

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                |                                                                                                                                                 |                             |                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------|
| <b>Prüfbericht-Nr.:</b><br><i>Test report No.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>50049186 002</b>                                                                                                                                            | <b>Auftrags-Nr.:</b><br><i>Order No.:</i>                                                                                                       | <b>164062055</b>            | <b>Seite 1 von 21</b><br><i>Page 1 of 21</i> |
| <b>Kunden-Referenz-Nr.:</b><br><i>Client reference No.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>466337</b>                                                                                                                                                  | <b>Auftragsdatum:</b><br><i>Order date.:</i>                                                                                                    | <b>28.04.2016</b>           |                                              |
| <b>Auftraggeber:</b><br><i>Client:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Lightcomm Technology Co., Ltd.</b><br>RM 1808 18/F, FO TAN INDUSTRIAL CENTRE, NOS. 26-28 AU PUI WAN STREET, FO TAN SHATIN NEW TERRITORIES HONG KONG         |                                                                                                                                                 |                             |                                              |
| <b>Prüfgegenstand:</b><br><i>Test item:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>7 Inch Quad Core Tablet</b>                                                                                                                                 |                                                                                                                                                 |                             |                                              |
| <b>Bezeichnung / Typ-Nr.:</b><br><i>Identification / Type No.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>MID721-RB, DL721-RB, DL721-** (** means different color)</b><br>(DIGILAND)                                                                                  |                                                                                                                                                 |                             |                                              |
| <b>Auftrags-Inhalt:</b><br><i>Order content:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>FCC approval</b>                                                                                                                                            |                                                                                                                                                 |                             |                                              |
| <b>Prüfgrundlage:</b><br><i>Test specification:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>CFR47 FCC Part 15: Subpart C Section 15.247</b><br><b>CFR47 FCC Part 15: Subpart C Section 15.207</b><br><b>CFR47 FCC Part 15: Subpart C Section 15.209</b> |                                                                                                                                                 |                             |                                              |
| <b>Wareneingangsdatum:</b><br><i>Date of receipt:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>01.06.2016</b>                                                                                                                                              | <b>Refer to photo documents</b>                                                                                                                 |                             |                                              |
| <b>Prüfmuster-Nr.:</b><br><i>Test sample No.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>A000368549-007</b>                                                                                                                                          |                                                                                                                                                 |                             |                                              |
| <b>Prüfzeitraum:</b><br><i>Testing period:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>12.06.2016 - 15.06.2016</b>                                                                                                                                 |                                                                                                                                                 |                             |                                              |
| <b>Ort der Prüfung:</b><br><i>Place of testing:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Emtek (Shenzhen ) Co., Ltd.</b>                                                                                                                             |                                                                                                                                                 |                             |                                              |
| <b>Prüflaboratorium:</b><br><i>Testing laboratory:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>TÜV Rheinland (Shenzhen) Co., Ltd.</b>                                                                                                                      |                                                                                                                                                 |                             |                                              |
| <b>Prüfergebnis*:</b><br><i>Test result*:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Pass</b>                                                                                                                                                    |                                                                                                                                                 |                             |                                              |
| <b>geprüft von / tested by:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                | <b>kontrolliert von / reviewed by:</b>                                                                                                          |                             |                                              |
| <br><b>08.07.2016</b> <b>Andy Yan / Senior Project Engineer</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                | <br><b>08.07.2016</b> <b>Sam Lin / Technical Certifier</b> |                             |                                              |
| <b>Datum</b><br><i>Date</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Name/Stellung</b><br><i>Name/Position</i>                                                                                                                   | <b>Unterschrift</b><br><i>Signature</i>                                                                                                         | <b>Datum</b><br><i>Date</i> | <b>Name/Stellung</b><br><i>Name/Position</i> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                |                                                                                                                                                 |                             |                                              |
| <b>Sonstiges / Other:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                |                                                                                                                                                 |                             |                                              |
| Only evaluate the 2.4GHz Wi-Fi 802.11 b/g/n(HT20) function in this test report.<br>FCC ID: XMF-MID721RB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                |                                                                                                                                                 |                             |                                              |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br><i>Condition of the test item at delivery:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                | <b>Prüfmuster vollständig und unbeschädigt</b><br><i>Test item complete and undamaged:</i>                                                      |                             |                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                |                                                                                                                                                 |                             |                                              |
| <b>* Legende:</b> 1 = sehr gut                      2 = gut                      3 = befriedigend                      4 = ausreichend                      5 = mangelhaft<br>P(ass) = entspricht o.g. Prüfgrundlage(n)    F(ail) = entspricht nicht o.g. Prüfgrundlage(n)    N/A = nicht anwendbar    N/T = nicht getestet<br><b>Legend:</b> 1 = very good                      2 = good                      3 = satisfactory                      4 = sufficient                      5 = poor<br>P(ass) = passed a.m. test specifications(s)    F(ail) = failed a.m. test specifications(s)    N/A = not applicable    N/T = not tested |                                                                                                                                                                |                                                                                                                                                 |                             |                                              |
| <b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b><br><i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>                                                                                                                                                                                  |                                                                                                                                                                |                                                                                                                                                 |                             |                                              |

V04

## ***Test Summary***

**5.1.1 ANTENNA REQUIREMENT**

*RESULT: Pass*

**5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER**

*RESULT: Pass*

**5.1.3 CONDUCTED POWER SPECTRAL DENSITY**

*RESULT: Pass*

**5.1.4 6dB BANDWIDTH**

*RESULT: Pass*

**5.1.5 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH**

*RESULT: Pass*

**5.1.6 RADIATED SPURIOUS EMISSION**

*RESULT: Pass*

## Contents

|              |                                                                         |           |
|--------------|-------------------------------------------------------------------------|-----------|
| <b>1</b>     | <b>GENERAL REMARKS .....</b>                                            | <b>4</b>  |
| <b>1.1</b>   | <b>COMPLEMENTARY MATERIALS .....</b>                                    | <b>4</b>  |
| <b>2</b>     | <b>TEST SITES .....</b>                                                 | <b>4</b>  |
| <b>2.1</b>   | <b>TEST FACILITIES .....</b>                                            | <b>4</b>  |
| <b>2.2</b>   | <b>LIST OF TEST AND MEASUREMENT INSTRUMENTS.....</b>                    | <b>5</b>  |
| <b>2.3</b>   | <b>TRACEABILITY .....</b>                                               | <b>6</b>  |
| <b>2.4</b>   | <b>CALIBRATION .....</b>                                                | <b>6</b>  |
| <b>2.5</b>   | <b>MEASUREMENT UNCERTAINTY.....</b>                                     | <b>6</b>  |
| <b>2.6</b>   | <b>LOCATION OF ORIGINAL DATA.....</b>                                   | <b>6</b>  |
| <b>2.7</b>   | <b>STATUS OF FACILITY USED FOR TESTING.....</b>                         | <b>6</b>  |
| <b>3</b>     | <b>GENERAL PRODUCT INFORMATION .....</b>                                | <b>7</b>  |
| <b>3.1</b>   | <b>PRODUCT FUNCTION AND INTENDED USE.....</b>                           | <b>7</b>  |
| <b>3.2</b>   | <b>RATINGS AND SYSTEM DETAILS .....</b>                                 | <b>7</b>  |
| <b>3.3</b>   | <b>INDEPENDENT OPERATION MODES .....</b>                                | <b>8</b>  |
| <b>3.4</b>   | <b>NOISE GENERATING AND NOISE SUPPRESSING PARTS.....</b>                | <b>8</b>  |
| <b>3.5</b>   | <b>SUBMITTED DOCUMENTS.....</b>                                         | <b>9</b>  |
| <b>4</b>     | <b>TEST SET-UP AND OPERATION MODES .....</b>                            | <b>10</b> |
| <b>4.1</b>   | <b>PRINCIPLE OF CONFIGURATION SELECTION .....</b>                       | <b>10</b> |
| <b>4.2</b>   | <b>TEST OPERATION AND TEST SOFTWARE.....</b>                            | <b>10</b> |
| <b>4.3</b>   | <b>SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT.....</b>                 | <b>10</b> |
| <b>4.4</b>   | <b>COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE .....</b>                  | <b>10</b> |
| <b>4.5</b>   | <b>TEST SETUP DIAGRAM .....</b>                                         | <b>11</b> |
| <b>5</b>     | <b>TEST RESULTS .....</b>                                               | <b>13</b> |
| <b>5.1</b>   | <b>TRANSMITTER REQUIREMENT &amp; TEST SUITES .....</b>                  | <b>13</b> |
| <b>5.1.1</b> | <b>Antenna Requirement .....</b>                                        | <b>13</b> |
| <b>5.1.2</b> | <b>Maximum Peak Conducted Output Power .....</b>                        | <b>14</b> |
| <b>5.1.3</b> | <b>Conducted Power Spectral Density .....</b>                           | <b>15</b> |
| <b>5.1.4</b> | <b>6dB Bandwidth .....</b>                                              | <b>16</b> |
| <b>5.1.5</b> | <b>Conducted Spurious Emissions Measured in 100 kHz Bandwidth .....</b> | <b>17</b> |
| <b>5.1.6</b> | <b>Radiated Spurious Emission .....</b>                                 | <b>18</b> |
| <b>6</b>     | <b>PHOTOGRAPHS OF THE TEST SET-UP .....</b>                             | <b>19</b> |
| <b>7</b>     | <b>LIST OF TABLES.....</b>                                              | <b>21</b> |
| <b>8</b>     | <b>LIST OF PHOTOGRAPHS .....</b>                                        | <b>21</b> |

# 1 General Remarks

## 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix C: Test Results of Wi-Fi 802.11b/g/n(HT20) of Conducted Testing

Appendix D: Test Results of Wi-Fi 802.11b/g/n(HT20) of Radiated Testing

# 2 Test Sites

## 2.1 Test Facilities

**Emtek (Shenzhen ) Co., Ltd.**

Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen Guangdong, China

FCC Registration No.: 406365

Test site Industry Canada No.: 4480A-2

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

## 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

**Emtek (Shenzhen ) Co., Ltd.**

| <b>Radio Spectrum Test</b>                       |                     |                  |                         |                   |
|--------------------------------------------------|---------------------|------------------|-------------------------|-------------------|
| <b>Equipment</b>                                 | <b>Manufacturer</b> | <b>Model No.</b> | <b>Serial No.</b>       | <b>Cal. Until</b> |
| Spectrum Analyzer                                | R&S                 | FSV40            | 132.1-3008K39-100967-AP | 17.05.2017        |
| Spectrum Analyzer                                | Agilent             | E4407B           | 88156318                | 17.05.2017        |
| Spectrum Analyzer                                | Agilent             | N9010A           | My53470879              | 17.05.2017        |
| <b>Conducted Emission</b>                        |                     |                  |                         |                   |
| <b>Equipment</b>                                 | <b>Manufacturer</b> | <b>Model No.</b> | <b>Serial No.</b>       | <b>Cal. Until</b> |
| Test Receiver                                    | R&S                 | ESCI             | 26115-010-0027          | 17.05.2017        |
| L.I.S.N.                                         | R&S                 | ENV216           | 101161                  | 17.05.2017        |
| 50Ω Coaxial Switch                               | Anritsu             | MP59B            | 6100175589              | 17.05.2017        |
| Voltage Probe                                    | R&S                 | ESH2-Z3          | 100122                  | 17.05.2017        |
| <b>Radiated Emission &amp; Spurious Emission</b> |                     |                  |                         |                   |
| <b>Equipment</b>                                 | <b>Manufacturer</b> | <b>Model No.</b> | <b>Serial No.</b>       | <b>Cal. Until</b> |
| EMI Test Receiver                                | R&S                 | ESU              | 1302.6005.26            | 17.05.2017        |
| Loop Antenna                                     | Schwarzbeck         | FMZB 1519        | 1519-012                | 17.05.2017        |
| Pre-Amplifier                                    | HP                  | 8447F            | 2944A07999              | 17.05.2017        |
| Bilog Antenna                                    | Schwarzbeck         | VULB9163         | 142                     | 17.05.2017        |
| Pre-Amplifier                                    | A.H.                | PAM-0126         | 1415261                 | 17.05.2017        |
| Horn Antenna                                     | Schwarzbeck         | BBHA 9120        | 707                     | 17.05.2017        |
| Horn Antenna                                     | Schwarzbeck         | BBHA 9170        | BBHA9170399             | 17.05.2017        |
| Cable                                            | N/A                 | 3M SF104-26.5    | 295838/4                | 17.05.2017        |
| Cable                                            | N/A                 | 6M SF104-26.5    | 295840/4                | 17.05.2017        |
| Cable                                            | Schwarzbeck         | AK9513           | ACRX1                   | 17.05.2017        |
| Cable                                            | Rosenberger         | N/A              | FP2RX2                  | 17.05.2017        |
| Cable                                            | Schwarzbeck         | AK9513           | CRPX1                   | 17.05.2017        |
| Cable                                            | Schwarzbeck         | AK9513           | CRRX2                   | 17.05.2017        |
| Cable                                            | H+B                 | 0.5M SF104-26.5  | 289147/4                | 17.05.2017        |
| Cable                                            | H+B                 | 3M SF104-26.5    | 295838/4                | 17.05.2017        |
| Cable                                            | H+B                 | 6M SF104-26.5    | 295840/4                | 17.05.2017        |

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table

| Item                   | Extended Uncertainty |
|------------------------|----------------------|
| Radio Spectrum         | $\pm 1.0$ dB         |
| All emission, radiated | $\pm 3.0$ dB         |
| Conducted Emission     | $\pm 2.0$ dB         |
| Radiated Emission      | $\pm 2.0$ dB         |
| Antenna Port Emission  | $\pm 3.0$ dB         |
| Temperature            | $\pm 0.5$ °C         |
| Humidity               | $\pm 3.0$ %          |

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix C & D of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

The Emtek (Shenzhen ) Co., Ltd. Test facility located at Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen Guangdong, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

### 3 General Product Information

#### 3.1 Product Function and Intended Use

The EUT is a '7 Inch Quad Core Tablet' device. It supports Bluetooth 4.0 (Dual mode) and 2.4GHz Wi-Fi 802.11 b/g/n(HT20) wireless technology.

According to the declaration of the applicant, the electrical circuit design, PCB layout and components used are identical for all models, only the model No. and appearance are different.

For details refer to the User Manual, Technical Description and Circuit Diagram.

#### 3.2 Ratings and System Details

**Table 2: Technical Specification of EUT**

| Technical Specification     | Value                                                                                                    |
|-----------------------------|----------------------------------------------------------------------------------------------------------|
| Kind of Equipment           | 7 Inch Quad Core Tablet                                                                                  |
| Type Designation            | MID721-RB, DL721-RB, DL721-** (** means different color)                                                 |
| Trade Mark                  | DIGILAND                                                                                                 |
| FCC ID                      | XMF-MID721RB                                                                                             |
| Operating Frequency         | 802.11b/g/n(HT20): 2412 MHz to 2462 MHz                                                                  |
| Operating Temperature Range | 0 °C ~ +40 °C                                                                                            |
| Operating Voltage           | DC 3.7V 2700mAh via internal rechargeable Li-Poly battery<br>DC 5.0V 1.5A via AC/DC adapter for charging |
| Testing Voltage             | DC 3.7V 2700mAh via internal rechargeable Li-Poly battery<br>DC 5.0V 1.5A via AC/DC adapter for charging |
| Adapter                     | Model: TEKA006-0501500UKU<br>Input: AC 100-240V ~ 50/60Hz 0.3A Max.<br>Output: DC 5.0V ~ 1.5A            |
| Type of Modulation          | 802.11b: DSSS(DBPSK/DQPSK/CCK)<br>802.11g/n: OFDM(BPSK/QPSK/16QAM/64QAM)                                 |
| Data Rate                   | 802.11b: 1/2/5.5/11 Mbps<br>802.11g: 6/9/12/18/24/36/48/54 Mbps<br>802.11n(HT20): MCS0 ~ MCS7 Mbps       |
| Channel Number              | 802.11b/g/n(HT20): 11 channels                                                                           |
| Channel Separation          | 5 MHz                                                                                                    |
| Wireless Technology         | Wi-Fi 802.11b/g/n                                                                                        |
| Antenna Type                | PIFA Antenna                                                                                             |
| Antenna Gain                | 1.14 dBi                                                                                                 |

**Table 3: RF Channel and Frequency of Wi-Fi**

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

Remark:

1. Test frequencies are lowest channel: 2412 MHz, middle channel: 2437 MHz and highest channel: 2462 MHz for 802.11b/g/n(HT20)
2. Test frequencies are lowest channel: 2422 MHz, middle channel: 2437 MHz and highest channel: 2452 MHz for 802.11n(HT40)

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wi-Fi mode (2.4 GHz)
  1. Transmitting
    - a. Low Channel
    - b. Middle Channel
    - c. High Channel
  2. Receiving
    - a. Low Channel
    - b. Middle Channel
    - c. High Channel
- B. On, Wi-Fi connecting mode
- C. Off

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.



### 3.5 Submitted Documents

- |                              |                  |
|------------------------------|------------------|
| - Application Form           | - Parts List     |
| - Block Diagram              | - PCB Layout     |
| - ID Label and Location Info | - Photo Document |
| - Model Difference Letter    | - Schematics     |
| - Operation Description      | - User Manual    |

## 4 Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

**Radio Spectrum:** The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model MID721-RB in this report.

### 4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

| Description | Manufacturer | Model      | S/N        | Rating           |
|-------------|--------------|------------|------------|------------------|
| Notebook    | Lenovo       | WB0205140E | WB06355728 | 120-240V/50-60Hz |

### 4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

## 4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

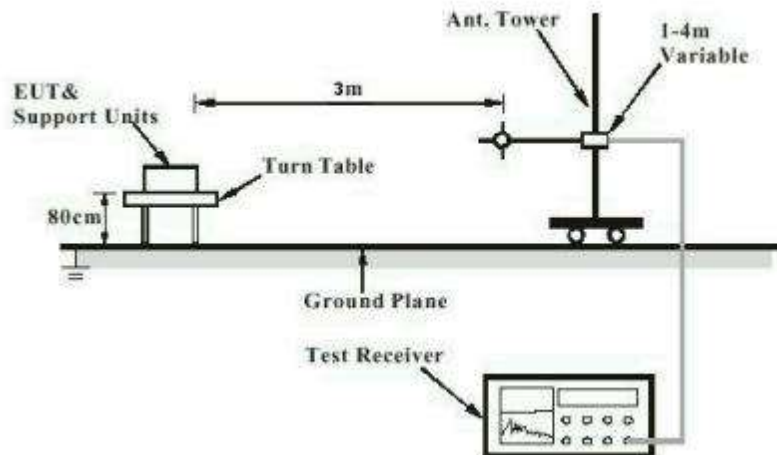
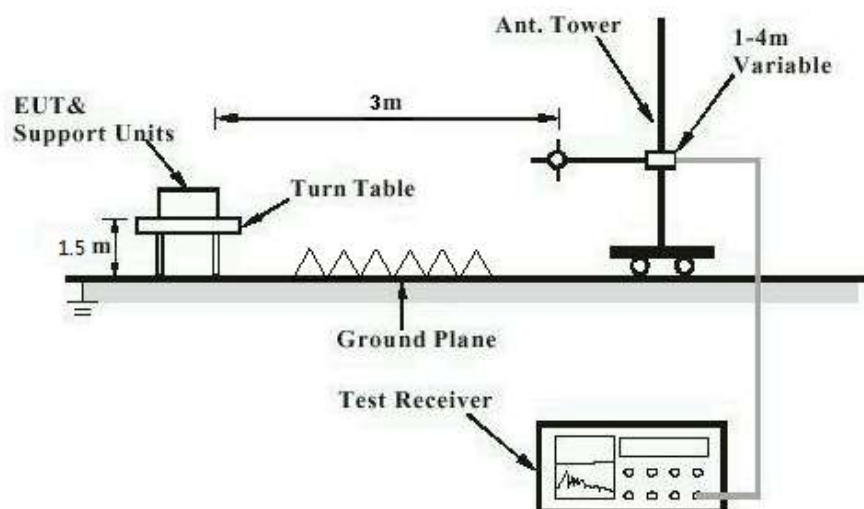
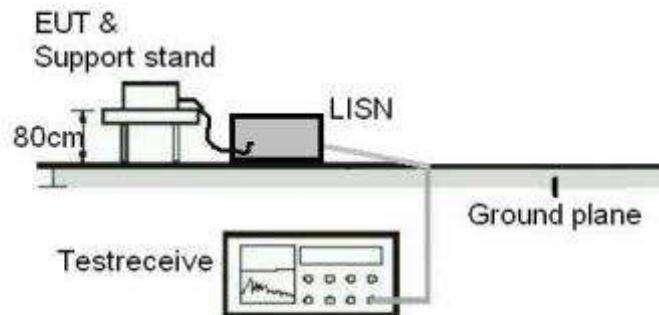


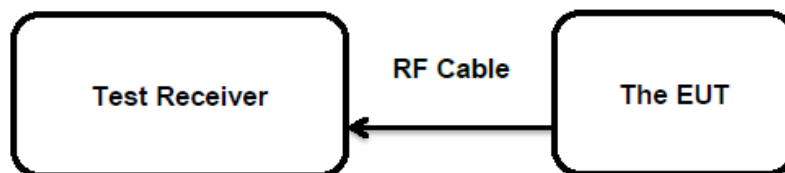
Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



### Diagram of Measurement Configuration for Mains Conduction Measurement



### Diagram of Measurement Configuration for Conducted Transmitter Measurement



## 5 Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

**RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.247(b)(4) and Part 15.203

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 1.14 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

## 5.1.2 Maximum Peak Conducted Output Power

**RESULT:**
**Pass**
**Test Specification**

Test standard : FCC Part 15.247(b)(1)&(3)  
 Basic standard : ANSI C63.10: 2013  
 Limits : < 1.0 Watts  
 Kind of test site : Shielded Room

**Test Setup**

Date of testing : 12.06.2016  
 Input voltage : DC 3.7V 2700mAh via internal rechargeable Li-Poly battery  
 Operation mode : A.1  
 Test channel : Low / Middle / High  
 Ambient temperature : 24 °C  
 Relative humidity : 50 %  
 Atmospheric pressure : 101 kPa

**Table 5: Test Result of Maximum Peak Conducted Output Power**

| Test Mode              | Data Rate | Frequency (MHz) | Measured Power |         | Limit       |
|------------------------|-----------|-----------------|----------------|---------|-------------|
|                        |           |                 | dBm            | W       |             |
| 802.11b                | 1 Mbps    | 2412            | 19.62          | 0.09162 | < 1W(30dBm) |
|                        |           | 2437            | 18.46          | 0.07015 |             |
|                        |           | 2462            | 18.10          | 0.06457 |             |
| 802.11g                | 6 Mbps    | 2412            | 16.12          | 0.04093 |             |
|                        |           | 2437            | 16.97          | 0.04977 |             |
|                        |           | 2462            | 16.90          | 0.04898 |             |
| 802.11n (HT20)         | MCS0 Mbps | 2412            | 16.72          | 0.04699 |             |
|                        |           | 2437            | 17.56          | 0.05702 |             |
|                        |           | 2462            | 17.53          | 0.05662 |             |
| Maximum Measured Value |           |                 | 19.62          | 0.09162 |             |

Note: The cable loss is taken into account in results.

For the measurement records, refer to the appendix C.

### 5.1.3 Conducted Power Spectral Density

**RESULT:**
**Pass**
**Test Specification**

Test standard : FCC Part 15.247(e)  
 Basic standard : ANSI C63.10: 2013  
 Limits : 8 dBm / 3kHz  
 Kind of test site : Shielded Room

**Test Setup**

Date of testing : 12.06.2016  
 Input voltage : DC 3.7V 2700mAh via internal rechargeable Li-Poly battery  
 Operation mode : A.1  
 Test channel : Low / Middle / High  
 Ambient temperature : 24 °C  
 Relative humidity : 50 %  
 Atmospheric pressure : 101 kPa

**Table 6: Test Result of Power Spectral Density**

| Test Mode              | Data Rate | Frequency (MHz) | Measured Peak Power Spectral Density (dBm/3KHz) |
|------------------------|-----------|-----------------|-------------------------------------------------|
| 802.11b                | 1 Mbps    | 2412            | -6.849                                          |
|                        |           | 2437            | -6.676                                          |
|                        |           | 2462            | -7.016                                          |
| 802.11g                | 6 Mbps    | 2412            | -17.323                                         |
|                        |           | 2437            | -16.905                                         |
|                        |           | 2462            | -16.242                                         |
| 802.11n (HT20)         | MCS0 Mbps | 2412            | -17.056                                         |
|                        |           | 2437            | -15.512                                         |
|                        |           | 2462            | -15.314                                         |
| Maximum Measured Value |           |                 | -6.676                                          |

Note: The cable loss is taken into account in results.

For the measurement records, refer to the appendix C.

### 5.1.4 6dB Bandwidth

**RESULT:**
**Pass**
**Test Specification**

Test standard : FCC Part 15.247(a)(2)  
Basic standard : ANSI C63.10: 2013  
Limits : > 500 KHz  
Kind of test site : Shielded Room

**Test Setup**

Date of testing : 12.06.2016  
Input voltage : DC 3.7V 2700mAh via internal rechargeable Li-Poly battery  
Operation mode : A.1  
Test channel : Low / Middle / High  
Ambient temperature : 24 °C  
Relative humidity : 50 %  
Atmospheric pressure : 101 kPa

**Table 7: Test Result of 6dB Bandwidth**

| Test Mode              | Data Rate | Frequency (MHz) | -6dB Bandwidth (MHz) | Limit (kHz) |
|------------------------|-----------|-----------------|----------------------|-------------|
| 802.11b                | 1 Mbps    | 2412            | 10.07                | > 500       |
|                        |           | 2437            | 10.10                |             |
|                        |           | 2462            | 10.11                |             |
| 802.11g                | 6 Mbps    | 2412            | 16.38                |             |
|                        |           | 2437            | 16.41                |             |
|                        |           | 2462            | 16.39                |             |
| 802.11n (HT20)         | MCS0 Mbps | 2412            | 17.64                |             |
|                        |           | 2437            | 17.65                |             |
|                        |           | 2462            | 17.65                |             |
| Minimum Measured Value |           |                 | 10.07                |             |

Note: The cable loss is taken into account in results.

For the measurement records, refer to the appendix C.



### 5.1.5 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

**RESULT:****Pass****Test Specification**

|                   |                                                                                                                                                                                                                                                                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test standard     | : FCC Part 15.247(d)                                                                                                                                                                                                                                               |
| Basic standard    | : ANSI C63.10: 2013                                                                                                                                                                                                                                                |
| Limits            | : 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);<br>In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a) |
| Kind of test site | : Shielded Room                                                                                                                                                                                                                                                    |

**Test Setup**

|                      |                                                             |
|----------------------|-------------------------------------------------------------|
| Date of testing      | : 12.06.2016                                                |
| Input voltage        | : DC 3.7V 2700mAh via internal rechargeable Li-Poly battery |
| Operation mode       | : A.1                                                       |
| Test channel         | : Low / Middle / High                                       |
| Ambient temperature  | : 24 °C                                                     |
| Relative humidity    | : 50 %                                                      |
| Atmospheric pressure | : 101 kPa                                                   |

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to following test plot, and compliance is achieved as well.

For the measurement records, refer to the appendix C.

## 5.1.6 Radiated Spurious Emission

**RESULT:****Pass****Test Specification**

|                   |                                            |
|-------------------|--------------------------------------------|
| Test standard     | : FCC Part 15.247(d) & FCC Part 15.205     |
| Basic standard    | : ANSI C63.10: 2013                        |
| Limits            | : Refer to 15.209(a) of FCC part 15.247(d) |
| Kind of test site | : 3m Semi-anechoic Chamber                 |

**Test Setup**

|                      |                                                                                                            |
|----------------------|------------------------------------------------------------------------------------------------------------|
| Date of testing      | : 15.06.2016                                                                                               |
| Input voltage        | : DC 3.7V 2700mAh via internal rechargeable Li-Poly battery<br>DC 5.0V 1.5A via AC/DC adapter for charging |
| Operation mode       | : A.1                                                                                                      |
| Test channel         | : Low / Middle / High                                                                                      |
| Ambient temperature  | : 24 °C                                                                                                    |
| Relative humidity    | : 50 %                                                                                                     |
| Atmospheric pressure | : 101 kPa                                                                                                  |

**Remark:**

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test set-up photos.

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to following test plot, and compliance is achieved as well.

Testing was carried out within frequency range 9kHz to the tenth harmonics.

For the measurement records, refer to the appendix D.

## 7 List of Tables

|                                                                  |    |
|------------------------------------------------------------------|----|
| Table 1: List of Test and Measurement Equipment.....             | 5  |
| Table 2: Technical Specification of EUT .....                    | 7  |
| Table 3: RF Channel and Frequency of Wi-Fi.....                  | 8  |
| Table 4: List of Accessories and Auxiliary Equipment.....        | 10 |
| Table 5: Test Result of Maximum Peak Conducted Output Power..... | 14 |
| Table 6: Test Result of Power Spectral Density.....              | 15 |
| Table 7: Test Result of 6dB Bandwidth.....                       | 16 |

## 8 List of Photographs

|                                                                          |    |
|--------------------------------------------------------------------------|----|
| Photograph 1: Set-up for Radiated Spurious Emission (9kHz ~ 30MHz) ..... | 19 |
| Photograph 2: Set-up for Radiated Spurious Emission (30MHz~1GHz) .....   | 19 |
| Photograph 3: Set-up for Radiated Spurious Emission (1GHz ~ 18GHz).....  | 20 |
| Photograph 4: Set-up for Radiated Spurious Emission (18GHz ~ 26GHz)..... | 20 |

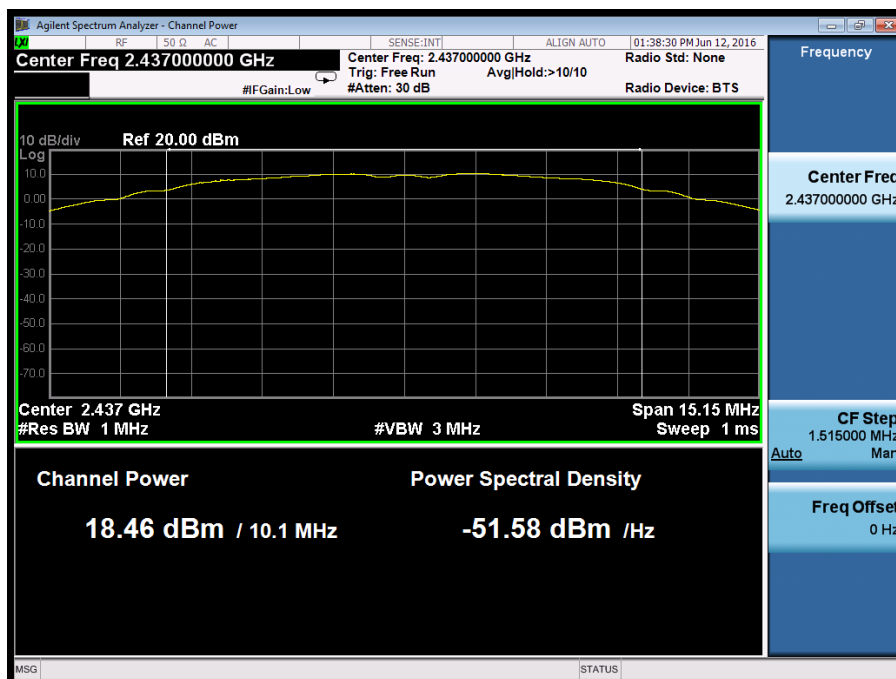
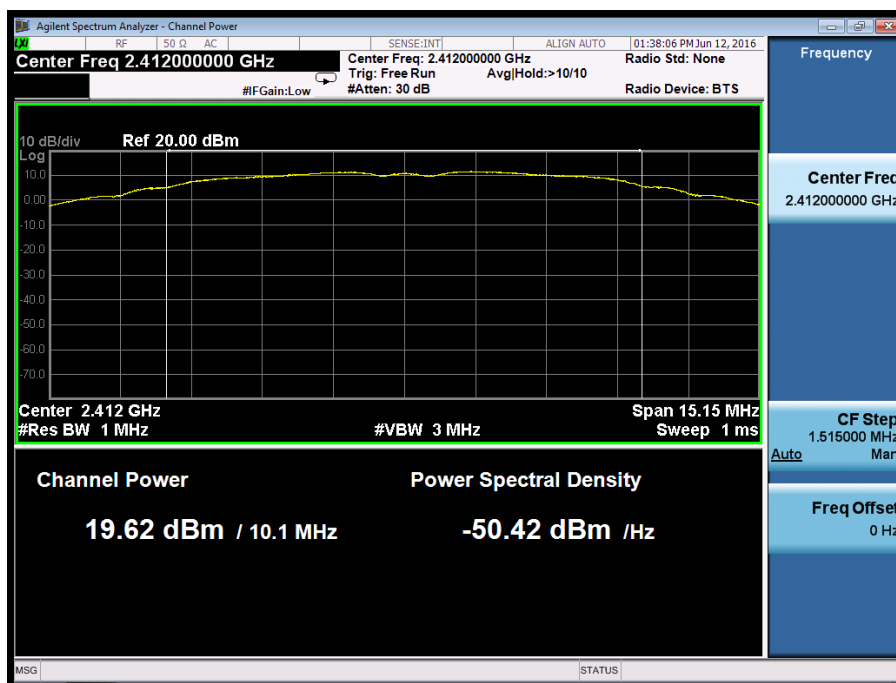
## Appendix C

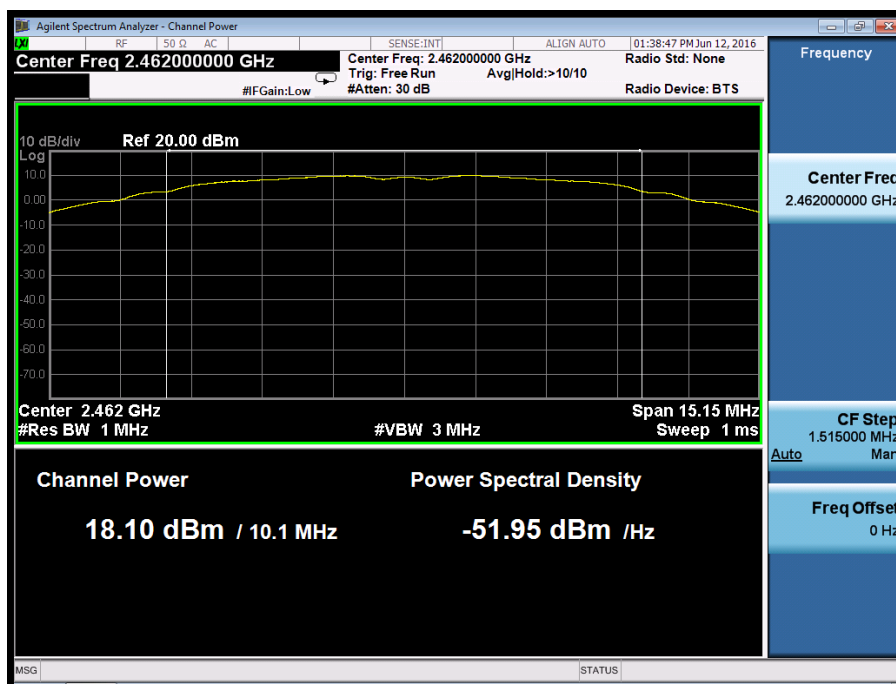
### Test Results of Wi-Fi 802.11b/g/n(HT20) of Conducted Testing

|                                                                                |    |
|--------------------------------------------------------------------------------|----|
| APPENDIX C .....                                                               | 1  |
| APPENDIX C.1: MAXIMUM PEAK CONDUCTED OUTPUT POWER .....                        | 2  |
| <i>Wi-Fi 802.11 b mode, 1 Mbps</i> .....                                       | 2  |
| <i>Wi-Fi 802.11 g mode, 6 Mbps</i> .....                                       | 3  |
| <i>Wi-Fi 802.11 n(HT20) mode, MCS0</i> .....                                   | 5  |
| APPENDIX C.2: CONDUCTED POWER SPECTRAL DENSITY .....                           | 6  |
| <i>Wi-Fi 802.11 b mode, 1 Mbps</i> .....                                       | 6  |
| <i>Wi-Fi 802.11 g mode, 6 Mbps</i> .....                                       | 8  |
| <i>Wi-Fi 802.11 n(HT20) mode, MCS0</i> .....                                   | 9  |
| APPENDIX C.3: 6dB BANDWIDTH .....                                              | 11 |
| <i>Wi-Fi 802.11 b mode, 1 Mbps</i> .....                                       | 11 |
| <i>Wi-Fi 802.11 g mode, 6 Mbps</i> .....                                       | 12 |
| <i>Wi-Fi 802.11 n(HT20) mode, MCS0</i> .....                                   | 14 |
| APPENDIX C.4: CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH ..... | 15 |
| <i>Wi-Fi 802.11 b mode, 1 Mbps</i> .....                                       | 15 |
| <i>Wi-Fi 802.11 g mode, 6 Mbps</i> .....                                       | 17 |
| <i>Wi-Fi 802.11 n(HT20) mode, MCS0</i> .....                                   | 18 |
| <i>Wi-Fi 802.11 b mode, Band Edge</i> .....                                    | 20 |
| <i>Wi-Fi 802.11 g mode, Band Edge</i> .....                                    | 21 |
| <i>Wi-Fi 802.11 n(HT20) mode, Band Edge</i> .....                              | 22 |

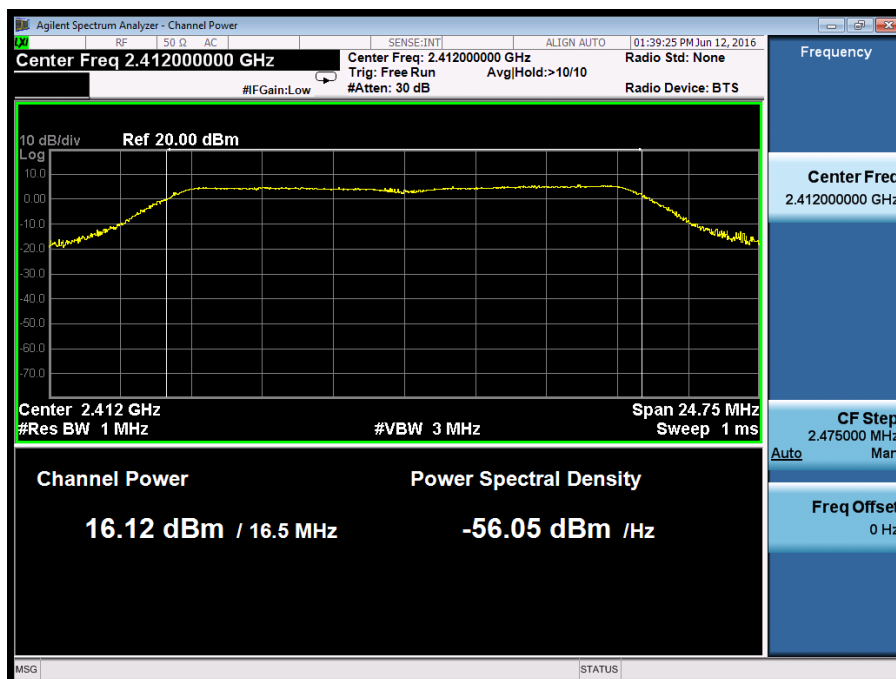
## Appendix C.1: Maximum Peak Conducted Output Power

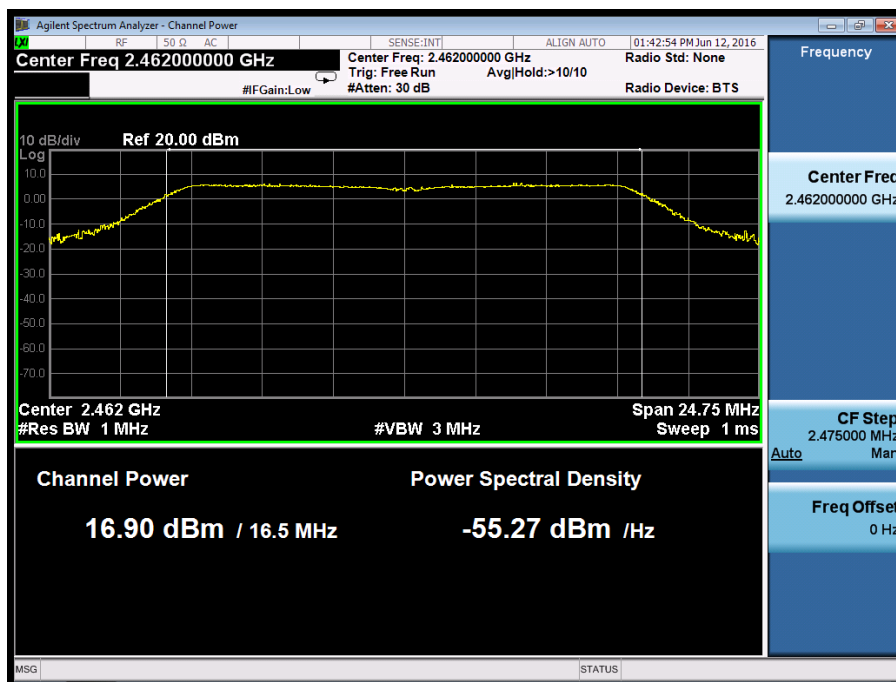
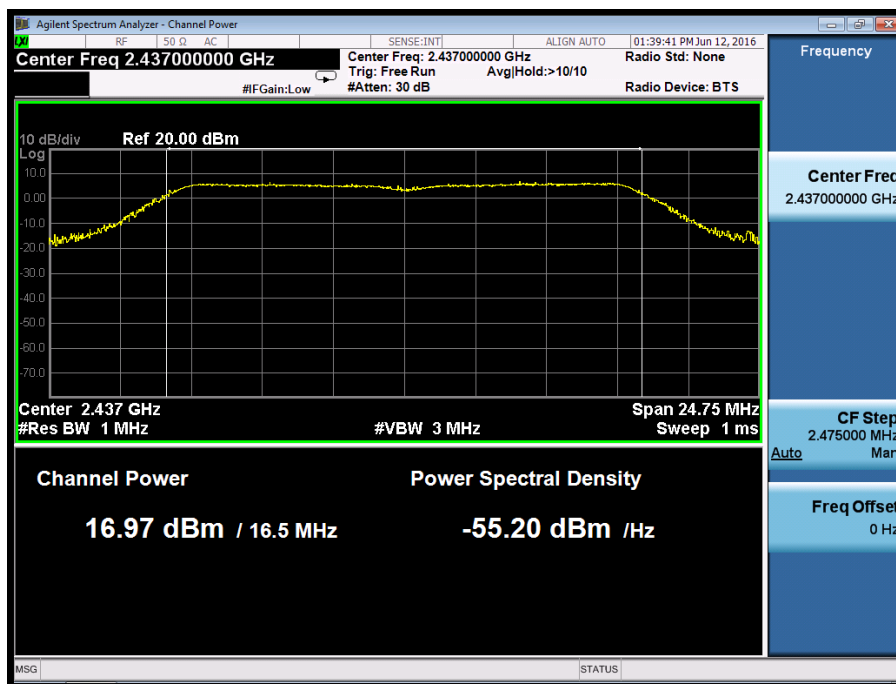
Wi-Fi 802.11 b mode, 1 Mbps



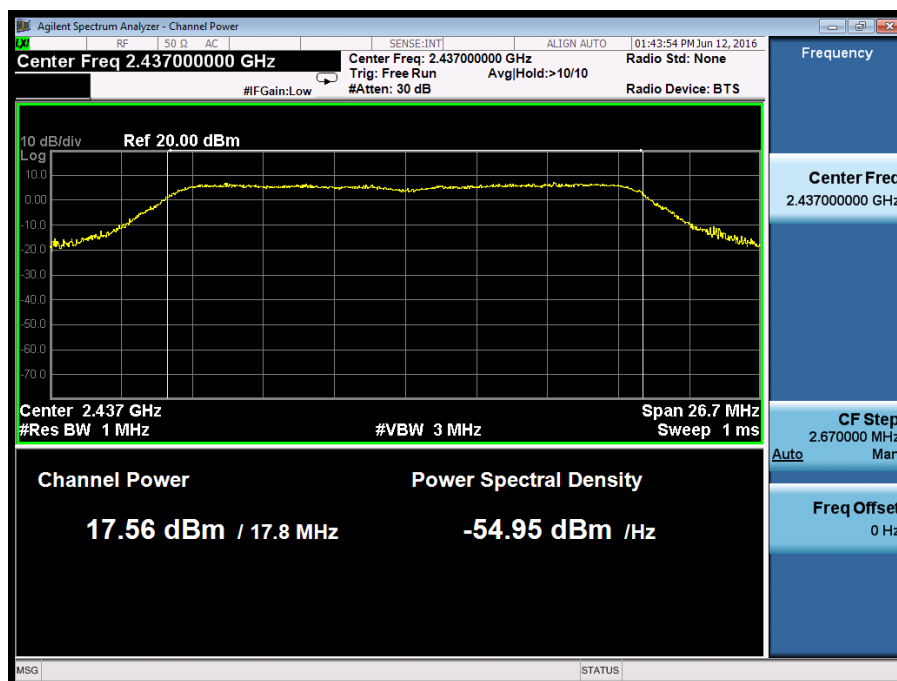
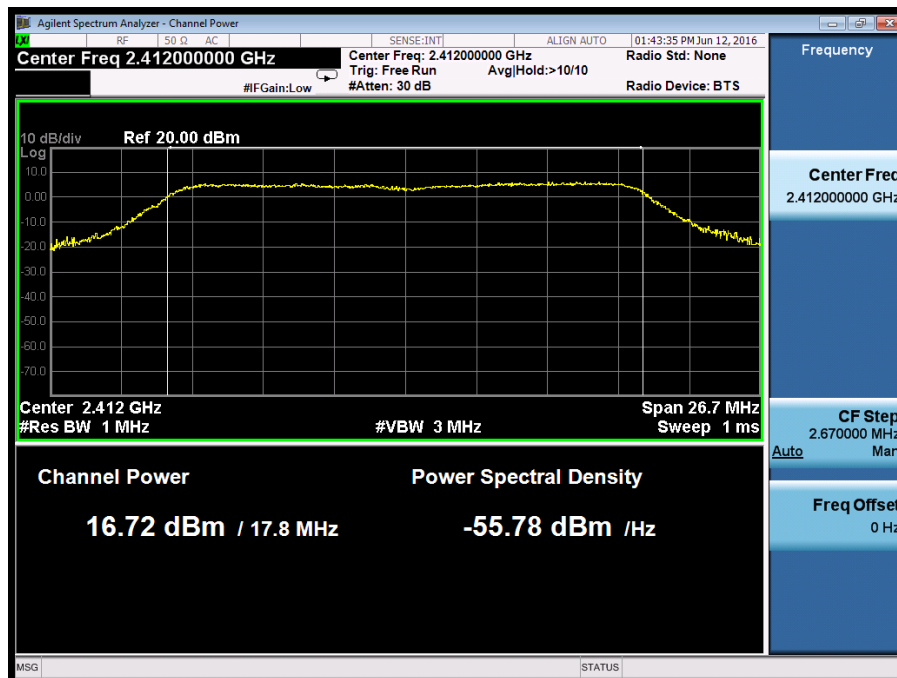


Wi-Fi 802.11 g mode, 6 Mbps

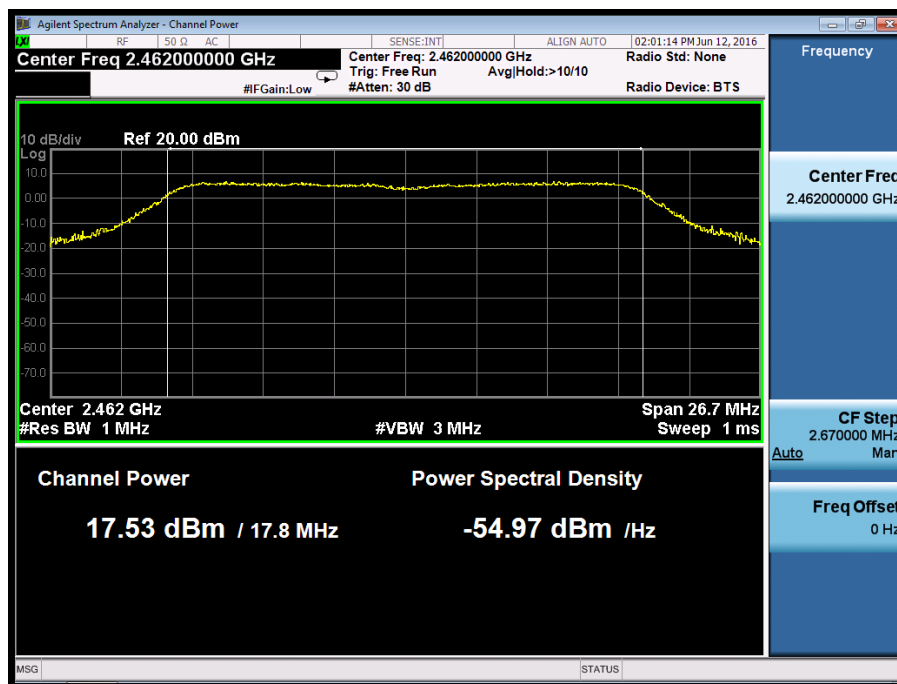




## Wi-Fi 802.11 n(HT20) mode, MCS0



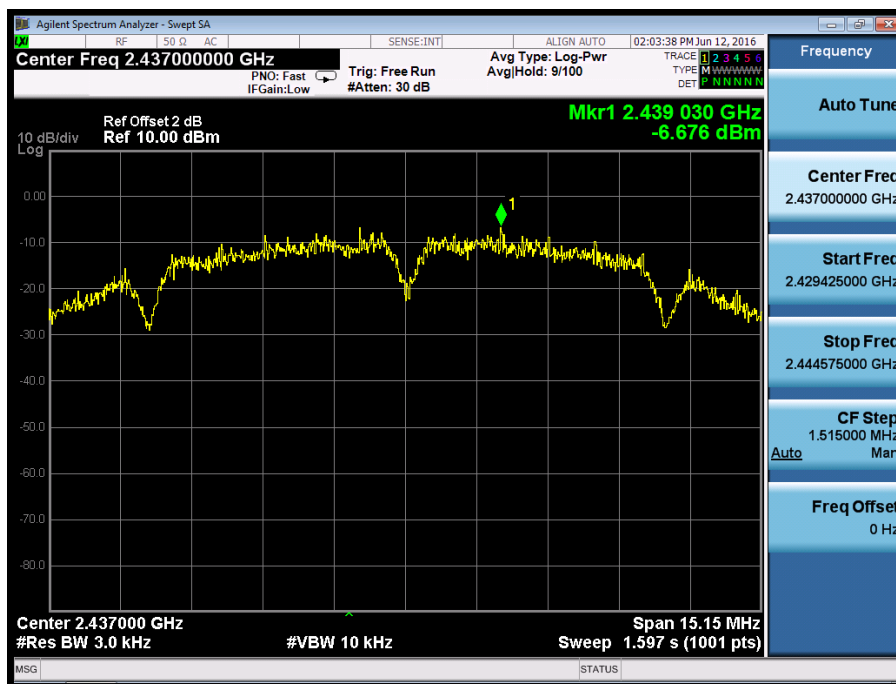




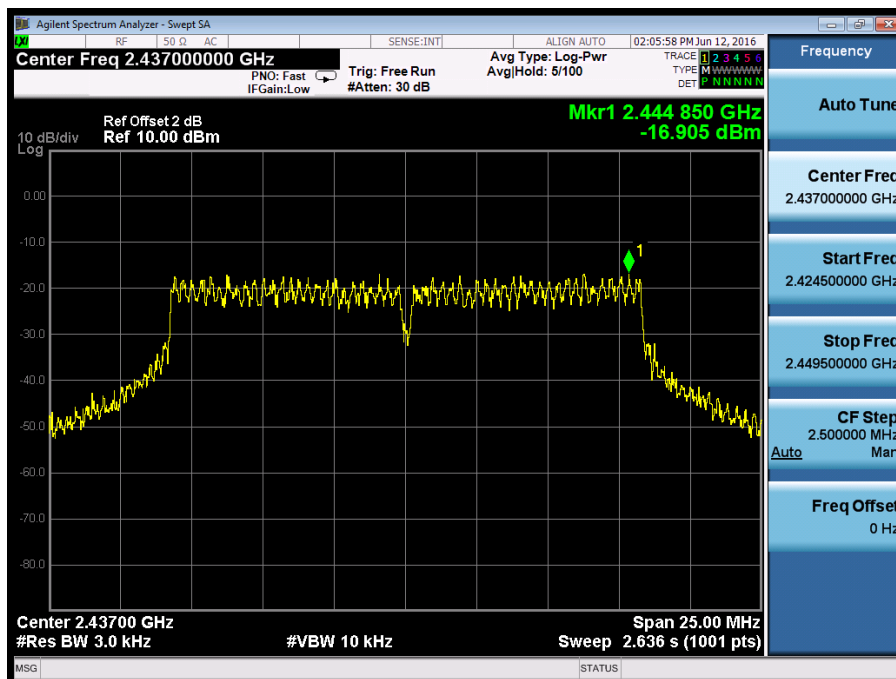
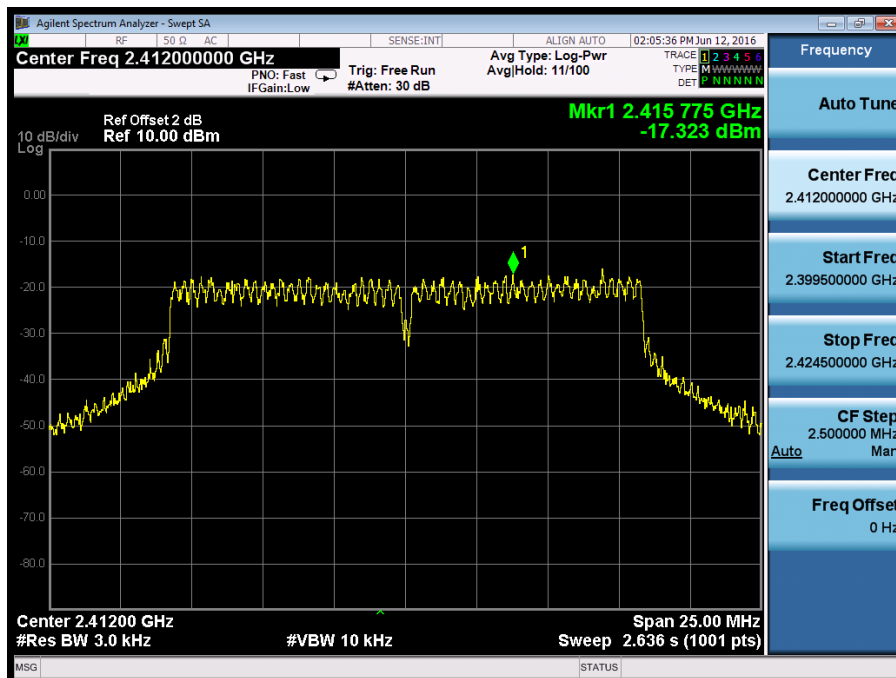
## Appendix C.2: Conducted Power Spectral Density

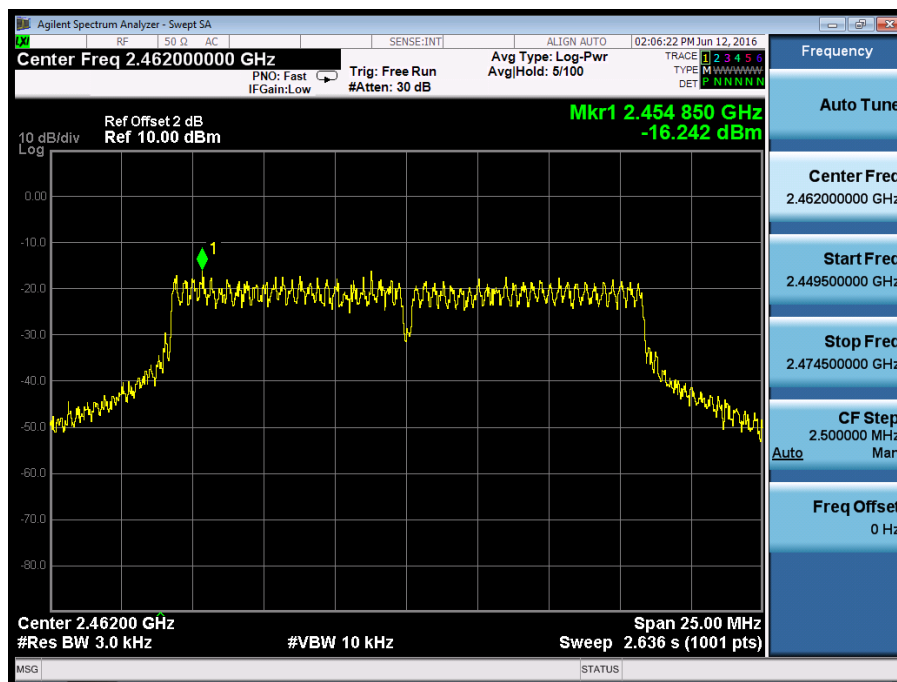
Wi-Fi 802.11 b mode, 1 Mbps



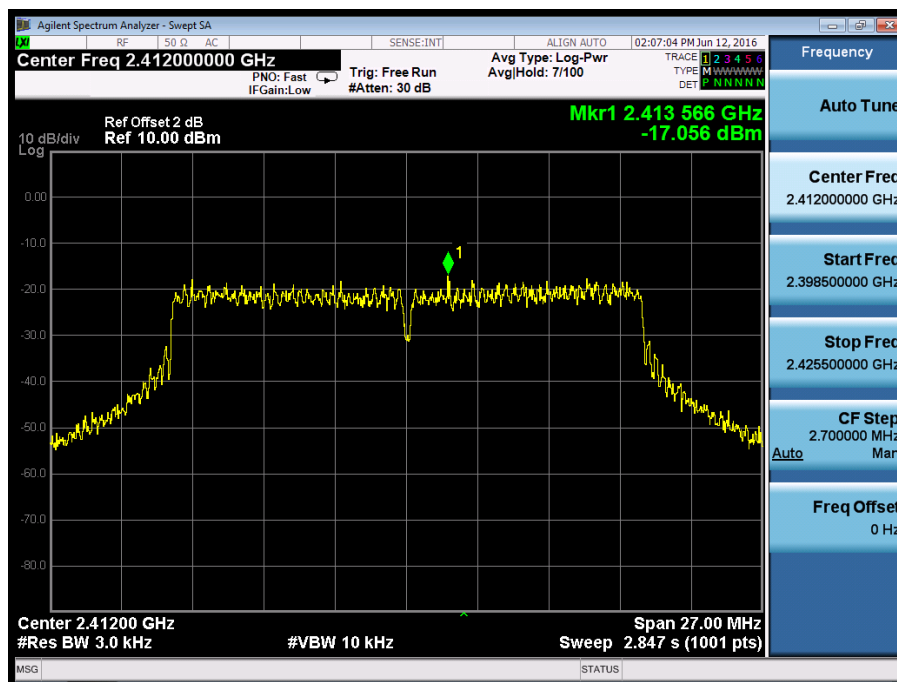


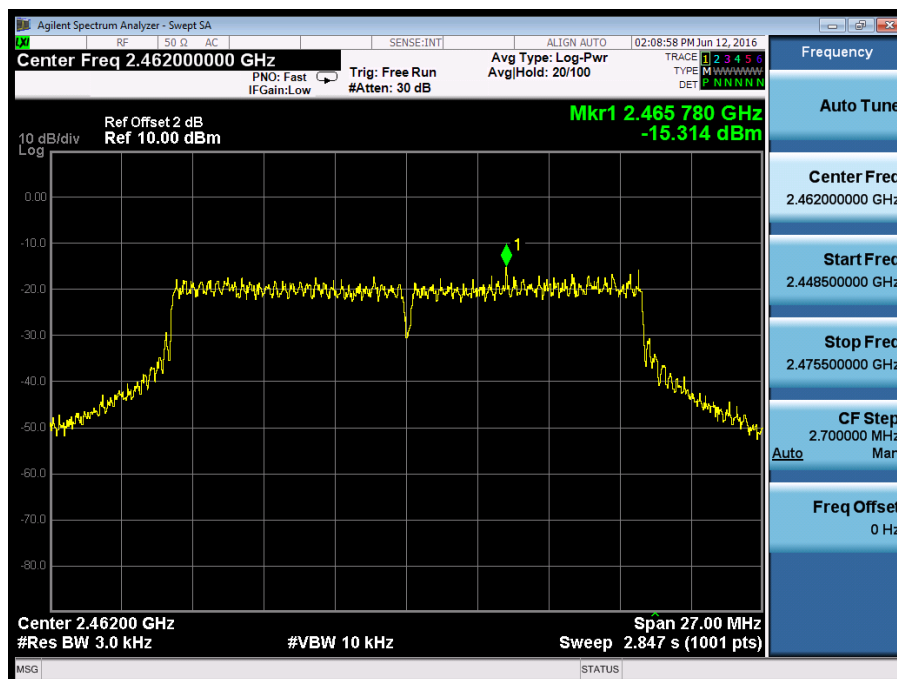
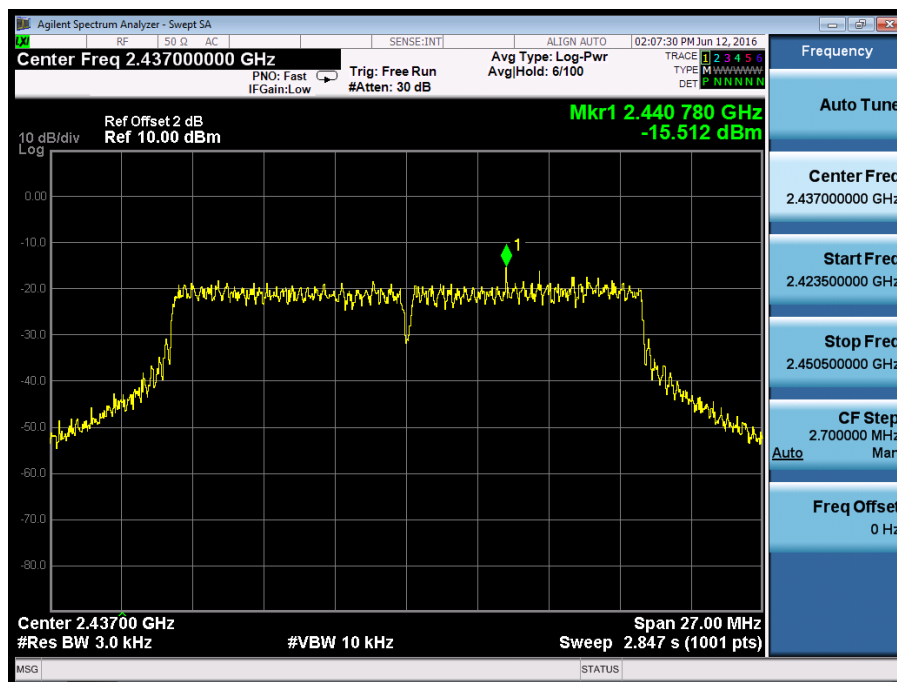
## Wi-Fi 802.11 g mode, 6 Mbps





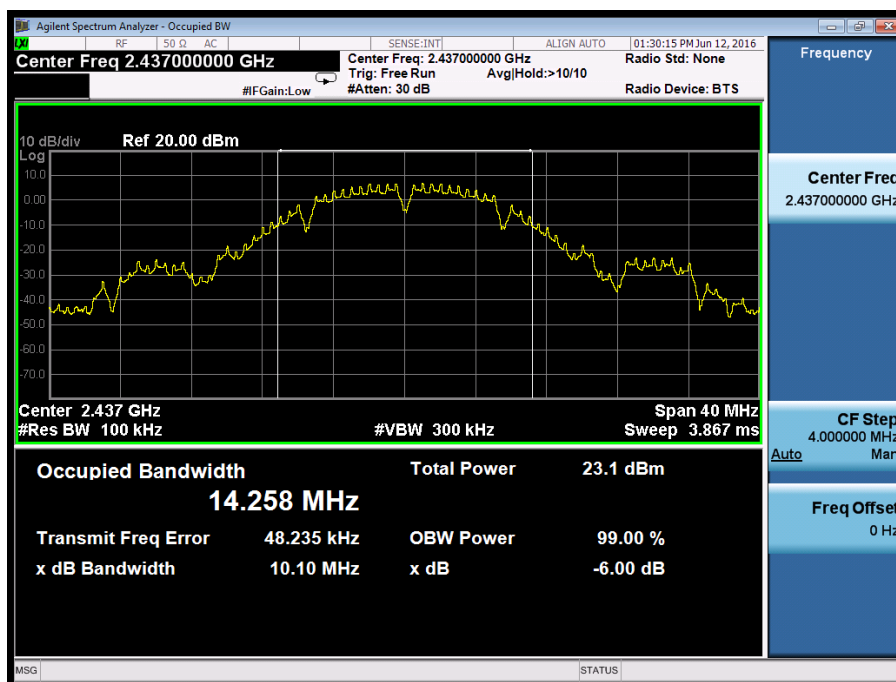
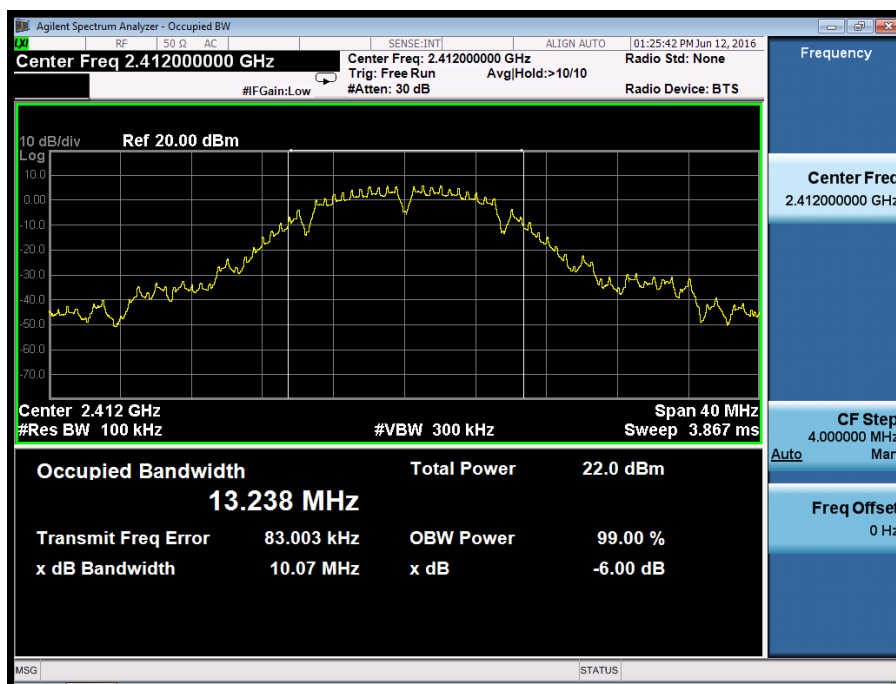
Wi-Fi 802.11 n(HT20) mode, MCS0





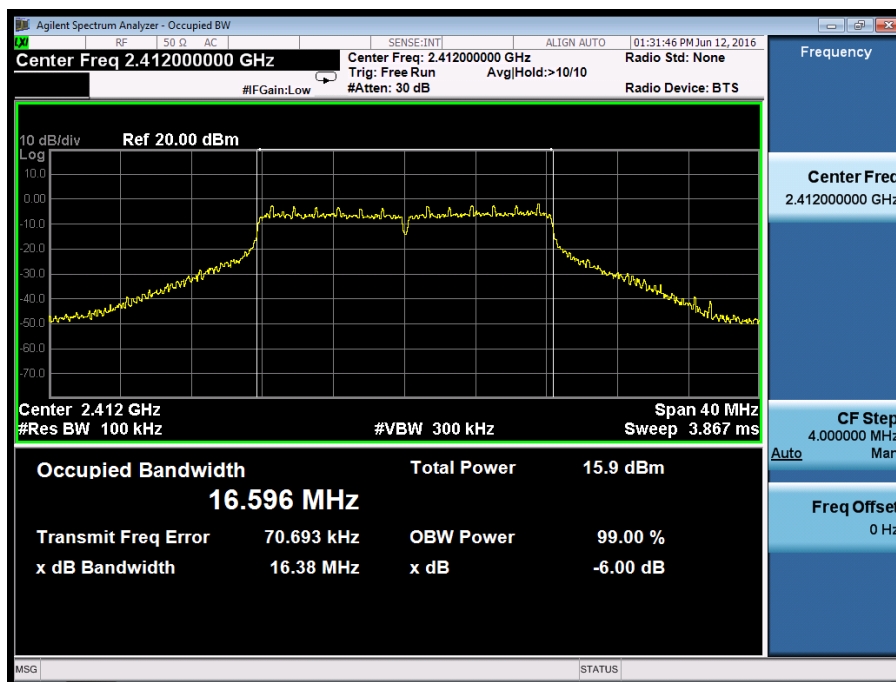
## Appendix C.3: 6dB Bandwidth

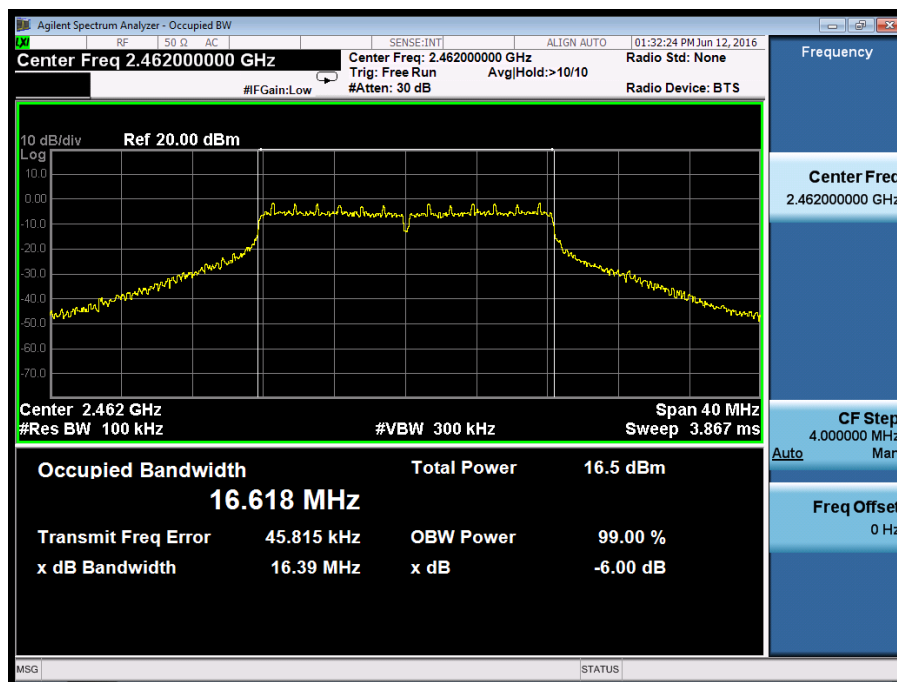
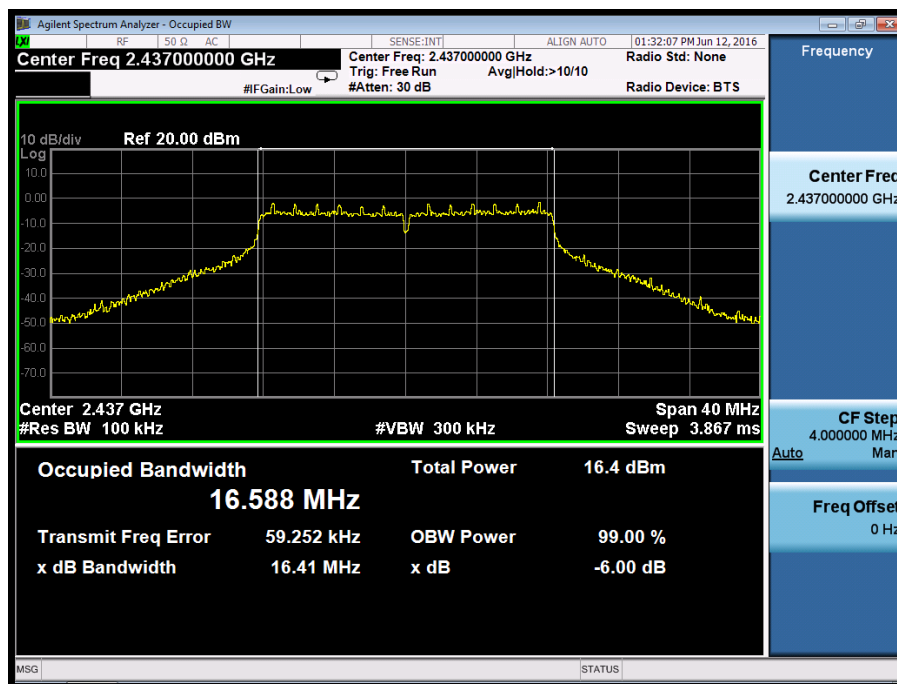
Wi-Fi 802.11 b mode, 1 Mbps





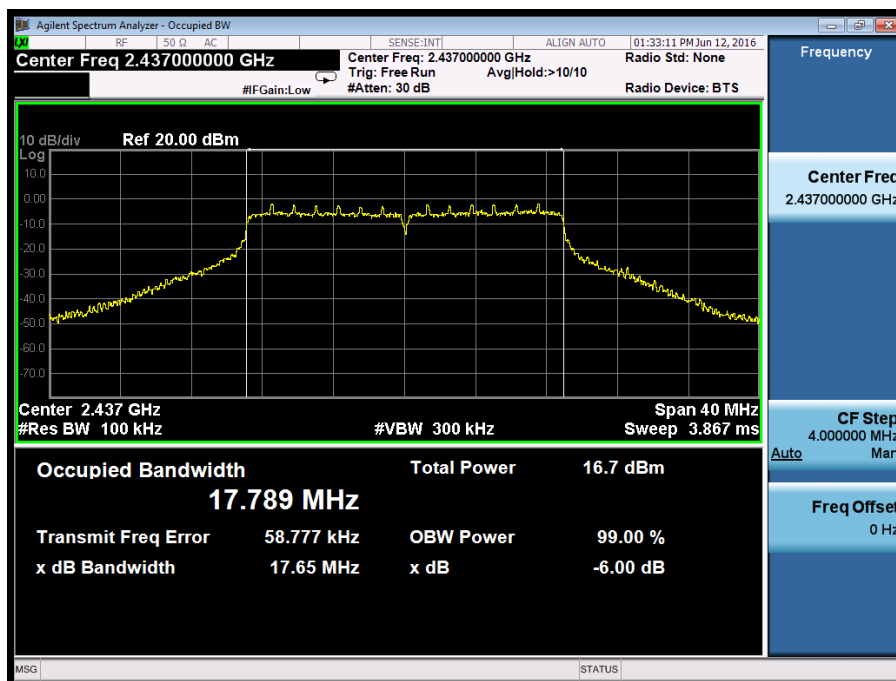
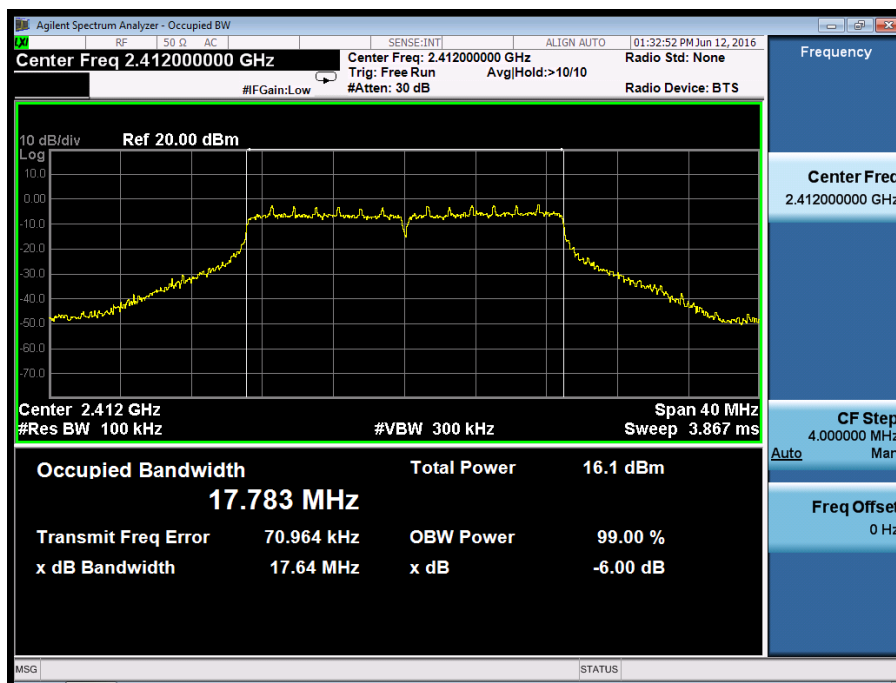
Wi-Fi 802.11 g mode, 6 Mbps

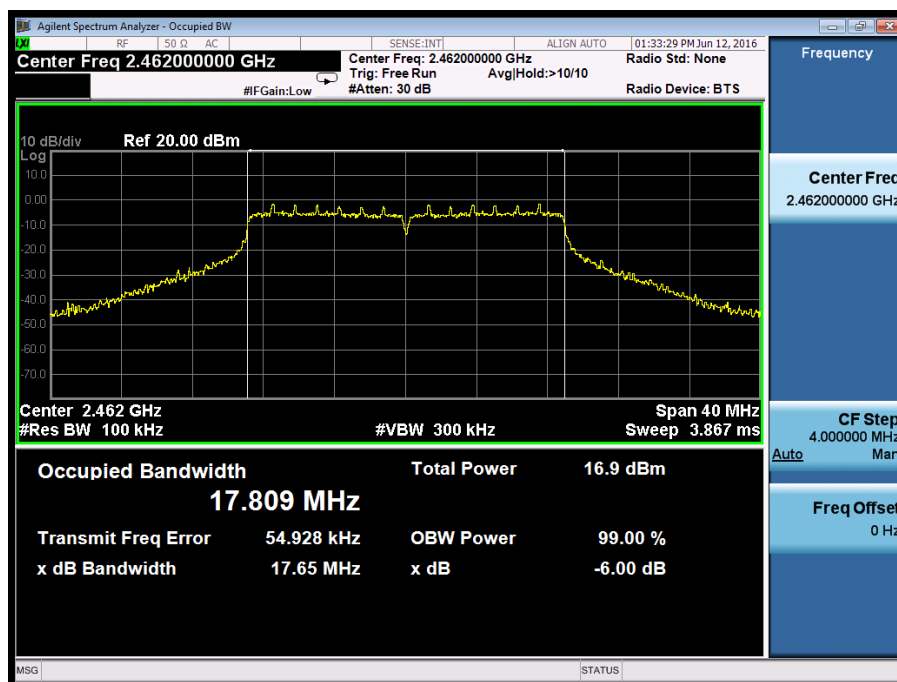






## Wi-Fi 802.11 n(HT20) mode, MCS0





#### Appendix C.4: Conducted Spurious Emissions Measured in 100 kHz Bandwidth Wi-Fi 802.11 b mode, 1 Mbps





## Wi-Fi 802.11 g mode, 6 Mbps



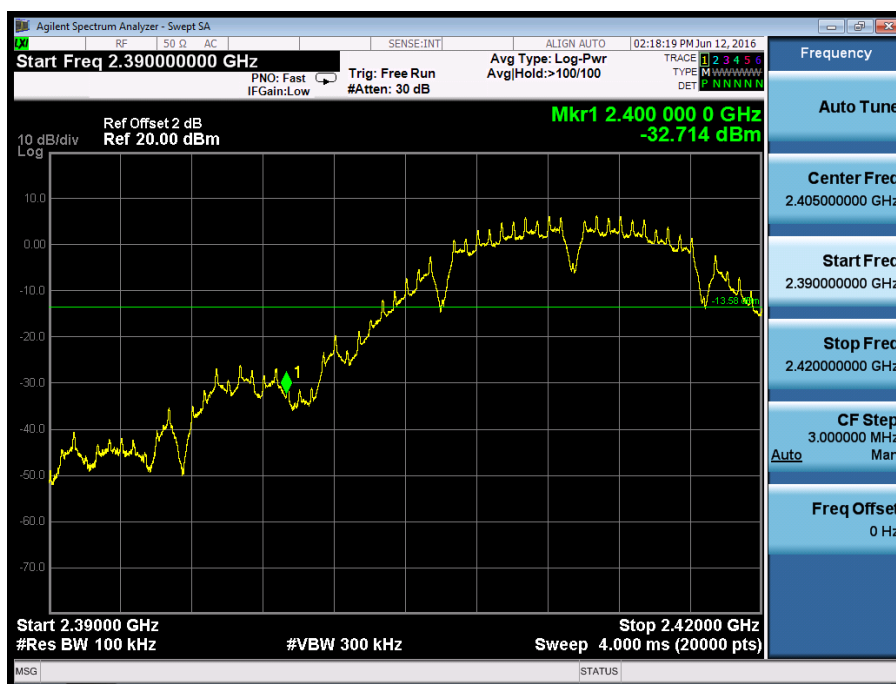


Wi-Fi 802.11 n(HT20) mode, MCS0

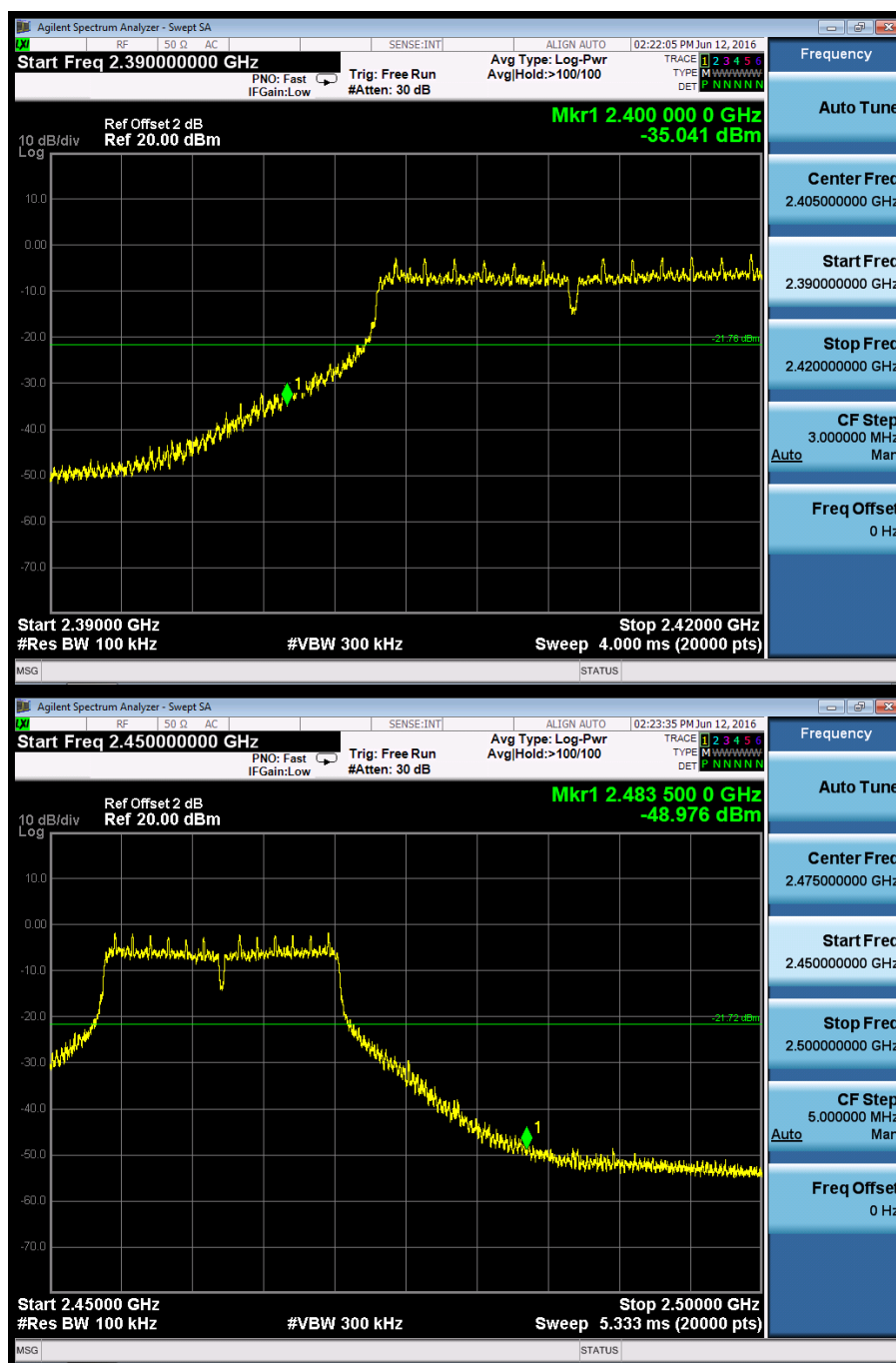




## Wi-Fi 802.11 b mode, Band Edge

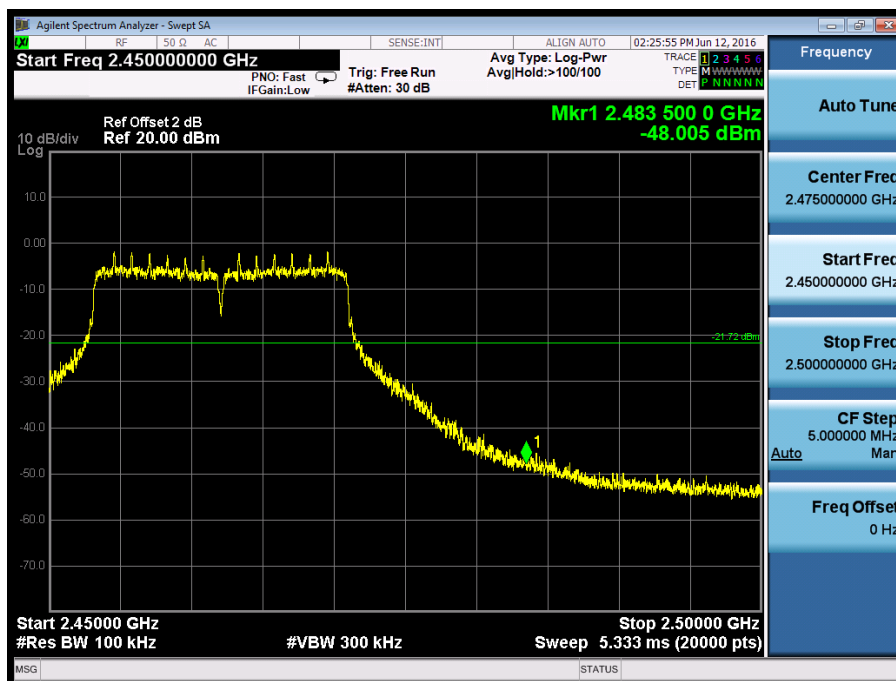
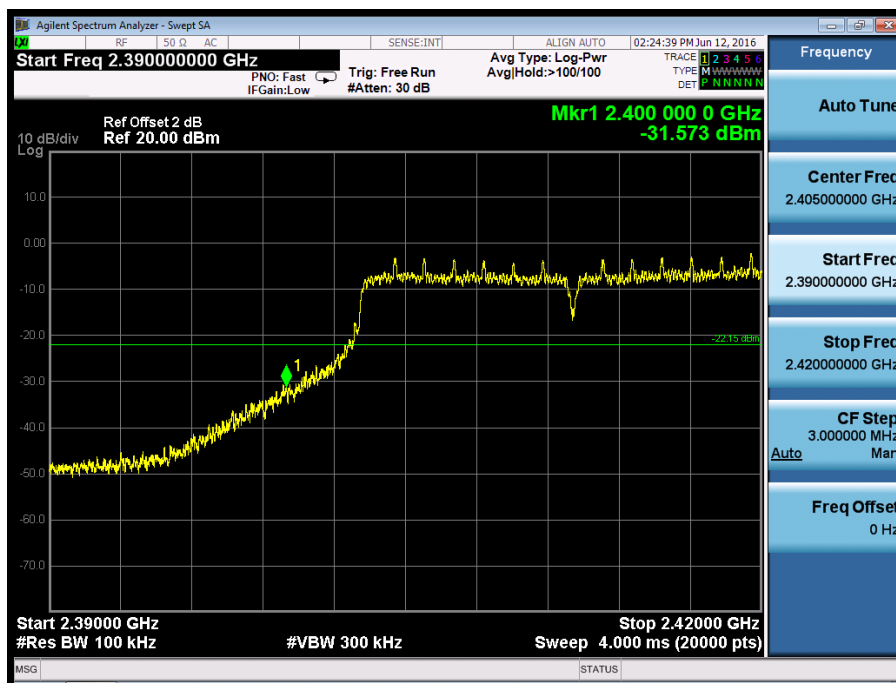


## Wi-Fi 802.11 g mode, Band Edge





## Wi-Fi 802.11 n(HT20) mode, Band Edge



## Appendix D

### Test Results of Wi-Fi 802.11b/g/n(HT20) of Radiated Testing

|                                                                                   |           |
|-----------------------------------------------------------------------------------|-----------|
| <b>APPENDIX D.....</b>                                                            | <b>1</b>  |
| <b>APPENDIX D.1: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS .....</b>            | <b>2</b>  |
| <i>Wi-Fi 802.11 b mode, 1 Mbps.....</i>                                           | <i>2</i>  |
| <i>Wi-Fi 802.11 g mode, 6 Mbps.....</i>                                           | <i>23</i> |
| <i>Wi-Fi 802.11 n(HT20) mode, MCS0 .....</i>                                      | <i>44</i> |
| <b>APPENDIX D.2: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS .....</b> | <b>65</b> |
| <i>Wi-Fi 802.11 b mode, 1 Mbps.....</i>                                           | <i>65</i> |
| <i>Wi-Fi 802.11 g mode, 6 Mbps.....</i>                                           | <i>69</i> |
| <i>Wi-Fi 802.11 n(HT20) mode, MCS0 .....</i>                                      | <i>73</i> |

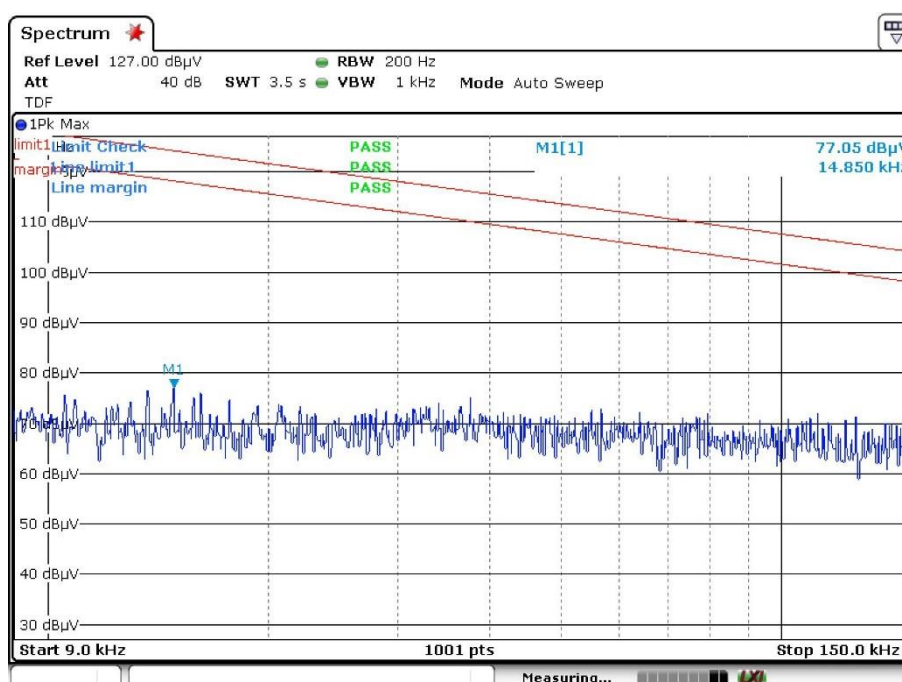
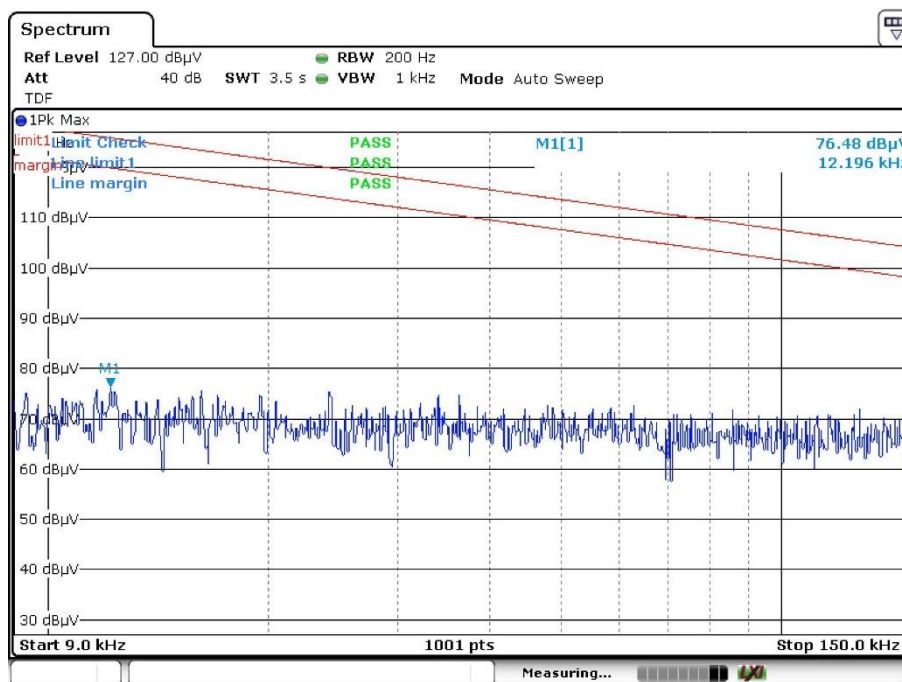
## NOTE

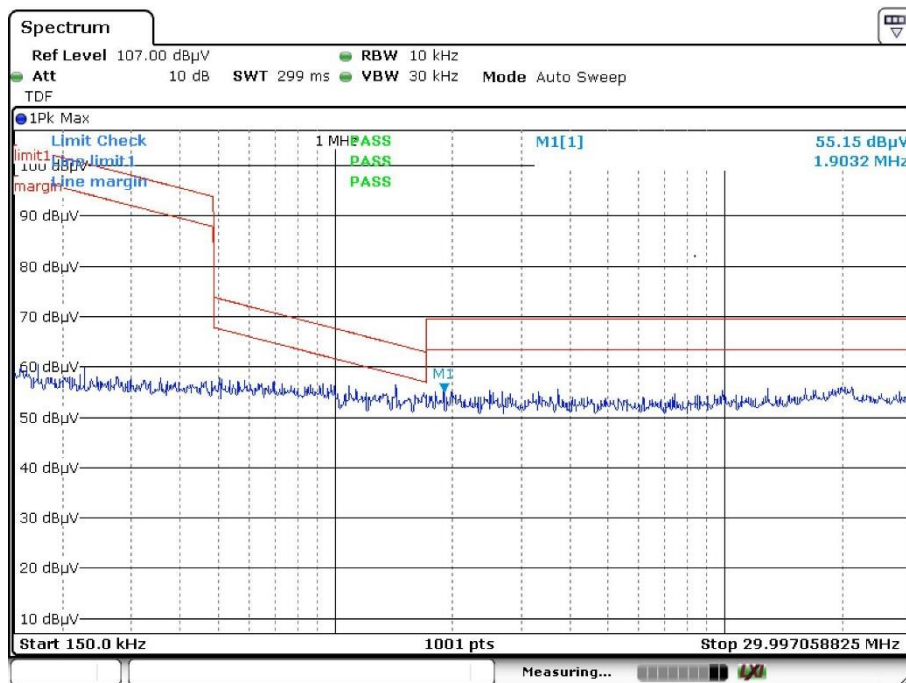
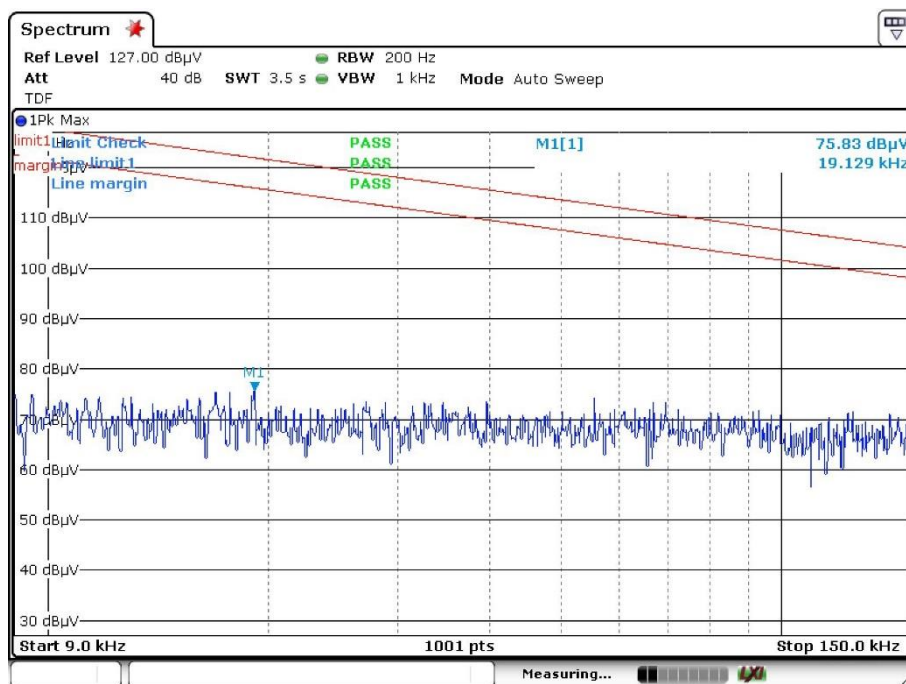
During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test set-up photos.

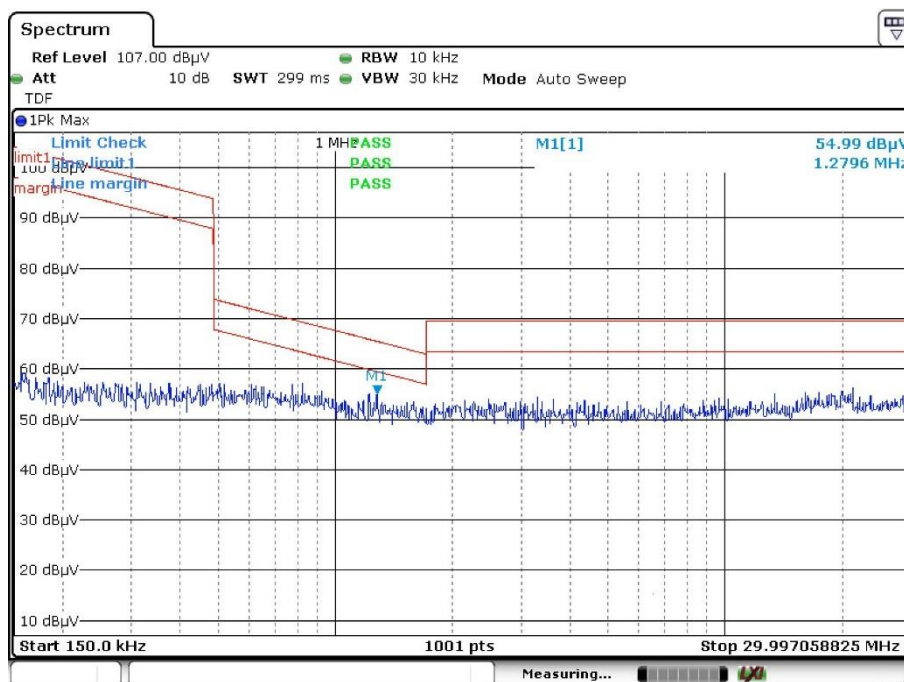
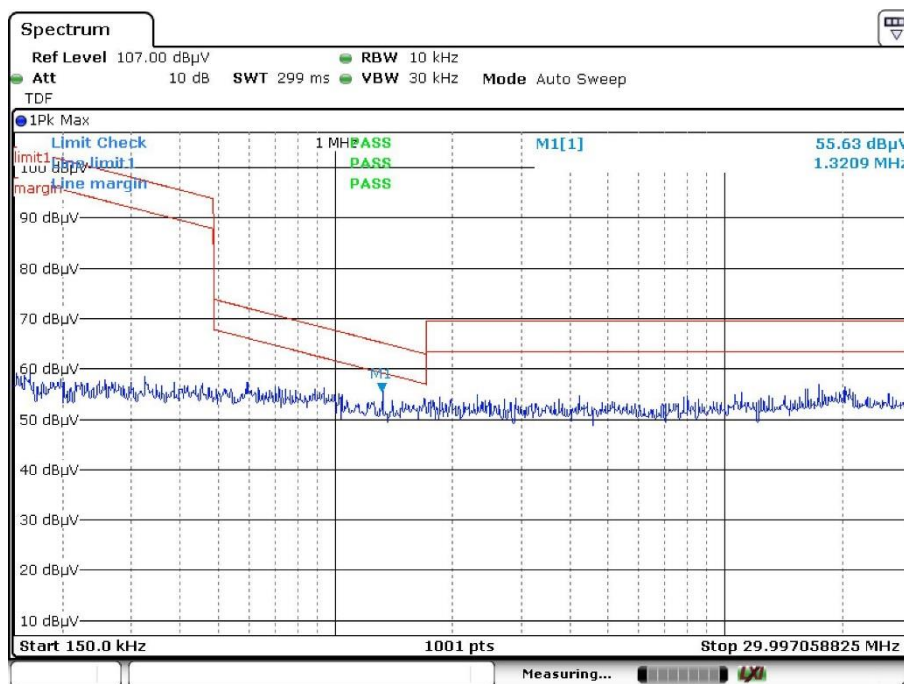
## Appendix D.1: Test Results of Radiated Spurious Emissions

Wi-Fi 802.11 b mode, 1 Mbps

9KHz - 30MHz







### 30MHz - 1GHz

Shenzhen EMTEK Co., Ltd.  
Bldg. 69, Najialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China  
www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282

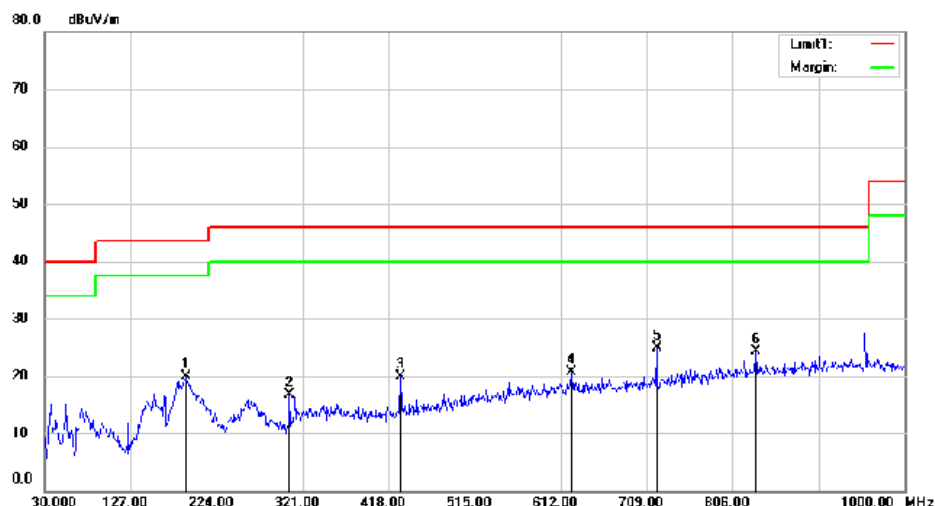


#### Radiated Emission Measurement

File :TUV

Data :#902

Date:2016/06/15



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 21 C

Limit: ( RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID721-RB

Mode:11B 2412

Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |        |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|--------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector       | cm           | degree |
| 1   |     | 189.0800 | 52.43         | -32.55         | 19.88       | 43.50  | -23.62 | QP             |              | 0      |
| 2   |     | 306.4500 | 46.02         | -29.31         | 16.71       | 46.00  | -29.29 | QP             |              | 0      |
| 3   |     | 431.5800 | 46.14         | -26.15         | 19.99       | 46.00  | -26.01 | QP             |              | 0      |
| 4   |     | 623.6400 | 42.01         | -21.32         | 20.69       | 46.00  | -25.31 | QP             |              | 0      |
| 5   | *   | 720.6400 | 44.98         | -19.98         | 25.00       | 46.00  | -21.00 | QP             |              | 0      |
| 6   |     | 832.1900 | 42.09         | -17.69         | 24.40       | 46.00  | -21.60 | QP             |              | 0      |

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

Operator: CSL

File :TUV\Data :#902

Page: 1

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www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282

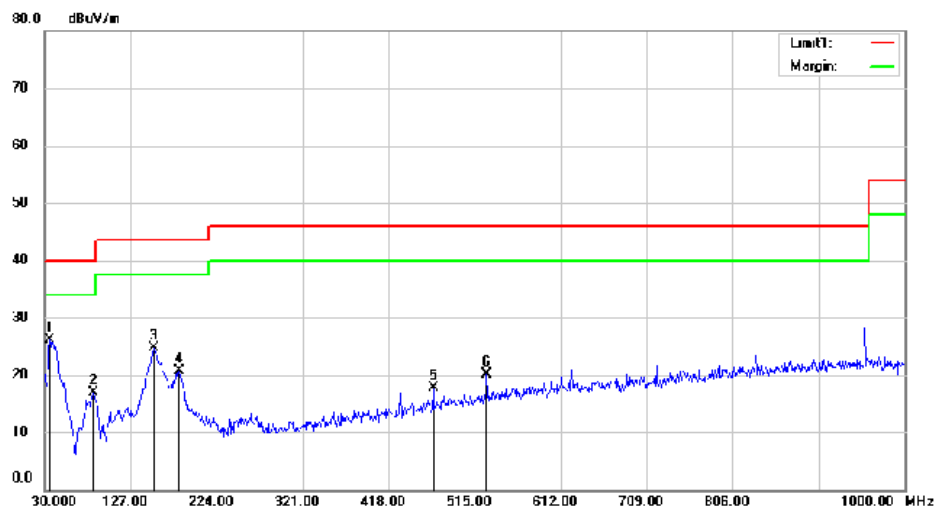


### Radiated Emission Measurement

File :TUV

Data :#903

Date:2016/06/15



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 21 C

Limit: ( RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID721-RB

Mode:11B 2412

Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |        |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|--------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector       | cm           | degree |
| 1   | *   | 35.8200  | 57.82         | -31.77         | 26.05       | 40.00  | -13.95 | QP             | 0            |        |
| 2   |     | 84.3200  | 50.73         | -33.92         | 16.81       | 40.00  | -23.19 | QP             | 0            |        |
| 3   |     | 153.1900 | 59.72         | -34.94         | 24.78       | 43.50  | -18.72 | QP             | 0            |        |
| 4   |     | 181.3200 | 53.90         | -33.20         | 20.70       | 43.50  | -22.80 | QP             | 0            |        |
| 5   |     | 468.4400 | 42.81         | -25.12         | 17.69       | 46.00  | -28.31 | QP             | 0            |        |
| 6   |     | 528.5800 | 43.53         | -23.40         | 20.13       | 46.00  | -25.87 | QP             | 0            |        |

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

Operator: CSL

File :TUV\Data :#903

Page: 1

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www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282

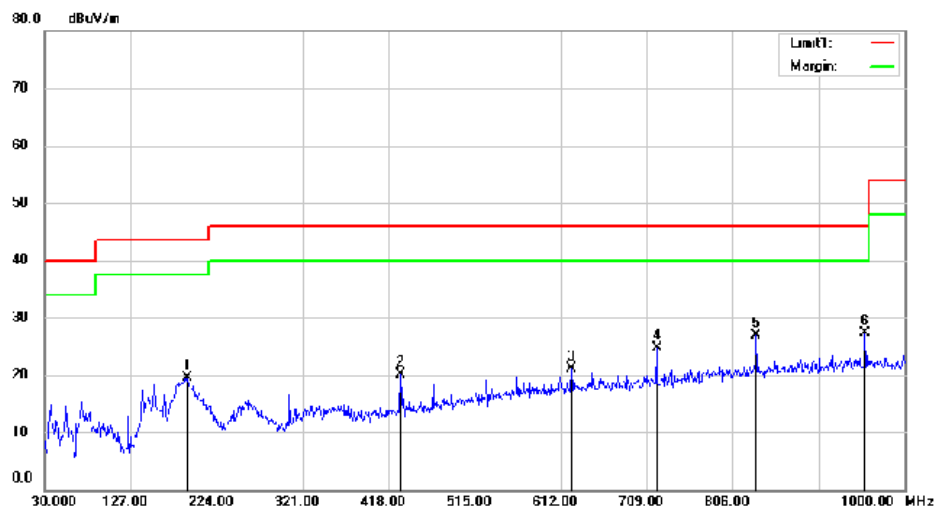


### Radiated Emission Measurement

File :TUV

Data :#900

Date:2016/06/15



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 21 C

Limit: ( RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID721-RB

Mode:11B 2437

Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |        |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|--------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector       | cm           | degree |
| 1   |     | 191.0200 | 51.93         | -32.47         | 19.46       | 43.50  | -24.04 | QP             |              | 0      |
| 2   |     | 431.5800 | 46.25         | -26.15         | 20.10       | 46.00  | -25.90 | QP             |              | 0      |
| 3   |     | 624.6100 | 42.35         | -21.29         | 21.06       | 46.00  | -24.94 | QP             |              | 0      |
| 4   |     | 720.6400 | 44.65         | -19.98         | 24.67       | 46.00  | -21.33 | QP             |              | 0      |
| 5   |     | 832.1900 | 44.62         | -17.69         | 26.93       | 46.00  | -19.07 | QP             |              | 0      |
| 6   | *   | 955.3800 | 43.07         | -15.69         | 27.38       | 46.00  | -18.62 | QP             |              | 0      |

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

Operator: CSL

File :TUV\Data :#900

Page: 1



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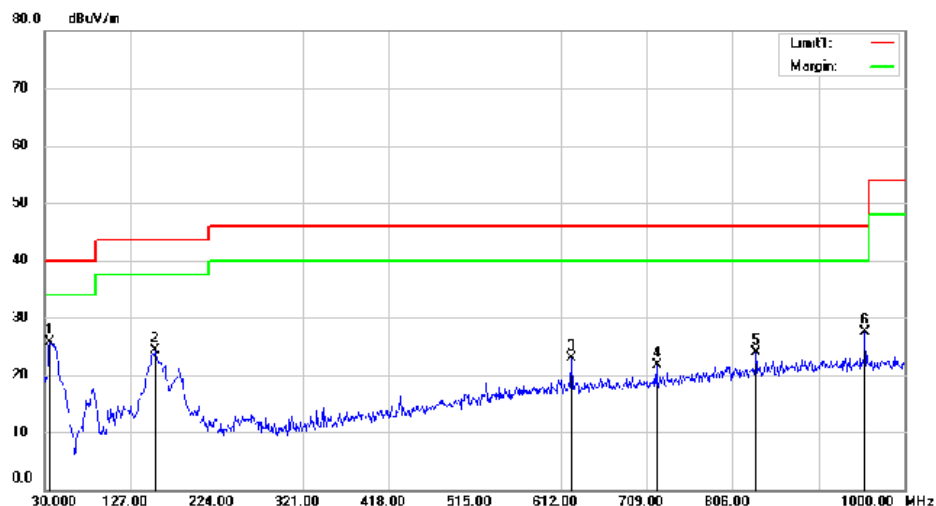


### Radiated Emission Measurement

File :TUV

Data :#901

Date:2016/06/15



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 21 C

Limit: ( RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID721-RB

Mode:11B 2437

Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |        |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|--------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector       | cm           | degree |
| 1   | *   | 35.8200  | 57.56         | -31.77         | 25.79       | 40.00  | -14.21 | QP             |              | 0      |
| 2   |     | 154.1600 | 59.14         | -34.92         | 24.22       | 43.50  | -19.28 | QP             |              | 0      |
| 3   |     | 623.6400 | 44.16         | -21.32         | 22.84       | 46.00  | -23.16 | QP             |              | 0      |
| 4   |     | 720.6400 | 41.64         | -19.98         | 21.66       | 46.00  | -24.34 | QP             |              | 0      |
| 5   |     | 832.1900 | 41.50         | -17.69         | 23.81       | 46.00  | -22.19 | QP             |              | 0      |
| 6   |     | 955.3800 | 43.21         | -15.69         | 27.52       | 46.00  | -18.48 | QP             |              | 0      |

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

Operator: CSL

File :TUV\Data :#901

Page: 1

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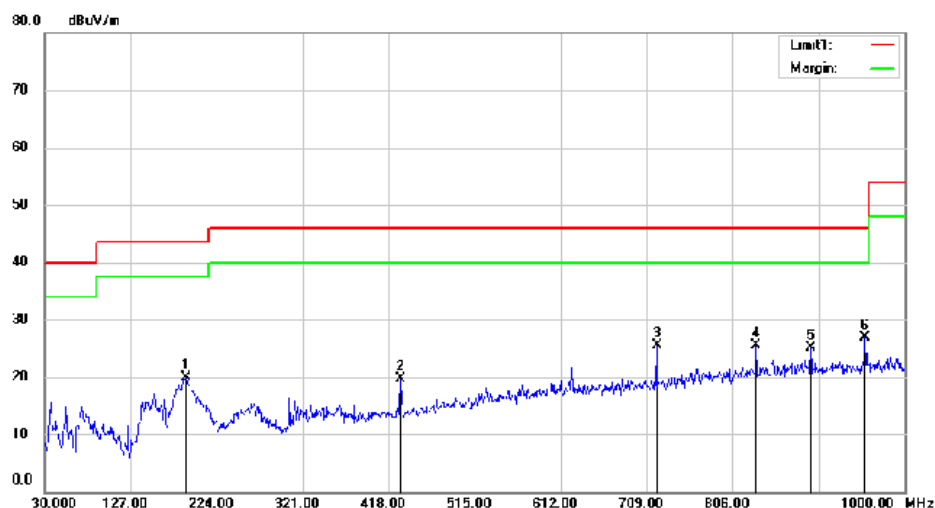


### Radiated Emission Measurement

File :TUV

Data :#898

Date:2016/06/15



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 21 C

Limit: ( RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID721-RB

Mode:11B 2462

Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |        |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|--------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector       | cm           | degree |
| 1   |     | 190.0500 | 52.34         | -32.47         | 19.87       | 43.50  | -23.63 | QP             |              | 0      |
| 2   |     | 431.5800 | 45.89         | -26.15         | 19.74       | 46.00  | -26.26 | QP             |              | 0      |
| 3   |     | 720.6400 | 45.52         | -19.98         | 25.54       | 46.00  | -20.46 | QP             |              | 0      |
| 4   |     | 832.1900 | 43.18         | -17.69         | 25.49       | 46.00  | -20.51 | QP             |              | 0      |
| 5   |     | 894.2700 | 41.65         | -16.60         | 25.05       | 46.00  | -20.95 | QP             |              | 0      |
| 6   | *   | 955.3800 | 42.58         | -15.69         | 26.89       | 46.00  | -19.11 | QP             |              | 0      |

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

Operator: CSL

File :TUV\Data :#898

Page: 1

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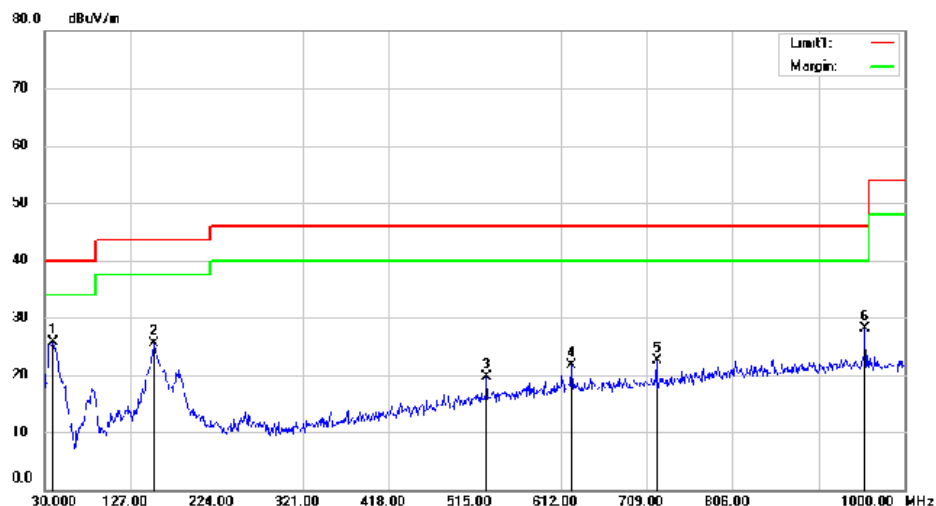


### Radiated Emission Measurement

File :TUV

Data :#899

Date:2016/06/15



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 21 C

Limit: ( RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID721-RB

Mode:11B 2462

Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |        |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|--------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector       | cm           | degree |
| 1   | *   | 39.7000  | 56.36         | -30.65         | 25.71       | 40.00  | -14.29 | QP             |              | 0      |
| 2   |     | 153.1900 | 60.40         | -34.94         | 25.46       | 43.50  | -18.04 | QP             |              | 0      |
| 3   |     | 528.5800 | 43.17         | -23.40         | 19.77       | 46.00  | -26.23 | QP             |              | 0      |
| 4   |     | 624.6100 | 43.01         | -21.29         | 21.72       | 46.00  | -24.28 | QP             |              | 0      |
| 5   |     | 720.6400 | 42.42         | -19.98         | 22.44       | 46.00  | -23.56 | QP             |              | 0      |
| 6   |     | 955.3800 | 43.82         | -15.69         | 28.13       | 46.00  | -17.87 | QP             |              | 0      |

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

Operator: CSL

File :TUV\Data :#899

Page: 1

## 1GHz - 18GHz

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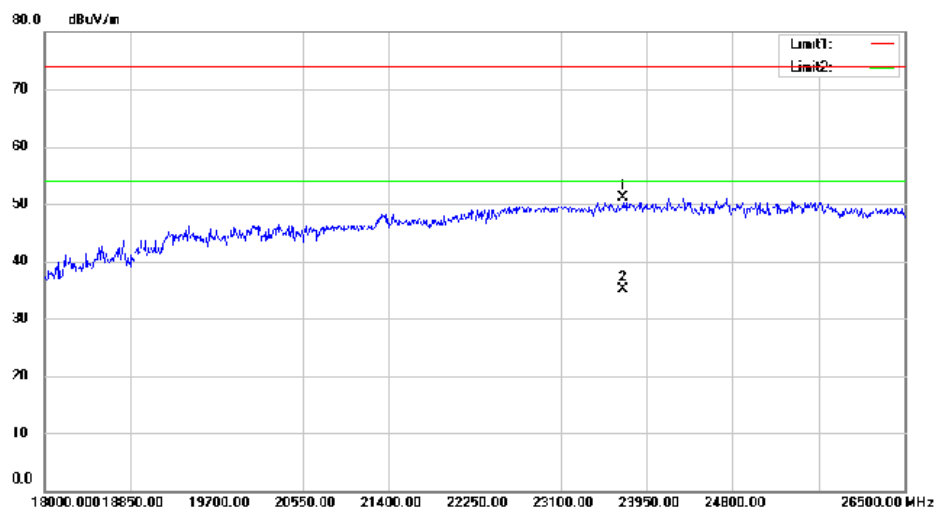


### Radiated Emission Measurement

File :TUV

Data :#1008

Date:2016/06/15



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: ( RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID721-RB

Mode:11B 2412

Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |        |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|--------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector       | cm           | degree |
| 1   |     | 23720.50 | 88.47         | -37.42         | 51.05       | 74.00  | -22.95 | peak           | 0            |        |
| 2   | *   | 23720.50 | 72.62         | -37.42         | 35.20       | 54.00  | -18.80 | AVG            | 0            |        |

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

Operator: KK

File :TUV\Data :#1008

Page: 1

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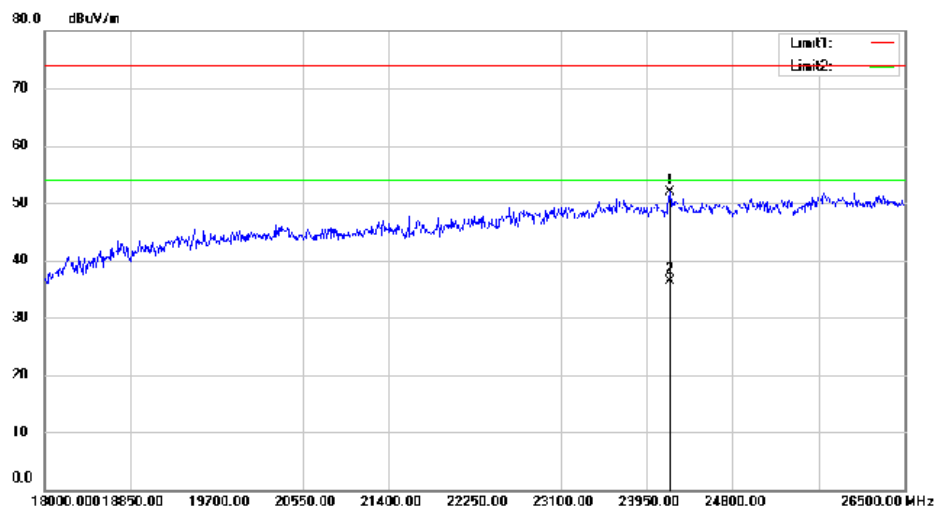


### Radiated Emission Measurement

File :TUV

Data :#1009

Date:2016/06/15



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: ( RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID721-RB

Mode:11B 2412

Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |        |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|--------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector       | cm           | degree |
| 1   |     | 24179.50 | 88.96         | -37.11         | 51.85       | 74.00  | -22.15 | peak           | 0            |        |
| 2   | *   | 24179.50 | 73.41         | -37.11         | 36.30       | 54.00  | -17.70 | AVG            | 0            |        |

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

Operator: KK

File :TUV\Data :#1009

Page: 1

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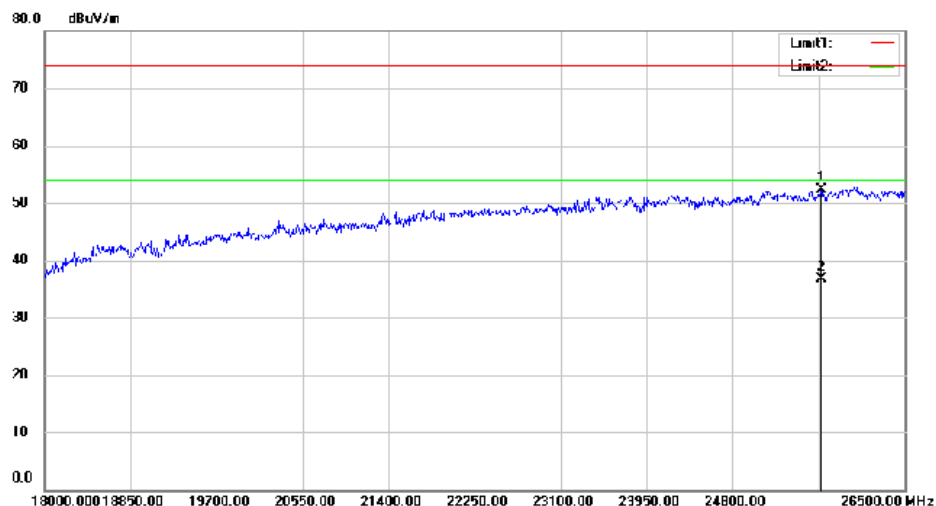


### Radiated Emission Measurement

File :TUV

Data :#1004

Date:2016/06/15



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: ( RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID721-RB

Mode:11B 2437

Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |        |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|--------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector       | cm           | degree |
| 1   |     | 25675.50 | 88.46         | -36.19         | 52.27       | 74.00  | -21.73 | peak           | 0            |        |
| 2   | *   | 25675.50 | 72.89         | -36.19         | 36.70       | 54.00  | -17.30 | AVG            | 0            |        |

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

Operator: KK

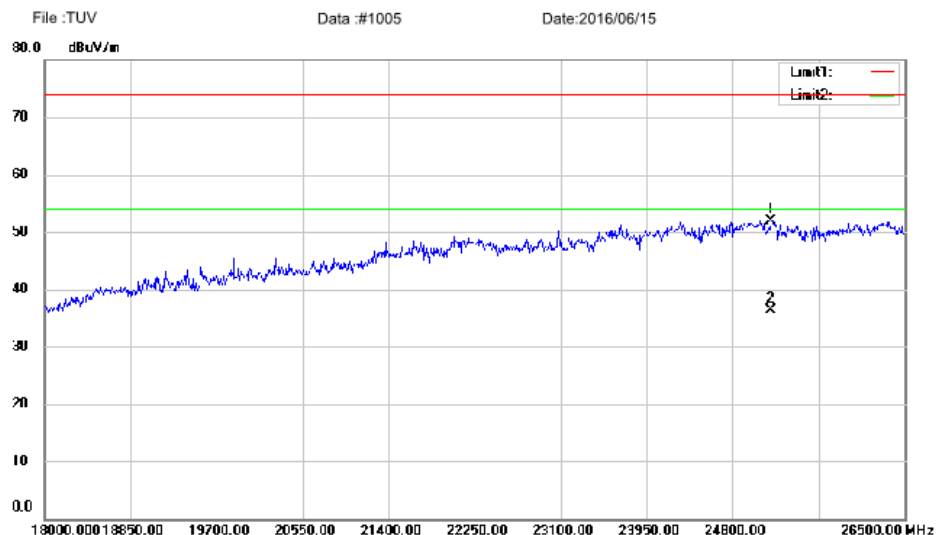
File :TUV\Data :#1004

Page: 1

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### Radiated Emission Measurement



Site: 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C  
Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %  
EUT: MID  
M/N: MID721-RB  
Mode: 11B 2437  
Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | cm             | degree       | Comment |
| 1   |     | 25182.50 | 88.73         | -36.79         | 51.94       | 74.00  | -22.06 | peak           | 0            |         |
| 2   | *   | 25182.50 | 73.19         | -36.79         | 36.40       | 54.00  | -17.60 | AVG            | 0            |         |

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

Operator: KK

File: TUV\Data: #1005

Page: 1

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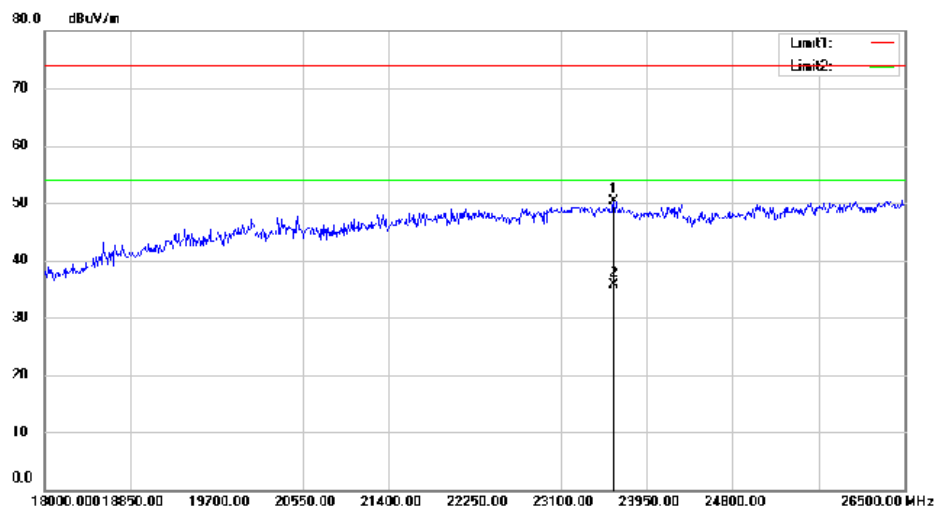


### Radiated Emission Measurement

File :TUV

Data :#1006

Date:2016/06/15



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: ( RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID721-RB

Mode:11B 2462

Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |        |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|--------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector       | cm           | degree |
| 1   |     | 23627.00 | 87.86         | -37.52         | 50.34       | 74.00  | -23.66 | peak           |              | 0      |
| 2   | *   | 23627.00 | 73.22         | -37.52         | 35.70       | 54.00  | -18.30 | AVG            |              | 0      |

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

Operator: KK

File :TUV\Data :#1006

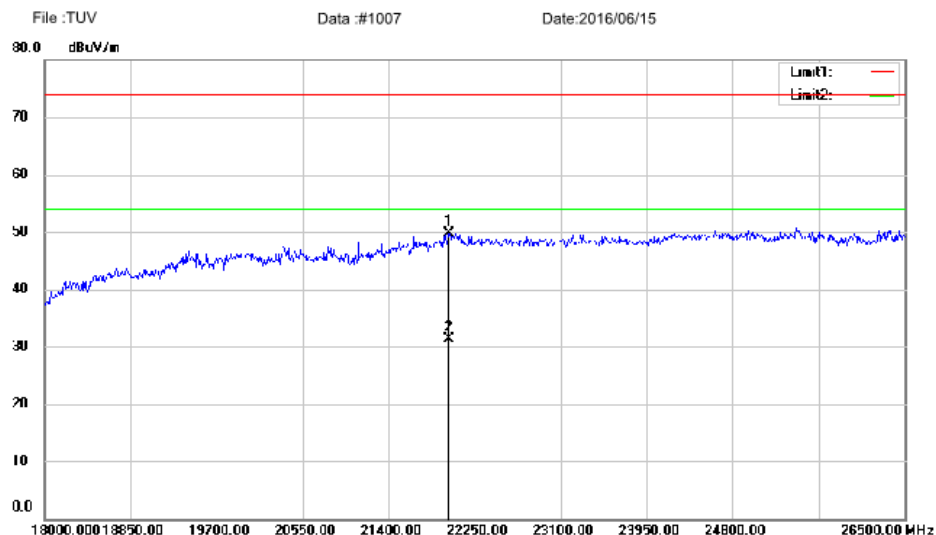
Page: 1



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### Radiated Emission Measurement



Site: 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C  
Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %  
EUT: MID  
M/N: MID721-RB  
Mode: 11B 2462  
Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | cm             | degree       | Comment |
| 1   |     | 21995.00 | 89.95         | -40.20         | 49.75       | 74.00  | -24.25 | peak           | 0            |         |
| 2   | *   | 21995.00 | 71.60         | -40.20         | 31.40       | 54.00  | -22.60 | AVG            | 0            |         |

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

Operator: KK

File: TUV\Data: #1007

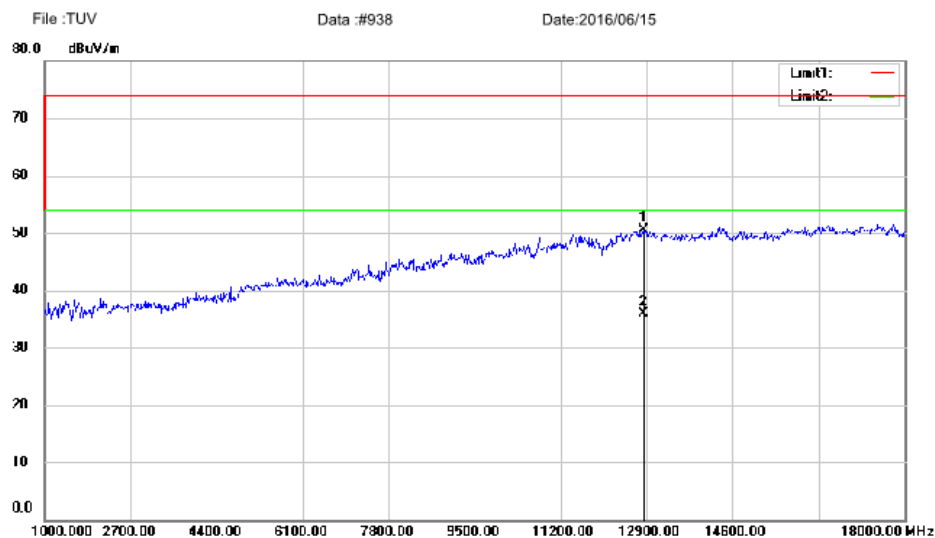
Page: 1

## 18GHz - 26GHz

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### Radiated Emission Measurement



Site: 3m Chamber #3  
Limit: (RE)FCC PART 15 C  
EUT: MID  
M/N: MID721-RB  
Mode: 11B 2412  
Note:

Polarization: **Vertical** Temperature: 24 C  
Power: AC 120V/60Hz Humidity: 53 %

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |        |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|--------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector       | cm           | degree |
| 1   |     | 12832.00 | 63.29         | -12.86         | 50.43       | 74.00  | -23.57 | peak           | 0            |        |
| 2   | *   | 12832.00 | 48.76         | -12.86         | 35.90       | 54.00  | -18.10 | AVG            | 0            |        |

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

Operator:

File: TUV\Data: #938

Page: 1

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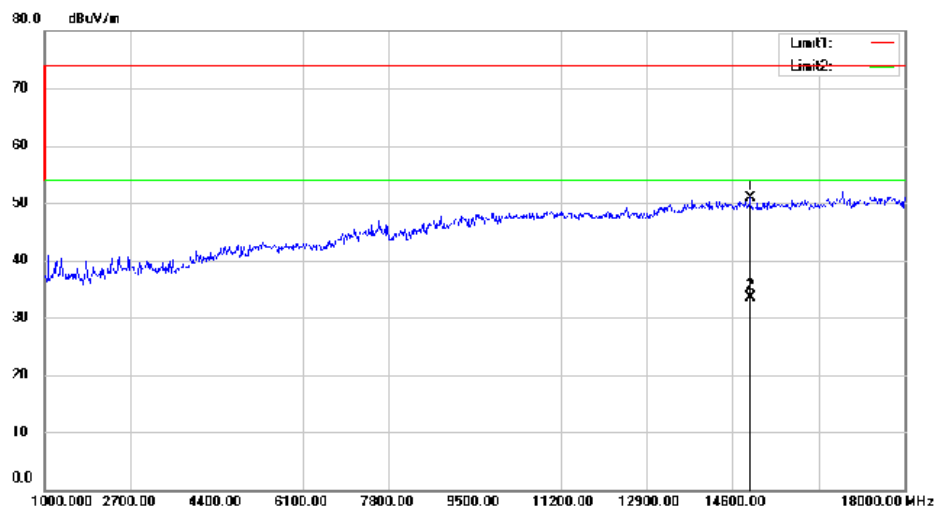


### Radiated Emission Measurement

File :TUV

Data :#939

Date:2016/06/15



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: ( RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID721-RB

Mode:11B 2412

Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |        |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|--------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector       | cm           | degree |
| 1   |     | 14940.00 | 60.37         | -9.48          | 50.89       | 74.00  | -23.11 | peak           | 0            |        |
| 2   | *   | 14940.00 | 43.08         | -9.48          | 33.60       | 54.00  | -20.40 | AVG            | 0            |        |

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

Operator:

File :TUV\Data :#939

Page: 1

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### Radiated Emission Measurement

File :TUV

Data :#940

Date:2016/06/15



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: ( RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID721-RB

Mode:11B 2437

Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | cm             | degree       | Comment |
| 1   |     | 12798.00 | 63.00         | -12.88         | 50.12       | 74.00  | -23.88 | peak           | 0            |         |
| 2   | *   | 12798.00 | 48.28         | -12.88         | 35.40       | 54.00  | -18.60 | AVG            | 0            |         |

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

Operator:

File :TUV\Data :#940

Page: 1