

**47 CFR PART 15 SUBPART C TEST REPORT**

**for**

**BT Module**

**Model No.: BTM-10**

**FCC ID: M5X-BTM10**

**of**

Applicant: MIPRO Electronics Co., Ltd.

Address: 814, Beigang Rd., Chiayi City 600079, Taiwan, R.O.C.

Tested and Prepared

by

**Worldwide Testing Services (Taiwan) Co., Ltd.**

**FCC Registration No.: TW1477, TW0020, TW1072**

**Industry Canada filed test laboratory Reg. No. 20037**



**Report No.: W6M22102-20652-C-1**

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.  
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## **TABLE OF CONTENTS**

|                                                                                   |           |
|-----------------------------------------------------------------------------------|-----------|
| <b>CERTIFICATION OF TEST REPORT .....</b>                                         | <b>2</b>  |
| <b>1 GENERAL INFORMATION .....</b>                                                | <b>2</b>  |
| 1.1 Notes .....                                                                   | 2         |
| 1.2 Testing laboratory .....                                                      | 3         |
| 1.2.1 Location .....                                                              | 3         |
| 1.2.2 Details of accreditation status .....                                       | 3         |
| 1.3 Details of approval holder.....                                               | 3         |
| 1.4 Application details .....                                                     | 3         |
| 1.5 General information of Test item.....                                         | 4         |
| 1.6 Test standards .....                                                          | 5         |
| <b>2 TECHNICAL TEST .....</b>                                                     | <b>6</b>  |
| 2.1 Summary of test results .....                                                 | 6         |
| 2.2 Test environment.....                                                         | 6         |
| 2.3 Test Equipment List.....                                                      | 7         |
| 2.4 General Test Procedure .....                                                  | 10        |
| <b>3 TEST RESULTS (ENCLOSURE) .....</b>                                           | <b>12</b> |
| 3.1 Peak Output Power (transmitter) .....                                         | 13        |
| 3.2 Equivalent Isotropic Radiated Power (EIRP).....                               | 17        |
| 3.3 Exemption Limits for Routine Evaluation according to FCC KDB Publication..... | 17        |
| 3.4 Transmitter Radiated Emissions in restricted Bands.....                       | 18        |
| 3.5 Spurious emissions (tx).....                                                  | 19        |
| 3.6 Carrier Frequency Separation .....                                            | 21        |
| 3.7 Number of Hopping Frequencies .....                                           | 24        |
| 3.8 Time of Occupancy (Dwell Time) .....                                          | 27        |
| 3.9 20dB Bandwidth .....                                                          | 33        |
| 3.10 Band-edge Compliance of RF Emissions.....                                    | 37        |
| 3.11 Radiated Emissions from Receiver Part .....                                  | 42        |
| 3.12 Power Line Conducted Emission .....                                          | 43        |



# **Worldwide Testing Services(Taiwan) Co., Ltd.**

Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

## **1 General Information**

### **1.1 Notes**

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.

The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.5.

The test report may only be reproduced or published in full.

Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services(Taiwan) Co., Ltd.

### **Tester:**

April 21, 2021

Spencer Yang

Date

WTS-Lab.

Name

Signature

### **Technical responsibility for area of testing:**

April 21, 2021

Kevin Wang

Date

WTS

Name

Signature



# **Worldwide Testing Services(Taiwan) Co., Ltd.**

Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

## **1.2 Testing laboratory**

### **1.2.1 Location**

OATS

No.5-1, Lishui, Shuang Sing Village,  
Wanli Dist., New Taipei City 207,  
Taiwan (R.O.C.)

3 meter semi-anechoic chamber

No.35, Aly. 21, Ln. 228, Ankang Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

TEL:886-2-6613-0228

FAX:886-2-2791-5046

Company

Worldwide Testing Services(Taiwan) Co., Ltd.

6F, NO. 58, LANE 188, RUEY-KUANG RD.

NEIHU, TAIPEI 114, TAIWAN R.O.C.

Tel : 886-2-66068877

Fax : 886-2-66068879

### **1.2.2 Details of accreditation status**

Accredited testing laboratory

FCC filed test laboratory Reg. No. TW1477, TW0020, TW1072

Industry Canada filed test laboratory Reg. No. 20037

**Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd. :**

Name: ./.

Accredited number: ./.

Street: ./.

Town: ./.

Country: ./.

Telephone: ./.

Fax: ./.

## **1.3 Details of approval holder**

Name: MIPRO Electronics Co., Ltd.

Street: 814, Beigang Rd.,

Town: Chiayi City 600079,

Country: Taiwan, R.O.C.

Telephone: +886-5-238-0809

Fax: +886-5-238-0803

## **1.4 Application details**

Date of receipt of test item: March 10, 2021

Date of test: from March 10, 2021 to March 23, 2021



# **Worldwide Testing Services(Taiwan) Co., Ltd.**

Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

## **1.5 General information of Test item**

Type of test item: BT Module

Model Number: BTM-10

Multi-listing model number: MA-XXXXXXX, BTX-XXXXXXX (X= 0-9, a~z, A-Z or Blank)

Photos: see Annex

### **Technical data**

Frequency band: 2402 - 2480 MHz

Frequency (ch A): 2402 MHz

Frequency (ch B): 2441 MHz

Frequency (ch C): 2480 MHz

### **Transmitter**

### **Unom**

Normal Mode

Power ( ch 0): Conducted: 2.95 dBm

Power ( ch 39): Conducted: 4.01 dBm

Power ( ch 78): Conducted: 4.82 dBm

EDR Mode

Power ( ch 0): Conducted: 0.76 dBm

Power ( ch 39): Conducted: 2.14 dBm

Power ( ch 78): Conducted: 3.26 dBm

Power supply: DC 8V

Operation modes: Duplex

Modulation Type: GFSK 、  $\pi$  / 4DQPSK 、 8DPSK

Antenna Type: PIFA Antenna

Antenna gain: 2 dBi (Testing laboratory assumes no responsibility for affecting any validity of the result while the information which is provided by clients.)

Host device: none

Classification:

|                                              |                                     |
|----------------------------------------------|-------------------------------------|
| Fixed Device                                 | <input type="checkbox"/>            |
| Mobile Device (Human Body distance > 20cm)   | <input type="checkbox"/>            |
| Portable Device (Human Body distance < 20cm) | <input checked="" type="checkbox"/> |
| Modular Radio Device                         | <input type="checkbox"/>            |



# **Worldwide Testing Services(Taiwan) Co., Ltd.**

Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

**Manufacturer: (if applicable)**

Name: ./.

Street: ./.

Town: ./.

Country: ./.

## **1.6 Test standards**

Technical standard : 47 CFR PART 15 SUBPART C § 15.247 (2019-10)



Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

## **2 Technical test**

### **2.1 Summary of test results**

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



**or**

The deviations were ascertained in the course of the tests performed.



### **2.2 Test environment**

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Details of power supply: DC 8V

Extreme conditions parameters: test voltage : -- extreme  
min : -- V  
max : -- V

| Test item Name                                                                                                                              | Uncertainty                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Estimation Result of Uncertainty of Conducted Emission                                                                                      | Expanded Uncertainty :<br>AMN : 1.05 dB<br>Voltage probe : 1.05 dB                                                     |
| Estimation Result of Uncertainty of Radiated Emission(3M)                                                                                   | Expanded Uncertainty :<br>0.009-30 MHz : 2.13 dB<br>30-1000 MHz : 3.53 dB<br>1-18 GHz : 4.19 dB<br>18-40 GHz : 4.09 dB |
| Estimation Result of Uncertainty of Bandwidth Measurement<br>20 dB Bandwidth, Occupied bandwidth, Channel bandwidth,<br>Necessary Bandwidth | Expanded Uncertainty : 0.41 kHz                                                                                        |
| Estimation Result of Uncertainty of Conducted Output Power<br>Measurement Output power                                                      | Expanded Uncertainty : 1.61 dB                                                                                         |
| Estimation Result of Uncertainty of Band Edge Measurement                                                                                   | Expanded Uncertainty : 1.33 dBc                                                                                        |
| Estimation Result of Uncertainty of Frequency Separation<br>Measurement Hopping channel separation                                          | Expanded Uncertainty : 554.14 Hz                                                                                       |
| Estimation Result of Uncertainty of Duty Cycle Measurement<br>Dwell time                                                                    | Expanded Uncertainty : 0.1 ms                                                                                          |

The decision rule is: Measurement uncertainty is not included in the calculation of test results.



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Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

## 2.3 Test Equipment List

| No.          | Test equipment                                      | Type            | Serial No.  | Manufacturer | Cal. Date     | Next Cal. Date |
|--------------|-----------------------------------------------------|-----------------|-------------|--------------|---------------|----------------|
| ETSTW-CE 001 | EMI TEST RECEIVER                                   | ESHS10          | 842121/013  | R&S          | 2020/6/11     | 2021/6/10      |
| ETSTW-CE 003 | AC POWER SOURCE                                     | APS-9102        | D161137     | GW           | Function Test |                |
| ETSTW-CE 004 | ZWEILEITER-V-NETZNACHBILDUNG<br>TWO-LINE V-NETWORK  | ESH3-Z5         | 840731/011  | R&S          | 2020/11/6     | 2021/11/5      |
| ETSTW-CE 006 | IMPULSBEGRENZER<br>PULSE LIMITER                    | ESH3-Z2         | 100226      | R&S          | 2020/9/22     | 2021/9/21      |
| ETSTW-CE 008 | HF-EICHLLEITUNG RF<br>STEP ATTENUATOR<br>139dB DPSP | 334.6010.02     | 844581/024  | R&S          | Function Test |                |
| ETSTW-CE 009 | TEMP.&HUMIDITY<br>CHAMBER                           | GTH-225-40-1P-U | MAA0305-009 | GIANT FORCE  | 2020/7/22     | 2021/7/21      |
| ETSTW-CE 016 | TWO-LINE V-NETWORK                                  | ENV216          | 100050      | R&S          | 2020/10/26    | 2021/10/25     |
| ETSTW-CE 028 | MXE EMI Receiver                                    | N9038A          | MY53220110  | Agilent      | 2020/7/29     | 2021/7/28      |
| ETSTW-RE 003 | EMI TEST RECEIVER                                   | ESI 26          | 831438/001  | R&S          | 2020/6/12     | 2021/6/11      |
| ETSTW-RE 004 | EMI TEST RECEIVER                                   | ESI 40          | 832427/004  | R&S          | 2020/9/14     | 2021/9/13      |
| ETSTW-RE 012 | TUNABLE BANDREJECT<br>FILTER                        | D.C 0309        | 146         | K&L          | Function Test |                |
| ETSTW-RE 013 | TUNABLE BANDREJECT<br>FILTER                        | D.C 0336        | 397         | K&L          | Function Test |                |
| ETSTW-RE 018 | MICROWAVE HORN<br>ANTENNA                           | AT4560          | 27212       | AR           | 2020/7/30     | 2021/7/29      |
| ETSTW-RE 019 | MICROWAVE HORN<br>ANTENNA                           | 22240-25        | 121074      | FM           | 2020/5/15     | 2021/5/14      |
| ETSTW-RE 027 | Passive Loop Antenna                                | 6512            | 00034563    | ETS-Lindgren | 2020/7/8      | 2021/7/7       |
| ETSTW-RE 030 | Double-Ridged Guide Horn<br>Antenna                 | 3117            | 00035224    | ETS-Lindgren | 2020/4/22     | 2021/4/21      |
| ETSTW-RE 042 | Biconical Antenna                                   | HK116           | 100172      | R&S          | 2021/3/18     | 2022/3/17      |
| ETSTW-RE 043 | Log-Periodic Dipole<br>Antenna                      | HL223           | 100166      | R&S          | 2020/5/8      | 2021/5/7       |
| ETSTW-RE 044 | Log-Periodic Antenna                                | HL050           | 100094      | R&S          | 2020/8/3      | 2021/8/2       |
| ETSTW-RE 045 | ESA-E SERIES<br>SPECTRUM ANALYZER                   | E4404B          | MY45111242  | Agilent      | Pre-test Use  |                |
| ETSTW-RE 050 | Attenuator 10dB                                     | 50HF-010-1      | None        | JFW          | 2021/2/19     | 2022/2/18      |
| ETSTW-RE 051 | Attenuator 6dB                                      | 50HF-006-1      | None        | JFW          | 2021/2/19     | 2022/2/18      |
| ETSTW-RE 053 | Attenuator 3dB                                      | 50HF-003-1      | None        | JFW          | 2021/2/19     | 2022/2/18      |
| ETSTW-RE 055 | SPECTRUM ANALYZER                                   | FSU 26          | 200074      | R&S          | 2021/3/16     | 2022/3/15      |
| ETSTW-RE 060 | Attenuator 30dB                                     | 5015-30         | F651012z-01 | ATM          | 2021/2/19     | 2022/2/18      |
| ETSTW-RE 062 | Amplifier Module                                    | CHC 2           | None        | KMIC         | 2020/5/15     | 2021/5/14      |
| ETSTW-RE 064 | Bluetooth Test Set                                  | MT8852B-042     | 6K00005709  | Anritsu      | Function Test |                |
| ETSTW-RE 069 | Double-Ridged Guide Horn<br>Antenna                 | 3117            | 00069377    | ETS-Lindgren | Function Test |                |
| ETSTW-RE 072 | CELL SITE TEST SET                                  | 8921A           | 3339A00375  | HP           | 2020/10/15    | 2021/10/14     |
| ETSTW-RE 088 | SOLID STATE<br>AMPLIFIER                            | KMA180265A01    | 99057       | KMIC         | 2020/9/17     | 2021/9/16      |
| ETSTW-RE 091 | Match Pad                                           | MDCS1500        | None        | WOKEN        | 2020/5/22     | 2021/5/21      |
| ETSTW-RE 099 | DC Block                                            | 50DB-007-1      | None        | JFW          | 2021/2/19     | 2022/2/18      |
| ETSTW-RE 112 | AC POWER SOURCE                                     | TFC-1005        | T-0A023536  | T-Power      | Function test |                |





# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

|                 |                                      |                                        |                 |                    |                  |            |
|-----------------|--------------------------------------|----------------------------------------|-----------------|--------------------|------------------|------------|
| ETSTW-RE 115    | 2.4GHz Notch Filter                  | N0124411                               | 473874          | MICROWAVE CIRCUITS | 2021/1/6         | 2022/1/5   |
| ETSTW-RE 120    | RF Player                            | MP9200                                 | MP9210-111022   | ADIVIC             | 2020/12/25       | 2021/12/24 |
| ETSTW-RE 122    | SIGNAL GENERATOR                     | SMF100A                                | 102149          | R&S                | 2020/6/11        | 2021/6/10  |
| ETSTW-RE 125    | 5GHz Notch filter                    | 5NSL11-5200/E221.3-O/O                 | 1               | K&L Microwave      | 2020/8/7         | 2021/8/6   |
| ETSTW-RE 126    | 5GHz Notch filter                    | 5NSL12-5800/E221.3-O/O                 | 1               | K&L Microwave      | 2020/8/7         | 2021/8/6   |
| ETSTW-RE 127    | RF Switch Box                        | RFS-01                                 | None            | WTS                | 2021/2/19        | 2022/2/18  |
| ETSTW-RE 128    | 5.3GHz Notch filter                  | N0153001                               | SN487233        | Microwave Circuits | 2020/8/7         | 2021/8/6   |
| ETSTW-RE 129    | 5.5GHz Notch filter                  | N0555984                               | SN487234        | Microwave Circuits | 2020/8/7         | 2021/8/6   |
| ETSTW-RE 130    | Handheld RF Spectrum Analyzer        | N9340A                                 | CN0147000204    | Agilent            | Pre-test Use     |            |
| ETSTW-RE 142    | Amplifier                            | 8447D                                  | 2805A03378      | Agilent            | 2020/5/15        | 2021/5/14  |
| ETSTW-RE 146    | Preamplifier                         | JPA-10M1G                              | 15090004        | JPT                | 2020/6/5         | 2021/6/4   |
| ETSTW-RE 147    | Bi-log Hybrid Antenna                | MCTD 2786B                             | BLB16M04005     | ETC                | 2020/4/9         | 2021/4/8   |
| ETSTW-RE 148    | Bi-log Hybrid Antenna                | MCTD 2786B                             | BLB16M04006     | ETC                | 2020/7/9         | 2021/7/8   |
| ETSTW-RE 153    | Signal Analyzer                      | FSV40                                  | 101929          | R&S                | 2020/10/1        | 2021/9/30  |
| ETSTW-RF 002    | Electromagnetic field probe          | LF-30                                  | K-0007          | STT                | 2020/6/9         | 2021/6/8   |
| ETSTW-EMI 011   | USB Compact Modulator                | SFC-U                                  | 101689          | R&S                | 2020/5/21        | 2021/5/20  |
| ETSTW-GSM 002   | Universal Radio Communication Tester | CMU 200                                | 109439          | R&S                | 2021/3/16        | 2022/3/15  |
| ETSTW-GSM 003   | Radio Communication Analyzer         | MT8820C                                | 6201342073      | Anritsu            | 2020/4/20        | 2021/4/19  |
| ETSTW-GSM 004   | Wideband Radio Communication Tester  | CMW500                                 | 128092          | R&S                | 2020/11/10       | 2021/11/9  |
| ETSTW-GSM 019   | Band Reject Filter                   | WRCTF824/849-822/851-40 /12+9SS        | 3               | WI                 | 2021/1/6         | 2022/1/5   |
| ETSTW-GSM 020   | Band Reject Filter                   | WRCD1747/1748-1743/1752-32/5SS         | 1               | WI                 | 2021/1/6         | 2022/1/5   |
| ETSTW-GSM 021   | Band Reject Filter                   | WRCD1879.5/1880.5-1875.5/1884.5-32/5SS | 3               | WI                 | 2021/1/6         | 2022/1/5   |
| ETSTW-GSM 022   | Band Reject Filter                   | WRCT901.9/903.1-904.25-50/8SS          | 1               | WI                 | 2021/1/6         | 2022/1/5   |
| ETSTW-GSM 023   | Power Divider                        | 4901.19.A                              | None            | SUHNER             | 2020/9/8         | 2021/9/7   |
| ETSTW-GSM 024   | Radio Communication Analyzer         | MT8821C                                | None            | Anritsu            | 2021/3/24        | 2022/3/23  |
| ETSTW-GSM 025   | Band Reject Filter                   | BRM19835                               | 001             | Micro-Tronics      | 2020/8/7         | 2021/8/6   |
| ETSTW-Cable 011 | SMA to N type Cable                  | RGU-400                                | None            | THERMAX            | Pre-test Use NCR |            |
| ETSTW-Cable 016 | BNC Cable                            | Switch Box                             | B Cable 1       | Schwarz beck       | 2021/2/19        | 2022/2/18  |
| ETSTW-Cable 017 | BNC Cable                            | X Cable                                | B Cable 2       | Schwarz beck       | 2021/2/19        | 2022/2/18  |
| ETSTW-Cable 018 | BNC Cable                            | Y Cable                                | B Cable 3       | Schwarz beck       | 2021/2/19        | 2022/2/18  |
| ETSTW-Cable 019 | BNC Cable                            | Z Cable                                | B Cable 4       | Schwarz beck       | 2021/2/19        | 2022/2/18  |
| ETSTW-Cable 020 | N TYPE Cable                         | OATS Cable 1                           | N30N30-L335-15M | JYE BAO CO.,LTD.   | 2020/7/1         | 2021/6/30  |
| ETSTW-Cable 027 | Microwave Cable                      | SUCOFLEX 104                           | 279083          | HUBER+SUHNER       | 2020/5/8         | 2021/5/7   |
| ETSTW-Cable 028 | Microwave Cable                      | FA147A0015M2020                        | 30064-2         | UTIFLEX            | 2020/9/17        | 2021/9/16  |
| ETSTW-Cable 029 | Microwave Cable                      | FA147A0015M2020                        | 30064-3         | UTIFLEX            | 2020/9/17        | 2021/9/16  |
| ETSTW-Cable 030 | Microwave Cable                      | SUCOFLEX 104 (S Cable 9)               | 279067          | HUBER+SUHNER       | 2021/2/20        | 2022/2/19  |



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Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

|                 |                          |                       |          |              |                  |           |
|-----------------|--------------------------|-----------------------|----------|--------------|------------------|-----------|
| ETSTW-Cable 043 | Microwave Cable          | SUCOFLEX 104          | 317576   | HUBER+SUHNER | 2020/5/15        | 2021/5/14 |
| ETSTW-Cable 047 | Microwave Cable          | SUCOFLEX 104          | 325518   | HUBER+SUHNER | 2020/7/3         | 2021/7/2  |
| ETSTW-Cable 058 | Microwave Cable          | SUCOFLEX 104          | none     | HUBER+SUHNER | 2020/6/5         | 2021/6/4  |
| ETSTW-Cable 064 | Microwave Cable          | SUCOFLEX 104          | MY28891  | HUBER+SUHNER | 2020/5/15        | 2021/5/14 |
| ETSTW-Cable 071 | N TYPE CABLE             | EMCCFD400-NM-NM-25000 | 170239   | EMCI         | 2020/6/5         | 2021/6/4  |
| ETSTW-Cable 072 | SMA type cable (8m)      | SUCOFLEX 104          | 805800/4 | HUBER+SUHNER | 2020/5/15        | 2021/5/14 |
| ETSTW-Cable 074 | SMA type cable (2m)      | SUCOFLEX 104          | 802563/4 | HUBER+SUHNER | 2020/5/15        | 2021/5/14 |
| WTSTW-SW 002    | EMI TEST SOFTWARE        | EZ EMC                | None     | Farad        | Version ETS-03A1 |           |
| WTSTW-SW 006    | EMI TEST SOFTWARE        | e3                    | None     | AUDIX        | Version 9.161014 |           |
| WTSTW-SW 008    | Signal studio            | Agilent               | None     | AUDIX        | Version 2.0.0.1  |           |
| ETSTW-TH 002    | Thermohygrometer         | 608-H1                | 45204317 | Testo        | 2020/9/23        | 2021/9/22 |
| ETSTW-TH 003    | Wireless weather station | GAIA                  | N/A      | TFA          | 2020/12/3        | 2021/12/2 |



Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

## **2.4 General Test Procedure**

**POWER LINE CONDUCTED INTERFERENCE:** The procedure used was ANSI STANDARD C63.10-2013 6.2 using a LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

**RADIATION INTERFERENCE:** The test procedure used was according to ANSI STANDARD C63.10-2013 6.3 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The ambient temperature of the UUT was 23°C with a humidity of 40 %.

**FORMULA OF CONVERSION FACTORS:** The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBμV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

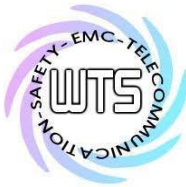
|            |                                                         |
|------------|---------------------------------------------------------|
| Freq (MHz) | METER READING + ACF + CABLE LOSS (to the receiver) = FS |
| 33         | 20 dBμV + 10.36 dB + 6 dB = 36.36 dBμV/m @3m            |

The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.10-2013 6.2.2. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
- (4) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a)(1)-(a)(3) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this Section, whichever is the higher frequency range of investigation.

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.



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Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

When the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

The formula is as follows:

Average = Peak + Duty Factor

Duty Factor =  $20 \log (\text{dwell time}/T)$

$T = 100\text{ms}$  when the pulse train period is over 100 ms or the period of the pulse train.

Modified Limits for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

ANSI STANDARD C63.10-2013 B.2.7: Any measurements that utilize special test software shall be indicated and referenced in the test report. During testing, test software 'EZ EMC' was used for setting up different operation modes.



# ***Worldwide Testing Services(Taiwan) Co., Ltd.***

Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

## **3 Test results (enclosure)**

| TEST CASE                                            | Para. Number     | Required                            | Test passed                         | Test failed              |
|------------------------------------------------------|------------------|-------------------------------------|-------------------------------------|--------------------------|
| Peak Output Power                                    | 15.247(b)        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Equivalent radiated Power                            | 15.247(b)        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Spurious Emissions radiated – Transmitter operating  | 15.247(d)        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Spurious Emissions conducted – Transmitter operating | 15.247           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |
| Carrier Frequency Separation                         | 15.247(a) (1)    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Number of Hopping Frequencies                        | 15.247(a) (1)(i) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Time of Occupancy (Dwell Time)                       | 15.247(a) (1)(i) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 20 dB Bandwidth                                      | 15.247(a) (1)(i) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Band-edge Compliance of RF Emission                  | 15.247(d)        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Radiated Emission from Receiver Part                 | 15.109           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Power Line Conducted Emission                        | 15.207(a)        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |

The follows is intended to leave blank.



Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

## 3.1 Peak Output Power (transmitter)

FCC Rule: 15.247

This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

The power was measured with modulation (declared by the applicant).

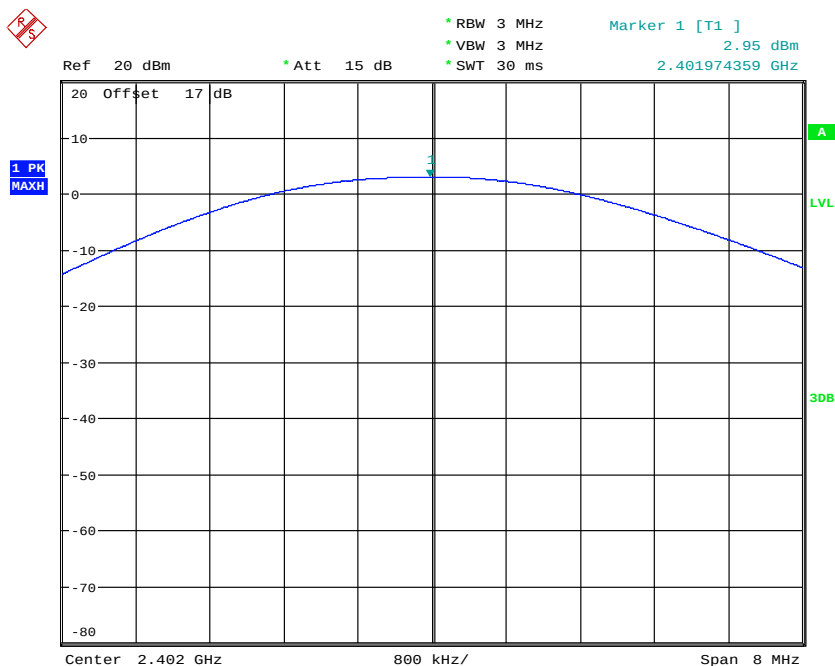
Test date: March 16, 2021

Temperature: 22.5°C

Humidity: 56.0 %

Tester: Spencer

Normal mode

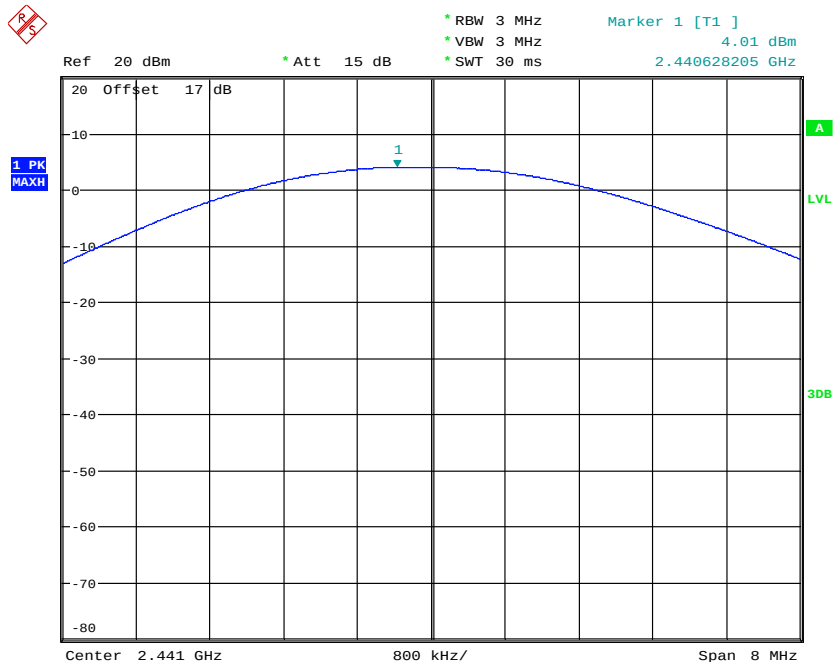


MAX OUTPUT POWER CH0

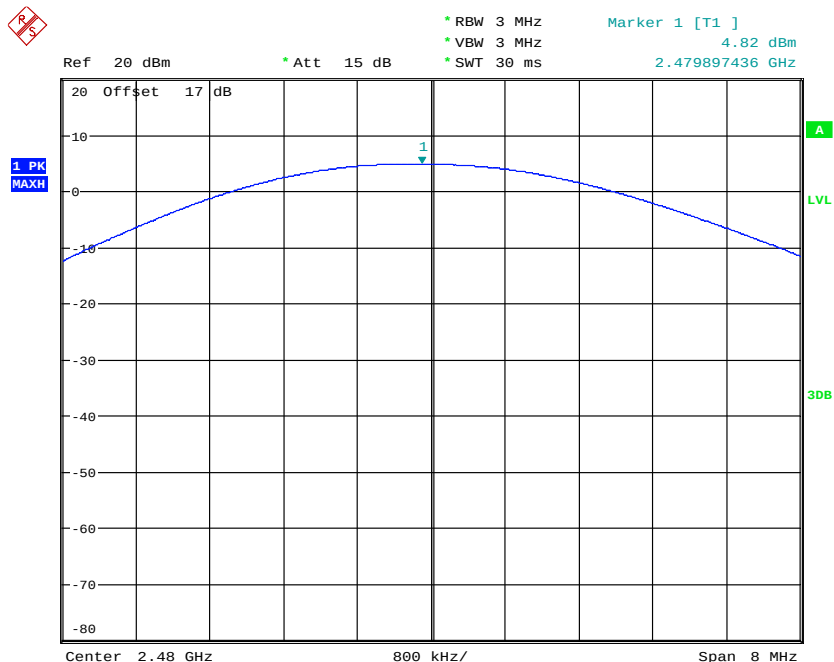
Date: 16.MAR.2021 10:30:41



Registration number: W6M22102-20652-C-1  
FCC ID: M5X-BTM10



MAX OUTPUT POWER CH39  
Date: 16.MAR.2021 10:31:13



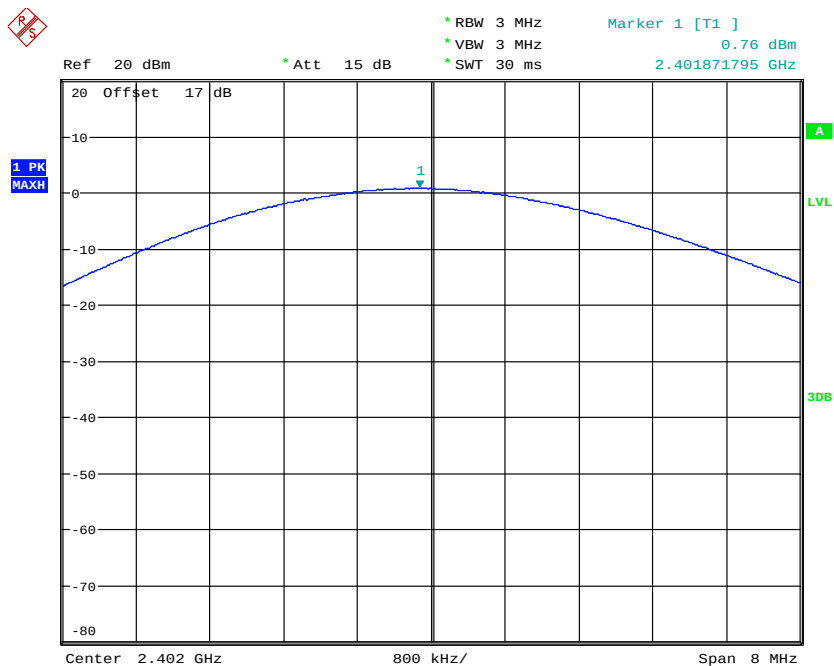
MAX OUTPUT POWER CH78  
Date: 16.MAR.2021 10:31:33



Registration number: W6M22102-20652-C-1

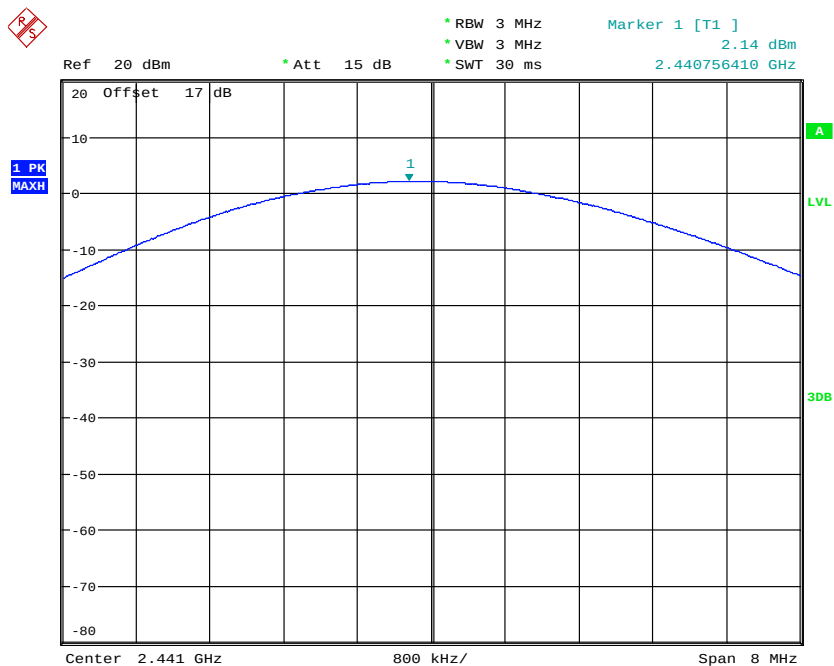
FCC ID: M5X-BTM10

EDR mode



MAX OUTPUT POWER CH0 EDR MODE

Date: 16.MAR.2021 10:36:53



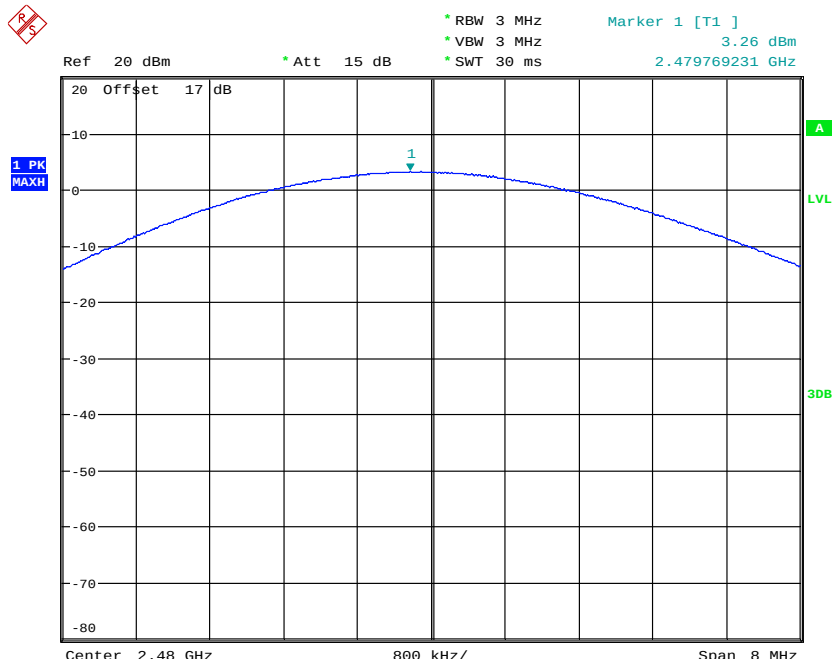
MAX OUTPUT POWER CH39 EDR MODE

Date: 16.MAR.2021 10:37:25





Registration number: W6M22102-20652-C-1  
FCC ID: M5X-BTM10



MAX OUTPUT POWER CH78 EDR MODE

Date: 16.MAR.2021 10:37:45

## Maximum Peak Output Power

Limits:

| Frequency<br>MHz | Number of hopping channels |           |              |              |
|------------------|----------------------------|-----------|--------------|--------------|
|                  | $\geq 75$                  | $\geq 50$ | $49 \geq 25$ | $74 \geq 15$ |
| 902-928          | --                         | 30 dBm    | 24 dBm       | --           |
| 2400-2483.5 MHz  | 30 dBm                     | --        | --           | 21 dBm       |
| 5725-5850 MHz    | 30 dBm                     | --        | --           | --           |

In case of employing transmitter antennas having antenna gain >dBi and using fixed point-to point operation consider §15.247 (b)(4).

Test equipment used: ETSTW-RE 055, ETSTW-RE 050, ETSTW-RE 064



Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

## **3.2 Equivalent Isotropic Radiated Power (EIRP)**

FCC Rule: 15.247(b)(3)

EIRP = max. conducted output power + antenna gain

EIRP = 4.82 dBm + (2 dBi [antenna gain claimed by manufacturer]) = 6.82 dBm = 4.81 mW

## **3.3 Exemption Limits for Routine Evaluation according to FCC KDB Publication**

### **RESULT:**

Test standard : FCC KDB Publication  
447498 D01 General RF Exposure Guidance v06

According to 447498 D01 General RF Exposure Guidance v06:

SAR evaluation, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

### **3.3.1 Exemption Limits for Routine Evaluation – SAR Evaluation**

SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table .

Table: SAR evaluation — Exemption limits for routine evaluation based on frequency and separation distance

| MHz  | 5    | 10    | 15    | 20    | 25    | mm                                      |
|------|------|-------|-------|-------|-------|-----------------------------------------|
| 2480 | 9.95 | 18.92 | 28.87 | 37.84 | 47.79 | SAR Test<br>Exclusion<br>Threshold (mW) |

| MHz  | 30    | 35    | 40    | 45    | 50    | mm                                      |
|------|-------|-------|-------|-------|-------|-----------------------------------------|
| 2480 | 56.74 | 66.69 | 76.63 | 85.61 | 95.56 | SAR Test<br>Exclusion<br>Threshold (mW) |

Output power level shall be the higher of the maximum conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, time-averaged output power.

Established separation distance is 5 mm.

Operating frequency band : 2402-2480 MHz

Max. output power level at 5 mm separation distance at 2480 MHz

according to table is: 9.95 mW

The product is exempt from SAR Evaluation/Testing because the output power of 4.81 mW is below the exemption limit of 9.95 mW.



Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

## **3.4 Transmitter Radiated Emissions in restricted Bands**

FCC Rules: 15.247 (d), 15.205, 15.209, 15.35

Radiated emission measurements were performed from 30 MHz to 26000 MHz.

For radiated emission tests, the analyzer setting was as followings:

RES BW VID BW

Frequency <1 GHz 100 kHz 100 kHz (Peak measurements)

Frequency >1 GHz 1 MHz 1 MHz (Peak measurements)

1 MHz 1 MHz (Average measurements)

Limits:

For frequencies below 1GHz :

| Frequency of Emission<br>(MHz) | Field strength<br>(microvolts/meter) | Field Strength<br>(dB microvolts/meter) |
|--------------------------------|--------------------------------------|-----------------------------------------|
| 30 – 88                        | 100                                  | 40.0                                    |
| 88 – 216                       | 150                                  | 43.5                                    |
| 216 – 960                      | 200                                  | 46.0                                    |
| Above 960                      | 500                                  | 54.0                                    |

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of FHSS Systems:

“If the emission is pulsed, modify the unit for continues operation , use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.” Here the correction was added to the limit instead subtracted from the reading.

Duty cycle correction =  $20 \log (\text{dwell time}/100\text{ms})$

For frequencies above 1GHz (Average measurements).

Limit – duty cycle correction

No duty cycle correction was added to the reading.

54.0dB $\mu$ V/m

For frequencies above 1GHz (Peak measurements).

Limit + 20dB

54.0dB $\mu$ V/m + 20 dB= 74 dB $\mu$ V/m

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 062, ETSTW-RE 142,  
ETSTW-RE 147, ETSTW-RE 064

Explanation: See attached diagrams in appendix.



Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

## 3.5 Spurious emissions (tx)

Spurious emission was measured with modulation (declared by manufacturer).

In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c))

SAMPLE CALCULATION OF LIMIT. All results will be updated by an automatic measuring system in accordance to point 2.3.

Calculation of test results:

Such factors like antenna correction, cable loss, external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

The peak and average spurious emission plots was measured with the average limits.

In the Table being listed the critical peak and average value an exhibit the compliance with the above calculated Limits.

If in the column's correction factor states a value then the max. Field strength in the same row is corrected by a value gained from the "Marker-Delta-Method" or the „Duty-Cycle Correction Factor“.

## Summary table with radiated data of the test plots

Model: BTM-10 Date: --  
 Mode: -- Temperature: -- °C Engineer: --  
 Polarization: Horizontal Humidity: -- %

| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|----------|-------------|-----------------|----------------|-------------|---------------------|----------------|
| --              | --             | --       | --          | --              | --             | --          | --                  | --             |
| --              | --             | --       | --          | --              | --             | --          | --                  | --             |

| Frequency (MHz) | Reading (dBuV) |      | Factor (dB) Corr. | Result (dBuV/m) |      | Limit (dBuV/m) |      | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|------|-------------------|-----------------|------|----------------|------|-------------|---------------------|----------------|
|                 | Peak           | Ave. |                   | Peak            | Ave. | Peak           | Ave. |             |                     |                |
| --              | --             | --   | --                | --              | --   | --             | --   | --          | --                  | --             |
| --              | --             | --   | --                | --              | --   | --             | --   | --          | --                  | --             |
| --              | --             | --   | --                | --              | --   | --             | --   | --          | --                  | --             |
| --              | --             | --   | --                | --              | --   | --             | --   | --          | --                  | --             |



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22102-20652-C-1  
FCC ID: M5X-BTM10

Polarization: Vertical

| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|----------|-------------|-----------------|----------------|-------------|---------------------|----------------|
| --              | --             | --       | --          | --              | --             | --          | --                  | --             |
| --              | --             | --       | --          | --              | --             | --          | --                  | --             |

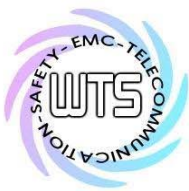
| Frequency (MHz) | Reading (dBuV) |      | Factor (dB) Corr. | Result (dBuV/m) |      | Limit (dBuV/m) |      | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|------|-------------------|-----------------|------|----------------|------|-------------|---------------------|----------------|
|                 | Peak           | Ave. |                   | Peak            | Ave. | Peak           | Ave. |             |                     |                |
| --              | --             | --   | --                | --              | --   | --             | --   | --          | --                  | --             |
| --              | --             | --   | --                | --              | --   | --             | --   | --          | --                  | --             |
| --              | --             | --   | --                | --              | --   | --             | --   | --          | --                  | --             |
| --              | --             | --   | --                | --              | --   | --             | --   | --          | --                  | --             |

- Note**
1. Correction Factor = Antenna factor + Cable loss - Preamplifier
  2. The formula of measured value as: Test Result = Reading + Correction Factor
  3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
  4. All not in the table noted test results are more than 20 dB below the relevant limits.
  5. After evaluated, the test result in this report adopt the worst case to measure, please see attached diagrams in appendix.

All other not noted test plots do not contain significant test results in relation to the limits.

**TEST RESULT (Transmitter):** The unit DOES meet the FCC requirements.

Test equipment used: ETSTW-RE 030, ETSTW-RE 111, ETSTW-RE 088, ETSTW-RE 018, ETSTW-RE 064



Registration number: W6M22102-20652-C-1  
FCC ID: M5X-BTM10

## 3.6 Carrier Frequency Separation

Carrier Frequency Separation was measured with modulation (declared by manufacturer).

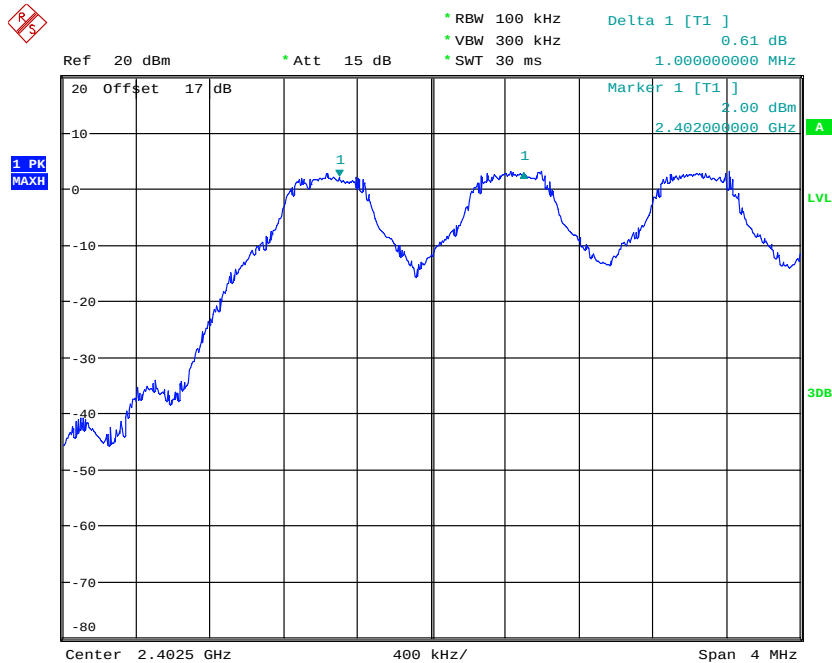
According to FCC rules part 15 subpart C §15.247 frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or 20 dB bandwidth of the hopping channel, whichever is greater.

Test date: March 16, 2021

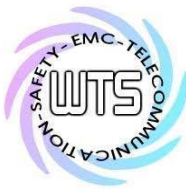
Temperature: 22.5°C

Humidity: 56.0 %

Tester: Spencer

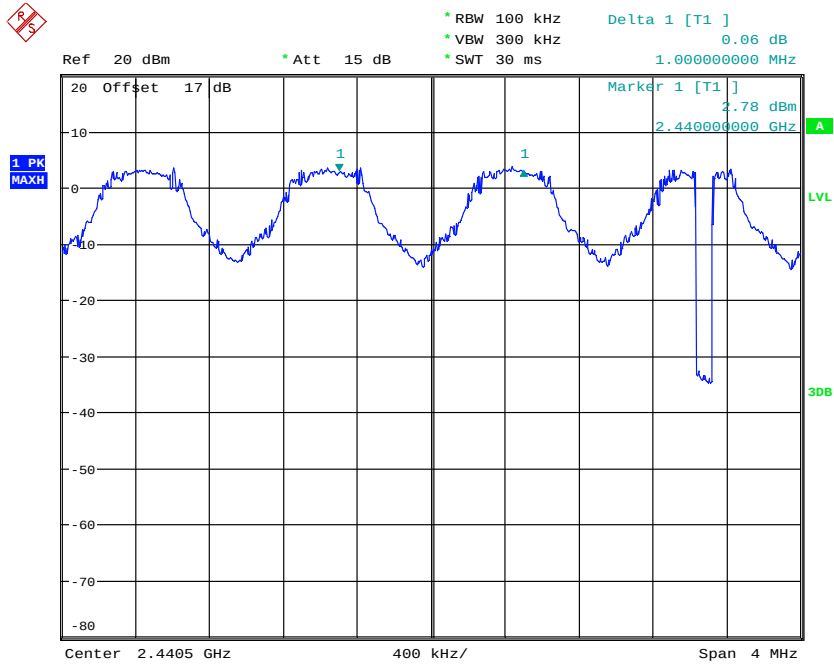


FREQUENCY SEPARATION CH0  
Date: 16.MAR.2021 10:35:09

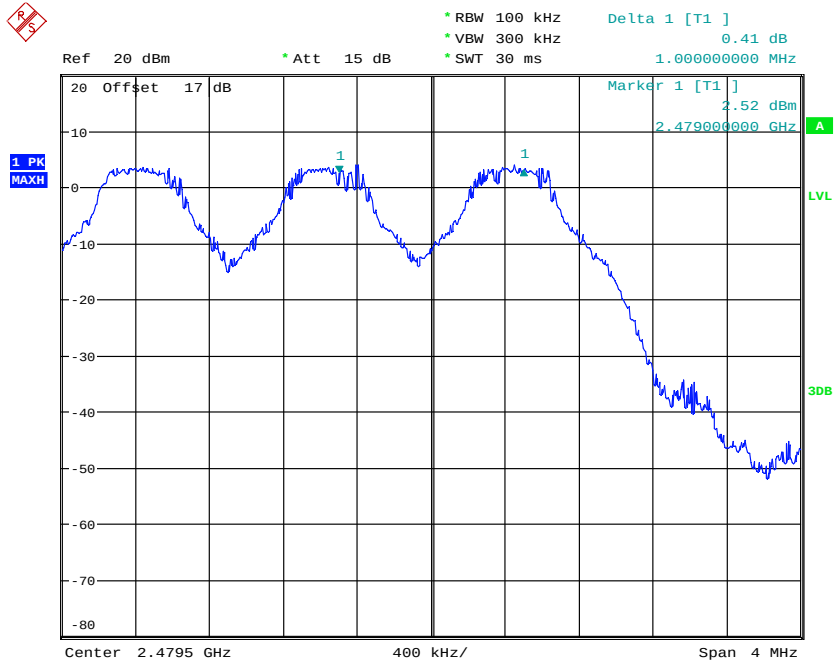


Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10



FREQUENCY SEPARATION CH39  
Date: 16.MAR.2021 10:35:53



FREQUENCY SEPARATION CH78  
Date: 16.MAR.2021 10:36:41



## **Worldwide Testing Services(Taiwan) Co., Ltd.**

Registration number: W6M22102-20652-C-1

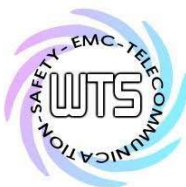
FCC ID: M5X-BTM10

### **Limits:**

| Frequency Range<br>MHz     | Limits                   |                          |
|----------------------------|--------------------------|--------------------------|
|                            | 20 dB bandwidth < 25 kHz | 20 dB bandwidth > 25 kHz |
| 902-928                    | 25 kHz                   | 20 dB bandwidth          |
| 2400-2483.5<br>5725-5850.0 | 25 kHz                   | 20 dB bandwidth          |

Test equipment used: ETSTW-RE 055, ETSTW-RE 064





Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

## 3.7 Number of Hopping Frequencies

According to FCC rules part 15 subpart C §15.247 frequency hopping systems operating in the 2400-2483.5 MHz band shall use at least 15 hopping frequencies. Frequency hopping systems in 5725-5850 MHz bands shall use least 75 hopping frequencies.

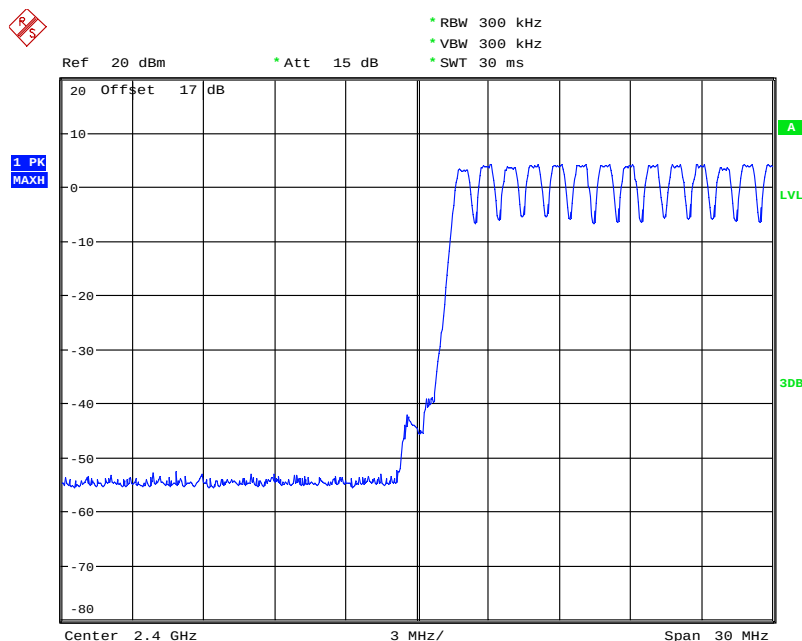
For frequency hopping systems operating in the 902-928 MHz band: if the 20dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies; if the 20dB bandwidth of the hopping channel 250 kHz or greater, the system shall use at least 25 hopping frequencies.

Test date: March 16, 2021

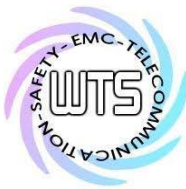
Temperature: 22.5°C

Humidity: 56.0 %

Tester: Spencer

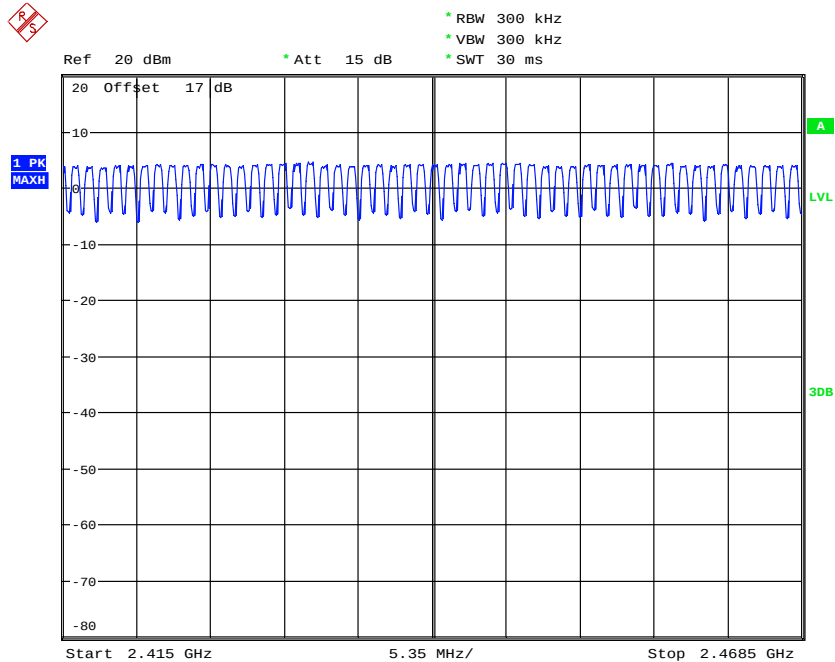


NUMBER OF HOPPING CH0-13  
Date: 16.MAR.2021 10:32:29



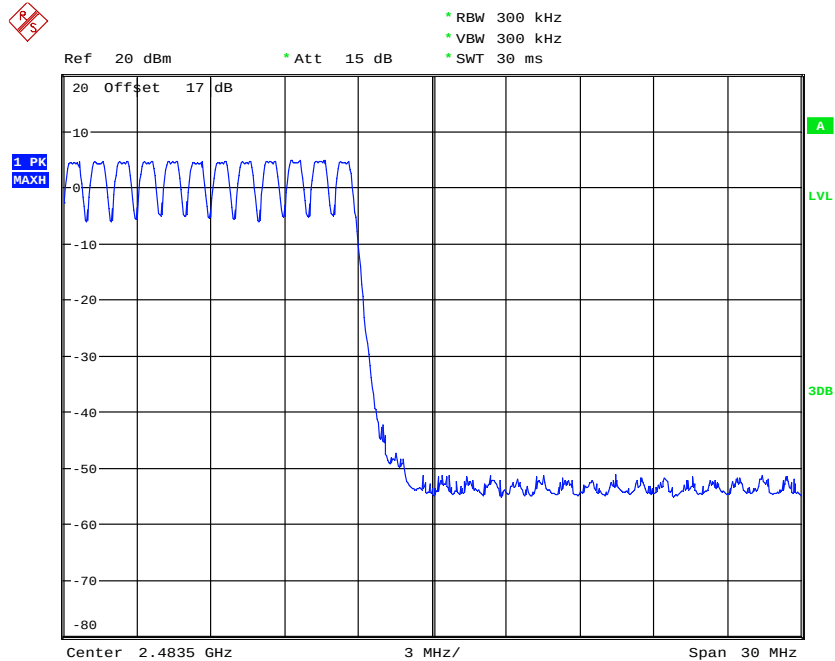
Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10



NUMBER OF HOPPING CH14-66

Date: 16.MAR.2021 10:34:17



NUMBER OF HOPPING CH67-78

Date: 16.MAR.2021 10:33:09



Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

## **Limits:**

| Frequency Range<br>MHz | Limit               |                    |
|------------------------|---------------------|--------------------|
|                        | 20dB Bandwidth      | Number of Channels |
| 902-928 MHz            | Bandwidth < 250 kHz | ≥ 50               |
|                        | Bandwidth ≥ 250 kHz | ≥ 25               |
| 2400-2483.5            | not defined         | 15                 |
| 5725-5850.0 MHz        | 1 MHz               | 75                 |

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

### **3.7.1 Pseudorandom Frequency Hopping Sequence**

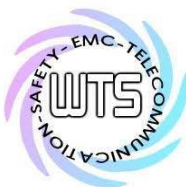
The generation of the hopping sequence is determined by the Bluetooth core specification and complies with the FCC requirements.

### **3.7.2 Coordination of hopping sequences to other transmitters**

According to the Bluetooth core specification such a coordination is not possible. During scatternet function only one of the two hopping sequences will be used at a definite moment.

### **3.7.3 System Receiver Hopping Capability**

According to the Bluetooth core specification. The system receivers shift frequencies in synchronization with the transmitted signals.



Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

## 3.8 Time of Occupancy (Dwell Time)

Frequency hopping systems operating in the 5725-5850 MHz band shall use an average time of occupancy on any frequency not greater than 0.4 seconds within a 30 second period.

In 2400-2483.5 MHz band the average time of occupancy on any channel shall not be greater than 0.4 seconds multiplied by the number of hopping channels employed.

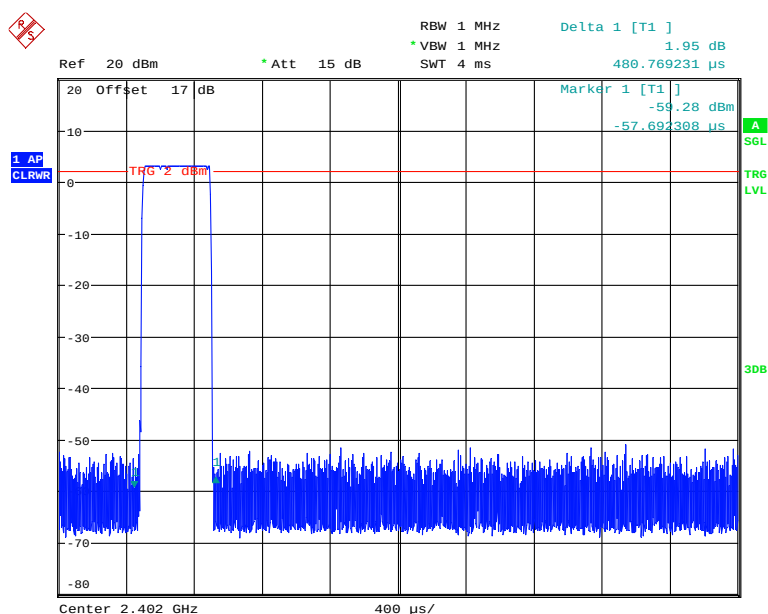
For frequency hopping systems operating in the 902-928 MHz band: if the 20dB bandwidth of the hopping channel is less than 250 kHz, the average time of occupancy on any frequency shall not greater than 0.4 seconds within a 20 second period; if the 20dB bandwidth of the hopping channel is 250 kHz or greater, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

Test date: March 16, 2021

Temperature: 22.5°C

Humidity: 56.0 %

Tester: Spencer



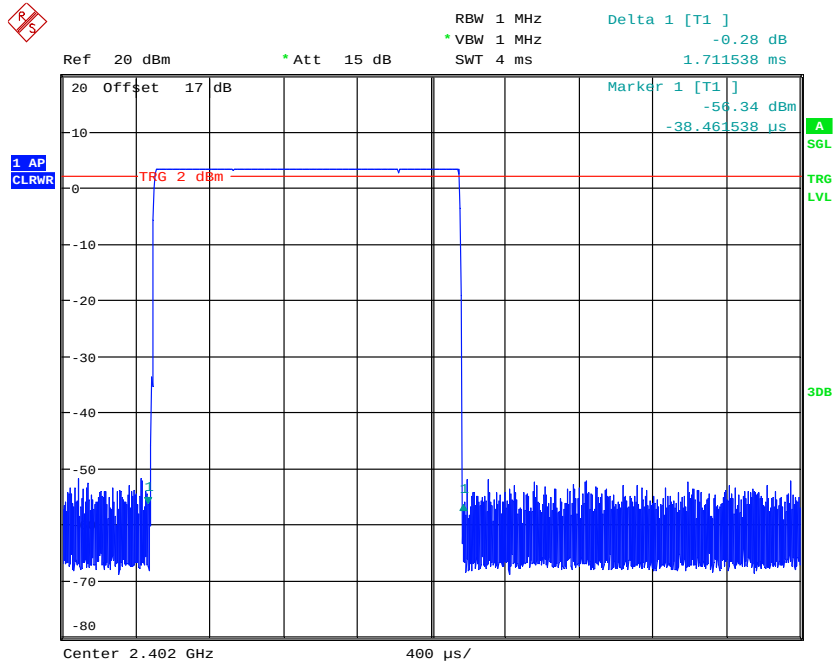
DWELL TIME CH0 DH1 ( 0.48ms \* 320events = 153.6ms )

Date: 16.MAR.2021 10:47:22



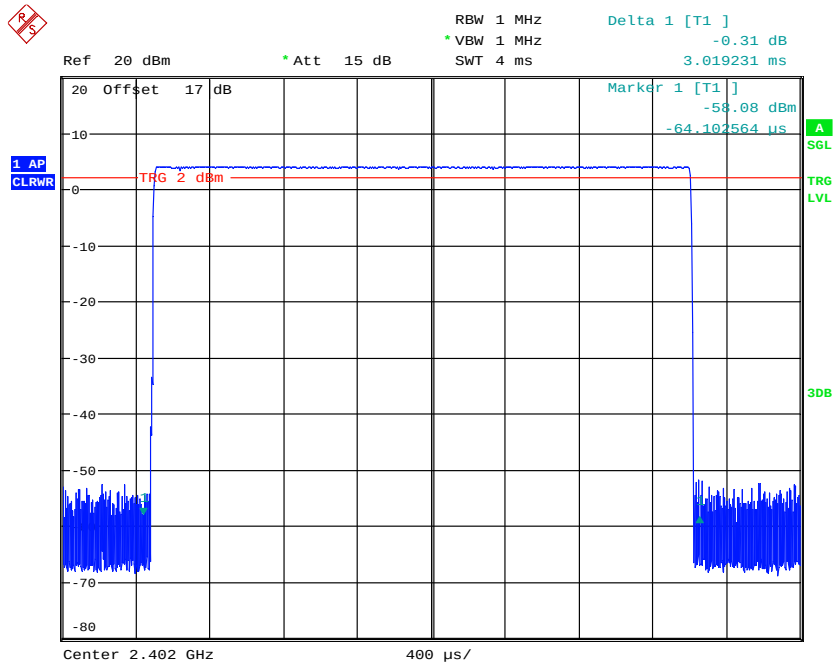
Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10



DWELL TIME CH0 DH3 ( 1.711ms \* 160events = 273.76ms )

Date: 16.MAR.2021 11:08:04



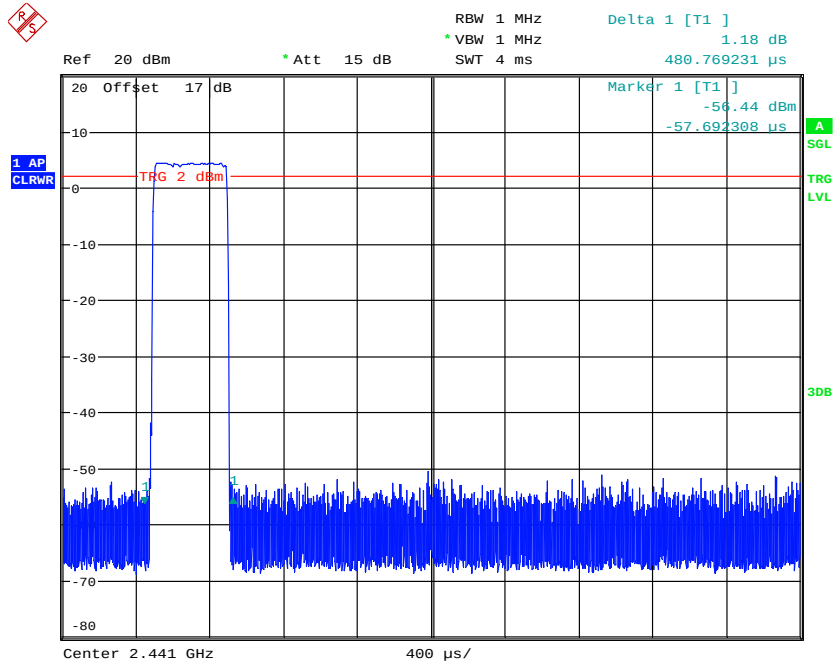
DWELL TIME CH0 DH5 ( 3.019ms \* 106events = 320.014ms )

Date: 16.MAR.2021 11:23:05



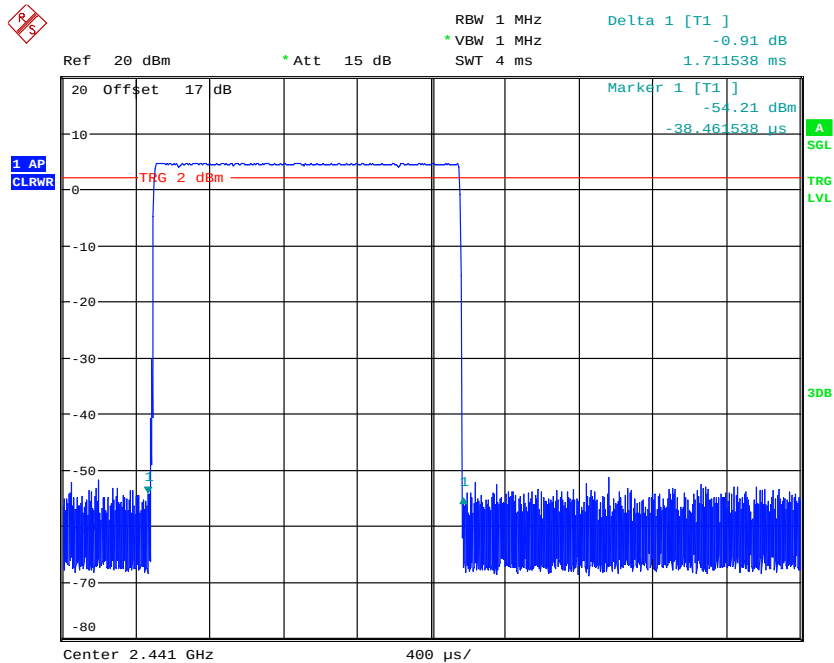
Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10



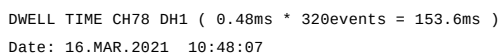
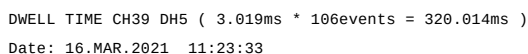
DWELL TIME CH39 DH1 ( 0.48ms \* 320events = 153.6ms )

Date: 16.MAR.2021 10:47:46



DWELL TIME CH39 DH3 ( 1.711ms \* 160events = 273.76ms )

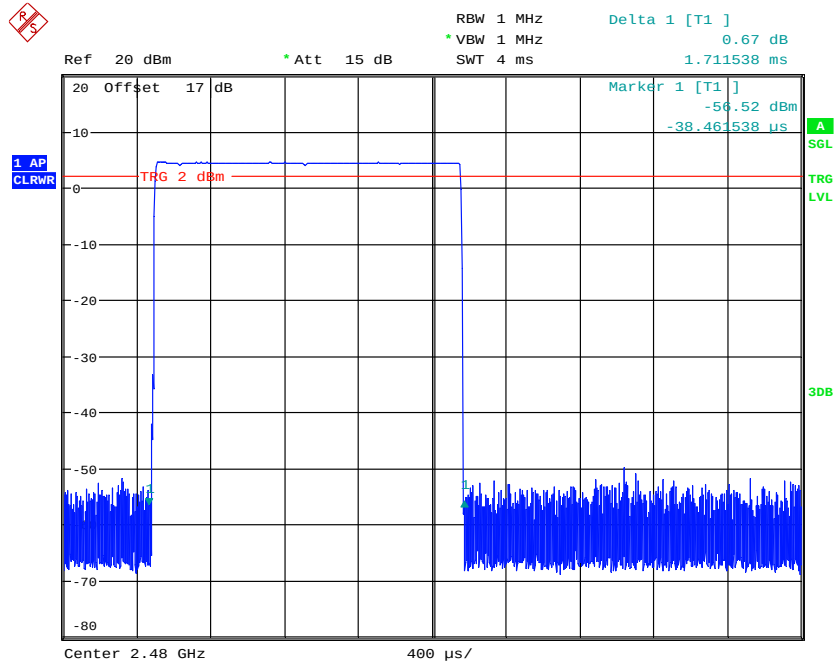
Date: 16.MAR.2021 11:07:39





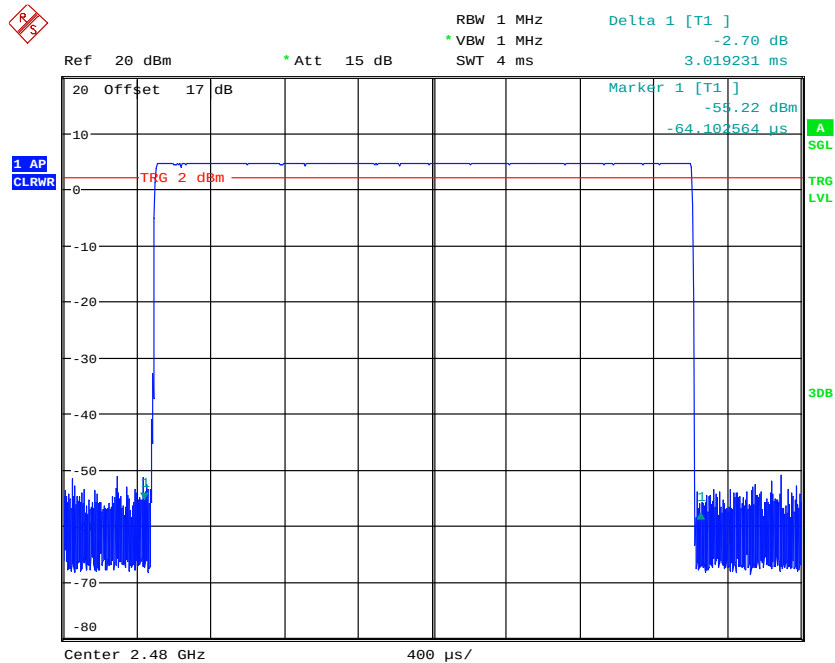
Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10



DWELL TIME CH78 DH3 ( 1.711ms \* 160events = 273.76ms )

Date: 16.MAR.2021 10:55:07



DWELL TIME CH78 DH5 ( 3.019ms \* 106events = 320.014ms )

Date: 16.MAR.2021 11:24:02





Registration number: W6M22102-20652-C-1  
FCC ID: M5X-BTM10

**Limits and measurement periods:**

| Frequency MHz | Number of channels | Measurement Period              | Limit |
|---------------|--------------------|---------------------------------|-------|
| 902 – 928     | $\geq 50$          | 20 s                            | 0.4 s |
|               | $49 \geq 25$       | 10 s                            | 0.4 s |
| 2400 – 2483.5 | $\geq 15$          | 0.4 s * number of used channels | 0.4 s |
| 5725- 5850    | $\geq 75$          | 30 s                            | 0.4s  |

Test equipment used: ETSTW-RE 055, ETSTW-RE 064



Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

## 3.9 20dB Bandwidth

Frequency hopping systems operating in the 5725-5850 MHz bands shall use a maximum 20dB bandwidth of 1 MHz.

The 20dB bandwidth is measured on the lowest, middle and highest hopping channel.

For frequency hopping systems operating in the 902-928 MHz band the maximum 20dB bandwidth of the hopping channel is 500 kHz.

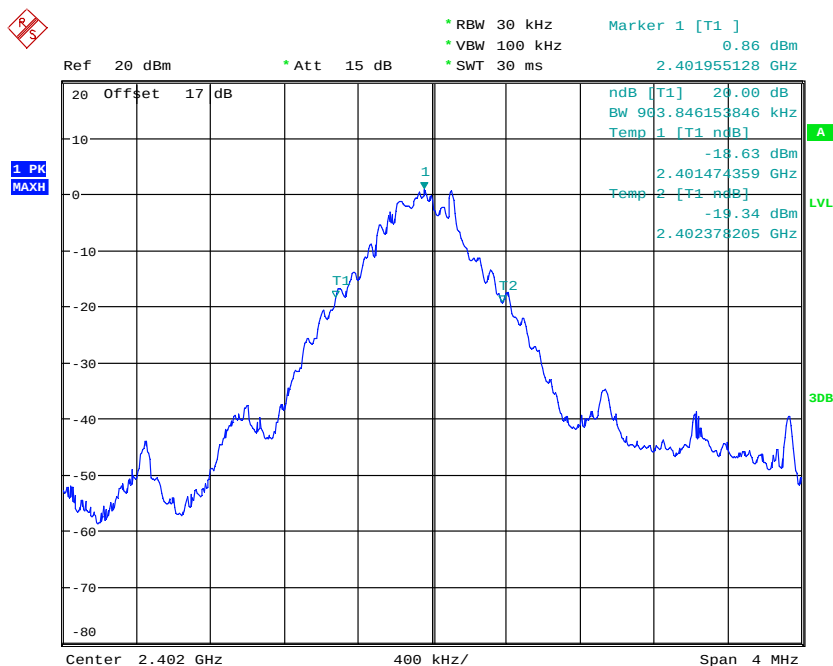
Test date: March 16, 2021

Temperature: 22.5°C

Humidity: 56.0 %

Tester: Spencer

Normal mode



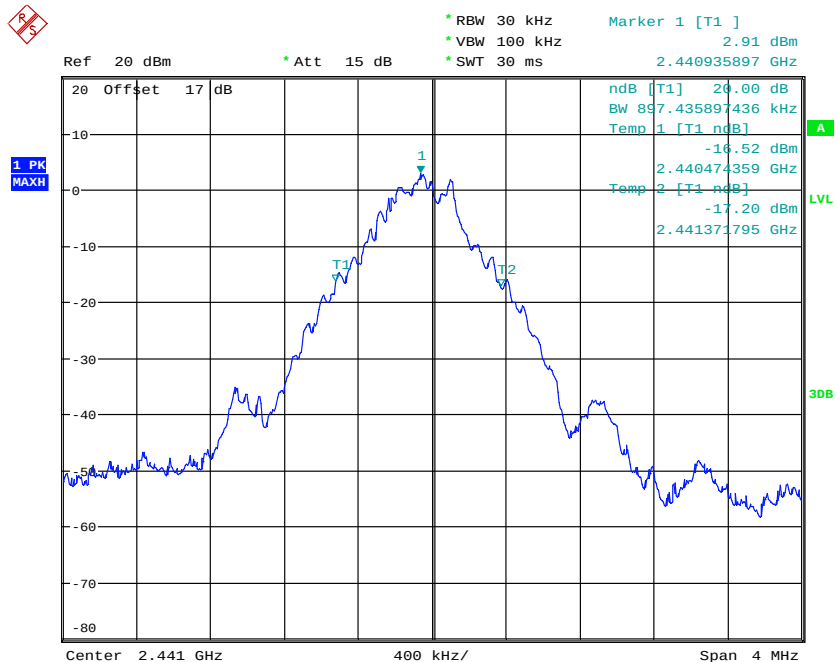
20DB BANDWIDTH CH0

Date: 16.MAR.2021 10:30:49



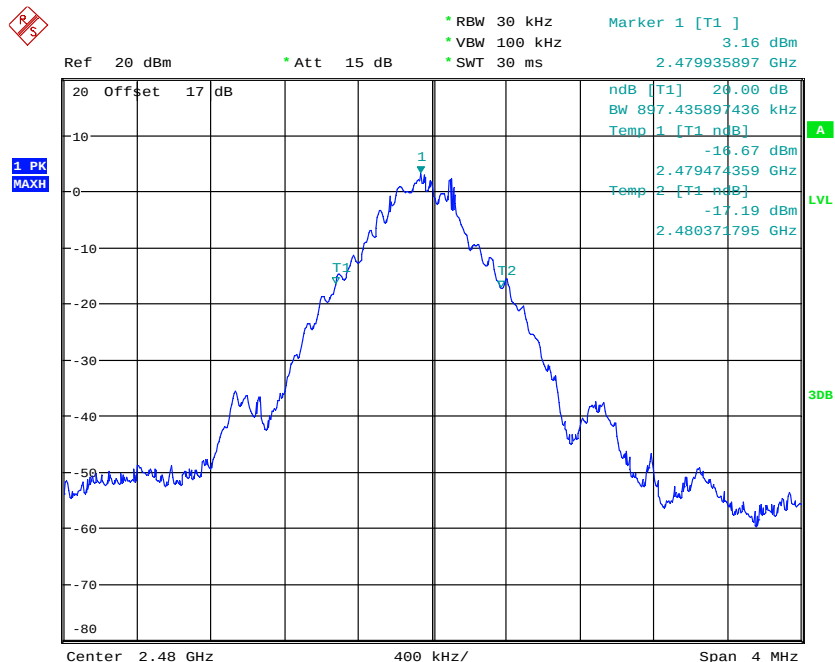
Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10



20DB BANDWIDTH CH39

Date: 16.MAR.2021 10:31:21



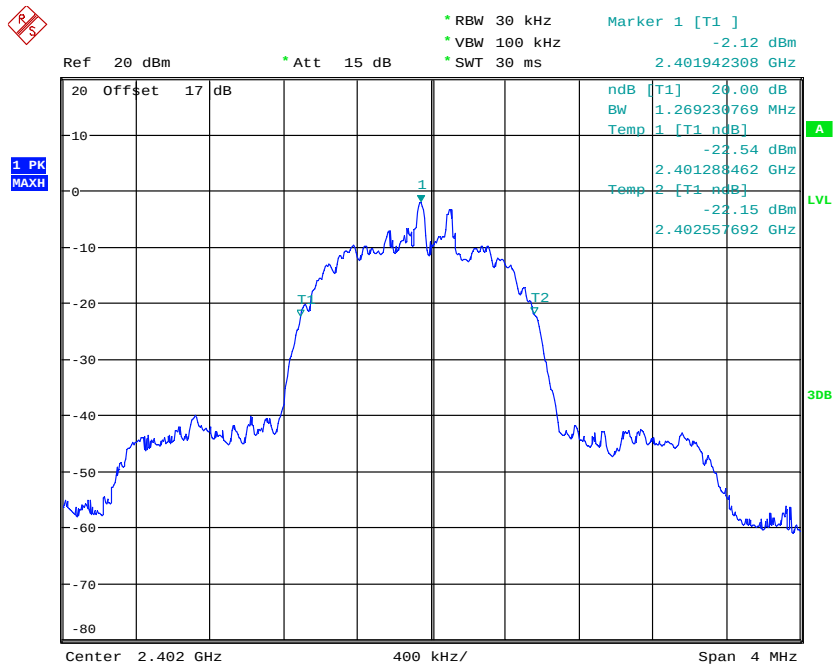
20DB BANDWIDTH CH78

Date: 16.MAR.2021 10:31:41

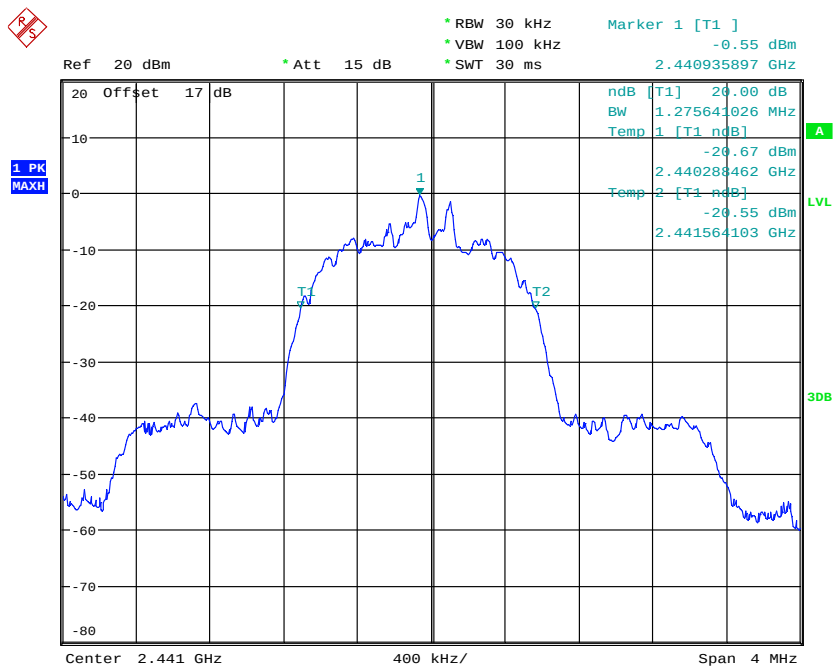


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22102-20652-C-1  
FCC ID: M5X-BTM10  
EDR mode

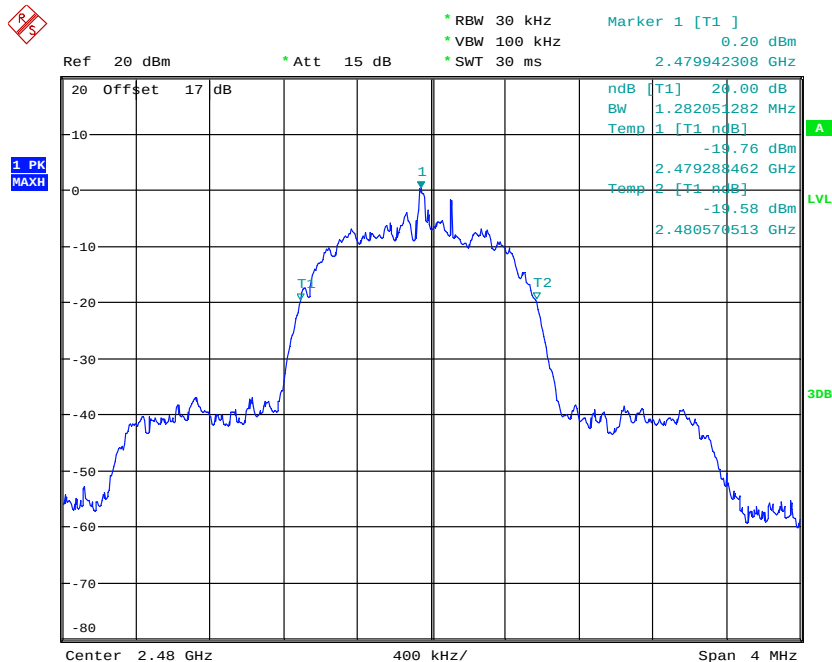


20DB BANDWIDTH CH0 EDR MODE  
Date: 16.MAR.2021 10:37:01



20DB BANDWIDTH CH39 EDR MODE  
Date: 16.MAR.2021 10:37:33

Registration number: W6M22102-20652-C-1  
FCC ID: M5X-BTM10



20DB BANDWIDTH CH78 EDR MODE  
Date: 16.MAR.2021 10:37:53

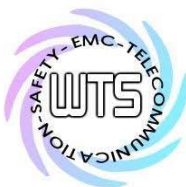
## Limits:

| Frequency Range / MHz | Limit          |
|-----------------------|----------------|
| 902-928               | $\leq 500$ kHz |
| 2400-2483.5           | not defined    |
| 5725-5850             | $\leq 1$ MHz   |

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

### 3.9.1 System Receiver Input Bandwidth

It is determined in the Bluetooth core specification. The value matches to the bandwidth of transmitter signal.



Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

## 3.10 Band-edge Compliance of RF Emissions

According to FCC rules part 15 subpart C §15.247(c) in any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required.

In addition radiated emission which fall in the restricted bands, as defined in section 15.205(a), must also with the radiated emission limits.

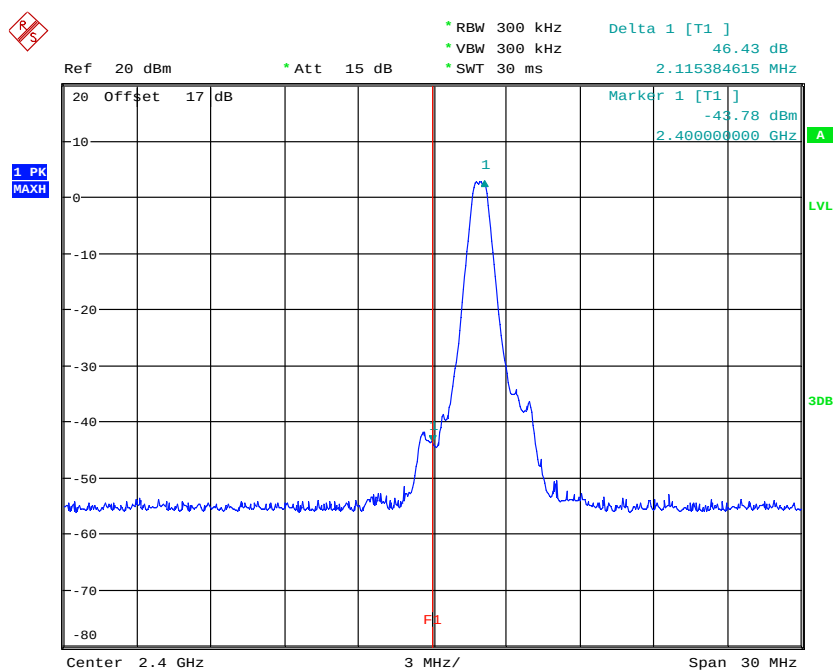
Test date: March 16, 2021

Temperature: 22.5°C

Humidity: 56.0 %

Tester: Spencer

Normal mode



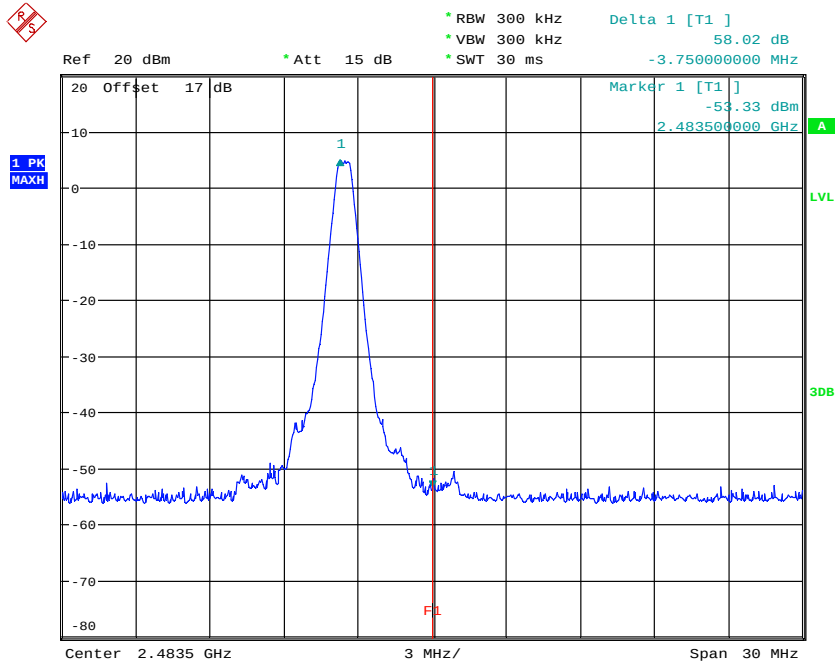
BANDEDGE CH0

Date: 16.MAR.2021 10:31:01



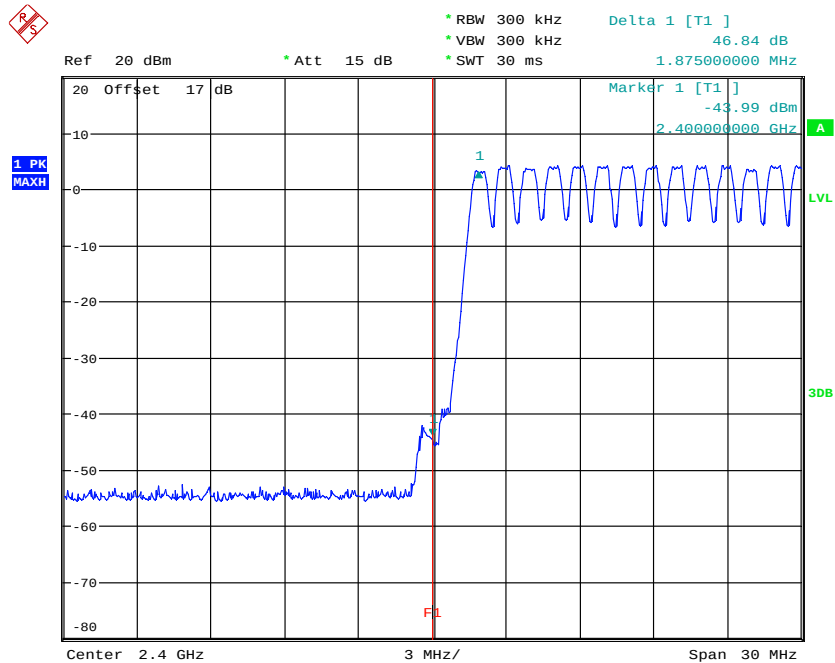
Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10



BANDEDGE CH78

Date: 16.MAR.2021 10:31:49



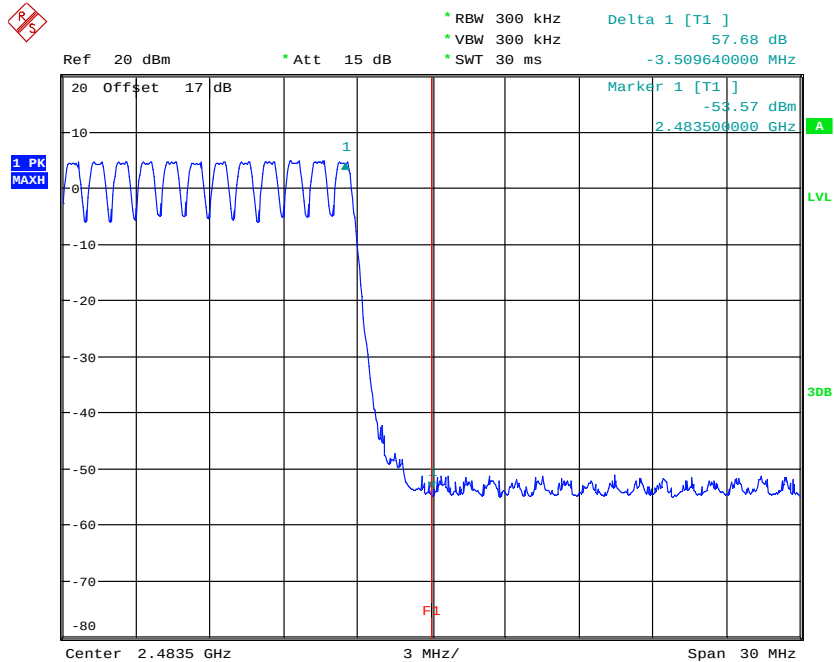
BANDEDGE CH0 HOPPING MODE

Date: 16.MAR.2021 10:32:30



Registration number: W6M22102-20652-C-1

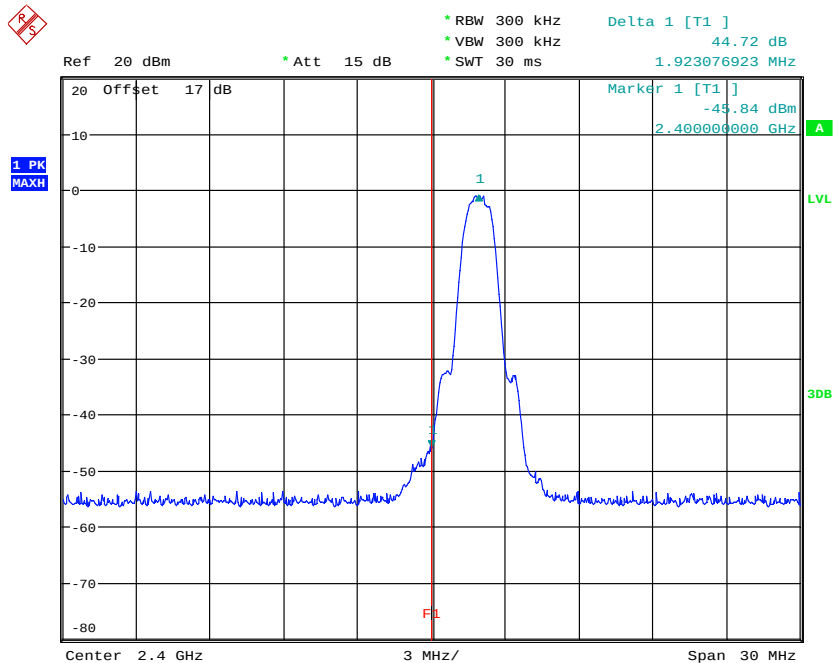
FCC ID: M5X-BTM10



BANDEDGE CH78 HOPPING MODE

Date: 16.MAR.2021 10:33:10

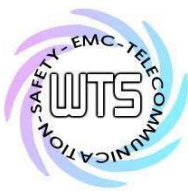
EDR mode



BANDEDGE CH0 EDR MODE

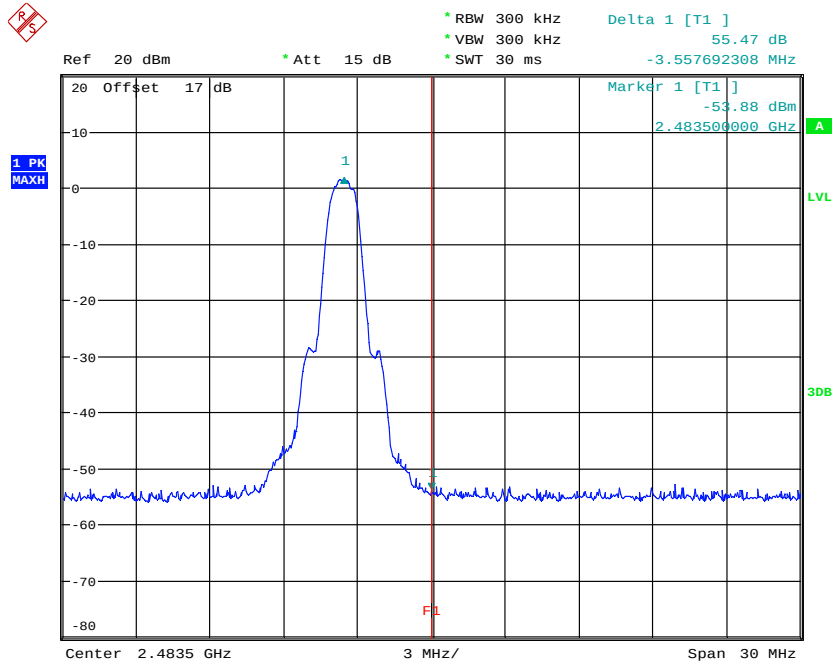
Date: 16.MAR.2021 10:37:09



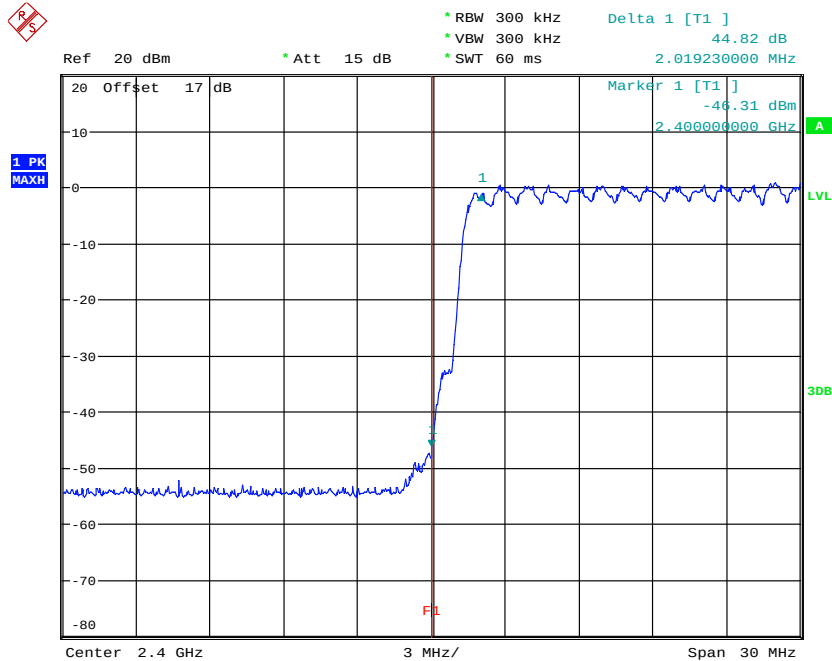


Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10



BANDEDGE CH78 EDR MODE  
Date: 16.MAR.2021 10:38:05

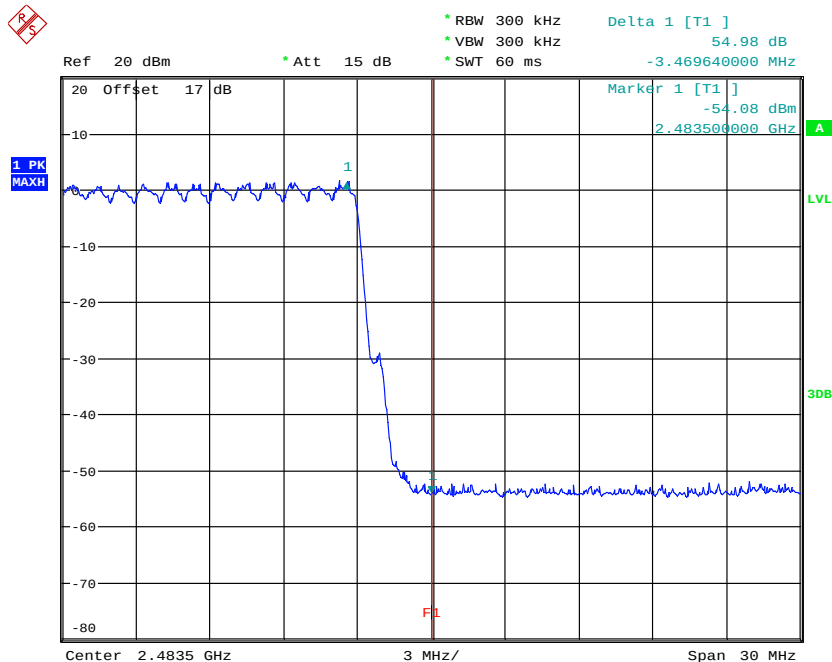


BANDEDGE CH0 EDR HOPPING MODE  
Date: 16.MAR.2021 10:39:53



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22102-20652-C-1  
FCC ID: M5X-BTM10



BANDEDGE CH78 EDR HOPPING MODE  
Date: 16.MAR.2021 10:41:37

## Limits:

| Frequency Range / MHz | Limit   |
|-----------------------|---------|
| 902 – 928             | - 20 dB |
| 2400 – 2483.5         |         |
| 5725 - 5850           |         |

Test equipment used: ETSTW-RE 055, ETSTW-RE 050, ETSTW-RE 064



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

## 3.11 Radiated Emissions from Receiver Part

### Summary table with radiated data of the test plots

Model: BTM-10 Date: --  
 Mode: -- Temperature: -- °C Engineer: --  
 Polarization: Horizontal Humidity: -- %

| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|----------|-------------|-----------------|----------------|-------------|---------------------|----------------|
| --              | --             | --       | --          | --              | --             | --          | --                  | --             |
| --              | --             | --       | --          | --              | --             | --          | --                  | --             |

| Frequency (MHz) | Reading (dBuV) |      | Factor (dB) | Result (dBuV/m) |      | Limit (dBuV/m) |      | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|------|-------------|-----------------|------|----------------|------|-------------|---------------------|----------------|
|                 | Peak           | Ave. | Corr.       | Peak            | Ave. | Peak           | Ave. |             |                     |                |
| --              | --             | --   | --          | --              | --   | --             | --   | --          | --                  | --             |
| --              | --             | --   | --          | --              | --   | --             | --   | --          | --                  | --             |
| --              | --             | --   | --          | --              | --   | --             | --   | --          | --                  | --             |
| --              | --             | --   | --          | --              | --   | --             | --   | --          | --                  | --             |

Polarization: Vertical

| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|----------|-------------|-----------------|----------------|-------------|---------------------|----------------|
| --              | --             | --       | --          | --              | --             | --          | --                  | --             |
| --              | --             | --       | --          | --              | --             | --          | --                  | --             |

| Frequency (MHz) | Reading (dBuV) |      | Factor (dB) | Result (dBuV/m) |      | Limit (dBuV/m) |      | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|------|-------------|-----------------|------|----------------|------|-------------|---------------------|----------------|
|                 | Peak           | Ave. | Corr.       | Peak            | Ave. | Peak           | Ave. |             |                     |                |
| --              | --             | --   | --          | --              | --   | --             | --   | --          | --                  | --             |
| --              | --             | --   | --          | --              | --   | --             | --   | --          | --                  | --             |
| --              | --             | --   | --          | --              | --   | --             | --   | --          | --                  | --             |
| --              | --             | --   | --          | --              | --   | --             | --   | --          | --                  | --             |

- Note**
1. Correction Factor = Antenna factor + Cable loss - Preamplifier
  2. The formula of measured value as: Test Result = Reading + Correction Factor
  3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
  4. All not in the table noted test results are more than 20 dB below the relevant limits.
  5. Please see attached diagrams in appendix.

Test equipment used: ETSTW-RE 030, ETSTW-RE 055, ETSTW-RE 064, ETSTW-RE 111



Registration number: W6M22102-20652-C-1

FCC ID: M5X-BTM10

## 3.12 Power Line Conducted Emission

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.

Model: BTM-10 Date: --  
 Mode: -- Temperature: -- °C Engineer: --  
 Polarization: N Humidity: -- %

| Frequency<br>(MHz) | Reading<br>(dBuV) |      | Factor<br>(dB)<br>Corr. | Result<br>(dBuV) |      | Limit<br>(dBuV) |      | Margin<br>(dB) |
|--------------------|-------------------|------|-------------------------|------------------|------|-----------------|------|----------------|
|                    | QP                | Ave. |                         | QP               | Ave. | QP              | Ave. |                |
| --                 | --                | --   | --                      | --               | --   | --              | --   | --             |
| --                 | --                | --   | --                      | --               | --   | --              | --   | --             |
| --                 | --                | --   | --                      | --               | --   | --              | --   | --             |
| --                 | --                | --   | --                      | --               | --   | --              | --   | --             |

Polarization: L1

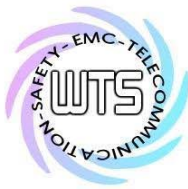
| Frequency<br>(MHz) | Reading<br>(dBuV) |      | Factor<br>(dB)<br>Corr. | Result<br>(dBuV) |      | Limit<br>(dBuV) |      | Margin<br>(dB) |
|--------------------|-------------------|------|-------------------------|------------------|------|-----------------|------|----------------|
|                    | QP                | Ave. |                         | QP               | Ave. | QP              | Ave. |                |
| --                 | --                | --   | --                      | --               | --   | --              | --   | --             |
| --                 | --                | --   | --                      | --               | --   | --              | --   | --             |
| --                 | --                | --   | --                      | --               | --   | --              | --   | --             |
| --                 | --                | --   | --                      | --               | --   | --              | --   | --             |

### Limits:

| Frequency of Emission (MHz) | Conducted Limit (dBuV) |          |
|-----------------------------|------------------------|----------|
|                             | Quasi Peak             | Average  |
| 0.15-0.5                    | 66 to 56               | 56 to 46 |
| 0.5-5                       | 56                     | 46       |
| 5-30                        | 60                     | 50       |

- Note:**
1. The formula of measured value as:  $\text{Test Result} = \text{Reading} + \text{Correction Factor}$
  2. The Correction Factor = Cable Loss + LISN Insertion Loss + Pulse Limit Loss
  3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
  4. All not in the table noted test results are more than 20 dB below the relevant limits.
  5. Up Line: QP Limit Line, Down Line: Ave Limit Line.
  6. This test is not required.

Test equipment used: ETSTW-CE 001, ETSTW-CE 016, ETSTW-RE 045.



## **Appendix**

### **A. Photos**

1. External Photos
2. Internal Photos
3. Set Up Photo of Radiated Emission

### **B. Measurement diagrams**

Spurious Emissions radiated



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Neihu, Taipei  
 Tel: +886-2-6606-8877  
 Fax: +886-2-6606-8879

## Radiated Emission Measurement

Operator: Allen

File : 1\_BT\_TX

Data : #1

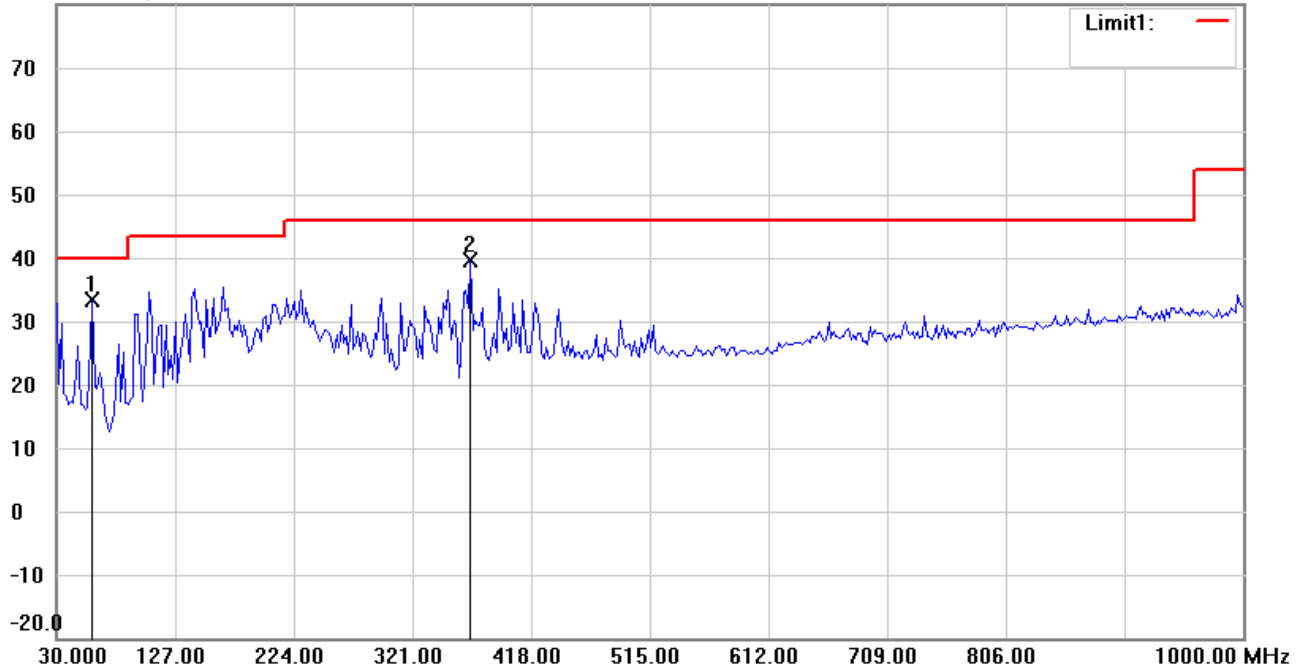
Date: 3/19/2021

Temperature: 24.9 °C

80.0 dBuV/m

Time: 1:01:51 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_30-1000MHz

Polarization: *Horizontal*

EUT : W6M22102-20652

Power : 8 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 59.1583         | 44.89          | peak     | -11.48              | 33.41           | 40.00          | 150          | 135            | -6.59       |         |
| *   | 368.2364        | 44.10          | peak     | -4.53               | 39.57           | 46.00          | 110          | 210            | -6.43       |         |



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Tel: +886-2-6606-8877  
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Allen

File : 1\_BT\_TX

Data : #2

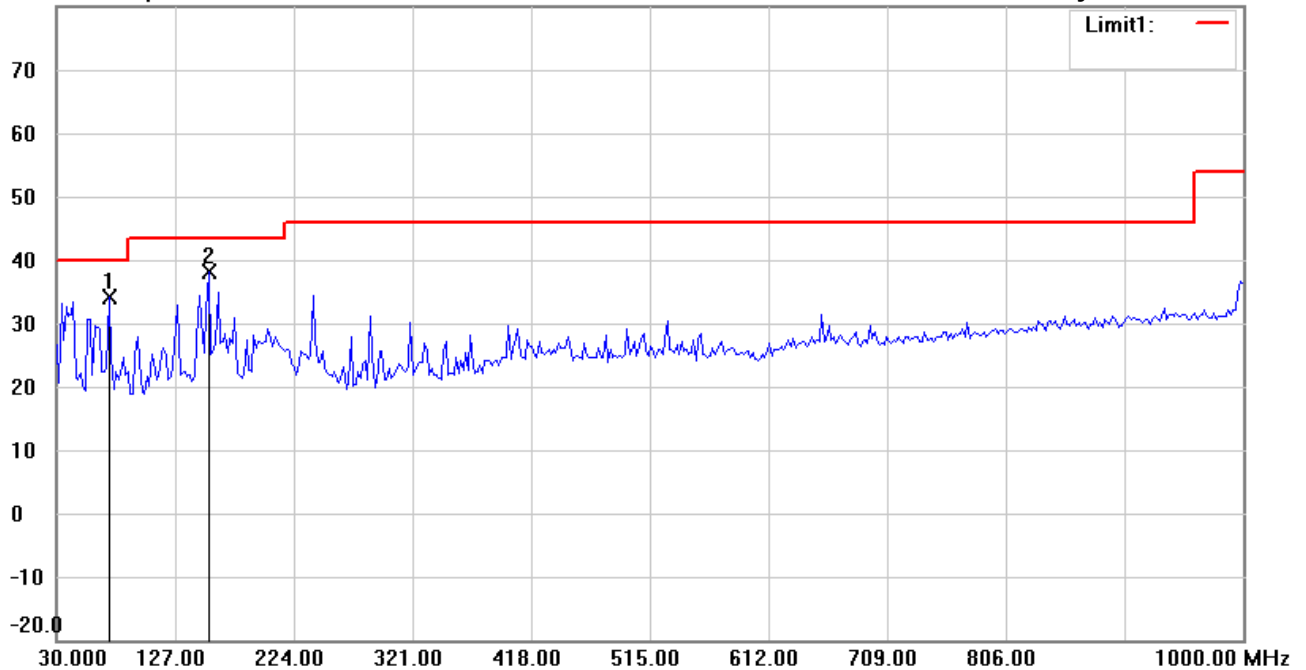
Date: 3/19/2021

Temperature: 24.9 °C

80.0 dBuV/m

Time: 1:02:51 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_30-1000MHz

EUT : W6M22102-20652

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Vertical*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 72.7655         | 48.47          | peak     | -14.34              | 34.13           | 40.00          | 110          | 240            | -5.87       |         |
| *   | 154.4088        | 46.04          | peak     | -7.89               | 38.15           | 43.50          | 125          | 75             | -5.35       |         |

\*:Maximum data    x:Over limit    !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Neihsu, Taipei  
Tel: +886-2-6606-8877  
Fax: +886-2-6606-8879

# Radiated Emission Measurement

Operator: Allen

File : 3

Data : #1

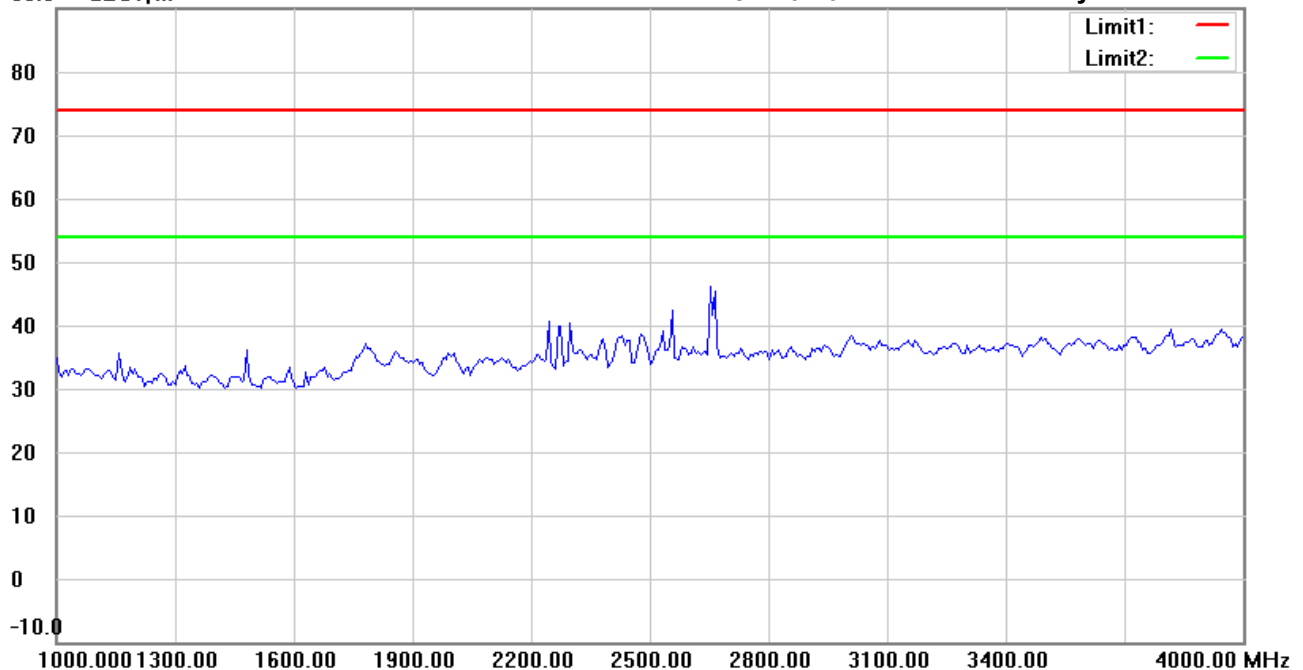
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 2:07:02 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Horizontal*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin





Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Neihsu, Taipei  
Tel: +886-2-6606-8877  
Fax: +886-2-6606-8879

# Radiated Emission Measurement

Operator: Allen

File : 3

Data : #6

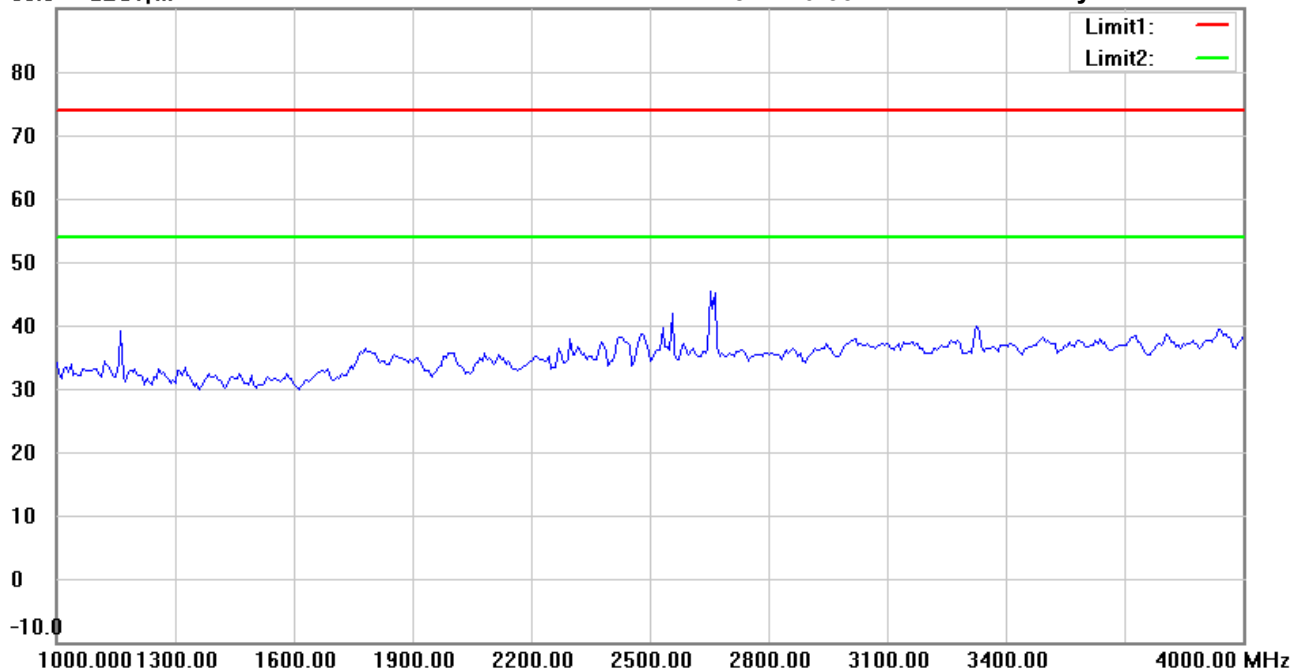
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 2:10:33 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Vertical*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Neihu, Taipei  
Tel: +886-2-6606-8877  
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Allen

File : 3

Data : #2

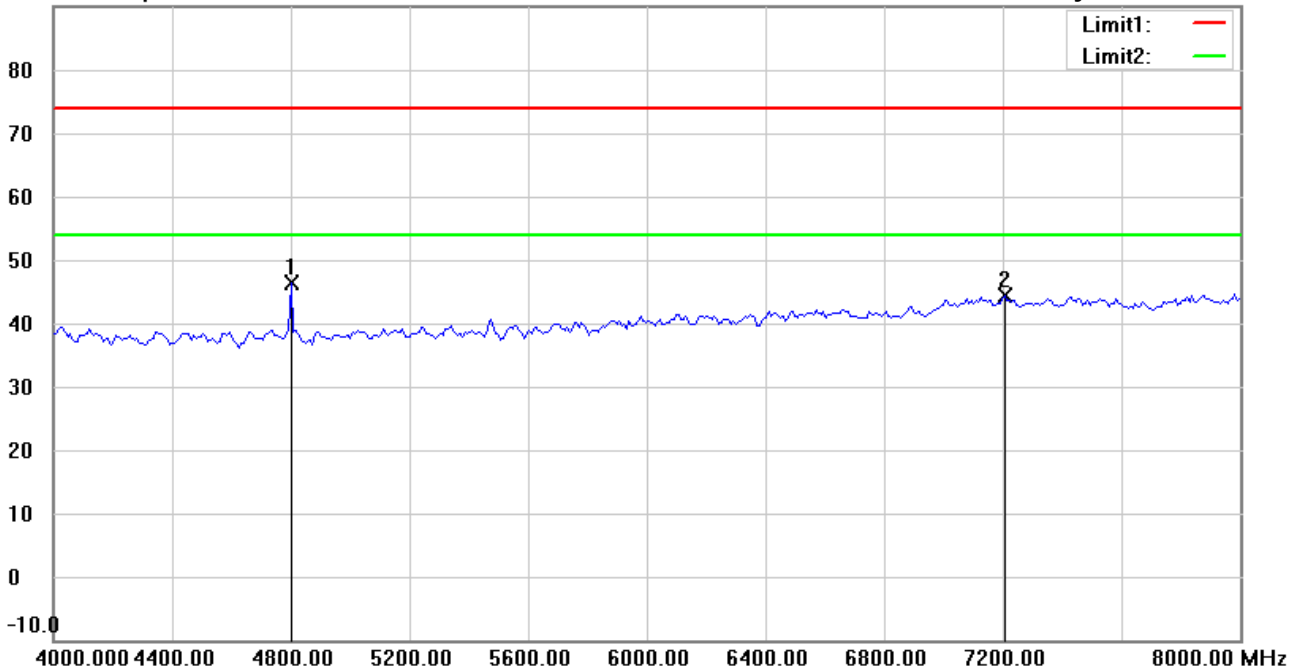
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 2:08:03 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Horizontal*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 4801.603        | 48.11          | peak     | -1.76               | 46.35           | 74.00          | 150          | 182            | -27.65      |         |
|     | 7206.000        | 40.97          | peak     | 3.32                | 44.29           | 74.00          | 150          | 290            | -29.71      |         |

\*:Maximum data    x:Over limit    !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Neihu, Taipei  
Tel: +886-2-6606-8877  
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Allen

File : 3

Data : #7

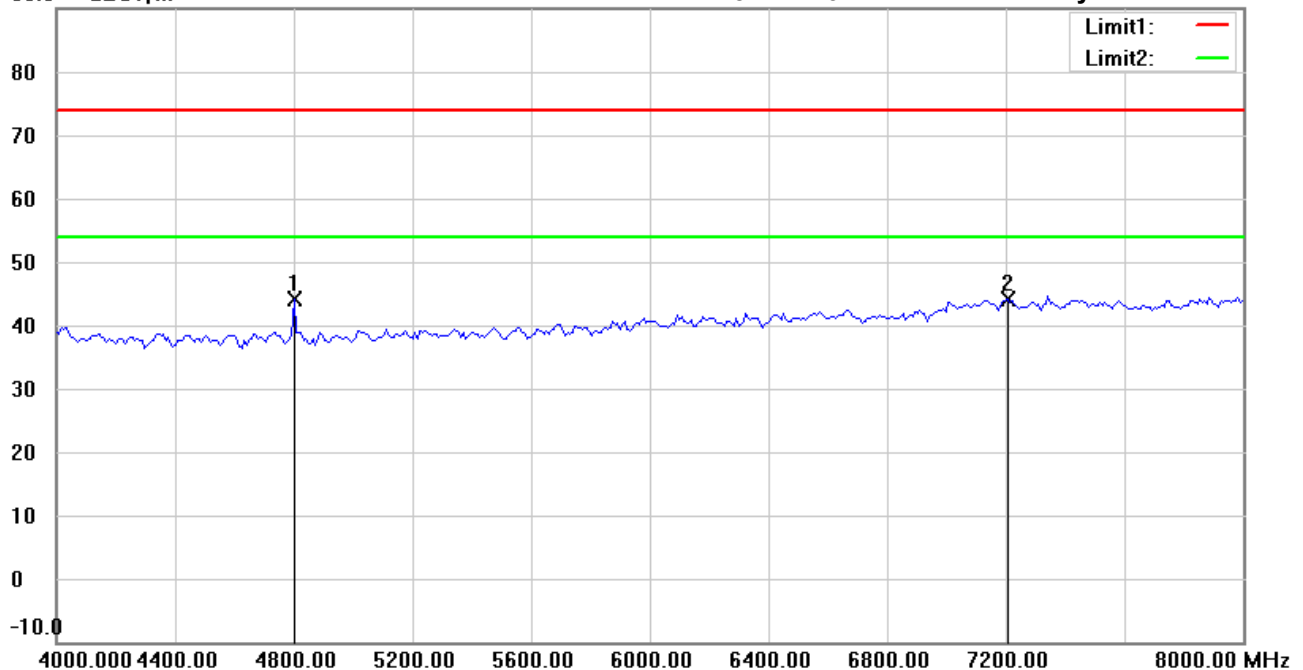
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 2:11:34 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Vertical*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 4801.603        | 45.81          | peak     | -1.76               | 44.05           | 74.00          | 150          | 185            | -29.95      |         |
| *   | 7206.000        | 40.78          | peak     | 3.32                | 44.10           | 74.00          | 150          | 330            | -29.90      |         |

\*:Maximum data    x:Over limit    !:over margin



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Tel: +886-2-6606-8877  
Fax: +886-2-6606-8879

# Radiated Emission Measurement

Operator: Allen

File : 3

Data : #3

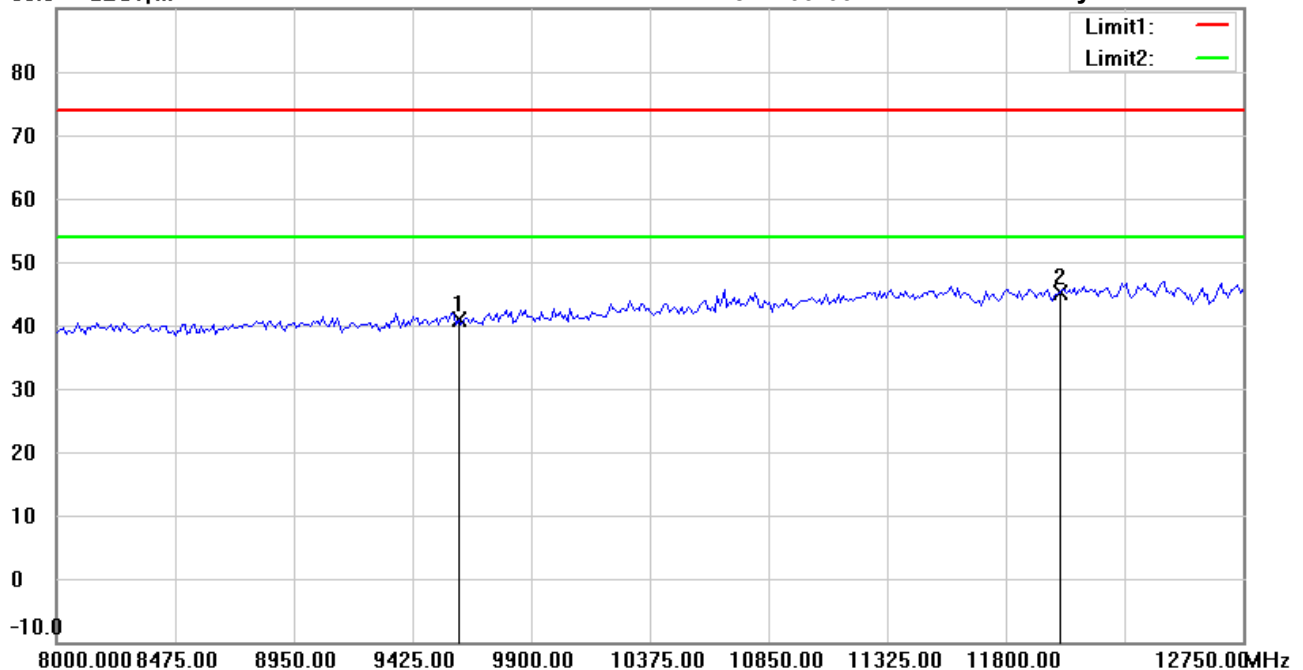
Date: 3/19/2021

Temperature: 24.9 °C

Time: 2:09:09 AM

Humidity: 69.5 %

90.0 dBuV/m



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: **Horizontal**

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 9608.000        | 34.11          | peak     | 6.70                | 40.81           | 74.00          | 150          | 105            | -33.19      |         |
| *   | 12010.000       | 33.34          | peak     | 11.68               | 45.02           | 74.00          | 150          | 40             | -28.98      |         |

\*:Maximum data    x:Over limit    !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Neihsu, Taipei  
Tel: +886-2-6606-8877  
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# Radiated Emission Measurement

Operator: Allen

File :3

Data :#8

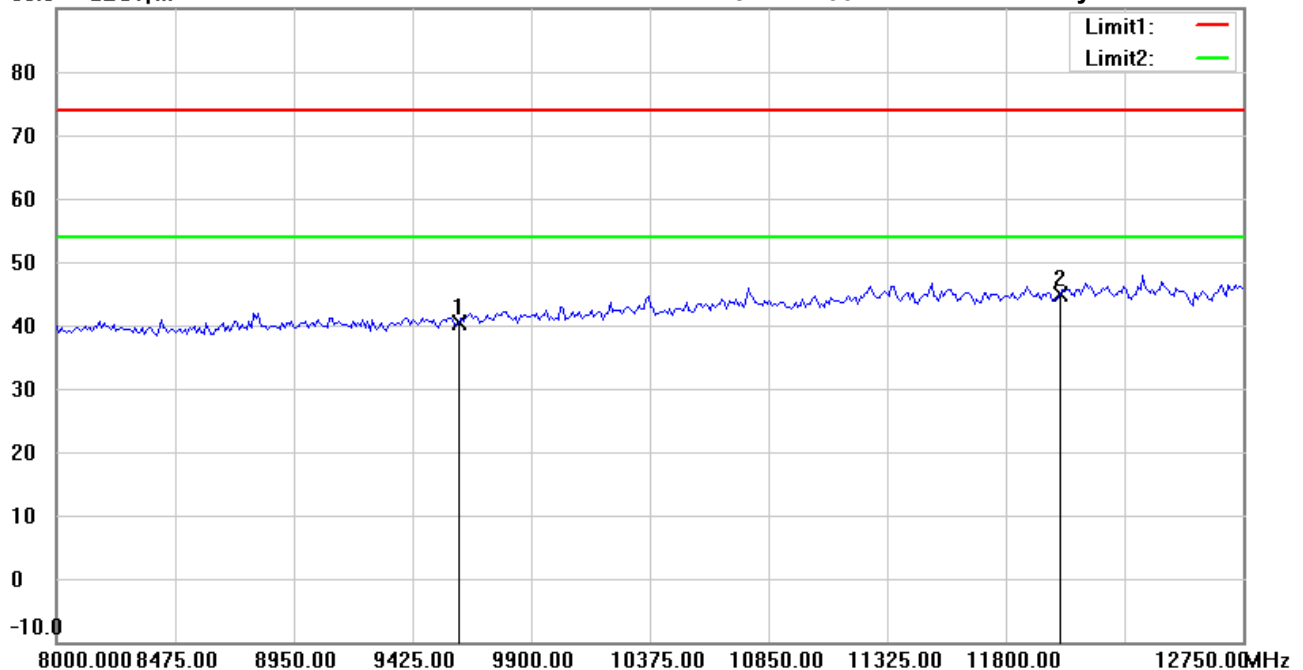
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 2:12:33 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: **Vertical**

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 9608.000        | 33.77          | peak     | 6.70                | 40.47           | 74.00          | 150          | 75             | -33.53      |         |
| *   | 12010.000       | 33.09          | peak     | 11.68               | 44.77           | 74.00          | 150          | 135            | -29.23      |         |

\*:Maximum data    x:Over limit    !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei  
Tel: +886-2-6606-8877  
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Allen

File :3

Data :#4

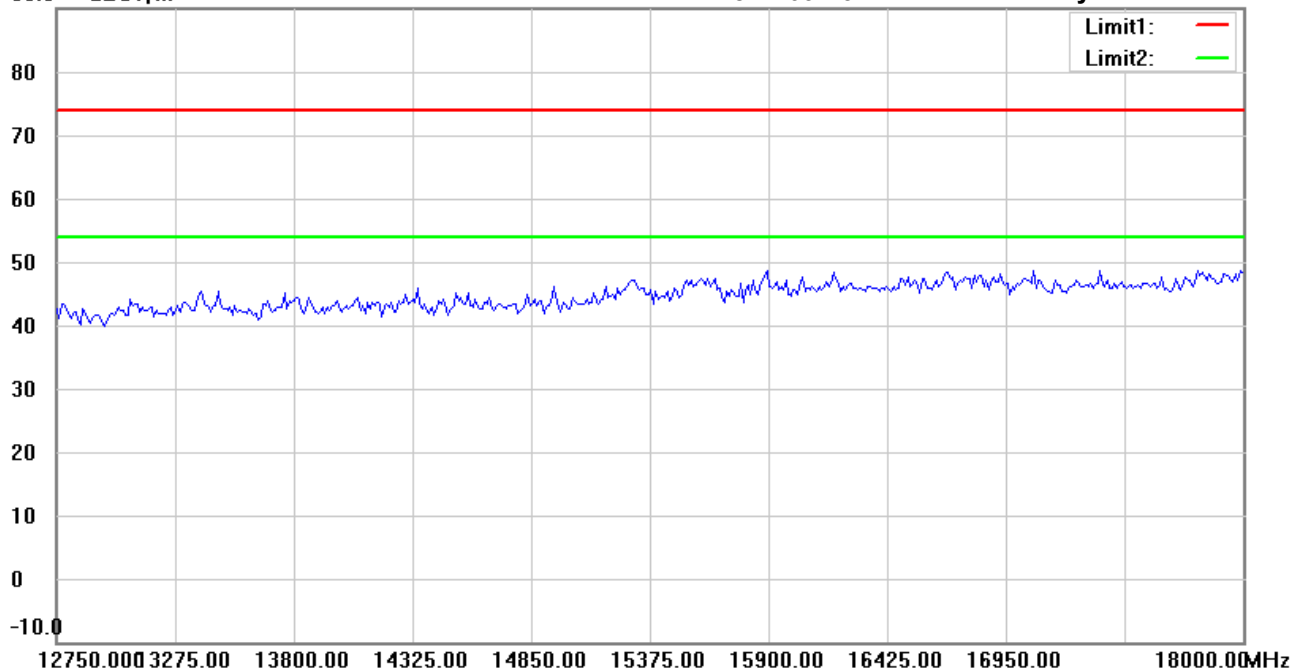
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 2:09:23 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: Horizontal

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #9

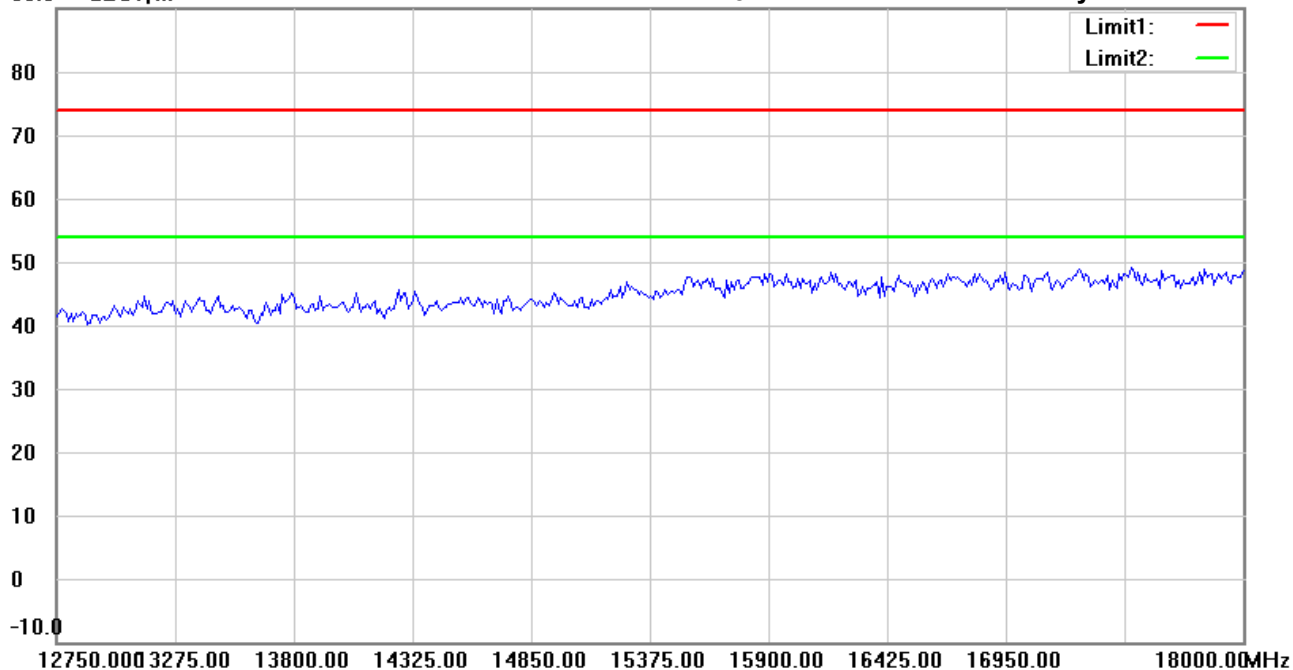
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 2:12:47 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: Vertical

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#5

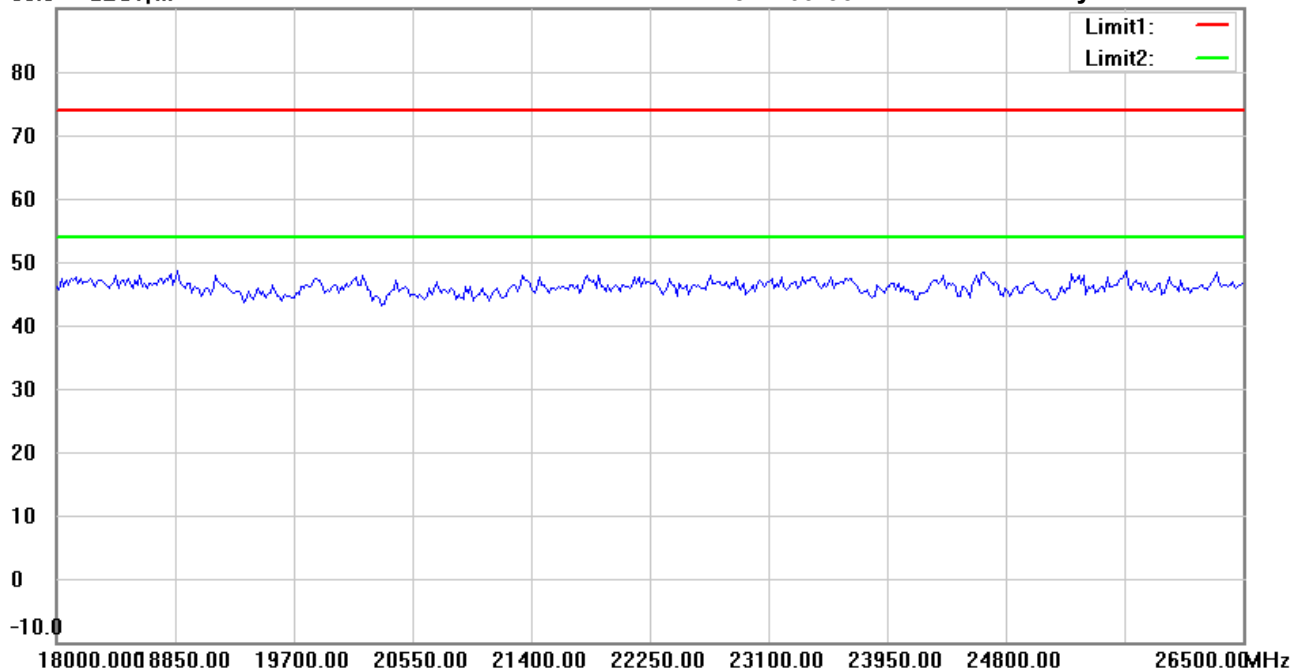
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 2:09:33 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: Horizontal

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin





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Radiated Emission Measurement

Operator: Allen

File :3

Data :#10

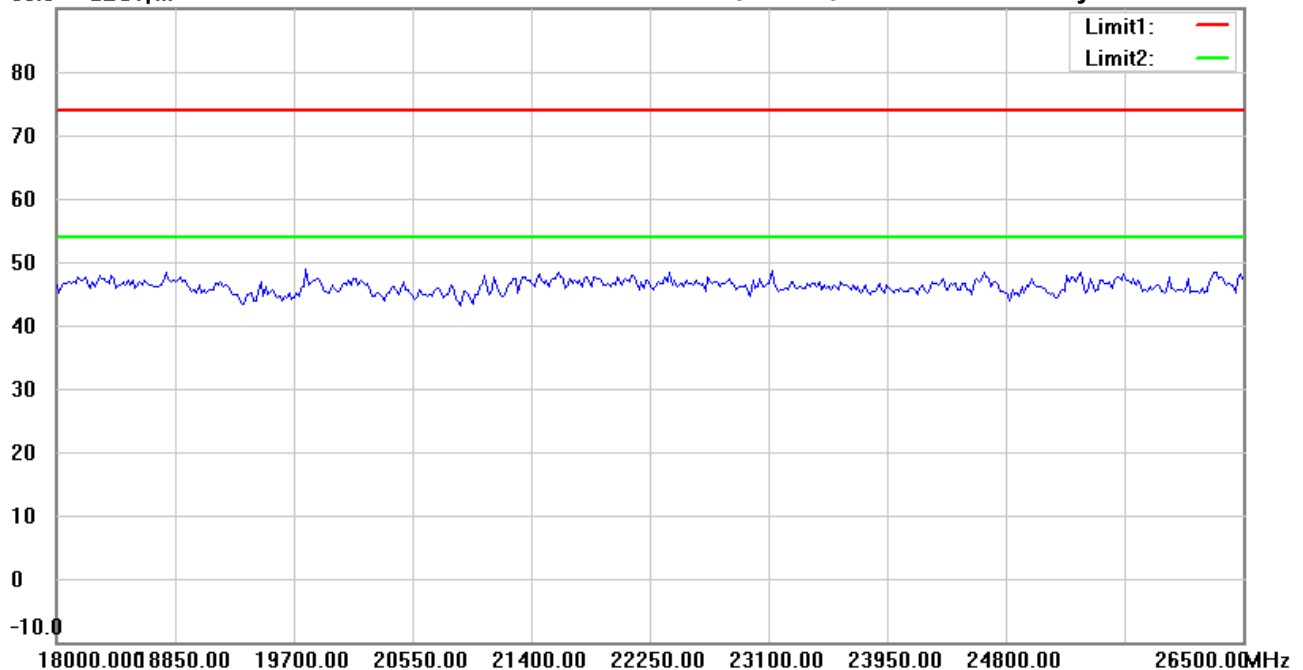
Date: 3/19/2021

Temperature: 24.9 °C

Time: 2:12:57 AM

Humidity: 69.5 %

90.0 dBuV/m



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Vertical*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #1

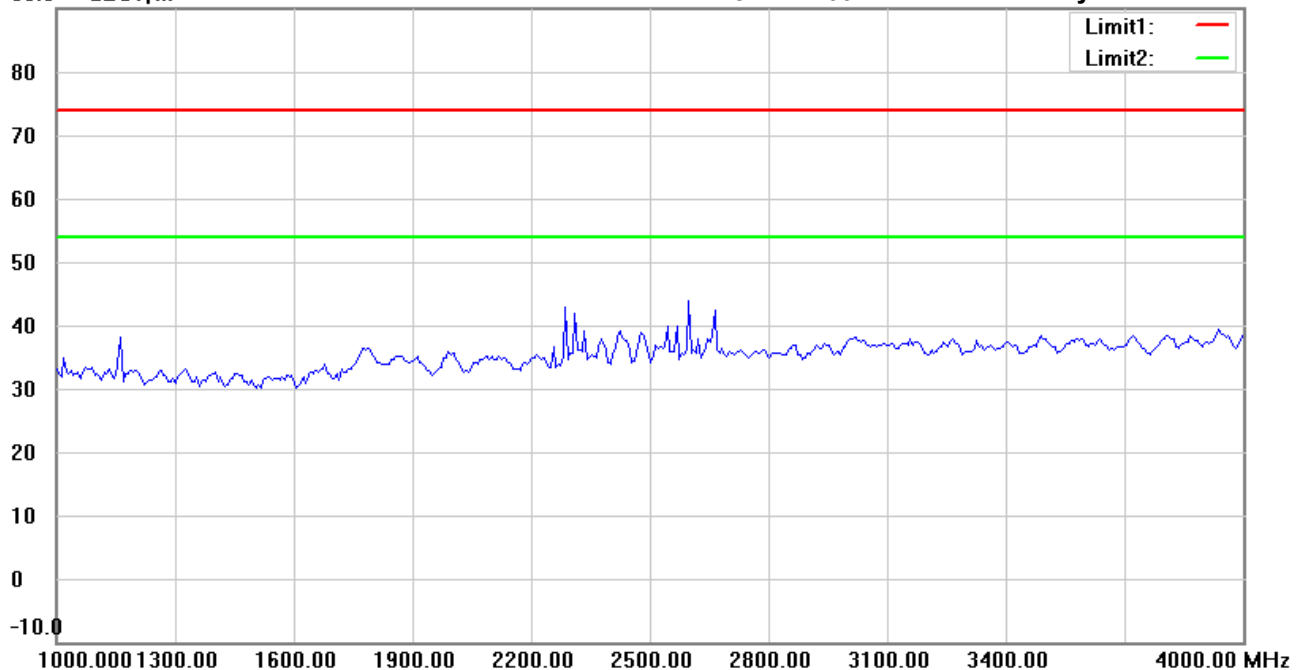
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 2:44:09 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: *Horizontal*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #6

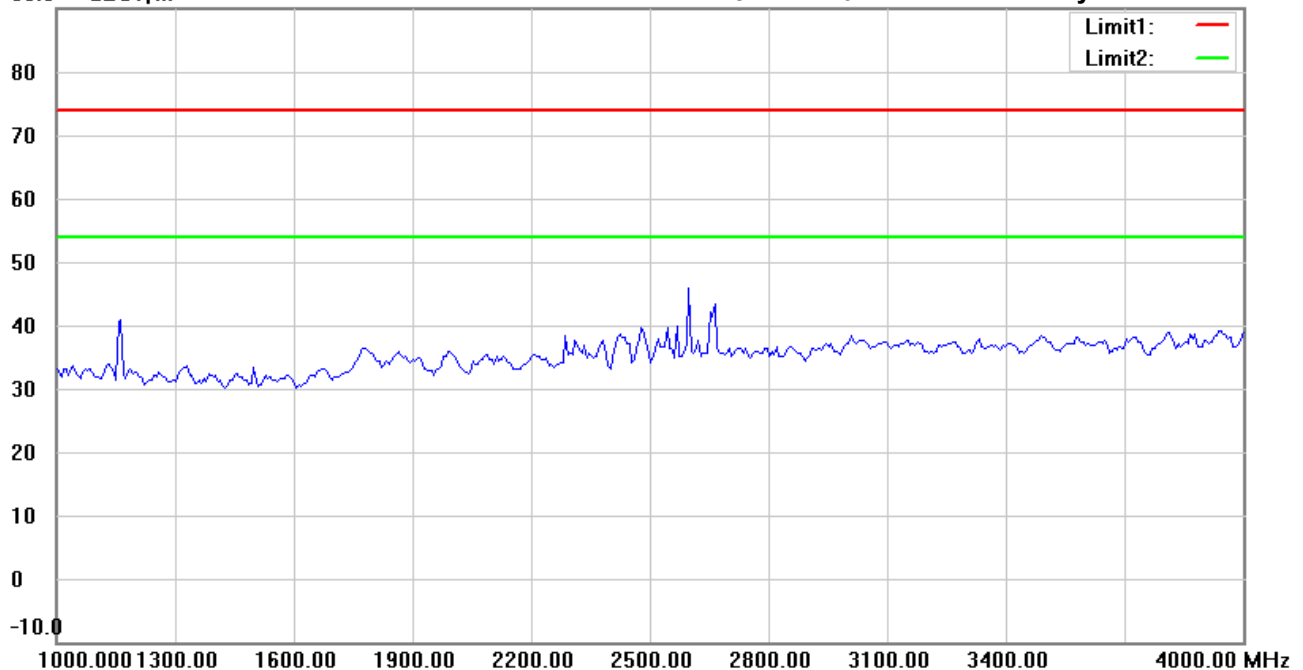
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 2:47:40 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: Vertical

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #2

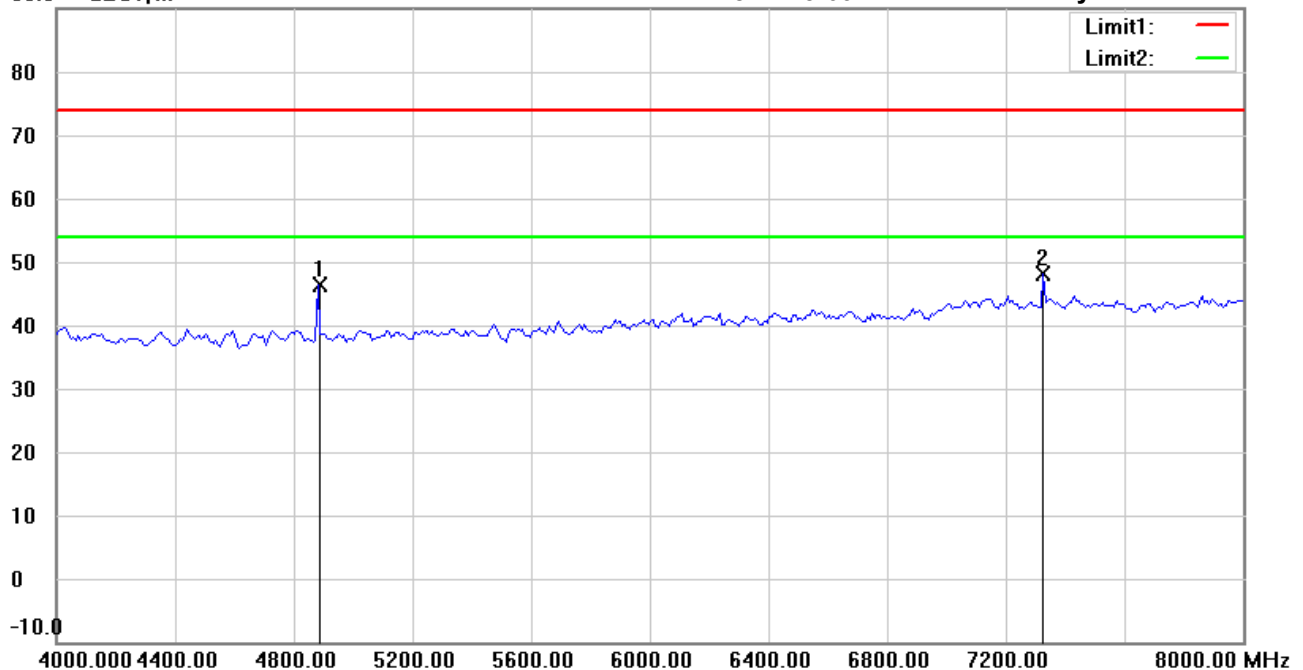
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 2:45:09 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: *Horizontal*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 4881.764        | 47.97          | peak     | -1.60               | 46.37           | 74.00          | 150          | 83             | -27.63      |         |
| *   | 7326.653        | 44.61          | peak     | 3.54                | 48.15           | 74.00          | 150          | 320            | -25.85      |         |

\*:Maximum data    x:Over limit    !:over margin



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# Radiated Emission Measurement

Operator: Allen

File : 3

Data : #7

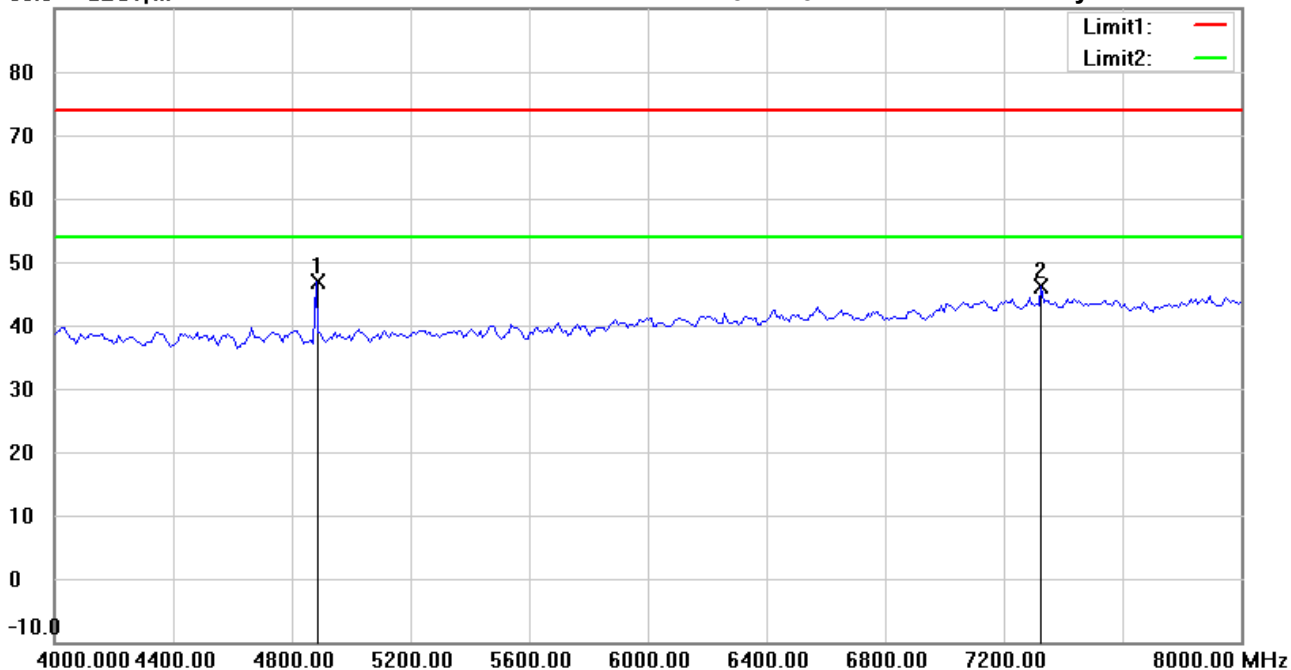
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 2:48:41 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: **Vertical**

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 4881.764        | 48.48          | peak     | -1.60               | 46.88           | 74.00          | 150          | 270            | -27.12      |         |
|     | 7326.653        | 42.54          | peak     | 3.54                | 46.08           | 74.00          | 150          | 143            | -27.92      |         |

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#3

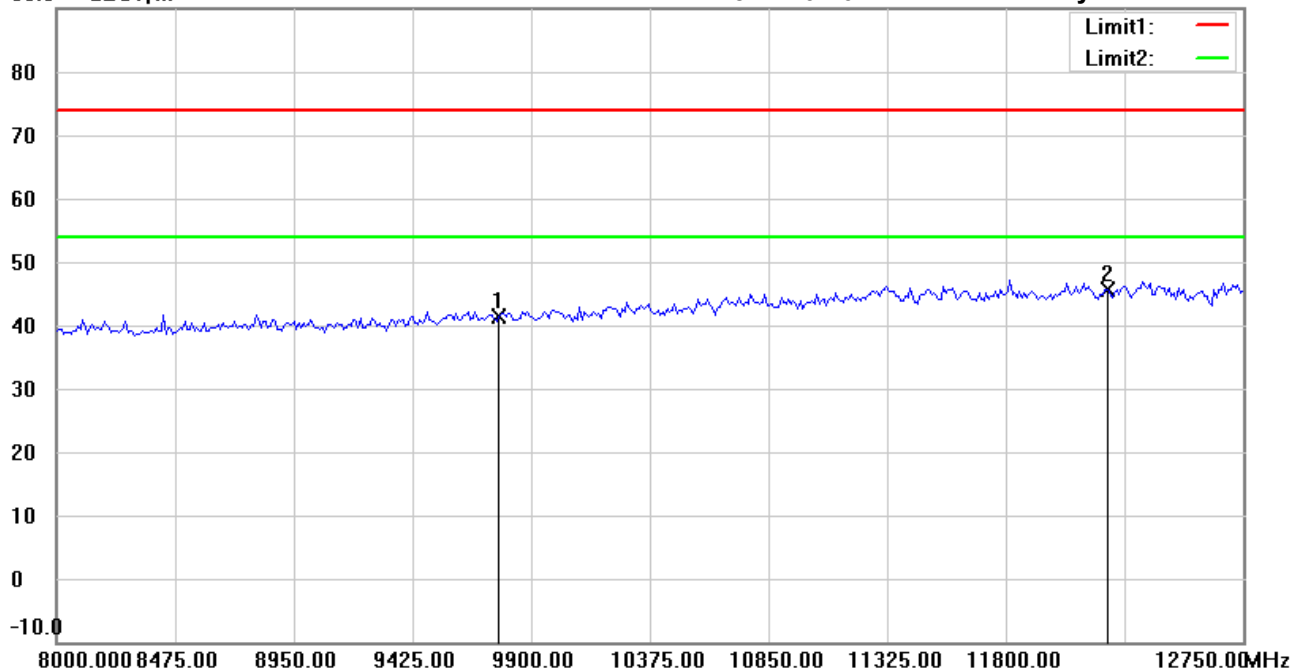
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 2:46:16 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: *Horizontal*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 9764.000        | 34.53          | peak     | 6.85                | 41.38           | 74.00          | 150          | 101            | -32.62      |         |
| *   | 12205.000       | 32.69          | peak     | 12.98               | 45.67           | 74.00          | 150          | 330            | -28.33      |         |

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#8

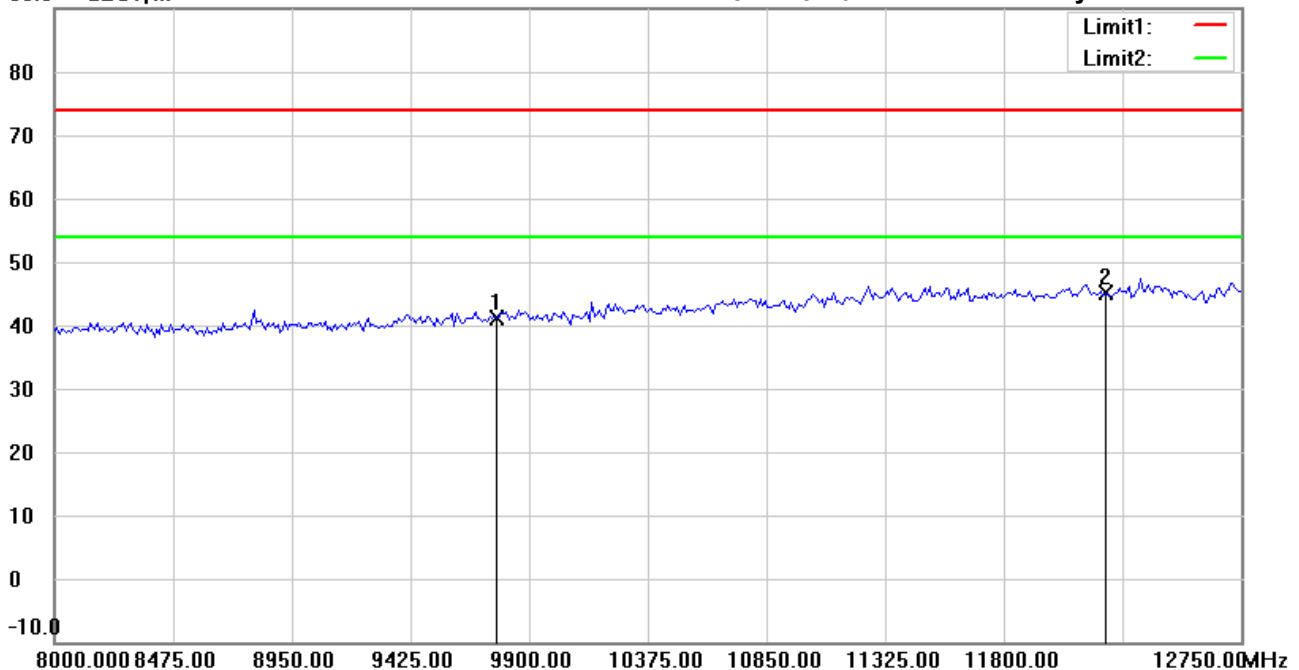
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 2:49:40 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: Vertical

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 9764.000        | 34.18          | peak     | 6.85                | 41.03           | 74.00          | 150          | 37             | -32.97      |         |
| *   | 12205.000       | 32.20          | peak     | 12.98               | 45.18           | 74.00          | 150          | 250            | -28.82      |         |

\*:Maximum data    x:Over limit    !:over margin



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Tel: +886-2-6606-8877  
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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #4

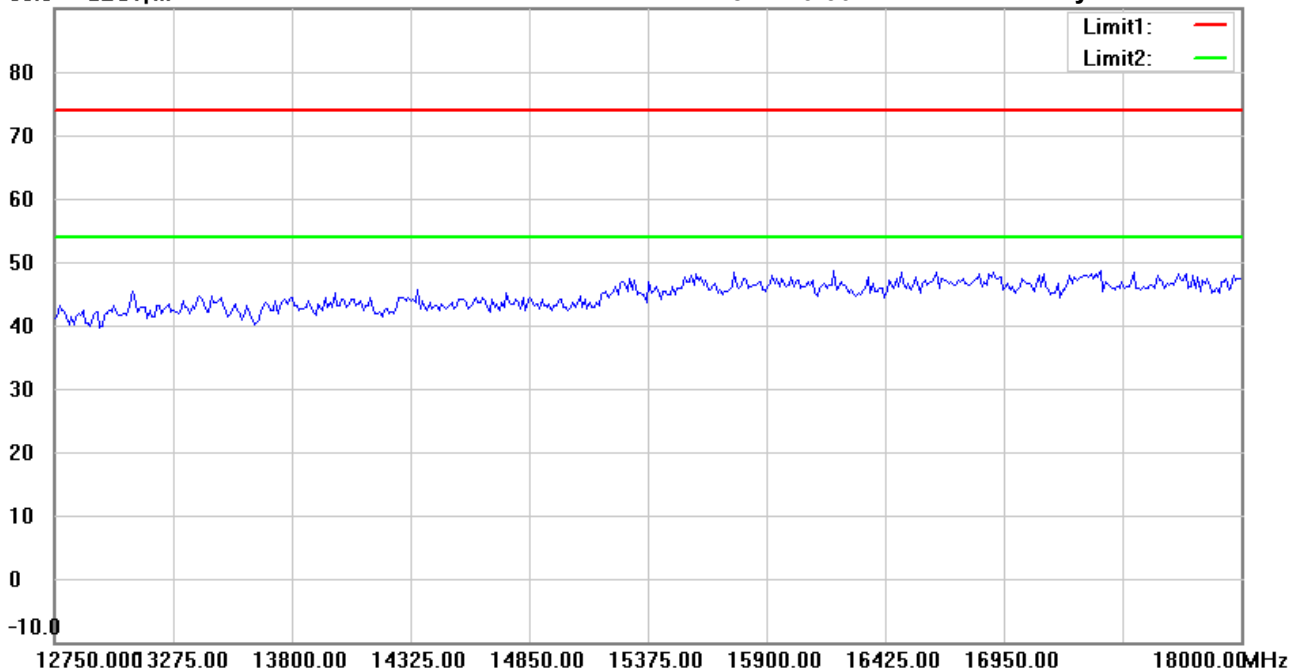
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 2:46:30 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: *Horizontal*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin





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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #9

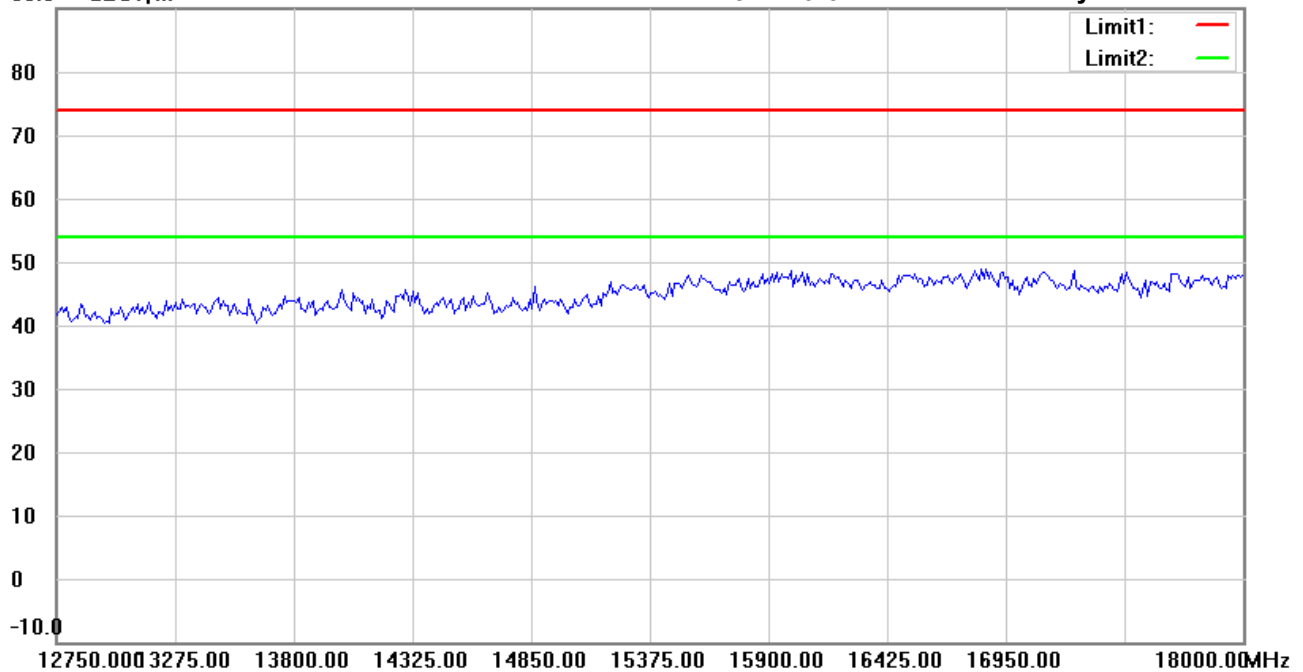
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 2:49:54 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: Vertical

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#5

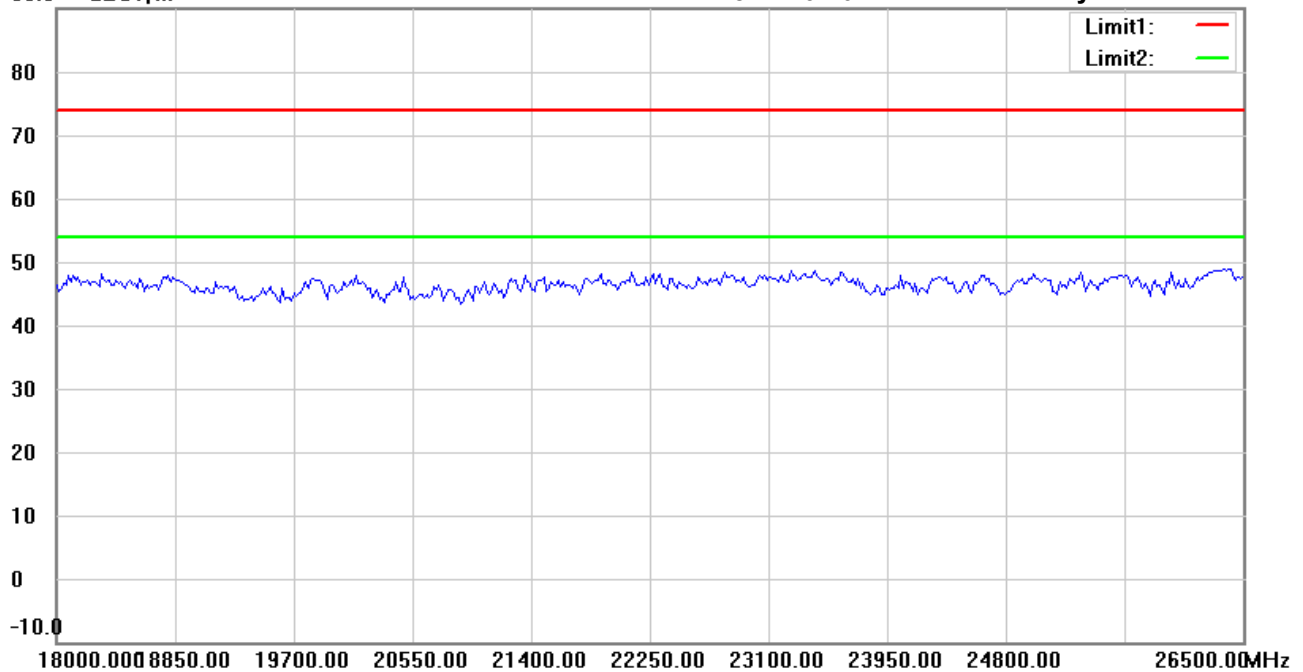
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 2:46:40 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: *Horizontal*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#10

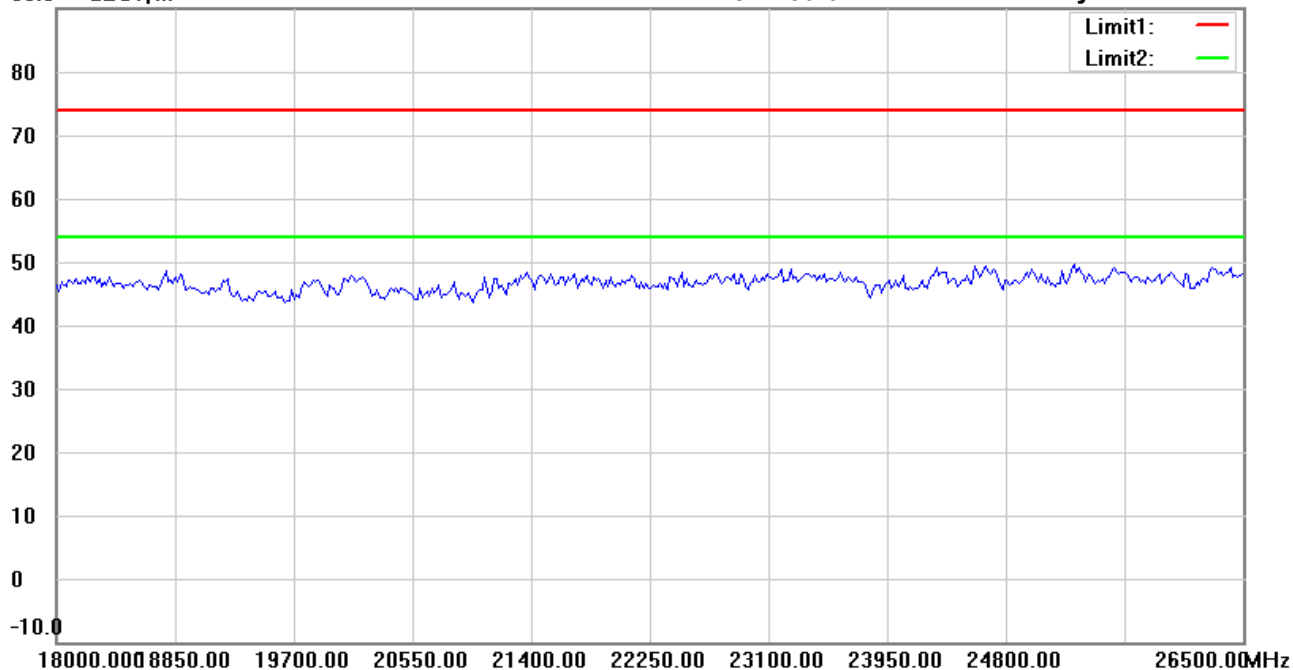
Date: 3/19/2021

Temperature: 24.9 °C

Time: 2:50:04 AM

Humidity: 69.5 %

90.0 dBuV/m



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: *Vertical*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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# Radiated Emission Measurement

Operator: Allen

File : 3

Data : #1

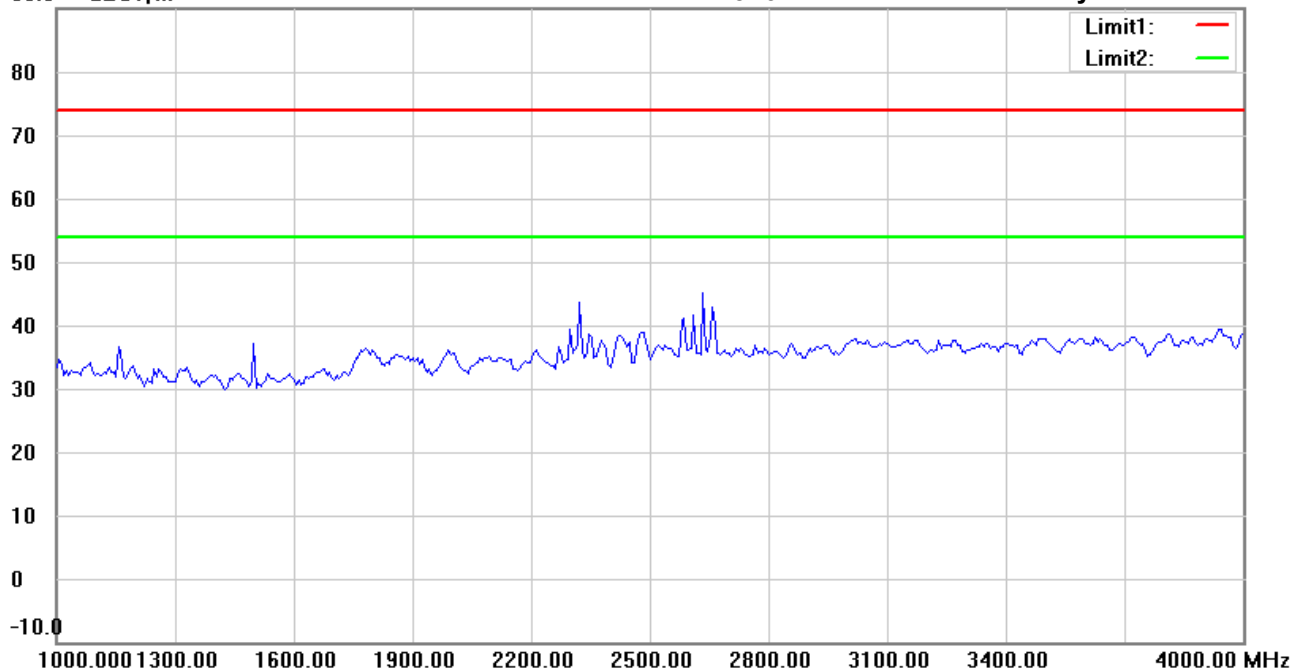
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:14:41 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: *Horizontal*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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# Radiated Emission Measurement

Operator: Allen

File : 3

Data : #6

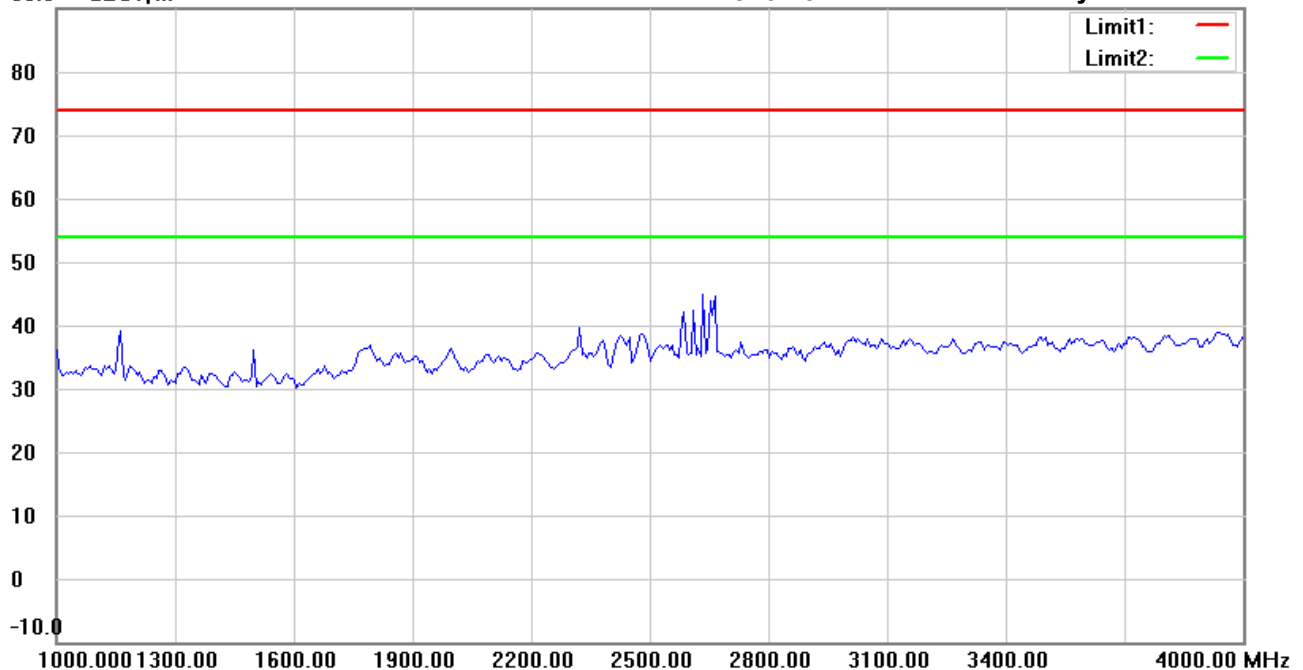
Date: 3/19/2021

Temperature: 24.9 °C

Time: 3:18:12 AM

Humidity: 69.5 %

90.0 dBuV/m



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: Vertical

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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# Radiated Emission Measurement

Operator: Allen

File : 3

Data : #2

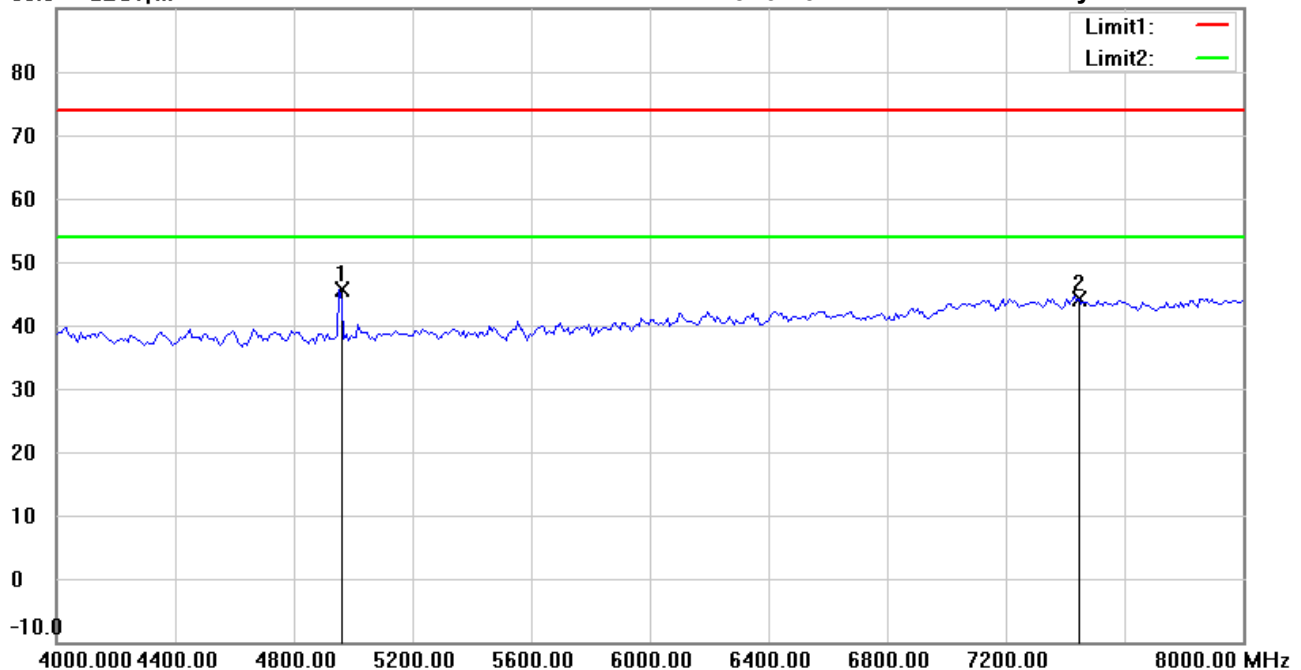
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:15:42 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: **Horizontal**

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 4953.908        | 47.08          | peak     | -1.38               | 45.70           | 74.00          | 150          | 330            | -28.30      |         |
|     | 7440.000        | 40.44          | peak     | 3.76                | 44.20           | 74.00          | 150          | 28             | -29.80      |         |

\*:Maximum data    x:Over limit    !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Neihu, Taipei  
Tel: +886-2-6606-8877  
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Allen

File : 3

Data : #7

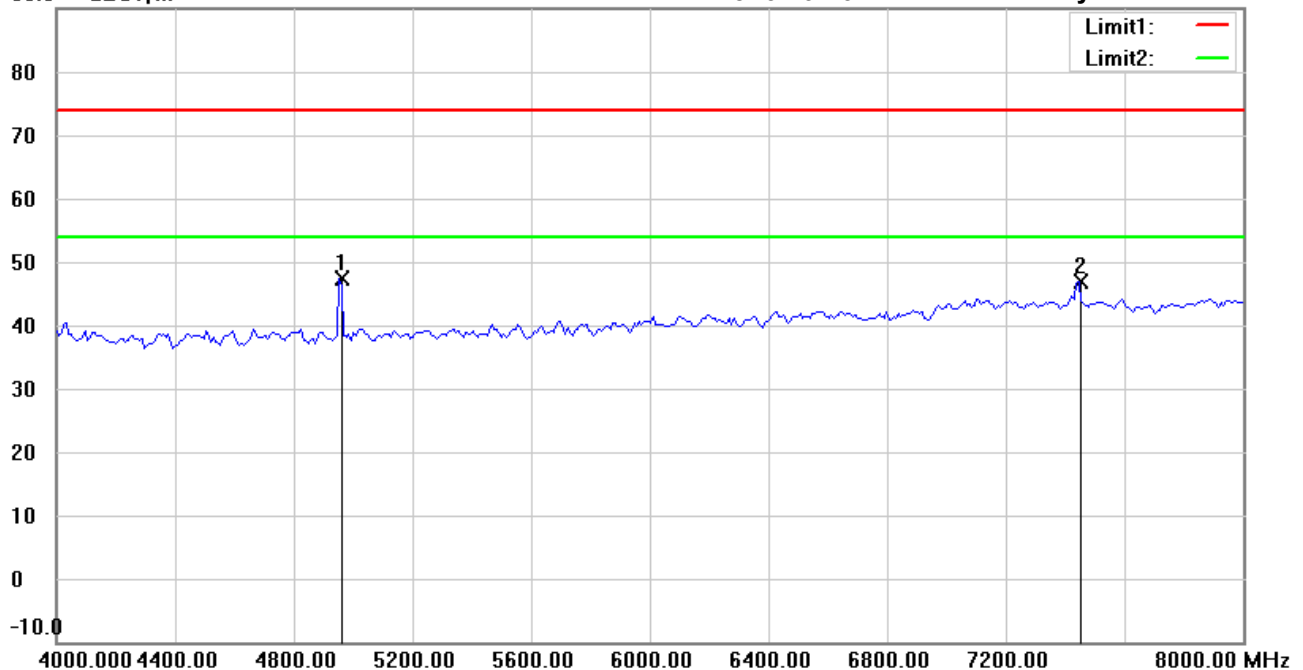
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:19:13 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: **Vertical**

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 4953.908        | 48.69          | peak     | -1.38               | 47.31           | 74.00          | 150          | 155            | -26.69      |         |
|     | 7446.894        | 43.19          | peak     | 3.74                | 46.93           | 74.00          | 150          | 40             | -27.07      |         |

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#3

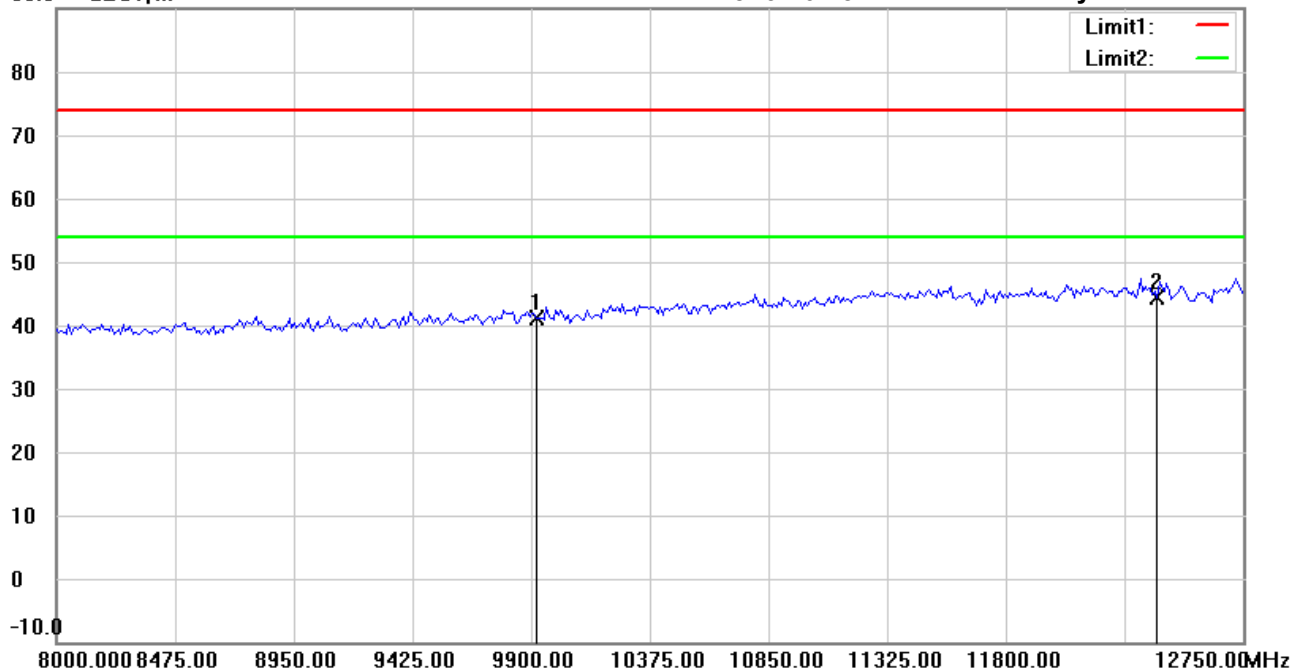
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:16:48 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: *Horizontal*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 9920.000        | 33.91          | peak     | 7.23                | 41.14           | 74.00          | 150          | 35             | -32.86      |         |
| *   | 12400.000       | 31.69          | peak     | 12.81               | 44.50           | 74.00          | 150          | 280            | -29.50      |         |

\*:Maximum data    x:Over limit    !:over margin





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# Radiated Emission Measurement

Operator: Allen

File :3

Data :#8

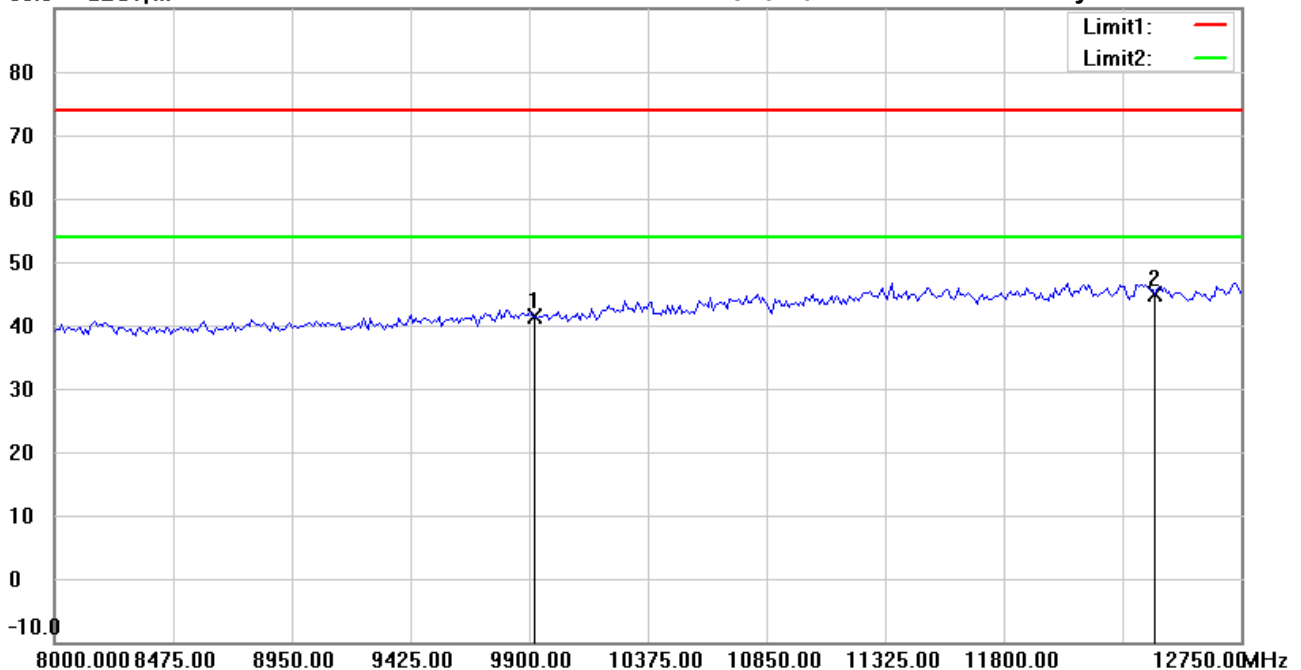
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:20:12 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: Vertical

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 9920.000        | 34.13          | peak     | 7.23                | 41.36           | 74.00          | 150          | 175            | -32.64      |         |
| *   | 12400.000       | 32.14          | peak     | 12.81               | 44.95           | 74.00          | 150          | 200            | -29.05      |         |

\*:Maximum data    x:Over limit    !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei  
Tel: +886-2-6606-8877  
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Radiated Emission Measurement

Operator: Allen

File :3

Data :#4

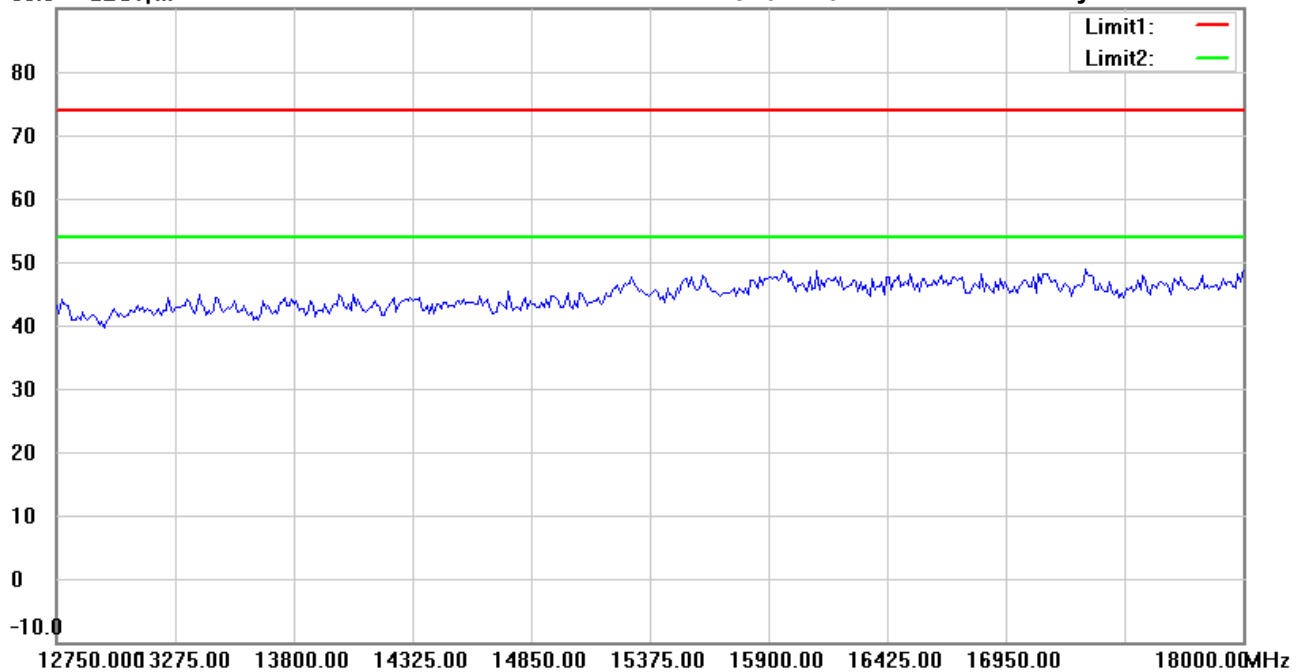
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:17:02 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: Horizontal

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei  
Tel: +886-2-6606-8877  
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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #9

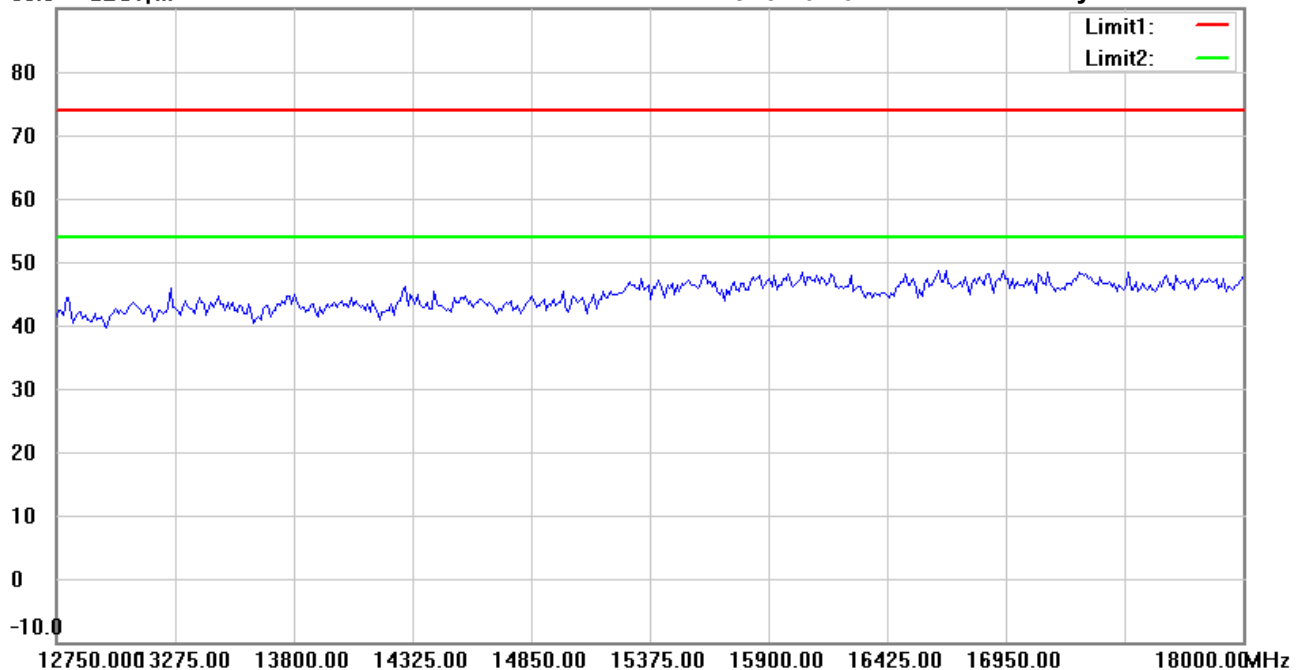
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:20:26 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: Vertical

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#5

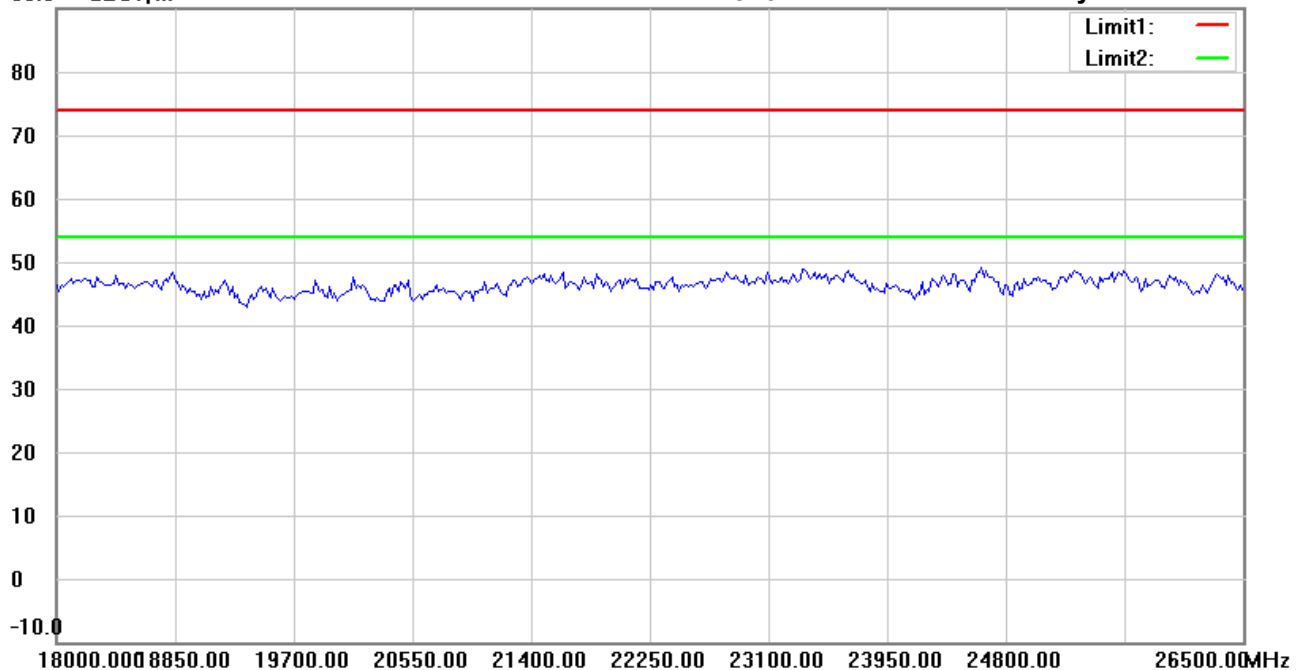
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:17:12 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: *Horizontal*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#10

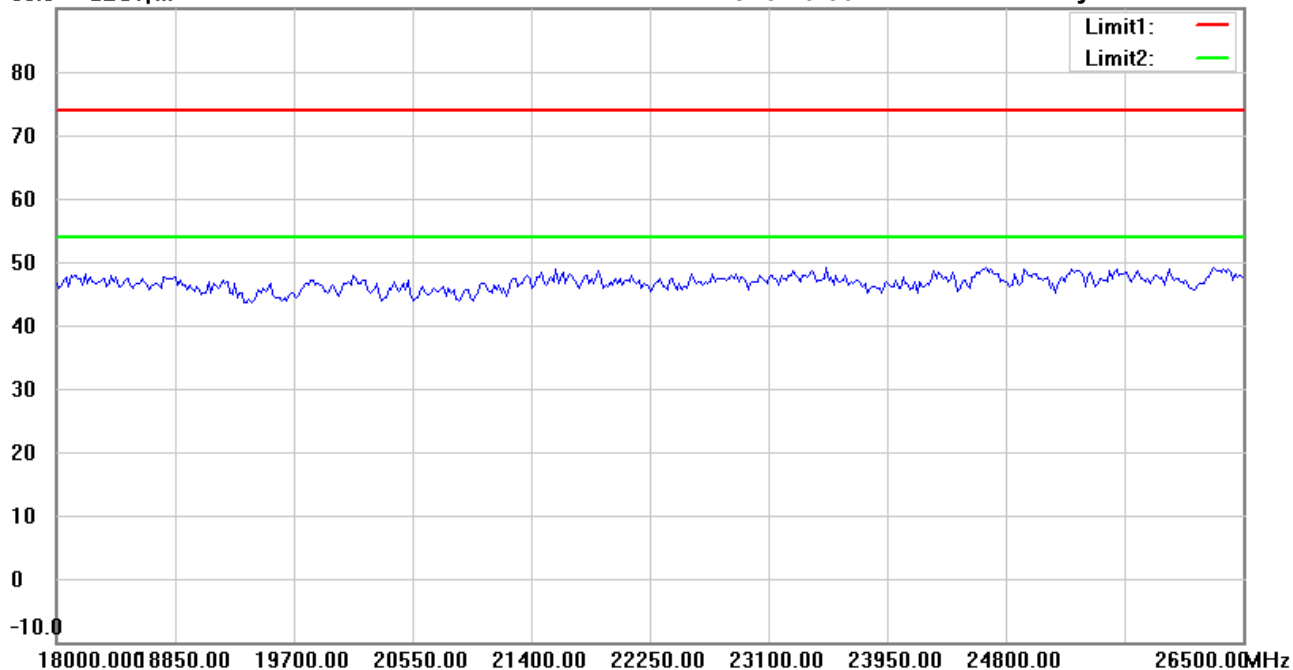
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:20:36 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: *Vertical*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Neihu, Taipei  
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## Radiated Emission Measurement

Operator: Allen

File :3

Data :#1

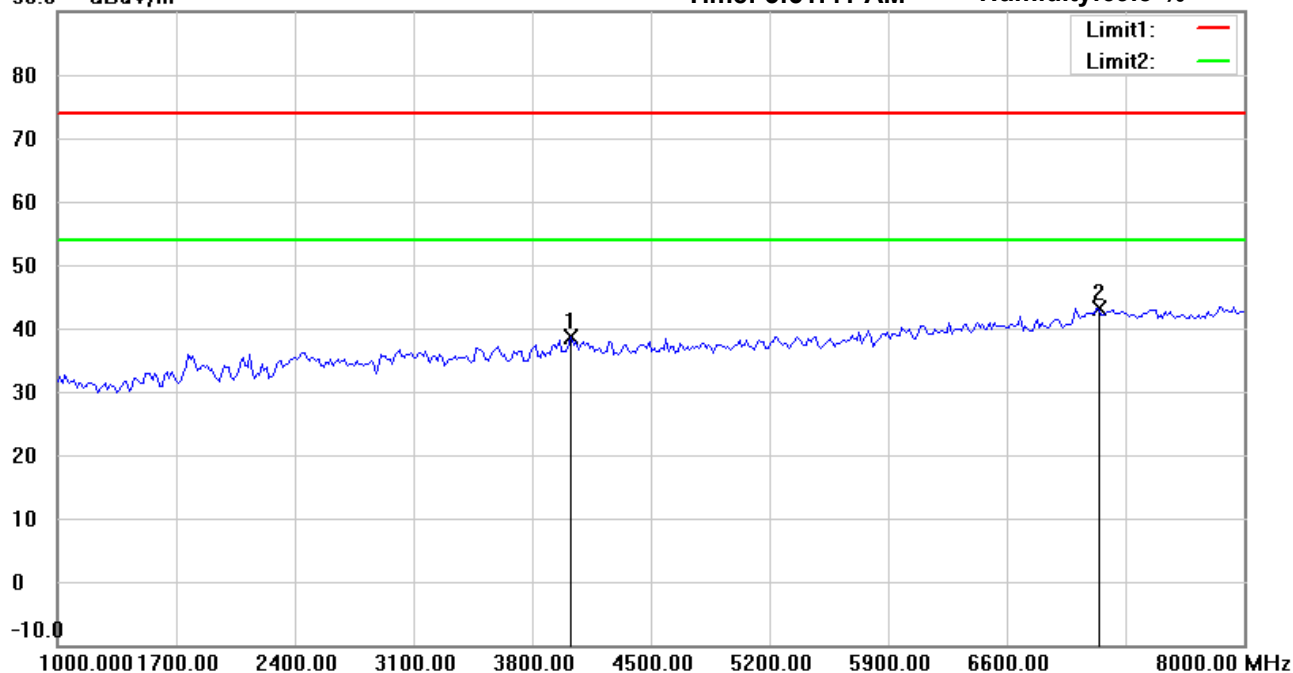
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:51:41 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

Polarization: *Horizontal*

EUT : W6M22102-20652

Power : 8 Vd.c.

M/N:

Distance: 3m

Test Mode : RX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 4030.060        | 40.40          | peak     | -1.80               | 38.60           | 74.00          | 150          | 258            | -35.40      |         |
| *   | 7130.261        | 39.55          | peak     | 3.53                | 43.08           | 74.00          | 150          | 331            | -30.92      |         |



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #5

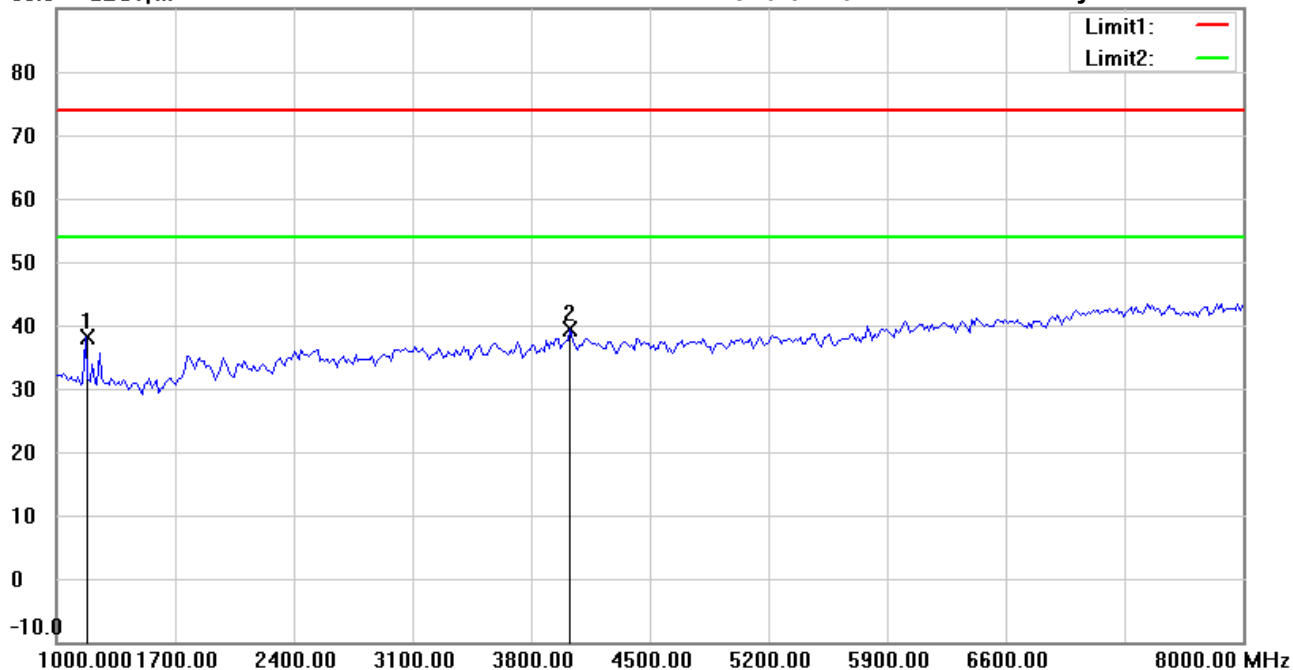
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:52:29 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2402MHz

Note :

Polarization: *Vertical*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 1168.337        | 47.72          | peak     | -9.65               | 38.07           | 74.00          | 150          | 80             | -35.93      |         |
| *   | 4030.060        | 41.30          | peak     | -1.80               | 39.50           | 74.00          | 150          | 114            | -34.50      |         |

\*:Maximum data    x:Over limit    !:over margin



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Tel: +886-2-6606-8877  
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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #2

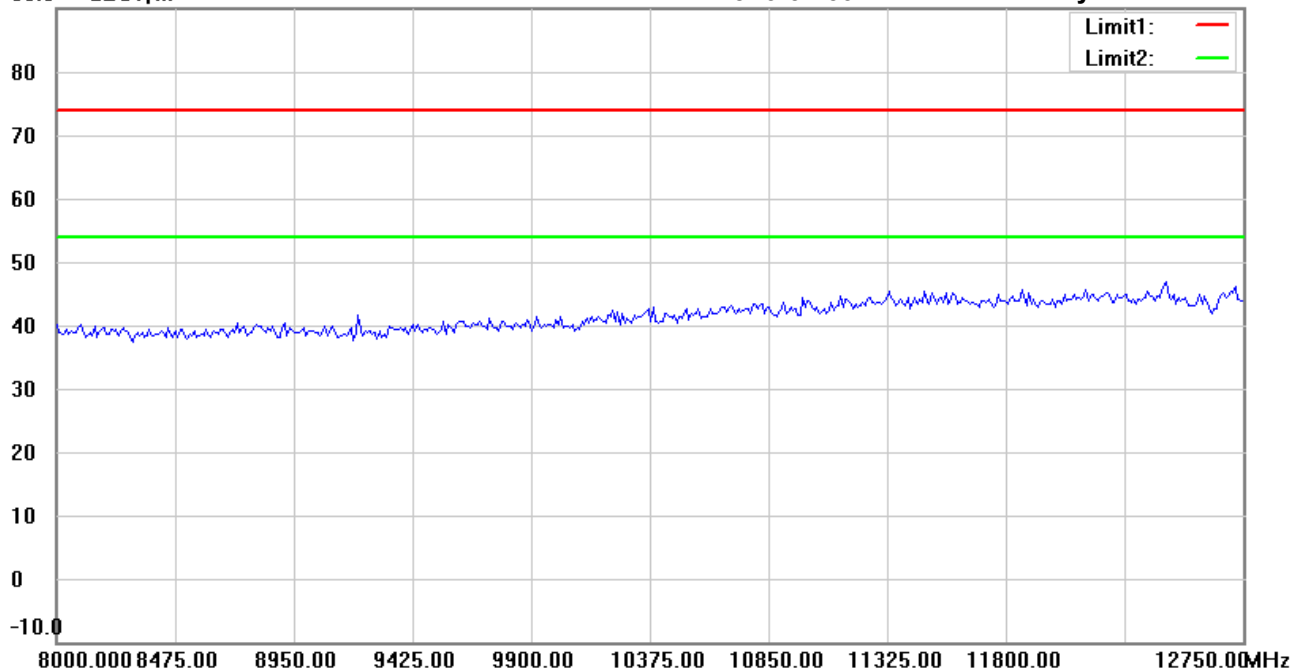
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:51:53 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2402MHz

Note :

Polarization: *Horizontal*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin





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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #6

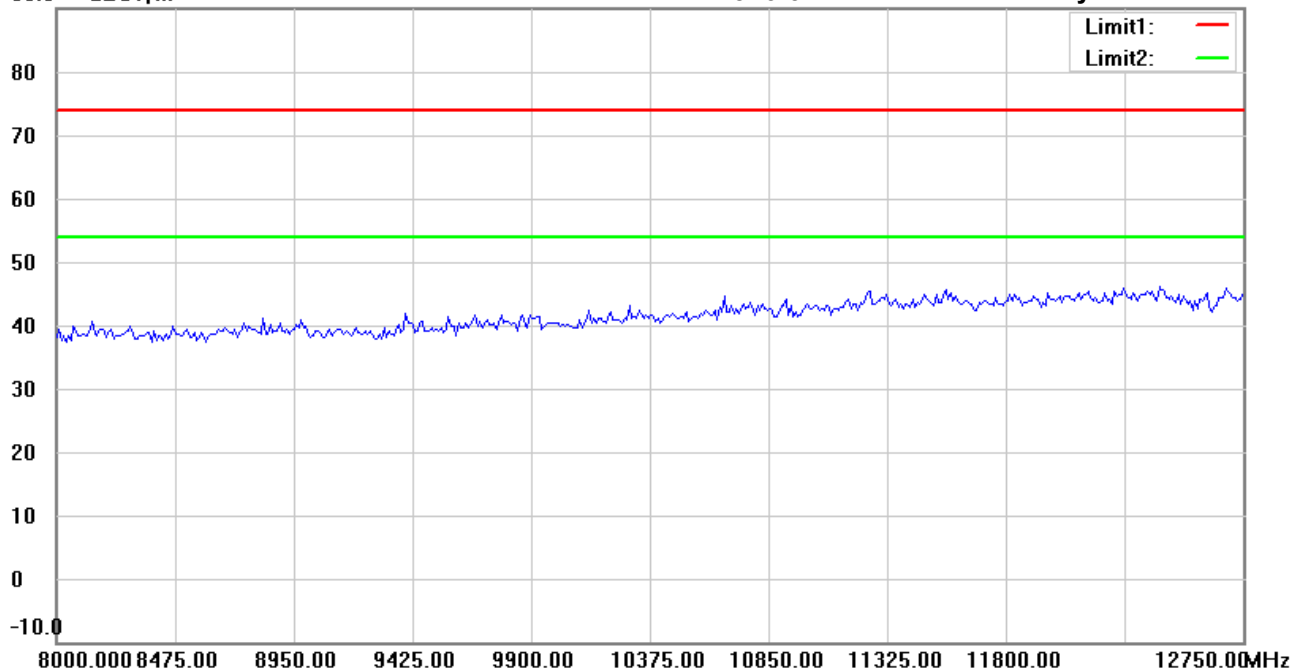
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:52:41 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2402MHz

Note :

Polarization: *Vertical*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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### Radiated Emission Measurement

Operator: Allen

File : 3

Data : #3

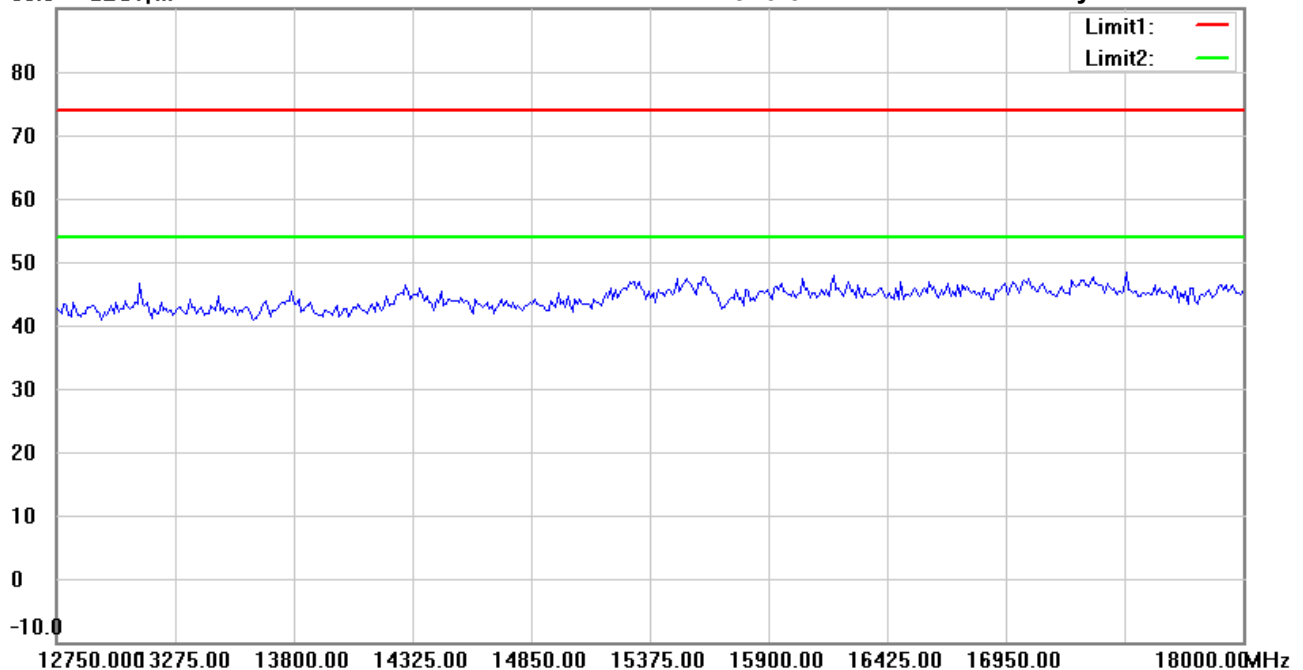
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:52:14 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2402MHz

Note :

Polarization: Horizontal

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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# Radiated Emission Measurement

Operator: Allen

File : 3

Data : #7

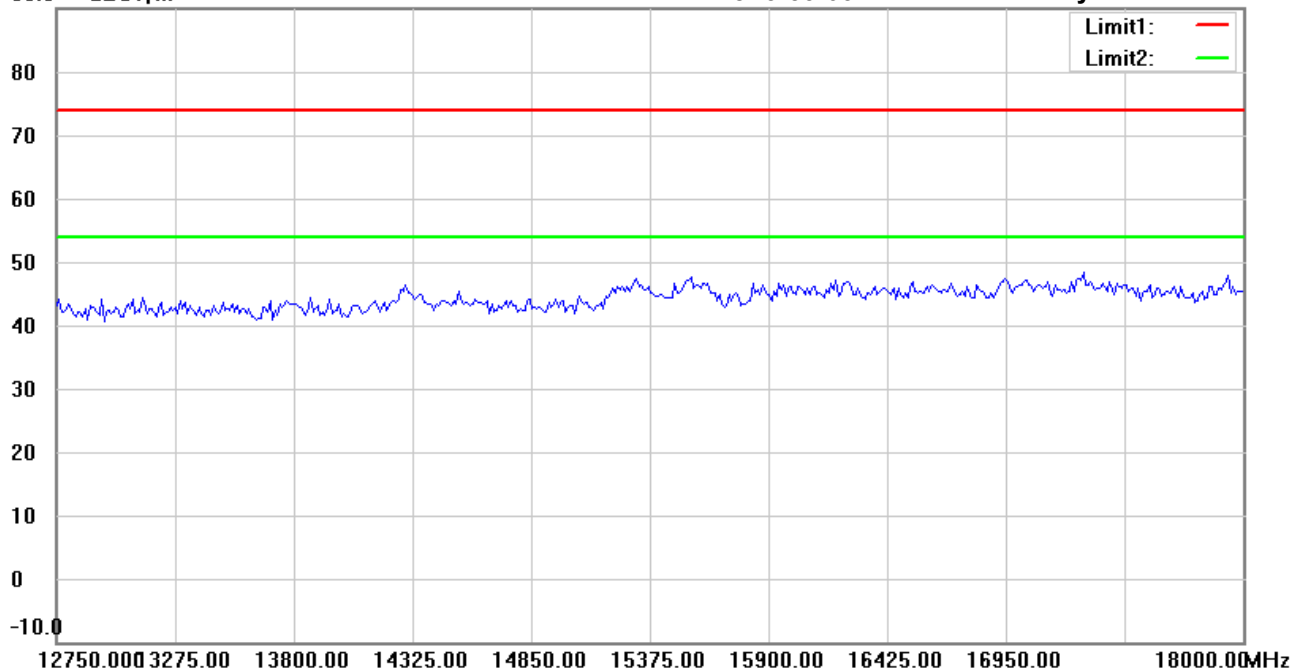
Date: 3/19/2021

Temperature: 24.9 °C

Time: 3:53:03 AM

Humidity: 69.5 %

90.0 dBuV/m



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2402MHz

Note :

Polarization: Vertical

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data x:Over limit !:over margin



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Tel: +886-2-6606-8877  
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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #4

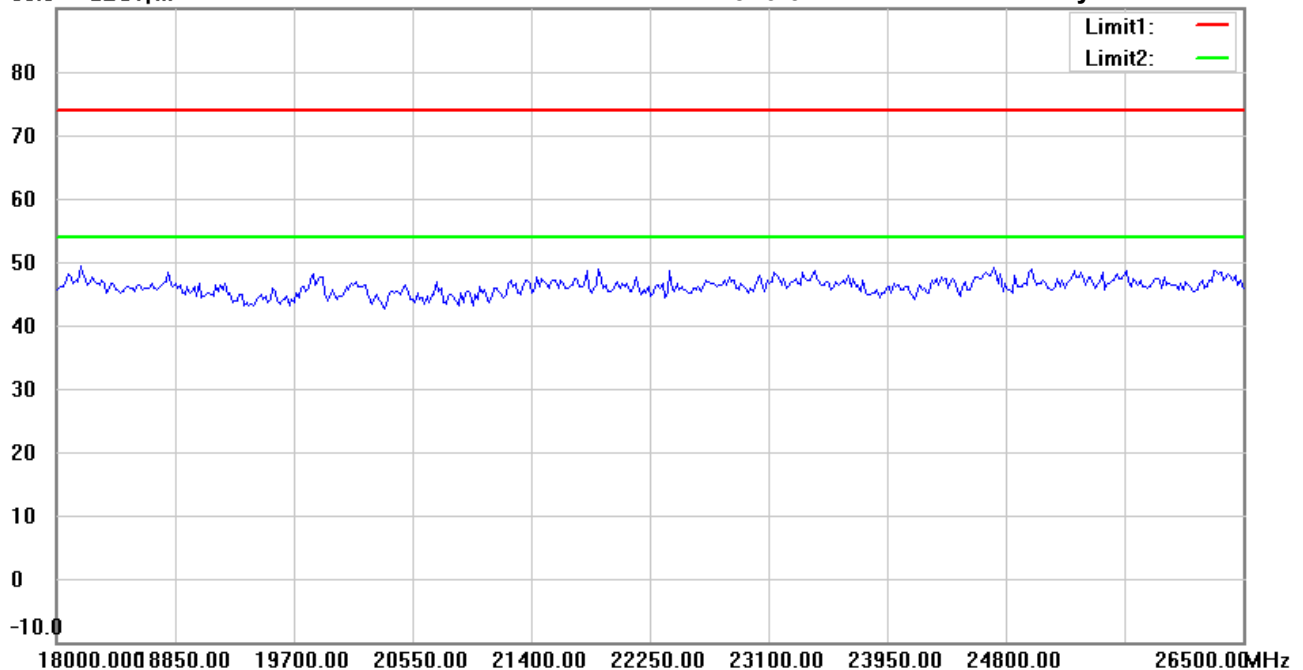
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:52:21 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2402MHz

Note :

Polarization: Horizontal

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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# Radiated Emission Measurement

Operator: Allen

File : 3

Data : #8

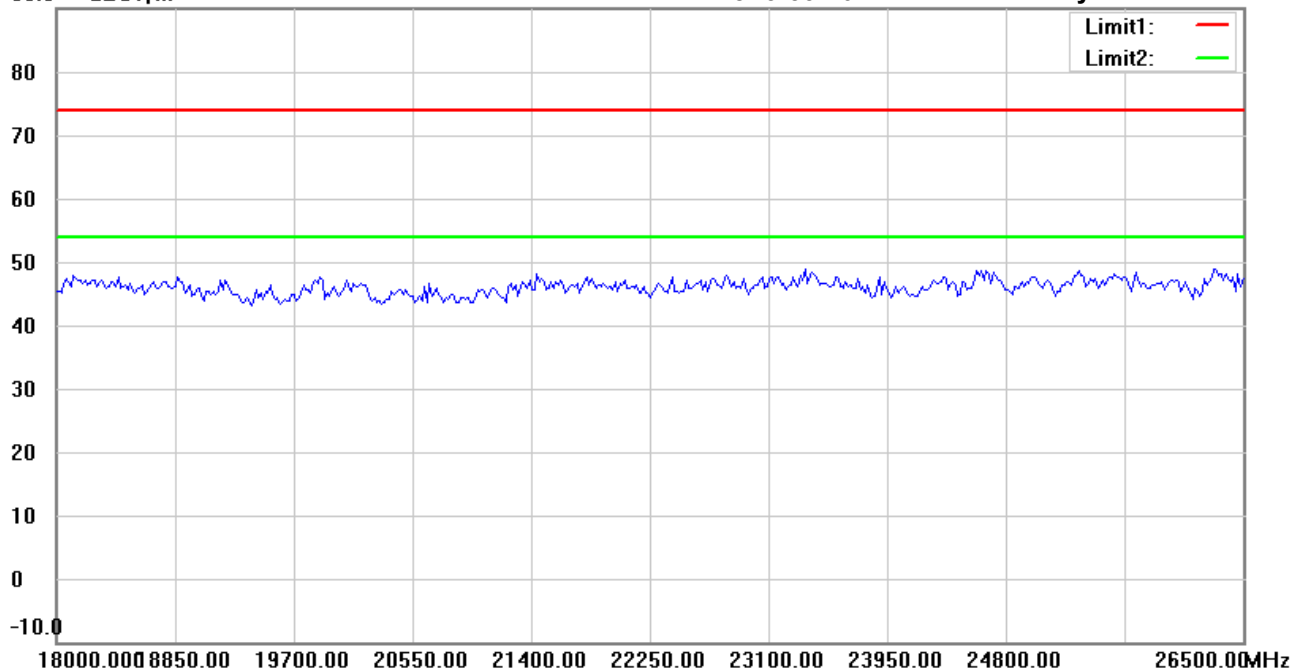
Date: 3/19/2021

Temperature: 24.9 °C

Time: 3:53:10 AM

Humidity: 69.5 %

90.0 dBuV/m



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2402MHz

Note :

Polarization: Vertical

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #1

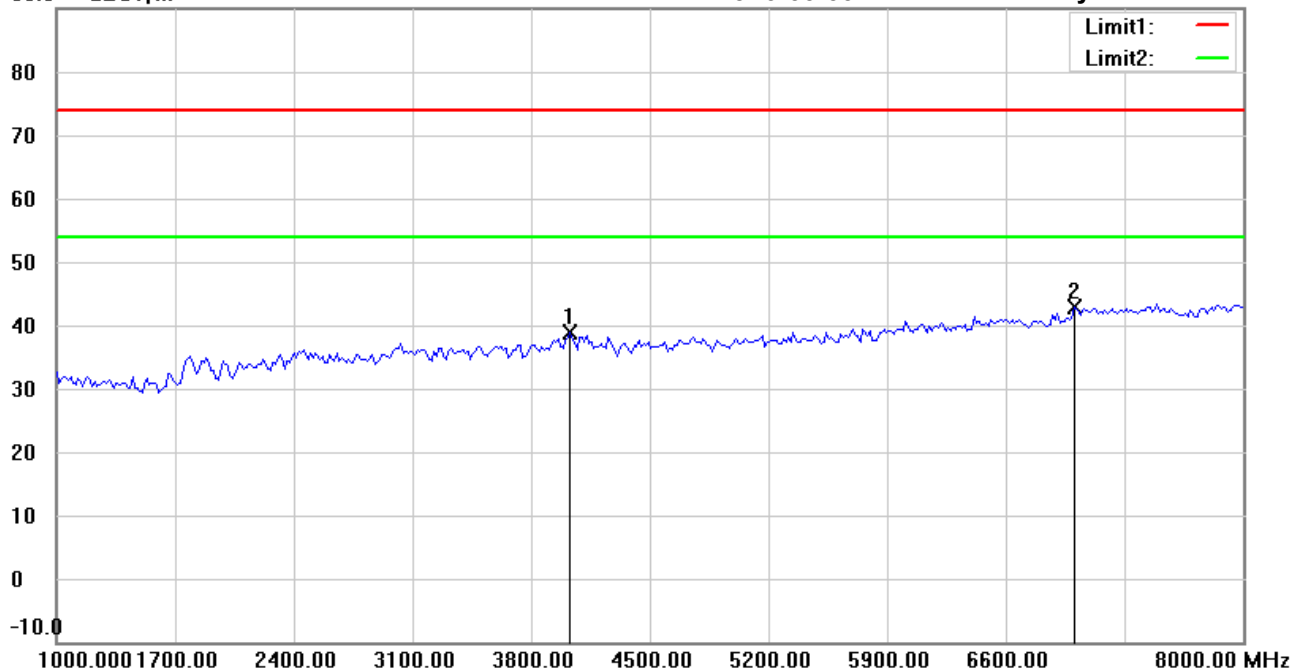
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:55:55 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2441MHz

Note :

Polarization: *Horizontal*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 4030.060        | 40.76          | peak     | -1.80               | 38.96           | 74.00          | 150          | 130            | -35.04      |         |
| *   | 7004.008        | 39.27          | peak     | 3.56                | 42.83           | 74.00          | 150          | 47             | -31.17      |         |

\*:Maximum data    x:Over limit    !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Neihu, Taipei  
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Radiated Emission Measurement

Operator: Allen

File :3

Data :#5

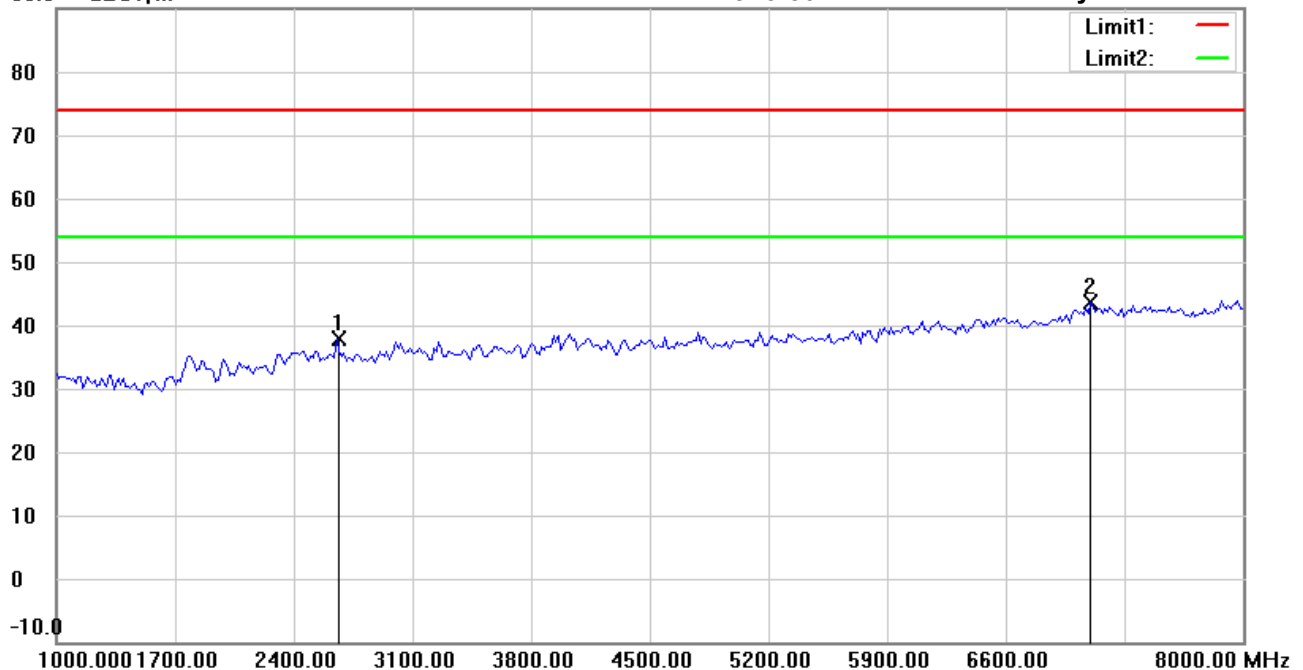
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:56:44 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2441MHz

Note :

Polarization: **Vertical**

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 2655.311        | 43.38          | peak     | -5.48               | 37.90           | 74.00          | 150          | 220            | -36.10      |         |
| *   | 7102.204        | 40.14          | peak     | 3.61                | 43.75           | 74.00          | 150          | 85             | -30.25      |         |

\*:Maximum data    x:Over limit    !:over margin



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Fax: +886-2-6606-8879

### Radiated Emission Measurement

Operator: Allen

File : 3

Data : #2

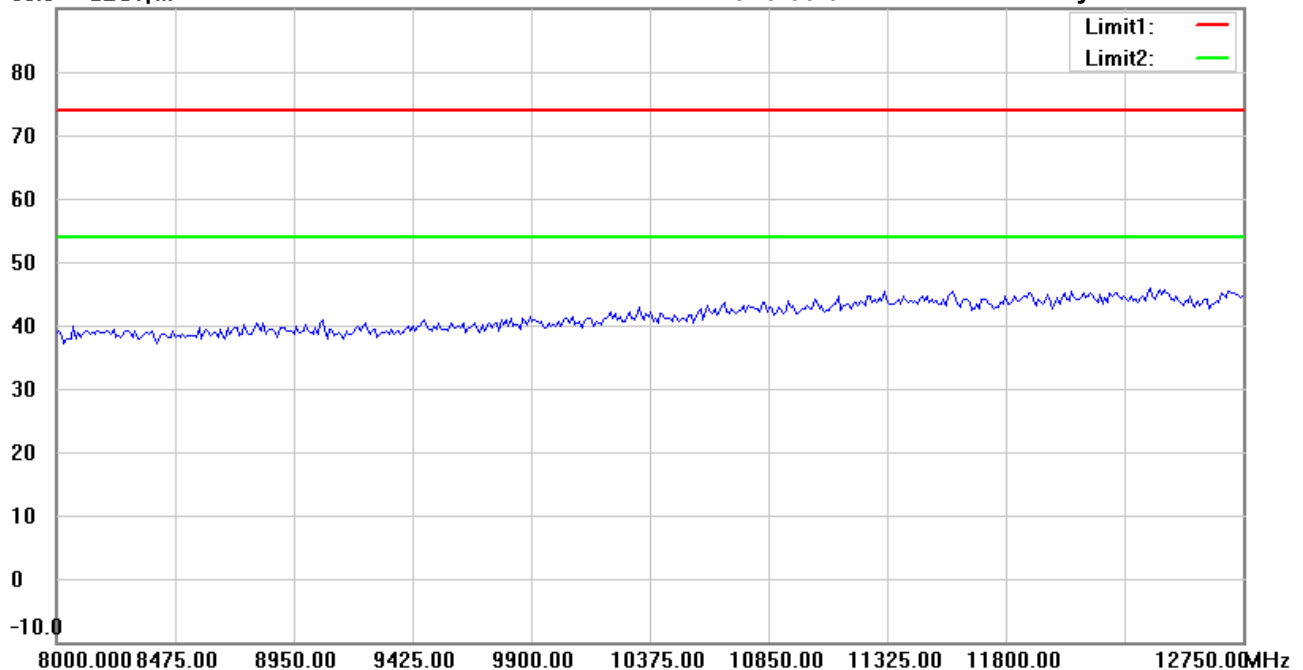
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:56:07 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2441MHz

Note :

Polarization: *Horizontal*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin





Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei  
Tel: +886-2-6606-8877  
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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #6

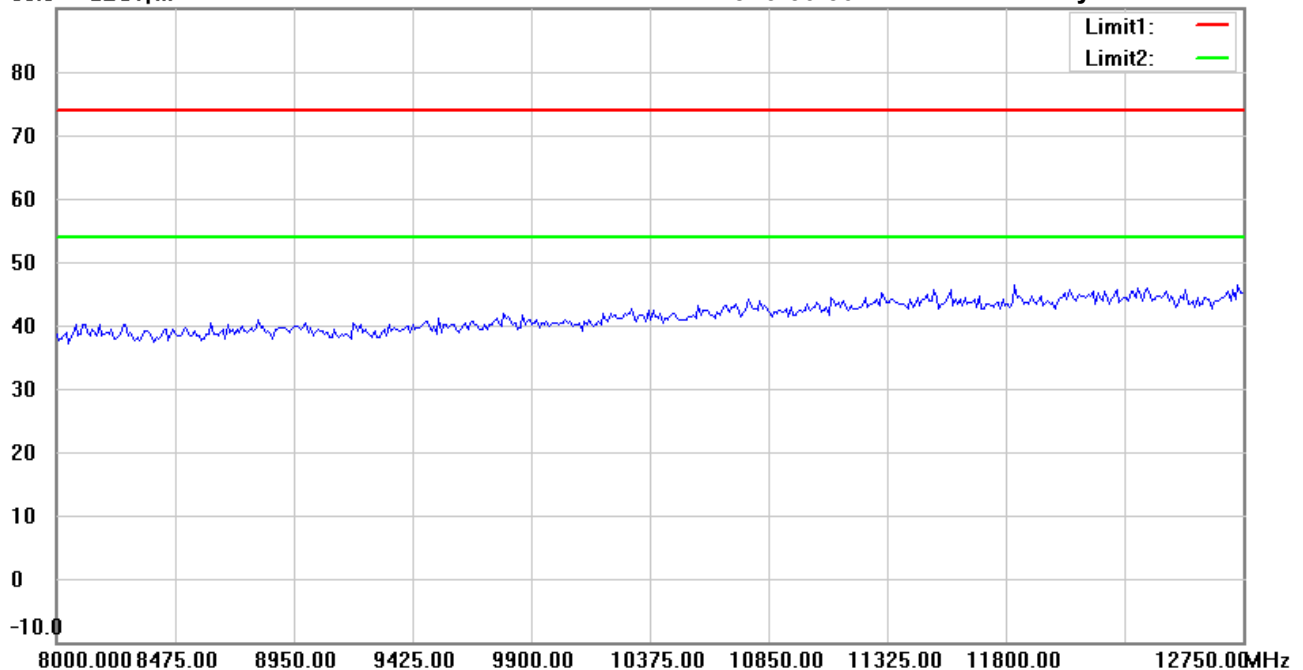
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:56:56 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2441MHz

Note :

Polarization: *Vertical*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #3

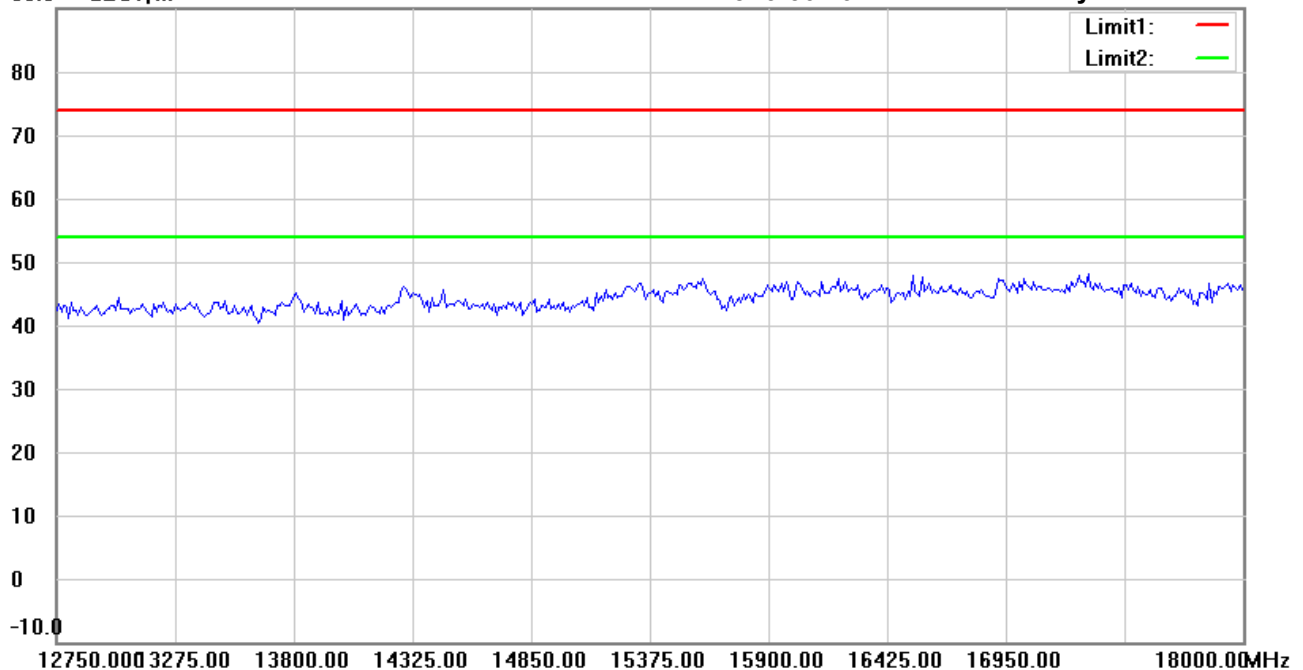
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:56:29 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2441MHz

Note :

Polarization: *Horizontal*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #7

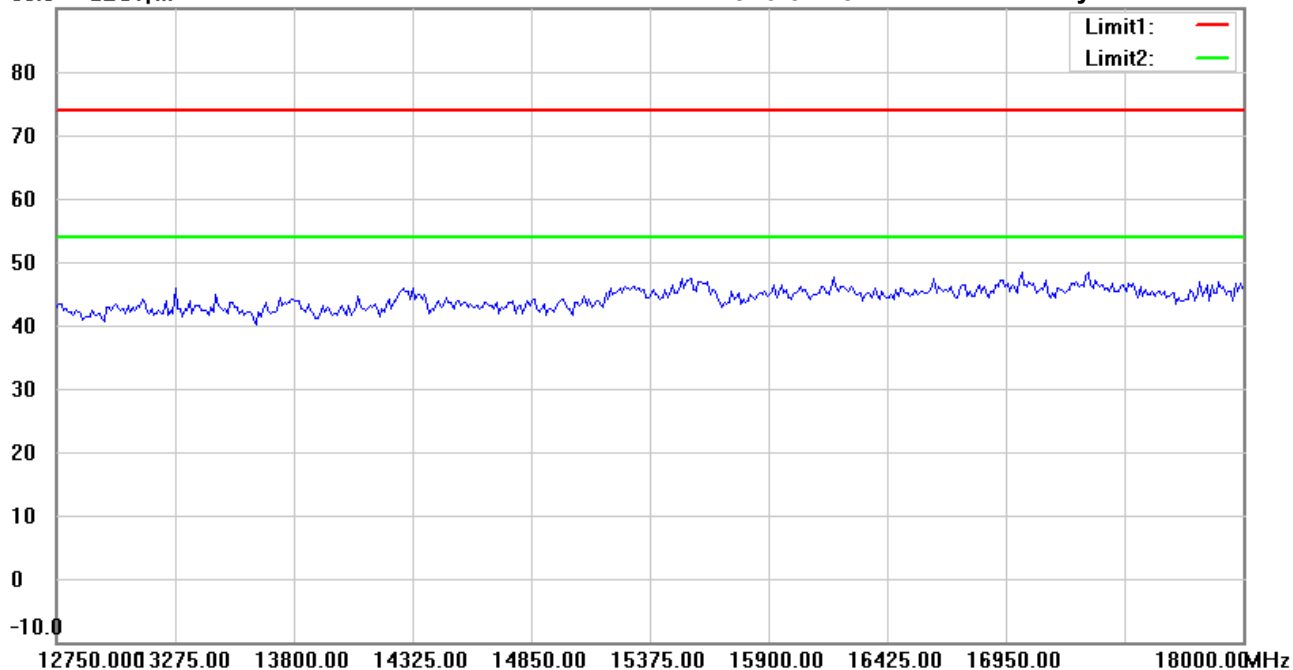
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:57:18 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2441MHz

Note :

Polarization: Vertical

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #4

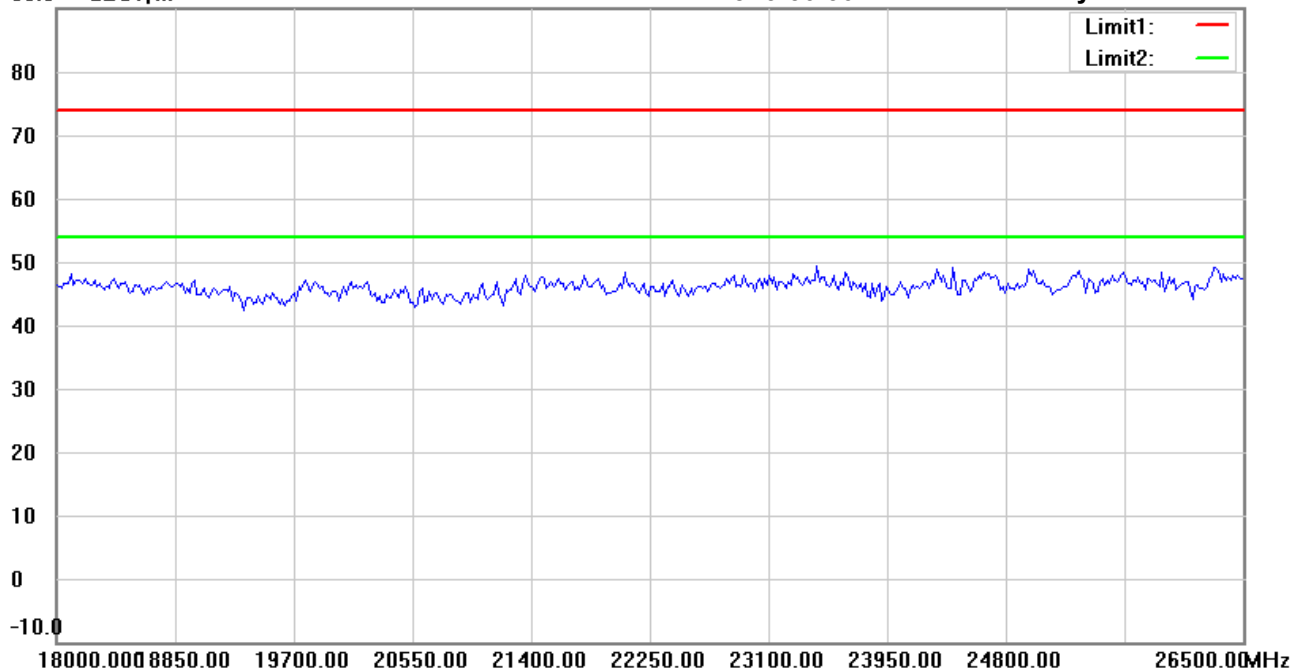
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:56:36 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2441MHz

Note :

Polarization: Horizontal

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#8

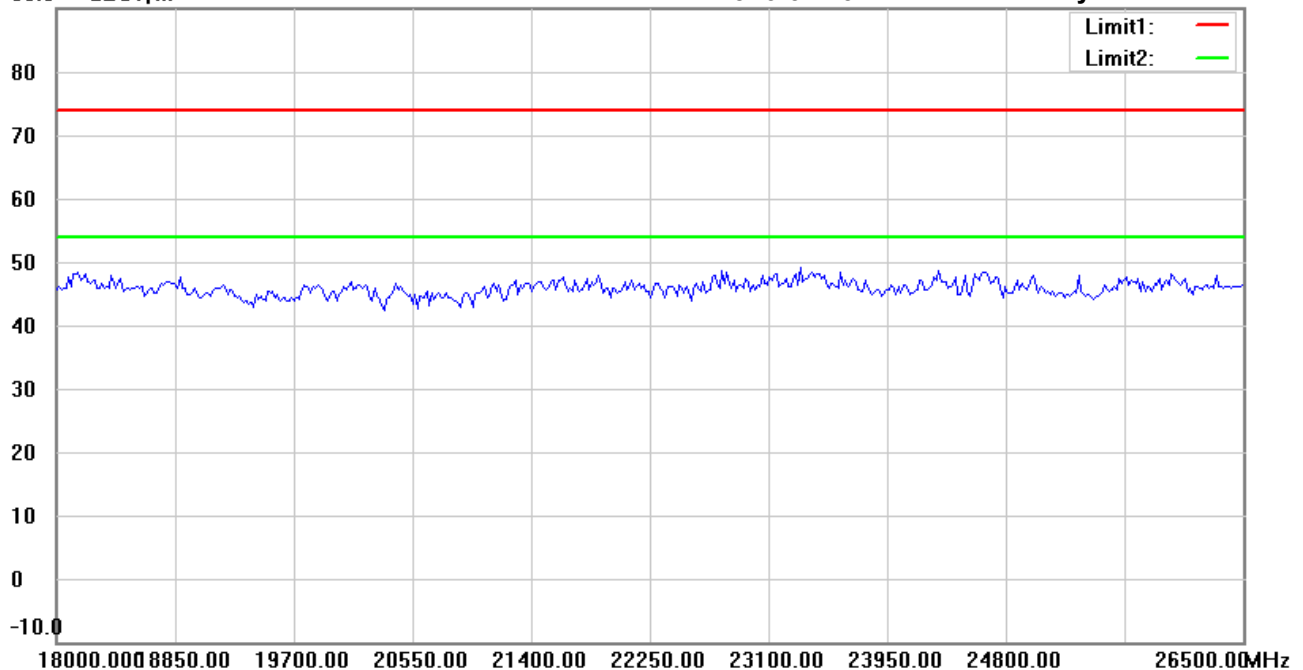
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:57:25 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2441MHz

Note :

Polarization: Vertical

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#1

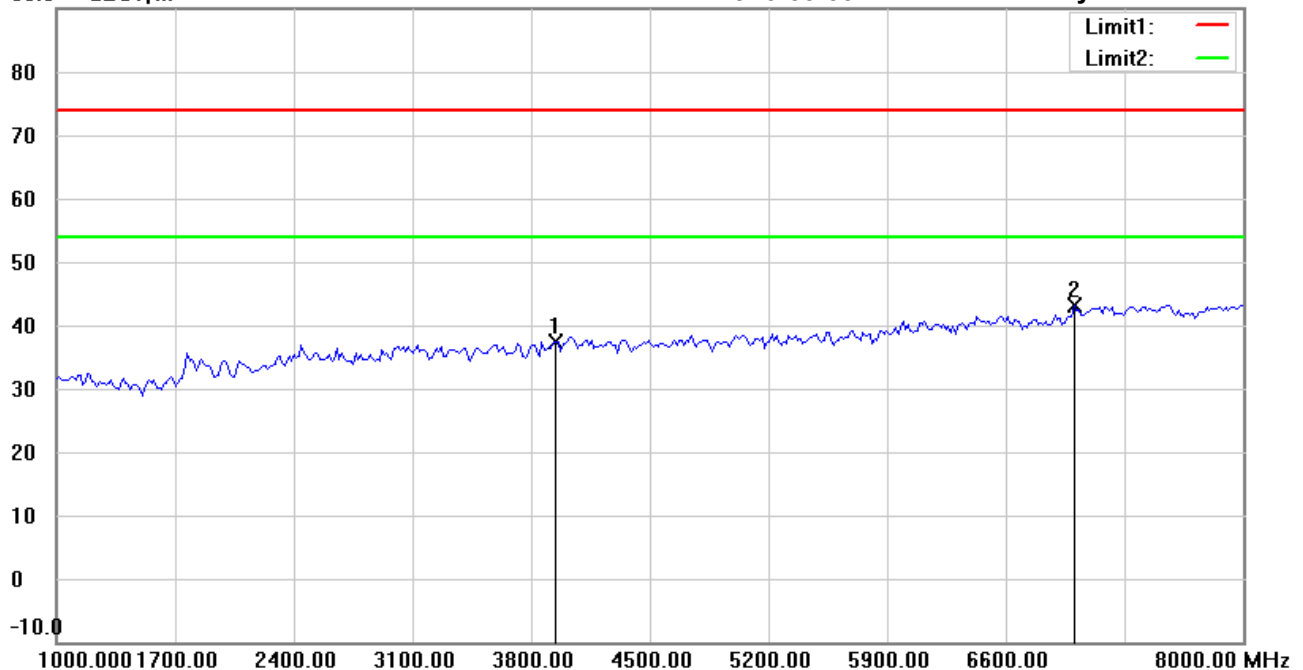
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:58:55 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2480MHz

Note :

Polarization: *Horizontal*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 3931.864        | 39.50          | peak     | -2.02               | 37.48           | 74.00          | 150          | 58             | -36.52      |         |
| *   | 7004.008        | 39.52          | peak     | 3.56                | 43.08           | 74.00          | 150          | 130            | -30.92      |         |

\*:Maximum data    x:Over limit    !:over margin



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# Radiated Emission Measurement

Operator: Allen

File : 3

Data : #5

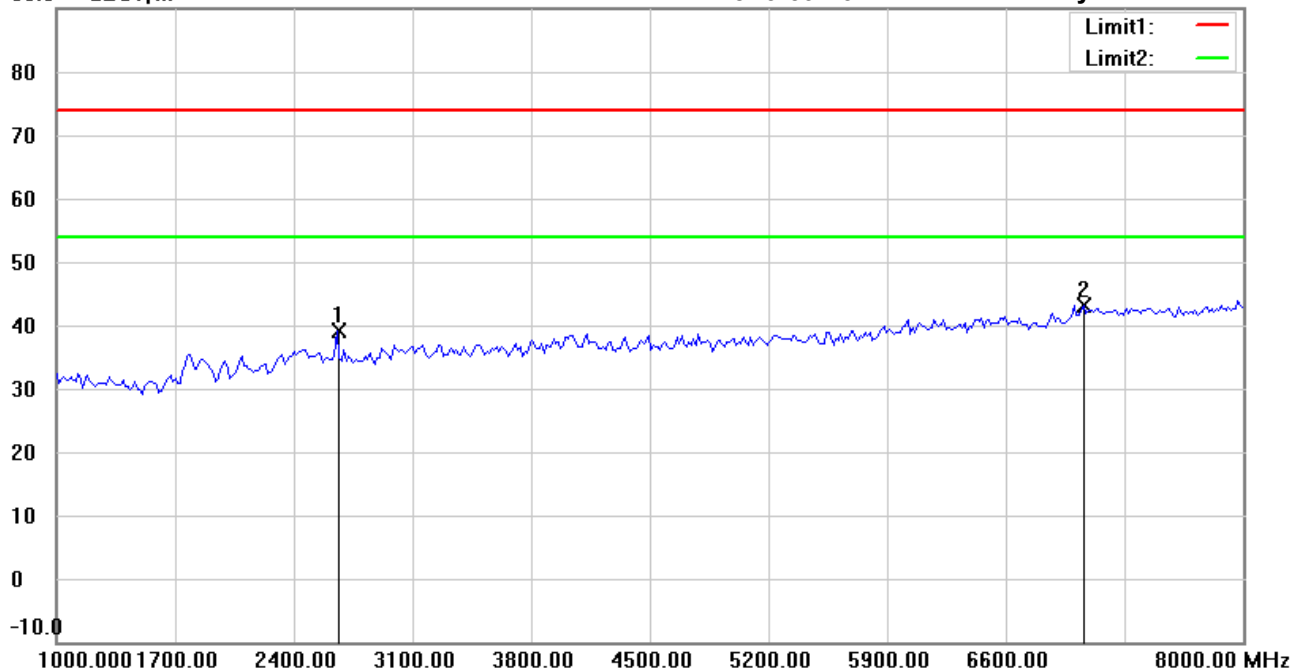
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:59:43 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2480MHz

Note :

Polarization: **Vertical**

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 2655.311        | 44.60          | peak     | -5.48               | 39.12           | 74.00          | 150          | 270            | -34.88      |         |
| *   | 7060.120        | 39.51          | peak     | 3.60                | 43.11           | 74.00          | 150          | 360            | -30.89      |         |

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #2

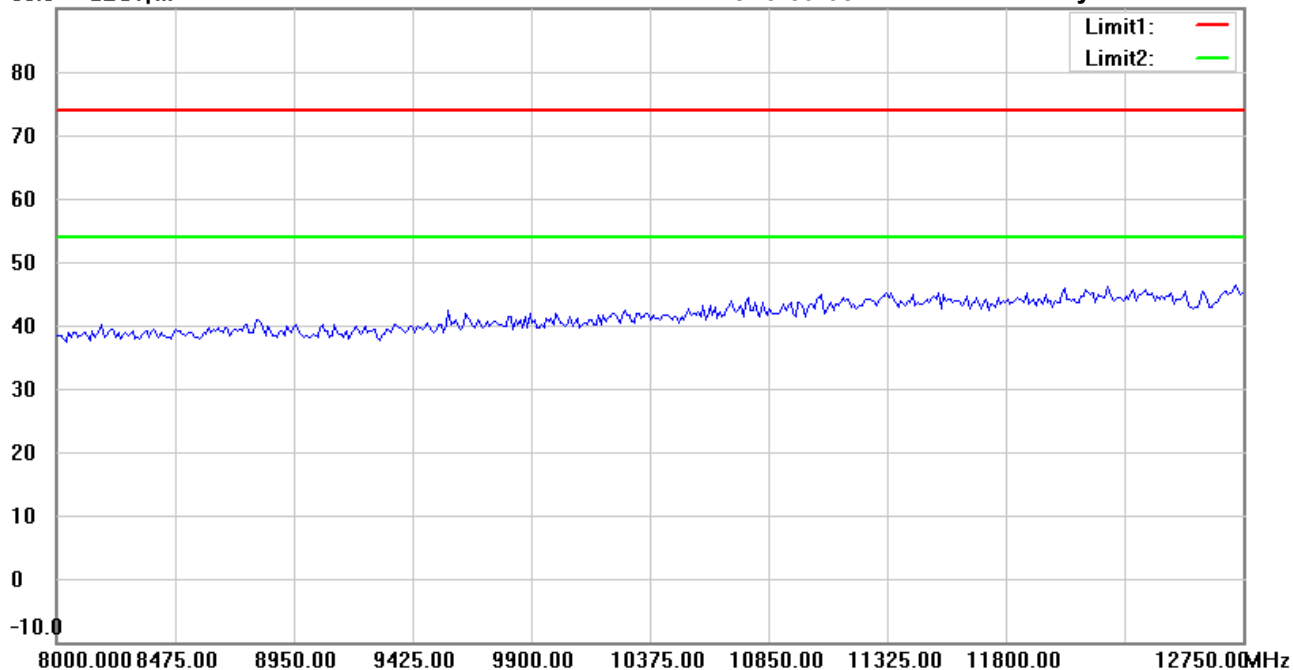
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:59:08 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2480MHz

Note :

Polarization: *Horizontal*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin





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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #6

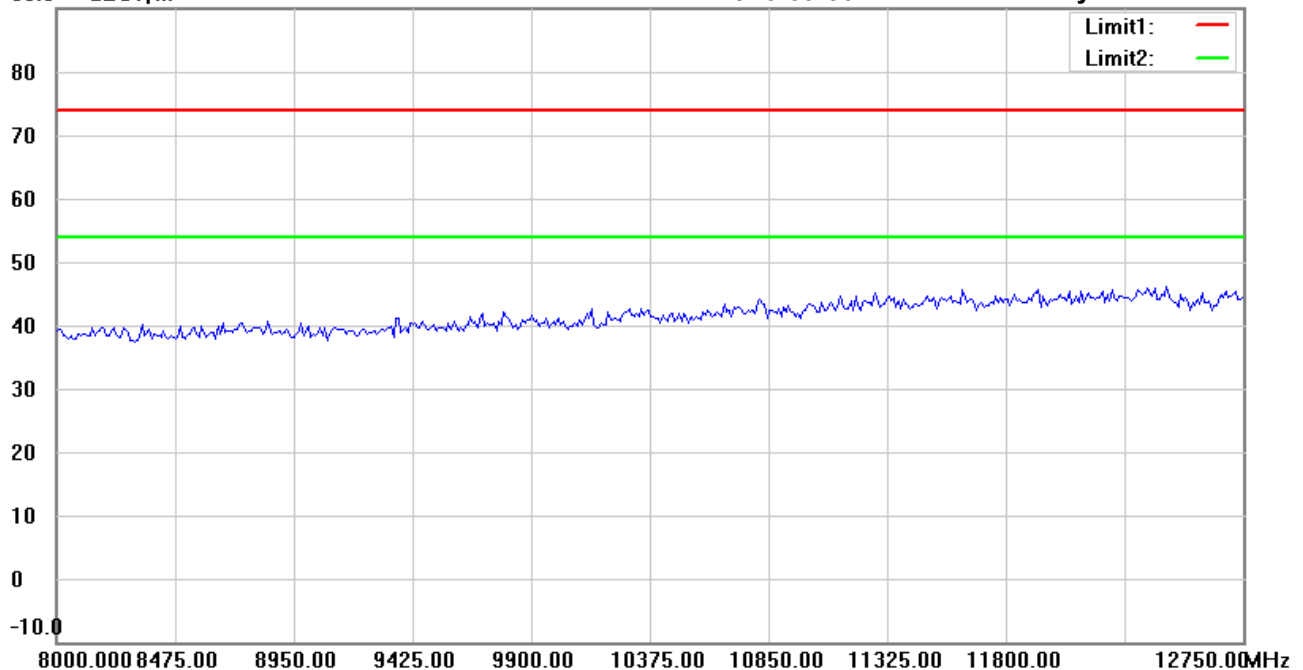
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:59:56 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2480MHz

Note :

Polarization: Vertical

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #3

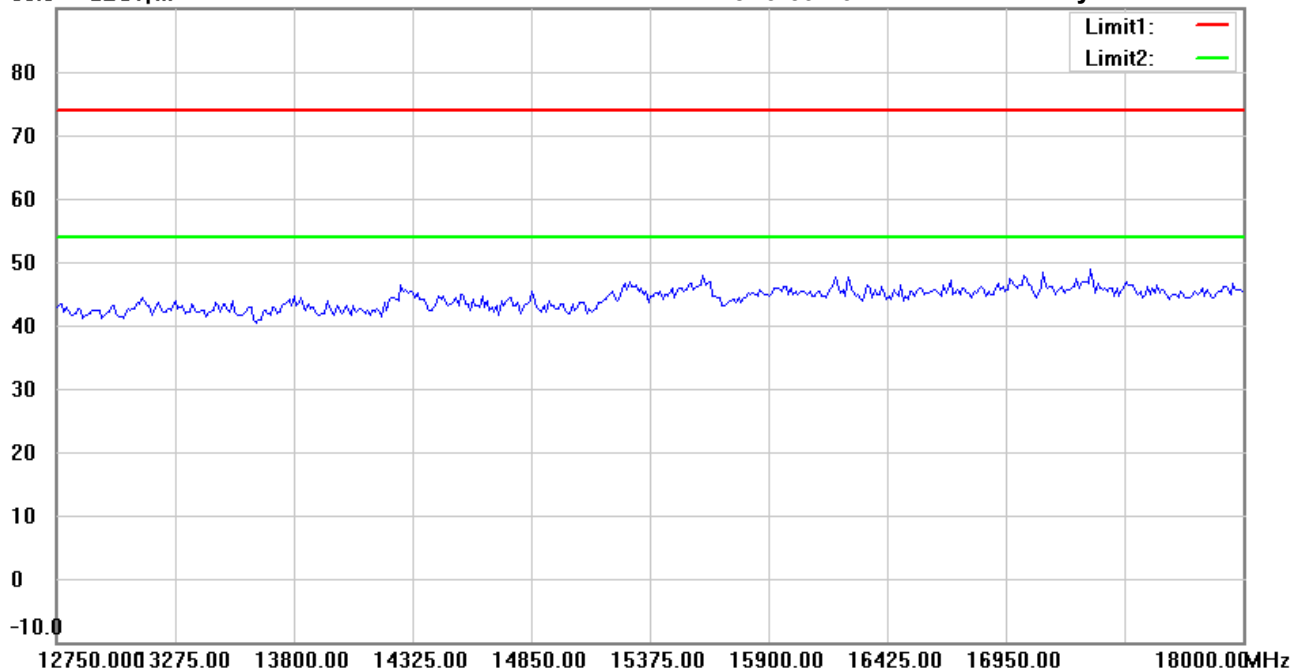
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:59:29 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2480MHz

Note :

Polarization: Horizontal

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #7

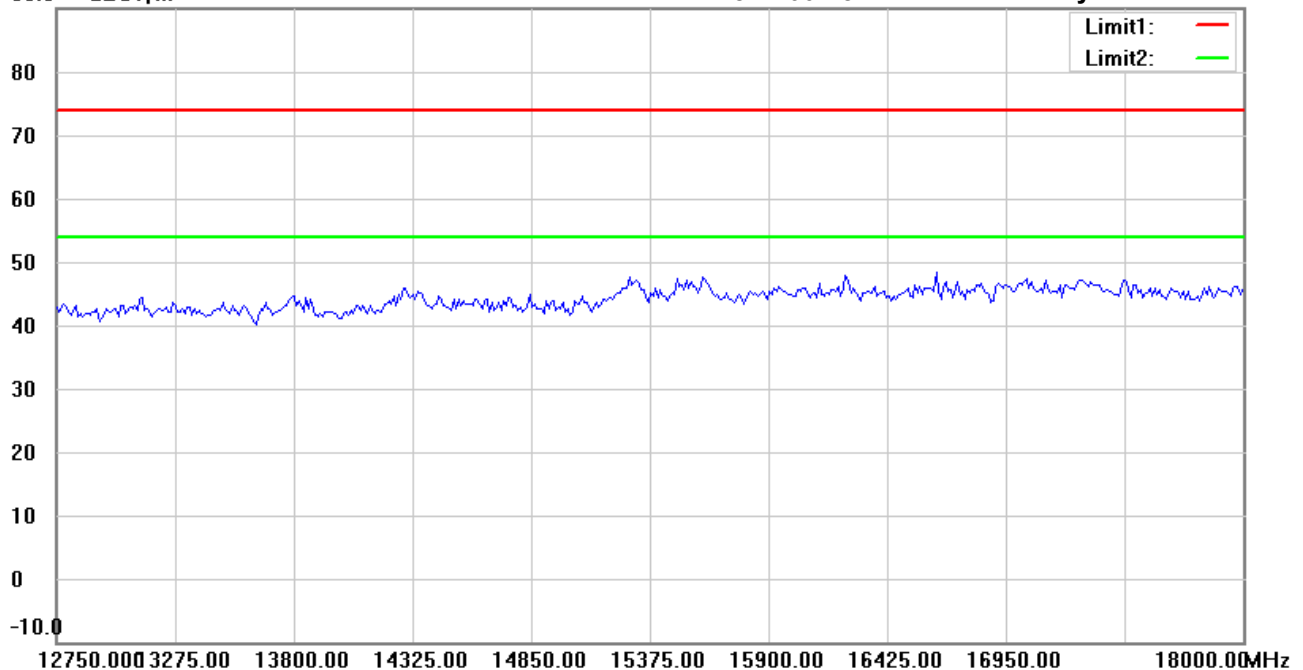
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 4:00:18 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2480MHz

Note :

Polarization: Vertical

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#4

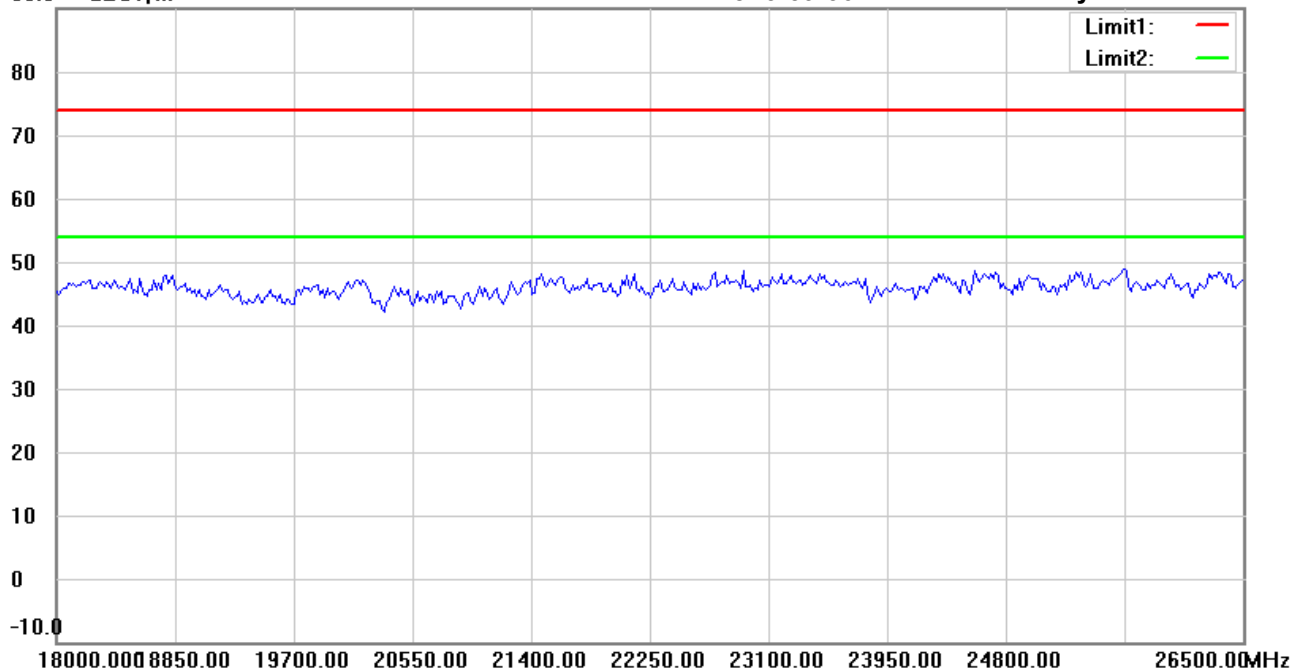
Date: 3/19/2021

Temperature: 24.9 °C

90.0 dBuV/m

Time: 3:59:36 AM

Humidity: 69.5 %



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2480MHz

Note :

Polarization: *Horizontal*

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #8

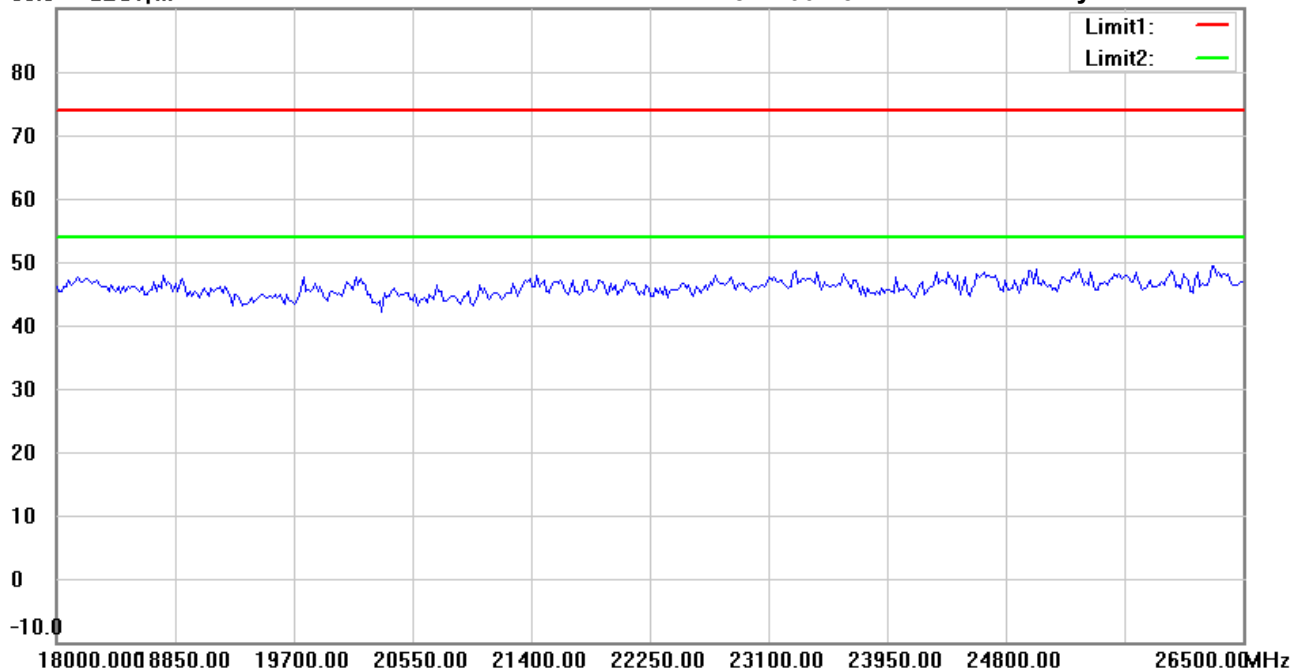
Date: 3/19/2021

Temperature: 24.9 °C

Time: 4:00:25 AM

Humidity: 69.5 %

90.0 dBuV/m



Site : Chamber

Condition : FCC\_part 15 RE-Class B\_Above 1GHz\_PK

EUT : W6M22102-20652

M/N:

Test Mode : RX 2480MHz

Note :

Polarization: Vertical

Power : 8 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

\*:Maximum data    x:Over limit    !:over margin