RF TEST REPORT

For

Nanjing Jiahao Technology Co., Ltd
Product Name: WIFI+BT Module
Test Model(s): WKCT16R2501

Report Reference No.	:	**DACE250916003RF002**
FCC ID	:	**2BS3W-WKCT16**
Applicant's Name	:	Nanjing Jiahao Technology Co., Ltd
Address	:	120 Su Yuan Avenue, Jiangning District, Nanjing City, Jiangsu Province
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	:	September 16, 2025
Date of Test	:	September 16, 2025 to October 16, 2025
Data of Issue	:	October 16, 2025
Result	:	**Pass**

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Apply for company information

Applicant's Name	:	Nanjing Jiahao Technology Co., Ltd
Address	:	120 Su Yuan Avenue, Jiangning District, Nanjing City, Jiangsu Province
Product Name	:	WIFI+BT Module
Test Model(s)	:	WKCT16R2501
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:
Keren Huang	Ben Tang	Machael Mo
Keren Huang / Test Engineer	Ben Tang / Project Engineer	Machael Mo / Manager
October 16, 2025	October 16, 2025	October 16, 2025

Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	DACE250916003RF002	October 16, 2025

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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
20dB Bandwidth	47 CFR Part 15.247	ANSI C63.10-2020, section 7.8.6	47 CFR 15.247(a)(1)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	ANSI C63.10-2020, section 7.8.5	47 CFR 15.247(b)(1)	Pass
Channel Separation	47 CFR Part 15.247	ANSI C63.10-2020, section 7.8.2	47 CFR 15.247(a)(1)	Pass
Number of Hopping Frequencies	47 CFR Part 15.247	ANSI C63.10-2020, section 7.8.3	47 CFR 15.247(a)(1)(iii)	Pass
Dwell Time	47 CFR Part 15.247	ANSI C63.10-2020, section 7.8.4	47 CFR 15.247(a)(1)(iii)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	ANSI C63.10-2020 section 7.8.7	47 CFR 15.247(d)	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	ANSI C63.10-2020 section 6.10	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	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	47 CFR 15.247(d), 15.209, 15.205	Pass

2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : Nanjing Jiahao Technology Co., Ltd
Address : 120 Su Yuan Avenue, Jiangning District, Nanjing City, Jiangsu Province

Manufacturer : Nanjing Jiahao Technology Co., Ltd
Address : 120 Su Yuan Avenue, Jiangning District, Nanjing City, Jiangsu Province

2.2 Description of Device (EUT)

Product Name:	WIFI+BT Module
Model/Type reference:	WKCT16R2501
Series Model:	N/A
Trade Mark:	N/A
Power Supply:	VCC:3.3V
Operation Frequency:	2402MHz to 2480MHz
Number of Channels:	79
Modulation Type:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type:	PCB
Antenna Gain:	1.62dBi
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	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz

17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

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)**
	BDR/EDR
Lowest channel	2402MHz
Middle channel	2441MHz
Highest channel	2480MHz

2.3 Description of Test Modes

No	**Title**	**Description**
TM1	TX-GFSK (Non-Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation at lowest, middle and highest channel.
TM2	TX-Pi/4DQPSK (Non-Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with Pi/4DQPSK modulation at lowest, middle and highest channel.
TM3	TX-8DPSK (Non-Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation at lowest, middle and highest channel.
TM4	TX-GFSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
TM5	TX-Pi/4DQPSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with Pi/4DQPSK modulation.
TM6	TX-8DPSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.
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.**
PC	HP	TPC-W032-SF	N/A

2.5 Equipments Used During The Test

Channel Separation
Number of Hopping Frequencies
Dwell Time
Emissions in non-restricted frequency bands
20dB Bandwidth
Maximum Conducted Output Power

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	2024-12-06	2025-12-05
Signal Generator	Keysight	N5182A	MY48180415	2024-12-06	2025-12-05
Spectrum Analyzer	Keysight	N9020A	MY53420323	2024-12-06	2025-12-05
Spectrum Analyzer	Keysight	N9020A	MY55338111	2025-09-16	2026-09-15

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	/	/	2024-12-19	2025-12-18
Cable(LF)#1	Schwarzbeck	/	/	2024-12-19	2025-12-18
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
Occupied Bandwidth	±3.63%
RF conducted power	±0.733dB
Duty cycle	±3.1%
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:	101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, 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:	101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, 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.

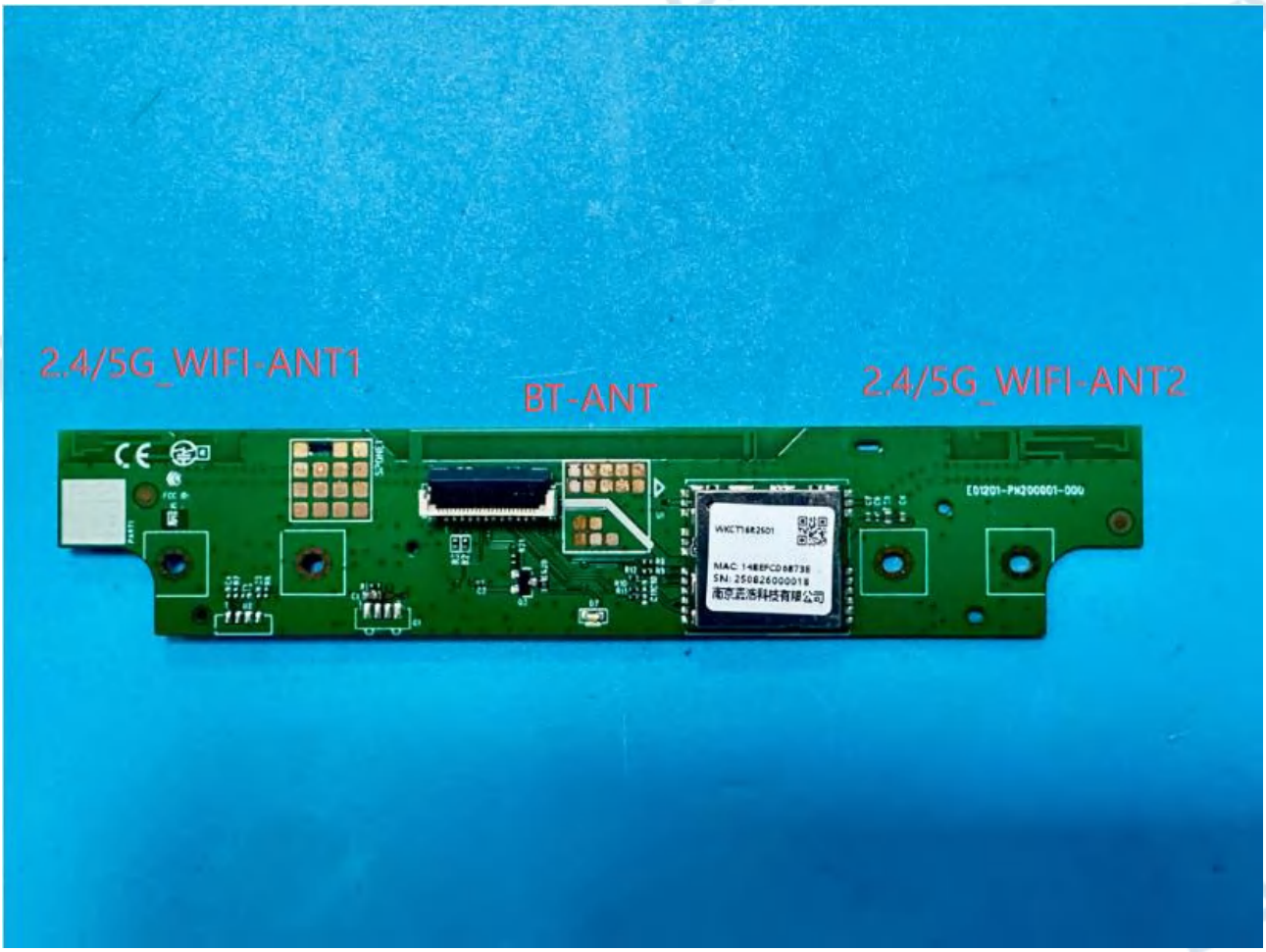
(6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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.

3.1.1 Conclusion:



4 Radio Spectrum Matter Test Results (RF)

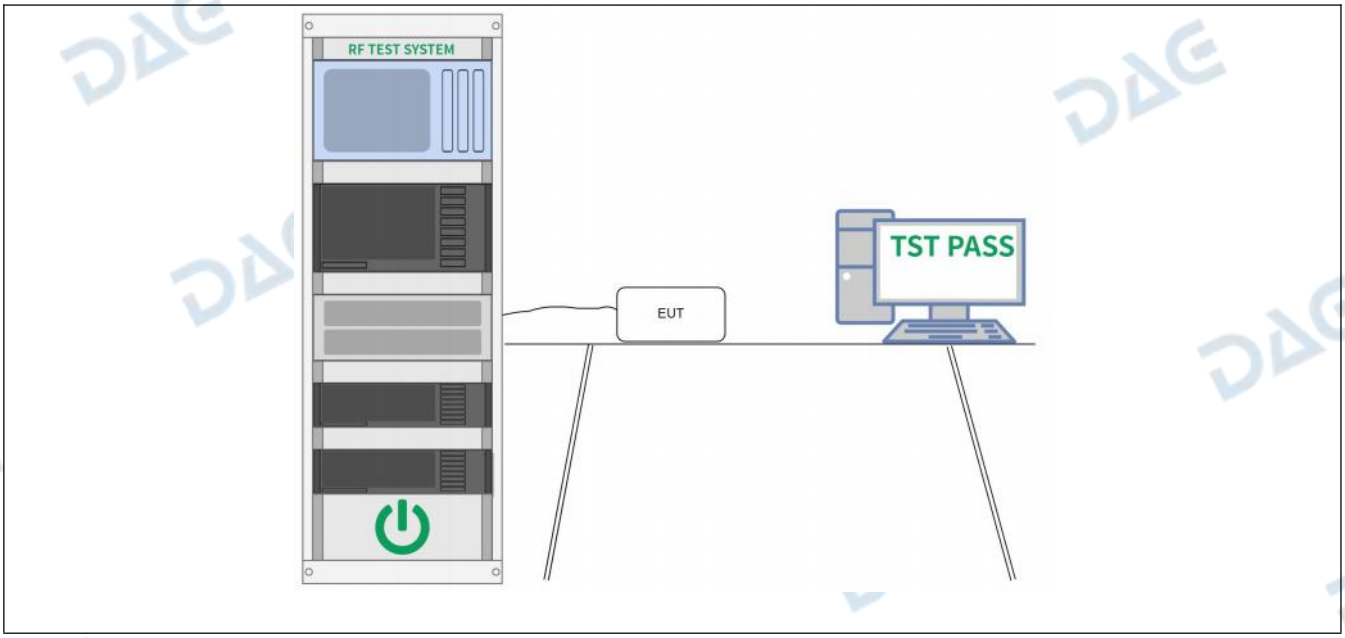
4.1 20dB Bandwidth

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements, use the procedure in 6.9.3. Frequency hopping shall be disabled for this test.
Procedure:	The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth: a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.6.2. d) Step a) through step c) might require iteration to adjust within the specified range. e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used. f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth. g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies. h) The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

4.1.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.2 °C	Humidity:	48 %	Atmospheric Pressure:	101.3 kPa
Pretest mode:	TM1, TM2, TM3				
Final test mode:	TM1, TM2, TM3				

4.1.2 Test Setup Diagram:



4.1.3 Test Data:

Please Refer to Appendix for Details.

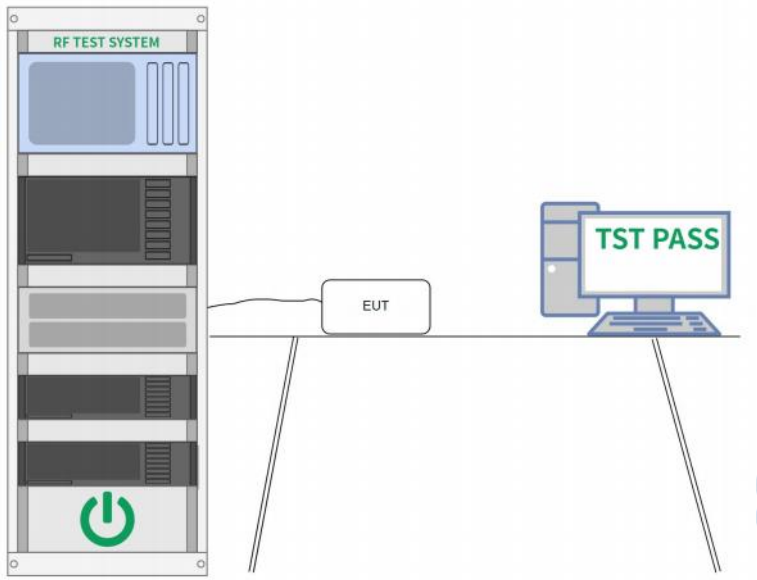
4.2 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit:	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2020, section 7.8.5
Procedure:	This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer settings: a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. b) RBW > 20 dB bandwidth of the emission being measured. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission. i) The indicated level is the peak output power, after any corrections for external attenuators and cables. j) A spectral plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

4.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.9 °C	Humidity:	55 %	Atmospheric Pressure:	101.3 kPa
Pretest mode:	TM1, TM2, TM3				
Final test mode:	TM1, TM2, TM3				

4.2.2 Test Setup Diagram:



4.2.3 Test Data:

Please Refer to Appendix for Details.

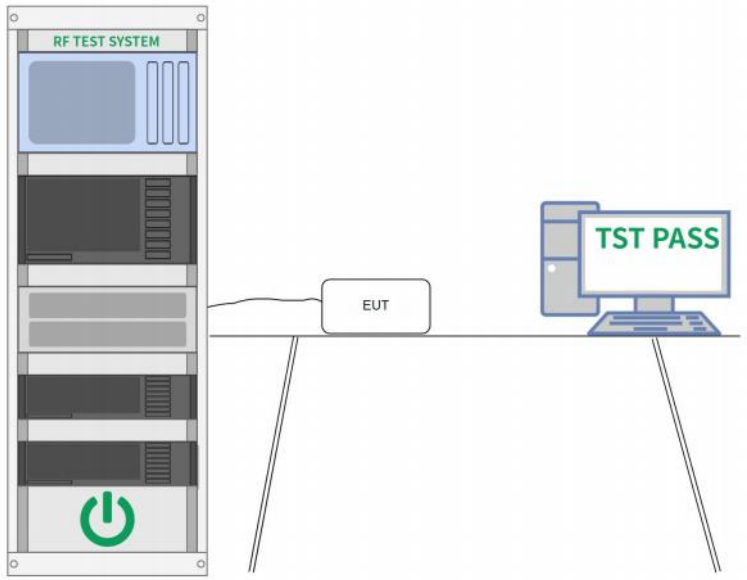
4.3 Channel Separation

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Test Method:	ANSI C63.10-2020, section 7.8.2
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be included in the test report.

4.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.3 °C	Humidity:	47 %	Atmospheric Pressure:	101.3 kPa
Pretest mode:	TM4, TM5, TM6				
Final test mode:	TM4, TM5, TM6				

4.3.2 Test Setup Diagram:



4.3.3 Test Data:

Please Refer to Appendix for Details.

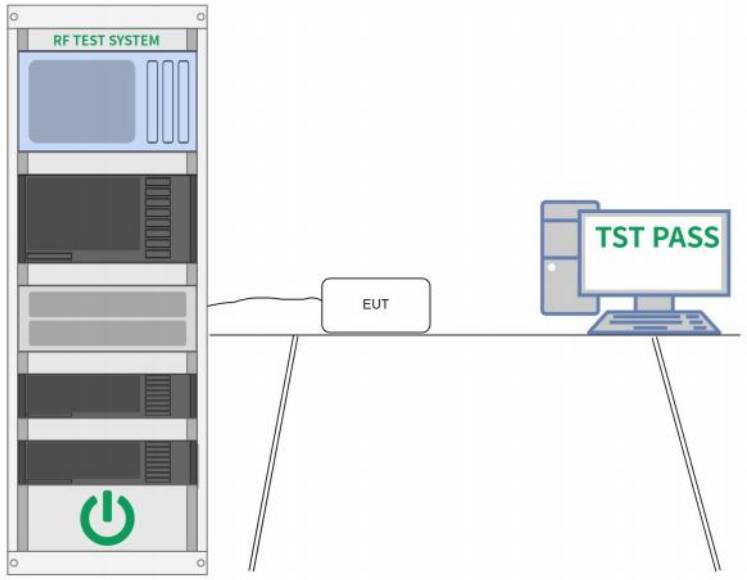
4.4 Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.3
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize. It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A spectral plot of the data shall be included in the test report.

4.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.9 °C	Humidity:	50 %	Atmospheric Pressure:	101.3 kPa
Pretest mode:	TM4, TM5, TM6				
Final test mode:	TM4, TM5, TM6				

4.4.2 Test Setup Diagram:



4.4.3 Test Data:

Please Refer to Appendix for Details.

4.5 Dwell Time

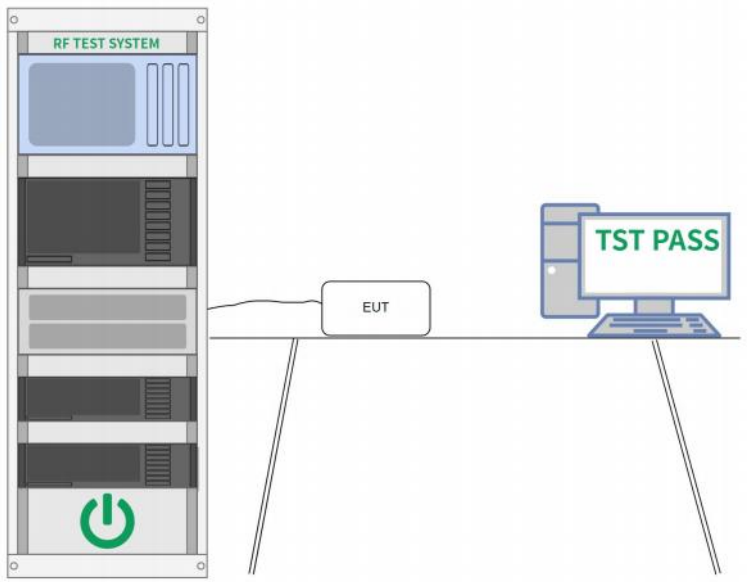
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.4
Procedure:	The dwell time per hop on a channel is the time from the start of the first transmission to the end of the last transmission for that hop. If the device has a single transmission per hop then the dwell time is the duration of that transmission. If the device has a multiple transmissions per hop then the dwell time is measured from the start of the first transmission to the end of the last transmission. The time of occupancy is the total time that the device dwells on a channel over an observation period specified in the regulatory requirement. To determine the time of occupancy the spectrum analyzer will be configured to measure both the dwell time per hop and the number of times the device transmits on a specific channel in a given period. The EUT shall have its hopping function enabled. Compliance with the requirements shall be made with the minimum and with the maximum number of channels enabled. If the dwell time per channel does not vary with the number of channels than compliance with the requirements may be based on the minimum number of channels. If the device supports different dwell times per channel (example Bluetooth devices can dwell on a channel for 1, 3 or 5 time slots) then measurements can be limited to the longest dwell time with the minimum number of channels. Use the following spectrum analyzer settings to determine the dwell time per hop: a) Span: Zero span, centered on a hopping channel. b) RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected transmission time per hop. c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = 1/hopping rate) should achieve this. d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel. e) Detector function: Peak. f) Trace: Clear-write, single sweep. g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between these two markers. To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better determine the average time of occupancy. Count the number of hops on the channel across the sweep time. The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the

	spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is 3 / 0.5 × 10, or 60 hops. The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.

4.5.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.9 °C	Humidity:	52 %	Atmospheric Pressure:	101.3 kPa
Pretest mode:	TM4, TM5, TM6				
Final test mode:	TM4, TM5, TM6				

4.5.2 Test Setup Diagram:



4.5.3 Test Data:

Please Refer to Appendix for Details.

4.6 Emissions in non-restricted frequency bands

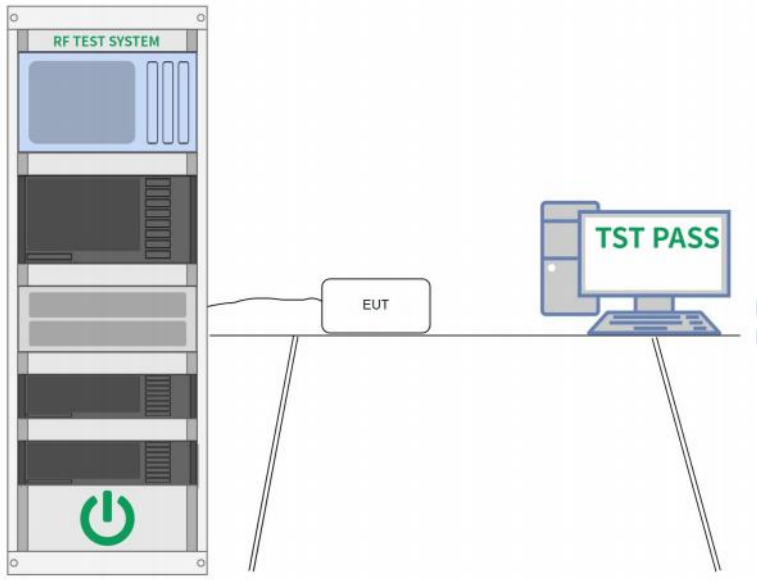
Test Requirement:	47 CFR 15.247(d)
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 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 7.8.7
Procedure:	7.8.7.1 General considerations To demonstrate compliance with the relative out-of-band emissions requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers. Frequency hopping shall be disabled for this test with the exception of measurements at the allocated band-edges which shall be repeated with hopping enabled. Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The frequency range of testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector. The limit is based on the highest in-band level across all channels measured using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band measurements a separate spectral plot showing the in-band level shall be provided. When conducted measurements cannot be made (for example a device with integrated, non-removable antenna) radiated measurements shall be used. The reference level for determining the limit shall be established by maximizing the field strength from the highest power channel and measuring using the resolution and video bandwidth settings and peak detector as described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB) below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the exception that the resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector. Note that use of wider measurement bandwidths are acceptable for measuring the spurious emissions provided that the peak detector is used and that the measured value of spurious emissions are compared to the highest in-band level measured with the 100 kHz / 300 kHz bandwidth settings to determine compliance. 7.8.7.2 Band-edges Compliance with a relative limit at the band-edges (e.g., −20 dBc) shall be made on the lowest and on the highest channels with frequency hopping disabled and repeated with frequency hopping enabled. For the latter test the hopping sequence shall include the lowest and highest channels. For measurements with the hopping disabled the analyzer screen shall clearly show

	compliance with the requirement within 10 MHz of the allocated band-edge. For measurements with the hopping enabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of both of the allocated band-edges. This could require separate spectral plots for each band-edge.

4.6.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.1 °C	Humidity:	49 %	Atmospheric Pressure:	101.3 kPa
Pretest mode:	TM1, TM2, TM3, TM4, TM5, TM6				
Final test mode:	TM1, TM2, TM3, TM4, TM5, TM6				

4.6.2 Test Setup Diagram:



4.6.3 Test Data:

Please Refer to Appendix for Details.

4.7 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

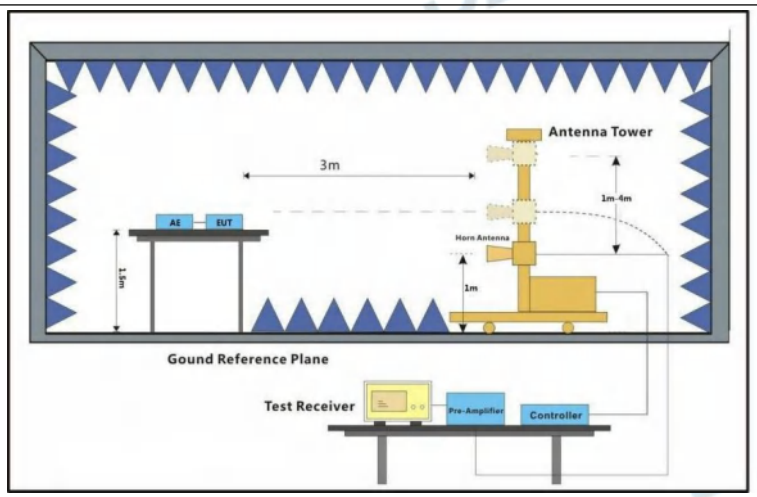
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this 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
Procedure:	ANSI C63.10-2020 section 6.10.5.2

4.7.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.6 °C	Humidity:	47 %	Atmospheric Pressure:	101.3 kPa
Pretest mode:	TM1, TM2, TM3				
Final test mode:	TM1, TM2, TM3				

4.7.2 Test Setup Diagram:



4.7.3 Test Data:

DH5								
Polar	Frequency	Meter Reading	Cable Loss	Level	Limit (dBuV/m)	Margin	Detector Type	Result
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)		(dBuV/m)		
Low Channel: 2402MHz								
H	2390	48.17	-6.62	41.55	74	-32.45	PK	Pass
H	2390	30.89	-6.62	24.27	54	-29.73	AV	Pass
H	2400	48.56	-6.43	42.13	74	-31.87	PK	Pass
H	2400	32.50	-6.43	26.07	54	-27.93	AV	Pass
V	2390	47.70	-6.62	41.08	74	-32.92	PK	Pass
V	2390	32.35	-6.62	25.73	54	-28.27	AV	Pass
V	2400	48.86	-6.43	42.43	74	-31.57	PK	Pass
V	2400	31.45	-6.43	25.02	54	-28.98	AV	Pass
High Channel: 2480MHz								
H	2483.5	53.99	-6.17	47.82	74	-26.18	PK	Pass
H	2483.5	35.17	-6.17	29.00	54	-25.00	AV	Pass
H	2500	47.49	-6.13	41.36	74	-32.64	PK	Pass
H	2500	30.60	-6.13	24.47	54	-29.53	AV	Pass
V	2483.5	47.12	-6.17	40.95	74	-33.05	PK	Pass
V	2483.5	31.25	-6.17	25.08	54	-28.92	AV	Pass
V	2500	47.96	-6.13	41.83	74	-32.17	PK	Pass
V	2500	30.28	-6.13	24.15	54	-29.85	AV	Pass

2DH5								
Polar	Frequency	Meter Reading	Cable Loss	Level	Limit (dBuV/m)	Margin	Detector Type	Result
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)		(dBuV/m)		
Low Channel: 2402MHz								
H	2390	49.02	-6.62	42.40	74	-31.60	PK	Pass
H	2390	31.09	-6.62	24.47	54	-29.53	AV	Pass
H	2400	47.77	-6.43	41.34	74	-32.66	PK	Pass
H	2400	30.81	-6.43	24.38	54	-29.62	AV	Pass
V	2390	48.47	-6.62	41.85	74	-32.15	PK	Pass
V	2390	30.56	-6.62	23.94	54	-30.06	AV	Pass
V	2400	47.39	-6.43	40.96	74	-33.04	PK	Pass
V	2400	32.34	-6.43	25.91	54	-28.09	AV	Pass
High Channel: 2480MHz								
H	2483.5	54.89	-6.17	48.72	74	-25.28	PK	Pass
H	2483.5	33.46	-6.17	27.29	54	-26.71	AV	Pass
H	2500	48.99	-6.13	42.86	74	-31.14	PK	Pass
H	2500	32.40	-6.13	26.27	54	-27.73	AV	Pass
V	2483.5	47.97	-6.17	41.80	74	-32.20	PK	Pass
V	2483.5	30.97	-6.17	24.80	54	-29.20	AV	Pass

V	2500	49.20	-6.13	43.07	74	-30.93	PK	Pass
V	2500	32.57	-6.13	26.44	54	-27.56	AV	Pass
3DH5								
Polar	Frequency	Meter Reading	Cable Loss	Level	Limit (dBuV/m)	Margin	Detector Type	Result
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)		(dBuV/m)		
Low Channel: 2402MHz								
H	2390	47.70	-6.62	41.08	74	-32.92	PK	Pass
H	2390	32.18	-6.62	25.56	54	-28.44	AV	Pass
H	2400	49.49	-6.43	43.06	74	-30.94	PK	Pass
H	2400	30.44	-6.43	24.01	54	-29.99	AV	Pass
V	2390	48.20	-6.62	41.58	74	-32.42	PK	Pass
V	2390	31.96	-6.62	25.34	54	-28.66	AV	Pass
V	2400	48.17	-6.43	41.74	74	-32.26	PK	Pass
V	2400	32.56	-6.43	26.13	54	-27.87	AV	Pass
High Channel: 2480MHz								
H	2483.5	53.70	-6.17	47.53	74	-26.47	PK	Pass
H	2483.5	34.57	-6.17	28.40	54	-25.60	AV	Pass
H	2500	47.99	-6.13	41.86	74	-32.14	PK	Pass
H	2500	30.13	-6.13	24.00	54	-30.00	AV	Pass
V	2483.5	48.94	-6.17	42.77	74	-31.23	PK	Pass
V	2483.5	30.88	-6.17	24.71	54	-29.29	AV	Pass
V	2500	47.34	-6.13	41.21	74	-32.79	PK	Pass
V	2500	31.18	-6.13	25.05	54	-28.95	AV	Pass

Remark:

1. Level = Meter Reading + Cable Loss r, Margin= Level - Limit

4.8 Emissions in frequency bands (below 1GHz)

<table>
<tr><td>Test Requirement:</td><td>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)).`</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<tr><td>Frequency (MHz)</td><td>Field strength (microvolts/meter)</td><td>Measurement distance (meters)</td></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.
</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10-2020 section 6.6.4</td></tr>
<tr><td>Procedure:</td><td>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.</td></tr>
</table>

	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:	23.3 °C	Humidity:	48 %	Atmospheric Pressure:	101.3 kPa
Pretest mode:	TM1, TM2, TM3				
Final test mode:	TM1				

4.8.2 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / 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	31.8427	26.09	-2.73	23.36	40.00	-16.64	QP	100		P	
2	118.1862	25.48	-6.73	18.75	43.50	-24.75	QP	100		P	
3	202.1005	29.16	-9.76	19.40	43.50	-24.10	QP	100		P	
4	359.1860	26.74	-6.57	20.17	46.00	-25.83	QP	100		P	
5	526.3967	27.10	-3.22	23.88	46.00	-22.12	QP	100		P	
6 *	896.9965	27.21	3.78	30.99	46.00	-15.01	QP	100		P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / 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	36.2541	25.67	-6.28	19.39	40.00	-20.61	QP	100		P	
2	114.9169	26.10	-6.81	19.29	43.50	-24.21	QP	100		P	
3	180.0165	27.11	-8.91	18.20	43.50	-25.30	QP	100		P	
4	410.3825	26.57	-5.31	21.26	46.00	-24.74	QP	100		P	
5	601.4265	26.75	-1.63	25.12	46.00	-20.88	QP	100		P	
6 *	925.7563	26.32	4.32	30.64	46.00	-15.36	QP	100		P	

4.9 Emissions in frequency bands (above 1GHz)

<table>
<tr><td>Test Requirement:</td><td>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)).`</td></tr>
<tr><td>Test Limit:</td><td>
<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.
</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10-2020 section 6.6.4</td></tr>
<tr><td>Procedure:</td><td>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</td></tr>
</table>

	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.

4.9.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.2 °C	Humidity:	52 %	Atmospheric Pressure:	101.3 kPa
Pretest mode:	TM1, TM2, TM3				
Final test mode:	TM1, TM2, TM3				

4.9.2 Test Data:

DH5								
Polar	Frequency	Meter Reading	Cable Loss	Level	Limit (dBuV/m)	Margin	Detector Type	Result
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)		(dBuV/m)		
Low Channel: 2402MHz								
V	4804	48.16	-0.17	47.99	74	-26.01	PK	Pass
V	4804	32.31	-0.17	32.14	54	-21.86	AV	Pass
V	7206	48.43	4.78	53.21	74	-20.79	PK	Pass
V	7206	31.45	4.78	36.23	54	-17.77	AV	Pass
V	9608	48.69	8.08	56.77	74	-17.23	PK	Pass
V	9608	30.07	8.08	38.15	54	-15.85	AV	Pass
H	4804	48.14	-0.17	47.97	74	-26.03	PK	Pass
H	4804	31.93	-0.17	31.76	54	-22.24	AV	Pass
H	7206	54.84	4.78	59.62	74	-14.38	PK	Pass
H	7206	34.69	4.78	39.47	54	-14.53	AV	Pass
H	9608	48.53	8.08	56.61	74	-17.39	PK	Pass
H	9608	32.32	8.08	40.40	54	-13.60	AV	Pass
Middle Channel:2441MHz								
V	4882	49.20	-0.17	49.03	74	-24.97	PK	Pass
V	4882	31.30	-0.17	31.13	54	-22.87	AV	Pass
V	7323	47.16	4.78	51.94	74	-22.06	PK	Pass
V	7323	30.47	4.78	35.25	54	-18.75	AV	Pass
V	9764	49.07	8.08	57.15	74	-16.85	PK	Pass
V	9764	30.87	8.08	38.95	54	-15.05	AV	Pass
H	4882	48.94	-0.17	48.77	74	-25.23	PK	Pass
H	4882	32.33	-0.17	32.16	54	-21.84	AV	Pass
H	7323	54.73	4.78	59.51	74	-14.49	PK	Pass

H	7323	35.53	4.78	40.31	54	-13.69	AV	Pass
H	9764	47.89	8.08	55.97	74	-18.03	PK	Pass
H	9764	32.55	8.08	40.63	54	-13.37	AV	Pass
High Channel:2480MHz								
V	4960	48.13	-0.17	47.96	74	-26.04	PK	Pass
V	4960	31.81	-0.17	31.64	54	-22.36	AV	Pass
V	7440	48.43	4.78	53.21	74	-20.79	PK	Pass
V	7440	31.70	4.78	36.48	54	-17.52	AV	Pass
V	9920	48.62	8.08	56.70	74	-17.30	PK	Pass
V	9920	30.29	8.08	38.37	54	-15.63	AV	Pass
H	4960	48.55	-0.17	48.38	74	-25.62	PK	Pass
H	4960	31.56	-0.17	31.39	54	-22.61	AV	Pass
H	7440	55.51	4.78	60.29	74	-13.71	PK	Pass
H	7440	33.61	4.78	38.39	54	-15.61	AV	Pass
H	9920	49.51	8.08	57.59	74	-16.41	PK	Pass
H	9921	30.10	8.08	38.18	54	-15.82	PK	Pass

2DH5								
Polar	Frequency	Meter Reading	Cable Loss	Level	Limit (dBuV/m)	Margin	Detector Type	Result
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)		(dBuV/m)		
Low Channel: 2402MHz								
V	4804	49.31	-0.17	49.14	74	-24.86	PK	Pass
V	4804	31.21	-0.17	31.04	54	-22.96	AV	Pass
V	7206	48.84	4.78	53.62	74	-20.38	PK	Pass
V	7206	32.40	4.78	37.18	54	-16.82	AV	Pass
V	9608	48.80	8.08	56.88	74	-17.12	PK	Pass
V	9608	30.52	8.08	38.60	54	-15.40	AV	Pass
H	4804	47.73	-0.17	47.56	74	-26.44	PK	Pass
H	4804	30.83	-0.17	30.66	54	-23.34	AV	Pass
H	7206	53.93	4.78	58.71	74	-15.29	PK	Pass
H	7206	33.26	4.78	38.04	54	-15.96	AV	Pass
H	9608	48.06	8.08	56.14	74	-17.86	PK	Pass
H	9608	30.89	8.08	38.97	54	-15.03	AV	Pass
Middle Channel:2441MHz								
V	4882	48.38	-0.17	48.21	74	-25.79	PK	Pass
V	4882	30.28	-0.17	30.11	54	-23.89	AV	Pass
V	7323	48.68	4.78	53.46	74	-20.54	PK	Pass
V	7323	32.08	4.78	36.86	54	-17.14	AV	Pass
V	9764	47.78	8.08	55.86	74	-18.14	PK	Pass
V	9764	30.23	8.08	38.31	54	-15.69	AV	Pass
H	4882	49.01	-0.17	48.84	74	-25.16	PK	Pass

H	4882	31.68	-0.17	31.51	54	-22.49	AV	Pass
H	7323	54.87	4.78	59.65	74	-14.35	PK	Pass
H	7323	33.11	4.78	37.89	54	-16.11	AV	Pass
H	9764	47.20	8.08	55.28	74	-18.72	PK	Pass
H	9764	32.03	8.08	40.11	54	-13.89	AV	Pass
High Channel:2480MHz								
V	4960	47.54	-0.17	47.37	74	-26.63	PK	Pass
V	4960	30.91	-0.17	30.74	54	-23.26	AV	Pass
V	7440	47.89	4.78	52.67	74	-21.33	PK	Pass
V	7440	31.21	4.78	35.99	54	-18.01	AV	Pass
V	9920	48.19	8.08	56.27	74	-17.73	PK	Pass
V	9920	31.03	8.08	39.11	54	-14.89	AV	Pass
H	4960	47.62	-0.17	47.45	74	-26.55	PK	Pass
H	4960	30.37	-0.17	30.20	54	-23.80	AV	Pass
H	7440	54.60	4.78	59.38	74	-14.62	PK	Pass
H	7440	34.46	4.78	39.24	54	-14.76	AV	Pass
H	9920	48.39	8.08	56.47	74	-17.53	PK	Pass
H	9921	32.37	8.08	40.45	54	-13.55	PK	Pass

3DH5								
Polar	Frequency	Meter Reading	Cable Loss	Level	Limit (dBuV/m)	Margin	Detector Type	Result
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)		(dBuV/m)		
Low Channel: 2402MHz								
V	4804	47.68	-0.17	47.51	74	-26.49	PK	Pass
V	4804	31.54	-0.17	31.37	54	-22.63	AV	Pass
V	7206	47.97	4.78	52.75	74	-21.25	PK	Pass
V	7206	32.60	4.78	37.38	54	-16.62	AV	Pass
V	9608	49.20	8.08	57.28	74	-16.72	PK	Pass
V	9608	32.52	8.08	40.60	54	-13.40	AV	Pass
H	4804	47.73	-0.17	47.56	74	-26.44	PK	Pass
H	4804	30.80	-0.17	30.63	54	-23.37	AV	Pass
H	7206	53.01	4.78	57.79	74	-16.21	PK	Pass
H	7206	34.82	4.78	39.60	54	-14.40	AV	Pass
H	9608	47.35	8.08	55.43	74	-18.57	PK	Pass
H	9608	31.64	8.08	39.72	54	-14.28	AV	Pass
Middle Channel:2441MHz								
V	4882	48.23	-0.17	48.06	74	-25.94	PK	Pass
V	4882	31.01	-0.17	30.84	54	-23.16	AV	Pass
V	7323	47.18	4.78	51.96	74	-22.04	PK	Pass
V	7323	30.78	4.78	35.56	54	-18.44	AV	Pass
V	9764	48.22	8.08	56.30	74	-17.70	PK	Pass

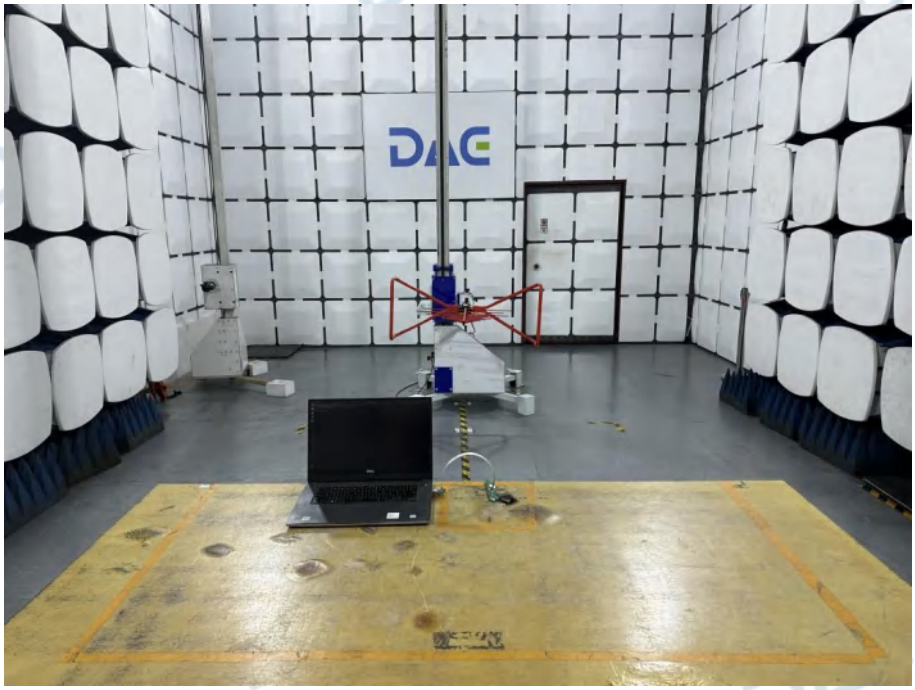
V	9764	31.18	8.08	39.26	54	-14.74	AV	Pass
H	4882	48.61	-0.17	48.44	74	-25.56	PK	Pass
H	4882	32.10	-0.17	31.93	54	-22.07	AV	Pass
H	7323	54.85	4.78	59.63	74	-14.37	PK	Pass
H	7323	34.11	4.78	38.89	54	-15.11	AV	Pass
H	9764	47.70	8.08	55.78	74	-18.22	PK	Pass
H	9764	31.96	8.08	40.04	54	-13.96	AV	Pass
High Channel:2480MHz								
V	4960	48.81	-0.17	48.64	74	-25.36	PK	Pass
V	4960	31.90	-0.17	31.73	54	-22.27	AV	Pass
V	7440	47.48	4.78	52.26	74	-21.74	PK	Pass
V	7440	32.52	4.78	37.30	54	-16.70	AV	Pass
V	9920	48.95	8.08	57.03	74	-16.97	PK	Pass
V	9920	30.48	8.08	38.56	54	-15.44	AV	Pass
H	4960	48.78	-0.17	48.61	74	-25.39	PK	Pass
H	4960	30.72	-0.17	30.55	54	-23.45	AV	Pass
H	7440	54.21	4.78	58.99	74	-15.01	PK	Pass
H	7440	35.03	4.78	39.81	54	-14.19	AV	Pass
H	9920	47.42	8.08	55.50	74	-18.50	PK	Pass
H	9921	31.73	8.08	39.81	54	-14.19	PK	Pass

Remark:

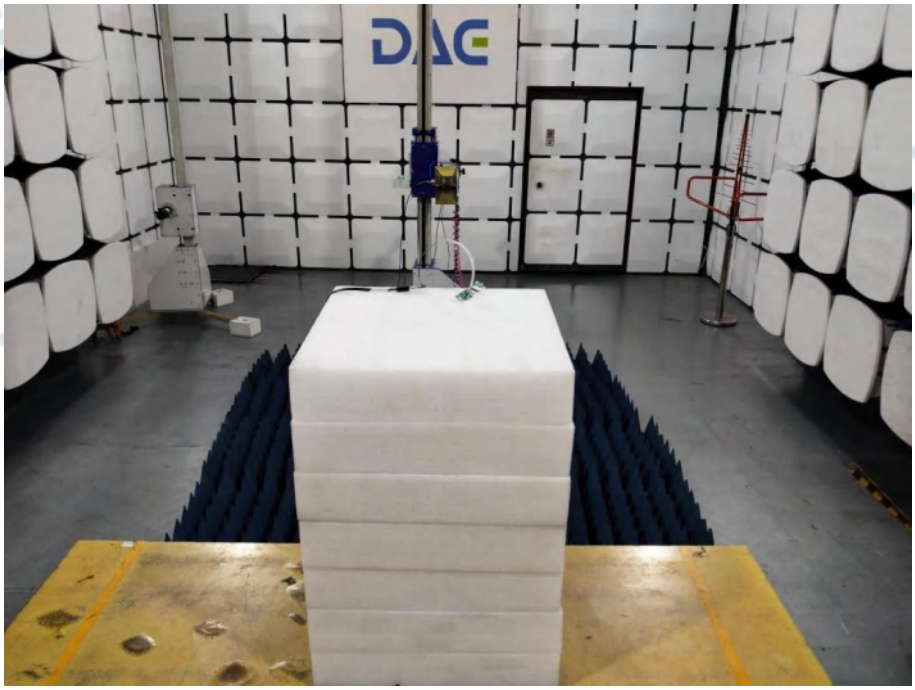
1. Level = Meter Reading + Cable Loss r, Margin= Level - Limit

5 TEST SETUP PHOTOS

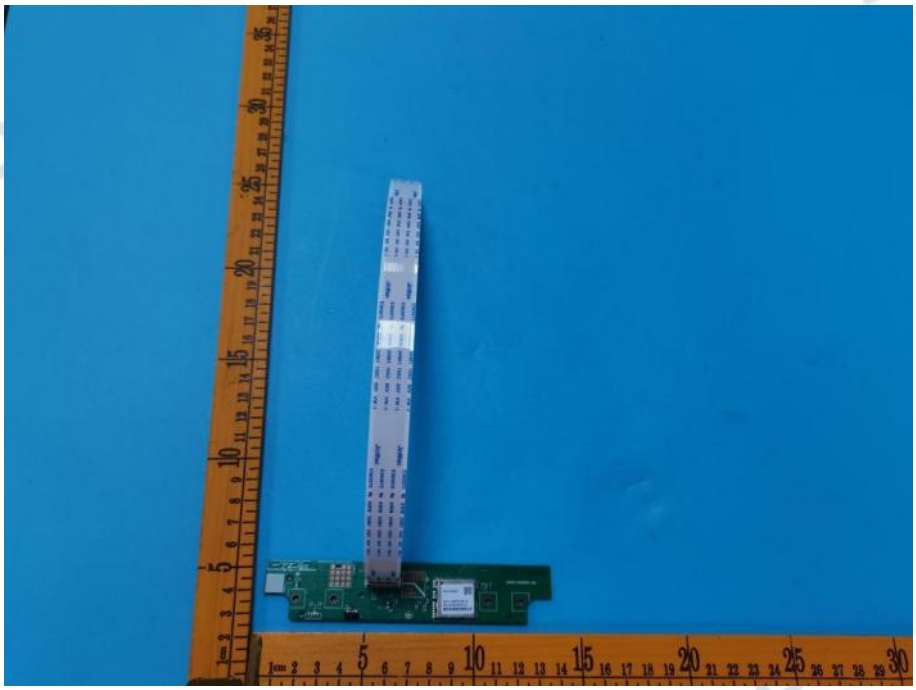
Emissions in frequency bands (below 1GHz)

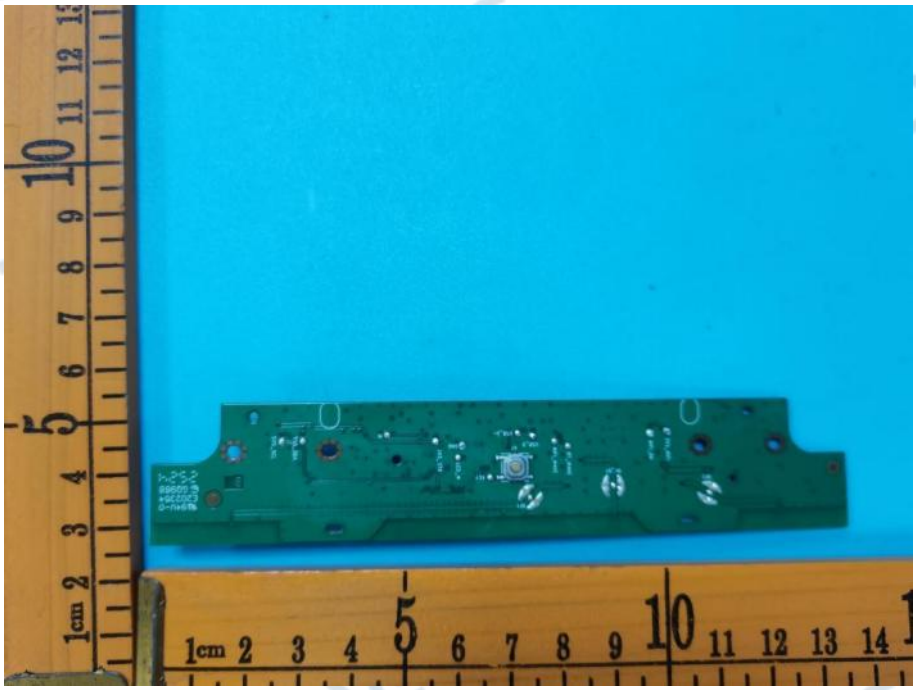


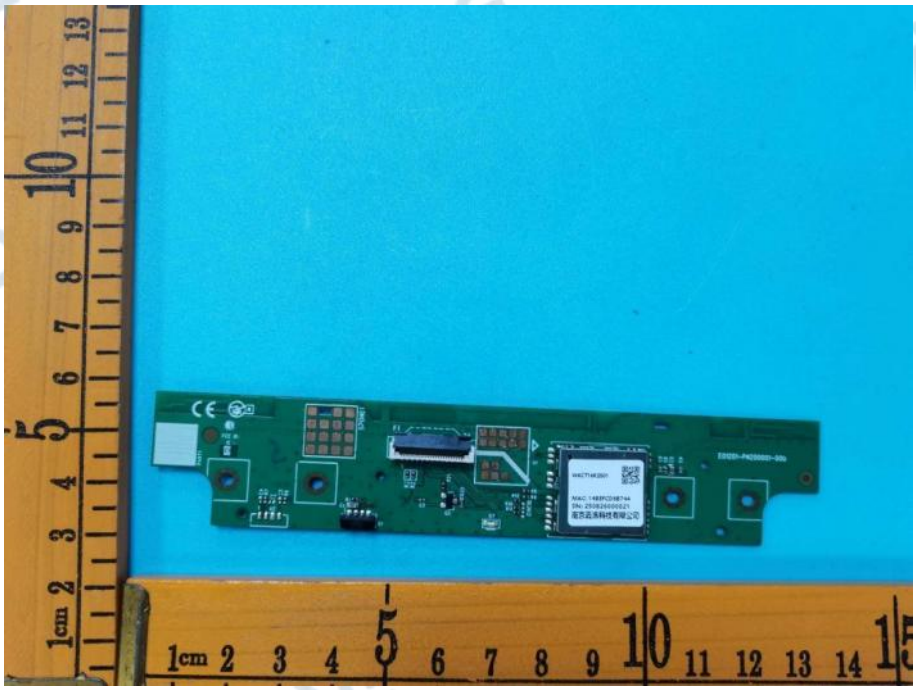
Emissions in frequency bands (above 1GHz)



6 PHOTOS OF THE EUT

Internal






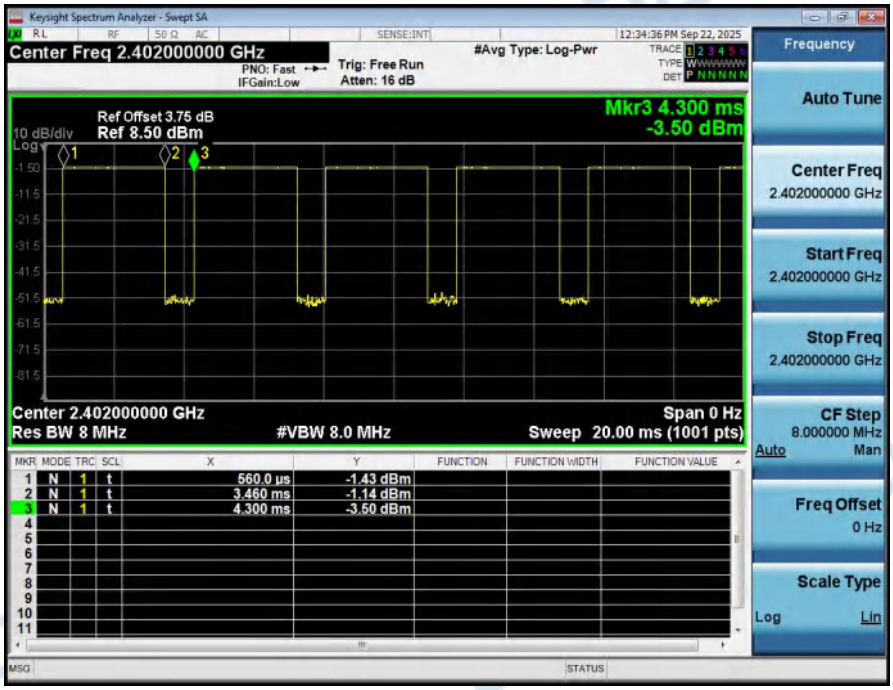
Appendix

FCC_BT (Part15.247) Test Data

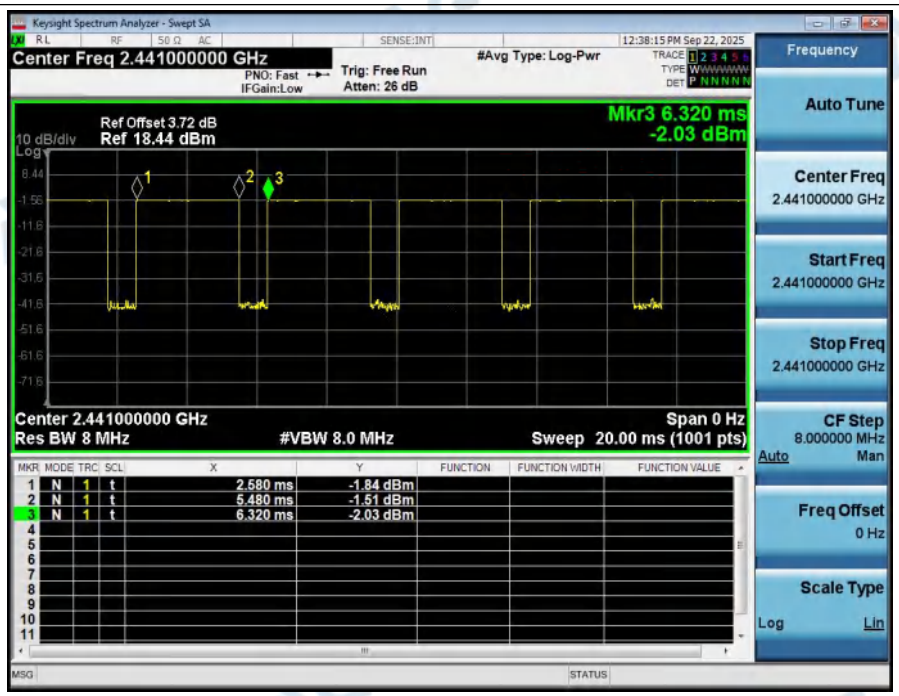
1. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1-DH5	2402.00	77.54	1.10
NVNT	ANT1	1-DH5	2441.00	78.07	1.07
NVNT	ANT1	1-DH5	2480.00	78.19	1.07
NVNT	ANT1	2-DH5	2402.00	78.07	1.07
NVNT	ANT1	2-DH5	2441.00	77.66	1.10
NVNT	ANT1	2-DH5	2480.00	78.19	1.07
NVNT	ANT1	3-DH5	2402.00	78.19	1.07
NVNT	ANT1	3-DH5	2441.00	78.61	1.05
NVNT	ANT1	3-DH5	2480.00	78.19	1.07

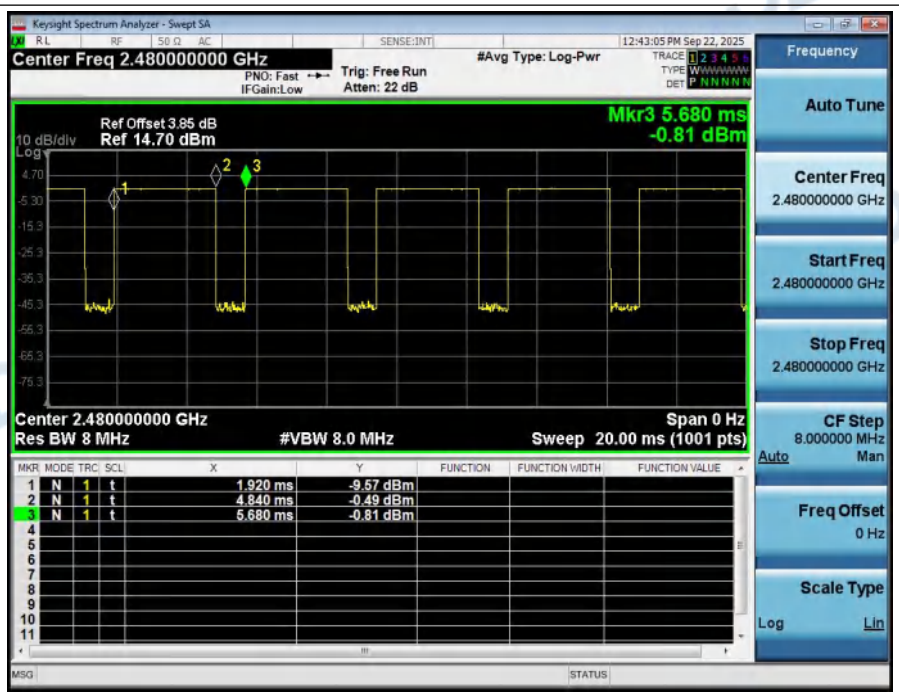
Duty_Cycle_NVNT_ANT1_1-DH5_2402



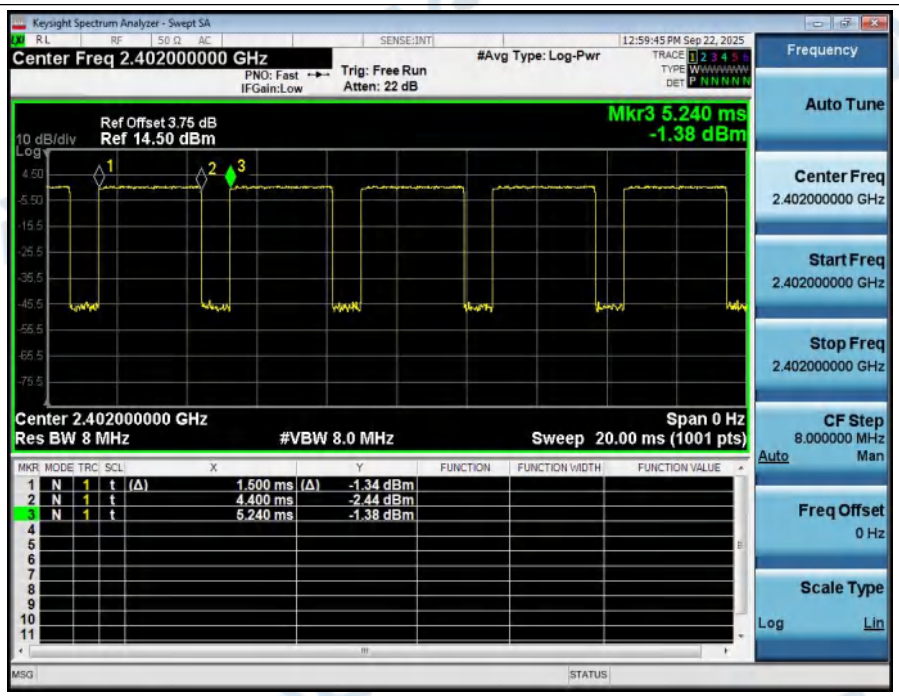
Duty_Cycle_NVNT_ANT1_1-DH5_2441



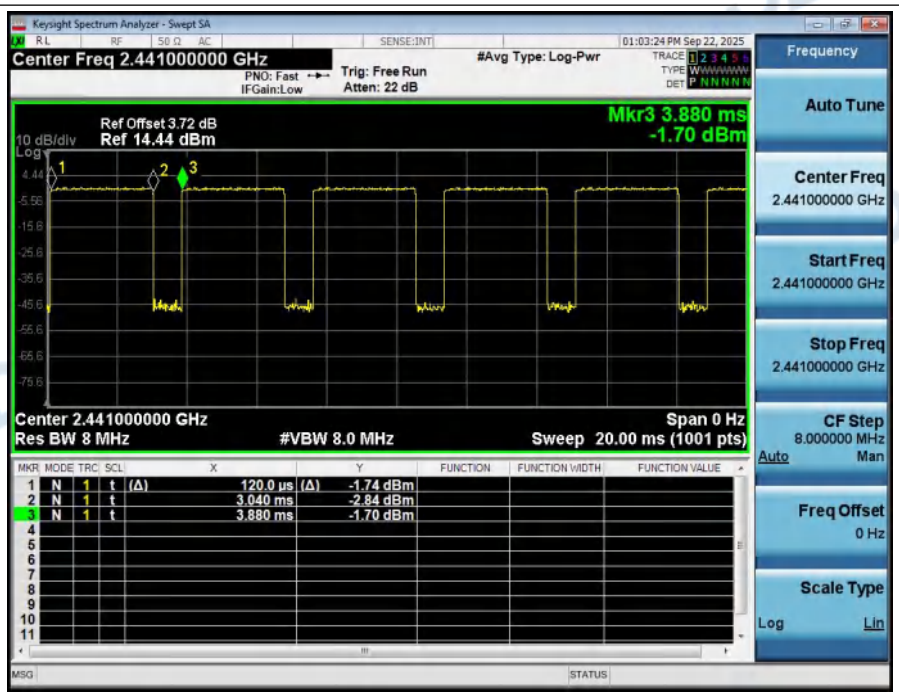
Duty_Cycle_NVNT_ANT1_1-DH5_2480



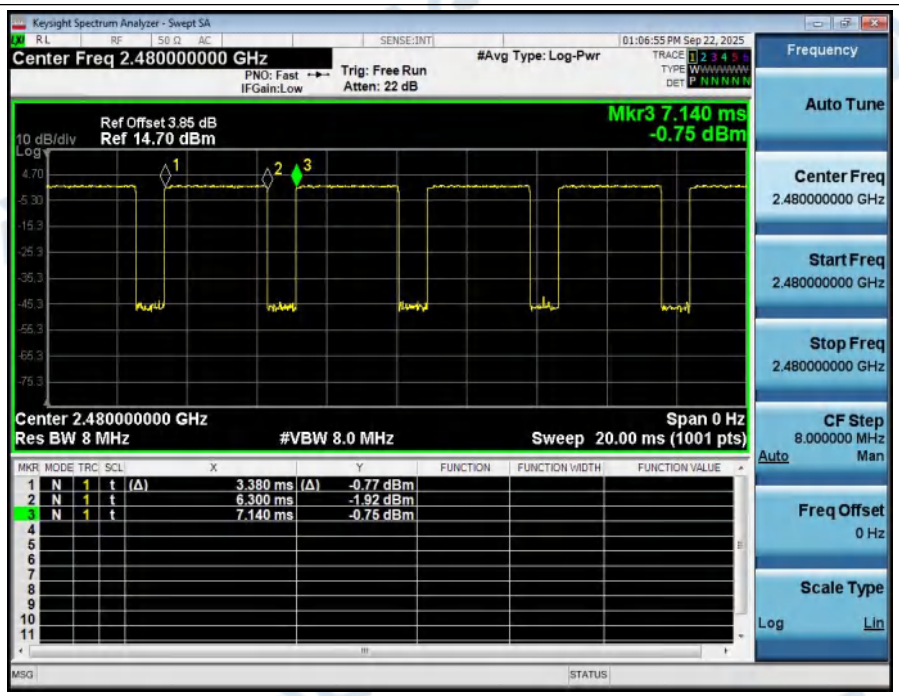
Duty_Cycle_NVNT_ANT1_2-DH5_2402



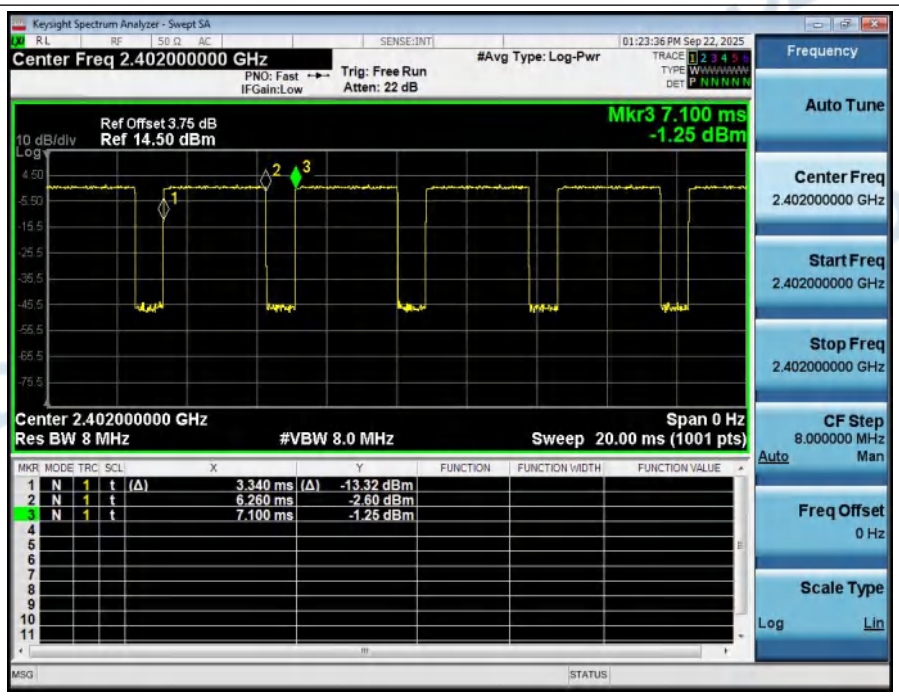
Duty_Cycle_NVNT_ANT1_2-DH5_2441



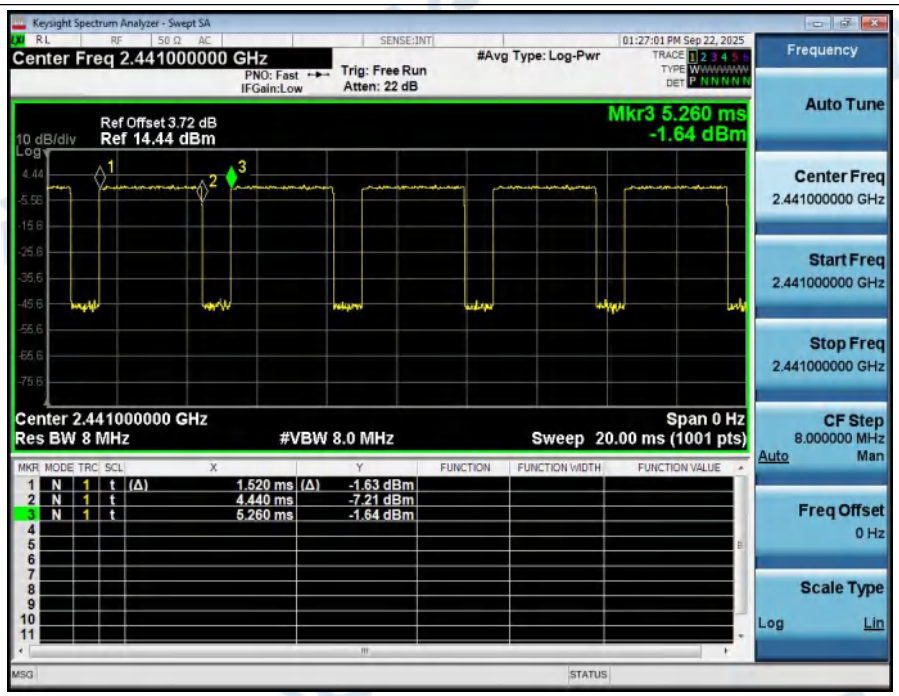
Duty_Cycle_NVNT_ANT1_2-DH5_2480



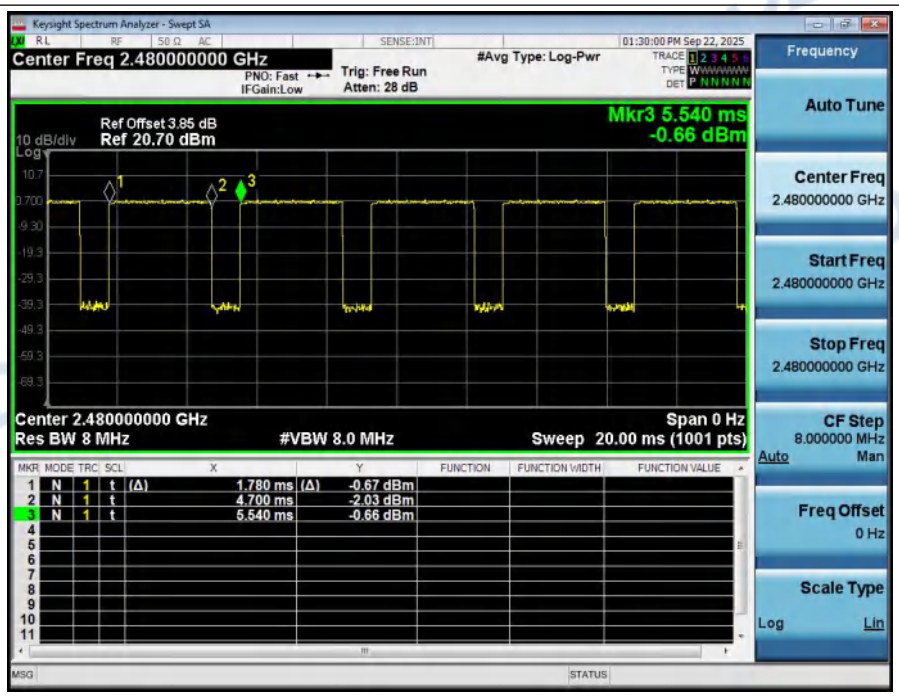
Duty_Cycle_NVNT_ANT1_3-DH5_2402



Duty_Cycle_NVNT_ANT1_3-DH5_2441



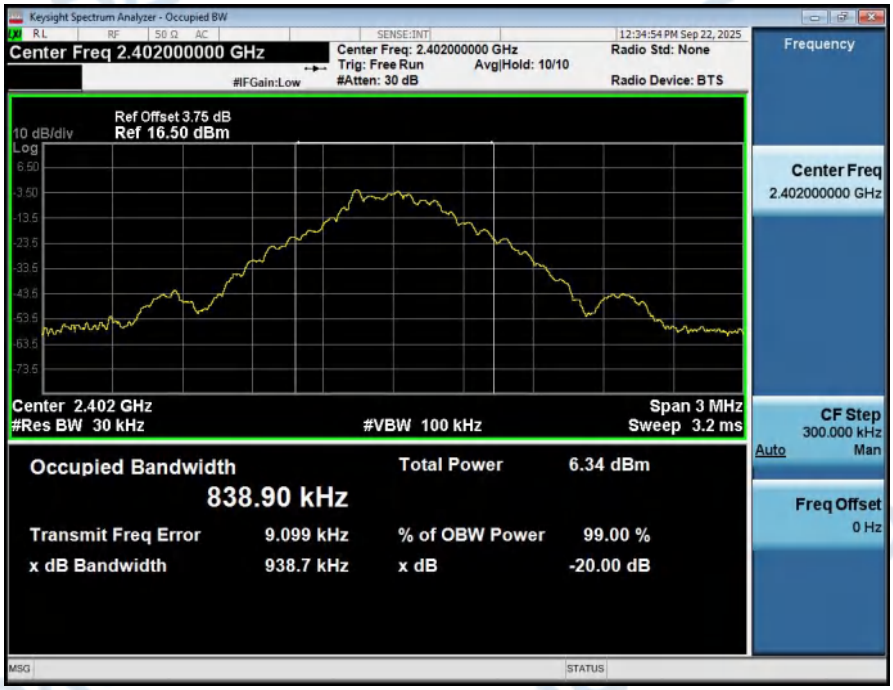
Duty_Cycle_NVNT_ANT1_3-DH5_2480



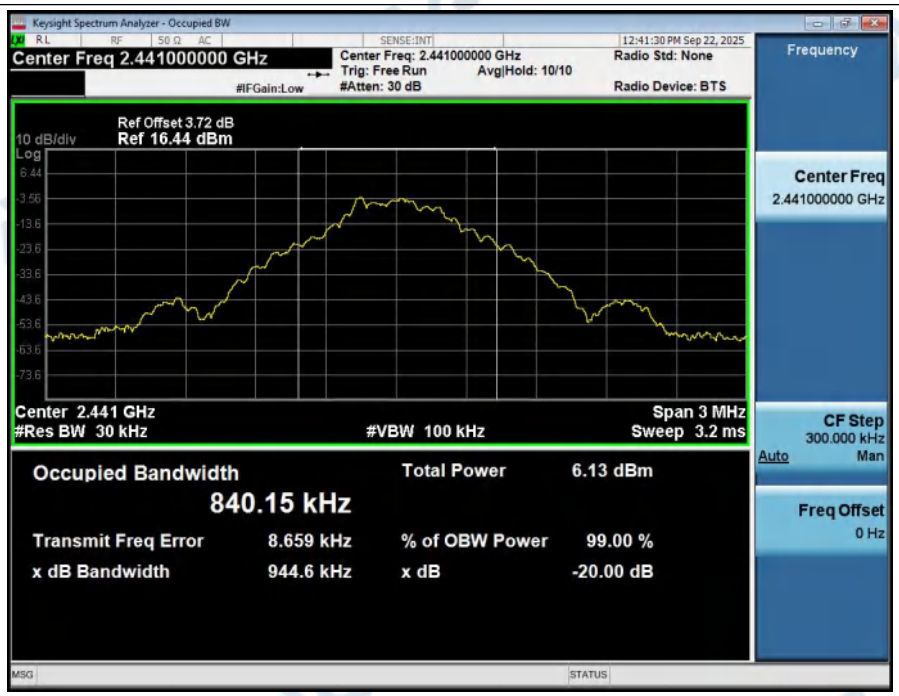
2. -20dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	0.939	No
NVNT	ANT1	1-DH5	2441.00	0.945	No
NVNT	ANT1	1-DH5	2480.00	0.939	No
NVNT	ANT1	2-DH5	2402.00	1.267	Yes
NVNT	ANT1	2-DH5	2441.00	1.266	Yes
NVNT	ANT1	2-DH5	2480.00	1.266	Yes
NVNT	ANT1	3-DH5	2402.00	1.266	Yes
NVNT	ANT1	3-DH5	2441.00	1.263	Yes
NVNT	ANT1	3-DH5	2480.00	1.266	Yes

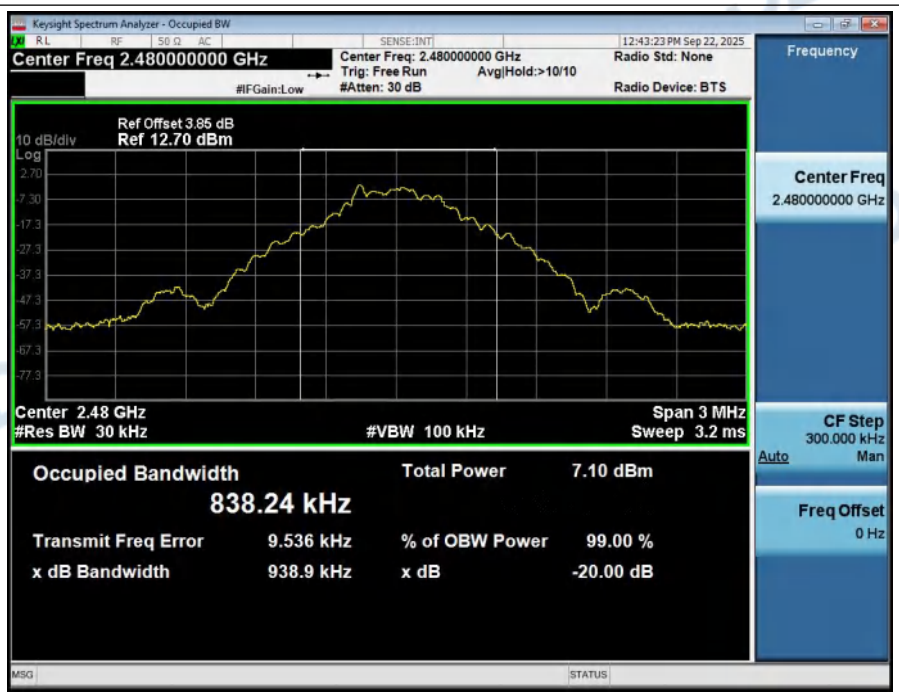
-20dB_Bandwidth_NVNT_ANT1_1-DH5_2402_00



-20dB_Bandwidth_NVNT_ANT1_1-DH5_2441_00



-20dB_Bandwidth_NVNT_ANT1_1-DH5_2480_00

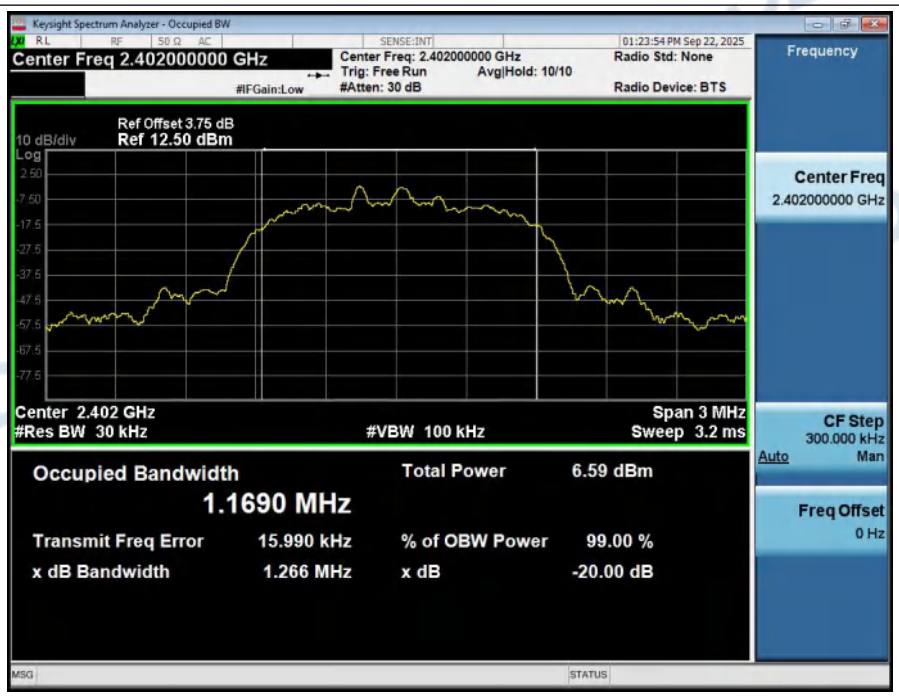


-20dB_Bandwidth_NVNT_ANT1_2-DH5_2402_00

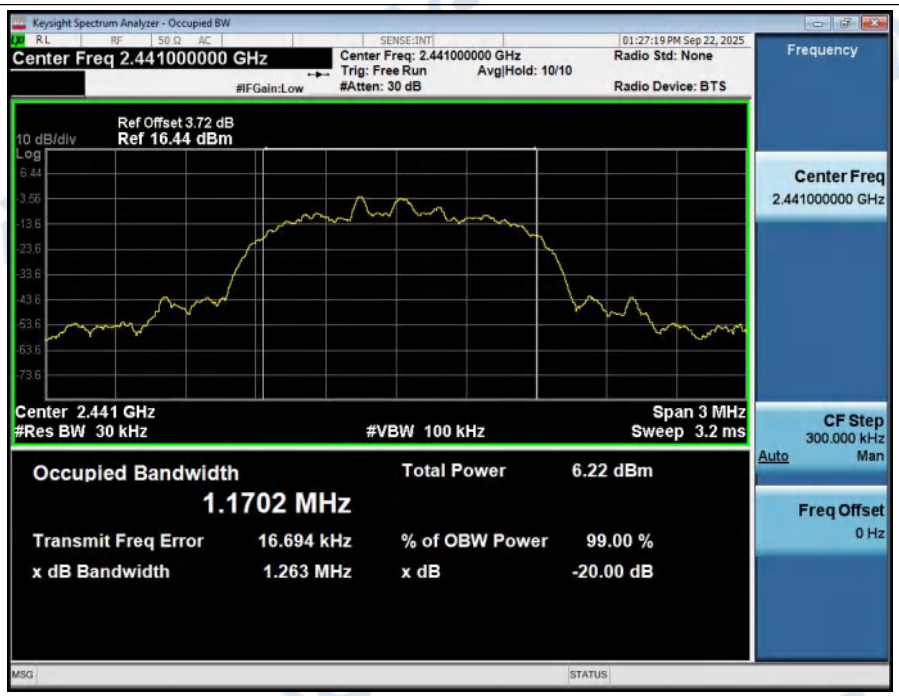
-20dB_Bandwidth_NVNT_ANT1_2-DH5_2441_00

-20dB_Bandwidth_NVNT_ANT1_2-DH5_2480_00

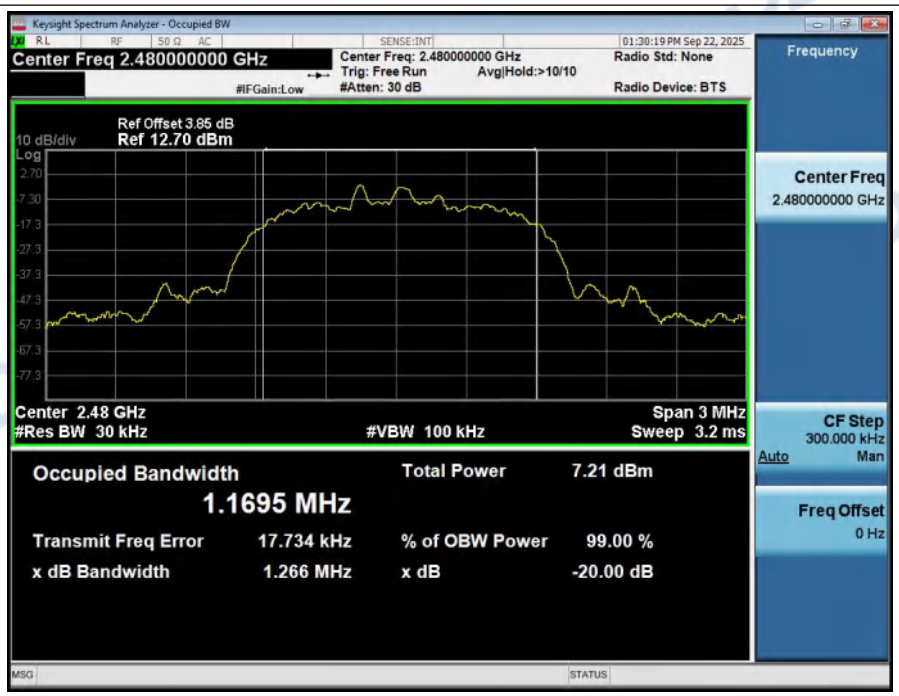
-20dB_Bandwidth_NVNT_ANT1_3-DH5_2402_00



-20dB_Bandwidth_NVNT_ANT1_3-DH5_2441_00



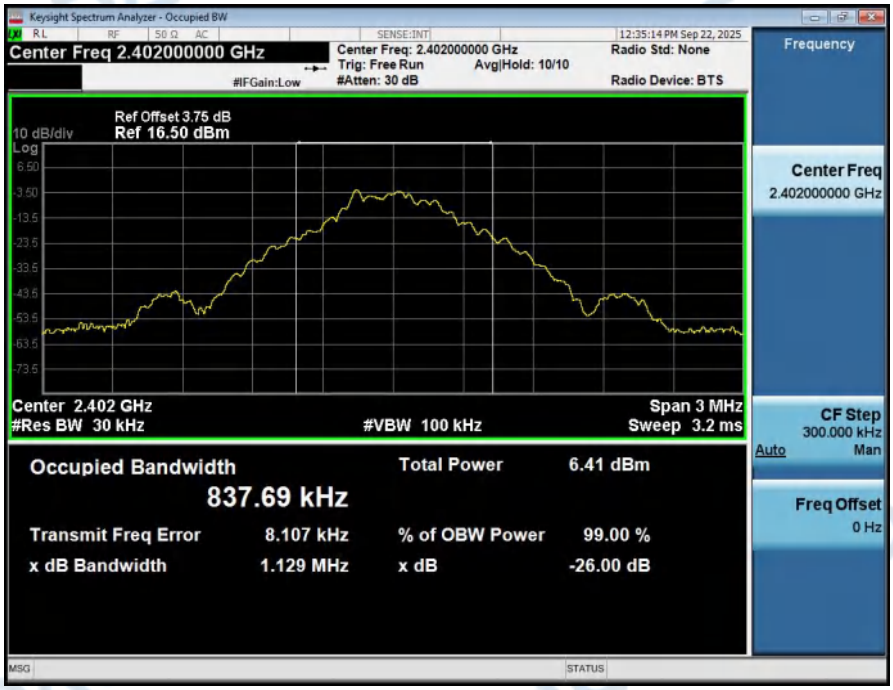
-20dB_Bandwidth_NVNT_ANT1_3-DH5_2480_00



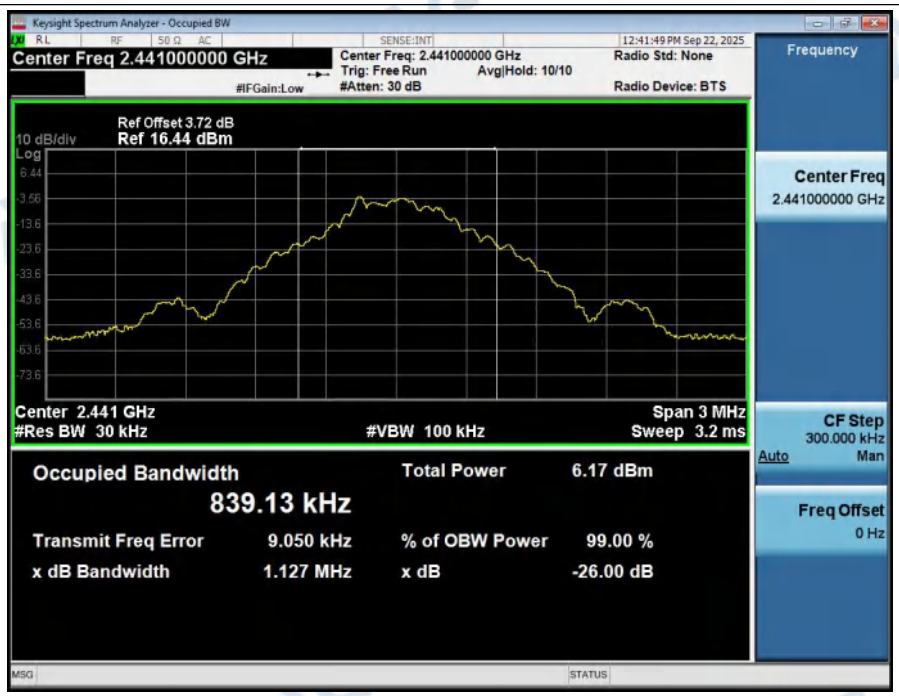
3. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	1-DH5	2402.00	0.838
NVNT	ANT1	1-DH5	2441.00	0.839
NVNT	ANT1	1-DH5	2480.00	0.842
NVNT	ANT1	2-DH5	2402.00	1.151
NVNT	ANT1	2-DH5	2441.00	1.151
NVNT	ANT1	2-DH5	2480.00	1.151
NVNT	ANT1	3-DH5	2402.00	1.169
NVNT	ANT1	3-DH5	2441.00	1.169
NVNT	ANT1	3-DH5	2480.00	1.168

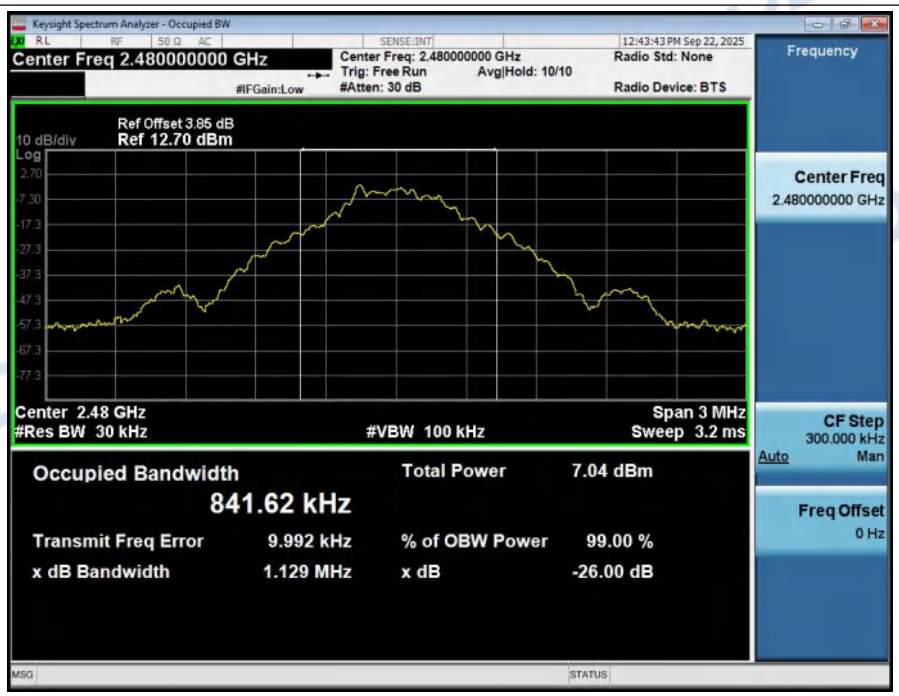
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2402_00



99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2441_00



99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2480_00

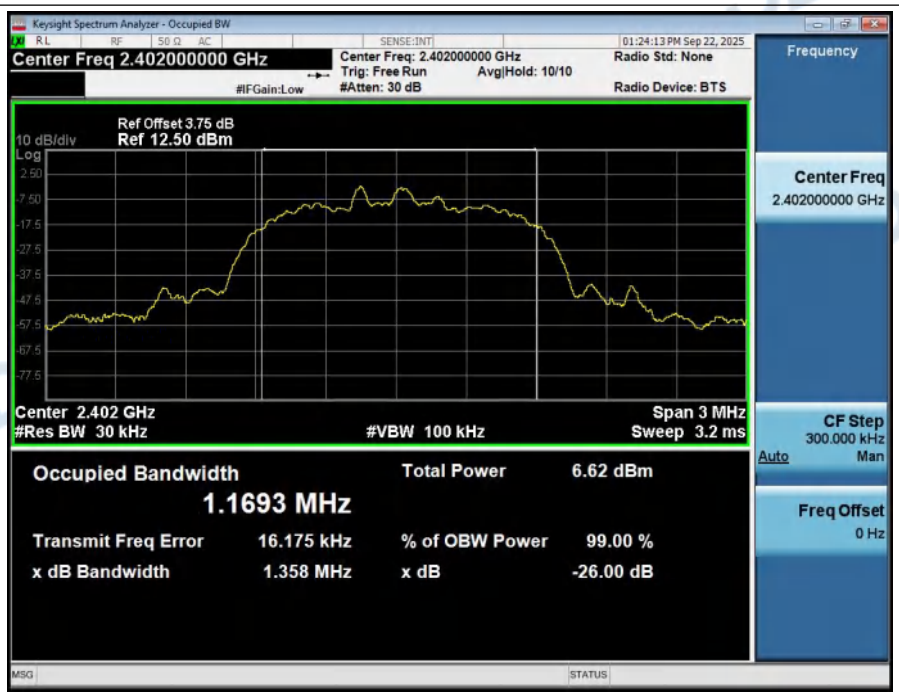


99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2402_00

99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2441_00

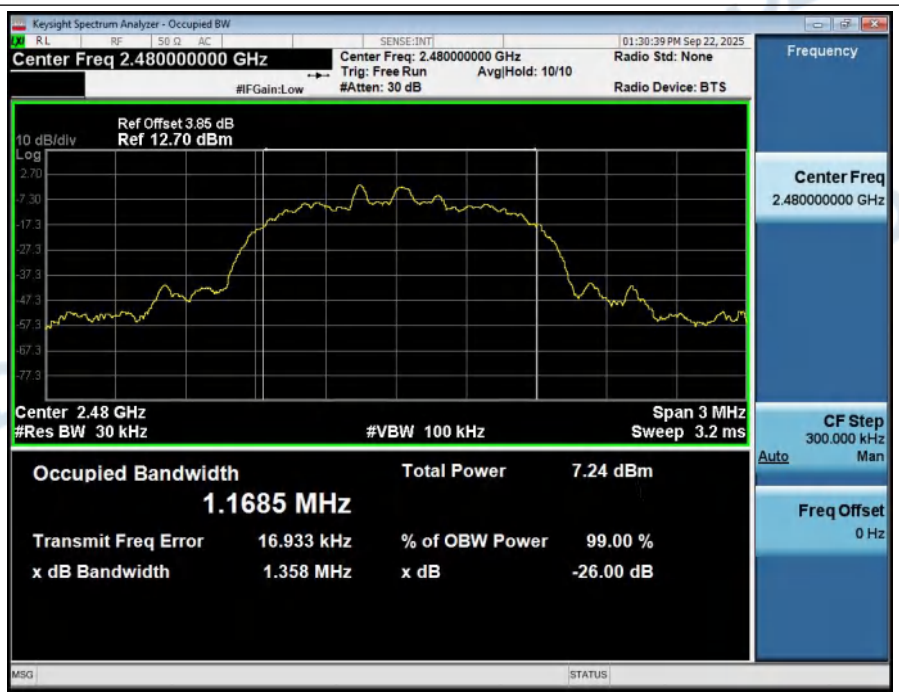
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2480_00

99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2402_00



99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2441_00

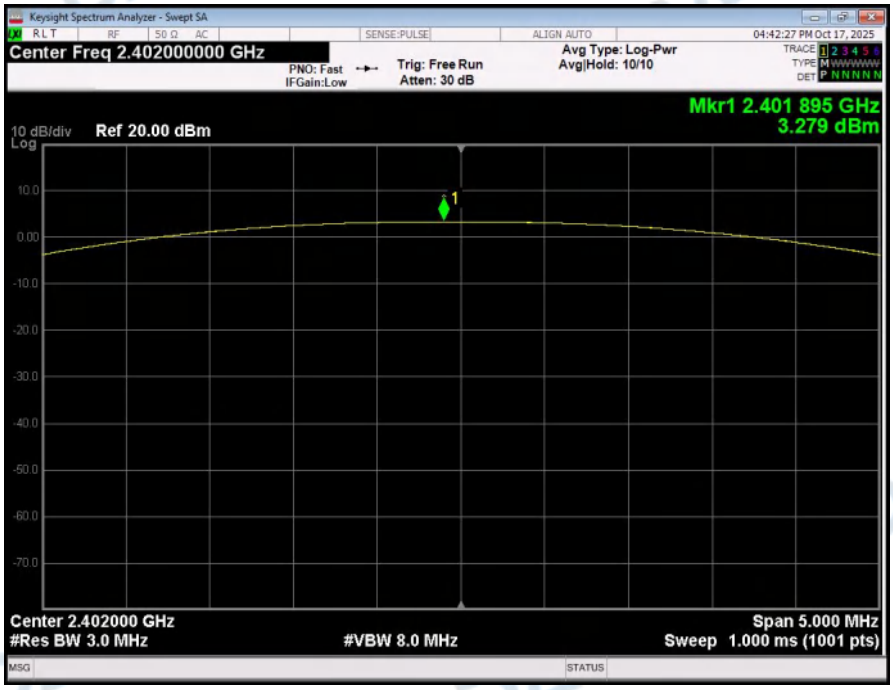
99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2480_00



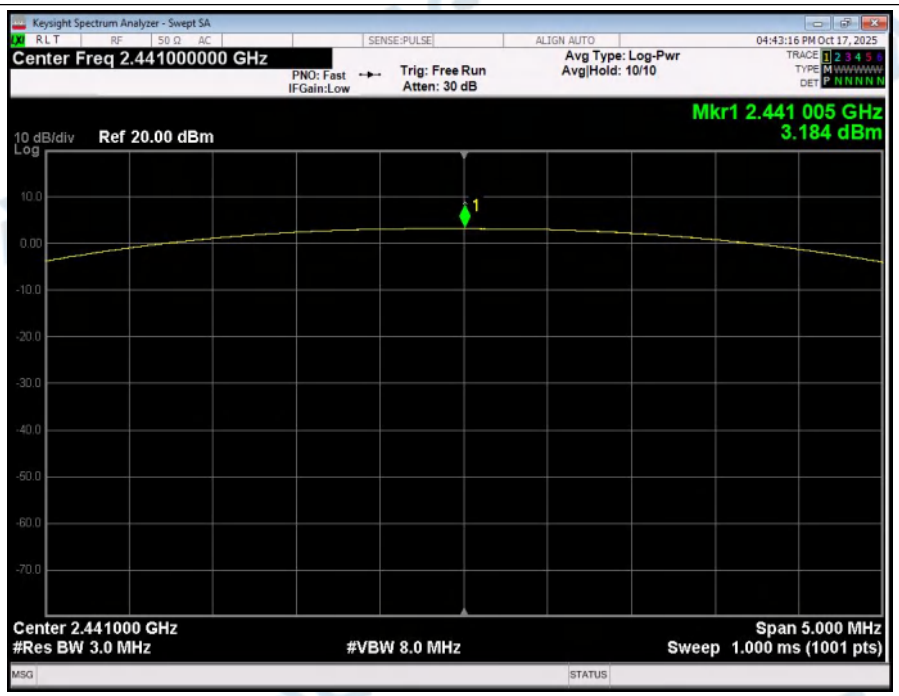
4. Peak Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH5	2402.00	3.28	2.13	1000	Pass
NVNT	ANT1	1-DH5	2441.00	3.18	2.08	1000	Pass
NVNT	ANT1	1-DH5	2480.00	4.62	2.90	1000	Pass
NVNT	ANT1	2-DH5	2402.00	3.40	2.19	125	Pass
NVNT	ANT1	2-DH5	2441.00	3.23	2.10	125	Pass
NVNT	ANT1	2-DH5	2480.00	4.66	2.92	125	Pass
NVNT	ANT1	3-DH5	2402.00	3.06	1.06	125	Pass
NVNT	ANT1	3-DH5	2441.00	3.44	2.21	125	Pass
NVNT	ANT1	3-DH5	2480.00	4.81	3.03	125	Pass

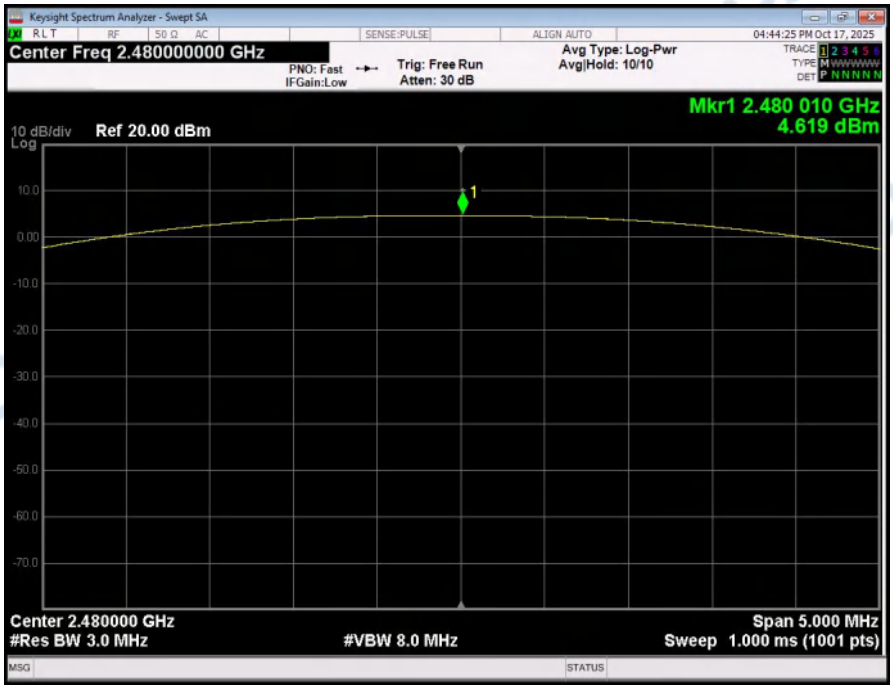
Peak_Output_Power_BT_1-DH5_2402



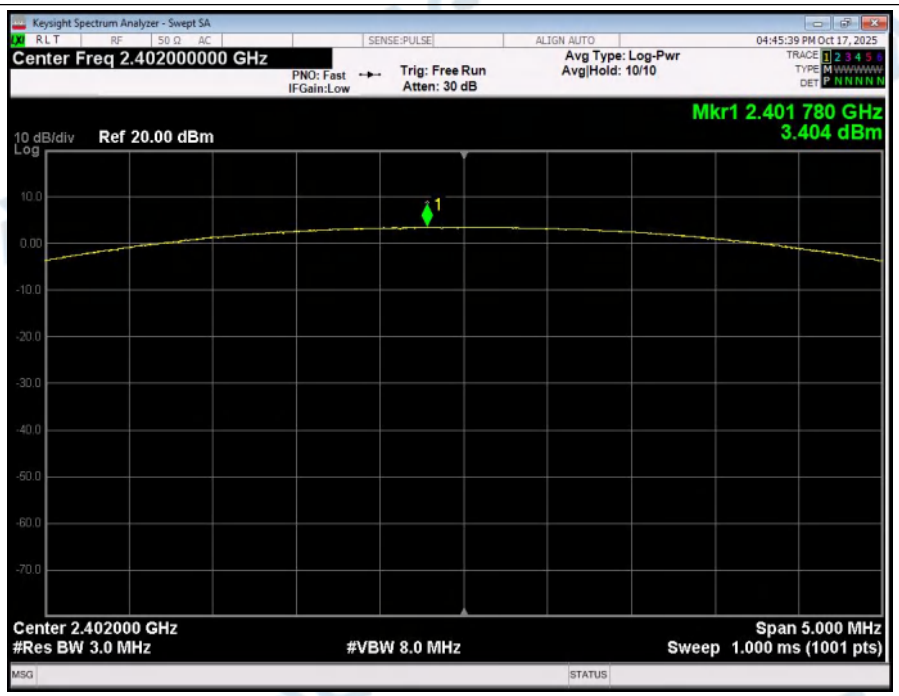
Peak_Output_Power_BT_1-DH5_2441



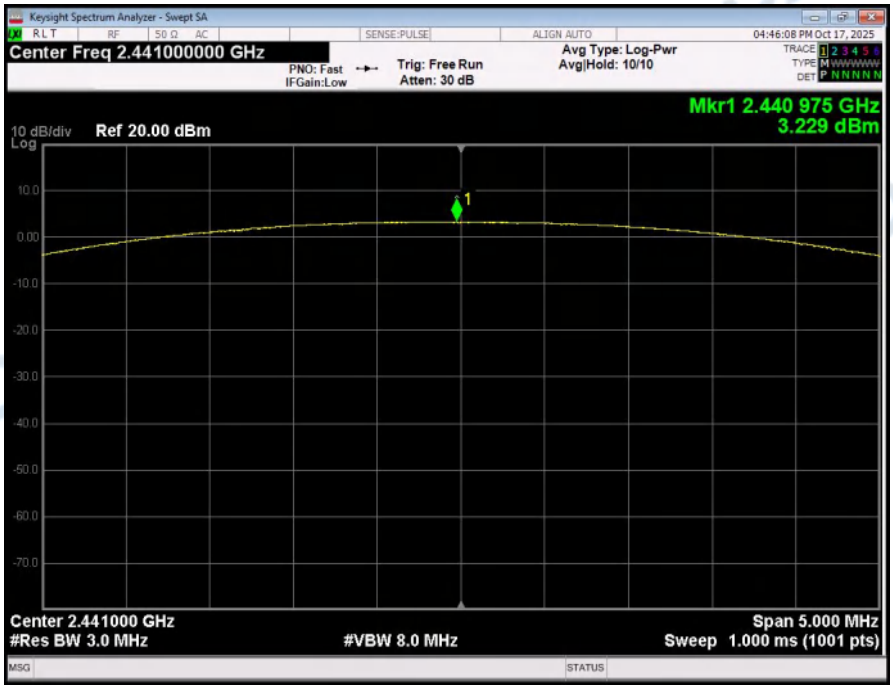
Peak_Output_Power_BT_1-DH5_2480



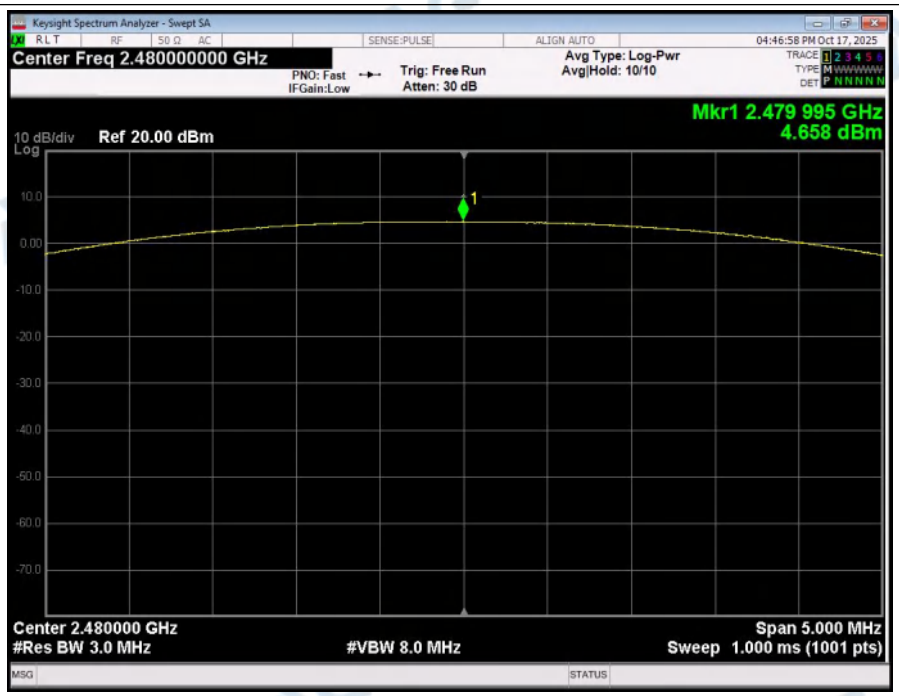
Peak_Output_Power_BT_2-DH5_2402



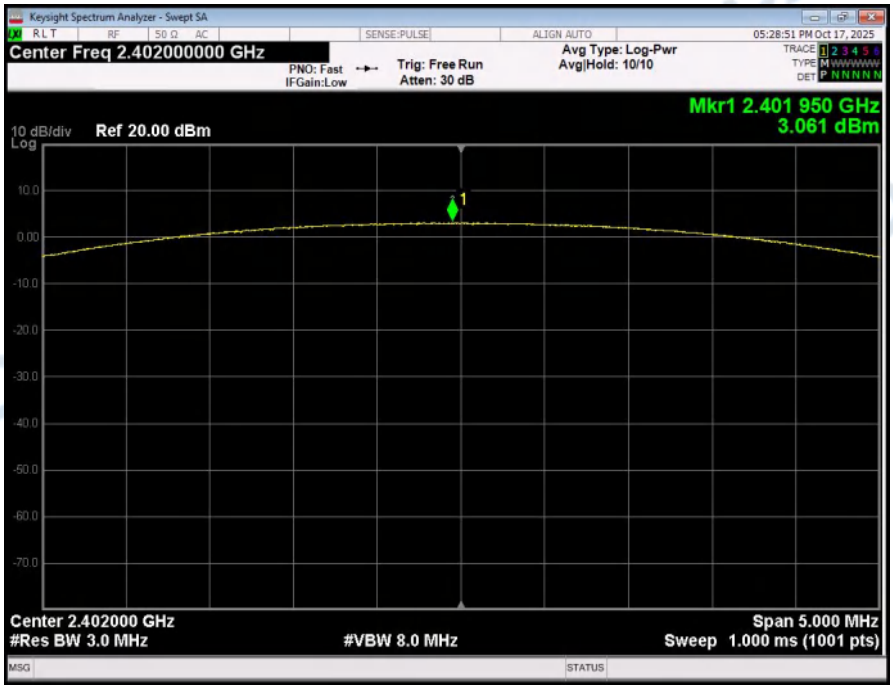
Peak_Output_Power_BT_2-DH5_2441



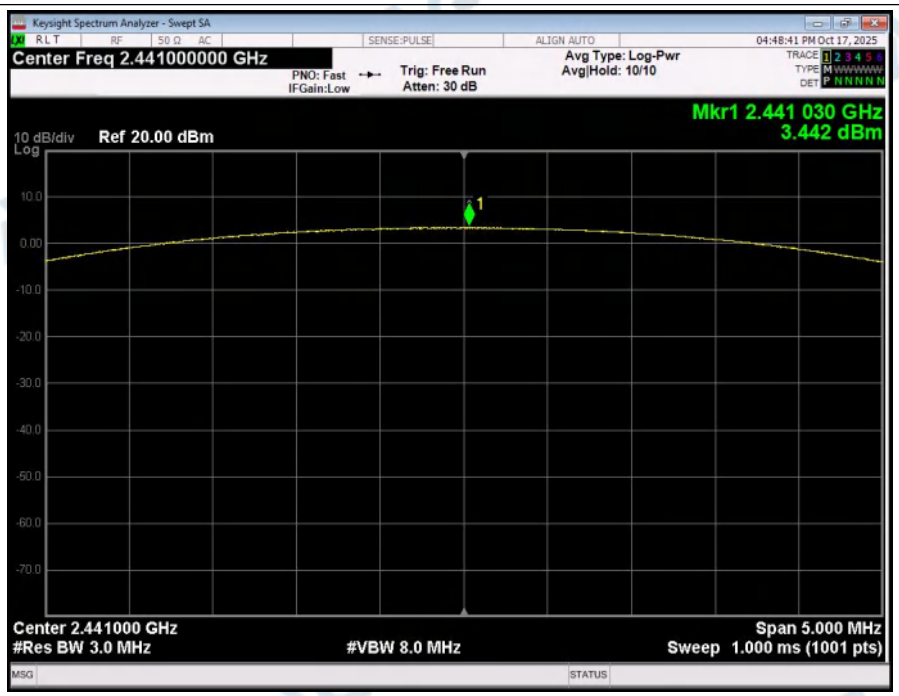
Peak_Output_Power_BT_2-DH5_2480



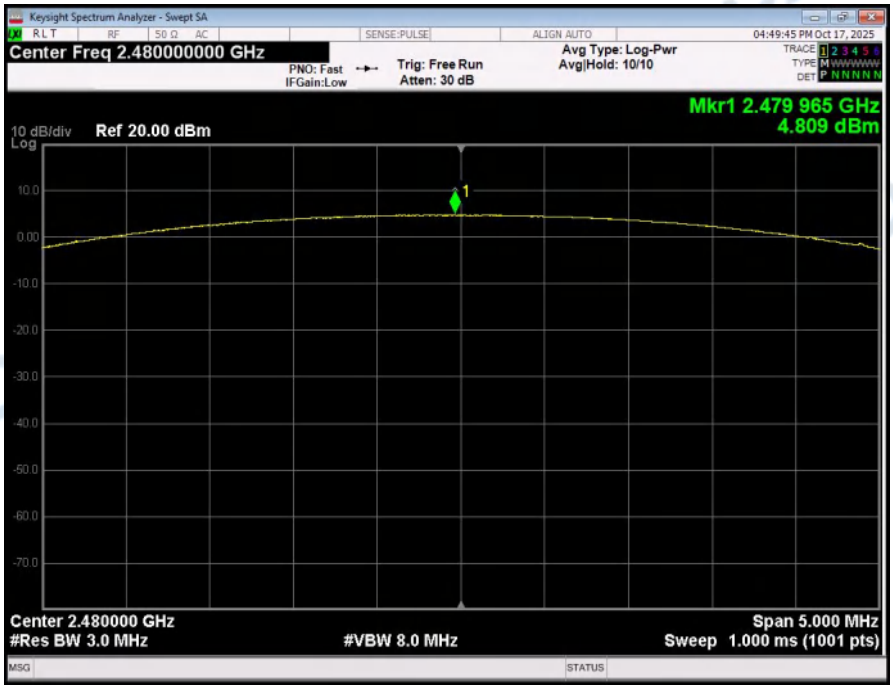
Peak_Output_Power_BT_3-DH5_2402



Peak_Output_Power_BT_3-DH5_2441



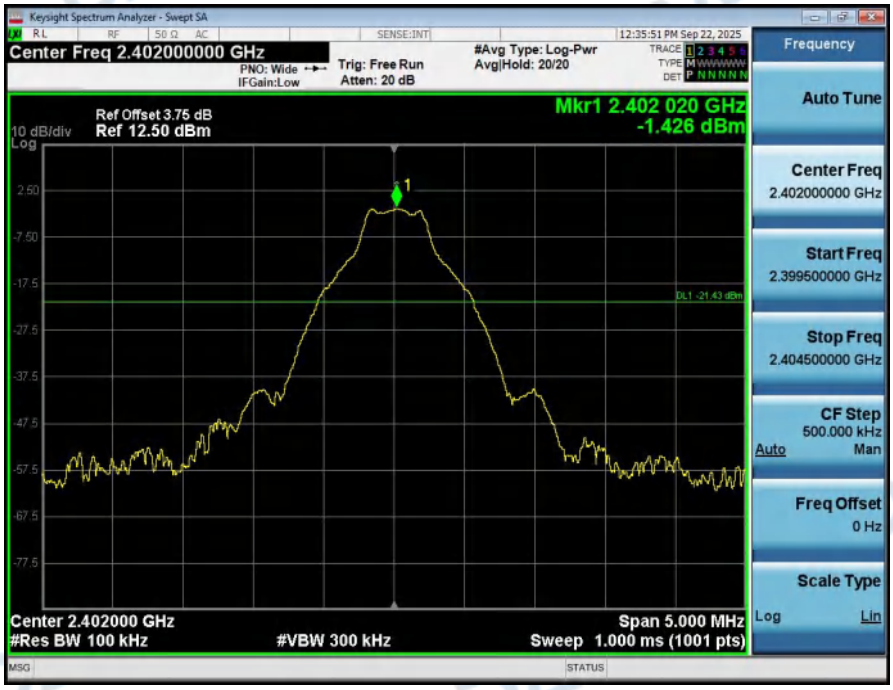
Peak_Output_Power_BT_3-DH5_2480



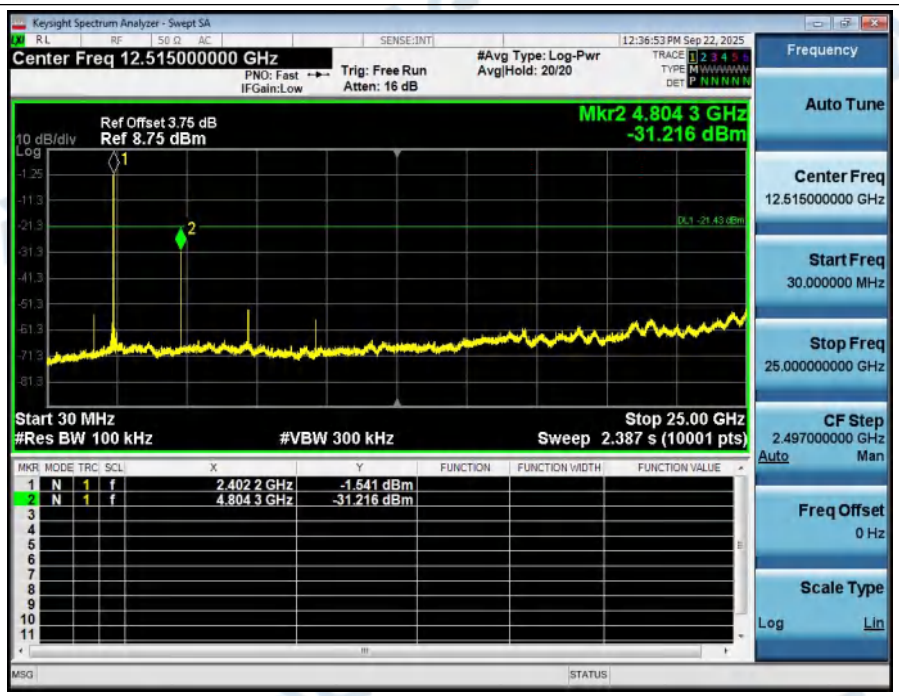
5. Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-1.426	-31.216	-21.426	Pass
NVNT	ANT1	1-DH5	2441.00	-1.728	-33.974	-21.728	Pass
NVNT	ANT1	1-DH5	2480.00	-0.749	-34.187	-20.749	Pass
NVNT	ANT1	2-DH5	2402.00	-1.311	-31.135	-21.311	Pass
NVNT	ANT1	2-DH5	2441.00	-1.723	-34.445	-21.723	Pass
NVNT	ANT1	2-DH5	2480.00	-0.774	-37.320	-20.774	Pass
NVNT	ANT1	3-DH5	2402.00	-1.330	-36.856	-21.330	Pass
NVNT	ANT1	3-DH5	2441.00	-1.654	-34.711	-21.654	Pass
NVNT	ANT1	3-DH5	2480.00	-0.749	-34.308	-20.749	Pass

1_Reference_Level_NVNT_ANT1_1-DH5_2402_00

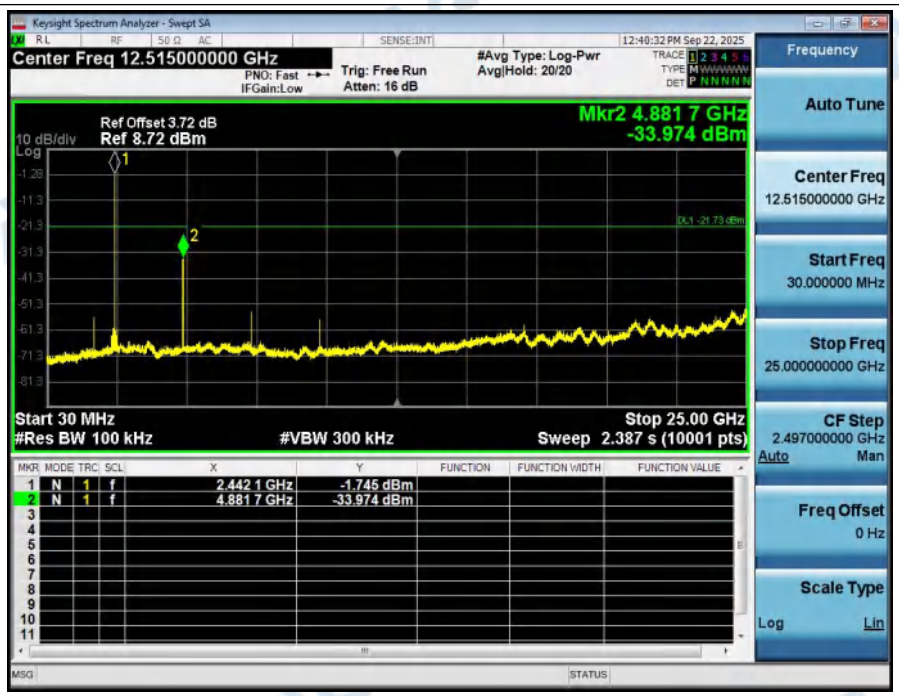


2_Spurious_Emissions_NVNT_ANT1_1-DH5_2402_00



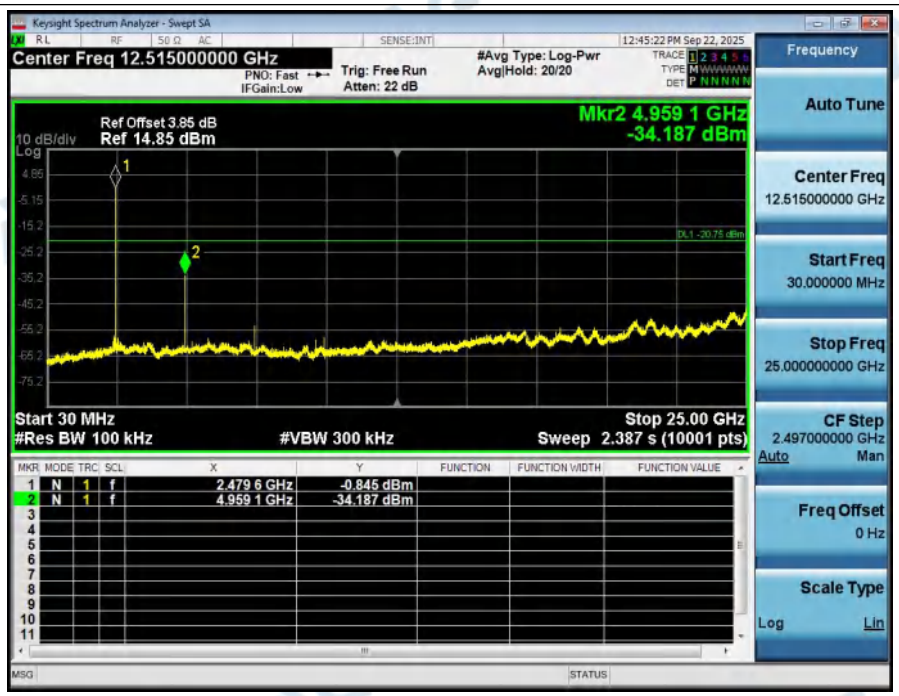
1_Reference_Level_NVNT_ANT1_1-DH5_2441_00

2_Spurious_Emissions_NVNT_ANT1_1-DH5_2441_00

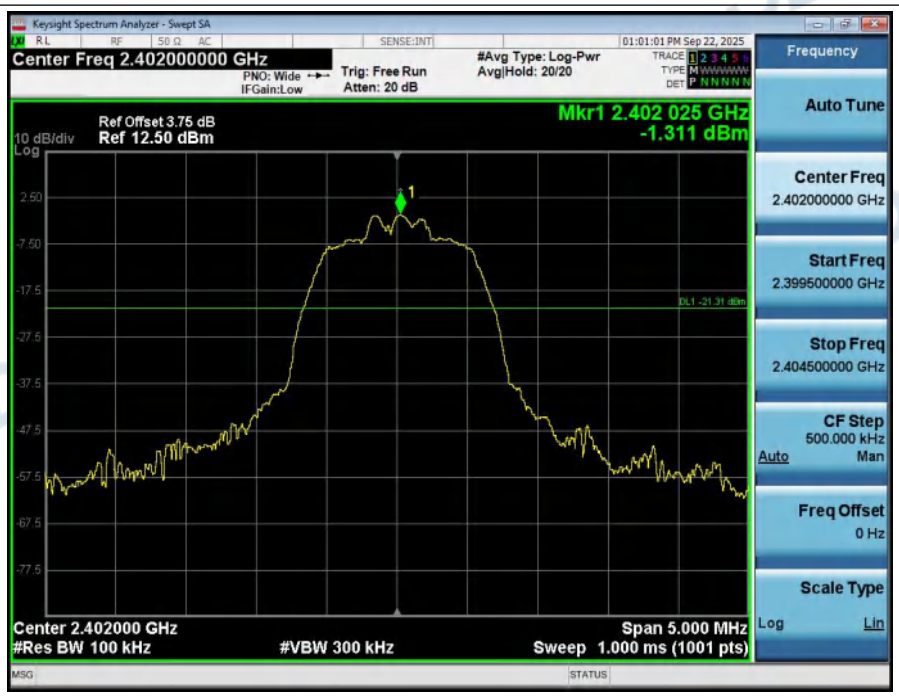


1_Reference_Level_NVNT_ANT1_1-DH5_2480_00

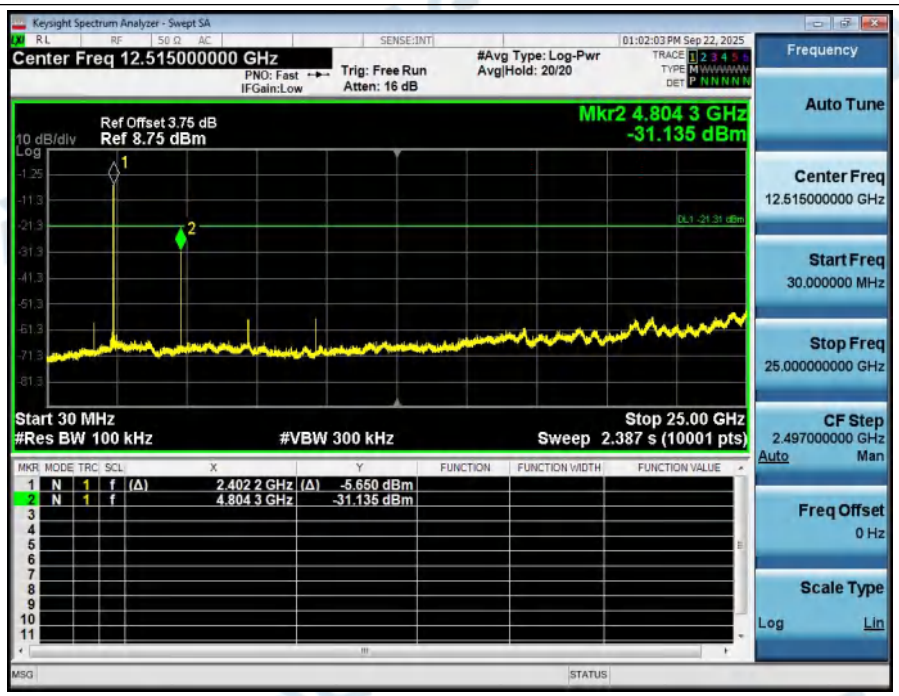
2_Spurious_Emissions_NVNT_ANT1_1-DH5_2480_00



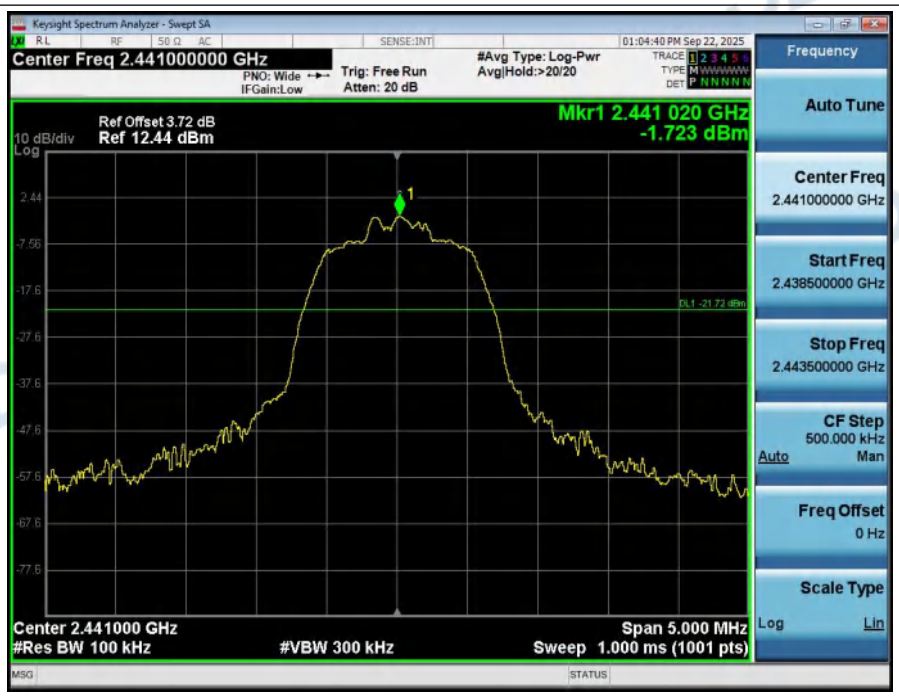
1_Reference_Level_NVNT_ANT1_2-DH5_2402_00



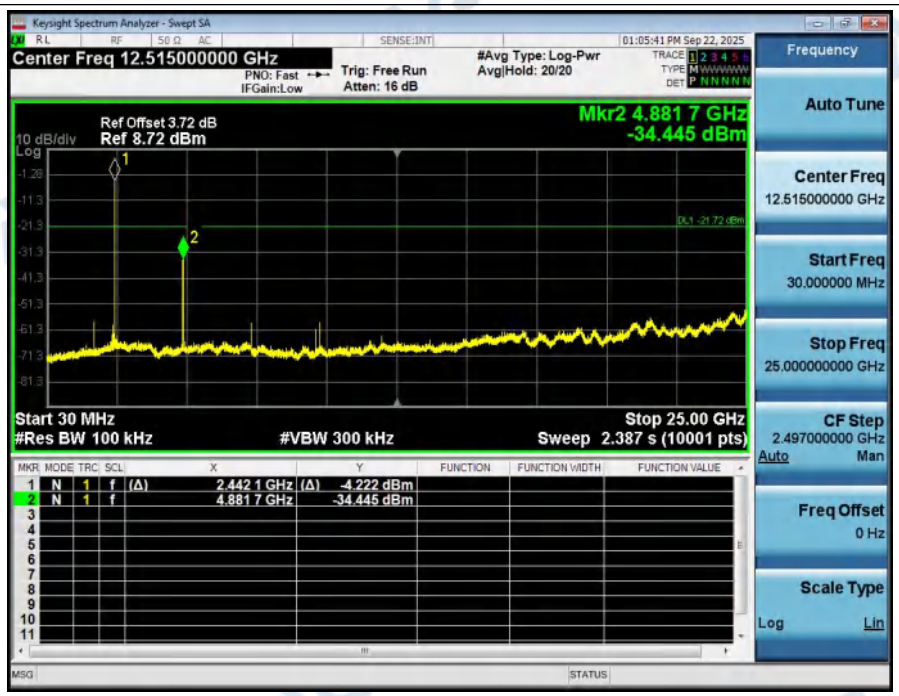
2_Spurious_Emissions_NVNT_ANT1_2-DH5_2402_00



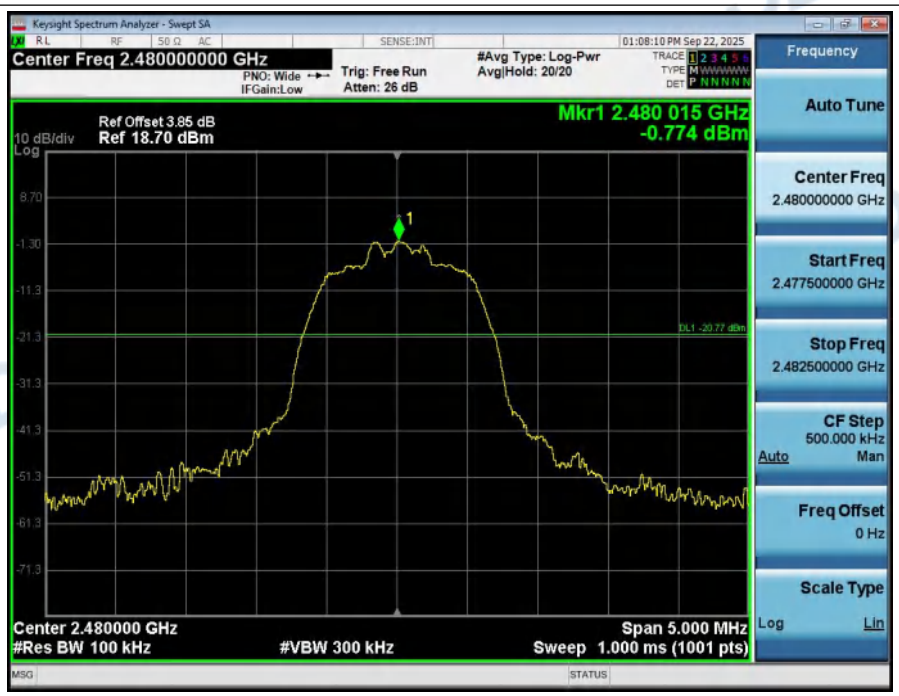
1_Reference_Level_NVNT_ANT1_2-DH5_2441_00



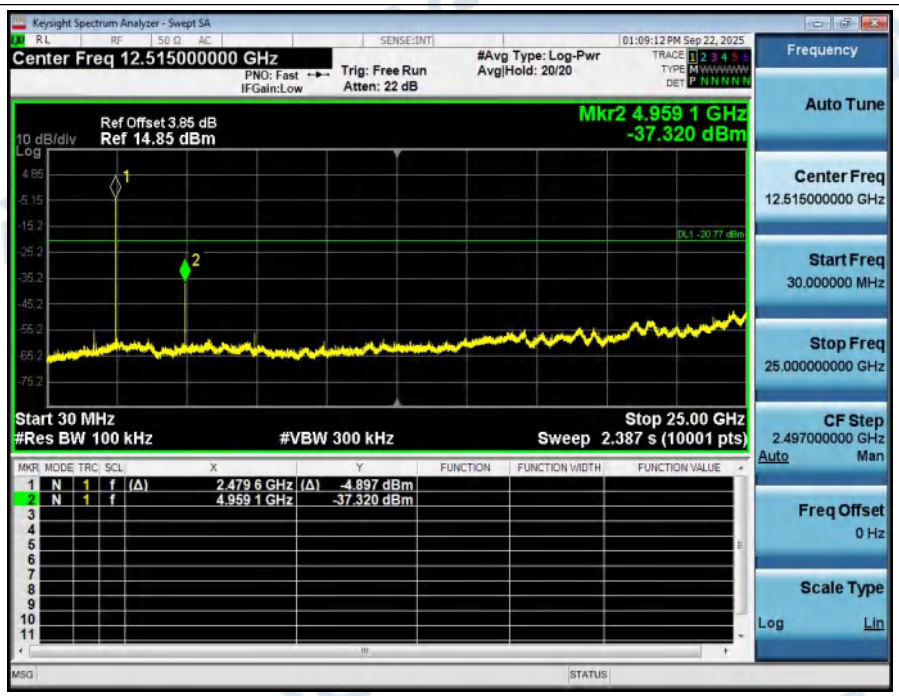
2_Spurious_Emissions_NVNT_ANT1_2-DH5_2441_00



1_Reference_Level_NVNT_ANT1_2-DH5_2480_00

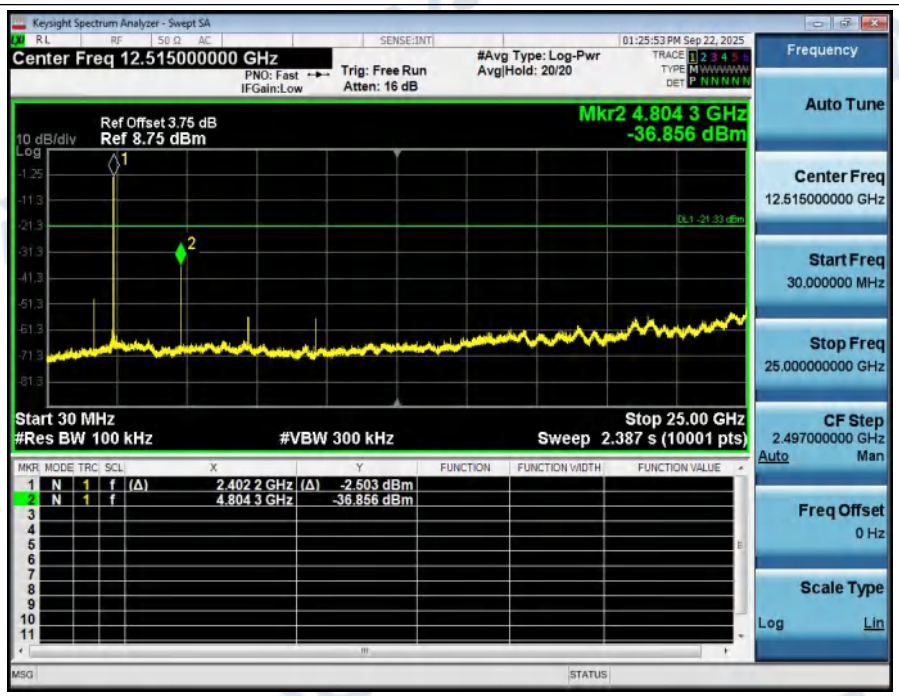


2_Spurious_Emissions_NVNT_ANT1_2-DH5_2480_00

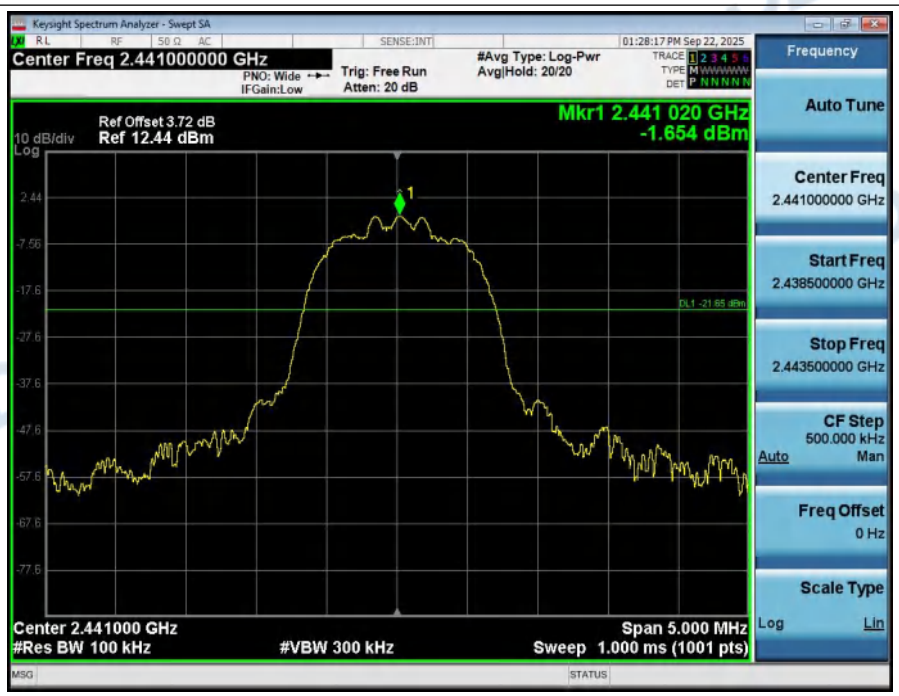


1_Reference_Level_NVNT_ANT1_3-DH5_2402_00

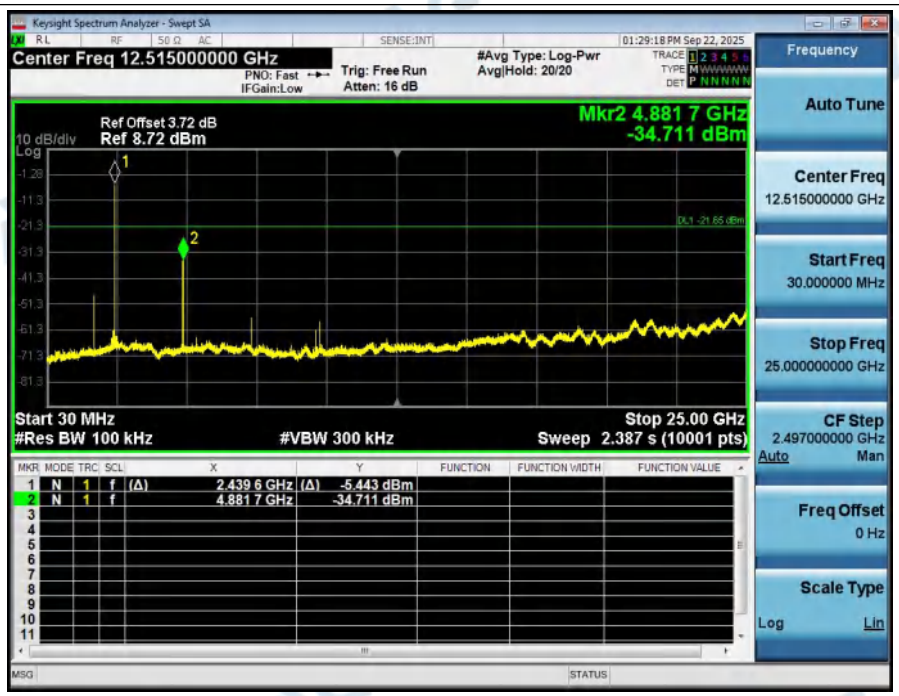
2_Spurious_Emissions_NVNT_ANT1_3-DH5_2402_00



1_Reference_Level_NVNT_ANT1_3-DH5_2441_00

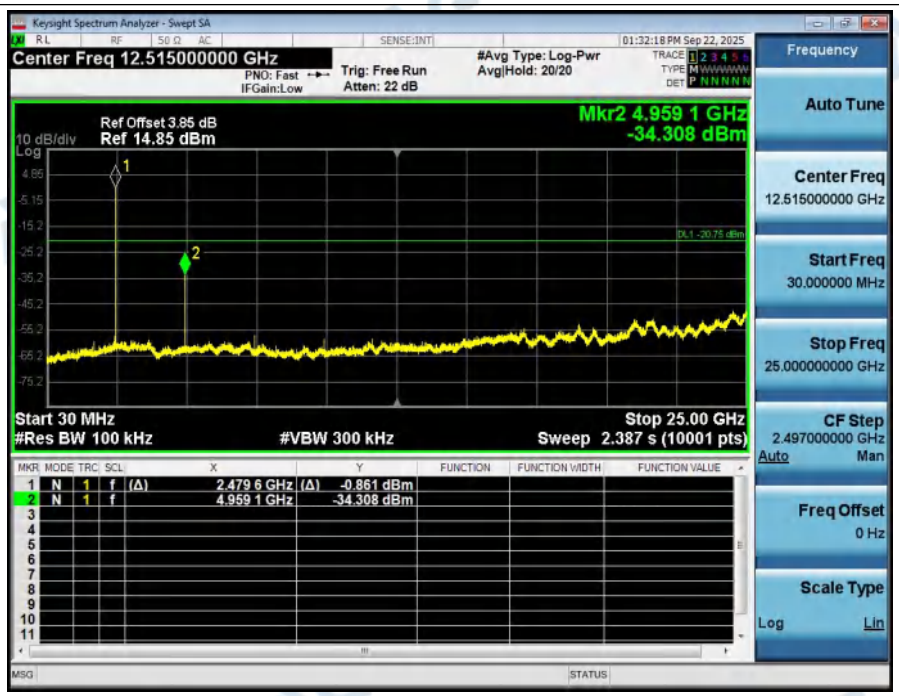


2_Spurious_Emissions_NVNT_ANT1_3-DH5_2441_00



1_Reference_Level_NVNT_ANT1_3-DH5_2480_00

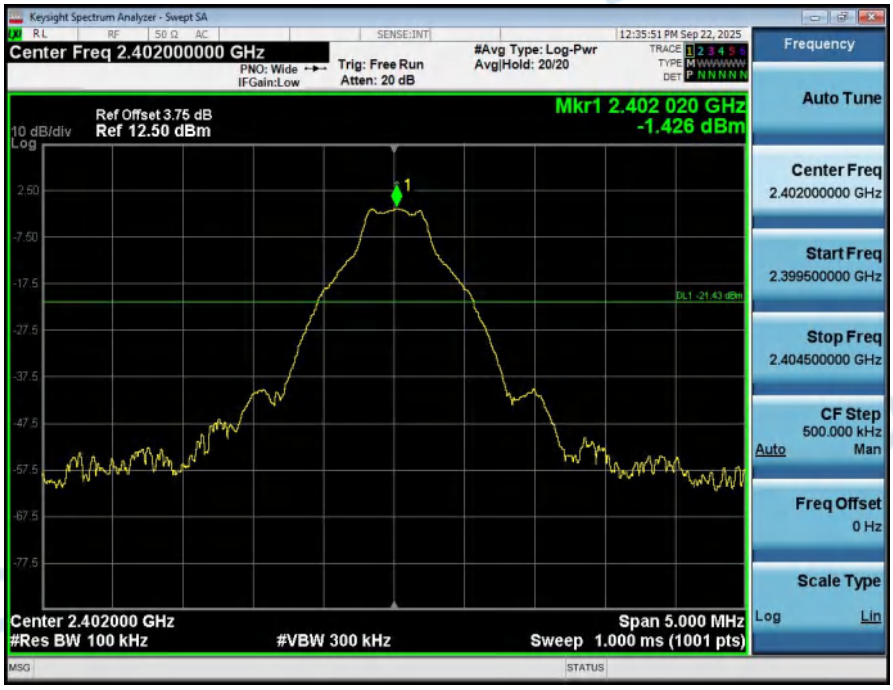
2_Spurious_Emissions_NVNT_ANT1_3-DH5_2480_00



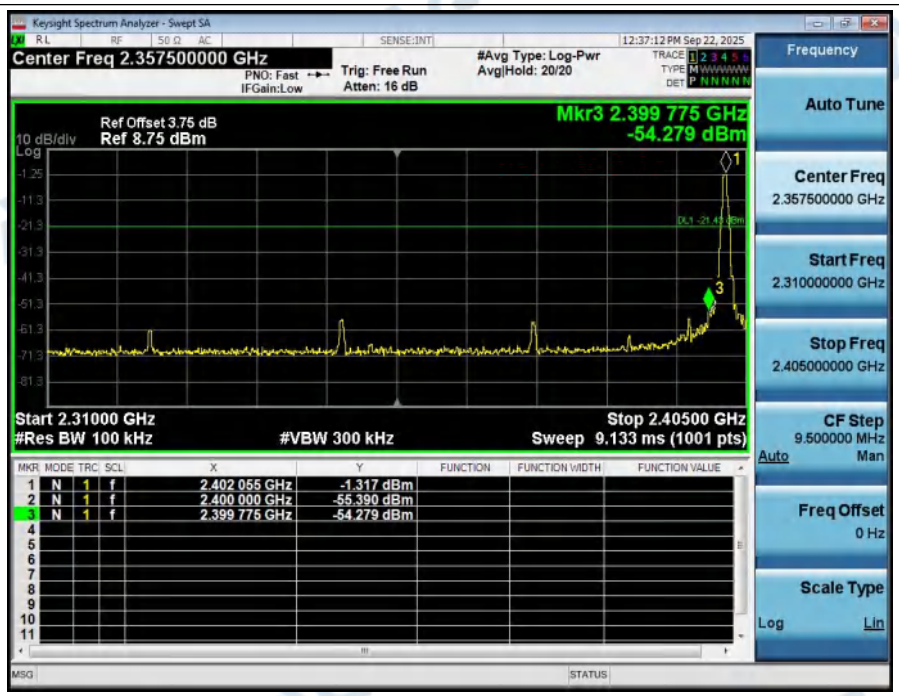
6. Bandedge

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-1.426	-54.279	-21.426	Pass
NVNT	ANT1	1-DH5	Hopping_LCH	-0.766	-56.481	-20.766	Pass
NVNT	ANT1	1-DH5	2480.00	-0.749	-56.725	-20.749	Pass
NVNT	ANT1	1-DH5	Hopping_HCH	-0.663	-59.053	-20.663	Pass
NVNT	ANT1	2-DH5	2402.00	-1.311	-52.577	-21.311	Pass
NVNT	ANT1	2-DH5	Hopping_LCH	-0.762	-57.022	-20.762	Pass
NVNT	ANT1	2-DH5	2480.00	-0.774	-55.728	-20.774	Pass
NVNT	ANT1	2-DH5	Hopping_HCH	-0.583	-59.141	-20.583	Pass
NVNT	ANT1	3-DH5	2402.00	-1.330	-52.885	-21.330	Pass
NVNT	ANT1	3-DH5	Hopping_LCH	-0.939	-57.744	-20.939	Pass
NVNT	ANT1	3-DH5	2480.00	-0.749	-56.924	-20.749	Pass
NVNT	ANT1	3-DH5	Hopping_HCH	-0.845	-60.533	-20.845	Pass

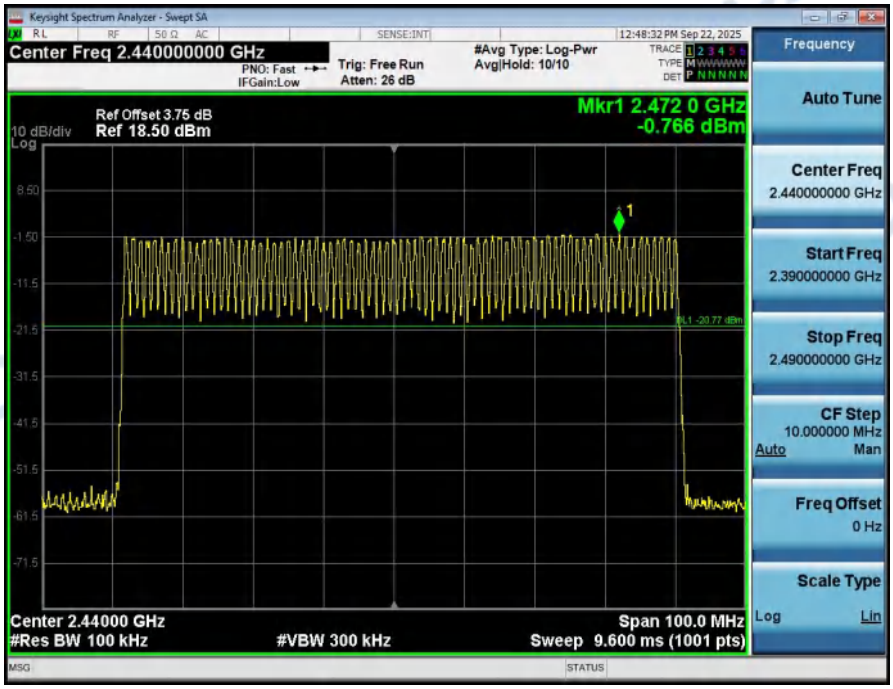
1_Reference_Level_NVNT_ANT1_1-DH5_2402_00



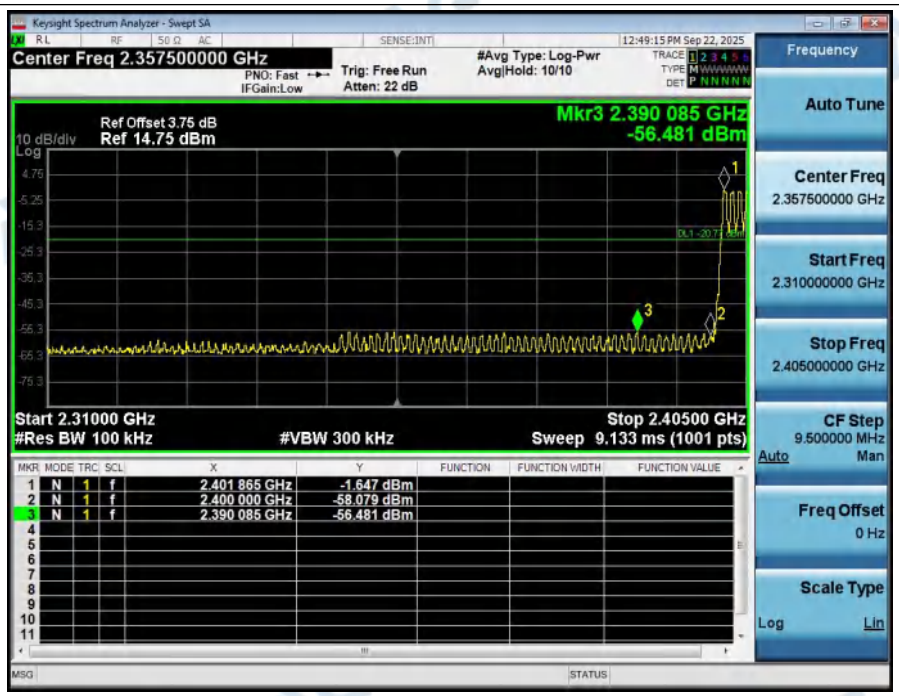
2_Bandedge_NVNT_ANT1_1-DH5_2402_00



1_Reference_Level_Hopping_NVNT_ANT1_1-DH5_Hopping

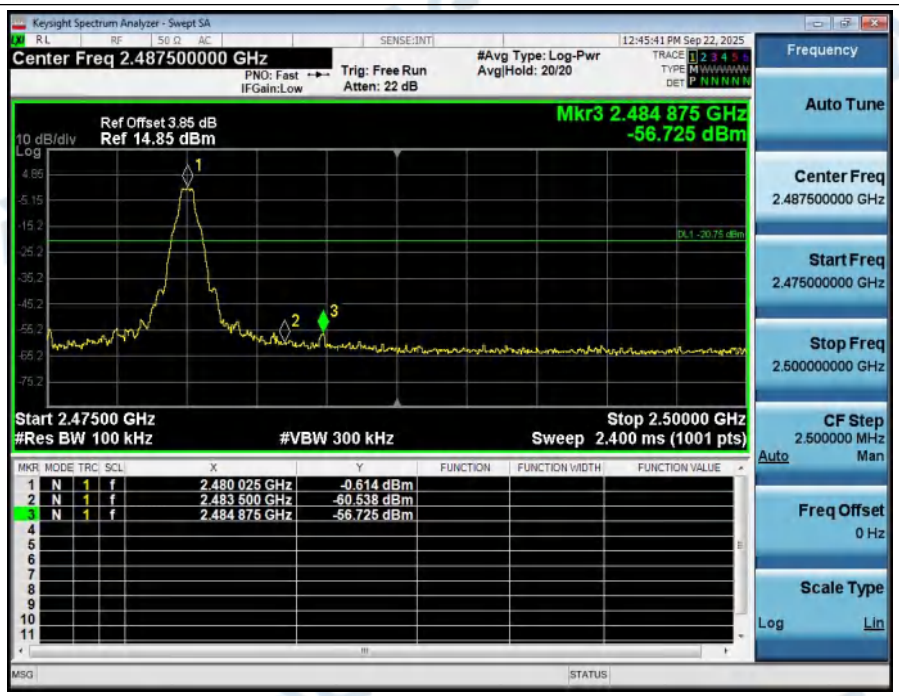


2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping

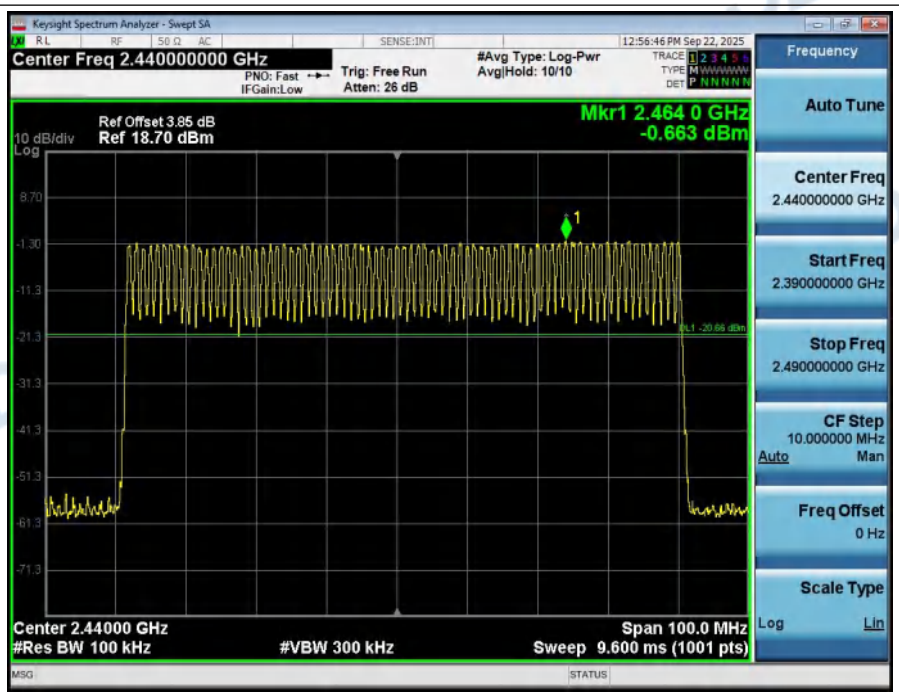


1_Reference_Level_NVNT_ANT1_1-DH5_2480_00

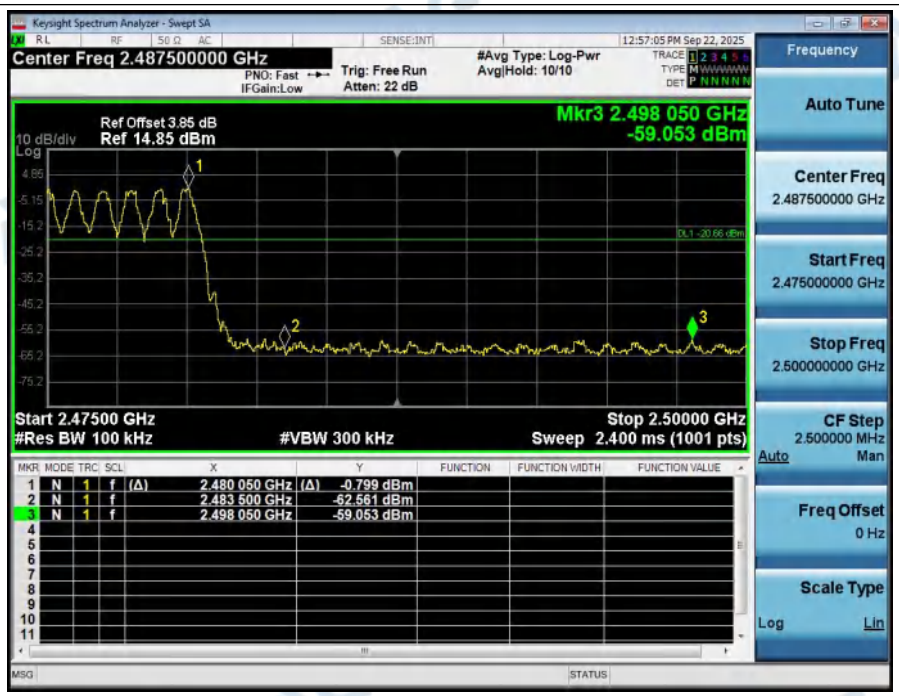
2_Bandedge_NVNT_ANT1_1-DH5_2480_00



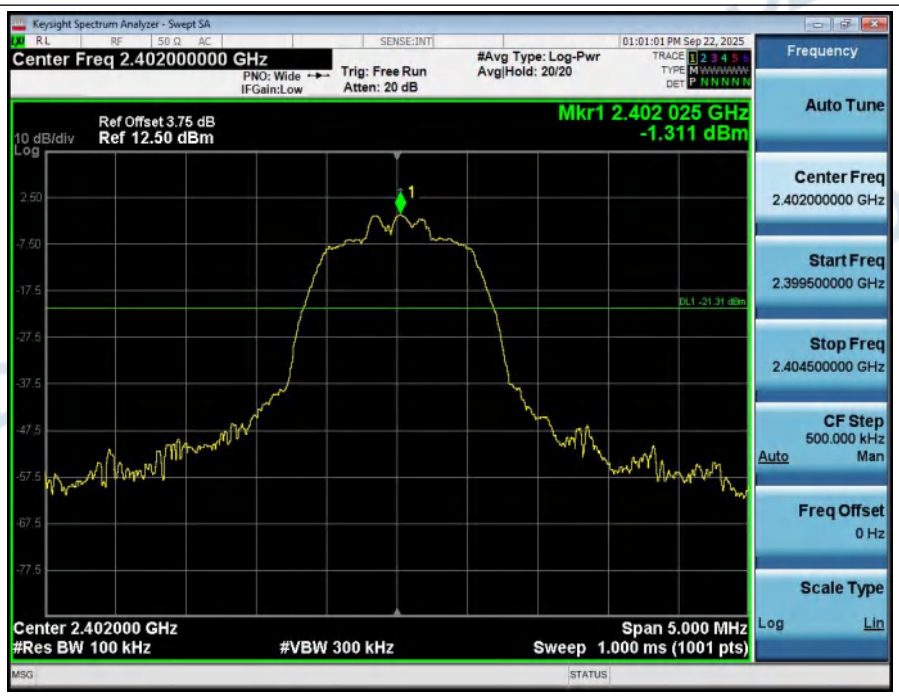
1_Reference_Level_Hopping_NVNT_ANT1_1-DH5_Hopping



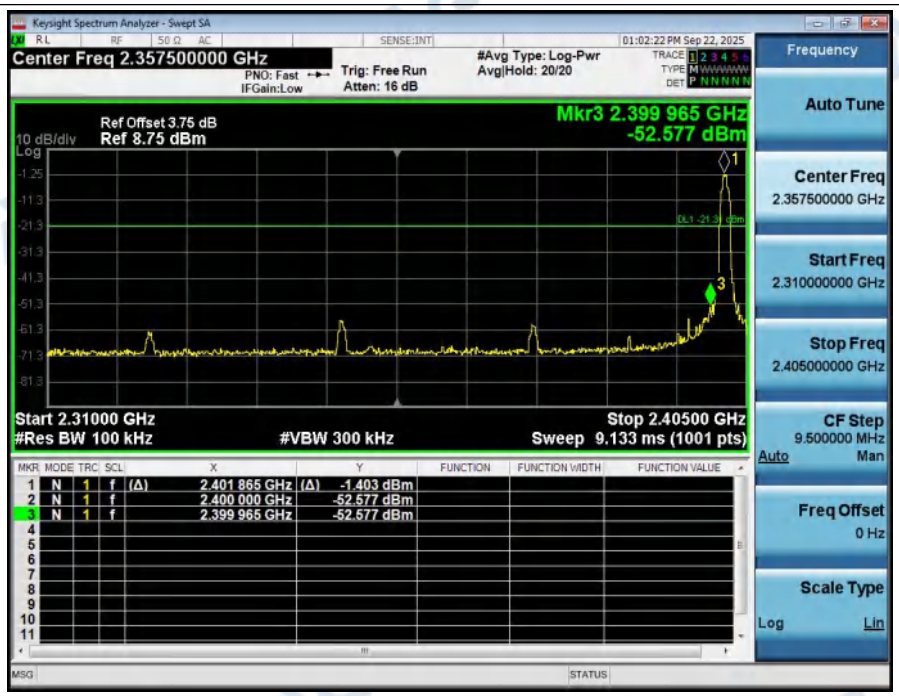
2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping



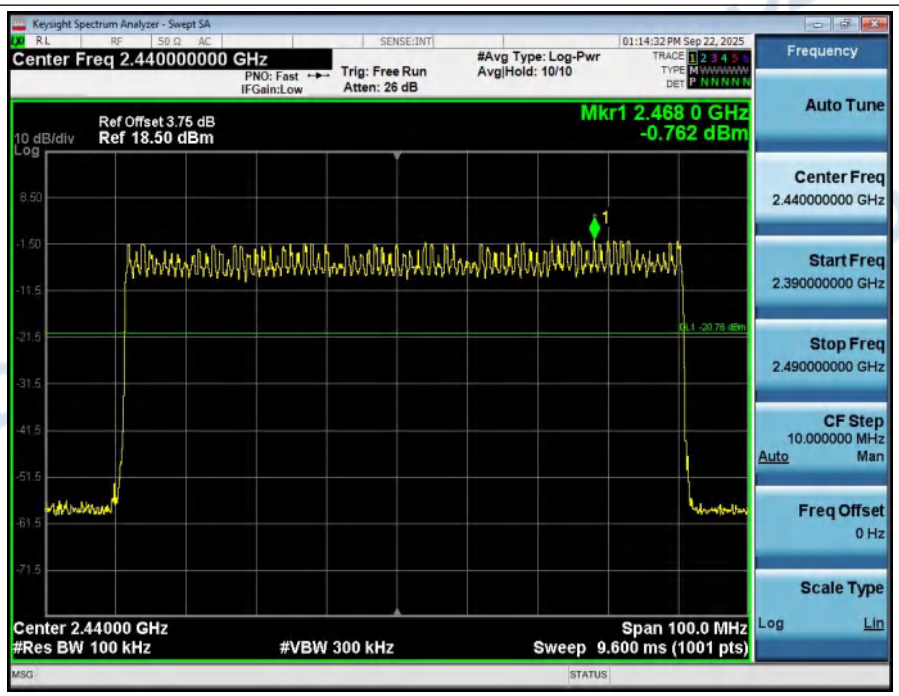
1_Reference_Level_NVNT_ANT1_2-DH5_2402_00



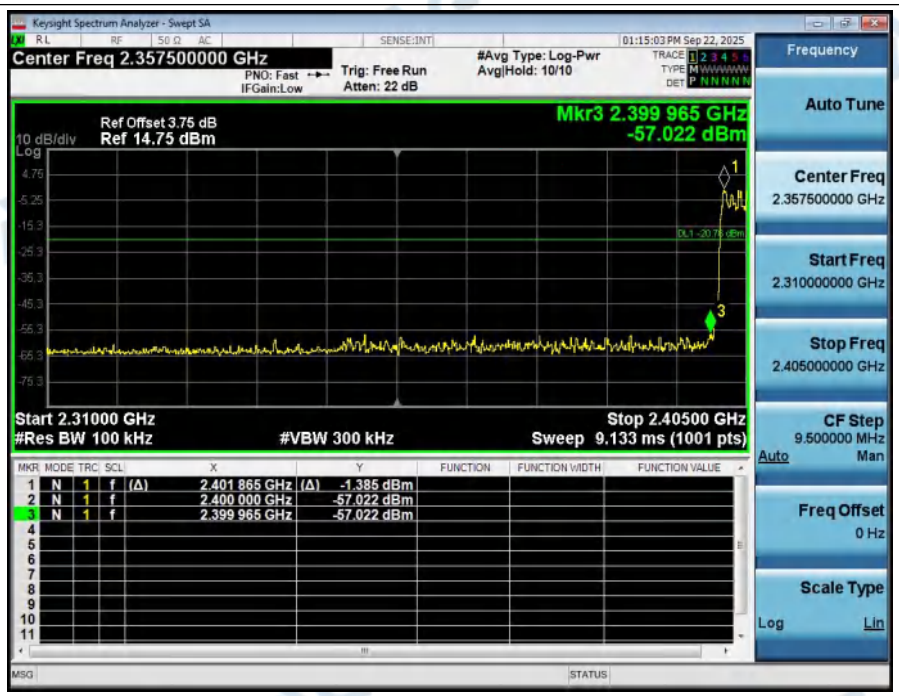
2_Bandedge_NVNT_ANT1_2-DH5_2402_00



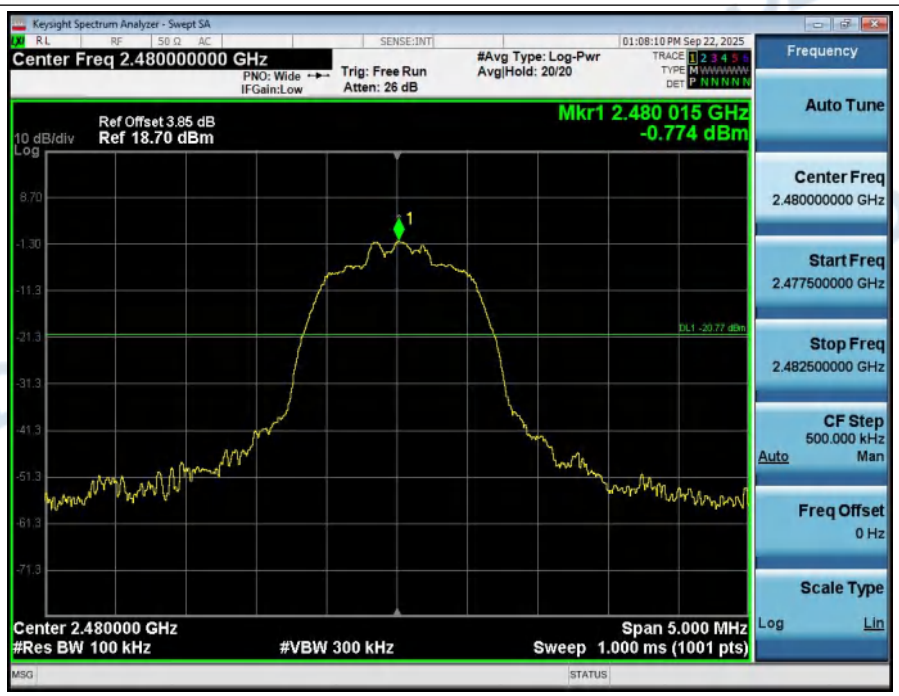
1_Reference_Level_Hopping_NVNT_ANT1_2-DH5_Hopping



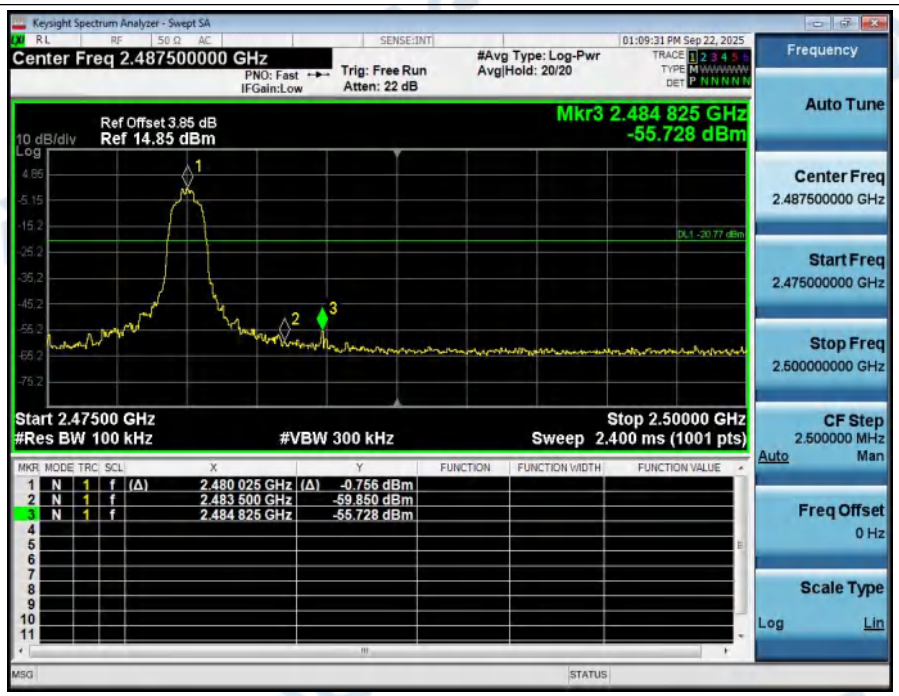
2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping



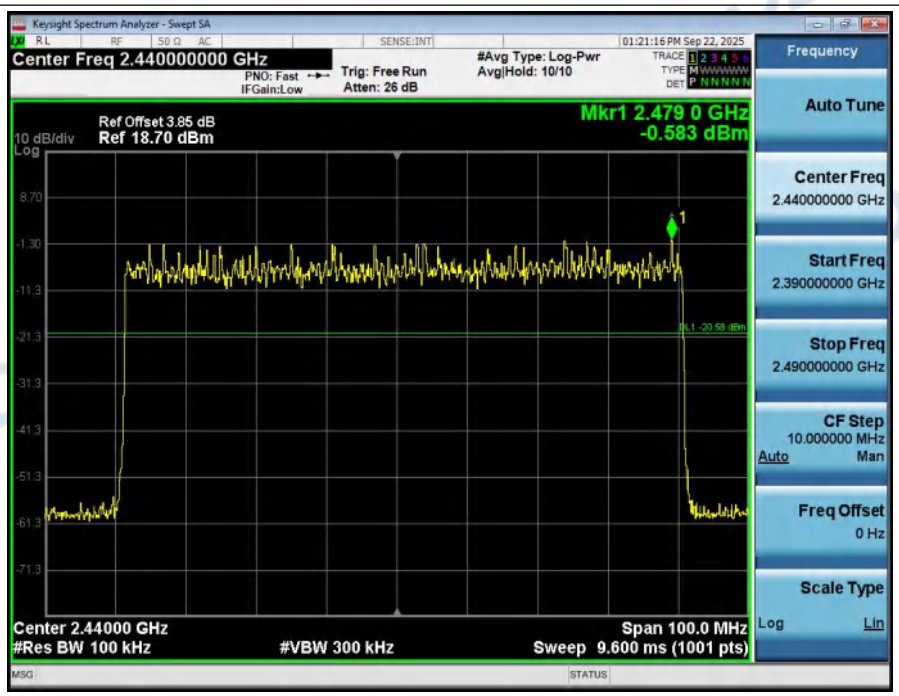
1_Reference_Level_NVNT_ANT1_2-DH5_2480_00



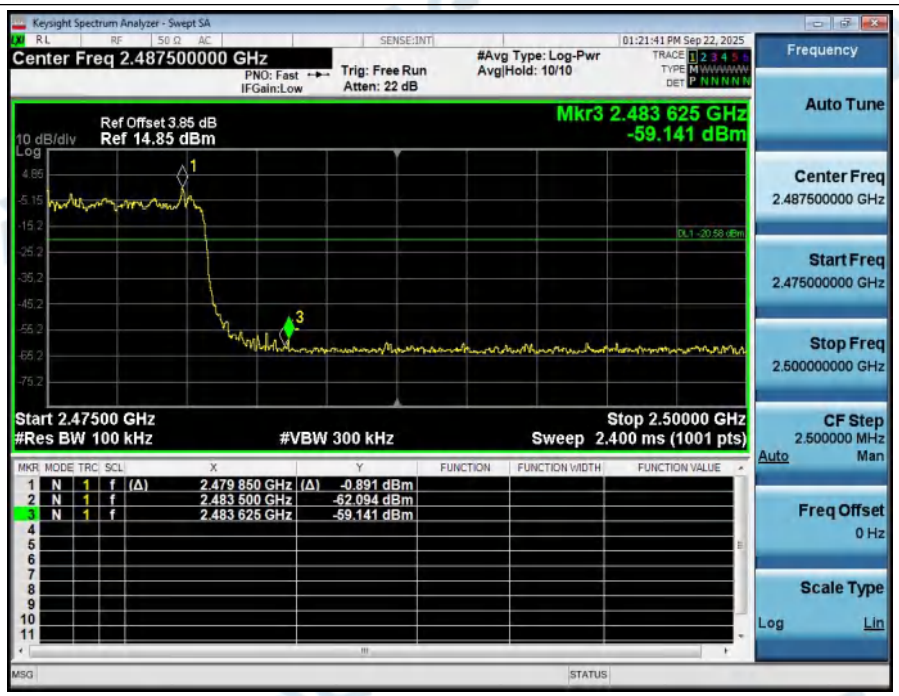
2_Bandedge_NVNT_ANT1_2-DH5_2480_00



1_Reference_Level_Hopping_NVNT_ANT1_2-DH5_Hopping

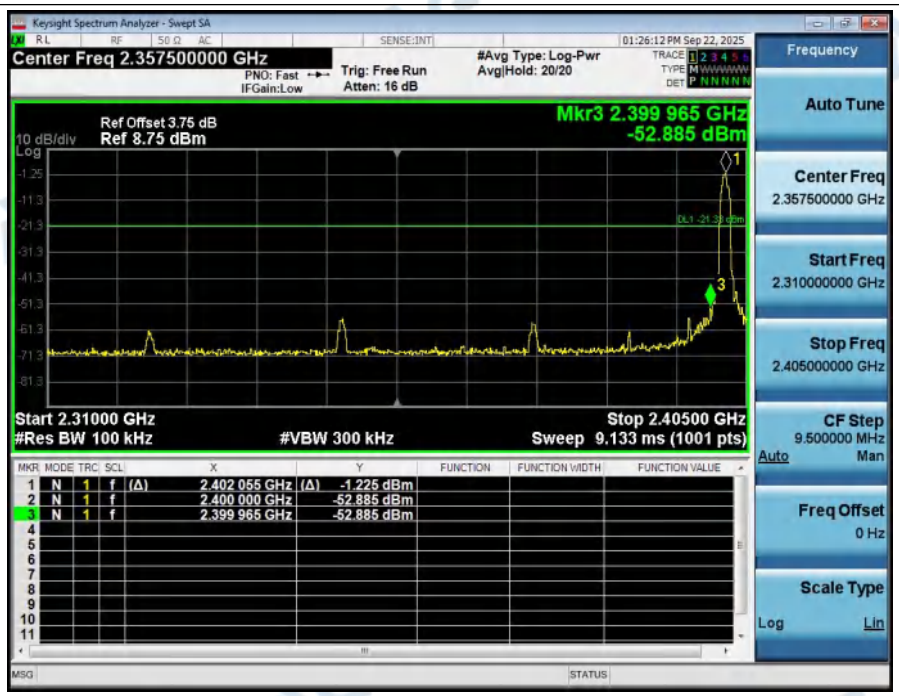


2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping

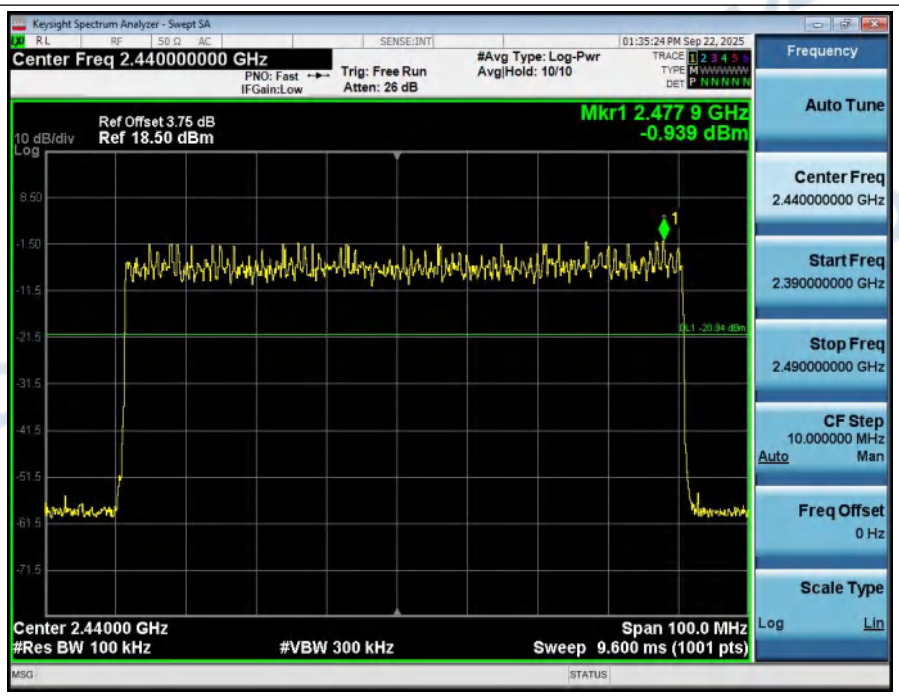


1_Reference_Level_NVNT_ANT1_3-DH5_2402_00

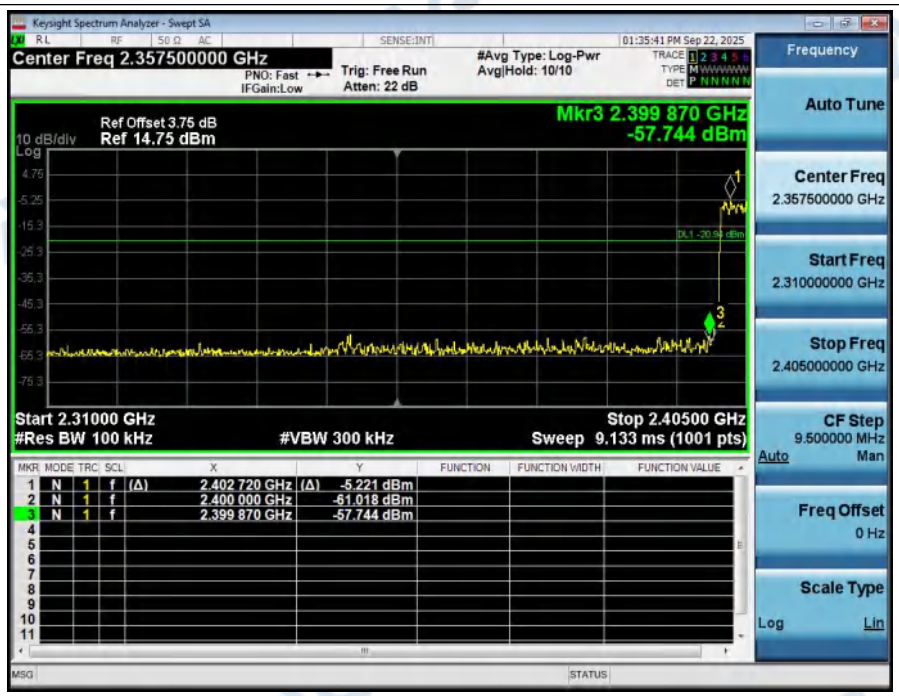
2_Bandedge_NVNT_ANT1_3-DH5_2402_00



1_Reference_Level_Hopping_NVNT_ANT1_3-DH5_Hopping

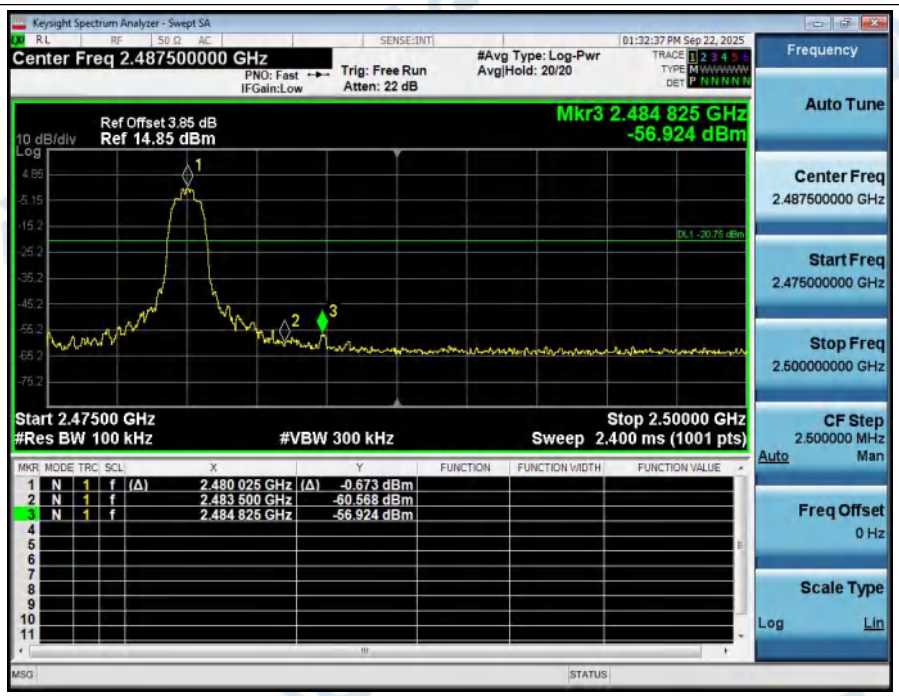


2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH5_Hopping

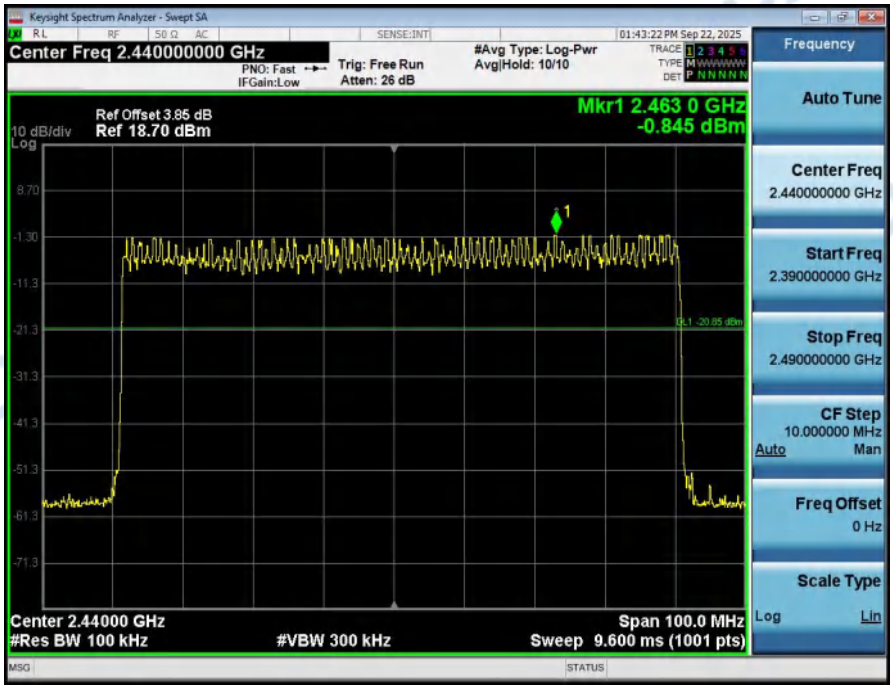


1_Reference_Level_NVNT_ANT1_3-DH5_2480_00

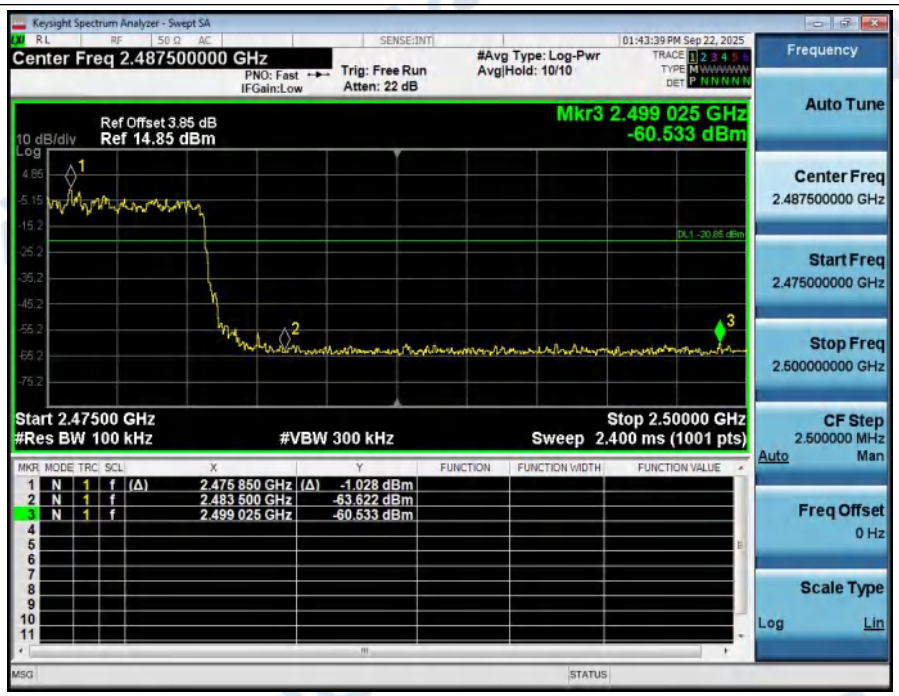
2_Bandedge_NVNT_ANT1_3-DH5_2480_00



1_Reference_Level_Hopping_NVNT_ANT1_3-DH5_Hopping



2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH5_Hopping



7. Carrier Frequencies Separation (Hopping)

Condition	Antenna	Modulation	Frequency(MHz)	Hopping NO.0 (MHz)	Hopping NO.1 (MHz)	Carrier Frequencies Separation(MHz)	Limit(MHz)	Result
NVNT	ANT1	1-DH5	2402.00	2401.852	2402.845	0.99	0.939	Pass
NVNT	ANT1	1-DH5	2441.00	2441.167	2442.160	0.99	0.945	Pass
NVNT	ANT1	1-DH5	2480.00	2479.182	2480.166	0.98	0.939	Pass
NVNT	ANT1	2-DH5	2402.00	2401.855	2402.845	0.99	0.845	Pass
NVNT	ANT1	2-DH5	2441.00	2441.158	2442.037	0.88	0.844	Pass
NVNT	ANT1	2-DH5	2480.00	2478.855	2479.833	0.98	0.844	Pass
NVNT	ANT1	3-DH5	2402.00	2401.843	2402.845	1.00	0.844	Pass
NVNT	ANT1	3-DH5	2441.00	2440.867	2442.178	1.31	0.842	Pass
NVNT	ANT1	3-DH5	2480.00	2478.855	2479.848	0.99	0.844	Pass

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH5_Hopping

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH5_Hopping

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH5_Hopping

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH5_Hopping

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH5_Hopping

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH5_Hopping

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH5_Hopping

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH5_Hopping

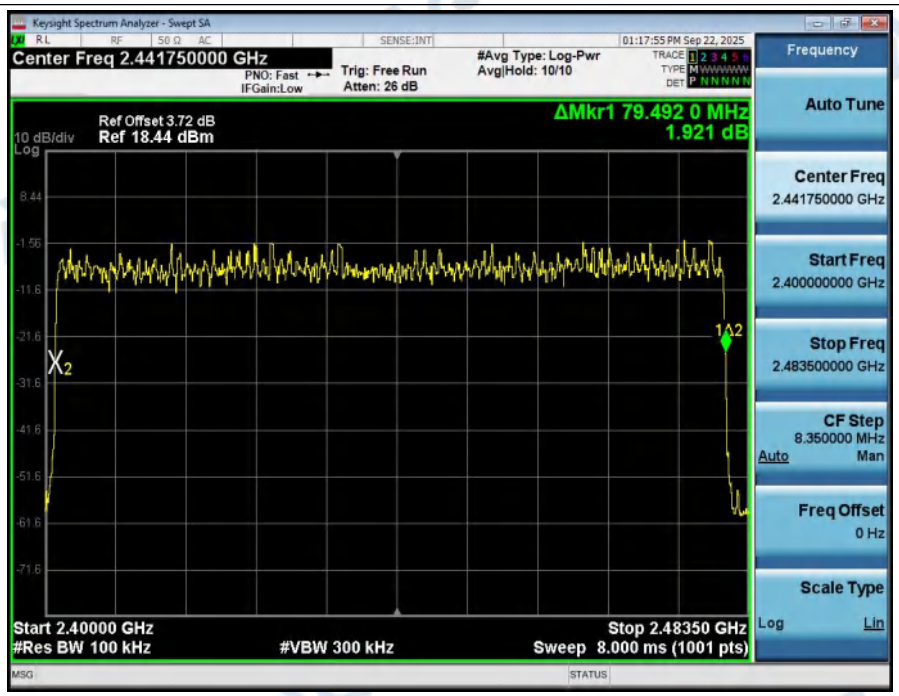
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH5_Hopping

8. Number of Hopping Channel (Hopping)

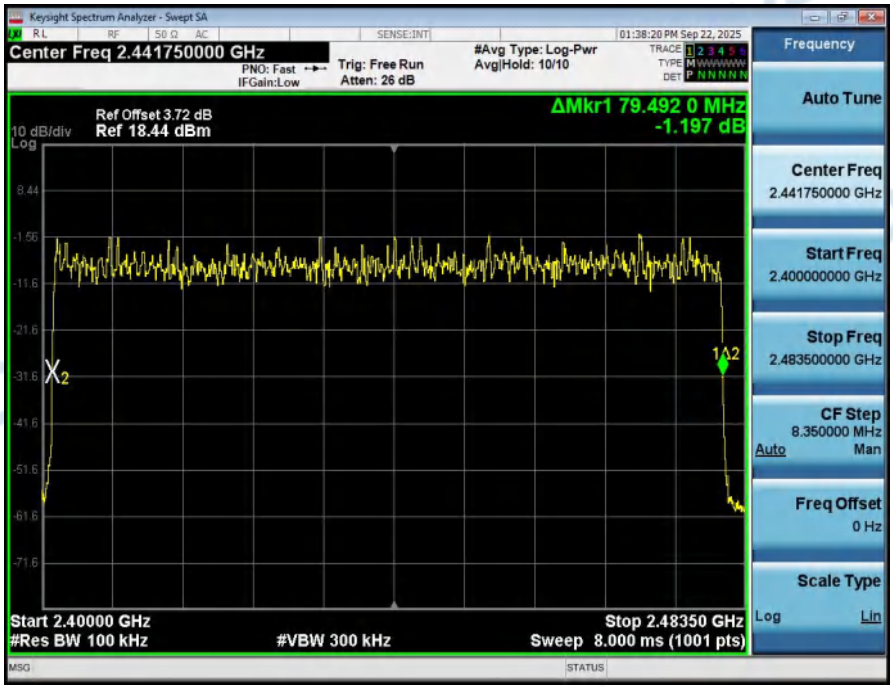
Condition	Antenna	Modulation	Hopping Num	Limit	Result
NVNT	ANT1	1-DH5	79	75	Pass
NVNT	ANT1	2-DH5	79	15	Pass
NVNT	ANT1	3-DH5	79	15	Pass

Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_1-DH5_Hopping

Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_2-DH5_Hopping



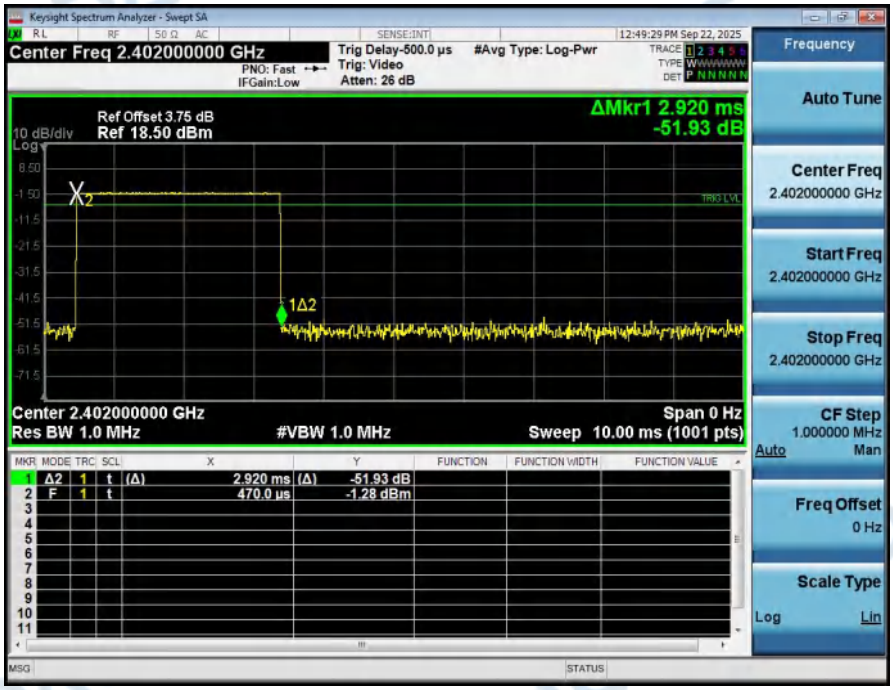
Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH5_Hopping



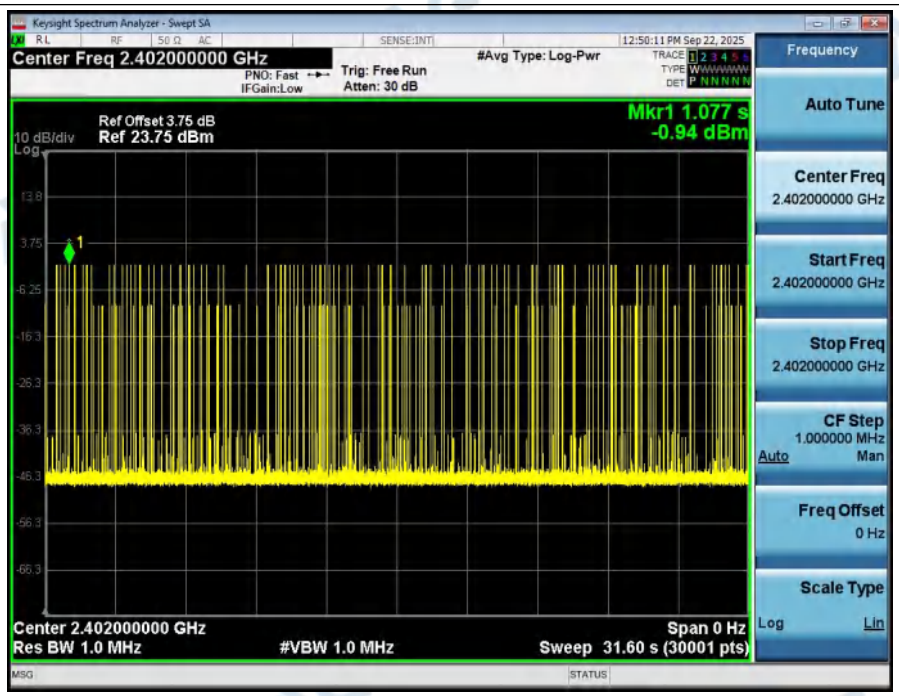
9. Dwell Time (Hopping)

Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH5	2.920	115.00	335.800	0.40	Pass
NVNT	ANT1	1-DH5	2.920	128.00	373.760	0.40	Pass
NVNT	ANT1	1-DH5	2.920	108.00	315.360	0.40	Pass
NVNT	ANT1	2-DH5	2.930	101.00	295.930	0.40	Pass
NVNT	ANT1	2-DH5	2.930	102.00	298.860	0.40	Pass
NVNT	ANT1	2-DH5	2.930	104.00	304.720	0.40	Pass
NVNT	ANT1	3-DH5	2.930	88.00	257.840	0.40	Pass
NVNT	ANT1	3-DH5	2.930	100.00	293.000	0.40	Pass
NVNT	ANT1	3-DH5	2.930	112.00	328.160	0.40	Pass

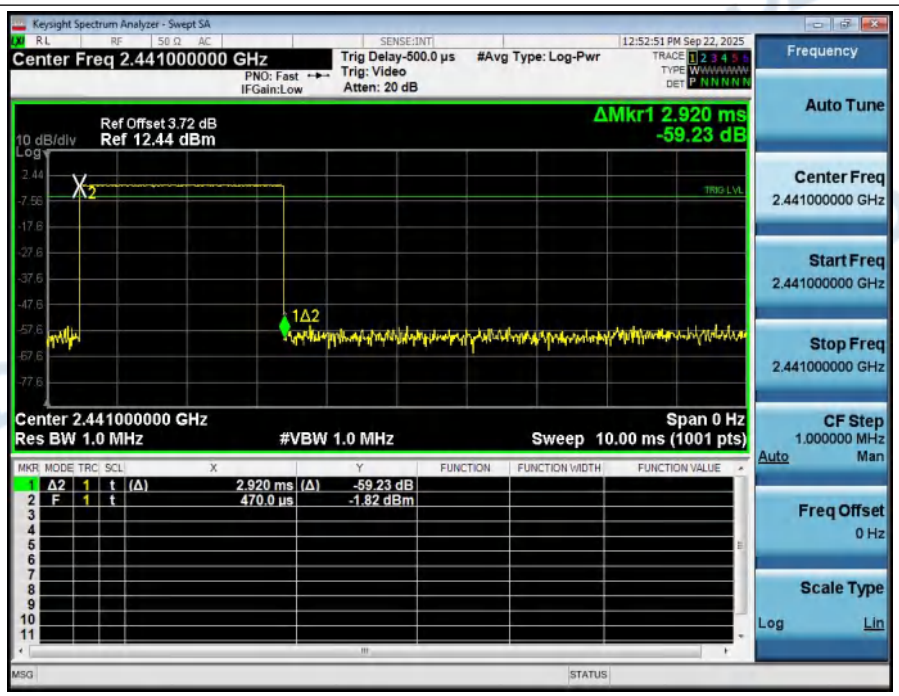
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2402_00_One_Burst_Time



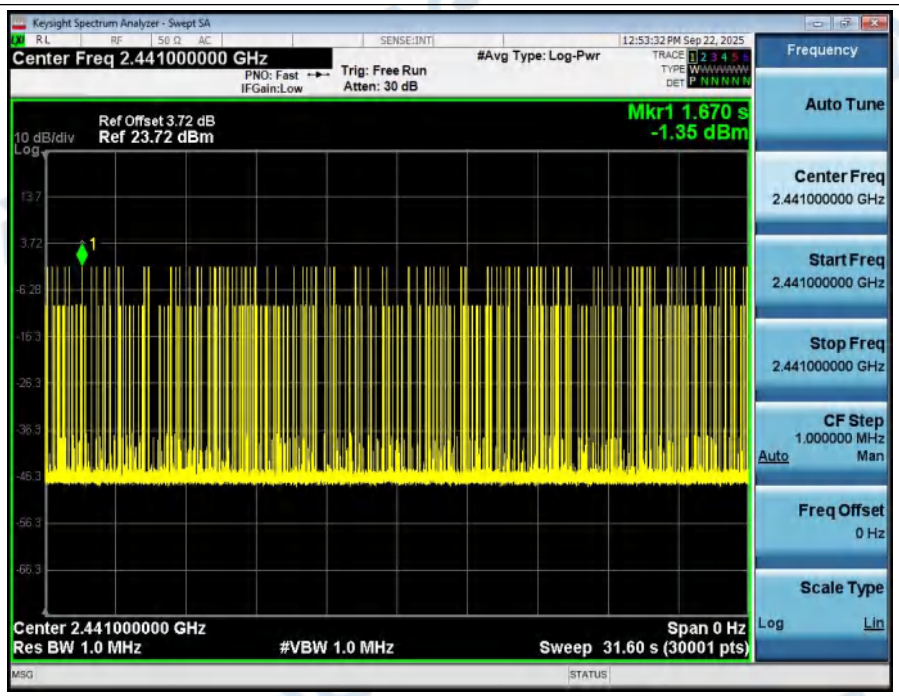
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2402_00_Accumulated



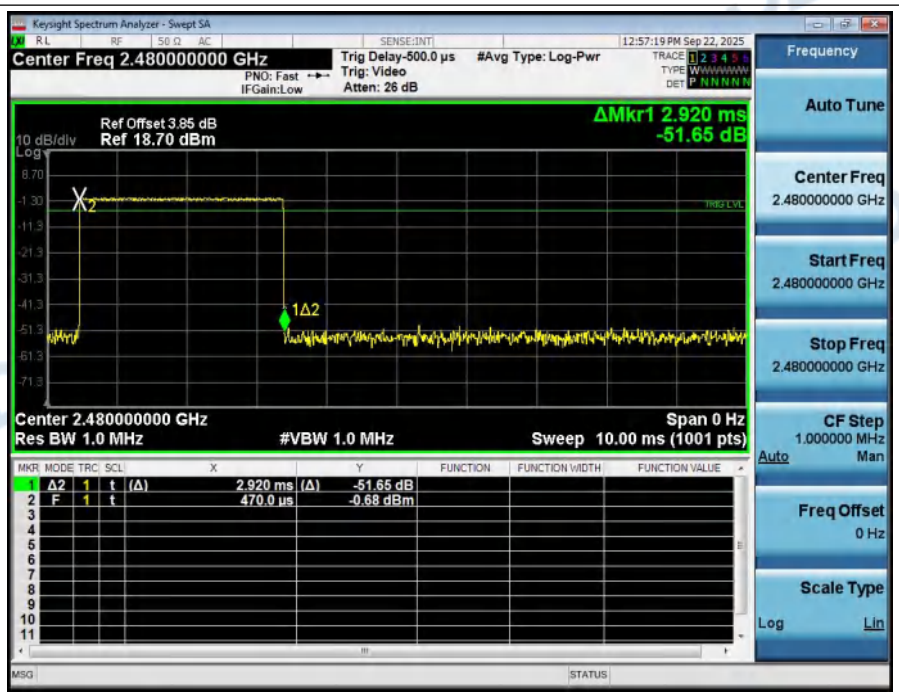
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2441_00_One_Burst_Time



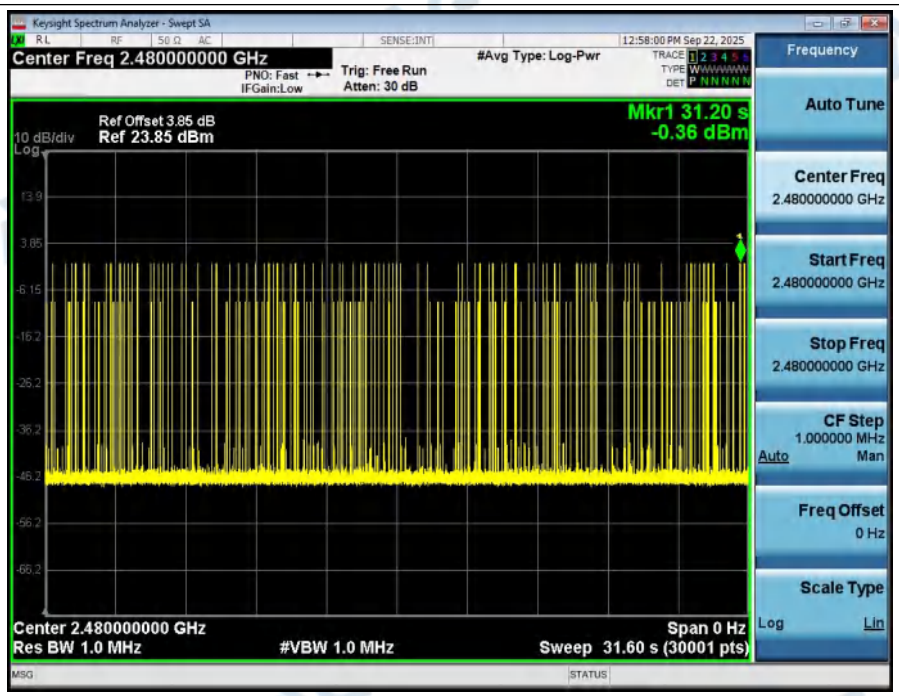
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2441_00_Accumulated



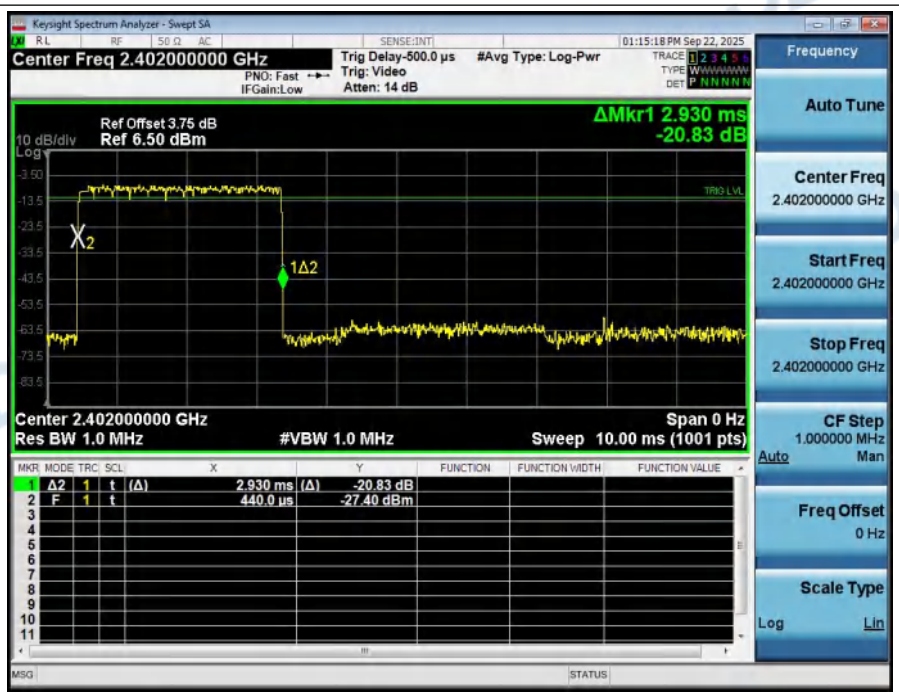
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2480_00_One_Burst_Time



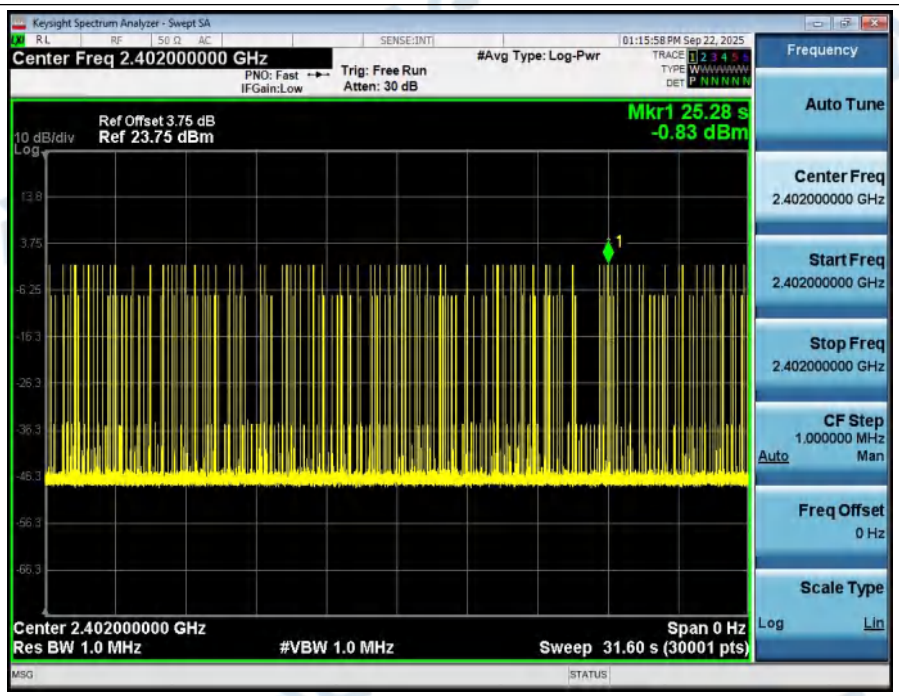
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2480_00_Accumulated



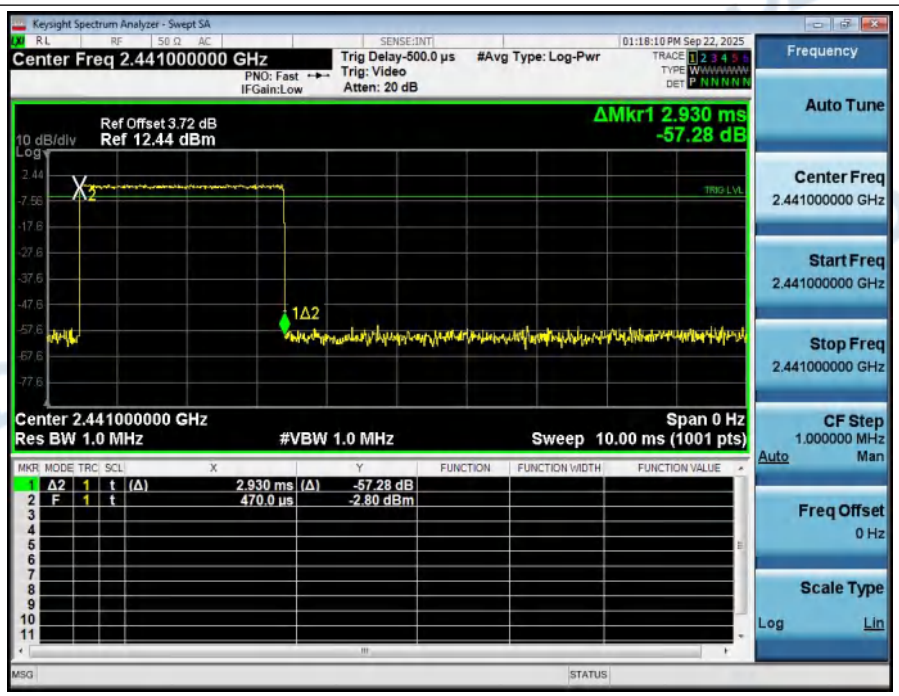
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2402_00_One_Burst_Time



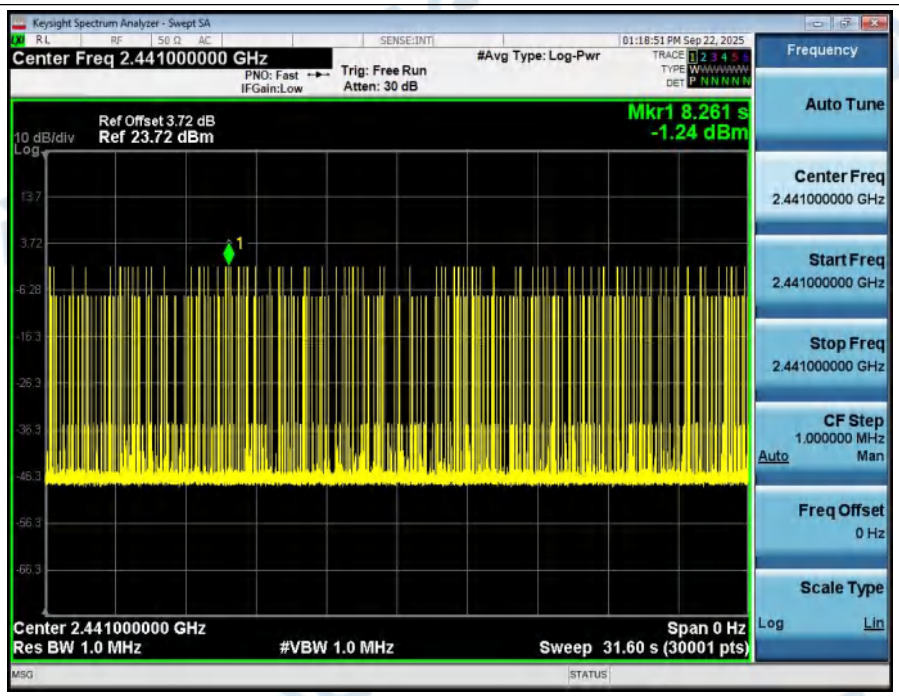
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2402_00_Accumulated



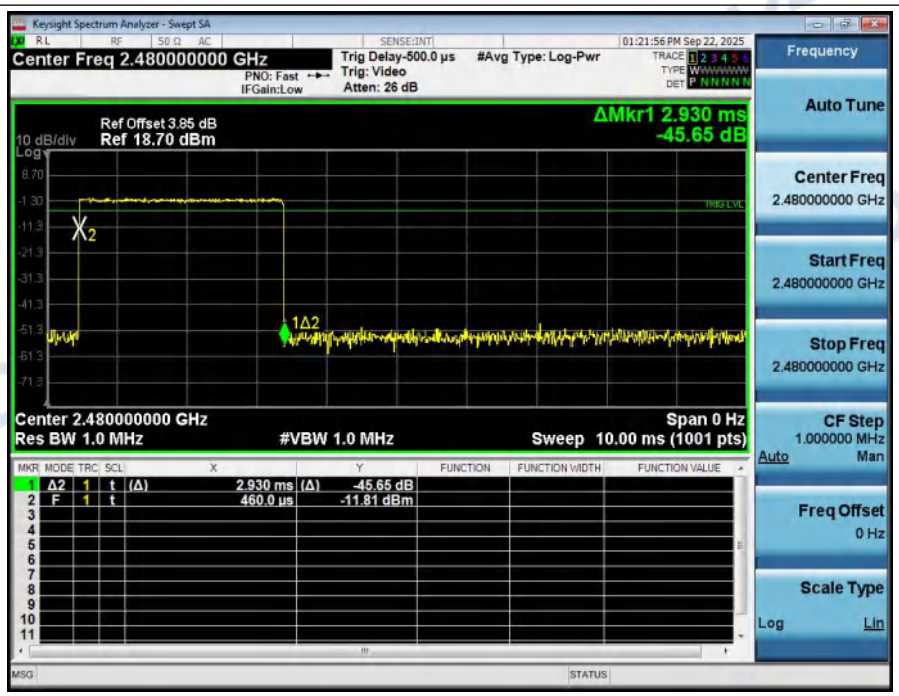
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2441_00_One_Burst_Time



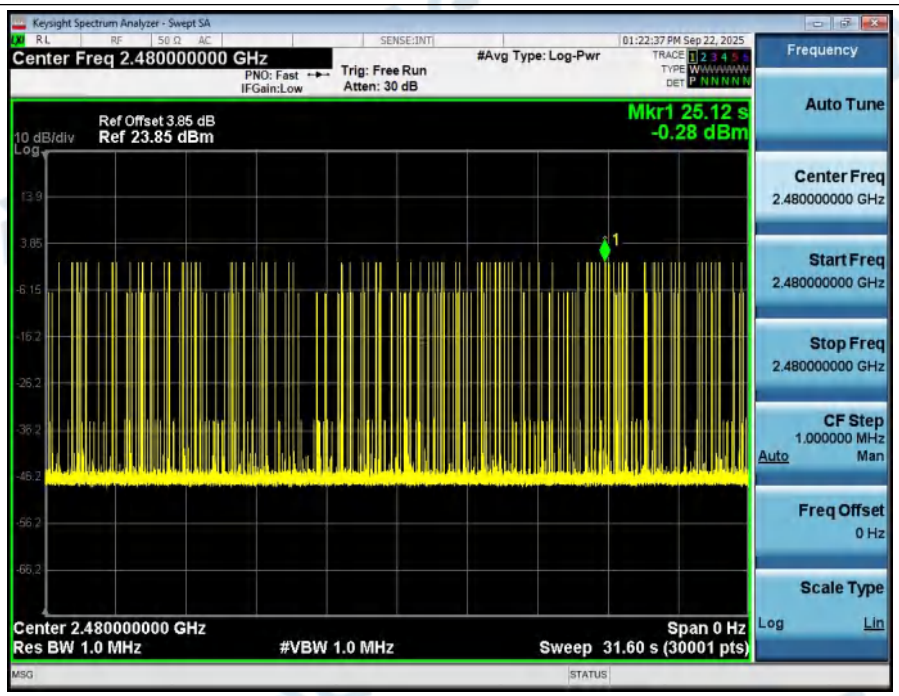
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2441_00_Accumulated



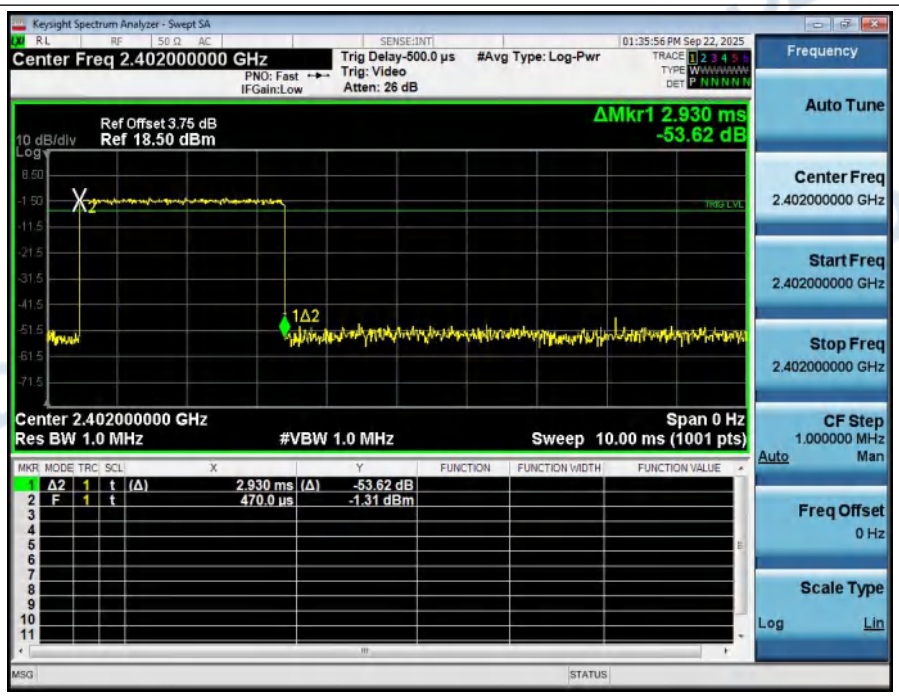
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2480_00_One_Burst_Time



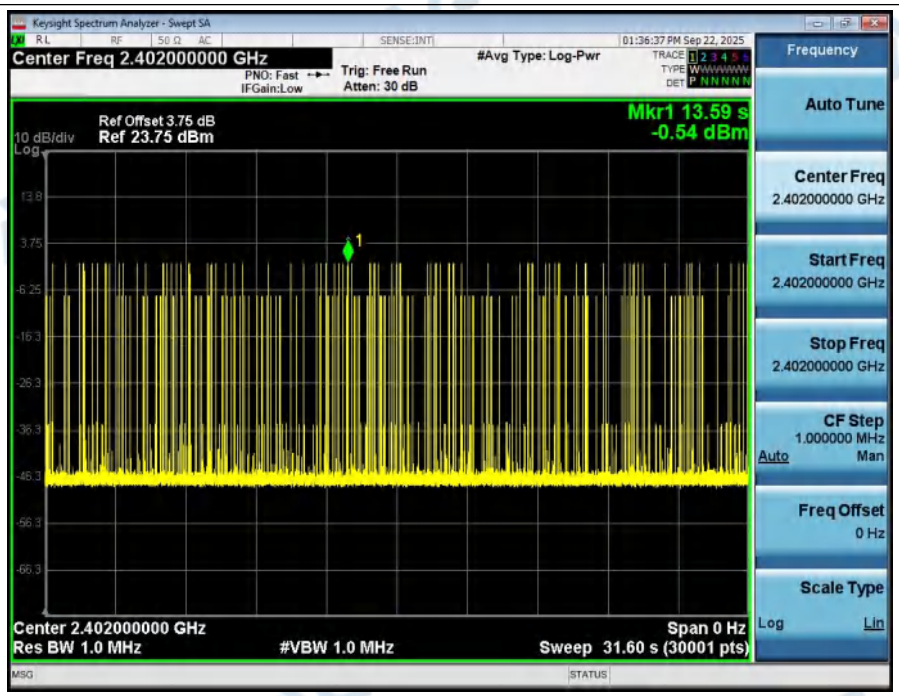
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2480_00_Accumulated



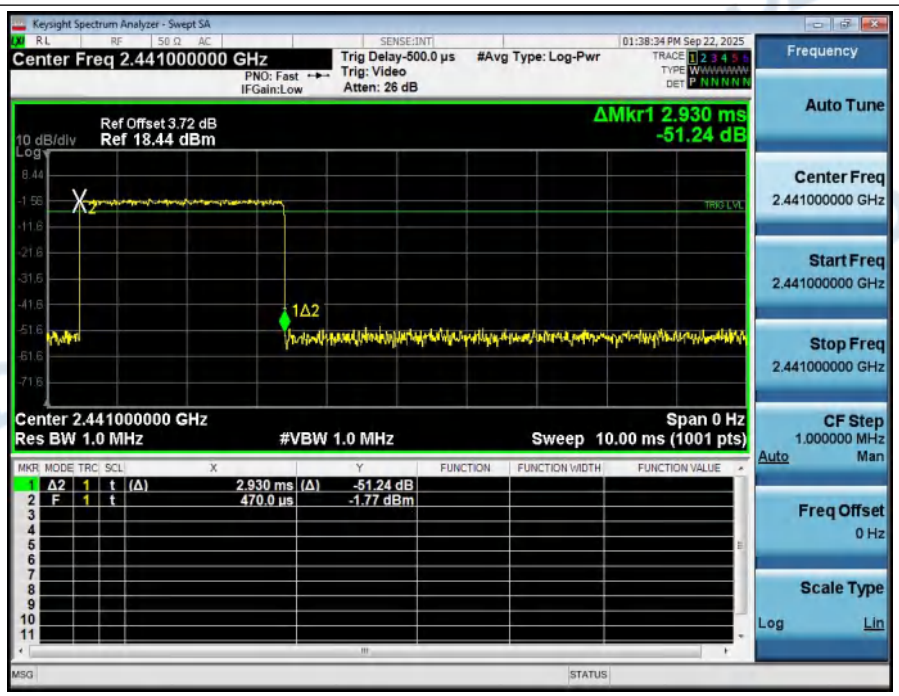
Dwell_Time_(Hopping)_NVNT_ANT1_3-DH5_2402_00_One_Burst_Time



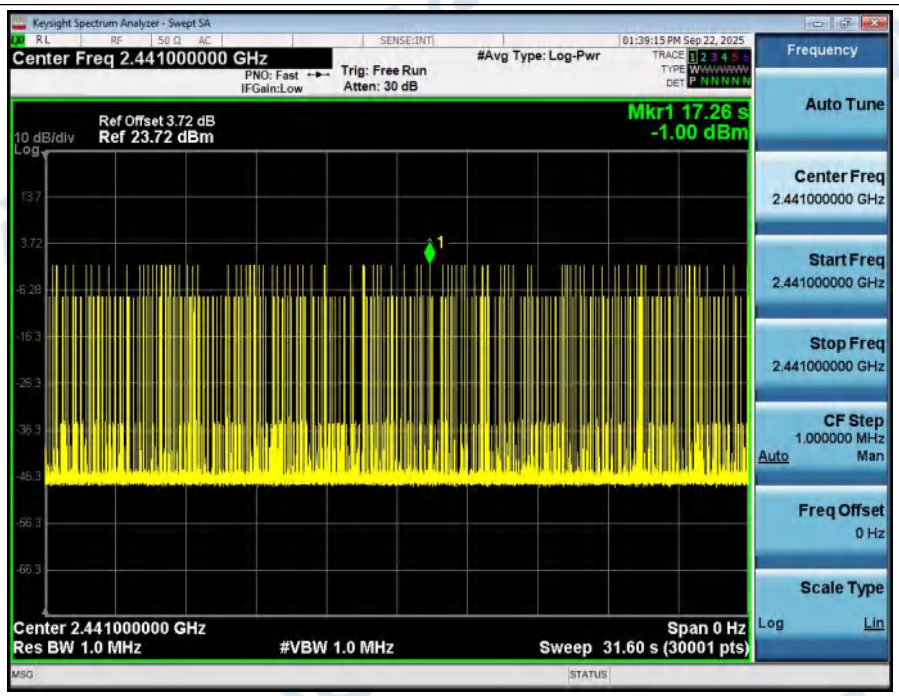
Dwell_Time_(Hopping)_NVNT_ANT1_3-DH5_2402_00_Accumulated



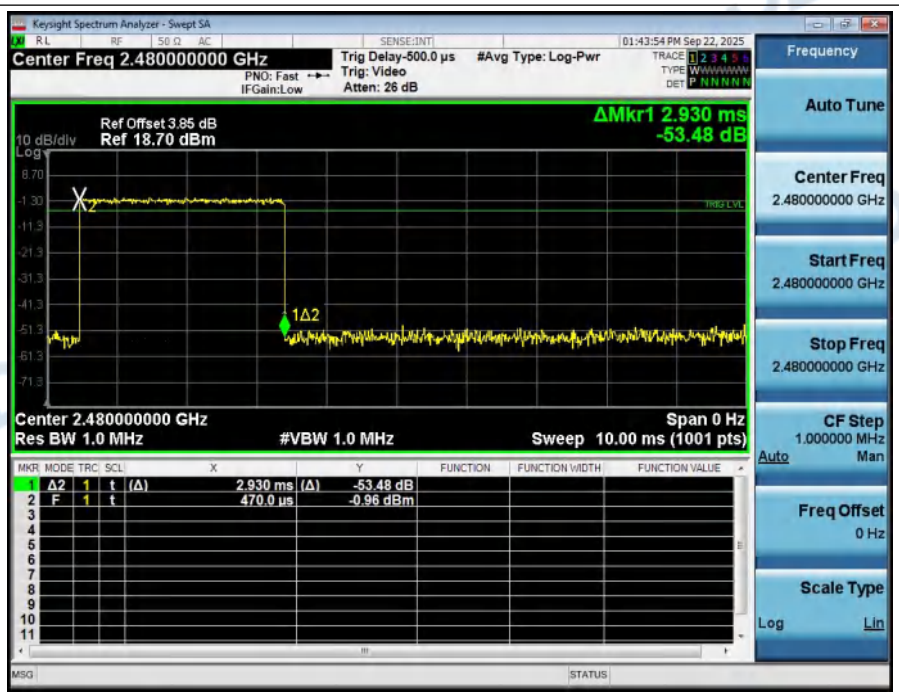
Dwell_Time_(Hopping)_NVNT_ANT1_3-DH5_2441_00_One_Burst_Time



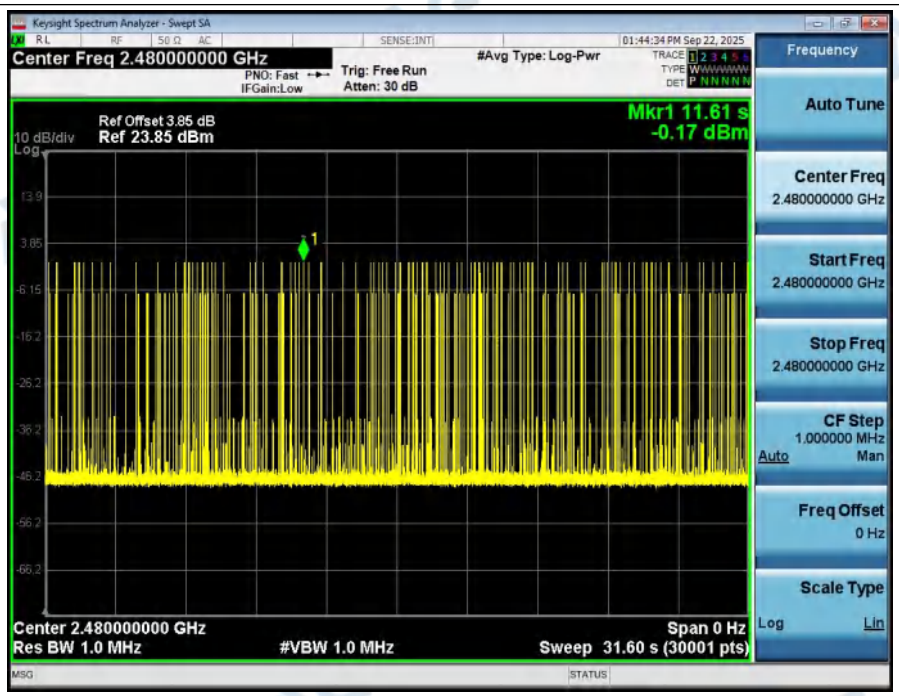
Dwell_Time_(Hopping)_NVNT_ANT1_3-DH5_2441_00_Accumulated



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH5_2480_00_One_Burst_Time



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH5_2480_00_Accumulated



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