



FCC TEST REPORT

FCC ID: 2BNMJ-YD720

On Behalf of

Shenzhen Yudian Technology Co.,Ltd

EYE massager

Model No.: YD720

Prepared for : Shenzhen Yudian Technology Co.,Ltd
Address : 208, Building 4, Gaoqiao First Industrial Zone, Pingxi Community,
Pingdi Street, Longgang District, Shenzhen

Prepared By : Shenzhen PSI Testing Co., Ltd.
Address : 1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road,
Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Report Number : psi2501006-C01-R02
Date of Receipt : January 2, 2025
Date of Test : January 2 - 15, 2025
Date of Report : January 15, 2025
Version Number : V0

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TEST REPORT DECLARATION

Applicant : Shenzhen Yudian Technology Co.,Ltd
Address : 208, Building 4, Gaoqiao First Industrial Zone, Pingxi Community, Pingdi Street,
Longgang District, Shenzhen
Manufacturer : Shenzhen Yudian Technology Co.,Ltd
Address : 208, Building 4, Gaoqiao First Industrial Zone, Pingxi Community, Pingdi Street,
Longgang District, Shenzhen
EUT Description : EYE massager
(A) Model No. : YD720
(B) Trademark : N/A

Measurement Standard Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247,
ANSI C63.10-2013**

Test Result: PASS

The device described above is tested by Shenzhen PSI Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen PSI Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the FCC Part15 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen PSI Testing Co., Ltd.

Tested by (name + signature).....: Jensen Wang
Test Engineer

Jensen Wang

Approved by (name + signature).....: Simple Guan
Project Manager

Simple Guan

Date of issue.....: January 15, 2025

Revision History

Revision	Issue Date	Revisions	Revised By
V0	January 15, 2025	Initial released Issue	Jensen Wang



1. Summary Of Standards And Results

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Test Item	Standards Paragraph	Result
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1)	P
Bandwidth	FCC Part 15:15.247(a)(1)	P
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1)	P
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1)	P
Dwell Time	FCC Part 15: 15.247(a)(1)	P
Radiated Spurious Emission	FCC Part 15: 15.209 FCC Part 15: 15.205	P
Out-of-band Emissions	FCC Part 15: 15.247(d)	P
Radiated Band Edge Emission	FCC Part 15: 15.247(d)	P
Power Line Conducted Emissions	FCC Part 15: 15.207	P
Antenna requirement	FCC Part 15: 15.203	P
Note: 1. P is an abbreviation for Pass. 2. F is an abbreviation for Fail. 3. N/A is an abbreviation for Not Applicable. 4. Conclusion determination rules of this report: Unless there are clear provisions on measurement uncertainty in the standard or customer requirements, decision by actual test data without considering measurement uncertainty. 5. Measurement method usage KDB 558074 D01 15.247 Meas Guidance v05r02.		

2. General Information

2.1. Description of Device (EUT)

Description/PMN	: EYE massager
Model List	: YD720
Diff	: N/A
Test Voltage	: DC 3.7V from battery, DC 5V from USB
Radio Technology	: Bluetooth V5.0 EDR
Operation frequency	: 2402MHz-2480MHz
Modulation	: GFSK, $\pi/4$ -DQPSK, 8 DPSK
Channel No.	: 79 Channels
Channel Separation	: 1MHz
Antenna Type	: Internal antenna, Maximum Gain is -0.58 dBi.
Software version	: V1.0
Hardware version	: V1.0
Intend use environment	: Residential, commercial and light industrial environment
Note	Antenna information is provided by applicant. Testing lab is not responsible for the accuracy of the information.

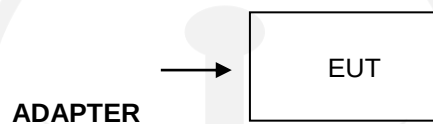
2.2. Accessories of Device (EUT)

Accessories	: USB Cable
Manufacturer	: Shenzhen Yudian Technology Co.,Ltd
Model	: N/A
Input	: N/A
Output	: N/A

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number
1	Adapter	Baseus	CCXFK65CC	N/A
2	N/A	N/A	N/A	N/A

2.4. Block Diagram of connection between EUT and simulators



2.5. Test Mode Description

The test software used to control EUT work in Continuous TX mode, and select test channel, wireless mode

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
GFSK / Pi/4-DQPSK / 8 DPSK Carrier Tx Mode	CH0	2402
	CH39	2441
	CH78	2480
GFSK / Pi/4-DQPSK / 8 DPSK hopping on Tx Mode	CH0 to CH78	2402 to 2480
GFSK / Pi/4-DQPSK / 8 DPSK hopping off Tx Mode	CH0	2402
	CH39	2441
	CH78	2480

2.6. Test Conditions

Items	Required	Actual
Temperature range:	15-35°C	24°C
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	101kPa

2.7. Test Facility

Shenzhen PSI Testing Co., Ltd.

1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

September 13, 2023 File on Federal Communication Commission

Registration Number: 916281

2.8. Measurement Uncertainty

(95% confidence levels, k=2)

Item	Uncertainty
Uncertainty for Power line Conducted Emissions Test	2.17dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	3.5dB
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	2.74dB(Polarize: V)
	2.76dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 18GHz)	4.29dB(Polarize: V)
	4.82dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (18GHz to 40GHz)	4.31 dB(Polarize: V)
	4.30 dB(Polarize: H)
Uncertainty for radio frequency	48.24KHz
Uncertainty for conducted RF Power	0.41dB
Uncertainty for Power Spectral Density	0.39 dB
Occupied Bandwidth	968Hz
Conducted Spurious Emission	1.26dB

2.9. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	9*6*6 anechoic chamber	SKET	9*6*6	N/A	/	2022.12.20	3 Year
2.	Test Receiver	Rohde&Schwarz	ESCI 7	101032/003	4.42 SP3	2024.12.18	1 Year
3.	L.I.S.N.#1	Rohde&Schwarz	ENV216	102282	/	2024.12.18	1 Year
4.	L.I.S.N.#2	RFT	NNB111	13835240	/	2024.12.18	1 Year
5.	Loop Antenna	Schwarz beck	FMZB 1519B	00128	/	2024.12.25	2 Year
6.	Bilog Antenna	Schwarz beck	VULB 9168	01448	/	2024.12.25	2 Year
7.	Spectrum Analyzer	Rohde&Schwarz	FSV-40N	101648	3.70	2024.12.18	1 Year
8.	Horn Antenna	Schwarz beck	BBHA 9120 D	02706	/	2024.12.25	2 Year
9.	Amplifier	SKET	LAPA_01G18 G-45dB	SK20220329 01	/	2024.12.18	1 Year
10.	Horn Antenna	Schwarz beck	BBHA 9170	00946	/	2024.12.25	2 Year
11.	Amplifier	SKET	LNPA_0118G -45	SK20200108 01	/	2024.12.18	1 Year
12	RF Power Probe	Rohde&Schwarz	NRP-Z11	1138.3004.02 -1111533-Fz	/	2024.12.18	1 Year
13	RF Sensor Unit	Tachoy	TR1029-2	20220428P0 08	/	2024.12.18	1 Year
14	Temp. & Humid Chamber	Auchno	9606	/	/	2024.12.18	1 Year
15	Regulated DC Power Supply	Xinouhua	ADC120V10 A	2022112516 38		2024.12.18	1 Year
16	Spectrum Analyzer	Agilent	N9020A	MY51281067	A.14.03	2024.12.18	1 Year

For Test Software Information

Item	Software Name	Manufacturer	Version
RE	EZ_EMC	Farad	PSI-3A1
CE	EZ_EMC	Farad	PSI-3A1
RF	RTS	TACHOY	V1.0.0

3. Maximum Peak Output Power

3.1. Limit

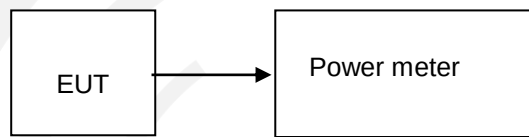
Please refer FCC part 15.247 & RSS-247.

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, the e.i.r.p shall not exceed 4W

3.2. Test Procedure

The transmitter output is connected to the RF Power meter. The Power meter is set to the peak power detection.

3.3. Test Setup



3.4. Test Result

Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH1	2402.00	2.67	1.85	125	Pass
NVNT	ANT1	1-DH1	2441.00	2.87	1.93	125	Pass
NVNT	ANT1	1-DH1	2480.00	3.17	2.08	125	Pass
NVNT	ANT1	2-DH1	2402.00	2.68	1.85	125	Pass
NVNT	ANT1	2-DH1	2441.00	2.87	1.94	125	Pass
NVNT	ANT1	2-DH1	2480.00	3.16	2.07	125	Pass
NVNT	ANT1	3-DH1	2402.00	3.06	2.02	125	Pass
NVNT	ANT1	3-DH1	2441.00	3.30	2.14	125	Pass
NVNT	ANT1	3-DH1	2480.00	3.60	2.29	125	Pass

4. Bandwidth

4.1. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in RSS-GEN, FCC Section 15.247(a)(1), 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.

4.2. Test Procedure

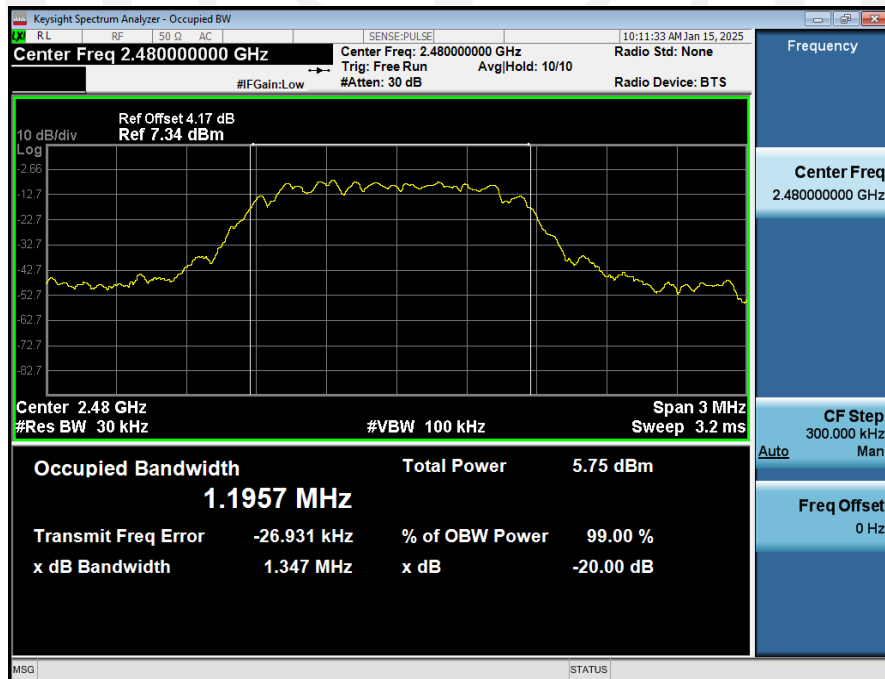
The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.3. Test Result

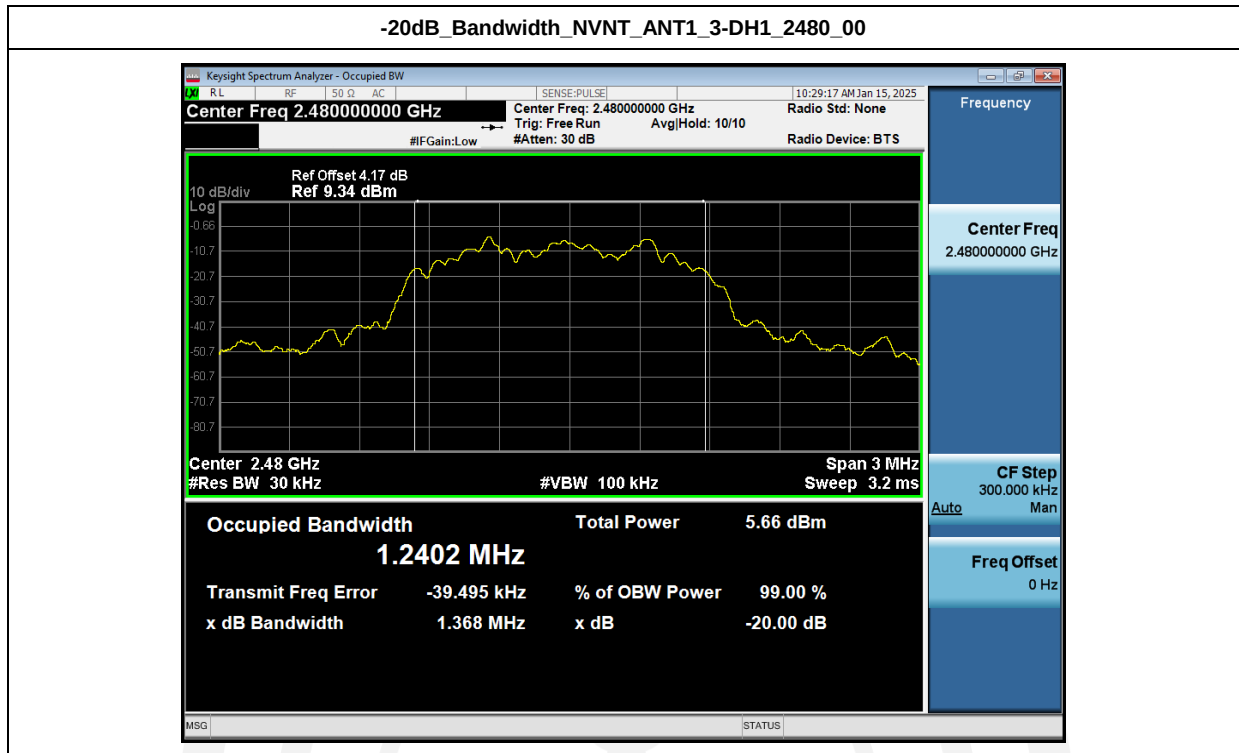
Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH1	2402.00	1.038	Yes
NVNT	ANT1	1-DH1	2441.00	1.037	Yes
NVNT	ANT1	1-DH1	2480.00	1.039	Yes
NVNT	ANT1	2-DH1	2402.00	1.347	Yes
NVNT	ANT1	2-DH1	2441.00	1.348	Yes
NVNT	ANT1	2-DH1	2480.00	1.347	Yes
NVNT	ANT1	3-DH1	2402.00	1.367	Yes
NVNT	ANT1	3-DH1	2441.00	1.367	Yes
NVNT	ANT1	3-DH1	2480.00	1.368	Yes

-20dB_Bandwidth_NVNT_ANT1_1-DH1_2402_00**-20dB_Bandwidth_NVNT_ANT1_1-DH1_2441_00**

-20dB_Bandwidth_NVNT_ANT1_1-DH1_2480_00**-20dB_Bandwidth_NVNT_ANT1_2-DH1_2402_00**

-20dB_Bandwidth_NVNT_ANT1_2-DH1_2441_00**-20dB_Bandwidth_NVNT_ANT1_2-DH1_2480_00**

-20dB_Bandwidth_NVNT_ANT1_3-DH1_2402_00**-20dB_Bandwidth_NVNT_ANT1_3-DH1_2441_00**



Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	1-DH1	2402.00	0.916
NVNT	ANT1	1-DH1	2441.00	0.915
NVNT	ANT1	1-DH1	2480.00	0.917
NVNT	ANT1	2-DH1	2402.00	1.194
NVNT	ANT1	2-DH1	2441.00	1.195
NVNT	ANT1	2-DH1	2480.00	1.195
NVNT	ANT1	3-DH1	2402.00	1.237
NVNT	ANT1	3-DH1	2441.00	1.238
NVNT	ANT1	3-DH1	2480.00	1.240

99%_Occupied_Bandwidth_NVNT_ANT1_1-DH1_2402_00



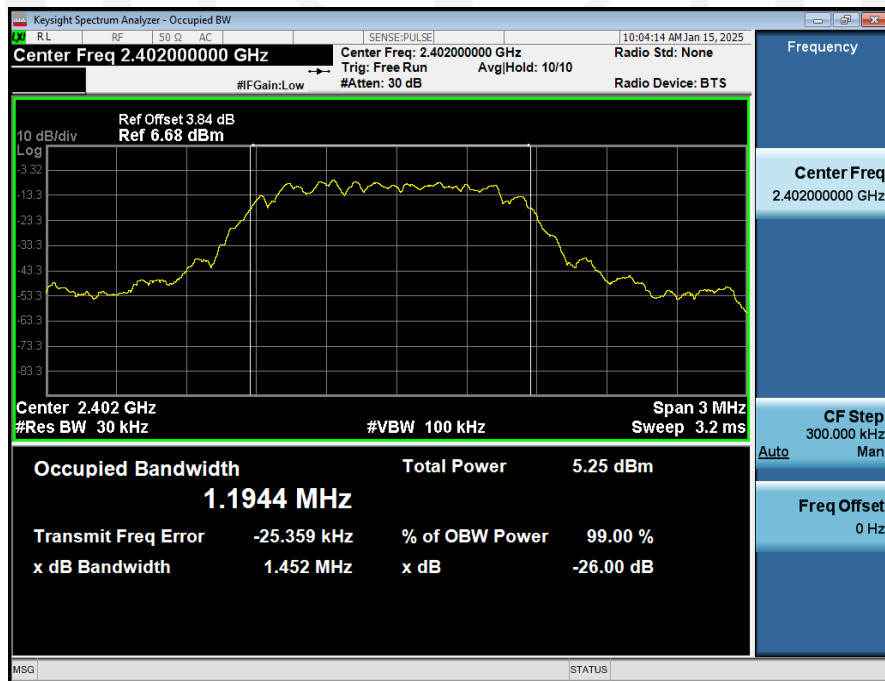
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH1_2441_00



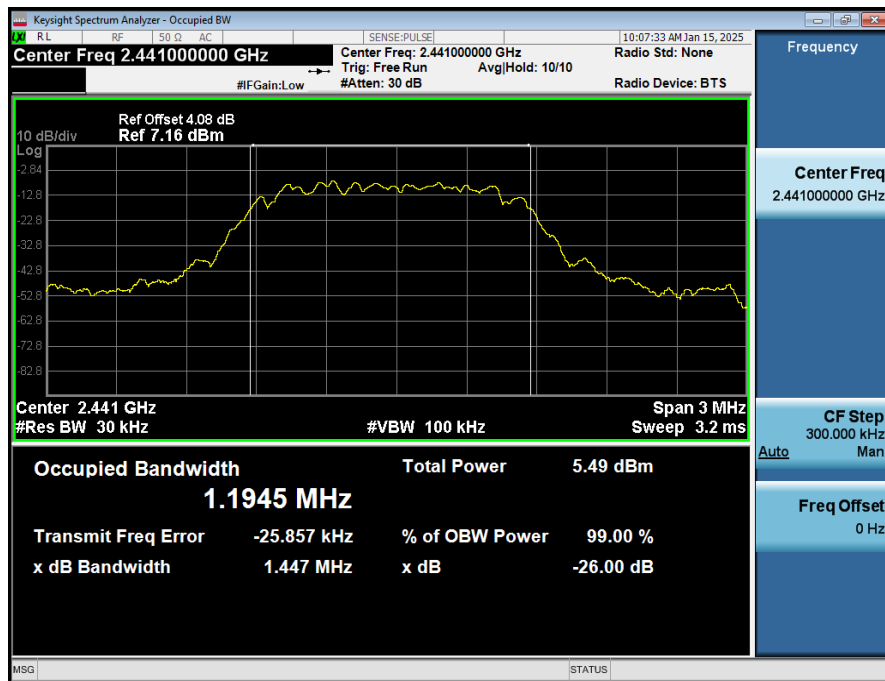
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH1_2480_00



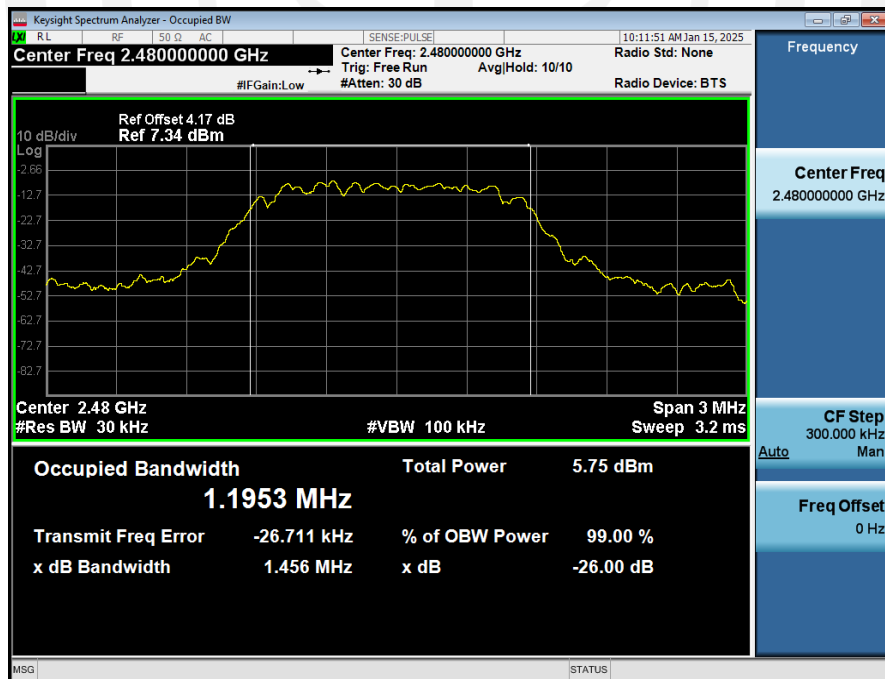
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2402_00



99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2441_00



99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2480_00



99%_Occupied_Bandwidth_NVNT_ANT1_3-DH1_2402_00



99%_Occupied_Bandwidth_NVNT_ANT1_3-DH1_2441_00



99%_Occupied_Bandwidth_NVNT_ANT1_3-DH1_2480_00



5. Carrier Frequency Separation

5.1. Limit

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

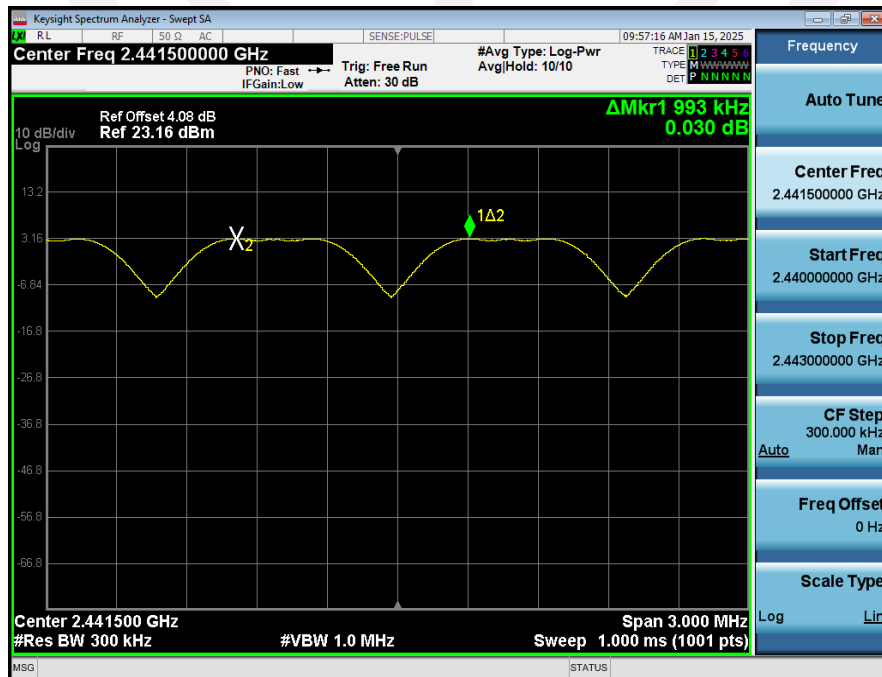
5.2. Test Procedure

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The carrier frequency was measured by spectrum analyzer with 100kHz RBW and 300kHz VBW.

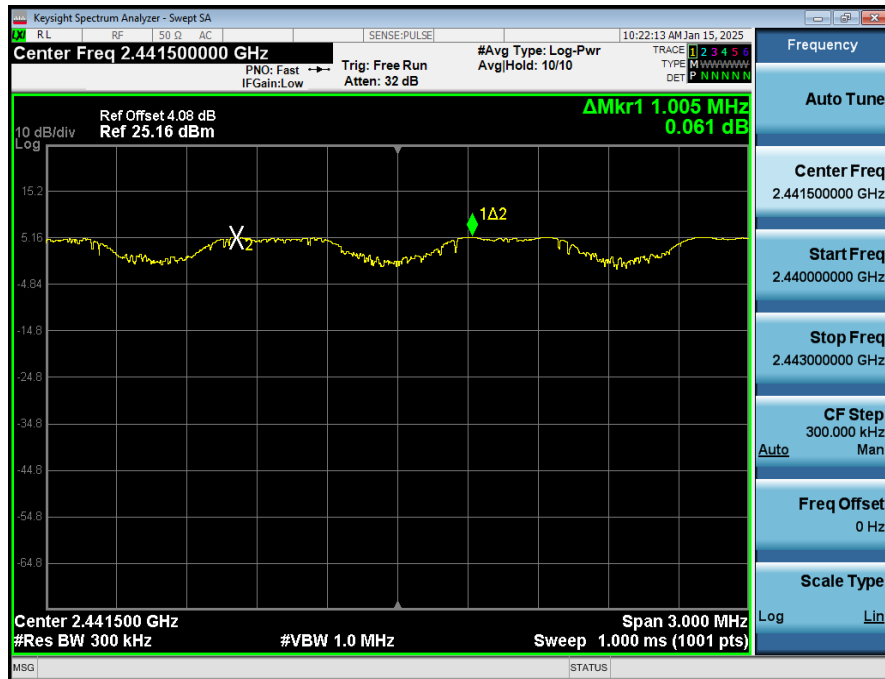
5.3. Test Result

Condition	Antenna	Modulation	Frequency(MHz)	Hopping NO.0 (MHz)	Hopping NO.1 (MHz)	Carrier Frequencies Separation(MHz)	Limit(MHz)	Result
NVNT	ANT1	1-DH1	2441.00	2440.813	2441.806	0.99	0.691	Pass
NVNT	ANT1	2-DH1	2441.00	2440.813	2441.818	1.00	0.899	Pass
NVNT	ANT1	3-DH1	2441.00	2440.810	2441.824	1.01	0.911	Pass

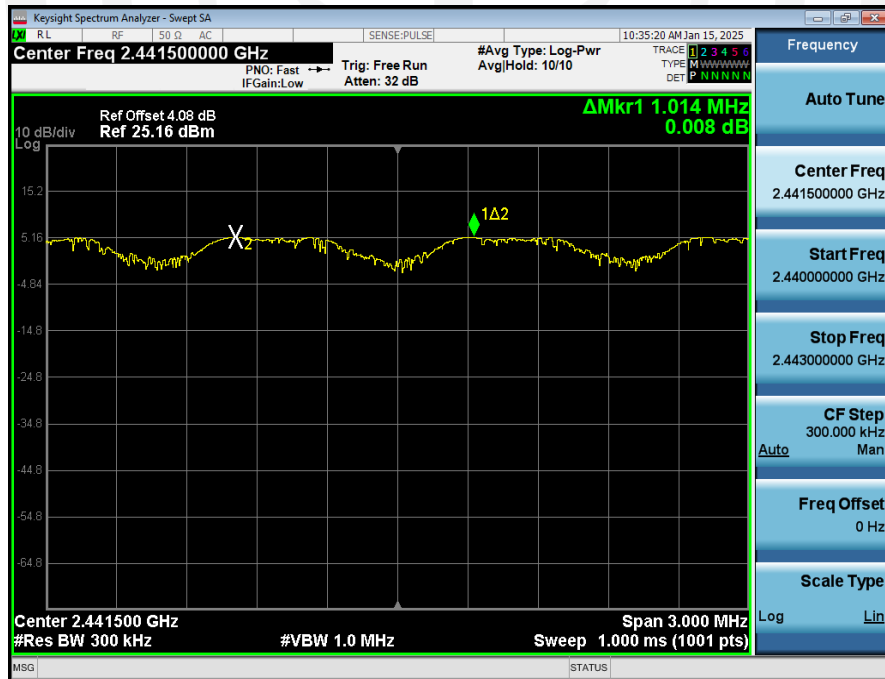
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH1_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH1_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH1_Hopping



6. Number Of Hopping Channel

6.1. Limit

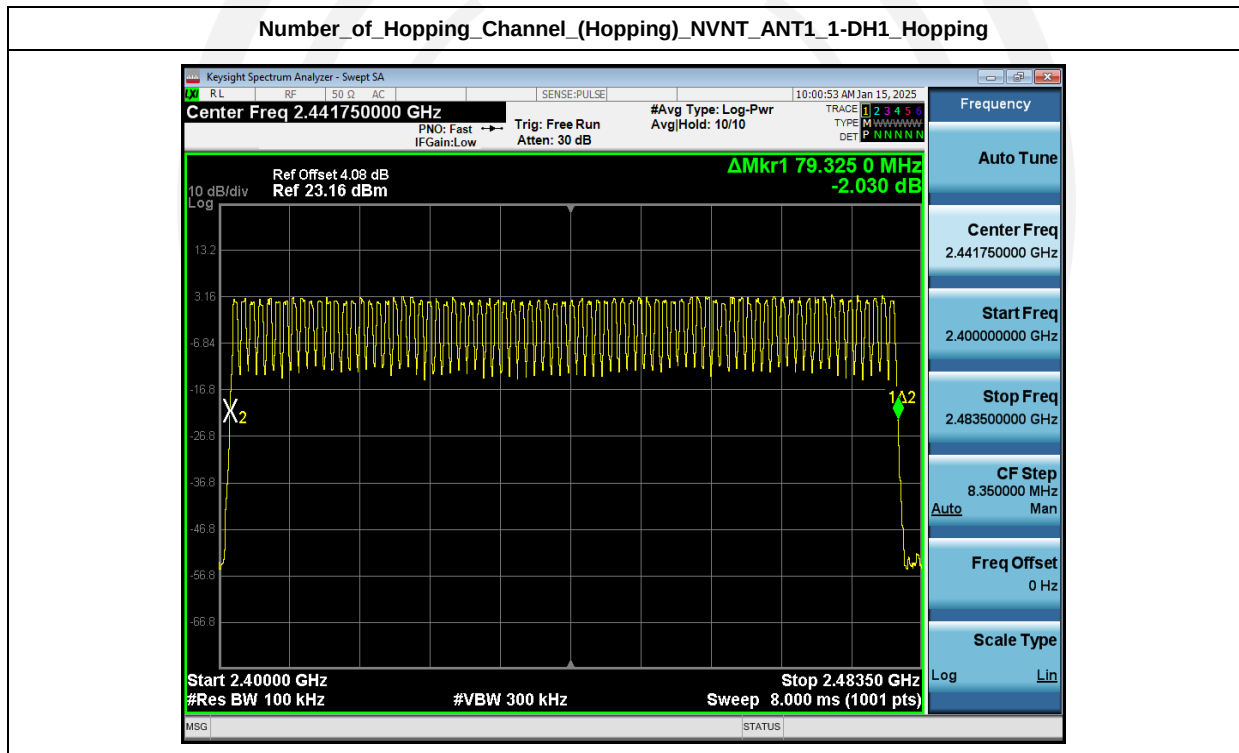
Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels

6.2. Test Procedure

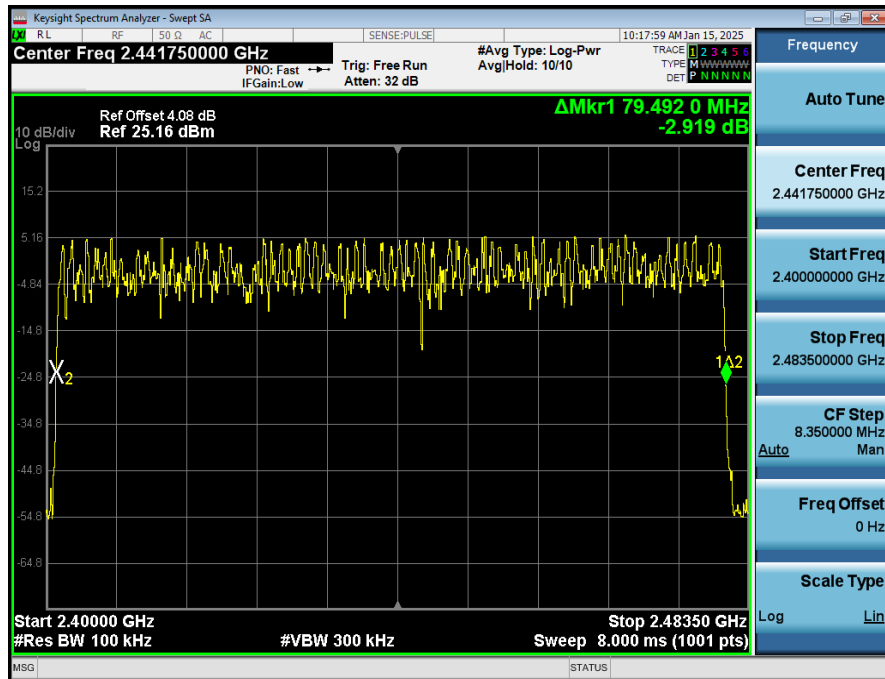
The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The number of hopping channel was measured by spectrum analyzer with 100kHz RBW and 300KHz VBW.

6.3. Test Result

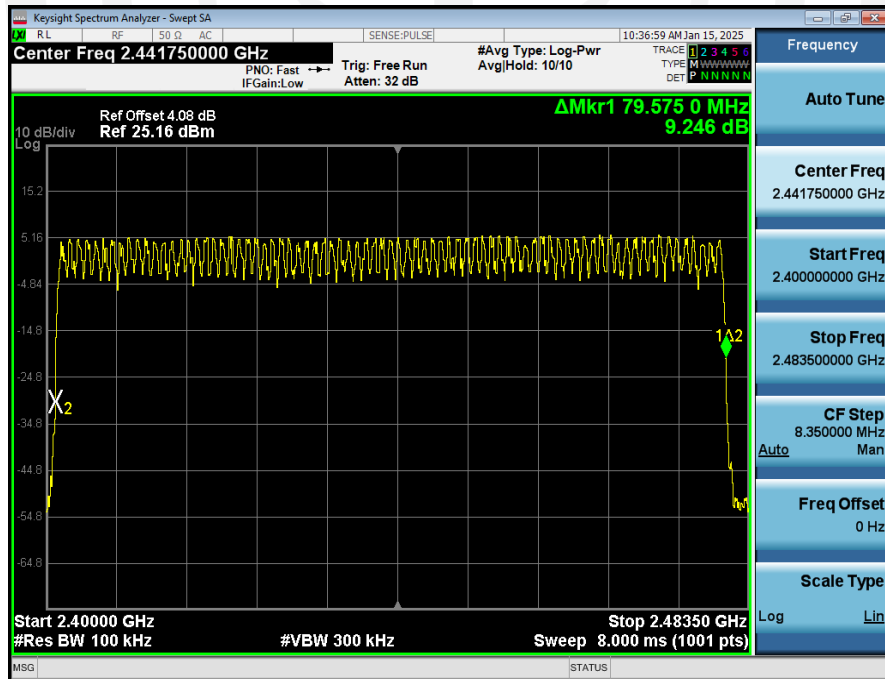
Condition	Antenna	Modulation	Hopping Num	Limit	Result
NVNT	ANT1	1-DH1	79	15	Pass
NVNT	ANT1	2-DH1	79	15	Pass
NVNT	ANT1	3-DH1	79	15	Pass



Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_2-DH1_Hopping



Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH1_Hopping



7. Dwell Time

7.1. Test limit

Please refer FCC part 15.247 & RSS-247.

Frequency hopping systems operating in the 2400MHz-2483.5 MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

7.2. Test Procedure

7.2.1. Place the EUT on the table and set it in transmitting mode.

7.2.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

7.2.3. Set center frequency of spectrum analyzer = operating frequency.

7.2.4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.

7.2.5. Repeat above procedures until all frequency measured were complete.

7.3. Test Result

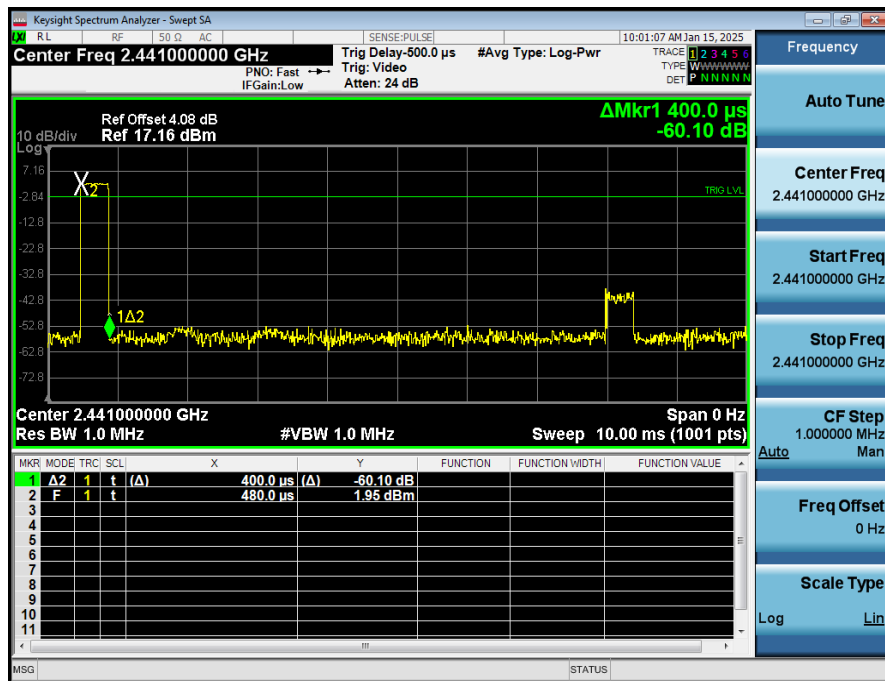
Note:

1. The test period: $T = 0.4 \text{ Second/Channel} \times 79 \text{ Channel} = 31.6 \text{ s}$

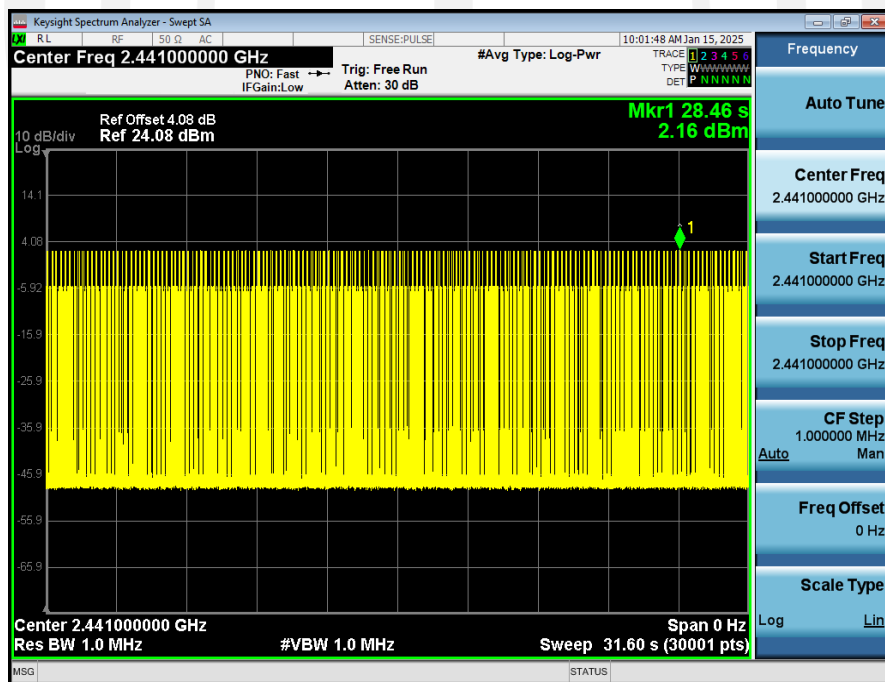
2. Dwell Time = Pulse Time * Hops Number

Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH1	0.400	320.00	128.000	0.40	Pass
NVNT	ANT1	2-DH1	0.400	320.00	128.000	0.40	Pass
NVNT	ANT1	3-DH1	0.400	320.00	128.000	0.40	Pass
NVNT	ANT1	1-DH3	1.650	159.00	262.350	0.40	Pass
NVNT	ANT1	1-DH5	2.900	92.00	266.800	0.40	Pass
NVNT	ANT1	2-DH3	1.660	160.00	265.600	0.40	Pass
NVNT	ANT1	2-DH5	2.900	102.00	295.800	0.40	Pass
NVNT	ANT1	3-DH3	1.650	166.00	273.900	0.40	Pass
NVNT	ANT1	3-DH5	2.910	100.00	291.000	0.40	Pass

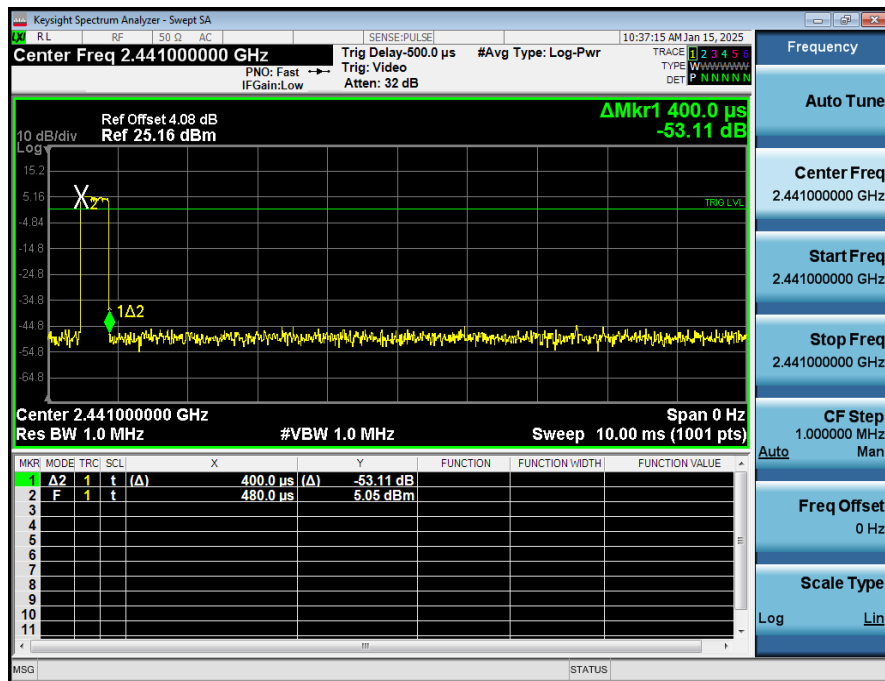
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH1_2441_00_One_Burst_Time



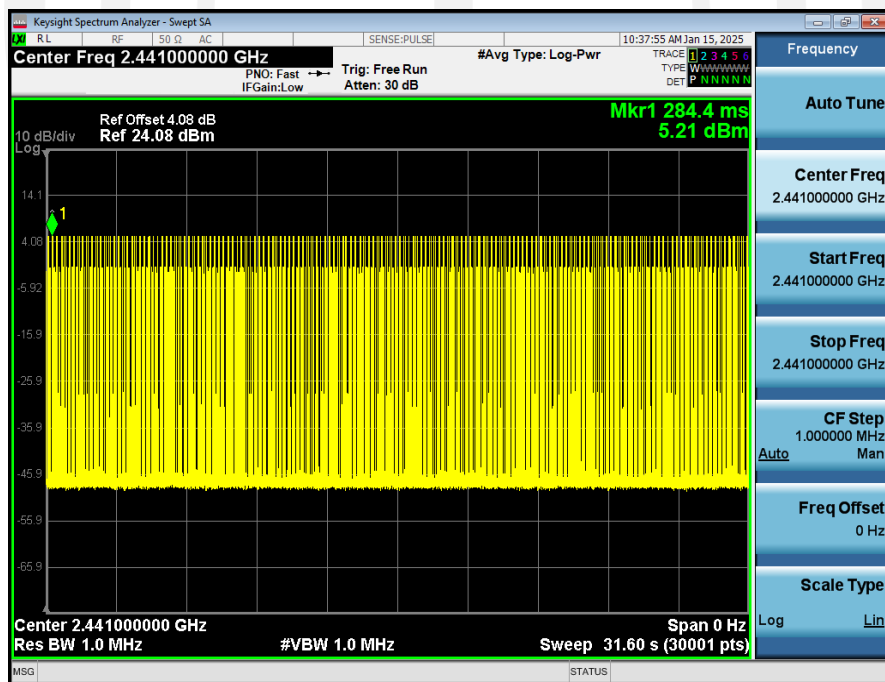
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH1_2441_00_Accumulated



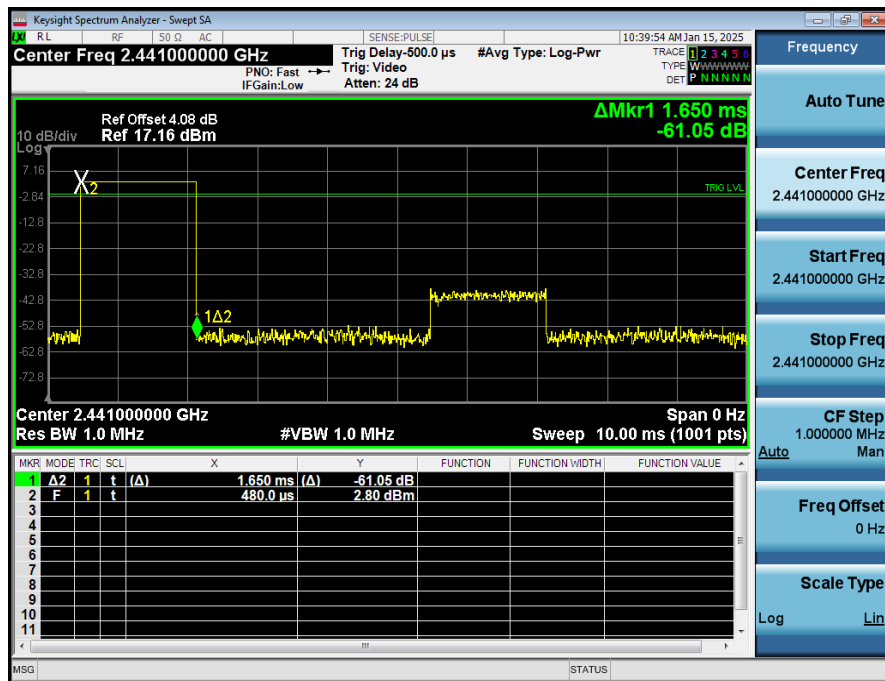
Dwell_Time_(Hopping)_NVNT_ANT1_3-DH1_2441_00_One_Burst_Time



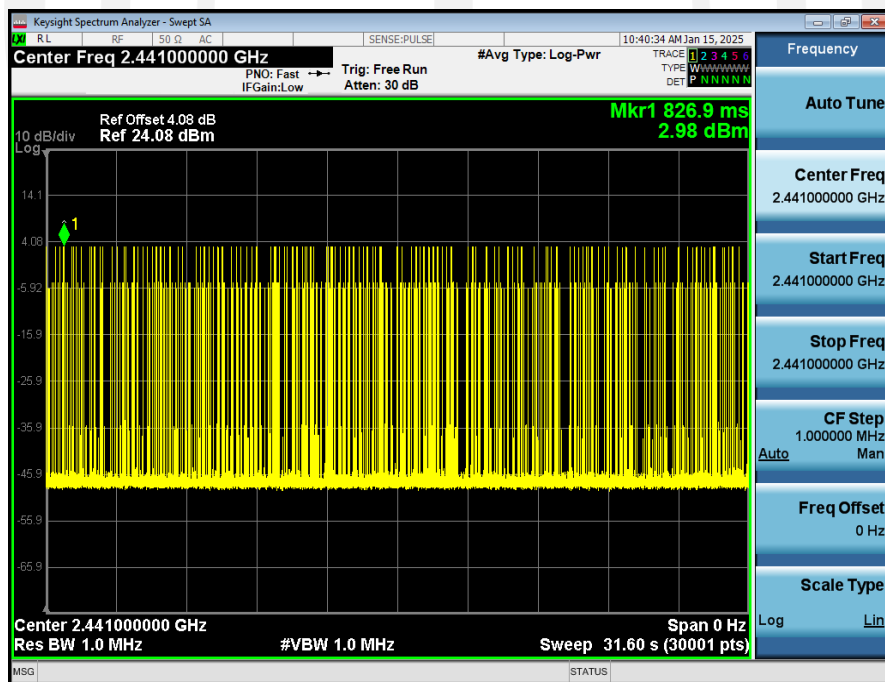
Dwell_Time_(Hopping)_NVNT_ANT1_3-DH1_2441_00_Accumulated



Dwell_Time_(Hopping)_NVNT_ANT1_1-DH3_2441_00_One_Burst_Time



Dwell_Time_(Hopping)_NVNT_ANT1_1-DH3_2441_00_Accumulated



Dwell Time (Hopping)_NVNT_ANT1_1-DH5_2441_00_One_Burst_Time

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig Delay: 500.0 μ s #Avg Type: Log-Pwr

PNO: Fast IFGain: Low Atten: 24 dB

Ref Offset 4.08 dB Ref 17.16 dBm

Δ Mkr1 2.900 ms -58.80 dB

10 dB/div Log

7.16 -2.84 -12.8 -22.8 -32.8 -42.8 -52.8 -62.8 -72.8

Center 2.441000000 GHz Span 0 Hz

Res BW 1.0 MHz #VBW 1.0 MHz Sweep 10.00 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ 2	↑	t	(Δ)	2.900 ms	(Δ)	-58.80 dB	
2	F	↑	t		480.0 μ s		2.67 dBm	
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq 2.441000000 GHz

Start Freq 2.441000000 GHz

Stop Freq 2.441000000 GHz

CF Step 1.000000 MHz Man

Freq Offset 0 Hz

Scale Type Log Lin

KeySight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 4.08 dB
Ref 24.08 dBm

Mkr1 850.0 ms
2.86 dBm

Auto Tune

Center Freq
2.441000000 GHz

Start Freq
2.441000000 GHz

Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz
Auto

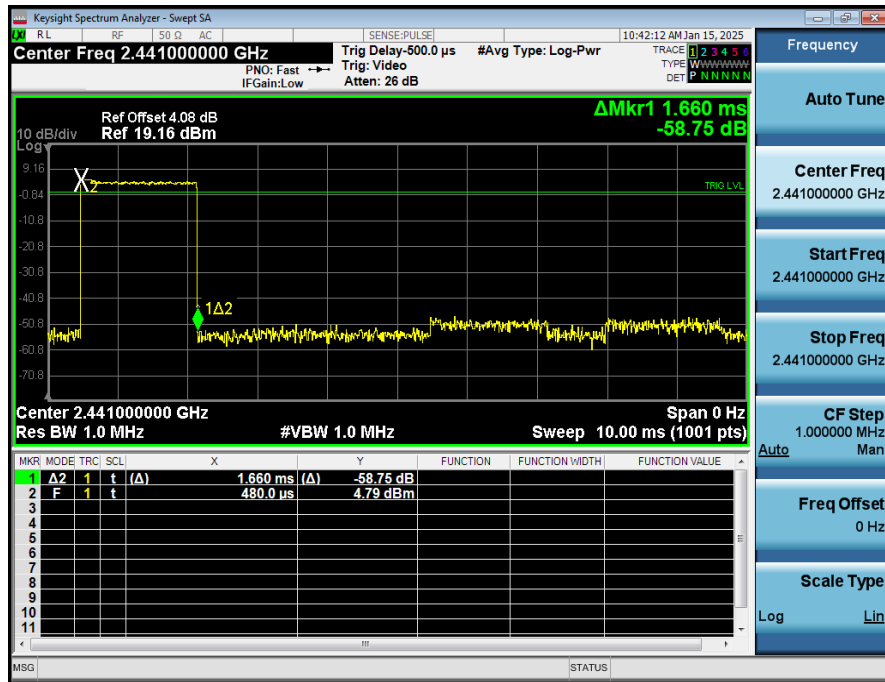
Freq Offset
0 Hz

Scale Type
Log

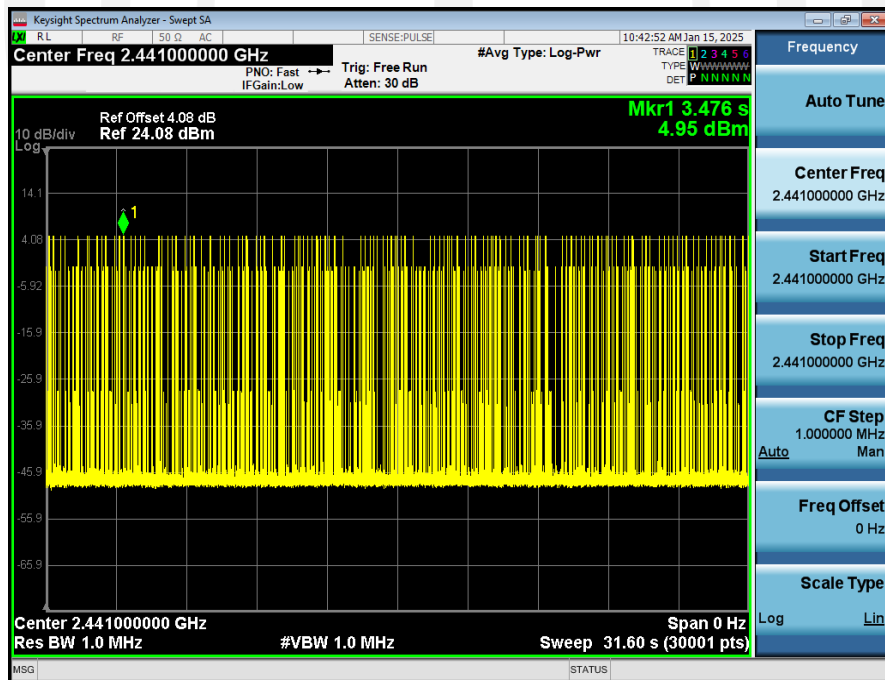
Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 1.0 MHz
Sweep 31.60 s (30001 pts)

Span 0 Hz

Dwell_Time_(Hopping)_NVNT_ANT1_2-DH3_2441_00_One_Burst_Time



Dwell_Time_(Hopping)_NVNT_ANT1_2-DH3_2441_00_Accumulated



Key Parameters:

- Center Freq: 2.441000000 GHz
- Ref Offset: 4.08 dB
- Ref: 19.16 dBm
- Trig Delay: 500.0 μ s
- Atten: 26 dB
- $\Delta Mkr1$: 2.900 ms
- -25.11 dB

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	A2	1	t	(Δ)	2.900 ms	(Δ)	-25.11 dB	
2	F	1	t	(Δ)	480.0 μ s	(Δ)	4.70 dBm	

Keysight Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:PULSE 10:44:19 AM Jan 15, 2025

Center Freq 2.441000000 GHz #Avg Type: Log-Pwr

PNO: Fast Trg: Free Run TYPE 1 2 3 4 5 6
IFGain: Low Atten: 30 dB DET W W W W W W W W
2 N N N N N N

Ref Offset 4.08 dB Mkr1 7.767 S
Ref 24.08 dBm 4.87 dBm

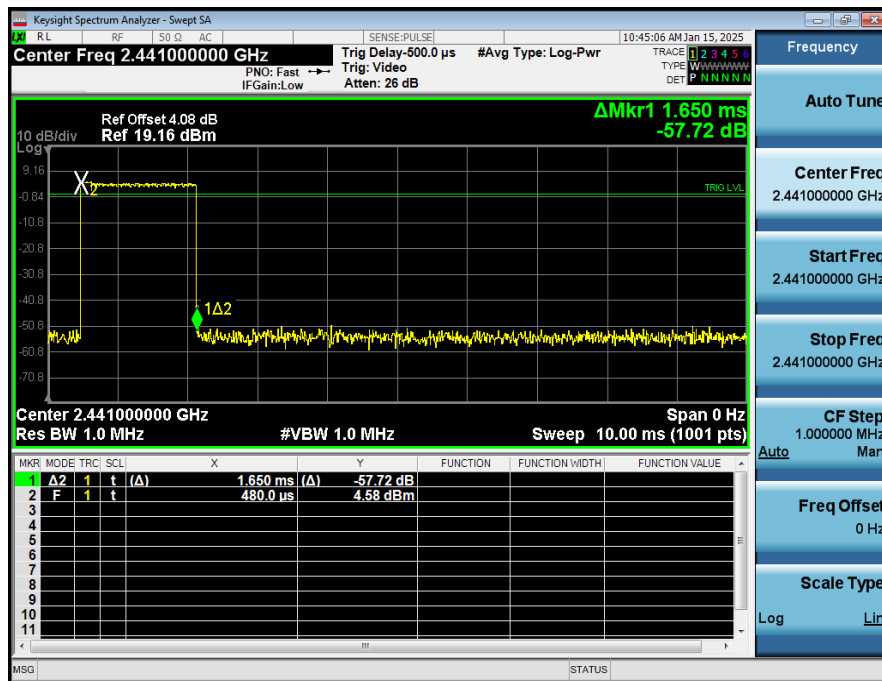
10 dB/div Log

Center 2.441000000 GHz Span 0 Hz
Res BW 1.0 MHz Sweep 31.60 s (30001 pts)
#VBW 1.0 MHz

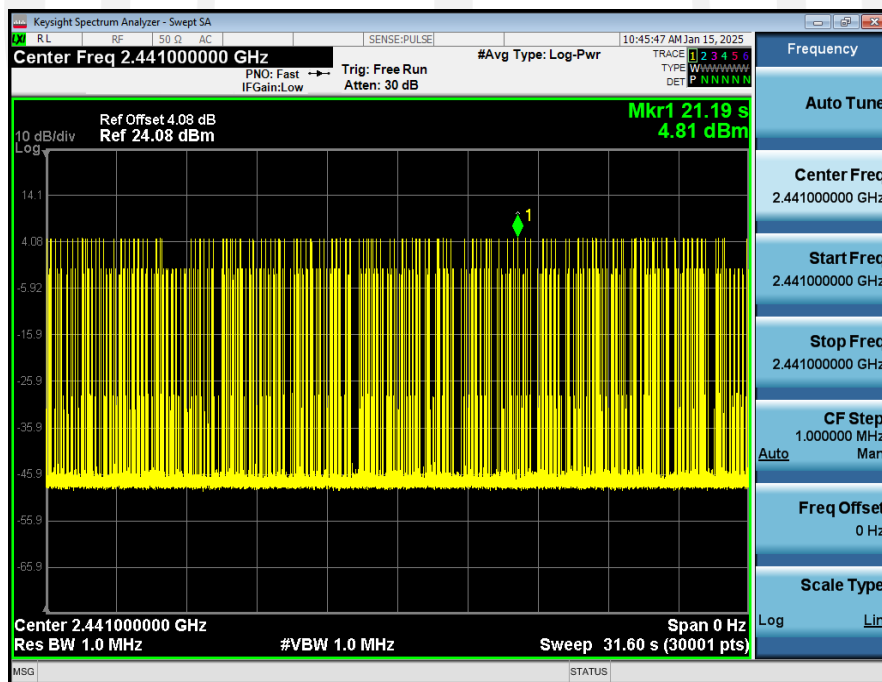
MSG STATUS

Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Mar Freq Offset 0 Hz Scale Type Log Lin

Dwell_Time_(Hopping)_NVNT_ANT1_3-DH3_2441_00_One_Burst_Time



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH3_2441_00_Accumulated



8. Out-of-band Emissions

8.1. Test Limits

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 FCC Part 15.209(a) is not required.

8.2. Test Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, band edge and out-of-band emissions.

8.3. Test Setup



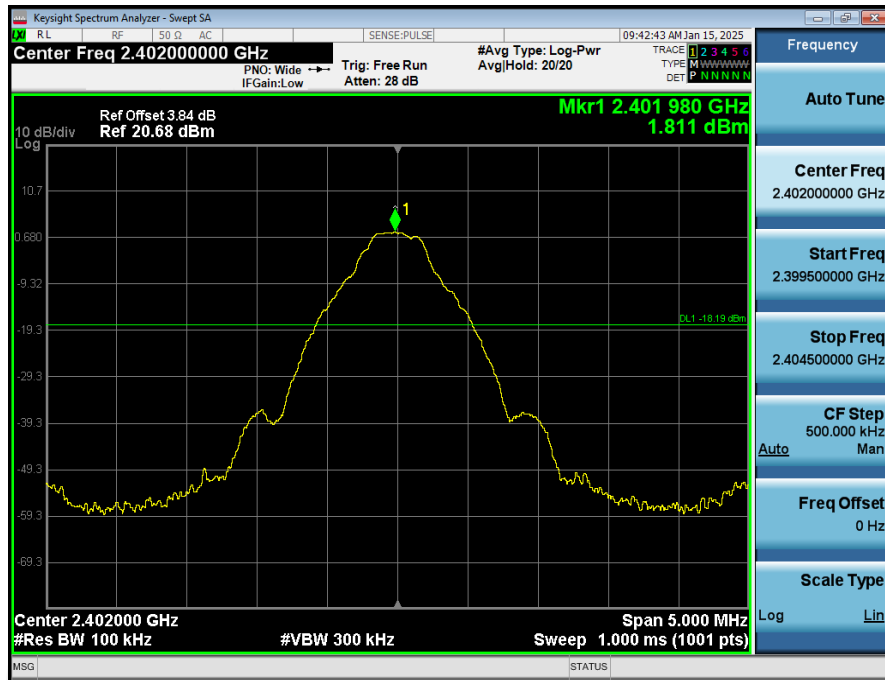
8.4. Test Results

PASS.

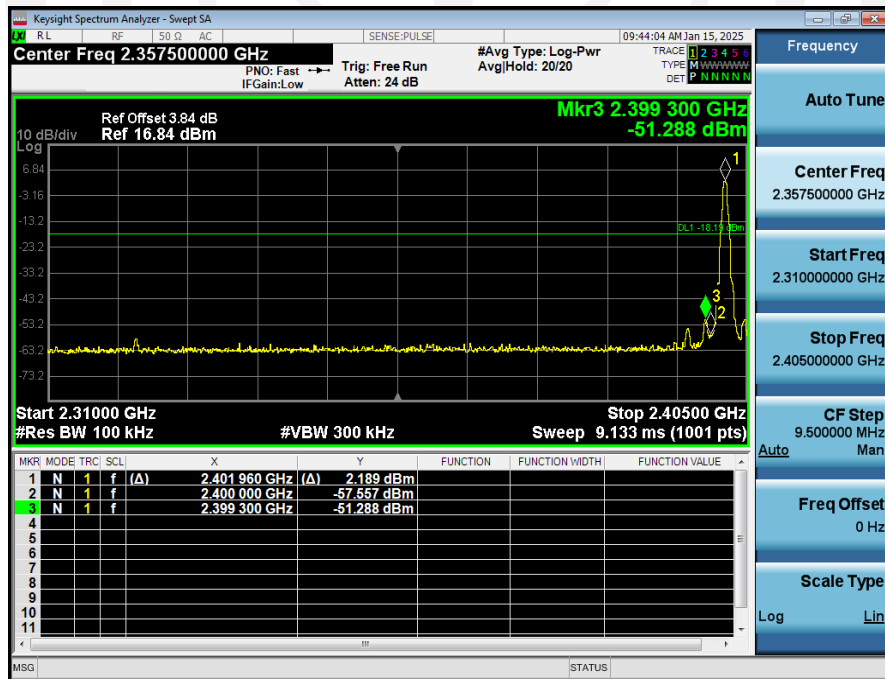
The test results are listed in next pages.

Band Edge: Pass

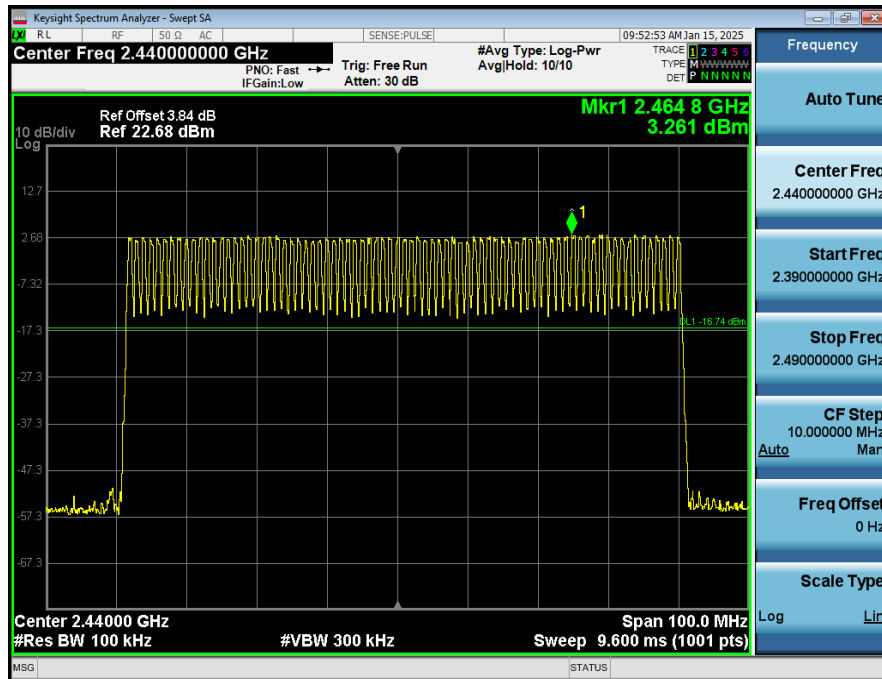
1_Reference_Level_NVNT_ANT1_1-DH1_2402_00



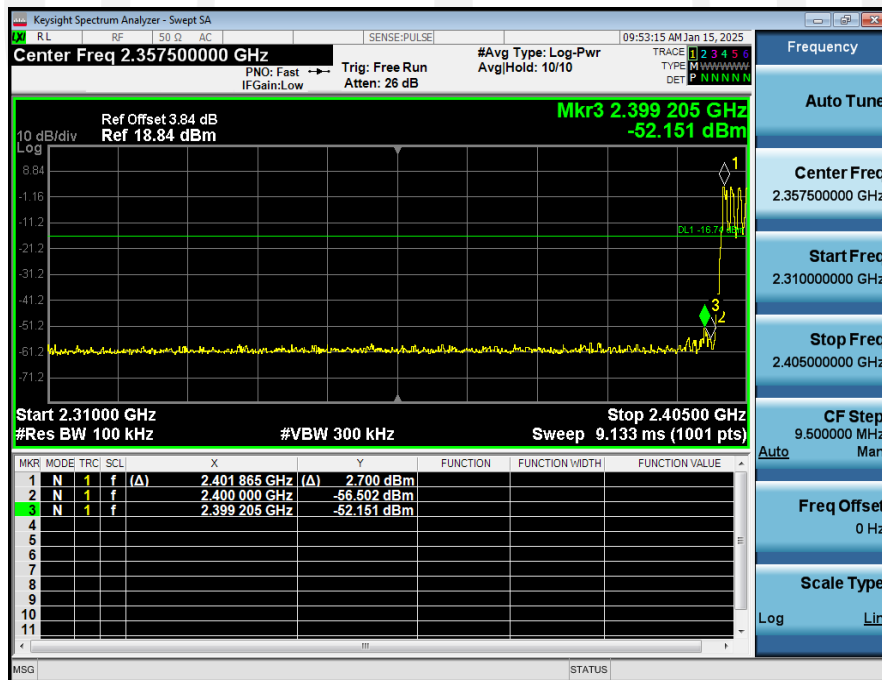
2_Bandedge_NVNT_ANT1_1-DH1_2402_00



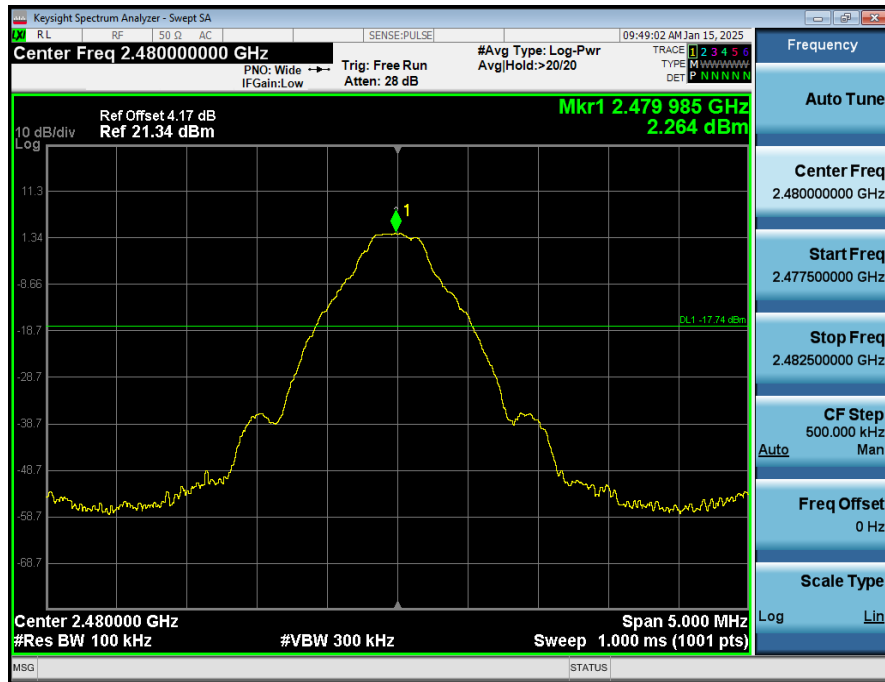
1_Reference_Level_Hopping_NVNT_ANT1_1-DH1_Hopping



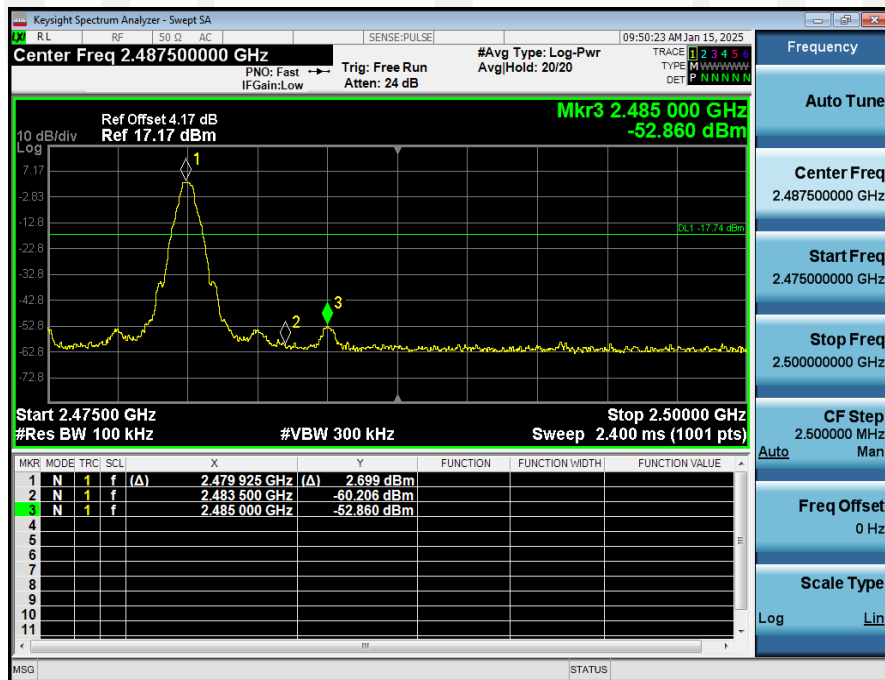
2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH1_Hopping



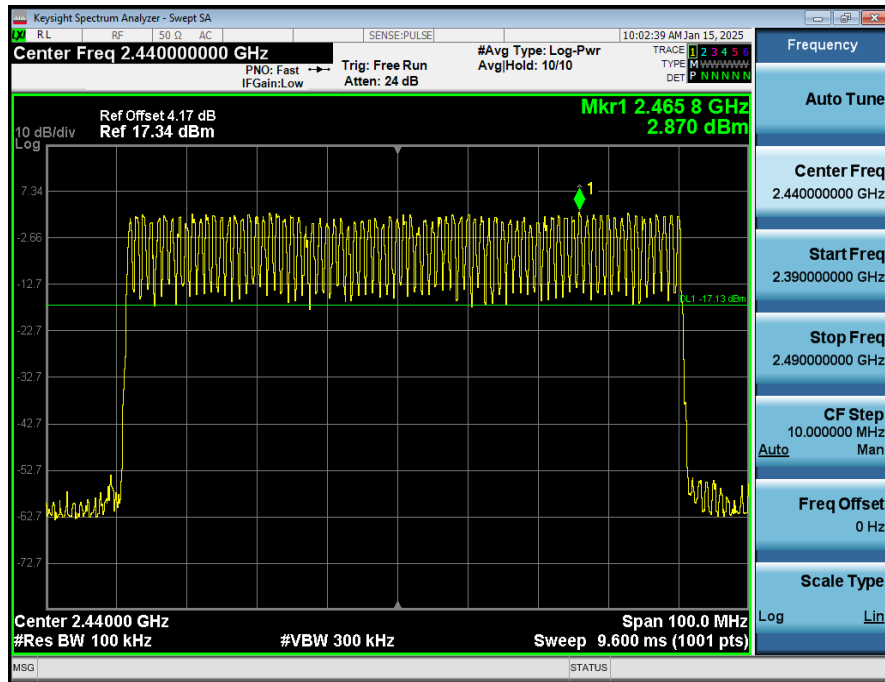
1_Reference_Level_NVNT_ANT1_1-DH1_2480_00



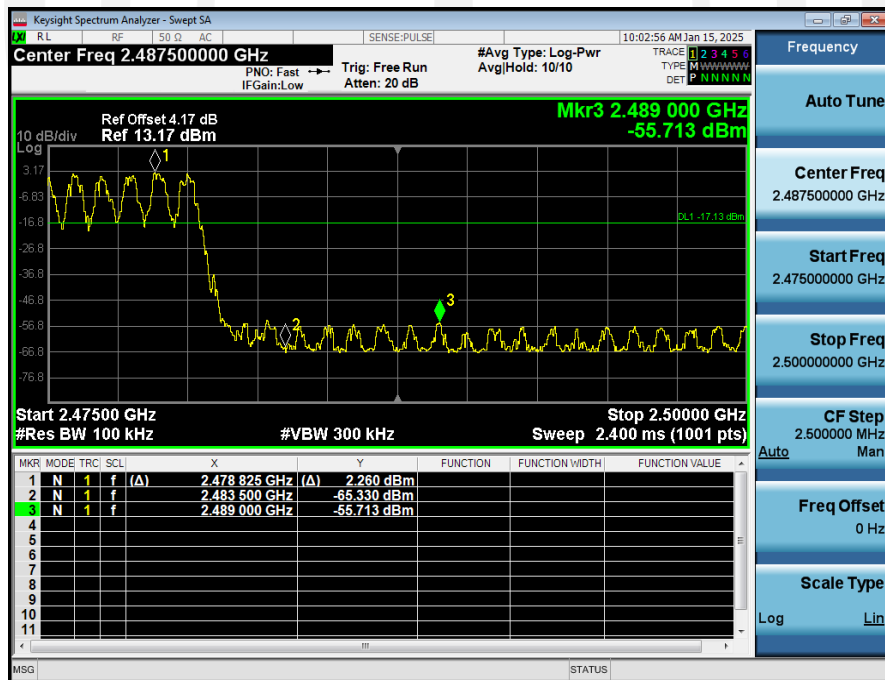
2_Bandedge_NVNT_ANT1_1-DH1_2480_00



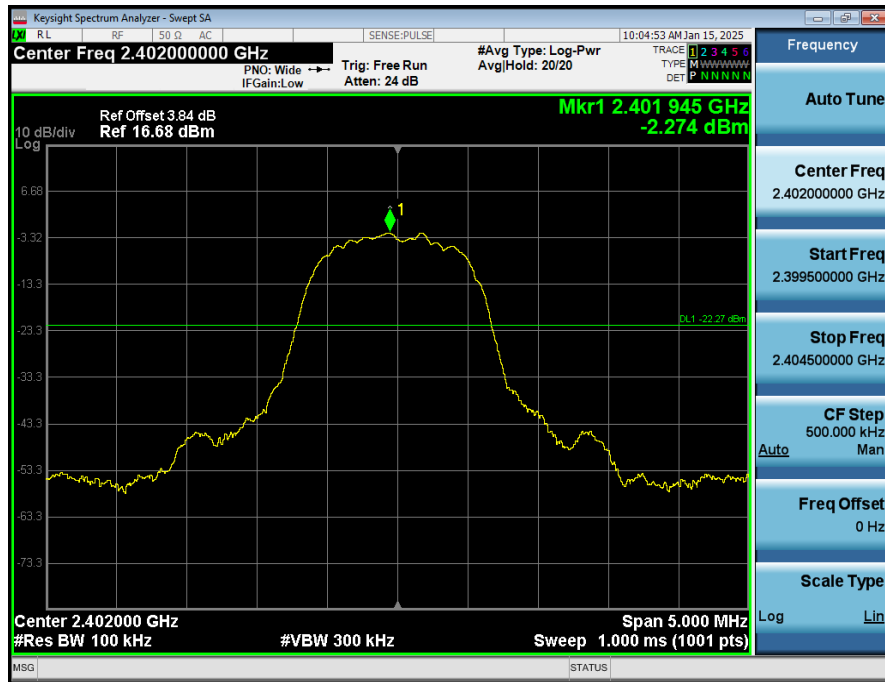
1_Reference_Level_Hopping_NVNT_ANT1_1-DH1_Hopping



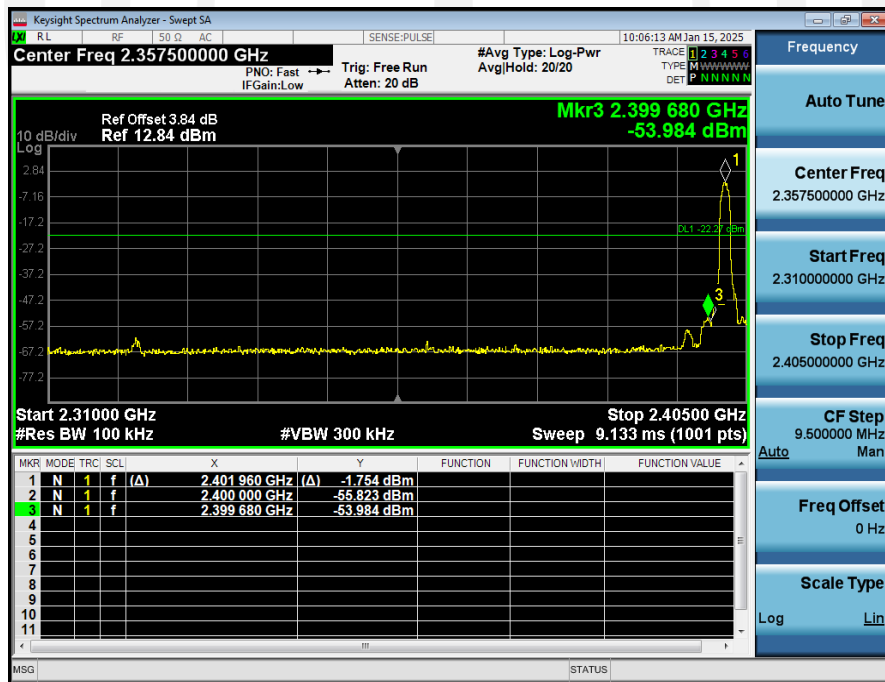
2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH1_Hopping



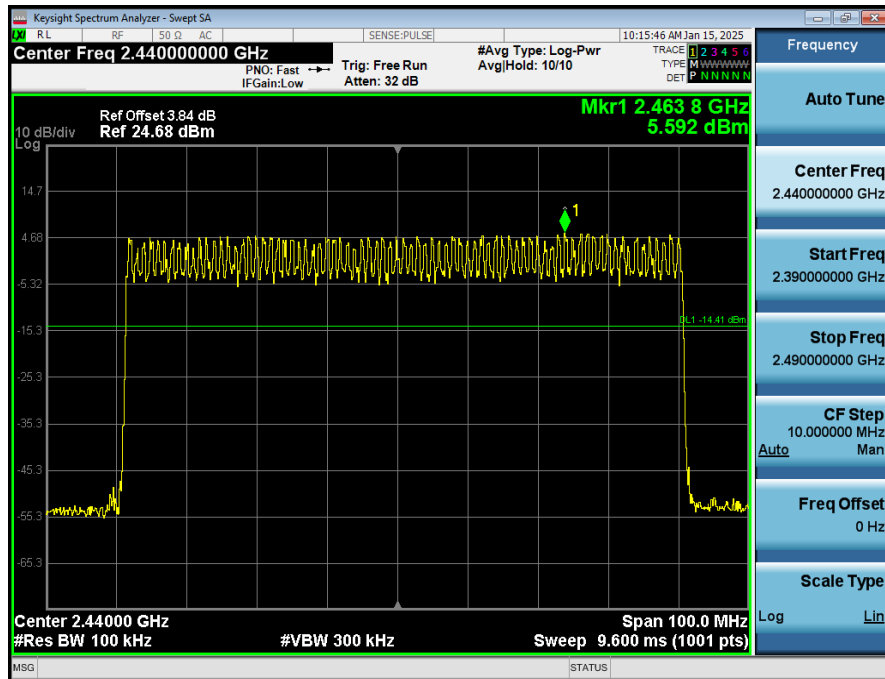
1_Reference_Level_NVNT_ANT1_2-DH1_2402_00



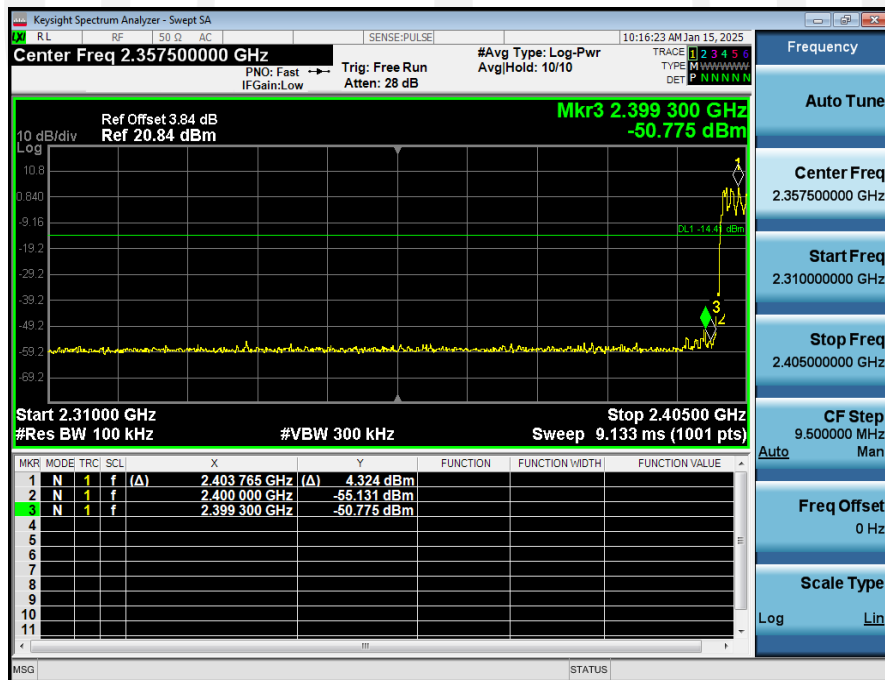
2_Bandedge_NVNT_ANT1_2-DH1_2402_00



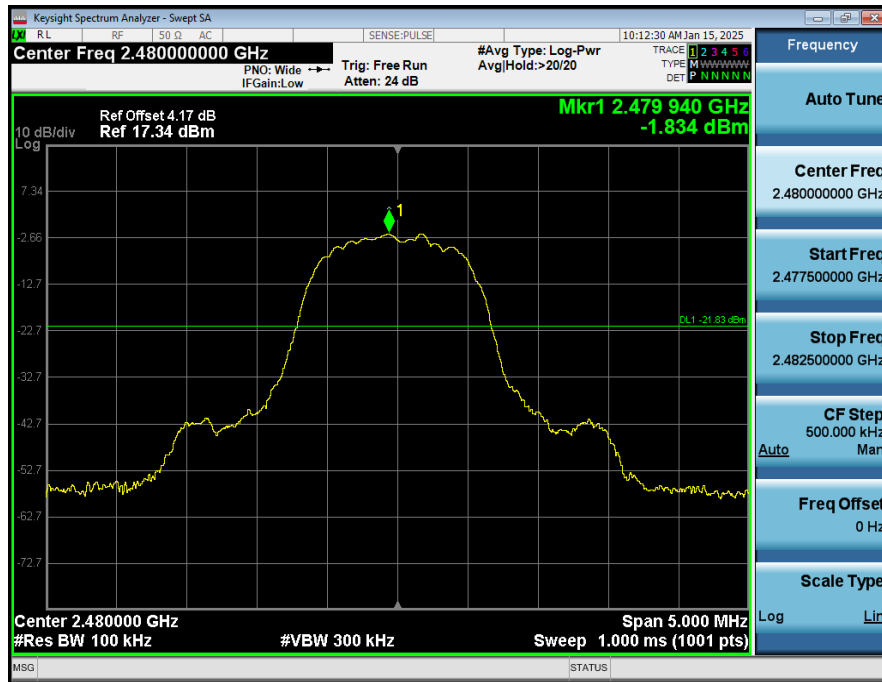
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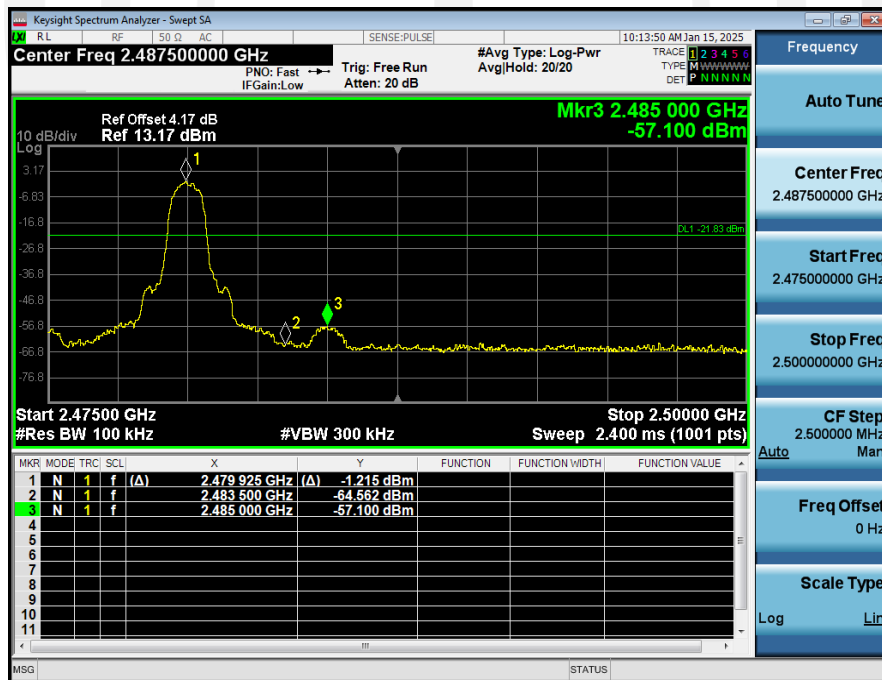
2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH1_Hopping



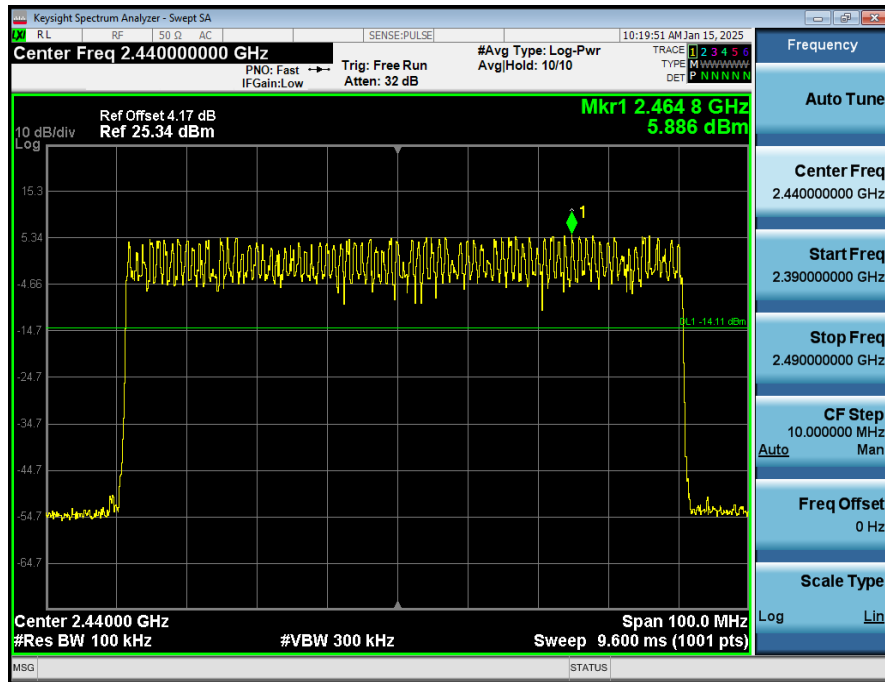
1_Reference_Level_NVNT_ANT1_2-DH1_2480_00



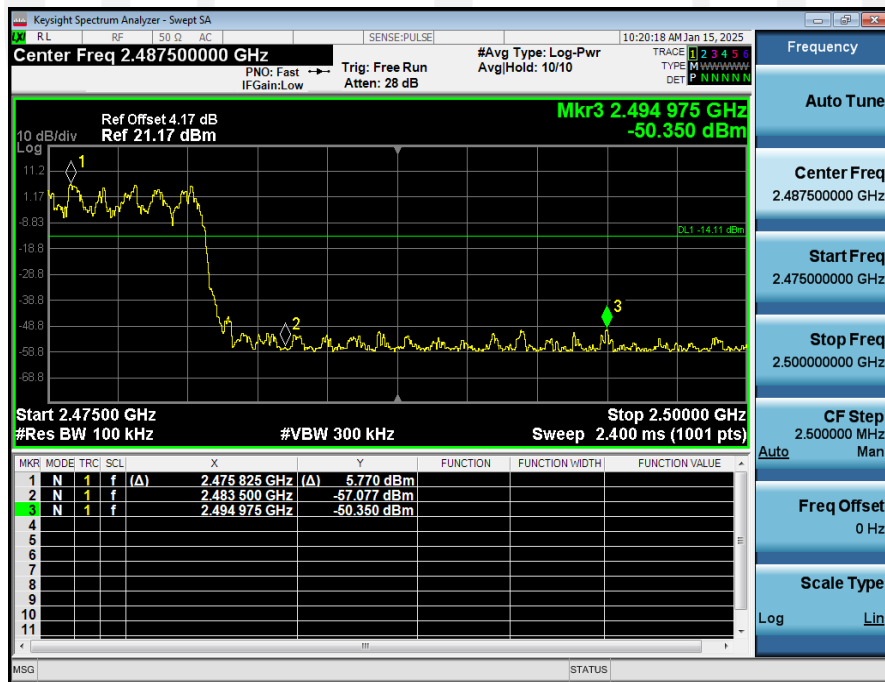
2_Bandedge_NVNT_ANT1_2-DH1_2480_00



1_Reference_Level_Hopping_NVNT_ANT1_2-DH1_Hopping



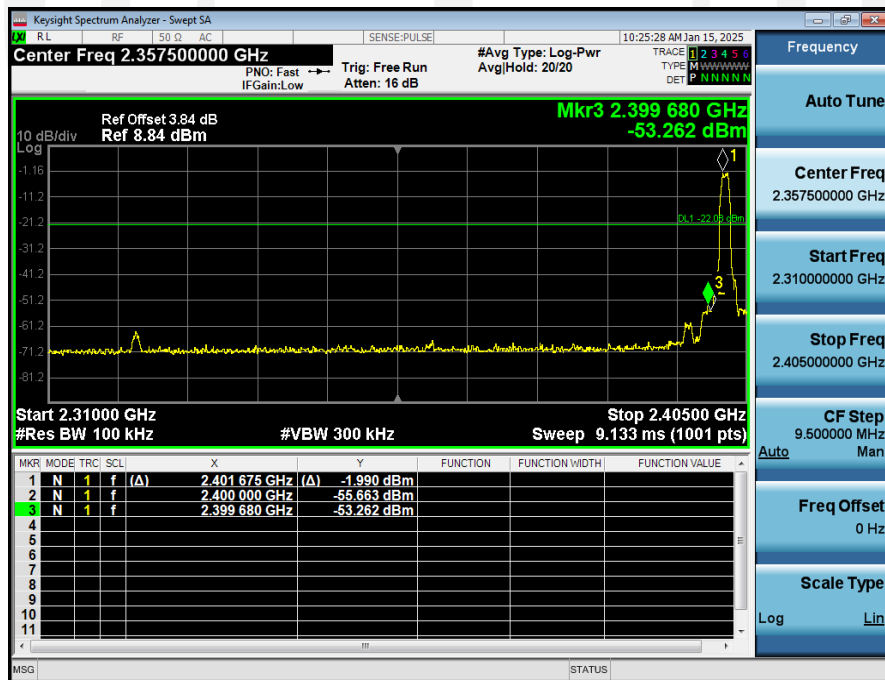
2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH1_Hopping



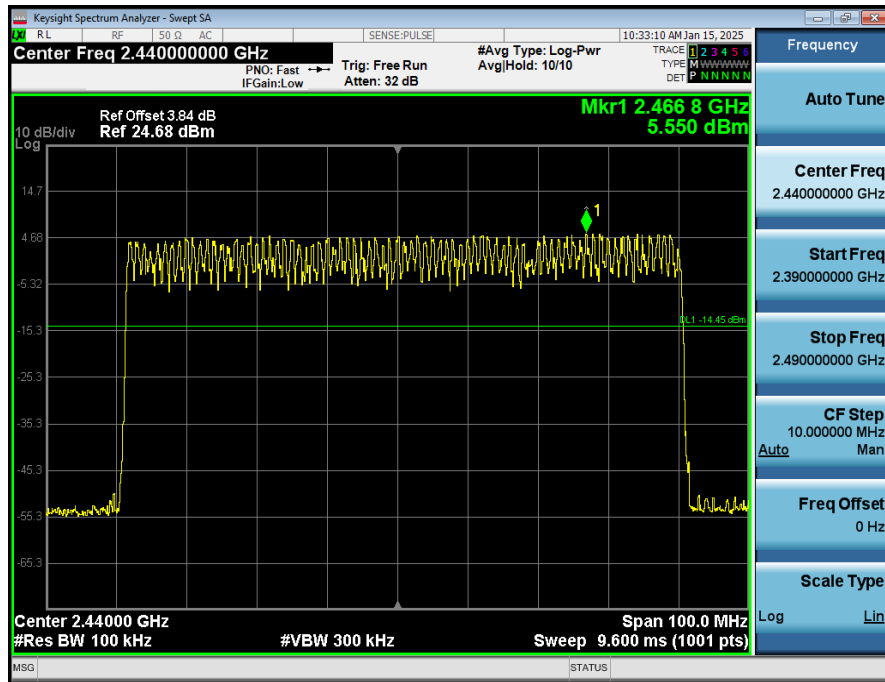
1_Reference_Level_NVNT_ANT1_3-DH1_2402_00



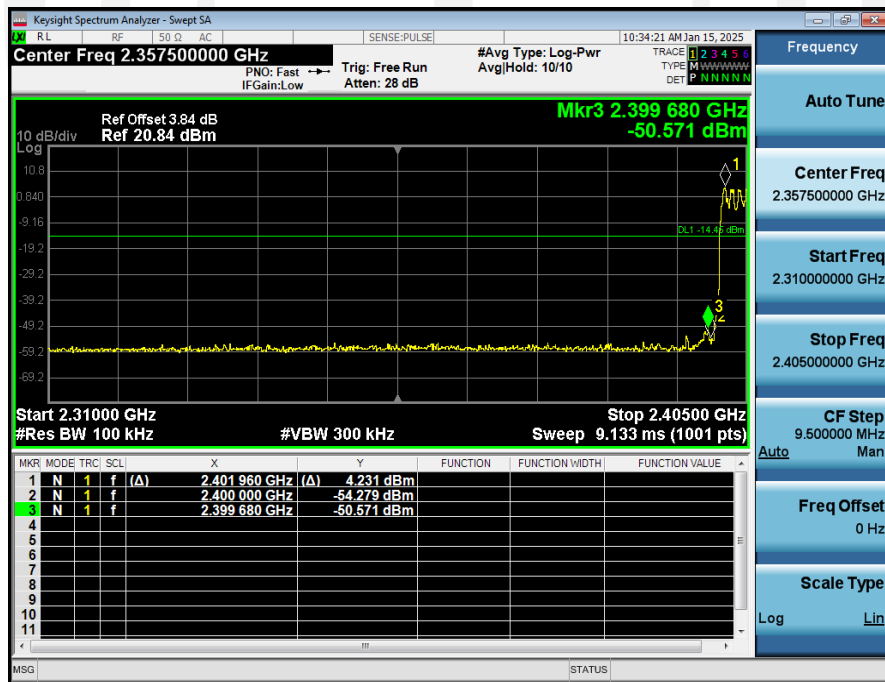
2_Bandedge_NVNT_ANT1_3-DH1_2402_00



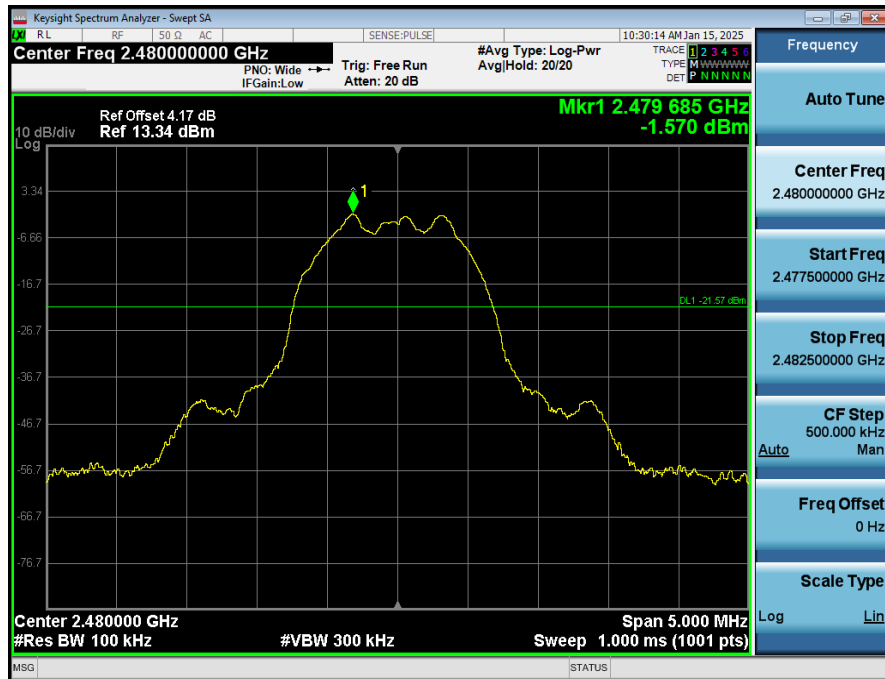
1_Reference_Level_Hopping_NVNT_ANT1_3-DH1_Hopping



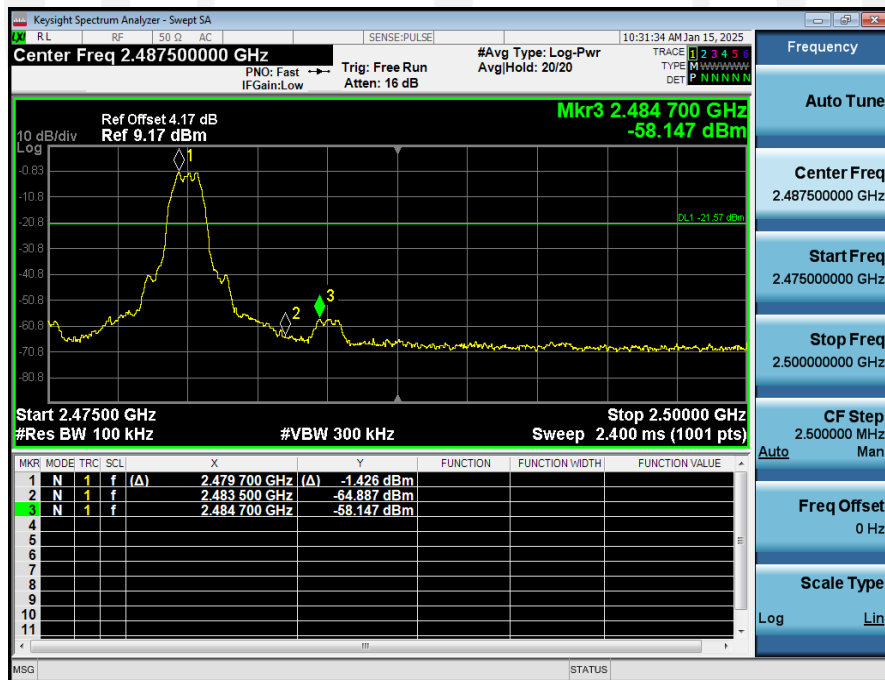
2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH1_Hopping



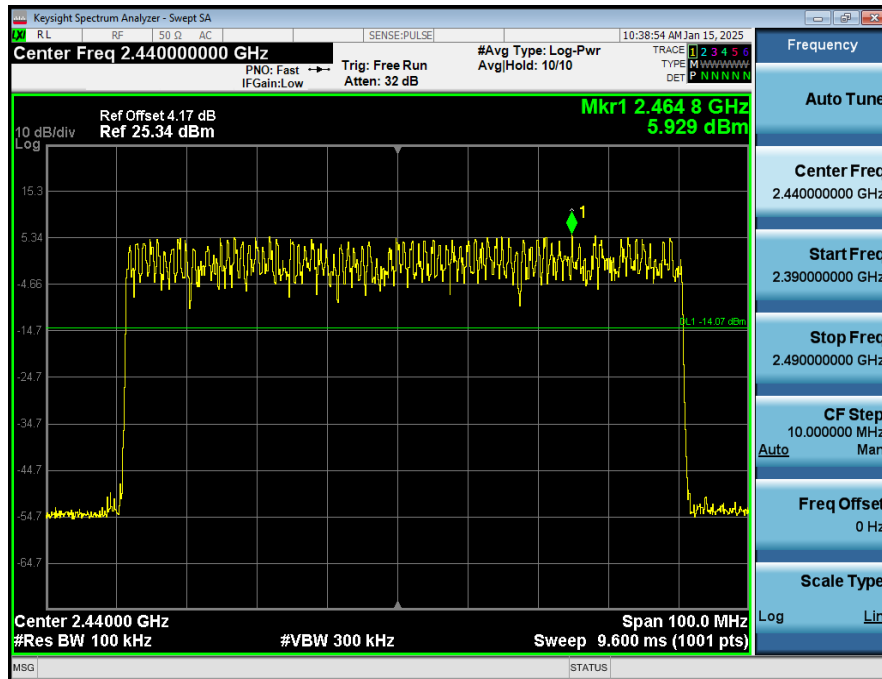
1_Reference_Level_NVNT_ANT1_3-DH1_2480_00



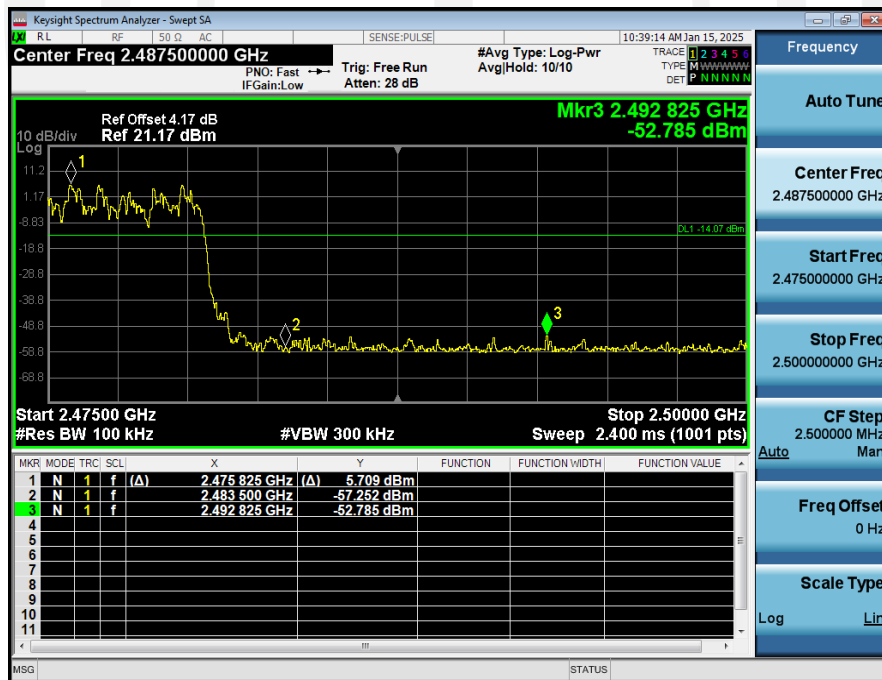
2_Bandedge_NVNT_ANT1_3-DH1_2480_00



1_Reference_Level_Hopping_NVNT_ANT1_3-DH1_Hopping

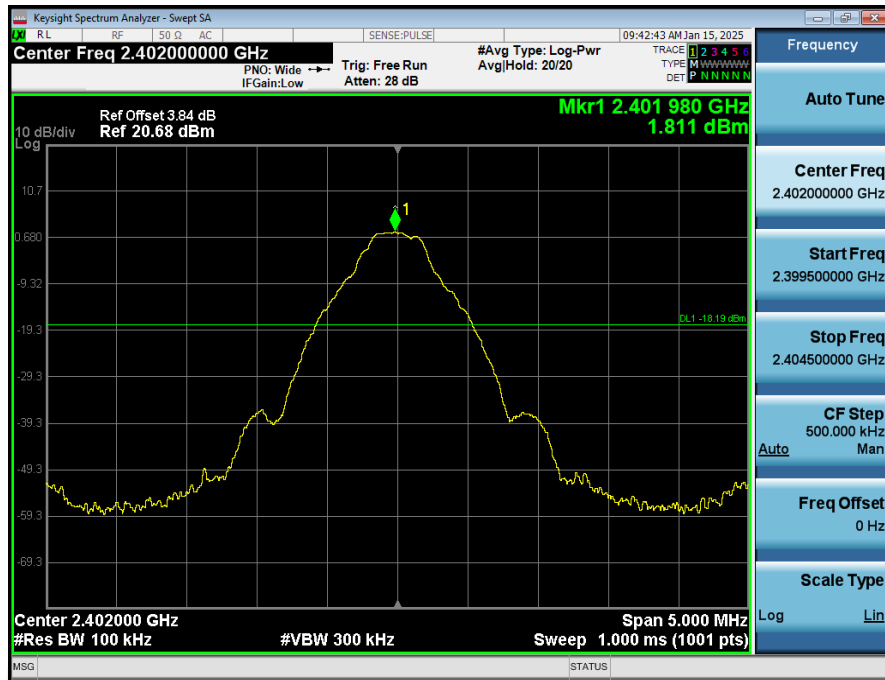


2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH1_Hopping

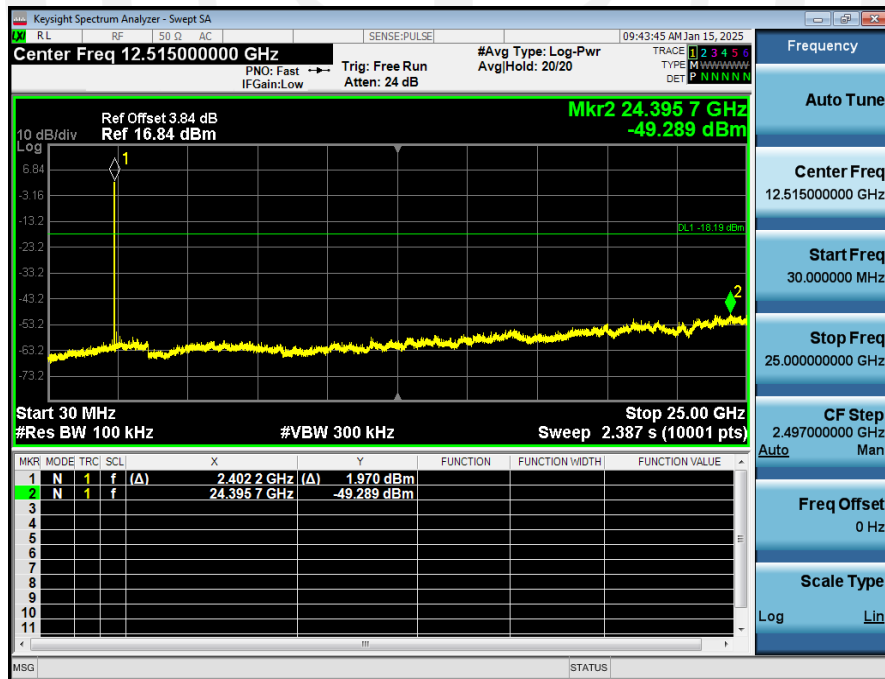


Conducted spurious emission: Pass

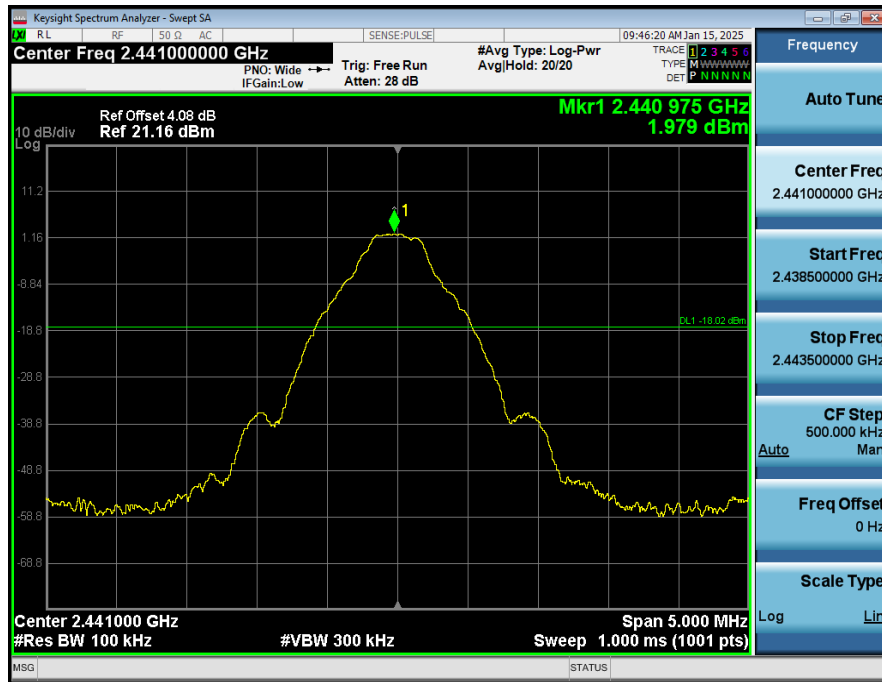
1_Reference_Level_NVNT_ANT1_1-DH1_2402_00



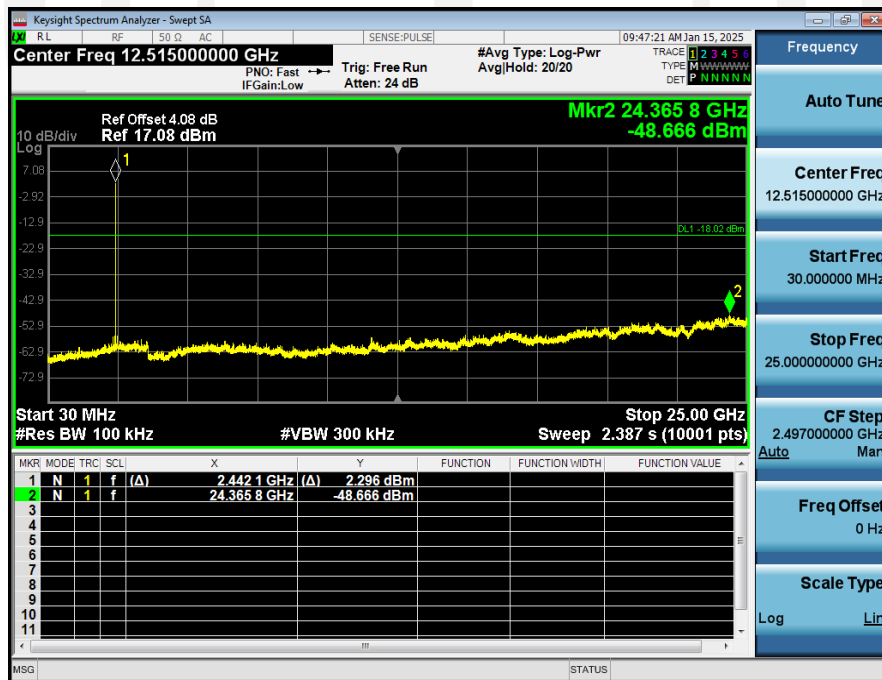
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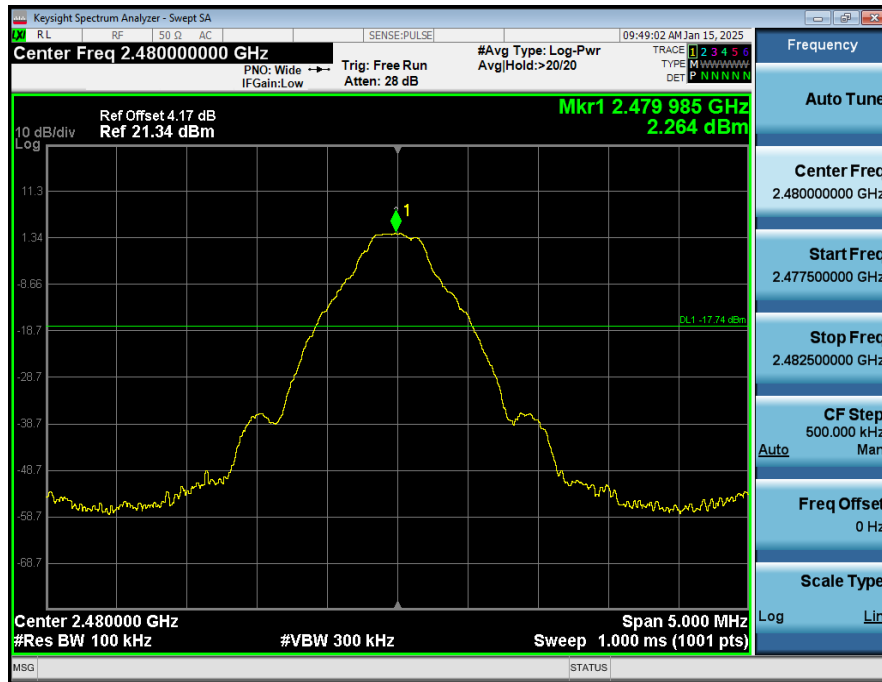
1_Reference_Level_NVNT_ANT1_1-DH1_2441_00



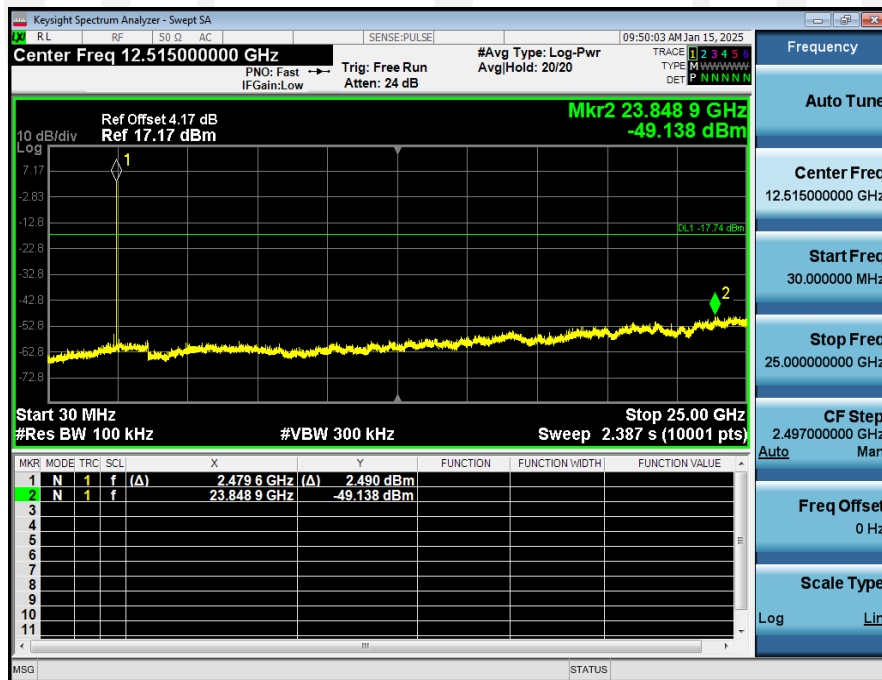
2_Spurious_Emissions_NVNT_ANT1_1-DH1_2441_00



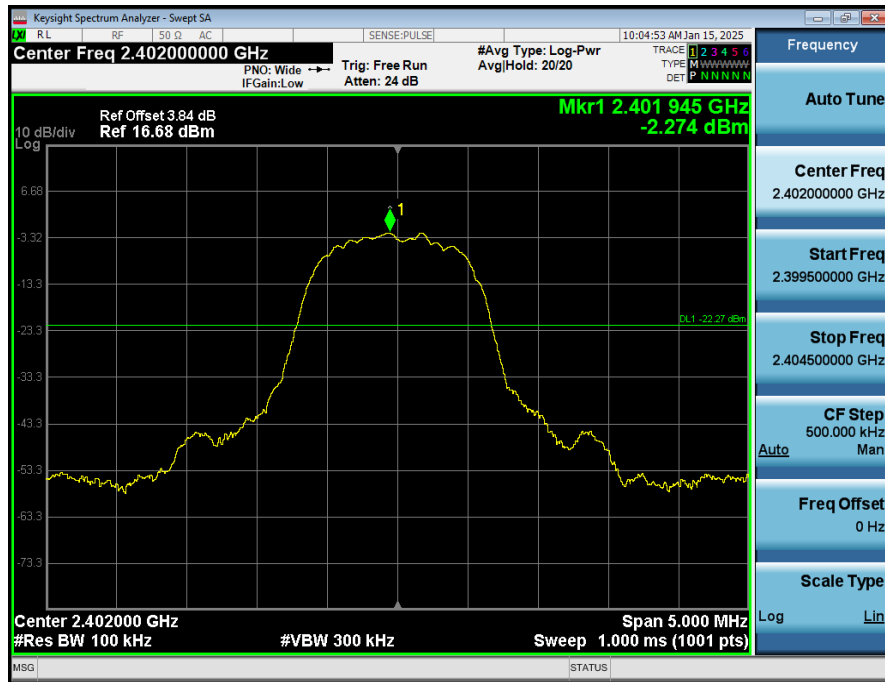
1_Reference_Level_NVNT_ANT1_1-DH1_2480_00



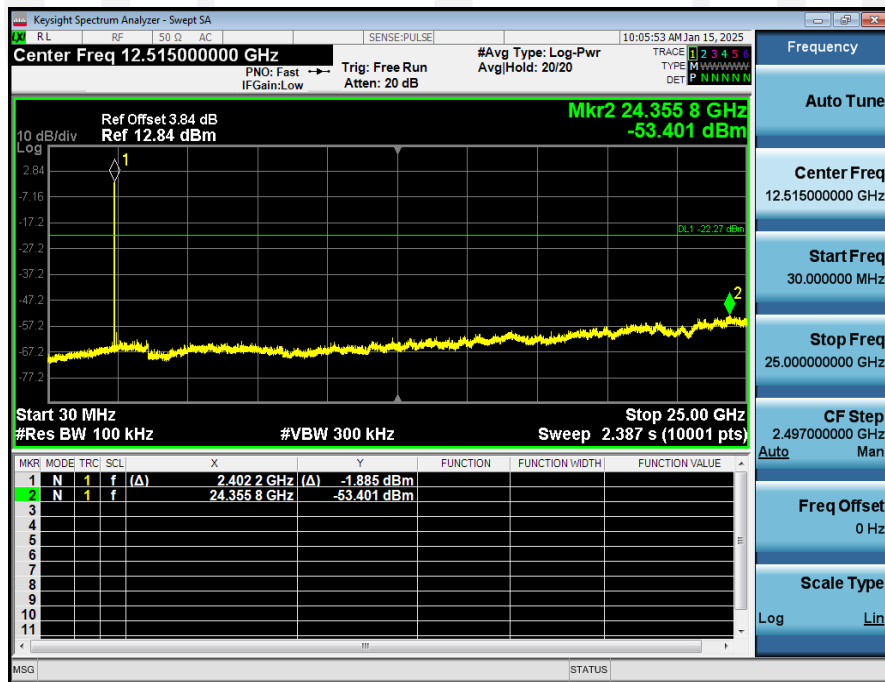
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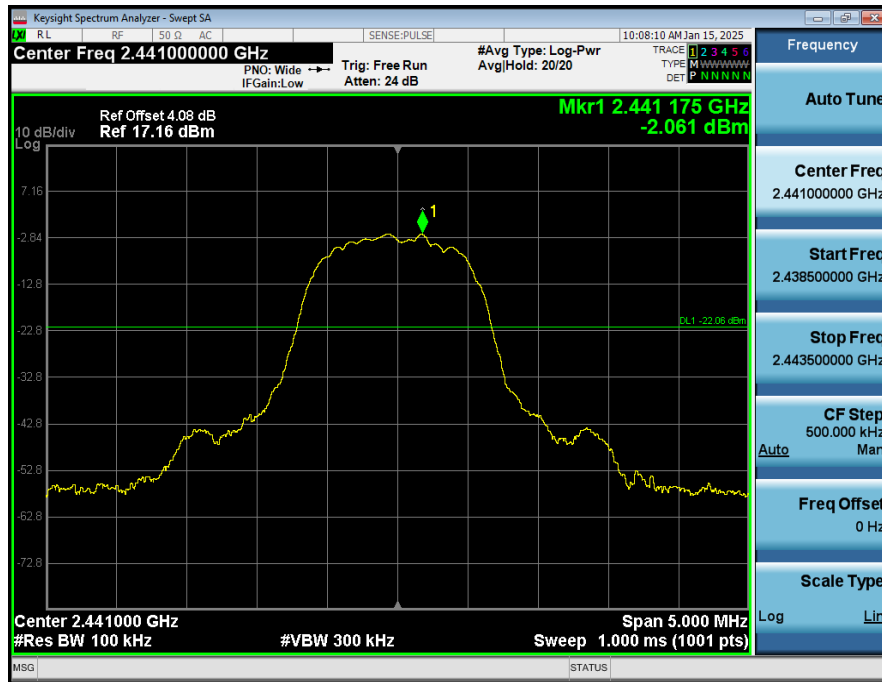
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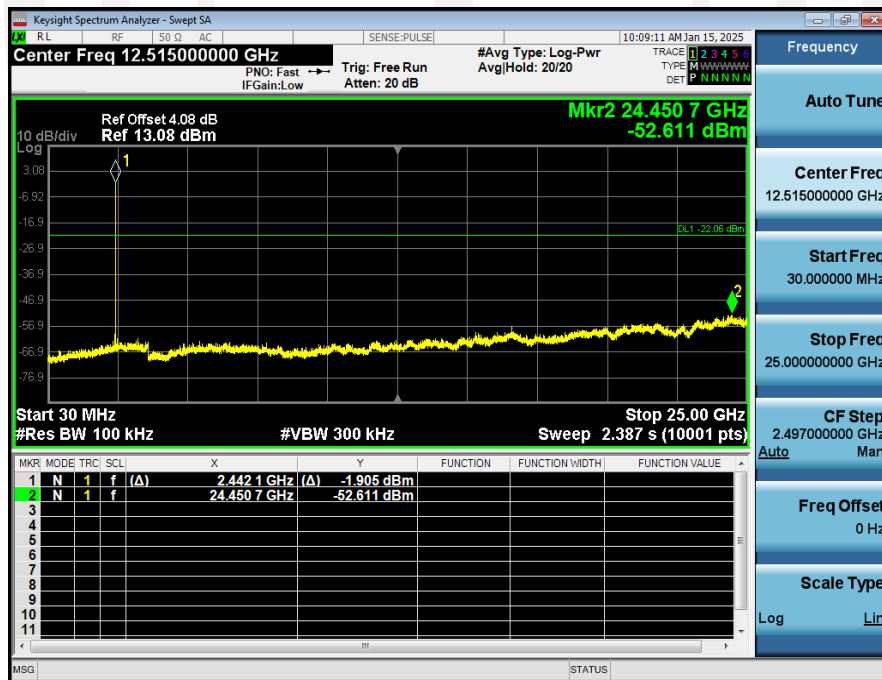
2_Spurious_Emissions_NVNT_ANT1_2-DH1_2402_00



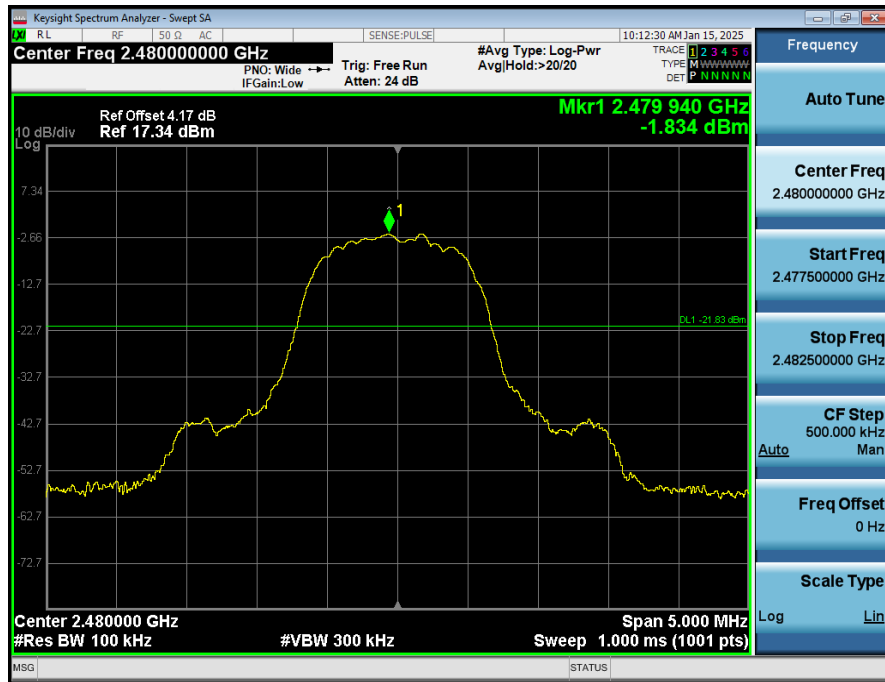
1_Reference_Level_NVNT_ANT1_2-DH1_2441_00



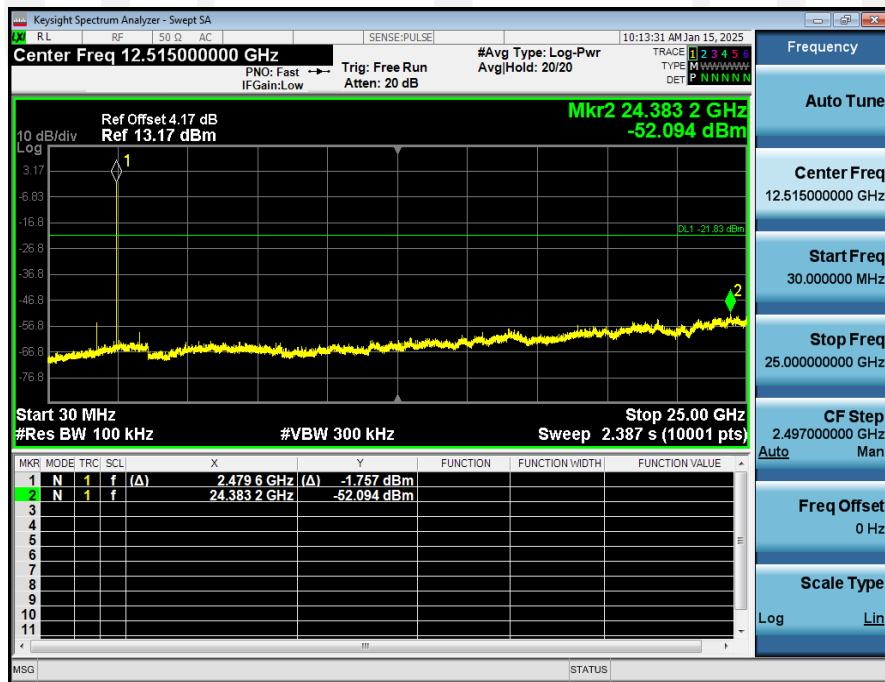
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1_Reference_Level_NVNT_ANT1_2-DH1_2480_00



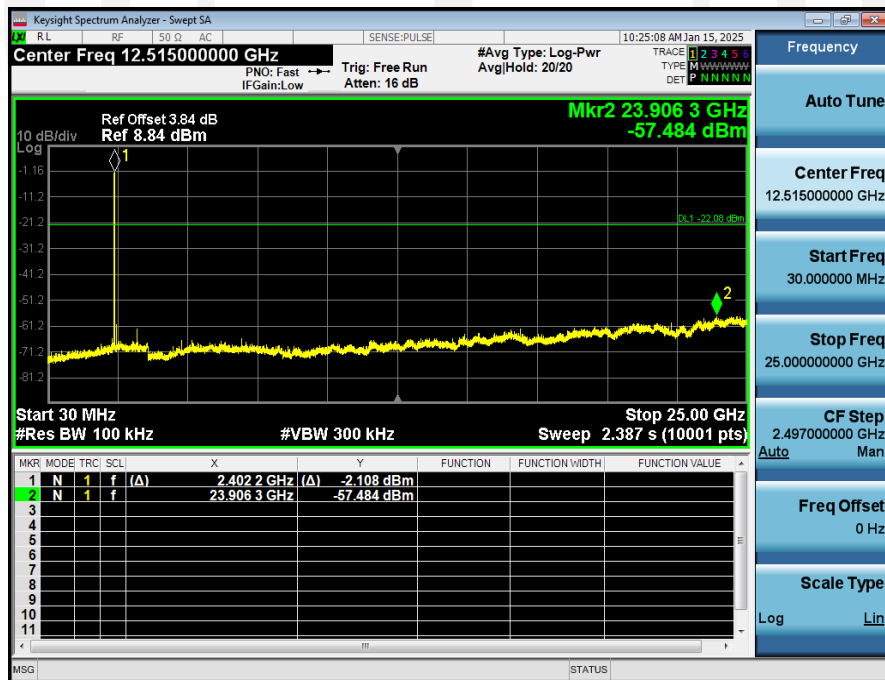
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1_Reference_Level_NVNT_ANT1_3-DH1_2402_00



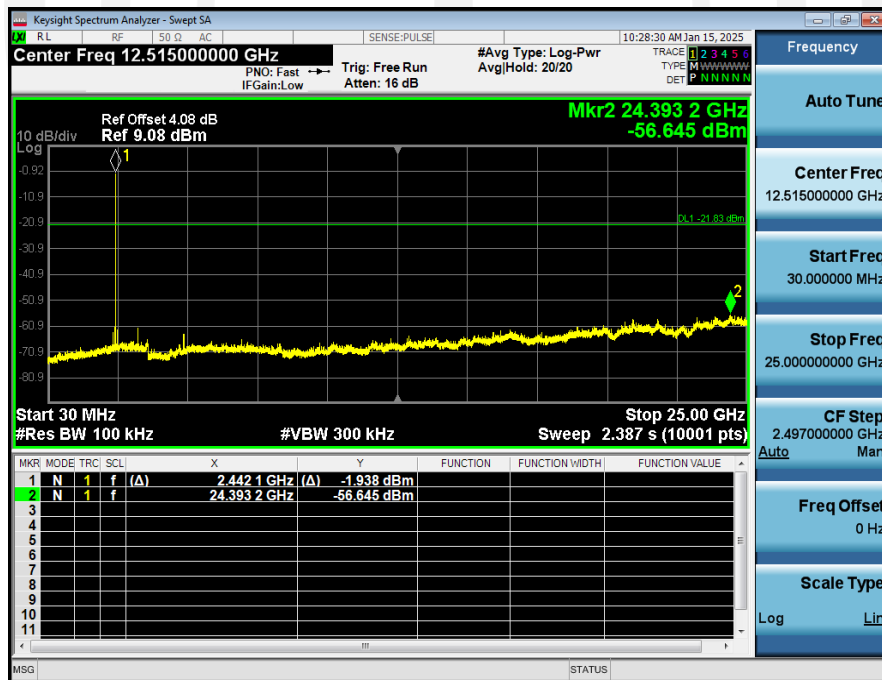
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1_Reference_Level_NVNT_ANT1_3-DH1_2441_00



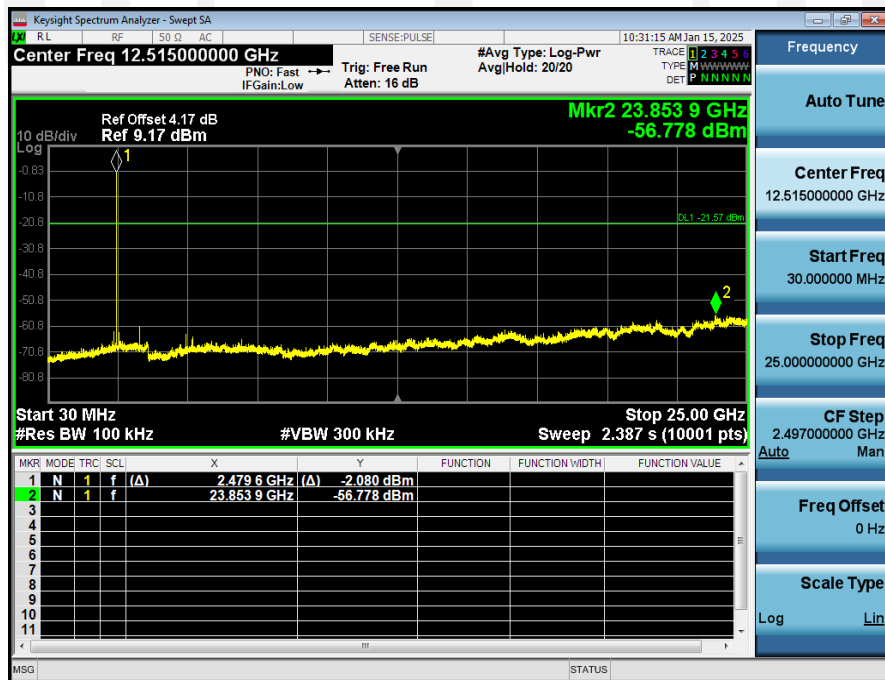
2_Spurious_Emissions_NVNT_ANT1_3-DH1_2441_00



1_Reference_Level_NVNT_ANT1_3-DH1_2480_00



2_Spurious_Emissions_NVNT_ANT1_3-DH1_2480_00



9. Radiated Emissions

9.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

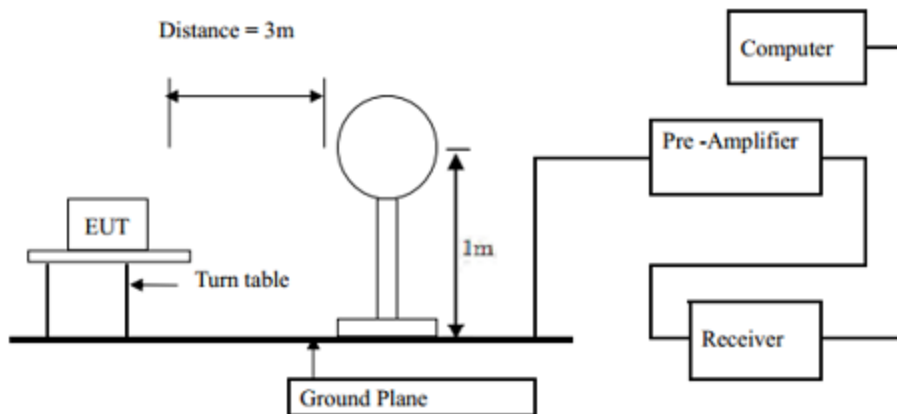
15.209 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009-0.490	300	2400/F(KHz)	/
0.490-1.705	30	24000/F(KHz)	/
1.705-30	30	30	29.5
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

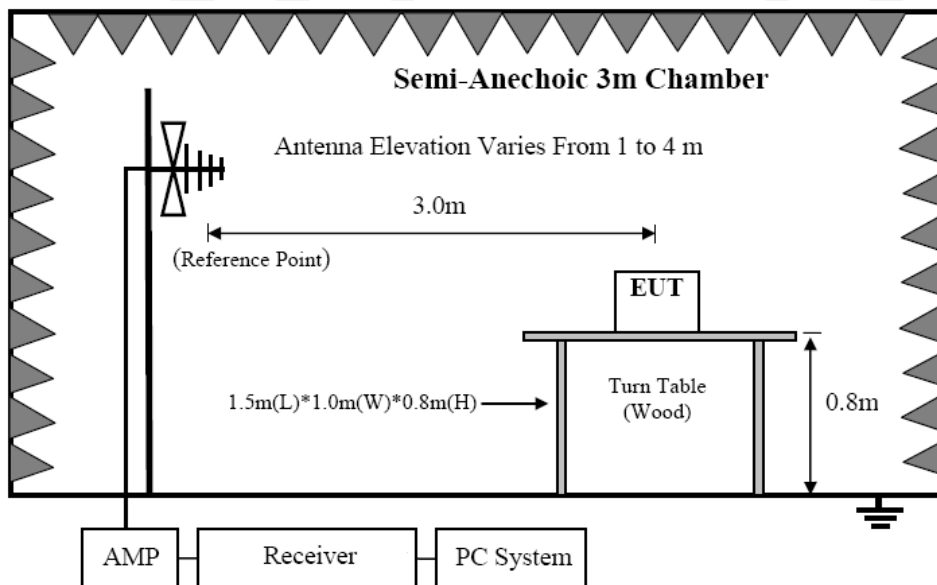
Note: The peak limit is 20 dB higher than the average limit

9.2. Block Diagram of Test setup

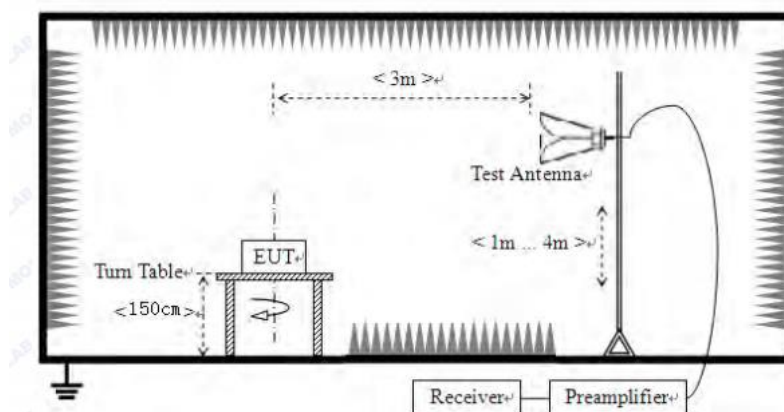
9.2.1 In 3m Anechoic Chamber Test Setup Diagram for below 30MHz



9.2.1 In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



8.2.2 In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

9.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.
- (2) Setup EUT and simulator
- (3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.
 - (a) Change work frequency or channel of device if practicable.
 - (b) Change modulation type of device if practicable.
 - (c) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions
- (4) Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated
- (5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 :2013on Radiated Emission test.
- (6) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure.

9.4. Test Results

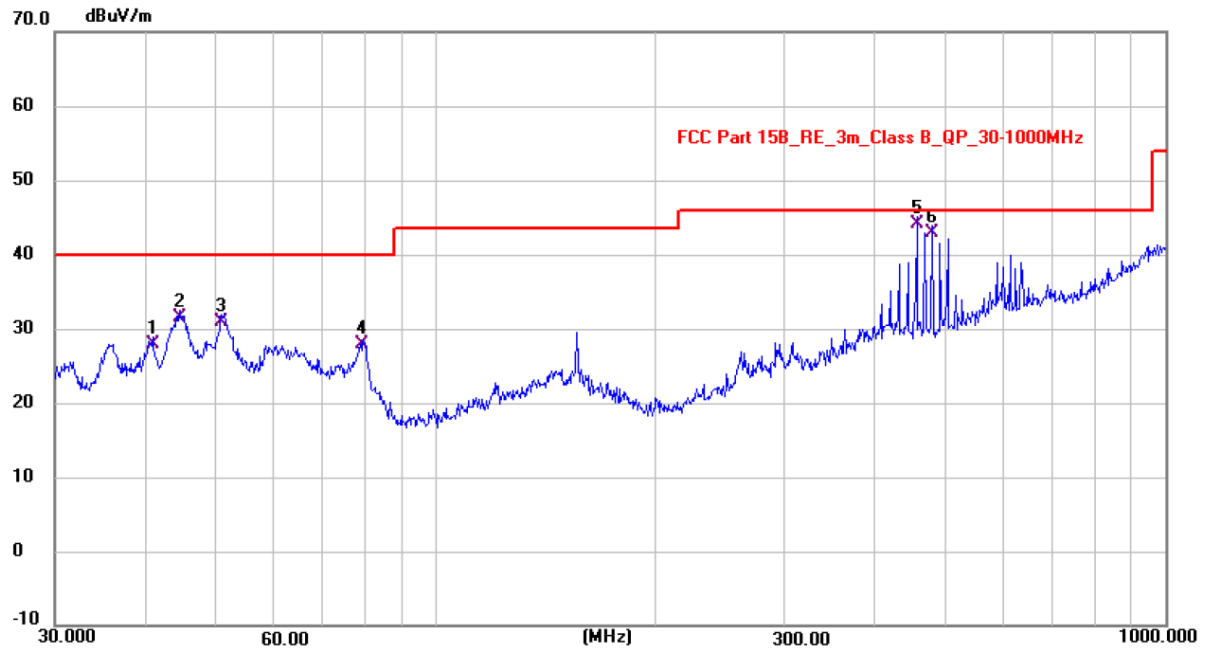
We have scanned from 9kHz to the 10th harmonic of the EUT's highest frequency.

Detailed information please see the following page.

From 9KHz to 30MHz:	
Test Date : 2025.1.8	Temperature : 24°C
Test Engineer : Jensen Wang	Humidity : 56%
Test Mode : GFSK, $\pi/4$ DQPSK, 8 DPSK mode	
Test Results : PASS	
Note:	The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

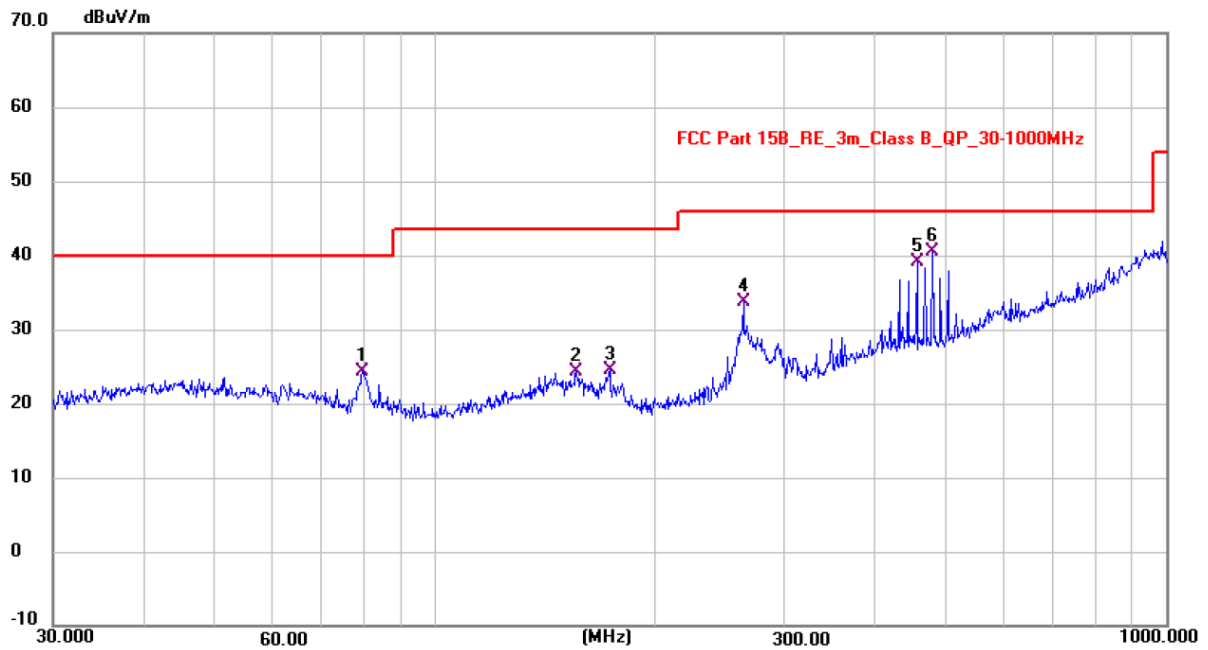
From 30MHz to 1000MHz:	
Test Date : 2025.1.14	Temperature : 24°C
Test Engineer : Jensen Wang	Humidity : 56%
Test Mode : GFSK, $\pi/4$ DQPSK, 8 DPSK mode	
Test Results : PASS	
Note:	1. The test results are listed in next pages. 2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out. 3. All modes have been tested, and only worst data of GFSK mode, Channel 2402MHz (DC 3.7V) was listed in this report.



Polarization: Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	40.8625	13.35	14.54	27.89	40.00	-12.11	QP
2	44.5087	17.10	14.37	31.47	40.00	-8.53	QP
3	50.8751	16.84	14.05	30.89	40.00	-9.11	QP
4	79.3469	18.26	9.63	27.89	40.00	-12.11	QP
5 *	456.1057	25.09	19.09	44.18	46.00	-1.82	QP
6	480.1065	23.25	19.67	42.92	46.00	-3.08	QP

Note: Level = Reading + Factor Margin = Level - Limit

Polarization: Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	79.6954	14.76	9.53	24.29	40.00	-15.71	QP
2	156.0468	10.03	14.26	24.29	43.50	-19.21	QP
3	173.2810	11.40	13.05	24.45	43.50	-19.05	QP
4	264.0504	19.97	13.79	33.76	46.00	-12.24	QP
5	456.1057	20.07	19.09	39.16	46.00	-6.84	QP
6 *	480.1065	20.84	19.67	40.51	46.00	-5.49	QP

Note: Level = Reading + Factor Margin = Level - Limit

From 1GHz to 25GHz:	
Test Date : 2025.1.14	Temperature : 24°C
Test Engineer : Jensen Wang	Humidity : 56%
Test Mode : GFSK, $\pi/4$ DQPSK, 8 DPSK mode	
Test Results : PASS	
Note:	1. The test results are listed in next pages. 2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out. 3. If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.

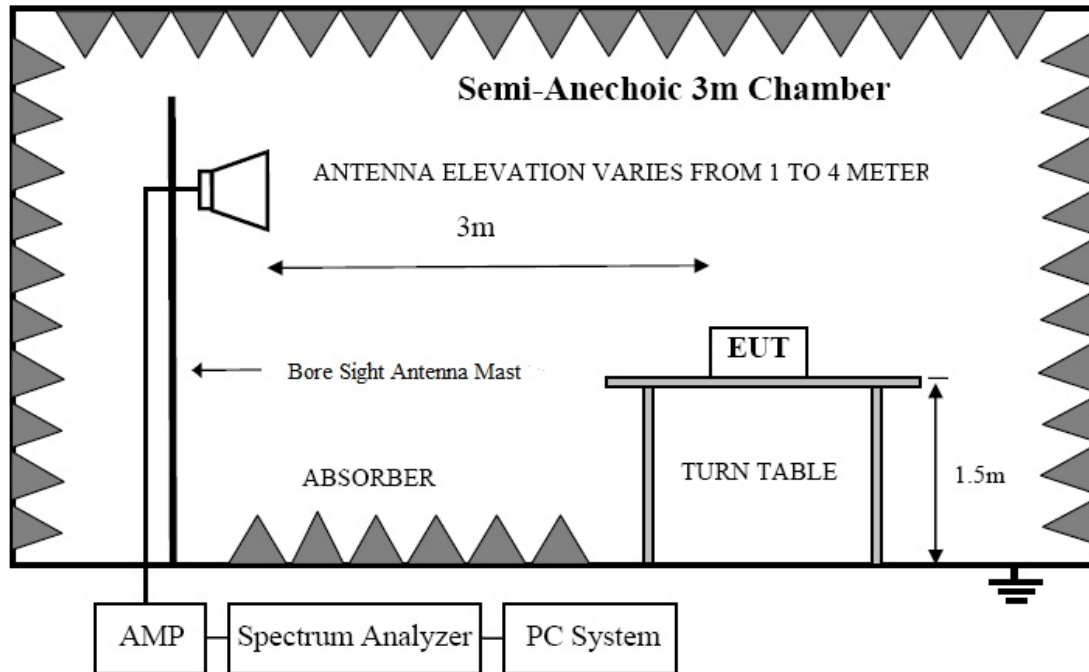
Test Mode : GFSK TX Low								
No.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	4804	V	57.77	-13.25	44.52	74.00	-29.48	Peak
2	4804	V	48.70	-13.25	35.45	54.00	-18.55	Avg
3	7206	--	--	--	--	--	--	--
4	9608	--	--	--	--	--	--	--
5	4804	H	58.12	-13.25	44.87	74.00	-29.13	Peak
6	4804	H	46.32	-13.25	33.07	54.00	-20.93	Avg
7	7206	--	--	--	--	--	--	--
8	9608	--	--	--	--	--	--	--
Test Mode : GFSK TX Mid								
1	4882	V	58.60	-12.98	45.62	74.00	-28.38	Peak
2	4882	V	47.67	-12.98	34.69	54.00	-19.31	Avg
3	7323	--	--	--	--	--	--	--
4	9764	--	--	--	--	--	--	--
5	4882	H	56.94	-12.98	43.96	74.00	-30.04	Peak
6	4882	H	46.60	-12.98	33.62	54.00	-20.38	Avg
7	7323	--	--	--	--	--	--	--
8	9764	--	--	--	--	--	--	--
Test Mode : GFSK TX High								
1	4960	V	58.90	-12.70	46.20	74.00	-27.80	Peak
2	4960	V	48.44	-12.70	35.74	54.00	-18.26	Avg
3	7440	--	--	--	--	--	--	--
4	9920	--	--	--	--	--	--	--
5	4960	H	56.20	-12.70	43.50	74.00	-30.50	Peak
6	4960	H	47.33	-12.70	34.63	54.00	-19.37	Avg
7	7440	--	--	--	--	--	--	--
8	9920	--	--	--	--	--	--	--
Note:	1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit.							

Test Mode : $\pi/4$ DQPSK TX Low								
No.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	4804	V	57.70	-13.25	44.45	74.00	-29.55	Peak
2	4804	V	47.40	-13.25	34.15	54.00	-19.85	Avg
3	7206	--	--	--	--	--	--	--
4	9608	--	--	--	--	--	--	--
5	4804	H	54.91	-13.25	41.66	74.00	-32.34	Peak
6	4804	H	45.49	-13.25	32.24	54.00	-21.76	Avg
7	7206	--	--	--	--	--	--	--
8	9608	--	--	--	--	--	--	--
Test Mode : $\pi/4$ DQPSK TX Mid								
1	4882	V	59.90	-12.98	46.92	74.00	-27.08	Peak
2	4882	V	48.34	-12.98	35.36	54.00	-18.64	Avg
3	7323	--	--	--	--	--	--	--
4	9764	--	--	--	--	--	--	--
5	4882	H	55.99	-12.98	43.01	74.00	-30.99	Peak
6	4882	H	45.26	-12.98	32.28	54.00	-21.72	Avg
7	7323	--	--	--	--	--	--	--
8	9764	--	--	--	--	--	--	--
Test Mode : $\pi/4$ DQPSK TX High								
1	4960	V	58.29	-12.70	45.59	74.00	-28.41	Peak
2	4960	V	50.47	-12.70	37.77	54.00	-16.23	Avg
3	7440	--	--	--	--	--	--	--
4	9920	--	--	--	--	--	--	--
5	4960	H	56.16	-12.70	43.46	74.00	-30.54	Peak
6	4960	H	47.48	-12.70	34.78	54.00	-19.22	Avg
7	7440	--	--	--	--	--	--	--
8	9920	--	--	--	--	--	--	--
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit.								

Test Mode : 8 DPSK TX Low								
No.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	4804	V	56.80	-13.25	43.55	74.00	-30.45	Peak
2	4804	V	47.22	-13.25	33.97	54.00	-20.03	Avg
3	7206	--	--	--	--	--	--	--
4	9608	--	--	--	--	--	--	--
5	4804	H	56.93	-13.25	43.68	74.00	-30.32	Peak
6	4804	H	45.30	-13.25	32.05	54.00	-21.95	Avg
7	7206	--	--	--	--	--	--	--
8	9608	--	--	--	--	--	--	--
Test Mode : 8 DPSK TX Mid								
1	4882	V	57.39	-12.98	44.41	74.00	-29.59	Peak
2	4882	V	49.95	-12.98	36.97	54.00	-17.03	Avg
3	7323	--	--	--	--	--	--	--
4	9764	--	--	--	--	--	--	--
5	4882	H	54.60	-12.98	41.62	74.00	-32.38	Peak
6	4882	H	47.69	-12.98	34.71	54.00	-19.29	Avg
7	7323	--	--	--	--	--	--	--
8	9764	--	--	--	--	--	--	--
Test Mode : 8 DPSK TX High								
1	4960	V	58.37	-12.70	45.67	74.00	-28.33	Peak
2	4960	V	49.10	-12.70	36.40	54.00	-17.60	Avg
3	7440	--	--	--	--	--	--	--
4	9920	--	--	--	--	--	--	--
5	4960	H	56.24	-12.70	43.54	74.00	-30.46	Peak
6	4960	H	46.51	-12.70	33.81	54.00	-20.19	Avg
7	7440	--	--	--	--	--	--	--
8	9920	--	--	--	--	--	--	--
Note:	1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit.							

10. Band Edge Test

10.1. Block Diagram of Test Setup



10.2. Test Limit

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)).

10.3. Test Procedure

Refer to ANSI C 63.10, Clause 6.10.

All restriction band and non- restriction band have been tested, only worse case is reported.

10.4. Test Results

Test Date	: 2025.1.14	Temperature	: 24°C
Test Engineer	: Jensen Wang	Humidity	: 56%
Test Results	: PASS		

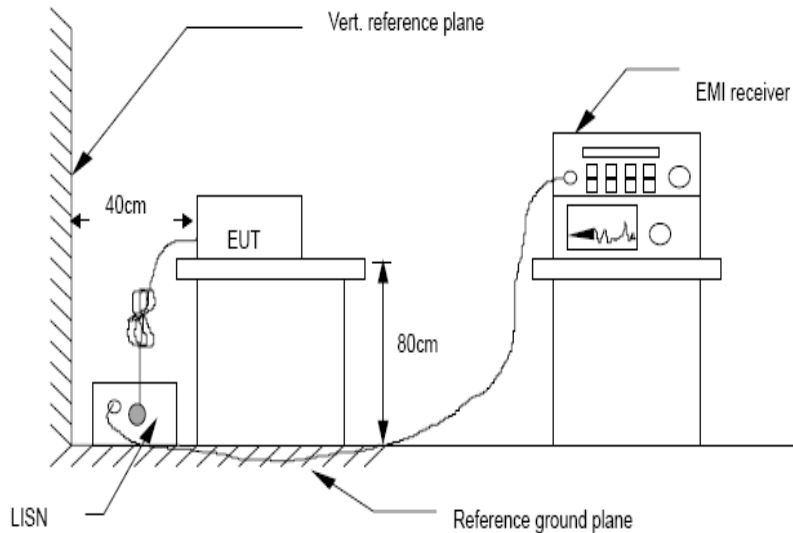
Frequency Range : 2310MHz~2410MHz								
Test Mode : GFSK TX 2402MHz								
No.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	58.50	-20.45	38.05	74.00	-35.95	Peak
2	2390	H	--	-20.45	--	54.00	--	Avg
3	2400	H	62.16	-20.41	41.75	74.00	-32.25	Peak
4	2400	H	--	-20.41	--	54.00	--	Avg
1	2390	V	63.90	-20.45	43.45	74.00	-30.55	Peak
2	2390	V	--	-20.45	--	54.00	--	Avg
3	2400	V	64.00	-20.41	43.59	74.00	-30.41	Peak
4	2400	V	--	-20.41	--	54.00	--	Avg
Frequency Range : 2450MHz~2550MHz								
Test Mode : GFSK TX 2480MHz								
1	2483.5	H	62.48	-20.15	42.33	74.00	-31.67	Peak
2	2483.5	H	--	-20.15	--	54.00	--	Avg
1	2483.5	V	63.60	-20.15	43.45	74.00	-30.55	Peak
2	2483.5	V	--	-20.15	--	54.00	--	Avg
Note:								
1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.								
2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.								
Result=Reading + Correct Factor.								
Margin= Result-Limit.								
3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

Frequency Range : 2310MHz~2410MHz								
Test Mode : $\pi/4$ DQPSK TX 2402MHz								
No.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	59.94	-20.45	39.49	74.00	-34.51	Peak
2	2390	H	--	-20.45	--	54.00	--	Avg
3	2400	H	62.27	-20.41	41.86	74.00	-32.14	Peak
4	2400	H	--	-20.41	--	54.00	--	Avg
1	2390	V	62.77	-20.45	42.32	74.00	-31.68	Peak
2	2390	V	--	-20.45	--	54.00	--	Avg
3	2400	V	64.10	-20.41	43.69	74.00	-30.31	Peak
4	2400	V	--	-20.41	--	54.00	--	Avg
Frequency Range : 2450MHz~2550MHz								
Test Mode : $\pi/4$ DQPSK TX 2480MHz								
1	2483.5	H	63.61	-20.15	43.46	74.00	-30.54	Peak
2	2483.5	H	--	-20.15	--	54.00	--	Avg
1	2483.5	V	66.48	-20.15	46.33	74.00	-27.67	Peak
2	2483.5	V	--	-20.15	--	54.00	--	Avg
Note:	1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.							

Frequency Range : 2310MHz~2410MHz								
Test Mode : 8 DPSK TX 2402MHz								
No.	Freq MHz	Polarity	Reading (dBUV/m)	Correct Factor	Result (dBUV/m)	Limit (dBUV/m)	Margin	Remark
1	2390	H	58.05	-20.45	37.60	74.00	-36.40	Peak
2	2390	H	--	-20.45	--	54.00	--	Avg
3	2400	H	63.41	-20.41	43.00	74.00	-31.00	Peak
4	2400	H	--	-20.41	--	54.00	--	Avg
1	2390	V	61.65	-20.45	41.20	74.00	-32.80	Peak
2	2390	V	--	-20.45	--	54.00	--	Avg
3	2400	V	62.53	-20.41	42.12	74.00	-31.88	Peak
4	2400	V	--	-20.41	--	54.00	--	Avg
Frequency Range : 2450MHz~2550MHz								
Test Mode : 8 DPSK TX 2480MHz								
1	2483.5	H	61.74	-20.15	41.59	74.00	-32.41	Peak
2	2483.5	H	--	-20.15	--	54.00	--	Avg
1	2483.5	V	63.22	-20.15	43.07	74.00	-30.93	Peak
2	2483.5	V	--	-20.15	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

11. Power Line Conducted Emissions

11.1. Block Diagram of Test Setup



11.2. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

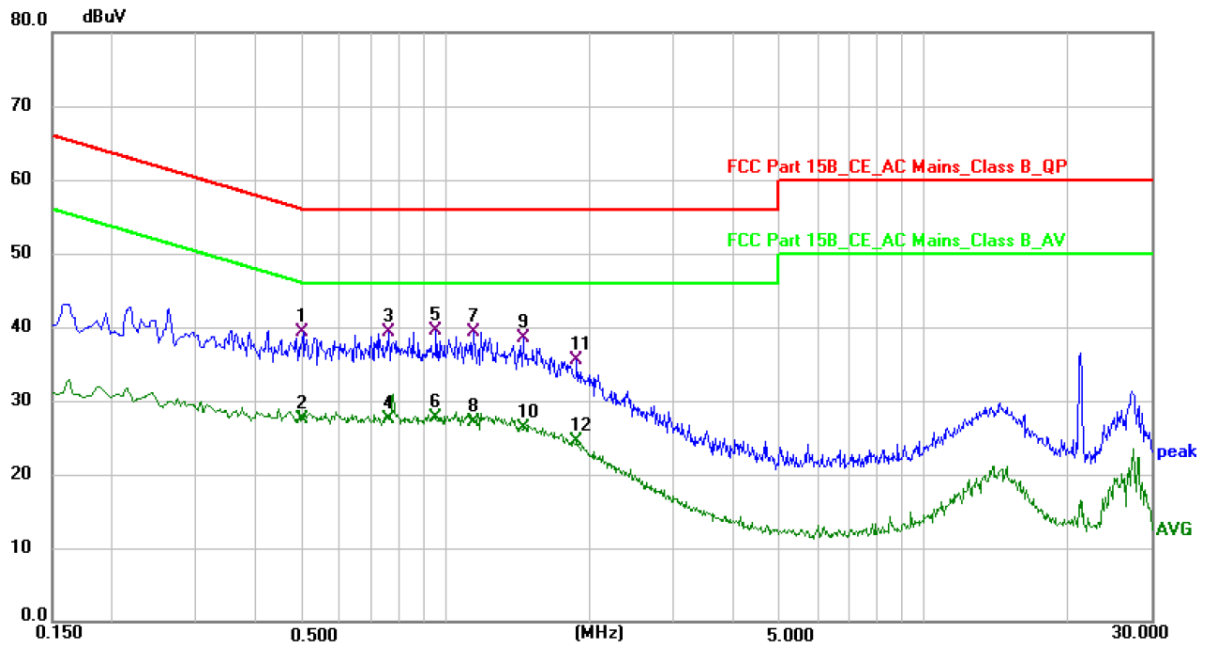
2. The lower limit shall apply at the transition frequencies.

11.3. Test Procedure

- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N2), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013on conducted Emission test.
- (4) The bandwidth of test receiver is set at 10KHz.
- (5) The frequency range from 150 KHz to 30MHz is checked.

11.4. Test Results

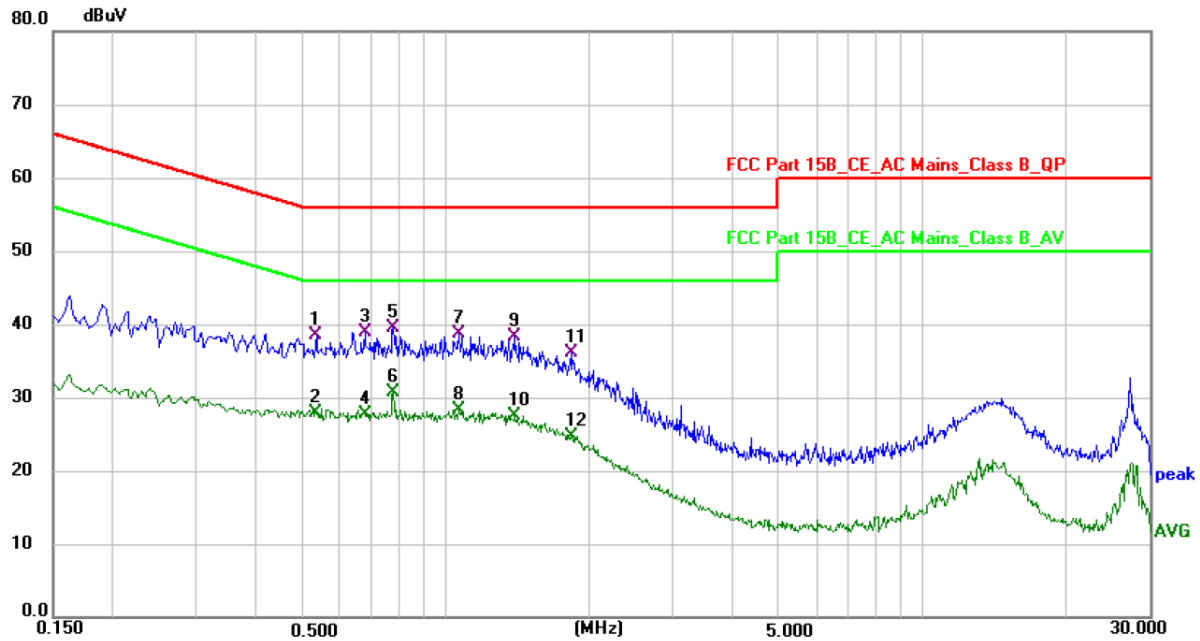
Test Date : 2025.1.8		Temperature : 24°C
Test Engineer : Jensen Wang		Humidity : 56%
Test Mode : GFSK mode		
Test Results : PASS		
Note:	1. The test results are listed in next pages. 2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out. 3. If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out. 4. All modes have been tested, and only worst data of GFSK mode, Channel 2402MHz (AC 120V/ 60Hz) was listed in this report.	

Polarization: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.5020	29.45	9.91	39.36	56.00	-16.64	QP
2	0.5020	17.64	9.91	27.55	46.00	-18.45	AVG
3	0.7620	29.96	9.43	39.39	56.00	-16.61	QP
4	0.7620	17.98	9.43	27.41	46.00	-18.59	AVG
5 *	0.9580	30.02	9.41	39.43	56.00	-16.57	QP
6	0.9580	18.36	9.41	27.77	46.00	-18.23	AVG
7	1.1460	29.96	9.41	39.37	56.00	-16.63	QP
8	1.1460	17.78	9.41	27.19	46.00	-18.81	AVG
9	1.4500	29.01	9.40	38.41	56.00	-17.59	QP
10	1.4500	16.82	9.40	26.22	46.00	-19.78	AVG
11	1.8860	26.16	9.39	35.55	56.00	-20.45	QP
12	1.8860	15.15	9.39	24.54	46.00	-21.46	AVG

Note: Level = Reading + Factor Margin = Level - Limit

Polarization: N



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.5340	28.76	9.78	38.54	56.00	-17.46	QP
2	0.5340	18.05	9.78	27.83	46.00	-18.17	AVG
3	0.6780	29.09	9.78	38.87	56.00	-17.13	QP
4	0.6780	17.99	9.78	27.77	46.00	-18.23	AVG
5	0.7780	29.76	9.71	39.47	56.00	-16.53	QP
6 *	0.7780	21.03	9.71	30.74	46.00	-15.26	AVG
7	1.0700	29.16	9.49	38.65	56.00	-17.35	QP
8	1.0700	18.82	9.49	28.31	46.00	-17.69	AVG
9	1.3980	28.95	9.41	38.36	56.00	-17.64	QP
10	1.3980	18.14	9.41	27.55	46.00	-18.45	AVG
11	1.8340	26.88	9.30	36.18	56.00	-19.82	QP
12	1.8340	15.49	9.30	24.79	46.00	-21.21	AVG

Note: Level = Reading + Factor Margin = Level - Limit

12. Antenna Requirements

12.1.Limit

For intentional device, according to FCC 47 CFR Section 15.203 and RSS-GEN, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

12.2.Result

The EUT antenna is internal antenna. It complies with the standard requirement.



13.Photos of test setup

Reference to the **appendix I Test Setup Photo** for details.

14.Photos of EUT

Reference to the **appendix II external photos** and **appendix III internal photos** for details.

----- END OF REPORT-----

