

# Test Report

**Report No.** : MTi250331025-0101E2  
**Date of issue** : 2025-04-25  
**Applicant** : Shenzhen ShengJieTong Technology Co., Ltd  
**Product** : Wireless Microphone  
**Model(s)** : K61, K60  
**FCC ID** : 2A6Q3-K61

**Shenzhen Microtest Co., Ltd.**

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|                                  |                                                                                                                                                             |                   |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <b>Test Result Certification</b> |                                                                                                                                                             |                   |
| Applicant                        | Shenzhen ShengJieTong Technology Co., Ltd                                                                                                                   |                   |
| Applicant Address                | Floor B, 5th Floor, Building 2, Zone B, Tangxi Second Industrial Zone, No. 21, Xijing Road, Gushu Community Xixiang Street, Baoan District, Shenzhen, China |                   |
| Manufacturer                     | Shenzhen ShengJieTong Technology Co., Ltd                                                                                                                   |                   |
| Manufacturer Address             | Floor B, 5th Floor, Building 2, Zone B, Tangxi Second Industrial Zone, No. 21, Xijing Road, Gushu Community Xixiang Street, Baoan District, Shenzhen, China |                   |
| <b>Product description</b>       |                                                                                                                                                             |                   |
| Product name                     | Wireless Microphone                                                                                                                                         |                   |
| Trademark                        | N/A                                                                                                                                                         |                   |
| Model name                       | K61                                                                                                                                                         |                   |
| Series Model(s)                  | K60                                                                                                                                                         |                   |
| Standards                        | 47 CFR Part 15.247                                                                                                                                          |                   |
| Test Method                      | ANSI C63.10-2013<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                              |                   |
| <b>Testing Information</b>       |                                                                                                                                                             |                   |
| Date of test                     | 2025-04-16 to 2025-04-25                                                                                                                                    |                   |
| Test result                      | Pass                                                                                                                                                        |                   |
| Prepared by:                     | James Qin                                                                                                                                                   | <i>James Qin</i>  |
| Reviewed by:                     | David Lee                                                                                                                                                   | <i>David. Lee</i> |
| Approved by:                     | Lewis Lian                                                                                                                                                  | <i>Lewis Lian</i> |

## 1 General Description

### 1.1 Description of the EUT

|                            |                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------|
| Product name:              | Wireless Microphone                                                                  |
| Model name:                | K61                                                                                  |
| Series Model(s):           | K60                                                                                  |
| Model difference:          | All the models are the same circuit and module, except the model name.               |
| Electrical rating:         | Input: DC 5V<br>Charging case Battery: DC 3.7V, 300mAh<br>Microphone: DC 3.7V, 60mAh |
| Accessories:               | N/A                                                                                  |
| Hardware version:          | V1.0                                                                                 |
| Software version:          | V1.0                                                                                 |
| Test sample(s) number:     | MTi250331025-01-R001                                                                 |
| <b>RF specification</b>    |                                                                                      |
| Bluetooth version:         | V5.3                                                                                 |
| Operating frequency range: | 2402-2480 MHz                                                                        |
| Channel number:            | 40                                                                                   |
| Modulation type:           | GFSK                                                                                 |
| Antenna(s) type:           | Ceramic                                                                              |
| Antenna(s) gain:           | 1.24dBi                                                                              |

### 1.2 Description of test modes

| No.   | Emission test modes |
|-------|---------------------|
| Mode1 | TX-GFSK-1Mbps       |
| Mode2 | TX-GFSK-2Mbps       |

#### 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            |

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|   |      |    |      |    |      |    |      |
|---|------|----|------|----|------|----|------|
| 6 | 2414 | 16 | 2434 | 26 | 2454 | 36 | 2474 |
| 7 | 2416 | 17 | 2436 | 27 | 2456 | 37 | 2476 |
| 8 | 2418 | 18 | 2438 | 28 | 2458 | 38 | 2478 |
| 9 | 2420 | 19 | 2440 | 29 | 2460 | 39 | 2480 |

## Test Channel List

**Operation Band: 2400-2483.5 MHz**

| 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: FCC Assist 1.0.2.2

For power setting, refer to below table.

| Mode | 2402MHz | 2440MHz | 2480MHz |
|------|---------|---------|---------|
| 1M   | default | default | default |
| 2M   | default | default | default |

**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**

| Support equipment list |            |            |              |
|------------------------|------------|------------|--------------|
| Description            | Model      | Serial No. | Manufacturer |
| /                      | /          | /          | /            |
| Support cable list     |            |            |              |
| Description            | Length (m) | From       | To           |
| /                      | /          | /          | /            |

**1.5 Measurement uncertainty**

| Measurement                              | Uncertainty |
|------------------------------------------|-------------|
| Occupied channel bandwidth               | ±3 %        |
| RF output power, conducted               | ±1 dB       |
| Power Spectral Density, conducted        | ±1 dB       |
| Unwanted Emissions, conducted            | ±1 dB       |
| 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.

**2 Summary of Test Result**

| No. | Item                                                      | Standard           | Requirement                      | Result |
|-----|-----------------------------------------------------------|--------------------|----------------------------------|--------|
| 1   | Antenna requirement                                       | 47 CFR Part 15.247 | 47 CFR 15.203                    | Pass   |
| 2   | 6dB Bandwidth                                             | 47 CFR Part 15.247 | 47 CFR 15.247(a)(2)              | Pass   |
| 3   | Maximum Conducted Output Power                            | 47 CFR Part 15.247 | 47 CFR 15.247(b)(3)              | Pass   |
| 4   | Power Spectral Density                                    | 47 CFR Part 15.247 | 47 CFR 15.247(e)                 | Pass   |
| 5   | RF conducted spurious emissions and band edge measurement | 47 CFR Part 15.247 | 47 CFR 15.247(d)                 | Pass   |
| 6   | Band edge emissions (Radiated)                            | 47 CFR Part 15.247 | 47 CFR 15.247(d), 15.209, 15.205 | Pass   |
| 7   | Radiated emissions (below 1GHz)                           | 47 CFR Part 15.247 | 47 CFR 15.247(d), 15.209, 15.205 | Pass   |
| 8   | Radiated emissions (above 1GHz)                           | 47 CFR Part 15.247 | 47 CFR 15.247(d), 15.209, 15.205 | Pass   |

**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                                                                                                                               |

## 4 List of test equipment

| No.                                                                                                                      | Equipment                            | Manufacturer    | Model       | Serial No. | Cal. date  | Cal. Due   |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------|-------------|------------|------------|------------|
| 6dB Bandwidth<br>Maximum Conducted Output Power<br>Power Spectral Density<br>Emissions in non-restricted frequency bands |                                      |                 |             |            |            |            |
| 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 |
| Band edge emissions (Radiated)<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       | 2023-06-17 | 2025-06-16 |
| 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      | 2023-06-17 | 2025-06-16 |
| 7                                                                                                                        | Pre-amplifier                        | Space-Dtronics  | EWLAN1840 G | 210405001  | 2025-03-19 | 2026-03-18 |
| Emissions in frequency bands (below 1GHz)                                                                                |                                      |                 |             |            |            |            |
| 1                                                                                                                        | EMI Test Receiver                    | Rohde&schwarz   | ESCI7       | 101166     | 2025-03-14 | 2026-03-13 |
| 2                                                                                                                        | TRILOG Broadband Antenna             | schwarabeck     | VULB 9163   | 9163-1338  | 2023-06-11 | 2025-06-10 |
| 3                                                                                                                        | Active Loop Antenna                  | Schwarzbeck     | FMZB 1519 B | 00066      | 2024-03-23 | 2026-03-22 |
| 4                                                                                                                        | Amplifier                            | Hewlett-Packard | 8447F       | 3113A06184 | 2025-03-18 | 2026-03-17 |

## 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.<br>The EUT complies with the requirement of FCC PART 15.203. |
|--------------------------------------------------------------------------------------------------------------|

## 6 Radio Spectrum Matter Test Results (RF)

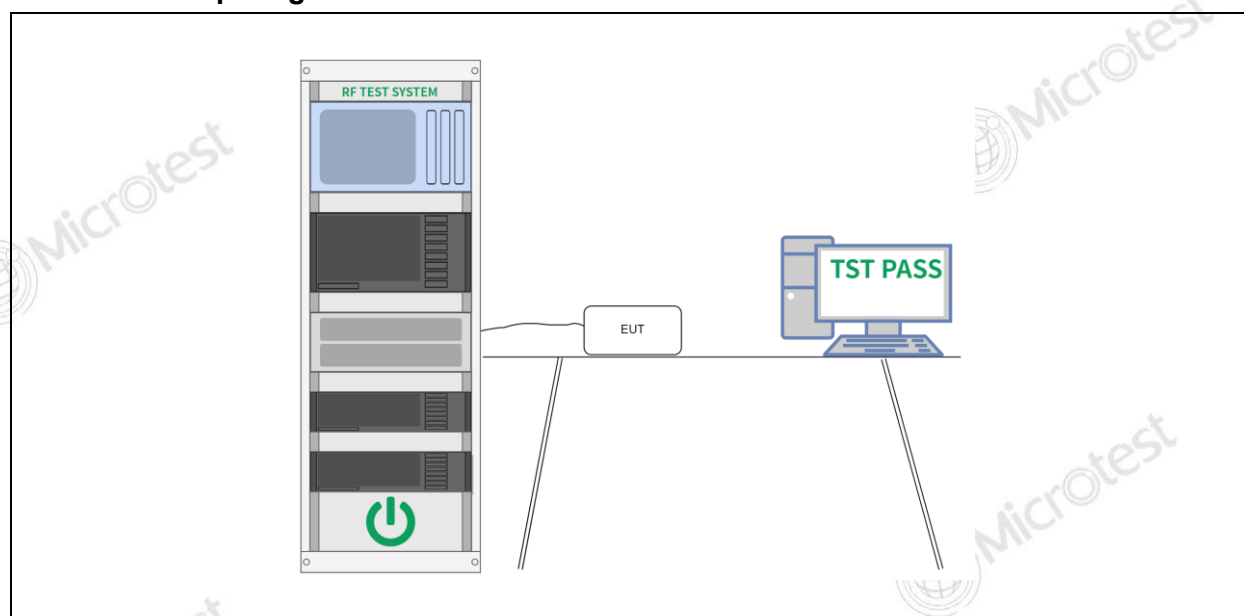
### 6.1 6dB Bandwidth

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR 15.247(a)(2)                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Test Limit:       | Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.                                                                                                                                                                                                                                                                        |
| Test Method:      | ANSI C63.10-2013, section 11.8<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                      |
| Procedure:        | a) Set RBW = 100 kHz.<br>b) Set the VBW $\geq [3 \times \text{RBW}]$ .<br>c) Detector = peak.<br>d) Trace mode = max hold.<br>e) Sweep = auto couple.<br>f) Allow the trace to stabilize.<br>g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission. |

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

|                        |              |           |      |                       |         |
|------------------------|--------------|-----------|------|-----------------------|---------|
| Operating Environment: |              |           |      |                       |         |
| Temperature:           | 25 °C        | Humidity: | 59 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:         | Mode1, Mode2 |           |      |                       |         |
| Final test mode:       | Mode1, Mode2 |           |      |                       |         |

#### 6.1.2 Test Setup Diagram:



#### 6.1.3 Test Data:

Please Refer to Appendix for Details.

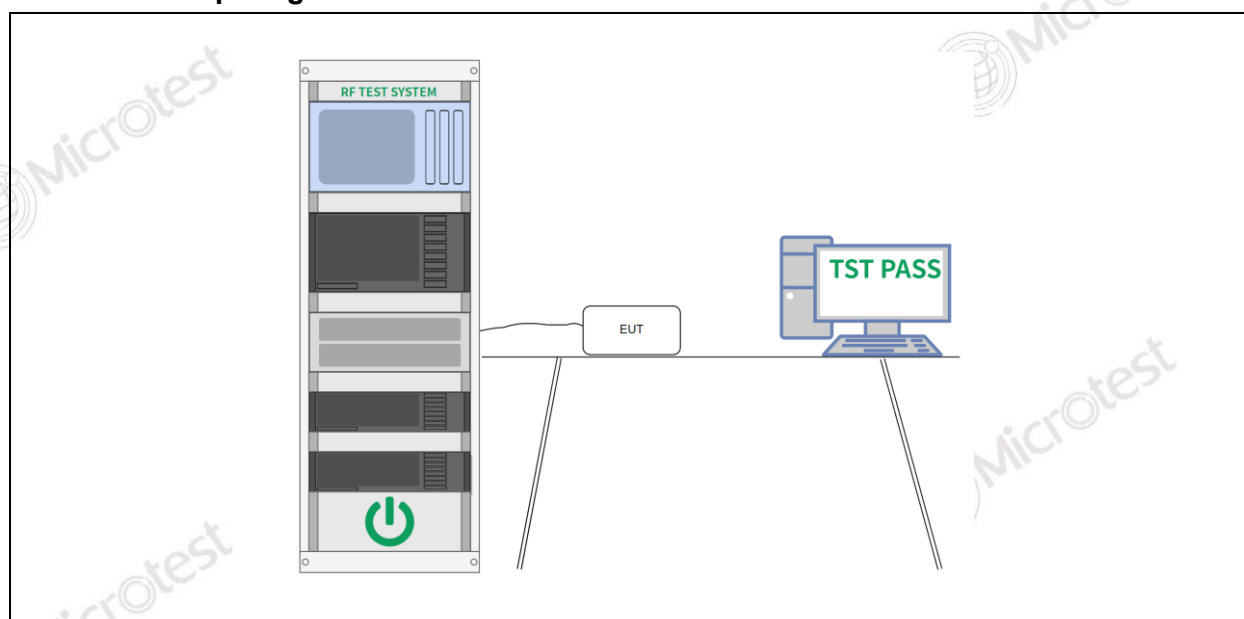
## 6.2 Maximum Conducted Output Power

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR 15.247(b)(3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Test Limit:       | Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode. |
| Test Method:      | ANSI C63.10-2013, section 11.9.1<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Procedure:        | ANSI C63.10-2013, section 11.9.1.1 Maximum peak conducted output power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

### 6.2.1 E.U.T. Operation:

|                        |              |           |      |                       |         |
|------------------------|--------------|-----------|------|-----------------------|---------|
| Operating Environment: |              |           |      |                       |         |
| Temperature:           | 25 °C        | Humidity: | 59 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:         | Mode1, Mode2 |           |      |                       |         |
| Final test mode:       | Mode1, Mode2 |           |      |                       |         |

### 6.2.2 Test Setup Diagram:



### 6.2.3 Test Data:

Please Refer to Appendix for Details.

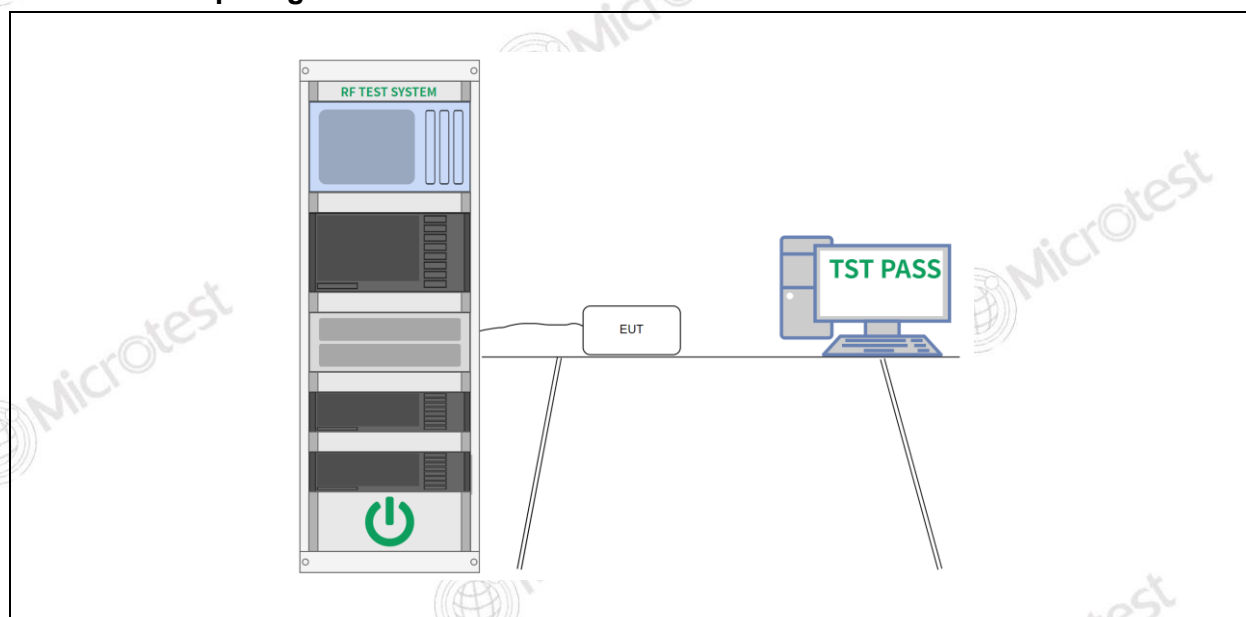
## 6.3 Power Spectral Density

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR 15.247(e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test Limit:       | Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density. |
| Test Method:      | ANSI C63.10-2013, section 11.10<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                             |
| Procedure:        | ANSI C63.10-2013, section 11.10.2, Maximum power spectral density level in the fundamental emission                                                                                                                                                                                                                                                                                                                                                                                       |

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

|                        |              |           |      |                       |         |
|------------------------|--------------|-----------|------|-----------------------|---------|
| Operating Environment: |              |           |      |                       |         |
| Temperature:           | 25 °C        | Humidity: | 59 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:         | Mode1, Mode2 |           |      |                       |         |
| Final test mode:       | Mode1, Mode2 |           |      |                       |         |

### 6.3.2 Test Setup Diagram:



### 6.3.3 Test Data:

Please Refer to Appendix for Details.

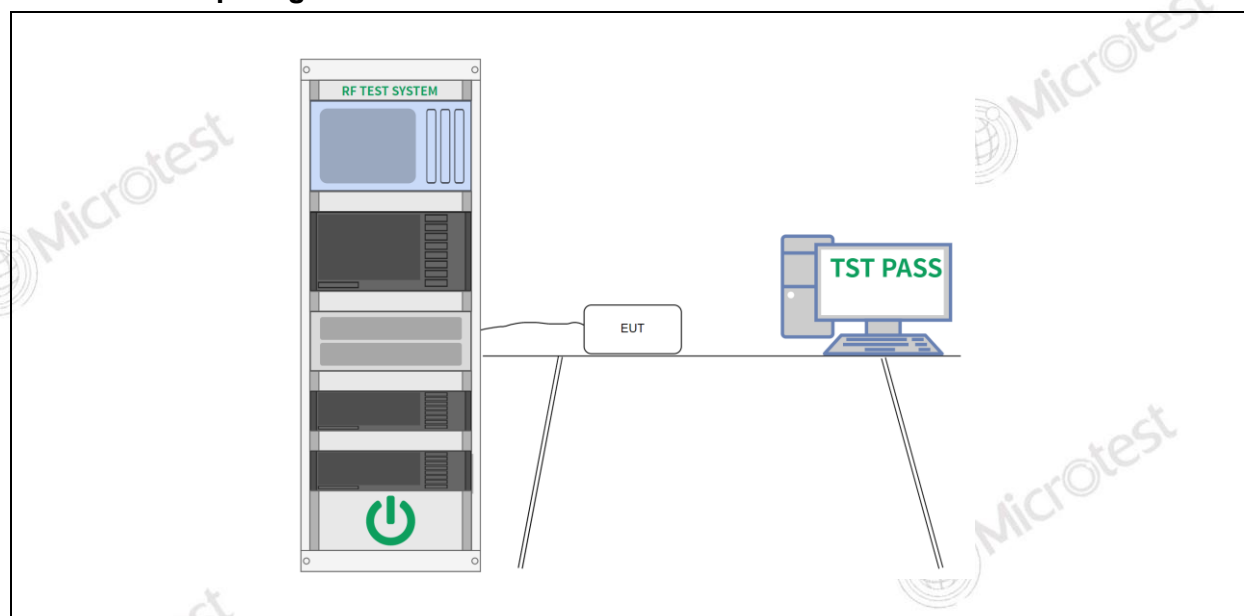
## 6.4 RF conducted spurious emissions and band edge measurement

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR 15.247(d)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test Limit:       | Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. |
| Test Method:      | ANSI C63.10-2013 section 11.11<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Procedure:        | ANSI C63.10-2013<br>Section 11.11.1, Section 11.11.2, Section 11.11.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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

|                        |              |           |      |                       |         |
|------------------------|--------------|-----------|------|-----------------------|---------|
| Operating Environment: |              |           |      |                       |         |
| Temperature:           | 25 °C        | Humidity: | 59 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:         | Mode1, Mode2 |           |      |                       |         |
| Final test mode:       | Mode1, Mode2 |           |      |                       |         |

### 6.4.2 Test Setup Diagram:



### 6.4.3 Test Data:

Please Refer to Appendix for Details.

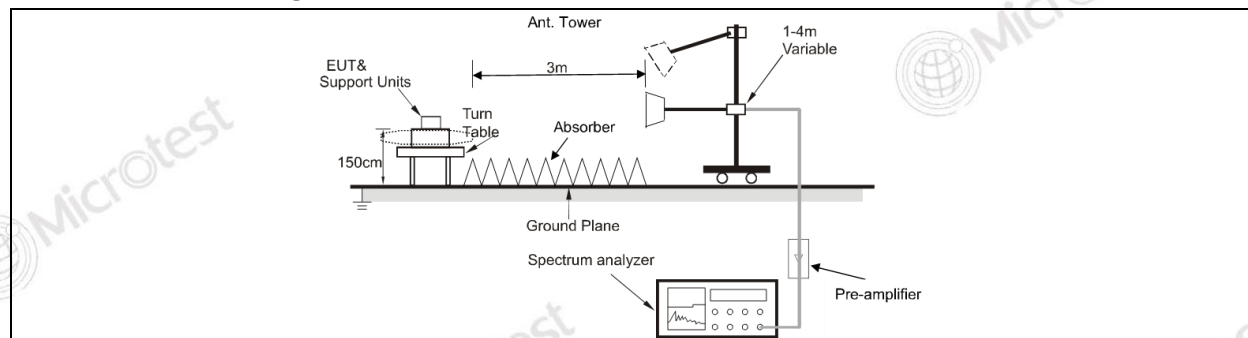
## 6.5 Band edge emissions (Radiated)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                         |                                   |                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)). |                                   |                               |
| Test Limit:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 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                             |
| ** 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. In the emission table above, the tighter limit applies at the band edges. 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. |                                                                                                                                                                                                                         |                                   |                               |
| Test Method:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ANSI C63.10-2013 section 6.10<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                             |                                   |                               |
| Procedure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ANSI C63.10-2013 section 6.10.5.2                                                                                                                                                                                       |                                   |                               |

### 6.5.1 E.U.T. Operation:

|                                                                                                                      |         |                                                                                                                |      |                       |         |
|----------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------|------|-----------------------|---------|
| Operating Environment:                                                                                               |         |                                                                                                                |      |                       |         |
| Temperature:                                                                                                         | 24.6 °C | Humidity:                                                                                                      | 56 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:                                                                                                       |         | Mode1, Mode2                                                                                                   |      |                       |         |
| Final test mode:                                                                                                     |         | All of the listed pre-test mode were tested, only the data of the worst mode (Mode1) is recorded in the report |      |                       |         |
| Note:<br>The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported. |         |                                                                                                                |      |                       |         |

### 6.5.2 Test Setup Diagram:



## 6.5.3 Test Data:

Mode1 / Polarization: Horizontal / CH: L

| No. Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|---------|----------|---------------|----------------|--------------|--------|--------|----------|
|         | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector |
| 1       | 2310.000 | 48.27         | -4.83          | 43.44        | 74.00  | -30.56 | peak     |
| 2       | 2310.000 | 37.58         | -4.83          | 32.75        | 54.00  | -21.25 | AVG      |
| 3       | 2390.000 | 50.97         | -4.31          | 46.66        | 74.00  | -27.34 | peak     |
| 4 *     | 2390.000 | 40.35         | -4.31          | 36.04        | 54.00  | -17.96 | AVG      |

Mode1 / Polarization: Vertical / CH: L

| No. Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|---------|----------|---------------|----------------|--------------|--------|--------|----------|
|         | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector |
| 1       | 2310.000 | 47.02         | -4.83          | 42.19        | 74.00  | -31.81 | peak     |
| 2       | 2310.000 | 37.58         | -4.83          | 32.75        | 54.00  | -21.25 | AVG      |
| 3       | 2390.000 | 47.19         | -4.31          | 42.88        | 74.00  | -31.12 | peak     |
| 4 *     | 2390.000 | 38.53         | -4.31          | 34.22        | 54.00  | -19.78 | AVG      |

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Mode1 / Polarization: Horizontal / CH: H

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector |
| 1   |     | 2483.500 | 57.73         | -4.21          | 53.52        | 74.00  | -20.48 | peak     |
| 2   | *   | 2483.500 | 51.17         | -4.21          | 46.96        | 54.00  | -7.04  | AVG      |
| 3   |     | 2500.000 | 54.96         | -4.10          | 50.86        | 74.00  | -23.14 | peak     |
| 4   |     | 2500.000 | 45.75         | -4.10          | 41.65        | 54.00  | -12.35 | AVG      |

Mode1 / Polarization: Vertical / CH: H

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector |
| 1   |     | 2483.500 | 50.43         | -4.21          | 46.22        | 74.00  | -27.78 | peak     |
| 2   | *   | 2483.500 | 41.43         | -4.21          | 37.22        | 54.00  | -16.78 | AVG      |
| 3   |     | 2500.000 | 48.47         | -4.10          | 44.37        | 74.00  | -29.63 | peak     |
| 4   |     | 2500.000 | 39.08         | -4.10          | 34.98        | 54.00  | -19.02 | AVG      |

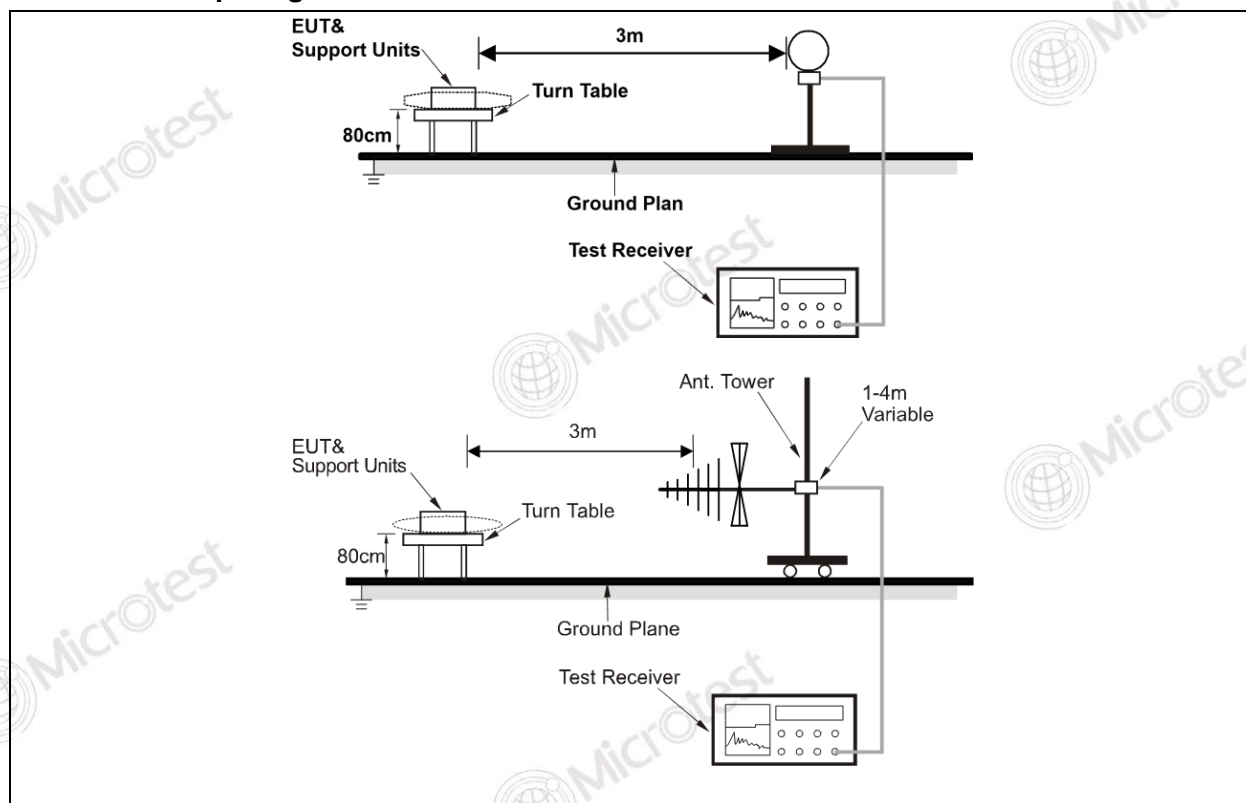
## 6.6 Radiated emissions (below 1GHz)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                          |                                   |                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).` |                                   |                               |
| Test Limit:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 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                             |
| ** 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. In the emission table above, the tighter limit applies at the band edges. 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. |                                                                                                                                                                                                                          |                                   |                               |
| Test Method:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ANSI C63.10-2013 section 6.6.4<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                             |                                   |                               |
| Procedure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ANSI C63.10-2013 section 6.6.4                                                                                                                                                                                           |                                   |                               |

### 6.6.1 E.U.T. Operation:

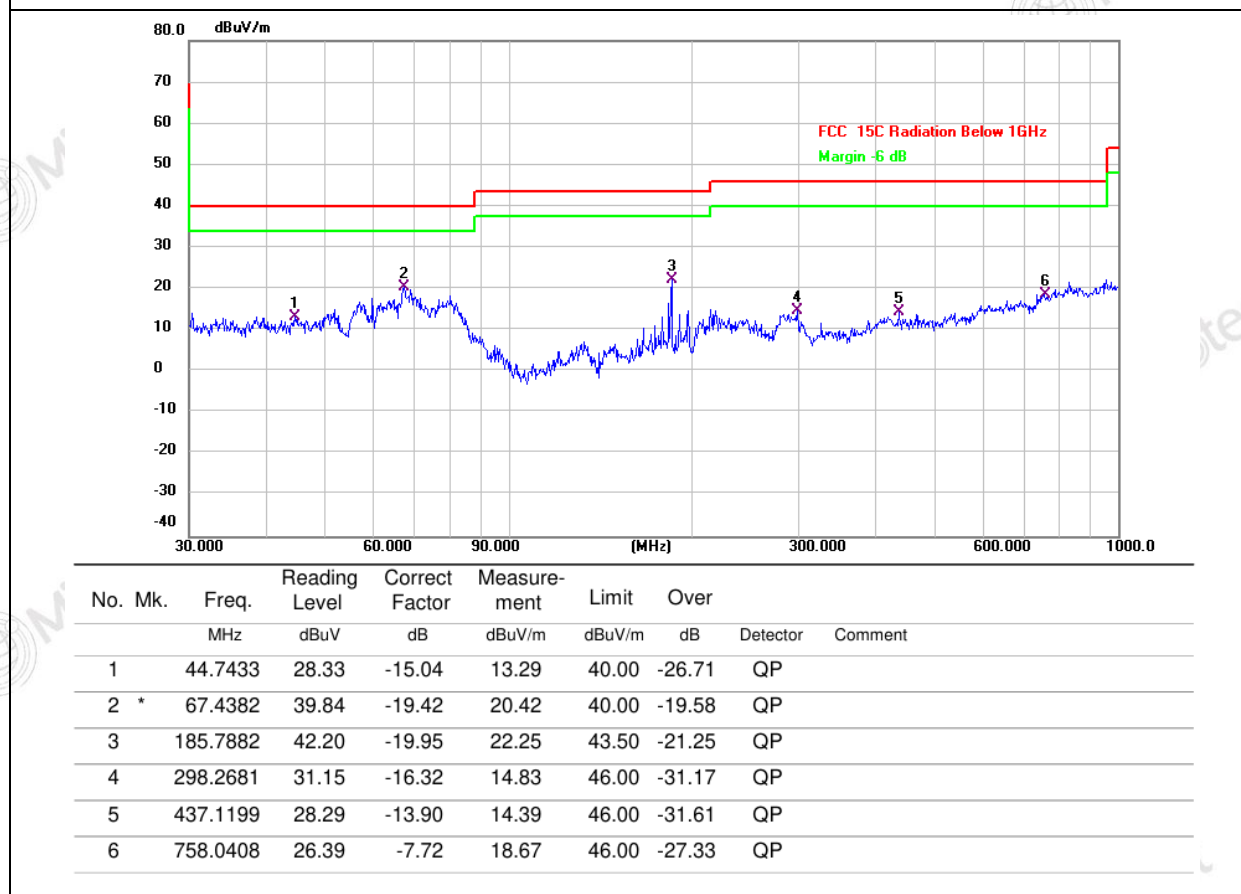
|                                                                                                                                                                                                                                                                                                |         |                                                                                                                |      |                       |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------|------|-----------------------|---------|
| Operating Environment:                                                                                                                                                                                                                                                                         |         |                                                                                                                |      |                       |         |
| Temperature:                                                                                                                                                                                                                                                                                   | 24.6 °C | Humidity:                                                                                                      | 56 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:                                                                                                                                                                                                                                                                                 |         | Mode1, Mode2                                                                                                   |      |                       |         |
| Final test mode:                                                                                                                                                                                                                                                                               |         | All of the listed pre-test mode were tested, only the data of the worst mode (Mode1) is recorded in the report |      |                       |         |
| Note:<br>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. There were no emissions found below 30MHz within 20dB of the limit. |         |                                                                                                                |      |                       |         |

## 6.6.2 Test Setup Diagram:

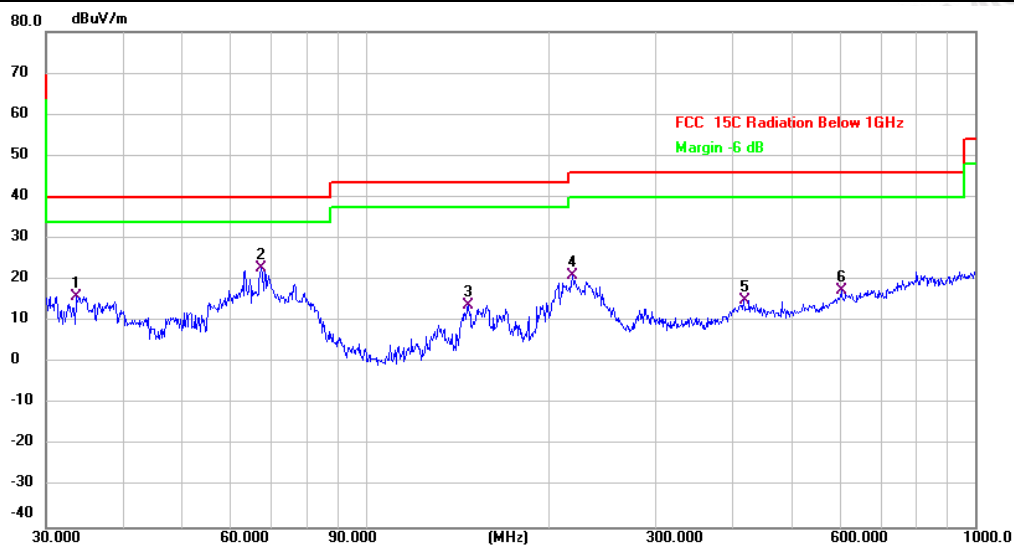


## 6.6.3 Test Data:

Mode1 / Polarization: Horizontal / CH: H



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       | 33.6802      | 41.03                    | -25.03                  | 16.00                      | 40.00           | -24.00     | QP       |         |
| 2 *     | 67.4382      | 43.03                    | -20.25                  | 22.78                      | 40.00           | -17.22     | QP       |         |
| 3       | 147.4036     | 29.66                    | -15.77                  | 13.89                      | 43.50           | -29.61     | QP       |         |
| 4       | 219.0753     | 41.92                    | -20.91                  | 21.01                      | 46.00           | -24.99     | QP       |         |
| 5       | 417.6411     | 29.46                    | -14.28                  | 15.18                      | 46.00           | -30.82     | QP       |         |
| 6       | 603.5392     | 27.76                    | -10.40                  | 17.36                      | 46.00           | -28.64     | QP       |         |

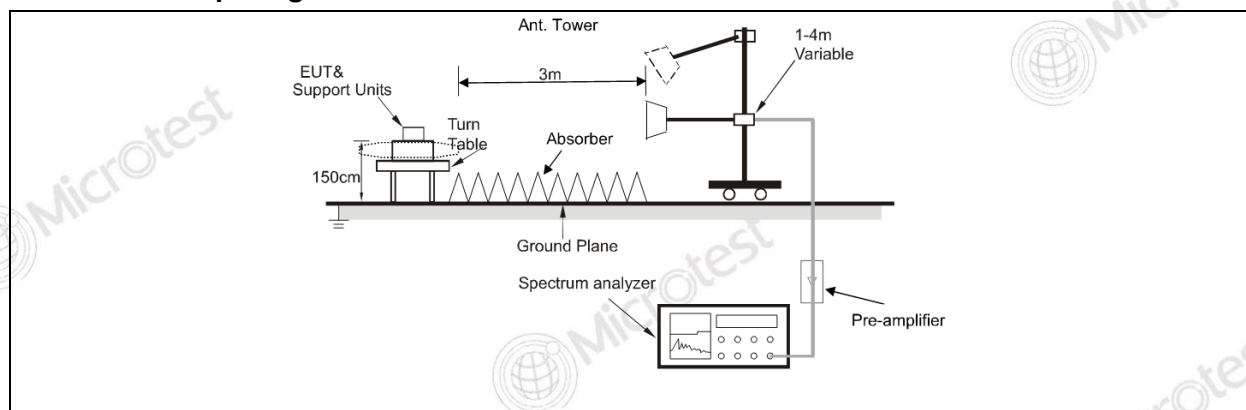
## 6.7 Radiated emissions (above 1GHz)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                          |                                   |                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Refer to 47 CFR 15.247(d), in addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).` |                                   |                               |
| Test Limit:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 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                             |
| ** 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. In the emission table above, the tighter limit applies at the band edges. 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. |                                                                                                                                                                                                                          |                                   |                               |
| Test Method:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ANSI C63.10-2013 section 6.6.4<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                             |                                   |                               |
| Procedure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ANSI C63.10-2013 section 6.6.4                                                                                                                                                                                           |                                   |                               |

### 6.7.1 E.U.T. Operation:

|                                                                                                                                                                                                                                                                |         |                                                                                                                |      |                       |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------|------|-----------------------|---------|
| Operating Environment:                                                                                                                                                                                                                                         |         |                                                                                                                |      |                       |         |
| Temperature:                                                                                                                                                                                                                                                   | 24.6 °C | Humidity:                                                                                                      | 56 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:                                                                                                                                                                                                                                                 |         | Mode1, Mode2                                                                                                   |      |                       |         |
| Final test mode:                                                                                                                                                                                                                                               |         | All of the listed pre-test mode were tested, only the data of the worst mode (Mode1) is recorded in the report |      |                       |         |
| 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. |         |                                                                                                                |      |                       |         |

## 6.7.2 Test Setup Diagram:



## 6.7.3 Test Data:

Mode1 / Polarization: Horizontal / CH: L

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 4804.000 | 44.46         | 0.53           | 44.99       | 74.00  | -29.01 | peak     |
| 2   |     | 4804.000 | 39.85         | 0.53           | 40.38       | 54.00  | -13.62 | AVG      |
| 3   |     | 7206.000 | 42.31         | 7.90           | 50.21       | 74.00  | -23.79 | peak     |
| 4   |     | 7206.000 | 38.67         | 7.90           | 46.57       | 54.00  | -7.43  | AVG      |
| 5   |     | 9608.000 | 45.77         | 8.85           | 54.62       | 74.00  | -19.38 | peak     |
| 6   | *   | 9608.000 | 41.83         | 8.85           | 50.68       | 54.00  | -3.32  | AVG      |

Mode1 / Polarization: Vertical / CH: L

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 4804.000 | 42.63         | 0.53           | 43.16       | 74.00  | -30.84 | peak     |
| 2   |     | 4804.000 | 39.12         | 0.53           | 39.65       | 54.00  | -14.35 | AVG      |
| 3   |     | 7206.000 | 42.62         | 7.90           | 50.52       | 74.00  | -23.48 | peak     |
| 4   |     | 7206.000 | 38.67         | 7.90           | 46.57       | 54.00  | -7.43  | AVG      |
| 5   |     | 9608.000 | 44.72         | 8.85           | 53.57       | 74.00  | -20.43 | peak     |
| 6   | *   | 9608.000 | 40.72         | 8.85           | 49.57       | 54.00  | -4.43  | AVG      |

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Report No.: MTi250331025-0101E2

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   |     | 4880.000 | 42.64         | 0.56           | 43.20       | 74.00  | -30.80 | peak     |
| 2   |     | 4880.000 | 38.09         | 0.56           | 38.65       | 54.00  | -15.35 | AVG      |
| 3   |     | 7320.000 | 42.94         | 7.54           | 50.48       | 74.00  | -23.52 | peak     |
| 4   |     | 7320.000 | 38.15         | 7.54           | 45.69       | 54.00  | -8.31  | AVG      |
| 5   |     | 9760.000 | 46.10         | 9.33           | 55.43       | 74.00  | -18.57 | peak     |
| 6   | *   | 9760.000 | 41.65         | 9.33           | 50.98       | 54.00  | -3.02  | 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   |     | 4880.000 | 44.18         | 0.56           | 44.74       | 74.00  | -29.26 | peak     |
| 2   |     | 4880.000 | 39.79         | 0.56           | 40.35       | 54.00  | -13.65 | AVG      |
| 3   |     | 7320.000 | 42.95         | 7.54           | 50.49       | 74.00  | -23.51 | peak     |
| 4   |     | 7320.000 | 39.03         | 7.54           | 46.57       | 54.00  | -7.43  | AVG      |
| 5   |     | 9760.000 | 43.73         | 9.33           | 53.06       | 74.00  | -20.94 | peak     |
| 6   | *   | 9760.000 | 40.24         | 9.33           | 49.57       | 54.00  | -4.43  | AVG      |

# TEST REPORT

Report No.: MTi250331025-0101E2

Mode1 / Polarization: Horizontal / CH: H

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector |
| 1   |     | 4960.000 | 48.96         | 0.66           | 49.62        | 74.00  | -24.38 | peak     |
| 2   |     | 4960.000 | 43.93         | 0.66           | 44.59        | 54.00  | -9.41  | AVG      |
| 3   |     | 7440.000 | 43.12         | 7.94           | 51.06        | 74.00  | -22.94 | peak     |
| 4   |     | 7440.000 | 38.54         | 7.94           | 46.48        | 54.00  | -7.52  | AVG      |
| 5   |     | 9920.000 | 46.57         | 9.69           | 56.26        | 74.00  | -17.74 | peak     |
| 6   | *   | 9920.000 | 41.31         | 9.69           | 51.00        | 54.00  | -3.00  | AVG      |

Mode1 / Polarization: Vertical / CH: H

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector |
| 1   |     | 4960.000 | 44.58         | 0.66           | 45.24        | 74.00  | -28.76 | peak     |
| 2   |     | 4960.000 | 39.66         | 0.66           | 40.32        | 54.00  | -13.68 | AVG      |
| 3   |     | 7440.000 | 44.02         | 7.94           | 51.96        | 74.00  | -22.04 | peak     |
| 4   |     | 7440.000 | 38.65         | 7.94           | 46.59        | 54.00  | -7.41  | AVG      |
| 5   |     | 9920.000 | 44.91         | 9.69           | 54.60        | 74.00  | -19.40 | peak     |
| 6   | *   | 9920.000 | 39.99         | 9.69           | 49.68        | 54.00  | -4.32  | AVG      |

**Photographs of the test setup**

Refer to Appendix - Test Setup Photos

**Photographs of the EUT**

Refer to Appendix - EUT Photos

# Appendix

**Appendix A: DTS Bandwidth**

## Test Result

| Test Mode | Antenna | Frequency<br>[MHz] | DTS BW<br>[MHz] | Limit<br>[MHz] | Verdict |
|-----------|---------|--------------------|-----------------|----------------|---------|
| BLE_1M    | Ant1    | 2402               | 0.664           | 0.5            | PASS    |
|           |         | 2440               | 0.656           | 0.5            | PASS    |
|           |         | 2480               | 0.676           | 0.5            | PASS    |
| BLE_2M    | Ant1    | 2402               | 1.116           | 0.5            | PASS    |
|           |         | 2440               | 1.152           | 0.5            | PASS    |
|           |         | 2480               | 1.352           | 0.5            | PASS    |

## Test Graphs



# TEST REPORT

Report No.: MTi250331025-0101E2



# TEST REPORT

Report No.: MTi250331025-0101E2

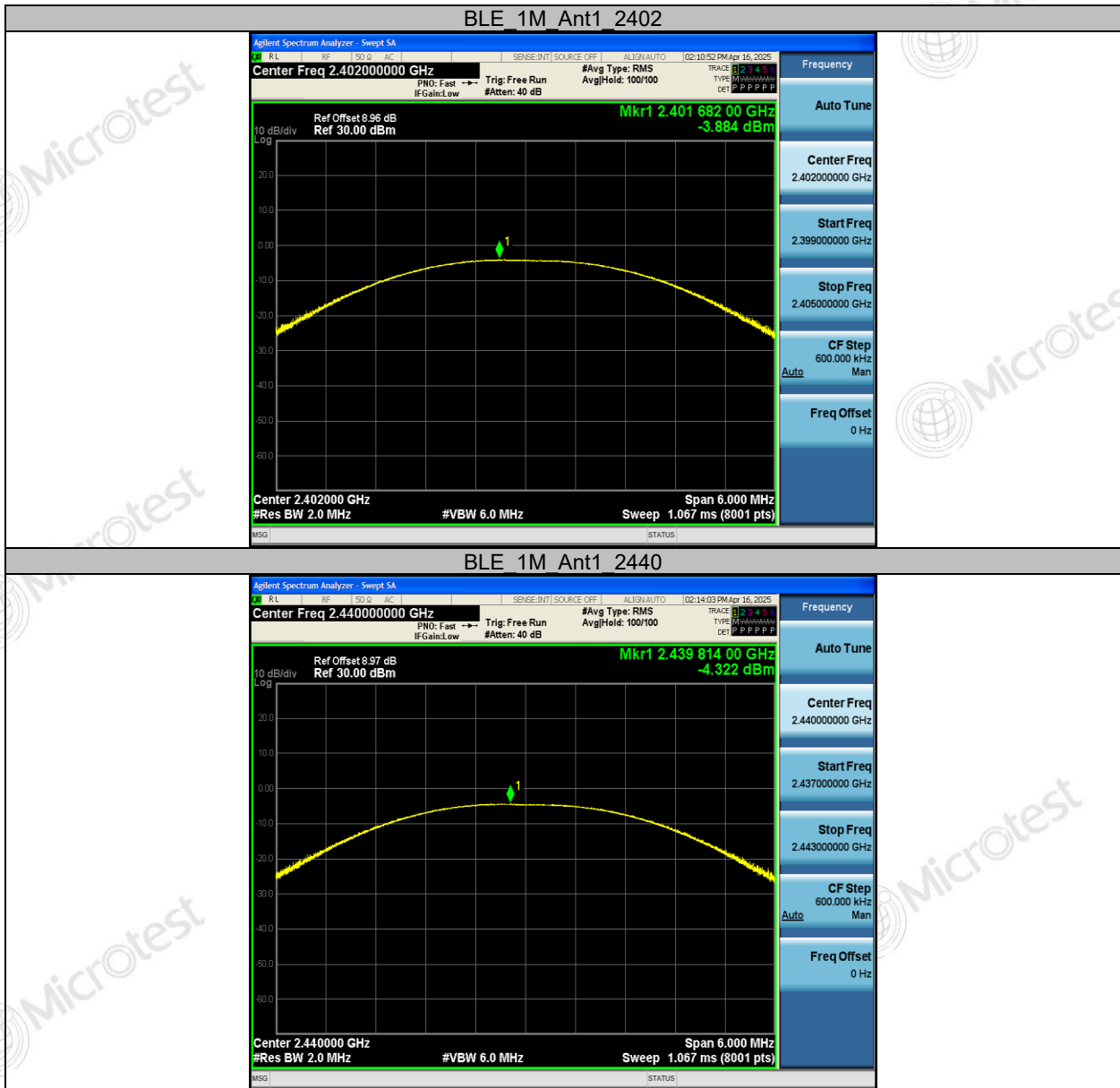


**Appendix B: Maximum conducted output power**

## Test Result-Peak

| Test Mode | Antenna | Frequency<br>[MHz] | Conducted Peak Power<br>[dBm] | Limit<br>[dBm] | Verdict |
|-----------|---------|--------------------|-------------------------------|----------------|---------|
| BLE_1M    | Ant1    | 2402               | -3.88                         | ≤30            | PASS    |
|           |         | 2440               | -4.32                         | ≤30            | PASS    |
|           |         | 2480               | -5.64                         | ≤30            | PASS    |
| BLE_2M    | Ant1    | 2402               | -3.90                         | ≤30            | PASS    |
|           |         | 2440               | -4.06                         | ≤30            | PASS    |
|           |         | 2480               | -5.40                         | ≤30            | PASS    |

## Test Graphs



# TEST REPORT

Report No.: MTi250331025-0101E2



# TEST REPORT

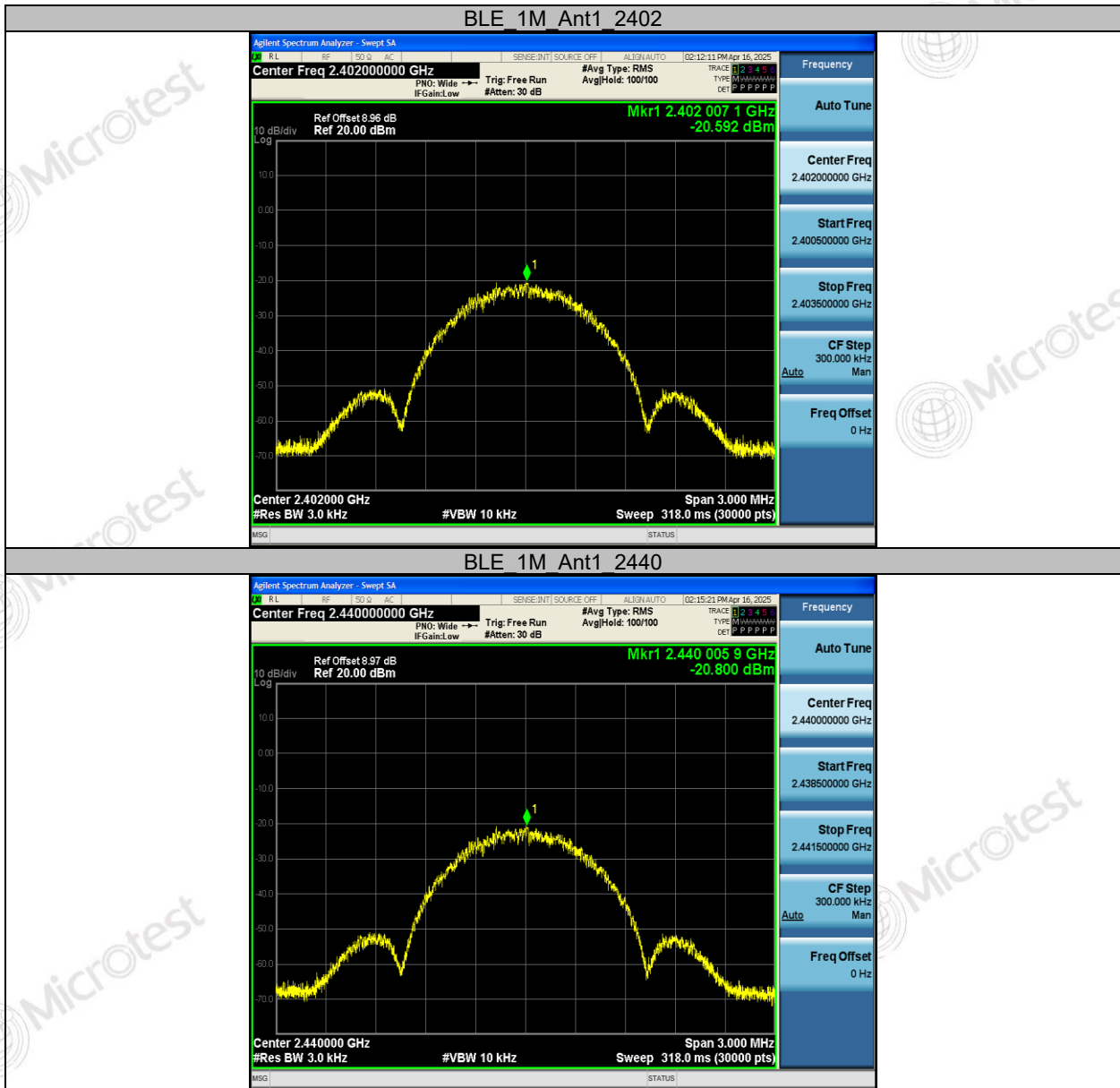
Report No.: MTi250331025-0101E2



**Appendix C: Maximum power spectral density****Test Result**

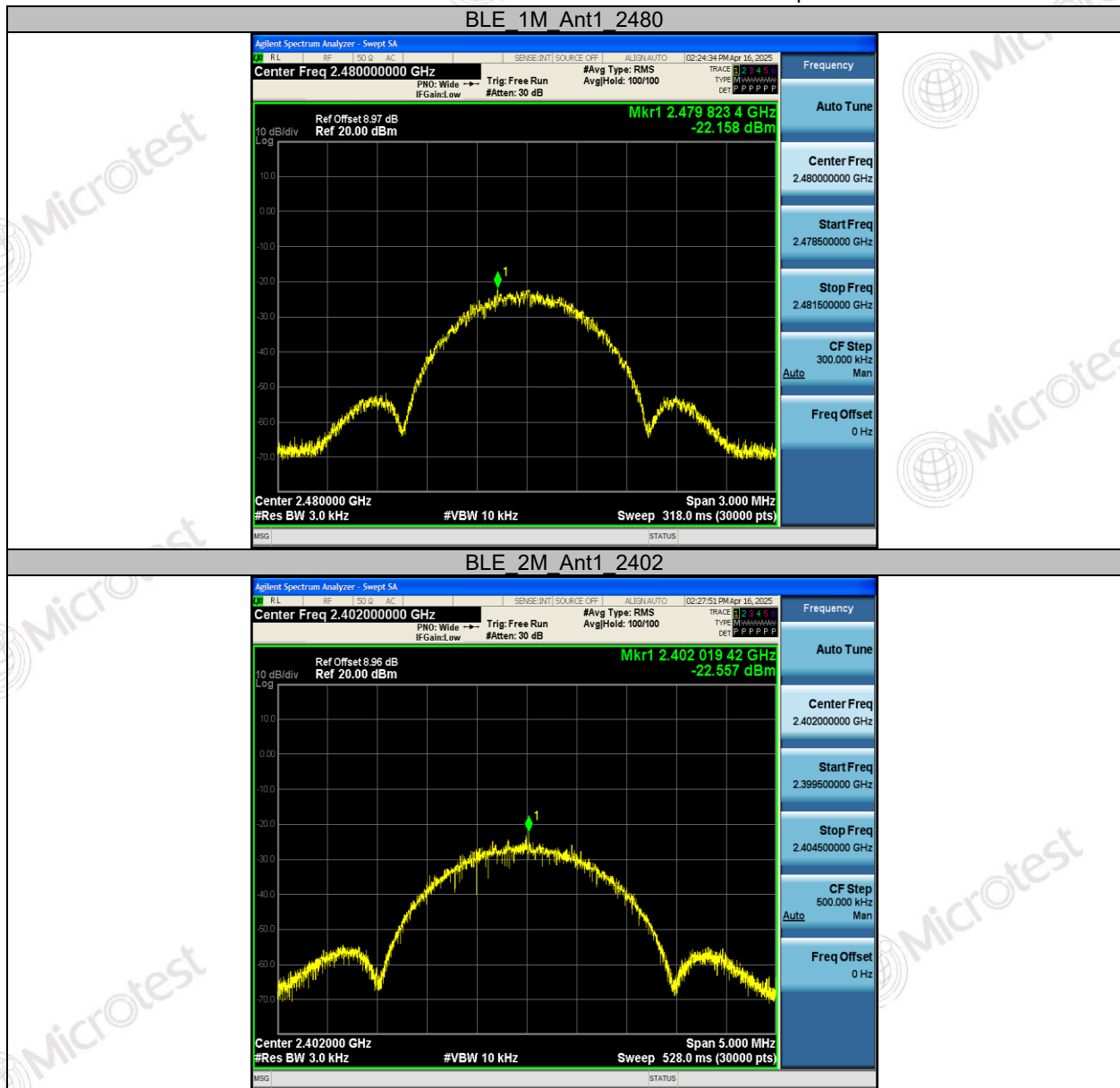
| Test Mode | Antenna | Frequency<br>[MHz] | Result<br>[dBm/3kHz] | Limit<br>[dBm/3kHz] | Verdict |
|-----------|---------|--------------------|----------------------|---------------------|---------|
| BLE_1M    | Ant1    | 2402               | -20.59               | ≤8.00               | PASS    |
|           |         | 2440               | -20.80               | ≤8.00               | PASS    |
|           |         | 2480               | -22.16               | ≤8.00               | PASS    |
| BLE_2M    | Ant1    | 2402               | -22.56               | ≤8.00               | PASS    |
|           |         | 2440               | -23.00               | ≤8.00               | PASS    |
|           |         | 2480               | -24.94               | ≤8.00               | PASS    |

## Test Graphs



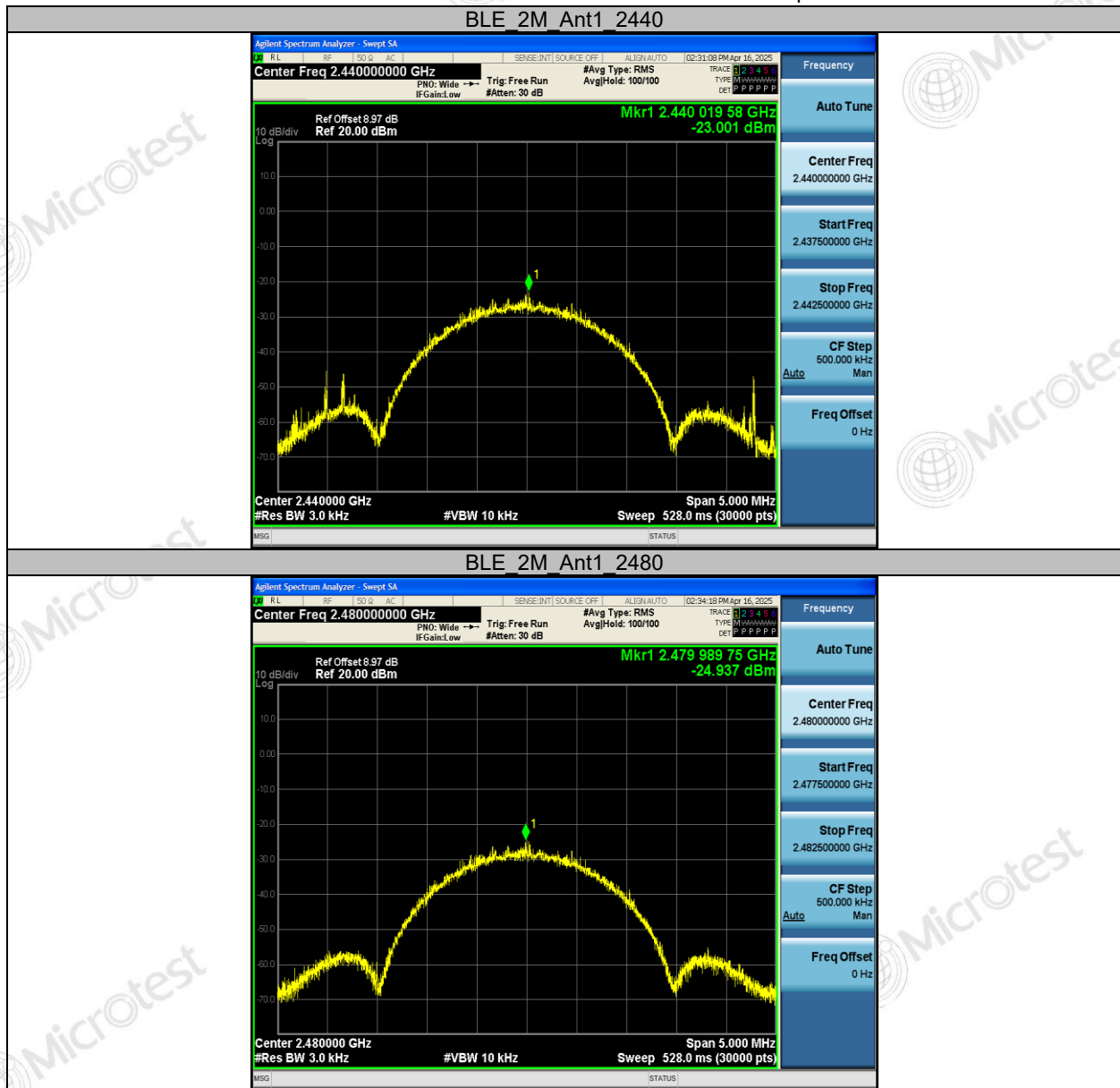
# TEST REPORT

Report No.: MTi250331025-0101E2



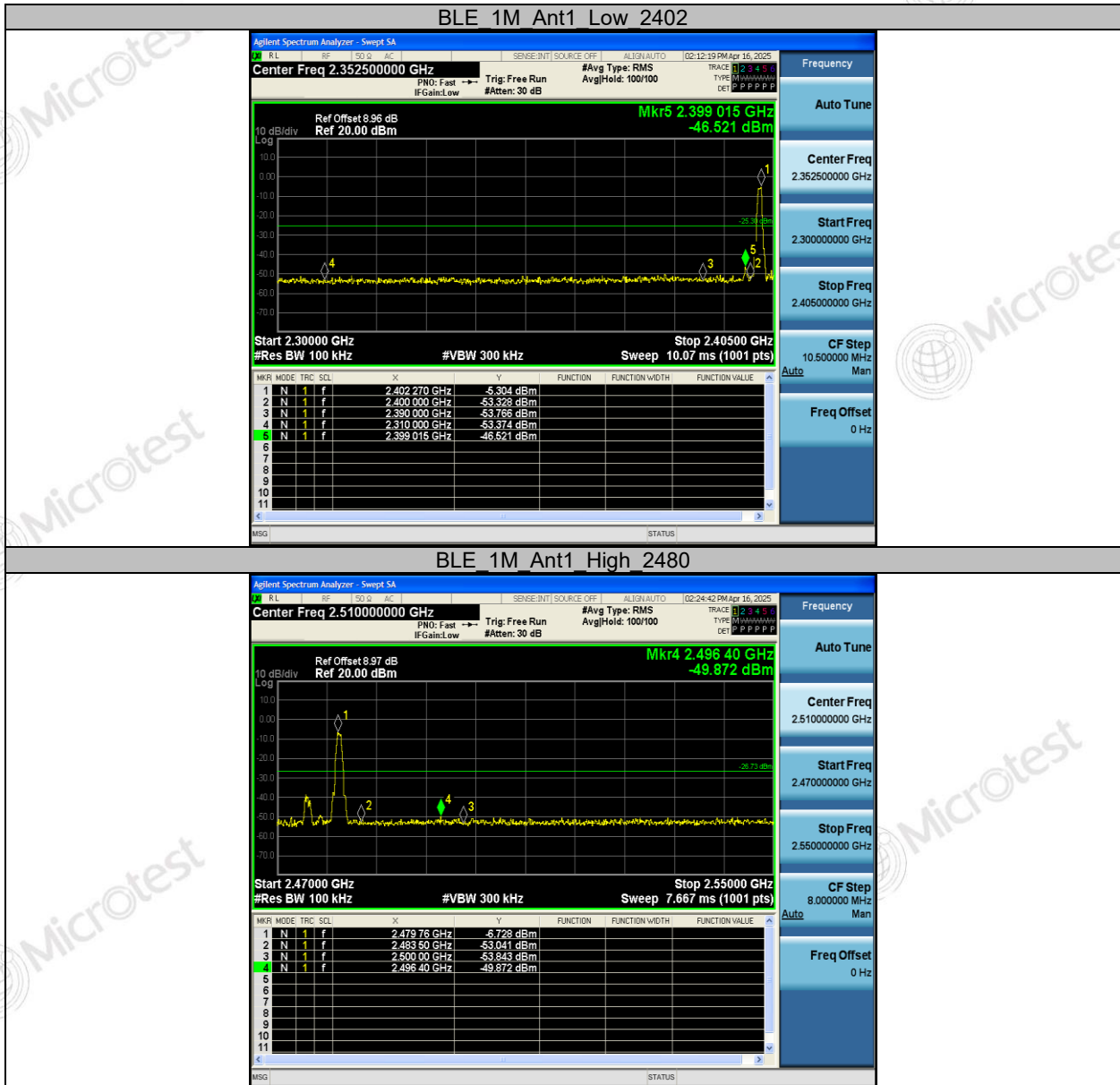
# TEST REPORT

Report No.: MTi250331025-0101E2



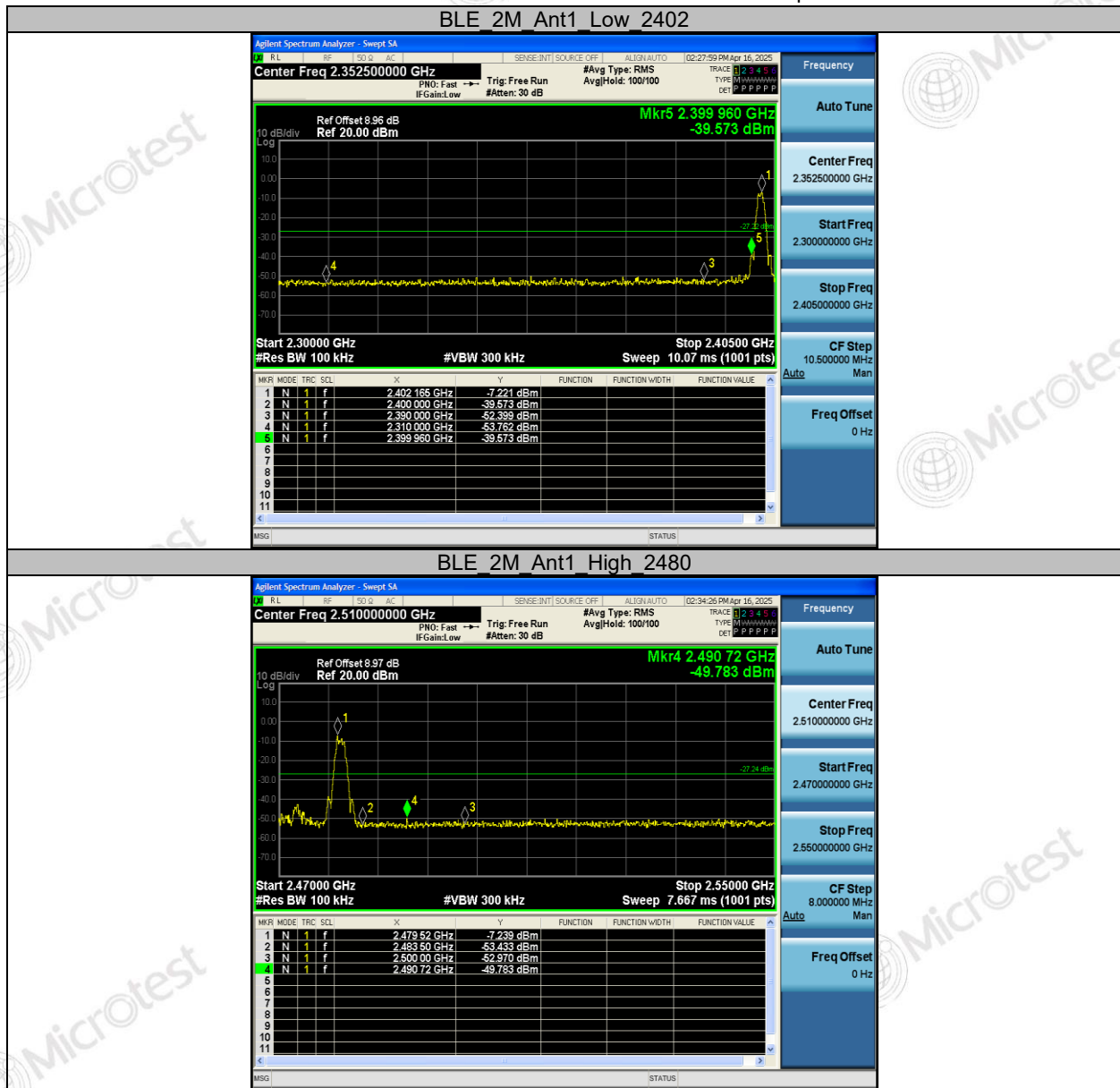
## Appendix D: Band edge measurements

### Test Graphs



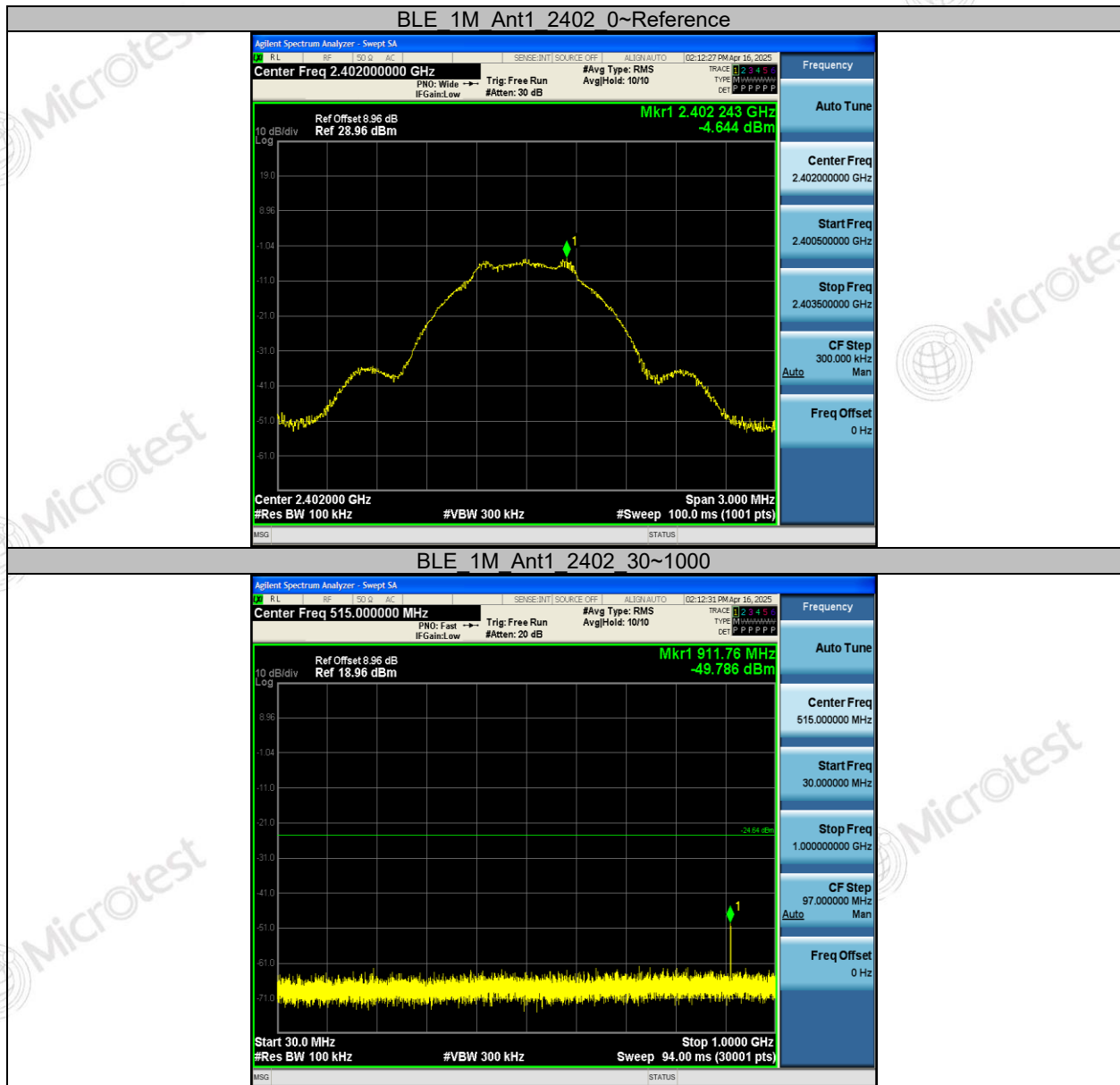
# TEST REPORT

Report No.: MTi250331025-0101E2



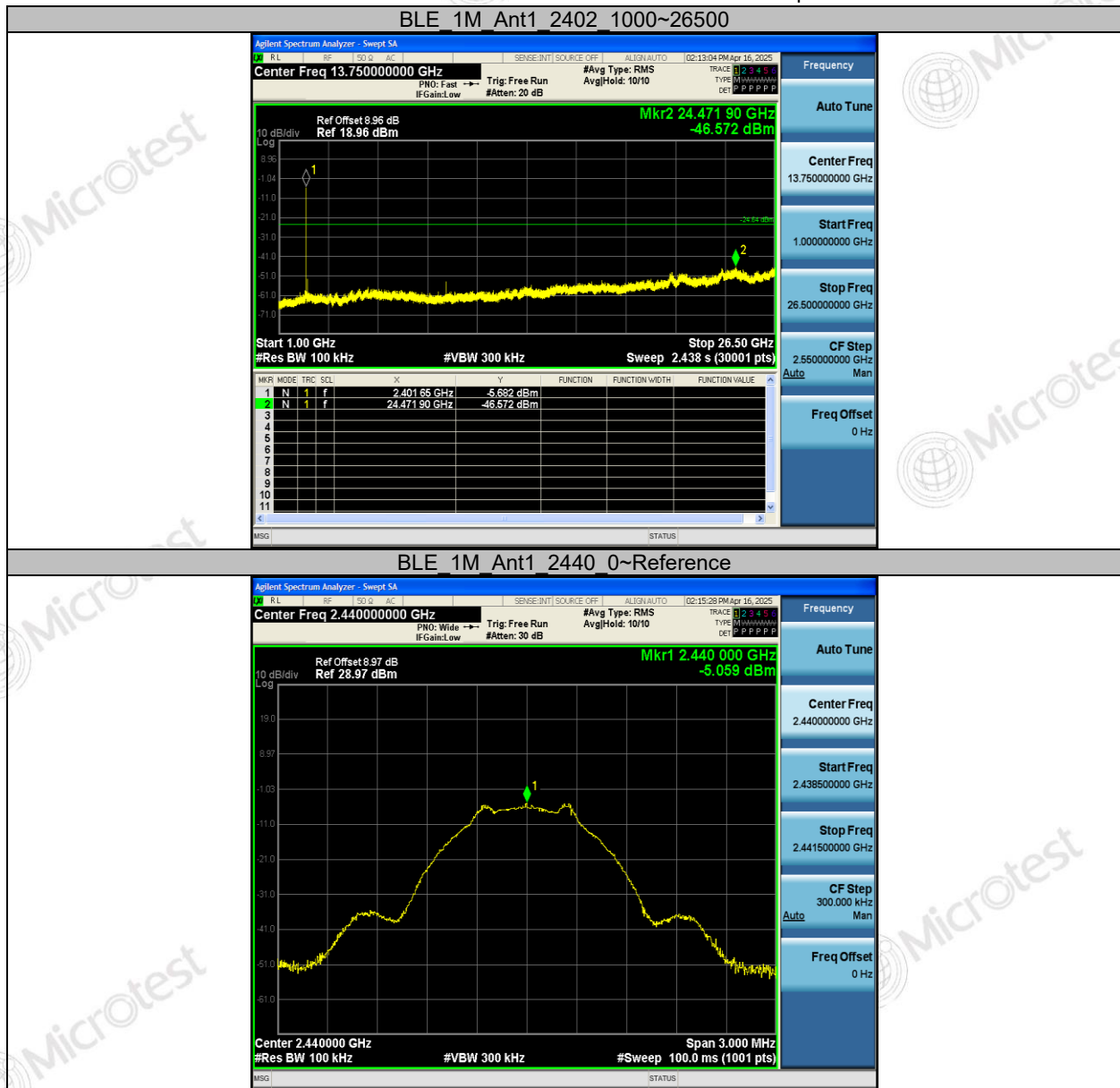
## Appendix E: Conducted Spurious Emission

### Test Graphs



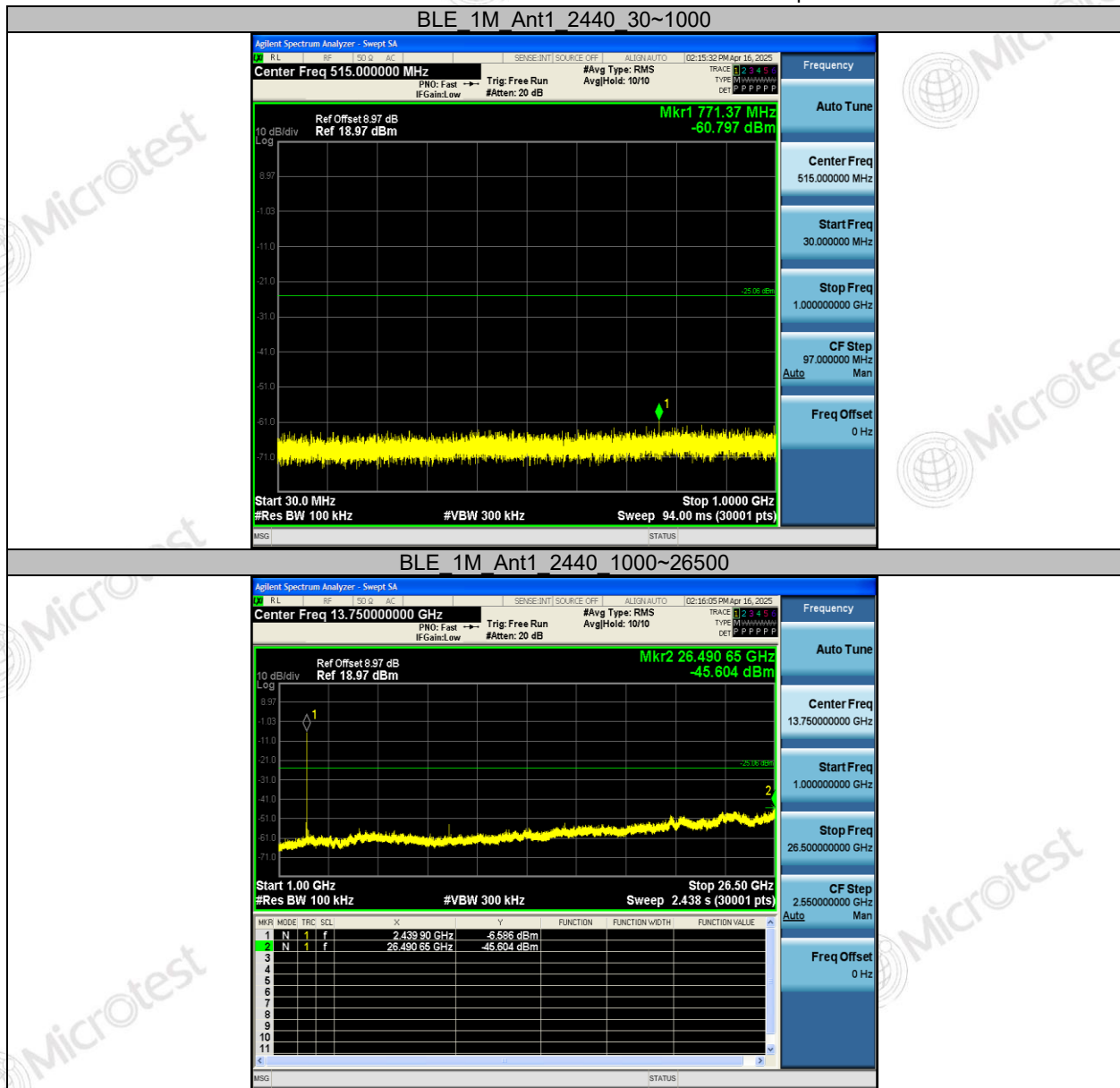
# TEST REPORT

Report No.: MTi250331025-0101E2



# TEST REPORT

Report No.: MTi250331025-0101E2



# TEST REPORT

Report No.: MTi250331025-0101E2



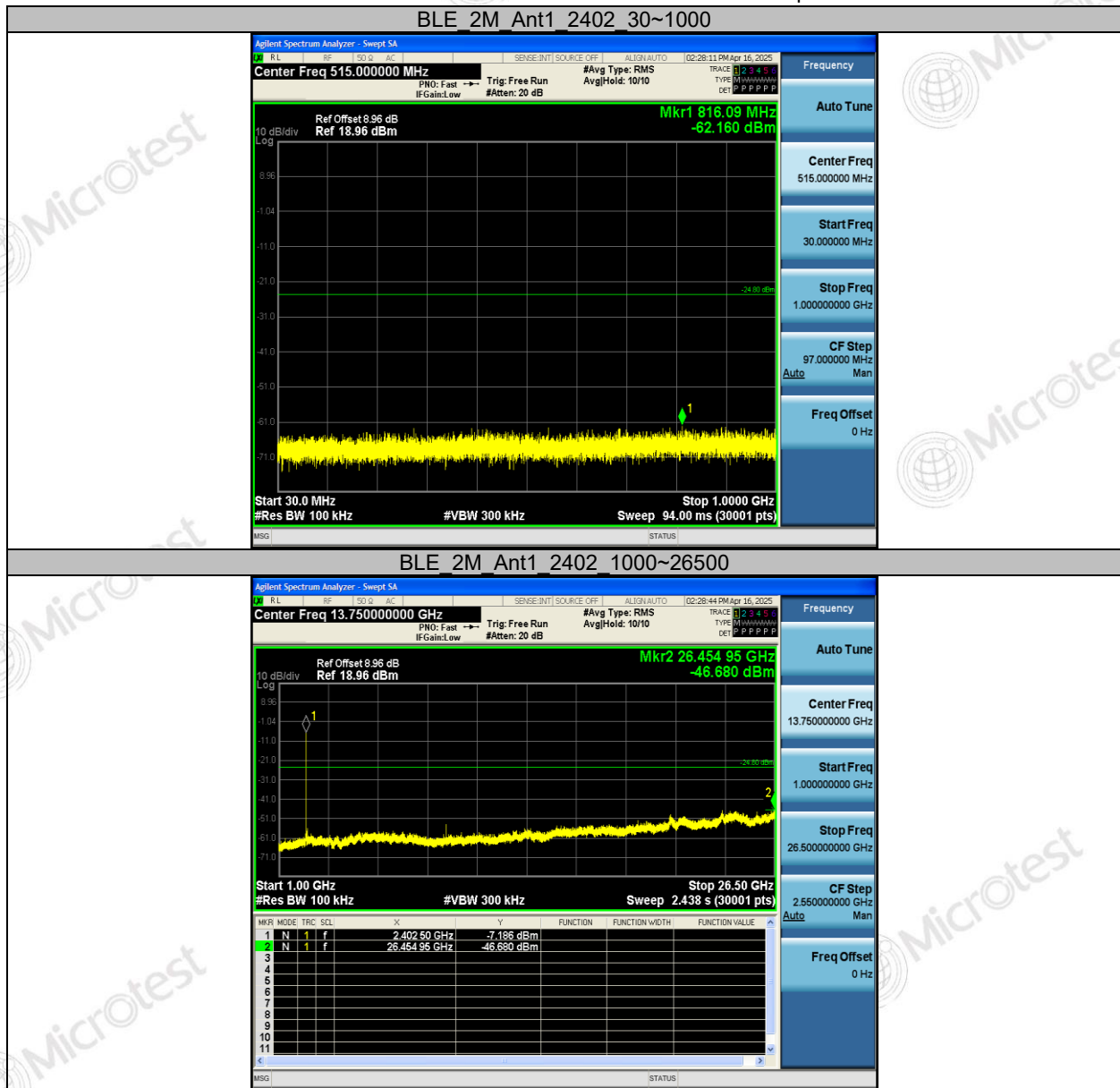
# TEST REPORT

Report No.: MTi250331025-0101E2



# TEST REPORT

Report No.: MTi250331025-0101E2



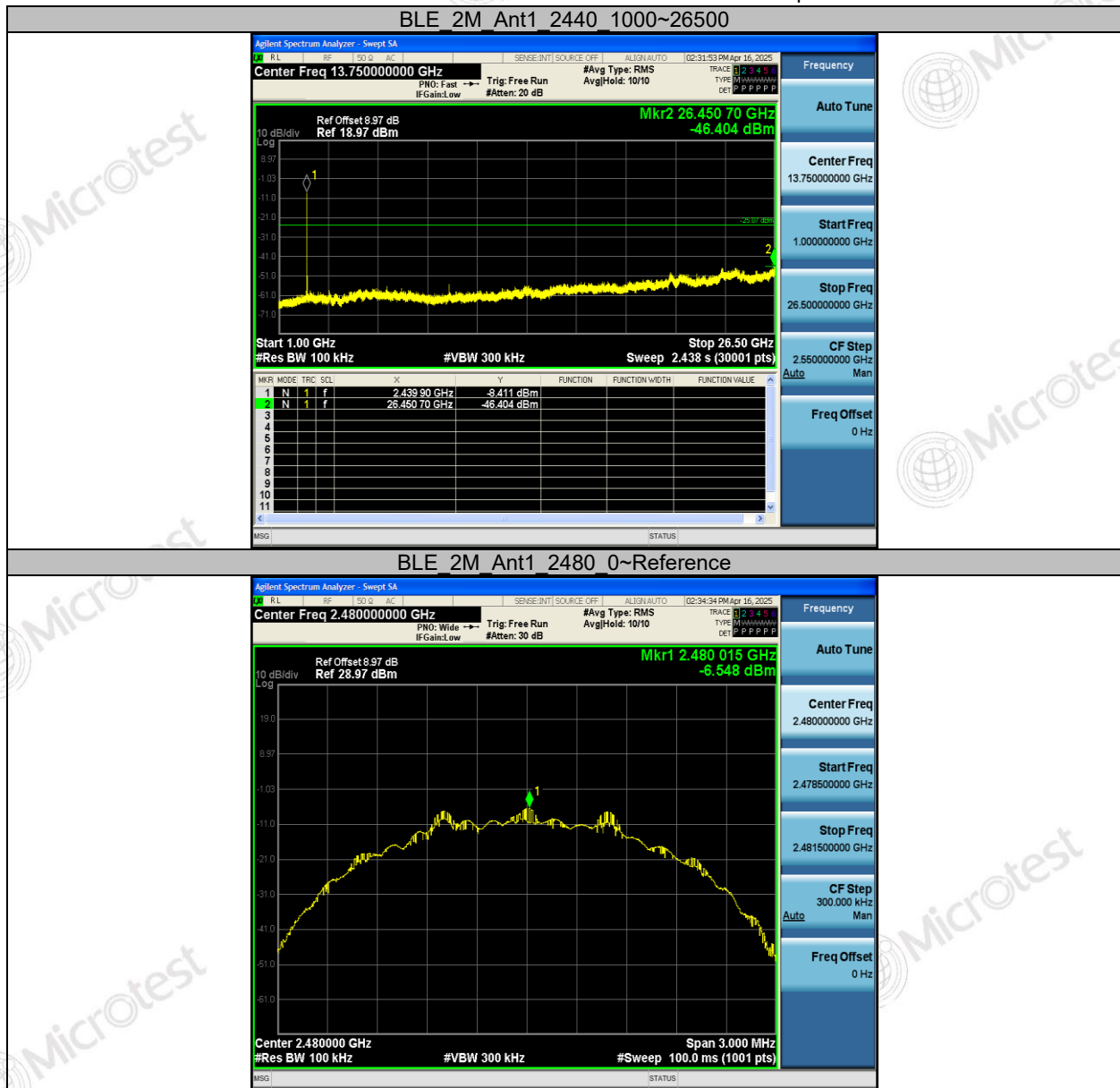
# TEST REPORT

Report No.: MTi250331025-0101E2



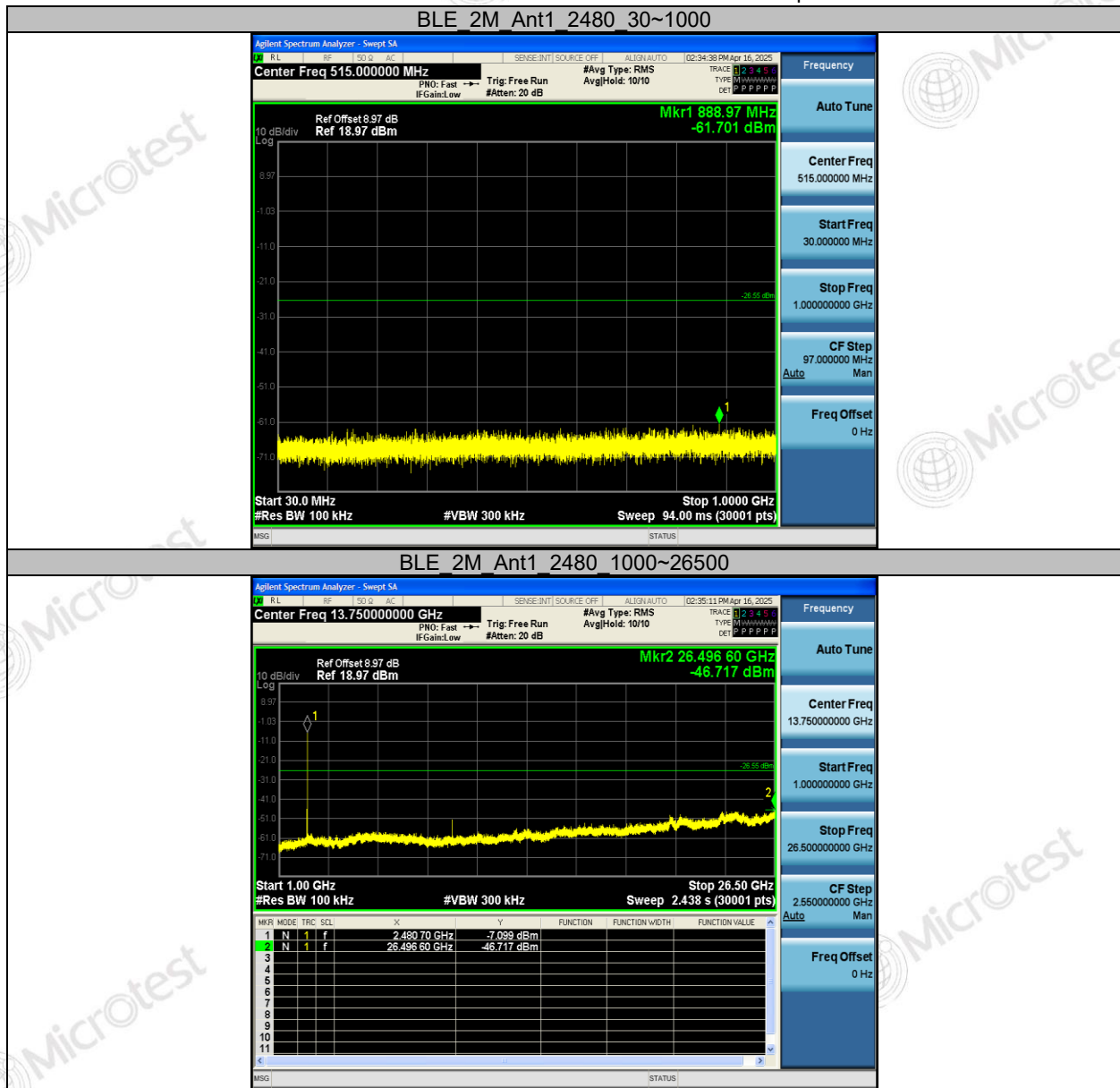
# TEST REPORT

Report No.: MTi250331025-0101E2



# TEST REPORT

Report No.: MTi250331025-0101E2

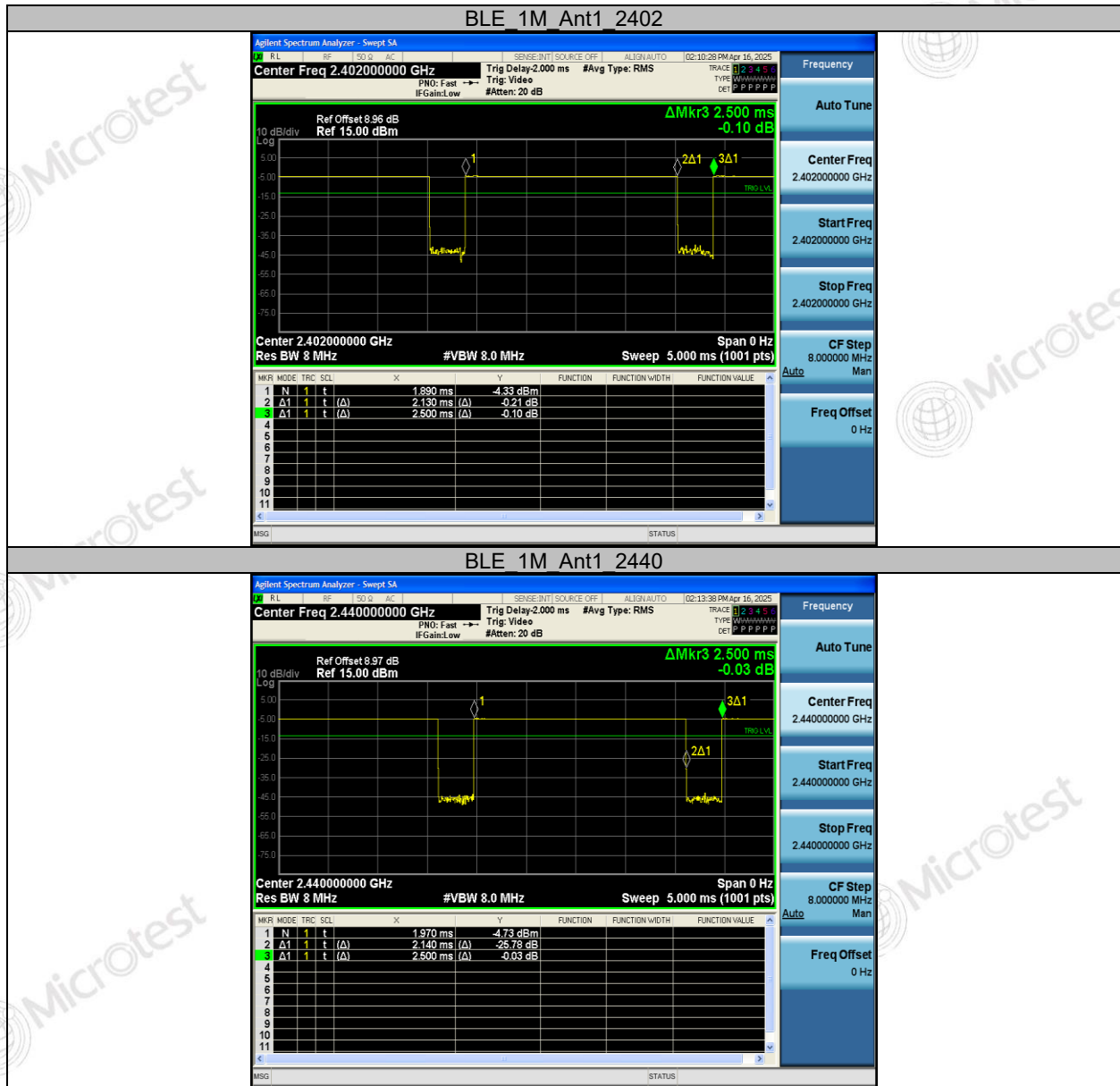


**Appendix F: Duty Cycle**

## Test Result

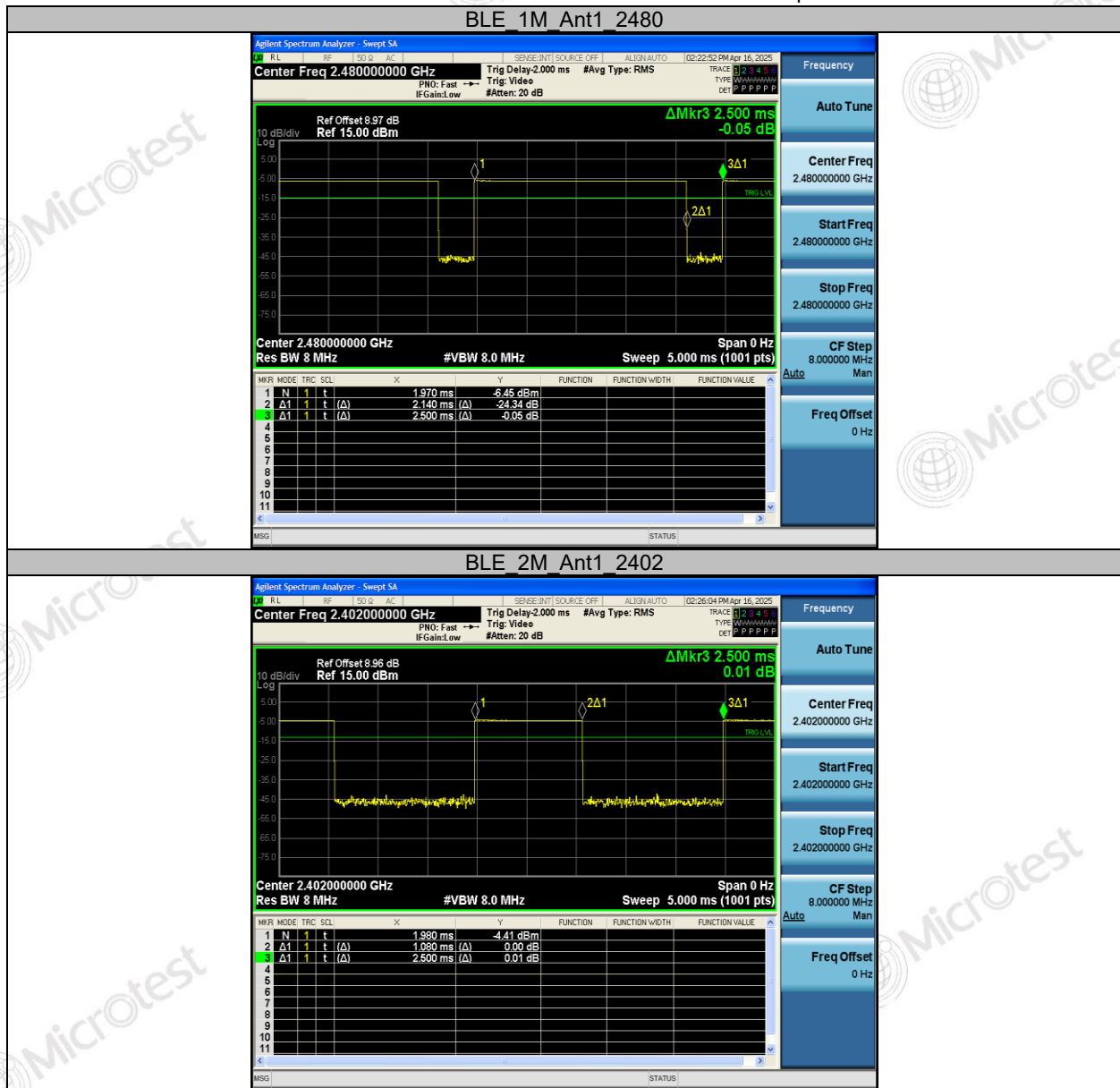
| Test Mode | Antenna | Frequency<br>[MHz] | ON Time<br>[ms] | Period<br>[ms] | Duty Cycle<br>[%] | Duty Cycle<br>Factor[dB] |
|-----------|---------|--------------------|-----------------|----------------|-------------------|--------------------------|
| BLE_1M    | Ant1    | 2402               | 2.13            | 2.50           | 85.20             | 0.70                     |
|           |         | 2440               | 2.14            | 2.50           | 85.60             | 0.68                     |
|           |         | 2480               | 2.14            | 2.50           | 85.60             | 0.68                     |
| BLE_2M    | Ant1    | 2402               | 1.08            | 2.50           | 43.20             | 3.65                     |
|           |         | 2440               | 1.09            | 2.50           | 43.60             | 3.61                     |
|           |         | 2480               | 1.08            | 2.50           | 43.20             | 3.65                     |

## Test Graphs



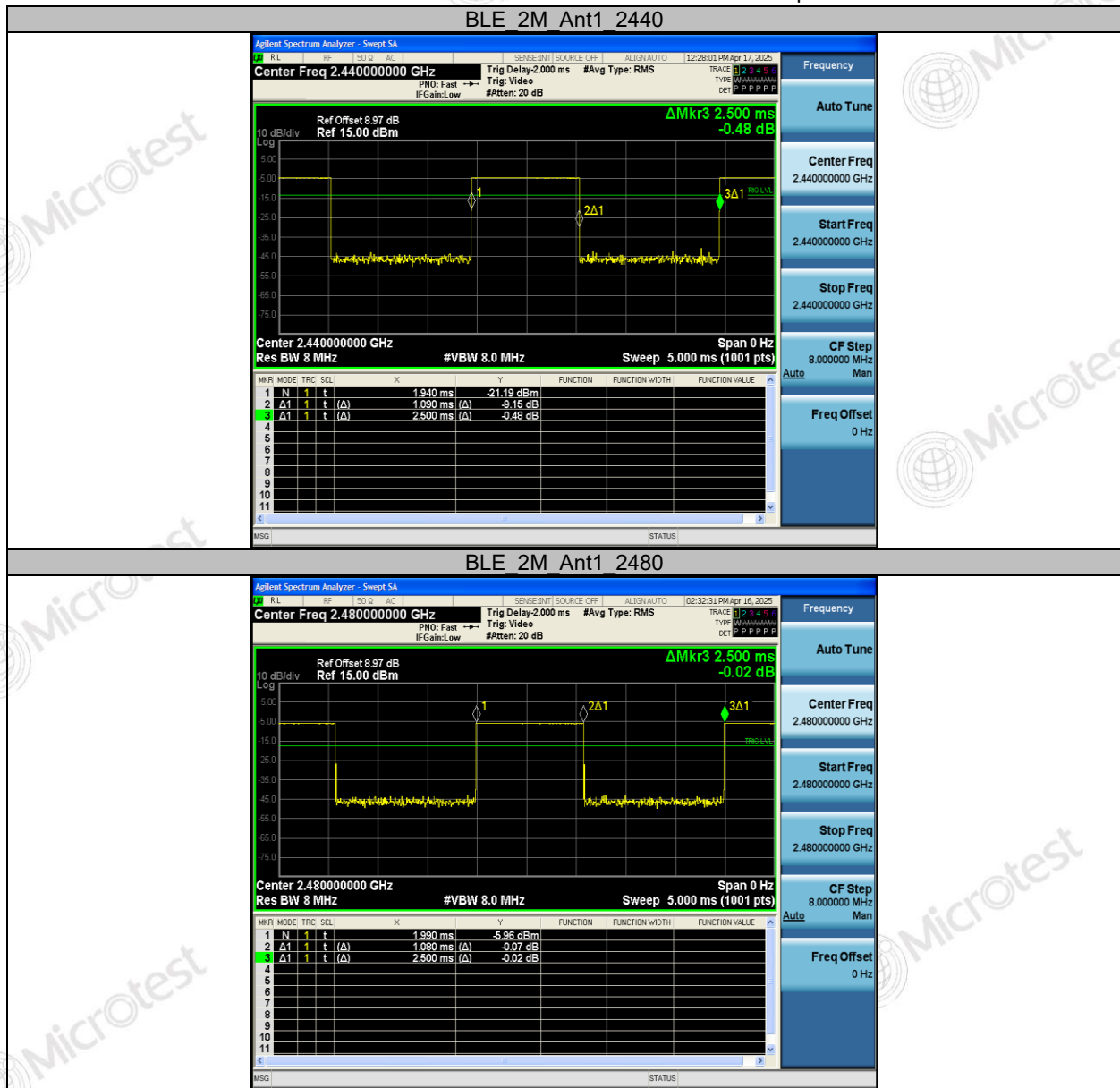
# TEST REPORT

Report No.: MTi250331025-0101E2



# TEST REPORT

Report No.: MTi250331025-0101E2



## 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 \*\*\*\*\*