



# FCC RF Test Report

APPLICANT : Zhejiang Lingzhu Technology Co., Ltd.  
EQUIPMENT : Control Panel MAX  
MODEL NAME : TPA10-M2U,TPA10-M2X  
FCC ID : 2BEWX-TPA10  
STANDARD : FCC Part 15 Subpart C §15.247  
CLASSIFICATION : (DSS) Spread Spectrum Transmitter  
TEST DATE(S) : May 22, 2023 ~ Jun. 27, 2023

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



**Sporton International Inc. (Kunshan)**

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China



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## REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR350402-01A	Rev. 01	Initial issue of report	Jul. 29, 2024

## SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(1)	Number of Channels	$\geq 15\text{Chs}$	Pass	-
3.2	15.247(a)(1)	Hopping Channel Separation	$\geq 2/3$ of 20dB BW	Pass	-
3.3	15.247(a)(1)	Dwell Time of Each Channel	$\leq 0.4\text{sec}$ in 31.6sec period	Pass	-
3.4	15.247(a)(1)	20dB Bandwidth	-	Report only	-
3.4	-	99% Bandwidth	-	Report only	-
3.5	15.247(b)(1)	Peak Output Power	$\leq 125\text{ mW}$	Pass	-
3.6	15.247(d)	Conducted Band Edges	$\leq 20\text{dBc}$	Pass	-
3.7	15.247(d)	Conducted Spurious Emission	$\leq 20\text{dBc}$	Pass	-
3.8	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 2.86 dB at 2483.500 MHz
3.9	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 7.09 dB at 0.291 MHz
3.10	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Note: This is a change FCC ID report. Since no changes have been made to this device, therefore, all test cases were leveraged from original report (FCC ID: 2A789-TPA10, report number FR350402A)

### Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

### Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

# 1 General Description

## 1.1 Applicant

Zhejiang Lingzhu Technology Co., Ltd.

Room 302, No 1 Building Huace Center, Xihu District, Hangzhou City, Zhejiang Province, China

## 1.2 Manufacturer

Zhejiang Lingzhu Technology Co., Ltd.

Room 302, No 1 Building Huace Center, Xihu District, Hangzhou City, Zhejiang Province, China

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Control Panel MAX
Model Name	TPA10-M2U, TPA10-M2X
FCC ID	2BEWX-TPA10
SN	RSE: FWAED13ZJ0007D Conducted: ZNVEC28KL00004 Conduction: ZNVEC28KL00017
HW Version	V1.0
SW Version	V2.X.X

### Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The two model name are only for different markets purpose, no other difference.

## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz
Number of Channels	79
Carrier Frequency of Each Channel	2402+n*1 MHz; n=0~78
Maximum Output Power to Antenna	Bluetooth BR(1Mbps) : 6.19 dBm (0.0042 W) Bluetooth EDR (2Mbps) : 7.48 dBm (0.0056 W) Bluetooth EDR (3Mbps) : 8.01 dBm (0.0063 W)
99% Occupied Bandwidth	Bluetooth BR(1Mbps) : 0.854 MHz Bluetooth EDR (2Mbps) : 1.184 MHz Bluetooth EDR (3Mbps) : 1.140 MHz
Antenna Type / Gain	IPEX Antenna with gain 3.91 dBi
Type of Modulation	Bluetooth BR (1Mbps) : GFSK Bluetooth EDR (2Mbps) : $\pi/4$ -DQPSK Bluetooth EDR (3Mbps) : 8-DPSK



## 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

<b>Test Firm</b>	Sporton International Inc. (Kunshan)		
<b>Test Site Location</b>	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	CO01-KS 03CH08-KS TH01-KS	CN1257	314309

## 1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH08-KS	AUDIX	E3	6.2009-8-24al
2.	CO01-KS	AUDIX	E3	6.2009-8-24

## 1.8 Applicable Standards

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

- 47 CFR Part 15 Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ANSI C63.10-2013

### Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 2 Test Configuration of Equipment Under Test

### 2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 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
	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 Test Mode

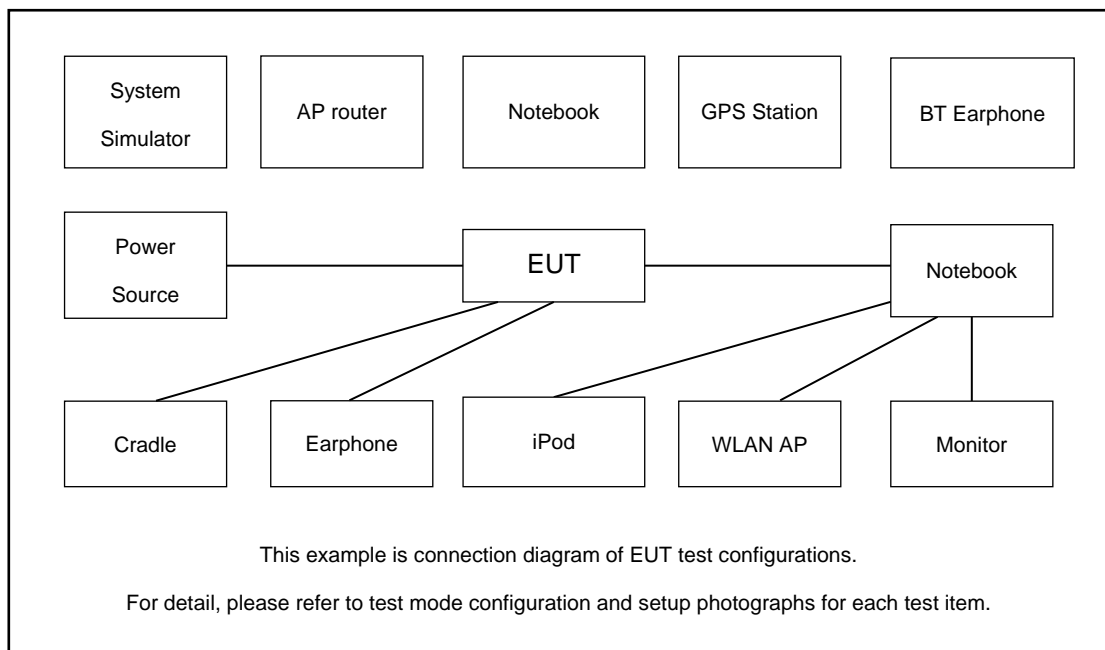
- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report, and the worst mode of radiated spurious emissions is Bluetooth 3Mbps mode, and recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Summary table of Test Cases			
Test Item	Data Rate / Modulation		
	Bluetooth BR 1Mbps GFSK	Bluetooth EDR 2Mbps $\pi/4$ -DQPSK	Bluetooth EDR 3Mbps 8-DPSK
Conducted Test Cases	Mode 1: CH00_2402 MHz	Mode 4: CH00_2402 MHz	Mode 7: CH00_2402 MHz
	Mode 2: CH39_2441 MHz	Mode 5: CH39_2441 MHz	Mode 8: CH39_2441 MHz
	Mode 3: CH78_2480 MHz	Mode 6: CH78_2480 MHz	Mode 9: CH78_2480 MHz
Radiated Test Cases	Bluetooth EDR 3Mbps 8-DPSK		
	Mode 1: CH00_2402 MHz		
	Mode 2: CH39_2441 MHz		
	Mode 3: CH78_2480 MHz		
Co-location	Bluetooth BR_GFSK CH00 + Bluetooth-LE 1Mbps CH00 + Zigbee CH26		
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN Link(2.4G) + AC 120V/60Hz + Notebook(RJ45 Link) + Lamp bulb(L1) + Lamp bulb(L2)		
Remark: For radiated test cases, the worst mode data rate 3Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.			



## 2.3 Connection Diagram of Test System



## 2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded, 1.8m
2.	Notebook	Lenovo	V130-15IKB005	N/A	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
3.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
4.	Lamp bulb	NA	N/A	N/A	N/A	N/A
5.	Lamp bulb	NA	N/A	N/A	N/A	N/A

## 2.5 EUT Operation Test Setup

For Bluetooth function, the engineering test program was provided and enabled to make EUT connect with Bluetooth base station to continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 5.60 dB

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} \\ &= 5.60(\text{dB})\end{aligned}$$

### 3 Test Result

#### 3.1 Number of Channel Measurement

##### 3.1.1 Limits of Number of Hopping Frequency

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

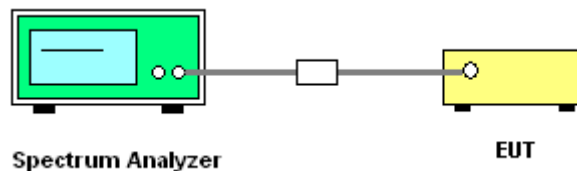
##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3 Test Procedure

1. The testing follows ANSI C63.10-2013 clause 7.8.3.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings: Span = the frequency band of operation; RBW = 300kHz; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold.
6. The number of hopping frequency used is defined as the number of total channel.
7. Record the measurement data derived from spectrum analyzer.

##### 3.1.4 Test Setup

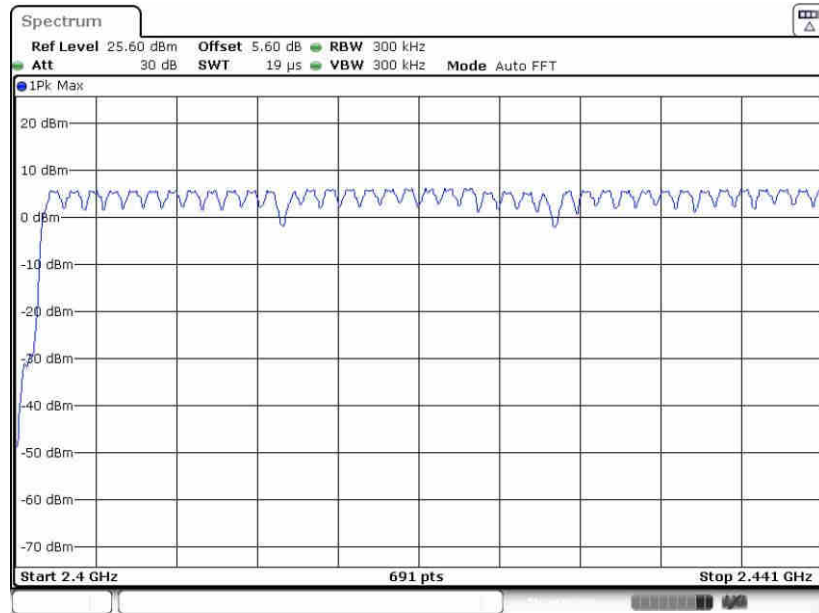




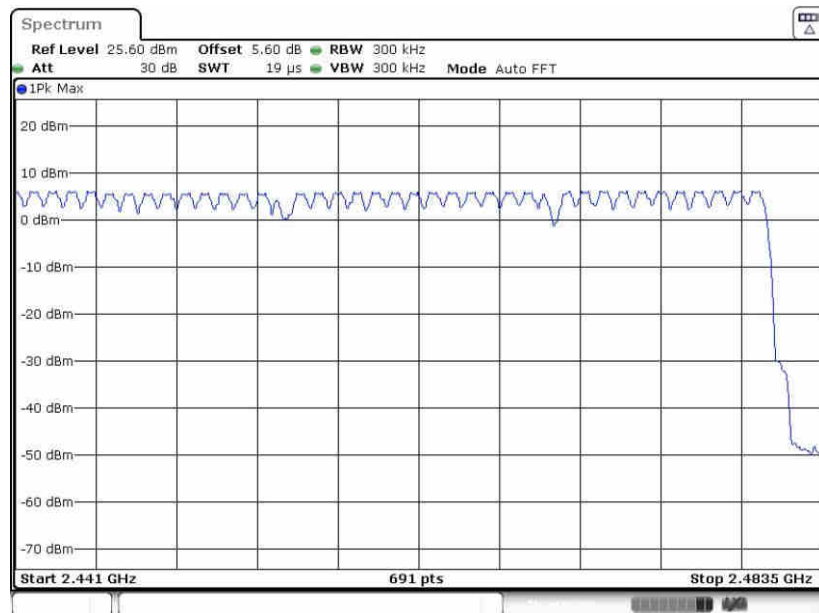
### 3.1.5 Test Result of Number of Hopping Frequency

Please refer to Appendix A.

Number of Hopping Channel Plot on Channel 00 - 78



Date: 30.MAY.2023 08:20:01



Date: 30.MAY.2023 08:22:19

## 3.2 Hopping Channel Separation Measurement

### 3.2.1 Limit of Hopping Channel Separation

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.

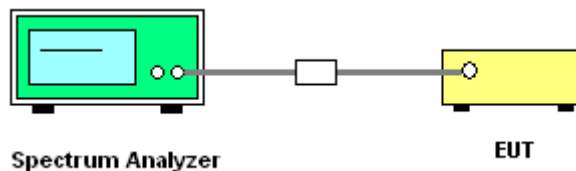
### 3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.2.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.2.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings:  
Span = wide enough to capture the peaks of two adjacent channels;  
RBW = 300kHz; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold.
6. Measure and record the results in the test report.

### 3.2.4 Test Setup



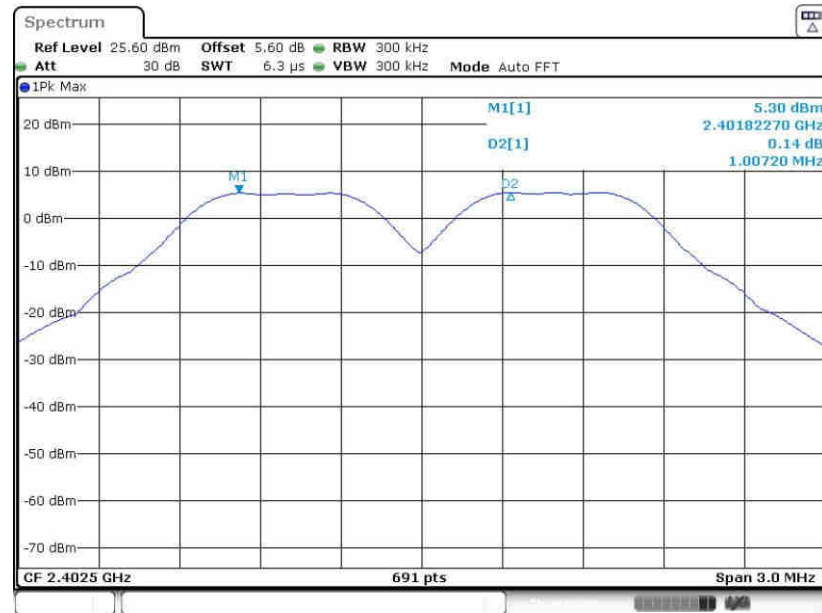


### 3.2.5 Test Result of Hopping Channel Separation

Please refer to Appendix A.

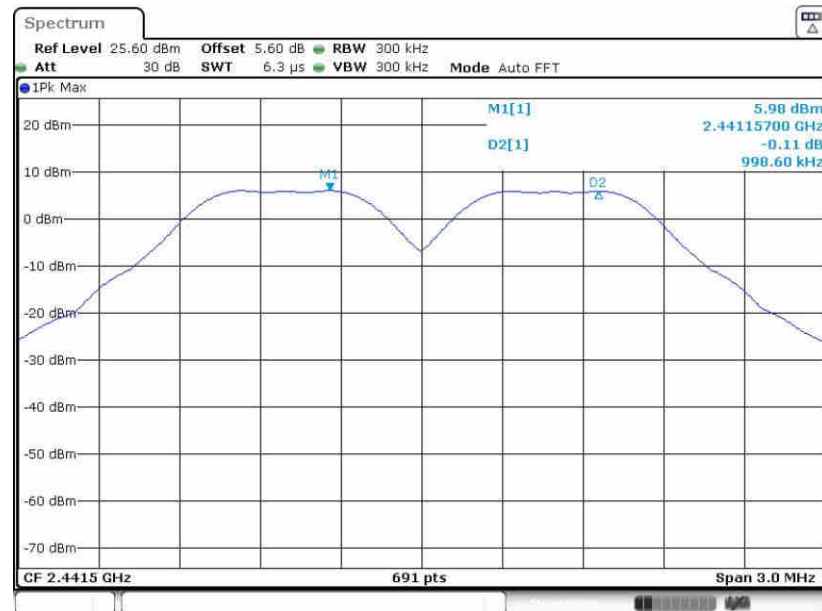
<1Mbps>

Channel Separation Plot on Channel 00 - 01



Date: 30.MAY.2023 06:26:06

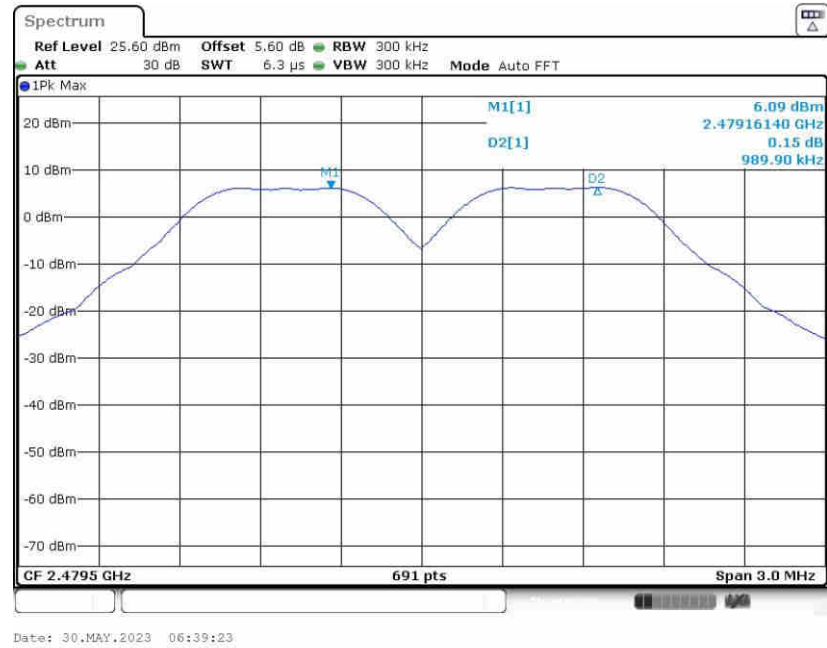
Channel Separation Plot on Channel 39 - 40



Date: 30.MAY.2023 06:35:34

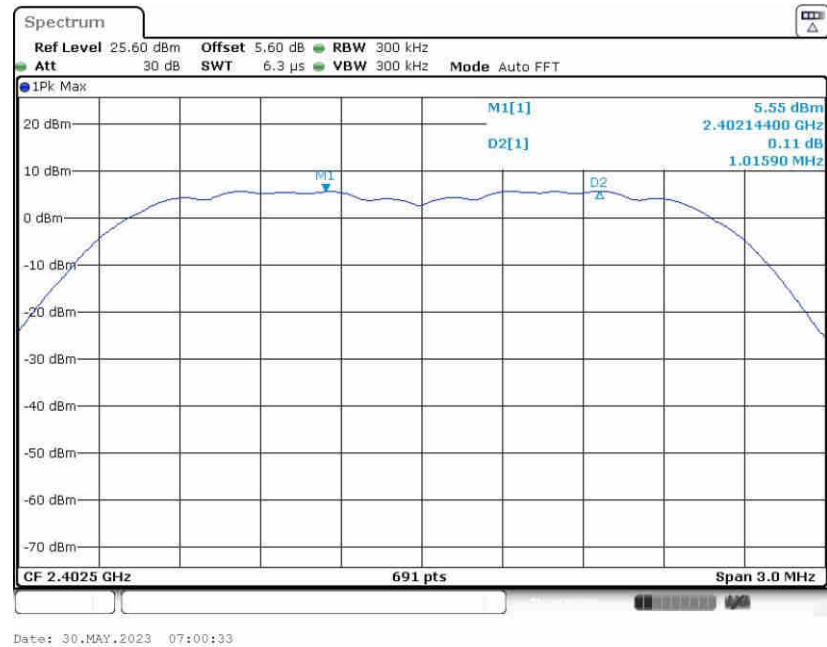


### Channel Separation Plot on Channel 77 - 78



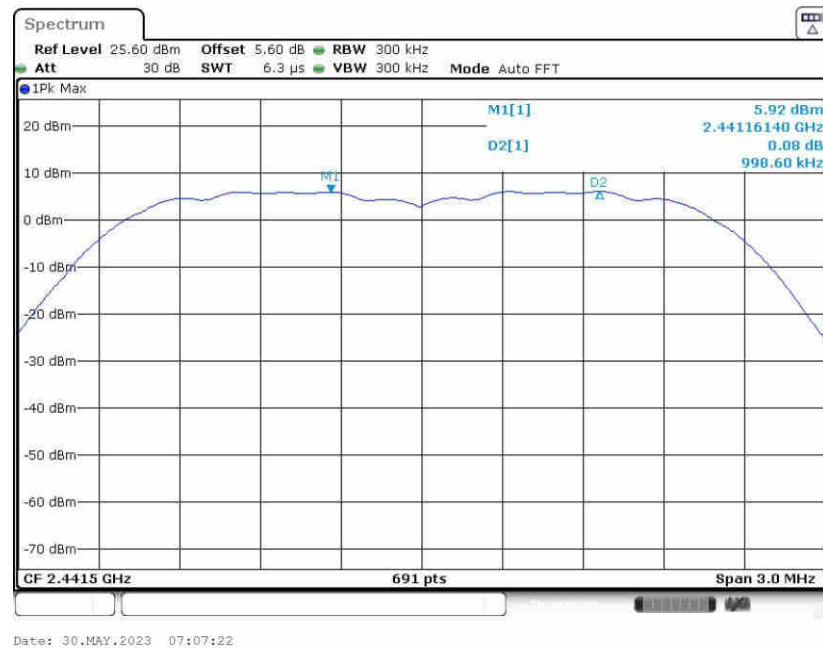
### <2Mbps>

### Channel Separation Plot on Channel 00 - 01

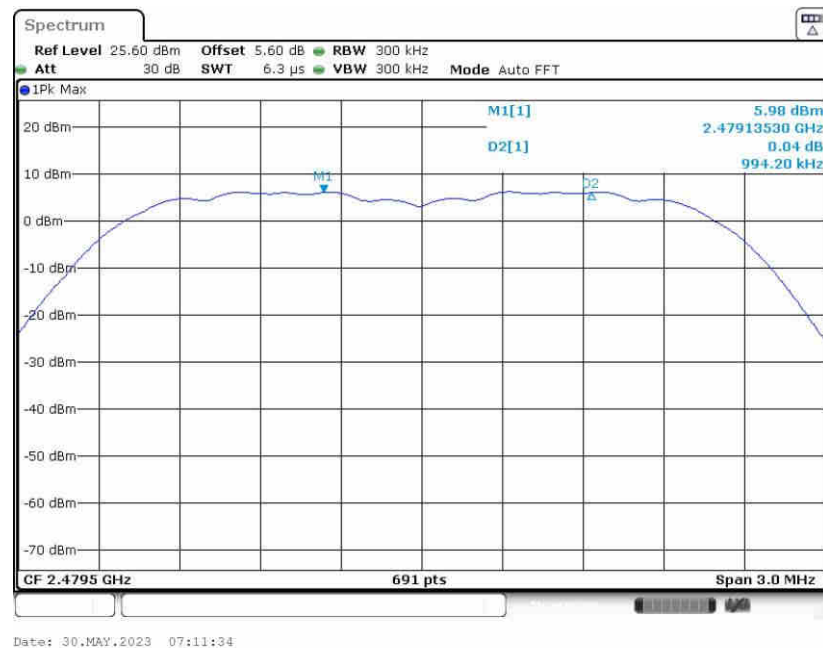




### Channel Separation Plot on Channel 39 - 40



### Channel Separation Plot on Channel 77 - 78

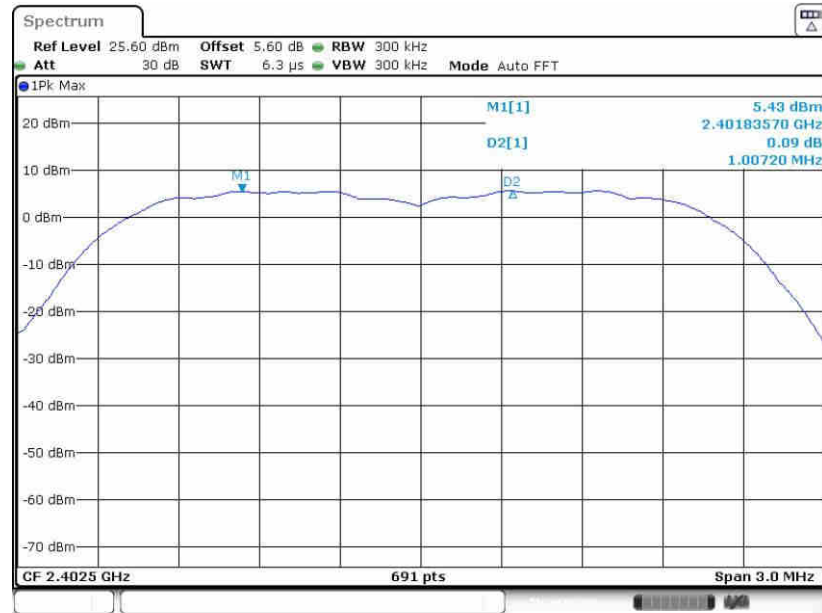




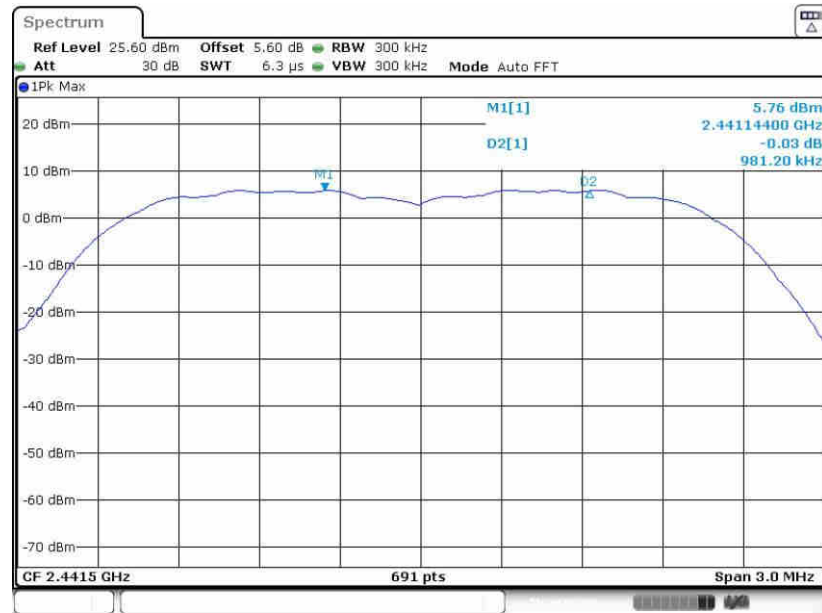


<3Mbps>

Channel Separation Plot on Channel 00 - 01

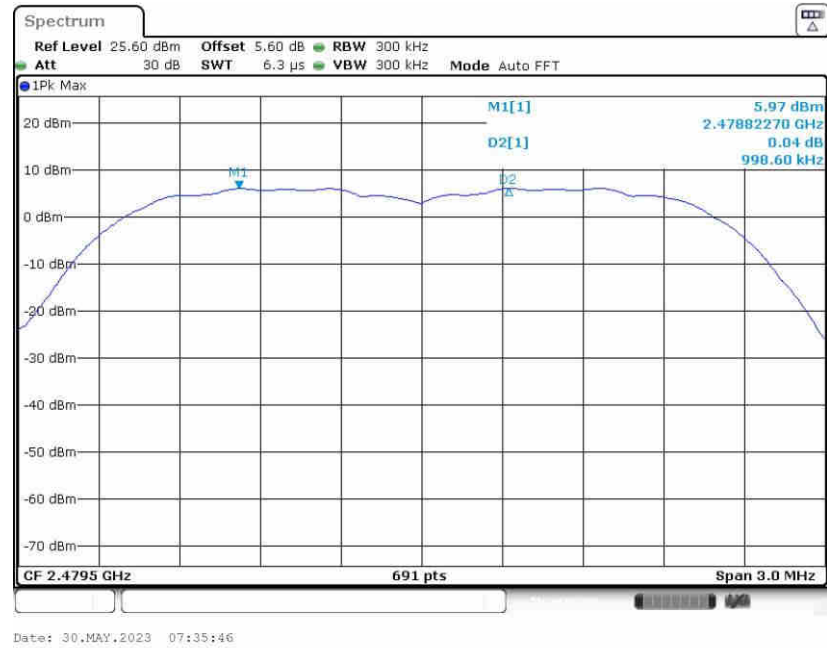


Channel Separation Plot on Channel 39 - 40





Channel Separation Plot on Channel 77 - 78



### 3.3 Dwell Time Measurement

#### 3.3.1 Limit of Dwell Time

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.

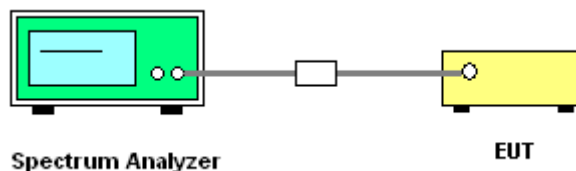
#### 3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.3.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.4.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW  $\geq$  RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.
6. Measure and record the results in the test report.

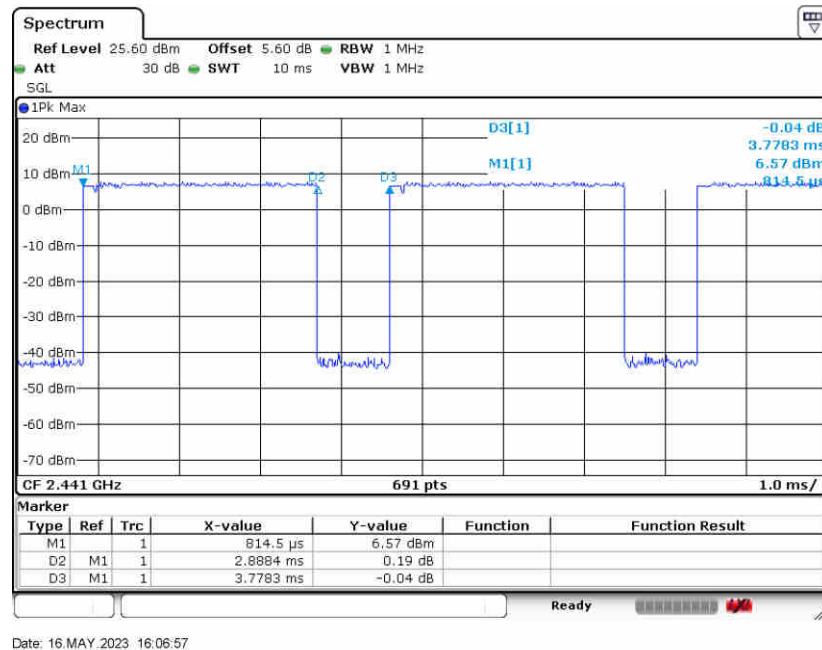
#### 3.3.4 Test Setup



### 3.3.5 Test Result of Dwell Time

Please refer to Appendix A.

**Package Transfer Time Plot**



**Remark:**

- In normal mode, hopping rate is 1600 hops/s with 6 slots (5 Transmit and 1 Receive slot) in 79 hopping channels.  
With channel hopping rate  $(1600 / 6 / 79)$  in Occupancy Time Limit  $(0.4 \times 79)$  (s),  
Hops Over Occupancy Time comes to  $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$  hops.
- In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels.  
With channel hopping rate  $(800 / 6 / 20)$  in Occupancy Time Limit  $(0.4 \times 20)$  (s),  
Hops Over Occupancy Time comes to  $(800 / 6 / 20) \times (0.4 \times 20) = 53.33$  hops.
- Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

### 3.4 20dB and 99% Bandwidth Measurement

#### 3.4.1 Limit of 20dB and 99% Bandwidth

Reporting only

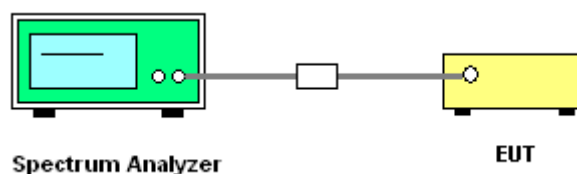
#### 3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 6.9.2 and 6.9.3.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Use the following spectrum analyzer settings for 20dB Bandwidth measurement.  
Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel;  
The RBW is set to 1% to 5% of the 99% OBW, the VBW is set to 3 times the RBW;  
Sweep = auto; Detector function = peak;  
Trace = max hold.
5. Use the following spectrum analyzer settings for 99 % Bandwidth measurement.  
Span = approximately 1.5 to 5 times the 99% bandwidth, centered on a hopping channel;  
The RBW is set to 1% to 5% of the 99% OBW, the VBW is set to 3 times the RBW;  
Sweep = auto; Detector function = peak;  
Trace = max hold.
6. Measure and record the results in the test report.

#### 3.4.4 Test Setup



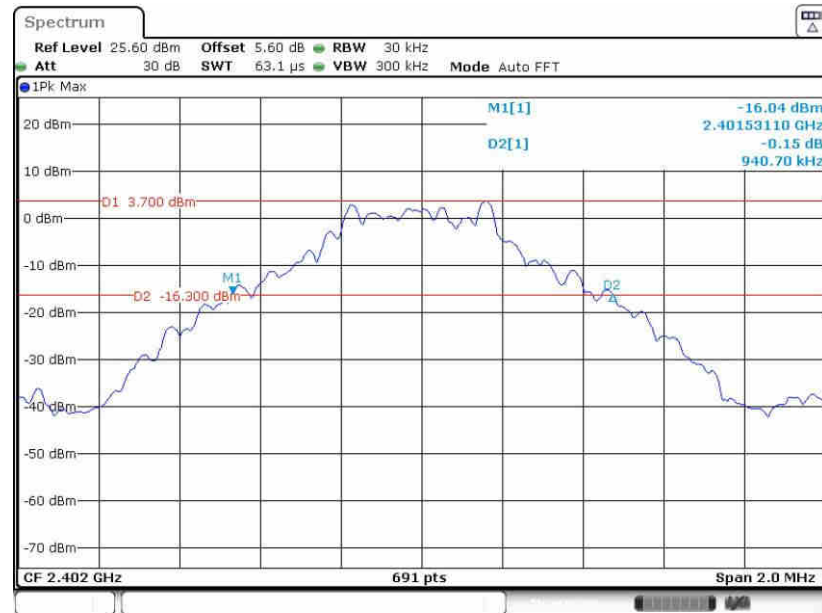


### 3.4.5 Test Result of 20dB Bandwidth

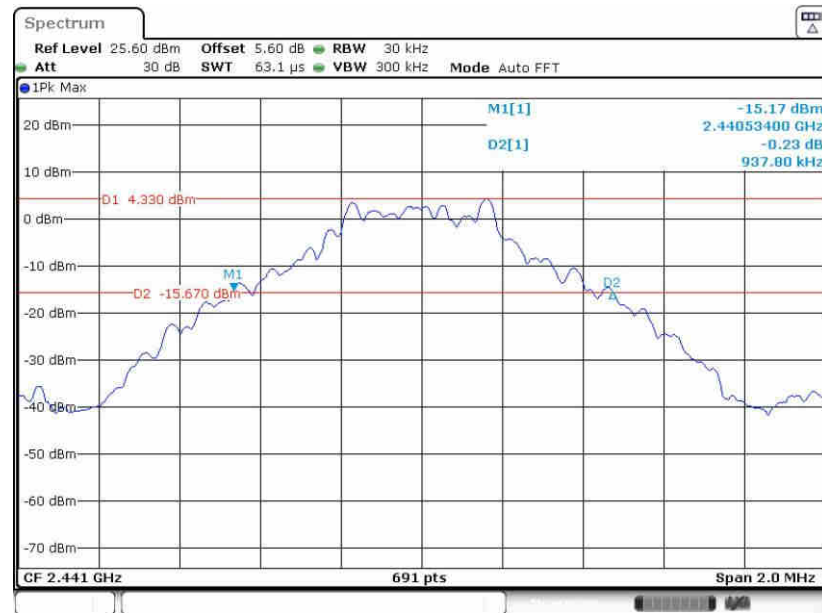
Please refer to Appendix A.

<1Mbps>

#### 20 dB Bandwidth Plot on Channel 00

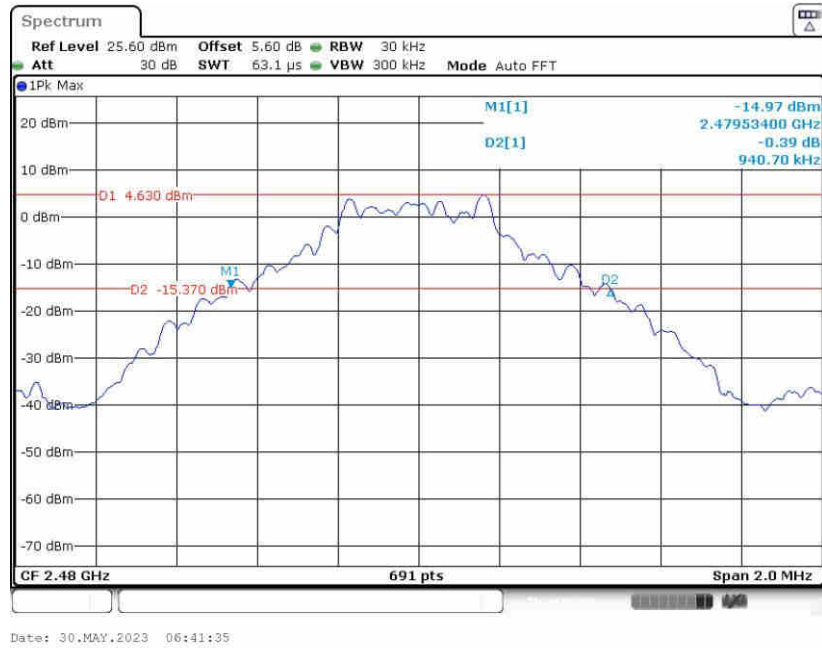


#### 20 dB Bandwidth Plot on Channel 39



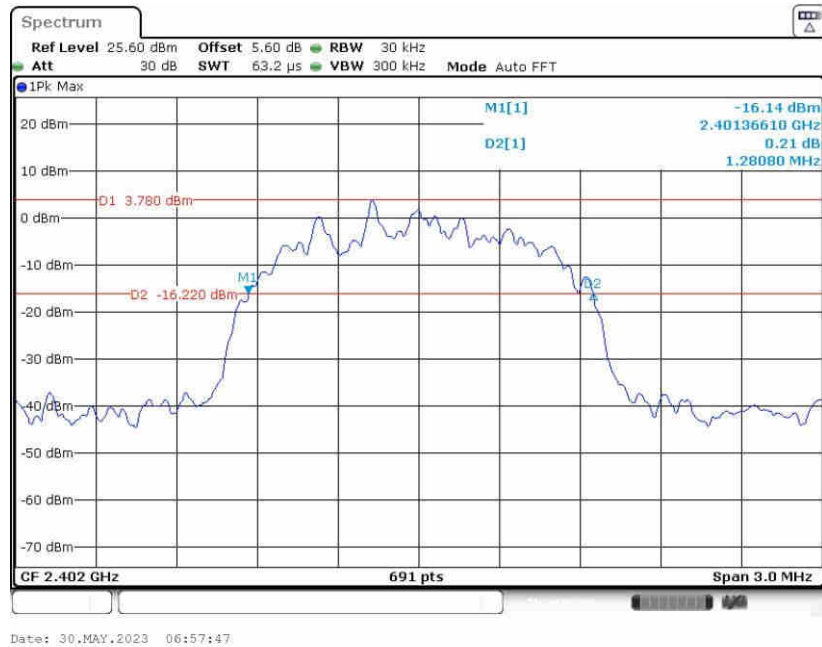


### 20 dB Bandwidth Plot on Channel 78



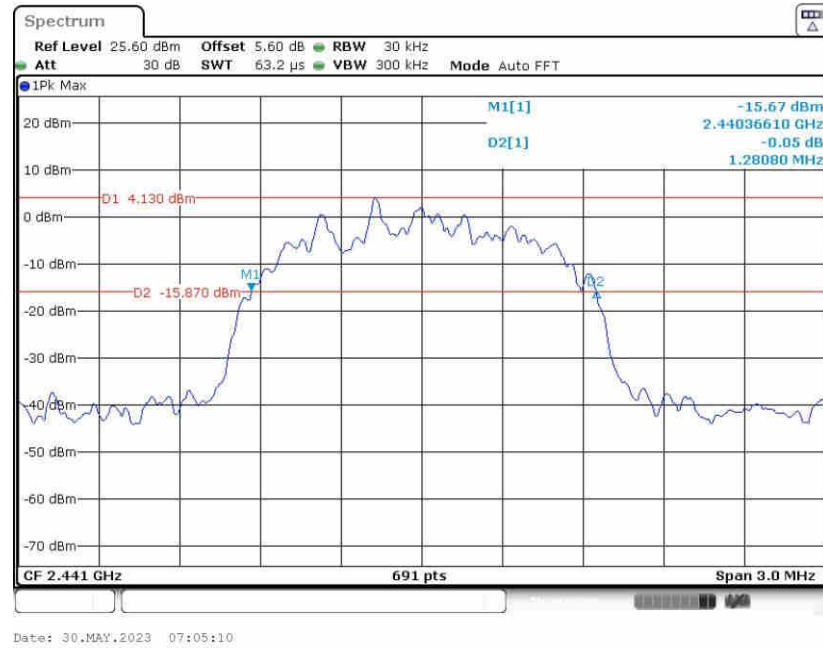
### <2Mbps>

### 20 dB Bandwidth Plot on Channel 00

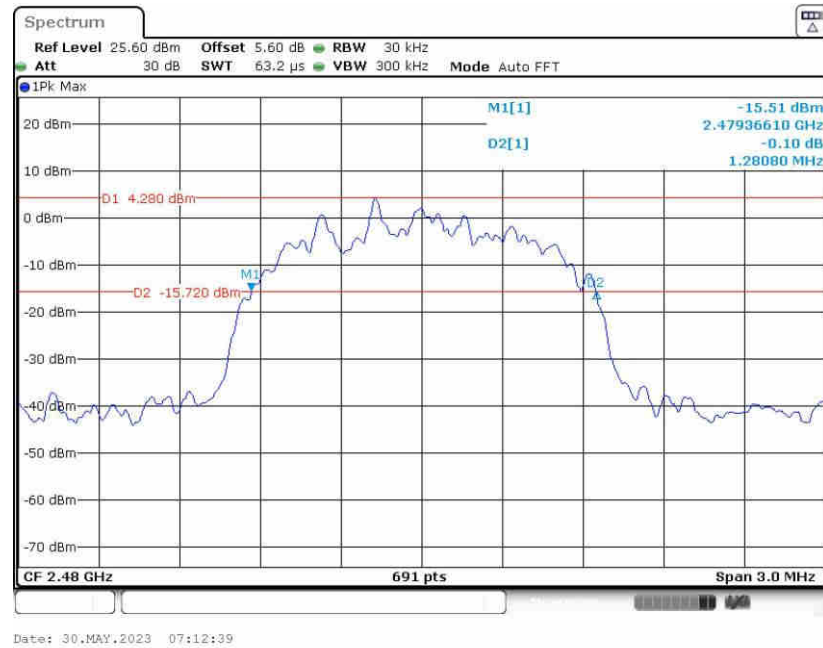




### 20 dB Bandwidth Plot on Channel 39



### 20 dB Bandwidth Plot on Channel 78







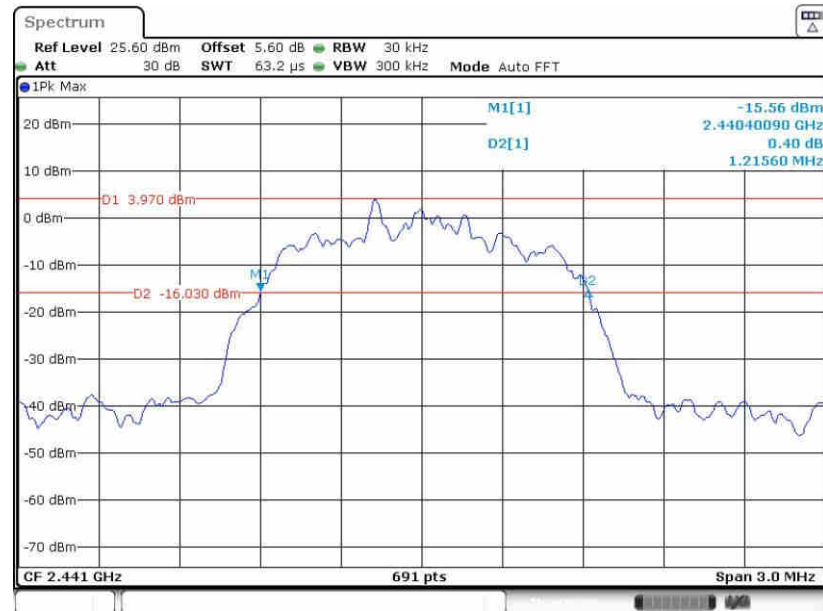
<3Mbps>

20 dB Bandwidth Plot on Channel 00



Date: 30.MAY.2023 07:22:46

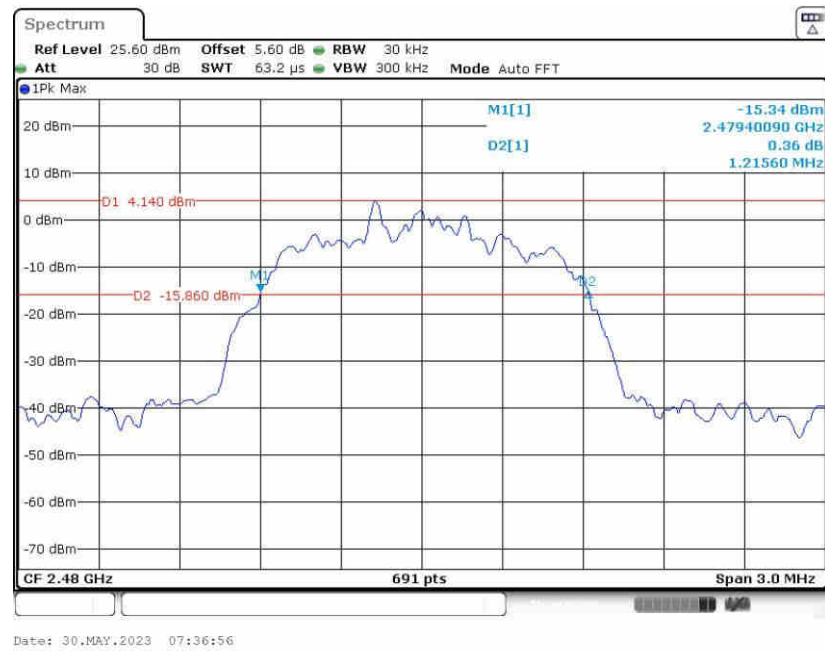
20 dB Bandwidth Plot on Channel 39



Date: 30.MAY.2023 07:30:39



20 dB Bandwidth Plot on Channel 78





### 3.4.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

<1Mbps>

#### 99% Occupied Bandwidth Plot on Channel 00

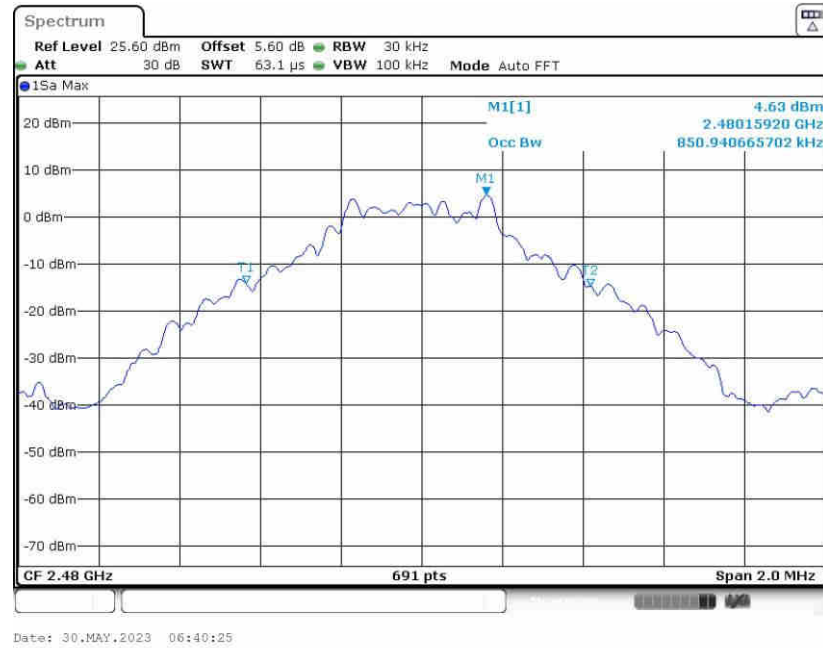


#### 99% Occupied Bandwidth Plot on Channel 39



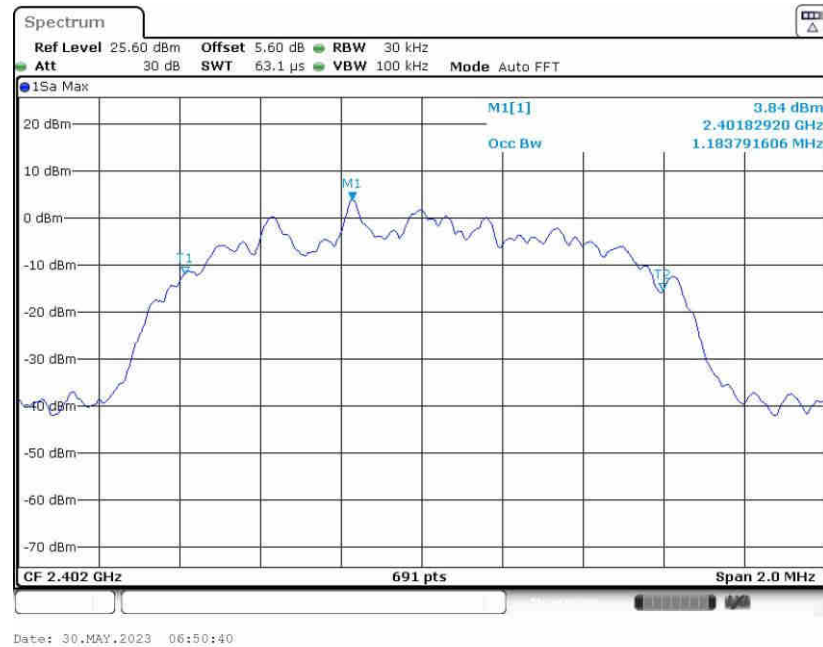


99% Occupied Bandwidth Plot on Channel 78



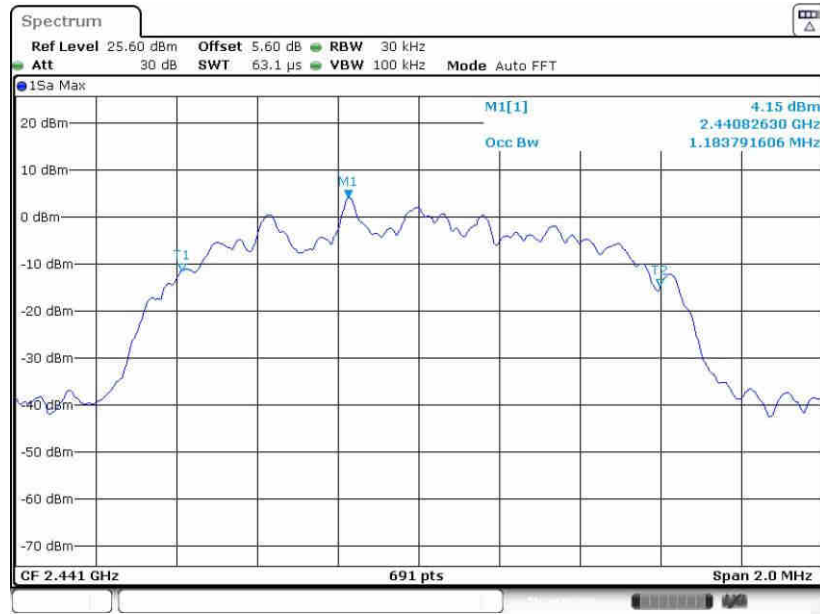
<2Mbps>

99% Occupied Bandwidth Plot on Channel 00





### 99% Occupied Bandwidth Plot on Channel 39



Date: 30.MAY.2023 07:04:08

### 99% Occupied Bandwidth Plot on Channel 78

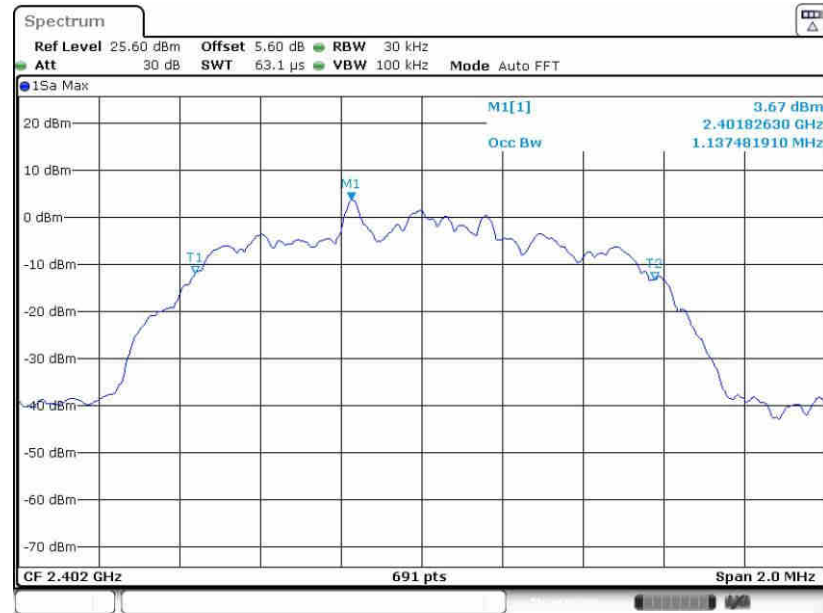


Date: 30.MAY.2023 07:13:40



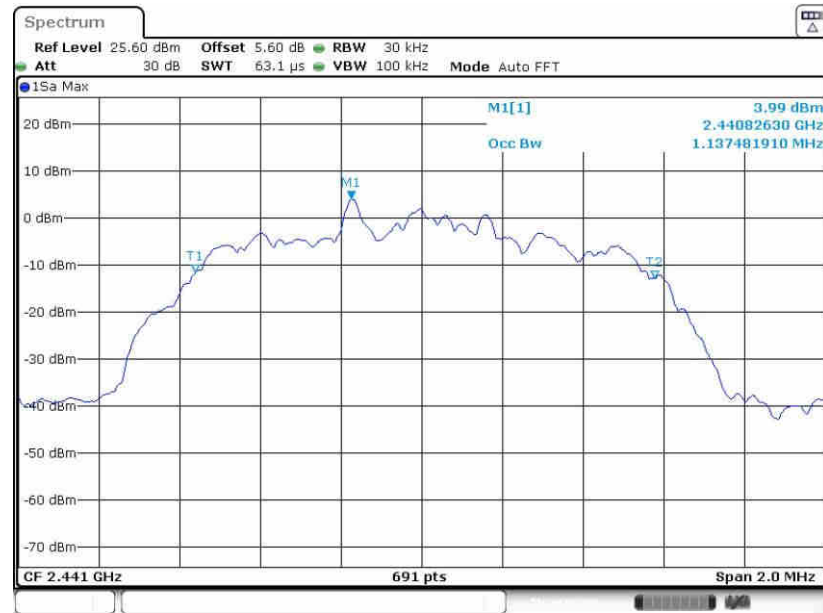
<3Mbps>

99% Occupied Bandwidth Plot on Channel 00



Date: 30.MAY.2023 07:21:18

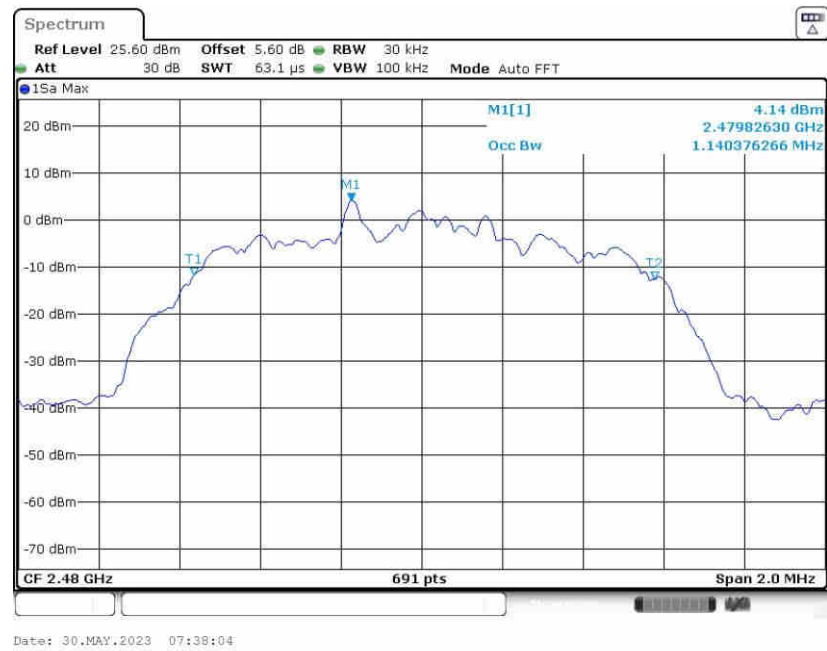
99% Occupied Bandwidth Plot on Channel 39



Date: 30.MAY.2023 07:29:41



99% Occupied Bandwidth Plot on Channel 78



Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

## 3.5 Output Power Measurement

### 3.5.1 Limit of Output Power

The maximum peak conducted output power of the intentional radiator shall not exceed the following:  
For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts. The power limit for 1Mbps, 2Mbps, 3Mbps and AFH modes are 0.125 watts.

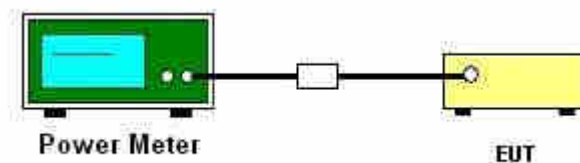
### 3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.5.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.5.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power with cable loss and record the results in the test report.
5. Measure and record the results in the test report.

### 3.5.4 Test Setup



### 3.5.5 Test Result of Peak Output Power

Please refer to Appendix A.



## 3.6 Conducted Band Edges Measurement

### 3.6.1 Limit of Band Edges

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

### 3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.6.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.6.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Set RBW = 100kHz, VBW = 300kHz. Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.
4. Enable hopping function of the EUT and then repeat step 2. and 3.
5. Measure and record the results in the test report.

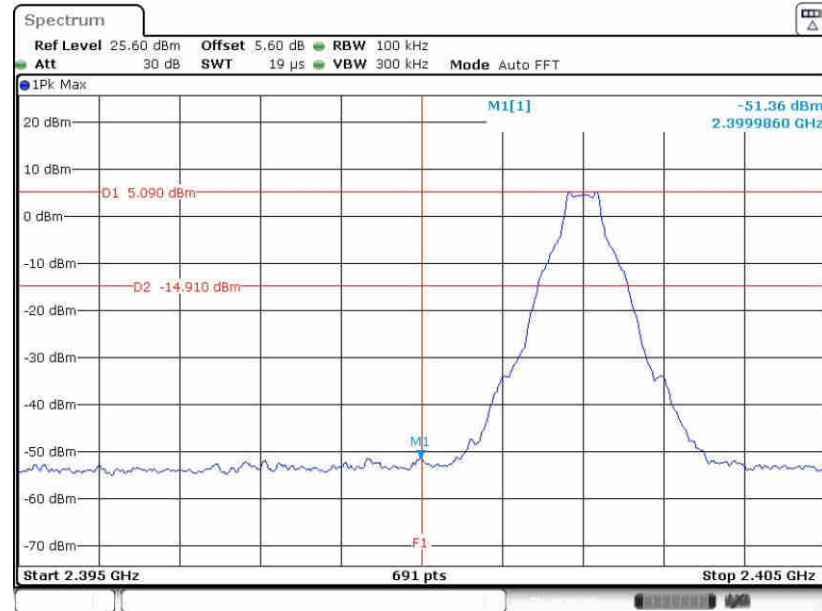
### 3.6.4 Test Setup



### 3.6.5 Test Result of Conducted Band Edges

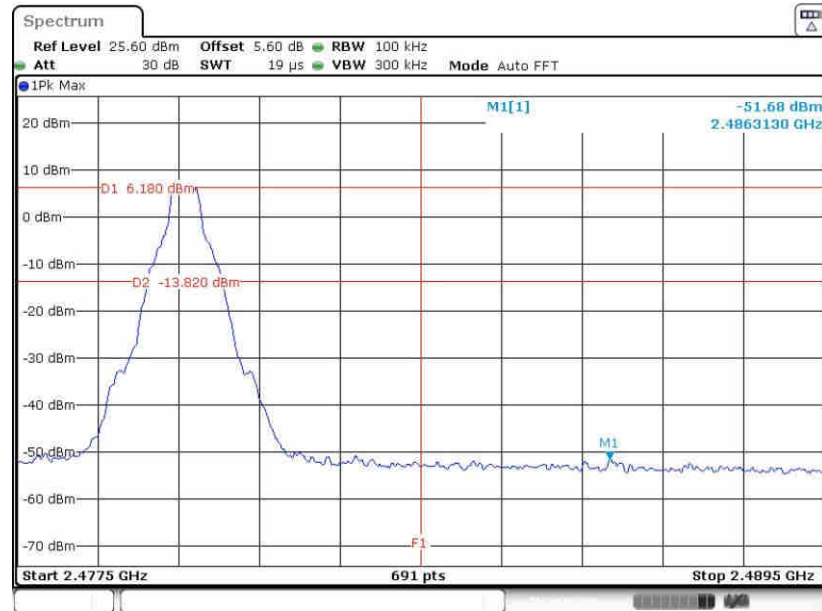
<1Mbps>

#### Low Band Edge Plot on Channel 00



Date: 30.MAY.2023 06:18:21

#### High Band Edge Plot on Channel 78

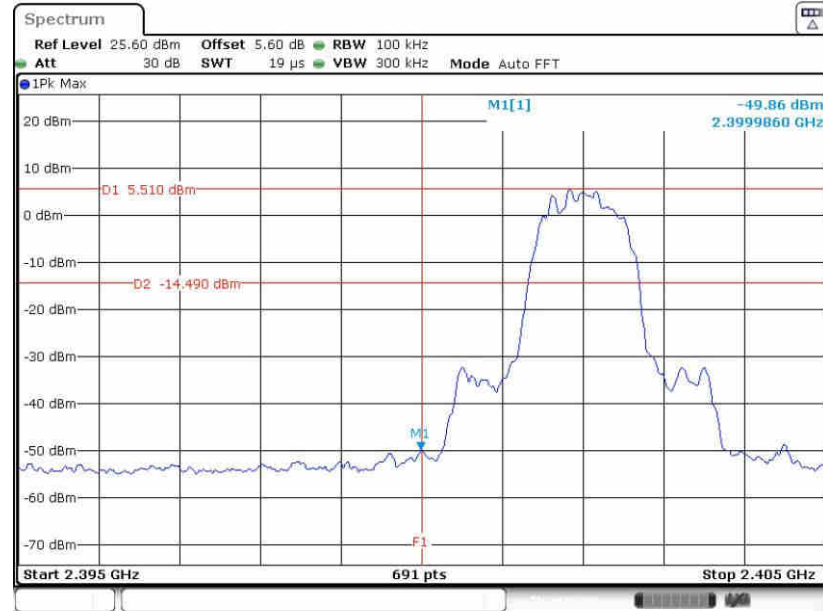


Date: 30.MAY.2023 06:42:09



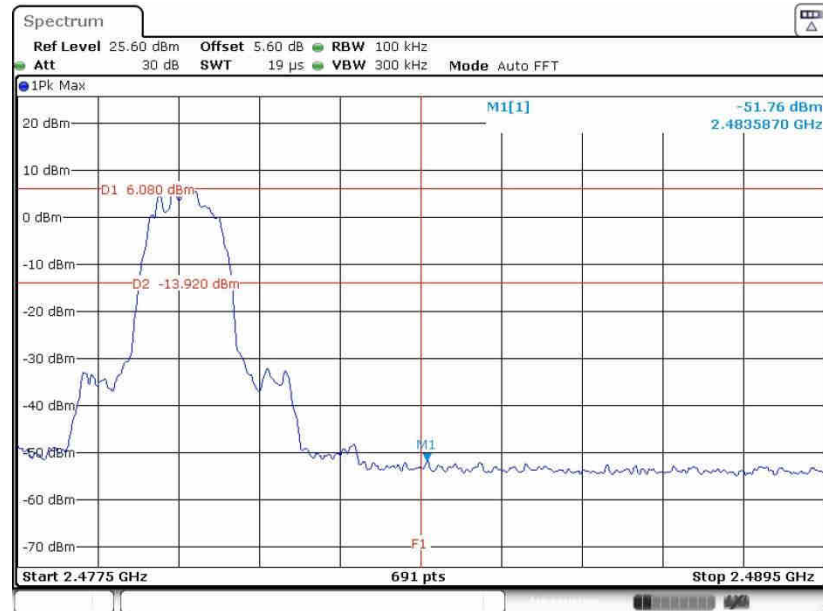
<2Mbps>

Low Band Edge Plot on Channel 00



Date: 30.MAY.2023 06:54:42

High Band Edge Plot on Channel 78

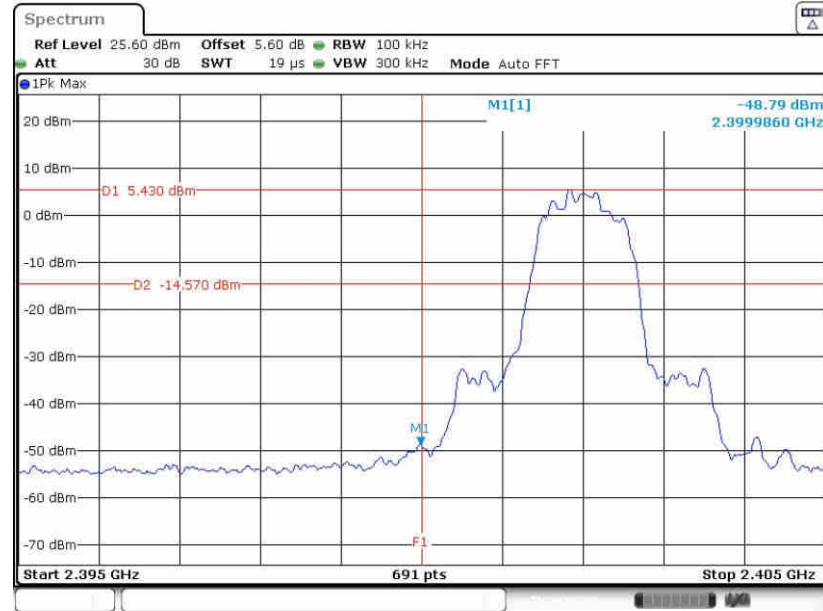


Date: 30.MAY.2023 07:13:01



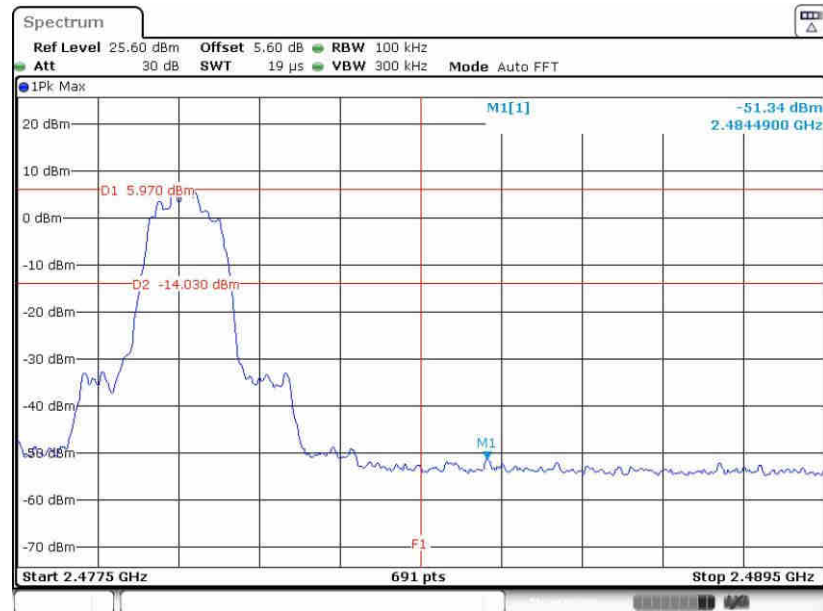
<3Mbps>

Low Band Edge Plot on Channel 00



Date: 30.MAY.2023 07:21:43

High Band Edge Plot on Channel 78

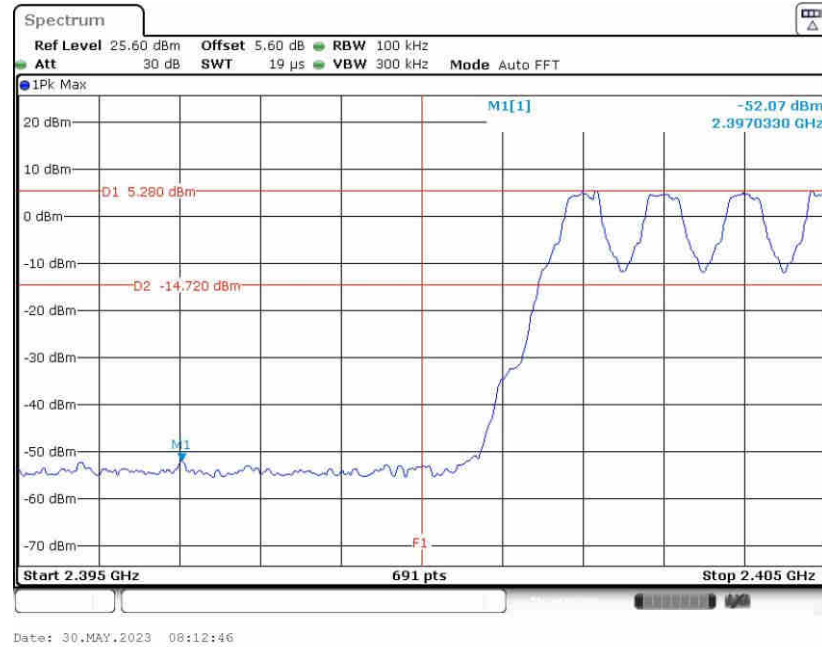


Date: 30.MAY.2023 07:37:24

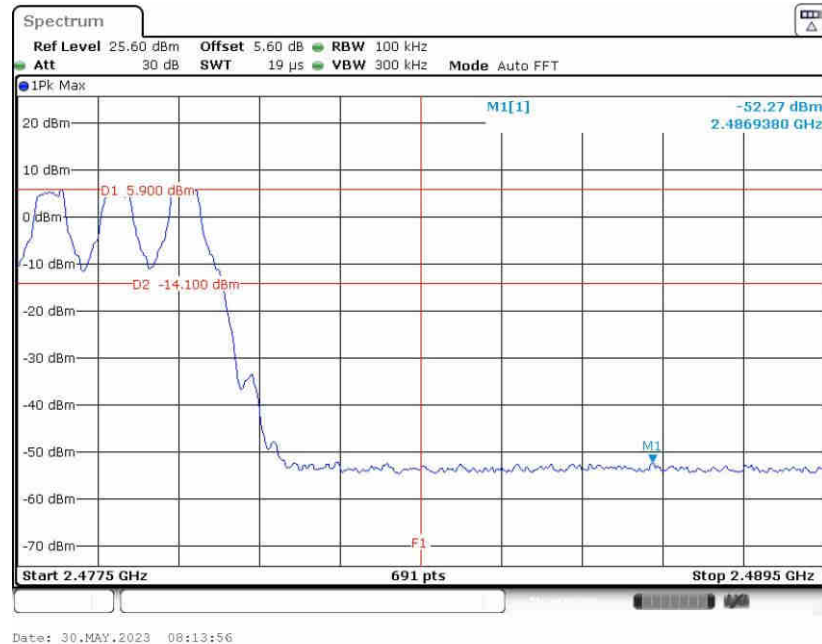
### 3.6.6 Test Result of Conducted Hopping Mode Band Edges

<1Mbps>

#### Hopping Mode Low Band Edge Plot

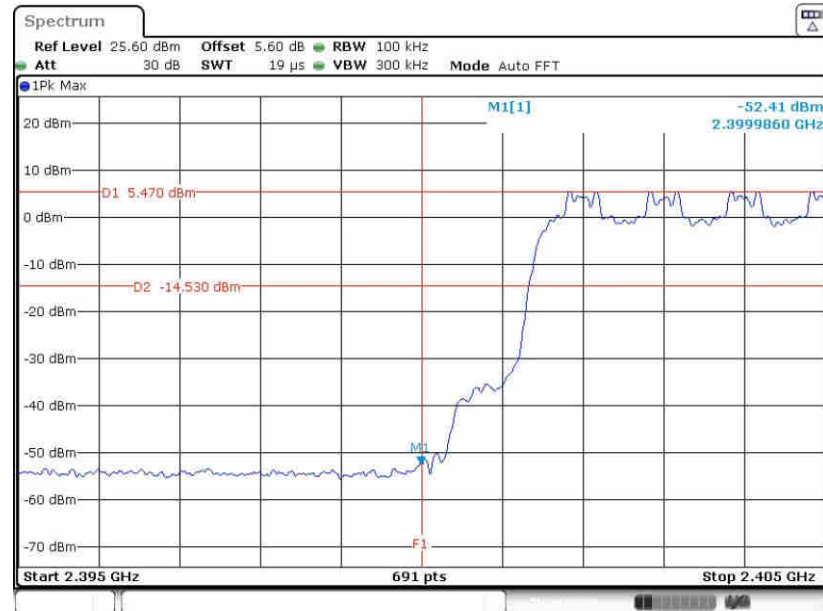


#### Hopping Mode High Band Edge Plot



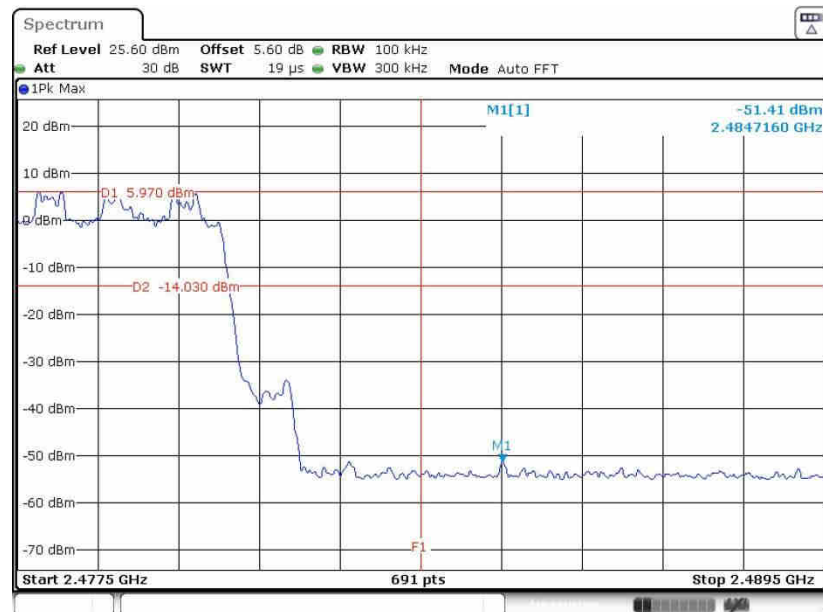
<2Mbps>

### Hopping Mode Low Band Edge Plot



Date: 30.MAY.2023 08:15:50

### Hopping Mode High Band Edge Plot

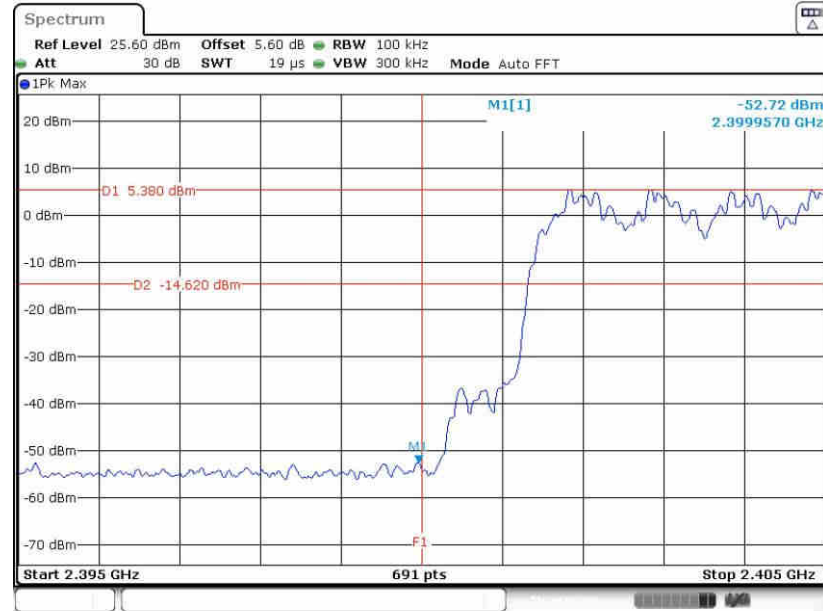


Date: 30.MAY.2023 08:16:17



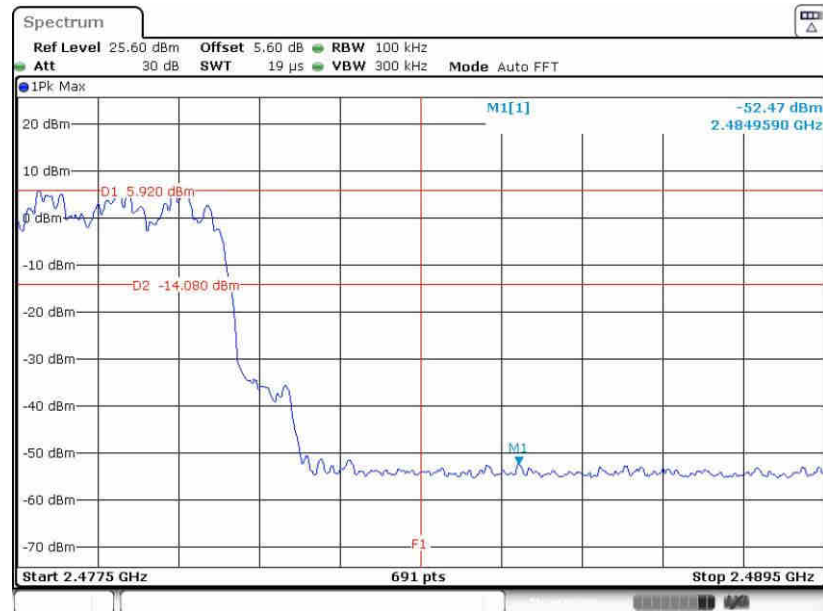
<3Mbps>

### Hopping Mode Low Band Edge Plot



Date: 30.MAY.2023 08:17:59

### Hopping Mode High Band Edge Plot



Date: 30.MAY.2023 08:18:20

## 3.7 Conducted Spurious Emission Measurement

### 3.7.1 Limit of Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

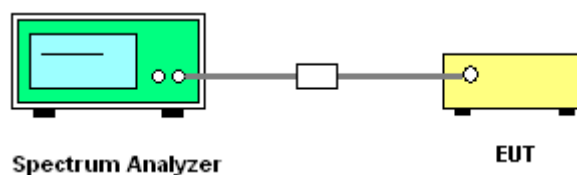
### 3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.7.3 Test Procedure

1. The testing follows ANSI C63.10-2013 clause 7.8.8.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

### 3.7.4 Test Setup

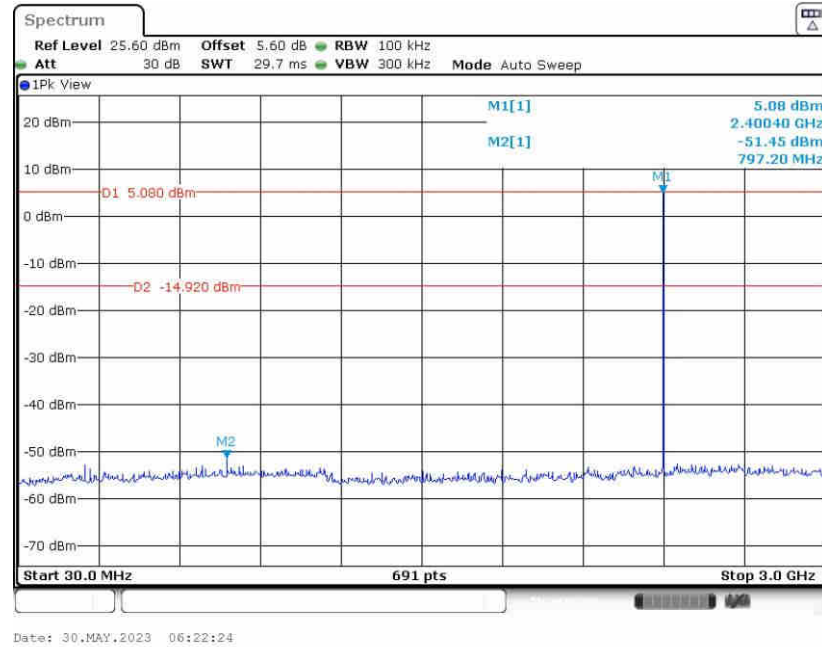




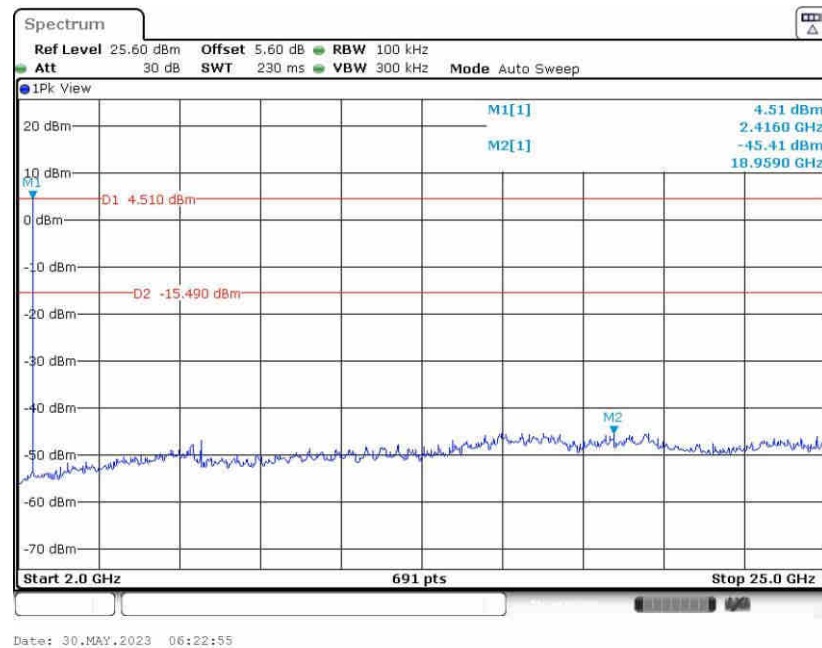
### 3.7.5 Test Result of Conducted Spurious Emission

<1Mbps>

CSE Plot on Ch 00 between 30MHz ~ 3 GHz

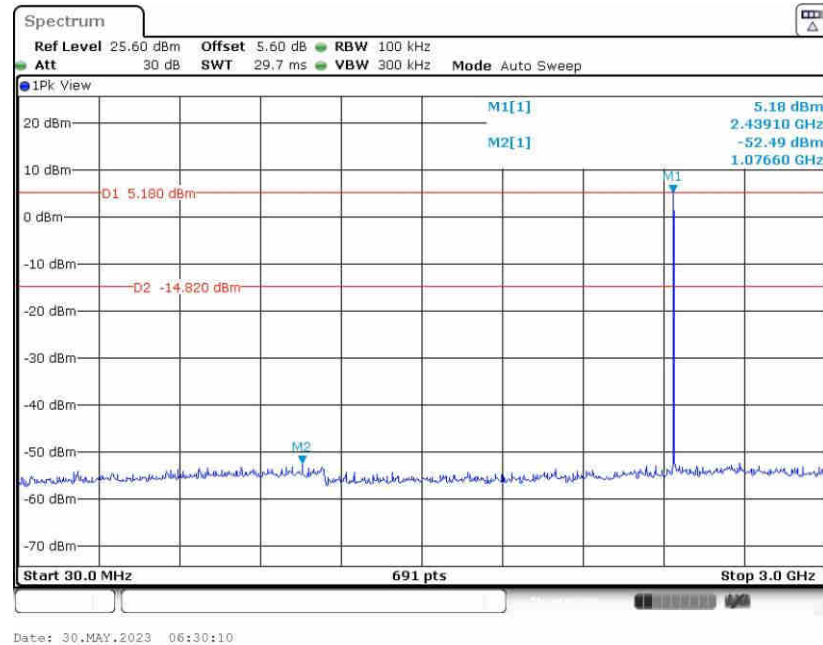


CSE Plot on Ch 00 between 2 GHz ~ 25 GHz

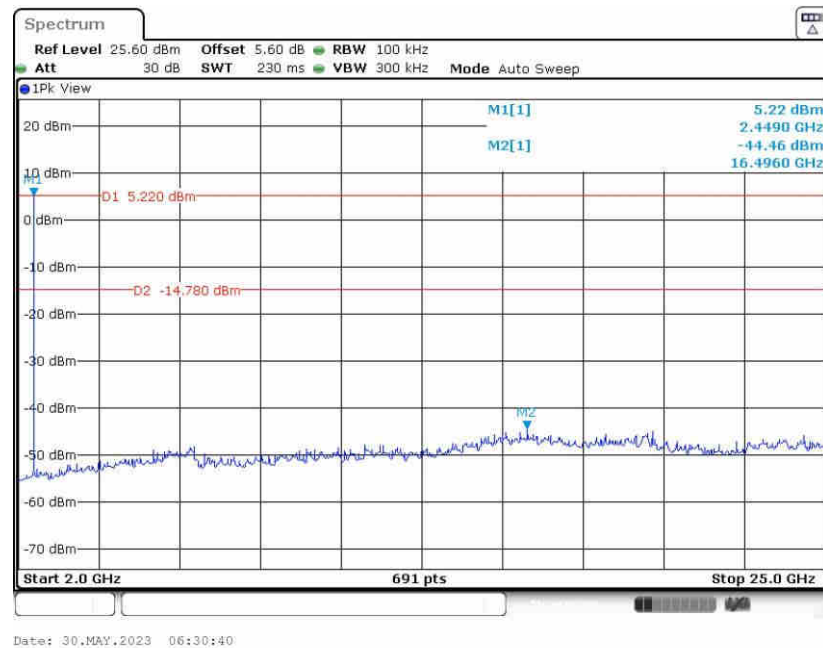




CSE Plot on Ch 39 between 30MHz ~ 3 GHz

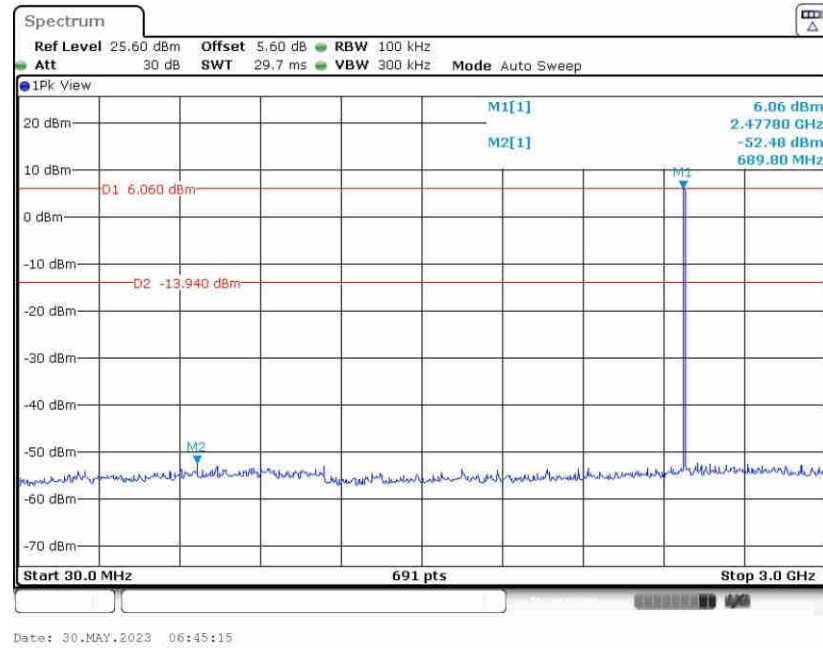


CSE Plot on Ch 39 between 2 GHz ~ 25 GHz

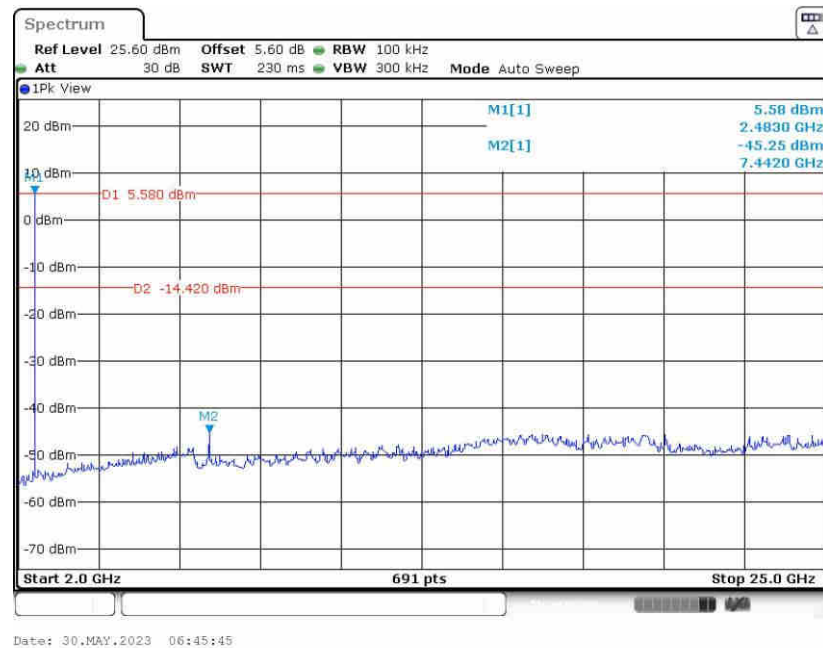




CSE Plot on Ch 78 between 30MHz ~ 3 GHz

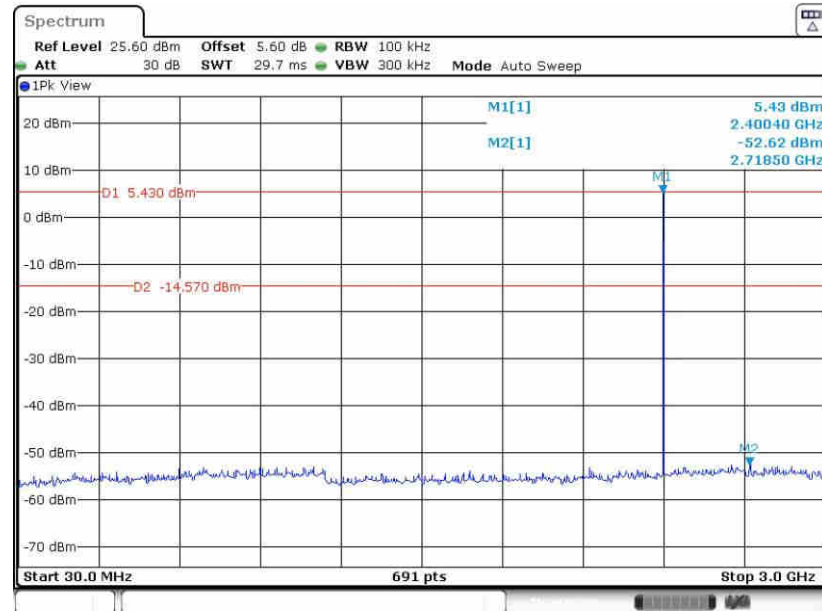


CSE Plot on Ch 78 between 2 GHz ~ 25 GHz



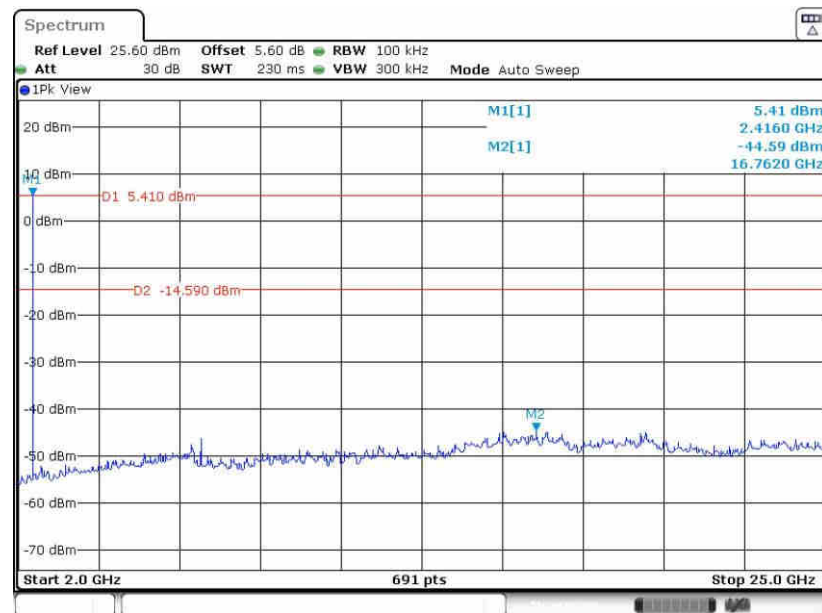
<2Mbps>

CSE Plot on Ch 00 between 30MHz ~ 3 GHz



Date: 30.MAY.2023 06:53:42

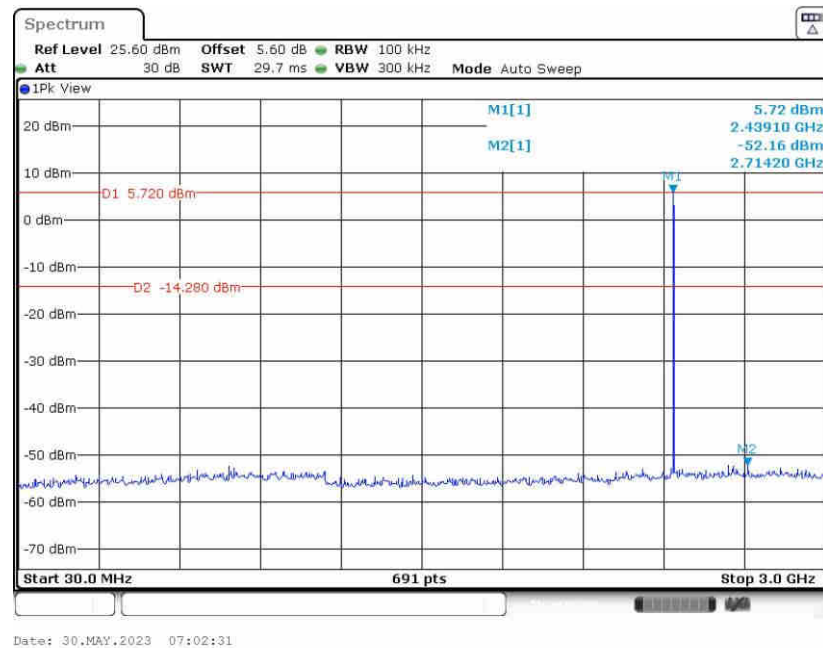
CSE Plot on Ch 00 between 2 GHz ~ 25 GHz



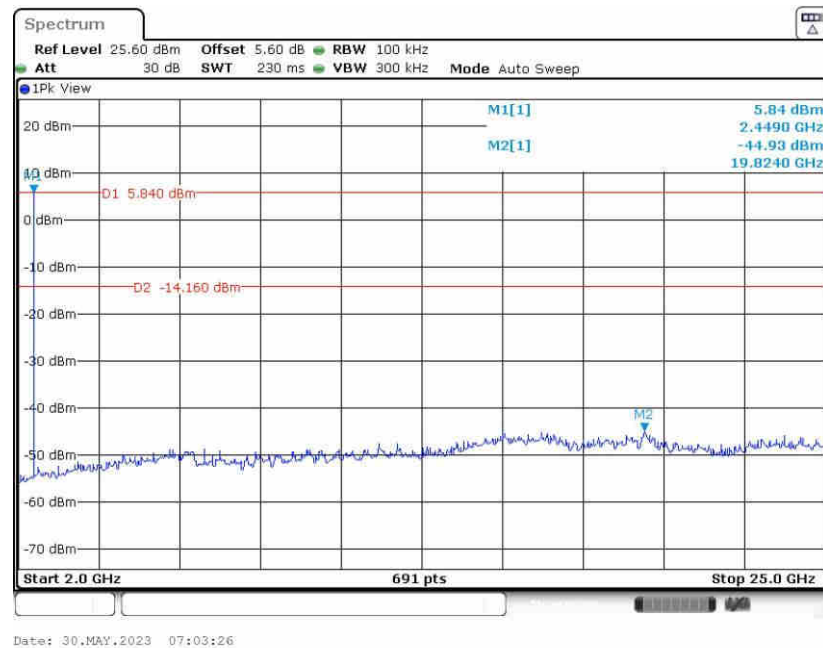
Date: 30.MAY.2023 06:54:12



CSE Plot on Ch 39 between 30MHz ~ 3 GHz

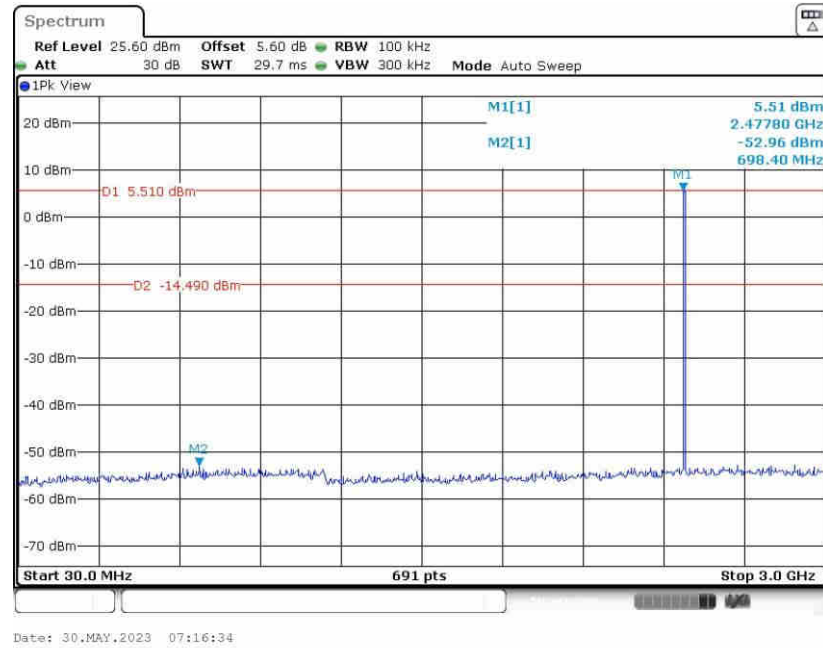


CSE Plot on Ch 39 between 2 GHz ~ 25 GHz

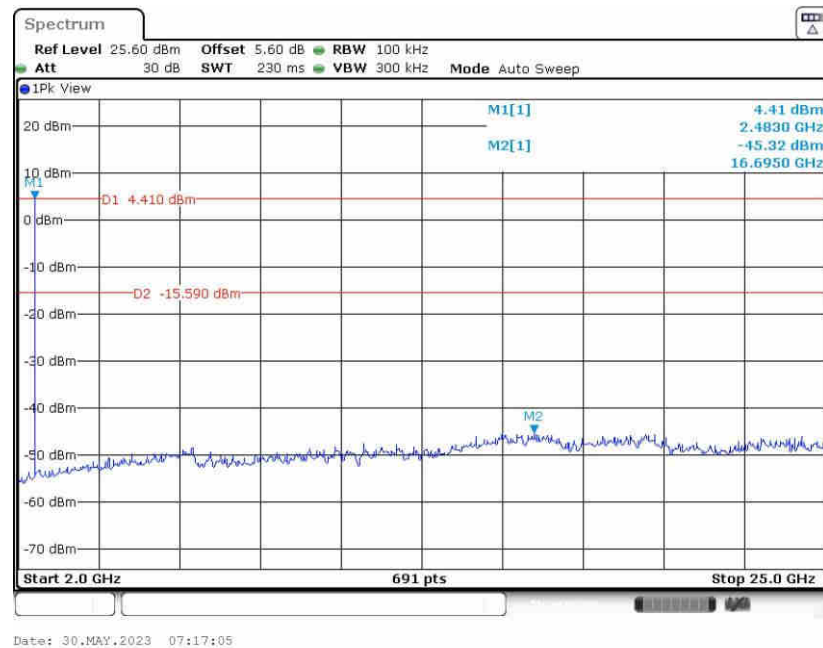




CSE Plot on Ch 78 between 30MHz ~ 3 GHz



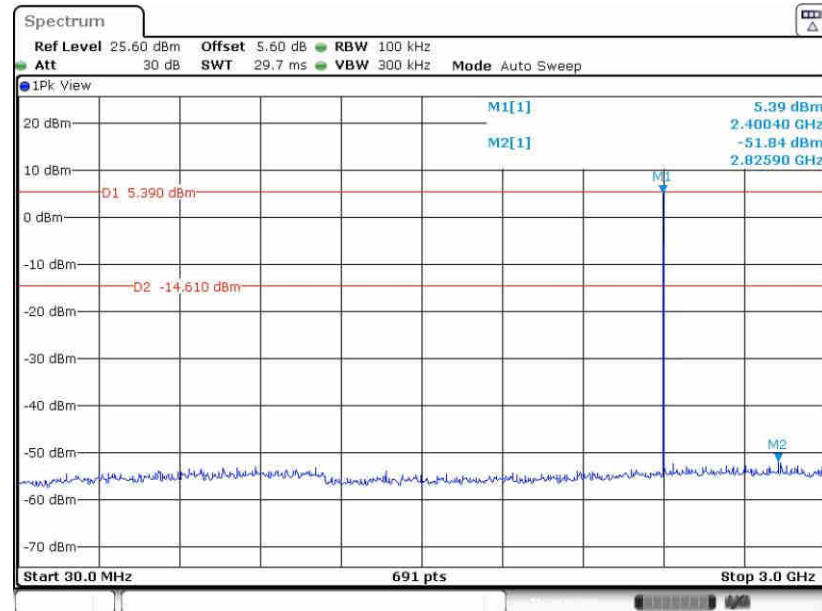
CSE Plot on Ch 78 between 2 GHz ~ 25 GHz





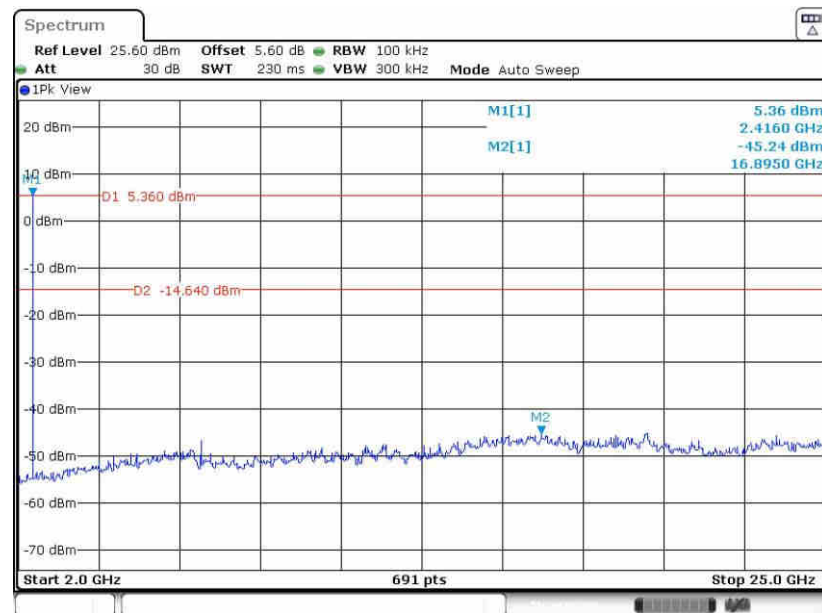
<3Mbps>

CSE Plot on Ch 00 between 30MHz ~ 3 GHz



Date: 30.MAY.2023 07:20:09

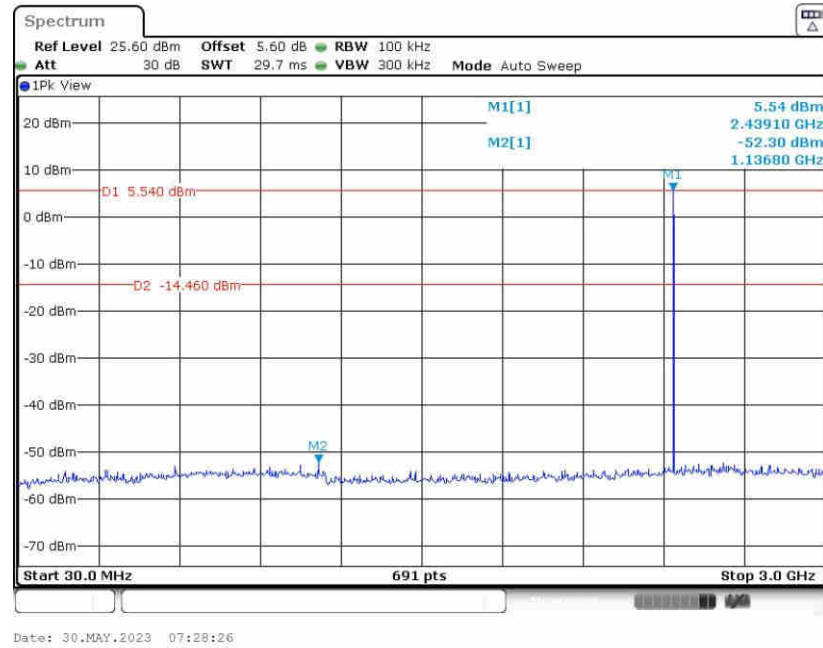
CSE Plot on Ch 00 between 2 GHz ~ 25 GHz



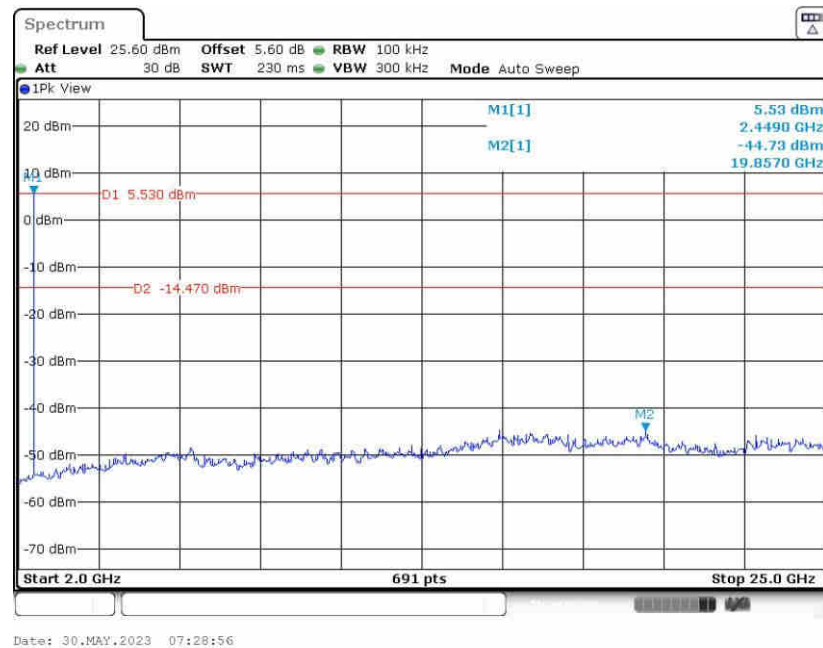
Date: 30.MAY.2023 07:20:37



CSE Plot on Ch 39 between 30MHz ~ 3 GHz



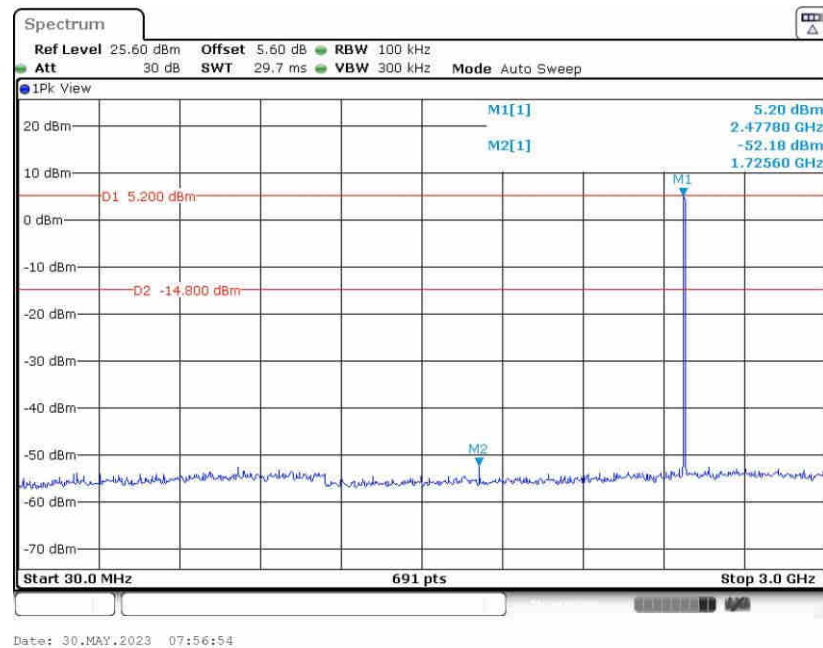
CSE Plot on Ch 39 between 2 GHz ~ 25 GHz



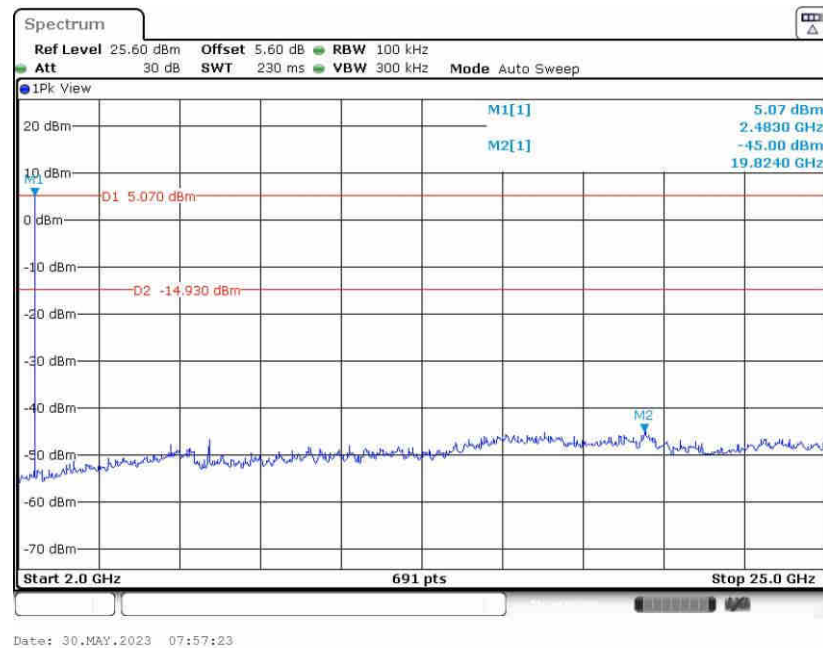




CSE Plot on Ch 78 between 30MHz ~ 3 GHz



CSE Plot on Ch 78 between 2 GHz ~ 25 GHz



### 3.8 Radiated Band Edges and Spurious Emission Measurement

#### 3.8.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

#### 3.8.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.



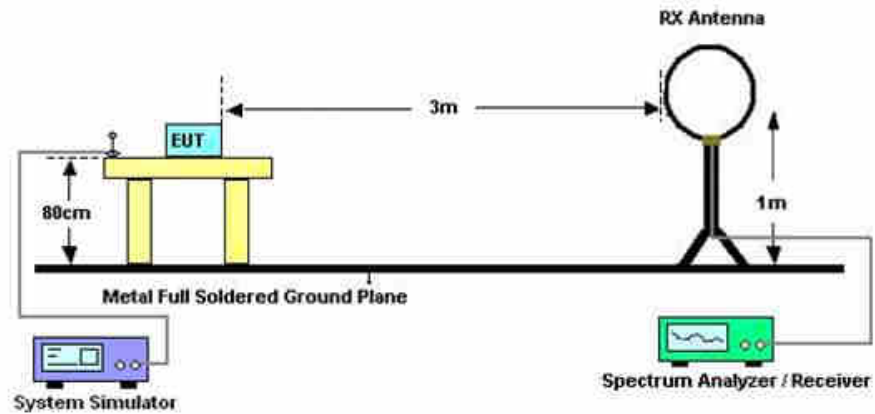
### 3.8.3 Test Procedures

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
4. Set to the maximum power setting and enable the EUT transmit continuously.
5. Use the following spectrum analyzer settings:
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Set RBW=100 kHz for  $f < 1 \text{ GHz}$ , RBW=1MHz for  $f > 1\text{GHz}$  ; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
  - (3) For average measurement: use duty cycle correction factor method per 15.35(c).  
Duty cycle = On time/100 milliseconds  
$$\text{On time} = N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$$
  
Where  $N_1$  is number of type 1 pulses,  $L_1$  is length of type 1 pulses, etc.  
Average Emission Level = Peak Emission Level +  $20 * \log(\text{Duty cycle})$
6. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
7. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
8. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

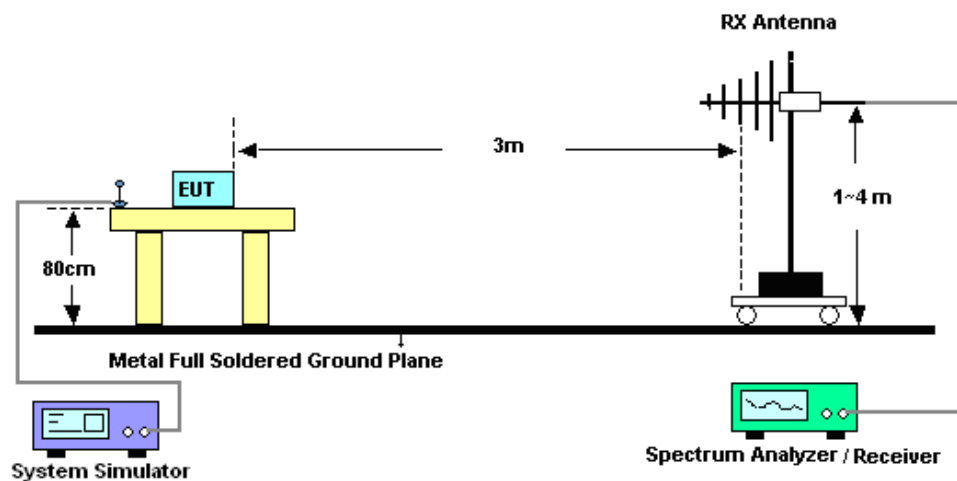
Note: The average levels were calculated from the peak level corrected with duty cycle correction factor (-24.85dB) derived from  $20\log(\text{dwell time}/100\text{ms})$ . This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

### 3.8.4 Test Setup

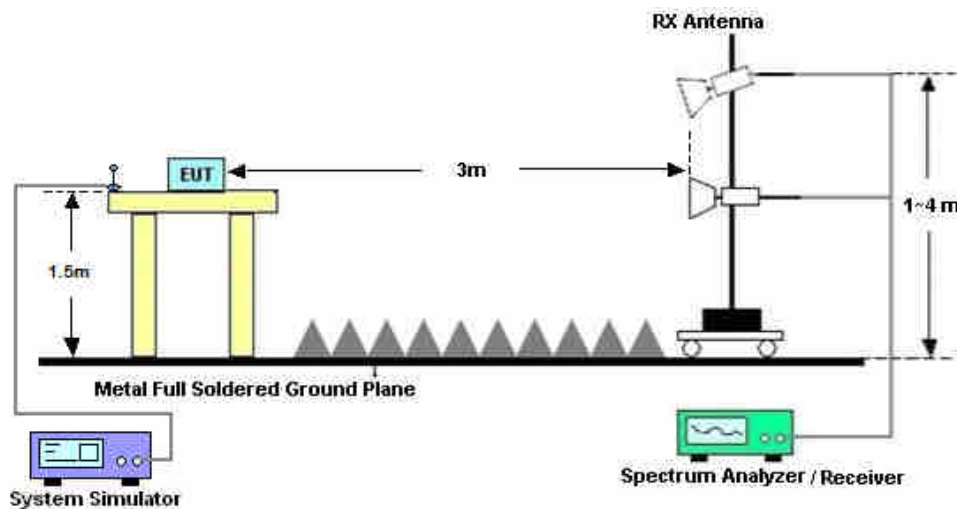
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



**3.8.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

**3.8.6 Test Result of Radiated Spurious at Band Edges**

Please refer to Appendix C

**3.8.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)**

Please refer to Appendix C

**3.8.8 Duty cycle correction factor for average measurement**

Please refer to Appendix D.

### 3.9 AC Conducted Emission Measurement

#### 3.9.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

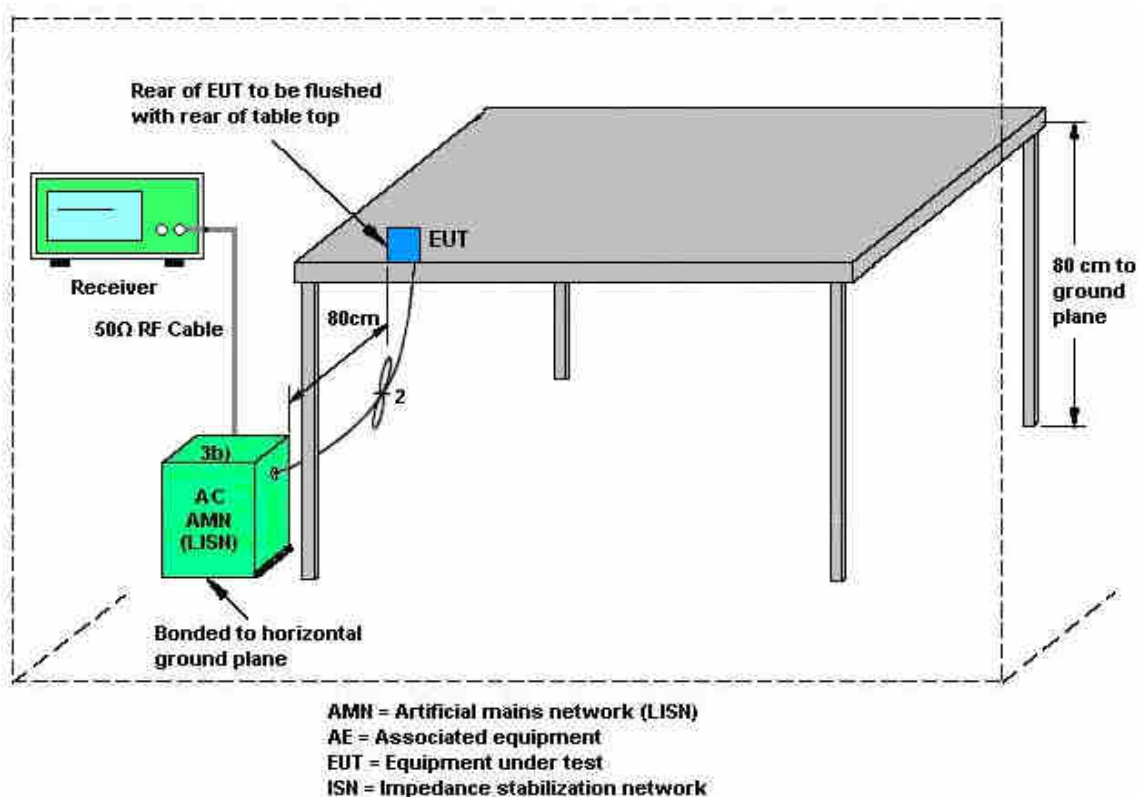
#### 3.9.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.9.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

### 3.9.4 Test Setup



### 3.9.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## **3.10 Antenna Requirements**

### **3.10.1 Standard Applicable**

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

### **3.10.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.

### **3.10.3 Antenna Gain**

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.





## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 12, 2022	May 30, 2023~ May 31, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2023	May 30, 2023~ May 31, 2023	Jan. 04, 2024	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2023	May 30, 2023~ May 31, 2023	Jan. 04, 2024	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY572901 51	3Hz~8.5GHz;Max 30dBm	Jul. 11, 2022	May 22, 2023~ Jun. 27, 2023	Jul. 10, 2023	Radiation (03CH08-KS)
Spectrum Analyzer	R&S	FSV40	101932	10kHz~40GHz; Max 30dBm	Oct. 12, 2022	May 22, 2023~ Jun. 27, 2023	Oct. 11, 2023	Radiation (03CH08-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 16, 2022	May 22, 2023~ Jun. 27, 2023	Oct. 15, 2023	Radiation (03CH08-KS)
Bilog Antenna	TESEQ& VGT	CBL 61110	59915	30MHz~1GHz	Aug. 26, 2022	May 22, 2023~ Jun. 27, 2023	Aug. 25, 2023	Radiation (03CH08-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00240138	1GHz~18GHz	Jul. 08, 2022	May 22, 2023~ Jun. 27, 2023	Jul. 07, 2023	Radiation (03CH08-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2023	May 22, 2023~ Jun. 27, 2023	Jan. 07, 2024	Radiation (03CH08-KS)
Amplifier	SONOMA	310N	413741	9KHz~1GHz	Jan. 05, 2023	May 22, 2023~ Jun. 27, 2023	Jan. 04, 2024	Radiation (03CH08-KS)
Amplifier	EM	EM01G18GA	060834	1Ghz~18Ghz	Oct. 12, 2022	May 22, 2023~ Jun. 27, 2023	Oct. 11, 2023	Radiation (03CH08-KS)
high gain Amplifier	EM	EM01G18GA	060845	1Ghz~18Ghz	Jan. 05, 2023	May 22, 2023~ Jun. 27, 2023	Jan. 04, 2024	Radiation (03CH08-KS)
Amplifier	MITEQ	EM18G40GG A	060728	18~40GHz	Jan. 05, 2023	May 22, 2023~ Jun. 27, 2023	Jan. 04, 2024	Radiation (03CH08-KS)
AC Power Source	Chroma	61601	616010002 473	N/A	NCR	May 22, 2023~ Jun. 27, 2023	NCR	Radiation (03CH08-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	May 22, 2023~ Jun. 27, 2023	NCR	Radiation (03CH08-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	May 22, 2023~ Jun. 27, 2023	NCR	Radiation (03CH08-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 16, 2023	May 30, 2023~ May 31, 2023	May 15, 2024	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2022	May 30, 2023~ May 31, 2023	Oct. 12, 2023	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 16, 2023	May 30, 2023~ May 31, 2023	May 15, 2024	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2022	May 30, 2023~ May 31, 2023	Oct. 11, 2023	Conduction (CO01-KS)

NCR: No Calibration Required

## 5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	$\pm 0.46$ dB
Conducted Emissions	$\pm 0.48$ dB
Occupied Channel Bandwidth	$\pm 0.1$ %

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ )	2.94dB
--	--------

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ )	6.28dB
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ )	4.90dB
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ )	5.26dB
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----- THE END -----



## **Appendix A. Conducted Test Results**

Bluetooth

Test Engineer:	Jacob Zhang	Temperature:	20~26	°C
Test Date:	2023/5/30~2023/5/31	Relative Humidity:	40~51	%

BT2.0

TEST RESULTS DATA

20dB and 99% Occupied Bandwidth and Hopping Channel Separation

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	20db BW (MHz)	99% Bandwidth (MHz)	Hopping Channel Separation Measurement (KHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
DH	1Mbps	1	0	2402	0.941	0.851	1007.200	0.6271	Pass
DH	1Mbps	1	39	2441	0.938	0.854	998.600	0.6253	Pass
DH	1Mbps	1	78	2480	0.941	0.851	989.900	0.6271	Pass
2DH	2Mbps	1	0	2402	1.281	1.184	1015.900	0.8539	Pass
2DH	2Mbps	1	39	2441	1.281	1.184	998.600	0.8539	Pass
2DH	2Mbps	1	78	2480	1.281	1.184	994.200	0.8539	Pass
3DH	3Mbps	1	0	2402	1.216	1.137	1007.200	0.8104	Pass
3DH	3Mbps	1	39	2441	1.216	1.137	981.200	0.8104	Pass
3DH	3Mbps	1	78	2480	1.216	1.140	998.600	0.8104	Pass

TEST RESULTS DATA

Dwell Time

Mod.	Hopping Channel Number Rate	Hops Over Occupancy Time(hops)	Package Transfer Time (msec) (MHz)	Dwell Time (sec)	Limits (sec)	Pass/Fail
Nomal	79	106.67	2.89	0.31	0.4	Pass
AFH	20	53.33	2.89	0.15	0.4	Pass

TEST RESULTS DATA

Peak Power Table

DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
DH1	0	1	6.10	20.97	Pass
	39	1	6.11	20.97	Pass
	78	1	6.19	20.97	Pass
2DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
2DH1	0	1	7.27	20.97	Pass
	39	1	7.35	20.97	Pass
	78	1	7.48	20.97	Pass
3DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
3DH1	0	1	7.81	20.97	Pass
	39	1	7.96	20.97	Pass
	78	1	8.01	20.97	Pass

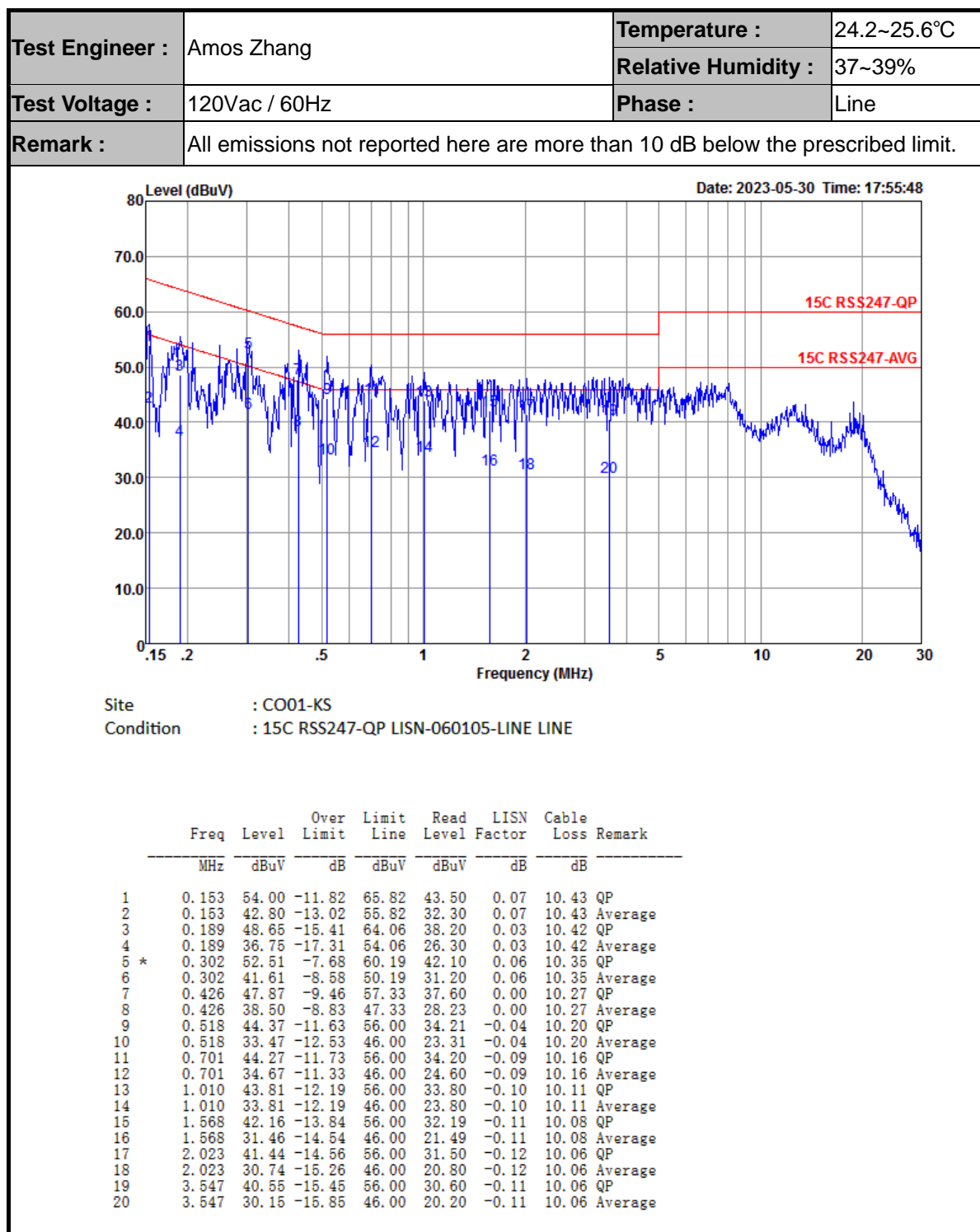
TEST RESULTS DATA

Number of Hopping Frequency

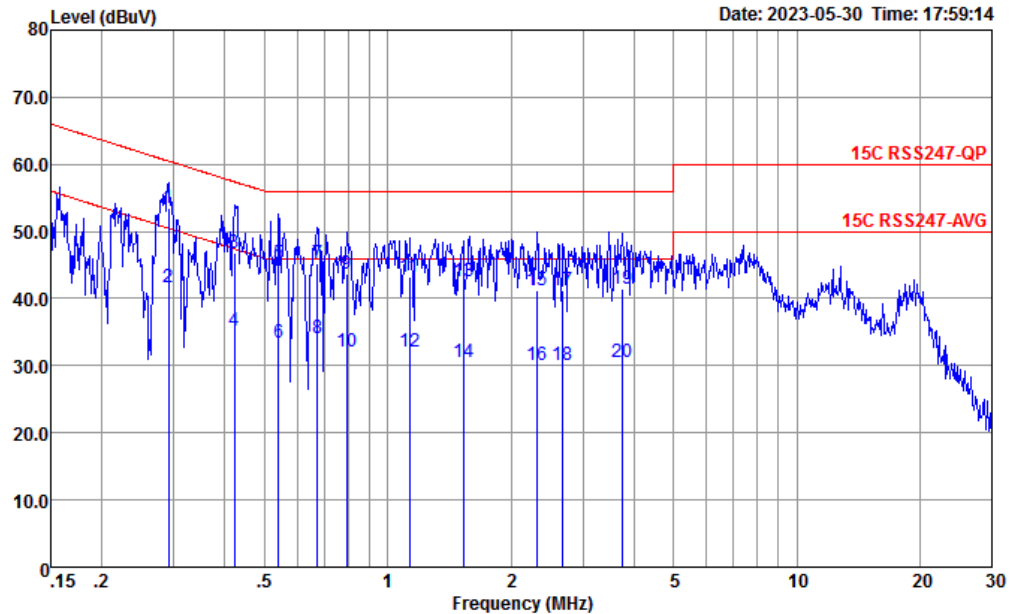
Number of Hopping (Channel)	Adaptive Frequency Hopping (Channel)	Limits (Channel)	Pass/Fail
79	79	> 15	Pass



## Appendix B. AC Conducted Emission Test Results



<b>Test Engineer :</b>	Amos Zhang	<b>Temperature :</b>	24.2~25.6°C
		<b>Relative Humidity :</b>	37~39%
<b>Test Voltage :</b>	120Vac / 60Hz	<b>Phase :</b>	Neutral
<b>Remark :</b>	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS  
Condition : 15C RSS247-QP LISN-060105-NEUTRAL NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.291	53.41	-7.09	60.50	43.10	-0.04	10.35	QP
2	0.291	41.61	-8.89	50.50	31.30	-0.04	10.35	Average
3	0.421	46.81	-10.61	57.42	36.60	-0.07	10.28	QP
4	0.421	35.11	-12.31	47.42	24.90	-0.07	10.28	Average
5	0.541	45.32	-10.68	56.00	35.20	-0.08	10.20	QP
6	0.541	33.42	-12.58	46.00	23.30	-0.08	10.20	Average
7	0.672	45.28	-10.72	56.00	35.20	-0.09	10.17	QP
8	0.672	34.18	-11.82	46.00	24.10	-0.09	10.17	Average
9	0.792	43.64	-12.36	56.00	33.60	-0.10	10.14	QP
10	0.792	32.14	-13.86	46.00	22.10	-0.10	10.14	Average
11	1.129	43.29	-12.71	56.00	33.30	-0.11	10.10	QP
12	1.129	32.09	-13.91	46.00	22.10	-0.11	10.10	Average
13	1.527	42.66	-13.44	56.00	32.60	-0.12	10.08	QP
14	1.527	30.56	-15.44	46.00	20.60	-0.12	10.08	Average
15	2.309	41.14	-14.86	56.00	31.20	-0.12	10.06	QP
16	2.309	30.14	-15.86	46.00	20.20	-0.12	10.06	Average
17	2.678	41.13	-14.87	56.00	31.20	-0.13	10.06	QP
18	2.678	30.13	-15.87	46.00	20.20	-0.13	10.06	Average
19	3.740	41.44	-14.56	56.00	31.50	-0.12	10.06	QP
20	3.740	30.54	-15.46	46.00	20.60	-0.12	10.06	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



## Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Koi Ji	Relative Humidity :	41 ~ 42 %
		Temperature :	22 ~ 23 °C

## Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Modulation	Channel	Frequency	Data Rate	Remark
Mode 1	2400-2483.5	Bluetooth BR_GFSK	00	2402	1Mbps	-
Mode 2	2400-2483.5	Bluetooth BR_GFSK	39	2441	1Mbps	-
Mode 3	2400-2483.5	Bluetooth BR_GFSK	78	2480	1Mbps	-
Mode 4	2400-2483.5	Bluetooth BR_GFSK	00	2402	1Mbps	LF

### Co-location

Mode	Band (MHz)	Modulation	Channel	Frequency	Data Rate	Remark
Mode 5	2400-2483.5	Bluetooth BR_GFSK	00	2402	1Mbps	-
	2400-2483.5	Bluetooth-LE	00	2402	1Mbps	-
	2400-2483.5	Zigbee	26	2480	250Kbps	-



## Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth BR_GFSK	00	2356.02	58.08	74.00	-15.92	H	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	00	4804.00	39.67	74.00	-34.33	V	PEAK	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
	Bluetooth BR_GFSK	39	7323.00	42.13	74.00	-31.87	V	PEAK	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2498.05	56.11	74.00	-17.89	V	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	78	7440.00	41.68	74.00	-32.32	V	PEAK	Pass	Harmonic
4	Bluetooth BR_GFSK	00	734.22	38.42	46.00	-7.58	H	PEAK	Pass	LF
5	Bluetooth BR_GFSK	00	2377.73	57.59	74.00	-16.41	V	Peak	Pass	Band Edge
	Bluetooth BR_GFSK	00	4804.00	52.46	74.00	-21.54	V	Peak	Pass	Harmonic
	Bluetooth-LE	00	2363.56	46.40	54.00	-7.6	H	Average	Pass	Band Edge
	Bluetooth-LE	00	4804.00	49.69	54.00	-4.31	H	Average	Pass	Harmonic
	Zigbee	26	2483.5	51.14	54.00	-2.86	H	Average	Pass	Band Edge
	Zigbee	26	4960.00	48.02	54.00	-5.98	H	Average	Pass	Harmonic





1

Mode

Band Edge

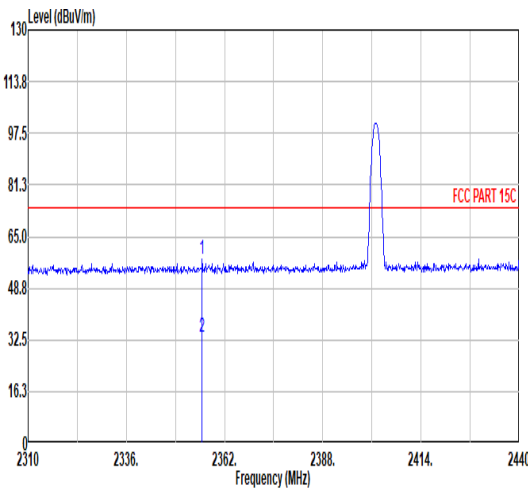
2400-2483.5\_Bluetooth BR\_GFSK\_CH00\_2402MHz

Pol.

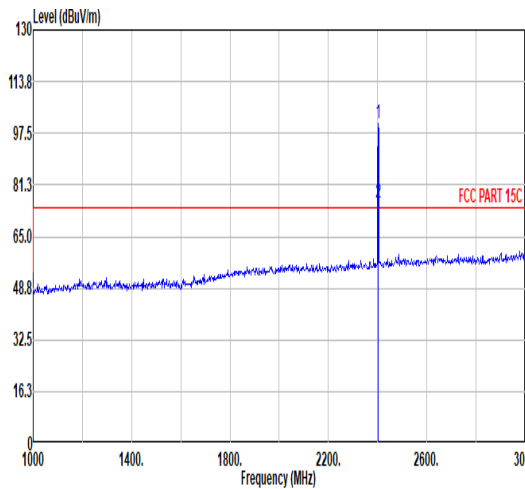
Horizontal

Fundamental

Peak

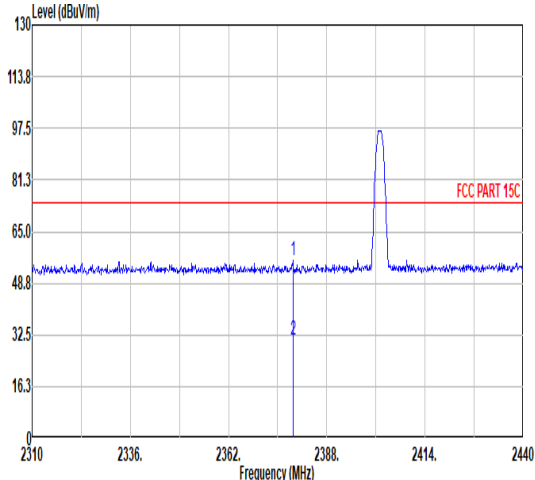
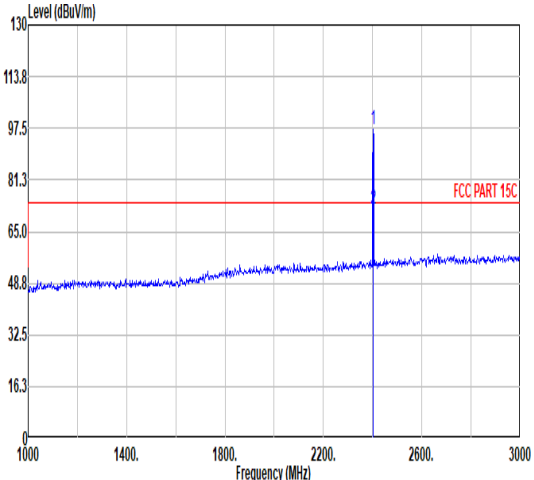


	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm
1	2356.02	58.08	74.00	-15.92	42.43	31.90	8.67	30.92	6.00
2	2356.02	33.23	54.00	-20.77	17.58	31.90	8.67	30.92	6.00

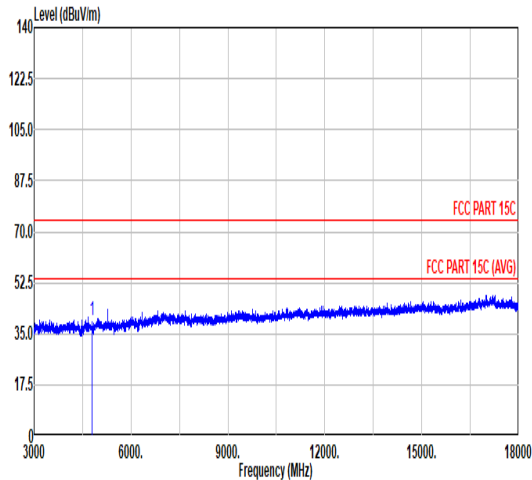
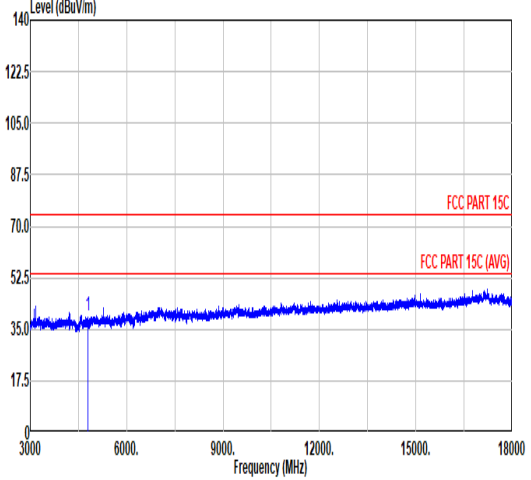


	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm
1	2402.00	100.59	74.00	26.59	84.65	32.00	8.81	30.87	6.00
2	2402.00	75.74	54.00	21.74	59.80	32.00	8.81	30.87	6.00

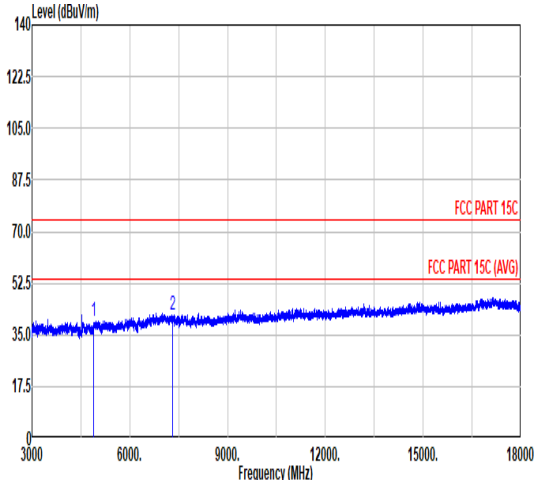
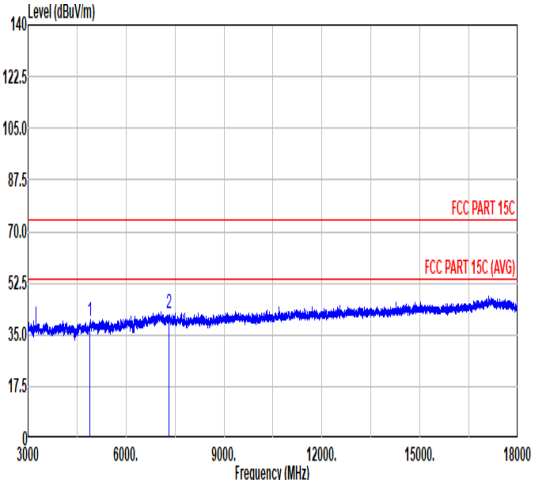


Mode	1																																																							
	Band Edge																																																							
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Pol.	Vertical																																																							
Peak																																																								
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		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																															
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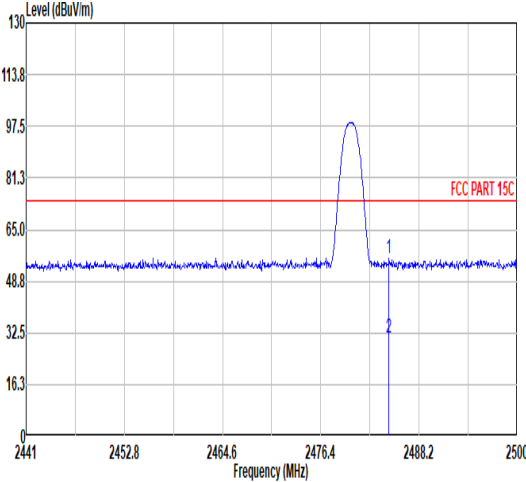
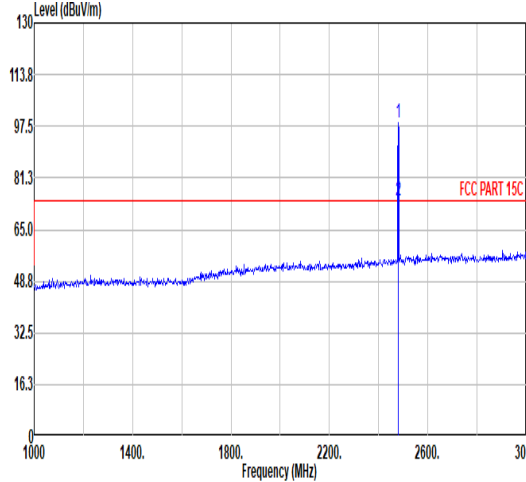


Mode	1																																																																																																		
	Harmonic																																																																																																		
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Pol.	Horizontal						Vertical																																																																																												
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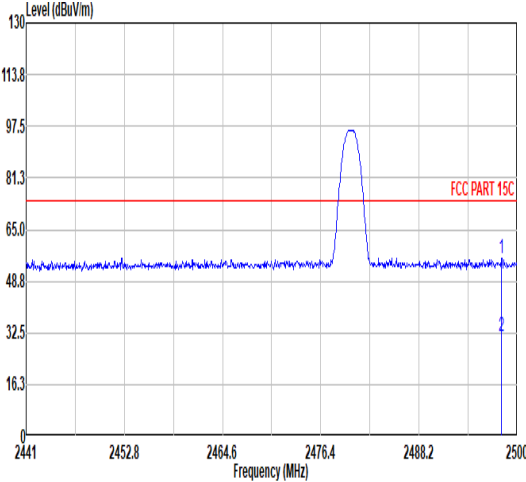
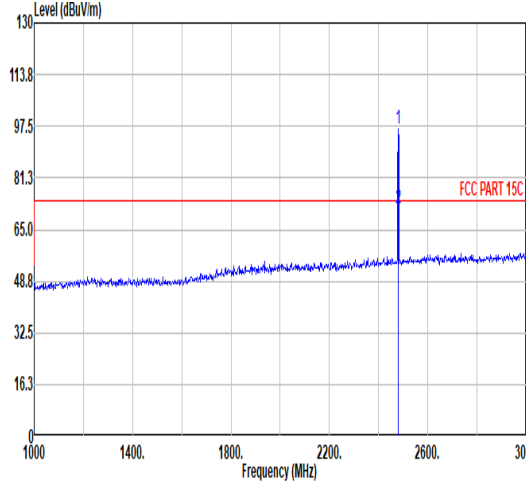


Mode	2																																																																																																																													
	Harmonic																																																																																																																													
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz																																																																																																																													
Pol.	Horizontal						Vertical																																																																																																																							
Peak  Avg																																																																																																																														
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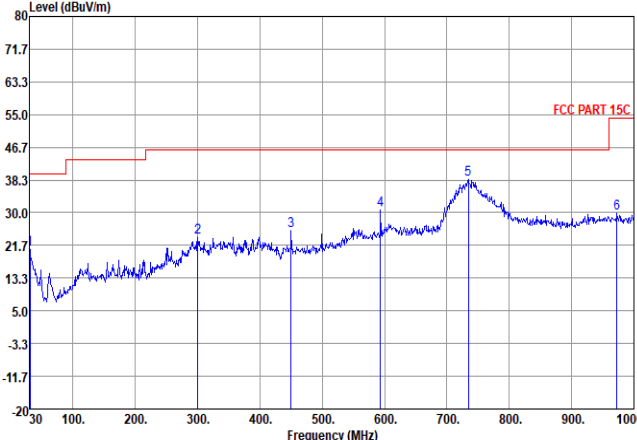
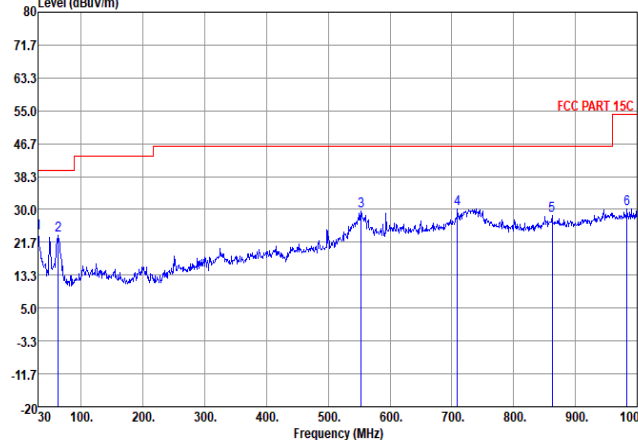
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Mode	18-25G	
	Emission above 18GHz	
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak		
Avg		





Mode	30M-1G																																																																																																																																																																																
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	<table><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit Line</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>30.97</td><td>20.65</td><td>-19.35</td><td>40.00</td><td>27.86</td><td>25.09</td><td>0.51</td><td>32.81</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>300.63</td><td>23.68</td><td>-22.32</td><td>46.00</td><td>34.79</td><td>19.35</td><td>2.54</td><td>33.00</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>450.01</td><td>25.35</td><td>-20.65</td><td>46.00</td><td>32.49</td><td>22.96</td><td>3.09</td><td>33.19</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>593.57</td><td>30.70</td><td>-15.30</td><td>46.00</td><td>34.40</td><td>26.04</td><td>3.55</td><td>33.29</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>734.22</td><td>38.42</td><td>-7.58</td><td>46.00</td><td>40.48</td><td>27.22</td><td>3.95</td><td>33.23</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>972.84</td><td>29.73</td><td>-24.27</td><td>54.00</td><td>26.63</td><td>30.18</td><td>4.54</td><td>31.62</td><td>---</td><td>Peak</td></tr></table>		Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	30.97	20.65	-19.35	40.00	27.86	25.09	0.51	32.81	---	Peak	2	300.63	23.68	-22.32	46.00	34.79	19.35	2.54	33.00	---	Peak	3	450.01	25.35	-20.65	46.00	32.49	22.96	3.09	33.19	---	Peak	4	593.57	30.70	-15.30	46.00	34.40	26.04	3.55	33.29	---	Peak	5	734.22	38.42	-7.58	46.00	40.48	27.22	3.95	33.23	---	Peak	6	972.84	29.73	-24.27	54.00	26.63	30.18	4.54	31.62	---	Peak	<table><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit Line</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>30.00</td><td>24.14</td><td>-15.86</td><td>40.00</td><td>30.70</td><td>25.74</td><td>0.50</td><td>32.00</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>62.98</td><td>23.33</td><td>-16.67</td><td>40.00</td><td>42.13</td><td>13.18</td><td>0.95</td><td>32.93</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>552.83</td><td>29.55</td><td>-16.45</td><td>46.00</td><td>34.30</td><td>25.17</td><td>3.42</td><td>33.34</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>709.00</td><td>30.22</td><td>-15.78</td><td>46.00</td><td>32.82</td><td>26.85</td><td>3.89</td><td>33.34</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>862.26</td><td>28.49</td><td>-17.51</td><td>46.00</td><td>28.11</td><td>28.75</td><td>4.27</td><td>32.64</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>983.51</td><td>30.21</td><td>-23.79</td><td>54.00</td><td>26.83</td><td>30.34</td><td>4.56</td><td>31.52</td><td>---</td><td>Peak</td></tr></table>		Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	30.00	24.14	-15.86	40.00	30.70	25.74	0.50	32.00	---	Peak	2	62.98	23.33	-16.67	40.00	42.13	13.18	0.95	32.93	---	Peak	3	552.83	29.55	-16.45	46.00	34.30	25.17	3.42	33.34	---	Peak	4	709.00	30.22	-15.78	46.00	32.82	26.85	3.89	33.34	---	Peak	5	862.26	28.49	-17.51	46.00	28.11	28.75	4.27	32.64	---	Peak	6	983.51	30.21	-23.79	54.00	26.83	30.34	4.56	31.52	---
	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																																																																																							
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5	862.26	28.49	-17.51	46.00	28.11	28.75	4.27	32.64	---	Peak																																																																																																																																																																							
6	983.51	30.21	-23.79	54.00	26.83	30.34	4.56	31.52	---	Peak																																																																																																																																																																							



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Mode

Band Edge - L

2400-2483.5\_Bluetooth BR\_GFSK\_CH00\_2402MHz

Pol.

Horizontal

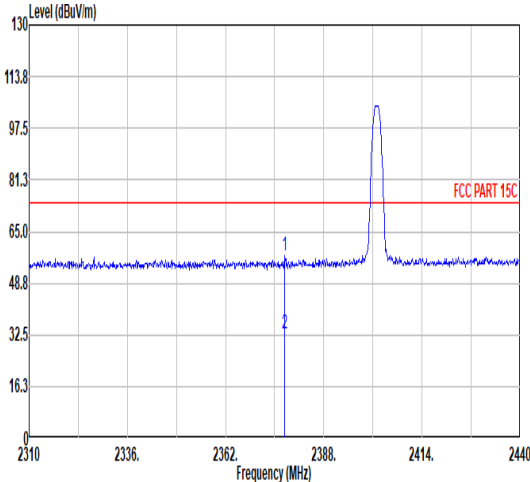
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Peak

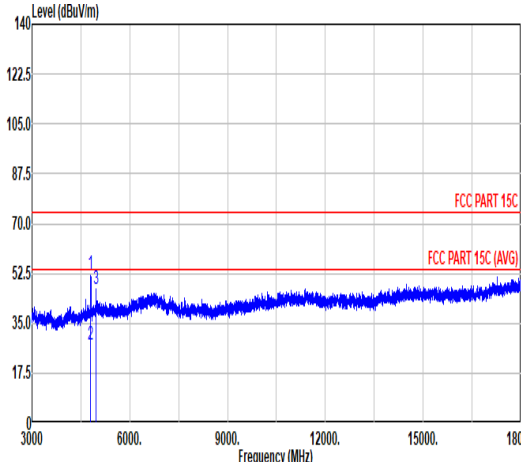
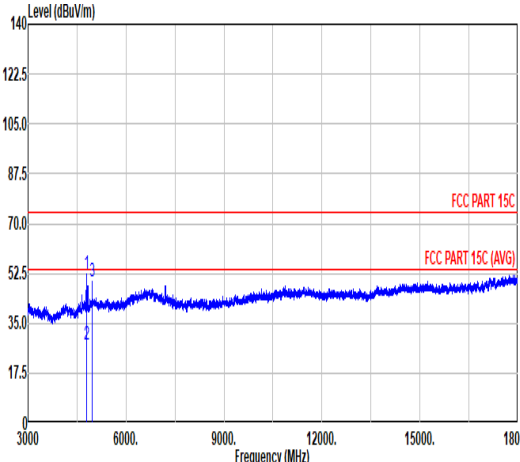
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Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Factor	Factor	Factor	Factor	Factor	Factor	Factor	Factor	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	dB	dB	dB	dB	dB	dB	cm	deg		
1	2317.80	57.09	74.00	-16.91	41.59	31.59	8.89	30.98	6.00	313	237	PEAK						
2	2317.80	32.24	54.00	-21.76	16.74	31.59	8.89	30.98	6.00	313	237	AVERAGE						

		Limit		Read		Ant		Cable		Preamp		Aux		APos		TPos		Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Factor	Factor	Factor	Factor	Factor	Factor	Factor	Factor	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	dB	dB	dB	dB	dB	dB	cm	deg		
1	2402.00	104.03	74.00	30.03	88.08	31.92	8.97	30.94	6.00	313	237	Peak						
2	2402.00	79.18	74.00	5.18	63.23	31.92	8.97	30.94	6.00	313	237	Average						
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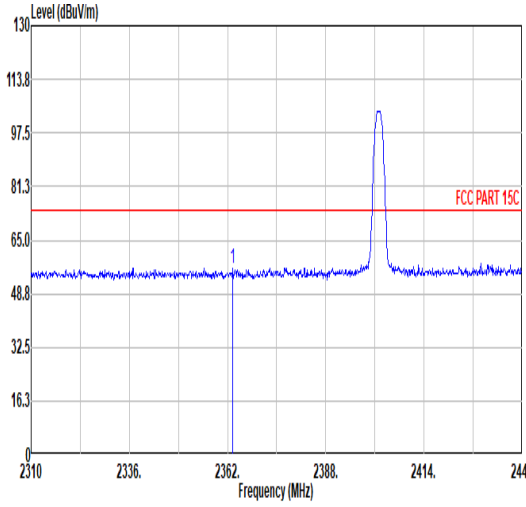
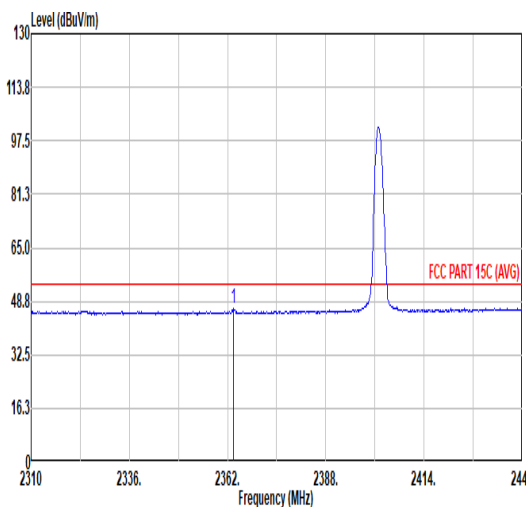
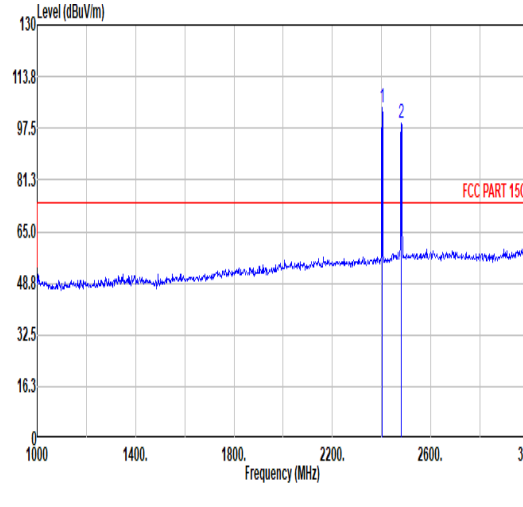
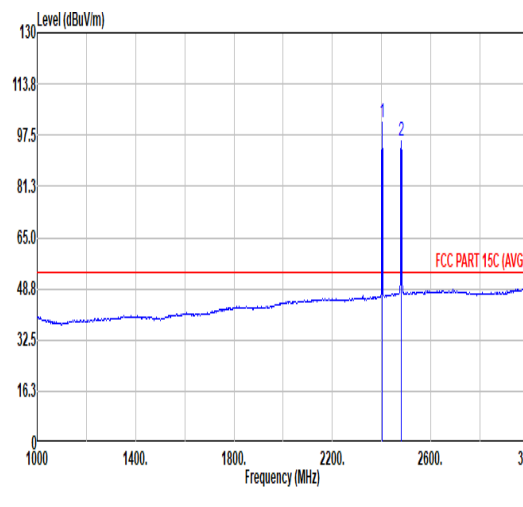


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1	2377.73	57.59	74.00	-16.41	41.92	31.68	8.94	30.95	6.00	266	54 PEAK																																																																				
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1	2402.00	104.75	74.00	30.75	88.00	31.92	8.97	30.94	6.00	266	54 Peak																																																																				
2	2402.00	79.90	74.00	5.90	63.95	31.92	8.97	30.94	6.00	266	54 Average																																																																				
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Mode	5																																																																																																																																																						
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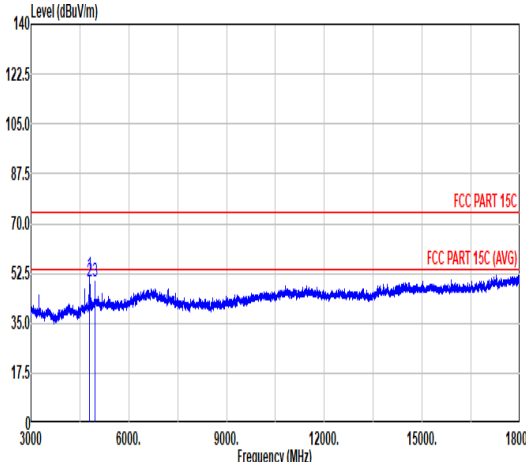
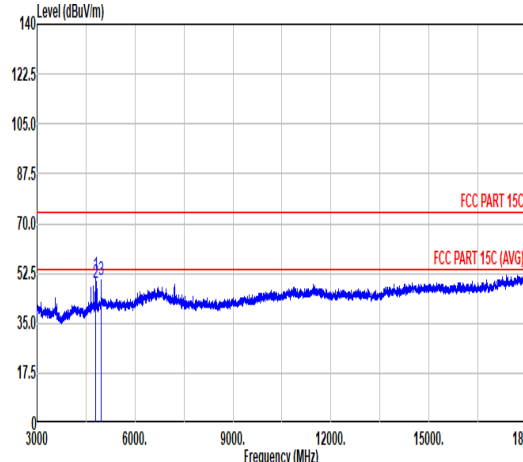


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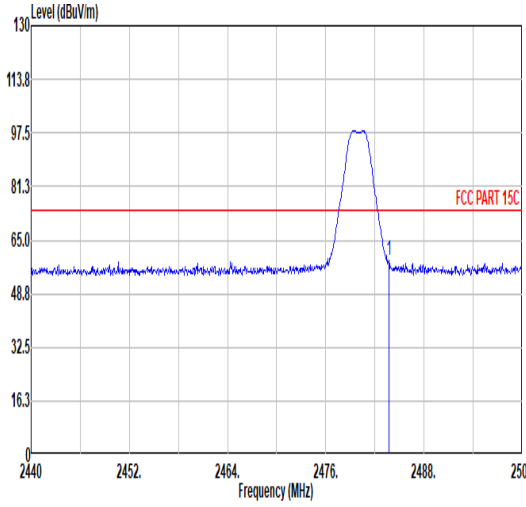
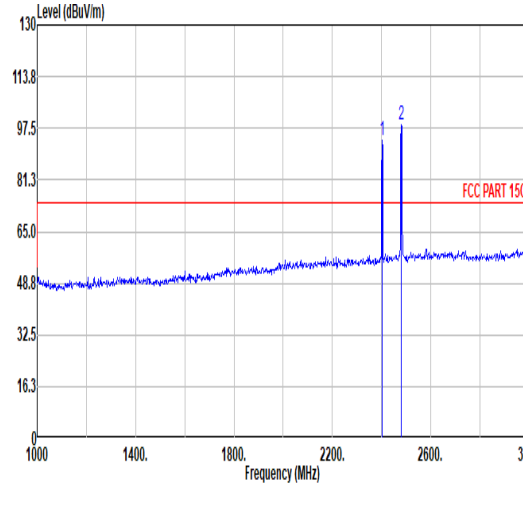
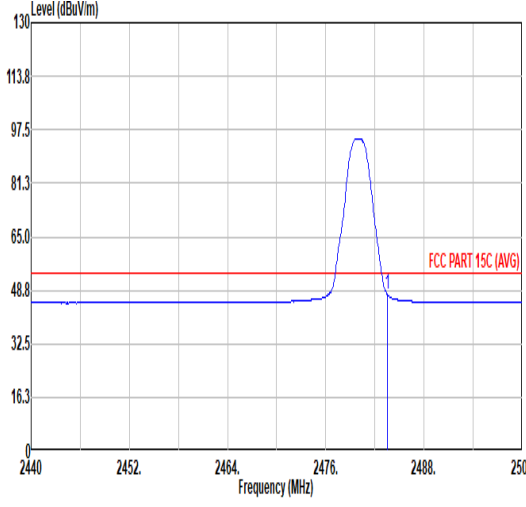
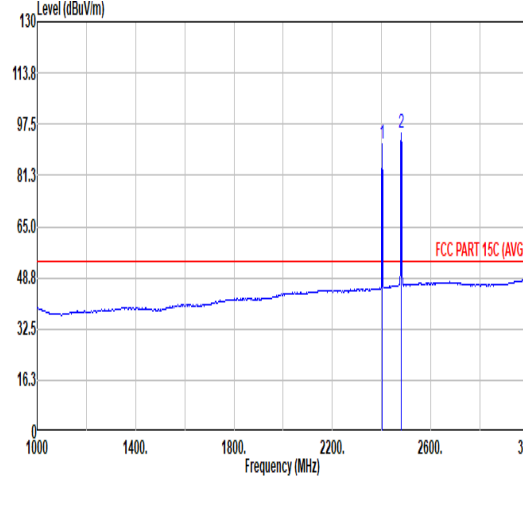
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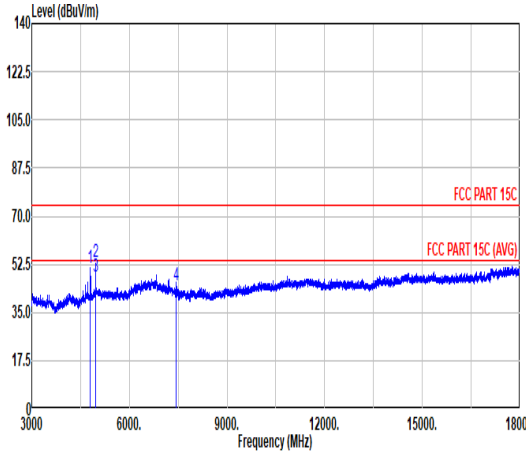
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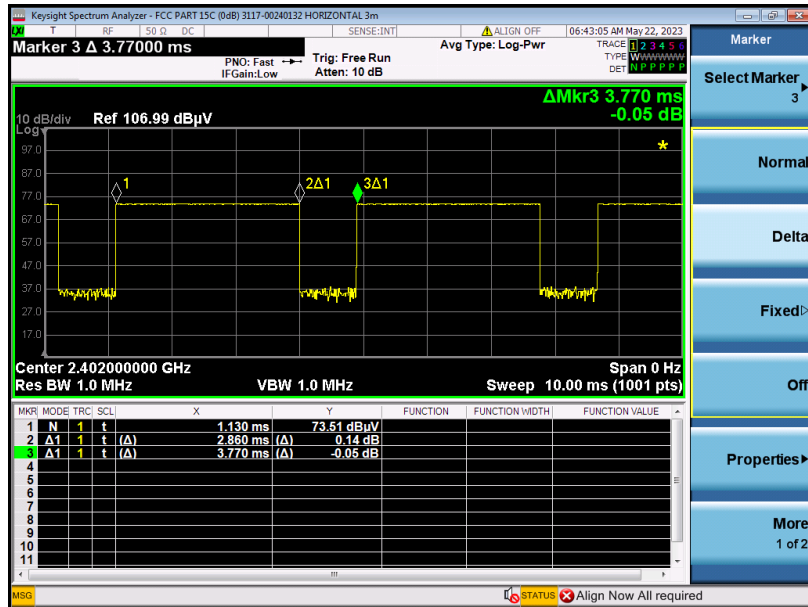
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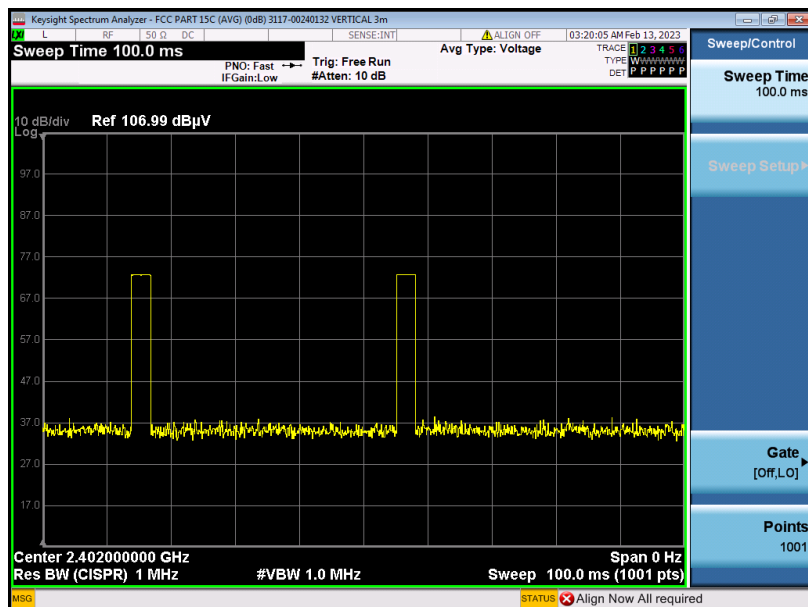
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## Appendix D. Duty Cycle Plots

### 3DH5 on time (One Pulse) Plot on Channel 39



### 3DH5 on time (Count Pulses) Plot on Channel 39



#### Note:

1. Worst case Duty cycle = on time/100 milliseconds =  $2 * 2.86 / 100 = 5.72 \%$
2. Worst case Duty cycle correction factor =  $20 * \log(\text{Duty cycle}) = -24.85 \text{ dB}$
3. 3DH5 has the highest duty cycle worst case and is reported.