

|                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                    |                                                |                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Prüfbericht-Nr.:</b><br><i>Test report no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                         | 60376695 001                                                                        | <b>Auftrags-Nr.:</b><br><i>Order no.:</i>                                          | 238114490                                      | Seite 1 von 28<br>Page 1 of 28                                                        |
| <b>Kunden-Referenz-Nr.:</b><br><i>Client reference no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                | N/A                                                                                 | <b>Auftragsdatum:</b><br><i>Order date:</i>                                        | 10-Jan-2020                                    |                                                                                       |
| <b>Auftraggeber:</b><br><i>Client:</i>                                                                                                                                                                                                                                                                                                                                                                                                                     | Pamex Inc.<br>PAMEX INC, 4680 VINITA CT, CHINO, CA, 91710, UNITED STATES            |                                                                                    |                                                |                                                                                       |
| <b>Prüfgegenstand:</b><br><i>Test item:</i>                                                                                                                                                                                                                                                                                                                                                                                                                | Enkore                                                                              |                                                                                    |                                                |                                                                                       |
| <b>Bezeichnung / Typ-Nr.:</b><br><i>Identification / Type no.:</i>                                                                                                                                                                                                                                                                                                                                                                                         | KE1-INP35A, KE1-D7P1A                                                               |                                                                                    |                                                |                                                                                       |
| <b>Auftrags-Inhalt:</b><br><i>Order content:</i>                                                                                                                                                                                                                                                                                                                                                                                                           | FCC Part 15C Test report (WiFi 2.4GHz)                                              |                                                                                    |                                                |                                                                                       |
| <b>Prüfgrundlage:</b><br><i>Test specification:</i>                                                                                                                                                                                                                                                                                                                                                                                                        | FCC 47CFR Part 15: Subpart C Section 15.247                                         |                                                                                    |                                                |                                                                                       |
| <b>Wareneingangsdatum:</b><br><i>Date of sample receipt:</i>                                                                                                                                                                                                                                                                                                                                                                                               | 03-Jun-2020                                                                         |                                                                                    |                                                |                                                                                       |
| <b>Prüfmuster-Nr.:</b><br><i>Test sample no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                          | A002839446-001<br>A002839446-002                                                    |                                                                                    |                                                |                                                                                       |
| <b>Prüfzeitraum:</b><br><i>Testing period:</i>                                                                                                                                                                                                                                                                                                                                                                                                             | 09-Jun-2020 – 12-Jun-2020                                                           |                                                                                    |                                                |                                                                                       |
| <b>Ort der Prüfung:</b><br><i>Place of testing:</i>                                                                                                                                                                                                                                                                                                                                                                                                        | EMC/RF Laboratory Taipei                                                            |                                                                                    |                                                |                                                                                       |
| <b>Prüflaboratorium:</b><br><i>Testing laboratory:</i>                                                                                                                                                                                                                                                                                                                                                                                                     | Taipei Testing Laboratories                                                         |                                                                                    |                                                |                                                                                       |
| <b>Prüfergebnis*:</b><br><i>Test result*:</i>                                                                                                                                                                                                                                                                                                                                                                                                              | Pass                                                                                |                                                                                    |                                                |                                                                                       |
| <b>überprüft von:</b><br><i>reviewed by:</i>                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                                                    | <b>genehmigt von:</b><br><i>authorized by:</i> |  |
| <b>Datum:</b> 22-Jun-2020<br><i>Date:</i>                                                                                                                                                                                                                                                                                                                                                                                                                  | Mars Y.J. Lin                                                                       |                                                                                    | <b>Datum:</b> 22-Jun-2020<br><i>Date:</i>      | Ryan W.T. Chen                                                                        |
| <b>Stellung / Position:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                | Project Engineer                                                                    |                                                                                    | <b>Stellung / Position:</b>                    | Project Manager                                                                       |
| <b>Sonstiges / Other:</b><br>KE1-INP35A, KE1-D7P1A use the same parts and RF chip, only the appearance of the door handle is different, the measurement is directly carried out with the worst model. After evaluation, KE1-INP35A is the worst model.                                                                                                                                                                                                     |                                                                                     |                                                                                    |                                                |                                                                                       |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br><i>Condition of the test item at delivery:</i>                                                                                                                                                                                                                                                                                                                                                     |                                                                                     | Prüfmuster vollständig und unbeschädigt<br><i>Test item complete and undamaged</i> |                                                |                                                                                       |
| * Legende:                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 = sehr gut<br>P(ass) = entspricht o.g. Prüfgrundlage(n)                           | 2 = gut<br>F(ail) = entspricht nicht o.g. Prüfgrundlage(n)                         | 3 = befriedigend<br>N/A = nicht anwendbar      | 4 = ausreichend<br>N/T = nicht getestet                                               |
| * Legend:                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1 = very good<br>P(ass) = passed a.m. test specification(s)                         | 2 = good<br>F(ail) = failed a.m. test specification(s)                             | 3 = satisfactory<br>N/A = not applicable       | 4 = sufficient<br>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> |                                                                                     |                                                                                    |                                                |                                                                                       |

V05

## TEST SUMMARY

| Report Section | FCC Clause                  | Test Item                                   | Result |
|----------------|-----------------------------|---------------------------------------------|--------|
| 5.1.1          | 15.247(b) & 15.203          | Antenna Requirement                         | Pass   |
| 5.1.2          | 15.247(b)                   | Peak Output Power                           | Pass   |
| 5.1.3          | 15.247(a)(2)                | 6 dB Bandwidth                              | Pass   |
| 5.1.3          | 2.1049                      | 99% Occupied Bandwidth                      | Pass   |
| 5.1.4          | 15.247(e)                   | Power Spectral Density                      | Pass   |
| 5.1.5          | 15.247(d)                   | Conducted Spurious Emissions and Band Edges | Pass   |
| 5.1.6          | 15.247(d) & 15.205 & 15.209 | Radiated Spurious Emissions and Band Edges  | Pass   |
| 6.1            | 2.1091                      | RF Exposure Compliance                      | Pass   |

**Note:** Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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**APPENDIX A - TEST RESULT OF CONDUCTED**

**APPENDIX B - TEST RESULT OF RADIATED SPURIOUS EMISSIONS**

**APPENDIX C - PHOTO DOCUMENTATION\_TEST SETUP PHOTO**

**APPENDIX D - PHOTO DOCUMENTATION\_EUT PHOTO**

**Prüfbericht - Nr.: 60376695 001**  
*Test Report No.***Seite 5 von 28**  
*Page 5 of 28***HISTORY OF THIS TEST REPORT**

| Report No.   | Description      | Date Issued |
|--------------|------------------|-------------|
| 60376695 001 | Original Release | 22-Jun-2020 |

## 1. General Remarks

### 1.1 Complementary Materials

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

**Appendix A - Test Result of Conducted**

**Appendix B - Test Result of Radiated Spurious Emissions**

**Appendix C - Photo Documentation\_Test Setup Photo**

(File Name: 60376695 001 Appendix C)

**Appendix D - Photo Documentation\_EUT Photo**

(File Name: 60376695 001 Appendix D)

### Applied Standard and Test Levels

| Radio                                       |
|---------------------------------------------|
| FCC CFR47 Part 15: Subpart C Section 15.247 |
| FCC CFR47 Part 2: Subpart J Section 2.1091  |
| ANSI C63.10:2013                            |
| KDB 558074 D01 15.247 Meas Guidance v05r02  |

### 1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

## 2. Test Sites

### 2.1 Test Laboratory

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.  
Taipei City 105  
Taiwan (R.O.C.)

### 2.2 Test Facility

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.  
Taipei City 105  
Taiwan (R.O.C.)  
(Mains Conducted Emission)  
FCC Registration No.: 180491  
ISED Registration No.: 9465A

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,  
New Taipei City 244  
Taiwan (R.O.C.)  
(Conducted Test & Radiated Spurious Emissions)  
FCC Registration No.: 226631  
ISED Registration No.: 25563



## 2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. 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 are:

### Emission Measurement Uncertainty

| Parameter                                            | Uncertainty  |
|------------------------------------------------------|--------------|
| RF power, conducted                                  | $\pm 1.5$ dB |
| Adjacent channel power                               | $\pm 3$ dB   |
| Radiated emission of transmitter, valid up to 26 GHz | $\pm 6$ dB   |
| Radiated emission of receiver, valid up to 26 GHz    | $\pm 6$ dB   |
| Temperature                                          | $\pm 2$ °C   |
| Humidity                                             | $\pm 10$ %   |

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUT is an Enkore. It contains a WLAN compatible module enabling the user to communicate data through a Wireless interface.

For details refer to the User Guide, Data Sheet and Circuit Diagram.

#### 3.2 System Details and Ratings

##### Basic Information of EUT

| Item                        | EUT information       |
|-----------------------------|-----------------------|
| Kind of Equipment/Test Item | Enkore                |
| Type Identification         | KE1-INP35A, KE1-D7P1A |
| FCC ID                      | 2AQ8A-KE1-DNI-A       |

##### Technical Specification of EUT

| Item                      | EUT information                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Operating Frequency       | 2412 MHz ~ 2462 MHz                                                                                                              |
| Channel Spacing           | 5 MHz                                                                                                                            |
| Channel number            | 802.11b/g/n HT20: 11                                                                                                             |
| Data Rate                 | 802.11b: 11.0 / 5.5 / 2.0 / 1.0 Mbps<br>802.11g: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps<br>802.11n: up to MCS7 |
| Operation Voltage         | 6 Vdc                                                                                                                            |
| Modulation                | DSSS (DBPSK, DQPSK, CCK)<br>OFDM (BPSK, QPSK, 16QAM, 64QAM)                                                                      |
| Maximum Output Power (mW) | 802.11b: 33.04<br>802.11g: 66.53<br>802.11n HT20: 66.99                                                                          |
| Antenna Information       | Refer to 5.1.1                                                                                                                   |
| Accessory Device          | Refer to 4.4                                                                                                                     |

Note:

1. All models are listed as below.

| Product Name | Type Identification | Difference     |
|--------------|---------------------|----------------|
| Enkore       | KE1-INP35A          | With Handle    |
|              | KE1-D7P1A           | Without Handle |

### **3.3 Noise Generating and Noise Suppressing Parts**

Refer to the Circuit Diagram.

### **3.4 Submitted Documents**

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

## 4. Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

The test modes were adapted accordingly in reference to the instructions for use.

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output expected by the customer and is going to be fixed on the firmware of the final end product.

**Table for Parameters of Test Software Setting**

| 802.11b |               | 802.11g |               | 802.11n HT20 |               |
|---------|---------------|---------|---------------|--------------|---------------|
| Channel | Power Setting | Channel | Power Setting | Channel      | Power Setting |
| 1       | 0             | 1       | 0             | 1            | 0             |
| 6       | 1             | 6       | 0             | 6            | 0             |
| 11      | 0             | 11      | 0             | 11           | 0             |

### 4.2 Carrier Frequency and Channel

802.11b, 802.11g and 802.11n HT20:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 1       | 2412            | 7       | 2442            |
| 2       | 2417            | 8       | 2447            |
| 3       | 2422            | 9       | 2452            |
| 4       | 2427            | 10      | 2457            |
| 5       | 2432            | 11      | 2462            |
| 6       | 2437            |         |                 |

## 4.3 Test Operation and Test Software

Setup for testing: Test samples are provided with a USB interface which makes it possible to control them through a test software installed on a notebook computer.

This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed as below.

|               |                                               |
|---------------|-----------------------------------------------|
| Test Software | CC3100_CC3200_RadioTool-1.2-windows-installer |
|---------------|-----------------------------------------------|

The samples were used as follows:

A002839446-001

A002839446-002

Full test was applied on all test modes, but only worst case was shown.

The EUT provide one transmitter and receiver.

| Modulation Mode | Tx Function |
|-----------------|-------------|
| 802.11b         | 1TX         |
| 802.11g         | 1TX         |
| 802.11n HT20    | 1TX         |

| EUT Configure Mode | Applicable To                      |                                         |                                         |                          | Description |
|--------------------|------------------------------------|-----------------------------------------|-----------------------------------------|--------------------------|-------------|
|                    | Antenna Port Conducted Measurement | Radiated Spurious Emissions above 1 GHz | Radiated Spurious Emissions below 1 GHz | Mains Conducted Emission |             |
| -                  | √                                  | √                                       | √                                       | -                        | -           |

Note: "-" means no effect.

### Antenna Port Conducted Measurement

☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.

☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Mode         | Available Channel | Tested Channel | Date Rate (Mbps) |
|--------------------|--------------|-------------------|----------------|------------------|
| -                  | 802.11b      | 1 to 11           | 1, 6, 11       | 1.0              |
| -                  | 802.11g      | 1 to 11           | 1, 6, 11       | 6.0              |
| -                  | 802.11n HT20 | 1 to 11           | 1, 6, 11       | MCS0             |

### Radiated Spurious Emissions (Above 1 GHz)

☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.

☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Mode         | Available Channel | Tested Channel | Date Rate (Mbps) |
|--------------------|--------------|-------------------|----------------|------------------|
| -                  | 802.11b      | 1 to 11           | 1, 6, 11       | 1.0              |
| -                  | 802.11g      | 1 to 11           | 1, 6, 11       | 6.0              |
| -                  | 802.11n HT20 | 1 to 11           | 1, 6, 11       | MCS0             |

### Radiated Spurious Emissions (Below 1 GHz)

☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.

☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Mode    | Available Channel | Tested Channel | Date Rate (Mbps) |
|--------------------|---------|-------------------|----------------|------------------|
| -                  | 802.11b | 1 to 11           | 11             | 1.0              |

### Test Condition

| Test Item                                  | Ambient Temperature | Relative Humidity | Tested by         |
|--------------------------------------------|---------------------|-------------------|-------------------|
| Conducted Measurement                      | 22-26 °C            | 50-65 %           | Stanislas Charles |
| Radiated Spurious Emissions<br>above 1 GHz | 22-26 °C            | 50-65 %           | Simon Tsai        |
| Radiated Spurious Emissions<br>below 1 GHz | 22-26 °C            | 50-65 %           | Simon Tsai        |

## 4.4 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

### Accessory of EUT

N/A

### Support Unit

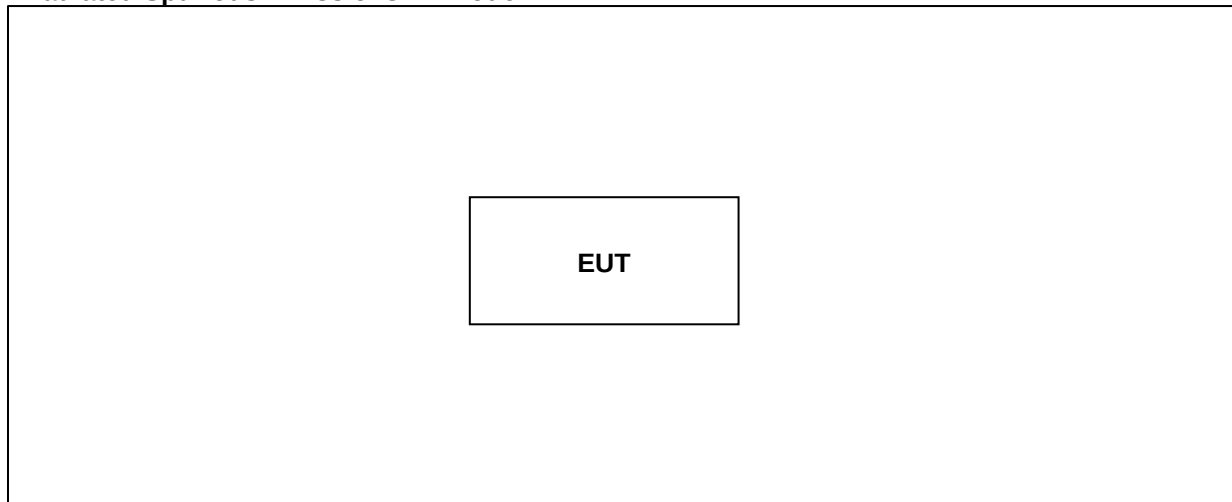
| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|-----------|------------|
| Notebook    | Lenovo       | TP00048A  | PB-0F8B2   |

## 4.5 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

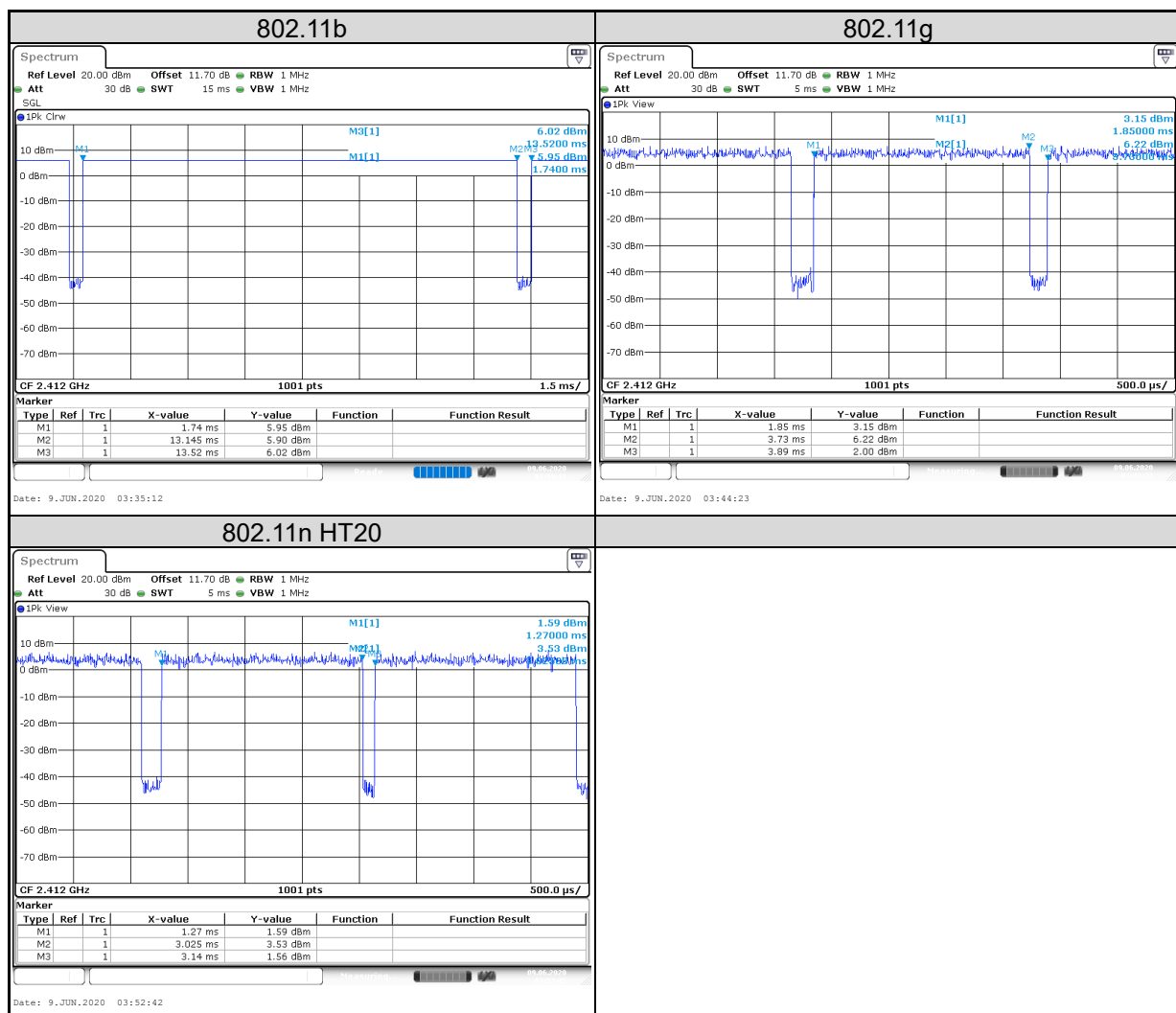
## 4.6 Test Setup Diagram

<Radiated Spurious Emissions Tx mode >



## 4.7 Duty Cycle of Test Signal

| Mode         | On + Off Time (ms) | On Time (ms) | Duty Cycle (%) | Duty Factor (dB) |
|--------------|--------------------|--------------|----------------|------------------|
| 802.11b      | 11.78              | 11.405       | 96.82          | 0.14             |
| 802.11g      | 2.04               | 1.88         | 92.16          | 0.35             |
| 802.11n HT20 | 1.87               | 1.755        | 93.85          | 0.28             |



## 5. Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

**Requirement** Use of approved antennas only

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 3.3 dBi. The antenna is a printed PCB trace with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

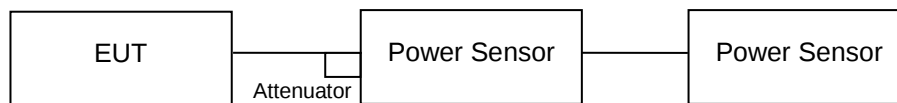
Refer to EUT photo for details.

## 5.1.2 Peak Output Power

**Limit** 1 watt

**Kind of Test Site** Shielded room

### Test Setup



### Test Instruments

| Kind of Equipment | Manufacturer | Type    | S/N     | Calibration Date | Calibration Due Date |
|-------------------|--------------|---------|---------|------------------|----------------------|
| Power Meter       | Anritsu      | ML2495A | 1901008 | 2020/4/6         | 2021/4/5             |
| Power Sensor      | Anritsu      | MA2411B | 1725269 | 2020/4/7         | 2021/4/6             |

### Test Procedures

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

**Test Result**
**Peak Output Power**
**<802.11b>**

| Channel | Channel Frequency (MHz) | Peak Output Power |       | Limit (dBm) |
|---------|-------------------------|-------------------|-------|-------------|
|         |                         | (dBm)             | (mW)  |             |
| 1       | 2412                    | 14.51             | 28.25 | 30          |
| 6       | 2437                    | 15.19             | 33.04 | 30          |
| 11      | 2462                    | 14.84             | 30.48 | 30          |

**<802.11g>**

| Channel | Channel Frequency (MHz) | Peak Output Power |       | Limit (dBm) |
|---------|-------------------------|-------------------|-------|-------------|
|         |                         | (dBm)             | (mW)  |             |
| 1       | 2412                    | 18.10             | 64.57 | 30          |
| 6       | 2437                    | 18.23             | 66.53 | 30          |
| 11      | 2462                    | 18.05             | 63.83 | 30          |

**<802.11n HT20>**

| Channel | Channel Frequency (MHz) | Peak Output Power |       | Limit (dBm) |
|---------|-------------------------|-------------------|-------|-------------|
|         |                         | (dBm)             | (mW)  |             |
| 1       | 2412                    | 18.09             | 64.42 | 30          |
| 6       | 2437                    | 18.26             | 66.99 | 30          |
| 11      | 2462                    | 17.99             | 62.95 | 30          |

**Average Power**
**<802.11b>**

| Channel | Channel Frequency<br>(MHz) | Average Power |       |
|---------|----------------------------|---------------|-------|
|         |                            | (dBm)         | (mW)  |
| 1       | 2412                       | 12.40         | 17.38 |
| 6       | 2437                       | 13.14         | 20.61 |
| 11      | 2462                       | 12.81         | 19.10 |

**<802.11g>**

| Channel | Channel Frequency<br>(MHz) | Average Power |       |
|---------|----------------------------|---------------|-------|
|         |                            | (dBm)         | (mW)  |
| 1       | 2412                       | 12.05         | 16.03 |
| 6       | 2437                       | 13.44         | 22.08 |
| 11      | 2462                       | 12.03         | 15.96 |

**<802.11n HT20>**

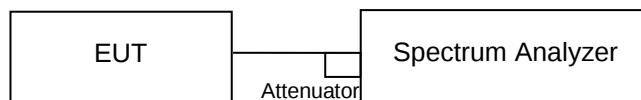
| Channel | Channel Frequency<br>(MHz) | Average Power |       |
|---------|----------------------------|---------------|-------|
|         |                            | (dBm)         | (mW)  |
| 1       | 2412                       | 11.24         | 13.30 |
| 6       | 2437                       | 13.26         | 21.18 |
| 11      | 2462                       | 11.13         | 12.97 |

### 5.1.3 6dB Bandwidth and 99% Occupied Bandwidth

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

**Kind of Test Site** Shielded room

#### Test Setup



#### Test Instruments

| Kind of Equipment   | Manufacturer | Type         | S/N          | Calibration Date | Calibration Due Date |
|---------------------|--------------|--------------|--------------|------------------|----------------------|
| Spectrum Analyzer   | R&S          | FSV40        | 101512       | 2020/2/18        | 2021/2/17            |
| Temp/Humidity Meter | testo        | testo 608-H1 | 45197160/903 | 2019/8/7         | 2020/8/6             |

#### Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz
- Set the video bandwidth (VBW)  $\geq 3 \times$  RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
- For 99% occupied bandwidth measurement, the transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to PEAK. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

#### Test Results

Please refer to Appendix A.

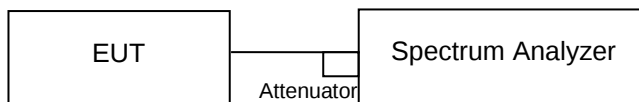
## 5.1.4 Power Spectral Density

### Limit

The power spectral density shall not be greater than 8 dBm in any 3 kHz band.

**Kind of Test Site**                      Shielded room

### Test Setup



### Test Instruments

| Kind of Equipment   | Manufacturer | Type         | S/N          | Calibration Date | Calibration Due Date |
|---------------------|--------------|--------------|--------------|------------------|----------------------|
| Spectrum Analyzer   | R&S          | FSV40        | 101512       | 2020/2/18        | 2021/2/17            |
| Temp/Humidity Meter | testo        | testo 608-H1 | 45197160/903 | 2019/8/7         | 2020/8/6             |

### Test Procedure

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- Set the VBW  $\geq 3 \times \text{RBW}$ .
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

### Test Results

Please refer to Appendix A.

## 5.1.5 Conducted Spurious Emissions and Frequency Band Edges measured in 100kHz Bandwidth

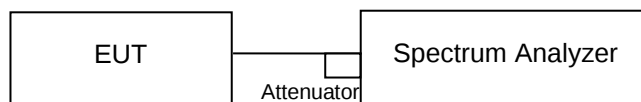
### Limit

20dB (below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.)

### Kind of Test Site

Shielded room

### Test Setup



### Test Instruments

| Kind of Equipment   | Manufacturer | Type         | S/N          | Calibration Date | Calibration Due Date |
|---------------------|--------------|--------------|--------------|------------------|----------------------|
| Spectrum Analyzer   | R&S          | FSV40        | 101512       | 2020/2/18        | 2021/2/17            |
| Temp/Humidity Meter | testo        | testo 608-H1 | 45197160/903 | 2019/8/7         | 2020/8/6             |

### Test Procedure

Measurement procedure REF

1. Set the RBW = 100 kHz.
2. Set the VBW  $\geq$  300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

Measurement procedure OOB

1. Set RBW = 100 kHz.
2. Set VBW  $\geq$  300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

### Test Results

Please refer to Appendix A.

## 5.1.6 Radiated Spurious Emissions and Band Edges

### Limit

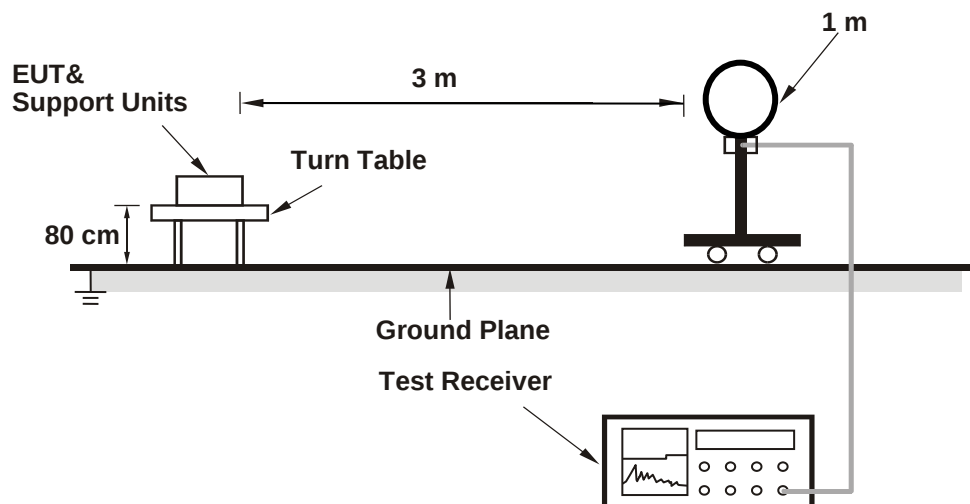
Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must comply with the radiated emission limits specified in §15.209(a).

Emissions radiated outside the restricted and authorized frequency bands must either comply with the radiated emission limits specified for the restricted bands or in §15.247(d).

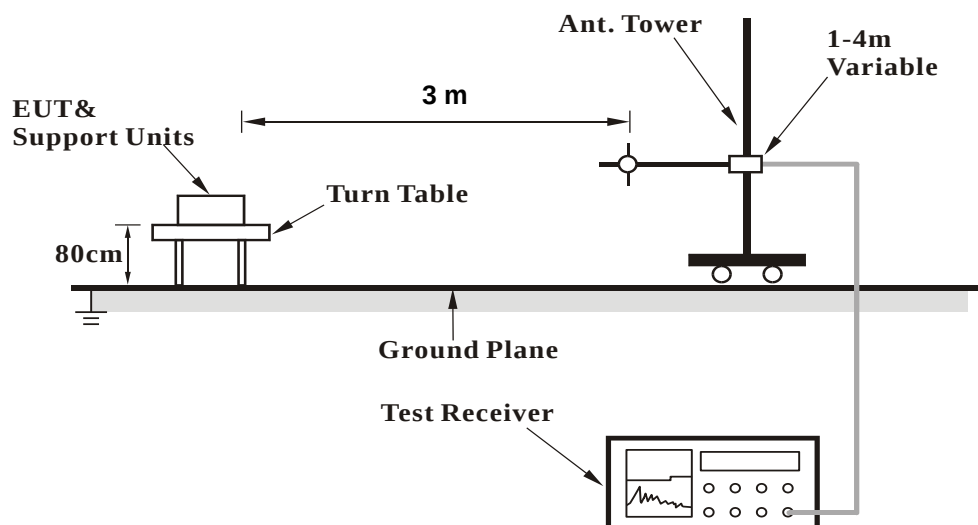
**Kind of Test Site** 3m Semi-Anechoic Chamber

### Test Setup

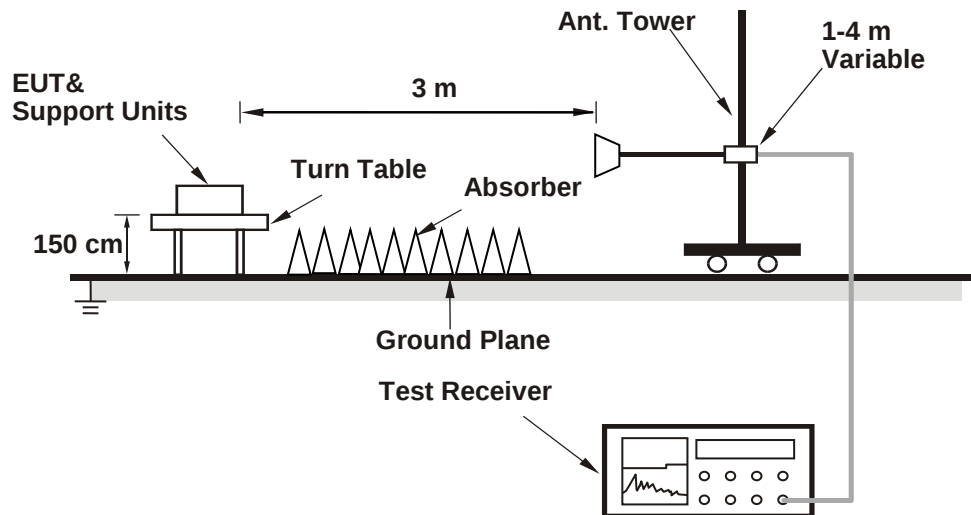
#### <Radiated Emissions below 30 MHz>



#### <Radiated Emissions 30 MHz to 1 GHz>



## &lt;Radiated Emissions above 1 GHz&gt;



For the actual test configuration, please refer to the attached file (Test Setup Photo).

**Test Instruments**

| Kind of Equipment   | Manufacturer | Type           | S/N          | Calibration Date | Calibration Due Date |
|---------------------|--------------|----------------|--------------|------------------|----------------------|
| Signal Analyzer     | R&S          | FSV40          | 101508       | 2020/3/16        | 2021/3/15            |
| Receiver            | R&S          | ESR7           | 102108       | 2020/3/16        | 2021/3/15            |
| Bilog Antenna       | SCHWARZBECK  | VULB-9168      | 00951        | 2020/2/14        | 2021/2/12            |
| Horn Antenna        | ETS-Lindgren | 3117           | 00218930     | 2019/12/6        | 2020/12/4            |
| LF-AMP              | Agilent      | 8447D          | 2944A10772   | 2020/2/11        | 2021/2/9             |
| HF-AMP + AC source  | EMCI         | EMC051845SE    | 980633       | 2020/2/17        | 2021/2/15            |
| HF-AMP + AC source  | EMCI         | EMC184045SE    | 980657       | 2020/2/17        | 2021/2/15            |
| Horn Antenna        | SCHWARZBECK  | BBHA 9170      | 00887        | 2020/4/10        | 2021/4/10            |
| Microwave Cable     | HUBER+SUHNER | SUCOFLEX 104EA | 800056/4EA   | 2020/3/25        | 2021/3/25            |
| Microwave Cable     | HUBER+SUHNER | SUCOFLEX 104   | 804680/4     | 2020/3/25        | 2021/3/25            |
| Microwave Cable     | HUBER+SUHNER | SUCOFLEX 104   | MY37202/4    | 2020/3/25        | 2021/3/25            |
| Microwave Cable     | HUBER+SUHNER | SUCOFLEX 102EA | 800898/2EA   | 2020/4/22        | 2021/4/22            |
| Microwave Cable     | HUBER+SUHNER | SUCOFLEX 102EA | 800901/2EA   | 2020/4/22        | 2021/4/22            |
| Microwave Cable     | HUBER+SUHNER | SUCOFLEX 102EA | 801027/2EA   | 2020/4/22        | 2021/4/22            |
| Temp/Humidity Meter | testo        | testo 608-H1   | 45197168/903 | 2019/8/7         | 2020/8/5             |

**Test Procedures****For Radiated Emissions below 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

**Note:** The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.

**For Radiated Emissions above 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

**Note:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle  $< 98\%$ ) or 10 Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1 GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The Radiated Emissions testing was performed in the X, Y and Z axis orientation. The worst-case Axis orientation is recorded in this test report.

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*Test Report No.*

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**Test Results**

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

Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix B.

## 6. Safety Human Exposure

### 6.1 RF Exposure Compliance

#### 6.1.1 Power Density

##### Results

Separation distance is more than 20 cm, thus mobile device exposure limits can be applied.

##### Maximum Exposure:

|                           |                          |
|---------------------------|--------------------------|
| Power to Antenna<br>(mW)  | 66.99 mW                 |
| Power to Antenna<br>(dBm) | 18.3 dBm                 |
| Antenna Gain              | 3.3 dBi                  |
| Power+Ant Gain            | 143.2 mW                 |
| Distance                  | 20 cm                    |
| S=                        | 0.028 mW/cm <sup>2</sup> |

Limit: 1 mW/cm<sup>2</sup>

##### Limit

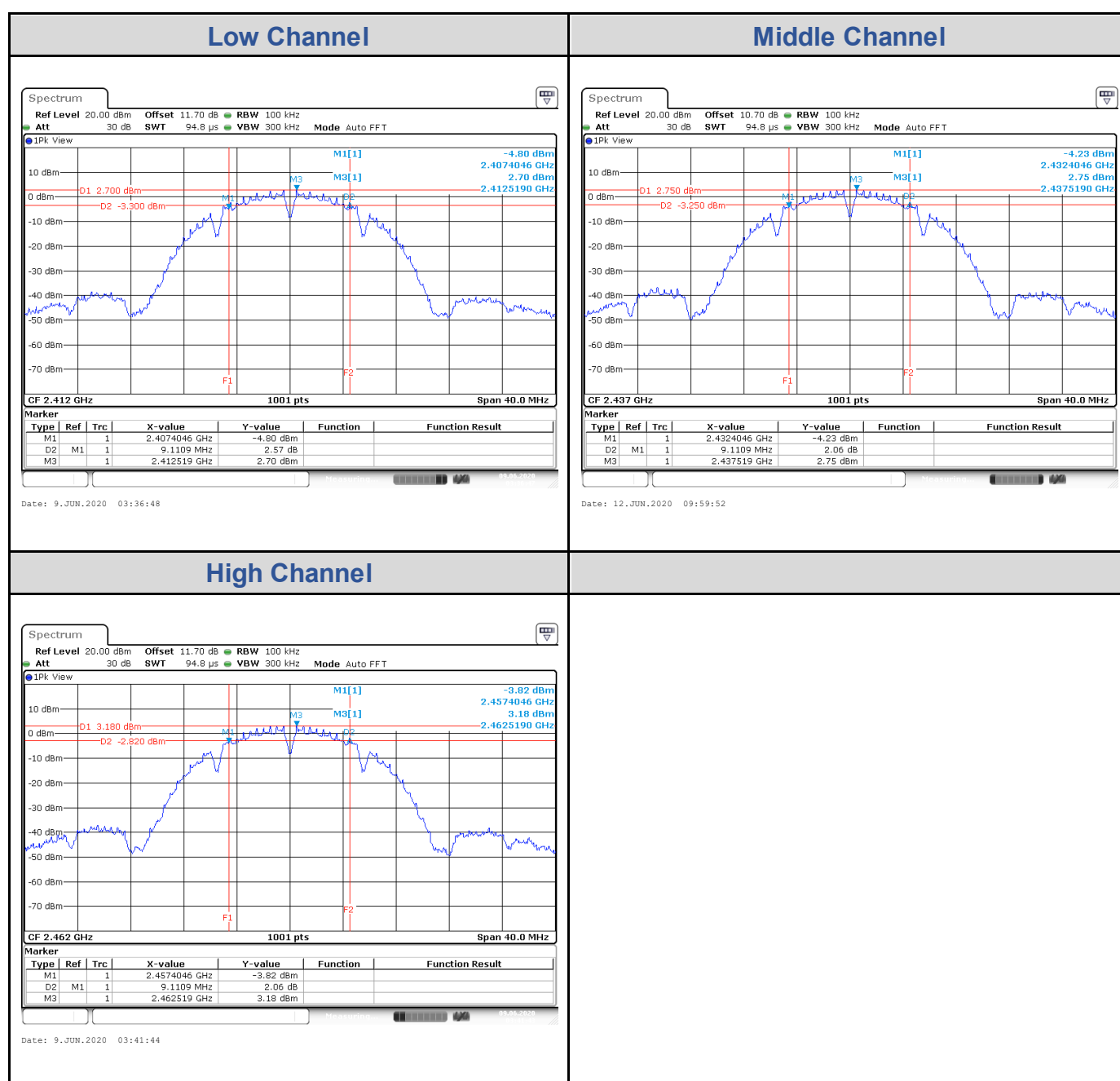
|                  |                                          |
|------------------|------------------------------------------|
| 0.3-1.34 MHz     | (100) mW/cm <sup>2</sup>                 |
| 1.34-30 MHz      | (180/f <sup>2</sup> ) mW/cm <sup>2</sup> |
| 30-300 MHz       | 0.2 mW/cm <sup>2</sup>                   |
| 300-1500 MHz     | f/1500 mW/cm <sup>2</sup>                |
| 1500-100,000 MHz | 1.0 mW/cm <sup>2</sup>                   |

## Appendix A: Test Results of Conducted Test

### Test Result of 6 dB Bandwidth

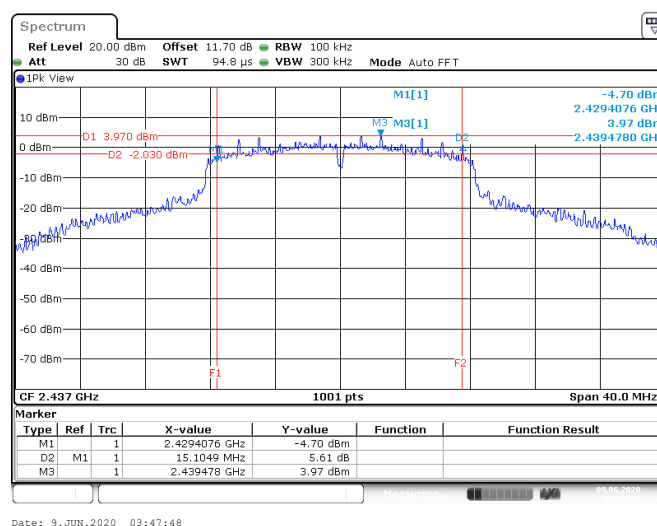
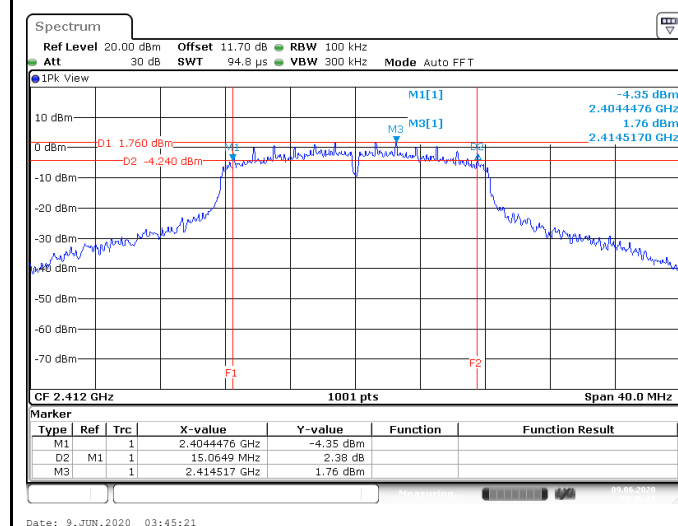
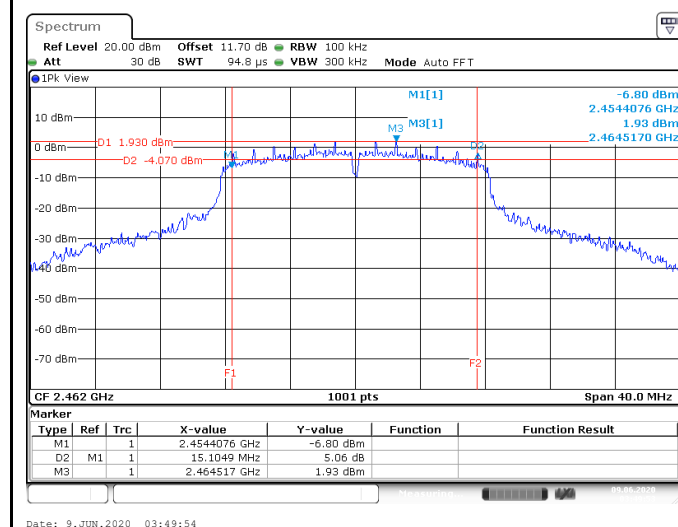
#### 802.11b

| Channel        | Channel Frequency (MHz) | 6 dB Bandwidth (kHz) | Limit (kHz) | Result |
|----------------|-------------------------|----------------------|-------------|--------|
| Low Channel    | 2412                    | 9110.90              | 500         | Pass   |
| Middle Channel | 2437                    | 9110.90              | 500         | Pass   |
| High Channel   | 2462                    | 9110.90              | 500         | Pass   |



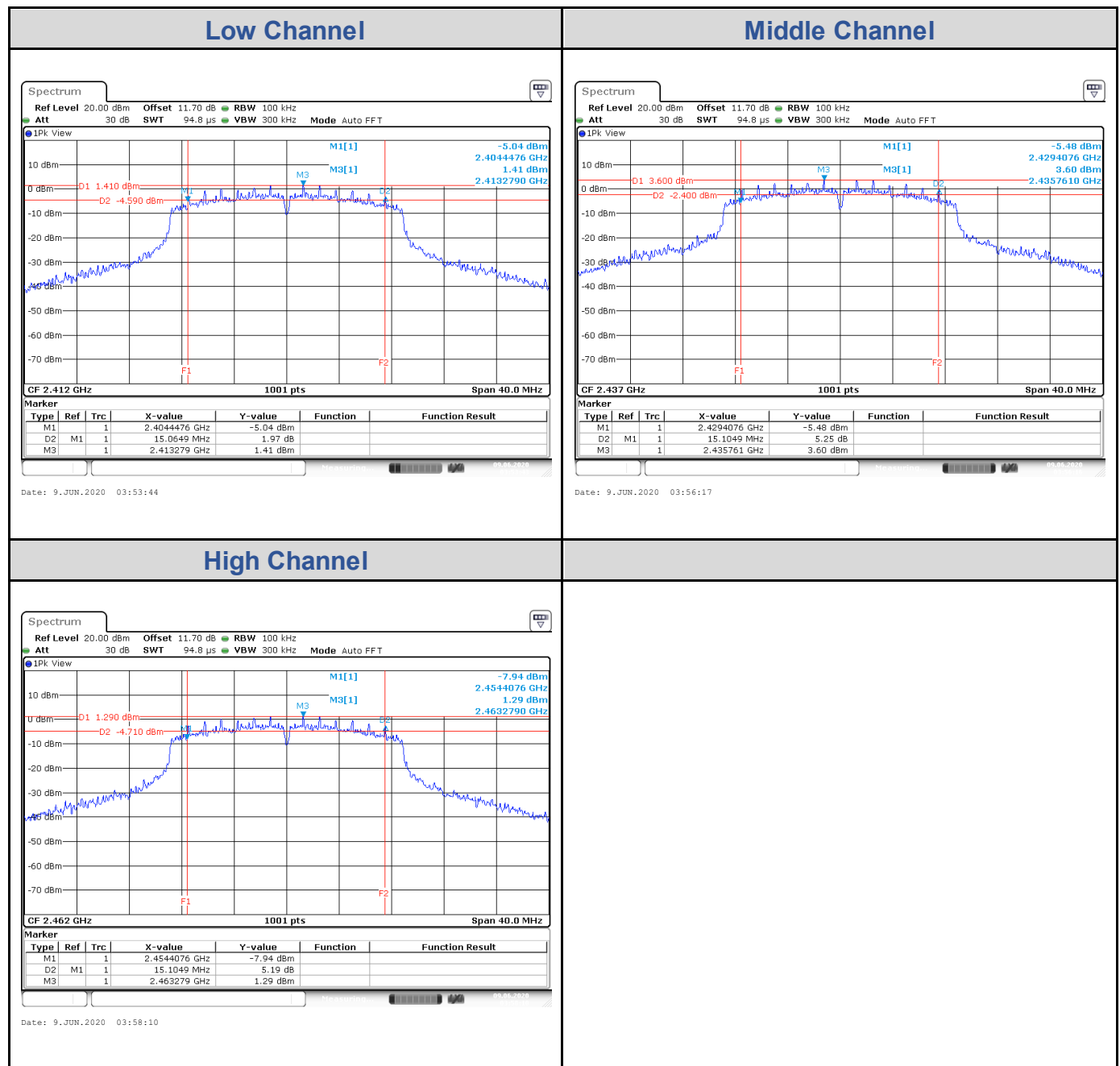
**802.11g**

| Channel        | Channel Frequency (MHz) | 6 dB Bandwidth (kHz) | Limit (kHz) | Result |
|----------------|-------------------------|----------------------|-------------|--------|
| Low Channel    | 2412                    | 15064.90             | 500         | Pass   |
| Middle Channel | 2437                    | 15104.90             | 500         | Pass   |
| High Channel   | 2462                    | 15104.90             | 500         | Pass   |

**Low Channel**
**Middle Channel**

**High Channel**


**802.11n HT20**

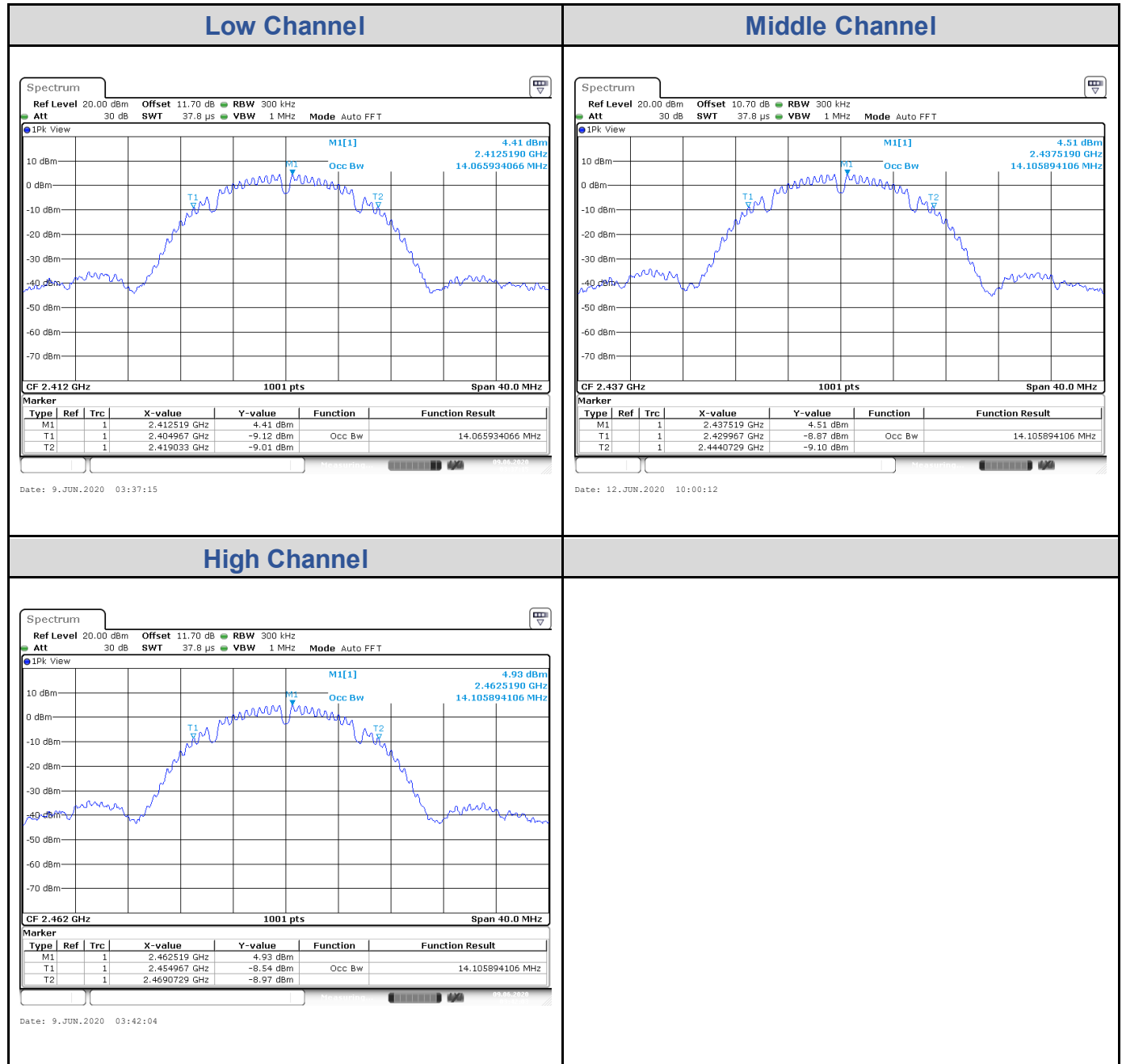
| Channel        | Channel Frequency (MHz) | 6 dB Bandwidth (kHz) | Limit (kHz) | Result |
|----------------|-------------------------|----------------------|-------------|--------|
| Low Channel    | 2412                    | 15064.90             | 500         | Pass   |
| Middle Channel | 2437                    | 15104.90             | 500         | Pass   |
| High Channel   | 2462                    | 15104.90             | 500         | Pass   |



## Test Result of 99% Occupied Bandwidth

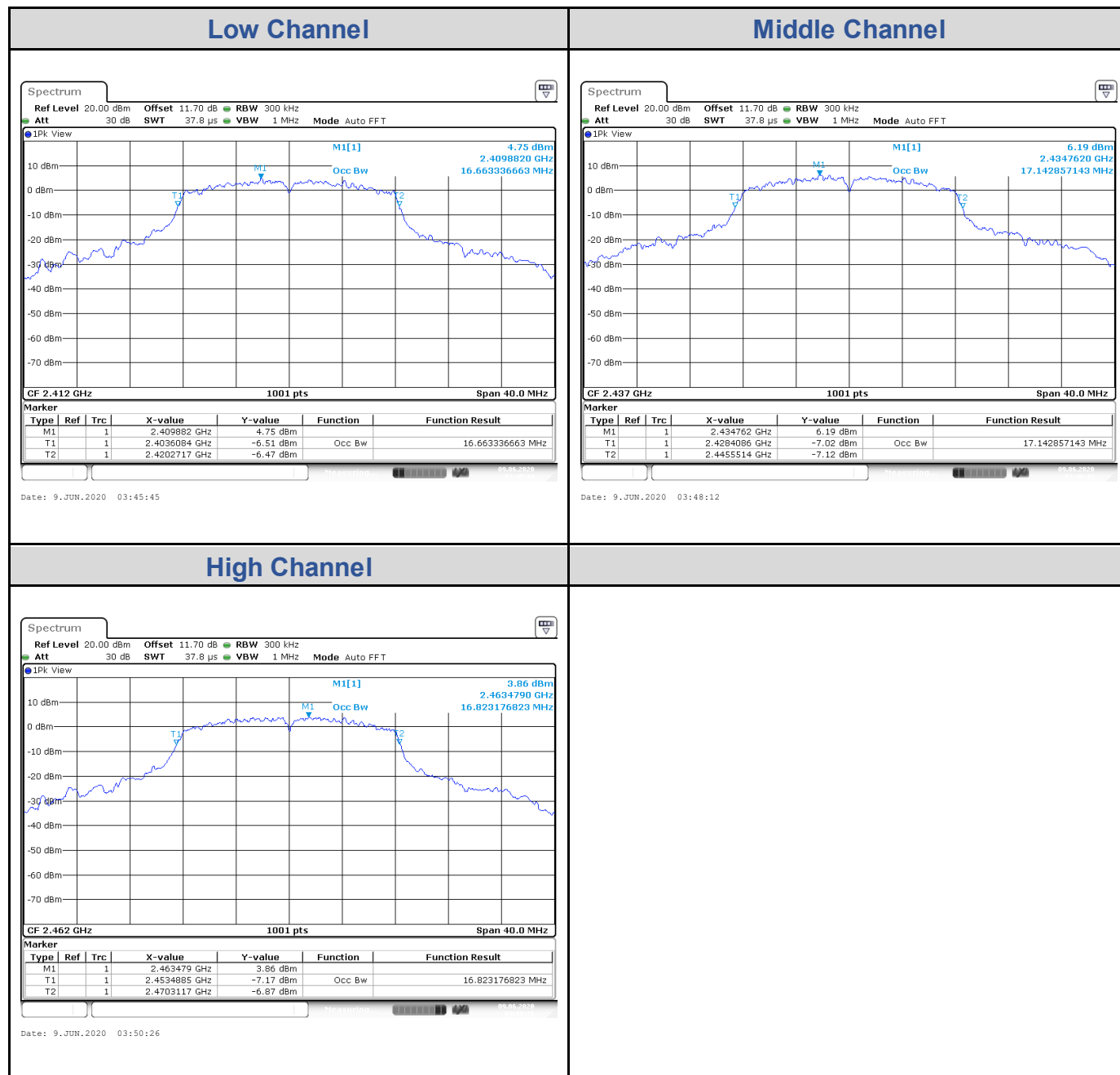
### 802.11b

| Channel        | Channel Frequency (MHz) | 99% Bandwidth (kHz) |
|----------------|-------------------------|---------------------|
| Low Channel    | 2412                    | 14065.93            |
| Middle Channel | 2437                    | 14105.89            |
| High Channel   | 2462                    | 14105.89            |



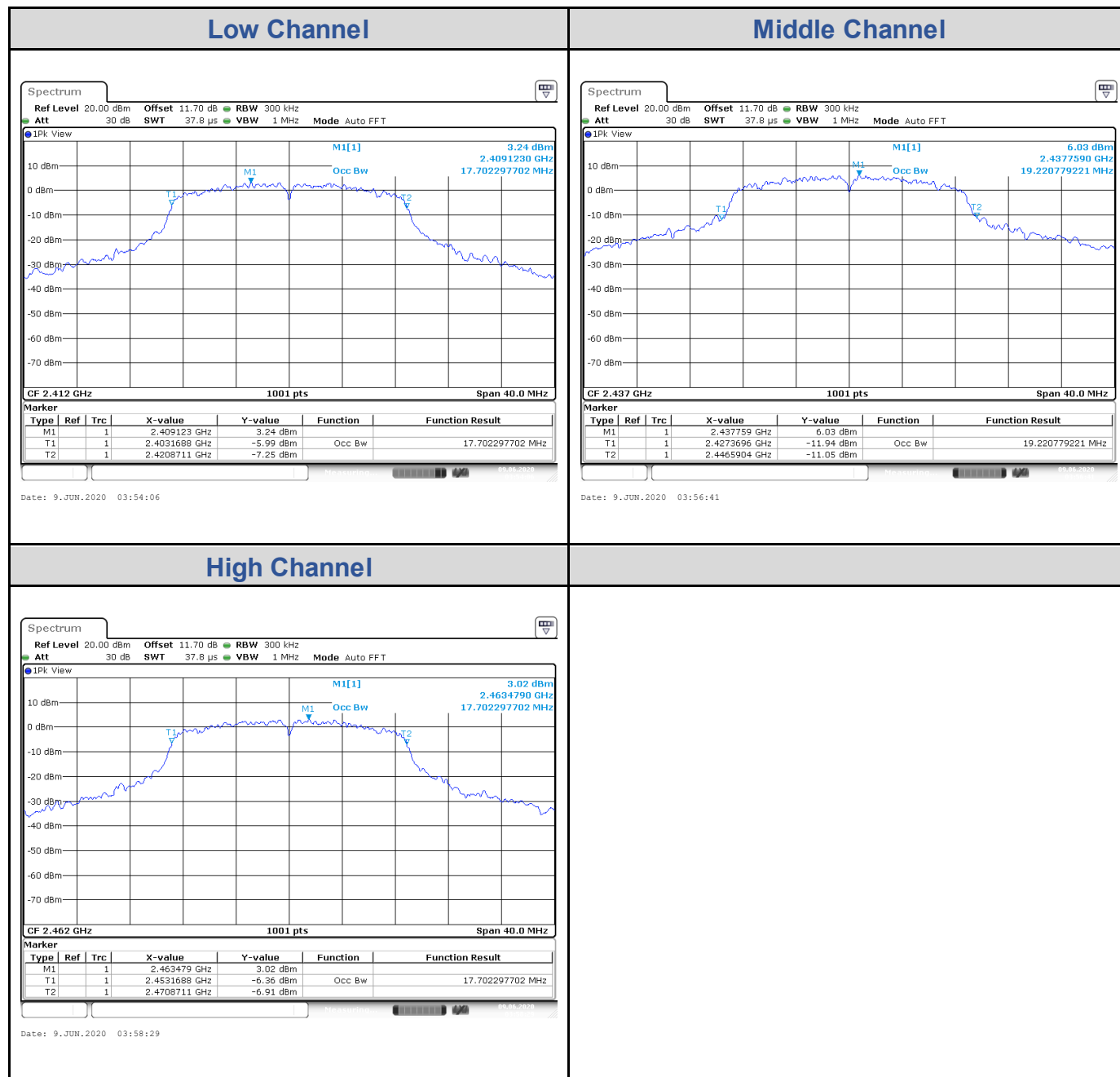
**802.11g**

| Channel        | Channel Frequency (MHz) | 99% Bandwidth (kHz) |
|----------------|-------------------------|---------------------|
| Low Channel    | 2412                    | 16663.34            |
| Middle Channel | 2437                    | 17142.86            |
| High Channel   | 2462                    | 16823.18            |

**Low Channel**
**Middle Channel**


**802.11n HT20**

| Channel        | Channel Frequency (MHz) | 99% Bandwidth (kHz) |
|----------------|-------------------------|---------------------|
| Low Channel    | 2412                    | 17702.30            |
| Middle Channel | 2437                    | 19220.78            |
| High Channel   | 2462                    | 17702.30            |

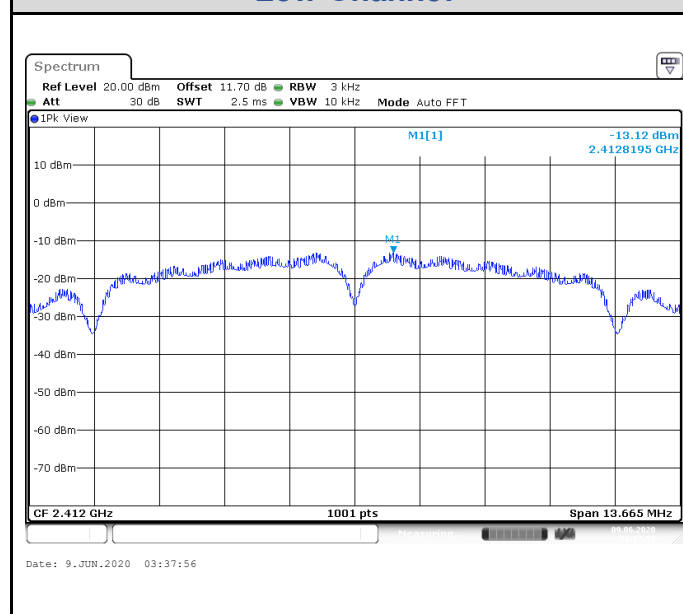
**Low Channel**
**Middle Channel**


## Test Result of Power Spectral Density

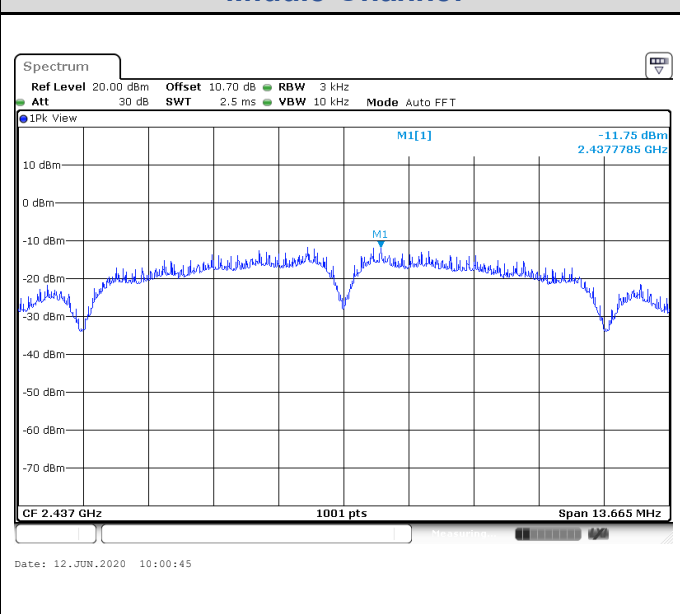
**802.11b**

| Channel        | Channel Frequency (MHz) | Power Density (dBm/3kHz) | Limit (dBm/3kHz) |
|----------------|-------------------------|--------------------------|------------------|
| Low Channel    | 2412                    | -13.12                   | 8                |
| Middle Channel | 2437                    | -11.75                   | 8                |
| High Channel   | 2462                    | -12.82                   | 8                |

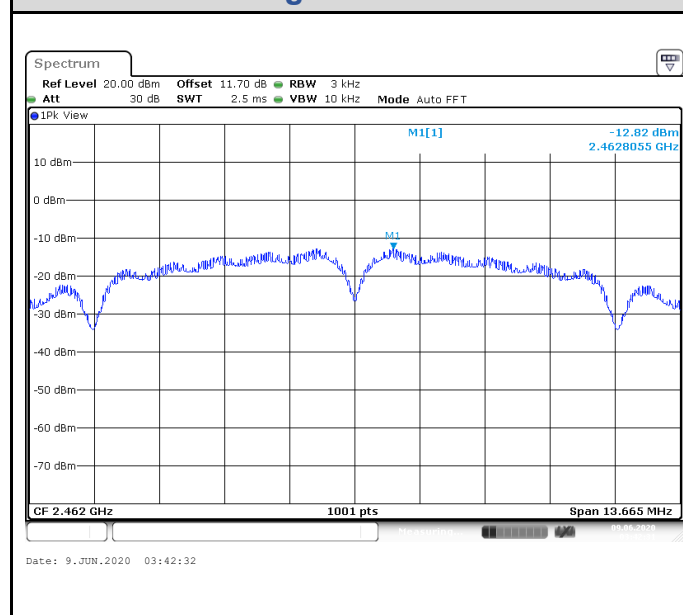
### Low Channel



### Middle Channel

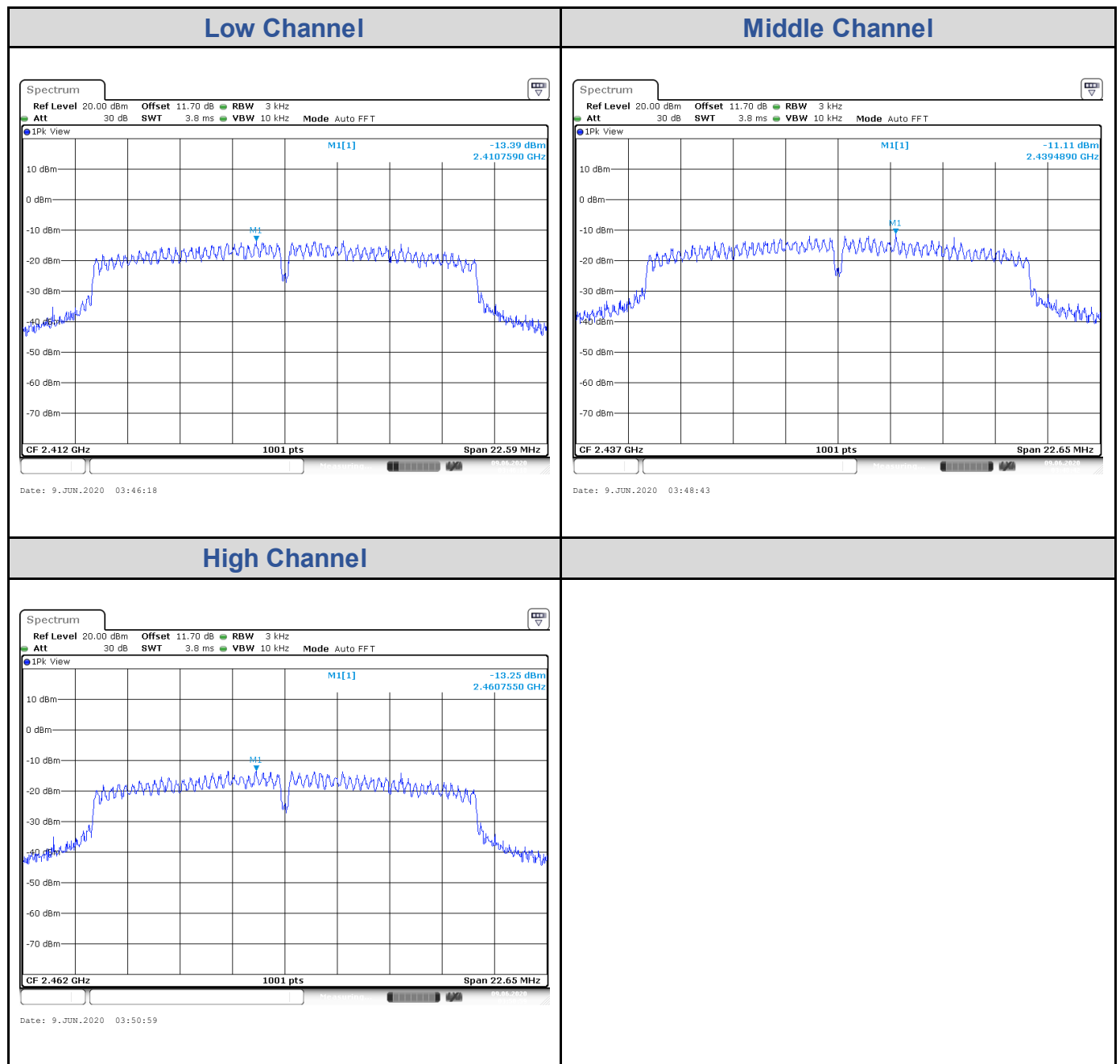


### High Channel



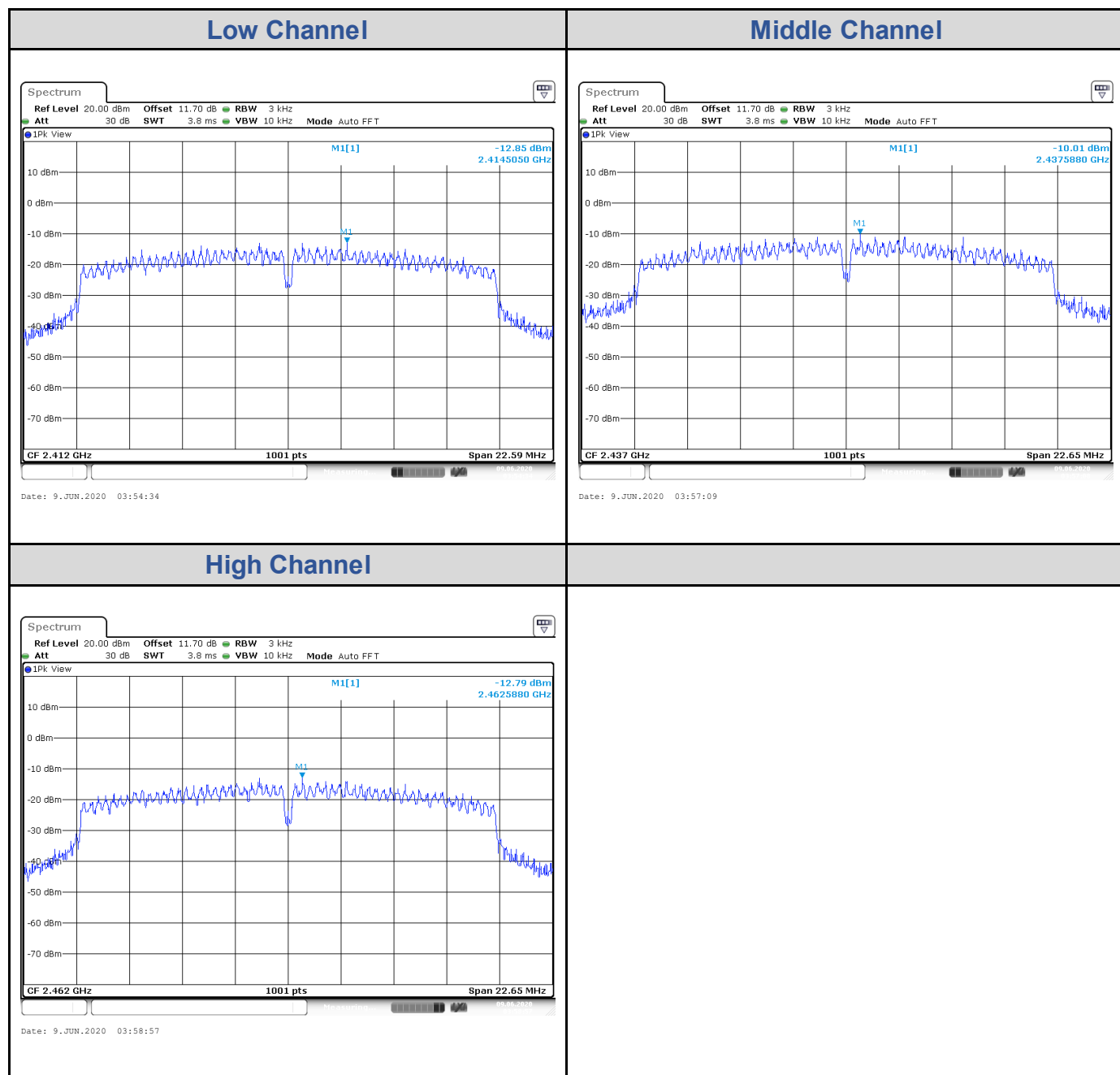
**802.11g**

| Channel        | Channel Frequency (MHz) | Power Density (dBm/3kHz) | Limit (dBm/3kHz) |
|----------------|-------------------------|--------------------------|------------------|
| Low Channel    | 2412                    | -13.39                   | 8                |
| Middle Channel | 2437                    | -11.11                   | 8                |
| High Channel   | 2462                    | -13.25                   | 8                |



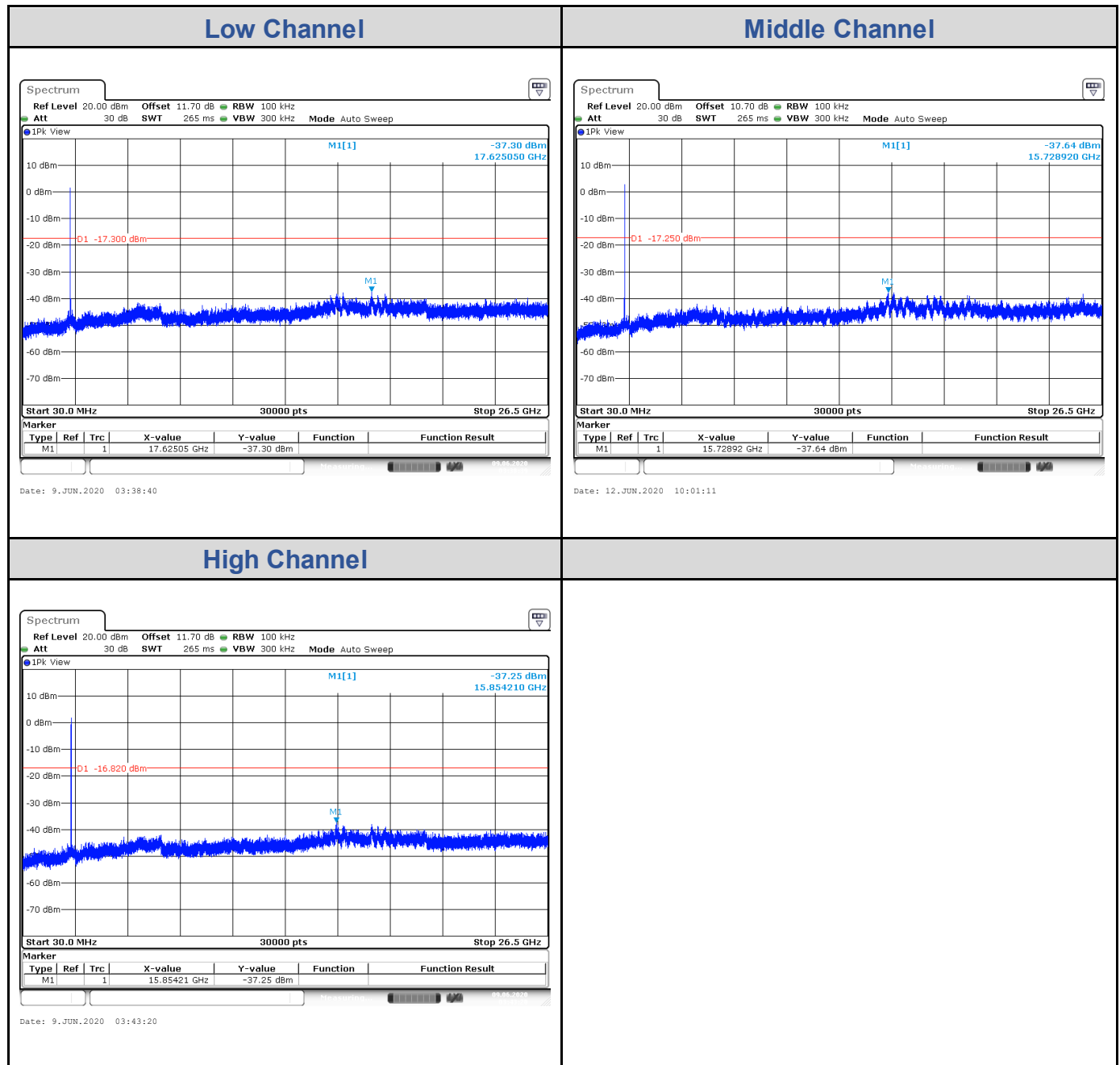
## 802.11n HT20

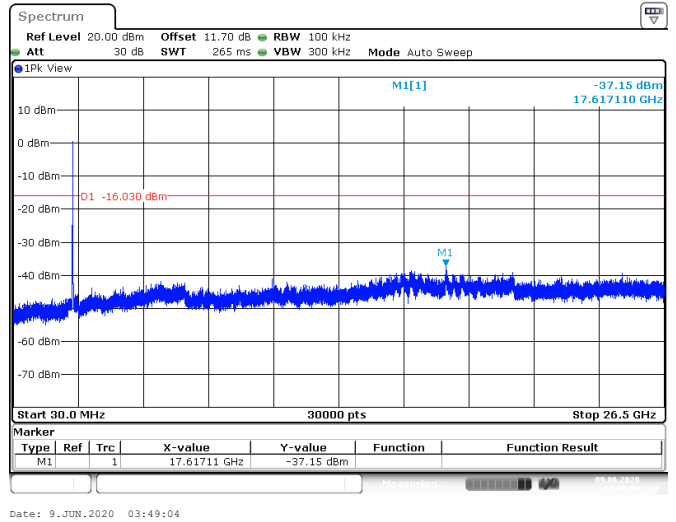
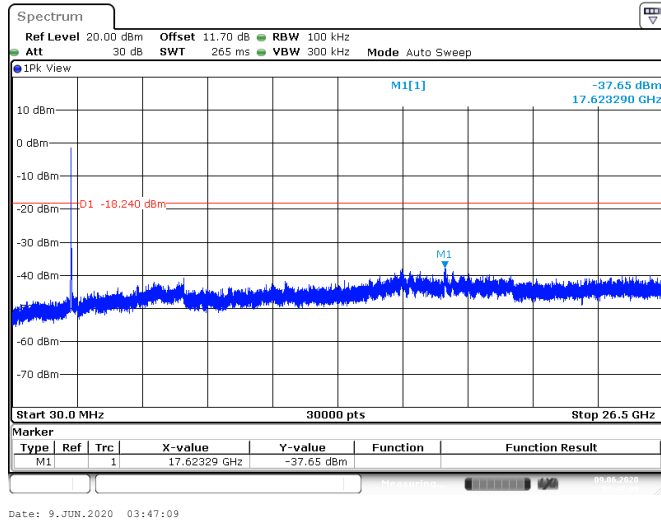
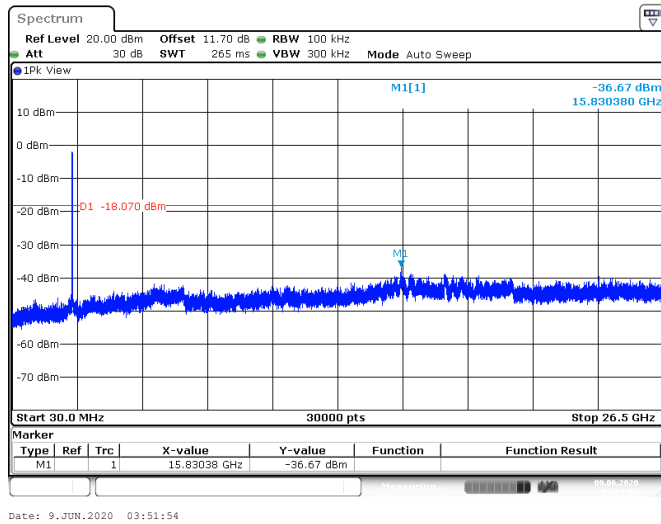
| Channel        | Channel Frequency (MHz) | Power Density (dBm/3kHz) | Limit (dBm/3kHz) |
|----------------|-------------------------|--------------------------|------------------|
| Low Channel    | 2412                    | -12.85                   | 8                |
| Middle Channel | 2437                    | -10.01                   | 8                |
| High Channel   | 2462                    | -12.79                   | 8                |

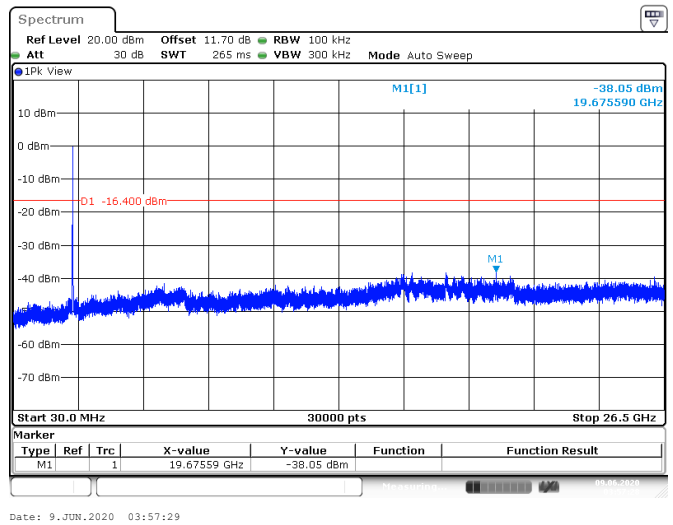
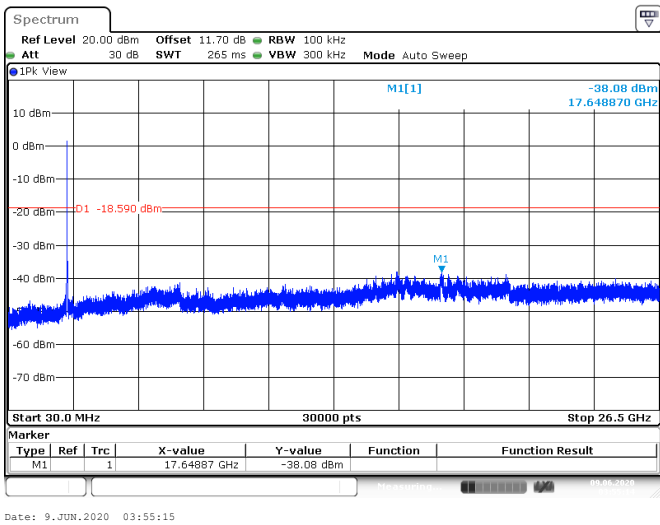
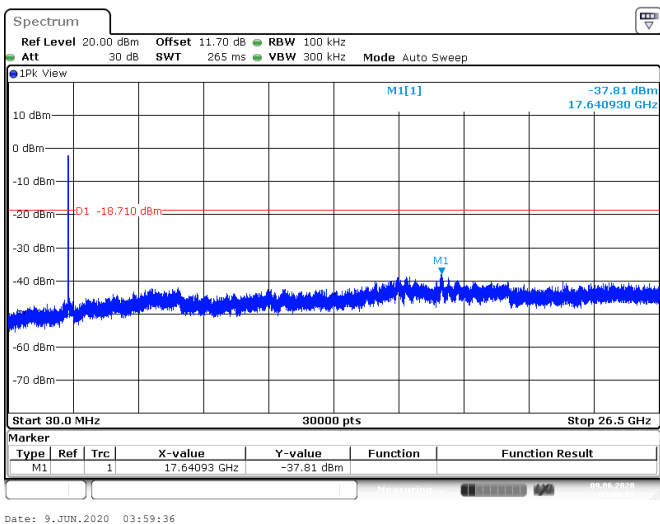


## Test Result of Conducted Spurious Emissions

### 802.11b

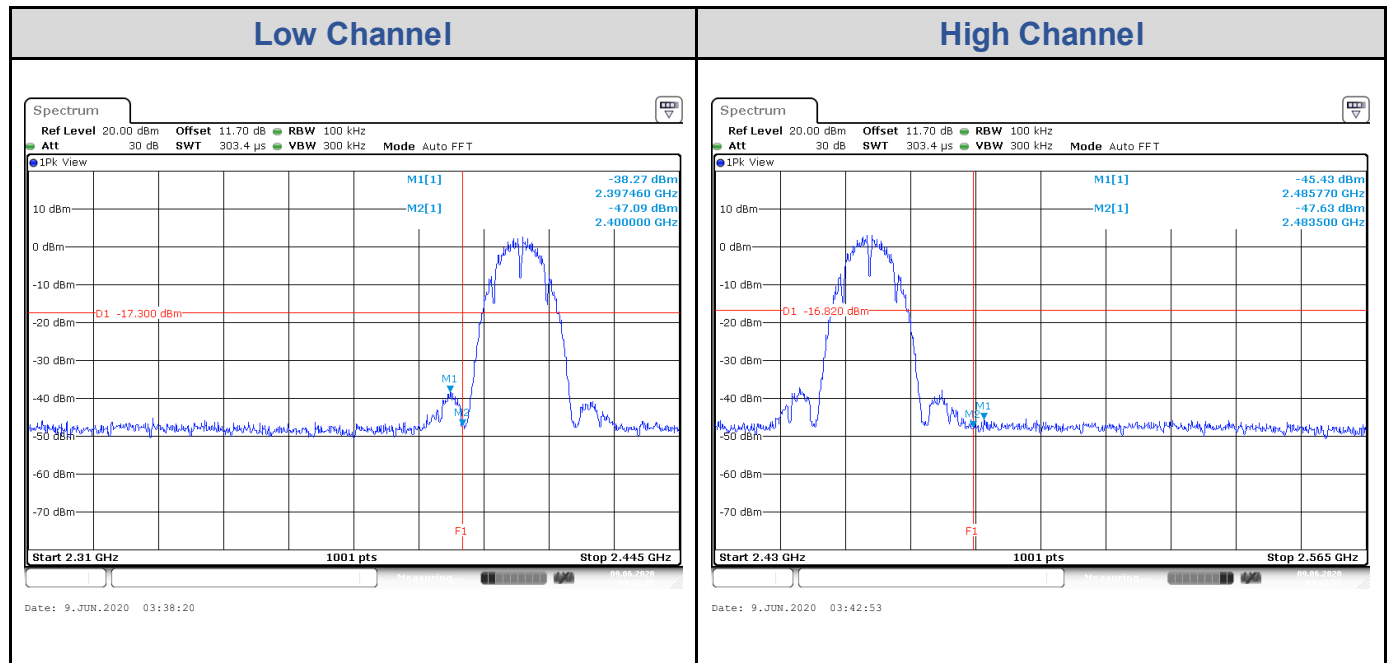


**802.11g**
**Low Channel**
**Middle Channel**

**High Channel**


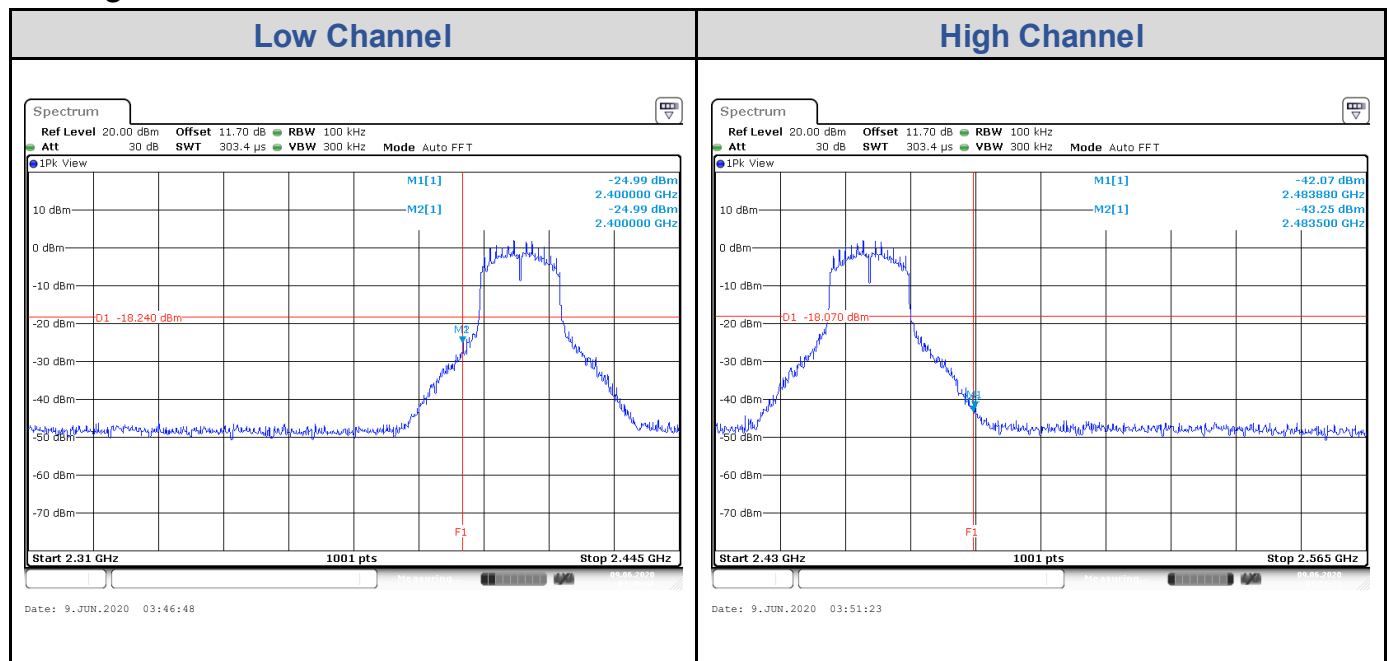
**802.11n HT20**
**Low Channel**
**Middle Channel**

**High Channel**


## Test Result of Conducted Bandedge, Tx Mode

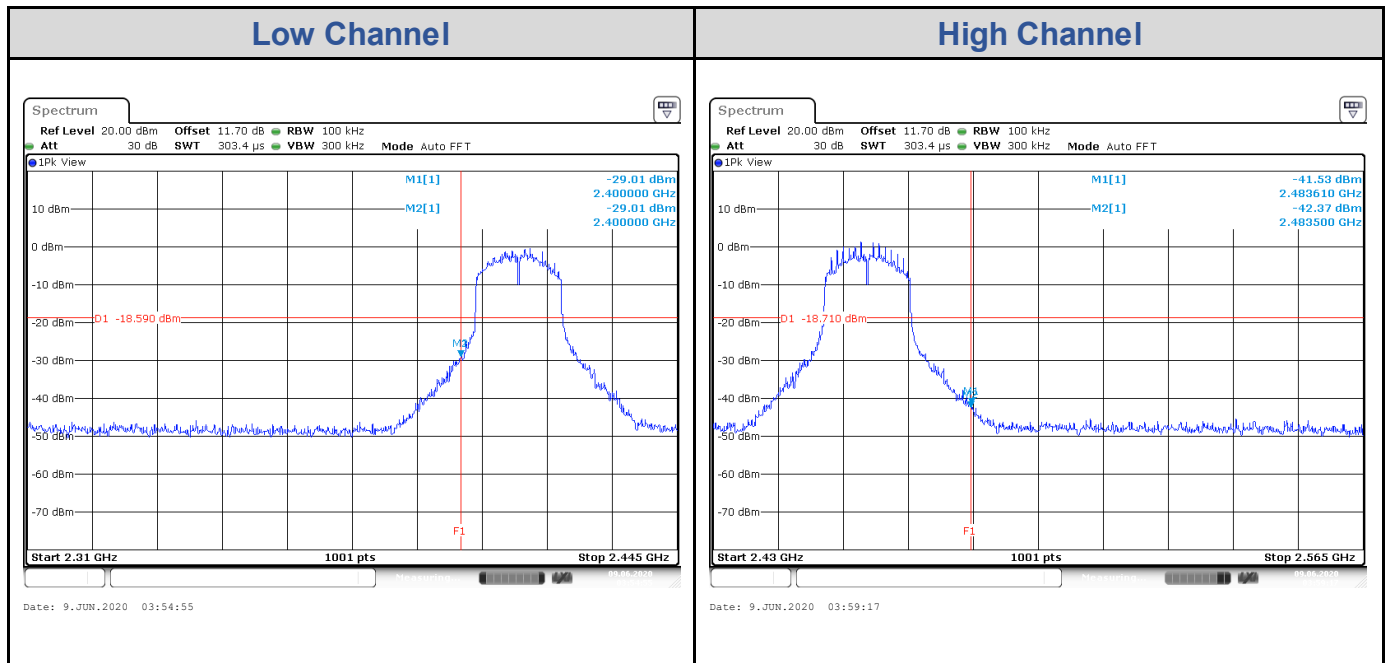
**802.11b**



**802.11g**



**802.11n HT20**



## Appendix B: Test Results of Radiated Spurious Emissions

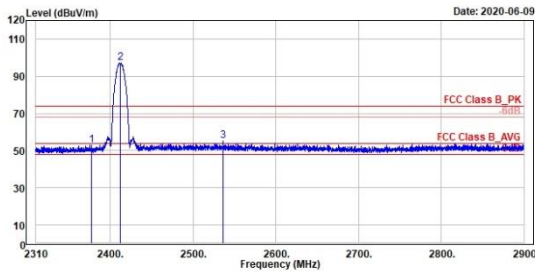
### Band Edges, 2.35GHz ~ 2.5GHz

**802.11b**

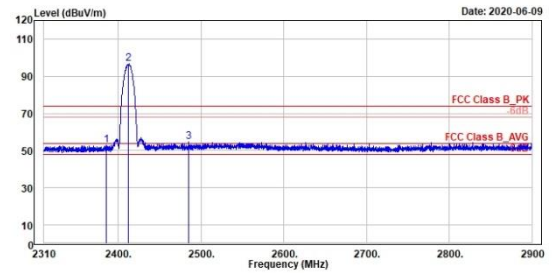
#### Low Channel (Horizontal) Peak



TÜV Rheinland Taiwan Ltd.  
No. 438-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)  
Tel: +886-2172-1000 Fax: +886-2172-1322



TÜV Rheinland Taiwan Ltd.  
No. 438-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)  
Tel: +886-2172-1000 Fax: +886-2172-1322

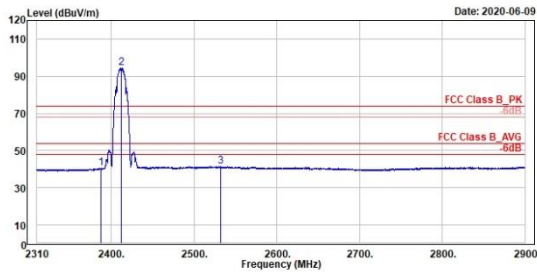


**802.11b**

**Low Channel (Horizontal) Average**



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No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)  
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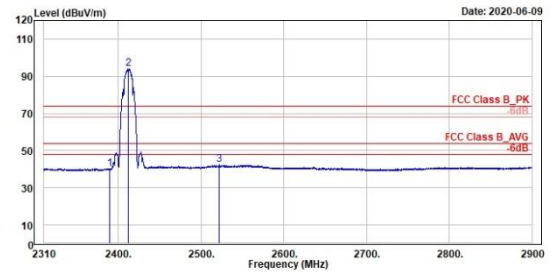


|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos    | Remark     | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|---------|------------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |         |            |           |      |
| 1   | 2387.08 | 40.58  | 3.17  | 37.33 | 54.00  | -13.50 | 213  | 199  | Average | Horizontal |           |      |
| 2 * | 2412.00 | 94.62  | 57.22 | 37.40 | 54.00  | 40.62  | 213  | 199  | Average | Horizontal |           |      |
| 3   | 2532.31 | 41.48  | 3.73  | 37.75 | 54.00  | -12.52 | 213  | 199  | Average | Horizontal |           |      |

**Low Channel (Vertical) Average**



TÜV Rheinland Taiwan Ltd.  
No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)  
Tel: +886-2172-1000 Fax: +886-2172-1322



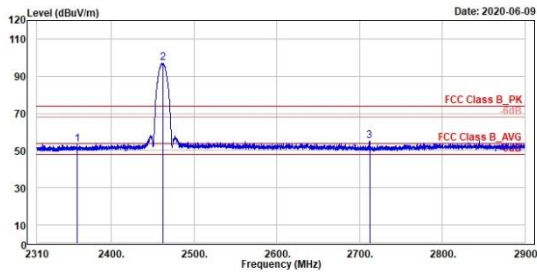
|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos    | Remark   | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|---------|----------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |         |          |           |      |
| 1   | 2389.77 | 40.24  | 2.91  | 37.33 | 54.00  | -13.76 | 306  | 224  | Average | Vertical |           |      |
| 2 * | 2412.00 | 93.92  | 56.52 | 37.40 | 54.00  | 39.92  | 306  | 224  | Average | Vertical |           |      |
| 3   | 2522.16 | 42.25  | 4.56  | 37.69 | 54.00  | -11.75 | 306  | 224  | Average | Vertical |           |      |

802.11b

High Channel (Horizontal) Peak



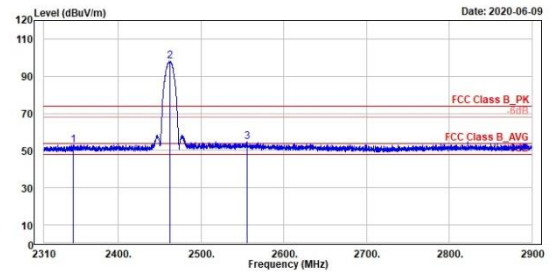
TÜV Rheinland Taiwan Ltd.  
No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)  
Tel: +886-2172-1000 Fax: +886-2172-1322



|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark     | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|------|------------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |      |            |           |      |
| 1   | 2359.09 | 53.55  | 16.31 | 37.24 | 74.00  | -20.45 | 209  | 200  | Peak | Horizontal |           |      |
| 2 * | 2462.00 | 96.99  | 59.45 | 37.54 | 74.00  | 22.99  | 209  | 200  | Peak | Horizontal |           |      |
| 3   | 2712.26 | 55.05  | 17.24 | 37.81 | 74.00  | -18.95 | 209  | 200  | Peak | Horizontal |           |      |



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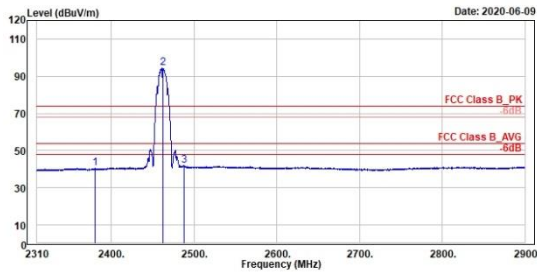
|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark   | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|------|----------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |      |          |           |      |
| 1   | 2345.07 | 53.14  | 15.95 | 37.19 | 74.00  | -20.86 | 304  | 228  | Peak | Vertical |           |      |
| 2 * | 2462.00 | 97.99  | 60.45 | 37.54 | 74.00  | 23.99  | 304  | 228  | Peak | Vertical |           |      |
| 3   | 2555.68 | 54.79  | 16.94 | 37.85 | 74.00  | -19.21 | 304  | 228  | Peak | Vertical |           |      |

**802.11b**

**High Channel (Horizontal) Average**



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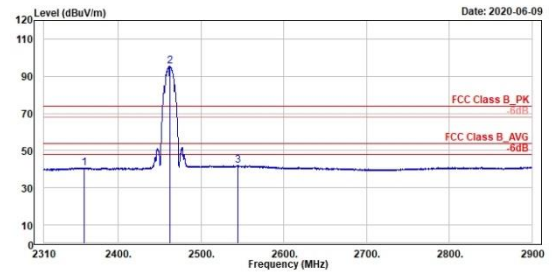


| Freq | Level   | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|---------|-------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |            |      |
| 1    | 2380.68 | 40.44 | 3.14  | 37.30  | 54.00 | -13.56 | 209  | 200  | Average | Horizontal |      |
| 2 *  | 2462.00 | 94.40 | 56.86 | 37.54  | 54.00 | 40.40  | 209  | 200  | Average | Horizontal |      |
| 3    | 2488.06 | 41.78 | 4.21  | 37.57  | 54.00 | -12.22 | 209  | 200  | Average | Horizontal |      |

**High Channel (Vertical) Average**

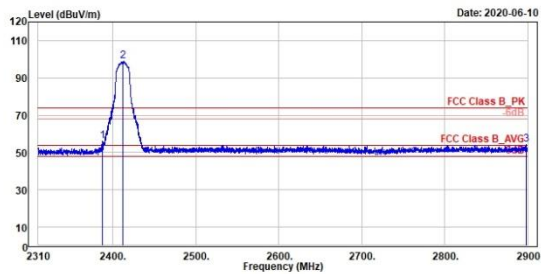


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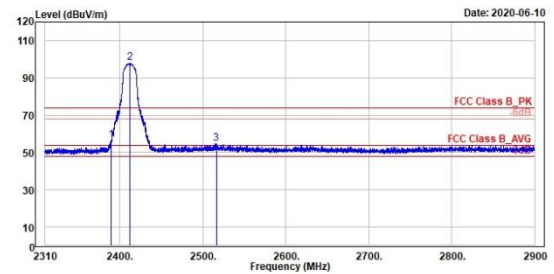


| Freq | Level   | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase | Note |
|------|---------|-------|-------|--------|-------|--------|------|------|---------|-----------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |           |      |
| 1    | 2358.85 | 40.83 | 3.59  | 37.24  | 54.00 | -13.17 | 304  | 228  | Average | Vertical  |      |
| 2 *  | 2462.00 | 95.38 | 57.84 | 37.54  | 54.00 | 41.38  | 304  | 228  | Average | Vertical  |      |
| 3    | 2544.11 | 41.98 | 4.17  | 37.81  | 54.00 | -12.02 | 304  | 228  | Average | Vertical  |      |

**802.11g**
**Low Channel (Horizontal) Peak**

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| Freq | Level   | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark | Pol/Phase  | Note |
|------|---------|-------|-------|--------|-------|--------|------|------|--------|------------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |        |            |      |
| 1    | 2387.17 | 56.26 | 18.94 | 37.32  | 74.00 | -17.74 | 289  | 196  | Peak   | Horizontal |      |
| 2 *  | 2412.00 | 98.57 | 61.47 | 37.40  | 74.00 | 24.87  | 289  | 196  | Peak   | Horizontal |      |
| 3    | 2898.47 | 54.12 | 15.81 | 38.31  | 74.00 | -19.88 | 289  | 196  | Peak   | Horizontal |      |


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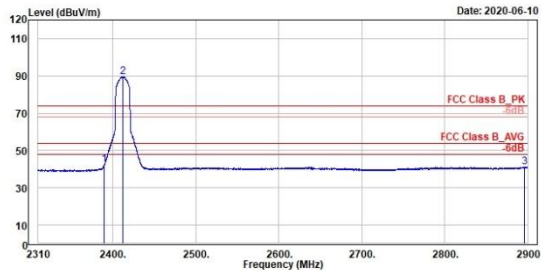
| Freq | Level   | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark | Pol/Phase | Note |
|------|---------|-------|-------|--------|-------|--------|------|------|--------|-----------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |        |           |      |
| 1    | 2389.53 | 56.80 | 19.47 | 37.33  | 74.00 | -17.20 | 310  | 237  | Peak   | Vertical  |      |
| 2 *  | 2412.00 | 98.04 | 60.64 | 37.40  | 74.00 | 24.04  | 310  | 237  | Peak   | Vertical  |      |
| 3    | 2516.26 | 54.76 | 17.09 | 37.67  | 74.00 | -19.24 | 310  | 237  | Peak   | Vertical  |      |

**802.11g**

**Low Channel (Horizontal) Average**



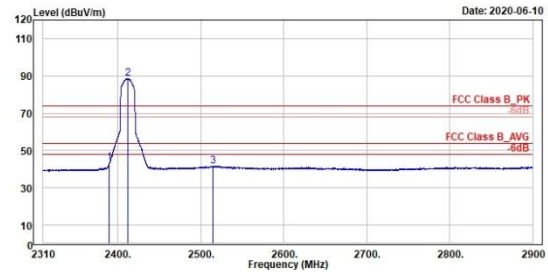
TÜV Rheinland Taiwan Ltd.  
No. 438-18, Sec. 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)  
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**Low Channel (Vertical) Average**



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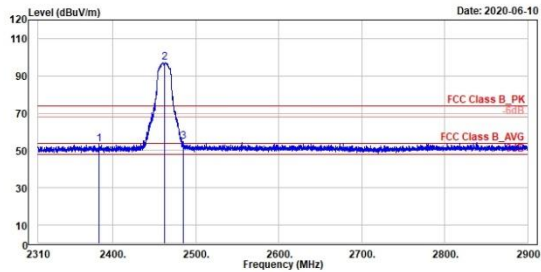


**802.11g**

**High Channel (Horizontal) Peak**



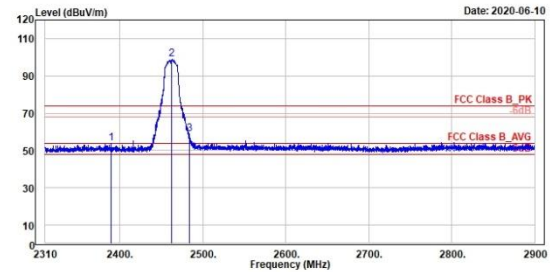
TÜV Rheinland Taiwan Ltd.  
No. 458-18, Sec. 2, Fenhua Rd., New Taipei City 244, Taiwan(R.O.C.)  
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| Freq | Level   | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark | Pol/Phase  | Note |
|------|---------|-------|-------|--------|-------|--------|------|------|--------|------------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |        |            |      |
| 1    | 2383.63 | 53.23 | 15.91 | 37.32  | 74.00 | -20.77 | 167  | 192  | Peak   | Horizontal |      |
| 2 *  | 2462.00 | 97.18 | 59.64 | 37.54  | 74.00 | 23.18  | 167  | 192  | Peak   | Horizontal |      |
| 3    | 2485.23 | 54.67 | 17.11 | 37.56  | 74.00 | -19.33 | 167  | 192  | Peak   | Horizontal |      |



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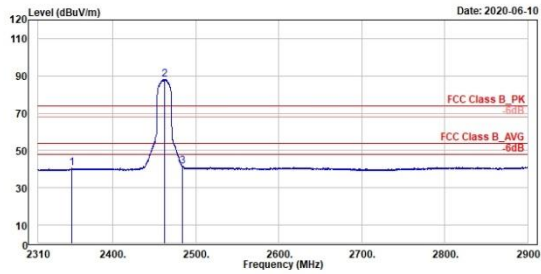
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|------|---------|-------|-------|--------|-------|--------|------|------|--------|-----------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |        |           |      |
| 1    | 2389.77 | 53.89 | 16.56 | 37.33  | 74.00 | -20.11 | 354  | 267  | Peak   | Vertical  |      |
| 2 *  | 2462.00 | 98.79 | 61.25 | 37.54  | 74.00 | 24.79  | 354  | 267  | Peak   | Vertical  |      |
| 3    | 2483.50 | 58.99 | 21.43 | 37.56  | 74.00 | -15.01 | 354  | 267  | Peak   | Vertical  |      |

**802.11g**

**High Channel (Horizontal) Average**



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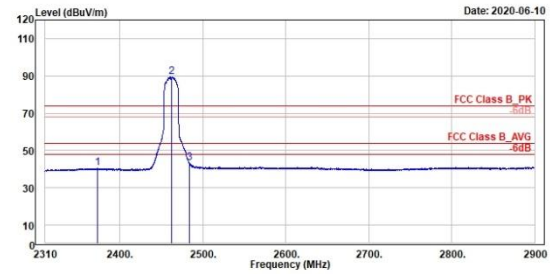


|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos    | Remark     | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|---------|------------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg     |            |           |      |
| 1   | 2358.24 | 48.45  | 3.24  | 37.21 | 54.00  | -13.55 | 167  | 192  | Average | Horizontal |           |      |
| 2 * | 2462.00 | 88.16  | 50.62 | 37.54 | 54.00  | 34.16  | 167  | 192  | Average | Horizontal |           |      |
| 3   | 2483.70 | 41.63  | 4.07  | 37.56 | 54.00  | -12.37 | 167  | 192  | Average | Horizontal |           |      |

**High Channel (Vertical) Average**

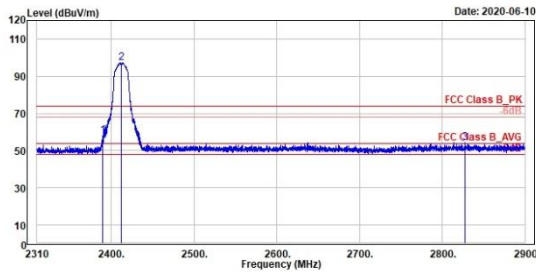


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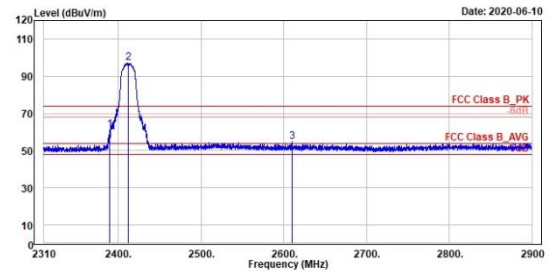


|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos    | Remark   | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|---------|----------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg     |          |           |      |
| 1   | 2372.89 | 48.48  | 3.12  | 37.28 | 54.00  | -13.60 | 354  | 267  | Average | Vertical |           |      |
| 2 * | 2462.00 | 89.41  | 51.87 | 37.54 | 54.00  | 35.41  | 354  | 267  | Average | Vertical |           |      |
| 3   | 2483.50 | 43.52  | 5.96  | 37.56 | 54.00  | -10.48 | 354  | 267  | Average | Vertical |           |      |

**802.11n HT20**
**Low Channel (Horizontal) Peak**

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|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark     | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|------|------------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |      |            |           |      |
| 1   | 2389.89 | 57.82  | 20.49 | 37.33 | 74.00  | -16.18 | 289  | 195  | Peak | Horizontal |           |      |
| 2 * | 2412.00 | 97.39  | 59.99 | 37.40 | 74.00  | 23.39  | 289  | 195  | Peak | Horizontal |           |      |
| 3   | 2827.55 | 54.29  | 16.29 | 38.00 | 74.00  | -19.71 | 289  | 195  | Peak | Horizontal |           |      |


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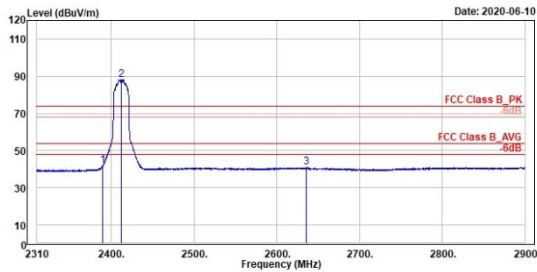
|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark   | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|------|----------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |      |          |           |      |
| 1   | 2389.65 | 61.19  | 23.86 | 37.33 | 74.00  | -12.81 | 306  | 235  | Peak | Vertical |           |      |
| 2 * | 2412.00 | 96.99  | 59.59 | 37.40 | 74.00  | 22.99  | 306  | 235  | Peak | Vertical |           |      |
| 3   | 2609.72 | 54.66  | 16.70 | 37.96 | 74.00  | -19.34 | 306  | 235  | Peak | Vertical |           |      |

**802.11n HT20**

**Low Channel (Horizontal) Average**



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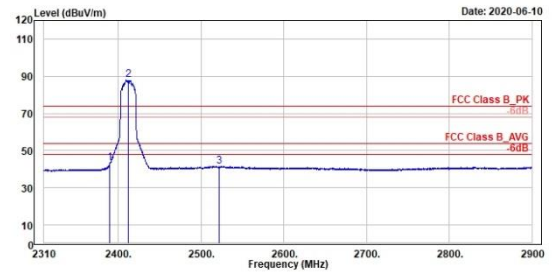


|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos    | Remark     | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|---------|------------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |         |            |           |      |
| 1   | 2389.77 | 42.10  | 4.77  | 37.33 | 54.00  | -11.90 | 289  | 195  | Average | Horizontal |           |      |
| 2 * | 2412.00 | 88.00  | 50.69 | 37.40 | 54.00  | 34.00  | 289  | 195  | Average | Horizontal |           |      |
| 3   | 2636.03 | 41.18  | 3.29  | 37.89 | 54.00  | -12.82 | 289  | 195  | Average | Horizontal |           |      |

**Low Channel (Vertical) Average**



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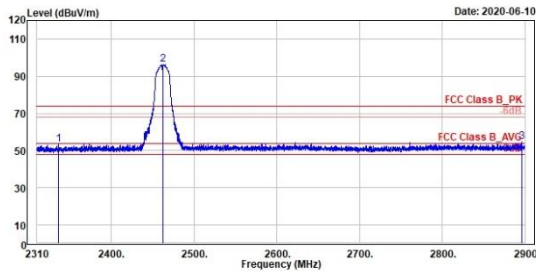
|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos    | Remark   | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|---------|----------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |         |          |           |      |
| 1   | 2390.00 | 43.19  | 5.06  | 37.33 | 54.00  | -10.81 | 306  | 235  | Average | Vertical |           |      |
| 2 * | 2412.00 | 87.83  | 50.43 | 37.40 | 54.00  | 33.83  | 306  | 235  | Average | Vertical |           |      |
| 3   | 2522.05 | 41.52  | 3.83  | 37.69 | 54.00  | -12.48 | 306  | 235  | Average | Vertical |           |      |

**802.11n HT20**

**High Channel (Horizontal) Peak**



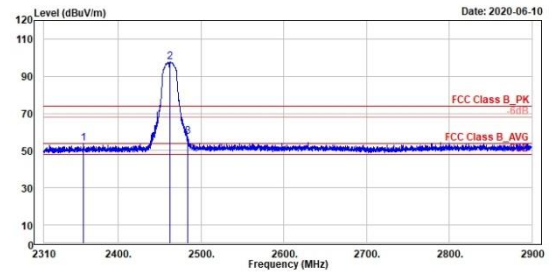
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| Freq | Level   | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark | Pol/Phase  | Note |
|------|---------|-------|-------|--------|-------|--------|------|------|--------|------------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | cm   | deg  |        |            |      |
| 1    | 2335.96 | 53.37 | 16.21 | 37.16  | 74.00 | -20.63 | 167  | 192  | Peak   | Horizontal |      |
| 2 *  | 2462.00 | 96.15 | 58.61 | 37.54  | 74.00 | 22.15  | 167  | 192  | Peak   | Horizontal |      |
| 3    | 2895.99 | 54.76 | 16.46 | 38.30  | 74.00 | -19.24 | 167  | 192  | Peak   | Horizontal |      |



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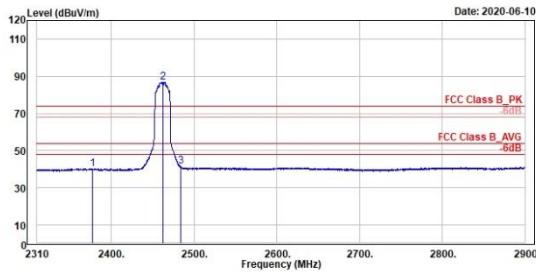
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|------|---------|-------|-------|--------|-------|--------|------|------|--------|-----------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | cm   | deg  |        |           |      |
| 1    | 2358.14 | 53.64 | 16.40 | 37.24  | 74.00 | -20.36 | 356  | 267  | Peak   | Vertical  |      |
| 2 *  | 2462.00 | 97.60 | 60.06 | 37.54  | 74.00 | 23.60  | 356  | 267  | Peak   | Vertical  |      |
| 3    | 2483.50 | 57.33 | 19.77 | 37.56  | 74.00 | -16.67 | 356  | 267  | Peak   | Vertical  |      |

**802.11n HT20**

**High Channel (Horizontal) Average**



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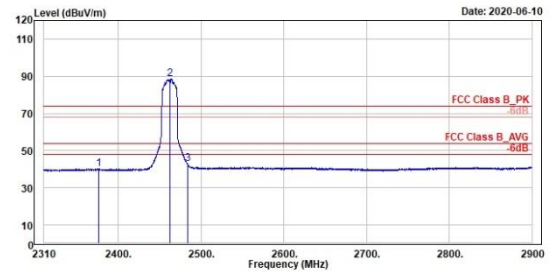


| Freq | Level   | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|---------|-------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |            |      |
| 1    | 2377.58 | 40.16 | 2.87  | 37.29  | 54.00 | -13.84 | 167  | 192  | Average | Horizontal |      |
| 2 *  | 2462.00 | 86.84 | 49.39 | 37.54  | 54.00 | 32.84  | 167  | 192  | Average | Horizontal |      |
| 3    | 2483.70 | 41.39 | 3.83  | 37.56  | 54.00 | -12.61 | 167  | 192  | Average | Horizontal |      |

**High Channel (Vertical) Average**



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| Freq | Level   | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase | Note |
|------|---------|-------|-------|--------|-------|--------|------|------|---------|-----------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |           |      |
| 1    | 2375.96 | 40.16 | 2.87  | 37.29  | 54.00 | -13.84 | 356  | 267  | Average | Vertical  |      |
| 2 *  | 2462.00 | 88.43 | 50.89 | 37.54  | 54.00 | 34.43  | 356  | 267  | Average | Vertical  |      |
| 3    | 2483.58 | 42.84 | 5.28  | 37.56  | 54.00 | -11.16 | 356  | 267  | Average | Vertical  |      |

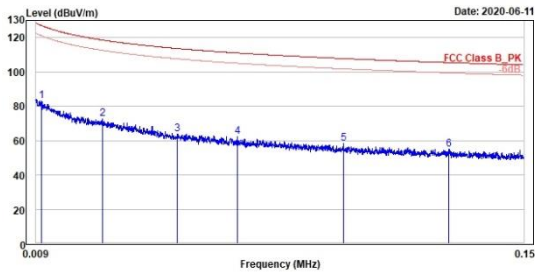
## Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

**802.11b**

### High Channel 9kHz~150kHz



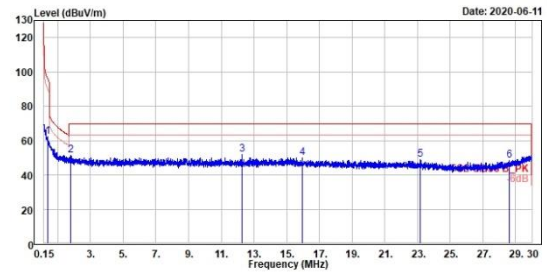
TUV Rheinland Taiwan Ltd.  
No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)  
Tel: +886-2172-1000 Fax: +886-2172-1322



|   | Freq | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark   | Pol/Phase | Note |
|---|------|--------|-------|-------|--------|--------|------|------|------|----------|-----------|------|
|   | MHz  | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |      |          |           |      |
| 1 | 0.01 | 83.22  | 4.81  | 78.41 | 127.02 | -43.80 | 100  | 229  | QP   | vertical |           |      |
| 2 | 0.03 | 72.73  | 1.68  | 71.05 | 116.55 | -45.82 | 100  | 22   | QP   | vertical |           |      |
| 3 | 0.05 | 63.82  | -1.25 | 65.07 | 113.63 | -49.81 | 100  | 122  | QP   | vertical |           |      |
| 4 | 0.07 | 62.46  | -0.25 | 62.71 | 111.04 | -48.58 | 100  | 84   | QP   | vertical |           |      |
| 5 | 0.10 | 58.10  | -1.40 | 59.50 | 107.78 | -49.68 | 100  | 180  | QP   | vertical |           |      |
| 6 | 0.13 | 54.94  | -2.66 | 57.60 | 105.43 | -50.49 | 100  | 273  | QP   | vertical |           |      |



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|   | Freq  | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark   | Pol/Phase | Note |
|---|-------|--------|-------|-------|--------|--------|------|------|------|----------|-----------|------|
|   | MHz   | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |      |          |           |      |
| 1 | 0.39  | 62.19  | 13.66 | 48.53 | 95.74  | -33.55 | 100  | 150  | QP   | vertical |           |      |
| 2 | 1.77  | 51.25  | 12.25 | 39.00 | 69.50  | -18.25 | 100  | 357  | QP   | vertical |           |      |
| 3 | 12.25 | 51.00  | 14.46 | 37.34 | 69.50  | -17.70 | 100  | 180  | QP   | vertical |           |      |
| 4 | 15.96 | 50.00  | 12.46 | 37.54 | 69.50  | -19.50 | 100  | 10   | QP   | vertical |           |      |
| 5 | 23.20 | 49.09  | 13.65 | 35.44 | 69.50  | -20.41 | 100  | 229  | QP   | vertical |           |      |
| 6 | 28.63 | 48.56  | 12.12 | 36.44 | 69.50  | -20.94 | 100  | 360  | QP   | vertical |           |      |

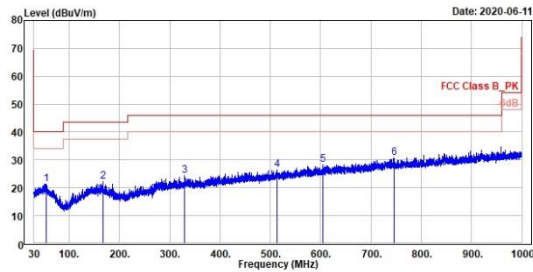
## Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

**802.11b**

### High Channel (Horizontal)



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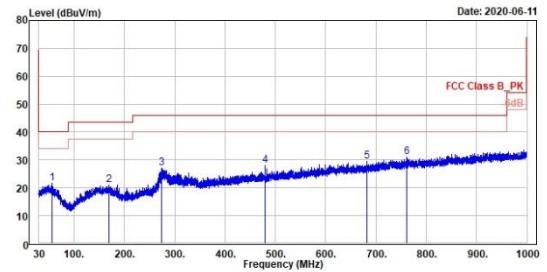


|   | Freq   | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark     | Pol/Phase | Note |
|---|--------|--------|-------|-------|--------|--------|------|------|------|------------|-----------|------|
|   | MHz    | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |      |            |           |      |
| 1 | 54.74  | 21.34  | 28.98 | -7.64 | 48.00  | -18.66 | 300  | 286  | QP   | horizontal |           |      |
| 2 | 166.96 | 22.08  | 29.39 | -7.22 | 43.50  | -21.42 | 300  | 311  | QP   | horizontal |           |      |
| 3 | 338.12 | 24.29  | 30.11 | -5.82 | 46.00  | -21.71 | 300  | 360  | QP   | horizontal |           |      |
| 4 | 512.67 | 26.59  | 29.51 | -2.92 | 46.00  | -19.41 | 100  | 44   | QP   | horizontal |           |      |
| 5 | 684.82 | 28.48  | 29.56 | -1.16 | 46.00  | -17.60 | 200  | 312  | QP   | horizontal |           |      |
| 6 | 746.05 | 30.77  | 29.73 | 1.04  | 46.00  | -15.23 | 100  | 3    | QP   | horizontal |           |      |

### High Channel (Vertical)



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|   | Freq   | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark   | Pol/Phase | Note |
|---|--------|--------|-------|-------|--------|--------|------|------|------|----------|-----------|------|
|   | MHz    | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |      |          |           |      |
| 1 | 55.00  | 21.64  | 29.37 | -7.73 | 48.00  | -18.36 | 242  | 0    | QP   | vertical |           |      |
| 2 | 169.78 | 21.07  | 28.34 | -7.27 | 43.50  | -22.43 | 100  | 171  | QP   | vertical |           |      |
| 3 | 274.54 | 27.08  | 34.28 | -7.20 | 46.00  | -18.92 | 200  | 71   | QP   | vertical |           |      |
| 4 | 479.98 | 27.99  | 31.58 | -3.59 | 46.00  | -18.01 | 100  | 46   | QP   | vertical |           |      |
| 5 | 682.33 | 29.53  | 29.68 | -0.15 | 46.00  | -16.47 | 400  | 243  | QP   | vertical |           |      |
| 6 | 762.06 | 30.96  | 29.63 | 1.33  | 46.00  | -15.04 | 300  | 141  | QP   | vertical |           |      |

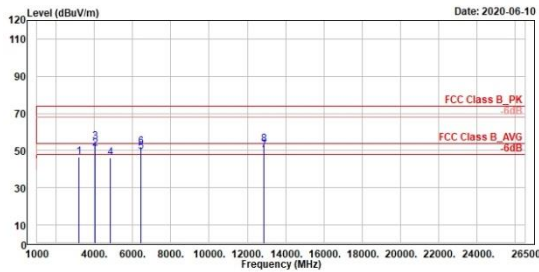
## Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

802.11b

### Low Channel (Horizontal)



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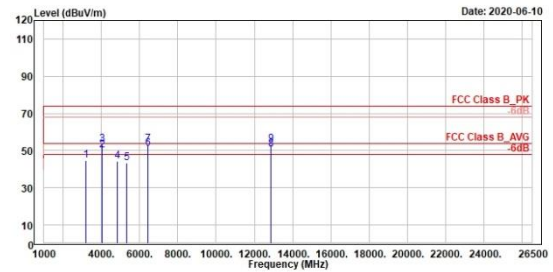


|   | Freq     | Level  | Read  | Level  | Factor | Limit  | Over | APos | TPos    | Remark     | Pol/Phase | Note |
|---|----------|--------|-------|--------|--------|--------|------|------|---------|------------|-----------|------|
|   | MHz      | dBuV/m | dBuV  | dB/m   | dBuV/m | dB     | cm   | deg  |         |            |           |      |
| 1 | 3216.00  | 46.78  | 59.14 | -12.44 | 74.00  | -27.30 | 280  | 300  | Peak    | horizontal |           |      |
| 2 | 4019.00  | 51.00  | 62.64 | -11.56 | 54.00  | -2.92  | 154  | 237  | Average | horizontal |           |      |
| 3 | 4019.00  | 54.61  | 66.17 | -11.56 | 74.00  | -19.39 | 154  | 237  | Peak    | horizontal |           |      |
| 4 | 4824.00  | 45.86  | 56.00 | -10.14 | 74.00  | -28.14 | 200  | 218  | Peak    | horizontal |           |      |
| 5 | 6432.00  | 49.38  | 57.45 | -8.07  | 54.00  | -4.62  | 272  | 253  | Average | horizontal |           |      |
| 6 | 6432.00  | 52.83  | 60.10 | -8.07  | 74.00  | -21.97 | 272  | 253  | Peak    | horizontal |           |      |
| 7 | 12864.00 | 50.15  | 49.82 | 0.33   | 54.00  | -3.85  | 200  | 284  | Average | horizontal |           |      |
| 8 | 12864.00 | 53.22  | 52.89 | 0.33   | 74.00  | -20.78 | 200  | 284  | Peak    | horizontal |           |      |

### Low Channel (Vertical)



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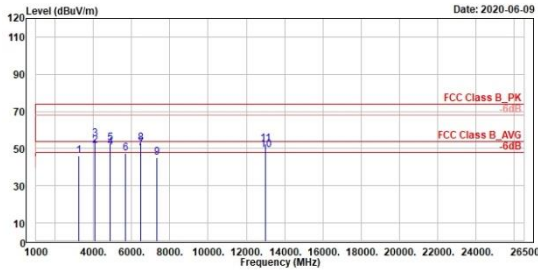
|   | Freq     | Level  | Read  | Level  | Factor | Limit  | Over | APos | TPos    | Remark   | Pol/Phase | Note |
|---|----------|--------|-------|--------|--------|--------|------|------|---------|----------|-----------|------|
|   | MHz      | dBuV/m | dBuV  | dB/m   | dBuV/m | dB     | cm   | deg  |         |          |           |      |
| 1 | 3216.00  | 44.74  | 57.18 | -12.44 | 74.00  | -29.26 | 280  | 279  | Peak    | vertical |           |      |
| 2 | 4019.00  | 50.24  | 61.80 | -11.56 | 54.00  | -3.76  | 222  | 294  | Average | vertical |           |      |
| 3 | 4019.00  | 53.60  | 65.16 | -11.56 | 74.00  | -20.40 | 222  | 294  | Peak    | vertical |           |      |
| 4 | 4824.00  | 44.05  | 54.19 | -10.14 | 74.00  | -29.95 | 180  | 266  | Peak    | vertical |           |      |
| 5 | 5322.00  | 43.48  | 52.34 | -8.86  | 74.00  | -30.52 | 124  | 360  | Peak    | vertical |           |      |
| 6 | 6432.00  | 51.09  | 59.16 | -8.07  | 54.00  | -2.91  | 117  | 298  | Average | vertical |           |      |
| 7 | 6432.00  | 53.37  | 61.44 | -8.07  | 74.00  | -20.63 | 117  | 298  | Peak    | vertical |           |      |
| 8 | 12864.00 | 50.53  | 50.20 | 0.33   | 54.00  | -3.47  | 301  | 303  | Average | vertical |           |      |
| 9 | 12864.00 | 53.28  | 52.95 | 0.33   | 74.00  | -20.72 | 301  | 303  | Peak    | vertical |           |      |

802.11b

Middle Channel (Horizontal)



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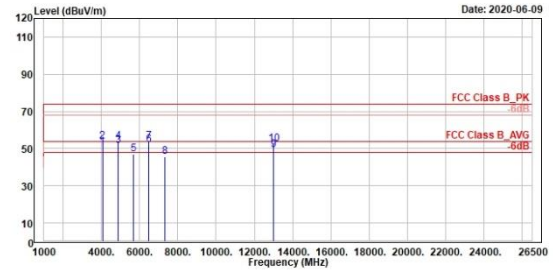


| Freq | Level    | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|----------|-------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m   | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |            |      |
| 1    | 3249.00  | 45.96 | 58.42 | -12.46 | 74.00 | -28.04 | 232  | 111  | Peak    | horizontal |      |
| 2    | 4063.00  | 51.50 | 63.05 | -11.55 | 74.00 | -2.50  | 140  | 238  | Average | horizontal |      |
| 3    | 4063.00  | 55.00 | 66.55 | -11.55 | 74.00 | -19.00 | 140  | 238  | Peak    | horizontal |      |
| 4    | 4874.00  | 50.64 | 60.69 | -10.05 | 74.00 | -3.36  | 278  | 202  | Average | horizontal |      |
| 5    | 4874.00  | 52.82 | 62.87 | -10.05 | 74.00 | -21.18 | 278  | 202  | Peak    | horizontal |      |
| 6    | 5687.00  | 47.57 | 56.46 | -8.89  | 74.00 | -26.43 | 400  | 208  | Peak    | horizontal |      |
| 7    | 6499.00  | 50.42 | 58.73 | -8.31  | 74.00 | -3.58  | 216  | 262  | Average | horizontal |      |
| 8    | 6499.00  | 52.85 | 61.16 | -8.31  | 74.00 | -21.15 | 216  | 262  | Peak    | horizontal |      |
| 9    | 7311.00  | 45.19 | 52.95 | -7.76  | 74.00 | -28.81 | 200  | 224  | Peak    | horizontal |      |
| 10   | 12998.00 | 49.18 | 48.88 | 0.30   | 74.00 | -4.82  | 200  | 281  | Average | horizontal |      |
| 11   | 12998.00 | 52.50 | 52.20 | 0.30   | 74.00 | -21.50 | 200  | 281  | Peak    | horizontal |      |

Middle Channel (Vertical)



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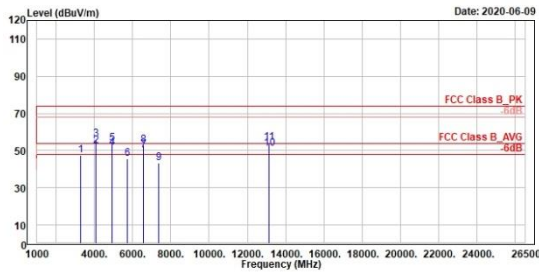
| Freq | Level    | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase | Note |
|------|----------|-------|-------|--------|-------|--------|------|------|---------|-----------|------|
| MHz  | dBuV/m   | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |           |      |
| 1    | 4061.00  | 50.64 | 62.19 | -11.55 | 74.00 | -3.36  | 118  | 273  | Average | vertical  |      |
| 2    | 4061.00  | 53.96 | 65.51 | -11.55 | 74.00 | -20.04 | 118  | 273  | Peak    | vertical  |      |
| 3    | 4874.00  | 51.43 | 61.48 | -10.05 | 74.00 | -2.57  | 178  | 267  | Average | vertical  |      |
| 4    | 4874.00  | 53.70 | 63.75 | -10.05 | 74.00 | -20.30 | 178  | 267  | Peak    | vertical  |      |
| 5    | 5687.00  | 46.98 | 55.87 | -8.89  | 74.00 | -27.02 | 200  | 255  | Peak    | vertical  |      |
| 6    | 6499.00  | 51.89 | 60.20 | -8.31  | 74.00 | -2.11  | 200  | 297  | Average | vertical  |      |
| 7    | 6499.00  | 53.71 | 62.02 | -8.31  | 74.00 | -20.29 | 200  | 297  | Peak    | vertical  |      |
| 8    | 7311.00  | 45.65 | 53.41 | -7.76  | 74.00 | -28.35 | 200  | 188  | Peak    | vertical  |      |
| 9    | 12998.00 | 49.30 | 49.00 | 0.30   | 74.00 | -4.70  | 300  | 304  | Average | vertical  |      |
| 10   | 12998.00 | 52.32 | 52.02 | 0.30   | 74.00 | -21.68 | 300  | 304  | Peak    | vertical  |      |

**802.11b**

**High Channel (Horizontal)**



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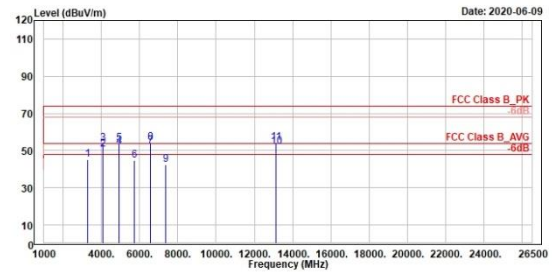


| Freq | Level    | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|----------|-------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m   | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |            |      |
| 1    | 3282.00  | 47.60 | 60.15 | -12.55 | 74.00 | -26.40 | 280  | 302  | Peak    | horizontal |      |
| 2    | 4104.00  | 52.59 | 63.96 | -11.37 | 54.00 | -1.41  | 148  | 246  | Average | horizontal |      |
| 3    | 4104.00  | 56.08 | 67.45 | -11.37 | 74.00 | -17.92 | 148  | 246  | Peak    | horizontal |      |
| 4    | 4924.00  | 51.36 | 61.24 | -9.88  | 54.00 | -2.64  | 267  | 191  | Average | horizontal |      |
| 5    | 4924.00  | 53.62 | 63.50 | -9.88  | 74.00 | -20.38 | 267  | 191  | Peak    | horizontal |      |
| 6    | 5744.00  | 45.48 | 54.36 | -8.88  | 74.00 | -28.52 | 400  | 218  | Peak    | horizontal |      |
| 7    | 6565.00  | 50.15 | 58.26 | -8.11  | 54.00 | -3.85  | 207  | 264  | Average | horizontal |      |
| 8    | 6565.00  | 52.75 | 60.86 | -8.11  | 74.00 | -21.25 | 207  | 264  | Peak    | horizontal |      |
| 9    | 7386.00  | 43.16 | 50.86 | -7.70  | 74.00 | -30.84 | 400  | 224  | Peak    | horizontal |      |
| 10   | 13130.00 | 51.07 | 50.86 | 0.21   | 54.00 | -2.93  | 201  | 277  | Average | horizontal |      |
| 11   | 13130.00 | 54.15 | 53.94 | 0.21   | 74.00 | -19.85 | 201  | 277  | Peak    | horizontal |      |

**High Channel (Vertical)**



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| Freq | Level    | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase | Note |
|------|----------|-------|-------|--------|-------|--------|------|------|---------|-----------|------|
| MHz  | dBuV/m   | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |           |      |
| 1    | 3283.00  | 45.18 | 57.72 | -12.54 | 74.00 | -28.82 | 132  | 115  | Peak    | vertical  |      |
| 2    | 4104.00  | 50.83 | 62.20 | -11.37 | 54.00 | -3.17  | 335  | 261  | Average | vertical  |      |
| 3    | 4104.00  | 54.03 | 65.40 | -11.37 | 74.00 | -19.97 | 335  | 261  | Peak    | vertical  |      |
| 4    | 4924.00  | 52.00 | 61.88 | -9.88  | 54.00 | -2.00  | 157  | 266  | Average | vertical  |      |
| 5    | 4924.00  | 53.86 | 63.74 | -9.88  | 74.00 | -20.14 | 157  | 266  | Peak    | vertical  |      |
| 6    | 5744.00  | 44.53 | 53.41 | -8.88  | 74.00 | -29.47 | 300  | 292  | Peak    | vertical  |      |
| 7    | 6565.00  | 52.56 | 60.67 | -8.11  | 54.00 | -1.44  | 183  | 298  | Average | vertical  |      |
| 8    | 6565.00  | 54.32 | 62.43 | -8.11  | 74.00 | -19.68 | 183  | 298  | Peak    | vertical  |      |
| 9    | 7386.00  | 42.40 | 50.10 | -7.70  | 74.00 | -31.60 | 100  | 280  | Peak    | vertical  |      |
| 10   | 13130.00 | 51.98 | 51.77 | 0.21   | 54.00 | -2.02  | 198  | 287  | Average | vertical  |      |
| 11   | 13130.00 | 54.51 | 54.30 | 0.21   | 74.00 | -19.49 | 198  | 287  | Peak    | vertical  |      |

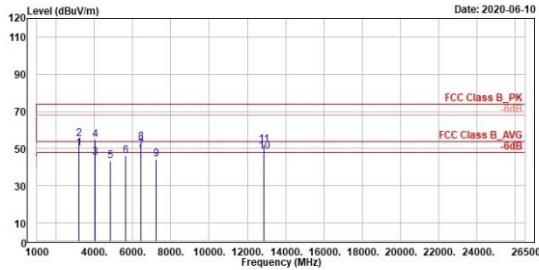
**802.11g**

**Low Channel (Horizontal)**

**Low Channel (Vertical)**



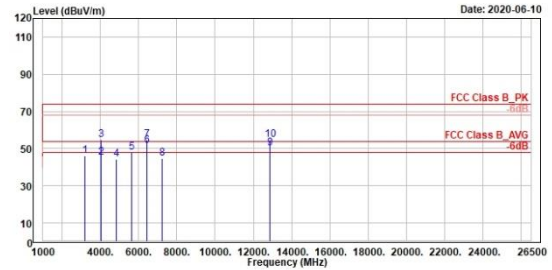
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| Freq | Level    | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|----------|-------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m   | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |            |      |
| 1    | 3216.00  | 50.34 | 62.78 | -12.44 | 54.00 | -3.66  | 115  | 262  | Average | horizontal |      |
| 2    | 3216.00  | 55.02 | 67.46 | -12.44 | 74.00 | -18.98 | 115  | 262  | Peak    | horizontal |      |
| 3    | 4019.00  | 44.98 | 56.54 | -11.56 | 54.00 | -9.02  | 201  | 221  | Average | horizontal |      |
| 4    | 4019.00  | 54.58 | 66.14 | -11.56 | 74.00 | -19.42 | 201  | 221  | Peak    | horizontal |      |
| 5    | 4824.00  | 43.47 | 53.61 | -10.14 | 74.00 | -30.53 | 200  | 223  | Peak    | horizontal |      |
| 6    | 5628.00  | 46.13 | 55.21 | -9.08  | 74.00 | -27.87 | 300  | 231  | Peak    | horizontal |      |
| 7    | 6432.00  | 49.33 | 57.40 | -8.07  | 54.00 | -4.67  | 273  | 253  | Average | horizontal |      |
| 8    | 6432.00  | 53.24 | 61.31 | -8.07  | 74.00 | -20.76 | 273  | 253  | Peak    | horizontal |      |
| 9    | 7236.00  | 44.33 | 52.11 | -7.78  | 74.00 | -29.67 | 302  | 255  | Peak    | horizontal |      |
| 10   | 12864.00 | 48.39 | 48.06 | 0.33   | 54.00 | -5.61  | 396  | 229  | Average | horizontal |      |
| 11   | 12864.00 | 52.24 | 51.91 | 0.33   | 74.00 | -21.76 | 396  | 229  | Peak    | horizontal |      |



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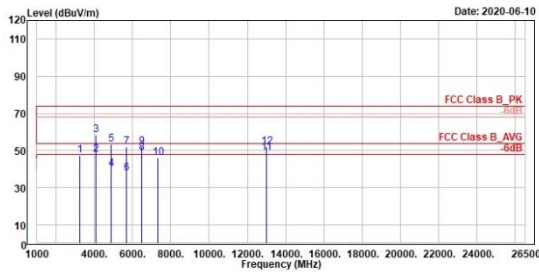
| Freq | Level    | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase | Note |
|------|----------|-------|-------|--------|-------|--------|------|------|---------|-----------|------|
| MHz  | dBuV/m   | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |           |      |
| 1    | 3216.00  | 46.30 | 58.74 | -12.44 | 74.00 | -27.70 | 200  | 290  | Peak    | vertical  |      |
| 2    | 4021.00  | 45.22 | 56.78 | -11.56 | 54.00 | -8.78  | 234  | 295  | Average | vertical  |      |
| 3    | 4021.00  | 54.95 | 66.51 | -11.56 | 74.00 | -19.05 | 234  | 295  | Peak    | vertical  |      |
| 4    | 4824.00  | 44.28 | 54.42 | -10.14 | 74.00 | -29.72 | 200  | 276  | Peak    | vertical  |      |
| 5    | 5628.00  | 47.83 | 56.91 | -9.08  | 74.00 | -26.17 | 400  | 331  | Peak    | vertical  |      |
| 6    | 6432.00  | 51.44 | 59.51 | -8.07  | 54.00 | -2.56  | 126  | 297  | Average | vertical  |      |
| 7    | 6432.00  | 54.57 | 62.64 | -8.07  | 74.00 | -19.43 | 126  | 297  | Peak    | vertical  |      |
| 8    | 7236.00  | 44.91 | 52.69 | -7.78  | 74.00 | -29.09 | 100  | 294  | Peak    | vertical  |      |
| 9    | 12864.00 | 50.35 | 50.02 | 0.33   | 54.00 | -3.65  | 303  | 297  | Average | vertical  |      |
| 10   | 12864.00 | 54.69 | 54.36 | 0.33   | 74.00 | -19.31 | 303  | 297  | Peak    | vertical  |      |

**802.11g**

**Middle Channel (Horizontal)**



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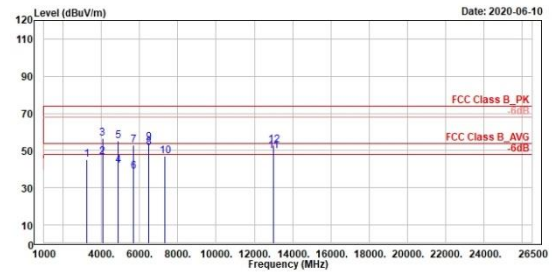


| Freq | Level    | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|----------|-------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m   | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |            |      |
| 1    | 3249.00  | 47.60 | 60.06 | -12.46 | 74.00 | -26.40 | 200  | 320  | Peak    | horizontal |      |
| 2    | 4064.00  | 47.84 | 59.37 | -11.53 | 54.00 | -6.16  | 186  | 228  | Average | horizontal |      |
| 3    | 4064.00  | 58.44 | 69.97 | -11.53 | 74.00 | -15.56 | 186  | 228  | Peak    | horizontal |      |
| 4    | 4874.00  | 40.21 | 50.26 | -10.05 | 54.00 | -13.79 | 243  | 211  | Average | horizontal |      |
| 5    | 4874.00  | 53.16 | 63.21 | -10.05 | 74.00 | -20.84 | 243  | 211  | Peak    | horizontal |      |
| 6    | 5687.00  | 37.89 | 46.70 | -8.89  | 54.00 | -16.11 | 226  | 266  | Average | horizontal |      |
| 7    | 5687.00  | 52.22 | 61.11 | -8.89  | 74.00 | -21.78 | 226  | 266  | Peak    | horizontal |      |
| 8    | 6499.00  | 48.85 | 57.16 | -8.31  | 54.00 | -5.15  | 300  | 229  | Average | horizontal |      |
| 9    | 6499.00  | 52.19 | 60.50 | -8.31  | 74.00 | -21.81 | 300  | 229  | Peak    | horizontal |      |
| 10   | 7308.00  | 45.88 | 53.64 | -7.76  | 74.00 | -28.12 | 211  | 281  | Peak    | horizontal |      |
| 11   | 12998.00 | 48.75 | 48.45 | 0.30   | 54.00 | -5.25  | 291  | 209  | Average | horizontal |      |
| 12   | 12998.00 | 51.96 | 51.66 | 0.30   | 74.00 | -22.04 | 291  | 209  | Peak    | horizontal |      |

**Middle Channel (Vertical)**



TÜV Rheinland Taiwan Ltd.  
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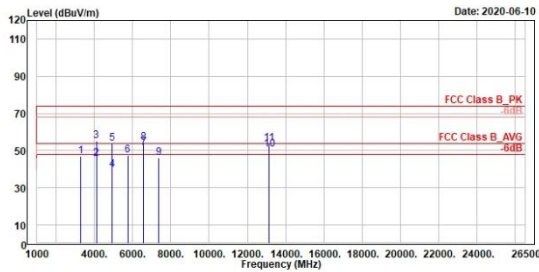
| Freq | Level    | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase | Note |
|------|----------|-------|-------|--------|-------|--------|------|------|---------|-----------|------|
| MHz  | dBuV/m   | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |           |      |
| 1    | 3249.00  | 45.07 | 57.53 | -12.46 | 74.00 | -28.93 | 200  | 255  | Peak    | vertical  |      |
| 2    | 4060.00  | 46.60 | 58.15 | -11.55 | 54.00 | -7.40  | 217  | 290  | Average | vertical  |      |
| 3    | 4060.00  | 56.45 | 68.00 | -11.55 | 74.00 | -17.55 | 217  | 290  | Peak    | vertical  |      |
| 4    | 4874.00  | 42.15 | 52.20 | -10.05 | 54.00 | -11.85 | 184  | 268  | Average | vertical  |      |
| 5    | 4874.00  | 55.13 | 65.18 | -10.05 | 74.00 | -18.87 | 184  | 268  | Peak    | vertical  |      |
| 6    | 5680.00  | 38.70 | 47.66 | -8.96  | 54.00 | -15.30 | 282  | 332  | Average | vertical  |      |
| 7    | 5680.00  | 53.04 | 62.00 | -8.96  | 74.00 | -20.96 | 282  | 332  | Peak    | vertical  |      |
| 8    | 6499.00  | 51.79 | 60.10 | -8.31  | 54.00 | -2.21  | 201  | 299  | Average | vertical  |      |
| 9    | 6499.00  | 54.30 | 62.61 | -8.31  | 74.00 | -19.70 | 201  | 299  | Peak    | vertical  |      |
| 10   | 7313.00  | 46.85 | 54.62 | -7.77  | 74.00 | -27.15 | 215  | 203  | Peak    | vertical  |      |
| 11   | 12998.00 | 49.58 | 49.28 | 0.30   | 54.00 | -4.42  | 300  | 304  | Average | vertical  |      |
| 12   | 12998.00 | 52.79 | 52.49 | 0.30   | 74.00 | -21.21 | 300  | 304  | Peak    | vertical  |      |

**802.11g**

**High Channel (Horizontal)**



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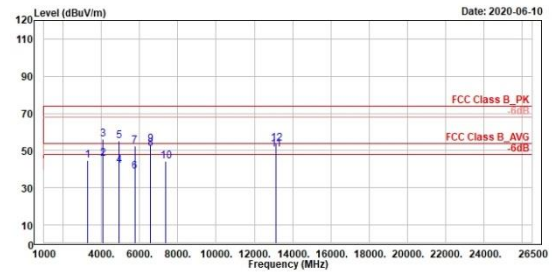


| Freq | Level    | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|----------|-------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m   | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |            |      |
| 1    | 3283.00  | 46.92 | 59.46 | -12.54 | 74.00 | -27.08 | 280  | 380  | Peak    | horizontal |      |
| 2    | 4186.00  | 45.72 | 57.09 | -11.37 | 54.00 | -8.28  | 181  | 229  | Average | horizontal |      |
| 3    | 4186.00  | 55.28 | 66.65 | -11.37 | 74.00 | -18.72 | 181  | 229  | Peak    | horizontal |      |
| 4    | 4924.00  | 39.70 | 49.58 | -9.88  | 54.00 | -14.30 | 289  | 199  | Average | horizontal |      |
| 5    | 4924.00  | 53.82 | 63.70 | -9.88  | 74.00 | -20.18 | 289  | 199  | Peak    | horizontal |      |
| 6    | 5746.00  | 47.50 | 56.37 | -8.87  | 74.00 | -26.50 | 480  | 216  | Peak    | horizontal |      |
| 7    | 6565.00  | 51.42 | 59.53 | -8.11  | 54.00 | -2.58  | 282  | 274  | Average | horizontal |      |
| 8    | 6565.00  | 54.15 | 62.26 | -8.11  | 74.00 | -19.85 | 282  | 274  | Peak    | horizontal |      |
| 9    | 7386.00  | 46.16 | 53.86 | -7.70  | 74.00 | -27.84 | 400  | 230  | Peak    | horizontal |      |
| 10   | 13131.00 | 50.69 | 50.48 | 0.21   | 54.00 | -3.31  | 289  | 276  | Average | horizontal |      |
| 11   | 13131.00 | 53.98 | 53.77 | 0.21   | 74.00 | -20.02 | 289  | 276  | Peak    | horizontal |      |

**High Channel (Vertical)**



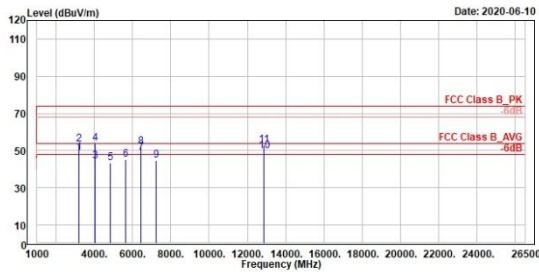
TÜV Rheinland Taiwan Ltd.  
No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)  
Tel: +886-2172-1000 Fax: +886-2172-1322



| Freq | Level    | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase | Note |
|------|----------|-------|-------|--------|-------|--------|------|------|---------|-----------|------|
| MHz  | dBuV/m   | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |           |      |
| 1    | 3282.00  | 44.83 | 57.38 | -12.55 | 74.00 | -29.17 | 280  | 238  | Peak    | vertical  |      |
| 2    | 4182.00  | 45.72 | 57.09 | -11.37 | 54.00 | -8.28  | 212  | 293  | Average | vertical  |      |
| 3    | 4182.00  | 56.08 | 67.45 | -11.37 | 74.00 | -17.92 | 212  | 293  | Peak    | vertical  |      |
| 4    | 4924.00  | 41.94 | 51.82 | -9.88  | 54.00 | -12.06 | 210  | 251  | Average | vertical  |      |
| 5    | 4924.00  | 55.14 | 65.02 | -9.88  | 74.00 | -18.86 | 210  | 251  | Peak    | vertical  |      |
| 6    | 5747.00  | 38.74 | 47.61 | -8.87  | 54.00 | -15.26 | 300  | 294  | Average | vertical  |      |
| 7    | 5747.00  | 52.42 | 61.29 | -8.87  | 74.00 | -21.58 | 300  | 294  | Peak    | vertical  |      |
| 8    | 6565.00  | 51.29 | 59.40 | -8.11  | 54.00 | -2.71  | 285  | 319  | Average | vertical  |      |
| 9    | 6565.00  | 53.48 | 61.59 | -8.11  | 74.00 | -20.52 | 285  | 319  | Peak    | vertical  |      |
| 10   | 7386.00  | 44.31 | 52.01 | -7.70  | 74.00 | -29.69 | 280  | 265  | Peak    | vertical  |      |
| 11   | 13131.00 | 50.85 | 50.64 | 0.21   | 54.00 | -3.15  | 289  | 296  | Average | vertical  |      |
| 12   | 13131.00 | 54.01 | 53.80 | 0.21   | 74.00 | -19.99 | 289  | 296  | Peak    | vertical  |      |

**802.11n HT20**
**Low Channel (Horizontal)**

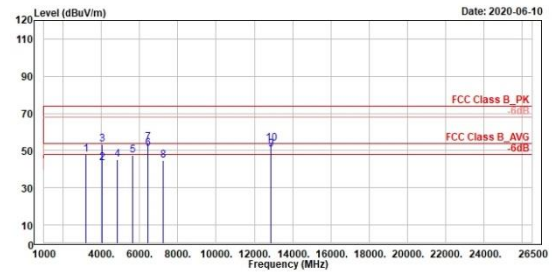

TÜV Rheinland Taiwan Ltd.  
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| Freq | Level    | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|----------|-------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m   | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |            |      |
| 1    | 3216.00  | 48.80 | 61.24 | -12.44 | 54.00 | -5.20  | 201  | 308  | Average | horizontal |      |
| 2    | 3216.00  | 53.37 | 65.81 | -12.44 | 74.00 | -20.63 | 201  | 308  | Peak    | horizontal |      |
| 3    | 4019.00  | 44.24 | 55.80 | -11.56 | 54.00 | -9.76  | 202  | 220  | Average | horizontal |      |
| 4    | 4019.00  | 53.92 | 65.48 | -11.56 | 74.00 | -20.00 | 202  | 220  | Peak    | horizontal |      |
| 5    | 4824.00  | 43.45 | 53.59 | -10.14 | 74.00 | -30.55 | 100  | 210  | Peak    | horizontal |      |
| 6    | 5626.00  | 45.39 | 54.46 | -9.07  | 74.00 | -28.61 | 300  | 220  | Peak    | horizontal |      |
| 7    | 6432.00  | 48.95 | 57.02 | -8.07  | 54.00 | -5.05  | 300  | 257  | Average | horizontal |      |
| 8    | 6432.00  | 52.14 | 60.21 | -8.07  | 74.00 | -21.86 | 300  | 257  | Peak    | horizontal |      |
| 9    | 7236.00  | 44.58 | 52.36 | -7.78  | 74.00 | -29.42 | 200  | 257  | Peak    | horizontal |      |
| 10   | 12865.00 | 49.67 | 49.35 | 0.32   | 54.00 | -4.33  | 206  | 282  | Average | horizontal |      |
| 11   | 12865.00 | 53.08 | 52.76 | 0.32   | 74.00 | -20.92 | 206  | 282  | Peak    | horizontal |      |

**Low Channel (Vertical)**


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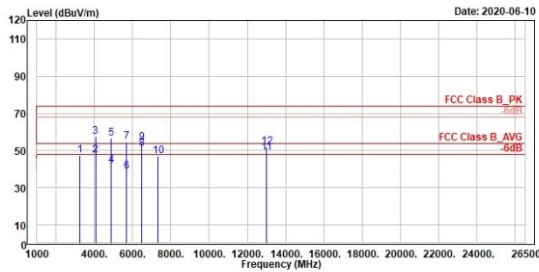
| Freq | Level    | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase | Note |
|------|----------|-------|-------|--------|-------|--------|------|------|---------|-----------|------|
| MHz  | dBuV/m   | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |           |      |
| 1    | 3216.00  | 47.77 | 60.21 | -12.44 | 74.00 | -26.23 | 200  | 262  | Peak    | vertical  |      |
| 2    | 4019.00  | 43.34 | 54.90 | -11.56 | 54.00 | -10.66 | 259  | 292  | Average | vertical  |      |
| 3    | 4019.00  | 53.35 | 64.91 | -11.56 | 74.00 | -20.65 | 259  | 292  | Peak    | vertical  |      |
| 4    | 4824.00  | 45.10 | 55.24 | -10.14 | 74.00 | -28.90 | 200  | 301  | Peak    | vertical  |      |
| 5    | 5626.00  | 47.40 | 56.48 | -9.08  | 74.00 | -26.60 | 400  | 311  | Peak    | vertical  |      |
| 6    | 6432.00  | 51.27 | 59.34 | -8.07  | 54.00 | -2.73  | 114  | 301  | Average | vertical  |      |
| 7    | 6432.00  | 54.33 | 62.40 | -8.07  | 74.00 | -19.67 | 114  | 301  | Peak    | vertical  |      |
| 8    | 7232.00  | 44.56 | 52.33 | -7.77  | 74.00 | -29.44 | 100  | 275  | Peak    | vertical  |      |
| 9    | 12864.00 | 50.69 | 50.36 | 0.33   | 54.00 | -3.31  | 320  | 303  | Average | vertical  |      |
| 10   | 12864.00 | 53.80 | 53.47 | 0.33   | 74.00 | -20.20 | 320  | 303  | Peak    | vertical  |      |

**802.11n HT20**

**Middle Channel (Horizontal)**



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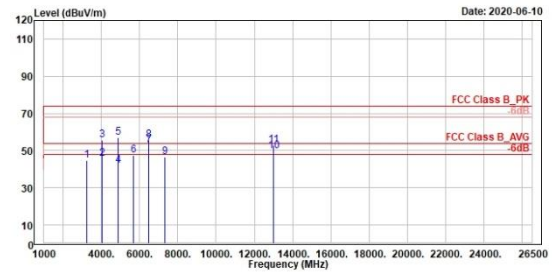


| Freq | Level    | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|----------|-------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m   | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |            |      |
| 1    | 3249.00  | 47.61 | 68.07 | -12.46 | 74.00 | -26.39 | 280  | 386  | Peak    | horizontal |      |
| 2    | 4061.00  | 47.60 | 59.15 | -11.55 | 54.00 | -6.40  | 194  | 221  | Average | horizontal |      |
| 3    | 4061.00  | 57.44 | 68.99 | -11.55 | 74.00 | -16.56 | 194  | 221  | Peak    | horizontal |      |
| 4    | 4874.00  | 41.88 | 51.93 | -10.05 | 54.00 | -12.12 | 280  | 283  | Average | horizontal |      |
| 5    | 4874.00  | 56.45 | 66.50 | -10.05 | 74.00 | -17.55 | 280  | 283  | Peak    | horizontal |      |
| 6    | 5685.00  | 38.68 | 47.59 | -8.91  | 54.00 | -15.32 | 368  | 256  | Average | horizontal |      |
| 7    | 5685.00  | 54.68 | 63.59 | -8.91  | 74.00 | -19.32 | 368  | 256  | Peak    | horizontal |      |
| 8    | 6499.00  | 50.97 | 59.28 | -8.31  | 54.00 | -3.03  | 272  | 245  | Average | horizontal |      |
| 9    | 6499.00  | 54.22 | 62.53 | -8.31  | 74.00 | -19.78 | 272  | 245  | Peak    | horizontal |      |
| 10   | 7311.00  | 46.93 | 54.69 | -7.76  | 74.00 | -27.07 | 280  | 232  | Peak    | horizontal |      |
| 11   | 12998.00 | 48.78 | 48.48 | 0.30   | 54.00 | -5.22  | 293  | 289  | Average | horizontal |      |
| 12   | 12998.00 | 51.95 | 51.65 | 0.30   | 74.00 | -22.05 | 293  | 289  | Peak    | horizontal |      |

**Middle Channel (Vertical)**



TÜV Rheinland Taiwan Ltd.  
No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)  
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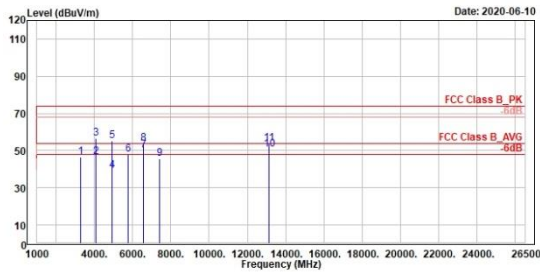
| Freq | Level    | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase | Note |
|------|----------|-------|-------|--------|-------|--------|------|------|---------|-----------|------|
| MHz  | dBuV/m   | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |           |      |
| 1    | 3249.00  | 44.56 | 57.02 | -12.46 | 74.00 | -29.44 | 280  | 272  | Peak    | vertical  |      |
| 2    | 4057.00  | 45.78 | 57.34 | -11.56 | 54.00 | -8.22  | 117  | 272  | Average | vertical  |      |
| 3    | 4057.00  | 55.78 | 67.34 | -11.56 | 74.00 | -18.22 | 117  | 272  | Peak    | vertical  |      |
| 4    | 4874.00  | 42.07 | 52.12 | -10.05 | 54.00 | -11.93 | 184  | 258  | Average | vertical  |      |
| 5    | 4874.00  | 56.97 | 67.02 | -10.05 | 74.00 | -17.03 | 184  | 258  | Peak    | vertical  |      |
| 6    | 5688.00  | 47.44 | 56.40 | -8.96  | 74.00 | -26.56 | 480  | 311  | Peak    | vertical  |      |
| 7    | 6499.00  | 52.88 | 61.19 | -8.31  | 54.00 | -1.12  | 128  | 292  | Average | vertical  |      |
| 8    | 6499.00  | 55.59 | 63.90 | -8.31  | 74.00 | -18.41 | 128  | 292  | Peak    | vertical  |      |
| 9    | 7311.00  | 46.62 | 54.38 | -7.76  | 74.00 | -27.38 | 283  | 301  | Peak    | vertical  |      |
| 10   | 12998.00 | 49.88 | 49.58 | 0.30   | 54.00 | -4.12  | 301  | 304  | Average | vertical  |      |
| 11   | 12998.00 | 52.79 | 52.49 | 0.30   | 74.00 | -21.21 | 301  | 304  | Peak    | vertical  |      |

**802.11n HT20**

**High Channel (Horizontal)**



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No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)  
Tel: +886-2172-1000 Fax: +886-2172-1322

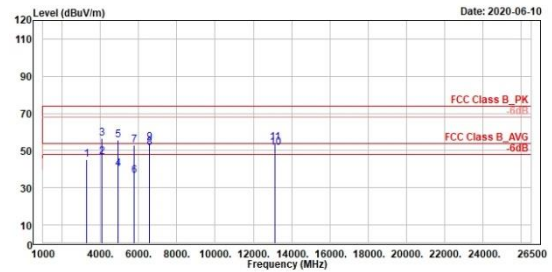


| Freq | Level    | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|----------|-------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m   | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |            |      |
| 1    | 3282.00  | 46.34 | 58.89 | -12.55 | 74.00 | -27.66 | 280  | 298  | Peak    | horizontal |      |
| 2    | 4100.00  | 46.53 | 57.98 | -11.37 | 54.00 | -7.47  | 384  | 222  | Average | horizontal |      |
| 3    | 4100.00  | 56.41 | 67.78 | -11.37 | 74.00 | -17.59 | 384  | 222  | Peak    | horizontal |      |
| 4    | 4924.00  | 39.36 | 49.24 | -9.88  | 54.00 | -14.64 | 276  | 211  | Average | horizontal |      |
| 5    | 4924.00  | 55.36 | 65.24 | -9.88  | 74.00 | -18.64 | 276  | 211  | Peak    | horizontal |      |
| 6    | 5756.00  | 47.99 | 56.05 | -8.06  | 74.00 | -26.01 | 480  | 218  | Peak    | horizontal |      |
| 7    | 6565.00  | 50.39 | 58.50 | -8.11  | 54.00 | -3.61  | 223  | 269  | Average | horizontal |      |
| 8    | 6565.00  | 53.85 | 61.96 | -8.11  | 74.00 | -20.15 | 223  | 269  | Peak    | horizontal |      |
| 9    | 7393.00  | 45.53 | 53.19 | -7.66  | 74.00 | -28.47 | 211  | 296  | Peak    | horizontal |      |
| 10   | 13131.00 | 50.83 | 58.62 | 0.21   | 54.00 | -3.17  | 200  | 277  | Average | horizontal |      |
| 11   | 13131.00 | 53.74 | 53.53 | 0.21   | 74.00 | -20.26 | 200  | 277  | Peak    | horizontal |      |

**High Channel (Vertical)**



TÜV Rheinland Taiwan Ltd.  
No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)  
Tel: +886-2172-1000 Fax: +886-2172-1322



| Freq | Level    | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase | Note |
|------|----------|-------|-------|--------|-------|--------|------|------|---------|-----------|------|
| MHz  | dBuV/m   | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |           |      |
| 1    | 3283.00  | 45.07 | 57.61 | -12.54 | 74.00 | -28.93 | 280  | 238  | Peak    | vertical  |      |
| 2    | 4104.00  | 46.75 | 58.12 | -11.37 | 54.00 | -7.25  | 335  | 259  | Average | vertical  |      |
| 3    | 4104.00  | 56.50 | 67.87 | -11.37 | 74.00 | -17.50 | 335  | 259  | Peak    | vertical  |      |
| 4    | 4924.00  | 40.27 | 50.15 | -9.88  | 54.00 | -13.73 | 176  | 255  | Average | vertical  |      |
| 5    | 4924.00  | 55.70 | 65.58 | -9.88  | 74.00 | -18.30 | 176  | 255  | Peak    | vertical  |      |
| 6    | 5748.00  | 36.50 | 45.38 | -8.88  | 54.00 | -17.50 | 300  | 286  | Average | vertical  |      |
| 7    | 5748.00  | 53.13 | 62.01 | -8.88  | 74.00 | -20.87 | 300  | 286  | Peak    | vertical  |      |
| 8    | 6565.00  | 51.57 | 59.68 | -8.11  | 54.00 | -2.43  | 196  | 326  | Average | vertical  |      |
| 9    | 6565.00  | 54.13 | 62.24 | -8.11  | 74.00 | -19.87 | 196  | 326  | Peak    | vertical  |      |
| 10   | 13131.00 | 51.64 | 51.43 | 0.21   | 54.00 | -2.36  | 200  | 294  | Average | vertical  |      |
| 11   | 13131.00 | 54.28 | 54.07 | 0.21   | 74.00 | -19.72 | 200  | 294  | Peak    | vertical  |      |