

TEST REPORT

Applicant:	Aurodi Corporation
Address of Applicant:	Suite 1100, 7887 E Belleview Ave, Denver, CO 80111, United States
Manufacturer:	Jingrui Inspire Co.,Ltd.
Address of Manufacturer:	RM1306, Block 3 (C-1), Runhui Science Park,18 Shenzhou Rd., Huangpu Dist., Guangzhou, Guangdong Prov., P.R. China, 510663
Product name:	Android Tab Gateway(NA)
Model(s):	VGW12W05-EC25-24G
Rating(s):	INPUT: AC 100-240V, 50/60 Hz, 1.5A OUTPUT: DC 12V 3A
Trademark:	V-MARK
Standards:	47 CFR PART 15 Subpart C section 15.247
FCC ID:	2BBTA-VGW12W0X24G
Data of Receipt:	2025-07-30
Date of Test:	2025-07-30~2026-01-22
Date of Issue:	2026-01-22
Test Result	Pass*

* In the configuration tested, the test item complied with the standards specified above.

Authorized for issue by:

Test by:

Reviewed by:

Jan.22, 2026

Chivas Tsang

Project Engineer

Jan.22, 2026

Victor Meng

Project Manager

Date

Name/Position

Signature

Date

Name/Position

Signature

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Testing Laboratory information:

Testing Laboratory Name: ITL Co., Ltd

Address : No. 8, Jinqianling Street 5, Huangjiang Town, Dongguan,
Guangdong, China

Testing location : Same as above

Tel : 0086-769-39001678

Fax : 0086-20-62824387

E-mail : itl@i-testlab.com

Possible test case verdicts:

- test case does not apply to the test object . : N/A
- test object does meet the requirement : P (Pass)
- test object does not meet the requirement . : F (Fail)

General remarks:

The test results presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report would be invalid test report without all the signatures of testing technician and approver.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

General product information:

This device doesn't support Resource Units characteristic.

1 Test Summary

Test	Test Requirement	Test method	Result
Antenna Requirement	FCC PART 15 C section 15.247 (c) and Section 15.203	FCC PART 15 C section 15.247 (c) and Section 15.203	PASS
Occupied Bandwidth (-20dB)	FCC PART 15 C section 15.247 (a)(1);	ANSI C63.10:2020	PASS
Carrier Frequencies Separated	FCC PART 15 C section 15.247(a)(1);	ANSI C63.10:2020	PASS
Hopping Channel Number	FCC PART 15 C section 15.247(a)(1)(iii)	ANSI C63.10:2020	PASS
Dwell Time	FCC PART 15 C section 15.247(a)(1)(iii);	ANSI C63.10:2020	PASS
Maximum Conducted Output Power	FCC PART 15 C section 15.247(b)(1);	ANSI C63.10:2020	PASS
Conducted Spurious Emission (30 MHz to 25 GHz)	FCC PART 15 C section 15.247(d);	ANSI C63.10:2020	PASS
Radiated Spurious Emission (9 kHz to 25 GHz)	FCC PART 15 C section 15.247(d);	ANSI C63.10:2020	PASS
Band Edges Measurement	FCC PART 15 C section 15.247 (d) &15.205	ANSI C63.10:2020	PASS
AC power-line conducted emissions	FCC PART 15 C section 15.207	ANSI C63.10:2020	PASS
Radiated Emissions which fall in the restricted bands	FCC PART 15 C section 15.209	ANSI C63.10:2020	PASS
Pseudorandom Frequency Hopping Sequence	47 CFR Part 15, Subpart C Section 5.247(b)(4)&TCB Exclusion List	ANSI C63.10:2020	PASS
Remark:			
N/A: not applicable. Refer to the relative section for the details. EUT: In this whole report EUT means Equipment Under Test. Tx: In this whole report Tx (or tx) means Transmitter. Rx: In this whole report Rx (or rx) means Receiver. RF: In this whole report RF means Radio Frequency. The detail version is ANSI C63.10:2020 in the whole report.			

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3 General Information

3.1 Client Information

Applicant: Aurodi Corporation

Address of Applicant: Suite 1100, 7887 E Belleview Ave, Denver, CO 80111, United States

3.2 General Description of E.U.T.

Name: Android Tab Gateway(NA)

Model No.: VGW12W05-EC25-24G

Operating Frequency: 2402 MHz to 2480 MHz

79 channels

Channels:

channel	Frequency	channel	Frequency	channel	Frequency	channel	Frequency
1	2402	21	2422	41	2442	61	2462
2	2403	22	2423	42	2443	62	2463
3	2404	23	2424	43	2444	63	2464
4	2405	24	2425	44	2445	64	2465
5	2406	25	2426	45	2446	65	2466
6	2407	26	2427	46	2447	66	2467
7	2408	27	2428	47	2448	67	2468
8	2409	28	2429	48	2449	68	2469
9	2410	29	2430	49	2450	69	2470
10	2411	30	2431	50	2451	70	2471
11	2412	31	2432	51	2452	71	2472
12	2413	32	2433	52	2453	72	2473
13	2414	33	2434	53	2454	73	2474
14	2415	34	2435	54	2455	74	2475
15	2416	35	2436	55	2456	75	2476
16	2417	36	2437	56	2457	76	2477
17	2418	37	2438	57	2458	77	2478
18	2419	38	2439	58	2459	78	2479
19	2420	39	2440	59	2460	79	2480
20	2421	40	2441	60	2461		

Modulation Technique: Frequency Hopping Spread Spectrum (FHSS)

Type of Modulation 16QAM/QPSK/BPSK

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Dwell time Per channel is less than 0.4s.
Antenna gain: FPC Antenna with Max gain -2.94 dBi

3.3 Details of E.U.T.

EUT Power Supply: INPUT: AC 100-240V, 50/60 Hz, 1.5A
OUTPUT: DC 12V 3A
The program used to control the EUT for staying in continuous transmitting and
Test mode: receiving mode is programmed. Channel lowest (2402MHz), middle
(2441MHz) and highest (2480MHz) are chosen for full testing.

3.4 Description of Support Units

The EUT has been tested as an independent unit for fixed frequency by testing lab.

Details of Support Equipment(s)

Description	Manufacturer	Model No.	Connection	Working state
/	/	/	/	/

3.5 Test Location

All tests were performed at:

ITL Co., Ltd

No. 8 Jinqianling Street 5, Huangjiang Town, Dongguan, Guangdong, 523757 P.R.C.

0086-769-39001678

itl@i-testlab.com

No tests were sub-contracted.

3.6 Deviation from Standards

None.

3.7 Abnormalities from Standard Conditions

None.

3.8 Other Information Requested by the Customer

None.

3.9 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS Lab code:L9342**
- **FCC Designation No.:CN5035**
- **IC Registration NO.: 12593A**
- **NVLAP LAB CODE: 600199-0**

3.10 Measurement Uncertainty

The below measurement uncertainties given below are based on a 95% confidence level (base on a coverage factor (k=2).)

Parameter	Uncertainty
Radio frequency	2.25%
total RF power, conducted	±1.34 dB
RF power density, conducted	±1.49 dB
All emissions, radiated	±2.72 dB
Temperature	±5.02 dB
Humidity	±0.8°C
DC and low frequency voltages	±1.5 %
All emissions, conducted	±2.30 dB

4 Instruments Used during Test

No.	Test Equipment	Manufacturer	Model	Serial No.	Cal Data	Due Date
DGITL-115	50Ω Coaxial Cable	Mini-circuts	CBL	C001	2025.03.14	2026.03.14
DGITL-182	Test software	2.0.0.0	MTS 8310	/	/	/
DGITL-190	Filter	COM-MW	K6-2400-2483.5-100S5010-007	12230496	2025.01.10 2026.01.14	2026.01.09 2027.01.13
DGITL-191	Filter	COM-MW	K6-5150-5850-100S5010-003	12234382	2025.01.10 2026.01.14	2026.01.09 2027.01.13
DGITL-301	Semi-Anechoic chamber	ETS•Lindgren	9*6*6	CT000874-1181	2023.08.02	2026.08.02
DGITL-307	EMI test receiver	SCHWARZBECK	ESVS10	833616/003	2025.03.14	2026.03.13
DGITL-376	Wideband Radio Communication Tester	SCHWARZBECK	CMW500	LR114195	2025.03.14	2026.03.13
DGITL-349a	Vector Signal Generator	ROHDE&SCHWARZ	SMBV100A	259268	2025.03.14	2026.03.13
DGITL-194	Power Meter	MWRFTest	MW100-PSB	MW202006002	2025.03.14	2026.03.13
DGITL-306	Spectrum Analyzer	Agilent Technologies	N9010A	MY54200334	2025.03.14	2026.03.13
DGITL-352	Pre Amplifier	MInI-CIrcuits	ZFC-1000HX	SN292801110	2025.03.14	2026.03.13
DGITL-375	Spectrum Analyzer	SCHWARZBECK	FSV40-N	6625-01-588-5515	2025.03.14	2026.03.13
DGITL-309	Horn Antenna	ETS Lindgren	3117	SN00152265	2025.05.13	2026.05.12
DGITL-308	Bilog Antenna	ETS· Lindgren	3142E	156975	2025.05.13	2026.05.12
DGITL-350	Wideband Amplifier Super Ultra	MInI-CIrcuits	ZVA-183X-S+	SN986401426	2025.03.14	2026.03.12
DGITL-371	Pre Amplifier	teramicrowave	TALA-0040G35	18081001	2025.03.14	2026.03.12
DGITL-363	Active Loop Antenna	SCHWARZBECK	FMZB1519B	00062	2024.05.15	2026.05.14
DGITL-302	Shielded Room	ETS• Lindgren	8*4*3	CT09010	2023.08.02	2026.08.02
DGITL-304	L.I.S.N.#1	R&S	ESH3-Z5	100272	2025.03.13	2026.03.12

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5 Test Results

5.1 E.U.T. test conditions

Test Voltage: AC 120V, 60 Hz

Temperature: 20.0 -25.0 °C

Humidity: 38-50 % RH

Atmospheric Pressure: 1000 -1010 mbar

Test frequencies and frequency range: According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and, if required, reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

According to the 15.33 (a) For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in the following table:

Number of fundamental frequencies to be tested in EUT transmit band

Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
1 MHz or less	1	Middle
1 MHz to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

Frequency range of radiated emission measurements

Lowest frequency generated in the device	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz, whichever is lower
At or above 10 GHz to below 30 GHz	5th harmonic of highest fundamental frequency or to 100 GHz, whichever is lower
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz, whichever is lower, unless otherwise specified

EUT channels and frequencies list:

channel	Frequency	channel	Frequency	channel	Frequency	channel	Frequency
1	2402	21	2422	41	2442	61	2462
2	2403	22	2423	42	2443	62	2463
3	2404	23	2424	43	2444	63	2464
4	2405	24	2425	44	2445	64	2465
5	2406	25	2426	45	2446	65	2466
6	2407	26	2427	46	2447	66	2467
7	2408	27	2428	47	2448	67	2468
8	2409	28	2429	48	2449	68	2469
9	2410	29	2430	49	2450	69	2470
10	2411	30	2431	50	2451	70	2471
11	2412	31	2432	51	2452	71	2472
12	2413	32	2433	52	2453	72	2473
13	2414	33	2434	53	2454	73	2474
14	2415	34	2435	54	2455	74	2475
15	2416	35	2436	55	2456	75	2476
16	2417	36	2437	56	2457	76	2477
17	2418	37	2438	57	2458	77	2478
18	2419	38	2439	58	2459	78	2479

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19	2420	39	2440	59	2460	79	2480
20	2421	40	2441	60	2461		

Test frequencies are the Lowest Channel: 1 channel (2402 MHz), Middle Channel: 40 channel (2441 MHz) and Highest Channel: 79 channel (2478 MHz).

5.2 Antenna Requirement

Standard requirement

15.203 requirements:

For intentional device: According to 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.

15.247(c) (1) (I) requirement:

(I) Systems operating in the 2400-2483.5 MHz bands that are used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

5.2.1 Test Result (Antenna Requirement)

The antenna is a FPC Antenna and no consideration of replacement. The best-case gain of the antenna is -2.94 dBi.

Test Result: The unit does meet the FCC requirements.

5.3 Occupied Bandwidth

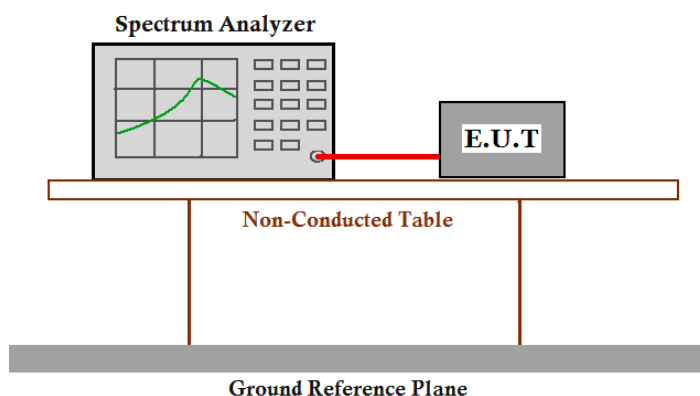
Test Requirement: FCC Part 15 C section 15.247

(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

Test Status: Test the EUT in continuous transmitting mode at the lowest, middle and highest Channel.

5.3.1 Test Configuration



Test Procedure:

1. The testing follows the Measurement Procedure of ANSI C63.10:2020 Section 11.9.2.2.4.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Use the following spectrum analyzer settings:
Set instrument center frequency to channel center frequency/Set span to at least 1.5 times the OBW /
RBW = 1% to 5% of the OBW, not to exceed 1 MHz. / Set VBW $\geq$ [3 x RBW]. /Detector: Peak / Sweep
time: Auto / Trace mode: Peak / Trace peak at least 100 traces in peak power (rms) mode.
5. Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges.
6. Record the measurement results in the test report.

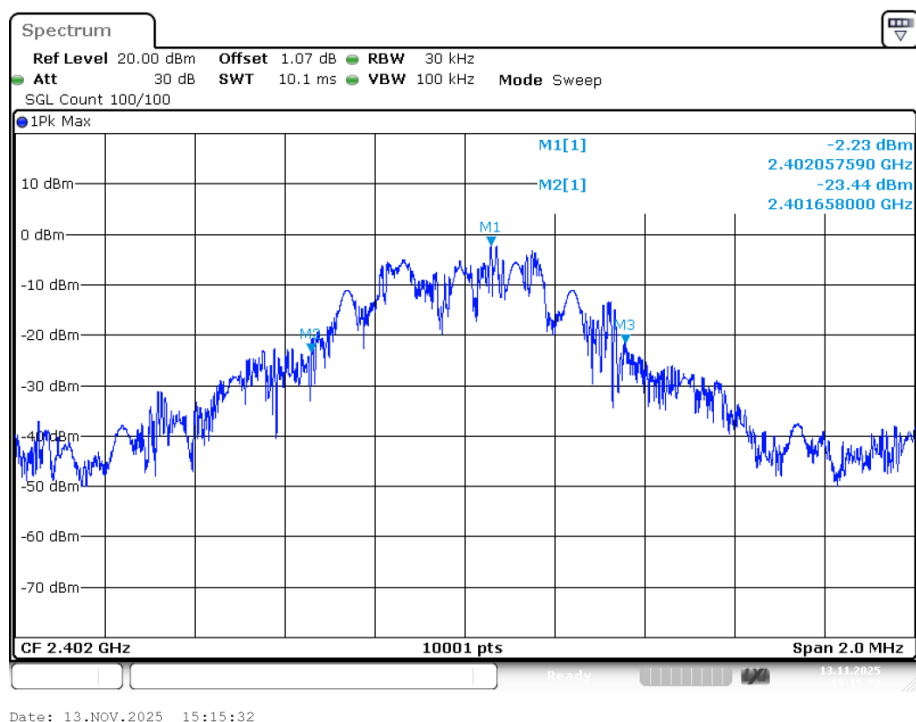
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5.3.2 Test Result (-20dB bandwidth)

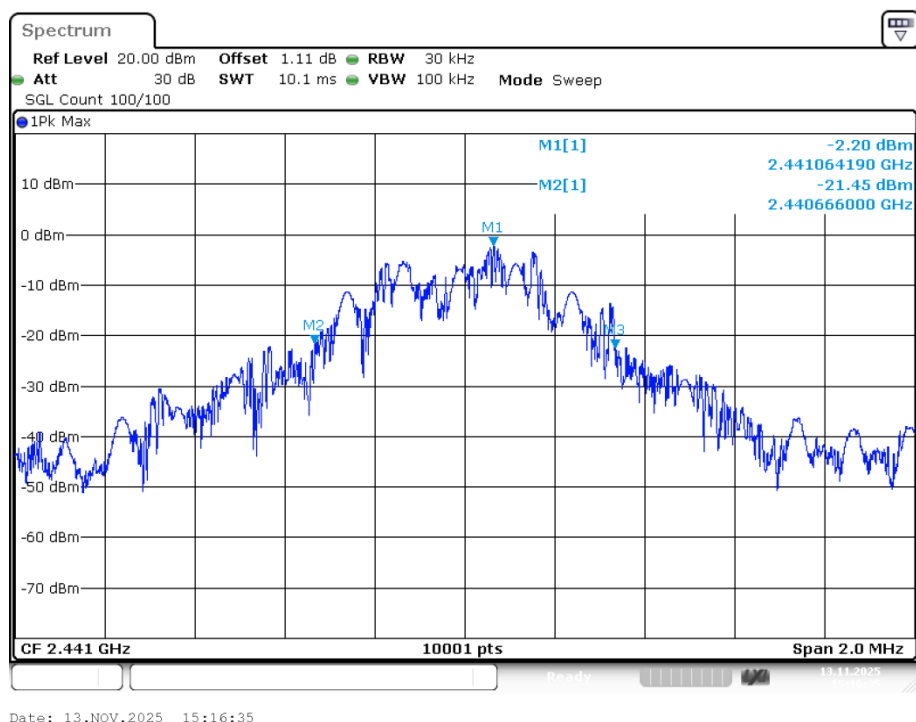
Test mode	Test Frequency (MHz)	-20dB bandwidth (MHz)	Test Result
DH5	2402	0.699	Pass
	2441	0.667	Pass
	2480	0.681	Pass
2DH5	2402	1.285	Pass
	2441	1.284	Pass
	2480	1.283	Pass
3DH5	2402	1.098	Pass
	2441	1.096	Pass
	2480	1.102	Pass

-20dB bandwidth:

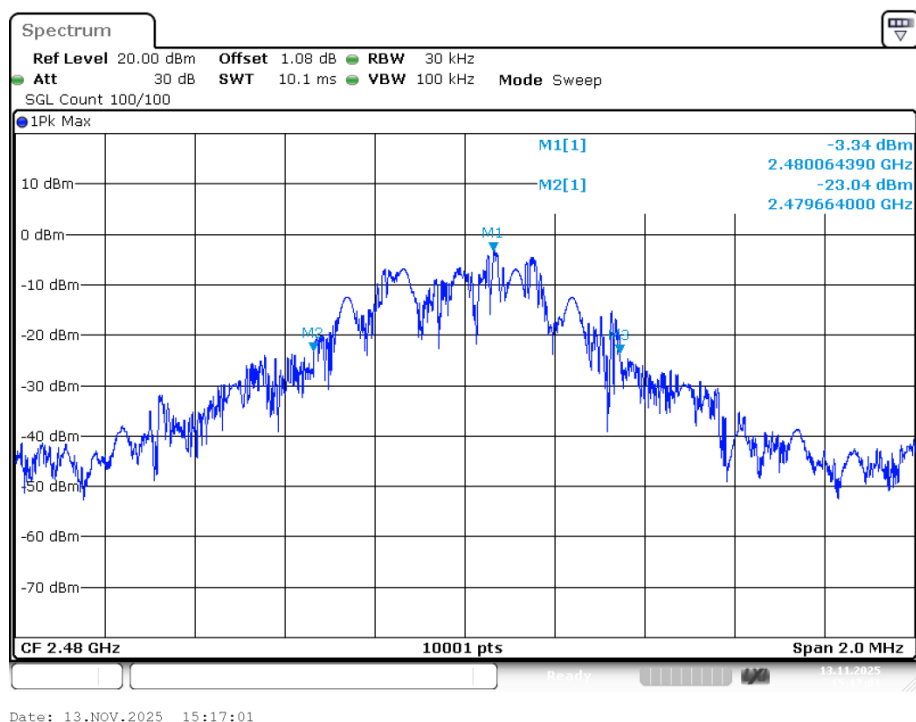
Result plot as follows:



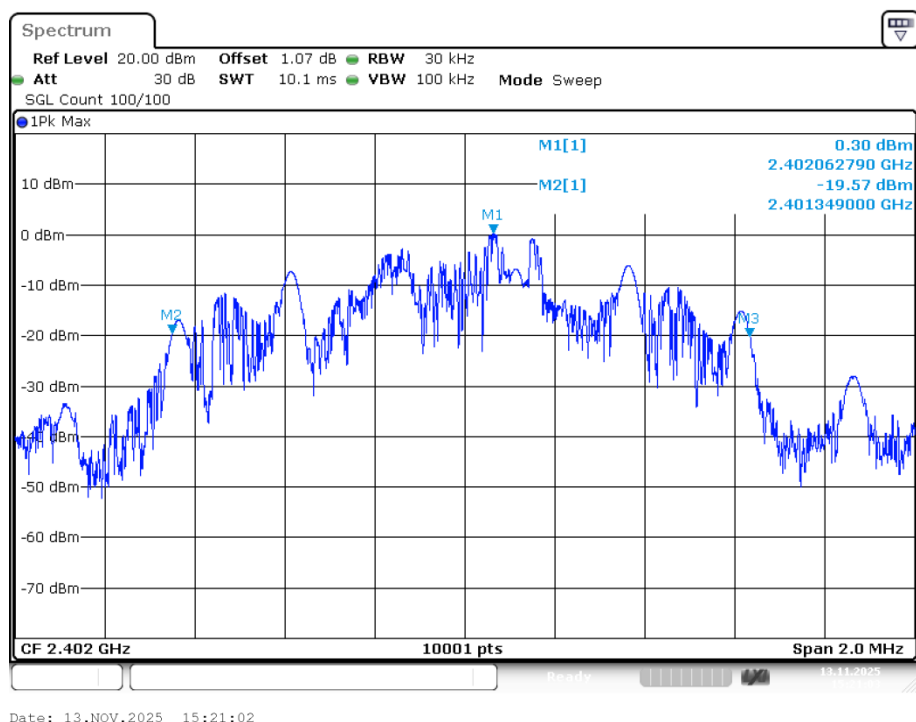
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



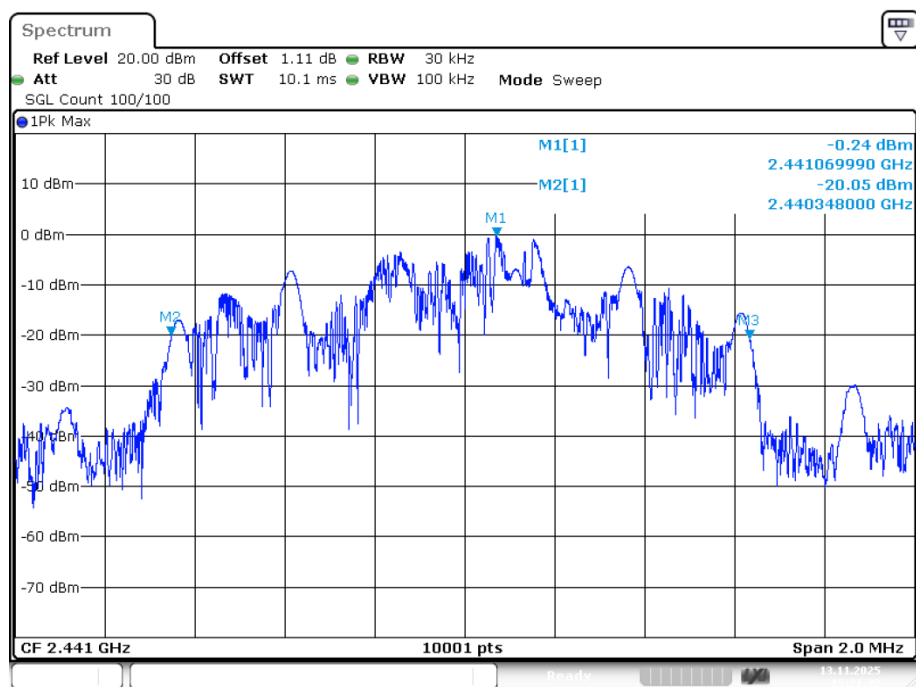
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



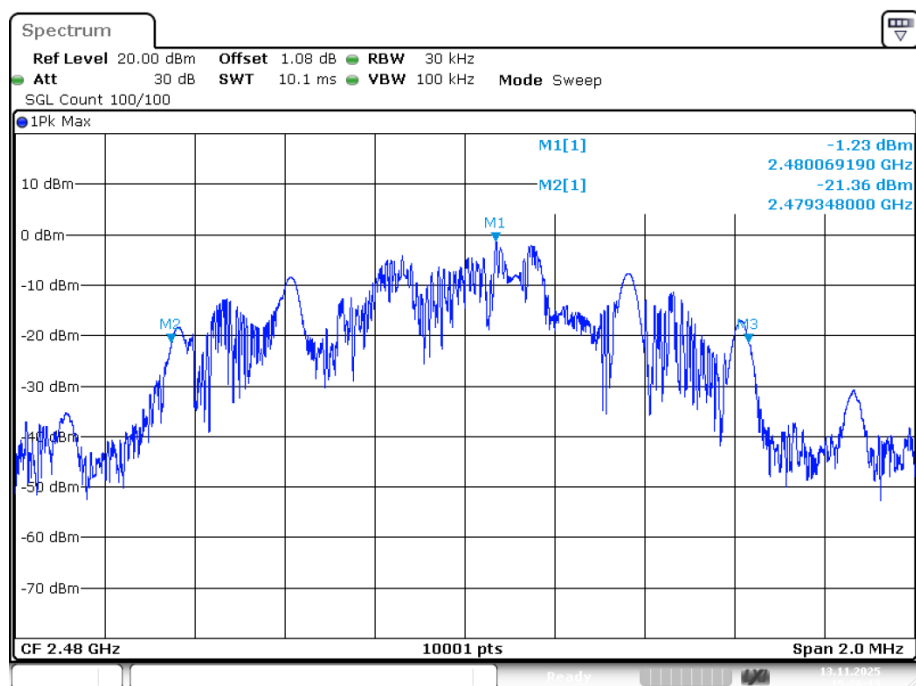
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

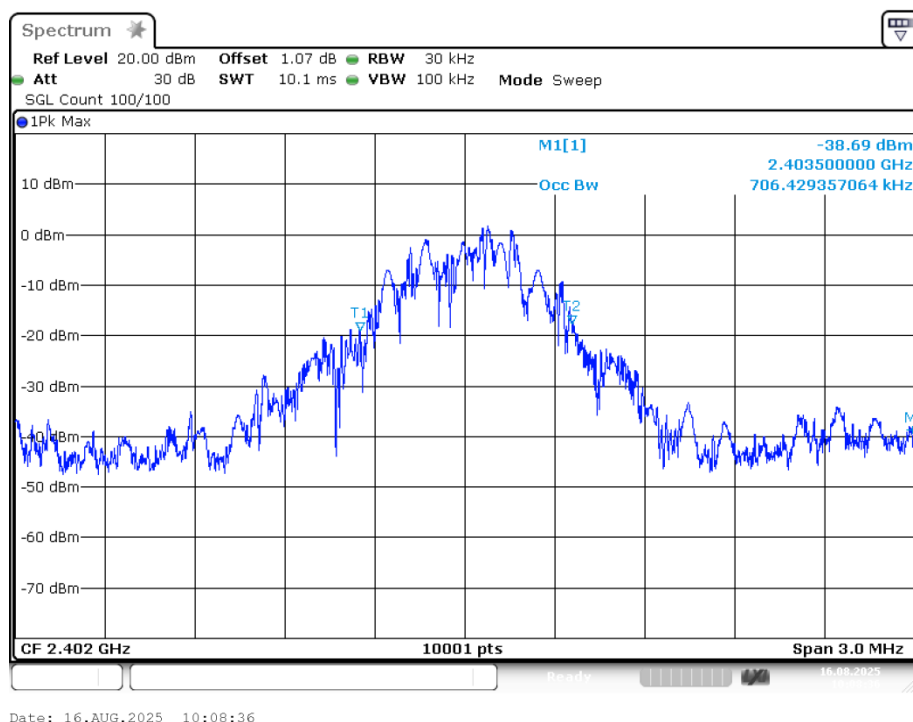
Test Result: The unit does meet the FCC requirements.

5.3.3 Test Result (99% power bandwidth)

Test mode	Test Frequency (MHz)	99% bandwidth (MHz)	Test Result
DH5	2402	0.706	Pass
	2441	0.76	Pass
	2480	0.726	Pass
2DH5	2402	1.234	Pass
	2441	1.244	Pass
	2480	1.246	Pass
3DH5	2402	1.073	Pass
	2441	1.028	Pass
	2480	1.077	Pass

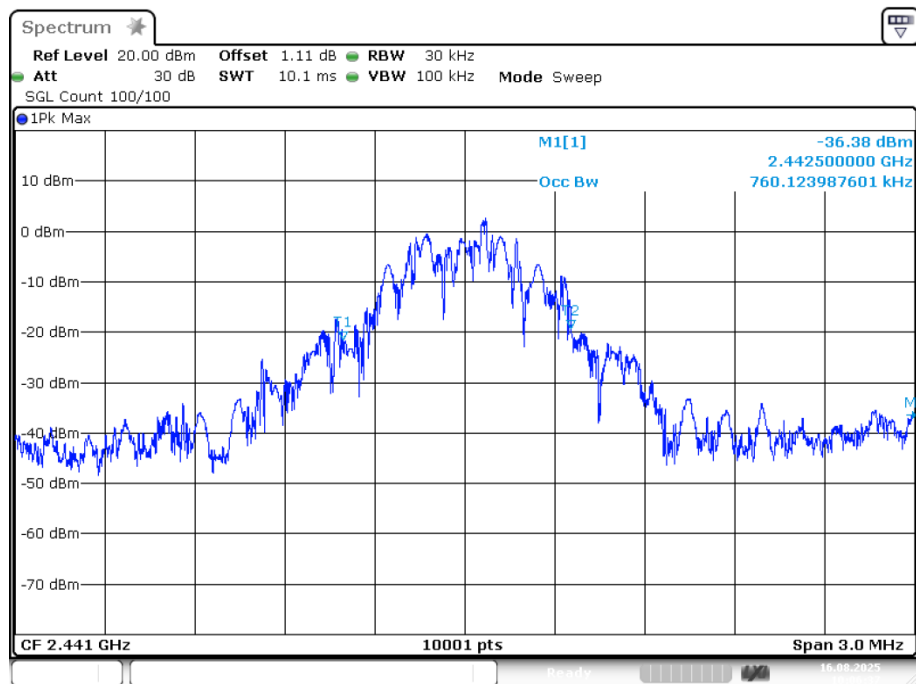
99% power bandwidth:

Result plot as follows:

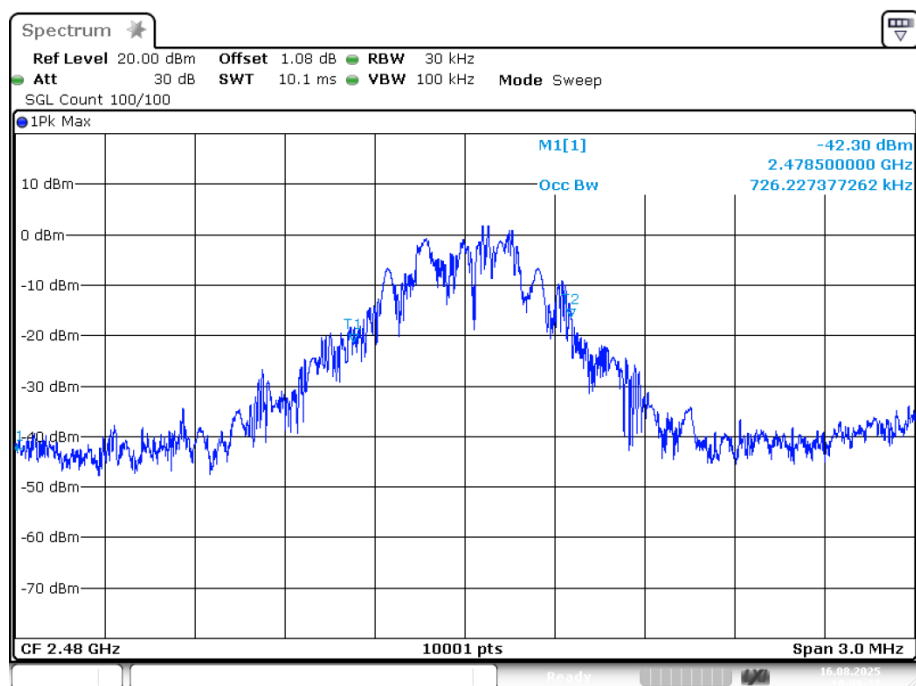


OBW NVNT 1-DH5 2402MHz Ant1

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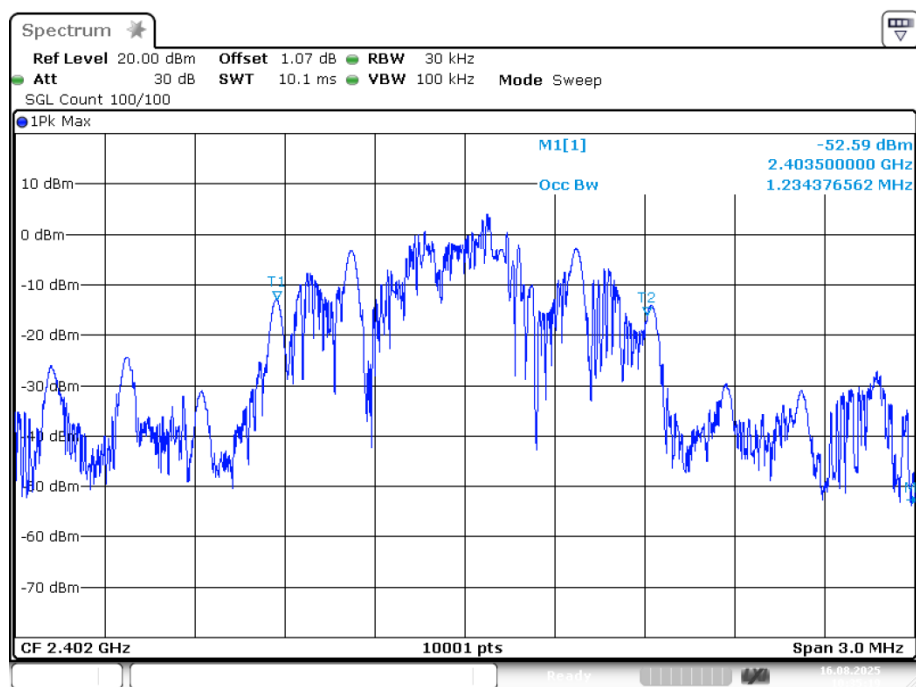


OBW NVNT 1-DH5 2441MHz Ant1



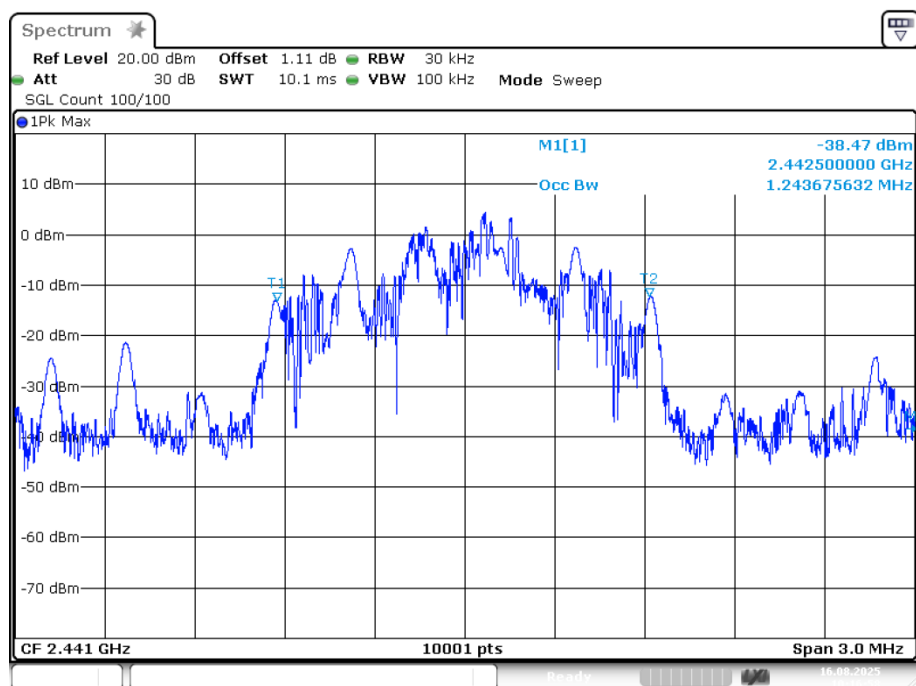
OBW NVNT 1-DH5 2480MHz Ant1

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Date: 16.AUG.2025 10:35:20

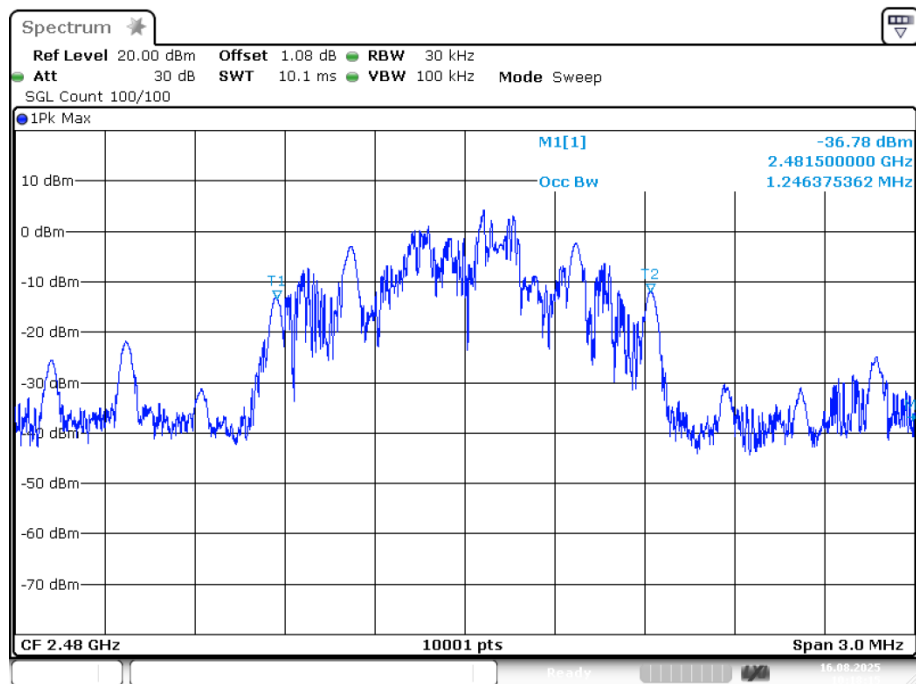
OBW NVNT 2-DH5 2402MHz Ant1



Date: 16.AUG.2025 10:16:58

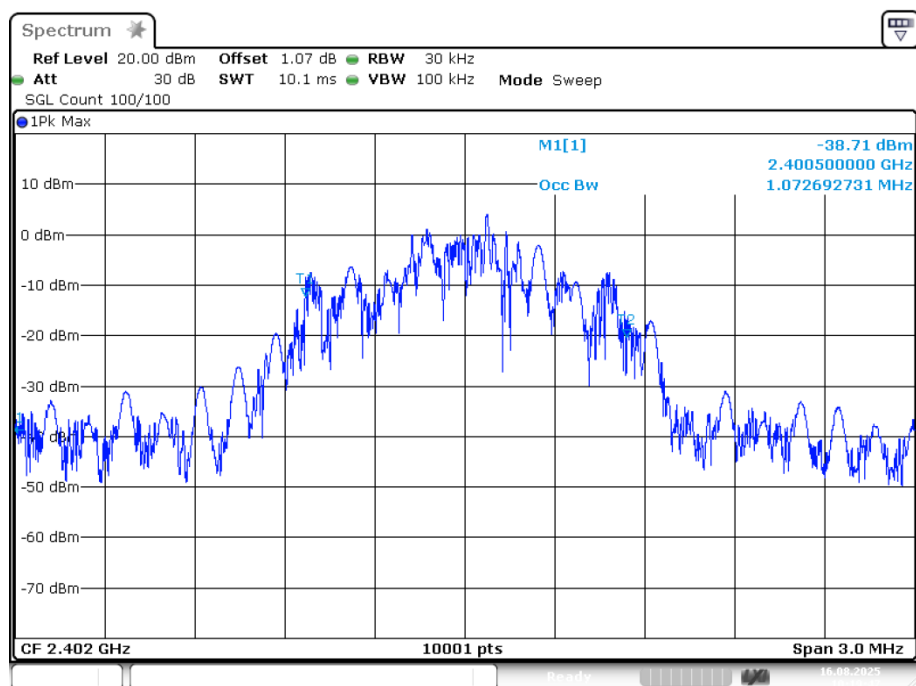
OBW NVNT 2-DH5 2441MHz Ant1

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Date: 16.AUG.2025 10:18:15

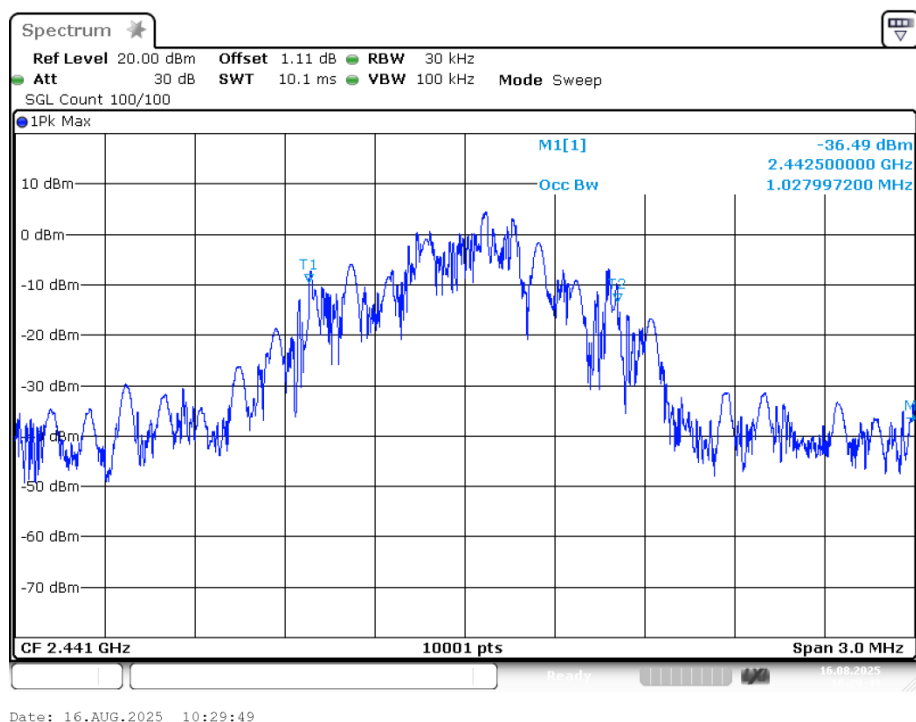
OBW NVNT 2-DH5 2480MHz Ant1



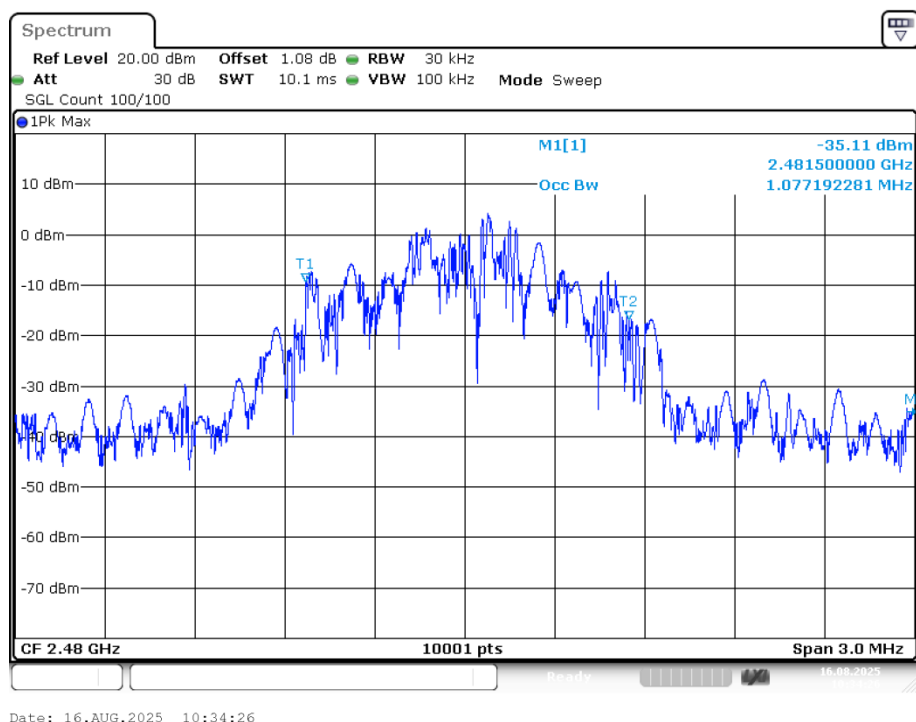
Date: 16.AUG.2025 10:19:47

OBW NVNT 3-DH5 2402MHz Ant1

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OBW NVNT 3-DH5 2441MHz Ant1



OBW NVNT 3-DH5 2480MHz Ant1

Test Result: The unit does meet the FCC requirements.

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5.4 Carrier Frequencies Separation

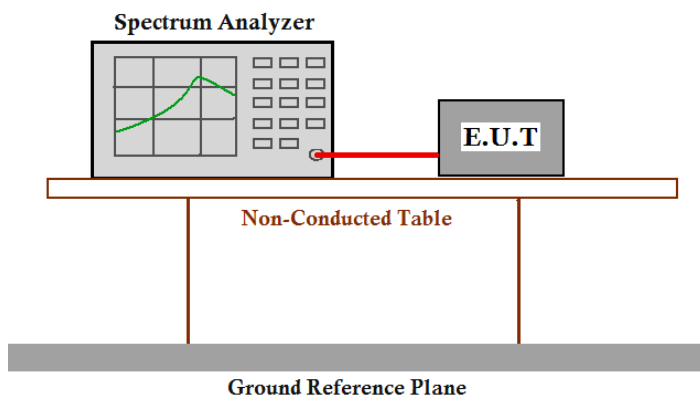
Test Requirement: FCC Part 15 C section 15.247

(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

Test Status: Test the EUT in continuous transmitting mode at the lowest, middle and highest Channel

5.4.1 Test Configuration



Test Procedure:

1. The testing follows the Measurement Procedure of ANSI C63.10:2020 Section 7.8.2.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings: Span: wide enough to capture the peaks of two adjacent channels / RBW: Start with the RBW set to approximately 30% of the channel spacing / VBW $\geq$ RBW /

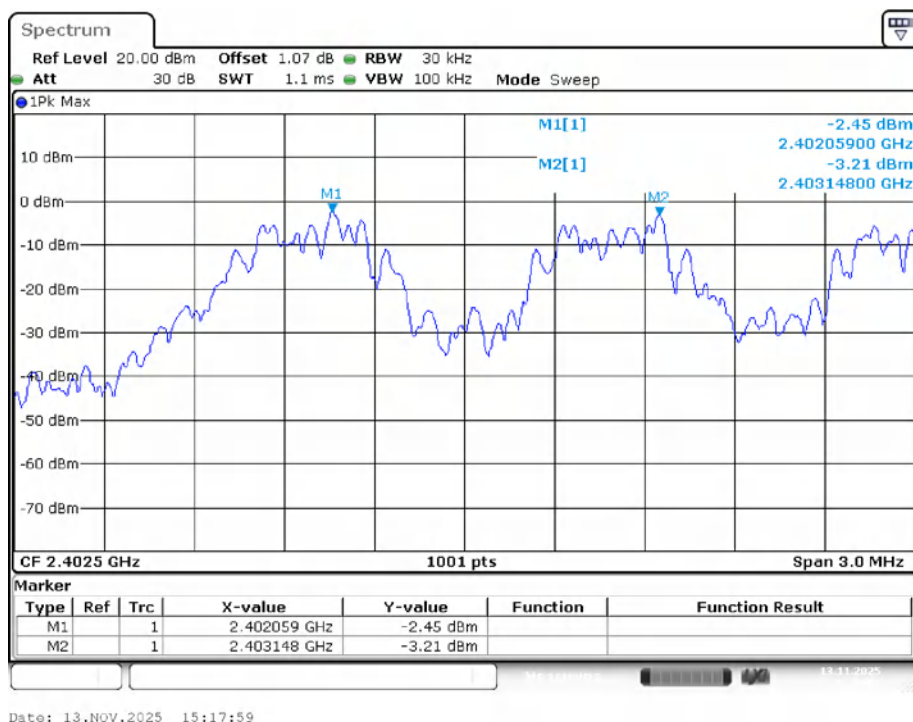
Sweep: Auto / Detector function: Peak / Trace: Max hold / Allow the trace to stabilize / Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

6. Record the measurement results in the test report.

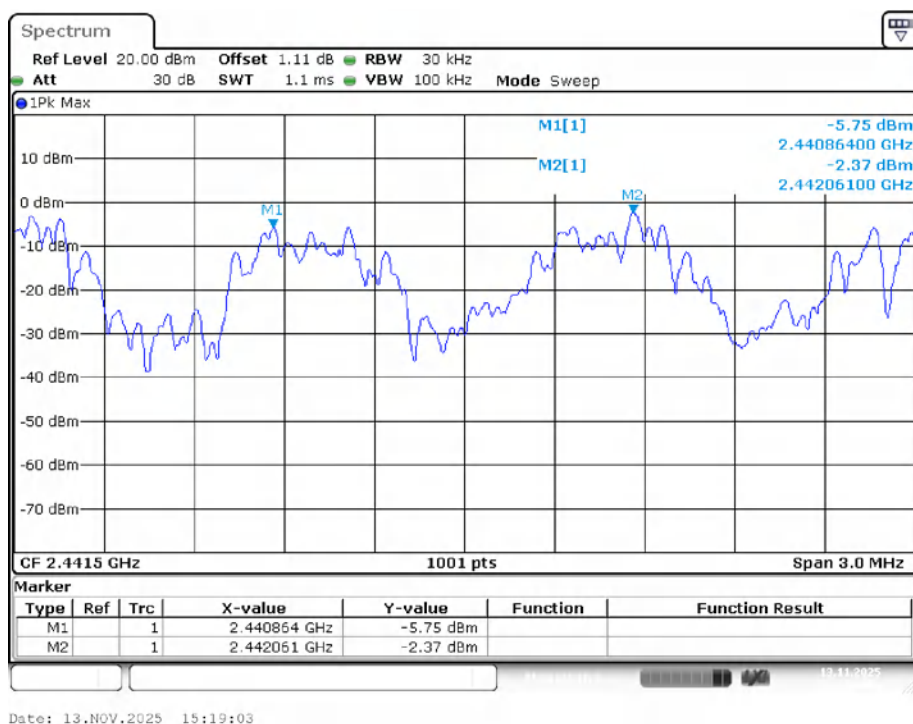
5.4.2 Test Result (Carrier Frequencies Separation)

Test mode	Test Frequency (MHz)	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Test Result
DH5	2402	2402.059	2403.148	1.089	0.699	Pass
	2441	2440.864	2442.061	1.197	0.667	Pass
	2480	2479.062	2480.064	1.002	0.681	Pass
2DH5	2402	2402.062	2403.013	0.951	0.857	Pass
	2441	2440.867	2441.866	0.999	0.856	Pass
	2480	2479.14	2480.064	0.924	0.855	Pass
3DH5	2402	2401.831	2403.064	1.233	0.732	Pass
	2441	2441.149	2442.058	0.909	0.731	Pass
	2480	2479.149	2480.061	0.912	0.735	Pass

Carrier Frequencies Separation
Result plot as follows:



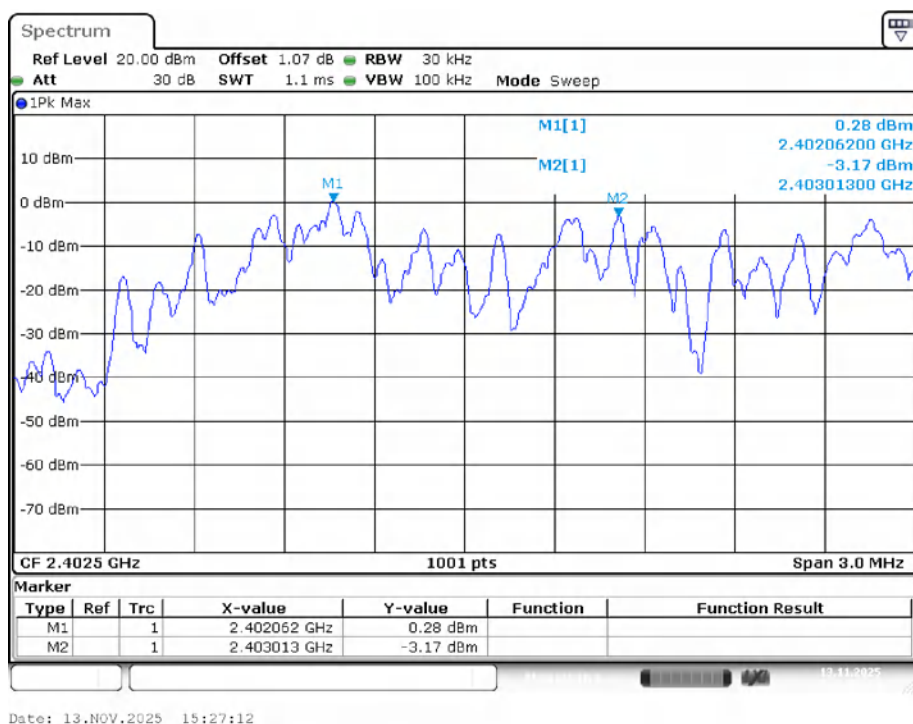
CFS NVNT 1-DH5 2402MHz Ant1



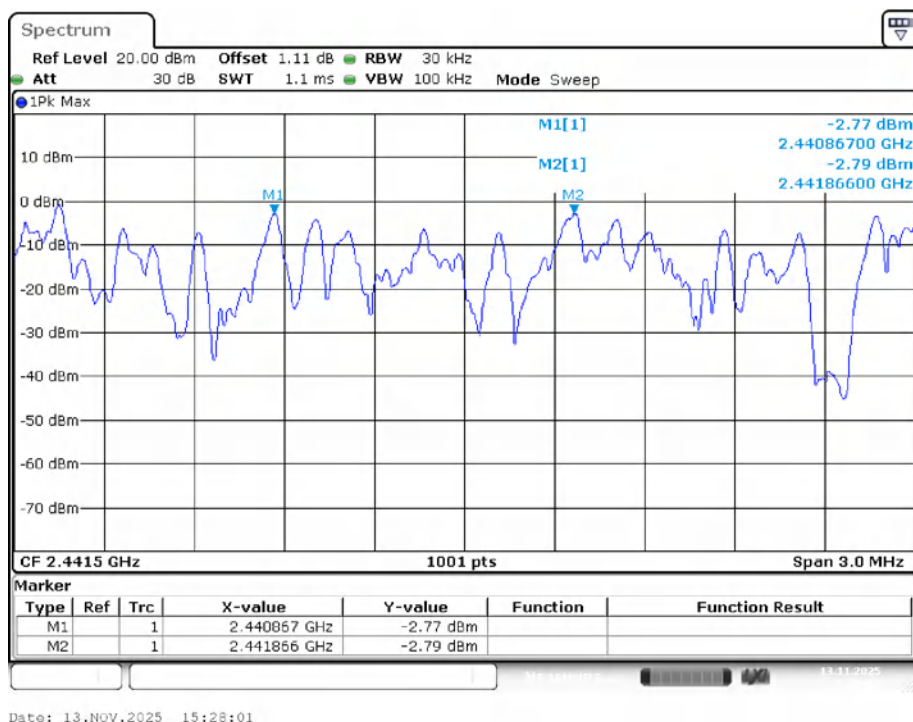
CFS NVNT 1-DH5 2441MHz Ant1



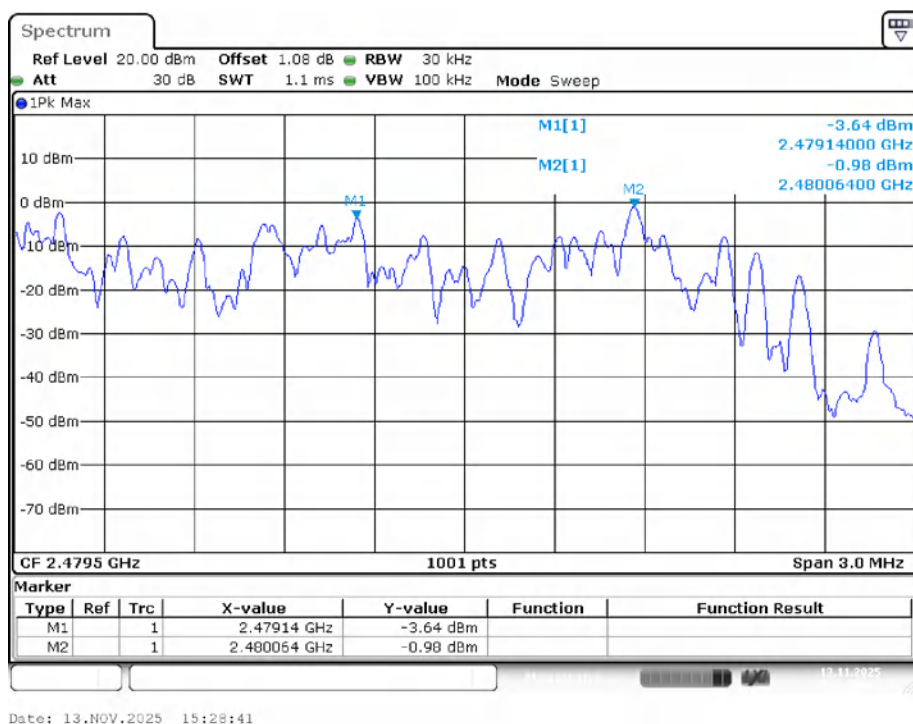
CFS NVNT 1-DH5 2480MHz Ant1



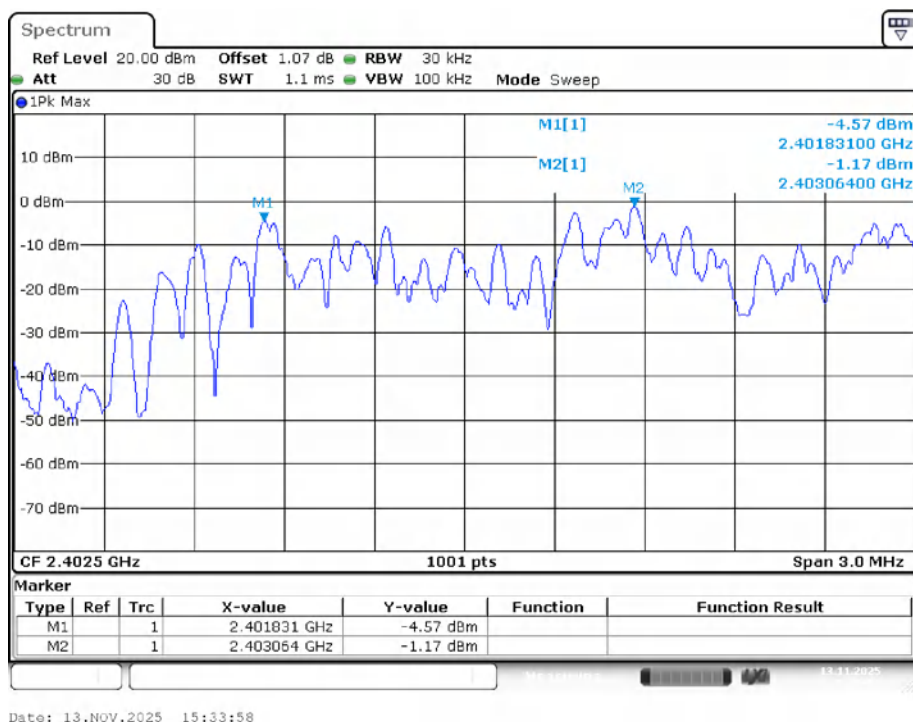
CFS NVNT 2-DH5 2402MHz Ant1



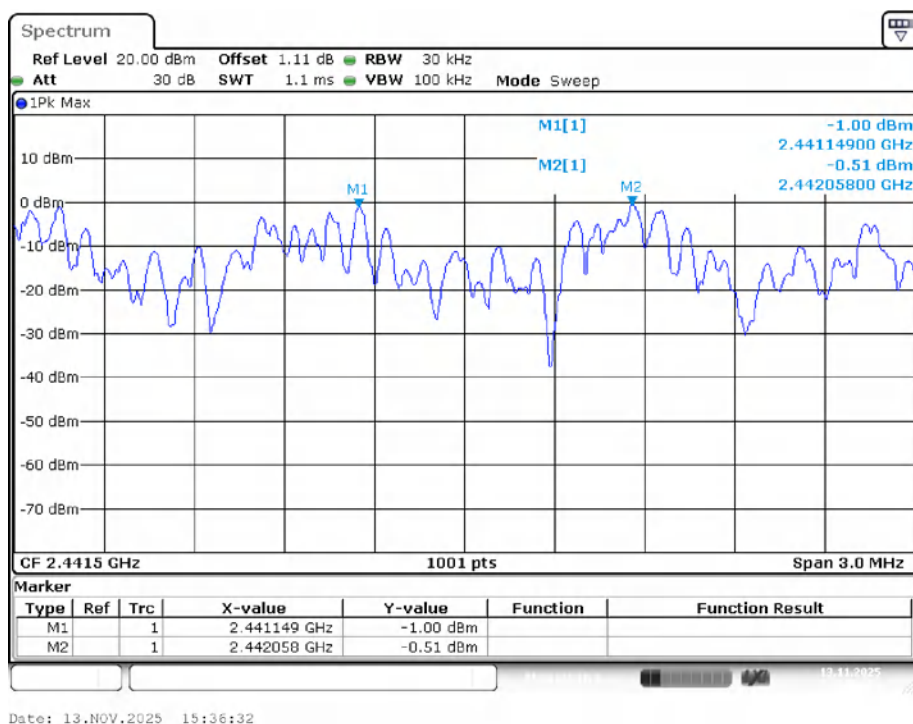
CFS NVNT 2-DH5 2441MHz Ant1



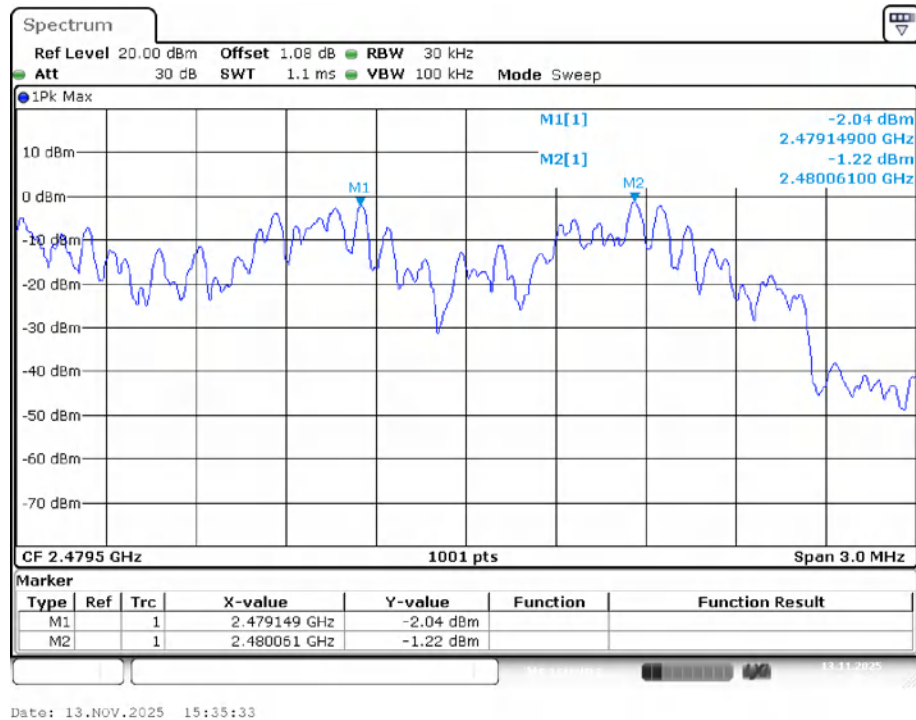
CFS NVNT 2-DH5 2480MHz Ant1



CFS NVNT 3-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2441MHz Ant1



CFS NVNT 3-DH5 2480MHz Ant1

Test Result: The unit does meet the FCC requirements.

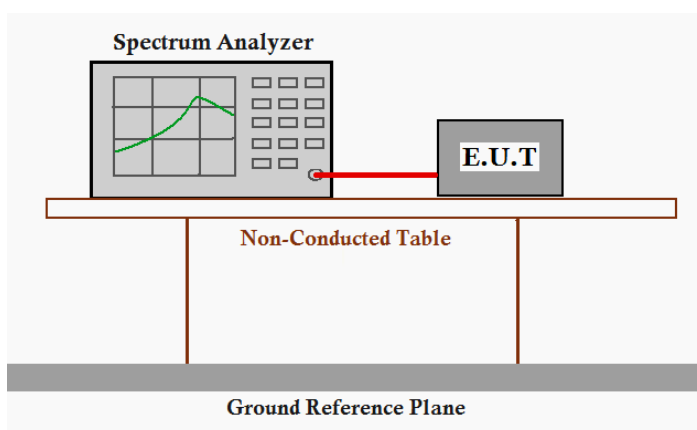
5.5 Hopping Channel Number

Test Requirement: FCC Part15 C section 15.247
(a)(1)(iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

Test Method: ANSI C63.10:2020

Test Status: Test the EUT in hopping mode

5.5.1 Test Configuration

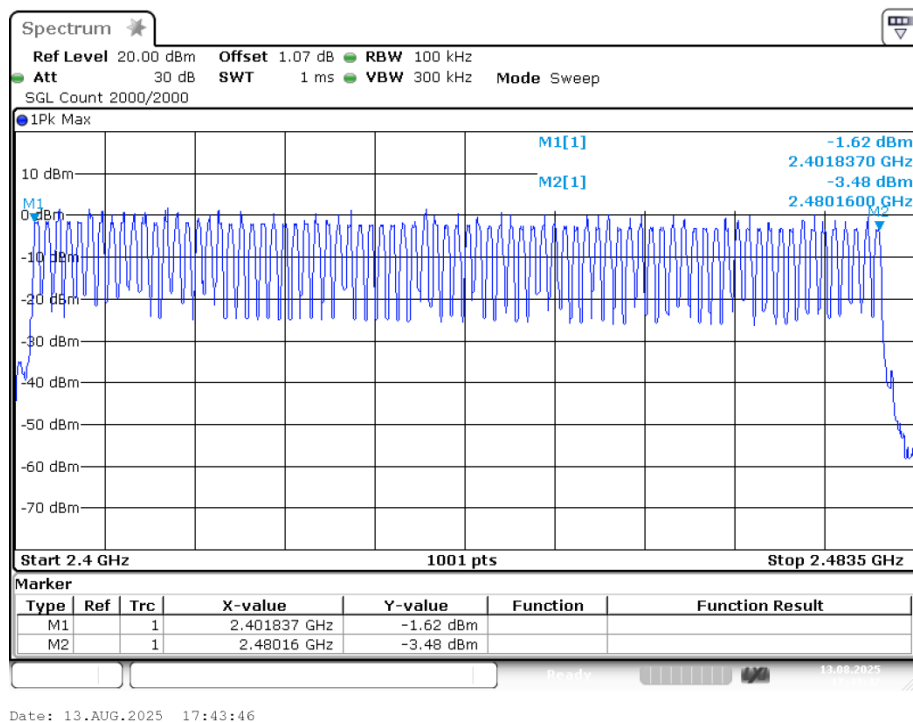


Test Procedure:

1. The testing follows the Measurement Procedure of ANSI C63.10:2020 Section 7.8.3.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings: Span: The frequency band of operation / RBW: Set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, Whichever is smaller / VBW $\geq$ RBW / Sweep: Auto / Detector function: Peak / Trace: Max hold / Allow the trace to stabilize.
6. The number of hopping frequency used is defined as the number of total channel.
7. Record the measurement results in the test report.

5.5.2 Test Result (Hopping Channel Number)

Hopping Channel Number
Result plot as follows:



Note: The limit of Hopping Channel Number is at least 15 channels.

Test Result: The unit does meet the FCC requirements.

5.6 Dwell Time

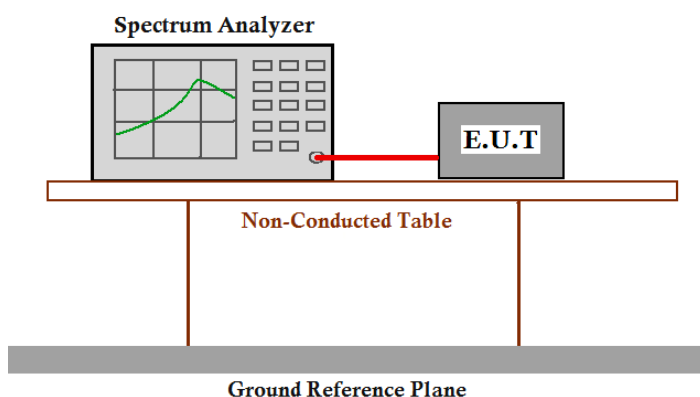
Test Requirement: FCC Part 15 C section 15.247

(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

Test Status: Test the EUT in continuous transmitting mode at the lowest, middle and Highest Channel

5.6.1 Test Configuration



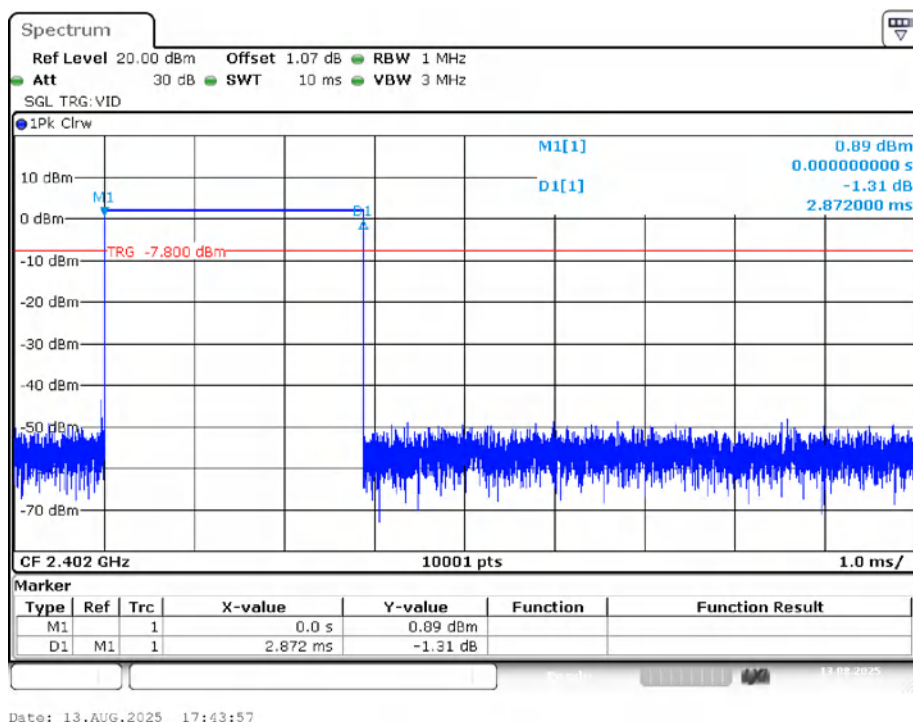
Test Procedure:

1. The testing follows the Measurement Procedure of ANSI C63.10:2020 Section 7.8.4.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings: Span: Zero span, centered on a hopping channel / RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1 / T$, where T is the expected dwell time per channel / VBW $\geq$ RBW / Sweep: As necessary to capture the entire dwell time per hopping channel / Detector function: Peak / Trace: Max hold.

6. Record the measurement results in the test report.

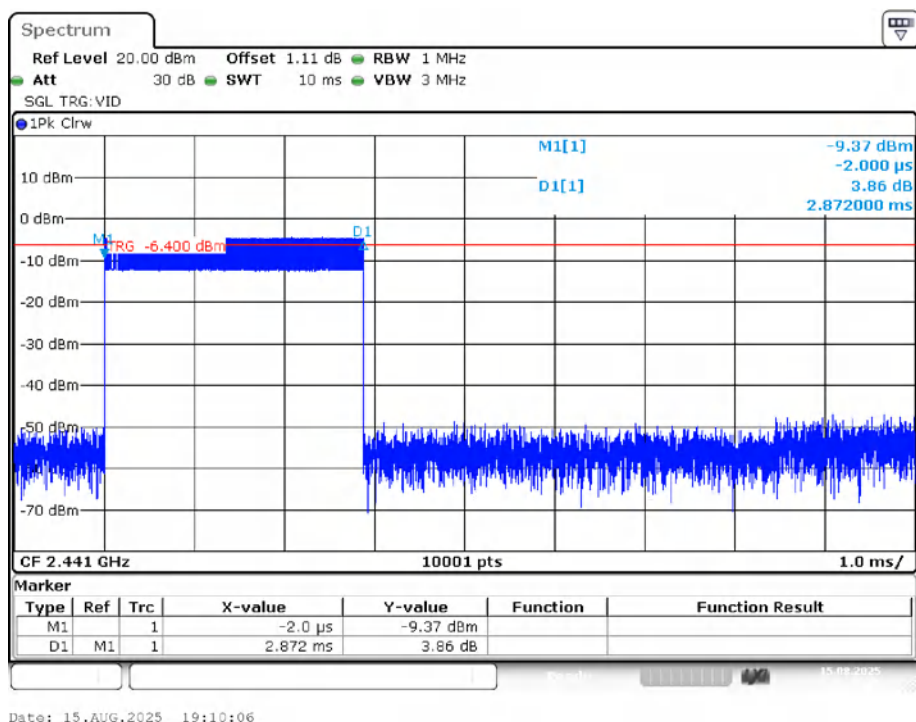
5.6.2 Test Result (Dwell Time)

Test mode	Test Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Test Result
DH5	2402	2.872	306.347	31600	400	Pass
	2441	2.872	306.347	31600	400	Pass
	2480	2.873	306.453	31600	400	Pass
2DH5	2402	2.878	306.987	31600	400	Pass
	2441	2.874	306.56	31600	400	Pass
	2480	2.879	307.093	31600	400	Pass
3DH5	2402	2.88	307.2	31600	400	Pass
	2441	2.88	307.2	31600	400	Pass
	2480	2.881	307.307	31600	400	Pass

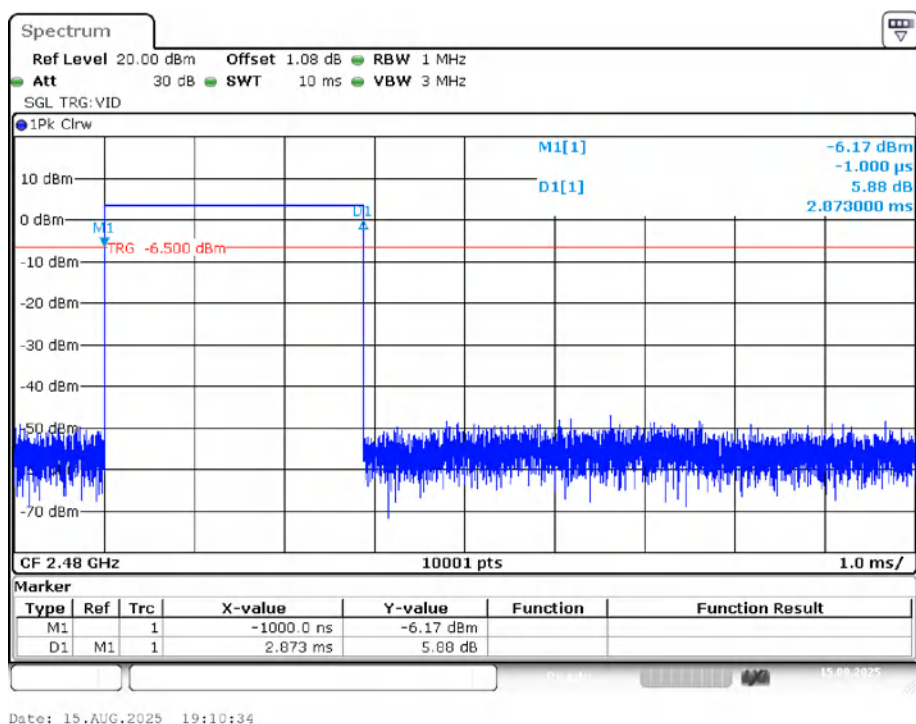


Dwell NVNT 1-DH5 2402MHz Ant1

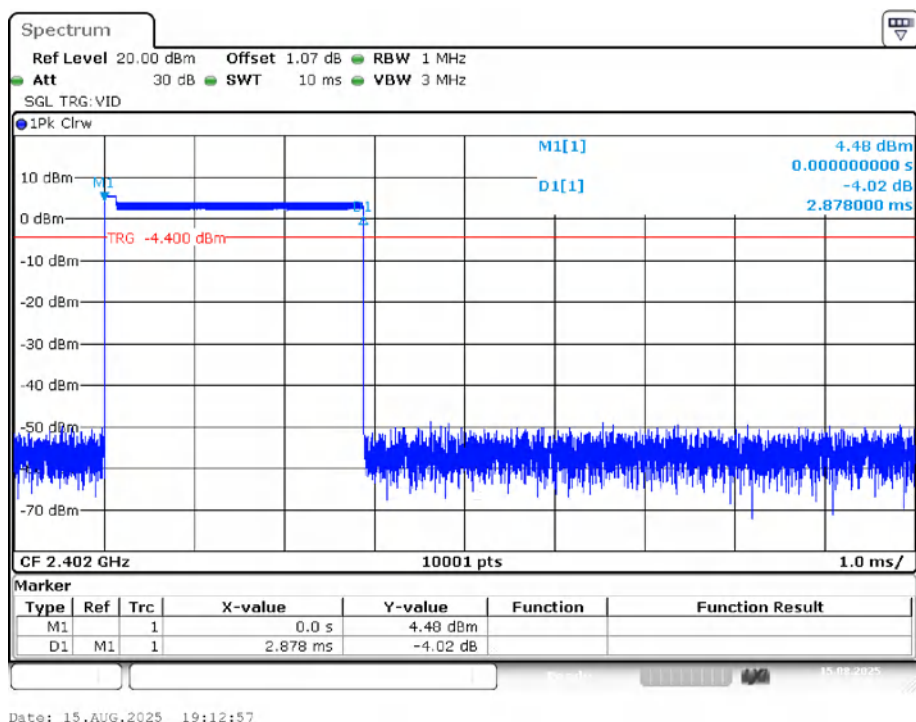
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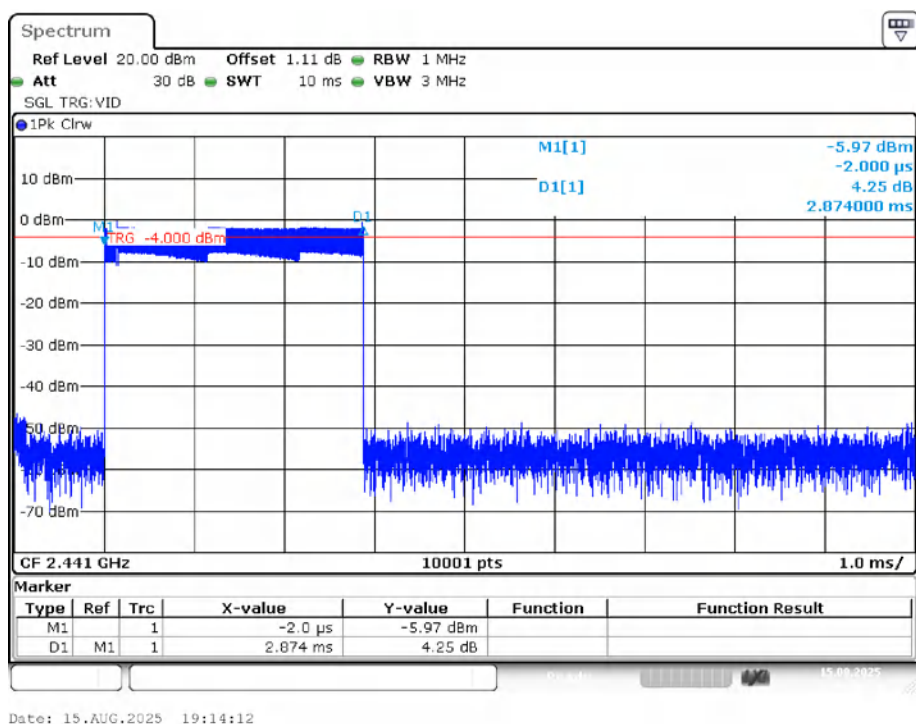
Dwell NVNT 1-DH5 2441MHz Ant1



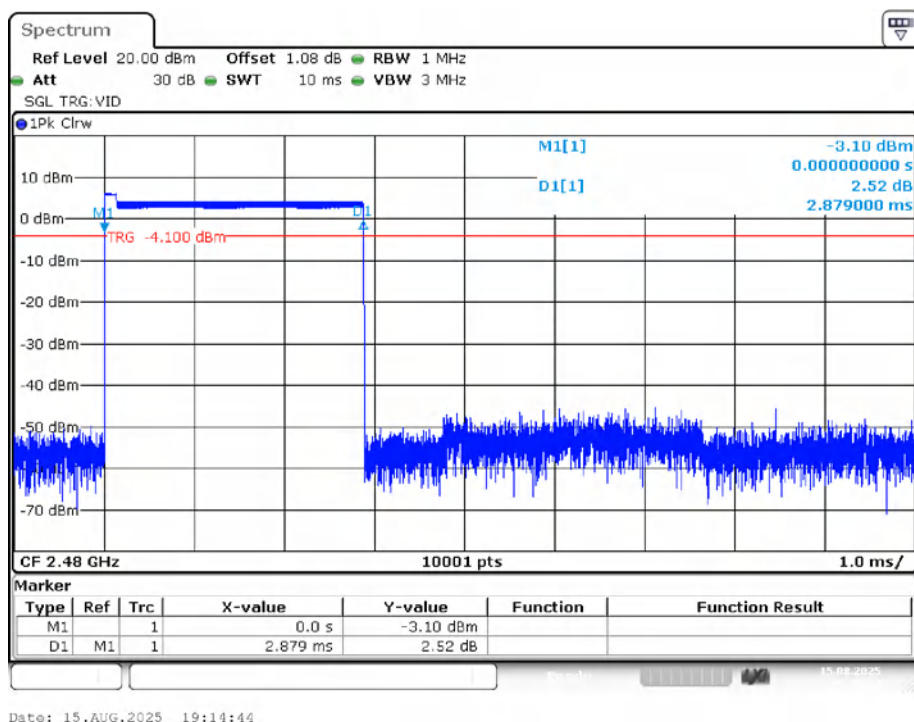
Dwell NVNT 1-DH5 2480MHz Ant1



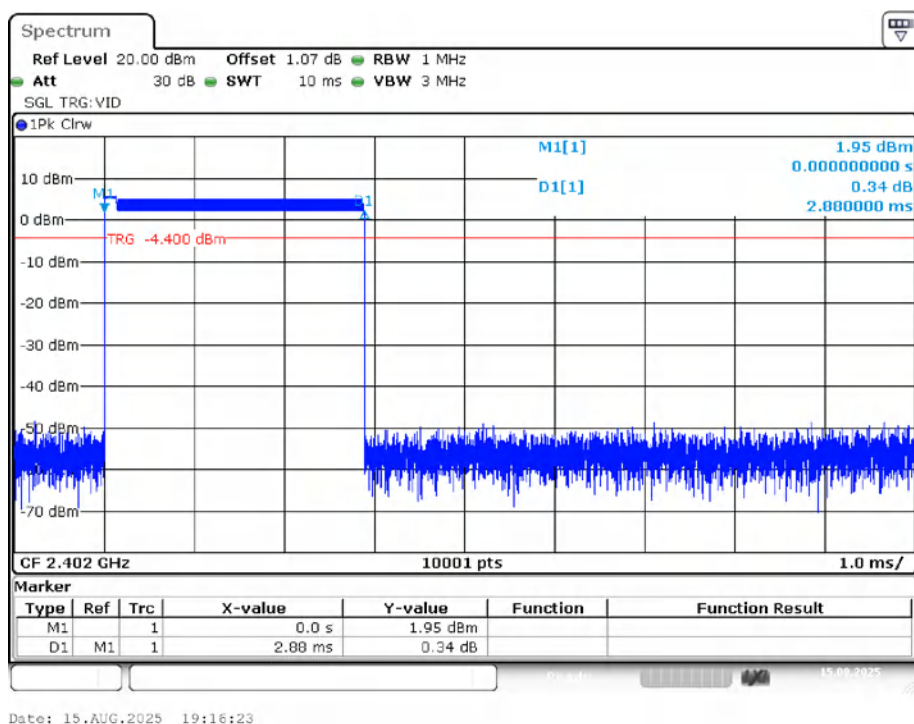
Dwell NVNT 2-DH5 2402MHz Ant1



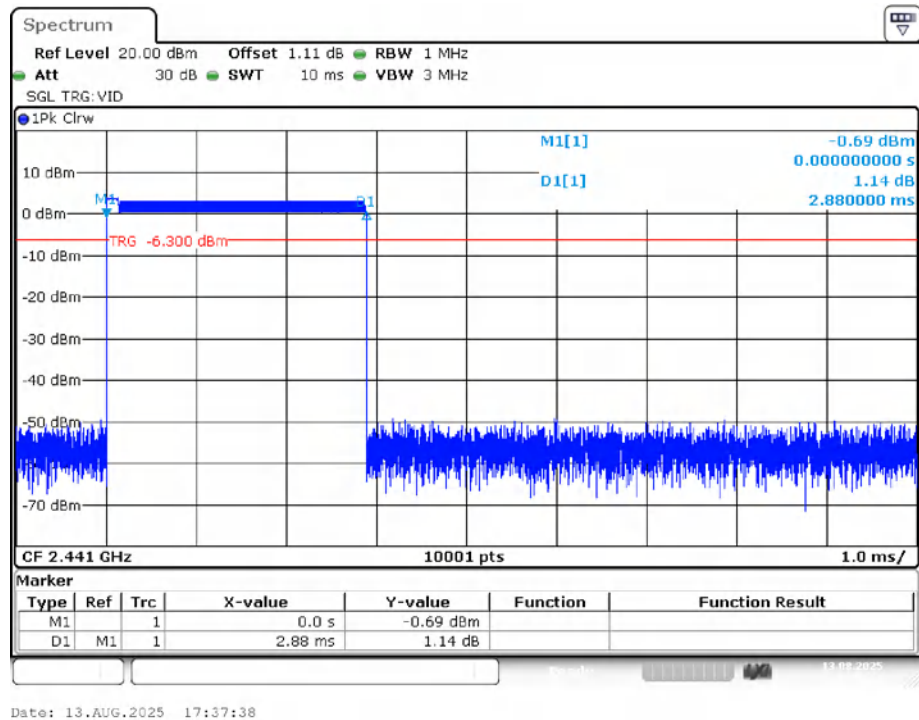
Dwell NVNT 2-DH5 2441MHz Ant1



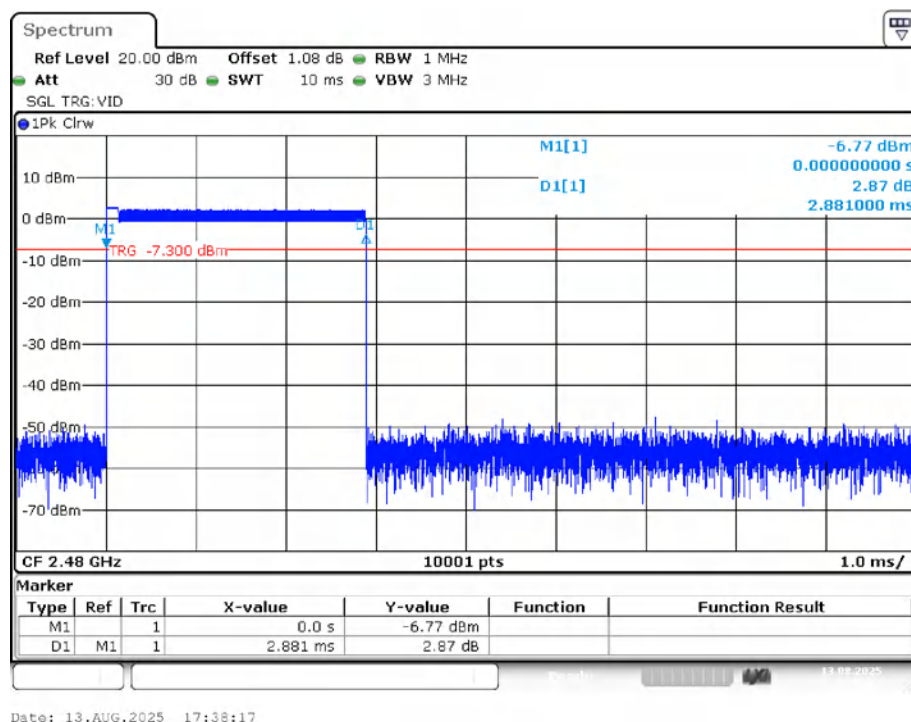
Dwell NVNT 2-DH5 2480MHz Ant1



Dwell NVNT 3-DH5 2402MHz Ant1



Dwell NVNT 3-DH5 2441MHz Ant1



Dwell NVNT 3-DH5 2480MHz Ant1

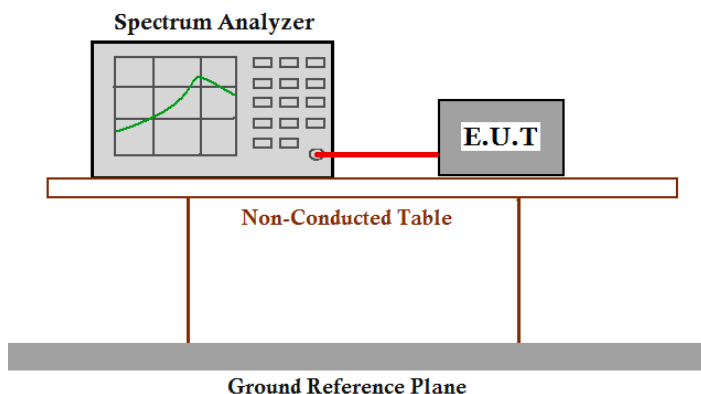
Test Result: The unit does meet the FCC requirements.

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5.7 Maximum Conducted Output Power

Test Requirement:	FCC Part 15 C section 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: 0.125W Refer to the result "Hopping channel number" of this document. The 1 watt (30.0 dBm) limit applies.
Test Method:	ANSI C63.10:2020
Test Limit:	0.125 W
Test mode:	Test the EUT in continuous transmitting mode at the lowest, middle and highest Channel.

5.7.1 Test Configuration



Test Procedure:

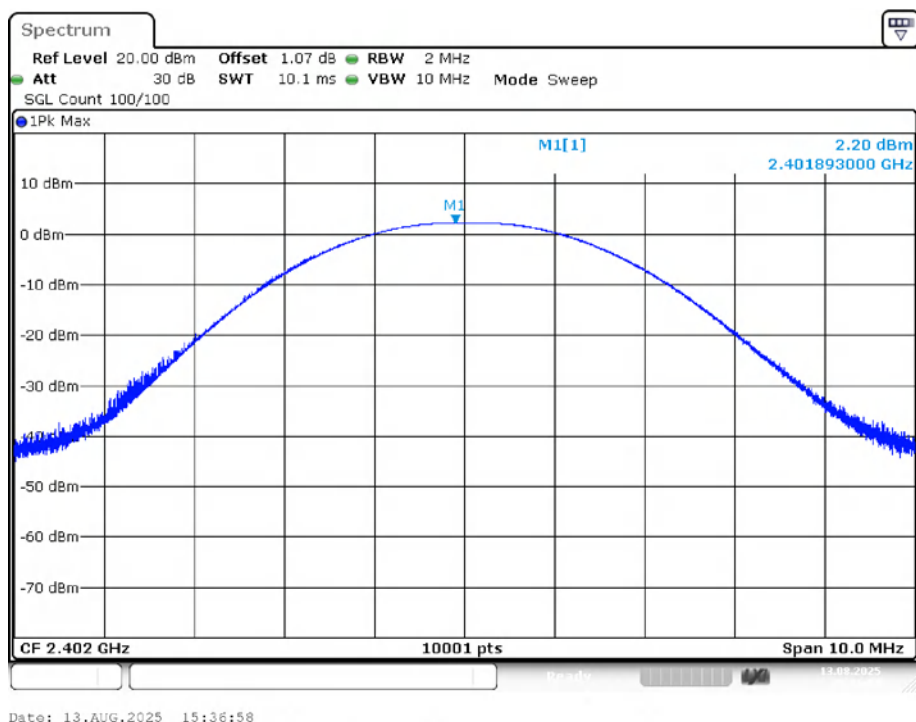
1. The testing follows the Measurement Procedure of ANSI C63.10:2020 Section 7.8.5.
2. The RF output of EUT was connected to Spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Use the following spectrum analyzer settings: Set span to be Approximately five times the 20 dB bandwidth, centered on a hopping channel / RBW > 20 dB bandwidth of the emission being measured / VBW ≥ RBW / Sweep: Auto / Detector function: Peak / Trace: Max hold / Allow trace to stabilize / Use the marker-to-peak function to set the marker to the peak of the emission.
5. Record the measurement results in the test report.

5.7.2 Test Result (Maximum Conducted Output Power)

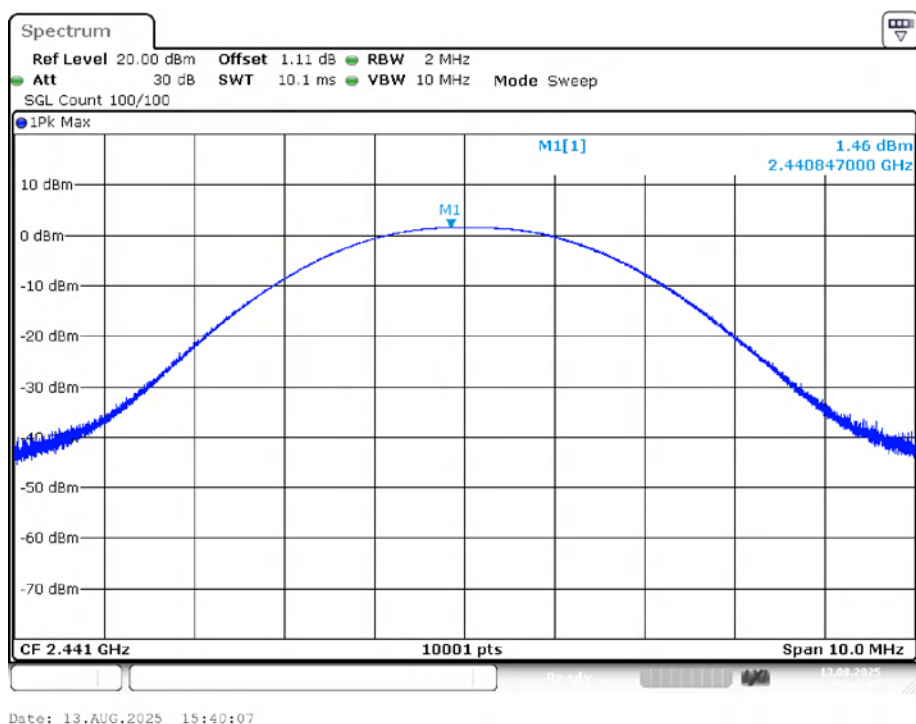
Test mode	Test Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Test Result
DH5	2402	2.202	21	Pass
	2441	1.462	21	Pass
	2480	0.426	21	Pass
2DH5	2402	4.647	21	Pass
	2441	3.848	21	Pass
	2480	2.84	21	Pass
3DH5	2402	4.654	21	Pass
	2441	3.863	21	Pass
	2480	2.866	21	Pass

Maximum Conducted Output Power

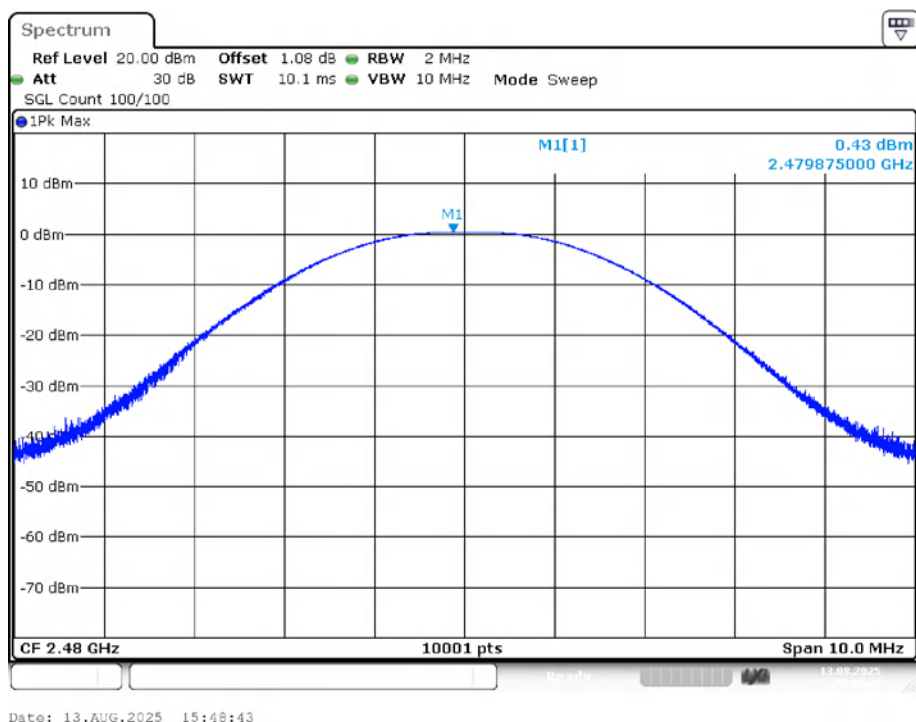
Test result plot as follows:



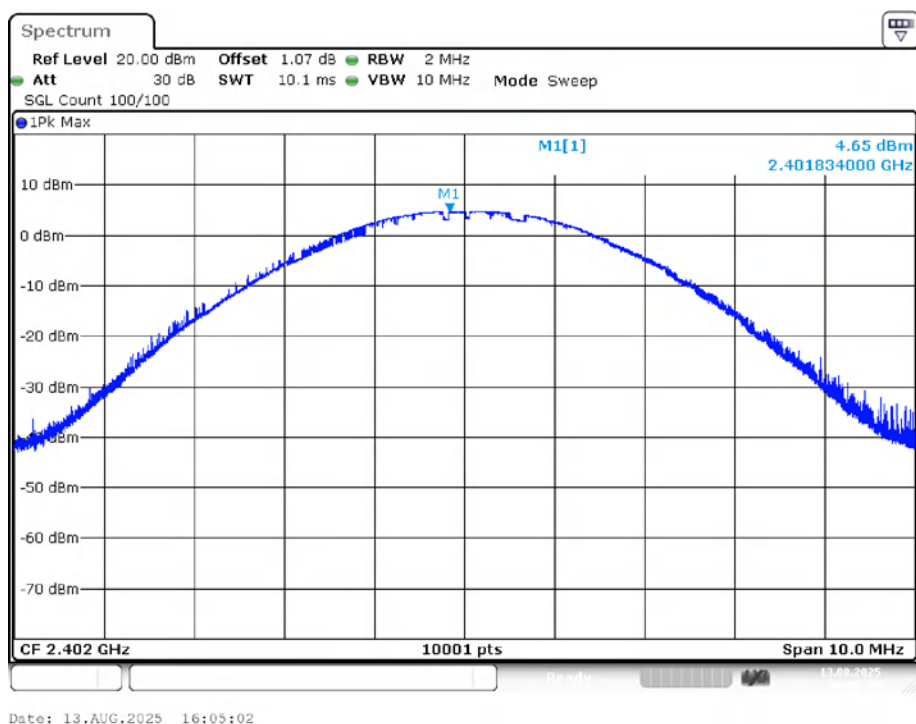
Power NVNT 1-DH5 2402MHz Ant1



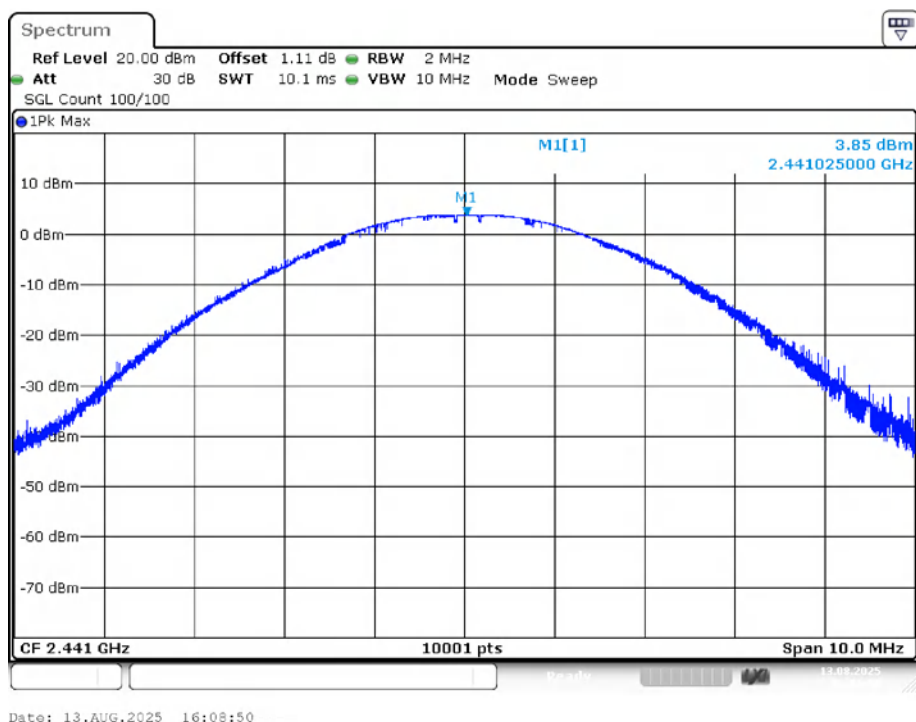
Power NVNT 1-DH5 2441MHz Ant1



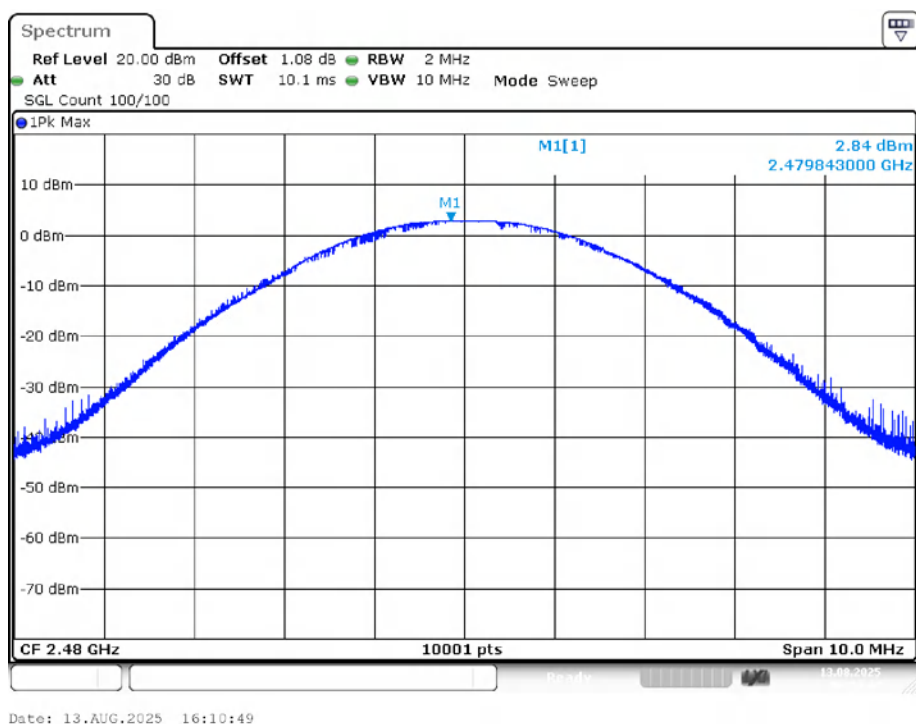
Power NVNT 1-DH5 2480MHz Ant1



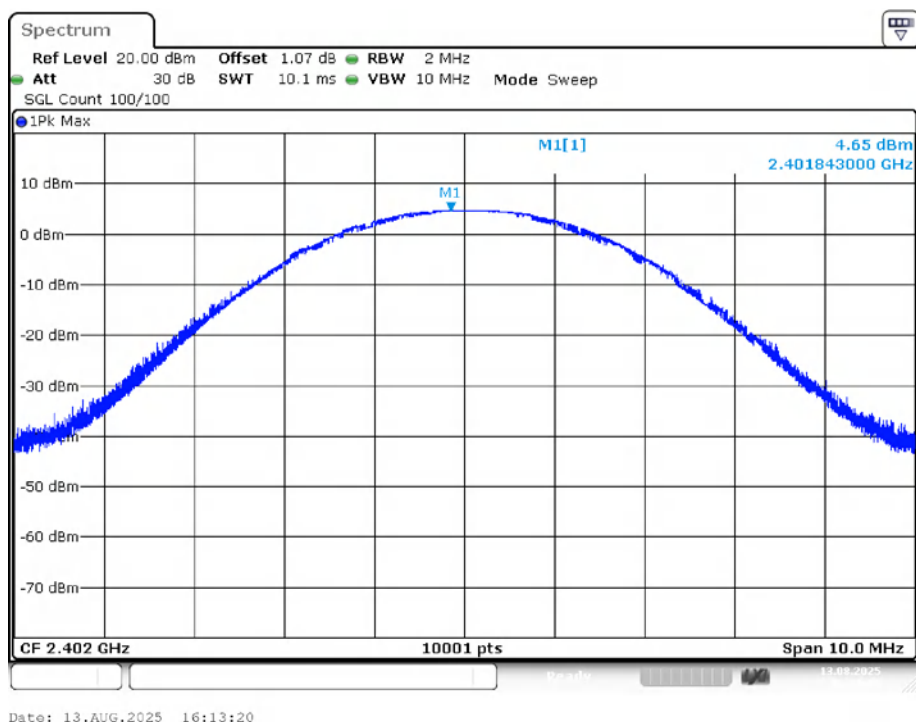
Power NVNT 2-DH5 2402MHz Ant1



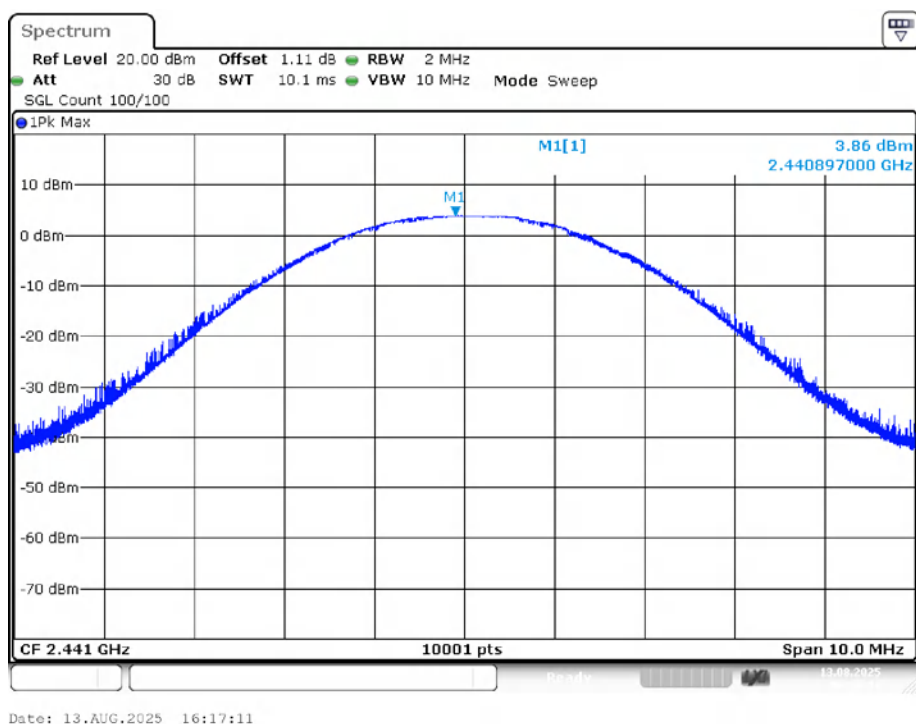
Power NVNT 2-DH5 2441MHz Ant1



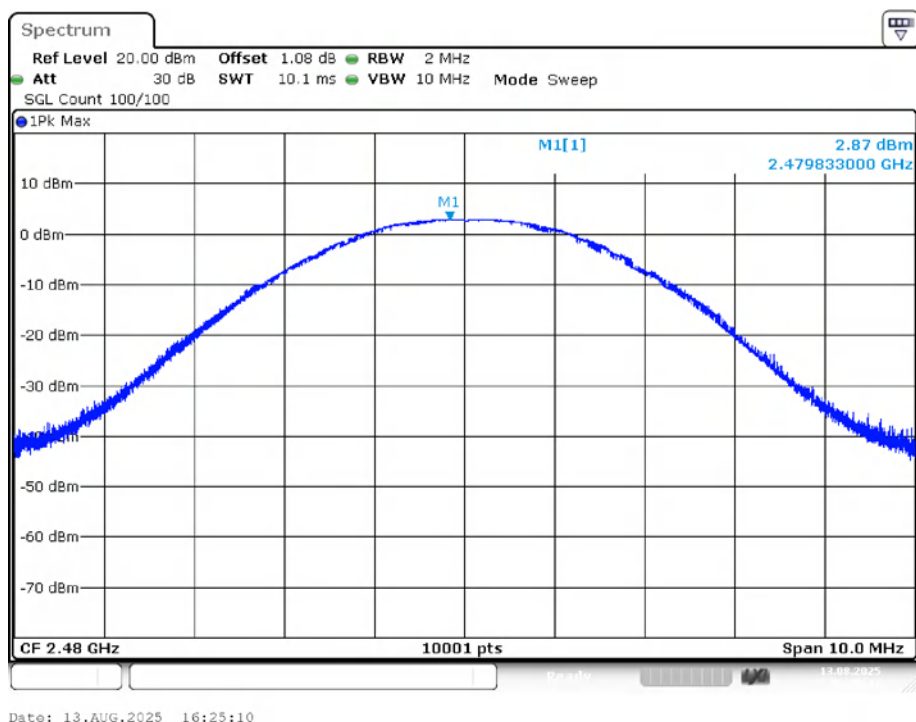
Power NVNT 2-DH5 2480MHz Ant1



Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1



Power NVNT 3-DH5 2480MHz Ant1

Test Result: The unit does meet the FCC requirements.

5.8 Conducted Spurious Emissions

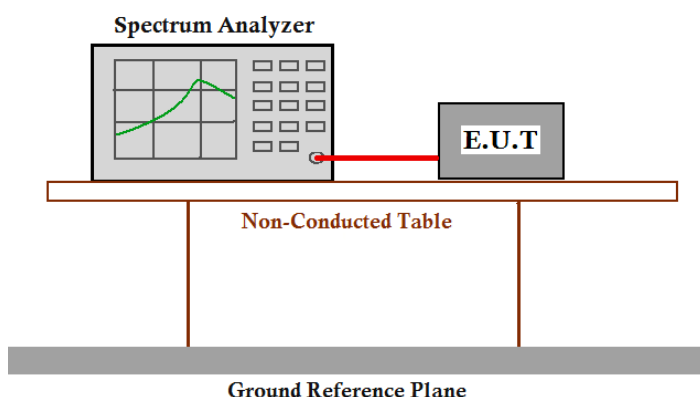
Test Requirement: FCC Part15 C section 15.247

(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.

Test Method: ANSI C63.10:2020

Test Status: Test the EUT in continuous transmitting mode at the lowest, middle and highest channel.

5.8.1 Test Configuration



Test Procedure:

1. The testing follows the Measurement Procedure of ANSI C63.10:2020 Section 7.8.8.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Use the following spectrum analyzer settings: Set the frequency range to 30MHz~25GHz / RBW: 100kHz / VBW: 300kHz / Detector: Peak / Sweep time: Auto couple / Trace mode: Max hold / Allow trace to fully stabilize / Use the peak marker function to determine the maximum amplitude level.
5. Record the measurement results in the test report.

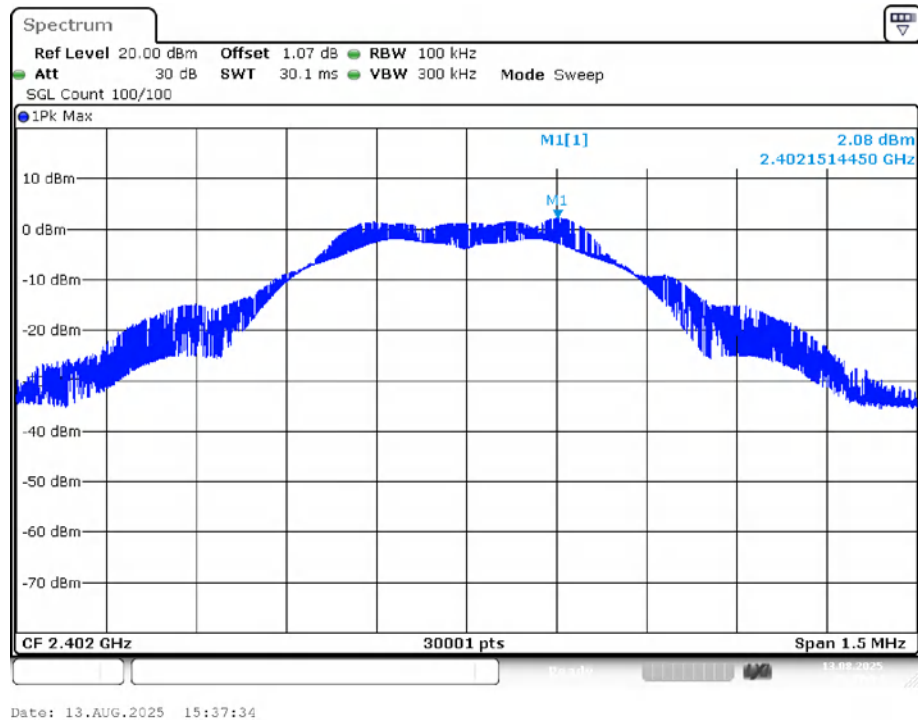
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

5.8.2 Test Result (Conducted Spurious Emissions)

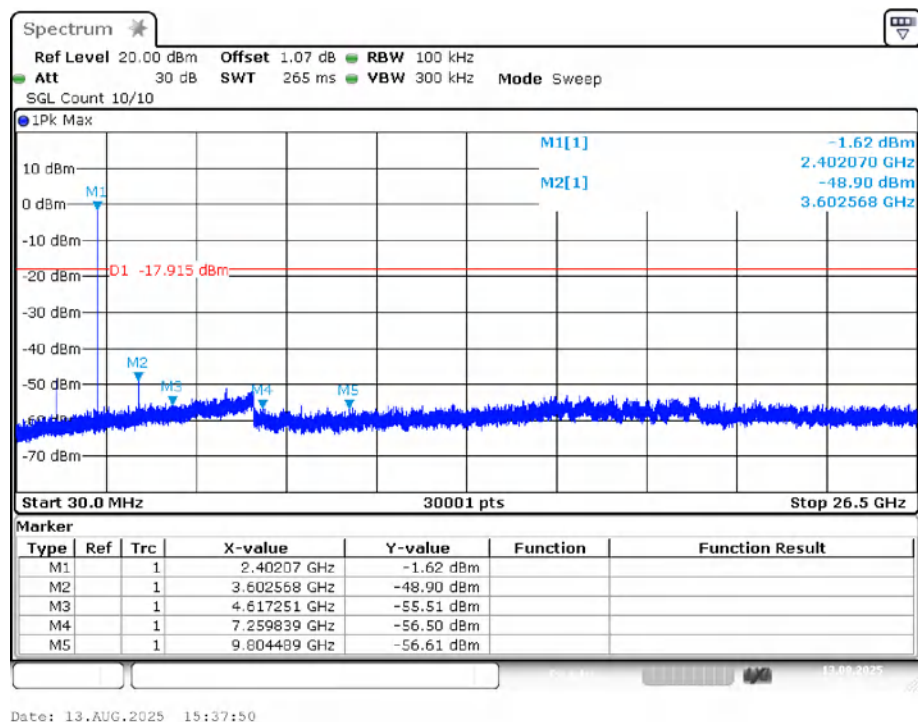
Test mode	Test Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Test Result
DH5	2402	-50.97	-20	Pass
	2441	-50.16	-20	Pass
	2480	-48.47	-20	Pass
2DH5	2402	-49.51	-20	Pass
	2441	-51.47	-20	Pass
	2480	-51.91	-20	Pass
3DH5	2402	-48.58	-20	Pass
	2441	-55.21	-20	Pass
	2480	-48.29	-20	Pass

Conducted Spurious Emissions

Test result plot as follows



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission