



Report No.: TW2310101E

Applicant: Shenzhen Xinrui Weiye Electronics Co., Ltd.

Product: 2.4G Remote control

Model No.: XR24-02

Trademark: N/A

Test Standards: FCC Part 15.247

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

*Terry Tang*

Terry Tang

Manager

Dated: October 17, 2023

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TESTING LABORATORIES**

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



### **Special Statement:**

The testing quality ability of our laboratory meet with “Quality Law of People’s Republic of China” Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

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

#### **CNAL-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

#### **FCC-Registration No.: 744189**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

#### **Industry Canada (IC) —Registration No.:5205A**

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

#### **A2LA (Certification Number:5013.01)**

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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## Test Report Conclusion

### Content

<b>1.0</b>	<b>General Details</b>	4
1.1	Test Lab Details	4
1.2	Applicant Details	4
1.3	Description of EUT	4
1.4	Submitted Sample	4
1.5	Test Duration	5
1.6	Test Uncertainty	5
1.7	Test By	5
<b>2.0</b>	<b>List of Measurement Equipment</b>	6
<b>3.0</b>	<b>Technical Details</b>	7
3.1	Summary of Test Results	7
3.2	Test Standards	7
<b>4.0</b>	<b>EUT Modification</b>	7
<b>5.0</b>	<b>Power Line Conducted Emission Test</b>	8
5.1	Schematics of the Test	8
5.2	Test Method and Test Procedure	8
5.3	Configuration of the EUT	8
<b>5.4</b>	<b>EUT Operating Condition</b>	9
<b>5.5</b>	<b>Conducted Emission Limit</b>	9
<b>5.6</b>	<b>Test Result</b>	9
<b>6.0</b>	<b>Radiated Emission test</b>	12
6.1	Test Method and Test Procedure	12
6.2	Configuration of the EUT	13
6.3	EUT Operation Condition	13
6.4	Radiated Emission Limit	13
7.0	6dB Bandwidth Measurement Bandwidth	23
8.0	Maximum Peak Output Power	28
9.0	Power Spectral Density Measurement	30
10.0	Out of Band Measurement	35
11.0	Antenna Requirement	42
12.0	FCC ID Label	43
13.0	Photo of Test Setup and EUT View	44

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## 1.0 General Details

### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.  
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China  
Telephone: (755) 83448688  
Fax: (755) 83442996

### 1.2 Applicant Details

Applicant: Shenzhen Xinrui Weiye Electronics Co., Ltd.  
Address: 301, Building B, No. 163, Huawang Road, Langkou Community, Dalang Street, Longhua District, Shenzhen  
Telephone: 0755-21019656  
Fax: 0755-21019656

### 1.3 Description of EUT

Product: 2.4G Remote control  
Manufacturer: Shenzhen Xinrui Weiye Electronics Co., Ltd.  
Address: 301, Building B, No. 163, Huawang Road, Langkou Community, Dalang Street, Longhua District, Shenzhen  
Trademark: N/A  
Additional Trademark: N/A  
Model Number: XR24-02  
Additional Model Number: N/A  
Hardware Version: 2.4G-V01  
Software Version: TX\_V01  
Serial No.: 20230910001TX  
Type of Modulation: GFSK  
Frequency range: 2402-2480MHz (Bluetooth Low Energy)  
Channel Separation: 2MHz  
Channel Number: 40MHz  
Input Voltage: DC3.0V, 0.018A (1pc CR2032 button battery)

### 1.4 Submitted Sample: 4 Samples

### 1.5 Test Duration

2023-10-10 to 2023-10-17

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Note: The measurement uncertainty is for coverage factor of  $k=2$  and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

*Andy Xing*

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100253	2023-07-14	2024-07-13
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2023-07-14	2024-07-13
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2023-07-14	2024-07-13
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2024-07-17
Power meter	Anritsu	ML2487A	6K00003613	2023-07-14	2024-07-13
Power sensor	Anritsu	MA2491A	32263	2023-07-14	2024-07-13
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic	--	--	N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2023-07-14	2024-07-13
EMI Test Receiver	RS	ESCS 30	834115/006	2023-07-14	2024-07-13
Spectrum	HP/Agilent	E4407B	MY50441392	2023-07-14	2024-07-13
Spectrum	RS	FSP	1164.4391.38	2023-07-14	2024-07-13
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2023-07-14	2024-07-13
RF Cable	Zhengdi	7m	--	2023-07-14	2024-07-13
Pre-Amplifier	Schwarebeck	BBV9743	#218	2023-07-14	2024-07-13
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2023-07-14	2024-07-13
LISN	SCHAFFNER	NNB42	00012	2023-07-14	2024-07-13
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13

## 2.2 Automation Test Software

### For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

### For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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### 3.0 Technical Details

#### 3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	N/A	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	Pass	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	Pass	Complies
FCC Part 15, Paragraph 15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	Pass	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	Pass	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	Pass	Complies

#### 3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

#### 4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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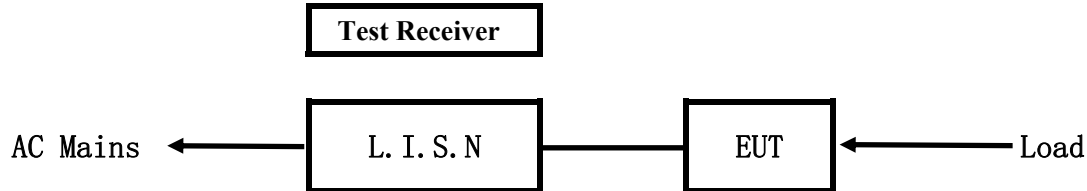
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## 5.0 Power Line Conducted Emission Test

### 5.1 Schematics of the test



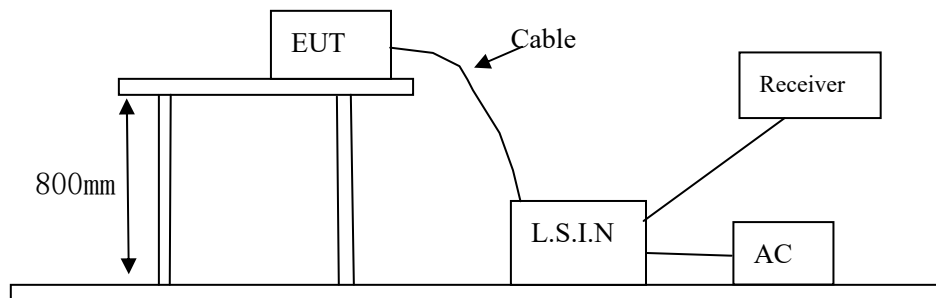
EUT: Equipment Under Test

### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



### 5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

#### A. EUT

Device	Manufacturer	Model	FCC ID
2.4G Remote control	Shenzhen Xinrui Weiye Electronics Co., Ltd.	XR24-02	2BCTA-YKQ24

#### B. Internal Device

Device	Manufacturer	Model	Rating

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C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	4 .0
5.00 ~ 30.00	60.0	50.0

- Notes: 1. \*Decreasing linearly with logarithm of frequency.  
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

N/A

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

**Note: EUT powered by button battery, this test item not applicable.**

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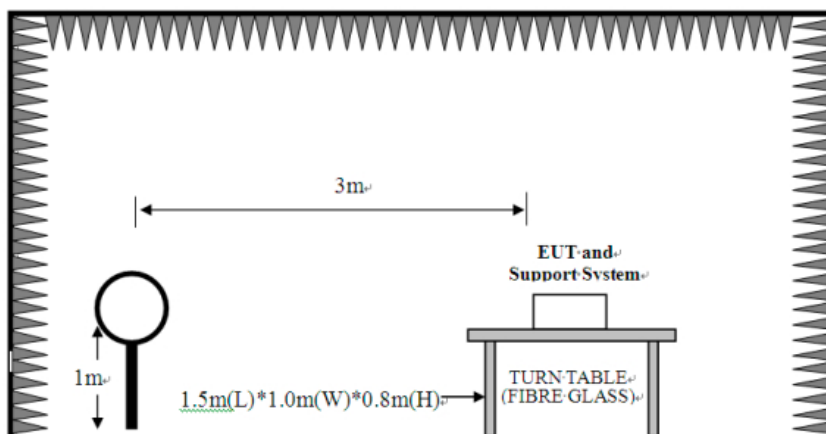
## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a “QP” in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

### Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



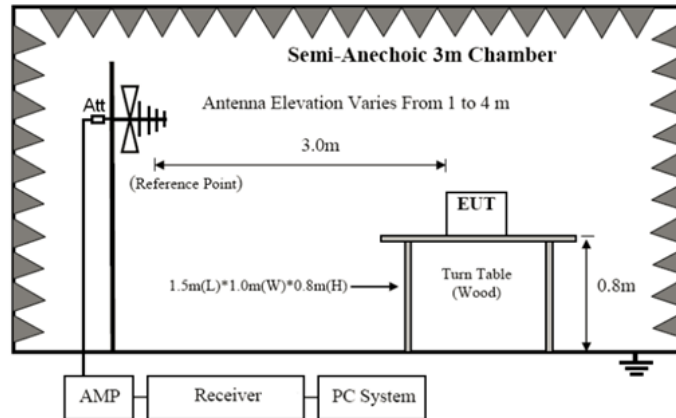
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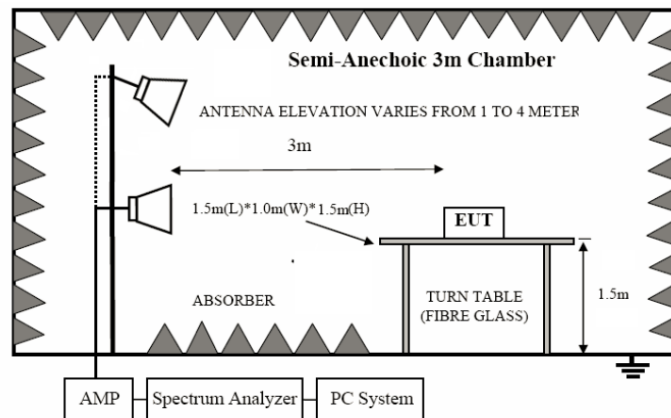
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For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



## 6.2 Configuration of the EUT

Same as section 5.3 of this report

## 6.3 EUT Operating Condition

Same as section 5.4 of this report.

## 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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**Frequencies in restricted band are complied to limit on Paragraph 15.209**

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage ( $\mu$ V)
  2. In the Above Table, the higher limit applies at the band edges.
  3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
  4. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
  5. New Battery was used during the test.



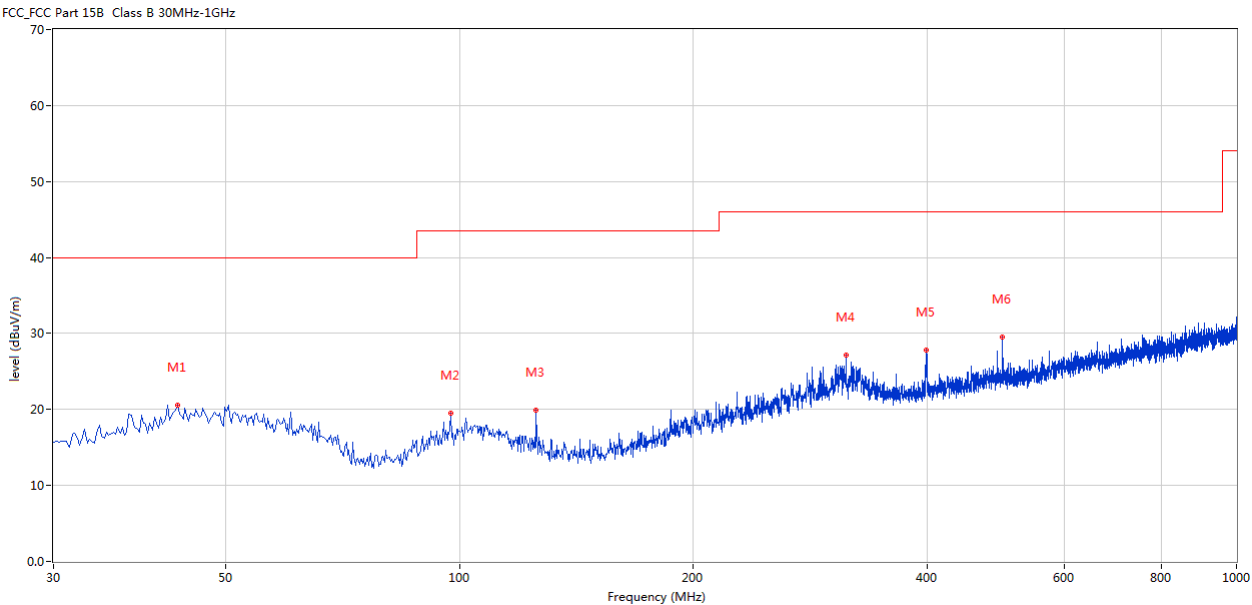
Test result  
General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition:     Keep Bluetooth Transmitting

Results:                Pass

Test Figure:



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	43.334	20.53	-11.49	40.0	-19.47	Peak	142.00	100	Horizontal	Pass
2	97.398	19.55	-13.85	43.5	-23.95	Peak	50.00	100	Horizontal	Pass
3	125.521	19.94	-16.40	43.5	-23.56	Peak	233.00	100	Horizontal	Pass
4	314.381	27.13	-10.85	46.0	-18.87	Peak	257.00	100	Horizontal	Pass
5	398.993	27.88	-8.62	46.0	-18.12	Peak	166.00	100	Horizontal	Pass
6	499.848	29.52	-6.90	46.0	-16.48	Peak	299.00	100	Horizontal	Pass

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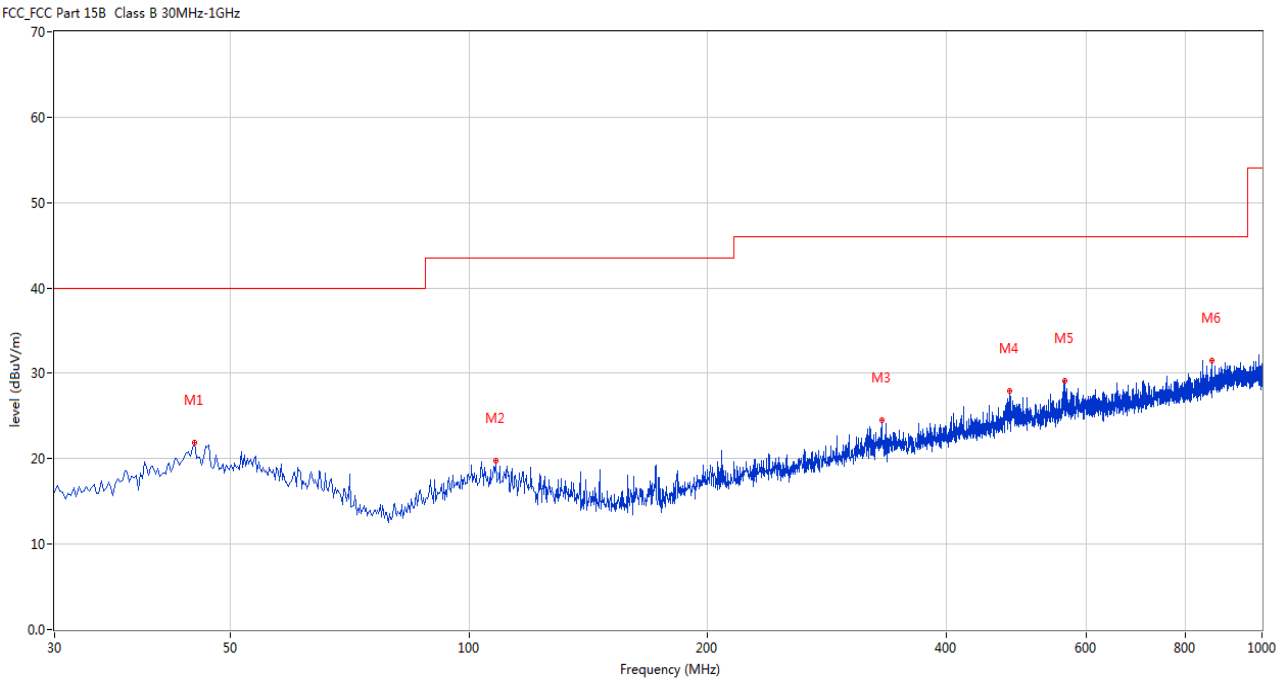
Test result  
General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition:       **Keep Transmitting**

**Results:**                   **Pass**

Test Figure:



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	45.031	21.94	-11.41	40.0	-18.06	Peak	276.00	100	Vertical	Pass
2	108.065	19.73	-13.42	43.5	-23.77	Peak	46.00	100	Vertical	Pass
3	331.837	24.54	-10.12	46.0	-21.46	Peak	360.00	100	Vertical	Pass
4	480.695	27.94	-7.37	46.0	-18.06	Peak	340.00	100	Vertical	Pass
5	563.367	29.19	-6.08	46.0	-16.81	Peak	0.00	100	Vertical	Pass
6	864.961	31.50	-2.36	46.0	-14.50	Peak	190.00	100	Vertical	Pass

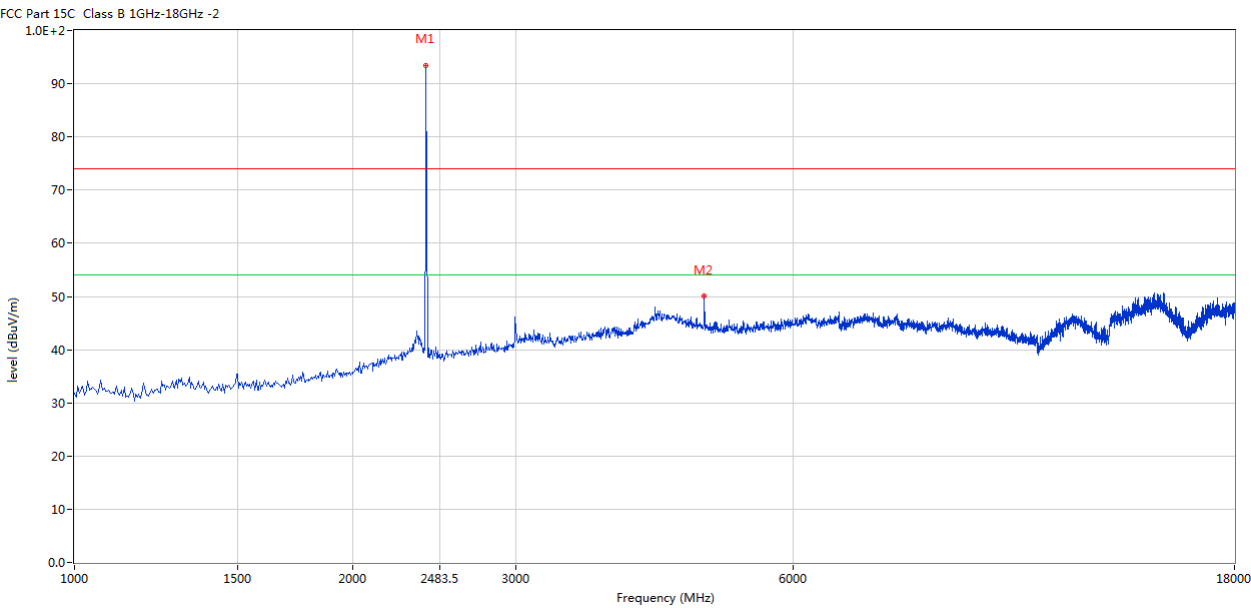
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Test Figures above 1GHz:

Please refer to the following test plots for details:

Low Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	93.49	-3.57	74.0	19.49	Peak	112.00	100	Horizontal	N/A
2	4802.799	50.01	3.12	74.0	-23.99	Peak	308.00	100	Horizontal	Pass

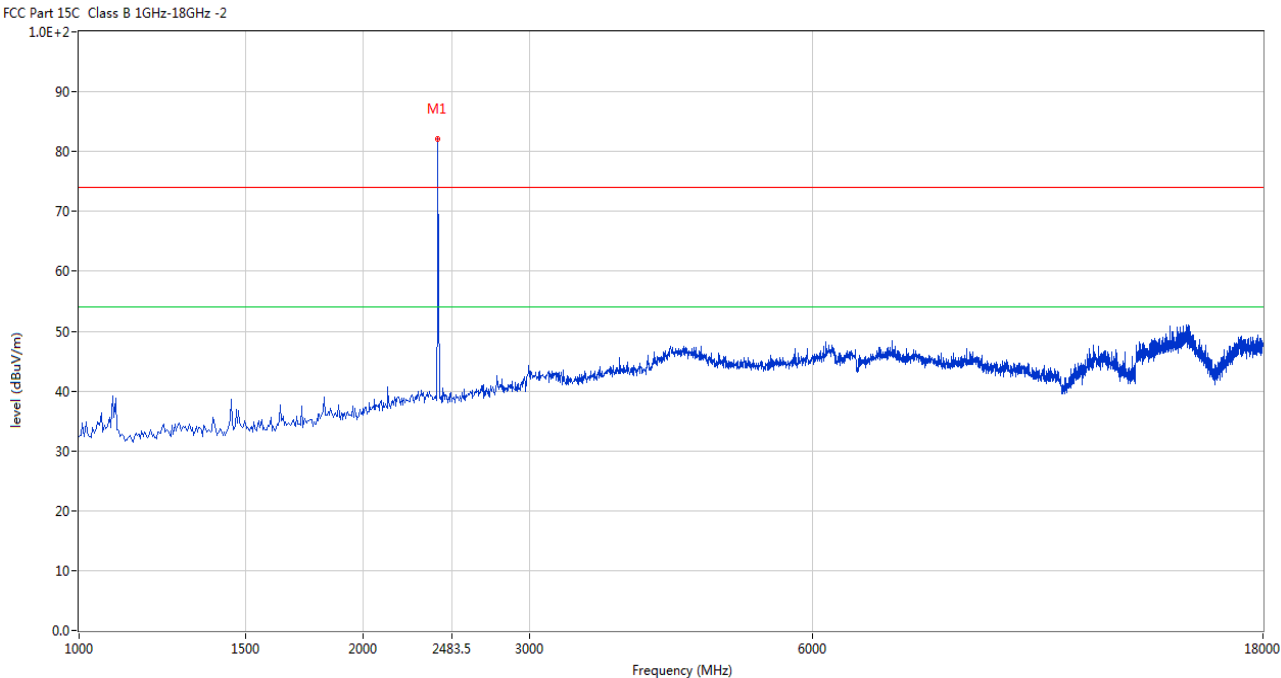
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Low Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	82.16	-3.57	74.0	8.16	Peak	34.00	100	Vertical	N/A

The report refers only to the sample tested and does not apply to the bulk.

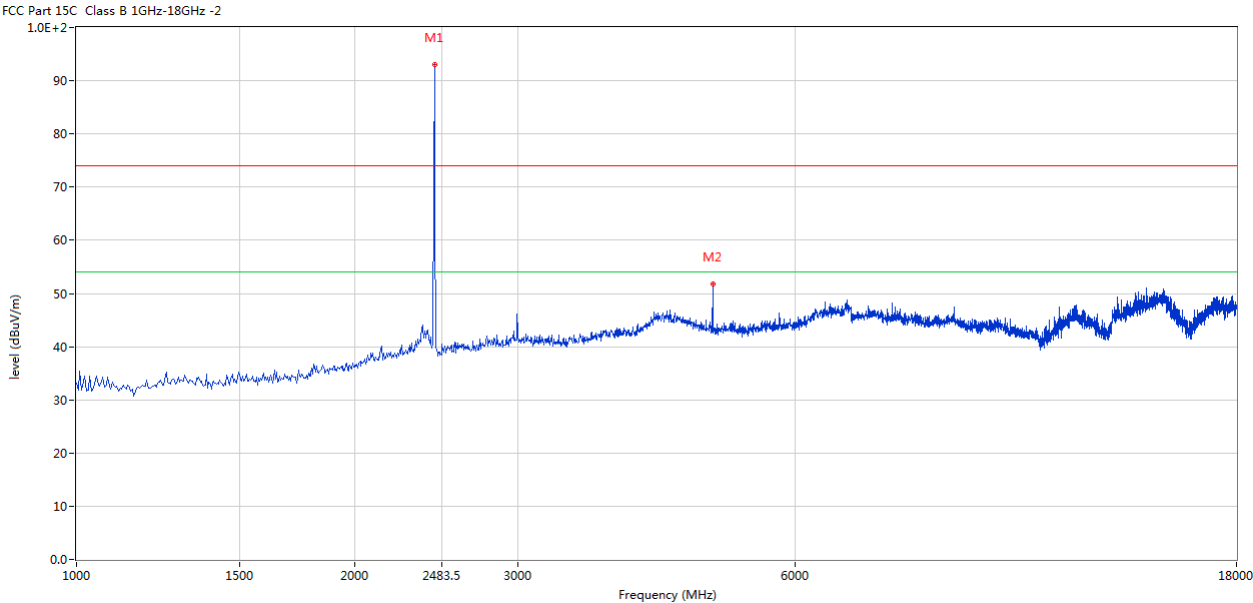
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Middle Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	93.09	-3.57	74.0	19.09	Peak	275.00	100	Horizontal	N/A
2	4879.280	51.88	3.20	74.0	-22.12	Peak	286.00	100	Horizontal	Pass

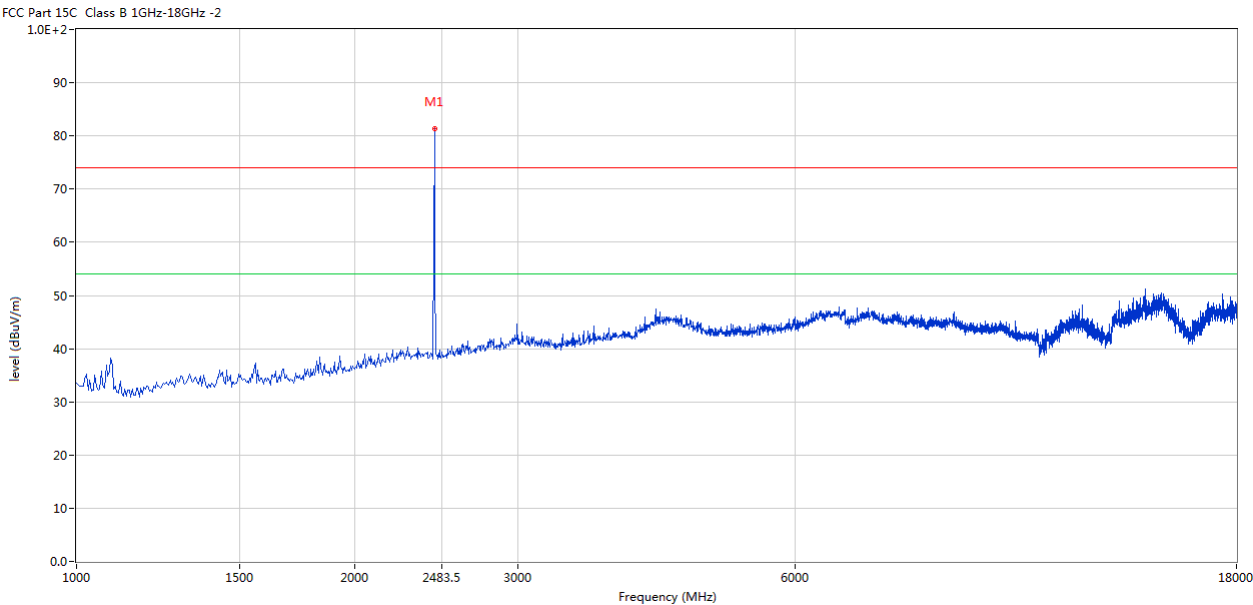
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Middle Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	81.38	-3.57	74.0	7.38	Peak	348.00	100	Vertical	N/A

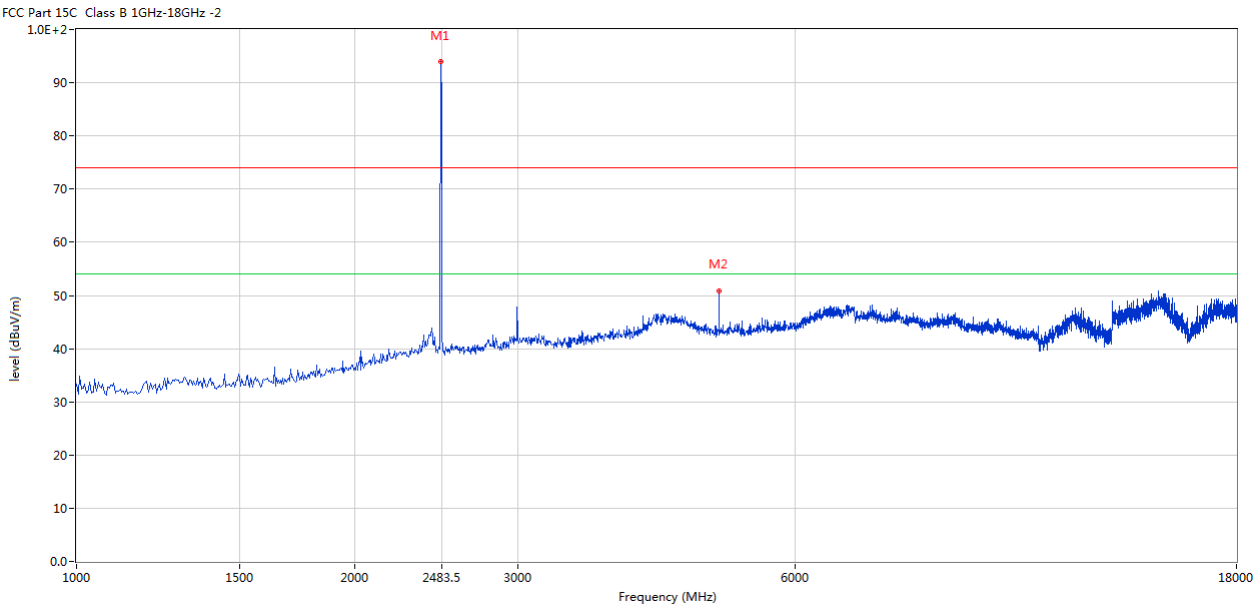
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High Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	93.91	-3.57	74.0	19.91	Peak	279.00	100	Horizontal	N/A
2	4960.010	50.85	3.36	74.0	-23.15	Peak	279.00	100	Horizontal	Pass

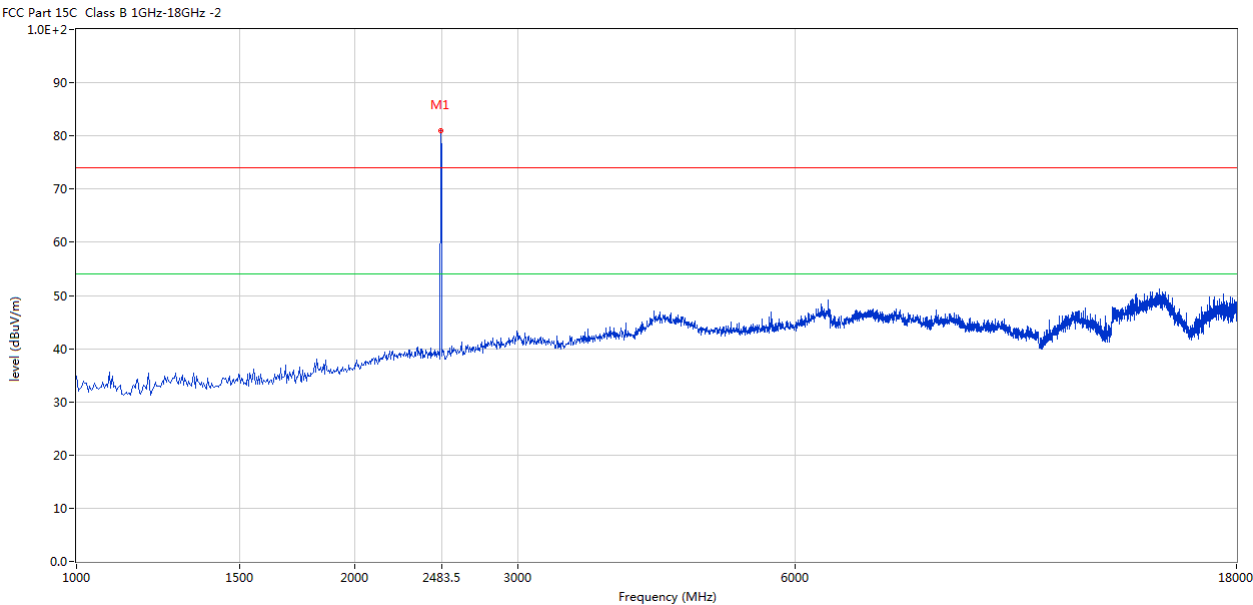
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High Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	80.96	-3.57	74.0	6.96	Peak	190.00	100	Vertical	N/A

- Note: 1. Level = Reading + AF + Cable - Preamp
2. For the radiated emissions above 18G, it is the floor noise.
3. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

The report refers only to the sample tested and does not apply to the bulk.

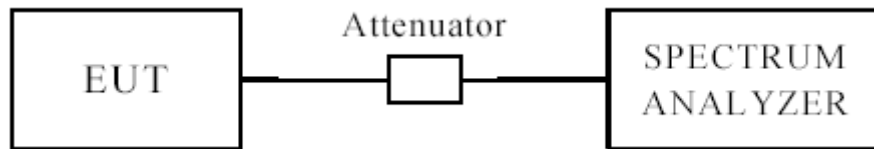
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## 7.0 6dB Bandwidth Measurement

### 7.1 Test Setup



### 7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

### 7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 7.4 Test Result

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EUT	2.4G Remote control		Model	XR24-02
Mode	Keep Transmitting		Input Voltage	DC3.0V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass/ Fail
Low	2402	739.48	500	Pass
Middle	2440	739.48	500	Pass
High	2480	721.44	500	Pass

The report refers only to the sample tested and does not apply to the bulk.

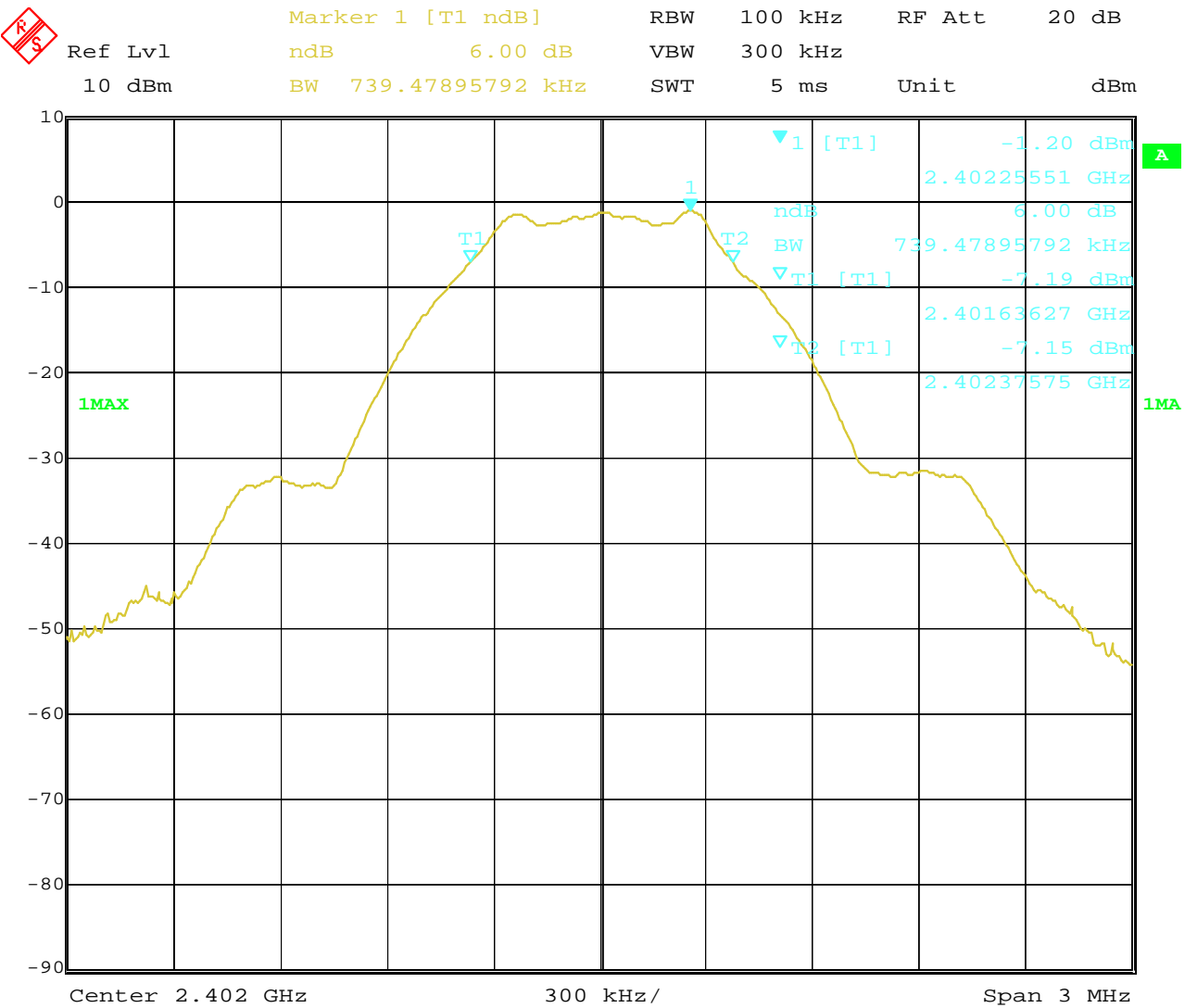
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Test Figure:

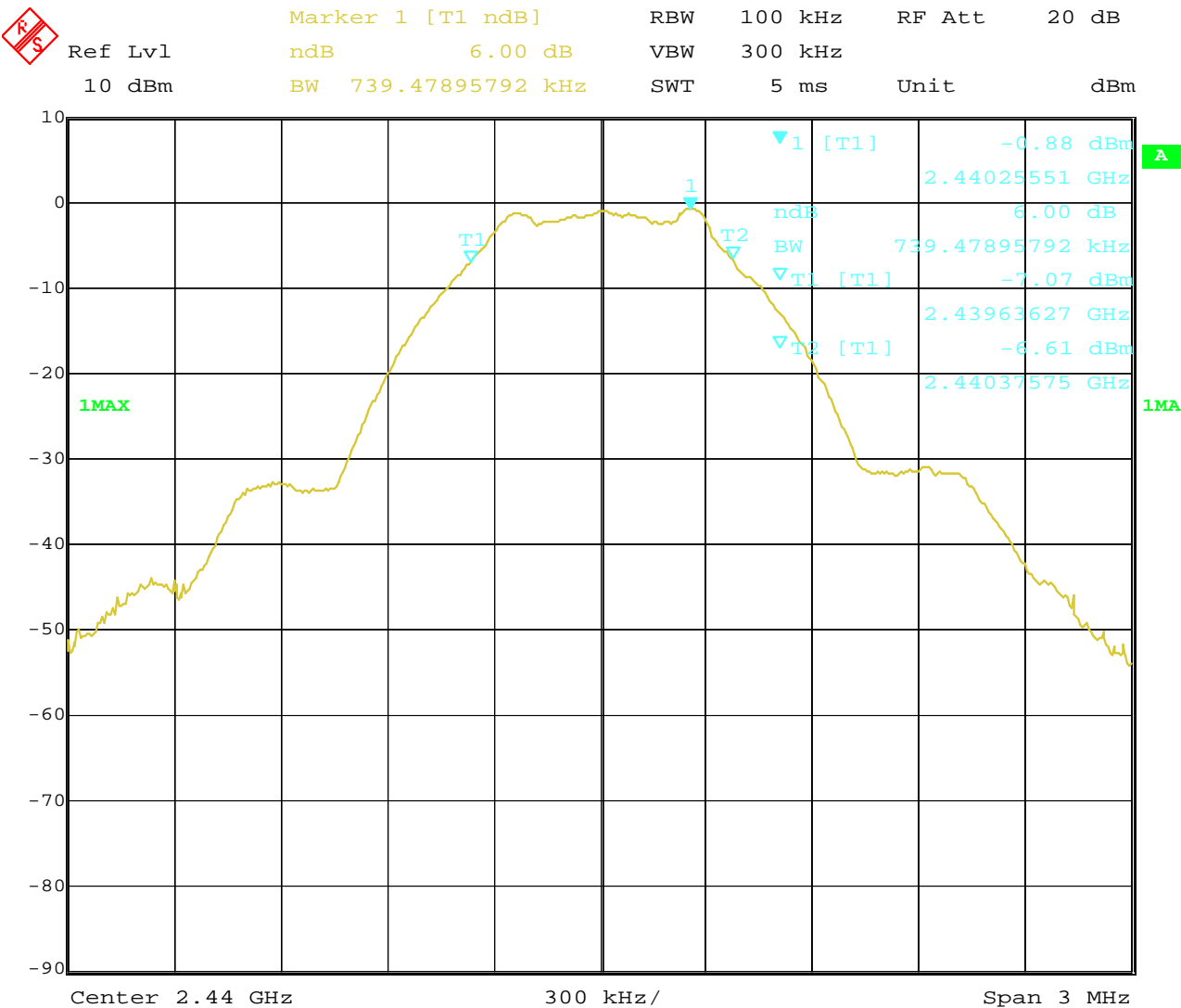
1. Condition: Low Channel



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2. Condition: Middle Channel



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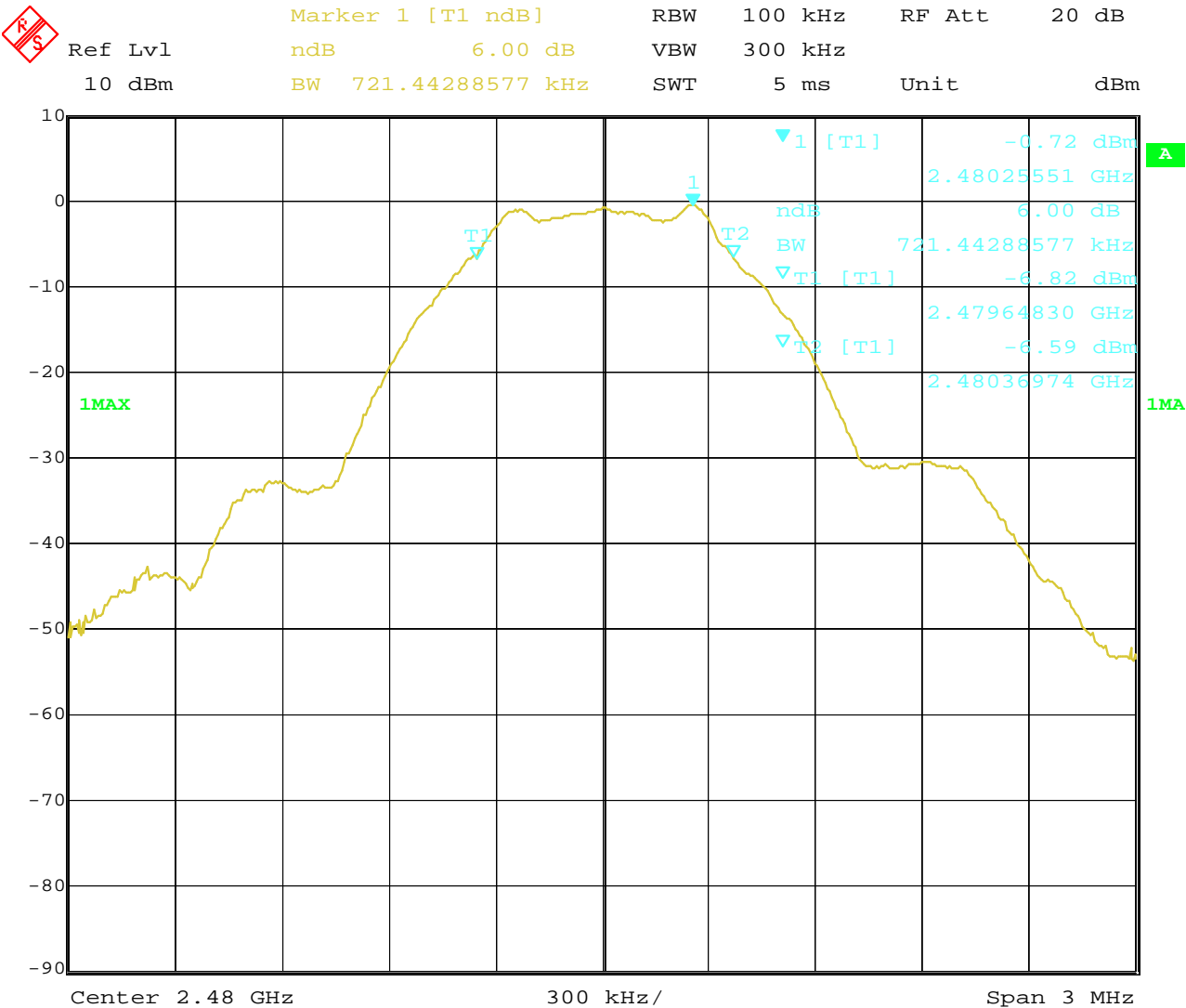
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3. High Channel



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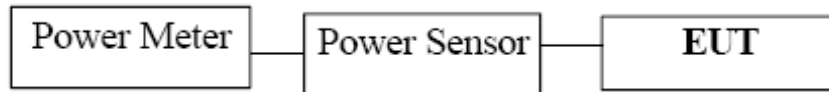
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## 8. Maximum Output Power

### 8.1 Test Setup



### 8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

### 8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

**Note: the Peak power were measured.**

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#### 8.4 Test Results

EUT		2.4G Remote control		Model		XR24-02	
Mode		Keep Transmitting		Input Voltage		DC3.0V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)			Peak Power Limit (dBm)	Pass/ Fail	
		Peak					
Low	2402	0.23			30	Pass	
Middle	2440	0.53			30	Pass	
High	2480	0.72			30	Pass	

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

The report refers only to the sample tested and does not apply to the bulk.

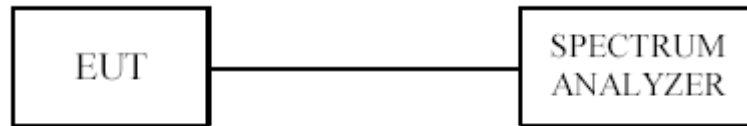
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## 9. Power Spectral Density Measurement

### 9.1 Test Setup



### 9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

### 9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 10 kHz.
3. Set the VBW  $\geq$  30 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be  $\leq$  8 dBm/3kHz.

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#### 9.4 Test Result

EUT	2.4G Remote control			Model	XR24-02
Mode	Keep Transmitting			Input Voltage	DC3.0V
Temperature	24 deg. C,			Humidity	56% RH
Channel	Peak Power Reading (dBm)	Cable Loss (dB)	Final Power Spectral Density (dBm/10kHz)	Maximum Limit (dBm/3kHz)	Pass/ Fail
Low	-10.36	0.2	-10.16	8	Pass
Middle	-10.04	0.2	-9.84	8	Pass
High	-9.73	0.2	-9.53	8	Pass

Note: The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss}$$

The report refers only to the sample tested and does not apply to the bulk.

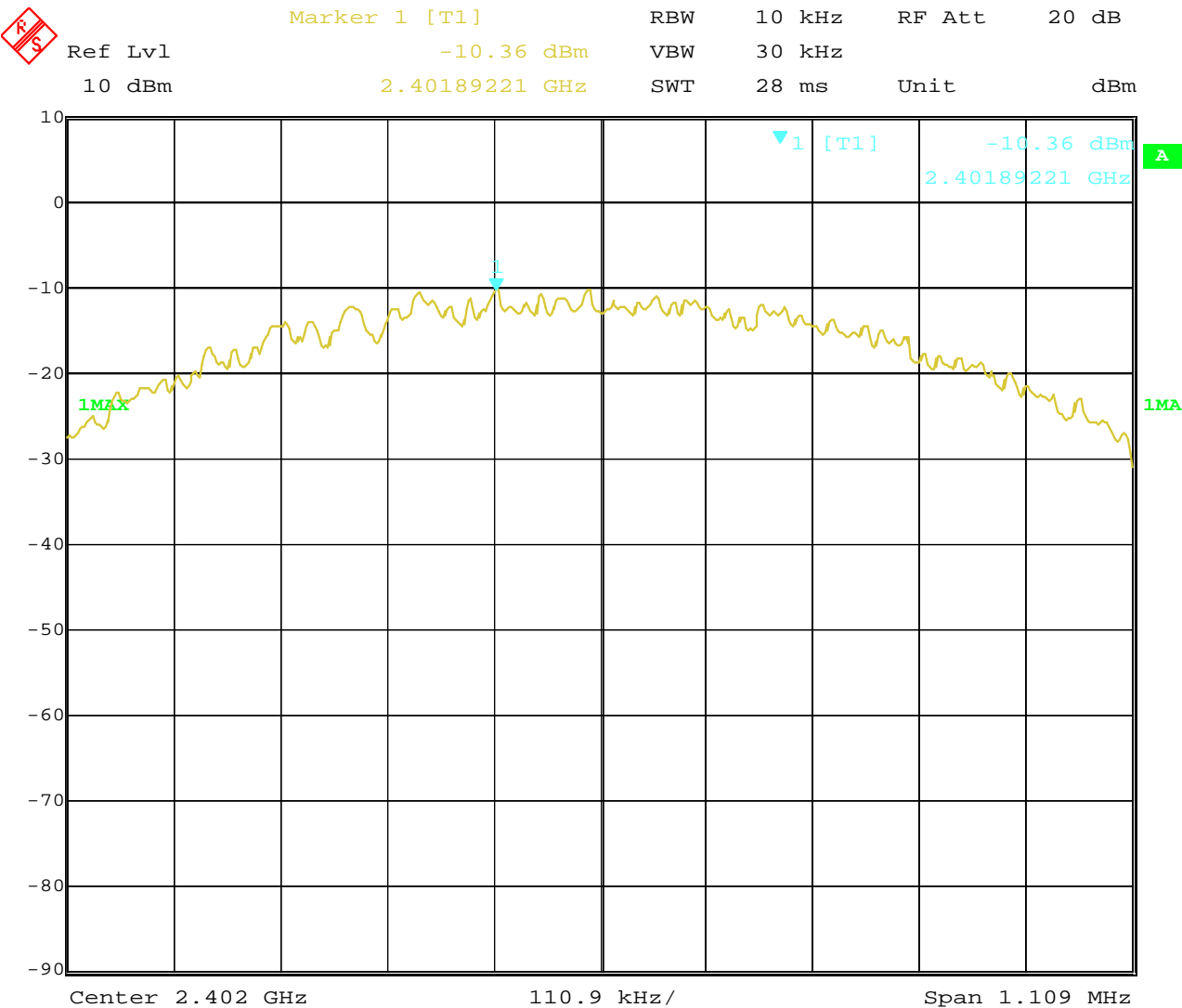
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Test Figure:

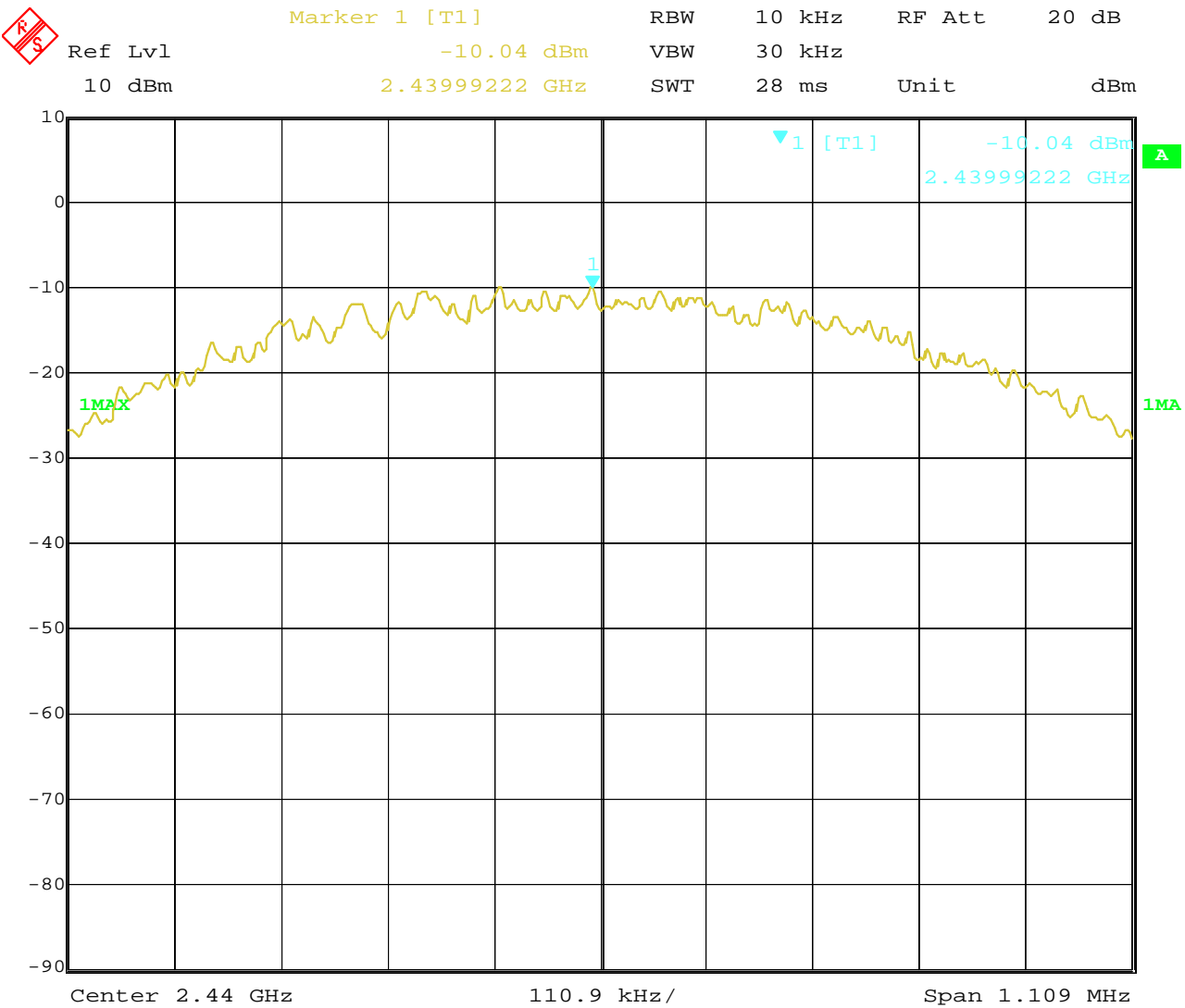
1. Condition: Low Channel



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2. Condition: Middle Channel



Center 2.44 GHz

110.9 kHz/

Span 1.109 MHz

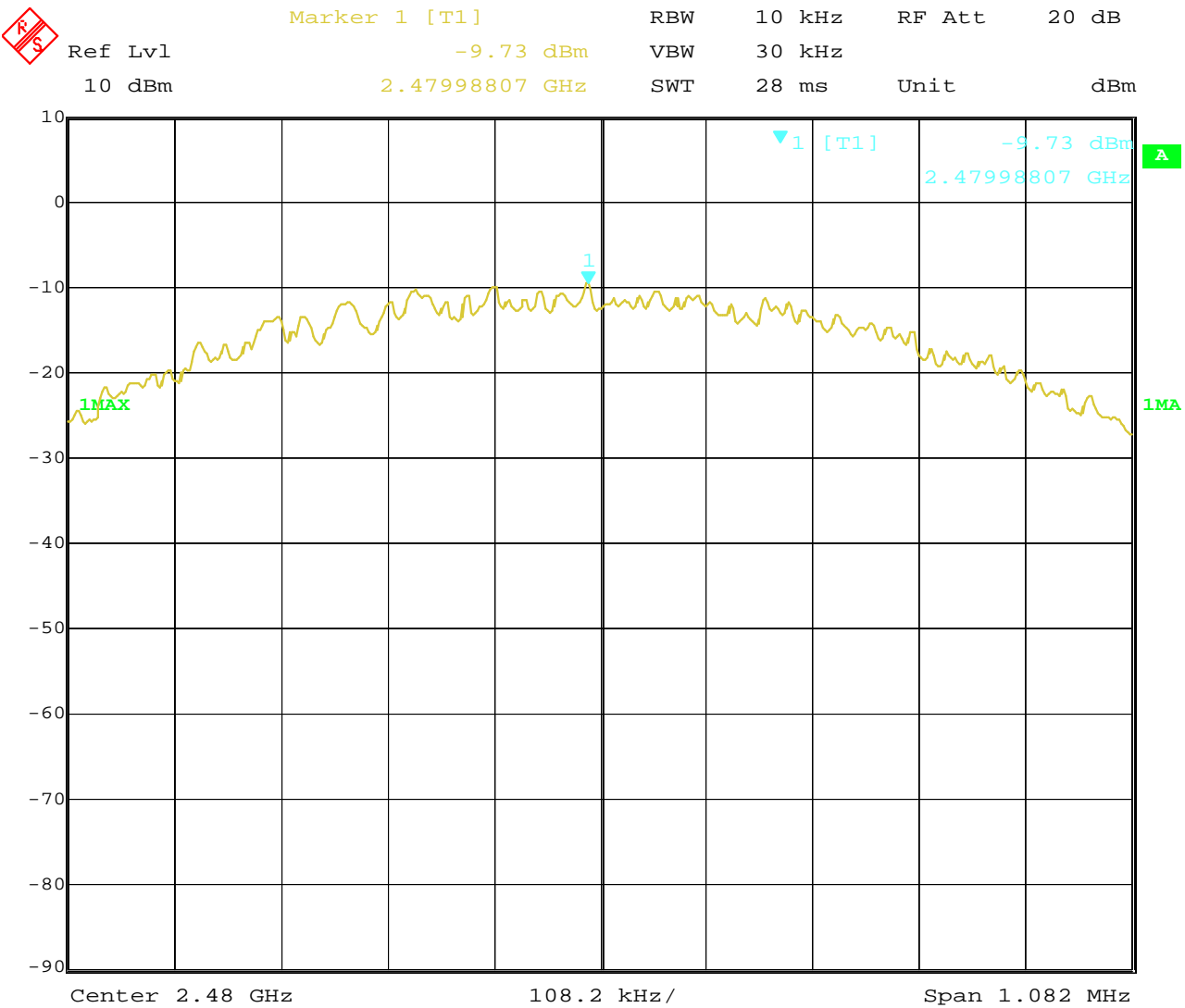
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3. High Channel



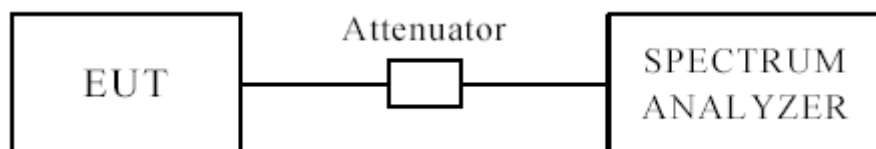
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## 10 Out of Band Measurement

### 10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

### 10.2 Limits of Out of Band Emissions Measurement

1. Below  $-20\text{dB}$  of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

### 10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of Radiated emission test. (Peak values with RBW=1MHz, VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

### 10.4 Test Result

Please see next pages

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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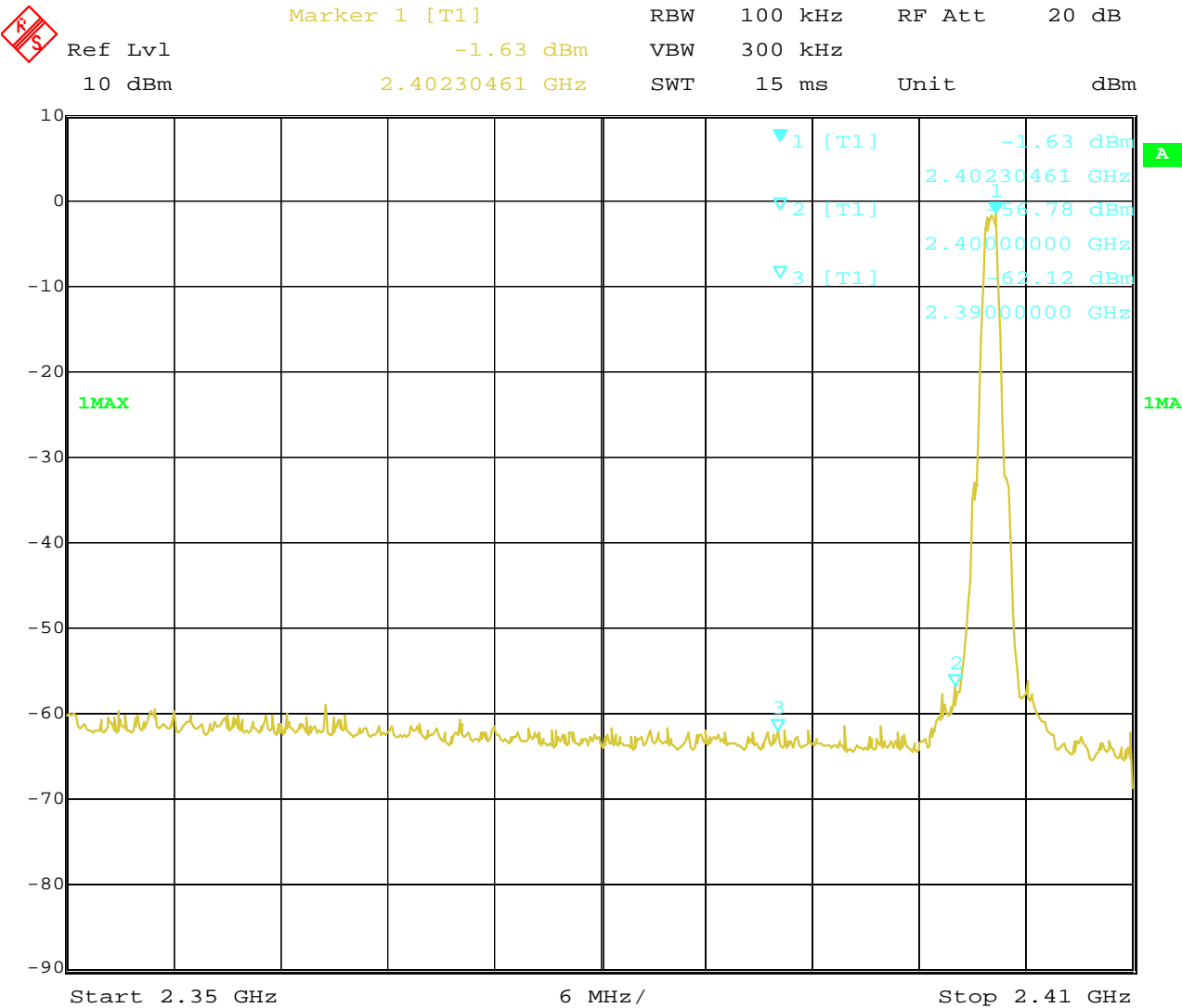
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10.4 Band-edge Measurement

EUT	2.4G Remote control	Model	XR24-02
Mode	Keep Transmitting	Input Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



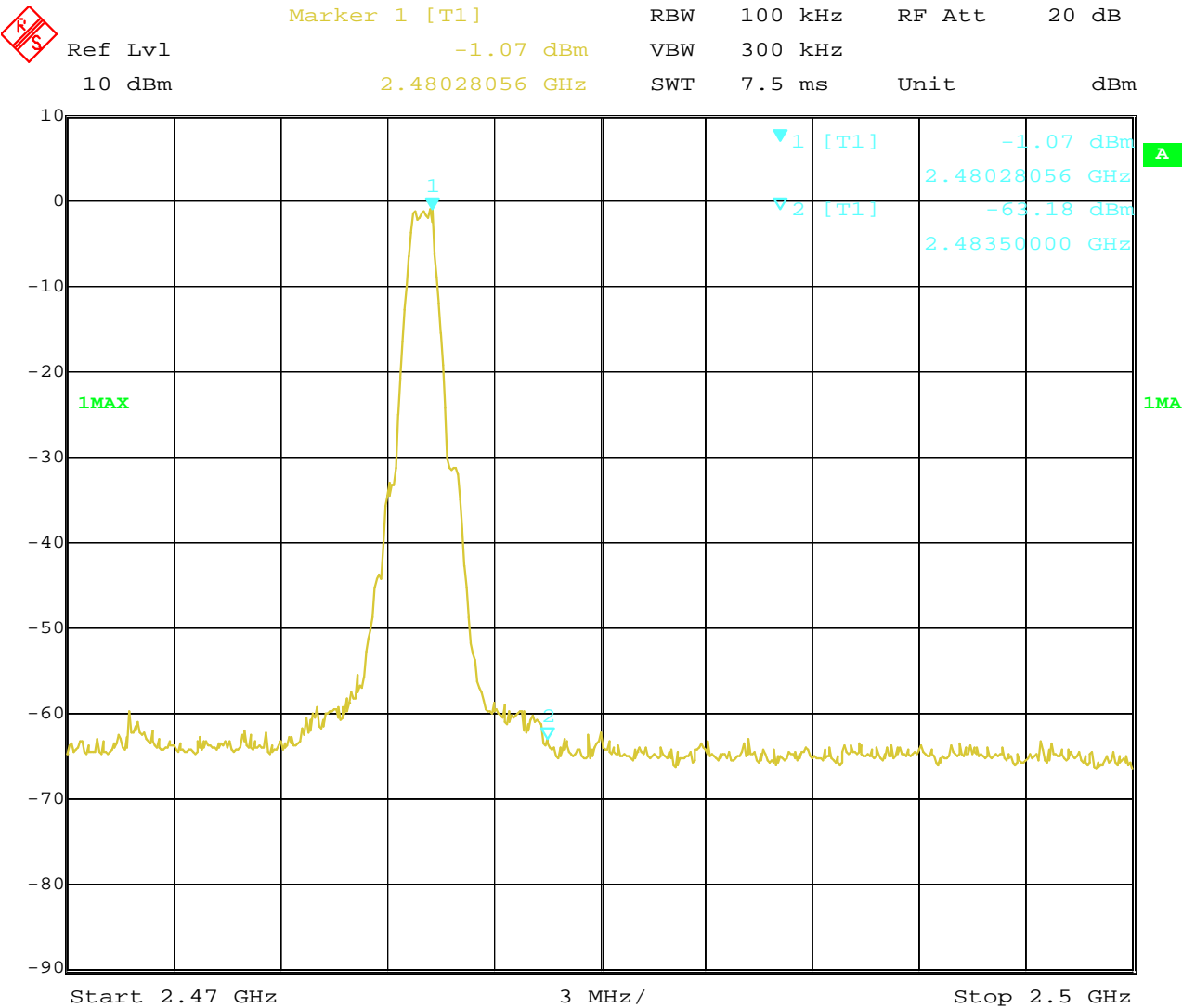
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10.4 Band-edge Measurement

EUT	2.4G Remote control	Model	XR24-02
Mode	Keeping Transmitting	Input Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

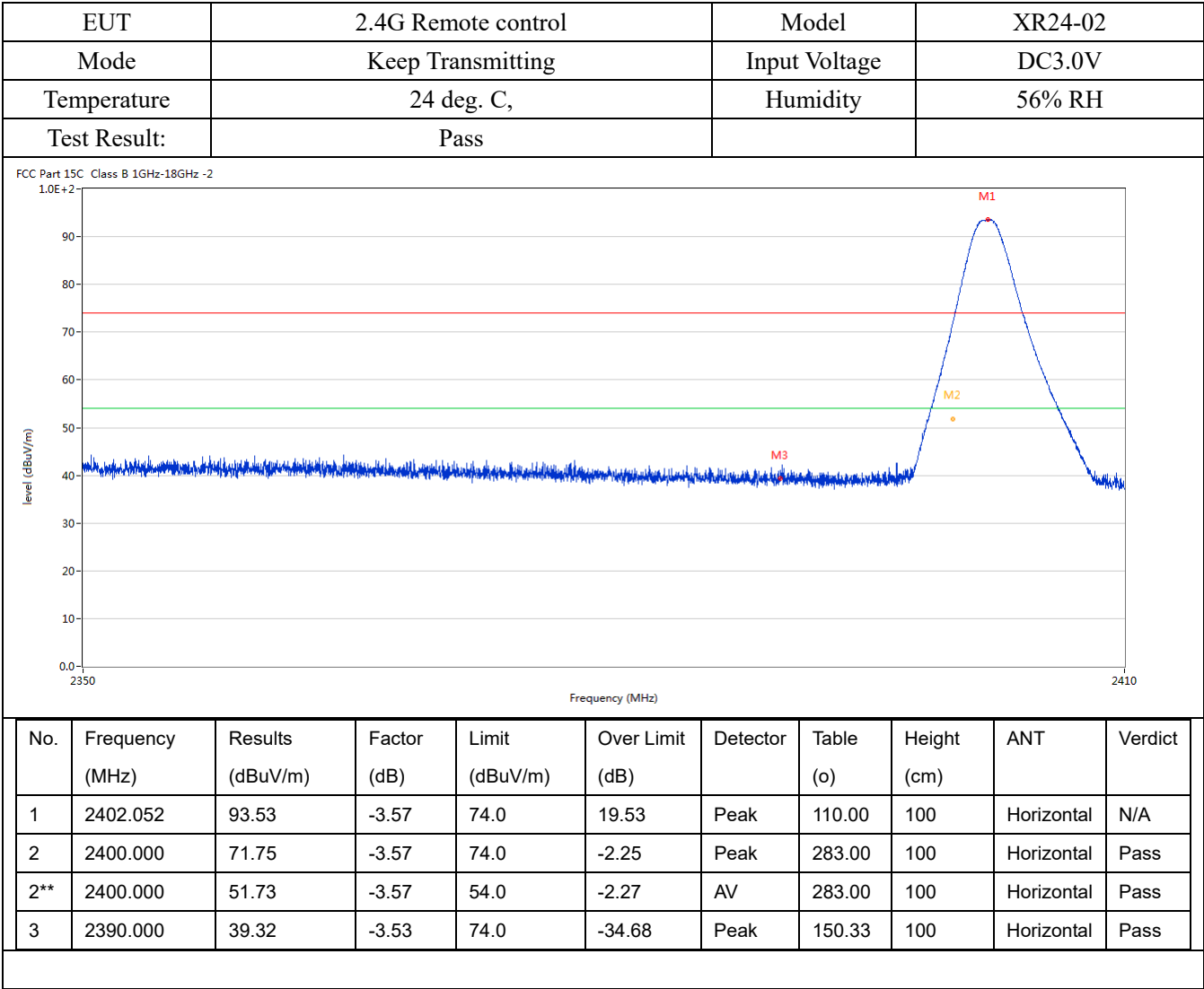
Test Figure:



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10.4 Restrict Band Measurement

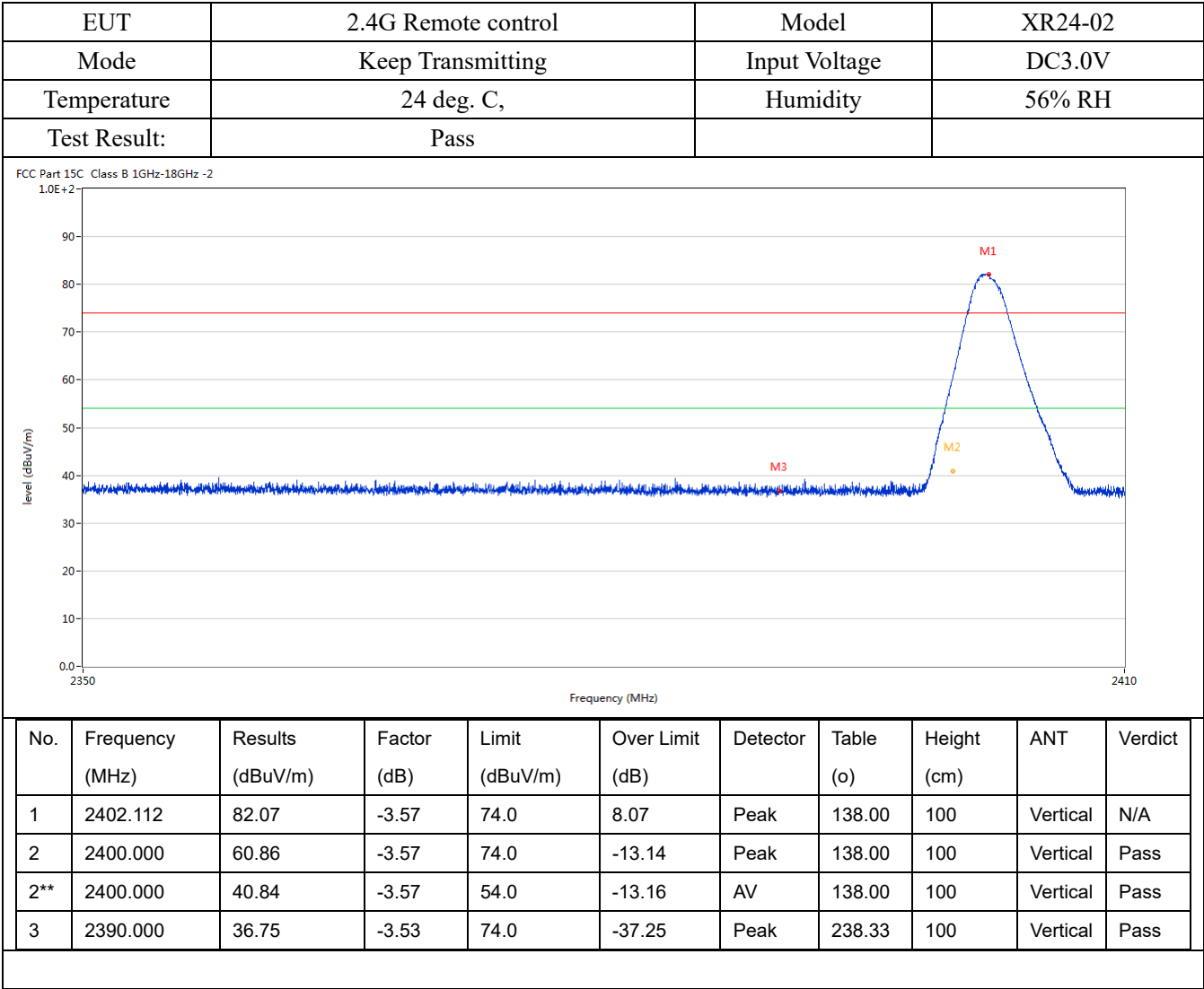


Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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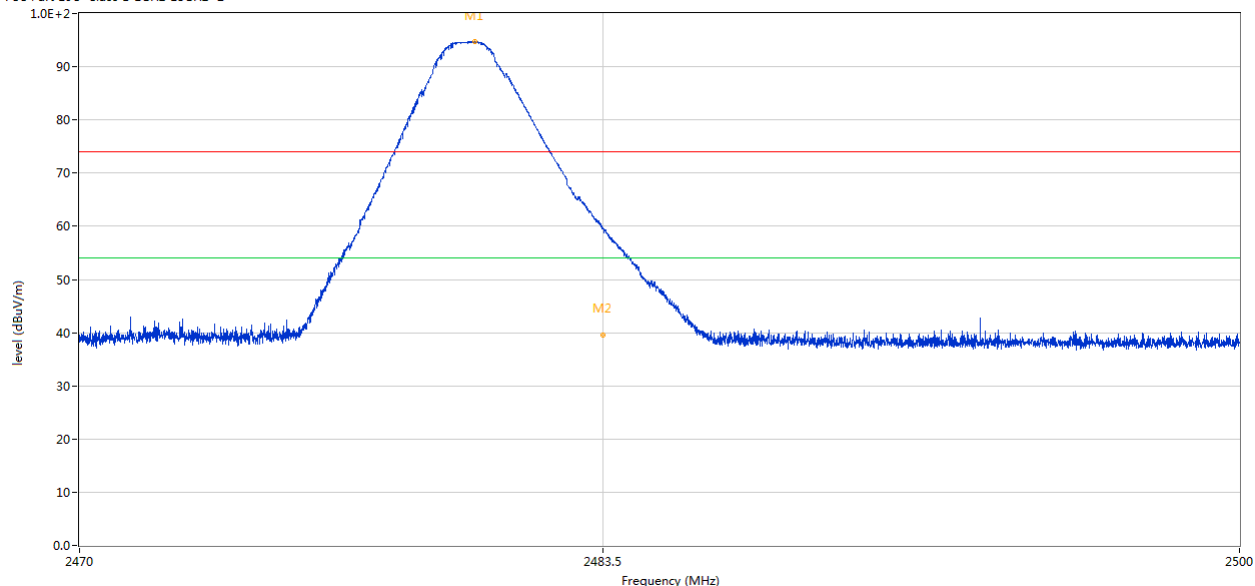


Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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10.4 Restrict Band Measurement

EUT	2.4G Remote control			Model	XR24-02					
Mode	Keep Transmitting			Input Voltage	DC3.0V					
Temperature	24 deg. C,			Humidity	56% RH					
Test Result:	Pass									
<div>FCC Part 15C Class B 1GHz-18GHz -2</div> 										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.175	94.67	-3.57	74.0	20.67	Peak	114.00	100	Horizontal	N/A
2	2483.500	59.56	-3.57	74.0	-14.44	Peak	114.00	100	Horizontal	Pass
2**	2483.500	39.54	-3.57	54.0	-14.46	AV	114.00	100	Horizontal	Pass

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10.4 Restrict Band Measurement

EUT	2.4G Remote control		Model	XR24-02	
Mode	Keep Transmitting		Input Voltage	DC3.0V	
Temperature	24 deg. C,		Humidity	56% RH	
Test Result:	Pass				

FCC Part 15C Class B 1GHz-18GHz -2

Frequency (MHz)	Level (dBuV/m)	Label
2479.733	81.81	M1
2483.500	48.13	M2

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.733	81.81	-3.57	74.0	7.81	Peak	344.00	100	Vertical	N/A
2	2483.500	48.13	-3.57	74.0	-25.87	Peak	344.00	100	Vertical	Pass

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## **11.0 Antenna Requirement**

### **11.1 Standard Applicable**

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **11.2 Antenna Connected construction**

PCB antenna used. The gain of the antennas is -0.62dBi (Get from the antenna specification provided the manufacturer)

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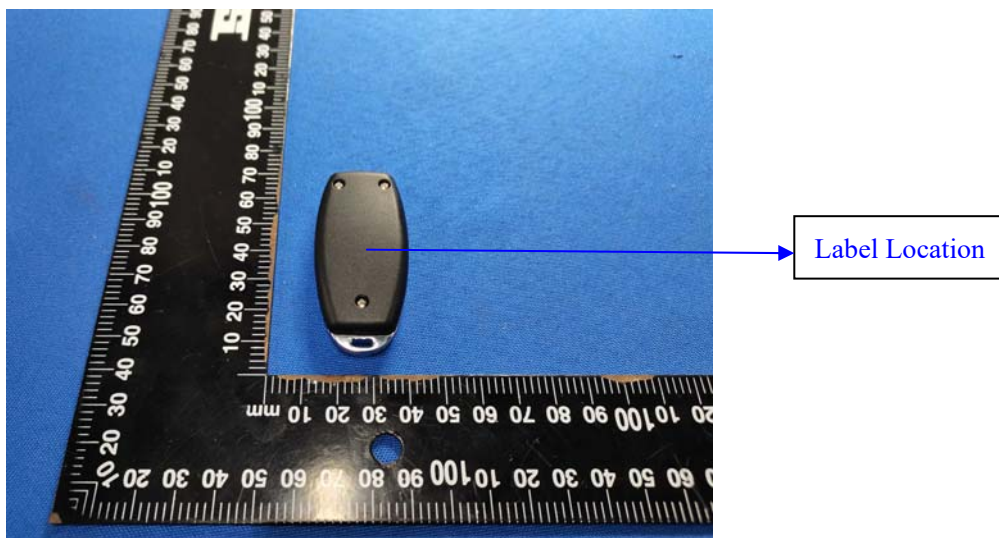


## 12.0 FCC ID Label

**FCC ID: 2BCTA-YKQ24**

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

### Mark Location:



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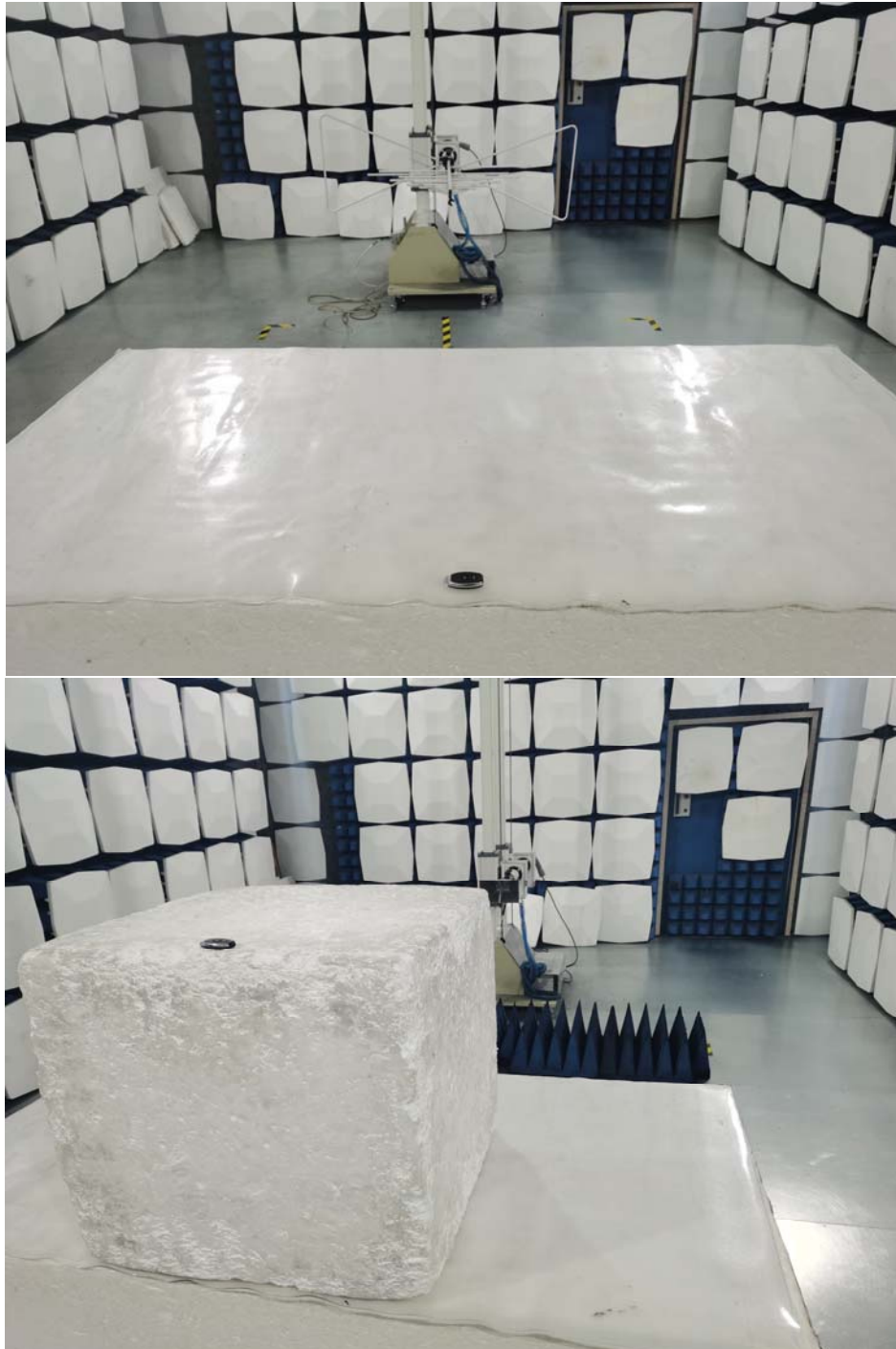
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### 13.0 Photo of testing

Conducted Emission Test Setup: N/A

Radiated Emission Test Setup:



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### Photographs – EUT



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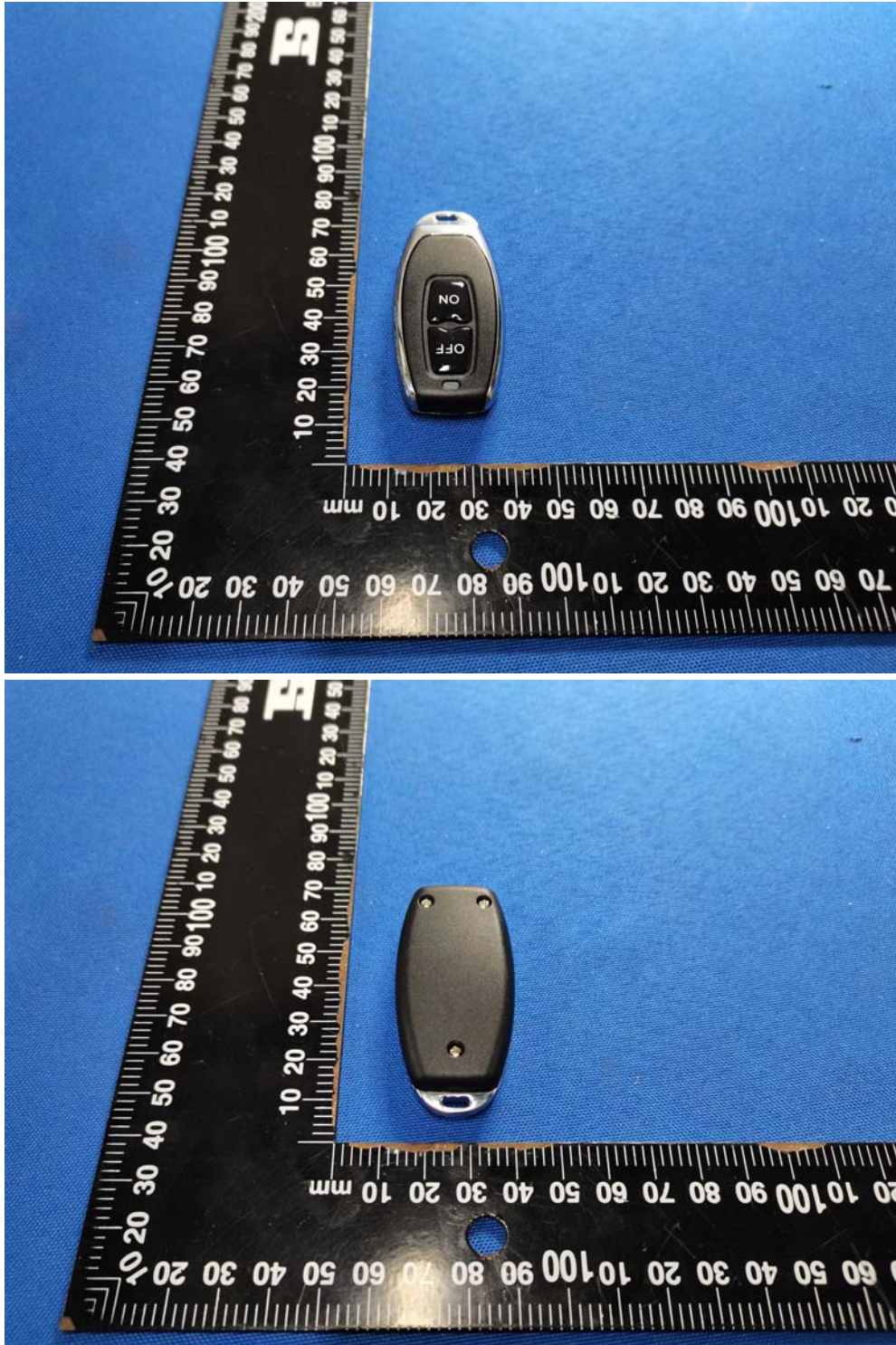
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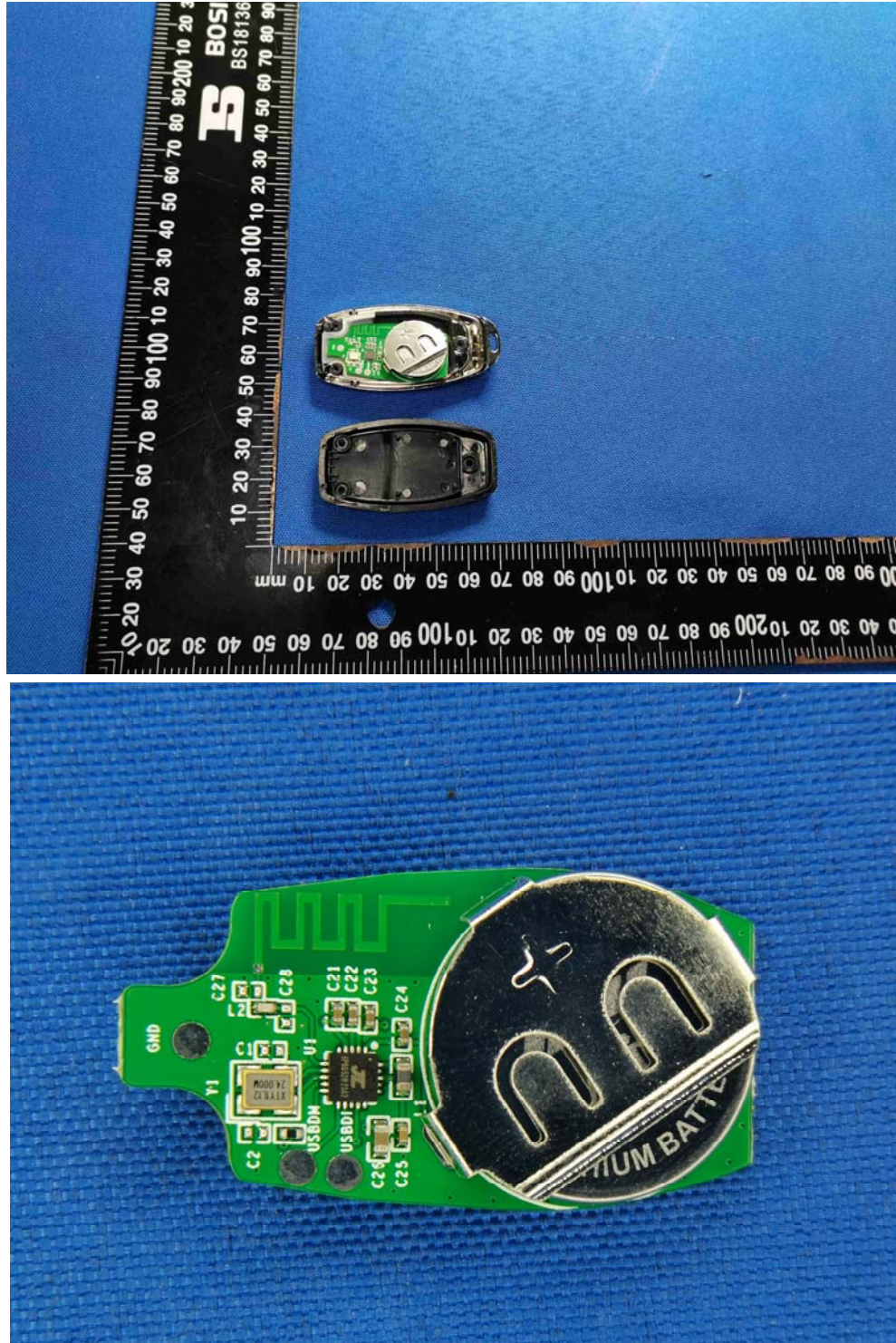
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### Photographs – EUT



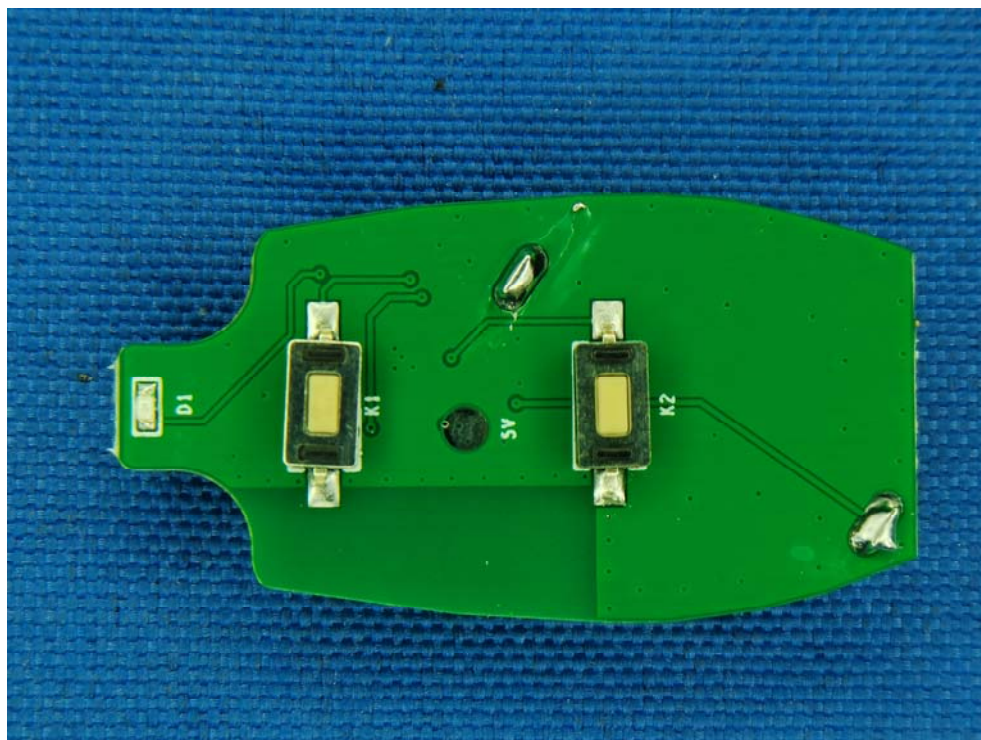
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### Photographs – EUT



### End of the report

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