



Test Report

Date : 2025-07-25

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No. : HMD25040006

Applicant : AVALUE TECHNOLOGY INCORPORATION
7F, No. 228, Lian-cheng Road, Zhonghe Dist., New Taipei City 235,
Taiwan

Supplier / Manufacturer : Guangdong Founya Electronics Co.,Ltd
2F,Buliding 5,Mediea Rui Chuang Center,Shugang Rd.,Nanhai
District, Guangzhou 528299,China

Description of Sample(s) : Submitted sample(s) said to be
Product: Touch Kiosk
Brand Name: Avalue
Model No.: ISS-15K5
FCC ID: XBG-ISS-15K5

Date Samples Received : 2025-04-30

Date Tested : 2025-04-30 to 2025-06-24

Investigation Requested : Perform Electro Magnetic Interference measurement in accordance
with FCC 47CFR [Codes of Federal Regulations] Part 15 and ANSI
C63.10:2013 for FCC Certification.

Conclusions : The submitted product COMPLIED with the requirements of Federal
Communications Commission [FCC] Rules and Regulations Part 15.
The tests were performed in accordance with the standards described
above and on Section 2.2 in this Test Report.

Remarks : WIFI (802.11b/g/n20/n40)


Dr.CHAN Kwok Hung, Brian
Authorized Signatory

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1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd.
EMC Laboratory
10 Dai Wang Street, Taipo Industrial Estate, New Territories, Hong Kong
Telephone: 852 2666 1888
Fax: 852 2664 4353

1.2 Equipment Under Test [EUT]

Description of Sample(s)

Product: Touch Kiosk
Manufacturer: Guangdong Founya Electronics Co.,Ltd.
2F, Buliding 5, Midea Rui Chuang Center, Shugang Rd., Nanhai District, Guangzhou 528299, China.
Brand Name: Avalue
Model Number: ISS-15K5
Rating: 24.0Vd.c. by adapter
The AC/DC adapter was provided by the applicant with following details:
Brand name: GVE; Model no.: GM95-240400-F
Input: 100-240V~50/60Hz 2.5A, Output: 24.0V===4.0A 96.0W

1.2.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Touch Kiosk. The transmission signal is digital modulated with channel frequency range 2412-2462MHz.

1.3 Antenna Details

Antenna Type: Integrated antenna
Antenna Gain: 2.0dBi

1.4 Date of Order

2025-04-21

1.5 Submitted Sample(s):

1 Sample

1.6 Test Duration

2025-04-30 to 2025-06-24

1.7 Country of Origin

China

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2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 Regulations and ANSI C63.10:2013 for FCC Certification.
According FCC KDB 558074 DTS Measurement Guidance, Duty cycle $\geq 98\%$.
The test mode sample is provided by manufacturer.

2.1.0 Operating conditions for the EUT

The sample went into test mode handled by the manufacturer using the software.

```
C:\Windows\System32\cmd.e  x  +  v
Microsoft Windows [版本 10.0.22621.4317]
(c) Microsoft Corporation. 保留所有权利。

C:\Users\STC-EMD\Desktop\scrcpy-win64-v2.3.1\scrcpy-win64-v2.3.1>adb devices
adb.exe: unknown command devices

C:\Users\STC-EMD\Desktop\scrcpy-win64-v2.3.1\scrcpy-win64-v2.3.1>adb devices
* daemon not running; starting now at tcp:5037
* daemon started successfully
List of devices attached
16806c74bc88acd7    device

C:\Users\STC-EMD\Desktop\scrcpy-win64-v2.3.1\scrcpy-win64-v2.3.1>adb root
adb is already running as root

C:\Users\STC-EMD\Desktop\scrcpy-win64-v2.3.1\scrcpy-win64-v2.3.1>adb remount
Using overlayfs for /system
Using overlayfs for /vendor
Using overlayfs for /odm
Using overlayfs for /product
Using overlayfs for /system_ext
Now reboot your device for settings to take effect
remount succeeded

C:\Users\STC-EMD\Desktop\scrcpy-win64-v2.3.1\scrcpy-win64-v2.3.1>adb push C:\Users\STC-EMD\Desktop\funpad\smt\wifi_test
\data/
C:\Users\STC-EMD\Desktop\funpad\smt\wifi_test: 1 file pushed, 0 skipped. 36.5 MB/s (19768 bytes in 0.001s)

C:\Users\STC-EMD\Desktop\scrcpy-win64-v2.3.1\scrcpy-win64-v2.3.1>adb push C:\Users\STC-EMD\Desktop\funpad\smt\bt_test /d
```

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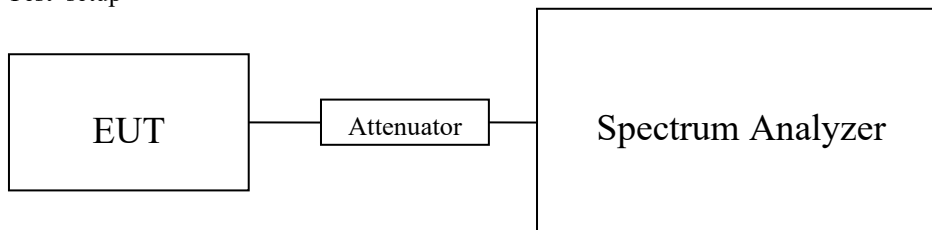
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2.1.1 EUT Duty cycle

The EUT shall be configured or modified to transmit continuously. The intent is to test at 100% duty cycle; however, a small reduction in duty cycle (to no lower than 98%) is permitted if required by the EUT for amplitude control purposes.

The test mode sample is provided by manufacturer.

Test setup

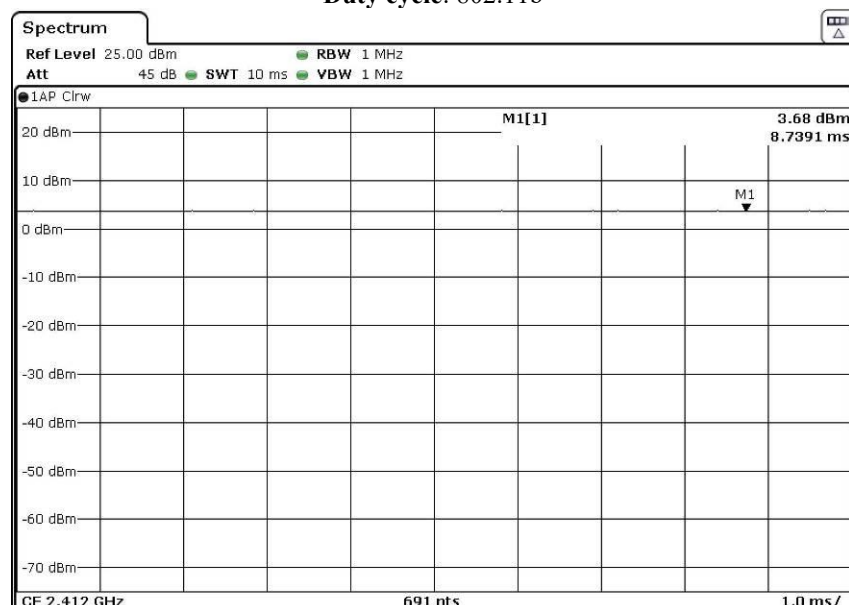


Results

| Mode | On Time (msec) | Period (msec) | Duty Cycle X (Linear) | Duty Cycle (%)* |
|-----------|----------------|---------------|-----------------------|-----------------|
| 802.11b | 1 | 1 | 1 | 100 |
| 802.11g | 1 | 1 | 1 | 100 |
| 802.11n20 | 1 | 1 | 1 | 100 |
| 802.11n40 | 1 | 1 | 1 | 100 |

-*: If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Duty cycle: 802.11b



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2.2 Test Standards and Results Summary Tables

| EMISSION Results Summary | | | | | | |
|--|---------------------------|------------------|---------------------|-------------------------------------|--------------------------|--------------------------|
| Test Condition | Test Requirement | Test Method | Class / Severity | Test Result | | |
| | | | | Pass | Failed | N/A |
| Output Power of Fundamental Emissions | FCC 47CFR 15.247(b)(3) | ANSI C63.10:2013 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Radiated Emissions | FCC 47CFR 15.209 | ANSI C63.10:2013 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Conducted Emissions | FCC 47CFR 15.207 | ANSI C63.10:2013 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Power Spectral Density | FCC 47CFR 15.247(e) | ANSI C63.10:2013 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6dB Bandwidth | FCC 47CFR 15.247(a)(2) | ANSI C63.10:2013 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Band Edge Emissions | FCC 47CFR 15.247(d) | ANSI C63.10:2013 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Antenna requirement | FCC 47CFR 15.203 | N/A | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Note: N/A - Not Applicable

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3.0 Test Results

3.1 Emission

3.1.1 Maximum Peak Output Power

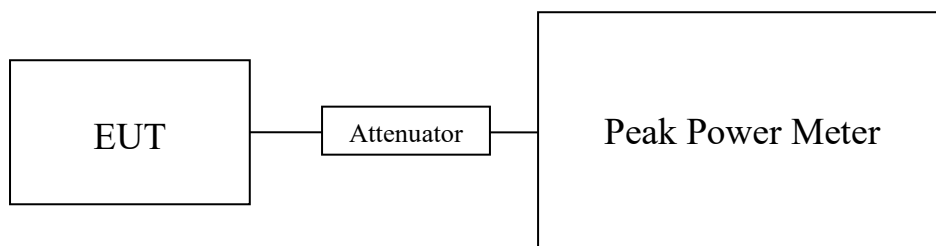
| | |
|--------------------|------------------------|
| Test Requirement: | FCC 47CFR 15.247(b)(3) |
| Test Method: | ANSI C63.10: 2013 |
| Test Date: | 2025-4-30 |
| Mode of Operation: | WIFI Tx mode |

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

Test Method:

The RF output of the EUT was connected to the peak power meter. All the attenuation or cable loss will be added to the measured maximum output power. The results are recorded in Watt.

Test Setup:



Note: a temporary antenna connector was soldered to the RF output.



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Limits for Peak Output Power of Fundamental & Harmonics Emissions [FCC 47CFR 15.247]:

For Digital Transmission systems in 2400-2483.5 MHz Band: 1 Watt (30dBm)

Results of WiFi mode 802.11 b, (2412MHz to 2462MHz) : Pass (TX Unit) Maximum conducted output power

| Channel | Frequency (MHz) | Output Power (Watt) |
|---------|-----------------|---------------------|
| Low | 2412 | 0.02832 |
| Middle | 2437 | 0.02747 |
| High | 2462 | 0.02651 |

Results of WiFi mode 802.11 g, (2412MHz to 2462MHz): Pass (TX Unit) Maximum conducted output power

| Channel | Frequency (MHz) | Output Power (Watt) |
|---------|-----------------|---------------------|
| Low | 2412 | 0.02689 |
| Middle | 2437 | 0.02678 |
| High | 2462 | 0.02569 |

Results of WiFi mode 802.11 n20, (2412MHz to 2462MHz): Pass (TX Unit) Maximum conducted output power

| Channel | Frequency (MHz) | Output Power (Watt) |
|---------|-----------------|---------------------|
| Low | 2412 | 0.02711 |
| Middle | 2437 | 0.02691 |
| High | 2462 | 0.02545 |

Results of WiFi mode 802.11 n40, (2422MHz to 2452MHz): Pass (TX Unit) Maximum conducted output power

| Channel | Frequency (MHz) | Output Power (Watt) |
|---------|-----------------|---------------------|
| Low | 2422 | 0.01932 |
| Middle | 2437 | 0.01865 |
| High | 2452 | 0.01751 |

Calculated measurement uncertainty : 30MHz to 1GHz 1.7dB
1GHz to 26GHz 1.7dB

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3.1.2 Radiated Emissions

| | |
|--------------------|------------------|
| Test Requirement: | FCC 47CFR 15.209 |
| Test Method: | ANSI C63.10:2013 |
| Test Date: | 2025-04-29 |
| Mode of Operation: | WIFI Tx mode |

Ambient Temperature: 24°C Relative Humidity: 52% Atmospheric Pressure: 101 kPa

Test Method:

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

* Semi-Anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

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Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av)

RBW: 10kHz
VBW: 30kHz
Sweep: Auto
Span: Fully capture the emissions being measured
Trace: Max. hold

30MHz – 1GHz (QP)

RBW: 120kHz
VBW: 120kHz
Sweep: Auto
Span: Fully capture the emissions being measured
Trace: Max. hold

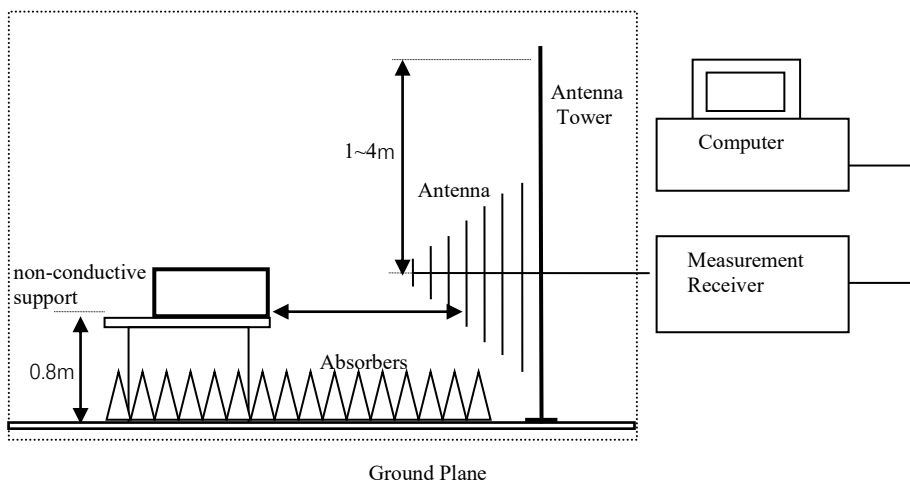
Above 1GHz (Pk)

RBW: 1MHz
VBW: 1MHz
Sweep: Auto
Span: Fully capture the emissions being measured
Trace: Max. hold

Above 1GHz (Av)

RBW: 1MHz
VBW: 1MHz
Sweep: Auto
Span: Fully capture the emissions being measured
Trace: Max. hold

Test Setup:



- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used.

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Limits for Radiated Emissions FCC 47 CFR 15.247]:

| Frequency Range | Quasi-Peak Limits |
|-----------------|---------------------|
| [MHz] | [$\mu\text{V/m}$] |
| 0.009-0.490 | 2400/F (kHz) |
| 0.490-1.705 | 24000/F (kHz) |
| 1.705-30 | 30 |
| 30-88 | 100 |
| 88-216 | 150 |
| 216-960 | 200 |
| Above 960 | 500 |

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Result of Tx mode (2412.0 MHz) (802.11b) (9kHz – 30MHz): Pass

| Field Strength of Spurious Emissions | | | | | | |
|---|------------------|-------------------|--------------------|-----------------|-----------------|------------------|
| Peak Value | | | | | | |
| Frequency | Measured Level | Correction Factor | Field Strength | Field Strength | Limit | E-Field Polarity |
| MHz | dB μV | dB/m | dB $\mu\text{V/m}$ | $\mu\text{V/m}$ | $\mu\text{V/m}$ | |
| Emissions detected are more than 20 dB below the FCC Limits | | | | | | |

Result of Tx mode (2412.0 MHz) (802.11b) (1GHz-25GHz): Pass

| Field Strength of Spurious Emissions | | | | | | |
|--------------------------------------|--------------------|-------------------|--------------------|--------------------|--------|------------------|
| Peak Value | | | | | | |
| Frequency | Measured Level @3m | Correction Factor | Field Strength | Limit @3m | Margin | E-Field Polarity |
| MHz | dB μV | dB/m | dB $\mu\text{V/m}$ | dB $\mu\text{V/m}$ | dB | |
| 4824.0 | 57.4 | 0.82 | 58.2 | 74.0 | 15.8 | Vertical |
| 4824.0 | 57.5 | 0.52 | 58.0 | 74.0 | 16.0 | Horizontal |
| 7236.0 | 50.0 | 7.00 | 57.0 | 74.0 | 17.0 | Vertical |
| 7236.0 | 50.2 | 6.50 | 56.7 | 74.0 | 17.3 | Horizontal |
| 9648.0 | 47.2 | 8.50 | 55.7 | 74.0 | 18.3 | Vertical |
| 9648.0 | 47.1 | 8.30 | 55.4 | 74.0 | 18.7 | Horizontal |
| 12060.0 | 45.3 | 10.90 | 56.2 | 74.0 | 17.8 | Vertical |
| 12060.0 | 45.3 | 10.80 | 56.1 | 74.0 | 17.9 | Horizontal |

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| Field Strength of Spurious Emissions Average Value | | | | | | |
|---|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 4824.0 | 41.5 | 0.82 | 42.3 | 54.0 | 11.7 | Vertical |
| 4824.0 | 42.0 | 0.52 | 42.5 | 54.0 | 11.5 | Horizontal |
| 7236.0 | 35.1 | 7.00 | 42.1 | 54.0 | 11.9 | Vertical |
| 7236.0 | 35.2 | 6.50 | 41.7 | 54.0 | 12.3 | Horizontal |
| 9648.0 | 32.0 | 8.50 | 40.5 | 54.0 | 13.5 | Vertical |
| 9648.0 | 31.8 | 8.30 | 40.1 | 54.0 | 13.9 | Horizontal |
| 12060.0 | 29.3 | 10.90 | 40.2 | 54.0 | 13.8 | Vertical |
| 12060.0 | 29.3 | 10.80 | 40.1 | 54.0 | 14.0 | Horizontal |

Result of Tx mode (2437.0 MHz) (802.11b) (9kHz – 30MHz): Pass

| Field Strength of Spurious Emissions Peak Value | | | | | | |
|---|---------------------------|------------------------------|-----------------------------|---------------------------|---------------|---------------------|
| Frequency MHz | Measured Level dBμV | Correction Factor dB/m | Field Strength dBμV/m | Field Strength μV/m | Limit μV/m | E-Field Polarity |
| Emissions detected are more than 20 dB below the FCC Limits | | | | | | |

Result of Tx mode (2437.0 MHz) (802.11b) (1GHz-25GHz): Pass

| Field Strength of Spurious Emissions Peak Value | | | | | | |
|--|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 4874.0 | 57.0 | 0.82 | 57.8 | 74.0 | 16.2 | Vertical |
| 4874.0 | 57.5 | 0.52 | 58.0 | 74.0 | 16.0 | Horizontal |
| 7311.0 | 50.2 | 7.00 | 57.2 | 74.0 | 16.8 | Vertical |
| 7311.0 | 51.4 | 6.50 | 57.9 | 74.0 | 16.1 | Horizontal |
| 9748.0 | 48.0 | 8.50 | 56.5 | 74.0 | 17.5 | Vertical |
| 9748.0 | 47.4 | 8.30 | 55.7 | 74.0 | 18.3 | Horizontal |
| 12185.0 | 45.1 | 10.90 | 56.0 | 74.0 | 18.0 | Vertical |
| 12185.0 | 45.4 | 10.80 | 56.2 | 74.0 | 17.8 | Horizontal |

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| Field Strength of Spurious Emissions | | | | | | |
|--------------------------------------|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Average Value | | | | | | |
| Frequency MHz | Measured Level @3m dBuV | Correction Factor dB/m | Field Strength dBuV/m | Limit @3m dBuV/m | Margin dB | E-Field Polarity |
| 4874.0 | 42.0 | 0.82 | 42.8 | 54.0 | 11.2 | Vertical |
| 4874.0 | 42.1 | 0.52 | 42.6 | 54.0 | 11.4 | Horizontal |
| 7311.0 | 35.0 | 7.00 | 42.0 | 54.0 | 12.0 | Vertical |
| 7311.0 | 34.9 | 6.50 | 41.4 | 54.0 | 12.6 | Horizontal |
| 9748.0 | 33.1 | 8.50 | 41.6 | 54.0 | 12.4 | Vertical |
| 9748.0 | 32.9 | 8.30 | 41.2 | 54.0 | 12.8 | Horizontal |
| 12185.0 | 30.3 | 10.90 | 41.2 | 54.0 | 12.8 | Vertical |
| 12185.0 | 30.3 | 10.80 | 41.1 | 54.0 | 13.0 | Horizontal |

Result of Tx mode (2462.0 MHz) (802.11b) (9kHz – 30MHz): Pass

| Field Strength of Spurious Emissions | | | | | | |
|---|---------------------------|------------------------------|-----------------------------|---------------------------|---------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level dBμV | Correction Factor dB/m | Field Strength dBμV/m | Field Strength μV/m | Limit μV/m | E-Field Polarity |
| Emissions detected are more than 20 dB below the FCC Limits | | | | | | |

Result of Tx mode (2462.0 MHz) (802.11b) (1GHz-25GHz): Pass

| Field Strength of Spurious Emissions | | | | | | |
|--------------------------------------|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 4924.0 | 57.0 | 0.82 | 57.8 | 74.0 | 16.2 | Vertical |
| 4924.0 | 57.1 | 0.52 | 57.6 | 74.0 | 16.4 | Horizontal |
| 7386.0 | 50.4 | 7.00 | 57.4 | 74.0 | 16.6 | Vertical |
| 7386.0 | 50.3 | 6.50 | 56.8 | 74.0 | 17.2 | Horizontal |
| 9848.0 | 47.8 | 8.50 | 56.3 | 74.0 | 17.7 | Vertical |
| 9848.0 | 47.7 | 8.30 | 56.0 | 74.0 | 18.0 | Horizontal |
| 12310.0 | 45.6 | 10.90 | 56.5 | 74.0 | 17.5 | Vertical |
| 12310.0 | 45.4 | 10.80 | 56.2 | 74.0 | 17.8 | Horizontal |

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| Field Strength of Spurious Emissions Average Value | | | | | | |
|---|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 4924.0 | 42.0 | 0.82 | 42.8 | 54.0 | 11.2 | Vertical |
| 4924.0 | 42.1 | 0.52 | 42.6 | 54.0 | 11.4 | Horizontal |
| 7386.0 | 35.2 | 7.00 | 42.2 | 54.0 | 11.8 | Vertical |
| 7386.0 | 35.6 | 6.50 | 42.1 | 54.0 | 11.9 | Horizontal |
| 9848.0 | 33.2 | 8.50 | 41.7 | 54.0 | 12.3 | Vertical |
| 9848.0 | 33.1 | 8.30 | 41.4 | 54.0 | 12.6 | Horizontal |
| 12310.0 | 29.3 | 10.90 | 40.2 | 54.0 | 13.8 | Vertical |
| 12310.0 | 30.4 | 10.80 | 41.2 | 54.0 | 12.8 | Horizontal |

Result of Tx mode (2412.0 MHz) (802.11g) (9kHz – 30MHz): Pass

| Field Strength of Spurious Emissions Peak Value | | | | | | |
|---|---------------------------|------------------------------|-----------------------------|---------------------------|---------------|---------------------|
| Frequency MHz | Measured Level dBμV | Correction Factor dB/m | Field Strength dBμV/m | Field Strength μV/m | Limit μV/m | E-Field Polarity |
| Emissions detected are more than 20 dB below the FCC Limits | | | | | | |

Result of Tx mode (2412.0 MHz) (802.11g) (1GHz-25GHz): Pass

| Field Strength of Spurious Emissions Peak Value | | | | | | |
|--|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 4824.0 | 56.8 | 0.82 | 57.6 | 74.0 | 16.4 | Vertical |
| 4824.0 | 57.4 | 0.52 | 57.9 | 74.0 | 16.1 | Horizontal |
| 7236.0 | 50.0 | 7.00 | 57.0 | 74.0 | 17.0 | Vertical |
| 7236.0 | 50.8 | 6.50 | 57.3 | 74.0 | 16.8 | Horizontal |
| 9648.0 | 47.3 | 8.50 | 55.8 | 74.0 | 18.2 | Vertical |
| 9648.0 | 47.7 | 8.30 | 56.0 | 74.0 | 18.0 | Horizontal |
| 12060.0 | 45.3 | 10.90 | 56.2 | 74.0 | 17.8 | Vertical |
| 12060.0 | 45.0 | 10.80 | 55.8 | 74.0 | 18.2 | Horizontal |

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| Field Strength of Spurious Emissions Average Value | | | | | | |
|---|-------------------------------------|------------------------------|-----------------------------------|------------------------------|--------------|---------------------|
| Frequency MHz | Measured Level @3m dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Margin dB | E-Field Polarity |
| 4824.0 | 41.6 | 0.82 | 42.4 | 54.0 | 11.6 | Vertical |
| 4824.0 | 41.0 | 0.52 | 41.5 | 54.0 | 12.5 | Horizontal |
| 7236.0 | 34.3 | 7.00 | 41.3 | 54.0 | 12.7 | Vertical |
| 7236.0 | 35.6 | 6.50 | 42.1 | 54.0 | 11.9 | Horizontal |
| 9648.0 | 32.9 | 8.50 | 41.4 | 54.0 | 12.6 | Vertical |
| 9648.0 | 33.0 | 8.30 | 41.3 | 54.0 | 12.8 | Horizontal |
| 12060.0 | 30.8 | 10.90 | 41.7 | 54.0 | 12.3 | Vertical |
| 12060.0 | 30.0 | 10.80 | 40.8 | 54.0 | 13.2 | Horizontal |

Result of Tx mode (2437.0 MHz) (802.11g) (9kHz – 30MHz): Pass

| Field Strength of Spurious Emissions Peak Value | | | | | | |
|---|---------------------------------|------------------------------|-----------------------------------|--------------------------------|--------------------|---------------------|
| Frequency MHz | Measured Level dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Field Strength μ V/m | Limit μ V/m | E-Field Polarity |
| Emissions detected are more than 20 dB below the FCC Limits | | | | | | |

Result of Tx mode (2437.0 MHz) (802.11g) (1GHz-25GHz): Pass

| Field Strength of Spurious Emissions Peak Value | | | | | | |
|--|-------------------------------------|------------------------------|-----------------------------------|------------------------------|--------------|---------------------|
| Frequency MHz | Measured Level @3m dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Margin dB | E-Field Polarity |
| 4874.0 | 56.3 | 0.82 | 57.1 | 74.0 | 16.9 | Vertical |
| 4874.0 | 57.4 | 0.52 | 57.9 | 74.0 | 16.1 | Horizontal |
| 7311.0 | 50.0 | 7.00 | 57.0 | 74.0 | 17.0 | Vertical |
| 7311.0 | 50.7 | 6.50 | 57.2 | 74.0 | 16.8 | Horizontal |
| 9748.0 | 47.1 | 8.50 | 55.6 | 74.0 | 18.4 | Vertical |
| 9748.0 | 47.2 | 8.30 | 55.5 | 74.0 | 18.5 | Horizontal |
| 12185.0 | 45.1 | 10.90 | 56.0 | 74.0 | 18.0 | Vertical |
| 12185.0 | 45.5 | 10.80 | 56.3 | 74.0 | 17.7 | Horizontal |

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| Field Strength of Spurious Emissions | | | | | | |
|--------------------------------------|-------------------------------------|------------------------------|-----------------------------------|------------------------------|--------------|---------------------|
| Average Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Margin dB | E-Field Polarity |
| 4874.0 | 41.8 | 0.82 | 42.6 | 54.0 | 11.4 | Vertical |
| 4874.0 | 41.5 | 0.52 | 42.0 | 54.0 | 12.0 | Horizontal |
| 7311.0 | 35.2 | 7.00 | 42.2 | 54.0 | 11.8 | Vertical |
| 7311.0 | 35.3 | 6.50 | 41.8 | 54.0 | 12.2 | Horizontal |
| 9748.0 | 32.2 | 8.50 | 40.7 | 54.0 | 13.3 | Vertical |
| 9748.0 | 32.8 | 8.30 | 41.1 | 54.0 | 12.9 | Horizontal |
| 12185.0 | 31.1 | 10.90 | 42.0 | 54.0 | 12.0 | Vertical |
| 12185.0 | 30.6 | 10.80 | 41.4 | 54.0 | 12.6 | Horizontal |

Result of Tx mode (2462.0 MHz) (802.11g) (9kHz – 30MHz): Pass

| Field Strength of Spurious Emissions | | | | | | |
|---|---------------------------------|------------------------------|-----------------------------------|--------------------------------|--------------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Field Strength μ V/m | Limit μ V/m | E-Field Polarity |
| Emissions detected are more than 20 dB below the FCC Limits | | | | | | |

Result of Tx mode (2462.0 MHz) (802.11g) (1GHz-25GHz): Pass

| Field Strength of Spurious Emissions | | | | | | |
|--------------------------------------|-------------------------------------|------------------------------|-----------------------------------|------------------------------|--------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Margin dB | E-Field Polarity |
| 4924.0 | 56.8 | 0.82 | 57.6 | 74.0 | 16.4 | Vertical |
| 4924.0 | 57.3 | 0.52 | 57.8 | 74.0 | 16.2 | Horizontal |
| 7386.0 | 50.2 | 7.00 | 57.2 | 74.0 | 16.8 | Vertical |
| 7386.0 | 51.1 | 6.50 | 57.6 | 74.0 | 16.4 | Horizontal |
| 9848.0 | 47.7 | 8.50 | 56.2 | 74.0 | 17.9 | Vertical |
| 9848.0 | 47.1 | 8.30 | 55.4 | 74.0 | 18.6 | Horizontal |
| 12310.0 | 45.2 | 10.90 | 56.1 | 74.0 | 17.9 | Vertical |
| 12310.0 | 45.2 | 10.80 | 56.0 | 74.0 | 18.0 | Horizontal |

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| Field Strength of Spurious Emissions Average Value | | | | | | |
|---|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 4924.0 | 41.6 | 0.82 | 42.4 | 54.0 | 11.6 | Vertical |
| 4924.0 | 41.3 | 0.52 | 41.8 | 54.0 | 12.2 | Horizontal |
| 7386.0 | 35.2 | 7.00 | 42.2 | 54.0 | 11.8 | Vertical |
| 7386.0 | 35.3 | 6.50 | 41.8 | 54.0 | 12.2 | Horizontal |
| 9848.0 | 33.0 | 8.50 | 41.5 | 54.0 | 12.5 | Vertical |
| 9848.0 | 32.3 | 8.30 | 40.6 | 54.0 | 13.4 | Horizontal |
| 12310.0 | 29.2 | 10.90 | 40.1 | 54.0 | 13.9 | Vertical |
| 12310.0 | 31.2 | 10.80 | 42.0 | 54.0 | 12.0 | Horizontal |

Result of Tx mode (2412.0 MHz) (802.11n20) (9kHz – 30MHz): Pass

| Field Strength of Spurious Emissions Peak Value | | | | | | |
|---|---------------------------|------------------------------|-----------------------------|---------------------------|---------------|---------------------|
| Frequency MHz | Measured Level dBμV | Correction Factor dB/m | Field Strength dBμV/m | Field Strength μV/m | Limit μV/m | E-Field Polarity |
| Emissions detected are more than 20 dB below the FCC Limits | | | | | | |

Result of Tx mode (2412.0 MHz) (802.11n20) (1GHz-25GHz): Pass

| Field Strength of Spurious Emissions Peak Value | | | | | | |
|--|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 4824.0 | 56.3 | 0.82 | 57.1 | 74.0 | 16.9 | Vertical |
| 4824.0 | 57.0 | 0.52 | 57.5 | 74.0 | 16.5 | Horizontal |
| 7236.0 | 50.0 | 7.00 | 57.0 | 74.0 | 17.0 | Vertical |
| 7236.0 | 50.8 | 6.50 | 57.3 | 74.0 | 16.7 | Horizontal |
| 9648.0 | 47.3 | 8.50 | 55.8 | 74.0 | 18.2 | Vertical |
| 9648.0 | 47.6 | 8.30 | 55.9 | 74.0 | 18.1 | Horizontal |
| 12060.0 | 45.2 | 10.90 | 56.1 | 74.0 | 17.9 | Vertical |
| 12060.0 | 45.5 | 10.80 | 56.3 | 74.0 | 17.7 | Horizontal |

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| Field Strength of Spurious Emissions | | | | | | |
|--------------------------------------|-----------|------------|----------|--------|--------|------------|
| Average Value | | | | | | |
| Frequency | Measured | Correction | Field | Limit | Margin | E-Field |
| | Level @3m | Factor | Strength | @3m | | Polarity |
| MHz | dBμV | dB/m | dBμV/m | dBμV/m | dB | |
| 4824.0 | 41.2 | 0.82 | 42.0 | 54.0 | 12.0 | Vertical |
| 4824.0 | 41.4 | 0.52 | 41.9 | 54.0 | 12.1 | Horizontal |
| 7236.0 | 35.1 | 7.00 | 42.1 | 54.0 | 11.9 | Vertical |
| 7236.0 | 35.0 | 6.50 | 41.5 | 54.0 | 12.5 | Horizontal |
| 9648.0 | 31.8 | 8.50 | 40.3 | 54.0 | 13.7 | Vertical |
| 9648.0 | 33.2 | 8.30 | 41.5 | 54.0 | 12.6 | Horizontal |
| 12060.0 | 30.2 | 10.90 | 41.1 | 54.0 | 12.9 | Vertical |
| 12060.0 | 30.7 | 10.80 | 41.5 | 54.0 | 12.5 | Horizontal |

Result of Tx mode (2437.0 MHz) (802.11n20) (9kHz – 30MHz): Pass

| Field Strength of Spurious Emissions | | | | | | |
|---|----------|------------|----------|----------|-------|----------|
| Peak Value | | | | | | |
| Frequency | Measured | Correction | Field | Field | Limit | E-Field |
| MHz | Level | Factor | Strength | Strength | | Polarity |
| | dBμV | dB/m | dBμV/m | μV/m | μV/m | |
| Emissions detected are more than 20 dB below the FCC Limits | | | | | | |

Result of Tx mode (2437.0 MHz) (802.11n20) (1GHz-25GHz): Pass

| Field Strength of Spurious Emissions | | | | | | |
|--------------------------------------|-----------|------------|----------|--------|--------|------------|
| Peak Value | | | | | | |
| Frequency | Measured | Correction | Field | Limit | Margin | E-Field |
| | Level @3m | Factor | Strength | @3m | | Polarity |
| MHz | dBμV | dB/m | dBμV/m | dBμV/m | dB | |
| 4874.0 | 57.2 | 0.82 | 58.0 | 74.0 | 16.0 | Vertical |
| 4874.0 | 57.0 | 0.52 | 57.5 | 74.0 | 16.5 | Horizontal |
| 7311.0 | 50.0 | 7.00 | 57.0 | 74.0 | 17.0 | Vertical |
| 7311.0 | 50.7 | 6.50 | 57.2 | 74.0 | 16.8 | Horizontal |
| 9748.0 | 47.0 | 8.50 | 55.5 | 74.0 | 18.5 | Vertical |
| 9748.0 | 47.1 | 8.30 | 55.4 | 74.0 | 18.6 | Horizontal |
| 12185.0 | 45.2 | 10.90 | 56.1 | 74.0 | 17.9 | Vertical |
| 12185.0 | 45.4 | 10.80 | 56.2 | 74.0 | 17.8 | Horizontal |

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| Field Strength of Spurious Emissions | | | | | | |
|--------------------------------------|-----------|------------|----------|--------|--------|------------|
| Average Value | | | | | | |
| Frequency | Measured | Correction | Field | Limit | Margin | E-Field |
| | Level @3m | Factor | Strength | @3m | | Polarity |
| MHz | dBμV | dB/m | dBμV/m | dBμV/m | dB | |
| 4874.0 | 41.5 | 0.82 | 42.3 | 54.0 | 11.7 | Vertical |
| 4874.0 | 41.3 | 0.52 | 41.8 | 54.0 | 12.2 | Horizontal |
| 7311.0 | 35.0 | 7.00 | 42.0 | 54.0 | 12.0 | Vertical |
| 7311.0 | 35.2 | 6.50 | 41.7 | 54.0 | 12.3 | Horizontal |
| 9748.0 | 34.1 | 8.50 | 42.6 | 54.0 | 11.4 | Vertical |
| 9748.0 | 32.4 | 8.30 | 40.7 | 54.0 | 13.3 | Horizontal |
| 12185.0 | 30.2 | 10.90 | 41.1 | 54.0 | 12.9 | Vertical |
| 12185.0 | 30.9 | 10.80 | 41.7 | 54.0 | 12.3 | Horizontal |

Result of Tx mode (2462.0 MHz) (802.11n20) (9kHz – 30MHz): Pass

| Field Strength of Spurious Emissions | | | | | | |
|---|----------|------------|----------|----------|-------|----------|
| Peak Value | | | | | | |
| Frequency | Measured | Correction | Field | Field | Limit | E-Field |
| MHz | Level | Factor | Strength | Strength | μV/m | Polarity |
| | dBμV | dB/m | dBμV/m | μV/m | | |
| Emissions detected are more than 20 dB below the FCC Limits | | | | | | |

Result of Tx mode (2462.0 MHz) (802.11n20) (1GHz-25GHz): Pass

| Field Strength of Spurious Emissions | | | | | | |
|--------------------------------------|-----------|------------|----------|--------|--------|------------|
| Peak Value | | | | | | |
| Frequency | Measured | Correction | Field | Limit | Margin | E-Field |
| MHz | Level @3m | Factor | Strength | @3m | dB | Polarity |
| | dBμV | dB/m | dBμV/m | dBμV/m | | |
| 4924.0 | 56.8 | 0.82 | 57.6 | 74.0 | 16.4 | Vertical |
| 4924.0 | 57.2 | 0.52 | 57.7 | 74.0 | 16.3 | Horizontal |
| 7386.0 | 50.0 | 7.00 | 57.0 | 74.0 | 17.0 | Vertical |
| 7386.0 | 50.3 | 6.50 | 56.8 | 74.0 | 17.2 | Horizontal |
| 9848.0 | 47.1 | 8.50 | 55.6 | 74.0 | 18.4 | Vertical |
| 9848.0 | 47.2 | 8.30 | 55.5 | 74.0 | 18.6 | Horizontal |
| 12310.0 | 45.2 | 10.90 | 56.1 | 74.0 | 17.9 | Vertical |
| 12310.0 | 45.2 | 10.80 | 56.0 | 74.0 | 18.0 | Horizontal |

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| Field Strength of Spurious Emissions Average Value | | | | | | |
|---|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 4924.0 | 41.2 | 0.82 | 42.0 | 54.0 | 12.0 | Vertical |
| 4924.0 | 42.1 | 0.52 | 42.6 | 54.0 | 11.4 | Horizontal |
| 7386.0 | 34.6 | 7.00 | 41.6 | 54.0 | 12.4 | Vertical |
| 7386.0 | 35.8 | 6.50 | 42.3 | 54.0 | 11.7 | Horizontal |
| 9848.0 | 31.6 | 8.50 | 40.1 | 54.0 | 13.9 | Vertical |
| 9848.0 | 31.9 | 8.30 | 40.2 | 54.0 | 13.8 | Horizontal |
| 12310.0 | 31.2 | 10.90 | 42.1 | 54.0 | 12.0 | Vertical |
| 12310.0 | 30.7 | 10.80 | 41.5 | 54.0 | 12.5 | Horizontal |

Result of Tx mode (2422.0 MHz) (802.11n40) (9kHz – 30MHz): Pass

| Field Strength of Spurious Emissions Peak Value | | | | | | |
|---|---------------------------|------------------------------|-----------------------------|---------------------------|---------------|---------------------|
| Frequency MHz | Measured Level dBμV | Correction Factor dB/m | Field Strength dBμV/m | Field Strength μV/m | Limit μV/m | E-Field Polarity |
| Emissions detected are more than 20 dB below the FCC Limits | | | | | | |

Result of Tx mode (2422.0 MHz) (802.11n40) (1GHz-25GHz): Pass

| Field Strength of Spurious Emissions Peak Value | | | | | | |
|--|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 4844.0 | 56.6 | 0.82 | 57.4 | 74.0 | 16.6 | Vertical |
| 4844.0 | 56.4 | 0.52 | 56.9 | 74.0 | 17.1 | Horizontal |
| 7266.0 | 50.2 | 7.00 | 57.2 | 74.0 | 16.8 | Vertical |
| 7266.0 | 50.6 | 6.50 | 57.1 | 74.0 | 16.9 | Horizontal |
| 9688.0 | 46.9 | 8.50 | 55.4 | 74.0 | 18.6 | Vertical |
| 9688.0 | 47.6 | 8.30 | 55.9 | 74.0 | 18.1 | Horizontal |
| 12110.0 | 45.2 | 10.90 | 56.1 | 74.0 | 17.9 | Vertical |
| 12110.0 | 45.6 | 10.80 | 56.4 | 74.0 | 17.7 | Horizontal |

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| Field Strength of Spurious Emissions Average Value | | | | | | |
|---|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 4844.0 | 41.2 | 0.82 | 42.0 | 54.0 | 12.0 | Vertical |
| 4844.0 | 41.6 | 0.52 | 42.2 | 54.0 | 11.9 | Horizontal |
| 7266.0 | 35.1 | 7.00 | 42.1 | 54.0 | 11.9 | Vertical |
| 7266.0 | 35.3 | 6.50 | 41.8 | 54.0 | 12.2 | Horizontal |
| 9688.0 | 31.9 | 8.50 | 40.4 | 54.0 | 13.6 | Vertical |
| 9688.0 | 33.1 | 8.30 | 41.4 | 54.0 | 12.6 | Horizontal |
| 12110.0 | 30.1 | 10.90 | 41.0 | 54.0 | 13.0 | Vertical |
| 12110.0 | 30.8 | 10.80 | 41.6 | 54.0 | 12.4 | Horizontal |

Result of Tx mode (2437.0 MHz) (802.11n40) (9kHz – 30MHz): Pass

| Field Strength of Spurious Emissions Peak Value | | | | | | |
|---|---------------------------|------------------------------|-----------------------------|---------------------------|---------------|---------------------|
| Frequency MHz | Measured Level dBμV | Correction Factor dB/m | Field Strength dBμV/m | Field Strength μV/m | Limit μV/m | E-Field Polarity |
| Emissions detected are more than 20 dB below the FCC Limits | | | | | | |

Result of Tx mode (2437.0 MHz) (802.11n40) (1GHz-25GHz): Pass

| Field Strength of Spurious Emissions Peak Value | | | | | | |
|--|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 4874.0 | 56.2 | 0.82 | 57.0 | 74.0 | 17.0 | Vertical |
| 4874.0 | 56.7 | 0.52 | 57.2 | 74.0 | 16.8 | Horizontal |
| 7311.0 | 56.0 | 7.00 | 63.0 | 74.0 | 11.0 | Vertical |
| 7311.0 | 50.5 | 6.50 | 57.0 | 74.0 | 17.0 | Horizontal |
| 9748.0 | 47.0 | 8.50 | 55.5 | 74.0 | 18.5 | Vertical |
| 9748.0 | 47.5 | 8.30 | 55.8 | 74.0 | 18.2 | Horizontal |
| 12185.0 | 45.1 | 10.90 | 56.0 | 74.0 | 18.0 | Vertical |
| 12185.0 | 45.4 | 10.80 | 56.2 | 74.0 | 17.8 | Horizontal |

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| Field Strength of Spurious Emissions | | | | | | |
|--------------------------------------|-------------------------------------|------------------------------|-----------------------------------|------------------------------|--------------|---------------------|
| Average Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Margin dB | E-Field Polarity |
| 4874.0 | 41.6 | 0.82 | 42.4 | 54.0 | 11.6 | Vertical |
| 4874.0 | 41.5 | 0.52 | 42.1 | 54.0 | 12.0 | Horizontal |
| 7311.0 | 35.2 | 7.00 | 42.2 | 54.0 | 11.8 | Vertical |
| 7311.0 | 35.6 | 6.50 | 42.1 | 54.0 | 11.9 | Horizontal |
| 9748.0 | 32.2 | 8.50 | 40.7 | 54.0 | 13.3 | Vertical |
| 9748.0 | 32.4 | 8.30 | 40.7 | 54.0 | 13.3 | Horizontal |
| 12185.0 | 30.3 | 10.90 | 41.2 | 54.0 | 12.8 | Vertical |
| 12185.0 | 30.9 | 10.80 | 41.7 | 54.0 | 12.3 | Horizontal |

Result of Tx mode (2452.0 MHz) (802.11n40) (9kHz – 30MHz): Pass

| Field Strength of Spurious Emissions | | | | | | |
|---|---------------------------------|------------------------------|-----------------------------------|--------------------------------|--------------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Field Strength μ V/m | Limit μ V/m | E-Field Polarity |
| Emissions detected are more than 20 dB below the FCC Limits | | | | | | |

Result of Tx mode (2452.0 MHz) (802.11n40) (1GHz-25GHz): Pass

| Field Strength of Spurious Emissions | | | | | | |
|--------------------------------------|-------------------------------------|------------------------------|-----------------------------------|------------------------------|--------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Margin dB | E-Field Polarity |
| 4904.0 | 55.6 | 0.82 | 56.4 | 74.0 | 17.6 | Vertical |
| 4904.0 | 56.5 | 0.52 | 57.0 | 74.0 | 17.0 | Horizontal |
| 7356.0 | 49.9 | 7.00 | 56.9 | 74.0 | 17.2 | Vertical |
| 7356.0 | 49.8 | 6.50 | 56.3 | 74.0 | 17.7 | Horizontal |
| 9808.0 | 47.1 | 8.50 | 55.6 | 74.0 | 18.4 | Vertical |
| 9808.0 | 47.5 | 8.30 | 55.8 | 74.0 | 18.2 | Horizontal |
| 12260.0 | 45.2 | 10.90 | 56.1 | 74.0 | 17.9 | Vertical |
| 12260.0 | 45.3 | 10.80 | 56.1 | 74.0 | 17.9 | Horizontal |

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| Field Strength of Spurious Emissions Average Value | | | | | | |
|---|-------------------------------------|------------------------------|-----------------------------------|------------------------------|--------------|---------------------|
| Frequency MHz | Measured Level @3m dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Margin dB | E-Field Polarity |
| 4904.0 | 41.3 | 0.82 | 42.1 | 54.0 | 11.9 | Vertical |
| 4904.0 | 41.8 | 0.52 | 42.3 | 54.0 | 11.7 | Horizontal |
| 7356.0 | 34.5 | 7.00 | 41.5 | 54.0 | 12.5 | Vertical |
| 7356.0 | 35.6 | 6.50 | 42.1 | 54.0 | 12.0 | Horizontal |
| 9808.0 | 31.5 | 8.50 | 40.0 | 54.0 | 14.0 | Vertical |
| 9808.0 | 34.8 | 8.30 | 43.1 | 54.0 | 10.9 | Horizontal |
| 12260.0 | 31.2 | 10.90 | 42.1 | 54.0 | 11.9 | Vertical |
| 12260.0 | 30.7 | 10.80 | 41.5 | 54.0 | 12.5 | Horizontal |

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

* Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement (9kHz-30MHz): 2.0dB
uncertainty (30MHz -1GHz): 4.9dB
(1GHz -26GHz): 4.02dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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Radiated Emissions Measurement:

Limit :

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 5.205(c)).

Result: RF Radiated Emissions (Lowest)-802.11b

| Field Strength of Band-edge Compliance | | | | | | |
|--|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 2390.0 | 63.5 | -4.8 | 58.7 | 74.0 | 15.3 | Vertical |
| 2390.0 | 63.0 | -4.7 | 58.3 | 74.0 | 15.7 | Horizontal |

| Field Strength of Band-edge Compliance | | | | | | |
|--|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Average Value | | | | | | |
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 2390.0 | 53.5 | -4.8 | 48.7 | 54.0 | 5.3 | Vertical |
| 2390.0 | 52.6 | -4.7 | 47.9 | 54.0 | 6.1 | Horizontal |

Result: RF Radiated Emissions (Highest) -802.11b

| Field Strength of Band-edge Compliance | | | | | | |
|--|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 2483.5 | 67.1 | -4.8 | 62.3 | 74.0 | 11.7 | Vertical |
| 2483.5 | 67.7 | -4.7 | 63.0 | 74.0 | 11.0 | Horizontal |

| Field Strength of Band-edge Compliance | | | | | | |
|--|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Average Value | | | | | | |
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 2483.5 | 57.0 | -4.8 | 52.2 | 54.0 | 1.8 | Vertical |
| 2483.5 | 56.7 | -4.7 | 52.0 | 54.0 | 2.0 | Horizontal |

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Result: RF Radiated Emissions (Lowest)-802.11g

| Field Strength of Band-edge Compliance | | | | | | |
|--|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 2390.0 | 70.1 | -4.8 | 65.3 | 74.0 | 8.7 | Vertical |
| 2390.0 | 69.6 | -4.7 | 64.9 | 74.0 | 9.1 | Horizontal |

| Field Strength of Band-edge Compliance | | | | | | |
|--|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Average Value | | | | | | |
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 2390.0 | 49.1 | -4.8 | 44.3 | 54.0 | 9.7 | Vertical |
| 2390.0 | 48.1 | -4.7 | 43.4 | 54.0 | 10.7 | Horizontal |

Result: RF Radiated Emissions (Highest) -802.11g

| Field Strength of Band-edge Compliance | | | | | | |
|--|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 2483.5 | 74.9 | -4.8 | 70.1 | 74.0 | 3.9 | Vertical |
| 2483.5 | 74.8 | -4.7 | 70.1 | 74.0 | 3.9 | Horizontal |

| Field Strength of Band-edge Compliance | | | | | | |
|--|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 2390.0 | 73.4 | -4.8 | 68.6 | 74.0 | 5.4 | Vertical |
| 2390.0 | 72.3 | -4.7 | 67.6 | 74.0 | 6.4 | Horizontal |

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Result: RF Radiated Emissions (Lowest)-802.11n20

| Field Strength of Band-edge Compliance Average Value | | | | | | |
|---|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 2483.5 | 52.3 | -4.8 | 47.5 | 54.0 | 6.5 | Horizontal |
| 2483.5 | 52.6 | -4.7 | 47.9 | 54.0 | 6.2 | Horizontal |

| Field Strength of Band-edge Compliance Average Value | | | | | | |
|---|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 2390.0 | 49.4 | -4.8 | 44.6 | 54.0 | 9.4 | Vertical |
| 2390.0 | 48.9 | -4.7 | 44.2 | 54.0 | 9.8 | Horizontal |

Result: RF Radiated Emissions (Highest) -802.11n20

| Field Strength of Band-edge Compliance Peak Value | | | | | | |
|--|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 2483.5 | 73.5 | -4.8 | 68.7 | 74.0 | 5.3 | Vertical |
| 2483.5 | 74.3 | -4.7 | 69.6 | 74.0 | 4.4 | Horizontal |

| Field Strength of Band-edge Compliance Average Value | | | | | | |
|---|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dB | E-Field Polarity |
| 2483.5 | 56.4 | -4.8 | 51.6 | 54.0 | 2.4 | Horizontal |
| 2483.5 | 57.1 | -4.7 | 52.4 | 54.0 | 1.6 | Horizontal |

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Result: RF Radiated Emissions (Lowest)-802.11n40

| Field Strength of Band-edge Compliance | | | | | | |
|--|-----------|------------|----------|--------|--------|------------|
| Peak Value | | | | | | |
| Frequency | Measured | Correction | Field | Limit | Margin | E-Field |
| MHz | Level @3m | Factor | Strength | @3m | | Polarity |
| | dBμV | dB/m | dBμV/m | dBμV/m | dB | |
| 2390.0 | 73.4 | -4.8 | 68.6 | 74.0 | 5.4 | Vertical |
| 2390.0 | 72.3 | -4.7 | 67.6 | 74.0 | 6.4 | Horizontal |

| Field Strength of Band-edge Compliance | | | | | | |
|--|-----------|------------|----------|--------|--------|------------|
| Average Value | | | | | | |
| Frequency | Measured | Correction | Field | Limit | Margin | E-Field |
| MHz | Level @3m | Factor | Strength | @3m | | Polarity |
| | dBμV | dB/m | dBμV/m | dBμV/m | dB | |
| 2390.0 | 52.6 | -4.8 | 47.8 | 54.0 | 6.2 | Vertical |
| 2390.0 | 51.3 | -4.7 | 46.6 | 54.0 | 7.5 | Horizontal |

Result: RF Radiated Emissions (Highest) -802.11n40

| Field Strength of Band-edge Compliance | | | | | | |
|--|-----------|------------|----------|--------|--------|------------|
| Peak Value | | | | | | |
| Frequency | Measured | Correction | Field | Limit | Margin | E-Field |
| MHz | Level @3m | Factor | Strength | @3m | | Polarity |
| | dBμV | dB/m | dBμV/m | dBμV/m | dB | |
| 2483.5 | 70.2 | -4.8 | 65.4 | 74.0 | 8.6 | Vertical |
| 2483.5 | 71.2 | -4.7 | 66.5 | 74.0 | 7.5 | Horizontal |

| Field Strength of Band-edge Compliance | | | | | | |
|--|-----------|------------|----------|--------|--------|------------|
| Average Value | | | | | | |
| Frequency | Measured | Correction | Field | Limit | Margin | E-Field |
| MHz | Level @3m | Factor | Strength | @3m | | Polarity |
| | dBμV | dB/m | dBμV/m | dBμV/m | dB | |
| 2483.5 | 52.3 | -4.8 | 47.5 | 54.0 | 6.5 | Horizontal |
| 2483.5 | 52.6 | -4.7 | 47.9 | 54.0 | 6.2 | Horizontal |

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Limits for Radiated Emissions FCC 47 CFR 15.247|:

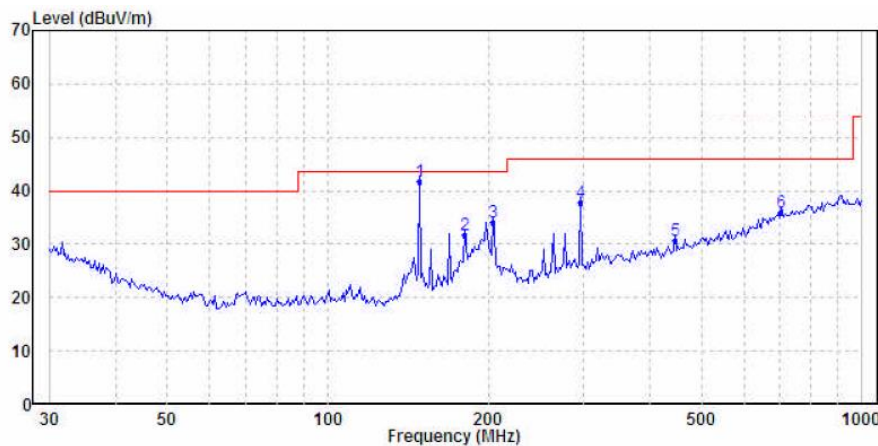
| Frequency Range | Quasi-Peak Limits |
|-----------------|-------------------|
| [MHz] | [μ V/m] |
| 0.009-0.490 | 2400/F (kHz) |
| 0.490-1.705 | 24000/F (kHz) |
| 1.705-30 | 30 |
| 30-88 | 100 |
| 88-216 | 150 |
| 216-960 | 200 |
| Above 960 | 500 |

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of WIFI TX mode: Pass

Please refer to the following table for result details (The data is the worst cases)

Horizontal



Ambient Temperature: 25.1C
Relative Humidity : 53.6%
Air Pressure : 100.9kPa

| | Freq | Level | Limit | Over | Remark | Pol/Phase |
|---|---------|--------|--------|--------|--------|------------|
| | MHz | dBuV/m | dBuV/m | dB | | |
| 1 | 148.441 | 41.70 | 43.50 | -1.80 | QP | Horizontal |
| 2 | 180.649 | 31.62 | 43.50 | -11.88 | QP | Horizontal |
| 3 | 203.523 | 34.06 | 43.50 | -9.44 | QP | Horizontal |
| 4 | 297.224 | 37.71 | 46.00 | -8.29 | QP | Horizontal |
| 5 | 446.414 | 30.70 | 46.00 | -15.30 | QP | Horizontal |
| 6 | 704.226 | 35.86 | 46.00 | -10.14 | QP | Horizontal |

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Limits for Radiated Emissions FCC 47 CFR 15.247 Class B|:

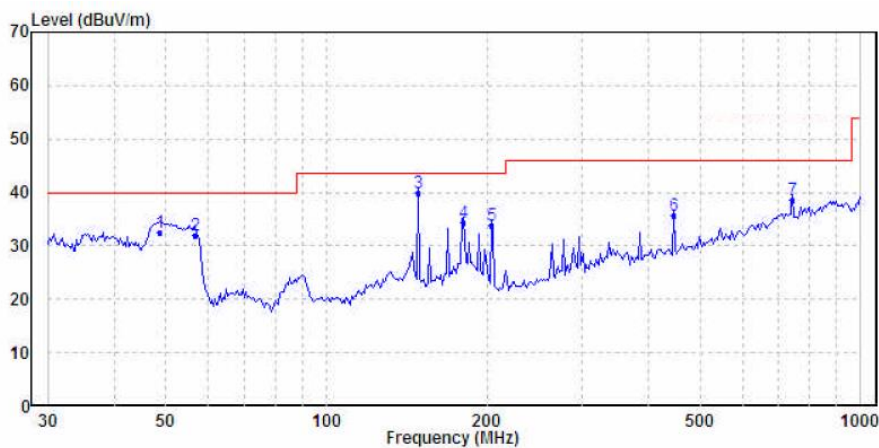
| Frequency Range | Quasi-Peak Limits |
|-----------------|---------------------|
| [MHz] | [$\mu\text{V/m}$] |
| 0.009-0.490 | 2400/F (kHz) |
| 0.490-1.705 | 24000/F (kHz) |
| 1.705-30 | 30 |
| 30-88 | 100 |
| 88-216 | 150 |
| 216-960 | 200 |
| Above 960 | 500 |

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of WIFI TX mode: Pass

Please refer to the following table for result details (The data is the worst cases)

Vertical



Ambient Temperature: 25.1C
Relative Humidity : 53.6%
Air Pressure : 100.9kPa

| | Freq | Level | Limit | Over | Remark | Pol/Phase |
|---|---------|--------|--------|--------|--------|-----------|
| | MHz | dBuV/m | Line | Limit | | |
| | | | dBuV/m | dB | | |
| 1 | 48.672 | 32.54 | 40.00 | -7.46 | QP | Vertical |
| 2 | 56.792 | 31.90 | 40.00 | -8.10 | QP | Vertical |
| 3 | 148.441 | 39.88 | 43.50 | -3.62 | QP | Vertical |
| 4 | 180.649 | 34.46 | 43.50 | -9.04 | QP | Vertical |
| 5 | 203.523 | 33.83 | 43.50 | -9.67 | QP | Vertical |
| 6 | 446.414 | 35.56 | 46.00 | -10.44 | QP | Vertical |
| 7 | 744.866 | 38.55 | 46.00 | -7.45 | QP | Vertical |

Remarks: Calculated measurement uncertainty (30MHz – 1GHz): 4.9dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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3.1.3 AC Mains Conducted Emissions (0.15MHz to 30MHz)

Test Requirement: FCC 47CFR 15.207
Test Method: ANSI C63.10:2013
Test Date: 2025-06-24
Mode of Operation: WIFI TX mode
Test Voltage: 120Va.c. 60Hz

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

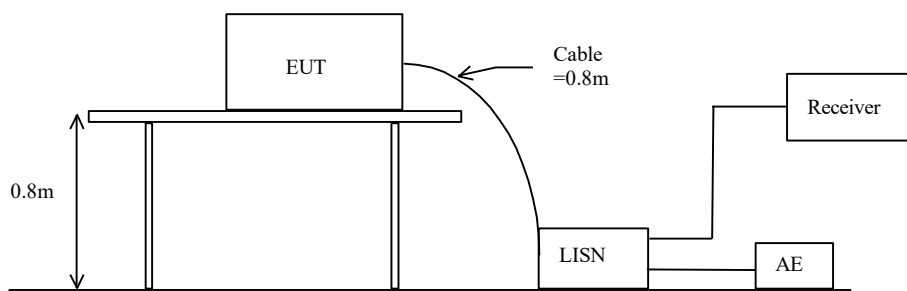
Test Method:

The test was performed in accordance with ANSI C63.10:2013, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Receiver Setting:

Bandw. = 9 kHz, Meas. Time= 10.0 ms, Step Width = 5.0kHz
Detector = MaxPeak and CISPR AV

Test Setup:



Limits for Conducted Emissions (FCC 47 CFR 15.207):

| Frequency Range [MHz] | Quasi-Peak Limits [dBμV] | Average [dBμV] |
|--------------------------|-----------------------------|-------------------|
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5.0 | 56 | 46 |
| 5.0-30.0 | 60 | 50 |

* Decreases with the logarithm of the frequency.

Remarks:

Calculated measurement uncertainty (0.15MHz – 30MHz): 3.25dB

-*- Emission(s) that is far below the corresponding limit line.

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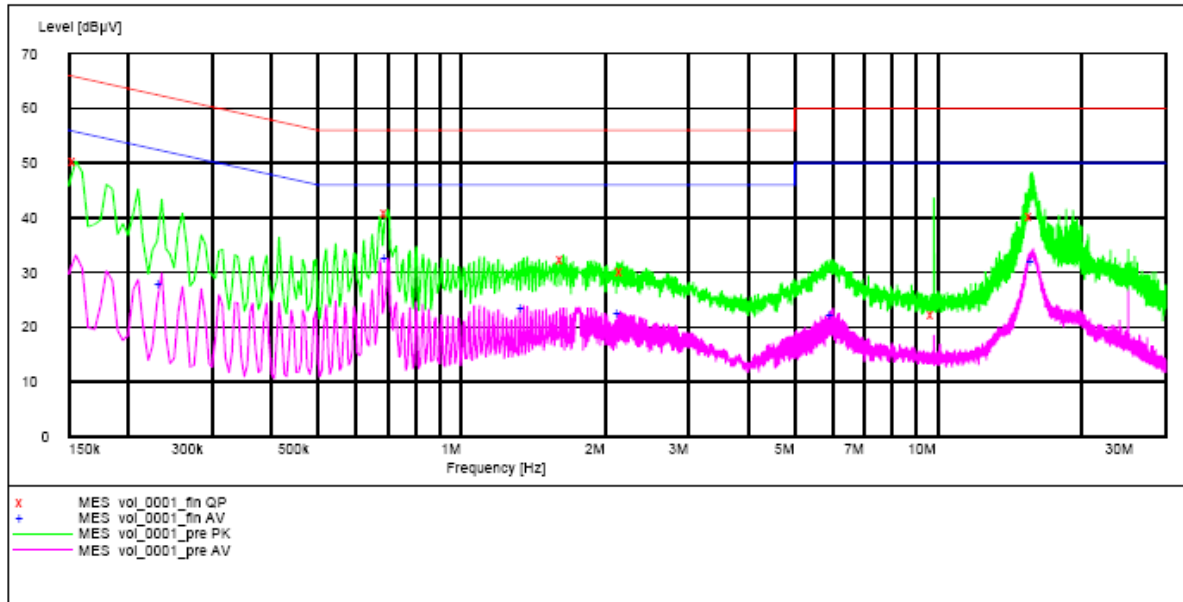
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Results of WIFI TX mode (L): PASS

Please refer to the following diagram for individual results.



MEASUREMENT RESULT: "vol_0001_fin QP"

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Line | PE |
|------------------|---------------|--------------|---------------|--------------|------|-----|
| 0.155000 | 50.40 | 9.6 | 66 | 15.3 | L1 | GND |
| 0.700000 | 41.00 | 9.7 | 56 | 15.0 | L1 | GND |
| 1.635000 | 32.30 | 9.7 | 56 | 23.7 | L1 | GND |
| 2.180000 | 30.10 | 9.7 | 56 | 25.9 | L1 | GND |
| 9.810000 | 22.40 | 9.9 | 60 | 37.6 | L1 | GND |
| 15.765000 | 40.40 | 10.2 | 60 | 19.6 | L1 | GND |

MEASUREMENT RESULT: "vol_0001_fin AV"

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Line | PE |
|------------------|---------------|--------------|---------------|--------------|------|-----|
| 0.235000 | 28.00 | 9.6 | 52 | 24.3 | L1 | GND |
| 0.700000 | 32.60 | 9.7 | 46 | 13.4 | L1 | GND |
| 1.350000 | 23.40 | 9.7 | 46 | 22.6 | L1 | GND |
| 2.155000 | 22.60 | 9.7 | 46 | 23.4 | L1 | GND |
| 6.015000 | 22.40 | 9.8 | 50 | 27.6 | L1 | GND |
| 15.840000 | 32.00 | 10.2 | 50 | 18.0 | L1 | GND |

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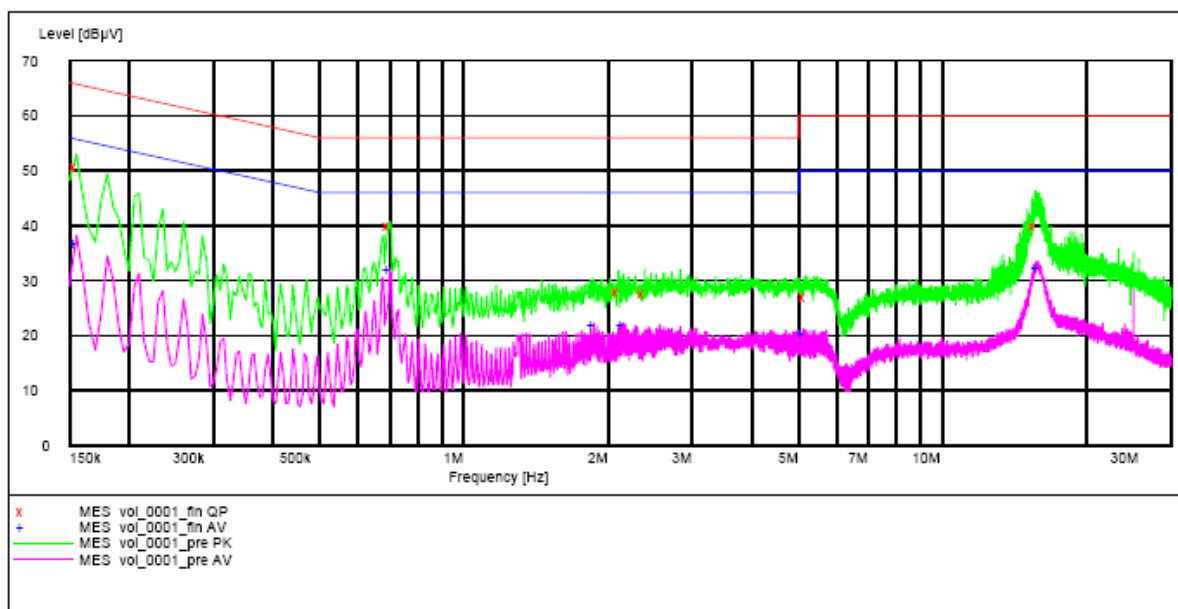
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Results of WIFI TX mode (N): PASS

Please refer to the following diagram for individual results.



MEASUREMENT RESULT: "vol_0001_fin QP"

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Line | PE |
|------------------|---------------|--------------|---------------|--------------|------|-----|
| 0.155000 | 50.60 | 9.6 | 66 | 15.1 | N | GND |
| 0.700000 | 39.90 | 9.7 | 56 | 16.1 | N | GND |
| 2.105000 | 27.90 | 9.7 | 56 | 28.1 | N | GND |
| 2.390000 | 27.80 | 9.7 | 56 | 28.2 | N | GND |
| 5.175000 | 26.90 | 9.8 | 60 | 33.1 | N | GND |
| 15.610000 | 40.00 | 10.2 | 60 | 20.0 | N | GND |

MEASUREMENT RESULT: "vol_0001_fin AV"

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Line | PE |
|------------------|---------------|--------------|---------------|--------------|------|-----|
| 0.155000 | 36.70 | 9.6 | 56 | 19.0 | N | GND |
| 0.700000 | 32.20 | 9.7 | 46 | 13.8 | N | GND |
| 1.870000 | 21.80 | 9.7 | 46 | 24.2 | N | GND |
| 2.155000 | 22.10 | 9.7 | 46 | 23.9 | N | GND |
| 5.130000 | 20.50 | 9.8 | 50 | 29.5 | N | GND |
| 15.850000 | 32.50 | 10.2 | 50 | 17.5 | N | GND |



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3.1.4 Power Spectral Density

Test Requirement: FCC 47CFR 15.247(e)
Test Method: ANSI C63.10:2013
Test Date: 2025-05-06
Mode of Operation: WIFI TX mode

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

Test Method:

The RF output of the EUT was connected to the spectrum analyzer. Set the fundamental frequency as the center frequency of the spectral analyzer. Use RBW=100kHz , VBW= 300KHz , Set the span to 1.5 times the DTS channel bandwidth. Detector = peak, Sweep time = auto couple , Trace mode = max hold. Measure the Power Spectral Density (PSD) and record the results in dBm.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

Test Limit:

The maximum power spectral density (PSD) shall not exceeded 8dBm in any 3kHz band.

Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10 \log (3 \text{ kHz} / 100 \text{ kHz}) = -15.2 \text{ dB}$



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Results of WIFI TX Mode 802.11 b (Tx:2412MHz to 2462MHz): Pass (TX Unit)

Maximum power spectral density

| Transmitter Frequency (MHz) | Maximum Power spectral density level / 3kHz band (dBm) | Maximum Power spectral density / 3kHz band limit |
|--------------------------------|--|---|
| 2412.0 | -10.066 | 8dBm |
| 2437.0 | -11.232 | 8dBm |
| 2462.0 | -10.643 | 8dBm |

Results of WIFI TX Mode 802.11 g (Tx:2412MHz to 2462MHz): Pass (TX Unit)

Maximum power spectral density

| Transmitter Frequency (MHz) | Maximum Power spectral density level / 3kHz band (dBm) | Maximum Power spectral density / 3kHz band limit |
|--------------------------------|--|---|
| 2412.0 | -12.786 | 8dBm |
| 2437.0 | -11.611 | 8dBm |
| 2462.0 | -12.647 | 8dBm |

Results of WIFI TX Mode 802.11 n20 (Tx:2412MHz to 2462MHz): Pass (TX Unit)

Maximum power spectral density

| Transmitter Frequency (MHz) | Maximum Power spectral density level / 3kHz band (dBm) | Maximum Power spectral density / 3kHz band limit |
|--------------------------------|--|---|
| 2412.0 | -12.786 | 8dBm |
| 2437.0 | -12.514 | 8dBm |
| 2462.0 | -12.305 | 8dBm |

Results of WIFI TX Mode 802.11 n40 (Tx:2422MHz to 2422MHz): Pass (TX Unit)

Maximum power spectral density

| Transmitter Frequency (MHz) | Maximum Power spectral density level / 3kHz band (dBm) | Maximum Power spectral density / 3kHz band limit |
|--------------------------------|--|---|
| 2422.0 | -16.017 | 8dBm |
| 2437.0 | -15.714 | 8dBm |
| 2452.0 | -15.583 | 8dBm |

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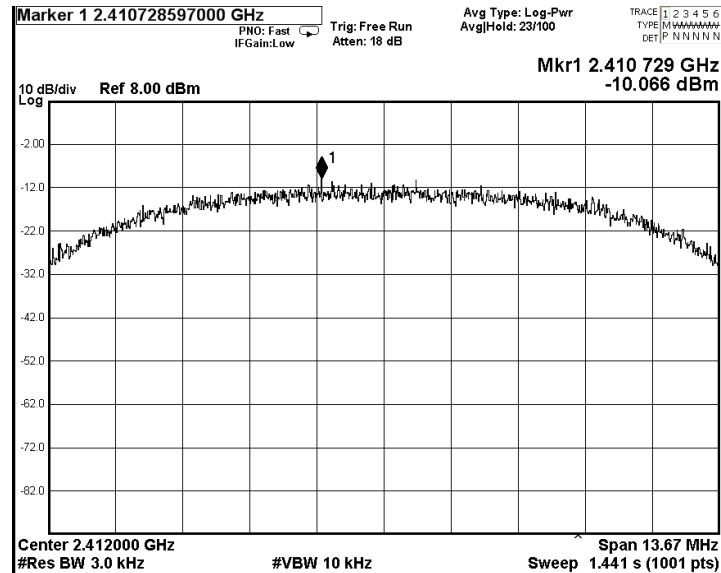


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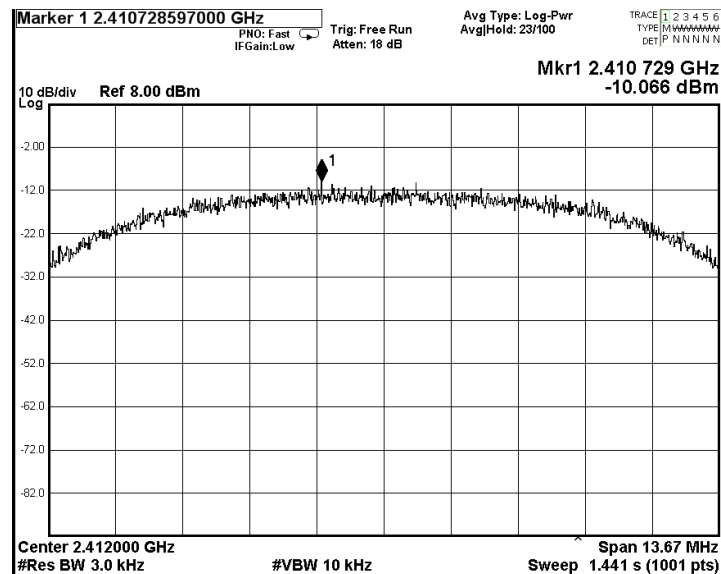
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WiFi mode 802.11 b
CH 1 (2412.0 MHz)



CH 6 (2437.0 MHz)



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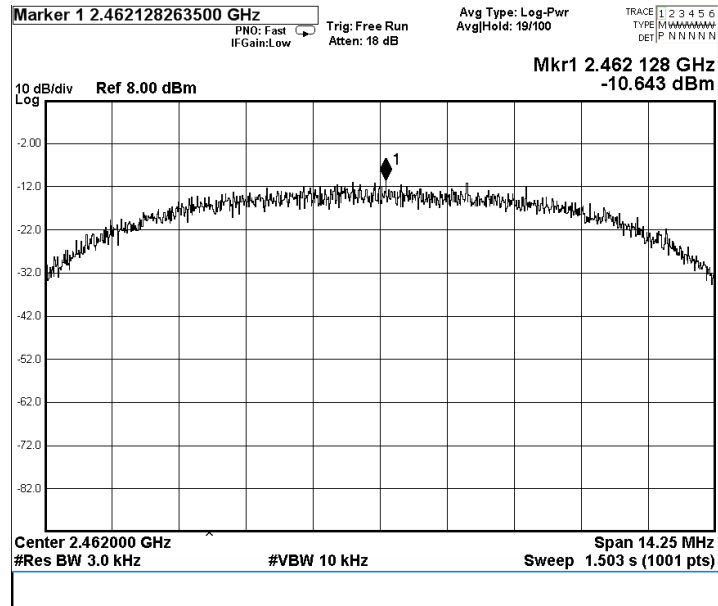
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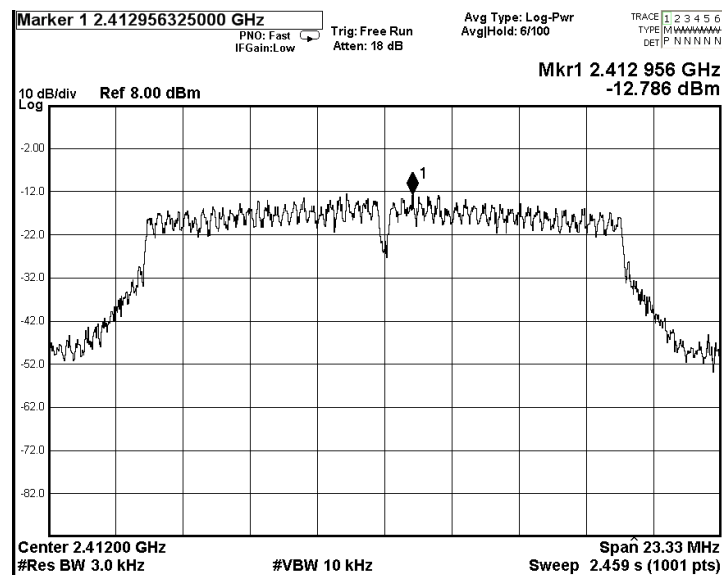
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CH 11 (2462.0 MHz)



WiFi mode 802.11 g
CH 1 (2412.0 MHz)



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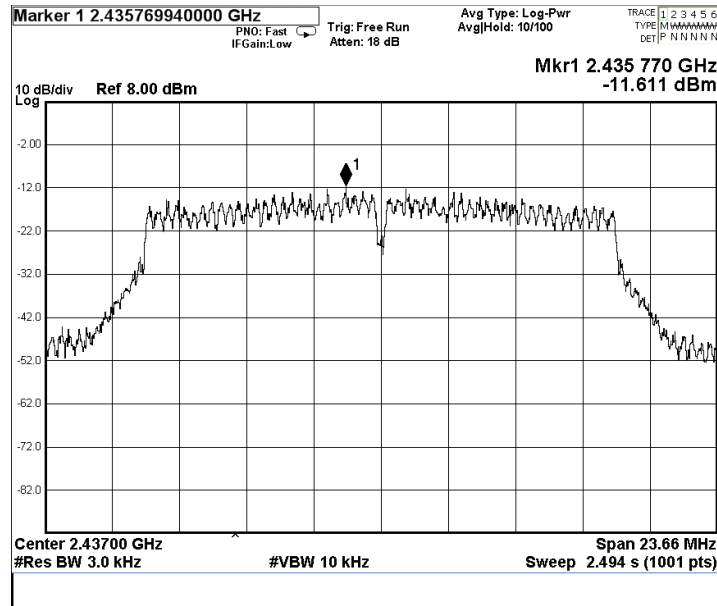
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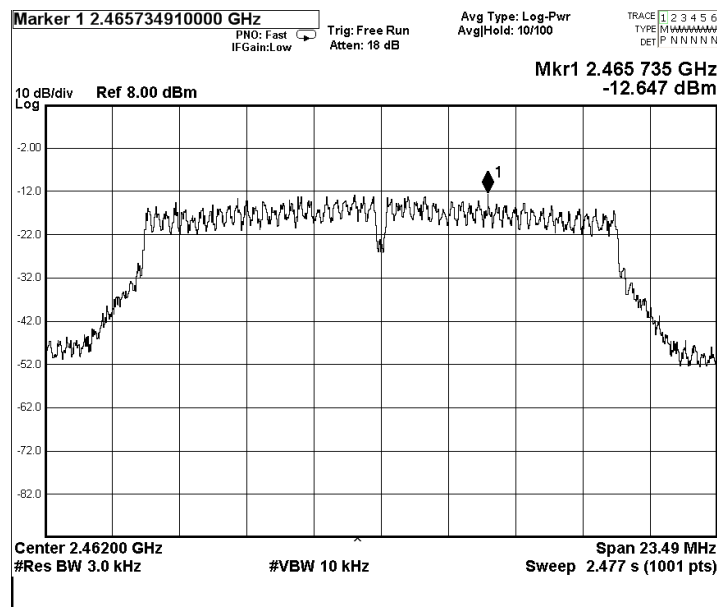
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CH 6 (2437.0 MHz)



CH 11 (2462.0 MHz)



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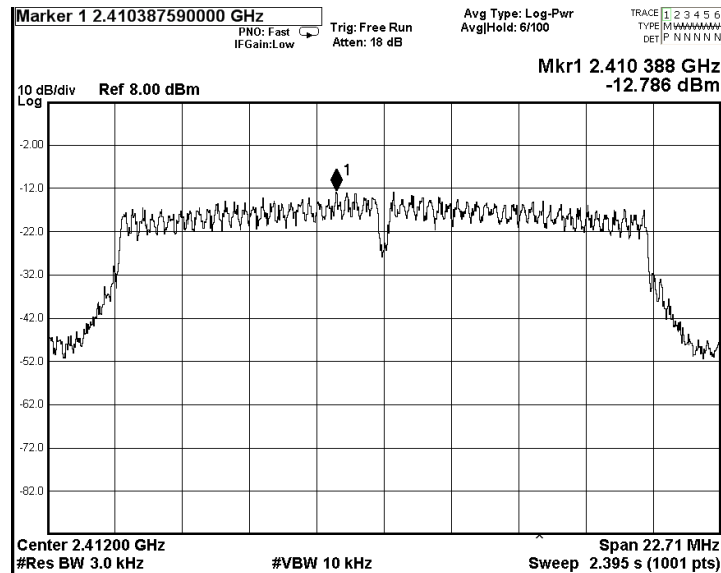


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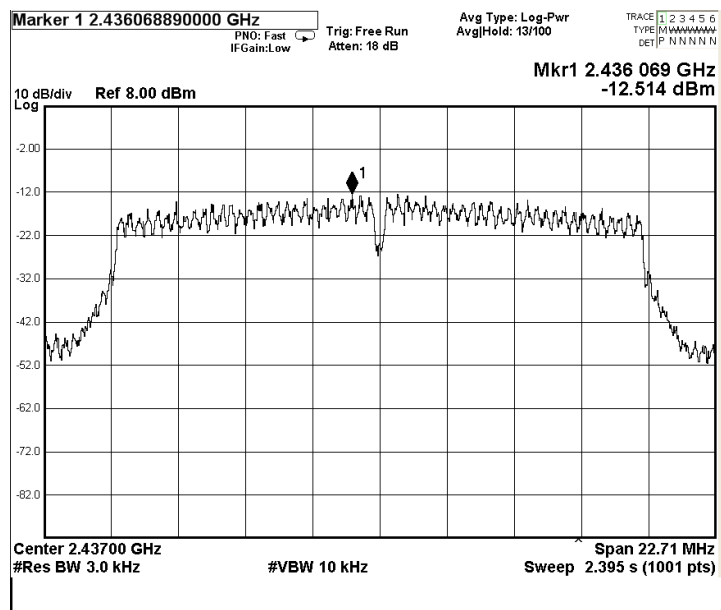
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WiFi mode 802.11 n20
CH 1 (2412.0 MHz)



CH 6 (2437.0 MHz)



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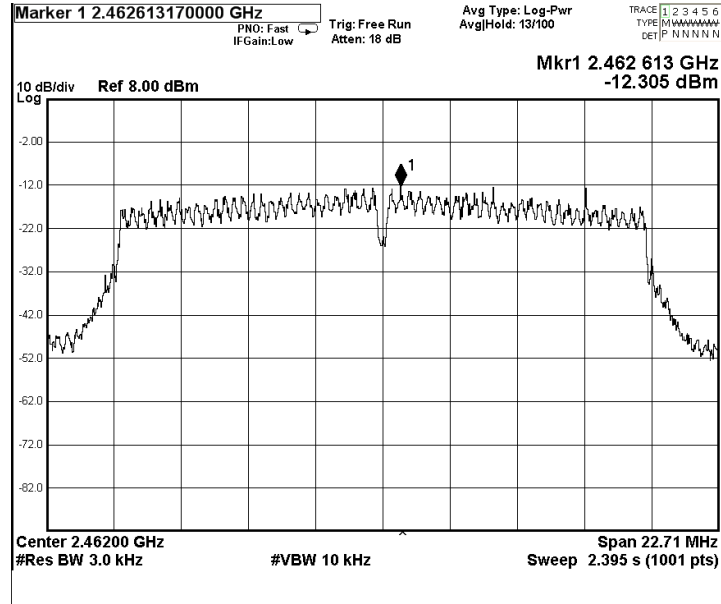


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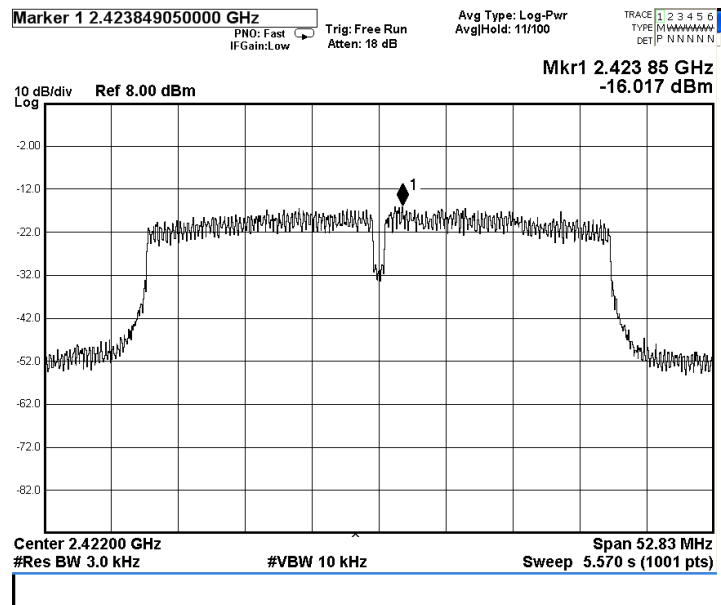
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CH 11 (2462.0 MHz)



WiFi mode 802.11 n40
CH 3 (2422.0 MHz)



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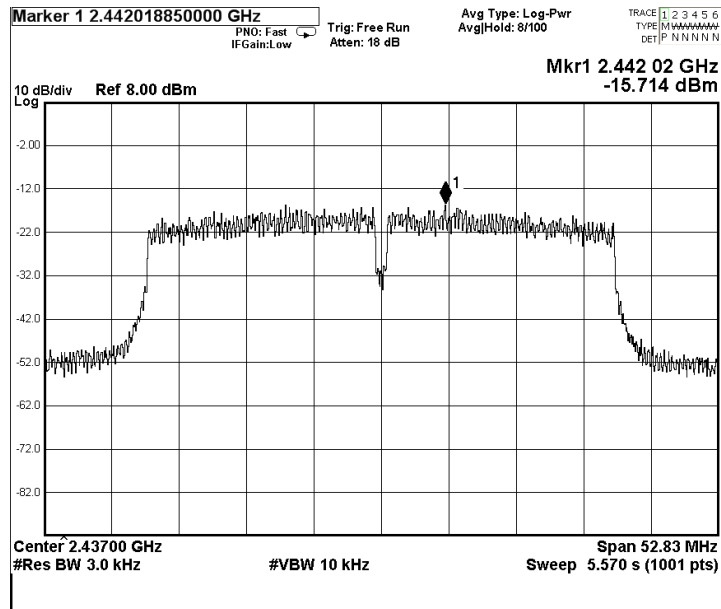


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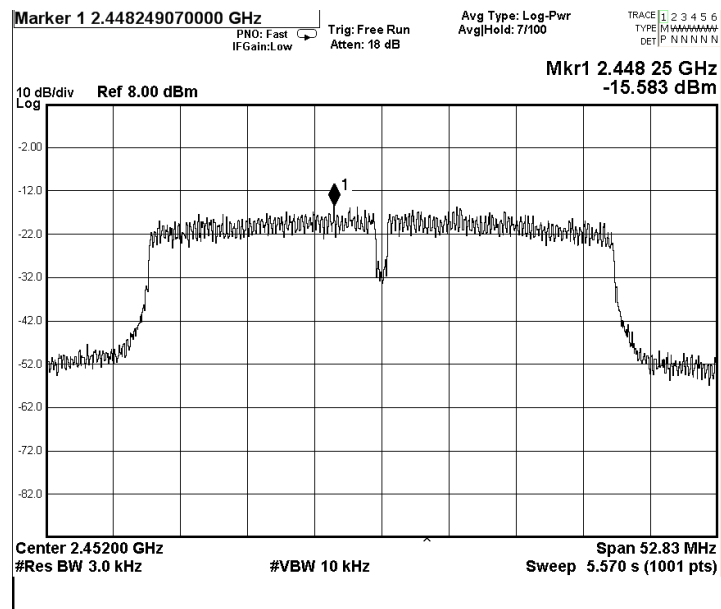
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CH 6 (2437.0 MHz)



CH 9 (2452.0 MHz)



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3.1.5 6dB Spectrum Bandwidth Measurement

Test Requirement: FCC 47CFR 15.247(a)(2)
Test Method: ANSI C63.10:2013
Test Date: 2025-05-07
Mode of Operation: WIFI TX mode

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Spectrum Analyzer Setting:

RBW = 100kHz, VBW $\geq 3 \times$ RBW, Sweep = Auto couple
Detector = Peak, Trace = Max. hold

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

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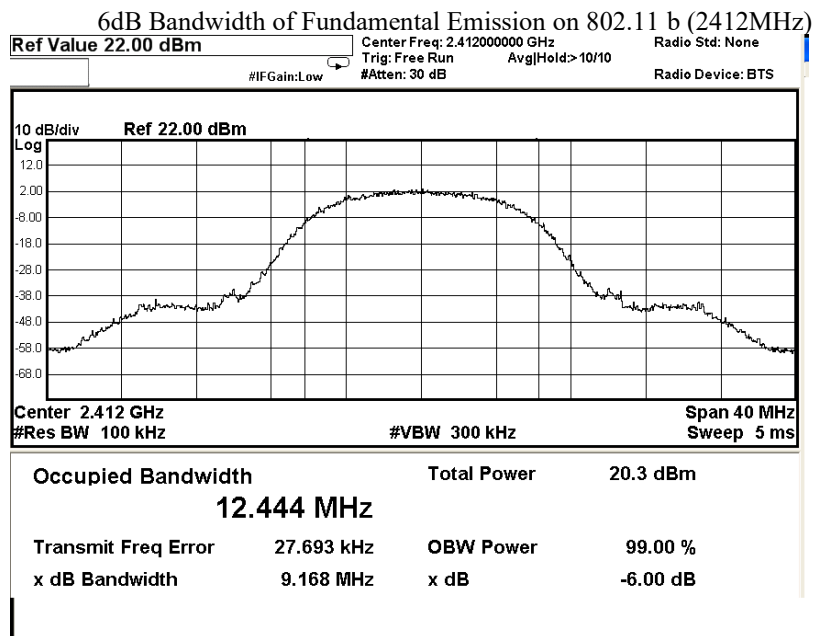
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Limits for 6dB Spectrum Bandwidth Measurement:

| Center Frequency [MHz] | 6dB Bandwidth [MHz] | FCC Limits [kHz] |
|---------------------------|------------------------|---------------------|
| 2412.0 | 9.168 | > 500 |



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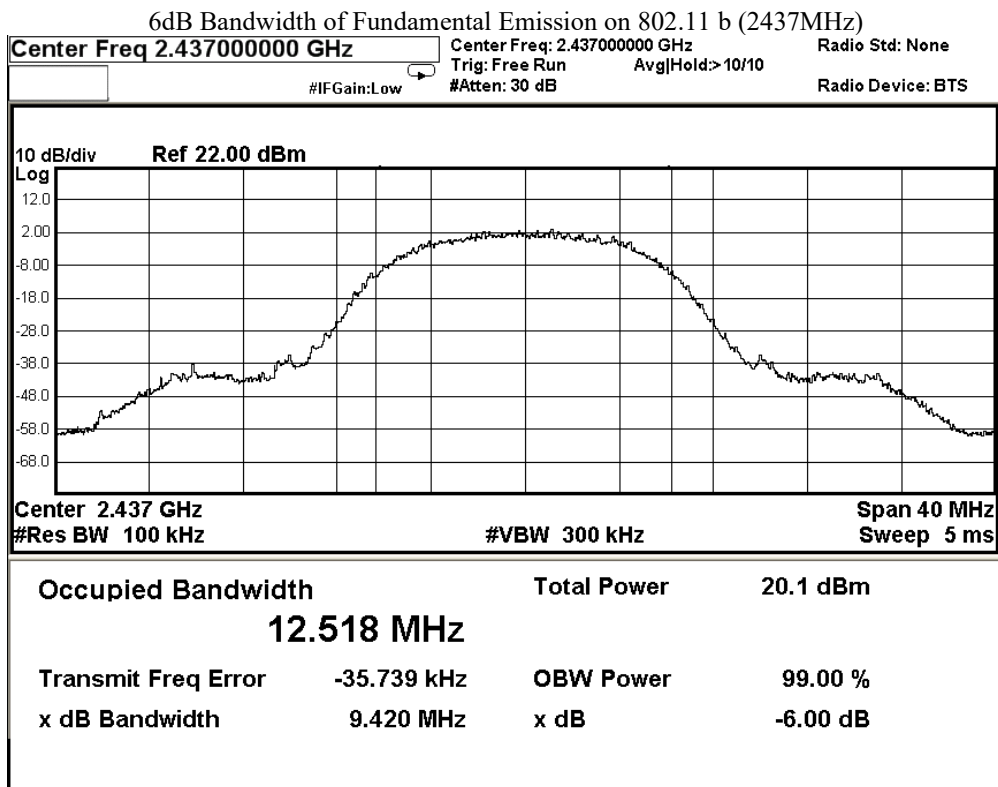
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Limits for 6dB Spectrum Bandwidth Measurement:

| Frequency Range [MHz] | 6dB Bandwidth [MHz] | FCC Limits [kHz] |
|--------------------------|------------------------|---------------------|
| 2437.0 | 9.420 | > 500 |



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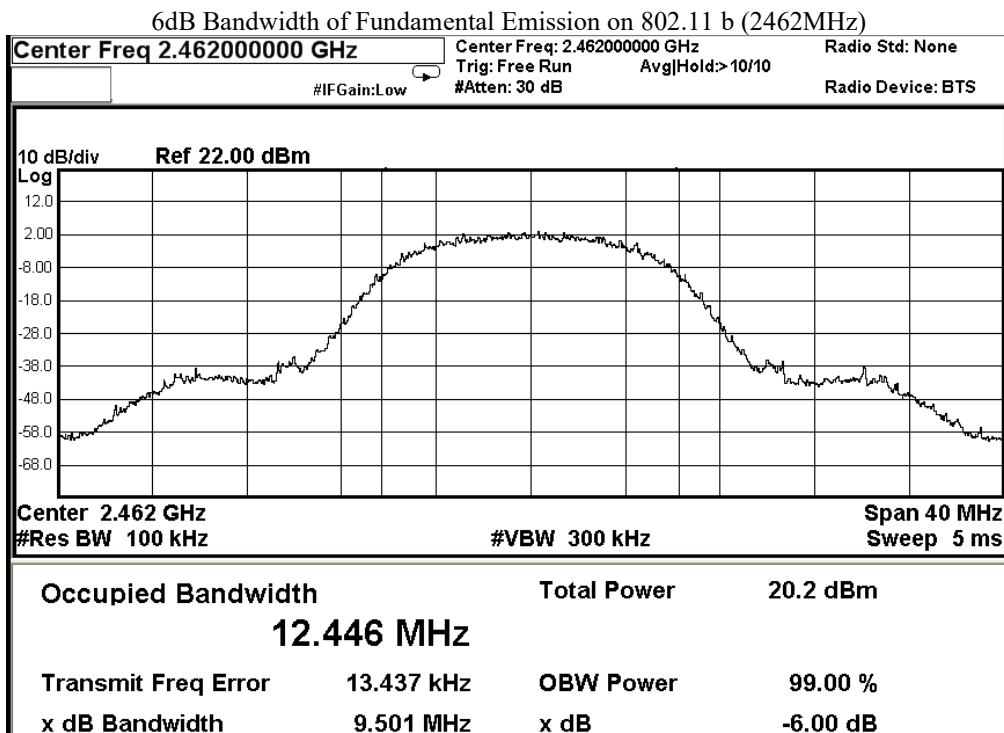
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Limits for 6dB Spectrum Bandwidth Measurement:

| Frequency Range [MHz] | 6dB Bandwidth [MHz] | FCC Limits [kHz] |
|--------------------------|------------------------|---------------------|
| 2462.0 | 9.501 | > 500 |



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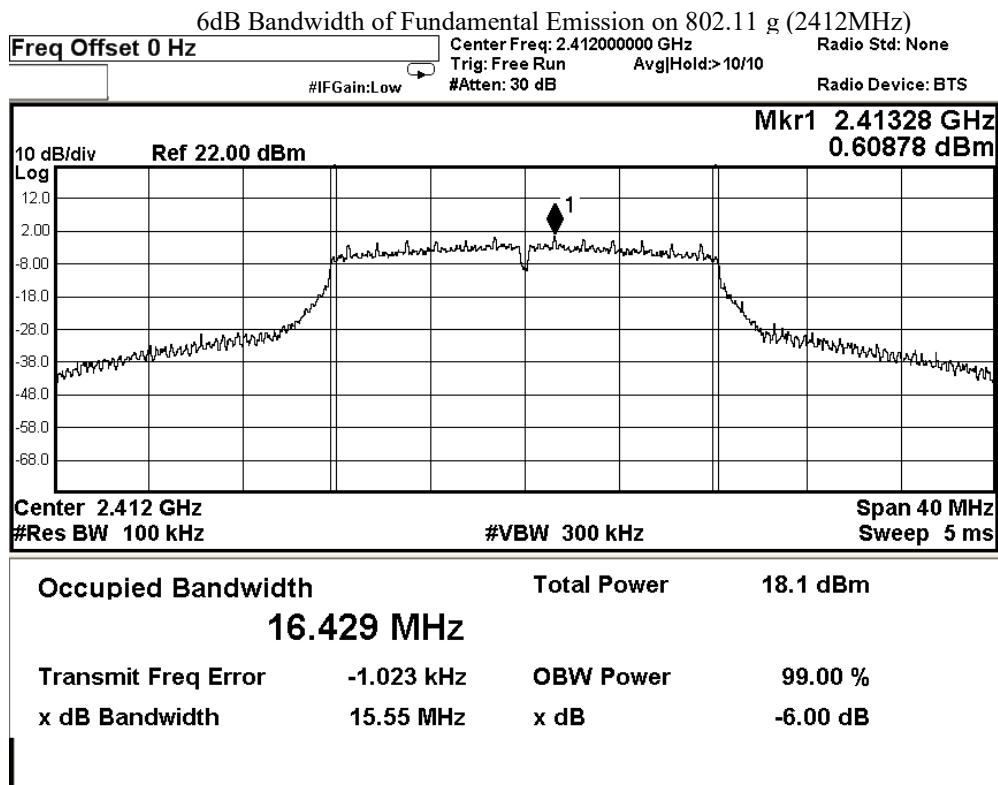
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Limits for 6dB Spectrum Bandwidth Measurement:

| Center Frequency [MHz] | 6dB Bandwidth [MHz] | FCC Limits [kHz] |
|---------------------------|------------------------|---------------------|
| 2412.0 | 15.550 | > 500 |



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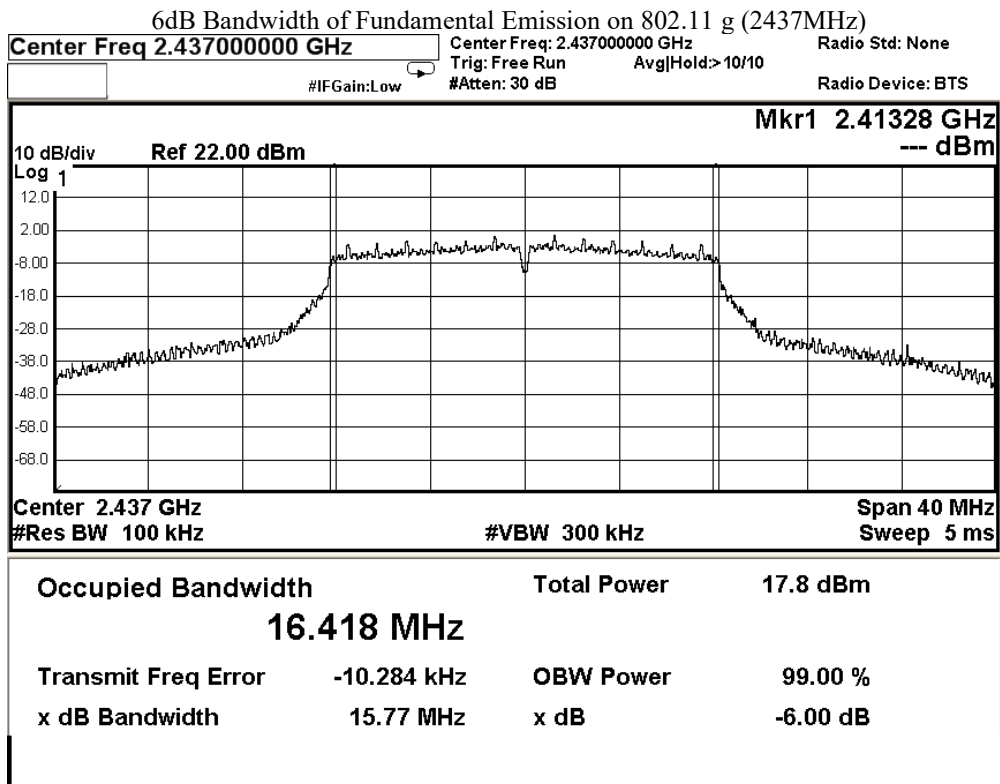
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Limits for 6dB Spectrum Bandwidth Measurement:

| Frequency Range [MHz] | 6dB Bandwidth [MHz] | FCC Limits [kHz] |
|--------------------------|------------------------|---------------------|
| 2437.0 | 15.770 | > 500 |



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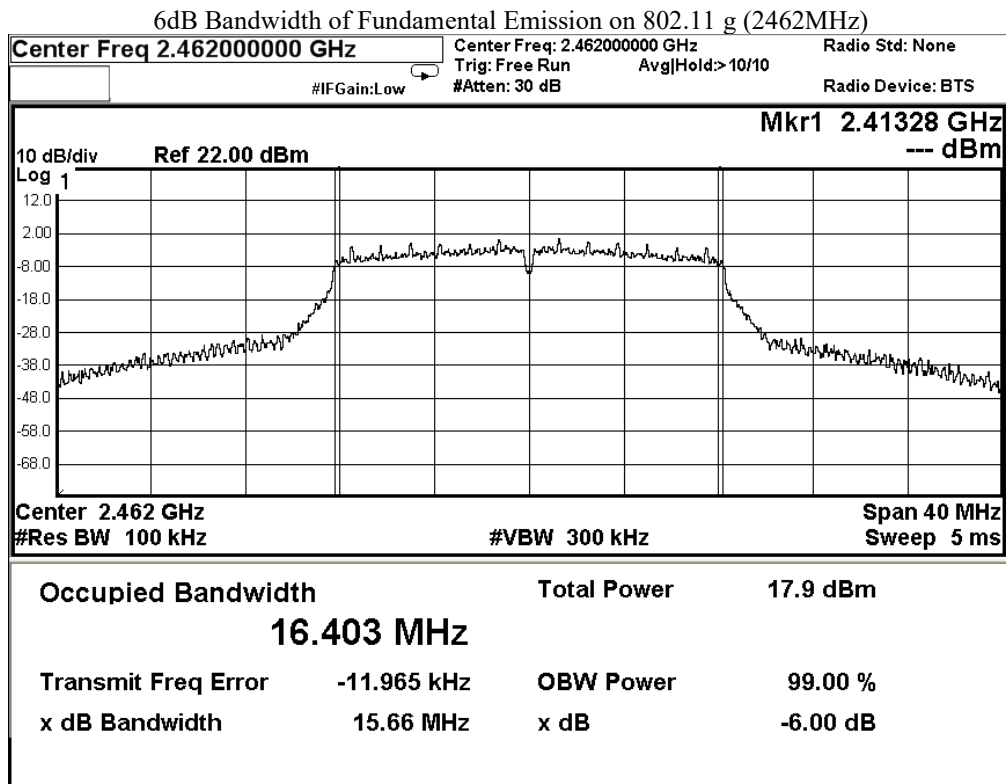
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Limits for 6dB Spectrum Bandwidth Measurement:

| Frequency Range [MHz] | 6dB Bandwidth [MHz] | FCC Limits [kHz] |
|--------------------------|------------------------|---------------------|
| 2462.0 | 15.660 | > 500 |



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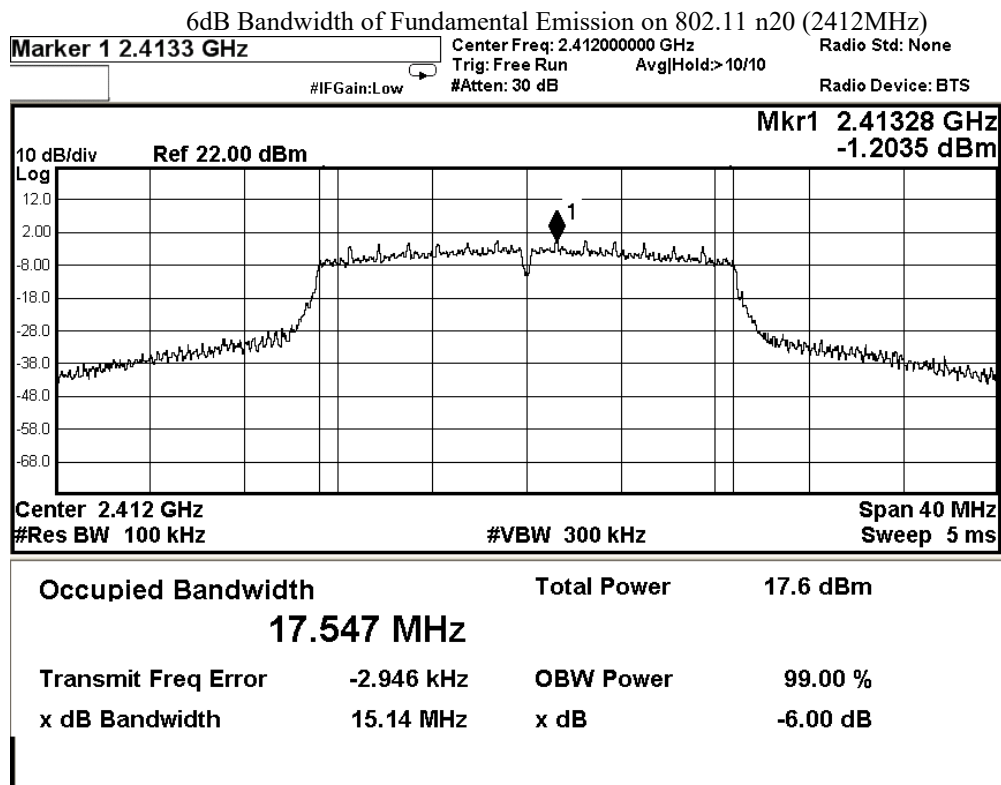
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Limits for 6dB Spectrum Bandwidth Measurement:

| Center Frequency [MHz] | 6dB Bandwidth [MHz] | FCC Limits [kHz] |
|---------------------------|------------------------|---------------------|
| 2412.0 | 15.140 | > 500 |



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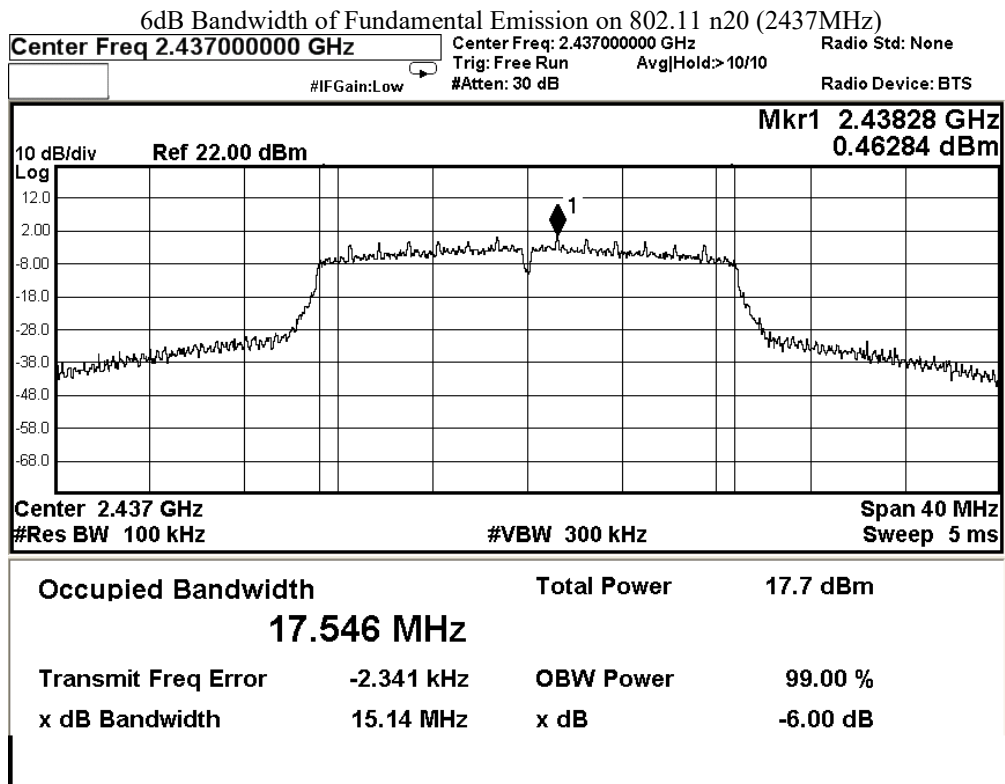
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Limits for 6dB Spectrum Bandwidth Measurement:

| Frequency Range [MHz] | 6dB Bandwidth [MHz] | FCC Limits [kHz] |
|--------------------------|------------------------|---------------------|
| 2437.0 | 15.140 | > 500 |



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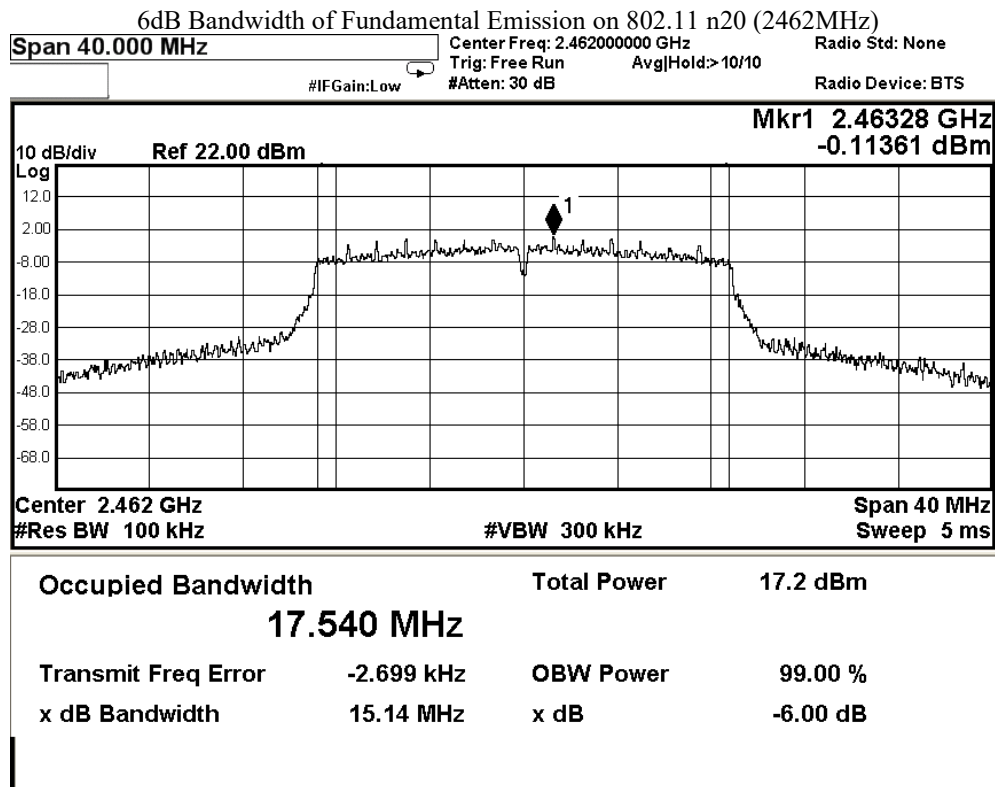
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Limits for 6dB Spectrum Bandwidth Measurement:

| Frequency Range [MHz] | 6dB Bandwidth [MHz] | FCC Limits [kHz] |
|--------------------------|------------------------|---------------------|
| 2462.0 | 15.140 | > 500 |



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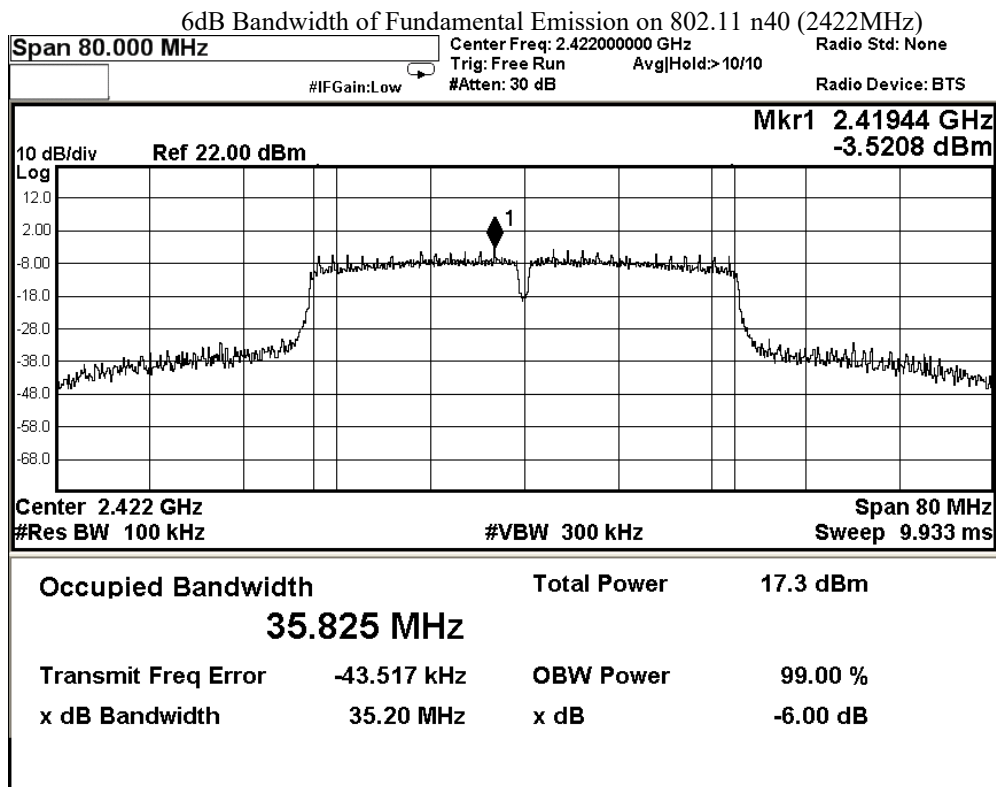
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Limits for 6dB Spectrum Bandwidth Measurement:

| Center Frequency [MHz] | 6dB Bandwidth [MHz] | FCC Limits [kHz] |
|---------------------------|------------------------|---------------------|
| 2422.0 | 35.200 | > 500 |



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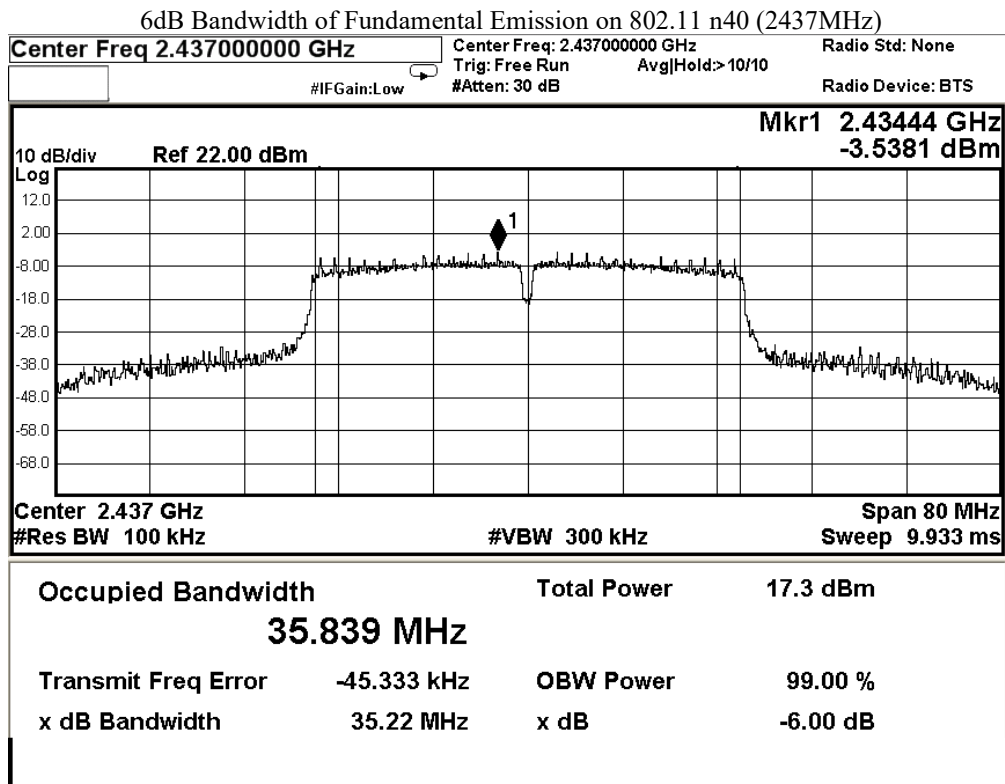
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Limits for 6dB Spectrum Bandwidth Measurement:

| Frequency Range [MHz] | 6dB Bandwidth [MHz] | FCC Limits [kHz] |
|--------------------------|------------------------|---------------------|
| 2437.0 | 35.220 | > 500 |



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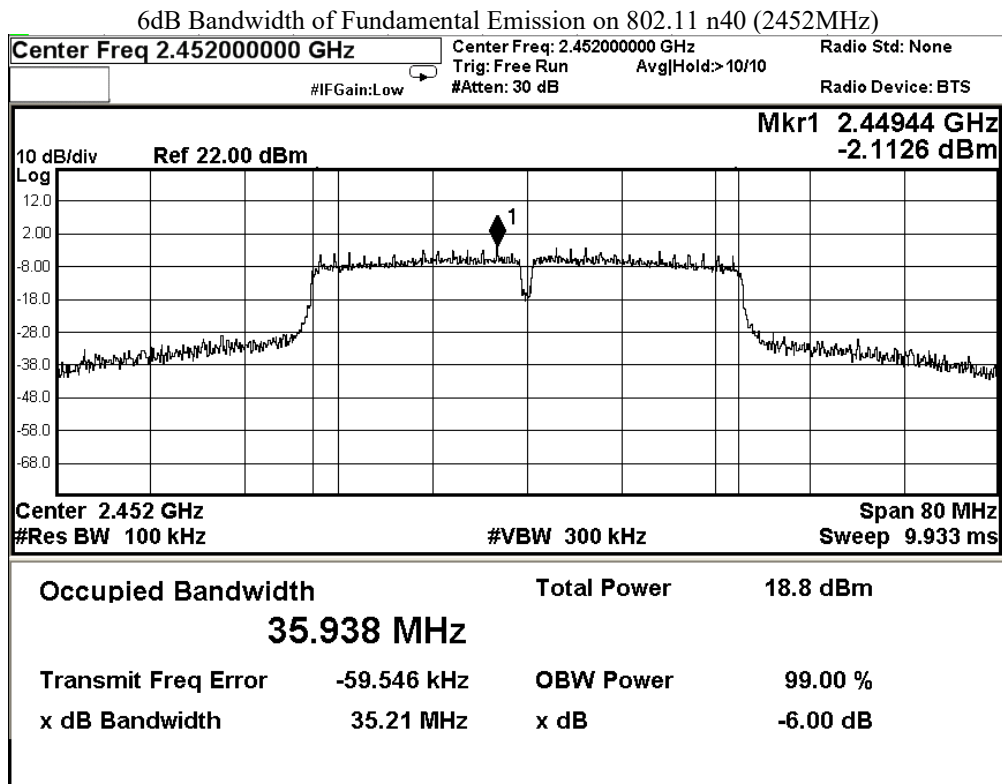
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Limits for 6dB Spectrum Bandwidth Measurement:

| Frequency Range [MHz] | 6dB Bandwidth [MHz] | FCC Limits [kHz] |
|--------------------------|------------------------|---------------------|
| 2452.0 | 35.210 | > 500 |



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3.1.6 Band Edges Measurement

Test Requirement: FCC 47CFR 15.247
Test Method: ANSI C63.10:2013
Test Date: 2025-05-07
Mode of Operation: WIFI TX mode

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

Test Method:

The band edge is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. The RBW are set to 100kHz and VBW are set to 300kHz for this measurement.

Test Setup:

As Test Setup of clause 3.1.2 in this test report.

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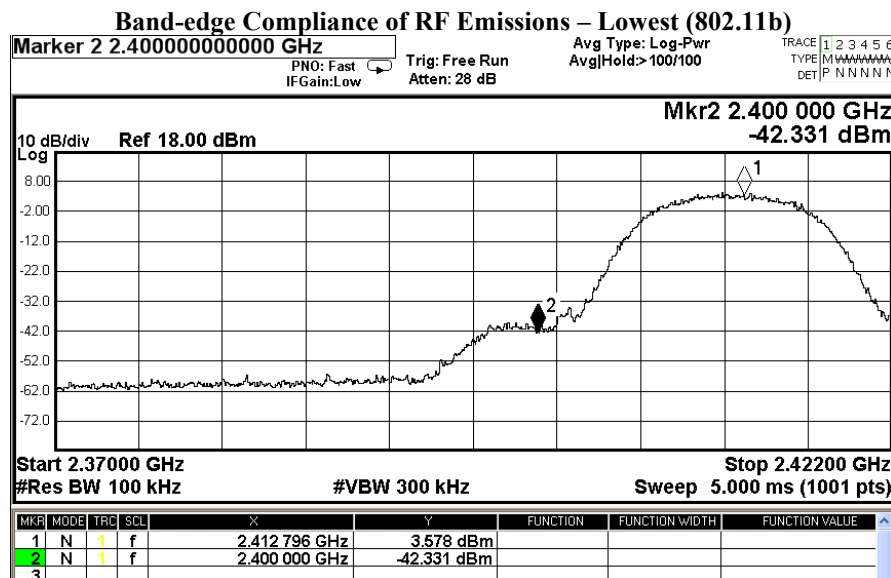
Band-edge Compliance of RF Conducted Emissions Measurement:

Limit :

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required.

Remark: The worst-case measurement results were recorded in the test report
The following plots include cable losses :0.3dB (There is no Attenuator)

| Frequency Range | Reference level | Limit | The highest conducted band edge emission | Result |
|----------------------------------|-----------------|---------|--|--------|
| [MHz] | [dBm] | [dBm] | [dBm] | |
| 2400 – Lowest Fundamental (2412) | 3.578 | -16.422 | -42.331 | Pass |



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Test Report

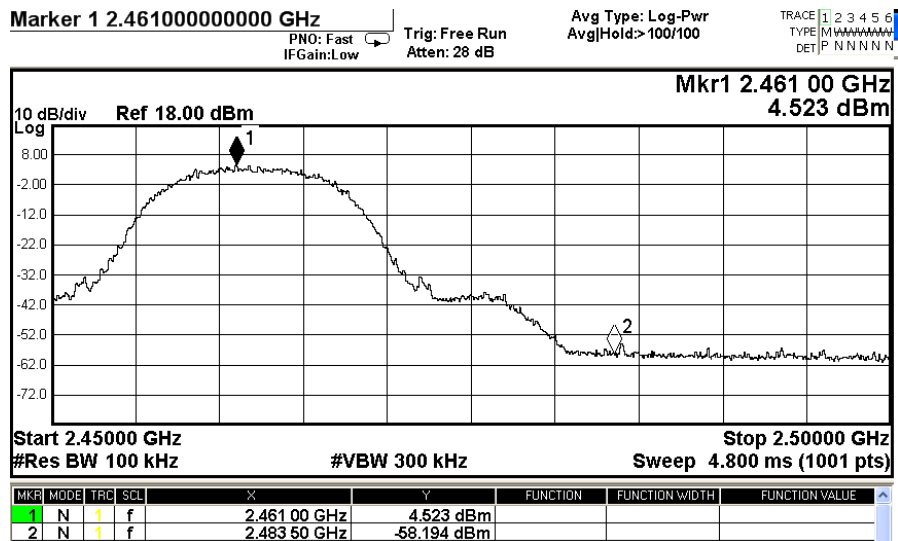
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Band-edge Compliance of RF Conducted Emissions Measurement:

| Frequency Range | Reference level | Limit | The highest conducted band edge emission | Result |
|-------------------------------------|-----------------|---------|--|--------|
| [MHz] | [dBm] | [dBm] | [dBm] | |
| 2483.5 – Highest Fundamental (2462) | 4.523 | -15.447 | -58.194 | Pass |

Band-edge Compliance of RF Emissions – Highest (802.11b)



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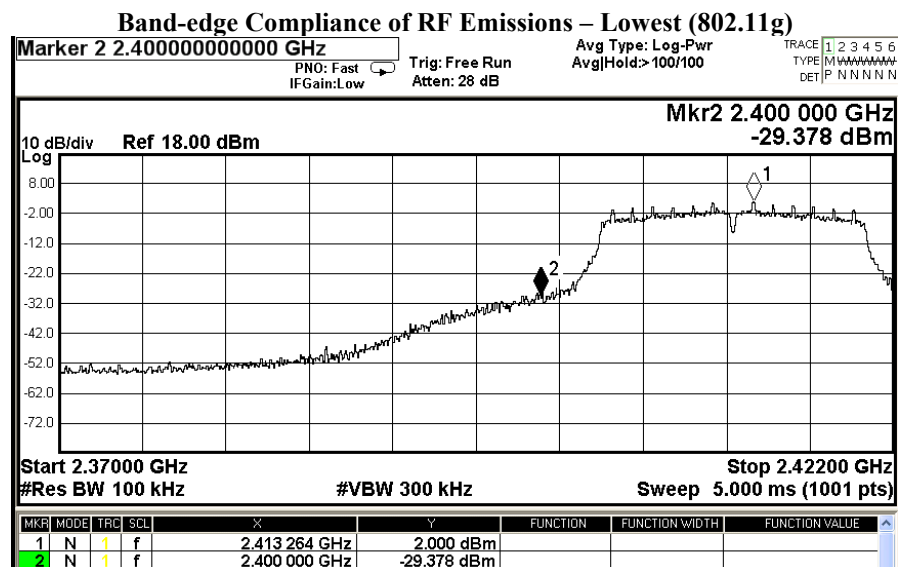
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Band-edge Compliance of RF Conducted Emissions Measurement:

| Frequency Range | Reference level | Limit | The highest conducted band edge emission | Result |
|----------------------------------|-----------------|--------|--|--------|
| [MHz] | [dBm] | [dBm] | [dBm] | |
| 2400 – Lowest Fundamental (2412) | 2.00 | -18.00 | -29.378 | Pass |



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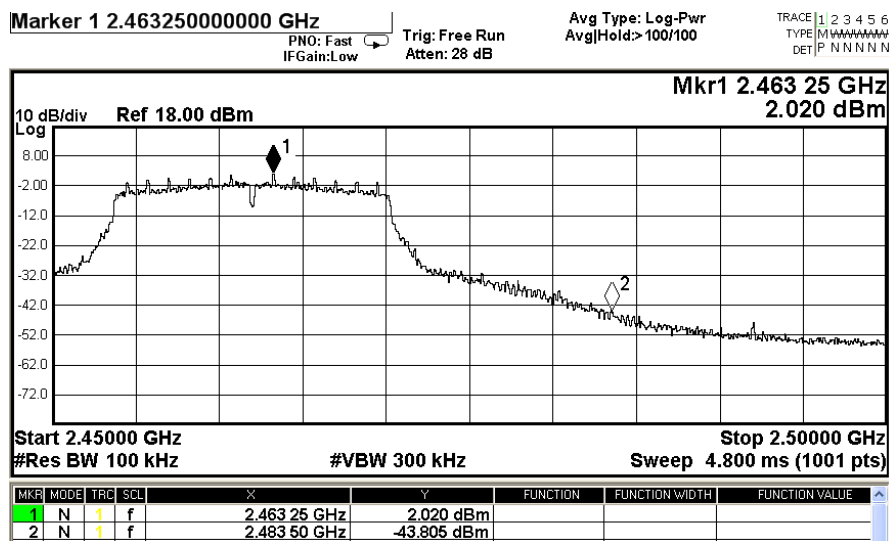
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Band-edge Compliance of RF Conducted Emissions Measurement:

| Frequency Range | Reference level | Limit | The highest conducted band edge emission | Result |
|-------------------------------------|-----------------|--------|--|--------|
| [MHz] | [dBm] | [dBm] | [dBm] | |
| 2483.5 – Highest Fundamental (2462) | 2.020 | -17.98 | -43.805 | Pass |

Band-edge Compliance of RF Emissions – Highest (802.11g)



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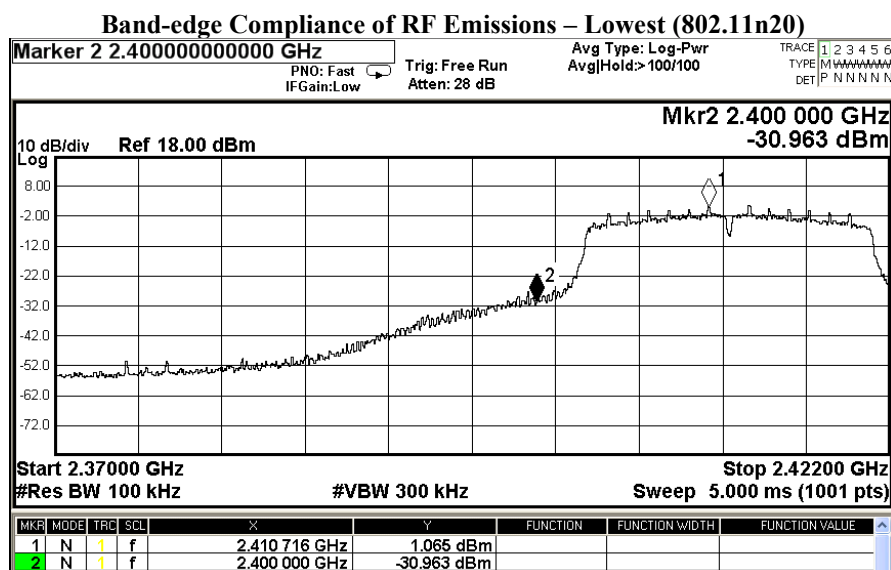
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Band-edge Compliance of RF Conducted Emissions Measurement:

| Frequency Range | Reference level | Limit | The highest conducted band edge emission | Result |
|----------------------------------|-----------------|---------|--|--------|
| [MHz] | [dBm] | [dBm] | [dBm] | |
| 2400 – Lowest Fundamental (2412) | 1.065 | -18.935 | -30.963 | Pass |





Test Report

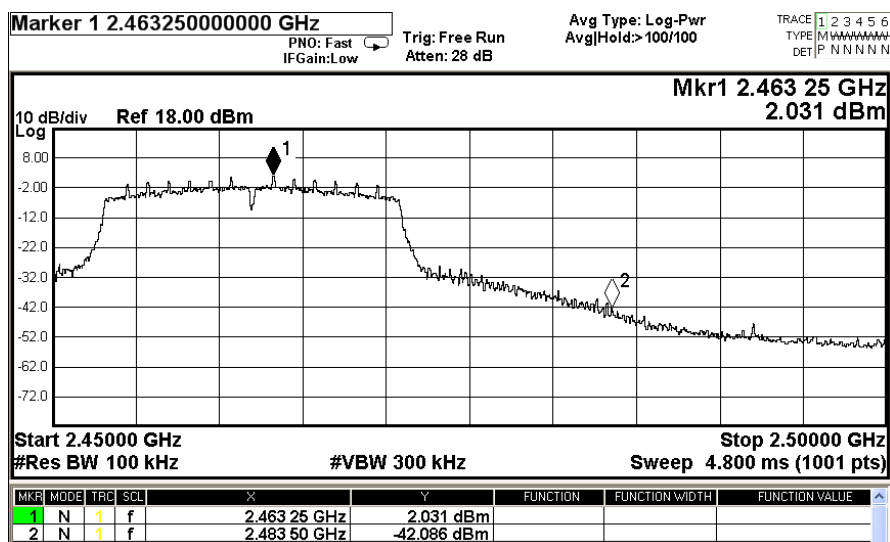
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Band-edge Compliance of RF Conducted Emissions Measurement:

| Frequency Range | Reference level | Limit | The highest conducted band edge emission | Result |
|-------------------------------------|-----------------|---------|--|--------|
| [MHz] | [dBm] | [dBm] | [dBm] | |
| 2483.5 – Highest Fundamental (2462) | 2.031 | -17.969 | -42.086 | Pass |

Band-edge Compliance of RF Emissions – Highest (802.11n20)



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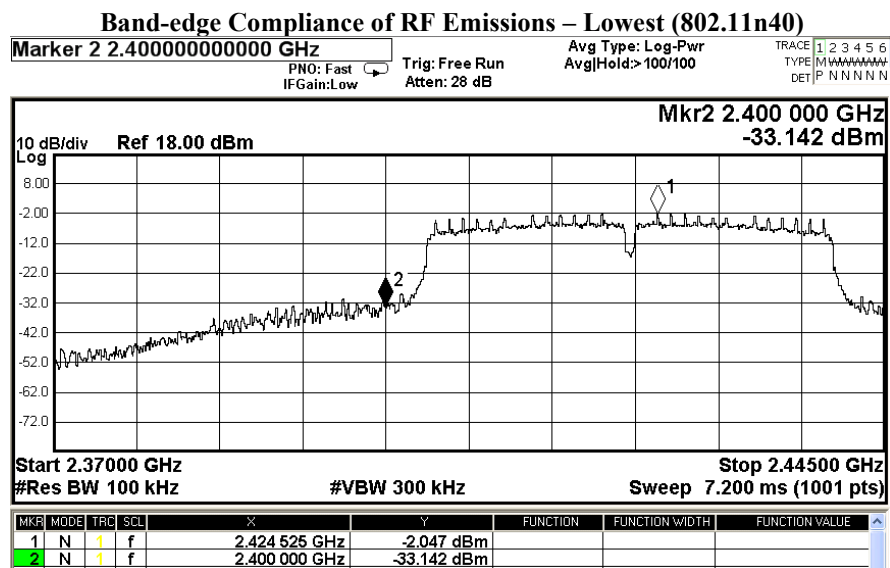
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Band-edge Compliance of RF Conducted Emissions Measurement:

| Frequency Range | Reference level | Limit | The highest conducted band edge emission | Result |
|----------------------------------|-----------------|---------|--|--------|
| [MHz] | [dBm] | [dBm] | [dBm] | |
| 2400 – Lowest Fundamental (2422) | -2.047 | -22.047 | -33.142 | Pass |



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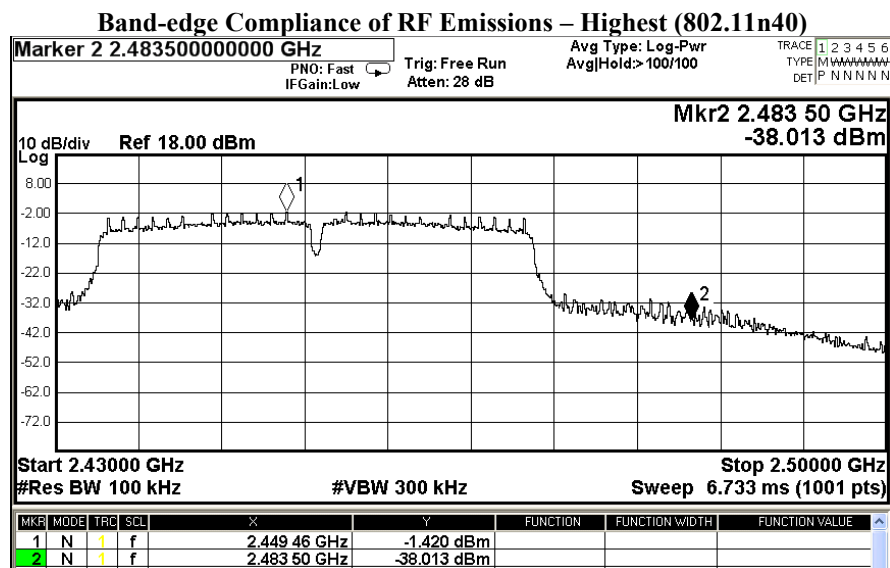
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Band-edge Compliance of RF Conducted Emissions Measurement:

| Frequency Range | Reference level | Limit | The highest conducted band edge emission | Result |
|-------------------------------------|-----------------|---------|--|--------|
| [MHz] | [dBm] | [dBm] | [dBm] | |
| 2483.5 – Highest Fundamental (2452) | -1.420 | -21.420 | -38.013 | Pass |



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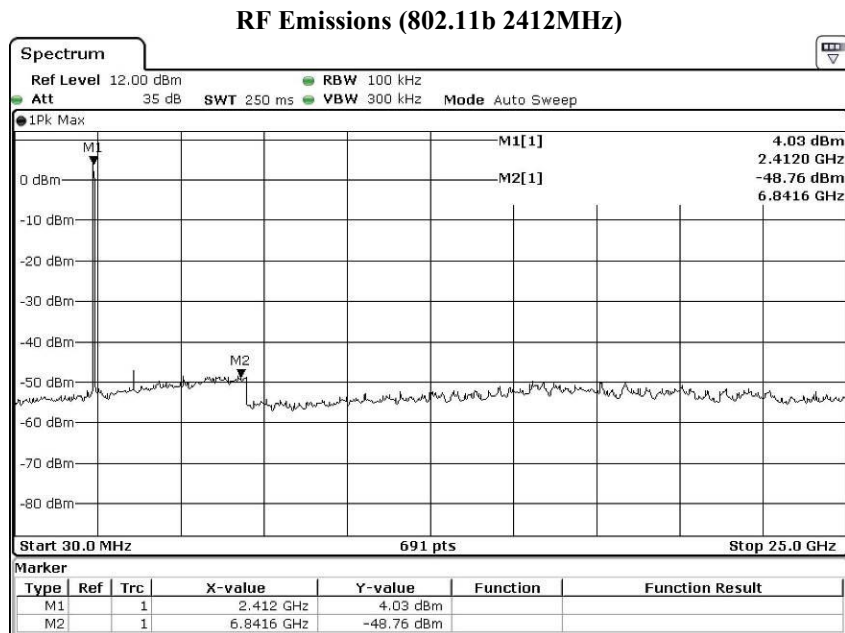
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RF Conducted Emissions Measurement:

Limit :

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required.

Remark: The worst-case measurement results were recorded in the test report
The following plots include cable losses :0.3dB (There is no Attenuator)



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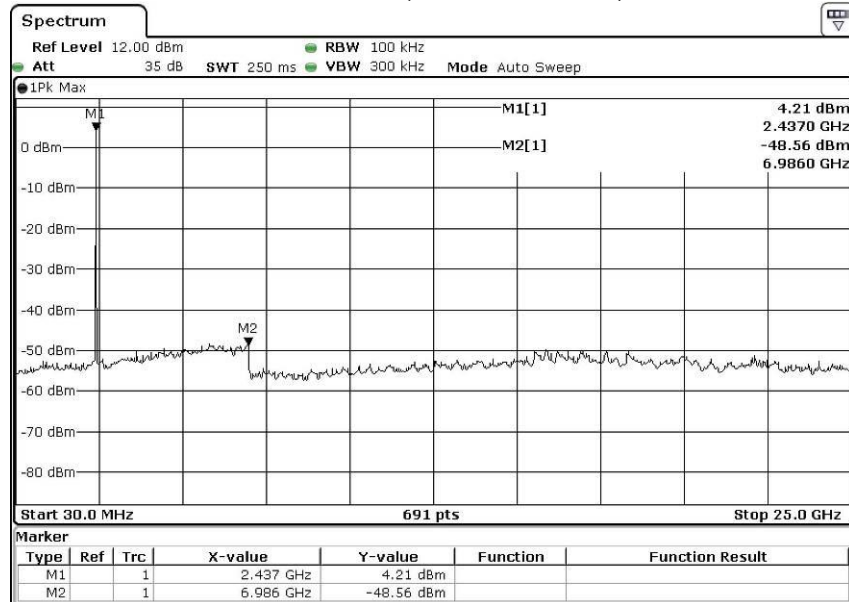


Test Report

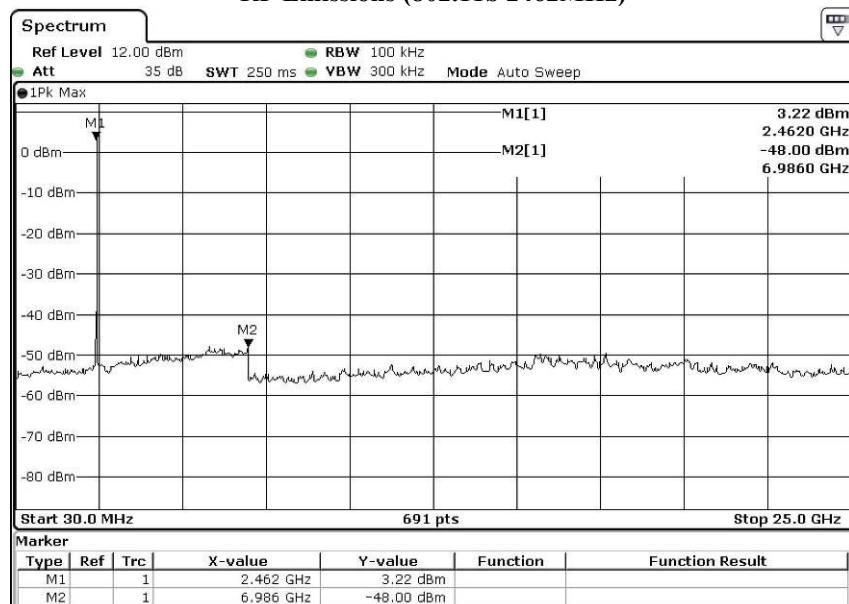
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RF Emissions (802.11b 2437MHz)



RF Emissions (802.11b 2462MHz)



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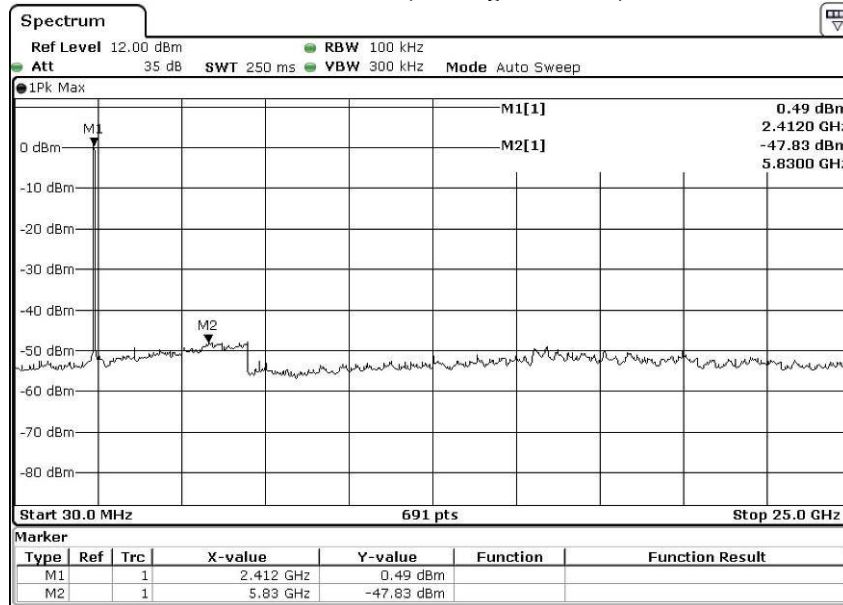


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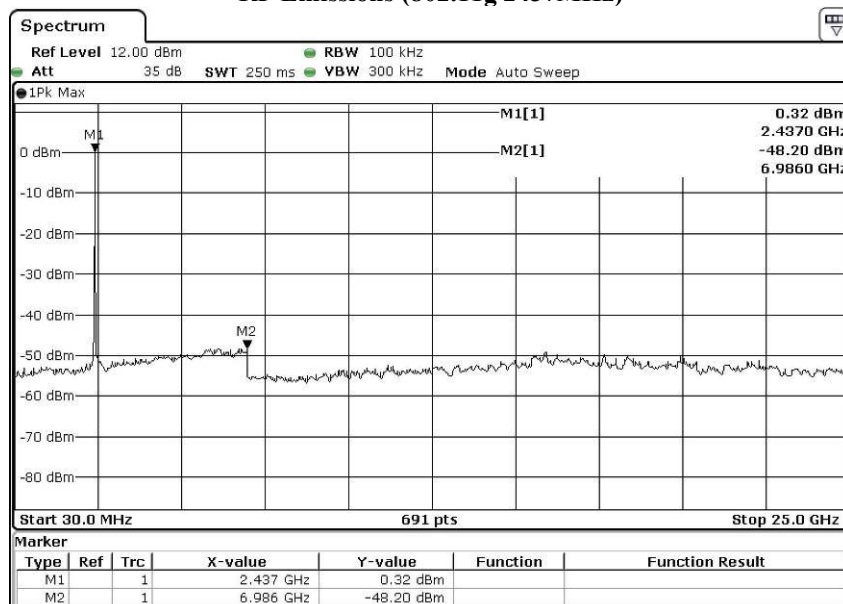
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RF Emissions (802.11g 2412MHz)



RF Emissions (802.11g 2437MHz)



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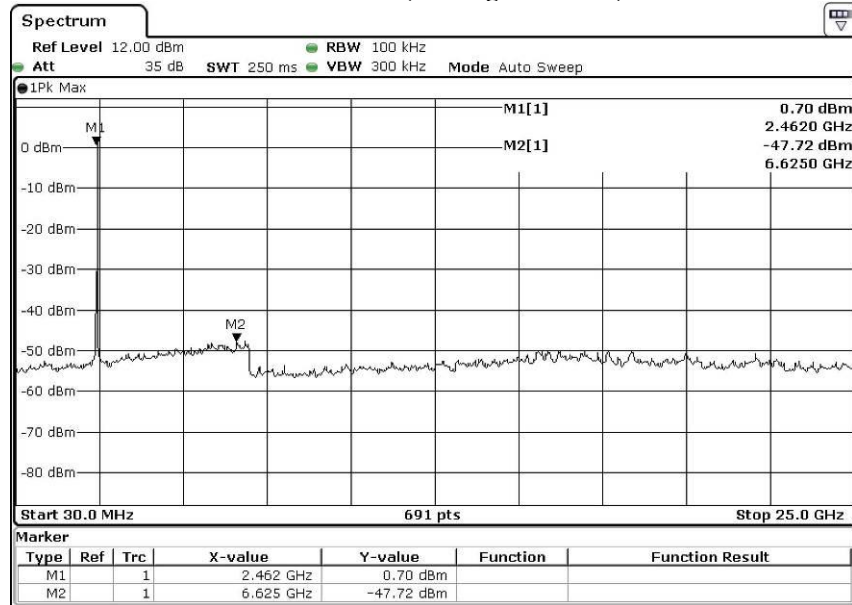


Test Report

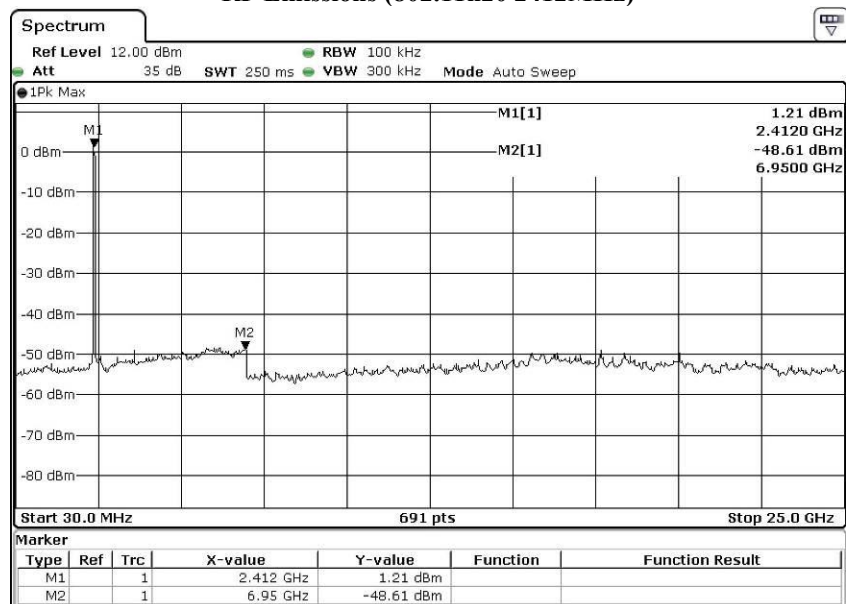
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RF Emissions (802.11g 2462MHz)



RF Emissions (802.11n20 2412MHz)



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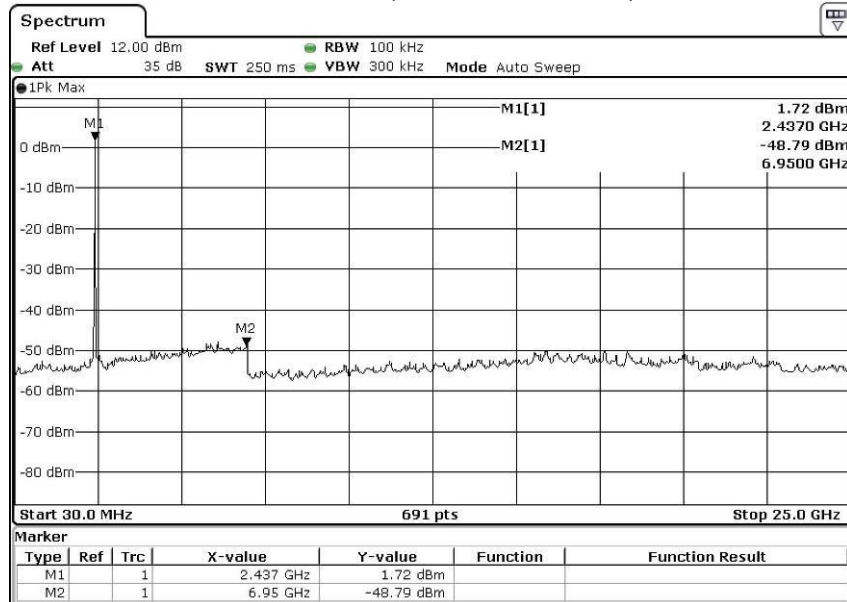


Test Report

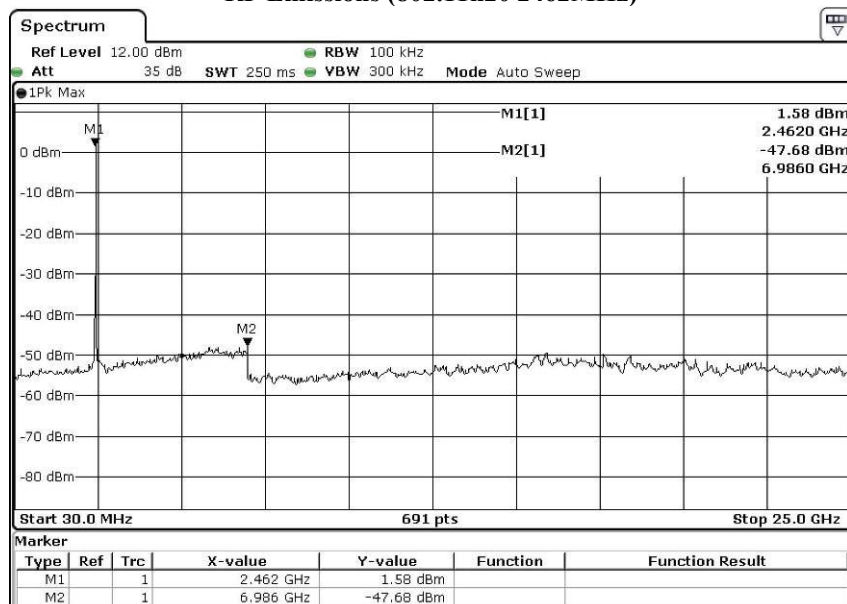
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RF Emissions (802.11n20 2437MHz)



RF Emissions (802.11n20 2462MHz)



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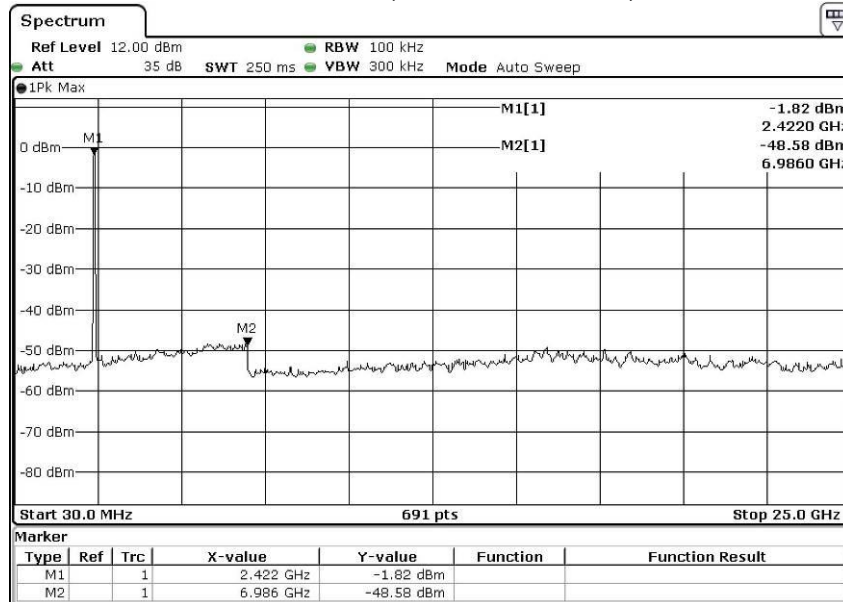


Test Report

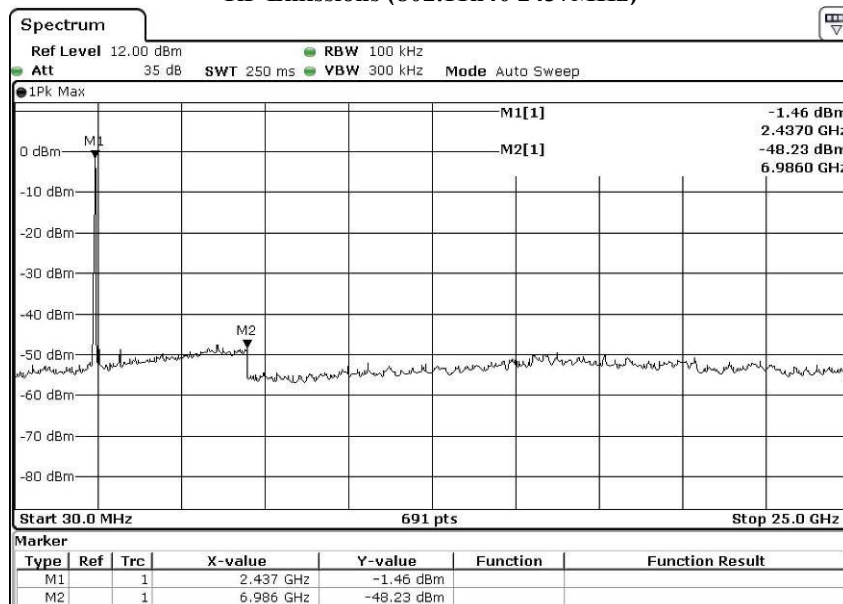
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RF Emissions (802.11n40 2422MHz)



RF Emissions (802.11n40 2437MHz)



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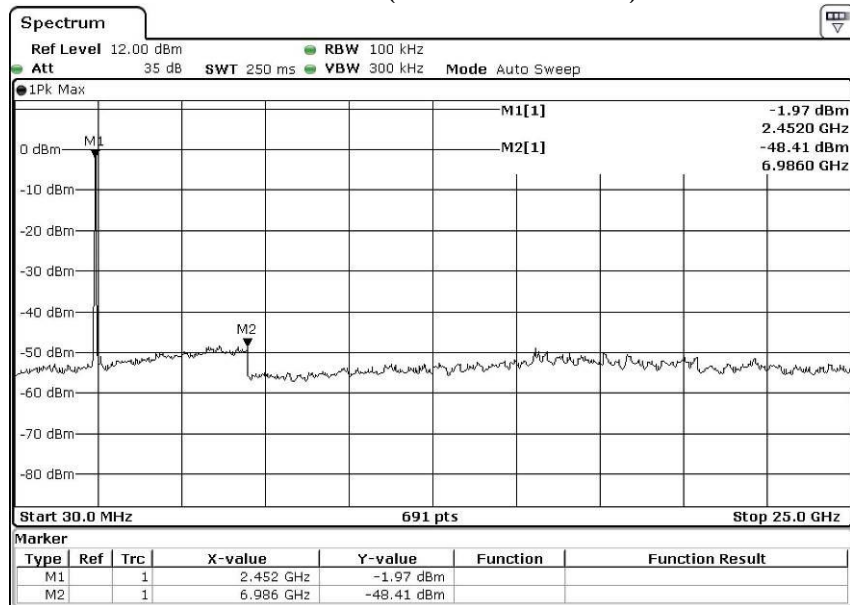


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RF Emissions (802.11n40 2452MHz)



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3.1.7 Antenna Requirement

Ambient Temperature: 25°C

Relative Humidity: 51%

Atmospheric Pressure: 101 kPa

Test Requirements: § 15.203

Test Specification:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Test Results:

This is Integrated antenna. There is no external antenna, the antenna gain = 2 dBi. User is unable to remove or changed the Antenna.

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Appendix A

List of Measurement Equipment

Radiated Emission

| EQP NO. | DESCRIPTION | MANUFACTURER | MODEL NO. | SERIAL NO. | LAST CAL | DUE CAL |
|---------|---|-------------------------|-----------|------------|------------|------------|
| EM215 | MULTIDEVICE CONTROLLER | EMCO | 2090 | 00024676 | N/A | N/A |
| EM217 | ELECTRIC POWERED TURN TABLE | EMCO | 2088 | 00029144 | N/A | N/A |
| EM218 | ANECHOIC CHAMBER | ETS-LINDGREN | FACT-3 | -- | 2024-04-18 | 2029-04-18 |
| EM356 | ANTENNA POSITIONING TOWER | ETS-LINDGREN | 2171B | 00150346 | N/A | N/A |
| EM293 | SPECTRUM ANALYZER | AGILENT TECHNOLOGIES | N9020A | MY50510152 | 2024-11-07 | 2025-11-07 |
| EM363 | SIGNAL ANALYZER(10HZ- 40GHZ) | R & S | FSV40 | 101231 | 2024-01-17 | 2026-01-17 |
| EM299 | BROADBAND HORN ANTENNA | ETS-LINDGREN | 3115 | 00114120 | 2023-01-25 | 2026-01-25 |
| EM300 | PYRAMIDAL STANDARD GAIN HORN ANTENNA | ETS-LINDGREN | 3160-09 | 00130130 | 2023-01-16 | 2026-01-16 |
| EM301 | PYRAMIDAL STANDARD GAIN HORN ANTENNA | ETS-LINDGREN | 3160-10 | 00130988 | 2023-02-15 | 2026-02-15 |
| EM353 | LOOP ANTENNA | ETS_LINDGREN | 6502 | 00206533 | 2022-09-26 | 2025-09-26 |
| EM355 | BICONILOG ANTENNA | ETS-LINDGREN | 3143B | 00094856 | 2022-08-26 | 2025-08-26 |
| EM200 | DUAL CHANNEL POWER METER | R & S | NRVD | 100592 | 2023-08-02 | 2025-08-02 |

Line Conducted

| EQP NO. | DESCRIPTION | MANUFACTURER | MODEL NO. | SERIAL NO. | LAST CAL | DUE CAL |
|---------|--|-------------------------------------|-----------|---------------------|------------|------------|
| EM191 | LISN | R & S | ESH3-Z5 | 0831.5518.52 | 2025-03-20 | 2026-03-20 |
| EM181 | EMI TEST RECEIVER | R & S | ESIB7 | 100072 | 2025-04-24 | 2026-04-24 |
| EM179 | IMPULSE LIMITER | R & S | ESH3-Z2 | 357.8810.52/54 | 2025-03-17 | 2027-03-17 |
| EM154 | SHIELDING ROOM | SIEMENS MATSUSHITA COMPONENTS | N/A | 803-740-057- 99A | 2022-02-06 | 2027-02-06 |
| N/A | MEASUREMENT AND EVALUATION SOFTWARE | ROHDE & SCHWARZ | BSIB-K1 | V1.20 | N/A | N/A |

Remarks:-

CM Corrective Maintenance
N/A Not Applicable
TBD To Be Determined

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Appendix B

Photographs of EUT

View of the product



View of the product



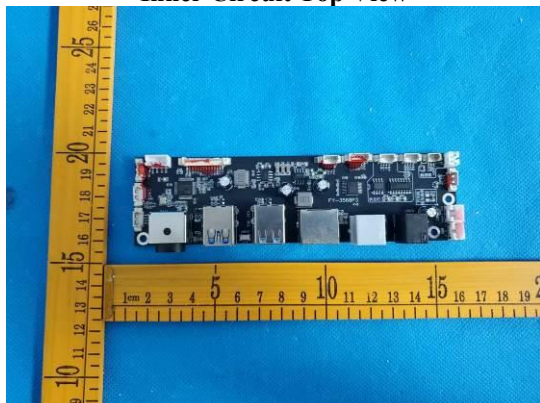
Inner Circuit Top View



Inner Circuit Bottom View



Inner Circuit Top View



Inner Circuit Bottom View



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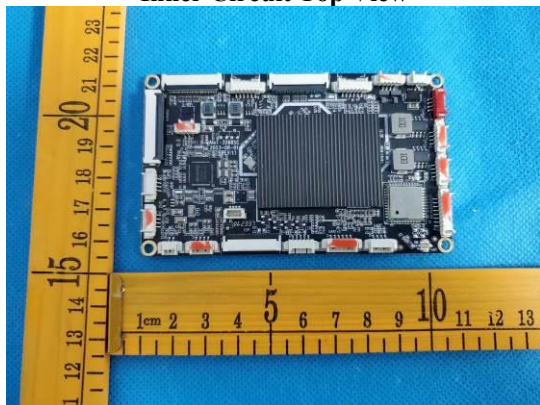
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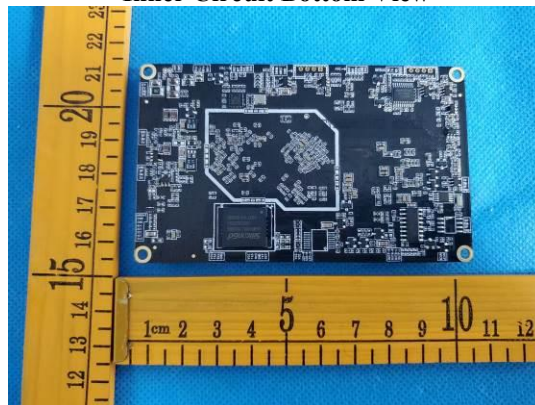
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Photographs of EUT

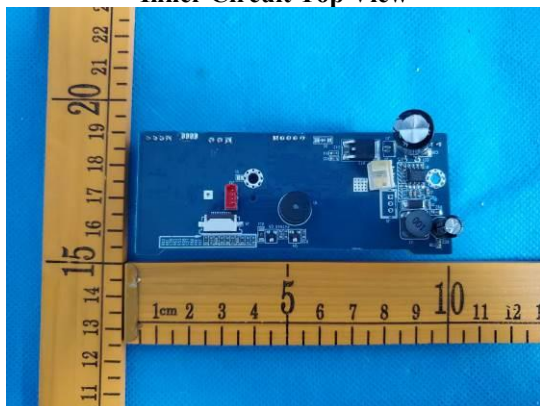
Inner Circuit Top View



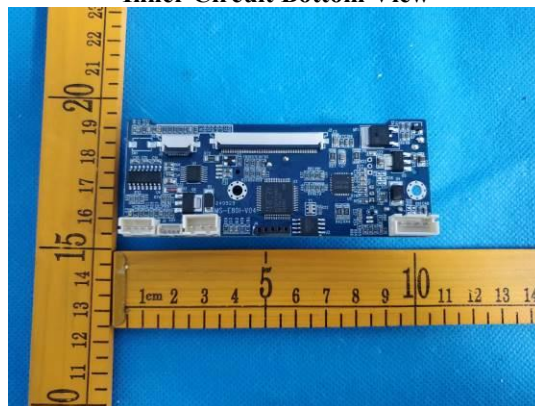
Inner Circuit Bottom View



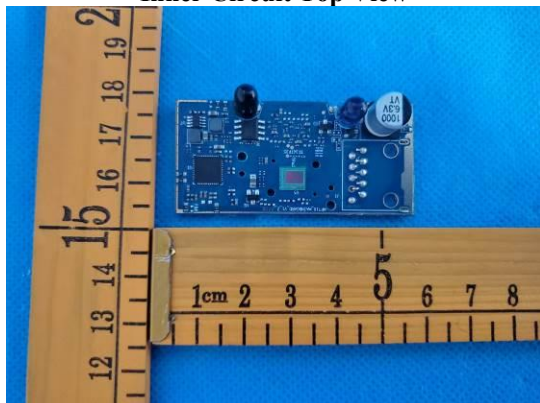
Inner Circuit Top View



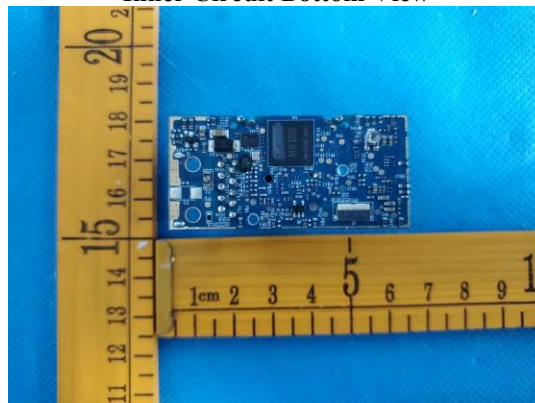
Inner Circuit Bottom View



Inner Circuit Top View



Inner Circuit Bottom View



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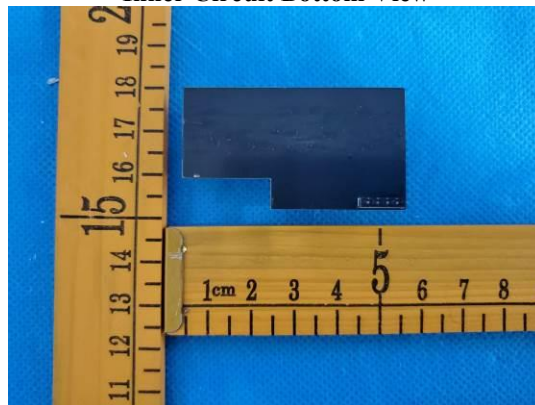
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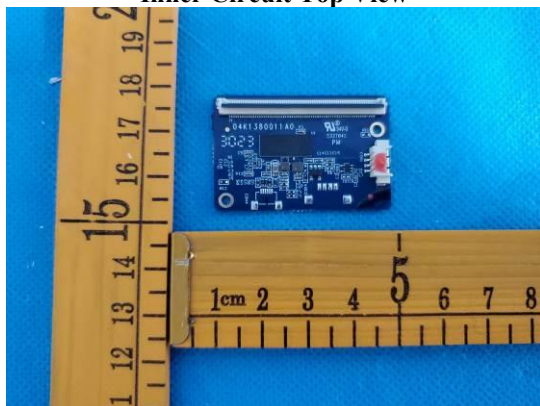
Inner Circuit Top View



Inner Circuit Bottom View



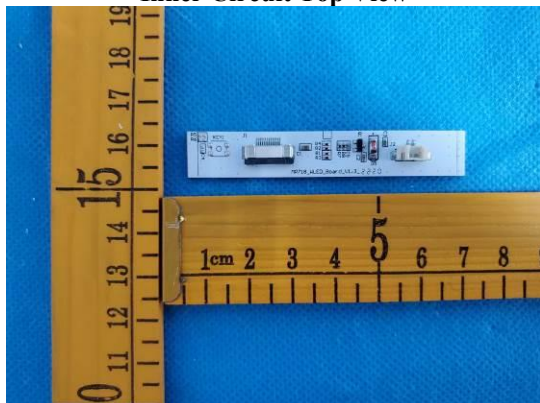
Inner Circuit Top View



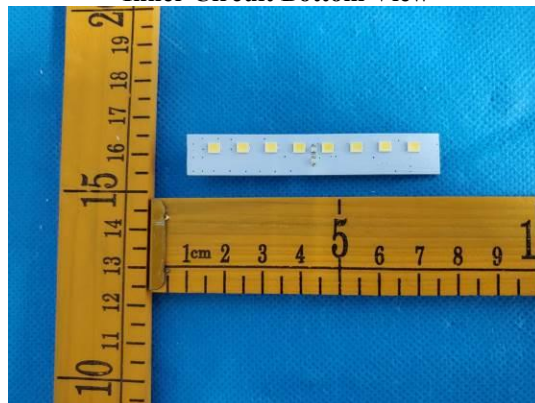
Inner Circuit Bottom View



Inner Circuit Top View



Inner Circuit Bottom View



Test Report

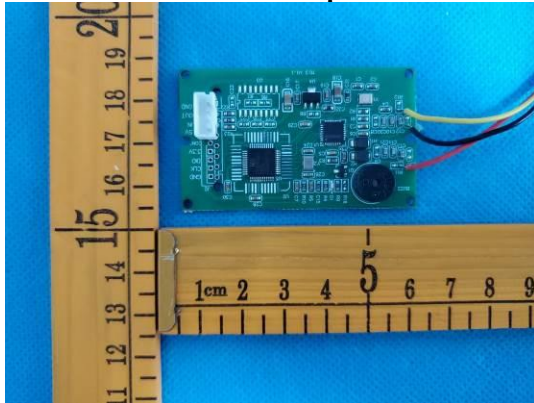
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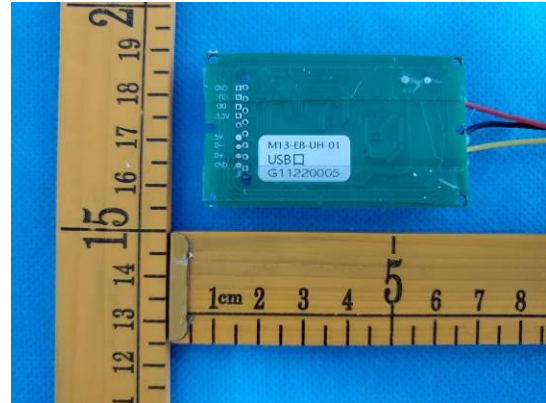
No. : HMD25040006

Photographs of EUT

Inner Circuit Top View



Inner Circuit Bottom View



Inner Circuit Top View



Inner Circuit Bottom View



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Photographs of EUT

Measurement of Radiated Emission Test Set Up (9kHz – 30MHz)



Measurement of Radiated Emission Test Set Up (30MHz – 1000MHz)



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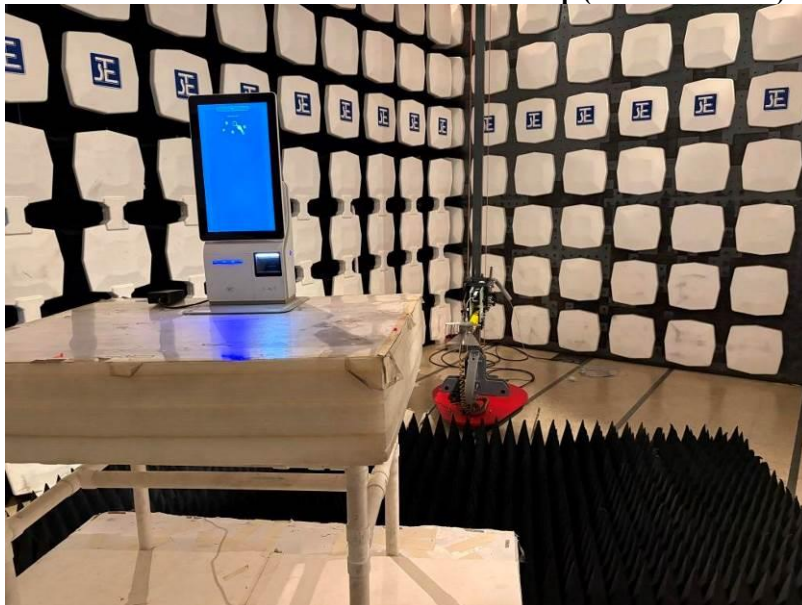
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Photographs of EUT

Measurement of Radiated Emission Test Set Up (above 1000MHz)



Measurement of Conducted Emission Test Set Up



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1. All samples and goods are accepted by The Hong Kong Standards & Testing Centre Limited (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The Company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").
2. Any report issued by the Company as a result of this application for testing service (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to his customer, supplier or other persons directly concerned. Subject to clause 3, the Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall be at liberty to disclose the testing-related documents and/or files anytime to any third-party accreditation and/or recognition bodies for audit or other related purposes. No liabilities whatsoever shall attach to the Company's act of disclosure.
4. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
5. The results in Report apply only to the sample as received and do not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
6. When a statement of conformity to a specification or standard is provided, the ILAC-G8 Guidance document (and/or IEC Guide 115 in the electrotechnical sector) will be adopted as a decision rule for the determination of conformity unless it is inherent in the requested specification or standard, or otherwise specified in the Report.
7. In the event of the improper use the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
8. Sample submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
9. The Company will not be liable for or accept responsibility for any loss or damage howsoever arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
10. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
11. Subject to the variable length of retention time for test data and report stored hereinto as to otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of this test report for a period of three years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after the retention period. Under no circumstances shall we be liable for damages of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.
12. Issuance records of the Report are available on the internet at www.stc.group. Further enquiry of validity or verification of the Reports should be addressed to the Company.