

# MerchSource, LLC.

## TEST REPORT

### SCOPE OF WORK

EMC TESTING—SEE PAGE 2

### REPORT NUMBER

230403095GZU-001

### ISSUE DATE

25-July-2023

### [REVISED DATE]

[-----]

### PAGES

53

### DOCUMENT CONTROL NUMBER

FCC BT 3.0-f

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## TEST REPORT

Applicant Name & : MerchSource, LLC.  
Address : 7755 Irvine Center Drive, Suite 100, Irvine, CA 92618, USA.  
Manufacturing Site : Same as applicant  
Intertek Report No: 230403095GZU-001  
FCC ID: 2AEVM1016957

## Test standards

**47 CFR PART 15 Subpart C: 2021 section 15.247**

## Sample Description

Product : Massaging Realtouch Eye Mask Hot and Cold with Speaker  
Model No. : 1016957, 1017454, 1017477, 101XXXX (where XXXX can be digits  
0000-9999 which represent different customers)  
Electrical Rating : Type C USB Input: DC 5V  
DC 3.7V battery  
Serial No. : Not Labeled  
Date Received : 03 April 2023  
Date Test : 13 April 2023-15 April 2023  
Conducted

Prepared and Checked By



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Dean Liu  
Project Engineer

Approved By:



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Strong Yao  
Manager

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## TEST REPORT

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### 1.0 TEST RESULT SUMMARY

Test Item	Test Requirement	Test Method	Result
Antenna Requirement	FCC PART 15 C Clause 15.247 (c) and Clause 15.203	FCC PART 15 C Clause 15.247 (c) and Clause 15.203	PASS
20 dB Bandwidth	FCC PART 15 C Clause 15.247 (a)(1)	ANSI C63.10: Clause 7.8.7 & 6.9.2	PASS
Carrier Frequencies Separated	FCC PART 15 C Clause 15.247(a)(1)	ANSI C63.10: Clause 7.8.2	PASS
Hopping Channel Number	FCC PART 15 C Clause 15.247(a)(1)(iii)	ANSI C63.10: Clause 7.8.3	PASS
Dwell Time	FCC PART 15 C Clause 15.247(a)(1)(iii)	ANSI C63.10: Clause 7.8.4	PASS
Pseudorandom Frequency Hopping Sequence	FCC PART 15 C Clause 15.247(a)(1)	FCC PART 15 C Clause 15.247(a)(1)	PASS
Maximum Peak Conducted Output Power	FCC PART 15 C Clause 15.247(b)(1)	ANSI C63.10: Clause 7.8.5	PASS
Out of Band Conducted Emissions	FCC PART 15 C Clause 15.247(d)	ANSI C63.10: Clause 7.8.8	PASS
Out of Band Radiated Emission	FCC PART 15 C Clause 15.247(d)	ANSI C63.10: Clause 6.4, 6.5 and 6.6	N/A
Radiated Emissions in Restricted Bands	FCC PART 15 C Clause 15.209 & 15.247(d)	ANSI C63.10: Clause 6.4, 6.5 and 6.6	PASS
Band Edges Measurement	FCC PART 15 C Clause 15.247 (d) & 15.205	ANSI C63.10: Clause 7.8.6 & 6.10	PASS
Conducted Emissions at Mains Terminals	FCC PART 15 C Clause 15.207	ANSI C63.10: Clause 6.2	N/A

**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.

ANSI C63.10: the detail version is ANSI C63.10:2013 in the whole report.

All models are the same except the model name, model: 1016957 was selected for fully testing.

## TEST REPORT

### 2.0 General Description

#### 2.1 Product Description

Operating Frequency: 2402 MHz – 2480MHz  
 Type of Modulation: GFSK, ( $\pi/4$ )-DQPSK, 8-DPSK  
 Number of Channels: 79 Channels  
 Channel Separation: 1 MHz  
 Dwell Time: Per channel is less than 0.4s  
 Antenna Type: Integral  
 Antenna Gain: -2.17 dBi  
 Speciality: Bluetooth 3.0 with EDR  
 Function: Speaker with BT function to transmit and receive audio signal

Power Supply: DC 3.7V

Remark: The device meets the requirements stated within Parts 15.247(g) & (h) in that they were developed under the Bluetooth protocol and operate as a true frequency hopping system. The device does not have the ability to be coordinated with other FHSS systems in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitters.

EUT modulation and data packet during test:

For Normal mode:

The EUT has been tested on the Modulation of GFSK with DH1, DH3 and DH5 data packet.

For EDR mode:

1. The EUT has been tested on the Modulation of ( $\pi/4$ )-DQPSK with 2DH1, 2DH3 and 2DH5 data packet.
2. The EUT has been tested on the Modulation of 8-DPSK with 3DH1, 3DH3 and 3DH5 data packet.

EUT channels and frequencies list:

Test frequencies are lowest channel 0: 2402 MHz, middle channel 39: 2441 MHz and highest channel 78: 2480 MHz.

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	27	2429	54	2456
1	2403	28	2430	55	2457
2	2404	29	2431	56	2458
3	2405	30	2432	57	2459
4	2406	31	2433	58	2460
5	2407	32	2434	59	2461
6	2408	33	2435	60	2462
7	2409	34	2436	61	2463

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8	2410	35	2437	62	2464
9	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454	/	/
26	2428	53	2455	/	/

### 2.2 Related Submittal(s) Grants

This is an application for certification of:

DSS-Part 15 Spread Spectrum Transmitter (BT transmitter portion)

### 2.3 Test Methodology

Radiated emission measurements was performed according to the procedures in ANSI C63.10:2013. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans and final tests were performed in the semi-anechoic chamber to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise.

### 2.4 Test Facility

All tests were performed at:

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch  
Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China

Except Conducted Emissions was performed at:

Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China

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A2LA Certificate Number 0078.10

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

### 3.0 System Test Configuration

#### 3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. It was powered by DC 3.7V.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. The spurious emissions more than 20 dB below the permissible value are not reported.

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:

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

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

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		bottom
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### 3.2 EUT Exercising Software

Description	Manufacturer	Model No.	SN/Version	Supplied by
For fixing frequency	JIELI	FCC assist	1.0.4	Applicant

### 3.3 Special Accessories

No special accessories used

### 3.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	20 dB Bandwidth	2.3%
	6dB Bandwidth	
	99% Bandwidth	
2	Carrier Frequencies Separated	2.3%
3	Dwell Time	1.2%
4	Maximum Peak Conducted Output Power	1.5dB
5	Peak Power Spectral Density	1.5dB
6	Out of Band Conducted Emissions	1.5dB
7	Band edges measurement	1.5dB
8	Radiated Emissions	4.7 dB (25 MHz-1 GHz)
		4.8 dB (1 GHz-18 GHz)
		5.21dB (18GZH-26GHz)
9	Conducted Emissions at Mains Terminals	2.58dB
10	Temperature	0.5 °C
11	Humidity	0.4 %
12	Time	1.2%

The measurement uncertainty describes the overall uncertainty of the given measured value during the operation of the EUT.

Measurement uncertainty is calculated in accordance with ETSI TR 100 028-2001.

The measurement uncertainty is given with a confidence of 95%, k=2.

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.



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Uncertainty and Compliance – Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value

### 3.5 Equipment Modification

Any modifications installed previous to testing by MerchSource, LLC. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.

### 3.6 Support Equipment List and Description

This product was tested with corresponding support equipment as below:

#### Support Equipment

Description	Manufacturer	Model No.	SN/Version	Supplied by
NoteBook	Dell	Latitude 5400	--	Intertek
Control board	Threesixty	--	--	Threesixty

#### Cable

Description	Model No.	Connector type	Cable length/type	Supplied by
Antenna cable	RF-01	SMA	0.2 m(shielded)	Intertek
USB extension cord	USB-01	USB	1.0 m(unshielded)	Threesixty

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### 4.0 Measurement Results

#### 4.1 Antenna Requirement

Standard requirement:

15.203 requirement:

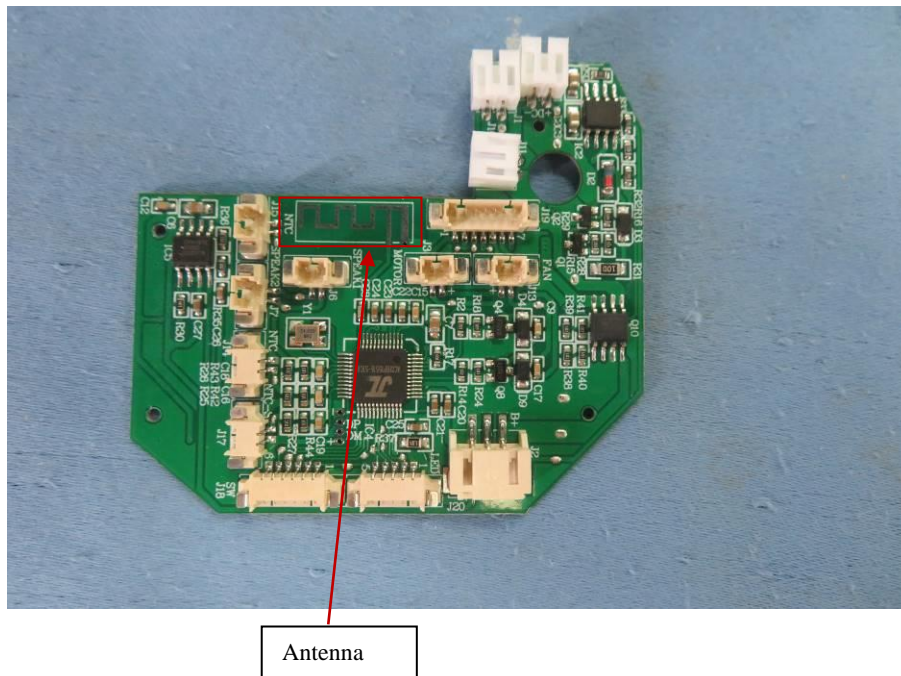
For intentional device. According to 15.203, an intentional radiator shall be designed to Ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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.

EUT Antenna

The antenna is an integral antenna and no consideration of replacement. The best case gain of the antenna is -2.17 dBi

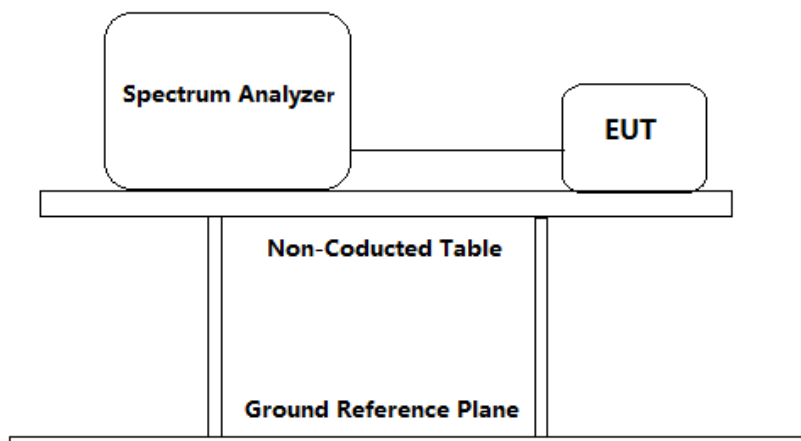


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### 4.2 20 dB Bandwidth

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: Clause 7.8.7 & 6.9.2
Test Status:	Pre-test the EUT in continuous transmitting mode at the lowest (2402 MHz), middle (2441 MHz) and highest (2480 MHz) channels with different data package Compliance test in normal mode (DH1), and EDR mode (2DH1 & 3DH1) as the worst case was found.

#### Test Configuration:



#### Test Procedure:

Removed the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum. The transmitter was operated at its maximum carrier power measured under normal test conditions.

1. The instrument center frequency was set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer was between two times and five times the OBW(20 dB Bandwidth).
2. The nominal IF filter bandwidth (3 dB RBW) was in the range of 1% to 5% of the OBW, and VBW was approximately three times the RBW.
3. Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope was more than  $[10 \log (OBW/RBW)]$  below the reference level.
4. Step 1) through step 3) might require iteration to adjust within the specified range.

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5. The dynamic range of the instrument at the selected RBW was more than 10 dB below the target “-20 dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW was at least 30 dB below the reference value.
6. Peak detection and max hold mode (until the trace stabilizes) was used.
7. Used the 20dB bandwidth function of the instrument and reported the measured bandwidth.
8. The occupied bandwidth was reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division was clearly labeled. Tabular data was reported in addition to the plot(s).

### Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Test result:

Normal mode (DH1):

Test Channel	Bandwidth(MHz)	2/3 bandwidth(MHz)
Lowest	1.051	0.701
Middle	1.046	0.697
Highest	1.051	0.701

EDR mode (2DH1):

Test Channel	Bandwidth(MHz)	2/3 bandwidth(MHz)
Lowest	1.342	0.895
Middle	1.342	0.895
Highest	1.333	0.889

EDR mode (3DH1):

Test Channel	bandwidth(MHz)	2/3 bandwidth(MHz)
Lowest	1.342	0.895
Middle	1.298	0.865
Highest	1.298	0.865

Test result: The unit does meet the FCC requirements.

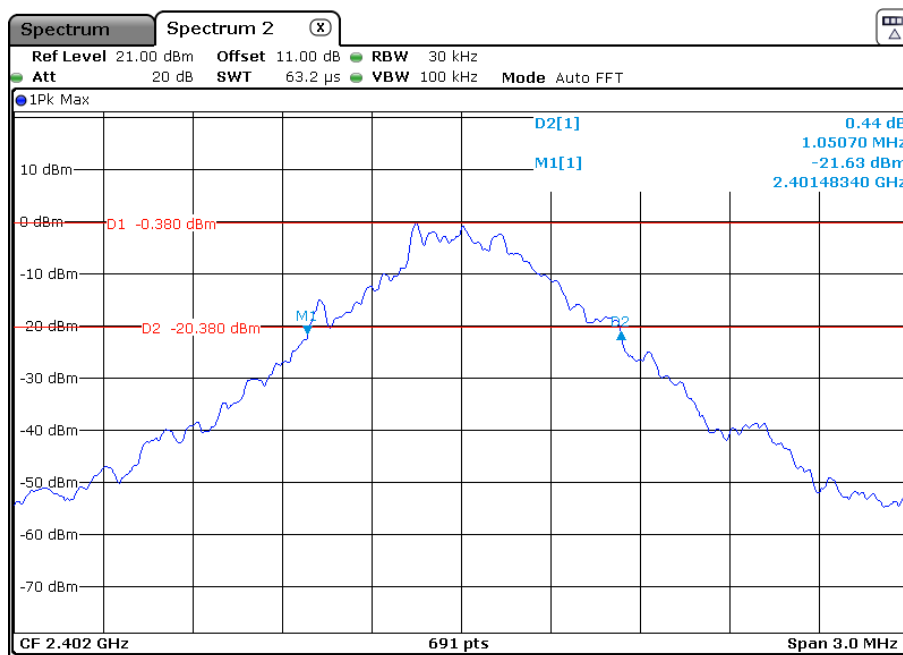
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Result plot as follows:

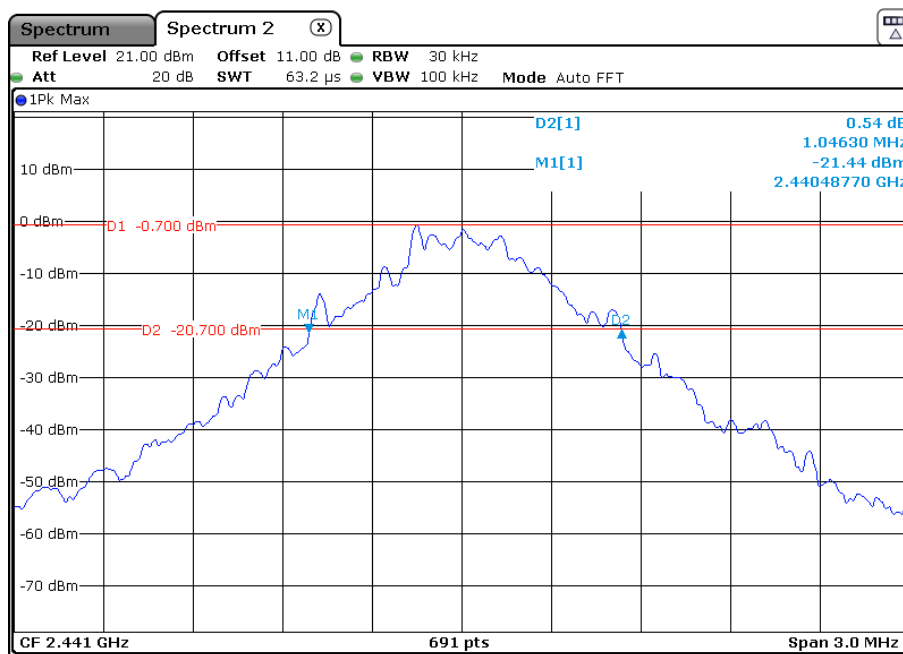
-20dB down points bandwidth

Normal mode (DH1):

Lowest Channel (2.402 GHz):

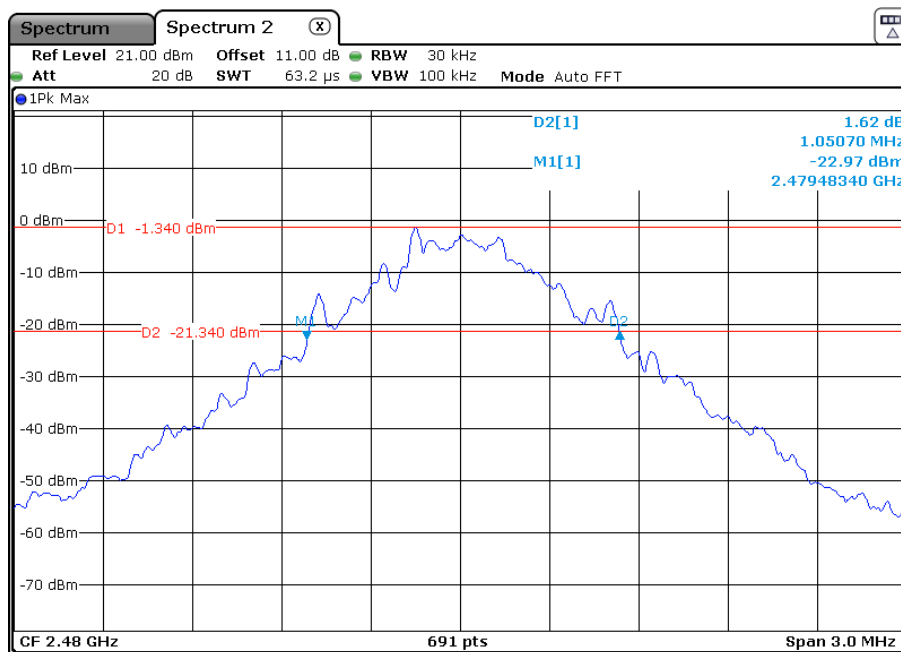


Middle Channel (2.441 GHz):



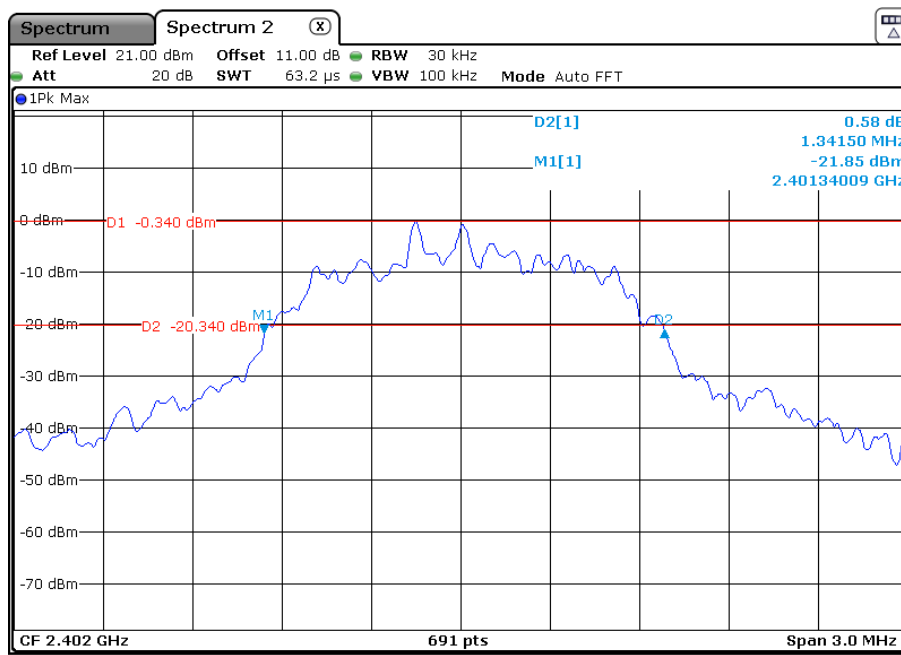
Highest Channel (2.480 GHz):

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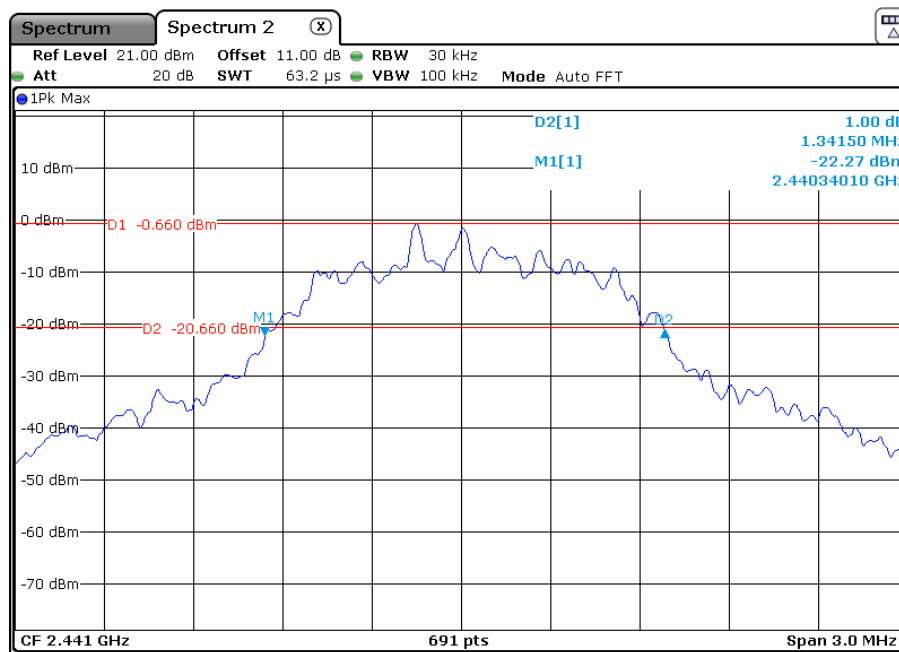
EDR mode (2DH1):

Lowest channel (2.402 GHz):

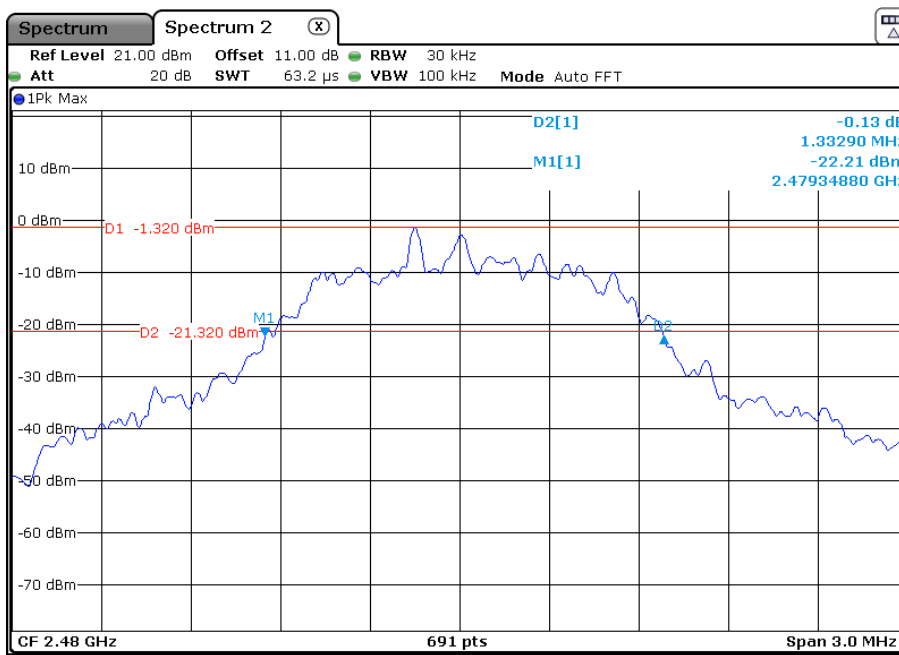


Middle channel(2.441 GHz):

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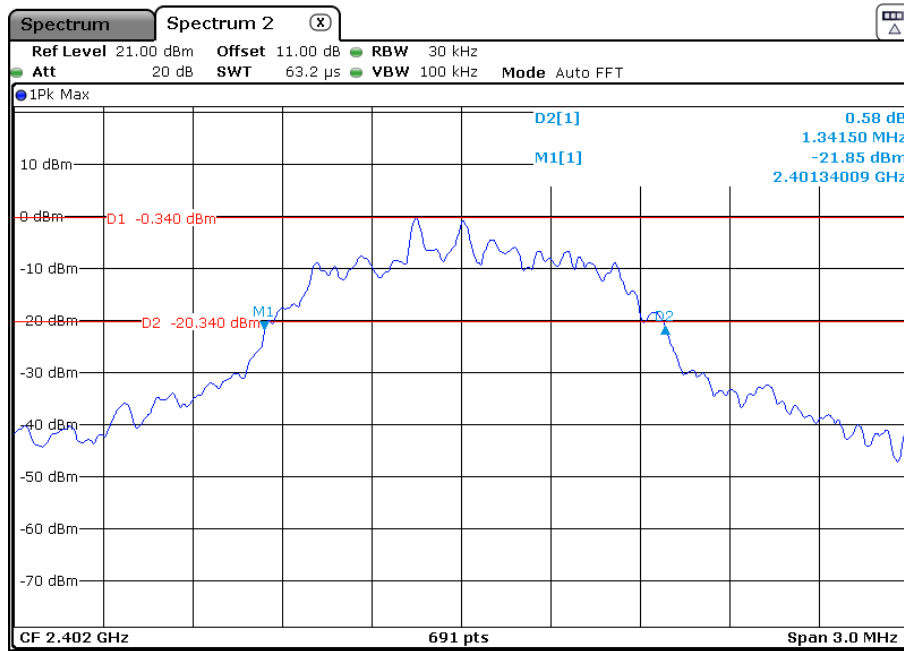
Highest channel(2.480 GHz):



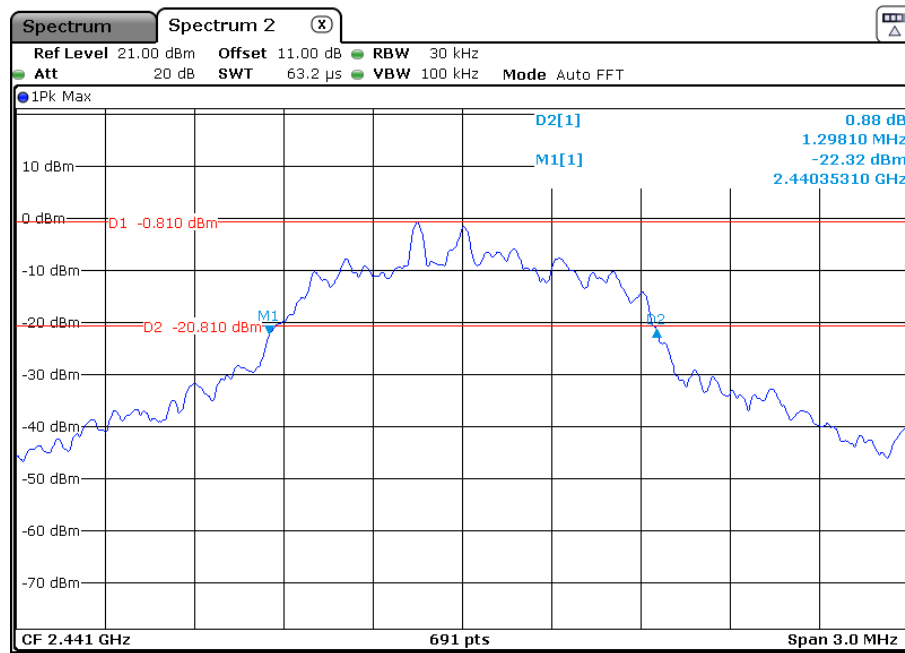
EDR mode (3DH1):

Lowest channel (2.402 GHz):

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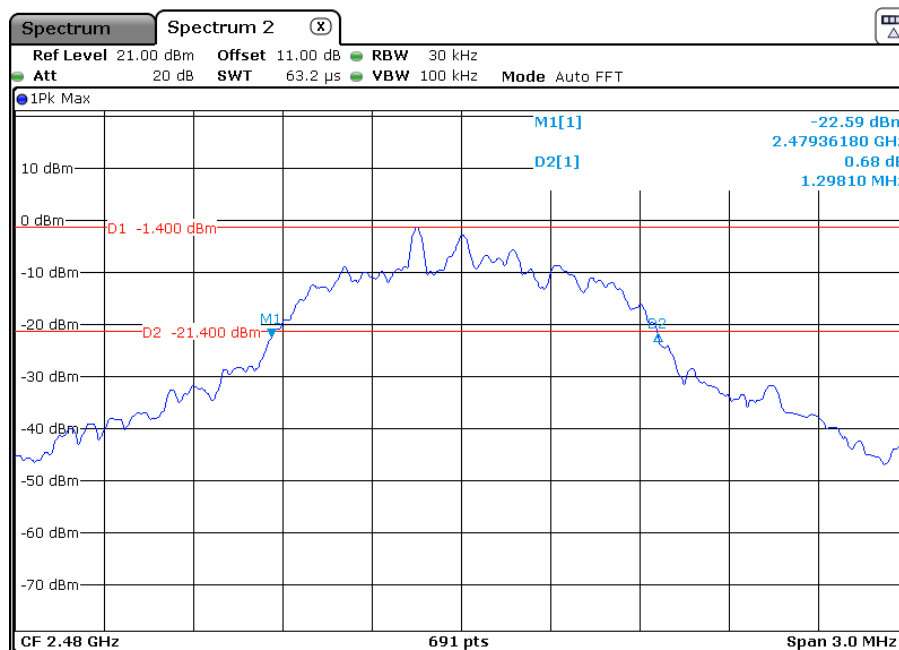
Middle channel(2.441 GHz):



Highest channel(2.480 GHz):



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### 4.3 Carrier Frequencies Separated

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:

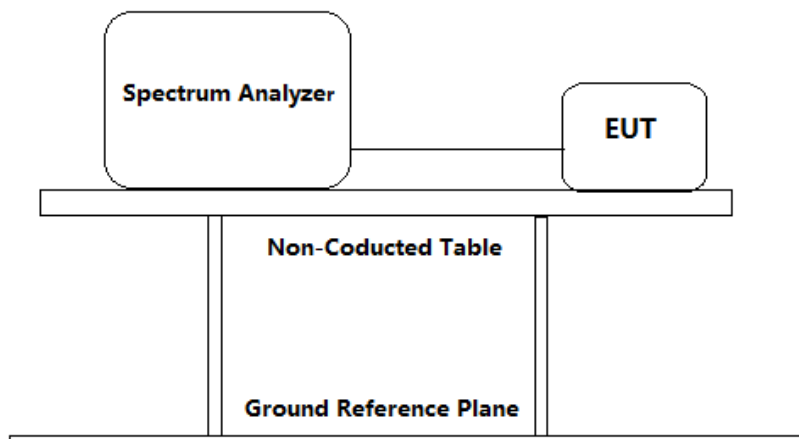
ANSI C63.10: Clause 7.8.2

Test Status:

Pre-test the EUT in continuous transmitting mode at the lowest (2402 MHz), middle (2441 MHz) and highest (2480 MHz) channel and hopping mode with different data packet. Compliance test in hopping with BDR mode (DH1) as the worst case was found.

Test Configuration:

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### Test Procedure:

1. Removed the antenna from the EUT and then connect a low attenuation RF cable from the antenna port to the spectrum.
2. Span: Wide enough to capture the peaks of two adjacent channels.
3. Set the spectrum analyzer: RBW  $\geq$  1% of the span, VBW  $\geq$  RBW, Sweep = auto; Detector Function = Peak. Trace = Max hold.
4. Allowed the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

### Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

### Test result:

Test Channel	Carrier Frequencies Separated	Pass/Fail
Lower Channels (channel 0 and channel 1)	0.999 MHz	Pass
Middle Channels (channel 39 and channel 40)	1.003 MHz	Pass
Upper Channels (channel 77 and channel 78)	1.007 MHz	Pass

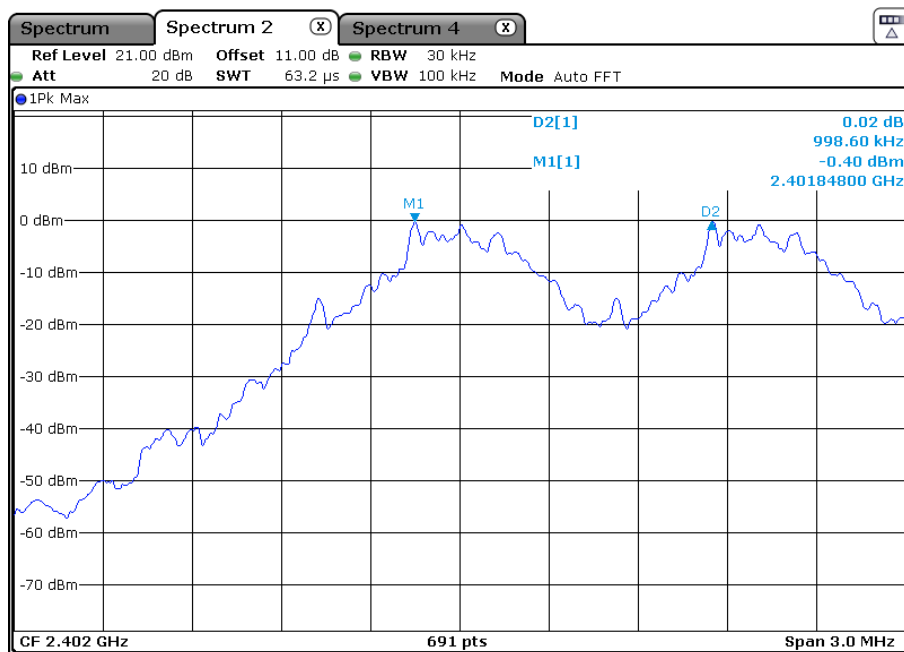
### Remark:

The limit is the maximum two-thirds of the 20 dB bandwidth: 895 KHz.

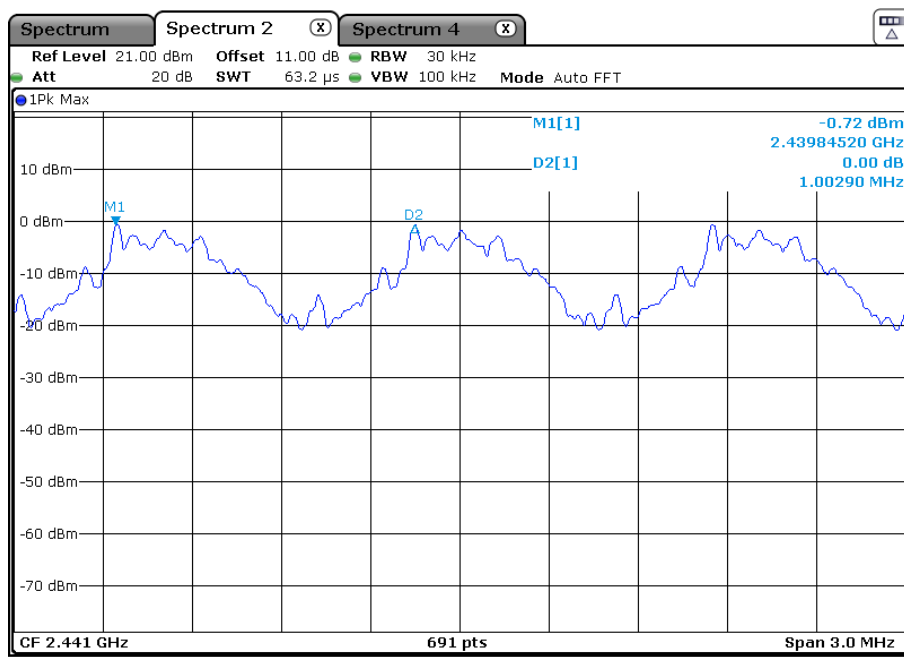
### Result plot as follows:

Lowest Channels: Carrier Frequencies Separated:

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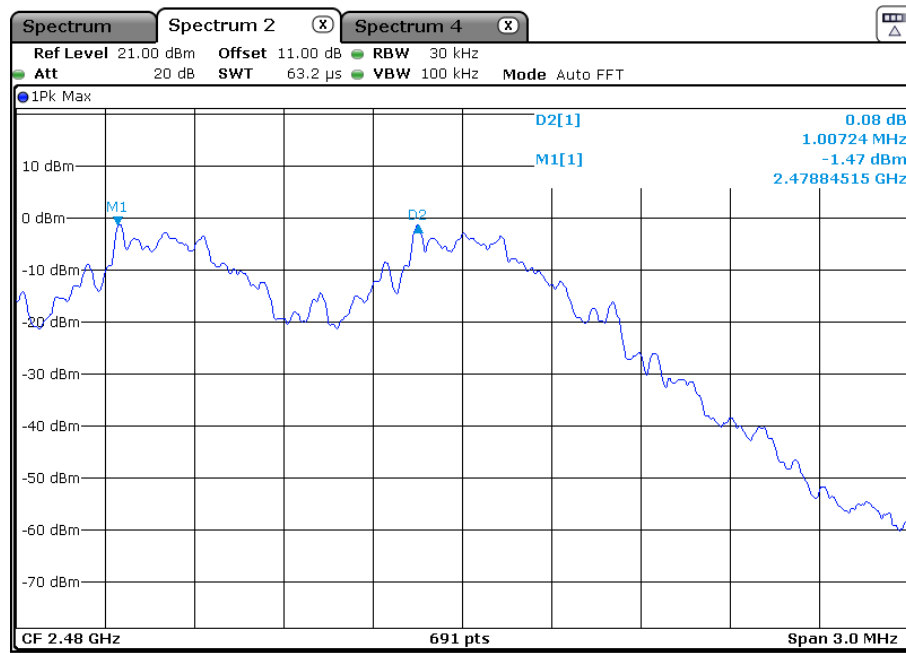


Middle Channels: Carrier Frequencies Separated:



Highest Channels: Carrier Frequencies Separated:

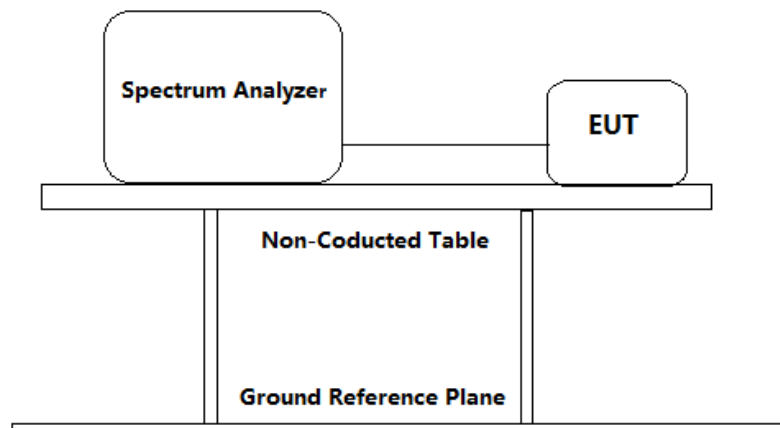
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**Test result: The unit does meet the FCC requirements.**

### 4.4 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:	NSI C63.10: Clause 7.8.3
Test Status:	Pre-test the EUT in hopping mode with different data packet. Compliance test in hopping with EDR mode (3DH1) as the worst case was found.
Test Configuration:	



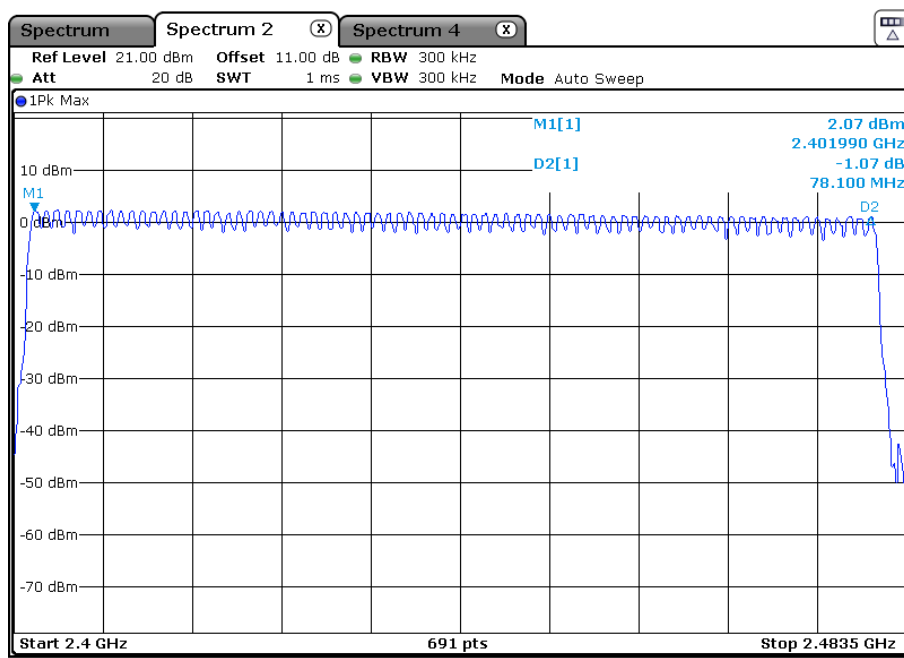
Test Procedure:

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1. Removed the antenna from the EUT and then connect a low attenuation RF cable from the antenna port to the spectrum.
2. Span: The frequency band of operation
3. Set the spectrum analyzer: RBW = 300 kHz. VBW = 300 kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.
4. Allowed the trace to stabilize.
5. Set the spectrum analyzer: start frequency = 2400 MHz, stop frequency = 2483.5 MHz. Submit the test result graph.

### Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.



**Test result: Total channels are 79 channels.**

**Test result: The unit does meet the FCC requirements.**

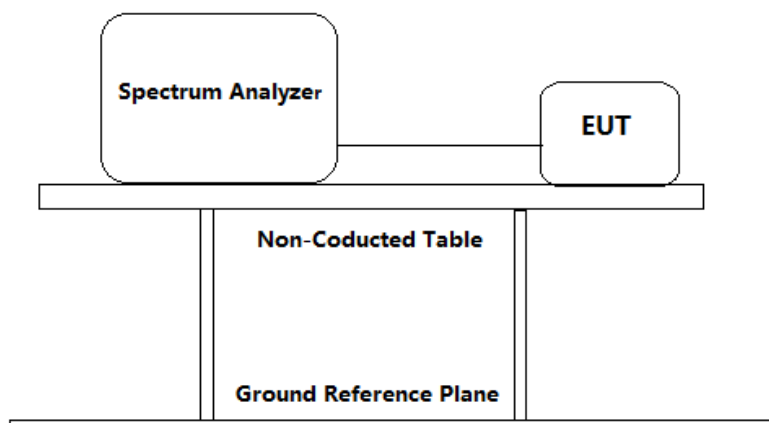
## 4.5 Dwell Time

- 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: Clause 7.8.4
- Test Status: Test the EUT in hopping mode at the middle (2441 MHz) with

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different data packet. Compliance test in hopping mode with BDR(DH5), EDR mode (2DH5, 3DH5) as the worst case was found.

Test Configuration:



Test Procedure:

1. Removed the antenna from the EUT and then connect a low attenuation RF cable from the antenna port to the spectrum.
2. Set spectrum analyzer span = 0, centered on a hopping channel.
3. Set RBW = 3 MHz and VBW = 3 MHz. Sweep = as necessary to capture the entire dwell time per hopping channel. Detector Function = Peak. Trace = Max hold;
4. Used the marker-delta function to determine the dwell time.

### Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

### Test Result:

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

Channel 39: 2.441 GHz									
DH5 time slot	=	2.913	(ms)	*	13	*	(31.6/3.16)	=	378.7 ms
2DH5 time slot	=	2.913	(ms)	*	13	*	(31.6/3.16)	=	378.7 ms
3DH5 time slot	=	2.920	(ms)	*	11	*	(31.6/3.16)	=	321.2 ms

The average time of occupancy in the specified 31.6 second period is equal to pulse width x (number of pulse in observation period) x (test period / observation period).

The results are not greater than 0.4 seconds.

**The unit does meet the FCC requirements.**

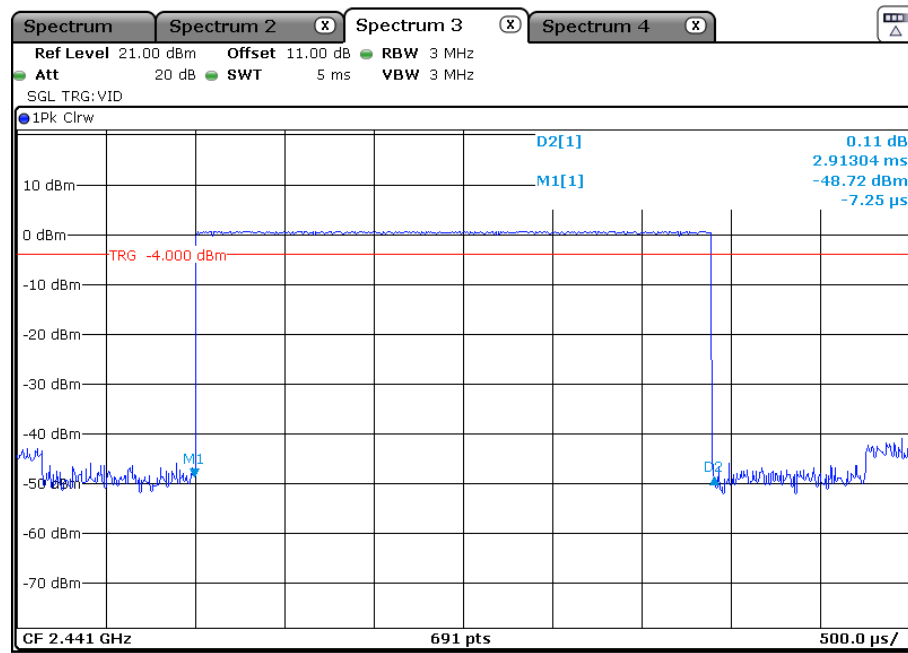
Result plot as follows:

The Middle channel: 2441MHz

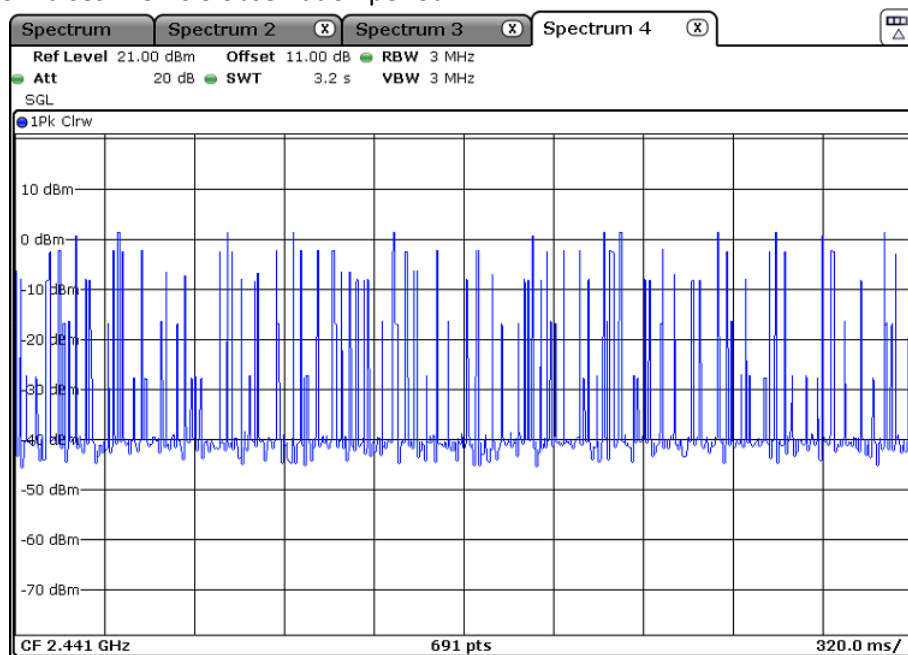
DH5

Pulse Width:

## TEST REPORT



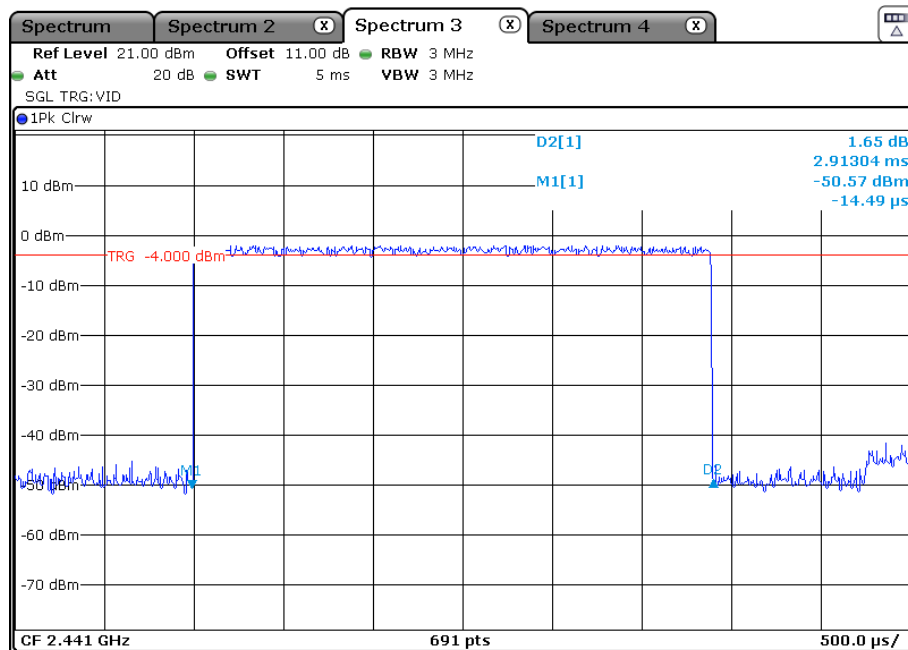
Number of Pulses in 3.16 S observation period:



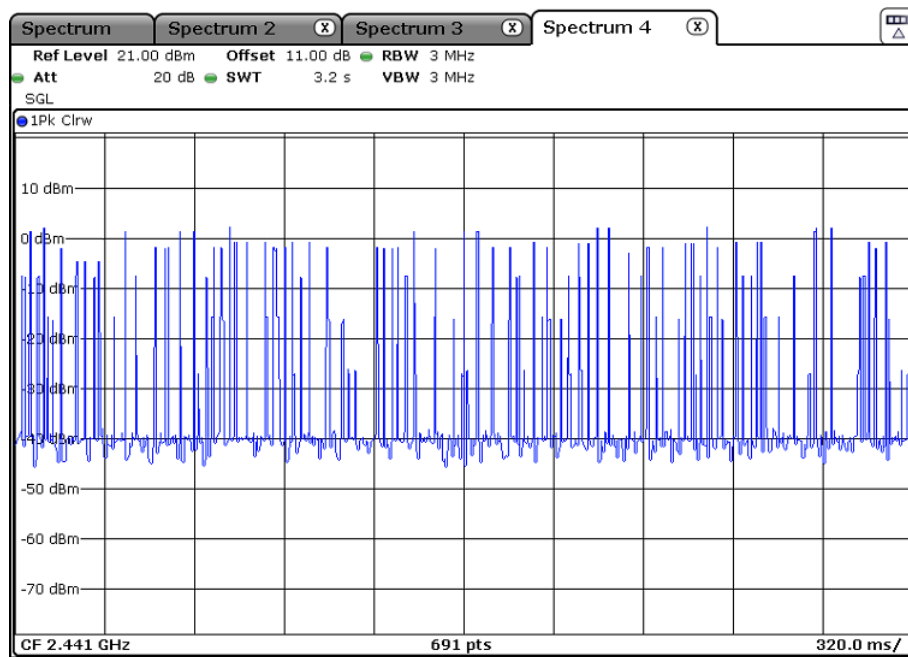
2DH5

Pulse Width:

## TEST REPORT



Number of Pulses in 3.16 S observation period:

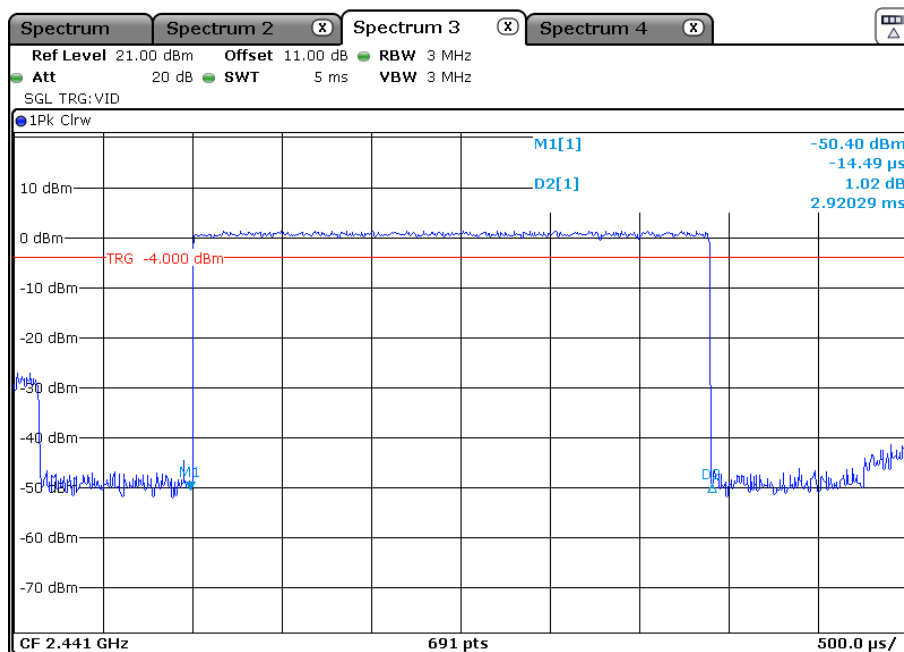


3DH5

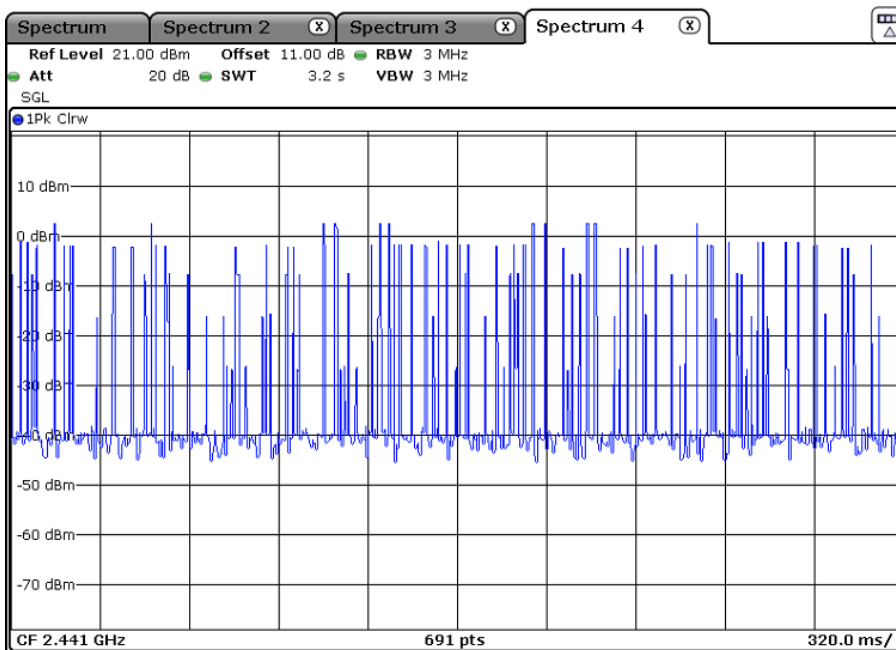
Pulse Width:



## TEST REPORT



Number of Pulses in 3.16 S observation period:



### 4.6 Pseudo random Frequency Hopping Sequence

#### 4.6.1 Standard requirement

15.247(a)(1) requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudo random ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths

## TEST REPORT

that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

### 4.6.2 EUT Pseudo random Frequency Hopping Sequence

Bluetooth protocol is utilized by the EUT. It is shown that each frequency used equally on the average by the transmitter. 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.

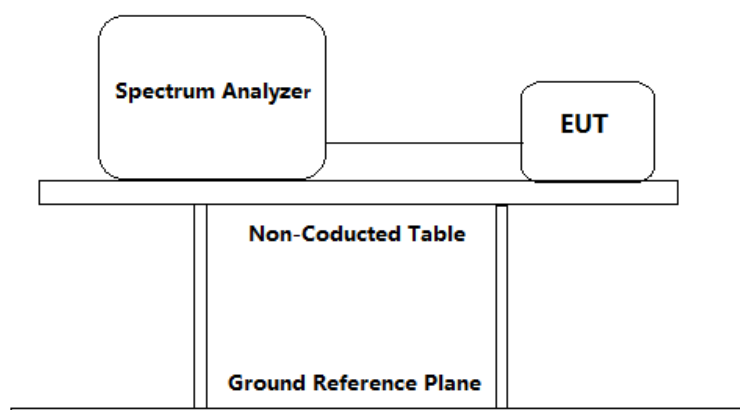
### 4.7 Maximum Peak Conducted Output Power

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: 0.125 watts. Refer to the result "Hopping channel number" of this report. The 1 watt (30.0 dBm) limit applies.

Test Method: ANSI C63.10: Clause 7.8.5

Test Status: Pre-test the EUT in continuous transmitting mode at the lowest (2402 MHz), middle (2441 MHz) and highest (2480 MHz) channel with different data packet. Compliance test in continuous transmitting mode with normal (DH1) and EDR mode (2DH1,3DH1) as the worst case was found.

Test Configuration:



Test Procedure:

1. Removed the antenna from the EUT and then connect a low attenuation RF cable (cable loss=1 dB, with 10dB attenuator) from the antenna port to the spectrum.
2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.

## TEST REPORT

- Set the spectrum analyzer: RBW = 3 MHz (RBW > 20 dB bandwidth of the emission being measured), VBW = 10 MHz. Sweep = auto; Detector Function = Peak. Trace: Max hold.
- Kept the EUT in transmitting at lowest, medium and highest channel with different data packet individually. Record the max value.

### Used Test Equipment List:

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Test result:

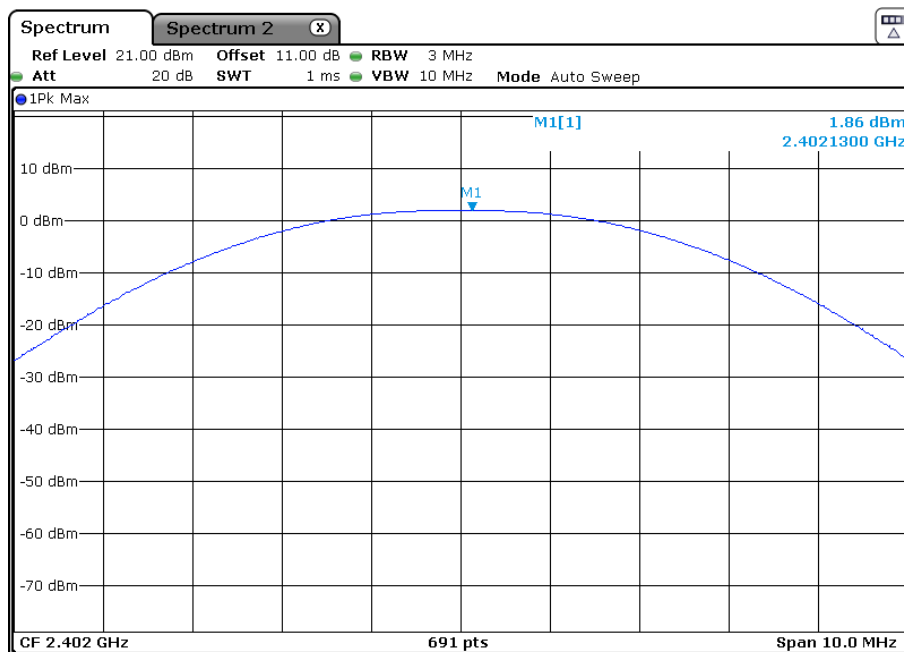
Normal mode (DH1):				
Test Channel	Fundamental Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Result
Lowest	2402	1.86	30.0	Pass
Middle	2441	1.33	30.0	Pass
Highest	2480	0.60	30.0	Pass
EDR mode(2DH1):				
Test Channel	Fundamental Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Result
Lowest	2402	2.60	30.0	Pass
Middle	2441	2.12	30.0	Pass
Highest	2480	1.38	30.0	Pass
EDR mode(3DH1):				
Test Channel	Fundamental Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Result
Lowest	2402	3.10	30.0	Pass
Middle	2441	2.59	30.0	Pass
Highest	2480	1.85	30.0	Pass
Remark: Cable lose=1.0 dB Level = Read Level + Cable Loss.				

Result plot as follows:

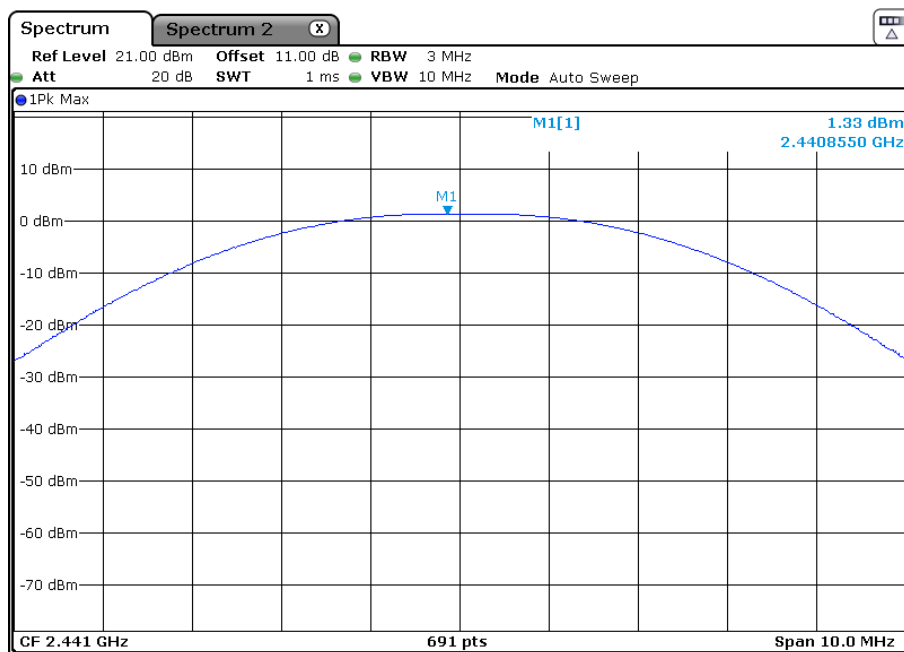
Normal mode(DH1):

The Lowest Channel(2.402 MHz):

## TEST REPORT

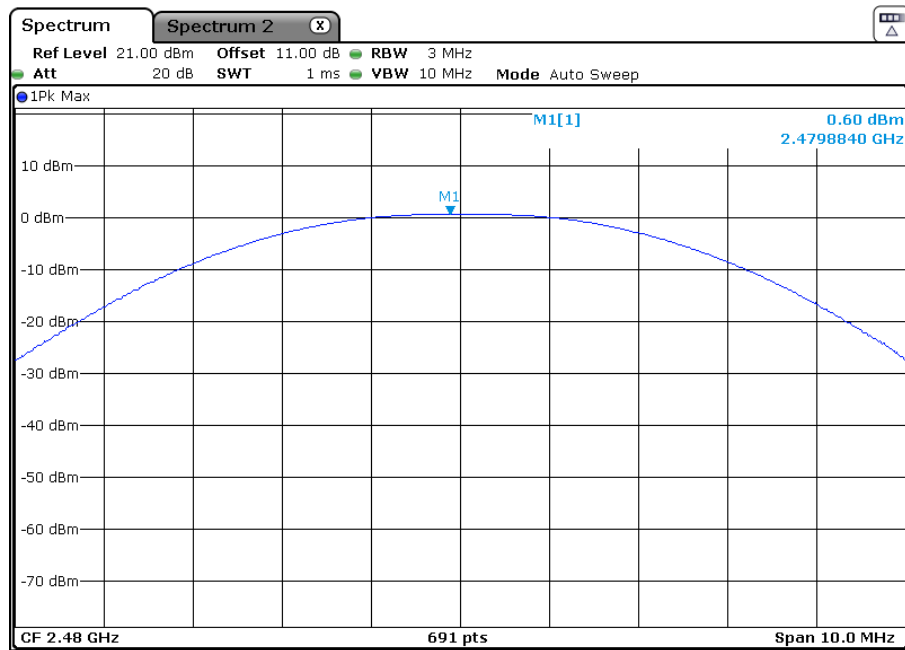


Middle Channel(2.441 GHz):



The Highest Channel (2.480 GHz):

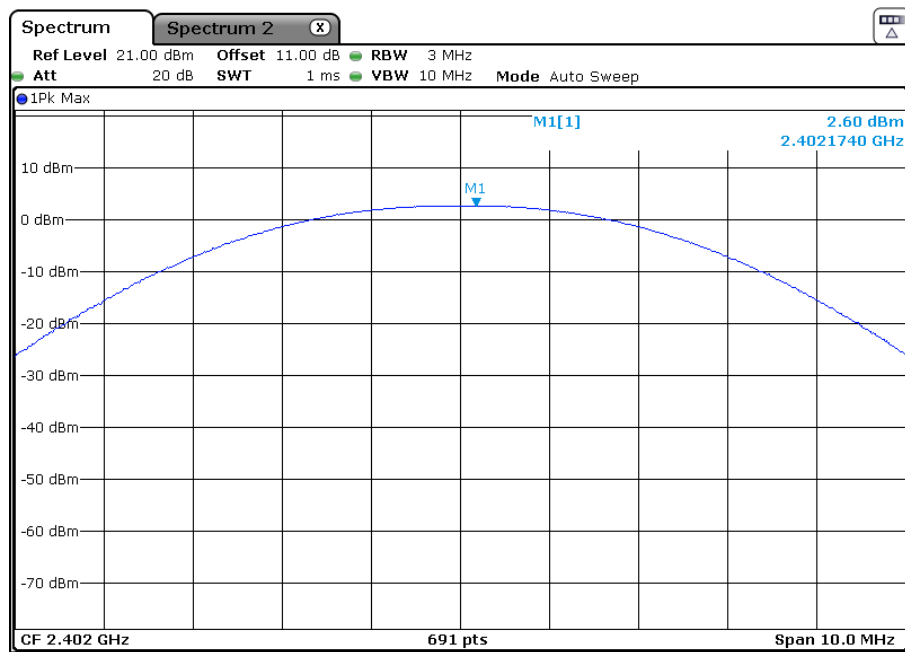
## TEST REPORT



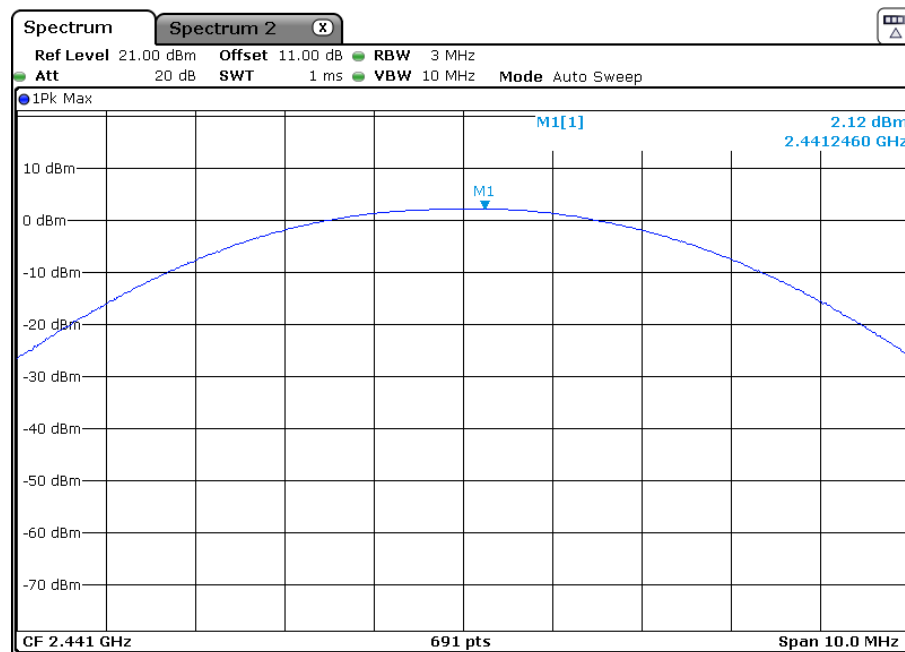
## TEST REPORT

EDR mode (2DH1):

The Lowest channel (2.402 GHz):

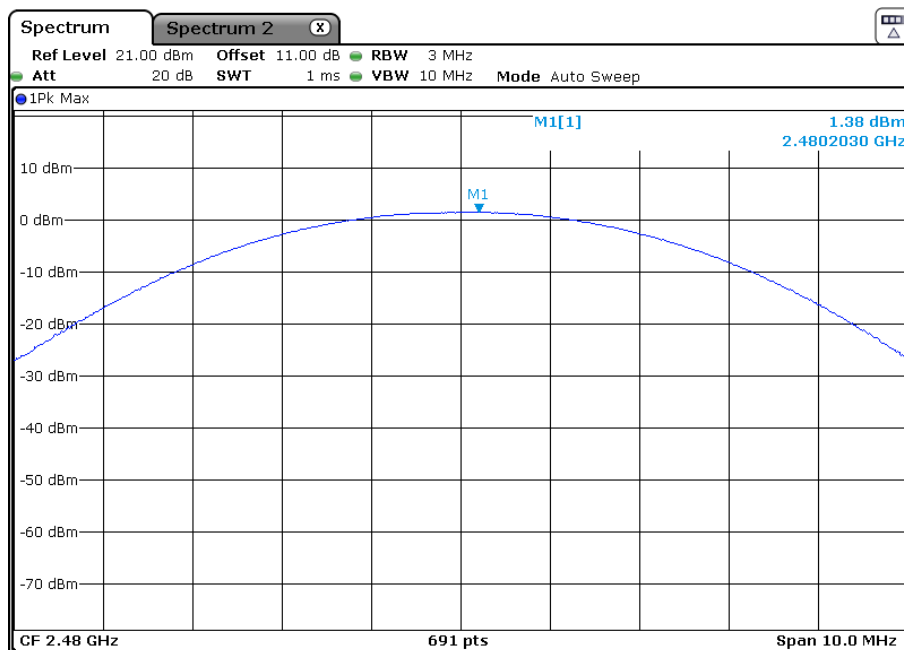


Middle channel (2.441 GHz):



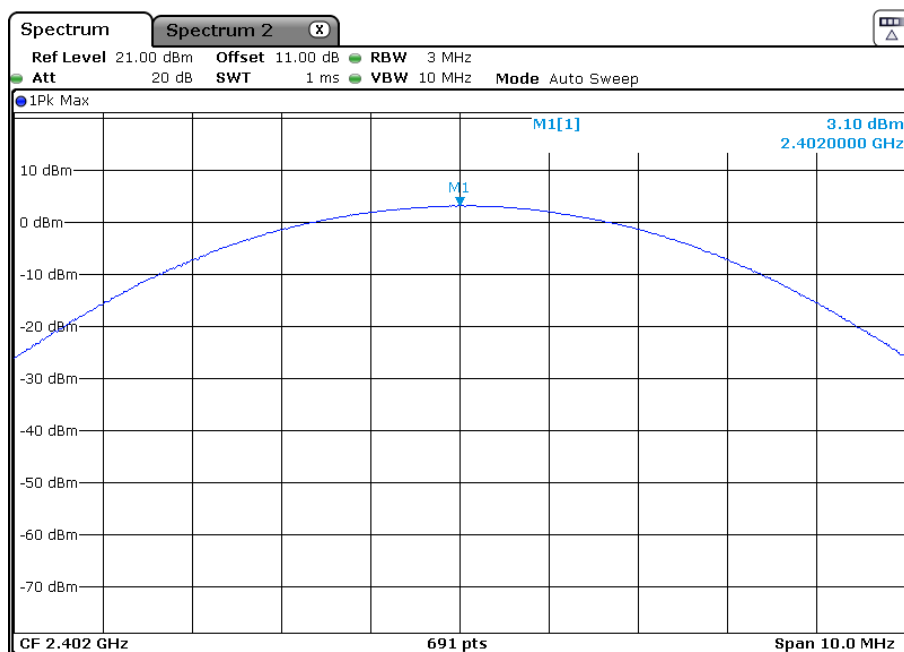
## TEST REPORT

The Highest channel (2.480 GHz):



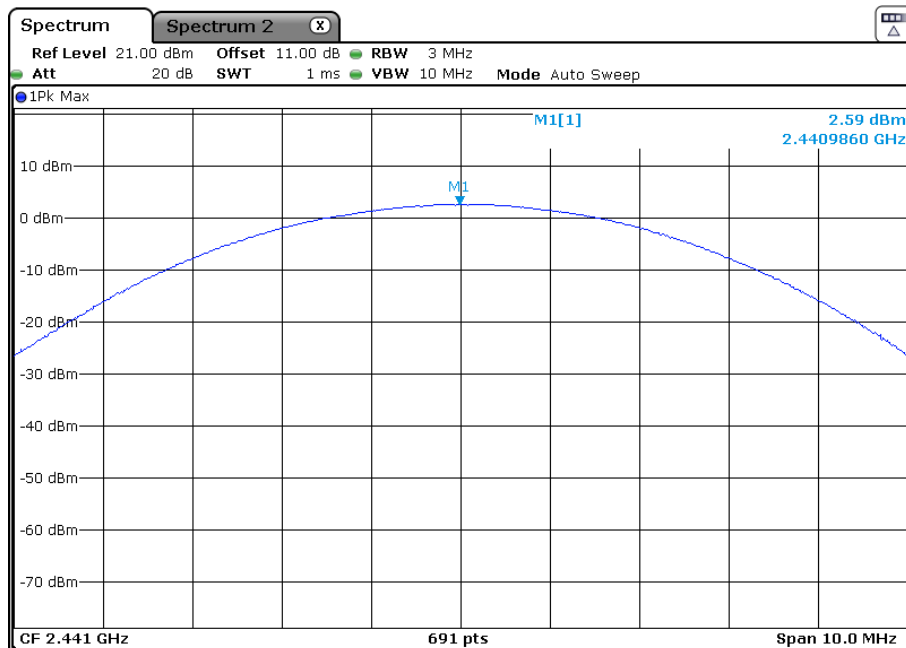
EDR mode (3DH1):

The Lowest channel (2.402 GHz):

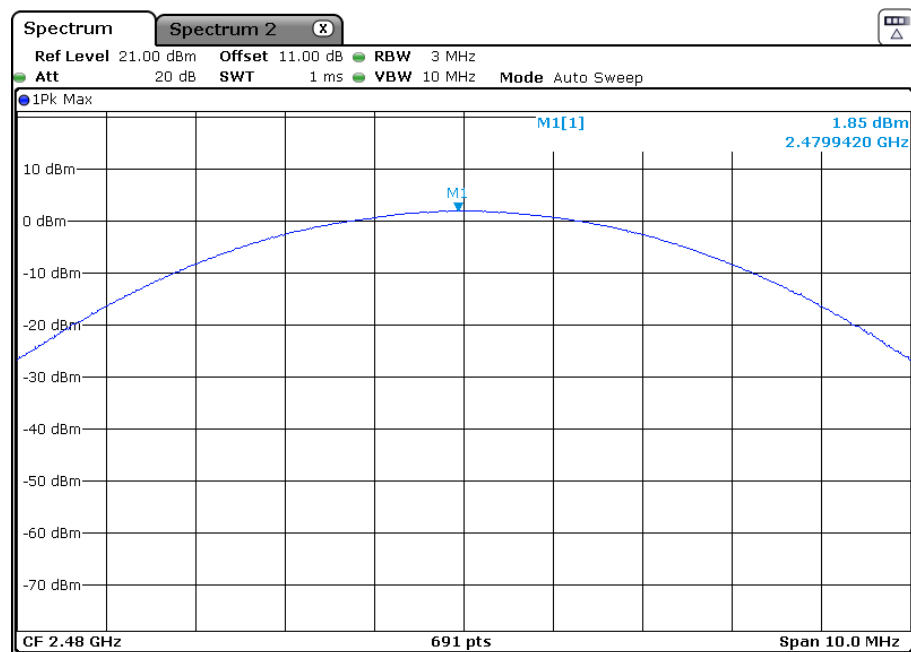


Middle channel (2.441 GHz):

## TEST REPORT



The Highest channel (2.480 GHz):



### 4.8 Out of Band Conducted Emissions

Test Requirement: FCC Part 15 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



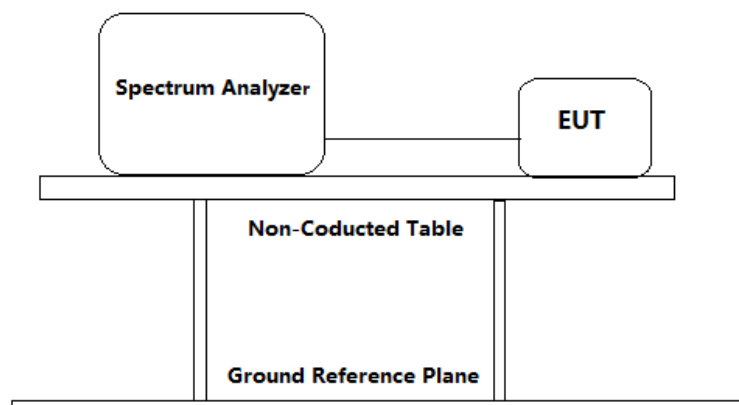
## TEST REPORT

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: Clause 7.8.8

Test Status: Pre-test the EUT in continuous transmitting mode at the lowest (2402 MHz), middle (2441 MHz) and highest (2480 MHz) channel with different data packet. Compliance test in continuous transmitting mode with normal mode (DH1) as the worst case was found.

Test Configuration:



Test Procedure:

1. Removed the antenna from the EUT and then connect a low RF cable (cable loss =1dB, with 10dB attenuator) from the antenna port to the spectrum analyser.
2. Set the spectrum analyzer: RBW=100 kHz, VBW = 300 kHz. Sweep = auto; Detector Function = Peak. Trace = Max Hold, Scan up through 10th harmonic.
3. Measured the Conducted unwanted Emissions of the test frequency with special test status.
4. Repeated until all the test status was investigated.

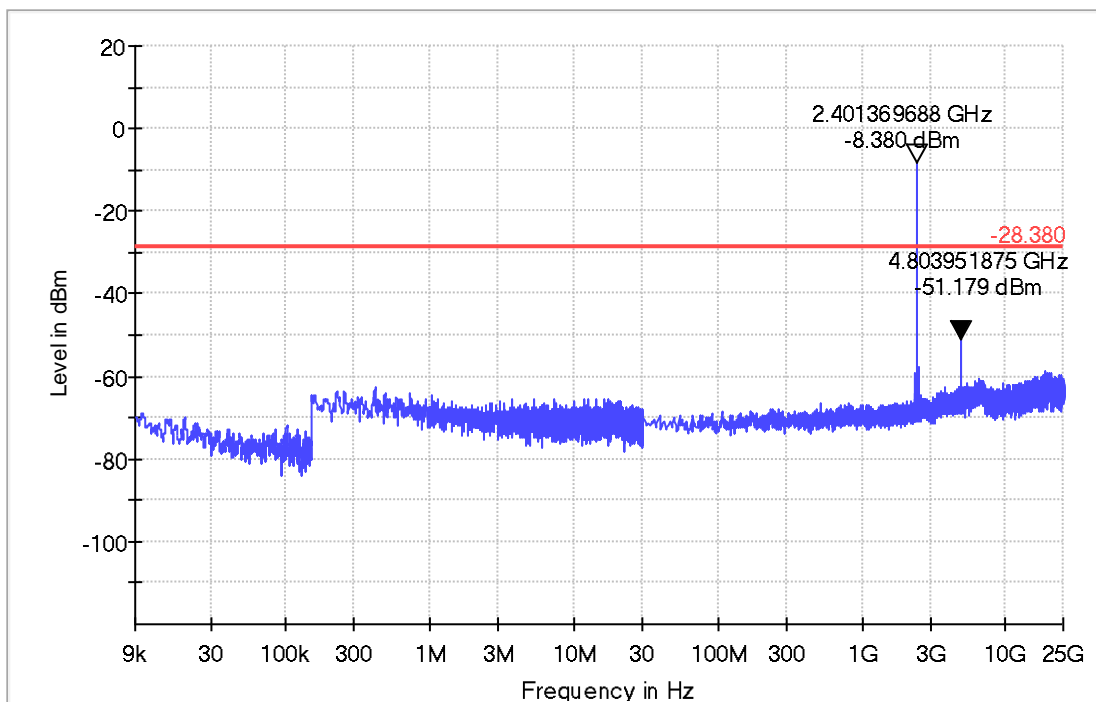
### Used Test Equipment List:

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details

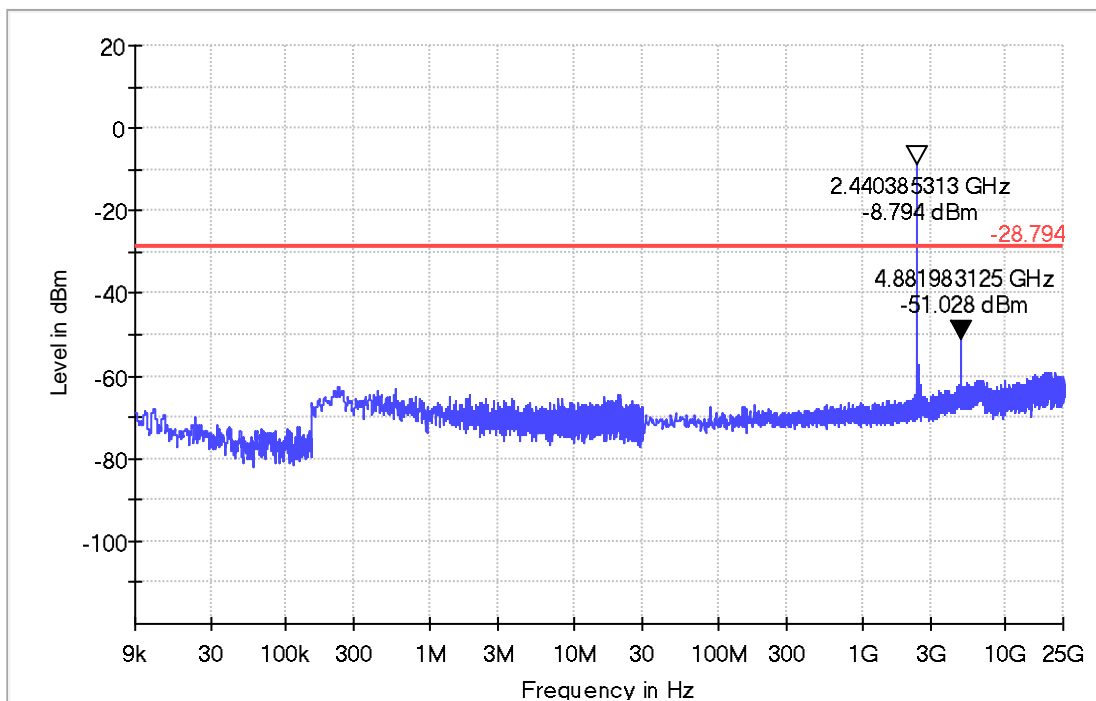
### Result plot as follows:

The Lowest Channel 2402MHz: 9 kHz to 25 GHz

## TEST REPORT

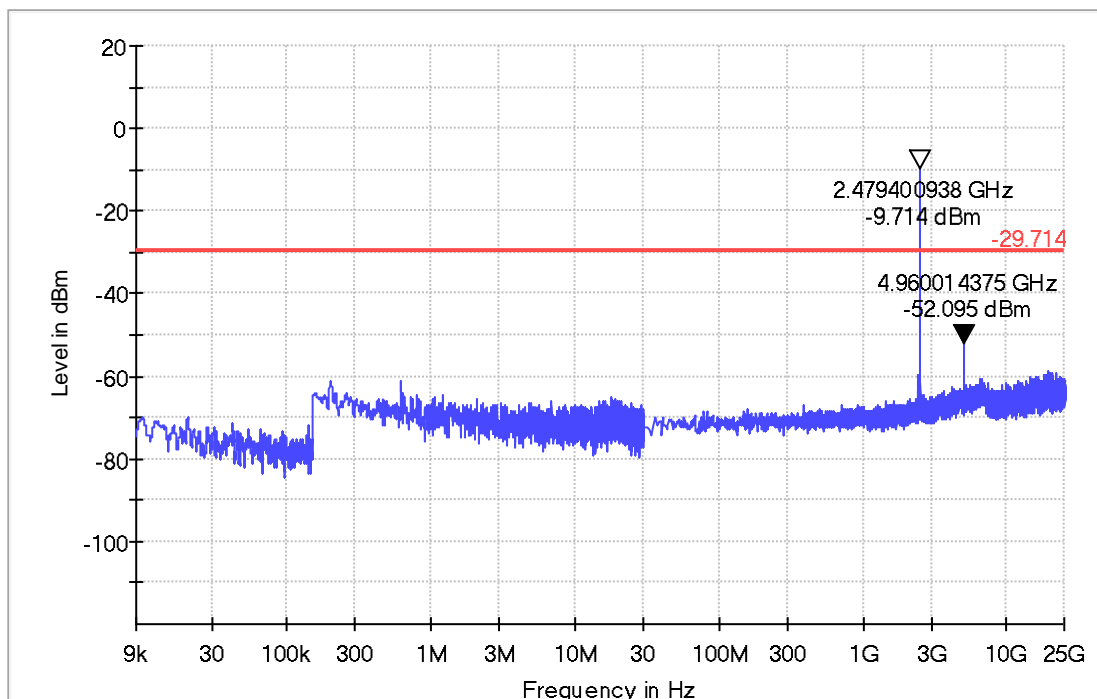


Middle Channel 2441MHz: 9 kHz to 25 GHz



## TEST REPORT

The Highest Channel 2480MHz: 9 kHz to 25 GHz



### 4.9 Out of Band Radiated Emissions

For out of band radiated emissions into Non-Restricted Frequency Bands were performed at a 3m separation distance to determine whether these emissions complied with the 20dB attenuation requirement.

- ☒ Not required, since all emissions are more than 20dB below fundamental
- ☐ See attached data sheet

### 4.10 Radiated Emissions in Restricted Bands

Test Requirement:	FCC Part 15 C section 15.247  (d) In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c).
Test Method:	ANSI C63.10: Clause 6.4, 6.5 and 6.6
Test Status:	Pre-test the EUT in continuous transmitting mode at the lowest

## TEST REPORT

(2402 MHz), middle (2441 MHz) and highest (2480 MHz) channel with different data packet. Compliance test in continuous transmitting mode with EDR mode (3DH1) as the worst case was found.

Test site:

Measurement Distance: 3m (Semi-Anechoic Chamber)

Limit:

Section 15.209

40.0 dB $\mu$ V/m between 30MHz & 88MHz;

43.5 dB $\mu$ V/m between 88MHz & 216MHz;

46.0 dB $\mu$ V/m between 216MHz & 960MHz;

54.0 dB $\mu$ V/m above 960MHz.

Detector:

For Peak and Quasi-Peak value:

RBW =

1 MHz for  $f \geq 1$  GHz,

200 Hz for 9 kHz to 150 kHz

9 kHz for 150 kHz to 30 MHz

120 kHz for 30 MHz to 1GHz

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak for  $f \geq 1$  GHz, QP for  $f < 1$  GHz

Trace = max hold

For AV value:

RBW = 1 MHz for  $f \geq 1$  GHz, 100 kHz for  $f < 1$  GHz

VBW=10 Hz

Sweep = auto

Trace = max hold

Field Strength Calculation:

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below:

$$FS = RA + AF + CF - AG + PD + AV$$

$$FS = RA + \text{Correct Factor} + AV$$

Where:

FS = Field Strength in dB $\mu$ V/m

RA = Receiver Amplitude (including preamplifier) in dB $\mu$ V

AF = Antenna Factor in dB

CF = Cable Attenuation Factor in dB

AG = Amplifier Gain in dB

PD = Pulse Desensitization in dB

AV = Average Factor in -dB

Correct Factor = AF + CF - AG + PD

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example

## TEST REPORT

of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD + AV$$

Assume a receiver reading of 62.0 dB $\mu$ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added.

The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was -10 dB. The net field strength for comparison to the appropriate emission limit is 32 dB $\mu$ V/m.

$$RA = 62.0 \text{ dB}\mu\text{V}$$

$$AF = 7.4 \text{ dB}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$PD = 0 \text{ dB}$$

$$AV = -10 \text{ dB}$$

$$\text{Correct Factor} = 7.4 + 1.6 - 29.0 + 0 = -20 \text{ dB}$$

$$FS = 62 + (-20) + (-10) = 32 \text{ dB}\mu\text{V/m}$$

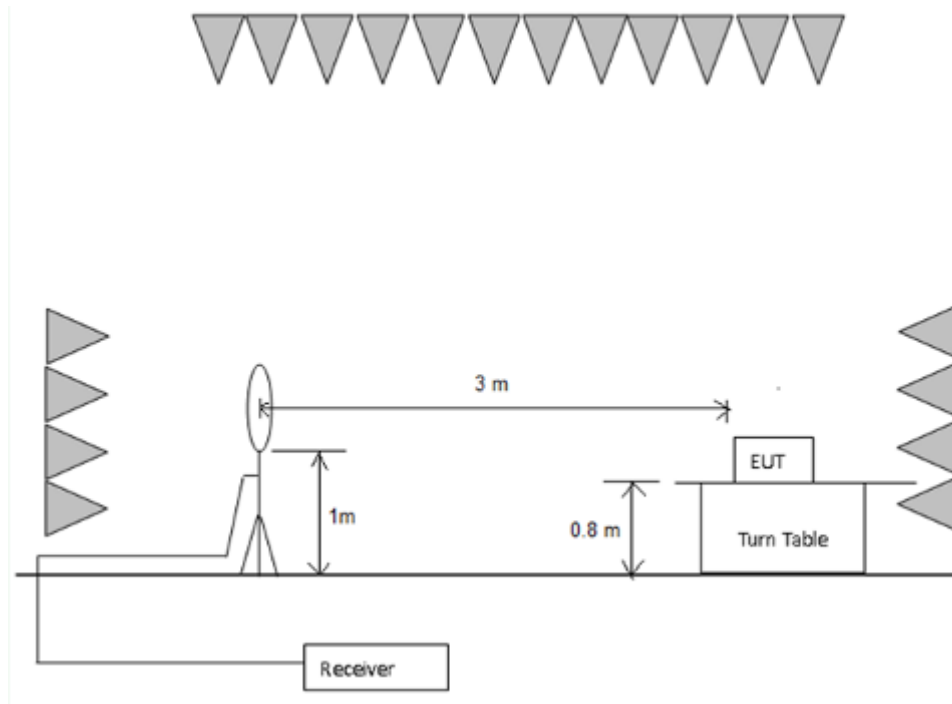
### Section 15.205 Restricted bands of operation.

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
10.495 - 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 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	
13.36 - 13.41	322 - 335.4		

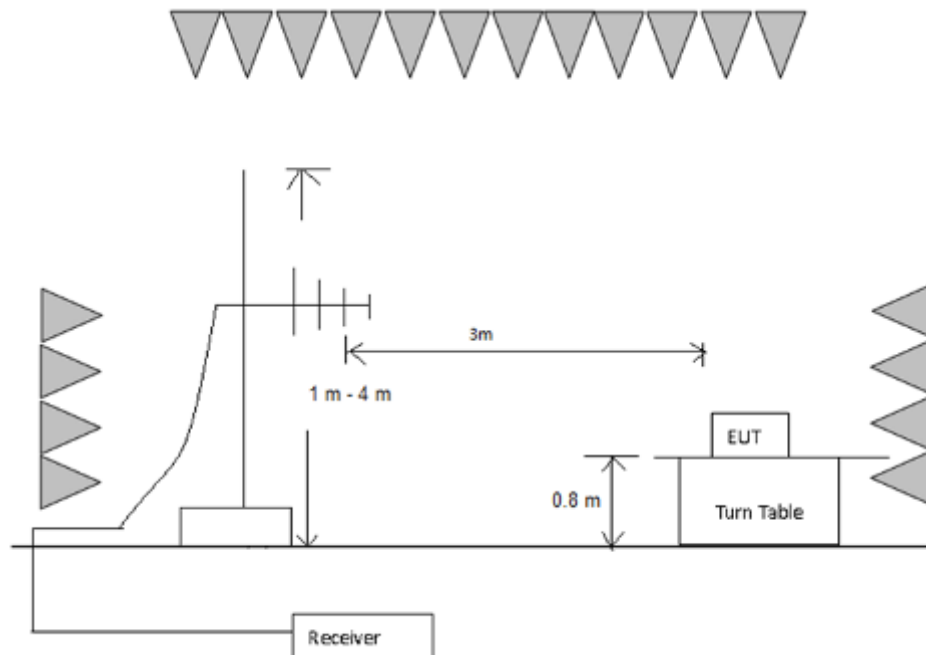
### Test Configuration:

- 1) 9 kHz to 30 MHz emissions:

## TEST REPORT

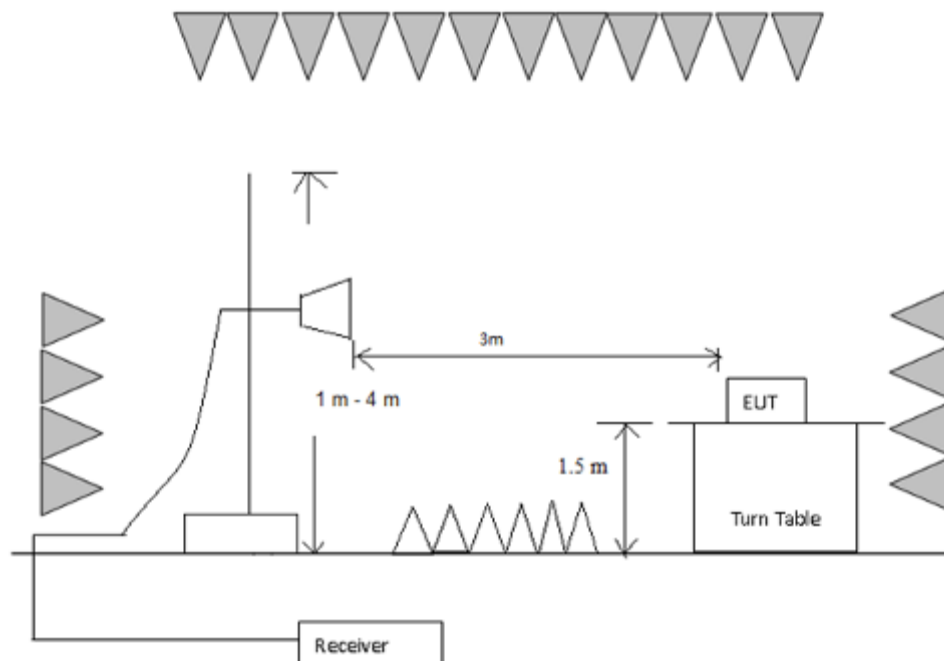


### 2) 30 MHz to 1 GHz emissions:



### 3) 1 GHz to 40 GHz emissions:

## TEST REPORT



### Test Procedure:

#### 1) 9 kHz to 30 MHz emissions:

For testing performed with the loop antenna. The lowest of the loop was positioned 1 m above the ground and positioned with its plane vertical at the special distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.

#### 2) 30 MHz to 1 GHz emissions:

For testing performed with the bi-log type antenna. The measurement is performed with the EUT rotated 360°, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

#### 3) 1 GHz to 25 GHz emissions:

Test site with RF absorbing material covering the ground plane that met the site validation criterion called out in CISPR 16-1-4:2010 was used to perform radiated emission test above 1 GHz.

For testing performed with the horn antenna. The measurement is performed with the EUT rotated 360°, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

4) The receiver was scanned from 9 kHz to 25 GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.

## TEST REPORT

### Used Test Equipment List:

3m Semi-Anechoic Chamber, EMI Test Receiver (9 kHz~7 GHz), Signal and Spectrum Analyzer (10 Hz~40 GHz), Loop antenna (9 kHz-30 MHz). TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX), Double-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX) and High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX). Refer to Clause 5 Test Equipment List for details.

### EDR mode (3DH1)

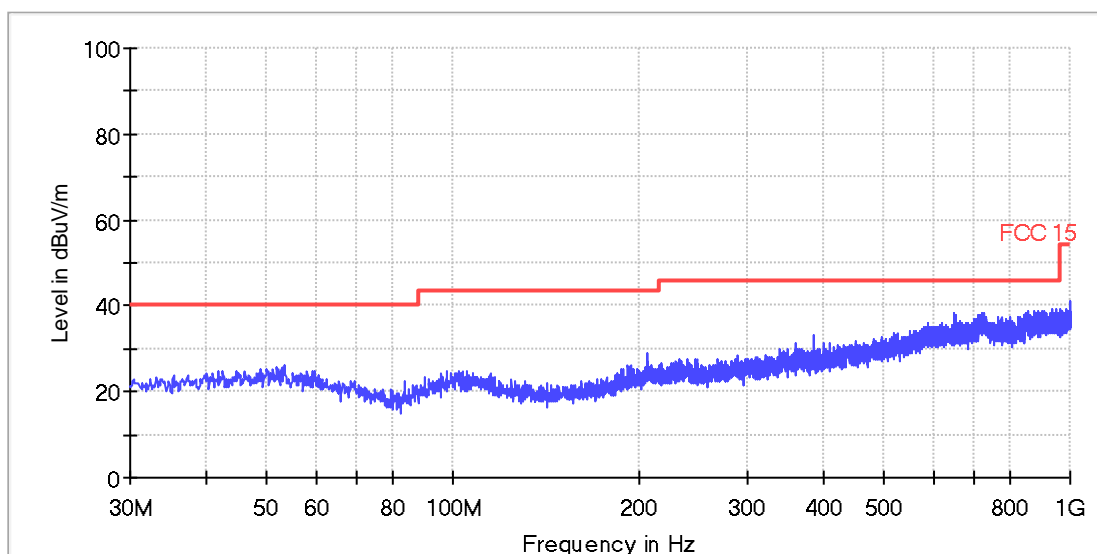
Test at Lowest Channel (2.402 GHz) in transmitting status

9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

### 30 MHz~1 GHz Spurious Emissions. Quasi-Peak Measurement

Vertical:

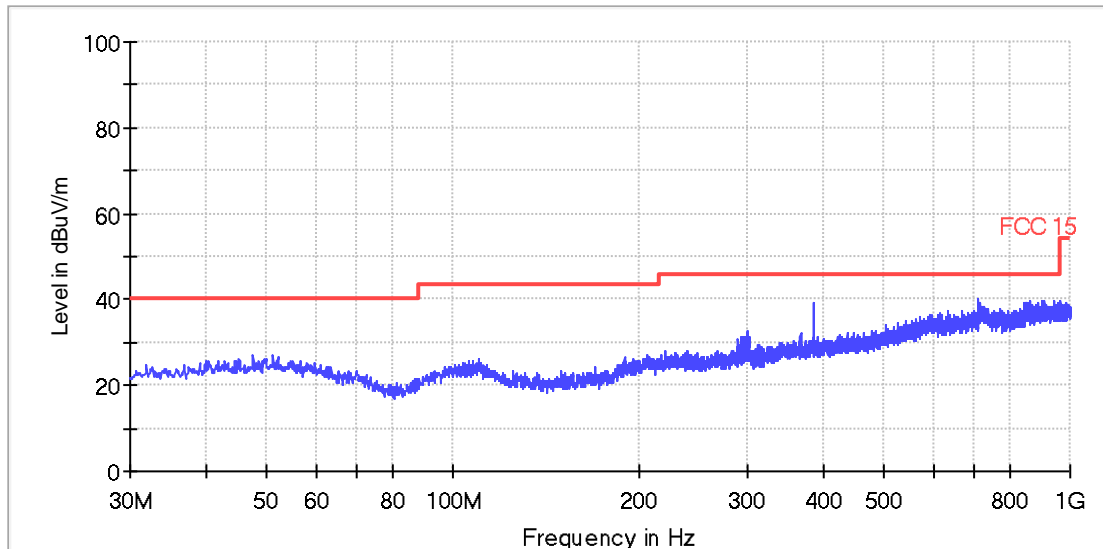


All emission levels are more than 6 dB below the limit.

Horizontal:



## TEST REPORT



All emission levels are more than 6 dB below the limit.

### 1~25 GHz Radiated Emissions. Peak & Average Measurement

#### Peak Measurement:

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
4804.0	53.1	-1.1	52.0	74	H
9608.5	45.3	5.1	50.4	74	H
4804.0	51.8	-1.1	50.7	74	V
9608.5	49.6	5.1	54.7	74	V

#### Remark:

When Peak emission level was below AV limit, the AV emission level did not be recorded.

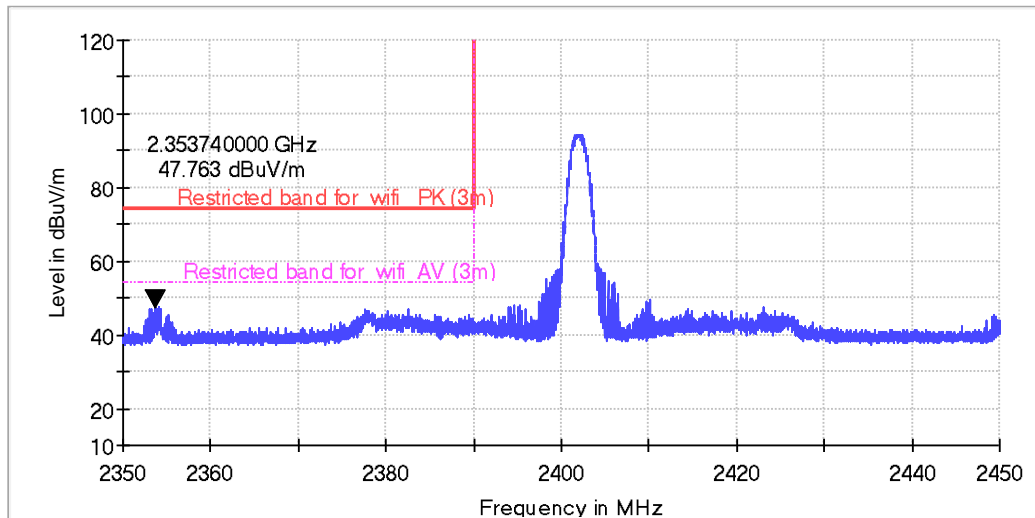
#### Average Measurement:

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
9608.5	39.3	5.1	44.4	54	H

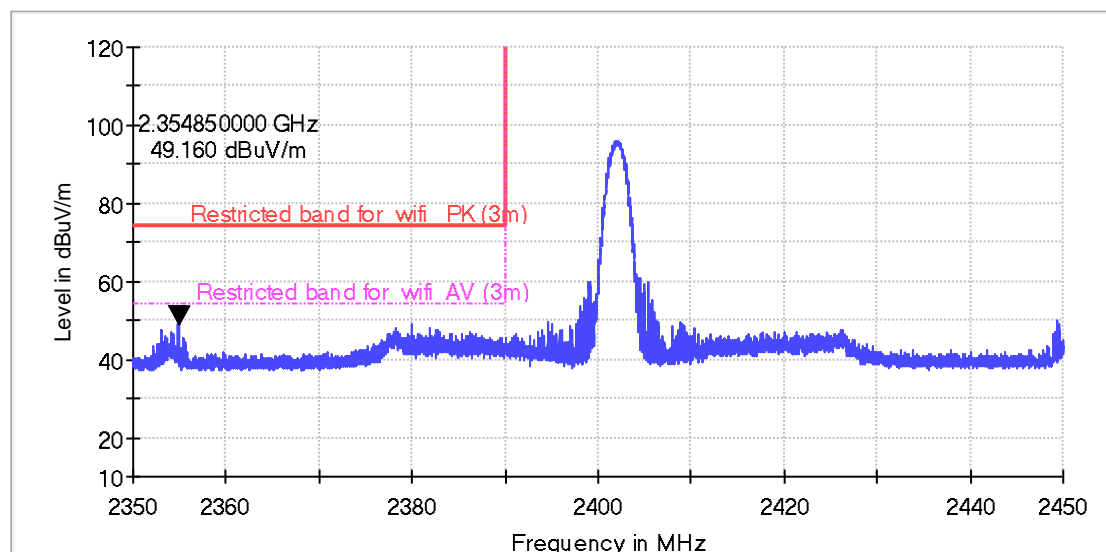
### Band edge Measurement

#### Horizontal

## TEST REPORT



Vertical



Frequency (MHz)	PK Reading Level (dBμV)	Correction factors (dB/m)	PK Emission Level (dBμV/m)	PK Limit (dBμV/m)	Antenna polarization
2353.7	56.1	-8.3	47.8	74	H
2354.9	57.5	-8.3	49.2	74	V

Remark:

When Peak emission level was below AV limit, the AV emission level did not be recorded.

Test at Middle Channel (2.441 GHz) in transmitting status

## TEST REPORT

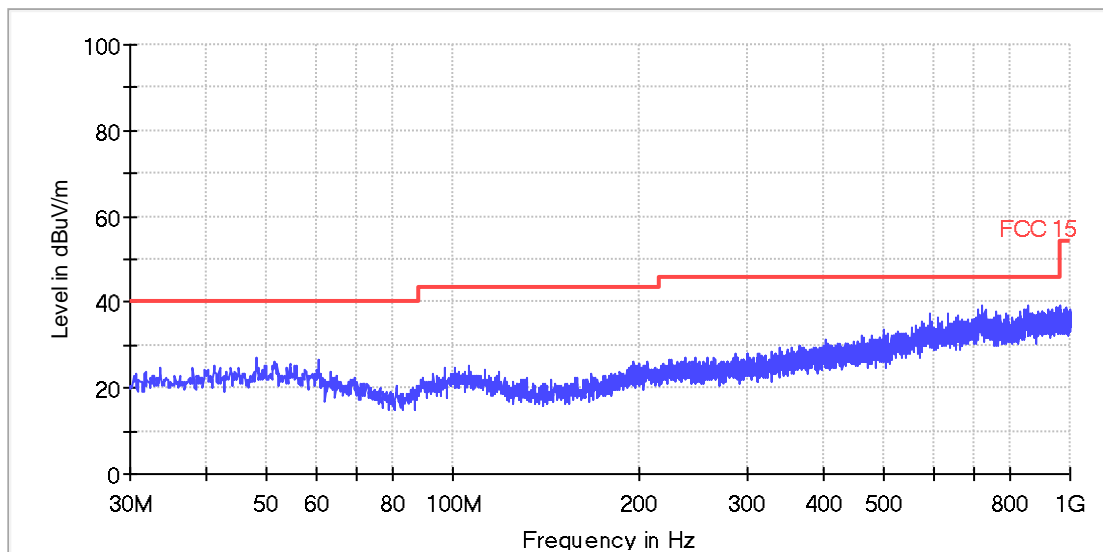
### 9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

### 30 MHz~1 GHz Spurious Emissions. Quasi-Peak Measurement

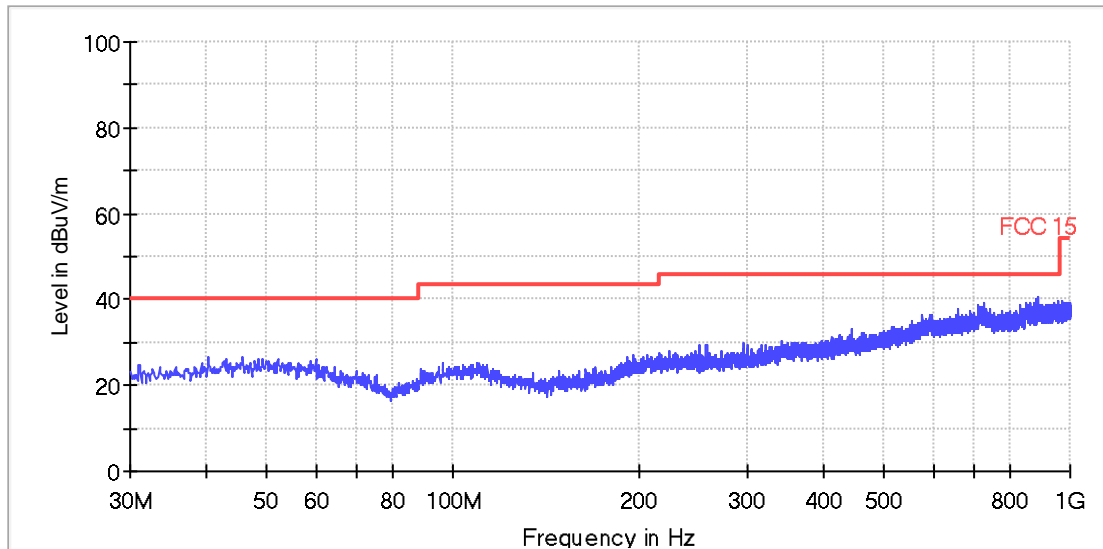
Vertical:

All emission levels are more than 6 dB below the limit.



Horizontal:

## TEST REPORT



All emission levels are more than 6 dB below the limit.

### 1~25 GHz Radiated Emissions. Peak & Average Measurement

#### Peak Measurement:

Frequency (MHz)	Reading Level (dBμV)	Correct Factor	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarization
4882.0	54.1	-1.0	53.1	74	H
9764.5	48.3	5.7	54.0	74	H
4882.0	54.0	-1.0	53.0	74	V
9763.0	45.4	5.7	51.1	74	V

#### Remark:

When Peak emission level was below AV limit, the AV emission level did not be recorded.

#### Average Measurement:

Frequency (MHz)	Reading Level (dBμV)	Correct Factor	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarization
9764.5	36.8	5.7	42.5	54	H

Test at Highest Channel (2.480 GHz) in transmitting status

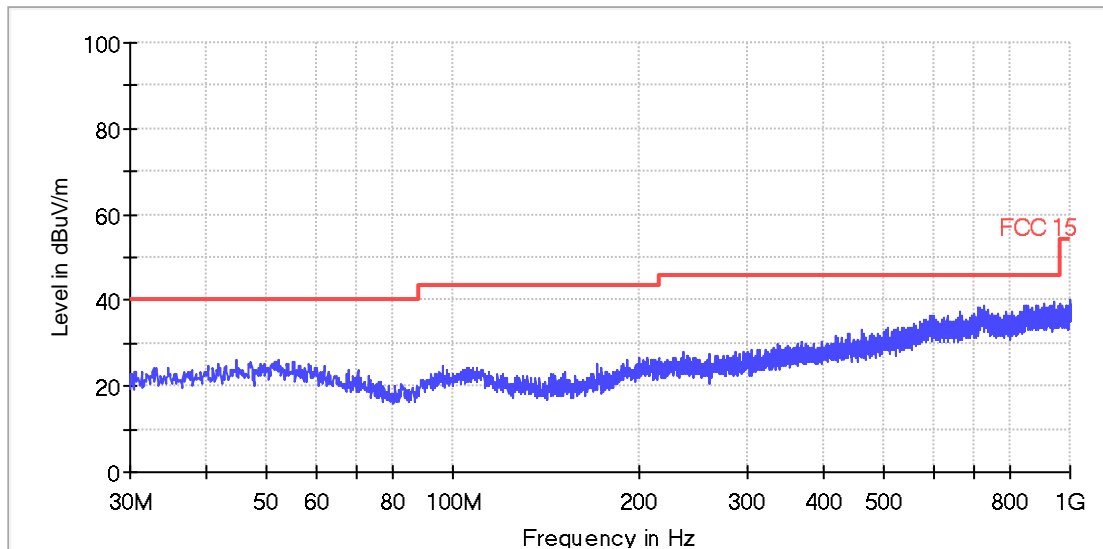
9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

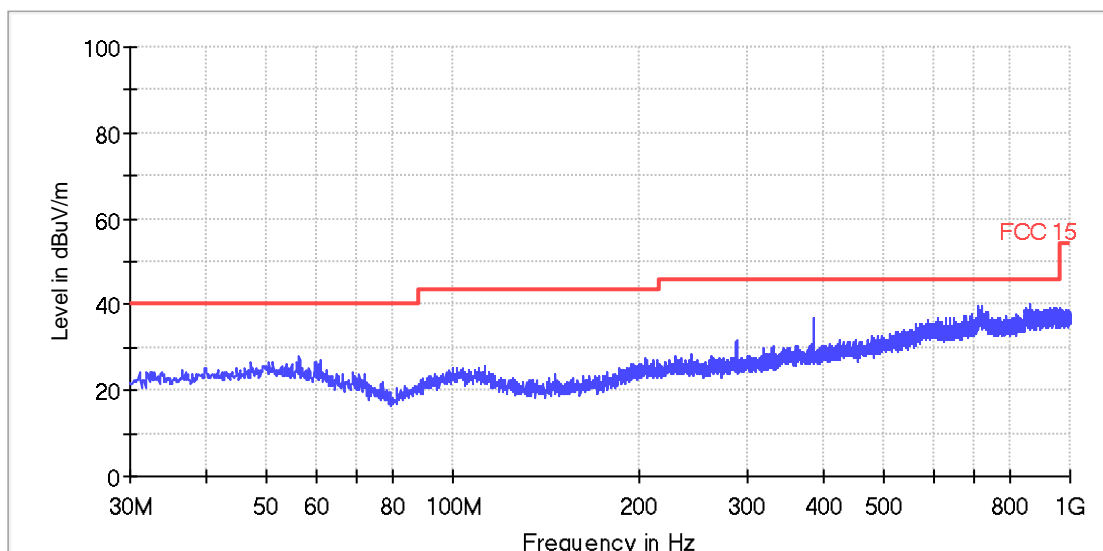
## TEST REPORT

### 30 MHz~1 GHz Spurious Emissions. Quasi-Peak Measurement

Vertical:



Horizontal:



### 1~25 GHz Radiated Emissions. Peak & Average Measurement

Peak Measurement:

## TEST REPORT

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
4960.0	54.4	-0.9	53.5	74	H
9920.5	48.8	6.3	55.1	74	H
4960.0	53.7	-0.9	52.8	74	V
9920.5	50.2	6.3	56.5	74	V

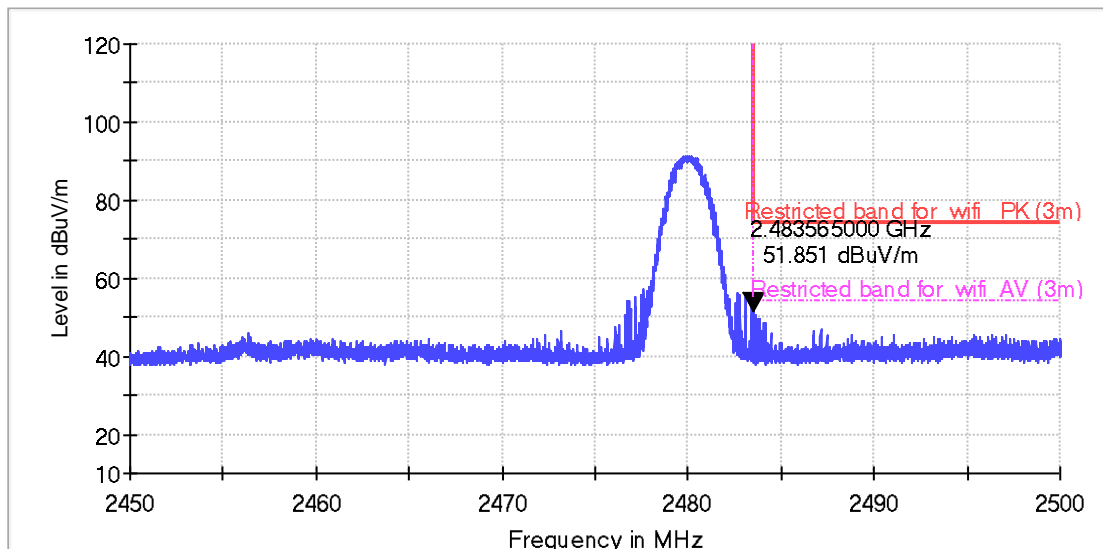
### Average Measurement:

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
9920.5	38.5	6.3	44.8	54	H
9920.5	39.9	6.3	46.2	54	V

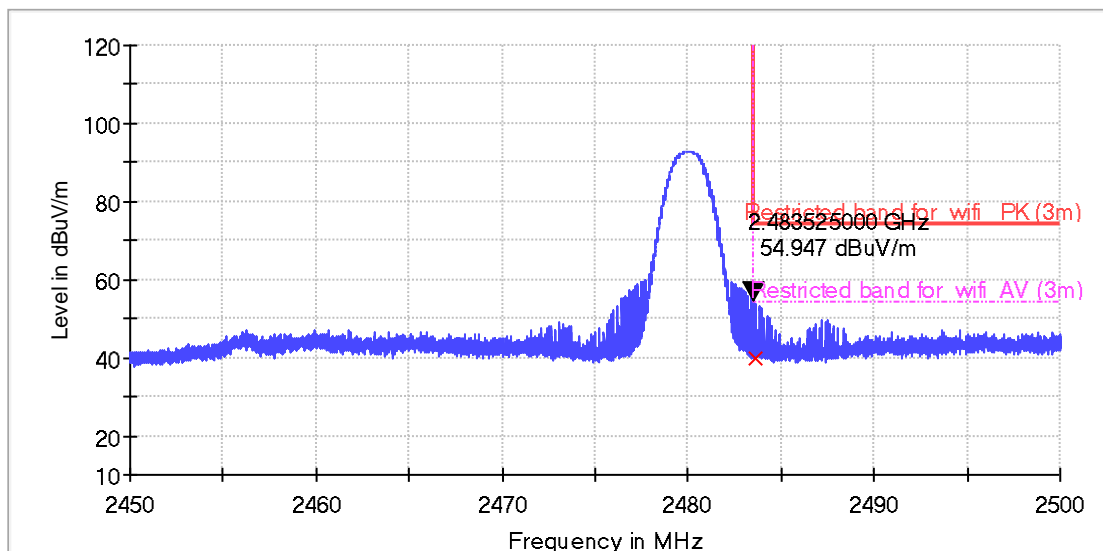
### Band edge Measurement

## TEST REPORT

Horizontal



Vertical



## TEST REPORT

### PK measurement

Frequency (MHz)	PK Reading Level (dBμV)	Correction factors (dB/m)	PK Emission Level (dBμV/m)	PK Limit (dBμV/m)	Antenna polarization
2483.6	59.7	-7.8	51.9	74	H
2483.5	62.7	-7.8	54.9	74	V

### AV measurement

Frequency (MHz)	Reading Level (dBμV)	Correction factors (dB/m)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarization
2483.5	47.8	-7.8	40.0	54	V

#### Remark:

When Peak emission level was below AV limit, the AV emission level did not be recorded.

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier.

The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Loss – Preamplifier Factor.

As shown in Section, for frequencies above 1000 MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

No any other emissions level which are attenuated less than 20dB below the limit.

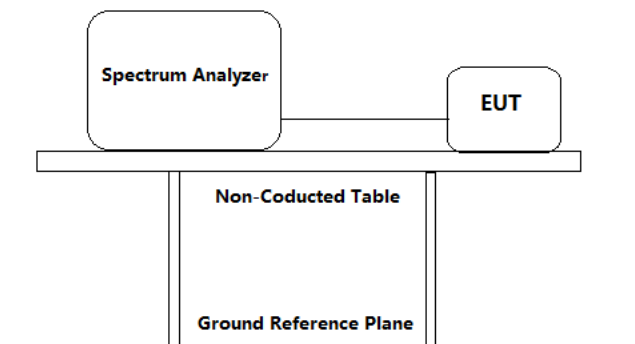
### 4.11 Band Edges Requirement

Test Requirement:	FCC Part 15 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.
Frequency Band:	2400 MHz to 2483.5 MHz
Test Method:	ANSI C63.10: Clause 7.8.6 & 6.10
Test Status:	Pre-test the EUT in continuous transmitting mode at the lowest (2402 MHz), and highest (2480 MHz) channel and hopping mode with different data packet. Compliance test in continuous transmitting



## TEST REPORT

mode with EDR mode (3DH1) as the worst case was found.  
Test Configuration: For Band Edges Emission in Radiated mode, Please refer to clause 4.7



Test Procedure: For Band Edges Emission in Radiated mode, Please refer to clause 4.7

1. Removed the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer or power meter.
2. Set RBW of spectrum analyzer to 100 kHz and VBW of spectrum analyzer to 300 kHz with suitable frequency span including 100 kHz bandwidth from band edge.
3. Repeated until all the test status was investigated.
4. Reported the worst case.

### Used Test Equipment List:

3m Semi-Anechoic Chamber, EMI Test Receiver (9 kHz~7 GHz), Signal and Spectrum Analyzer (10 Hz~40 GHz), Loop antenna (9 kHz-30 MHz). TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX), Bouble-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX) and High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX). Refer to Clause 5 Test Equipment List for details.

### Test result with plots as follows:

#### For conducted mode:

The band edges was measured and recorded Result:

The Lower Edges attenuated more than 20dB.

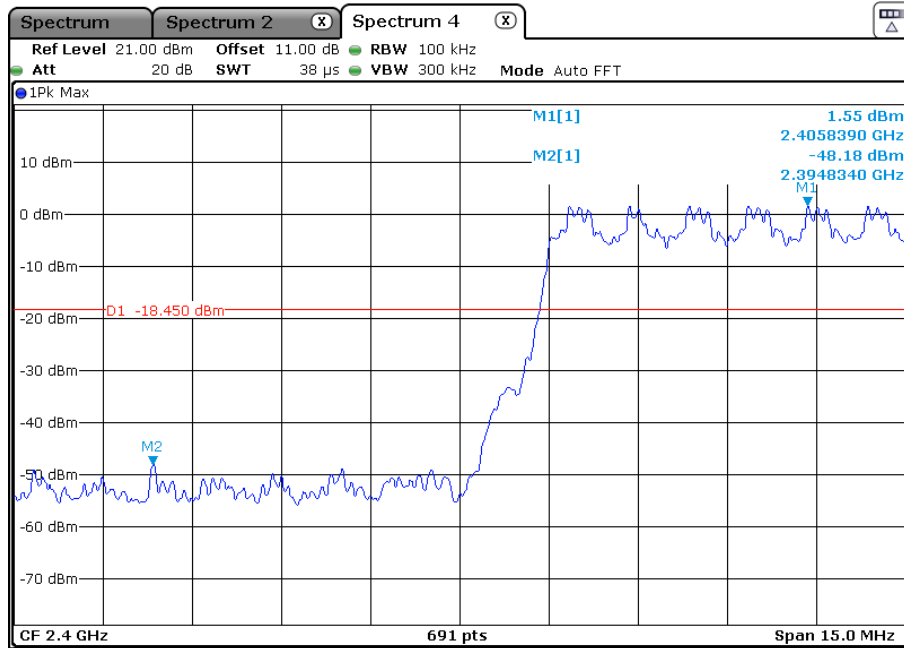
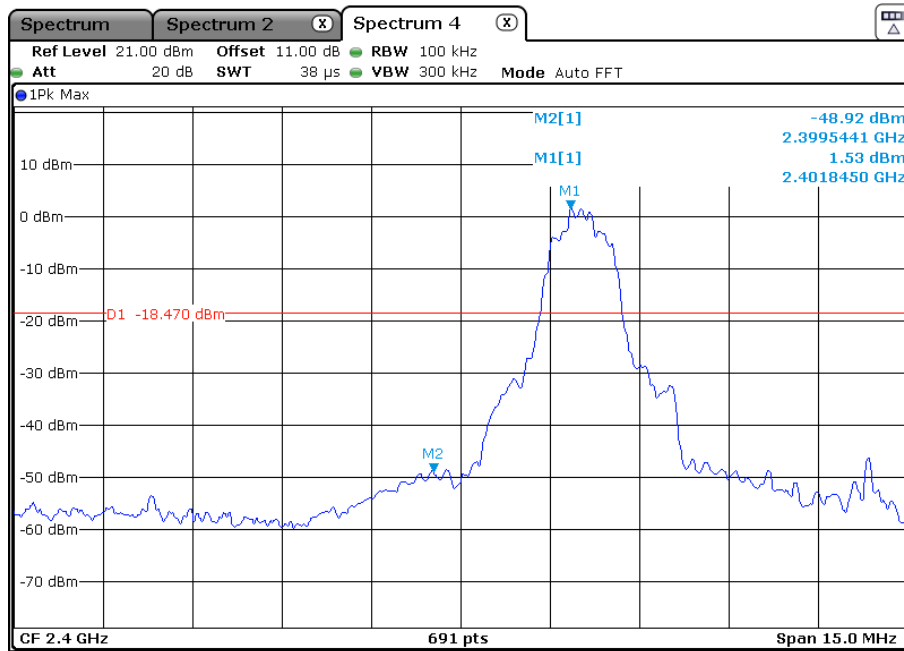
The Upper Edges attenuated more than 20dB.

Result plot as follows:

EDR mode (3DH1):

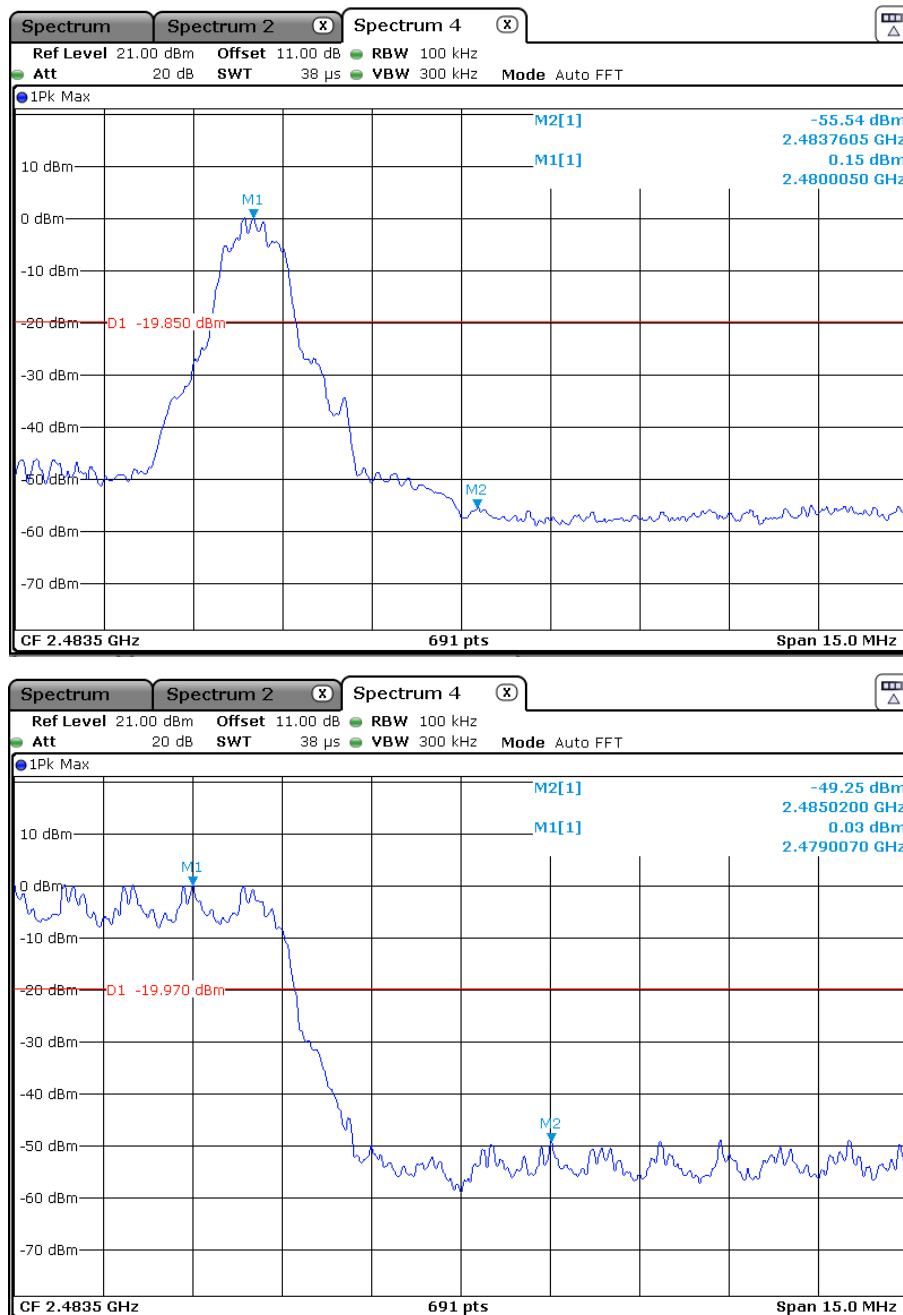
Lowest channel: 2.402 GHz

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Highest Channel: 2.480 GHz:

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### For radiated mode:

Please refer Clause 4.7 Radiated Emissions in Restricted Bands of this test report for more details. The resultant field strength in band edges meet the general radiated emission limit in section 15.209, which does not exceed 74 dBμV/m (Peak Limit) and 54dBμV/m (Average Limit).

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### 4.12 Conducted Emission Test

Not applicable

Remark: Massaging Realtouch Eye Mask Hot and Cold with Speaker will not transmit when it is charged.

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### 5.0 Test Equipment List

#### Radiated Emission/Radio

Equipment No.	Equipment	Model	Manufacturer	Cal. Due date (YYYY-MM-DD)	Calibration Interval
EM030-04	3m Semi-Anechoic Chamber	9×6×6 m <sup>3</sup>	ETS•LINDGREN	2024-04-10	1Y
EM031-02	EMI Test Receiver (9 kHz~7 GHz)	R&S ESR7	R&S	2023-11-15	1Y
EM031-03	Signal and Spectrum Analyzer (10 Hz~40 GHz)	R&S FSV40	R&S	2023-11-15	1Y
EM011-04	Loop antenna (9 kHz-30 MHz)	HFH2-Z2	R&S	2023-06-27	1Y
EM061-03	TRILOG Super Broadband test Antenna (30 MHz-1.5 GHz) (TX)	VULB 9161	SCHWARZBECK	2023-06-26	1Y
EM033-01	TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX)	VULB 9163	SCHWARZBECK	2023-12-04	1Y
EM033-02	Bouble-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX)	R&S HF907	R&S	2023-06-26	1Y
EM033-03	High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX)	R&S SCU-26	R&S	2023-04-16	1Y
EM033-04	High Frequency Antenna & preamplifier (26 GHz-40 GHz)	R&S SCU-40	R&S	2023-04-16	1Y
EM031-02-01	Coaxial cable(9 kHz-1 GHz)	N/A	R&S	2024-04-10	1Y
EM033-02-02	Coaxial cable(1 GHz-18 GHz)	N/A	R&S	2024-04-10	1Y
EM033-04-02	Coaxial cable(18 GHz~40 GHz)	N/A	R&S	2023-04-16	1Y
EM031-01	Signal Generator (9 kHz~6 GHz)	SMB100A	R&S	2023-07-17	1Y
EM040-01	Band Reject/Notch Filter	WRHFV	Wainwright	N/A	1Y
EM040-02	Band Reject/Notch Filter	WRCGV	Wainwright	N/A	1Y
EM040-03	Band Reject/Notch Filter	WRCGV	Wainwright	N/A	1Y
EM022-03	2.45 GHz Filter	BRM50702	Micro-Tronics	2023-05-06	1Y
SA016-29	Climatic Test Chamber	MHU-80L	JIANQIAO	2024-01-03	1Y
SA012-74	Digital Multimeter	FLUKE175	FLUKE	2023-10-07	1Y
EM010-01	Regulated DC Power supply	PAB-3003A	GUANHUA	N/A	1Y
SA040-22	Regulated DC Power supply	IT6721	ITECH	2023-09-04	1Y
EM046-05	Power meter	NPR6A	R&S	2023-04-20	1Y
EM046-06	Power meter	NPR6A	R&S	2023-04-20	1Y
EM045-01-01	EMC32 software (RE/RS)	V10.01.00	R&S	N/A	N/A
EM045-01-09	EMC32 software (328/893)	V9.26.01	R&S	N/A	N/A

\*\*\*\*\*End of the test report\*\*\*\*\*