

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

**for**

**Frontpoint Hub**

**Model No.: FPHUB3.1**

**FCC ID: GX9FPHUB3-1**

**of**

**Applicant: CLIMAX TECHNOLOGY CO., LTD.**

**Address: No. 258, Sinhu 2nd Rd., Neihu District  
Taipei City 114 Taiwan (R.O.C.)**

**Tested and Prepared**

**by**

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

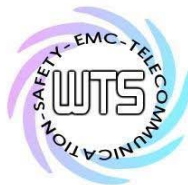
**FCC Registration No.: TW1477, TW1072**

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



**Report No.: W6R22112-21431-C-9**

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.  
TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: [wtls@wtls-lab.com](mailto:wtls@wtls-lab.com)

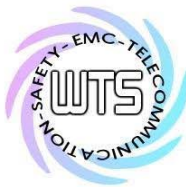


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## **1 General Information**

### **1.1 Notes**

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

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

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

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems. The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

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

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

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

### **Tester:**

December 24, 2021

Sora Kuo

*Sora*

Date

WTS-Lab.

Name

Signature

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

December 24, 2021

Kevin Wang

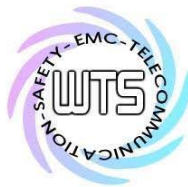
*Kevin Wang*

Date

WTS

Name

Signature



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

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## **1.2 Testing laboratory**

### **1.2.1 Location**

OATS

No.5-1, Lishui, Shuang Sing Village,

Wanli Dist., New Taipei City 207,

Taiwan (R.O.C.)

3 meter semi-anechoic chamber

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

TEL:886-2-6613-0228

FAX:886-2-2791-5046

Company

Worldwide Testing Services(Taiwan) Co., Ltd.

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

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

Tel : 886-2-66068877

Fax : 886-2-66068879

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

Accredited testing laboratory

FCC filed test laboratory Reg. No. TW1477, TW1072

Industry Canada filed test laboratory Reg. No. 20037

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

Name: ./.

Accredited number: ./.

Street: ./.

Town: ./.

Country: ./.

Telephone: ./.

Fax: ./.

## **1.3 Details of approval holder**

Name: CLIMAX TECHNOLOGY CO., LTD.

Street: No. 258, Sinhu 2nd Rd., Neihu District

City: Taipei City 114

Country: Taiwan (R.O.C.)

Telephone: +886-2-2794-0001

Fax: +886-2-2792-6618

## **1.4 Application details**

Date of receipt of test item(1st): May 29, 2018

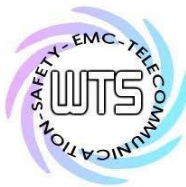
Date of test(1st): from May 29, 2018 to June 07, 2018

Date of receipt of test item(2nd): April 26, 2021

Date of test(2nd): from April 27, 2021 to May 05, 2021

Date of receipt of test item(3rd): December 07, 2021

Date of test(3rd): from December 08, 2021 to December 20, 2021



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

Type of test item: Frontpoint Hub

Model Number: FPHUB3.1

Multi-listing model number: ./.

Photos: see Annex

### **Technical data**

Frequency band: 902-928 MHz

Operation Frequency: 908.41 MHz

Operation modes: Half-duplex

Modulation Type: GFSK

Antenna type: PCB antenna

Power supply: Adaptor (I/P: 100-240V~ 50/60Hz, 0.8A; O/P: 12V, 1.5A)  
Battery 7.2V, 2300mAh

### **Manufacturer: (if different from applicant)**

Name: ./.

Street: ./.

Town: ./.

Country: ./.

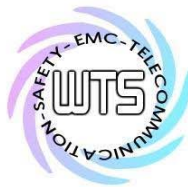
Additional information: ./.

## **1.6 Test standards**

Technical standard : 47 CFR PART 15 SUBPART C § 15.249 (2020-10)

### **Special statement**

1. This test report is based on the original test report no.: W6R22104-20827-C-9.
2. The relevant Circuitry, PCB Layout, Inner element, appearance and Function is exactly the same as the one in original test report. The differences are the model number, multi-listing model number, test item of conducted item has been retested and version of test standard. Therefore the other test result is also based on the original test report no. W6R22104-20827-C-9 without retesting.



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## **2 Technical test**

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

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

**or**

The deviations as specified in 2.5 were ascertained in the course of the tests performed. ☐

### **2.2 Test environment**

Relative humidity content: 20 ... 75 %

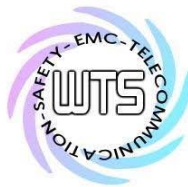
Air pressure: 86 ... 103 kPa

Details Power supply: Adaptor (I/P: 100-240V~ 50/60Hz, 0.8A; O/P: 12V, 1.5A)  
Battery 7.2V, 2300mAh

Extreme conditions parameters: Not required

| Test item Name                                                                                                                                                                                                                                                          | Uncertainty                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Estimation Result of Uncertainty of Conducted Emission<br>(Power Line Conducted Emission)                                                                                                                                                                               | Expanded Uncertainty :<br>AMN : 1.05 dB<br>Voltage probe : 1.05 dB                                                     |
| Estimation Result of Uncertainty of Radiated Emission(3M)<br>(Peak Output Power (transmitter), Equivalent isotropic radiated power, RF Exposure Compliance Requirements, Out of Band Radiated Emissions, Spurious emission (tx), Radiated Emissions from Receiver Part) | Expanded Uncertainty :<br>0.009-30 MHz : 2.13 dB<br>30-1000 MHz : 3.53 dB<br>1-18 GHz : 4.19 dB<br>18-40 GHz : 4.09 dB |
| Estimation Result of Uncertainty of Band Edge Measurement<br>(Radiated Emission on the band edge)                                                                                                                                                                       | Expanded Uncertainty : 1.33 dBc                                                                                        |
| Estimation Result of Uncertainty of Bandwidth Measurement<br>(Occupied Bandwidth)                                                                                                                                                                                       | Expanded Uncertainty : 0.41 kHz                                                                                        |

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



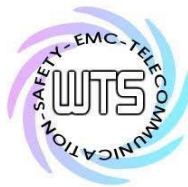
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## 2.3 Test Equipment List

| No.          | Test equipment                                     | Type            | Serial No.  | Manufacturer | Cal. Date     | Next Cal. Date |
|--------------|----------------------------------------------------|-----------------|-------------|--------------|---------------|----------------|
| ETSTW-CE 001 | EMI TEST RECEIVER                                  | ESHS10          | 842121/013  | R&S          | 2021/6/17     | 2022/6/16      |
| ETSTW-CE 003 | AC POWER SOURCE                                    | APS-9102        | D161137     | GW           | Function Test |                |
| ETSTW-CE 004 | ZWEILEITER-V-NETZNACHBILDUNG<br>TWO-LINE V-NETWORK | ESH3-Z5         | 840731/011  | R&S          | 2021/11/9     | 2022/11/8      |
| ETSTW-CE 006 | IMPULSBEGRENZER<br>PULSE LIMITER                   | ESH3-Z2         | 100226      | R&S          | 2021/9/22     | 2022/9/21      |
| ETSTW-CE 008 | HF-EICHLITUNG RF<br>STEP ATTENUATOR<br>139dB DPSP  | 334.6010.02     | 844581/024  | R&S          | Function Test |                |
| ETSTW-CE 009 | TEMP.&HUMIDITY<br>CHAMBER                          | GTH-225-40-1P-U | MAA0305-009 | GIANT FORCE  | 2021/7/29     | 2022/7/28      |
| ETSTW-CE 016 | TWO-LINE V-NETWORK                                 | ENV216          | 100050      | R&S          | 2021/11/8     | 2022/11/7      |
| ETSTW-CE 028 | MXE EMI Receiver                                   | N9038A          | MY53220110  | Agilent      | 2021/7/28     | 2022/7/27      |
| ETSTW-RE 003 | EMI TEST RECEIVER                                  | ESI 26          | 831438/001  | R&S          | 2021/6/17     | 2022/6/16      |
| ETSTW-RE 004 | EMI TEST RECEIVER                                  | ESI 40          | 832427/004  | R&S          | 2021/9/28     | 2022/9/27      |
| ETSTW-RE 012 | TUNABLE BANDREJECT<br>FILTER                       | D.C 0309        | 146         | K&L          | Function Test |                |
| ETSTW-RE 013 | TUNABLE BANDREJECT<br>FILTER                       | D.C 0336        | 397         | K&L          | Function Test |                |
| ETSTW-RE 018 | MICROWAVE HORN<br>ANTENNA                          | AT4560          | 27212       | AR           | 2021/8/4      | 2022/8/3       |
| ETSTW-RE 019 | MICROWAVE HORN<br>ANTENNA                          | 22240-25        | 121074      | FM           | 2021/5/31     | 2022/5/30      |
| ETSTW-RE 027 | Passive Loop Antenna                               | 6512            | 00034563    | ETS-Lindgren | 2021/6/16     | 2022/6/15      |
| ETSTW-RE 030 | Double-Ridged Guide Horn<br>Antenna                | 3117            | 00035224    | ETS-Lindgren | 2021/5/5      | 2022/5/4       |
| ETSTW-RE 042 | Biconical Antenna                                  | HK116           | 100172      | R&S          | 2021/3/18     | 2022/3/17      |
| ETSTW-RE 043 | Log-Periodic Dipole<br>Antenna                     | HL223           | 100166      | R&S          | 2021/5/21     | 2022/5/20      |
| ETSTW-RE 044 | Log-Periodic Antenna                               | HL050           | 100094      | R&S          | 2021/7/14     | 2022/7/13      |
| ETSTW-RE 045 | ESA-E SERIES<br>SPECTRUM ANALYZER                  | E4404B          | MY45111242  | Agilent      | Pre-test Use  |                |
| ETSTW-RE 050 | Attenuator 10dB                                    | 50HF-010-1      | None        | JFW          | 2021/2/19     | 2022/2/18      |
| ETSTW-RE 051 | Attenuator 6dB                                     | 50HF-006-1      | None        | JFW          | 2021/2/19     | 2022/2/18      |
| ETSTW-RE 053 | Attenuator 3dB                                     | 50HF-003-1      | None        | JFW          | 2021/2/19     | 2022/2/18      |
| ETSTW-RE 055 | SPECTRUM ANALYZER                                  | FSU 26          | 200074      | R&S          | 2021/3/16     | 2022/3/15      |
| ETSTW-RE 060 | Attenuator 30dB                                    | 5015-30         | F651012z-01 | ATM          | 2021/2/19     | 2022/2/18      |
| ETSTW-RE 062 | Amplifier Module                                   | CHC 2           | None        | KMIC         | 2021/5/14     | 2022/5/13      |
| ETSTW-RE 064 | Bluetooth Test Set                                 | MT8852B-042     | 6K00005709  | Anritsu      | Function Test |                |
| ETSTW-RE 069 | Double-Ridged Guide Horn<br>Antenna                | 3117            | 00069377    | ETS-Lindgren | Function Test |                |
| ETSTW-RE 072 | CELL SITE TEST SET                                 | 8921A           | 3339A00375  | HP           | 2021/10/27    | 2022/10/26     |
| ETSTW-RE 088 | SOLID STATE<br>AMPLIFIER                           | KMA180265A01    | 99057       | KMIC         | 2021/9/17     | 2022/9/16      |
| ETSTW-RE 091 | Match Pad                                          | MDCS1500        | None        | WOKEN        | 2021/5/27     | 2022/5/26      |
| ETSTW-RE 099 | DC Block                                           | 50DB-007-1      | None        | JFW          | 2021/2/19     | 2022/2/18      |

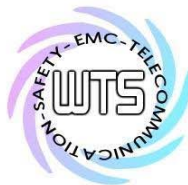


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|                 |                                      |                                        |                 |                    |                  |            |
|-----------------|--------------------------------------|----------------------------------------|-----------------|--------------------|------------------|------------|
| ETSTW-RE 112    | AC POWER SOURCE                      | TFC-1005                               | T-0A023536      | T-Power            | Function test    |            |
| ETSTW-RE 115    | 2.4GHz Notch Filter                  | N0124411                               | 473874          | MICROWAVE CIRCUITS | 2021/1/6         | 2022/1/5   |
| ETSTW-RE 120    | RF Player                            | MP9200                                 | MP9210-111022   | ADIVIC             | 2021/10/29       | 2022/10/28 |
| ETSTW-RE 122    | SIGNAL GENERATOR                     | SMF100A                                | 102149          | R&S                | 2021/6/8         | 2022/6/7   |
| ETSTW-RE 125    | 5GHz Notch filter                    | 5NSL11-5200/E221.3-O/O                 | 1               | K&L Microwave      | 2021/8/6         | 2022/8/5   |
| ETSTW-RE 126    | 5GHz Notch filter                    | 5NSL12-5800/E221.3-O/O                 | 1               | K&L Microwave      | 2021/8/6         | 2022/8/5   |
| ETSTW-RE 127    | RF Switch Box                        | RFS-01                                 | None            | WTS                | 2021/2/19        | 2022/2/18  |
| ETSTW-RE 128    | 5.3GHz Notch filter                  | N0153001                               | SN487233        | Microwave Circuits | 2021/8/6         | 2022/8/5   |
| ETSTW-RE 129    | 5.5GHz Notch filter                  | N0555984                               | SN487234        | Microwave Circuits | 2021/8/6         | 2022/8/5   |
| ETSTW-RE 130    | Handheld RF Spectrum Analyzer        | N9340A                                 | CN0147000204    | Agilent            | Pre-test Use     |            |
| ETSTW-RE 142    | Amplifier                            | 8447D                                  | 2805A03378      | Agilent            | 2021/5/14        | 2022/5/13  |
| ETSTW-RE 146    | Preamplifier                         | JPA-10MIG                              | 15090004        | JPT                | 2021/6/4         | 2022/6/3   |
| ETSTW-RE 152    | Bi-log Hybrid Antenna                | MCTD 2786B                             | BLB20J04029     | ETC                | 2021/10/5        | 2022/10/4  |
| ETSTW-RE 153    | Signal Analyzer                      | FSV40                                  | 101929          | R&S                | 2021/10/6        | 2022/10/5  |
| ETSTW-RE 159    | Bi-log Hybrid Antenna (30M~1000 MHz) | MCTD 2786B                             | BLB21N04035     | ETC                | 2021/12/06       | 2022/12/05 |
| ETSTW-RF 002    | Electromagnetic field probe          | LF-30                                  | K-0007          | STT                | 2021/7/19        | 2022/7/18  |
| ETSTW-EMI 011   | USB Compact Modulator                | SFC-U                                  | 101689          | R&S                | 2021/6/2         | 2022/6/1   |
| ETSTW-GSM 002   | Universal Radio Communication Tester | CMU 200                                | 109439          | R&S                | 2021/3/16        | 2022/3/15  |
| ETSTW-GSM 003   | Radio Communication Analyzer         | MT8820C                                | 6201342073      | Anritsu            | 2021/4/27        | 2022/4/26  |
| ETSTW-GSM 004   | Wideband Radio Communication Tester  | CMW500                                 | 128092          | R&S                | 2021/10/29       | 2022/10/28 |
| ETSTW-GSM 019   | Band Reject Filter                   | WRCTF824/849-822/851-40 /12+9SS        | 3               | WI                 | 2021/1/6         | 2022/1/5   |
| ETSTW-GSM 020   | Band Reject Filter                   | WRCD1747/1748-1743/1752-32/5SS         | 1               | WI                 | 2021/1/6         | 2022/1/5   |
| ETSTW-GSM 021   | Band Reject Filter                   | WRCD1879.5/1880.5-1875.5/1884.5-32/5SS | 3               | WI                 | 2021/1/6         | 2022/1/5   |
| ETSTW-GSM 022   | Band Reject Filter                   | WRCT901.9/903.1-904.25-50/8SS          | 1               | WI                 | 2021/1/6         | 2022/1/5   |
| ETSTW-GSM 023   | Power Divider                        | 4901.19.A                              | None            | SUHNER             | 2021/9/7         | 2022/9/6   |
| ETSTW-GSM 024   | Radio Communication Analyzer         | MT8821C                                | None            | Anritsu            | 2021/4/1         | 2022/3/31  |
| ETSTW-GSM 025   | Band Reject Filter                   | BRM19835                               | 001             | Micro-Tronics      | 2021/8/6         | 2022/8/5   |
| ETSTW-Cable 011 | SMA to N type Cable                  | RGU-400                                | None            | THERMAX            | Pre-test Use NCR |            |
| ETSTW-Cable 016 | BNC Cable                            | Switch Box                             | B Cable 1       | Schwarz beck       | 2021/2/19        | 2022/2/18  |
| ETSTW-Cable 017 | BNC Cable                            | X Cable                                | B Cable 2       | Schwarz beck       | 2021/2/19        | 2022/2/18  |
| ETSTW-Cable 018 | BNC Cable                            | Y Cable                                | B Cable 3       | Schwarz beck       | 2021/2/19        | 2022/2/18  |
| ETSTW-Cable 019 | BNC Cable                            | Z Cable                                | B Cable 4       | Schwarz beck       | 2021/2/19        | 2022/2/18  |
| ETSTW-Cable 020 | N TYPE Cable                         | OATS Cable 1                           | N30N30-L335-15M | JYE BAO CO.,LTD.   | 2021/7/1         | 2022/6/30  |
| ETSTW-Cable 027 | Microwave Cable                      | SUCOFLEX 104                           | 279083          | HUBER+SUHNER       | 2021/5/7         | 2022/5/6   |
| ETSTW-Cable 028 | Microwave Cable                      | FA147A0015M2020                        | 30064-2         | UTIFLEX            | 2021/9/17        | 2022/9/16  |
| ETSTW-Cable 029 | Microwave Cable                      | FA147A0015M2020                        | 30064-3         | UTIFLEX            | 2021/9/17        | 2022/9/16  |

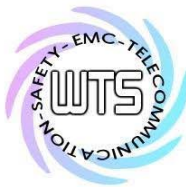


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|                 |                          |                               |          |              |                                       |            |
|-----------------|--------------------------|-------------------------------|----------|--------------|---------------------------------------|------------|
| ETSTW-Cable 030 | Microwave Cable          | SUCOFLEX 104<br>( S Cable 9 ) | 279067   | HUBER+SUHNER | 2021/2/19                             | 2022/2/18  |
| ETSTW-Cable 043 | Microwave Cable          | SUCOFLEX 104                  | 317576   | HUBER+SUHNER | 2021/5/14                             | 2022/5/13  |
| ETSTW-Cable 047 | Microwave Cable          | SUCOFLEX 104                  | 325518   | HUBER+SUHNER | 2021/7/2                              | 2022/7/1   |
| ETSTW-Cable 058 | Microwave Cable          | SUCOFLEX 104                  | none     | HUBER+SUHNER | 2021/6/4                              | 2022/6/3   |
| ETSTW-Cable 064 | Microwave Cable          | SUCOFLEX 104                  | MY28891  | HUBER+SUHNER | 2021/5/14                             | 2022/5/13  |
| ETSTW-Cable 071 | N TYPE CABLE             | EMCCFD400-NM-<br>NM-25000     | 170239   | EMCI         | 2021/6/4                              | 2022/6/3   |
| ETSTW-Cable 072 | SMA type cable (8m)      | SUCOFLEX 104                  | 805800/4 | HUBER+SUHNER | 2021/5/14                             | 2022/5/13  |
| ETSTW-Cable 074 | SMA type cable (2m)      | SUCOFLEX 104                  | 802563/4 | HUBER+SUHNER | 2021/5/14                             | 2022/5/13  |
| WTSTW-SW 002    | EMI TEST SOFTWARE        | EZ_EMC                        | None     | Farad        | Version ETS-03A1<br>Version EMEC-3A1+ |            |
| WTSTW-SW 006    | EMI TEST SOFTWARE        | e3                            | None     | AUDIX        | Version 9.161014                      |            |
| WTSTW-SW 008    | Signal studio            | Agilent                       | None     | AUDIX        | Version 2.0.0.1                       |            |
| ETSTW-TH 002    | Thermohygrometer         | 608-H1                        | 45204317 | Testo        | 2021/10/18                            | 2022/10/17 |
| ETSTW-TH 003    | Wireless weather station | GAIA                          | N/A      | TFA          | 2021/10/18                            | 2022/10/17 |



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## **2.4 General Test Procedure**

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

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

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

Example:

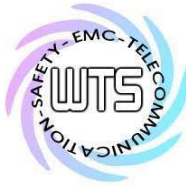
|            |                                                         |
|------------|---------------------------------------------------------|
| Freq (MHz) | METER READING + ACF + CABLE LOSS (to the receiver) = FS |
| 33         | 20 dBμV + 10.36 dB + 6 dB = 36.36 dBμV/m @3m            |

**ANSI STANDARD C63.10-2013 6.2.2 MEASUREMENT PROCEDURES:** The EUT was placed on a table 80 cm height and with dimensions of 1m by 1.5m (non metallic table). The EUT was placed in the centre of the table. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10<sup>th</sup> harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings.

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

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

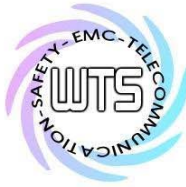


Registration number: W6R22112-21431-C-9  
FCC ID: GX9FPHUB3-1

**3 Test results (enclosure)**

| Test case                                                      | Para. Number | Required                            | Test passed                         | Test failed              |
|----------------------------------------------------------------|--------------|-------------------------------------|-------------------------------------|--------------------------|
| Out Power (Field Strength)                                     | 15.249 (a)   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Spurious Emissions radiated – Transmitter operating            | 15.249 (e)   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Spurious Emissions conducted – Transmitter operating           | 15.249 (e)   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |
| Radiated Emission from Digital Part                            | 15.109       | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |
| Out of Band Spurious Emission, Band edge-Transmitter operating | 15.249 (e)   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Power Line Conducted Emission                                  | 15.207       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

The following is intentionally left blank.



Registration number: W6R22112-21431-C-9

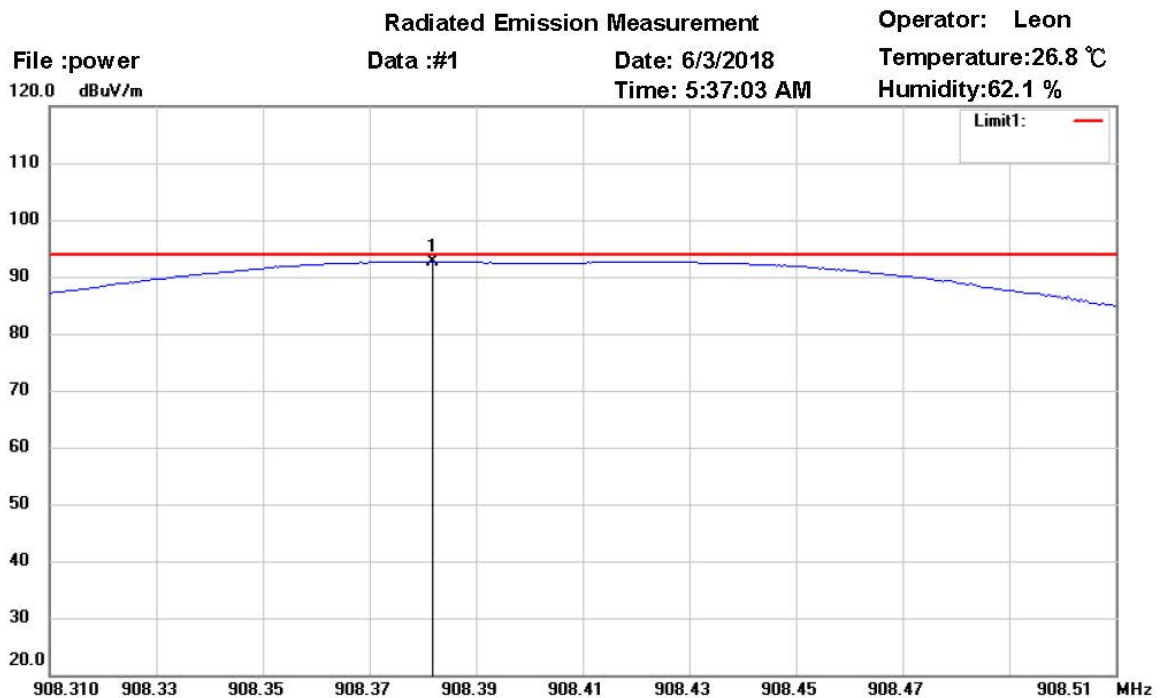
FCC ID: GX9FPHUB3-1

### 3.1 Out Power (Field Strength)

FCC Rule: 15.249 (b)

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

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



Site : Chamber

Condition : FCC 15.249 power(902-928)\_QP

EUT : W6R21805-18133

M/N:

Test Mode : TX 908.41MHz

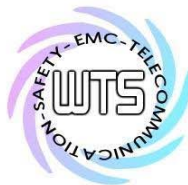
Note :

Polarization: *Horizontal*

Power : 120 Va.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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 908.3817        | 59.75          | QP       | 32.98               | 92.73           | 94.00          | 100          | 200            | -1.27       |         |



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

Registration number: W6R22112-21431-C-9

FCC ID: GX9FPHUB3-1

## Radiated Emission Measurement

Operator: Leon

File :power

Data :#2

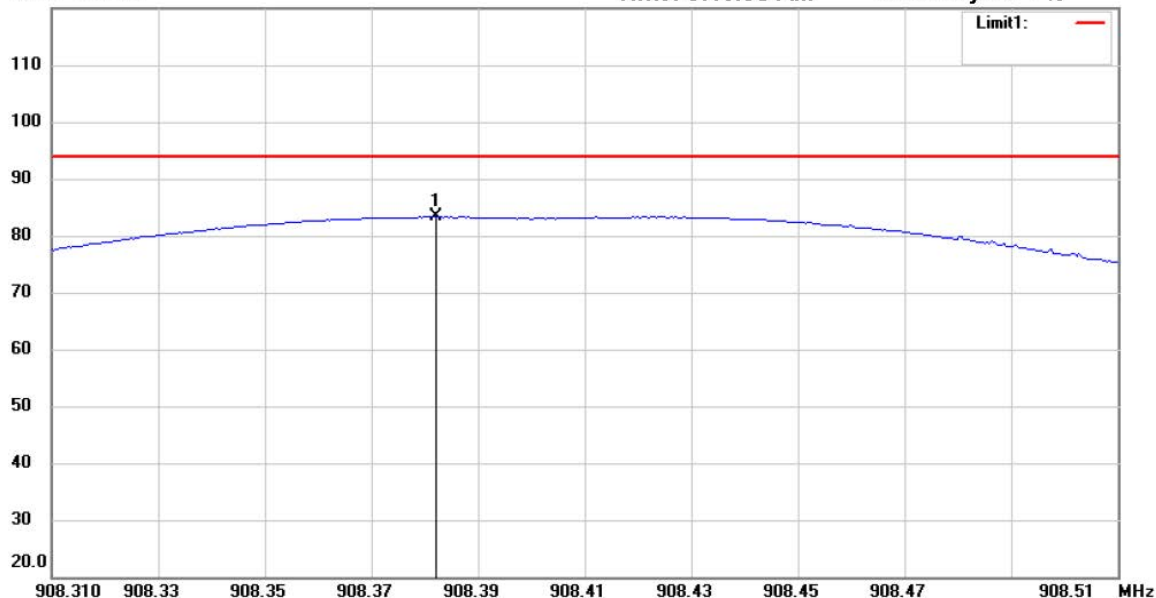
Date: 6/3/2018

Temperature:26.8 °C

120.0 dBuV/m

Time: 5:40:58 AM

Humidity:62.1 %



Site : Chamber

Condition : FCC 15.249 power(902-928)\_QP

Polarization: *Vertical*

EUT : W6R21805-18133

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 908.41MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 908.3821        | 50.37          | QP       | 32.98               | 83.35           | 94.00          | 100          | 30             | -10.65      |         |

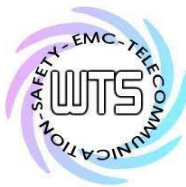
Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 147

### 3.2 Equivalent isotropic radiated power

Because using an permanent antenna there are no deviations from the radiated test results according 3.1.

### 3.3 RF Exposure Compliance Requirements

Not applicable for this EUT for the low power level.



Registration number: W6R22112-21431-C-9

FCC ID: GX9FPHUB3-1

### **3.4 Out of Band Radiated Emissions**

FCC Rule: 15.249 (d)(e), 15.35(b)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequency above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

Limits:

| Frequency of Emission<br>(MHz) | Field strength<br>(microvolts/meter) | Field Strength<br>(dB microvolts/meter) |
|--------------------------------|--------------------------------------|-----------------------------------------|
| 30 - 88                        | 100                                  | 40.0                                    |
| 88 – 216                       | 150                                  | 43.5                                    |
| 216 – 960                      | 200                                  | 46.5                                    |
| Above 960                      | 500                                  | 54.0                                    |

For frequencies above 1 GHz (Peak measurements).

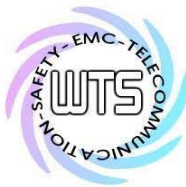
Limit + 20 dB      $54.0 \text{ dB}\mu\text{V/m} + 20 \text{ dB} = 74 \text{ dB}\mu\text{V/m}$

Or

Must be attenuated at least 50dB below the level of fundament

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

Explanation: Please see attached diagram as appendix.



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

Registration number: W6R22112-21431-C-9

FCC ID: GX9FPHUB3-1

## **3.5 Spurious emission (tx)**

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

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequencies above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

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

The peak and average spurious emission plots was measured with the average limits.  
The critical peak value listed in the table agree with the above calculated limits.

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

Model: FPHUB3.1 Date: --  
Mode: -- Temperature: -- °C Engineer: --  
Polarization: Horizontal Humidity: -- %

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

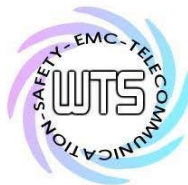
Polarization: Vertical

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

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

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

Test equipment used: ETSTW-RE 004, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 152,  
ETSTW-RE 030, ETSTW-RE 088, ETSTW-RE 018



Registration number: W6R22112-21431-C-9  
FCC ID: GX9FPHUB3-1

## **3.6 Radiated Emissions from Digital Part**

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

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

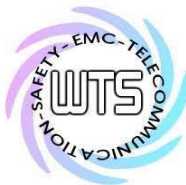
| Frequency of Emission<br>(MHz) | Field Strength<br>(microvolts/meter) | Field Strength<br>(dBmicrovolts/meter) |
|--------------------------------|--------------------------------------|----------------------------------------|
| 30 – 88                        | 100                                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

#### **Note**

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

Test equipment used: ETSTW-RE 004, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 152,  
ETSTW-RE 030

Explanation: The test results are listed in the separated test report no.: W6R22112-21431-P-15B.

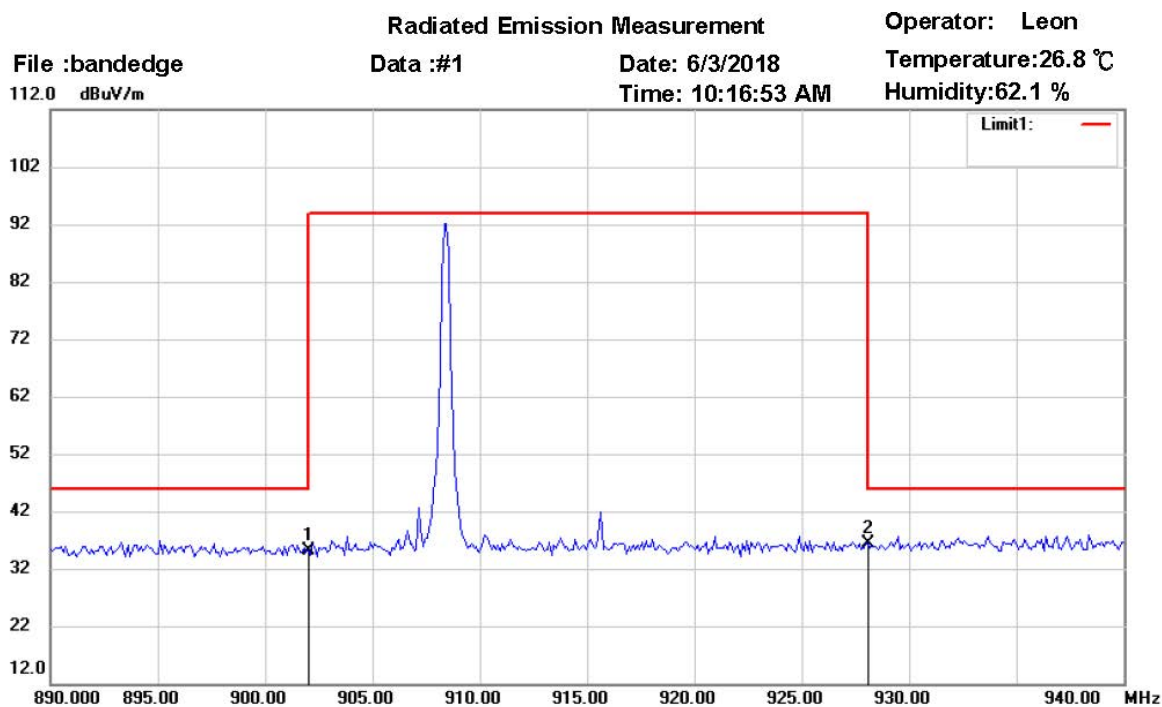


Registration number: W6R22112-21431-C-9

FCC ID: GX9FPHUB3-1

## 3.7 Radiated Emission on the band edge

From the following plots, they show that the fundamental emissions are confined in the specified band and they are at least 50 dB below the carrier level at band edge (2400 and 2483.5 MHz). It meets the requirement of section 15.249(d).



Site : Chamber

Condition : FCC 15.249 Bandedge(902-928)\_QP

EUT : W6R21805-18133

M/N:

Test Mode : TX 908.41MHz

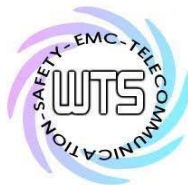
Note :

Polarization: *Horizontal*

Power : 120 V.a.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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 902.0000        | 2.30           | peak     | 32.88               | 35.18           | 46.00          | 100          | 200            | -10.82      |         |
| *   | 928.0000        | 3.15           | peak     | 33.30               | 36.45           | 46.00          | 100          | 200            | -9.55       |         |



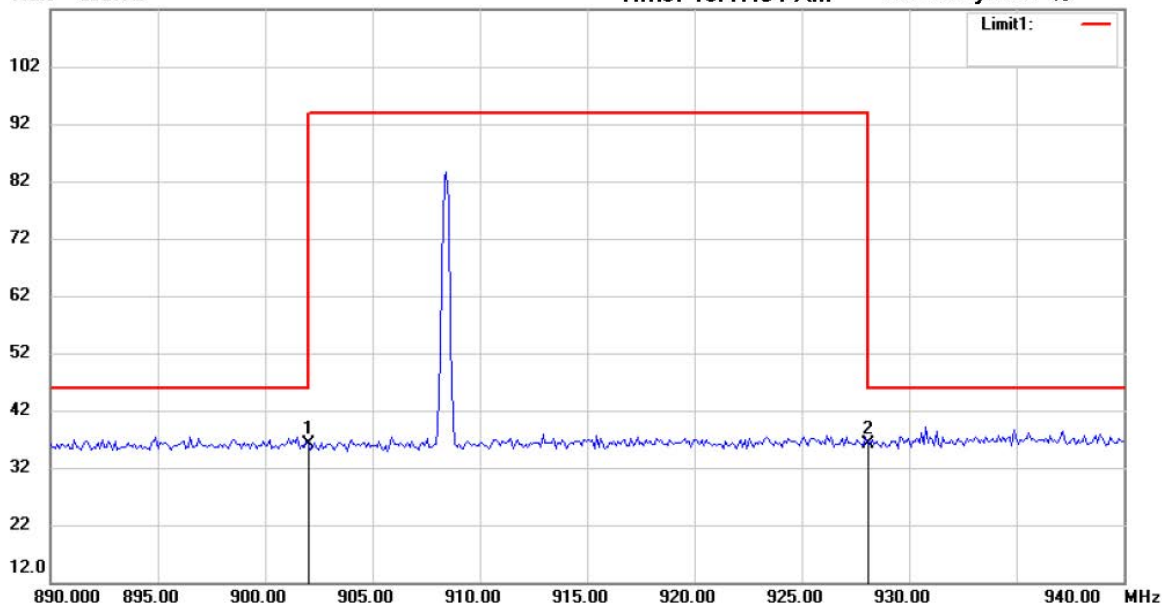
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22112-21431-C-9

FCC ID: GX9FPHUB3-1

**Radiated Emission Measurement**

File :bandedge      Data :#2      Date: 6/3/2018      Operator: Leon  
 112.0 dBuV/m      Time: 10:17:54 AM      Temperature:26.8 °C  
                                                                                  Humidity:62.1 %



Site : Chamber

Condition : FCC 15.249 Bandedge(902-928)\_QP

EUT : W6R21805-18133

M/N:

Test Mode : TX 908.41MHz

Note :

Polarization: *Vertical*

Power : 120 Va.c.

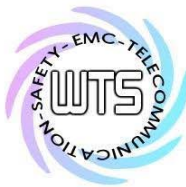
Distance: 3m

| 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 902.0000        | 3.35           | QP       | 32.88               | 36.23           | 46.00          | 100          | 30             | -9.77       |         |
|     | 928.0000        | 2.91           | QP       | 33.30               | 36.21           | 46.00          | 100          | 30             | -9.79       |         |

Limit:

| Frequency Range (MHz) | Limit (dBμV/m) |         |
|-----------------------|----------------|---------|
|                       | Peak           | Average |
| 902 – 928             | 114            | 94      |
| 2400 – 2483.5         | 74             | 54      |
| 5725 – 5875           | 74             | 54      |

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



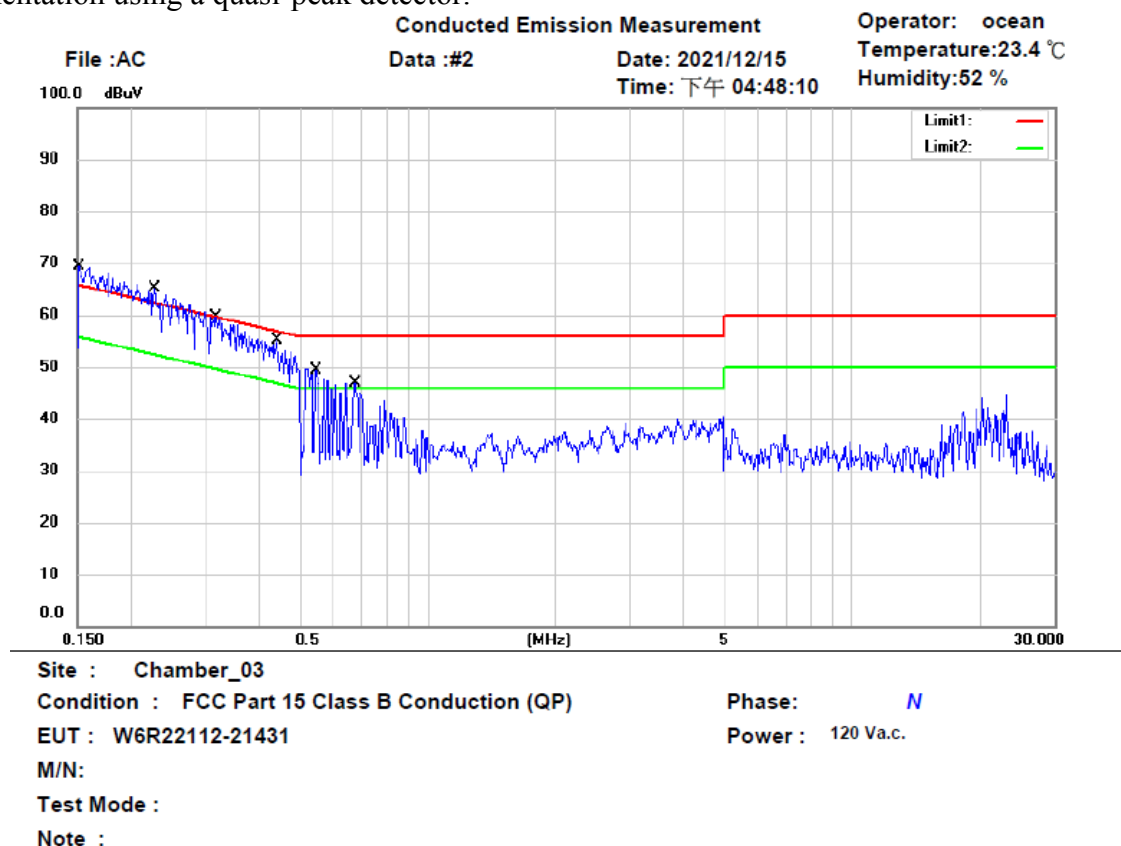
Registration number: W6R22112-21431-C-9

FCC ID: GX9FPHUB3-1

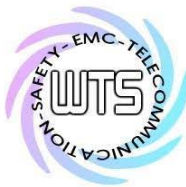
## 3.8 Power Line Conducted Emission

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

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



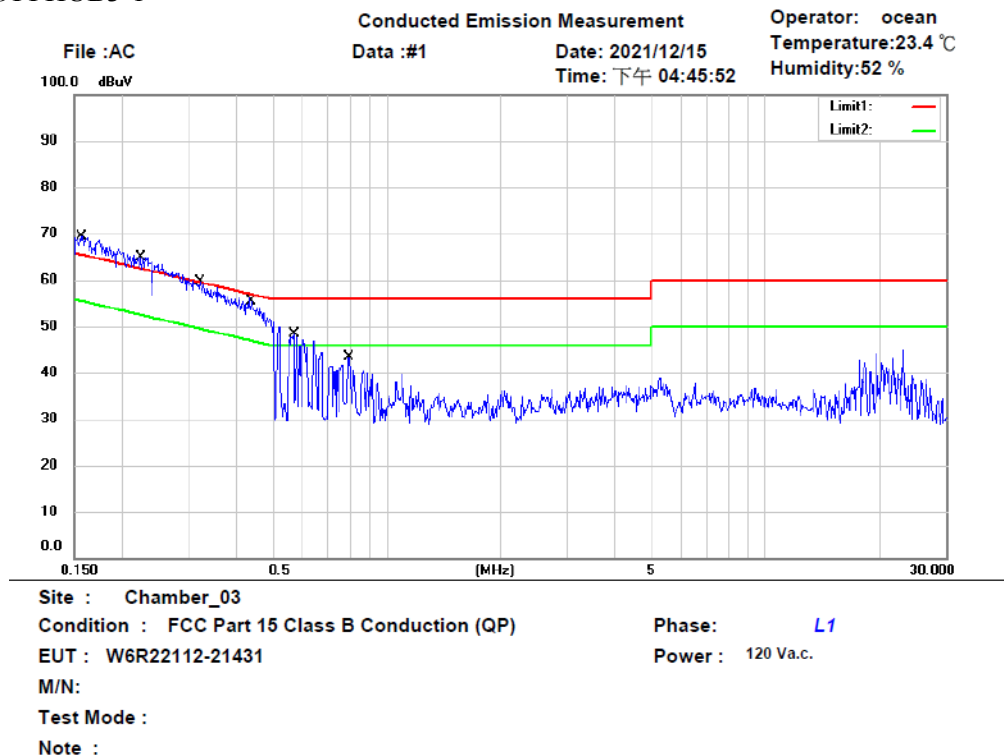
| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corrected factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|----------------------|---------------|--------------|-------------|---------|
|     | 0.1508          | 46.49          | QP       | 9.61                 | 56.10         | 65.96        | -9.86       |         |
|     | 0.1508          | 25.36          | AVG      | 9.61                 | 34.97         | 55.96        | -20.99      |         |
|     | 0.2277          | 40.27          | QP       | 9.59                 | 49.86         | 62.53        | -12.67      |         |
|     | 0.2277          | 18.62          | AVG      | 9.59                 | 28.21         | 52.53        | -24.32      |         |
|     | 0.3168          | 36.51          | QP       | 9.51                 | 46.02         | 59.79        | -13.77      |         |
|     | 0.3168          | 17.10          | AVG      | 9.51                 | 26.61         | 49.79        | -23.18      |         |
|     | 0.4435          | 34.17          | QP       | 9.46                 | 43.63         | 57.00        | -13.37      |         |
| *   | 0.4435          | 28.47          | AVG      | 9.46                 | 37.93         | 47.00        | -9.07       |         |
|     | 0.5450          | 26.85          | QP       | 9.50                 | 36.35         | 56.00        | -19.65      |         |
|     | 0.5450          | 6.98           | AVG      | 9.50                 | 16.48         | 46.00        | -29.52      |         |
|     | 0.6732          | 22.00          | QP       | 9.55                 | 31.55         | 56.00        | -24.45      |         |
|     | 0.6732          | 9.38           | AVG      | 9.55                 | 18.93         | 46.00        | -27.07      |         |



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

Registration number: W6R22112-21431-C-9

FCC ID: GX9FPHUB3-1



| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corrected factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|----------------------|---------------|--------------|-------------|---------|
|     | 0.1573          | 47.05          | QP       | 9.62                 | 56.67         | 65.61        | -8.94       |         |
|     | 0.1573          | 25.98          | AVG      | 9.62                 | 35.60         | 55.61        | -20.01      |         |
|     | 0.2251          | 42.31          | QP       | 9.60                 | 51.91         | 62.63        | -10.72      |         |
|     | 0.2251          | 18.71          | AVG      | 9.60                 | 28.31         | 52.63        | -24.32      |         |
|     | 0.3224          | 36.51          | QP       | 9.52                 | 46.03         | 59.64        | -13.61      |         |
|     | 0.3224          | 17.66          | AVG      | 9.52                 | 27.18         | 49.64        | -22.46      |         |
|     | 0.4390          | 37.23          | QP       | 9.47                 | 46.70         | 57.08        | -10.38      |         |
| *   | 0.4390          | 33.24          | AVG      | 9.47                 | 42.71         | 47.08        | -4.37       |         |
|     | 0.5697          | 26.47          | QP       | 9.52                 | 35.99         | 56.00        | -20.01      |         |
|     | 0.5697          | 11.98          | AVG      | 9.52                 | 21.50         | 46.00        | -24.50      |         |
|     | 0.7925          | 19.66          | QP       | 9.61                 | 29.27         | 56.00        | -26.73      |         |
|     | 0.7925          | 12.68          | AVG      | 9.61                 | 22.29         | 46.00        | -23.71      |         |

## Note:

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

## Limits:

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

Test equipment used: ETSTW-CE 016, ETSTW-CE 028, ETSTW-RE-045



Registration number: W6R22112-21431-C-9  
FCC ID: GX9FPHUB3-1

## **Appendix**

Spurious Emissions radiated\_TX\_Z-Wave



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

# Radiated Emission Measurement

Operator: Leon

File :1

Data :#1

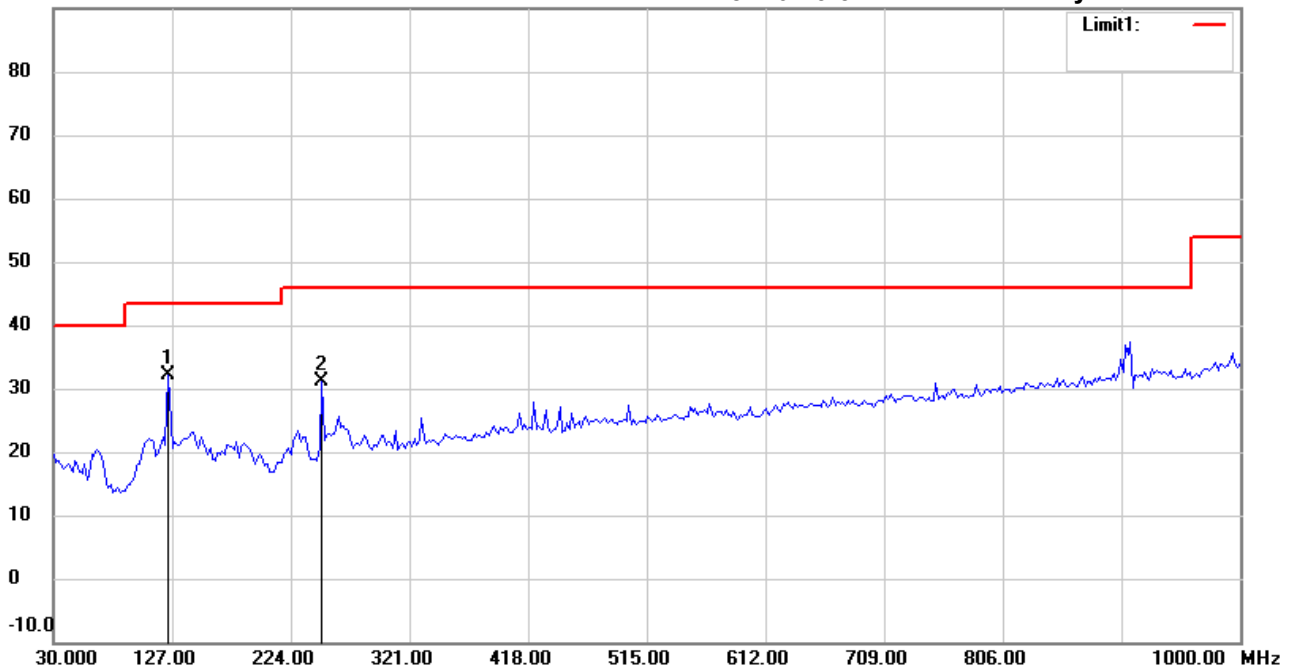
Date: 6/3/2018

Temperature: 26.8 °C

90.0 dBuV/m

Time: 10:23:54 AM

Humidity: 62.1 %



Site : Chamber

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

EUT : W6R21805-18133

M/N:

Test Mode : TX 908.41MHz

Note :

Polarization: **Horizontal**

Power : 120 Va.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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 123.3066        | 38.68          | peak     | -6.50               | 32.18           | 43.50          | 100          | 245            | -11.32      |         |
|     | 249.6593        | 38.61          | peak     | -7.39               | 31.22           | 46.00          | 100          | 190            | -14.78      |         |

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



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

# Radiated Emission Measurement

Operator: Leon

File : 1

Data : #2

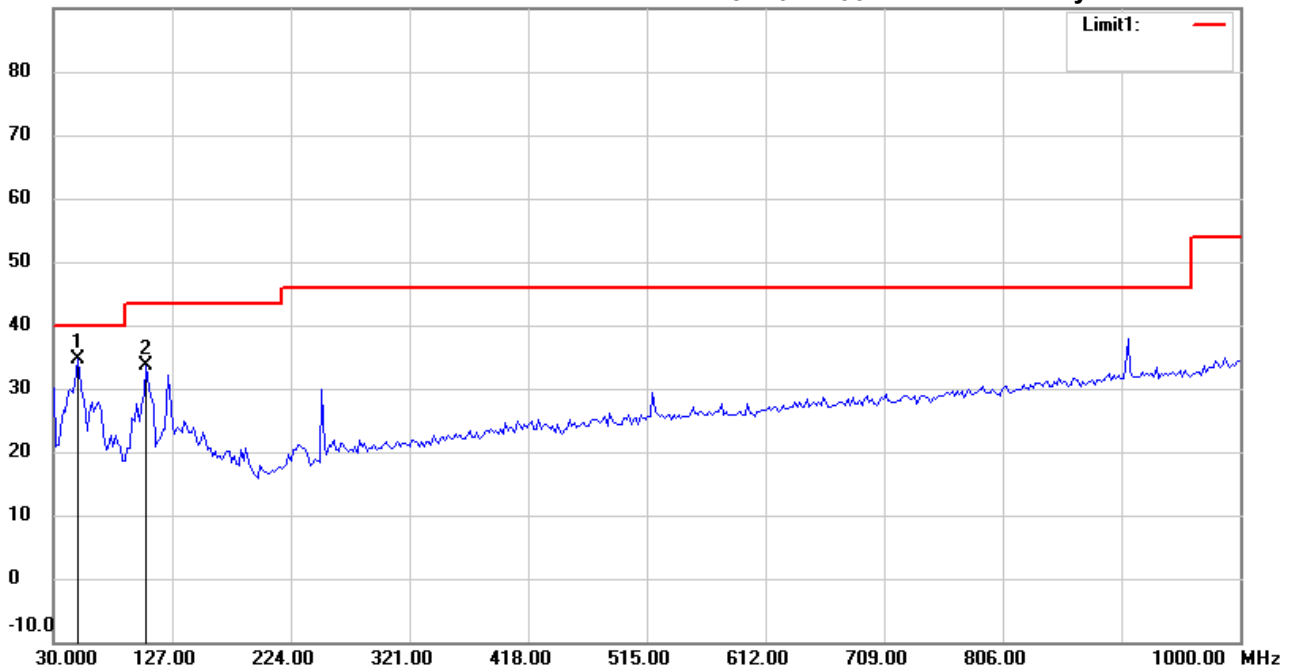
Date: 6/3/2018

Temperature: 26.8 °C

90.0 dBuV/m

Time: 10:27:33 AM

Humidity: 62.1 %



Site : Chamber

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

EUT : W6R21805-18133

M/N:

Test Mode : TX 908.41MHz

Note :

Polarization: **Vertical**

Power : 120 Va.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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 49.4388         | 44.77          | peak     | -10.03              | 34.74           | 40.00          | 100          | 215            | -5.26       |         |
|     | 105.8116        | 42.13          | peak     | -8.44               | 33.69           | 43.50          | 100          | 110            | -9.81       |         |

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



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

# Radiated Emission Measurement

Operator: Leon

File : 3

Data : #1

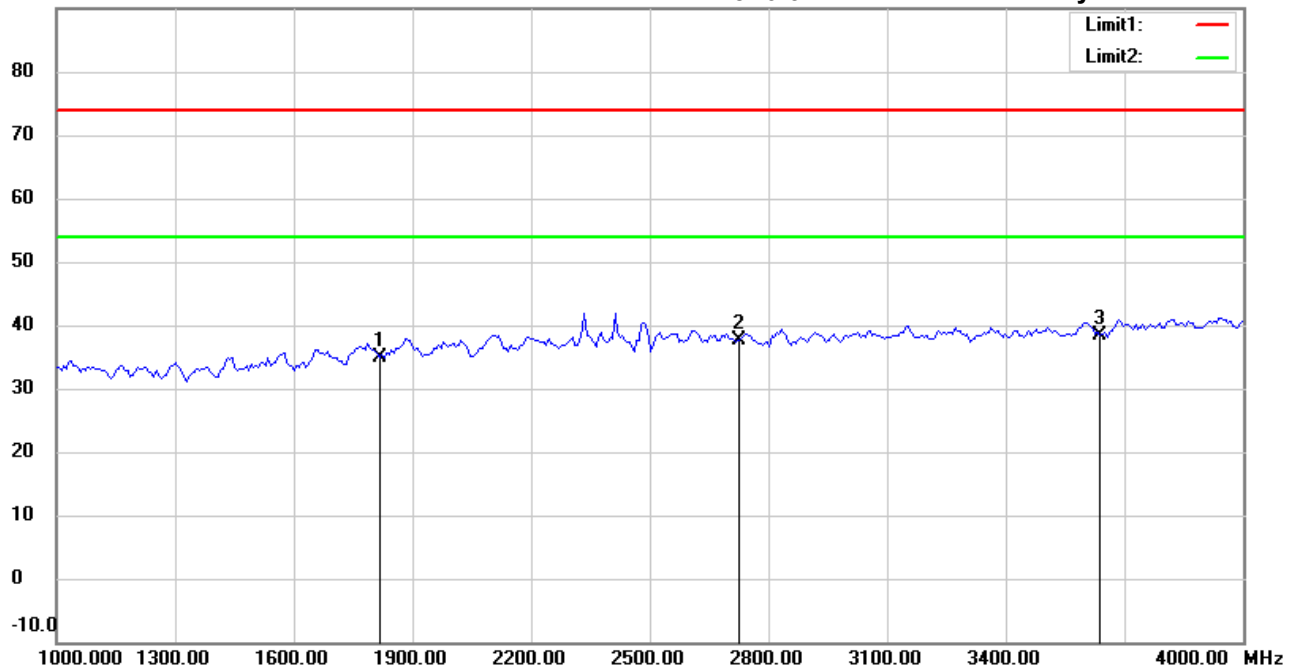
Date: 6/3/2018

Temperature: 26.8 °C

90.0 dBuV/m

Time: 6:32:42 AM

Humidity: 62.1 %



Site : Chamber

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

EUT : W6R21805-18133

M/N:

Test Mode : TX 908.41MHz

Note :

Polarization: **Horizontal**

Power : 120 Va.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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 1816.820        | 41.29          | peak     | -6.44               | 34.85           | 74.00          | 150          | 175            | -39.15      |         |
|     | 2725.230        | 41.59          | peak     | -3.84               | 37.75           | 74.00          | 150          | 95             | -36.25      |         |
| *   | 3633.640        | 39.68          | peak     | -1.19               | 38.49           | 74.00          | 150          | 20             | -35.51      |         |

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



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# Radiated Emission Measurement

Operator: Leon

File : 3

Data : #4

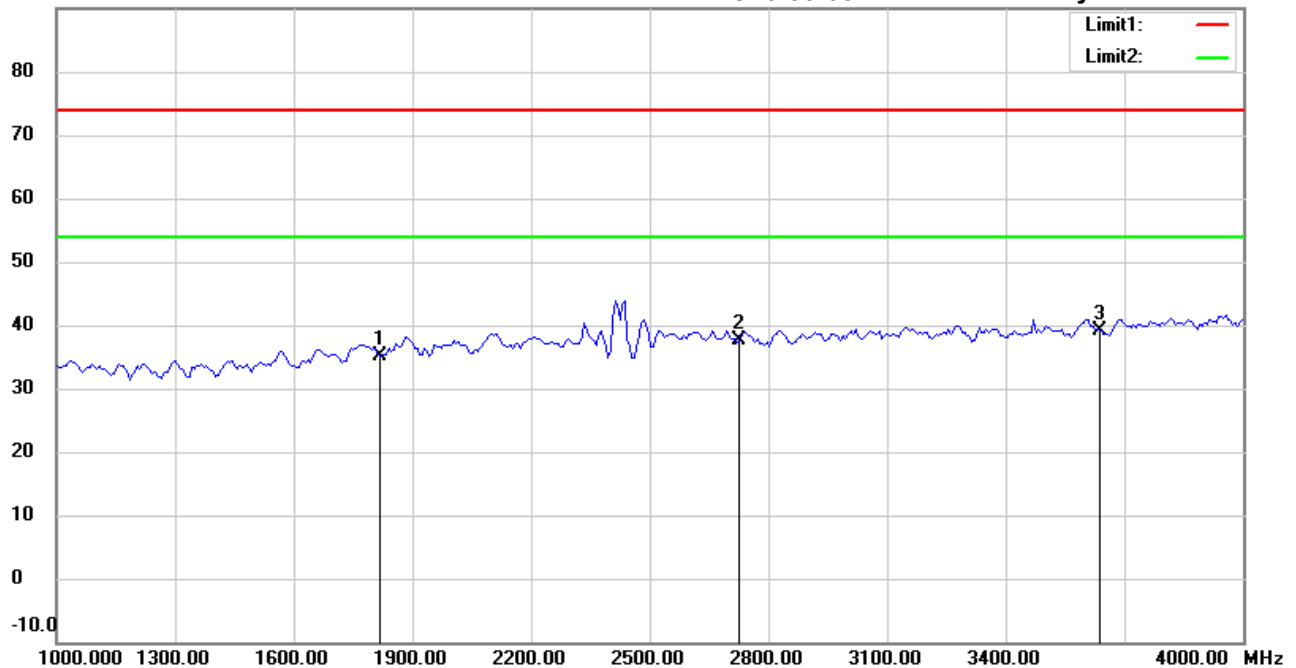
Date: 6/3/2018

Temperature: 26.8 °C

90.0 dBuV/m

Time: 6:35:05 AM

Humidity: 62.1 %



Site : Chamber

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

EUT : W6R21805-18133

M/N:

Test Mode : TX 908.41MHz

Note :

Polarization: **Vertical**

Power : 120 Va.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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 1816.820        | 41.67          | peak     | -6.44               | 35.23           | 74.00          | 150          | 40             | -38.77      |         |
|     | 2725.230        | 41.36          | peak     | -3.84               | 37.52           | 74.00          | 150          | 110            | -36.48      |         |
| *   | 3633.640        | 40.22          | peak     | -1.19               | 39.03           | 74.00          | 150          | 75             | -34.97      |         |

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



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# Radiated Emission Measurement

Operator: Leon

File :3

Data :#2

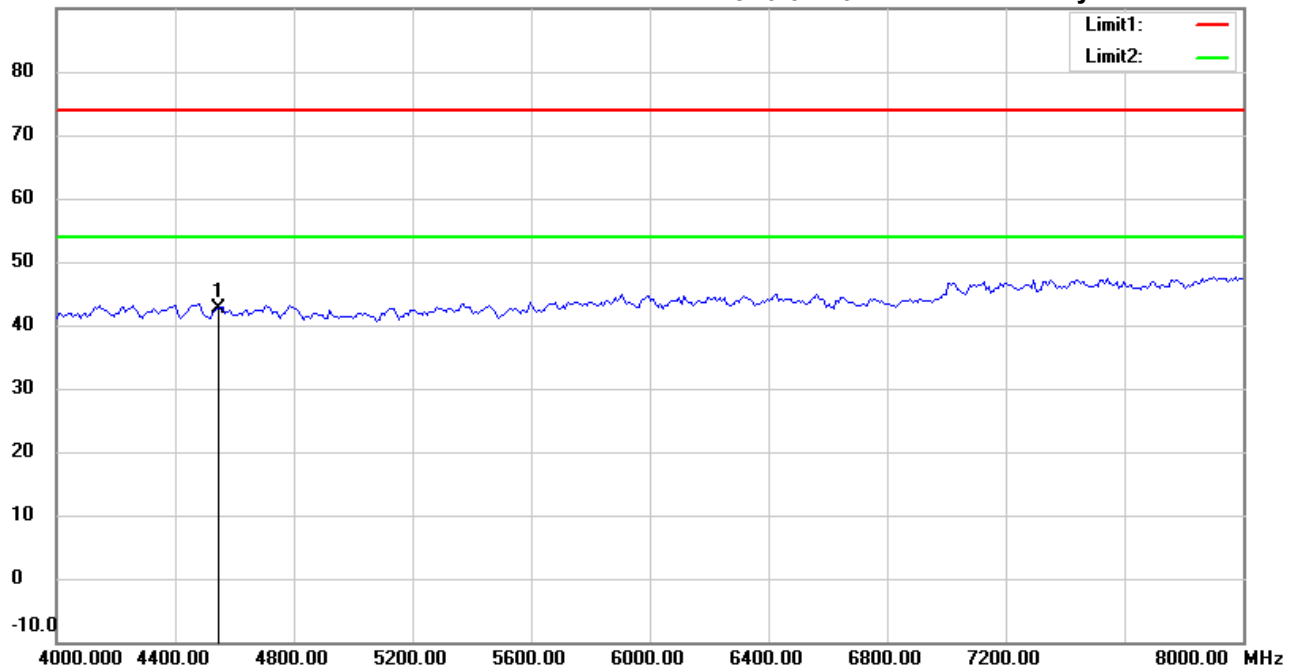
Date: 6/3/2018

Temperature: 26.8 °C

90.0 dBuV/m

Time: 6:37:29 AM

Humidity: 62.1 %



Site : Chamber

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

EUT : W6R21805-18133

M/N:

Test Mode : TX 908.41MHz

Note :

Polarization: *Horizontal*

Power : 120 Va.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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 4542.050        | 41.91          | peak     | 0.77                | 42.68           | 74.00          | 150          | 76             | -31.32      |         |

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



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# Radiated Emission Measurement

Operator: Leon

File :3

Data :#5

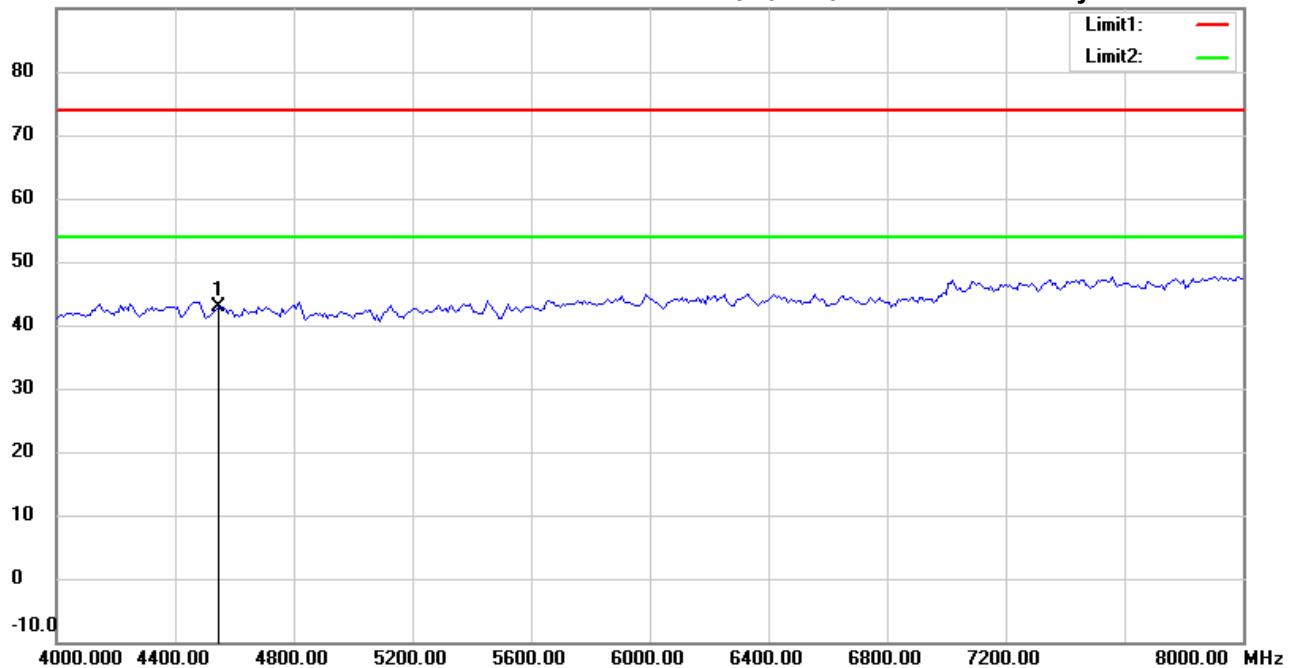
Date: 6/3/2018

Temperature: 26.8 °C

90.0 dBuV/m

Time: 6:41:34 AM

Humidity: 62.1 %



Site : Chamber

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

EUT : W6R21805-18133

M/N:

Test Mode : TX 908.41MHz

Note :

Polarization: **Vertical**

Power : 120 Va.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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 4542.050        | 42.05          | peak     | 0.77                | 42.82           | 74.00          | 150          | 211            | -31.18      |         |

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



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### Radiated Emission Measurement

Operator: Leon

File : 3

Data : #3

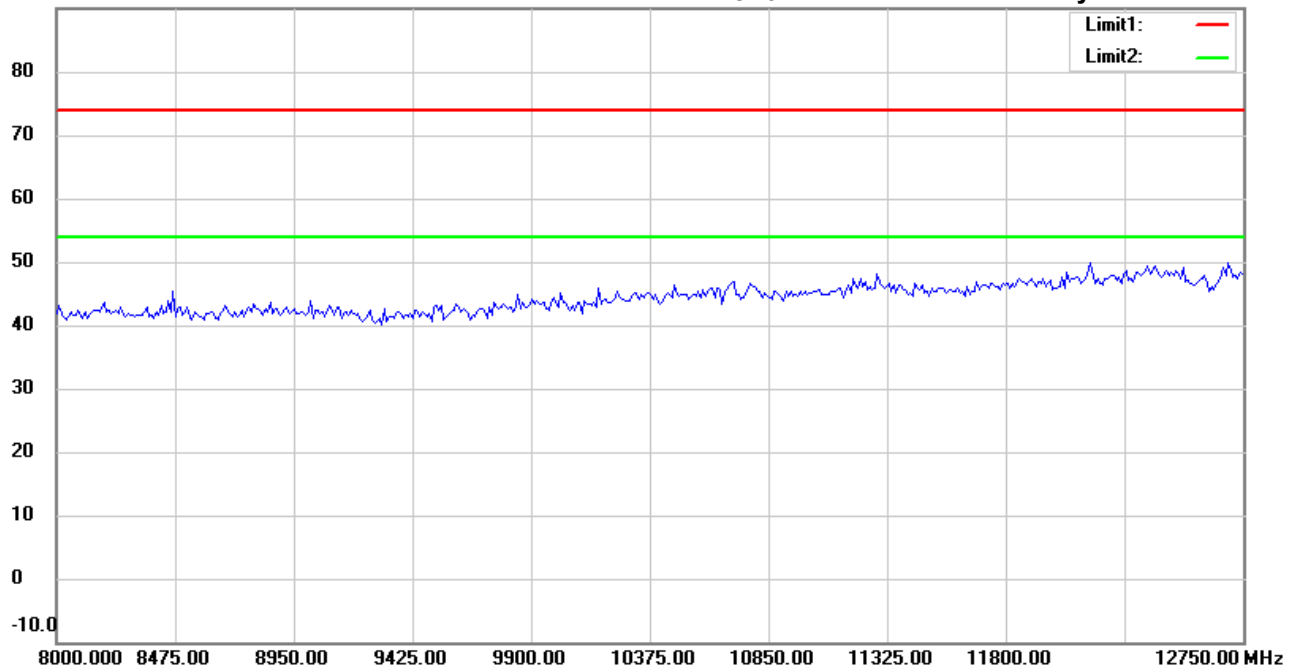
Date: 6/3/2018

Temperature: 26.8 °C

90.0 dBuV/m

Time: 6:42:12 AM

Humidity: 62.1 %



Site : Chamber

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

EUT : W6R21805-18133

M/N:

Test Mode : TX 908.41MHz

Note :

Polarization: *Horizontal*

Power : 120 Va.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: Leon

File : 3

Data : #6

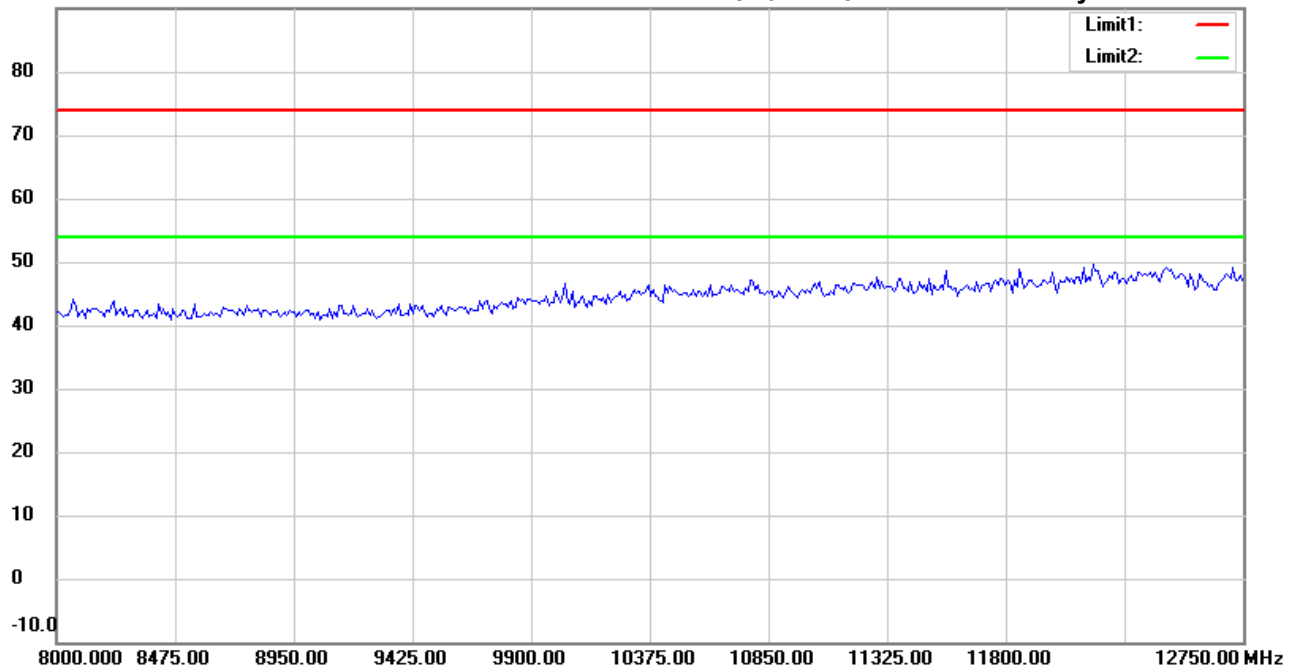
Date: 6/3/2018

Temperature: 26.8 °C

90.0 dBuV/m

Time: 6:42:28 AM

Humidity: 62.1 %



Site : Chamber

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

EUT : W6R21805-18133

M/N:

Test Mode : TX 908.41MHz

Note :

Polarization: **Vertical**

Power : 120 Va.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