RF TEST REPORT

For

Tianchang Aolaqi Technology Co.,Ltd
Product Name: Automatic Pet Feeder
Test Model(s): MT02

Report Reference No.	:	**DACE260313001RF001**
FCC ID	:	**2BVBZ-MT02**
Applicant's Name	:	Tianchang Aolaqi Technology Co.,Ltd
Address	:	No. 2 Fumin Road, Shiliang Town, Tianchang City, Anhui Province, China.
Testing Laboratory	:	Shenzhen DACE Testing Technology Co., Ltd.
Address	:	102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Test Specification Standard	:	**47 CFR Part 15.247**
Date of Receipt	:	March 13, 2026
Date of Test	:	March 13, 2026 to March 18, 2026
Date of Issue	:	March 18, 2026
Result	:	**Pass**

Apply for company information

Applicant's Name	:	Tianchang Aolaqi Technology Co.,Ltd
Address	:	No. 2 Fumin Road, Shiliang Town, Tianchang City, Anhui Province, China.
Product Name	:	Automatic Pet Feeder
Test Model(s)	:	MT02
Series Model(s)	:	N/A
Test Specification Standard(s)	:	47 CFR Part 15.247

NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Compiled by:	Supervised by:	Approved by:
Lucy Mo / Test Engineer	Ben Tang / Project Engineer	Machael Mo / Manager
March 18, 2026	March 18, 2026	March 18, 2026

Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	DACE260313001RF001	March 18, 2026

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1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

1.2 Summary of Test Result

Item	Standard	Method	Requirement	Result
Antenna requirement	47 CFR Part 15.247	---	47 CFR 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.247	ANSI C63.10-2020 section 6.2	47 CFR 15.207(a)	Pass
6dB Bandwidth	47 CFR Part 15.247	ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(2)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	ANSI C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(b)(3)	Pass
Power Spectral Density	47 CFR Part 15.247	ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(e)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d)	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	ANSI C63.10-2020 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.247	ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.247	ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass

2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : Tianchang Aolaqi Technology Co.,Ltd
Address : No. 2 Fumin Road, Shiliang Town, Tianchang City, Anhui Province, China.

Manufacturer : Tianchang Aolaqi Technology Co.,Ltd
Address : No. 2 Fumin Road, Shiliang Town, Tianchang City, Anhui Province, China.

2.2 Description of Device (EUT)

Product Name:	Automatic Pet Feeder
Model/Type reference:	MT02
Series Model:	N/A
Trade Mark:	MYGODPET
Power Supply:	DC 5V/1A from adapter Battery:DC6V
Power Adaptor:	MODEL:TPA-46B050100UU INPUT:100-240V~50/60Hz 0.2A OUTPUT:DC5V/1A
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz; 802.11n(HT40): 2422MHz to 2452MHz
Number of Channels:	802.11b/g/n(HT20): 11 Channels; 802.11n(HT40): 7 Channels
Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK); 802.11g: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n(HT20 and HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM)
Antenna Type:	PCB
Antenna Gain:	0.58dBi
Hardware Version:	V1.0
Software Version:	V1.0

Remark:The Antenna Gain is supplied by the customer.DACE is not responsible for this data and the related calculations associated with it

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	**Frequency (MHz)**
	802.11b/802.11g/802.11n(HT20)
Lowest channel	2412MHz
Middle channel	2437MHz

Highest channel	2462MHz
Test channel	802.11n(HT40)
Lowest channel	2422MHz
Middle channel	2437MHz
Highest channel	2452MHz

2.3 Description of Test Modes

No	Title	Description
TM1	802.11b mode	Keep the EUT in 802.11b transmitting mode at lowest, middle and highest channel.
TM2	802.11g mode	Keep the EUT in 802.11g transmitting mode at lowest, middle and highest channel.
TM3	802.11n(HT20) mode	Keep the EUT in 802.11n(HT20) transmitting mode at lowest, middle and highest channel.
TM4	802.11n(HT40) mode	Keep the EUT in 802.11n(HT40) transmitting mode at lowest, middle and highest channel.
Remark:Only the data of the worst mode would be recorded in this report.		

2.4 Description of Support Units

Title	Manufacturer	Model No.	Serial No.
Battery	/	AAA (1.5V)	/

2.5 Equipments Used During The Test

Conducted Emission at AC power line					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Power absorbing clamp	SCHWARZ BECK	MESS-ELEKTRONIK	/	2025-04-23	2026-04-22
Electric Network	SCHWARZ BECK	CAT5 8158	CAT5 8158#207	2025-04-18	2026-04-17
Cable	SCHWARZ BECK	/	/	2025-04-18	2026-04-17
Pulse Limiter	SCHWARZ BECK	VTSD 9561-F Pulse limiter 10dB Attenuation	561-G071	2025-12-02	2026-12-01
Test Receiver	Rohde & Schwarz	ESPI TEST RECEIVER	1164.6607K03 -102109-MH	2025-04-25	2026-04-24
L.I.S.N	R&S	ESH3-Z5	831.5518.52	2025-04-18	2026-04-17
L.I.S.N	SCHWARZ BECK	NSLK 8126	05055	2025-04-18	2026-04-17
Pulse Limiter	CYBERTEK	EM5010A	/	2025-04-25	2026-04-24
EMI test software	EZ -EMC	EZ	V1.1.42	/	/

6dB Bandwidth **Maximum Conducted Output Power** **Power Spectral Density** **Emissions in non-restricted frequency bands**					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
RF Test Software	Tachoy Information Technology(shenzhen) Co.,Ltd.	RTS-01	V1.0.0	/	/
Power divider	MIDEWEST	PWD-2533	SMA-79	2025-04-18	2026-05-10
RF Sensor Unit	Tachoy Information Technology(shenzhen) Co.,Ltd.	TR1029-2	000001	/	/
Wideband radio communication tester	R&S	CMW500	113410	2025-04-25	2026-04-24
Vector Signal Generator	Keysight	N5181A	MY50143455	2025-12-02	2026-12-01
Signal Generator	Keysight	N5182A	MY48180415	2025-12-02	2026-12-01
Spectrum Analyzer	Keysight	N9020A	MY53420323	2025-12-02	2026-12-01
Power meter	Agilent	E4416	MY48200166	2025-12-06	2026-12-05

Band edge emissions (Radiated)
Emissions in frequency bands (below 1GHz)
Emissions in frequency bands (above 1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test software	Farad	EZ -EMC	V1.1.42	/	/
Positioning Controller	MF	MF-7802	/	/	/
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2024-04-26	2027-04-25
Horn antenna	COM-POWER	AH-1840 (18-40G)	10100008	2024-04-26	2027-04-25
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2025-04-28	2026-04-27
Cable(LF)#2	Schwarzbeck	/	/	2025-04-12	2026-04-11
Cable(LF)#1	Schwarzbeck	/	/	2025-04-17	2026-04-16
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2025-04-25	2026-04-24
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	/	2025-04-25	2026-04-24
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2025-04-29	2026-04-28
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2025-04-29	2026-04-28
Wideband radio communication tester	R&S	CMW500	113410	2025-04-25	2026-04-24
Spectrum Analyzer	R&S	FSP30	1321.3008K40 -101729-jR	2025-04-18	2026-04-17
Test Receiver	R&S	ESCI 3	1166.5950K03 -101431-Jq	2025-04-18	2026-04-17
Horn Antenna	Sunol Sciences	DRH-118	A091114	2025-04-21	2026-04-20
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2024-09-28	2026-09-27

2.6 Statement Of The Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Disturbance (0.15~30MHz)	±3.41dB
Occupied Bandwidth	±3.63%
RF conducted power	±0.733dB
RF power density	±0.234%
Conducted Spurious emissions	±1.98dB
Radiated Emission (Above 1GHz)	±5.46dB
Radiated Emission (Below 1GHz)	±5.79dB
Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

2.7 Identification of Testing Laboratory

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.
Address:	102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252

Identification of the Responsible Testing Location

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.
Address:	102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252
Designation Number:	CN1342
Test Firm Registration Number:	778666
A2LA Certificate Number:	6270.01

2.8 Announcement

(1) The test report reference to the report template version v0.

(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.

(3) The test report is invalid if there is any evidence and/or falsification.

(4) This document may not be altered or revised in any way unless done so by DACE and all revisions are duly noted in the revisions section.

(5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

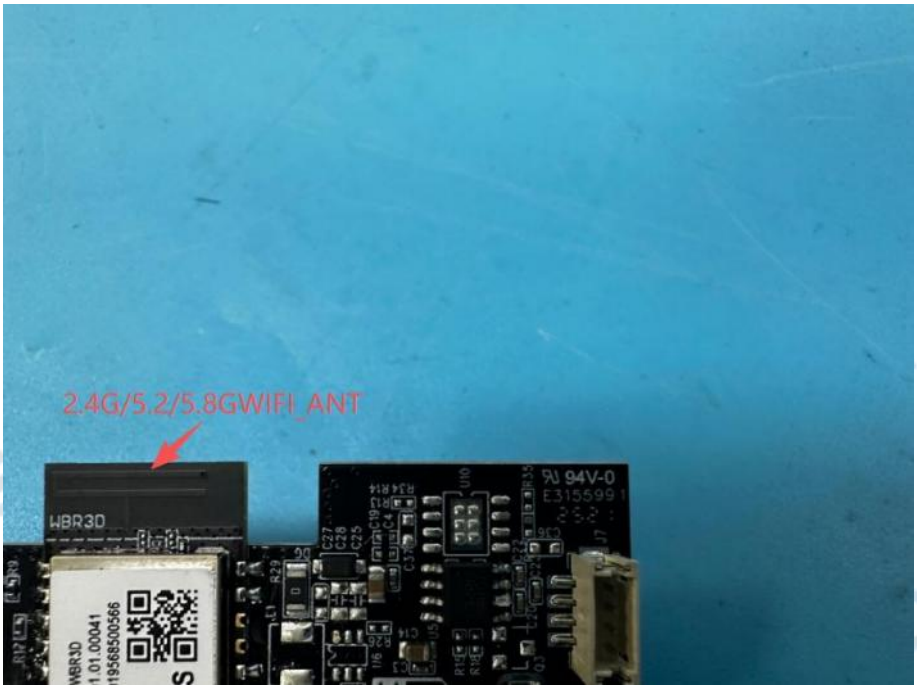
(6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

3 Evaluation Results (Evaluation)

3.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 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.
Test Method:	---

3.1.1 Conclusion:



4 Radio Spectrum Matter Test Results (RF)

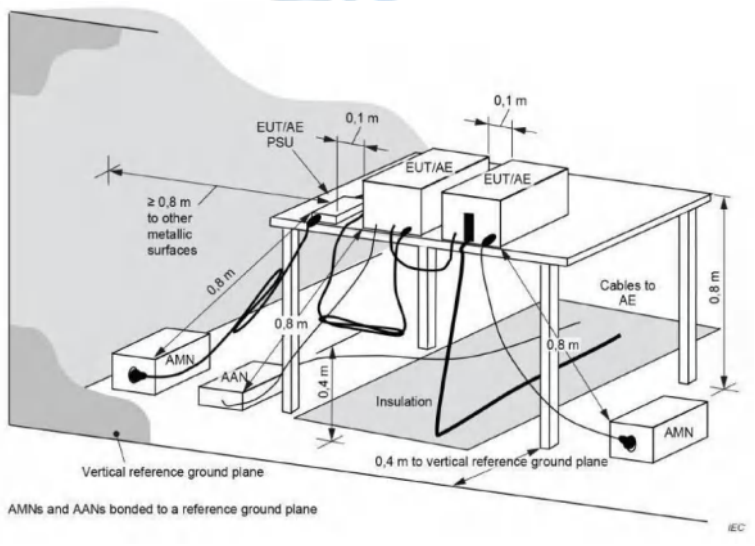
4.1 Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, 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 or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN).
Test Limit:	Frequency of emission (MHz) / Conducted limit (dBμV): Quasi-peak / Average 0.15-0.5: 66 to 56* / 56 to 46* 0.5-5: 56 / 46 5-30: 60 / 50 *Decreases with the logarithm of the frequency.
Test Method:	ANSI C63.10-2020 section 6.2
Procedure:	Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices

4.1.1 E.U.T. Operation:

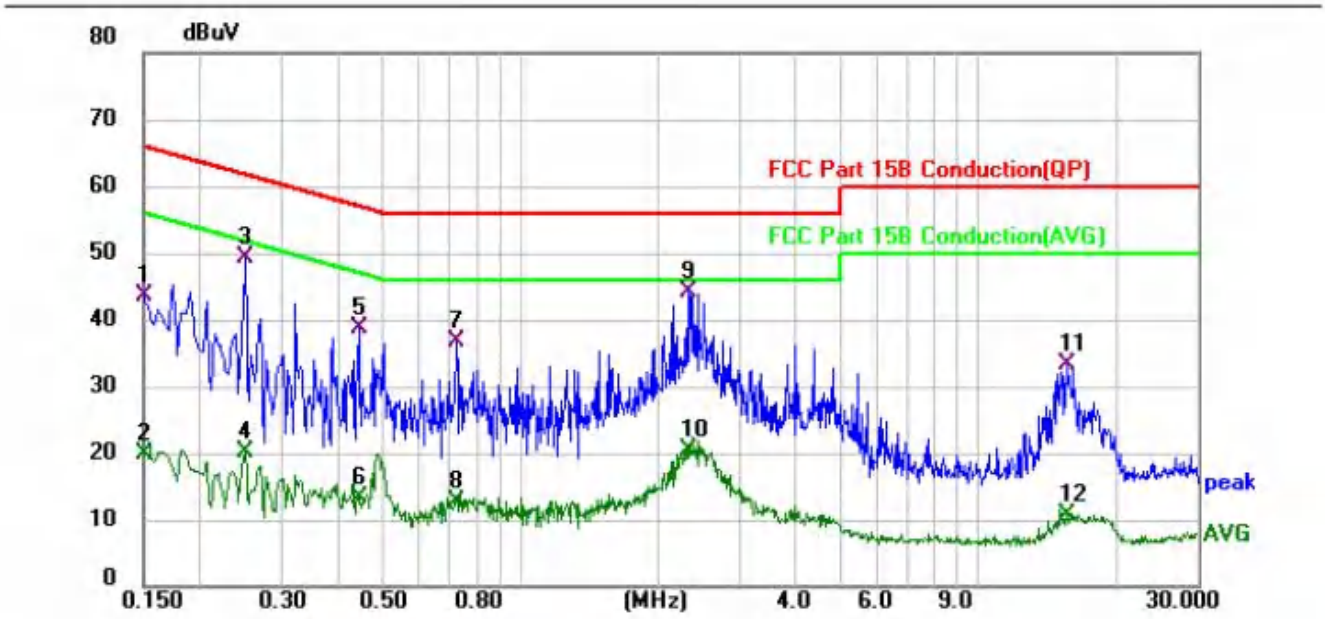
Operating Environment:					
Temperature:	22.1 °C	Humidity:	53 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

4.1.2 Test Setup Diagram:



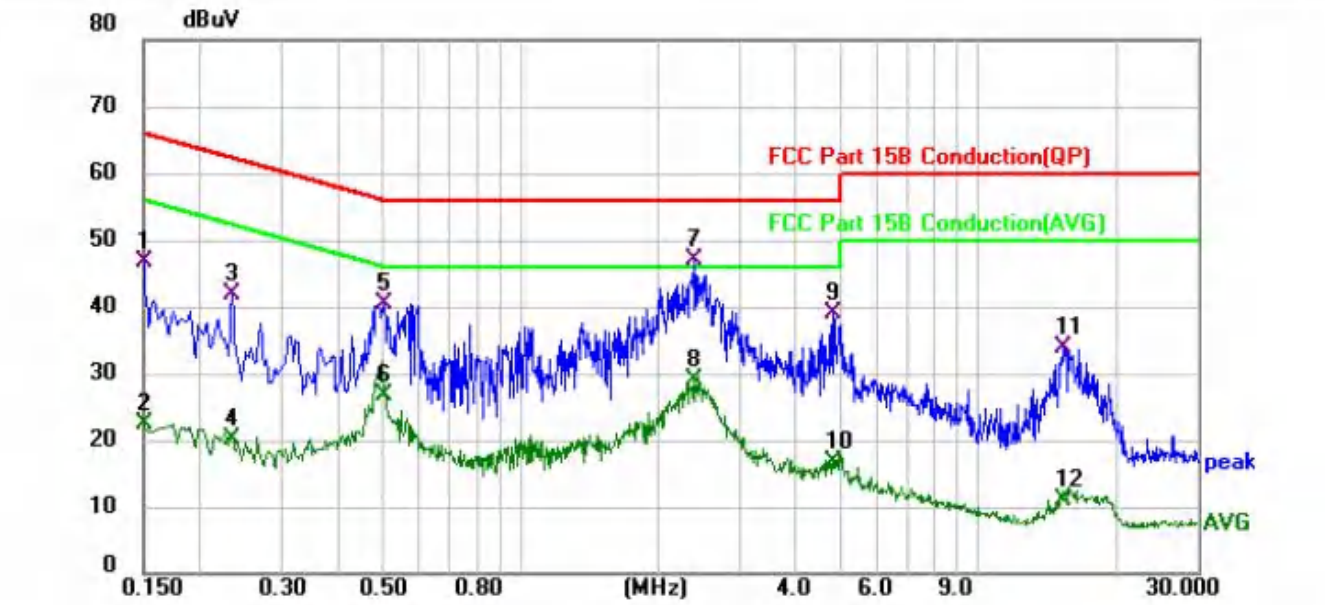
4.1.3 Test Data:

TM1 / Line: Line / Band: 2400-2483.5 MHz / BW: 20 / CH: L



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	33.56	10.08	43.64	66.00	-22.36	QP	
2		0.1500	9.69	10.08	19.77	56.00	-36.23	AVG	
3		0.2500	39.31	10.08	49.39	61.76	-12.37	QP	
4		0.2500	10.16	10.08	20.24	51.76	-31.52	AVG	
5		0.4420	28.64	10.08	38.72	57.02	-18.30	QP	
6		0.4420	3.07	10.08	13.15	47.02	-33.87	AVG	
7		0.7260	26.69	10.09	36.78	56.00	-19.22	QP	
8		0.7260	2.75	10.09	12.84	46.00	-33.16	AVG	
9	*	2.3300	33.99	10.02	44.01	56.00	-11.99	QP	
10		2.3300	10.49	10.02	20.51	46.00	-25.49	AVG	
11		15.6620	22.93	10.49	33.42	60.00	-26.58	QP	
12		15.6620	0.20	10.49	10.69	50.00	-39.31	AVG	

TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 20 / CH: L



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	36.61	10.08	46.69	66.00	-19.31	QP	
2		0.1500	12.26	10.08	22.34	56.00	-33.66	AVG	
3		0.2340	31.79	10.08	41.87	62.31	-20.44	QP	
4		0.2340	10.15	10.08	20.23	52.31	-32.08	AVG	
5		0.5060	30.29	10.09	40.38	56.00	-15.62	QP	
6		0.5060	16.65	10.09	26.74	46.00	-19.26	AVG	
7	*	2.3940	37.02	10.02	47.04	56.00	-8.96	QP	
8		2.3940	18.96	10.02	28.98	46.00	-17.02	AVG	
9		4.8420	28.73	10.19	38.92	56.00	-17.08	QP	
10		4.8420	6.63	10.19	16.82	46.00	-29.18	AVG	
11		15.2300	23.50	10.48	33.98	60.00	-26.02	QP	
12		15.2300	0.51	10.48	10.99	50.00	-39.01	AVG	

NOTE:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Measurement Level = Reading level + Correct Factor, Over=Limit- Measurement

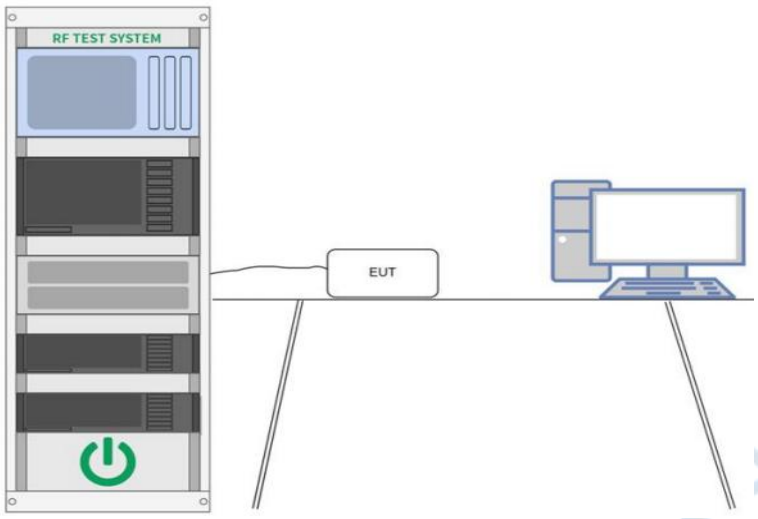
4.2 6dB Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “−6 dB down amplitude”. If a marker is below this “−6 dB down amplitude” value, then it shall be as close as possible to this value. 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW ≥ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

4.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.2 °C	Humidity:	47 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.2.2 Test Setup Diagram:



4.2.3 Test Data:

Please Refer to Appendix for Details.

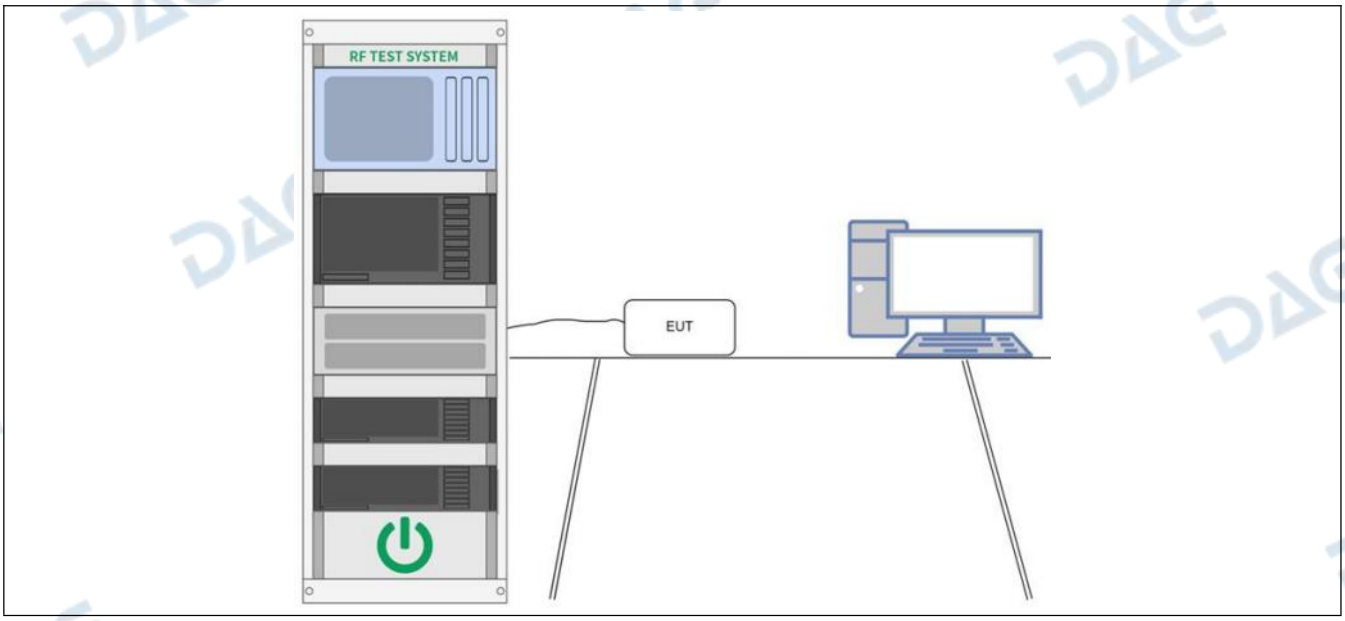
4.3 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power Note: Per ANSI C63.10-2020, if there are two or more antnnas, the conducted powers at Core 0, Core 1,…, Core i were first measured separately, as shown in the section above(this product olny have one antenna). The measured values were then summed in linear power units then converted back to dBm. Per ANSI C63.10-2020 Section 14.4.3.2.3, the directional gain is calculated using the following formula, where GN is the gain of the nth antenna and NANT, the total number of antennas used. For correlated unequal antenna gain Directional gain = 10*log[(10G1/20 + 10G2/20 + … + 10GN/20)2 / NANT] dBi For completely uncorrelated unequal antenna gain Directional gain = 10*log[(10G1/10 + 10G2/10 + … + 10GN/10)/ NANT] dBi Sample Multiple antennas Calculation: Core 0 + Core 1 +…Core i. = MIMO/CDD (i is the number of antennas) (#VALUE! mW + mW) = #VALUE! mW = dBm Sample e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted Power (dBm) + Ant gain (dBi)

4.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.9 °C	Humidity:	51 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.3.2 Test Setup Diagram:



4.3.3 Test Data:

Please Refer to Appendix for Details.

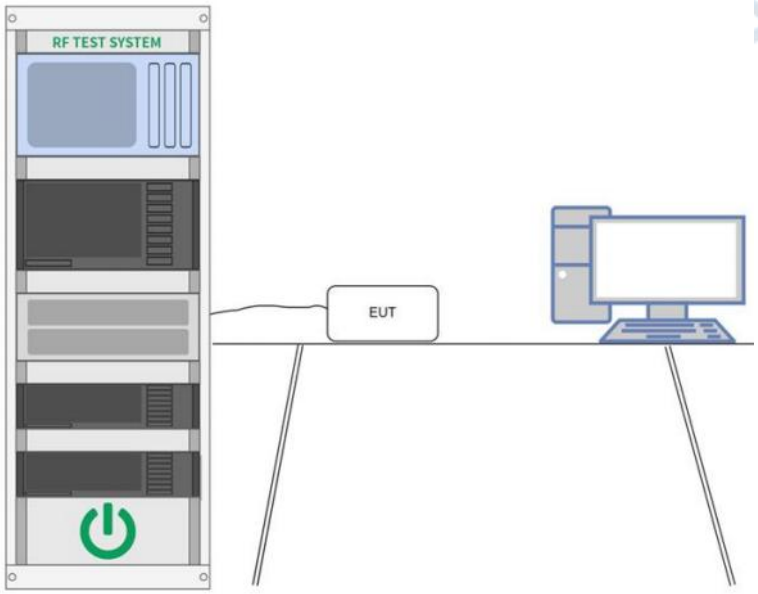
4.4 Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm 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.
Test Method:	ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020+Cor 1-2023, section 11.10, Maximum power spectral density level in the fundamental emission

4.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.8 °C	Humidity:	55 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.4.2 Test Setup Diagram:



4.4.3 Test Data:

Please Refer to Appendix for Details.

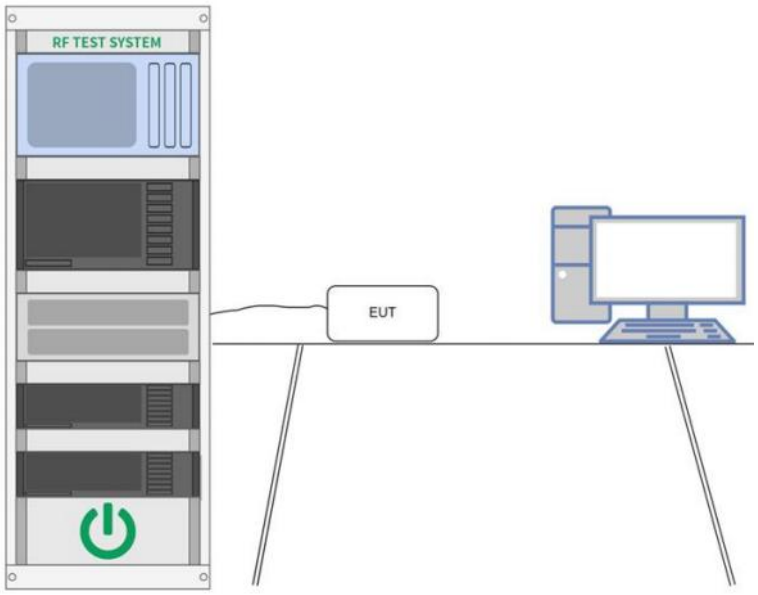
4.5 Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d)
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

4.5.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.8 °C	Humidity:	47 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.5.2 Test Setup Diagram:



4.5.3 Test Data:

Please Refer to Appendix for Details.

4.6 Band edge emissions (Radiated)

Test Requirement:	Refer to 47 CFR 15.247(d), 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)(see § 15.205(c)).
Test Limit:	

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
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

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.
In the emission table above, the tighter limit applies at the band edges.
The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

Test Method:	ANSI C63.10-2020 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 section 6.10.5.2

4.6.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22 °C	Humidity:	48 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.6.2 Test Data:

Polar	Frequency	Meter Reading	Cable Loss	Level	Limit (dBuV/m)	Margin	Detector Type	Result
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)		(dBuV/m)		
802.11b-ant1_Low Channel: 2412MHz								
H	2390	48.58	-6.62	41.96	74	-32.04	PK	Pass
H	2390	38.93	-6.62	32.31	54	-21.69	AV	Pass
H	2400	48.05	-6.43	41.62	74	-32.38	PK	Pass
H	2400	39.49	-6.43	33.06	54	-20.94	AV	Pass
V	2390	47.99	-6.62	41.37	74	-32.63	PK	Pass
V	2390	37.59	-6.62	30.97	54	-23.03	AV	Pass
V	2400	49.52	-6.43	43.09	74	-30.91	PK	Pass
V	2400	39.42	-6.43	32.99	54	-21.01	AV	Pass
High Channel: 2462MHz								
H	2483.5	56.23	-6.17	50.06	74	-23.94	PK	Pass
H	2483.5	43.69	-6.17	37.52	54	-16.48	AV	Pass
H	2500	57.92	-6.13	51.79	74	-22.21	PK	Pass
H	2500	43.41	-6.13	37.28	54	-16.72	AV	Pass
V	2483.5	56.68	-6.17	50.51	74	-23.49	PK	Pass
V	2483.5	45.56	-6.17	39.39	54	-14.61	AV	Pass
V	2500	57.34	-6.13	51.21	74	-22.79	PK	Pass
V	2500	43.98	-6.13	37.85	54	-16.15	AV	Pass
802.11g-ant1_Low Channel: 2412MHz								
H	2390	48.60	-6.62	41.98	74	-32.02	PK	Pass
H	2390	38.63	-6.62	32.01	54	-21.99	AV	Pass
H	2400	49.40	-6.43	42.97	74	-31.03	PK	Pass
H	2400	38.91	-6.43	32.48	54	-21.52	AV	Pass
V	2390	49.59	-6.62	42.97	74	-31.03	PK	Pass
V	2390	37.13	-6.62	30.51	54	-23.49	AV	Pass
V	2400	48.03	-6.43	41.60	74	-32.40	PK	Pass
V	2400	38.05	-6.43	31.62	54	-22.38	AV	Pass
High Channel: 2462MHz								
H	2483.5	57.35	-6.17	51.18	74	-22.82	PK	Pass
H	2483.5	45.57	-6.17	39.40	54	-14.60	AV	Pass
H	2500	57.79	-6.13	51.66	74	-22.34	PK	Pass
H	2500	44.46	-6.13	38.33	54	-15.67	AV	Pass
V	2483.5	57.76	-6.17	51.59	74	-22.41	PK	Pass
V	2483.5	44.27	-6.17	38.10	54	-15.90	AV	Pass
V	2500	57.14	-6.13	51.01	74	-22.99	PK	Pass
V	2500	44.55	-6.13	38.42	54	-15.58	AV	Pass

Polar	Frequency	Meter Reading	Cable Loss	Level	Limit (dBuV/m)	Margin	Detector Type	Result
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)		(dBuV/m)		
802.11n20-ant1_Low Channel: 2412MHz								
H	2390	47.29	-6.62	40.67	74	-33.33	PK	Pass
H	2390	38.40	-6.62	31.78	54	-22.22	AV	Pass
H	2400	49.59	-6.43	43.16	74	-30.84	PK	Pass
H	2400	38.94	-6.43	32.51	54	-21.49	AV	Pass
V	2390	47.48	-6.62	40.86	74	-33.14	PK	Pass
V	2390	37.48	-6.62	30.86	54	-23.14	AV	Pass
V	2400	49.01	-6.43	42.58	74	-31.42	PK	Pass
V	2400	37.01	-6.43	30.58	54	-23.42	AV	Pass
High Channel: 2462MHz								
H	2483.5	57.70	-6.17	51.53	74	-22.47	PK	Pass
H	2483.5	45.48	-6.17	39.31	54	-14.69	AV	Pass
H	2500	57.20	-6.13	51.07	74	-22.93	PK	Pass
H	2500	44.97	-6.13	38.84	54	-15.16	AV	Pass
V	2483.5	57.29	-6.17	51.12	74	-22.88	PK	Pass
V	2483.5	43.22	-6.17	37.05	54	-16.95	AV	Pass
V	2500	58.48	-6.13	52.35	74	-21.65	PK	Pass
V	2500	45.29	-6.13	39.16	54	-14.84	AV	Pass
802.11n40-ant1_Low Channel: 2422MHz								
H	2390	49.26	-6.62	42.64	74	-31.36	PK	Pass
H	2390	38.13	-6.62	31.51	54	-22.49	AV	Pass
H	2400	48.95	-6.43	42.52	74	-31.48	PK	Pass
H	2400	37.68	-6.43	31.25	54	-22.75	AV	Pass
V	2390	47.18	-6.62	40.56	74	-33.44	PK	Pass
V	2390	37.69	-6.62	31.07	54	-22.93	AV	Pass
V	2400	49.19	-6.43	42.76	74	-31.24	PK	Pass
V	2400	37.82	-6.43	31.39	54	-22.61	AV	Pass
High Channel: 2452MHz								
H	2483.5	56.89	-6.17	50.72	74	-23.28	PK	Pass
H	2483.5	43.01	-6.17	36.84	54	-17.16	AV	Pass
H	2500	56.12	-6.13	49.99	74	-24.01	PK	Pass
H	2500	45.10	-6.13	38.97	54	-15.03	AV	Pass
V	2483.5	58.46	-6.17	52.29	74	-21.71	PK	Pass
V	2483.5	45.55	-6.17	39.38	54	-14.62	AV	Pass
V	2500	57.12	-6.13	50.99	74	-23.01	PK	Pass
V	2500	45.21	-6.13	39.08	54	-14.92	AV	Pass

Remark:Margin=Level - Limit, Level=Test receiver reading + correction factor
The test software will only record the worst test angle and height, and only the worst case will be recorded in the test report.

4.7 Emissions in frequency bands (below 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), 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)(see § 15.205(c)).
Test Limit:	<table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100 **</td><td>3</td></tr><tr><td>88-216</td><td>150 **</td><td>3</td></tr><tr><td>216-960</td><td>200 **</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table> ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
Test Method:	ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. h. Test the EUT in the lowest channel, the middle channel, the Highest channel. i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. j. Repeat above procedures until all frequencies measured was complete. Remark: 1) For emission below 1GHz, through pre-scan found the worst case is the lowest

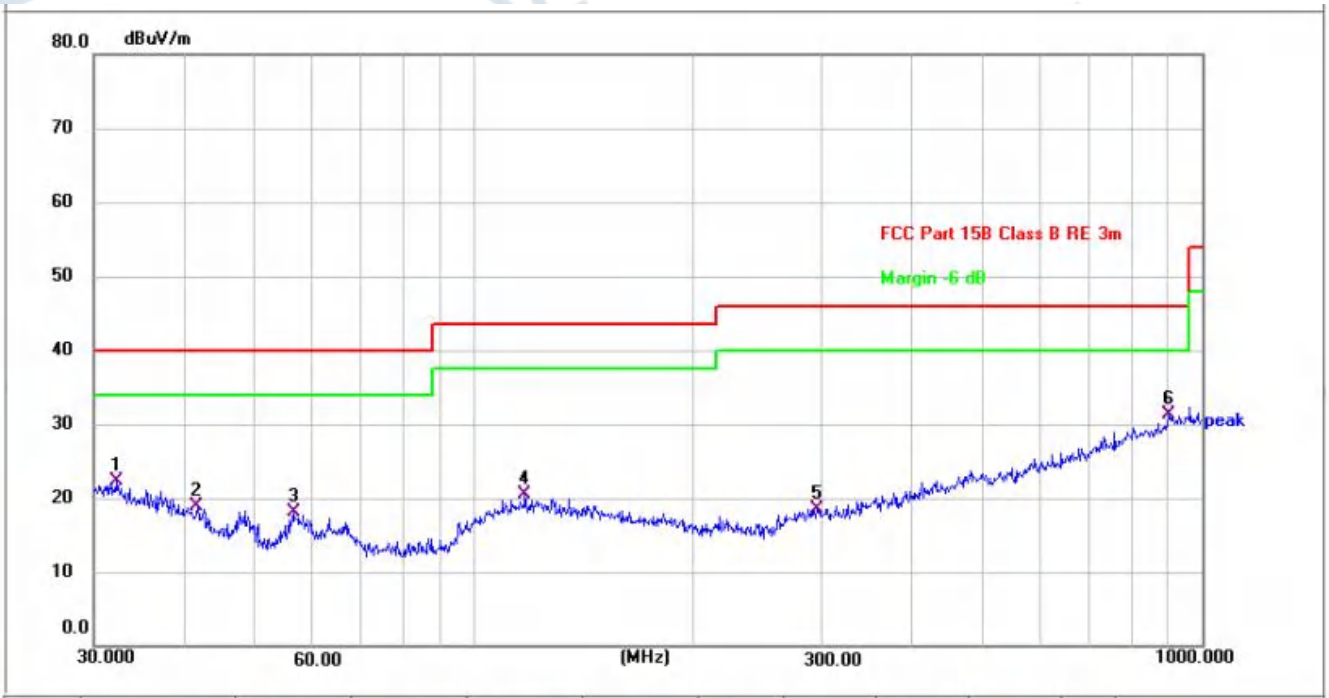
	channel. Only the worst case is recorded in the report. 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading + Antenna Factor + Cable Factor ¨C Preamplifier Factor 3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

4.7.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.8 °C	Humidity:	50 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

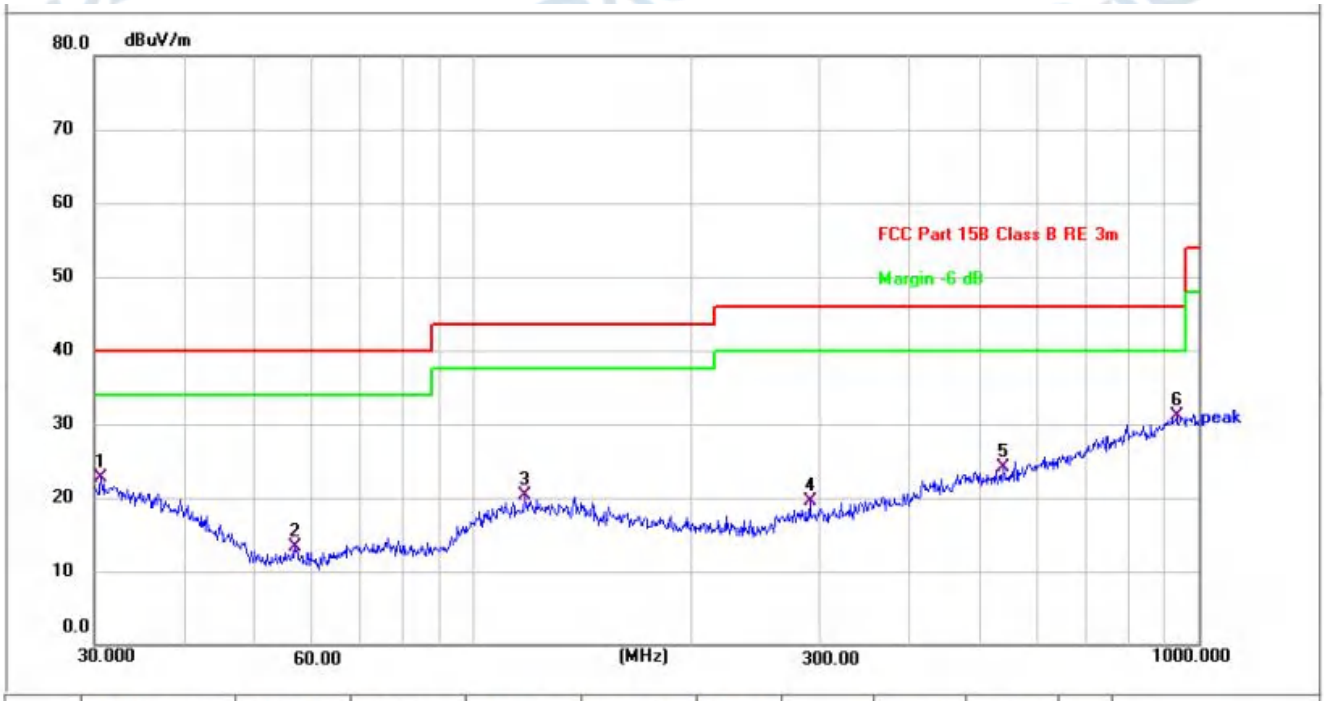
4.7.2 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	32.1794	26.86	-4.60	22.26	40.00	-17.74	QP			P	
2	41.7129	27.61	-8.69	18.92	40.00	-21.08	QP			P	
3	56.3948	31.80	-13.79	18.01	40.00	-21.99	QP			P	
4	117.3602	27.20	-6.75	20.45	43.50	-23.05	QP			P	
5	296.1836	26.63	-8.11	18.52	46.00	-27.48	QP			P	
6 *	900.1474	27.40	3.98	31.38	46.00	-14.62	QP			P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.6379	25.22	-2.53	22.69	40.00	-17.31	QP	100		P	
2	56.7917	27.16	-13.94	13.22	40.00	-26.78	QP	100		P	
3	117.7725	26.98	-6.75	20.23	43.50	-23.27	QP	100		P	
4	291.0360	27.51	-8.04	19.47	46.00	-26.53	QP	100		P	
5	537.5891	27.09	-3.02	24.07	46.00	-21.93	QP	100		P	
6 *	932.2715	26.72	4.41	31.13	46.00	-14.87	QP	100		P	

4.8 Emissions in frequency bands (above 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), 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)(see § 15.205(c)).
Test Limit:	

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
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

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.
In the emission table above, the tighter limit applies at the band edges.
The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

Test Method:	ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. h. Test the EUT in the lowest channel, the middle channel, the Highest channel. i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. j. Repeat above procedures until all frequencies measured was complete. Remark: 1) For emission below 1GHz, through pre-scan found the worst case is the lowest

	channel. Only the worst case is recorded in the report. 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading + Antenna Factor + Cable Factor ¨C Preamplifier Factor 3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

4.8.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.4 °C	Humidity:	54 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.8.2 Test Data:

Polar	Frequency	Meter Reading	Cable Loss	Level	Limit (dBuV/m)	Margin	Detector Type	Result
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)		(dBuV/m)		
802.11b-ant1_Low Channel: 2412MHz								
V	4824	54.26	-0.17	54.09	74	-19.91	PK	Pass
V	4824	34.63	-0.17	34.46	54	-19.54	AV	Pass
V	7236	53.99	4.78	58.77	74	-15.23	PK	Pass
V	7236	33.02	4.78	37.80	54	-16.20	AV	Pass
V	9648	53.43	8.08	61.51	74	-12.49	PK	Pass
V	9648	34.20	8.08	42.28	54	-11.72	AV	Pass
H	4824	53.54	-0.17	53.37	74	-20.63	PK	Pass
H	4824	34.72	-0.17	34.55	54	-19.45	AV	Pass
H	7236	54.96	4.78	59.74	74	-14.26	PK	Pass
H	7236	34.86	4.78	39.64	54	-14.36	AV	Pass
H	9648	54.62	8.08	62.70	74	-11.30	PK	Pass
H	9648	34.82	8.08	42.90	54	-11.10	AV	Pass
Middle Channel:2437MHz								
V	4874	53.40	-0.17	53.23	74	-20.77	PK	Pass
V	4874	34.37	-0.17	34.20	54	-19.80	AV	Pass
V	7311	54.52	4.78	59.30	74	-14.70	PK	Pass
V	7311	34.23	4.78	39.01	54	-14.99	AV	Pass
V	9748	53.37	8.08	61.45	74	-12.55	PK	Pass
V	9748	33.86	8.08	41.94	54	-12.06	AV	Pass
H	4874	54.17	-0.17	54.00	74	-20.00	PK	Pass
H	4874	33.49	-0.17	33.32	54	-20.68	AV	Pass
H	7311	54.85	4.78	59.63	74	-14.37	PK	Pass
H	7311	33.04	4.78	37.82	54	-16.18	AV	Pass
H	9748	54.65	8.08	62.73	74	-11.27	PK	Pass

H	9748	34.39	8.08	42.47	54	-11.53	AV	Pass
High Channel:2462MHz								
V	4924	54.39	-0.17	54.22	74	-19.78	PK	Pass
V	4924	33.04	-0.17	32.87	54	-21.13	AV	Pass
V	7386	54.04	4.78	58.82	74	-15.18	PK	Pass
V	7386	35.22	4.78	40.00	54	-14.00	AV	Pass
V	9848	54.40	8.08	62.48	74	-11.52	PK	Pass
V	9848	33.96	8.08	42.04	54	-11.96	AV	Pass
H	4924	54.01	-0.17	53.84	74	-20.16	PK	Pass
H	4924	33.85	-0.17	33.68	54	-20.32	AV	Pass
H	7386	53.62	4.78	58.40	74	-15.60	PK	Pass
H	7386	33.44	4.78	38.22	54	-15.78	AV	Pass
H	9848	53.64	8.08	61.72	74	-12.28	PK	Pass
H	9848	34.55	8.08	42.63	54	-11.37	PK	Pass

Polar	Frequency	Meter Reading	Cable Loss	Level	Limit (dBuV/m)	Margin	Detector Type	Result
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)		(dBuV/m)		
802.11g-ant1_Low Channel: 2412MHz								
V	4824	55.42	-0.17	55.25	74	-18.75	PK	Pass
V	4824	33.90	-0.17	33.73	54	-20.27	AV	Pass
V	7236	53.57	4.78	58.35	74	-15.65	PK	Pass
V	7236	33.89	4.78	38.67	54	-15.33	AV	Pass
V	9648	55.54	8.08	63.62	74	-10.38	PK	Pass
V	9648	35.02	8.08	43.10	54	-10.90	AV	Pass
H	4824	54.10	-0.17	53.93	74	-20.07	PK	Pass
H	4824	34.42	-0.17	34.25	54	-19.75	AV	Pass
H	7236	55.04	4.78	59.82	74	-14.18	PK	Pass
H	7236	33.08	4.78	37.86	54	-16.14	AV	Pass
H	9648	55.21	8.08	63.29	74	-10.71	PK	Pass
H	9648	34.71	8.08	42.79	54	-11.21	AV	Pass
Middle Channel:2437MHz								
V	4874	55.53	-0.17	55.36	74	-18.64	PK	Pass
V	4874	34.96	-0.17	34.79	54	-19.21	AV	Pass
V	7311	54.50	4.78	59.28	74	-14.72	PK	Pass
V	7311	34.26	4.78	39.04	54	-14.96	AV	Pass
V	9748	53.95	8.08	62.03	74	-11.97	PK	Pass
V	9748	33.04	8.08	41.12	54	-12.88	AV	Pass
H	4874	54.35	-0.17	54.18	74	-19.82	PK	Pass
H	4874	34.36	-0.17	34.19	54	-19.81	AV	Pass
H	7311	54.17	4.78	58.95	74	-15.05	PK	Pass
H	7311	34.07	4.78	38.85	54	-15.15	AV	Pass
H	9748	53.61	8.08	61.69	74	-12.31	PK	Pass

H	9748	33.58	8.08	41.66	54	-12.34	AV	Pass
High Channel:2462MHz								
V	4924	53.57	-0.17	53.40	74	-20.60	PK	Pass
V	4924	35.43	-0.17	35.26	54	-18.74	AV	Pass
V	7386	55.51	4.78	60.29	74	-13.71	PK	Pass
V	7386	33.89	4.78	38.67	54	-15.33	AV	Pass
V	9848	55.11	8.08	63.19	74	-10.81	PK	Pass
V	9848	33.46	8.08	41.54	54	-12.46	AV	Pass
H	4924	54.85	-0.17	54.68	74	-19.32	PK	Pass
H	4924	34.08	-0.17	33.91	54	-20.09	AV	Pass
H	7386	53.31	4.78	58.09	74	-15.91	PK	Pass
H	7386	33.68	4.78	38.46	54	-15.54	AV	Pass
H	9848	54.99	8.08	63.07	74	-10.93	PK	Pass
H	9848	33.05	8.08	41.13	54	-12.87	PK	Pass

Polar	Frequency	Meter Reading	Cable Loss	Level	Limit (dBuV/m)	Margin	Detector Type	Result
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)		(dBuV/m)		
802.11n20-ant1_Low Channel: 2412MHz								
V	4824	54.97	-0.17	54.80	74	-19.20	PK	Pass
V	4824	35.33	-0.17	35.16	54	-18.84	AV	Pass
V	7236	54.82	4.78	59.60	74	-14.40	PK	Pass
V	7236	35.11	4.78	39.89	54	-14.11	AV	Pass
V	9648	55.25	8.08	63.33	74	-10.67	PK	Pass
V	9648	34.66	8.08	42.74	54	-11.26	AV	Pass
H	4824	54.87	-0.17	54.70	74	-19.30	PK	Pass
H	4824	35.34	-0.17	35.17	54	-18.83	AV	Pass
H	7236	53.77	4.78	58.55	74	-15.45	PK	Pass
H	7236	33.81	4.78	38.59	54	-15.41	AV	Pass
H	9648	53.88	8.08	61.96	74	-12.04	PK	Pass
H	9648	34.76	8.08	42.84	54	-11.16	AV	Pass
Middle Channel:2437MHz								
V	4874	54.52	-0.17	54.35	74	-19.65	PK	Pass
V	4874	34.00	-0.17	33.83	54	-20.17	AV	Pass
V	7311	55.48	4.78	60.26	74	-13.74	PK	Pass
V	7311	33.72	4.78	38.50	54	-15.50	AV	Pass
V	9748	54.29	8.08	62.37	74	-11.63	PK	Pass
V	9748	33.00	8.08	41.08	54	-12.92	AV	Pass
H	4874	54.01	-0.17	53.84	74	-20.16	PK	Pass
H	4874	34.51	-0.17	34.34	54	-19.66	AV	Pass
H	7311	53.30	4.78	58.08	74	-15.92	PK	Pass
H	7311	33.23	4.78	38.01	54	-15.99	AV	Pass
H	9748	55.18	8.08	63.26	74	-10.74	PK	Pass

H	9748	33.40	8.08	41.48	54	-12.52	AV	Pass
High Channel:2462MHz								
V	4924	55.53	-0.17	55.36	74	-18.64	PK	Pass
V	4924	35.33	-0.17	35.16	54	-18.84	AV	Pass
V	7386	55.45	4.78	60.23	74	-13.77	PK	Pass
V	7386	35.32	4.78	40.10	54	-13.90	AV	Pass
V	9848	53.73	8.08	61.81	74	-12.19	PK	Pass
V	9848	33.53	8.08	41.61	54	-12.39	AV	Pass
H	4924	55.20	-0.17	55.03	74	-18.97	PK	Pass
H	4924	34.02	-0.17	33.85	54	-20.15	AV	Pass
H	7386	54.76	4.78	59.54	74	-14.46	PK	Pass
H	7386	33.96	4.78	38.74	54	-15.26	AV	Pass
H	9848	53.01	8.08	61.09	74	-12.91	PK	Pass
H	9848	33.29	8.08	41.37	54	-12.63	PK	Pass

Polar	Frequency	Meter Reading	Cable Loss	Level	Limit (dBuV/m)	Margin	Detector Type	Result
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)		(dBuV/m)		
802.11n40-ant1_Low Channel: 2422MHz								
V	4824	53.62	-0.17	53.45	74	-20.55	PK	Pass
V	4824	35.40	-0.17	35.23	54	-18.77	AV	Pass
V	7236	55.03	4.78	59.81	74	-14.19	PK	Pass
V	7236	33.68	4.78	38.46	54	-15.54	AV	Pass
V	9648	53.19	8.08	61.27	74	-12.73	PK	Pass
V	9648	34.40	8.08	42.48	54	-11.52	AV	Pass
H	4824	53.32	-0.17	53.15	74	-20.85	PK	Pass
H	4824	33.56	-0.17	33.39	54	-20.61	AV	Pass
H	7236	54.51	4.78	59.29	74	-14.71	PK	Pass
H	7236	34.12	4.78	38.90	54	-15.10	AV	Pass
H	9648	53.00	8.08	61.08	74	-12.92	PK	Pass
H	9648	33.19	8.08	41.27	54	-12.73	AV	Pass
Middle Channel:2437MHz								
V	4874	55.53	-0.17	55.36	74	-18.64	PK	Pass
V	4874	34.26	-0.17	34.09	54	-19.91	AV	Pass
V	7311	54.02	4.78	58.80	74	-15.20	PK	Pass
V	7311	35.54	4.78	40.32	54	-13.68	AV	Pass
V	9748	54.33	8.08	62.41	74	-11.59	PK	Pass
V	9748	33.79	8.08	41.87	54	-12.13	AV	Pass
H	4874	53.18	-0.17	53.01	74	-20.99	PK	Pass
H	4874	33.91	-0.17	33.74	54	-20.26	AV	Pass
H	7311	53.41	4.78	58.19	74	-15.81	PK	Pass
H	7311	35.05	4.78	39.83	54	-14.17	AV	Pass
H	9748	53.53	8.08	61.61	74	-12.39	PK	Pass

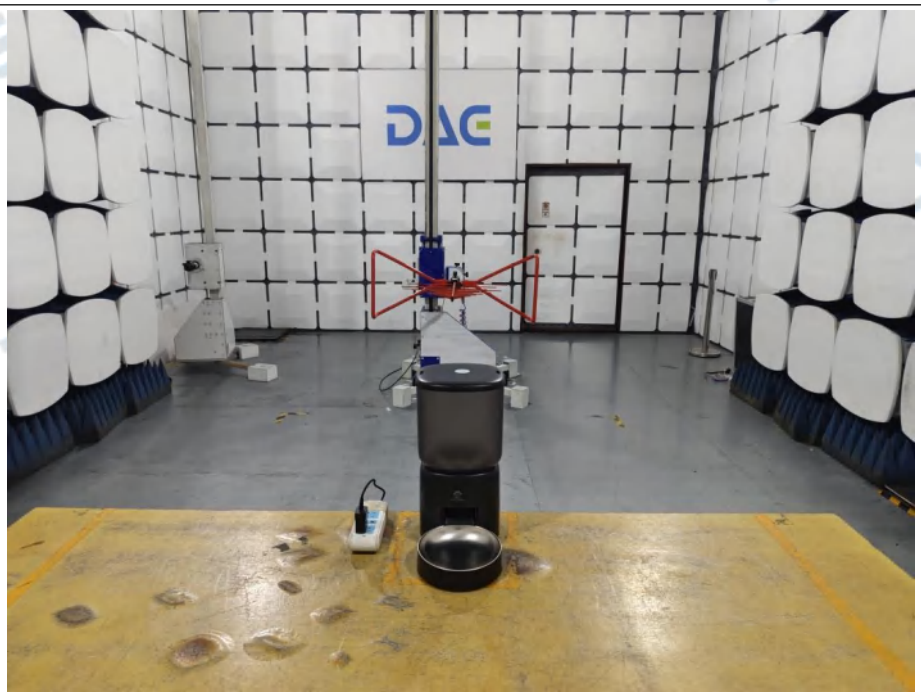
H	9748	35.44	8.08	43.52	54	-10.48	AV	Pass
High Channel:2452MHz								
V	4924	54.02	-0.17	53.85	74	-20.15	PK	Pass
V	4924	35.19	-0.17	35.02	54	-18.98	AV	Pass
V	7386	55.26	4.78	60.04	74	-13.96	PK	Pass
V	7386	34.97	4.78	39.75	54	-14.25	AV	Pass
V	9848	53.07	8.08	61.15	74	-12.85	PK	Pass
V	9848	34.81	8.08	42.89	54	-11.11	AV	Pass
H	4924	53.30	-0.17	53.13	74	-20.87	PK	Pass
H	4924	33.54	-0.17	33.37	54	-20.63	AV	Pass
H	7386	54.84	4.78	59.62	74	-14.38	PK	Pass
H	7386	33.50	4.78	38.28	54	-15.72	AV	Pass
H	9848	53.14	8.08	61.22	74	-12.78	PK	Pass
H	9848	34.16	8.08	42.24	54	-11.76	PK	Pass

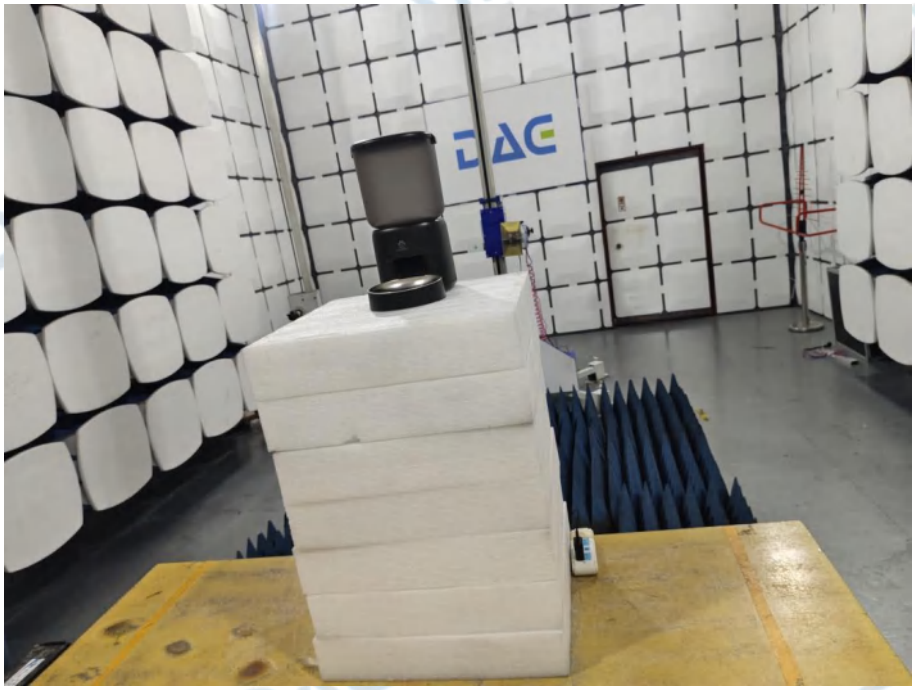
Remark:Margin=Level - Limit, Level=Test receiver reading + correction factor
The test software will only record the worst test angle and height, and only the worst case will be recorded in the test report.

5 TEST SETUP PHOTOS

Conducted Emission at AC power line

Emissions in frequency bands (below 1GHz)



Emissions in frequency bands (above 1GHz)


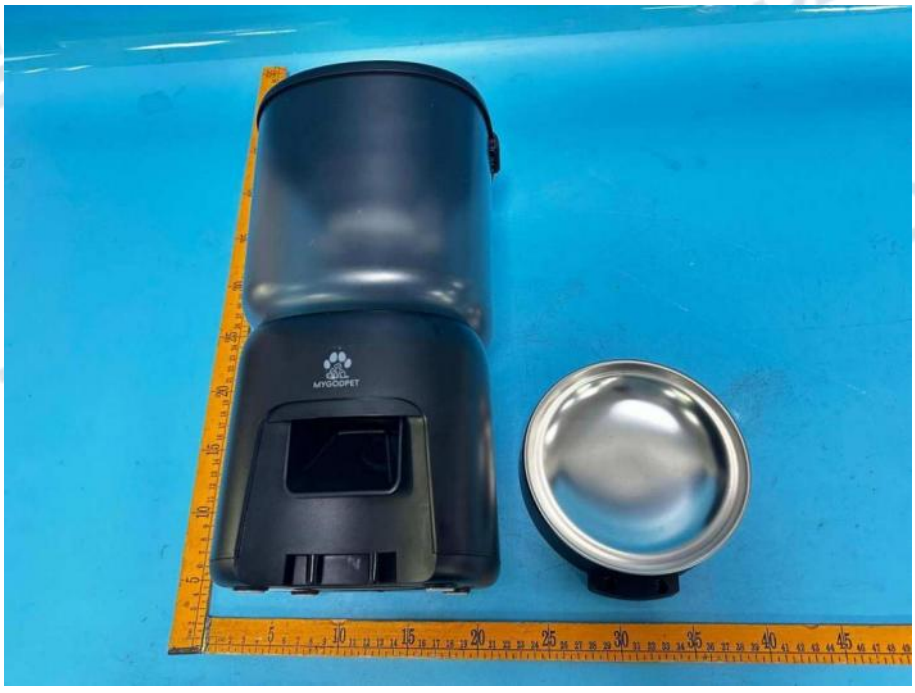
6 PHOTOS OF THE EUT

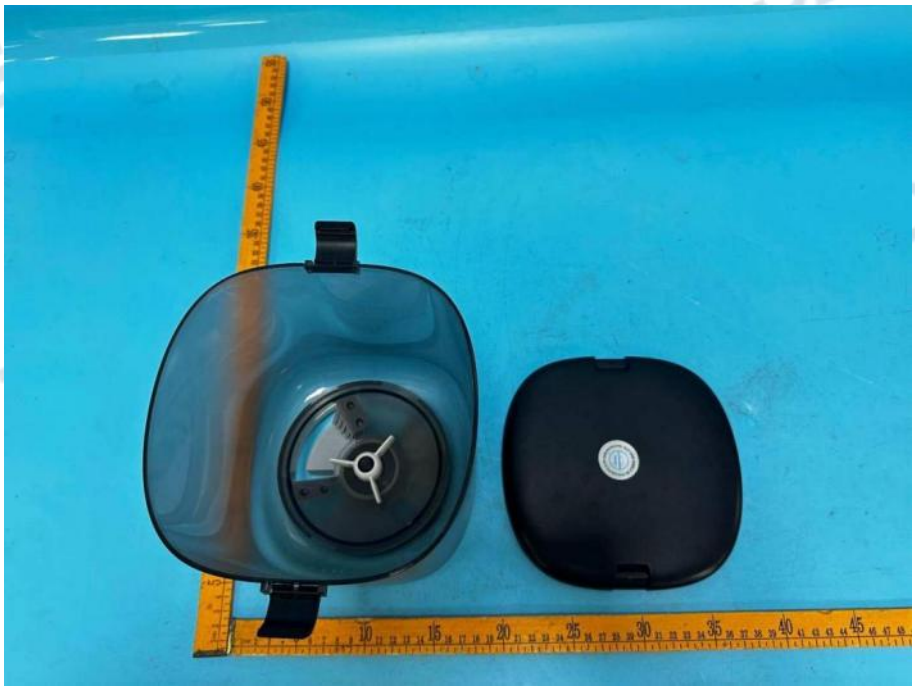
External



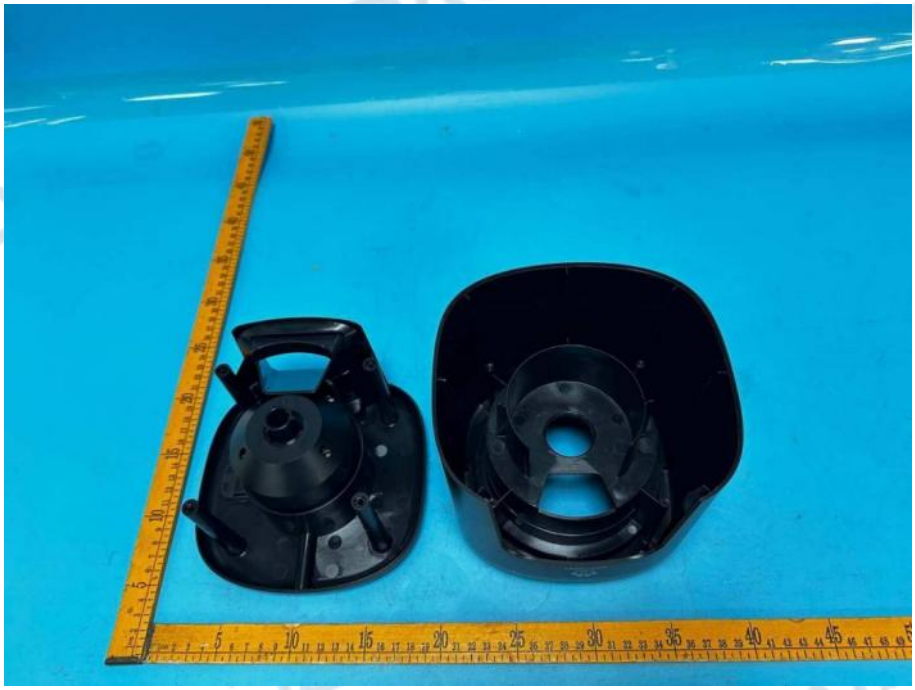
DC 5V

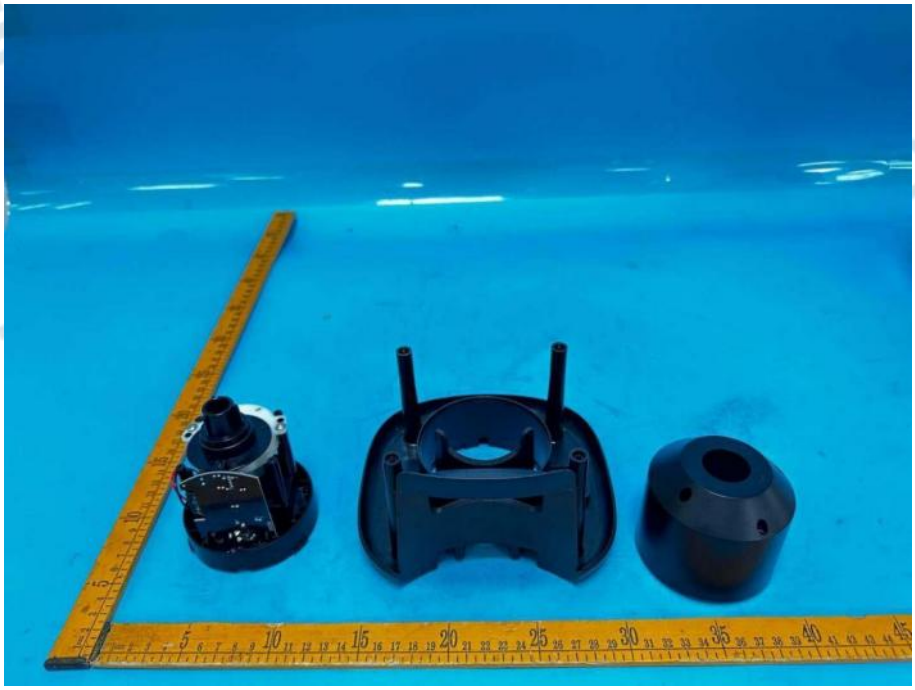

automatic pet feeder

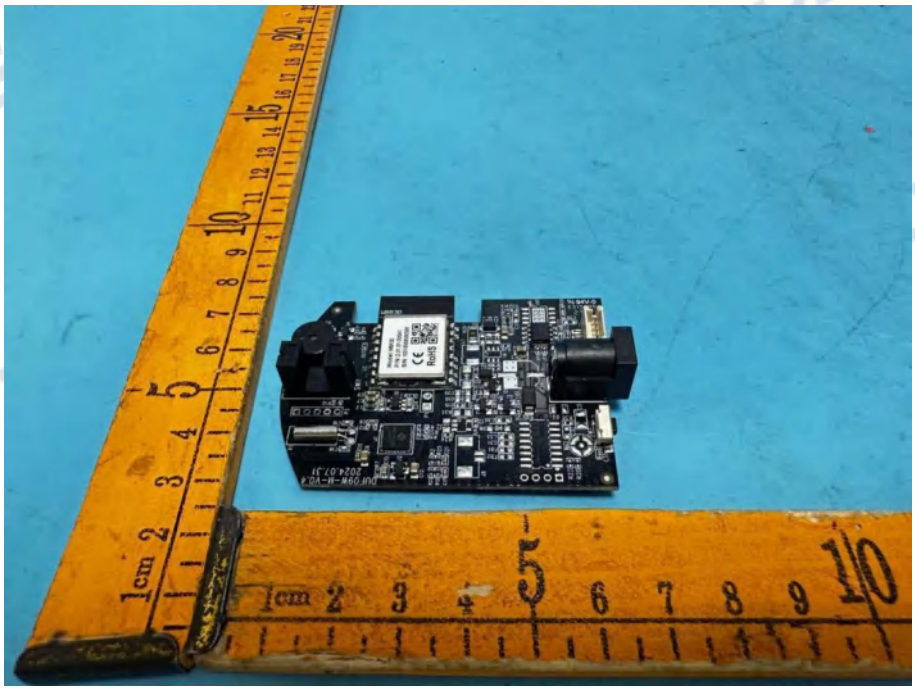

MYGOODPET

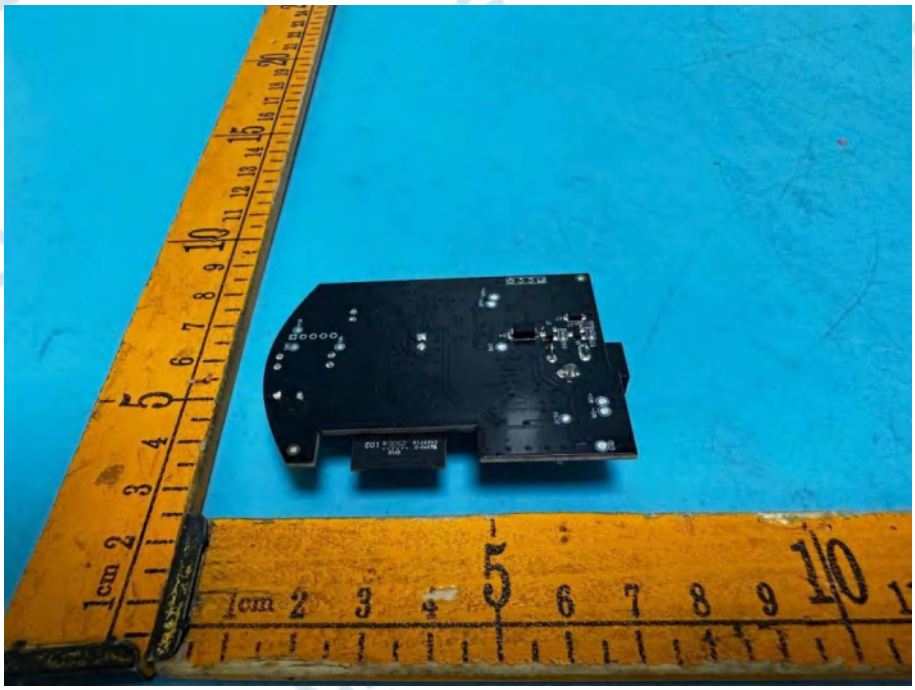


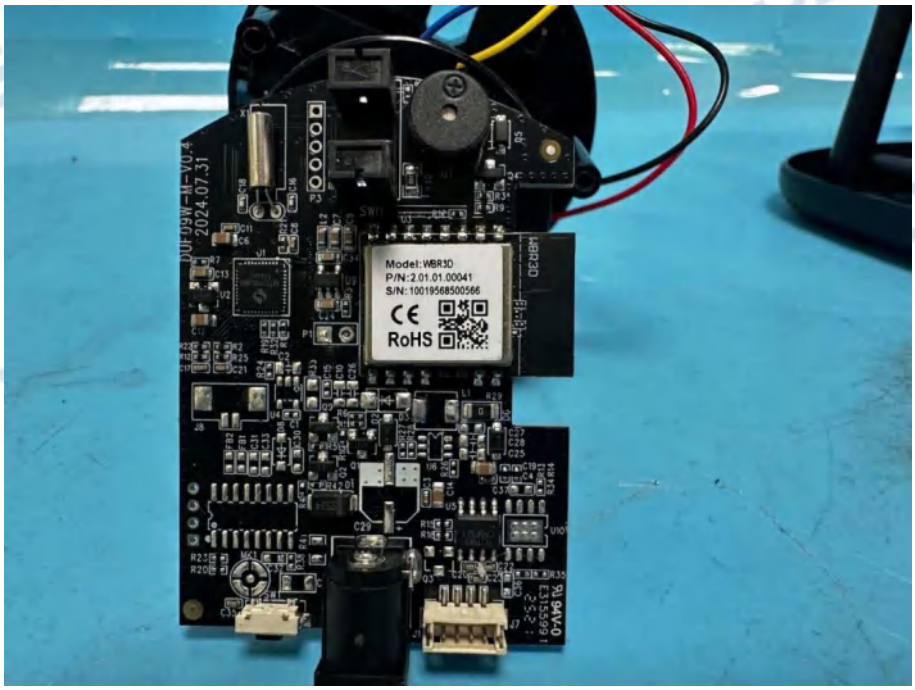
Internal










Model: W8R3D
P/N: 2.01.01.00041
S/N: 10019568500566
RoHS


Power Adapter
Model:TPA-46B050100UU
Input:100-240V ~ 50/60Hz 0.2A
Output:5.0V ⎓ 1000mA
EFFICIENCY LEVEL: VI
I.T.E power supply
LISTED
40AZ
E329703
SHENZHEN TIANYIN ELECTRONICS CO., LTD.
Made in China

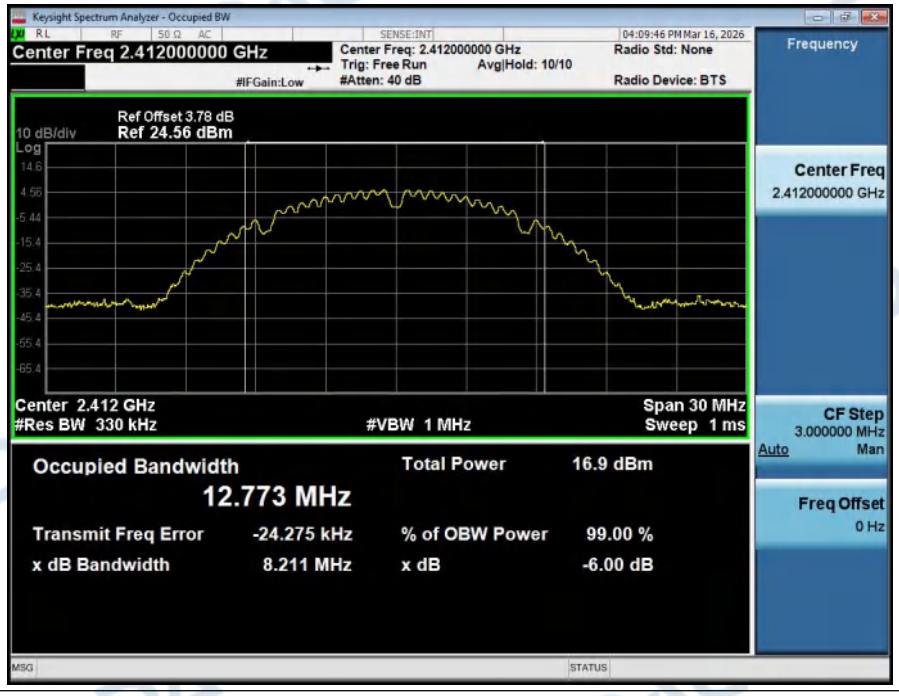
Appendix

HT260313003-MT02-FCC ID-2.4GWIFI
FCC_2.4G_WIFI (Part15.247) Test Data

1. -6dB Bandwidth

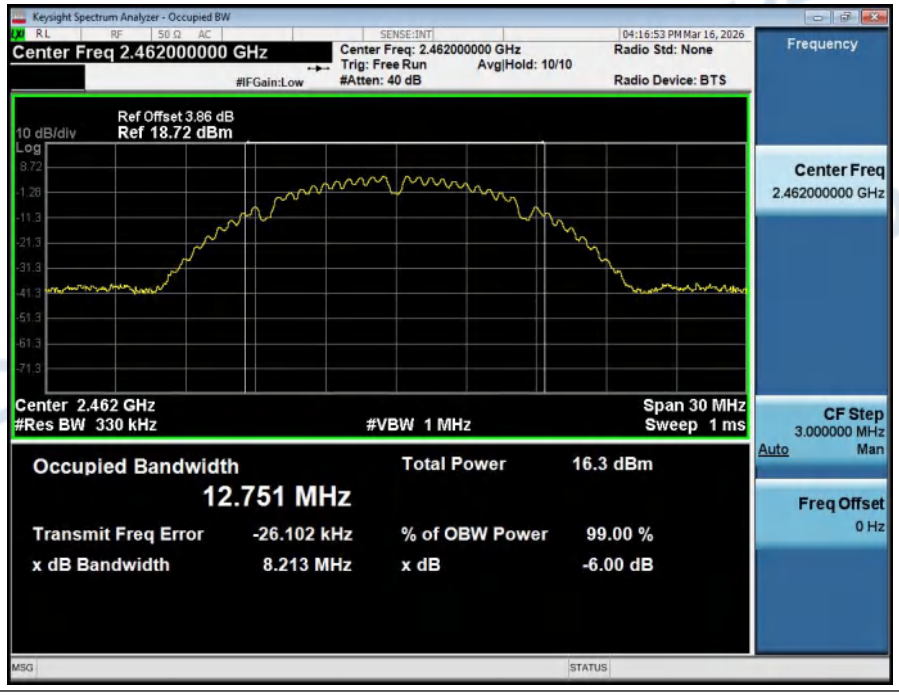
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.21	500	Pass
NVNT	ANT1	802.11b	2437.00	8.21	500	Pass
NVNT	ANT1	802.11b	2462.00	8.21	500	Pass
NVNT	ANT1	802.11g	2412.00	16.22	500	Pass
NVNT	ANT1	802.11g	2437.00	16.27	500	Pass
NVNT	ANT1	802.11g	2462.00	16.10	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.56	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.52	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.52	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.59	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.46	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.29	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



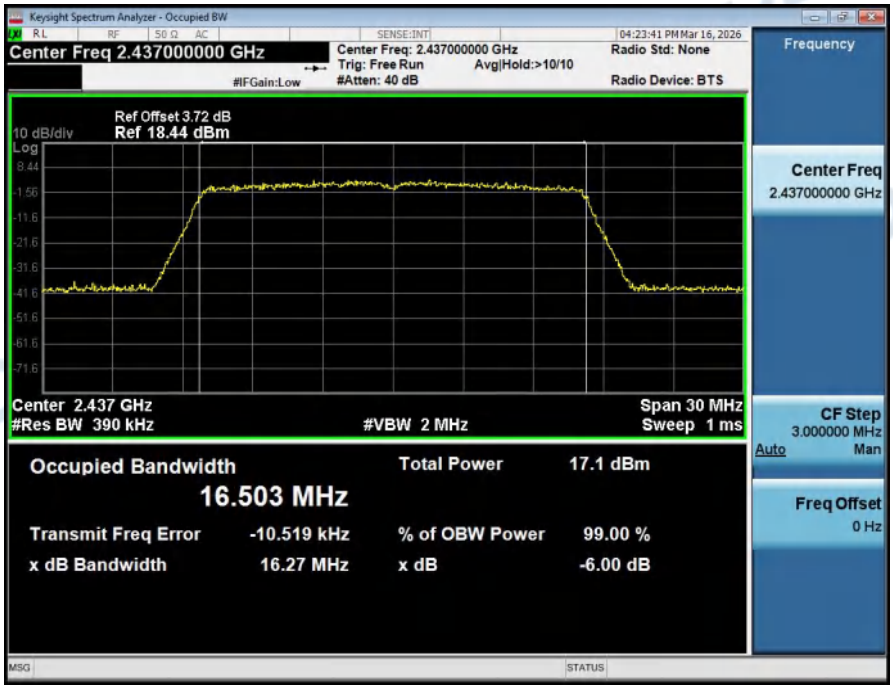
-6dB_Bandwidth_NVNT_ANT1_802_11b_2437

-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



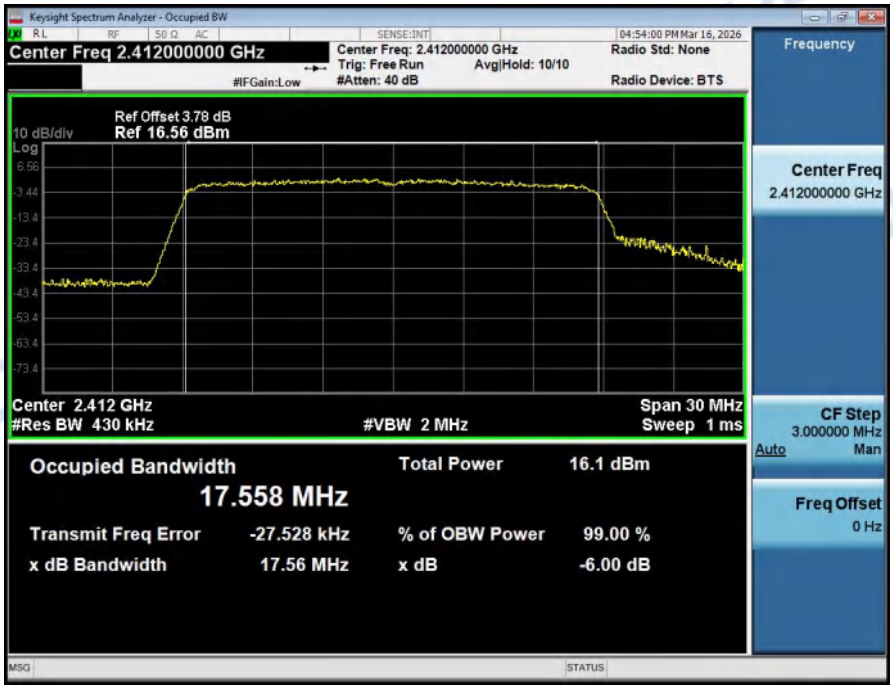
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412

-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



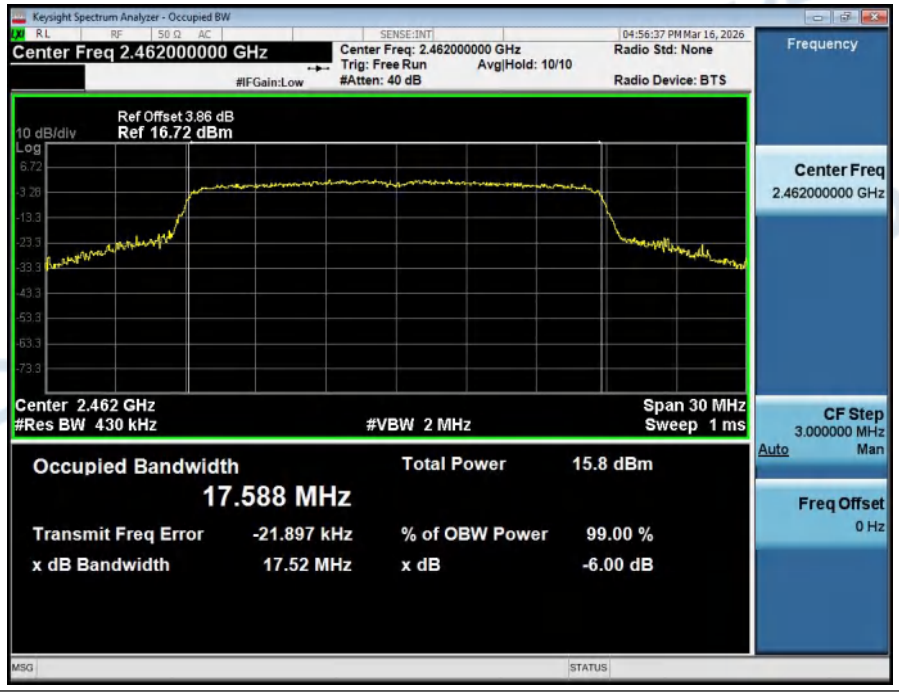
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462

-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412

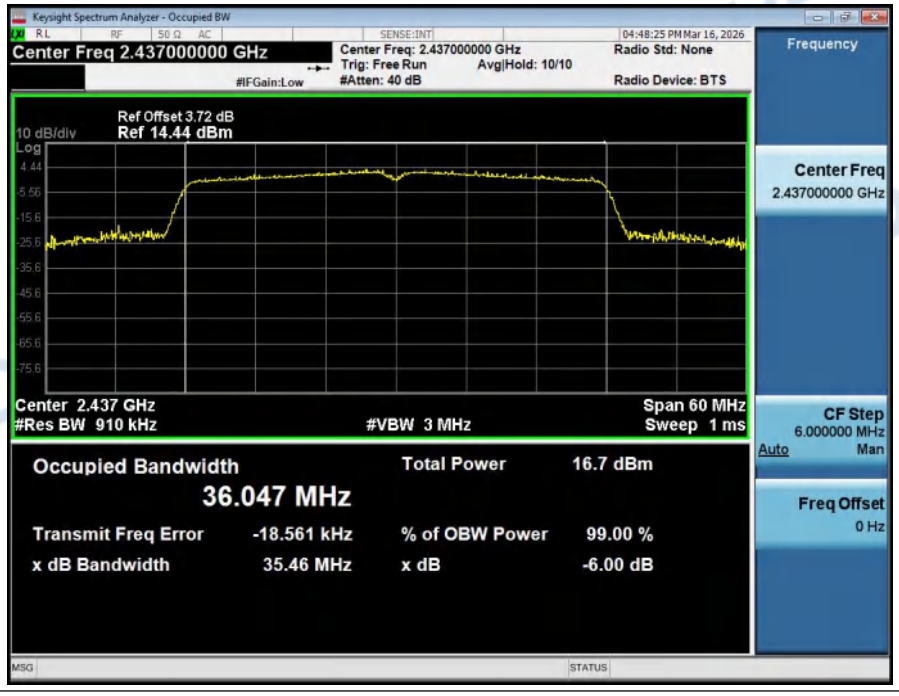


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437

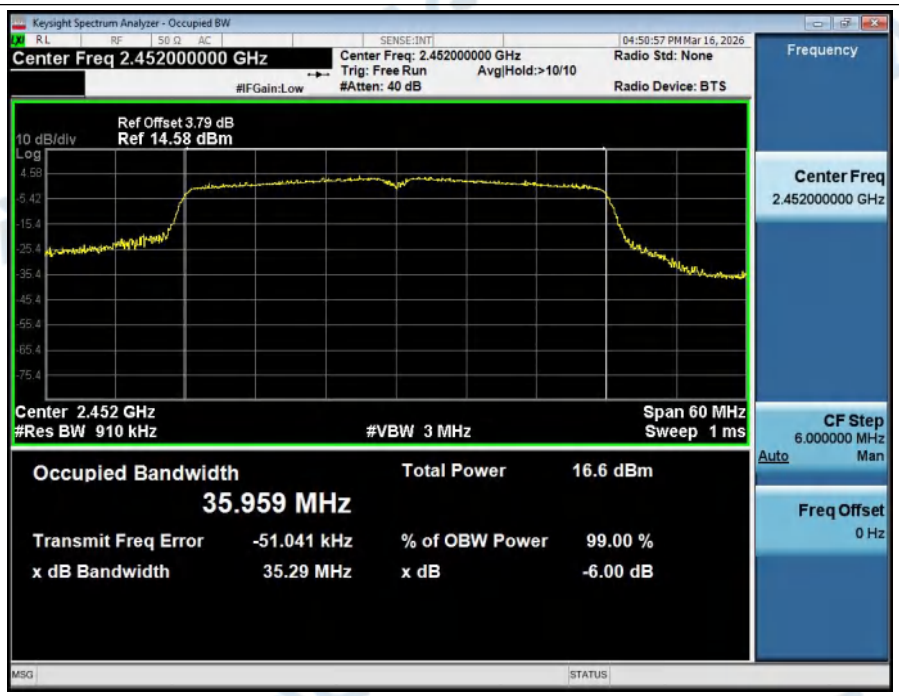
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437


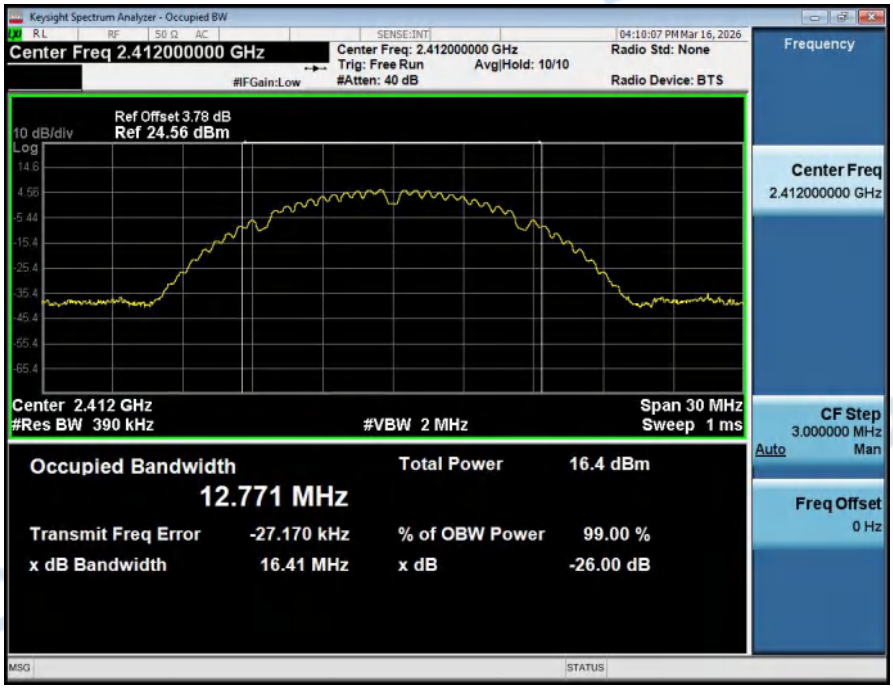
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



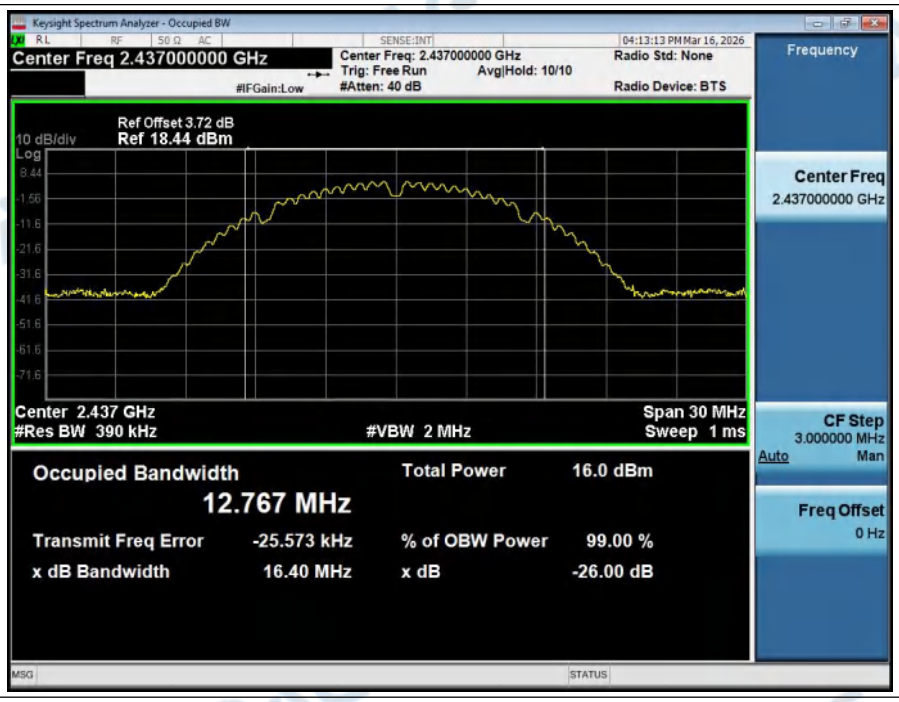
2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	802.11b	2412.00	12.771
NVNT	ANT1	802.11b	2437.00	12.767
NVNT	ANT1	802.11b	2462.00	12.749
NVNT	ANT1	802.11g	2412.00	16.547
NVNT	ANT1	802.11g	2437.00	16.459
NVNT	ANT1	802.11g	2462.00	16.502
NVNT	ANT1	802.11n(HT20)	2412.00	17.589
NVNT	ANT1	802.11n(HT20)	2437.00	17.727
NVNT	ANT1	802.11n(HT20)	2462.00	17.636
NVNT	ANT1	802.11n(HT40)	2422.00	36.012
NVNT	ANT1	802.11n(HT40)	2437.00	36.029
NVNT	ANT1	802.11n(HT40)	2452.00	35.941

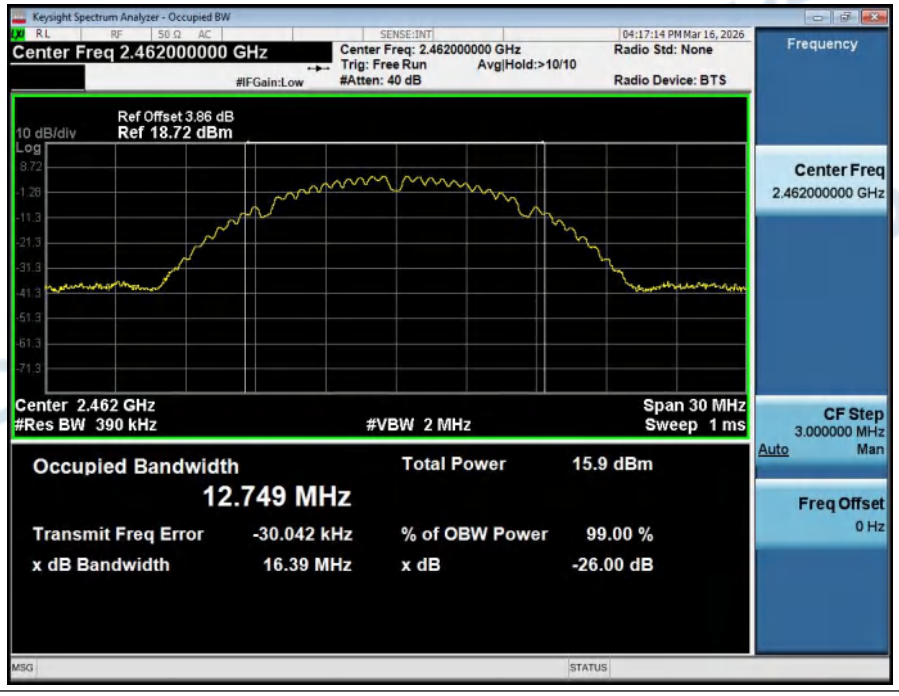
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412



99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437

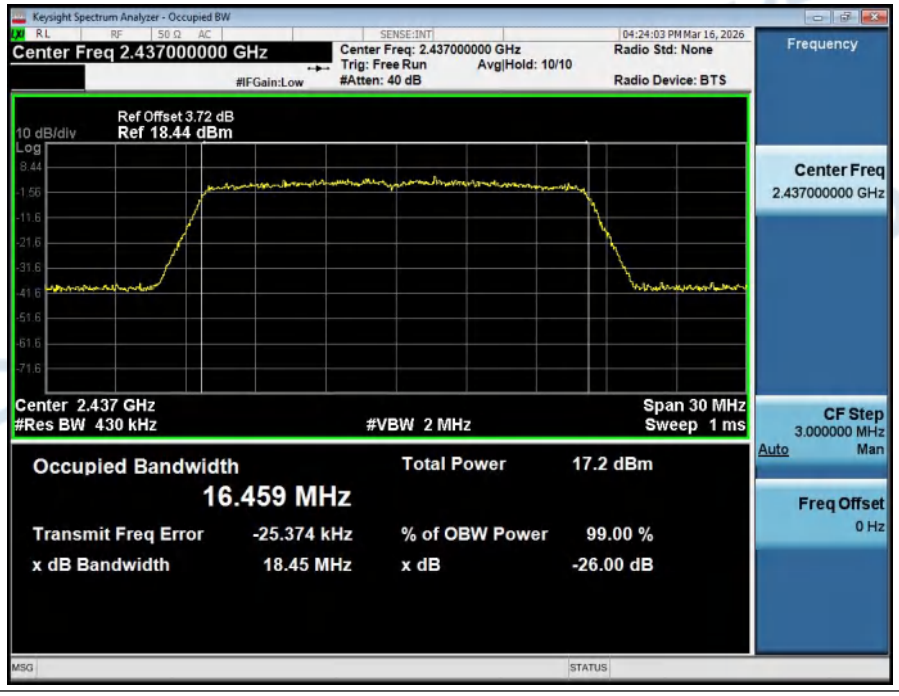


99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462



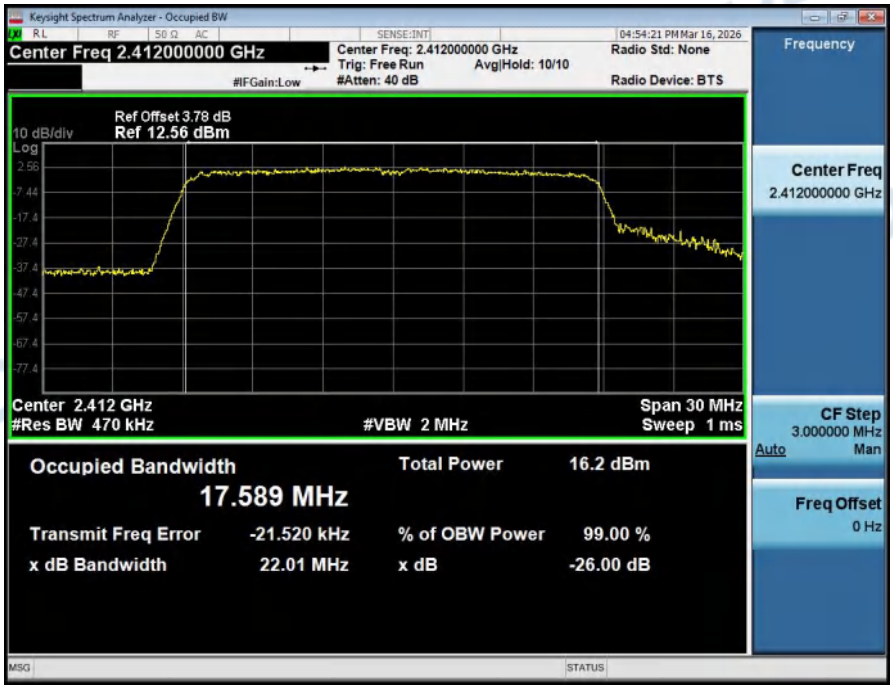
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412

99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437

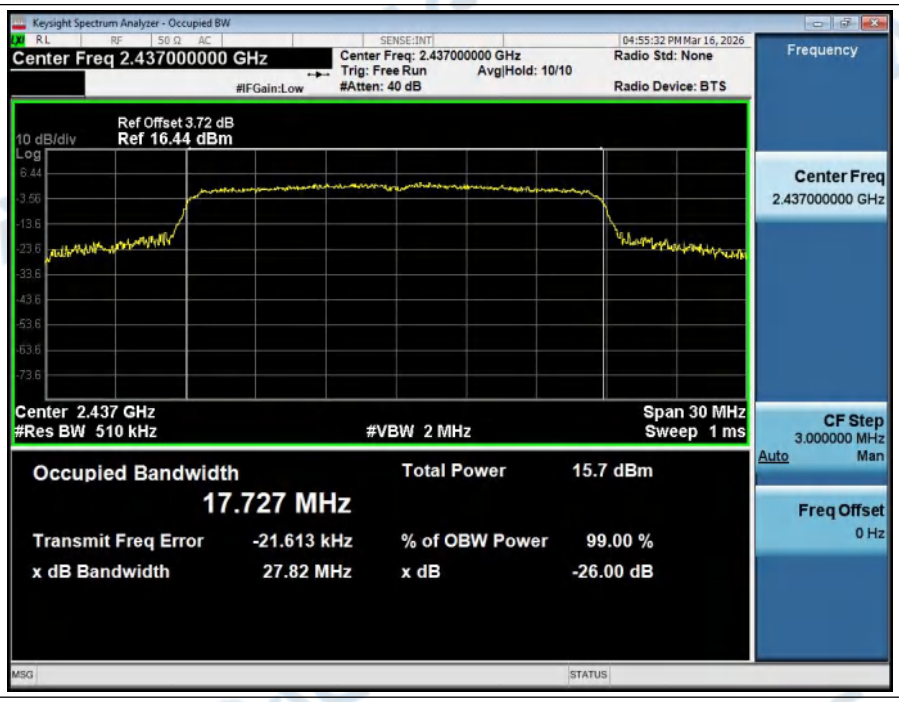


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462

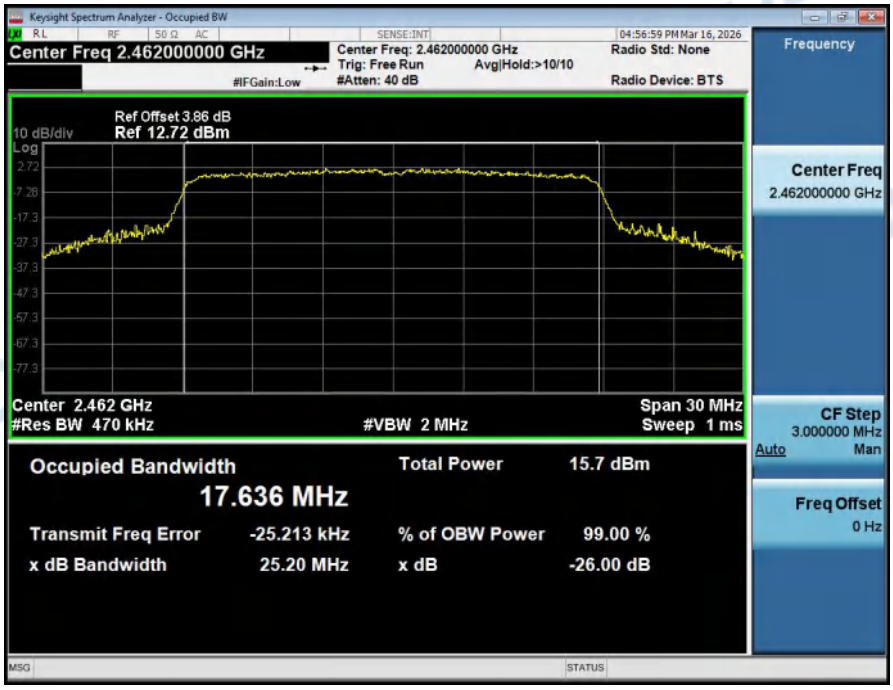
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422

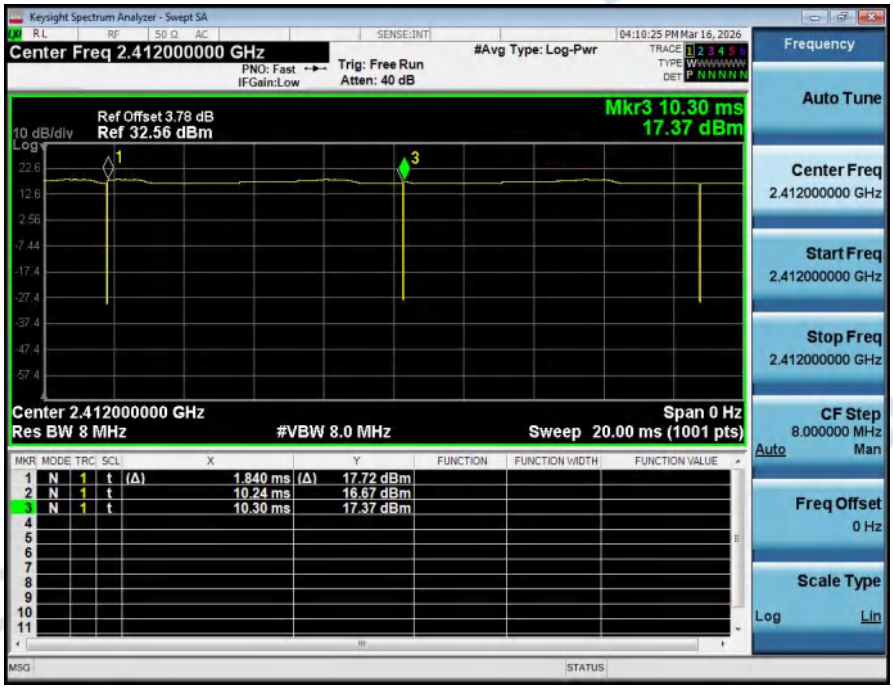
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437

99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452

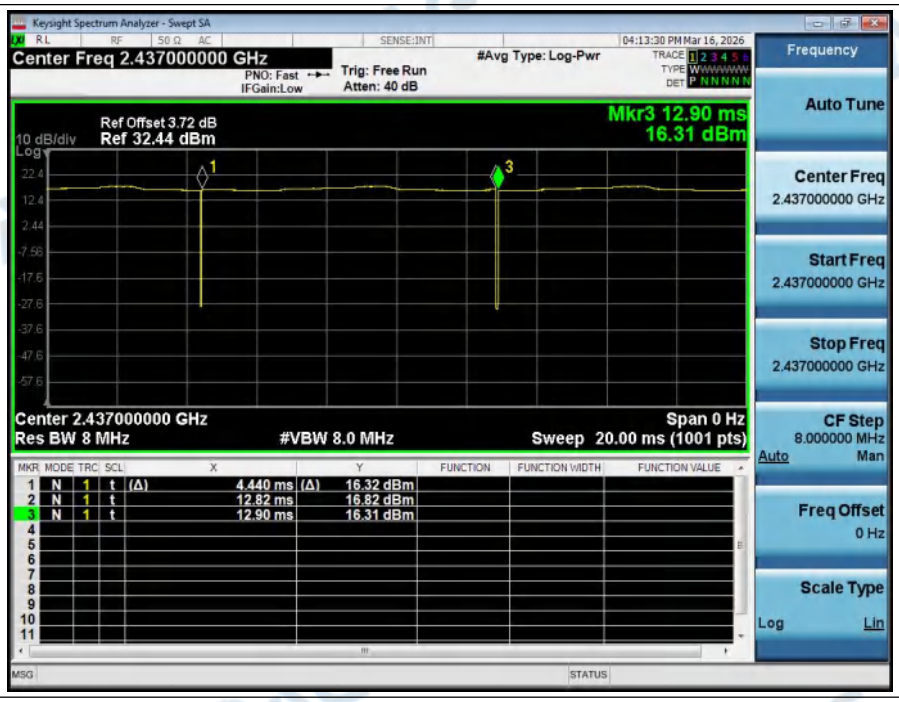
3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.53	0.00
NVNT	ANT1	802.11b	2437.00	99.29	0.00
NVNT	ANT1	802.11b	2462.00	99.29	0.00
NVNT	ANT1	802.11g	2412.00	76.92	1.14
NVNT	ANT1	802.11g	2437.00	69.23	1.60
NVNT	ANT1	802.11g	2462.00	83.33	0.79
NVNT	ANT1	802.11n(HT20)	2412.00	97.06	0.13
NVNT	ANT1	802.11n(HT20)	2437.00	98.53	0.00
NVNT	ANT1	802.11n(HT20)	2462.00	97.06	0.13
NVNT	ANT1	802.11n(HT40)	2422.00	94.29	0.26
NVNT	ANT1	802.11n(HT40)	2437.00	97.14	0.13
NVNT	ANT1	802.11n(HT40)	2452.00	94.29	0.26

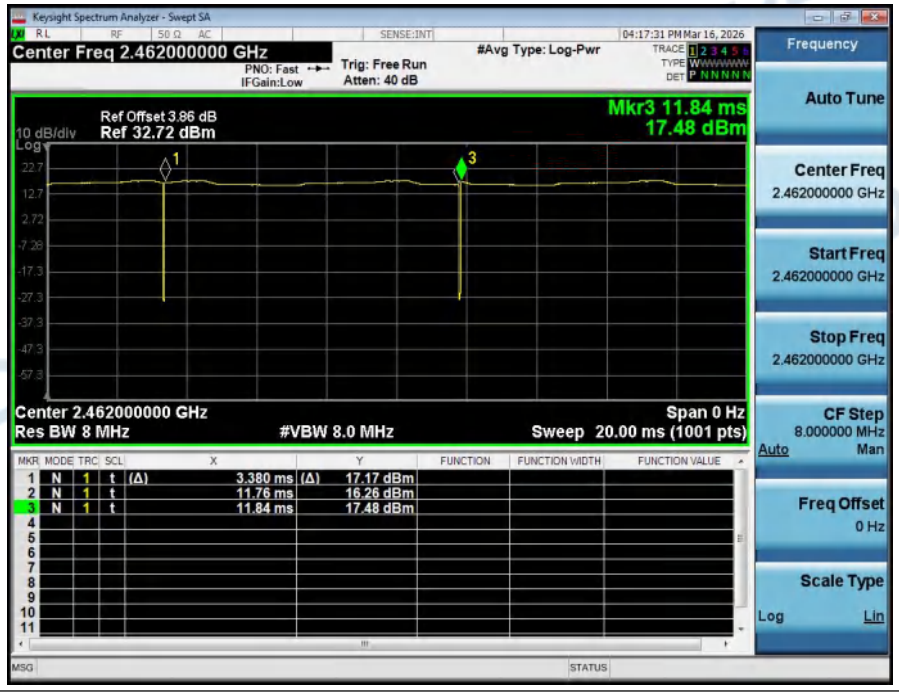
Duty_Cycle_NVNT_ANT1_802_11b_2412



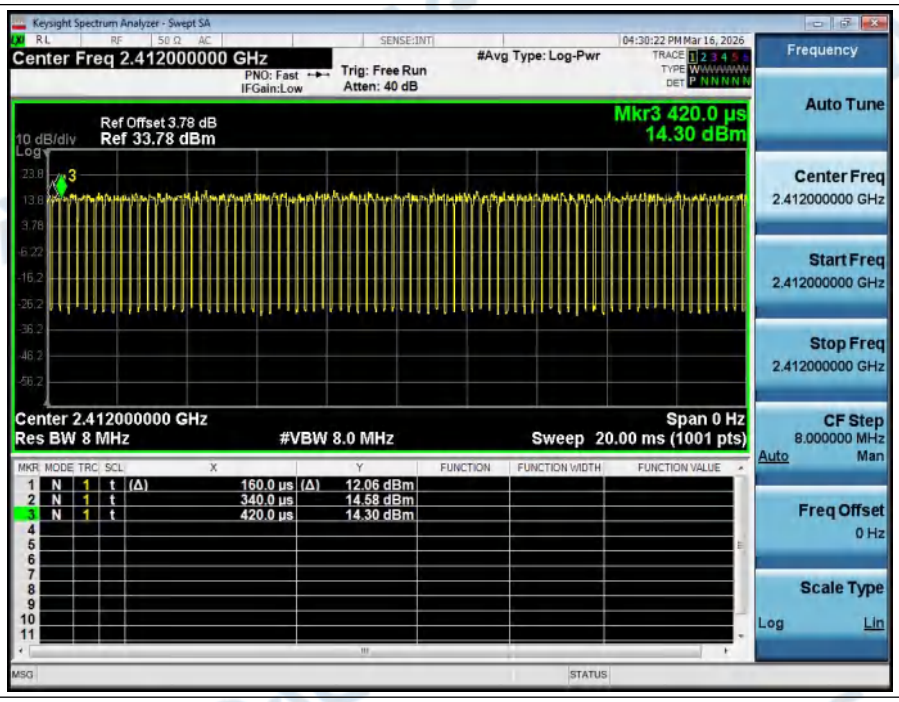
Duty_Cycle_NVNT_ANT1_802_11b_2437



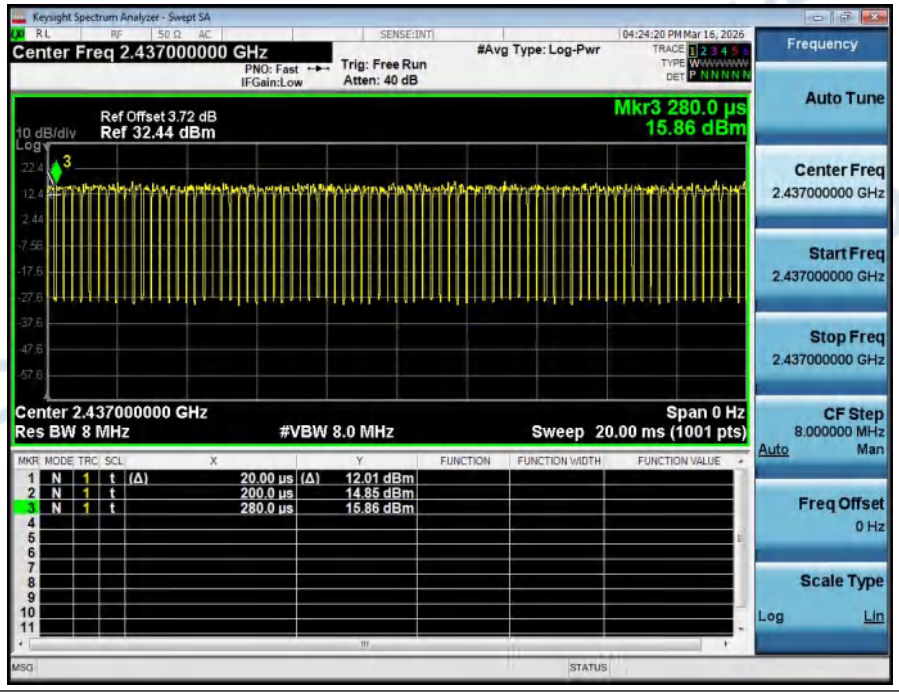
Duty_Cycle_NVNT_ANT1_802_11b_2462

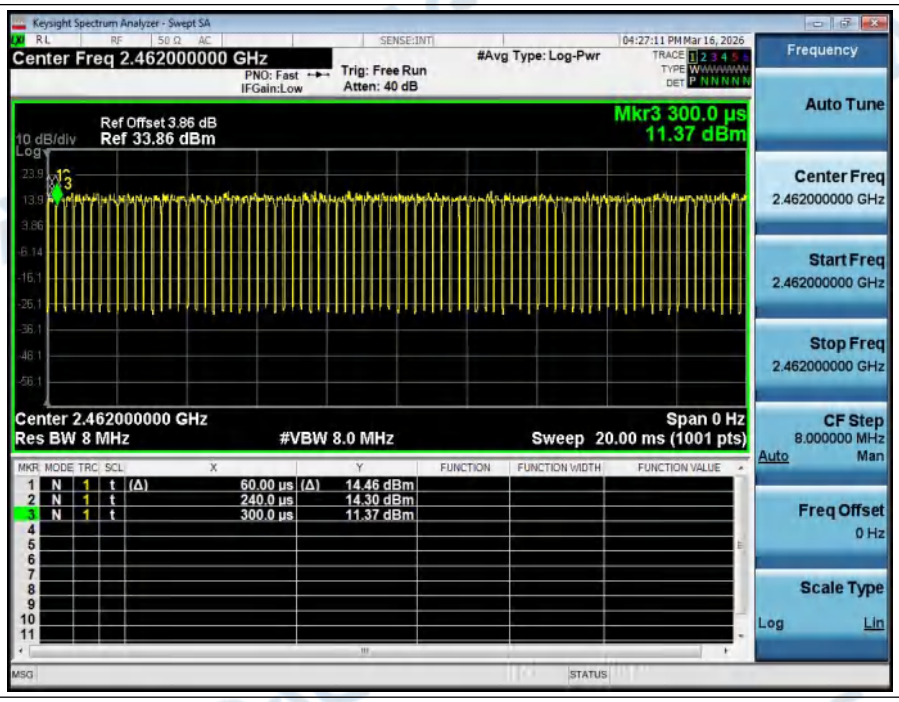


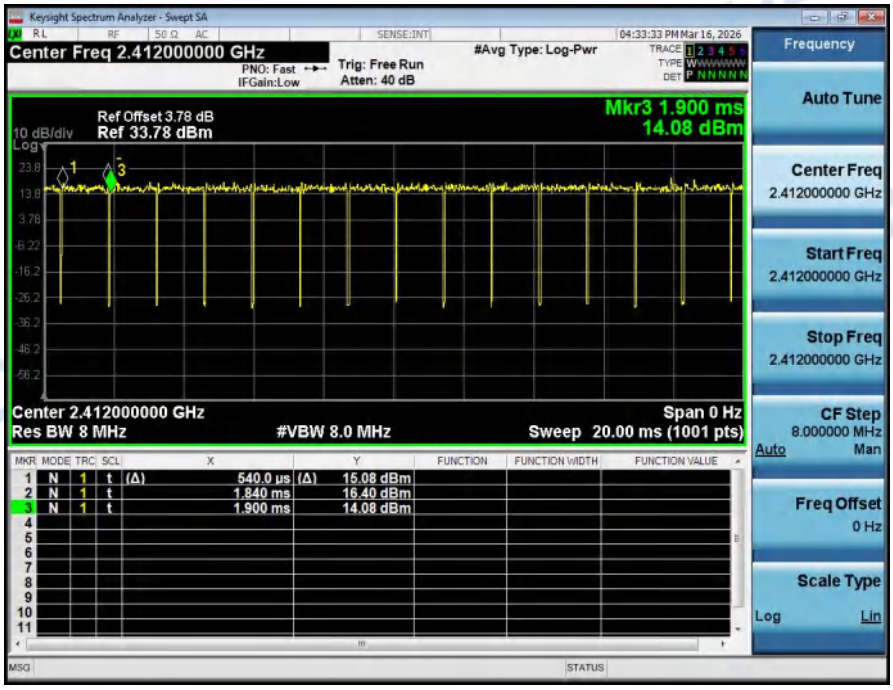
Duty_Cycle_NVNT_ANT1_802_11g_2412



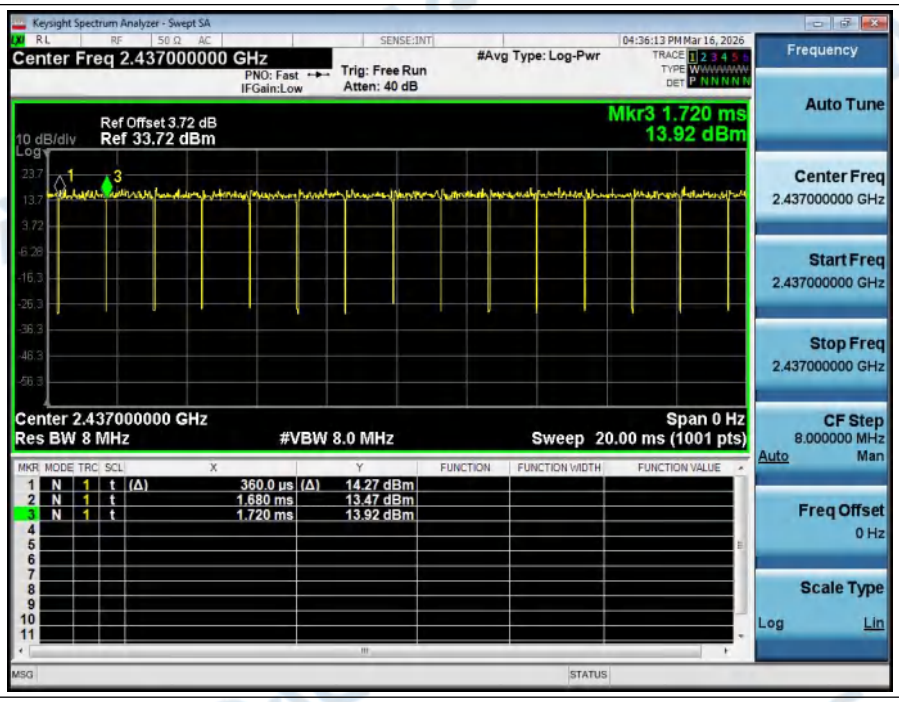
Duty_Cycle_NVNT_ANT1_802_11g_2437



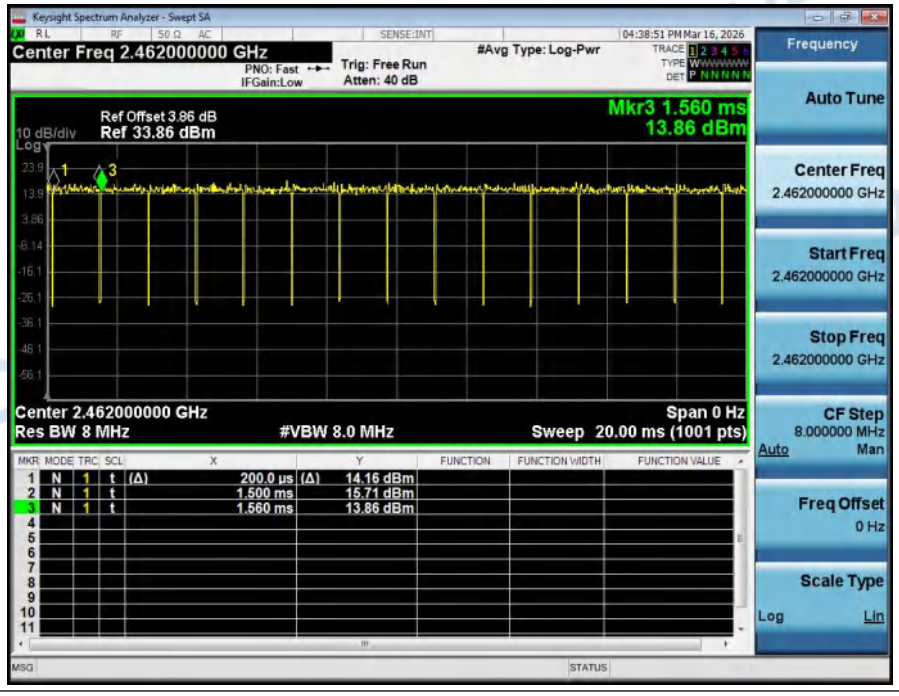
Duty_Cycle_NVNT_ANT1_802_11g_2462


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412


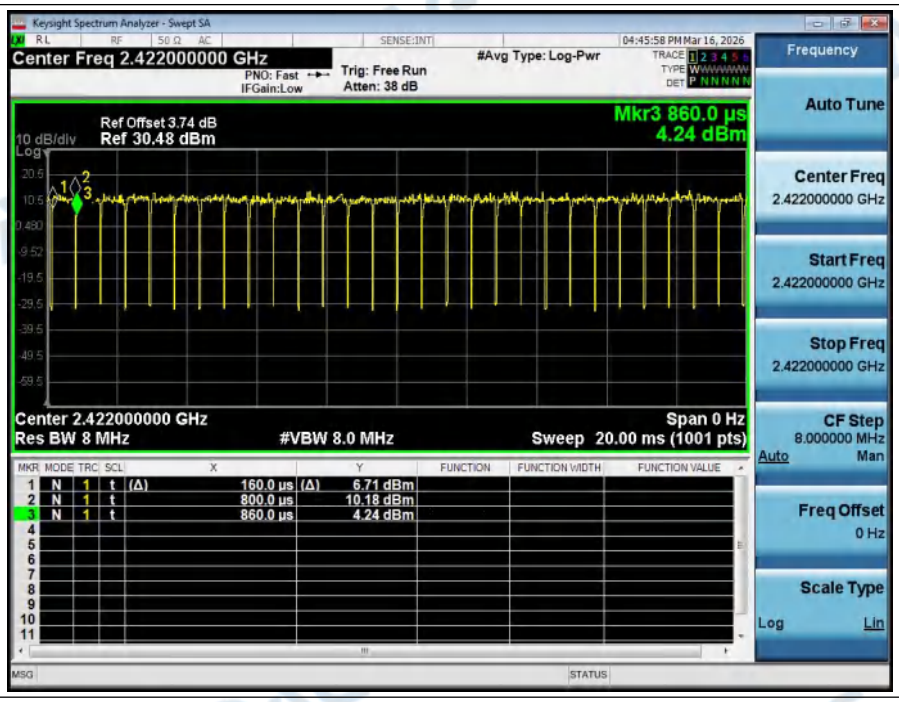
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



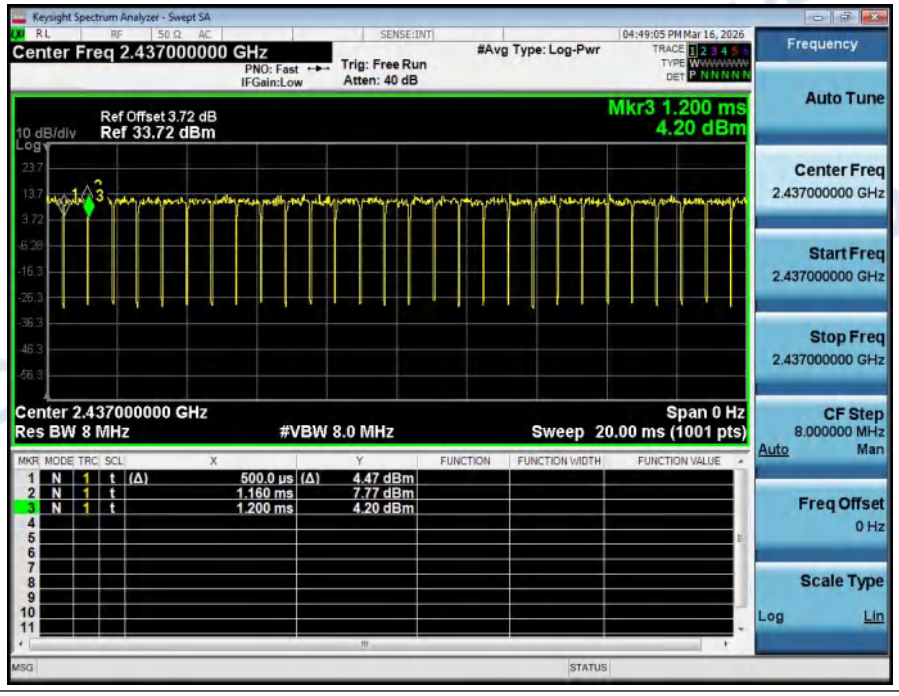
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462

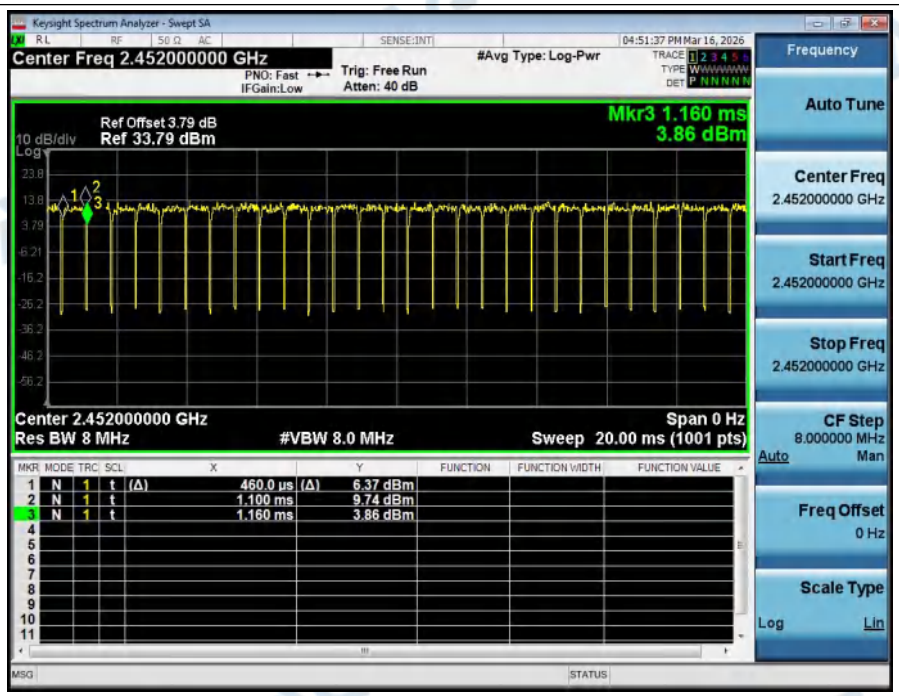


Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437

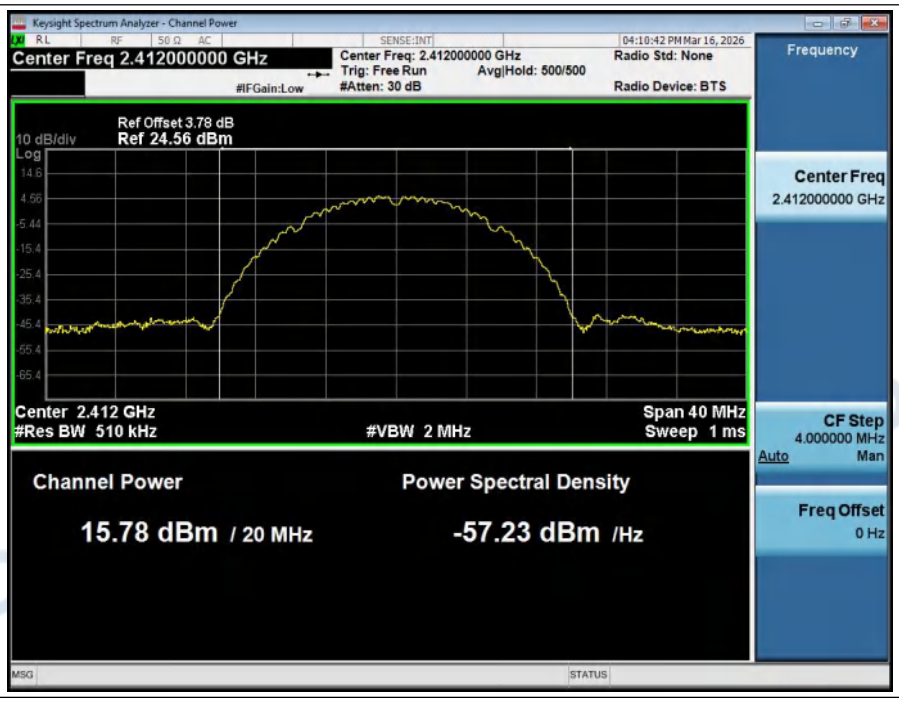


Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452


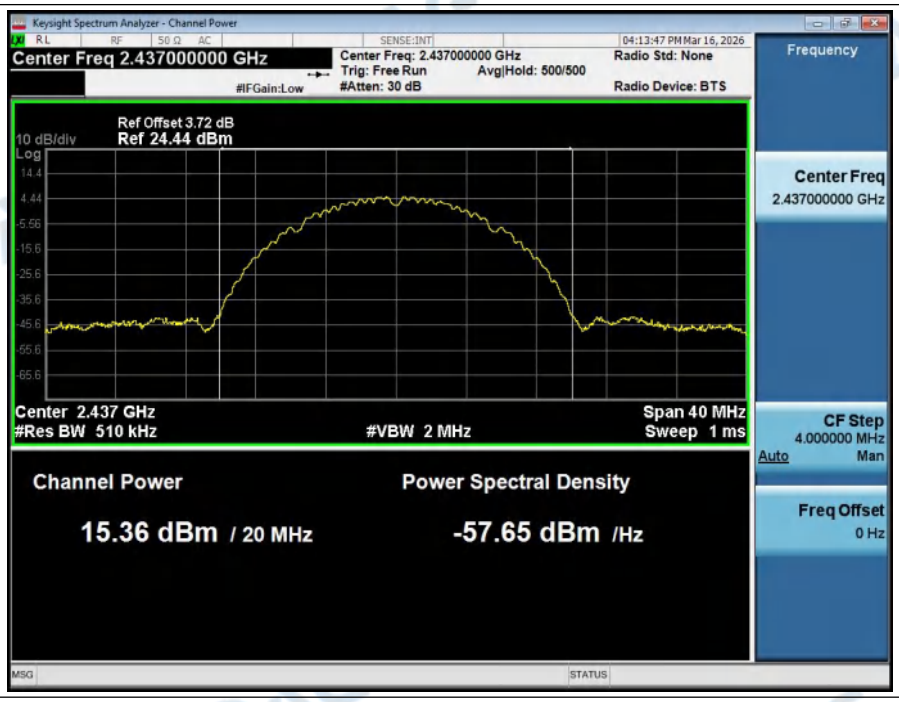
4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	15.78	N/A	15.78	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	15.36	N/A	15.36	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	15.27	N/A	15.27	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	16.99	N/A	16.99	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	16.70	N/A	16.70	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	16.71	N/A	16.71	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	15.68	N/A	15.68	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	15.39	N/A	15.39	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	15.25	N/A	15.25	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	15.76	N/A	15.76	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	15.60	N/A	15.60	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	15.61	N/A	15.61	30	Pass

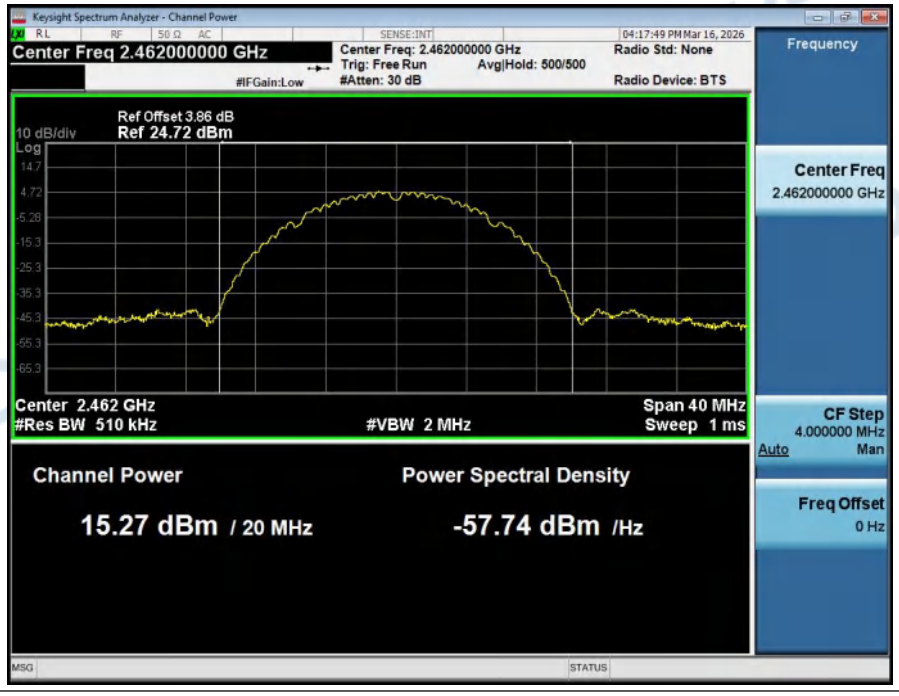
MAX__Output_Power_NVNT_ANT1_802_11b_2412



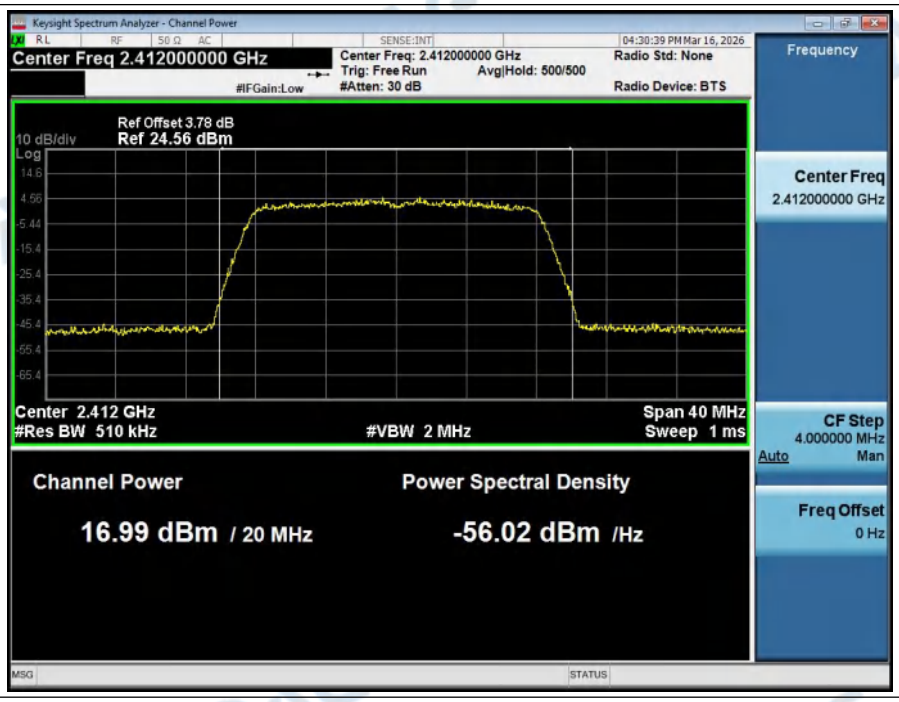
MAX__Output_Power_NVNT_ANT1_802_11b_2437



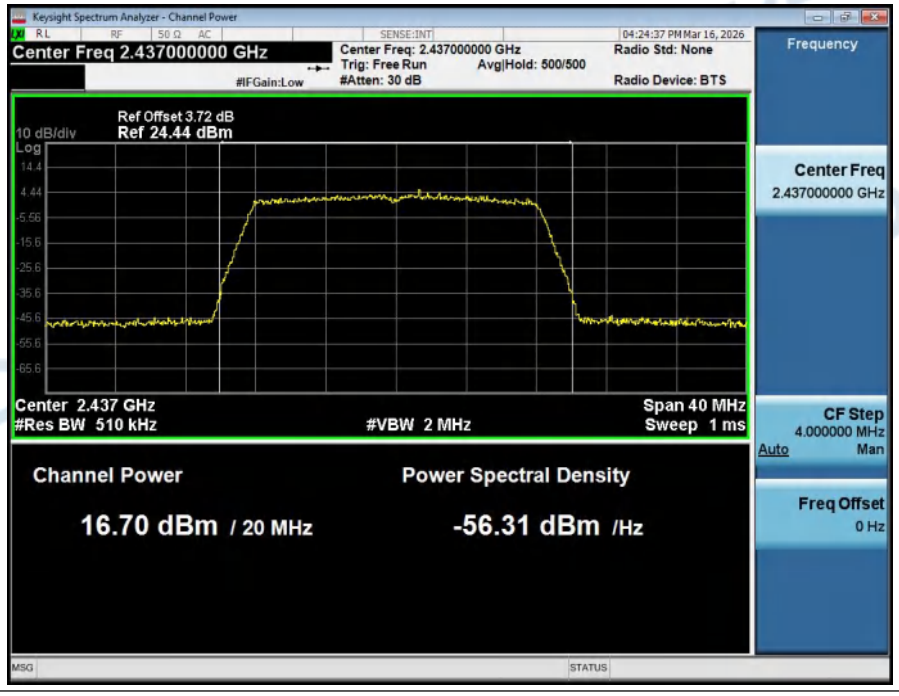
MAX__Output_Power_NVNT_ANT1_802_11b_2462

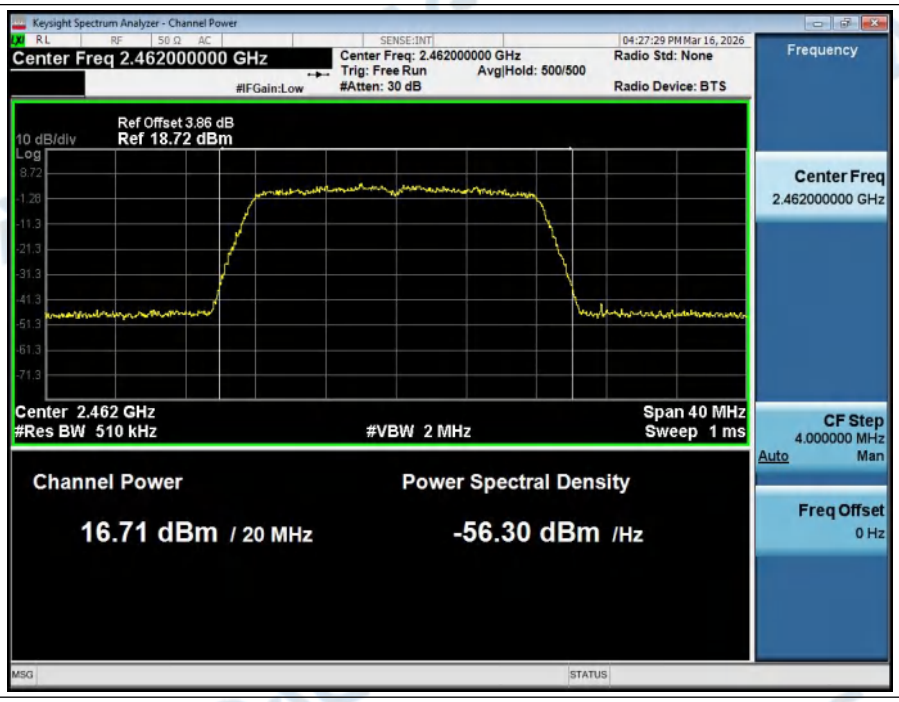


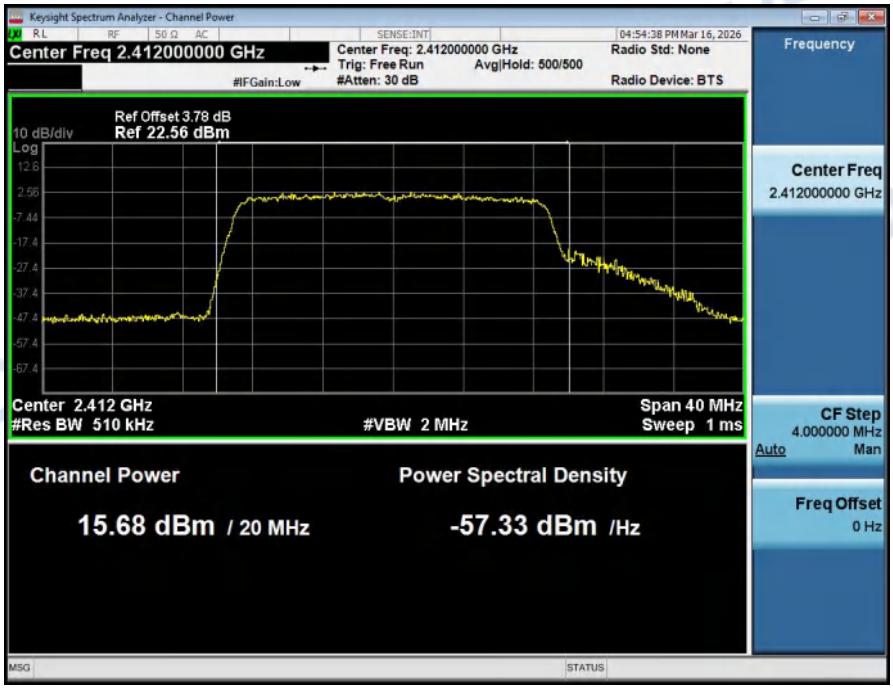
MAX__Output_Power_NVNT_ANT1_802_11g_2412

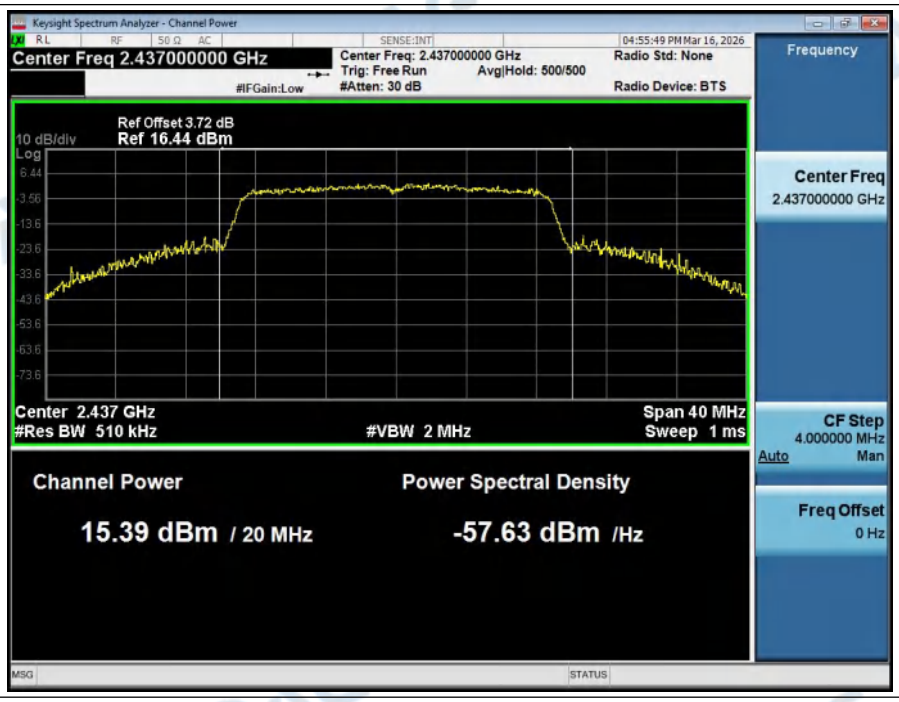


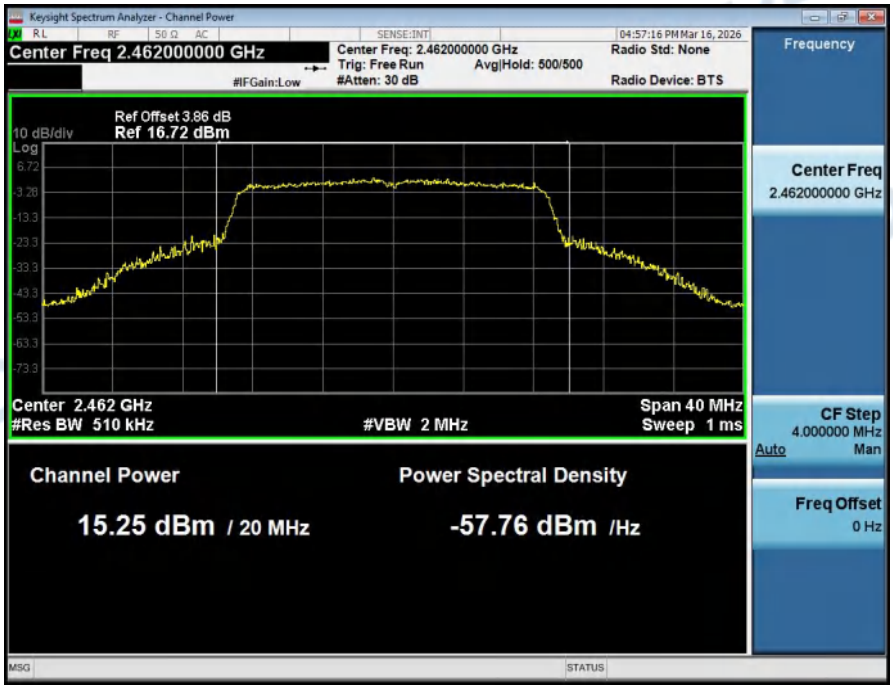
MAX__Output_Power_NVNT_ANT1_802_11g_2437

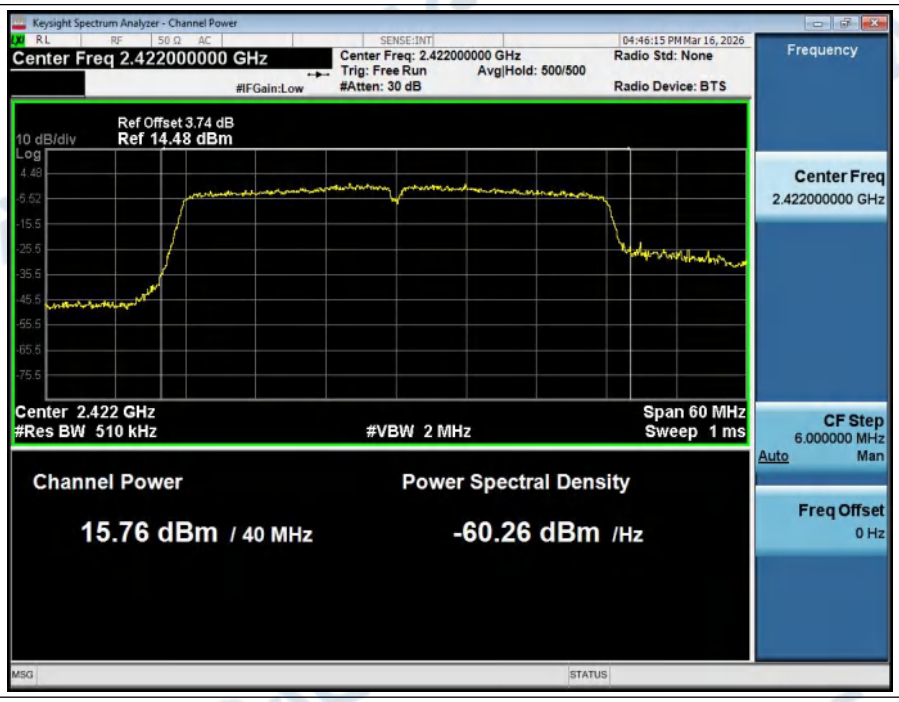


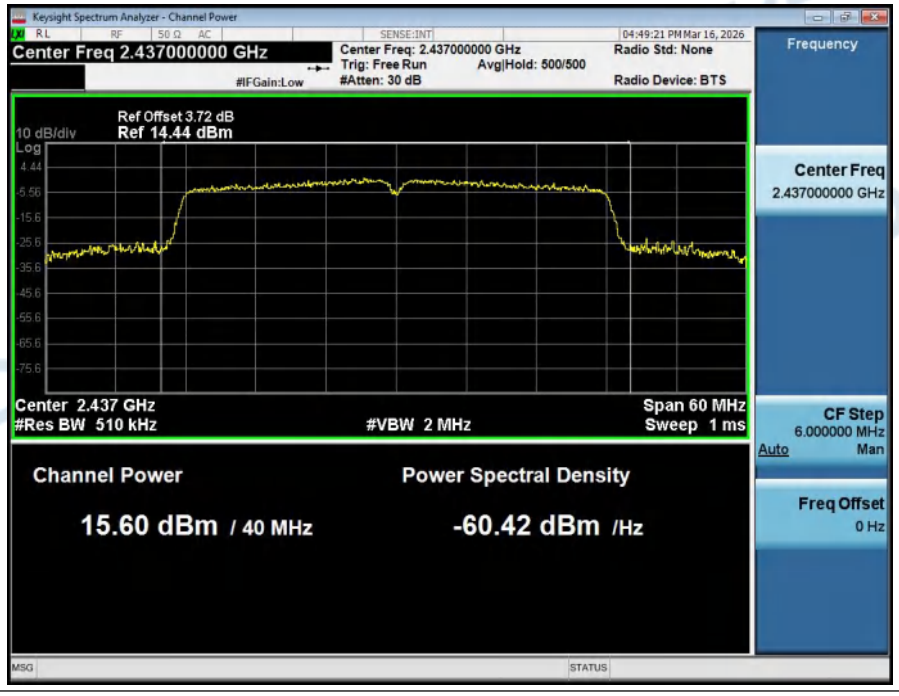
MAX__Output_Power_NVNT_ANT1_802_11g_2462


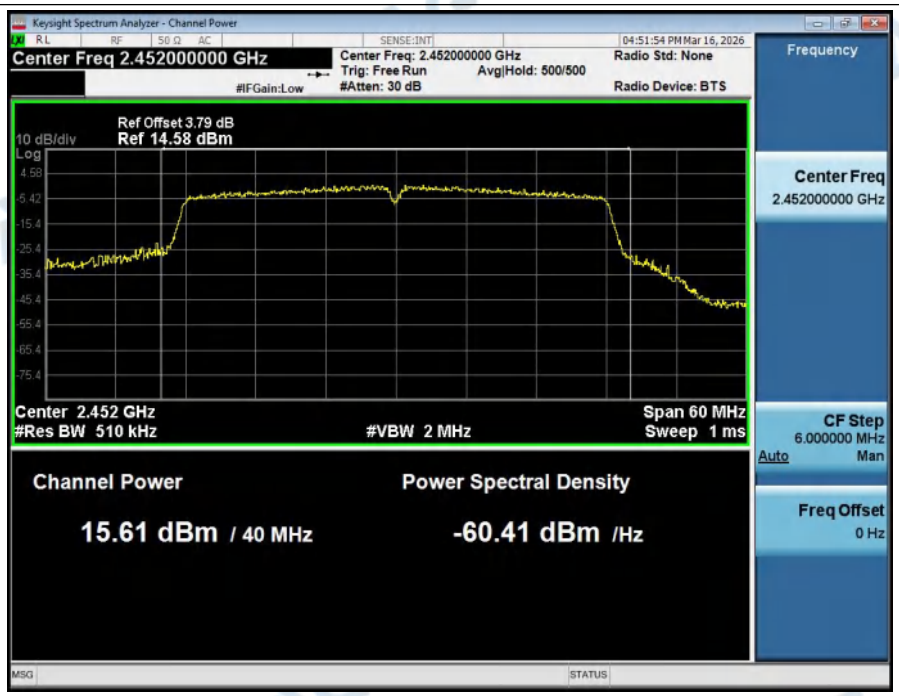
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2412


MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437


MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462


MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2422


MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2437


MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2452


5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	0.55	8	Pass
NVNT	ANT1	802.11b	2437.00	1.49	8	Pass
NVNT	ANT1	802.11b	2462.00	0.79	8	Pass
NVNT	ANT1	802.11g	2412.00	-4.84	8	Pass
NVNT	ANT1	802.11g	2437.00	-5.46	8	Pass
NVNT	ANT1	802.11g	2462.00	-5.74	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-4.44	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-3.95	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-3.42	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-9.41	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-9.11	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-9.29	8	Pass

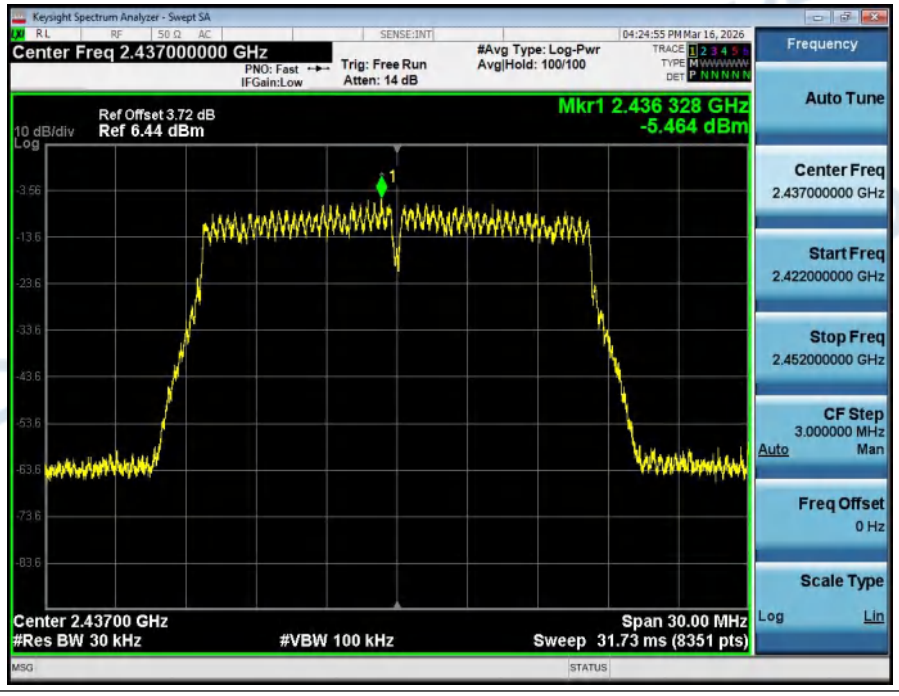
Power_Spectral_Density_NVNT_ANT1_802_11b_2412

Power_Spectral_Density_NVNT_ANT1_802_11b_2437

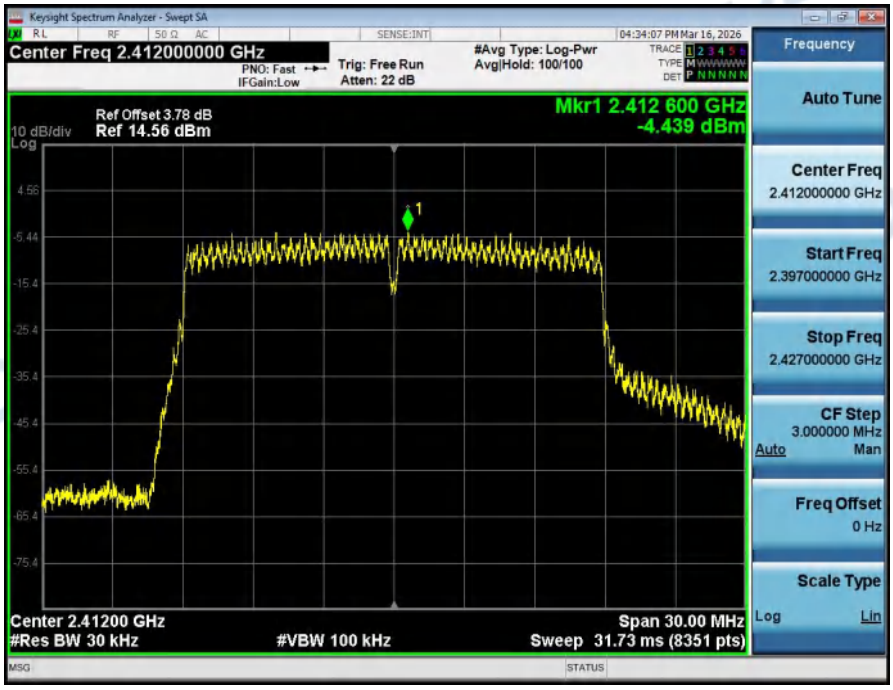
Power_Spectral_Density_NVNT_ANT1_802_11b_2462

Power_Spectral_Density_NVNT_ANT1_802_11g_2412

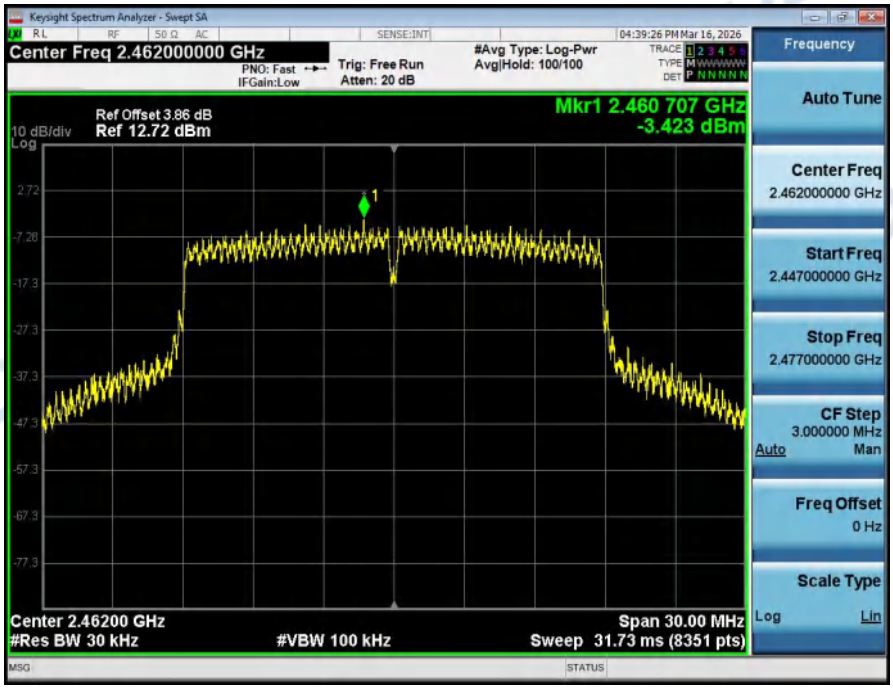
Power_Spectral_Density_NVNT_ANT1_802_11g_2437



Power_Spectral_Density_NVNT_ANT1_802_11g_2462

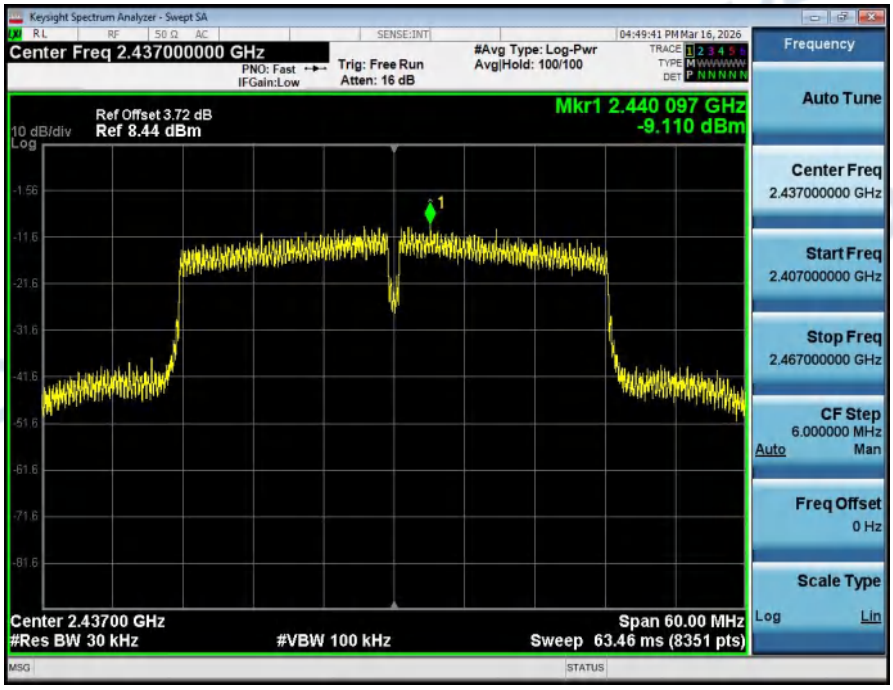

Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462


Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422

Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



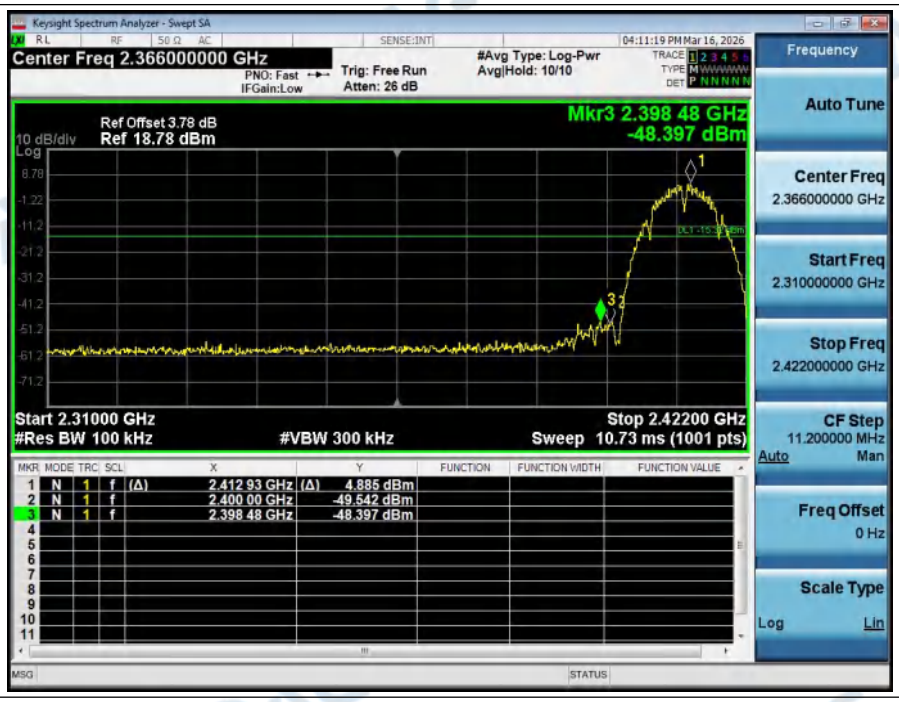
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2452


6. Bandedge

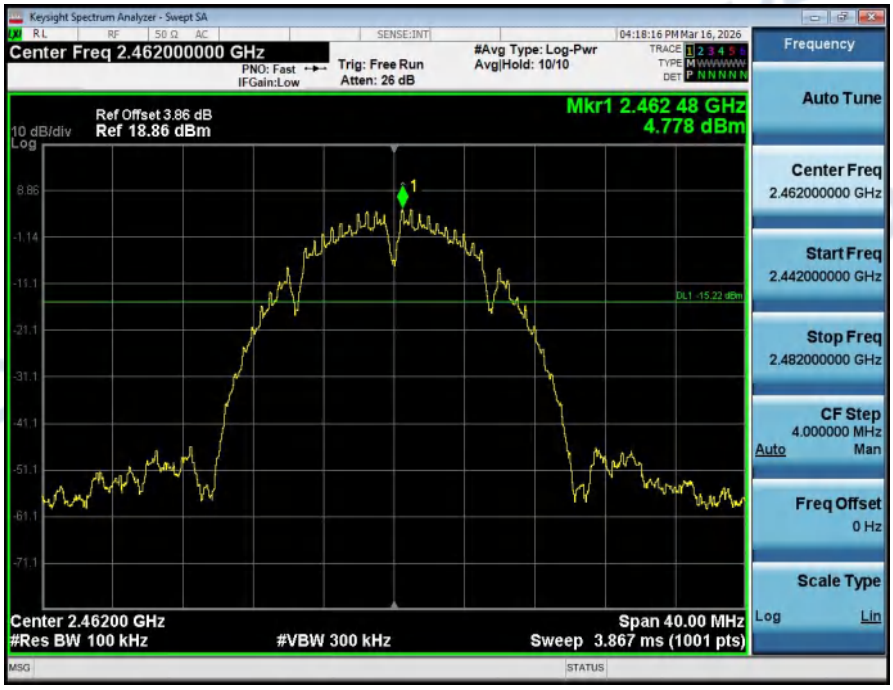
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2398.480	4.681	-48.397	-15.319	Pass
NVNT	ANT1	802.11b	2462.00	2483.968	4.778	-55.575	-15.222	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	-1.258	-53.497	-21.258	Pass
NVNT	ANT1	802.11g	2462.00	2493.232	-1.142	-55.650	-21.142	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2397.920	0.992	-52.924	-19.008	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2487.280	0.549	-55.212	-19.451	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2393.292	-4.005	-54.391	-24.005	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.564	-4.246	-54.717	-24.246	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412

2_Bandedge_NVNT_ANT1_802_11b_2412

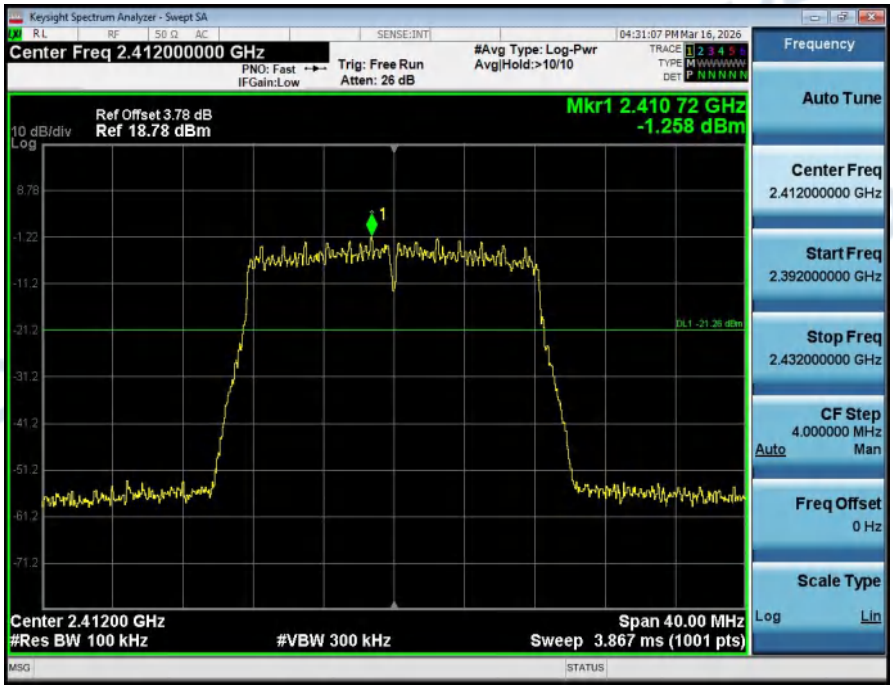


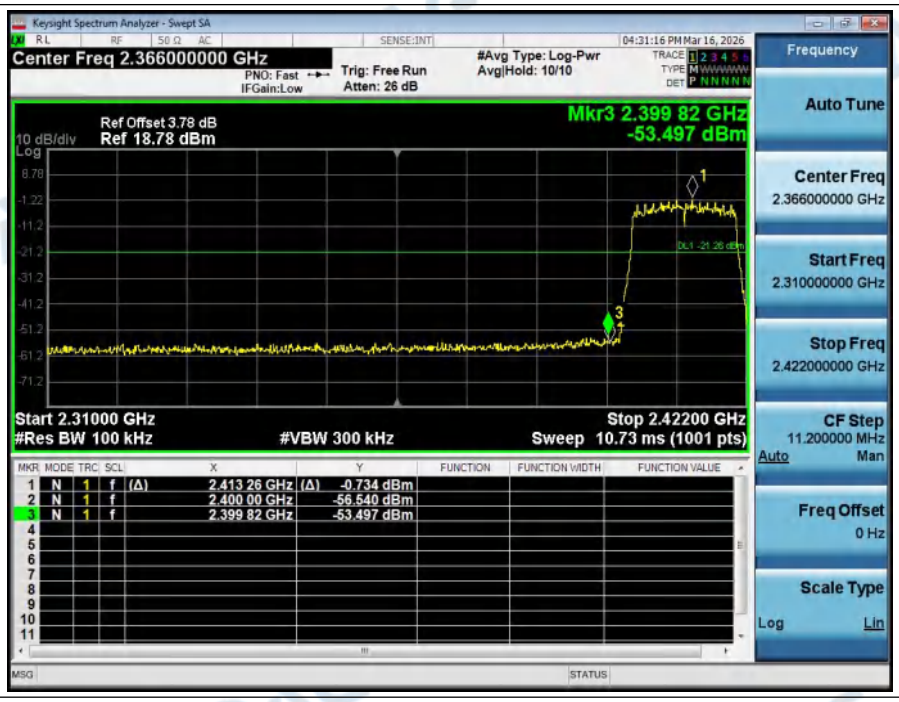
1_Reference_Level_NVNT_ANT1_802_11b_2462

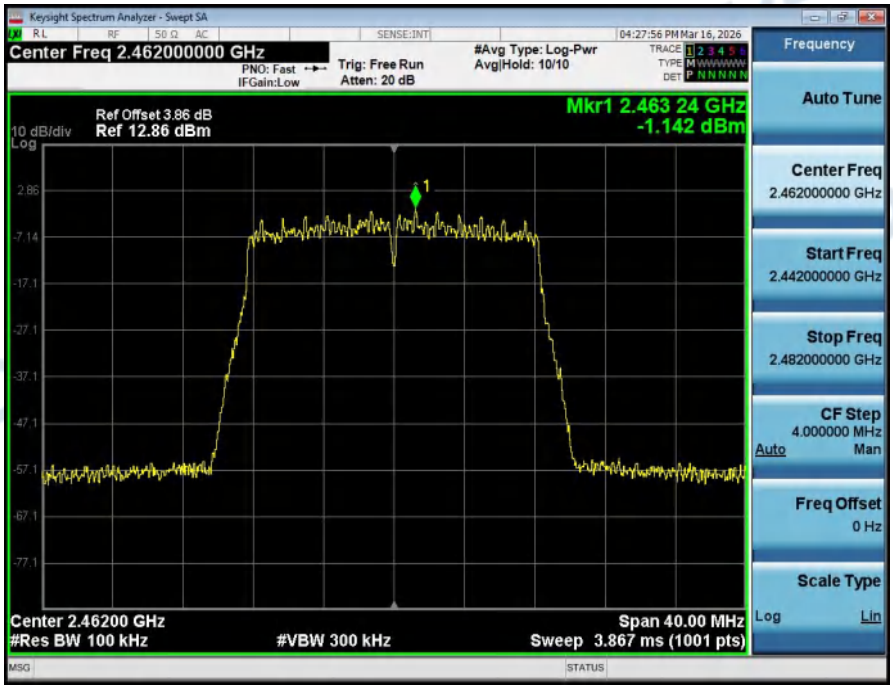


2_Bandedge_NVNT_ANT1_802_11b_2462

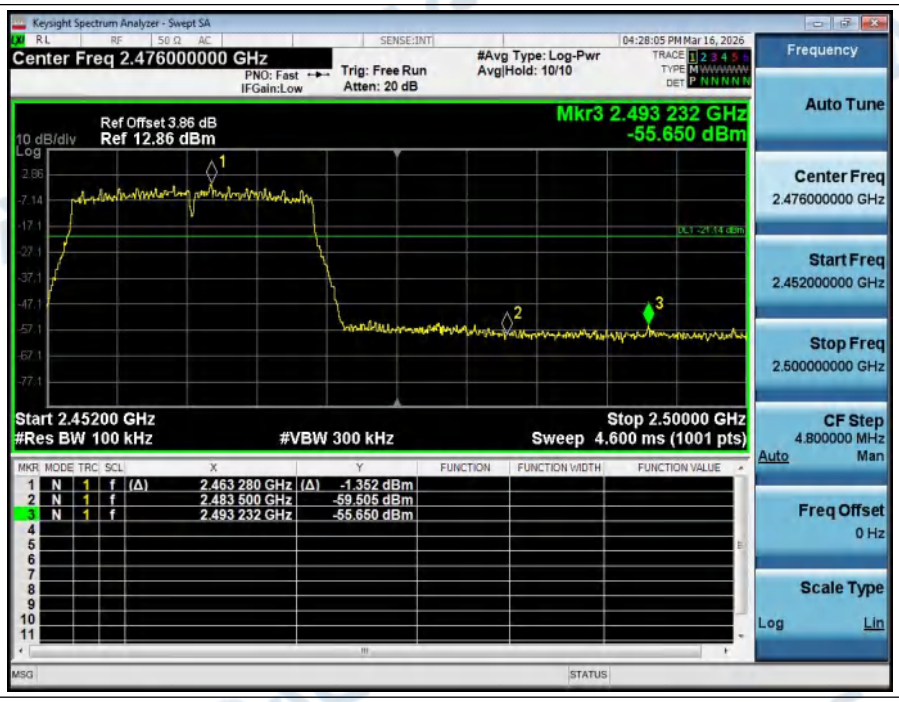
1_Reference_Level_NVNT_ANT1_802_11g_2412



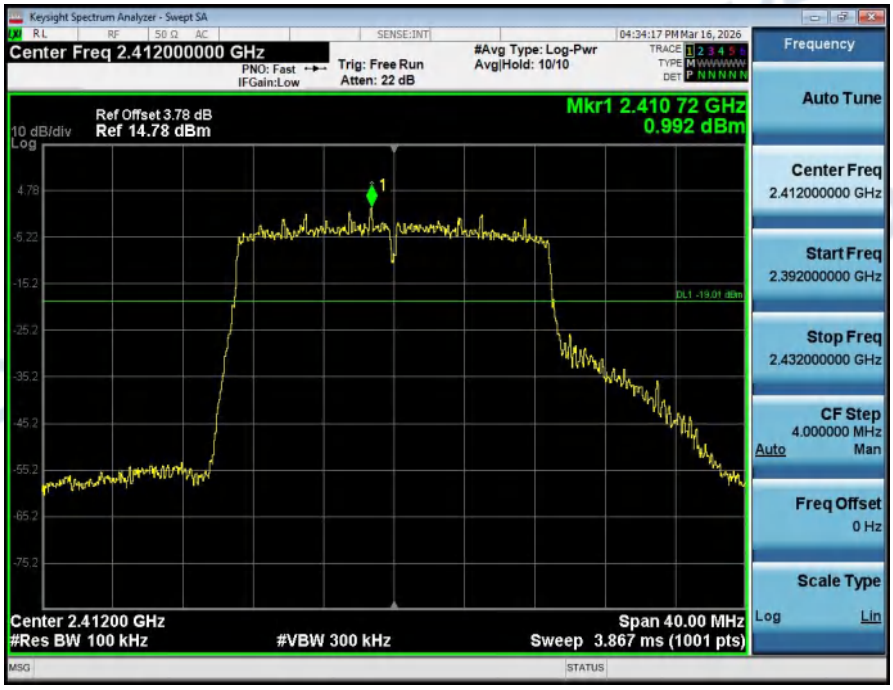
2_Bandedge_NVNT_ANT1_802_11g_2412


1_Reference_Level_NVNT_ANT1_802_11g_2462


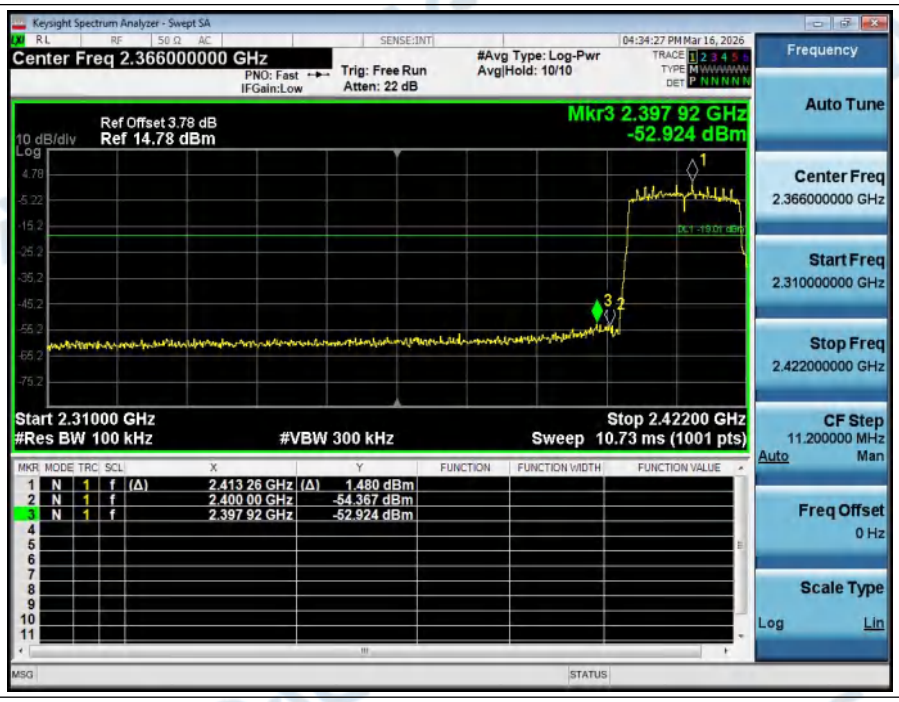
2_Bandedge_NVNT_ANT1_802_11g_2462



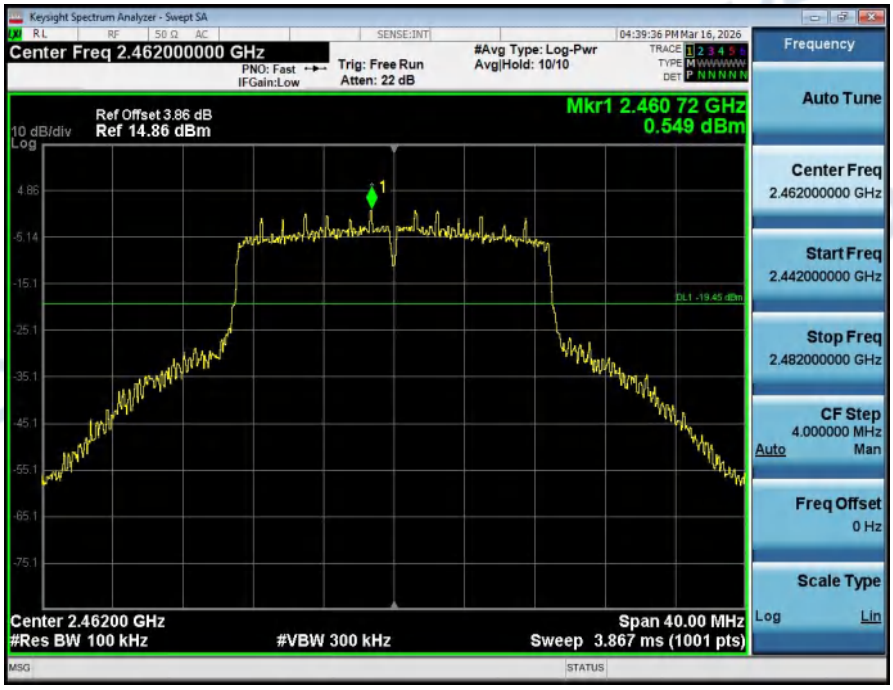
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412

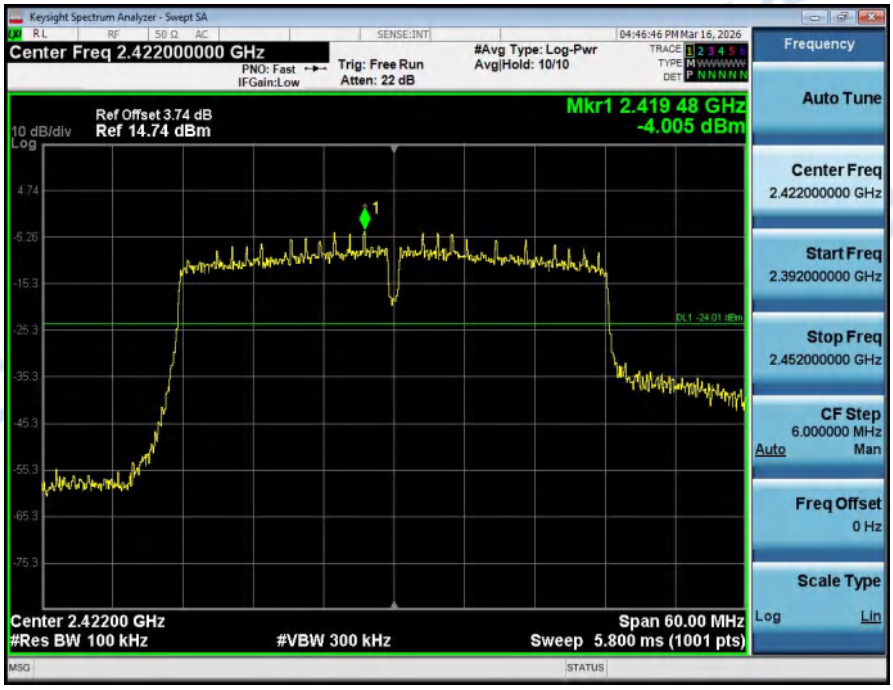


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462

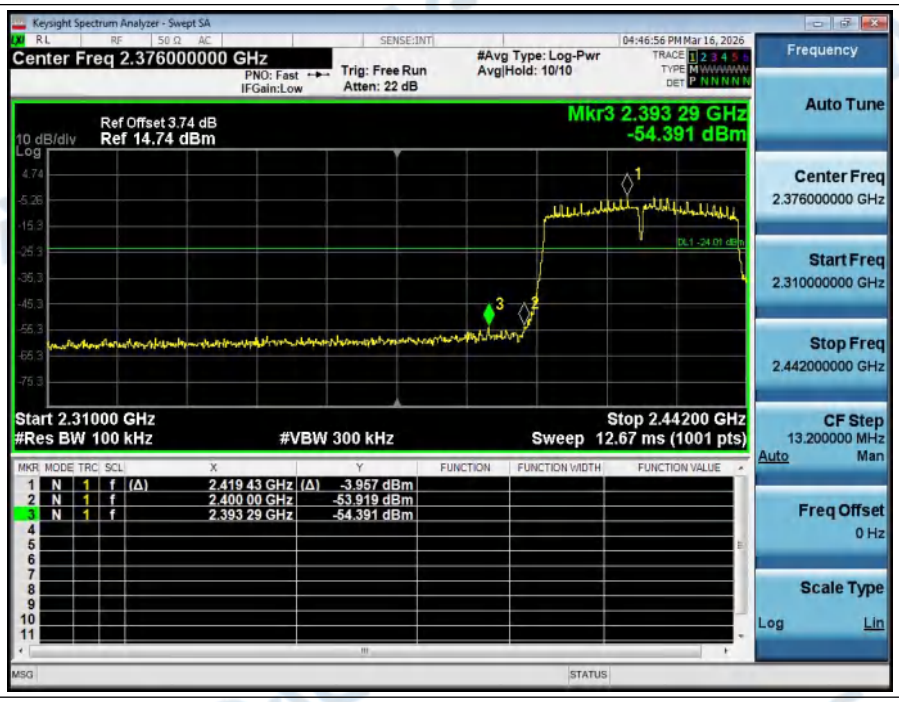


2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462

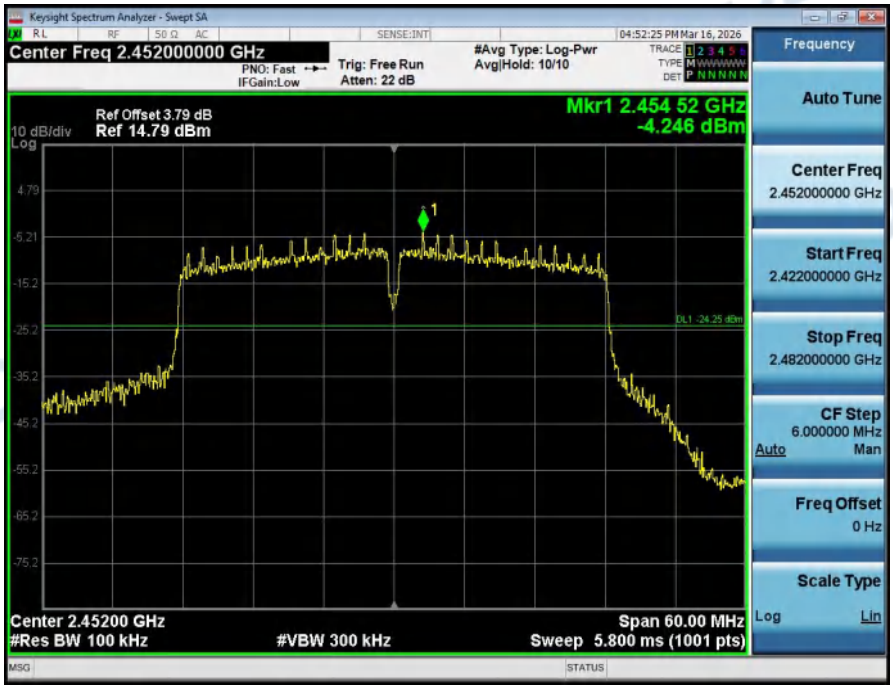
1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



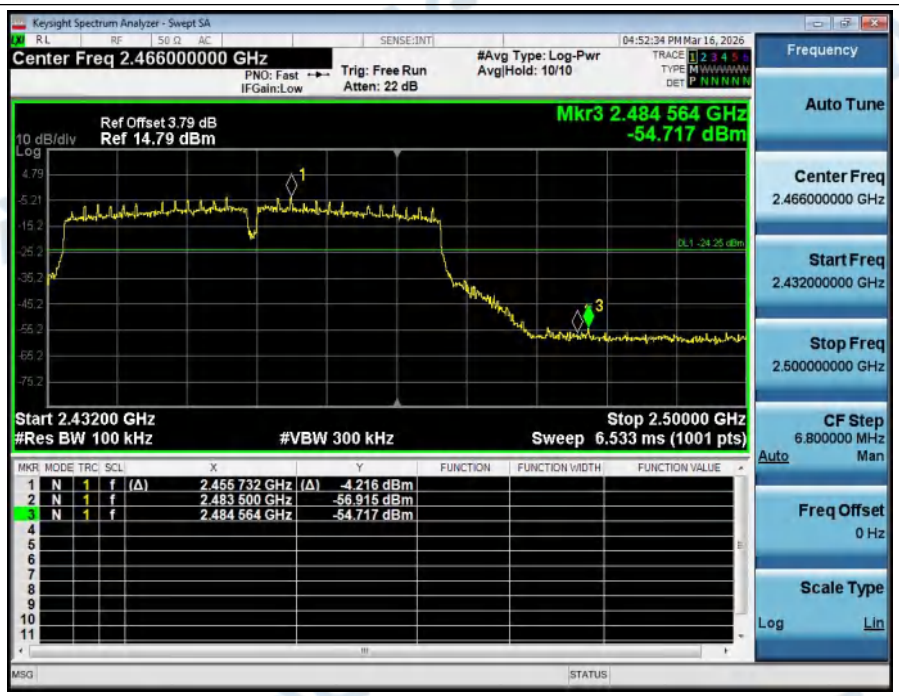
2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452

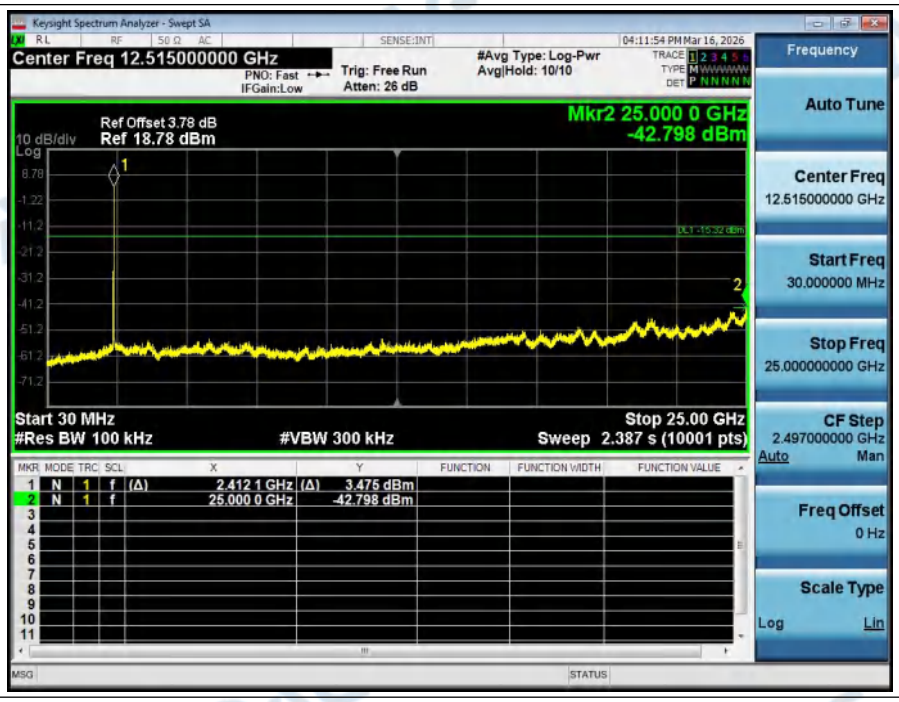


7. Spurious Emission

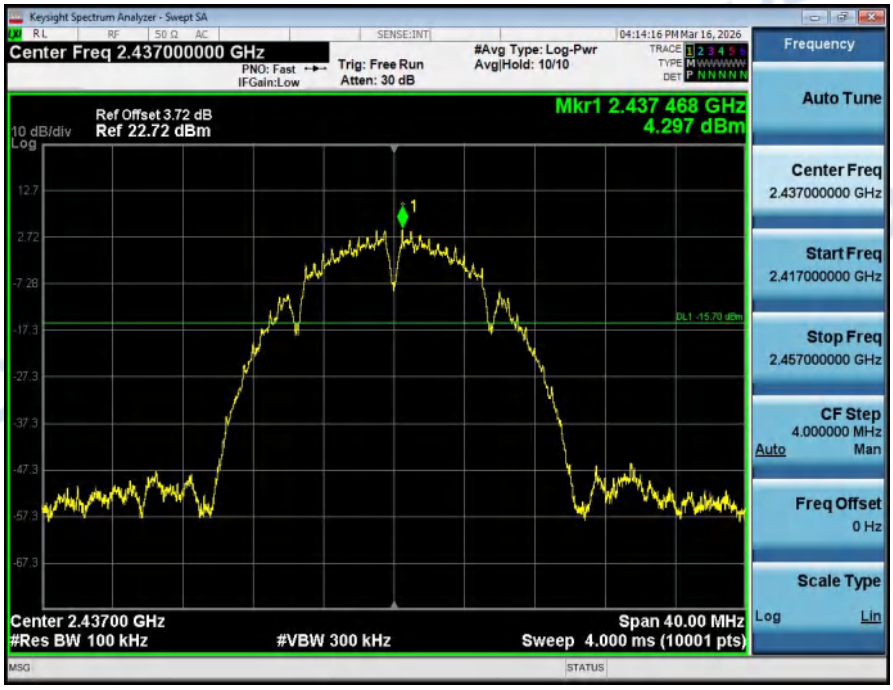
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	25000.000	4.681	-42.798	-15.319	Pass
NVNT	ANT1	802.11b	2437.00	24942.569	4.297	-39.850	-15.703	Pass
NVNT	ANT1	802.11b	2462.00	24977.527	4.778	-43.524	-15.222	Pass
NVNT	ANT1	802.11g	2412.00	24970.036	-1.258	-42.558	-21.258	Pass
NVNT	ANT1	802.11g	2437.00	24518.079	-1.484	-49.919	-21.484	Pass
NVNT	ANT1	802.11g	2462.00	24428.187	-1.142	-49.699	-21.142	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24972.533	0.992	-47.917	-19.008	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24967.539	0.865	-48.014	-19.135	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24465.642	0.549	-47.592	-19.451	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24960.048	-4.005	-47.973	-24.005	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24945.066	-4.399	-48.311	-24.399	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24980.024	-4.246	-46.697	-24.246	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412

2_Spurious_Emission_NVNT_ANT1_802_11b_2412



1_Reference_Level_NVNT_ANT1_802_11b_2437



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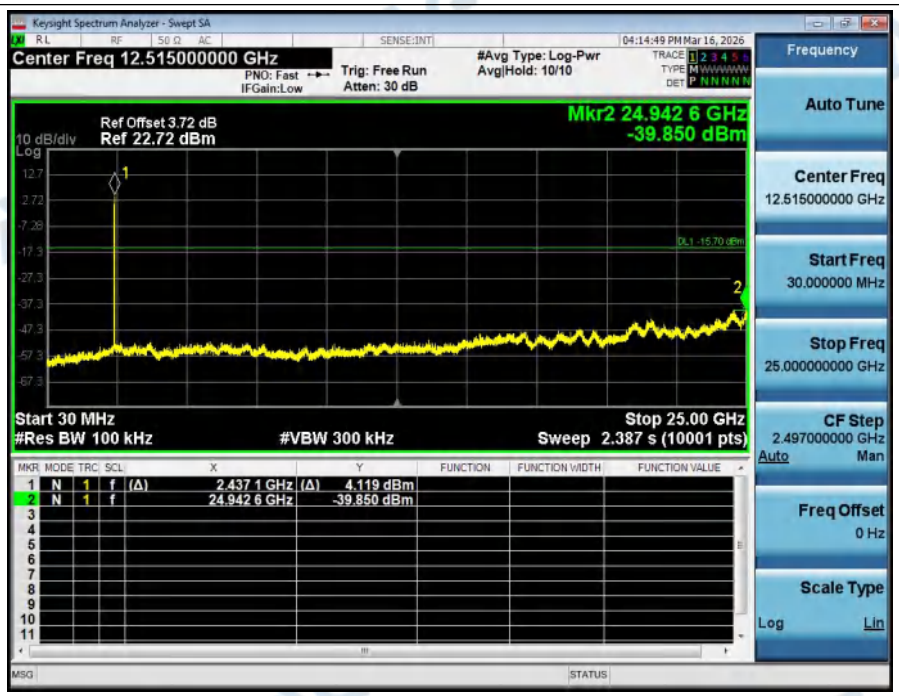

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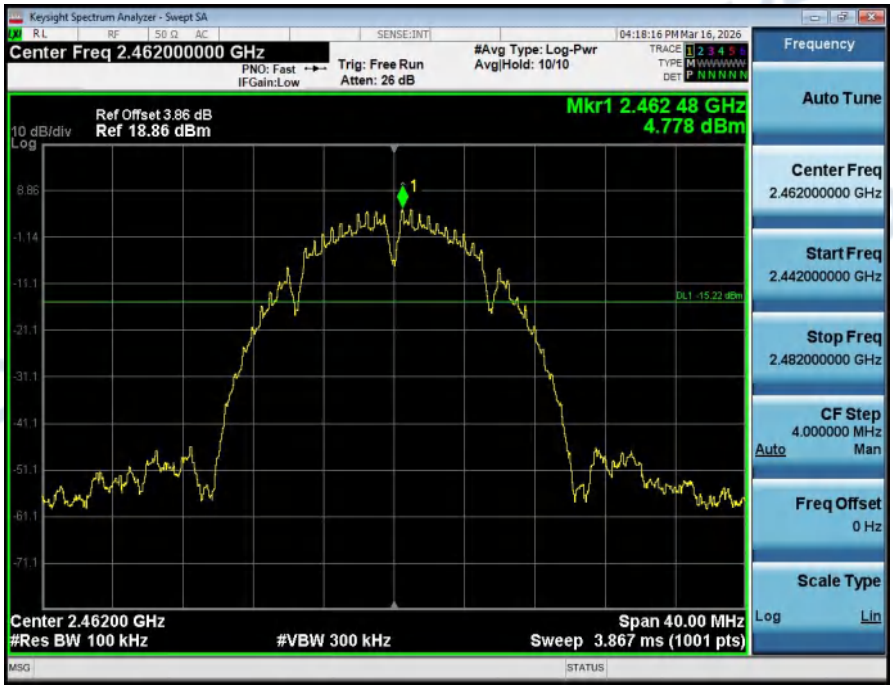

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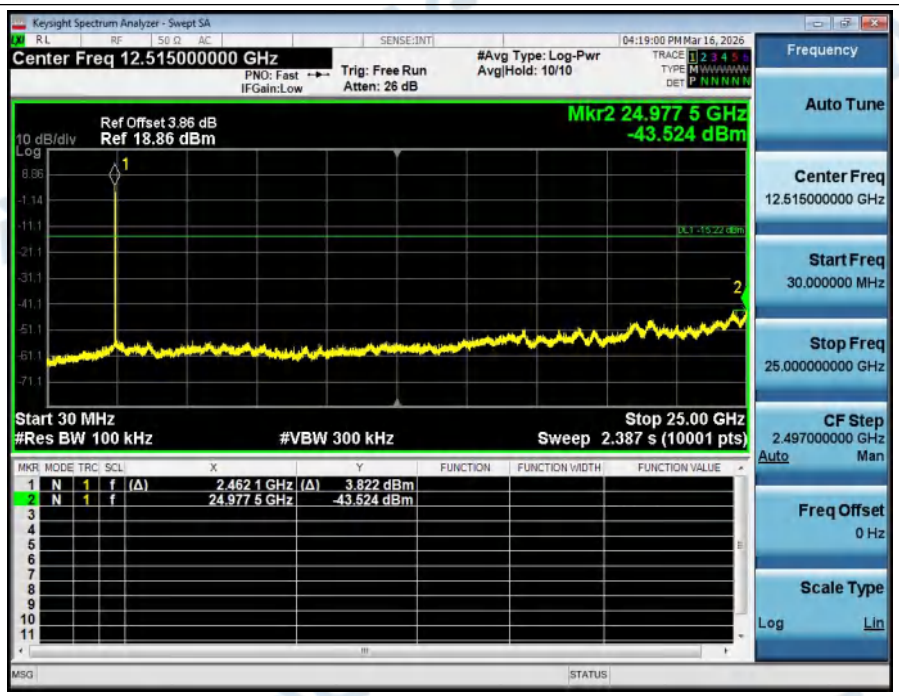
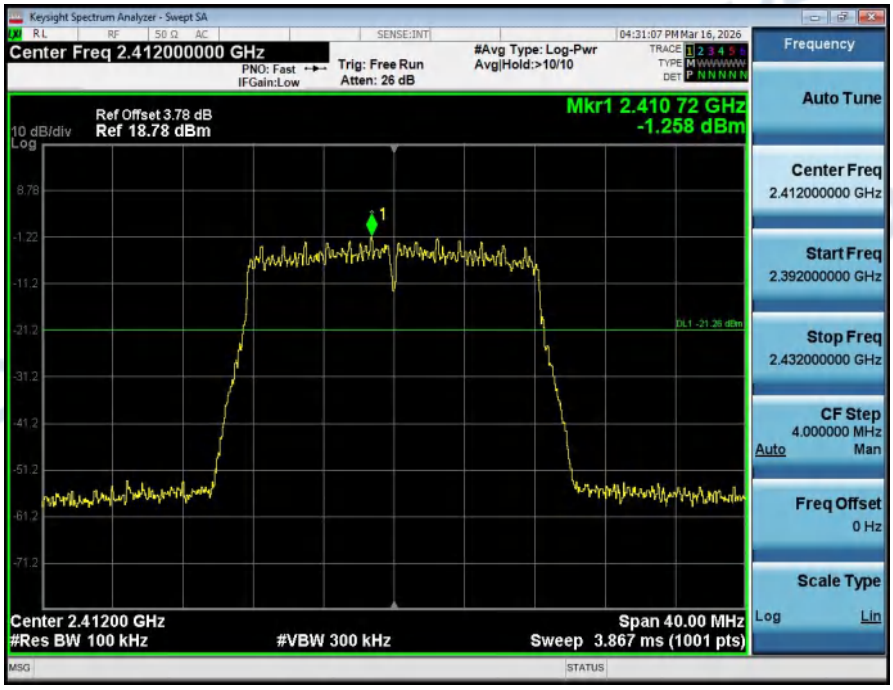


1_Reference_Level_NVNT_ANT1_802_11g_2412



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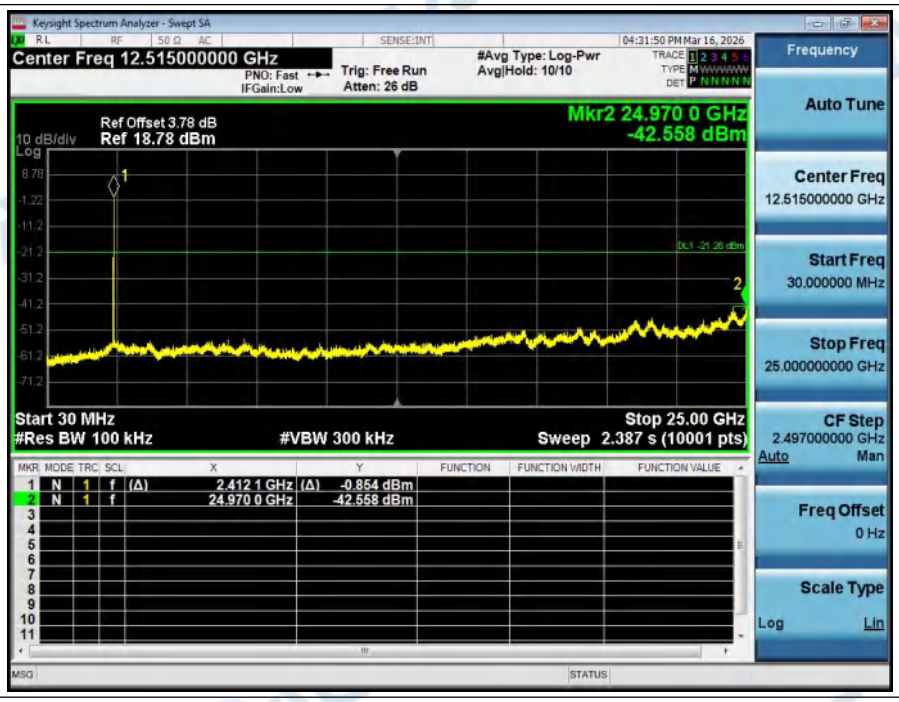

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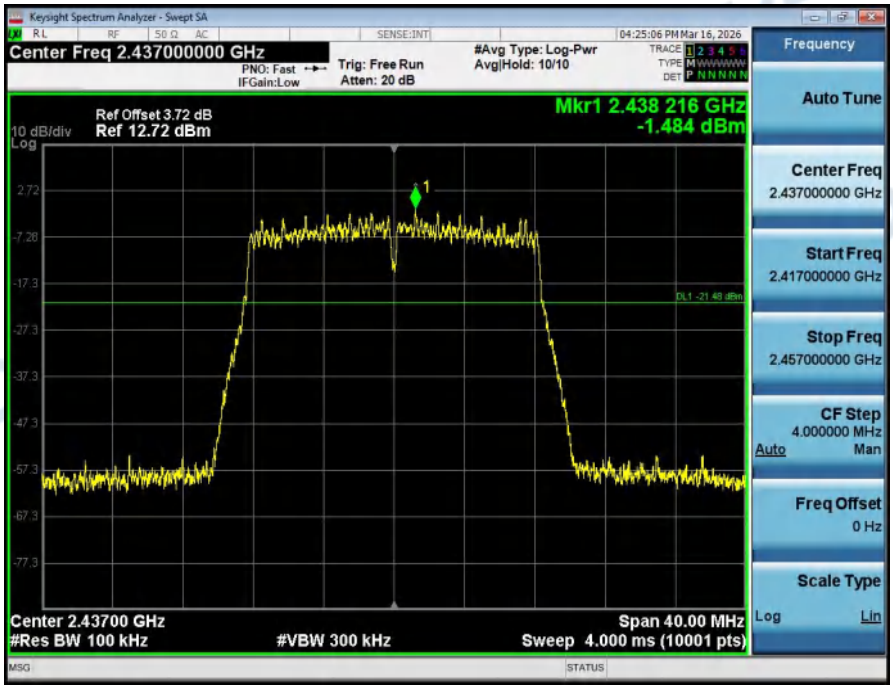

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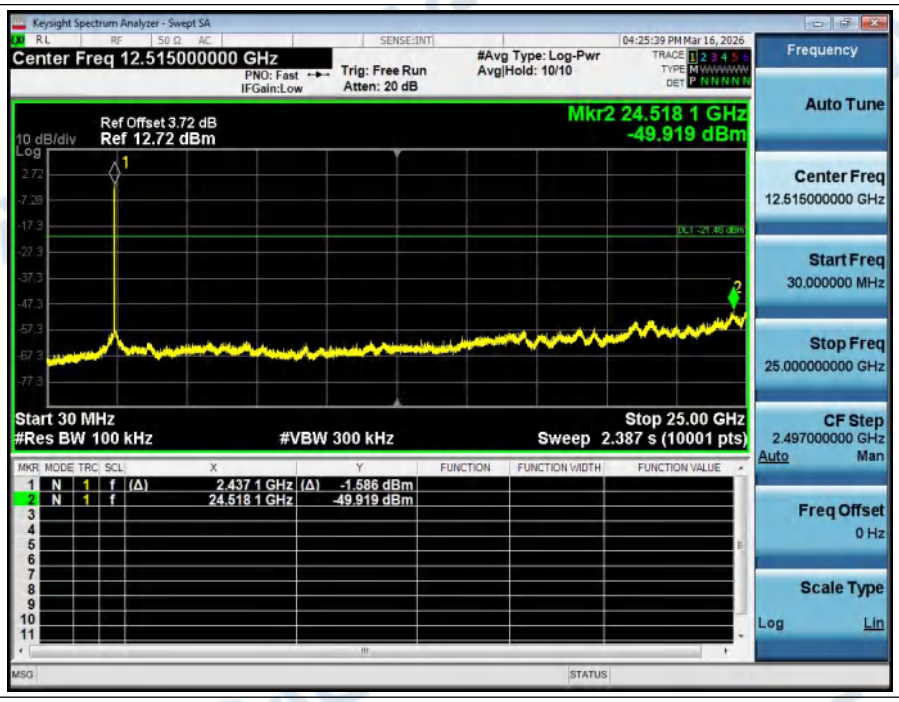

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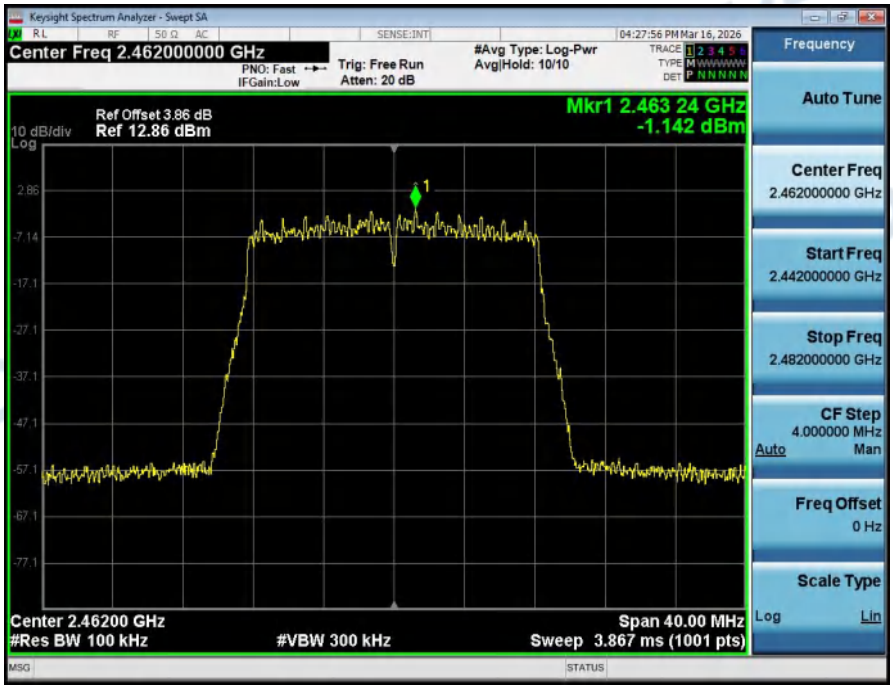

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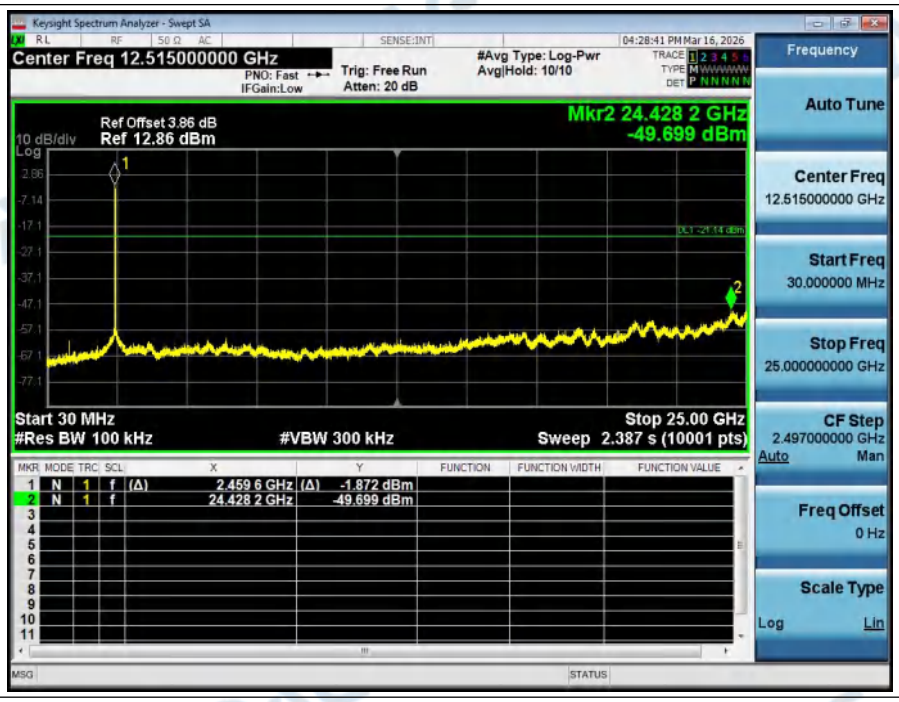
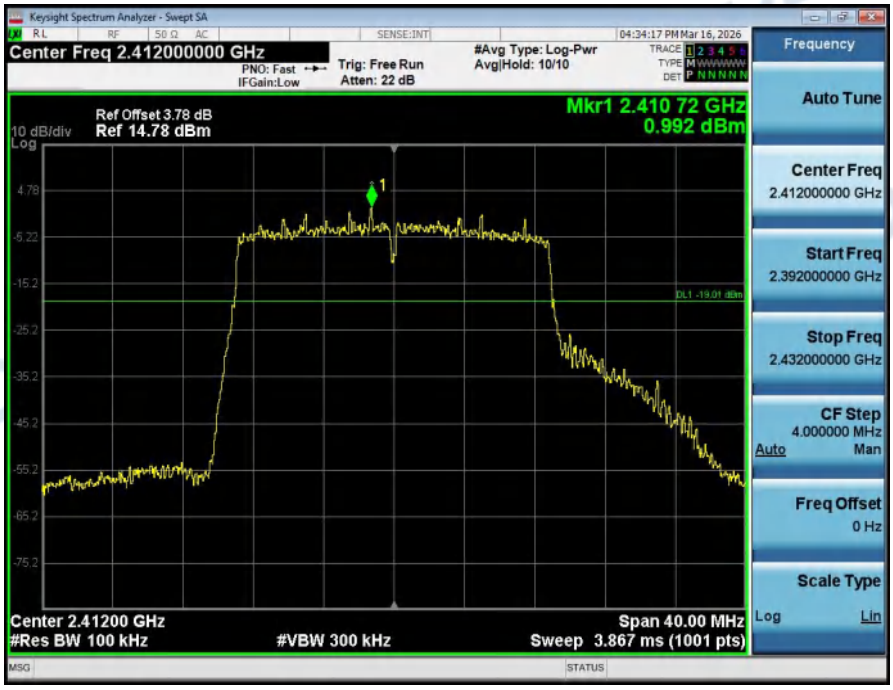


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



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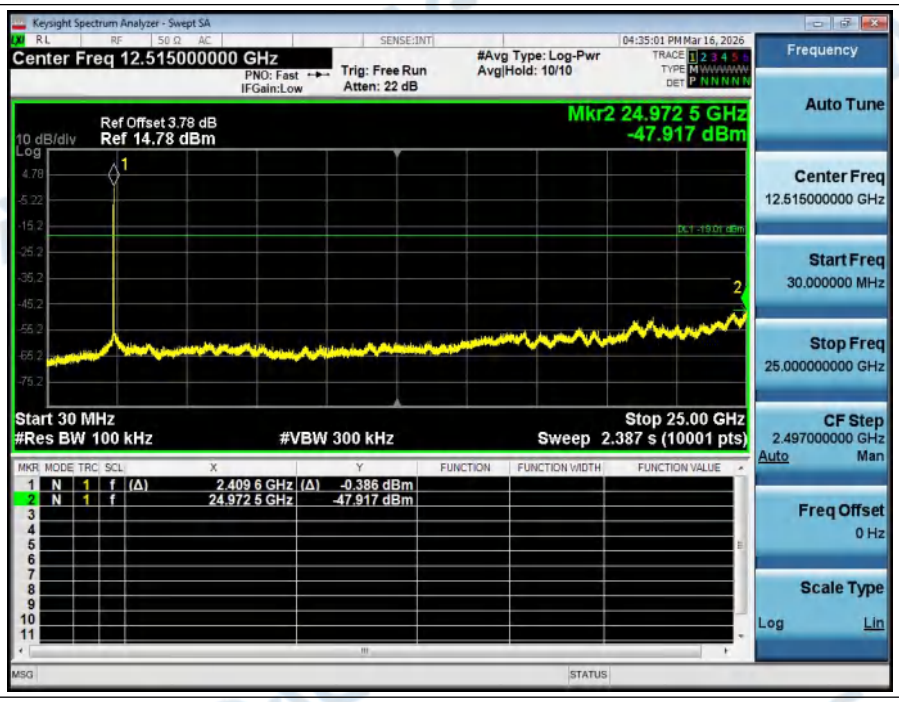

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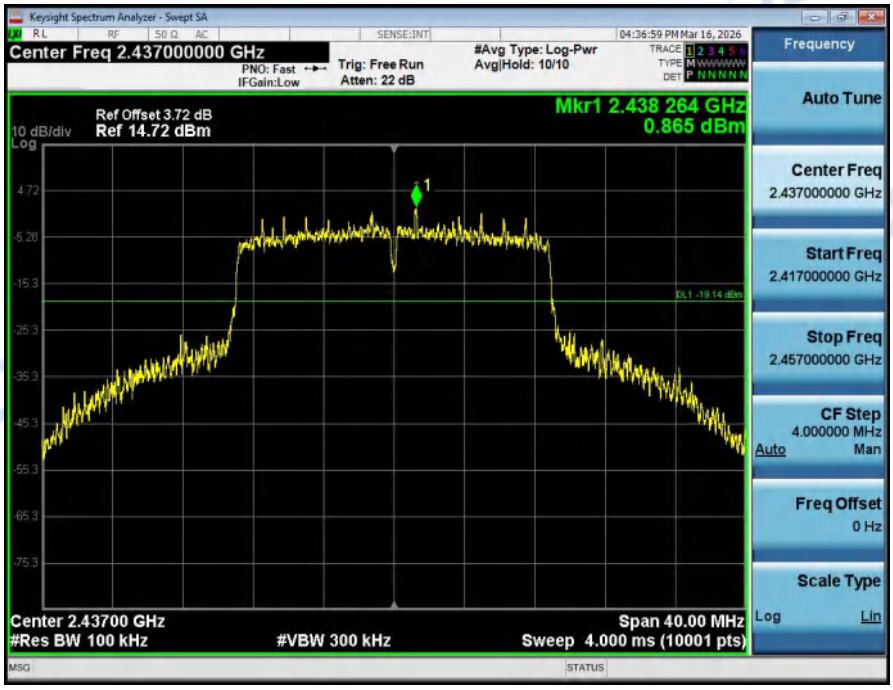

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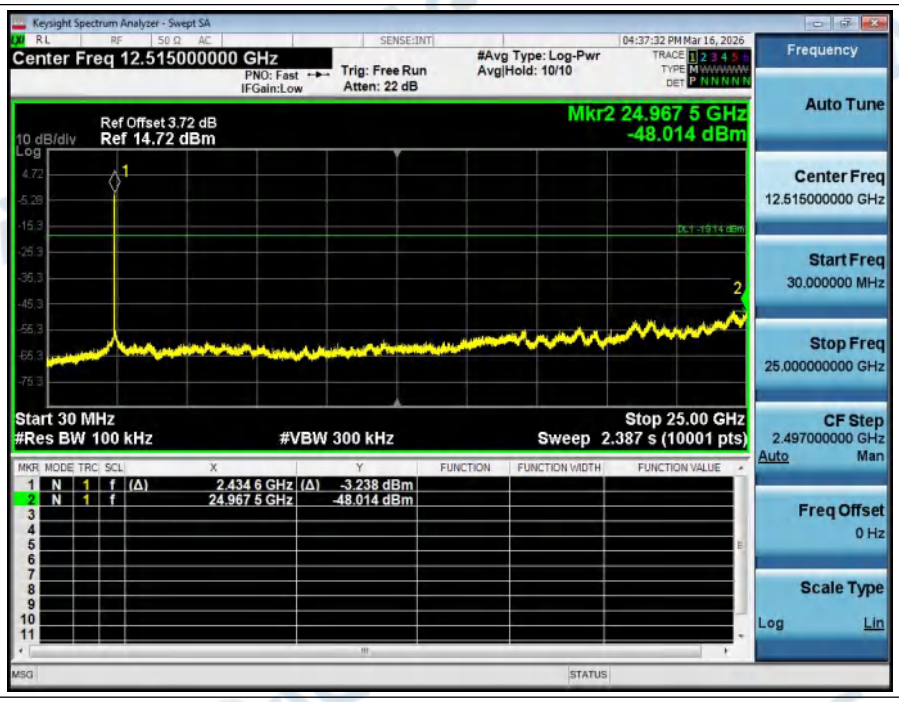

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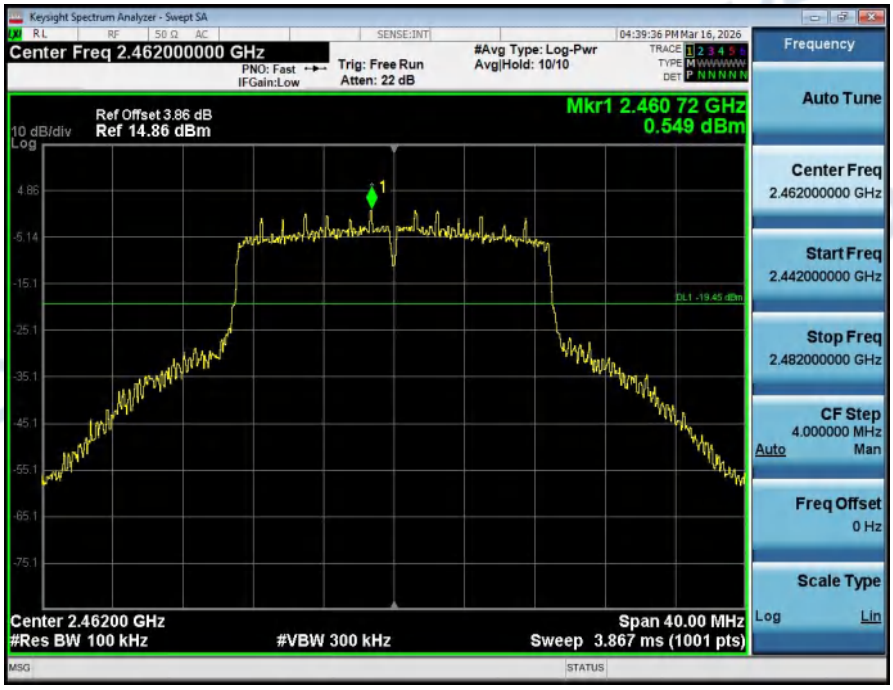

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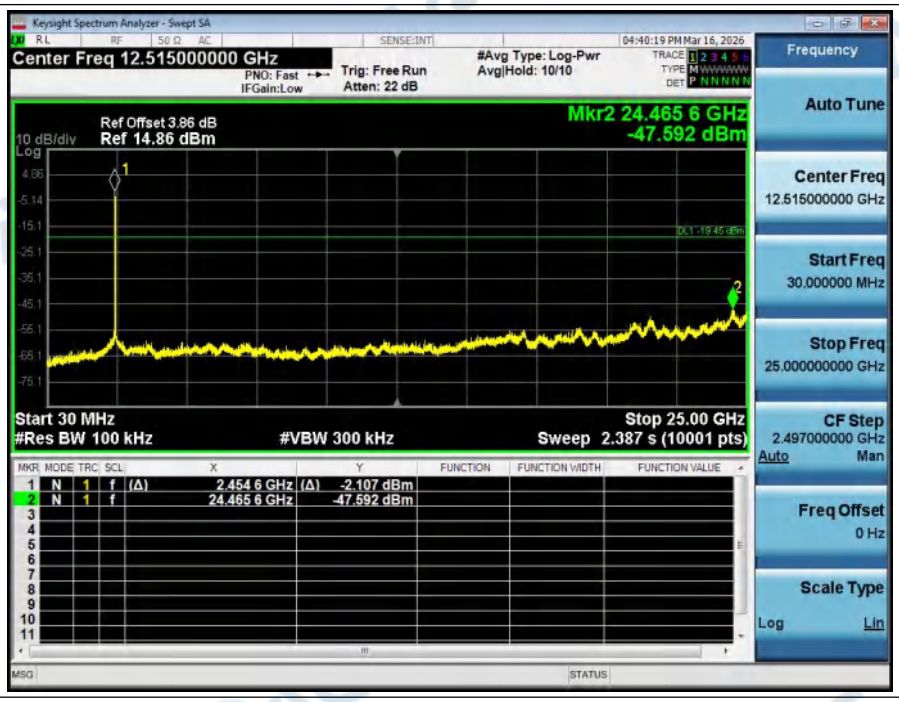
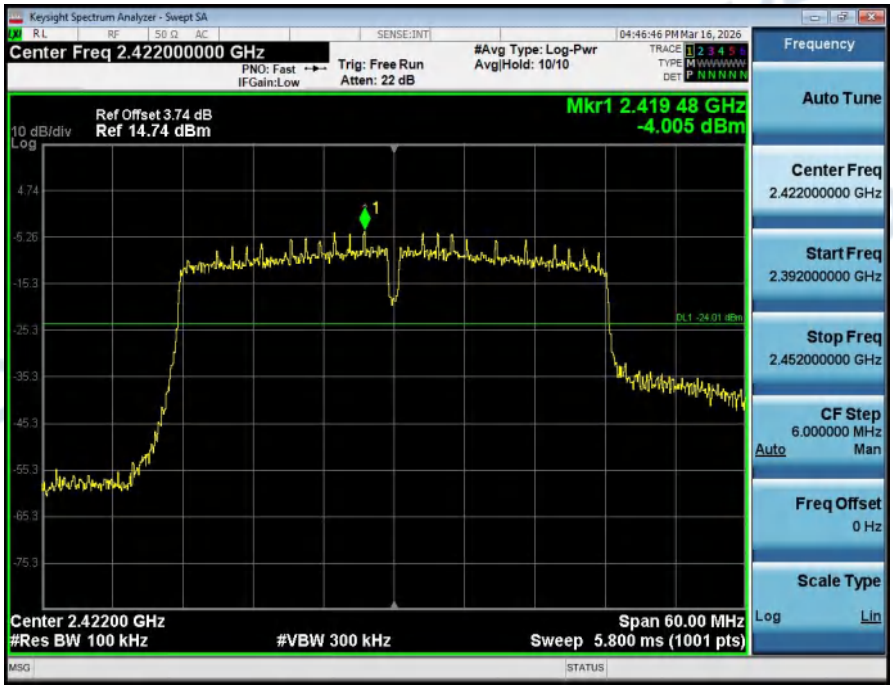
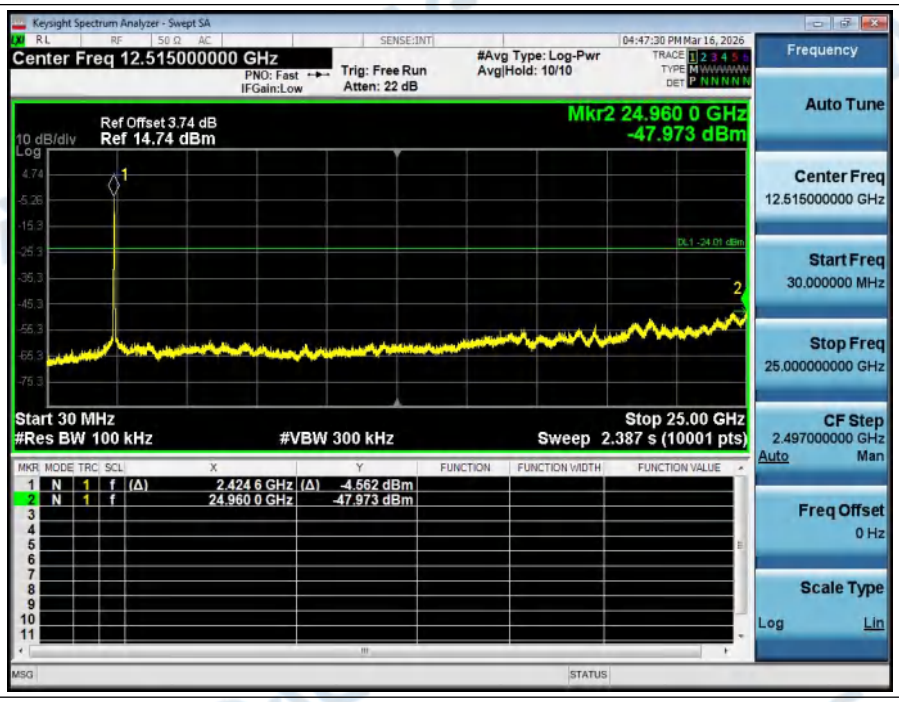


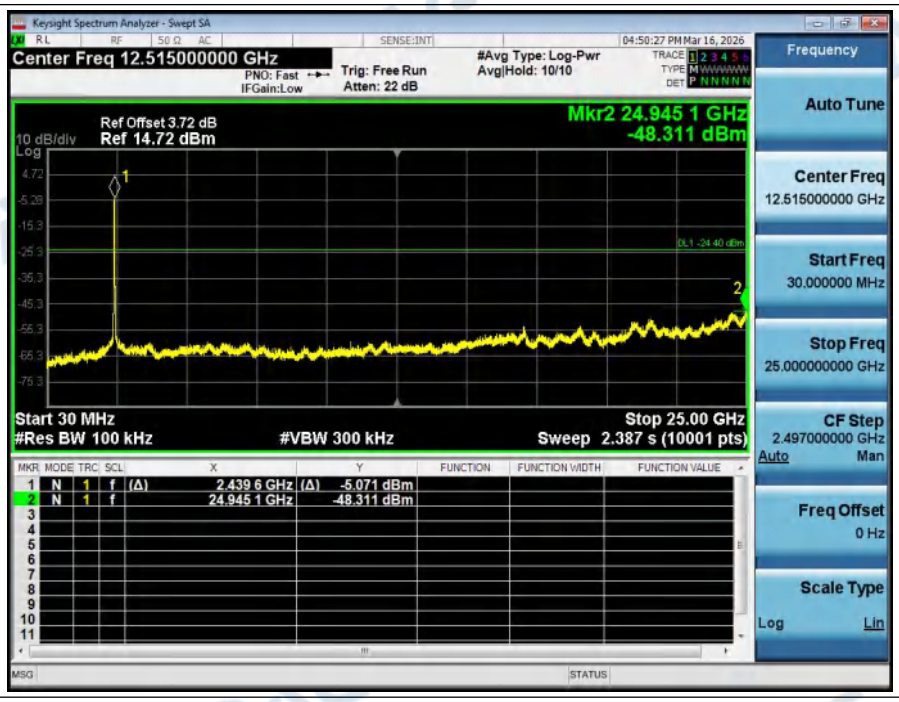
1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2422



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2437

2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2437


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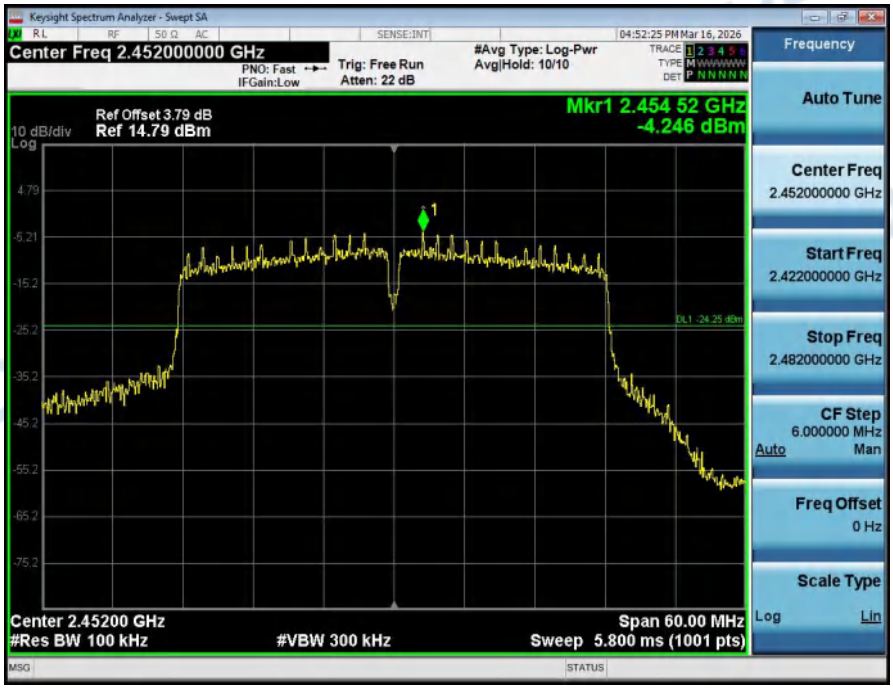

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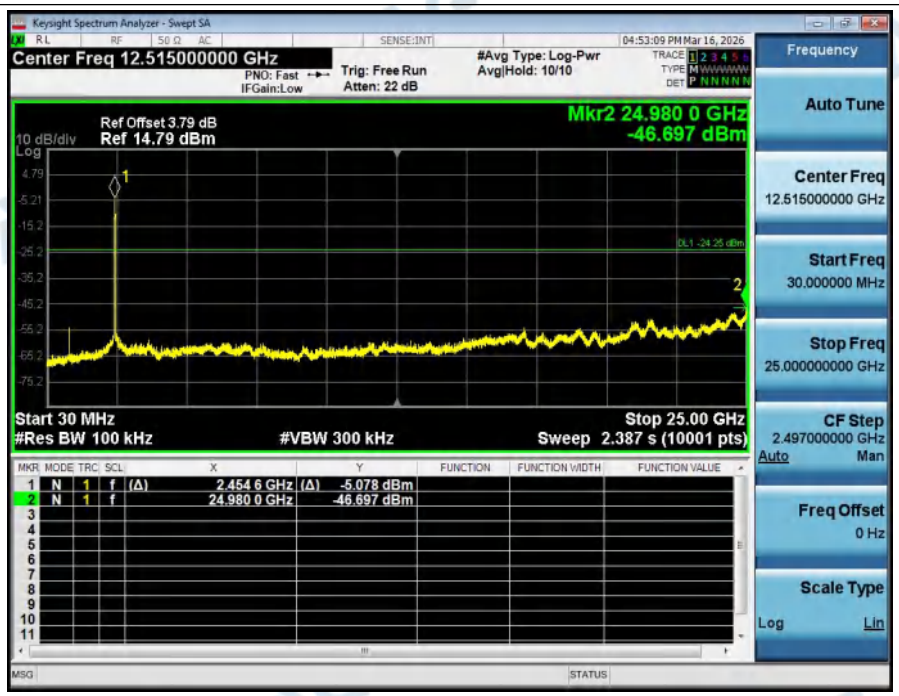

********** End of Report **********