



## MEASUREMENT REPORT

### FCC PART 15.247 WLAN 802.11b/g/n

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**FCC ID:** XR3-C67

**APPLICANT:** ONYX INTERNATIONAL INC.

**Application Type:** Certification

**Product:** E-reader

**Model No.:** C67, C67ML, C67HD, C67S, C67SML, C67 Touch, C67ML Carta, C67ML Carta2, ONYX BOOX C67ML MAGELLAN 2, ONYX BOOX C67M ERMAK 2, ONYX BOOX C67SML COLUMBUS, Tagus Lux, Tagus Tactil, ONYX BOOX DARWIN 3, ONYX BOOX DARWIN 4, ONYX BOOX CAESAR 2, ONYX BOOX VASCO DA GAMA 2

**Trademark:** BOOX

**FCC Classification:** Digital Transmission System (DTS)

**FCC Rule Part(s):** Part 15.247

**Test Procedure(s):** ANSI C63.10-2013, KDB 558074 D01v03r05, KDB 662911 D01v02r01

**Test Date:** March 03 ~ 18, 2017

Reviewed By : Robin Wu  
( Robin Wu )

Approved By : Marlin Chen  
( Marlin Chen )



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 558074 D01v03r05. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

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## Revision History

| Report No.   | Version | Description    | Issue Date | Note  |
|--------------|---------|----------------|------------|-------|
| 1703RSU00501 | Rev. 01 | Initial report | 03-24-2017 | Valid |
|              |         |                |            |       |

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## §2.1033 General Information

|                                |                                                                                                                                                                                                                                                                      |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant:</b>              | ONYX INTERNATIONAL INC.                                                                                                                                                                                                                                              |
| <b>Applicant Address:</b>      | Room 102, 3rd Floor, No. 38 HongLou Road, LiWan District, GuangZhou, China                                                                                                                                                                                           |
| <b>Manufacturer:</b>           | ONYX INTERNATIONAL INC.                                                                                                                                                                                                                                              |
| <b>Manufacturer Address:</b>   | Room 102, 3rd Floor, No. 38 HongLou Road, LiWan District, GuangZhou, China                                                                                                                                                                                           |
| <b>Test Site:</b>              | MRT Technology (Suzhou) Co., Ltd                                                                                                                                                                                                                                     |
| <b>Test Site Address:</b>      | D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China                                                                                                                                                                                   |
| <b>MRT Registration No.:</b>   | 809388                                                                                                                                                                                                                                                               |
| <b>FCC Rule Part(s):</b>       | Part 15.247                                                                                                                                                                                                                                                          |
| <b>Model No.:</b>              | C67, C67ML, C67HD, C67S, C67SML, C67 Touch, C67ML Carta, C67ML Carta2, ONYX BOOX C67ML MAGELLAN 2, ONYX BOOX C67M ERMAK 2, ONYX BOOX C67SML COLUMBUS, Tagus Lux, Tagus Tactil, ONYX BOOX DARWIN 3, ONYX BOOX DARWIN 4, ONYX BOOX CAESAR 2, ONYX BOOX VASCO DA GAMA 2 |
| <b>FCC ID:</b>                 | XR3-C67                                                                                                                                                                                                                                                              |
| <b>Test Device Serial No.:</b> | N/A <input type="checkbox"/> Production <input checked="" type="checkbox"/> Pre-Production <input type="checkbox"/> Engineering                                                                                                                                      |

### Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 809388) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-4179, G-814, C-4664, T-2206) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, EU and TELEC Rules.



## 1. INTRODUCTION

### 1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

### 1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.



## 2. PRODUCT INFORMATION

### 2.1. Equipment Description

|                      |                                                                                                                                                                                                                                                                      |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | E-reader                                                                                                                                                                                                                                                             |
| Model No.            | C67, C67ML, C67HD, C67S, C67SML, C67 Touch, C67ML Carta, C67ML Carta2, ONYX BOOX C67ML MAGELLAN 2, ONYX BOOX C67M ERMAK 2, ONYX BOOX C67SML COLUMBUS, Tagus Lux, Tagus Tactil, ONYX BOOX DARWIN 3, ONYX BOOX DARWIN 4, ONYX BOOX CAESAR 2, ONYX BOOX VASCO DA GAMA 2 |
| Brand Name:          | BOOX                                                                                                                                                                                                                                                                 |
| Frequency Range      | 802.11b/g/n-HT20: 2412 ~ 2462 MHz<br>802.11n-HT40: 2422 ~ 2452 MHz                                                                                                                                                                                                   |
| Maximum Output Power | 802.11b: 11.48dBm<br>802.11g: 17.83dBm<br>802.11n-HT20: 17.75dBm<br>802.11n-HT40: 17.88dBm                                                                                                                                                                           |
| Type of Modulation   | 802.11b: DSSS<br>802.11g/n: OFDM                                                                                                                                                                                                                                     |
| Antenna Gain         | 1.0dBi                                                                                                                                                                                                                                                               |

Note: Differences between all models are for different marketing requirement.

### 2.2. Working Frequencies

#### Channel List for 802.11b/g/n-HT20

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 01      | 2412 MHz  | 02      | 2417 MHz  | 03      | 2422 MHz  |
| 04      | 2427 MHz  | 05      | 2432 MHz  | 06      | 2437 MHz  |
| 07      | 2442 MHz  | 08      | 2447 MHz  | 09      | 2452 MHz  |
| 10      | 2457 MHz  | 11      | 2462 MHz  | --      | --        |

#### Channel List for 802.11n-HT40

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 03      | 2422 MHz  | 04      | 2427 MHz  | 05      | 2432 MHz  |
| 06      | 2437 MHz  | 07      | 2442 MHz  | 08      | 2447 MHz  |
| 09      | 2452 MHz  | --      | --        | --      | --        |

### 2.3. Test Mode

|           |                                  |
|-----------|----------------------------------|
| Test Mode | Mode 1: Transmit by 802.11b      |
|           | Mode 2: Transmit by 802.11g      |
|           | Mode 3: Transmit by 802.11n-HT20 |
|           | Mode 4: Transmit by 802.11n-HT40 |

## **2.4. Test Software**

The test utility software used during testing was “REALTEK 11n 8188EUS USB WLAN NIC Massproduction Kit”.

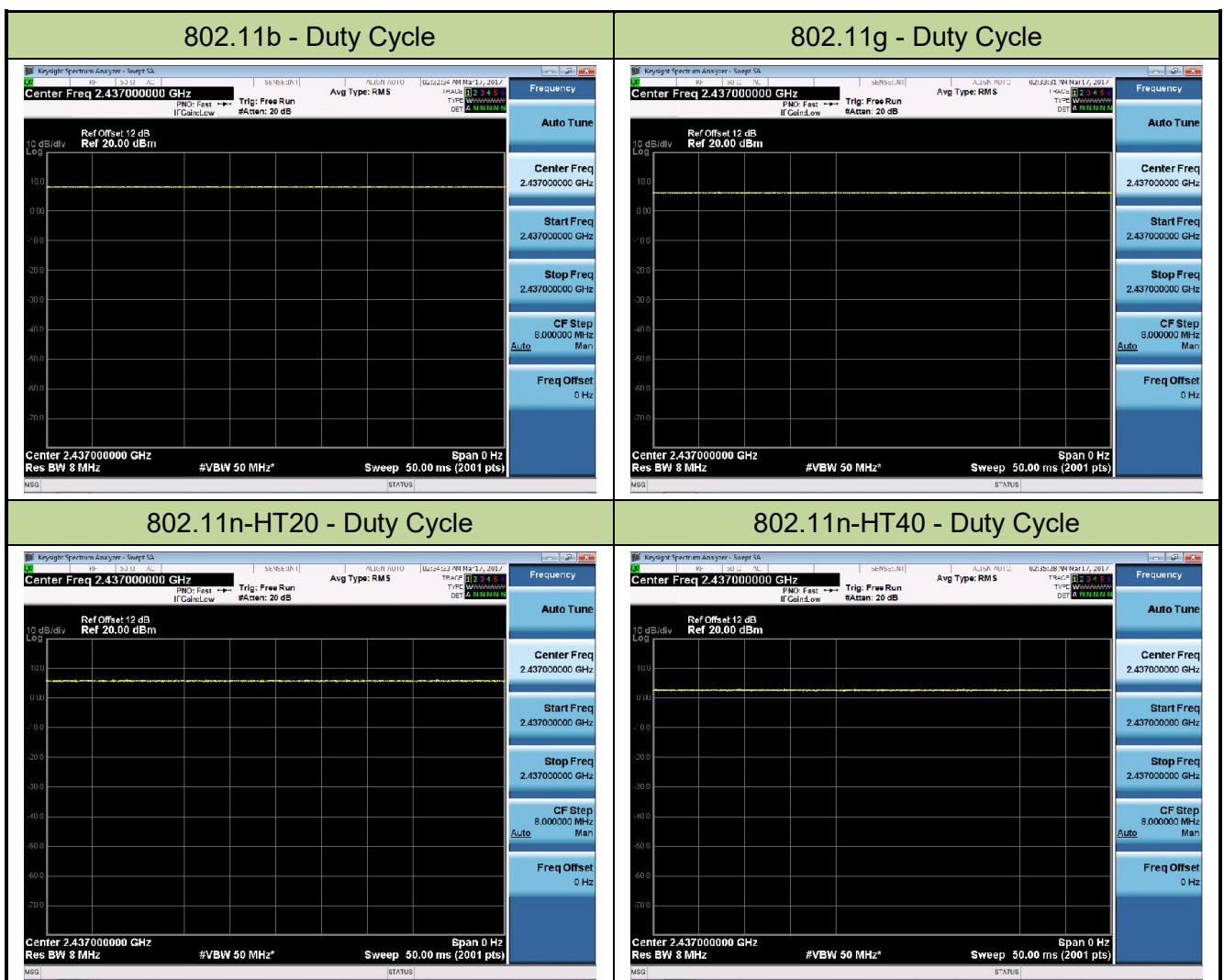
## 2.5. Device Capabilities

This device contains the following capabilities:

2.4GHz WLAN (DTS).

**Note:** 2.4GHz WLAN (DTS) operation is possible in 20MHz, and 40MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section 6.0 b) of KDB 558074 D01v03r05. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

| Test Mode    | Duty Cycle |
|--------------|------------|
| 802.11b      | 100.00%    |
| 802.11g      | 100.00%    |
| 802.11n-HT20 | 100.00%    |
| 802.11n-HT40 | 100.00%    |



## **2.6. Test Configuration**

The **E-reader FCC ID: XR3-C67** was tested per the guidance of KDB 558074 D01v03r05. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

## **2.7. EMI Suppression Device(s)/Modifications**

No EMI suppression device(s) were added and/or no modifications were made during testing.

## **2.8. Labeling Requirements**

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

### 3. DESCRIPTION of TEST

#### 3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 558074 D01v03r05 were used in the measurement of the **E-reader FCC ID: XR3-C67**.

**Deviation from measurement procedure.....None**

#### 3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50 $\Omega$ /50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

Line conducted emissions test results are shown in Section 7.8.

### 3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

## 4. ANTENNA REQUIREMENTS

### **Excerpt from §15.203 of the FCC Rules/Regulations:**

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 shall be considered sufficient to comply with the provisions of this section.”

- The antenna of the Radio Controller is **permanently attached**.
- There are no provisions for connection to an external antenna.

### **Conclusion:**

The **E-reader FCC ID: XR3-C67** unit complies with the requirement of §15.203.

## 5. TEST EQUIPMENT CALIBRATION DATE

### Conducted Emissions - SR2

| Instrument                 | Manufacturer | Type No.    | Serial No. | Cali. Interval | Cali. Due Date |
|----------------------------|--------------|-------------|------------|----------------|----------------|
| EMI Test Receiver          | R&S          | ESR7        | 102030     | 1 year         | 2017/05/08     |
| Two-Line V-Network         | R&S          | ENV216      | 101683     | 1 year         | 2017/06/21     |
| Two-Line V-Network         | R&S          | ENV216      | 101684     | 1 year         | 2017/06/21     |
| Temperature/Humidity Meter | Yuhuaze      | HTC-2       | N/A        | 1 year         | 2017/12/22     |
| Shielding Anechoic Chamber | Mikebang     | Chamber-SR2 | N/A        | 1 year         | 2017/05/10     |

### Radiated Disturbance - AC2

| Instrument                       | Manufacturer | Type No.    | Serial No. | Cali. Interval | Cali. Due Date |
|----------------------------------|--------------|-------------|------------|----------------|----------------|
| MXE EMI Receiver                 | Agilent      | N9038A      | MY51210182 | 1 year         | 2017/08/03     |
| Loop Antenna                     | Schwarzbeck  | FMZB1519    | 100982     | 1 year         | 2017/12/21     |
| TRILOG Antenna                   | Schwarzbeck  | VULB9162    | 9162-047   | 1 year         | 2017/10/22     |
| Broad-Band Horn Antenna          | Schwarzbeck  | BBHA9120D   | 1457       | 1 year         | 2017/11/19     |
| Broadband Coaxial Preamplifier   | Schwarzbeck  | BBV 9718    | MY52090106 | 1 year         | 2017/12/10     |
| Broadband Horn Antenna           | Schwarzbeck  | BBHA9170    | BBHA917054 | 1 year         | 2017/04/16     |
| Digital Thermometer & Hygrometer | Minggao      | ETH529      | N/A        | 1 year         | 2017/11/30     |
| Anechoic Chamber                 | RIKEN        | Chamber-AC2 | N/A        | 1 year         | 2017/05/10     |

### Conducted Test Equipment - TR3

| Instrument                 | Manufacturer | Type No. | Serial No. | Cali. Interval | Cali. Due Date |
|----------------------------|--------------|----------|------------|----------------|----------------|
| Spectrum Analyzer          | Agilent      | N9020A   | MY52090106 | 1 year         | 2017/05/08     |
| USB Wideband Power Sensor  | Boonton      | 55006    | 8911       | 1 year         | 2017/05/08     |
| Temperature/Humidity Meter | Yuhuaze      | HTC-2    | N/A        | 1 year         | 2017/12/22     |

| Software | Version | Function          |
|----------|---------|-------------------|
| e3       | V8.3.5  | EMI Test Software |

## 6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

|                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------|
| AC Conducted Emission Measurement - SR2                                                                                                          |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_c(y)$ ):<br>150kHz~30MHz: $\pm 3.46\text{dB}$                                     |
| Radiated Emission Measurement - AC2                                                                                                              |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_c(y)$ ):<br>9kHz ~ 1GHz: $\pm 4.18\text{dB}$<br>1GHz ~ 25GHz: $\pm 4.76\text{dB}$ |

## 7. TEST RESULT

### 7.1. Summary

**Product Name:** E-reader  
**FCC ID:** XR3-C67  
**FCC Classification:** Digital Transmission System (DTS)  
**Data Rate(s) Tested:** 1Mbps ~ 11Mbps (b);  
6Mbps ~ 54Mbps (g);  
6.5/7.2Mbps ~ 65.0/72.2Mbps (n-HT20);  
13.5/15.0Mbps ~ 135.0/150.0Mbps (n-HT40)

| FCC Part Section(s) | Test Description                                                              | Test Limit                                                                     | Test Condition | Test Result | Reference         |
|---------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------|-------------|-------------------|
| 15.247(a)(2)        | 6dB Bandwidth                                                                 | $\geq 500\text{kHz}$                                                           | Conducted      | Pass        | Section 7.2       |
| 15.247(b)(3)        | Output Power                                                                  | $\leq 30.00\text{dBm}$                                                         |                | Pass        | Section 7.3       |
| 15.247(e)           | Power Spectral Density                                                        | $\leq 8.00\text{dBm}/3\text{kHz}$                                              |                | Pass        | Section 7.4       |
| 15.247(d)           | Band Edge / Out-of-Band Emissions                                             | $\leq 20\text{dBc(Average)}$                                                   |                | Pass        | Section 7.5       |
| 15.205<br>15.209    | General Field Strength Limits (Restricted Bands and Radiated Emission Limits) | Emissions in restricted bands must meet the radiated limits detailed in 15.209 | Radiated       | Pass        | Section 7.6 & 7.7 |
| 15.207              | AC Conducted Emissions<br>150kHz - 30MHz                                      | < FCC 15.207 limits                                                            | Line Conducted | Pass        | Section 7.8       |

#### Notes:

- 1) All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.

## 7.2. 6dB Bandwidth Measurement

### 7.2.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

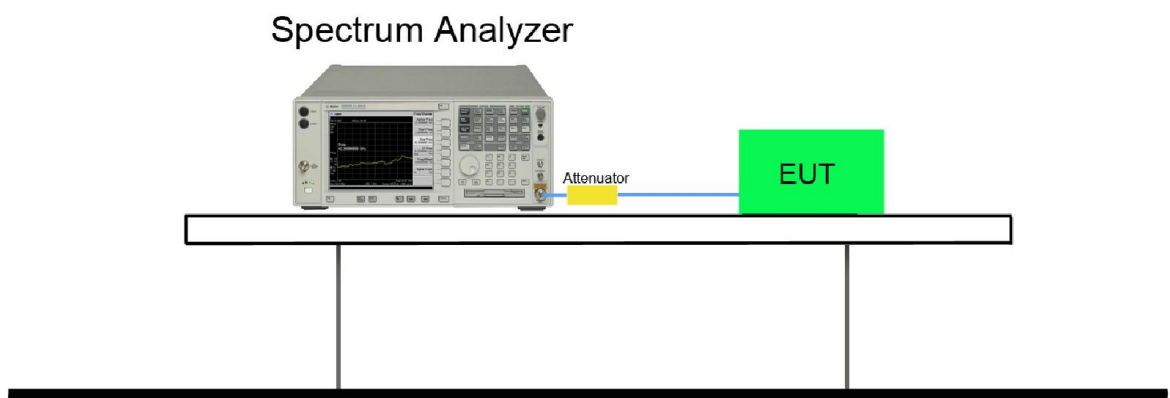
### 7.2.2. Test Procedure used

KDB 558074 D01v03r05 - Section 8.2 Option 2

### 7.2.3. Test Setting

1. The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to  $X = 6$ . The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. Set RBW = 100 kHz
3.  $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace was allowed to stabilize

### 7.2.4. Test Setup



### 7.2.5. Test Result

| Test Mode    | Data Rate (Mbps) | Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (MHz) | Result |
|--------------|------------------|-------------|-----------------|---------------------|-------------|--------|
| 802.11b      | 1                | 01          | 2412            | 10.09               | $\geq 0.5$  | Pass   |
| 802.11b      | 1                | 06          | 2437            | 10.09               | $\geq 0.5$  | Pass   |
| 802.11b      | 1                | 11          | 2462            | 10.10               | $\geq 0.5$  | Pass   |
| 802.11g      | 6                | 01          | 2412            | 16.60               | $\geq 0.5$  | Pass   |
| 802.11g      | 6                | 06          | 2437            | 16.60               | $\geq 0.5$  | Pass   |
| 802.11g      | 6                | 11          | 2462            | 16.60               | $\geq 0.5$  | Pass   |
| 802.11n-HT20 | 13               | 01          | 2412            | 17.84               | $\geq 0.5$  | Pass   |
| 802.11n-HT20 | 13               | 06          | 2437            | 17.83               | $\geq 0.5$  | Pass   |
| 802.11n-HT20 | 13               | 11          | 2462            | 17.83               | $\geq 0.5$  | Pass   |
| 802.11n-HT40 | 27               | 03          | 2422            | 36.43               | $\geq 0.5$  | Pass   |
| 802.11n-HT40 | 27               | 06          | 2437            | 36.41               | $\geq 0.5$  | Pass   |
| 802.11n-HT40 | 27               | 09          | 2452            | 36.41               | $\geq 0.5$  | Pass   |

## 802.11b 6dB Bandwidth

### Channel 01 (2412MHz)



### Channel 06 (2437MHz)



### Channel 11 (2462MHz)

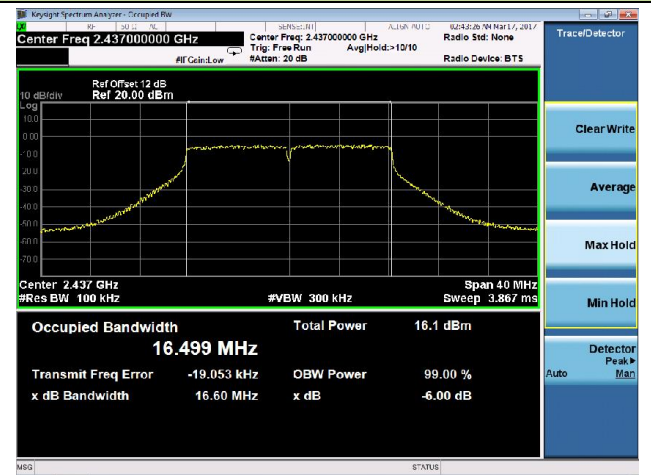


## 802.11g 6dB Bandwidth

### Channel 01 (2412MHz)



### Channel 06 (2437MHz)



### Channel 11 (2462MHz)

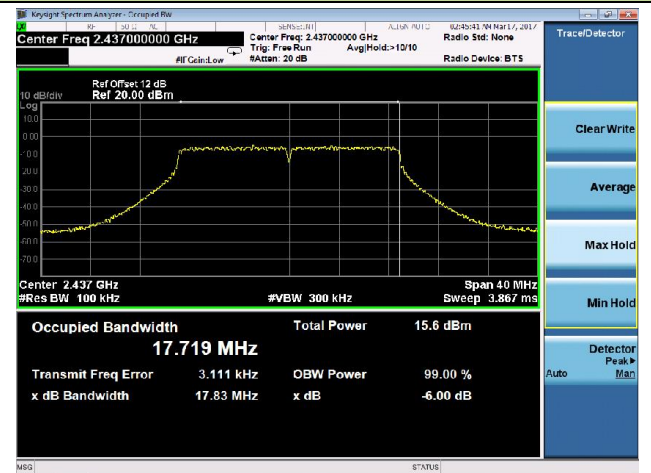


## 802.11n-HT20 6dB Bandwidth

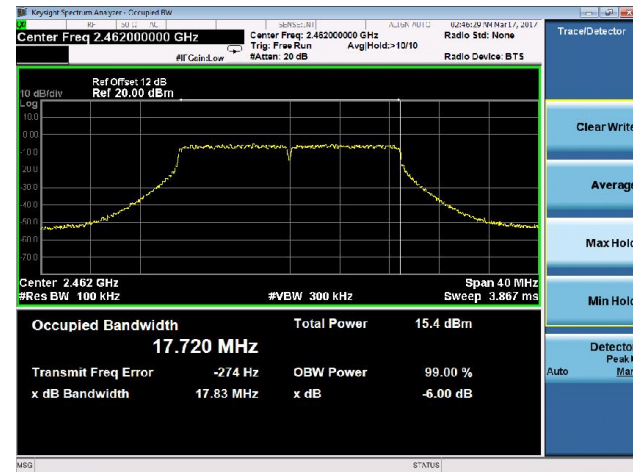
### Channel 01 (2412MHz)



### Channel 06 (2437MHz)



### Channel 11 (2462MHz)

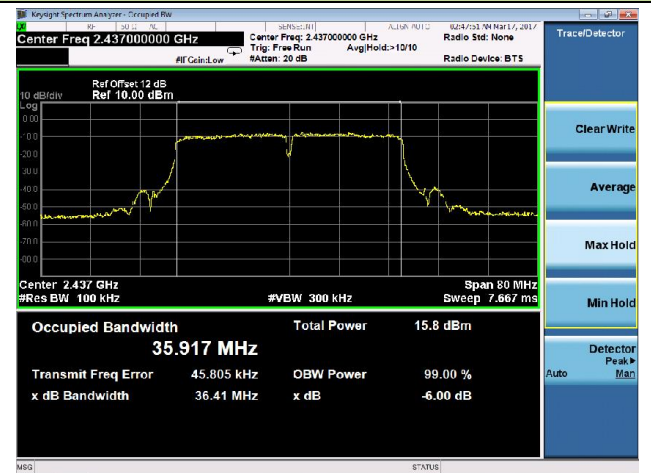


## 802.11n-HT40 6dB Bandwidth

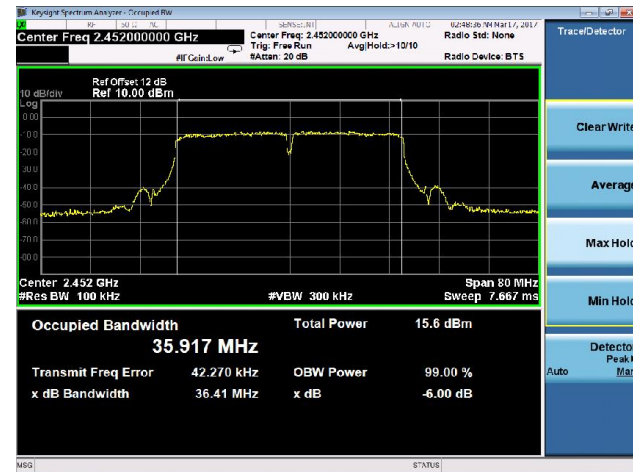
### Channel 03 (2422MHz)



### Channel 06 (2437MHz)



### Channel 09 (2452MHz)



### 7.3. Output Power Measurement

#### 7.3.1. Test Limit

The maximum out power shall be less 1 Watt (30dBm).

#### 7.3.2. Test Procedure Used

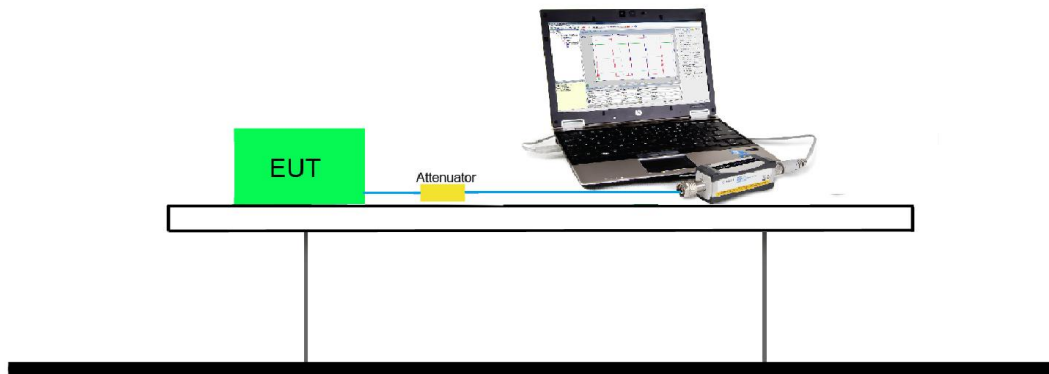
KDB 558074 D01v03r05 - Section 9.1.2 PKPM1 Peak Power Method (for signals with BW  $\leq$  50MHz)

#### 7.3.3. Test Setting

##### **Method PKPM1 (Peak Power Measurement of Signals with DTS BW $\leq$ 50MHz)**

Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

#### 7.3.4. Test Setup



### 7.3.5. Test Result of Output Power

Power output test was verified over all data rates of each mode shown as below, and then choose the maximum power output (yellow marker) for final test of each channel.

| MCS Index<br>for 802.11n | N <sub>TX</sub> | Data Rate (Mbps) |         |                 |          |                 |          |
|--------------------------|-----------------|------------------|---------|-----------------|----------|-----------------|----------|
|                          |                 | 802.11b          | 802.11g | 20MHz Bandwidth |          | 40MHz Bandwidth |          |
|                          |                 |                  |         | 800ns GI        | 400ns GI | 800ns GI        | 400ns GI |
| 0                        | 1               | 1                | 6       | 6.5             | 7.2      | 13.5            | 15.0     |
| 1                        | 1               | 2                | 9       | 13.0            | 14.4     | 27.0            | 30.0     |
| 2                        | 1               | 5.5              | 12      | 19.5            | 21.7     | 40.5            | 45.0     |
| 3                        | 1               | 11               | 18      | 26.0            | 28.9     | 54.0            | 60.0     |
| 4                        | 1               | --               | 24      | 39.0            | 43.3     | 81.0            | 90.0     |
| 5                        | 1               | --               | 36      | 52.0            | 57.8     | 108.0           | 120.0    |
| 6                        | 1               | --               | 48      | 58.5            | 65.0     | 121.5           | 135.0    |
| 7                        | 1               | --               | 54      | 65.0            | 72.2     | 135.0           | 150.0    |

**Output power at various data rates for Ant 0:**

| Test Mode | Bandwidth (MHz) | Channel No. | Frequency (MHz) | Data Rate (Mbps) | Peak Power (dBm) |
|-----------|-----------------|-------------|-----------------|------------------|------------------|
| 802.11b   | 20              | 6           | 2437            | 1                | 11.41            |
|           |                 |             |                 | 5.5              | 11.23            |
|           |                 |             |                 | 11               | 11.07            |
| 802.11g   | 20              | 6           | 2437            | 6                | 17.66            |
|           |                 |             |                 | 24               | 17.43            |
|           |                 |             |                 | 54               | 17.12            |
| 802.11n   | 20              | 6           | 2437            | 6.5              | 17.75            |
|           |                 |             |                 | 7.2              | 17.70            |
|           |                 |             |                 | 39.0             | 17.53            |
|           |                 |             |                 | 43.3             | 17.50            |
|           |                 |             |                 | 65.0             | 17.30            |
|           |                 |             |                 | 72.2             | 17.26            |
| 802.11n   | 40              | 6           | 2437            | 13.5             | 17.75            |
|           |                 |             |                 | 15.0             | 17.73            |
|           |                 |             |                 | 81.0             | 17.49            |
|           |                 |             |                 | 90.0             | 17.43            |
|           |                 |             |                 | 135.0            | 17.24            |
|           |                 |             |                 | 150.0            | 17.21            |

### Test Result of Peak Output Power

| Test Mode    | Data Rate (Mbps) | Channel No. | Frequency (MHz) | Peak Output Power (dBm) | Limit (dBm) | Result |
|--------------|------------------|-------------|-----------------|-------------------------|-------------|--------|
| 802.11b      | 1                | 01          | 2412            | 11.48                   | ≤ 30        | Pass   |
| 802.11b      | 1                | 06          | 2437            | 11.41                   | ≤ 30        | Pass   |
| 802.11b      | 1                | 11          | 2462            | 11.21                   | ≤ 30        | Pass   |
| 802.11g      | 6                | 01          | 2412            | 17.63                   | ≤ 30        | Pass   |
| 802.11g      | 6                | 06          | 2437            | 17.66                   | ≤ 30        | Pass   |
| 802.11g      | 6                | 11          | 2462            | 17.83                   | ≤ 30        | Pass   |
| 802.11n-HT20 | 6.5              | 01          | 2412            | 17.17                   | ≤ 30        | Pass   |
| 802.11n-HT20 | 6.5              | 06          | 2437            | 17.75                   | ≤ 30        | Pass   |
| 802.11n-HT20 | 6.5              | 11          | 2462            | 17.27                   | ≤ 30        | Pass   |
| 802.11n-HT40 | 13.5             | 03          | 2422            | 17.37                   | ≤ 30        | Pass   |
| 802.11n-HT40 | 13.5             | 06          | 2437            | 17.75                   | ≤ 30        | Pass   |
| 802.11n-HT40 | 13.5             | 09          | 2452            | 17.88                   | ≤ 30        | Pass   |

### Test Result of Average Output Power for Report Only

| Test Mode    | Data Rate (Mbps) | Channel No. | Frequency (MHz) | Average Output Power (dBm) | Limit (dBm) | Result |
|--------------|------------------|-------------|-----------------|----------------------------|-------------|--------|
| 802.11b      | 1                | 01          | 2412            | 8.91                       | ≤ 30        | Pass   |
| 802.11b      | 1                | 06          | 2437            | 8.87                       | ≤ 30        | Pass   |
| 802.11b      | 1                | 11          | 2462            | 8.82                       | ≤ 30        | Pass   |
| 802.11g      | 6                | 01          | 2412            | 8.70                       | ≤ 30        | Pass   |
| 802.11g      | 6                | 06          | 2437            | 8.73                       | ≤ 30        | Pass   |
| 802.11g      | 6                | 11          | 2462            | 8.97                       | ≤ 30        | Pass   |
| 802.11n-HT20 | 6.5              | 01          | 2412            | 8.65                       | ≤ 30        | Pass   |
| 802.11n-HT20 | 6.5              | 06          | 2437            | 8.89                       | ≤ 30        | Pass   |
| 802.11n-HT20 | 6.5              | 11          | 2462            | 8.73                       | ≤ 30        | Pass   |
| 802.11n-HT40 | 13.5             | 03          | 2422            | 8.81                       | ≤ 30        | Pass   |
| 802.11n-HT40 | 13.5             | 06          | 2437            | 8.85                       | ≤ 30        | Pass   |
| 802.11n-HT40 | 13.5             | 09          | 2452            | 8.82                       | ≤ 30        | Pass   |

## 7.4. Power Spectral Density Measurement

### 7.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

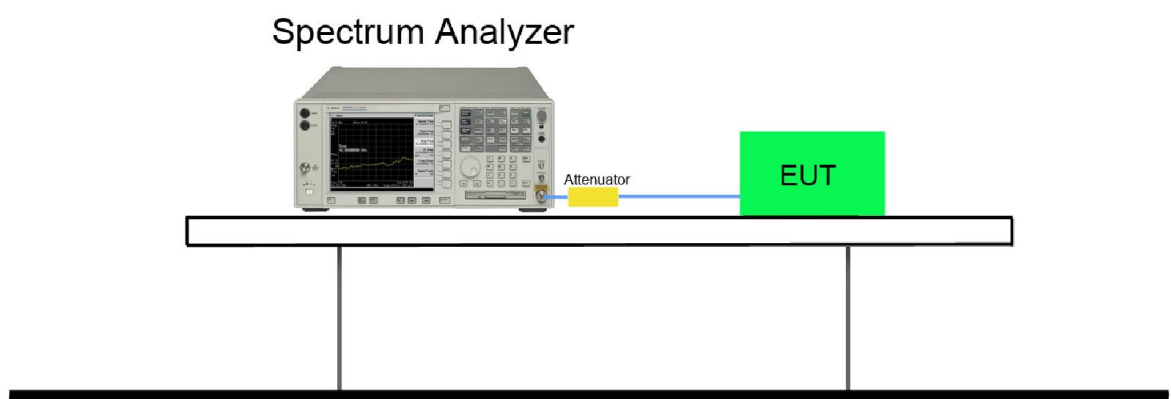
### 7.4.2. Test Procedure Used

KDB 558074 D01v03r05 - Section 10.2 Method PKPSD

### 7.4.3. Test Setting

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 3kHz
4. VBW = 10kHz
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

### 7.4.4. Test Setup



#### 7.4.5. Test Result

| Test Mode    | Data Rate (Mbps) | Channel No. | Frequency (MHz) | Measured PSD (dBm / 3kHz) | Limit (dBm / 3kHz) | Result |
|--------------|------------------|-------------|-----------------|---------------------------|--------------------|--------|
| 802.11b      | 1                | 01          | 2412            | -20.39                    | $\leq 8$           | Pass   |
| 802.11b      | 1                | 06          | 2437            | -20.41                    | $\leq 8$           | Pass   |
| 802.11b      | 1                | 11          | 2462            | -21.14                    | $\leq 8$           | Pass   |
| 802.11g      | 6                | 01          | 2412            | -19.77                    | $\leq 8$           | Pass   |
| 802.11g      | 6                | 06          | 2437            | -19.51                    | $\leq 8$           | Pass   |
| 802.11g      | 6                | 11          | 2462            | -19.96                    | $\leq 8$           | Pass   |
| 802.11n-HT20 | 6.5              | 01          | 2412            | -19.61                    | $\leq 8$           | Pass   |
| 802.11n-HT20 | 6.5              | 06          | 2437            | -19.30                    | $\leq 8$           | Pass   |
| 802.11n-HT20 | 6.5              | 11          | 2462            | -19.48                    | $\leq 8$           | Pass   |
| 802.11n-HT40 | 13.5             | 03          | 2422            | -19.06                    | $\leq 8$           | Pass   |
| 802.11n-HT40 | 13.5             | 06          | 2437            | -19.35                    | $\leq 8$           | Pass   |
| 802.11n-HT40 | 13.5             | 09          | 2452            | -19.00                    | $\leq 8$           | Pass   |

## 802.11b PSD

### Channel 01 (2412MHz)



### Channel 06 (2437MHz)

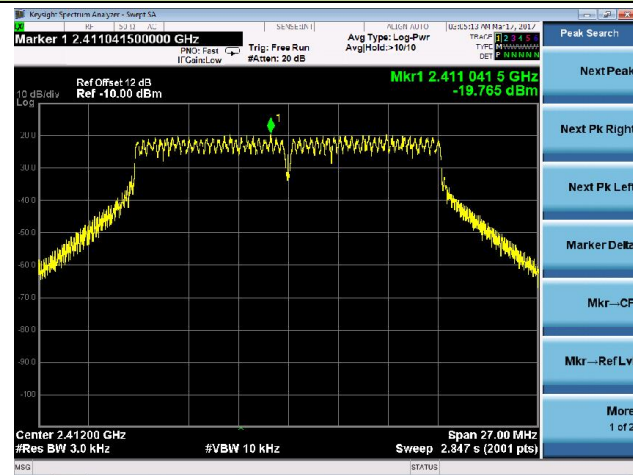


### Channel 11 (2462MHz)

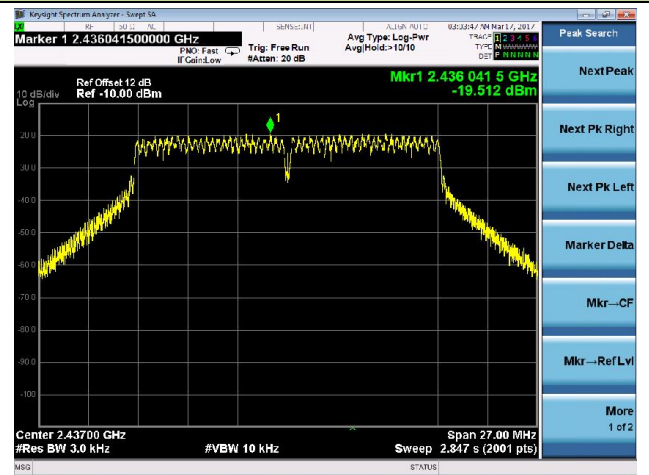


## 802.11g PSD

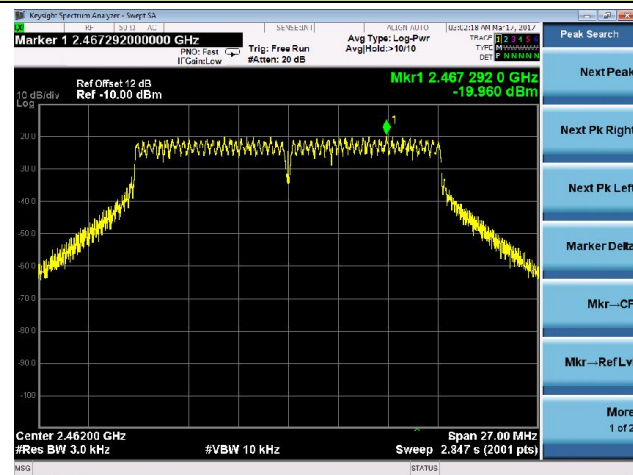
## Channel 01 (2412MHz)



## Channel 06 (2437MHz)

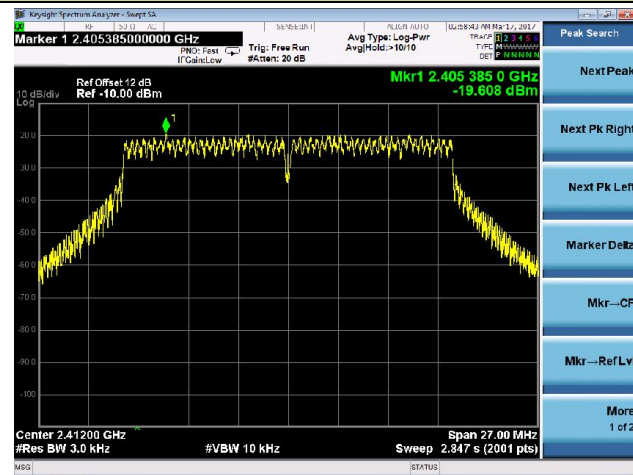


## Channel 11 (2462MHz)

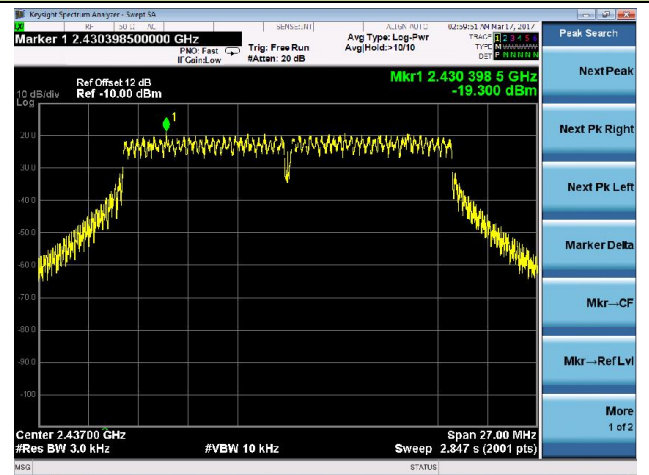


## 802.11n-HT20 PSD

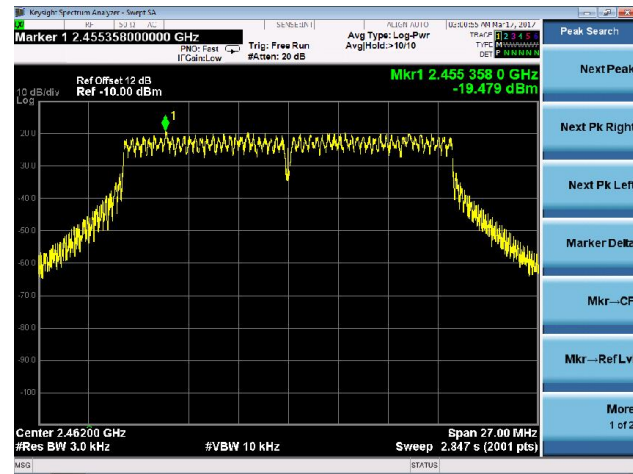
## Channel 01 (2412MHz)



## Channel 06 (2437MHz)

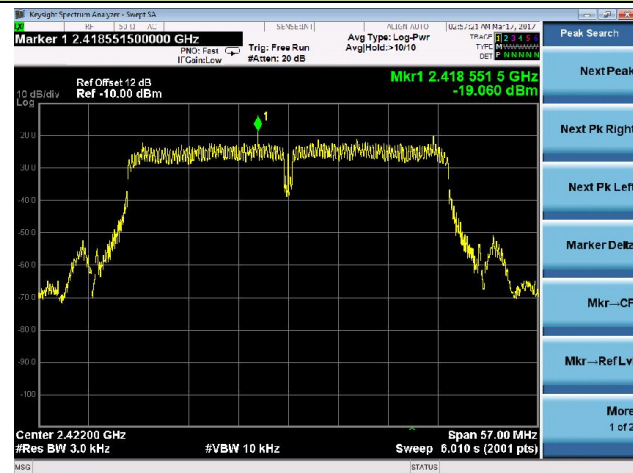


## Channel 11 (2462MHz)



## 802.11n-HT40 PSD

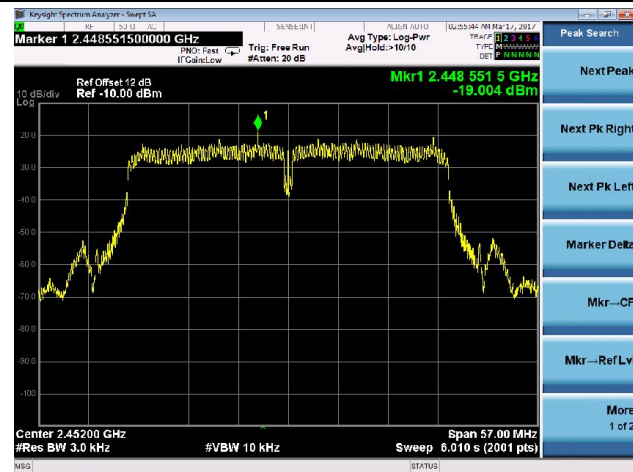
## Channel 03 (2422MHz)



## Channel 06 (2437MHz)



## Channel 09 (2452MHz)



## **7.5. Conducted Band Edge and Out-of-Band Emissions**

### **7.5.1. Test Limit**

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure.

### **7.5.2. Test Procedure Used**

KDB 558074 D01v03r05 - Section 11.2 & Section 11.3

### **7.5.3. Test Settling**

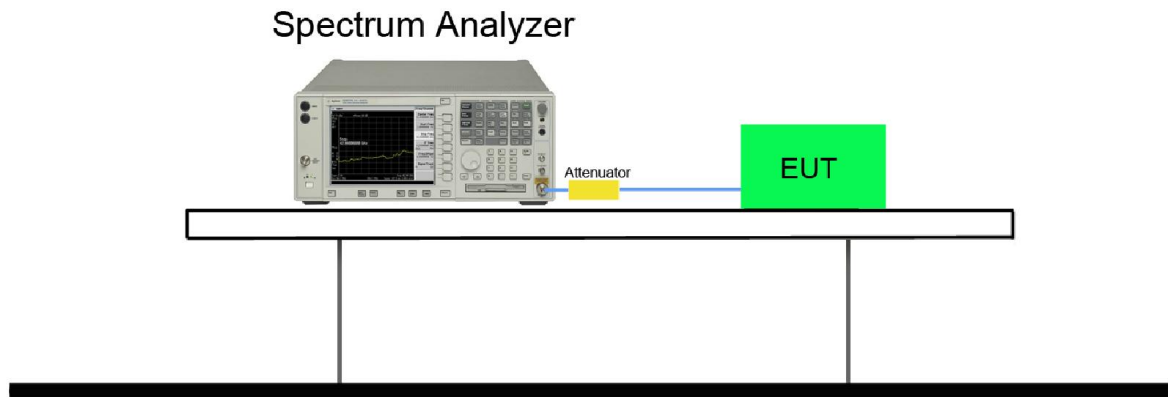
#### **1. Reference level measurement**

- (a) Set instrument center frequency to DTS channel center frequency
- (b) Set the span to  $\geq 1.5$  times the DTS bandwidth
- (c) Set the RBW = 100 kHz
- (d) Set the VBW  $\geq 3 \times$  RBW
- (e) Detector = peak
- (f) Sweep time = auto couple
- (g) Trace mode = max hold
- (h) Allow trace to fully stabilize

#### **2. Emission level measurement**

- (a) Set the center frequency and span to encompass frequency range to be measured
- (b) RBW = 100kHz
- (c) VBW = 300kHz
- (d) Detector = Peak
- (e) Trace mode = max hold
- (f) Sweep time = auto couple
- (g) The trace was allowed to stabilize

#### 7.5.4. Test Setup



### 7.5.5. Test Result

| Test Mode    | Data Rate (Mbps) | Channel No. | Frequency (MHz) | Limit | Result |
|--------------|------------------|-------------|-----------------|-------|--------|
| 802.11b      | 1                | 01          | 2412            | 20dBc | Pass   |
| 802.11b      | 1                | 06          | 2437            | 20dBc | Pass   |
| 802.11b      | 1                | 11          | 2462            | 20dBc | Pass   |
| 802.11g      | 6                | 01          | 2412            | 20dBc | Pass   |
| 802.11g      | 6                | 06          | 2437            | 20dBc | Pass   |
| 802.11g      | 6                | 11          | 2462            | 20dBc | Pass   |
| 802.11n-HT20 | 6.5              | 01          | 2412            | 20dBc | Pass   |
| 802.11n-HT20 | 6.5              | 06          | 2437            | 20dBc | Pass   |
| 802.11n-HT20 | 6.5              | 11          | 2462            | 20dBc | Pass   |
| 802.11n-HT40 | 13.5             | 03          | 2422            | 20dBc | Pass   |
| 802.11n-HT40 | 13.5             | 06          | 2437            | 20dBc | Pass   |
| 802.11n-HT40 | 13.5             | 09          | 2452            | 20dBc | Pass   |

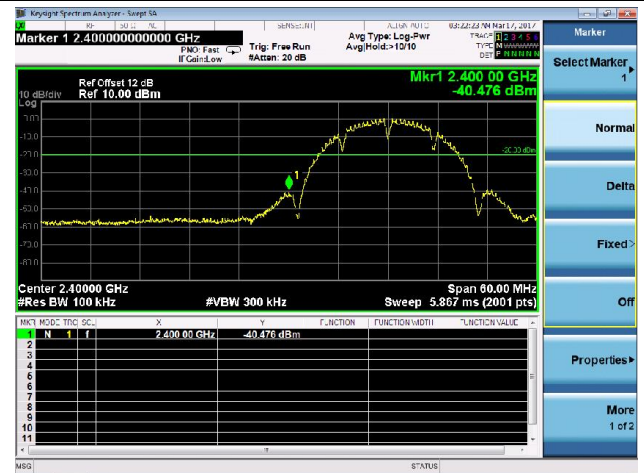
## 802.11b Out-of-Band Emissions

### Channel 01 (2412MHz)

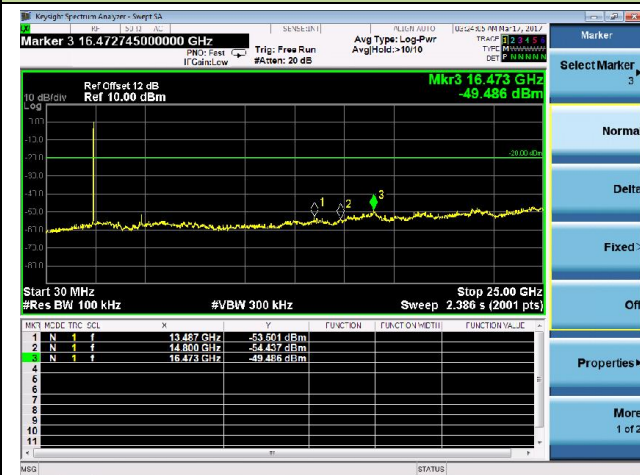
#### 100kHz PSD reference Level



#### Low Band Edge



#### Spurious Emission

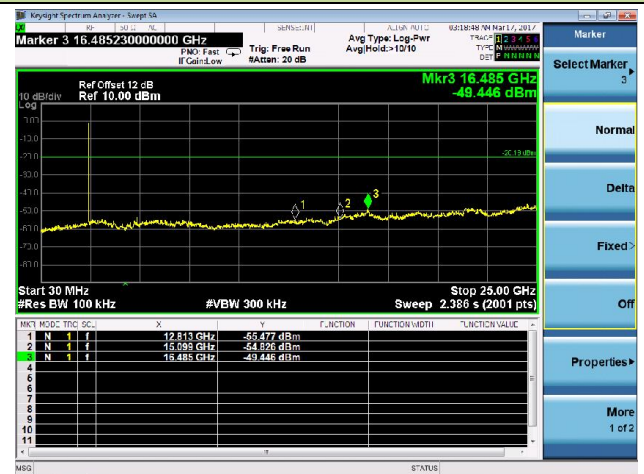


### Channel 06 (2437MHz)

#### 100kHz PSD reference Level



#### Spurious Emission

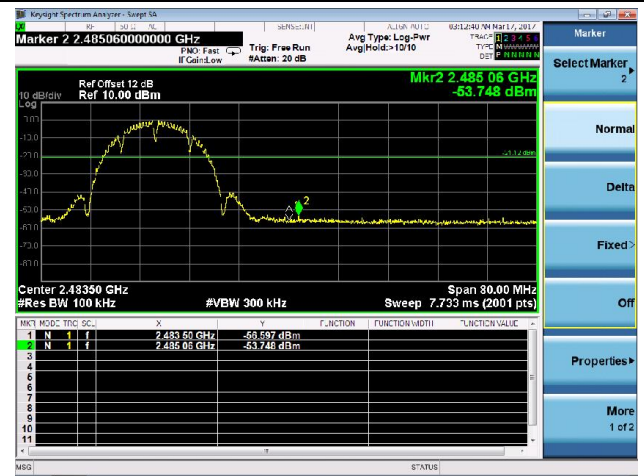


## Channel 11 (2462MHz)

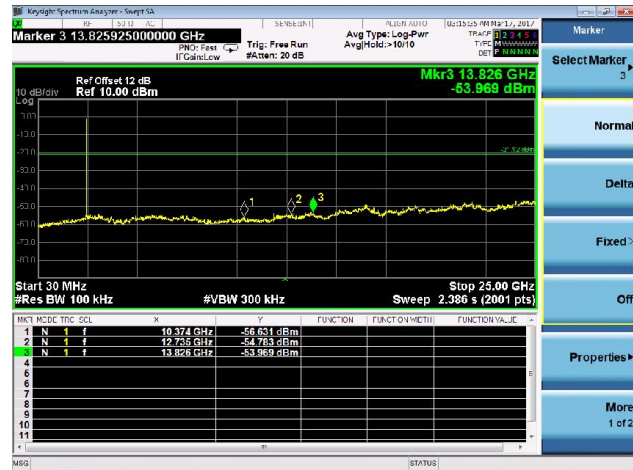
### 100kHz PSD reference Level



### High Band Edge



### Spurious Emission



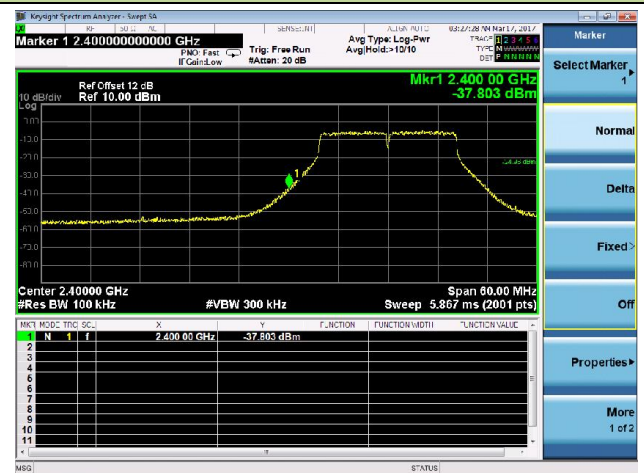
## 802.11g Out-of-Band Emissions

## Channel 01 (2412MHz)

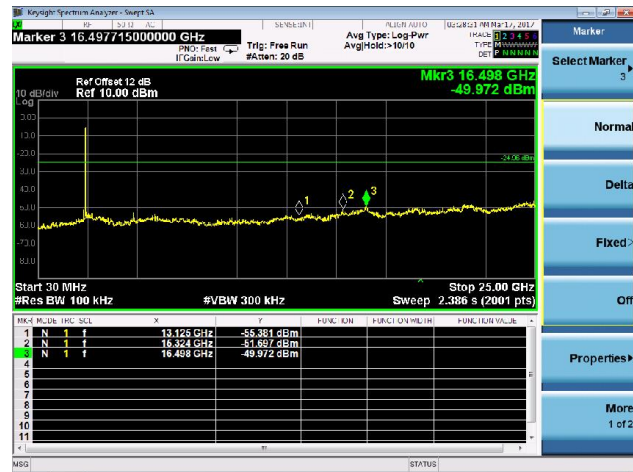
### 100kHz PSD reference Level



### Low Band Edge



## Spurious Emission



### Channel 06 (2437MHz)

#### 100kHz PSD reference Level

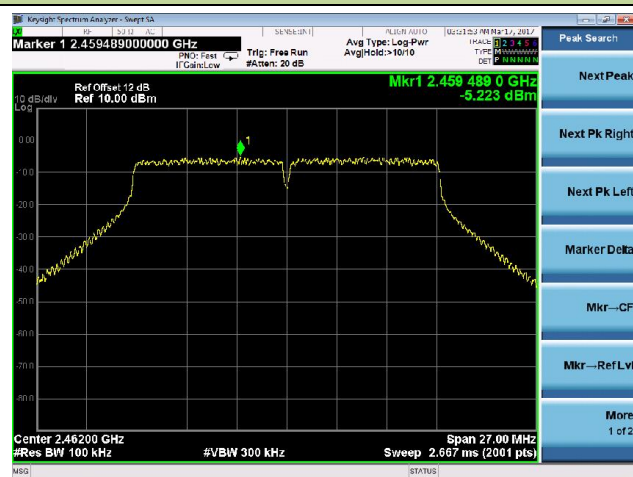


#### Spurious Emission

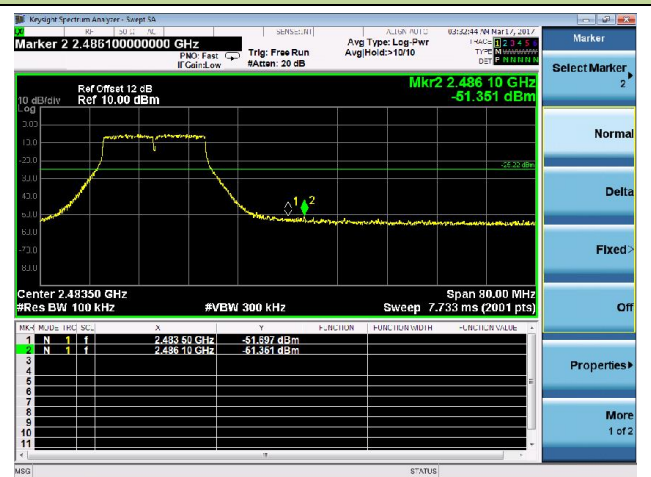


### Channel 11 (2462MHz)

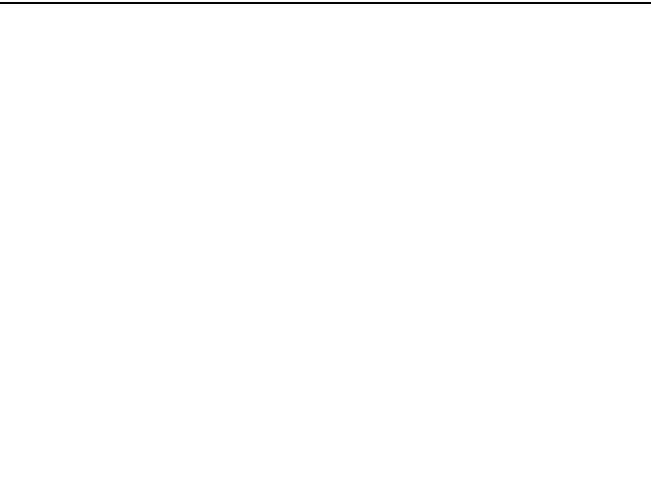
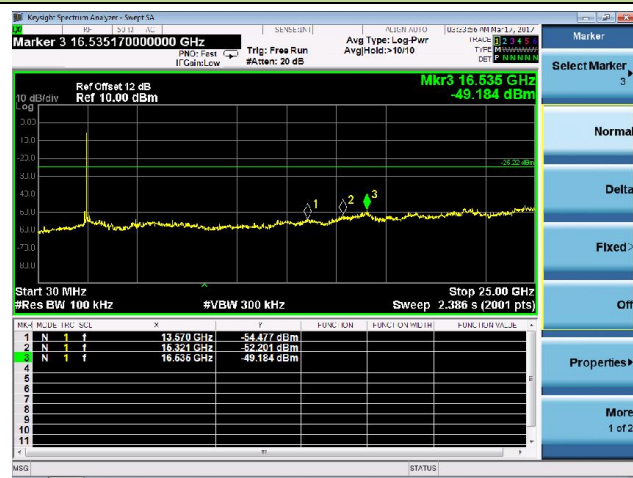
#### 100kHz PSD reference Level



#### High Band Edge



#### Spurious Emission



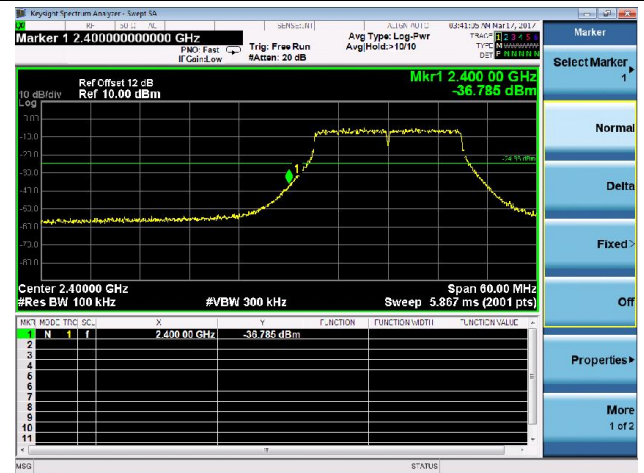
## 802.11n-HT20 Out-of-Band Emissions

### Channel 01 (2412MHz)

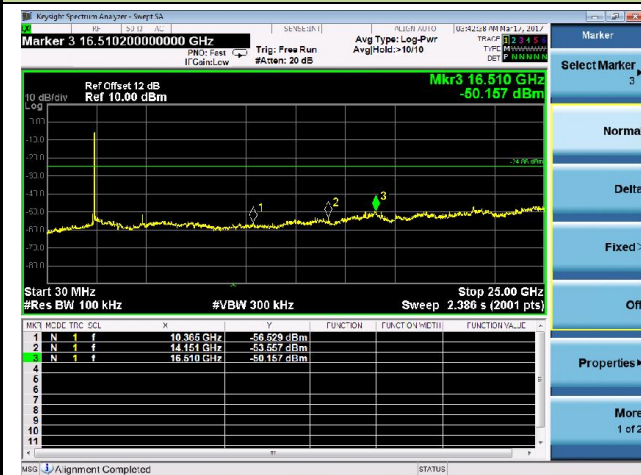
#### 100kHz PSD reference Level



#### Low Band Edge



#### Spurious Emission

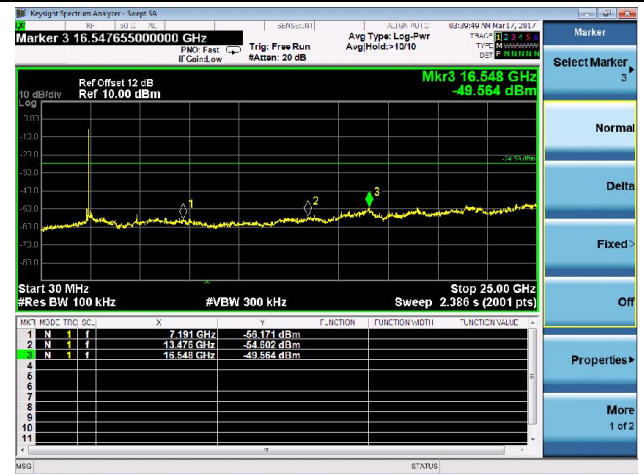


### Channel 06 (2437MHz)

#### 100kHz PSD reference Level



#### Spurious Emission

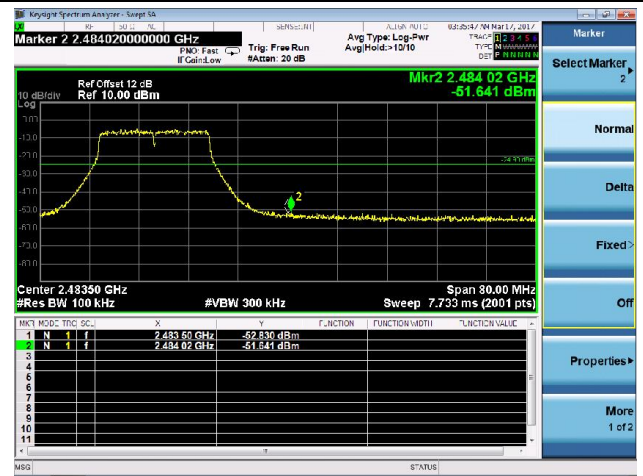


## Channel 11 (2462MHz)

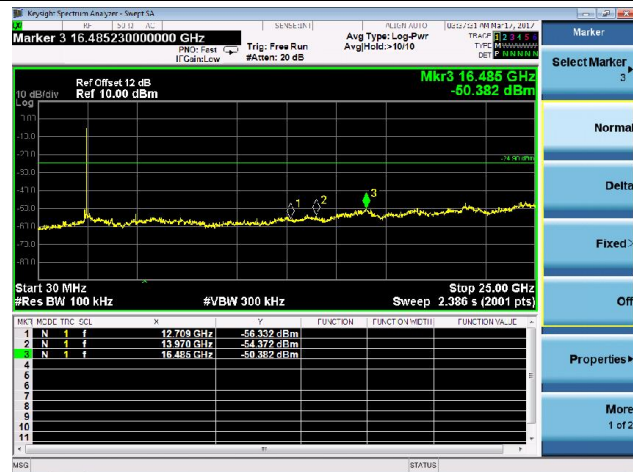
### 100kHz PSD reference Level



### High Band Edge



### Spurious Emission



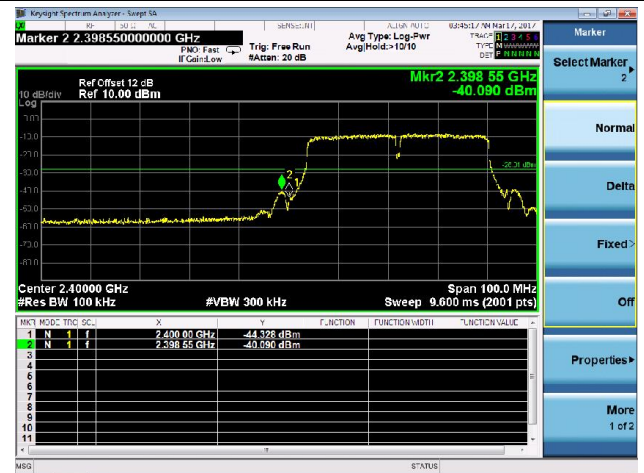
## 802.11n-HT40 Out-of-Band Emissions

### Channel 03 (2422MHz)

#### 100kHz PSD reference Level



#### Low Band Edge



#### Spurious Emission

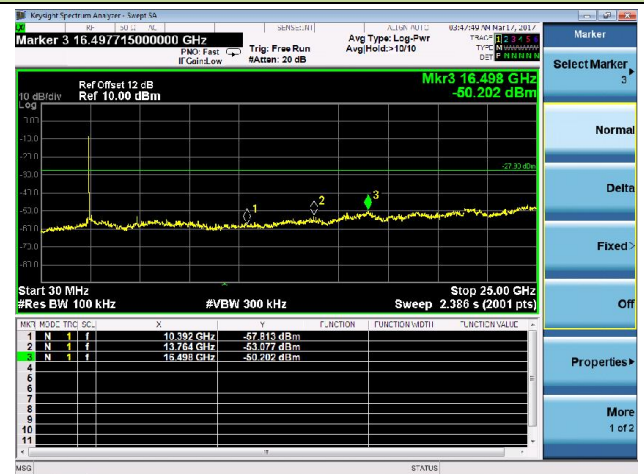


### Channel 06 (2437MHz)

#### 100kHz PSD reference Level



#### Spurious Emission



## Channel 09 (2452MHz)

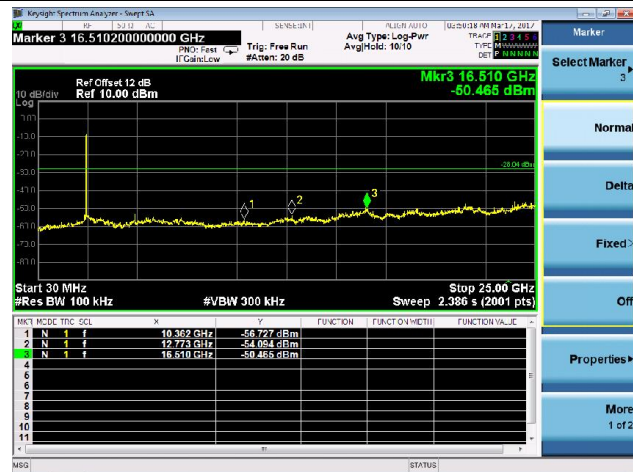
### 100kHz PSD reference Level



### High Band Edge



### Spurious Emission



## 7.6. Radiated Spurious Emission Measurement

### 7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

| FCC Part 15 Subpart C Paragraph 15.209 |                      |                            |
|----------------------------------------|----------------------|----------------------------|
| Frequency [MHz]                        | Field Strength [V/m] | Measured Distance [Meters] |
| 0.009 - 0.490                          | 2400/F (kHz)         | 300                        |
| 0.490 - 1.705                          | 24000/F (kHz)        | 30                         |
| 1.705 - 30                             | 30                   | 30                         |
| 30 - 88                                | 100                  | 3                          |
| 88 - 216                               | 150                  | 3                          |
| 216 - 960                              | 200                  | 3                          |
| Above 960                              | 500                  | 3                          |

### 7.6.2. Test Procedure Used

KDB 558074 D01v03r05 - Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v03r05 - Section 12.2.4 (peak power measurements)

KDB 558074 D01v03r05 - Section 12.2.5 (average power measurements)

### 7.6.3. Test Setting

#### Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3MHz
4. Detector = peak

5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

**Table 1 - RBW as a function of frequency**

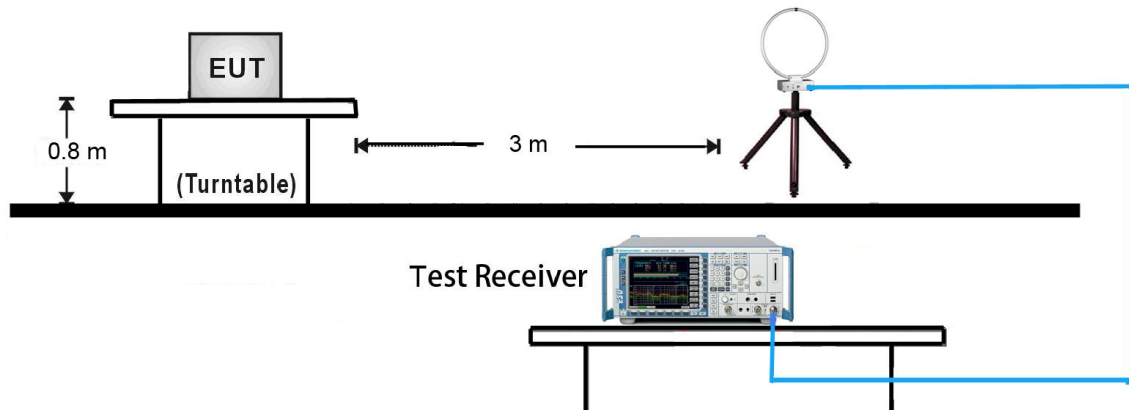
| Frequency     | RBW           |
|---------------|---------------|
| 9 ~ 150 kHz   | 200 ~ 300 Hz  |
| 0.15 ~ 30 MHz | 9 ~ 10 kHz    |
| 30 ~ 1000 MHz | 100 ~ 120 kHz |
| > 1000 MHz    | 1 MHz         |

#### **Average Field Strength Measurements**

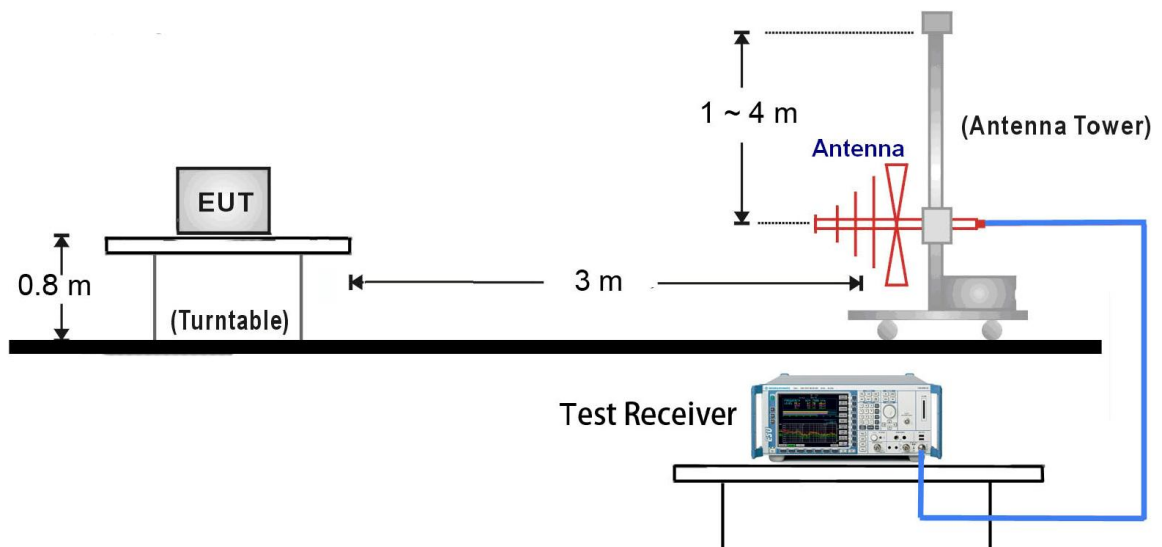
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW  $\geq 1/T$
4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

#### 7.6.4. Test Setup

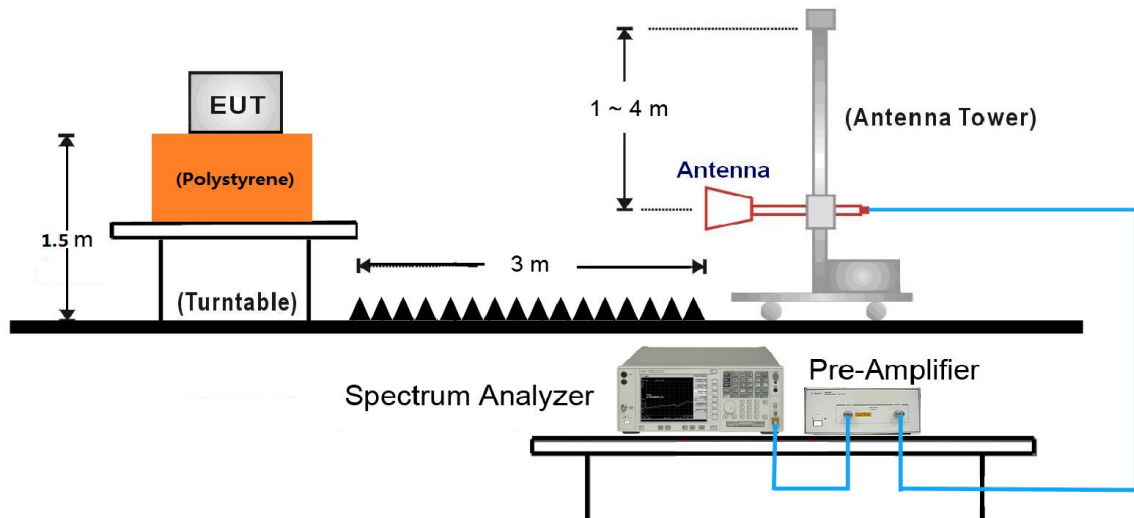
##### 9kHz ~ 30MHz Test Setup:



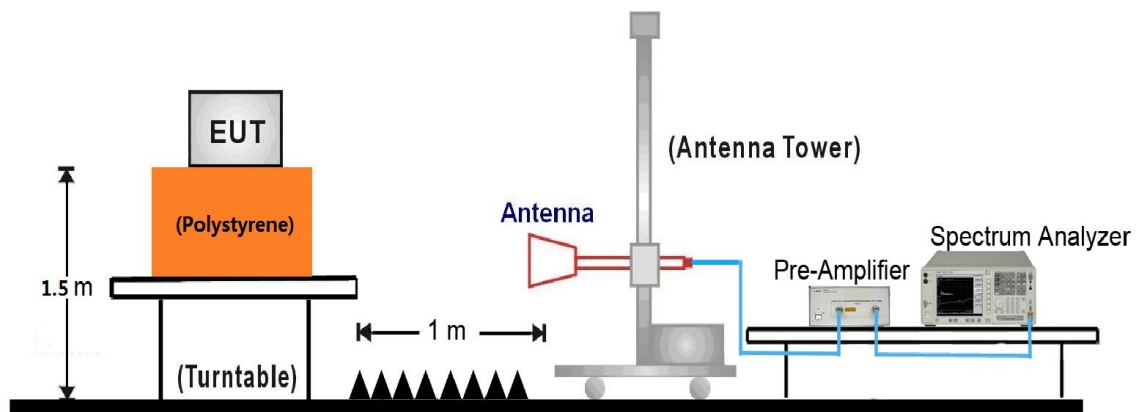
##### 30MHz ~ 1GHz Test Setup:



### 1GHz ~ 18GHz Test Setup:



### 18GHz ~ 25GHz Test Setup:



### 7.6.5. Test Result

|               |                                                                                                                                                                                   |                |          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Test Mode:    | 802.11b                                                                                                                                                                           | Test Site:     | AC2      |
| Test Channel: | 01                                                                                                                                                                                | Test Engineer: | Snake Ni |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |          |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4825.0          | 36.8                 | 2.7         | 39.5                   | 74.0           | -34.5       | Peak     | Horizontal   |
|      | 8140.0          | 31.8                 | 10.6        | 42.4                   | 74.0           | -31.6       | Peak     | Horizontal   |
| *    | 10205.5         | 32.2                 | 14.0        | 46.2                   | 82.2           | -36.0       | Peak     | Horizontal   |
| *    | 12934.0         | 31.5                 | 17.1        | 48.6                   | 82.2           | -33.6       | Peak     | Horizontal   |
|      | 4825.0          | 35.4                 | 2.7         | 38.1                   | 74.0           | -35.9       | Peak     | Vertical     |
|      | 7536.5          | 32.3                 | 11.0        | 43.3                   | 74.0           | -30.7       | Peak     | Vertical     |
| *    | 8913.5          | 30.8                 | 11.9        | 42.7                   | 82.2           | -39.5       | Peak     | Vertical     |
| *    | 9840.0          | 31.4                 | 13.5        | 44.9                   | 82.2           | -37.3       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (102.2dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Test Mode:    | 802.11b                                                                                                                                                                           | Test Site:     | AC2      |
| Test Channel: | 06                                                                                                                                                                                | Test Engineer: | Snake Ni |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |          |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4876.0          | 37.6                 | 2.6         | 40.2                   | 74.0           | -33.8       | Peak     | Horizontal   |
|      | 7375.0          | 32.5                 | 10.8        | 43.3                   | 74.0           | -30.7       | Peak     | Horizontal   |
| *    | 8599.0          | 32.6                 | 11.0        | 43.6                   | 81.3           | -37.7       | Peak     | Horizontal   |
| *    | 9729.5          | 33.2                 | 12.4        | 45.6                   | 81.3           | -35.7       | Peak     | Horizontal   |
|      | 4876.0          | 38.3                 | 2.6         | 40.9                   | 74.0           | -33.1       | Peak     | Vertical     |
|      | 5437.0          | 35.4                 | 3.3         | 38.7                   | 74.0           | -35.3       | Peak     | Vertical     |
| *    | 8701.0          | 33.1                 | 11.4        | 44.5                   | 81.3           | -36.8       | Peak     | Vertical     |
| *    | 9772.0          | 33.3                 | 12.6        | 45.9                   | 81.3           | -35.4       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (101.3dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Test Mode:    | 802.11b                                                                                                                                                                           | Test Site:     | AC2      |
| Test Channel: | 11                                                                                                                                                                                | Test Engineer: | Snake Ni |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |          |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4927.0          | 36.9                 | 2.6         | 39.5                   | 74.0           | -34.5       | Peak     | Horizontal   |
|      | 7519.5          | 32.9                 | 10.9        | 43.8                   | 74.0           | -30.2       | Peak     | Horizontal   |
| *    | 8607.5          | 32.5                 | 11.1        | 43.6                   | 80.2           | -36.6       | Peak     | Horizontal   |
| *    | 9712.5          | 32.8                 | 12.3        | 45.1                   | 80.2           | -35.1       | Peak     | Horizontal   |
|      | 4927.0          | 37.9                 | 2.6         | 40.5                   | 74.0           | -33.5       | Peak     | Vertical     |
|      | 7511.0          | 32.6                 | 11.0        | 43.6                   | 74.0           | -30.4       | Peak     | Vertical     |
| *    | 8854.0          | 31.3                 | 11.7        | 43.0                   | 80.2           | -37.2       | Peak     | Vertical     |
| *    | 9899.5          | 31.7                 | 13.3        | 45.0                   | 80.2           | -35.2       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (100.2dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Test Mode:    | 802.11g                                                                                                                                                                           | Test Site:     | AC2      |
| Test Channel: | 01                                                                                                                                                                                | Test Engineer: | Snake Ni |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |          |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4825.0          | 36.2                 | 2.7         | 38.9                   | 74.0           | -35.1       | Peak     | Horizontal   |
|      | 7409.0          | 32.3                 | 10.8        | 43.1                   | 74.0           | -30.9       | Peak     | Horizontal   |
| *    | 8871.0          | 31.6                 | 11.5        | 43.1                   | 82.2           | -39.1       | Peak     | Horizontal   |
| *    | 9848.5          | 31.4                 | 13.3        | 44.7                   | 82.2           | -37.5       | Peak     | Horizontal   |
|      | 4825.0          | 35.7                 | 2.7         | 38.4                   | 74.0           | -35.6       | Peak     | Vertical     |
|      | 7460.0          | 32.7                 | 11.1        | 43.8                   | 74.0           | -30.2       | Peak     | Vertical     |
| *    | 8905.0          | 30.7                 | 12.0        | 42.7                   | 82.2           | -39.5       | Peak     | Vertical     |
| *    | 9882.5          | 33.6                 | 13.3        | 46.9                   | 82.2           | -35.3       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (102.2dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Test Mode:    | 802.11g                                                                                                                                                                           | Test Site:     | AC2      |
| Test Channel: | 06                                                                                                                                                                                | Test Engineer: | Snake Ni |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |          |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4876.0          | 36.1                 | 2.6         | 38.7                   | 74.0           | -35.3       | Peak     | Horizontal   |
|      | 7264.5          | 33.2                 | 10.7        | 43.9                   | 74.0           | -30.1       | Peak     | Horizontal   |
| *    | 8913.5          | 30.8                 | 11.9        | 42.7                   | 81.8           | -39.1       | Peak     | Horizontal   |
| *    | 9721.0          | 33.0                 | 12.3        | 45.3                   | 81.8           | -36.5       | Peak     | Horizontal   |
|      | 4876.0          | 36.4                 | 2.6         | 39.0                   | 74.0           | -35.0       | Peak     | Vertical     |
|      | 7332.5          | 32.2                 | 10.7        | 42.9                   | 74.0           | -31.1       | Peak     | Vertical     |
| *    | 8777.5          | 31.2                 | 11.9        | 43.1                   | 81.8           | -38.7       | Peak     | Vertical     |
| *    | 9950.5          | 31.9                 | 13.5        | 45.4                   | 81.8           | -36.4       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (101.8dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Test Mode:    | 802.11g                                                                                                                                                                           | Test Site:     | AC2      |
| Test Channel: | 11                                                                                                                                                                                | Test Engineer: | Snake Ni |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |          |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4927.0          | 38.3                 | 2.6         | 40.9                   | 74.0           | -33.1       | Peak     | Horizontal   |
|      | 7451.5          | 32.3                 | 10.9        | 43.2                   | 74.0           | -30.8       | Peak     | Horizontal   |
| *    | 8590.5          | 31.9                 | 11.0        | 42.9                   | 81.6           | -38.7       | Peak     | Horizontal   |
| *    | 9899.5          | 31.8                 | 13.3        | 45.1                   | 81.6           | -36.5       | Peak     | Horizontal   |
|      | 4927.0          | 37.5                 | 2.6         | 40.1                   | 74.0           | -33.9       | Peak     | Vertical     |
|      | 7451.5          | 31.7                 | 10.9        | 42.6                   | 74.0           | -31.4       | Peak     | Vertical     |
| *    | 8786.0          | 31.9                 | 11.8        | 43.7                   | 81.6           | -37.9       | Peak     | Vertical     |
| *    | 9721.0          | 32.9                 | 12.3        | 45.2                   | 81.6           | -36.4       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (101.6dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Test Mode:    | 802.11n-HT20                                                                                                                                                                      | Test Site:     | AC2      |
| Test Channel: | 01                                                                                                                                                                                | Test Engineer: | Snake Ni |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |          |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4825.0          | 37.6                 | 2.7         | 40.3                   | 74.0           | -33.7       | Peak     | Horizontal   |
|      | 7400.5          | 32.2                 | 10.8        | 43.0                   | 74.0           | -31.0       | Peak     | Horizontal   |
| *    | 8777.5          | 32.1                 | 11.9        | 44.0                   | 81.9           | -37.9       | Peak     | Horizontal   |
| *    | 9627.5          | 32.8                 | 12.7        | 45.5                   | 81.9           | -36.4       | Peak     | Horizontal   |
|      | 4825.0          | 38.0                 | 2.7         | 40.7                   | 74.0           | -33.3       | Peak     | Vertical     |
|      | 7519.5          | 34.3                 | 10.9        | 45.2                   | 74.0           | -28.8       | Peak     | Vertical     |
| *    | 8701.0          | 32.7                 | 11.4        | 44.1                   | 81.9           | -37.8       | Peak     | Vertical     |
| *    | 9908.0          | 32.7                 | 13.5        | 46.2                   | 81.9           | -35.7       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (101.9dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Test Mode:    | 802.11n-HT20                                                                                                                                                                      | Test Site:     | AC2      |
| Test Channel: | 06                                                                                                                                                                                | Test Engineer: | Snake Ni |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |          |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4876.0          | 36.9                 | 2.6         | 39.5                   | 74.0           | -34.5       | Peak     | Horizontal   |
|      | 7519.5          | 33.0                 | 10.9        | 43.9                   | 74.0           | -30.1       | Peak     | Horizontal   |
| *    | 8675.5          | 31.0                 | 11.2        | 42.2                   | 81.9           | -39.7       | Peak     | Horizontal   |
| *    | 9967.5          | 32.9                 | 13.2        | 46.1                   | 81.9           | -35.8       | Peak     | Horizontal   |
|      | 4876.0          | 37.7                 | 2.6         | 40.3                   | 74.0           | -33.7       | Peak     | Vertical     |
|      | 7494.0          | 33.0                 | 11.0        | 44.0                   | 74.0           | -30.0       | Peak     | Vertical     |
| *    | 8624.5          | 31.9                 | 11.2        | 43.1                   | 81.9           | -38.8       | Peak     | Vertical     |
| *    | 9661.5          | 33.1                 | 12.5        | 45.6                   | 81.9           | -36.3       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (101.9dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Test Mode:    | 802.11n-HT20                                                                                                                                                                      | Test Site:     | AC2      |
| Test Channel: | 11                                                                                                                                                                                | Test Engineer: | Snake Ni |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |          |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4927.0          | 37.6                 | 2.6         | 40.2                   | 74.0           | -33.8       | Peak     | Horizontal   |
|      | 7281.5          | 32.7                 | 10.6        | 43.3                   | 74.0           | -30.7       | Peak     | Horizontal   |
| *    | 8896.5          | 31.6                 | 11.7        | 43.3                   | 81.9           | -38.6       | Peak     | Horizontal   |
| *    | 9916.5          | 32.8                 | 13.4        | 46.2                   | 81.9           | -35.7       | Peak     | Horizontal   |
|      | 4927.0          | 38.5                 | 2.6         | 41.1                   | 74.0           | -32.9       | Peak     | Vertical     |
|      | 7451.5          | 32.3                 | 10.9        | 43.2                   | 74.0           | -30.8       | Peak     | Vertical     |
| *    | 8616.0          | 31.5                 | 11.2        | 42.7                   | 81.9           | -39.2       | Peak     | Vertical     |
| *    | 9721.0          | 33.1                 | 12.3        | 45.4                   | 81.9           | -36.5       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (101.9dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Test Mode:    | 802.11n-HT40                                                                                                                                                                      | Test Site:     | AC2      |
| Test Channel: | 03                                                                                                                                                                                | Test Engineer: | Snake Ni |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |          |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4842.0          | 37.3                 | 2.9         | 40.2                   | 74.0           | -33.8       | Peak     | Horizontal   |
|      | 7383.5          | 32.3                 | 10.7        | 43.0                   | 74.0           | -31.0       | Peak     | Horizontal   |
| *    | 9576.5          | 32.2                 | 12.8        | 45.0                   | 78.9           | -33.9       | Peak     | Horizontal   |
| *    | 10248.0         | 31.5                 | 14.3        | 45.8                   | 78.9           | -33.1       | Peak     | Horizontal   |
|      | 4842.0          | 37.1                 | 2.9         | 40.0                   | 74.0           | -34.0       | Peak     | Vertical     |
|      | 7460.0          | 32.2                 | 11.1        | 43.3                   | 74.0           | -30.7       | Peak     | Vertical     |
| *    | 9610.5          | 32.5                 | 12.5        | 45.0                   | 78.9           | -33.9       | Peak     | Vertical     |
| *    | 10256.5         | 32.0                 | 14.3        | 46.3                   | 78.9           | -32.6       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (98.9dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Test Mode:    | 802.11n-HT40                                                                                                                                                                      | Test Site:     | AC2      |
| Test Channel: | 06                                                                                                                                                                                | Test Engineer: | Snake Ni |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |          |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4876.0          | 37.3                 | 2.6         | 39.9                   | 74.0           | -34.1       | Peak     | Horizontal   |
|      | 7511.0          | 32.7                 | 11.0        | 43.7                   | 74.0           | -30.3       | Peak     | Horizontal   |
| *    | 9721.0          | 33.4                 | 12.3        | 45.7                   | 78.9           | -33.2       | Peak     | Horizontal   |
| *    | 10248.0         | 32.3                 | 14.3        | 46.6                   | 78.9           | -32.3       | Peak     | Horizontal   |
|      | 4876.0          | 38.0                 | 2.6         | 40.6                   | 74.0           | -33.4       | Peak     | Vertical     |
|      | 7451.5          | 32.7                 | 10.9        | 43.6                   | 74.0           | -30.4       | Peak     | Vertical     |
| *    | 9687.0          | 33.5                 | 12.5        | 46.0                   | 78.9           | -32.9       | Peak     | Vertical     |
| *    | 10231.0         | 32.1                 | 14.4        | 46.5                   | 78.9           | -32.4       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is 30dBc of the fundamental emission level (98.9dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

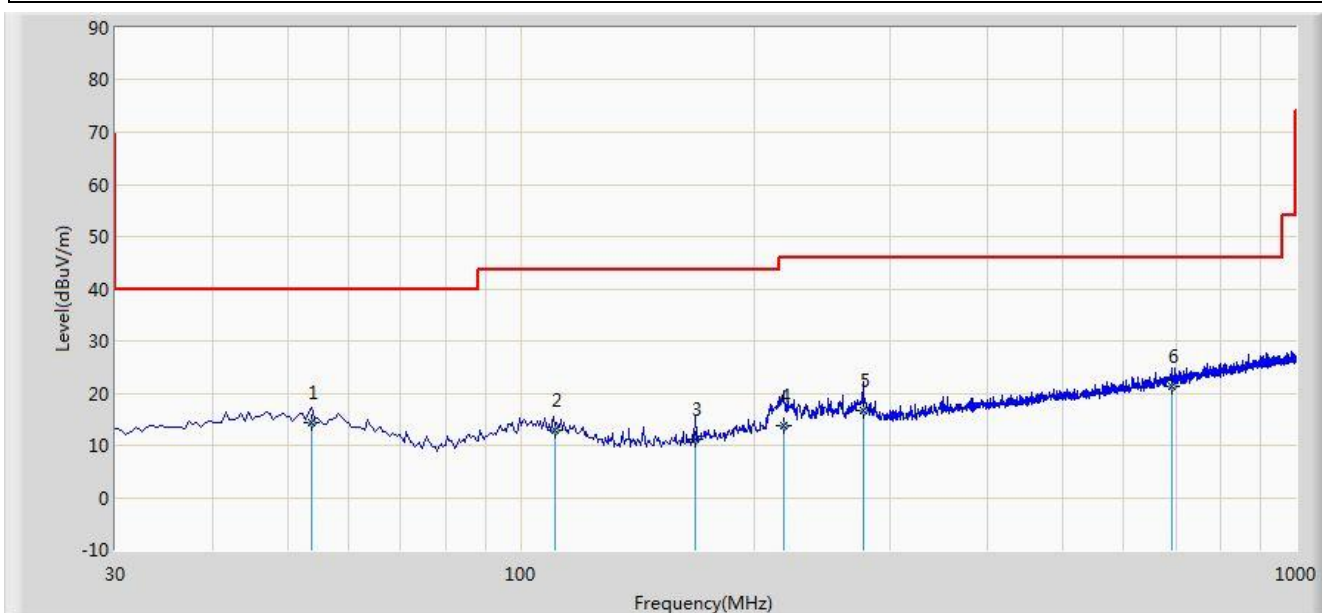
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|               |                                                                                                                                                                                   |                |          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Test Mode:    | 802.11n-HT40                                                                                                                                                                      | Test Site:     | AC2      |
| Test Channel: | 09                                                                                                                                                                                | Test Engineer: | Snake Ni |
| Remark:       | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |                |          |

| Mark                                                                                                                                                                                                                                                                                          | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|                                                                                                                                                                                                                                                                                               | 4901.5          | 38.4                 | 2.6         | 41.0                   | 74.0           | -33.0       | Peak     | Horizontal   |
|                                                                                                                                                                                                                                                                                               | 7613.0          | 32.7                 | 10.8        | 43.5                   | 74.0           | -30.5       | Peak     | Horizontal   |
| *                                                                                                                                                                                                                                                                                             | 9678.5          | 32.0                 | 12.5        | 44.5                   | 78.8           | -34.3       | Peak     | Horizontal   |
| *                                                                                                                                                                                                                                                                                             | 10129.0         | 32.9                 | 13.6        | 46.5                   | 78.8           | -32.3       | Peak     | Horizontal   |
|                                                                                                                                                                                                                                                                                               | 4901.5          | 37.9                 | 2.6         | 40.5                   | 74.0           | -33.5       | Peak     | Vertical     |
|                                                                                                                                                                                                                                                                                               | 7562.0          | 32.5                 | 10.9        | 43.4                   | 74.0           | -30.6       | Peak     | Vertical     |
| *                                                                                                                                                                                                                                                                                             | 9755.0          | 33.4                 | 13.0        | 46.4                   | 78.8           | -32.4       | Peak     | Vertical     |
| *                                                                                                                                                                                                                                                                                             | 10180.0         | 32.3                 | 14.3        | 46.6                   | 78.8           | -32.2       | Peak     | Vertical     |
| Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (98.8dBμV/m) or 15.209 which is higher.<br>Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)<br>Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB) |                 |                      |             |                        |                |             |          |              |

### The worst case of Radiated Emission below 1GHz:

|                                                                         |                          |
|-------------------------------------------------------------------------|--------------------------|
| Site: AC2                                                               | Time: 2017/03/14 - 21:27 |
| Limit: FCC_Part15.209_RE(3m)                                            | Engineer: Snake Ni       |
| Probe: VULB9162_0.03GHz_8GHz                                            | Polarity: Horizontal     |
| EUT: E-reader                                                           | Power: AC 120V/60Hz      |
| <b>Note: There is the worst case within frequency range 30MHz~1GHz.</b> |                          |



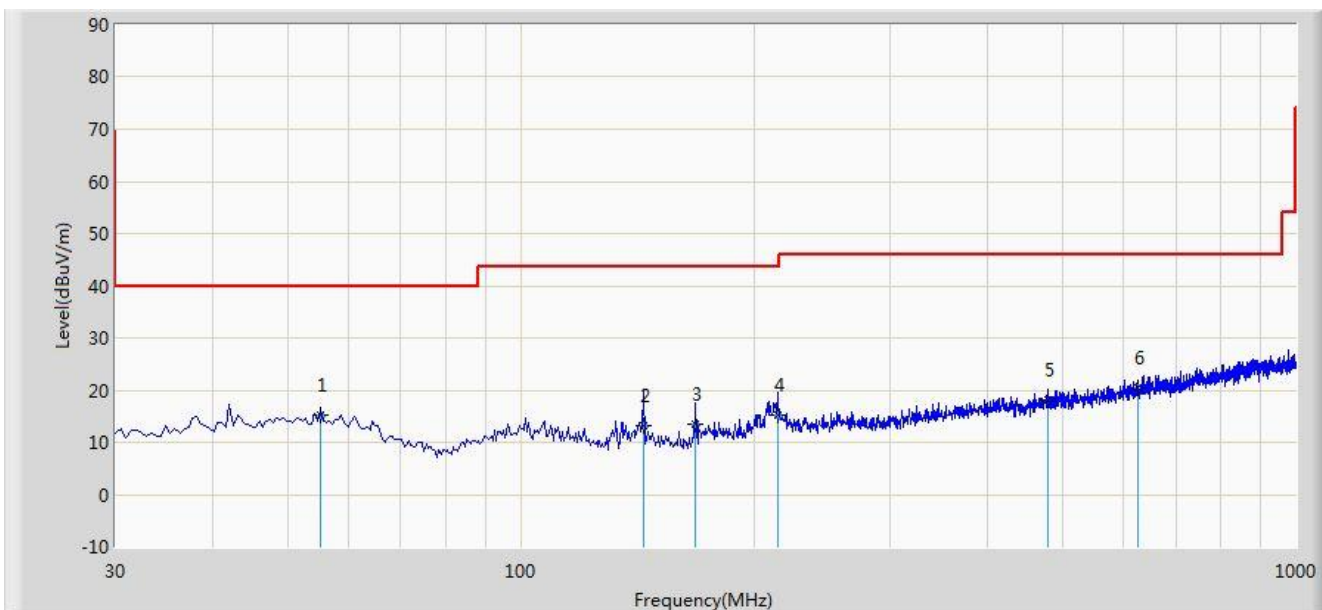
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 53.810          | 14.472                 | -0.430               | -25.528         | 40.000         | 14.901      | QP   |
| 2  |      |      | 110.560         | 12.929                 | 0.010                | -30.571         | 43.500         | 12.919      | QP   |
| 3  |      |      | 167.830         | 11.204                 | 0.920                | -32.296         | 43.500         | 10.284      | QP   |
| 4  |      |      | 218.220         | 13.787                 | 1.040                | -32.213         | 46.000         | 12.746      | QP   |
| 5  |      |      | 276.420         | 16.735                 | 2.410                | -29.265         | 46.000         | 14.326      | QP   |
| 6  |      | *    | 691.150         | 21.183                 | -0.520               | -24.817         | 46.000         | 21.702      | QP   |

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

|                                                                         |                          |
|-------------------------------------------------------------------------|--------------------------|
| Site: AC2                                                               | Time: 2017/03/14 - 21:50 |
| Limit: FCC_Part15.209_RE(3m)                                            | Engineer: Snake Ni       |
| Probe: VULB9162_0.03GHz_8GHz                                            | Polarity: Vertical       |
| EUT: E-reader                                                           | Power: AC 120V/60Hz      |
| <b>Note: There is the worst case within frequency range 30MHz~1GHz.</b> |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 55.280          | 15.219                 | 0.540                | -24.781         | 40.000         | 14.679      | QP   |
| 2  |      |      | 143.850         | 13.097                 | 3.540                | -30.403         | 43.500         | 9.557       | QP   |
| 3  |      |      | 168.230         | 13.343                 | 3.040                | -30.157         | 43.500         | 10.304      | QP   |
| 4  |      |      | 214.280         | 15.196                 | 2.550                | -28.304         | 43.500         | 12.645      | QP   |
| 5  |      |      | 479.620         | 18.184                 | -0.040               | -27.816         | 46.000         | 18.224      | QP   |
| 6  |      |      | 625.810         | 20.393                 | -0.240               | -25.607         | 46.000         | 20.633      | QP   |

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

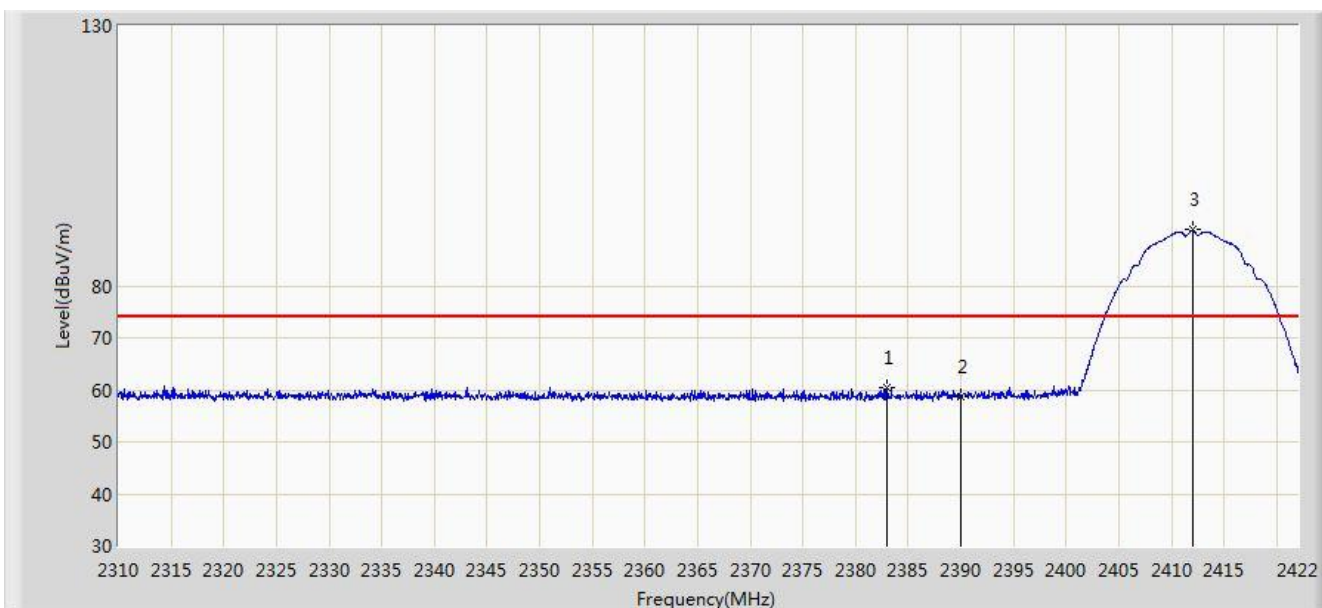
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

## 7.7. Radiated Restricted Band Edge Measurement

### 7.7.1. Test Result

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2017/03/18 - 01:37 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: E-reader                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at Channel 2412MHz |                          |

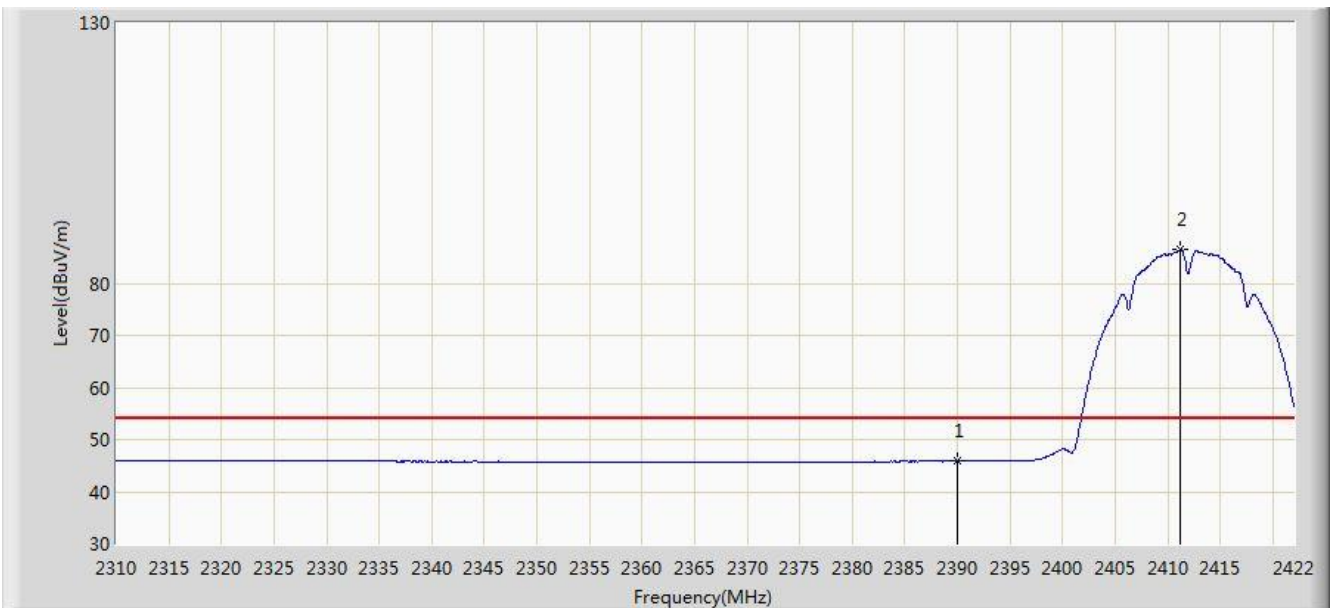


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2382.968        | 60.514                 | 28.275               | -13.486         | 74.000         | 32.239      | PK   |
| 2  |      |      | 2390.000        | 58.695                 | 26.417               | -15.305         | 74.000         | 32.278      | PK   |
| 3  |      | *    | 2412.032        | 90.750                 | 58.510               | N/A             | N/A            | 32.240      | PK   |

Test Mode: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2017/03/18 - 02:55 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: E-reader                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at Channel 2412MHz |                          |

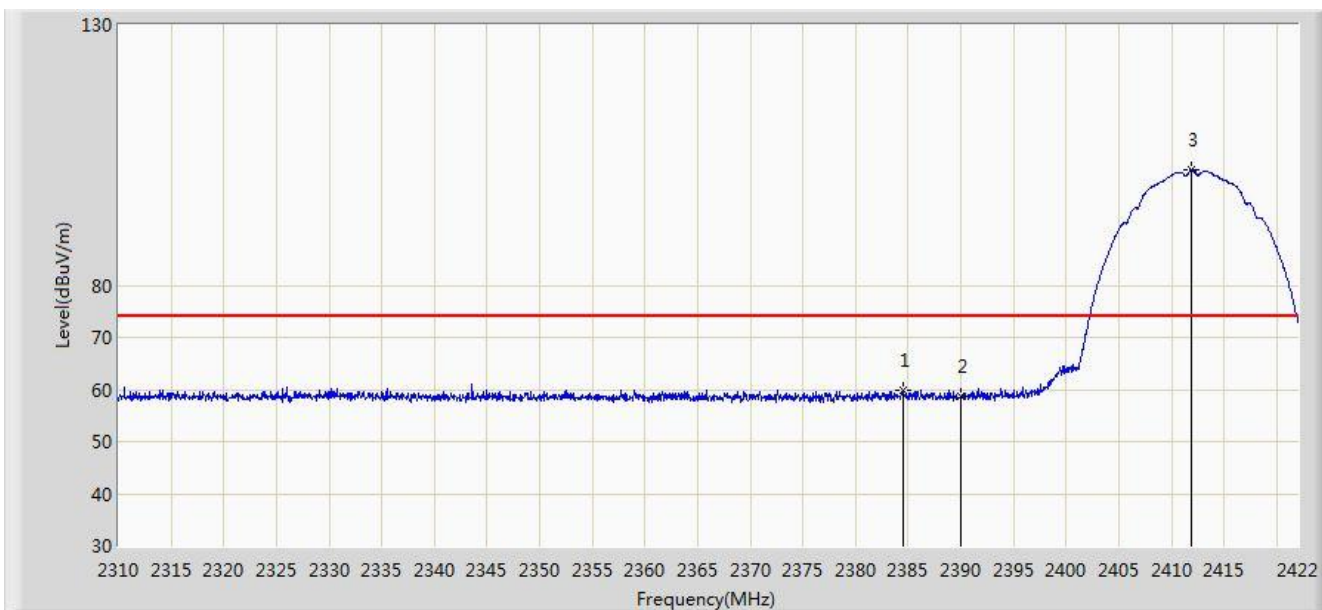


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 45.896                 | 13.618               | -8.104          | 54.000         | 32.278      | AV   |
| 2  |      | *    | 2411.136        | 86.424                 | 54.181               | N/A             | N/A            | 32.243      | AV   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2017/03/18 - 02:55 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: E-reader                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at Channel 2412MHz |                          |

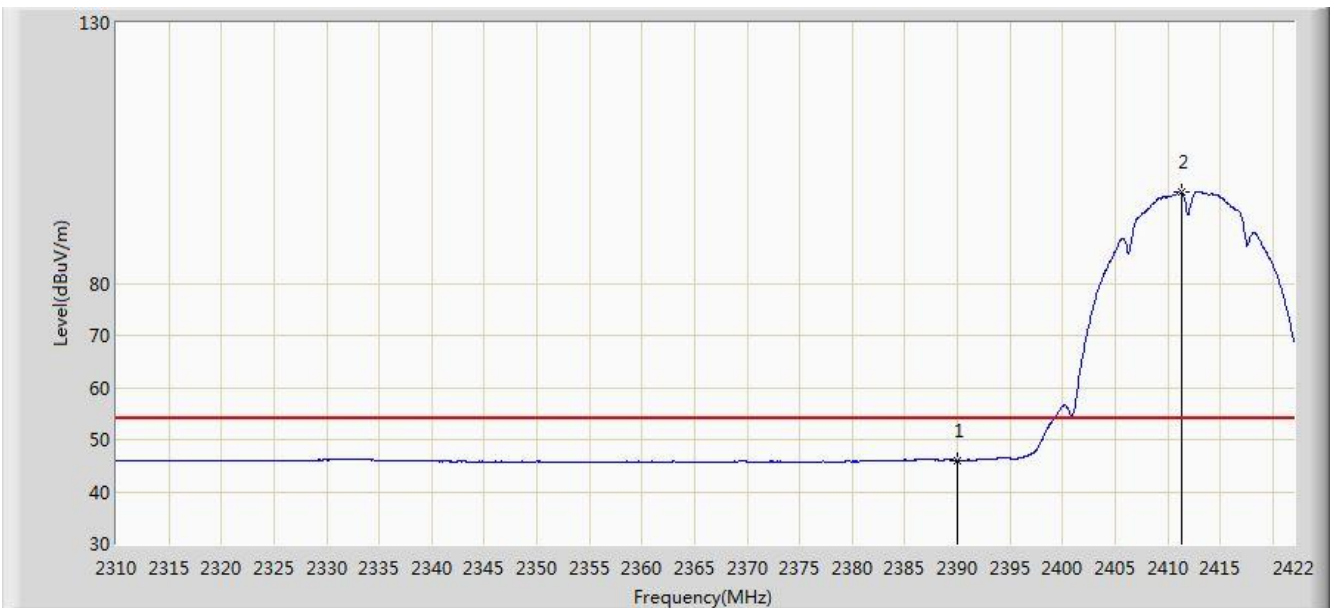


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2384.480        | 59.989                 | 27.742               | -14.011         | 74.000         | 32.247      | PK   |
| 2  |      |      | 2390.000        | 58.776                 | 26.498               | -15.224         | 74.000         | 32.278      | PK   |
| 3  |      | *    | 2411.920        | 102.230                | 69.990               | N/A             | N/A            | 32.240      | PK   |

Test Mode: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2017/03/18 - 02:57 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: E-reader                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at Channel 2412MHz |                          |

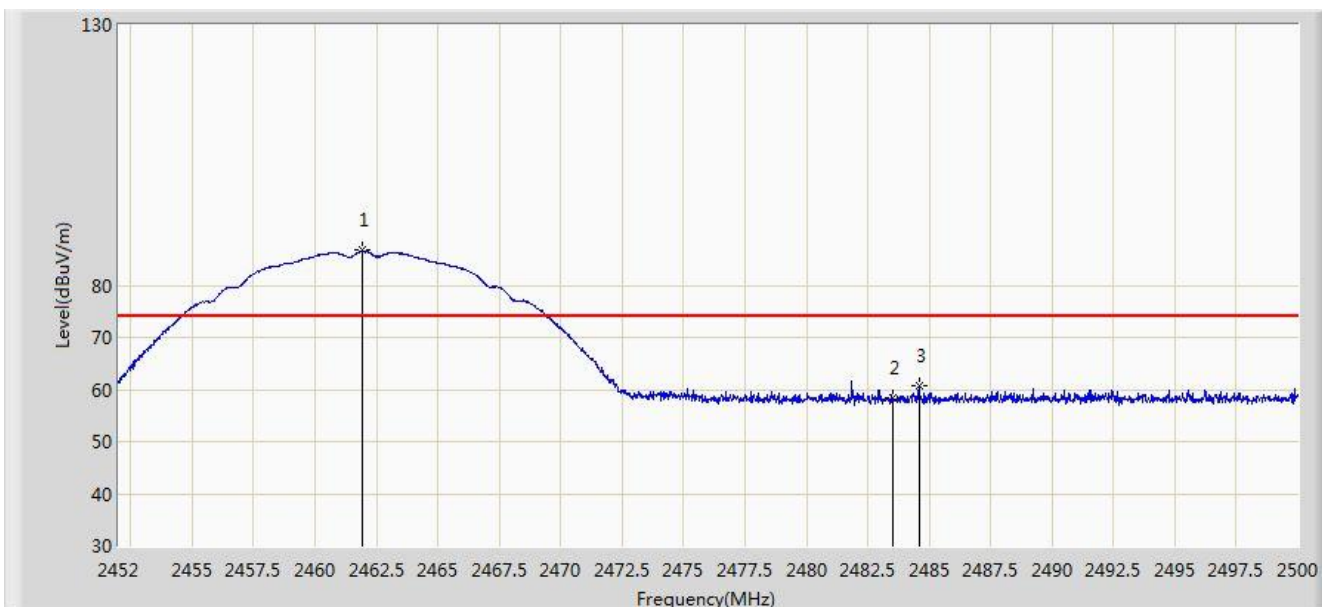


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 46.052                 | 13.774               | -7.948          | 54.000         | 32.278      | AV   |
| 2  |      | *    | 2411.304        | 97.654                 | 65.411               | N/A             | N/A            | 32.243      | AV   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2017/03/18 - 02:58 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: E-reader                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at Channel 2462MHz |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2461.912        | 86.689                 | 54.451               | N/A             | N/A            | 32.238      | PK   |
| 2  |      |      | 2483.500        | 58.461                 | 26.180               | -15.539         | 74.000         | 32.282      | PK   |
| 3  |      |      | 2484.592        | 60.639                 | 28.354               | -13.361         | 74.000         | 32.285      | PK   |

Test Mode: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2017/03/18 - 02:59 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: E-reader                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at Channel 2462MHz |                          |

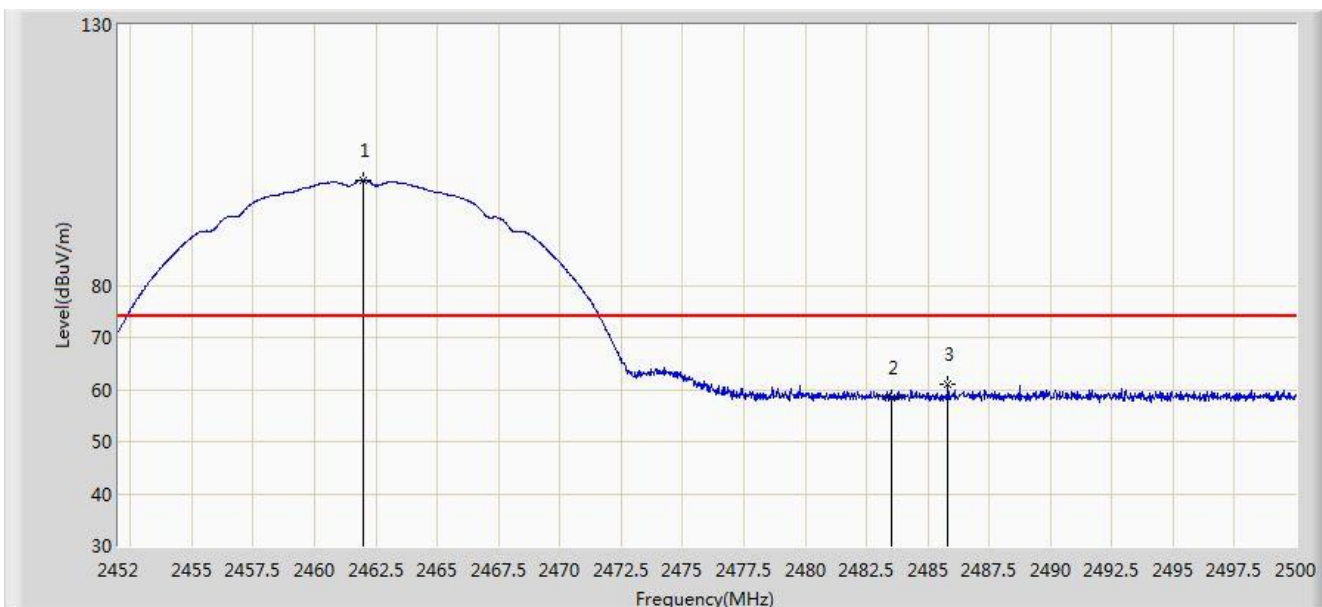


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2461.240        | 82.713                 | 50.478               | N/A             | N/A            | 32.235      | AV   |
| 2  |      |      | 2483.500        | 45.931                 | 13.650               | -8.069          | 54.000         | 32.282      | AV   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2017/03/18 - 03:00 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: E-reader                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at Channel 2462MHz |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2461.984        | 100.269                | 68.031               | N/A             | N/A            | 32.238      | PK   |
| 2  |      |      | 2483.500        | 58.525                 | 26.244               | -15.475         | 74.000         | 32.282      | PK   |
| 3  |      |      | 2485.816        | 60.983                 | 28.694               | -13.017         | 74.000         | 32.289      | PK   |

Test Mode: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2017/03/18 - 03:01 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: E-reader                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at Channel 2462MHz |                          |

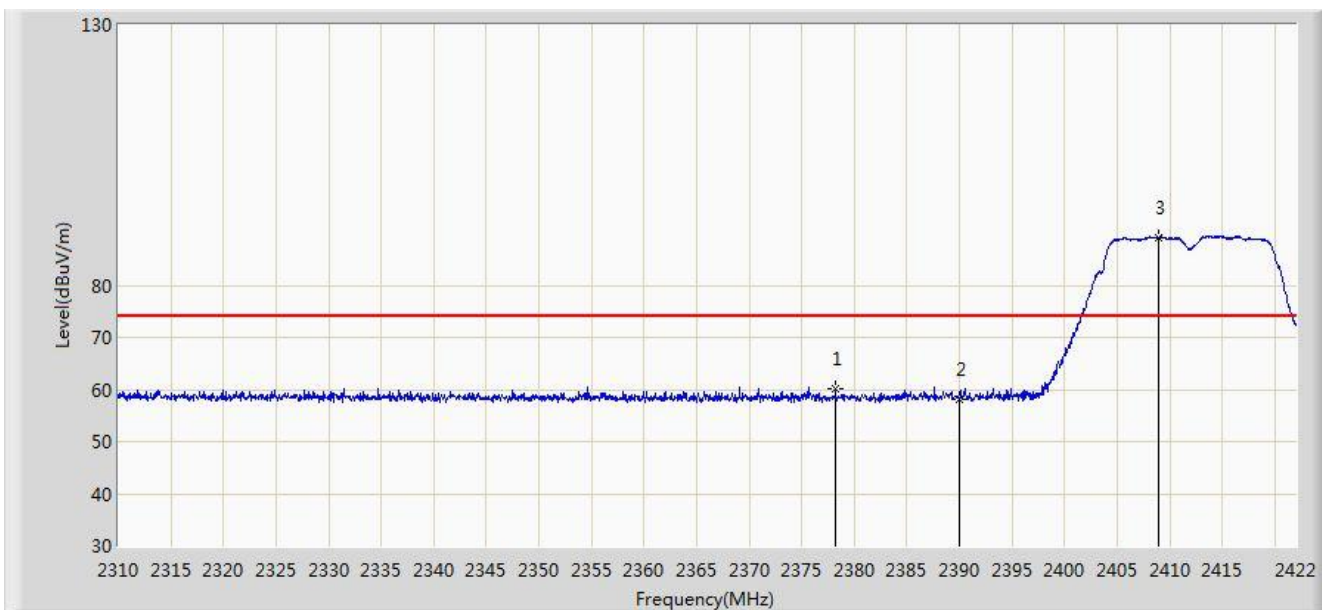


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2461.312        | 96.397                 | 64.162               | N/A             | N/A            | 32.235      | AV   |
| 2  |      |      | 2483.500        | 46.112                 | 13.831               | -7.888          | 54.000         | 32.282      | AV   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2017/03/18 - 03:01 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: E-reader                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at Channel 2412MHz |                          |

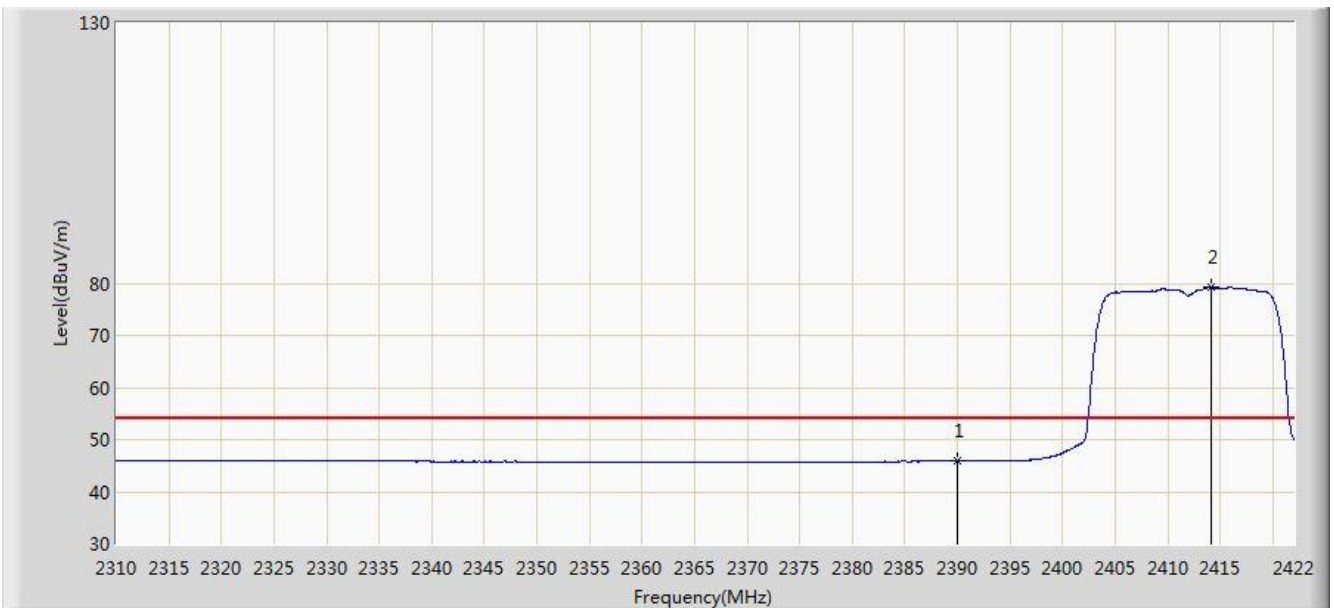


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2378.208        | 60.080                 | 27.868               | -13.920         | 74.000         | 32.212      | PK   |
| 2  |      |      | 2390.000        | 58.113                 | 25.835               | -15.887         | 74.000         | 32.278      | PK   |
| 3  |      | *    | 2408.896        | 89.208                 | 56.957               | N/A             | N/A            | 32.250      | PK   |

Test Mode: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2017/03/18 - 03:03 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: E-reader                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at Channel 2412MHz |                          |

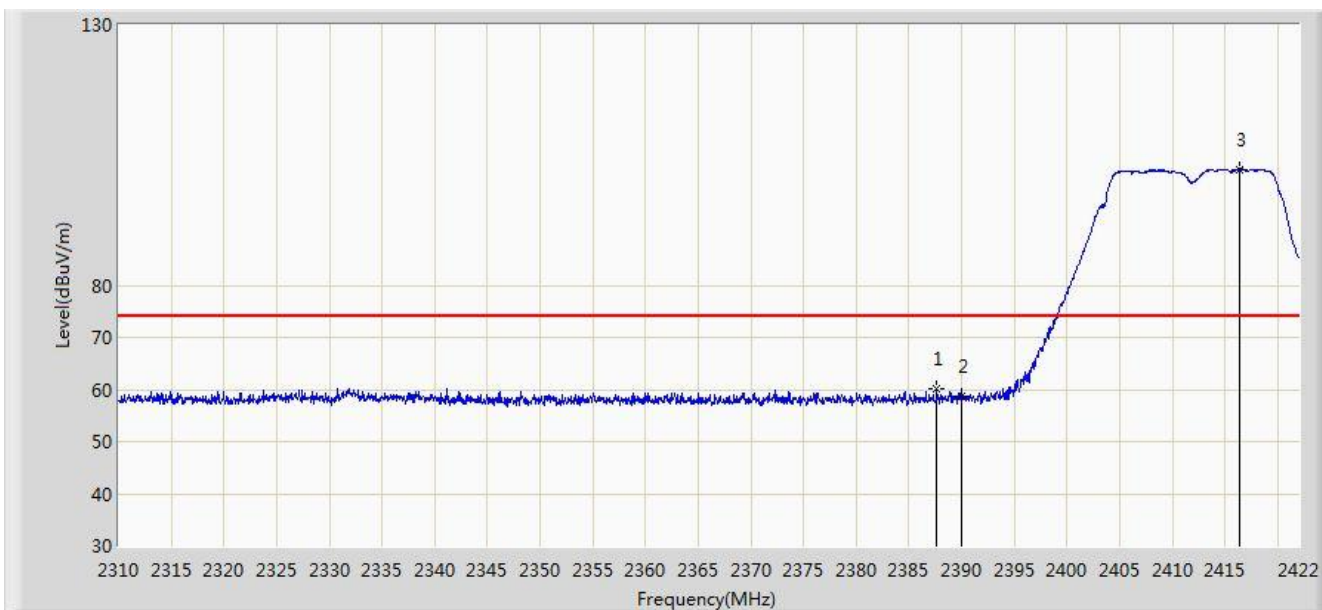


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 45.917                 | 13.639               | -8.083          | 54.000         | 32.278      | AV   |
| 2  |      | *    | 2414.104        | 79.227                 | 46.996               | N/A             | N/A            | 32.231      | AV   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2017/03/18 - 03:03 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: E-reader                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at Channel 2412MHz |                          |

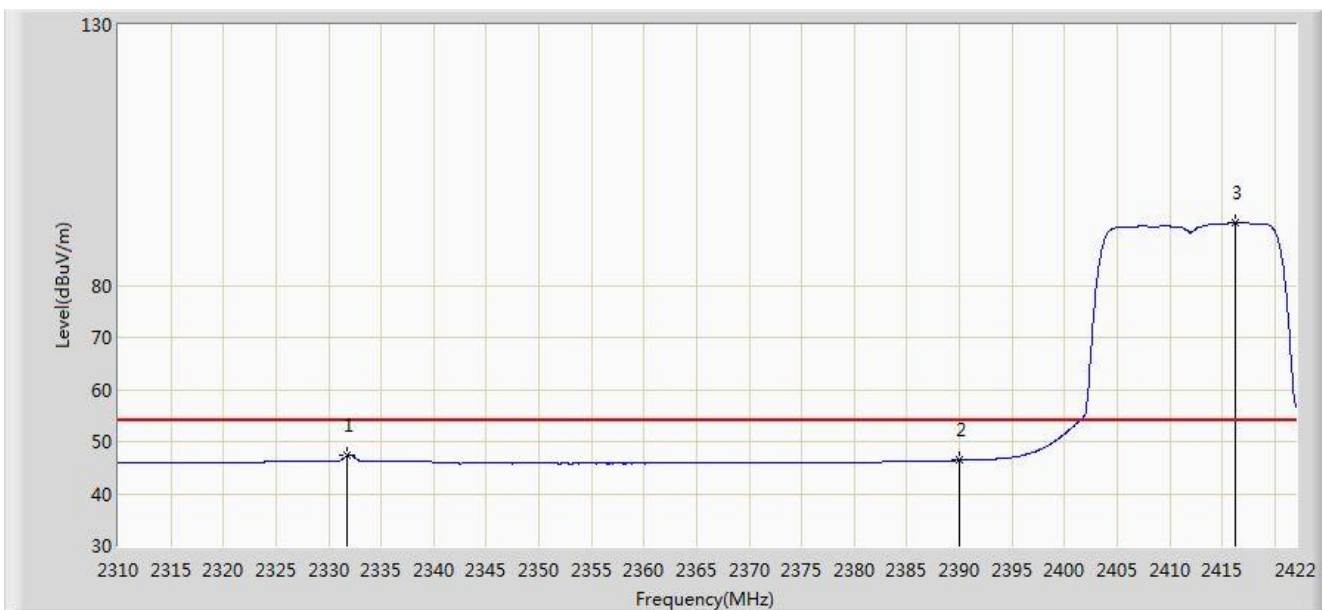


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2387.672        | 60.041                 | 27.776               | -13.959         | 74.000         | 32.265      | PK   |
| 2  |      |      | 2390.000        | 58.658                 | 26.380               | -15.342         | 74.000         | 32.278      | PK   |
| 3  |      | *    | 2416.344        | 102.259                | 70.037               | N/A             | N/A            | 32.222      | PK   |

Test Mode: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2017/03/18 - 03:04 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: E-reader                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at Channel 2412MHz |                          |

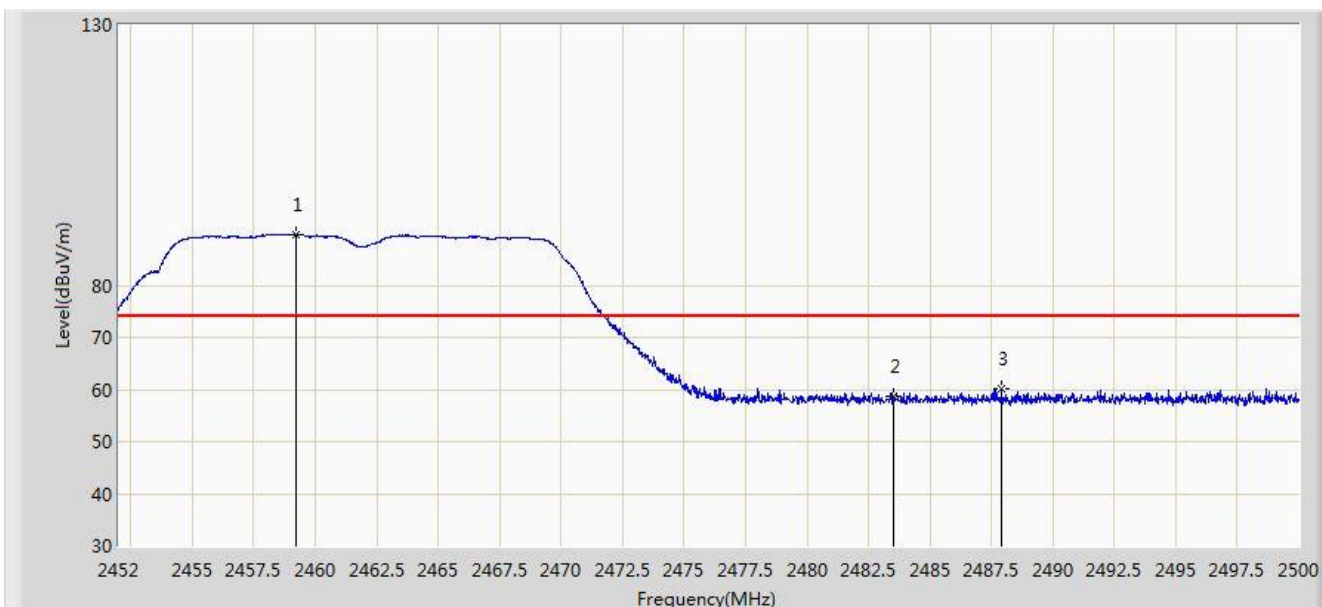


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2331.728        | 47.309                 | 14.956               | -6.691          | 54.000         | 32.353      | AV   |
| 2  |      |      | 2390.000        | 46.404                 | 14.126               | -7.596          | 54.000         | 32.278      | AV   |
| 3  |      | *    | 2416.176        | 91.980                 | 59.758               | N/A             | N/A            | 32.222      | AV   |

Test Mode: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2017/03/18 - 03:04 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: E-reader                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at Channel 2462MHz |                          |

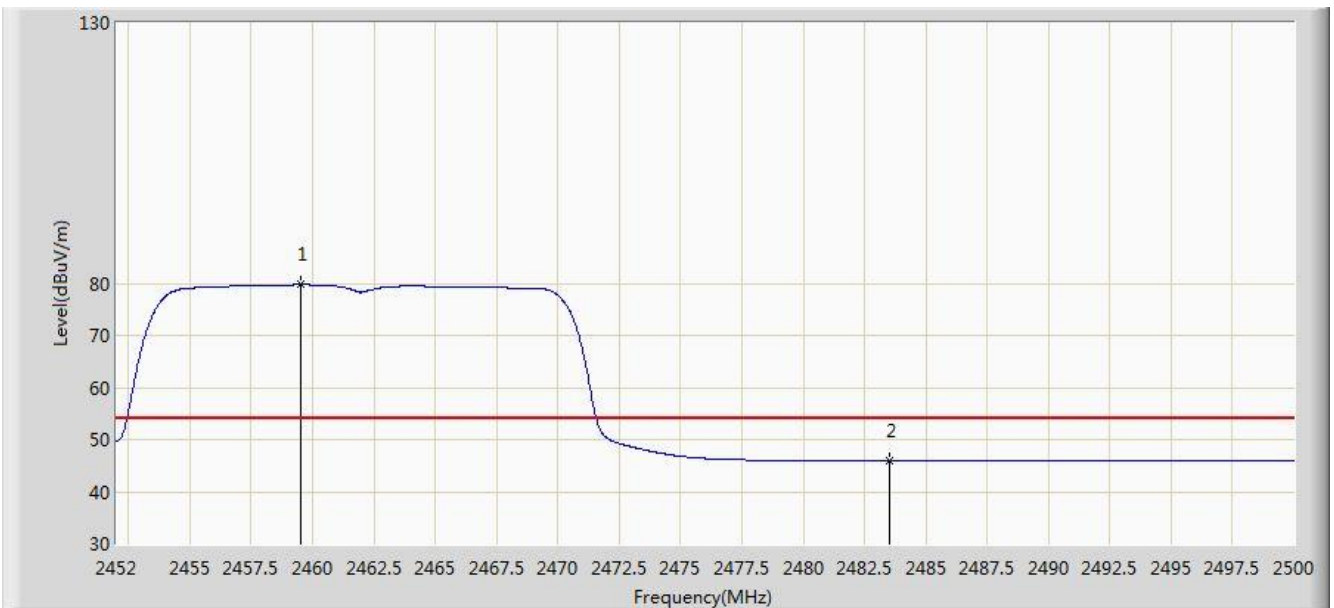


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2459.224        | 89.654                 | 57.428               | N/A             | N/A            | 32.226      | PK   |
| 2  |      |      | 2483.500        | 58.597                 | 26.316               | -15.403         | 74.000         | 32.282      | PK   |
| 3  |      |      | 2487.904        | 60.046                 | 27.750               | -13.954         | 74.000         | 32.297      | PK   |

Test Mode: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2017/03/18 - 03:05 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: E-reader                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at Channel 2462MHz |                          |

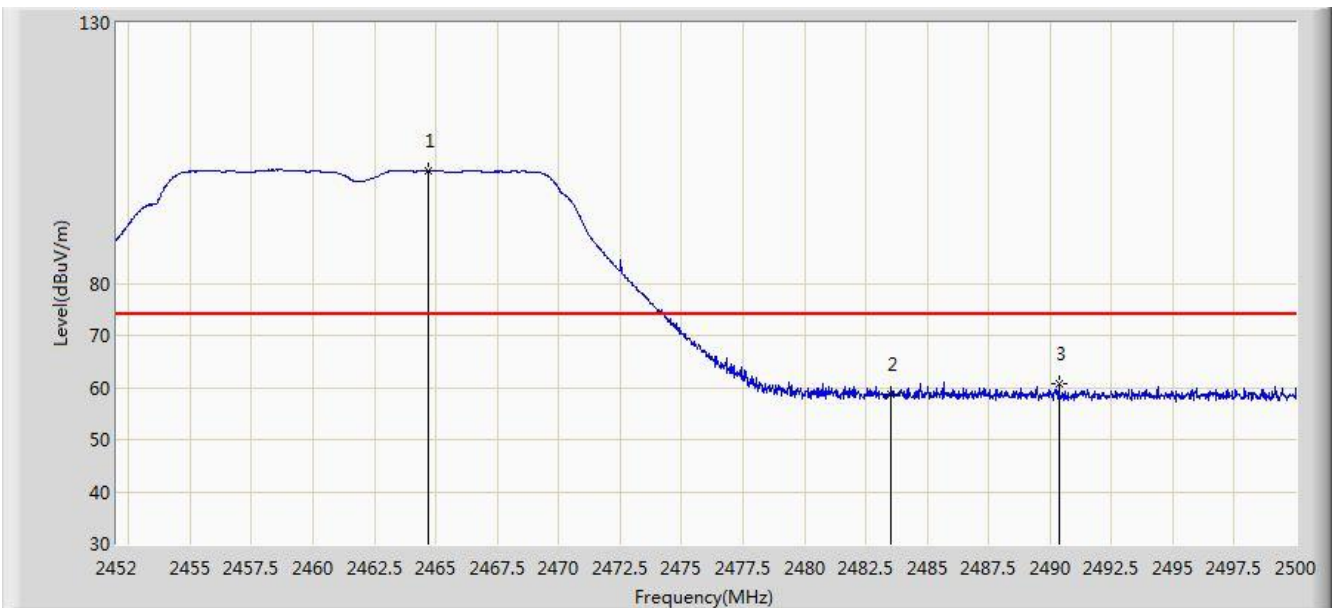


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2459.512        | 79.805                 | 47.577               | N/A             | N/A            | 32.227      | AV   |
| 2  |      |      | 2483.500        | 45.984                 | 13.703               | -8.016          | 54.000         | 32.282      | AV   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2017/03/18 - 03:06 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: E-reader                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at Channel 2462MHz |                          |

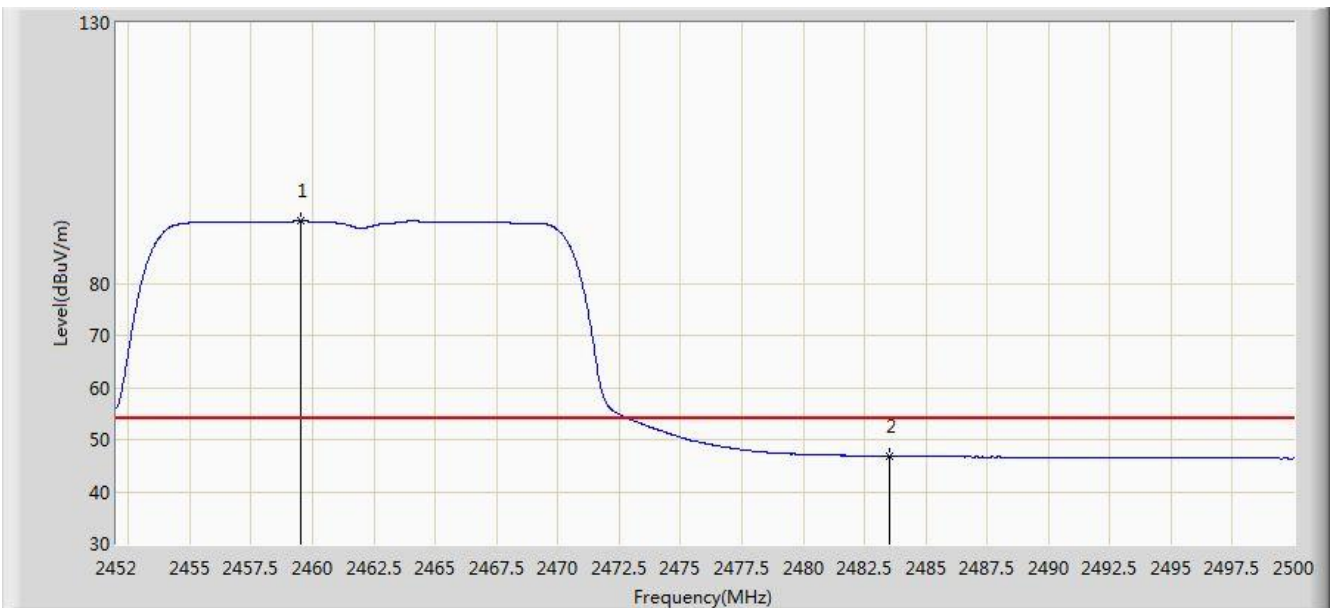


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2464.672        | 101.607                | 69.366               | N/A             | N/A            | 32.242      | PK   |
| 2  |      |      | 2483.500        | 58.640                 | 26.359               | -15.360         | 74.000         | 32.282      | PK   |
| 3  |      |      | 2490.352        | 60.769                 | 28.464               | -13.231         | 74.000         | 32.305      | PK   |

Test Mode: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC2                                         | Time: 2017/03/18 - 03:06 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: E-reader                                     | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at Channel 2462MHz |                          |

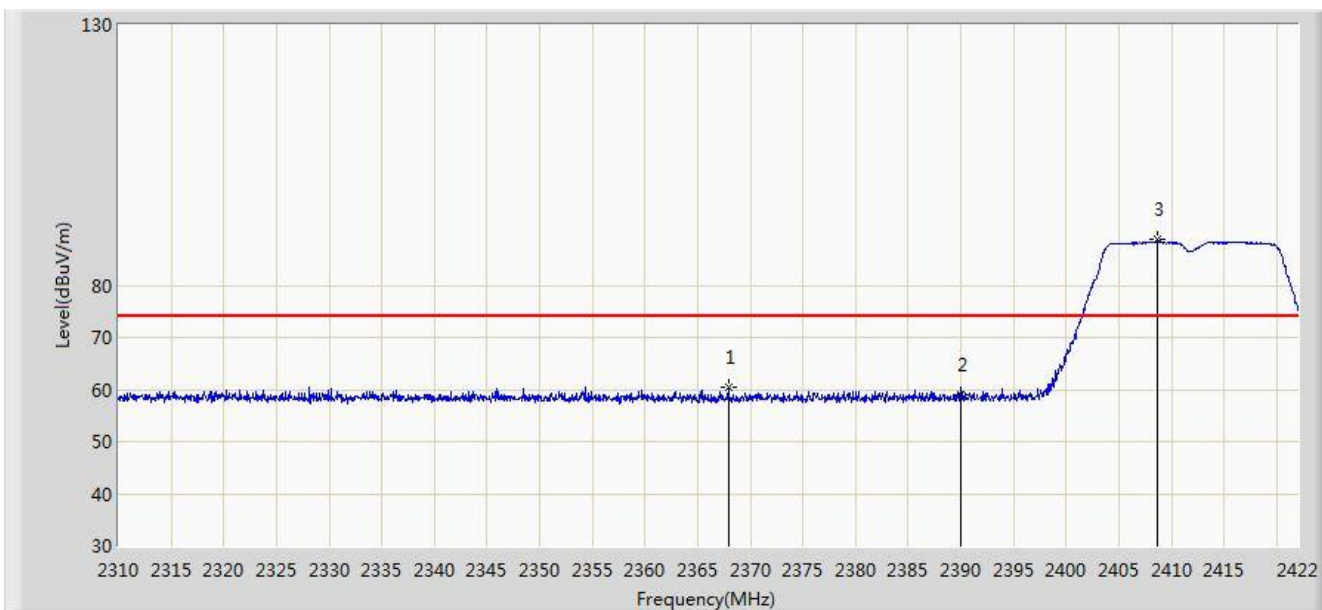


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2459.512        | 91.961                 | 59.733               | N/A             | N/A            | 32.227      | AV   |
| 2  |      |      | 2483.500        | 46.824                 | 14.543               | -7.176          | 54.000         | 32.282      | AV   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2017/03/18 - 03:07 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Horizontal     |
| EUT: E-reader                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz |                          |

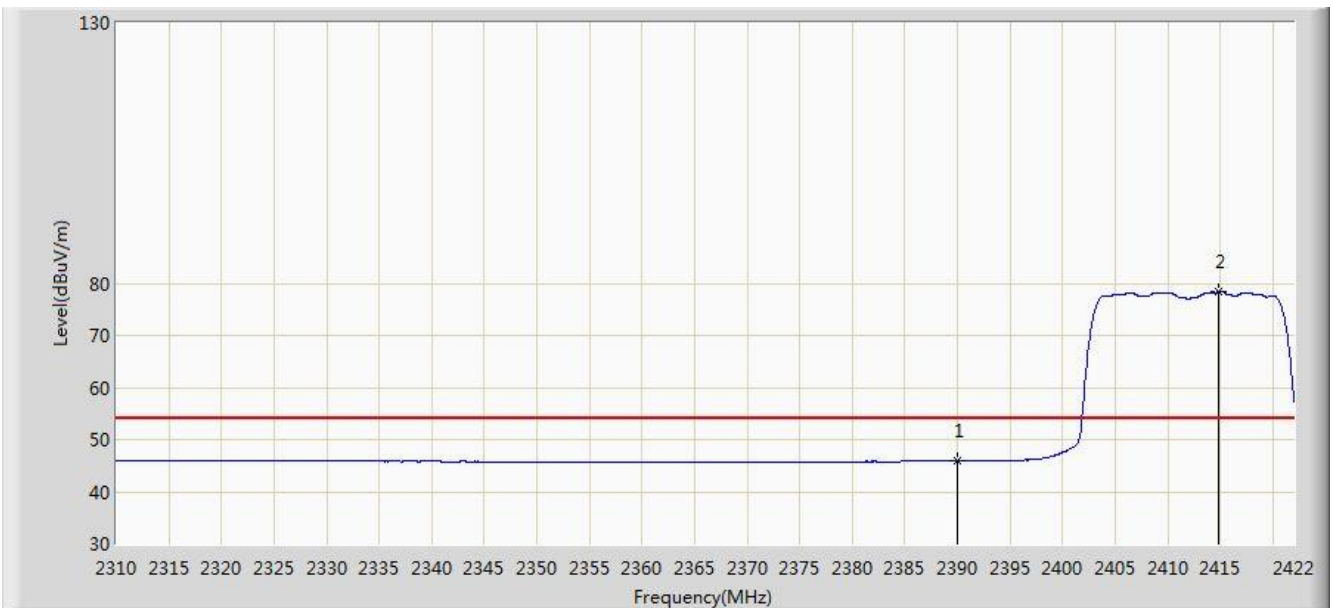


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2367.904        | 60.332                 | 28.103               | -13.668         | 74.000         | 32.229      | PK   |
| 2  |      |      | 2390.000        | 59.041                 | 26.763               | -14.959         | 74.000         | 32.278      | PK   |
| 3  |      | *    | 2408.728        | 88.711                 | 56.460               | N/A             | N/A            | 32.252      | PK   |

Test Mode: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2017/03/18 - 03:08 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Horizontal     |
| EUT: E-reader                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz |                          |

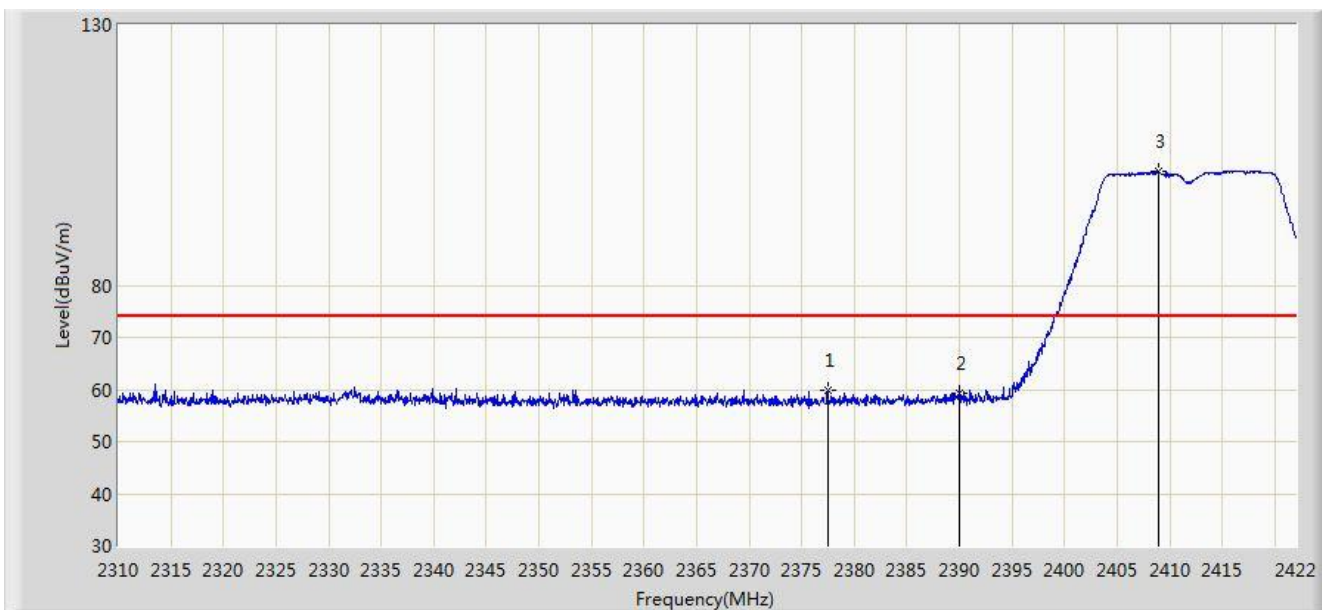


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 45.904                 | 13.626               | -8.096          | 54.000         | 32.278      | AV   |
| 2  |      | *    | 2414.776        | 78.298                 | 46.070               | N/A             | N/A            | 32.228      | AV   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2017/03/18 - 03:08 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: E-reader                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz |                          |

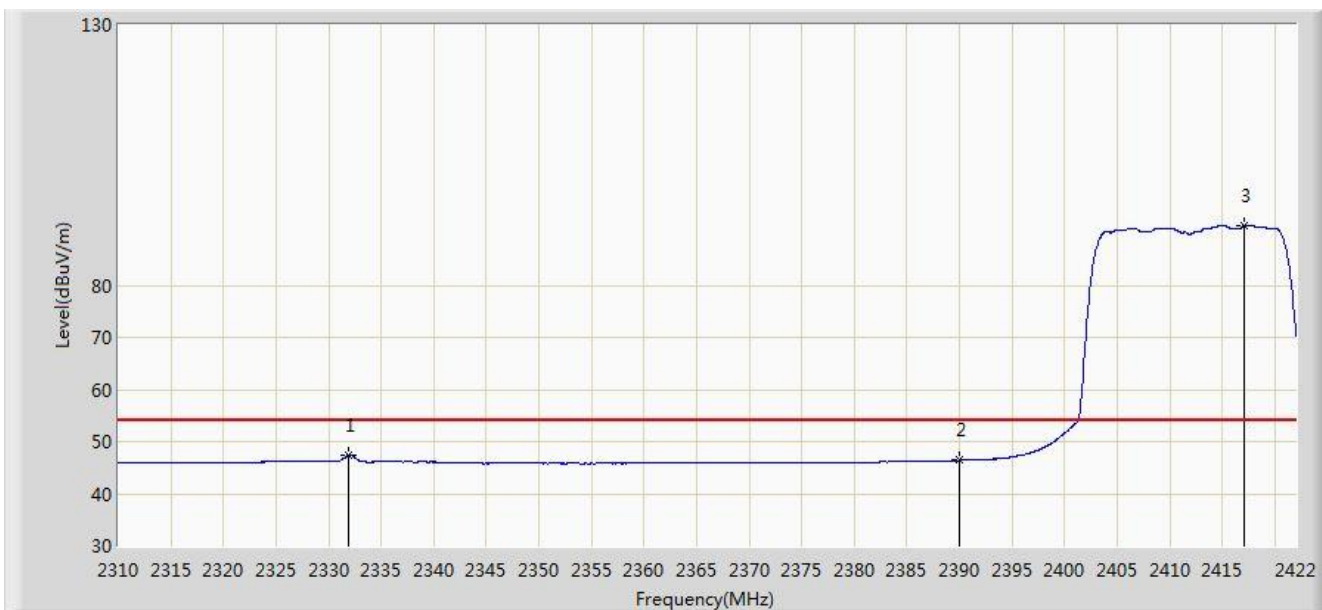


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2377.480        | 59.951                 | 27.743               | -14.049         | 74.000         | 32.208      | PK   |
| 2  |      |      | 2390.000        | 59.350                 | 27.072               | -14.650         | 74.000         | 32.278      | PK   |
| 3  |      | *    | 2408.952        | 101.993                | 69.742               | N/A             | N/A            | 32.250      | PK   |

Test Mode: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2017/03/18 - 03:09 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: E-reader                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz |                          |

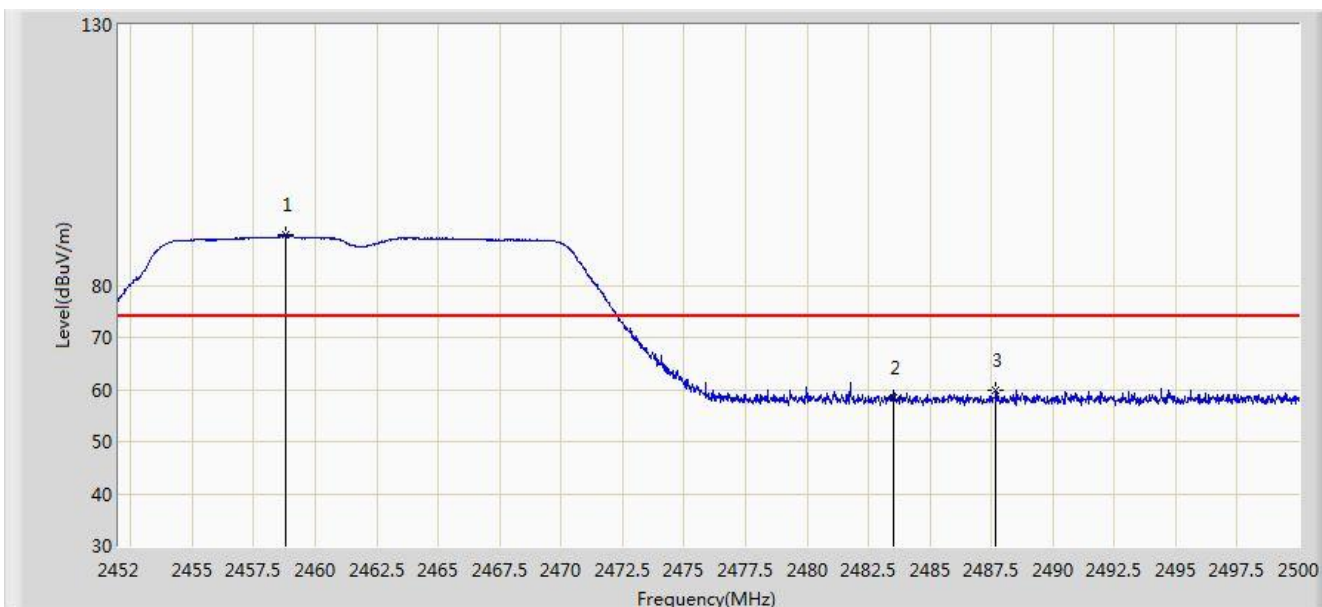


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2331.896        | 47.424                 | 15.072               | -6.576          | 54.000         | 32.352      | AV   |
| 2  |      |      | 2390.000        | 46.381                 | 14.103               | -7.619          | 54.000         | 32.278      | AV   |
| 3  |      | *    | 2417.072        | 91.412                 | 59.193               | N/A             | N/A            | 32.219      | AV   |

Test Mode: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2017/03/18 - 03:10 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Horizontal     |
| EUT: E-reader                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz |                          |

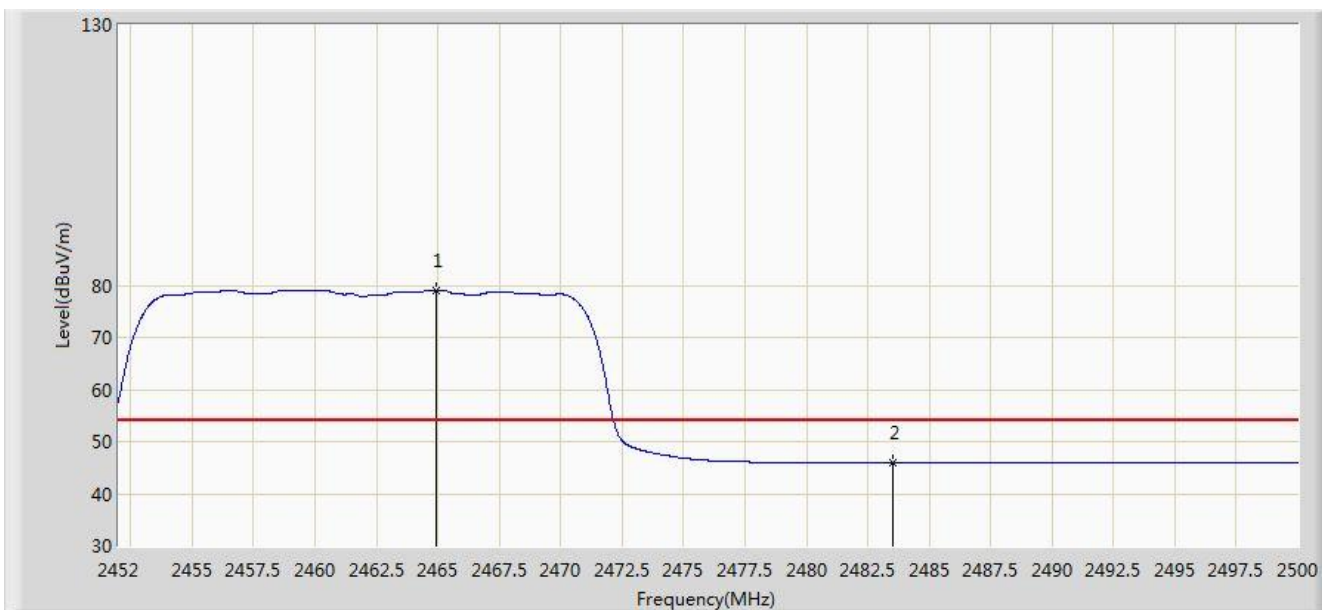


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2458.792        | 89.820                 | 57.596               | N/A             | N/A            | 32.224      | PK   |
| 2  |      |      | 2483.500        | 58.424                 | 26.143               | -15.576         | 74.000         | 32.282      | PK   |
| 3  |      |      | 2487.688        | 59.896                 | 27.600               | -14.104         | 74.000         | 32.295      | PK   |

Test Mode: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2017/03/18 - 03:10 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Horizontal     |
| EUT: E-reader                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz |                          |

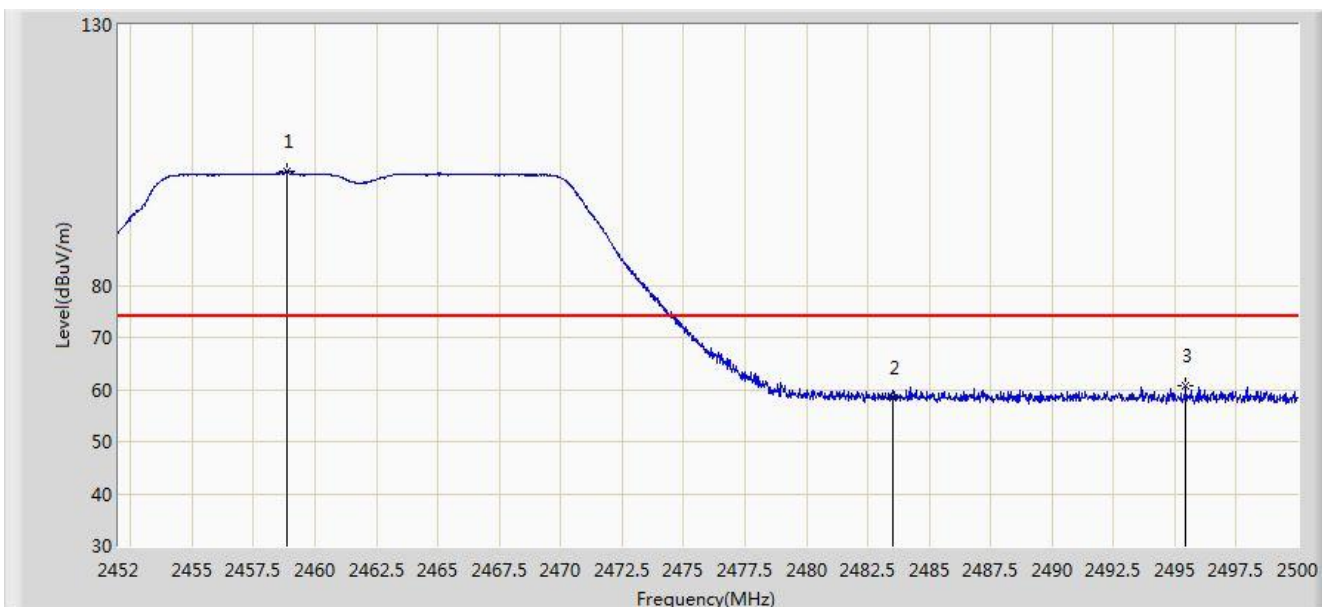


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2464.960        | 79.041                 | 46.799               | N/A             | N/A            | 32.242      | AV   |
| 2  |      |      | 2483.500        | 45.980                 | 13.699               | -8.020          | 54.000         | 32.282      | AV   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2017/03/18 - 03:11 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: E-reader                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz |                          |

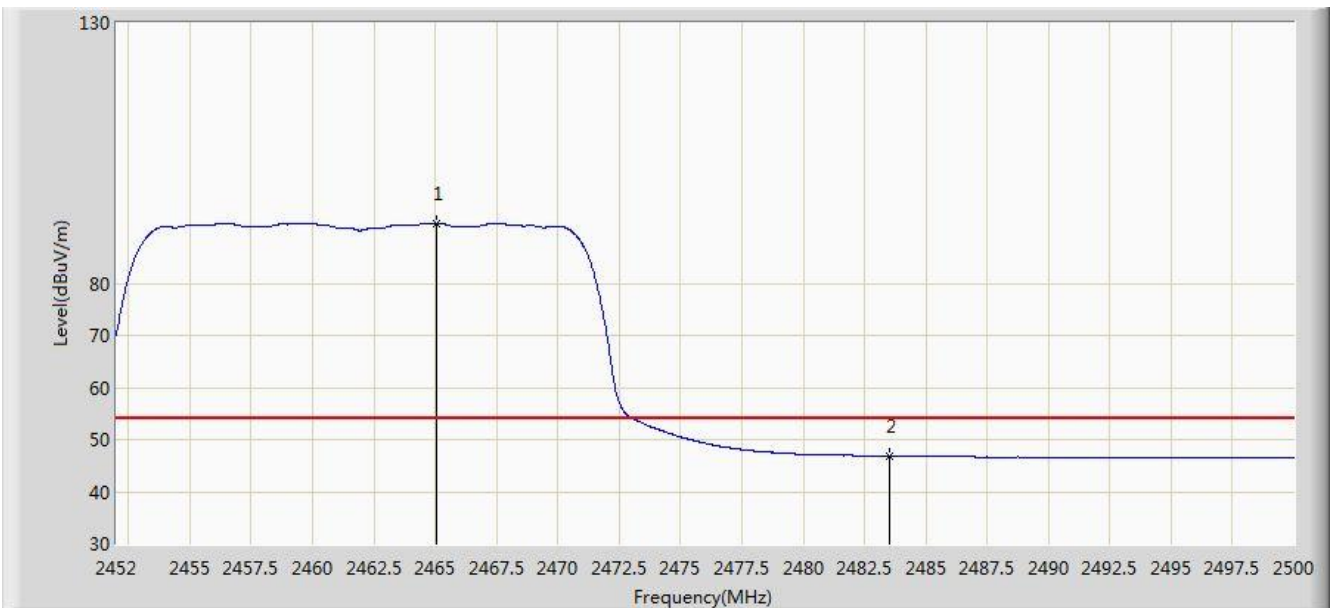


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2458.840        | 101.896                | 69.671               | N/A             | N/A            | 32.225      | PK   |
| 2  |      |      | 2483.500        | 58.513                 | 26.232               | -15.487         | 74.000         | 32.282      | PK   |
| 3  |      |      | 2495.440        | 60.715                 | 28.393               | -13.285         | 74.000         | 32.322      | PK   |

Test Mode: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2017/03/18 - 03:11 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: E-reader                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz |                          |

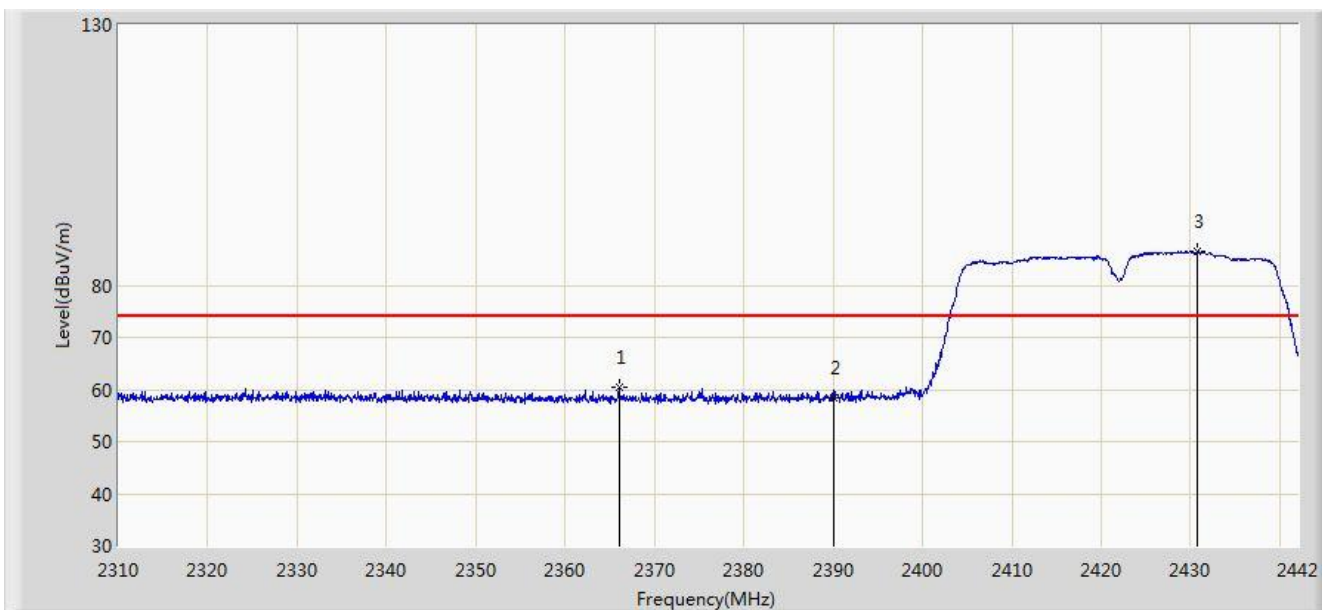


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2465.032        | 91.575                 | 59.333               | N/A             | N/A            | 32.242      | AV   |
| 2  |      |      | 2483.500        | 46.826                 | 14.545               | -7.174          | 54.000         | 32.282      | AV   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2017/03/18 - 03:12 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Horizontal     |
| EUT: E-reader                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz |                          |

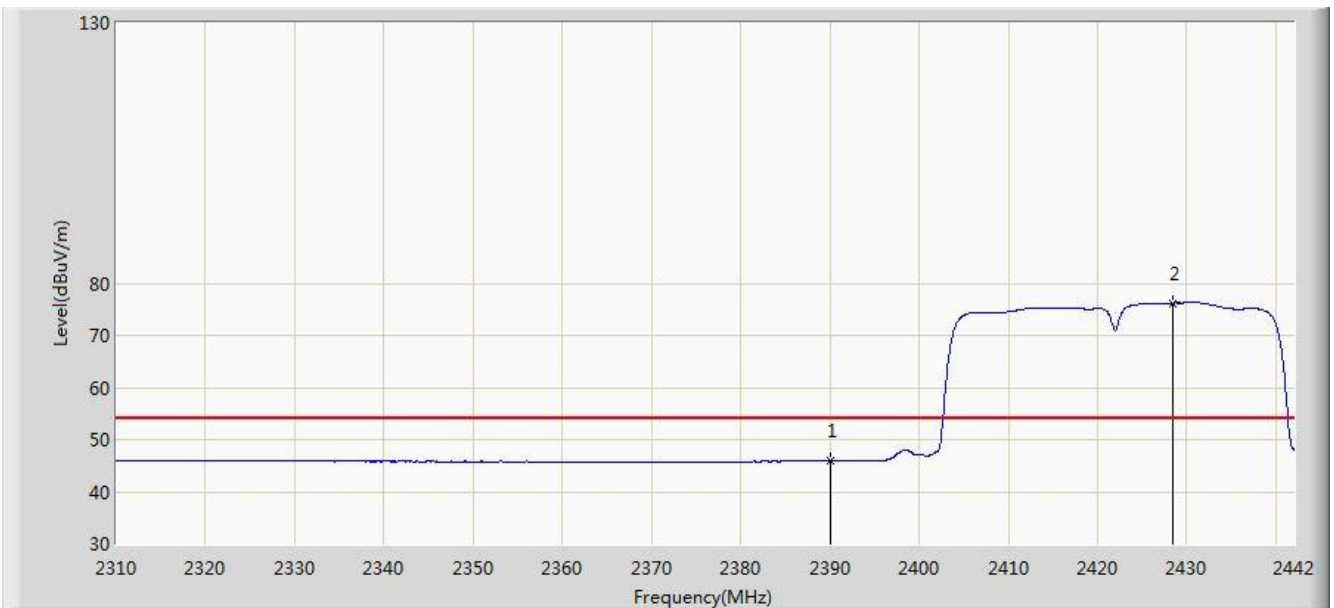


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2366.034        | 60.307                 | 28.073               | -13.693         | 74.000         | 32.234      | PK   |
| 2  |      |      | 2390.000        | 58.457                 | 26.179               | -15.543         | 74.000         | 32.278      | PK   |
| 3  |      | *    | 2430.714        | 86.381                 | 54.208               | N/A             | N/A            | 32.172      | PK   |

Test Mode: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2017/03/18 - 03:13 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Horizontal     |
| EUT: E-reader                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz |                          |

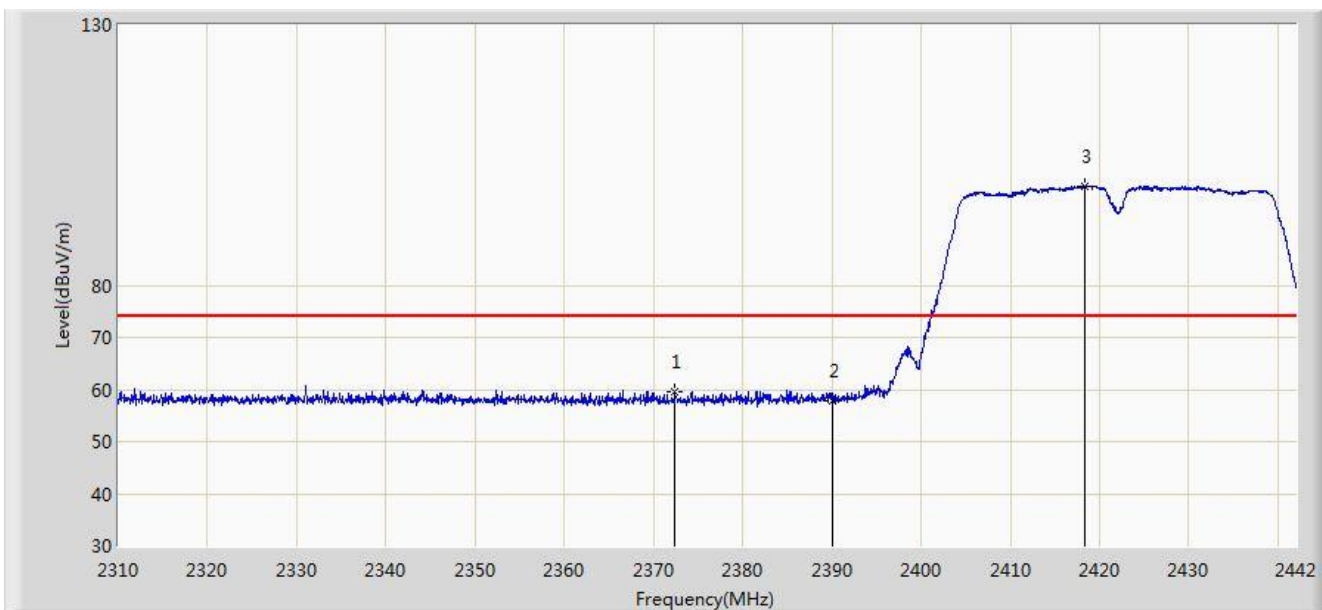


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 45.920                 | 13.642               | -8.080          | 54.000         | 32.278      | AV   |
| 2  |      | *    | 2428.404        | 76.195                 | 44.022               | N/A             | N/A            | 32.173      | AV   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2017/03/18 - 03:13 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: E-reader                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz |                          |

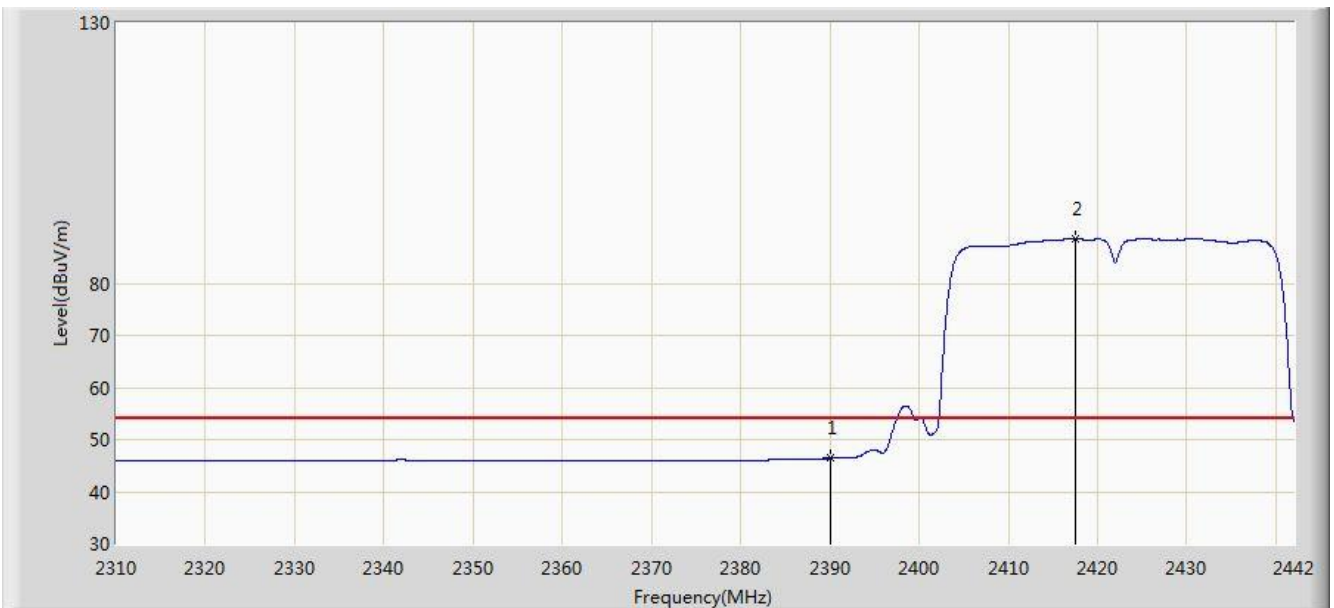


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2372.436        | 59.676                 | 27.458               | -14.324         | 74.000         | 32.217      | PK   |
| 2  |      |      | 2390.000        | 57.930                 | 25.652               | -16.070         | 74.000         | 32.278      | PK   |
| 3  |      | *    | 2418.372        | 98.974                 | 66.761               | N/A             | N/A            | 32.213      | PK   |

Test Mode: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2017/03/18 - 03:14 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: E-reader                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz |                          |

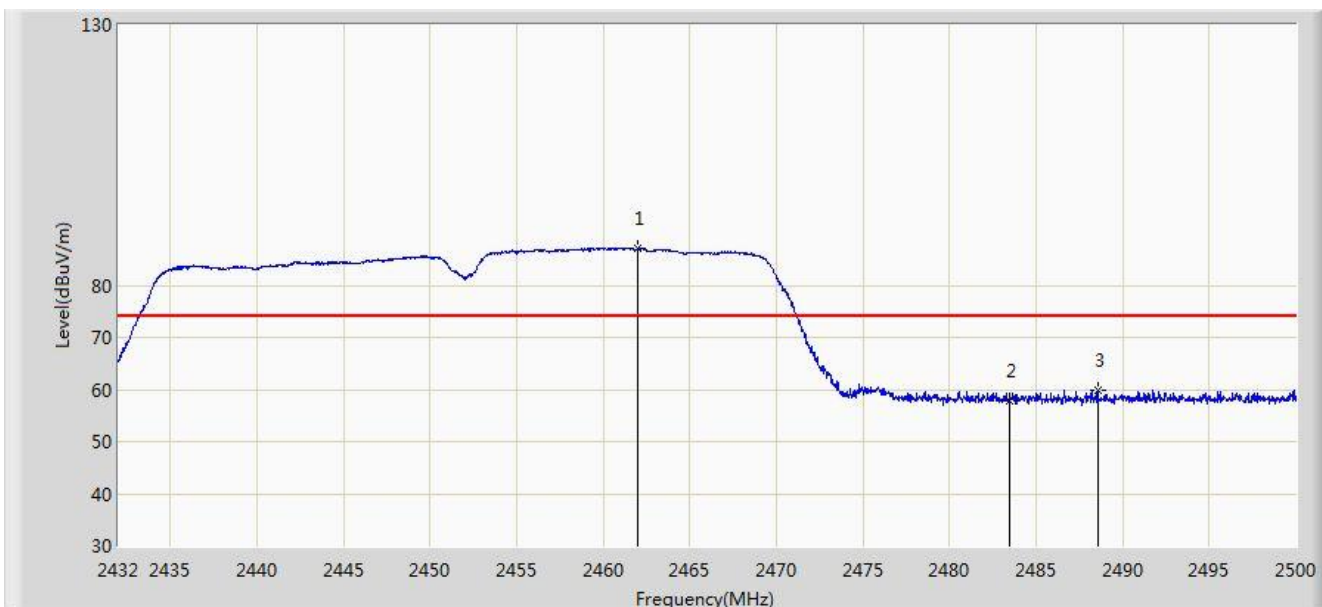


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 46.377                 | 14.099               | -7.623          | 54.000         | 32.278      | AV   |
| 2  |      | *    | 2417.514        | 88.544                 | 56.327               | N/A             | N/A            | 32.217      | AV   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2017/03/18 - 03:15 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Horizontal     |
| EUT: E-reader                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz |                          |

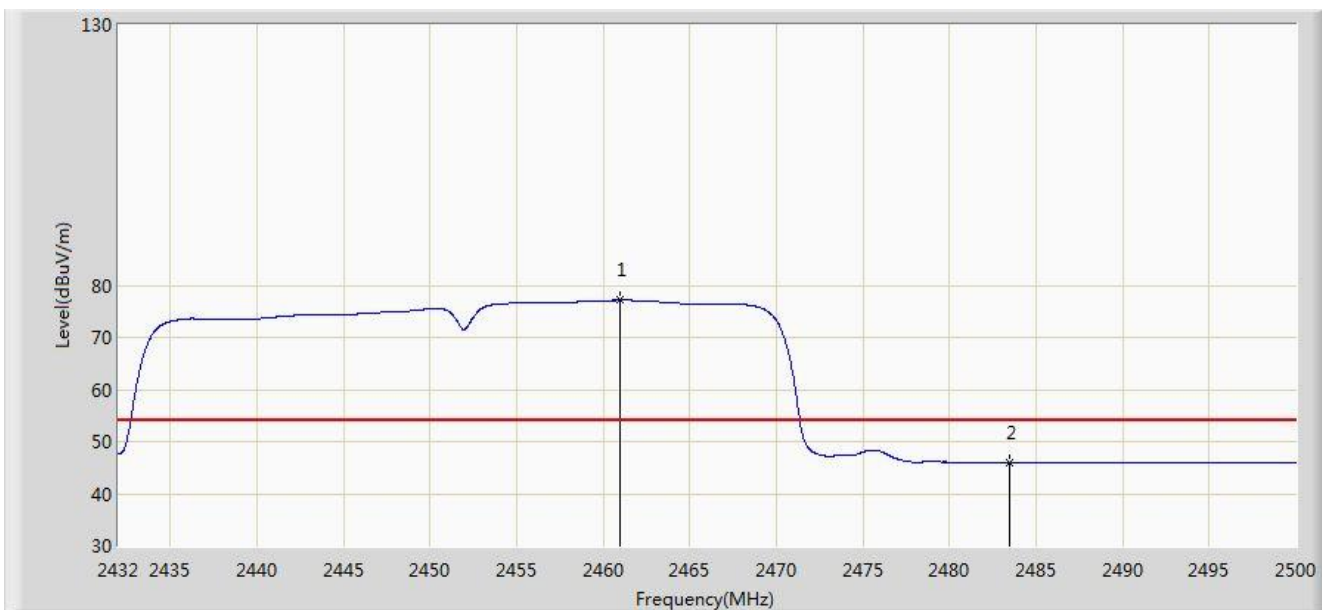


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2461.988        | 86.989                 | 54.751               | N/A             | N/A            | 32.238      | PK   |
| 2  |      |      | 2483.500        | 57.819                 | 25.538               | -16.181         | 74.000         | 32.282      | PK   |
| 3  |      |      | 2488.576        | 59.985                 | 27.686               | -14.015         | 74.000         | 32.299      | PK   |

Test Mode: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2017/03/18 - 03:15 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Horizontal     |
| EUT: E-reader                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz |                          |

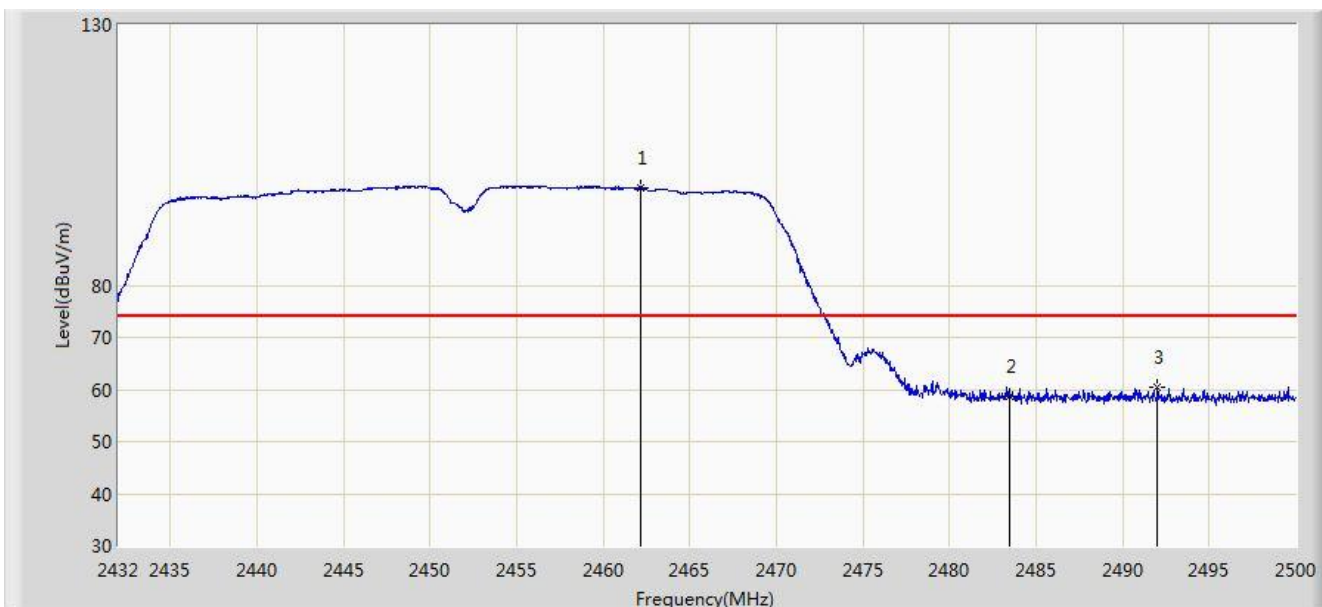


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2460.934        | 77.139                 | 44.905               | N/A             | N/A            | 32.233      | AV   |
| 2  |      |      | 2483.500        | 46.017                 | 13.736               | -7.983          | 54.000         | 32.282      | AV   |

Test Mode: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2017/03/18 - 03:16 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: E-reader                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz |                          |

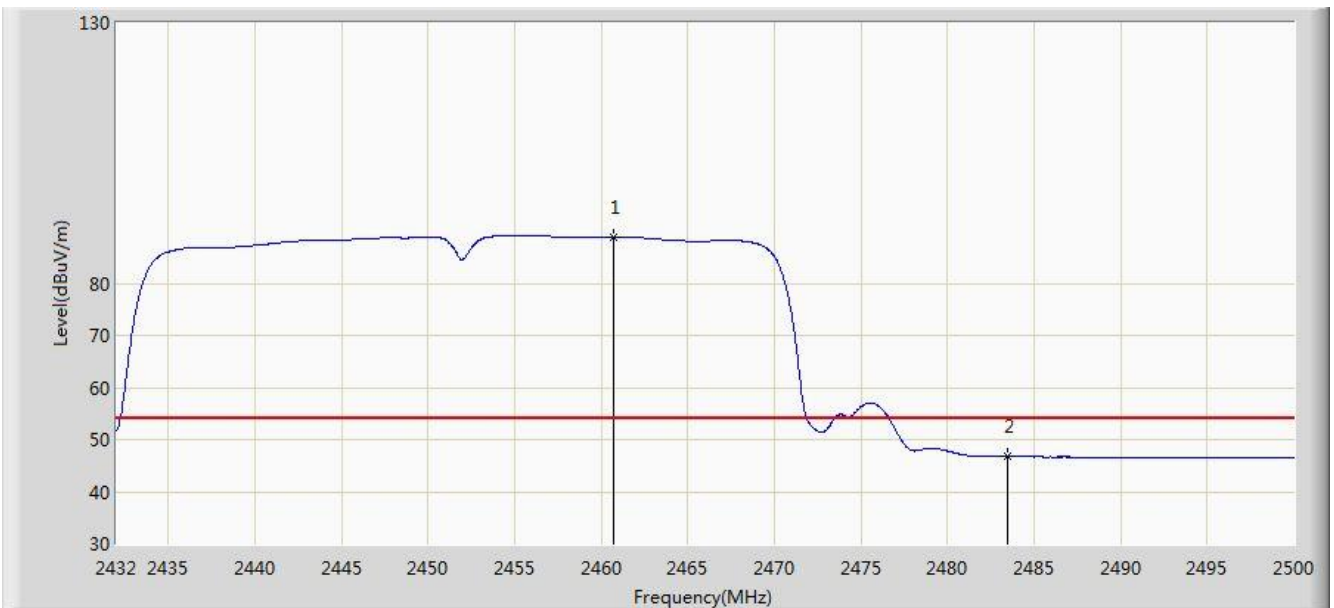


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2462.158        | 98.800                 | 66.562               | N/A             | N/A            | 32.239      | PK   |
| 2  |      |      | 2483.500        | 58.773                 | 26.492               | -15.227         | 74.000         | 32.282      | PK   |
| 3  |      |      | 2492.010        | 60.337                 | 28.026               | -13.663         | 74.000         | 32.311      | PK   |

Test Mode: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC2                                              | Time: 2017/03/18 - 03:16 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Snake Ni       |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: E-reader                                          | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2460.730        | 88.909                 | 56.676               | N/A             | N/A            | 32.233      | AV   |
| 2  |      |      | 2483.500        | 46.783                 | 14.502               | -7.217          | 54.000         | 32.282      | AV   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

## 7.8. AC Conducted Emissions Measurement

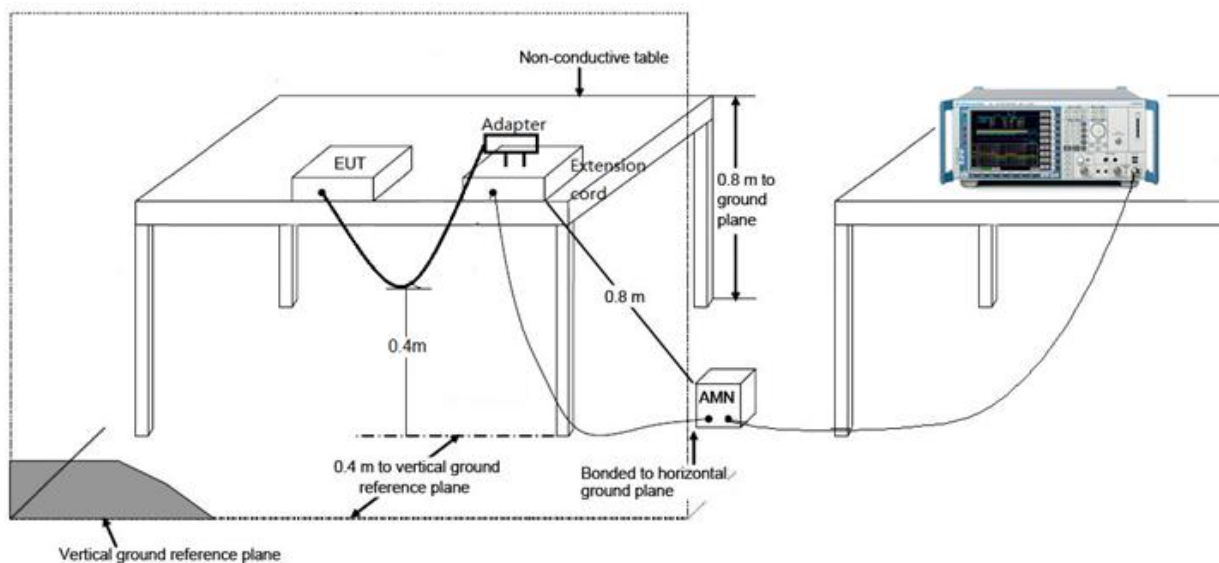
### 7.8.1. Test Limit

| FCC Part 15 Subpart C Paragraph 15.207 Limits |           |           |
|-----------------------------------------------|-----------|-----------|
| Frequency (MHz)                               | QP (dBuV) | AV (dBuV) |
| 0.15 - 0.50                                   | 66 - 56   | 56 - 46   |
| 0.50 - 5.0                                    | 56        | 46        |
| 5.0 - 30                                      | 60        | 50        |

Note 1: The lower limit shall apply at the transition frequencies.

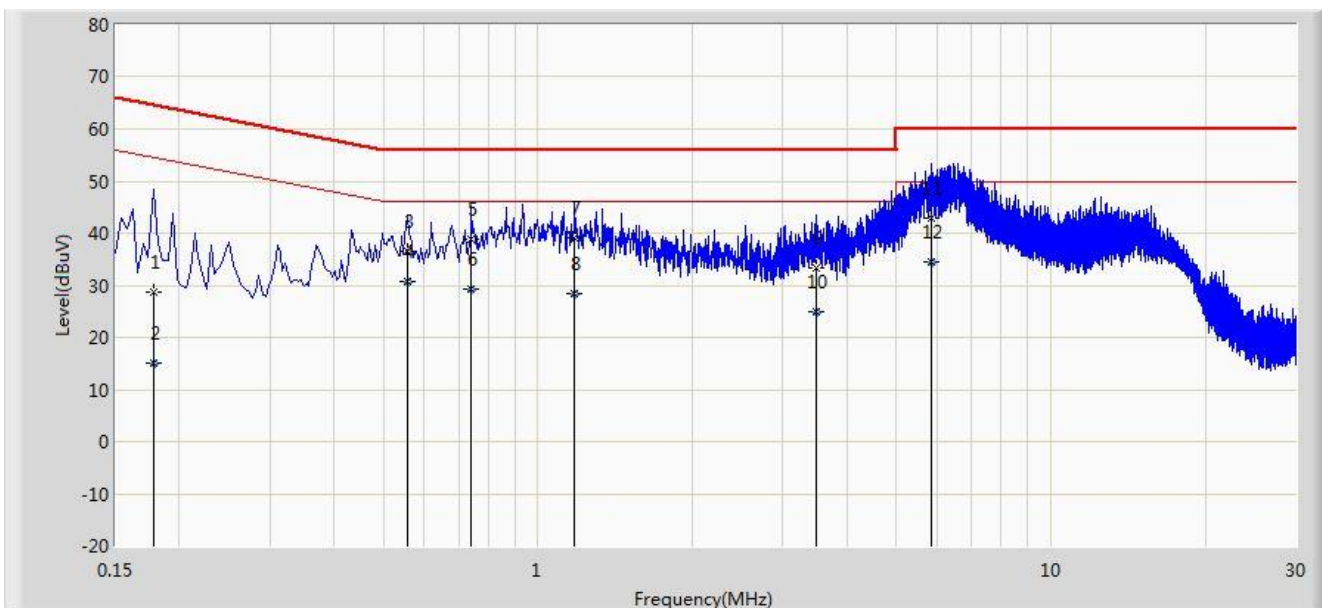
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 7.8.2. Test Setup



### 7.8.3. Test Result

|                                   |                          |
|-----------------------------------|--------------------------|
| Site: SR2                         | Time: 2017/03/09 - 17:26 |
| Limit: FCC_Part15.207_CE_AC Power | Engineer: Bruce Wang     |
| Probe: ENV216_101683_Filter On    | Polarity: Line           |
| EUT: E-reader                     | Power: AC 120V/60Hz      |
| Test Mode: Mode 1                 |                          |

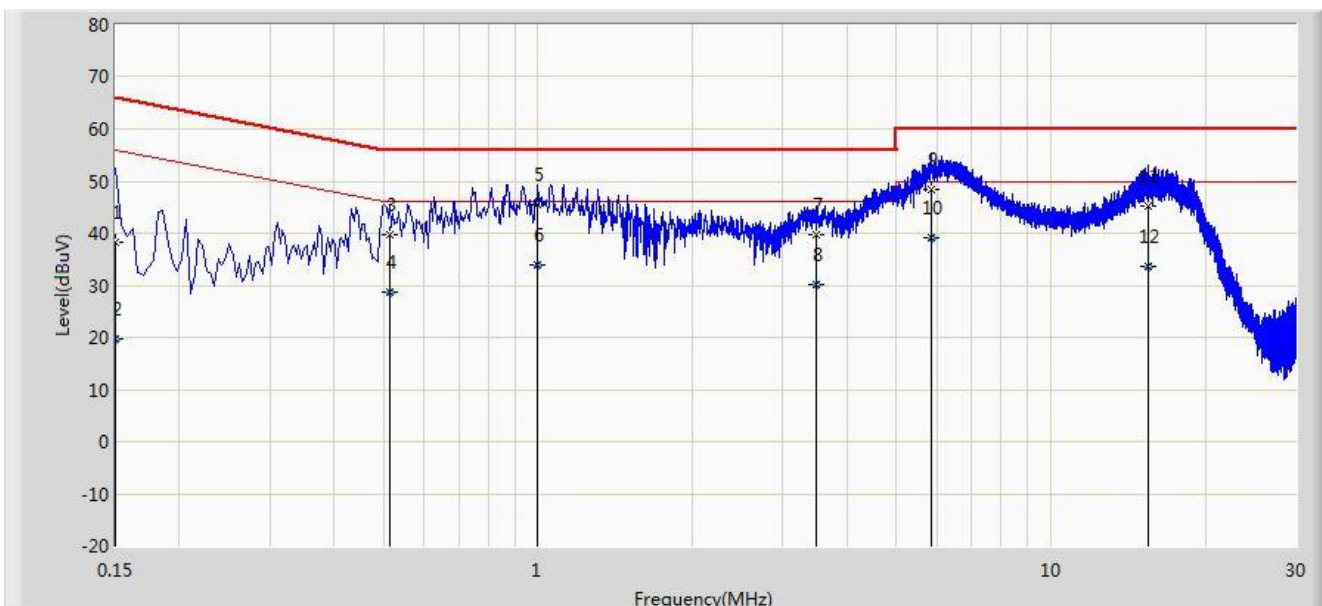


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|----|------|------|-----------------|----------------------|----------------------|-----------------|--------------|-------------|------|
| 1  |      |      | 0.178           | 28.750               | 18.692               | -35.829         | 64.578       | 10.058      | QP   |
| 2  |      |      | 0.178           | 15.181               | 5.123                | -39.397         | 54.578       | 10.058      | AV   |
| 3  |      |      | 0.558           | 36.561               | 26.424               | -19.439         | 56.000       | 10.137      | QP   |
| 4  |      | *    | 0.558           | 30.732               | 20.595               | -15.268         | 46.000       | 10.137      | AV   |
| 5  |      |      | 0.742           | 38.848               | 28.807               | -17.152         | 56.000       | 10.041      | QP   |
| 6  |      |      | 0.742           | 29.266               | 19.225               | -16.734         | 46.000       | 10.041      | AV   |
| 7  |      |      | 1.178           | 39.084               | 29.182               | -16.916         | 56.000       | 9.902       | QP   |
| 8  |      |      | 1.178           | 28.420               | 18.518               | -17.580         | 46.000       | 9.902       | AV   |
| 9  |      |      | 3.486           | 33.223               | 23.316               | -22.777         | 56.000       | 9.907       | QP   |
| 10 |      |      | 3.486           | 24.790               | 14.883               | -21.210         | 46.000       | 9.907       | AV   |
| 11 |      |      | 5.834           | 43.035               | 32.939               | -16.965         | 60.000       | 10.097      | QP   |
| 12 |      |      | 5.834           | 34.459               | 24.362               | -15.541         | 50.000       | 10.097      | AV   |

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

|                                   |                          |
|-----------------------------------|--------------------------|
| Site: SR2                         | Time: 2017/03/09 - 17:31 |
| Limit: FCC_Part15.207_CE_AC Power | Engineer: Bruce Wang     |
| Probe: ENV216_101683_Filter On    | Polarity: Neutral        |
| EUT: E-reader                     | Power: AC 120V/60Hz      |
| Test Mode: Mode 1                 |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|----|------|------|-----------------|----------------------|----------------------|-----------------|--------------|-------------|------|
| 1  |      |      | 0.150           | 38.282               | 27.140               | -27.718         | 66.000       | 11.142      | QP   |
| 2  |      |      | 0.150           | 19.698               | 8.556                | -36.302         | 56.000       | 11.142      | AV   |
| 3  |      |      | 0.514           | 39.821               | 29.645               | -16.179         | 56.000       | 10.176      | QP   |
| 4  |      |      | 0.514           | 28.780               | 18.604               | -17.220         | 46.000       | 10.176      | AV   |
| 5  |      | *    | 0.998           | 45.598               | 35.688               | -10.402         | 56.000       | 9.910       | QP   |
| 6  |      |      | 0.998           | 34.048               | 24.138               | -11.952         | 46.000       | 9.910       | AV   |
| 7  |      |      | 3.482           | 39.626               | 29.714               | -16.374         | 56.000       | 9.912       | QP   |
| 8  |      |      | 3.482           | 30.220               | 20.307               | -15.780         | 46.000       | 9.912       | AV   |
| 9  |      |      | 5.850           | 48.521               | 38.413               | -11.479         | 60.000       | 10.108      | QP   |
| 10 |      |      | 5.850           | 39.161               | 29.053               | -10.839         | 50.000       | 10.108      | AV   |
| 11 |      |      | 15.434          | 45.128               | 35.009               | -14.872         | 60.000       | 10.119      | QP   |
| 12 |      |      | 15.434          | 33.585               | 23.466               | -16.415         | 50.000       | 10.119      | AV   |

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

## 8. CONCLUSION

The data collected relate only the item(s) tested and show that the **E-reader FCC ID: XR3-C67** is in compliance with Part 15C of the FCC Rules.