

# **FCC REPORT**

## **(WIFI)**

**Applicant:** Libre Wireless Technologies Inc.

**Address of Applicant:** 2100 Geng Road, Suite 210 Palo Alto, CA 94303, USA

**Equipment Under Test (EUT)**

Product Name: WiFi Media Streaming Module

Model No.: LS9AD-AC11DBT

Trade mark: 

**FCC ID:** 2ADBM-LS9ADAC11DBT

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.247

**Date of sample receipt:** 19 Nov., 2018

**Date of Test:** 20 Nov., to 05 Dec., 2018

**Date of report issued:** 06 Dec., 2018

**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.

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## 2 Version

| Version No. | Date          | Description                                                                                                                                                                                                                                                                                                                    |
|-------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 00          | 06 Dec., 2018 | <p><i>This report was amended on FCC ID: 2ADBM-LS9ADAC11DBT follow FCC Class II Permissive Change. The differences between them are below: Manufacturer, manufacturer address, factory, factory address and add a rod antenna.</i></p> <p><i>Base on the differences description, the Radiation method were re-tested.</i></p> |
|             |               |                                                                                                                                                                                                                                                                                                                                |
|             |               |                                                                                                                                                                                                                                                                                                                                |
|             |               |                                                                                                                                                                                                                                                                                                                                |
|             |               |                                                                                                                                                                                                                                                                                                                                |

**Tested by:**

*YT Yang*

**Date:**

06 Dec., 2018

**Test Engineer**

**Reviewed by:**

*Wimer Zhang*

**Date:**

06 Dec., 2018

**Project Engineer**

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## 4 Test Summary

| Test Item                                        | Section in CFR 47 | Result |
|--------------------------------------------------|-------------------|--------|
| Antenna requirement                              | 15.203/15.247 (c) | Pass   |
| AC Power Line Conducted Emission                 | 15.207            | Pass*  |
| Conducted Peak Output Power                      | 15.247 (b)(3)     | Pass*  |
| 6dB Emission Bandwidth<br>99% Occupied Bandwidth | 15.247 (a)(2)     | Pass*  |
| Power Spectral Density                           | 15.247 (e)        | Pass*  |
| Band Edge                                        | 15.247(d)         | Pass   |
| Conducted and Radiated Spurious Emission         | 15.205/15.209     | Pass   |

*Pass: The EUT complies with the essential requirements in the standard.*

*Pass\*: Please refer to the FCC ID: 2ADBM-LS9ADAC11DBT*

## 5 General Information

### 5.1 Client Information

|                          |                                                                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant:               | Libre Wireless Technologies Inc.                                                                                                                 |
| Address of Applicant:    | 2100 Geng Road, Suite 210 Palo Alto, CA 94303, USA                                                                                               |
| Manufacturer:            | Shenzhen Zowee Technology Co., Ltd.                                                                                                              |
| Address of Manufacturer: | NO.5 Zowee technology building ,Science & Technology industrial park of privately owned enterprises, Pingshan, Xili, Nanshan district, Shenzhen. |
| Factory:                 | Hansong (Nanjing) Technology Ltd.                                                                                                                |
| Address of Factory:      | 8th Kangping Road, Jiangning Economy and Technology Development Zone, Nanjing, 211106, China.                                                    |

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

|                                                  |                                                                                  |
|--------------------------------------------------|----------------------------------------------------------------------------------|
| Product Name:                                    | WiFi Media Streaming Module                                                      |
| Model No.:                                       | LS9AD-AC11DBT                                                                    |
| Operation Frequency:                             | 2412MHz~2462MHz (802.11b/802.11g/802.11n(H20))<br>2422MHz~2452MHz (802.11n(H40)) |
| Channel numbers:                                 | 11 for 802.11b/802.11g/802.11(H20)<br>7 for 802.11n(H40)                         |
| Channel separation:                              | 5MHz                                                                             |
| Modulation technology:<br>(IEEE 802.11b)         | Direct Sequence Spread Spectrum (DSSS)                                           |
| Modulation technology:<br>(IEEE 802.11g/802.11n) | Orthogonal Frequency Division Multiplexing(OFDM)                                 |
| Data speed (IEEE 802.11b):                       | 1Mbps, 2Mbps, 5.5Mbps, 11Mbps                                                    |
| Data speed (IEEE 802.11g):                       | 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps                      |
| Data speed (IEEE 802.11n):                       | Up to 150Mbps                                                                    |
| Antenna Type:                                    | Internal Antenna                                                                 |
| Antenna gain:                                    | 2.0dBi                                                                           |
| Power supply:                                    | DC 3.3V                                                                          |

| Operation Frequency each of channel For 802.11b/g/n(H20) |           |         |           |         |           |         |           |
|----------------------------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                                                  | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1                                                        | 2412MHz   | 4       | 2427MHz   | 7       | 2442MHz   | 10      | 2457MHz   |
| 2                                                        | 2417MHz   | 5       | 2432MHz   | 8       | 2447MHz   | 11      | 2462MHz   |
| 3                                                        | 2422MHz   | 6       | 2437MHz   | 9       | 2452MHz   |         |           |

| Operation Frequency each of channel For 802.11n(H40) |           |         |           |         |           |         |           |
|------------------------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                                              | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|                                                      |           | 4       | 2427MHz   | 7       | 2442MHz   |         |           |
|                                                      |           | 5       | 2432MHz   | 8       | 2447MHz   |         |           |
| 3                                                    | 2422MHz   | 6       | 2437MHz   | 9       | 2452MHz   |         |           |

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:

802.11b/802.11g/802.11n (H20)

| Channel             | Frequency |
|---------------------|-----------|
| The lowest channel  | 2412MHz   |
| The middle channel  | 2437MHz   |
| The Highest channel | 2462MHz   |

802.11n (H40)

| Channel             | Frequency |
|---------------------|-----------|
| The lowest channel  | 2422MHz   |
| The middle channel  | 2437MHz   |
| The Highest channel | 2452MHz   |

### 5.3 Test environment and mode

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Operating Environment:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                      |
| Temperature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 24.0 °C                                                                                                              |
| Humidity:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 54 % RH                                                                                                              |
| Atmospheric Pressure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1010 mbar                                                                                                            |
| <b>Test mode:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                      |
| Transmitting mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Keep the EUT in continuous transmitting with modulation                                                              |
| Remark:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | The EUT have two chains, but cannot transmit simultaneously, so all test items performed on each chain respectively. |
| <p>The sample was placed 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.</p> <p>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:</p> |                                                                                                                      |
| <b>Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                      |
| Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Data rate                                                                                                            |
| 802.11b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1Mbps                                                                                                                |
| 802.11g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6Mbps                                                                                                                |
| 802.11n(H20)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6.5Mbps                                                                                                              |
| 802.11n(H40)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 13.5Mbps                                                                                                             |
| <b>Final Test Mode:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                      |
| <p>According to ANSI C63.10 standards, the test results are both the “worst case” and “worst setup” 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20) and 13.5 Mbps for 802.11n(H40). Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                      |

### 5.4 Measurement Uncertainty

| Items                               | Expanded Uncertainty (Confidence of 95%) |
|-------------------------------------|------------------------------------------|
| Conducted Emission (9kHz ~ 30MHz)   | 2.14 dB (k=2)                            |
| Radiated Emission (9kHz ~ 30MHz)    | 4.24 dB (k=2)                            |
| Radiated Emission (30MHz ~ 1000MHz) | 4.35 dB (k=2)                            |
| Radiated Emission (1GHz ~ 18GHz)    | 4.44 dB (k=2)                            |
| Radiated Emission (18GHz ~ 26.5GHz) | 4.56 dB (k=2)                            |

## 5.5 Laboratory Facility

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

- **FCC - Registration No.: 817957**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 817957, February 27, 2012.

- **IC - Registration No.: 10106A-1**

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.

- **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

## 5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,  
Bao'an District, Shenzhen, Guangdong, China

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

Email: info@ccis-cb.com, Website: <http://www.ccis-cb.com>

## 5.7 Test Instruments list

| Radiated Emission: |                              |                                   |                          |               |                      |                          |
|--------------------|------------------------------|-----------------------------------|--------------------------|---------------|----------------------|--------------------------|
| Item               | Test Equipment               | Manufacturer                      | Model No.                | Inventory No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| 1                  | 3m SAC                       | SAEMC                             | 9(L)*6(W)* 6(H)          | CCIS0001      | 07-22-2017           | 07-21-2020               |
| 2                  | BiConiLog Antenna            | SCHWARZBECK                       | VULB9163                 | CCIS0005      | 03-16-2018           | 03-15-2019               |
| 3                  | Horn Antenna                 | SCHWARZBECK                       | BBHA9120D                | CCIS0006      | 03-16-2018           | 03-15-2019               |
| 4                  | Pre-amplifier (10kHz-1.3GHz) | HP                                | 8447D                    | CCIS0003      | 03-16-2018           | 03-15-2019               |
| 5                  | Pre-amplifier (1GHz-18GHz)   | Compliance Direction Systems Inc. | PAP-1G18                 | CCIS0011      | 06-22-2017           | 06-21-2020               |
| 6                  | Pre-amplifier (18-26GHz)     | Rohde & Schwarz                   | AFS33-18002 650-30-8P-44 | GTS218        | 11-21-2017           | 11-20-2018               |
|                    |                              |                                   |                          |               | 11-21-2018           | 11-20-2019               |
| 7                  | Horn Antenna                 | ETS-LINDGREN                      | 3160                     | GTS217        | 11-21-2018           | 11-20-2019               |
| 8                  | Spectrum analyzer 9k-30GHz   | Rohde & Schwarz                   | FSP30                    | CCIS0023      | 03-07-2018           | 03-06-2019               |
| 9                  | EMI Test Receiver            | Rohde & Schwarz                   | ESRP7                    | CCIS0167      | 03-07-2018           | 03-06-2019               |
| 10                 | Loop antenna                 | Laplace instrument                | RF300                    | EMC0701       | 03-07-2018           | 03-06-2019               |
| 11                 | EMI Test Software            | AUDIX                             | E3                       | N/A           | N/A                  | N/A                      |
| 12                 | Coaxial Cable                | N/A                               | N/A                      | CCIS0018      | 03-07-2018           | 03-06-2019               |
| 13                 | Coaxial Cable                | N/A                               | N/A                      | CCIS0020      | 03-07-2018           | 03-06-2019               |

| Conducted Emission: |                   |                    |                       |               |                      |                          |
|---------------------|-------------------|--------------------|-----------------------|---------------|----------------------|--------------------------|
| Item                | Test Equipment    | Manufacturer       | Model No.             | Inventory No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| 1                   | Shielding Room    | ZhongShuo Electron | 11.0(L)x4.0(W)x3.0(H) | CCIS0061      | 03-07-2018           | 03-06-2019               |
| 2                   | EMI Test Receiver | Rohde & Schwarz    | ESCI                  | CCIS0002      | 03-07-2018           | 03-06-2019               |
| 3                   | LISN              | CHASE              | MN2050D               | CCIS0074      | 03-19-2018           | 03-18-2019               |
| 4                   | Coaxial Cable     | CCIS               | N/A                   | CCIS0086      | 07-21-2018           | 07-20-2019               |
| 5                   | EMI Test Software | AUDIX              | E3                    | N/A           | N/A                  | N/A                      |

## 6 Test results and Measurement Data

### 6.1 Antenna requirement

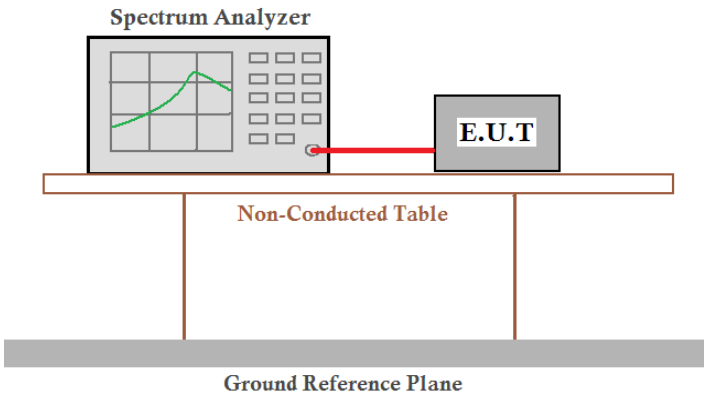
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Standard requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FCC Part 15 C Section 15.203 /247(c) |
| <i>15.203 requirement:</i><br><i>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.</i><br><i>15.247(c) (1)(i) requirement:</i><br><i>(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</i> |                                      |
| <b>E.U.T Antenna:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      |
| <i>The WiFi antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is 2.0 dBi.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                      |



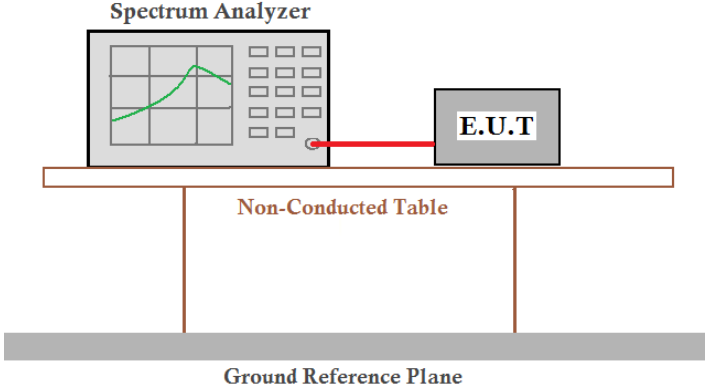
## 6.2 Conducted Emission

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |           |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|
| Test Requirement:                                | FCC Part 15 C Section 15.207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |           |
| Test Method:                                     | ANSI C63.10: 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |           |
| Test Frequency Range:                            | 150 kHz to 30 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |           |
| Class / Severity:                                | Class B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |           |
| Receiver setup:                                  | RBW=9 kHz, VBW=30 kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |
| Limit:                                           | Frequency range (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Limit (dBuV) |           |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Quasi-peak   | Average   |
|                                                  | 0.15-0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 66 to 56*    | 56 to 46* |
|                                                  | 0.5-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 56           | 46        |
|                                                  | 5-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 60           | 50        |
| * 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.), which 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 C63.4: 2014 on conducted measurement.</li> </ol> |              |           |
| Test setup:                                      |  <p><i>Remark</i><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 5.7 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |           |
| Test mode:                                       | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |           |
| Test results:                                    | Please refer to the FCC ID: 2ADBM-LS9ADAC11DBT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |           |

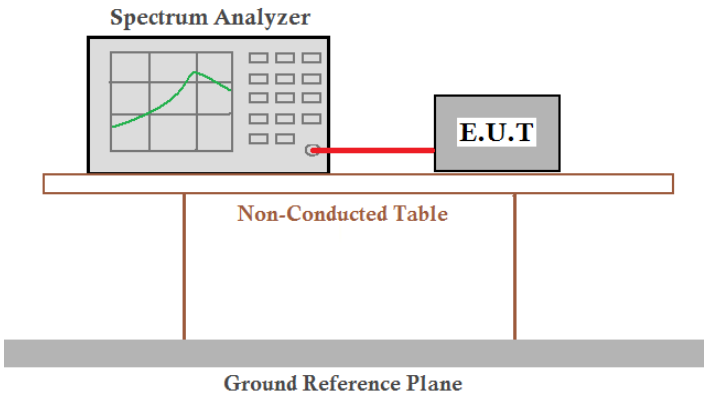
## 6.3 Conducted Output Power

|                   |                                                                                                                                                                                                                                                                                                                                                            |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part 15 C Section 15.247 (b)(3)                                                                                                                                                                                                                                                                                                                        |
| Test Method:      | ANSI C63.10:2013 and KDB558074v01r04 section 9.2.2.2                                                                                                                                                                                                                                                                                                       |
| Limit:            | 30dBm                                                                                                                                                                                                                                                                                                                                                      |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 5.7 for details                                                                                                                                                                                                                                                                                                                           |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                           |
| Test results:     | Please refer to the FCC ID: 2ADBM-LS9ADAC11DBT                                                                                                                                                                                                                                                                                                             |

## 6.4 Occupy Bandwidth

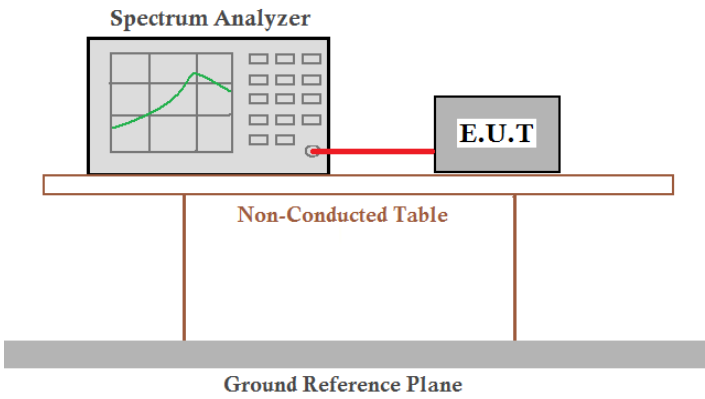
|                   |                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part 15 C Section 15.247 (a)(2)                                                                                                                                                                                                                                                                                                                             |
| Test Method:      | ANSI C63.10:2013 and KDB558074v01r04 section 8.1                                                                                                                                                                                                                                                                                                                |
| Limit:            | >500kHz                                                                                                                                                                                                                                                                                                                                                         |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both devices are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 5.7 for details                                                                                                                                                                                                                                                                                                                                |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                |
| Test results:     | Please refer to the FCC ID: 2ADBM-LS9ADAC11DBT                                                                                                                                                                                                                                                                                                                  |

## 6.5 Power Spectral Density

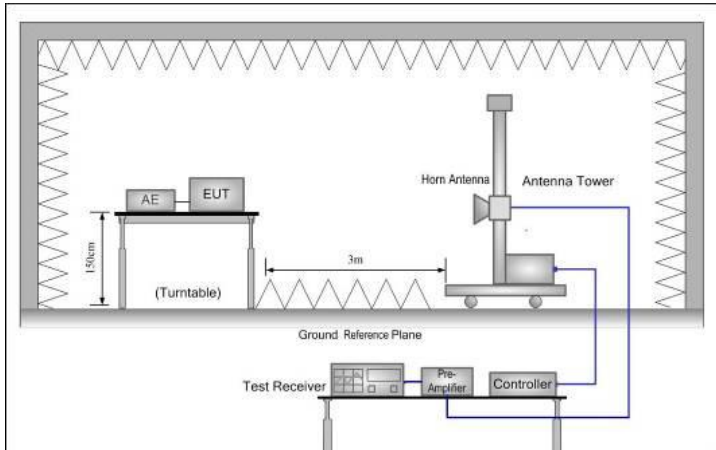
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part 15 C Section 15.247 (e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test Method:      | ANSI C63.10:2013 and KDB558074v01r04 section 10.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Limit:            | 8dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer, shown with a grid and a green curve 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 'Non-Conducted Table'. This table is supported by two vertical legs that rest on a 'Ground Reference Plane', which is represented by a thick grey horizontal bar at the bottom of the setup.</p> |
| Test Instruments: | Refer to section 5.7 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test results:     | Please refer to the FCC ID: 2ADBM-LS9ADAC11DBT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## 6.6 Band Edge

### 6.6.1 Conducted Emission Method

|                   |                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part 15 C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                            |
| Test Method:      | ANSI C63.10:2013 and KDB558074v01r04 section 13                                                                                                                                                                                                                                                                                                                                             |
| Limit:            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.     |
| Test setup:       |  <p>The diagram illustrates the test setup for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 5.7 for details                                                                                                                                                                                                                                                                                                                                                            |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                            |
| Test results:     | Please refer to the FCC ID: 2ADBM-LS9ADAC11DBT                                                                                                                                                                                                                                                                                                                                              |

## 6.6.2 Radiated Emission Method

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                    |      |               |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------|------|---------------|
| Test Requirement:     | FCC Part 15 C Section 15.209 and 15.205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                    |      |               |
| Test Method:          | ANSI C63.10: 2013 and KDB558074v01r04 section 12.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                    |      |               |
| Test Frequency Range: | 2.3GHz to 2.5GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |                    |      |               |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          | 54.00              |      | Average Value |
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | 74.00              |      | Peak 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:           | <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                    |      |               |
| Test Instruments:     | Refer to section 5.7 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |                    |      |               |
| Test mode:            | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |                    |      |               |
| Test results:         | Passed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |                    |      |               |

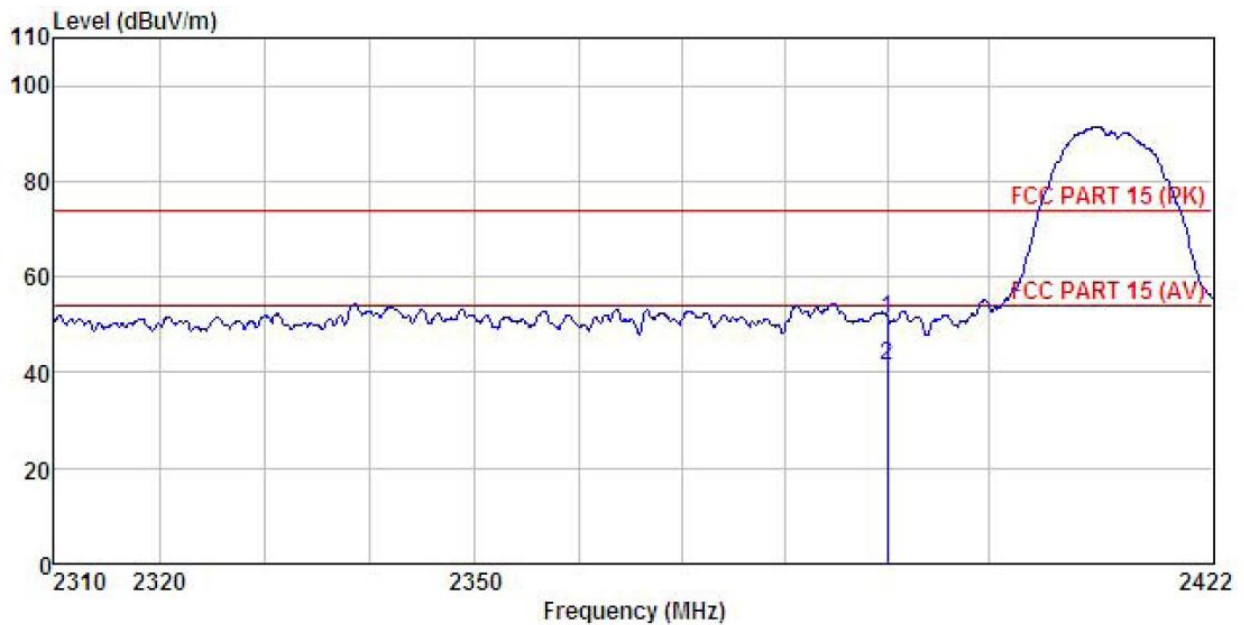
## Rod Antenna

TX1

802.11b

Test channel: Lowest

Horizontal:



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11b-L Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 1 ANT

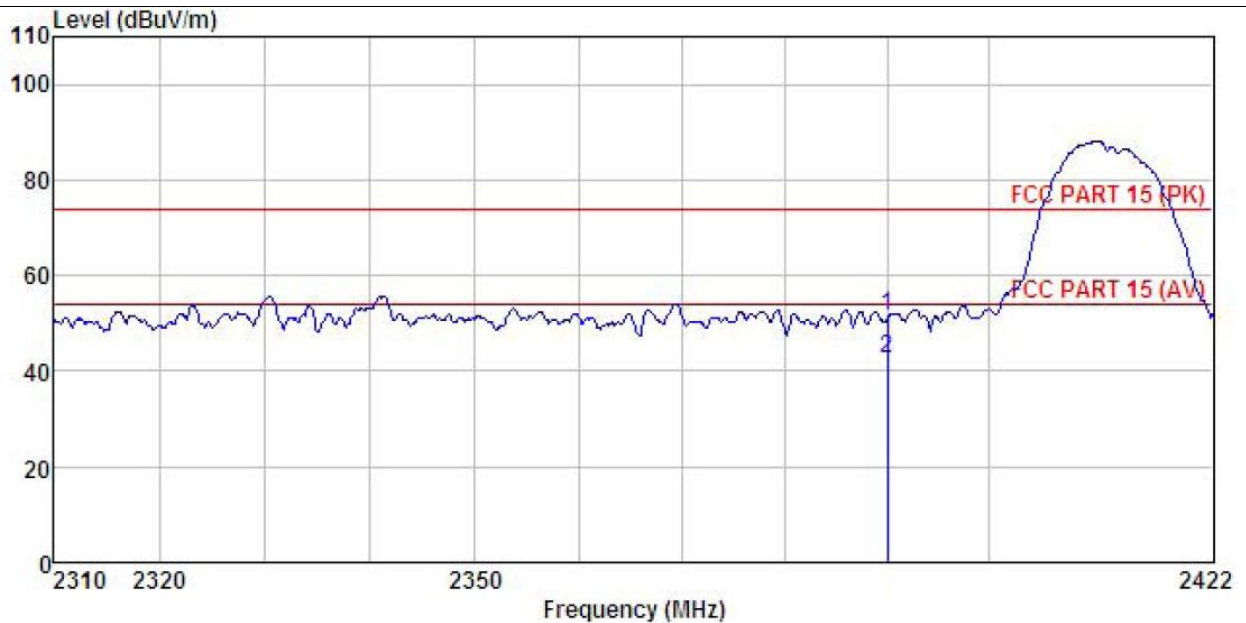
|   | Freq     | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |         |
|---|----------|-------------|--------|--------|--------|--------|--------|--------|---------|
|   |          | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Remark  |
|   | MHz      | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |         |
| 1 | 2390.000 | 17.60       | 27.37  | 4.69   | 0.00   | 51.34  | 74.00  | -22.66 | Peak    |
| 2 | 2390.000 | 7.48        | 27.37  | 4.69   | 0.00   | 41.22  | 54.00  | -12.78 | Average |

### 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.

Vertical:



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11b-L Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 1 ANT

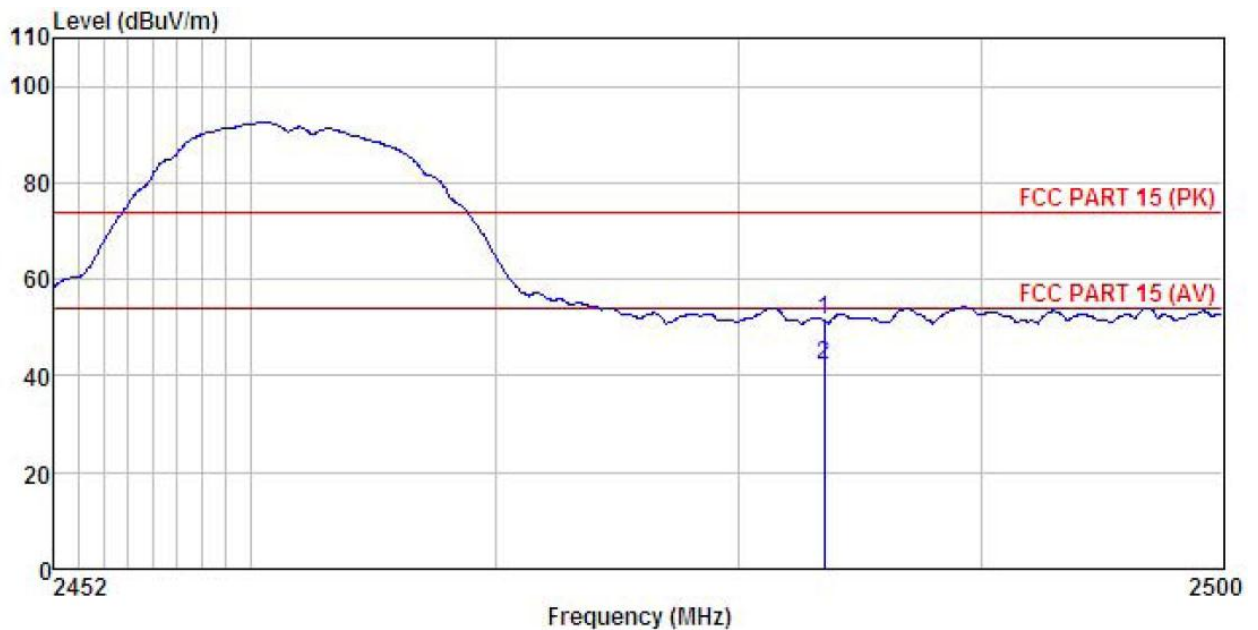
|   |          | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |                |
|---|----------|-------------|--------|--------|--------|--------|--------|----------------|
|   | Freq     | Level       | Factor | Loss   | Factor | Level  | Line   | Limit          |
|   | MHz      | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB             |
| 1 | 2390.000 | 17.68       | 27.37  | 4.69   | 0.00   | 51.42  | 74.00  | -22.58 Peak    |
| 2 | 2390.000 | 8.75        | 27.37  | 4.69   | 0.00   | 42.49  | 54.00  | -11.51 Average |

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.

## Test channel: Highest

Horizontal:



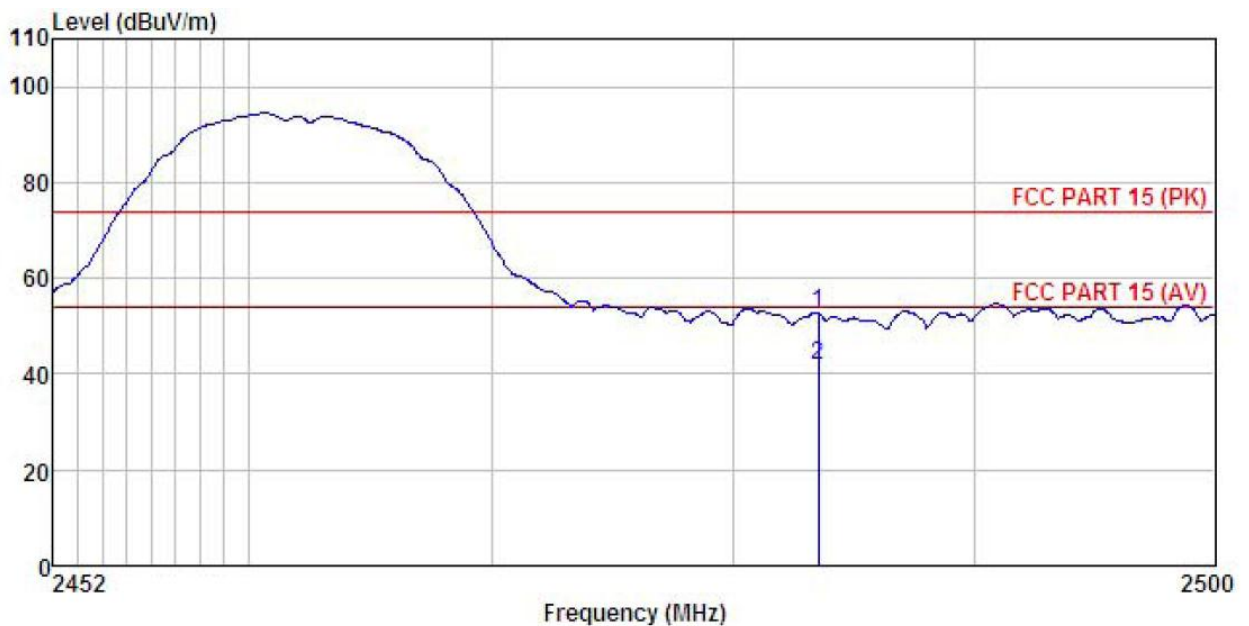
Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11b-H Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 1 ANT

|   | Freq     | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level  | Limit  | Over Limit | Remark  |
|---|----------|------------|----------------|------------|---------------|--------|--------|------------|---------|
|   | MHz      | dBuV       | dB/m           | dB         | dB            | dBuV/m | dBuV/m | dB         |         |
| 1 | 2483.500 | 17.35      | 27.57          | 4.81       | 0.00          | 51.43  | 74.00  | -22.57     | Peak    |
| 2 | 2483.500 | 7.98       | 27.57          | 4.81       | 0.00          | 42.06  | 54.00  | -11.94     | Average |

### 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.

Vertical:



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11b-H Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 1 ANT

|            |       | ReadAntenna | Cable | Preamp |        | Limit  | Over   |         |
|------------|-------|-------------|-------|--------|--------|--------|--------|---------|
| Freq       | Level | Factor      | Loss  | Factor | Level  | Line   | Limit  | Remark  |
| -----      | ----- | -----       | ----- | -----  | -----  | -----  | -----  | -----   |
| MHz        | dBuV  | dB/m        | dB    | dB     | dBuV/m | dBuV/m | dB     |         |
| 1 2483.500 | 18.53 | 27.57       | 4.81  | 0.00   | 52.61  | 74.00  | -21.39 | Peak    |
| 2 2483.500 | 7.84  | 27.57       | 4.81  | 0.00   | 41.92  | 54.00  | -12.08 | Average |

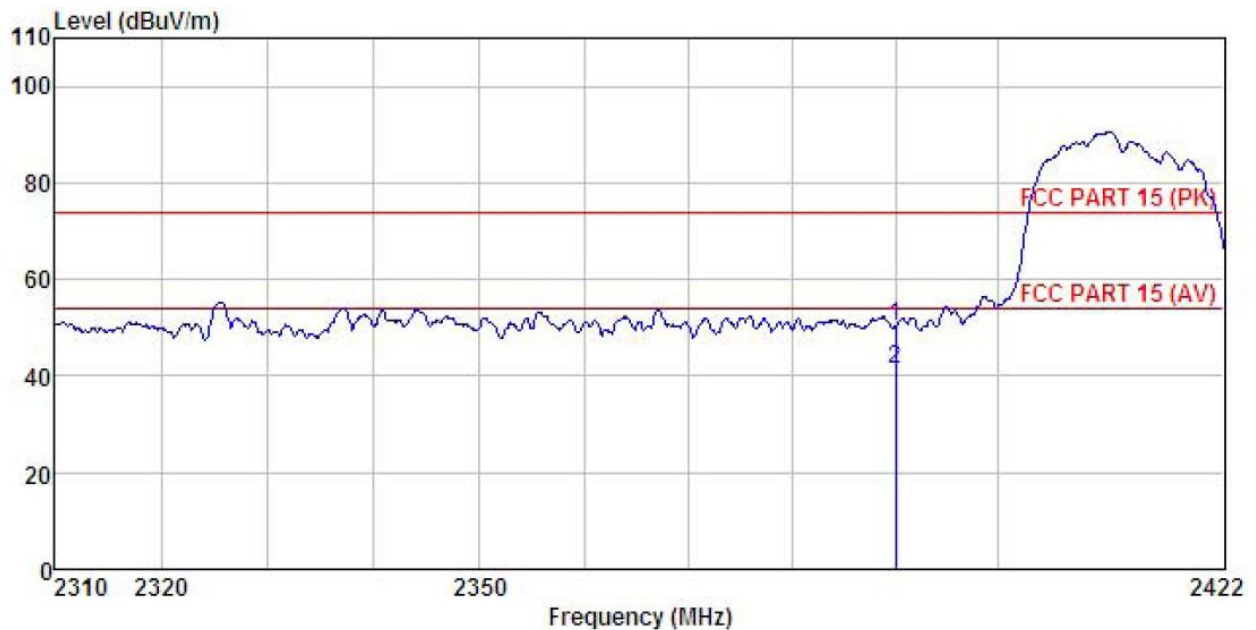
Remark:

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.

## 802.11g

Test channel: Lowest

Horizontal:



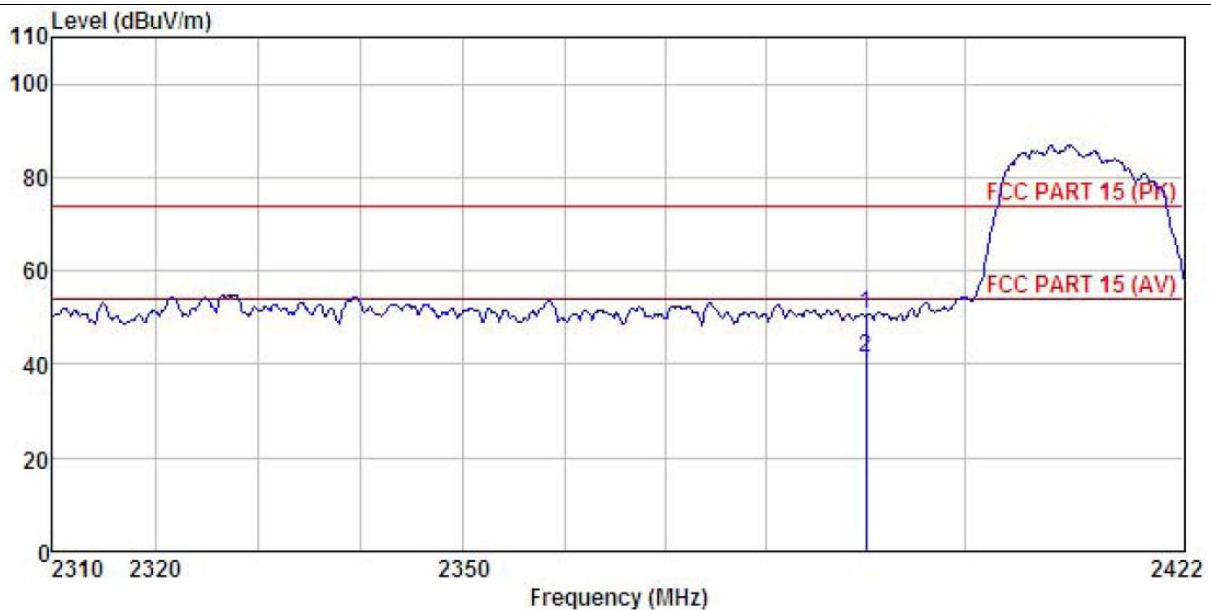
Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11g-L Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 1 ANT

|   | Freq     | Read Level | Antenna Factor | Cable Loss | Preamplifier Factor | Level  | Limit Line | Over Limit | Remark  |
|---|----------|------------|----------------|------------|---------------------|--------|------------|------------|---------|
|   | MHz      | dBuV       | dB/m           | dB         | dB                  | dBuV/m | dBuV/m     | dB         |         |
| 1 | 2390.000 | 16.53      | 27.37          | 4.69       | 0.00                | 50.27  | 74.00      | -23.73     | Peak    |
| 2 | 2390.000 | 7.83       | 27.37          | 4.69       | 0.00                | 41.57  | 54.00      | -12.43     | Average |

### 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.

Vertical:



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11g-L Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 1 ANT

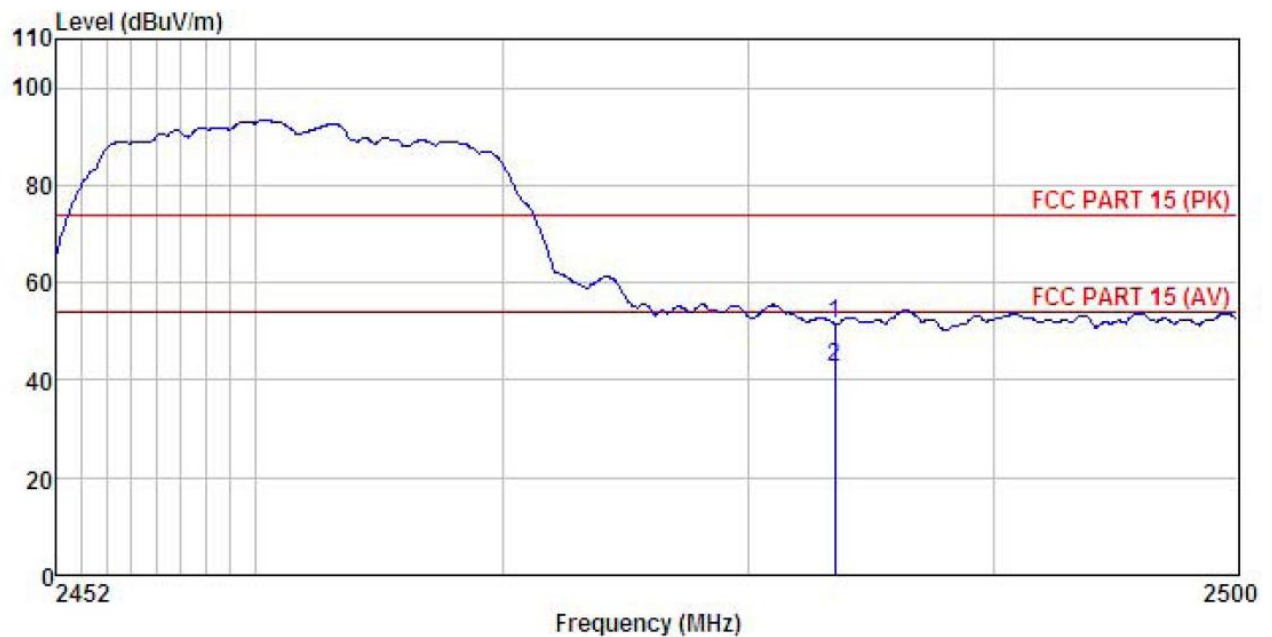
|   | Freq     | Read<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Level  | Limit<br>Line | Over<br>Limit | Remark  |
|---|----------|---------------|-------------------|---------------|------------------|--------|---------------|---------------|---------|
|   | MHz      | dBuV          | dB/m              | dB            | dB               | dBuV/m | dBuV/m        | dB            |         |
| 1 | 2390.000 | 17.06         | 27.37             | 4.69          | 0.00             | 50.80  | 74.00         | -23.20        | Peak    |
| 2 | 2390.000 | 7.68          | 27.37             | 4.69          | 0.00             | 41.42  | 54.00         | -12.58        | Average |

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.

## Test channel: Highest

Horizontal:



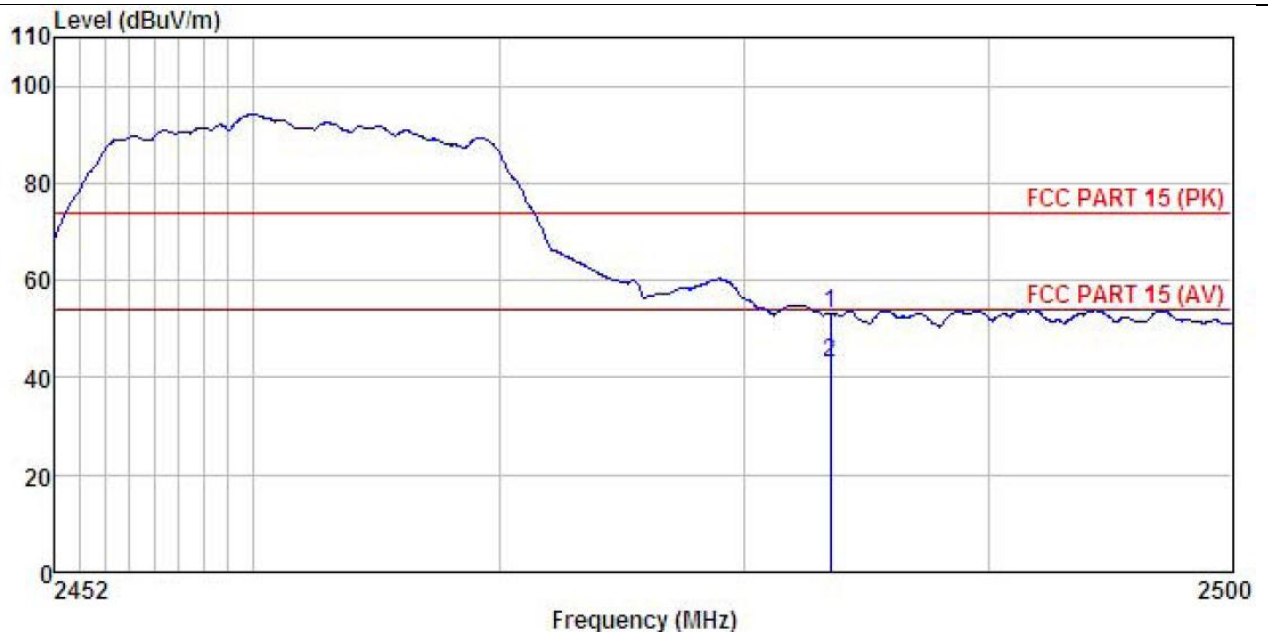
Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11g-H Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 1 ANT

|   | Freq     | Read   | Antenna | Cable  | Preamp | Limit  | Over   |                |
|---|----------|--------|---------|--------|--------|--------|--------|----------------|
|   | Level    | Factor | Loss    | Factor | Level  | Line   | Limit  | Remark         |
|   | MHz      | dBuV   | dB/m    | dB     | dB     | dBuV/m | dBuV/m | dB             |
| 1 | 2483.500 | 17.60  | 27.57   | 4.81   | 0.00   | 51.68  | 74.00  | -22.32 Peak    |
| 2 | 2483.500 | 8.59   | 27.57   | 4.81   | 0.00   | 42.67  | 54.00  | -11.33 Average |

### 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.

Vertical:



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11g-H Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 1 ANT

|   | Freq     | Read Level | Antenna Factor | Cable Loss | Preamplifier Factor | Level  | Limit  | Over Limit | Remark  |
|---|----------|------------|----------------|------------|---------------------|--------|--------|------------|---------|
|   | MHz      | dBuV       | dB/m           | dB         | dB                  | dBuV/m | dBuV/m | dB         |         |
| 1 | 2483.500 | 19.23      | 27.57          | 4.81       | 0.00                | 53.31  | 74.00  | -20.69     | Peak    |
| 2 | 2483.500 | 8.79       | 27.57          | 4.81       | 0.00                | 42.87  | 54.00  | -11.13     | Average |

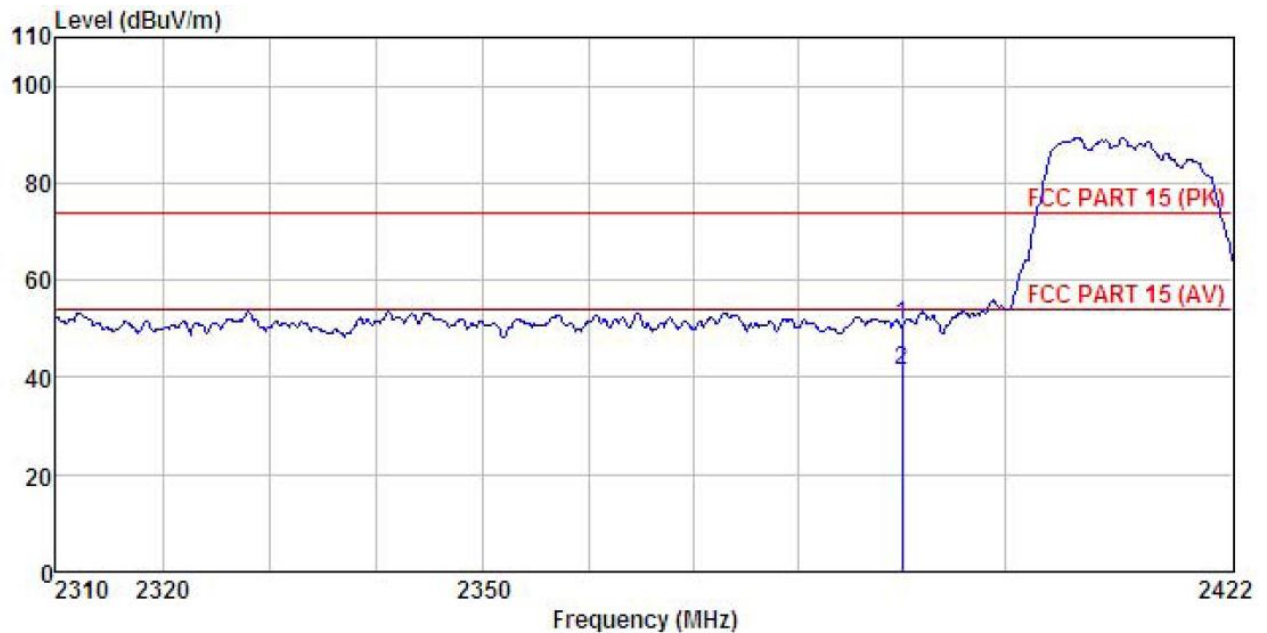
Remark:

- 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.

## 802.11n (H20)

Test channel: Lowest

Horizontal:



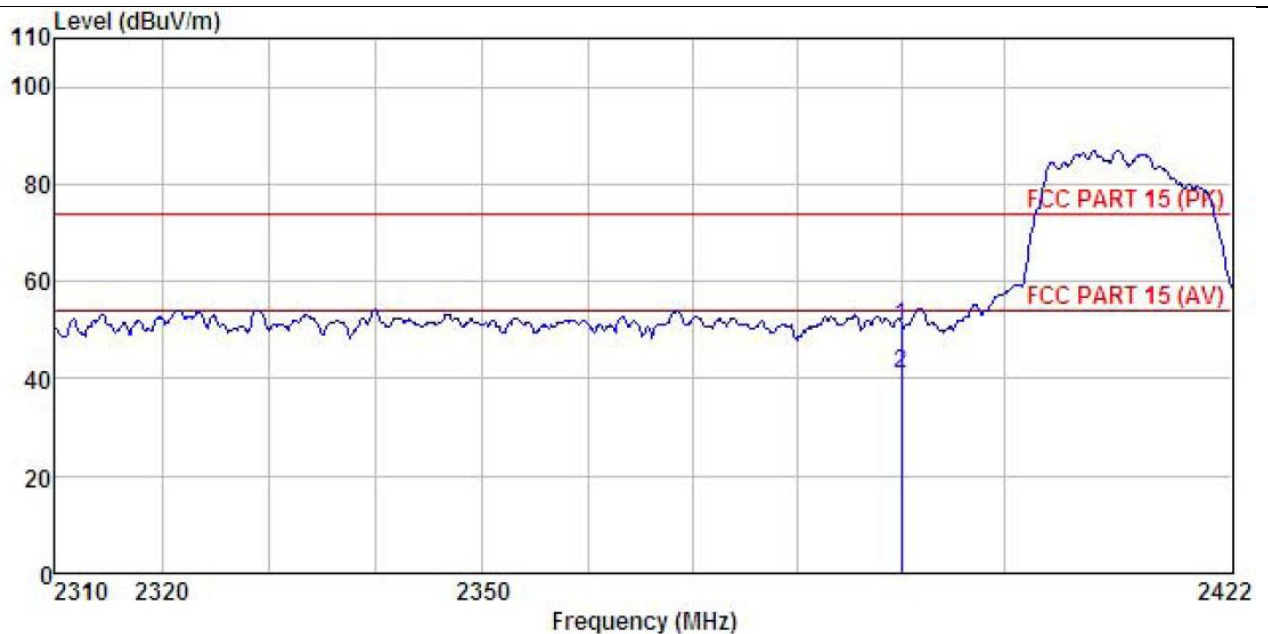
Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11n20-L Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 1 ANT

|   | Freq     | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level  | Limit  | Over Limit | Remark  |
|---|----------|------------|----------------|------------|---------------|--------|--------|------------|---------|
|   | MHz      | dBuV       | dB/m           | dB         | dB            | dBuV/m | dBuV/m | dB         |         |
| 1 | 2390.000 | 17.01      | 27.37          | 4.69       | 0.00          | 50.75  | 74.00  | -23.25     | Peak    |
| 2 | 2390.000 | 7.62       | 27.37          | 4.69       | 0.00          | 41.36  | 54.00  | -12.64     | Average |

### 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.

Vertical:



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11n20-L Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 1 ANT

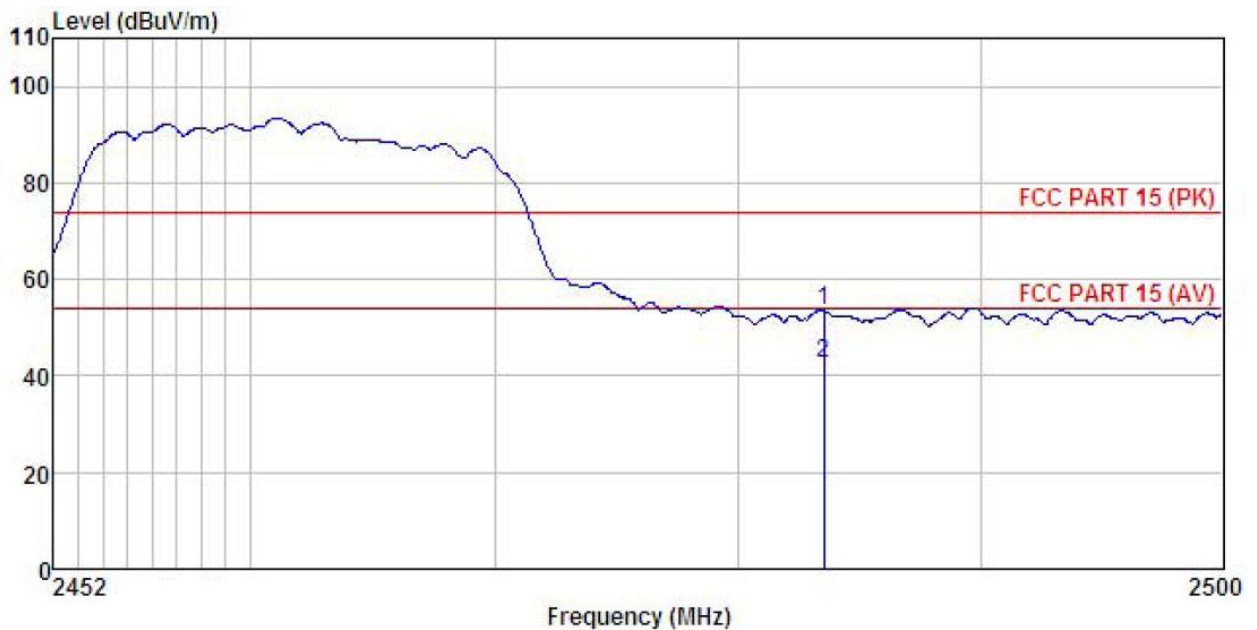
|            | Read  | Antenna | Cable | Preamp |        | Limit  | Over   |         |
|------------|-------|---------|-------|--------|--------|--------|--------|---------|
| Freq       | Level | Factor  | Loss  | Factor | Level  | Line   | Limit  | Remark  |
| -----      | ----- | -----   | ----- | -----  | -----  | -----  | -----  | -----   |
| MHz        | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |         |
| 1 2390.000 | 17.11 | 27.37   | 4.69  | 0.00   | 50.85  | 74.00  | -23.15 | Peak    |
| 2 2390.000 | 7.43  | 27.37   | 4.69  | 0.00   | 41.17  | 54.00  | -12.83 | Average |

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.

## Test channel: Highest

Horizontal:



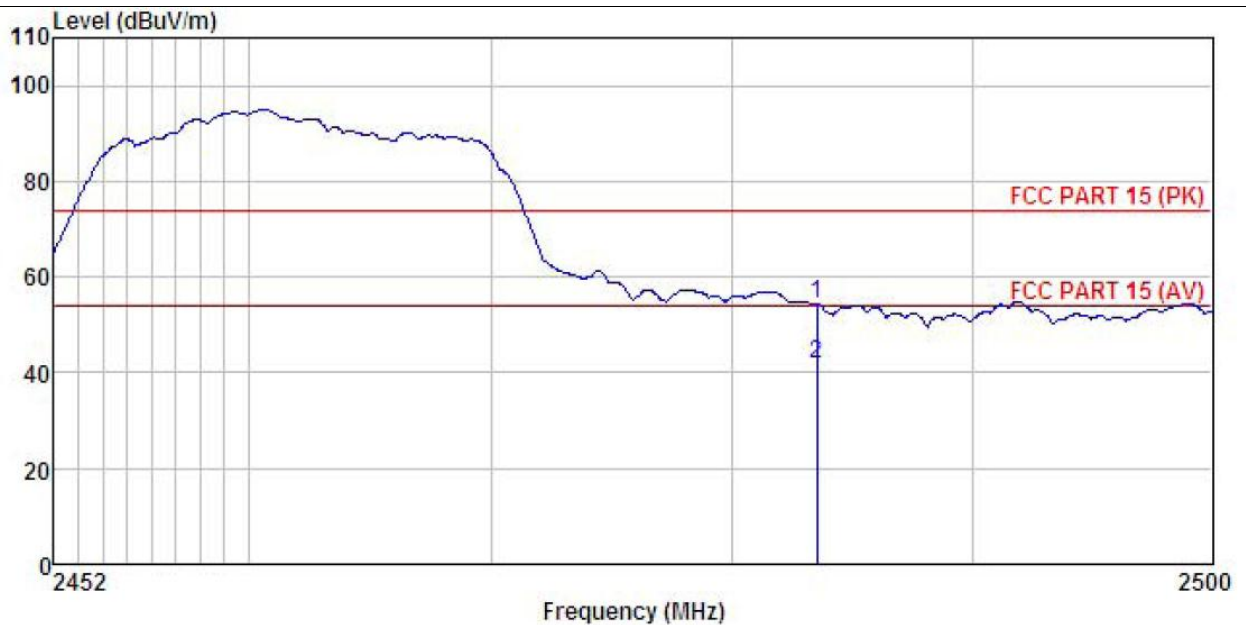
Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11n20-H Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 1 ANT

|            | Read      | Antenna   | Cable   | Preamp  |        | Limit  | Over    |         |
|------------|-----------|-----------|---------|---------|--------|--------|---------|---------|
| Freq       | Level     | Factor    | Loss    | Factor  | Level  | Line   | Limit   | Remark  |
| -----MHz   | -----dBuV | -----dB/m | -----dB | -----dB | dBuV/m | dBuV/m | -----dB | -----   |
| 1 2483.500 | 19.37     | 27.57     | 4.81    | 0.00    | 53.45  | 74.00  | -20.55  | Peak    |
| 2 2483.500 | 8.49      | 27.57     | 4.81    | 0.00    | 42.57  | 54.00  | -11.43  | Average |

### 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.

Vertical:



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11n20-H Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 1 ANT

|            | Read  | Antenna | Cable | Preamp |        | Limit  | Over   |         |
|------------|-------|---------|-------|--------|--------|--------|--------|---------|
| Freq       | Level | Factor  | Loss  | Factor | Level  | Line   | Limit  | Remark  |
| -----      | ----- | -----   | ----- | -----  | -----  | -----  | -----  | -----   |
| MHz        | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |         |
| 1 2483.500 | 20.36 | 27.57   | 4.81  | 0.00   | 54.44  | 74.00  | -19.56 | Peak    |
| 2 2483.500 | 7.89  | 27.57   | 4.81  | 0.00   | 41.97  | 54.00  | -12.03 | Average |

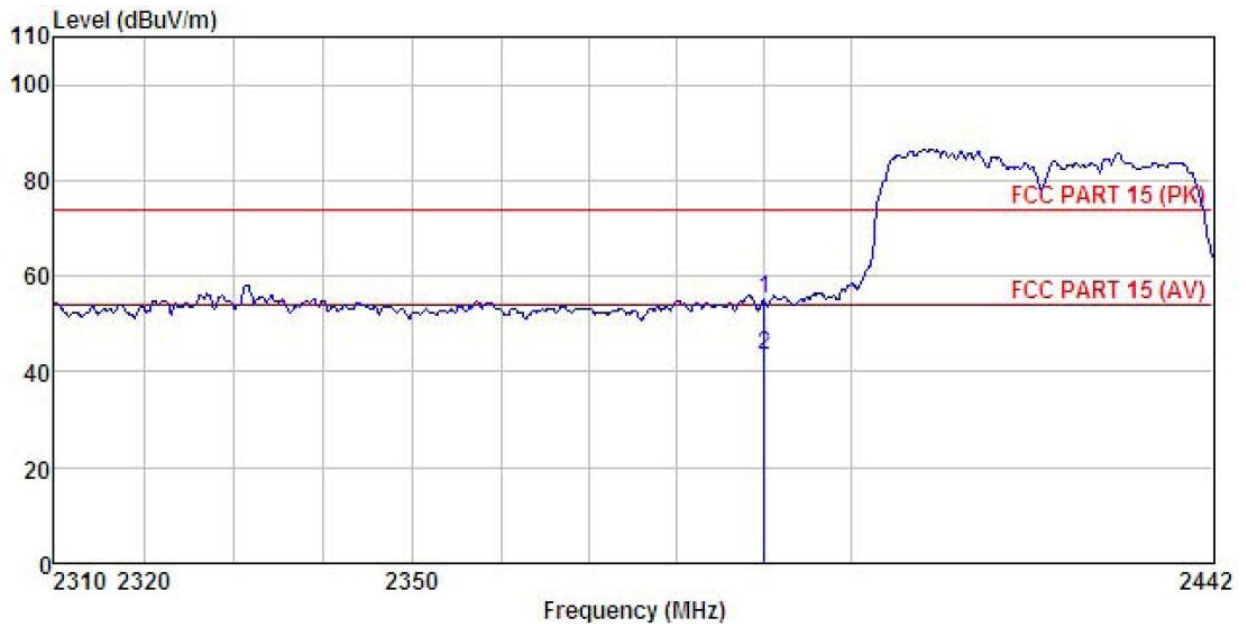
Remark:

- 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.

## 802.11n (H40)

Test channel: Lowest

Horizontal:



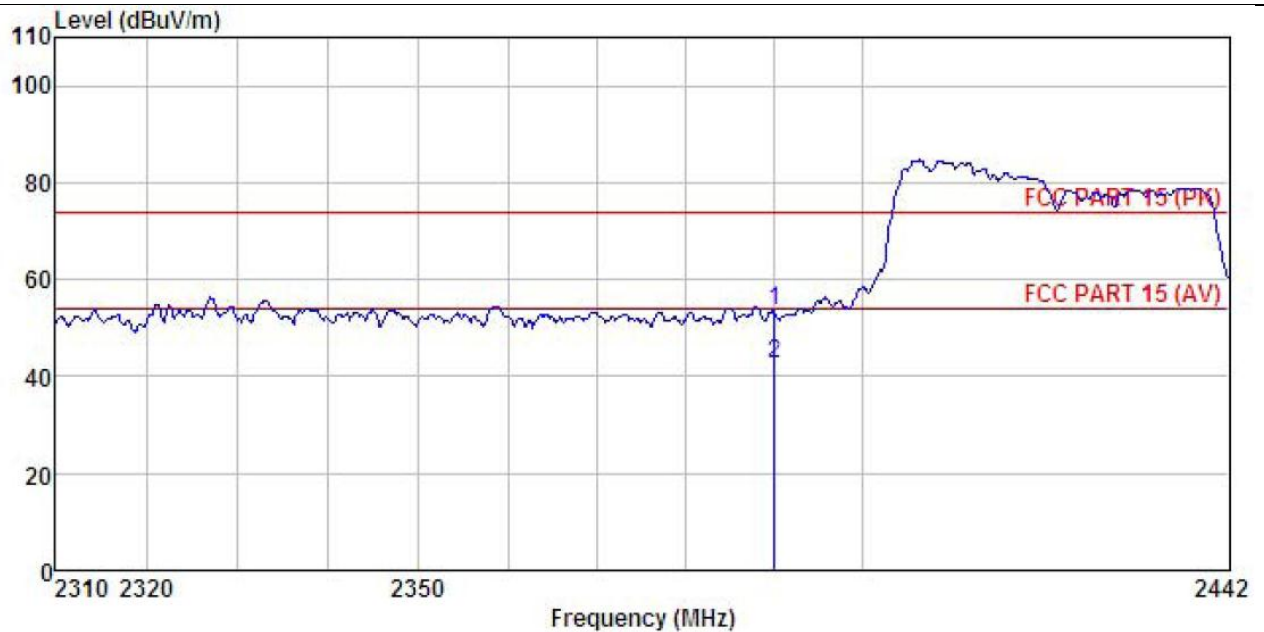
Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11n40-L Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 1 ANT

|   | Freq     | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level  | Limit  | Over Limit | Remark  |
|---|----------|------------|----------------|------------|---------------|--------|--------|------------|---------|
|   | MHz      | dBuV       | dB/m           | dB         | dB            | dBuV/m | dBuV/m | dB         |         |
| 1 | 2390.000 | 21.27      | 27.37          | 4.69       | 0.00          | 55.01  | 74.00  | -18.99     | Peak    |
| 2 | 2390.000 | 9.85       | 27.37          | 4.69       | 0.00          | 43.59  | 54.00  | -10.41     | Average |

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.

Vertical:



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11n40-L Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 1 ANT

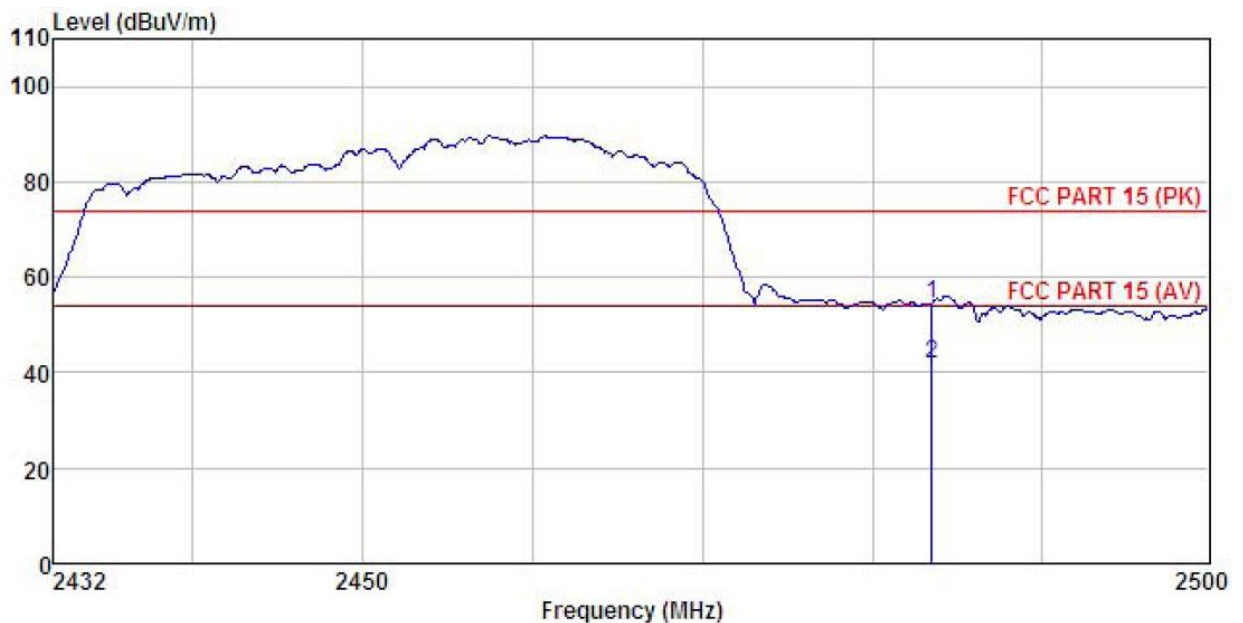
|   | Freq     | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level  | Limit  | Over Limit | Remark  |
|---|----------|------------|----------------|------------|---------------|--------|--------|------------|---------|
|   | MHz      | dBuV       | dB/m           | dB         | dB            | dBuV/m | dBuV/m | dB         |         |
| 1 | 2390.000 | 19.70      | 27.37          | 4.69       | 0.00          | 53.44  | 74.00  | -20.56     | Peak    |
| 2 | 2390.000 | 8.75       | 27.37          | 4.69       | 0.00          | 42.49  | 54.00  | -11.51     | Average |

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.

## Test channel: Highest

Horizontal:



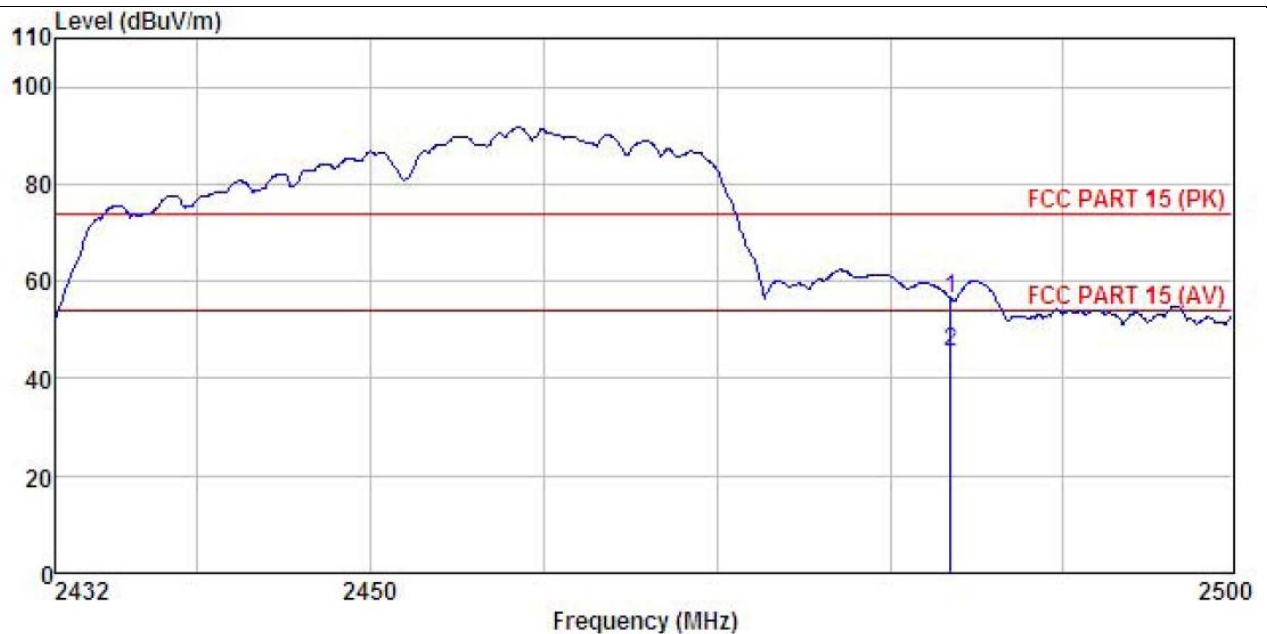
Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11n40-H Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 1 ANT

|            | Read  | Antenna | Cable | Preamp |        | Limit  | Over   |         |
|------------|-------|---------|-------|--------|--------|--------|--------|---------|
| Freq       | Level | Factor  | Loss  | Factor | Level  | Line   | Limit  | Remark  |
| -----      | ----- | -----   | ----- | -----  | -----  | -----  | -----  | -----   |
| MHz        | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |         |
| 1 2483.500 | 20.37 | 27.57   | 4.81  | 0.00   | 54.45  | 74.00  | -19.55 | Peak    |
| 2 2483.500 | 7.89  | 27.57   | 4.81  | 0.00   | 41.97  | 54.00  | -12.03 | Average |

### 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.

Vertical:



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11n40-H Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 1 ANT

|   | Freq     | Read  | Antenna | Cable | Preamp |        | Limit  | Over   |         |
|---|----------|-------|---------|-------|--------|--------|--------|--------|---------|
|   |          | Level | Factor  | Loss  | Factor | Level  | Line   | Limit  | Remark  |
|   | MHz      | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |         |
| 1 | 2483.500 | 22.49 | 27.57   | 4.81  | 0.00   | 56.57  | 74.00  | -17.43 | Peak    |
| 2 | 2483.500 | 11.49 | 27.57   | 4.81  | 0.00   | 45.57  | 54.00  | -8.43  | Average |

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.

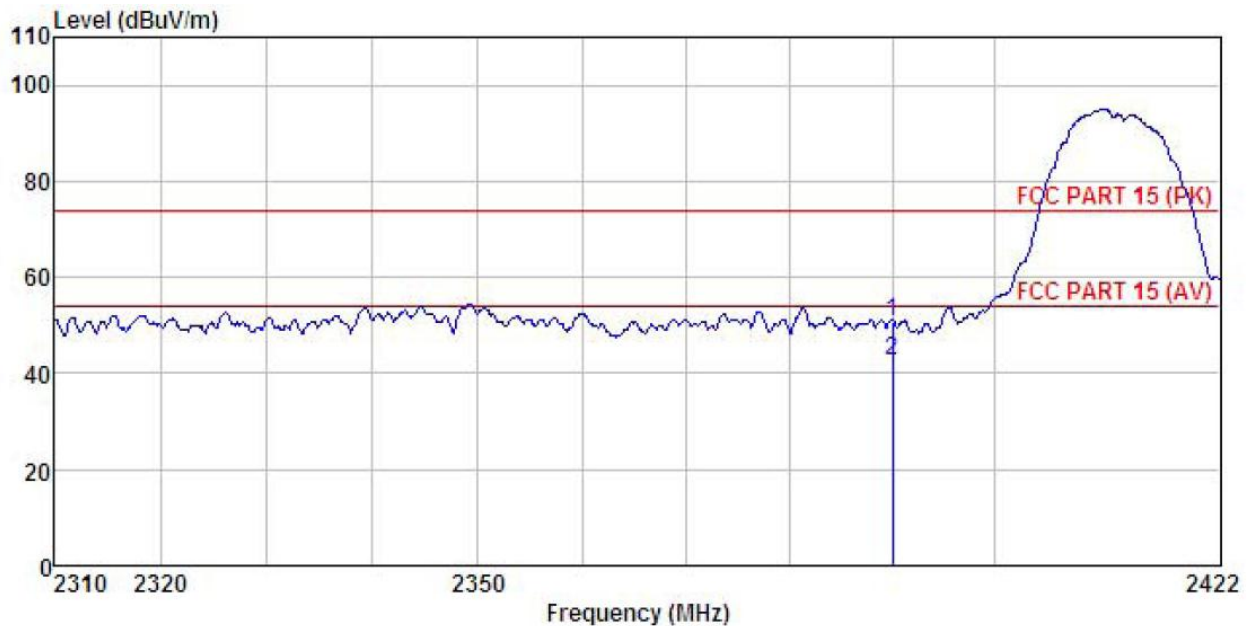
Rod Antenna:

TX2

802.11b

Test channel: Lowest

Horizontal:



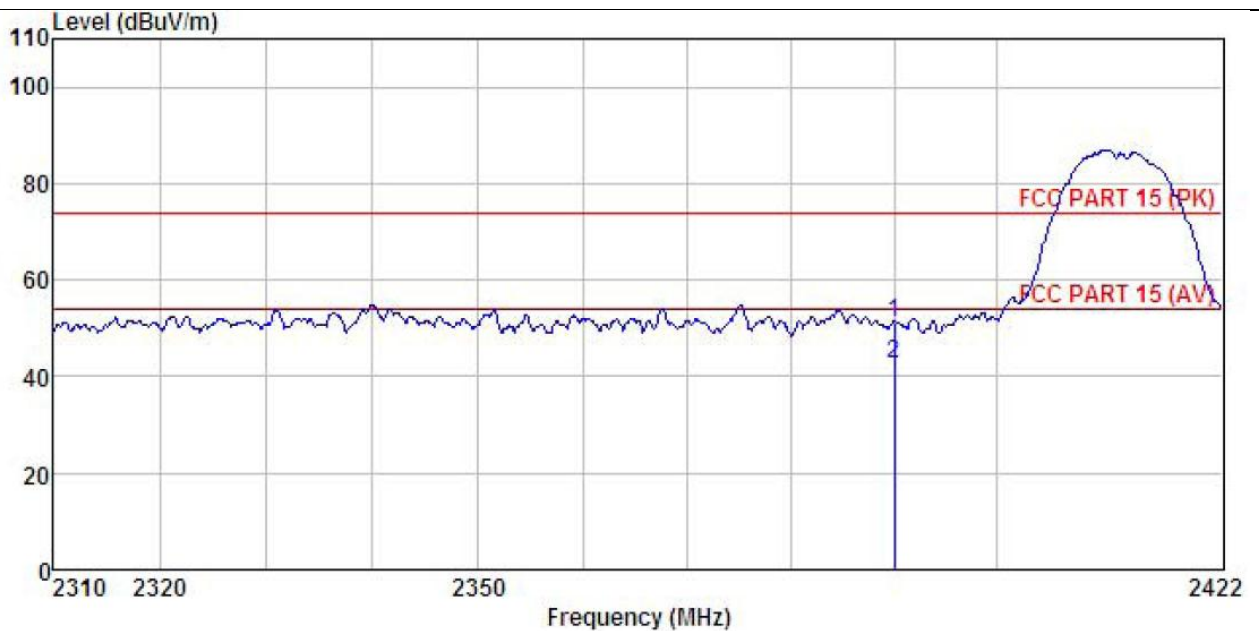
Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11b-L Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 2 ANT

|   | Freq     | Read   | Antenna | Cable  | Preamp | Limit  | Over   |                |
|---|----------|--------|---------|--------|--------|--------|--------|----------------|
|   | Level    | Factor | Loss    | Factor | Level  | Line   | Limit  | Remark         |
|   | MHz      | dBuV   | dB/m    | dB     | dB     | dBuV/m | dBuV/m | dB             |
| 1 | 2390.000 | 17.12  | 27.37   | 4.69   | 0.00   | 50.86  | 74.00  | -23.14 Peak    |
| 2 | 2390.000 | 8.78   | 27.37   | 4.69   | 0.00   | 42.52  | 54.00  | -11.48 Average |

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.

Vertical:



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11b-L Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 2 ANT

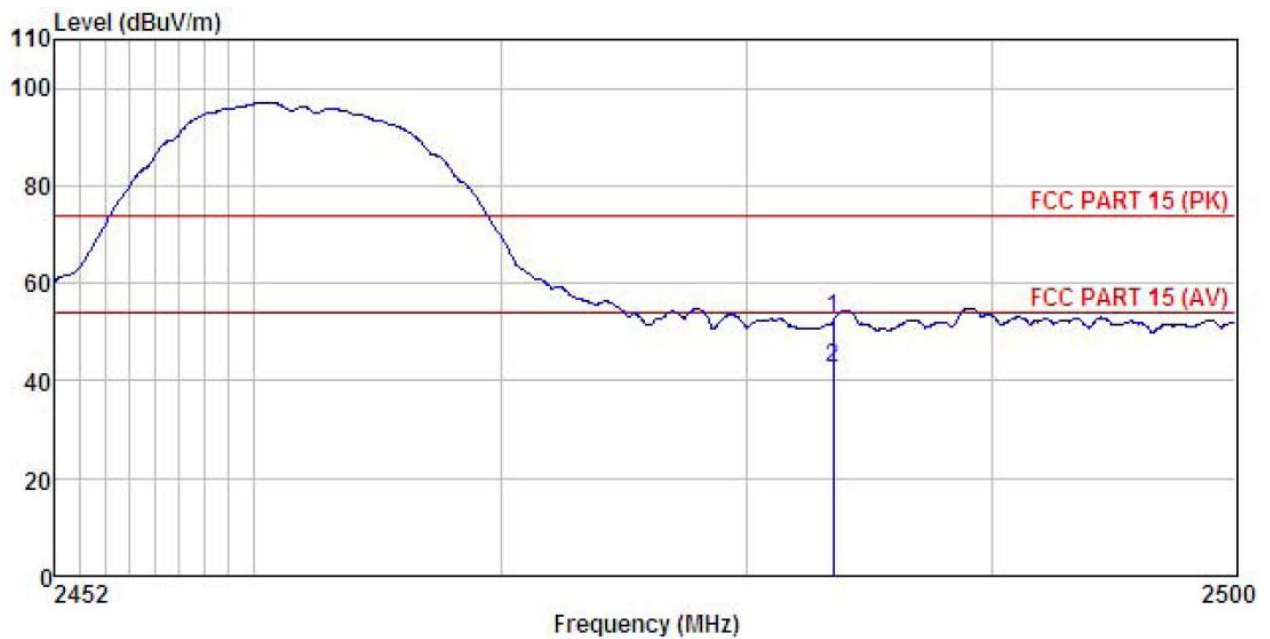
|            | Read      | Antenna   | Cable   | Preamp  |             | Limit       | Over    |         |
|------------|-----------|-----------|---------|---------|-------------|-------------|---------|---------|
| Freq       | Level     | Factor    | Loss    | Factor  | Level       | Line        | Limit   | Remark  |
| -----MHz   | -----dBuV | -----dB/m | -----dB | -----dB | -----dBuV/m | -----dBuV/m | -----dB | -----   |
| 1 2390.000 | 17.54     | 27.37     | 4.69    | 0.00    | 51.28       | 74.00       | -22.72  | Peak    |
| 2 2390.000 | 8.78      | 27.37     | 4.69    | 0.00    | 42.52       | 54.00       | -11.48  | Average |

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.

**Test channel: Highest**

Horizontal:



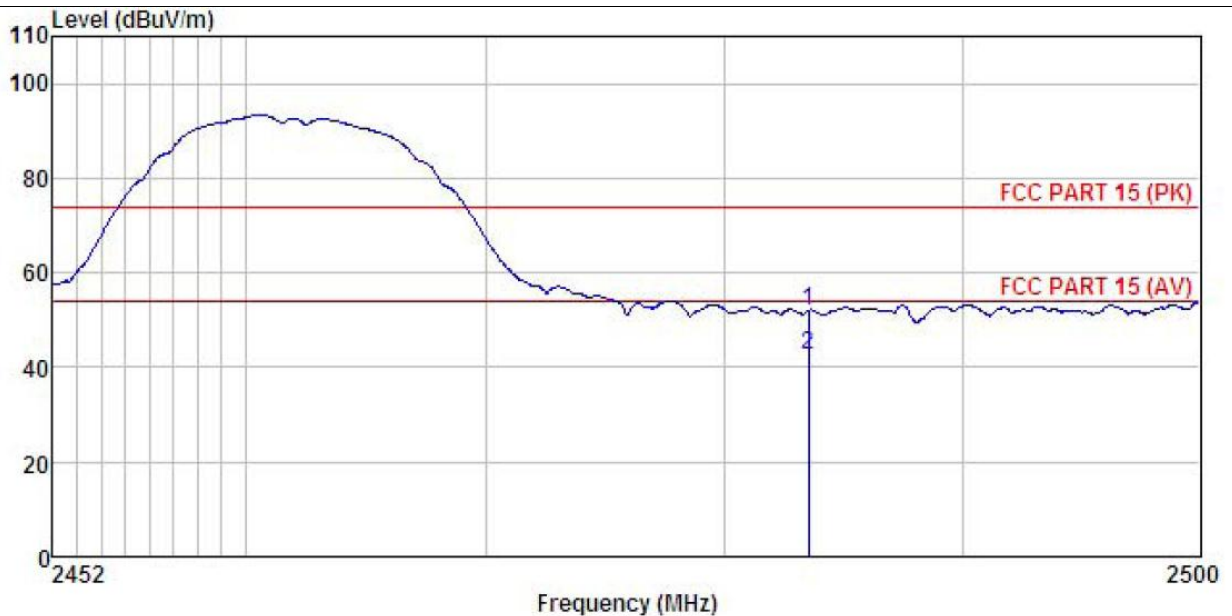
Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11b-H Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 2 ANT

|   | Freq     | Read Level | Antenna Factor | Cable Loss | Preamplifier Factor | Level  | Limit  | Over Limit | Remark  |
|---|----------|------------|----------------|------------|---------------------|--------|--------|------------|---------|
|   | MHz      | dBuV       | dB/m           | dB         | dB                  | dBuV/m | dBuV/m | dB         |         |
| 1 | 2483.500 | 18.69      | 27.57          | 4.81       | 0.00                | 52.77  | 74.00  | -21.23     | Peak    |
| 2 | 2483.500 | 8.55       | 27.57          | 4.81       | 0.00                | 42.63  | 54.00  | -11.37     | Average |

**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.

Vertical:



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11b-H Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 2 ANT

|            | Read  | Antenna | Cable | Preamp |        | Limit  | Over   |         |
|------------|-------|---------|-------|--------|--------|--------|--------|---------|
| Freq       | Level | Factor  | Loss  | Factor | Level  | Line   | Limit  | Remark  |
| -----      | ----- | -----   | ----- | -----  | -----  | -----  | -----  | -----   |
| MHz        | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |         |
| 1 2483.500 | 18.07 | 27.57   | 4.81  | 0.00   | 52.15  | 74.00  | -21.85 | Peak    |
| 2 2483.500 | 8.55  | 27.57   | 4.81  | 0.00   | 42.63  | 54.00  | -11.37 | Average |

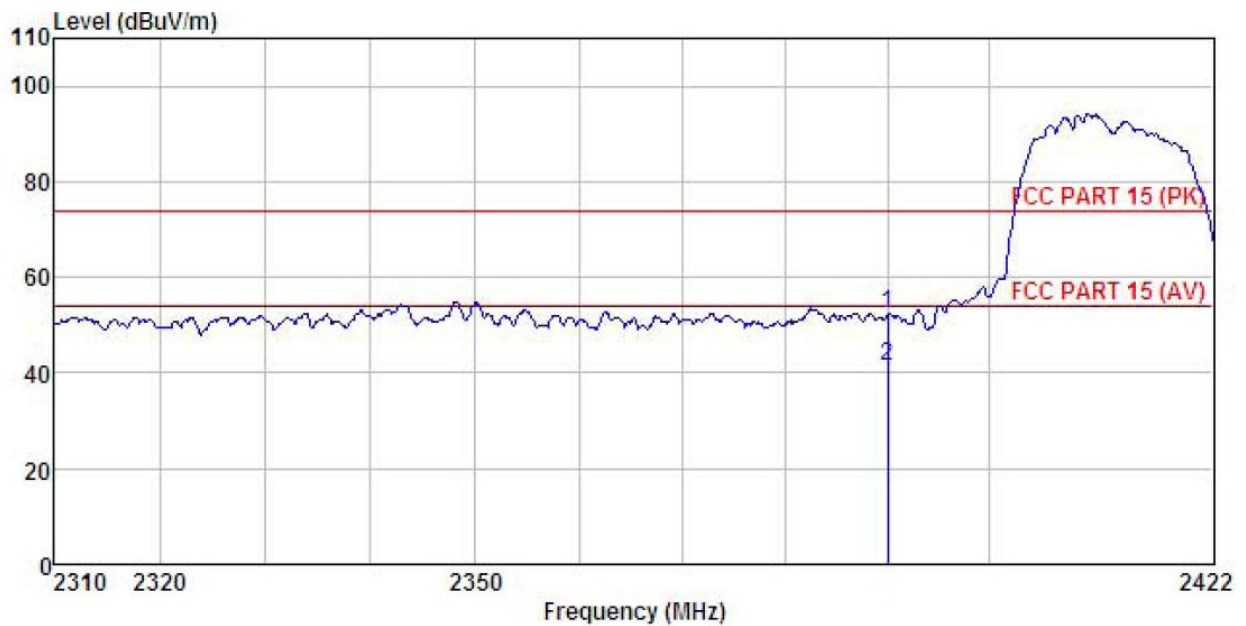
Remark:

- 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.

## 802.11g

Test channel: Lowest

Horizontal:



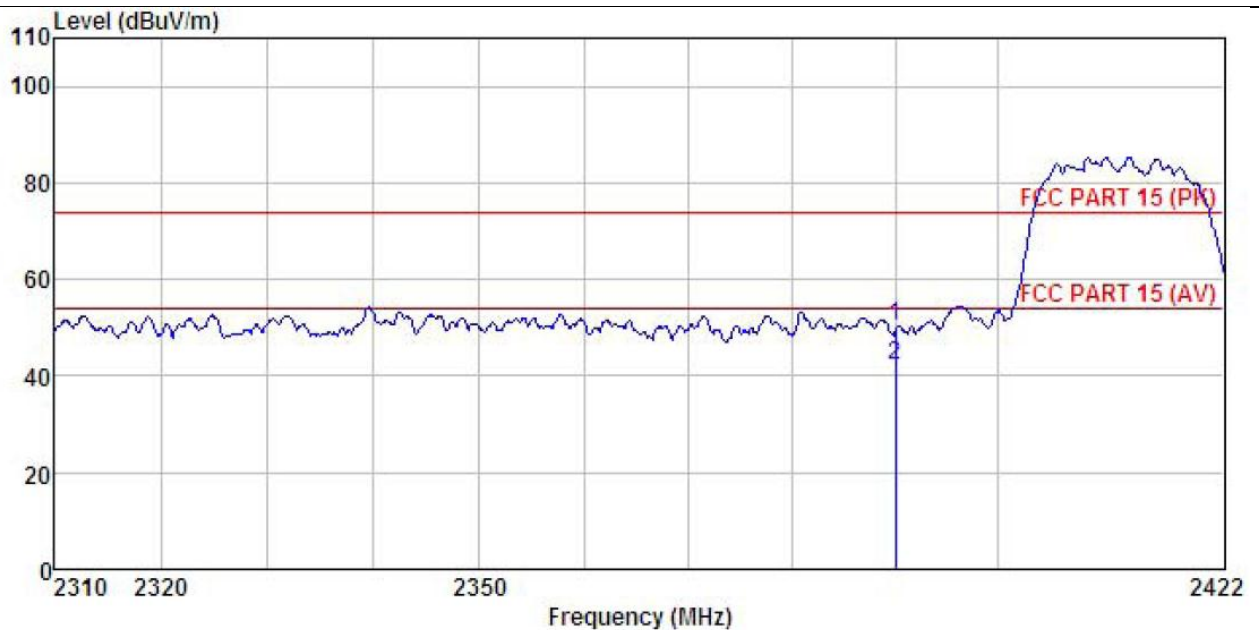
Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11g-L Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 2 ANT

|            | Read  | Antenna | Cable | Preamp |        | Limit  | Over   |         |
|------------|-------|---------|-------|--------|--------|--------|--------|---------|
| Freq       | Level | Factor  | Loss  | Factor | Level  | Line   | Limit  | Remark  |
| -----      | ----- | -----   | ----- | -----  | -----  | -----  | -----  | -----   |
| MHz        | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |         |
| 1 2390.000 | 18.59 | 27.37   | 4.69  | 0.00   | 52.33  | 74.00  | -21.67 | Peak    |
| 2 2390.000 | 7.61  | 27.37   | 4.69  | 0.00   | 41.35  | 54.00  | -12.65 | Average |

### 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.

Vertical:



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11g-L Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 2 ANT

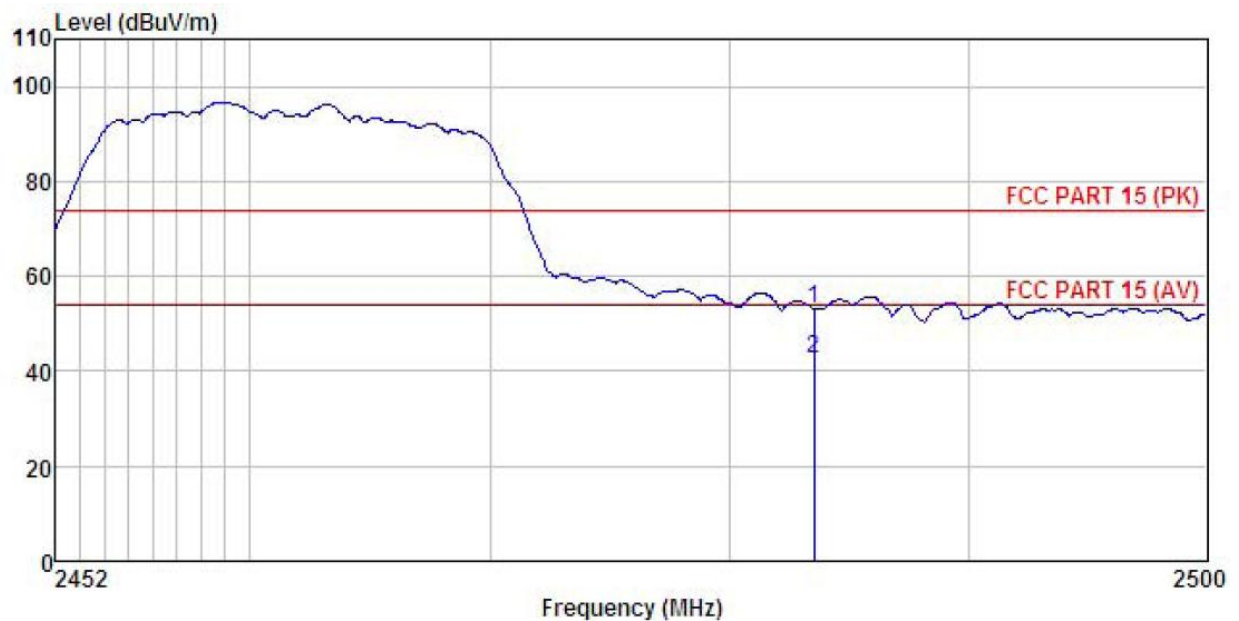
|          | Read      | Antenna   | Cable   | Preamp  |             | Limit       | Over    |                |
|----------|-----------|-----------|---------|---------|-------------|-------------|---------|----------------|
| Freq     | Level     | Factor    | Loss    | Factor  | Level       | Line        | Limit   | Remark         |
| -----MHz | -----dBuV | -----dB/m | -----dB | -----dB | -----dBuV/m | -----dBuV/m | -----dB | -----          |
| 1        | 2390.000  | 16.42     | 27.37   | 4.69    | 0.00        | 50.16       | 74.00   | -23.84 Peak    |
| 2        | 2390.000  | 8.53      | 27.37   | 4.69    | 0.00        | 42.27       | 54.00   | -11.73 Average |

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.

## Test channel: Highest

Horizontal:



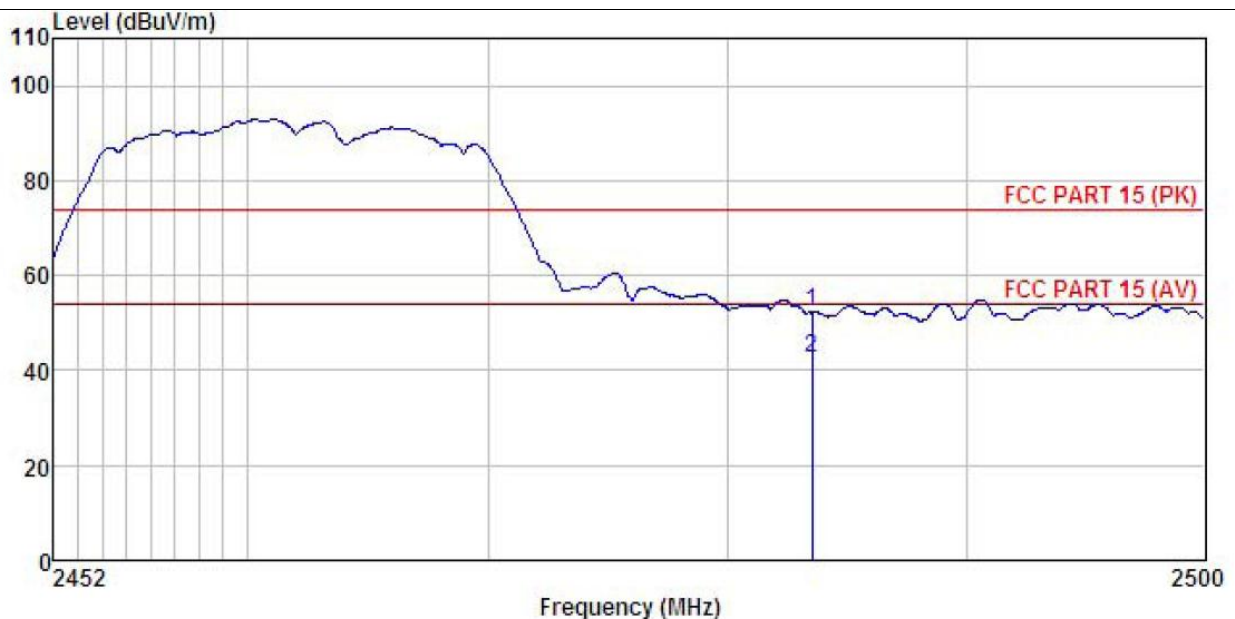
Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11g-H Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 2 ANT

|            | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |                |
|------------|-------------|--------|--------|--------|--------|--------|----------------|
| Freq       | Level       | Factor | Loss   | Factor | Level  | Line   | Limit          |
| -----      | -----       | -----  | -----  | -----  | -----  | -----  | -----          |
| MHz        | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB             |
| 1 2483.500 | 19.09       | 27.57  | 4.81   | 0.00   | 53.17  | 74.00  | -20.83 Peak    |
| 2 2483.500 | 8.66        | 27.57  | 4.81   | 0.00   | 42.74  | 54.00  | -11.26 Average |

### 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.

Vertical:



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11g-H Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 2 ANT

|   | Freq     | Read   | Antenna | Cable  | Preamp | Limit  | Over   |                |
|---|----------|--------|---------|--------|--------|--------|--------|----------------|
|   | Level    | Factor | Loss    | Factor | Level  | Line   | Limit  | Remark         |
|   | MHz      | dBuV   | dB/m    | dB     | dB     | dBuV/m | dBuV/m | dB             |
| 1 | 2483.500 | 18.38  | 27.57   | 4.81   | 0.00   | 52.46  | 74.00  | -21.54 Peak    |
| 2 | 2483.500 | 8.55   | 27.57   | 4.81   | 0.00   | 42.63  | 54.00  | -11.37 Average |

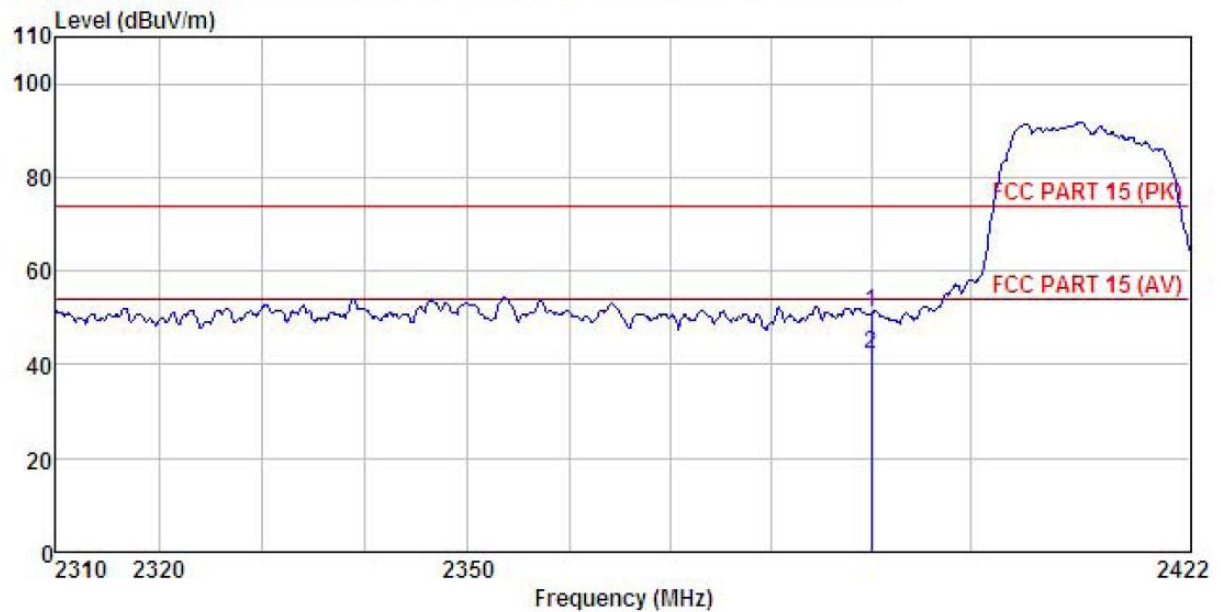
Remark:

- 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.

## 802.11n (H20)

Test channel: Lowest

Horizontal:



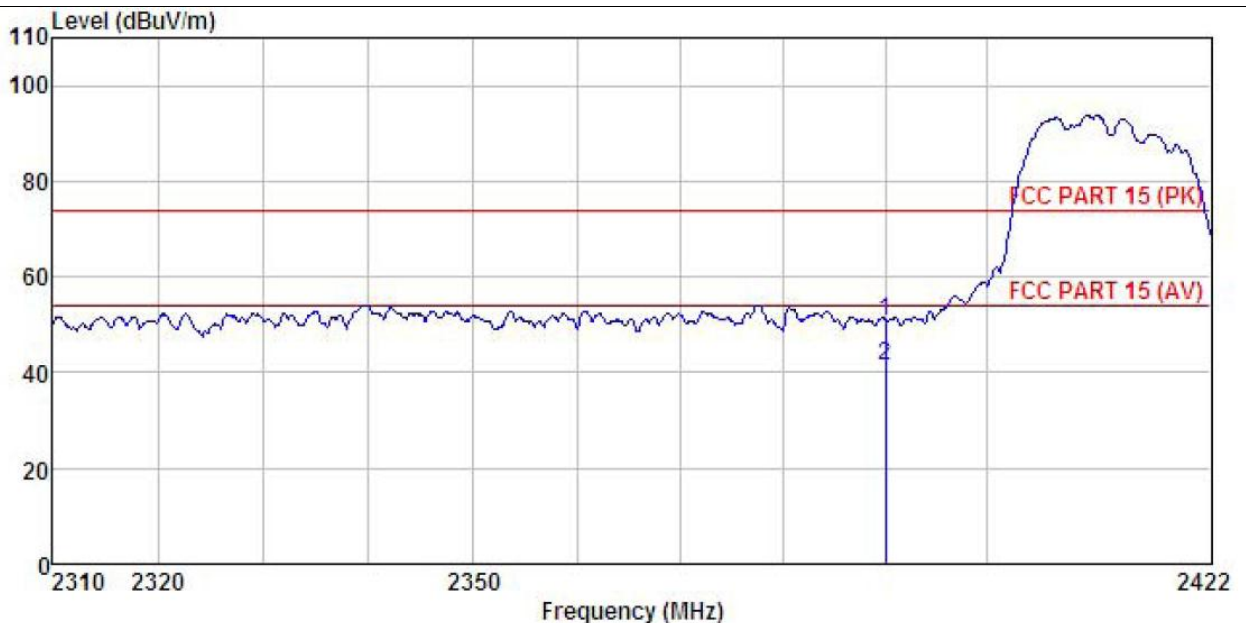
Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11n20-L Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 2 ANT

|            | Read  | Antenna | Cable | Preamp |        | Limit  | Over   |         |
|------------|-------|---------|-------|--------|--------|--------|--------|---------|
| Freq       | Level | Factor  | Loss  | Factor | Level  | Line   | Limit  | Remark  |
| -----      | ----- | -----   | ----- | -----  | -----  | -----  | -----  | -----   |
| MHz        | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |         |
| 1 2390.000 | 17.51 | 27.37   | 4.69  | 0.00   | 51.25  | 74.00  | -22.75 | Peak    |
| 2 2390.000 | 8.64  | 27.37   | 4.69  | 0.00   | 42.38  | 54.00  | -11.62 | Average |

### 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.

Vertical:



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11n20-L Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 2 ANT

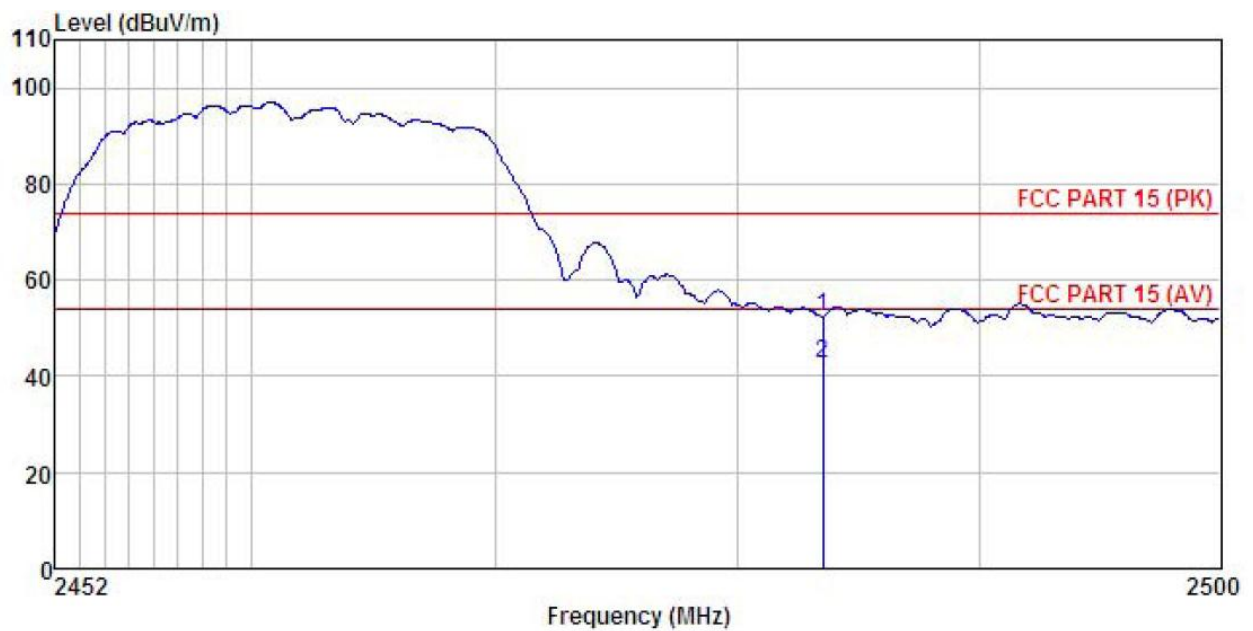
|   |          | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |                |
|---|----------|-------------|--------|--------|--------|--------|--------|----------------|
|   | Freq     | Level       | Factor | Loss   | Factor | Level  | Line   | Limit          |
|   | MHz      | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB             |
| 1 | 2390.000 | 17.07       | 27.37  | 4.69   | 0.00   | 50.81  | 74.00  | -23.19 Peak    |
| 2 | 2390.000 | 7.54        | 27.37  | 4.69   | 0.00   | 41.28  | 54.00  | -12.72 Average |

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.

## Test channel: Highest

Horizontal:



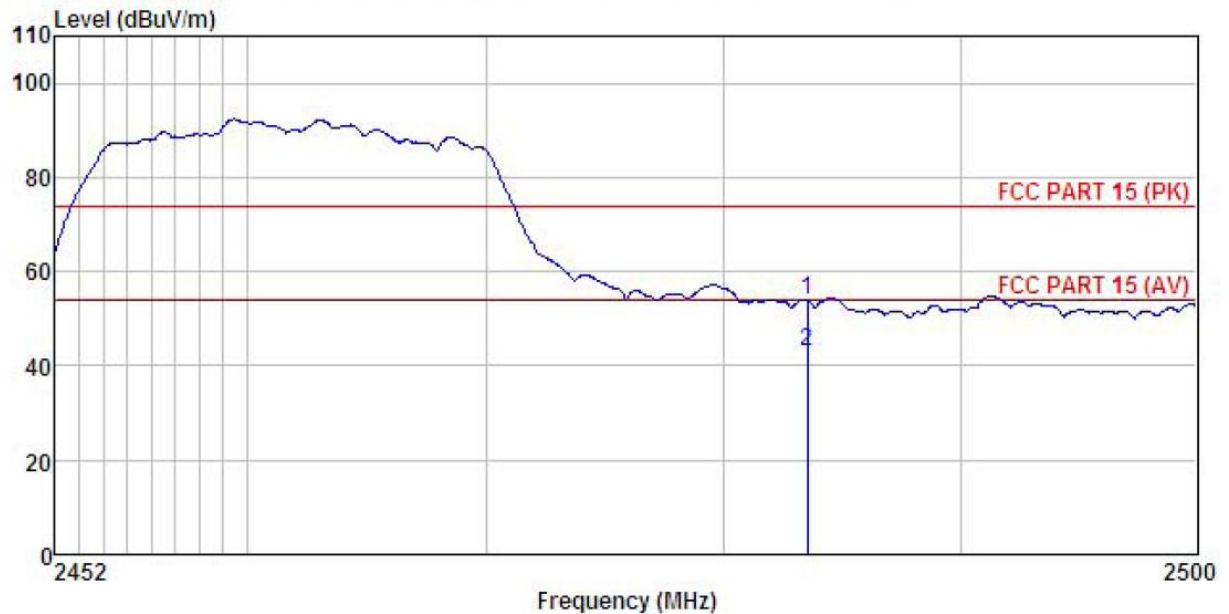
Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11n20-H Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 2 ANT

|   | Freq     | Read  | Antenna | Cable | Preamp | Limit  | Over   |                |
|---|----------|-------|---------|-------|--------|--------|--------|----------------|
|   |          | Level | Factor  | Loss  | Factor | Line   | Limit  | Remark         |
|   | MHz      | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB             |
| 1 | 2483.500 | 18.37 | 27.57   | 4.81  | 0.00   | 52.45  | 74.00  | -21.55 Peak    |
| 2 | 2483.500 | 8.45  | 27.57   | 4.81  | 0.00   | 42.53  | 54.00  | -11.47 Average |

### 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.

Vertical:



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11n20-H Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 2 ANT

|   | Freq     | Read  | Antenna | Cable | Preamp | Level  | Limit  | Over   |         |
|---|----------|-------|---------|-------|--------|--------|--------|--------|---------|
|   |          | Level | Factor  | Loss  | Factor |        | Line   | Limit  | Remark  |
|   | MHz      | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |         |
| 1 | 2483.500 | 19.70 | 27.57   | 4.81  | 0.00   | 53.78  | 74.00  | -20.22 | Peak    |
| 2 | 2483.500 | 8.87  | 27.57   | 4.81  | 0.00   | 42.95  | 54.00  | -11.05 | Average |

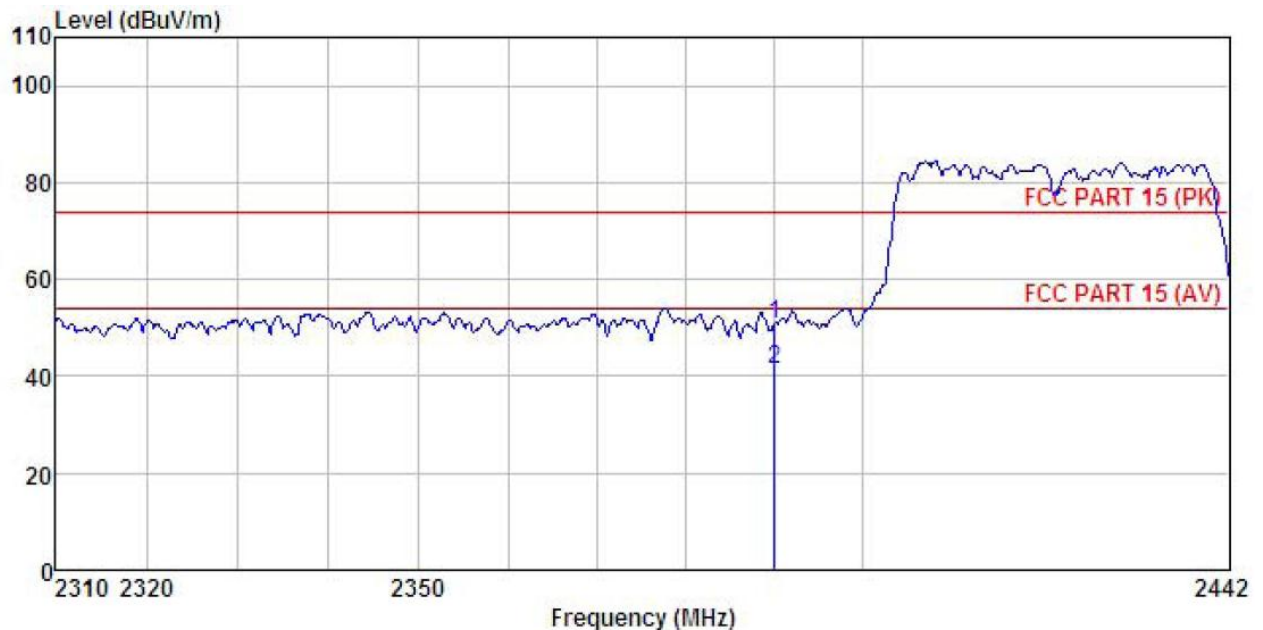
Remark:

- 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.

## 802.11n (H40)

Test channel: Lowest

Horizontal:



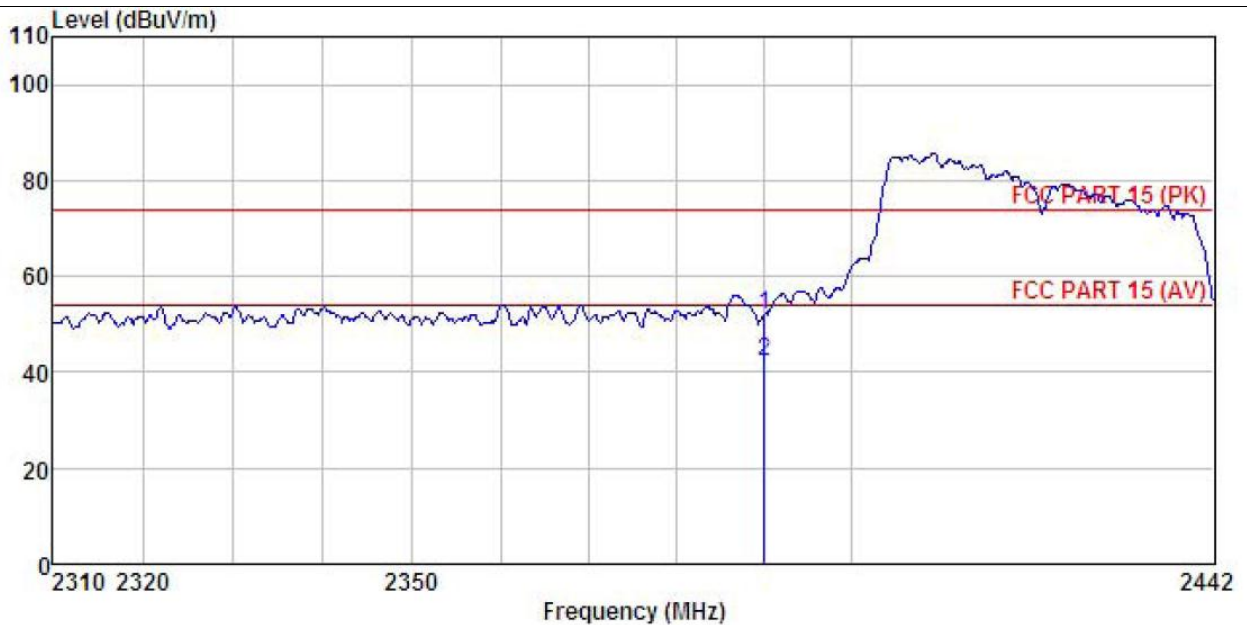
Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11n40-L Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 2 ANT

|   | Freq     | Read Level | Antenna Factor | Cable Loss | Preamplifier Factor | Level  | Limit  | Over Limit | Remark  |
|---|----------|------------|----------------|------------|---------------------|--------|--------|------------|---------|
|   | MHz      | dBuV       | dB/m           | dB         | dB                  | dBuV/m | dBuV/m | dB         |         |
| 1 | 2390.000 | 17.19      | 27.37          | 4.69       | 0.00                | 50.93  | 74.00  | -23.07     | Peak    |
| 2 | 2390.000 | 7.58       | 27.37          | 4.69       | 0.00                | 41.32  | 54.00  | -12.68     | Average |

### 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.

Vertical:



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11n40-L Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 2 ANT

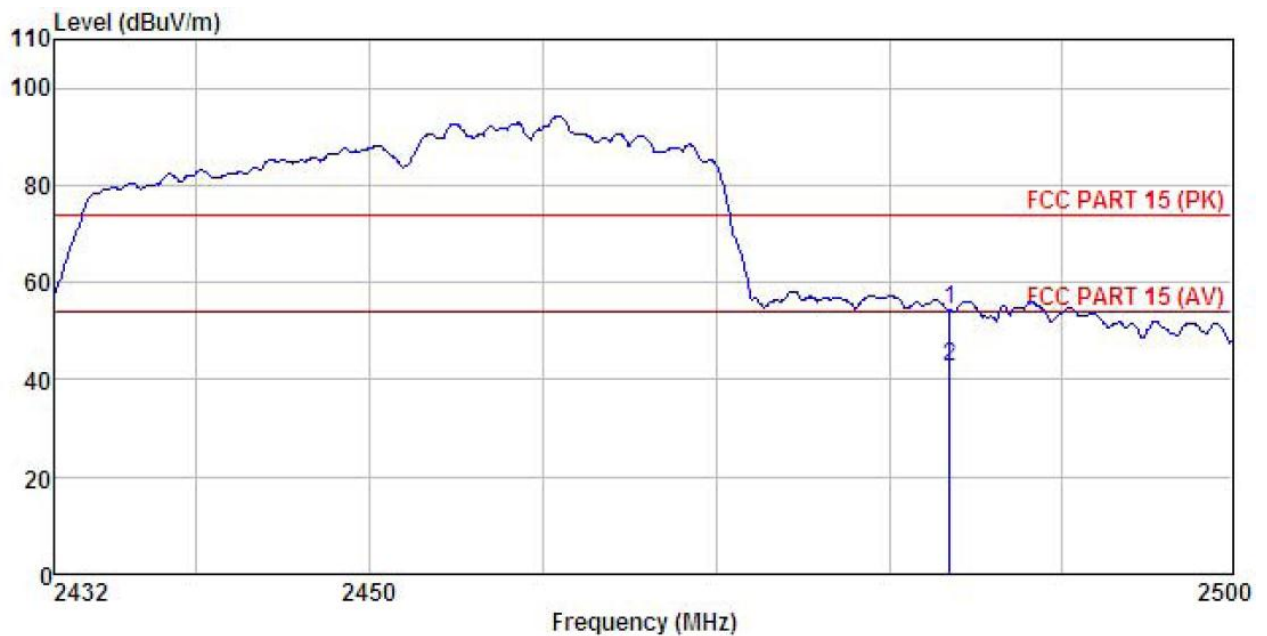
|   |          | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |                |
|---|----------|-------------|--------|--------|--------|--------|--------|----------------|
|   | Freq     | Level       | Factor | Loss   | Factor | Level  | Line   | Limit          |
|   | MHz      | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB             |
| 1 | 2390.000 | 18.41       | 27.37  | 4.69   | 0.00   | 52.15  | 74.00  | -21.85 Peak    |
| 2 | 2390.000 | 8.54        | 27.37  | 4.69   | 0.00   | 42.28  | 54.00  | -11.72 Average |

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.

## Test channel: Highest

Horizontal:



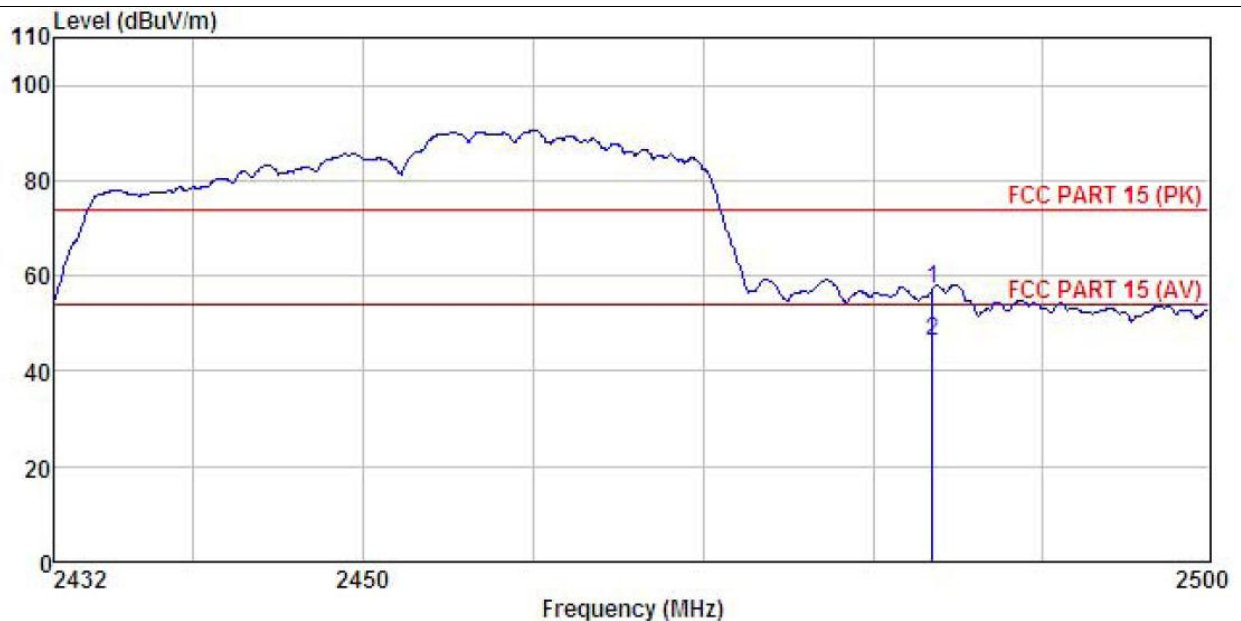
Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11n40-H Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 2 ANT

|   | Freq     | Read Level | Antenna Factor | Cable Loss | Preamplifier Factor | Level  | Limit  | Over Limit | Remark  |
|---|----------|------------|----------------|------------|---------------------|--------|--------|------------|---------|
|   | MHz      | dBuV       | dB/m           | dB         | dB                  | dBuV/m | dBuV/m | dB         |         |
| 1 | 2483.500 | 20.26      | 27.57          | 4.81       | 0.00                | 54.34  | 74.00  | -19.66     | Peak    |
| 2 | 2483.500 | 8.59       | 27.57          | 4.81       | 0.00                | 42.67  | 54.00  | -11.33     | Average |

### 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.

Vertical:



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL  
 EUT : WiFi Media Streaming Module  
 Model : LS9AD-AC11DBT  
 Test mode : 802.11n40-H Mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55% 101KPa  
 Test Engineer: YT  
 REMARK : 2 ANT

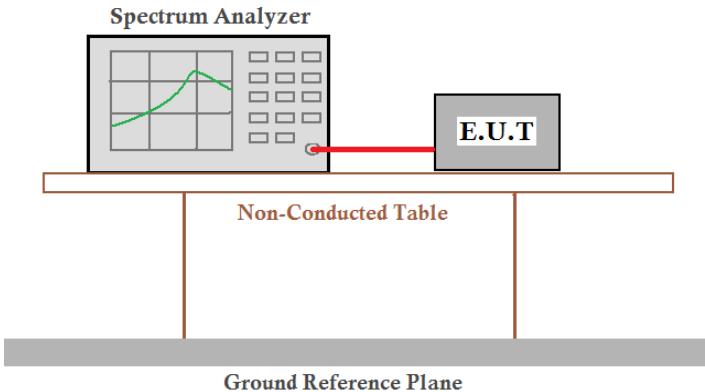
|   | Freq     | Read  | Antenna | Cable | Preamp | Limit  | Over   |               |
|---|----------|-------|---------|-------|--------|--------|--------|---------------|
|   |          | Level | Factor  | Loss  | Factor | Line   | Limit  | Remark        |
|   | MHz      | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB            |
| 1 | 2483.500 | 23.23 | 27.57   | 4.81  | 0.00   | 57.31  | 74.00  | -16.69 Peak   |
| 2 | 2483.500 | 12.25 | 27.57   | 4.81  | 0.00   | 46.33  | 54.00  | -7.67 Average |

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.

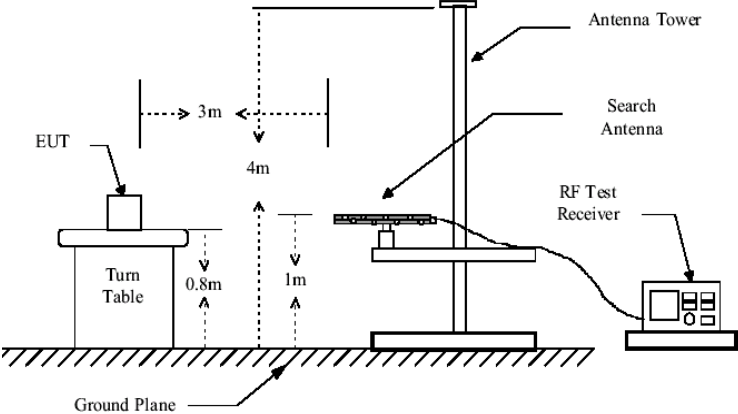
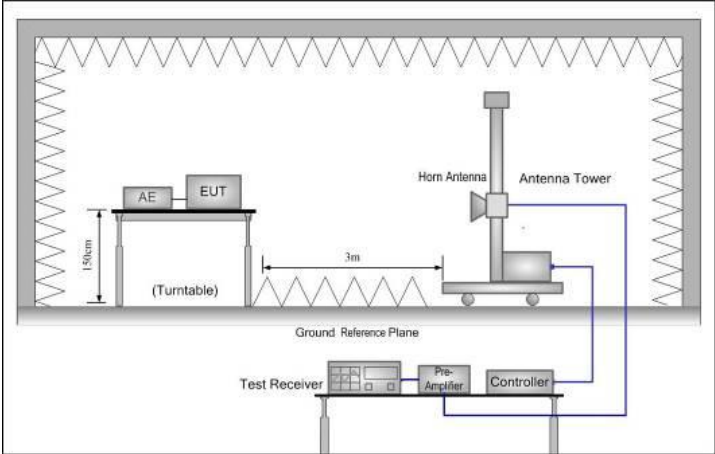
## 6.7 Spurious Emission

### 6.7.1 Conducted Emission Method

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part 15 C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Test Method:      | ANSI C63.10:2013 and KDB558074v01r04 section 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Limit:            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. |
| Test setup:       |  <p>The diagram illustrates the test setup for conducted emissions. A Spectrum Analyzer, shown with a grid and a green trace, 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 sits on a thick grey horizontal bar labeled 'Ground Reference Plane'.</p>                                                                                                                            |
| Test Instruments: | Refer to section 5.7 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Test results:     | Please refer to the FCC ID: 2ADBM-LS9ADAC11DBT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## 6.7.2 Radiated Emission Method

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                    |        |                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|--------|------------------|
| Test Requirement:     | FCC Part 15 C Section 15.209 and 15.205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |                    |        |                  |
| Test Method:          | ANSI C63.10:2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |                    |        |                  |
| Test Frequency Range: | 9kHz to 25GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                    |        |                  |
| Test site:            | Measurement Distance: 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |                    |        |                  |
| Receiver setup:       | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Detector   | RBW                | VBW    | Remark           |
|                       | 30MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Quasi-peak | 120KHz             | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 54.0               |        | Average Value    |
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | 74.0               |        | Peak Value       |
| Test Procedure:       | <div>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 chamber. 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> |            |                    |        |                  |

|                          |                                                                                                                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Test setup:</p>       | <p>Below 1GHz</p>  <p>Above 1GHz</p>                                               |
| <p>Test Instruments:</p> | <p>Refer to section 5.7 for details</p>                                                                                                                                                                                                                 |
| <p>Test mode:</p>        | <p>Refer to section 5.3 for details</p>                                                                                                                                                                                                                 |
| <p>Test results:</p>     | <p>Passed</p>                                                                                                                                                                                                                                           |
| <p>Remark:</p>           | <ol style="list-style-type: none"> <li>1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.</li> <li>2. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report.</li> </ol> |

**Below 1GHz**

Please refer to the FCC ID: 2ADBM-LS9ADAC11DBT

## Above 1GHz

### Test data:

### Rod Antenna:

### TX1

| Test mode: 802.11b |                   |                       | Test channel: Lowest |                    |                | Remark: Peak        |                 |            |
|--------------------|-------------------|-----------------------|----------------------|--------------------|----------------|---------------------|-----------------|------------|
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4824.00            | 47.92             | 36.06                 | 6.81                 | 41.82              | 48.97          | 74.00               | -25.03          | Vertical   |
| 4824.00            | 48.56             | 36.06                 | 6.81                 | 41.82              | 49.61          | 74.00               | -24.39          | Horizontal |
| Test mode: 802.11b |                   |                       | Test channel: Lowest |                    |                | Remark: Average     |                 |            |
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4824.00            | 39.62             | 36.06                 | 6.81                 | 41.82              | 40.67          | 54.00               | -13.33          | Vertical   |
| 4824.00            | 40.11             | 36.06                 | 6.81                 | 41.82              | 41.16          | 54.00               | -12.84          | Horizontal |

| Test mode: 802.11b |                   |                       | Test channel: Middle |                    |                | Remark: Peak        |                 |            |
|--------------------|-------------------|-----------------------|----------------------|--------------------|----------------|---------------------|-----------------|------------|
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4874.00            | 48.55             | 36.32                 | 6.85                 | 41.84              | 49.88          | 74.00               | -24.12          | Vertical   |
| 4874.00            | 49.20             | 36.32                 | 6.85                 | 41.84              | 50.53          | 74.00               | -23.47          | Horizontal |
| Test mode: 802.11b |                   |                       | Test channel: Middle |                    |                | Remark: Average     |                 |            |
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4874.00            | 39.56             | 36.32                 | 6.85                 | 41.84              | 40.89          | 54.00               | -13.11          | Vertical   |
| 4874.00            | 38.51             | 36.32                 | 6.85                 | 41.84              | 39.84          | 54.00               | -14.16          | Horizontal |

| Test mode: 802.11b |                   |                       | Test channel: Highest |                    |                | Remark: Peak        |                 |            |
|--------------------|-------------------|-----------------------|-----------------------|--------------------|----------------|---------------------|-----------------|------------|
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)       | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4924.00            | 49.52             | 36.58                 | 6.89                  | 41.86              | 51.13          | 74.00               | -22.87          | Vertical   |
| 4924.00            | 50.14             | 36.58                 | 6.89                  | 41.86              | 51.75          | 74.00               | -22.25          | Horizontal |
| Test mode: 802.11b |                   |                       | Test channel: Highest |                    |                | Remark: Average     |                 |            |
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)       | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4924.00            | 39.60             | 36.58                 | 6.89                  | 41.86              | 41.21          | 54.00               | -12.79          | Vertical   |
| 4924.00            | 40.02             | 36.58                 | 6.89                  | 41.86              | 41.63          | 54.00               | -12.37          | Horizontal |

| Test mode: 802.11g |                   |                       | Test channel: Lowest |                          |              | Remark: Peak        |                 |            |
|--------------------|-------------------|-----------------------|----------------------|--------------------------|--------------|---------------------|-----------------|------------|
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamplifier Factor (dB) | Level (dBuV) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4824.00            | 49.86             | 36.06                 | 6.81                 | 41.82                    | 50.91        | 74.00               | -23.09          | Vertical   |
| 4824.00            | 48.52             | 36.06                 | 6.81                 | 41.82                    | 49.57        | 74.00               | -24.43          | Horizontal |
| Test mode: 802.11g |                   |                       | Test channel: Lowest |                          |              | Remark: Average     |                 |            |
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamplifier Factor (dB) | Level (dBuV) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4824.00            | 39.62             | 36.06                 | 6.81                 | 41.82                    | 40.67        | 54.00               | -13.33          | Vertical   |
| 4824.00            | 38.51             | 36.06                 | 6.81                 | 41.82                    | 39.56        | 54.00               | -14.44          | Horizontal |

| Test mode: 802.11g |                   |                       | Test channel: Middle |                          |              | Remark: Peak        |                 |            |
|--------------------|-------------------|-----------------------|----------------------|--------------------------|--------------|---------------------|-----------------|------------|
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamplifier Factor (dB) | Level (dBuV) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4874.00            | 49.62             | 36.32                 | 6.85                 | 41.84                    | 50.95        | 74.00               | -23.05          | Vertical   |
| 4874.00            | 48.77             | 36.32                 | 6.85                 | 41.84                    | 50.10        | 74.00               | -23.90          | Horizontal |
| Test mode: 802.11g |                   |                       | Test channel: Middle |                          |              | Remark: Average     |                 |            |
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamplifier Factor (dB) | Level (dBuV) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4874.00            | 39.62             | 36.32                 | 6.85                 | 41.84                    | 40.95        | 54.00               | -13.05          | Vertical   |
| 4874.00            | 38.51             | 36.32                 | 6.85                 | 41.84                    | 39.84        | 54.00               | -14.16          | Horizontal |

| Test mode: 802.11g |                   |                       | Test channel: Highest |                          |              | Remark: Peak        |                 |            |
|--------------------|-------------------|-----------------------|-----------------------|--------------------------|--------------|---------------------|-----------------|------------|
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)       | Preamplifier Factor (dB) | Level (dBuV) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4924.00            | 49.62             | 36.58                 | 6.89                  | 41.86                    | 51.23        | 74.00               | -22.77          | Vertical   |
| 4924.00            | 48.55             | 36.58                 | 6.89                  | 41.86                    | 50.16        | 74.00               | -23.84          | Horizontal |
| Test mode: 802.11g |                   |                       | Test channel: Highest |                          |              | Remark: Average     |                 |            |
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)       | Preamplifier Factor (dB) | Level (dBuV) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4924.00            | 39.25             | 36.58                 | 6.89                  | 41.86                    | 40.86        | 54.00               | -13.14          | Vertical   |
| 4924.00            | 40.15             | 36.58                 | 6.89                  | 41.86                    | 41.76        | 54.00               | -12.24          | Horizontal |

| Test mode: 802.11n(H20) |                   |                       | Test channel: Lowest |                    |                | Remark: Peak        |                 |            |
|-------------------------|-------------------|-----------------------|----------------------|--------------------|----------------|---------------------|-----------------|------------|
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4824.00                 | 49.56             | 36.06                 | 6.81                 | 41.82              | 50.61          | 74.00               | -23.39          | Vertical   |
| 4824.00                 | 48.81             | 36.06                 | 6.81                 | 41.82              | 49.86          | 74.00               | -24.14          | Horizontal |
| Test mode: 802.11n(H20) |                   |                       | Test channel: Lowest |                    |                | Remark: Average     |                 |            |
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4824.00                 | 39.62             | 36.06                 | 6.81                 | 41.82              | 40.67          | 54.00               | -13.33          | Vertical   |
| 4824.00                 | 38.55             | 36.06                 | 6.81                 | 41.82              | 39.60          | 54.00               | -14.40          | Horizontal |

| Test mode: 802.11n(H20) |                   |                       | Test channel: Middle |                    |                | Remark: Peak        |                 |            |
|-------------------------|-------------------|-----------------------|----------------------|--------------------|----------------|---------------------|-----------------|------------|
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4874.00                 | 48.14             | 36.32                 | 6.85                 | 41.84              | 49.47          | 74.00               | -24.53          | Vertical   |
| 4874.00                 | 49.32             | 36.32                 | 6.85                 | 41.84              | 50.65          | 74.00               | -23.35          | Horizontal |
| Test mode: 802.11n(H20) |                   |                       | Test channel: Middle |                    |                | Remark: Average     |                 |            |
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4874.00                 | 39.60             | 36.32                 | 6.85                 | 41.84              | 40.93          | 54.00               | -13.07          | Vertical   |
| 4874.00                 | 37.57             | 36.32                 | 6.85                 | 41.84              | 38.90          | 54.00               | -15.10          | Horizontal |

| Test mode: 802.11n(H20) |                   |                       | Test channel: Highest |                    |                | Remark: Peak        |                 |            |
|-------------------------|-------------------|-----------------------|-----------------------|--------------------|----------------|---------------------|-----------------|------------|
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)       | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4924.00                 | 48.95             | 36.58                 | 6.89                  | 41.86              | 50.56          | 74.00               | -23.44          | Vertical   |
| 4924.00                 | 47.19             | 36.58                 | 6.89                  | 41.86              | 48.80          | 74.00               | -25.20          | Horizontal |
| Test mode: 802.11n(H20) |                   |                       | Test channel: Highest |                    |                | Remark: Average     |                 |            |
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)       | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4924.00                 | 39.62             | 36.58                 | 6.89                  | 41.86              | 41.23          | 54.00               | -12.77          | Vertical   |
| 4924.00                 | 38.51             | 36.58                 | 6.89                  | 41.86              | 40.12          | 54.00               | -13.88          | Horizontal |

| Test mode: 802.11n(H40) |                   |                       | Test channel: Lowest |                    |                | Remark: Peak        |                 |            |
|-------------------------|-------------------|-----------------------|----------------------|--------------------|----------------|---------------------|-----------------|------------|
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4844.00                 | 49.89             | 36.06                 | 6.81                 | 41.82              | 50.94          | 74.00               | -23.06          | Vertical   |
| 4844.00                 | 48.51             | 36.06                 | 6.81                 | 41.82              | 49.56          | 74.00               | -24.44          | Horizontal |
| Test mode: 802.11n(H40) |                   |                       | Test channel: Lowest |                    |                | Remark: Average     |                 |            |
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4844.00                 | 39.25             | 36.06                 | 6.81                 | 41.82              | 40.30          | 54.00               | -13.70          | Vertical   |
| 4844.00                 | 40.15             | 36.06                 | 6.81                 | 41.82              | 41.20          | 54.00               | -12.80          | Horizontal |

| Test mode: 802.11n(H40) |                   |                       | Test channel: Middle |                    |                | Remark: Peak        |                 |            |
|-------------------------|-------------------|-----------------------|----------------------|--------------------|----------------|---------------------|-----------------|------------|
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4874.00                 | 49.87             | 36.32                 | 6.85                 | 41.84              | 51.20          | 74.00               | -22.80          | Vertical   |
| 4874.00                 | 48.55             | 36.32                 | 6.85                 | 41.84              | 49.88          | 74.00               | -24.12          | Horizontal |
| Test mode: 802.11n(H40) |                   |                       | Test channel: Middle |                    |                | Remark: Average     |                 |            |
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4874.00                 | 39.62             | 36.32                 | 6.85                 | 41.84              | 40.95          | 54.00               | -13.05          | Vertical   |
| 4874.00                 | 40.15             | 36.32                 | 6.85                 | 41.84              | 41.48          | 54.00               | -12.52          | Horizontal |

| Test mode: 802.11n(H40) |                   |                       | Test channel: Highest |                    |                | Remark: Peak        |                 |            |
|-------------------------|-------------------|-----------------------|-----------------------|--------------------|----------------|---------------------|-----------------|------------|
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)       | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4904.00                 | 49.78             | 36.45                 | 6.87                  | 41.85              | 51.25          | 74.00               | -22.75          | Vertical   |
| 4904.00                 | 48.51             | 36.45                 | 6.87                  | 41.85              | 49.98          | 74.00               | -24.02          | Horizontal |
| Test mode: 802.11n(H40) |                   |                       | Test channel: Highest |                    |                | Remark: Average     |                 |            |
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)       | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4904.00                 | 38.55             | 36.45                 | 6.87                  | 41.85              | 40.02          | 54.00               | -13.98          | Vertical   |
| 4904.00                 | 39.62             | 36.45                 | 6.87                  | 41.85              | 41.09          | 54.00               | -12.91          | Horizontal |

**Rod Antenna:  
TX2**

| Test mode: 802.11b |                   |                       | Test channel: Lowest |                    |                | Remark: Peak        |                 |            |
|--------------------|-------------------|-----------------------|----------------------|--------------------|----------------|---------------------|-----------------|------------|
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4824.00            | 50.23             | 36.06                 | 6.81                 | 41.82              | 51.28          | 74.00               | -22.72          | Vertical   |
| 4824.00            | 52.13             | 36.06                 | 6.81                 | 41.82              | 53.18          | 74.00               | -20.82          | Horizontal |
| Test mode: 802.11b |                   |                       | Test channel: Lowest |                    |                | Remark: Average     |                 |            |
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4824.00            | 40.26             | 36.06                 | 6.81                 | 41.82              | 41.31          | 54.00               | -12.69          | Vertical   |
| 4824.00            | 41.29             | 36.06                 | 6.81                 | 41.82              | 42.34          | 54.00               | -11.66          | Horizontal |

| Test mode: 802.11b |                   |                       | Test channel: Middle |                    |                | Remark: Peak        |                 |            |
|--------------------|-------------------|-----------------------|----------------------|--------------------|----------------|---------------------|-----------------|------------|
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4874.00            | 50.23             | 36.32                 | 6.85                 | 41.84              | 51.56          | 74.00               | -22.44          | Vertical   |
| 4874.00            | 49.68             | 36.32                 | 6.85                 | 41.84              | 51.01          | 74.00               | -22.99          | Horizontal |
| Test mode: 802.11b |                   |                       | Test channel: Middle |                    |                | Remark: Average     |                 |            |
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4874.00            | 40.12             | 36.32                 | 6.85                 | 41.84              | 41.45          | 54.00               | -12.55          | Vertical   |
| 4874.00            | 39.98             | 36.32                 | 6.85                 | 41.84              | 41.31          | 54.00               | -12.69          | Horizontal |

| Test mode: 802.11b |                   |                       | Test channel: Highest |                    |                | Remark: Peak        |                 |            |
|--------------------|-------------------|-----------------------|-----------------------|--------------------|----------------|---------------------|-----------------|------------|
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)       | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4924.00            | 50.36             | 36.58                 | 6.89                  | 41.86              | 51.97          | 74.00               | -22.03          | Vertical   |
| 4924.00            | 49.87             | 36.58                 | 6.89                  | 41.86              | 51.48          | 74.00               | -22.52          | Horizontal |
| Test mode: 802.11b |                   |                       | Test channel: Highest |                    |                | Remark: Average     |                 |            |
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)       | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4924.00            | 40.36             | 36.58                 | 6.89                  | 41.86              | 41.97          | 54.00               | -12.03          | Vertical   |
| 4924.00            | 39.62             | 36.58                 | 6.89                  | 41.86              | 41.23          | 54.00               | -12.77          | Horizontal |

| Test mode: 802.11g |                   |                       | Test channel: Lowest |                          |              | Remark: Peak        |                 |            |
|--------------------|-------------------|-----------------------|----------------------|--------------------------|--------------|---------------------|-----------------|------------|
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamplifier Factor (dB) | Level (dBuV) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4824.00            | 51.26             | 36.06                 | 6.81                 | 41.82                    | 52.31        | 74.00               | -21.69          | Vertical   |
| 4824.00            | 50.63             | 36.06                 | 6.81                 | 41.82                    | 51.68        | 74.00               | -22.32          | Horizontal |
| Test mode: 802.11g |                   |                       | Test channel: Lowest |                          |              | Remark: Average     |                 |            |
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamplifier Factor (dB) | Level (dBuV) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4824.00            | 41.59             | 36.06                 | 6.81                 | 41.82                    | 42.64        | 54.00               | -11.36          | Vertical   |
| 4824.00            | 39.69             | 36.06                 | 6.81                 | 41.82                    | 40.74        | 54.00               | -13.26          | Horizontal |

| Test mode: 802.11g |                   |                       | Test channel: Middle |                          |              | Remark: Peak        |                 |            |
|--------------------|-------------------|-----------------------|----------------------|--------------------------|--------------|---------------------|-----------------|------------|
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamplifier Factor (dB) | Level (dBuV) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4874.00            | 50.15             | 36.32                 | 6.85                 | 41.84                    | 51.48        | 74.00               | -22.52          | Vertical   |
| 4874.00            | 49.78             | 36.32                 | 6.85                 | 41.84                    | 51.11        | 74.00               | -22.89          | Horizontal |
| Test mode: 802.11g |                   |                       | Test channel: Middle |                          |              | Remark: Average     |                 |            |
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamplifier Factor (dB) | Level (dBuV) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4874.00            | 41.63             | 36.32                 | 6.85                 | 41.84                    | 42.96        | 54.00               | -11.04          | Vertical   |
| 4874.00            | 40.69             | 36.32                 | 6.85                 | 41.84                    | 42.02        | 54.00               | -11.98          | Horizontal |

| Test mode: 802.11g |                   |                       | Test channel: Highest |                          |              | Remark: Peak        |                 |            |
|--------------------|-------------------|-----------------------|-----------------------|--------------------------|--------------|---------------------|-----------------|------------|
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)       | Preamplifier Factor (dB) | Level (dBuV) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4924.00            | 49.62             | 36.58                 | 6.89                  | 41.86                    | 51.23        | 74.00               | -22.77          | Vertical   |
| 4924.00            | 50.34             | 36.58                 | 6.89                  | 41.86                    | 51.95        | 74.00               | -22.05          | Horizontal |
| Test mode: 802.11g |                   |                       | Test channel: Highest |                          |              | Remark: Average     |                 |            |
| Frequency (MHz)    | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)       | Preamplifier Factor (dB) | Level (dBuV) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4924.00            | 40.19             | 36.58                 | 6.89                  | 41.86                    | 41.80        | 54.00               | -12.20          | Vertical   |
| 4924.00            | 39.78             | 36.58                 | 6.89                  | 41.86                    | 41.39        | 54.00               | -12.61          | Horizontal |

| Test mode: 802.11n(H20) |                   |                       | Test channel: Lowest |                    |                | Remark: Peak        |                 |            |
|-------------------------|-------------------|-----------------------|----------------------|--------------------|----------------|---------------------|-----------------|------------|
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4824.00                 | 51.46             | 36.06                 | 6.81                 | 41.82              | 52.51          | 74.00               | -21.49          | Vertical   |
| 4824.00                 | 49.62             | 36.06                 | 6.81                 | 41.82              | 50.67          | 74.00               | -23.33          | Horizontal |
| Test mode: 802.11n(H20) |                   |                       | Test channel: Lowest |                    |                | Remark: Average     |                 |            |
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4824.00                 | 41.23             | 36.06                 | 6.81                 | 41.82              | 42.28          | 54.00               | -11.72          | Vertical   |
| 4824.00                 | 39.78             | 36.06                 | 6.81                 | 41.82              | 40.83          | 54.00               | -13.17          | Horizontal |

| Test mode: 802.11n(H20) |                   |                       | Test channel: Middle |                    |                | Remark: Peak        |                 |            |
|-------------------------|-------------------|-----------------------|----------------------|--------------------|----------------|---------------------|-----------------|------------|
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4874.00                 | 50.16             | 36.32                 | 6.85                 | 41.84              | 51.49          | 74.00               | -22.51          | Vertical   |
| 4874.00                 | 49.68             | 36.32                 | 6.85                 | 41.84              | 51.01          | 74.00               | -22.99          | Horizontal |
| Test mode: 802.11n(H20) |                   |                       | Test channel: Middle |                    |                | Remark: Average     |                 |            |
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4874.00                 | 40.75             | 36.32                 | 6.85                 | 41.84              | 42.08          | 54.00               | -11.92          | Vertical   |
| 4874.00                 | 41.95             | 36.32                 | 6.85                 | 41.84              | 43.28          | 54.00               | -10.72          | Horizontal |

| Test mode: 802.11n(H20) |                   |                       | Test channel: Highest |                    |                | Remark: Peak        |                 |            |
|-------------------------|-------------------|-----------------------|-----------------------|--------------------|----------------|---------------------|-----------------|------------|
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)       | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4924.00                 | 49.62             | 36.58                 | 6.89                  | 41.86              | 51.23          | 74.00               | -22.77          | Vertical   |
| 4924.00                 | 50.24             | 36.58                 | 6.89                  | 41.86              | 51.85          | 74.00               | -22.15          | Horizontal |
| Test mode: 802.11n(H20) |                   |                       | Test channel: Highest |                    |                | Remark: Average     |                 |            |
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)       | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4924.00                 | 39.62             | 36.58                 | 6.89                  | 41.86              | 41.23          | 54.00               | -12.77          | Vertical   |
| 4924.00                 | 40.19             | 36.58                 | 6.89                  | 41.86              | 41.80          | 54.00               | -12.20          | Horizontal |

| Test mode: 802.11n(H40) |                   |                       | Test channel: Lowest |                    |                | Remark: Peak        |                 |            |
|-------------------------|-------------------|-----------------------|----------------------|--------------------|----------------|---------------------|-----------------|------------|
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4844.00                 | 39.62             | 36.06                 | 6.81                 | 41.82              | 40.67          | 74.00               | -33.33          | Vertical   |
| 4844.00                 | 47.15             | 36.06                 | 6.81                 | 41.82              | 48.20          | 74.00               | -25.80          | Horizontal |
| Test mode: 802.11n(H40) |                   |                       | Test channel: Lowest |                    |                | Remark: Average     |                 |            |
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4844.00                 | 40.69             | 36.06                 | 6.81                 | 41.82              | 41.74          | 54.00               | -12.26          | Vertical   |
| 4844.00                 | 39.51             | 36.06                 | 6.81                 | 41.82              | 40.56          | 54.00               | -13.44          | Horizontal |

| Test mode: 802.11n(H40) |                   |                       | Test channel: Middle |                    |                | Remark: Peak        |                 |            |
|-------------------------|-------------------|-----------------------|----------------------|--------------------|----------------|---------------------|-----------------|------------|
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4874.00                 | 50.26             | 36.32                 | 6.85                 | 41.84              | 51.59          | 74.00               | -22.41          | Vertical   |
| 4874.00                 | 51.36             | 36.32                 | 6.85                 | 41.84              | 52.69          | 74.00               | -21.31          | Horizontal |
| Test mode: 802.11n(H40) |                   |                       | Test channel: Middle |                    |                | Remark: Average     |                 |            |
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)      | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4874.00                 | 41.36             | 36.32                 | 6.85                 | 41.84              | 42.69          | 54.00               | -11.31          | Vertical   |
| 4874.00                 | 39.98             | 36.32                 | 6.85                 | 41.84              | 41.31          | 54.00               | -12.69          | Horizontal |

| Test mode: 802.11n(H40) |                   |                       | Test channel: Highest |                    |                | Remark: Peak        |                 |            |
|-------------------------|-------------------|-----------------------|-----------------------|--------------------|----------------|---------------------|-----------------|------------|
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)       | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4904.00                 | 51.45             | 36.45                 | 6.87                  | 41.85              | 52.92          | 74.00               | -21.08          | Vertical   |
| 4904.00                 | 49.89             | 36.45                 | 6.87                  | 41.85              | 51.36          | 74.00               | -22.64          | Horizontal |
| Test mode: 802.11n(H40) |                   |                       | Test channel: Highest |                    |                | Remark: Average     |                 |            |
| Frequency (MHz)         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB)       | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar.     |
| 4904.00                 | 39.60             | 36.45                 | 6.87                  | 41.85              | 41.07          | 54.00               | -12.93          | Vertical   |
| 4904.00                 | 40.14             | 36.45                 | 6.87                  | 41.85              | 41.61          | 54.00               | -12.39          | Horizontal |