

# TEST REPORT

**Application No.:** KSCR2603000440AT  
**FCC ID:** WBKRU446078  
**Applicant:** BTI Wireless  
**Address of Applicant:** 11205 Knott Avenue - Suite A, Cypress, CA 90630, United States  
**Manufacturer:** BTI Wireless  
**Address of Manufacturer:** 11205 Knott Avenue - Suite A, Cypress, CA 90630, United States  
**Equipment Under Test (EUT):**  
**EUT Name:** Remote Radio Unit  
**Model No.:** RU4460  
**Trade mark:**



**Standard(s) :** 47 CFR Part 2  
47 CFR Part 270  
**Date of Receipt:** 2026-03-04  
**Date of Test:** 2026-03-23 to 2026-03-27  
**Date of Issue:** 2026-03-31

|                     |             |
|---------------------|-------------|
| <b>Test Result:</b> | <b>Pass</b> |
|---------------------|-------------|

\* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



| Revision Record |             |            |        |
|-----------------|-------------|------------|--------|
| Version         | Description | Date       | Remark |
| 00              | Original    | 2026-03-31 | /      |
|                 |             |            |        |
|                 |             |            |        |

|                          |  |                            |  |
|--------------------------|--|----------------------------|--|
| Authorized for issue by: |  |                            |  |
| Tested By                |  | Kass Gao                   |  |
|                          |  | Kass Gao /Project Engineer |  |
| Approved By              |  | Terry Hou                  |  |
|                          |  | Terry Hou /Reviewer        |  |



Report No.: KSCR260300044001

Page: 3 of 18

## 2 Test Summary

| Test Item                                        | FCC Rule No.       | Verdict |
|--------------------------------------------------|--------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046,<br>§27.50 | Pass    |
| Peak-Average Ratio                               | §27.50             | Pass    |
| Bandwidth                                        | §2.1049            | Pass    |
| Band Edge Compliance                             | §2.1051,<br>§27.53 | Pass    |
| Spurious emissions at antenna terminals          | §2.1051,<br>§27.53 | Pass    |
| Field strength of spurious radiation             | §2.1053,<br>§27.55 | Pass    |
| Frequency stability                              | §2.1055,<br>§27.54 | Pass    |



### 3 Contents

|                                                            | Page |
|------------------------------------------------------------|------|
| 1 COVER PAGE .....                                         | 1    |
| 2 Test Summary .....                                       | 3    |
| 3 Contents .....                                           | 4    |
| 4 General Information .....                                | 5    |
| 4.1 General Description of E.U.T. ....                     | 5    |
| 4.2 Details of E.U.T. ....                                 | 5    |
| 4.3 Test Frequency .....                                   | 5    |
| 4.4 Test Support Unit .....                                | 6    |
| 4.5 Measurement Uncertainty .....                          | 6    |
| 4.6 Test Location .....                                    | 7    |
| 4.7 Test Facility .....                                    | 7    |
| 4.8 Deviation from Standards .....                         | 7    |
| 4.9 Abnormalities from Standard Conditions .....           | 7    |
| 5 Equipment List .....                                     | 8    |
| 6 Radio Spectrum Matter Test Results .....                 | 9    |
| 6.1 Effective (Isotropic) Radiated Power Output Data ..... | 9    |
| 6.2 Peak-Average Ratio .....                               | 11   |
| 6.3 Bandwidth .....                                        | 12   |
| 6.4 Band Edge Compliance .....                             | 13   |
| 6.5 Spurious emissions at antenna terminals .....          | 14   |
| 6.6 Field strength of spurious radiation .....             | 15   |
| 6.7 Frequency stability .....                              | 17   |
| 7 Test Setup Photographs .....                             | 18   |
| 8 EUT Constructional Details .....                         | 18   |

## 4 General Information

### 4.1 General Description of E.U.T.

|               |         |
|---------------|---------|
| Power Supply: | DC -48V |
| Test Voltage: | DC -48V |

### 4.2 Details of E.U.T.

|                                        |                                                                                                                                                                                     |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:                          | Remote Radio Unit                                                                                                                                                                   |
| Model No.:                             | RU4460                                                                                                                                                                              |
| Antenna Type:                          | External Antenna                                                                                                                                                                    |
| Antenna Gain:                          | 15dBi (Provided by manufacturer)                                                                                                                                                    |
| Number of Carriers:                    | 1CC                                                                                                                                                                                 |
| Support Bandwidth:                     | 10MHz, 20MHz, 40MHz, 50MHz, 60MHz, 80MHz, 100MHz                                                                                                                                    |
| Type of Modulation:                    | QPSK, 256QAM                                                                                                                                                                        |
| Frequency Band:                        | NR Band n78                                                                                                                                                                         |
| Frequency Range:                       | DL: 3700MHz-3800MHz<br>UL: 3700MHz-3800MHz                                                                                                                                          |
| Nominal Output Power per Antenna Port: | 10MHz Bandwidth: 41dBm<br>20MHz Bandwidth: 41dBm<br>40MHz Bandwidth: 41dBm<br>50MHz Bandwidth: 41dBm<br>60MHz Bandwidth: 43dBm<br>80MHz Bandwidth: 45dBm<br>100MHz Bandwidth: 45dBm |
| Antenna Delivery:                      | 4T4R MIMO                                                                                                                                                                           |

Note: The antenna gain value is provided by the customer. The test lab will not be responsible for wrong test result due to incorrect information about antenna gain values.

### 4.3 Test Frequency

|             | Carrier | Bandwidth (MHz) | Frequency (MHz) |                |             |
|-------------|---------|-----------------|-----------------|----------------|-------------|
|             |         |                 | Bottom Channel  | Middle Channel | Top Channel |
| NR Band n78 | 1CC     | 10              | 3705            | 3750           | 3795        |
|             | 1CC     | 20              | 3710.01         | 3750           | 3789.99     |
|             | 1CC     | 40              | 3720            | 3750           | 3780        |
|             | 1CC     | 50              | 3725.01         | 3750           | 3774.99     |
|             | 1CC     | 60              | 3730.02         | 3750           | 3769.98     |
|             | 1CC     | 80              | 3740.01         | 3750           | 3759.99     |
|             | 1CC     | 100             | /               | 3750           | /           |



Report No.: KSCR260300044001

Page: 6 of 18

#### 4.4 Test Support Unit

| Description     | Manufacture  | Model No. | S/N        |
|-----------------|--------------|-----------|------------|
| DC power supply | Agilent      | E3632A    | /          |
| Notebook        | LENOVO       | K27       | EB24537645 |
| Base Band Unit  | BTI Wireless | /         | /          |

#### 4.5 Measurement Uncertainty

| No. | Item                            | Measurement Uncertainty                                                                |
|-----|---------------------------------|----------------------------------------------------------------------------------------|
| 1   | Radio Frequency                 | $8.4 \times 10^{-8}$                                                                   |
| 2   | Timeout                         | 2s                                                                                     |
| 3   | Duty Cycle                      | 0.37%                                                                                  |
| 4   | Occupied Bandwidth              | 3%                                                                                     |
| 5   | RF Conducted Power              | 0.6dB                                                                                  |
| 6   | RF Power Density                | 2.9dB                                                                                  |
| 7   | Conducted Spurious Emissions    | 0.75dB                                                                                 |
| 8   | RF Radiated Power               | 5.2dB (Below 1GHz)<br>5.9dB (Above 1GHz)                                               |
| 9   | Radiated Spurious Emission Test | 4.2dB (Below 30MHz)<br>4.5dB (30MHz-1GHz)<br>5.1dB (1GHz-18GHz)<br>5.4dB (Above 18GHz) |
| 10  | Temperature Test                | 1°C                                                                                    |
| 11  | Humidity Test                   | 3%                                                                                     |
| 12  | Supply Voltages                 | 1.5%                                                                                   |
| 13  | Time                            | 3%                                                                                     |

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

#### 4.6 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).

2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

3. Sample source: sent by customer.

#### 4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA).

- **FCC (Designation Number: CN1172)**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

- **VCCI (Member No:1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

#### 4.8 Deviation from Standards

None

#### 4.9 Abnormalities from Standard Conditions

None



Report No.: KSCR260300044001

Page: 8 of 18

## 5 Equipment List

| Item                     | Equipment                            | Manufacturer  | Model             | Inventory No      | Cal Date   | Cal. Due Date |
|--------------------------|--------------------------------------|---------------|-------------------|-------------------|------------|---------------|
| <b>RF Conducted Test</b> |                                      |               |                   |                   |            |               |
| 1                        | Spectrum Analyzer                    | Keysight      | N9020A            | KUS1911E004-2     | 07/09/2025 | 07/08/2026    |
| 2                        | Spectrum Analyzer                    | Keysight      | N9020A            | KUS2001M001-2     | 07/09/2025 | 07/08/2026    |
| 3                        | Spectrum Analyzer                    | Keysight      | N9030B            | KSEM021-1         | 12/17/2025 | 12/16/2026    |
| 4                        | Signal Generator                     | R&S           | SMBV100B          | KSEM032           | 12/17/2025 | 12/16/2026    |
| 5                        | Signal Generator                     | R&S           | SMW200A           | KSEM020-1         | 07/09/2025 | 07/08/2026    |
| 6                        | Signal Generator                     | Agilent       | N5182A            | KUS2001M001-1     | 07/08/2025 | 07/07/2026    |
| 7                        | Signal Generator                     | Agilent       | E8257C            | KS301066          | 07/22/2025 | 07/21/2026    |
| 8                        | Radio Communication Test Station     | Anritsu       | MT8000A           | KSEM001-1         | 07/09/2025 | 07/08/2026    |
| 9                        | Radio Communication Analyzer         | Anritsu       | MT8821C           | KSEM002-1         | 12/17/2025 | 12/16/2026    |
| 10                       | Universal Radio Communication Tester | R&S           | CMW500            | KUS1911E004-1     | 07/08/2025 | 07/07/2026    |
| 11                       | Switcher                             | TST           | FY562             | KUS2001M001-4     | 12/17/2025 | 12/16/2026    |
| 12                       | Conducted Test Cable                 | Thermax       | RF01-RF04         | CZ301111-CZ301120 | 12/17/2025 | 12/16/2026    |
| 13                       | Attenuator                           | junke         | DTS200G-30-1N     | KSEM025-10        | 04/15/2025 | 04/14/2026    |
| 14                       | Temp. / Humidity Chamber             | TERCHY        | MHK-120AK         | KS301190          | 07/15/2025 | 07/14/2026    |
| 15                       | Temperature & Humidity Recorder      | Renke Control | RS-WS-N01-6J      | KSEM024-5         | 12/30/2025 | 12/29/2026    |
| 16                       | Software                             | BST           | TST-PASS          | /                 | NCR        | NCR           |
| <b>RF Radiated Test</b>  |                                      |               |                   |                   |            |               |
| 1                        | Spectrum Analyzer                    | R&S           | FSV40             | KUS1806E003       | 07/09/2025 | 07/08/2026    |
| 2                        | Universal Radio Communication Tester | R&S           | CMW500            | KSEM009-1         | 12/17/2025 | 12/16/2026    |
| 3                        | Signal Generator                     | Agilent       | E8257C            | KS301066          | 07/22/2025 | 07/21/2026    |
| 4                        | Loop Antenna (9KHz-30MHz)            | COM-POWER     | AL-130R           | KUS1806E001       | 07/11/2025 | 07/10/2026    |
| 5                        | Bilog Antenna (30MHz-1GHz)           | TESEQ         | CBL 6112D         | KUS1806E005       | 07/12/2025 | 07/11/2026    |
| 6                        | Horn-antenna(1-18GHz)                | Schwarzbeck   | BBHA9120D         | KS301079          | 01/11/2026 | 01/10/2028    |
| 7                        | Horn Antenna(18-40GHz)               | Schwarzbeck   | BBHA9170          | CZ301058          | 01/11/2026 | 01/10/2028    |
| 8                        | Amplifier(30MHz~1GHz)                | TST           | LNA009100G30      | KSEM061           | 12/18/2025 | 12/17/2026    |
| 9                        | Amplifier(400MHz~8GHz)               | TST           | LNA004080G30      | KSEM062           | 12/18/2025 | 12/17/2026    |
| 10                       | Amplifier(1GHz~18GHz)                | TST           | LNA010180G45      | KSEM039           | 07/09/2025 | 07/08/2026    |
| 11                       | Amplifier(18~40GHz)                  | TST           | LNA180400G40      | KSEM038           | 07/09/2025 | 07/08/2026    |
| 12                       | Temperature & Humidity Recorder      | Renke Control | RS-WS-N01-6J      | KSEM024-4         | 12/30/2025 | 12/29/2026    |
| 13                       | Software                             | ESE           | E3_V 6.111221a    | /                 | NCR        | NCR           |
| 14                       | Measurement Software                 | Tonscend      | JS32-RE V5.0.0.1  | /                 | NCR        | NCR           |
| 15                       | Measurement Software                 | Tonscend      | JS32-RSE V5.0.0.0 | /                 | NCR        | NCR           |

## 6 Radio Spectrum Matter Test Results

### 6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §27.50

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: EIRP ≤ 65.16dBm/MHz

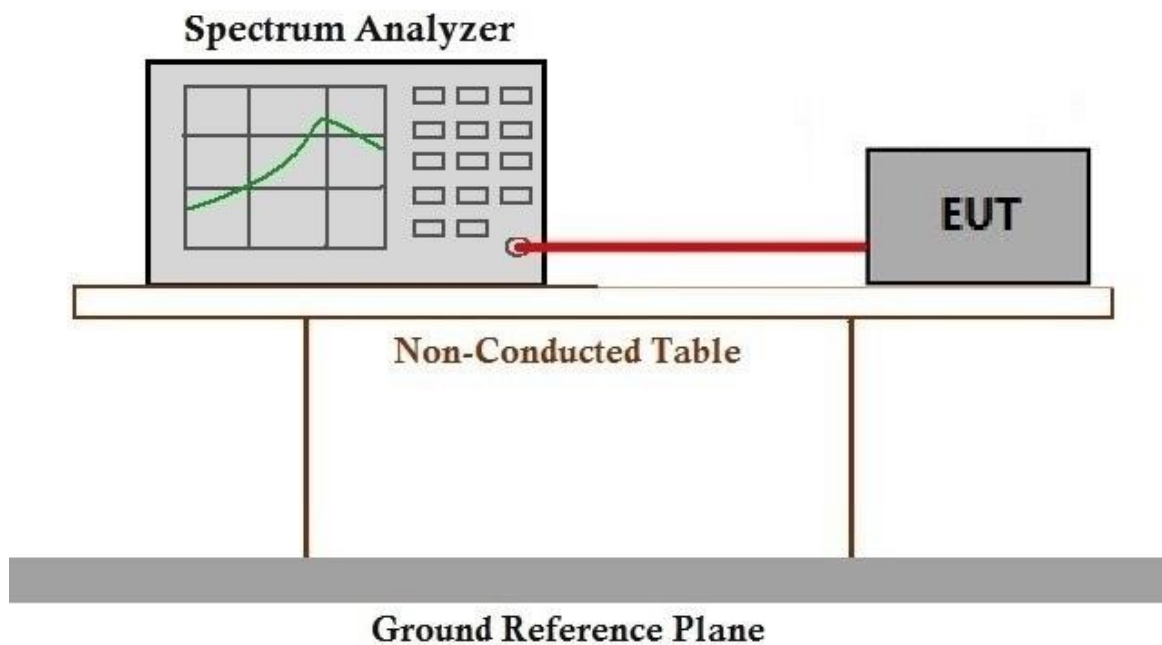
#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 51.5 % RH Atmospheric Pressure: 1010 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

#### 6.1.2 Test Setup Diagram





### 6.1.3 Measurement Data

#### Test Procedure:

Many contemporary EUTs utilize multiple output ports to accommodate multiple-input and multiple-output (MIMO) technologies. In these cases it may be necessary to measure the RF power at each output port and then sum the measured power levels (in linear terms) to determine the effective total RF output power.

EUT supports MIMO and each antenna port is the same, according to C63.26 6.4, a coefficient is added to the single antenna port power to calculate the total power. 4x4 MIMO add  $10\lg(4)=6.02$  dB.

Please refer to Appendix

## 6.2 Peak-Average Ratio

Test Requirement: §27.50

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit:  $\leq 13\text{dB}$

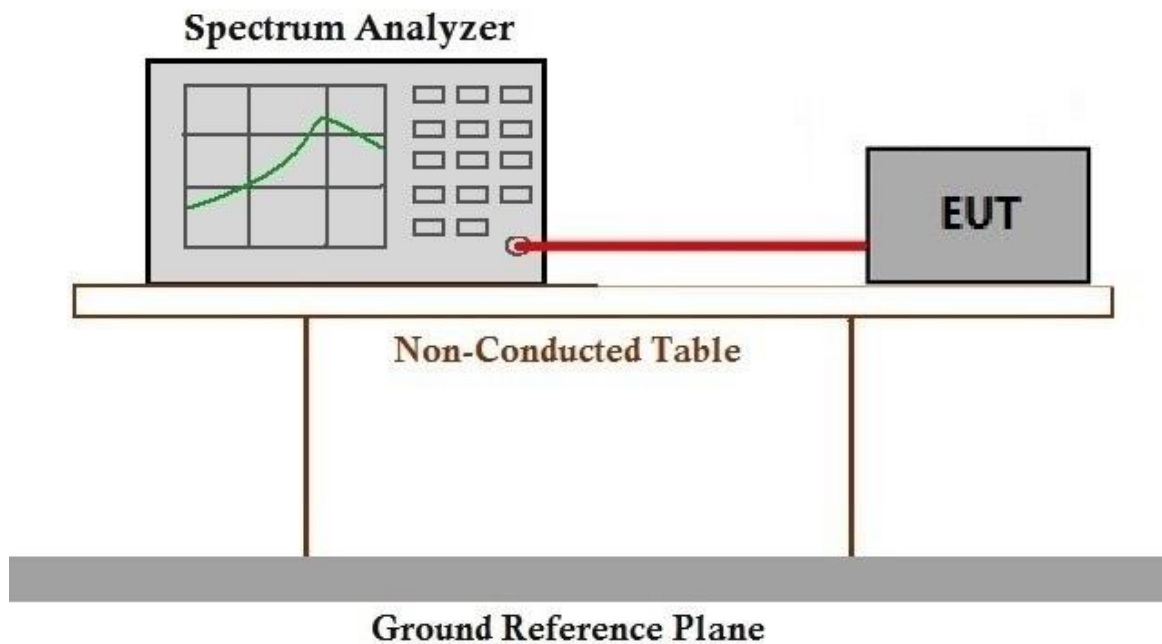
### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 51.5 % RH Atmospheric Pressure: 1010 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

### 6.2.2 Test Setup Diagram



### 6.2.3 Measurement Data

Please refer to Appendix

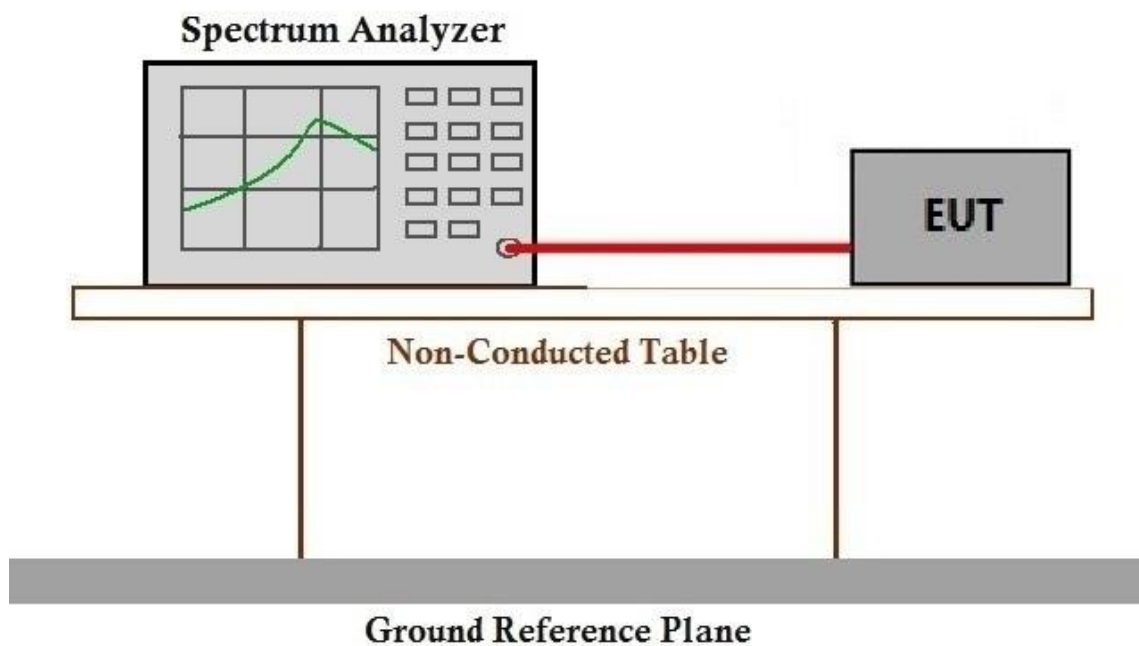
## 6.3 Bandwidth

Test Requirement: §2.1049  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: OBW: No limit  
 EBW: No limit

### 6.3.1 E.U.T. Operation

Operating Environment:  
 Temperature: 24.9 °C Humidity: 51.5 % RH Atmospheric Pressure: 1010 mbar  
 Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

### 6.3.2 Test Setup Diagram



### 6.3.3 Measurement Data

Please refer to Appendix

## 6.4 Band Edge Compliance

Test Requirement: §2.1051, §27.53

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit:  $\leq -13\text{dBm/MHz}$

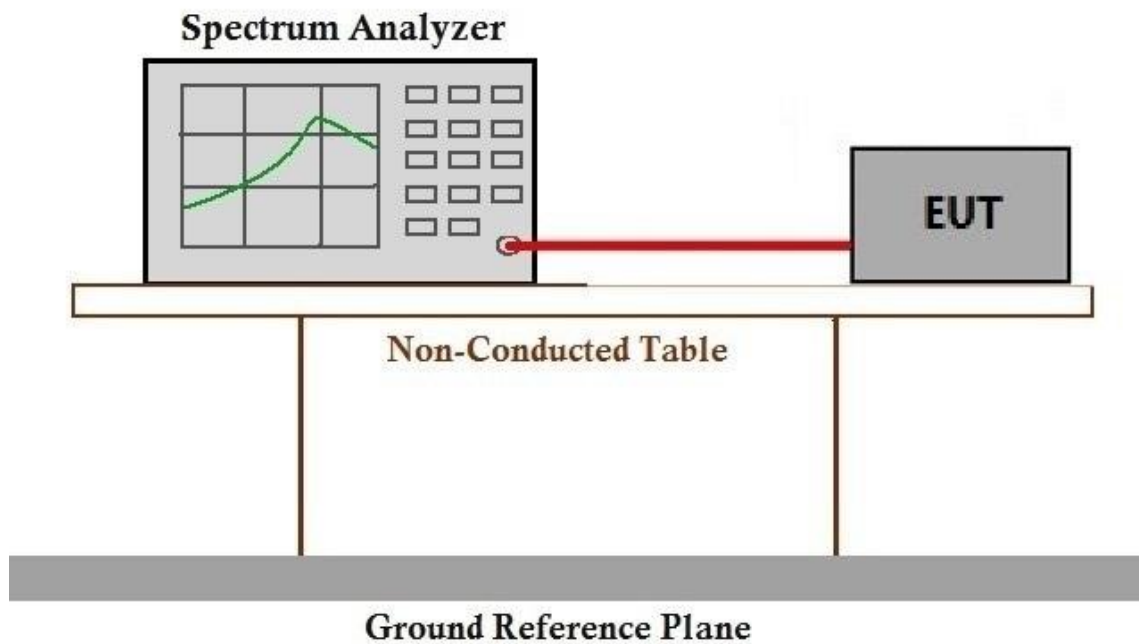
### 6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 51.5 % RH Atmospheric Pressure: 1010 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

### 6.4.2 Test Setup Diagram



### 6.4.3 Measurement Data

Please refer to Appendix

## 6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §27.53

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit:  $\leq -13\text{dBm/MHz}$

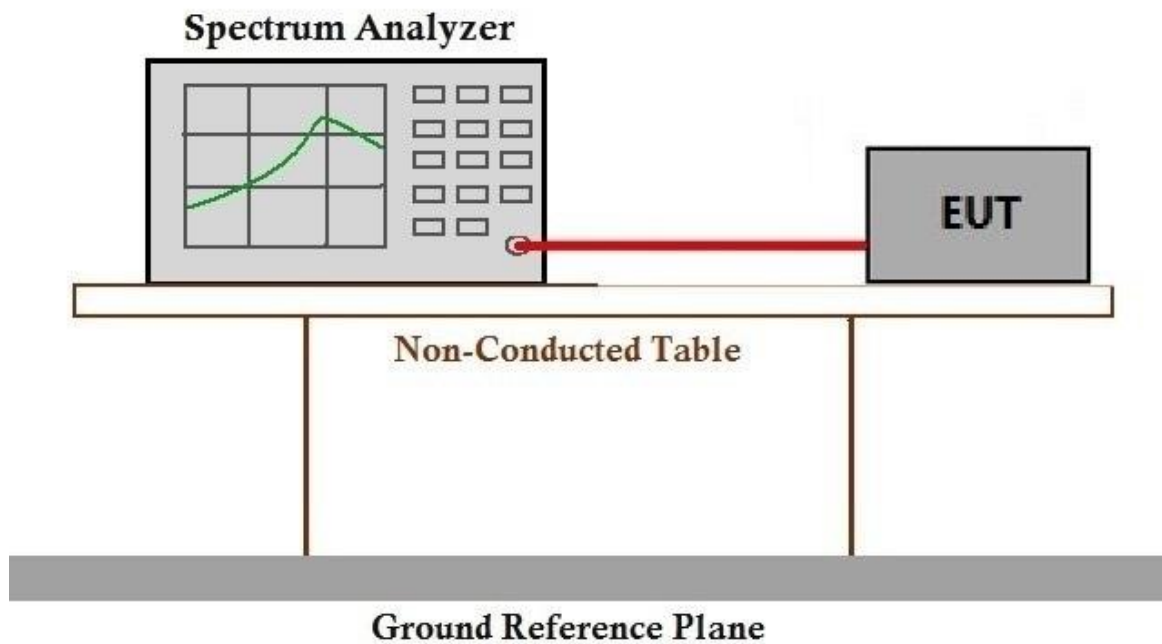
### 6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 51.5 % RH Atmospheric Pressure: 1010 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

### 6.5.2 Test Setup Diagram



### 6.5.3 Measurement Data

Please refer to Appendix

## 6.6 Field strength of spurious radiation

Test Requirement: §2.1053, §27.55

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit:  $\leq -13\text{dBm/MHz}$

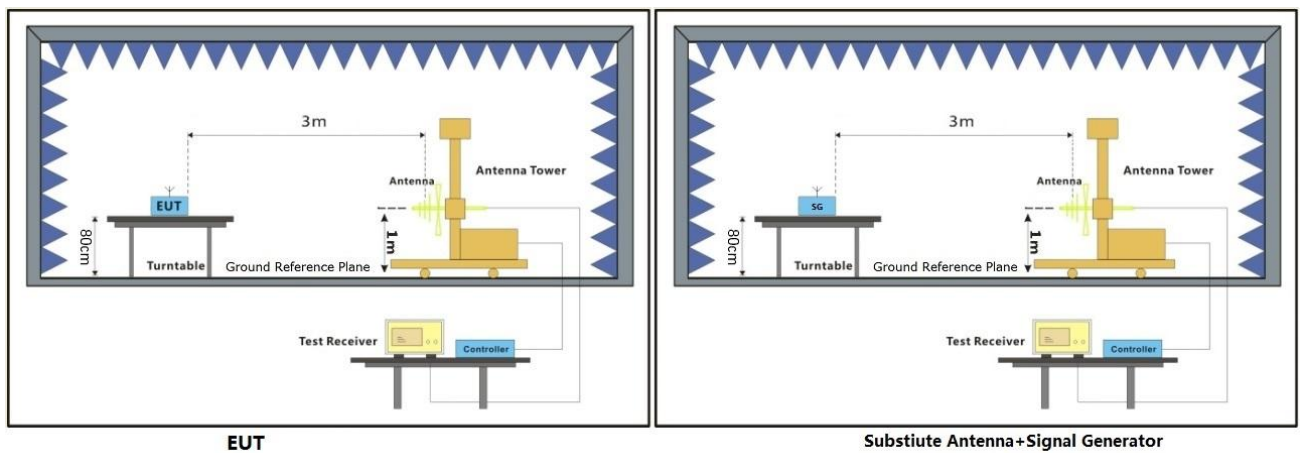
### 6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 51.5 % RH Atmospheric Pressure: 1010 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

### 6.6.2 Test Setup Diagram



### 6.6.3 Measurement Procedure and Data

#### Test Procedure:

- (1) On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.

Please refer to Appendix

## 6.7 Frequency stability

Test Requirement: §2.1055, §27.54

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: Fundamental emission stays within authorized frequency block

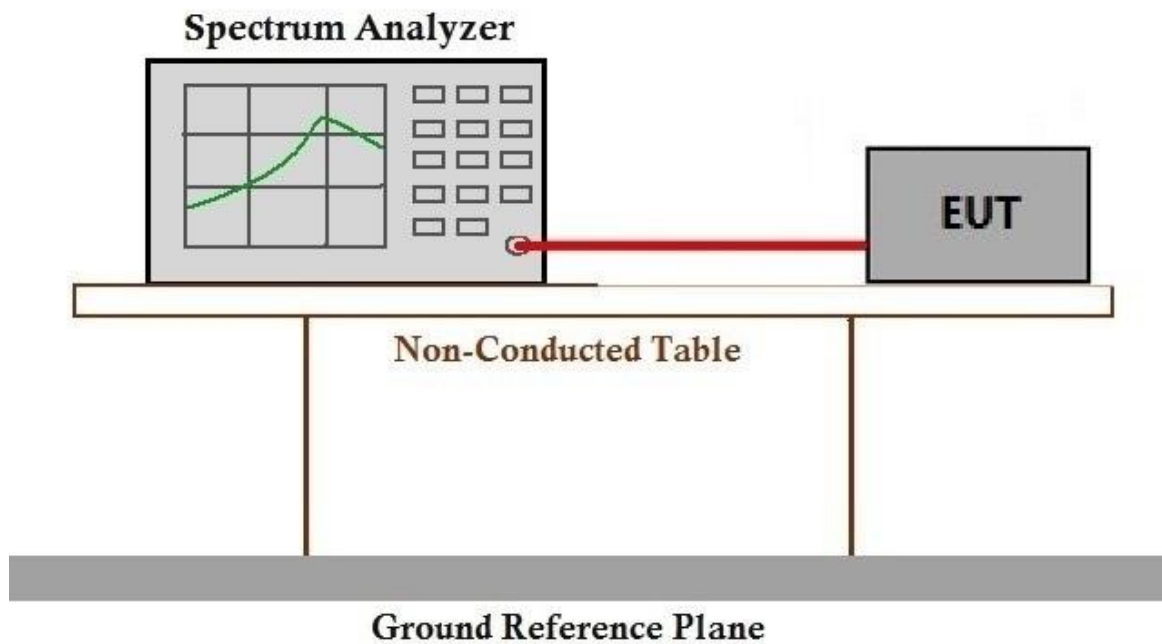
### 6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 51.5 % RH Atmospheric Pressure: 1010 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

### 6.7.2 Test Setup Diagram



### 6.7.3 Measurement Data

Please refer to Appendix



Report No.: KSCR260300044001

Page: 18 of 18

## **7 Test Setup Photographs**

Refer to Appendix - Test Setup Photo for KSCR2603000440AT

## **8 EUT Constructional Details**

Refer to Appendix\_Photographs of EUT Constructional Details for KSCR2603000440AT

- End of the Report -