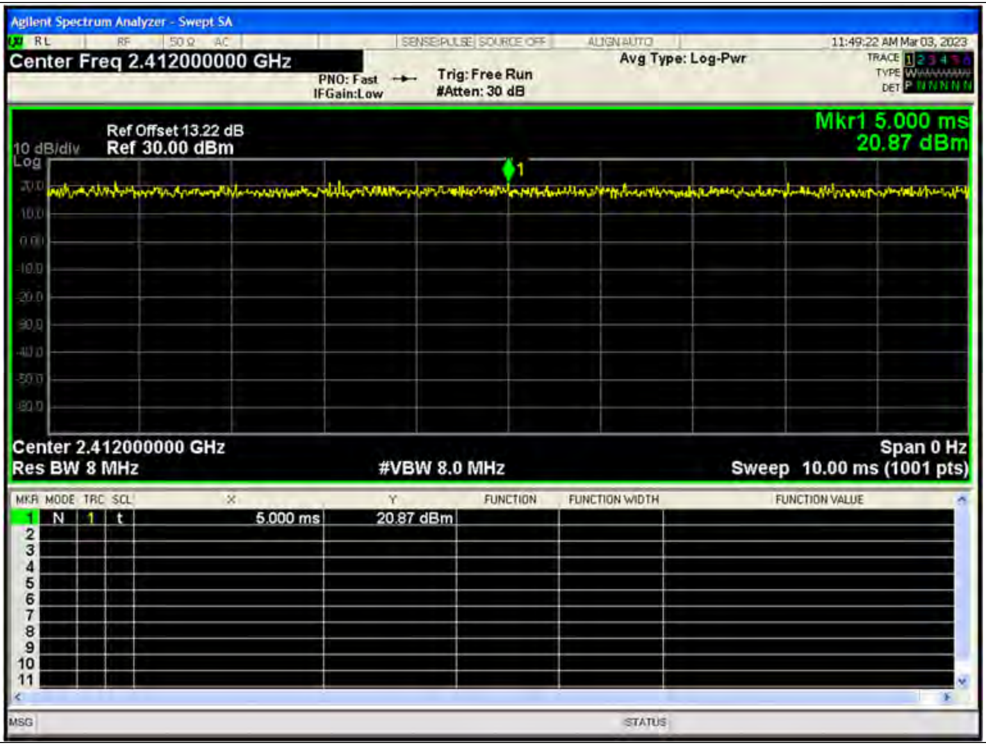
Duty Cycle NVNT n20 2412MHz Ant0



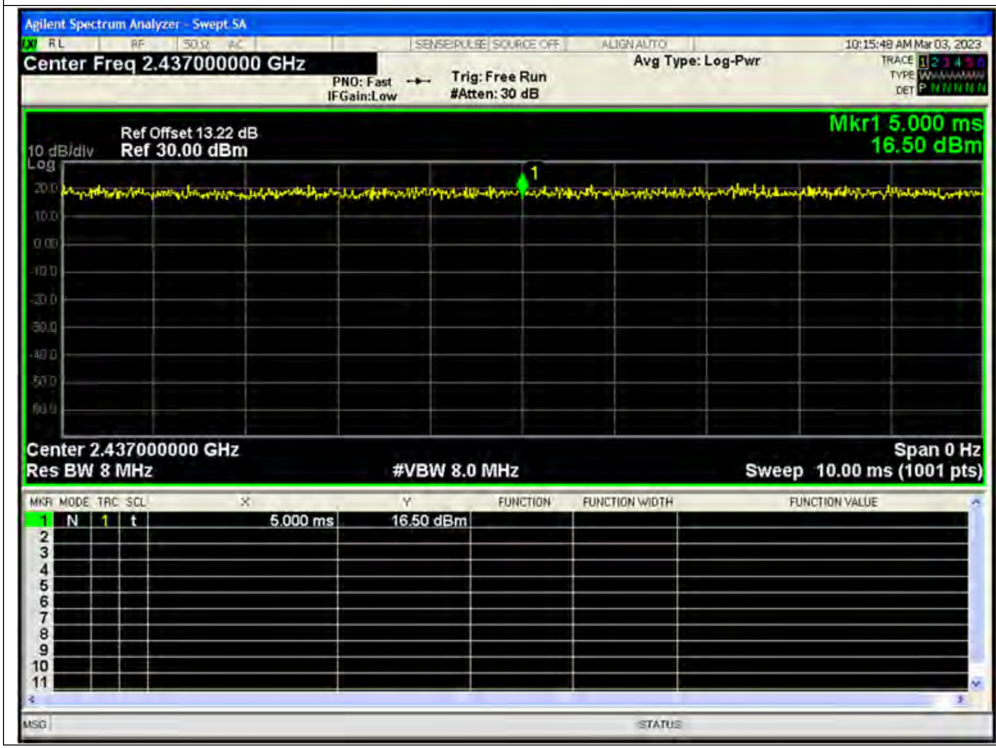
Duty Cycle NVNT n20 2412MHz Ant3



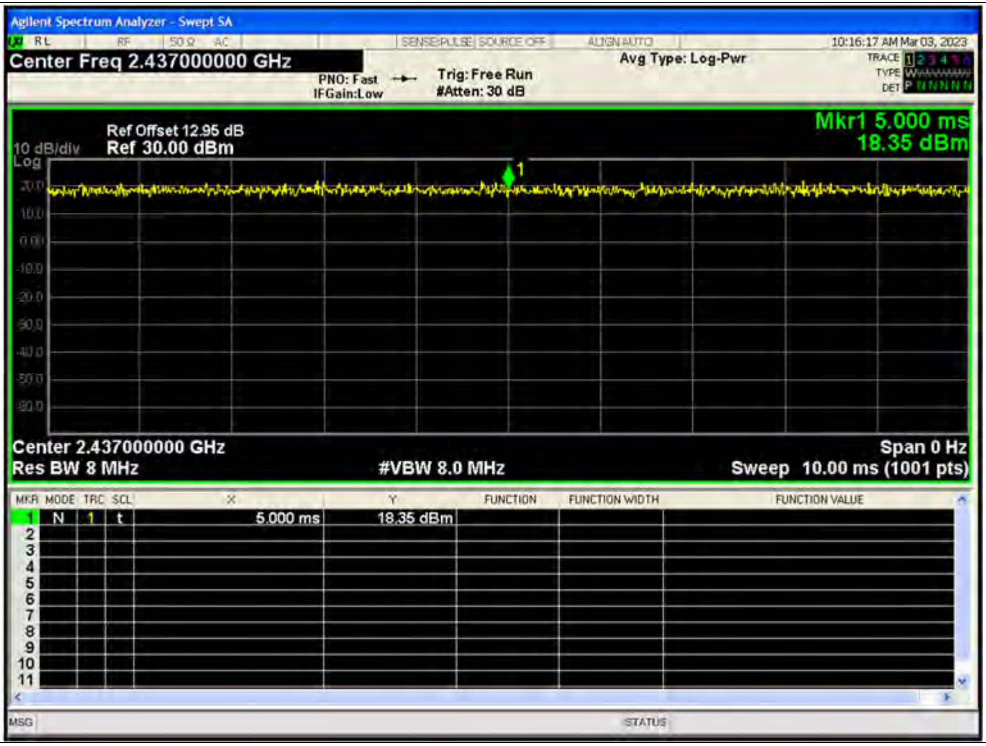
Duty Cycle NVNT n20 2412MHz Sum



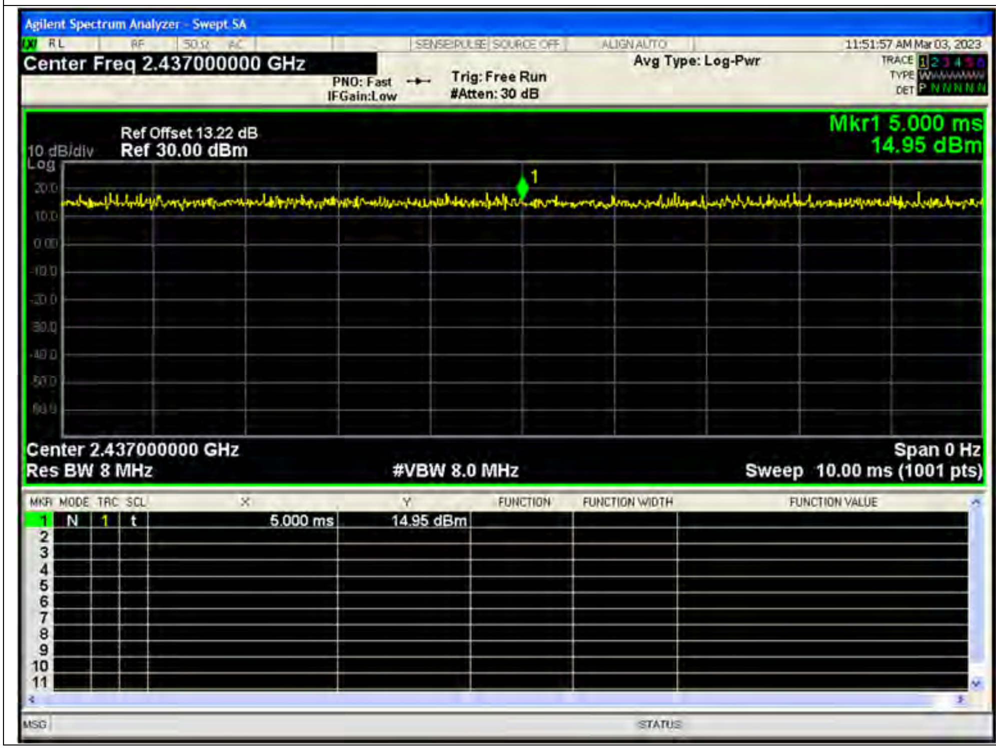
Duty Cycle NVNT n20 2437MHz Ant0

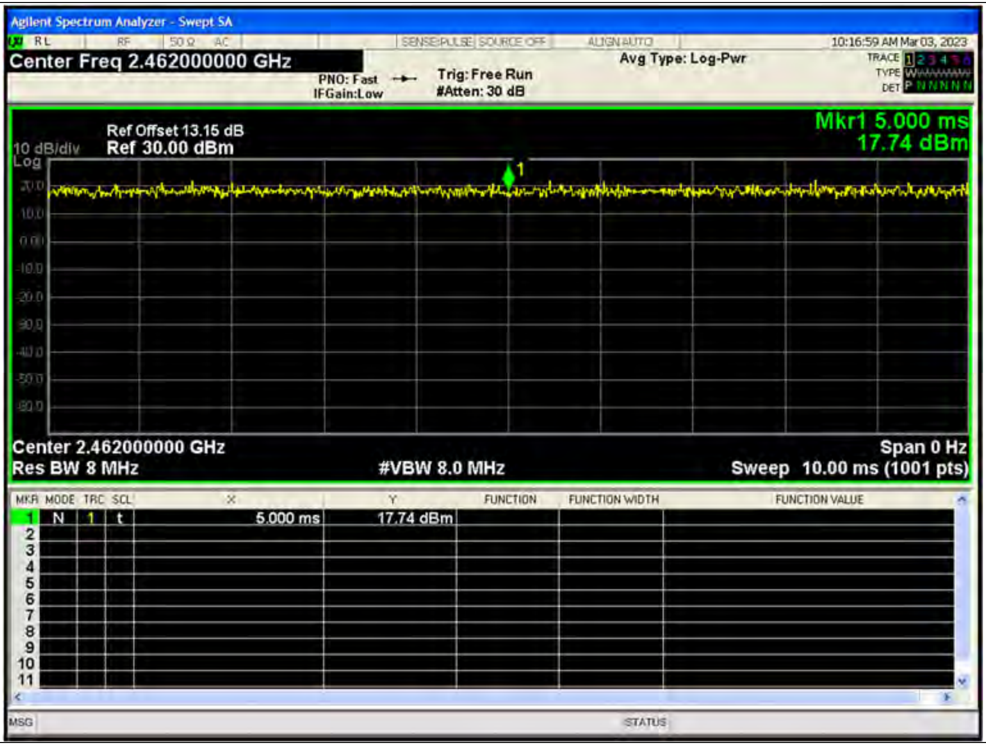
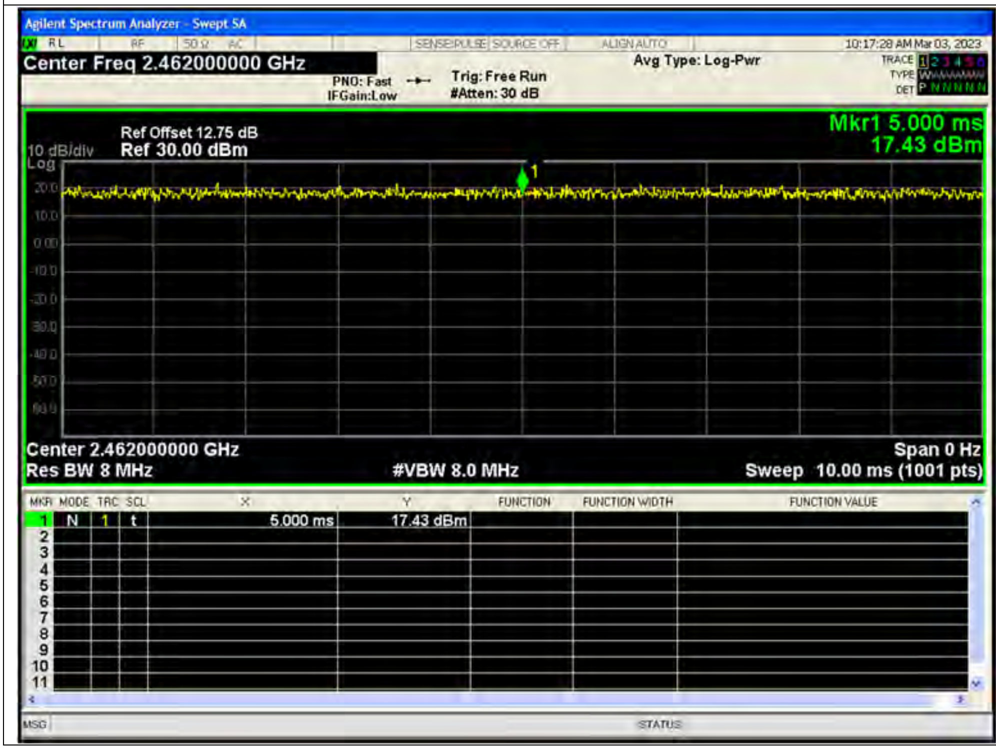


Duty Cycle NVNT n20 2437MHz Ant3

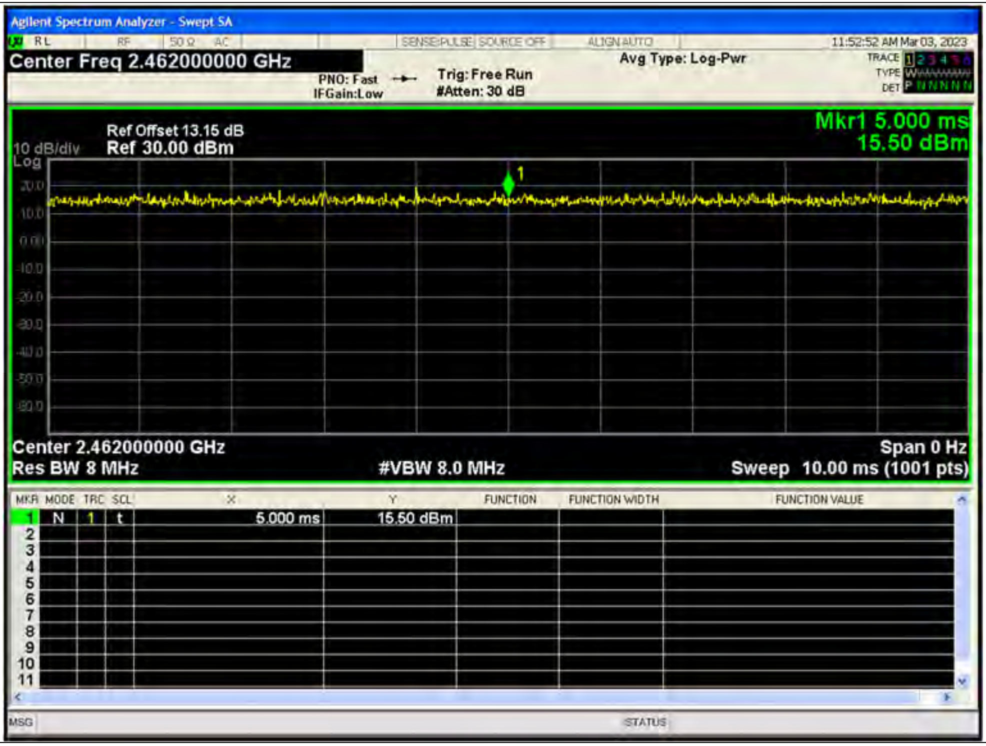


Duty Cycle NVNT n20 2437MHz Sum

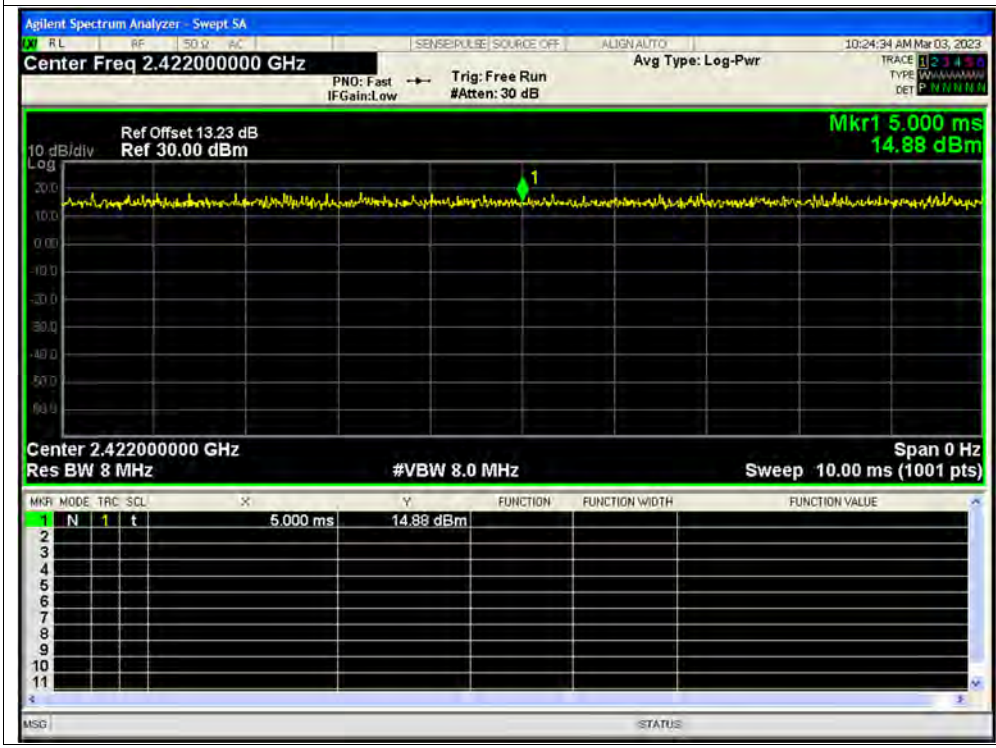


Duty Cycle NVNT n20 2462MHz Ant0

Duty Cycle NVNT n20 2462MHz Ant3


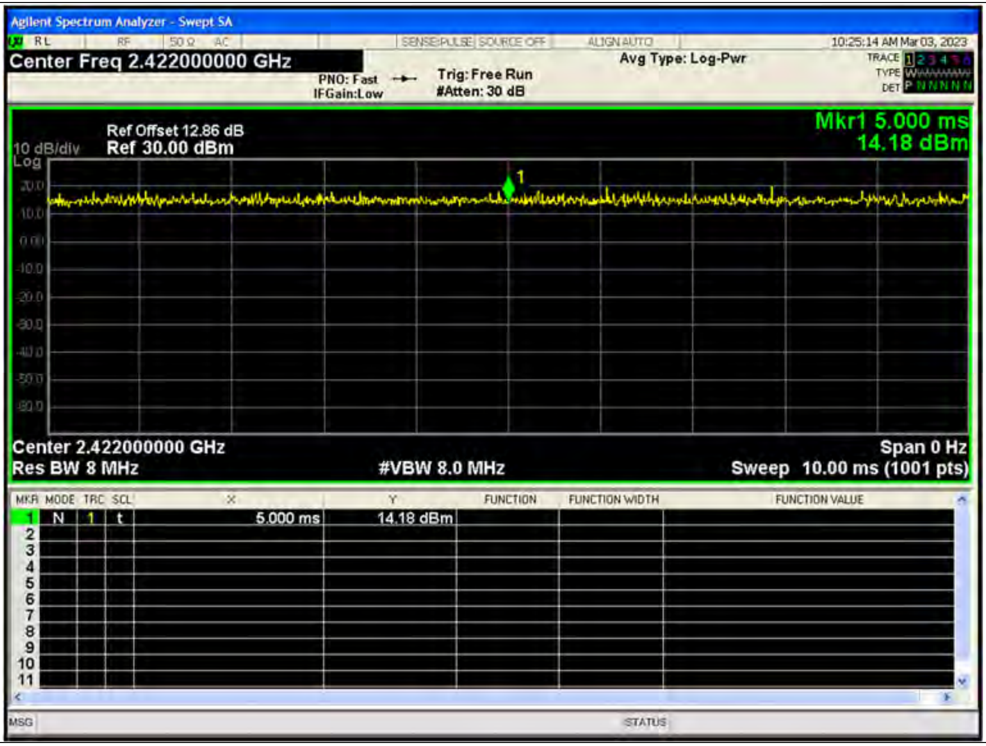
Duty Cycle NVNT n20 2462MHz Sum



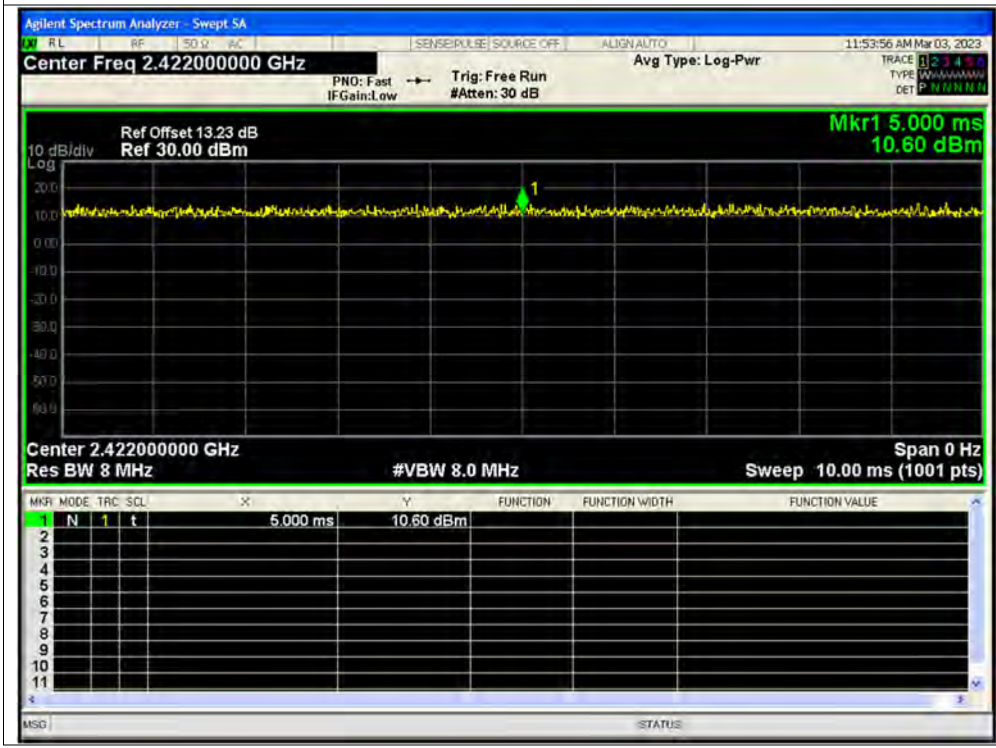
Duty Cycle NVNT n40 2422MHz Ant0



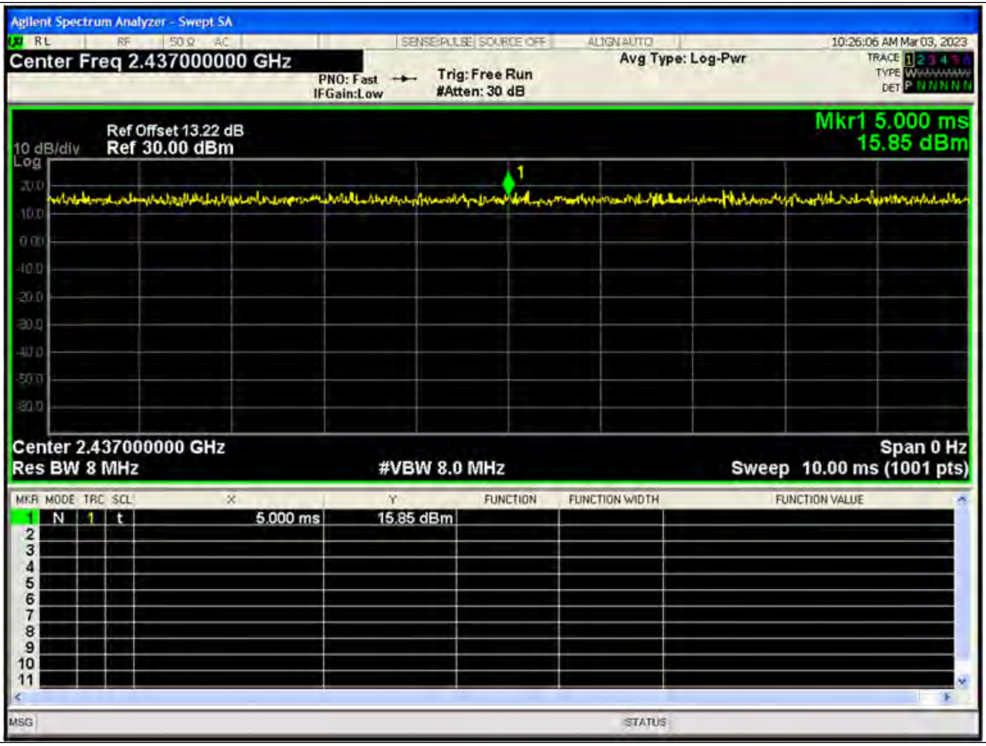
Duty Cycle NVNT n40 2422MHz Ant3



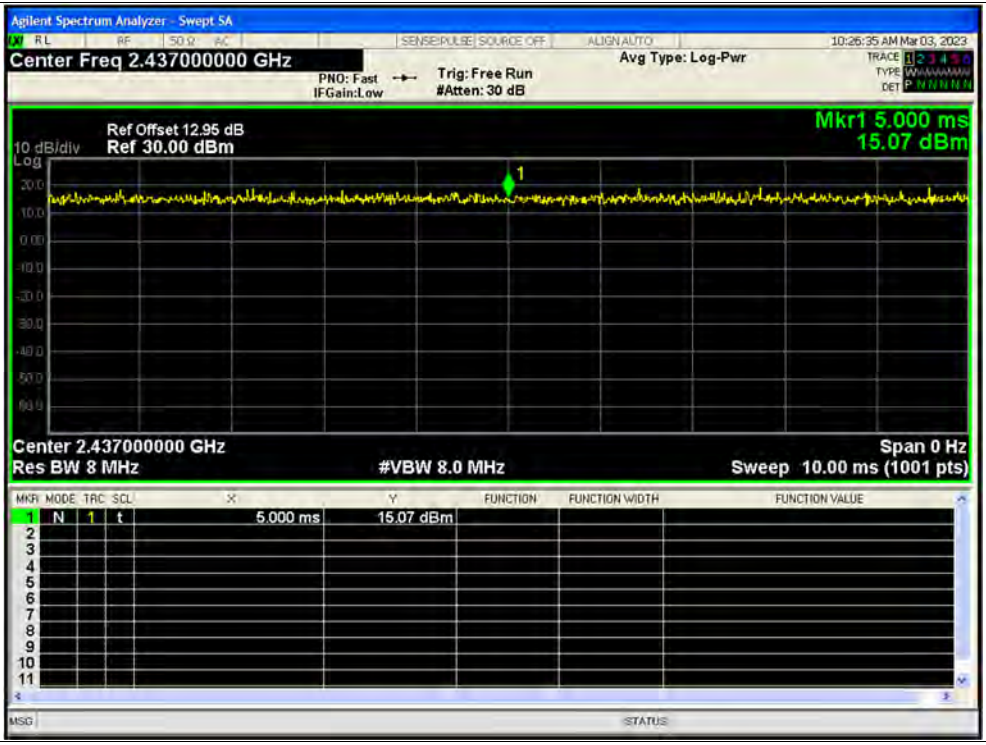
Duty Cycle NVNT n40 2422MHz Sum



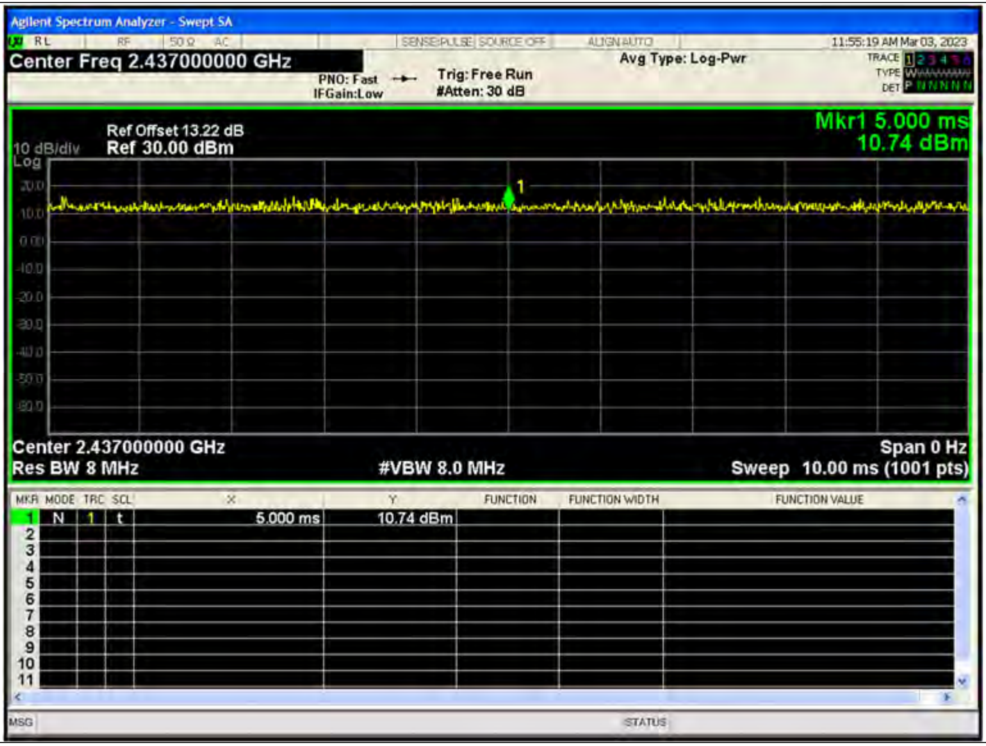
Duty Cycle NVNT n40 2437MHz Ant0



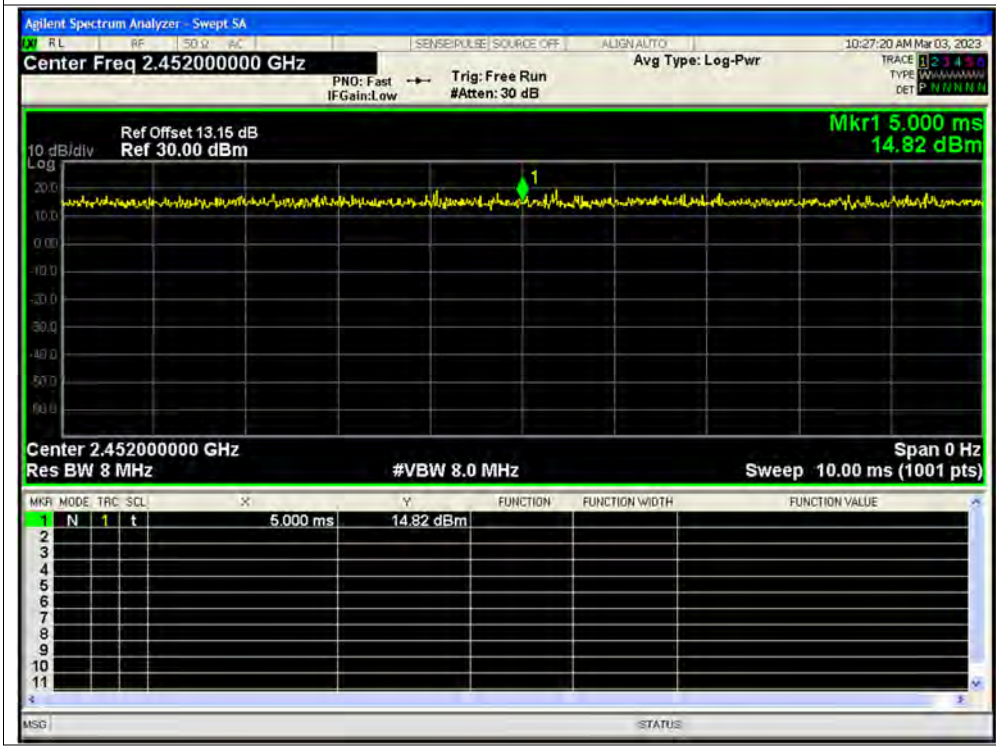
Duty Cycle NVNT n40 2437MHz Ant3



Duty Cycle NVNT n40 2437MHz Sum



Duty Cycle NVNT n40 2452MHz Ant0



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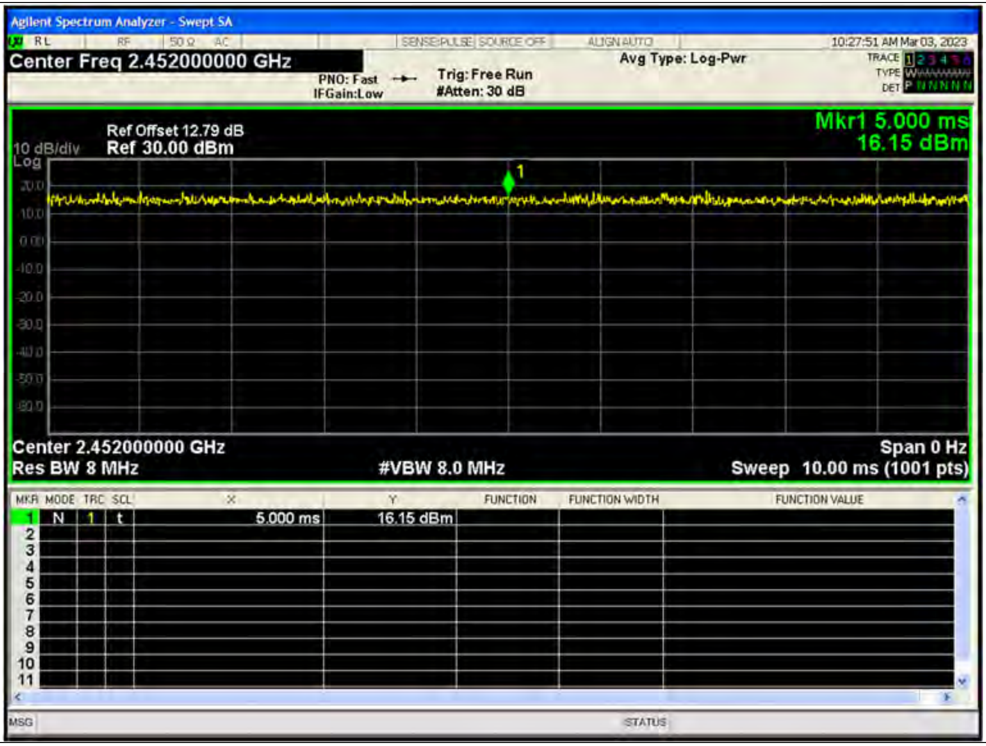
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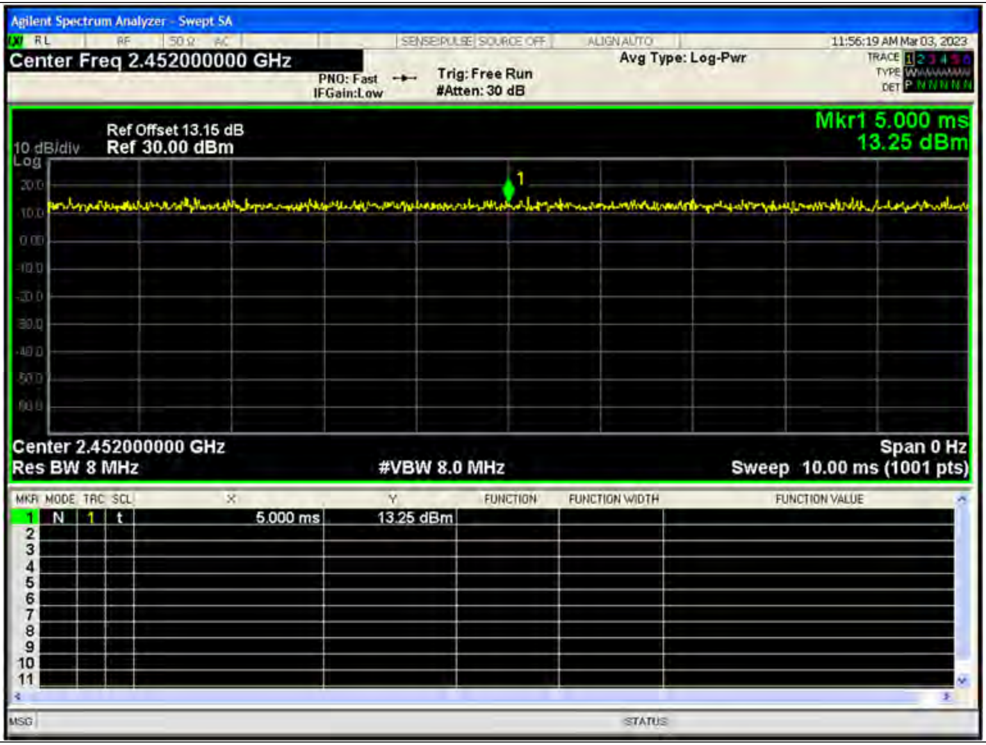
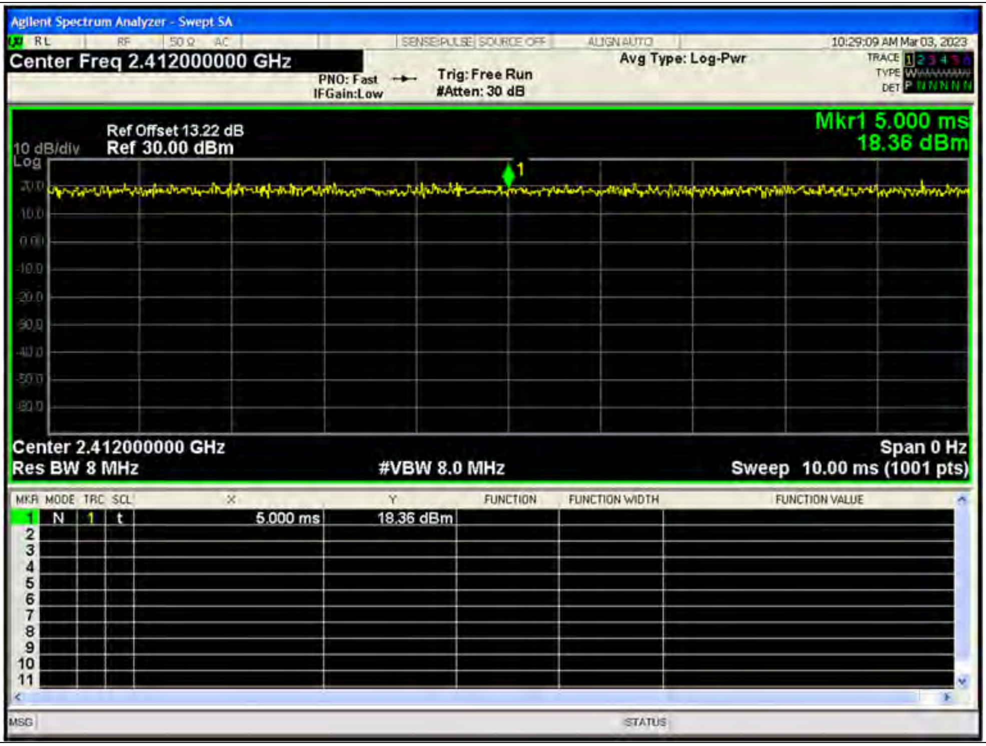


Duty Cycle NVNT ax20 2412MHz Ant0



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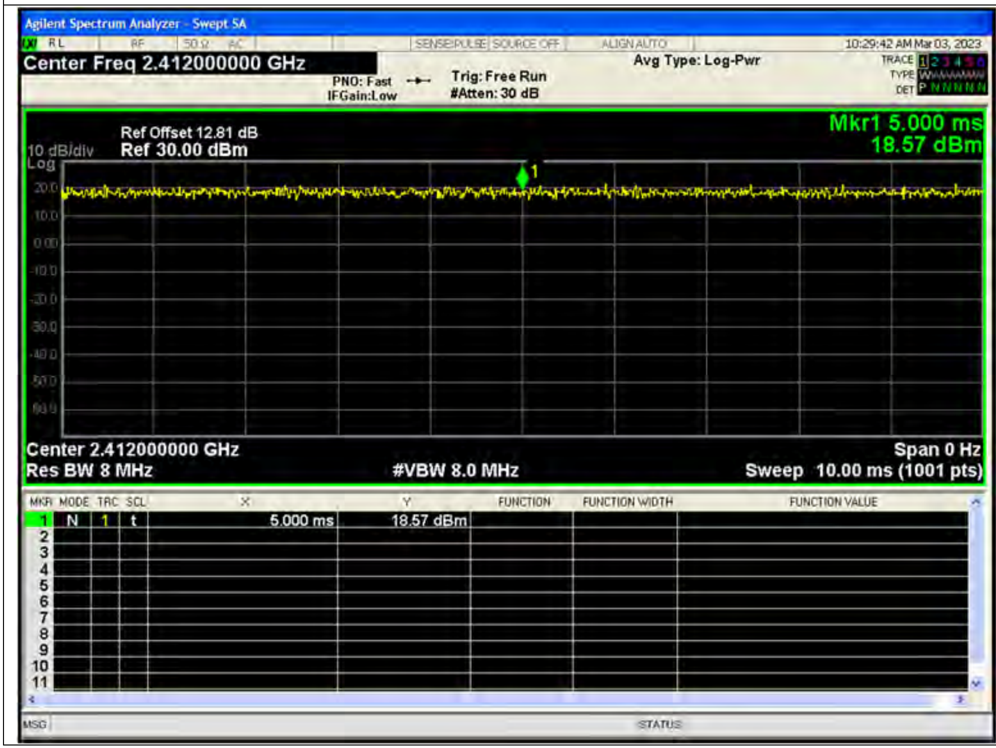

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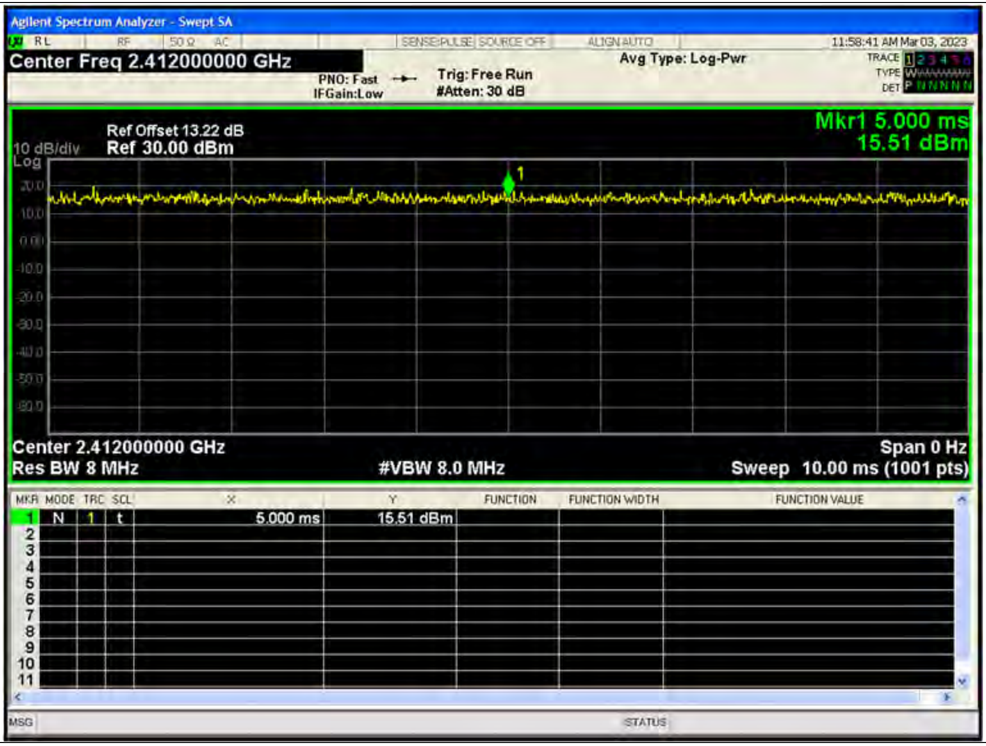

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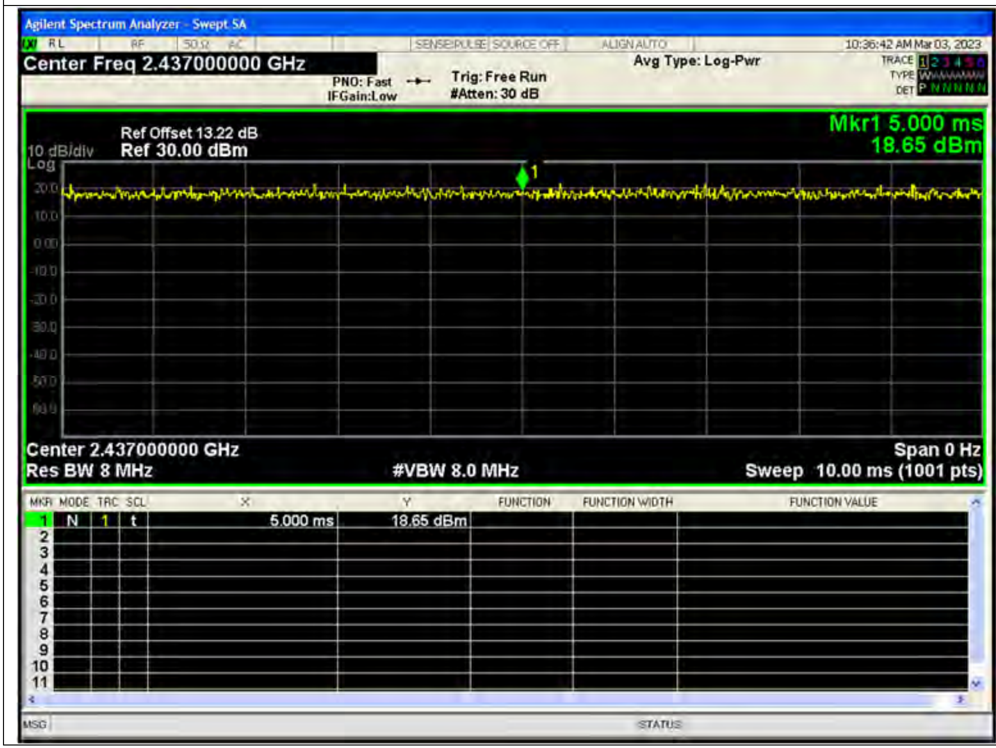

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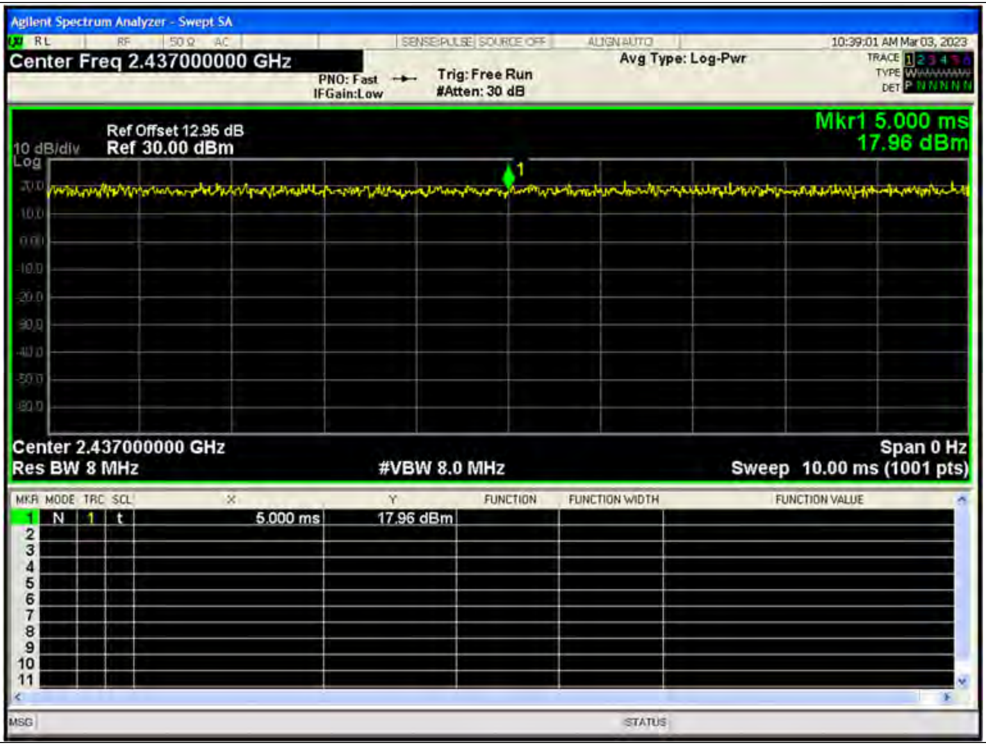

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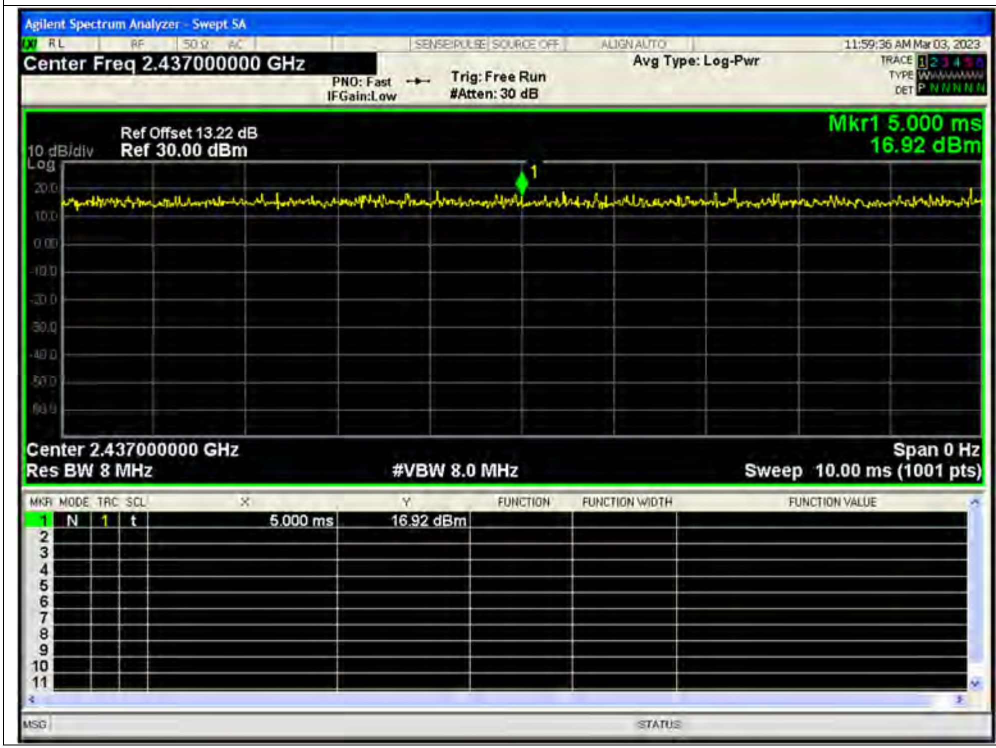

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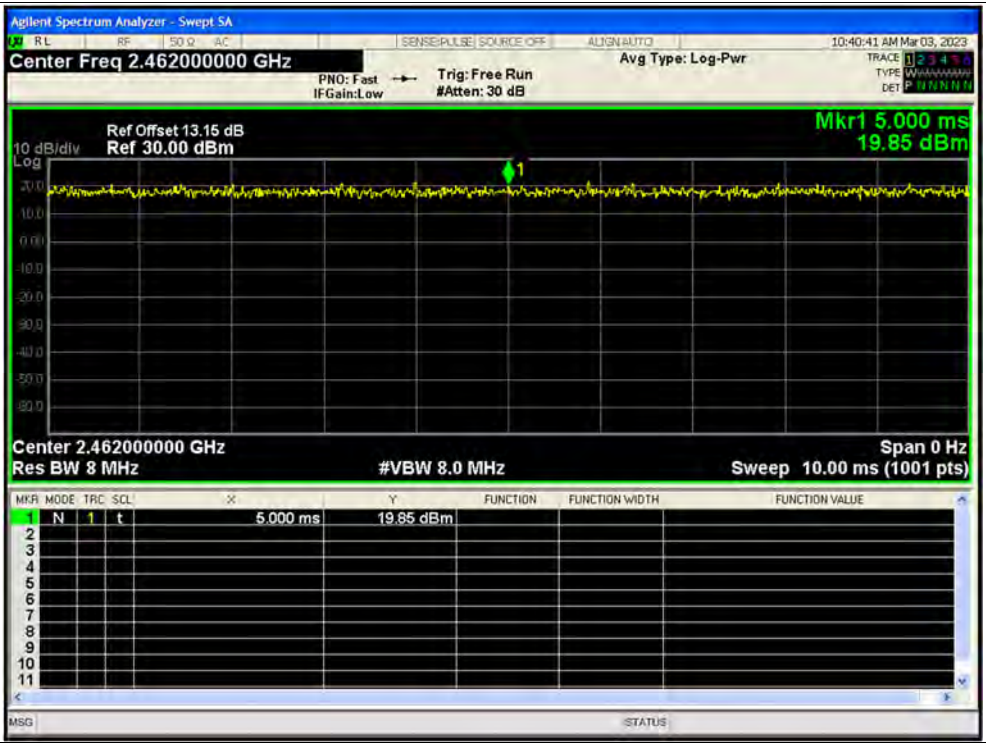

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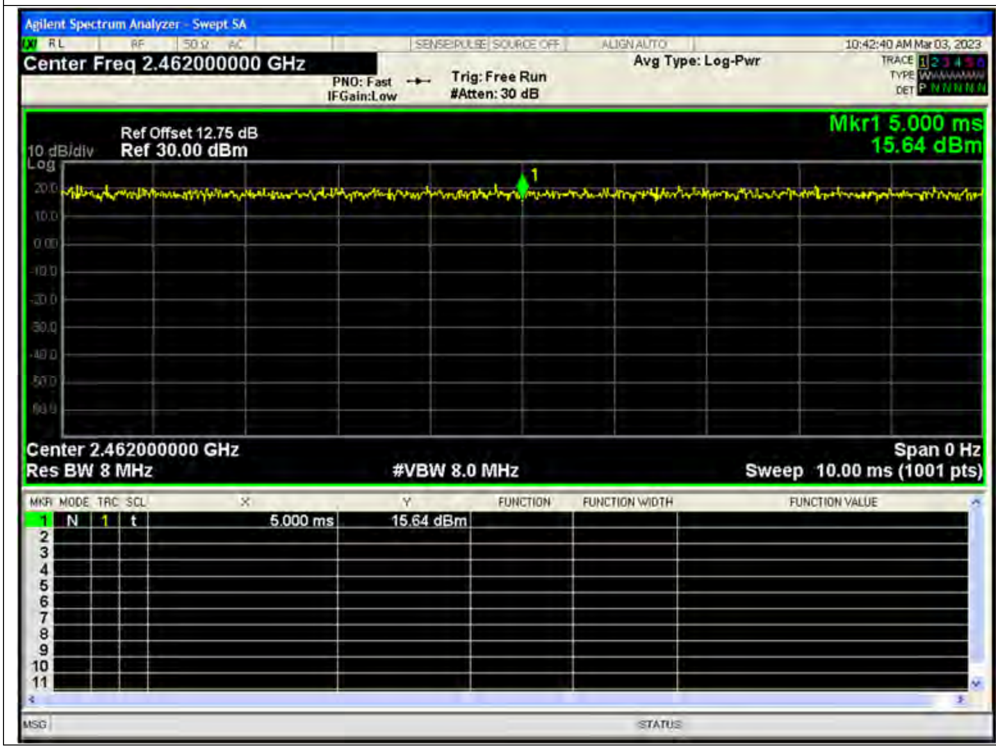

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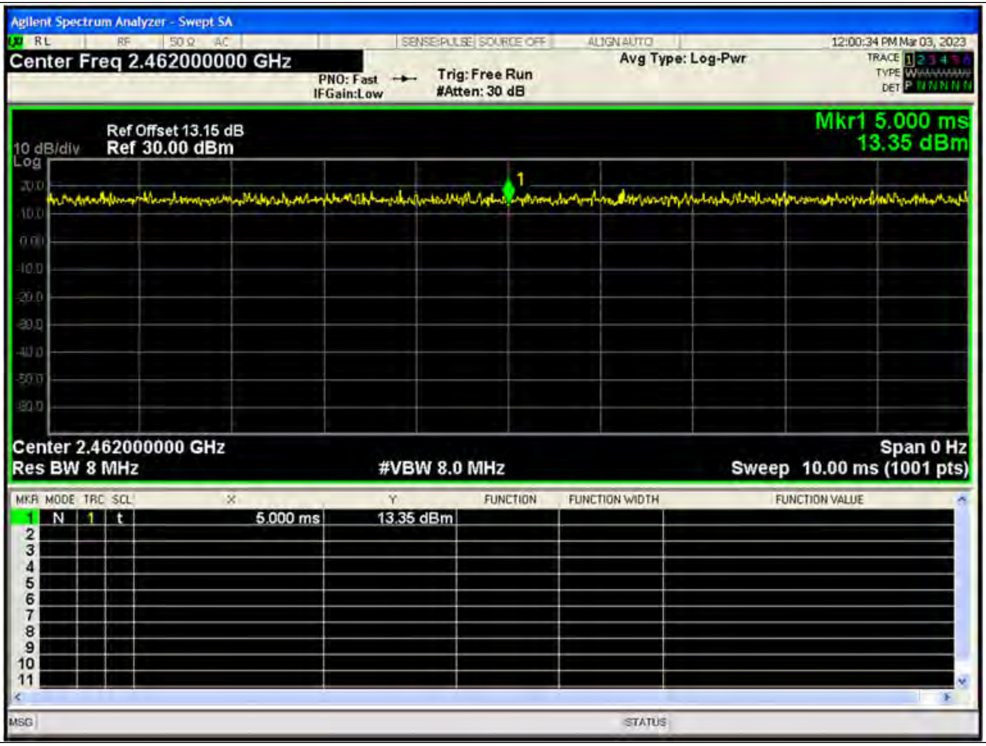
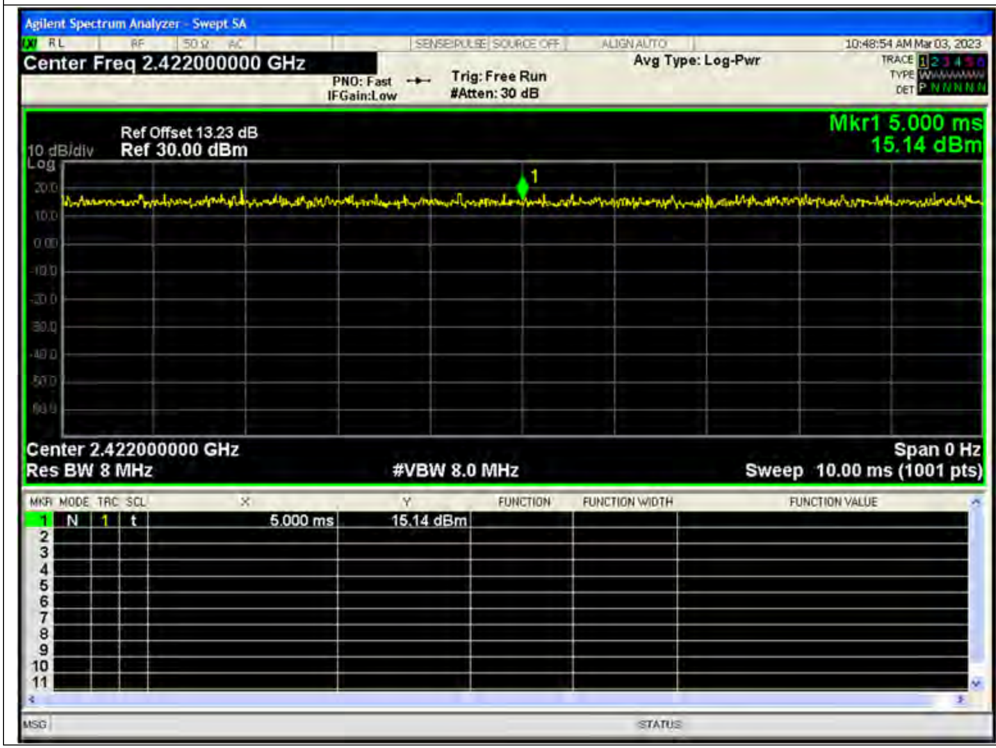


Duty Cycle NVNT ax40 2422MHz Ant0



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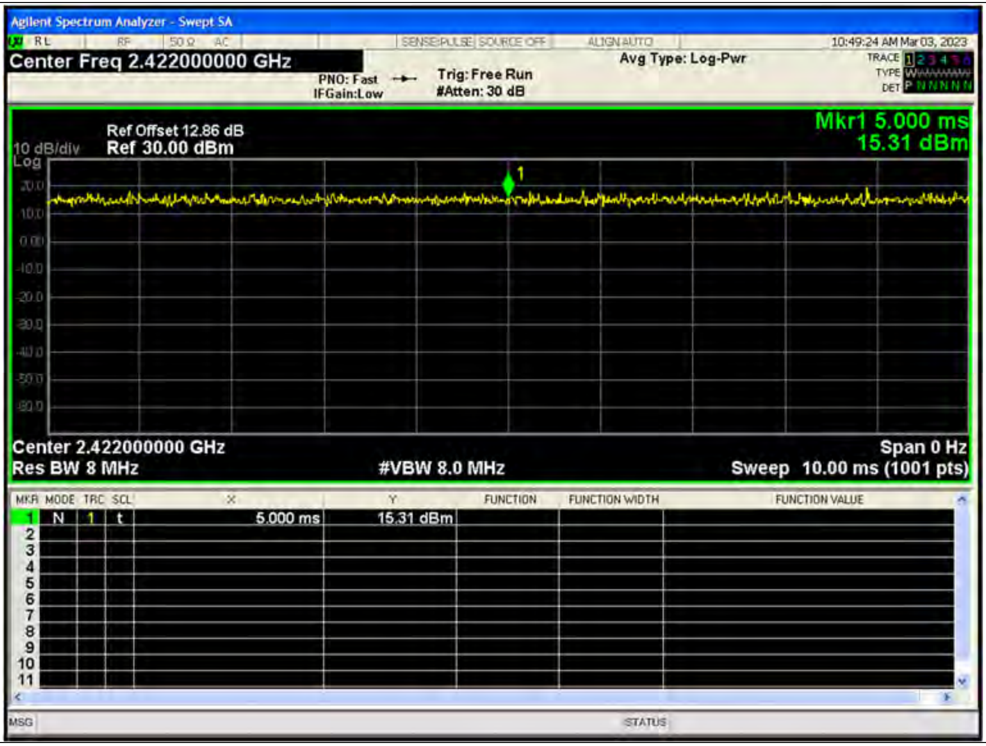

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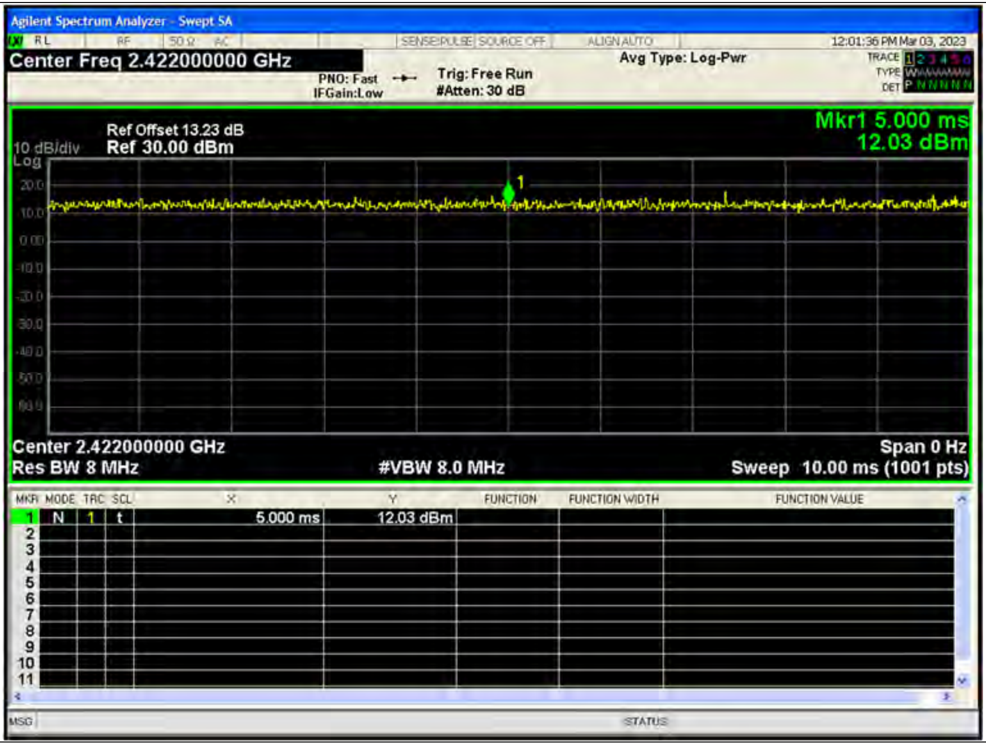

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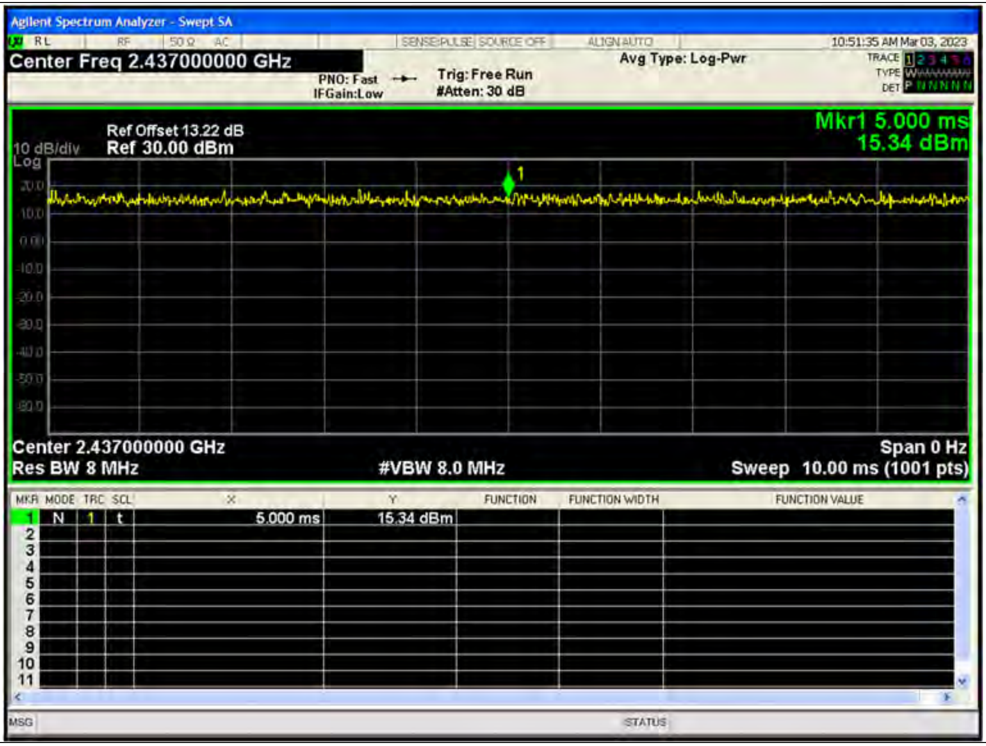

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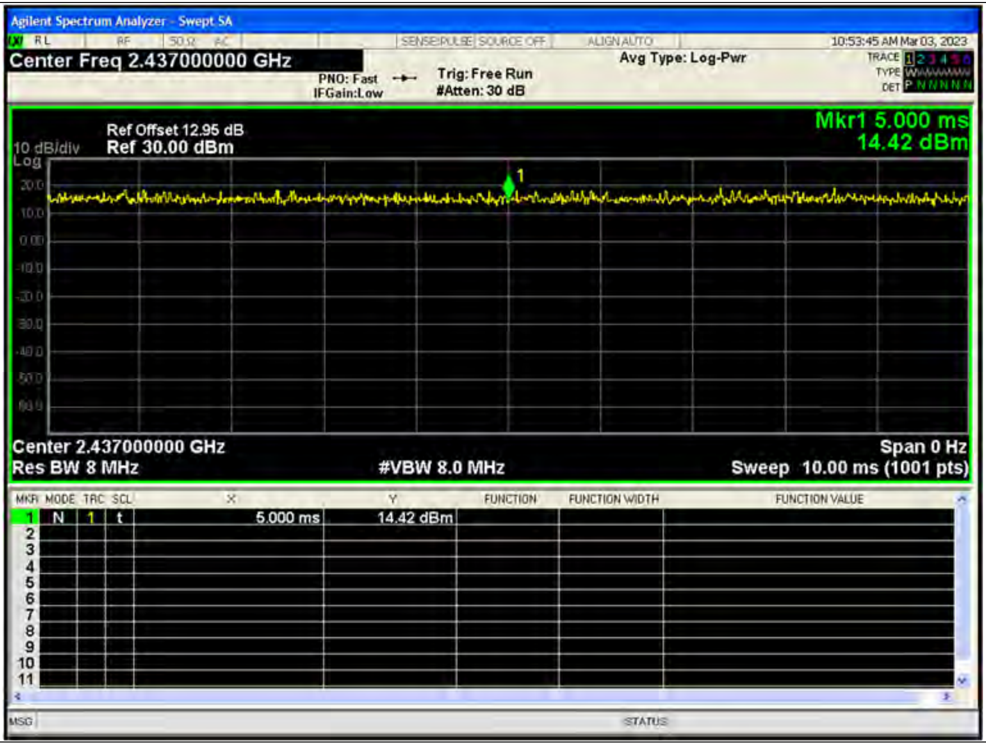

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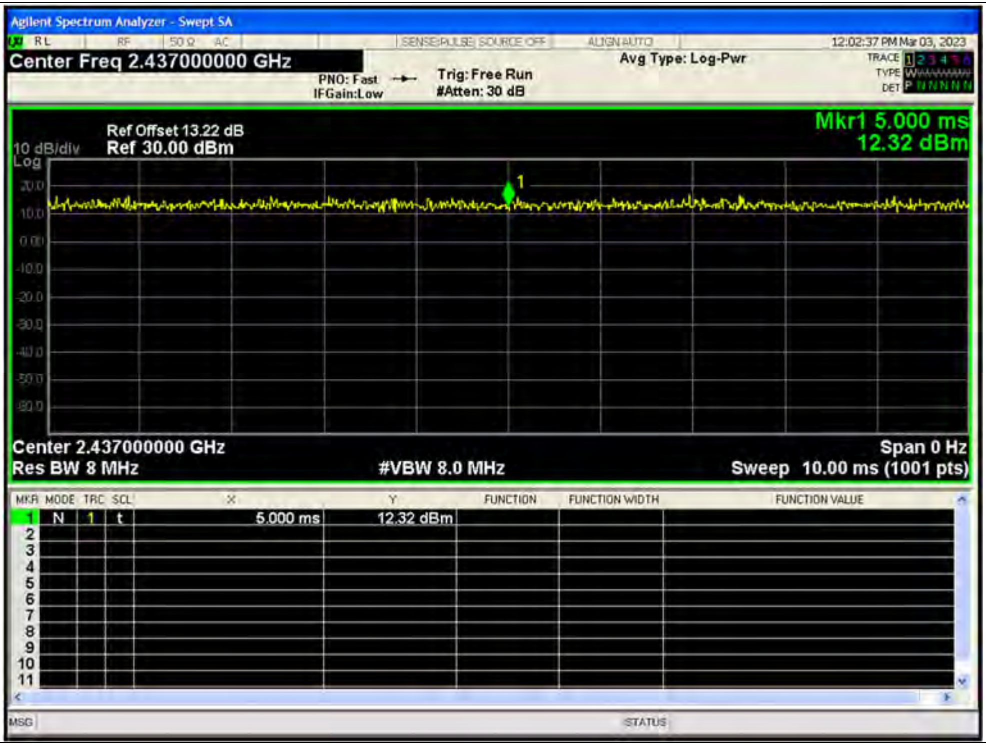

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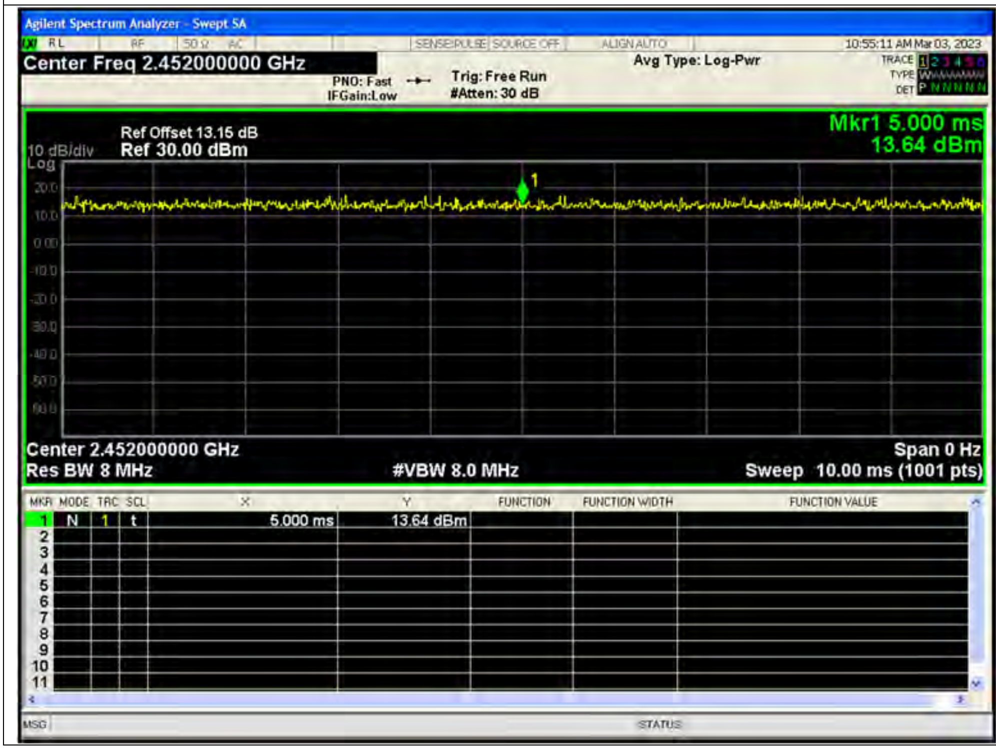

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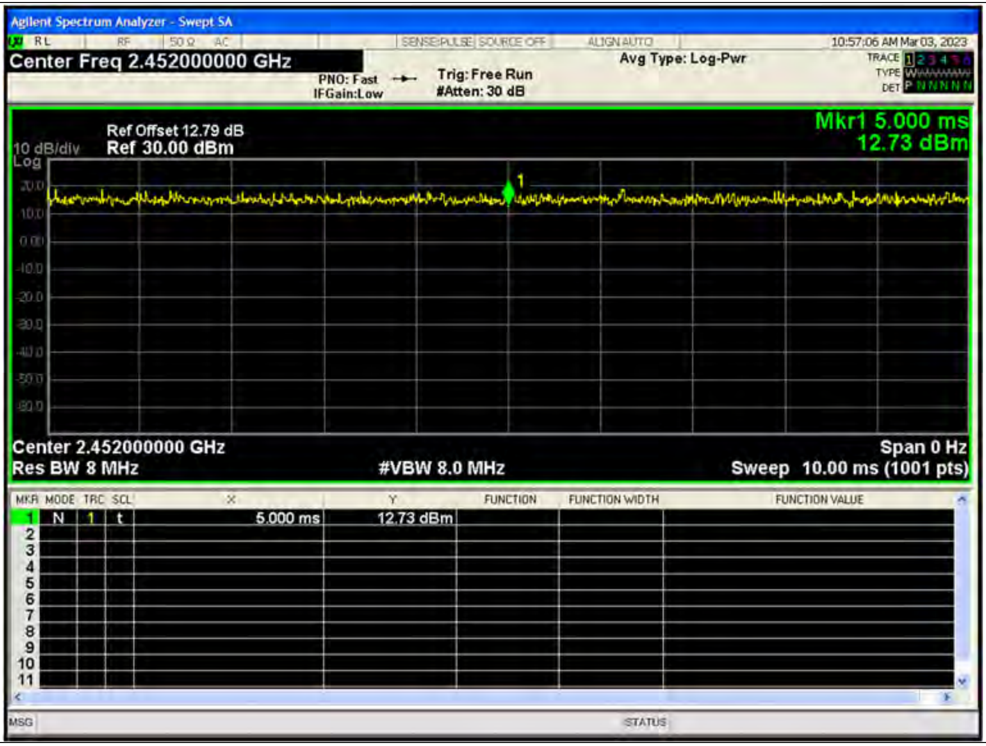

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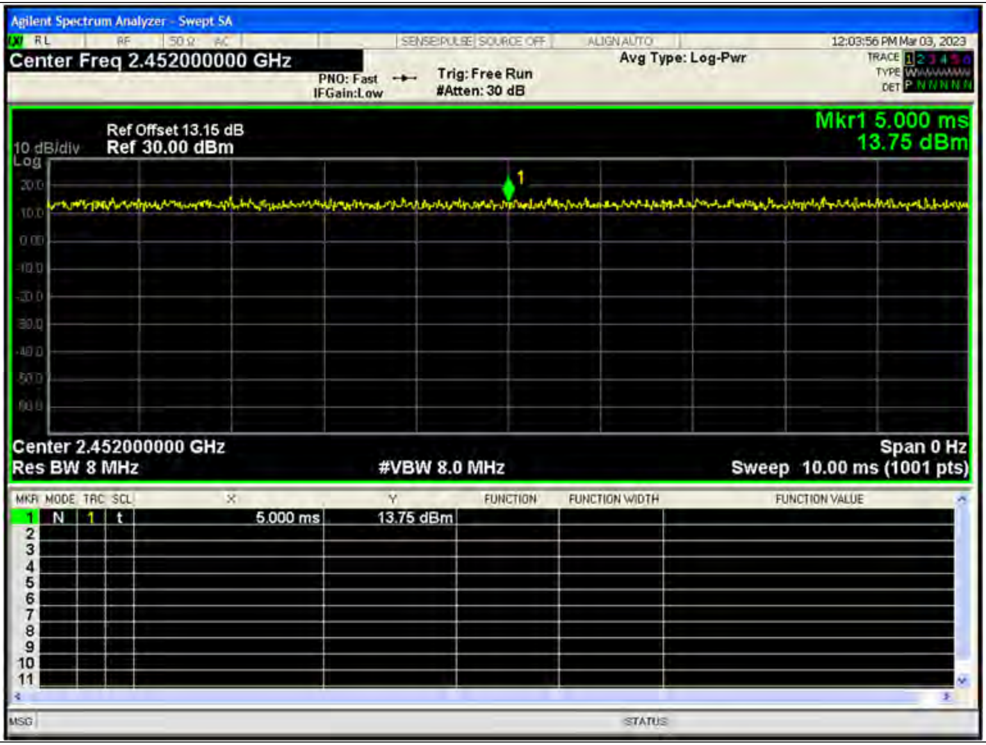
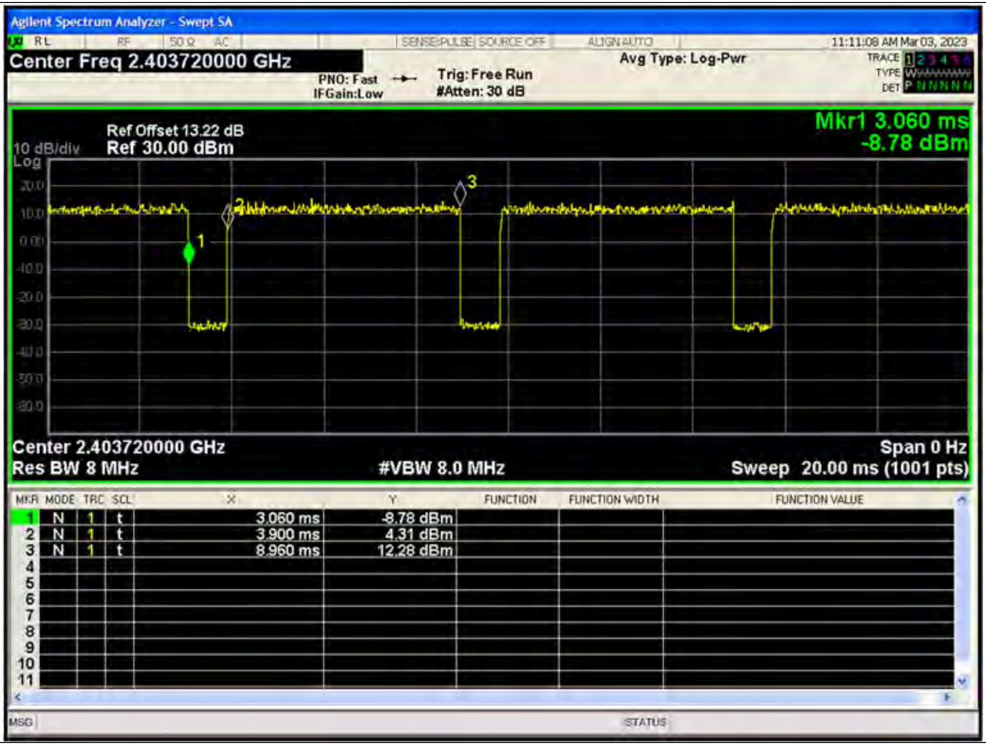
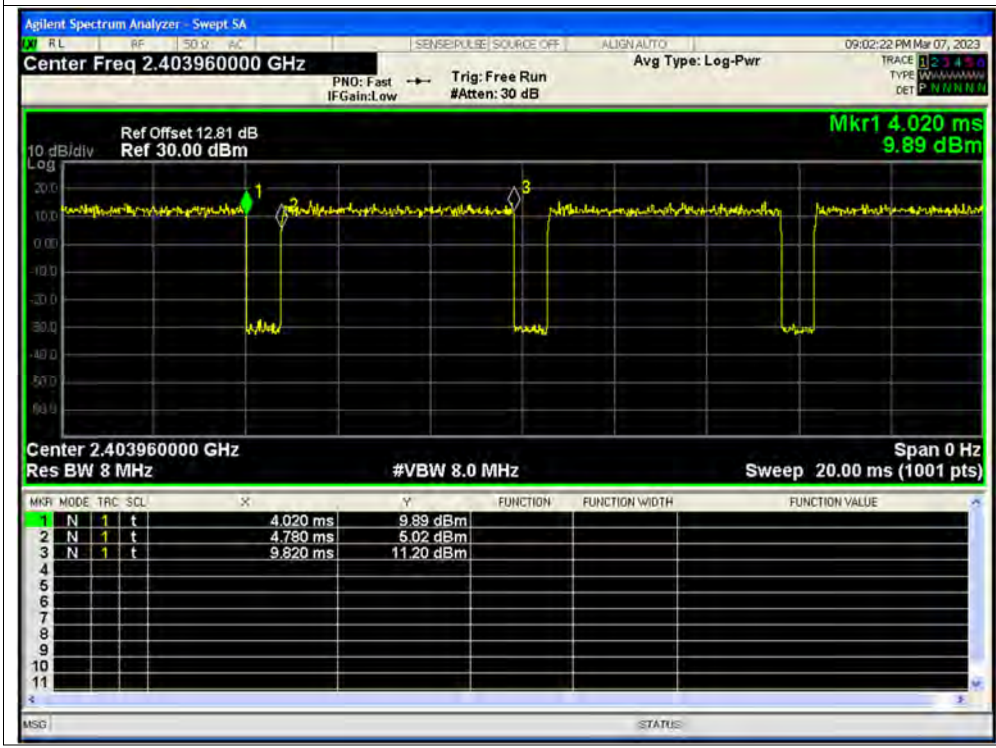


Duty Cycle NVNT ax20 26@8 2412MHz Ant0



Duty Cycle NVNT ax20 26@8 2412MHz Ant3



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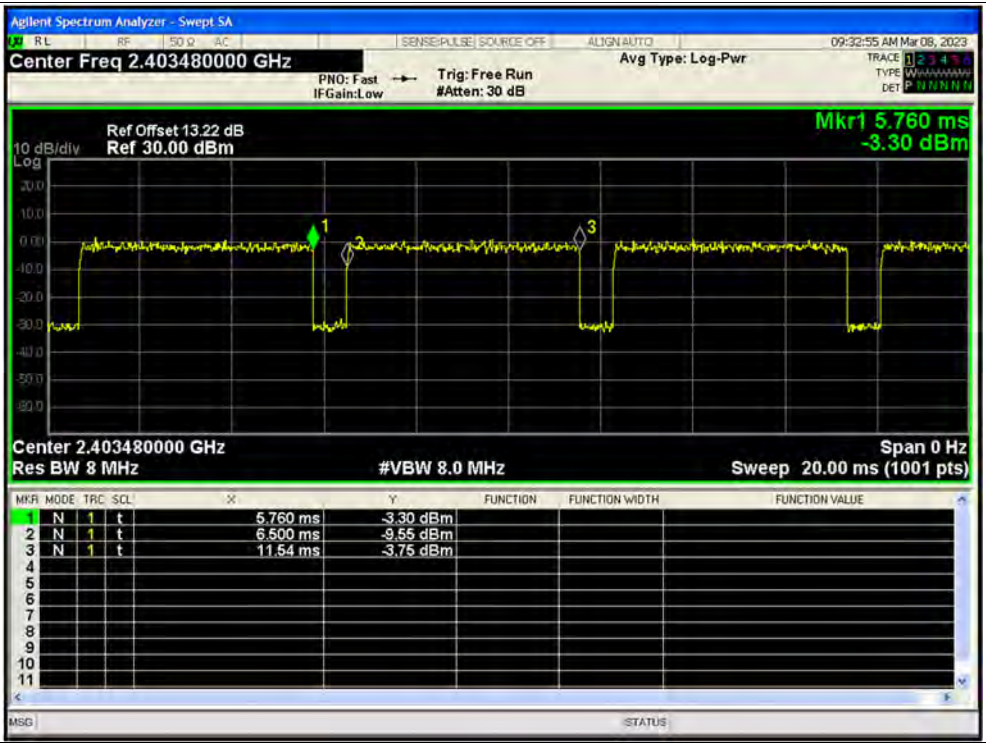
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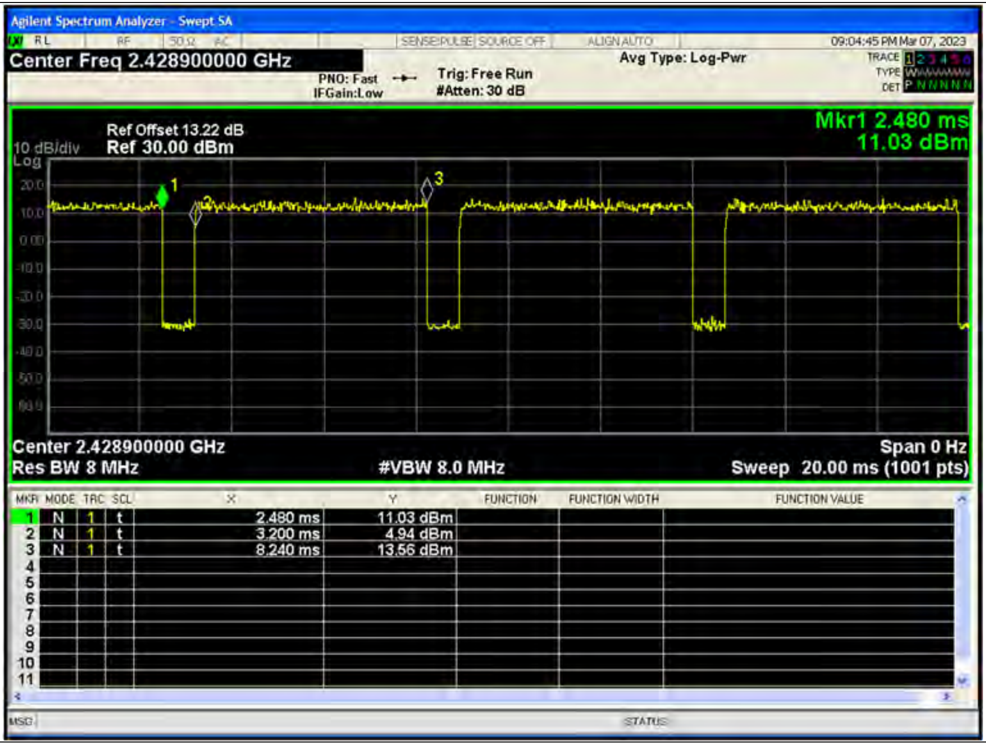

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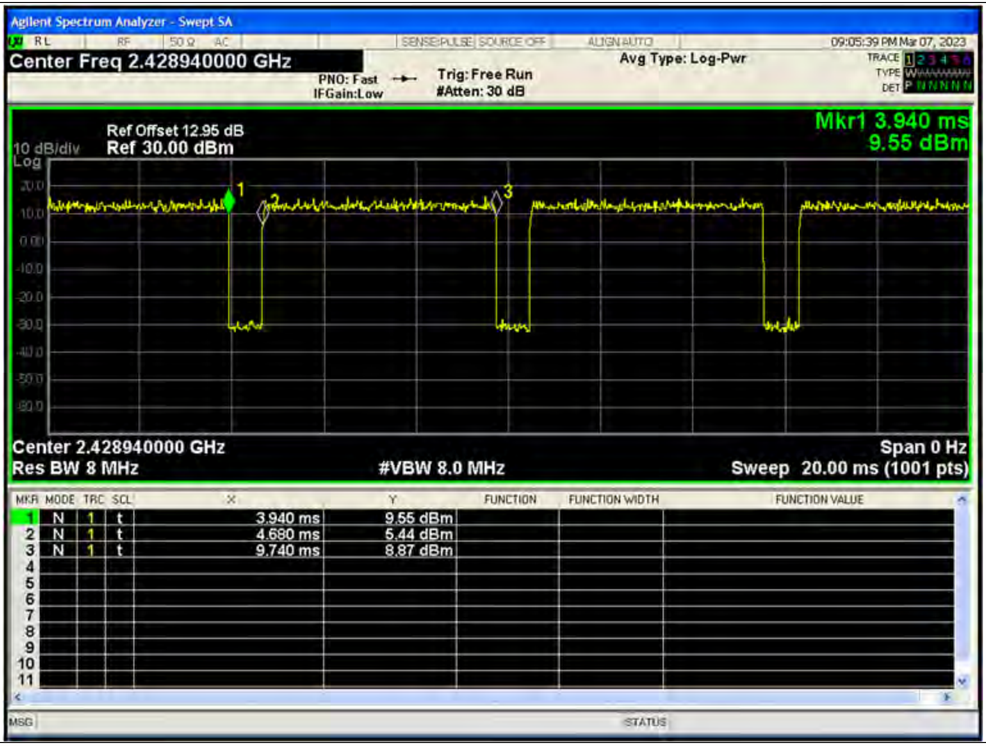

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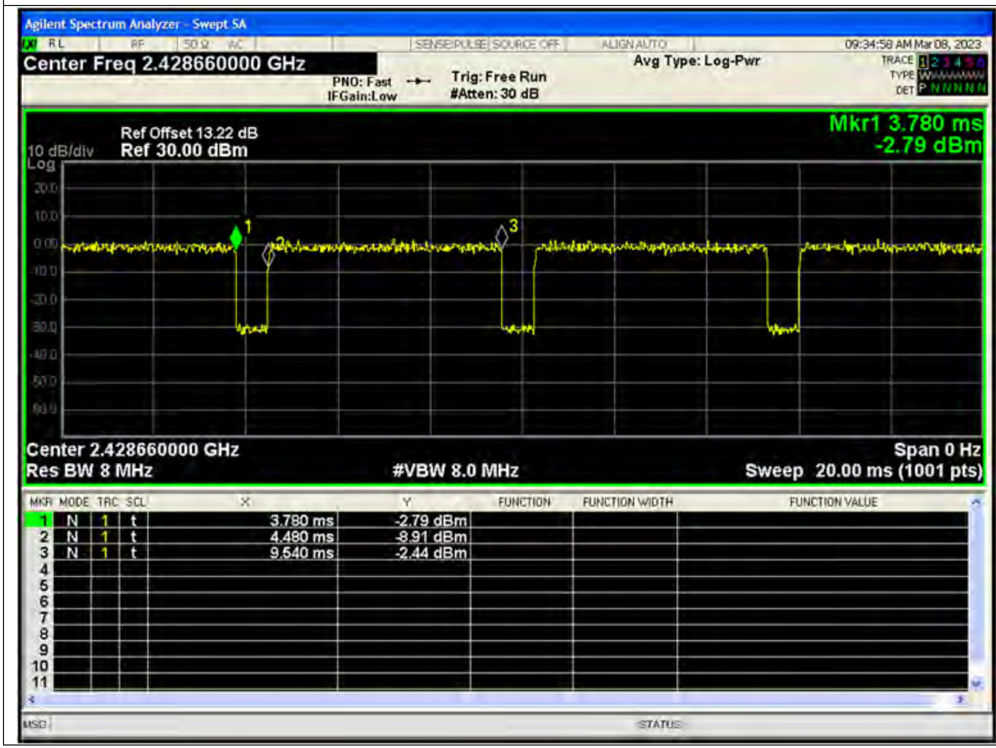

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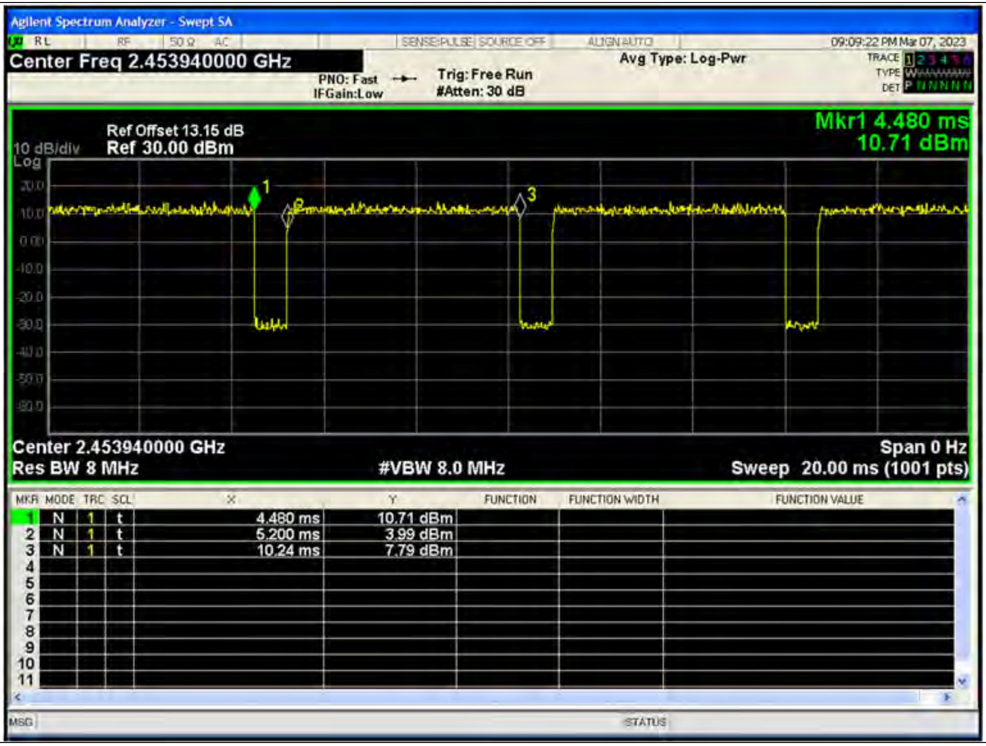
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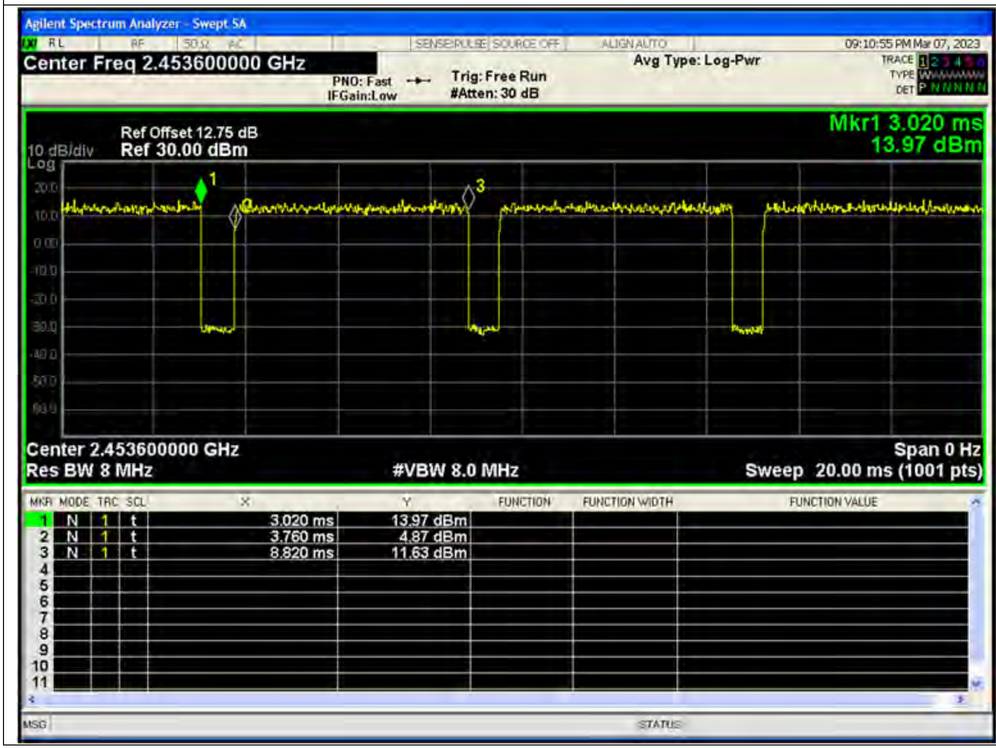

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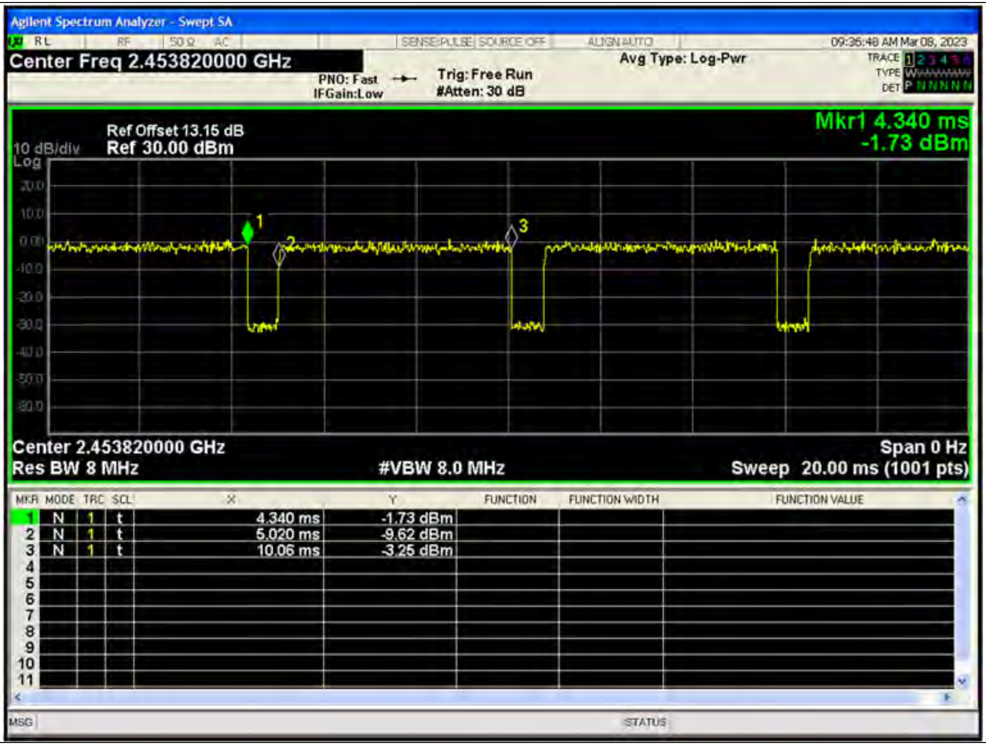

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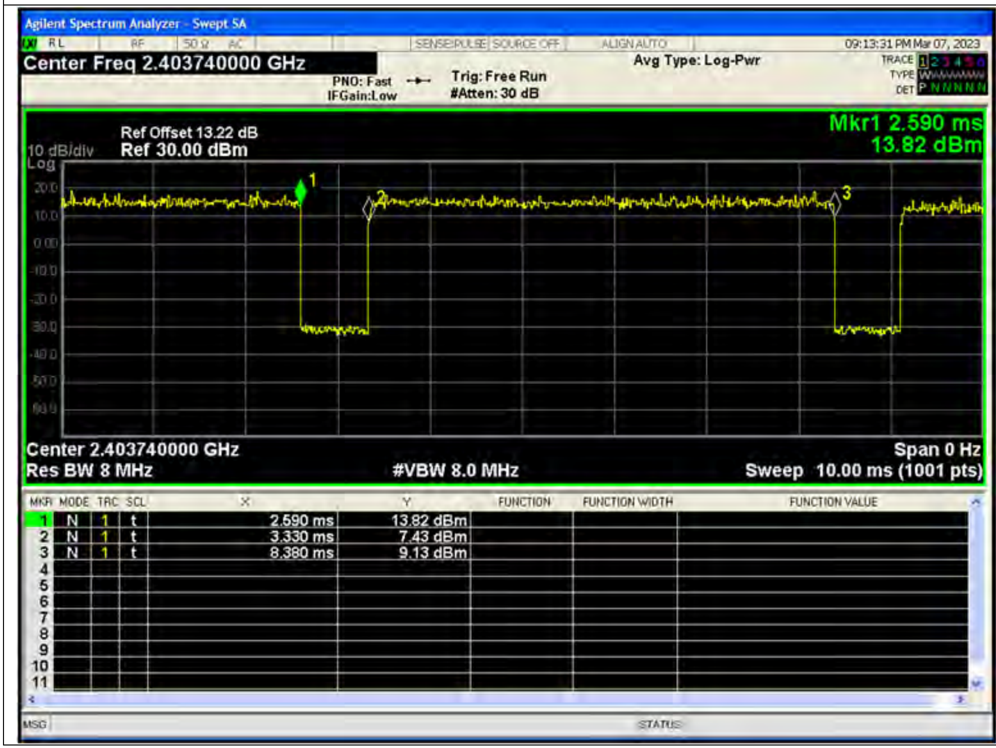

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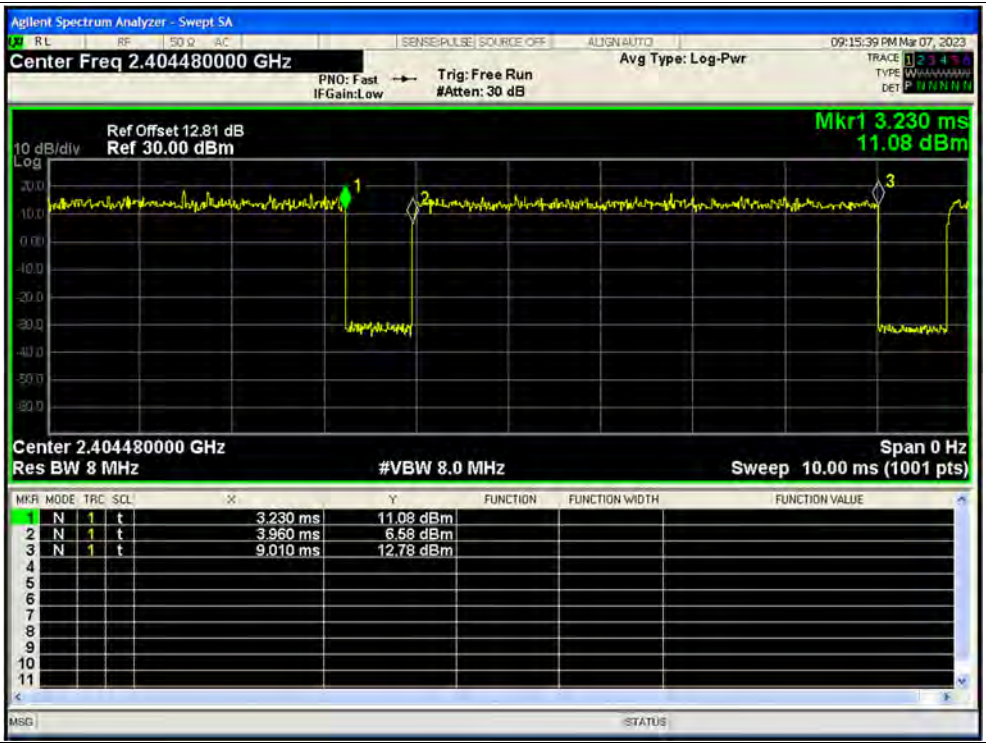

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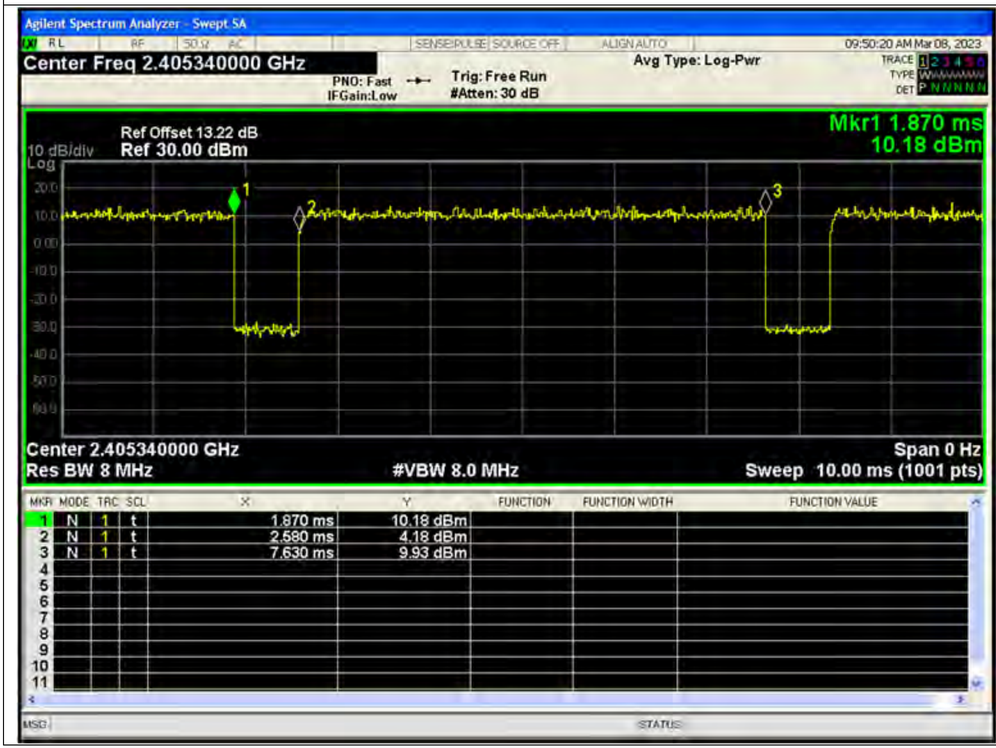

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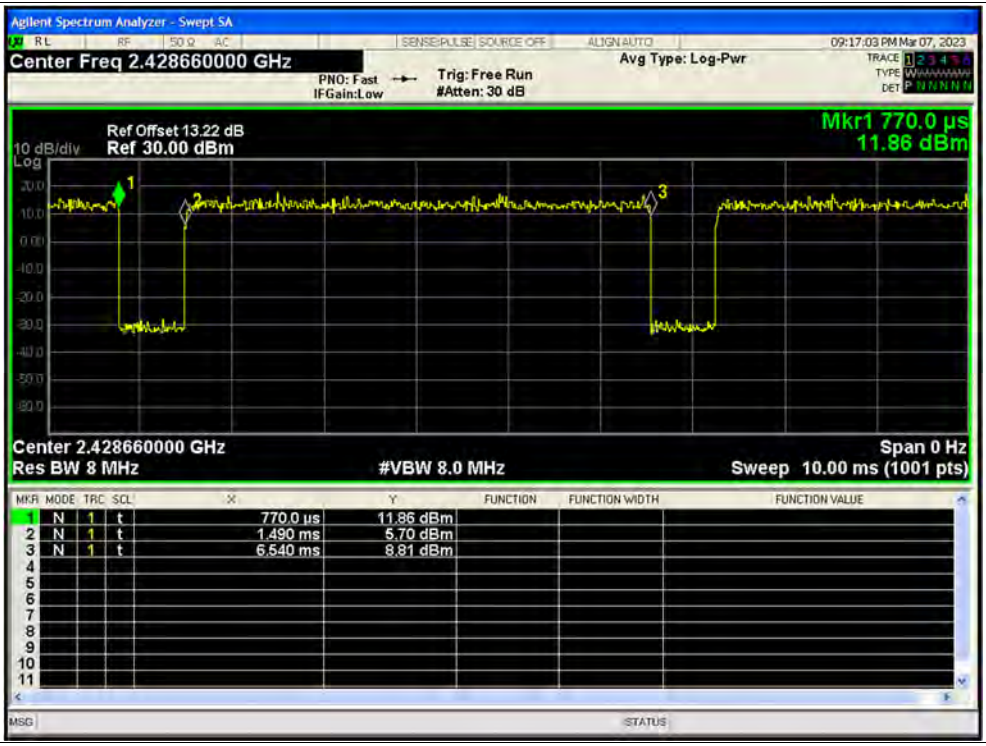
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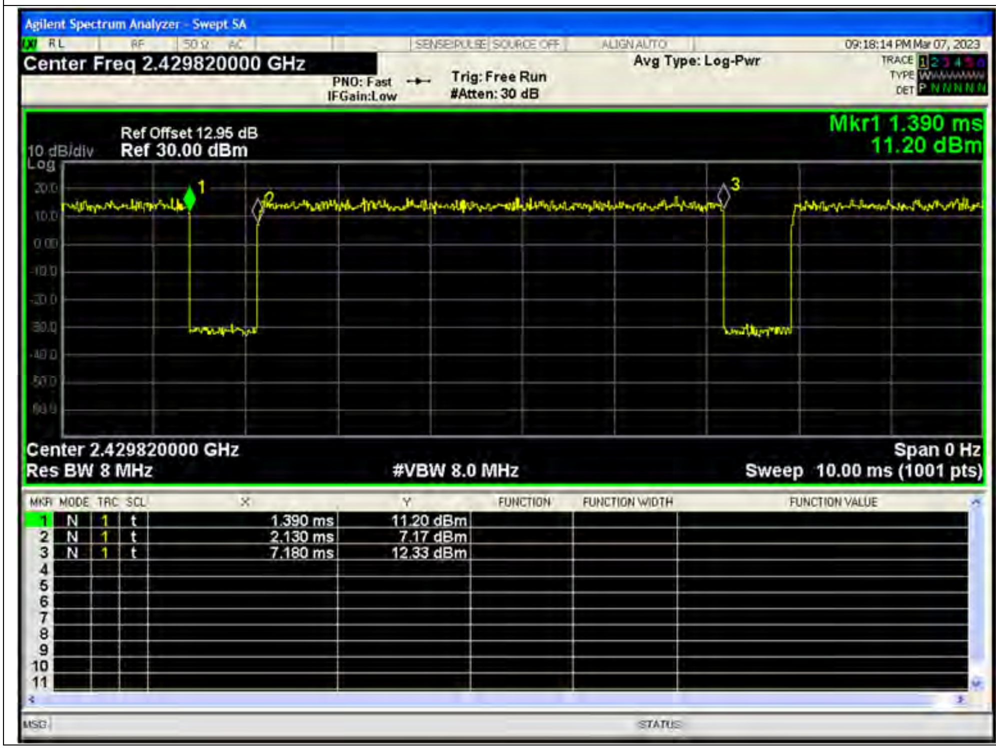

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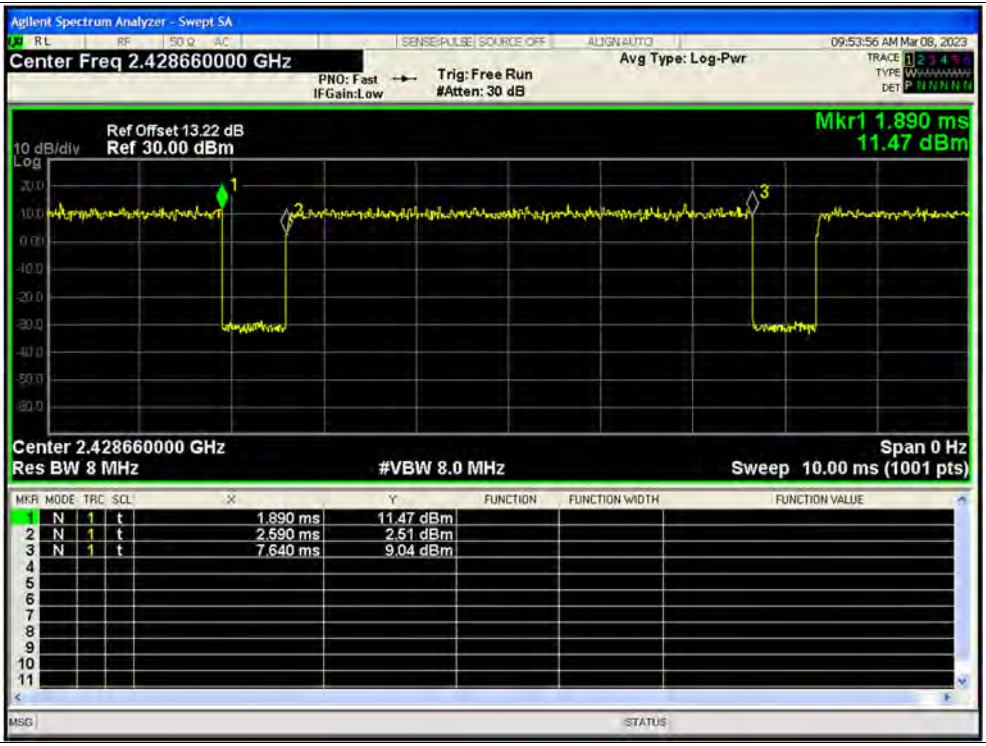
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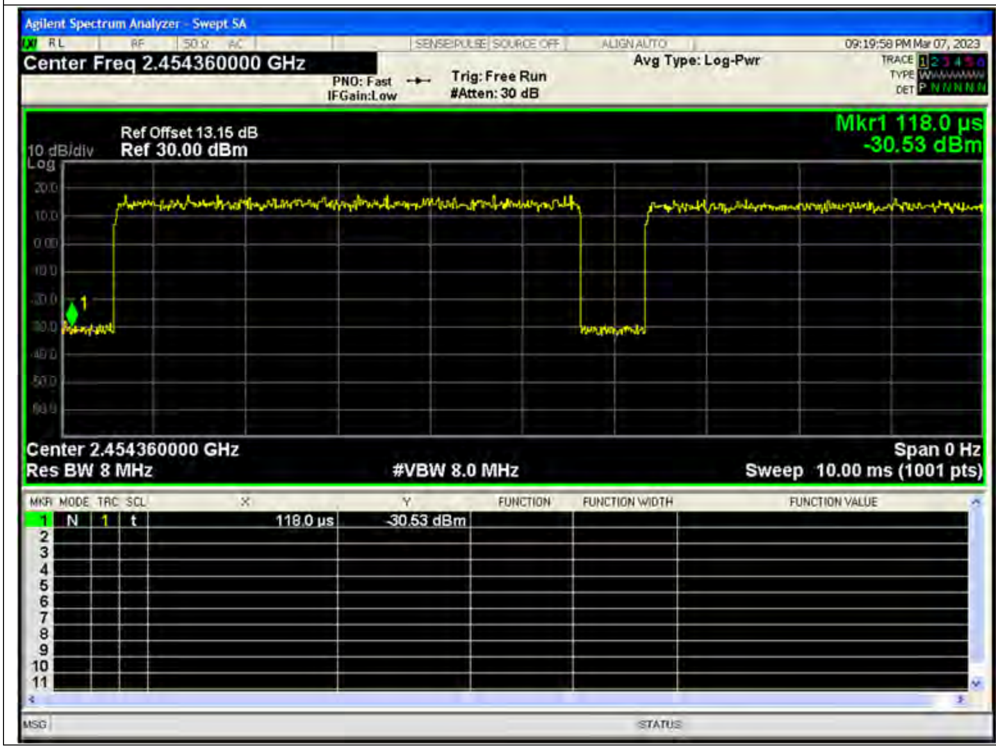

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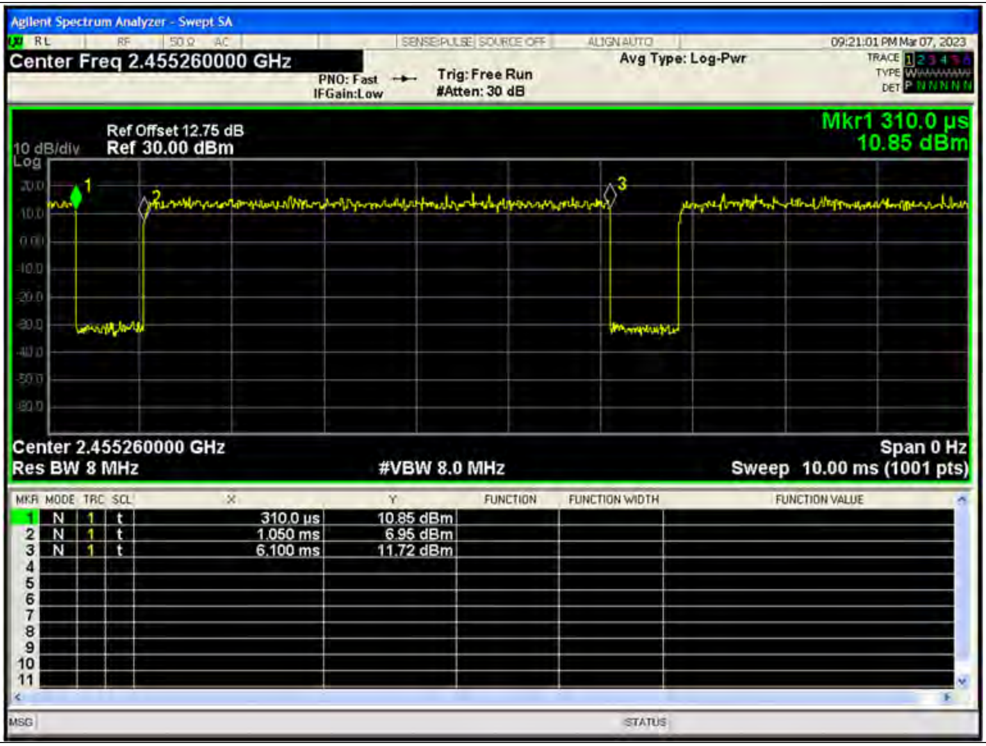

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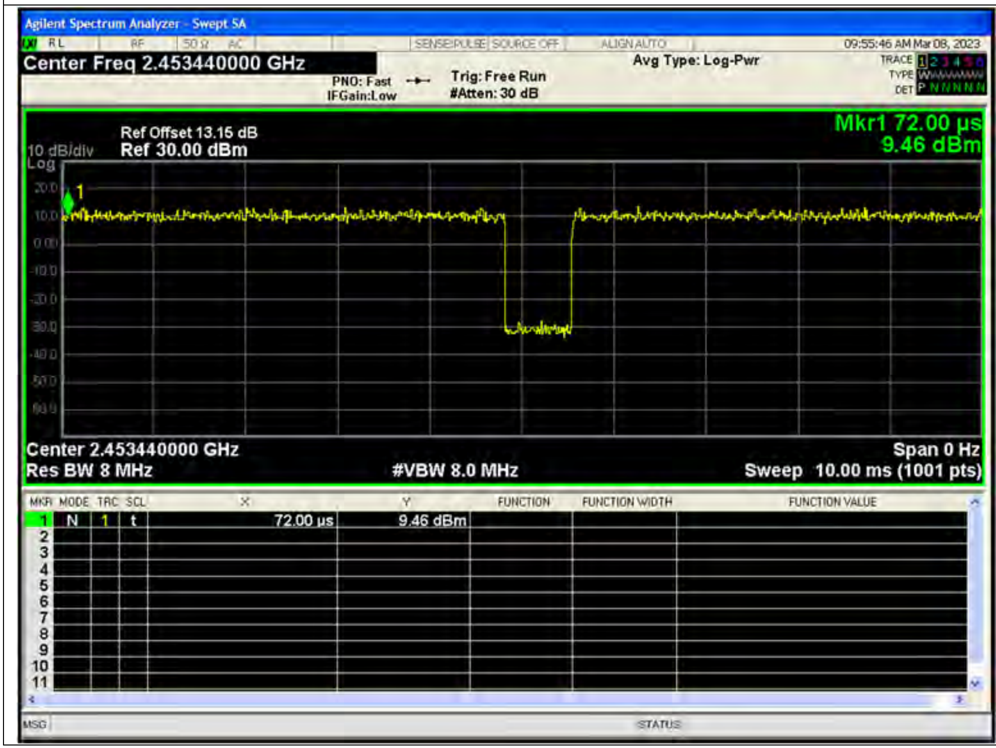
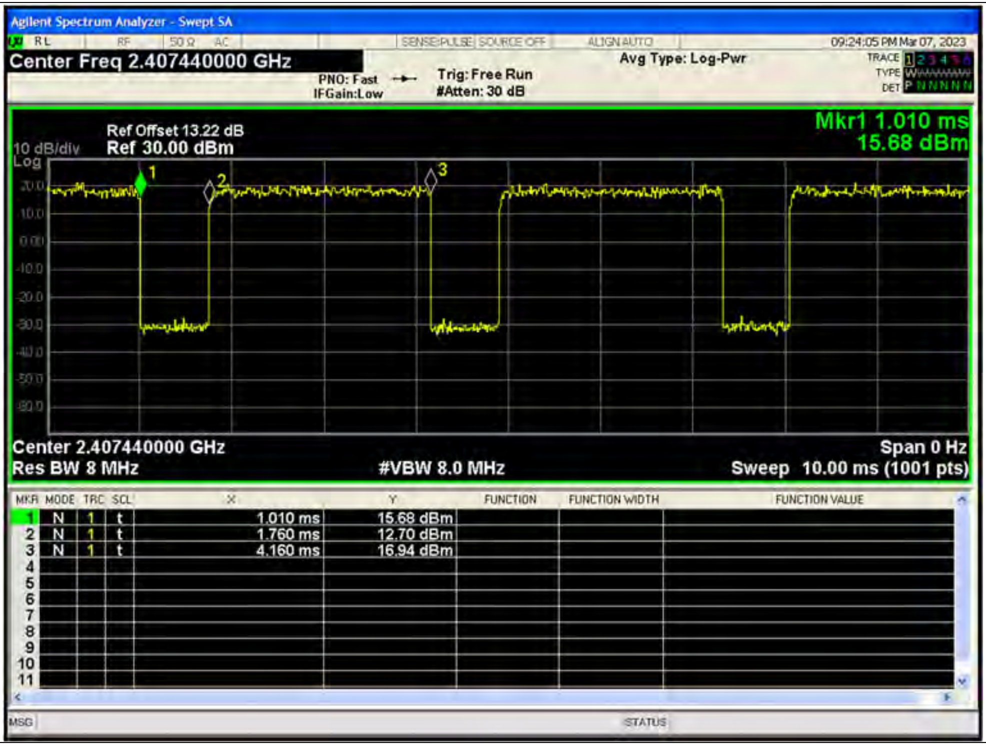
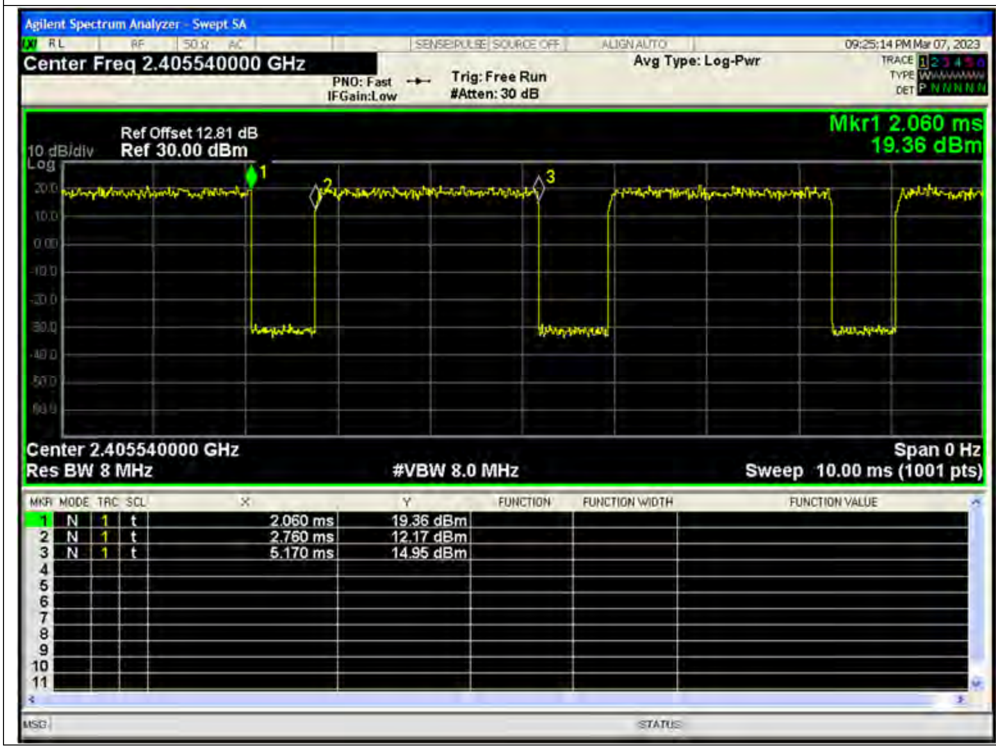


Duty Cycle NVNT ax20 106@53 2412MHz Ant0



Duty Cycle NVNT ax20 106@53 2412MHz Ant3



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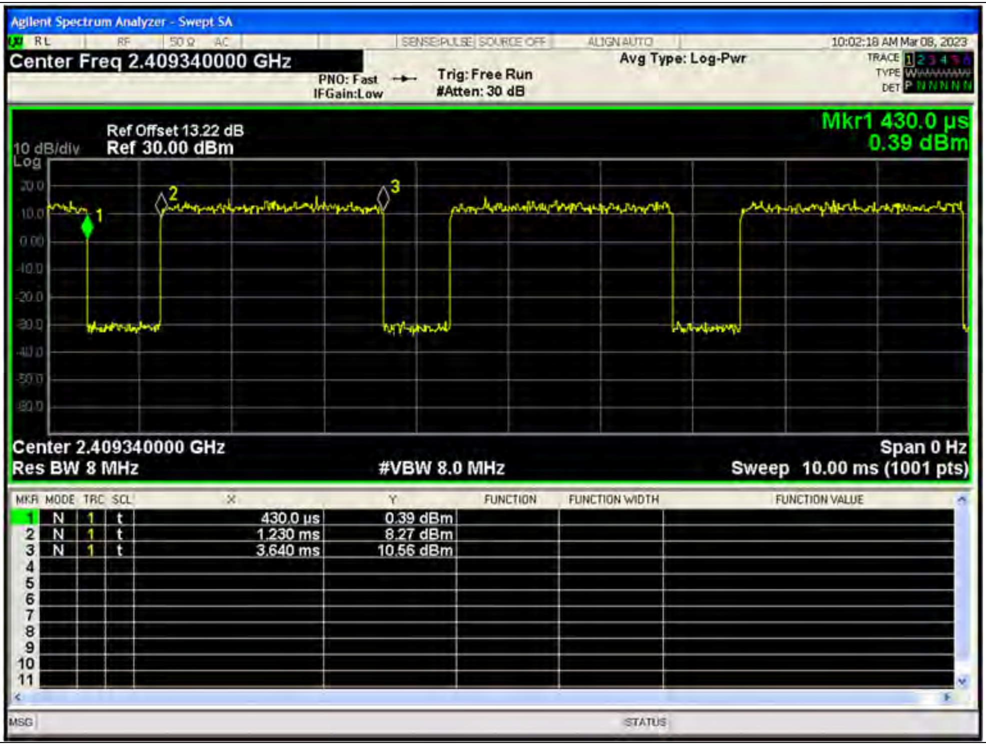

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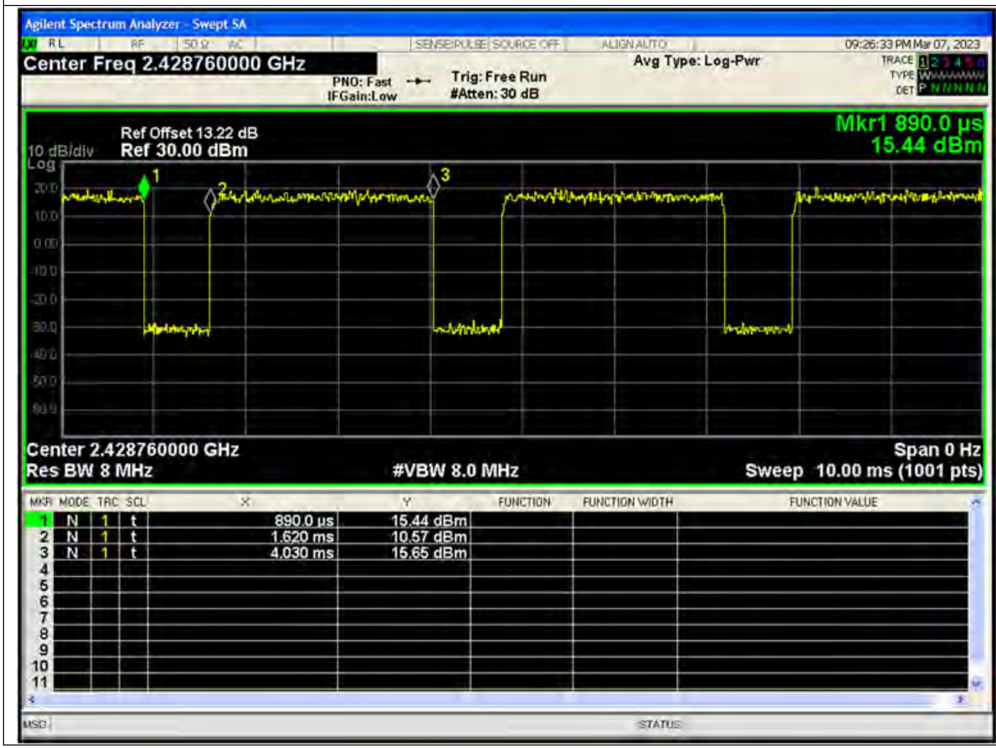

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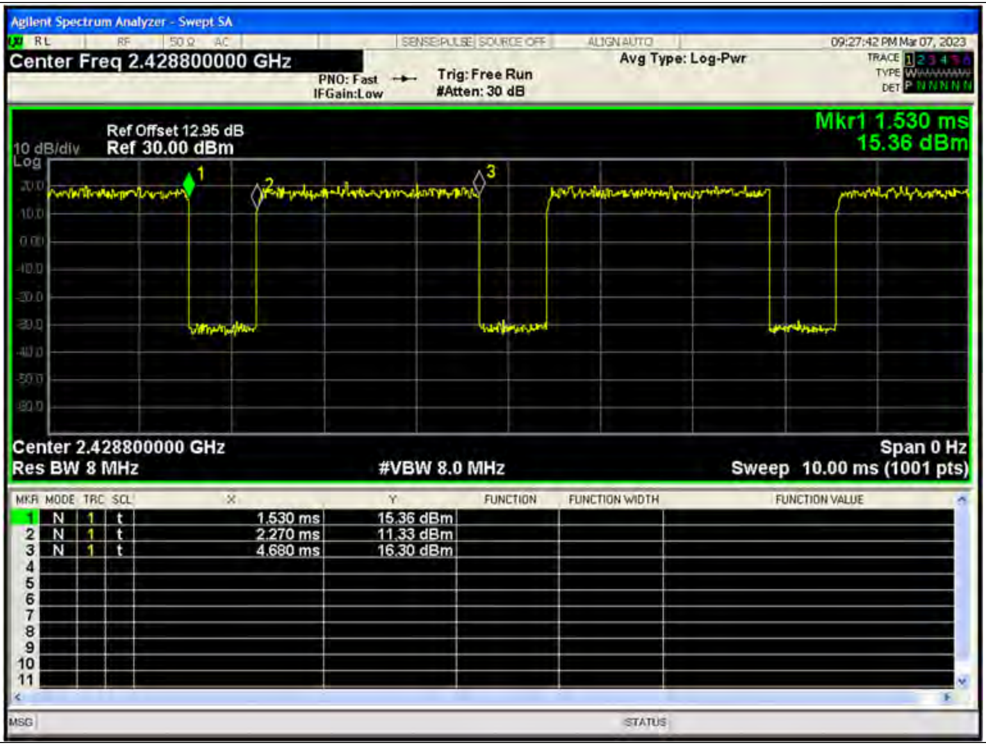
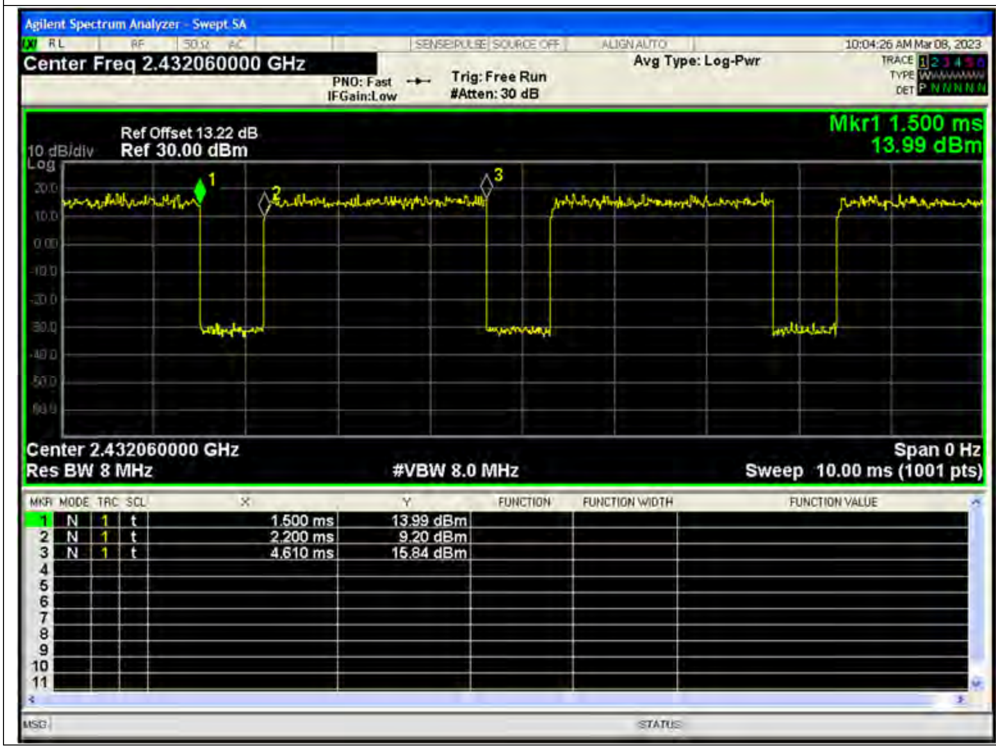


Duty Cycle NVNT ax20 106@53 2437MHz Sum



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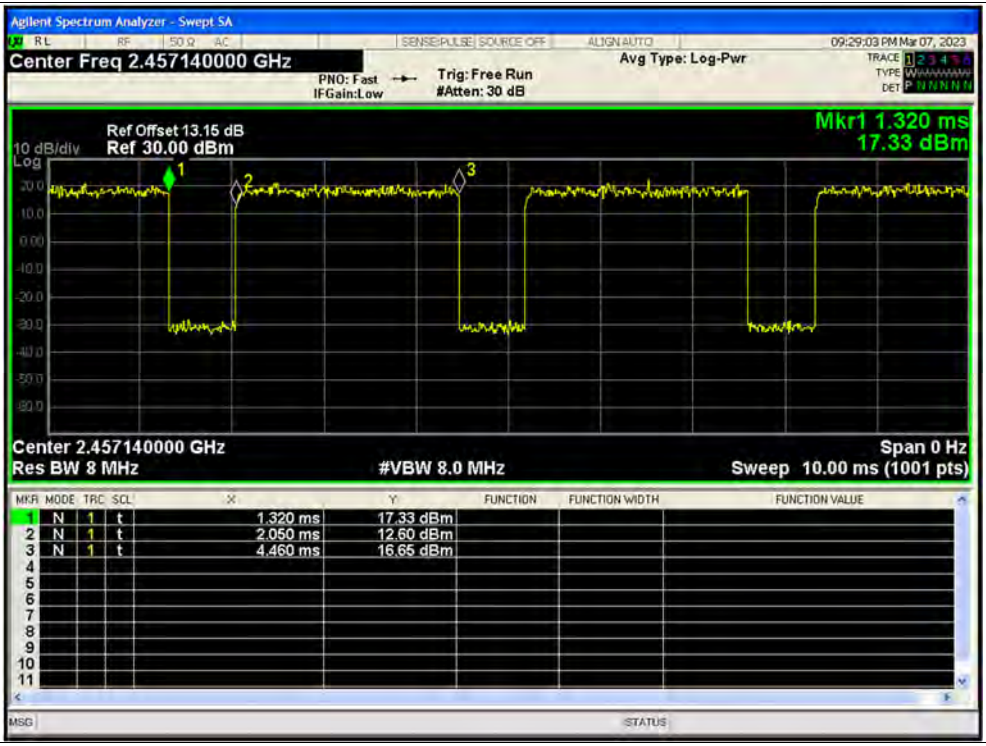

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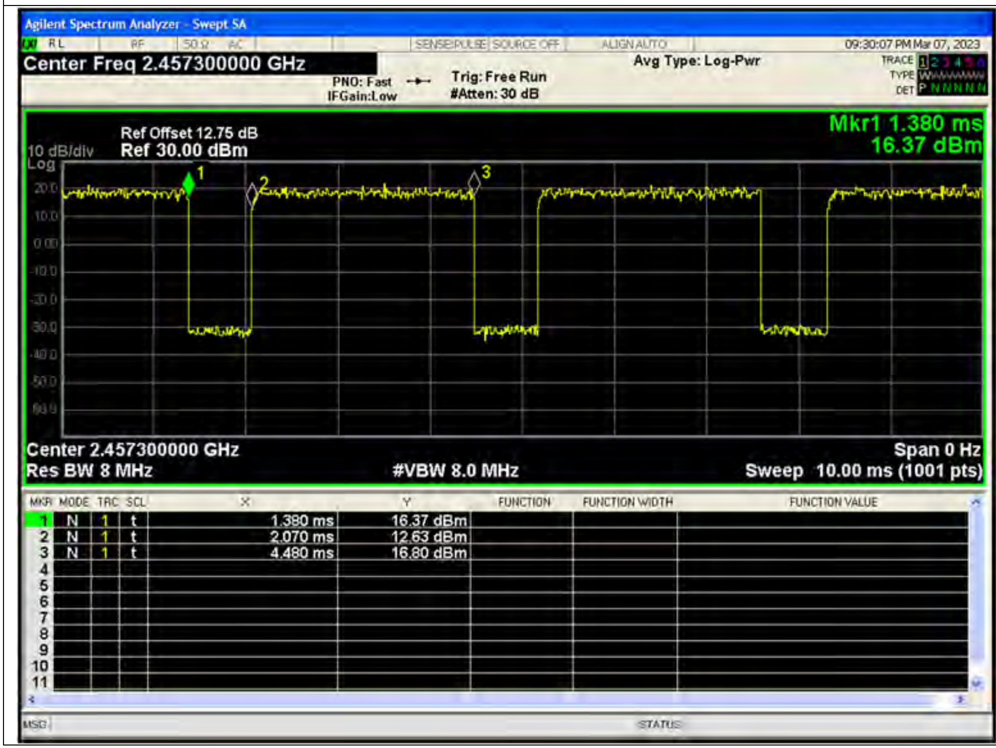
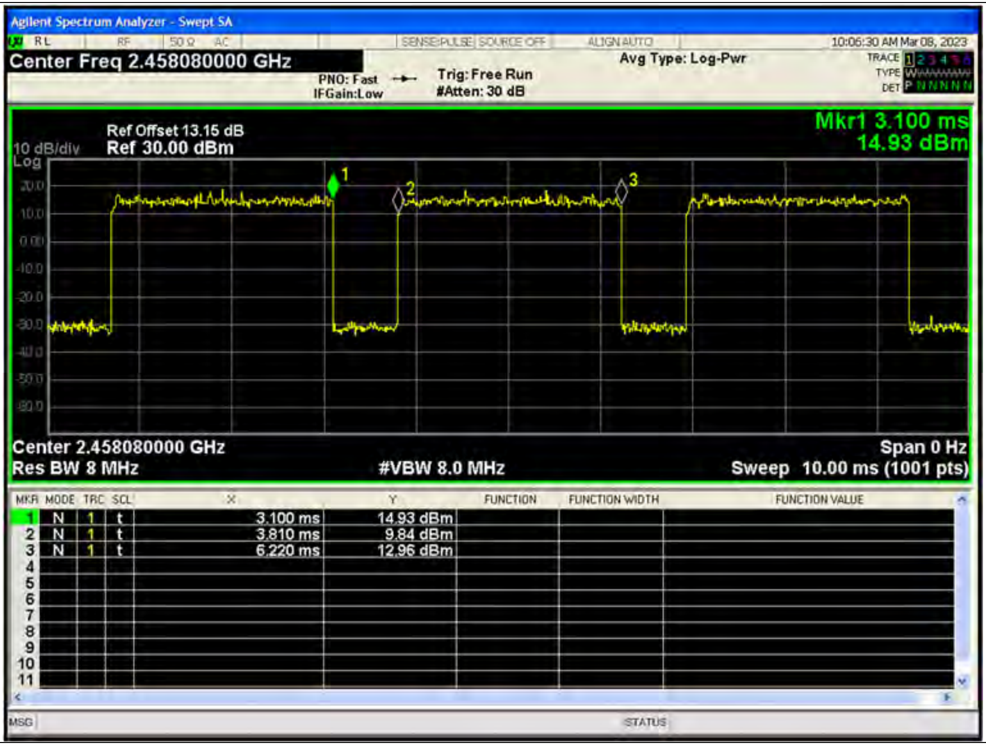
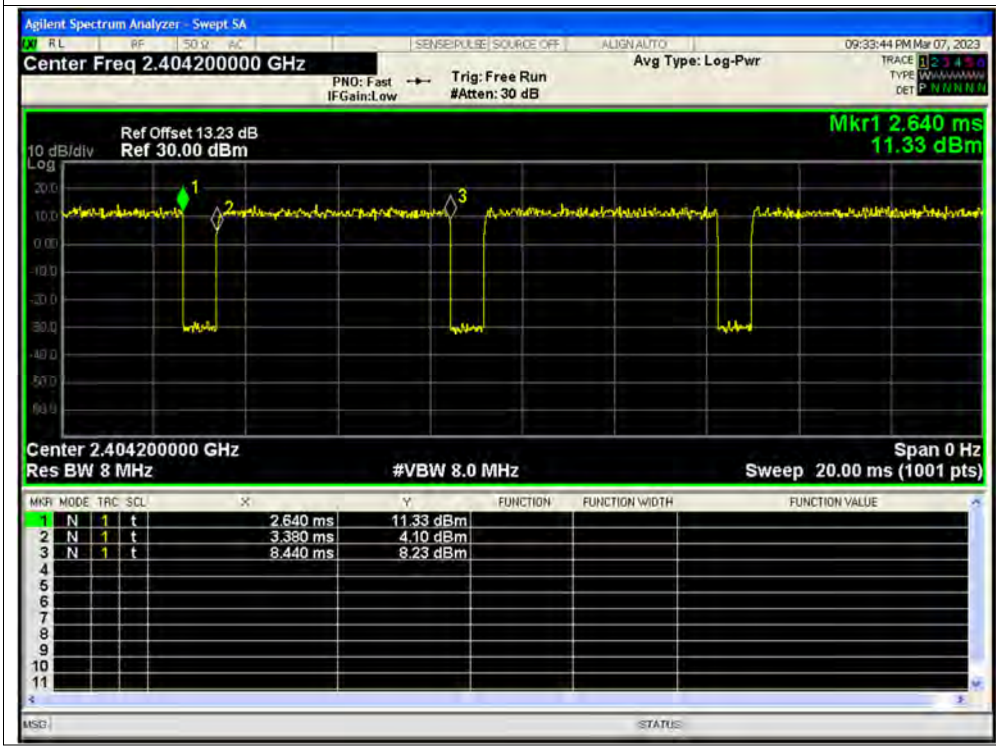


Duty Cycle NVNT ax20 106@53 2462MHz Sum

Duty Cycle NVNT ax40 26@0 2422MHz Ant0


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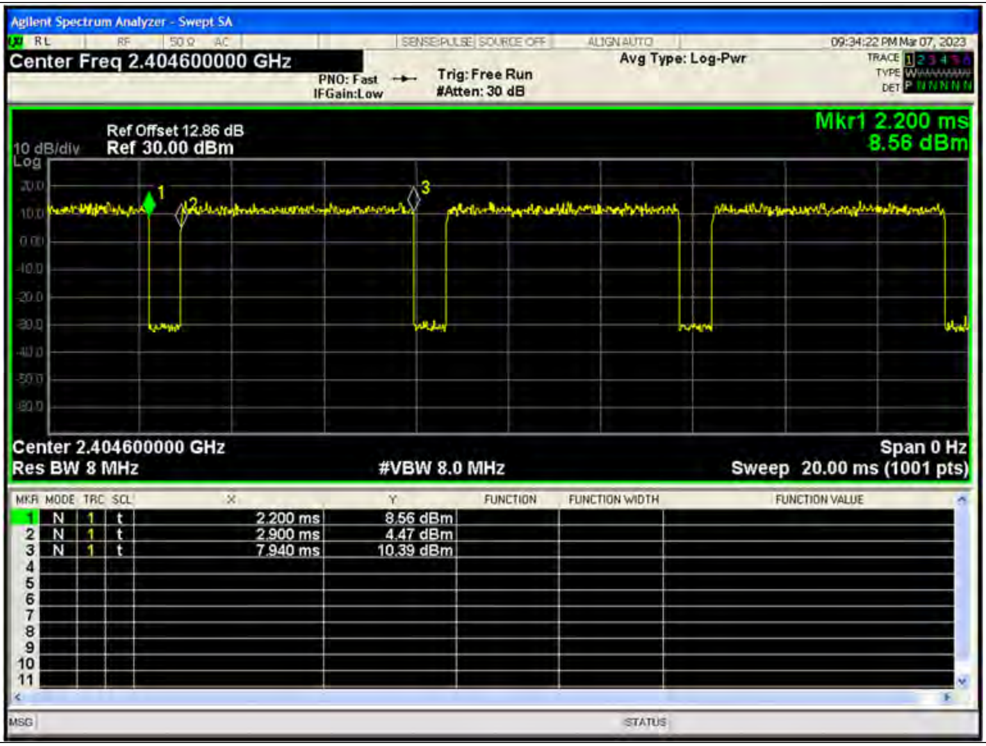

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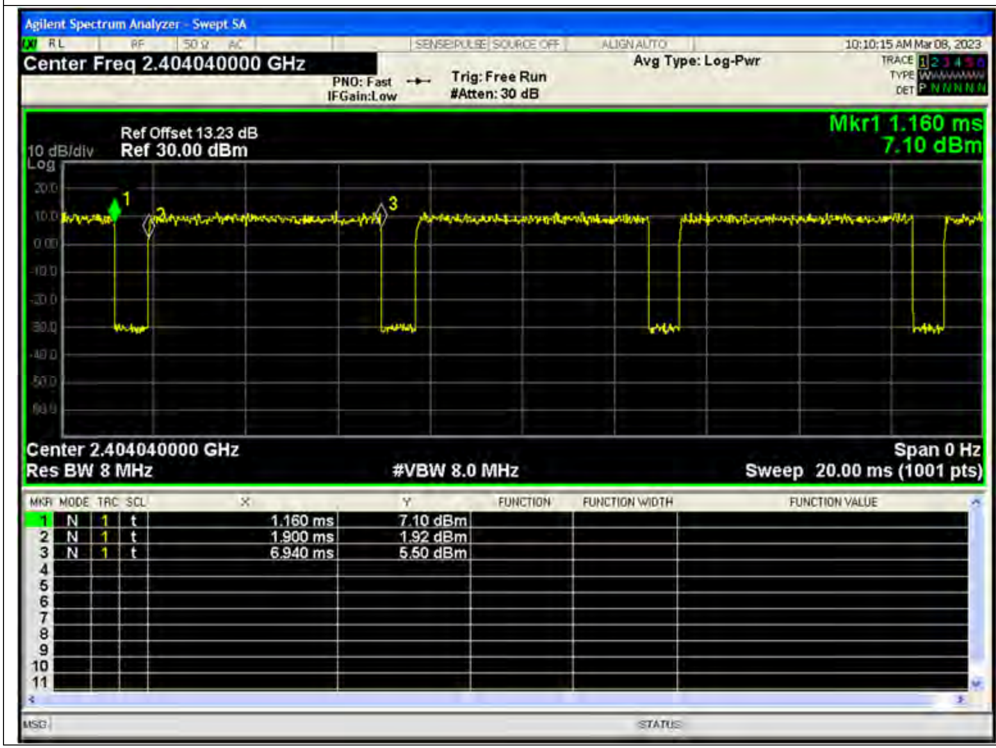

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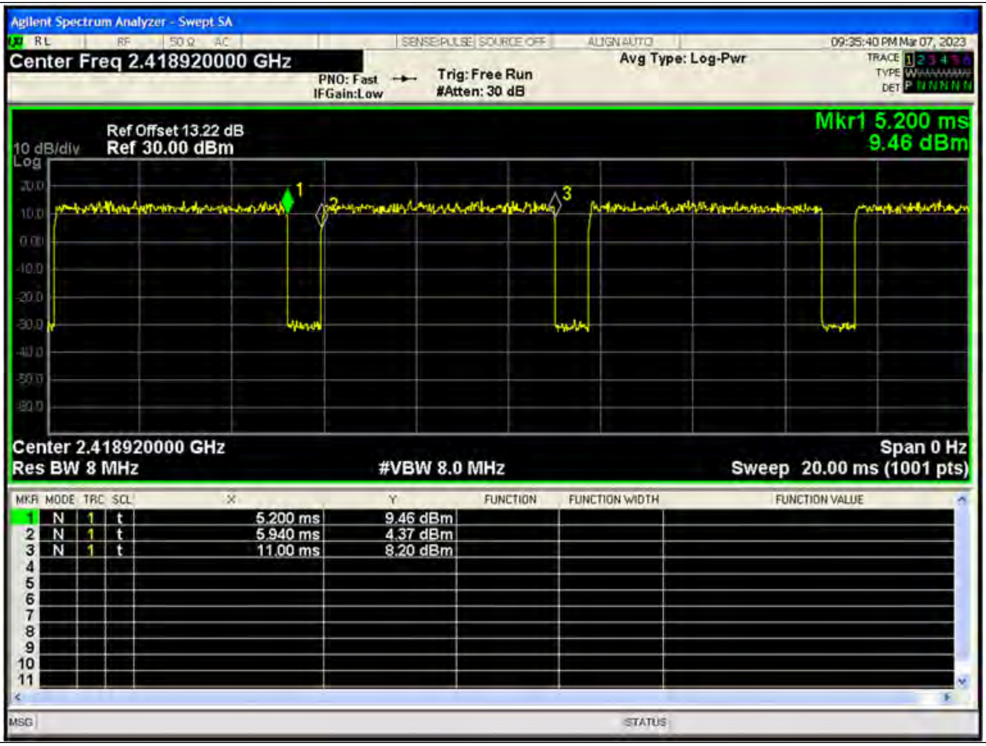

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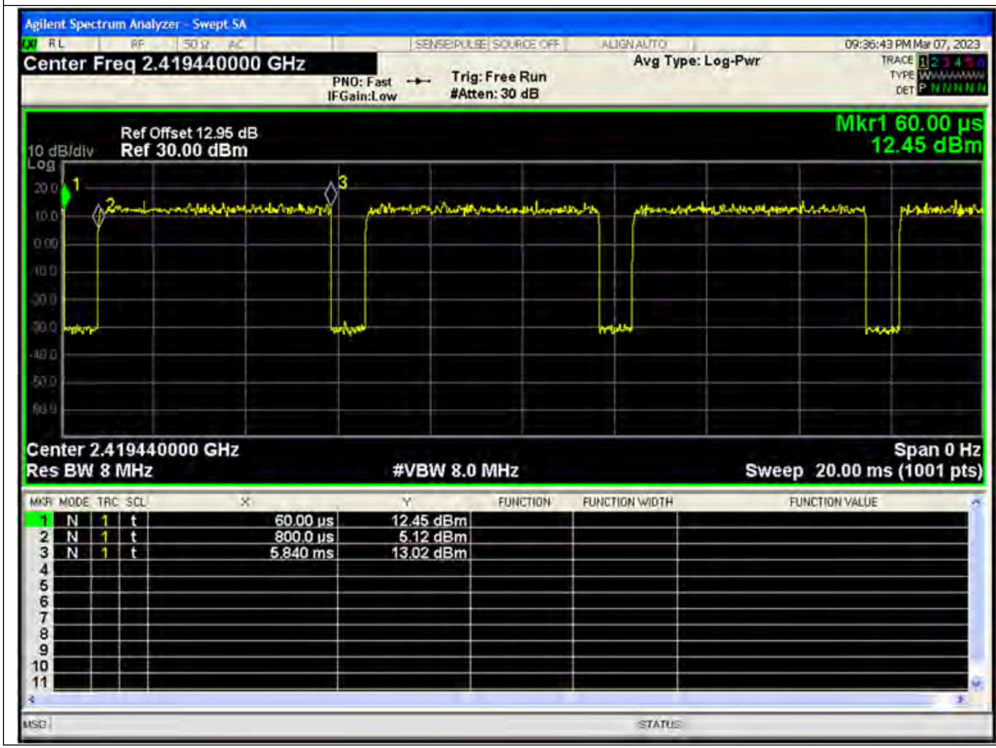

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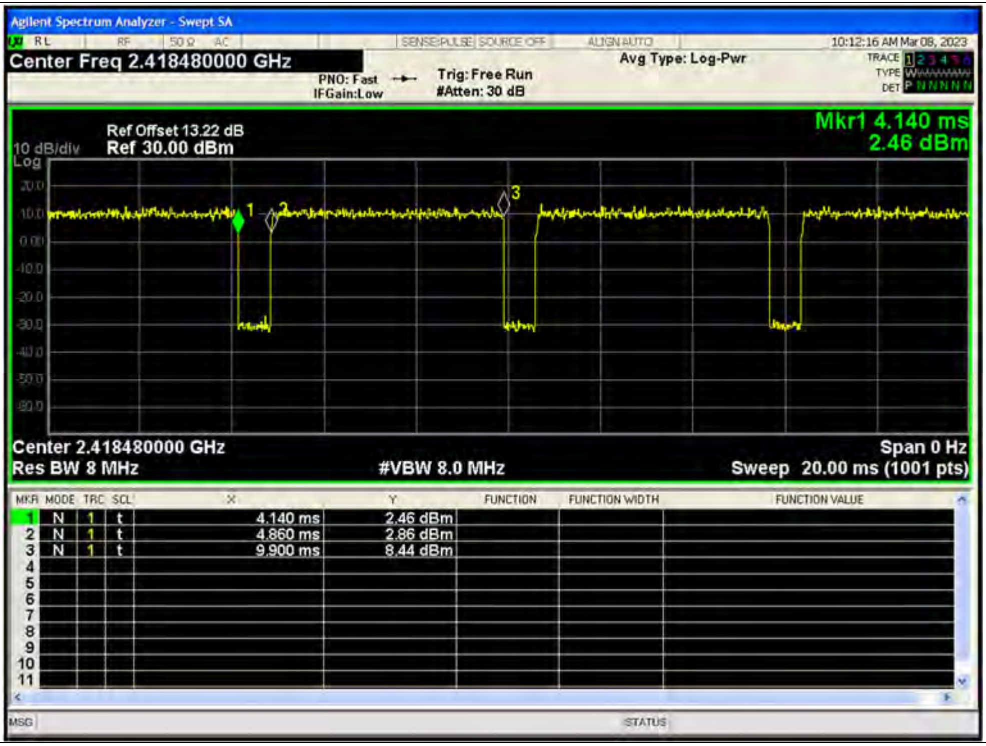

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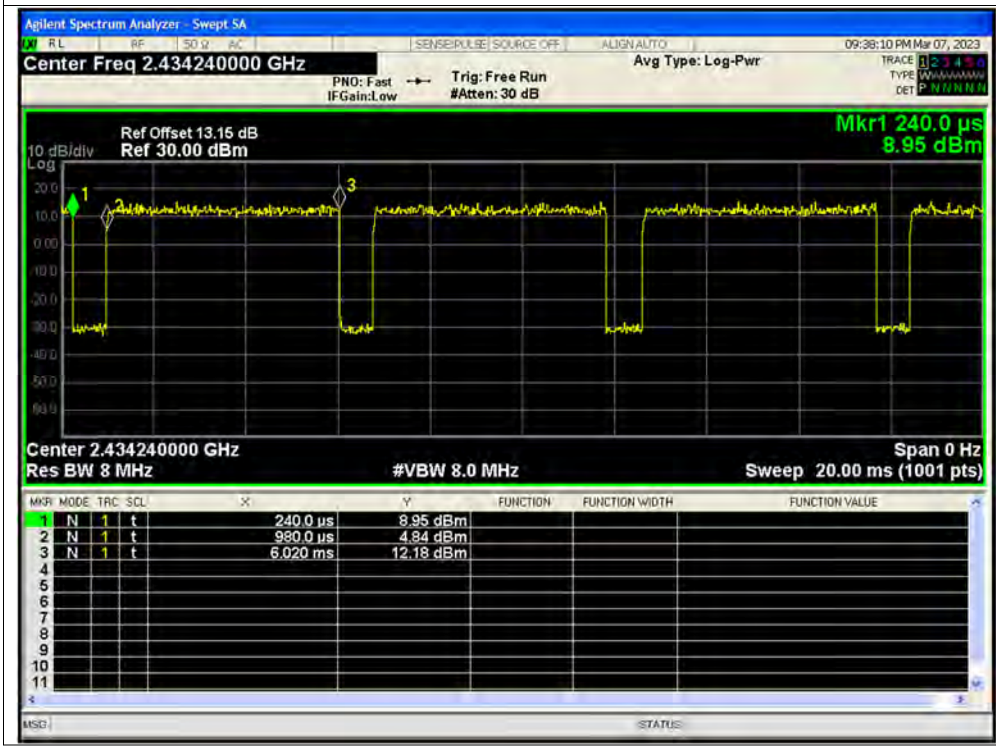

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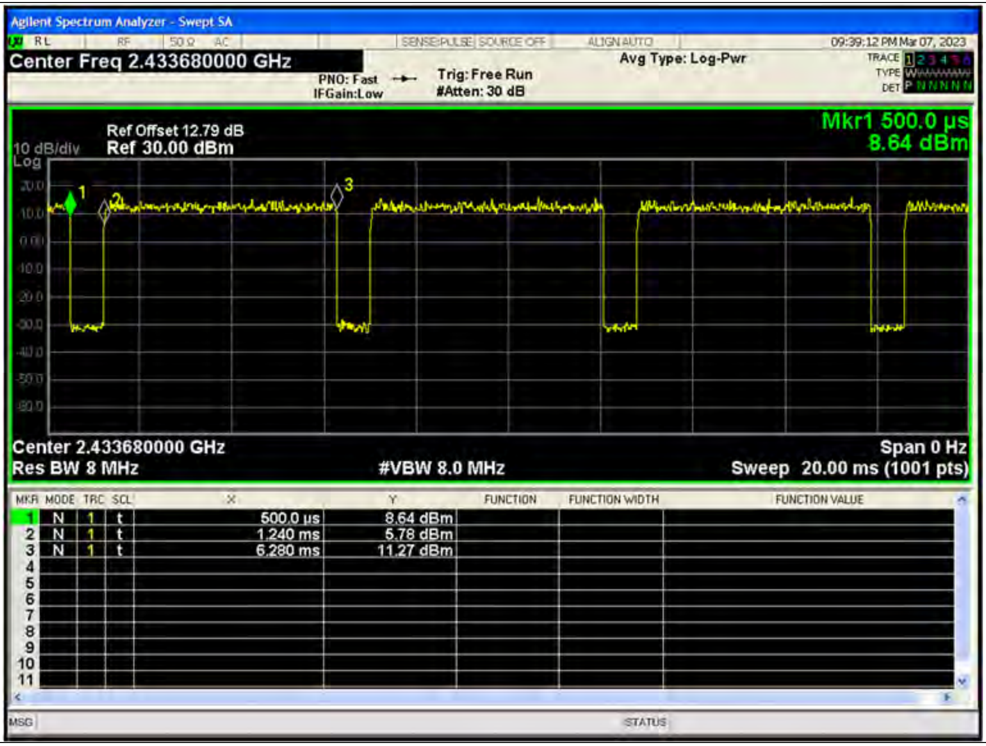
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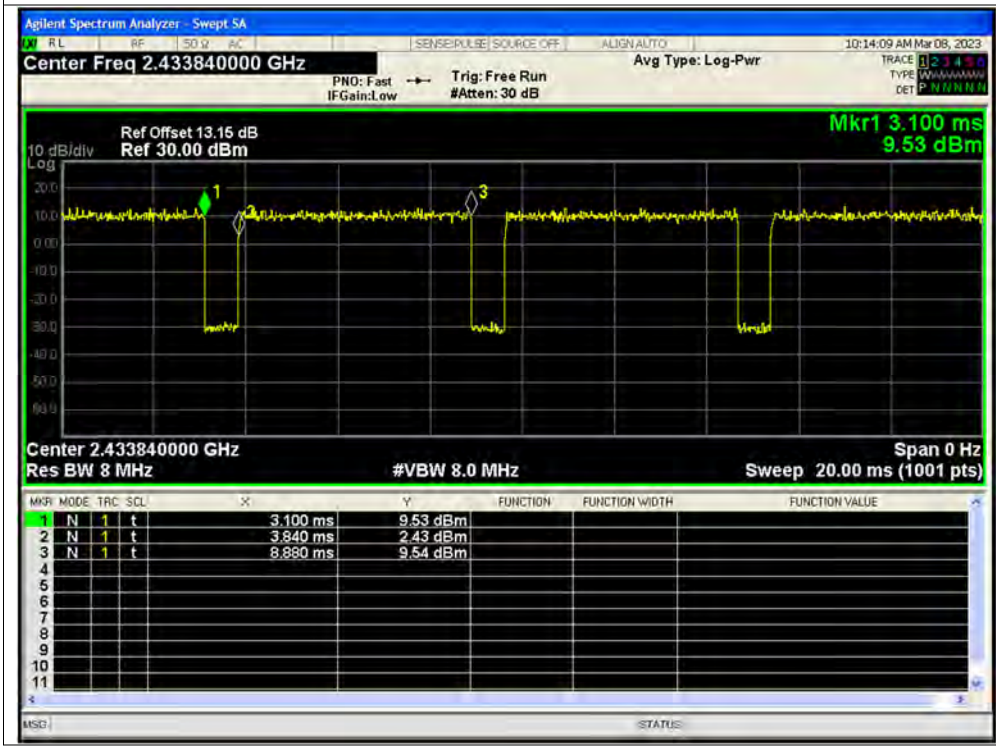

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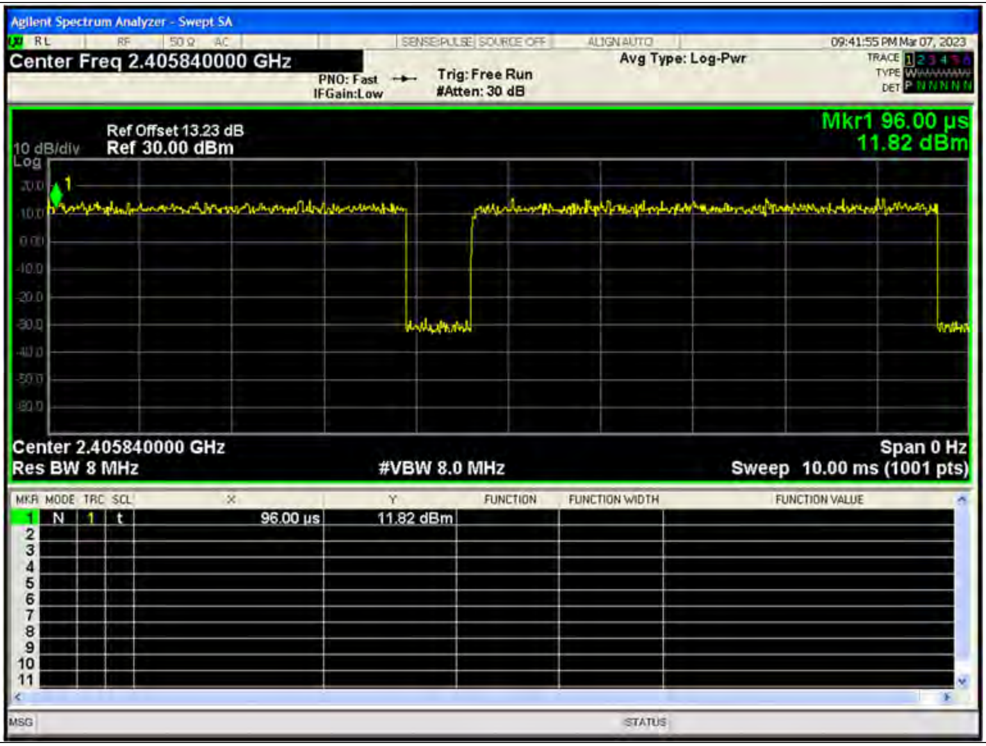
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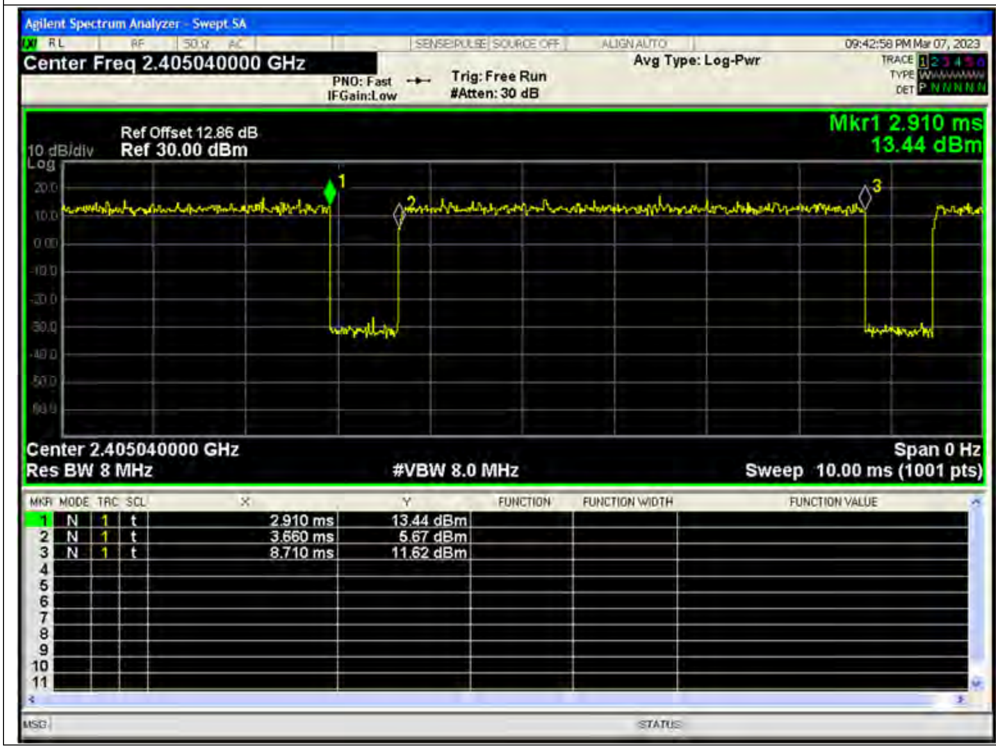

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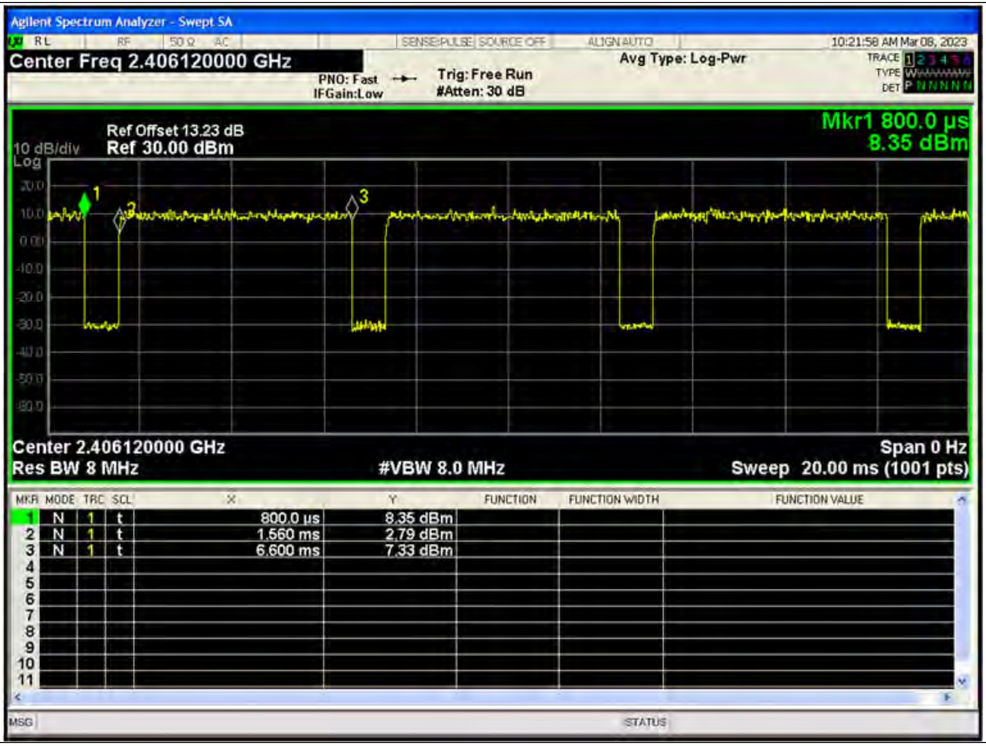

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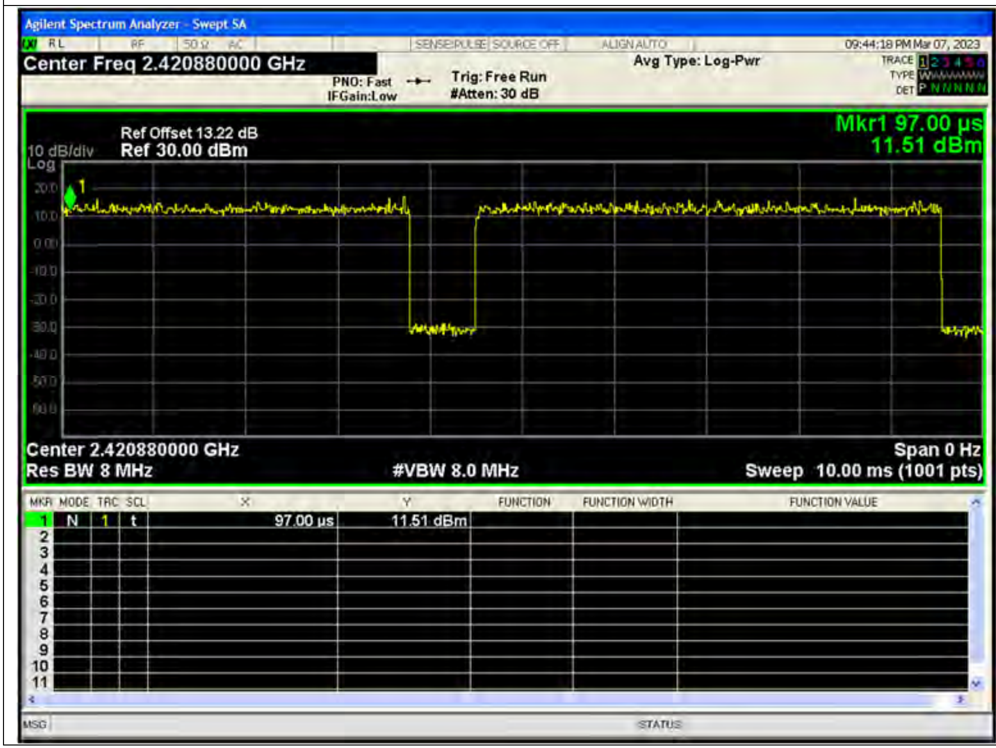

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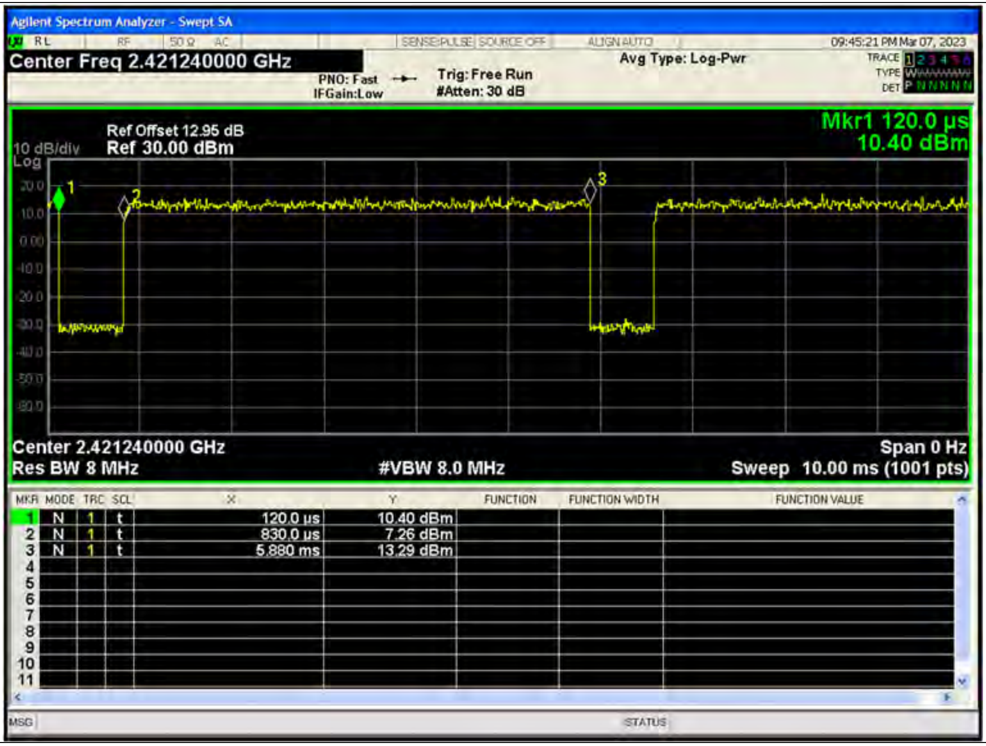
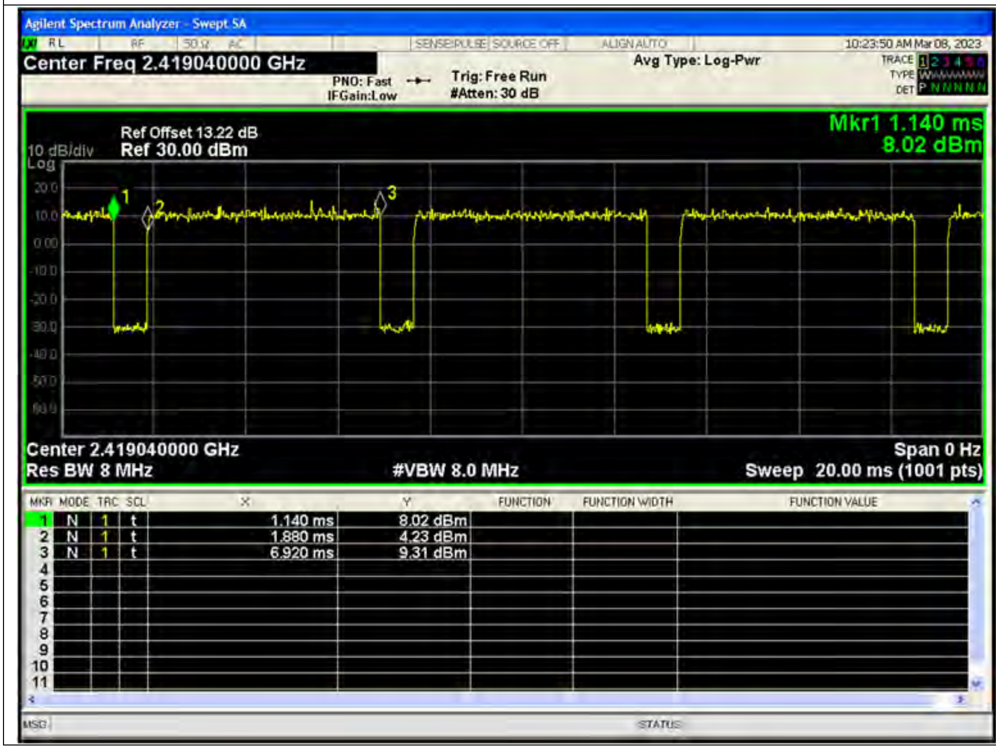
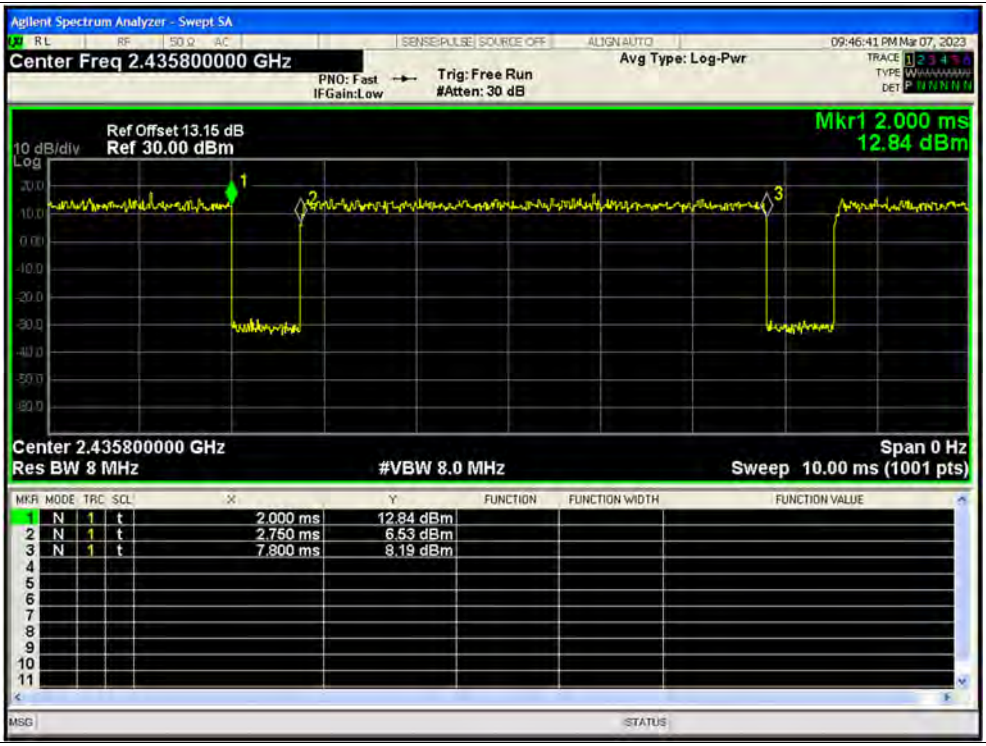


Duty Cycle NVNT ax40 52@37 2437MHz Sum



Duty Cycle NVNT ax40 52@37 2452MHz Ant0

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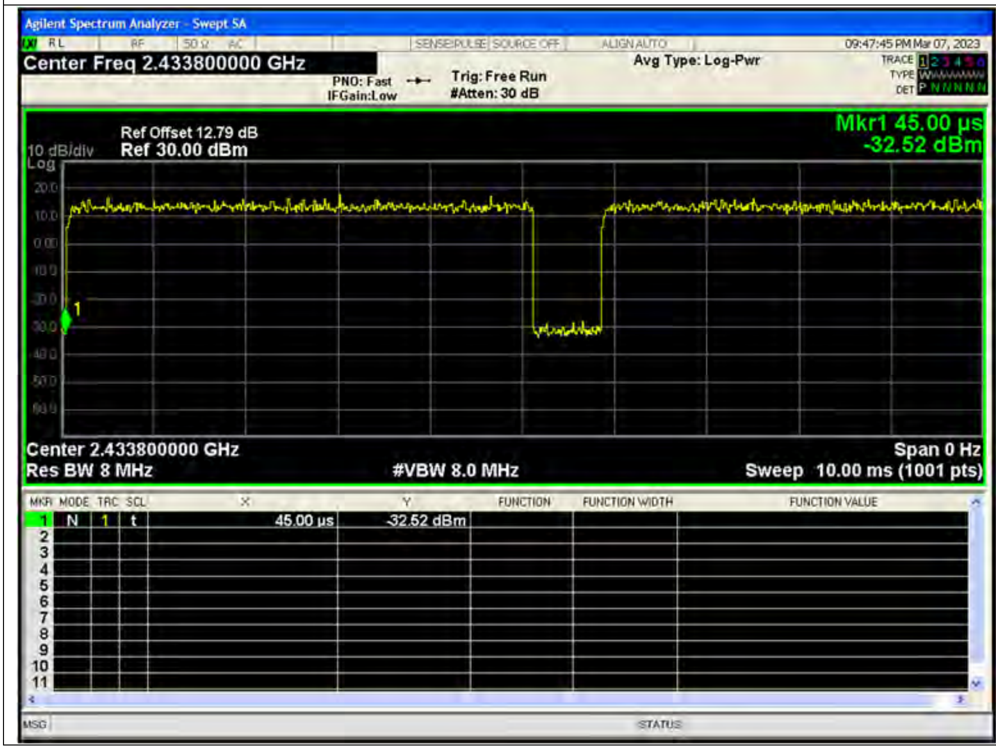
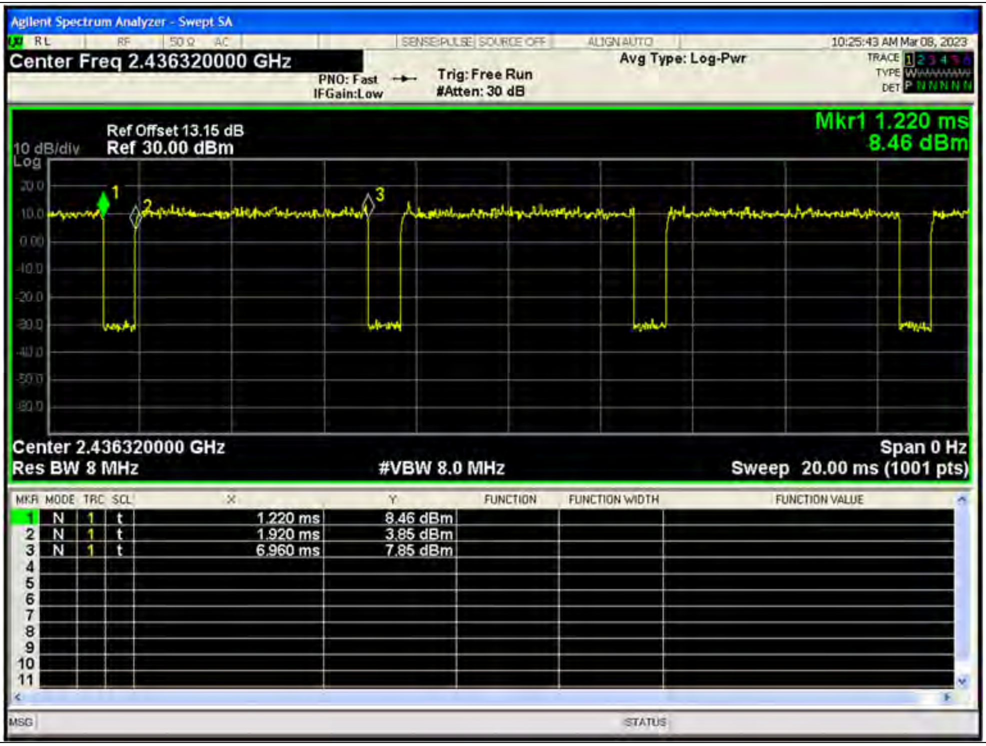
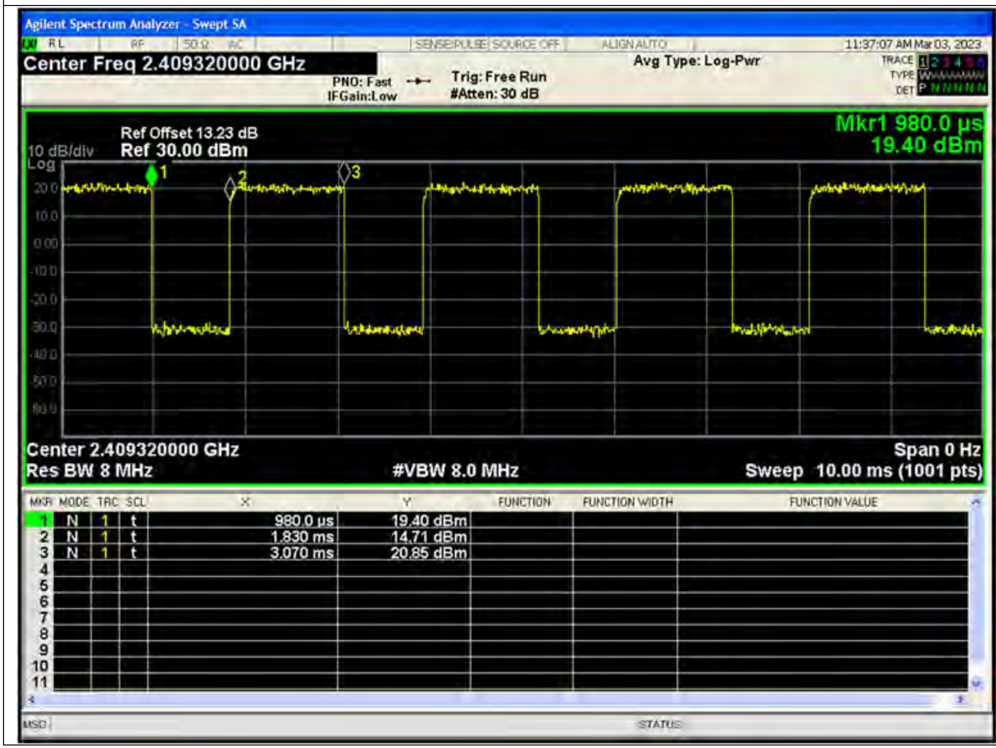


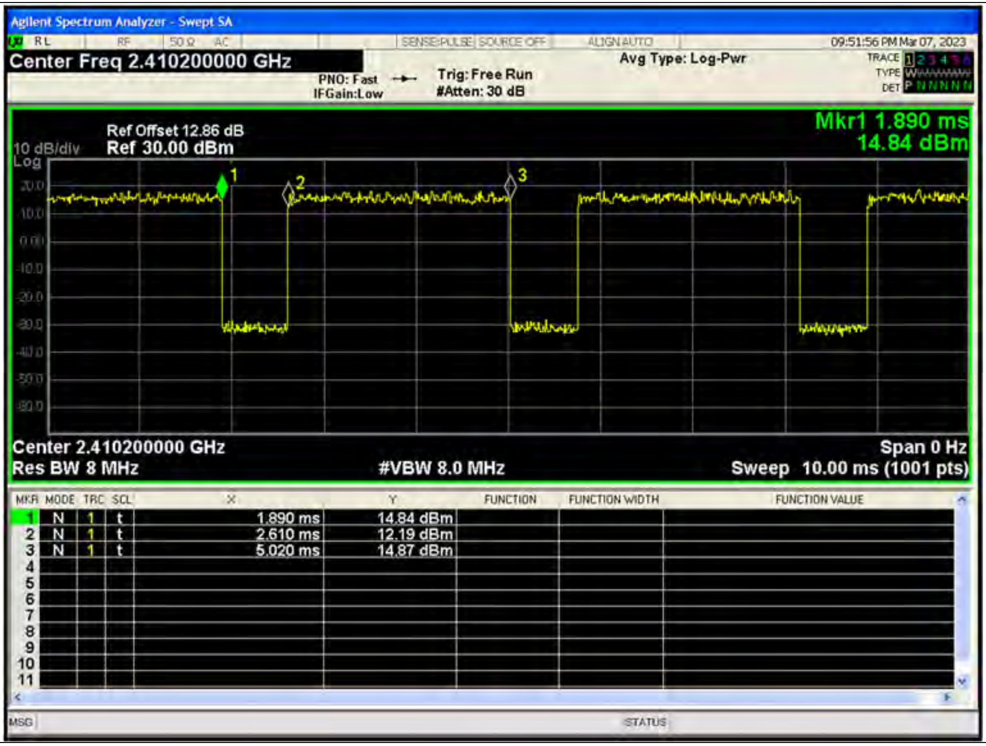
Duty Cycle NVNT ax40 52@37 2452MHz Sum



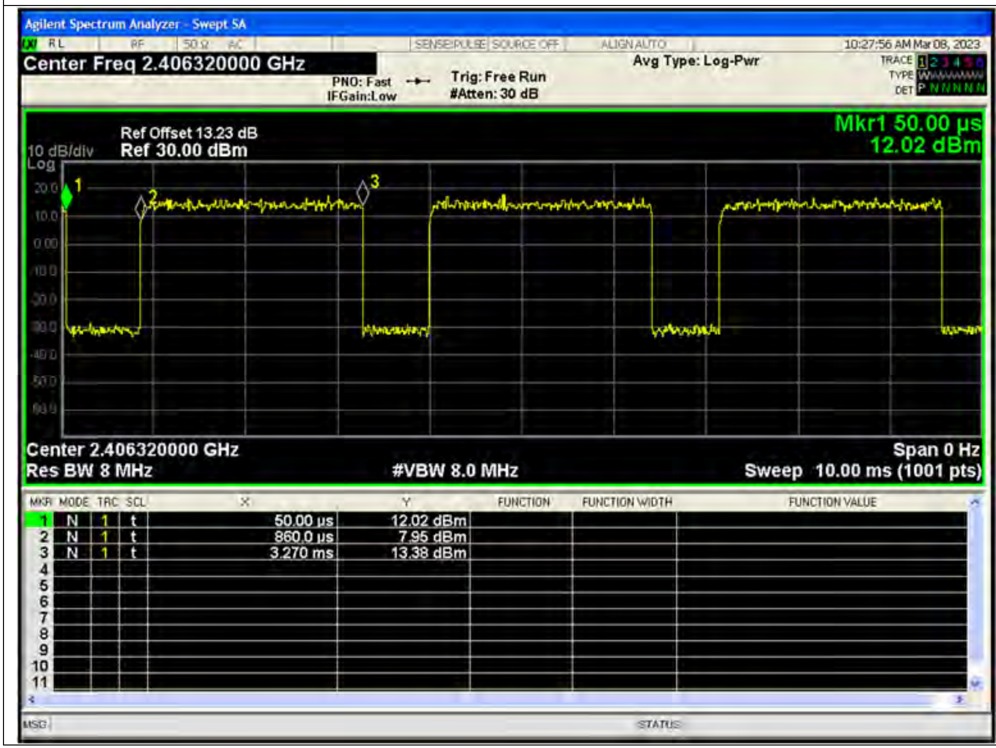
Duty Cycle NVNT ax40 106@53 2422MHz Ant0



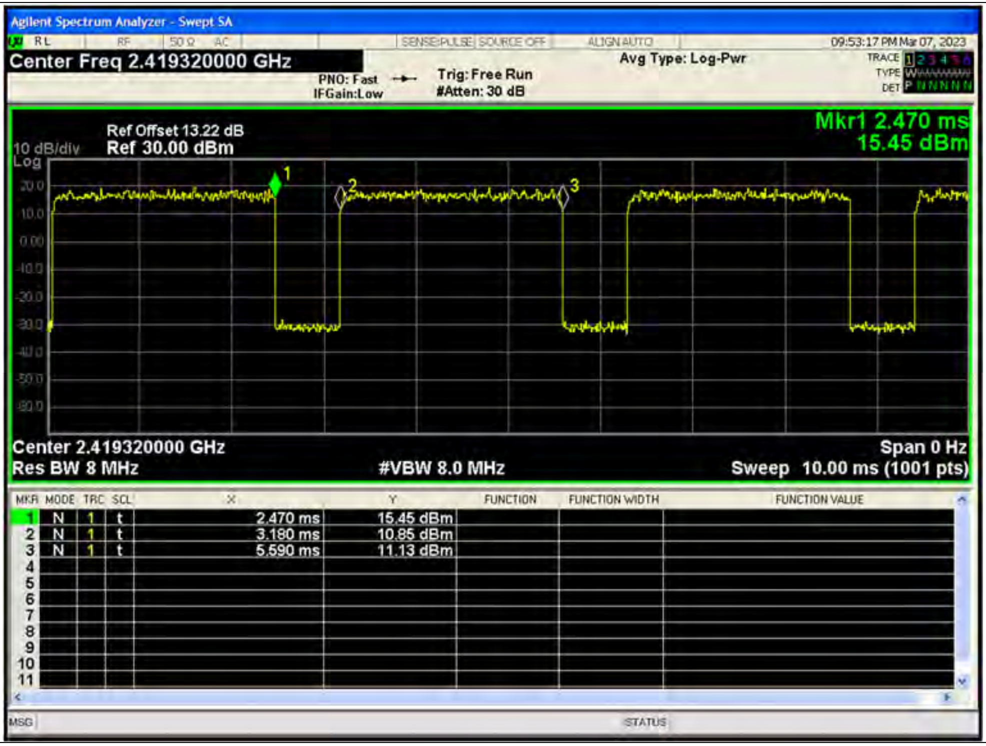
Duty Cycle NVNT ax40 106@53 2422MHz Ant3



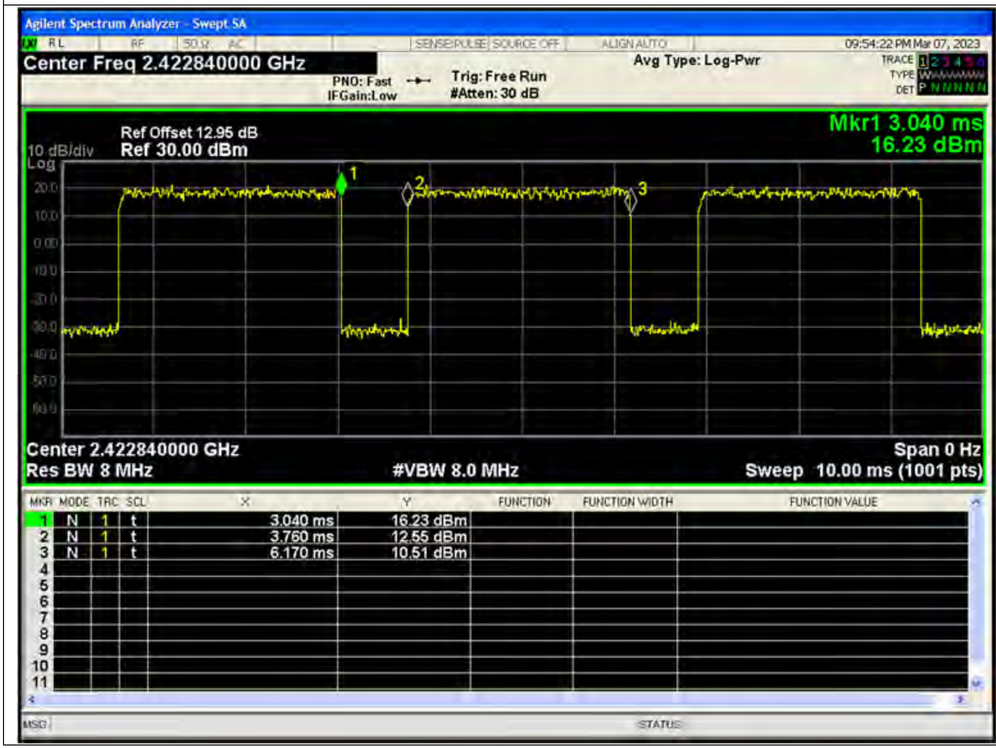
Duty Cycle NVNT ax40 106@53 2422MHz Sum



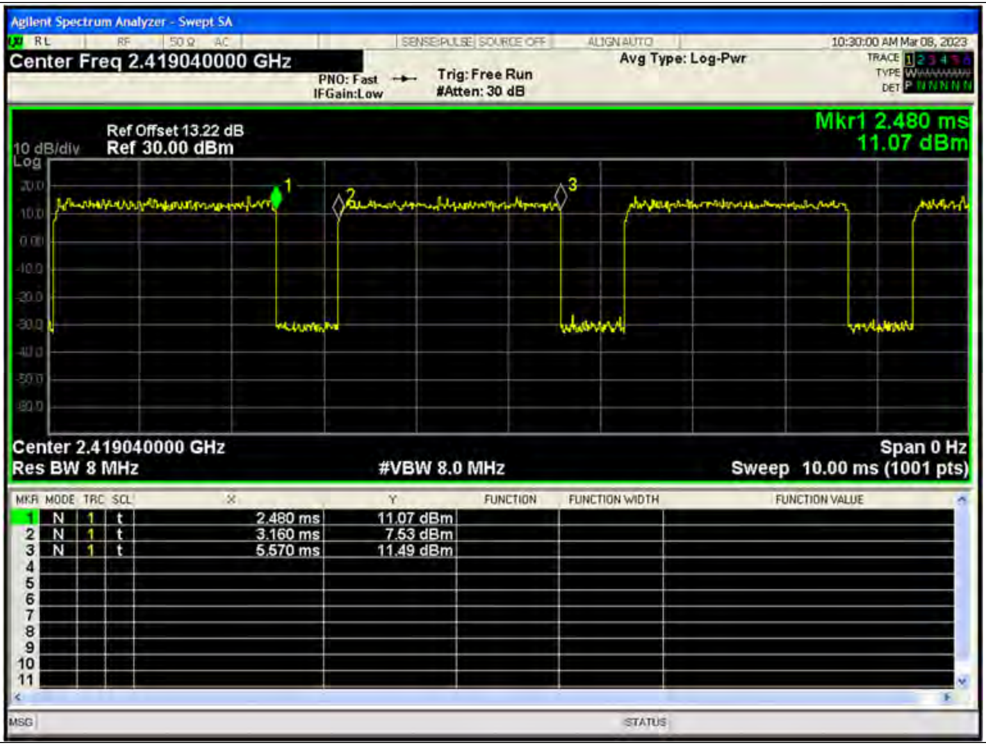
Duty Cycle NVNT ax40 106@53 2437MHz Ant0



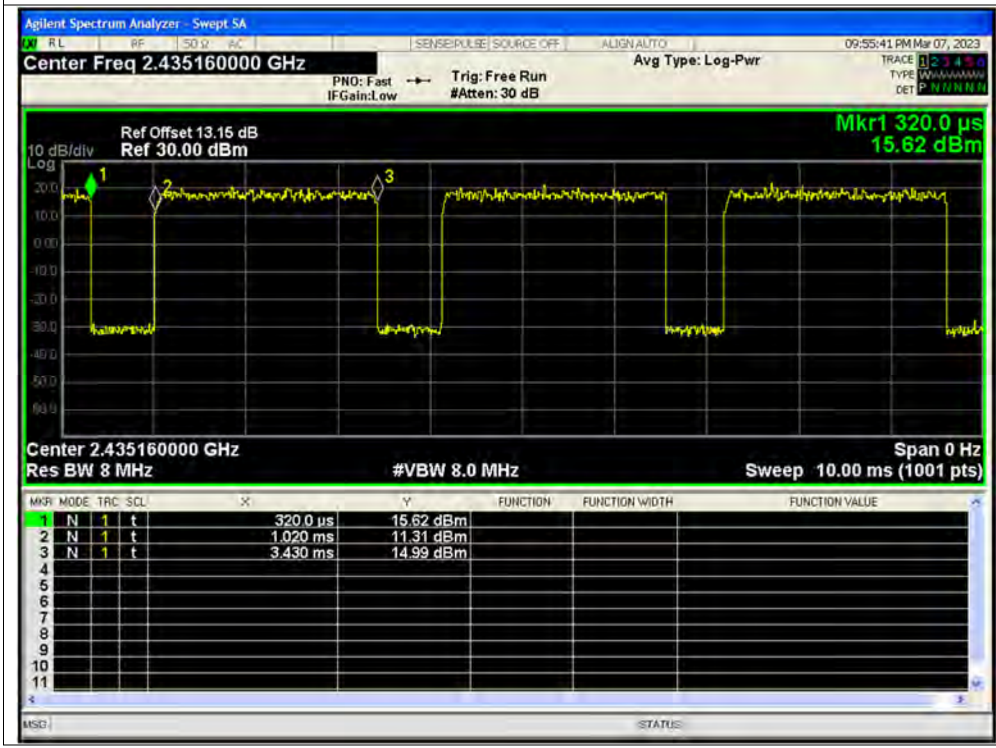
Duty Cycle NVNT ax40 106@53 2437MHz Ant3



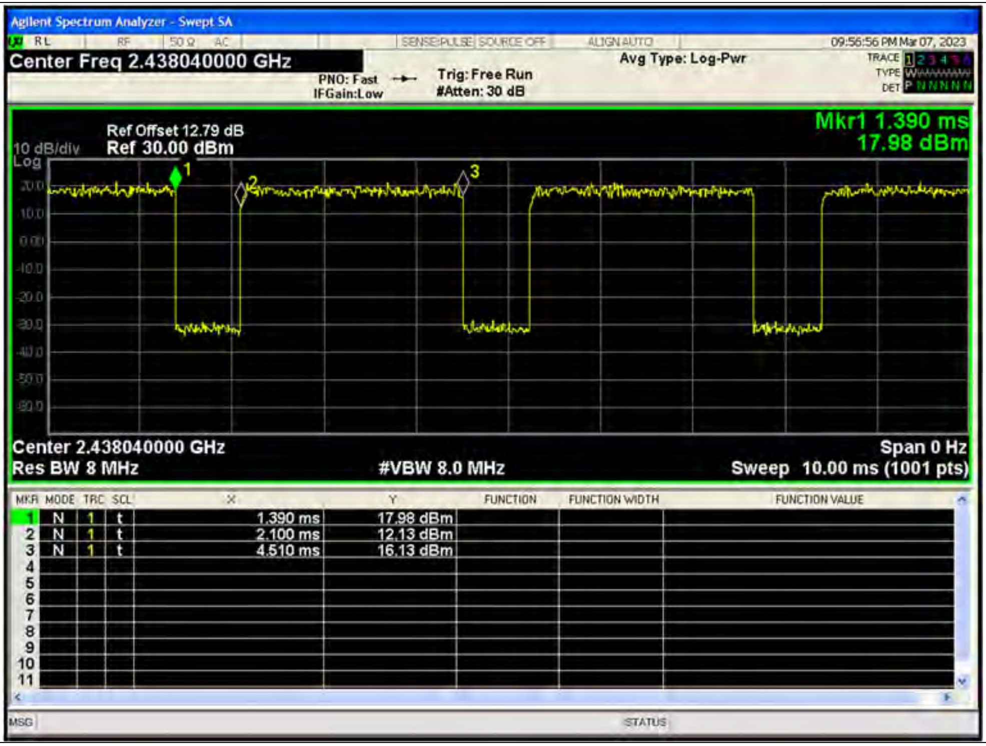
Duty Cycle NVNT ax40 106@53 2437MHz Sum



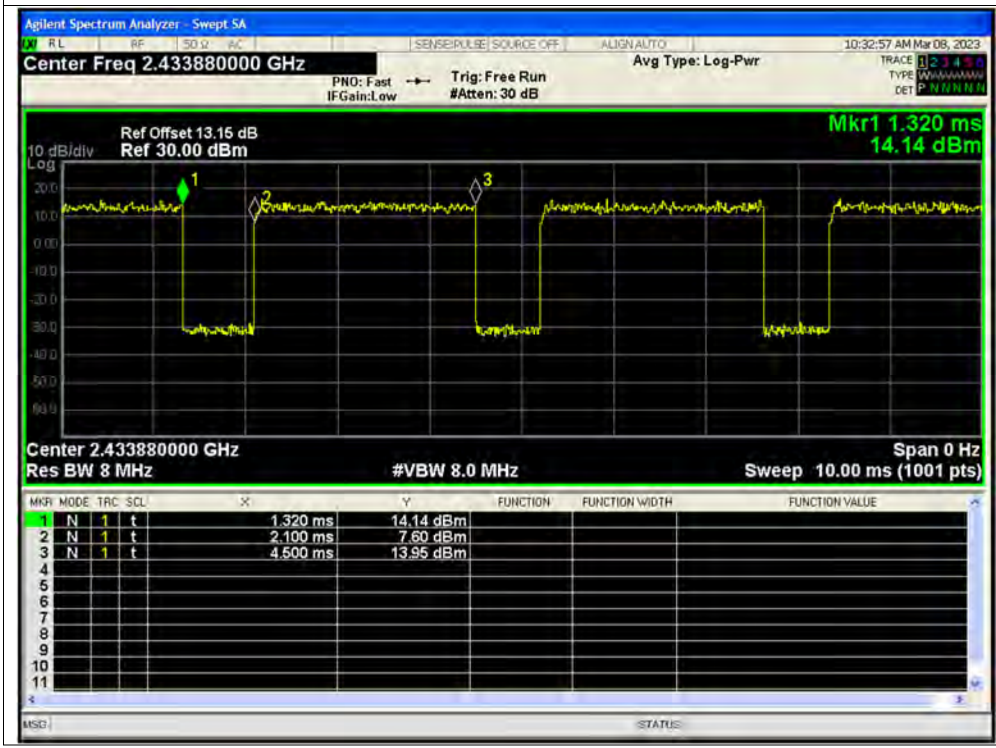
Duty Cycle NVNT ax40 106@53 2452MHz Ant0



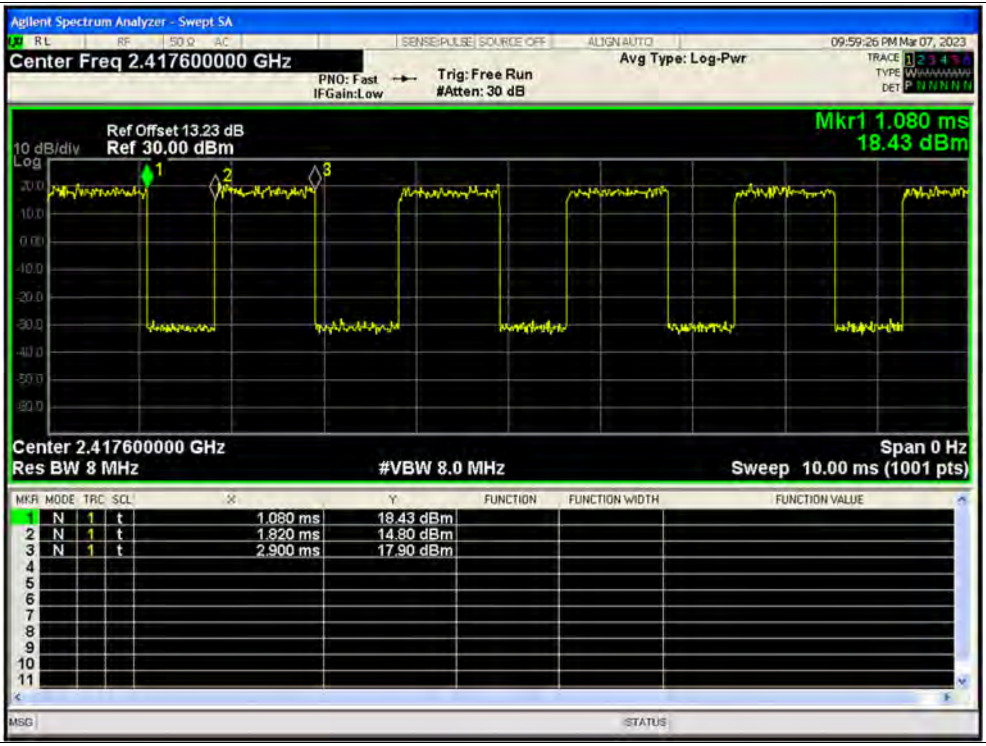
Duty Cycle NVNT ax40 106@53 2452MHz Ant3



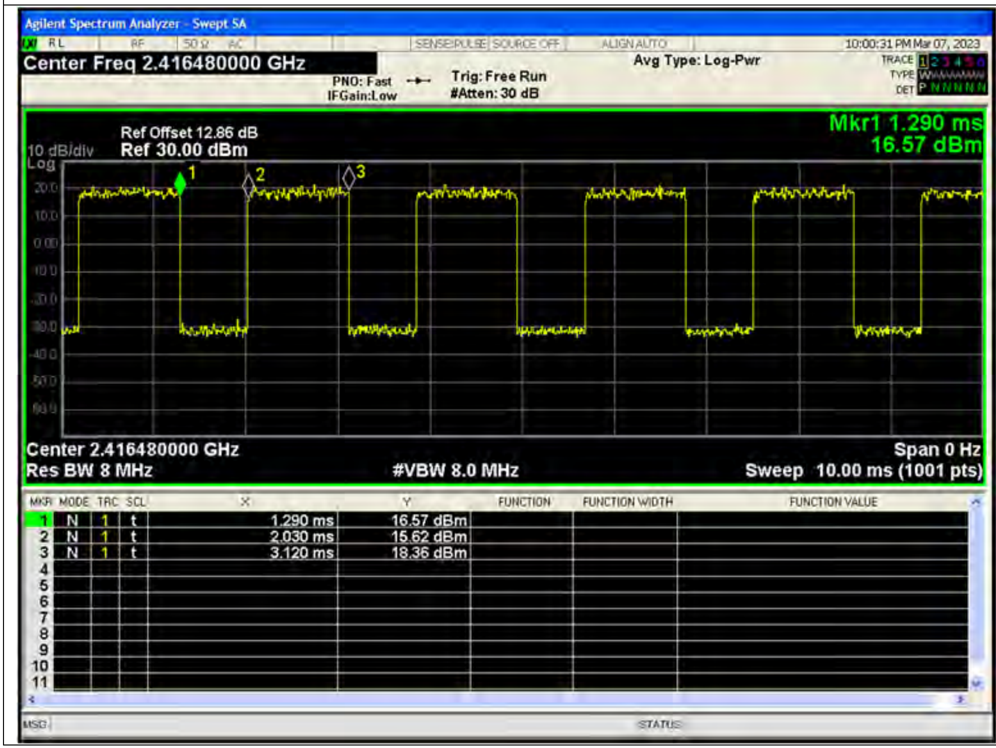
Duty Cycle NVNT ax40 106@53 2452MHz Sum



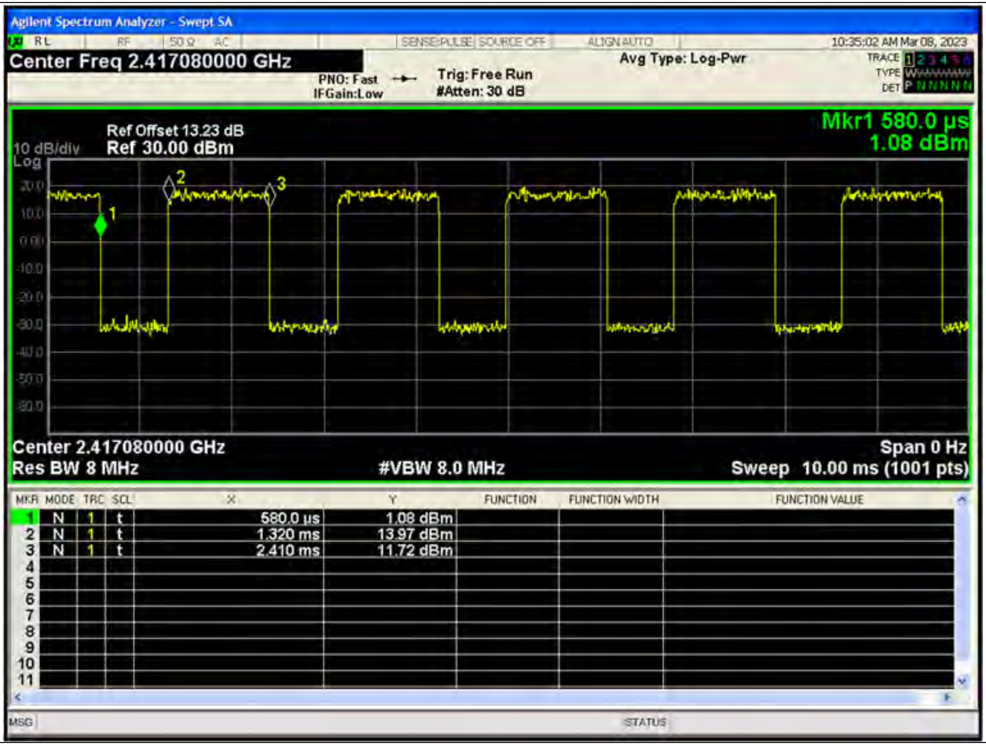
Duty Cycle NVNT ax40 242@61 2422MHz Ant0



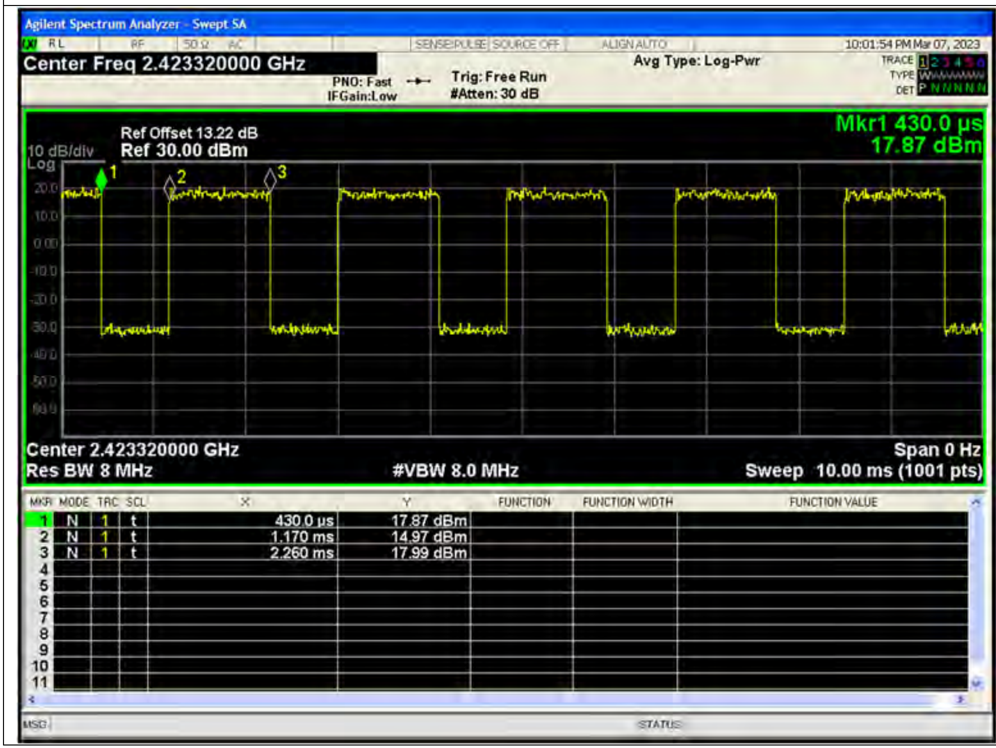
Duty Cycle NVNT ax40 242@61 2422MHz Ant3



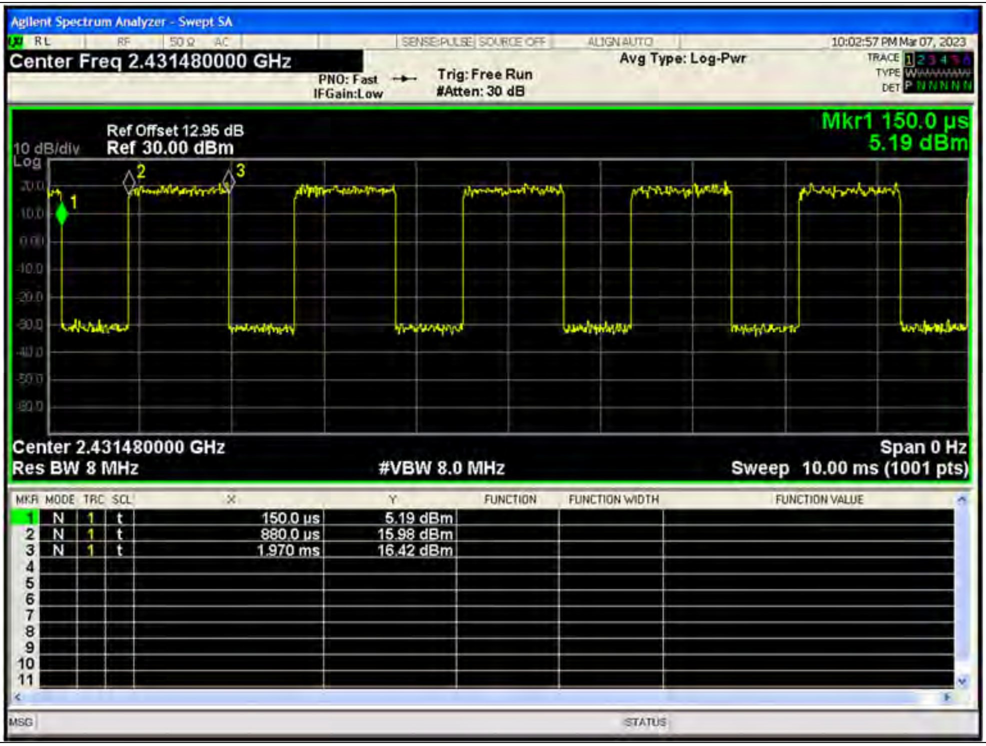
Duty Cycle NVNT ax40 242@61 2422MHz Sum



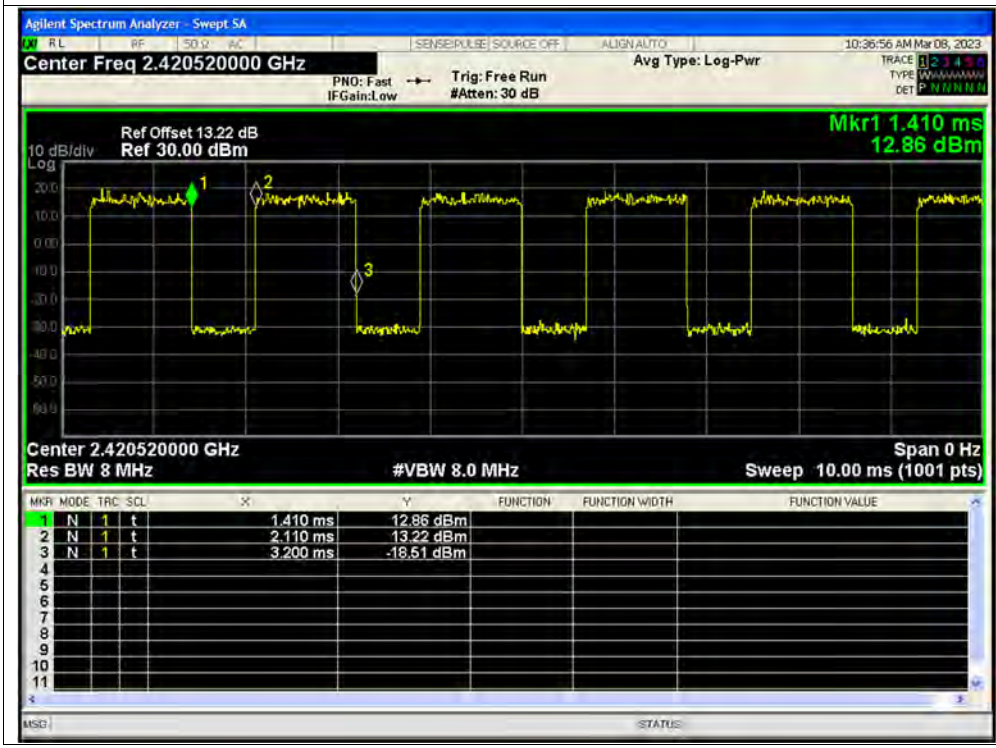
Duty Cycle NVNT ax40 242@61 2437MHz Ant0



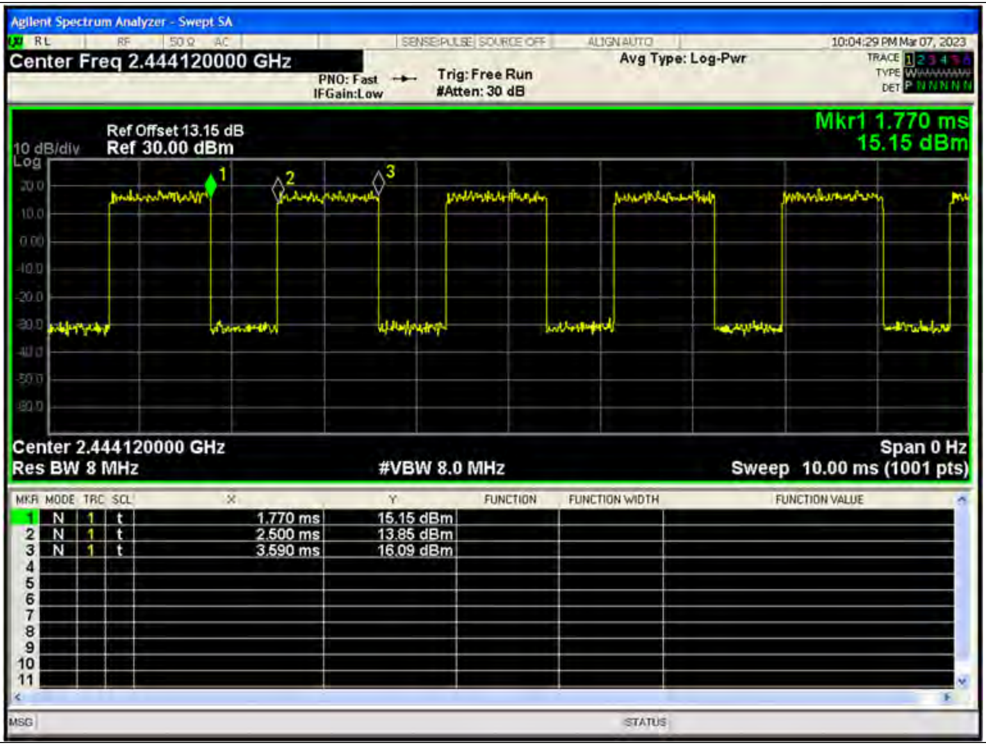
Duty Cycle NVNT ax40 242@61 2437MHz Ant3



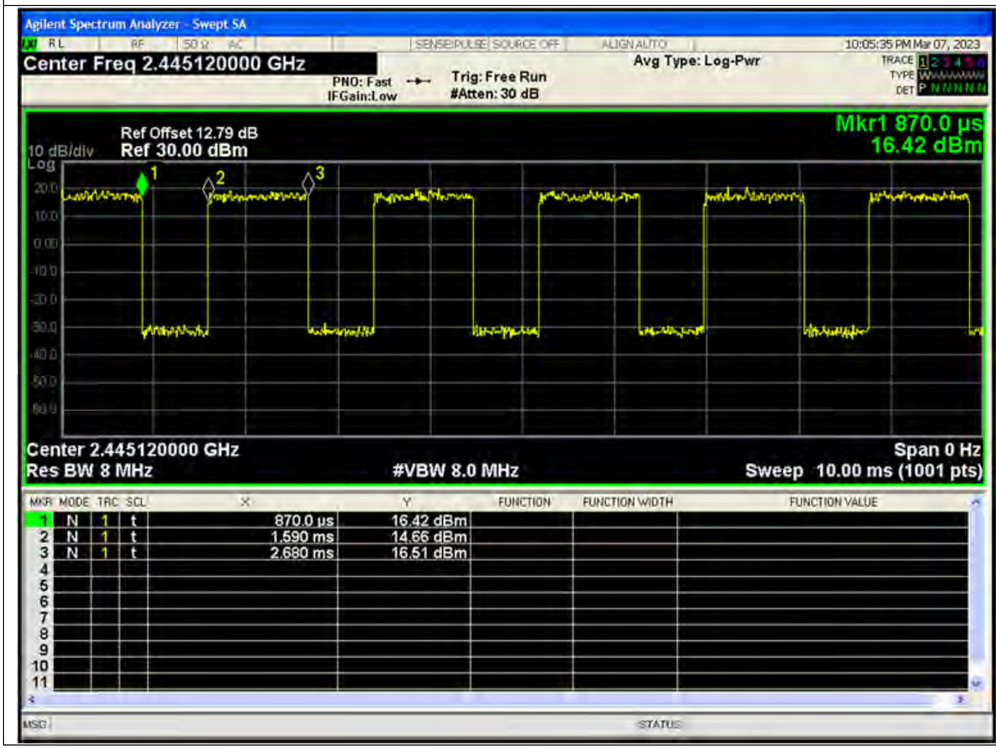
Duty Cycle NVNT ax40 242@61 2437MHz Sum



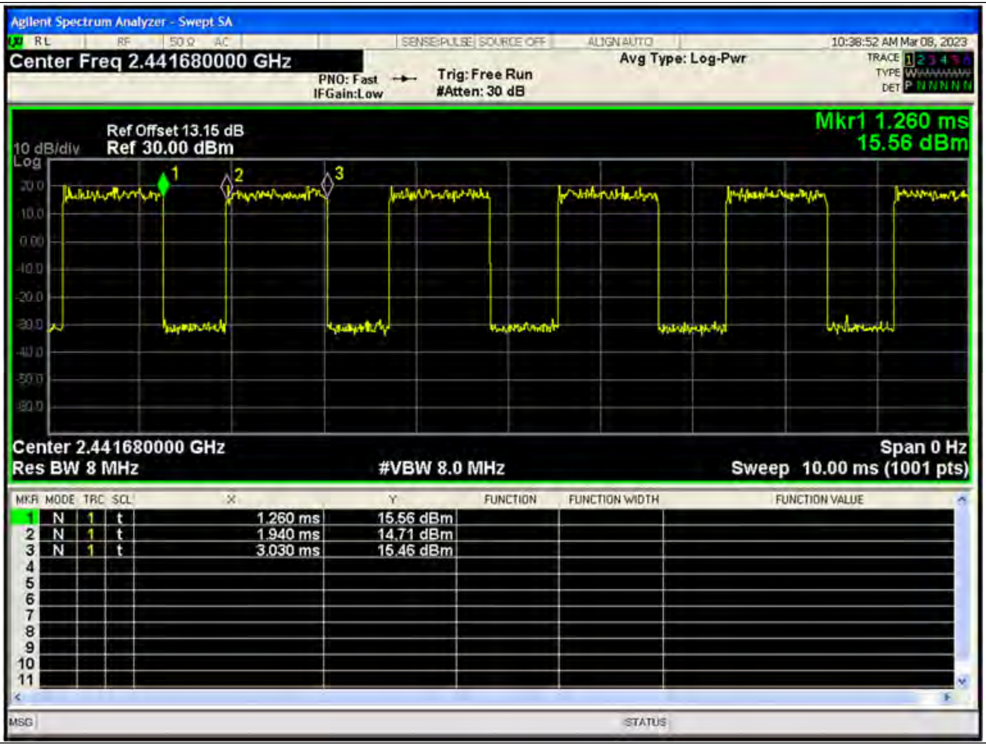
Duty Cycle NVNT ax40 242@61 2452MHz Ant0

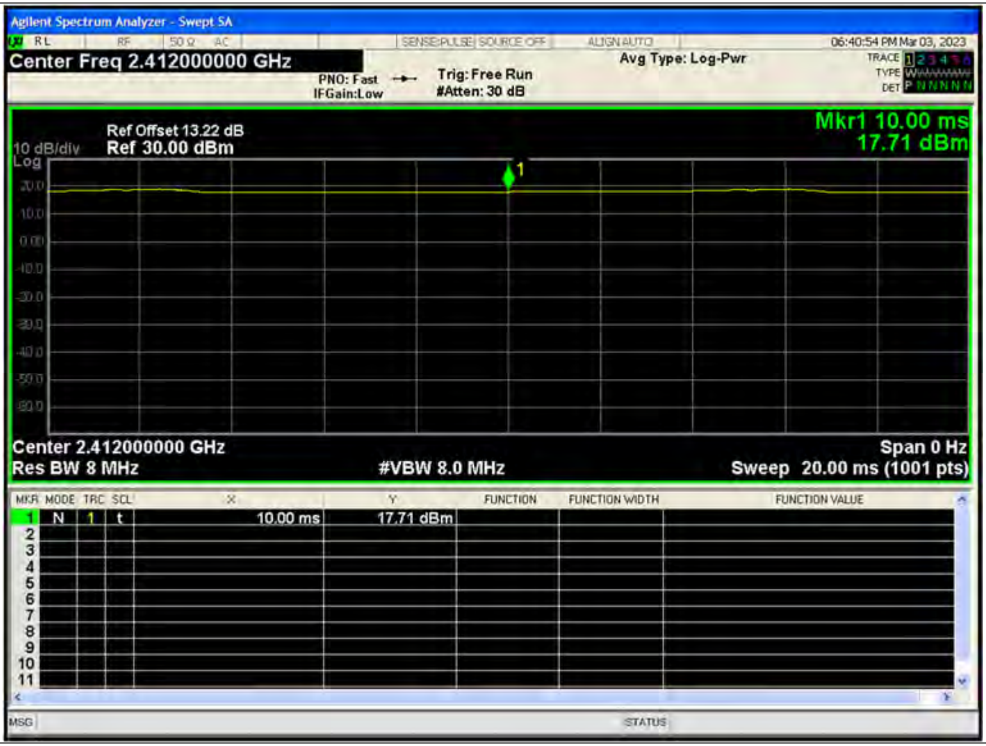
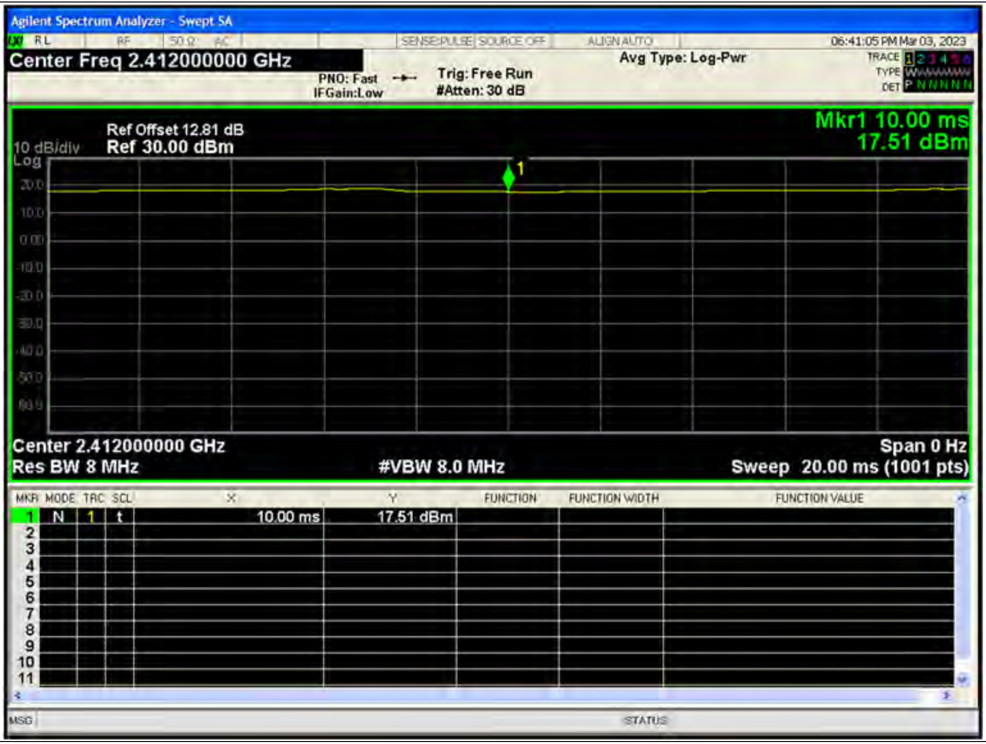


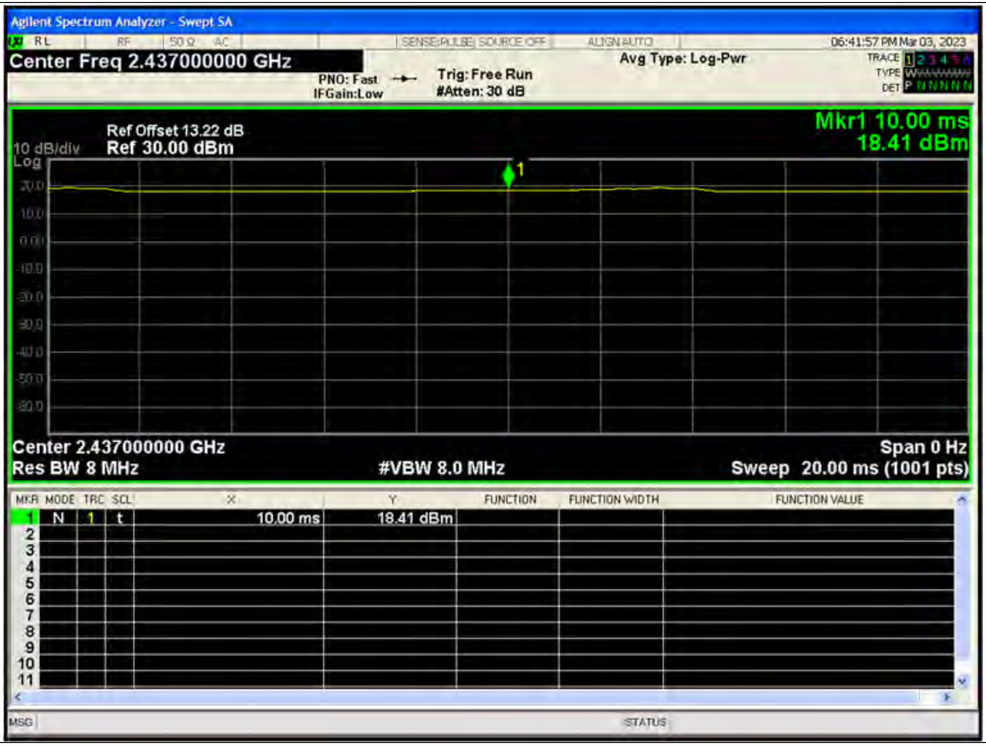
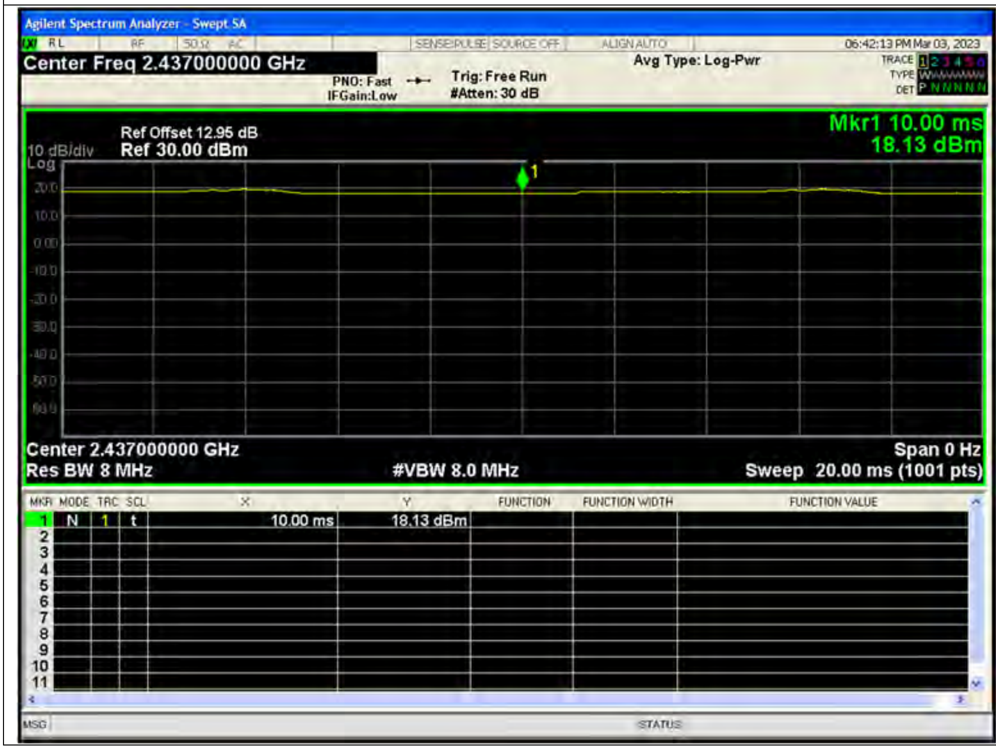
Duty Cycle NVNT ax40 242@61 2452MHz Ant3



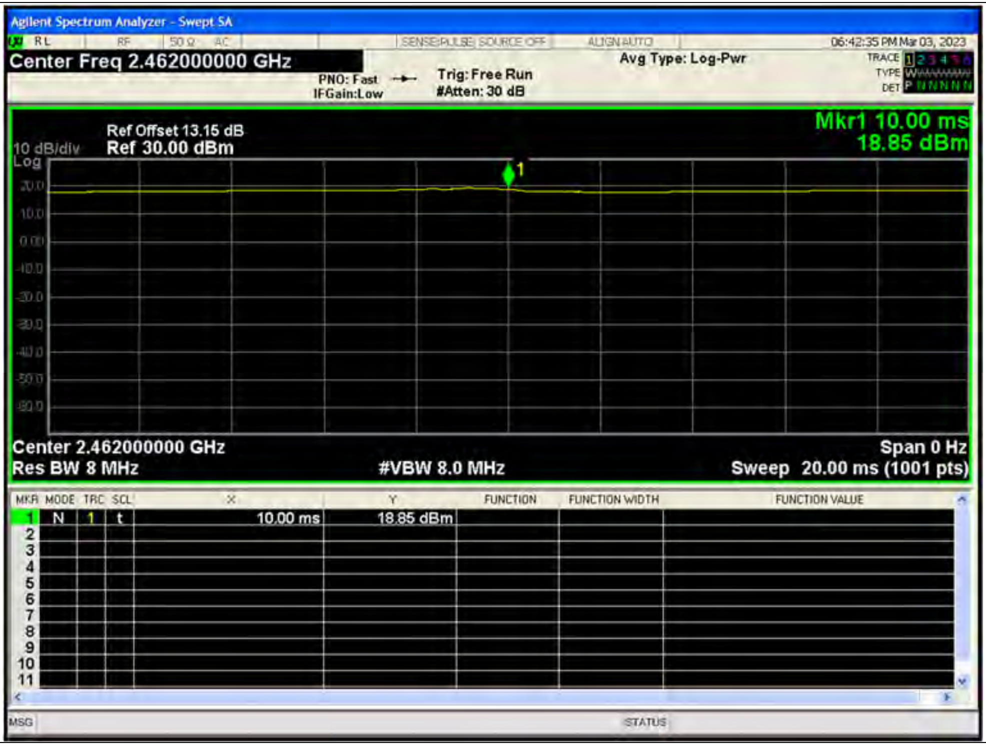
Duty Cycle NVNT ax40 242@61 2452MHz Sum



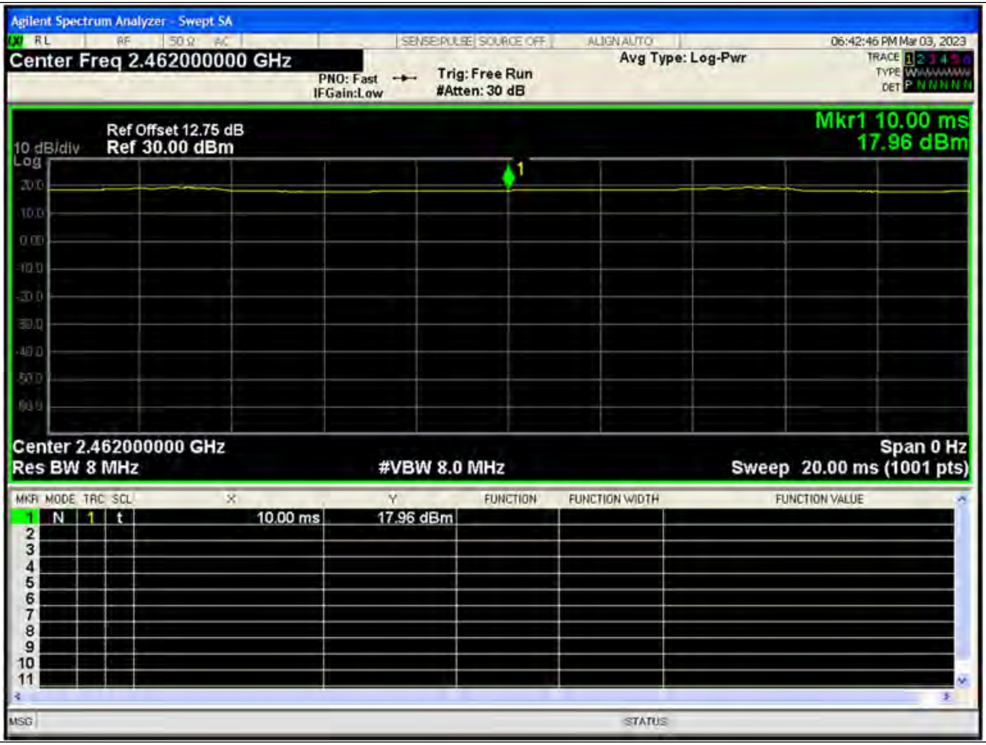
Test Graphs
Duty Cycle NVNT b 2412MHz Ant1

Duty Cycle NVNT b 2412MHz Ant2


Duty Cycle NVNT b 2437MHz Ant1

Duty Cycle NVNT b 2437MHz Ant2


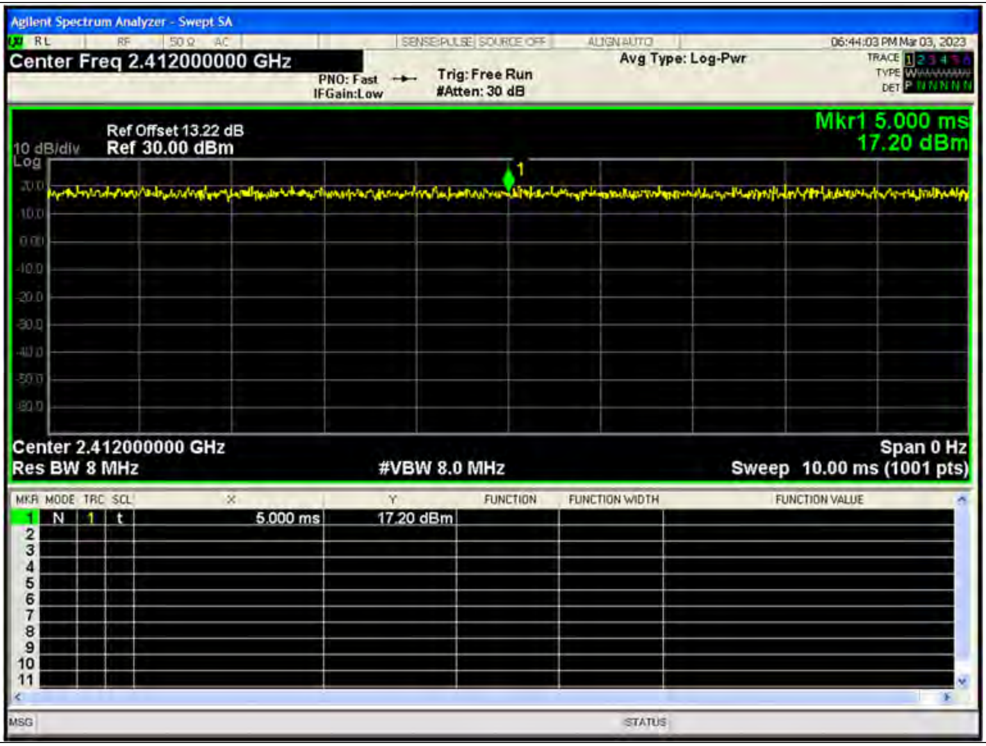
Duty Cycle NVNT b 2462MHz Ant1



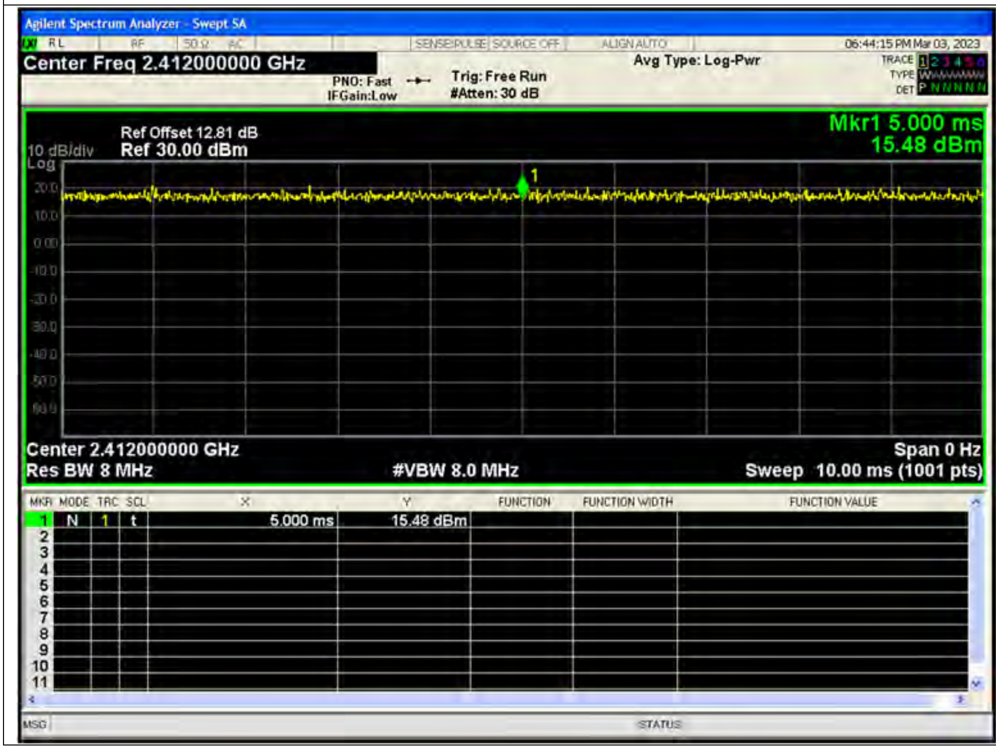
Duty Cycle NVNT b 2462MHz Ant2



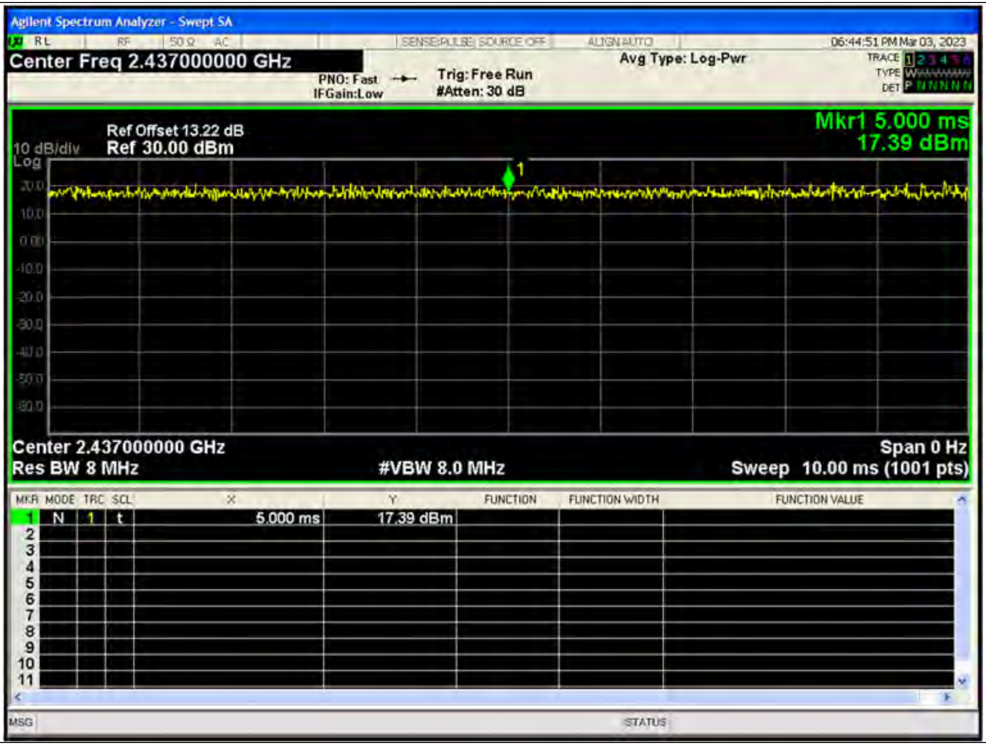
Duty Cycle NVNT g 2412MHz Ant1



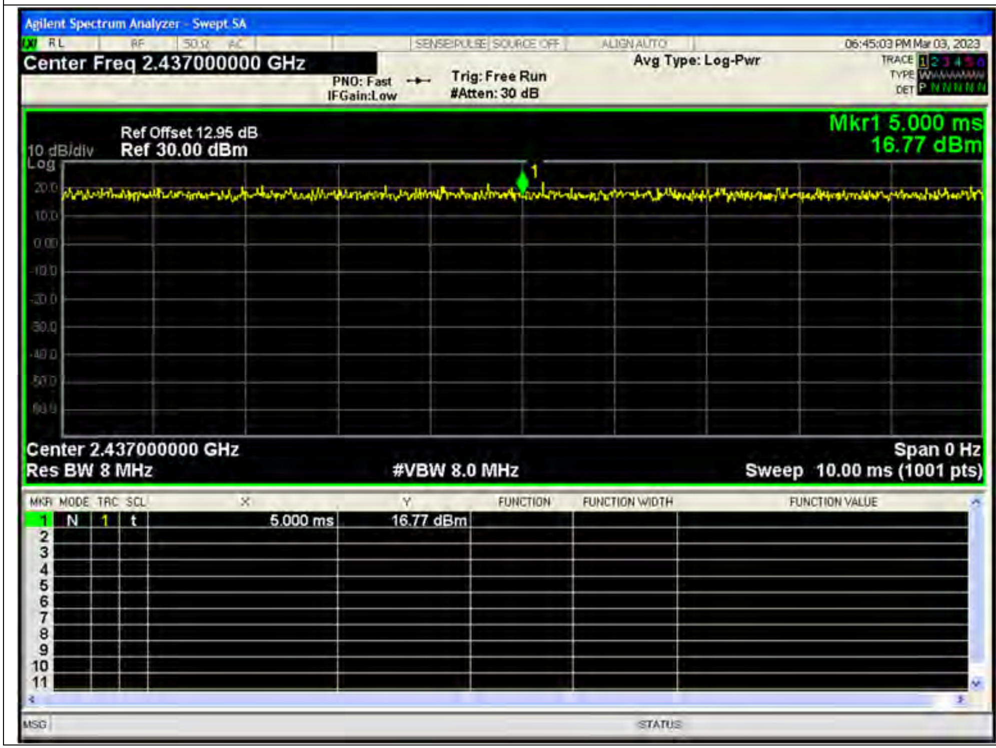
Duty Cycle NVNT g 2412MHz Ant2



Duty Cycle NVNT g 2437MHz Ant1



Duty Cycle NVNT g 2437MHz Ant2



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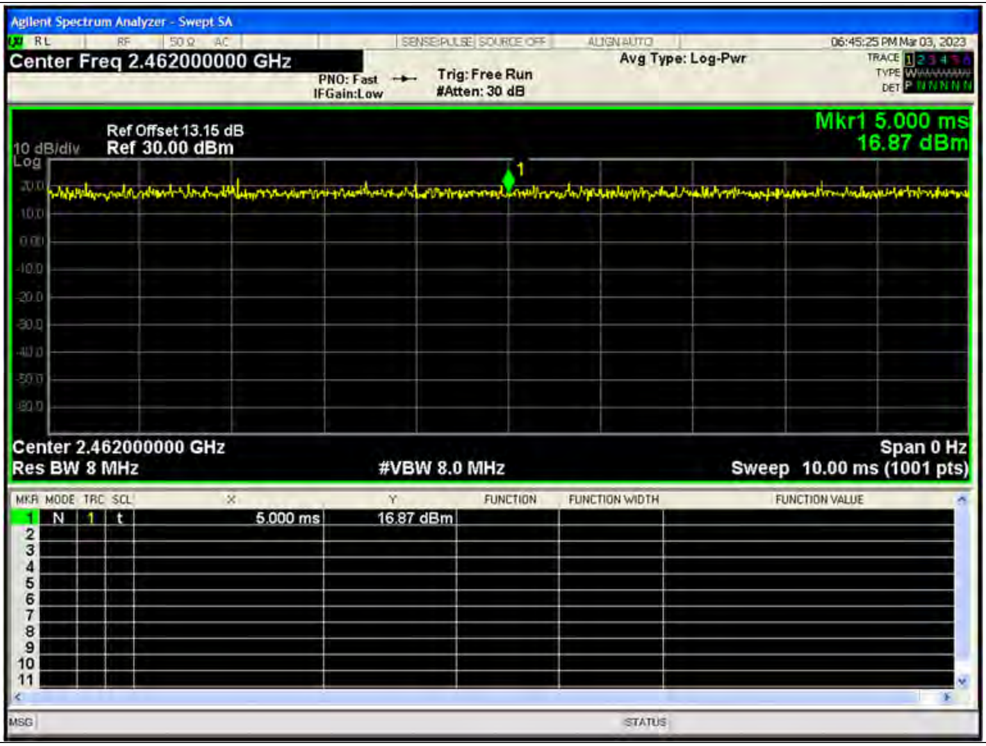
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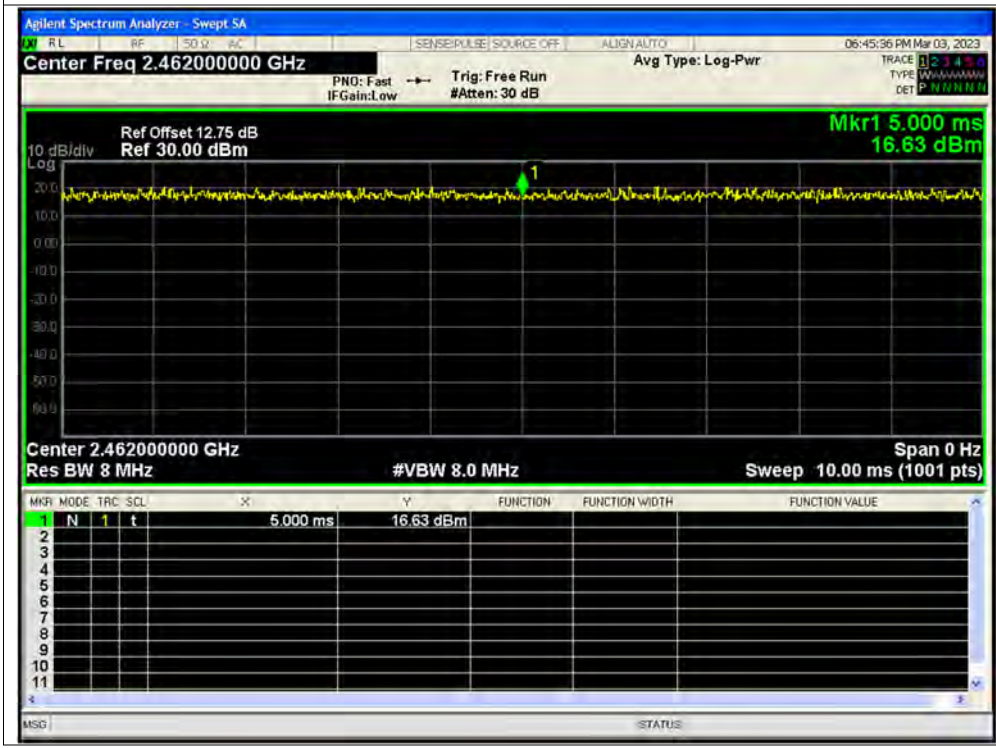
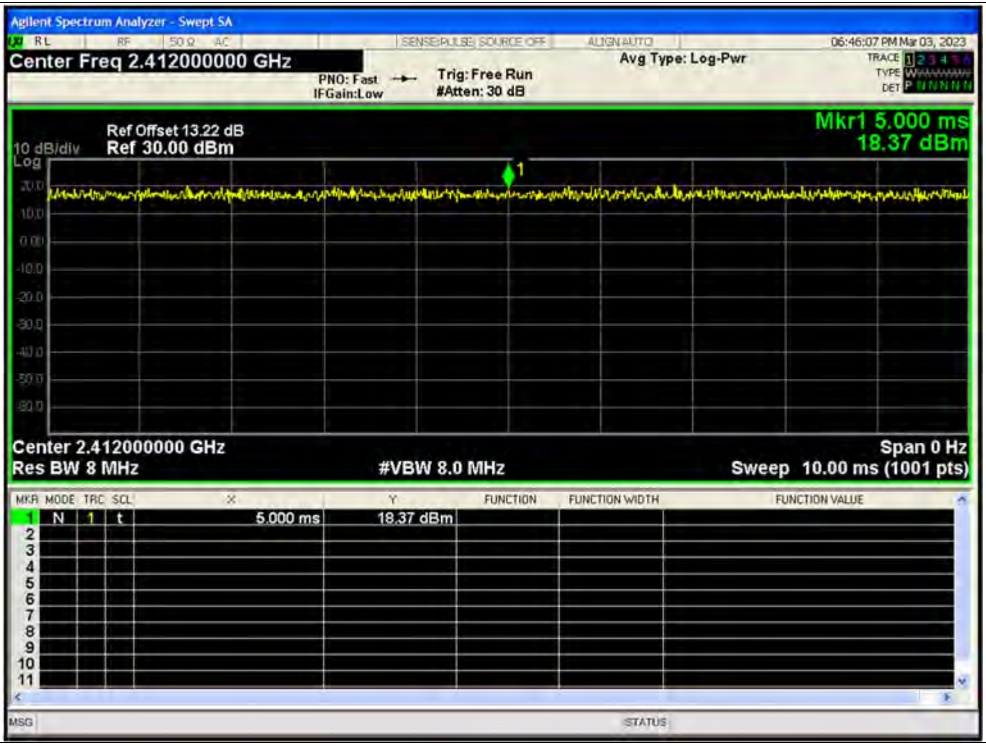
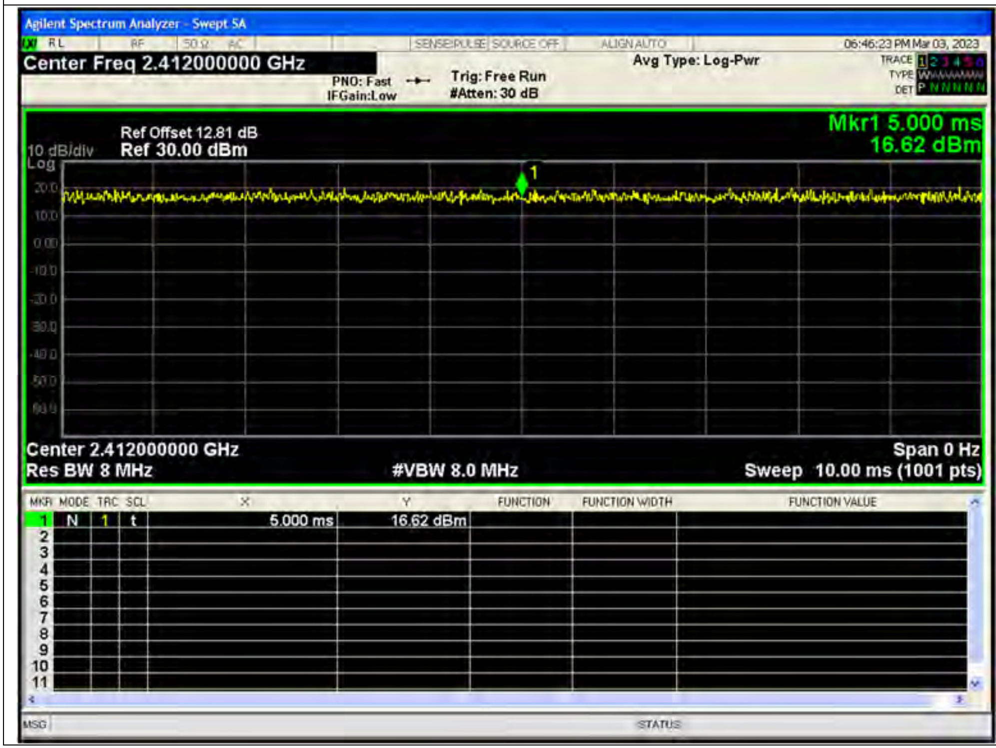


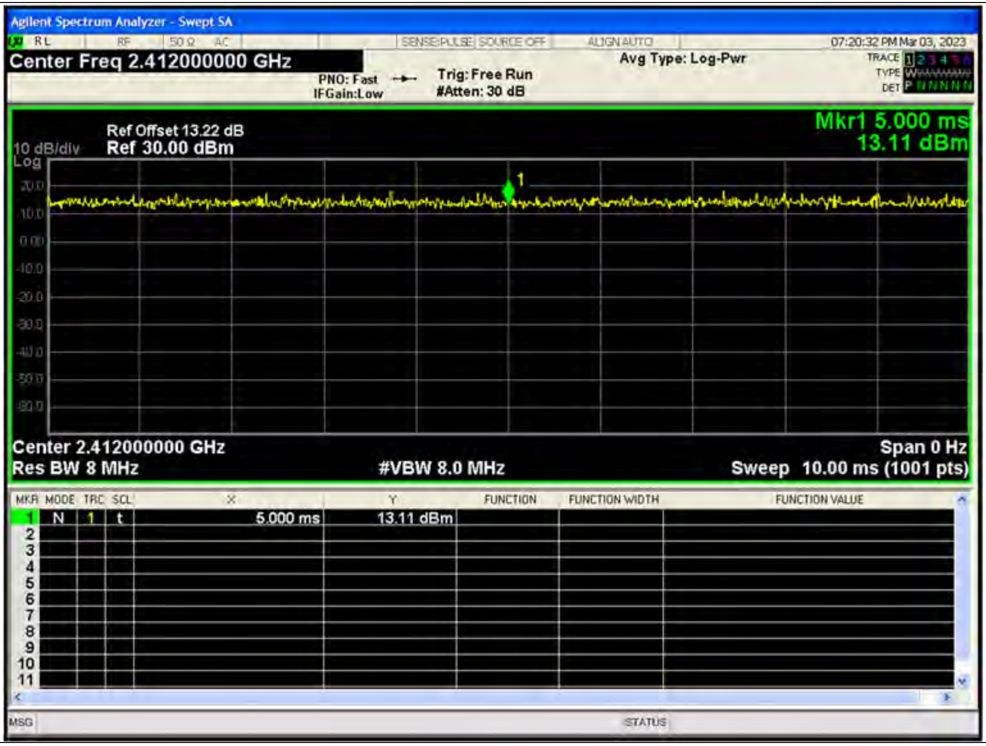
Duty Cycle NVNT n20 2412MHz Ant1



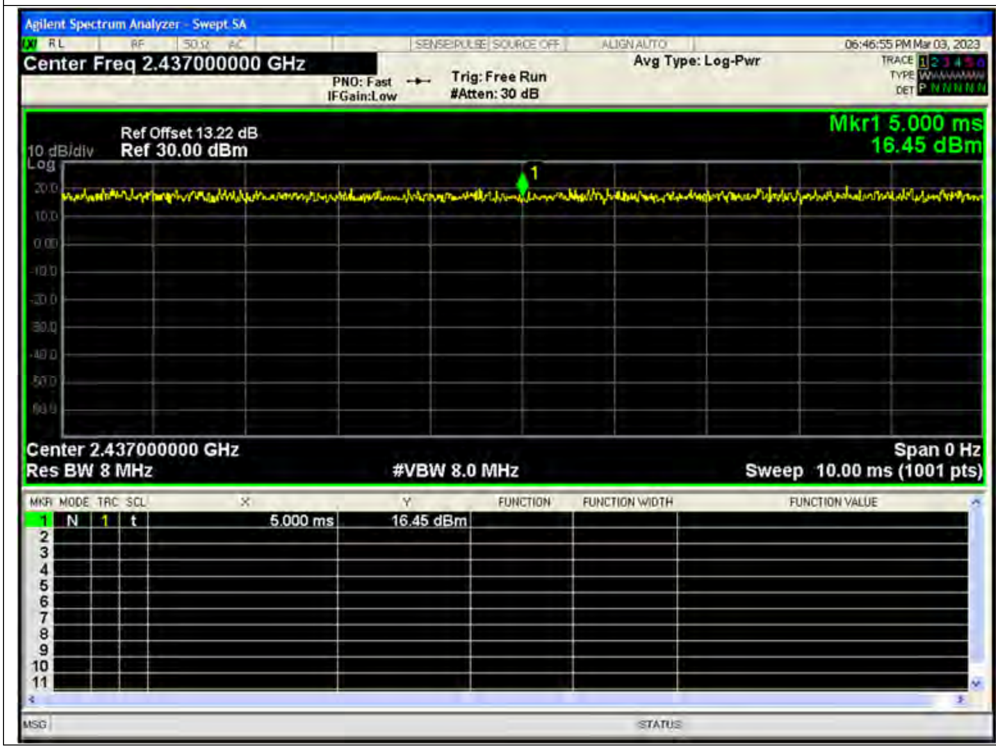
Duty Cycle NVNT n20 2412MHz Ant2



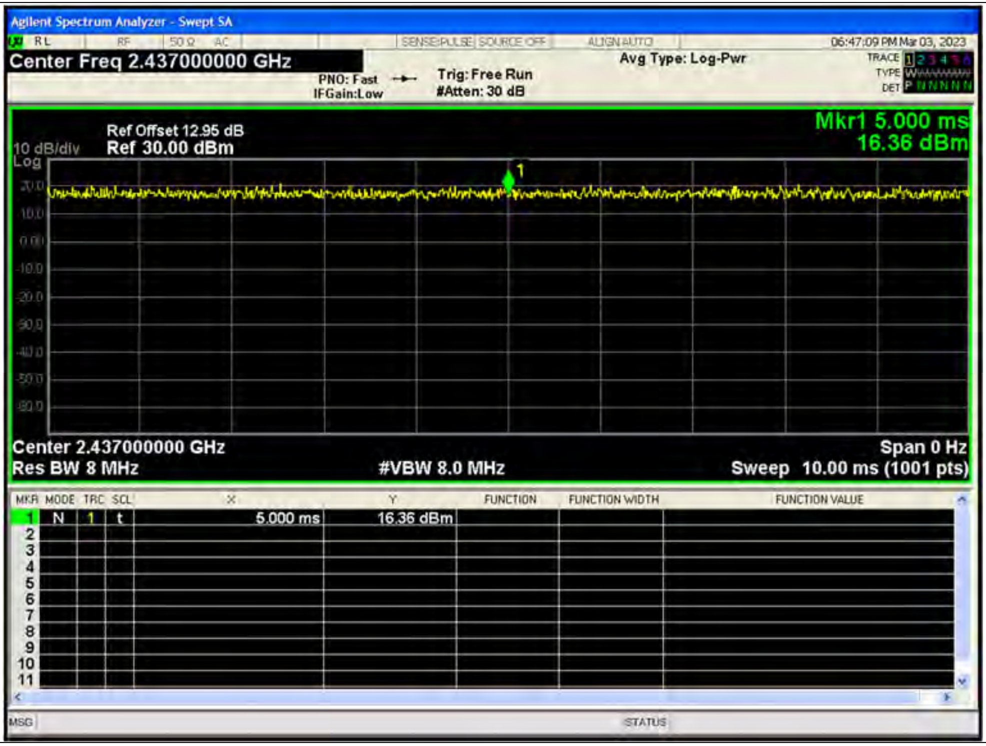
Duty Cycle NVNT n20 2412MHz Sum



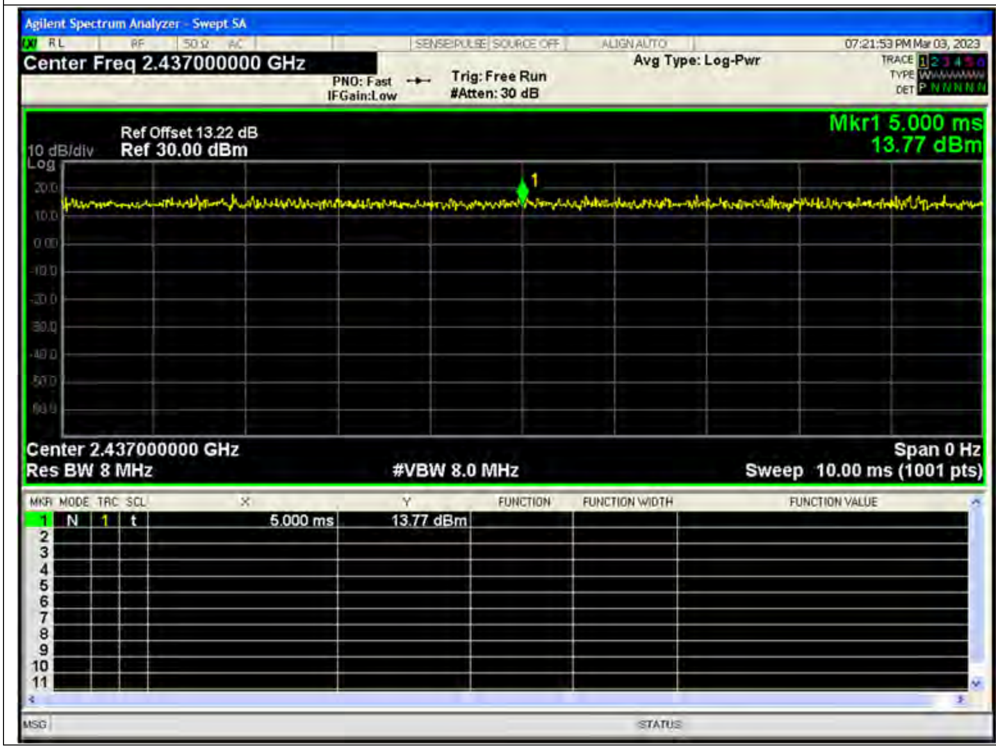
Duty Cycle NVNT n20 2437MHz Ant1



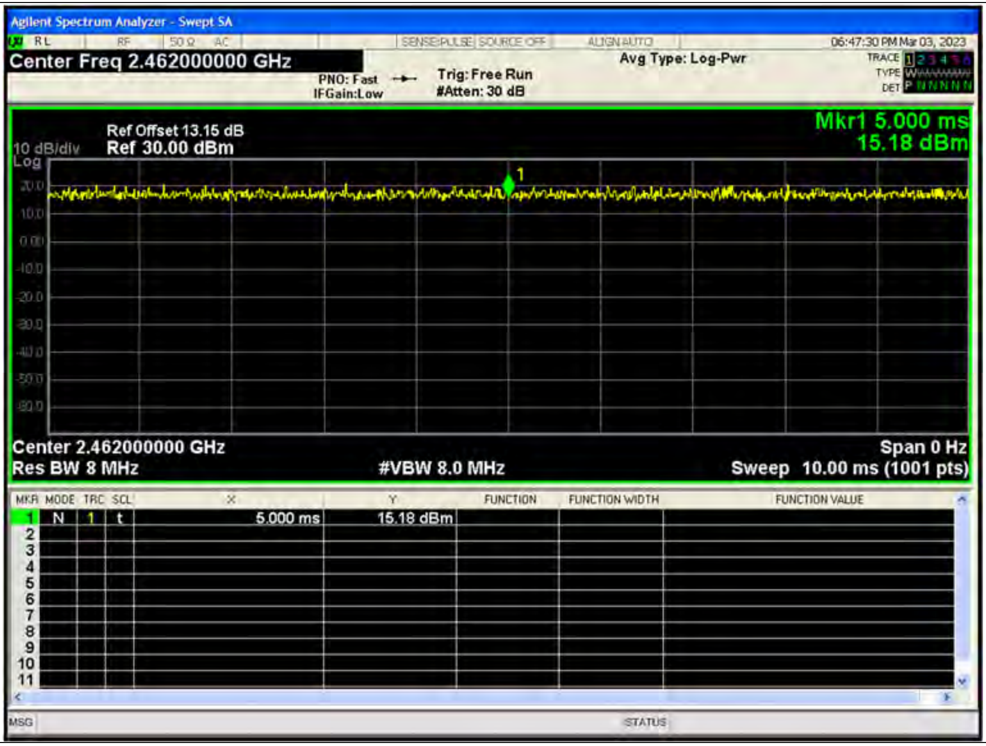
Duty Cycle NVNT n20 2437MHz Ant2



Duty Cycle NVNT n20 2437MHz Sum



Duty Cycle NVNT n20 2462MHz Ant1



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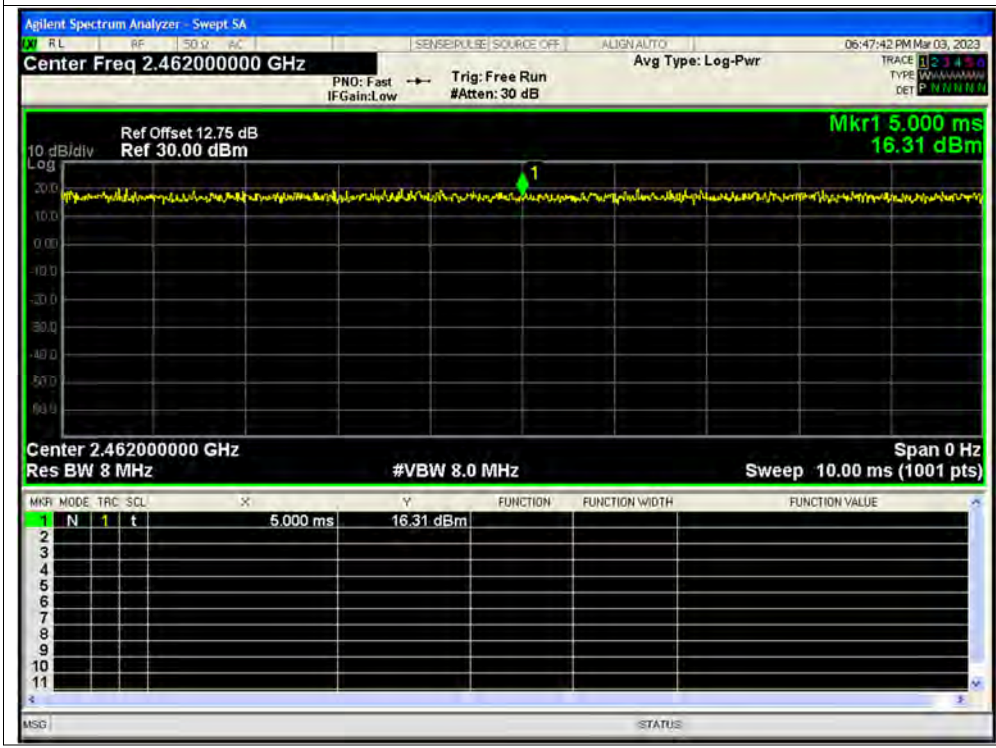
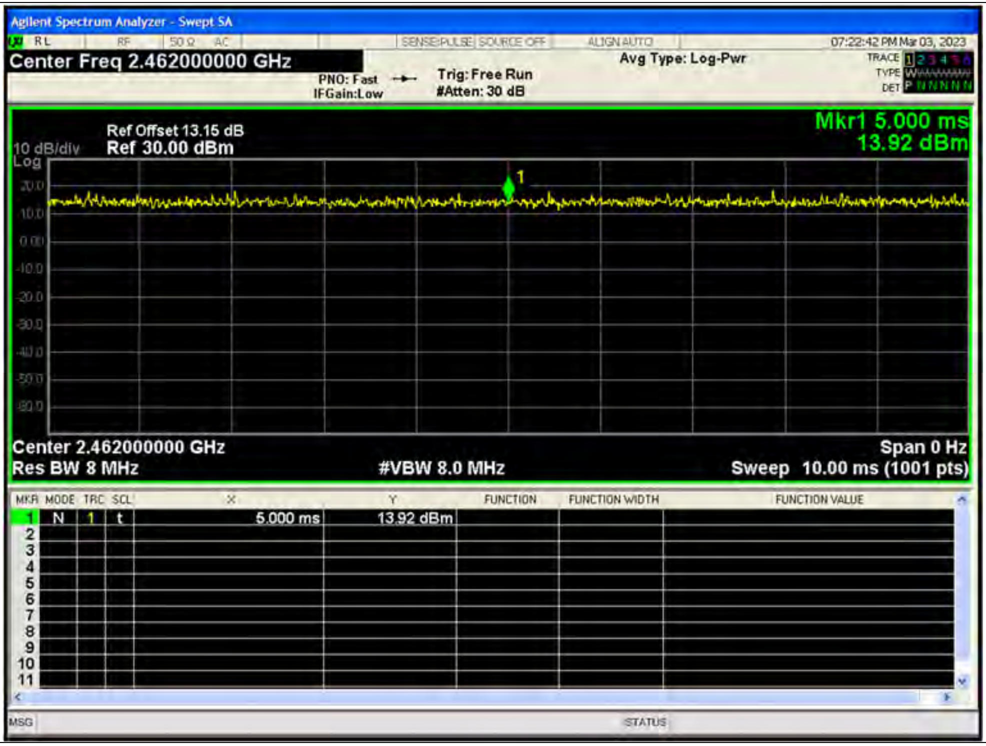
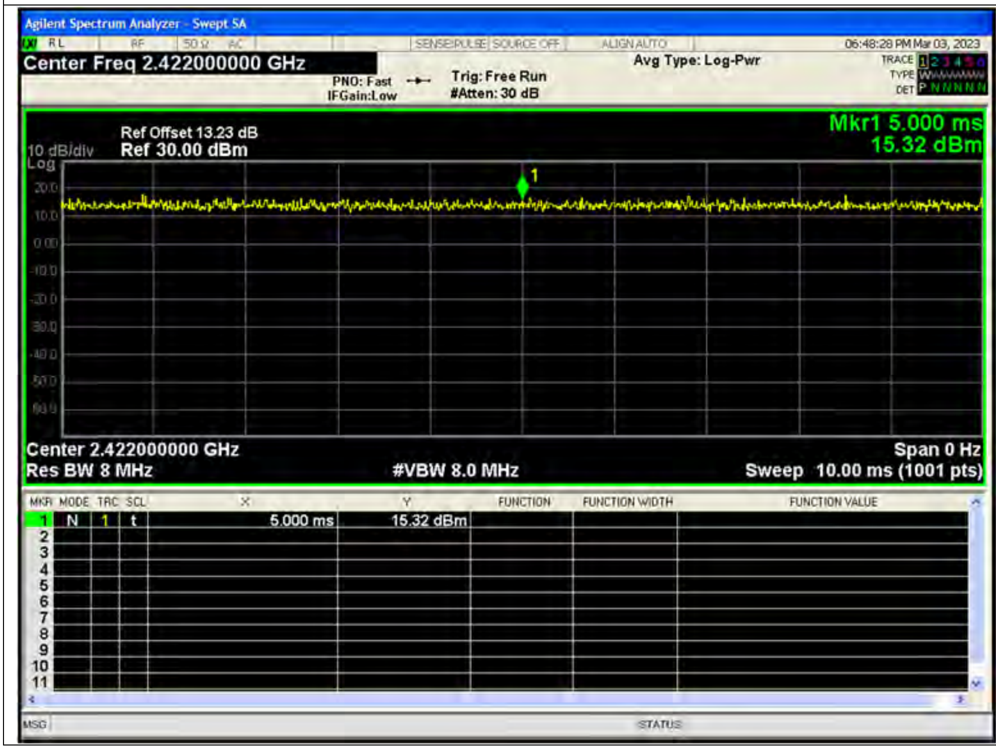


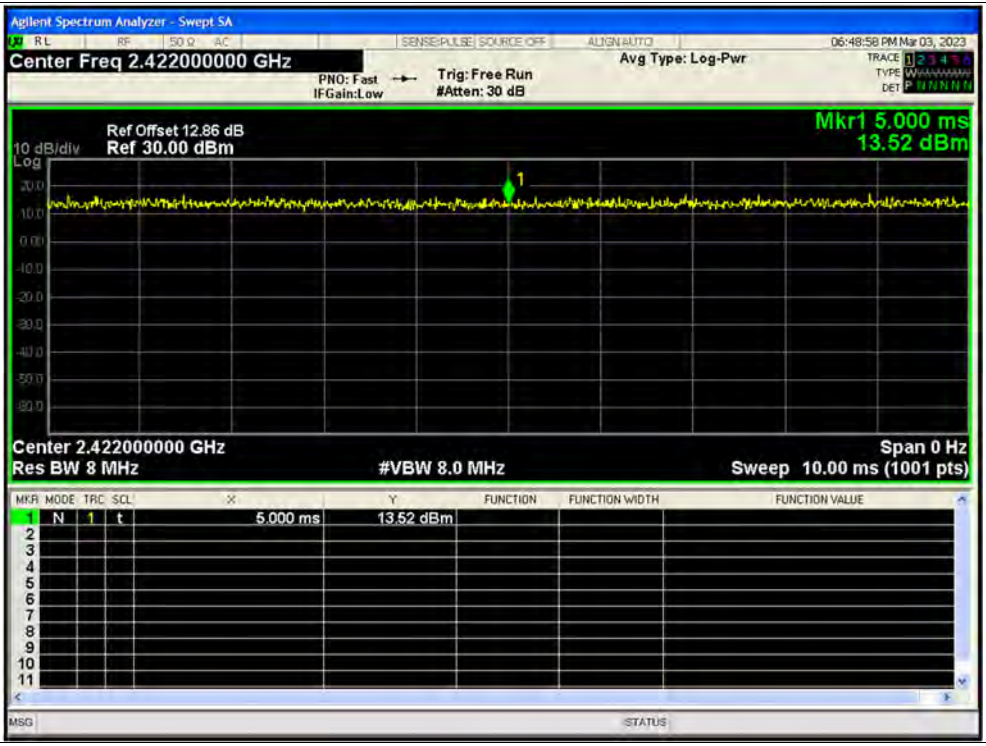
Duty Cycle NVNT n20 2462MHz Sum



Duty Cycle NVNT n40 2422MHz Ant1



Duty Cycle NVNT n40 2422MHz Ant2



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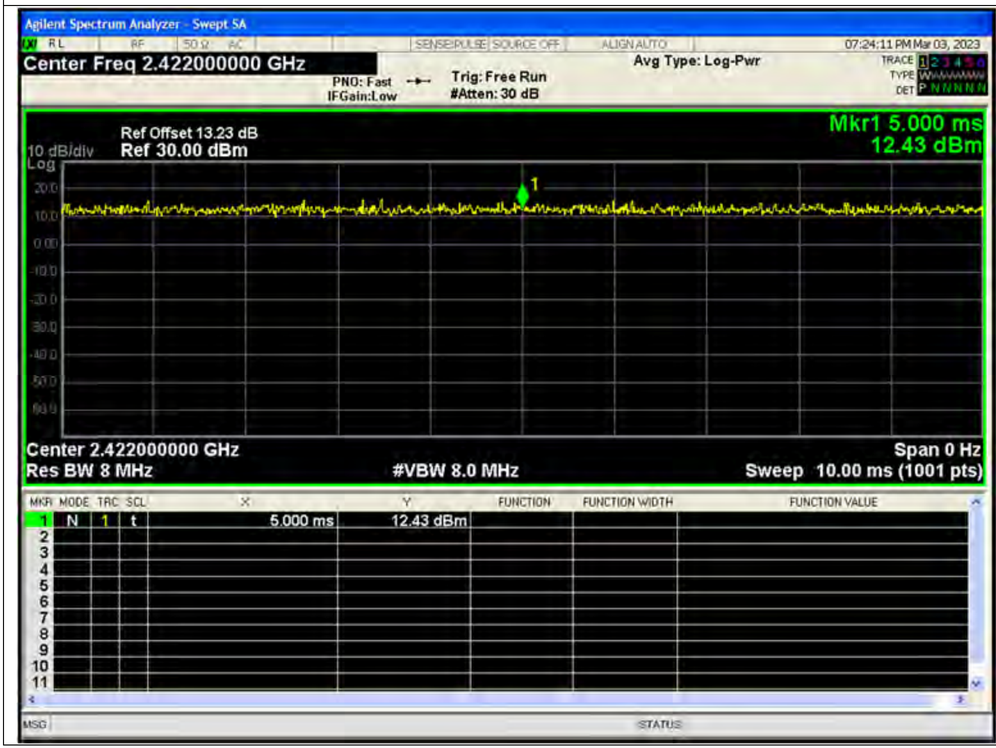
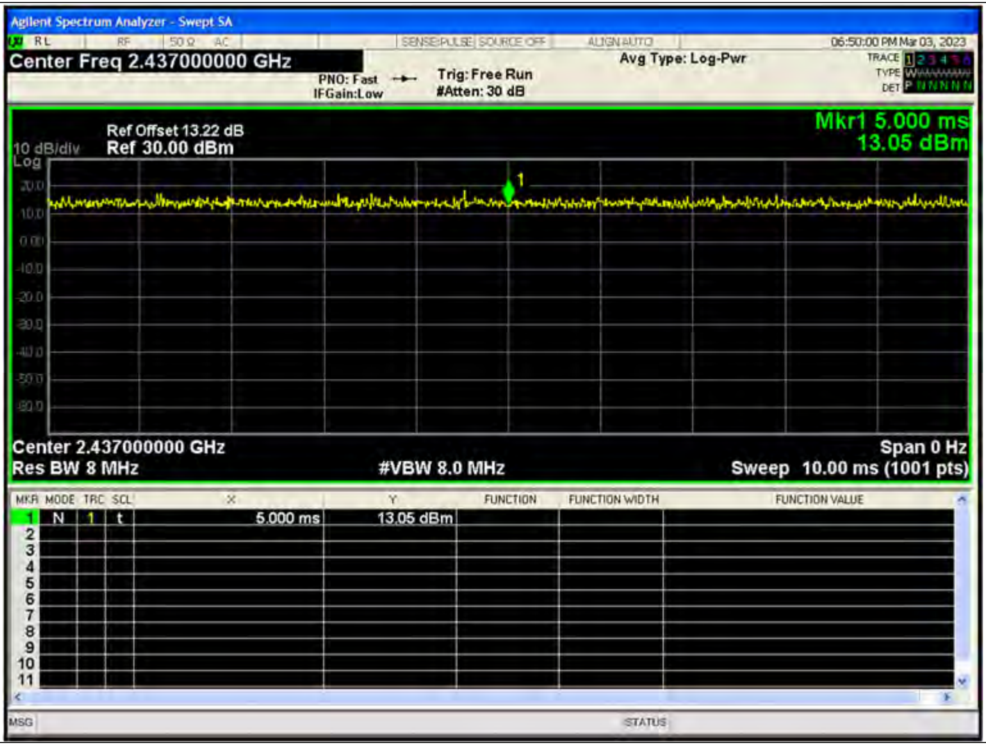
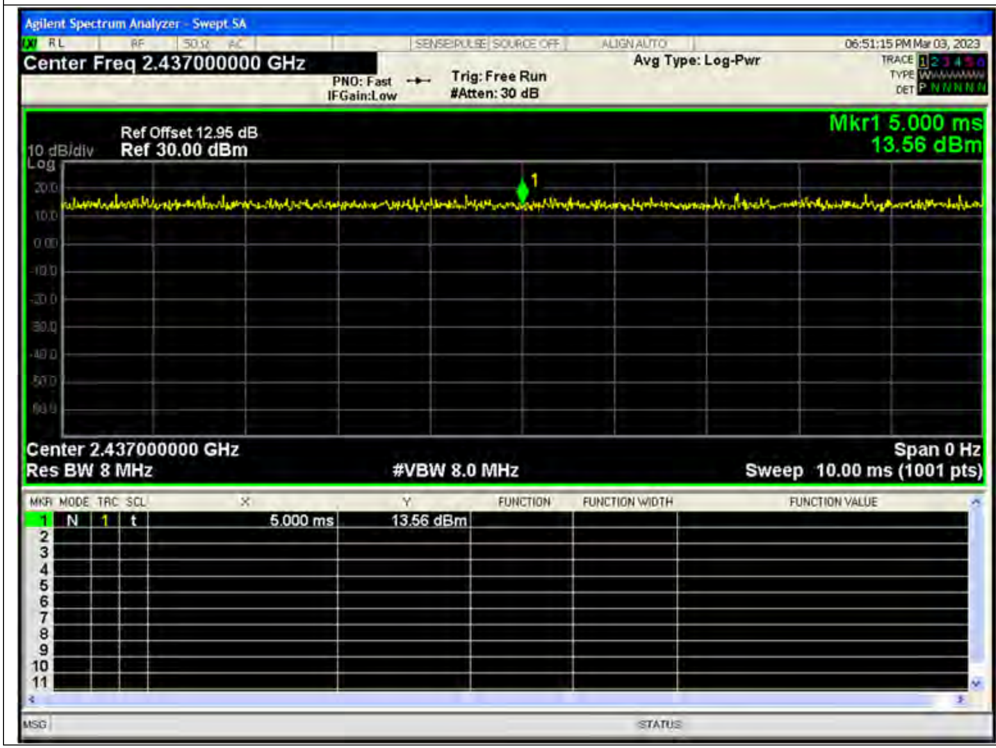


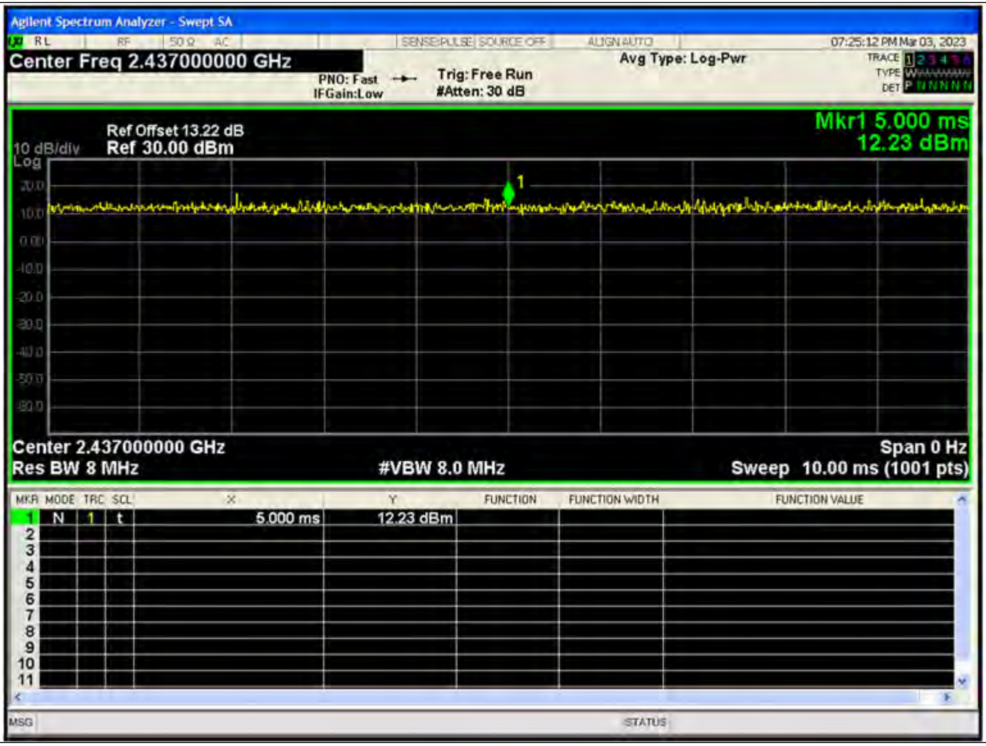
Duty Cycle NVNT n40 2437MHz Ant1



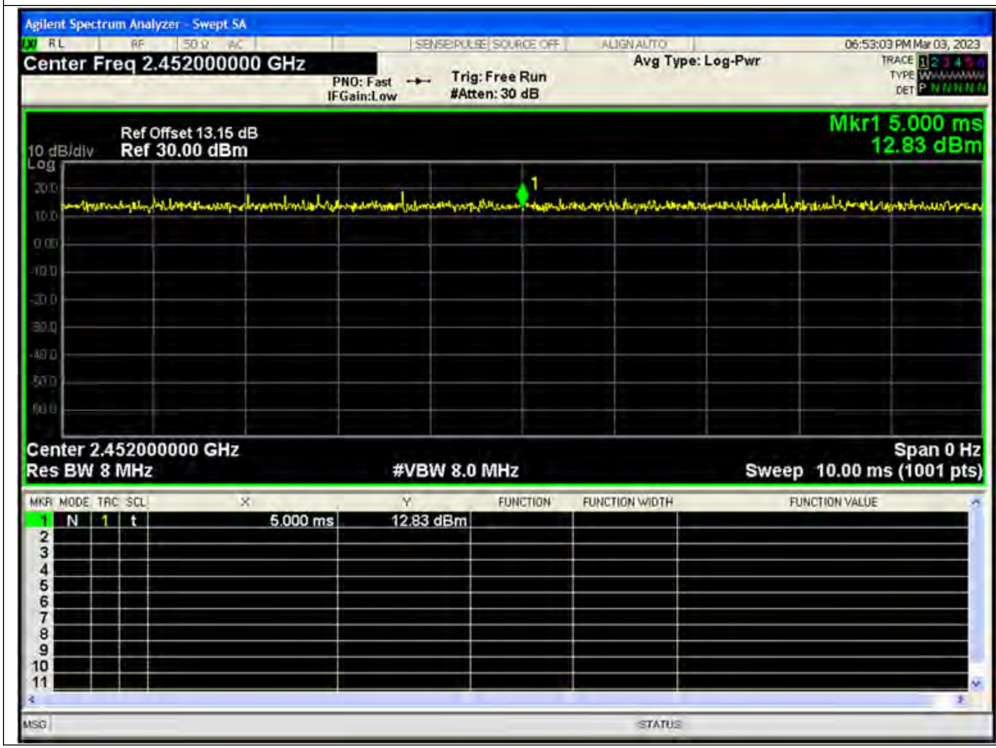
Duty Cycle NVNT n40 2437MHz Ant2



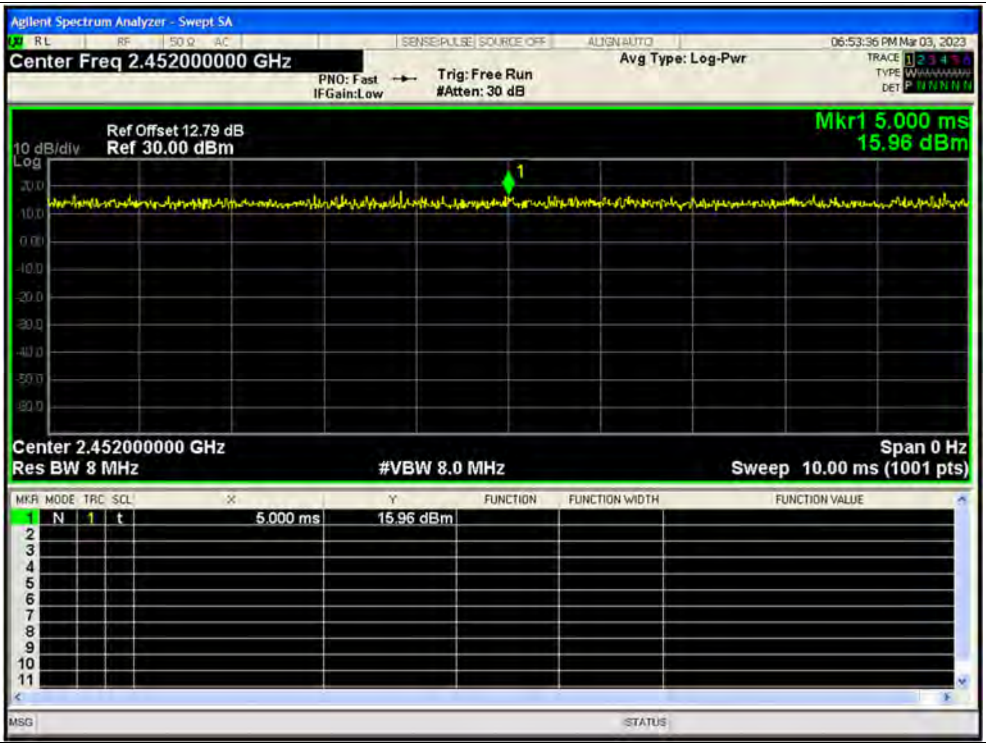
Duty Cycle NVNT n40 2437MHz Sum



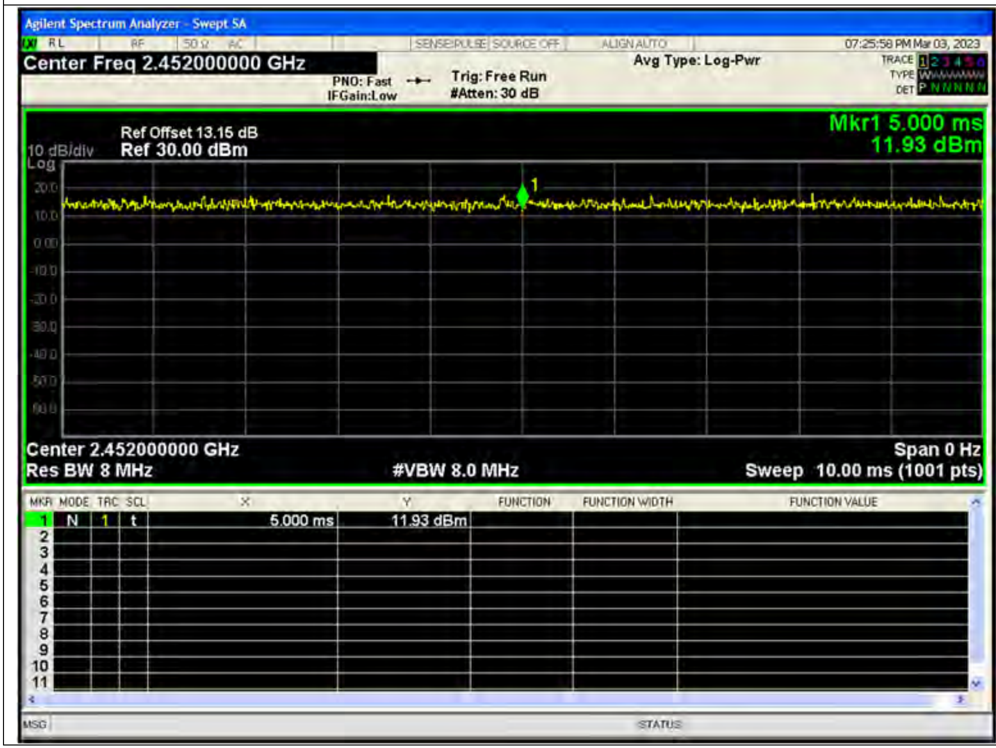
Duty Cycle NVNT n40 2452MHz Ant1



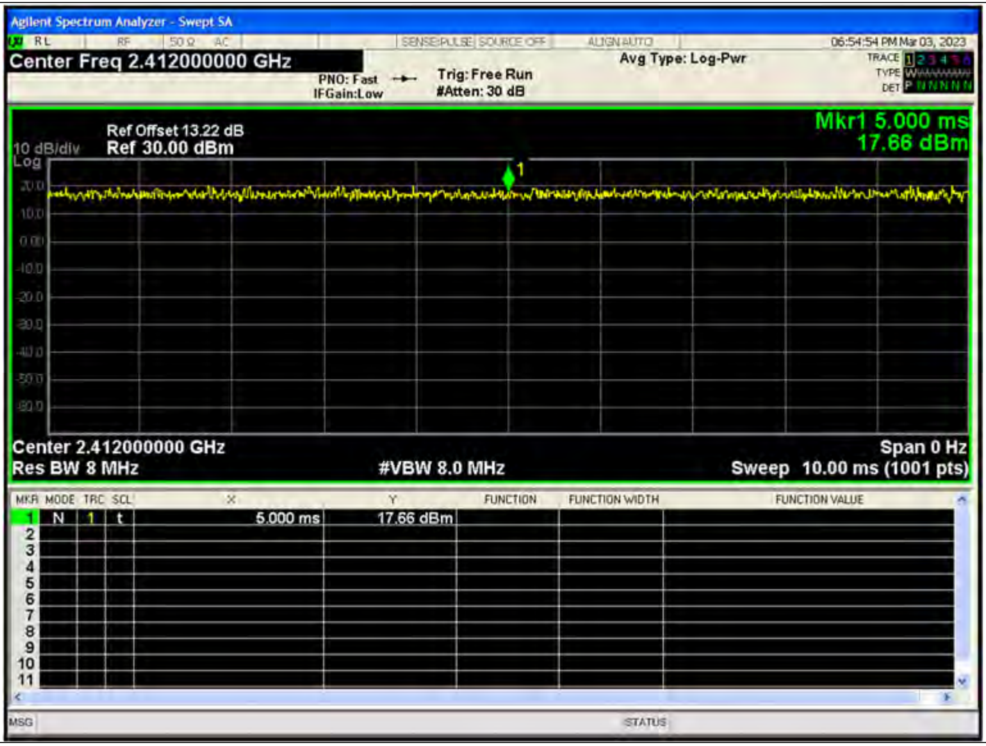
Duty Cycle NVNT n40 2452MHz Ant2



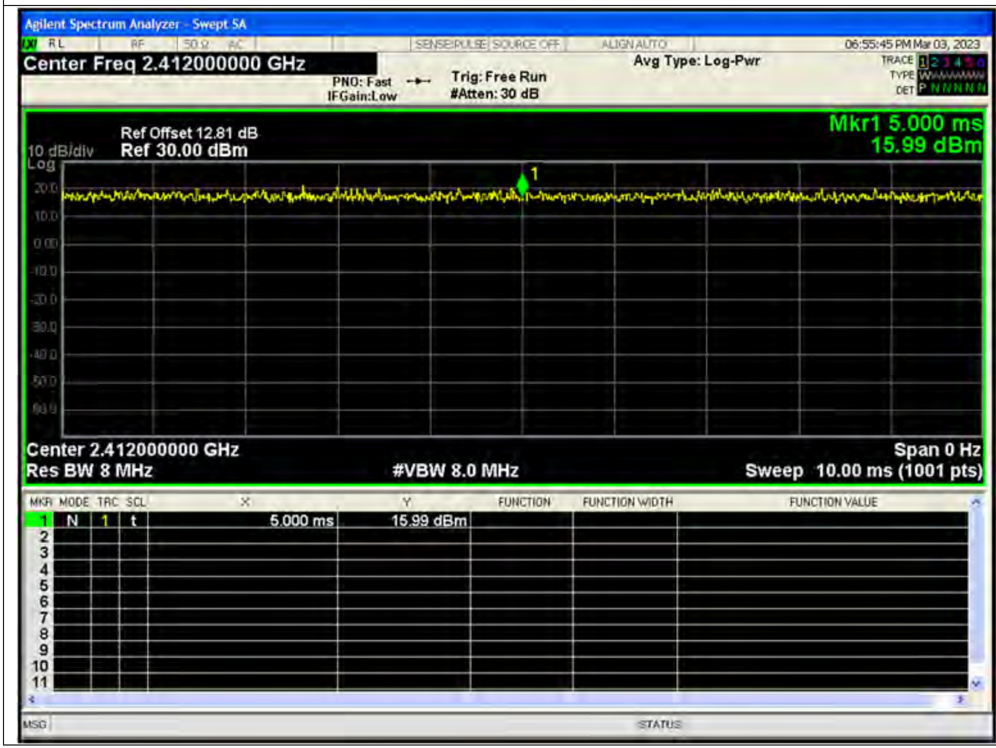
Duty Cycle NVNT n40 2452MHz Sum



Duty Cycle NVNT ax20 2412MHz Ant1



Duty Cycle NVNT ax20 2412MHz Ant2



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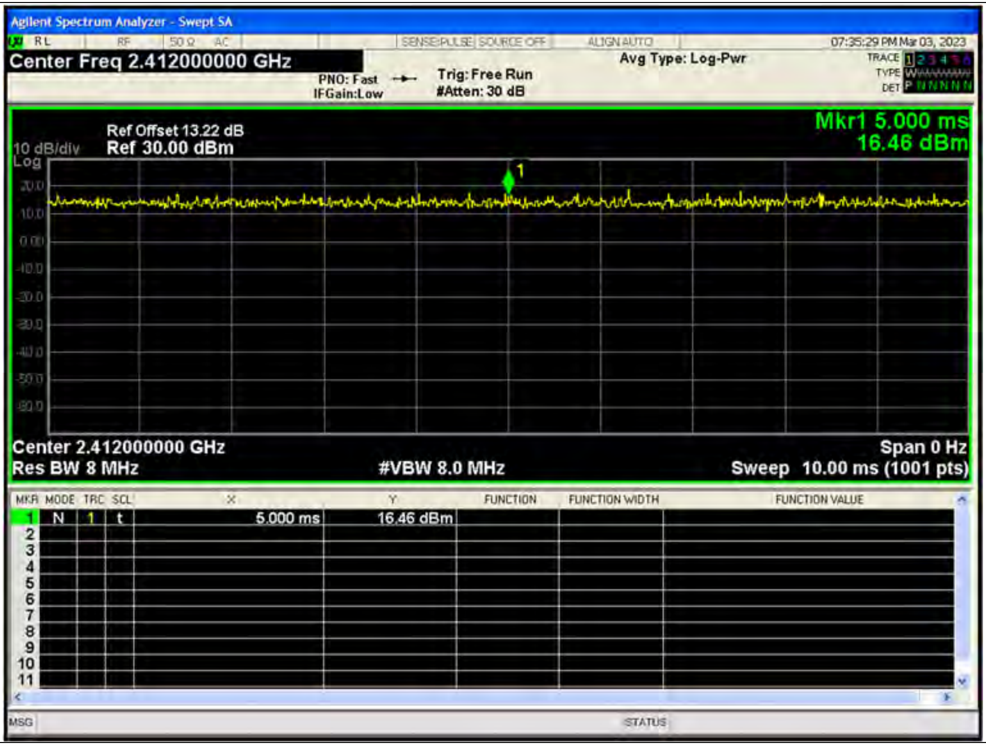
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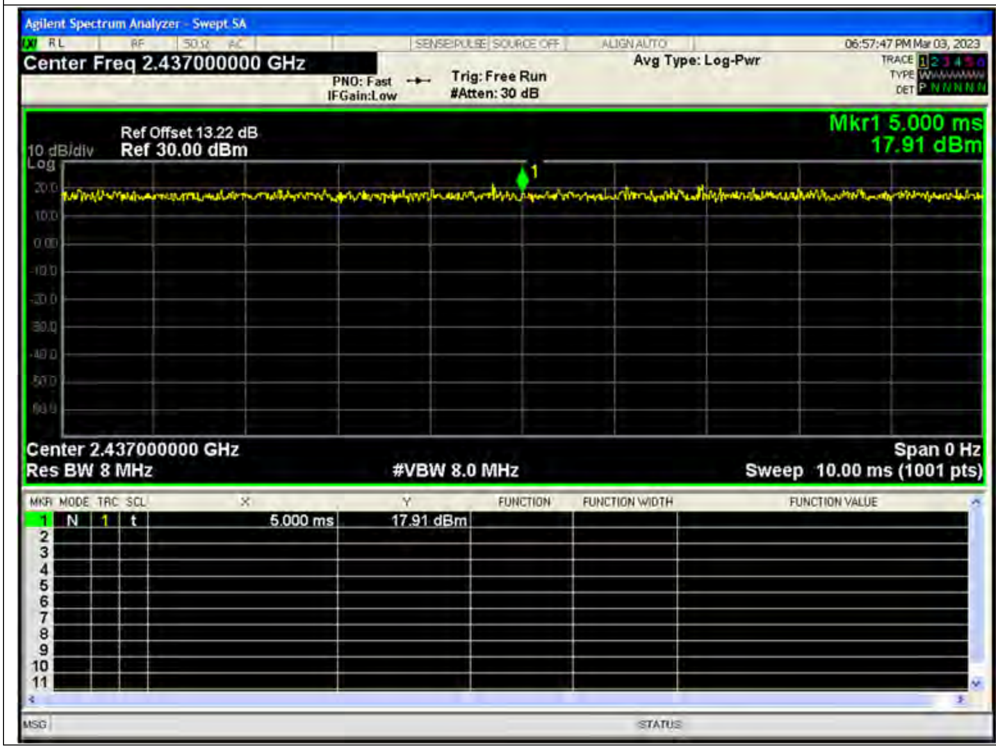

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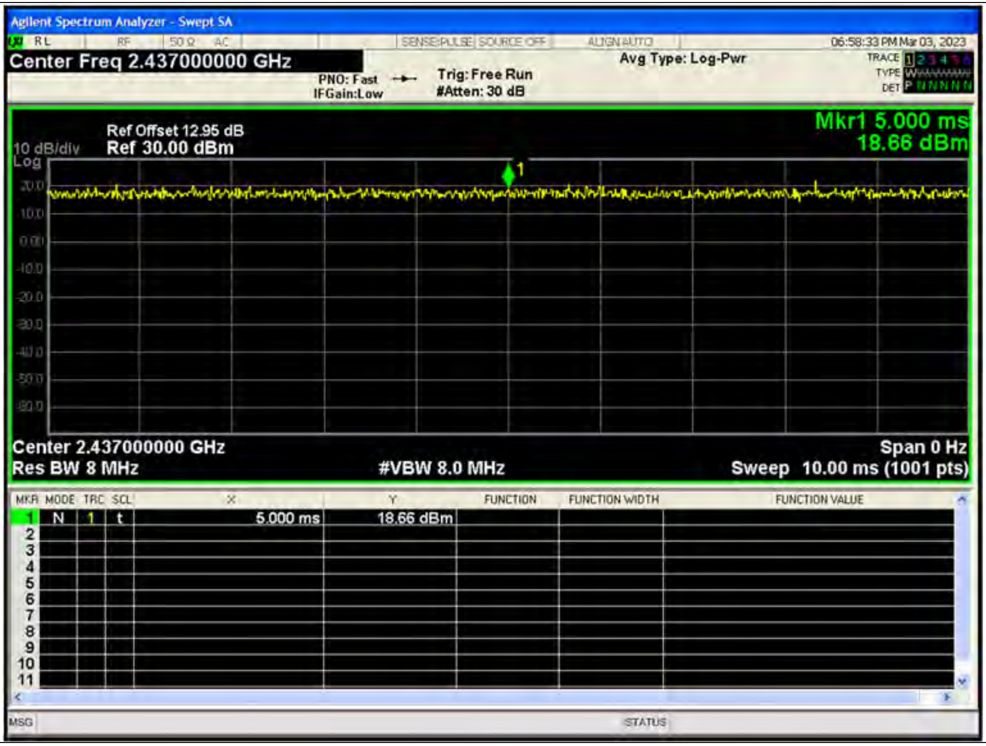

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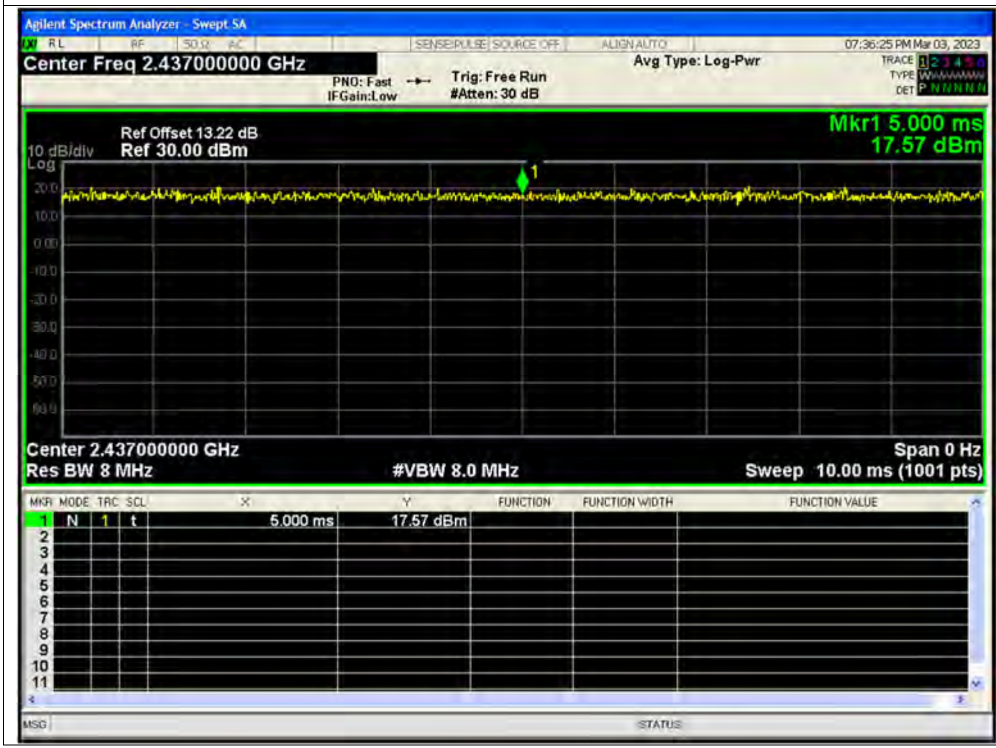

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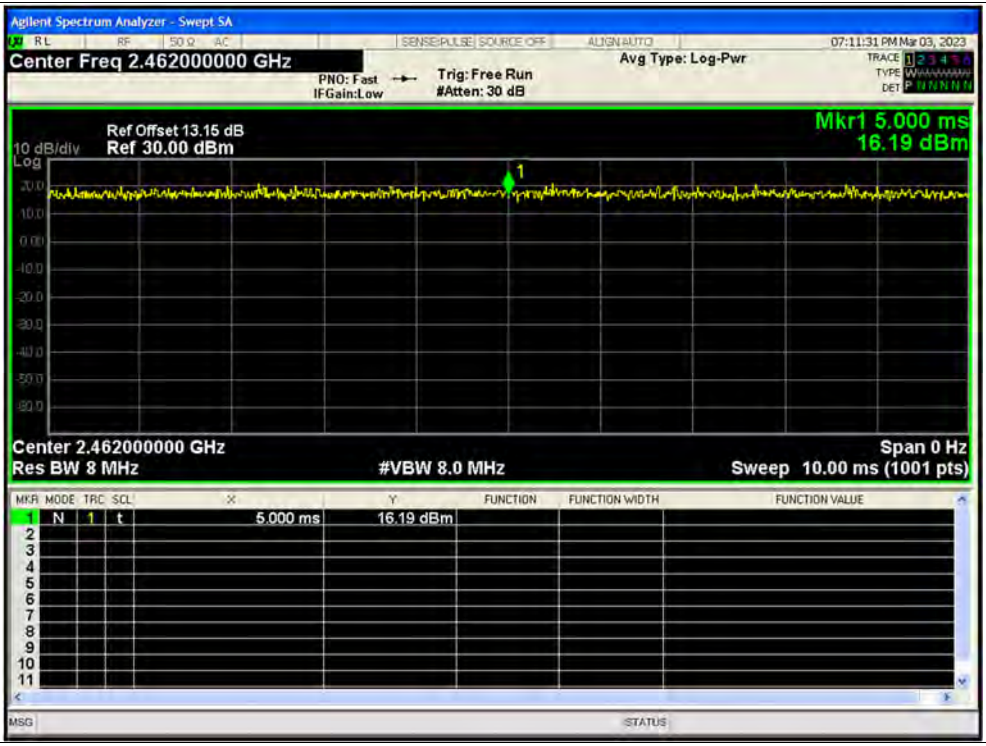
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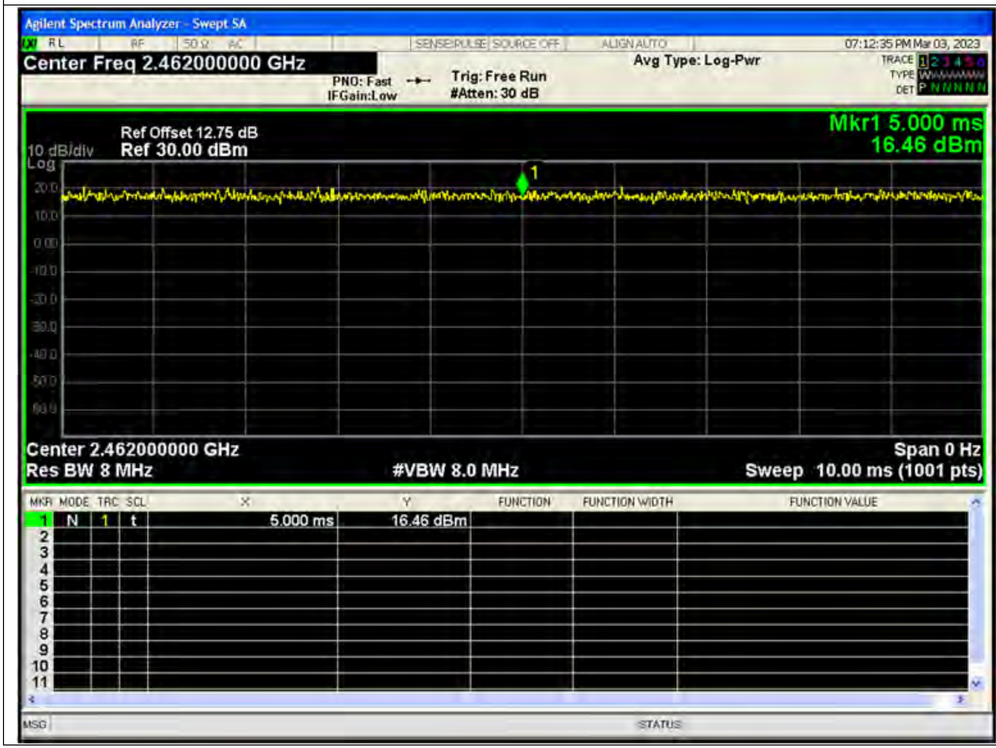
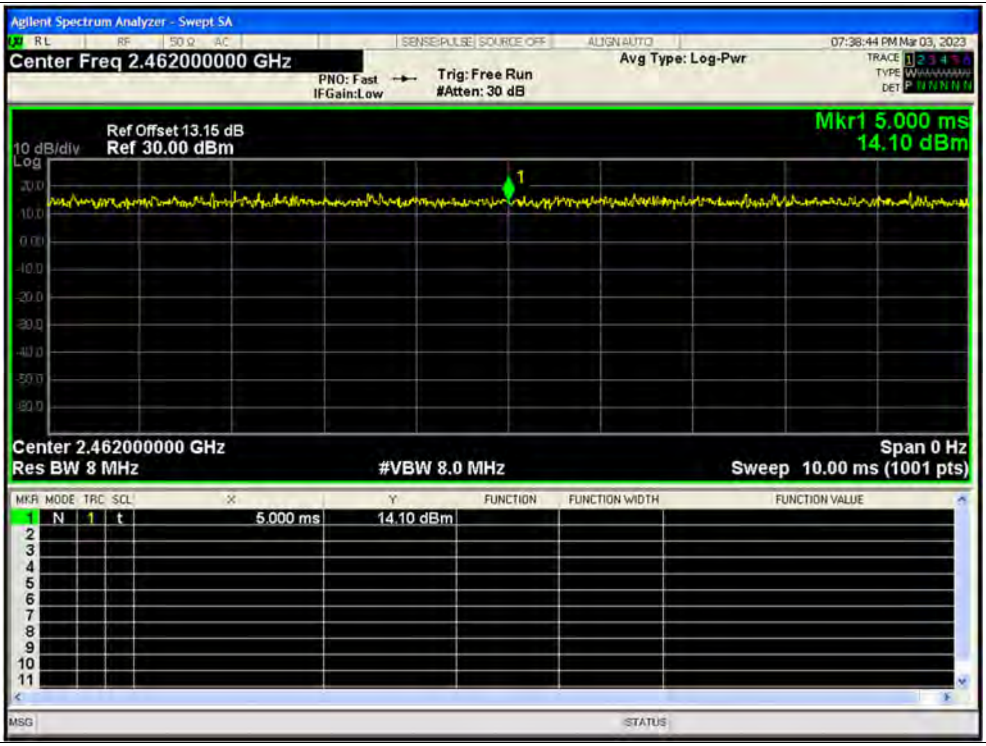
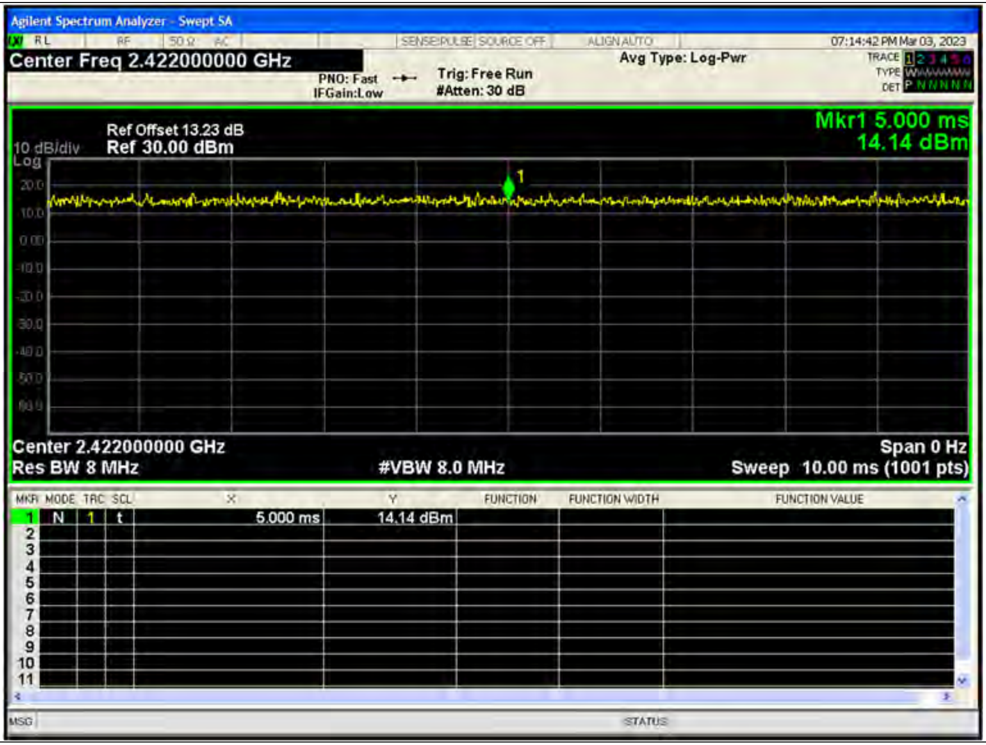


Duty Cycle NVNT ax20 2462MHz Sum



Duty Cycle NVNT ax40 2422MHz Ant1



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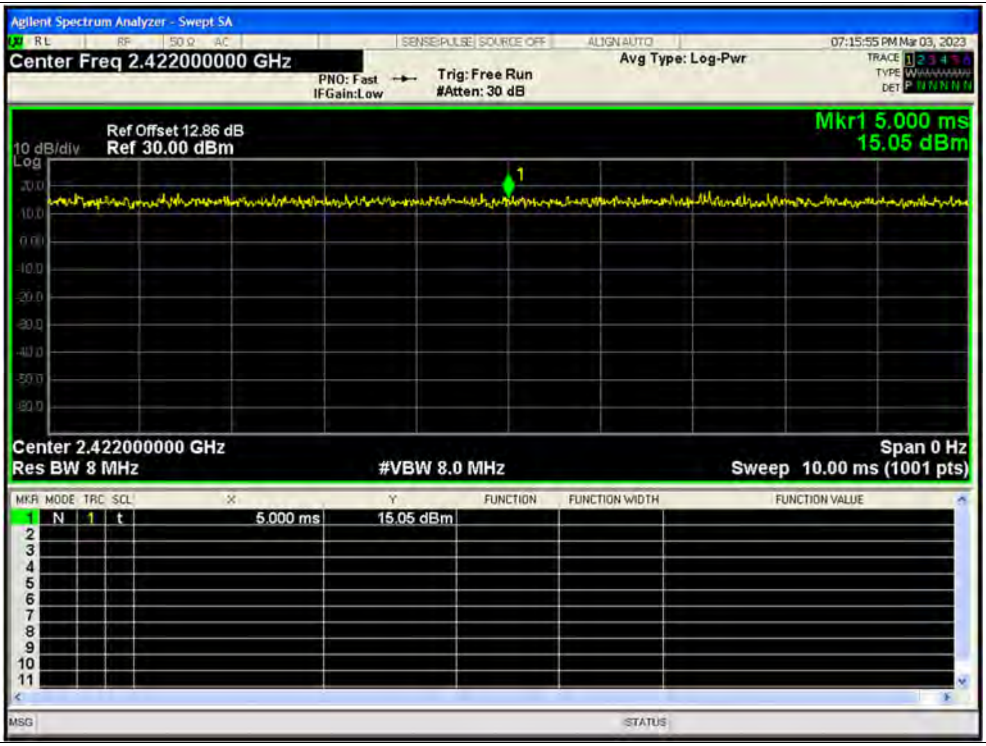

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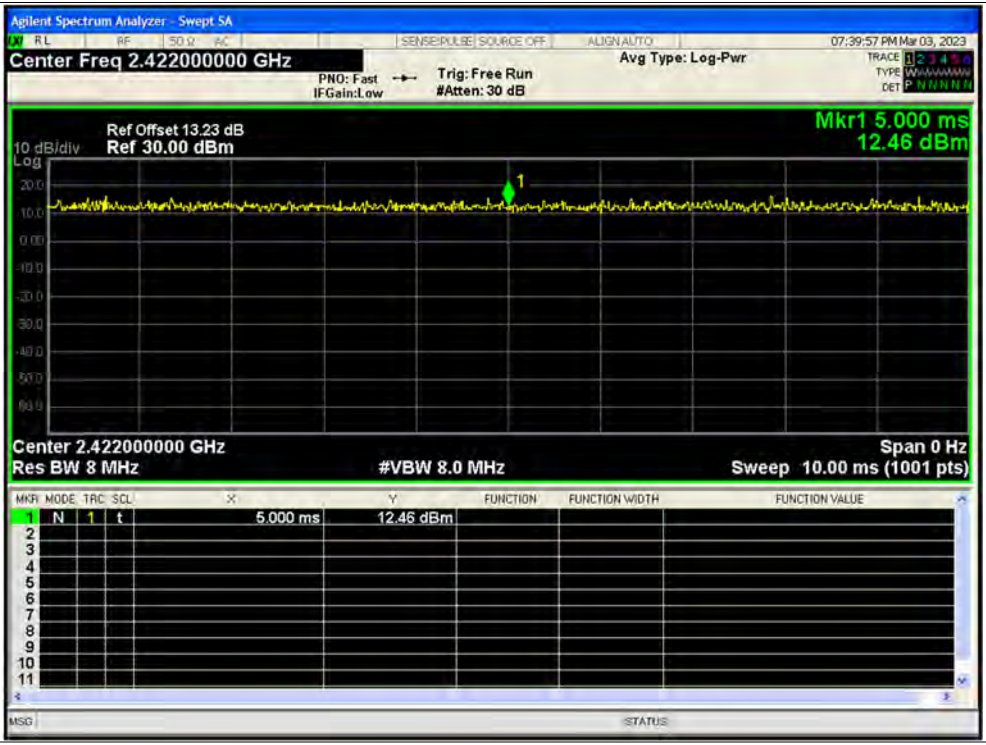

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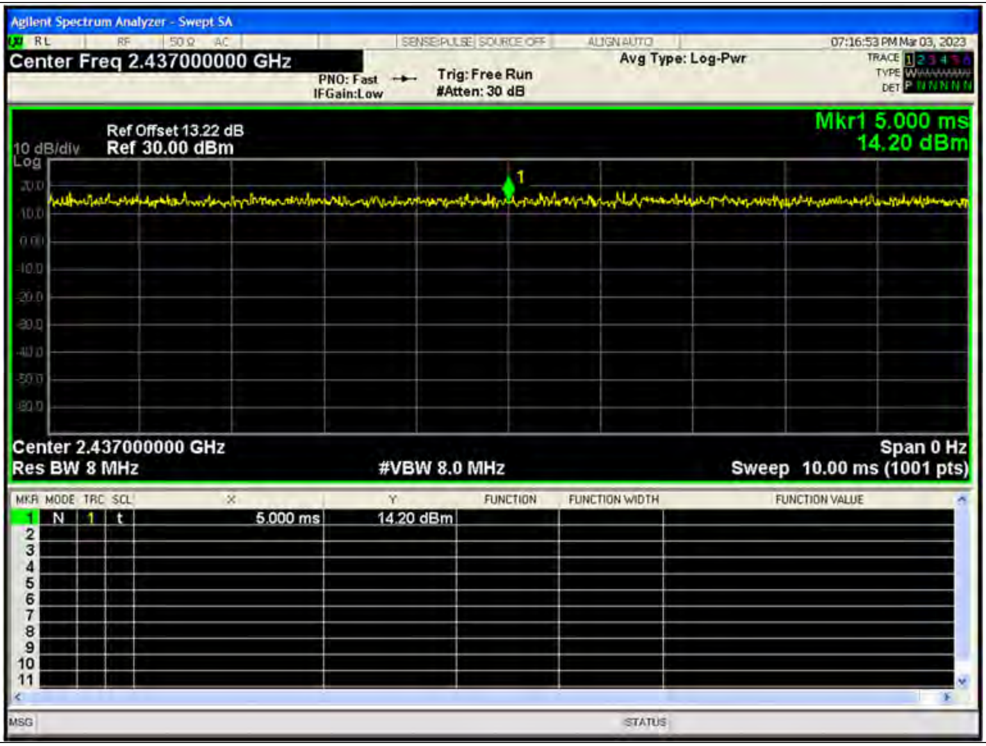
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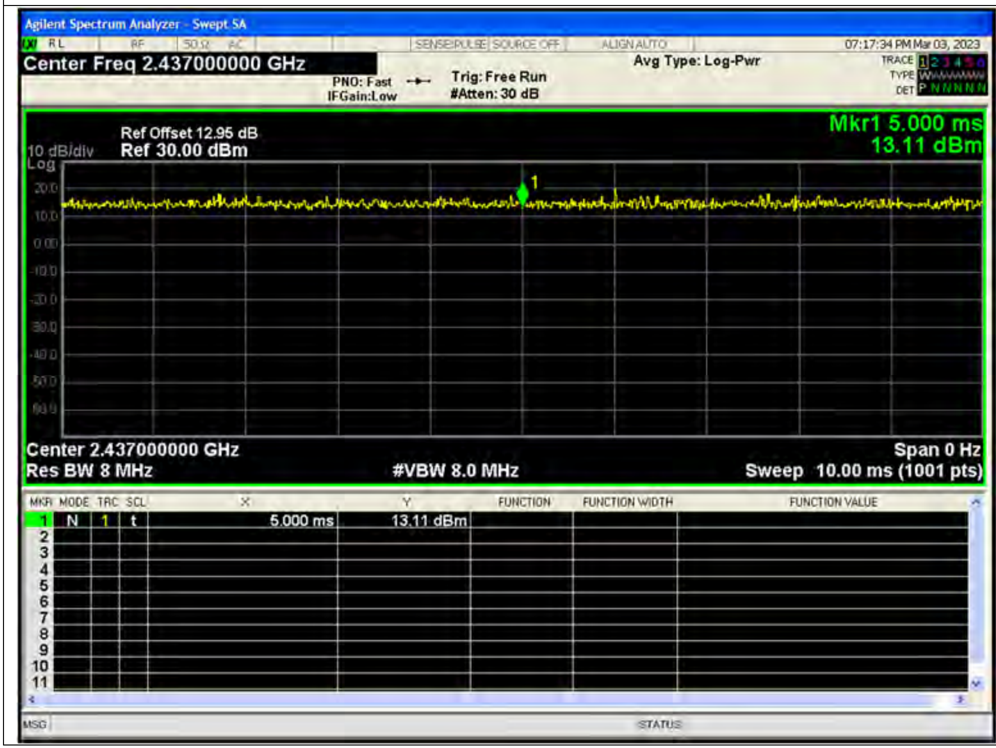

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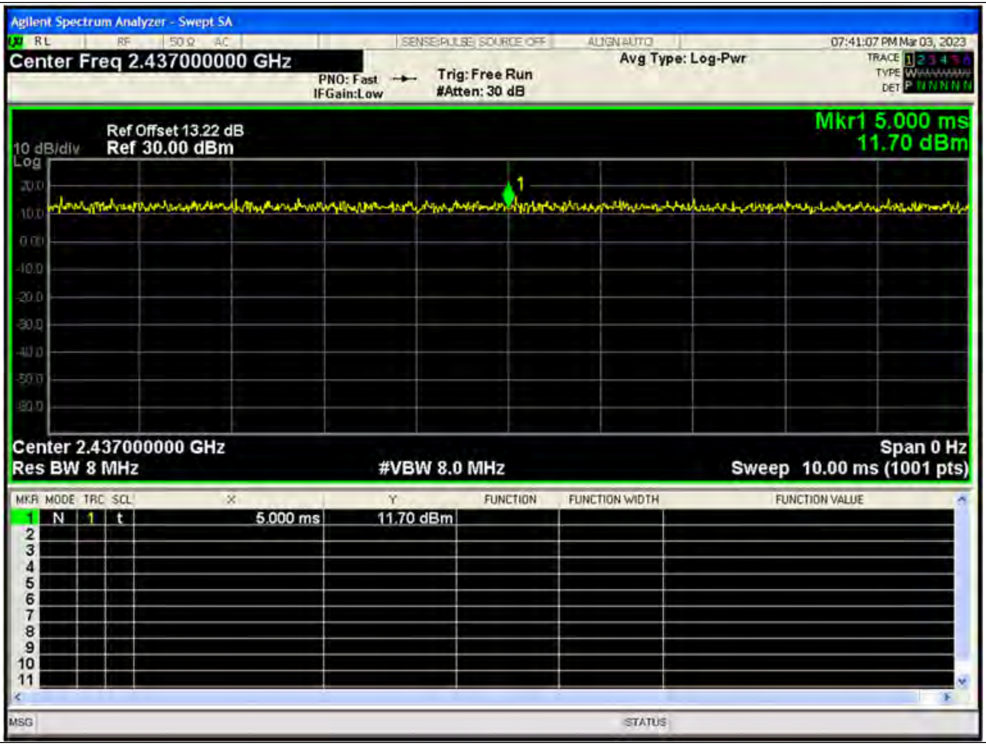

Duty Cycle NVNT ax40 2452MHz Ant1