

# **FCC REPORT**

## **(UNII)**

**Applicant:** Move Robotics Technology Co., Ltd.

**Address of Applicant:** Floor 4, No.1150, Feidu Road, Xin Cheng town, Nanhui, Pudong, Shanghai, China

**Equipment Under Test (EUT)**

Product Name: Health Management Exoskeleton

Model No.: Mercury-Sports-1901

Trade mark: Move Robotics

**FCC ID:** 2AVZEMRMCRUS20PT203

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart E Section 15.407

**Date of sample receipt:** 24 Mar., 2020

**Date of Test:** 25 Mar., to 15 Jul., 2020

**Date of report issued:** 30 Jul., 2020

**Test Result:** PASS\*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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## 2 Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | 30 Jul., 2020 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |
|             |               |             |

Tested by: Tanet Wei  
Test Engineer

Date: 30 Jul., 2020

Reviewed by: Winner Zhang  
Project Engineer

Date: 30 Jul., 2020

### 3 Contents

Page

|   |                                                                   |    |
|---|-------------------------------------------------------------------|----|
| 1 | COVER PAGE.....                                                   | 1  |
| 2 | VERSION .....                                                     | 2  |
| 3 | CONTENTS .....                                                    | 3  |
| 4 | TEST SUMMARY .....                                                | 4  |
| 5 | GENERAL INFORMATION.....                                          | 5  |
|   | 5.1 CLIENT INFORMATION.....                                       | 5  |
|   | 5.2 GENERAL DESCRIPTION OF E.U.T.....                             | 5  |
|   | 5.3 TEST ENVIRONMENT AND MODE, AND TEST SAMPLES PLANS .....       | 7  |
|   | 5.4 DESCRIPTION OF SUPPORT UNITS.....                             | 7  |
|   | 5.5 MEASUREMENT UNCERTAINTY.....                                  | 7  |
|   | 5.6 ADDITIONS TO, DEVIATIONS, OR EXCLUSIONS FROM THE METHOD ..... | 7  |
|   | 5.7 RELATED SUBMITTAL(S) / GRANT (S) .....                        | 7  |
|   | 5.8 LABORATORY FACILITY .....                                     | 8  |
|   | 5.9 LABORATORY LOCATION .....                                     | 8  |
|   | 5.10 TEST INSTRUMENTS LIST .....                                  | 9  |
| 6 | TEST RESULTS AND MEASUREMENT DATA.....                            | 10 |
|   | 6.1 ANTENNA REQUIREMENT .....                                     | 10 |
|   | 6.2 CONDUCTED EMISSION .....                                      | 11 |
|   | 6.3 CONDUCTED OUTPUT POWER .....                                  | 14 |
|   | 6.4 OCCUPY BANDWIDTH .....                                        | 15 |
|   | 6.5 POWER SPECTRAL DENSITY .....                                  | 16 |
|   | 6.6 BAND EDGE .....                                               | 17 |
|   | 6.7 SPURIOUS EMISSION.....                                        | 22 |
|   | 6.7.1 Restricted Band .....                                       | 22 |
|   | 6.7.2 Unwanted Emissions out of the Restricted Bands .....        | 23 |
|   | 6.8 FREQUENCY STABILITY .....                                     | 31 |
| 7 | TEST SETUP PHOTO .....                                            | 33 |
| 8 | EUT CONSTRUCTIONAL DETAILS .....                                  | 35 |

## 4 Test Summary

| Test Item                                                                                                                                                                                                                                                    | Section in CFR 47                                                                                   | Test Result |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------|
| Antenna requirement                                                                                                                                                                                                                                          | 15.203 & 15.407 (a)                                                                                 | Pass        |
| AC Power Line Conducted Emission                                                                                                                                                                                                                             | 15.207                                                                                              | Pass        |
| Conducted Peak Output Power                                                                                                                                                                                                                                  | 15.407 (a) (1) (iv) & (a) (2) & (a) (3)                                                             | Pass        |
| 26dB Occupied Bandwidth                                                                                                                                                                                                                                      | 15.407 (a) (5)                                                                                      | Pass        |
| 6dB Emission Bandwidth                                                                                                                                                                                                                                       | 15.407(e)                                                                                           | Pass        |
| Power Spectral Density                                                                                                                                                                                                                                       | 15.407 (a) (1) (iv) & (a) (2) & (a) (3)                                                             | Pass        |
| Band Edge                                                                                                                                                                                                                                                    | 15.407(b)                                                                                           | Pass        |
| Spurious Emission                                                                                                                                                                                                                                            | 15.407 (b) & 15.205 & 15.209                                                                        | Pass        |
| Frequency Stability                                                                                                                                                                                                                                          | 15.407(g)                                                                                           | Pass        |
| <b>Remark:</b><br>1. Pass: The EUT complies with the essential requirements in the standard.<br>2. N/A: Not Applicable.<br>3. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer). |                                                                                                     |             |
| <b>Test Method:</b>                                                                                                                                                                                                                                          | ANSI C63.4-2014<br>ANSI C63.10-2013<br>KDB 789033 D02 General UNII Test Procedures New Rules v02r01 |             |

## 5 General Information

### 5.1 Client Information

|                        |                                                                               |
|------------------------|-------------------------------------------------------------------------------|
| Applicant:             | Move Robotics Technology Co., Ltd.                                            |
| Address:               | Floor 4, No.1150, Feidu Road, Xin Cheng town, Nanhui, Pudong, Shanghai, China |
| Manufacturer/ Factory: | Move Robotics Technology Co., Ltd.                                            |
| Address:               | Floor 4, No.1150, Feidu Road, Xin Cheng town, Nanhui, Pudong, Shanghai, China |

### 5.2 General Description of E.U.T.

|                                       |                                                                                                             |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Product Name:                         | Health Management Exoskeleton                                                                               |
| Model No.:                            | Mercury-Sports-1901                                                                                         |
| Operation Frequency:                  | Band 1: 5150MHz-5250MHz, Band 4: 5725MHz-5825MHz                                                            |
| Channel numbers:                      | Band 1: 802.11a/802.11n20: 4<br>Band 4: 802.11a/802.11n20: 5                                                |
| Channel separation:                   | 802.11a/802.11n20: 20MHz                                                                                    |
| Modulation technology (IEEE 802.11a): | BPSK, QPSK, 16-QAM, 64-QAM                                                                                  |
| Modulation technology (IEEE 802.11n): | BPSK, QPSK, 16-QAM, 64-QAM                                                                                  |
| Data speed (IEEE 802.11a):            | 6Mbps, 9Mbps,12Mbps,18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps                                                  |
| Data speed (IEEE 802.11n20):          | MCS0: 6.5Mbps, MCS1:13Mbps,MCS2:19.5Mbps, MCS3:26Mbps, MCS4:39Mbps, MCS5:52Mbps, MCS6:58.5Mbps, MCS7:65Mbps |
| Antenna Type:                         | Internal Antenna                                                                                            |
| Antenna gain:                         | left calves: 5.2G WiFi/ 5.8G WiFi: 2.0dBi                                                                   |
| Power supply:                         | Rechargeable Li-ion Battery DC3.7V-1900mAh                                                                  |
| AC adapter:                           | Model: AX-ADPD<br>Input: 100-240V ~ 50/60Hz 2.5A<br>USB Output: 5V 3A(each port)                            |
| Test Sample Condition:                | The test samples were provided in good working order with no visible defects.                               |

| Operation Frequency each of channel |           |
|-------------------------------------|-----------|
| Band 1                              |           |
| 802.11a/802.11n-HT20                |           |
| Channel                             | Frequency |
| 36                                  | 5180MHz   |
| 40                                  | 5200MHz   |
| 44                                  | 5220MHz   |
| 48                                  | 5240MHz   |
| Band 4                              |           |
| 802.11a/802.11n -HT20               |           |
| Channel                             | Frequency |
| 149                                 | 5745MHz   |
| 153                                 | 5765MHz   |
| 157                                 | 5785MHz   |
| 161                                 | 5805MHz   |
| 165                                 | 5825MHz   |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Band 1                |           |
|-----------------------|-----------|
| 802.11a/802.11n -HT20 |           |
| Channel               | Frequency |
| Lowest                | 5180MHz   |
| Middle                | 5200MHz   |
| Highest               | 5240MHz   |
| Band 4                |           |
| 802.11a/802.11n -HT20 |           |
| Channel               | Frequency |
| Lowest                | 5745MHz   |
| Middle                | 5785MHz   |
| Highest               | 5825MHz   |

### 5.3 Test environment and mode, and test samples plans

| Operating Environment:                                                                                                                                                                                       |                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Temperature:                                                                                                                                                                                                 | 24.0 °C                                                       |
| Humidity:                                                                                                                                                                                                    | 54 % RH                                                       |
| Atmospheric Pressure:                                                                                                                                                                                        | 1010 mbar                                                     |
| Test mode:                                                                                                                                                                                                   |                                                               |
| Continuously transmitting mode                                                                                                                                                                               | Keep the EUT in 100% duty cycle transmitting with modulation. |
| We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows: |                                                               |
| Per-scan all kind of data rate, and found the follow list were the worst case.                                                                                                                               |                                                               |
| Mode                                                                                                                                                                                                         | Data rate                                                     |
| 802.11a                                                                                                                                                                                                      | 6 Mbps                                                        |
| 802.11n20                                                                                                                                                                                                    | 6.5 Mbps                                                      |

### 5.4 Description of Support Units

| Manufacturer | Description | Model | Serial Number | FCC ID/DoC |
|--------------|-------------|-------|---------------|------------|
| LENOVO       | Laptop      | SL510 | 2847A65       | DoC        |

### 5.5 Measurement Uncertainty

| Parameters                          | Expanded Uncertainty |
|-------------------------------------|----------------------|
| Conducted Emission (9kHz ~ 30MHz)   | ±1.60 dB (k=2)       |
| Radiated Emission (9kHz ~ 30MHz)    | ±3.12 dB (k=2)       |
| Radiated Emission (30MHz ~ 1000MHz) | ±4.32 dB (k=2)       |
| Radiated Emission (1GHz ~ 18GHz)    | ±5.16 dB (k=2)       |
| Radiated Emission (18GHz ~ 40GHz)   | ±3.20 dB (k=2)       |

### 5.6 Additions to, deviations, or exclusions from the method

|    |
|----|
| No |
|----|

### 5.7 Related Submittal(s) / Grant (s)

|                                                              |
|--------------------------------------------------------------|
| This is an original grant, no related submittals and grants. |
|--------------------------------------------------------------|

## 5.8 Laboratory Facility

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

- **FCC - Designation No.: CN1211**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

## 5.9 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road,  
Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: [info@ccis-cb.com](mailto:info@ccis-cb.com), Website: <http://www.ccis-cb.com>

## 5.10 Test Instruments list

| Test Equipment               | Manufacturer    | Model No.     | Serial No.         | Cal. Date<br>(mm-dd-yy) | Cal. Due date<br>(mm-dd-yy) |
|------------------------------|-----------------|---------------|--------------------|-------------------------|-----------------------------|
| 3m SAC                       | SAEMC           | 9m*6m*6m      | 966                | 07-22-2017              | 07-21-2020                  |
| BiConiLog Antenna            | SCHWARZBECK     | VULB9163      | 497                | 03-07-2020              | 03-06-2021                  |
| Biconical Antenna            | SCHWARZBECK     | VUBA9117      | 359                | 06-22-2017              | 06-21-2020                  |
|                              |                 |               |                    | 06-22-2020              | 06-21-2021                  |
| Horn Antenna                 | SCHWARZBECK     | BBHA9120D     | 916                | 03-07-2020              | 03-06-2021                  |
| Horn Antenna                 | SCHWARZBECK     | BBHA9120D     | 1805               | 06-22-2017              | 06-21-2020                  |
|                              |                 |               |                    | 06-22-2020              | 06-21-2021                  |
| Horn Antenna                 | SCHWARZBECK     | BBHA 9170     | BBHA9170582        | 11-18-2019              | 11-17-2020                  |
| EMI Test Software            | AUDIX           | E3            | Version: 6.110919b |                         |                             |
| Pre-amplifier                | HP              | 8447D         | 2944A09358         | 03-07-2020              | 03-06-2021                  |
| Pre-amplifier                | CD              | PAP-1G18      | 11804              | 03-07-2020              | 03-06-2021                  |
| Spectrum analyzer            | Rohde & Schwarz | FSP30         | 101454             | 03-05-2020              | 03-04-2021                  |
| Spectrum analyzer            | Rohde & Schwarz | FSP40         | 100363             | 11-18-2019              | 11-17-2020                  |
| EMI Test Receiver            | Rohde & Schwarz | ESRP7         | 101070             | 03-05-2020              | 03-04-2021                  |
| Spectrum Analyzer            | Agilent         | N9020A        | MY50510123         | 11-18-2019              | 11-17-2020                  |
| Signal Generator             | Rohde & Schwarz | SMX           | 835454/016         | 03-05-2020              | 03-04-2021                  |
| Signal Generator             | R&S             | SMR20         | 1008100050         | 03-05-2020              | 03-04-2021                  |
| RF Switch Unit               | MWRFTTEST       | MW200         | N/A                | N/A                     | N/A                         |
| Test Software                | MWRFTTEST       | MTS8200       | Version: 2.0.0.0   |                         |                             |
| Cable                        | ZDECL           | Z108-NJ-NJ-81 | 1608458            | 03-07-2020              | 03-06-2021                  |
| Cable                        | MICRO-COAX      | MFR64639      | K10742-5           | 03-07-2020              | 03-06-2021                  |
| Cable                        | SUHNER          | SUCOFLEX100   | 58193/4PE          | 03-07-2020              | 03-06-2021                  |
| DC Power Supply              | XinNuoEr        | WYK-10020K    | 1409050110020      | 09-25-2019              | 09-24-2020                  |
| Temperature Humidity Chamber | HengPu          | HPGDS-500     | 20140828008        | 11-01-2019              | 10-31-2020                  |
| Simulated Station            | Rohde & Schwarz | CMW500        | 140493             | 07-22-2019              | 07-21-2020                  |

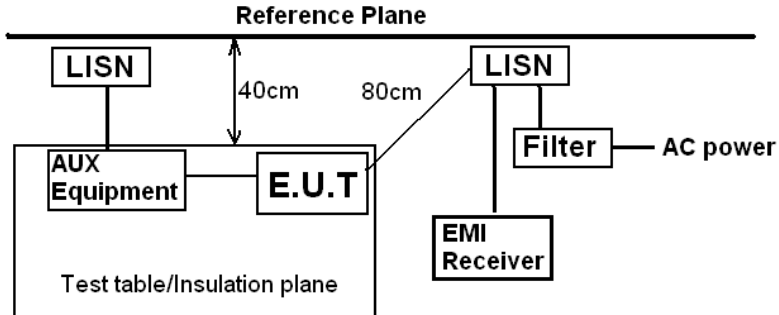
| Conducted Emission: |                 |            |                    |                         |                             |
|---------------------|-----------------|------------|--------------------|-------------------------|-----------------------------|
| Test Equipment      | Manufacturer    | Model No.  | Serial No.         | Cal. Date<br>(mm-dd-yy) | Cal. Due date<br>(mm-dd-yy) |
| EMI Test Receiver   | Rohde & Schwarz | ESCI       | 101189             | 03-05-2020              | 03-04-2021                  |
| Pulse Limiter       | SCHWARZBECK     | OSRAM 2306 | 9731               | 03-05-2020              | 03-04-2021                  |
| LISN                | CHASE           | MN2050D    | 1447               | 03-05-2020              | 03-04-2021                  |
| LISN                | Rohde & Schwarz | ESH3-Z5    | 8438621/010        | 07-21-2017              | 07-20-2020                  |
| Cable               | HP              | 10503A     | N/A                | 03-05-2020              | 03-04-2021                  |
| EMI Test Software   | AUDIX           | E3         | Version: 6.110919b |                         |                             |

## 6 Test results and Measurement Data

### 6.1 Antenna requirement

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Standard requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FCC Part15 E Section 15.203 /407(a) |
| <p>15.203 requirement:<br/>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.</p> |                                     |
| <b>E.U.T Antenna:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |
| <p>The Wi-Fi antenna is an Internal antenna which cannot replace by end-user, the best case gain of the antenna is 2.0 dBi. The ANT please refers to internal photos.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |

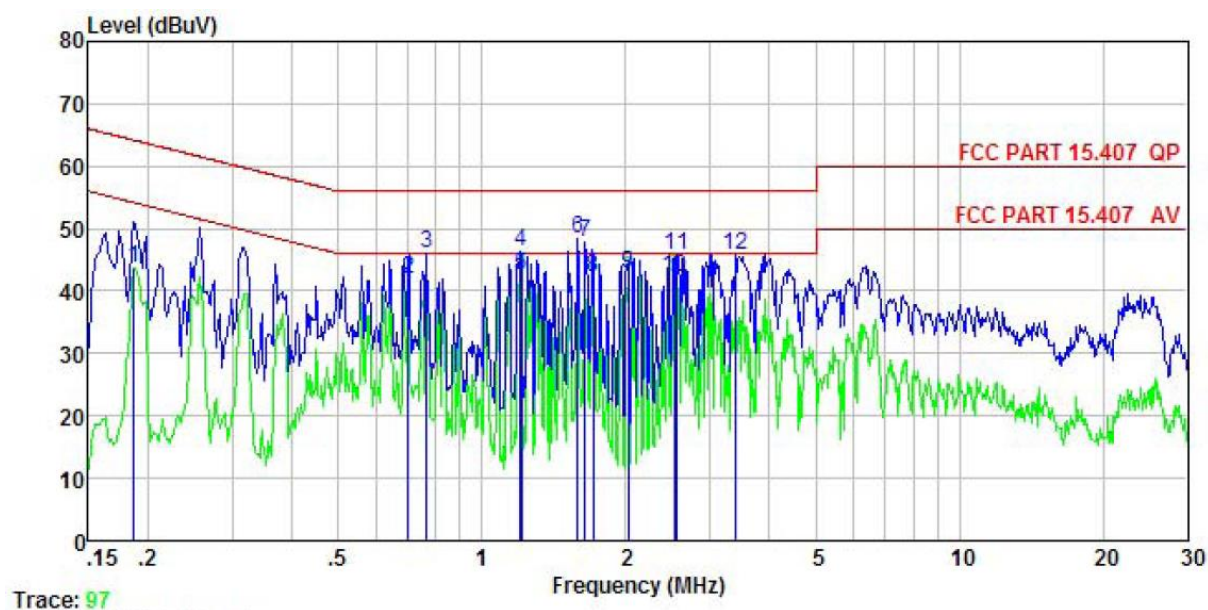
## 6.2 Conducted Emission

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |          |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------|
| Test Requirement:                                | FCC Part15 C Section 15.207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |          |
| Test Frequency Range:                            | 150kHz to 30MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |          |
| Class / Severity:                                | Class B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |          |
| Receiver setup:                                  | RBW=9kHz, VBW=30kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |          |
| Limit:                                           | Frequency range (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Limit (dBUV) |          |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quasi-peak   |          |
|                                                  | 0.15-0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 66 to 56*    | 0.15-0.5 |
|                                                  | 0.5-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 56           | 0.5-5    |
|                                                  | 5-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 60           | 5-30     |
| * Decreases with the logarithm of the frequency. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |          |
| Test procedure                                   | <ol style="list-style-type: none"> <li>The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). It provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10(latest version) on conducted measurement.</li> </ol> |              |          |
| Test setup:                                      |  <p>Remark<br/>E.U.T: Equipment Under Test<br/>LISN: Line Impedance Stabilization Network<br/>Test table height=0.8m</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |          |
| Test Instruments:                                | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |          |
| Test mode:                                       | Refer to section 5.3 for details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |          |
| Test results:                                    | Passed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |          |

## Measurement Data:

## left calves:

|                 |                               |                |                        |
|-----------------|-------------------------------|----------------|------------------------|
| Product name:   | Health Management Exoskeleton | Product model: | Mercury-Sports-1901    |
| Test by:        | Janet                         | Test mode:     | 5G Wi-Fi Tx mode       |
| Test frequency: | 150 kHz ~ 30 MHz              | Phase:         | Line                   |
| Test voltage:   | AC 120 V/60 Hz                | Environment:   | Temp: 22.5°C Humi: 55% |

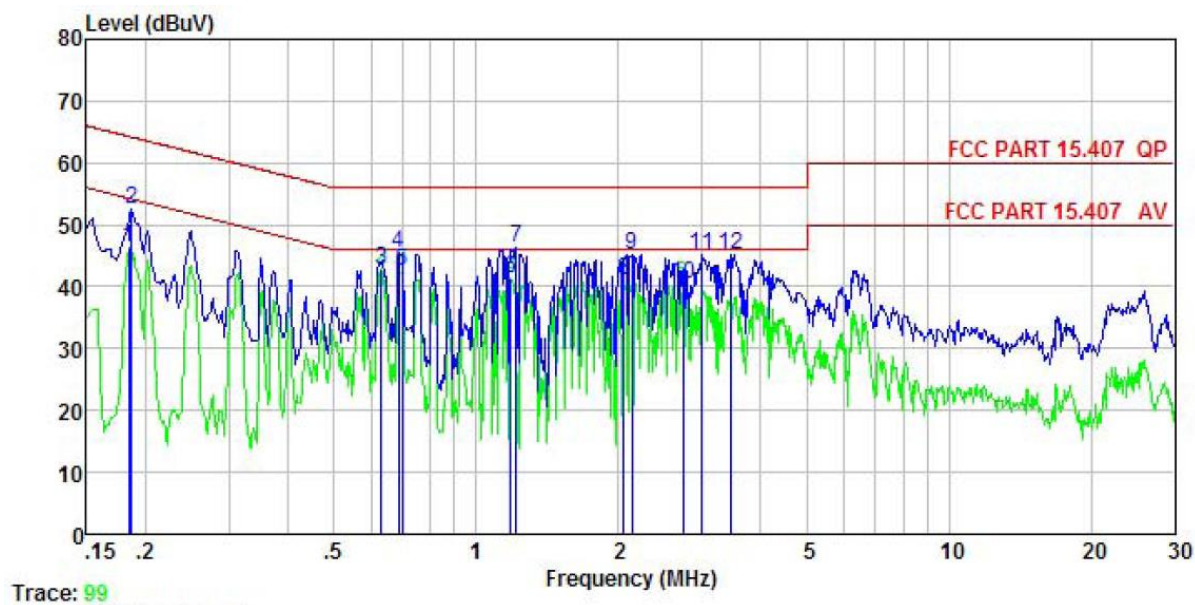


|    | Freq  | Read Level | LISN Factor | Cable Loss | Aux Factor | Level | Limit Line | Over Limit | Remark  |
|----|-------|------------|-------------|------------|------------|-------|------------|------------|---------|
|    | MHz   | dBuV       | dB          | dB         | dB         | dBuV  | dBuV       | dB         |         |
| 1  | 0.186 | 33.77      | -0.59       | 10.76      | -0.13      | 43.81 | 54.20      | -10.39     | Average |
| 2  | 0.701 | 31.99      | -0.53       | 10.77      | -0.40      | 41.83 | 46.00      | -4.17      | Average |
| 3  | 0.767 | 35.99      | -0.55       | 10.80      | -0.19      | 46.05 | 56.00      | -9.95      | QP      |
| 4  | 1.203 | 35.70      | -0.59       | 10.89      | 0.25       | 46.25 | 56.00      | -9.75      | QP      |
| 5  | 1.210 | 31.93      | -0.59       | 10.89      | 0.25       | 42.48 | 46.00      | -3.52      | Average |
| 6  | 1.585 | 38.20      | -0.55       | 10.93      | -0.05      | 48.53 | 56.00      | -7.47      | QP      |
| 7  | 1.645 | 37.53      | -0.54       | 10.93      | -0.10      | 47.82 | 56.00      | -8.18      | QP      |
| 8  | 1.707 | 32.10      | -0.53       | 10.94      | -0.15      | 42.36 | 46.00      | -3.64      | Average |
| 9  | 2.023 | 32.67      | -0.51       | 10.96      | -0.32      | 42.80 | 46.00      | -3.20      | Average |
| 10 | 2.527 | 32.03      | -0.46       | 10.94      | -0.26      | 42.25 | 46.00      | -3.75      | Average |
| 11 | 2.567 | 35.66      | -0.46       | 10.94      | -0.25      | 45.89 | 56.00      | -10.11     | QP      |
| 12 | 3.399 | 35.44      | -0.42       | 10.91      | -0.14      | 45.79 | 56.00      | -10.21     | QP      |

## Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

|                 |                               |                |                        |
|-----------------|-------------------------------|----------------|------------------------|
| Product name:   | Health Management Exoskeleton | Product model: | Mercury-Sports-1901    |
| Test by:        | Janet                         | Test mode:     | 5G Wi-Fi Tx mode       |
| Test frequency: | 150 kHz ~ 30 MHz              | Phase:         | Neutral                |
| Test voltage:   | AC 120 V/60 Hz                | Environment:   | Temp: 22.5°C Humi: 55% |

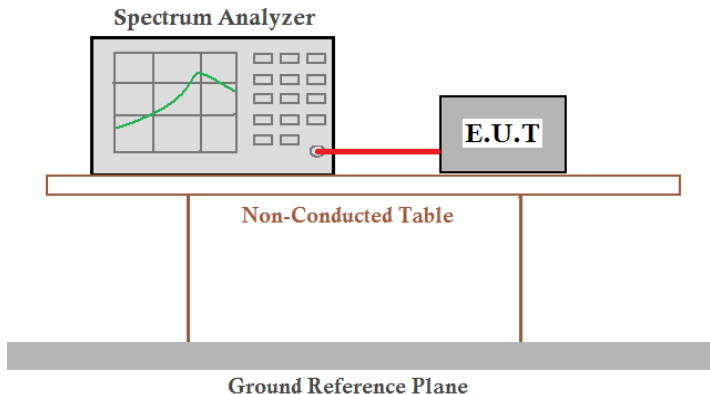


|    | Freq  | Read Level | LISN Factor | Cable Loss | Aux Factor | Level | Limit Line | Over Limit | Remark  |
|----|-------|------------|-------------|------------|------------|-------|------------|------------|---------|
|    | MHz   | dBuV       | dB          | dB         | dB         | dBuV  | dBuV       | dB         |         |
| 1  | 0.184 | 36.12      | -0.68       | 10.76      | 0.00       | 46.20 | 54.28      | -8.08      | Average |
| 2  | 0.186 | 42.44      | -0.67       | 10.76      | 0.00       | 52.53 | 64.20      | -11.67     | QP      |
| 3  | 0.630 | 32.55      | -0.64       | 10.77      | 0.04       | 42.72 | 46.00      | -3.28      | Average |
| 4  | 0.686 | 35.41      | -0.64       | 10.77      | 0.04       | 45.58 | 56.00      | -10.42     | QP      |
| 5  | 0.697 | 32.37      | -0.64       | 10.77      | 0.04       | 42.54 | 46.00      | -3.46      | Average |
| 6  | 1.184 | 31.10      | -0.69       | 10.89      | 0.10       | 41.40 | 46.00      | -4.60      | Average |
| 7  | 1.216 | 35.92      | -0.69       | 10.90      | 0.11       | 46.24 | 56.00      | -9.76      | QP      |
| 8  | 2.055 | 30.60      | -0.71       | 10.96      | 0.18       | 41.03 | 46.00      | -4.97      | Average |
| 9  | 2.133 | 34.68      | -0.70       | 10.95      | 0.19       | 45.12 | 56.00      | -10.88     | QP      |
| 10 | 2.736 | 29.92      | -0.66       | 10.93      | 0.28       | 40.47 | 46.00      | -5.53      | Average |
| 11 | 3.009 | 34.55      | -0.65       | 10.92      | 0.32       | 45.14 | 56.00      | -10.86     | QP      |
| 12 | 3.454 | 34.61      | -0.65       | 10.91      | 0.41       | 45.28 | 56.00      | -10.72     | QP      |

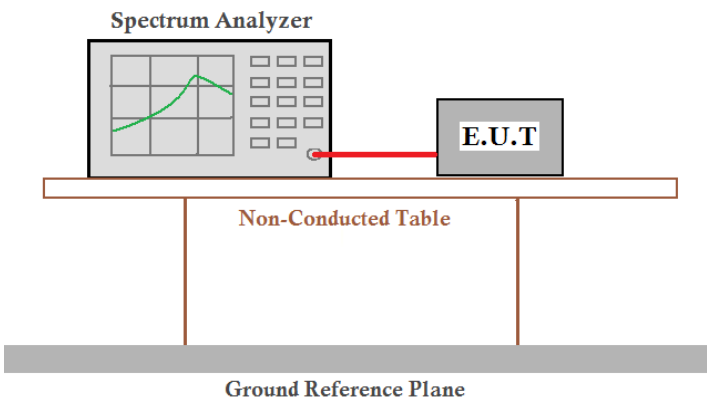
## Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

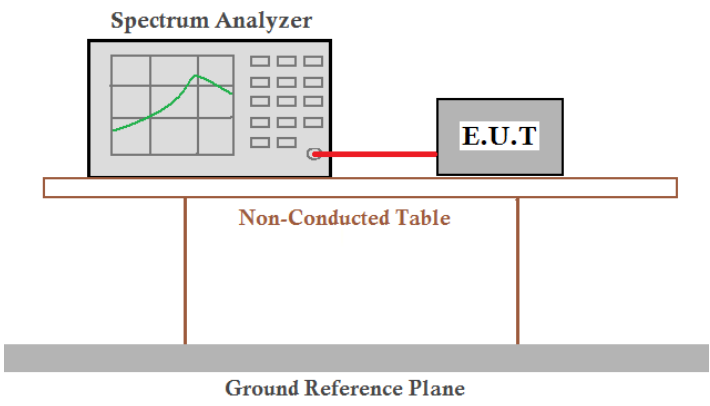
## 6.3 Conducted Output Power

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 E Section 15.407 (a) (1) (iv) & (a)(2) & (a) (3)                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Limit:            | Band 1: 24dBm<br>Band 4: 30dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer, shown with a green trace on its screen, is connected to an E.U.T. (Equipment Under Test) box by a red cable. Both the Spectrum Analyzer and the E.U.T. are positioned on a table labeled 'Non-Conducted Table'. This table is supported by two vertical legs and rests on a thick grey horizontal bar labeled 'Ground Reference Plane'.</p> |
| Test Instruments: | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Test results:     | Please refer to report CCISE200308602                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

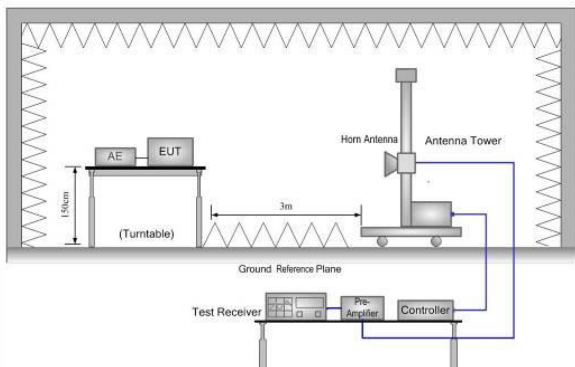
## 6.4 Occupy Bandwidth

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 E Section 15.407 (a) (5) and Section 15.407 (e)                                                                                                                                                                                                                                                                                                                                                                                                         |
| Limit:            | Band 1/2/3/4: N/A (26dB Emission Bandwidth and 99% Occupy Bandwidth)<br>Band 4: >500kHz (6dB Bandwidth)                                                                                                                                                                                                                                                                                                                                                            |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer, shown with a grid and a green curve, is connected to an E.U.T (Equipment Under Test) box by a red cable. Both the Spectrum Analyzer and the E.U.T are resting on a white rectangular table labeled 'Non-Conducted Table'. Below this table is a thick grey horizontal bar labeled 'Ground Reference Plane'.</p> |
| Test Instruments: | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test results:     | Please refer to report CCISE200308602                                                                                                                                                                                                                                                                                                                                                                                                                              |

## 6.5 Power Spectral Density

|                   |                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 E Section 15.407 (a) (1) (iv) & (a) (2) & (a)(3)                                                                                                                                                                                                                                                                                                                        |
| Limit:            | Band 1: 11 dBm/MHz<br>Band 4: 30 dBm/500kHz                                                                                                                                                                                                                                                                                                                                        |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer, shown with a grid and a green curve, is connected by a red cable to a box labeled 'E.U.T.'. Both the Spectrum Analyzer and the E.U.T. are placed on a 'Non-Conducted Table'. Below the table is a 'Ground Reference Plane'.</p> |
| Test Instruments: | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                  |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                   |
| Test results:     | Please refer to report CCISE200308602                                                                                                                                                                                                                                                                                                                                              |

## 6.6 Band Edge

|                   |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                  |
|-------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------|
| Test Requirement: | FCC Part 15 E Section 15.407 (b)                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                  |
| Receiver setup:   | Detector                                                                             | RBW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | VBW    | Remark           |
|                   | Quasi-peak                                                                           | 120kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 300kHz | Quasi-peak Value |
|                   | RMS                                                                                  | 1MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3MHz   | Average Value    |
| Limit:            | Band                                                                                 | Limit (dBuV/m @3m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | Remark           |
|                   | Band 1/2/3                                                                           | 68.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        | Peak Value       |
|                   |                                                                                      | 54.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        | Average Value    |
|                   |                                                                                      | Band 4 limit:<br>For transmitters operating in the 5.725-5.85 GHz band:<br>All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.<br><br>Remark:<br>1. Band 1/2/3 limit:<br>$E[dB\mu V/m] = EIRP[dBm] + 95.2 = 68.2 \text{ dBuV/m}$ , for $EIPR[dBm] = -27 \text{ dBm}$ .<br>2. Band 4 limit:<br>$E[dB\mu V/m] = EIRP[dBm] + 95.2 = 68.2 \text{ dBuV/m}$ , for $EIPR[dBm] = -27 \text{ dBm}$ .<br>$E[dB\mu V/m] = EIRP[dBm] + 95.2 = 105.2 \text{ dBuV/m}$ , for $EIPR[dBm] = 10 \text{ dBm}$ .<br>$E[dB\mu V/m] = EIRP[dBm] + 95.2 = 110.8 \text{ dBuV/m}$ , for $EIPR[dBm] = 15.6 \text{ dBm}$ .<br>$E[dB\mu V/m] = EIRP[dBm] + 95.2 = 122.2 \text{ dBuV/m}$ , for $EIPR[dBm] = 27 \text{ dBm}$ .                                                                                                                                                                                                                                                                      |        |                  |
|                   | Test Procedure:                                                                      | <ol style="list-style-type: none"><li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li><li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li><li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li><li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.</li><li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li><li>If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li></ol> |        |                  |
| Test setup:       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                  |
| Test Instruments: | Refer to section 5.10 for details                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                  |
| Test mode:        | Refer to section 5.3 for details                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                  |
| Test results:     | Passed                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                  |

**Measurement Data (worst case):****left calves:****Band 1:**

| Band 1 – 802.11a                                                                                                                                                                                                                   |                     |                     |                 |                 |                    |                |                     |                 |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|-----------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                                                                                                                                                       |                     |                     |                 |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                               |                     |                     |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                    | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5150.00                                                                                                                                                                                                                            | 48.52               | 31.53               | 7.05            | 2.54            | 41.93              | 47.71          | 68.20               | -20.49          | Horizontal   |
| 5150.00                                                                                                                                                                                                                            | 47.27               | 31.53               | 7.05            | 2.54            | 41.93              | 46.46          | 68.20               | -21.74          | Vertical     |
| Detector: Average Value                                                                                                                                                                                                            |                     |                     |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                    | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5150.00                                                                                                                                                                                                                            | 40.95               | 31.53               | 7.05            | 2.54            | 41.93              | 40.14          | 54.00               | -13.86          | Horizontal   |
| 5150.00                                                                                                                                                                                                                            | 40.03               | 31.53               | 7.05            | 2.54            | 41.93              | 39.22          | 54.00               | -14.78          | Vertical     |
| Test channel: Highest channel                                                                                                                                                                                                      |                     |                     |                 |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                               |                     |                     |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                    | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5350.00                                                                                                                                                                                                                            | 47.21               | 31.97               | 7.11            | 2.61            | 41.89              | 47.01          | 68.20               | -21.19          | Horizontal   |
| 5350.00                                                                                                                                                                                                                            | 47.09               | 31.97               | 7.11            | 2.61            | 41.89              | 46.89          | 68.20               | -21.31          | Vertical     |
| Detector: Average Value                                                                                                                                                                                                            |                     |                     |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                    | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5350.00                                                                                                                                                                                                                            | 39.69               | 31.97               | 7.11            | 2.61            | 41.89              | 39.49          | 54.00               | -14.51          | Horizontal   |
| 5350.00                                                                                                                                                                                                                            | 39.62               | 31.97               | 7.11            | 2.61            | 41.89              | 39.42          | 54.00               | -14.58          | Vertical     |
| <b>Remark:</b><br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                     |                     |                 |                 |                    |                |                     |                 |              |

| Band 1 – 802.11n(HT20)                                                                                                                                                                                                             |                     |                     |                 |                 |                    |                |                     |                 |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|-----------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                                                                                                                                                       |                     |                     |                 |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                               |                     |                     |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                    | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5150.00                                                                                                                                                                                                                            | 46.74               | 31.53               | 7.05            | 2.54            | 41.93              | 45.93          | 68.20               | -22.27          | Horizontal   |
| 5150.00                                                                                                                                                                                                                            | 45.85               | 31.53               | 7.05            | 2.54            | 41.93              | 45.04          | 68.20               | -23.16          | Vertical     |
| Detector: Average Value                                                                                                                                                                                                            |                     |                     |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                    | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5150.00                                                                                                                                                                                                                            | 38.81               | 31.53               | 7.05            | 2.54            | 41.93              | 38.00          | 54.00               | -16.00          | Horizontal   |
| 5150.00                                                                                                                                                                                                                            | 37.33               | 31.53               | 7.05            | 2.54            | 41.93              | 36.52          | 54.00               | -17.48          | Vertical     |
| Test channel: Highest channel                                                                                                                                                                                                      |                     |                     |                 |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                               |                     |                     |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                    | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5350.00                                                                                                                                                                                                                            | 47.62               | 31.97               | 7.11            | 2.61            | 41.89              | 47.42          | 68.20               | -20.78          | Horizontal   |
| 5350.00                                                                                                                                                                                                                            | 47.11               | 31.97               | 7.11            | 2.61            | 41.89              | 46.91          | 68.20               | -21.29          | Vertical     |
| Detector: Average Value                                                                                                                                                                                                            |                     |                     |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                    | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5350.00                                                                                                                                                                                                                            | 39.39               | 31.97               | 7.11            | 2.61            | 41.89              | 39.19          | 54.00               | -14.81          | Horizontal   |
| 5350.00                                                                                                                                                                                                                            | 39.00               | 31.97               | 7.11            | 2.61            | 41.89              | 38.80          | 54.00               | -15.20          | Vertical     |
| <b>Remark:</b><br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                     |                     |                 |                 |                    |                |                     |                 |              |

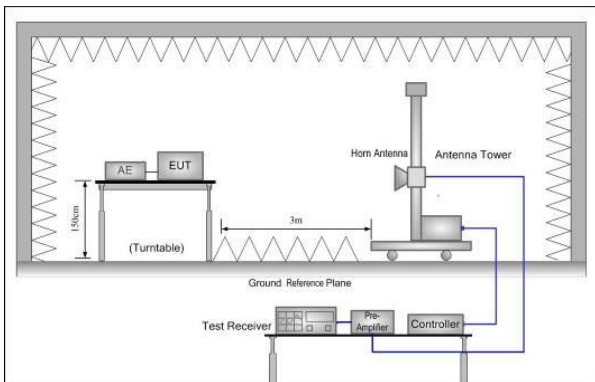
## Band 4:

| Band 4 – 802.11a                                                                                                                                                                                                            |                     |                     |                 |                 |                          |                |                     |                 |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|-----------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                                                                                                                                                |                     |                     |                 |                 |                          |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                        |                     |                     |                 |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                             | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Aux Factor (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5650.00                                                                                                                                                                                                                     | 47.19               | 32.36               | 7.45            | 2.69            | 41.85                    | 47.84          | 68.20               | -20.36          | Horizontal   |
| 5700.00                                                                                                                                                                                                                     | 47.44               | 32.38               | 7.60            | 2.72            | 41.90                    | 48.24          | 105.20              | -56.96          | Horizontal   |
| 5720.00                                                                                                                                                                                                                     | 47.04               | 32.39               | 7.64            | 2.72            | 41.92                    | 47.87          | 110.80              | -62.93          | Horizontal   |
| 5725.00                                                                                                                                                                                                                     | 47.75               | 32.39               | 7.69            | 2.72            | 41.94                    | 48.61          | 122.20              | -73.59          | Horizontal   |
| 5650.00                                                                                                                                                                                                                     | 47.55               | 32.36               | 7.45            | 2.69            | 41.85                    | 48.20          | 68.20               | -20.00          | Vertical     |
| 5700.00                                                                                                                                                                                                                     | 47.27               | 32.38               | 7.60            | 2.72            | 41.90                    | 48.07          | 105.20              | -57.13          | Vertical     |
| 5720.00                                                                                                                                                                                                                     | 47.70               | 32.39               | 7.64            | 2.72            | 41.92                    | 48.53          | 110.80              | -62.27          | Vertical     |
| 5725.00                                                                                                                                                                                                                     | 49.11               | 32.39               | 7.69            | 2.72            | 41.94                    | 49.97          | 122.20              | -72.23          | Vertical     |
| Test channel: Highest channel                                                                                                                                                                                               |                     |                     |                 |                 |                          |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                        |                     |                     |                 |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                             | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Aux Factor (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5850.00                                                                                                                                                                                                                     | 49.36               | 32.44               | 7.90            | 2.69            | 42.03                    | 50.36          | 122.20              | -71.84          | Horizontal   |
| 5855.00                                                                                                                                                                                                                     | 47.68               | 32.44               | 7.90            | 2.72            | 42.03                    | 48.71          | 110.80              | -62.09          | Horizontal   |
| 5875.00                                                                                                                                                                                                                     | 48.04               | 32.45               | 7.91            | 2.72            | 42.03                    | 49.09          | 105.20              | -56.11          | Horizontal   |
| 5925.00                                                                                                                                                                                                                     | 48.43               | 32.47               | 7.92            | 2.72            | 42.04                    | 49.50          | 68.20               | -18.70          | Horizontal   |
| 5850.00                                                                                                                                                                                                                     | 48.07               | 32.44               | 7.90            | 2.69            | 42.03                    | 49.07          | 122.20              | -73.13          | Vertical     |
| 5855.00                                                                                                                                                                                                                     | 47.53               | 32.44               | 7.90            | 2.72            | 42.03                    | 48.56          | 110.80              | -62.24          | Vertical     |
| 5875.00                                                                                                                                                                                                                     | 48.24               | 32.45               | 7.91            | 2.72            | 42.03                    | 49.29          | 105.20              | -55.91          | Vertical     |
| 5925.00                                                                                                                                                                                                                     | 47.57               | 32.47               | 7.92            | 2.72            | 42.04                    | 48.64          | 68.20               | -19.56          | Vertical     |
| Remark:<br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                     |                     |                 |                 |                          |                |                     |                 |              |

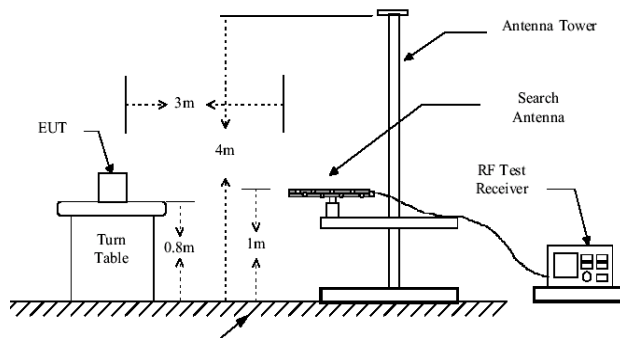
| Band 4 – 802.11n(HT20)                                                                                                                                                                                                      |                     |                     |                 |                 |                          |                |                     |                 |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|-----------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                                                                                                                                                |                     |                     |                 |                 |                          |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                        |                     |                     |                 |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                             | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Aux Factor (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5650.00                                                                                                                                                                                                                     | 47.53               | 32.36               | 7.45            | 2.69            | 41.85                    | 48.18          | 68.20               | -20.02          | Horizontal   |
| 5700.00                                                                                                                                                                                                                     | 46.60               | 32.38               | 7.60            | 2.72            | 41.90                    | 47.40          | 105.20              | -57.80          | Horizontal   |
| 5720.00                                                                                                                                                                                                                     | 47.58               | 32.39               | 7.64            | 2.72            | 41.92                    | 48.41          | 110.80              | -62.39          | Horizontal   |
| 5725.00                                                                                                                                                                                                                     | 53.59               | 32.39               | 7.69            | 2.72            | 41.94                    | 54.45          | 122.20              | -67.75          | Horizontal   |
| 5650.00                                                                                                                                                                                                                     | 47.29               | 32.36               | 7.45            | 2.69            | 41.85                    | 47.94          | 68.20               | -20.26          | Vertical     |
| 5700.00                                                                                                                                                                                                                     | 47.62               | 32.38               | 7.60            | 2.72            | 41.90                    | 48.42          | 105.20              | -56.78          | Vertical     |
| 5720.00                                                                                                                                                                                                                     | 47.00               | 32.39               | 7.64            | 2.72            | 41.92                    | 47.83          | 110.80              | -62.97          | Vertical     |
| 5725.00                                                                                                                                                                                                                     | 46.68               | 32.39               | 7.69            | 2.72            | 41.94                    | 47.54          | 122.20              | -74.66          | Vertical     |
| Test channel: Highest channel                                                                                                                                                                                               |                     |                     |                 |                 |                          |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                        |                     |                     |                 |                 |                          |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                             | Read Level (dBuV/m) | Antenna Factor (dB) | Cable Loss (dB) | Aux Factor (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5850.00                                                                                                                                                                                                                     | 47.27               | 32.44               | 7.90            | 2.69            | 42.03                    | 48.27          | 122.20              | -73.93          | Horizontal   |
| 5855.00                                                                                                                                                                                                                     | 46.91               | 32.44               | 7.90            | 2.72            | 42.03                    | 47.94          | 110.80              | -62.86          | Horizontal   |
| 5875.00                                                                                                                                                                                                                     | 48.37               | 32.45               | 7.91            | 2.72            | 42.03                    | 49.42          | 105.20              | -55.78          | Horizontal   |
| 5925.00                                                                                                                                                                                                                     | 46.71               | 32.47               | 7.92            | 2.72            | 42.04                    | 47.78          | 68.20               | -20.42          | Horizontal   |
| 5850.00                                                                                                                                                                                                                     | 44.76               | 32.44               | 7.90            | 2.69            | 42.03                    | 45.76          | 122.20              | -76.44          | Vertical     |
| 5855.00                                                                                                                                                                                                                     | 44.10               | 32.44               | 7.90            | 2.72            | 42.03                    | 45.13          | 110.80              | -65.67          | Vertical     |
| 5875.00                                                                                                                                                                                                                     | 44.32               | 32.45               | 7.91            | 2.72            | 42.03                    | 45.37          | 105.20              | -59.83          | Vertical     |
| 5925.00                                                                                                                                                                                                                     | 45.05               | 32.47               | 7.92            | 2.72            | 42.04                    | 46.12          | 68.20               | -22.08          | Vertical     |
| Remark:<br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                     |                     |                 |                 |                          |                |                     |                 |              |

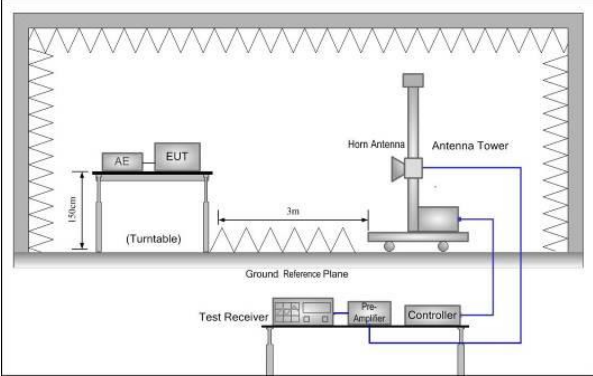
## 6.7 Spurious Emission

### 6.7.1 Restricted Band

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |      |               |               |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------|---------------|---------------|
| Test Requirement:     | FCC Part15 E Section 15.407(b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |      |               |               |
| Test Frequency Range: | 4.5 GHz to 5.15 GHz and 5.35GHz to 5.46GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |      |               |               |
| Test site:            | Measurement Distance: 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |      |               |               |
| Receiver setup:       | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Detector           | RBW  | VBW           | Remark        |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Peak               | 1MHz | 3MHz          | Peak Value    |
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RMS                | 1MHz | 3MHz          | Average Value |
| Limit:                | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Limit (dBuV/m @3m) |      | Remark        |               |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 74.00              |      | Peak Value    |               |
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 54.00              |      | Average Value |               |
| Test Procedure:       | <div>1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div> <div>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</div> <div>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</div> <div>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div> <div>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</div> |                    |      |               |               |
| Test setup:           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |      |               |               |
| Test Instruments:     | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |      |               |               |
| Test mode:            | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |      |               |               |
| Test results:         | Passed(Refer to section 6.6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |      |               |               |

## 6.7.2 Unwanted Emissions out of the Restricted Bands

|                                                                                  |                                                                                                                                                                                                                                                                                                                                                        |            |                    |        |                  |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|--------|------------------|
| Test Requirement:                                                                | FCC Part15 C Section 15.209 and 15.205                                                                                                                                                                                                                                                                                                                 |            |                    |        |                  |
| Test Frequency Range:                                                            | 30MHz to 40GHz                                                                                                                                                                                                                                                                                                                                         |            |                    |        |                  |
| Test site:                                                                       | Measurement Distance: 3m                                                                                                                                                                                                                                                                                                                               |            |                    |        |                  |
| Receiver setup:                                                                  | Frequency                                                                                                                                                                                                                                                                                                                                              | Detector   | RBW                | VBW    | Remark           |
|                                                                                  | 30MHz-1GHz                                                                                                                                                                                                                                                                                                                                             | Quasi-peak | 100kHz             | 300kHz | Quasi-peak Value |
|                                                                                  | Above 1GHz                                                                                                                                                                                                                                                                                                                                             | Peak       | 1MHz               | 3MHz   | Peak Value       |
|                                                                                  |                                                                                                                                                                                                                                                                                                                                                        | RMS        | 1MHz               | 3MHz   | Average Value    |
| Limit:                                                                           | Frequency                                                                                                                                                                                                                                                                                                                                              |            | Limit (dBuV/m @3m) |        | Remark           |
|                                                                                  | 30MHz-88MHz                                                                                                                                                                                                                                                                                                                                            |            | 40.0               |        | Quasi-peak Value |
|                                                                                  | 88MHz-216MHz                                                                                                                                                                                                                                                                                                                                           |            | 43.5               |        | Quasi-peak Value |
|                                                                                  | 216MHz-960MHz                                                                                                                                                                                                                                                                                                                                          |            | 46.0               |        | Quasi-peak Value |
|                                                                                  | 960MHz-1GHz                                                                                                                                                                                                                                                                                                                                            |            | 54.0               |        | Quasi-peak Value |
|                                                                                  | Above 1GHz                                                                                                                                                                                                                                                                                                                                             |            | 68.20              |        | Peak Value       |
|                                                                                  |                                                                                                                                                                                                                                                                                                                                                        |            | 54.00              |        | Average Value    |
|                                                                                  |                                                                                                                                                                                                                                                                                                                                                        |            |                    |        |                  |
|                                                                                  | Remark:                                                                                                                                                                                                                                                                                                                                                |            |                    |        |                  |
|                                                                                  | Above 1GHz limit:                                                                                                                                                                                                                                                                                                                                      |            |                    |        |                  |
| $E[dB\mu V/m] = EIRP[dBm] + 95.2=68.2 \text{ dBuV/m}$ , for $EIPR[dBm]=-27dBm$ . |                                                                                                                                                                                                                                                                                                                                                        |            |                    |        |                  |
| Test Procedure:                                                                  | 1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.                                                                                                                                     |            |                    |        |                  |
|                                                                                  | 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.                                                                                                                                                                                                             |            |                    |        |                  |
|                                                                                  | 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.                                                                                                                        |            |                    |        |                  |
|                                                                                  | 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.                                                                                                                     |            |                    |        |                  |
|                                                                                  | 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.                                                                                                                                                                                                                                            |            |                    |        |                  |
|                                                                                  | 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. |            |                    |        |                  |
|                                                                                  |                                                                                                                                                                                                                                                                                                                                                        |            |                    |        |                  |
| Test setup:                                                                      | Below 1GHz                                                                                                                                                                                                                                                                                                                                             |            |                    |        |                  |
|                                                                                  | <div></div>                                                                                                                                                                                                                                                        |            |                    |        |                  |
|                                                                                  | Above 1GHz                                                                                                                                                                                                                                                                                                                                             |            |                    |        |                  |

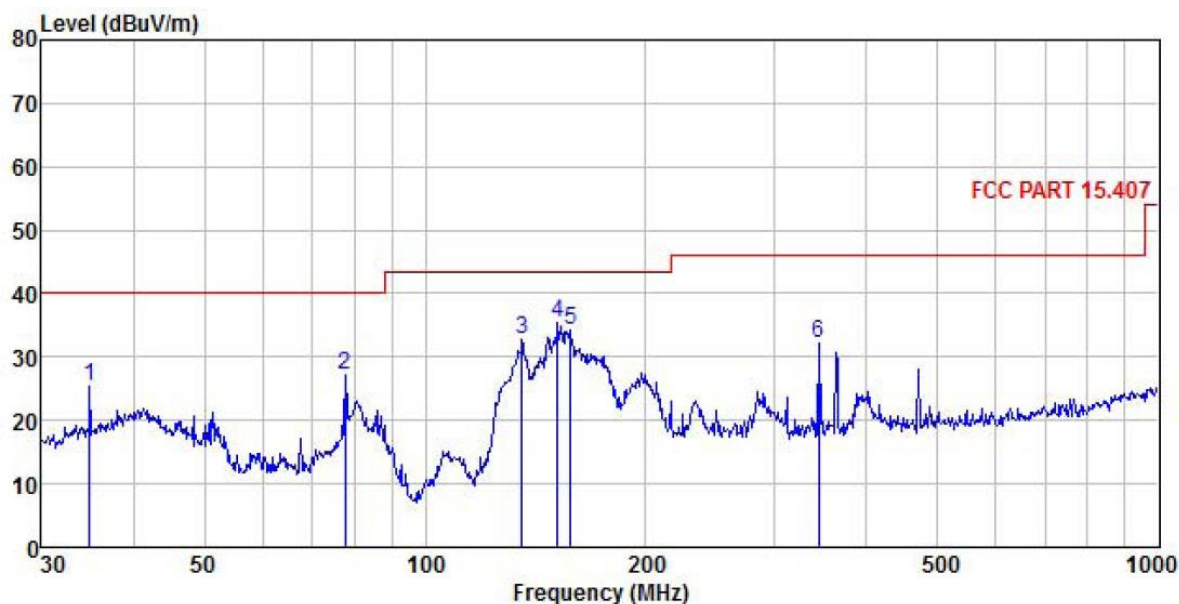
|                   |                                                                                    |
|-------------------|------------------------------------------------------------------------------------|
|                   |  |
| Test Instruments: | Refer to section 5.10 for details                                                  |
| Test mode:        | Refer to section 5.3 for details                                                   |
| Test results:     | Passed                                                                             |

## Measurement Data (worst case):

left calves:

Below 1GHz

|                 |                               |                |                     |
|-----------------|-------------------------------|----------------|---------------------|
| Product Name:   | Health Management Exoskeleton | Product Model: | Mercury-Sports-1901 |
| Test By:        | Janet                         | Test mode:     | 5G Wi-Fi Tx mode    |
| Test Frequency: | 30 MHz ~ 1 GHz                | Polarization:  | Vertical            |
| Test Voltage:   | AC 120/60Hz                   | Environment:   | Temp: 24℃ Humi: 57% |

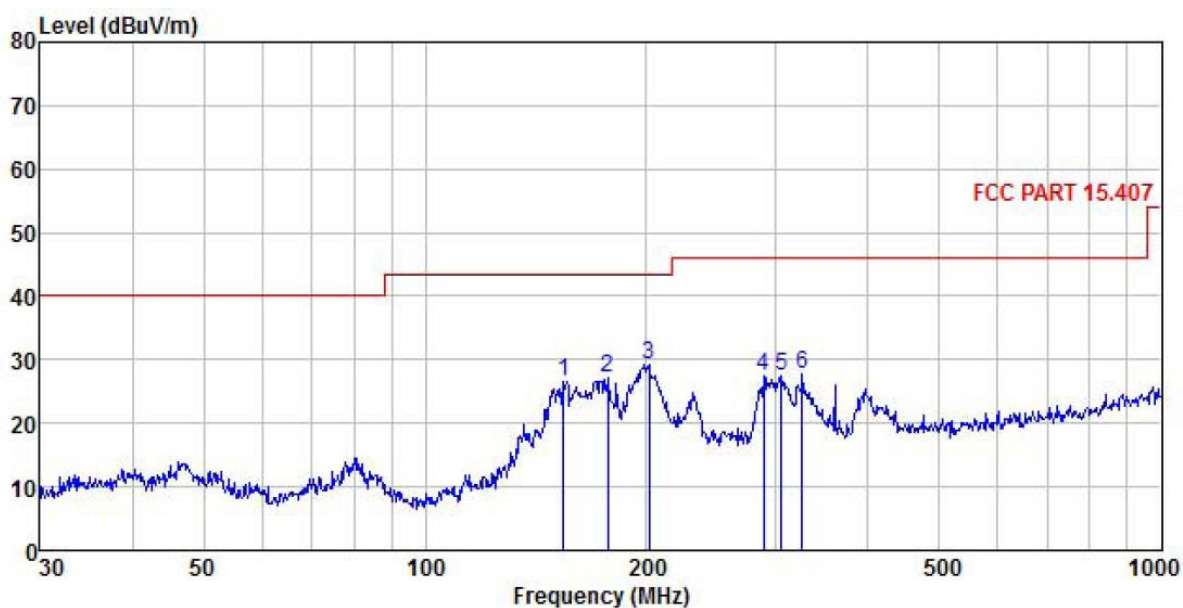


|   | Freq    | Read Level | Antenna Factor | Cable Loss | Aux Factor | Preamp Factor | Level  | Limit  | Over Limit | Remark |
|---|---------|------------|----------------|------------|------------|---------------|--------|--------|------------|--------|
|   | MHz     | dBuV       | dB/m           | dB         | dB         | dB            | dBuV/m | dBuV/m | dB         |        |
| 1 | 34.882  | 42.28      | 12.58          | 0.34       | 0.00       | 29.95         | 25.25  | 40.00  | -14.75     | QP     |
| 2 | 77.865  | 43.98      | 12.25          | 0.47       | 0.00       | 29.66         | 27.04  | 40.00  | -12.96     | QP     |
| 3 | 135.506 | 47.86      | 13.53          | 0.59       | 0.00       | 29.30         | 32.68  | 43.50  | -10.82     | QP     |
| 4 | 151.597 | 49.72      | 14.33          | 0.62       | 0.00       | 29.21         | 35.46  | 43.50  | -8.04      | QP     |
| 5 | 158.112 | 47.55      | 15.13          | 0.63       | 0.00       | 29.15         | 34.16  | 43.50  | -9.34      | QP     |
| 6 | 344.386 | 40.98      | 18.79          | 0.92       | 0.00       | 28.55         | 32.14  | 46.00  | -13.86     | QP     |

## Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

|                 |                               |                |                     |
|-----------------|-------------------------------|----------------|---------------------|
| Product Name:   | Health Management Exoskeleton | Product Model: | Mercury-Sports-1901 |
| Test By:        | Janet                         | Test mode:     | 5G Wi-Fi Tx mode    |
| Test Frequency: | 30 MHz ~ 1 GHz                | Polarization:  | Horizontal          |
| Test Voltage:   | AC 120/60Hz                   | Environment:   | Temp: 24℃ Humi: 57% |



|   | Freq    | Read Level | Antenna Factor | Cable Loss | Aux Factor | Preamp Factor | Level  | Limit  | Over Limit | Remark |
|---|---------|------------|----------------|------------|------------|---------------|--------|--------|------------|--------|
|   | MHz     | dBuV       | dB/m           | dB         | dB         | dB            | dBuV/m | dBuV/m | dB         |        |
| 1 | 154.279 | 40.83      | 14.39          | 0.62       | 0.00       | 29.18         | 26.66  | 43.50  | -16.84     | QP     |
| 2 | 176.888 | 38.59      | 16.84          | 0.67       | 0.00       | 29.00         | 27.10  | 43.50  | -16.40     | QP     |
| 3 | 201.393 | 39.03      | 18.31          | 0.72       | 0.00       | 28.82         | 29.24  | 43.50  | -14.26     | QP     |
| 4 | 287.990 | 36.29      | 18.65          | 0.85       | 0.00       | 28.47         | 27.32  | 46.00  | -18.68     | QP     |
| 5 | 304.610 | 36.26      | 18.71          | 0.87       | 0.00       | 28.46         | 27.38  | 46.00  | -18.62     | QP     |
| 6 | 325.596 | 36.74      | 18.75          | 0.90       | 0.00       | 28.51         | 27.88  | 46.00  | -18.12     | QP     |

## Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Above 1GHz:

left calves:

Band 1:

| Band 1 – 802.11a                                                                                       |                   |                       |                 |                 |                    |                |                     |                 |              |
|--------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-----------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                           |                   |                       |                 |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10360.00                                                                                               | 35.42             | 38.83                 | 9.82            | 3.95            | 41.97              | 46.05          | 68.20               | -22.15          | Vertical     |
| 10360.00                                                                                               | 35.86             | 38.83                 | 9.82            | 3.95            | 41.97              | 46.49          | 68.20               | -21.71          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10360.00                                                                                               | 29.08             | 38.83                 | 9.82            | 3.95            | 41.97              | 39.71          | 54.00               | -14.29          | Vertical     |
| 10360.00                                                                                               | 30.87             | 38.83                 | 9.82            | 3.95            | 41.97              | 41.50          | 54.00               | -12.50          | Horizontal   |
| Test channel: Middle channel                                                                           |                   |                       |                 |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10400.00                                                                                               | 34.95             | 38.87                 | 9.85            | 3.98            | 41.95              | 45.70          | 68.20               | -22.50          | Vertical     |
| 10400.00                                                                                               | 35.81             | 38.87                 | 9.85            | 3.98            | 41.95              | 46.56          | 68.20               | -21.64          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10400.00                                                                                               | 29.31             | 38.87                 | 9.85            | 3.98            | 41.95              | 40.06          | 54.00               | -13.94          | Vertical     |
| 10400.00                                                                                               | 30.53             | 38.87                 | 9.85            | 3.98            | 41.95              | 41.28          | 54.00               | -12.72          | Horizontal   |
| Test channel: Highest channel                                                                          |                   |                       |                 |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10480.00                                                                                               | 35.09             | 38.94                 | 9.96            | 4.02            | 41.88              | 46.13          | 68.20               | -22.07          | Vertical     |
| 10480.00                                                                                               | 36.21             | 38.94                 | 9.96            | 4.02            | 41.88              | 47.25          | 68.20               | -20.95          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10480.00                                                                                               | 28.72             | 38.94                 | 9.96            | 4.02            | 41.88              | 39.76          | 54.00               | -14.24          | Vertical     |
| 10480.00                                                                                               | 30.40             | 38.94                 | 9.96            | 4.02            | 41.88              | 41.44          | 54.00               | -12.56          | Horizontal   |
| Remark:                                                                                                |                   |                       |                 |                 |                    |                |                     |                 |              |
| 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. |                   |                       |                 |                 |                    |                |                     |                 |              |
| 2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                   |                       |                 |                 |                    |                |                     |                 |              |

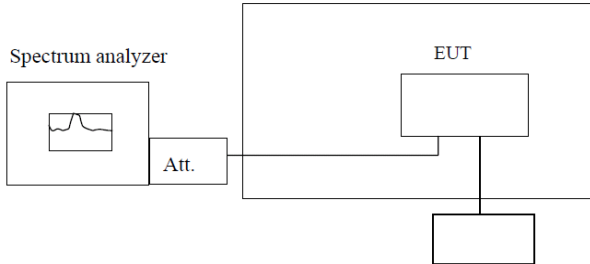
| Band 1 – 802.11n(HT20)                                                                                 |                   |                       |                 |                 |                    |                |                     |                 |              |
|--------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-----------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                           |                   |                       |                 |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10360.00                                                                                               | 35.37             | 38.83                 | 9.82            | 3.95            | 41.97              | 46.00          | 68.20               | -22.20          | Vertical     |
| 10360.00                                                                                               | 36.24             | 38.83                 | 9.82            | 3.95            | 41.97              | 46.87          | 68.20               | -21.33          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10360.00                                                                                               | 28.74             | 38.83                 | 9.82            | 3.95            | 41.97              | 39.37          | 54.00               | -14.63          | Vertical     |
| 10360.00                                                                                               | 30.43             | 38.83                 | 9.82            | 3.95            | 41.97              | 41.06          | 54.00               | -12.94          | Horizontal   |
| Test channel: Middle channel                                                                           |                   |                       |                 |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10400.00                                                                                               | 35.26             | 38.87                 | 9.85            | 3.98            | 41.95              | 46.01          | 68.20               | -22.19          | Vertical     |
| 10400.00                                                                                               | 35.81             | 38.87                 | 9.85            | 3.98            | 41.95              | 46.56          | 68.20               | -21.64          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10400.00                                                                                               | 28.59             | 38.87                 | 9.85            | 3.98            | 41.95              | 39.34          | 54.00               | -14.66          | Vertical     |
| 10400.00                                                                                               | 30.18             | 38.87                 | 9.85            | 3.98            | 41.95              | 40.93          | 54.00               | -13.07          | Horizontal   |
| Test channel: Highest channel                                                                          |                   |                       |                 |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10480.00                                                                                               | 35.81             | 38.94                 | 9.96            | 4.02            | 41.88              | 46.85          | 68.20               | -21.35          | Vertical     |
| 10480.00                                                                                               | 36.92             | 38.94                 | 9.96            | 4.02            | 41.88              | 47.96          | 68.20               | -20.24          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 10480.00                                                                                               | 29.01             | 38.94                 | 9.96            | 4.02            | 41.88              | 40.05          | 54.00               | -13.95          | Vertical     |
| 10480.00                                                                                               | 30.76             | 38.94                 | 9.96            | 4.02            | 41.88              | 41.80          | 54.00               | -12.20          | Horizontal   |
| Remark:                                                                                                |                   |                       |                 |                 |                    |                |                     |                 |              |
| 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. |                   |                       |                 |                 |                    |                |                     |                 |              |
| 2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                   |                       |                 |                 |                    |                |                     |                 |              |

## Band 4:

| Band 4 – 802.11a                                                                                                                                                                                                                   |                   |                       |                 |                 |                    |                |                     |                 |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-----------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                                                                                                                                                       |                   |                       |                 |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                               |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11490.00                                                                                                                                                                                                                           | 36.97             | 39.50                 | 10.81           | 4.21            | 42.29              | 44.99          | 74.00               | -29.01          | Vertical     |
| 11490.00                                                                                                                                                                                                                           | 36.53             | 39.50                 | 10.81           | 4.21            | 42.29              | 44.55          | 74.00               | -29.45          | Horizontal   |
| Detector: Average Value                                                                                                                                                                                                            |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11490.00                                                                                                                                                                                                                           | 30.03             | 39.50                 | 10.81           | 4.21            | 42.29              | 38.05          | 54.00               | -15.95          | Vertical     |
| 11490.00                                                                                                                                                                                                                           | 30.01             | 39.50                 | 10.81           | 4.21            | 42.29              | 38.03          | 54.00               | -15.97          | Horizontal   |
| Test channel: Middle channel                                                                                                                                                                                                       |                   |                       |                 |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                               |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11570.00                                                                                                                                                                                                                           | 37.40             | 39.52                 | 10.78           | 4.21            | 42.27              | 45.43          | 74.00               | -28.57          | Vertical     |
| 11570.00                                                                                                                                                                                                                           | 36.88             | 39.52                 | 10.78           | 4.21            | 42.27              | 44.91          | 74.00               | -29.09          | Horizontal   |
| Detector: Average Value                                                                                                                                                                                                            |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11570.00                                                                                                                                                                                                                           | 30.17             | 39.52                 | 10.78           | 4.21            | 42.27              | 38.20          | 54.00               | -15.80          | Vertical     |
| 11570.00                                                                                                                                                                                                                           | 29.54             | 39.52                 | 10.78           | 4.21            | 42.27              | 37.57          | 54.00               | -16.43          | Horizontal   |
| Test channel: Highest channel                                                                                                                                                                                                      |                   |                       |                 |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                                                                                                                                               |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11650.00                                                                                                                                                                                                                           | 36.59             | 39.53                 | 10.76           | 4.21            | 42.26              | 44.62          | 74.00               | -29.38          | Vertical     |
| 11650.00                                                                                                                                                                                                                           | 36.99             | 39.53                 | 10.76           | 4.21            | 42.26              | 45.02          | 74.00               | -28.98          | Horizontal   |
| Detector: Average Value                                                                                                                                                                                                            |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                                                                                                                                                    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11650.00                                                                                                                                                                                                                           | 29.75             | 39.53                 | 10.76           | 4.21            | 42.26              | 37.78          | 54.00               | -16.22          | Vertical     |
| 11650.00                                                                                                                                                                                                                           | 29.95             | 39.53                 | 10.76           | 4.21            | 42.26              | 37.98          | 54.00               | -16.02          | Horizontal   |
| <b>Remark:</b><br>1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor.<br>2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                   |                       |                 |                 |                    |                |                     |                 |              |

| Band 4 – 802.11n(HT20)                                                                                 |                   |                       |                 |                 |                    |                |                     |                 |              |
|--------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-----------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Test channel: Lowest channel                                                                           |                   |                       |                 |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11490.00                                                                                               | 36.96             | 39.50                 | 10.81           | 4.21            | 42.29              | 44.98          | 74.00               | -29.02          | Vertical     |
| 11490.00                                                                                               | 36.43             | 39.50                 | 10.81           | 4.21            | 42.29              | 44.45          | 74.00               | -29.55          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11490.00                                                                                               | 29.73             | 39.50                 | 10.81           | 4.21            | 42.29              | 37.75          | 54.00               | -16.25          | Vertical     |
| 11490.00                                                                                               | 30.10             | 39.50                 | 10.81           | 4.21            | 42.29              | 38.12          | 54.00               | -15.88          | Horizontal   |
| Test channel: Middle channel                                                                           |                   |                       |                 |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11570.00                                                                                               | 36.89             | 39.52                 | 10.78           | 4.21            | 42.27              | 44.92          | 74.00               | -29.08          | Vertical     |
| 11570.00                                                                                               | 36.21             | 39.52                 | 10.78           | 4.21            | 42.27              | 44.24          | 74.00               | -29.76          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11570.00                                                                                               | 29.76             | 39.52                 | 10.78           | 4.21            | 42.27              | 37.79          | 54.00               | -16.21          | Vertical     |
| 11570.00                                                                                               | 30.09             | 39.52                 | 10.78           | 4.21            | 42.27              | 38.12          | 54.00               | -15.88          | Horizontal   |
| Test channel: Highest channel                                                                          |                   |                       |                 |                 |                    |                |                     |                 |              |
| Detector: Peak Value                                                                                   |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11650.00                                                                                               | 37.32             | 39.53                 | 10.76           | 4.21            | 42.26              | 45.35          | 74.00               | -28.65          | Vertical     |
| 11650.00                                                                                               | 36.80             | 39.53                 | 10.76           | 4.21            | 42.26              | 44.83          | 74.00               | -29.17          | Horizontal   |
| Detector: Average Value                                                                                |                   |                       |                 |                 |                    |                |                     |                 |              |
| Frequency (MHz)                                                                                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 11650.00                                                                                               | 29.58             | 39.53                 | 10.76           | 4.21            | 42.26              | 37.61          | 54.00               | -16.39          | Vertical     |
| 11650.00                                                                                               | 29.71             | 39.53                 | 10.76           | 4.21            | 42.26              | 37.74          | 54.00               | -16.26          | Horizontal   |
| Remark:                                                                                                |                   |                       |                 |                 |                    |                |                     |                 |              |
| 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. |                   |                       |                 |                 |                    |                |                     |                 |              |
| 2. The emission levels of other frequencies are very lower than the limit and not show in test report. |                   |                       |                 |                 |                    |                |                     |                 |              |

## 6.8 Frequency stability

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 E Section 15.407 (g)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Limit:            | Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test setup:       | <p style="text-align: center;">Temperature Chamber</p>  <p style="text-align: center;">Variable Power Supply</p> <p><b>Note :</b> Measurement setup for testing on Antenna connector</p>                                                                                                                                                                                                                                                                                                                                                                            |
| Test procedure:   | <ol style="list-style-type: none"> <li>1. The EUT is installed in an environment test chamber with external power source.</li> <li>2. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT.</li> <li>3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.</li> <li>4. When temperature is stabled, measure the frequency stability.</li> <li>5. The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.</li> </ol> |
| Test Instruments: | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Measurement Data (the worst channel):

## Band 1:

## Voltage vs. Frequency Stability (Lowest channel=5180MHz)

| Test conditions |             | Frequency(MHz) | Max. Deviation (ppm) |
|-----------------|-------------|----------------|----------------------|
| Temp(°C)        | Voltage(ac) |                |                      |
| 20              | 3.20V       | 5179.997643    | 0.45                 |
|                 | 3.70V       | 5179.974779    | 4.87                 |
|                 | 4.25V       | 5179.963951    | 6.96                 |

## Temperature vs. Frequency Stability (Lowest channel=5180MHz)

| Test conditions |          | Frequency(MHz) | Max. Deviation (ppm) |
|-----------------|----------|----------------|----------------------|
| Voltage(ac)     | Temp(°C) |                |                      |
| 3.70V           | -20      | 5179.987033    | 2.50                 |
|                 | -10      | 5179.995377    | 0.89                 |
|                 | 0        | 5179.968421    | 6.10                 |
|                 | 10       | 5179.987556    | 2.40                 |
|                 | 20       | 5179.996681    | 0.64                 |
|                 | 30       | 5179.974290    | 4.96                 |
|                 | 40       | 5179.963775    | 6.99                 |
|                 | 50       | 5179.974929    | 4.84                 |

## Band 4:

## Voltage vs. Frequency Stability (Lowest channel=5745MHz)

| Test conditions |             | Frequency(MHz) | Max. Deviation (ppm) |
|-----------------|-------------|----------------|----------------------|
| Temp(°C)        | Voltage(ac) |                |                      |
| 20              | 3.20V       | 5744.974766    | 4.39                 |
|                 | 3.70V       | 5744.993381    | 1.15                 |
|                 | 4.25V       | 5744.998588    | 0.25                 |

## Temperature vs. Frequency Stability (Lowest channel=5745MHz)

| Test conditions |          | Frequency(MHz) | Max. Deviation (ppm) |
|-----------------|----------|----------------|----------------------|
| Voltage(ac)     | Temp(°C) |                |                      |
| 3.70V           | -20      | 5744.994798    | 0.91                 |
|                 | -10      | 5744.993693    | 1.10                 |
|                 | 0        | 5744.994771    | 0.91                 |
|                 | 10       | 5744.985355    | 2.55                 |
|                 | 20       | 5744.993864    | 1.07                 |
|                 | 30       | 5744.994481    | 0.96                 |
|                 | 40       | 5744.999347    | 0.11                 |
|                 | 50       | 5744.992458    | 1.31                 |