

# Test Report

**Report No.** : MTi260119013-0302E2  
**Date of issue** : 2026-02-10  
**Applicant** : CHUG, INC.  
**Product** : wireless mouse  
**Model(s)** : BEMS02  
**FCC ID** : 2AO23-BEMS02

**Shenzhen Microtest Co., Ltd.**

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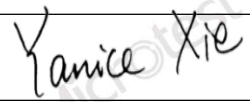
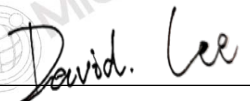
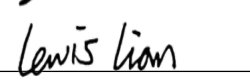
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| Test Result Certification |                                                                                    |                                                                                       |
|---------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Applicant                 | CHUG, INC.                                                                         |                                                                                       |
| Applicant Address         | 7157 Shady Oak Road Eden Prairie, MN 55344                                         |                                                                                       |
| Manufacturer              | Si Yuan Tech Co.,Ltd                                                               |                                                                                       |
| Manufacturer Address      | LOT G3, N5 ROAD, CHAUSON INDUSTRIAL PARK, CHAUSON WARD, NINHBINH PROVINCE, VIETNAM |                                                                                       |
| Factory                   | Si Yuan Tech Co.,Ltd                                                               |                                                                                       |
| Factory Address           | LOT G3, N5 ROAD, CHAUSON INDUSTRIAL PARK, CHAUSON WARD, NINHBINH PROVINCE, VIETNAM |                                                                                       |
| Product description       |                                                                                    |                                                                                       |
| Product name              | wireless mouse                                                                     |                                                                                       |
| Trademark                 | Heyday, heyday™, GEMS                                                              |                                                                                       |
| Model name                | BEMS02                                                                             |                                                                                       |
| Series Model(s)           | N/A                                                                                |                                                                                       |
| Standards                 | 47 CFR Part 15.249                                                                 |                                                                                       |
| Test Method               | ANSI C63.10-2020+Cor 1-2023                                                        |                                                                                       |
| Testing Information       |                                                                                    |                                                                                       |
| Date of test              | 2026-01-26 to 2026-01-30                                                           |                                                                                       |
| Test result               | Pass                                                                               |                                                                                       |
| Prepared by:              | Yanice Xie                                                                         |  |
| Reviewed by:              | David Lee                                                                          |  |
| Approved by:              | Lewis Lian                                                                         |  |

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## 1 General Description

### 1.1 Description of the EUT

|                            |                                         |
|----------------------------|-----------------------------------------|
| Product name:              | wireless mouse                          |
| Model name:                | BEMS02                                  |
| Series Model(s):           | N/A                                     |
| Model difference:          | N/A                                     |
| Electrical rating:         | Input: DC 5V<br>Battery: DC 3.7V 500mAh |
| Accessories:               | Cable:<br>USB-A to USB-C 30cm           |
| Hardware version:          | V1.0                                    |
| Software version:          | V59                                     |
| Test sample(s) number:     | MTi260119013-03-R001                    |
| <b>RF specification</b>    |                                         |
| Operating frequency range: | 2402-2480MHz                            |
| Channel number:            | 40                                      |
| Modulation type:           | GFSK                                    |
| Antenna(s) type:           | PCB Antenna                             |
| Antenna(s) gain:           | 1.74 dBi                                |

### 1.2 Description of test modes

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

#### 1.2.1 Operation channel list

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 0       | 2402            | 10      | 2422            | 20      | 2442            | 30      | 2462            |
| 1       | 2404            | 11      | 2424            | 21      | 2444            | 31      | 2464            |
| 2       | 2406            | 12      | 2426            | 22      | 2446            | 32      | 2466            |
| 3       | 2408            | 13      | 2428            | 23      | 2448            | 33      | 2468            |
| 4       | 2410            | 14      | 2430            | 24      | 2450            | 34      | 2470            |
| 5       | 2412            | 15      | 2432            | 25      | 2452            | 35      | 2472            |
| 6       | 2414            | 16      | 2434            | 26      | 2454            | 36      | 2474            |
| 7       | 2416            | 17      | 2436            | 27      | 2456            | 37      | 2476            |
| 8       | 2418            | 18      | 2438            | 28      | 2458            | 38      | 2478            |

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|   |      |    |      |    |      |    |      |
|---|------|----|------|----|------|----|------|
| 9 | 2420 | 19 | 2440 | 29 | 2460 | 39 | 2480 |
|---|------|----|------|----|------|----|------|

### Test Channel List

#### Operation Band: 2.4G

| Bandwidth<br>(MHz) | Lowest Channel<br>(LCH)<br>(MHz) | Middle Channel<br>(MCH)<br>(MHz) | Highest Channel<br>(HCH)<br>(MHz) |
|--------------------|----------------------------------|----------------------------------|-----------------------------------|
| 2                  | 2402                             | 2440                             | 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 Software: Mouse button frequency setting

For power setting, refer to below table.

| Mode | 2402MHz | 2440MHz | 2480MHz |
|------|---------|---------|---------|
| 1M   | default | default | default |

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### 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 |
|-------------|-------|------------|--------------|
| Laptop      | e485  | /          | Lenovo       |
| Adapter     | A1443 | /          | Apple        |

#### 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.

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### 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   |

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### 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                                                                                                                               |

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## 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 | /          | /          | /          |
| Band edge emissions (Radiated)<br>Field strength of fundamental<br>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 |

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| 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   | ESCi7                      | 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 | /          | /          | /          |

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### 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. |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

##### 5.1.1 Conclusion:

The antenna of the EUT is permanently attached.  
The EUT complies with the requirement of FCC PART 15.203.

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## 6 Radio Spectrum Matter Test Results (RF)

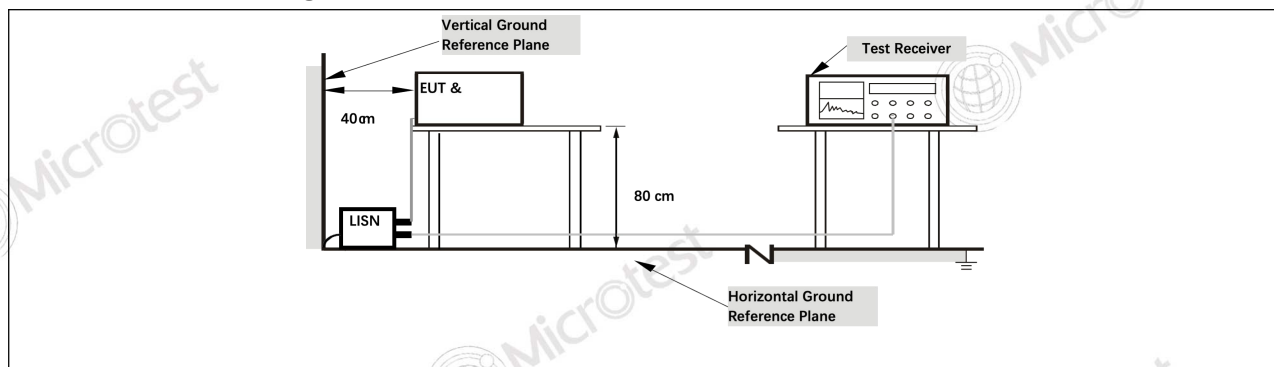
### 6.1 Conducted Emission at AC power line

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |           |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------|
| 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+Cor 1-2023 section 6.2                                                                                                                                                                                                                                                                                                                                                                                                              |                              |           |
| Procedure:                                      | Refer to ANSI C63.10-2020+Cor 1-2023 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:           | 24 °C | Humidity: | 58 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:         | Mode1 |           |      |                       |         |
| Final test mode:       | Mode1 |           |      |                       |         |

#### 6.1.2 Test Setup Diagram:

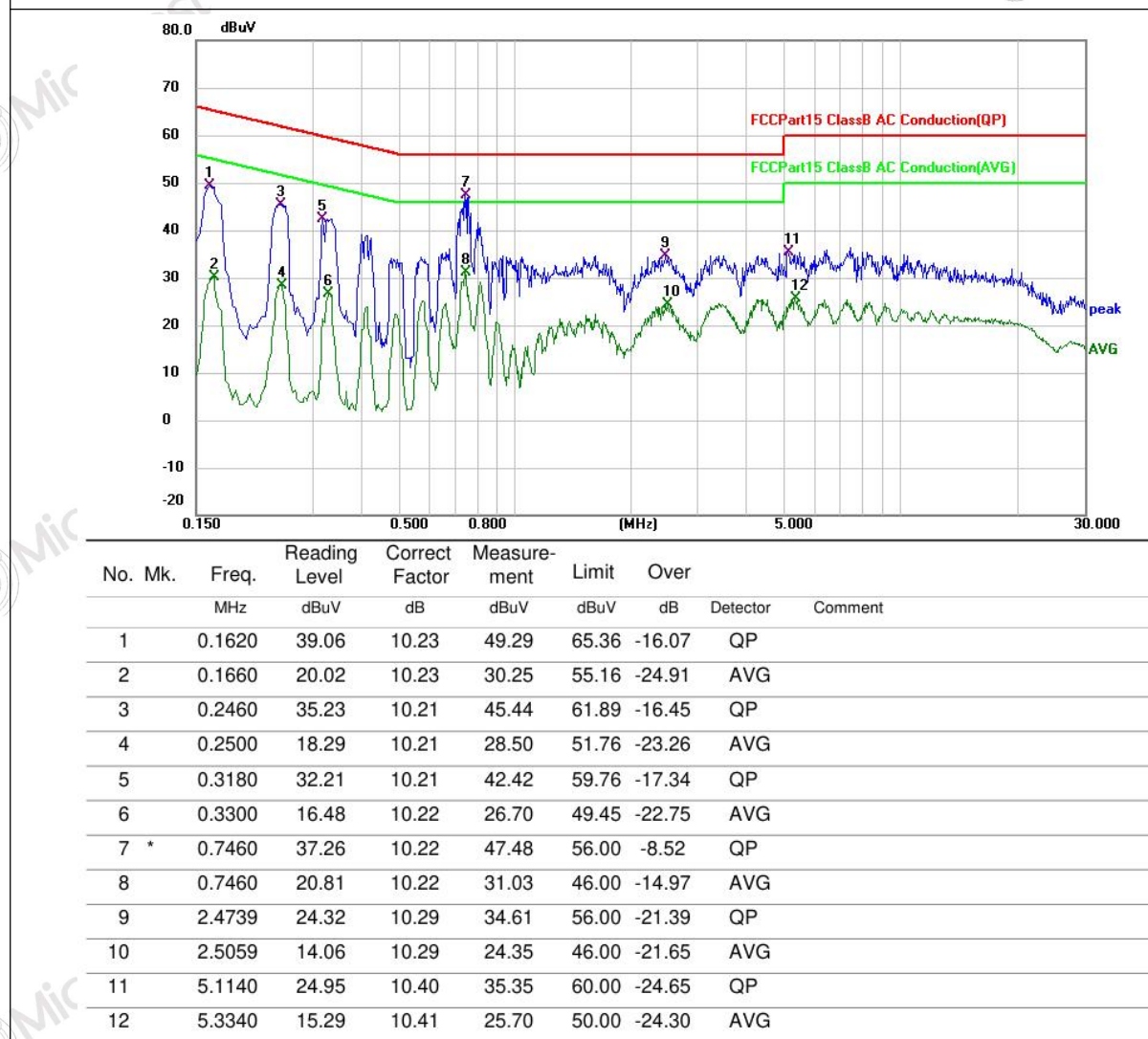


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## 6.1.3 Test Data:

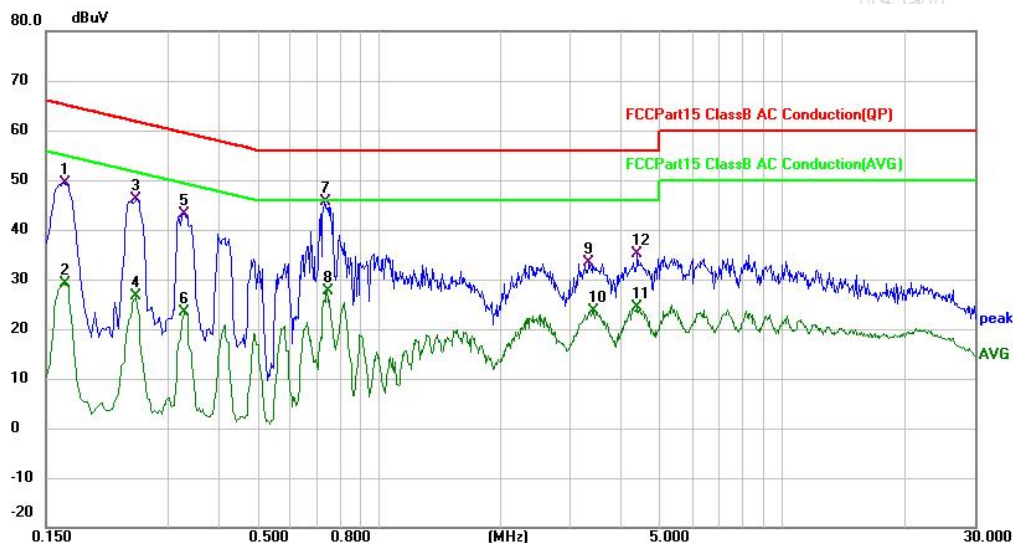
Mode1 / Line: Line / CH: L



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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       | 39.15                    | 10.17                   | 49.32                    | 65.16         | -15.84     | QP       |         |
| 2       | 0.1660       | 18.85                    | 10.17                   | 29.02                    | 55.16         | -26.14     | AVG      |         |
| 3       | 0.2500       | 35.88                    | 10.16                   | 46.04                    | 61.76         | -15.72     | QP       |         |
| 4       | 0.2500       | 16.39                    | 10.16                   | 26.55                    | 51.76         | -25.21     | AVG      |         |
| 5       | 0.3300       | 33.08                    | 10.16                   | 43.24                    | 59.45         | -16.21     | QP       |         |
| 6       | 0.3300       | 13.12                    | 10.16                   | 23.28                    | 49.45         | -26.17     | AVG      |         |
| 7 *     | 0.7340       | 35.55                    | 10.17                   | 45.72                    | 56.00         | -10.28     | QP       |         |
| 8       | 0.7460       | 17.36                    | 10.17                   | 27.53                    | 46.00         | -18.47     | AVG      |         |
| 9       | 3.3380       | 23.20                    | 10.25                   | 33.45                    | 56.00         | -22.55     | QP       |         |
| 10      | 3.4300       | 13.48                    | 10.25                   | 23.73                    | 46.00         | -22.27     | AVG      |         |
| 11      | 4.3819       | 14.18                    | 10.29                   | 24.47                    | 46.00         | -21.53     | AVG      |         |
| 12      | 4.3859       | 24.72                    | 10.29                   | 35.01                    | 56.00         | -20.99     | QP       |         |

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## 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+Cor 1-2023, 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}) - \text{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

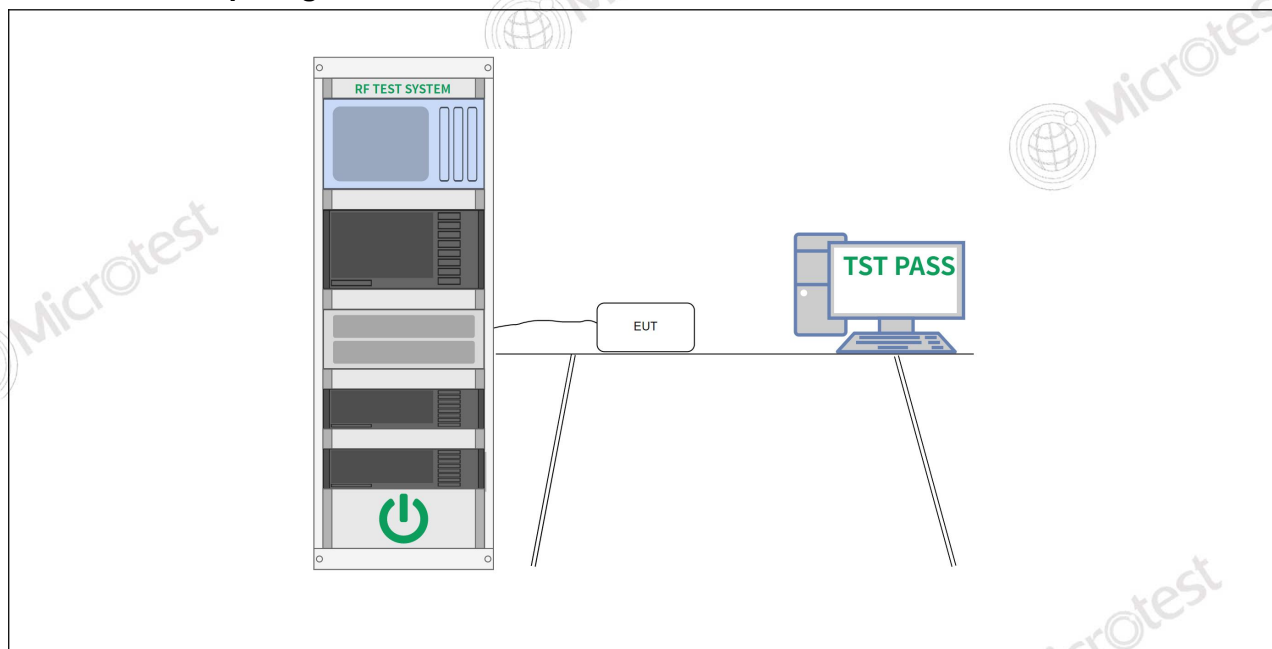
Report No.: MTi260119013-0302E2

|  |                                                                                                                                                                 |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 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:           | 24.5 °C | Humidity: | 41 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:         | Mode1   |           |      |                       |         |
| Final test mode:       | Mode1   |           |      |                       |         |

## 6.2.2 Test Setup Diagram:



## TEST REPORT

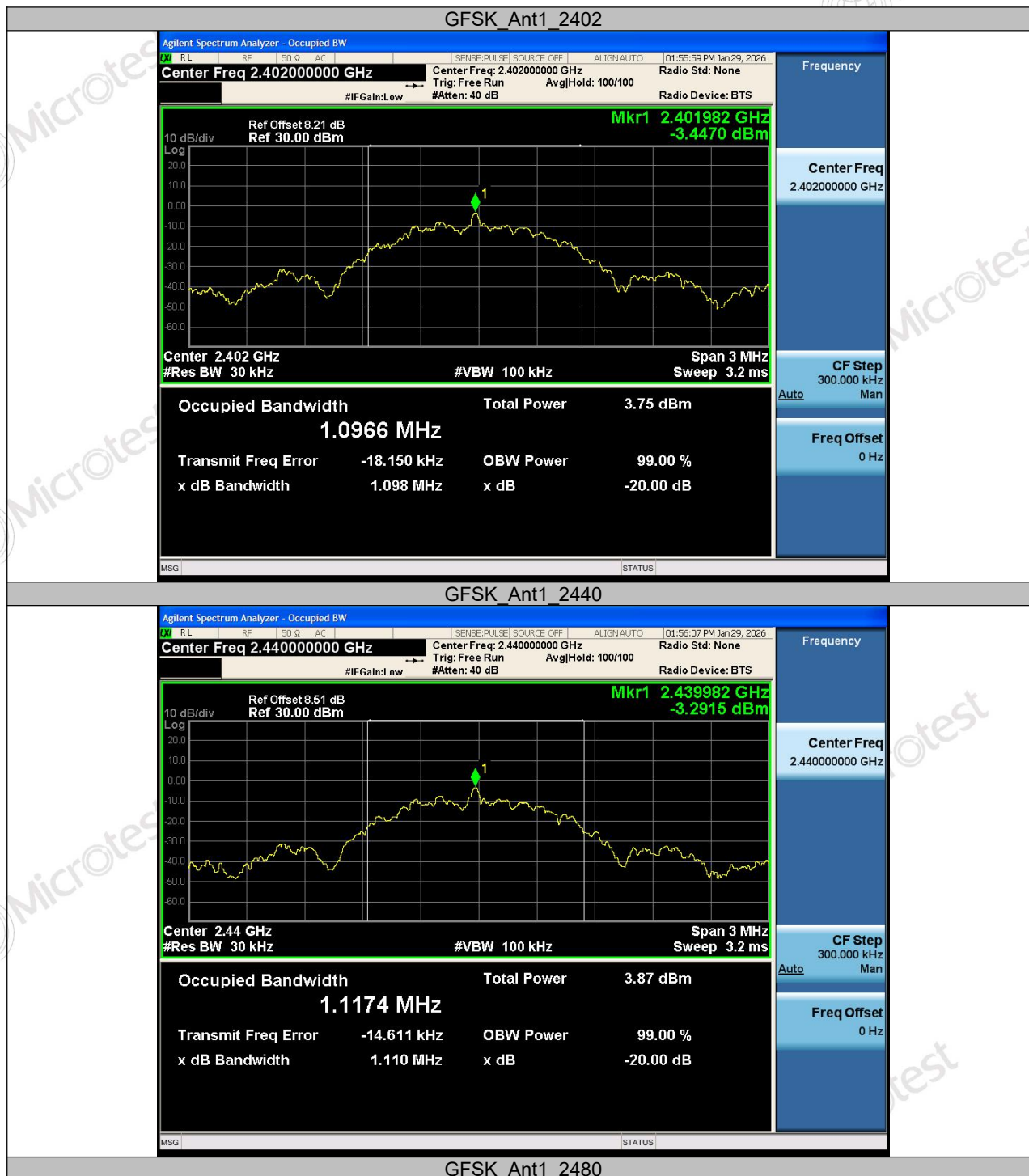
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### 6.2.3 Test Data:

| Test Mode | Antenna | Frequency<br>[MHz] | 99% OBW<br>[MHz] | 20db BW<br>[MHz] |
|-----------|---------|--------------------|------------------|------------------|
| GFSK      | Ant1    | 2402               | 1.0966           | 1.098            |
|           |         | 2440               | 1.1174           | 1.110            |
|           |         | 2480               | 1.1210           | 1.113            |

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# TEST REPORT

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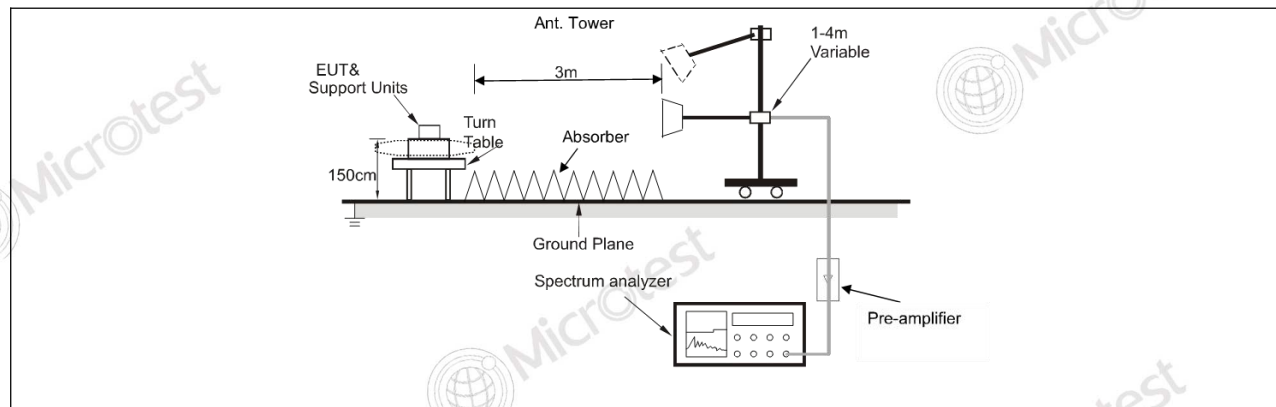
## 6.3 Field strength of fundamental

|                   |                                                                                                                                                                                        |                                                  |                                                |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------|
| 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+Cor 1-2023 section 6.6                                                                                                                                                |                                                  |                                                |
| Procedure:        | ANSI C63.10-2020+Cor 1-2023 section 6.6                                                                                                                                                |                                                  |                                                |

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

|                        |         |           |      |                       |         |
|------------------------|---------|-----------|------|-----------------------|---------|
| Operating Environment: |         |           |      |                       |         |
| Temperature:           | 23.9 °C | Humidity: | 58 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:         | Mode1   |           |      |                       |         |
| Final test mode:       | Mode1   |           |      |                       |         |

### 6.3.2 Test Setup Diagram:



## TEST REPORT

Report No.: MTi260119013-0302E2

### 6.3.3 Test Data:

Mode1 / Polarization: Horizontal / CH: L

| No. | Mk. | Freq.    | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Over        |
|-----|-----|----------|------------------|-------------------|------------------|--------|-------------|
|     |     | MHz      | dBuV             | dB                | dBuV/m           | dBuV/m | dB Detector |
| 1   |     | 2402.000 | 90.07            | -4.29             | 85.78            | 114.00 | -28.22 peak |
| 2   | *   | 2402.000 | 89.43            | -4.29             | 85.14            | 94.00  | -8.86 AVG   |

Mode1 / Polarization: Vertical / CH: L

| No. | Mk. | Freq.    | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Over        |
|-----|-----|----------|------------------|-------------------|------------------|--------|-------------|
|     |     | MHz      | dBuV             | dB                | dBuV/m           | dBuV/m | dB Detector |
| 1   |     | 2402.000 | 75.98            | -4.29             | 71.69            | 114.00 | -42.31 peak |
| 2   | *   | 2402.000 | 75.16            | -4.29             | 70.87            | 94.00  | -23.13 AVG  |

# TEST REPORT

Report No.: MTi260119013-0302E2

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   |     | 2440.000 | 87.11         | -4.35          | 82.76       | 114.00 | -31.24 | peak     |
| 2   | *   | 2440.000 | 86.40         | -4.35          | 82.05       | 94.00  | -11.95 | 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   |     | 2440.000 | 77.17         | -4.35          | 72.82       | 114.00 | -41.18 | peak     |
| 2   | *   | 2440.000 | 76.56         | -4.35          | 72.21       | 94.00  | -21.79 | AVG      |

## TEST REPORT

Report No.: MTi260119013-0302E2

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 | 87.49         | -4.24          | 83.25       | 114.00 | -30.75 | peak     |
| 2   | *   | 2480.000 | 86.89         | -4.24          | 82.65       | 94.00  | -11.35 | 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 | 81.86         | -4.24          | 77.62       | 114.00 | -36.38 | peak     |
| 2   | *   | 2480.000 | 81.19         | -4.24          | 76.95       | 94.00  | -17.05 | AVG      |

# TEST REPORT

Report No.: MTi260119013-0302E2

## 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:       | <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><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><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></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+Cor 1-2023 section 6.6.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               |  |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Procedure:        | ANSI C63.10-2020+Cor 1-2023 section 6.6.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               |  |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |

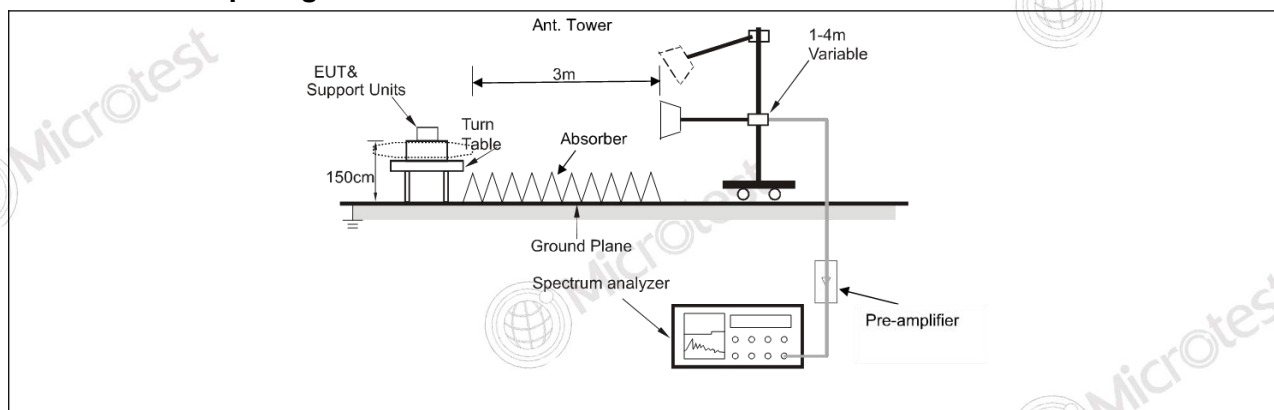
### 6.4.1 E.U.T. Operation:

|                                                                                                                      |         |           |        |                       |         |
|----------------------------------------------------------------------------------------------------------------------|---------|-----------|--------|-----------------------|---------|
| Operating Environment:                                                                                               |         |           |        |                       |         |
| Temperature:                                                                                                         | 23.6 °C | Humidity: | 45.1 % | 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. |         |           |        |                       |         |

## TEST REPORT

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### 6.4.2 Test Setup Diagram:



## TEST REPORT

Report No.: MTi260119013-0302E2

### 6.4.3 Test Data:

Mode1 / Polarization: Horizontal / CH: L

| No. | Mk. | Freq.    | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Over   |          |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|
|     |     | MHz      | dBuV             | dB                | dBuV/m           | dBuV/m | dB     | Detector |
| 1   |     | 2310.000 | 50.06            | -4.50             | 45.56            | 74.00  | -28.44 | peak     |
| 2   |     | 2310.000 | 37.81            | -4.50             | 33.31            | 54.00  | -20.69 | AVG      |
| 3   |     | 2390.000 | 63.20            | -4.31             | 58.89            | 74.00  | -15.11 | peak     |
| 4   |     | 2390.000 | 41.11            | -4.31             | 36.80            | 54.00  | -17.20 | AVG      |
| 5   |     | 2400.000 | 71.26            | -4.29             | 66.97            | 74.00  | -7.03  | peak     |
| 6   | *   | 2400.000 | 51.33            | -4.29             | 47.04            | 54.00  | -6.96  | AVG      |

## TEST REPORT

Report No.: MTi260119013-0302E2

Mode1 / Polarization: Vertical / CH: L

| 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 |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 2310.000     | 48.19                    | -4.50                   | 43.69                      | 74.00           | -30.31     | peak     |
| 2   |     | 2310.000     | 37.68                    | -4.50                   | 33.18                      | 54.00           | -20.82     | AVG      |
| 3   |     | 2390.000     | 48.27                    | -4.31                   | 43.96                      | 74.00           | -30.04     | peak     |
| 4   |     | 2390.000     | 37.85                    | -4.31                   | 33.54                      | 54.00           | -20.46     | AVG      |
| 5   |     | 2400.000     | 57.68                    | -4.29                   | 53.39                      | 74.00           | -20.61     | peak     |
| 6   | *   | 2400.000     | 47.30                    | -4.29                   | 43.01                      | 54.00           | -10.99     | AVG      |

## TEST REPORT

Report No.: MTi260119013-0302E2

Mode1 / Polarization: Horizontal / 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 |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 2483.500     | 61.09                    | -4.23                   | 56.86                      | 74.00           | -17.14     | peak     |
| 2   | *   | 2483.500     | 43.96                    | -4.23                   | 39.73                      | 54.00           | -14.27     | AVG      |
| 3   |     | 2500.000     | 51.43                    | -4.15                   | 47.28                      | 74.00           | -26.72     | peak     |
| 4   |     | 2500.000     | 37.68                    | -4.15                   | 33.53                      | 54.00           | -20.47     | AVG      |

## TEST REPORT

Report No.: MTi260119013-0302E2

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 |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 2483.500     | 66.84                    | -4.23                   | 62.61                      | 74.00           | -11.39     | peak     |
| 2   | *   | 2483.500     | 48.65                    | -4.23                   | 44.42                      | 54.00           | -9.58      | AVG      |
| 3   |     | 2500.000     | 57.91                    | -4.15                   | 53.76                      | 74.00           | -20.24     | peak     |
| 4   |     | 2500.000     | 37.91                    | -4.15                   | 33.76                      | 54.00           | -20.24     | AVG      |

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## 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+Cor 1-2023 section 6.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |

# TEST REPORT

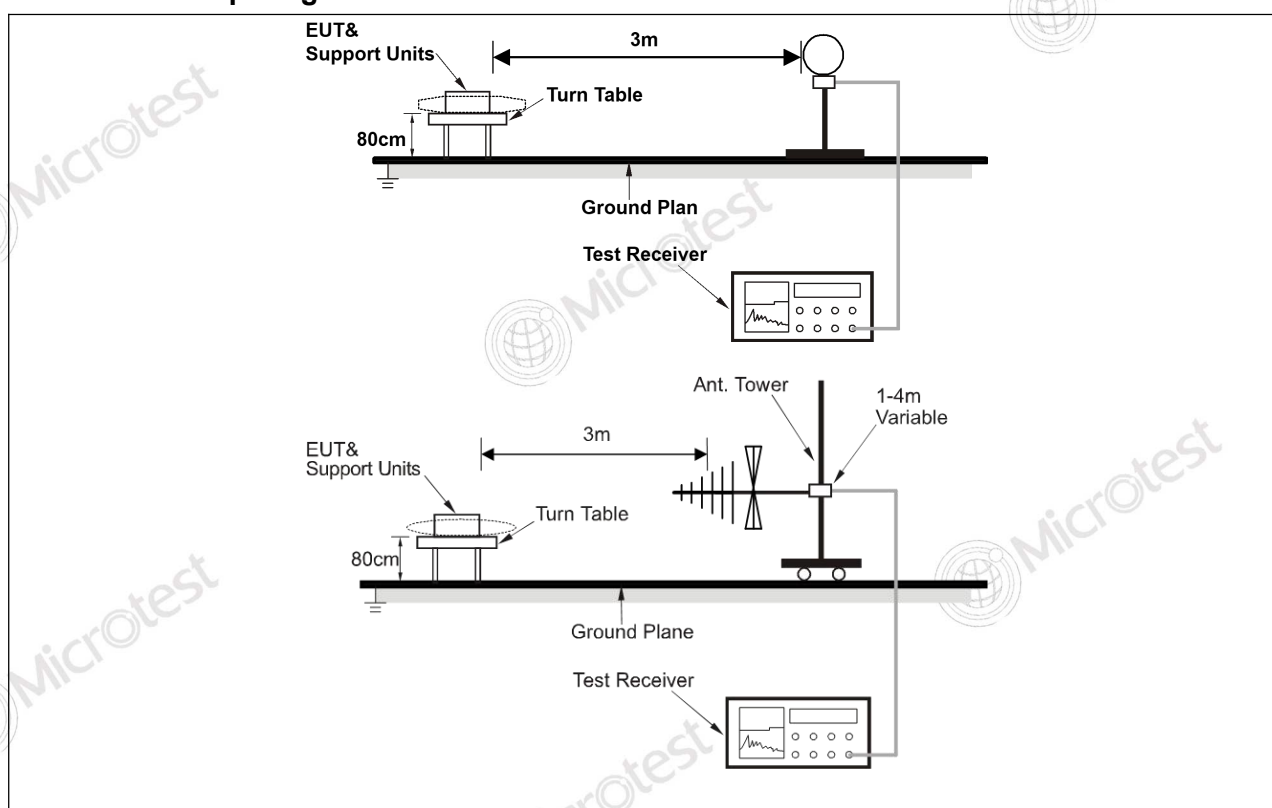
Report No.: MTi260119013-0302E2

|            |                                         |
|------------|-----------------------------------------|
| Procedure: | ANSI C63.10-2020+Cor 1-2023 section 6.5 |
|------------|-----------------------------------------|

## 6.5.1 E.U.T. Operation:

|                                                                                                                                                                        |         |           |        |                       |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|--------|-----------------------|---------|
| Operating Environment:                                                                                                                                                 |         |           |        |                       |         |
| Temperature:                                                                                                                                                           | 23.6 °C | Humidity: | 45.1 % | 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:

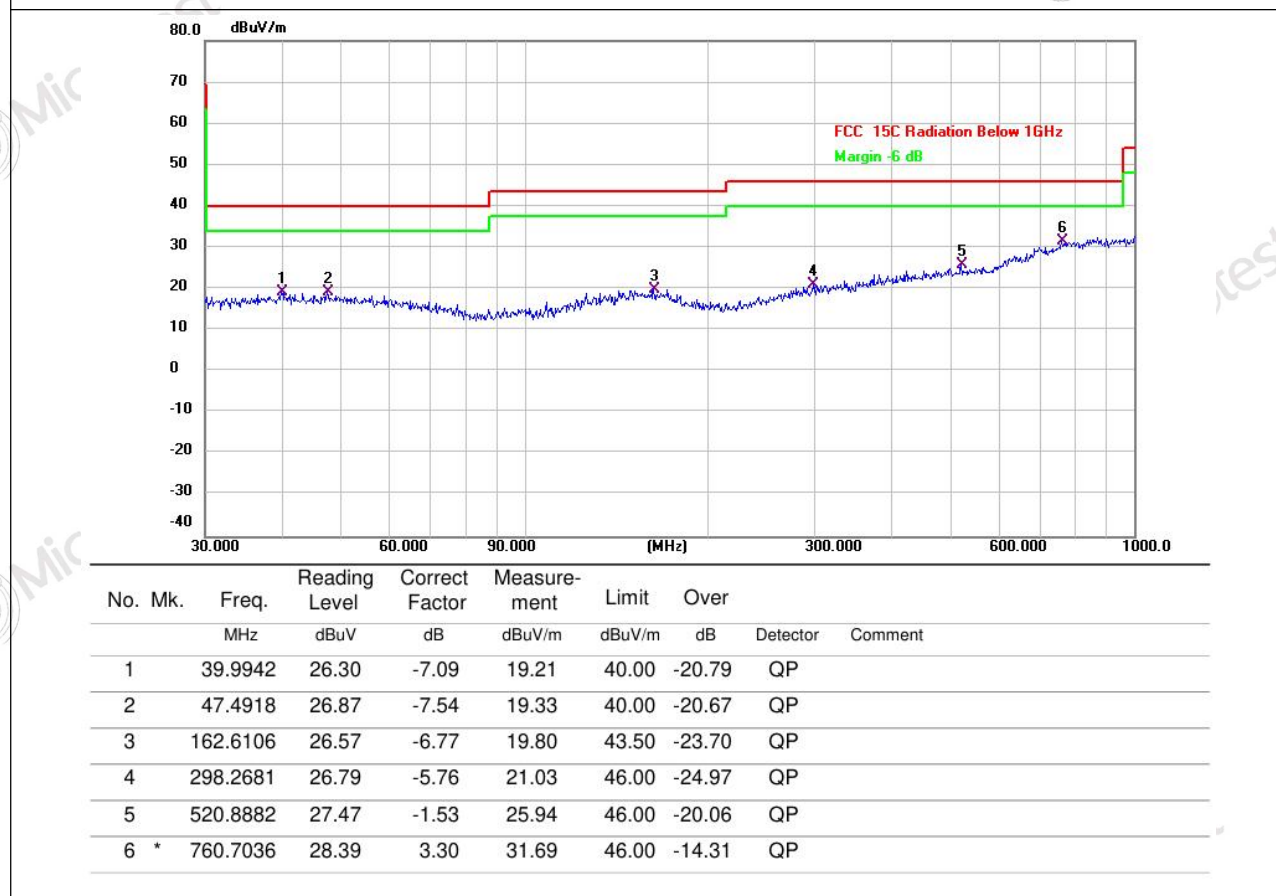


# TEST REPORT

Report No.: MTi260119013-0302E2

## 6.5.3 Test Data:

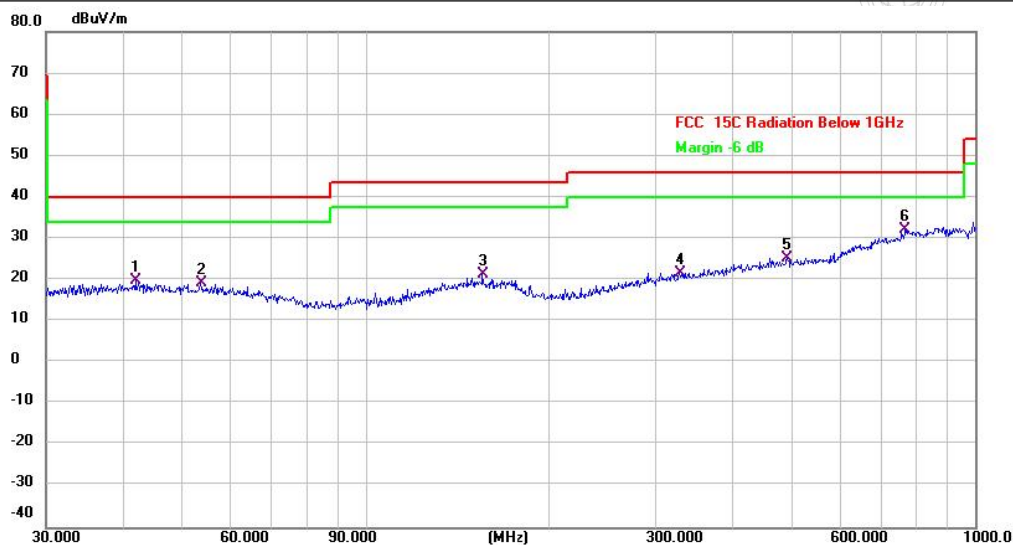
Mode1 / Polarization: Horizontal / CH: H



# TEST REPORT

Report No.: MTi260119013-0302E2

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   |     | 42.0066      | 27.08                    | -7.19                   | 19.89                      | 40.00           | -20.11     | QP       |         |
| 2   |     | 53.6932      | 27.01                    | -7.82                   | 19.19                      | 40.00           | -20.81     | QP       |         |
| 3   |     | 155.3644     | 27.45                    | -6.22                   | 21.23                      | 43.50           | -22.27     | QP       |         |
| 4   |     | 327.8873     | 27.06                    | -5.29                   | 21.77                      | 46.00           | -24.23     | QP       |         |
| 5   |     | 492.4685     | 27.21                    | -2.00                   | 25.21                      | 46.00           | -20.79     | QP       |         |
| 6   | *   | 768.7481     | 28.51                    | 3.55                    | 32.06                      | 46.00           | -13.94     | QP       |         |

# TEST REPORT

Report No.: MTi260119013-0302E2

## 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
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| 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+Cor 1-2023 section 6.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                |                       |                                                  |                                                |             |    |     |                 |    |     |               |    |     |                |     |      |                 |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |

# TEST REPORT

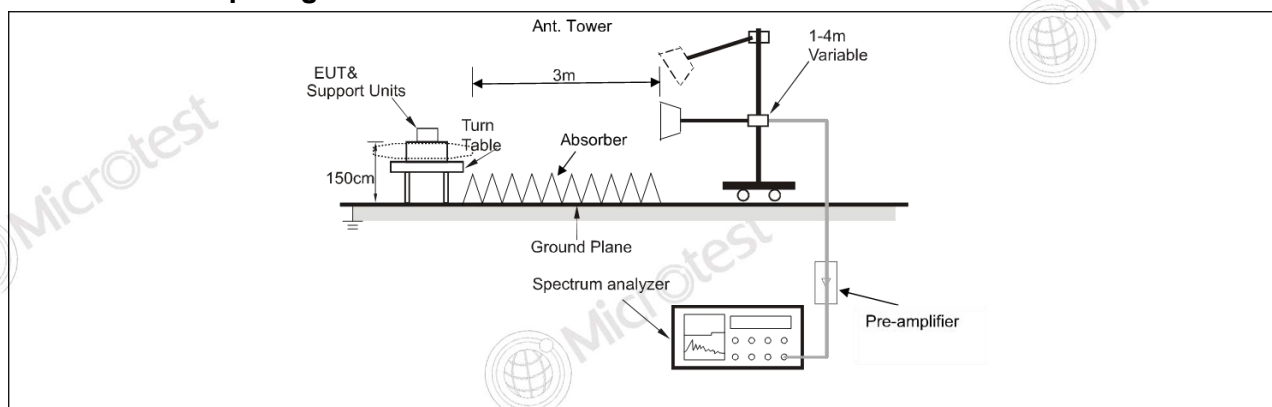
Report No.: MTi260119013-0302E2

|            |                                         |
|------------|-----------------------------------------|
| Procedure: | ANSI C63.10-2020+Cor 1-2023 section 6.6 |
|------------|-----------------------------------------|

## 6.6.1 E.U.T. Operation:

|                                                                                                                                                                                                                                                                |         |           |        |                       |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|--------|-----------------------|---------|
| Operating Environment:                                                                                                                                                                                                                                         |         |           |        |                       |         |
| Temperature:                                                                                                                                                                                                                                                   | 23.6 °C | Humidity: | 45.1 % | 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

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### 6.6.3 Test Data:

Mode1 / Polarization: Horizontal / CH: L

| No. | Mk. | Freq.    | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Over   |          |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|
|     |     | MHz      | dBuV             | dB                | dBuV/m           | dBuV/m | dB     | Detector |
| 1   |     | 4804.000 | 48.53            | 1.78              | 50.31            | 74.00  | -23.69 | peak     |
| 2   |     | 4804.000 | 43.43            | 1.78              | 45.21            | 54.00  | -8.79  | AVG      |
| 3   |     | 7206.000 | 43.30            | 7.57              | 50.87            | 74.00  | -23.13 | peak     |
| 4   |     | 7206.000 | 38.75            | 7.57              | 46.32            | 54.00  | -7.68  | AVG      |
| 5   |     | 9608.000 | 45.11            | 8.79              | 53.90            | 74.00  | -20.10 | peak     |
| 6   | *   | 9608.000 | 39.93            | 8.79              | 48.72            | 54.00  | -5.28  | AVG      |

## TEST REPORT

Report No.: MTi260119013-0302E2

Mode1 / Polarization: Vertical / CH: L

| 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 |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 4804.000     | 47.17                    | 1.78                    | 48.95                      | 74.00           | -25.05     | peak     |
| 2   |     | 4804.000     | 40.83                    | 1.78                    | 42.61                      | 54.00           | -11.39     | AVG      |
| 3   |     | 7206.000     | 42.51                    | 7.57                    | 50.08                      | 74.00           | -23.92     | peak     |
| 4   |     | 7206.000     | 37.14                    | 7.57                    | 44.71                      | 54.00           | -9.29      | AVG      |
| 5   |     | 9608.000     | 44.24                    | 8.79                    | 53.03                      | 74.00           | -20.97     | peak     |
| 6   | *   | 9608.000     | 37.93                    | 8.79                    | 46.72                      | 54.00           | -7.28      | AVG      |

## TEST REPORT

Report No.: MTi260119013-0302E2

Mode1 / Polarization: Horizontal / CH: M

| 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 |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 4880.000     | 49.87                    | 2.09                    | 51.96                      | 74.00           | -22.04     | peak     |
| 2   |     | 4880.000     | 44.22                    | 2.09                    | 46.31                      | 54.00           | -7.69      | AVG      |
| 3   |     | 7320.000     | 42.36                    | 7.90                    | 50.26                      | 74.00           | -23.74     | peak     |
| 4   |     | 7320.000     | 37.31                    | 7.90                    | 45.21                      | 54.00           | -8.79      | AVG      |
| 5   |     | 9760.000     | 43.15                    | 9.36                    | 52.51                      | 74.00           | -21.49     | peak     |
| 6   | *   | 9760.000     | 39.91                    | 9.36                    | 49.27                      | 54.00           | -4.73      | AVG      |

## TEST REPORT

Report No.: MTi260119013-0302E2

Mode1 / Polarization: Vertical / CH: M

| No. | Mk. | Freq.    | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Over   |          |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|
|     |     | MHz      | dBuV             | dB                | dBuV/m           | dBuV/m | dB     | Detector |
| 1   |     | 4880.000 | 42.20            | 2.09              | 44.29            | 74.00  | -29.71 | peak     |
| 2   |     | 4880.000 | 38.12            | 2.09              | 40.21            | 54.00  | -13.79 | AVG      |
| 3   |     | 7320.000 | 43.35            | 7.90              | 51.25            | 74.00  | -22.75 | peak     |
| 4   |     | 7320.000 | 38.42            | 7.90              | 46.32            | 54.00  | -7.68  | AVG      |
| 5   |     | 9760.000 | 44.31            | 9.36              | 53.67            | 74.00  | -20.33 | peak     |
| 6   | *   | 9760.000 | 39.88            | 9.36              | 49.24            | 54.00  | -4.76  | AVG      |

## TEST REPORT

Report No.: MTi260119013-0302E2

Mode1 / Polarization: Horizontal / 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 |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 4960.000     | 43.21                    | 3.10                    | 46.31                      | 74.00           | -27.69     | peak     |
| 2   |     | 4960.000     | 37.15                    | 3.10                    | 40.25                      | 54.00           | -13.75     | AVG      |
| 3   |     | 7440.000     | 42.91                    | 7.65                    | 50.56                      | 74.00           | -23.44     | peak     |
| 4   |     | 7440.000     | 38.66                    | 7.65                    | 46.31                      | 54.00           | -7.69      | AVG      |
| 5   |     | 9920.000     | 44.13                    | 9.23                    | 53.36                      | 74.00           | -20.64     | peak     |
| 6   | *   | 9920.000     | 39.04                    | 9.23                    | 48.27                      | 54.00           | -5.73      | AVG      |

## TEST REPORT

Report No.: MTi260119013-0302E2

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 |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 4960.000     | 42.91                    | 3.10                    | 46.01                      | 74.00           | -27.99     | peak     |
| 2   |     | 4960.000     | 38.29                    | 3.10                    | 41.39                      | 54.00           | -12.61     | AVG      |
| 3   |     | 7440.000     | 44.24                    | 7.65                    | 51.89                      | 74.00           | -22.11     | peak     |
| 4   | *   | 7440.000     | 39.83                    | 7.65                    | 47.48                      | 54.00           | -6.52      | AVG      |
| 5   |     | 9920.000     | 44.20                    | 9.23                    | 53.43                      | 74.00           | -20.57     | peak     |
| 6   |     | 9920.000     | 37.06                    | 9.23                    | 46.29                      | 54.00           | -7.71      | AVG      |

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### Photographs of the test setup

Refer to Appendix - Test Setup Photos

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### Photographs of the EUT

Refer to Appendix - EUT Photos

## TEST REPORT

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### 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.
3. The report shall not be partially reproduced without the written consent of the Laboratory.
4. This report is invalid if transferred, altered or tampered with in any form without authorization.
5. The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.
6. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

\*\*\*\*\* END OF REPORT \*\*\*\*\*