

RF TEST REPORT

Applicant Dreamtek Intelligent Technology
Co., Ltd.

FCC ID 2BOUAD1

Product D1

Brand Dreamtek

Model D1

Report No. EFTA25040106-IE-02-R4V1

Issue Date August 18, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2024)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	July 30, 2025
Rev.1	Updated data and description.	August 18, 2025
Note: This revised report (Report No.: EFTA25040106-IE-02-R4V1) supersedes and replaces the previously issued report (Report No.: EFTA25040106-IE-02-R4). Please discard or destroy the previously issued report and dispose of it accordingly.		

Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	Frequency Hopping System	15.247 (g), (h)	PASS
2	Peak Power Output	15.247(b)(1)	PASS
3	99% Bandwidth and 20dB Bandwidth	15.247(a)(1) C63.10 6.9	PASS
4	Frequency Separation	15.247(a)(1)	PASS
5	Time of Occupancy (Dwell Time)	15.247(a)(1)(iii)	PASS
6	Band Edge Compliance	15.247(d)	PASS
7	Number of Hopping Frequency	15.247(a)(1)(iii)	PASS
8	Spurious RF Conducted Emissions	15.247(d)	PASS
9	Unwanted Emissions	15.247(d),15.205,15.209	PASS
10	Conducted Emissions	15.207	PASS
Date of Testing: April 16, 2025 ~ May 28, 2025 and August 15, 2025 ~ August 18, 2025			
Date of Sample Received: April 11, 2025			
<p>Note: PASS: The EUT complies with the essential requirements in the standard.</p> <p>FAIL: The EUT does not comply with the essential requirements in the standard.</p> <p>All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.</p>			

1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company:	Eurofins TA Technology (Shanghai) Co., Ltd.
Address:	Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City:	Shanghai
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2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	Dreamtek Intelligent Technology Co., Ltd.
Applicant address	Room 508, Building A2, Area one of Zhongan Chuanggu Science Park, No. 900 of Wangjiang West Road, High-tech Zone, Hefei, Anhui, China
Manufacturer	Dreamtek Intelligent Technology Co., Ltd.
Manufacturer address	Room 508, Building A2, Area one of Zhongan Chuanggu Science Park, No. 900 of Wangjiang West Road, High-tech Zone, Hefei, Anhui, China

2.2 General information

EUT Description			
Model	D1		
SN	Conducted	XBBA2FC1700085	
	Radiated	DA00000389	
Hardware Version	H554-07-DC-0N4-32C-A1 H554-07-DC-0N5-32C-A1		
Software Version	1A.1.3(202503171200 INTL)		
Power Supply	Battery / AC adapter		
Antenna Type	Internal Antenna		
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)		
Antenna Gain	1.57 dBi		
Test Mode(s)	Basic Rate	Enhanced Data Rate(EDR)	
Modulation Type	Frequency Hopping Spread Spectrum (FHSS)		
	GFSK	π/4 DQPSK	8DPSK
Packet Type (Maximum Payload)	DH5	2DH5	3DH5
Max. Output Power	12.32 dBm		
Operating Frequency Range(s)	2402-2480 MHz		
Operating voltage range	7 VDC to 8.4 VDC		
State voltage	7.6 VDC		
EUT Accessory			
Adapter 1	Manufacturer: SHENZHEN TIANYIN ELECTRONICS CO.,LTD. Model: TPA-418G050200UU01		
Adapter 2	Manufacturer: Chongqing Lianmao Electronics Co.,Ltd.		

	Model: LM-603U-050200U02UL
Adapter 3	Manufacturer: SHENZHEN TIANYIN ELECTRONICS CO.,LTD. Model: TPA-418G050200VU01
Adapter 4	Manufacturer: Chongqing Lianmao Electronics Co.,Ltd. Model: LM-603E-050200U02CE
Battery 1	Manufacturer: Dongguan HongDe Battery Co.,Ltd. Model: BPK550-026-72-A
Battery 2	Manufacturer: Guangdong Fenghua New Energy Co.,Ltd. Model: BPK550-026-74-B
USB cable 1	Manufacturer: Shanghai Wangxing Electronic Technology Co.,Ltd. Model: 809.001.0010
USB cable 2	Manufacturer: Chongqing Lianmao Electronics Co.,Ltd. Model: 809.001.0012
<p>Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.</p> <p>2. There is more than one USB cable/Adapter/Battery, each one should be applied throughout the compliance test respectively, and however, only the worst case (USB cable 2/Adapter 4/ Battery 1) will be recorded in this report.</p>	

D1	Configurations 1 (D1+ Token Version with the 1st supply of main materials)	Configurations 2 (D1+ Token Version with the 2nd supply of main materials)	Configurations 3 (D1+ Standard Version with the 1st supply of main materials)	Configurations 4 (D1+ Standard Version with the 2nd supply of main materials)	Configurations 5 (D1A Token Version with the 1st supply of main materials)	Configurations 6 (D1A Token Version with the 2nd supply of main materials)	Configurations 7 (D1A Standard Version with the 1st supply of main materials)	Configurations 8 (D1A Standard Version with the 2nd supply of main materials)
Screen	6.517-inch	6.517-inch	6.517-inch	6.517-inch	5-inch	5-inch	5-inch	5-inch
Front Camera	2M FF	2M FF	2M FF	2M FF	0.3M FF	0.3M FF	0.3M FF	0.3M FF
Rear Camera	The 1st supplier	The 2nd supplier	The 1st supplier	The 2nd supplier	The 1st supplier	The 2nd supplier	The 1st supplier	The 2nd supplier
Printer	The 1st supplier	The 2nd supplier	The 1st supplier	The 2nd supplier	The 1st supplier	The 2nd supplier	The 1st supplier	The 2nd supplier
MSR	The 1st supplier	The 2nd supplier	The 1st supplier	The 2nd supplier	The 1st supplier	The 2nd supplier	The 1st supplier	The 2nd supplier
Button Cell CR2032	The 1st supplier	The 2nd supplier	The 1st supplier	The 2nd supplier	The 1st supplier	The 2nd supplier	The 1st supplier	The 2nd supplier
Hardware Version	H554-07-DC-0N5-32C-A1				H554-07-DC-0N4-32C-A1			

Note: This report only tests configurations 1.

3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR47 Part 15C (2024) Radio Frequency Devices

ANSI C63.10-2013

Reference standard:

KDB 558074 D01 15.247 Meas Guidance v05r02

4 Information about the FHSS characteristics

4.1 Frequency Hopping System Requirement

Standard requirement:

(g) Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

(h) The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(g):

According to Bluetooth Core Specification, the Bluetooth system transmits the packets with the pseudorandom hopping frequency with a continuous data and short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):

According to Bluetooth Core Specification, the Bluetooth system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

According to Bluetooth Core Specification, the Bluetooth system is designed not have the ability to coordinate with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

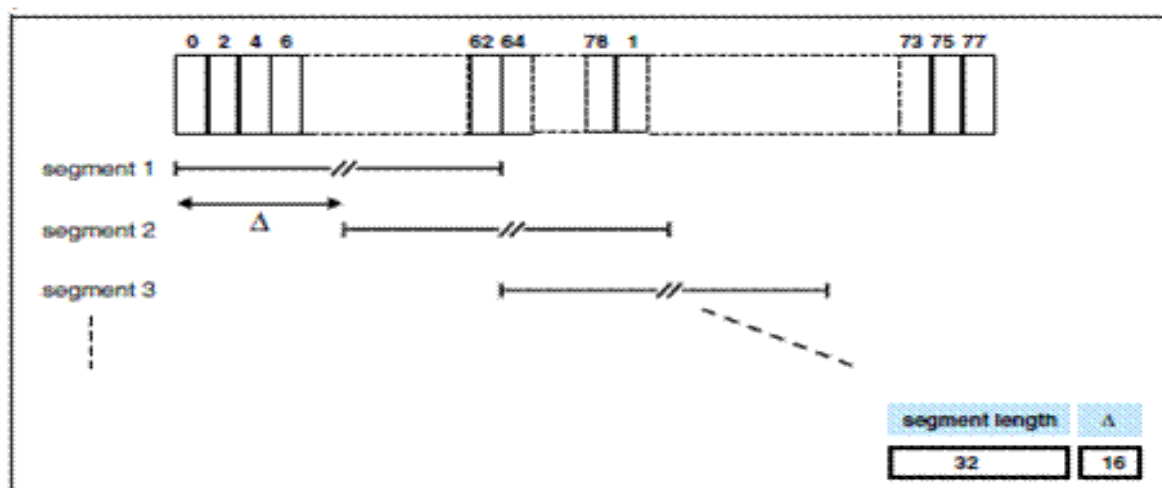
4.2 Pseudorandom Frequency Hopping Sequence

Frequency Hopping Systems. A spread spectrum system in which the carrier is modulated with the coded information in a conventional manner causing a conventional spreading of the RF energy about the frequency carrier. The frequency of the carrier is not fixed but changes at fixed intervals under the direction of a coded sequence. The wide RF bandwidth needed by such a system is not required by spreading of the RF energy about the carrier but rather to accommodate the range of frequencies to which the carrier frequency can hop. The test of a frequency hopping system is that the near term distribution of hops appears random, the long term distribution appears evenly distributed over the hop set, and sequential hops are randomly distributed in both direction and magnitude of change in the hop set.

Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its pioneer to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

The selection scheme chooses a segment of 32 hop frequencies spanning about 64 MHz and visits these hops in a pseudo-random order. Next, a different 32-hop segment is chosen, etc. In the page, master page response, slave page response, page scan, inquiry, inquiry response and inquiry scan hopping sequences, the same 32-hop segment is used all the time (the segment is selected by the address; different devices will have different paging segments).

When the basic channel hopping sequence is selected, the output constitutes a pseudo-random sequence that slides through the 79 hops. The principle is depicted in the figure below.



Hop selection scheme in CONNECTION state.

Pseudorandom Frequency Hopping Sequence Table as below:

Channel: 08, 24, 40, 56, 40, 56, 72, 09, 01, 09, 33, 41, 33, 41, 65, 73, 53, 69, 06, 22, 04, 20, 36, 52, 38, 46, 70, 78, 68, 76, 21, 29, 10, 26, 42, 58, 44, 60, 76, 13, 03, 11, 35, 43, 37, 45, 69, 77, 55, 71, 08, 24, 08, 24, 40, 56, 40, 48, 72, 01, 72, 01, 25, 33, 12, 28, 44, 60, 42, 58, 74, 11, 05, 13, 37, 45, etc.

Each frequency used equally on the average by each transmitter.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

4.3 Equal Hopping Frequency Use

All Bluetooth units participating in the Pico net are time and hop-synchronized to the channel. Each new transmission event begins on the next channel in the hopping sequence after the final channel used in the previous transmission event.

4.4 System Receiver Input Bandwidth

Each channel bandwidth is 1MHz. The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

4.5 Test Configuration

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Test Cases	Test Modes
Peak Power Output -Conducted	DH5/2DH5/3DH5
Occupied Bandwidth (20dB)	DH5/2DH5/3DH5
Frequency Separation	DH5/2DH5/3DH5
Time of Occupancy (Dwell Time)	DH5/2DH5/3DH5
Band Edge Compliance	DH5/2DH5/3DH5
Number of Hopping Frequency	DH5/2DH5/3DH5
Spurious RF Conducted Emissions	DH5/2DH5/3DH5
Unwanted Emission	DH5/2DH5/3DH5
Conducted Emission	DH5/2DH5/3DH5

5 Test Case Results

5.1 Peak Power Output

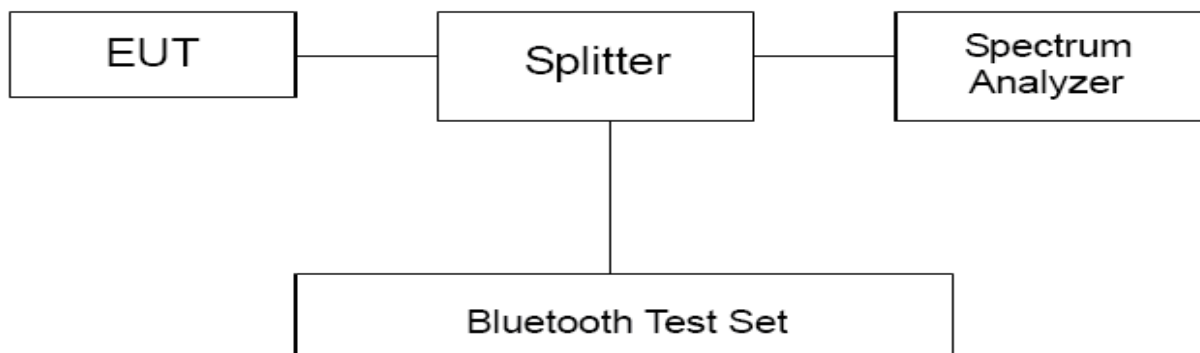
Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Methods of Measurement

During the process of the testing, The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. The EUT is controlled by the Bluetooth test set to ensure max power transmission with proper modulation. The peak detector is used. RBW is set to 2 MHz; VBW is set to 6 MHz. These measurements have been tested at following channels: 0, 39, and 78.

Test Setup



Limits

Rule Part 15.247 (b) (1) specifies that " 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."

Peak Output Power	$\leq 125 \text{ mW (21dBm)}$
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=0.44 \text{ dB}$.

Test Results

Power Index	
Channel	Bluetooth
CH0	default
CH39	default
CH78	default

Channel	Frequency (MHz)	Peak Output Power (dBm)			Limit (dBm)	Conclusion
		DH5	2DH5	3DH5		
0	2402	11.40	11.60	11.57	21	PASS
39	2441	12.23	12.17	12.32	21	PASS
78	2480	9.89	10.06	10.07	21	PASS

5.2 99% Bandwidth and 20dB Bandwidth

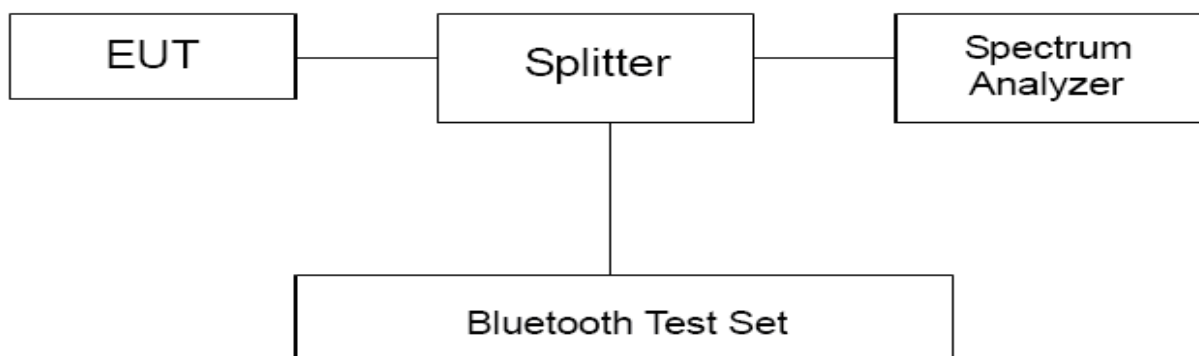
Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. The occupied bandwidth is measured using spectrum analyzer. RBW is set to 30kHz and VBW is set to 100kHz on spectrum analyzer. -20dB occupied bandwidths are recorded.

Test Setup



Limits

No specific occupied bandwidth requirements in part 15.247(a) (1).

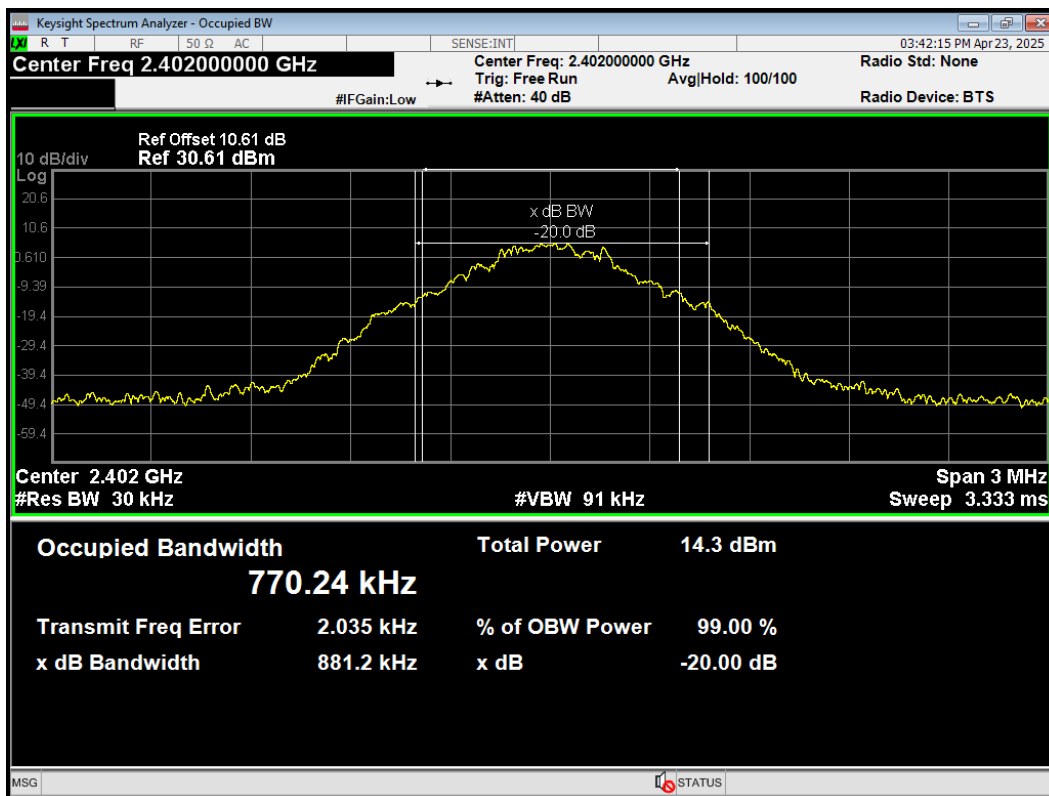
Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=936$ Hz.

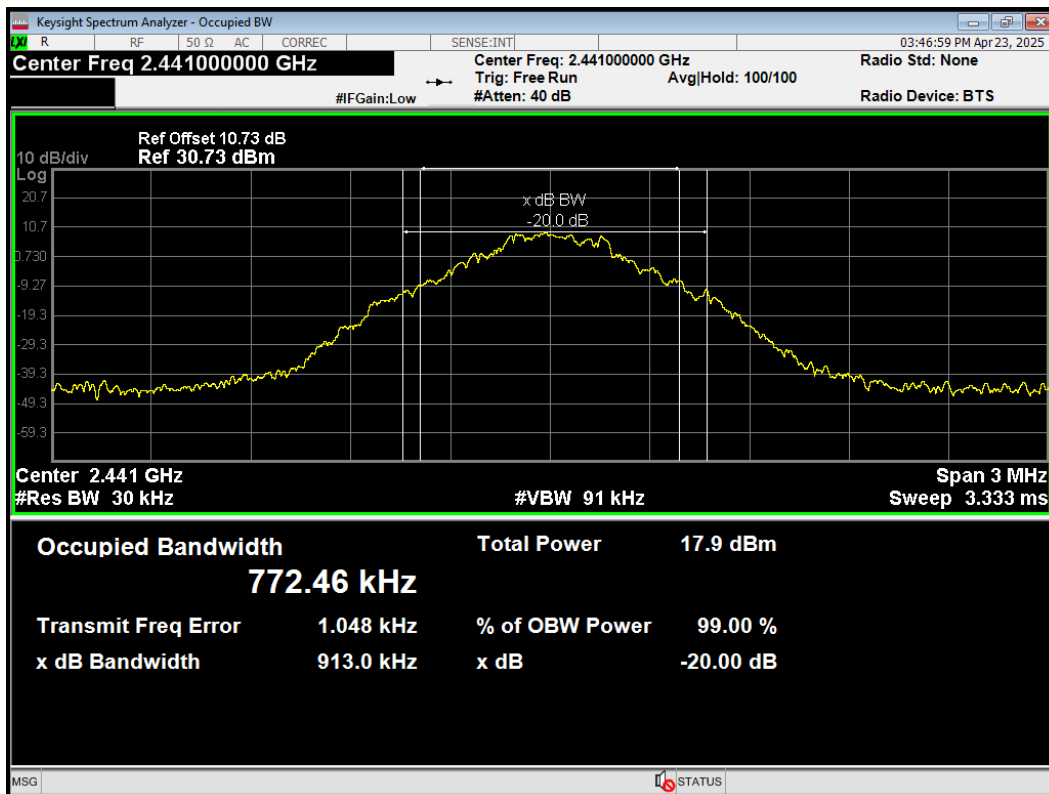
Test Results

Test Mode		Channel	Frequency (MHz)	99% bandwidth (MHz)	20dB Bandwidth (MHz)
Bluetooth	DH5	0	2402	0.770	0.881
		39	2441	0.772	0.913
		78	2480	0.766	0.923
	2DH5	0	2402	1.186	1.314
		39	2441	1.181	1.284
		78	2480	1.178	1.273
	3DH5	0	2402	1.187	1.300
		39	2441	1.178	1.273
		78	2480	1.165	1.284

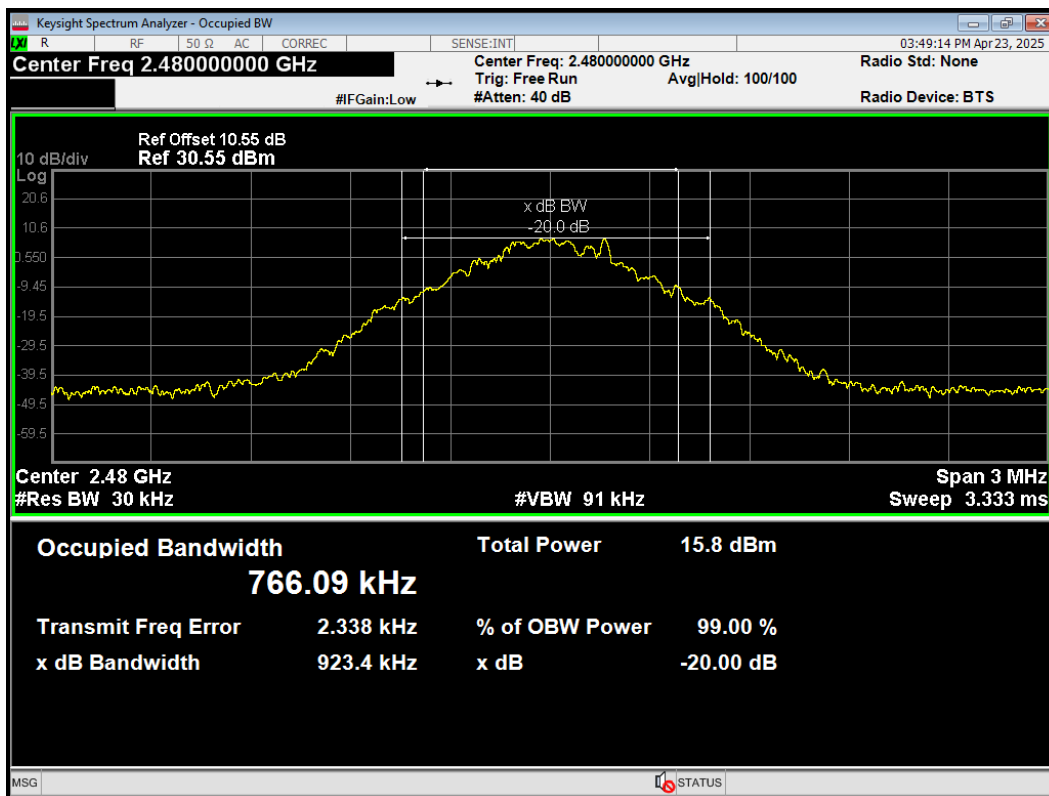
OBW 1-DH5 2402MHz



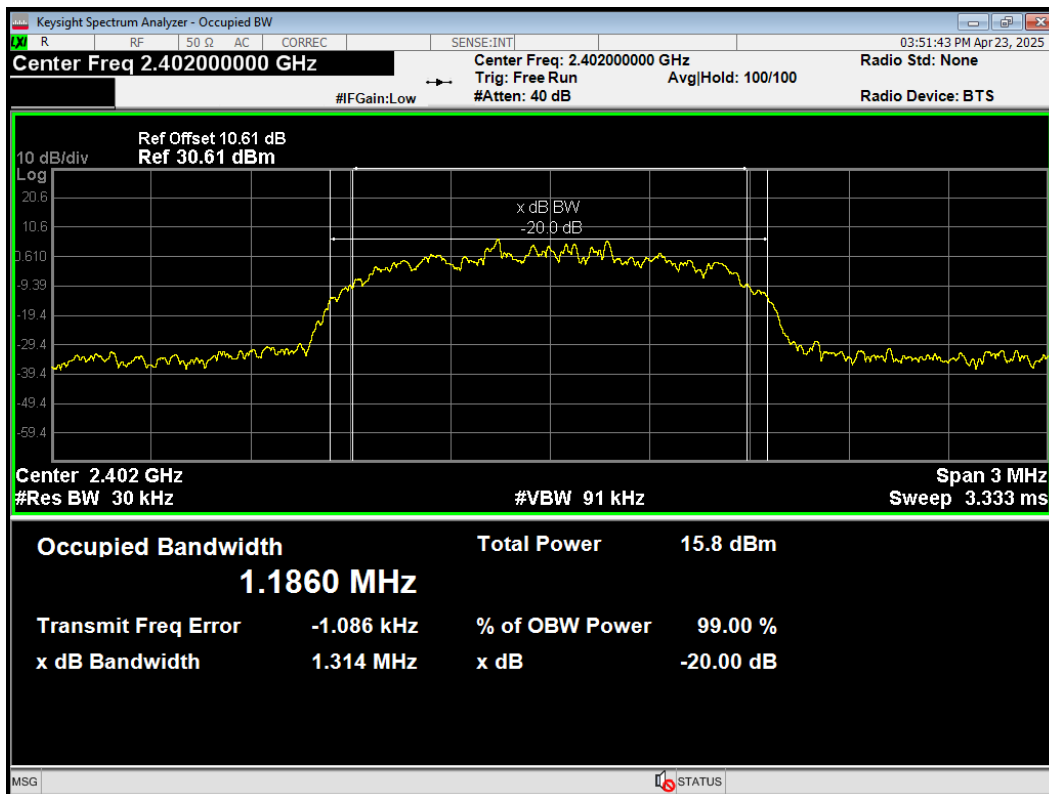
OBW 1-DH5 2441MHz



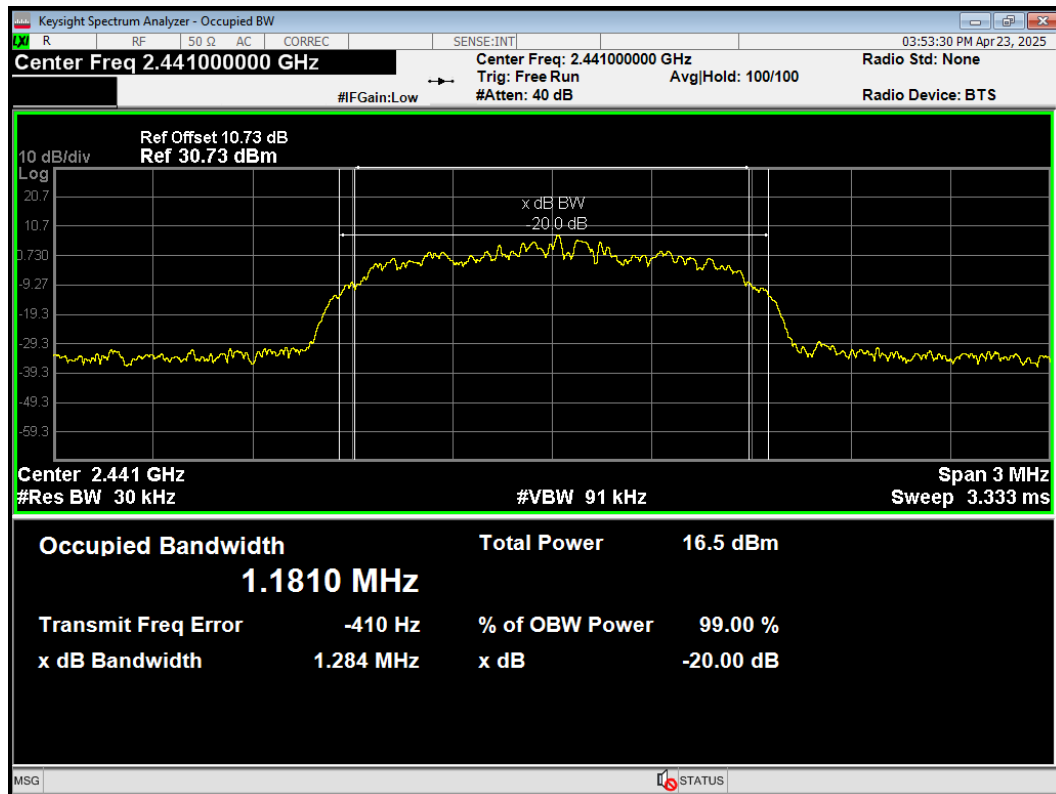
OBW 1-DH5 2480MHz



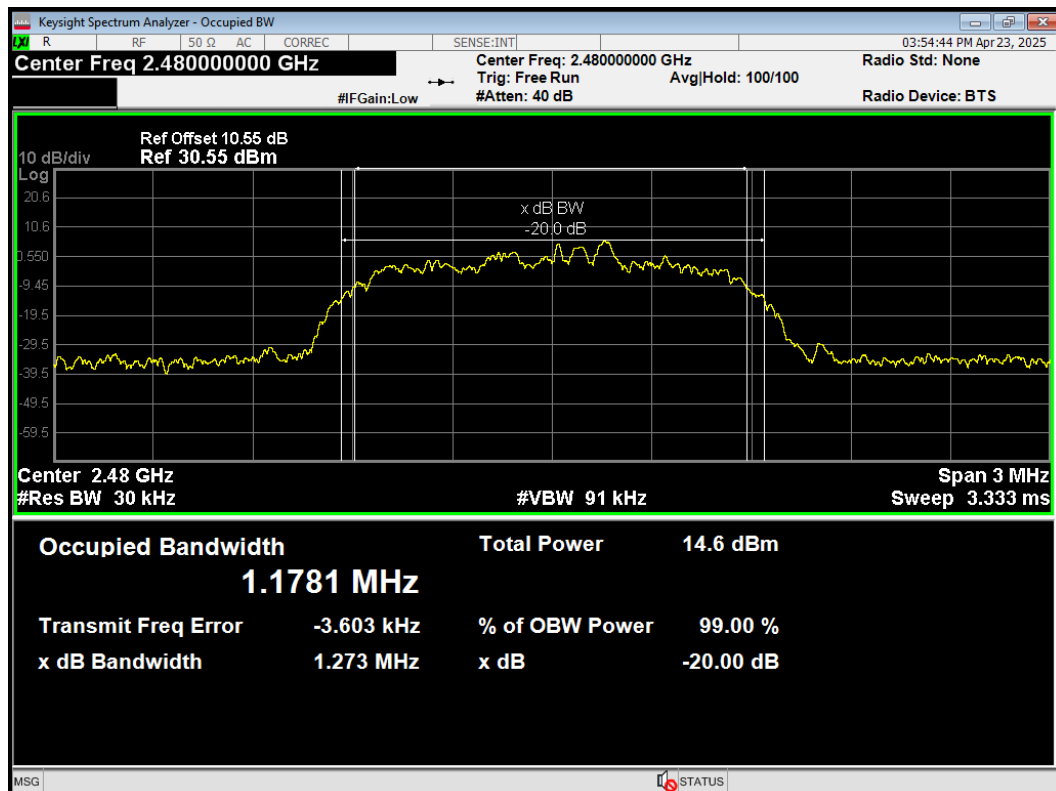
OBW 2-DH5 2402MHz



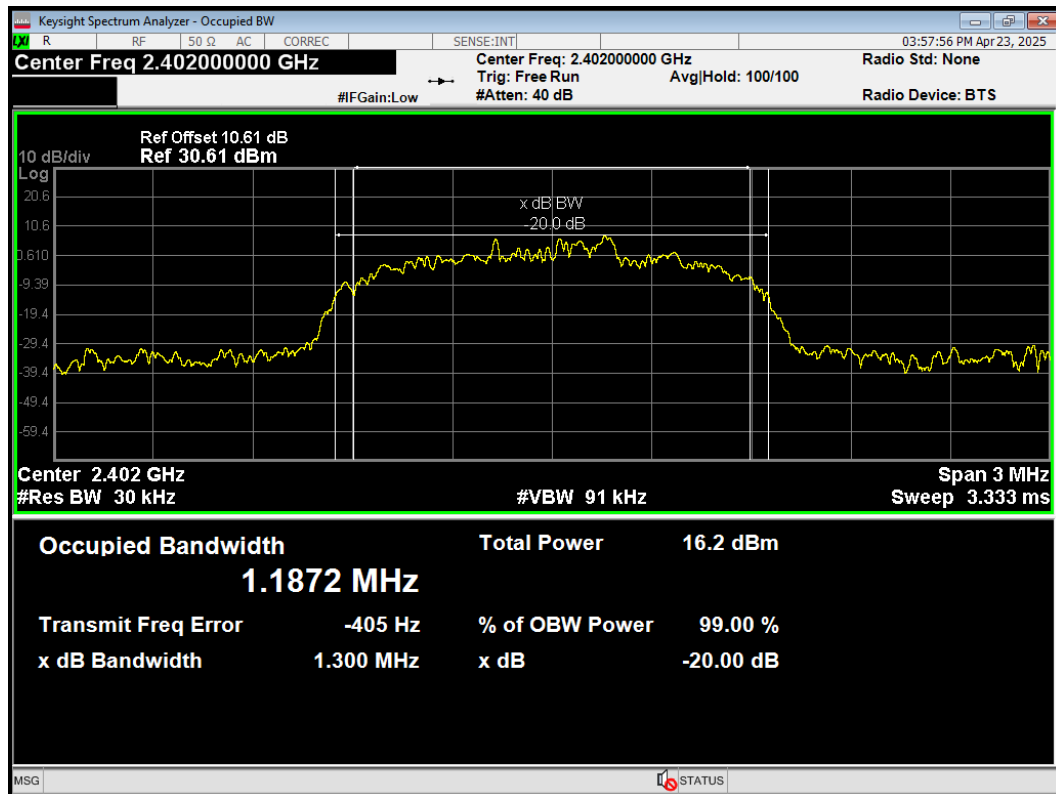
OBW 2-DH5 2441MHz



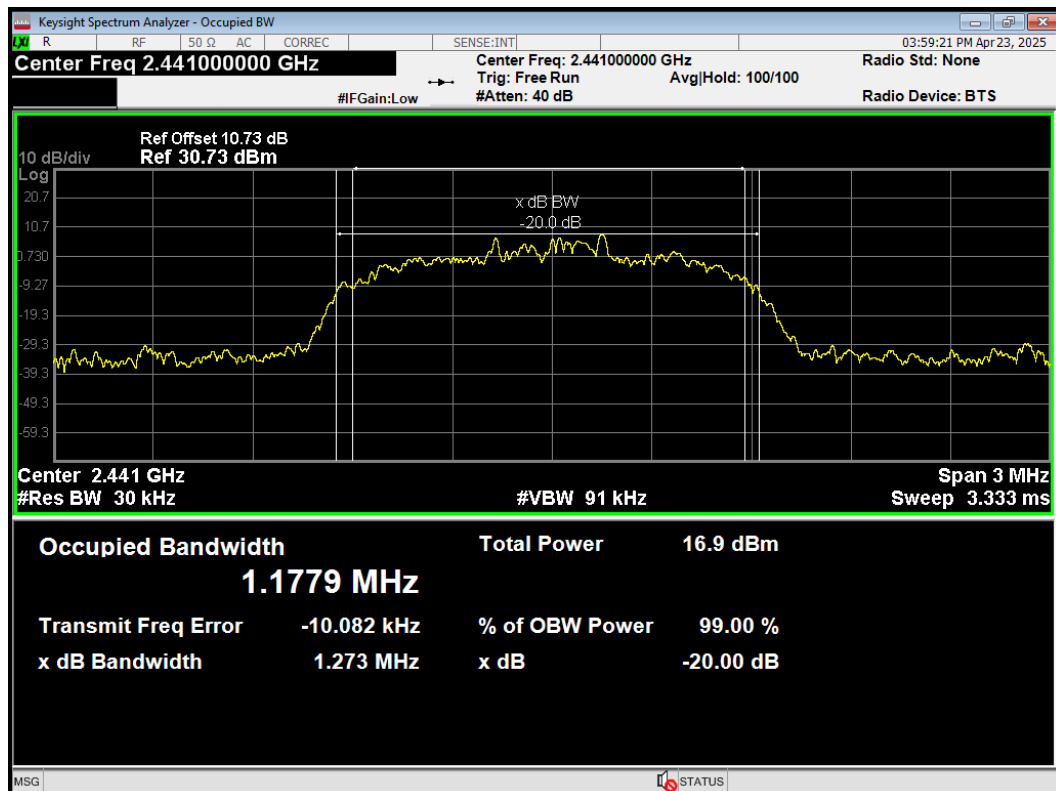
OBW 2-DH5 2480MHz



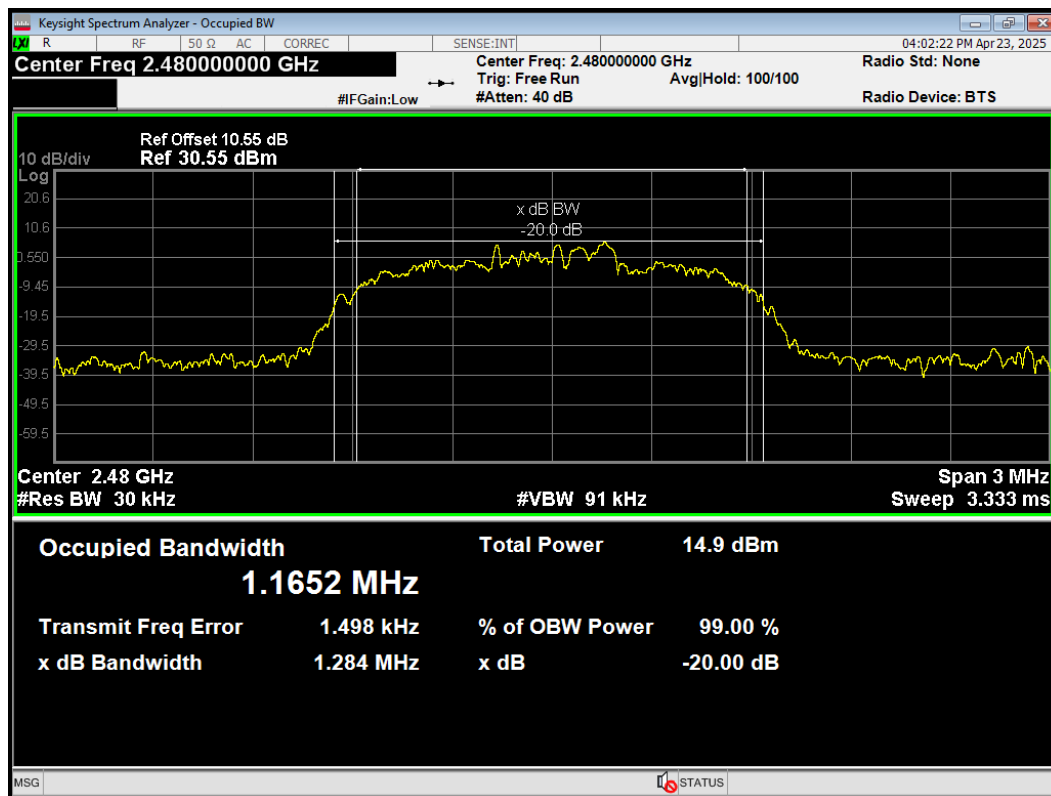
OBW 3-DH5 2402MHz



OBW 3-DH5 2441MHz



OBW 3-DH5 2480MHz



5.3 Frequency Separation

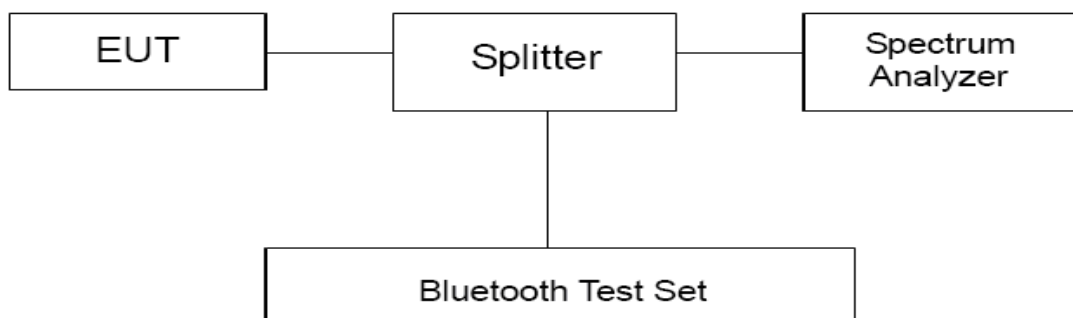
Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. RBW is set to 30 kHz and VBW is set to 100 kHz on spectrum analyzer. Set EUT on Hopping on mode.

Test setup



Limits

Rule Part 15.247(a)(1) specifies that "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. "

Note: The value of two-thirds of 20 dB bandwidth is always greater than 25 kHz.

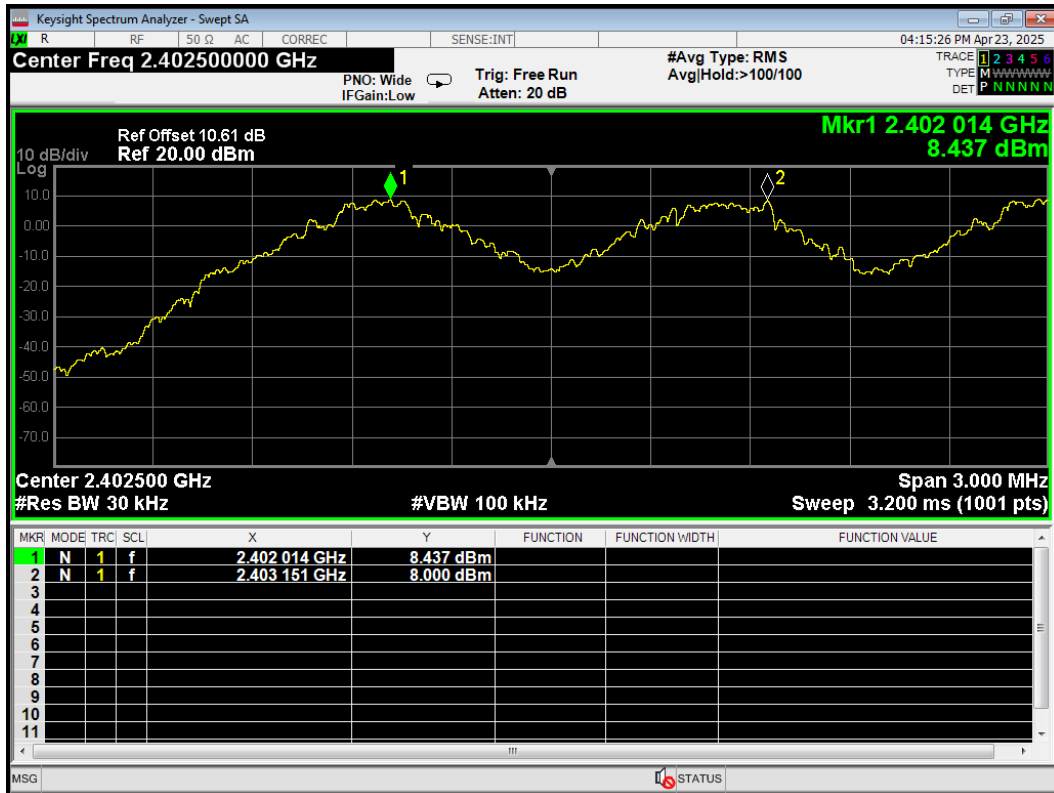
Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=936$ Hz.

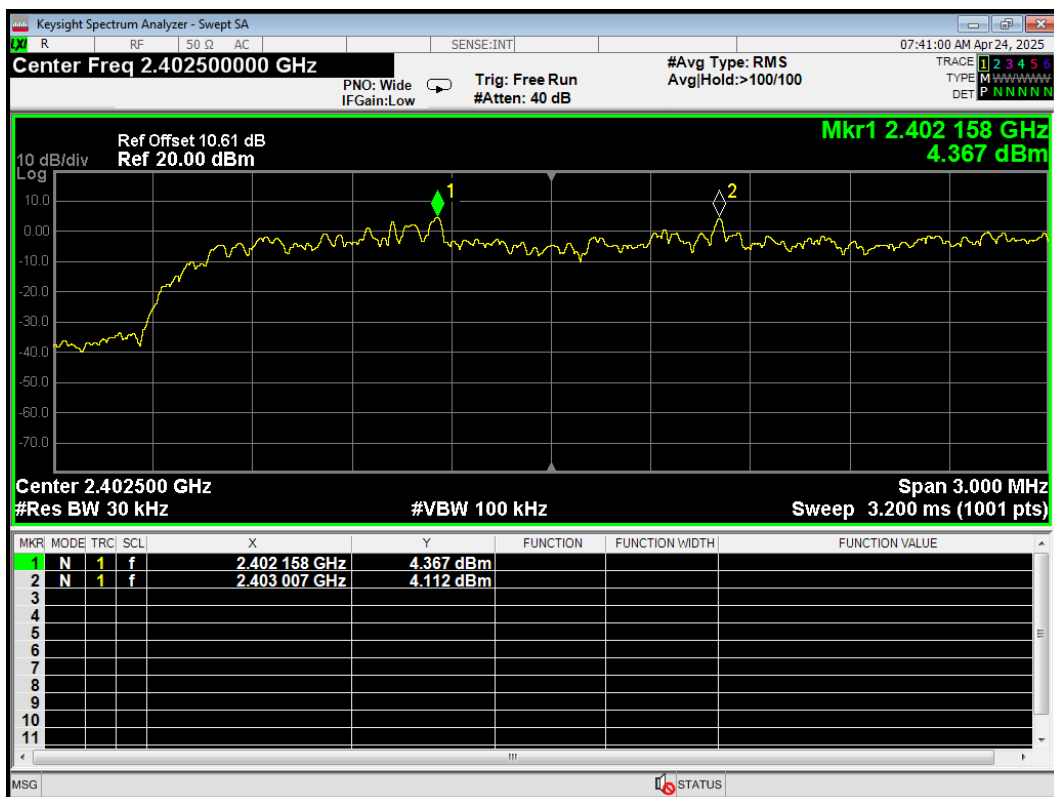
Test Results:

Test Mode	Carrier frequency (MHz)	Carrier frequency separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Conclusion
DH5	2402	1.14	0.881	0.147	PASS
2DH5	2402	0.85	1.314	0.219	PASS
3DH5	2402	0.94	1.300	0.217	PASS
Note: The limit is two-thirds of 20 dB bandwidth.					

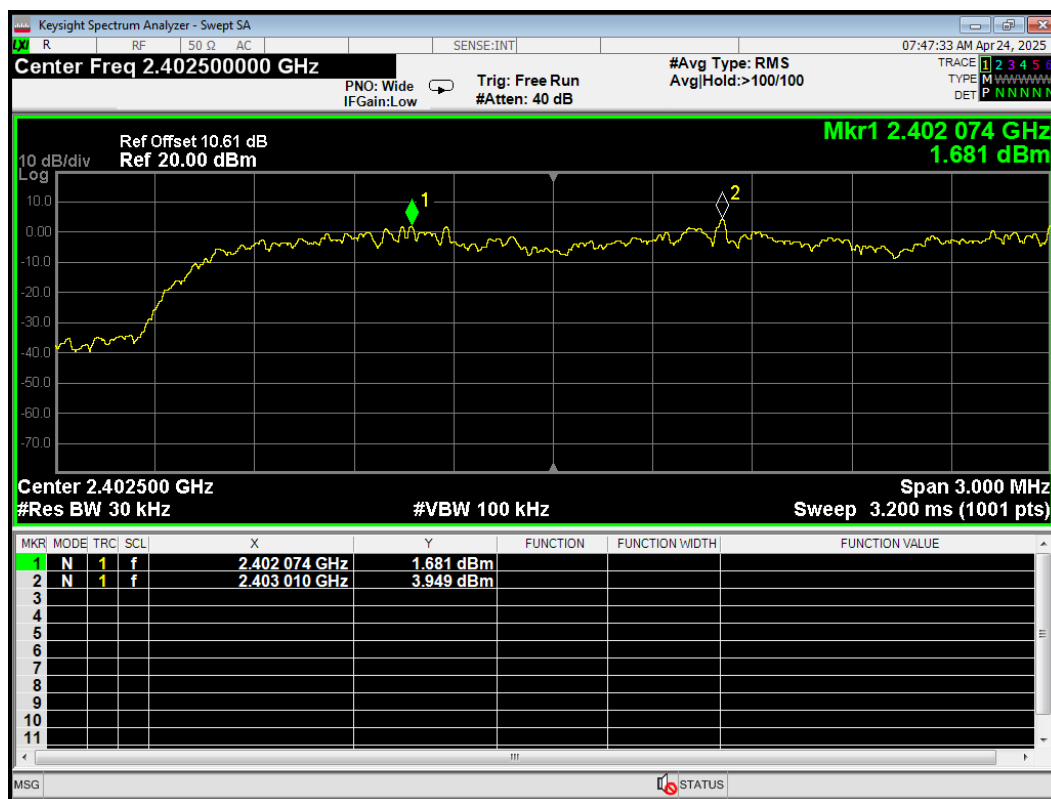
CFS 1-DH5 2402MHz



CFS 2-DH5 2402MHz



CFS 3-DH5 2402MHz



5.4 Time of Occupancy (Dwell Time)

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Methods of Measurement

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. RBW is set to 1MHz and VBW is set to 1MHz on spectrum analyzer. The dwell time is calculated by:

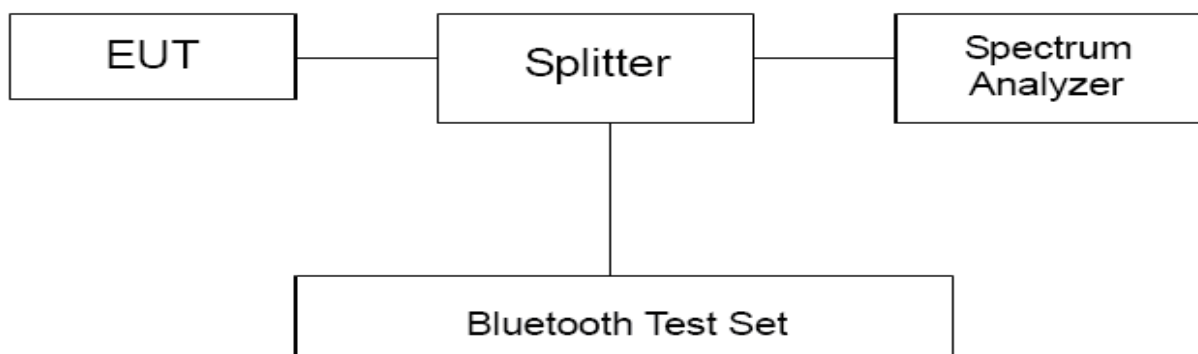
In normal mode: Dwell time = Pulse Time * Number of Pulses in 31.6 seconds.

In AFH mode: Dwell time = Pulse Time * Number of Pulses in 8 seconds

In normal mode, The selected EUT Packet type uses a slot type of DH5 packet and a hopping rate of 1600(ch*hop/s) for all channels. So the final hopping rate for all channel is 1600/5=320(ch*hop/s)

In AFH mode, The selected EUT Packet type uses a slot type of DH5 packet and a hopping rate of 800(ch*hop/s) for all channels. So the final hopping rate for all channel is 800/5=160(ch*hop/s)

Test Setup



Limits

Rule Part15.247(a) specifies that " 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."

Dwell time	≤ 400ms
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$.

Requirements	Uncertainty					
Dwell Time	DH5	$U=0.70\text{ms}$	2DH5	$U=0.70\text{ms}$	3DH5	$U=0.70\text{ms}$

Test Results:

In normal mode:

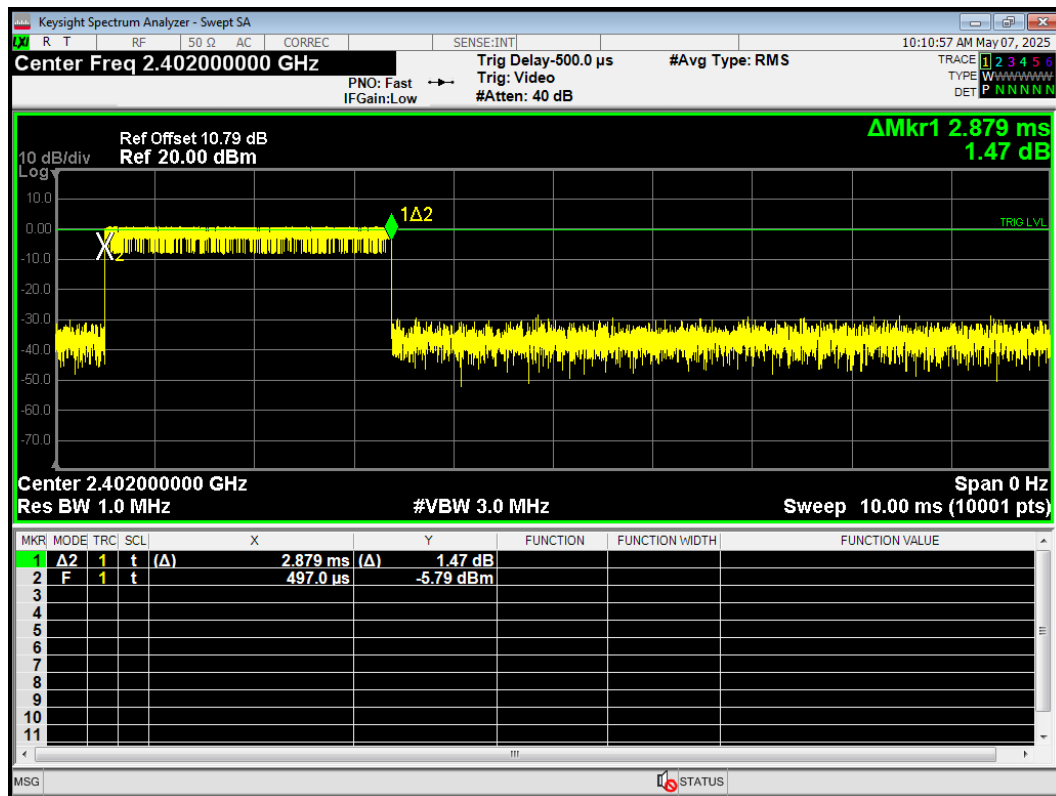
Test Mode	Number of Pulses in 31.6 seconds	Pulse Time (ms)	Dwell time (ms)	Limit (ms)	Conclusion
DH5	89	2.879	256.231	400	PASS
2DH5	104	2.885	300.040	400	PASS
3DH5	98	2.887	282.926	400	PASS
Note: Dwell time = Pulse Time * Number of Pulses in 31.6 seconds					

In AFH mode:

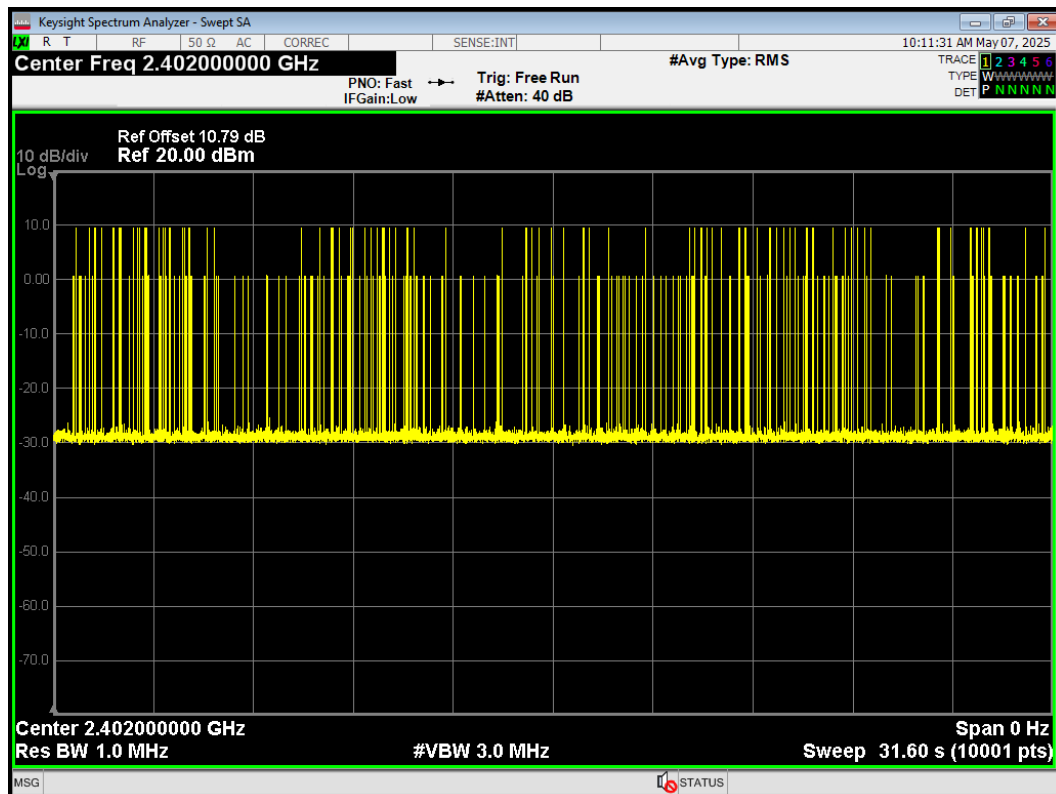
Test Mode	Number of Pulses in 31.6 seconds	Pulse Time (ms)	Dwell time (ms)	Limit (ms)	Conclusion
DH5	92	2.882	265.144	400	PASS
2DH5	86	2.881	247.766	400	PASS
3DH5	89	2.886	256.854	400	PASS
Note: Dwell time = Pulse Time * Number of Pulses in 8 seconds					

In normal mode

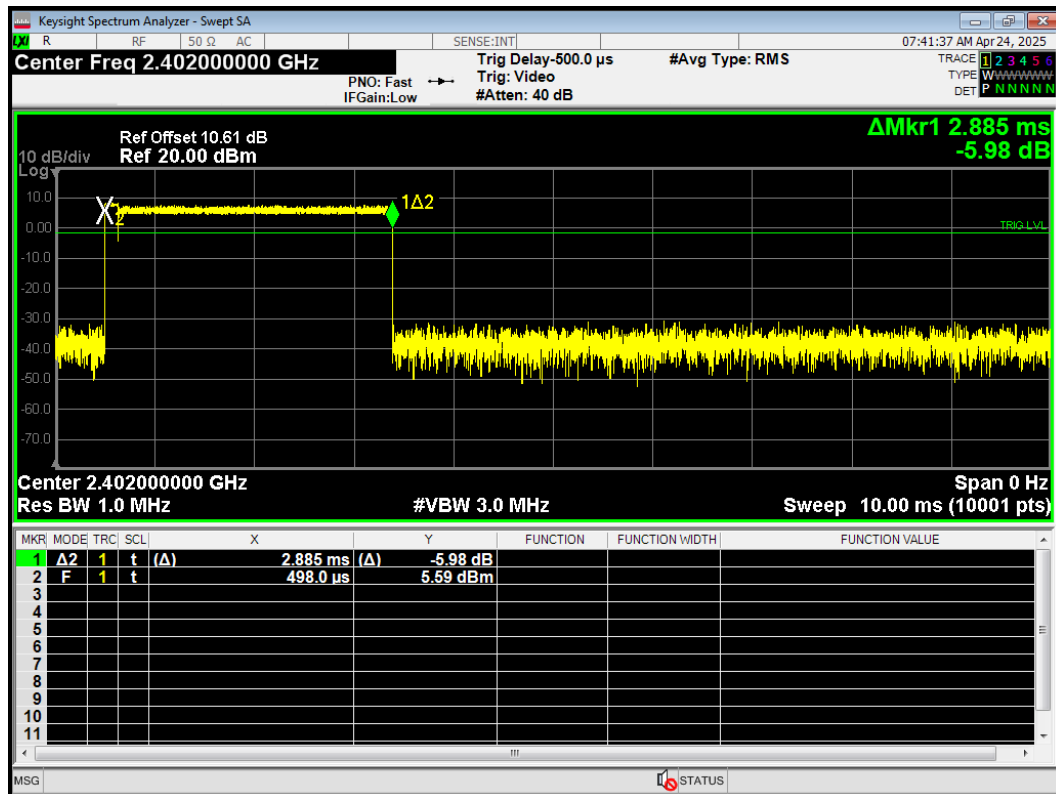
Dwell 1-DH5 2402MHz One Burst



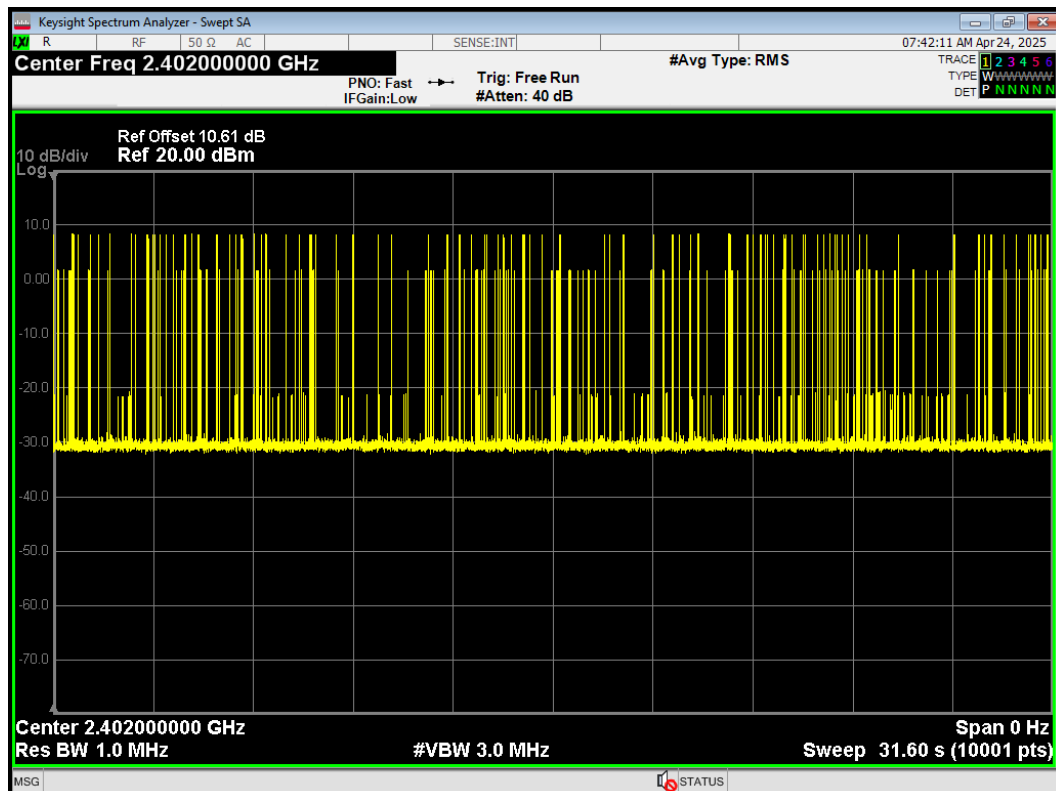
Dwell 1-DH5 2402MHz Accumulated



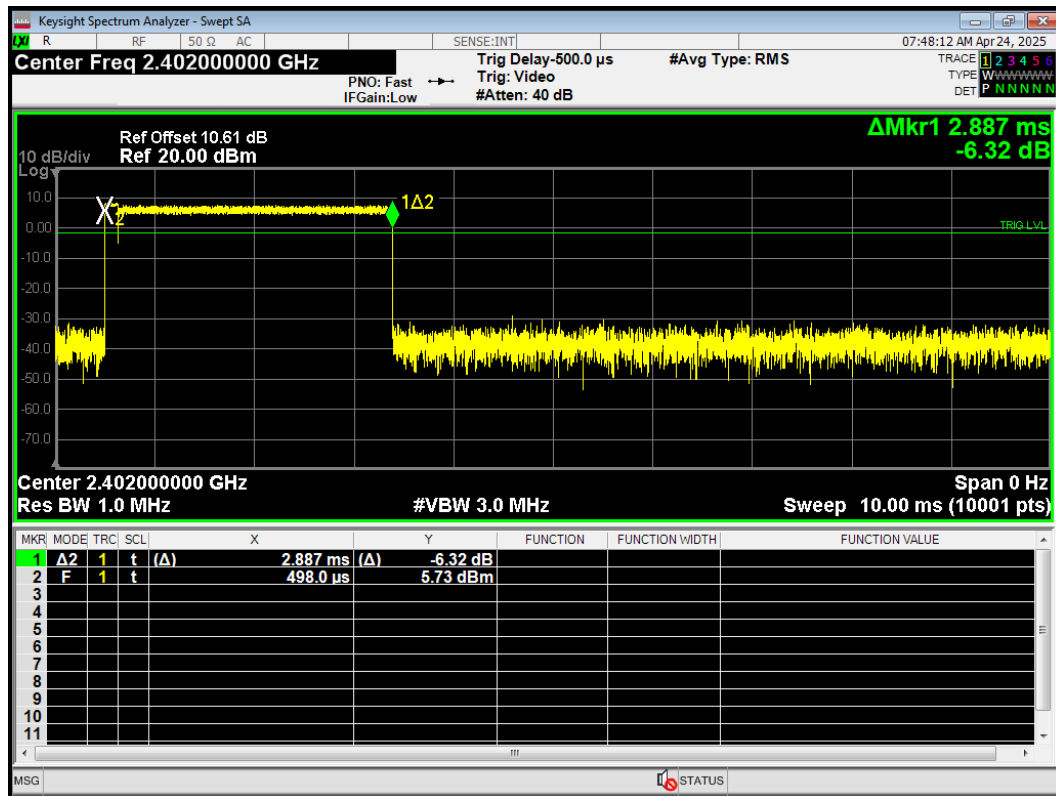
Dwell 2-DH5 2402MHz One Burst



Dwell 2-DH5 2402MHz Accumulated



Dwell 3-DH5 2402MHz One Burst

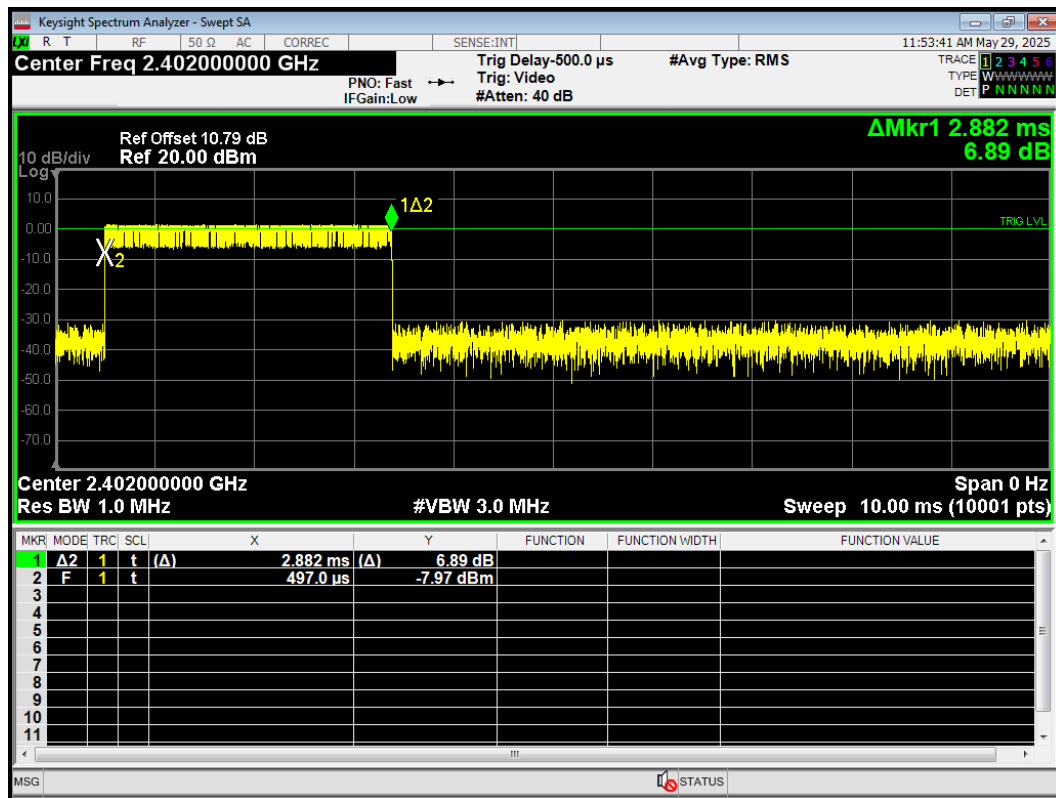


Dwell 3-DH5 2402MHz Accumulated

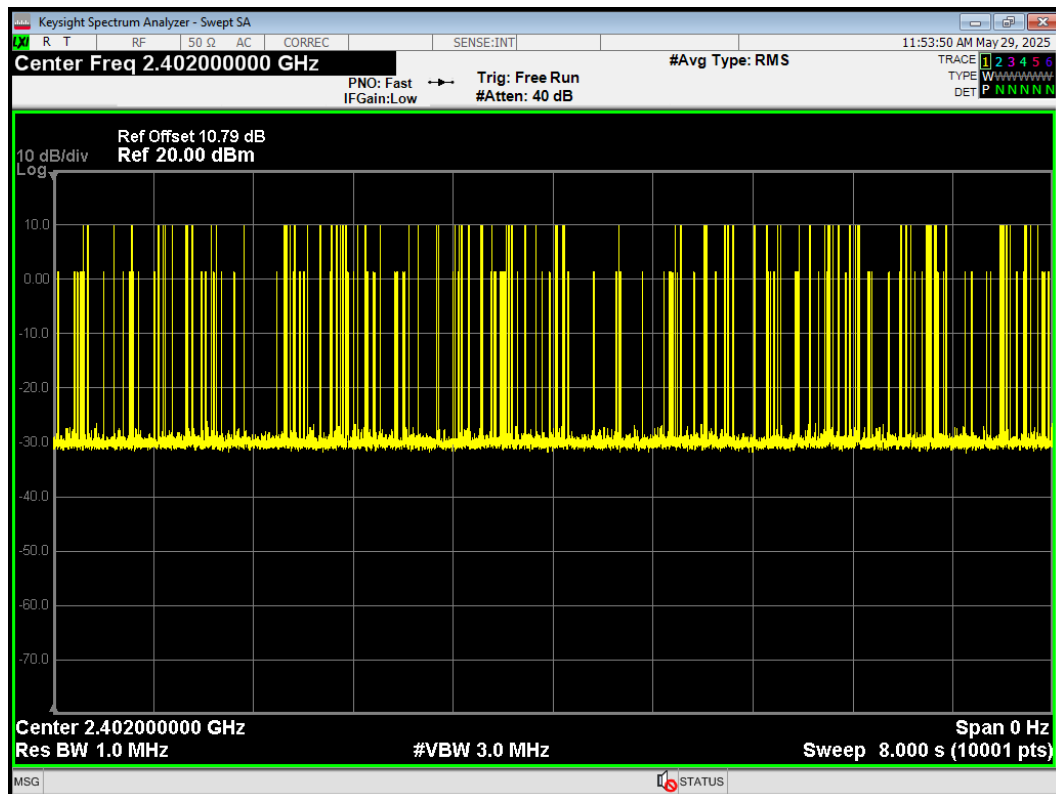


In AFH mode

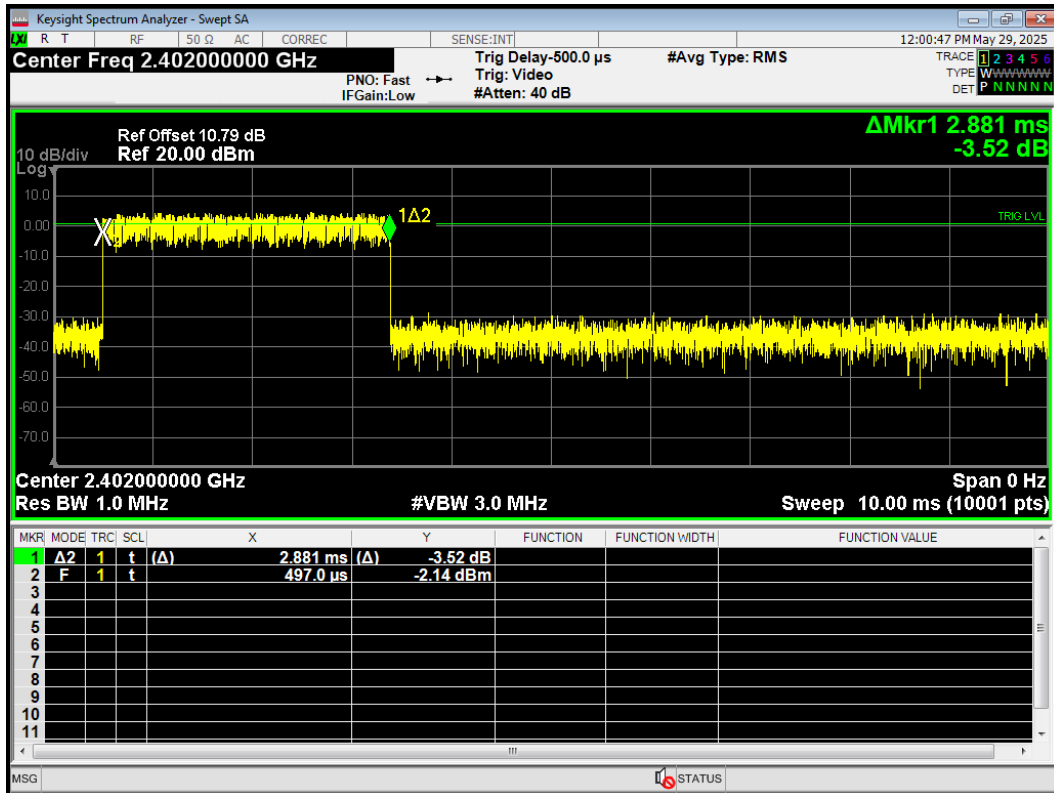
Dwell 1-DH5 2402MHz One Burst



Dwell 1-DH5 2402MHz Accumulated



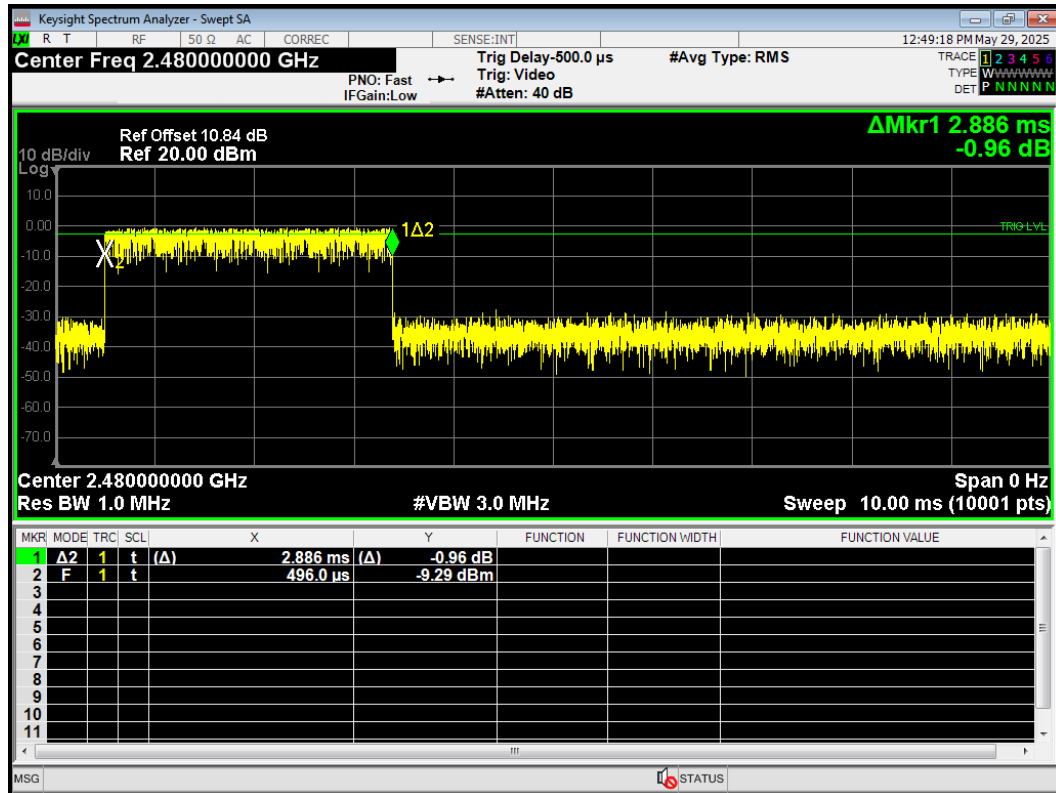
Dwell 2-DH5 2402MHz One Burst



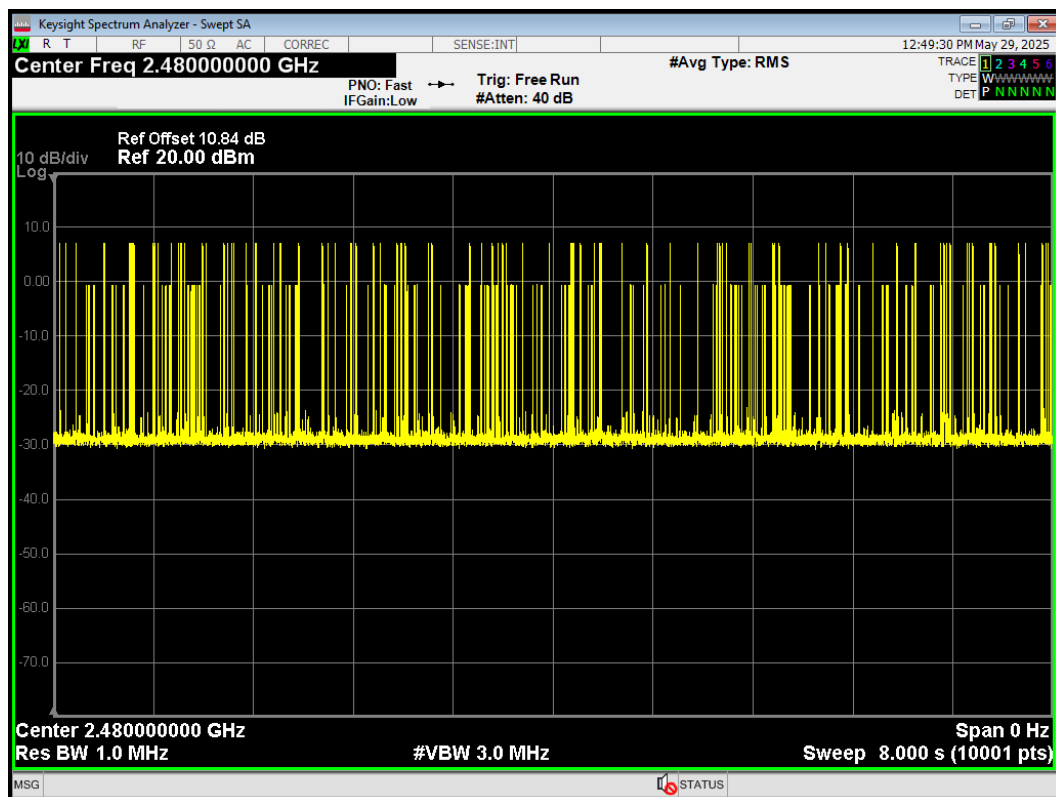
Dwell 2-DH5 2402MHz Accumulated



Dwell 3-DH5 2402MHz One Burst



Dwell 3-DH5 2402MHz Accumulated



5.5 Band Edge Compliance

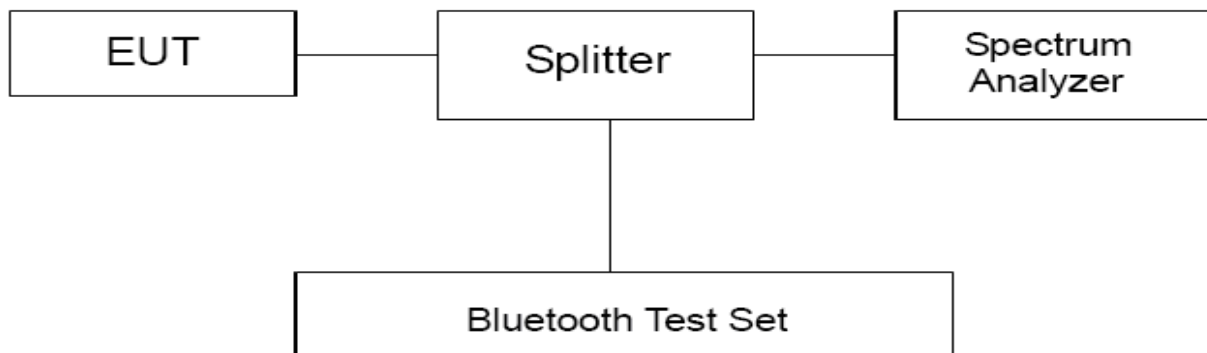
Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. The lowest and highest channels were measured. The peak detector is used. RBW is set to 100 kHz and VBW is set to 300 kHz on spectrum analyzer. EUT test for Hopping On mode and Hopping Off mode.

Test Setup



Limits

Rule Part 15.247(d) specifies that “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.”

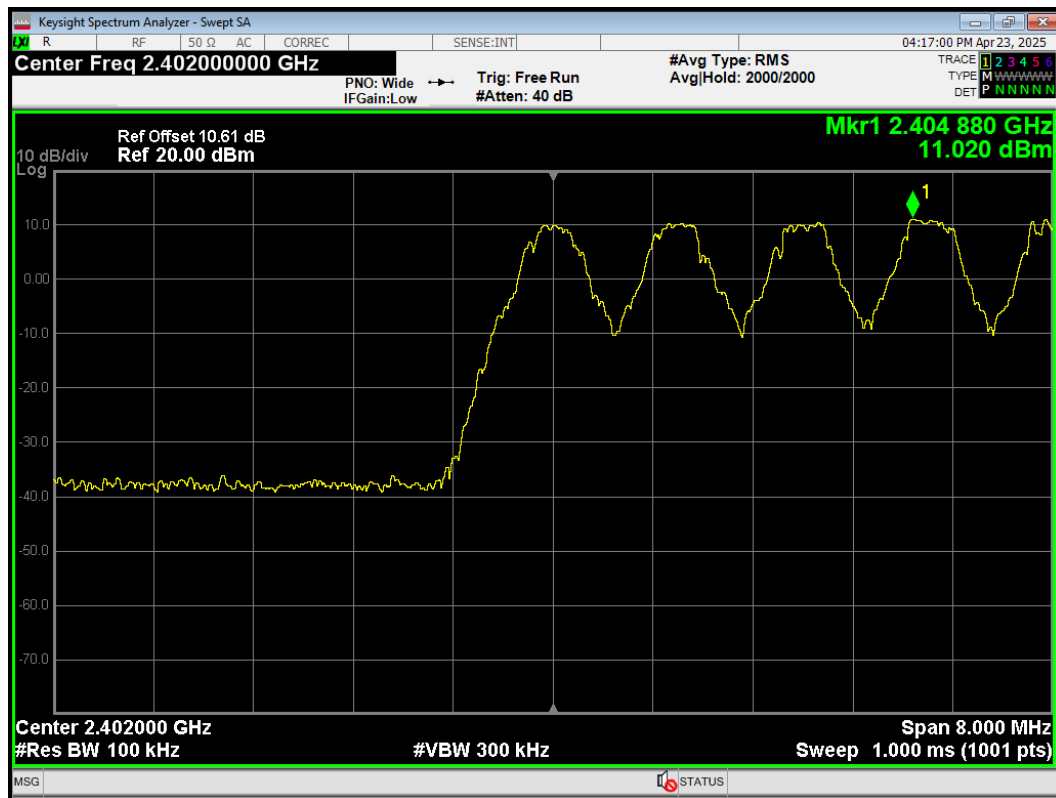
Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

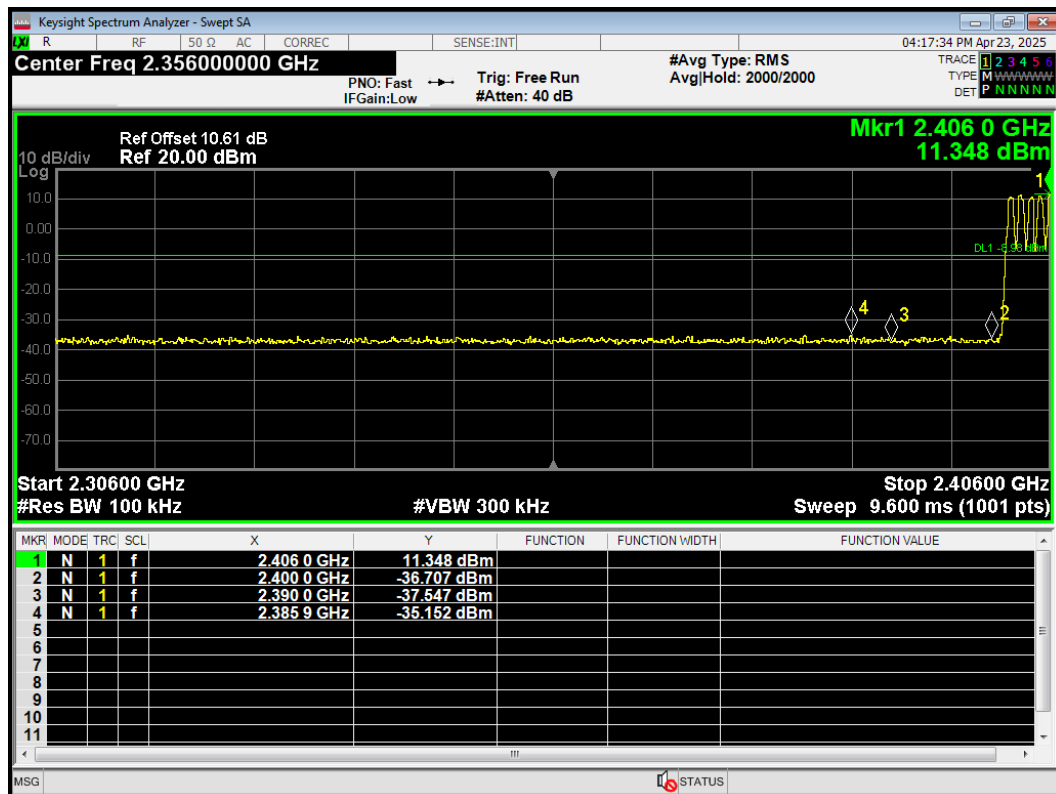
Frequency	Uncertainty
2GHz-3GHz	1.407 dB

Test Results

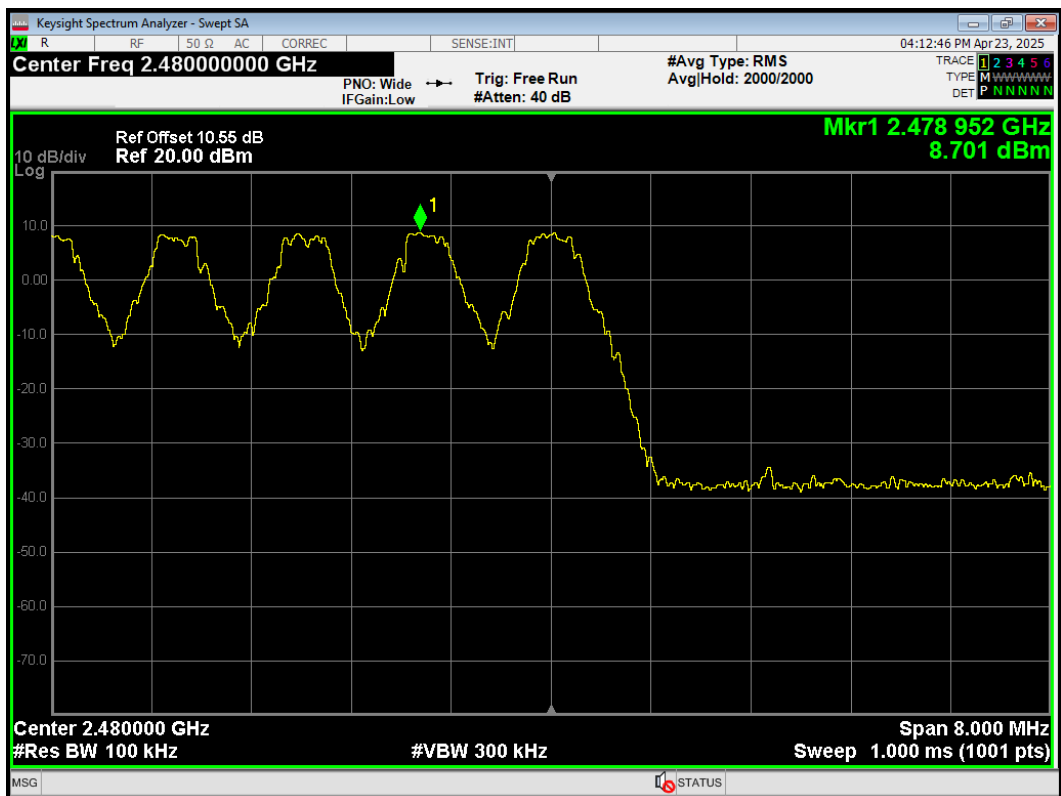
Band Edge(Hopping) 1-DH5 2402MHz Hopping Ref



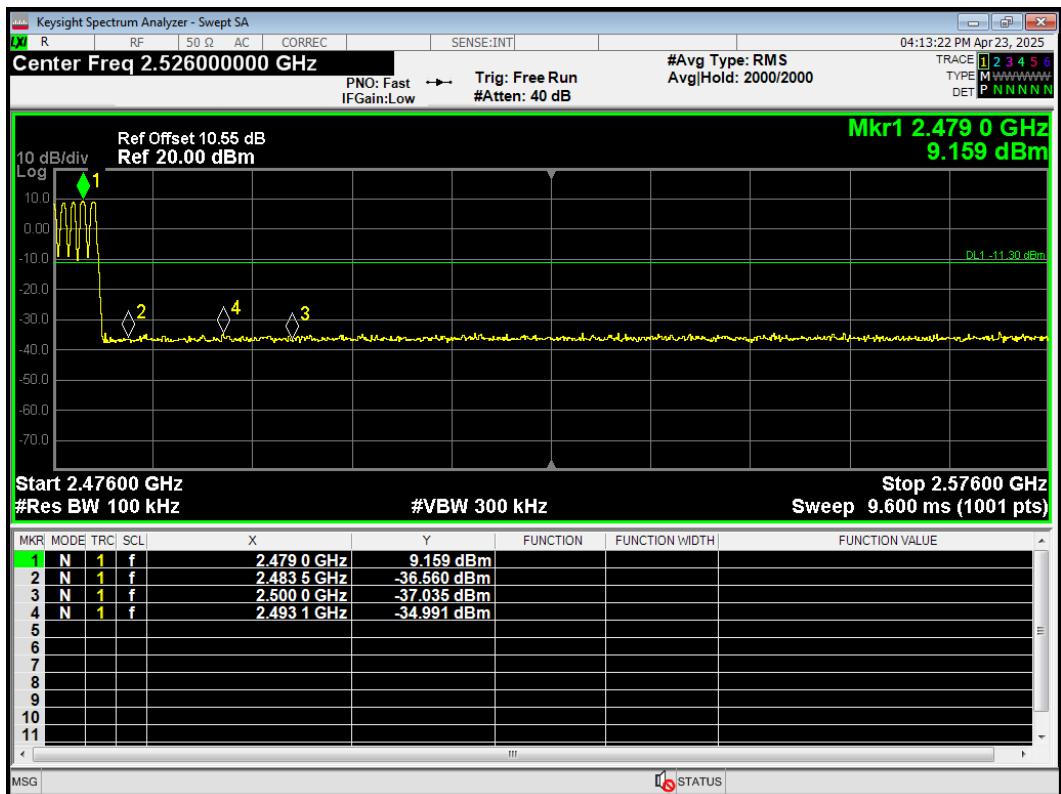
Band Edge(Hopping) 1-DH5 2402MHz Hopping Emission



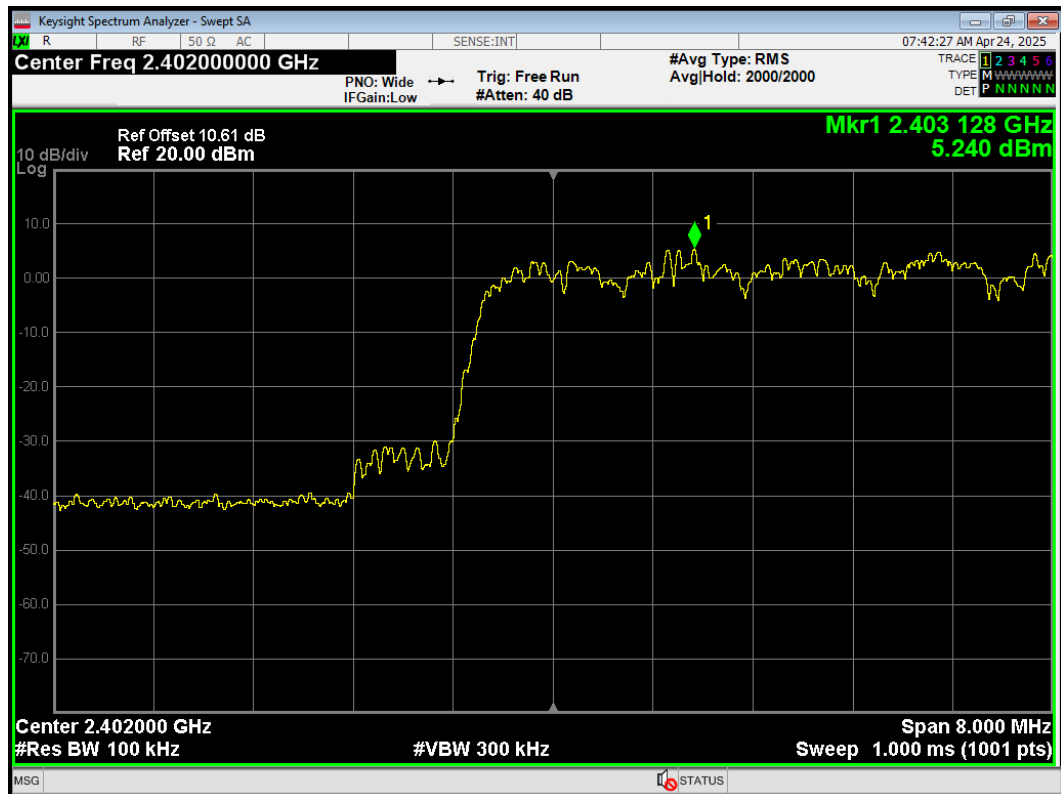
Band Edge(Hopping) 1-DH5 2480MHz Hopping Ref



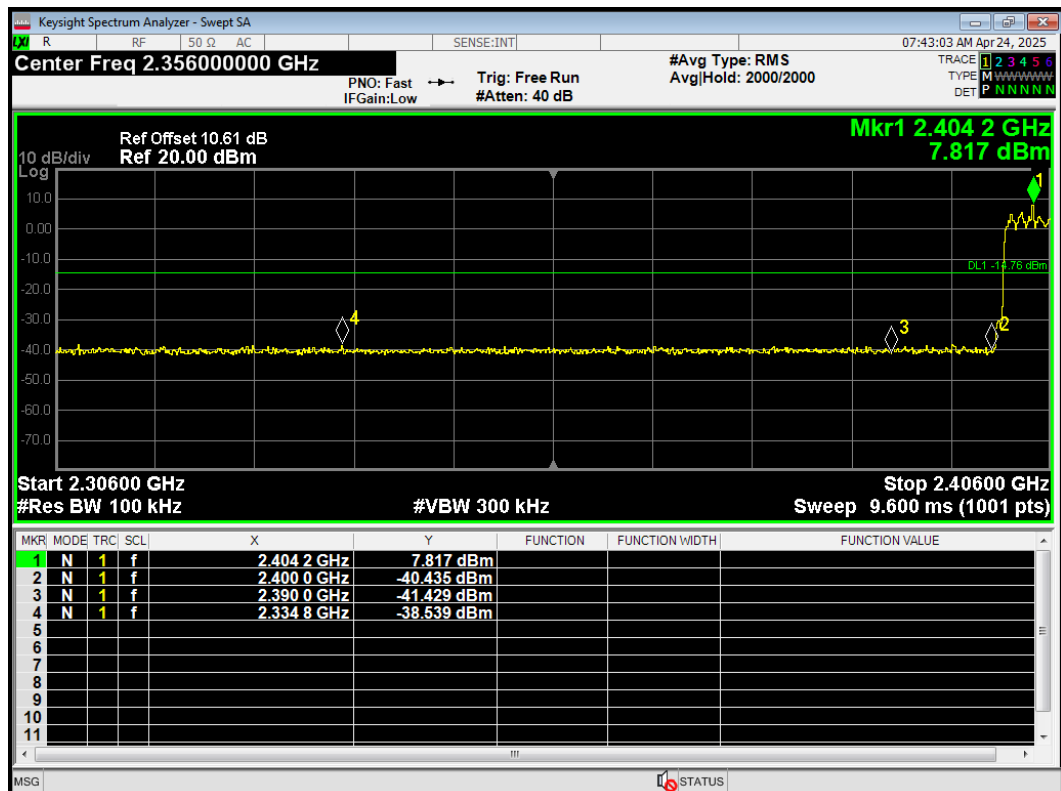
Band Edge(Hopping) 1-DH5 2480MHz Hopping Emission



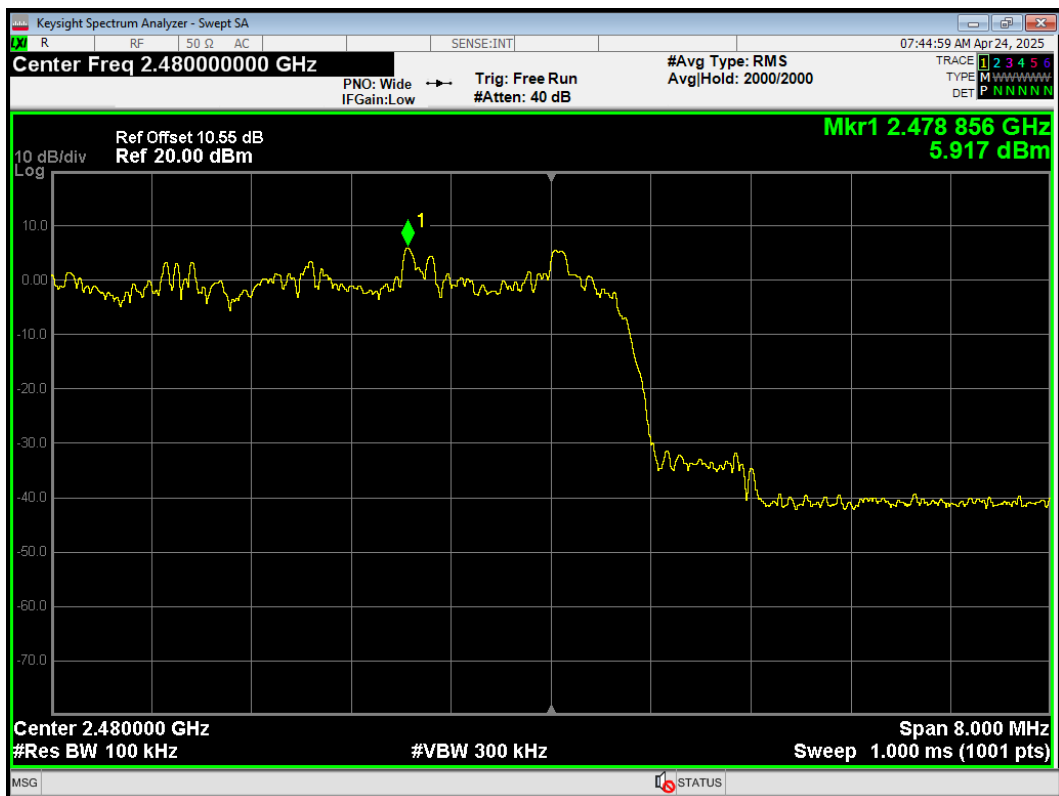
Band Edge(Hopping) 2-DH5 2402MHz Hopping Ref



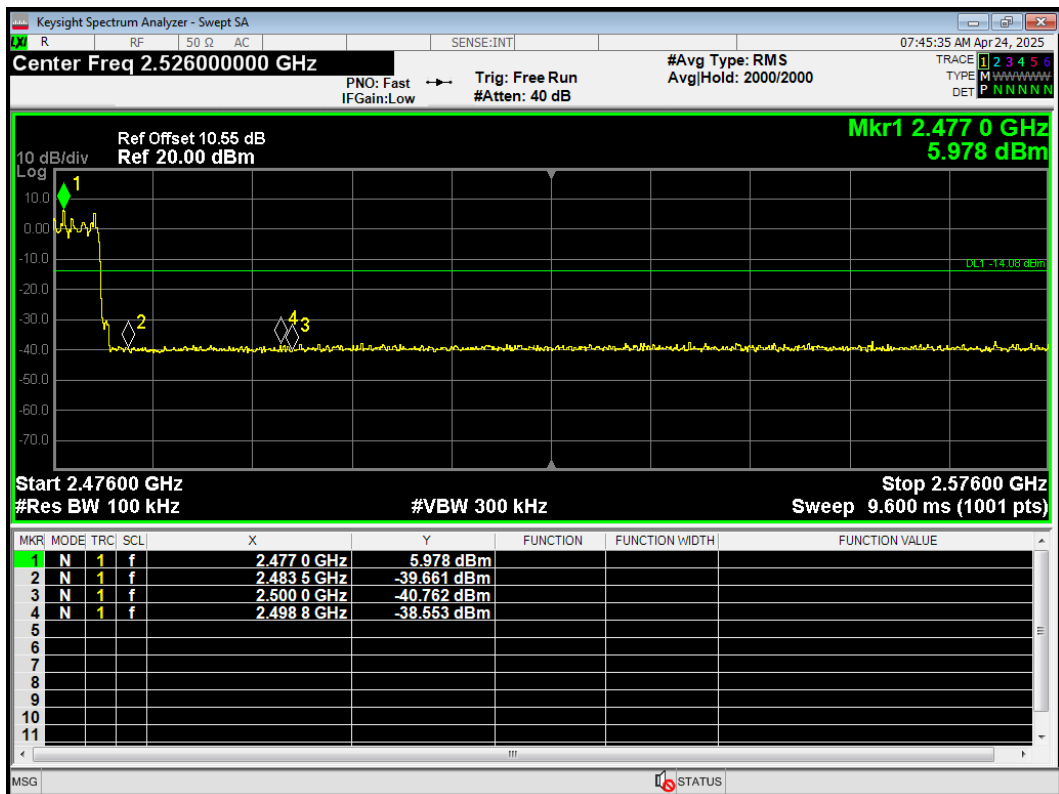
Band Edge(Hopping) 2-DH5 2402MHz Hopping Emission



Band Edge(Hopping) 2-DH5 2480MHz Hopping Ref



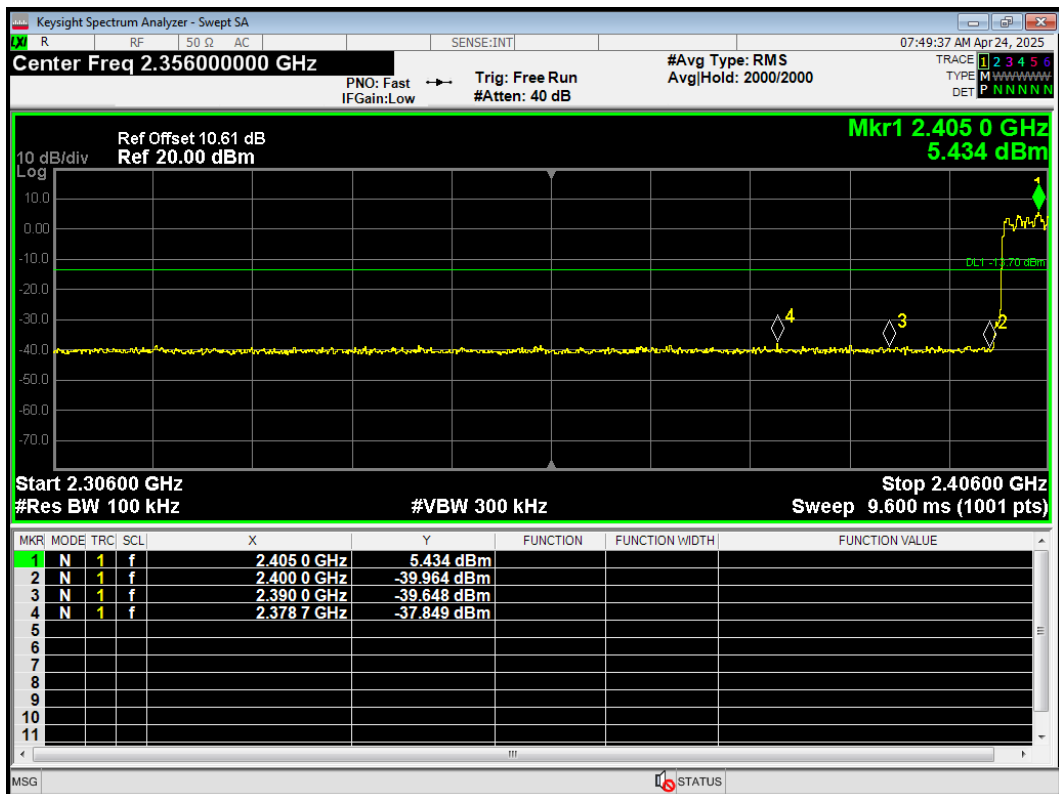
Band Edge(Hopping) 2-DH5 2480MHz Hopping Emission



Band Edge(Hopping) 3-DH5 2402MHz Hopping Ref



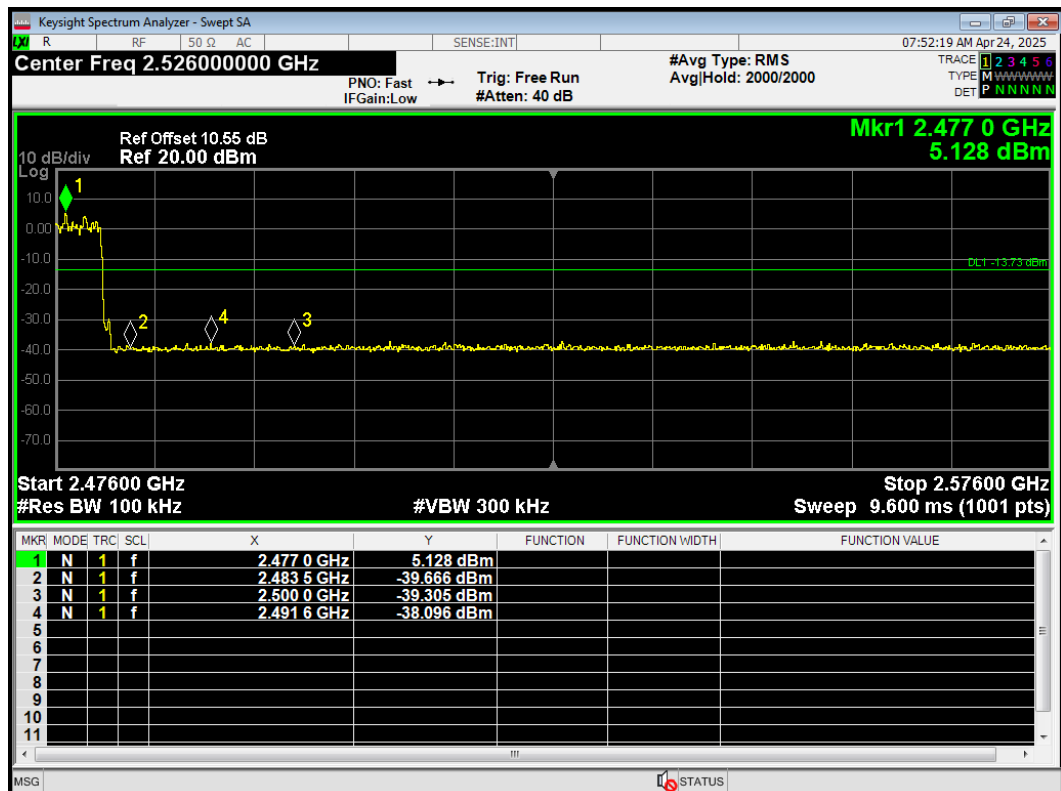
Band Edge(Hopping) 3-DH5 2402MHz Hopping Emission



Band Edge(Hopping) 3-DH5 2480MHz Hopping Ref

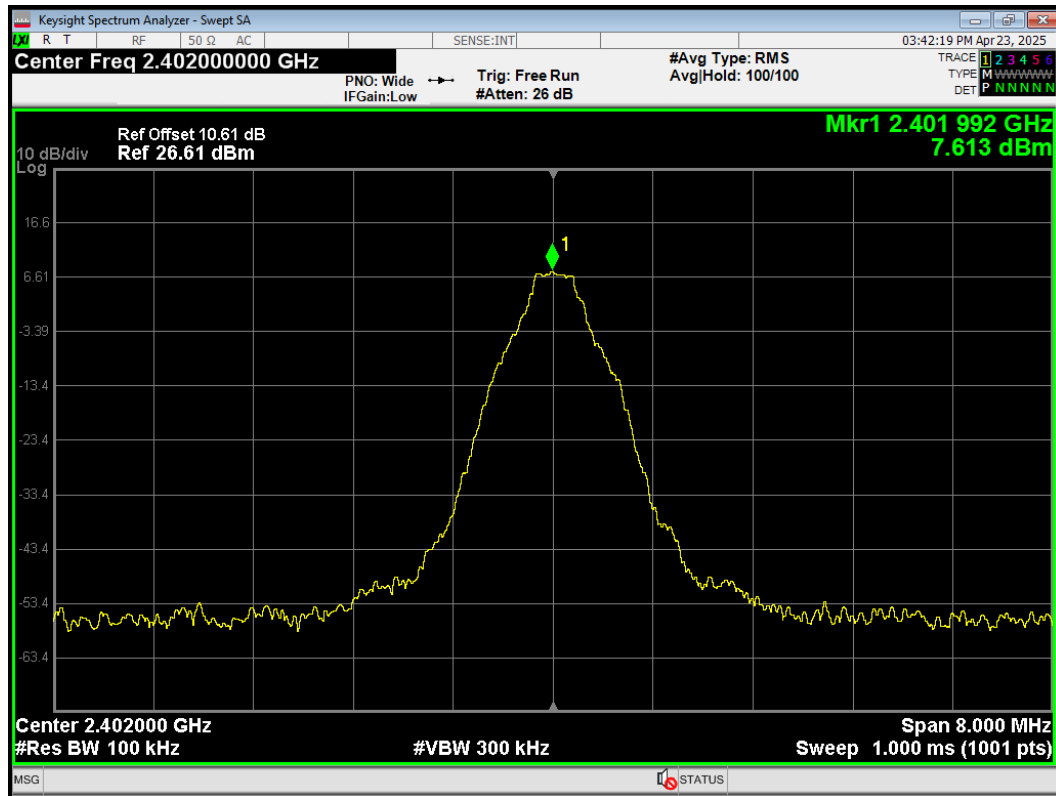


Band Edge(Hopping) 3-DH5 2480MHz Hopping Emission

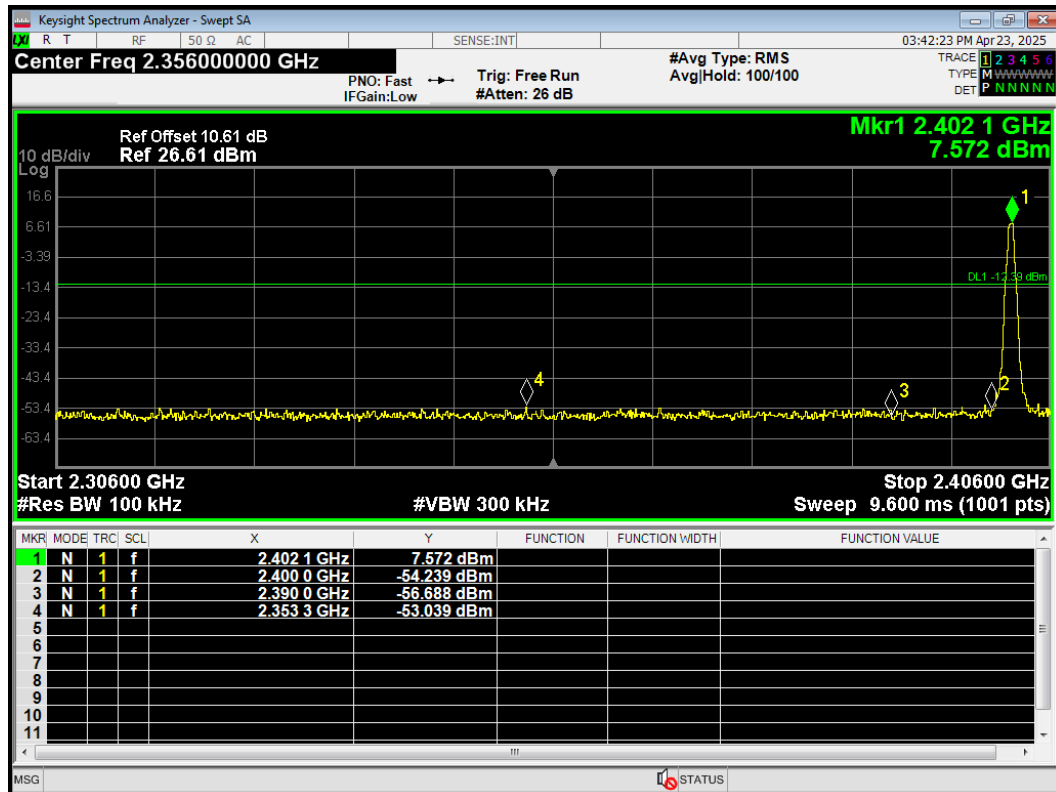


Hopping Off

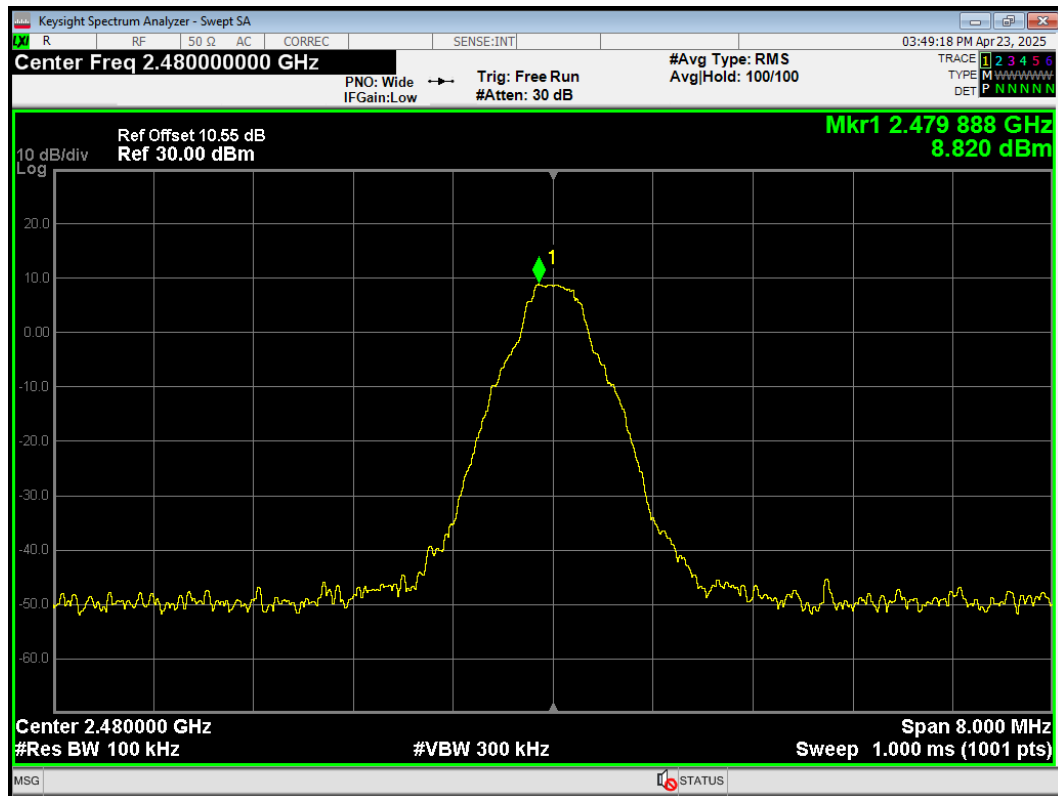
Band Edge 1-DH5 2402MHz No-Hopping Ref



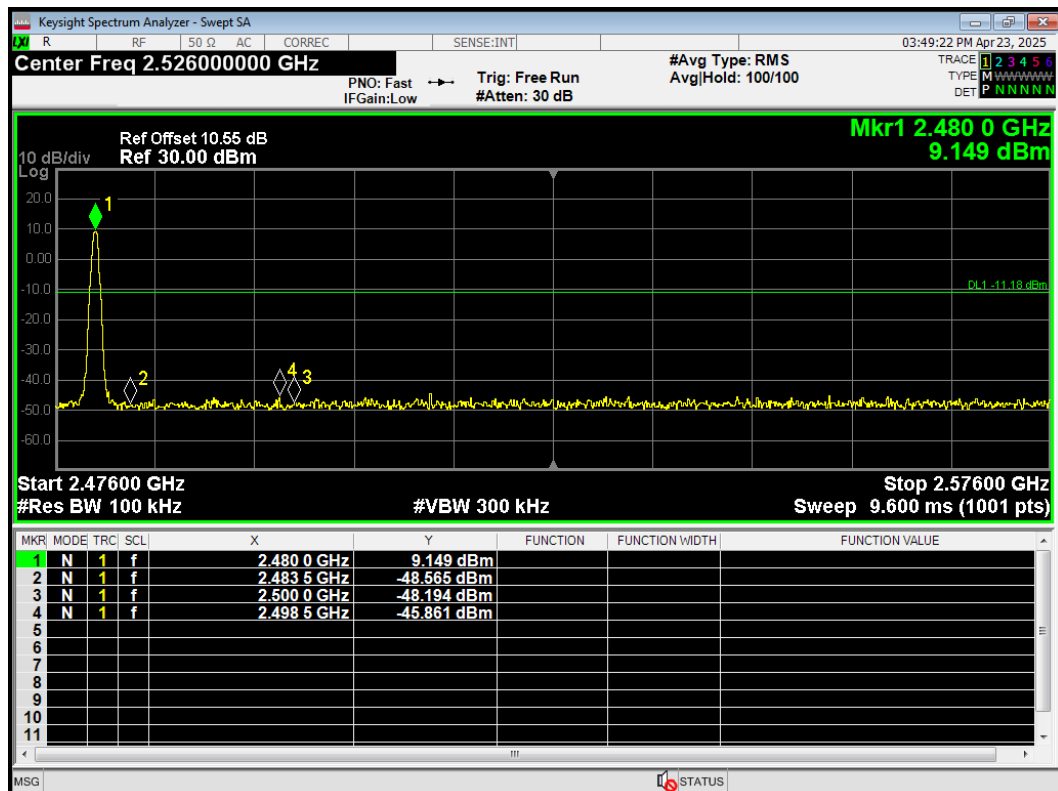
Band Edge 1-DH5 2402MHz No-Hopping Emission



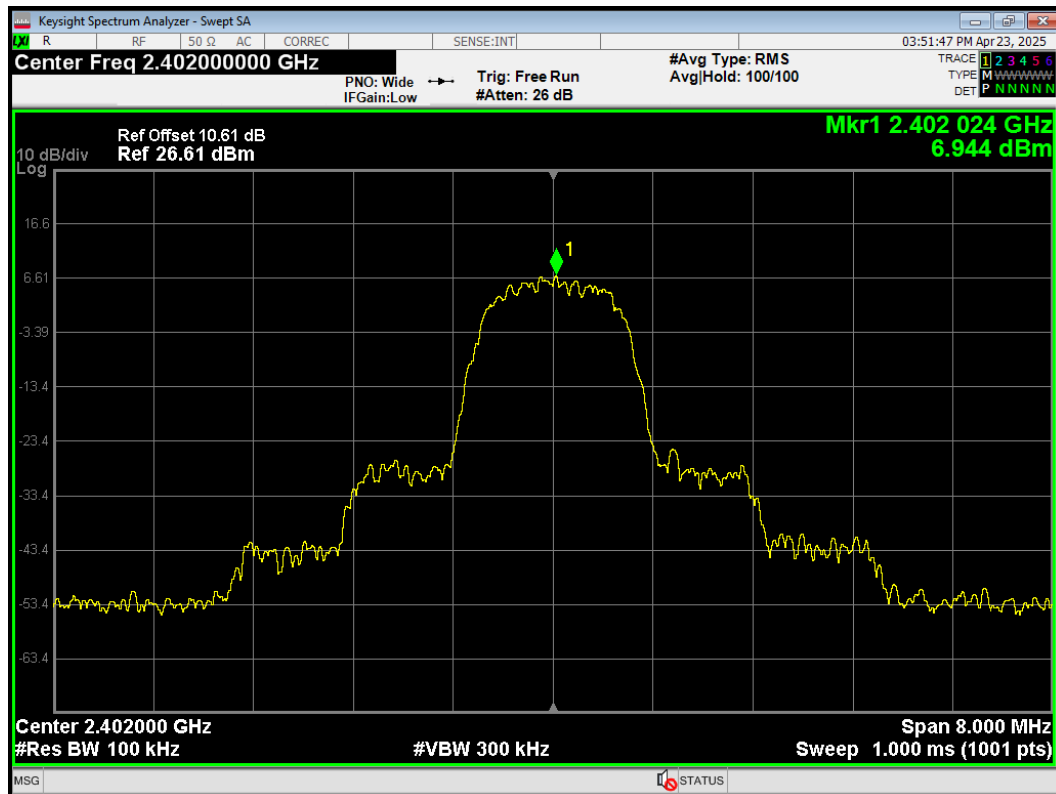
Band Edge 1-DH5 2480MHz No-Hopping Ref



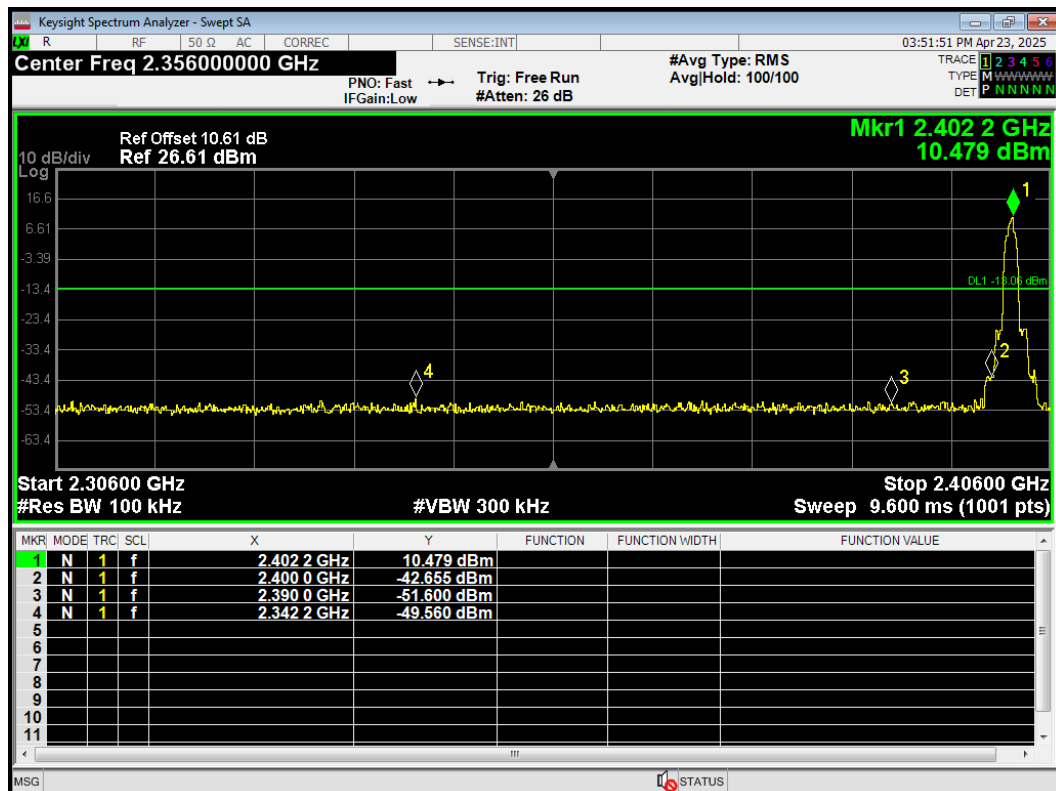
Band Edge 1-DH5 2480MHz No-Hopping Emission



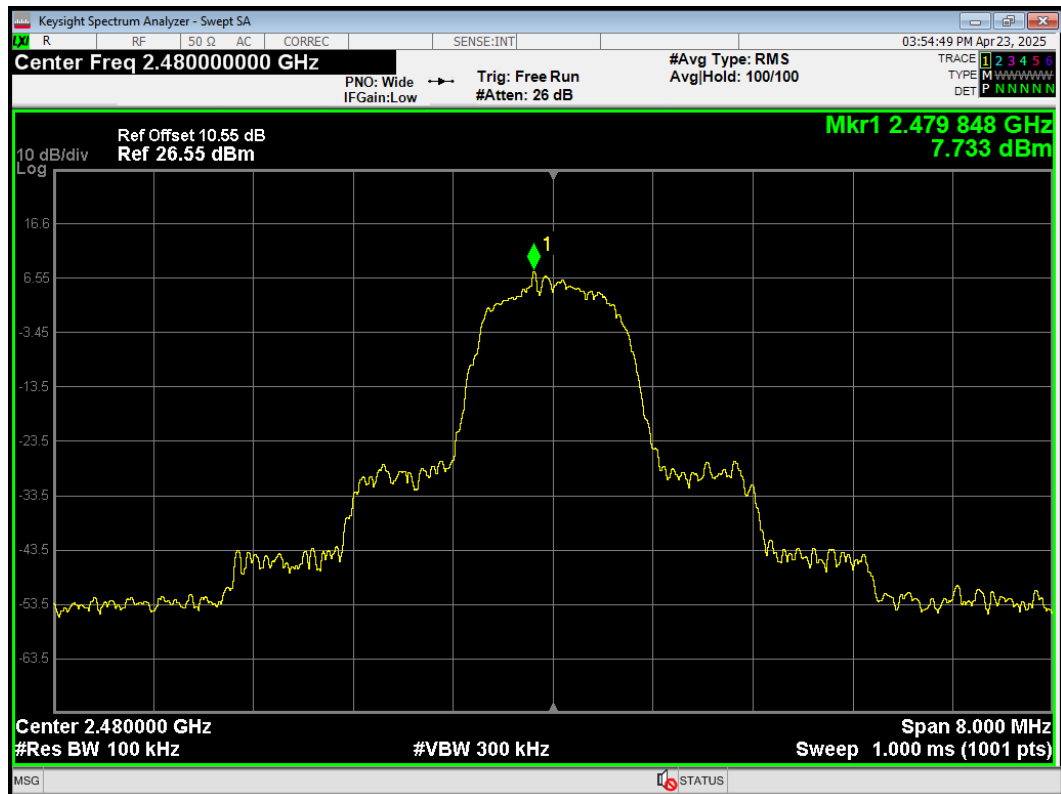
Band Edge 2-DH5 2402MHz No-Hopping Ref



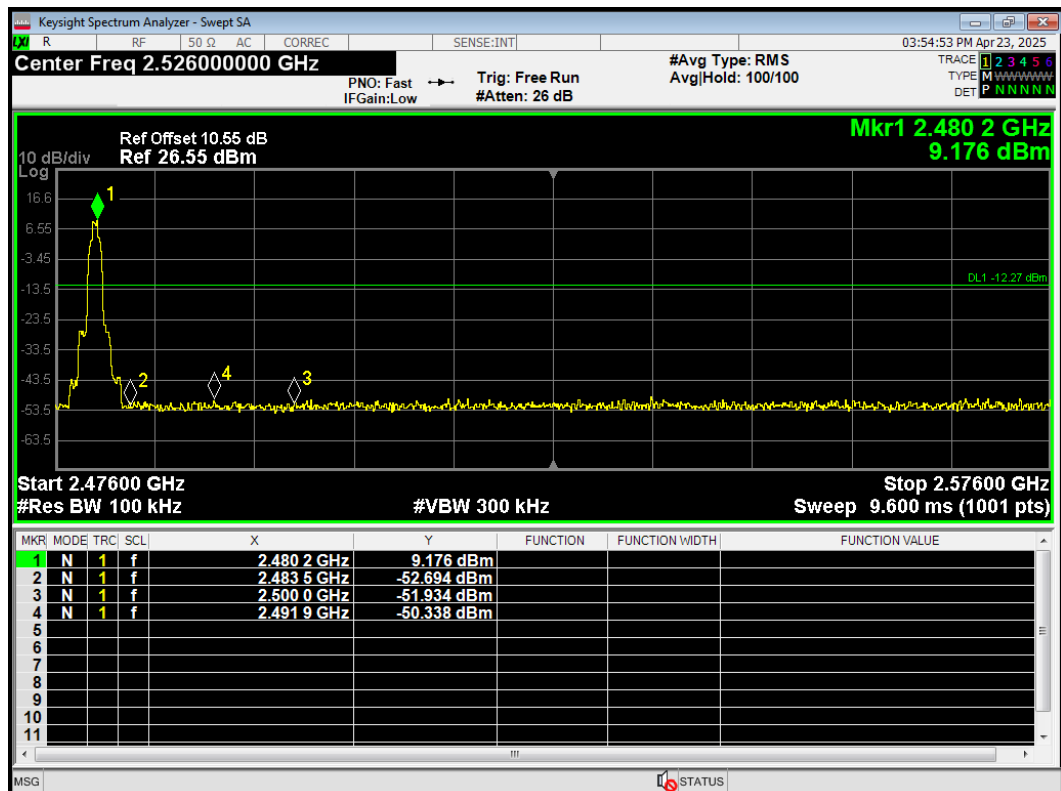
Band Edge 2-DH5 2402MHz No-Hopping Emission



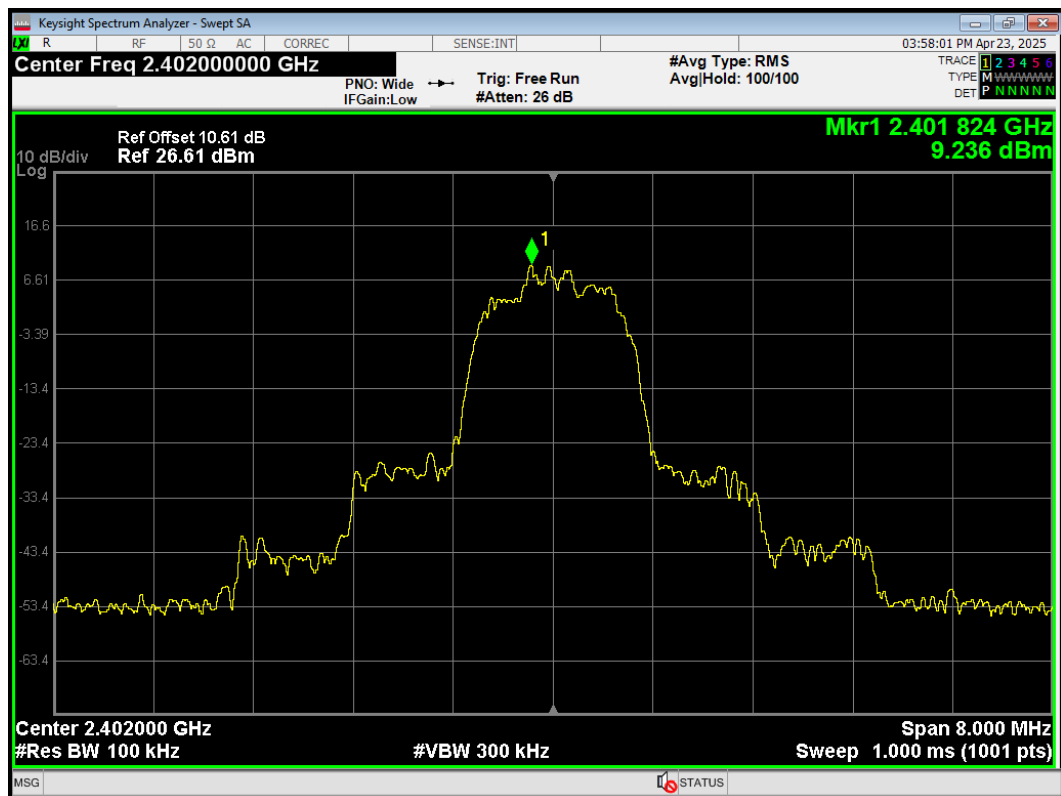
Band Edge 2-DH5 2480MHz No-Hopping Ref



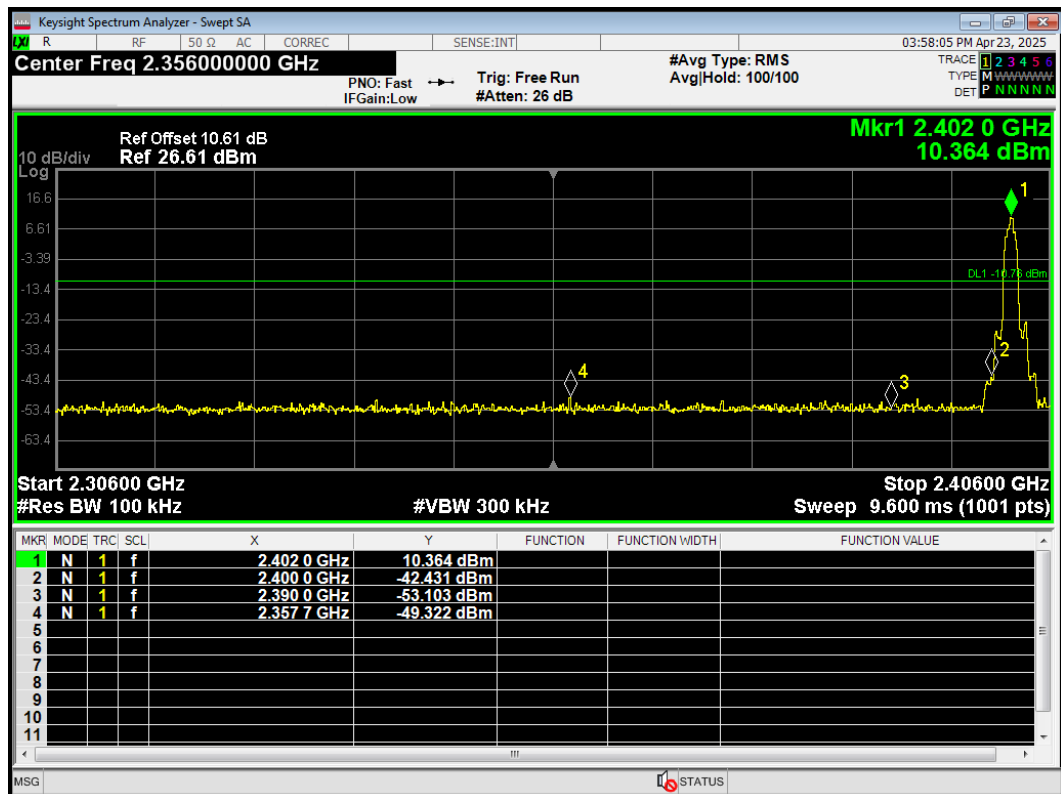
Band Edge 2-DH5 2480MHz No-Hopping Emission



Band Edge 3-DH5 2402MHz No-Hopping Ref



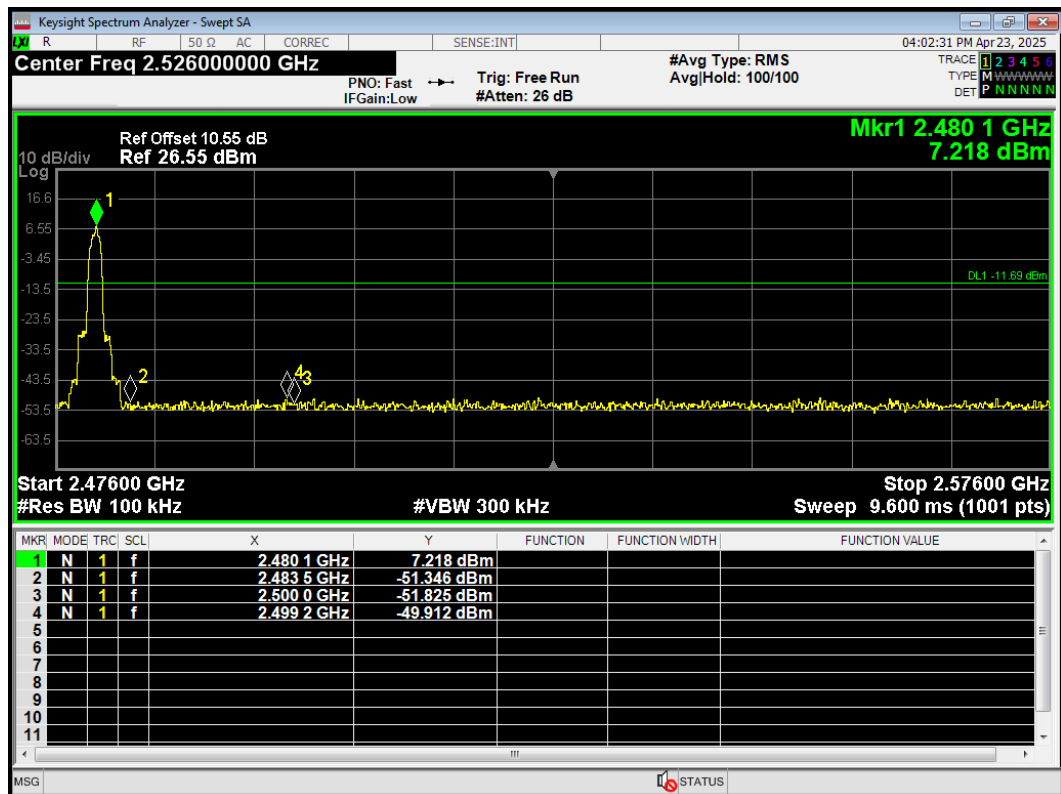
Band Edge 3-DH5 2402MHz No-Hopping Emission



Band Edge 3-DH5 2480MHz No-Hopping Ref



Band Edge 3-DH5 2480MHz No-Hopping Emission



5.6 Number of hopping Frequency

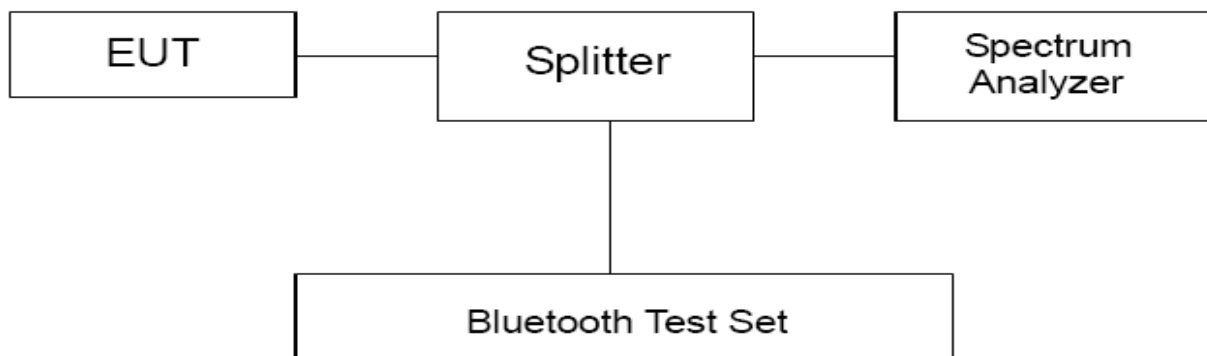
Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. RBW is set to 100kHz and VBW is set to 300kHz on spectrum analyzer. Set EUT on Hopping on mode.

Test setup



Limits

Rule Part 15.247(a) (1) (iii) specifies that" Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels."

Limits	≥ 15 channels
--------	---------------

Test Results:**In normal mode**

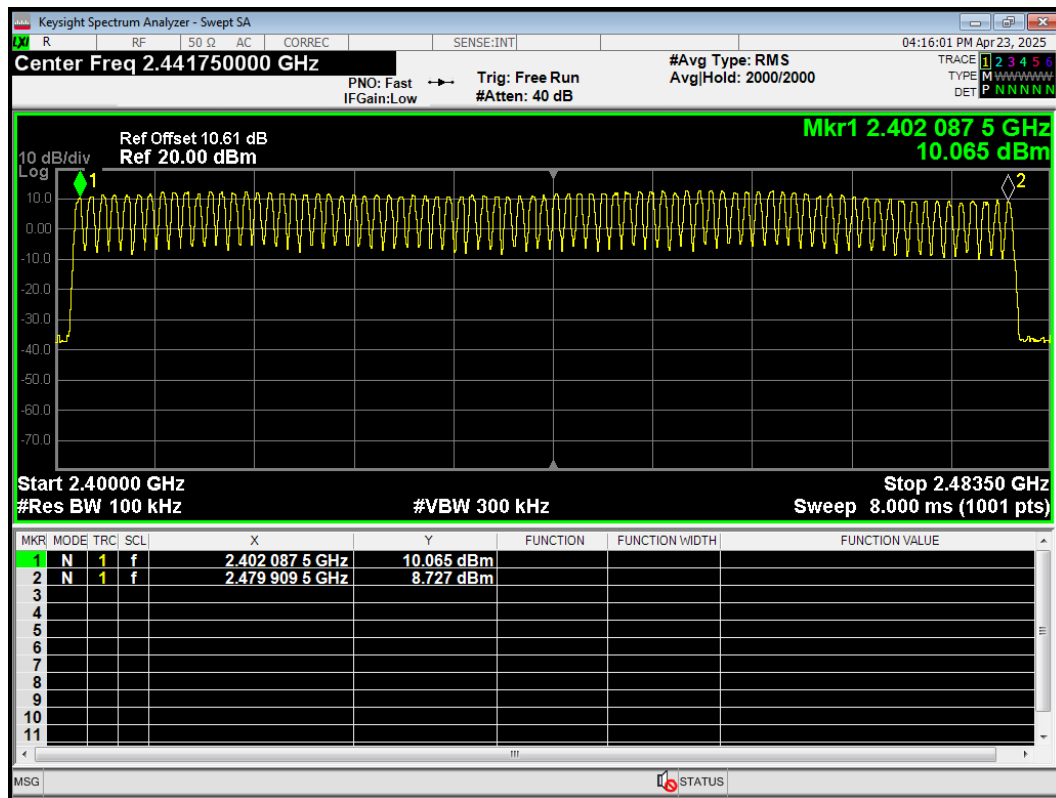
Test Mode		Number of hopping channels	conclusion
Bluetooth	DH5	79	PASS
	2DH5	79	PASS
	3DH5	79	PASS

In AFH mode

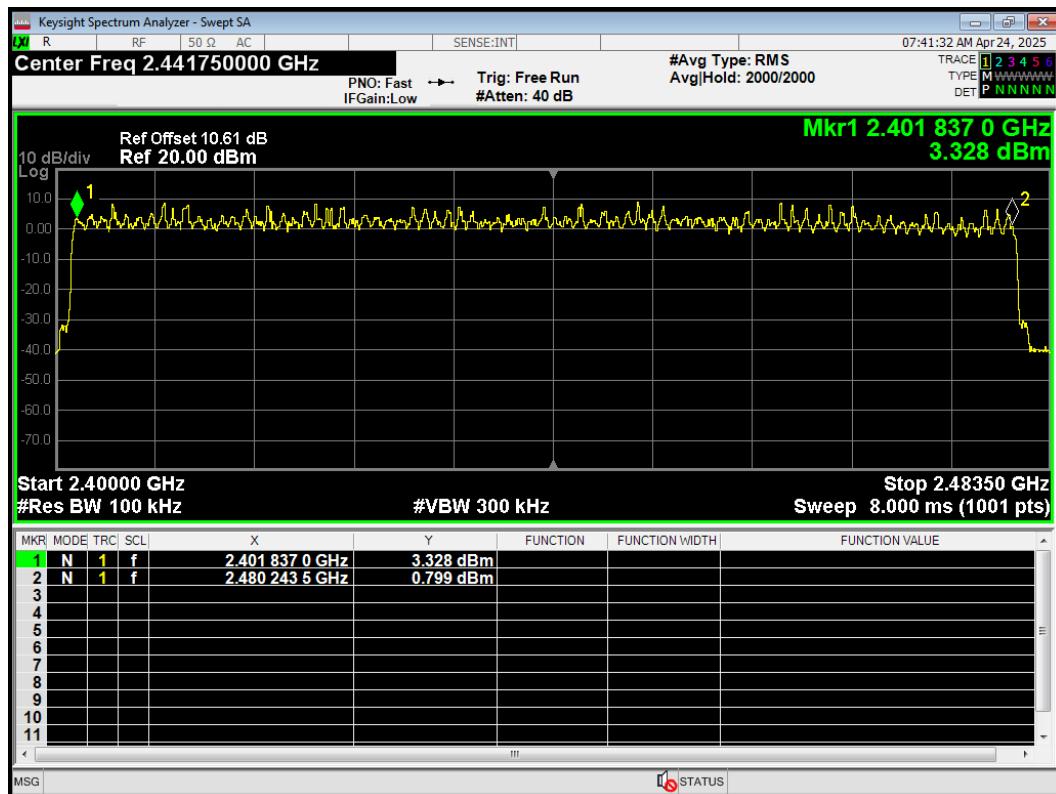
Test Mode		Number of hopping channels	conclusion
Bluetooth	DH5	20	PASS
	2DH5	20	PASS
	3DH5	20	PASS

In normal mode

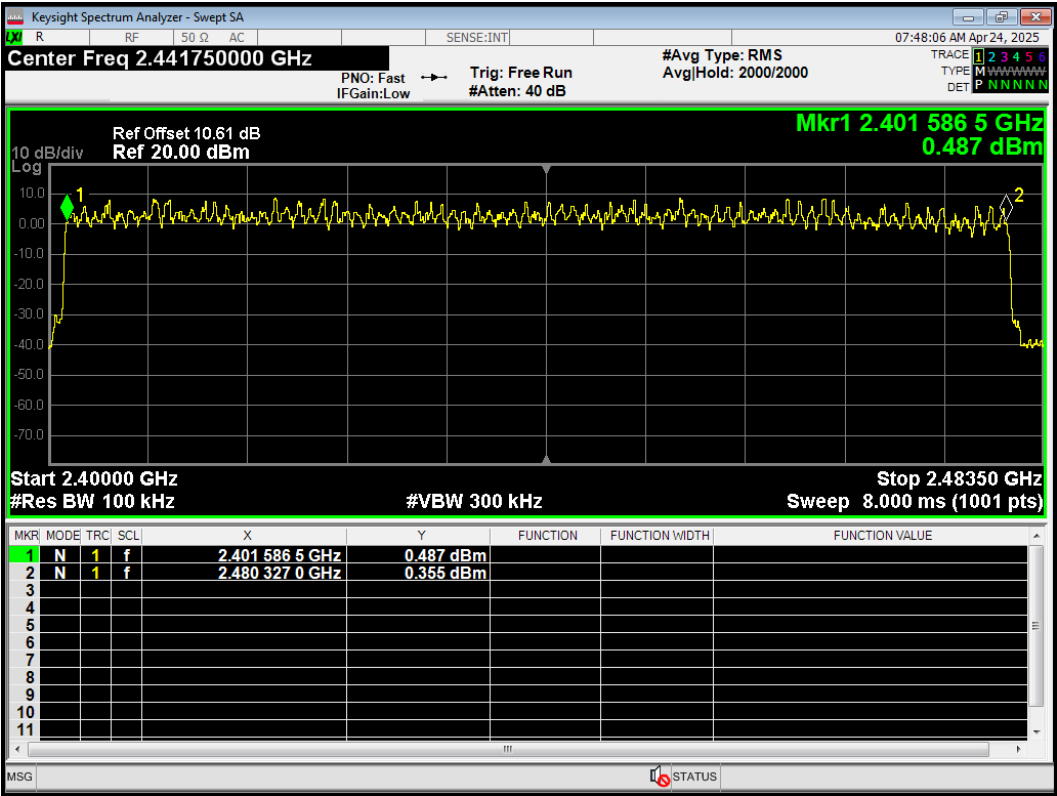
Hopping No. 1-DH5 2402MHz



Hopping No. 2-DH5 2402MHz

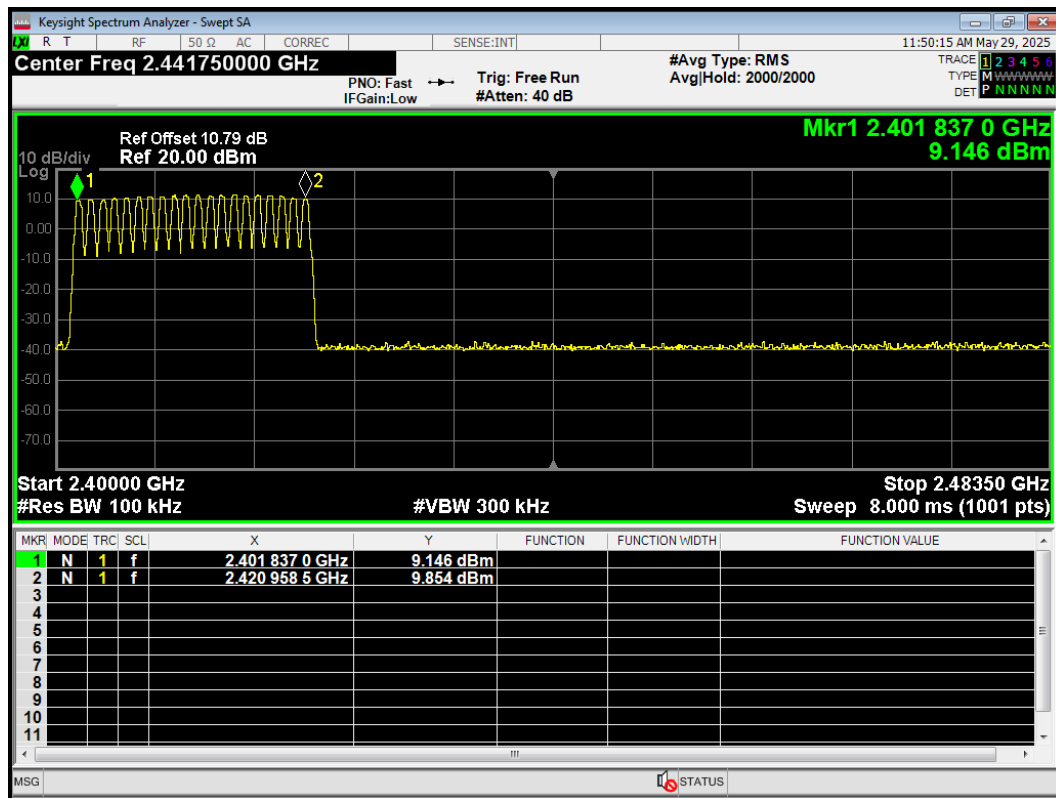


Hopping No. 3-DH5 2402MHz

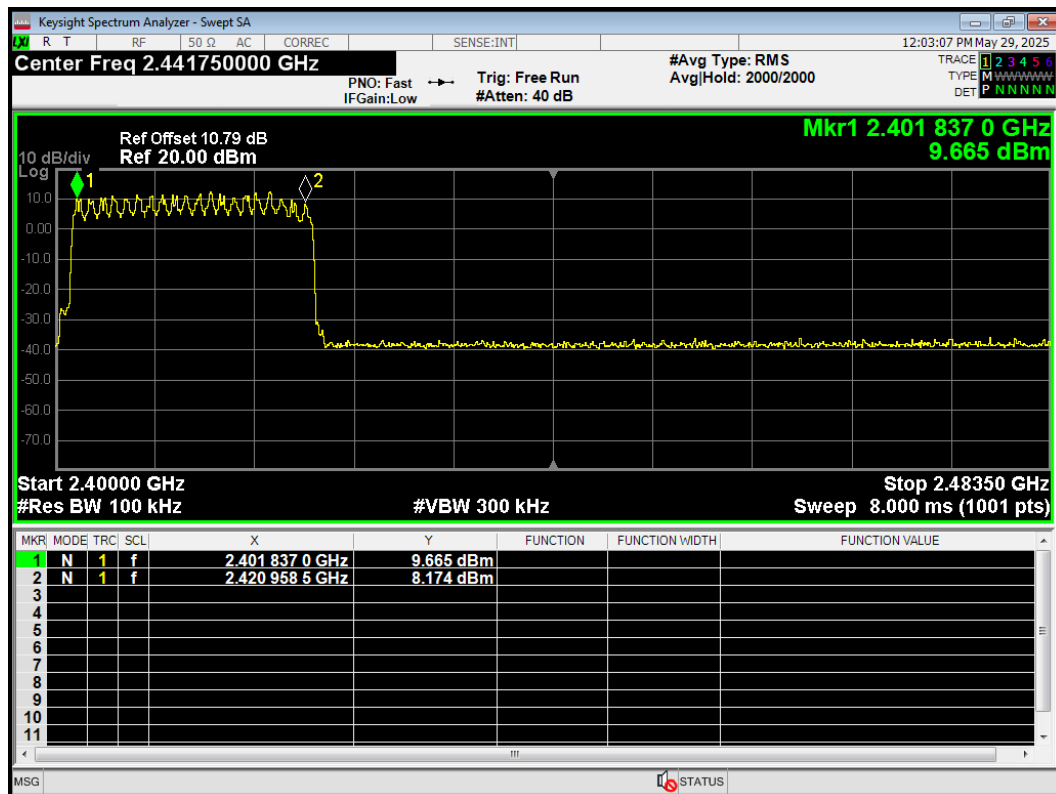


In AFH mode

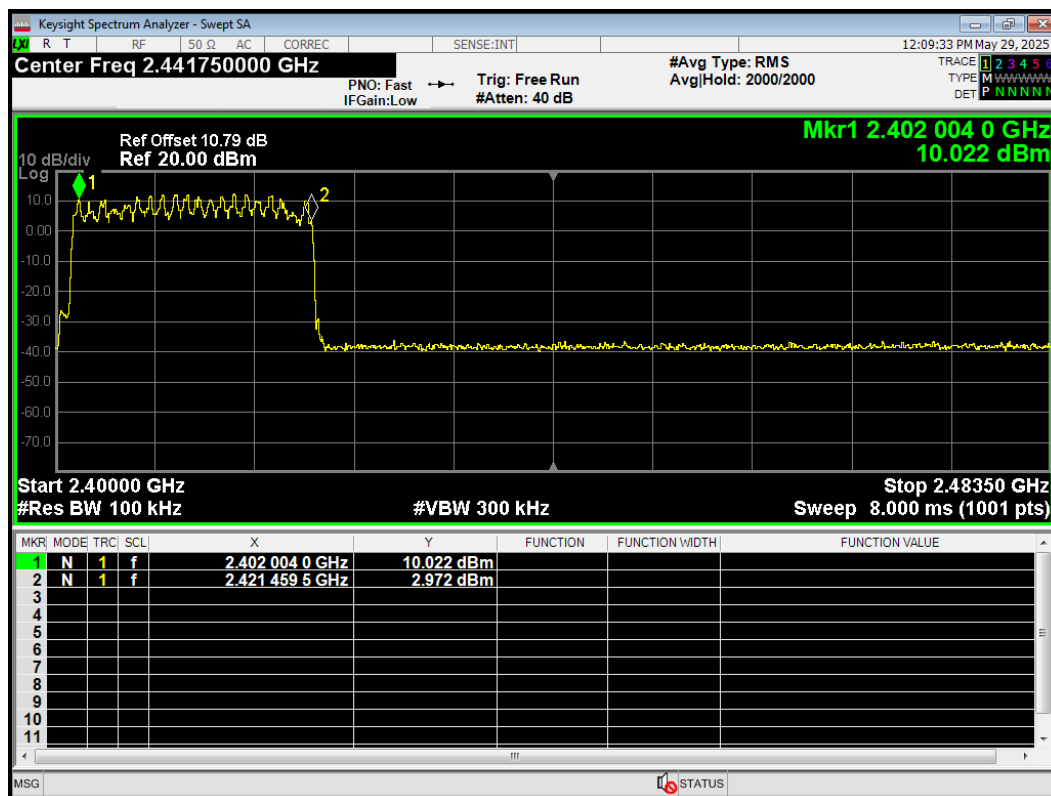
Hopping No. 1-DH5 2402MHz



Hopping No. 2-DH5 2402MHz



Hopping No. 3-DH5 2402MHz



5.7 Spurious RF Conducted Emissions

Ambient condition

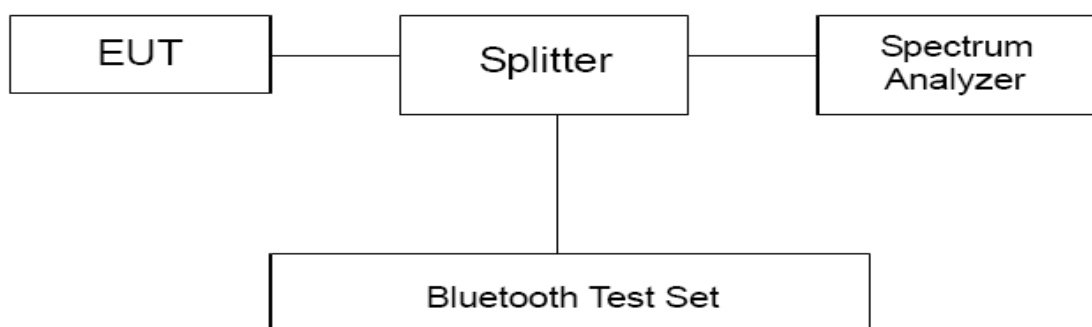
Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. Set RBW 100kHz and VBW 300 kHz, Sweep is set to AUTO.

The test is in transmitting mode.

Test setup



Limits

Rule Part 15.247(d) specifies that "In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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."

Test Mode	Carrier frequency (MHz)	Reference value (dBm)	Limit
DH5	2402	7.790	-12.21
	2441	11.600	-8.40
	2480	9.290	-10.71
2DH5	2402	10.800	-9.20
	2441	11.610	-8.39
	2480	9.350	-10.65
3DH5	2402	10.840	-9.16
	2441	11.620	-8.38
	2480	9.370	-10.63

Measurement Uncertainty

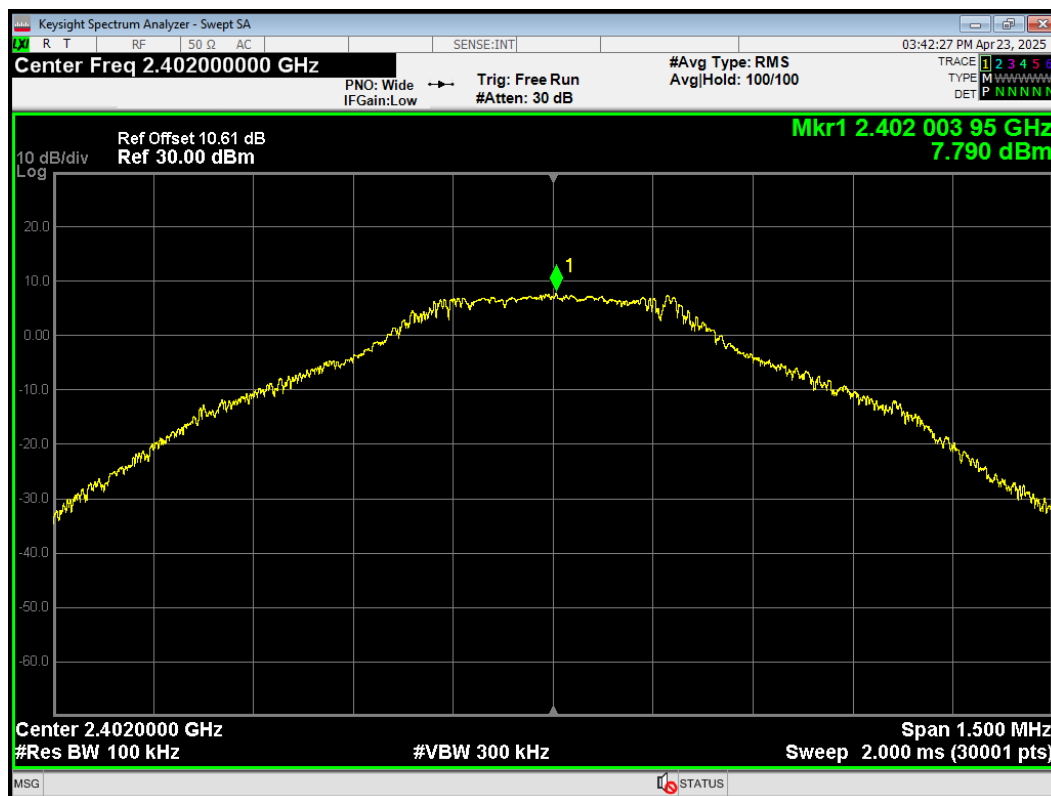
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB

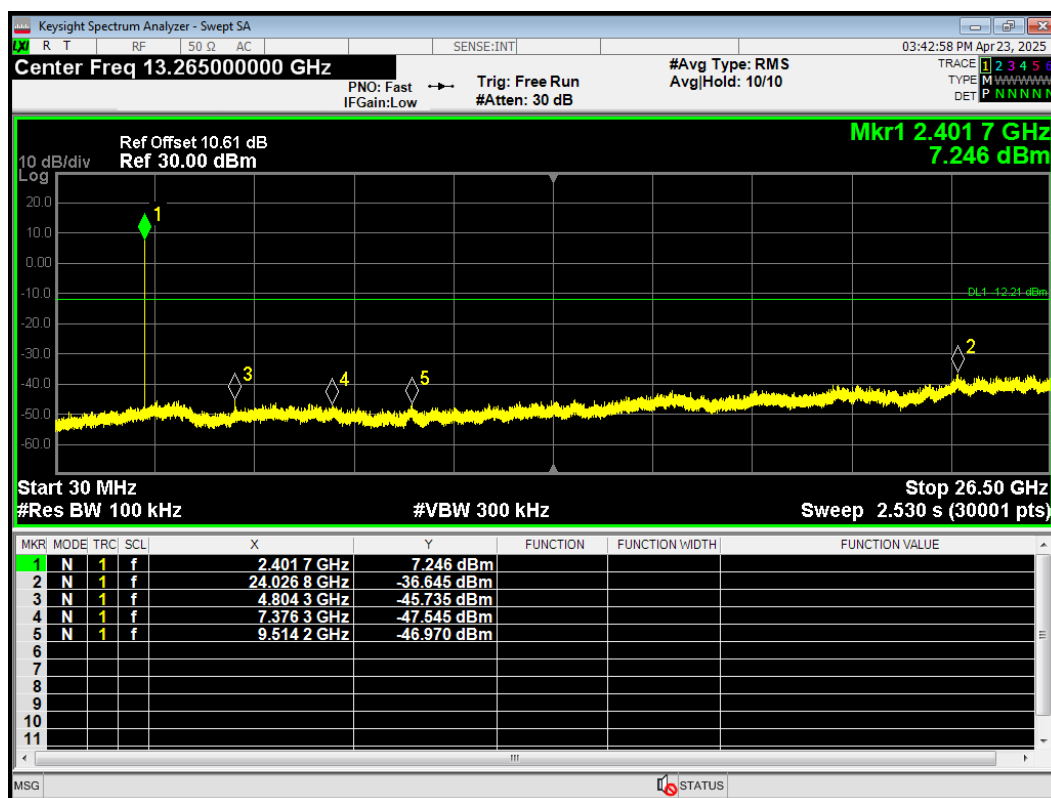
Test Results:

The signal beyond the limit is carrier.

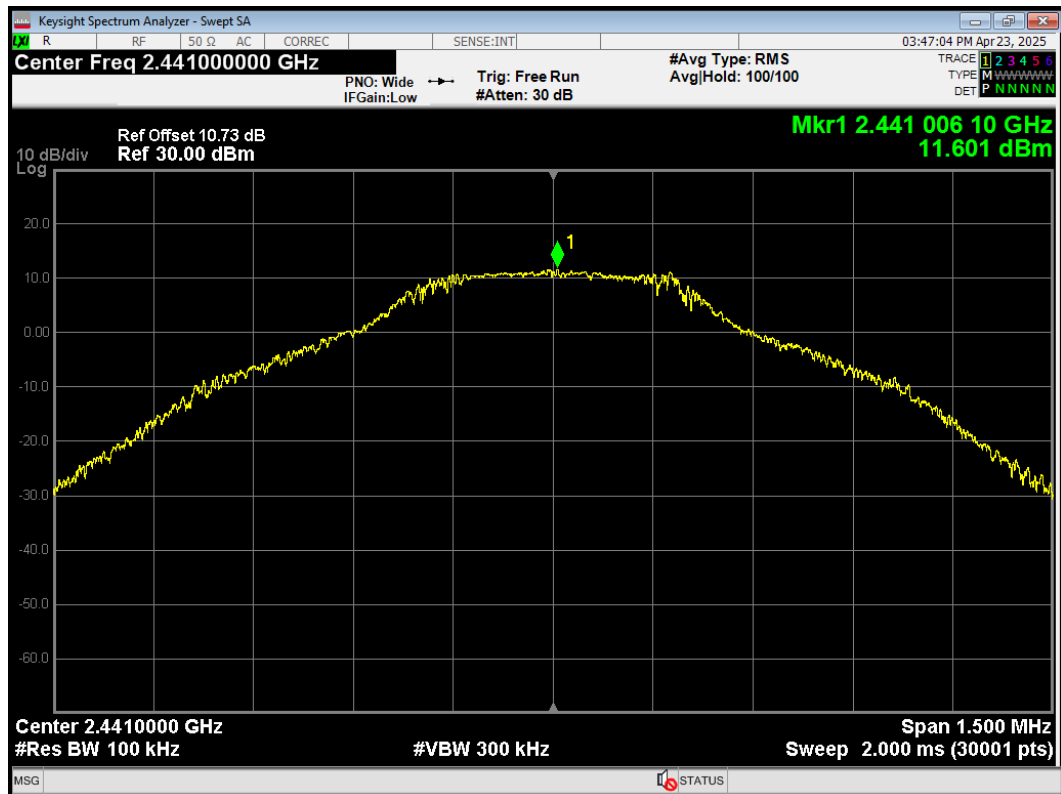
Tx. Spurious 1-DH5 2402MHz Ref



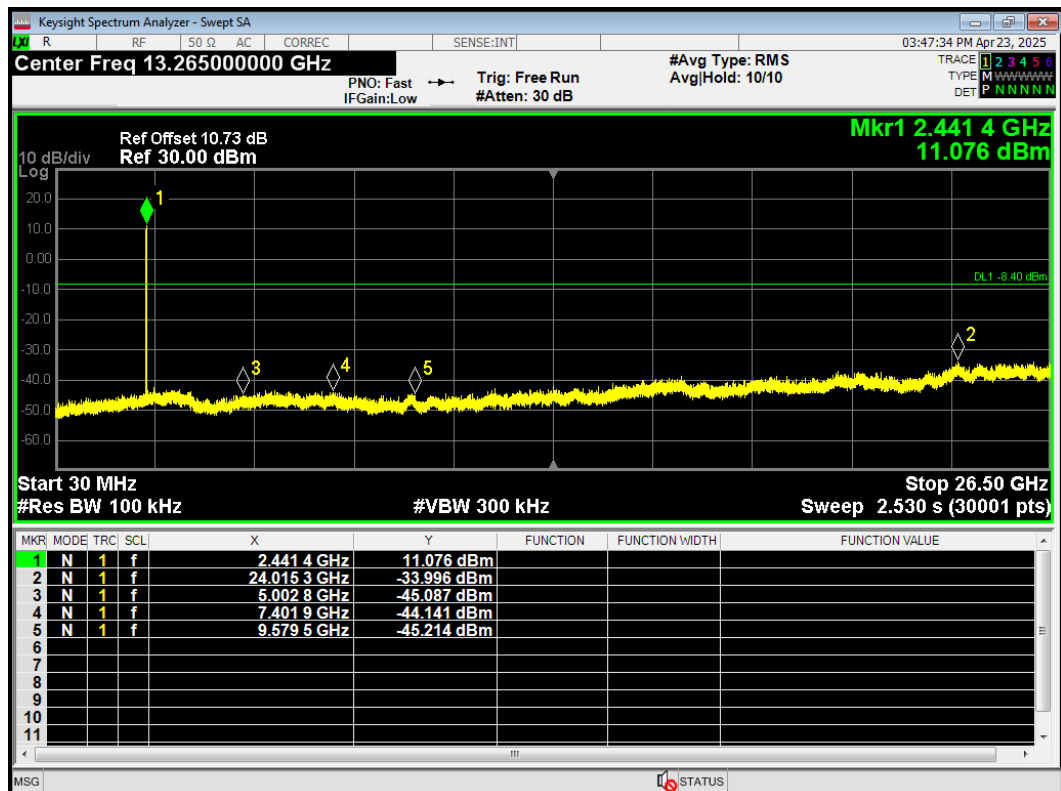
Tx. Spurious 1-DH5 2402MHz Emission



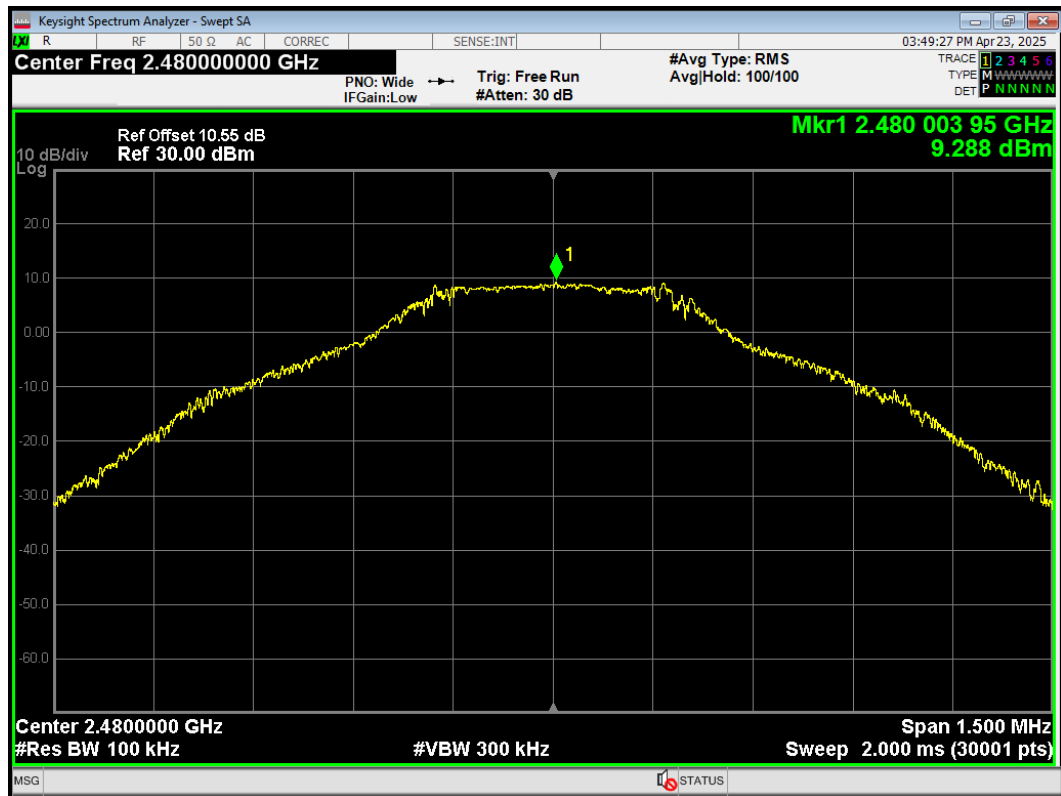
Tx. Spurious 1-DH5 2441MHz Ref



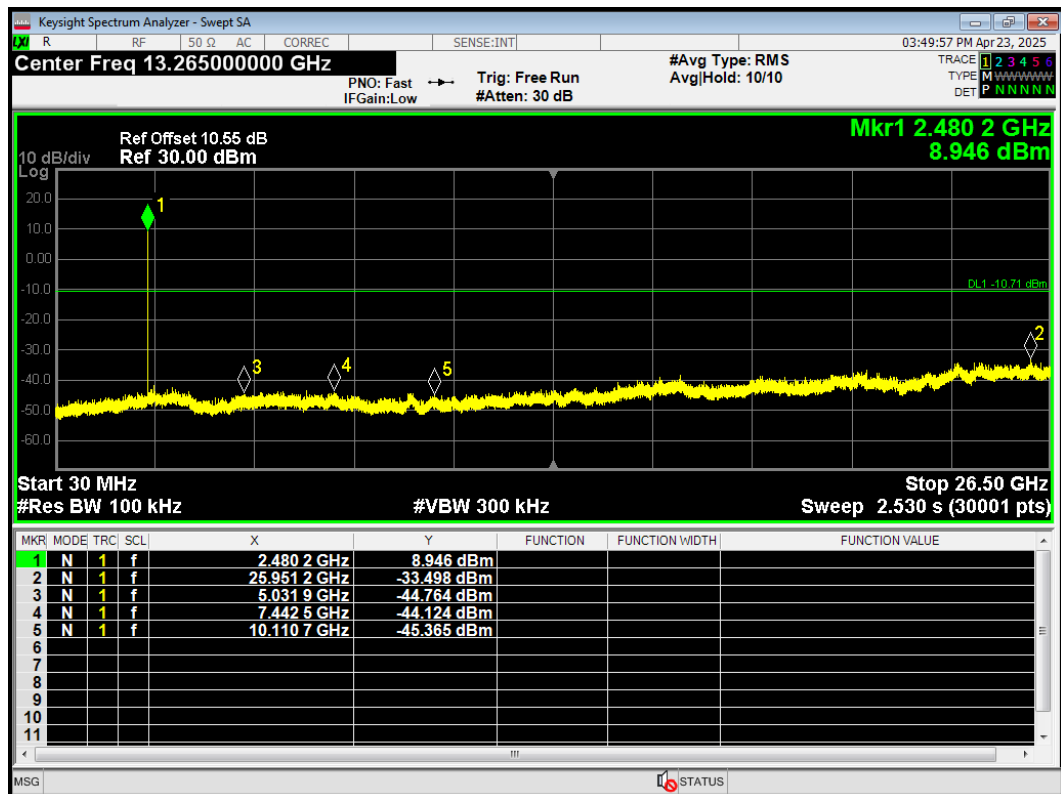
Tx. Spurious 1-DH5 2441MHz Emission



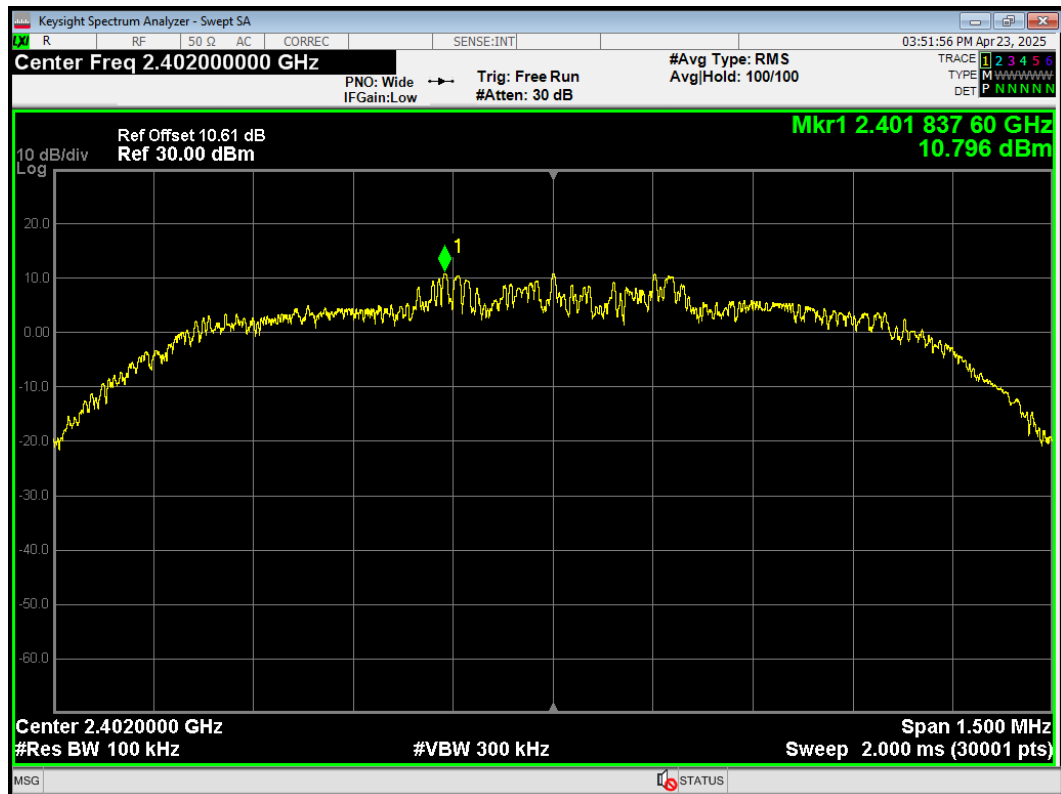
Tx. Spurious 1-DH5 2480MHz Ref



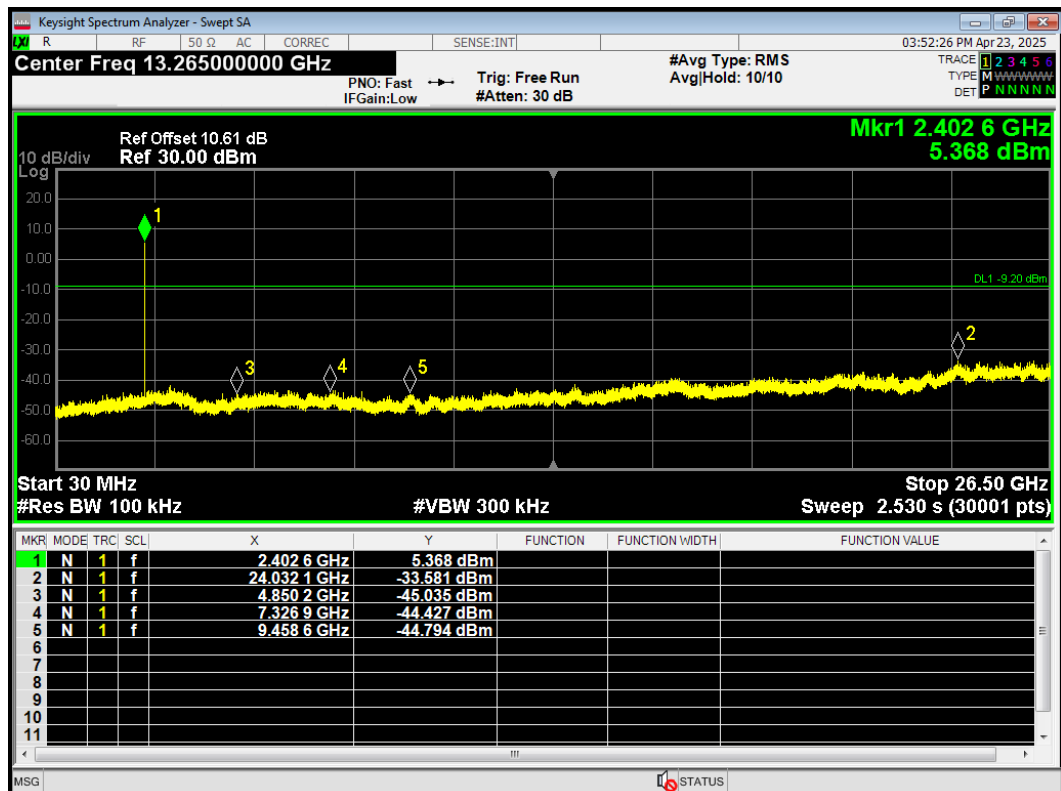
Tx. Spurious 1-DH5 2480MHz Emission



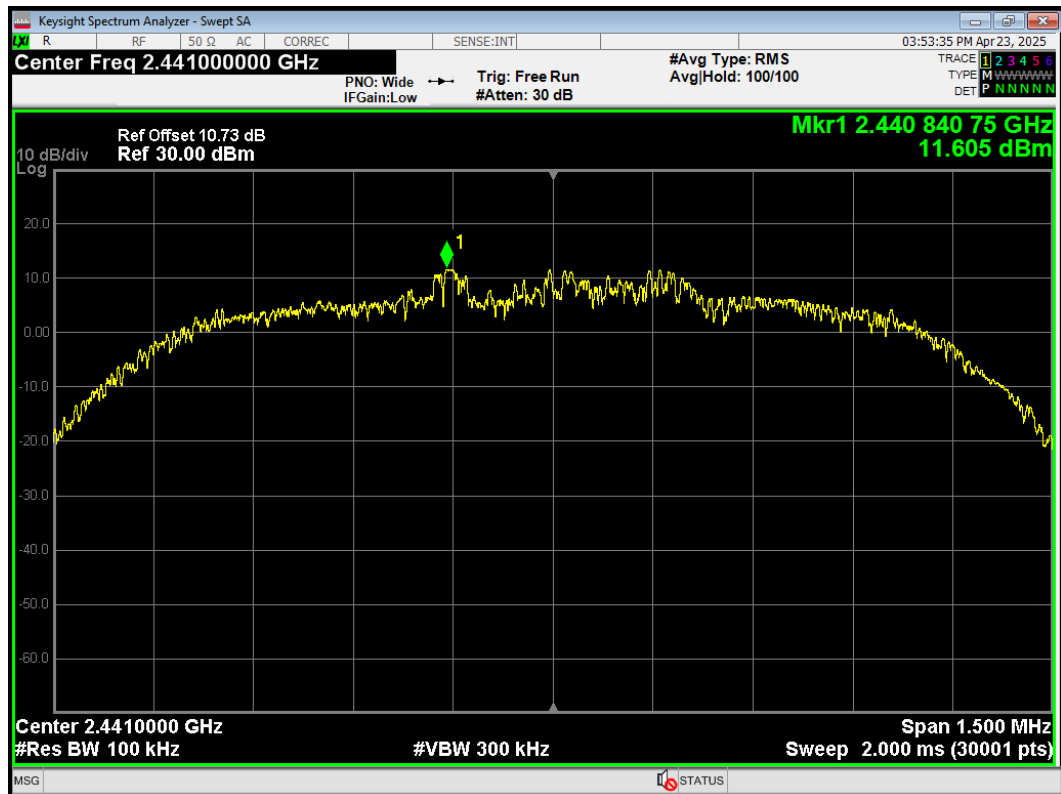
Tx. Spurious 2-DH5 2402MHz Ref



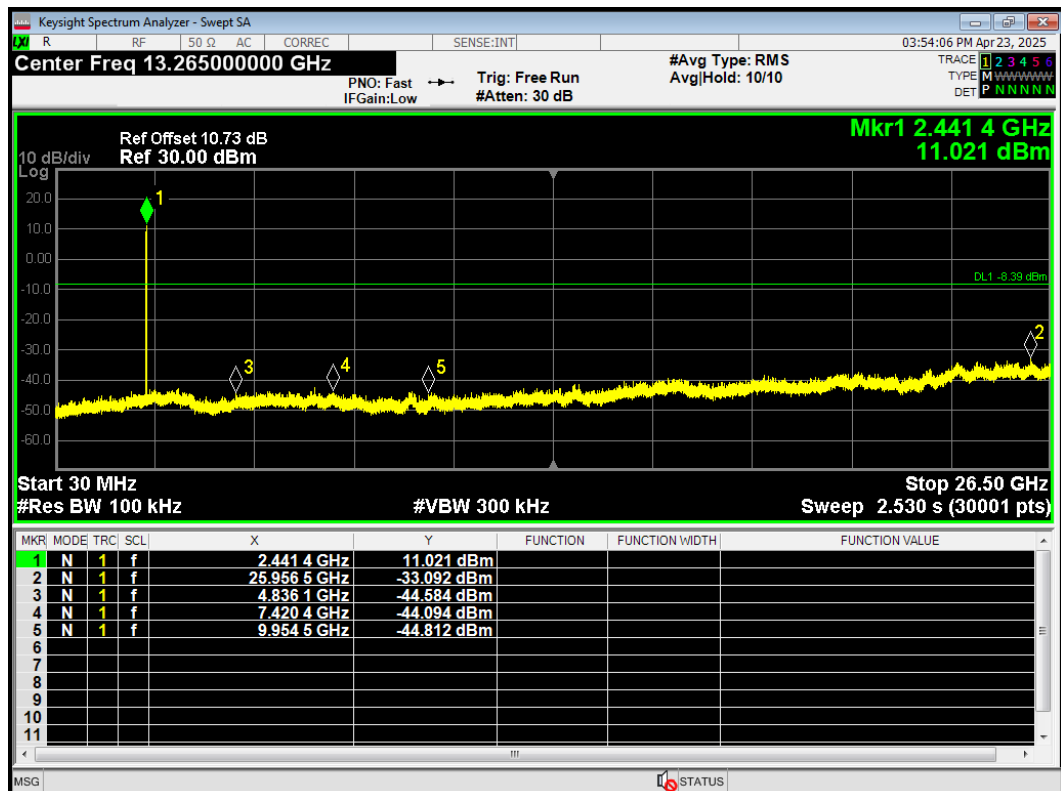
Tx. Spurious 2-DH5 2402MHz Emission



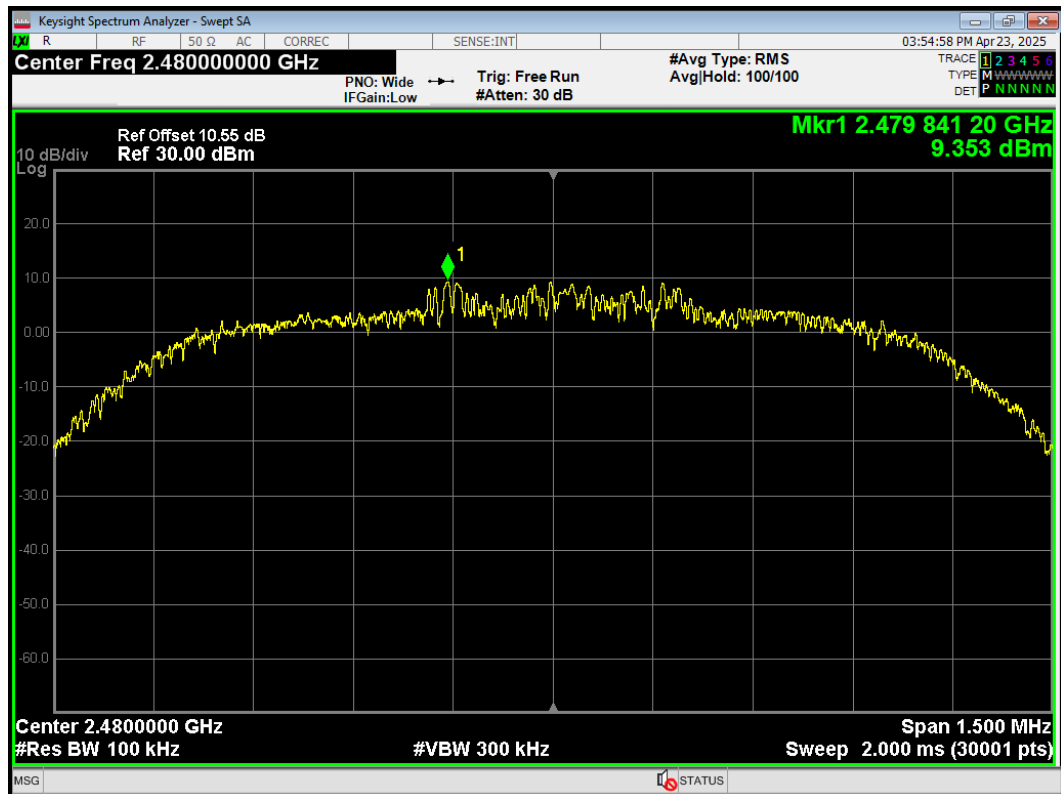
Tx. Spurious 2-DH5 2441MHz Ref



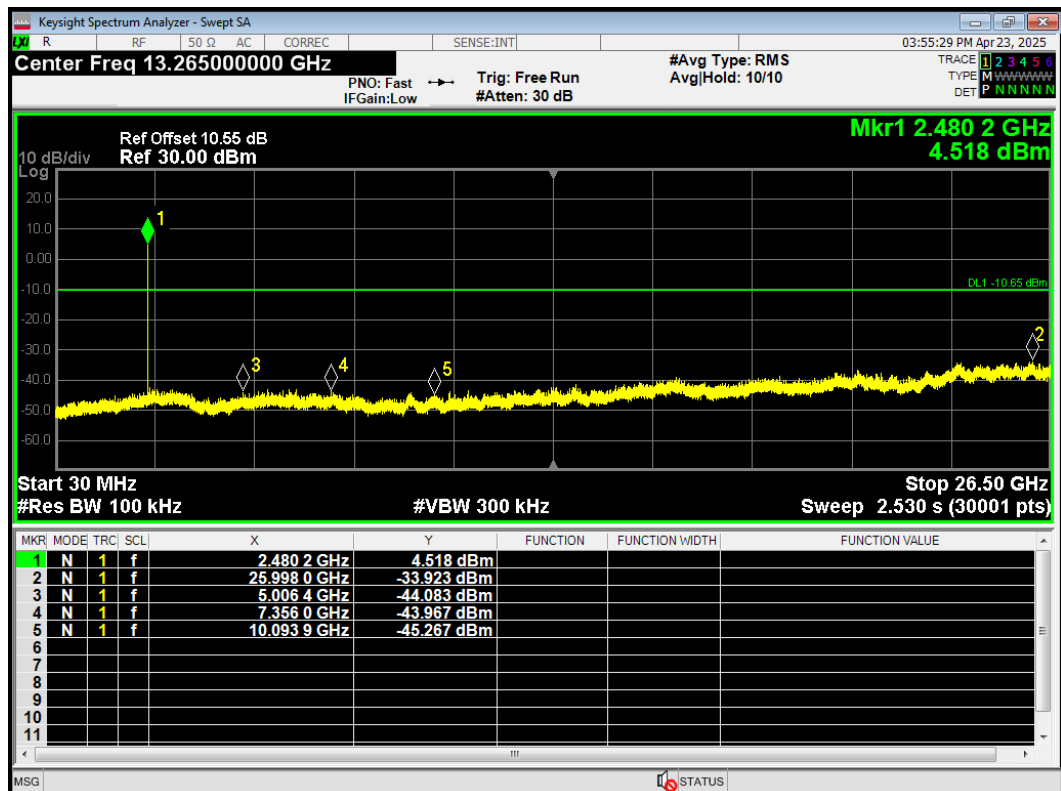
Tx. Spurious 2-DH5 2441MHz Emission



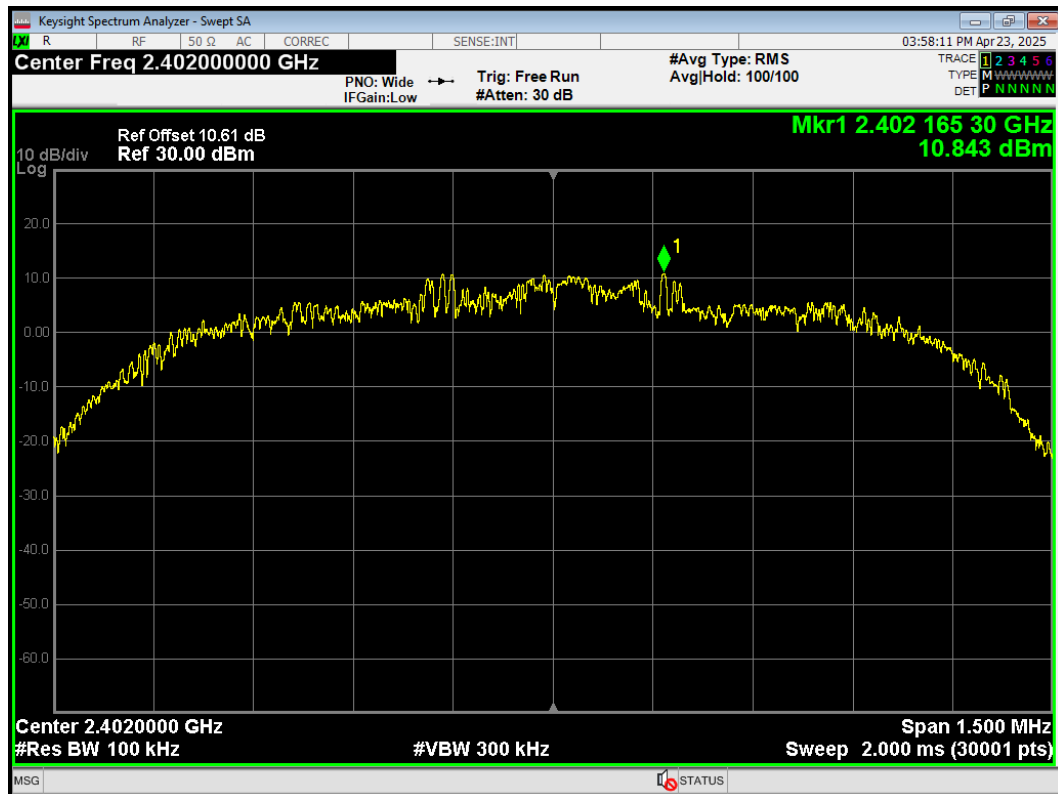
Tx. Spurious 2-DH5 2480MHz Ref



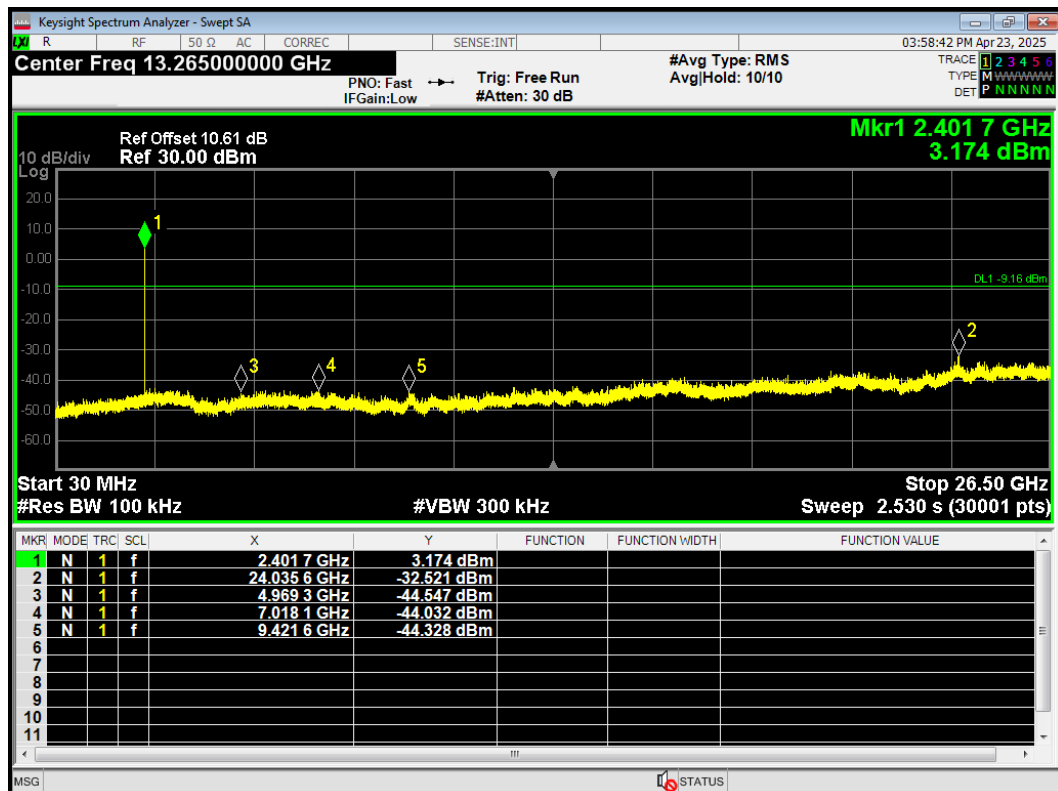
Tx. Spurious 2-DH5 2480MHz Emission



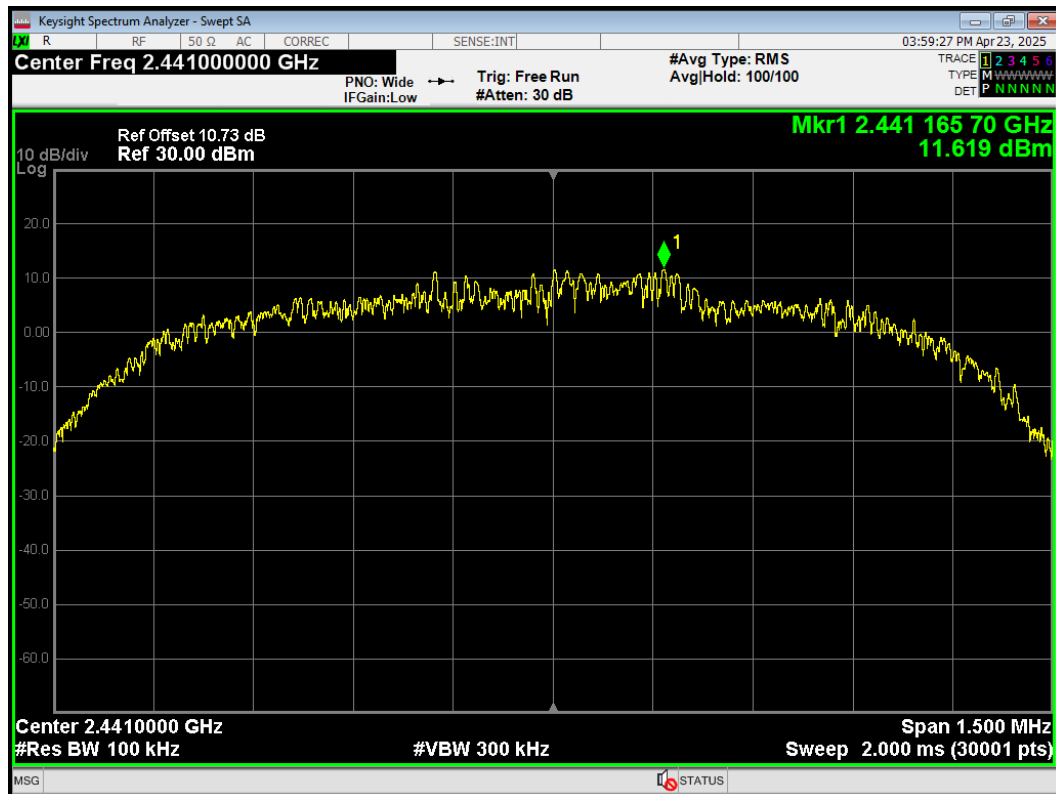
Tx. Spurious 3-DH5 2402MHz Ref



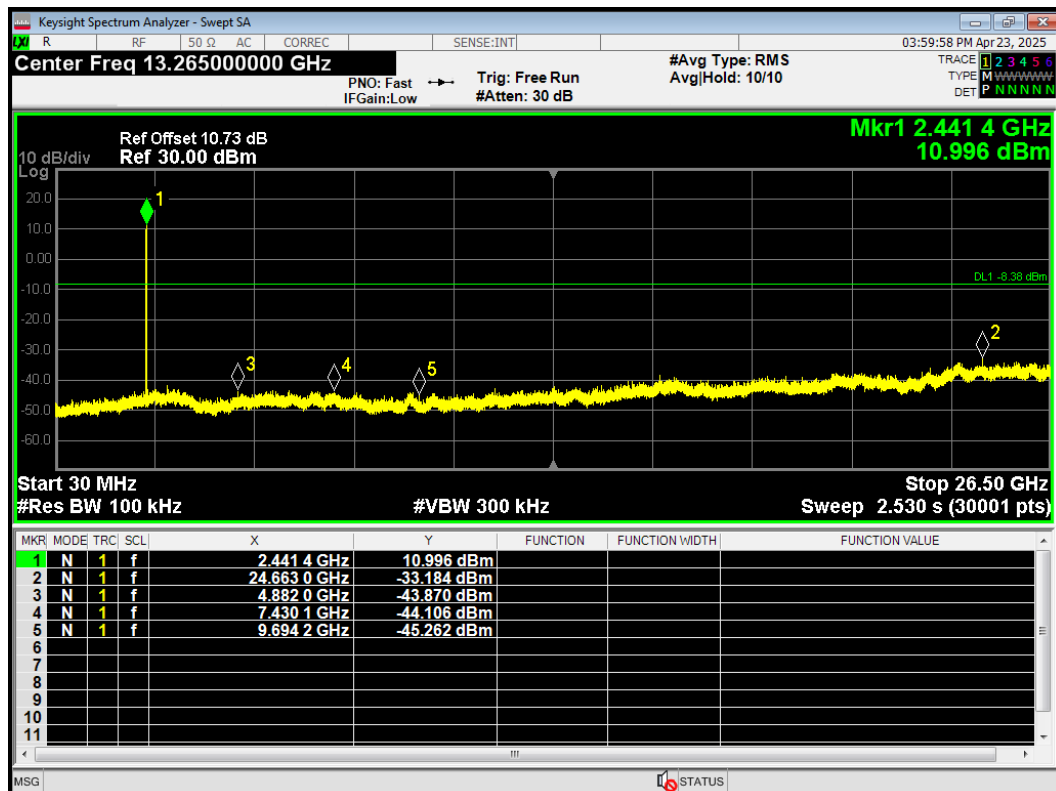
Tx. Spurious 3-DH5 2402MHz Emission



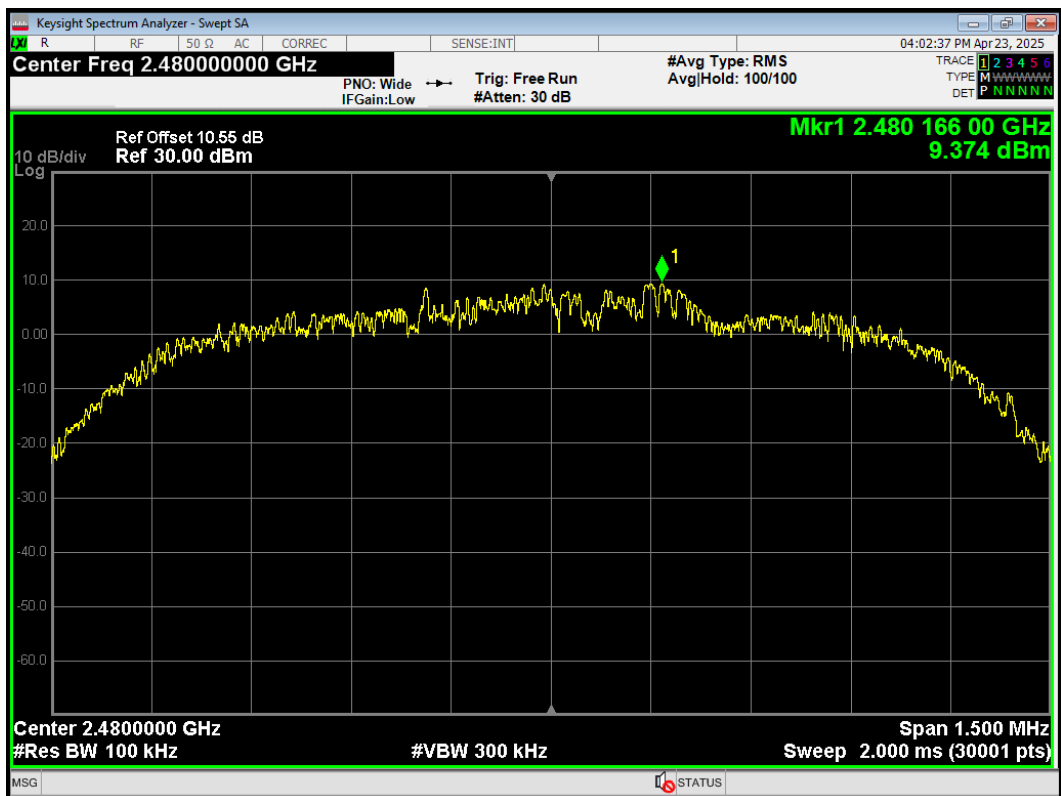
Tx. Spurious 3-DH5 2441MHz Ref



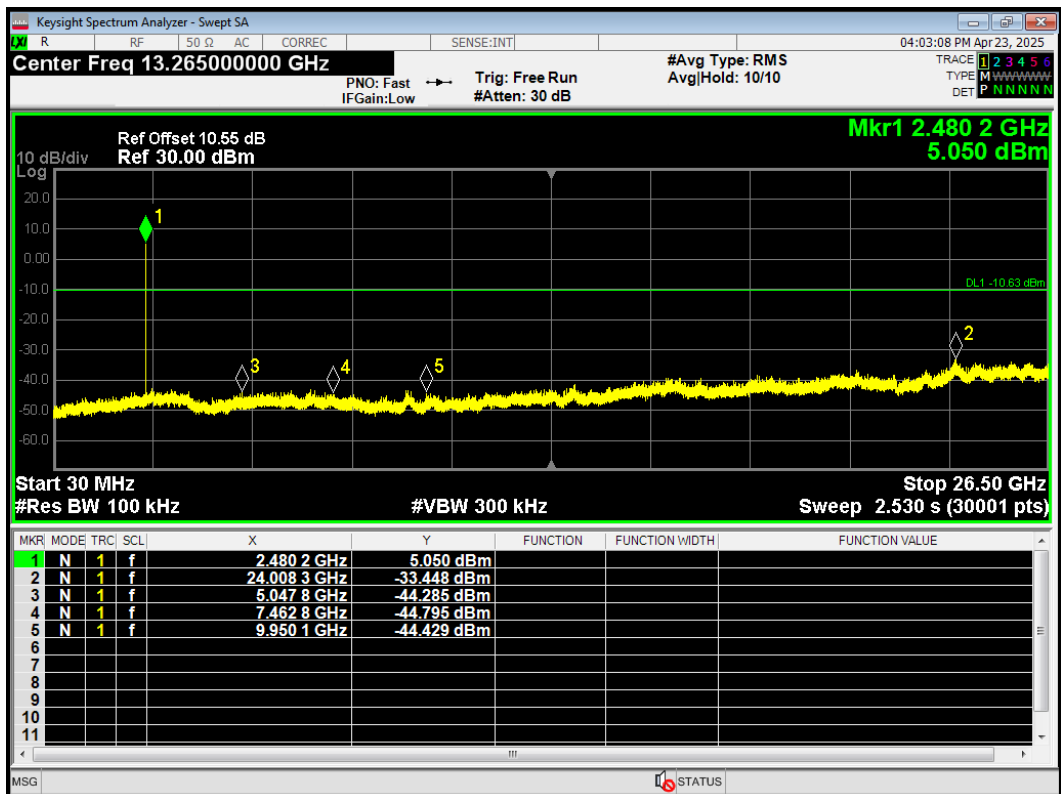
Tx. Spurious 3-DH5 2441MHz Emission



Tx. Spurious 3-DH5 2480MHz Ref



Tx. Spurious 3-DH5 2480MHz Emission



5.8 Unwanted Emission

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, below 30MHz, the center of the loop shall be 1 meters; above 30MHz, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

9kHz~150 kHz

RBW=200Hz, VBW=1kHz/ Sweep=AUTO

150 kHz~30MHz

RBW=9kHz, VBW=30kHz,/ Sweep=AUTO

Below 1GHz

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz

(a) PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

detector; The 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.

The dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit.

If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak- average correction factor, derived from the appropriate duty cycle calculation.

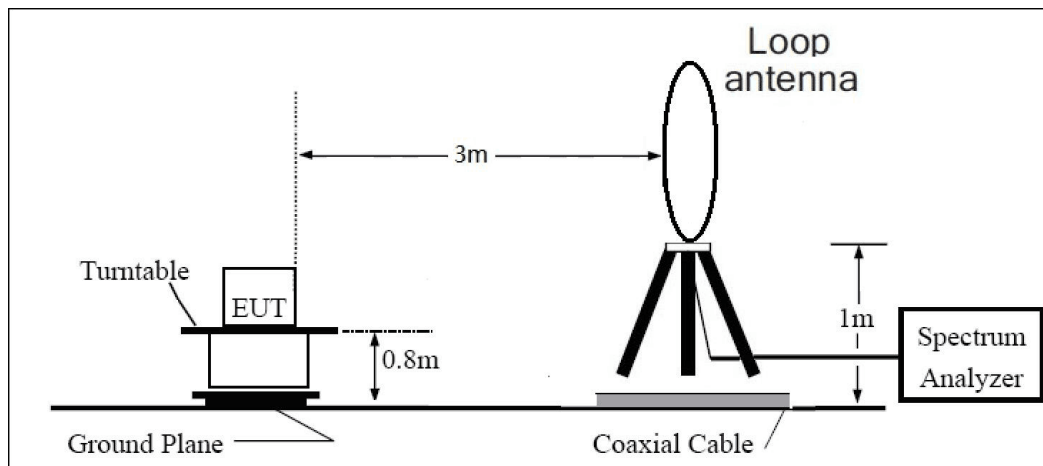
This setting method can refer to **KDB 558074 D01**.

This mode was measured in the following mode: EUT with cradle and EUT without cradle. The worst emission was found in EUT with cradle mode and the worst case was recorded.

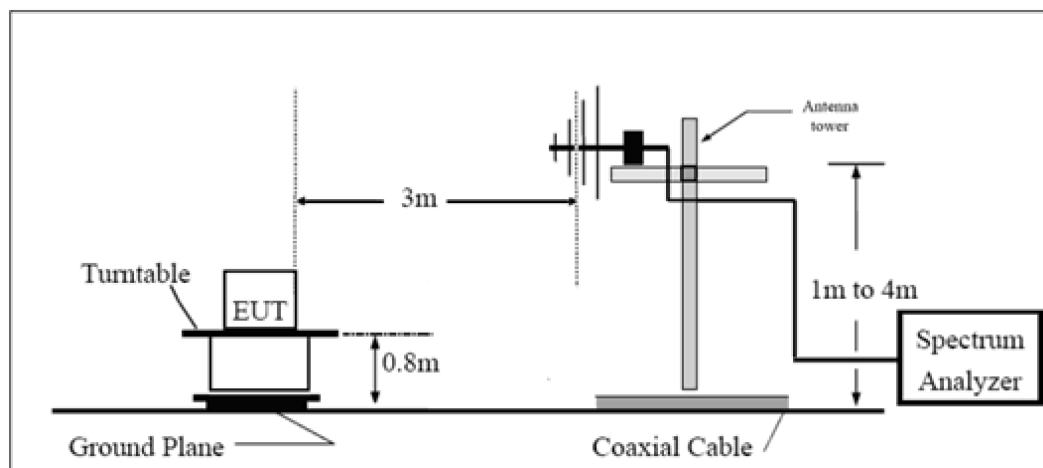
The test is in transmitting mode.

Test setup

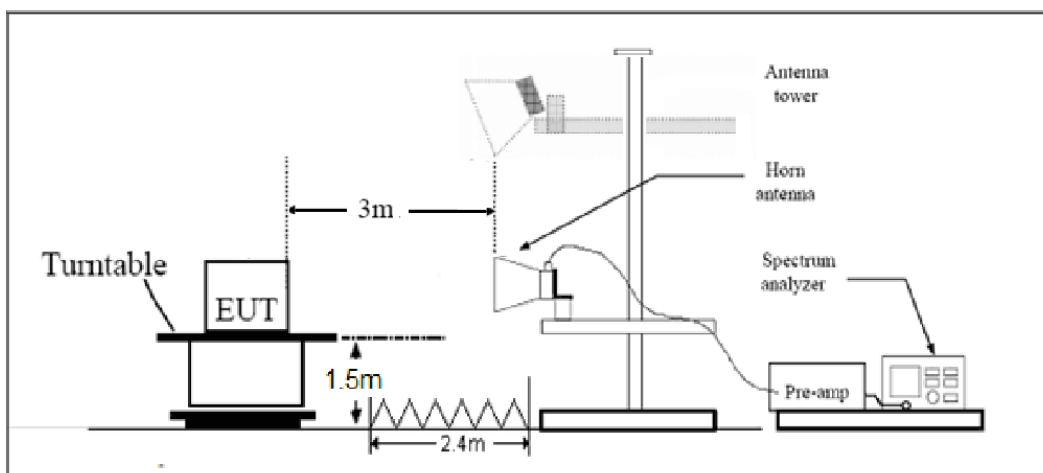
9kHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Limits

Rule Part 15.247(d) specifies that “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)).”

Limit in restricted band

Frequency of emission (MHz)	Field strength($\mu\text{V/m}$)	Field strength($\text{dB}\mu\text{V/m}$)
0.009–0.490	2400/F(kHz)	/
0.490–1.705	24000/F(kHz)	/
1.705–30.0	30	/
30–88	100	40
88–216	150	43.5
216–960	200	46
Above960	500	54

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

Peak Limit=74dB $\mu\text{V/m}$

Average Limit=54dB $\mu\text{V/m}$

Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

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)
13.36-13.41			

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9kHz-30MHz	3.55 dB
30MHz-200MHz	4.17 dB
200MHz-1GHz	4.84 dB
1-18GHz	4.35 dB
18-26.5GHz	5.90 dB
26.5GHz~40GHz	5.92 dB

Test Results:

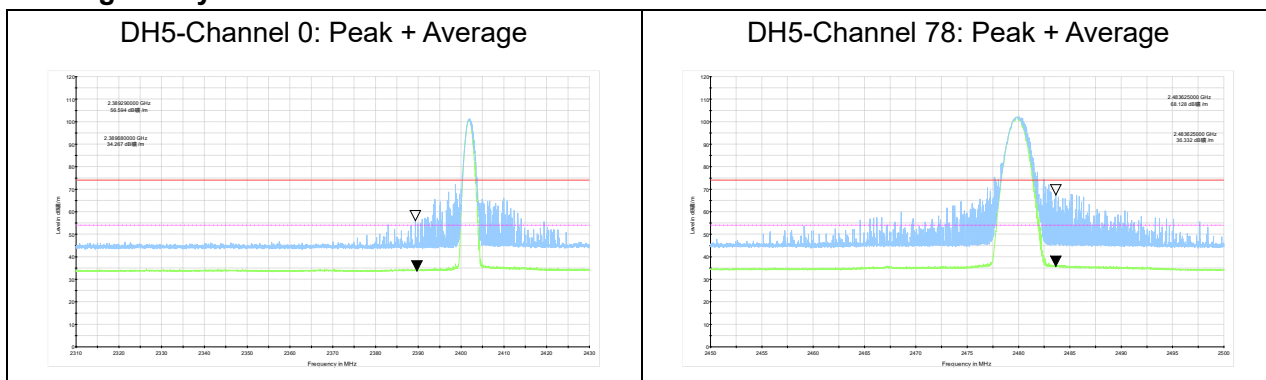
The following graphs display the maximum values of horizontal and vertical by software.
Blue trace uses the peak detection, Green trace uses the average detection.

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the loop antenna is vertical, the others are vertical and horizontal. and the worst case was recorded.

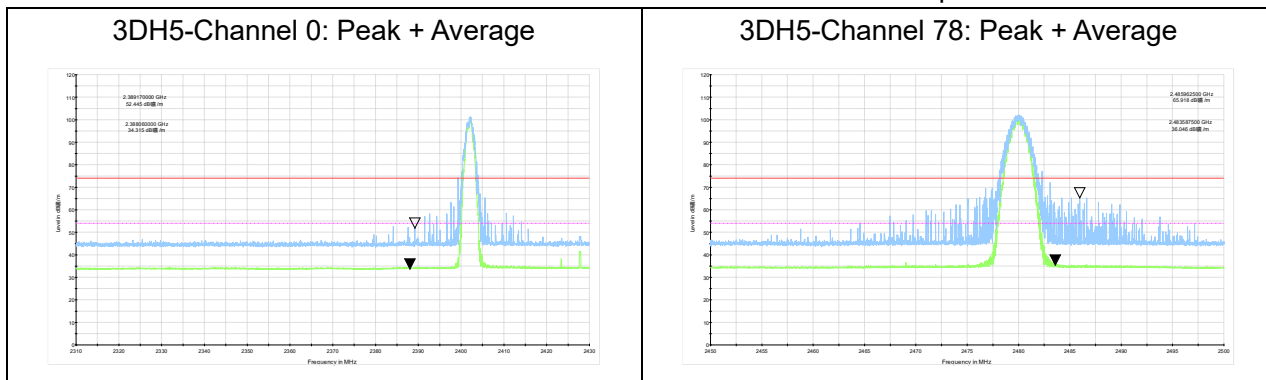
A symbol ($\text{dB}\mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)

Configurations 1

The signal beyond the limit is carrier.



The bandage was performed in all EDR mode (2DH5 and 3DH5), 3DH5 was selected as the worse condition. The test data of the worst-case condition was recorded in this report.



Result of RE

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier.

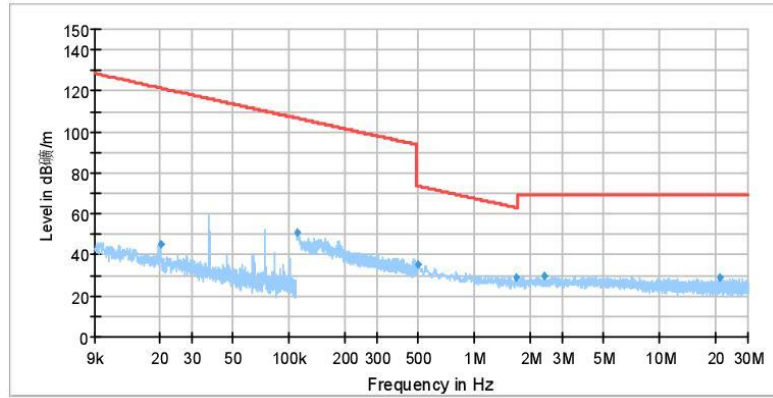
Remark:

1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit – Quasi-Peak/ MAX Peak/ Average
3. A symbol (dB μ V/m) in the test plot below means (dB μ V/m)
4. The following graphs display the maximum values of horizontal and vertical by software.
5. For below 1GHz



Continuous TX mode:

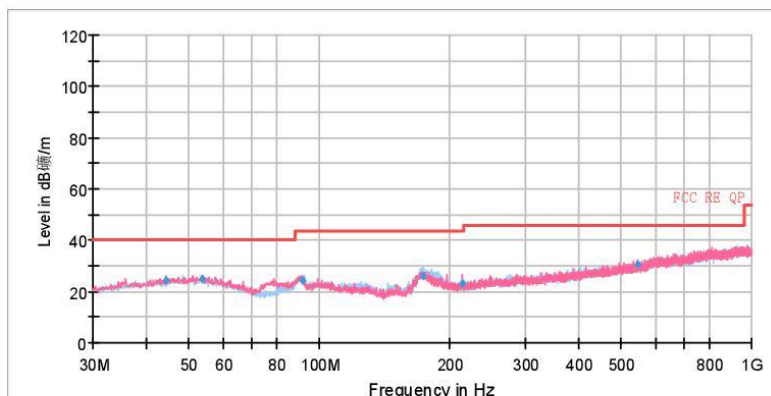
During the test, the Radiates Emission from 9kHz to 1GHz was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.



Final_Result

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.02	45.37	121.47	76.10	500.0	0.200	V	322.00	17
0.11	51.10	106.67	55.56	150.0	9.000	V	121.00	17
0.50	35.14	73.67	38.53	150.0	9.000	V	105.00	17
1.70	28.80	63.01	34.21	150.0	9.000	V	28.00	17
2.38	30.02	69.50	39.48	150.0	9.000	V	11.00	17
21.27	28.78	69.50	40.72	150.0	9.000	V	28.00	17

Radiates Emission from 9kHz to 30MHz

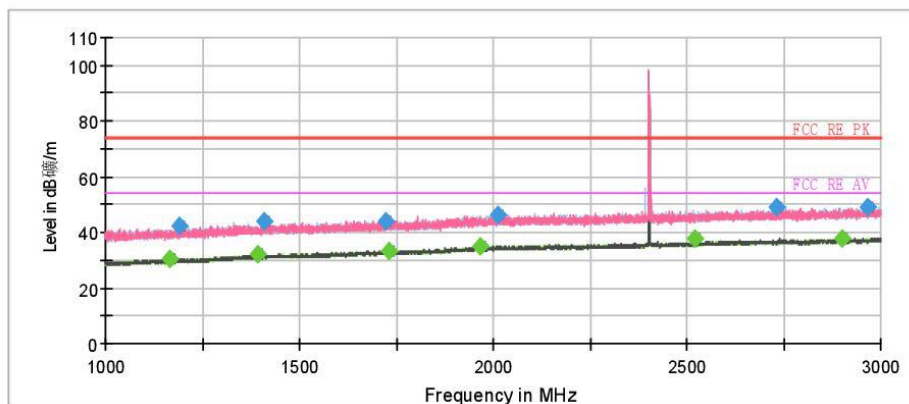


Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.19	24.27	40.00	15.73	1000.0	120.000	106.0	V	254.00	20
53.89	24.78	40.00	15.22	1000.0	120.000	103.0	H	109.00	20
91.11	24.33	43.50	19.17	1000.0	120.000	188.0	H	241.00	17
173.56	25.98	43.50	17.52	1000.0	120.000	215.0	H	280.00	16
214.42	22.98	43.50	20.52	1000.0	120.000	192.0	V	335.00	18
547.37	30.83	46.00	15.17	1000.0	120.000	112.0	V	228.00	26

Radiates Emission from 30MHz to 1GHz

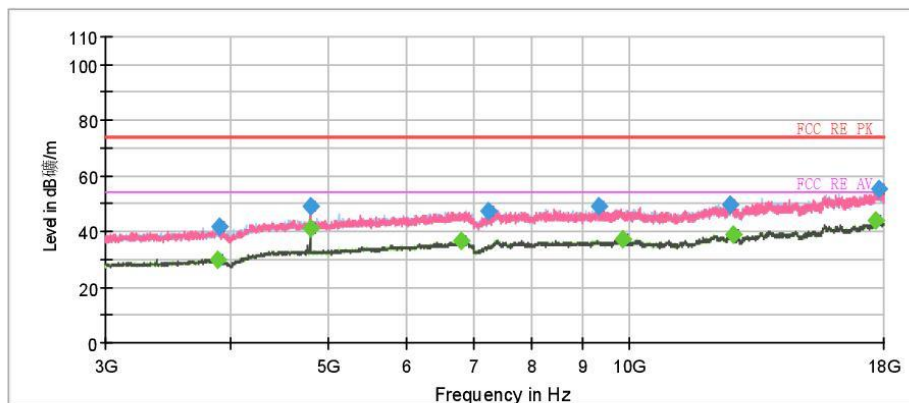
DH5-Channel 0



Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1163.750000	---	30.52	54.00	23.48	500.0	200.0	H	45.0	-6.4
1190.750000	42.18	---	74.00	31.82	500.0	100.0	V	40.0	-6.2
1391.250000	---	31.97	54.00	22.03	500.0	200.0	H	45.0	-4.5
1410.500000	43.77	---	74.00	30.23	500.0	200.0	H	45.0	-4.4
1721.250000	44.20	---	74.00	29.80	500.0	100.0	V	0.0	-2.0
1730.500000	---	33.43	54.00	20.58	500.0	100.0	V	0.0	-2.0
1967.750000	---	35.16	54.00	18.84	500.0	200.0	H	3.0	-0.1
2010.750000	46.53	---	74.00	27.47	500.0	100.0	V	30.0	0.1
2518.750000	---	38.00	54.00	16.00	500.0	200.0	H	21.0	1.4
2732.750000	49.19	---	74.00	24.81	500.0	100.0	V	46.0	2.3
2899.750000	---	37.95	54.00	16.05	500.0	200.0	V	46.0	3.0
2965.750000	49.02	---	74.00	24.98	500.0	100.0	V	0.0	3.3

Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

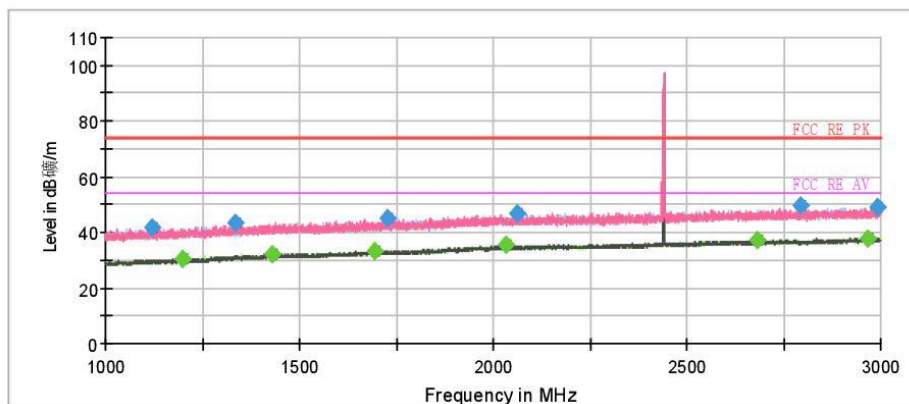


Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3886.875000	---	30.10	54.00	23.90	500.0	200.0	H	34.0	-4.9
3903.750000	41.47	---	74.00	32.53	500.0	100.0	H	23.0	-4.9
4803.750000	48.94	---	74.00	25.06	500.0	100.0	V	11.0	-1.6
4803.750000	---	41.04	54.00	12.96	500.0	200.0	V	11.0	-1.6
6806.250000	---	36.45	54.00	17.55	500.0	200.0	V	32.0	1.1
7245.000000	47.22	---	74.00	26.78	500.0	100.0	H	34.0	1.4
9330.000000	49.04	---	74.00	24.96	500.0	200.0	V	42.0	3.0
9853.125000	---	37.45	54.00	16.55	500.0	200.0	V	42.0	3.1
12652.500000	49.78	---	74.00	24.22	500.0	100.0	V	22.0	5.1
12716.250000	---	38.84	54.00	15.16	500.0	200.0	V	11.0	5.1
17696.250000	---	43.79	54.00	10.21	500.0	100.0	V	2.0	9.8
17833.125000	55.36	---	74.00	18.64	500.0	100.0	H	45.0	10.1

Radiates Emission from 3GHz to 18GHz

DH5-Channel 39

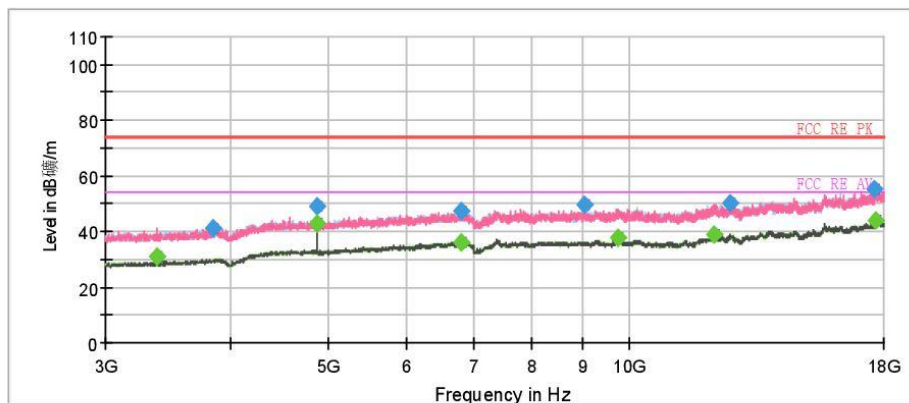


Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1118.500000	41.47	---	74.00	32.53	500.0	200.0	V	14.0	-6.8
1197.500000	---	30.49	54.00	23.51	500.0	100.0	V	14.0	-6.1
1334.250000	43.68	---	74.00	30.32	500.0	100.0	V	14.0	-5.0
1430.750000	---	32.31	54.00	21.69	500.0	200.0	H	31.0	-4.2
1694.000000	---	33.51	54.00	20.49	500.0	100.0	H	0.0	-2.2
1725.750000	44.89	---	74.00	29.11	500.0	200.0	V	34.0	-2.0
2031.500000	---	35.30	54.00	18.70	500.0	200.0	H	45.0	0.1
2062.750000	46.59	---	74.00	27.41	500.0	100.0	V	14.0	0.2
2681.000000	---	37.44	54.00	16.56	500.0	200.0	V	0.0	2.1
2793.000000	49.51	---	74.00	24.49	500.0	100.0	V	24.0	2.6
2965.750000	---	37.92	54.00	16.09	500.0	200.0	H	31.0	3.3
2993.750000	48.80	---	74.00	25.20	500.0	100.0	H	40.0	3.4

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

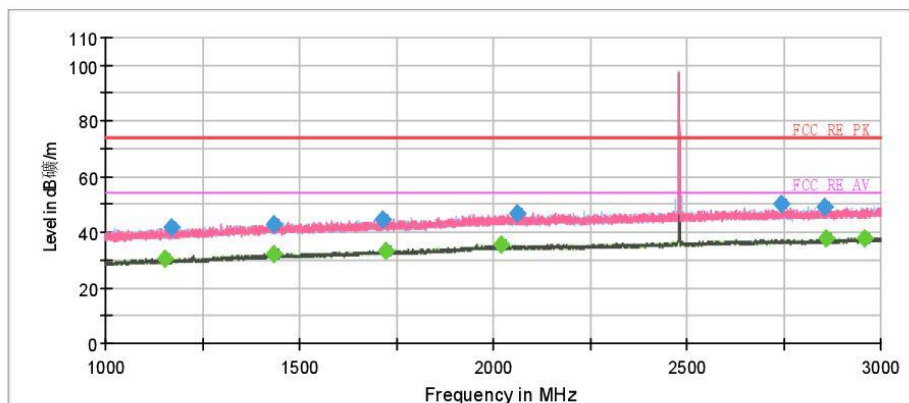


Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3375.000000	---	31.29	54.00	22.71	500.0	100.0	V	0.0	-6.2
3834.375000	41.22	---	74.00	32.78	500.0	100.0	H	13.0	-5.0
4880.625000	---	42.97	54.00	11.03	500.0	200.0	H	45.0	-1.6
4880.625000	48.80	---	74.00	25.20	500.0	200.0	H	45.0	-1.6
6793.125000	---	36.37	54.00	17.63	500.0	100.0	H	45.0	1.1
6811.875000	47.36	---	74.00	26.64	500.0	200.0	H	43.0	1.1
9041.250000	49.42	---	74.00	24.58	500.0	200.0	H	0.0	3.1
9753.750000	---	37.58	54.00	16.42	500.0	100.0	H	34.0	3.2
12185.625000	---	39.12	54.00	14.88	500.0	200.0	V	32.0	4.5
12650.625000	49.99	---	74.00	24.01	500.0	100.0	V	2.0	5.1
17602.500000	55.03	---	74.00	18.97	500.0	200.0	H	45.0	9.8
17685.000000	---	43.89	54.00	10.11	500.0	100.0	V	0.0	9.8

Radiates Emission from 3GHz to 18GHz

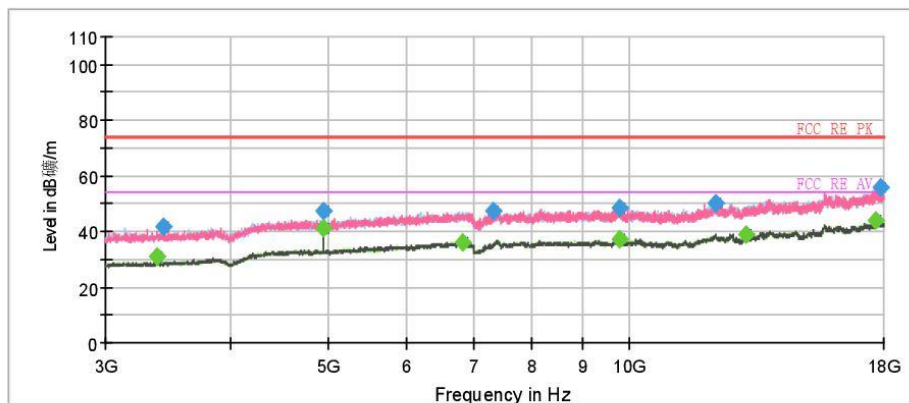
DH5-Channel 78



Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1153.250000	---	30.41	54.00	23.59	500.0	200.0	H	42.0	-6.5
1170.750000	41.47	---	74.00	32.53	500.0	100.0	H	0.0	-6.3
1433.000000	42.76	---	74.00	31.24	500.0	100.0	H	33.0	-4.2
1433.250000	---	31.97	54.00	22.03	500.0	200.0	V	0.0	-4.2
1713.750000	44.58	---	74.00	29.42	500.0	200.0	H	23.0	-2.1
1721.500000	---	33.40	54.00	20.60	500.0	100.0	H	23.0	-2.0
2019.250000	---	35.41	54.00	18.59	500.0	200.0	V	45.0	0.1
2060.250000	46.54	---	74.00	27.46	500.0	200.0	H	45.0	0.2
2745.750000	50.47	---	74.00	23.53	500.0	100.0	V	0.0	2.3
2853.750000	49.28	---	74.00	24.72	500.0	200.0	H	42.0	2.9
2857.500000	---	37.54	54.00	16.46	500.0	100.0	H	45.0	2.9
2958.250000	---	37.98	54.00	16.02	500.0	100.0	H	45.0	3.2

Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



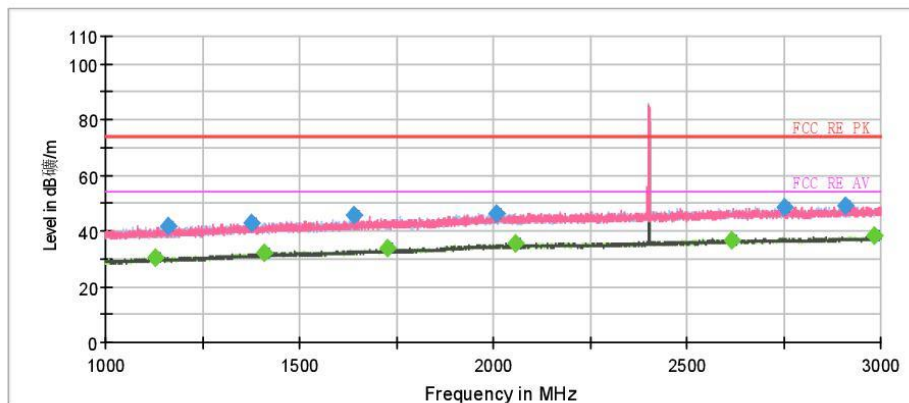
Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3375.00000	---	31.03	54.00	22.97	500.0	100.0	V	0.0	-6.2
3429.37500	41.48	---	74.00	32.52	500.0	200.0	V	12.0	-6.0
4959.37500	47.53	---	74.00	26.47	500.0	100.0	V	42.0	-1.5
4959.37500	---	41.10	54.00	12.90	500.0	200.0	V	42.0	-1.5
6813.75000	---	36.37	54.00	17.63	500.0	200.0	V	45.0	1.1
7331.25000	47.53	---	74.00	26.47	500.0	100.0	V	45.0	1.7
9796.87500	---	37.33	54.00	16.67	500.0	200.0	V	0.0	3.2
9802.50000	48.24	---	74.00	25.76	500.0	200.0	H	13.0	3.2
12219.37500	50.01	---	74.00	23.99	500.0	100.0	V	0.0	4.6
13119.37500	---	39.16	54.00	14.84	500.0	200.0	H	45.0	4.8
17679.37500	---	43.84	54.00	10.16	500.0	200.0	V	45.0	9.8
17872.50000	55.71	---	74.00	18.30	500.0	100.0	V	0.0	10.2

Radiates Emission from 3GHz to 18GHz

The Radiates Emission was performed in all EDR mode (2DH5 and 3DH5), 3DH5 was selected as the worse condition. The test data of the worst-case condition was recorded in this report.

3DH5-Channel 0



Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1129.250000	---	30.59	54.00	23.41	500.0	100.0	H	45.0	-6.7
1161.250000	41.80	---	74.00	32.20	500.0	200.0	H	31.0	-6.4
1377.000000	43.11	---	74.00	30.89	500.0	100.0	H	45.0	-4.6
1410.250000	---	32.11	54.00	21.89	500.0	200.0	V	0.0	-4.4
1640.250000	45.50	---	74.00	28.50	500.0	200.0	V	11.0	-2.7
1726.000000	---	33.57	54.00	20.43	500.0	100.0	V	3.0	-2.0
2007.500000	46.33	---	74.00	27.67	500.0	200.0	H	31.0	0.1
2058.500000	---	35.34	54.00	18.66	500.0	100.0	V	21.0	0.2
2615.500000	---	36.86	54.00	17.14	500.0	200.0	H	45.0	1.8
2753.000000	48.77	---	74.00	25.23	500.0	200.0	V	0.0	2.4
2910.000000	48.84	---	74.00	25.16	500.0	100.0	V	3.0	3.0
2984.500000	---	38.27	54.00	15.73	500.0	100.0	H	45.0	3.4

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz