

# Test Report

**Report No.** : MTi251117004-0201E1  
**Date of issue** : 2026-01-08  
**Applicant** : Dongguan Mingjian Mould Co., Ltd.  
**Product** : Wireless Mouse  
**Model(s)** : M31  
**FCC ID** : 2BSYG-M31

**Shenzhen Microtest Co., Ltd.**

# TEST REPORT

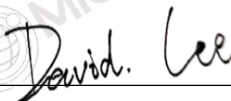
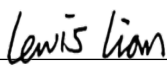
Report No.: MTi251117004-0201E1

## Table of contents

|          |                                                      |           |
|----------|------------------------------------------------------|-----------|
| <b>1</b> | <b>General Description .....</b>                     | <b>4</b>  |
| 1.1      | Description of the EUT .....                         | 4         |
| 1.2      | Description of test modes .....                      | 4         |
| 1.3      | Environmental Conditions .....                       | 6         |
| 1.4      | Description of support units .....                   | 6         |
| 1.5      | Measurement uncertainty .....                        | 6         |
| <b>2</b> | <b>Summary of Test Result .....</b>                  | <b>7</b>  |
| <b>3</b> | <b>Test Facilities and accreditations .....</b>      | <b>8</b>  |
| 3.1      | Test laboratory .....                                | 8         |
| <b>4</b> | <b>List of test equipment .....</b>                  | <b>9</b>  |
| <b>5</b> | <b>Evaluation Results (Evaluation) .....</b>         | <b>11</b> |
| 5.1      | Antenna requirement .....                            | 11        |
| <b>6</b> | <b>Radio Spectrum Matter Test Results (RF) .....</b> | <b>11</b> |
| 6.1      | Conducted Emission at AC power line .....            | 11        |
| 6.2      | Occupied Bandwidth .....                             | 14        |
| 6.3      | Field strength of fundamental .....                  | 17        |
| 6.4      | Band edge emissions (Radiated) .....                 | 21        |
| 6.5      | Emissions in frequency bands (below 1GHz) .....      | 24        |
| 6.6      | Emissions in frequency bands (above 1GHz) .....      | 28        |
|          | <b>Photographs of the test setup .....</b>           | <b>33</b> |
|          | <b>Photographs of the EUT .....</b>                  | <b>34</b> |

# TEST REPORT

Report No.: MTi251117004-0201E1

| Test Result Certification |                                                                                                                     |                                                                                       |
|---------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Applicant                 | Dongguan Mingjian Mould Co., Ltd.                                                                                   |                                                                                       |
| Applicant Address         | Room 103, Building 1, No. 11 Fengping Road, Sanzhong Village, Qingxi Town, Dongguan City, Guangdong Province, China |                                                                                       |
| Manufacturer              | Dongguan Mingjian Mould Co., Ltd.                                                                                   |                                                                                       |
| Manufacturer Address      | Room 103, Building 1, No. 11 Fengping Road, Sanzhong Village, Qingxi Town, Dongguan City, Guangdong Province, China |                                                                                       |
| Factory                   | Dongguan Mingjian Mould Co., Ltd.                                                                                   |                                                                                       |
| Factory Address           | Room 103, Building 1, No. 11 Fengping Road, Sanzhong Village, Qingxi Town, Dongguan City, Guangdong Province, China |                                                                                       |
| Product description       |                                                                                                                     |                                                                                       |
| Product name              | Wireless Mouse                                                                                                      |                                                                                       |
| Trademark                 | N/A                                                                                                                 |                                                                                       |
| Model name                | M31                                                                                                                 |                                                                                       |
| Series Model(s)           | N/A                                                                                                                 |                                                                                       |
| Standards                 | 47 CFR Part 15.249                                                                                                  |                                                                                       |
| Test Method               | ANSI C63.10-2020                                                                                                    |                                                                                       |
| Testing Information       |                                                                                                                     |                                                                                       |
| Date of test              | 2025-11-27 to 2026-01-07                                                                                            |                                                                                       |
| Test result               | Pass                                                                                                                |                                                                                       |
| Prepared by:              | Maleah Deng                                                                                                         |  |
| Reviewed by:              | David Lee                                                                                                           |  |
| Approved by:              | Lewis Lian                                                                                                          |  |

# TEST REPORT

Report No.: MTi251117004-0201E1

## 1 General Description

### 1.1 Description of the EUT

|                            |                                               |
|----------------------------|-----------------------------------------------|
| Product name:              | Wireless Mouse                                |
| Model name:                | M31                                           |
| Series Model(s):           | N/A                                           |
| Model difference:          | N/A                                           |
| Electrical rating:         | Input: DC 5V, 5mA<br>Battery: DC 3.7V, 500mAh |
| Accessories:               | N/A                                           |
| Hardware version:          | V4.0                                          |
| Software version:          | 86BC0D                                        |
| Test sample(s) number:     | MTi251117004-02-R001                          |
| <b>RF specification</b>    |                                               |
| Operating frequency range: | 2403-2480MHz                                  |
| Channel number:            | 16                                            |
| Modulation type:           | GFSK                                          |
| Antenna(s) type:           | PCB Antenna                                   |
| Antenna(s) gain:           | -1.2dBi                                       |

### 1.2 Description of test modes

| No.   | Emission test modes |
|-------|---------------------|
| Mode1 | TX-GFSK             |

#### 1.2.1 Operation channel list

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 1       | 2403            | 5       | 2407            | 9       | 2414            | 13      | 2419            |
| 2       | 2426            | 6       | 2422            | 10      | 2436            | 14      | 2430            |
| 3       | 2441            | 7       | 2445            | 11      | 2459            | 15      | 2453            |
| 4       | 2463            | 8       | 2466            | 12      | 2473            | 16      | 2480            |

#### Test Channel List

| Lowest Channel (LCH)<br>(MHz) | Middle Channel (MCH)<br>(MHz) | Highest Channel (HCH)<br>(MHz) |
|-------------------------------|-------------------------------|--------------------------------|
| 2403                          | 2441                          | 2480                           |

Note: The test software provided by manufacturer is used to control EUT for working in engineering mode, that enables selectable channel, and capable of continuous transmitting mode.

## TEST REPORT

Report No.: MTi251117004-0201E1

**Test Software:**

For power setting, refer to below table.

|                |         |         |         |
|----------------|---------|---------|---------|
| Test Software: | /       |         |         |
| Mode           | 2403MHz | 2441MHz | 2480MHz |
| GFSK           | Default | Default | Default |

## TEST REPORT

Report No.: MTi251117004-0201E1

### 1.3 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

|                       |                  |
|-----------------------|------------------|
| Temperature:          | 15°C ~ 35°C      |
| Humidity:             | 20% RH ~ 75% RH  |
| Atmospheric pressure: | 98 kPa ~ 101 kPa |

### 1.4 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

#### Support equipment list

| Description               | Model        | Serial No.     | Manufacturer |
|---------------------------|--------------|----------------|--------------|
| USB-A HUAWEI CHARGE (10W) | HW-050200C02 | K95212KA103561 | HUAWEI       |

#### Support cable list

| Description | Length (m) | From | To |
|-------------|------------|------|----|
| /           | /          | /    | /  |

### 1.5 Measurement uncertainty

| Measurement                              | Uncertainty |
|------------------------------------------|-------------|
| Conducted emissions (AMN 150kHz~30MHz)   | ±3.1dB      |
| Occupied channel bandwidth               | ±3 %        |
| Radiated spurious emissions (above 1GHz) | ±5.3dB      |
| Radiated spurious emissions (9kHz~30MHz) | ±4.3dB      |
| Radiated spurious emissions (30MHz~1GHz) | ±4.7dB      |
| Temperature                              | ±1 °C       |
| Humidity                                 | ± 5 %       |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## TEST REPORT

Report No.: MTi251117004-0201E1

### 2 Summary of Test Result

| No. | Item                                      | Standard           | Requirement                                              | Result |
|-----|-------------------------------------------|--------------------|----------------------------------------------------------|--------|
| 1   | Antenna requirement                       | 47 CFR Part 15.249 | 47 CFR Part 15.203                                       | Pass   |
| 2   | Conducted Emission at AC power line       | 47 CFR Part 15.249 | 47 CFR 15.207(a)                                         | Pass   |
| 3   | Occupied Bandwidth                        | 47 CFR Part 15.249 | 47 CFR 15.215(c)                                         | Pass   |
| 4   | Field strength of fundamental             | 47 CFR Part 15.249 | 47 CFR 15.249(a)<br>47 CFR 15.249(b)(1)                  | Pass   |
| 5   | Band edge emissions (Radiated)            | 47 CFR Part 15.249 | 47 CFR 15.249(d)                                         | Pass   |
| 6   | Emissions in frequency bands (below 1GHz) | 47 CFR Part 15.249 | 47 CFR 15.249(a)<br>47 CFR 15.249(d)<br>47 CFR 15.249(e) | Pass   |
| 7   | Emissions in frequency bands (above 1GHz) | 47 CFR Part 15.249 | 47 CFR 15.249(a)<br>47 CFR 15.249(d)<br>47 CFR 15.249(e) | Pass   |

## TEST REPORT

Report No.: MTi251117004-0201E1

### 3 Test Facilities and accreditations

#### 3.1 Test laboratory

|                        |                                                                                                                                      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Test laboratory:       | Shenzhen Microtest Co., Ltd.                                                                                                         |
| Test site location:    | 101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |
| Telephone:             | (86-755)88850135                                                                                                                     |
| Fax:                   | (86-755)88850136                                                                                                                     |
| CNAS Registration No.: | CNAS L5868                                                                                                                           |
| FCC Registration No.:  | 448573                                                                                                                               |
| IC Registration No.:   | 21760                                                                                                                                |
| CABID:                 | CN0093                                                                                                                               |

# TEST REPORT

Report No.: MTi251117004-0201E1

## 4 List of test equipment

| No.                                                                                                    | Equipment                            | Manufacturer    | Model                             | Serial No. | Cal. date  | Cal. Due   |
|--------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------|-----------------------------------|------------|------------|------------|
| Conducted Emission at AC power line                                                                    |                                      |                 |                                   |            |            |            |
| 1                                                                                                      | EMI Test Receiver                    | Rohde&schwarz   | ESCI3                             | 101368     | 2025-03-14 | 2026-03-13 |
| 2                                                                                                      | Artificial mains network             | Schwarzbeck     | NSLK 8127                         | 183        | 2025-03-18 | 2026-03-17 |
| 3                                                                                                      | Artificial Mains Network             | Rohde & Schwarz | ESH2-Z5                           | 100263     | 2025-03-18 | 2026-03-17 |
| 4                                                                                                      | EMI Measurement Software             | Farad           | EZ-EMC Ver.EMEC-3A1               | /          | /          | /          |
| Occupied Bandwidth                                                                                     |                                      |                 |                                   |            |            |            |
| 1                                                                                                      | Wideband Radio Communication Tester  | Rohde&schwarz   | CMW500                            | 149155     | 2025-03-18 | 2026-03-17 |
| 2                                                                                                      | ESG Series Analog Ssignal Generator  | Agilent         | E4421B                            | GB40051240 | 2025-03-14 | 2026-03-13 |
| 3                                                                                                      | PXA Signal Analyzer                  | Agilent         | N9030A                            | MY51350296 | 2025-03-14 | 2026-03-13 |
| 4                                                                                                      | Synthesized Sweeper                  | Agilent         | 83752A                            | 3610A01957 | 2025-03-14 | 2026-03-13 |
| 5                                                                                                      | MXA Signal Analyzer                  | Agilent         | N9020A                            | MY50143483 | 2025-03-14 | 2026-03-13 |
| 6                                                                                                      | RF Control Unit                      | Tonscend        | JS0806-1                          | 19D8060152 | 2025-03-18 | 2026-03-17 |
| 7                                                                                                      | Band Reject Filter Group             | Tonscend        | JS0806-F                          | 19D8060160 | 2025-03-14 | 2026-03-13 |
| 8                                                                                                      | ESG Vector Signal Generator          | Agilent         | N5182A                            | MY50143762 | 2025-03-14 | 2026-03-13 |
| 9                                                                                                      | DC Power Supply                      | Agilent         | E3632A                            | MY40027695 | 2025-03-18 | 2026-03-17 |
| 10                                                                                                     | RF Test System                       | Tonscend        | JS1120-3 Test System Ver. V3.5.39 | /          | /          | /          |
| Field strength of fundamental Band edge emissions (Radiated) Emissions in frequency bands (above 1GHz) |                                      |                 |                                   |            |            |            |
| 1                                                                                                      | EMI Test Receiver                    | Rohde&schwarz   | ESCI7                             | 101166     | 2025-03-14 | 2026-03-13 |
| 2                                                                                                      | Double Ridged Broadband Horn Antenna | schwarabeck     | BBHA 9120 D                       | 2278       | 2025-05-27 | 2027-05-26 |
| 3                                                                                                      | Amplifier                            | Agilent         | 8449B                             | 3008A01120 | 2025-03-18 | 2026-03-17 |
| 4                                                                                                      | MXA signal analyzer                  | Agilent         | N9020A                            | MY54440859 | 2025-03-14 | 2026-03-13 |
| 5                                                                                                      | PXA Signal Analyzer                  | Agilent         | N9030A                            | MY51350296 | 2025-03-14 | 2026-03-13 |
| 6                                                                                                      | Horn antenna                         | Schwarzbeck     | BBHA 9170                         | 00987      | 2025-05-27 | 2027-05-26 |

## TEST REPORT

Report No.: MTi251117004-0201E1

| No.                                       | Equipment                      | Manufacturer    | Model                      | Serial No. | Cal. date  | Cal. Due   |
|-------------------------------------------|--------------------------------|-----------------|----------------------------|------------|------------|------------|
| 7                                         | Pre-amplifier                  | Space-Dtronics  | EWLAN18<br>40G             | 210405001  | 2025-03-19 | 2026-03-18 |
| 8                                         | EMI Measurement<br>Software    | Farad           | EZ-EMC<br>Ver.EMEC-<br>3A1 | /          | /          | /          |
| Emissions in frequency bands (below 1GHz) |                                |                 |                            |            |            |            |
| 1                                         | EMI Test Receiver              | Rohde&schwarz   | ESC17                      | 101166     | 2025-03-14 | 2026-03-13 |
| 2                                         | TRILOG<br>Broadband<br>Antenna | schwarabeck     | VULB<br>9163               | 9163-1338  | 2025-05-23 | 2027-05-22 |
| 3                                         | Active Loop<br>Antenna         | Schwarzbeck     | FMZB<br>1519 B             | 00066      | 2024-03-23 | 2026-03-22 |
| 4                                         | Amplifier                      | Hewlett-Packard | 8447F                      | 3113A06184 | 2025-03-18 | 2026-03-17 |
| 5                                         | EMI Measurement<br>Software    | Farad           | EZ-EMC<br>Ver.EMEC-<br>3A1 | /          | /          | /          |

# TEST REPORT

Report No.: MTi251117004-0201E1

## 5 Evaluation Results (Evaluation)

### 5.1 Antenna requirement

|                   |                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | Refer to 47 CFR Part 15.203, 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. |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 6 Radio Spectrum Matter Test Results (RF)

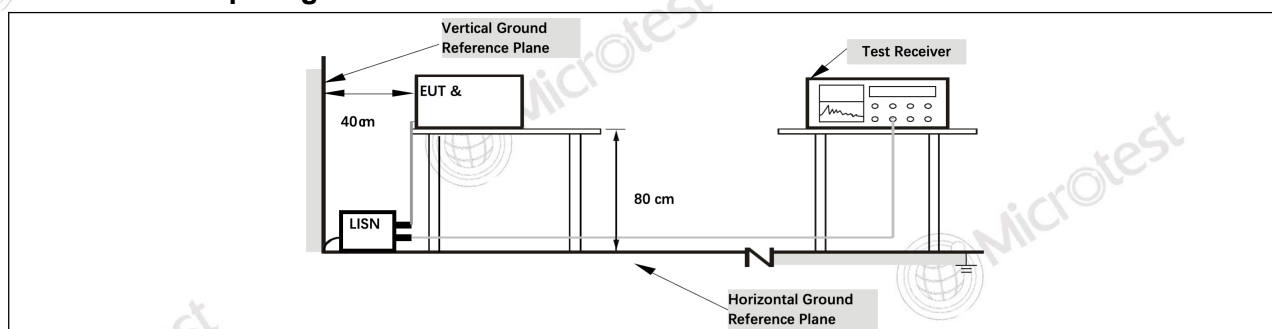
### 6.1 Conducted Emission at AC power line

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |           |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------|
| Test Requirement: | Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN). |                              |           |
| Test Limit:       | Frequency of emission (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                          | Conducted limit (dB $\mu$ V) |           |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Quasi-peak                   | Average   |
|                   | 0.15-0.5                                                                                                                                                                                                                                                                                                                                                                                                                                             | 66 to 56*                    | 56 to 46* |
|                   | 0.5-5                                                                                                                                                                                                                                                                                                                                                                                                                                                | 56                           | 46        |
|                   | 5-30                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 60                           | 50        |
|                   | *Decreases with the logarithm of the frequency.                                                                                                                                                                                                                                                                                                                                                                                                      |                              |           |
| Test Method:      | ANSI C63.10-2020 section 6.2                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |           |
| Procedure:        | Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices                                                                                                                                                                                                                                                                                                                   |                              |           |

#### 6.1.1 E.U.T. Operation:

|                        |       |                       |         |
|------------------------|-------|-----------------------|---------|
| Operating Environment: |       |                       |         |
| Temperature:           | 23 °C | Humidity:             | 29 %    |
| Pre test mode:         |       | Atmospheric Pressure: | 100 kPa |
| Mode1                  |       |                       |         |
| Final test mode:       |       | Mode1                 |         |

#### 6.1.2 Test Setup Diagram:

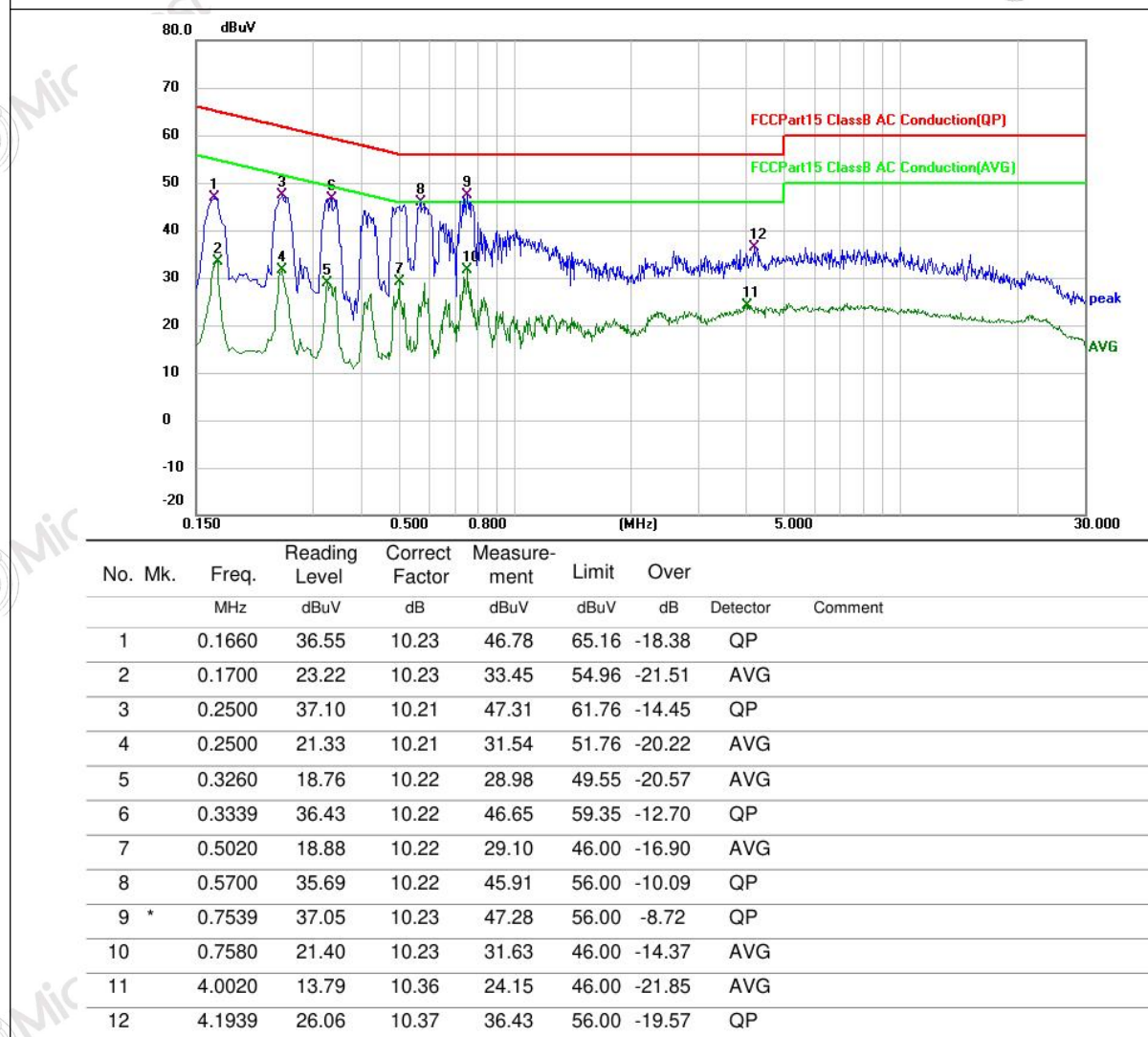


# TEST REPORT

Report No.: MTi251117004-0201E1

## 6.1.3 Test Data:

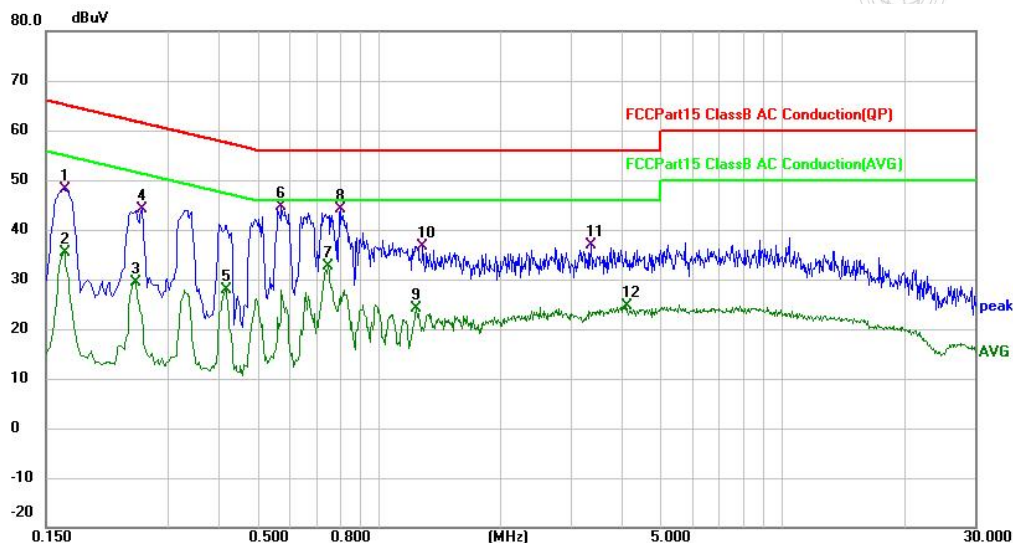
Mode1 / Line: Line / CH: L



# TEST REPORT

Report No.: MTi251117004-0201E1

Mode1 / Line: Neutral / CH: L



| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|---------|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1       | 0.1660       | 38.05                    | 10.17                   | 48.22                    | 65.16         | -16.94     | QP       |         |
| 2       | 0.1660       | 25.22                    | 10.17                   | 35.39                    | 55.16         | -19.77     | AVG      |         |
| 3       | 0.2500       | 19.21                    | 10.16                   | 29.37                    | 51.76         | -22.39     | AVG      |         |
| 4       | 0.2580       | 33.88                    | 10.16                   | 44.04                    | 61.50         | -17.46     | QP       |         |
| 5       | 0.4180       | 17.68                    | 10.16                   | 27.84                    | 47.49         | -19.65     | AVG      |         |
| 6 *     | 0.5740       | 34.43                    | 10.16                   | 44.59                    | 56.00         | -11.41     | QP       |         |
| 7       | 0.7500       | 22.50                    | 10.17                   | 32.67                    | 46.00         | -13.33     | AVG      |         |
| 8       | 0.8020       | 33.99                    | 10.17                   | 44.16                    | 56.00         | -11.84     | QP       |         |
| 9       | 1.2420       | 14.00                    | 10.18                   | 24.18                    | 46.00         | -21.82     | AVG      |         |
| 10      | 1.2860       | 26.54                    | 10.19                   | 36.73                    | 56.00         | -19.27     | QP       |         |
| 11      | 3.3700       | 26.75                    | 10.25                   | 37.00                    | 56.00         | -19.00     | QP       |         |
| 12      | 4.1220       | 14.25                    | 10.28                   | 24.53                    | 46.00         | -21.47     | AVG      |         |

# TEST REPORT

Report No.: MTi251117004-0201E1

## 6.2 Occupied Bandwidth

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR 15.215(c)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test Limit:       | Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Test Method:      | ANSI C63.10-2020, section 6.9.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Procedure:        | <p>a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.</p> <p>b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.</p> <p>c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than <math>[10 \log (OBW/RBW)]</math> below the reference level. Specific guidance is given in 4.1.5.2.</p> <p>d) Steps a) through c) might require iteration to adjust within the specified tolerances.</p> <p>e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.</p> <p>f) Set detection mode to peak and trace mode to max hold.</p> <p>g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).</p> <p>h) Determine the “-xx dB down amplitude” using <math>[(\text{reference value}) - xx]</math>. Alternatively, this calculation may be made by using the marker-delta function of the instrument.</p> <p>i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).</p> <p>j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.</p> <p>k) The occupied bandwidth shall be reported by providing plot(s) of the</p> |

# TEST REPORT

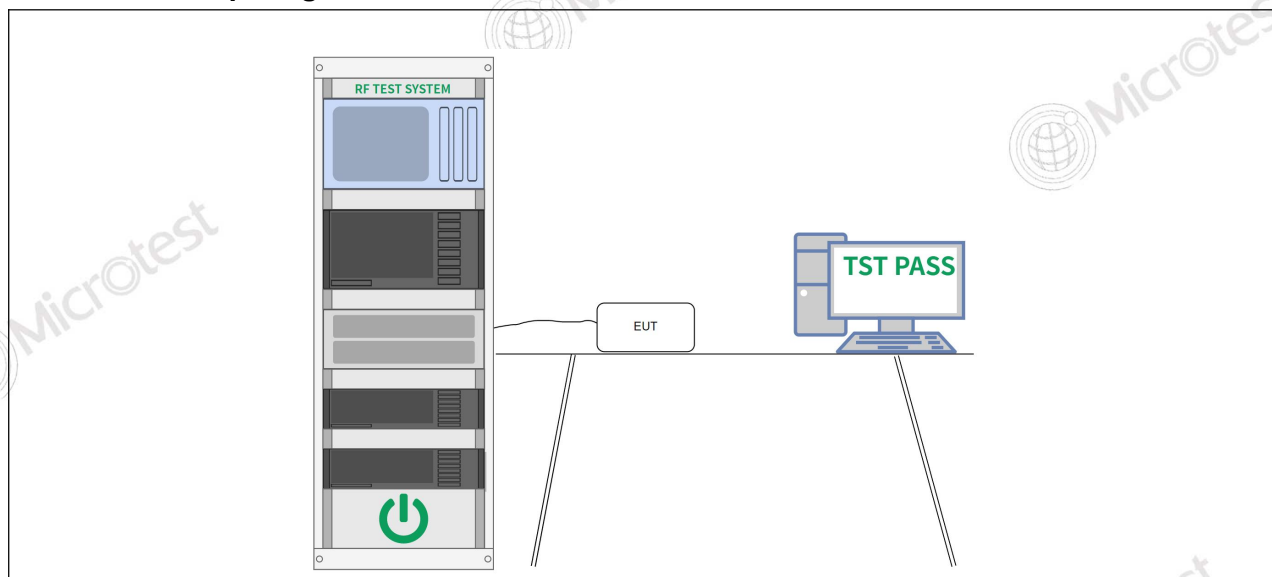
Report No.: MTi251117004-0201E1

|  |                                                                                                                                                                 |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s). |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 6.2.1 E.U.T. Operation:

|                        |         |           |      |                       |         |
|------------------------|---------|-----------|------|-----------------------|---------|
| Operating Environment: |         |           |      |                       |         |
| Temperature:           | 24.2 °C | Humidity: | 31 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:         | Mode1   |           |      |                       |         |
| Final test mode:       | Mode1   |           |      |                       |         |

## 6.2.2 Test Setup Diagram:



## 6.2.3 Test Data:

| Test Mode | Antenna | Frequency [MHz] | 99% OBW [MHz] | 20db BW [MHz] |
|-----------|---------|-----------------|---------------|---------------|
| GFSK      | Ant1    | 2403            | 2.1097        | 2.171         |
|           |         | 2441            | 2.0956        | 2.168         |
|           |         | 2479            | 2.0901        | 2.173         |

# TEST REPORT

Report No.: MTi251117004-0201E1

## Test Graphs



# TEST REPORT

Report No.: MTi251117004-0201E1

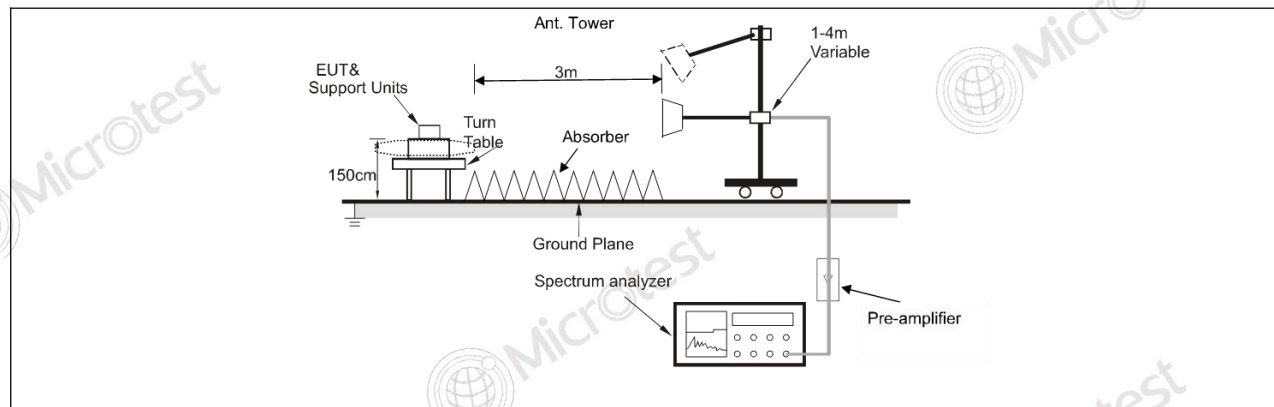
## 6.3 Field strength of fundamental

|                   |                                                                                                                                                                                        |                                                  |                                                |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------|
| Test Requirement: | Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following: |                                                  |                                                |
|                   | Fundamental frequency                                                                                                                                                                  | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) |
|                   | 902-928 MHz                                                                                                                                                                            | 50                                               | 500                                            |
|                   | 2400-2483.5 MHz                                                                                                                                                                        | 50                                               | 500                                            |
|                   | 5725-5875 MHz                                                                                                                                                                          | 50                                               | 500                                            |
|                   | 24.0-24.25 GHz                                                                                                                                                                         | 250                                              | 2500                                           |
|                   | The field strength of emissions in this band shall not exceed 2500 millivolts/meter.                                                                                                   |                                                  |                                                |
| Test Method:      | ANSI C63.10-2020 section 6.6                                                                                                                                                           |                                                  |                                                |
| Procedure:        | ANSI C63.10-2020 section 6.6                                                                                                                                                           |                                                  |                                                |

### 6.3.1 E.U.T. Operation:

|                        |         |           |      |                       |         |
|------------------------|---------|-----------|------|-----------------------|---------|
| Operating Environment: |         |           |      |                       |         |
| Temperature:           | 23.8 °C | Humidity: | 55 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:         | Mode1   |           |      |                       |         |
| Final test mode:       | Mode1   |           |      |                       |         |

### 6.3.2 Test Setup Diagram:



# TEST REPORT

Report No.: MTi251117004-0201E1

## 6.3.3 Test Data:

Mode1 / Polarization: Horizontal / CH: L

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 2403.000 | 94.40         | -4.30          | 90.10       | 114.00 | -23.90 | peak     |
| 2   | *   | 2403.000 | 86.75         | -4.30          | 82.45       | 94.00  | -11.55 | AVG      |

Mode1 / Polarization: Vertical / CH: L

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 2403.000 | 75.86         | -4.30          | 71.56       | 114.00 | -42.44 | peak     |
| 2   | *   | 2403.000 | 68.55         | -4.30          | 64.25       | 94.00  | -29.75 | AVG      |

# TEST REPORT

Report No.: MTi251117004-0201E1

Mode1 / Polarization: Horizontal / CH: M

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 2441.000 | 93.47         | -4.35          | 89.12       | 114.00 | -24.88 | peak     |
| 2   | *   | 2441.000 | 87.49         | -4.35          | 83.14       | 94.00  | -10.86 | AVG      |

Mode1 / Polarization: Vertical / CH: M

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 2441.000 | 78.18         | -4.35          | 73.83       | 114.00 | -40.17 | peak     |
| 2   | *   | 2441.000 | 72.01         | -4.35          | 67.66       | 94.00  | -26.34 | AVG      |

# TEST REPORT

Report No.: MTi251117004-0201E1

Mode1 / Polarization: Horizontal / CH: H

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 2480.000 | 94.31         | -4.24          | 90.07       | 114.00 | -23.93 | peak     |
| 2   | *   | 2480.000 | 88.29         | -4.24          | 84.05       | 94.00  | -9.95  | AVG      |

Mode1 / Polarization: Vertical / CH: H

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 2480.000 | 77.39         | -4.24          | 73.15       | 114.00 | -40.85 | peak     |
| 2   | *   | 2480.000 | 69.12         | -4.24          | 64.88       | 94.00  | -29.12 | AVG      |

# TEST REPORT

Report No.: MTi251117004-0201E1

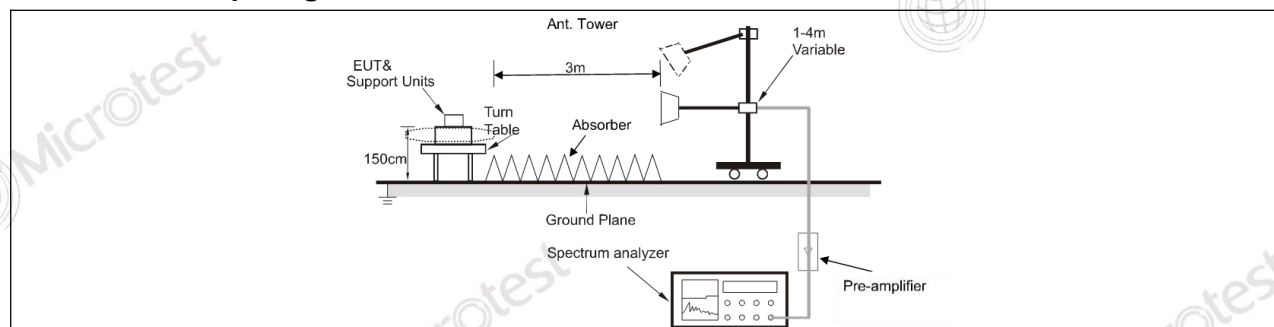
## 6.4 Band edge emissions (Radiated)

| Test Requirement: | Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                               |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------|-----------------------------------|-------------------------------|-------------|-------------|-----|-------------|--------------|----|------------|----|----|-------|--------|---|--------|--------|---|---------|--------|---|-----------|-----|---|
| Test Limit:       | Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation. <table border="1"> <thead> <tr> <th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr> </thead> <tbody> <tr> <td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr> <tr> <td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr> <tr> <td>1.705-30.0</td><td>30</td><td>30</td></tr> <tr> <td>30-88</td><td>100 **</td><td>3</td></tr> <tr> <td>88-216</td><td>150 **</td><td>3</td></tr> <tr> <td>216-960</td><td>200 **</td><td>3</td></tr> <tr> <td>Above 960</td><td>500</td><td>3</td></tr> </tbody> </table> <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> |                               | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) | 0.009-0.490 | 2400/F(kHz) | 300 | 0.490-1.705 | 24000/F(kHz) | 30 | 1.705-30.0 | 30 | 30 | 30-88 | 100 ** | 3 | 88-216 | 150 ** | 3 | 216-960 | 200 ** | 3 | Above 960 | 500 | 3 |
| Frequency (MHz)   | Field strength (microvolts/meter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Measurement distance (meters) |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 0.009-0.490       | 2400/F(kHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 300                           |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 0.490-1.705       | 24000/F(kHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 30                            |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 1.705-30.0        | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 30                            |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 30-88             | 100 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                             |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 88-216            | 150 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                             |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 216-960           | 200 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                             |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Above 960         | 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3                             |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Test Method:      | ANSI C63.10-2020 section 6.6.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                               |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Procedure:        | ANSI C63.10-2020 section 6.6.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                               |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |

### 6.4.1 E.U.T. Operation:

|                                                                                                                      |         |           |      |                       |         |
|----------------------------------------------------------------------------------------------------------------------|---------|-----------|------|-----------------------|---------|
| Operating Environment:                                                                                               |         |           |      |                       |         |
| Temperature:                                                                                                         | 23.8 °C | Humidity: | 55 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:                                                                                                       | Mode1   |           |      |                       |         |
| Final test mode:                                                                                                     | Mode1   |           |      |                       |         |
| Note:<br>The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported. |         |           |      |                       |         |

### 6.4.2 Test Setup Diagram:



# TEST REPORT

Report No.: MTi251117004-0201E1

## 6.4.3 Test Data:

Mode1 / Polarization: Horizontal / CH: L

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 2310.000 | 47.96         | -4.50          | 43.46       | 74.00  | -30.54 | peak     |
| 2   |     | 2310.000 | 37.90         | -4.50          | 33.40       | 54.00  | -20.60 | AVG      |
| 3   |     | 2390.000 | 47.65         | -4.31          | 43.34       | 74.00  | -30.66 | peak     |
| 4   |     | 2390.000 | 37.90         | -4.31          | 33.59       | 54.00  | -20.41 | AVG      |
| 5   |     | 2400.000 | 58.73         | -4.29          | 54.44       | 74.00  | -19.56 | peak     |
| 6   | *   | 2400.000 | 43.26         | -4.29          | 38.97       | 54.00  | -15.03 | AVG      |

Mode1 / Polarization: Vertical / CH: L

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 2310.000 | 47.33         | -4.50          | 42.83       | 74.00  | -31.17 | peak     |
| 2   |     | 2310.000 | 37.90         | -4.50          | 33.40       | 54.00  | -20.60 | AVG      |
| 3   |     | 2390.000 | 47.41         | -4.31          | 43.10       | 74.00  | -30.90 | peak     |
| 4   |     | 2390.000 | 37.93         | -4.31          | 33.62       | 54.00  | -20.38 | AVG      |
| 5   |     | 2400.000 | 47.73         | -4.29          | 43.44       | 74.00  | -30.56 | peak     |
| 6   | *   | 2400.000 | 38.00         | -4.29          | 33.71       | 54.00  | -20.29 | AVG      |

# TEST REPORT

Report No.: MTi251117004-0201E1

Mode1 / Polarization: Horizontal / CH: H

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 2483.500 | 48.60         | -4.23          | 44.37       | 74.00  | -29.63 | peak     |
| 2   |     | 2483.500 | 37.91         | -4.23          | 33.68       | 54.00  | -20.32 | AVG      |
| 3   |     | 2500.000 | 47.97         | -4.15          | 43.82       | 74.00  | -30.18 | peak     |
| 4   | *   | 2500.000 | 38.11         | -4.15          | 33.96       | 54.00  | -20.04 | AVG      |

Mode1 / Polarization: Vertical / CH: H

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 2483.500 | 49.95         | -4.23          | 45.72       | 74.00  | -28.28 | peak     |
| 2   | *   | 2483.500 | 39.38         | -4.23          | 35.15       | 54.00  | -18.85 | AVG      |
| 3   |     | 2500.000 | 47.81         | -4.15          | 43.66       | 74.00  | -30.34 | peak     |
| 4   |     | 2500.000 | 38.18         | -4.15          | 34.03       | 54.00  | -19.97 | AVG      |

# TEST REPORT

Report No.: MTi251117004-0201E1

## 6.5 Emissions in frequency bands (below 1GHz)

| Test Requirement:     | 47 CFR 15.249(a)<br>47 CFR 15.249(d)<br>47 CFR 15.249(e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------|--------------------------------------------------|------------------------------------------------|-------------|----|-----|-----------------|----|-----|---------------|----|-----|----------------|-----|------|-----------------|-----------------------------------|-------------------------------|-------------|-------------|-----|-------------|--------------|----|------------|----|----|-------|--------|---|--------|--------|---|---------|--------|---|-----------|-----|---|
| Test Limit:           | <p>Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:</p> <table border="1"> <thead> <tr> <th>Fundamental frequency</th><th>Field strength of fundamental (millivolts/meter)</th><th>Field strength of harmonics (microvolts/meter)</th></tr> </thead> <tbody> <tr> <td>902-928 MHz</td><td>50</td><td>500</td></tr> <tr> <td>2400-2483.5 MHz</td><td>50</td><td>500</td></tr> <tr> <td>5725-5875 MHz</td><td>50</td><td>500</td></tr> <tr> <td>24.0-24.25 GHz</td><td>250</td><td>2500</td></tr> </tbody> </table> <p>Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.</p> <table border="1"> <thead> <tr> <th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr> </thead> <tbody> <tr> <td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr> <tr> <td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr> <tr> <td>1.705-30.0</td><td>30</td><td>30</td></tr> <tr> <td>30-88</td><td>100 **</td><td>3</td></tr> <tr> <td>88-216</td><td>150 **</td><td>3</td></tr> <tr> <td>216-960</td><td>200 **</td><td>3</td></tr> <tr> <td>Above 960</td><td>500</td><td>3</td></tr> </tbody> </table> <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.</p> |                                                | Fundamental frequency | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) | 902-928 MHz | 50 | 500 | 2400-2483.5 MHz | 50 | 500 | 5725-5875 MHz | 50 | 500 | 24.0-24.25 GHz | 250 | 2500 | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) | 0.009-0.490 | 2400/F(kHz) | 300 | 0.490-1.705 | 24000/F(kHz) | 30 | 1.705-30.0 | 30 | 30 | 30-88 | 100 ** | 3 | 88-216 | 150 ** | 3 | 216-960 | 200 ** | 3 | Above 960 | 500 | 3 |
| Fundamental frequency | Field strength of fundamental (millivolts/meter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Field strength of harmonics (microvolts/meter) |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 902-928 MHz           | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 500                                            |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 2400-2483.5 MHz       | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 500                                            |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 5725-5875 MHz         | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 500                                            |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 24.0-24.25 GHz        | 250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2500                                           |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Frequency (MHz)       | Field strength (microvolts/meter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Measurement distance (meters)                  |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 0.009-0.490           | 2400/F(kHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 300                                            |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 0.490-1.705           | 24000/F(kHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 30                                             |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 1.705-30.0            | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 30                                             |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 30-88                 | 100 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                                              |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 88-216                | 150 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                                              |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 216-960               | 200 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                                              |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Above 960             | 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                                              |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Test Method:          | ANSI C63.10-2020 section 6.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |

# TEST REPORT

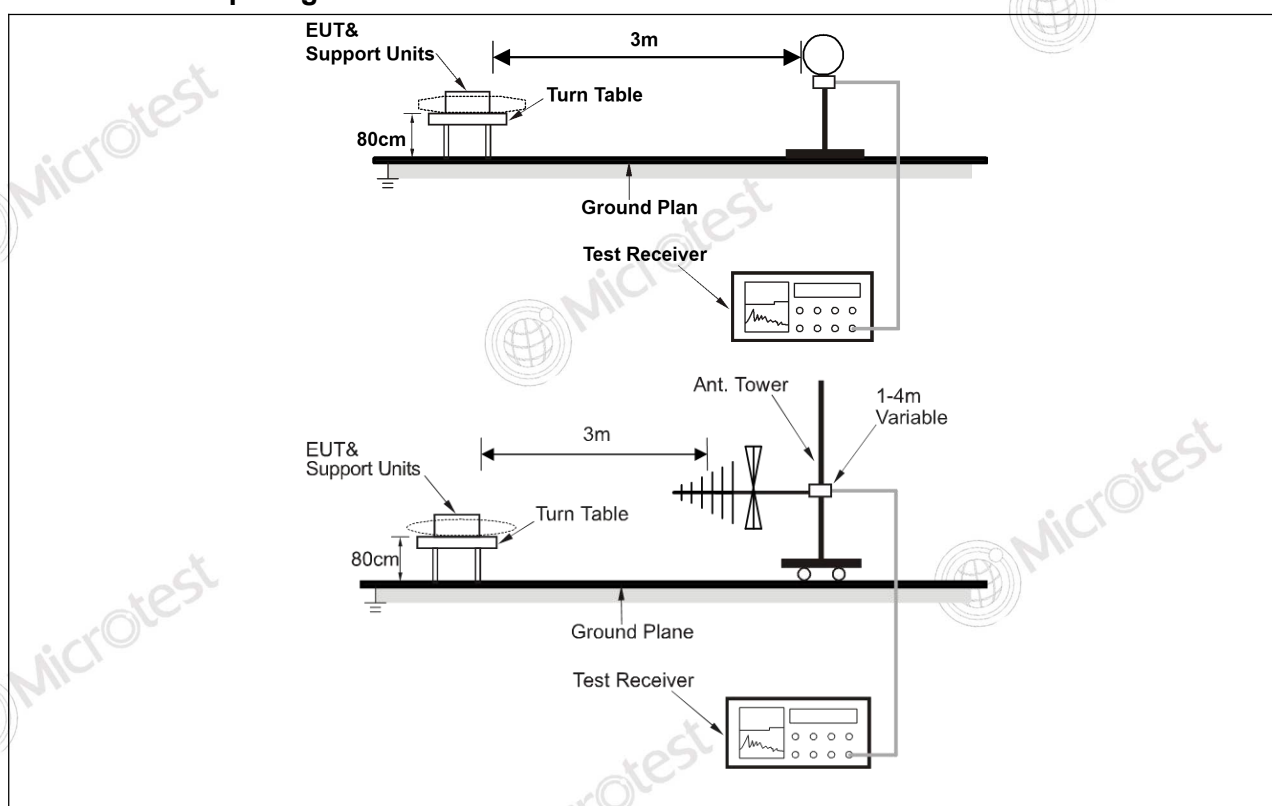
Report No.: MTi251117004-0201E1

|            |                              |
|------------|------------------------------|
| Procedure: | ANSI C63.10-2020 section 6.5 |
|------------|------------------------------|

## 6.5.1 E.U.T. Operation:

|                                                                                                                                                                        |         |           |      |                       |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|------|-----------------------|---------|
| Operating Environment:                                                                                                                                                 |         |           |      |                       |         |
| Temperature:                                                                                                                                                           | 23.8 °C | Humidity: | 55 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:                                                                                                                                                         | Mode1   |           |      |                       |         |
| Final test mode:                                                                                                                                                       | Mode1   |           |      |                       |         |
| Note:                                                                                                                                                                  |         |           |      |                       |         |
| The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.                                                            |         |           |      |                       |         |
| All modes of operation of the EUT were investigated, and only the worst-case results are reported. There were no emissions found below 30MHz within 20dB of the limit. |         |           |      |                       |         |

## 6.5.2 Test Setup Diagram:

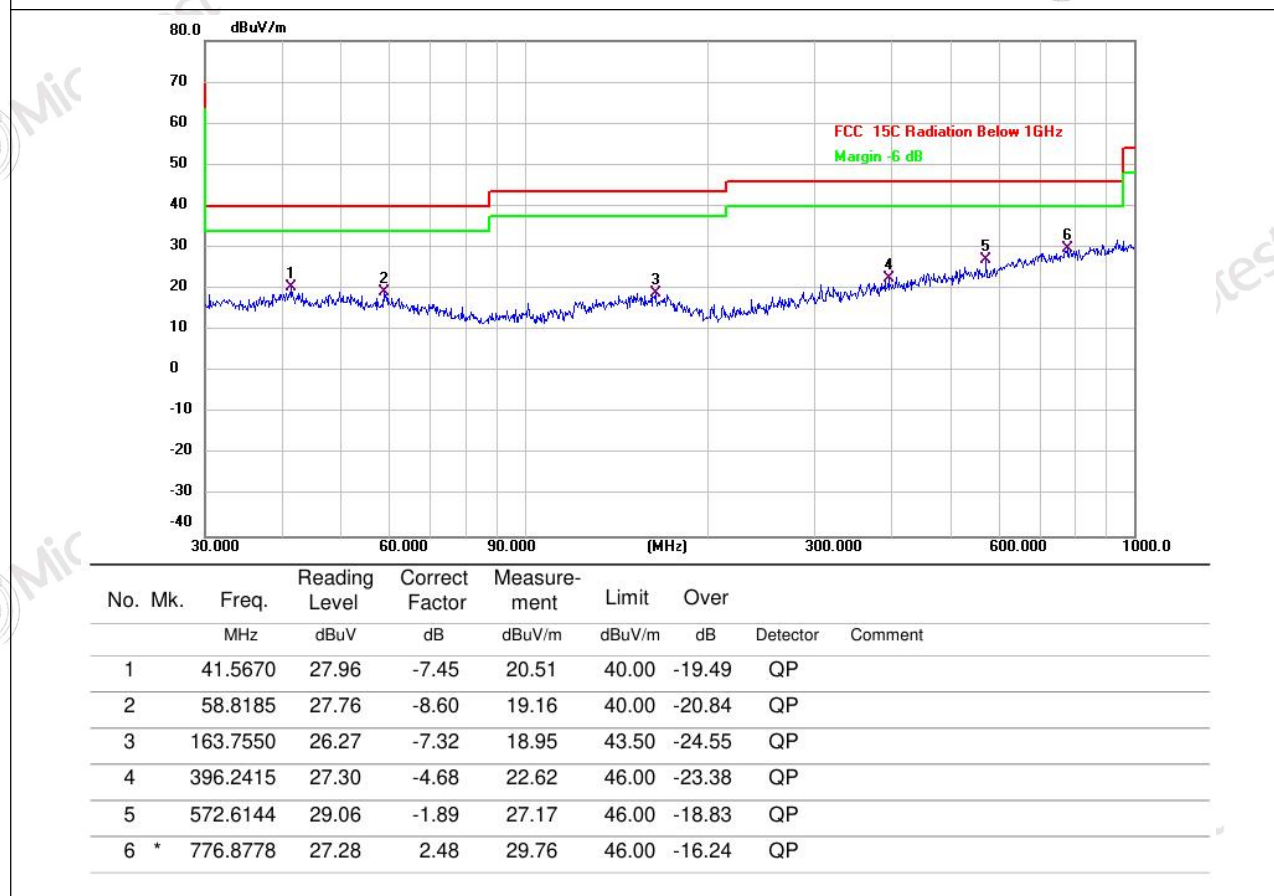


# TEST REPORT

Report No.: MTi251117004-0201E1

## 6.5.3 Test Data:

Mode1 / Polarization: Horizontal / CH: H



# TEST REPORT

Report No.: MTi251117004-0201E1

Mode1 / Polarization: Vertical / CH: H



| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|---------|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1       | 50.2324      | 28.07                    | -7.90                   | 20.17                      | 40.00           | -19.83     | QP       |         |
| 2       | 72.3376      | 27.72                    | -10.32                  | 17.40                      | 40.00           | -22.60     | QP       |         |
| 3       | 164.9075     | 27.40                    | -7.22                   | 20.18                      | 43.50           | -23.32     | QP       |         |
| 4       | 374.6225     | 28.63                    | -5.12                   | 23.51                      | 46.00           | -22.49     | QP       |         |
| 5       | 556.7744     | 28.15                    | -2.54                   | 25.61                      | 46.00           | -20.39     | QP       |         |
| 6 *     | 845.0878     | 27.91                    | 3.43                    | 31.34                      | 46.00           | -14.66     | QP       |         |

# TEST REPORT

Report No.: MTi251117004-0201E1

## 6.6 Emissions in frequency bands (above 1GHz)

| Test Requirement:     | 47 CFR 15.249(a)<br>47 CFR 15.249(d)<br>47 CFR 15.249(e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------|--------------------------------------------------|------------------------------------------------|-------------|----|-----|-----------------|----|-----|---------------|----|-----|----------------|-----|------|-----------------|-----------------------------------|-------------------------------|-------------|-------------|-----|-------------|--------------|----|------------|----|----|-------|--------|---|--------|--------|---|---------|--------|---|-----------|-----|---|
| Test Limit:           | <p>Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:</p> <table border="1"> <thead> <tr> <th>Fundamental frequency</th><th>Field strength of fundamental (millivolts/meter)</th><th>Field strength of harmonics (microvolts/meter)</th></tr> </thead> <tbody> <tr> <td>902-928 MHz</td><td>50</td><td>500</td></tr> <tr> <td>2400-2483.5 MHz</td><td>50</td><td>500</td></tr> <tr> <td>5725-5875 MHz</td><td>50</td><td>500</td></tr> <tr> <td>24.0-24.25 GHz</td><td>250</td><td>2500</td></tr> </tbody> </table> <p>Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.</p> <table border="1"> <thead> <tr> <th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr> </thead> <tbody> <tr> <td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr> <tr> <td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr> <tr> <td>1.705-30.0</td><td>30</td><td>30</td></tr> <tr> <td>30-88</td><td>100 **</td><td>3</td></tr> <tr> <td>88-216</td><td>150 **</td><td>3</td></tr> <tr> <td>216-960</td><td>200 **</td><td>3</td></tr> <tr> <td>Above 960</td><td>500</td><td>3</td></tr> </tbody> </table> <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.</p> |                                                | Fundamental frequency | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) | 902-928 MHz | 50 | 500 | 2400-2483.5 MHz | 50 | 500 | 5725-5875 MHz | 50 | 500 | 24.0-24.25 GHz | 250 | 2500 | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) | 0.009-0.490 | 2400/F(kHz) | 300 | 0.490-1.705 | 24000/F(kHz) | 30 | 1.705-30.0 | 30 | 30 | 30-88 | 100 ** | 3 | 88-216 | 150 ** | 3 | 216-960 | 200 ** | 3 | Above 960 | 500 | 3 |
| Fundamental frequency | Field strength of fundamental (millivolts/meter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Field strength of harmonics (microvolts/meter) |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 902-928 MHz           | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 500                                            |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 2400-2483.5 MHz       | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 500                                            |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 5725-5875 MHz         | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 500                                            |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 24.0-24.25 GHz        | 250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2500                                           |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Frequency (MHz)       | Field strength (microvolts/meter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Measurement distance (meters)                  |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 0.009-0.490           | 2400/F(kHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 300                                            |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 0.490-1.705           | 24000/F(kHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 30                                             |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 1.705-30.0            | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 30                                             |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 30-88                 | 100 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                                              |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 88-216                | 150 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                                              |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 216-960               | 200 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                                              |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Above 960             | 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                                              |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Test Method:          | ANSI C63.10-2020 section 6.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |

# TEST REPORT

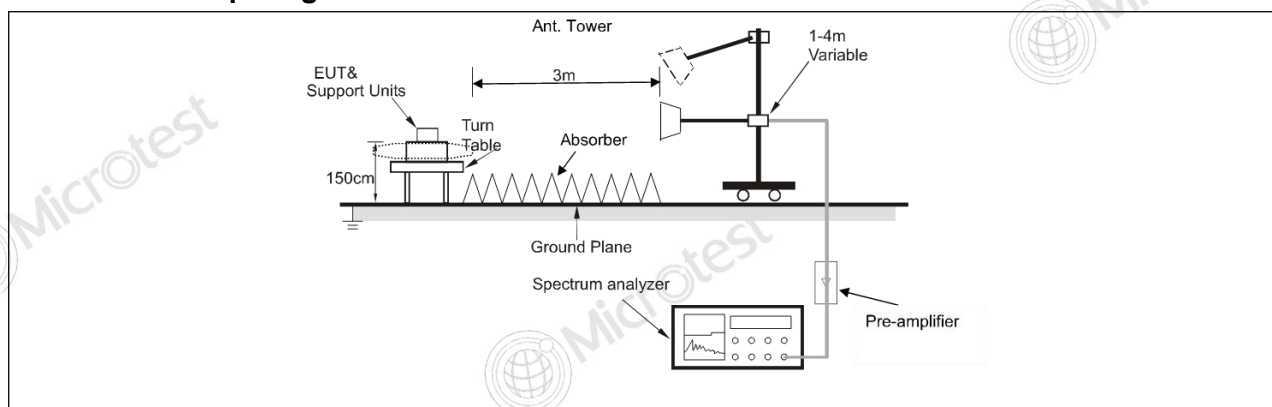
Report No.: MTi251117004-0201E1

|            |                              |
|------------|------------------------------|
| Procedure: | ANSI C63.10-2020 section 6.6 |
|------------|------------------------------|

## 6.6.1 E.U.T. Operation:

|                                                                                                                                                                                                                                                                |         |           |      |                       |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|------|-----------------------|---------|
| Operating Environment:                                                                                                                                                                                                                                         |         |           |      |                       |         |
| Temperature:                                                                                                                                                                                                                                                   | 23.8 °C | Humidity: | 55 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:                                                                                                                                                                                                                                                 | Mode1   |           |      |                       |         |
| Final test mode:                                                                                                                                                                                                                                               | Mode1   |           |      |                       |         |
| Note: Test frequency are from 1GHz to 25GHz, the amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.<br>All modes of operation of the EUT were investigated, and only the worst-case results are reported. |         |           |      |                       |         |

## 6.6.2 Test Setup Diagram:



# TEST REPORT

Report No.: MTi251117004-0201E1

## 6.6.3 Test Data:

Mode1 / Polarization: Horizontal / CH: L

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 4806.000 | 43.99         | 1.78           | 45.77       | 74.00  | -28.23 | peak     |
| 2   |     | 4806.000 | 39.58         | 1.78           | 41.36       | 54.00  | -12.64 | AVG      |
| 3   |     | 7209.000 | 42.93         | 7.56           | 50.49       | 74.00  | -23.51 | peak     |
| 4   |     | 7209.000 | 38.13         | 7.56           | 45.69       | 54.00  | -8.31  | AVG      |
| 5   |     | 9612.000 | 45.11         | 8.82           | 53.93       | 74.00  | -20.07 | peak     |
| 6   | *   | 9612.000 | 39.75         | 8.82           | 48.57       | 54.00  | -5.43  | AVG      |

Mode1 / Polarization: Vertical / CH: L

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 4806.000 | 43.41         | 1.78           | 45.19       | 74.00  | -28.81 | peak     |
| 2   |     | 4806.000 | 38.58         | 1.78           | 40.36       | 54.00  | -13.64 | AVG      |
| 3   |     | 7209.000 | 43.24         | 7.56           | 50.80       | 74.00  | -23.20 | peak     |
| 4   |     | 7209.000 | 38.12         | 7.56           | 45.68       | 54.00  | -8.32  | AVG      |
| 5   |     | 9612.000 | 44.97         | 8.82           | 53.79       | 74.00  | -20.21 | peak     |
| 6   | *   | 9612.000 | 39.87         | 8.82           | 48.69       | 54.00  | -5.31  | AVG      |

# TEST REPORT

Report No.: MTi251117004-0201E1

Mode1 / Polarization: Horizontal / CH: M

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 4882.000 | 43.39         | 2.10           | 45.49       | 74.00  | -28.51 | peak     |
| 2   |     | 4882.000 | 39.26         | 2.10           | 41.36       | 54.00  | -12.64 | AVG      |
| 3   |     | 7323.000 | 44.41         | 7.93           | 52.34       | 74.00  | -21.66 | peak     |
| 4   |     | 7323.000 | 40.72         | 7.93           | 48.65       | 54.00  | -5.35  | AVG      |
| 5   |     | 9764.000 | 44.33         | 9.34           | 53.67       | 74.00  | -20.33 | peak     |
| 6   | *   | 9764.000 | 40.33         | 9.34           | 49.67       | 54.00  | -4.33  | AVG      |

Mode1 / Polarization: Vertical / CH: M

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 4882.000 | 45.46         | 2.10           | 47.56       | 74.00  | -26.44 | peak     |
| 2   |     | 4882.000 | 40.26         | 2.10           | 42.36       | 54.00  | -11.64 | AVG      |
| 3   |     | 7323.000 | 43.86         | 7.93           | 51.79       | 74.00  | -22.21 | peak     |
| 4   |     | 7323.000 | 39.72         | 7.93           | 47.65       | 54.00  | -6.35  | AVG      |
| 5   |     | 9764.000 | 44.73         | 9.34           | 54.07       | 74.00  | -19.93 | peak     |
| 6   | *   | 9764.000 | 41.02         | 9.34           | 50.36       | 54.00  | -3.64  | AVG      |

# TEST REPORT

Report No.: MTi251117004-0201E1

Mode1 / Polarization: Horizontal / CH: H

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 4960.000 | 43.84         | 2.45           | 46.29       | 74.00  | -27.71 | peak     |
| 2   |     | 4960.000 | 39.91         | 2.45           | 42.36       | 54.00  | -11.64 | AVG      |
| 3   |     | 7440.000 | 45.20         | 7.79           | 52.99       | 74.00  | -21.01 | peak     |
| 4   |     | 7440.000 | 40.90         | 7.79           | 48.69       | 54.00  | -5.31  | AVG      |
| 5   |     | 9920.000 | 44.79         | 9.17           | 53.96       | 74.00  | -20.04 | peak     |
| 6   | *   | 9920.000 | 40.50         | 9.17           | 49.67       | 54.00  | -4.33  | AVG      |

Mode1 / Polarization: Vertical / CH: H

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 4960.000 | 43.54         | 2.45           | 45.99       | 74.00  | -28.01 | peak     |
| 2   |     | 4960.000 | 38.91         | 2.45           | 41.36       | 54.00  | -12.64 | AVG      |
| 3   |     | 7440.000 | 43.37         | 7.79           | 51.16       | 74.00  | -22.84 | peak     |
| 4   |     | 7440.000 | 39.90         | 7.79           | 47.69       | 54.00  | -6.31  | AVG      |
| 5   |     | 9920.000 | 44.99         | 9.17           | 54.16       | 74.00  | -19.84 | peak     |
| 6   | *   | 9920.000 | 41.15         | 9.17           | 50.32       | 54.00  | -3.68  | AVG      |

## TEST REPORT

Report No.: MTi251117004-0201E1

### Photographs of the test setup

Refer to Appendix - Test Setup Photos

## TEST REPORT

Report No.: MTi251117004-0201E1

### Photographs of the EUT

Refer to Appendix - EUT Photos

## TEST REPORT

Report No.: MTi251117004-0201E1

### Statement

1. This report is invalid without the seal and signature of the laboratory.
2. The test results of this report are only responsible for the samples submitted. Client shall be responsible for representativeness of the sample and authenticity of the material.
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\*\*\*\*\* END OF REPORT \*\*\*\*\*