

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

**for**

**Wireless Module**

**Model No.: 2ALHR012**

**FCC ID: 2ALHR012**

**of**

Applicant: Fieldpiece Instruments, Inc.

Address: 1636 WEST COLLINS AVE ORANGE, CA 92867 USA

Tested and Prepared

by

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

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

**Industry Canada filed test laboratory Reg. No.: 20037, 5107A**



**Report No.: W6M22312-23129-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>1</b> | <b>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      | APPLICATION DETAILS.....                                  | 3        |
| 1.4      | GENERAL INFORMATION OF TEST ITEM.....                     | 4        |
| 1.5      | DUTY CYCLE AND FACTOR.....                                | 4        |
| 1.6      | TEST STANDARDS .....                                      | 5        |
| <b>2</b> | <b>TEST CONFIGURATION.....</b>                            | <b>6</b> |
| 2.1      | TEST ENVIRONMENT .....                                    | 6        |
| 2.2      | MEASUREMENT UNCERTAINTY .....                             | 6        |
| 2.3      | TEST EQUIPMENT LIST.....                                  | 7        |
| <b>3</b> | <b>TEST RESULTS (ENCLOSURE) .....</b>                     | <b>9</b> |
| 3.1      | PEAK OUTPUT POWER (TRANSMITTER).....                      | 10       |
| 3.2      | SPURIOUS EMISSIONS RADIATED – TRANSMITTER OPERATING ..... | 13       |
| 3.3      | EMISSIONS IN NONRESTRICTED FREQUENCY BANDS.....           | 15       |
| 3.4      | MINIMUM 6 DB BANDWIDTH .....                              | 17       |
| 3.5      | PEAK POWER SPECTRAL DENSITY .....                         | 20       |
| 3.6      | POWER LINE CONDUCTED EMISSION .....                       | 23       |

Appendix: Diagrams



Registration number: W6M22312-23129-C-1

FCC ID: 2ALHR012

## **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.

Laboratory disclaimer-

1. The test results of this test report relate exclusively to the item tested as specified in 1.5.
2. The test report may only be reproduced or published in full.
3. Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services(Taiwan) Co., Ltd.
4. Antenna gain is provided by applicant and laboratory issue relevant data and results.

### **Tester:**

March 01, 2024

Sora Kuo

Date

WTS-Lab.

Name

Signature

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

March 01, 2024

Kevin Wang

Date

WTS

Name

Signature



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

Registration number: W6M22312-23129-C-1

FCC ID: 2ALHR012

## **1.2 Testing laboratory**

### **1.2.1 Location**

10m 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

Worldwide Testing Services (Taiwan) Co., Ltd.

6F., No. 58, Ln. 188, Ruiguang Rd., Neihu Dist.,  
Taipei City 114, Taiwan (R.O.C.)

Tel: 886-2-6606-8877

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

Accredited testing laboratory

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

Industry Canada filed test laboratory Reg. No.: 20037, 5107A

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

Name: ./.

Accredited no.: ./.

Street: ./.

Town: ./.

Country: ./.

## **1.3 Application details**

### **Approval holder**

Name: Fieldpiece Instruments, Inc.

Street: 1636 WEST COLLINS AVE ORANGE,

Town: CA 92867

Country: USA

### **Manufacturer: (if applicable)**

Name: CHY FIREMATE CO., LTD.

Street: No.3 Sheng-Li 1st Street, Xintian Village, Rende District,

Town: Tainan City,

Country: Taiwan R.O.C.



Registration number: W6M22312-23129-C-1

FCC ID: 2ALHR012

Date of receipt of test item: December 11, 2023

Date of test: from December 12, 2023 to December 18, 2023

## **1.4 General information of Test item**

Type of test item: Wireless Module

Model no.: 2ALHR012

Multi-listing model no.: ./.

Brand name: Fieldpiece

Power supply: 3.6Vd.c.

Technical data

| Mode | Channel          | Conducted Power (dBm) |
|------|------------------|-----------------------|
| BLE  | Ch 0 : 2402 MHz  | 5.54                  |
|      | Ch 19 : 2440 MHz | 5.45                  |
|      | Ch 39 : 2480 MHz | 5.59                  |

Type of antenna: PCB antenna

Antenna gain: -0.38 dBi

Operation modes: Duplex

Modulation type: GFSK

Sample no.: #03

## **1.5 Duty cycle and factor**

The duty factor is computed as  $[10 \log (1 / D)]$ , where D is the duty cycle.

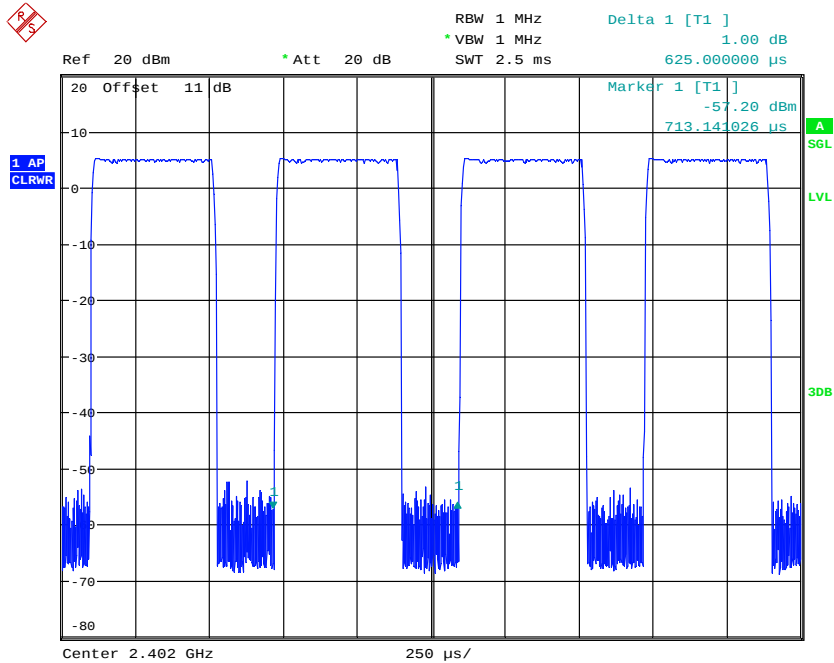
| Mode | T <sub>on</sub><br>(ms) | T <sub>on</sub> +T <sub>off</sub><br>(ms) | Duty cycle<br>(%) | 1/T - VBW<br>(kHz) |
|------|-------------------------|-------------------------------------------|-------------------|--------------------|
| BLE  | 0.4407                  | 0.625                                     | 70.51%            | 2.27               |



Registration number: W6M22312-23129-C-1

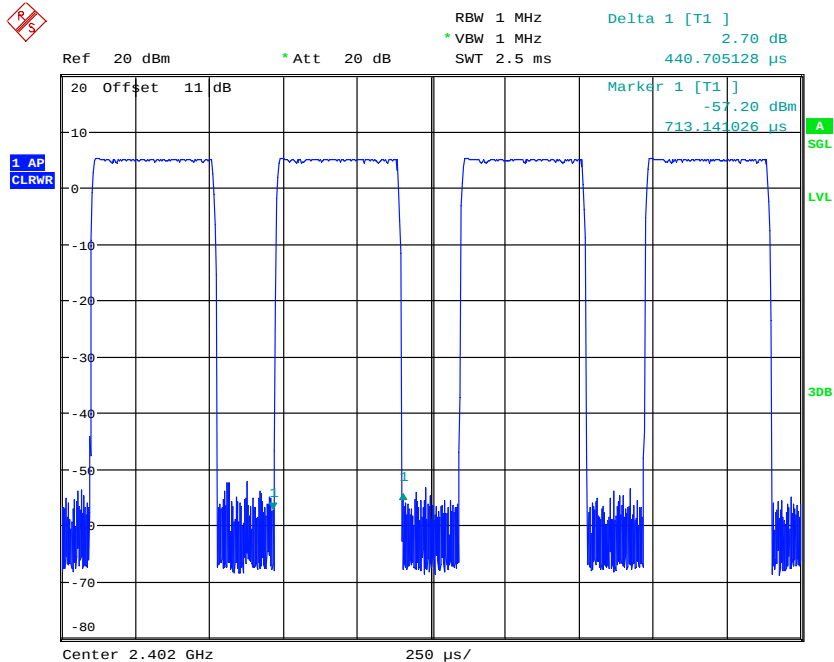
FCC ID: 2ALHR012

Duty cycle plot



DUTY BLE 1M

Date: 12.DEC.2023 12:29:28



DUTY BLE 1M

Date: 12.DEC.2023 12:29:34

## 1.6 Test standards

47 CFR PART 15 SUBPART C § 15.247 (2021-10)



Registration number: W6M22312-23129-C-1

FCC ID: 2ALHR012

## **2 Test configuration**

### **2.1 Test environment**

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Extreme conditions parameters: ./.

### **2.2 Measurement uncertainty**

| Test item Name                                                                                                     | Uncertainty                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Estimation Result of Uncertainty of Conducted Emission<br>(Power Line Conducted Emission)                          | Expanded Uncertainty :<br>AMN : 0.94 dB<br>Voltage probe : 0.96 dB<br>Include Pulse Limiter : 1.52 dB                  |
| Estimation Result of Uncertainty of Radiated Emission(3M)<br>(Spurious Emissions radiated – Transmitter operating) | Expanded Uncertainty :<br>0.009-30 MHz : 1.92 dB<br>30-1000 MHz : 3.96 dB<br>1-18 GHz : 2.46 dB<br>18-40 GHz : 2.44 dB |
| Estimation Result of Uncertainty of Bandwidth Measurement<br>(Minimum 6 dB Bandwidth)                              | Expanded Uncertainty : 0.45 kHz                                                                                        |
| Estimation Result of Uncertainty of Conducted Output Power<br>Measurement (Peak Output Power (transmitter))        | Expanded Uncertainty : 1.48 dB                                                                                         |
| Estimation Result of Uncertainty of Power Density<br>Measurement (Peak Power Spectral Density)                     | Expanded Uncertainty : 1.48 dB                                                                                         |
| Estimation Result of Uncertainty of Band Edge Measurement<br>(Emissions in nonrestricted frequency bands)          | Expanded Uncertainty : 0.67 dBc                                                                                        |

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



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

Registration number: W6M22312-23129-C-1

FCC ID: 2ALHR012

## 2.3 Test Equipment List

### RF Conducted

| No.             | Test equipment         | Type                     | Serial No.  | Manufacturer | Cal. Date       | Next Cal. Date |
|-----------------|------------------------|--------------------------|-------------|--------------|-----------------|----------------|
| ETSTW-CE 009    | TEMP.&HUMIDITY CHAMBER | GTH-225-40-1P-U          | MAA0305-009 | GIANT FORCE  | 2023/7/24       | 2024/7/23      |
| ETSTW-RE 050    | Attenuator 10dB        | 50HF-010-1               | None        | JFW          | 2023/2/17       | 2024/2/16      |
| ETSTW-RE 051    | Attenuator 6dB         | 50HF-006-1               | None        | JFW          | 2023/2/17       | 2024/2/16      |
| ETSTW-RE 053    | Attenuator 3dB         | 50HF-003-1               | None        | JFW          | 2023/2/17       | 2024/2/16      |
| ETSTW-RE 055    | SPECTRUM ANALYZER      | FSU 26                   | 200074      | R&S          | 2023/3/22       | 2024/3/21      |
| ETSTW-RE 060    | Attenuator 30dB        | 5015-30                  | F651012z-01 | ATM          | 2023/2/17       | 2024/2/16      |
| ETSTW-RE 099    | DC Block               | 50DB-007-1               | None        | JFW          | 2023/2/17       | 2024/2/16      |
| ETSTW-RE 112    | AC POWER SOURCE        | TFC-1005                 | T-0A023536  | T-Power      | Function test   |                |
| ETSTW-RE 127    | RF Switch Box          | RFS-01                   | None        | WTS          | 2023/2/17       | 2024/2/16      |
| ETSTW-RE 153    | Signal Analyzer        | FSV40                    | 101929      | R&S          | 2023/9/20       | 2024/9/19      |
| ETSTW-GSM 023   | Power Divider          | 4901.19.A                | None        | SUHNER       | 2023/8/28       | 2024/8/27      |
| ETSTW-Cable 027 | Microwave Cable        | SUCOFLEX 104             | 279083      | HUBER+SUHNER | 2023/4/27       | 2024/4/26      |
| ETSTW-Cable 030 | Microwave Cable        | SUCOFLEX 104 (S Cable 9) | 279067      | HUBER+SUHNER | 2023/02/17      | 2024/2/16      |
| ETSTW-Cable 045 | Microwave Cable        | SUCOFLEX 104             | 325536      | HUBER+SUHNER | 2023/10/20      | 2024/10/19     |
| ETSTW-Cable 058 | Microwave Cable        | SUCOFLEX 104             | none        | HUBER+SUHNER | 2023/5/26       | 2024/5/25      |
| WTSTW-SW 008    | Signal studio          | Agilent                  | None        | AUDIX        | Version 2.0.0.1 |                |

### Radiated Emission

| No.             | Test equipment                   | Type                  | Serial No.  | Manufacturer       | Cal. Date  | Next Cal. Date |
|-----------------|----------------------------------|-----------------------|-------------|--------------------|------------|----------------|
| ETSTW-RE 004    | EMI TEST RECEIVER                | ESI 40                | 832427/004  | R&S                | 2023/10/19 | 2024/10/18     |
| ETSTW-RE 018    | MICROWAVE HORN ANTENNA           | AT4560                | 27212       | AR                 | 2023/7/21  | 2024/7/20      |
| ETSTW-RE 019    | MICROWAVE HORN ANTENNA           | 22240-25              | 121074      | FM                 | 2023/6/9   | 2024/6/8       |
| ETSTW-RE 027    | Passive Loop Antenna             | 6512                  | 00034563    | ETS-Lindgren       | 2023/6/28  | 2024/6/27      |
| ETSTW-RE 030    | Double-Ridged Guide Horn Antenna | 3117                  | 00035224    | ETS-Lindgren       | 2023/5/5   | 2024/5/4       |
| ETSTW-RE 062    | Amplifier Module                 | CHC 2                 | None        | KMIC               | 2023/2/20  | 2024/2/19      |
| ETSTW-RE 088    | SOLID STATE AMPLIFIER            | KMA180265A01          | 99057       | KMIC               | 2023/9/15  | 2024/9/14      |
| ETSTW-RE 115    | 2.4GHz Notch Filter              | N0124411              | 473874      | MICROWAVE CIRCUITS | 2023/1/4   | 2024/1/3       |
| ETSTW-RE 142    | Amplifier                        | 8447D                 | 2805A03378  | Agilent            | 2023/2/20  | 2024/2/19      |
| ETSTW-RE 152    | Bi-log Hybrid Antenna            | MCTD 2786B            | BLB20J04029 | ETC                | 2023/3/21  | 2024/3/20      |
| ETSTW-Cable 028 | Microwave Cable                  | FA147A0015M2020       | 30064-2     | UTIFLEX            | 2023/9/15  | 2024/9/14      |
| ETSTW-Cable 029 | Microwave Cable                  | FA147A0015M2020       | 30064-3     | UTIFLEX            | 2023/9/15  | 2024/9/14      |
| ETSTW-Cable 076 | SMA type cable (1m)              | N/A                   | 812652/4    | HUBER+SUHNER       | 2023/2/20  | 2024/2/19      |
| ETSTW-Cable 064 | Microwave Cable                  | SUCOFLEX 104          | MY28891     | HUBER+SUHNER       | 2023/2/20  | 2024/2/19      |
| ETSTW-Cable 071 | N TYPE CABLE                     | EMCCFD400-NM-NM-25000 | 170239      | EMCI               | 2023/10/23 | 2024/10/22     |



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

Registration number: W6M22312-23129-C-1

FCC ID: 2ALHR012

|                 |                                     |              |            |              |                                       |            |
|-----------------|-------------------------------------|--------------|------------|--------------|---------------------------------------|------------|
| ETSTW-Cable 072 | SMA type cable (8m)                 | SUCOFLEX 104 | 805800/4   | HUBER+SUHNER | 2023/2/20                             | 2024/2/19  |
| ETSTW-Cable 074 | SMA type cable (2m)                 | SUCOFLEX 104 | 802563/4   | HUBER+SUHNER | 2023/2/20                             | 2024/2/19  |
| WTSTW-SW 002    | EMI TEST SOFTWARE                   | EZ_EMG       | None       | Farad        | Version ETS-03A1<br>Version EMEC-3A1+ |            |
| ETSTW-TH 002    | Thermohygrometer                    | 608-H1       | 45204317   | Testo        | 2023/7/21                             | 2024/7/20  |
| ETSTW-TH 003    | Wireless weather station            | GAIA         | N/A        | TFA          | 2023/10/20                            | 2024/10/19 |
| ETSTW-RE 064    | Bluetooth Test Set                  | MT8852B-042  | 6K00005709 | Anritsu      | Function Test                         |            |
| ETSTW-RE 069    | Double-Ridged Guide<br>Horn Antenna | 3117         | 00069377   | ETS-Lindgren | Function Test                         |            |

## **AC Conducted**

| No.             | Test equipment                       | Type         | Serial No. | Manufacturer | Cal. Date                             | Next Cal. Date |
|-----------------|--------------------------------------|--------------|------------|--------------|---------------------------------------|----------------|
| ETSTW-CE 001    | EMI TEST RECEIVER                    | ESHS10       | 842121/013 | R&S          | 2023/6/12                             | 2024/6/11      |
| ETSTW-CE 003    | AC POWER SOURCE                      | APS-9102     | D161137    | GW           | Function Test                         |                |
| ETSTW-CE 016    | TWO-LINE V-<br>NETWORK               | ENV216       | 100050     | R&S          | 2023/10/26                            | 2024/10/25     |
| ETSTW-RE 045    | ESA-E SERIES<br>SPECTRUM<br>ANALYZER | E4404B       | MY45111242 | Agilent      | Pre-test Use                          |                |
| ETSTW-Cable 045 | Microwave Cable                      | SUCOFLEX 104 | 325536     | HUBER+SUHNER | 2023/10/20                            | 2024/10/19     |
| WTSTW-SW 002    | EMI TEST SOFTWARE                    | EZ_EMG       | None       | Farad        | Version ETS-03A1<br>Version EMEC-3A1+ |                |



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

Registration number: W6M22312-23129-C-1

FCC ID: 2ALHR012

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

| TEST CASE                                              | Para. Number                 | Required                            | Test passed                         | Test failed              |
|--------------------------------------------------------|------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| Peak Output Power                                      | 15.247(b)(3)                 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Spurious Emissions radiated –<br>Transmitter operating | 15.247(d),<br>15.205, 15.209 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Emissions in nonrestricted frequency bands             | 15.247(d)                    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Minimum 6 dB Bandwidth                                 | 15.247(a)(2)                 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Peak Power Spectral Density                            | 15.247(e)                    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Power Line Conducted Emission                          | 15.207(a)                    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

The following is intentionally left blank.



Registration number: W6M22312-23129-C-1

FCC ID: 2ALHR012

## **3.1 Peak Output Power (transmitter)**

### **3.1.1 Applicable Standard**

FCC Rule: 15.247(b)(3)

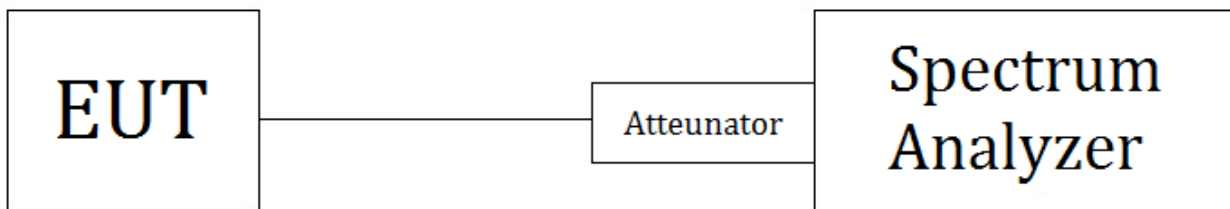
For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

### **3.1.2 Test procedure**

Following Subclause 11.9.1.1 of ANSI C63.10

1. Set the RBW  $\geq$  DTS bandwidth , VBW  $\geq$   $[3 \times \text{RBW}]$  , span  $\geq$   $[3 \times \text{RBW}]$ .
2. Sweep time = auto couple , Detector = peak , Trace mode = max hold.
3. Allow trace to fully stabilize and determine the peak amplitude level.

### **3.1.3 Test Setup**



### **3.1.4 Limits**

| Frequency<br>(MHz) | Power<br>(dBm) |
|--------------------|----------------|
| 902 - 928          | 30             |
| 2400 – 2483.5      | 30             |
| 5725 – 5850        | 30             |

In case of employing transmitter antennas having antenna gain  $> 6$  dBi and using fixed point-to-point operation consider §15.247 (b)(4)



Registration number: W6M22312-23129-C-1

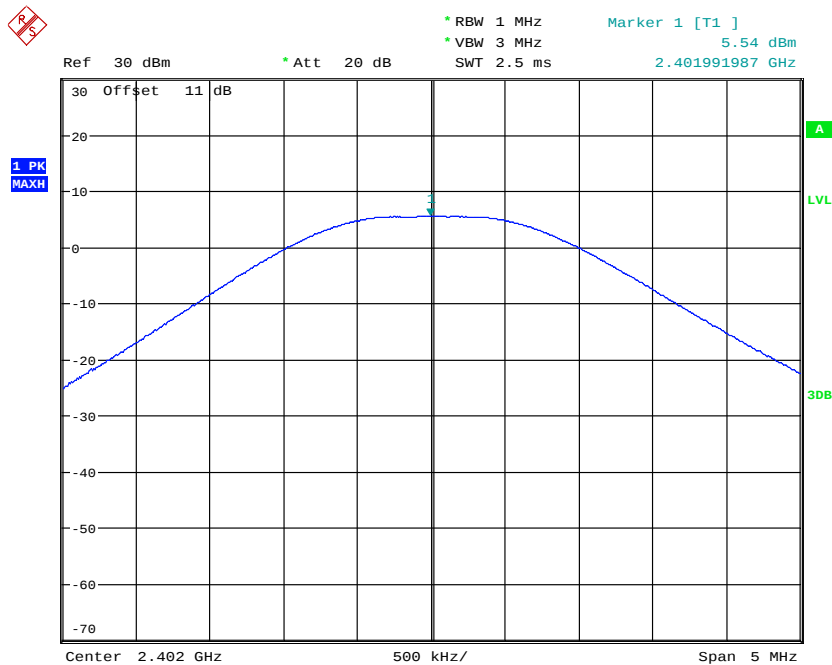
FCC ID: 2ALHR012

## 3.1.5 Test Environmental Conditions

Test date: 2023-12-12 Temperature: 23.7°C Humidity: 59.5% Tester: Sora

## 3.1.6 Test results

| Band   | Mode | Channel          | Power (dBm) | Limit (dBm) |
|--------|------|------------------|-------------|-------------|
| 2.4GHz | BLE  | Ch 0 : 2402 MHz  | 5.54        | 30          |
|        |      | Ch 19 : 2440 MHz | 5.45        | 30          |
|        |      | Ch 39 : 2480 MHz | 5.59        | 30          |

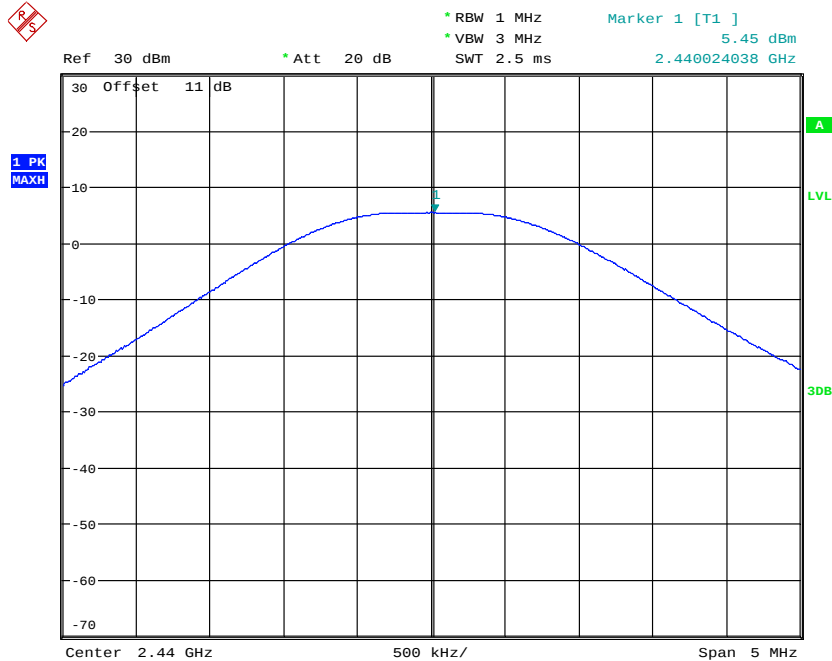


MAX OUTPUT POWER BLE 1M CH00

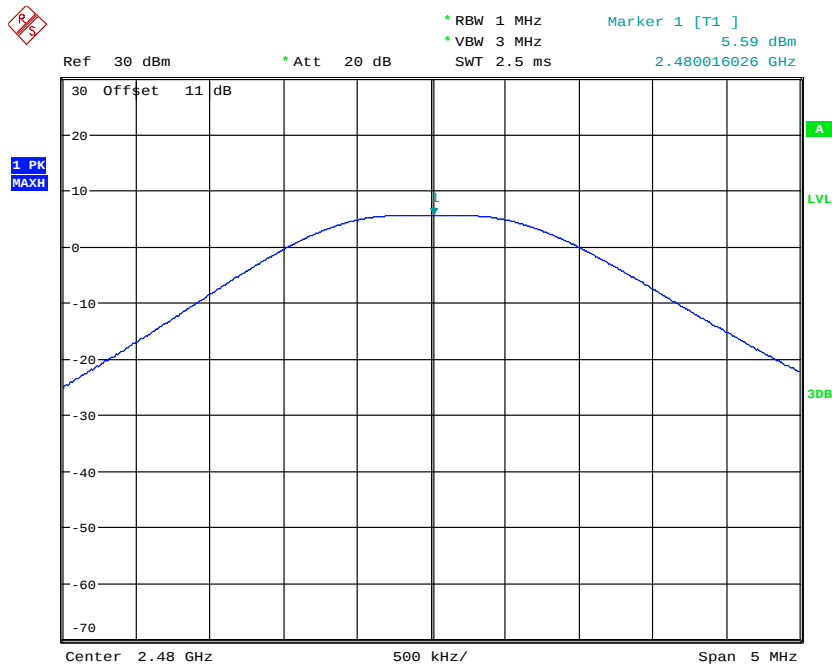
Date: 12.DEC.2023 11:50:14



Registration number: W6M22312-23129-C-1  
FCC ID: 2ALHR012



MAX OUTPUT POWER BLE 1M CH19  
Date: 12.DEC.2023 11:51:04



MAX OUTPUT POWER BLE 1M CH39  
Date: 12.DEC.2023 11:51:46

Test equipment used: Please see test equipment utilized (RF Conducted).



Registration number: W6M22312-23129-C-1

FCC ID: 2ALHR012

## **3.2 Spurious Emissions radiated – Transmitter operating**

### **3.2.1 Applicable Standard**

FCC Rules: 15.247 (d), 15.205, 15.209

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).

### **3.2.2 Test procedure**

1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
2. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m height to find out the highest emissions.
3. Receiver or Spectrum analyzer configuration
  - (a)120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
  - (b)RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
  - (c)RBW=1MHz, VBW=10Hz(1/T) and Peak detector is for average measured value of radiated emission above 1GHz.

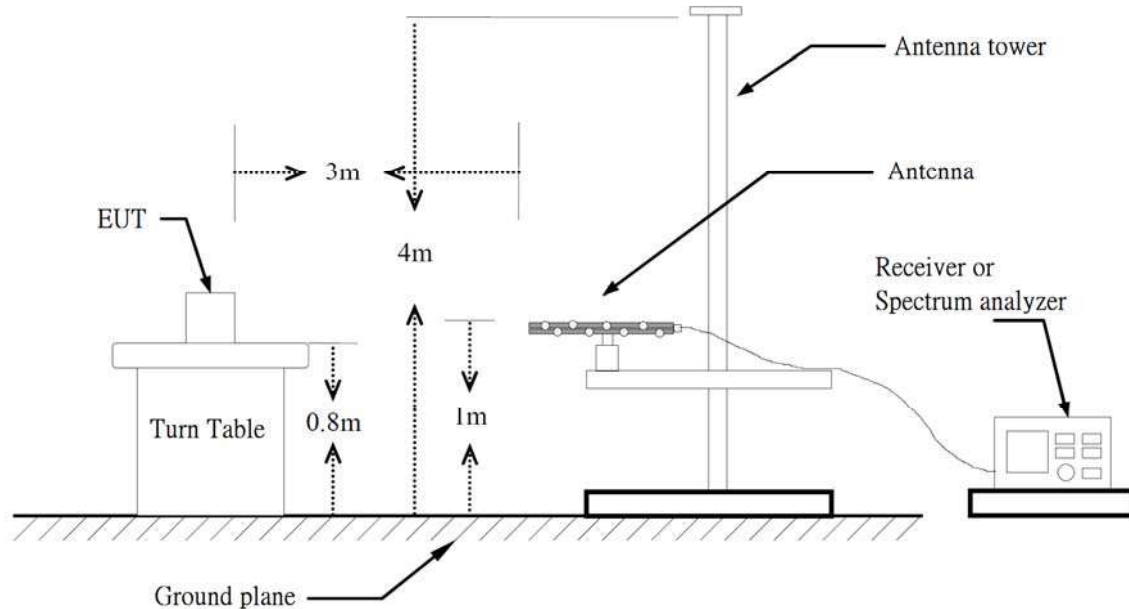
### **3.2.3 Limits**

| Frequency<br>(MHz) | Field strength<br>(uV/m) | Measurement distance<br>(meters) |
|--------------------|--------------------------|----------------------------------|
| 0.009-0.490        | 2400/F(kHz)              | 300                              |
| 0.490-1.705        | 24000/F(kHz)             | 30                               |
| 1.705-30.0         | 30                       | 30                               |
| 30-88              | 100                      | 3                                |
| 88-216             | 150                      | 3                                |
| 216-960            | 200                      | 3                                |
| Above 960          | 500                      | 3                                |

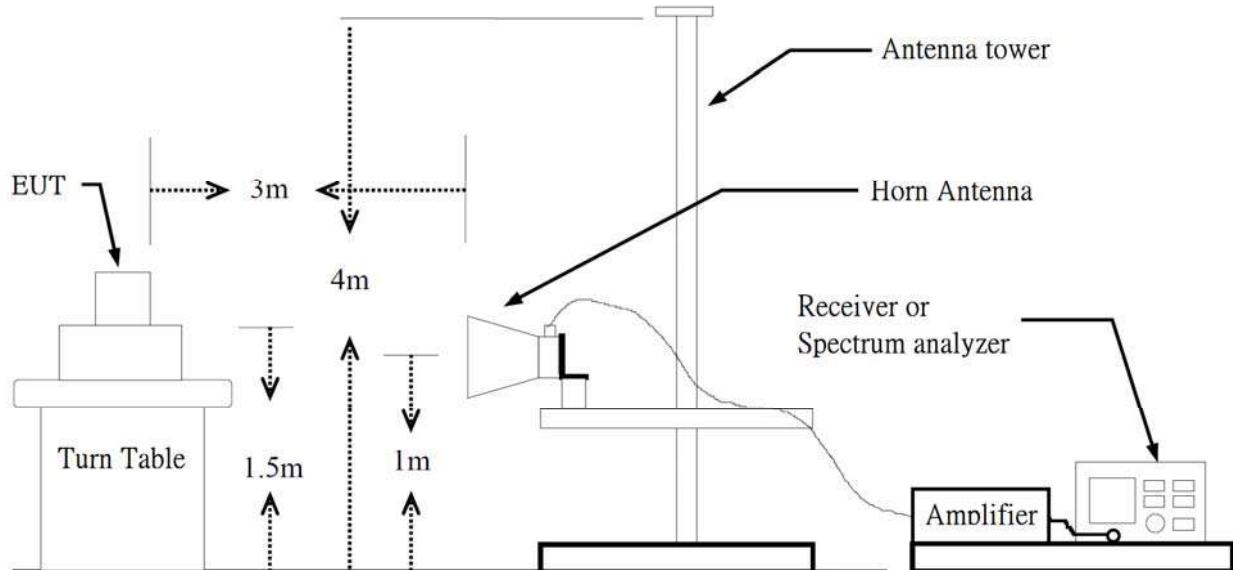
Registration number: W6M22312-23129-C-1

FCC ID: 2ALHR012

## 3.2.4 Test Setup



**Below 1 GHz**



**Above 1 GHz**

## 3.2.5 Test results (With Environmental Conditions)

Explanation: See attached diagrams in Appendix.



Registration number: W6M22312-23129-C-1

FCC ID: 2ALHR012

## **3.3 Emissions in nonrestricted frequency bands**

### **3.3.1 Applicable Standard**

FCC Rules: 15.247(d)

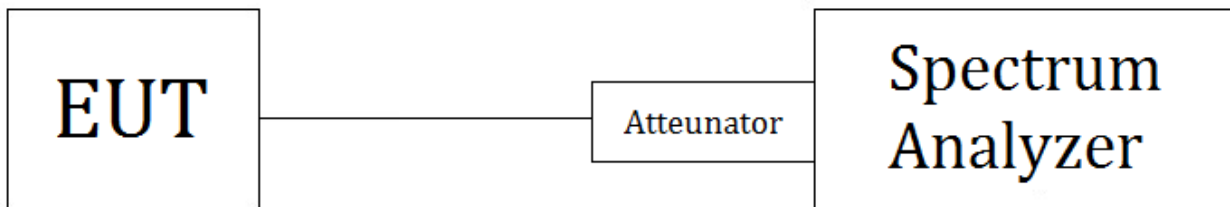
In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based 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.

### **3.3.2 Test procedure**

1. Set RBW = 100 kHz , VBW  $\geq [3 \times \text{RBW}]$
2. Set Detector = peak , Sweep time = auto , Trace mode = max hold, and allow sweep to continue until the trace stabilizes
3. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

### **3.3.3 Test setup**



### **3.3.4 Limits**

See 3.3.1

### **3.3.5 Test Environmental Conditions**

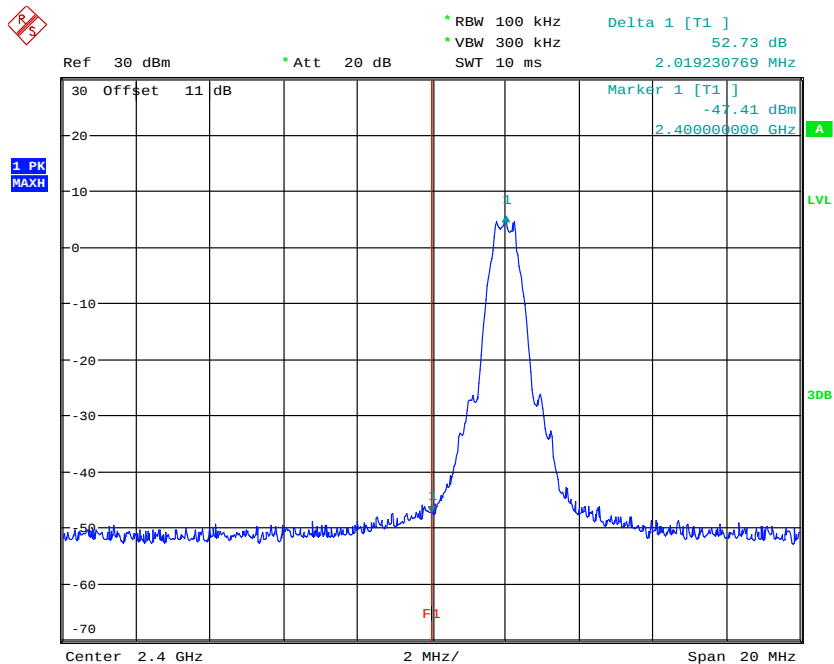
Test date: 2023-12-12 Temperature: 23.7°C Humidity: 59.5% Tester: Sora



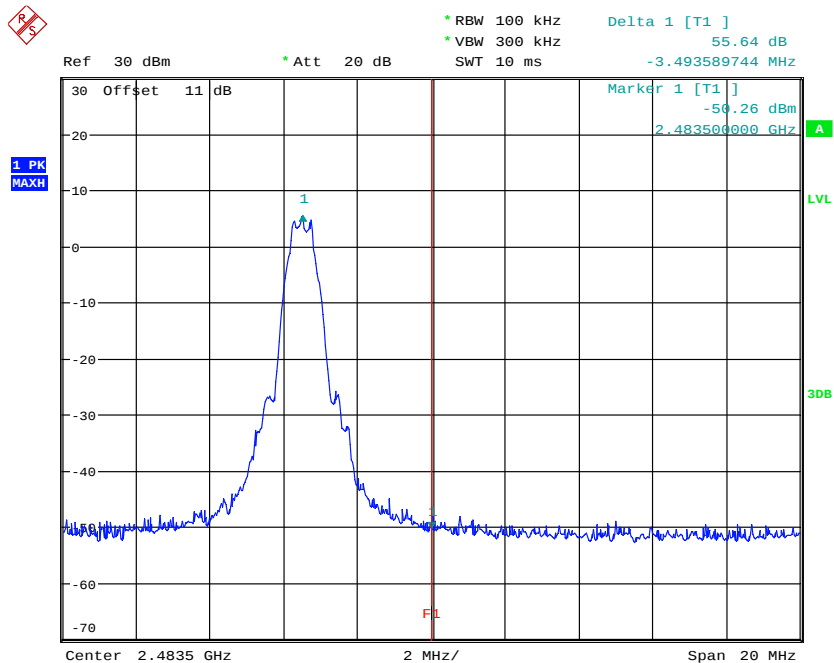
Registration number: W6M22312-23129-C-1

FCC ID: 2ALHR012

### 3.3.6 Test results



BANDEDGE BLE 1M CH00  
Date: 12.DEC.2023 11:50:42



BANDEDGE BLE 1M CH39  
Date: 12.DEC.2023 11:52:14

Test equipment used: Please see test equipment utilized (RF Conducted).



Registration number: W6M22312-23129-C-1

FCC ID: 2ALHR012

## **3.4 Minimum 6 dB Bandwidth**

### **3.4.1 Applicable Standard**

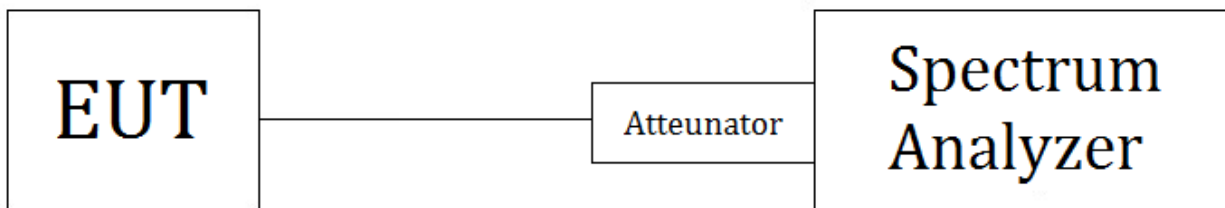
FCC Rules: 15.247(a)(2)

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

### **3.4.2 Test procedure**

1. Set RBW = 100 kHz , Set the VBW  $\geq [3 \times \text{RBW}]$ .
2. Set Detector = peak , Trace mode = max hold , Sweep = auto couple and allow the trace to stabilize.
3. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### **3.4.3 Test setup**



### **3.4.4 Limits**

| Frequency Range (MHz) | Limits (kHz) |
|-----------------------|--------------|
| 902-928               | $\geq 500$   |
| 2400-2483.5           |              |
| 5725-5850             |              |

### **3.4.5 Test Environmental Conditions**

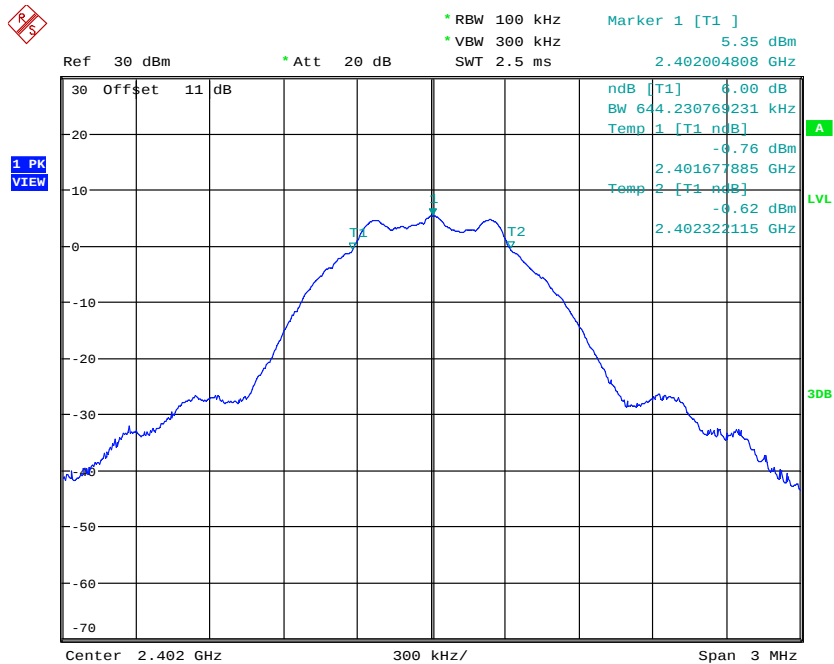
Test date: 2023-12-12 Temperature: 23.7°C Humidity: 59.5% Tester: Sora



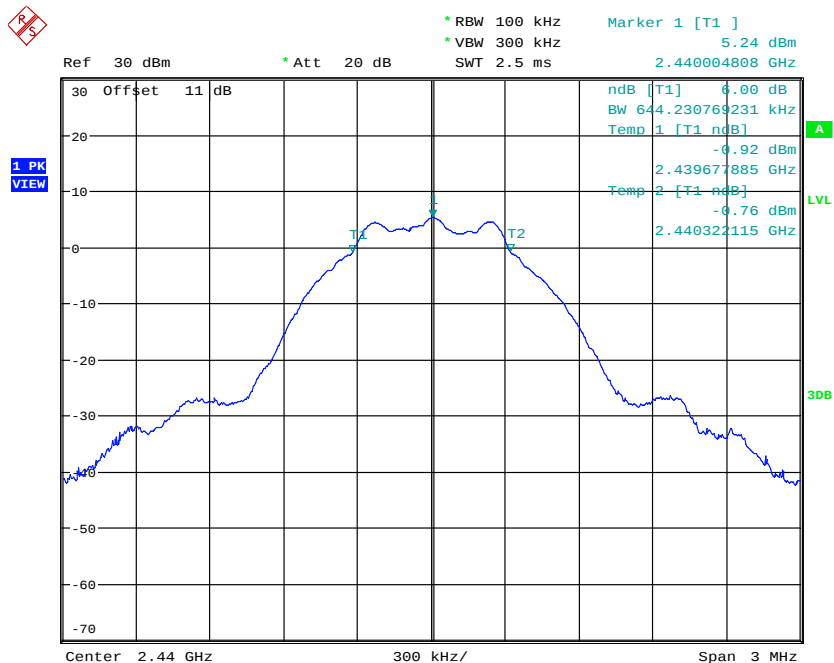
Registration number: W6M22312-23129-C-1

FCC ID: 2ALHR012

## 3.4.6 Test results



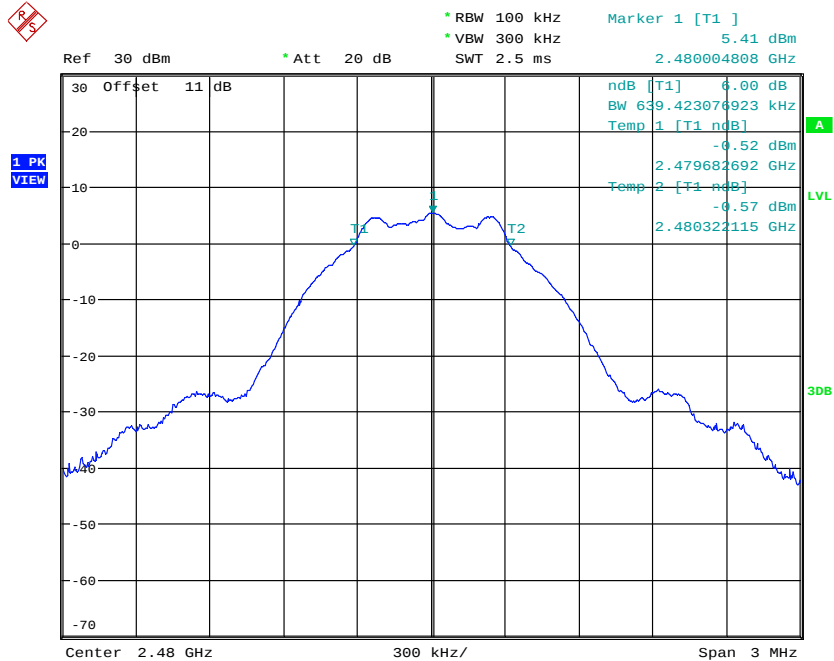
6DB BANDWIDTH BLE 1M CH00  
Date: 12.DEC.2023 11:50:24



6DB BANDWIDTH BLE 1M CH19  
Date: 12.DEC.2023 11:51:14



Registration number: W6M22312-23129-C-1  
FCC ID: 2ALHR012



6DB BANDWIDTH BLE 1M CH39  
Date: 12.DEC.2023 11:51:56

Test equipment used: Please see test equipment utilized (RF Conducted).



Registration number: W6M22312-23129-C-1

FCC ID: 2ALHR012

## **3.5 Peak Power Spectral Density**

### **3.5.1 Applicable Standard**

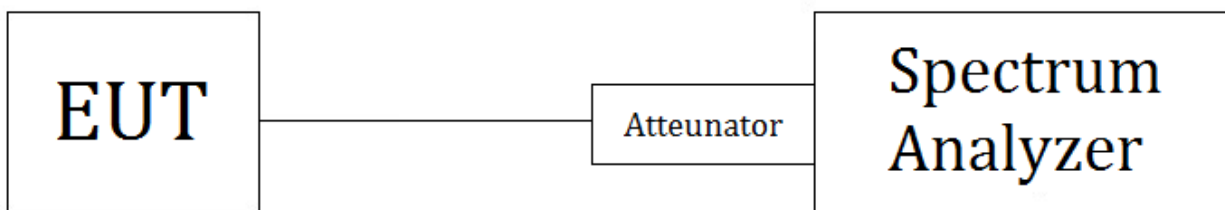
FCC Rules: 15.247(e)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### **3.5.2 Test procedure**

1. Set the RBW to  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ , the VBW  $\geq [3 \times \text{RBW}]$ .
2. Set Detector = peak, Sweep time = auto couple, Trace mode = max hold and allow trace to fully stabilize
3. Use the peak marker function to determine the maximum amplitude level within the RBW.

### **3.5.3 Test setup**



### **3.5.4 Limits**

| Frequency Range (MHz) | Limits (dBm/3KHz) |
|-----------------------|-------------------|
| 902-928               | 8                 |
| 2400-2483.5           |                   |
| 5725-5850             |                   |

### **3.5.5 Test Environmental Conditions**

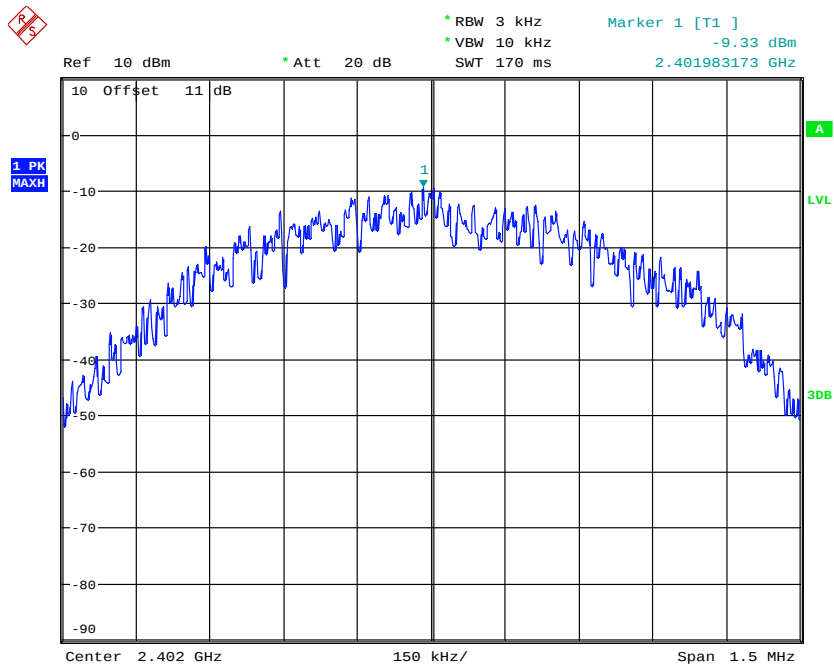
Test date: 2023-12-12 Temperature: 23.7°C Humidity: 59.5% Tester: Sora



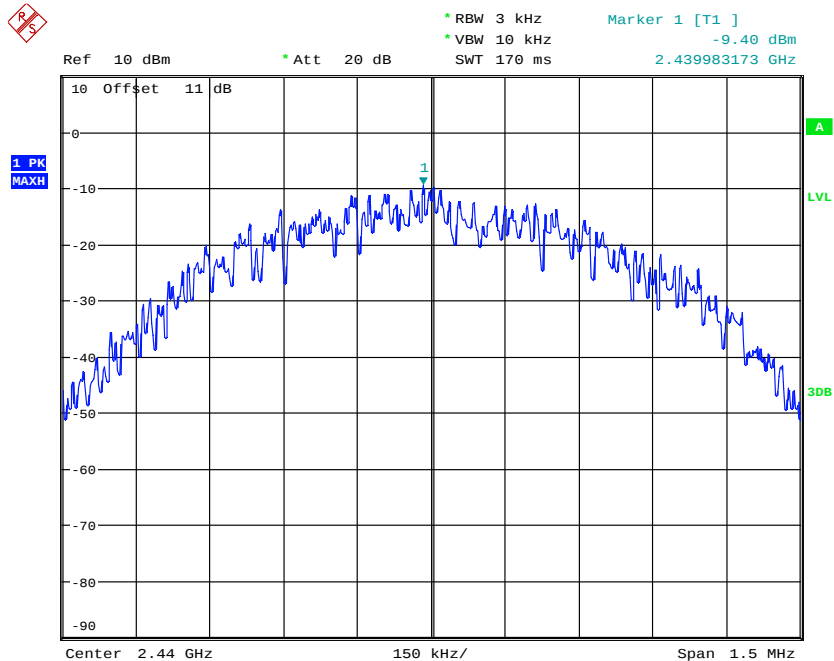
Registration number: W6M22312-23129-C-1

FCC ID: 2ALHR012

## 3.5.6 Test results



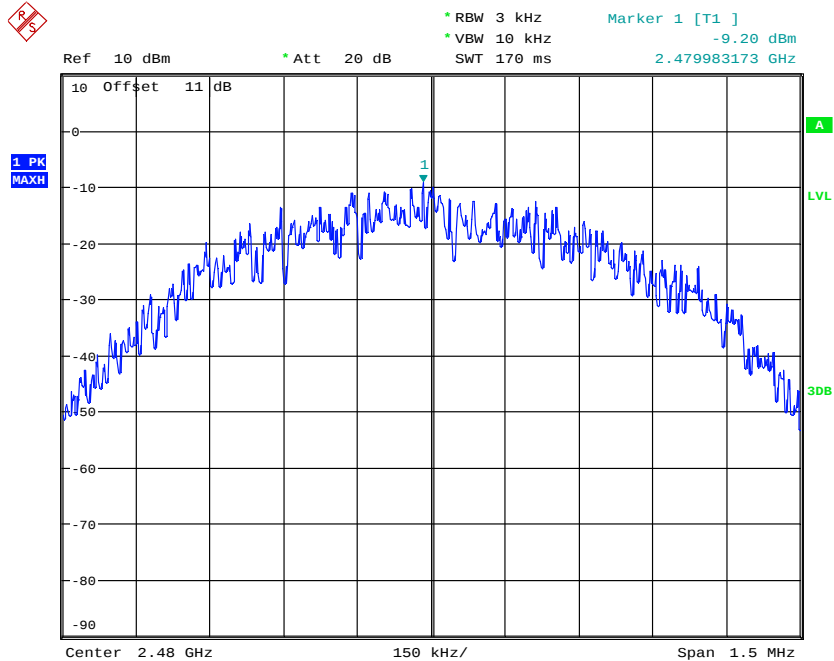
POWER DENSITY BLE 1M CH00  
Date: 12.DEC.2023 11:50:34



POWER DENSITY BLE 1M CH19  
Date: 12.DEC.2023 11:51:24



Registration number: W6M22312-23129-C-1  
FCC ID: 2ALHR012



POWER DENSITY BLE 1M CH39  
Date: 12.DEC.2023 11:52:06

Test equipment used: Please see test equipment utilized (RF Conducted).

Registration number: W6M22312-23129-C-1

FCC ID: 2ALHR012

## 3.6 Power Line Conducted Emission

### 3.6.1 Applicable Standard

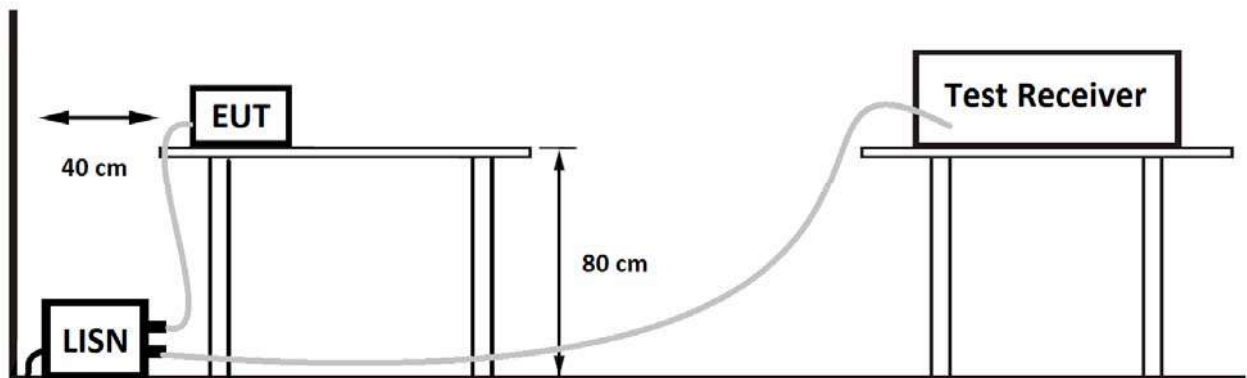
FCC Rules:15.207(a)

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.

### 3.6.2 Test procedure

1. EUT is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. Connect EUT to a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). AC input is 120V/60Hz
3. 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.

### 3.6.3 Test setup



### 3.6.4 Limits

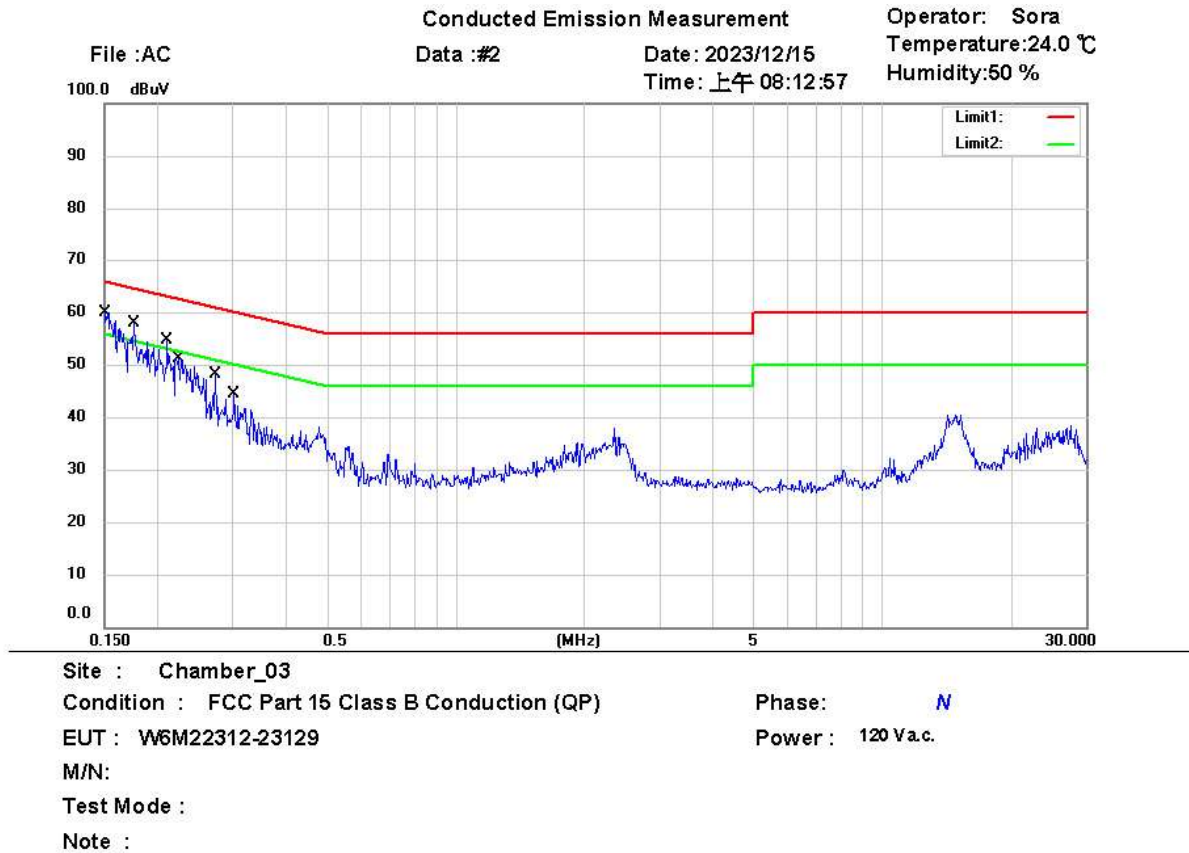
| Frequency of emission (MHz) | Conducted limit (dB $\mu$ V) |          |
|-----------------------------|------------------------------|----------|
|                             | Quasi-peak                   | Average  |
| 0.15-0.5                    | 66 to 56                     | 56 to 46 |
| 0.5-5                       | 56                           | 46       |
| 5-30                        | 60                           | 50       |



Registration number: W6M22312-23129-C-1

FCC ID: 2ALHR012

## 3.6.5 Test results (With Environmental Conditions)



| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corrected factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|----------------------|---------------|--------------|-------------|---------|
| *   | 0.1505          | 41.48          | QP       | 9.72                 | 51.20         | 65.97        | -14.77      |         |
|     | 0.1505          | 22.46          | AVG      | 9.72                 | 32.18         | 55.97        | -23.79      |         |
|     | 0.1764          | 37.28          | QP       | 9.71                 | 46.99         | 64.65        | -17.66      |         |
|     | 0.1764          | 16.25          | AVG      | 9.71                 | 25.96         | 54.65        | -28.69      |         |
|     | 0.2114          | 31.97          | QP       | 9.71                 | 41.68         | 63.15        | -21.47      |         |
|     | 0.2114          | 13.84          | AVG      | 9.71                 | 23.55         | 53.15        | -29.60      |         |
|     | 0.2253          | 30.19          | QP       | 9.71                 | 39.90         | 62.62        | -22.72      |         |
|     | 0.2253          | 10.88          | AVG      | 9.71                 | 20.59         | 52.62        | -32.03      |         |
|     | 0.2741          | 26.04          | QP       | 9.70                 | 35.74         | 60.99        | -25.25      |         |
|     | 0.2741          | 12.97          | AVG      | 9.70                 | 22.67         | 50.99        | -28.32      |         |
|     | 0.3028          | 22.06          | QP       | 9.70                 | 31.76         | 60.17        | -28.41      |         |
|     | 0.3028          | 9.25           | AVG      | 9.70                 | 18.95         | 50.17        | -31.22      |         |



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

Registration number: W6M22312-23129-C-1  
FCC ID: 2ALHR012

## Conducted Emission Measurement

Operator: Sora  
Temperature: 24.0 °C  
Humidity: 50 %



Site : Chamber\_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M22312-23129

Power : 120 V.a.c.

M/N:

Test Mode :

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corrected factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|----------------------|---------------|--------------|-------------|---------|
| *   | 0.1547          | 40.45          | QP       | 9.74                 | 50.19         | 65.74        | -15.55      |         |
|     | 0.1547          | 27.81          | AVG      | 9.74                 | 37.55         | 55.74        | -18.19      |         |
|     | 0.1708          | 38.17          | QP       | 9.73                 | 47.90         | 64.92        | -17.02      |         |
|     | 0.1708          | 11.58          | AVG      | 9.73                 | 21.31         | 54.92        | -33.61      |         |
|     | 0.1826          | 36.10          | QP       | 9.73                 | 45.83         | 64.37        | -18.54      |         |
|     | 0.1826          | 24.56          | AVG      | 9.73                 | 34.29         | 54.37        | -20.08      |         |
|     | 0.2365          | 28.19          | QP       | 9.71                 | 37.90         | 62.22        | -24.32      |         |
|     | 0.2365          | 10.32          | AVG      | 9.71                 | 20.03         | 52.22        | -32.19      |         |
|     | 0.2968          | 21.00          | QP       | 9.71                 | 30.71         | 60.33        | -29.62      |         |
|     | 0.2968          | 4.08           | AVG      | 9.71                 | 13.79         | 50.33        | -36.54      |         |
|     | 0.3280          | 21.38          | QP       | 9.70                 | 31.08         | 59.50        | -28.42      |         |
|     | 0.3280          | 4.90           | AVG      | 9.70                 | 14.60         | 49.50        | -34.90      |         |

Test equipment used: Please see test equipment utilized (AC Conducted).



Registration number: W6M22312-23129-C-1  
FCC ID: 2ALHR012

## **Appendix**

### **Measurement diagrams**

Radiated Emission



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Neihu, Taipei  
 Tel: +886-2-6606-8877  
 Fax: +886-2-6606-8875

## Radiated Emission Measurement

Operator: Sky

File: 1\_BLE(1M)\_TX 2402MHz Data: #1

Date: 2023/12/13

Temperature: 24.3 °C

80.0 dBuV/m

Time: 下午 07:17:38

Humidity: 59.1 %



Site: Chamber

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

EUT: W6M22312-23129

M/N:

Test Mode: TX 2402 MHz

Note:

Polarization: Horizontal

Power: 3.6 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 154.4088        | 41.22          | peak     | -8.25               | 32.97           | 43.50          | 103          | 290            | -10.53      |         |
|     | 990.2806        | 27.44          | peak     | 5.93                | 33.37           | 54.00          | 110          | 300            | -20.63      |         |

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



Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei  
Tel:+886-2-6606-8877  
Fax:+886-2-6606-8875

# Radiated Emission Measurement

Operator: Sky

File :1\_BLE(1M)\_TX 2402MHz Data :#2

Date: 2023/12/13

Temperature:24.3 °C

80.0 dBuV/m

Time: 下午 07:18:39

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2402 MHz

Note :

Polarization: **Vertical**

Power : 3.6 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 55.7515         | 48.59          | QP       | -11.08              | 37.51           | 40.00          | 100          | 40             | -2.49       |         |
|     | 945.5711        | 28.87          | peak     | 4.46                | 33.33           | 46.00          | 108          | 27             | -12.67      |         |

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



Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei  
Tel:+886-2-6606-8877  
Fax:+886-2-6606-8875

# Radiated Emission Measurement

Operator: Sky

File :3

Data :#1

Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:44:24

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2402 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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:+886-2-6606-8875

# Radiated Emission Measurement

Operator: Sky

File :3

Data :#6

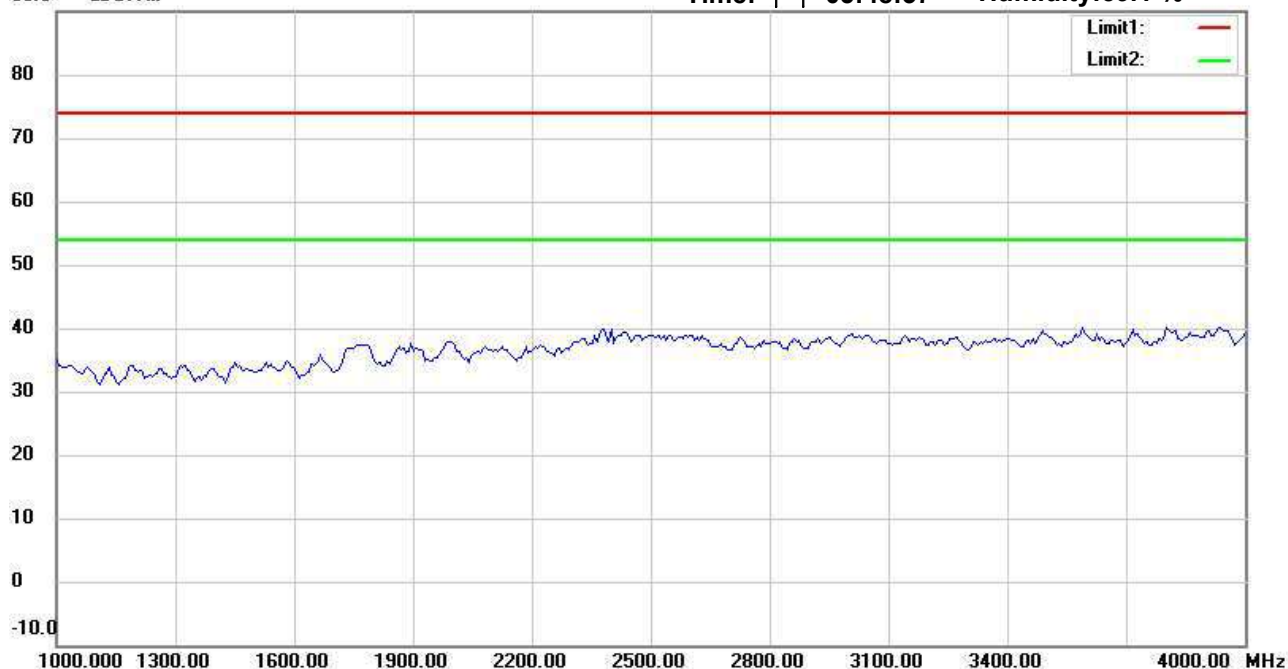
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:48:37

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2402 MHz

Note :

Polarization: **Vertical**

Power : 3.6 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: +886-2-6606-8875

Radiated Emission Measurement

Operator: Sky

File : 3

Data : #2

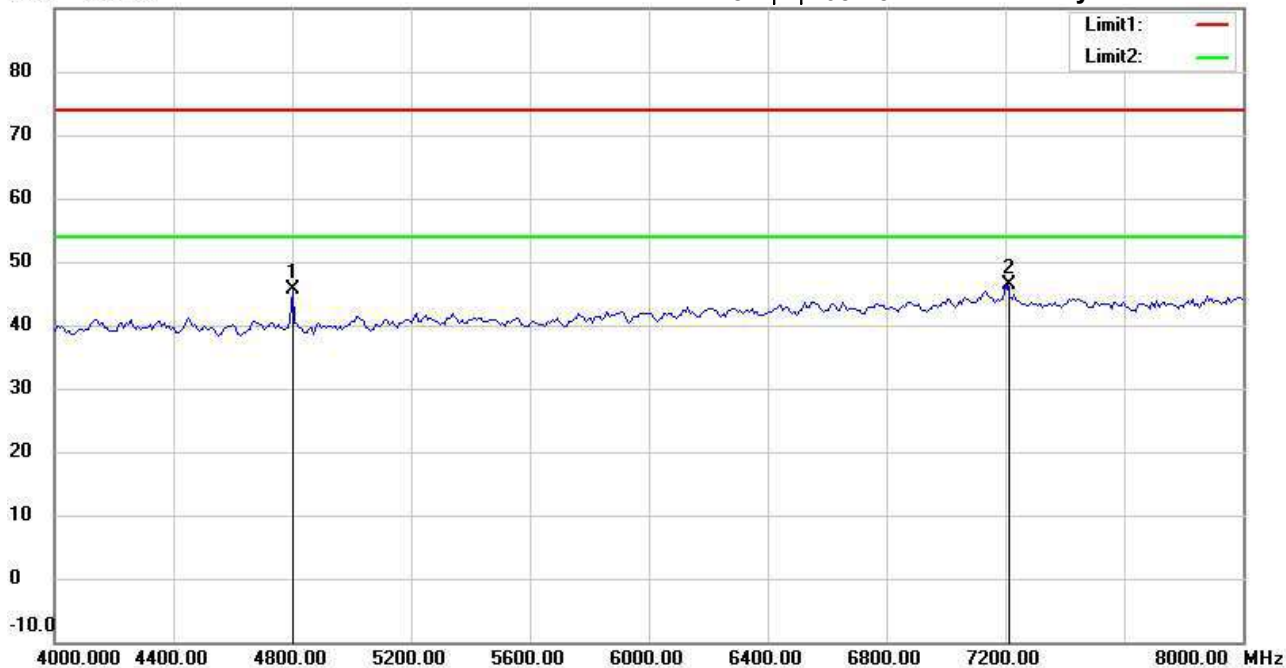
Date: 2023/12/13

Temperature: 24.3 °C

90.0 dBuV/m

Time: 下午 05:45:27

Humidity: 59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2402 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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        | 47.34          | peak     | -1.74               | 45.60           | 74.00          | 150          | 8              | -28.40      |         |
| *   | 7206.413        | 42.30          | peak     | 4.08                | 46.38           | 74.00          | 150          | 113            | -27.62      |         |

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



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Neihu, Taipei  
Tel: +886-2-6606-8877  
Fax: +886-2-6606-8875

# Radiated Emission Measurement

Operator: Sky

File : 3

Data : #7

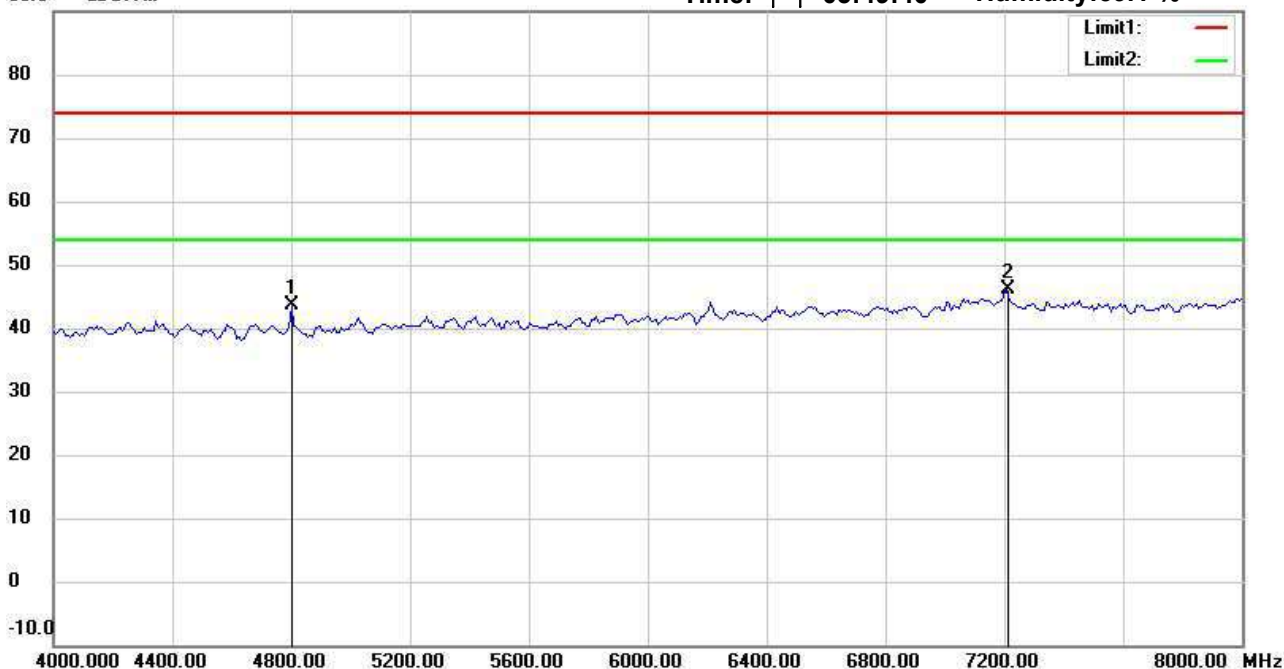
Date: 2023/12/13

Temperature: 24.3 °C

90.0 dBuV/m

Time: 下午 05:49:40

Humidity: 59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2402 MHz

Note :

Polarization: Vertical

Power : 3.6 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        | 45.47          | peak     | -1.74               | 43.73           | 74.00          | 150          | 7              | -30.27      |         |
| *   | 7206.413        | 42.15          | peak     | 4.08                | 46.23           | 74.00          | 150          | 110            | -27.77      |         |

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



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Neihu, Taipei  
Tel: +886-2-6606-8877  
Fax: +886-2-6606-8875

# Radiated Emission Measurement

Operator: Sky

File : 3

Data : #3

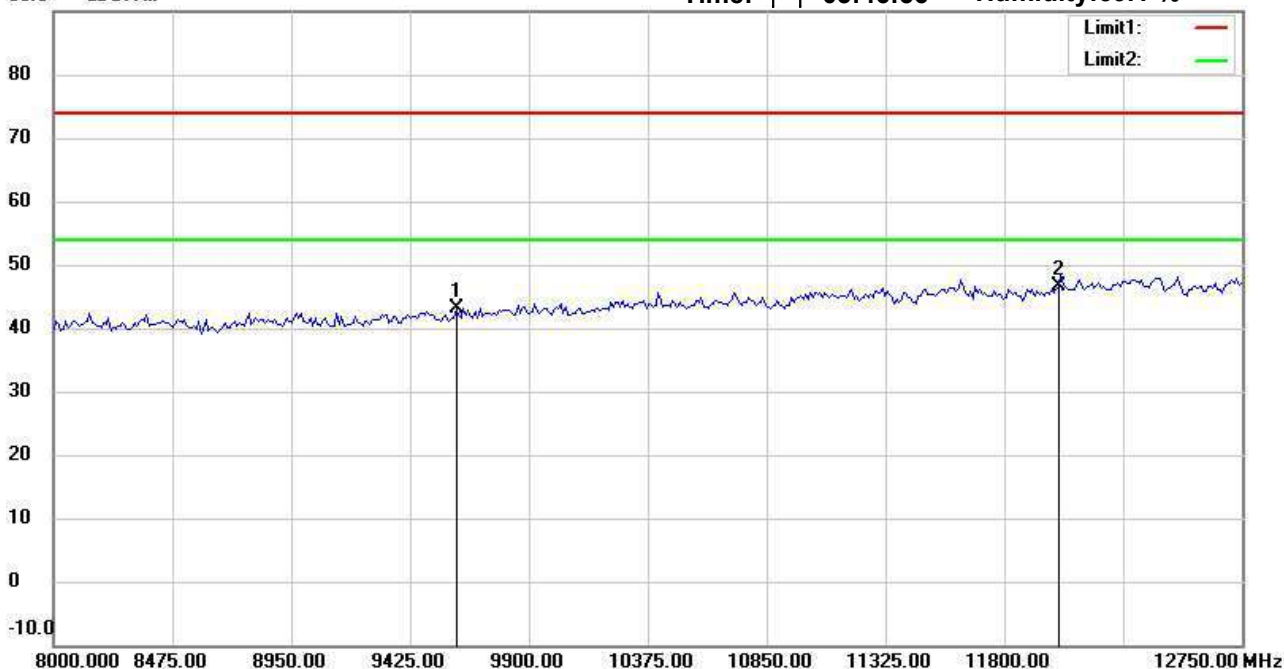
Date: 2023/12/13

Temperature: 24.3 °C

90.0 dBuV/m

Time: 下午 05:46:56

Humidity: 59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2402 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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        | 36.29          | peak     | 6.90                | 43.19           | 74.00          | 150          | 300            | -30.81      |         |
| *   | 12010.000       | 34.46          | peak     | 12.19               | 46.65           | 74.00          | 150          | 4              | -27.35      |         |

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



Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei  
Tel:+886-2-6606-8877  
Fax:+886-2-6606-8875

# Radiated Emission Measurement

Operator: Sky

File :3

Data :#8

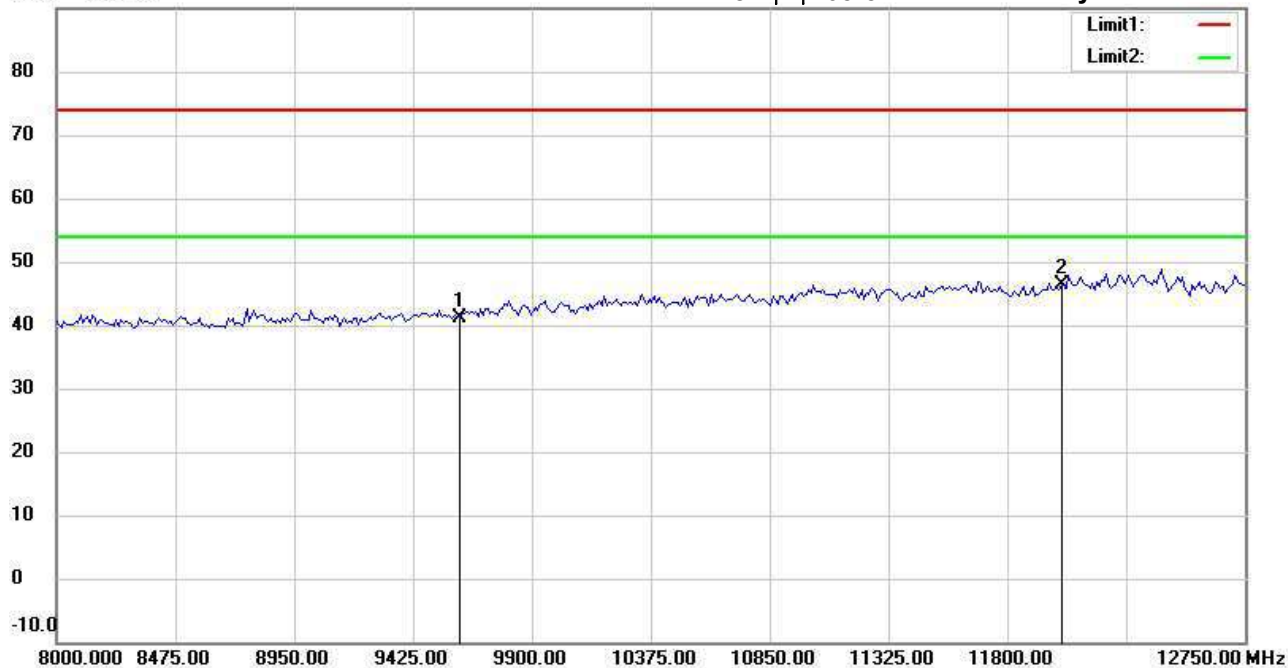
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:51:12

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2402 MHz

Note :

Polarization: Vertical

Power : 3.6 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        | 34.29          | peak     | 6.90                | 41.19           | 74.00          | 150          | 341            | -32.81      |         |
| *   | 12010.000       | 34.29          | peak     | 12.19               | 46.48           | 74.00          | 150          | 29             | -27.52      |         |

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



Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei  
Tel:+886-2-6606-8877  
Fax:+886-2-6606-8875

# Radiated Emission Measurement

Operator: Sky

File :3

Data :#4

Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:47:12

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2402 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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:+886-2-6606-8875

# Radiated Emission Measurement

Operator: Sky

File :3

Data :#9

Date: 2023/12/13

Temperature:24.3 °C

Time: 下午 05:51:28

Humidity:59.1 %

90.0 dBuV/m



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2402 MHz

Note :

Polarization: Vertical

Power : 3.6 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: Sky

File :3

Data :#5

Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:47:22

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2402 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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: Sky

File :3

Data :#10

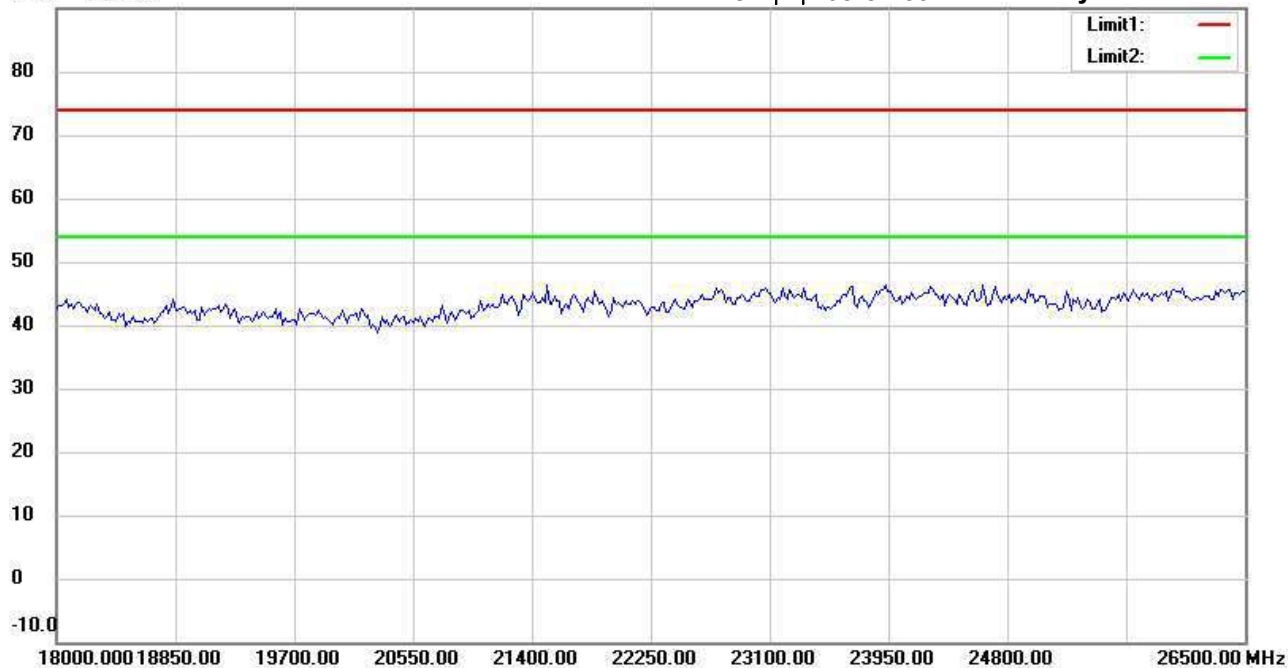
Date: 2023/12/13

Temperature:24.3 °C

Time: 下午 05:51:39

Humidity:59.1 %

90.0 dBuV/m



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2402 MHz

Note :

Polarization: Vertical

Power : 3.6 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: Sky

File :3

Data :#1

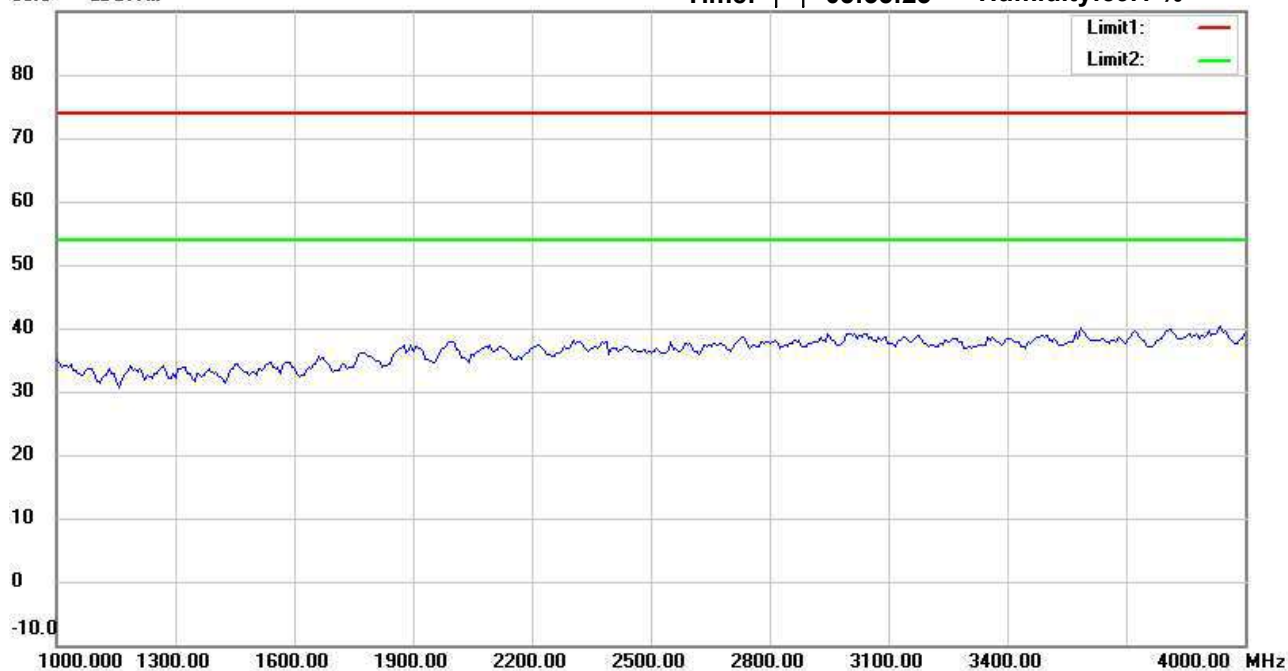
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:35:23

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2440 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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: Sky

File :3

Data :#6

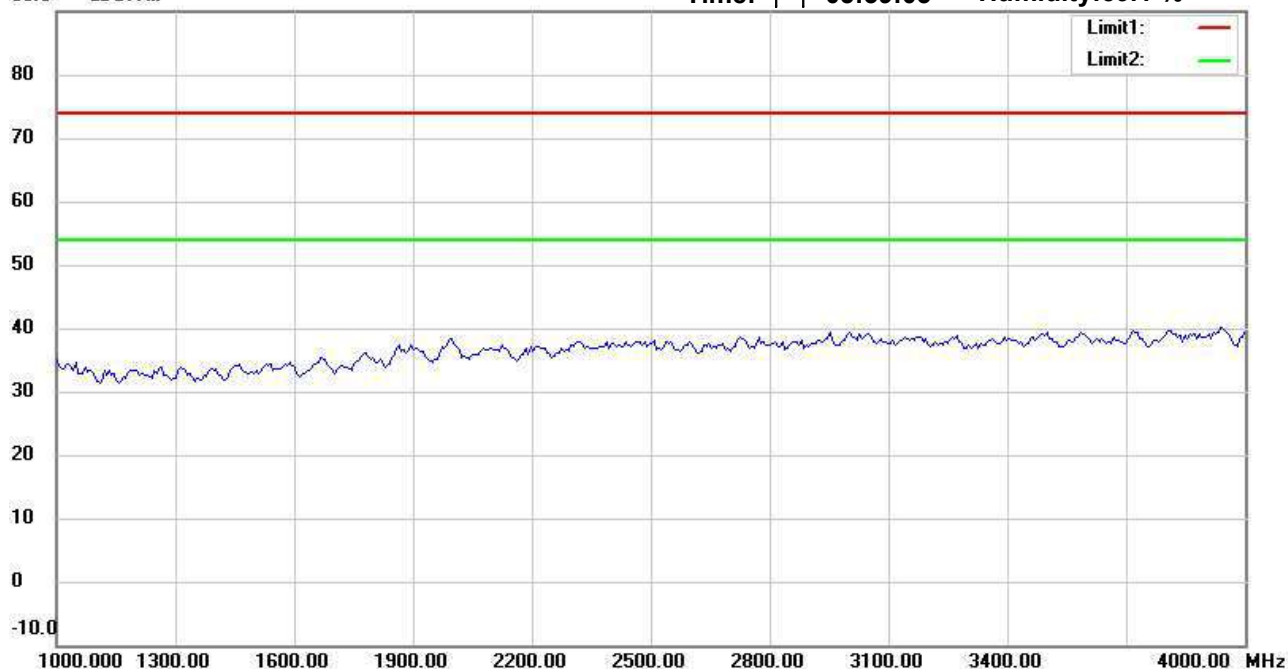
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:39:03

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2440 MHz

Note :

Polarization: Vertical

Power : 3.6 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: Sky

File :3

Data :#2

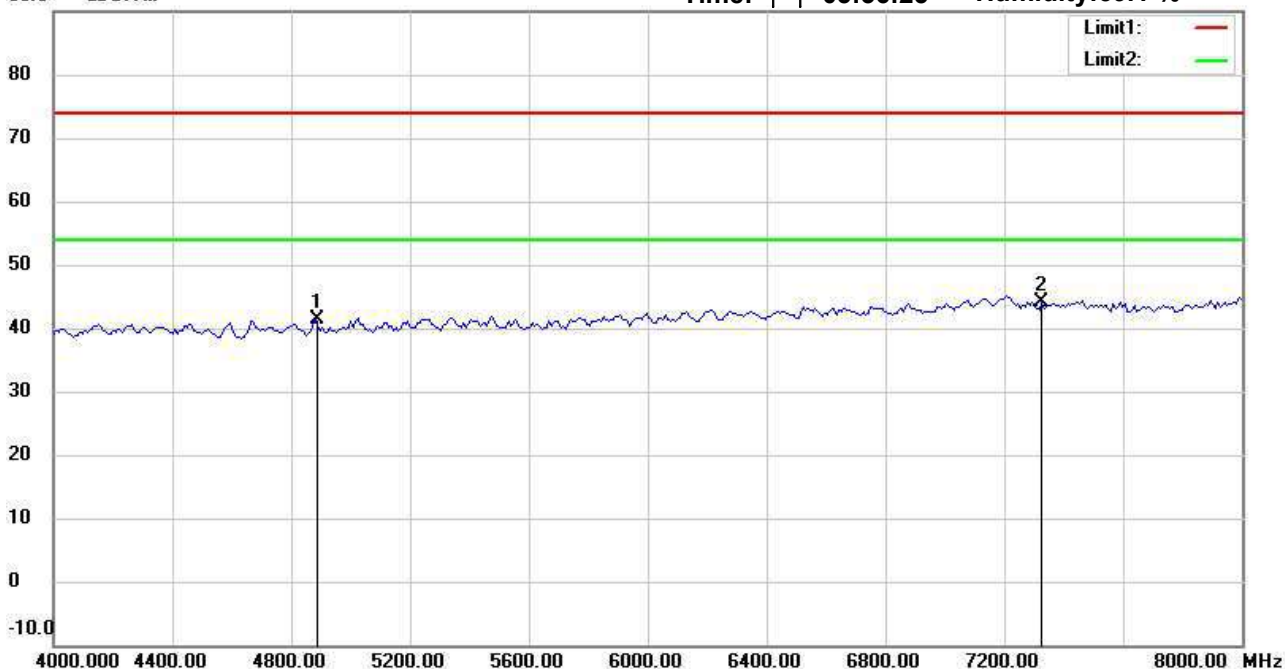
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:36:25

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2440 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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        | 42.69          | peak     | -1.40               | 41.29           | 74.00          | 150          | 9              | -32.71      |         |
| *   | 7320.000        | 40.50          | peak     | 3.59                | 44.09           | 74.00          | 150          | 66             | -29.91      |         |

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



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# Radiated Emission Measurement

Operator: Sky

File : 3

Data : #7

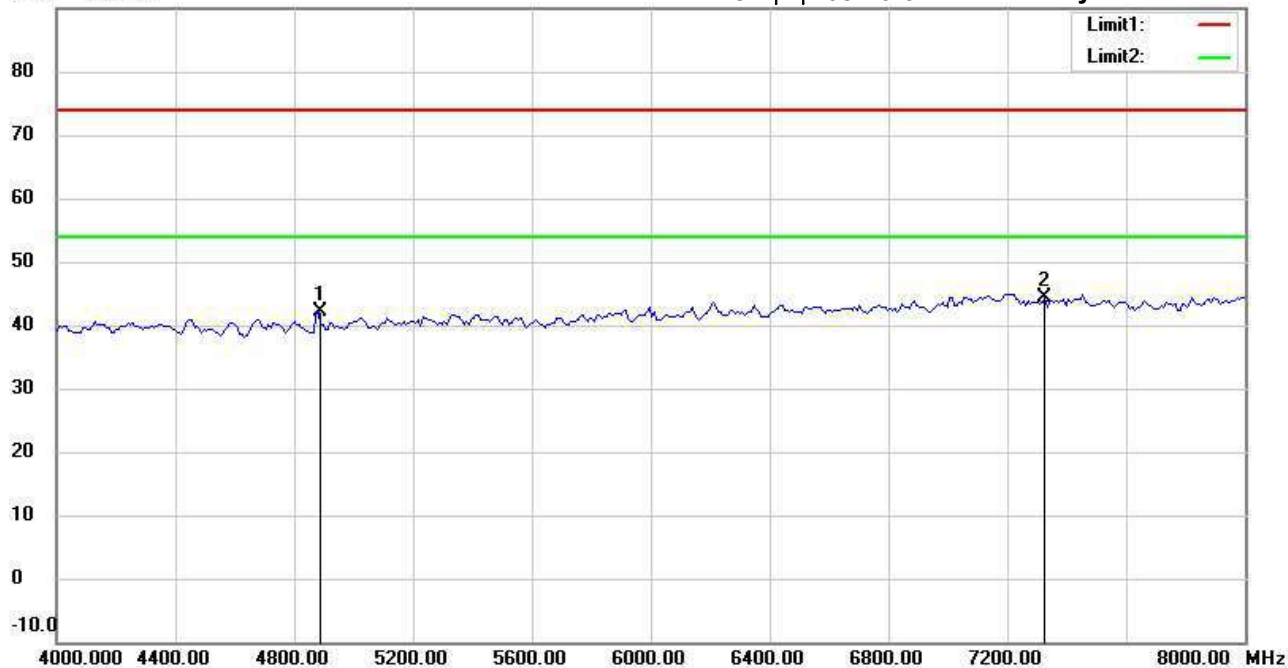
Date: 2023/12/13

Temperature: 24.3 °C

90.0 dBuV/m

Time: 下午 05:40:04

Humidity: 59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2440 MHz

Note :

Polarization: Vertical

Power : 3.6 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        | 43.41          | peak     | -1.40               | 42.01           | 74.00          | 150          | 74             | -31.99      |         |
| *   | 7320.000        | 40.69          | peak     | 3.59                | 44.28           | 74.00          | 150          | 99             | -29.72      |         |

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



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# Radiated Emission Measurement

Operator: Sky

File : 3

Data : #3

Date: 2023/12/13

Temperature: 24.3 °C

90.0 dBuV/m

Time: 下午 05:37:36

Humidity: 59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2440 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 9760.000        | 33.93          | peak     | 7.24                | 41.17           | 74.00          | 150          | 13             | -32.83      |         |
| *   | 12200.000       | 33.53          | peak     | 13.50               | 47.03           | 74.00          | 150          | 74             | -26.97      |         |

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



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# Radiated Emission Measurement

Operator: Sky

File : 3

Data : #8

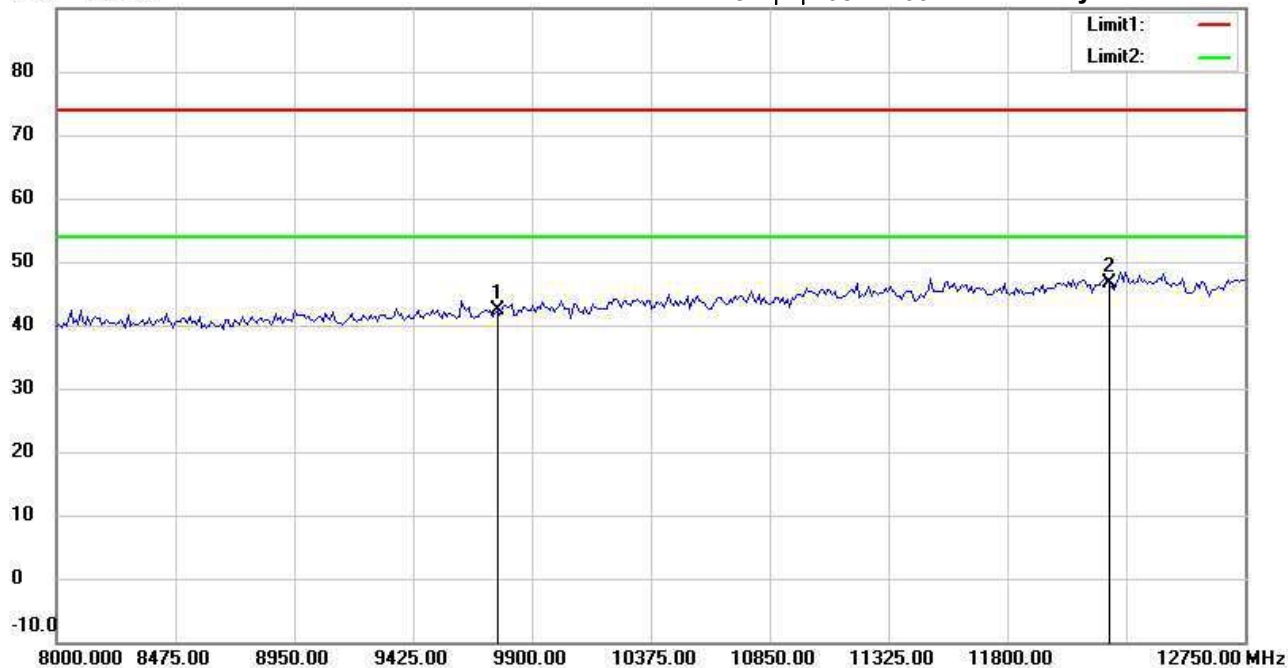
Date: 2023/12/13

Temperature: 24.3 °C

90.0 dBuV/m

Time: 下午 05:41:09

Humidity: 59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2440 MHz

Note :

Polarization: Vertical

Power : 3.6 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 9760.000        | 35.15          | peak     | 7.24                | 42.39           | 74.00          | 150          | 306            | -31.61      |         |
| *   | 12200.000       | 33.02          | peak     | 13.50               | 46.52           | 74.00          | 150          | 28             | -27.48      |         |

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



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# Radiated Emission Measurement

Operator: Sky

File :3

Data :#4

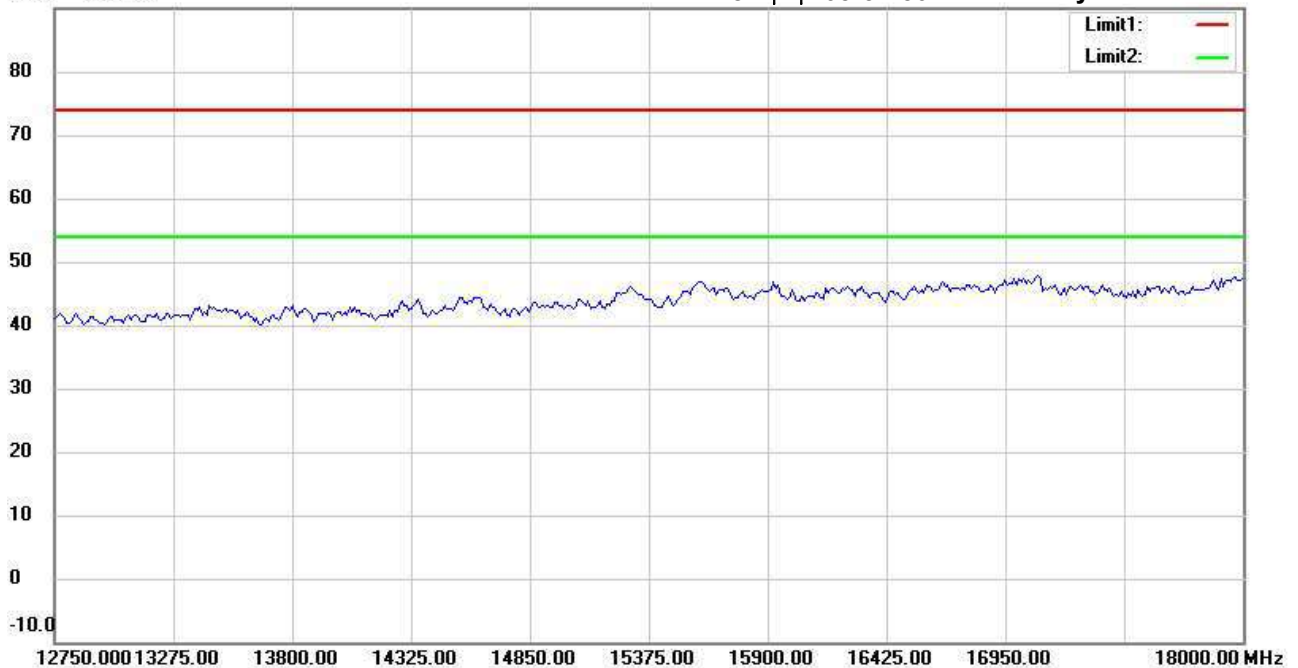
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:37:50

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2440 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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: Sky

File :3

Data :#9

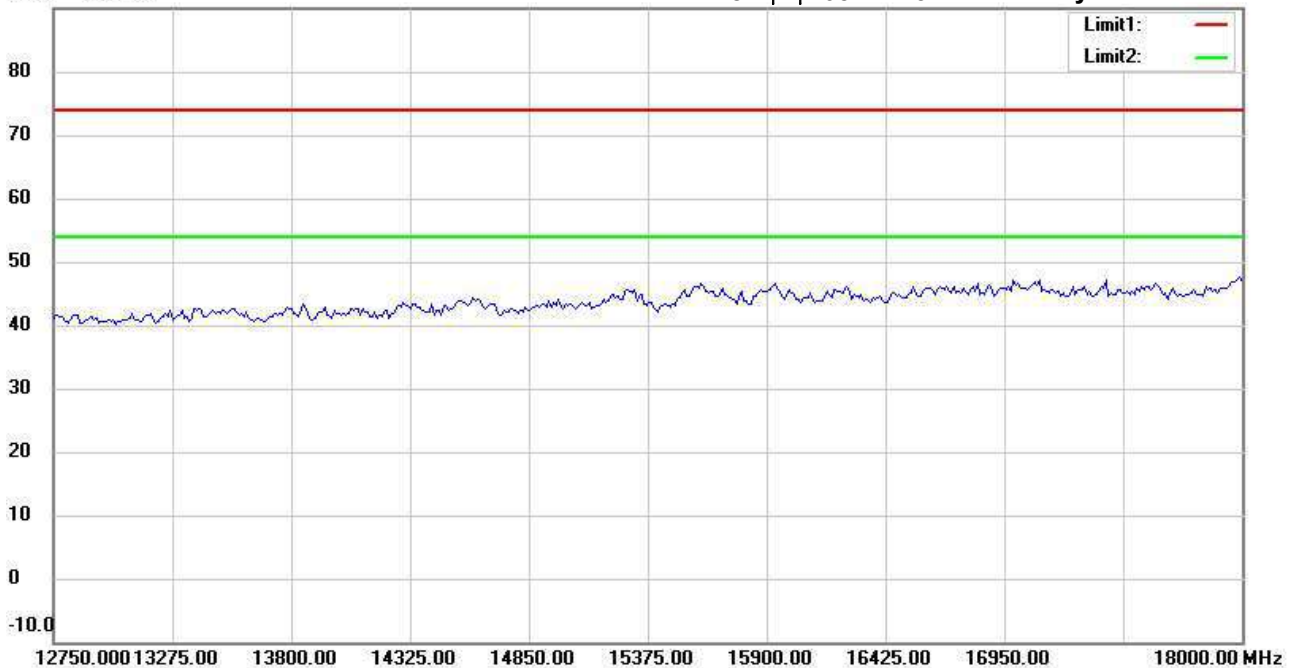
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:41:23

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2440 MHz

Note :

Polarization: Vertical

Power : 3.6 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: Sky

File :3

Data :#5

Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:38:00

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2440 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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: Sky

File :3

Data :#10

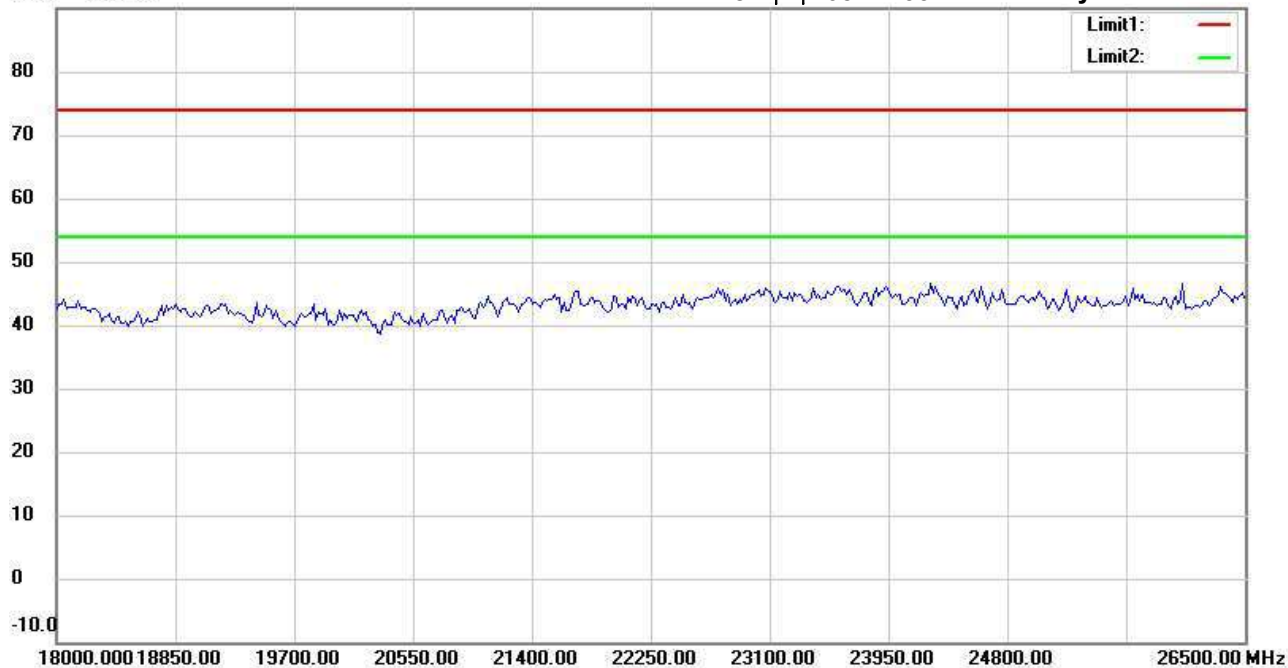
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:41:33

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2440 MHz

Note :

Polarization: Vertical

Power : 3.6 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: Sky

File :3

Data :#1

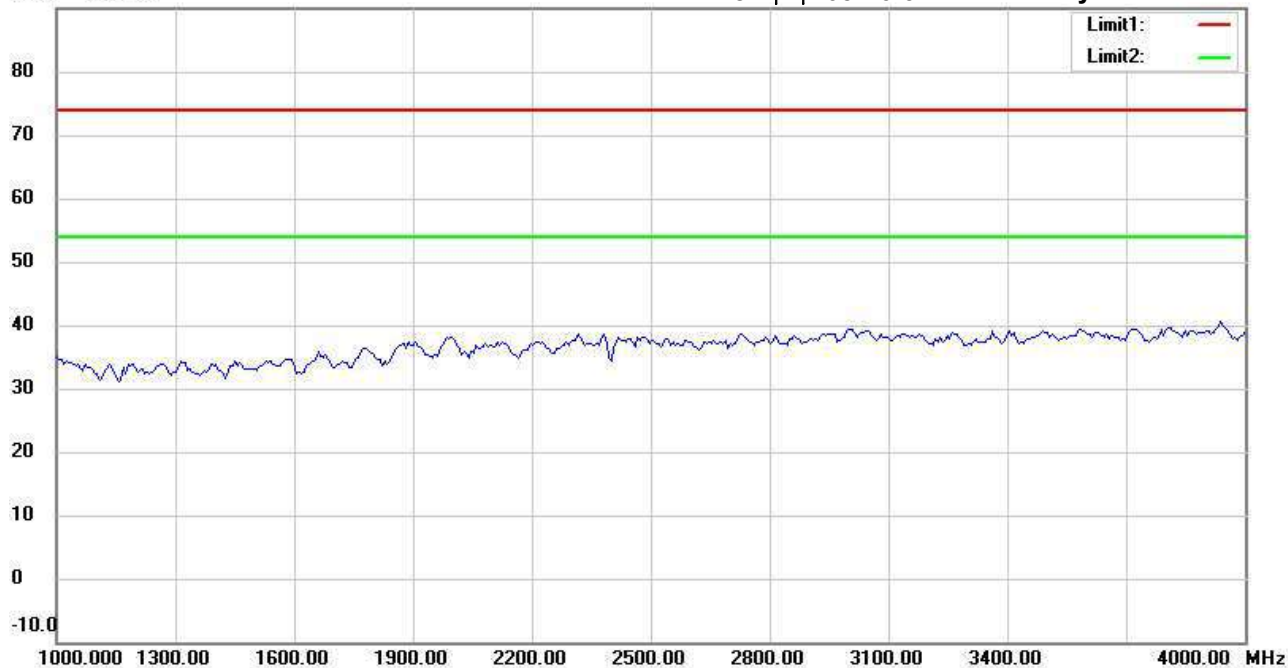
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:26:32

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2480 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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: Sky

File :3

Data :#6

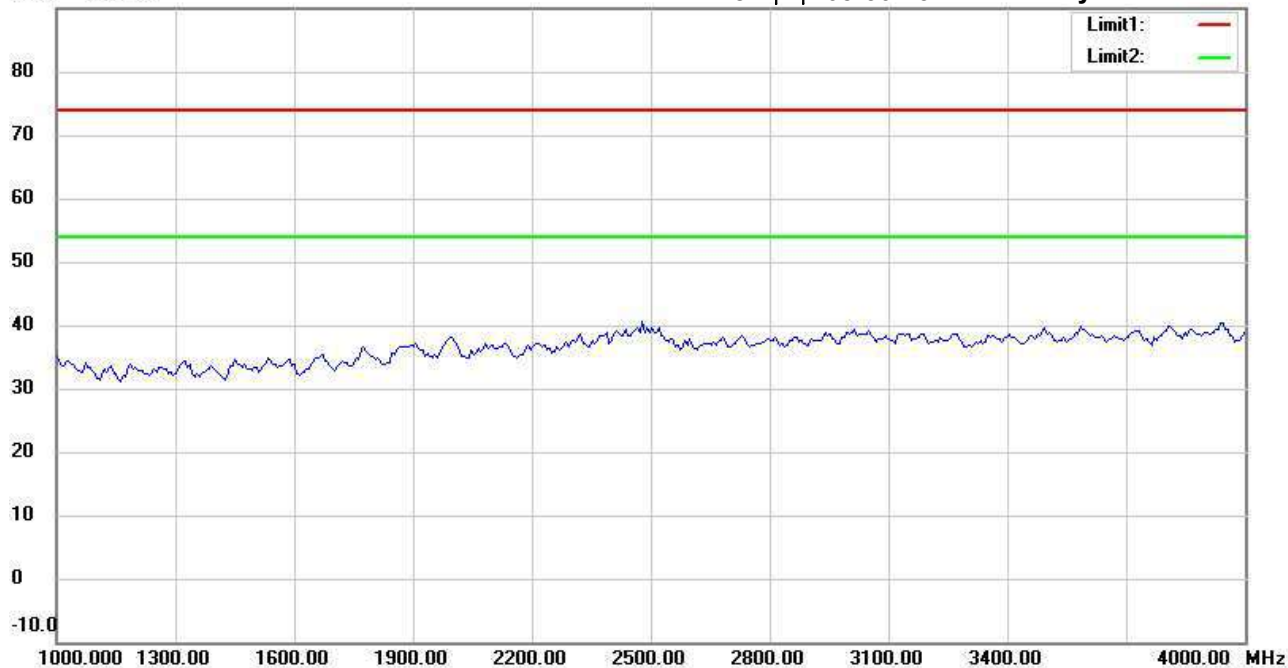
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:30:13

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2480 MHz

Note :

Polarization: **Vertical**

Power : 3.6 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: Sky

File : 3

Data : #2

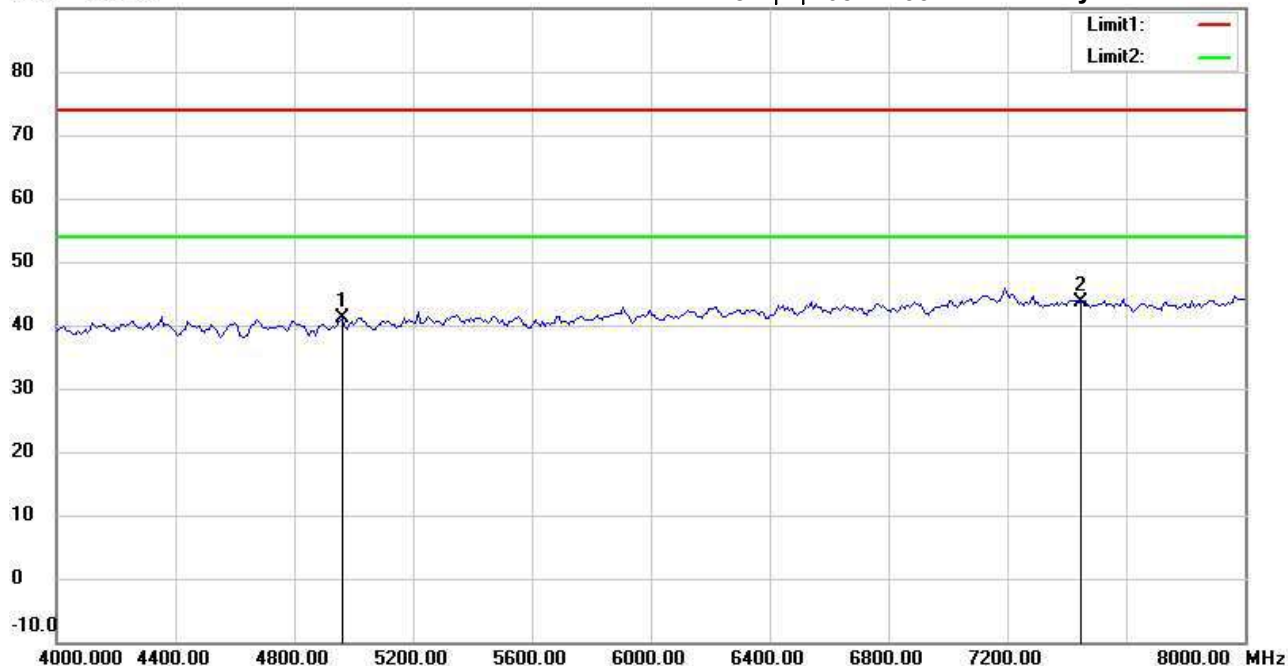
Date: 2023/12/13

Temperature: 24.3 °C

90.0 dBuV/m

Time: 下午 05:27:33

Humidity: 59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2480 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 4960.000        | 42.02          | peak     | -0.79               | 41.23           | 74.00          | 150          | 93             | -32.77      |         |
| *   | 7440.000        | 39.91          | peak     | 3.81                | 43.72           | 74.00          | 150          | 288            | -30.28      |         |

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



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# Radiated Emission Measurement

Operator: Sky

File :3

Data :#7

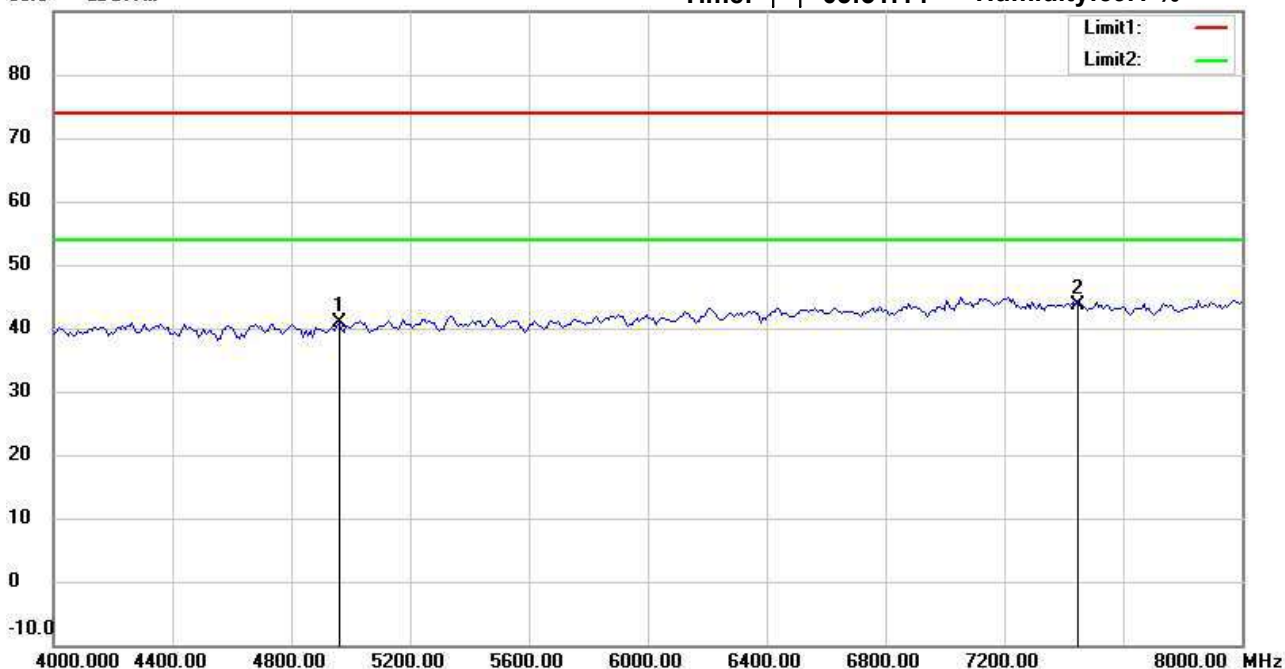
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:31:14

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2480 MHz

Note :

Polarization: **Vertical**

Power : 3.6 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 4960.000        | 41.59          | peak     | -0.79               | 40.80           | 74.00          | 150          | 300            | -33.20      |         |
| *   | 7440.000        | 39.81          | peak     | 3.81                | 43.62           | 74.00          | 150          | 7              | -30.38      |         |

\*: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: Sky

File : 3

Data : #3

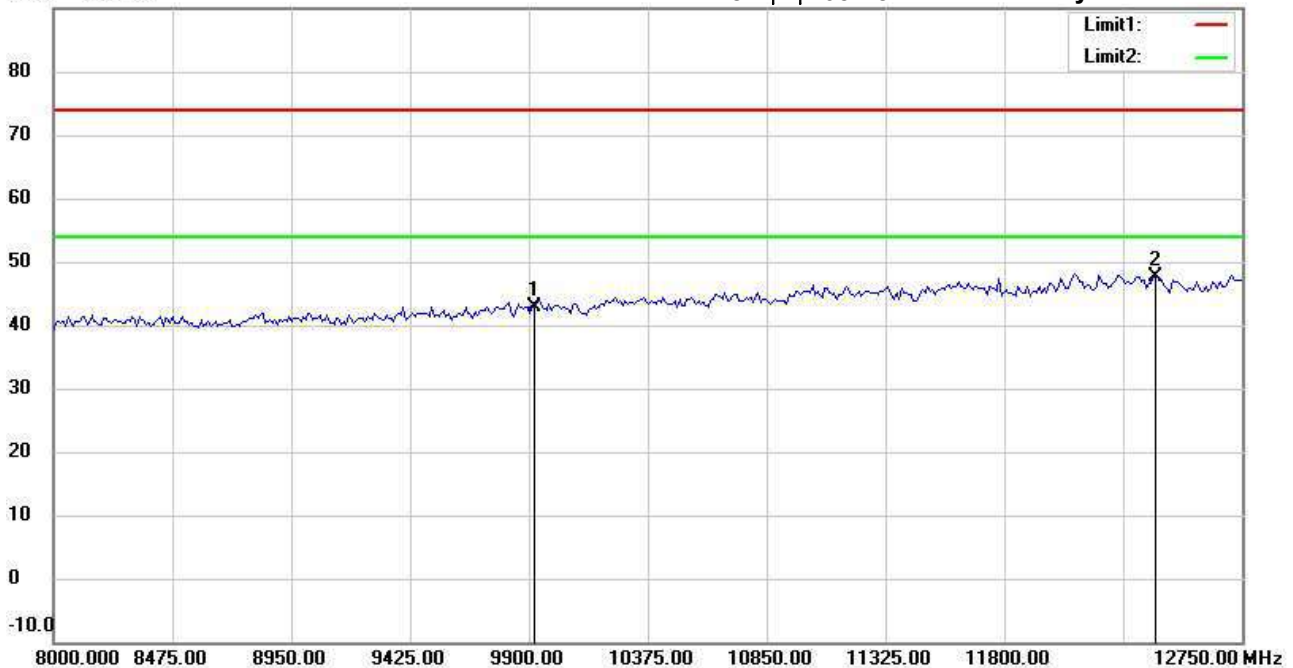
Date: 2023/12/13

Temperature: 24.3 °C

90.0 dBuV/m

Time: 下午 05:28:47

Humidity: 59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2480 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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        | 35.30          | peak     | 7.56                | 42.86           | 74.00          | 150          | 209            | -31.14      |         |
| *   | 12400.000       | 34.01          | peak     | 13.51               | 47.52           | 74.00          | 150          | 7              | -26.48      |         |

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



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# Radiated Emission Measurement

Operator: Sky

File : 3

Data : #8

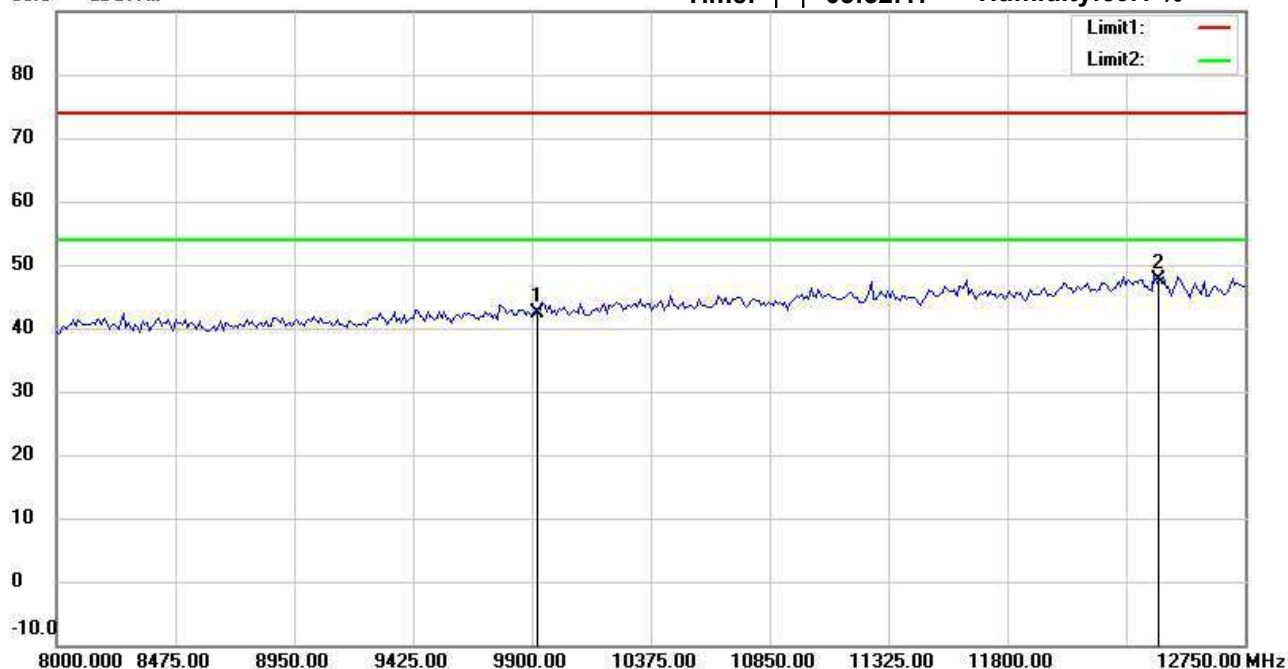
Date: 2023/12/13

Temperature: 24.3 °C

90.0 dBuV/m

Time: 下午 05:32:17

Humidity: 59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2480 MHz

Note :

Polarization: Vertical

Power : 3.6 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        | 34.94          | peak     | 7.56                | 42.50           | 74.00          | 150          | 28             | -31.50      |         |
| *   | 12400.000       | 34.01          | peak     | 13.51               | 47.52           | 74.00          | 150          | 66             | -26.48      |         |

\*: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: Sky

File :3

Data :#4

Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:29:01

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2480 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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: Sky

File :3

Data :#9

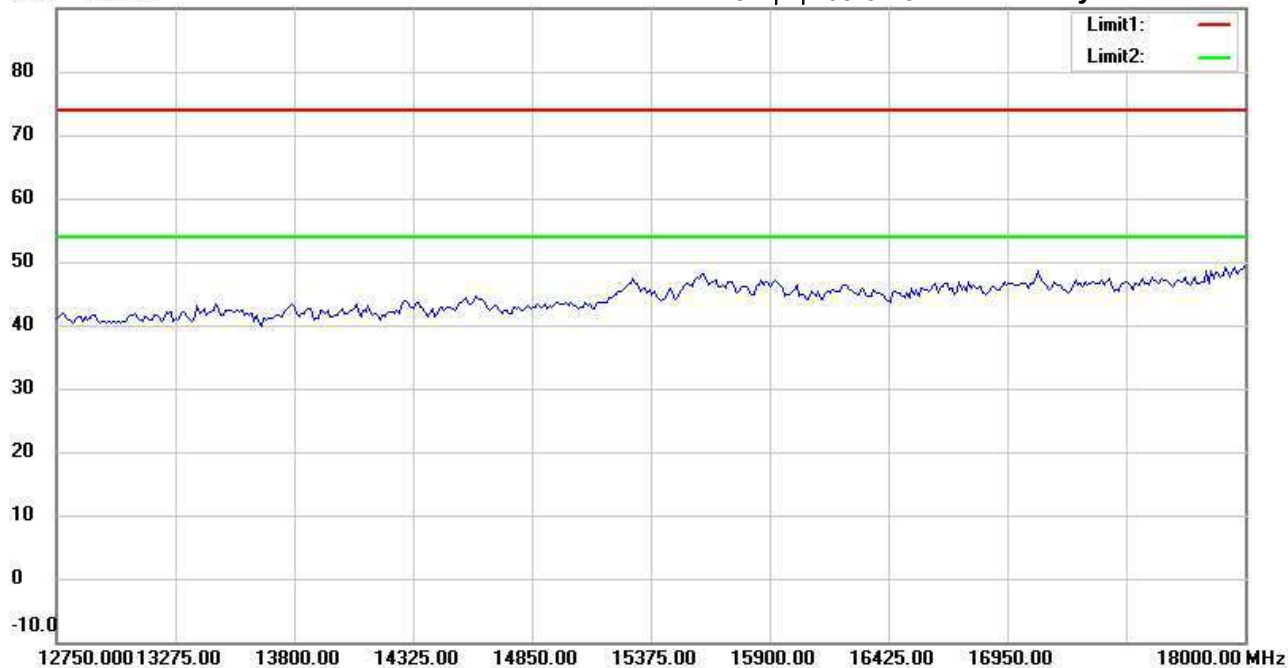
Date: 2023/12/13

Temperature:24.3 °C

Time: 下午 05:32:31

Humidity:59.1 %

90.0 dBuV/m



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2480 MHz

Note :

Polarization: Vertical

Power : 3.6 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: Sky

File : 3

Data : #5

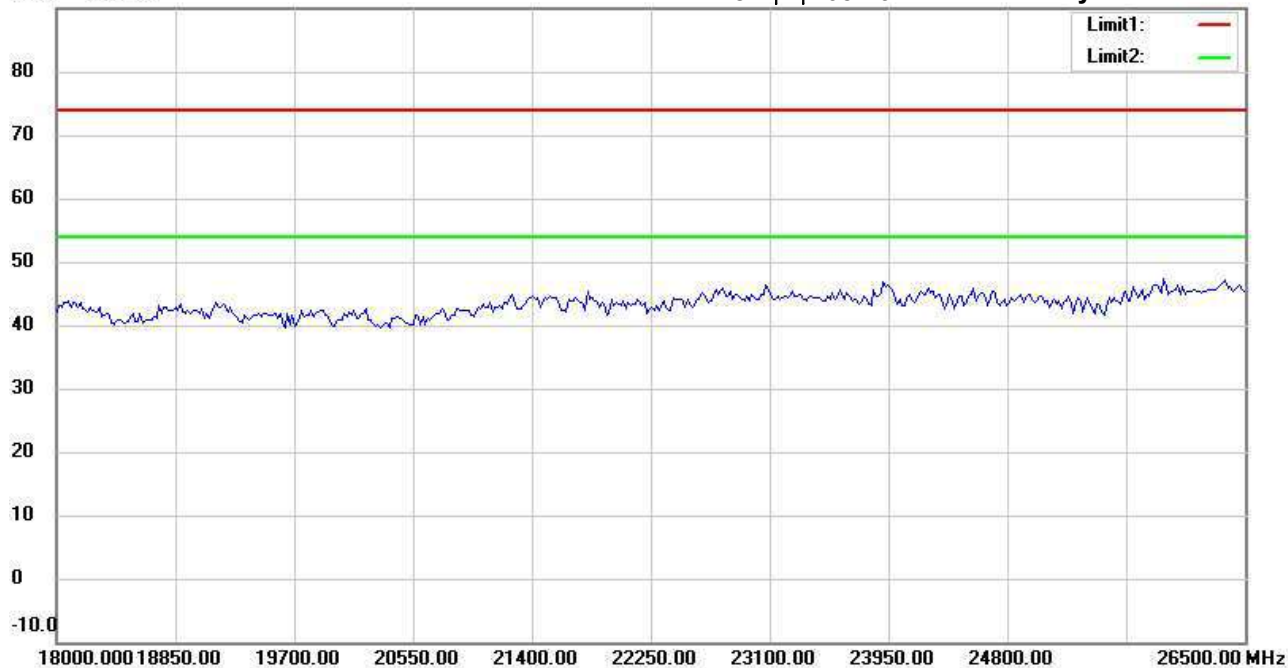
Date: 2023/12/13

Temperature: 24.3 °C

90.0 dBuV/m

Time: 下午 05:29:11

Humidity: 59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2480 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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: Sky

File :3

Data :#10

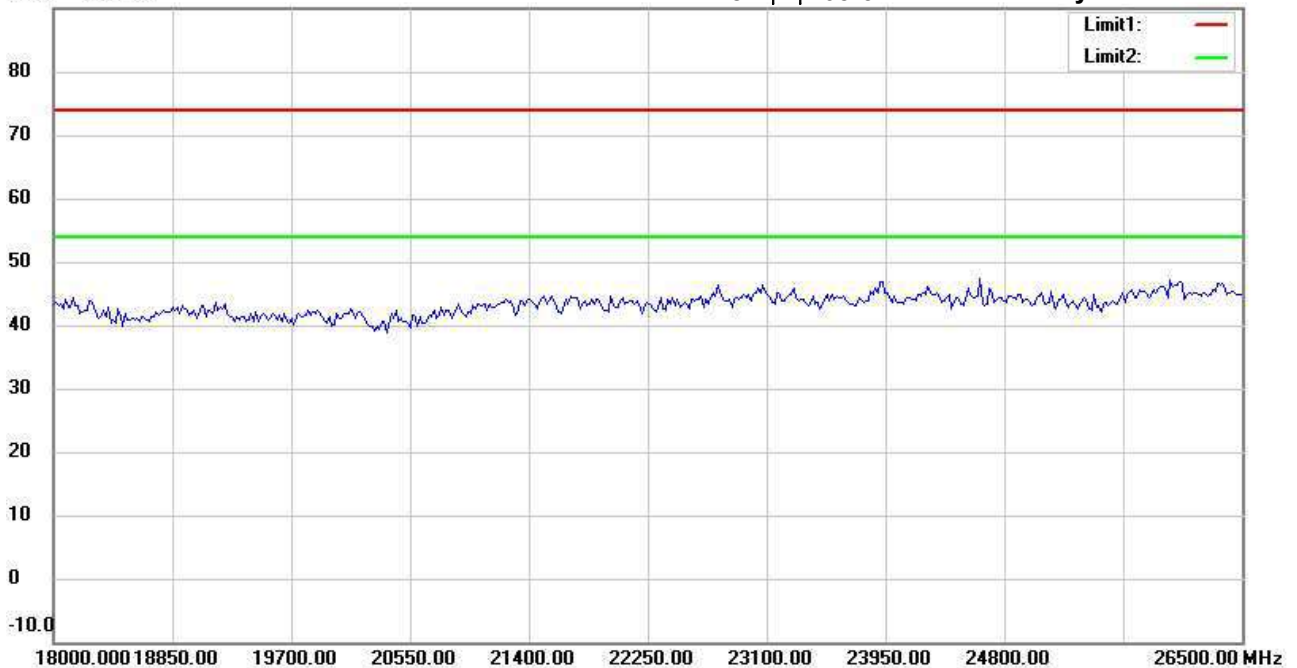
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:32:41

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : TX 2480 MHz

Note :

Polarization: **Vertical**

Power : 3.6 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: Sky

File :3

Data :#1

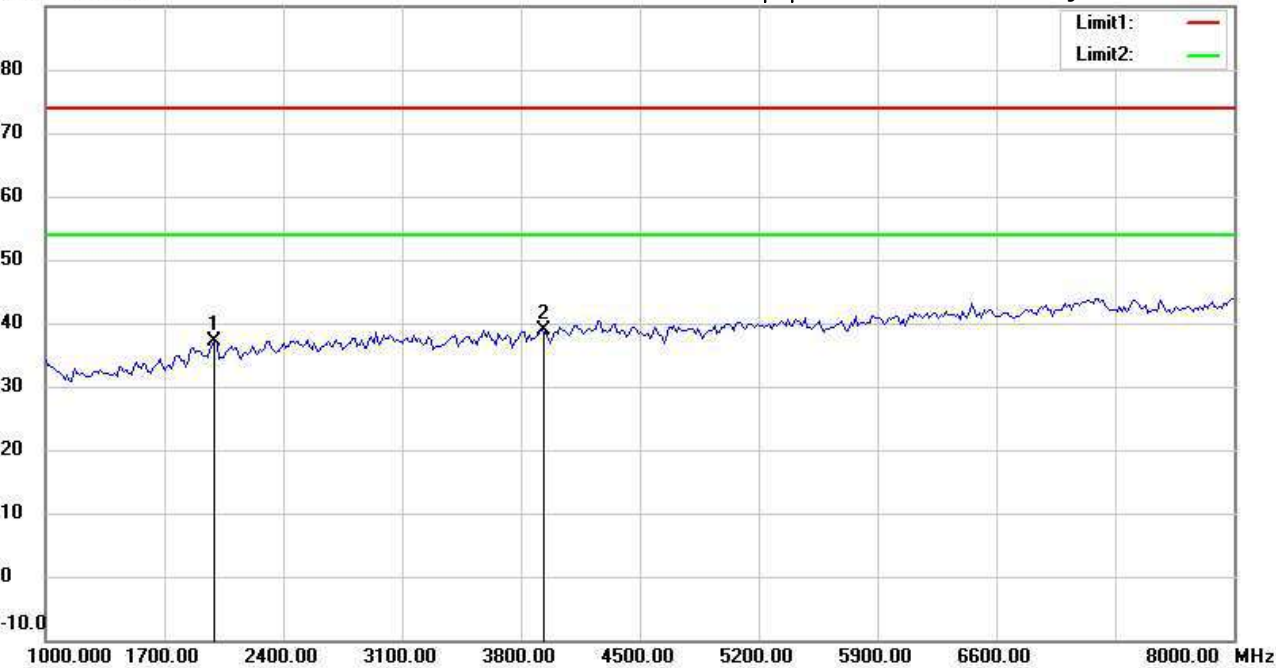
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:58:08

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2402 MHz

Note :

Polarization: Horizontal

Power : 3.6 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 1995.992        | 43.38          | peak     | -6.29               | 37.09           | 74.00          | 150          | 300            | -36.91      |         |
| *   | 3917.836        | 40.96          | peak     | -1.96               | 39.00           | 74.00          | 150          | 84             | -35.00      |         |



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# Radiated Emission Measurement

Operator: Sky

File : 3

Data : #5

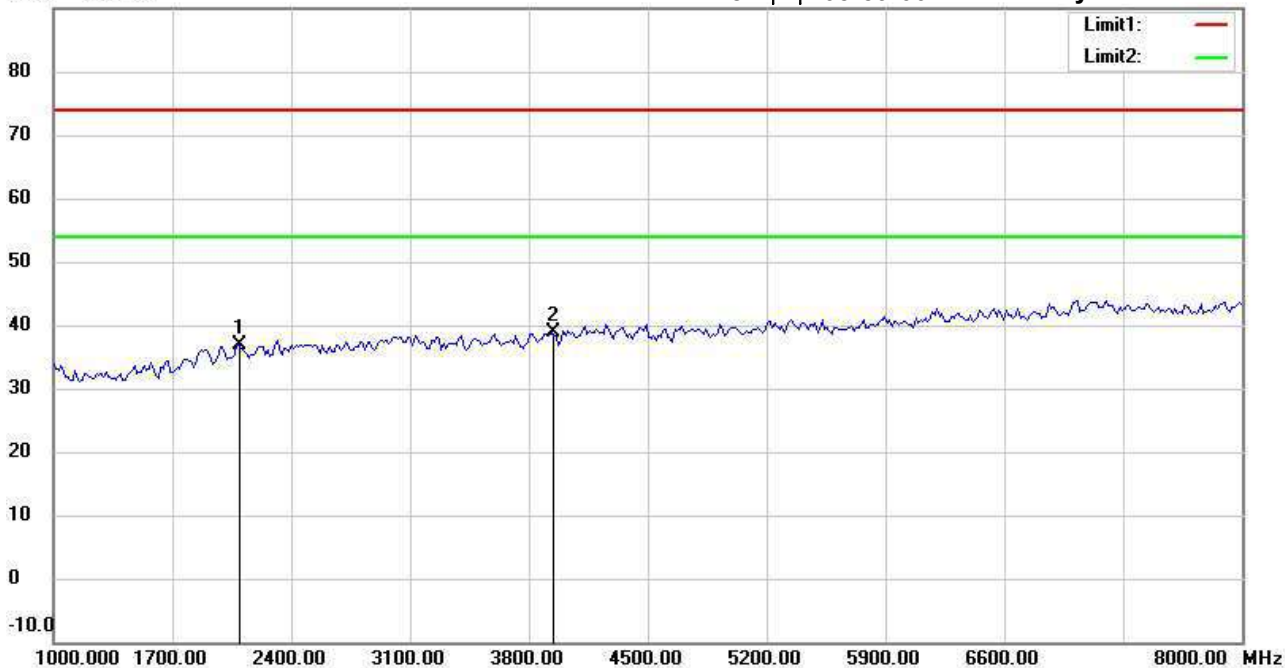
Date: 2023/12/13

Temperature: 24.3 °C

90.0 dBuV/m

Time: 下午 05:59:00

Humidity: 59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2402 MHz

Note :

Polarization: Vertical

Power : 3.6 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 2094.188        | 43.30          | peak     | -6.33               | 36.97           | 74.00          | 150          | 28             | -37.03      |         |
| *   | 3931.864        | 40.96          | peak     | -1.99               | 38.97           | 74.00          | 150          | 34             | -35.03      |         |

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



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# Radiated Emission Measurement

Operator: Sky

File :3

Data :#2

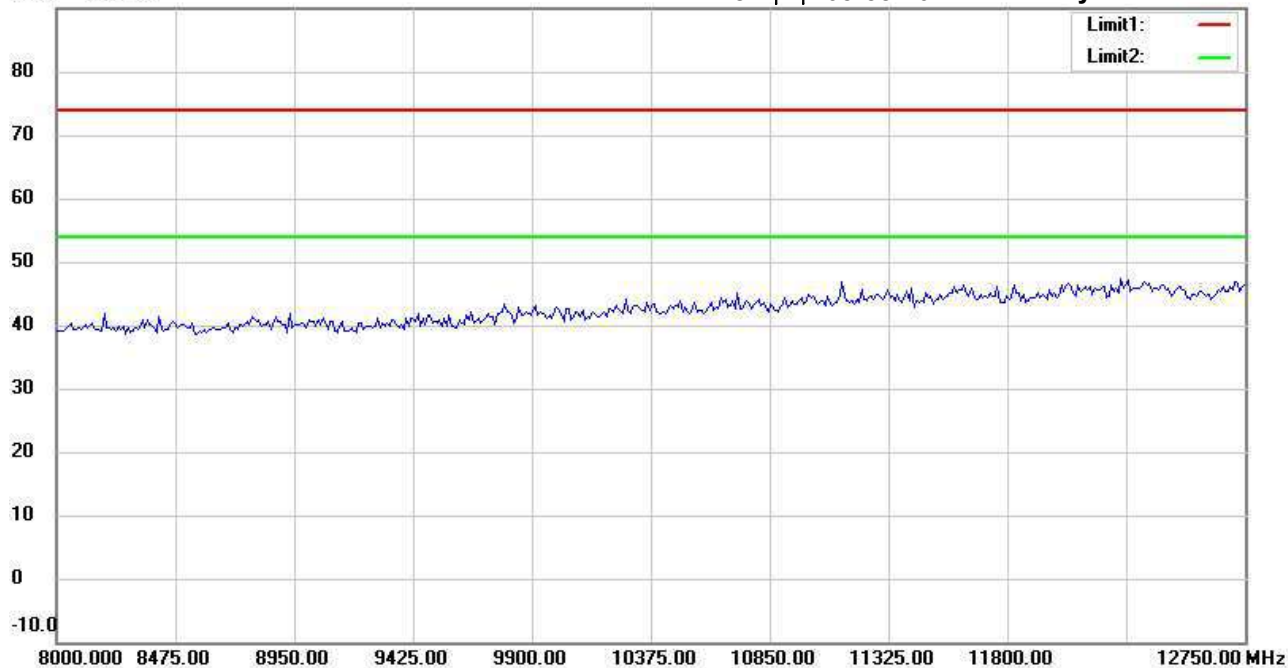
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:58:20

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2402 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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: Sky

File :3

Data :#6

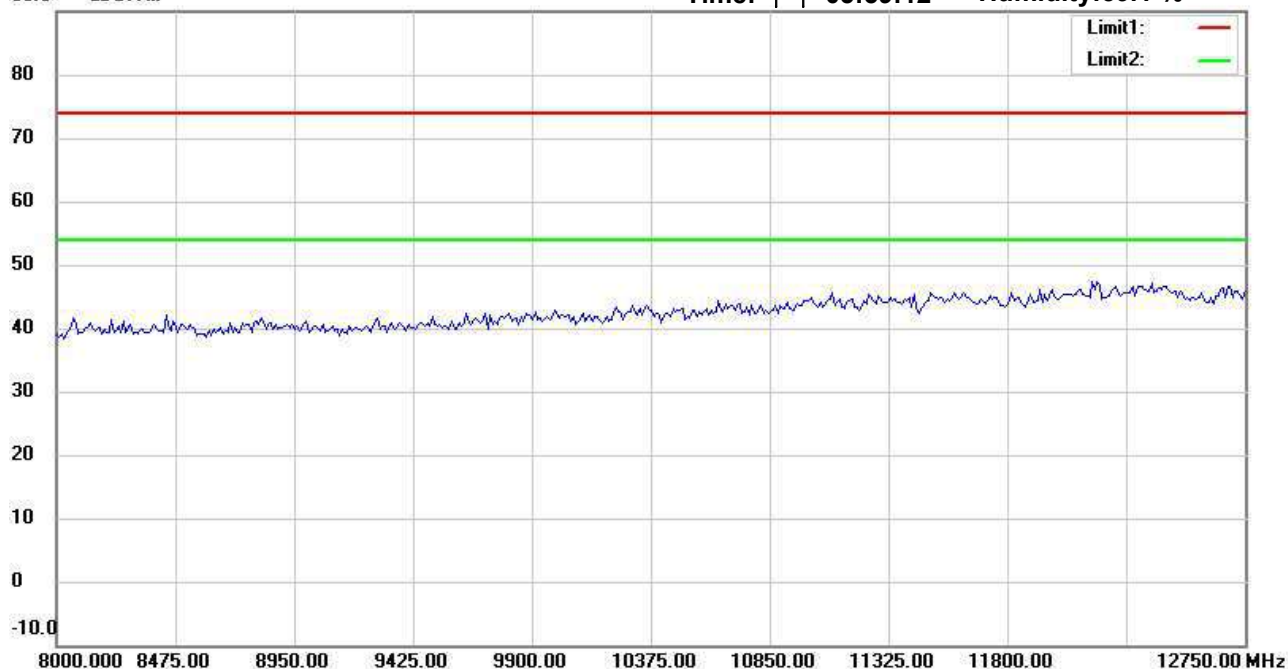
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:59:12

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2402 MHz

Note :

Polarization: Vertical

Power : 3.6 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: Sky

File :3

Data :#3

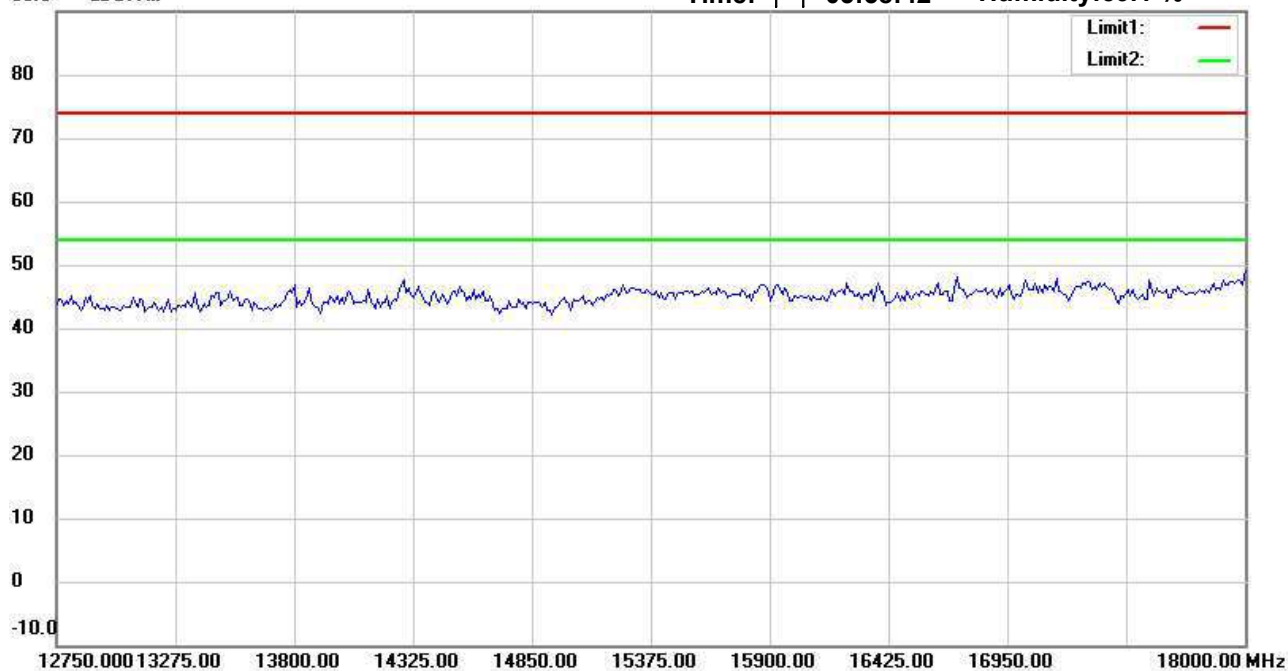
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:58:42

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2402 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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: Sky

File :3

Data :#7

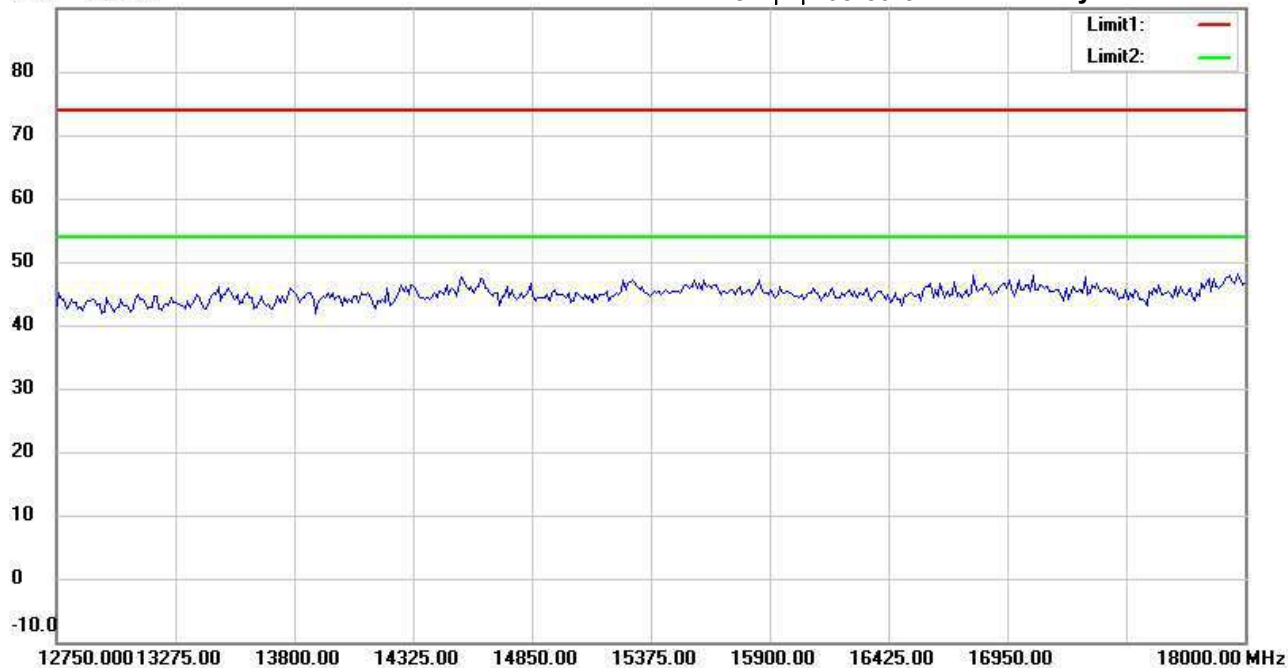
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:59:34

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2402 MHz

Note :

Polarization: Vertical

Power : 3.6 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: Sky

File :3

Data :#4

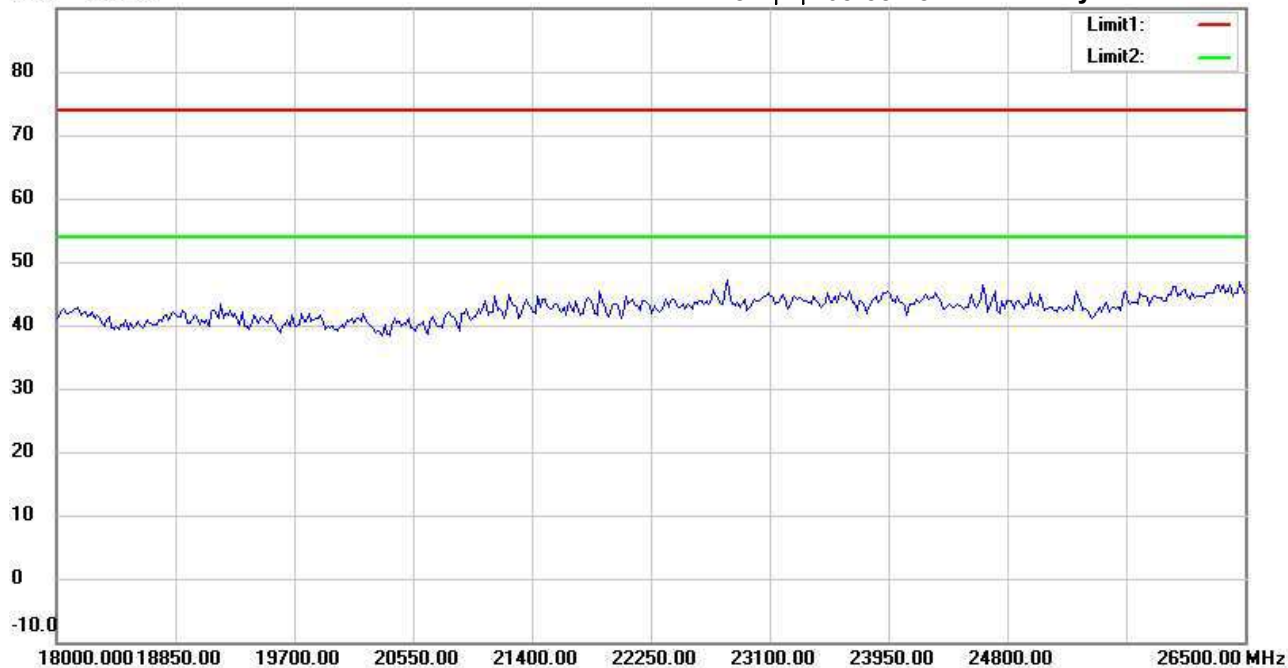
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:58:48

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2402 MHz

Note :

Polarization: Horizontal

Power : 3.6 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: Sky

File :3

Data :#8

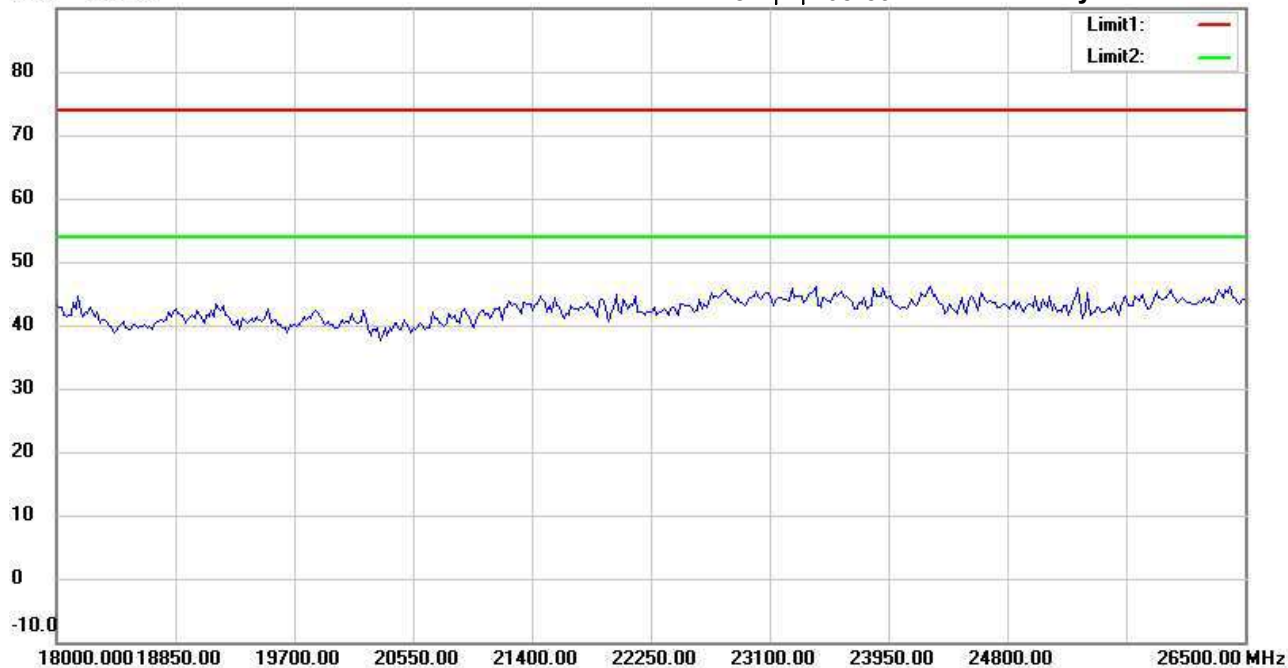
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 05:59:41

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2402 MHz

Note :

Polarization: **Vertical**

Power : 3.6 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: Sky

File :3

Data :#1

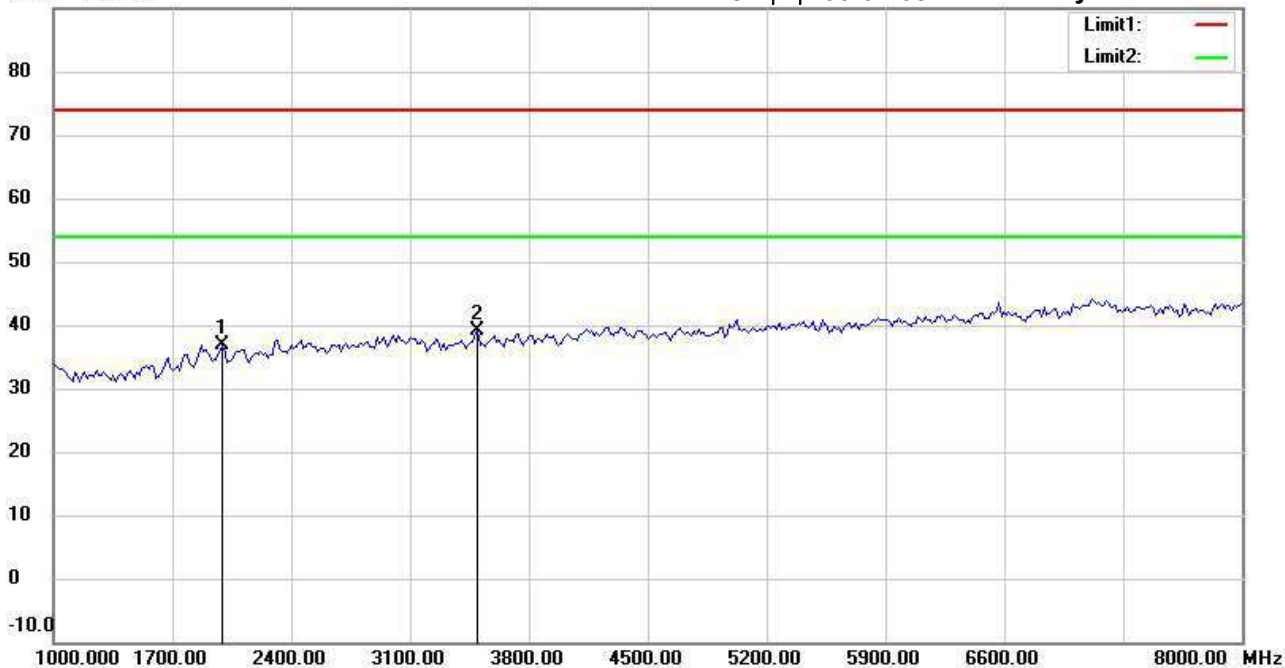
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 06:02:08

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2440 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 1995.992        | 43.29          | peak     | -6.29               | 37.00           | 74.00          | 150          | 255            | -37.00      |         |
| *   | 3496.994        | 42.27          | peak     | -3.26               | 39.01           | 74.00          | 150          | 7              | -34.99      |         |

\*: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: Sky

File :3

Data :#5

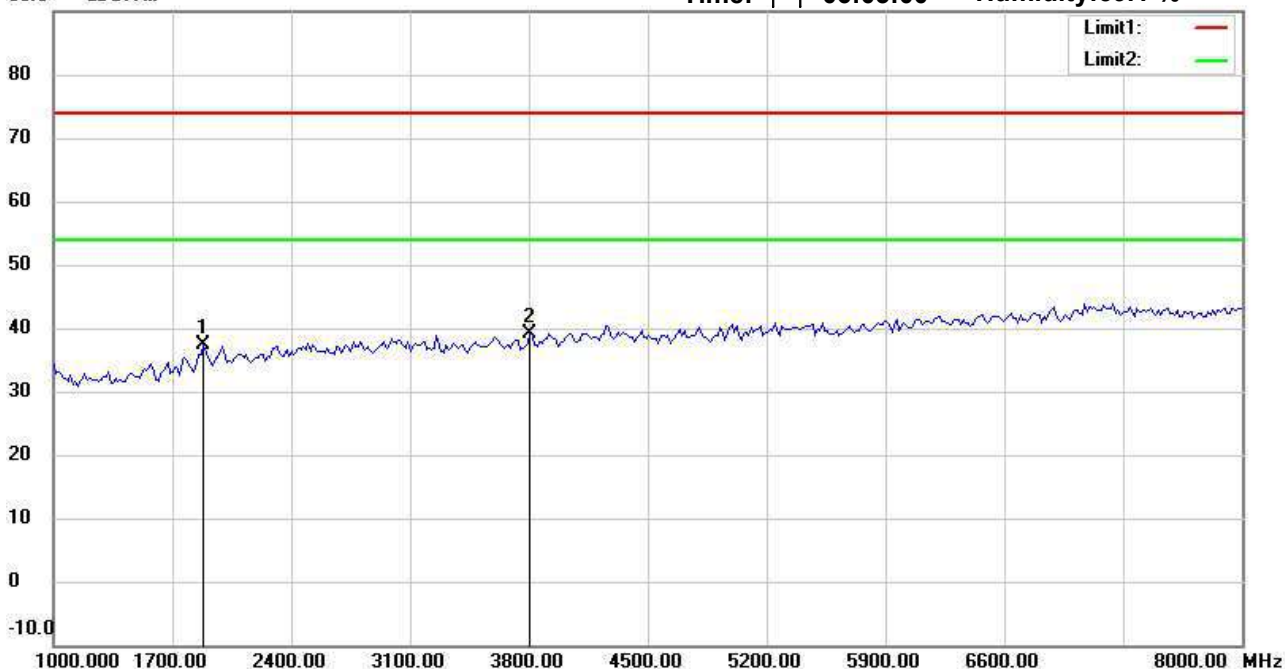
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 06:03:00

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2440 MHz

Note :

Polarization: **Vertical**

Power : 3.6 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 1883.767        | 43.84          | peak     | -6.58               | 37.26           | 74.00          | 150          | 201            | -36.74      |         |
| *   | 3805.611        | 41.97          | peak     | -2.83               | 39.14           | 74.00          | 150          | 77             | -34.86      |         |

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



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#2

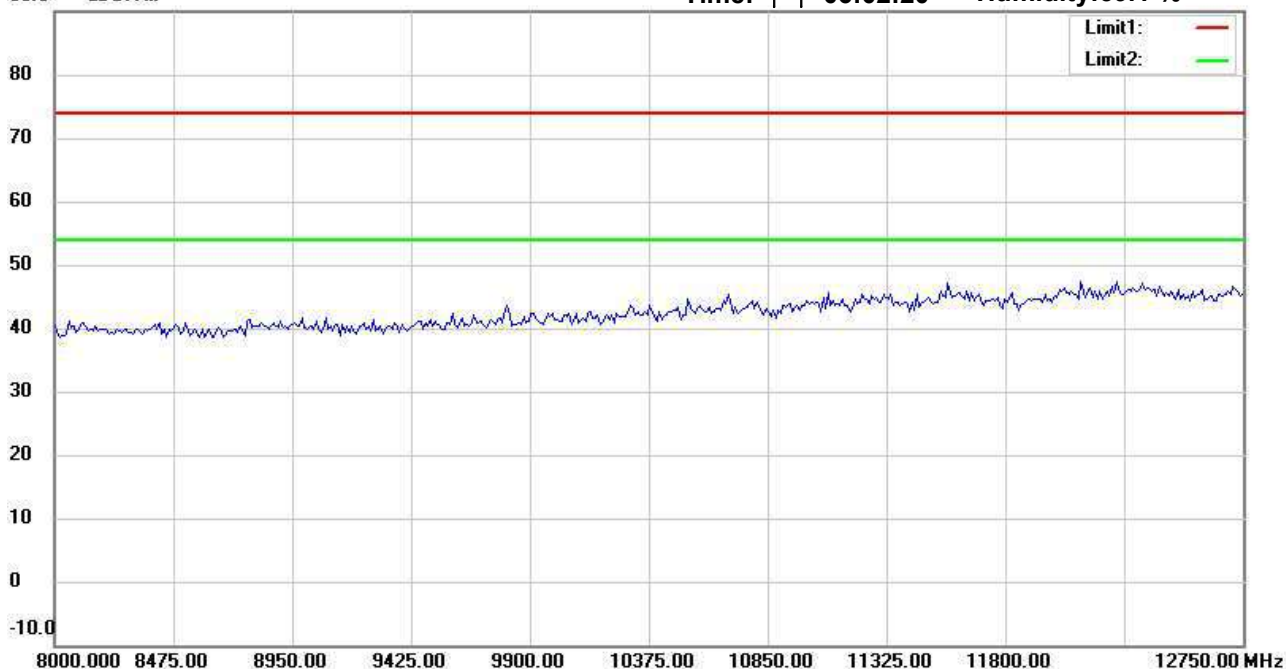
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 06:02:20

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2440 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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: Sky

File :3

Data :#6

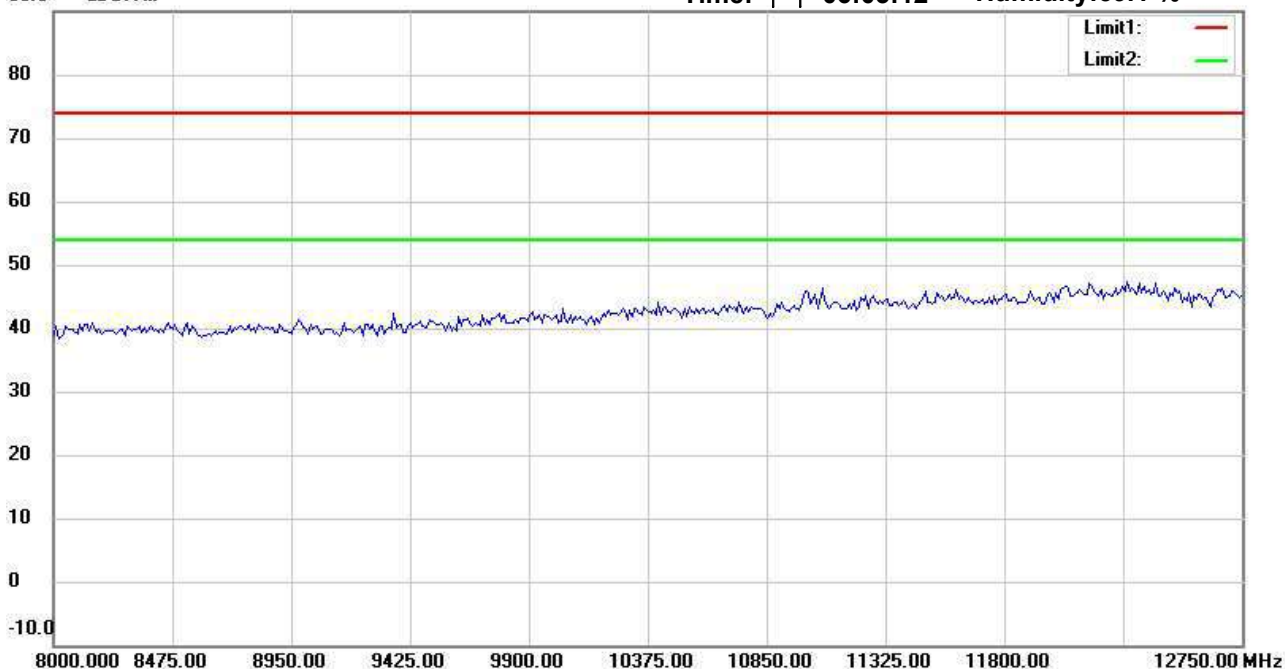
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 06:03:12

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2440 MHz

Note :

Polarization: Vertical

Power : 3.6 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: Sky

File : 3

Data : #3

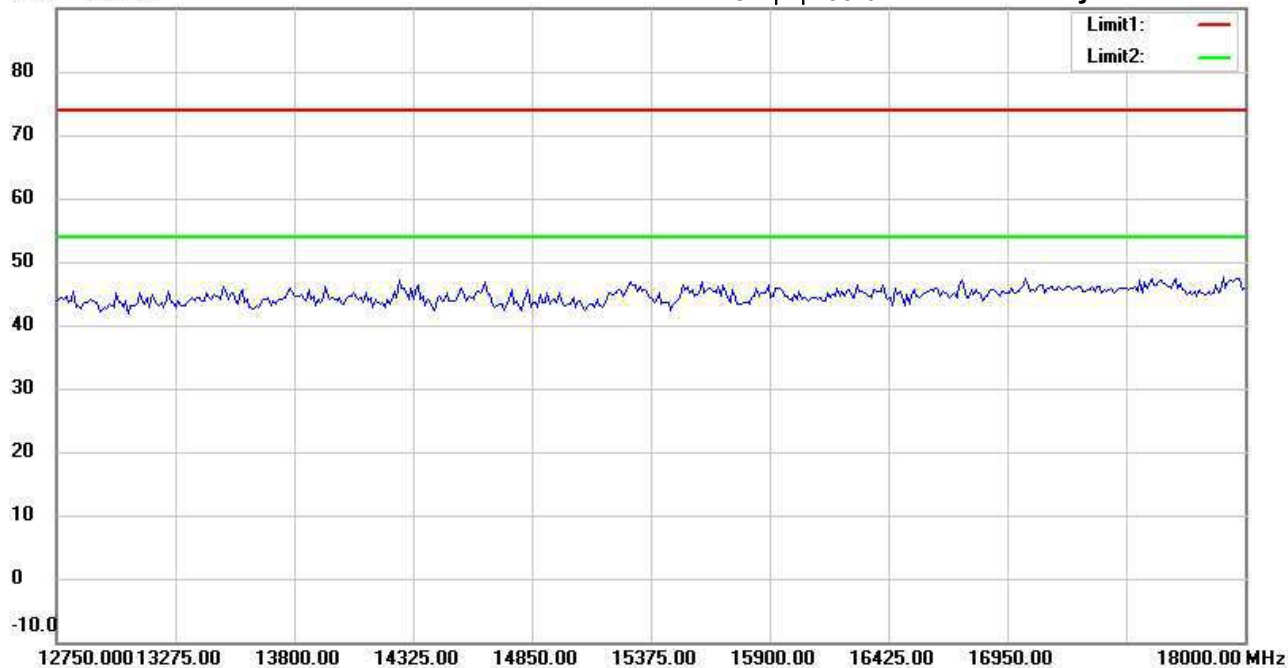
Date: 2023/12/13

Temperature: 24.3 °C

Time: 下午 06:02:41

Humidity: 59.1 %

90.0 dBuV/m



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2440 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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: Sky

File :3

Data :#7

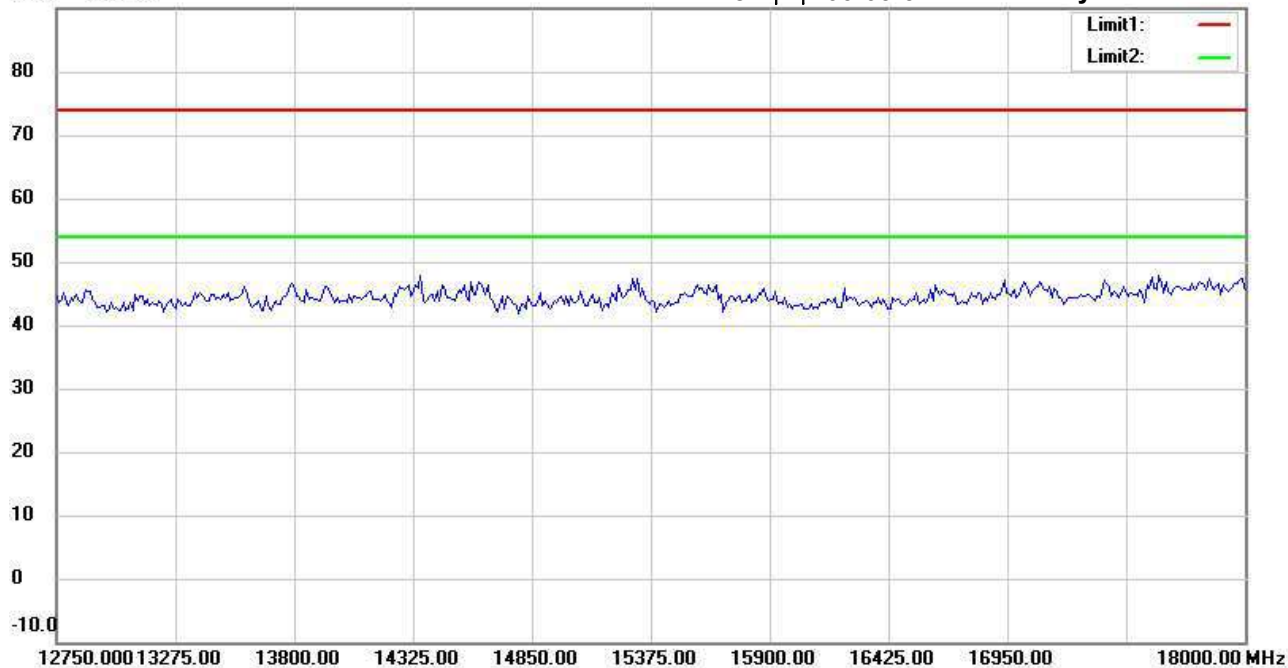
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 06:03:34

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2440 MHz

Note :

Polarization: Vertical

Power : 3.6 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:+886-2-6606-8875

# Radiated Emission Measurement

Operator: Sky

File :3

Data :#4

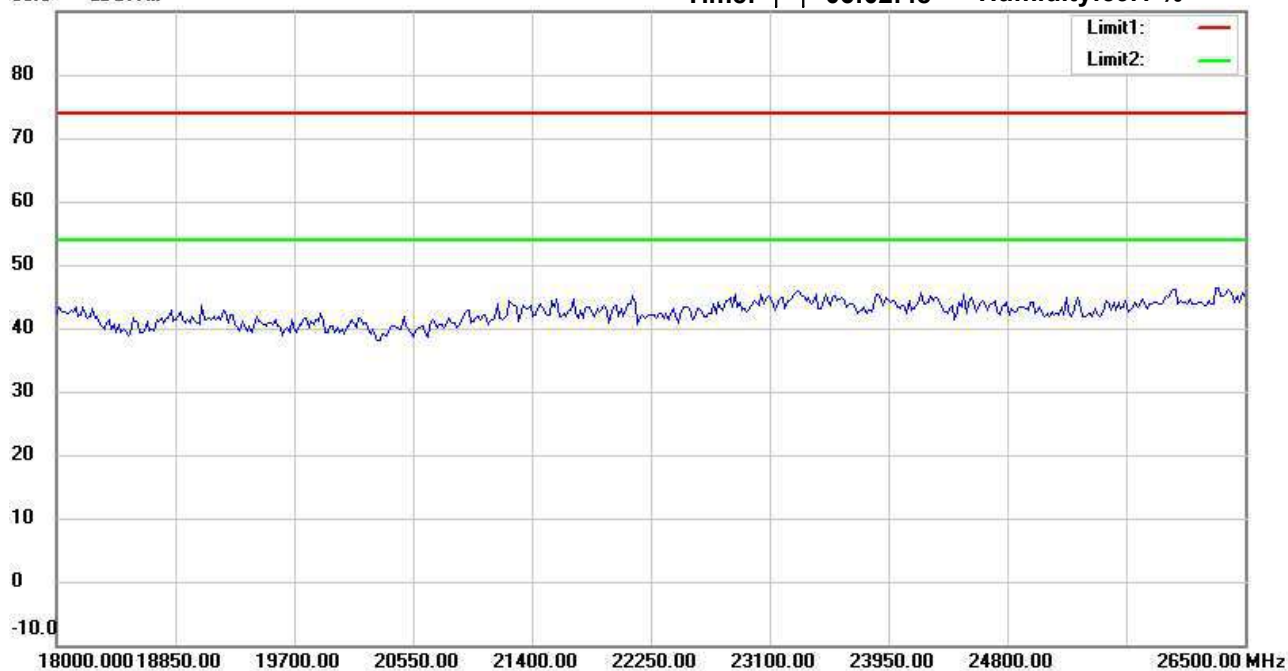
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 06:02:48

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2440 MHz

Note :

Polarization: Horizontal

Power : 3.6 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: Sky

File :3

Data :#8

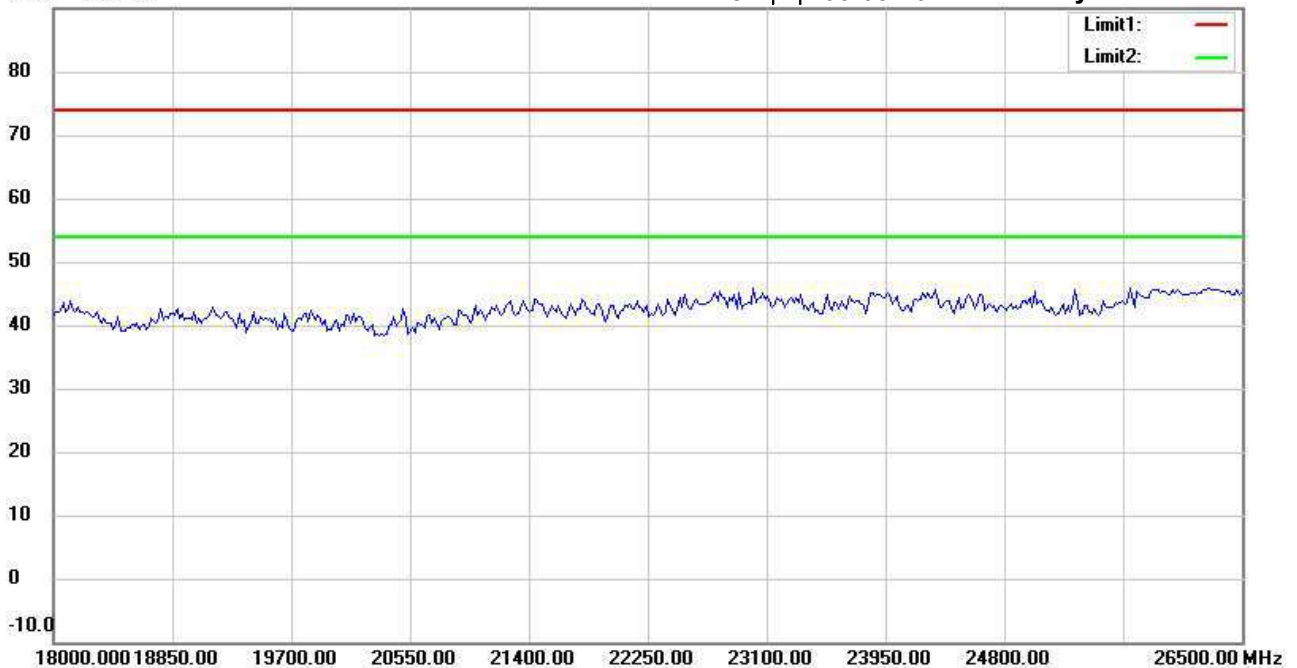
Date: 2023/12/13

Temperature:24.3 °C

Time: 下午 06:03:40

Humidity:59.1 %

90.0 dBuV/m



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2440 MHz

Note :

Polarization: **Vertical**

Power : 3.6 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: Sky

File : 3

Data : #1

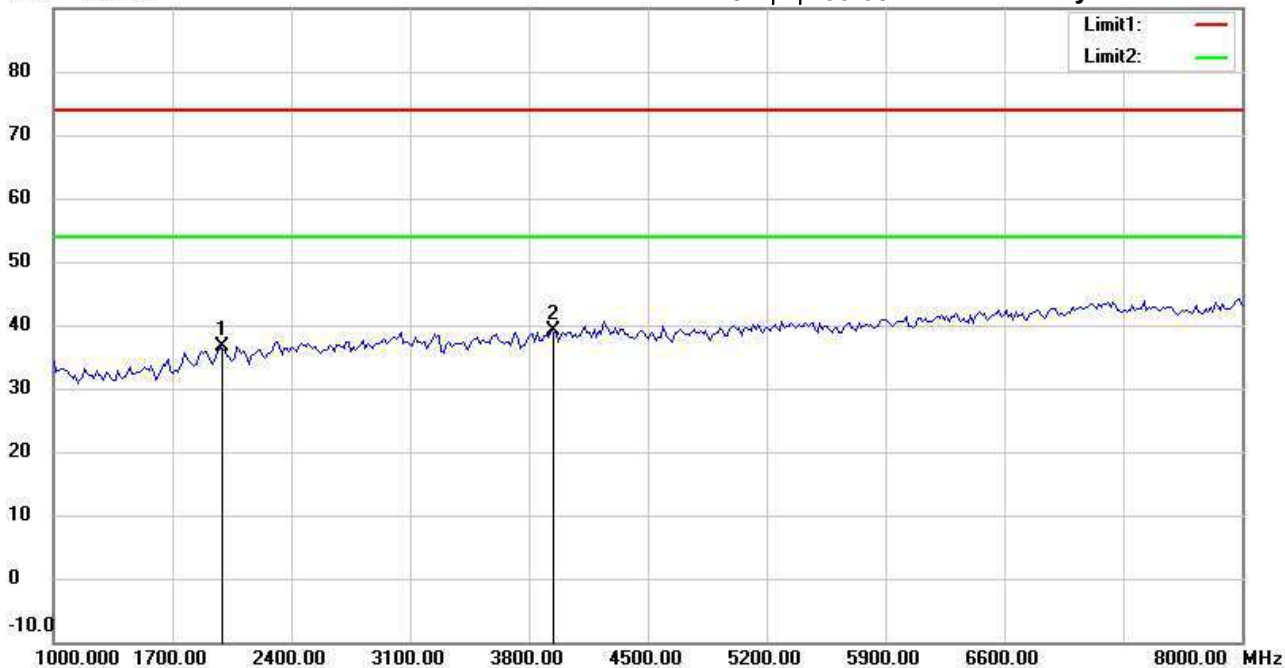
Date: 2023/12/13

Temperature: 24.3 °C

90.0 dBuV/m

Time: 下午 06:05:12

Humidity: 59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2480 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 1981.964        | 42.91          | peak     | -6.30               | 36.61           | 74.00          | 150          | 180            | -37.39      |         |
| *   | 3931.864        | 41.01          | peak     | -1.99               | 39.02           | 74.00          | 150          | 10             | -34.98      |         |

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



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# Radiated Emission Measurement

Operator: Sky

File :3

Data :#5

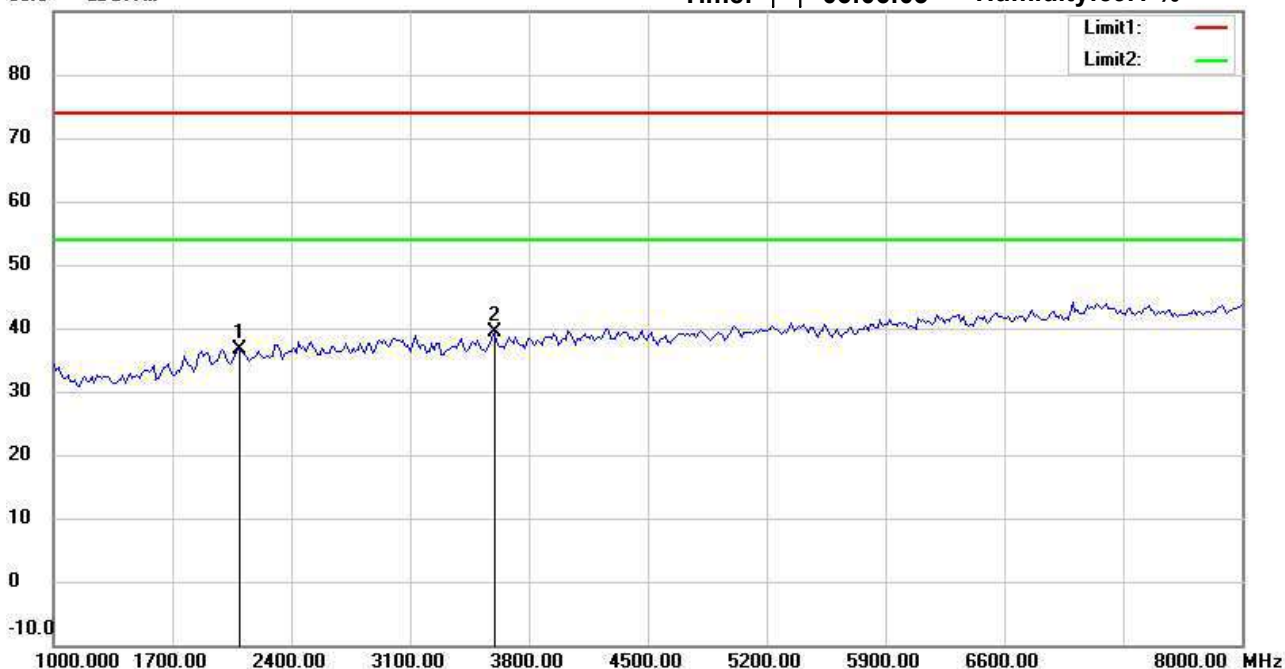
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 06:06:03

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2480 MHz

Note :

Polarization: **Vertical**

Power : 3.6 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 2094.188        | 43.00          | peak     | -6.33               | 36.67           | 74.00          | 150          | 201            | -37.33      |         |
| *   | 3595.190        | 41.91          | peak     | -2.63               | 39.28           | 74.00          | 150          | 33             | -34.72      |         |

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



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# Radiated Emission Measurement

Operator: Sky

File :3

Data :#2

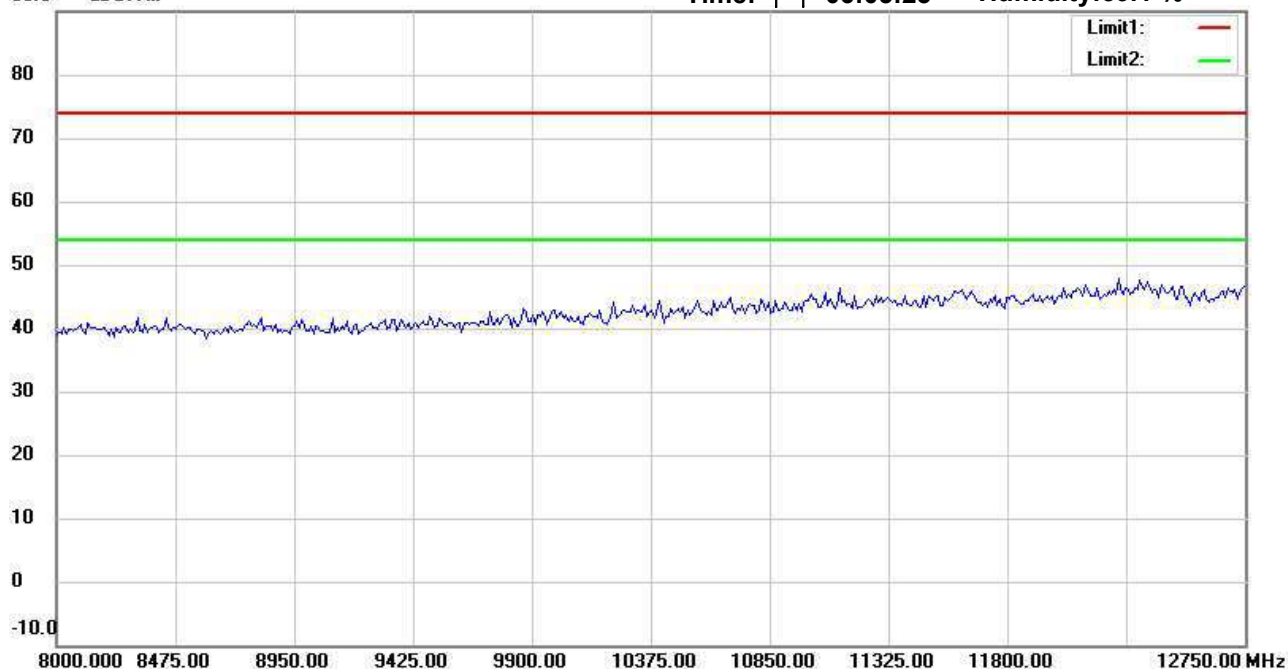
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 06:05:23

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2480 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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: Sky

File :3

Data :#6

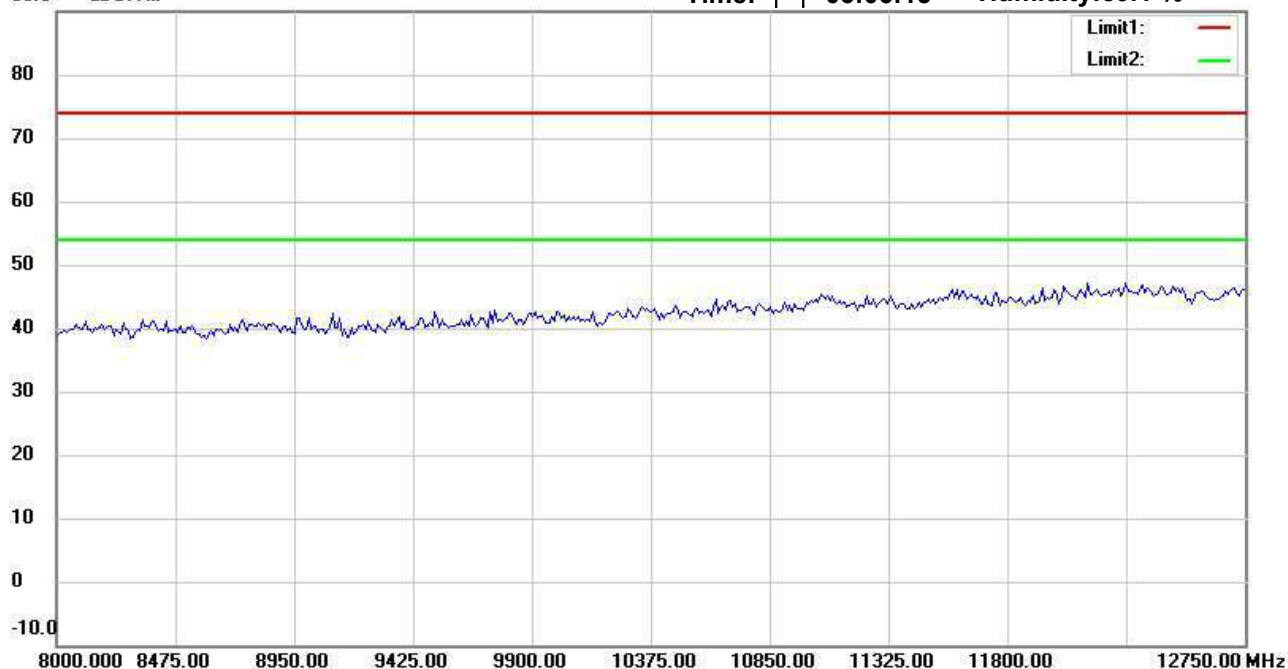
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 06:06:15

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2480 MHz

Note :

Polarization: Vertical

Power : 3.6 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: Sky

File : 3

Data : #3

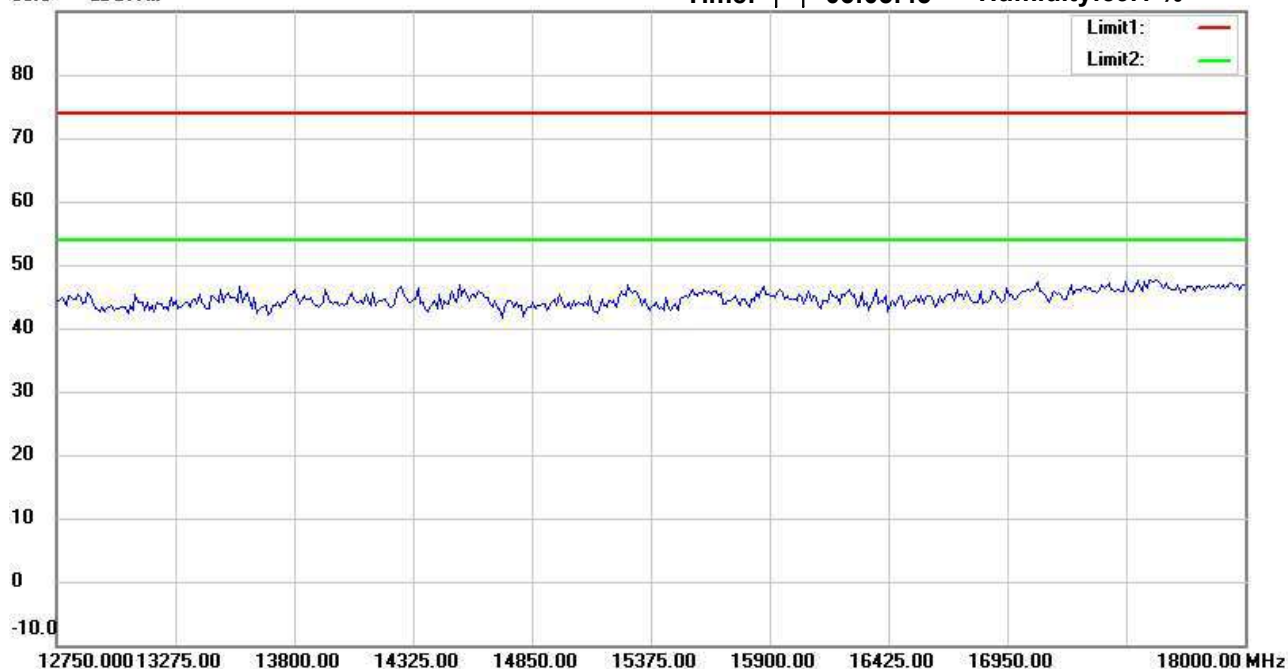
Date: 2023/12/13

Temperature: 24.3 °C

90.0 dBuV/m

Time: 下午 06:05:45

Humidity: 59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2480 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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: Sky

File :3

Data :#7

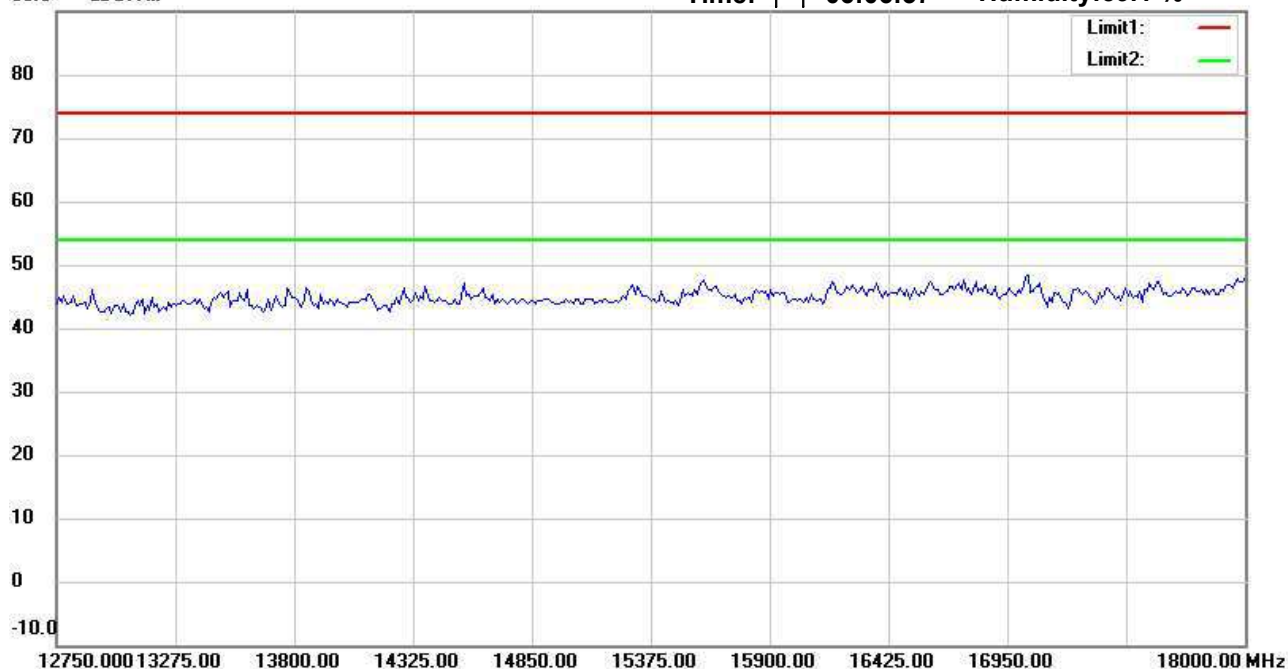
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 06:06:37

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2480 MHz

Note :

Polarization: **Vertical**

Power : 3.6 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: Sky

File :3

Data :#4

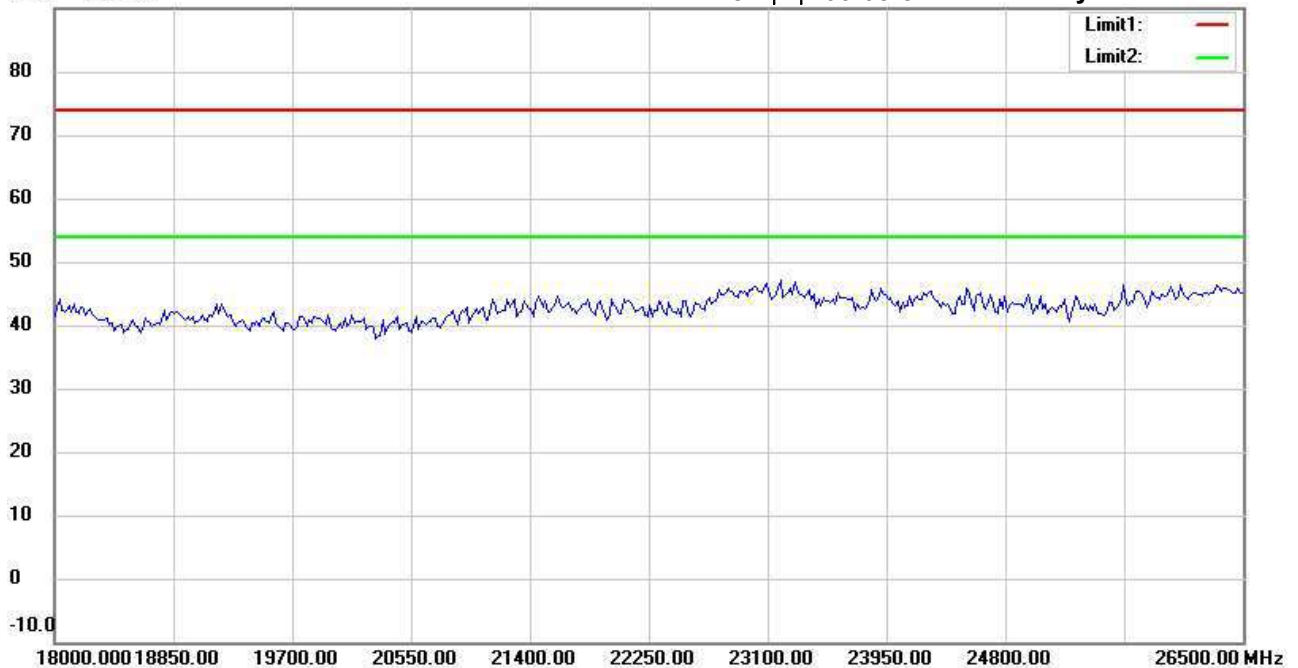
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 06:05:51

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2480 MHz

Note :

Polarization: Horizontal

Power : 3.6 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: Sky

File :3

Data :#8

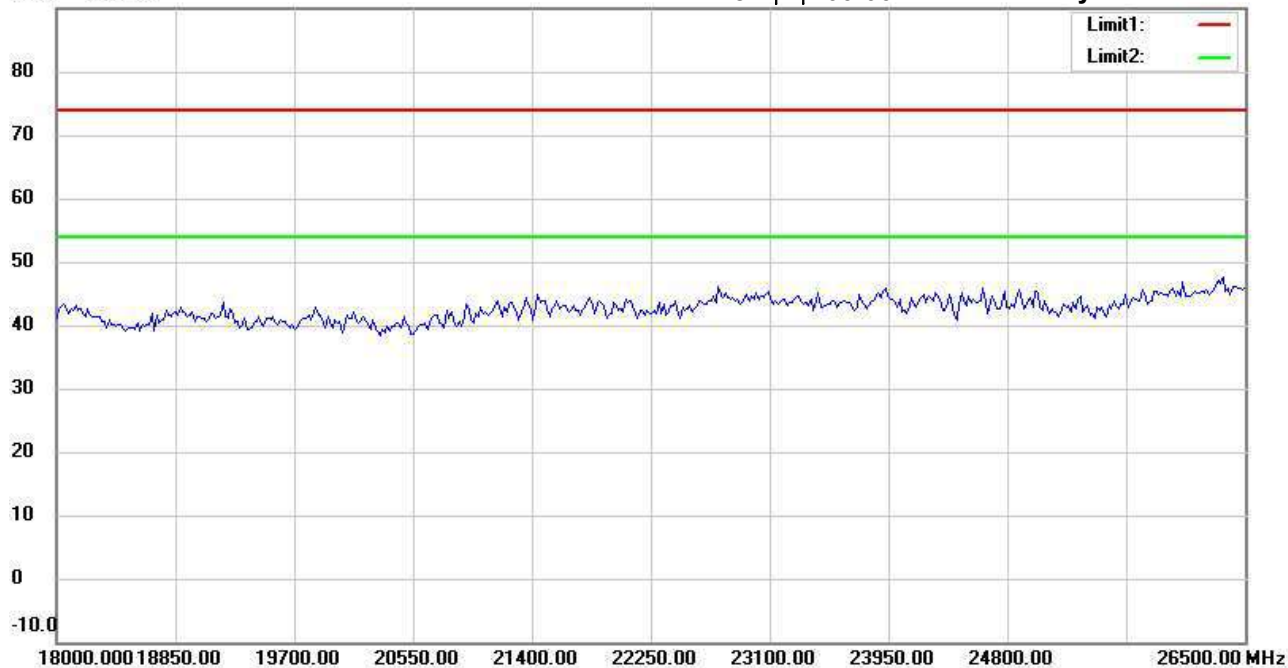
Date: 2023/12/13

Temperature:24.3 °C

90.0 dBuV/m

Time: 下午 06:06:44

Humidity:59.1 %



Site : Chamber

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

EUT : W6M22312-23129

M/N:

Test Mode : RX 2480 MHz

Note :

Polarization: **Vertical**

Power : 3.6 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