



<b>Prüfbericht-Nr.:</b> <i>Test report no.:</i>	<b>CN23QR2D 001</b>	<b>Auftrags-Nr.:</b> <i>Order no.:</i>	168404445	Seite 1 von 20 <i>Page 1 of 20</i>																									
<b>Kunden-Referenz-Nr.:</b> <i>Client reference no.:</i>	N/A	<b>Auftragsdatum:</b> <i>Order date:</i>	2022-12-22																										
<b>Auftraggeber:</b> <i>Client:</i>	<b>VTech Electronics Limited</b> 23F Tai Ping Industrial Center, Block 1, 57 Ting Kok Road, Tai Po, Hong Kong																												
<b>Prüfgegenstand:</b> <i>Test item:</i>	Wireless controller																												
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type no.:</i>	6088, 80-6088xx (xx=00 to 99, definition of country and language version)																												
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	FCC and IC approval																												
<b>Prüfgrundlage:</b> <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247    RSS-247 Issue 2 February 2017 CFR47 FCC Part 15: Subpart C Section 15.207    RSS-Gen Issue 5 February 2021 CFR47 FCC Part 15: Subpart C Section 15.209    RSS-102 Issue 5 February 2021 CFR47 FCC Part 2.1093																												
<b>Wareneingangsdatum:</b> <i>Date of sample receipt:</i>	2022-12-28	Please refer to photo documents																											
<b>Prüfmuster-Nr.:</b> <i>Test sample no.:</i>	A003395764																												
<b>Prüfzeitraum:</b> <i>Testing period:</i>	2022-12-29 – 2023-01-31																												
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.																												
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.																												
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass																												
<b>geprüft von:</b> <i>tested by:</i>			<b>genehmigt von:</b> <i>authorized by:</i>																										
<b>Datum:</b> <i>Date:</i>	2023-03-10		<b>Ausstellungsdatum:</b> <i>Issue date:</i>	2023-03-10																									
	<small>Signed by: Alex Lan</small>			<small>Signed by: Lin Lin</small>																									
<b>Stellung / Position</b>	Assistant Project Manager		<b>Stellung / Position</b>	Reviewer																									
<b>Sonstiges / Other:</b>																													
FCC ID: G2R-6088 IC: 1135D-6088    HVIN: 6088    PMN: Peppa Pig Peppa's Big Day																													
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>			<b>Prüfmuster vollständig und unbeschädigt</b> <i>Test item complete and undamaged:</i>																										
<table border="0"> <tr> <td>* Legende:</td> <td>1 = sehr gut</td> <td>2 = gut</td> <td>3 = befriedigend</td> <td>4 = ausreichend</td> <td>5 = mangelhaft</td> </tr> <tr> <td></td> <td>P(ass) = entspricht o.g. Prüfgrundlage(n)</td> <td>F(ail) = entspricht nicht o.g. Prüfgrundlage(n)</td> <td>N/A = nicht anwendbar</td> <td>N/T = nicht getestet</td> <td></td> </tr> <tr> <td>Legend:</td> <td>1 = very good</td> <td>2 = good</td> <td>3 = satisfactory</td> <td>4 = sufficient</td> <td>5 = poor</td> </tr> <tr> <td></td> <td>P(ass) = passed a.m. test specifications(s)</td> <td>F(ail) = failed a.m. test specifications(s)</td> <td>N/A = not applicable</td> <td>N/T = not tested</td> <td></td> </tr> </table>						* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhaft		P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet		Legend:	1 = very good	2 = good	3 = satisfactory	4 = sufficient	5 = poor		P(ass) = passed a.m. test specifications(s)	F(ail) = failed a.m. test specifications(s)	N/A = not applicable	N/T = not tested	
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<p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b></p> <p><i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>																													

V05

## **Test Summary**

**5.1.1 ANTENNA REQUIREMENT**

*RESULT: Pass*

**5.1.2 MAXIMUM CONDUCTED OUTPUT POWER**

*RESULT: Pass*

**5.1.3 CONDUCTED POWER SPECTRAL DENSITY**

*RESULT: Pass*

**5.1.4 99%dB BANDWIDTH**

*RESULT: Pass*

**5.1.5 6dB BANDWIDTH**

*RESULT: Pass*

**5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH**

*RESULT: Pass*

**5.1.7 RADIATED SPURIOUS EMISSION**

*RESULT: Pass*

**6.1.1 ELECTROMAGNETIC FIELDS**

*RESULT: Pass*

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# 1 General Remarks

## 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

Appendix B: Test Results of Conducted & Radiated Testing

# 2 Test Sites

## 2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China

FCC Registration No.: 694916

IC Registration No.: 25069, CAB identifier: CN0078

## 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

<b>Radio Spectrum Testing</b>				
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Until</b>
Wireless Connectivity Tester	R&S	CMW270	101375	2023-08-02
Signal Analyzer	R&S	FSV 40	101441	2023-08-01
OSP	R&S	OSP 150	101017	2023-11-21
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	R&S	WMS32 (V11.00.00)	N/A	N/A
Power Meter	R&S	NRP2	107105	2023-11-21
Power Sensor	R&S	NRP-Z81	105677	2023-08-01
Shielding Room 8#	Albatross	SR8	APC17151-SR8	2024-06-22
<b>Unwanted Emission Testing</b>				
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Until</b>
EMI Test Receiver	R&S	ESR 7	102021	2024-08-02
Signal Analyzer	R&S	FSV 40	101439	2024-08-01
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	2024-08-01
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2024-08-02
Amplifier	R&S	SCU-18F	180070	2024-08-02
Amplifier	R&S	SCU40A	100475	2024-08-02
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-08-06
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2024-08-06
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-08-07
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2024-08-06
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-06-22

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Item		Extended Uncertainty
Radiated Emission (30-1000MHz)	Field strength (dB $\mu$ V/m)	4.27dB
Radiated Emission (above 1000MHz)	Field strength (dB $\mu$ V/m)	4.46dB
Radio Spectrum		$\pm 1.5$ dB

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China. is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

## 3 General Product Information

### 3.1 Product Function and Intended Use

The EUT is a wireless controller, it supports 2.4GHz wireless technology.

All models are identical except the model number for different market purpose.

For details refer to the User Manual, Technical Description and Circuit Diagram.

### 3.2 Ratings and System Details

**Table 2: Technical Specification of EUT**

General Information of EUT	Value
Kind of Equipment	PAW PATROL TO THE RESCUE!
Type Designation	6088, 80-6088xx (xx=00 to 99, definition of country and language version)
FCC ID	G2R-6088
IC	1135D-6088
HVIN	6088
Operating Voltage	DC 3.0V (Supplier by 2* 1.5V AA/LR6/AM-3 battery)
Testing Voltage	DC 3V
<b>Technical Specification of 2.4GHz</b>	
Operating Frequency	2408 – 2472 MHz
Channel Number	3 channels
Frequency list	2408MHz, 2438MHz, 2472MHz
Modulation	GFSK
Antenna Type	Integral PCB Antenna
Smart Antenna Systems:	Not Applicable
Number of Antenna	1
Antenna Gain	0 dBi

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On, transmitting mode
  - 1. Low channel
  - 2. Middle channel
  - 3. High channel
- B. On, Operating
- C. Off

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

### 3.5 Submitted Documents

- Application Form
- Block Diagram
- FCC/IC Label and Location Info
- Operation Description
- Photo Document
- Schematics
- User Manual



## 4 Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

**Radio Spectrum:** The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all test were applied on model 6088.

### 4.3 Special Accessories and Auxiliary Equipment

Table 3: List of Accessories and Auxiliary Equipment

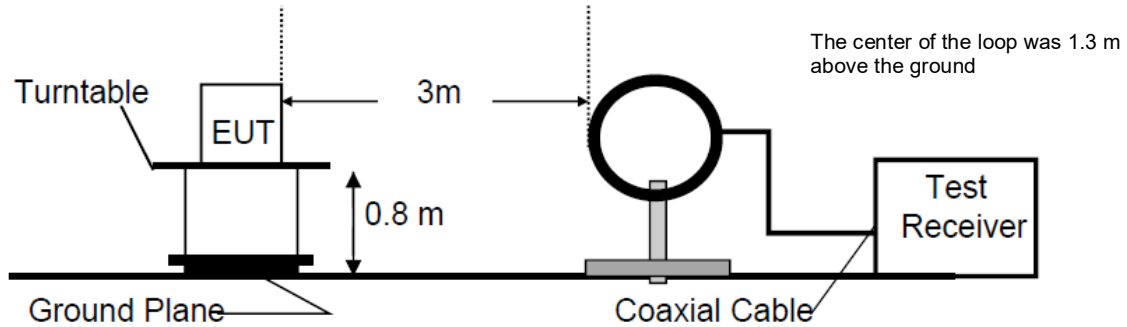
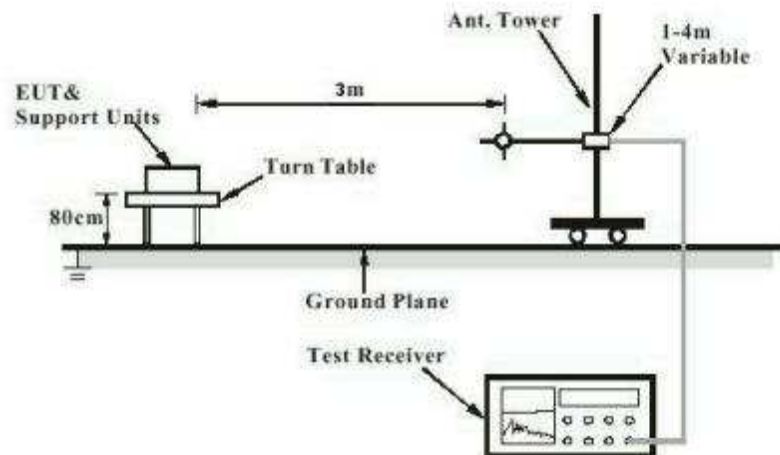
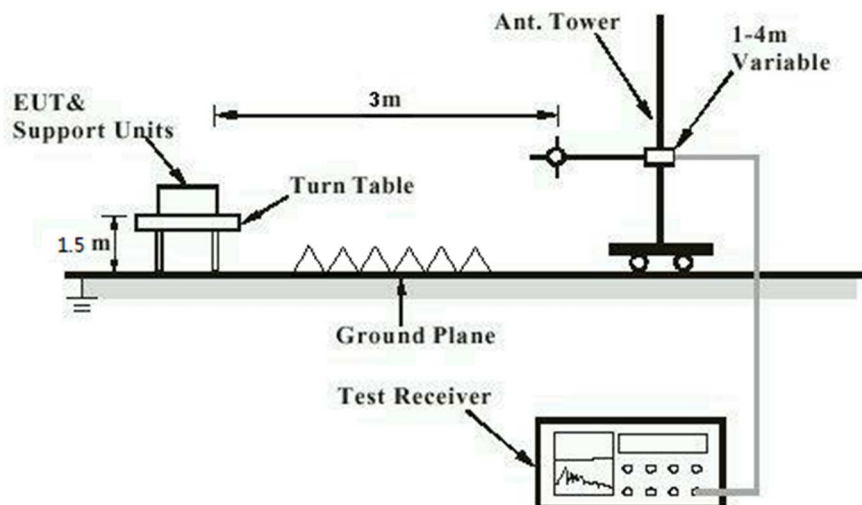
Description	Manufacturer	Model	S/N
Notebook	Lenovo	ThinkPad X260	N/A

### 4.4 Countermeasures to Achieve EMC Compliance

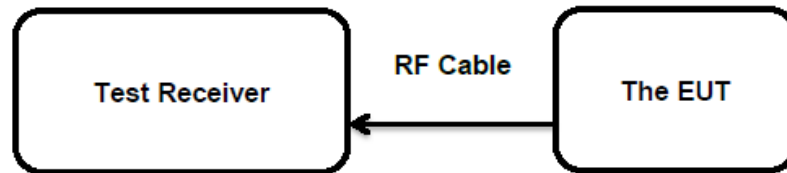
The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

## 4.5 Test Setup Diagram

**Diagram of Measurement Configuration for Radiation Test (Below 30MHz)**

**Diagram of Measurement Configuration for Radiation Test (Below 1GHz)**

**Diagram of Measurement Configuration for Radiation Test (Above 1GHz)**


**Diagram of Measurement Configuration for Conducted Transmitter Measurement**



## 5 Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

**RESULT:****Pass****Test Specification**

Test standard	:	FCC Part 15.247(b)(4) and Part 15.203
	:	RSS-Gen Clause 6.7
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the product internal photos, the EUT has an integrated PCB antenna, the directional gain of antenna is 0 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

## 5.1.2 Maximum Conducted Output Power

**RESULT:**
**Pass**
**Test Specification**

Test standard : FCC Part 15.247(b)(3)  
                   : RSS-247 Clause 5.4(d)  
 Basic standard : ANSI C63.10: 2013  
 Limits : < 1 Watt (Maximum Conducted Peak Power)  
           : e.i.r.p. <4W  
 Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2023-01-05  
 Input voltage : DC 3V  
 Operation mode : A  
 Test channel : Low / Middle / High  
 Ambient temperature : 24.8 °C  
 Relative humidity : 55 %  
 Atmospheric pressure : 101 kPa

For details refer to following test result.

**Table 4: Test Result of Maximum Conducted Output Power**

Channel	Channel Frequency (MHz)	Conducted Peak Output Power		Limit (W)
		(dBm)	(W)	
Low Channel	2408	-4.0	0.00040	1
Middle Channel	2438	-4.3	0.00037	1
High Channel	2472	-4.3	0.00037	1

Note: The cable loss is taken into account in results and the e.i.r.p. is -4.0 dBm less than 4W (36 dBm).

### 5.1.3 Conducted Power Spectral Density

**RESULT:**
**Pass**
**Test Specification**

Test standard : FCC Part 15.247(e)  
                   : RSS-247 Clause 5.2(b)  
 Basic standard : ANSI C63.10: 2013  
 Limits          : 8 dBm / 3kHz  
 Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2023-01-05  
 Input voltage : DC 3V  
 Operation mode : A  
 Test channel : Low / Middle / High  
 Ambient temperature : 24.8 °C  
 Relative humidity : 55 %  
 Atmospheric pressure : 101 kPa

For details refer to following test result.

**Table 5: Test Result of Power Spectral Density**

Channel	Channel Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
Low Channel	2408	-19.63	8
Middle Channel	2438	-19.03	8
High Channel	2472	-16.73	8

Note: The cable loss is taken into account in results.

For the measurement records, refer to the appendix B.

### 5.1.4 99%dB Bandwidth

**RESULT:**
**Pass**
**Test Specification**

Test standard : RSS-Gen clause 6.7  
 Basic standard : ANSI C63.10: 2013  
 Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2023-01-05  
 Input voltage : DC 3V  
 Operation mode : A  
 Test channel : Low / Middle / High  
 Ambient temperature : 24.8 °C  
 Relative humidity : 55 %  
 Atmospheric pressure : 101 kPa

**Table 6: Test Result of 99% Bandwidth**

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)	Result
Low Channel	2408	4.046	/	Pass
Mid Channel	2438	4.535	/	Pass
High Channel	2472	2.757	/	Pass

For the measurement records, refer to the appendix B.

### 5.1.5 6dB Bandwidth

**RESULT:**
**Pass**
**Test Specification**

Test standard : FCC Part 15.247(a)(2)  
 : RSS-247 Clause 5.2(a)  
 Basic standard : ANSI C63.10: 2013  
 Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2023-01-05  
 Input voltage : DC 3V  
 Operation mode : A  
 Test channel : Low / Middle / High  
 Ambient temperature : 24.8 °C  
 Relative humidity : 55 %  
 Atmospheric pressure : 101 kPa

**Table 7: Test Result of 6dB Bandwidth**

Channel	Channel Frequency (MHz)	-6dB Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2408	1326	500	Pass
Mid Channel	2438	746	500	Pass
High Channel	2472	1250	500	Pass

For the measurement records, refer to the appendix B.



## 5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

**RESULT:****Pass****Test Specification**

Test standard	:	FCC Part 15.247(d) RSS-247 Clause 5.5
Basic standard	:	ANSI C63.10: 2013
Limits	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	:	Shielded Room

**Test Setup**

Date of testing	:	2023-01-05
Input voltage	:	DC 3V
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	24.8 °C
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix B.

## 5.1.7 Radiated Spurious Emission

**RESULT:****Pass****Test Specification**

Test standard	:	FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3 & 5.5
Basic standard	:	ANSI C63.10: 2013
Limits	:	Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Table 4 & Table 5
Kind of test site	:	3m Semi-anechoic Chamber

**Test Setup**

Date of testing	:	2022-12-29 to 2023-01-31
Input voltage	:	DC 3V
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	22 °C
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

**Remark:**

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix B.

## 6 Safety Human Exposure

### 6.1 Radio Frequency Exposure Compliance

#### 6.1.1 Electromagnetic Fields

**RESULT:****Pass****Test Specification**

Test standard : FCC KDB Publication 447498 v06  
CFR47 FCC Part 2: Section 2.1093  
CFR47 FCC Part 1: Section 1.1310  
RSS-102 Issue 5 February 2021

**FCC requirement:**

The measured maximum conducted output power of the EUT is  $-4.0 \text{ dBm} \approx 0.4 \text{ mW}$ , which is far below the SAR exclusion threshold level  $10 \text{ mW}$  (SAR Test Exclusion Thresholds for  $100 \text{ MHz} - 6 \text{ GHz}$  and  $\leq 50 \text{ mm}$ ), hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile and Portable RF Exposure. Guidance v06.

**IC requirements:**

The measured maximum specified e.i.r.p of the EUT is  $-4.0 \text{ dBm} \approx 0.4 \text{ mW}$ , which is far below the SAR exclusion threshold level  $4 \text{ mW}$ , hence the EUT is excluded from SAR evaluation according to RSS-102 Issue 5 section 2.5.1.

## 7 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

## 8 List of Tables

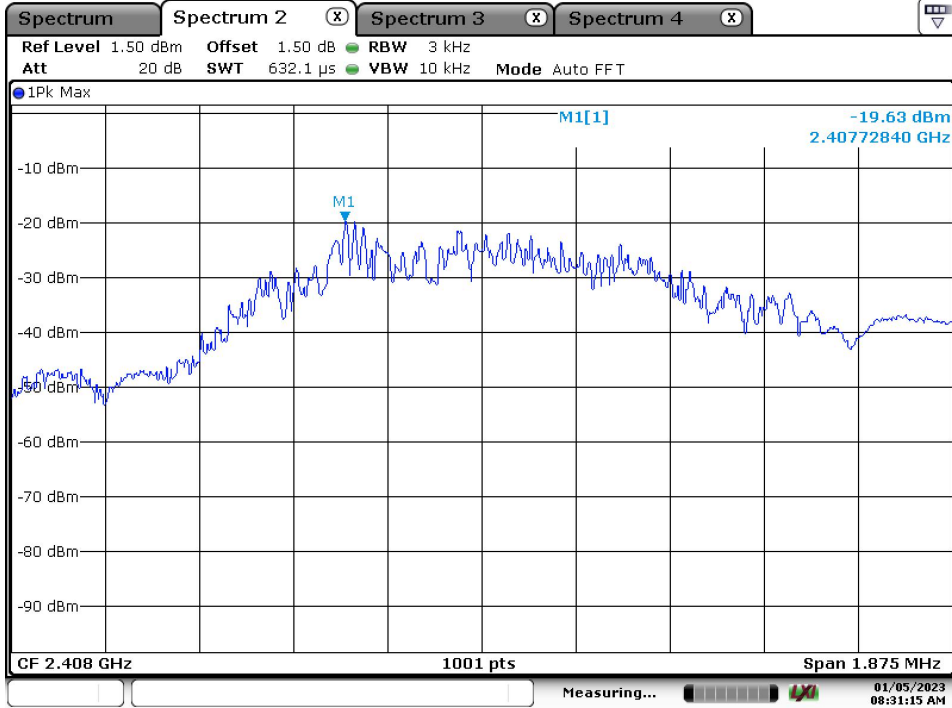
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## Appendix B: Test Results

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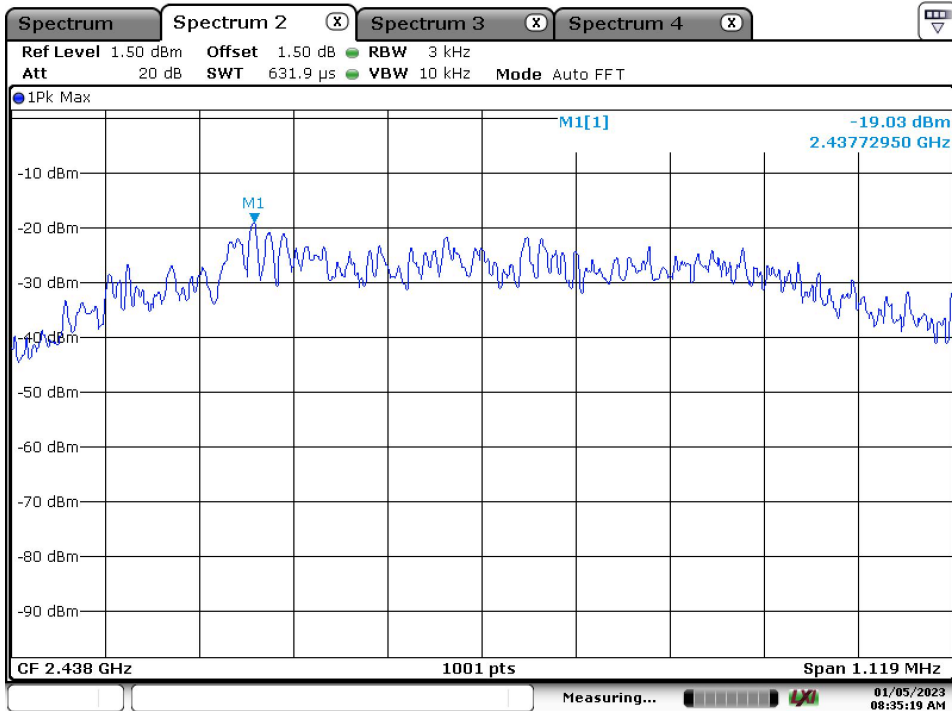
### Appendix B.1: Conducted Power Spectral Density

#### Low Channel



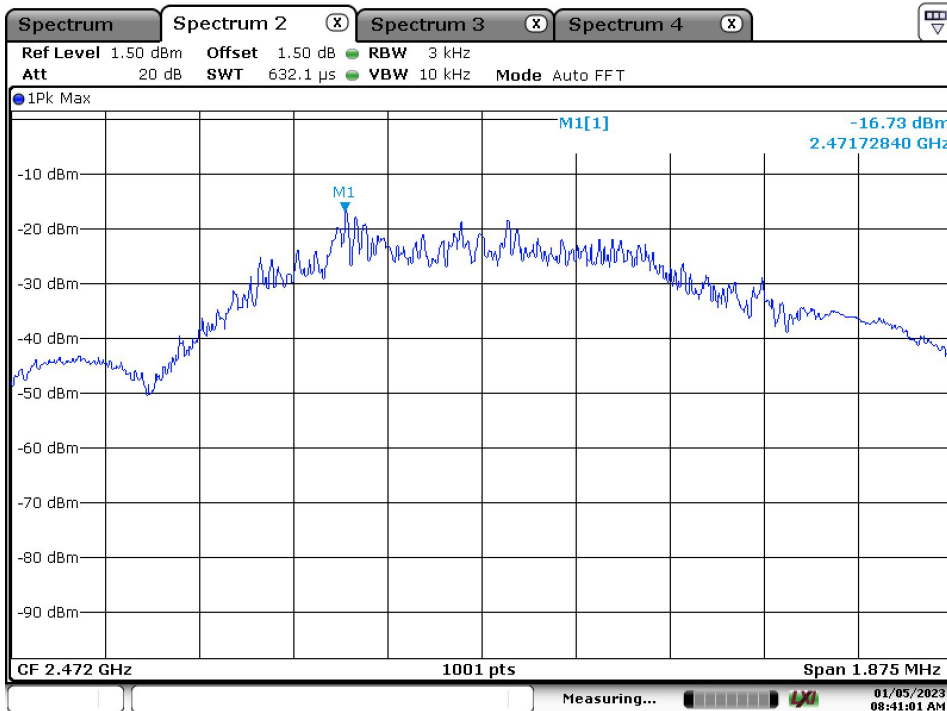
Date: 5.JAN.2023 08:31:15

#### Middle Channel



Date: 5.JAN.2023 08:35:19

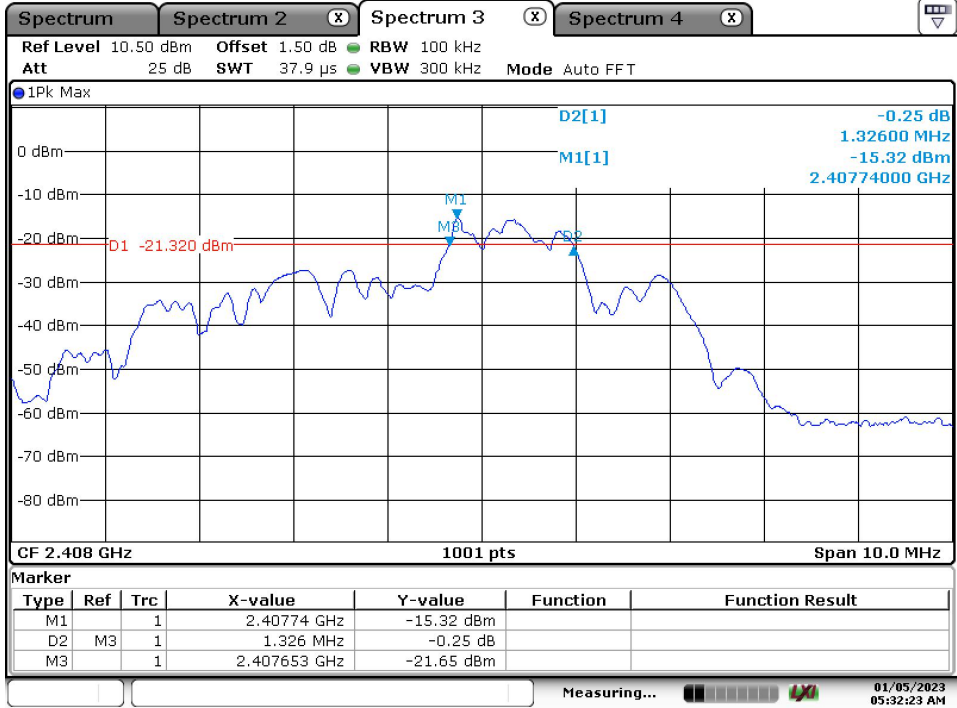
### High Channel



Date: 5.JAN.2023 08:41:02

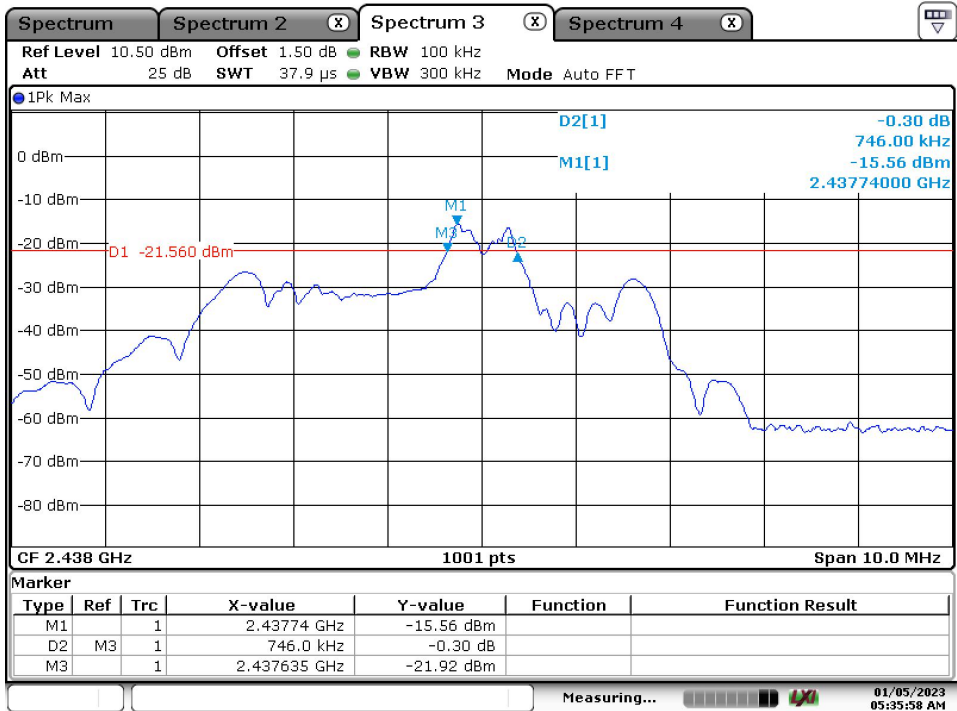
## Appendix B.2: 6dB Bandwidth

### Low Channel



Date: 5.JAN.2023 05:32:24

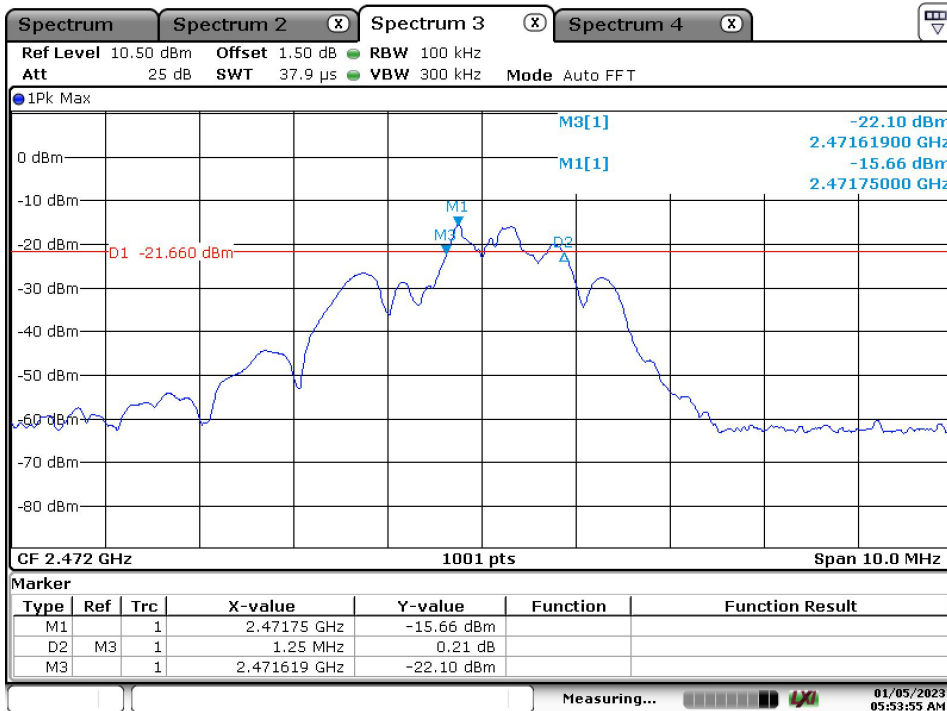
### Middle Channel



Date: 5.JAN.2023 05:35:58



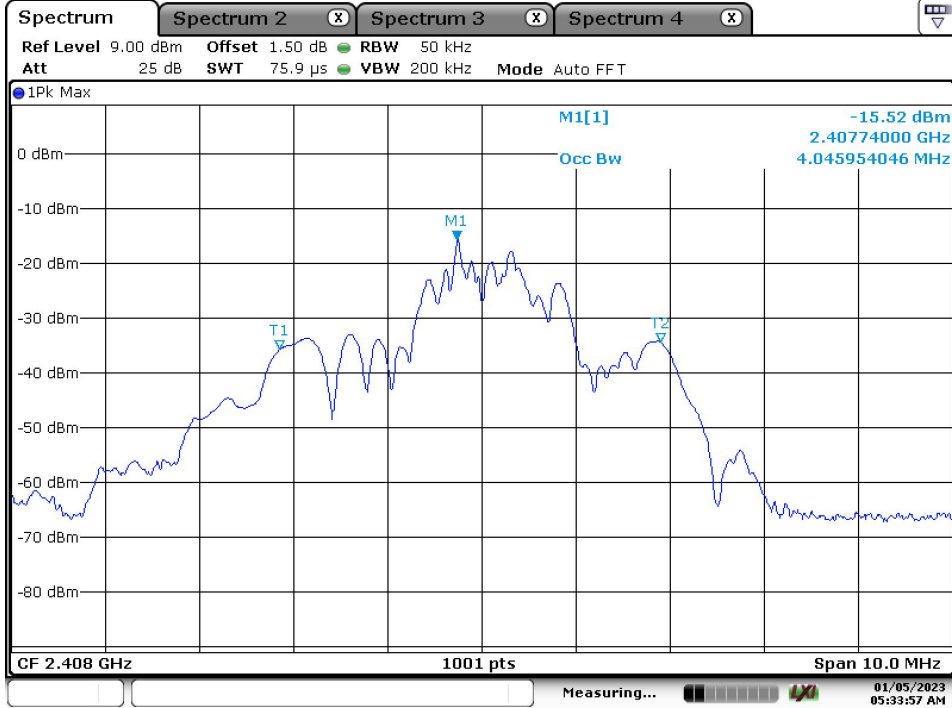
### High Channel



Date: 5.JAN.2023 05:53:56

### Appendix B.3: 99% Bandwidth

#### Low Channel



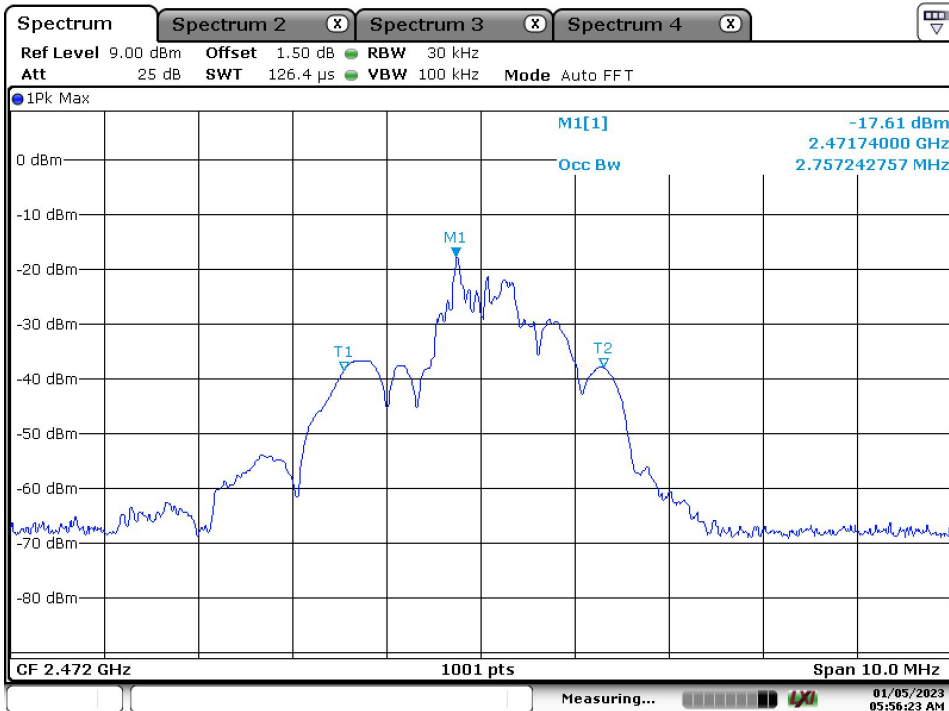
Date: 5.JAN.2023 05:33:57

#### Middle Channel



Date: 5.JAN.2023 05:34:35

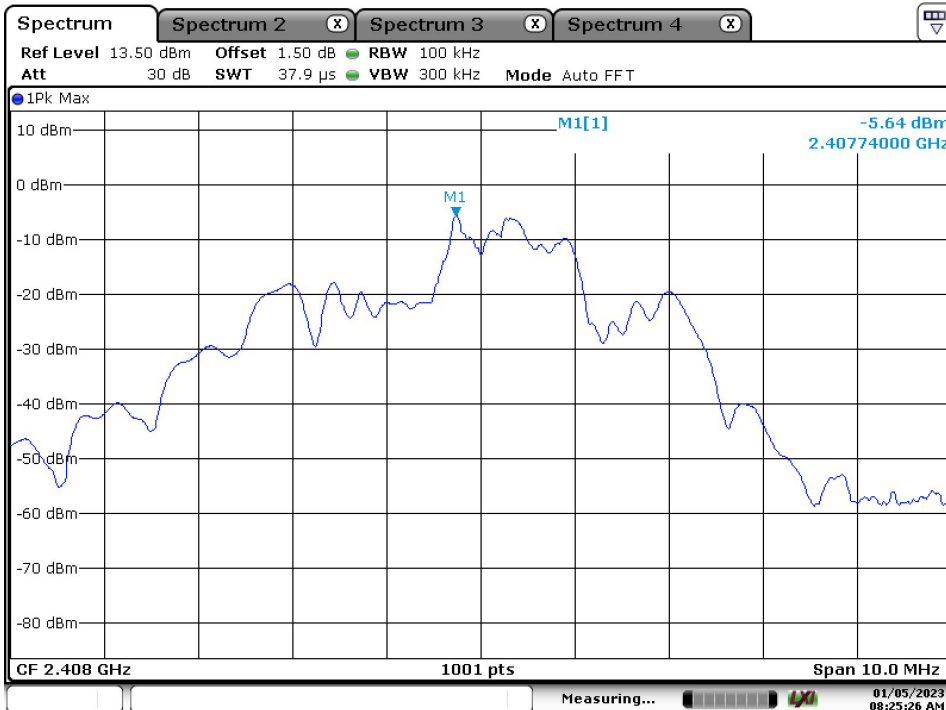
### High Channel



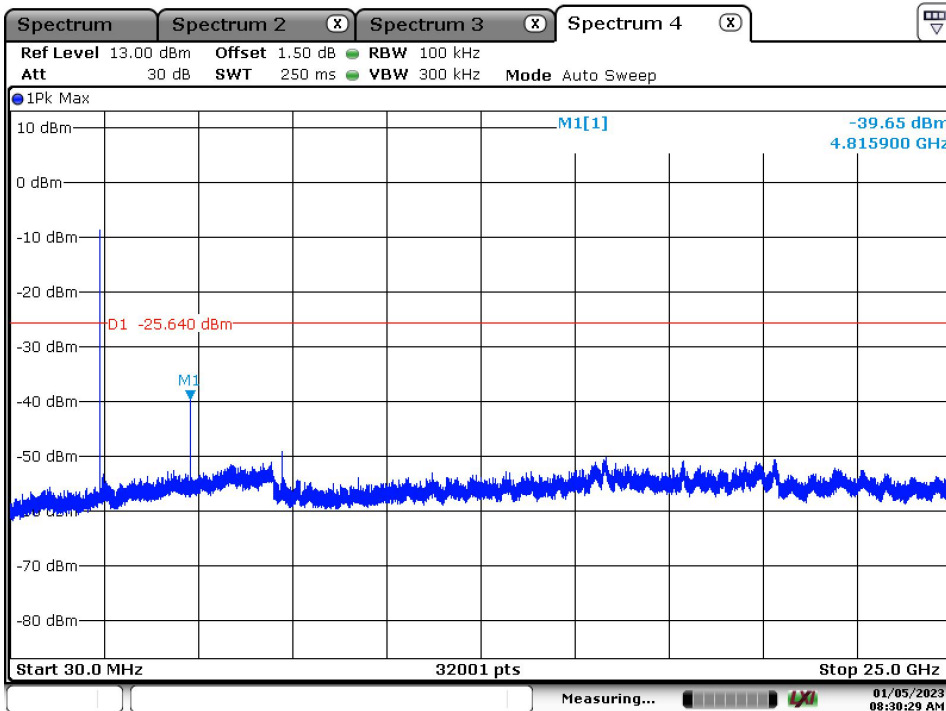
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### Appendix B.4: Conducted Spurious Emissions Measured in 100 kHz Bandwidth

#### Low Channel

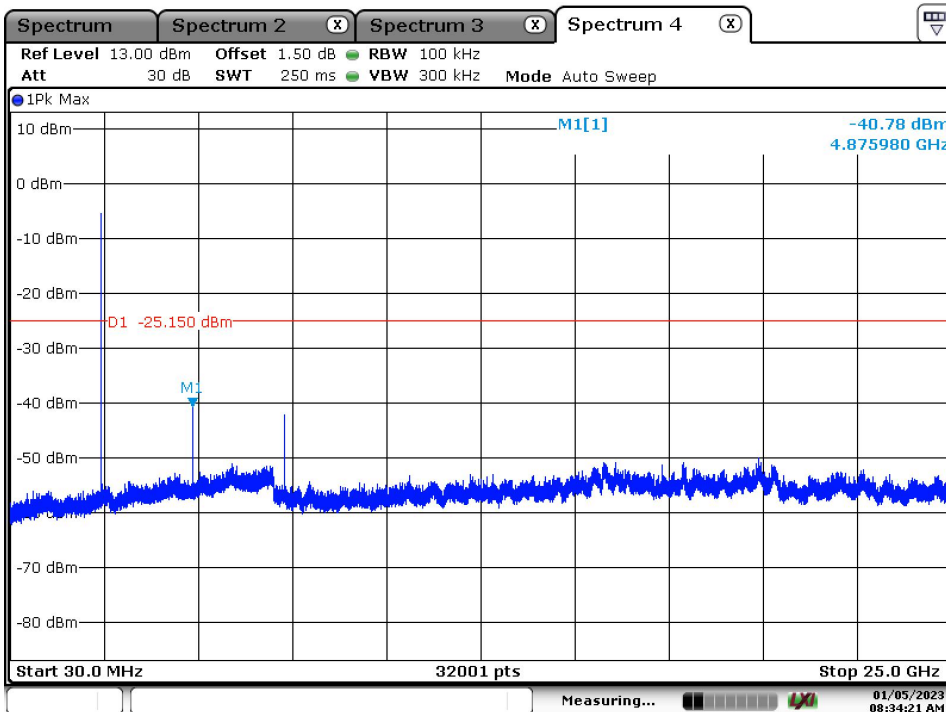


Date: 5.JAN.2023 08:25:26

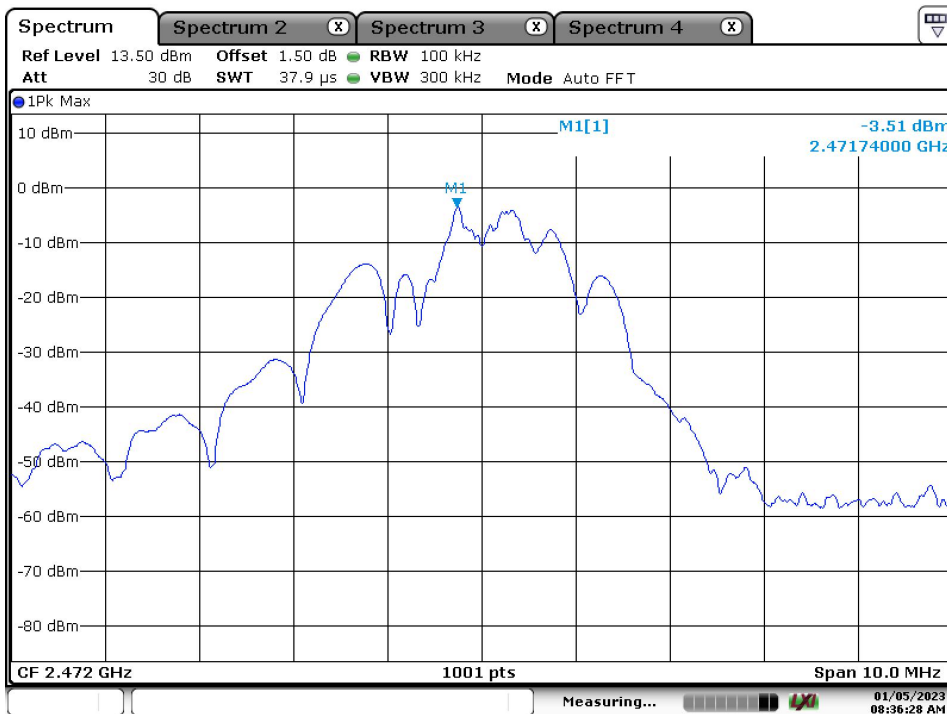


Date: 5.JAN.2023 08:30:30

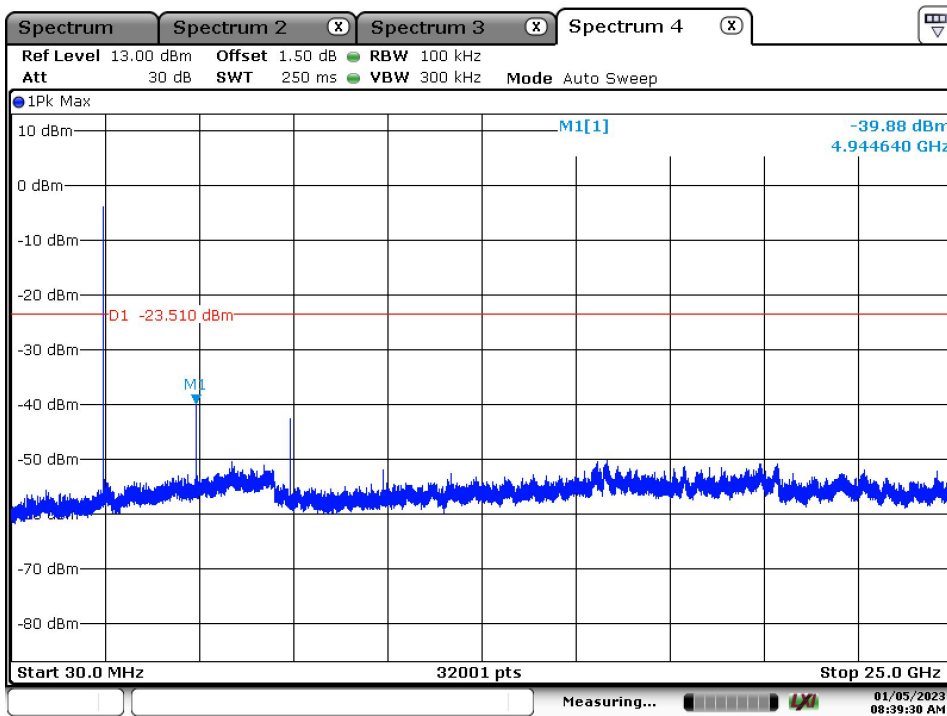
### Middle Channel



### High Channel

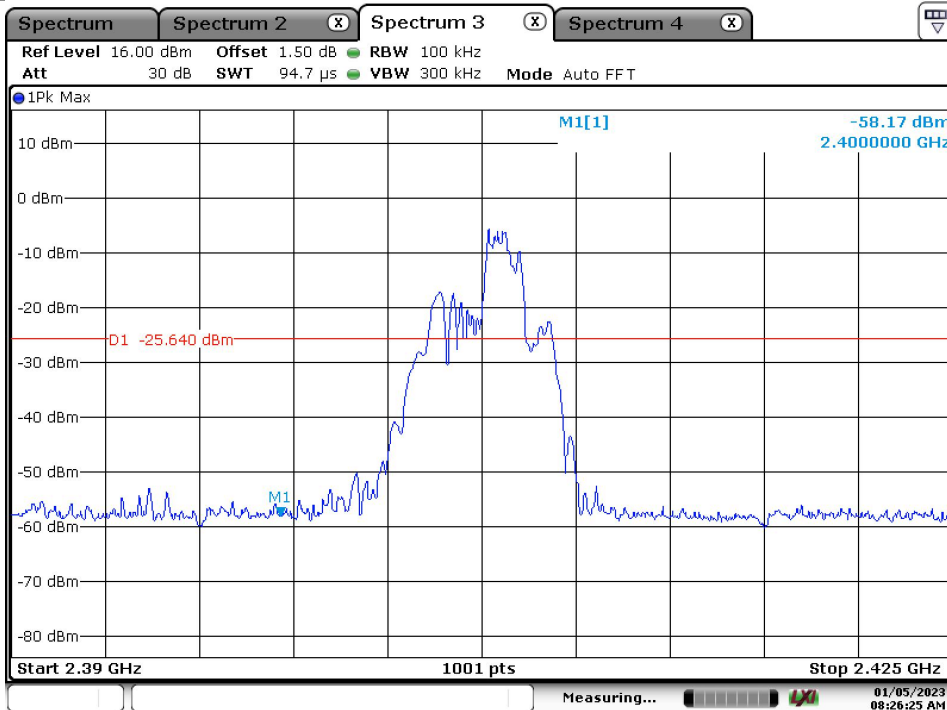


Date: 5.JAN.2023 08:36:28



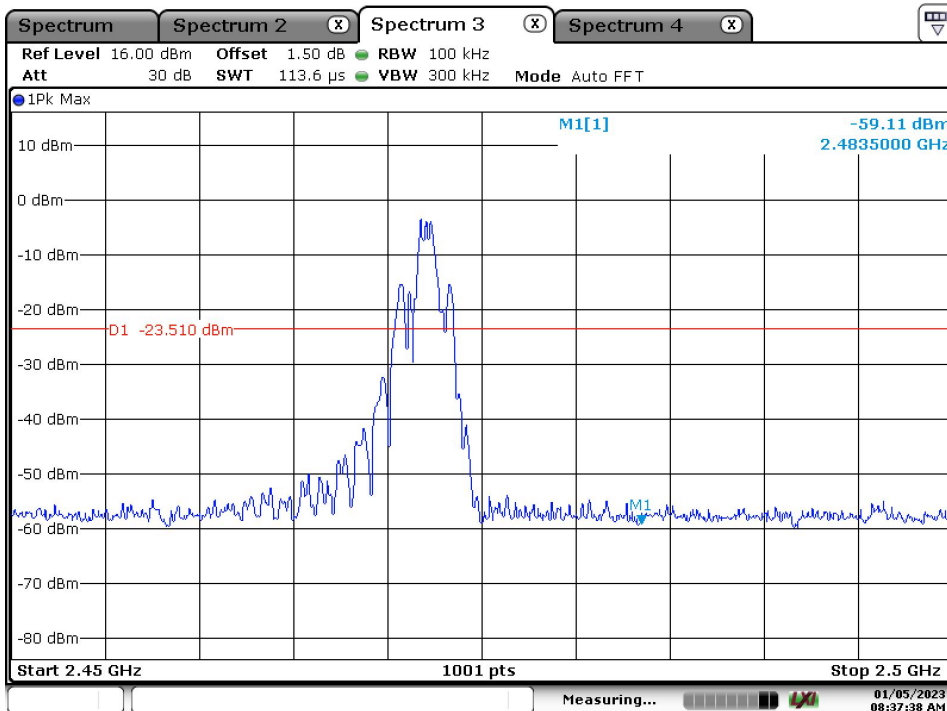
Date: 5.JAN.2023 08:39:30

### Low Channel\_Band Edge



Date: 5.JAN.2023 08:26:25

### High Channel\_Band Edge



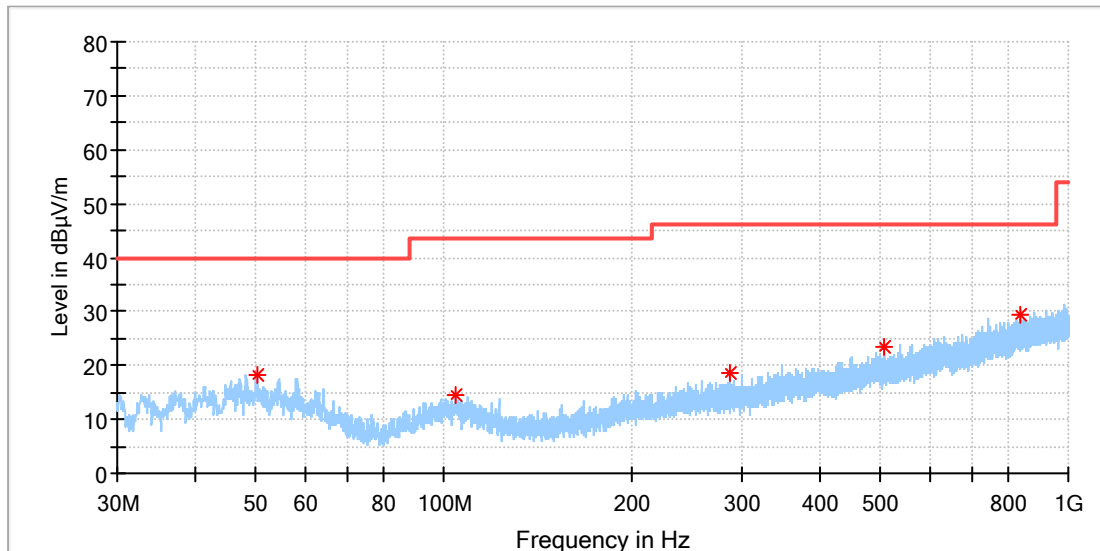
Date: 5.JAN.2023 08:37:39

### Appendix B.5: Test Results of Radiated Spurious Emissions

Note 1: Testing was carried out within frequency range 9 kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

#### EUT Information

EUT Name: Wireless Controller  
 Model: 6088  
 Test Mode: Middle Channel  
 Order No/Sample No: 168404445/A003395764-008  
 Test Voltage:: Battery  
 Remark: Temp 22 Humi:52%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



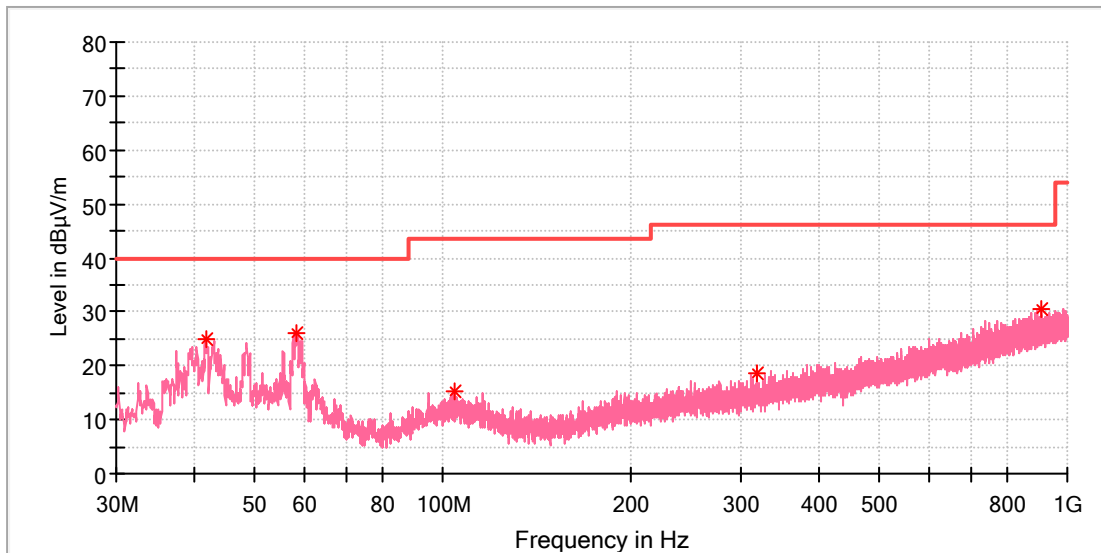
#### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.127500	18.26	40.00	21.74	100.0	H	81.0	-18.3
104.787000	14.44	43.50	29.06	100.0	H	8.0	-18.8
288.020000	18.77	46.00	27.23	100.0	H	1.0	-16.6
505.785000	23.55	46.00	22.45	100.0	H	250.0	-11.7
834.712000	29.42	46.00	16.58	100.0	H	295.0	-5.7



### EUT Information

EUT Name:	Wireless Controller
Model:	6088
Test Mode:	Middle Channel
Order No/Sample No:	168404445/A003395764-008
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

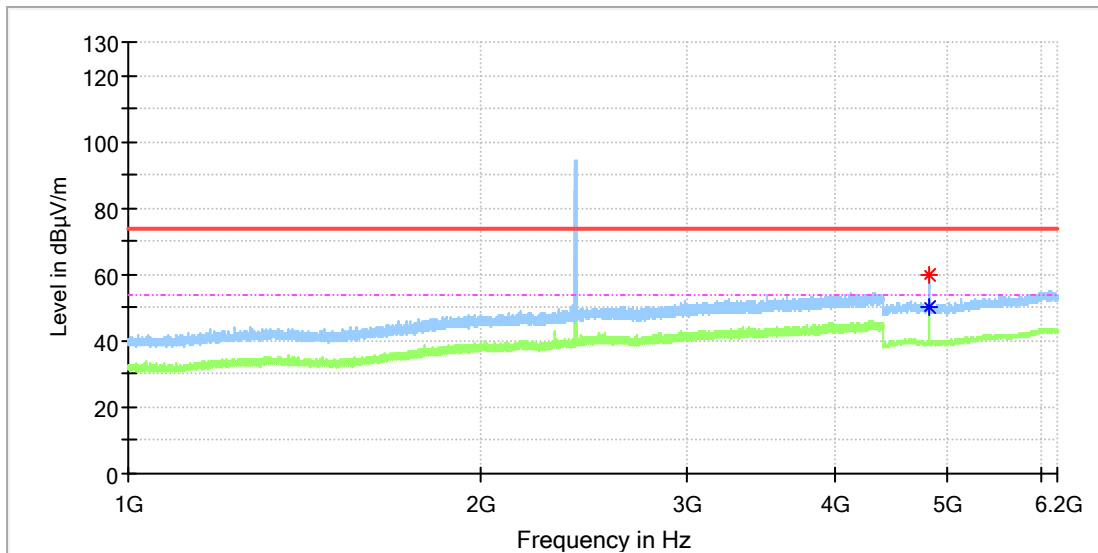


### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.737000	25.03	40.00	14.97	100.0	V	354.0	-19.6
58.421000	26.22	40.00	13.78	100.0	V	332.0	-18.8
104.205000	15.42	43.50	28.08	100.0	V	189.0	-18.8
319.448000	18.56	46.00	27.44	100.0	V	215.0	-15.8
910.517500	30.51	46.00	15.49	100.0	V	56.0	-4.9

### EUT Information

EUT Name: Wireless Controller  
 Model: 6088  
 Test Mode: Low Channel  
 Order No/Sample No: 168404445/A003395764-008  
 Test Voltage:: Battery  
 Remark: Temp 22 Humi:52%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin

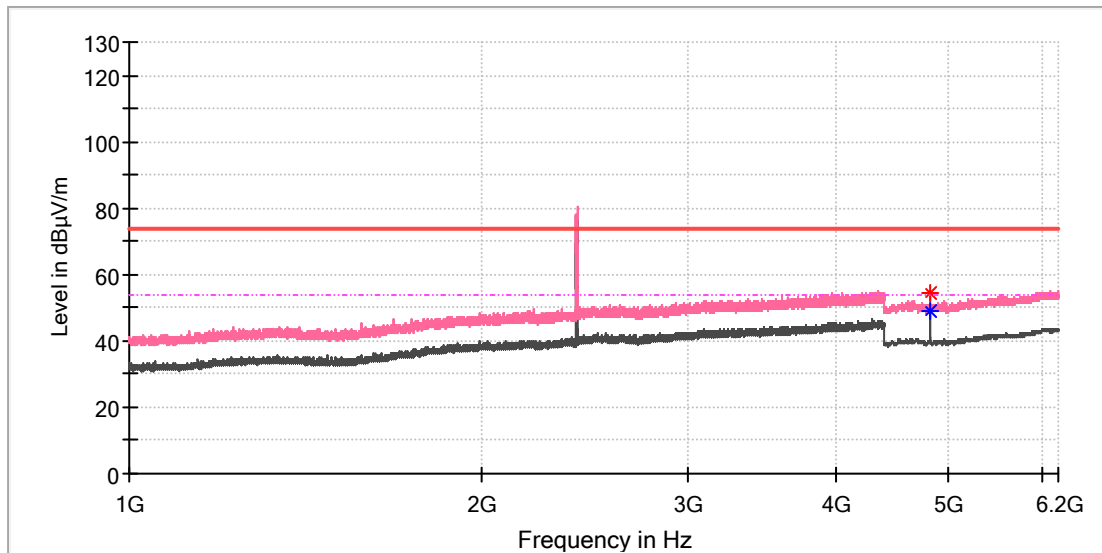


### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4815.500000	60.04	---	74.00	13.96	100.0	H	53.0	11.8
4816.000000	---	50.15	54.00	3.85	100.0	H	255.0	11.8

### EUT Information

EUT Name:	Wireless Controller
Model:	6088
Test Mode:	Low Channel
Order No/Sample No:	168404445/A003395764-008
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

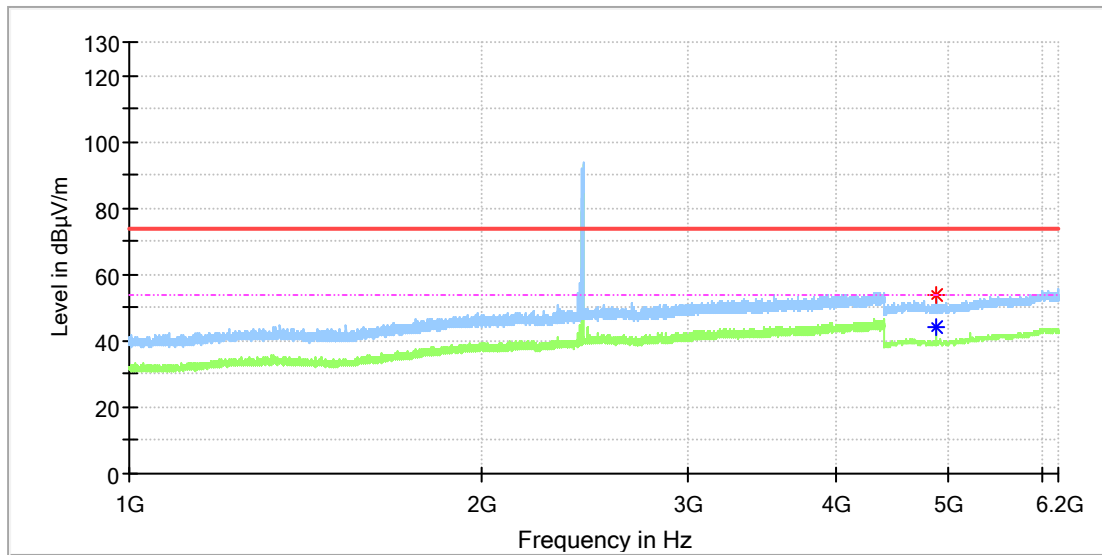


### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4815.000000	54.42	---	74.00	19.58	100.0	V	337.0	11.8
4815.500000	---	48.89	54.00	5.11	100.0	V	337.0	11.8

### EUT Information

EUT Name:	Wireless Controller
Model:	6088
Test Mode:	Middle Channel
Order No/Sample No:	168404445/A003395764-008
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

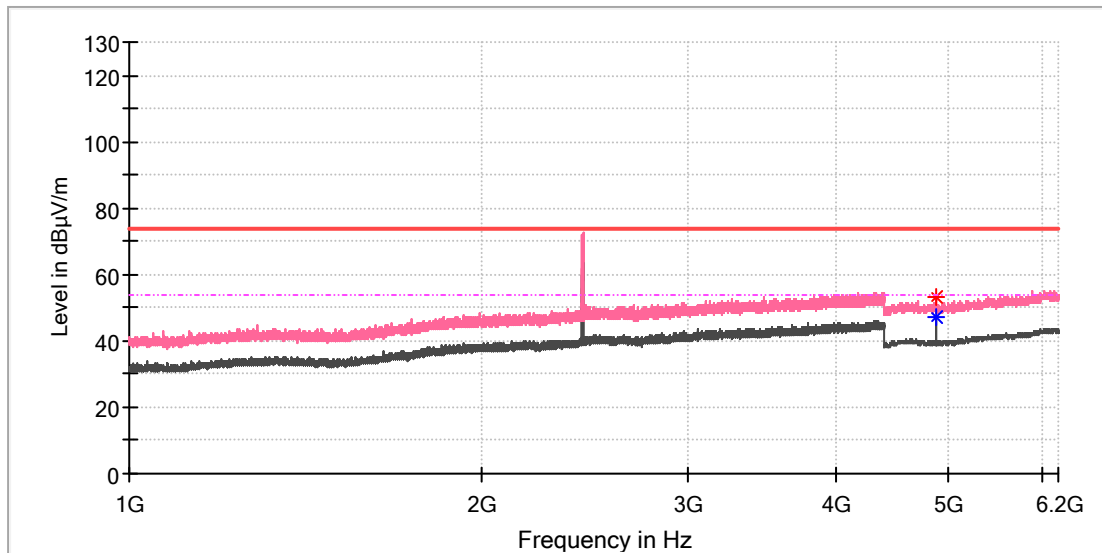


### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.000000	53.94	---	74.00	20.06	100.0	H	71.0	11.8
4874.500000	---	44.25	54.00	9.75	100.0	H	71.0	11.8

### EUT Information

EUT Name:	Wireless Controller
Model:	6088
Test Mode:	Middle Channel
Order No/Sample No:	168404445/A003395764-008
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

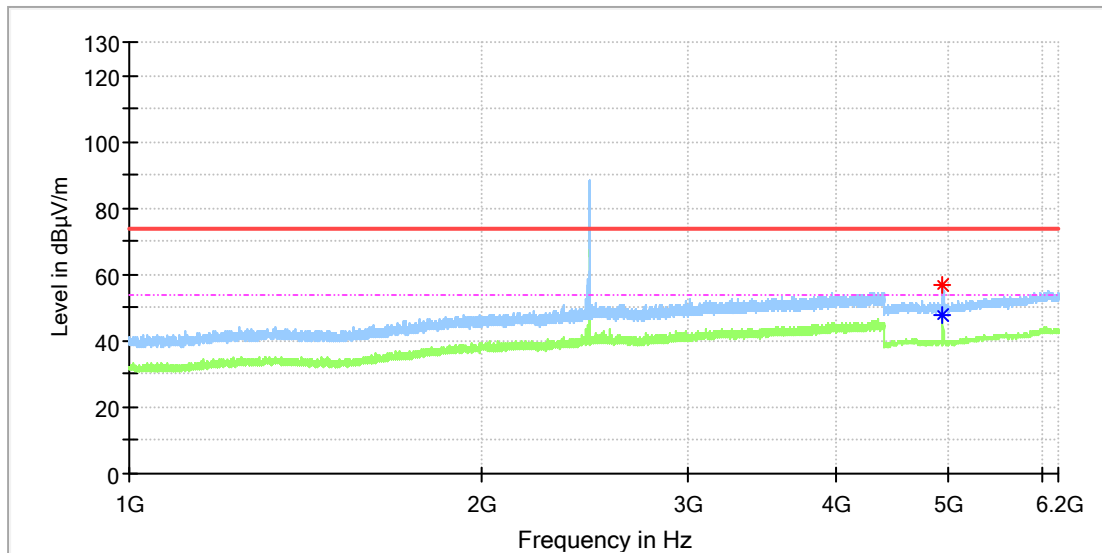


### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4875.500000	---	47.23	54.00	6.77	100.0	V	6.0	11.8
4876.500000	53.37	---	74.00	20.63	100.0	V	6.0	11.8

### EUT Information

EUT Name:	Wireless Controller
Model:	6088
Test Mode:	High Channel
Order No/Sample No:	168404445/A003395764-008
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

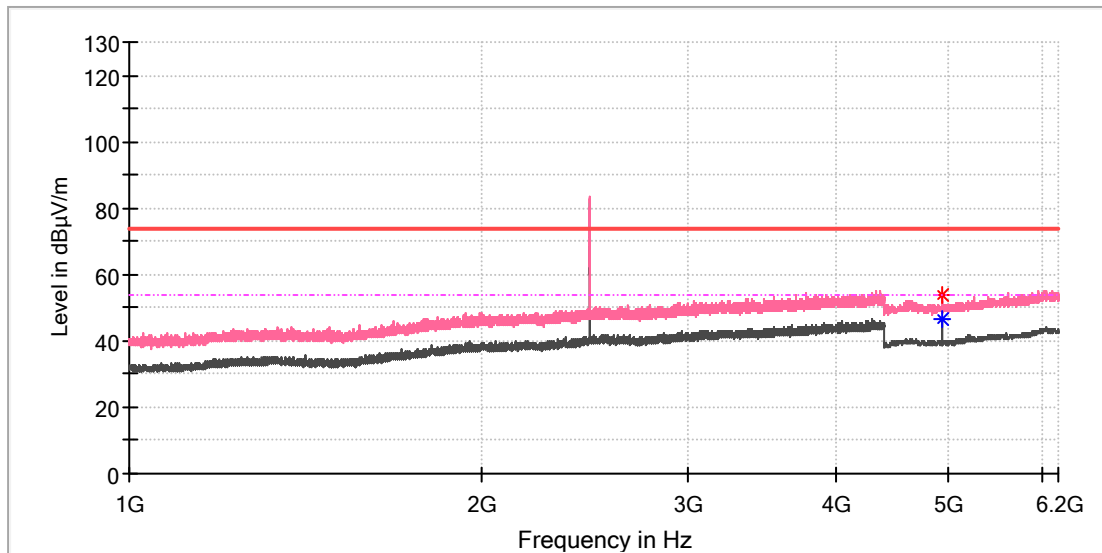


### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4944.000000	56.94	---	74.00	17.06	100.0	H	353.0	11.8
4944.500000	---	47.75	54.00	6.25	100.0	H	353.0	11.8

### EUT Information

EUT Name:	Wireless Controller
Model:	6088
Test Mode:	High Channel
Order No/Sample No:	168404445/A003395764-008
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

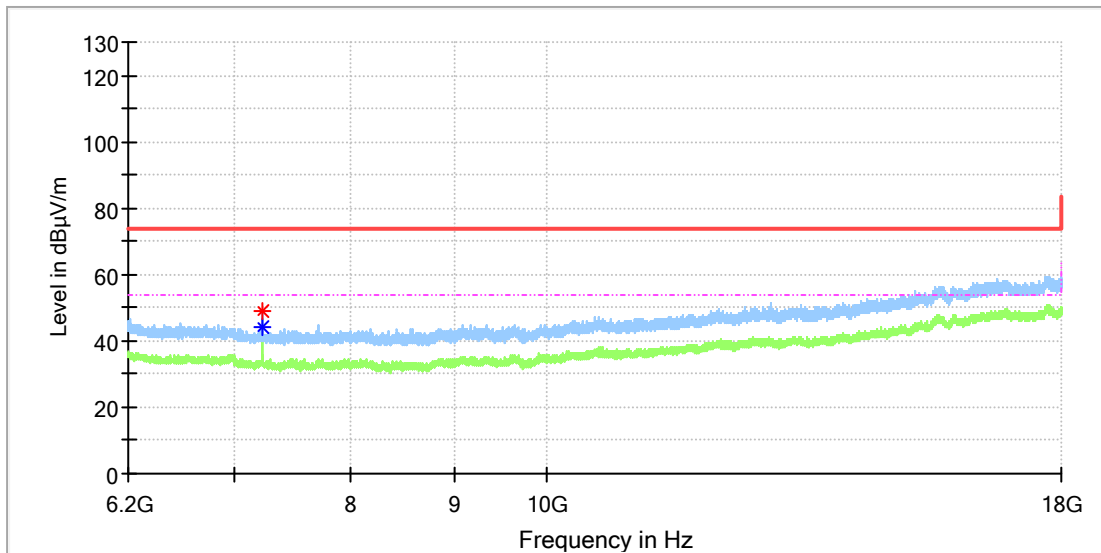


### Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4943.000000	53.61	---	74.00	20.39	100.0	V	288.0	11.8
4943.000000	---	46.47	54.00	7.53	100.0	V	288.0	11.8

### EUT Information

EUT Name:	Wireless Controller
Model:	6088
Test Mode:	Low Channel
Order No/Sample No:	168404445/A003395764-008
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



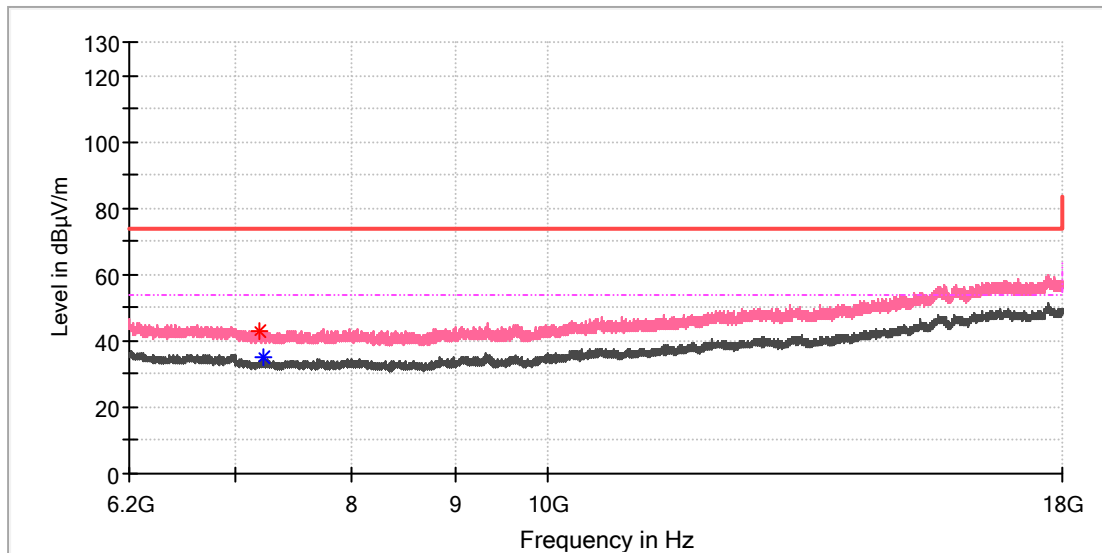
### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7222.666667	48.95	---	74.00	25.05	100.0	H	258.0	8.7
7223.158333	---	44.13	54.00	9.87	100.0	H	258.0	8.7



### EUT Information

EUT Name:	Wireless Controller
Model:	6088
Test Mode:	Low Channel
Order No/Sample No:	168404445/A003395764-008
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

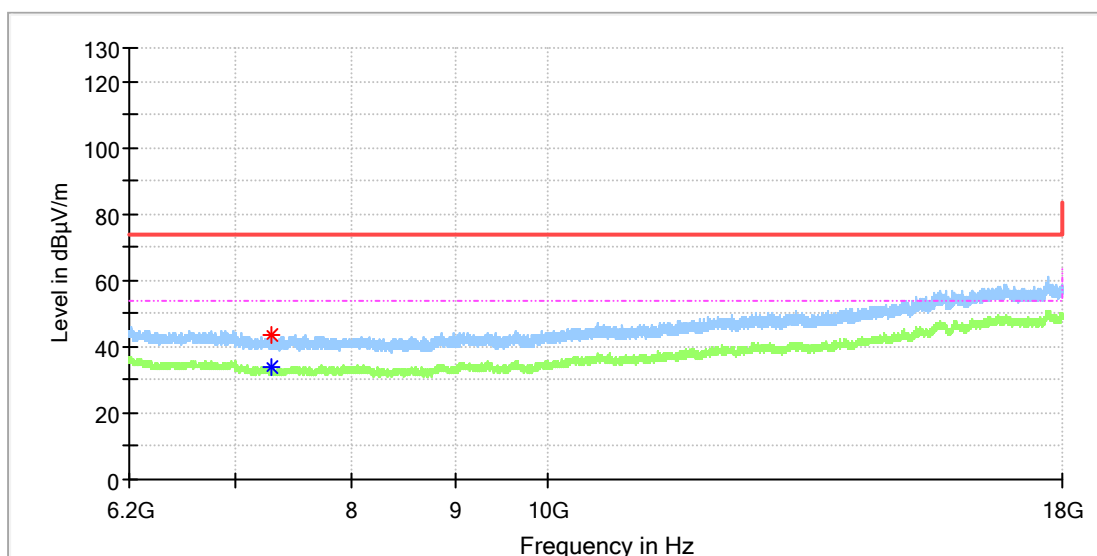


### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7200.050000	43.13	---	74.00	30.87	100.0	V	55.0	8.8
7224.141667	---	34.80	54.00	19.20	100.0	V	226.0	8.7

### EUT Information

EUT Name: Wireless Controller  
 Model: 6088  
 Test Mode: Middle Channel  
 Order No/Sample No: 168404445/A003395764-008  
 Test Voltage:: Battery  
 Remark: Temp 22 Humi:52%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin

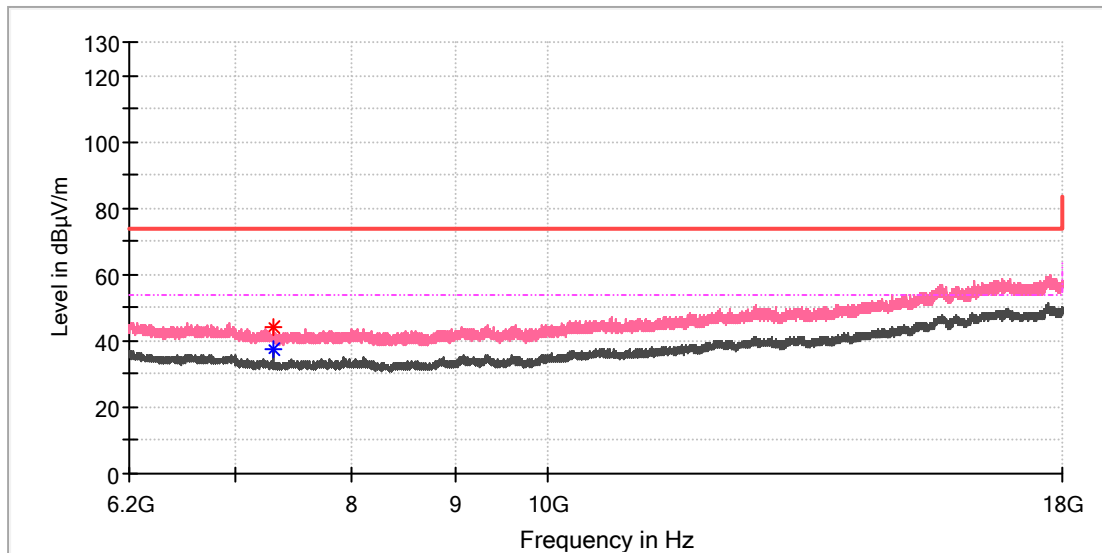


### Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7291.991667	---	33.77	54.00	20.23	100.0	H	73.0	8.3
7299.366667	43.39	---	74.00	30.61	100.0	H	118.0	8.3

### EUT Information

EUT Name:	Wireless Controller
Model:	6088
Test Mode:	Middle Channel
Order No/Sample No:	168404445/A003395764-008
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

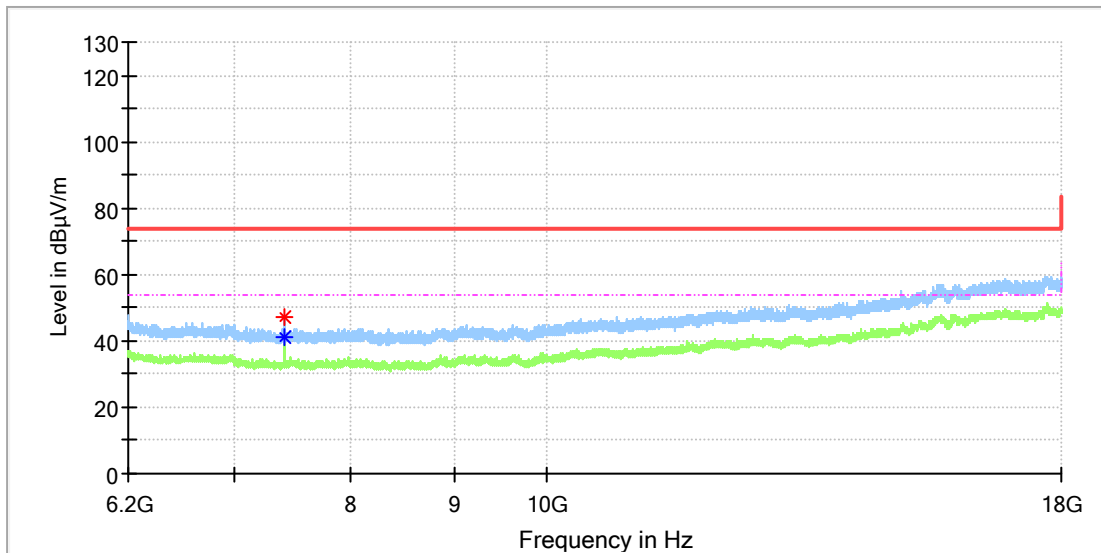


### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7312.641667	---	37.50	54.00	16.50	100.0	V	175.0	8.2
7313.625000	44.02	---	74.00	29.98	100.0	V	175.0	8.2

### EUT Information

EUT Name:	Wireless Controller
Model:	6088
Test Mode:	High Channel
Order No/Sample No:	168404445/A003395764-008
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

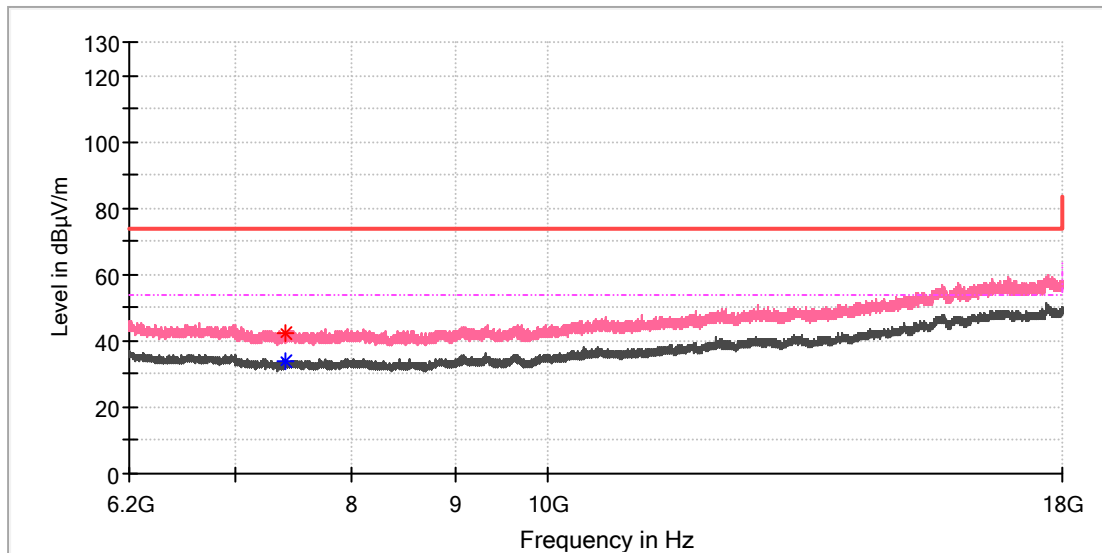


### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7415.400000	46.88	---	74.00	27.12	100.0	H	57.0	8.3
7415.400000	---	40.99	54.00	13.01	100.0	H	57.0	8.3

### EUT Information

EUT Name:	Wireless Controller
Model:	6088
Test Mode:	High Channel
Order No/Sample No:	168404445/A003395764-008
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



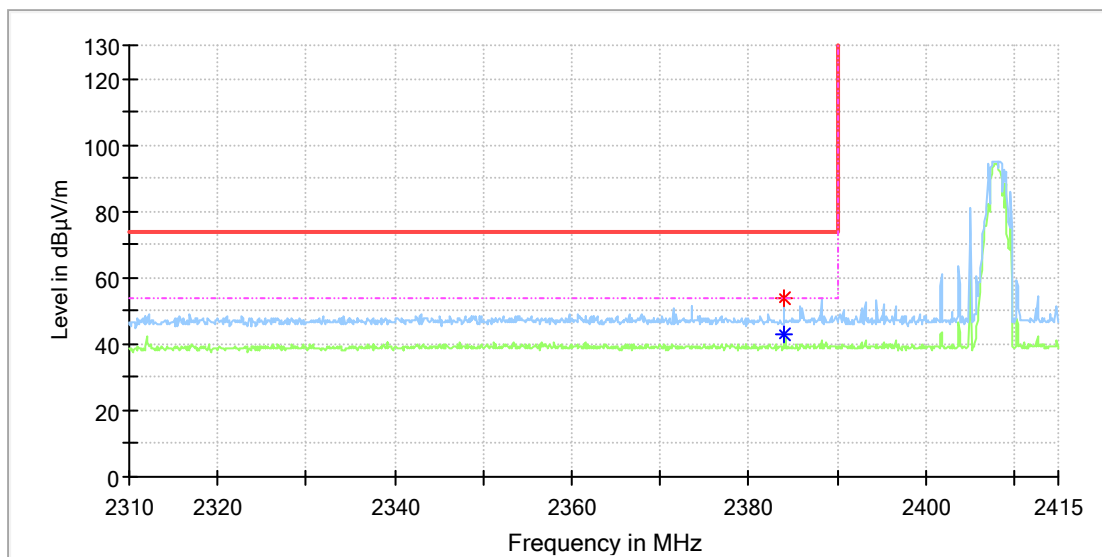
### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7410.483333	42.04	---	74.00	31.96	100.0	V	0.0	8.3
7417.366667	---	33.78	54.00	20.22	100.0	V	0.0	8.3

### Appendix B.6: Test Results of Radiated Emissions in Restricted Bands

#### EUT Information

EUT Name:	Wireless Controller
Model:	6088
Test Mode:	Low Channel
Order No/Sample No:	168404445/A003395764-008
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

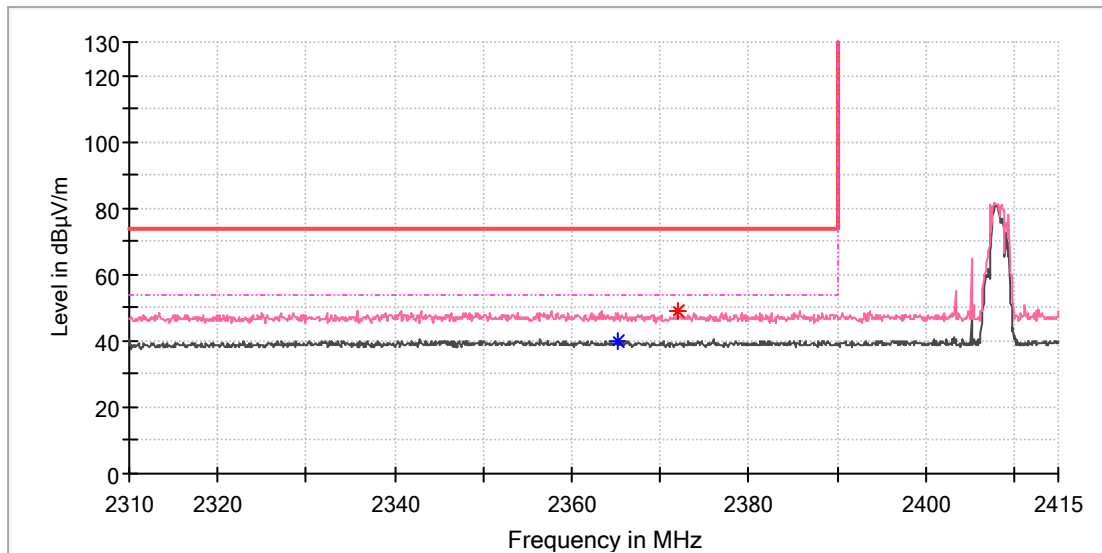


#### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2384.000000	---	42.95	54.00	11.05	100.0	H	59.0	7.0
2384.000000	53.54	---	74.00	20.46	100.0	H	59.0	7.0

### EUT Information

EUT Name:	Wireless Controller
Model:	6088
Test Mode:	Low Channel
Order No/Sample No:	168404445/A003395764-008
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

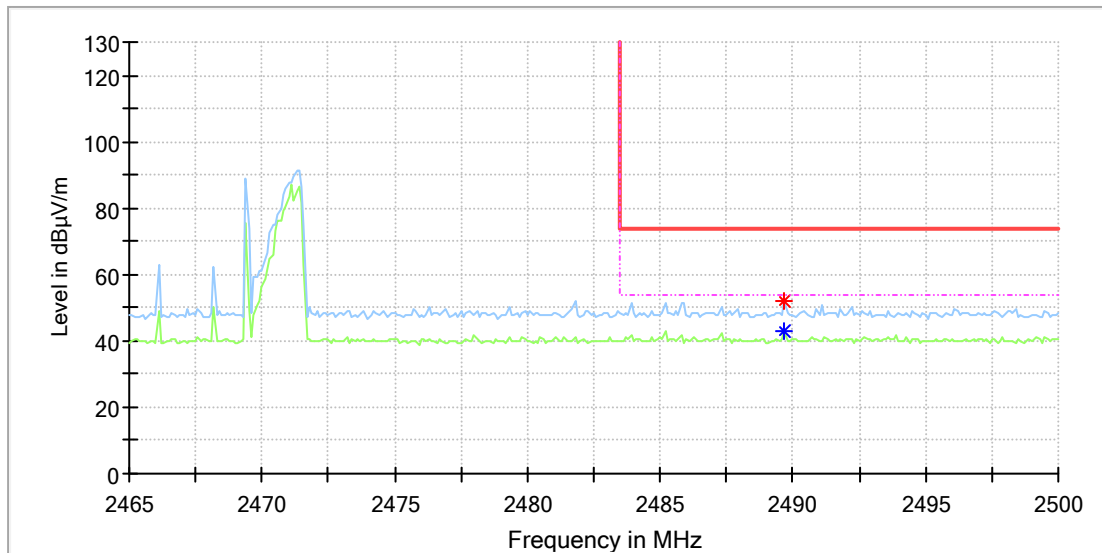


### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2365.300000	---	40.08	54.00	13.92	100.0	V	304.0	6.9
2371.900000	49.01	---	74.00	24.99	100.0	V	80.0	6.9

### EUT Information

EUT Name:	Wireless Controller
Model:	6088
Test Mode:	High Channel
Order No/Sample No:	168404445/A003395764-008
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



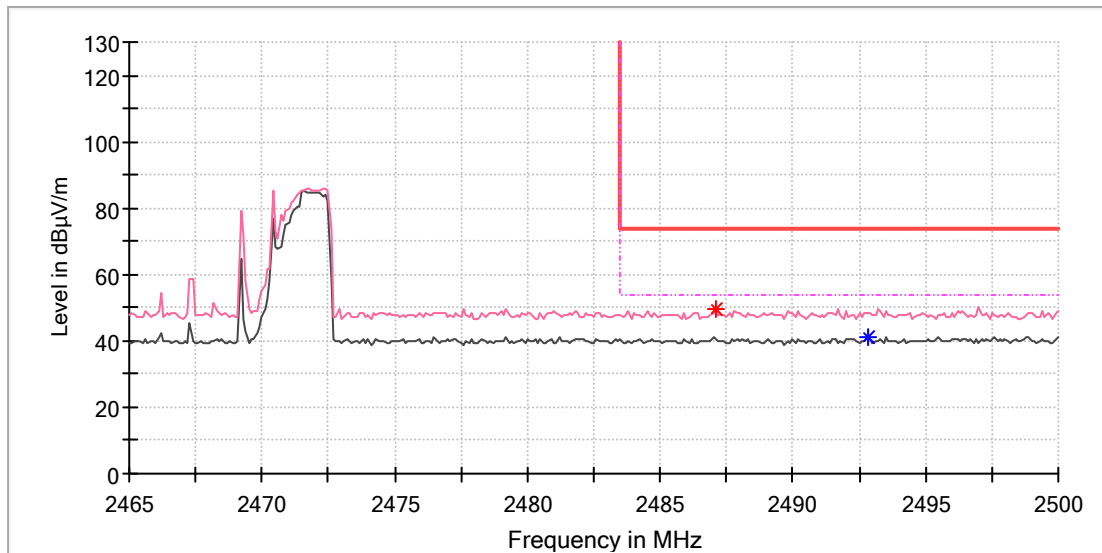
### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2489.700000	---	43.19	54.00	10.81	100.0	H	131.0	7.4
2489.700000	52.28	---	74.00	21.72	100.0	H	131.0	7.4



### EUT Information

EUT Name:	Wireless Controller
Model:	6088
Test Mode:	High Channel
Order No/Sample No:	168404445/A003395764-008
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2487.100000	49.80	---	74.00	24.20	100.0	V	80.0	7.4
2492.800000	---	40.94	54.00	13.06	100.0	V	58.0	7.4

### Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---