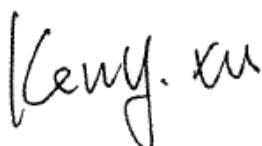


**TEST REPORT**

|                                    |   |
|------------------------------------|---|
| <b>Application No.:</b>            | SZCR2406002449AT  |
| <b>Applicant:</b>                  | FIH CO., LTD.   |
| <b>Address of Applicant:</b>       | No.4, Mingsheng St., Tu-Cheng Dist., New Taipei City 23679 Taiwan   |
| <b>Manufacturer:</b>               | Futaijing Precision Electronics (Beijing)co., Ltd.  |
| <b>Address of Manufacturer:</b>    | No.9 JinXiu Street, Beijing Economic & Technological Development Area, Beijing 100176, China                                  |
| <b>Factory:</b>                    | Futaijing Precision Electronics (Beijing)co., Ltd.  |
| <b>Address of Factory:</b>         | No.9 JinXiu Street, Beijing Economic & Technological Development Area, Beijing 100176, China                                  |
| <b>Equipment Under Test (EUT):</b> |   |
| <b>EUT Name:</b>                   | 4G Module   |
| <b>Model No.:</b>                  | 31PHBM2000A   |
| <b>FCC ID:</b>                     | RYQ31PHBM2000A  |
| <b>Standard(s) :</b>               | 47 CFR Part 2<br>47 CFR Part 22 subpart H<br>47 CFR Part 24 subpart E<br>47 CFR Part 27 subpart C<br>47 CFR Part 90 subpart S |
| <b>Date of Receipt:</b>            | 2024-06-26  |
| <b>Date of Test:</b>               | 2024-07-07 to 2024-07-12  |
| <b>Date of Issue:</b>              | 2024-07-15  |
| <b>Test Result:</b>                | <b>Pass</b>   |

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



Keny Xu  
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch, formerly SGS Laboratory

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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

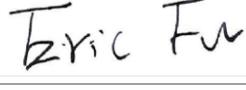
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Report No.: SZCR240600244905

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| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2024-07-15 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                          |   |                              |  |
|--------------------------|---|------------------------------|--|
| Authorized for issue by: |   |                              |  |
|                          |    | Calvin Weng                  |  |
|                          |   | Calvin Weng/Project Engineer |  |
|                          |  | Eric Fu                      |  |
|                          |   | Eric Fu/Reviewer             |  |



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Shenzhen Branch | IEC Laboratory

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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## 2 Test Summary

| Test Item                            | FCC Rule No.   | Requirements  | Verdict |
|--------------------------------------|--|---|---------|
| Field strength of spurious radiation | §2.1051<br>§22.917<br>§24.238<br>§27.50(g)<br>§27.50(h)<br>§27.50(m)<br>§27.53(c)<br>§90.691 | ≤ -13dBm (LTE Band5,26b)<br>≤ -13dBm (LTE Band2,25)<br>≤ -13dBm (LTE Band12,17,71)<br>≤ -13dBm (LTE Band4,66)<br>Refer to clause 6.6 for LTE Band7<br>Refer to clause 6.6 for LTE Band13<br>Refer to clause 6.6 for LTE Band26a,26c | PASS    |

Remark: This report is based on a module test report SZCR240400147804, to install into a host and change the antenna, therefore, only radiated spurious emissions were re-tested on this report.

This report is prepared for FCC class II permissive change. The modular have been approved by FCC, FCC ID:RYQ31PHBM2000A, granted on 07/30/2024.



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## 4 General Information

#### 4.1 Details of E.U.T.

|                                     |   |
|-------------------------------------|---|
| Power supply:                       | DC12V   |
| Cable Loss (for RF conducted test): | Below 1GHz: 4.5dB, 1GHz~2.4GHz:4.7dB, Above 2.4GHz: 5.2dB   |
| Sample Type:                        | Mobile production   |
| LTE Operation Frequency Band:       | LTE B2/4/5/7/12/13/17/25/26/66/71   |
| Modulation Type:                    | QPSK, 16QAM   |
| LTE Power Class:                    | Level 3   |
| Antenna Type:                       | Monopole antenna  |
| Antenna Gain:                       | LTE B2:-4.7dBi; B4: -4.8dBi; B5:-5.3dBi, B7:-4.4dBi, B12:-28.5dBi, B13:-17.7dBi, B17: -17.7dBi, B25: -4.7dBi; B26:-12.1dBi; B66:-4.6dBi, B71:-29dBi |
| Host name:                          | RTBM  |
| Host Model Number:                  | RTBM-EANAGEN  |

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

## 4.2 Description of Support Units

| Description                | Manufacturer            | Model No.               | Serial No. |
|----------------------------|-------------------------|-------------------------|------------|
| Control board              | Provided by Manufacture | --                      | --         |
| Antenna box for LTE & GNSS | Provided by Manufacture | --                      | --         |
| Speaker and Microphone     | Provided by Manufacture | --                      | --         |
| Main cable                 | Provided by Manufacture | --                      | --         |
| Ethernet Cable             | AMTD                    | Provided by Manufacture | --         |
| BUB cable                  |                         | Provided by Manufacture | --         |
| BUB(Backup Battery)        |                         | Provided by Manufacture | --         |

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## 4.3 Test Frequency

| Test mode:     | Nominal Bandwidth (MHz) | RF Channel |            |          |
|----------------|-------------------------|------------|------------|----------|
|                |                         | Low (L)    | Middle (M) | High (H) |
|                |                         | MHz        | MHz        | MHz      |
| LTE FDD Band 2 | 1.4                     | 1850.7     | 1880       | 1909.3   |
|                | 3                       | 1851.5     | 1880       | 1908.5   |
|                | 5                       | 1852.5     | 1880       | 1907.5   |
|                | 10                      | 1855.0     | 1880       | 1905.0   |
|                | 15                      | 1857.5     | 1880       | 1902.5   |
|                | 20                      | 1860.0     | 1880       | 1900.0   |
| LTE FDD Band 4 | Nominal Bandwidth (MHz) | RF Channel |            |          |
|                |                         | Low (L)    | Middle (M) | High (H) |
|                |                         | MHz        | MHz        | MHz      |
|                | 1.4                     | 1710.7     | 1732.5     | 1754.3   |
|                | 3                       | 1711.5     | 1732.5     | 1751.5   |
|                | 5                       | 1712.5     | 1732.5     | 1752.5   |
| LTE FDD Band 5 | Nominal Bandwidth (MHz) | RF Channel |            |          |
|                |                         | Low (L)    | Middle (M) | High (H) |
|                |                         | MHz        | MHz        | MHz      |
|                | 1.4                     | 824.7      | 836.5      | 848.3    |
|                | 3                       | 825.5      | 836.5      | 847.5    |
|                | 5                       | 826.5      | 836.5      | 846.5    |
| LTE FDD Band 7 | Nominal Bandwidth (MHz) | RF Channel |            |          |
|                |                         | Low (L)    | Middle (M) | High (H) |
|                |                         | MHz        | MHz        | MHz      |
|                | 5                       | 2502.5     | 2535.0     | 2567.5   |
|                | 10                      | 2505.0     | 2535.0     | 2565.0   |
|                | 15                      | 2507.5     | 2535.0     | 2562.5   |
|                | 20                      | 2510.0     | 2535.0     | 2560.0   |

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| Test mode:       | Nominal Bandwidth (MHz) | RF Channel |            |          |
|------------------|-------------------------|------------|------------|----------|
|                  |                         | Low (L)    | Middle (M) | High (H) |
|                  |                         | MHz        | MHz        | MHz      |
| LTE FDD Band 12  | 1.4                     | 699.7      | 707.5      | 715.3    |
|                  | 3                       | 700.5      | 707.5      | 714.5    |
|                  | 5                       | 701.5      | 707.5      | 713.5    |
|                  | 10                      | 704.0      | 707.5      | 711.0    |
| Test mode:       | Nominal Bandwidth (MHz) | RF Channel |            |          |
|                  |                         | Low (L)    | Middle (M) | High (H) |
|                  |                         | MHz        | MHz        | MHz      |
| LTE FDD Band 13  | 5                       | 779.5      | 782.0      | 784.5    |
|                  | 10                      | /          | 782.0      | /        |
| Test mode:       | Nominal Bandwidth (MHz) | RF Channel |            |          |
|                  |                         | Low (L)    | Middle (M) | High (H) |
|                  |                         | MHz        | MHz        | MHz      |
| LTE FDD Band 17  | 5                       | 706.5      | 710.0      | 713.5    |
|                  | 10                      | 709.0      | 710.0      | 711.0    |
| Test mode:       | Nominal Bandwidth (MHz) | RF Channel |            |          |
|                  |                         | Low (L)    | Middle (M) | High (H) |
|                  |                         | MHz        | MHz        | MHz      |
| LTE FDD Band 25  | 1.4                     | 1850.7     | 1882.5     | 1914.3   |
|                  | 3                       | 1851.5     | 1882.5     | 1913.5   |
|                  | 5                       | 1852.5     | 1882.5     | 1912.5   |
|                  | 10                      | 1855.0     | 1882.5     | 1910.0   |
|                  | 15                      | 1857.5     | 1882.5     | 1907.5   |
|                  | 20                      | 1860.0     | 1882.5     | 1905.0   |
| Test mode:       | Nominal Bandwidth (MHz) | RF Channel |            |          |
|                  |                         | Low (L)    | Middle (M) | High (H) |
|                  |                         | MHz        | MHz        | MHz      |
| LTE FDD Band 26a | 1.4                     | 814.7      | 819.0      | 823.3    |
|                  | 3                       | 815.5      | 819.0      | 822.5    |
|                  | 5                       | 816.5      | 819.0      | 822.2    |
|                  | 10                      | /          | 819.0      | /        |

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| Test mode:       | Nominal Bandwidth (MHz) | RF Channel |            |          |
|------------------|-------------------------|------------|------------|----------|
|                  |                         | Low (L)    | Middle (M) | High (H) |
|                  |                         | MHz        | MHz        | MHz      |
| LTE FDD Band 26b | 1.4                     | 824.7      | 836.5      | 848.3    |
|                  | 3                       | 825.5      | 836.5      | 847.5    |
|                  | 5                       | 826.5      | 836.5      | 846.5    |
|                  | 10                      | 829.0      | 836.5      | 844.0    |
|                  | 15                      | 831.5      | 836.5      | 841.5    |
| Test mode:       | Nominal Bandwidth (MHz) | RF Channel |            |          |
|                  |                         | Low (L)    | Middle (M) | High (H) |
|                  |                         | MHz        | MHz        | MHz      |
| LTE FDD Band 26c | 15                      | 821.5      | 831.5      | 841.5    |
| Test mode:       | Nominal Bandwidth (MHz) | RF Channel |            |          |
|                  |                         | Low (L)    | Middle (M) | High (H) |
|                  |                         | MHz        | MHz        | MHz      |
| LTE FDD Band 66  | 1.4                     | 1710.7     | 1745.0     | 1779.3   |
|                  | 3                       | 1711.5     | 1745.0     | 1778.5   |
|                  | 5                       | 1712.5     | 1745.0     | 1777.5   |
|                  | 10                      | 1715.0     | 1745.0     | 1775.0   |
|                  | 15                      | 1717.5     | 1745.0     | 1772.5   |
|                  | 20                      | 1720.0     | 1745.0     | 1770.0   |
| Test mode:       | Nominal Bandwidth (MHz) | RF Channel |            |          |
|                  |                         | Low (L)    | Middle (M) | High (H) |
|                  |                         | MHz        | MHz        | MHz      |
| LTE FDD Band 71  | 5                       | 665.5      | 680.5      | 695.5    |
|                  | 10                      | 668.0      | 680.5      | 693.0    |
|                  | 15                      | 670.5      | 680.5      | 690.5    |
|                  | 20                      | 673.0      | 680.5      | 688.0    |

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**4.4 Test Environment**

| Environment Parameter | Selected Values During Tests |          |
|-----------------------|------------------------------|----------|
| Temperature:          | TL                           | -30°C    |
|                       | TN                           | +20°C    |
|                       | TH                           | +50°C    |
| Voltage:              | VL                           | 10.2 Vdc |
|                       | VN                           | 12 Vdc   |
|                       | VH                           | 13.8 Vdc |

NOTE: VL= lower extreme test voltage

VN= nominal voltage

VH= upper extreme test voltage

TL= lower extreme test temperature

TN= normal temperature

TH= upper extreme test temperature

**4.5 Measurement Uncertainty**

| No. | Item                            | Measurement Uncertainty  |
|-----|---------------------------------|--|
| 1   | Radio Frequency                 | $\pm 5.4 \times 10^{-8}$   |
| 2   | Duty cycle                      | $\pm 0.3\%$  |
| 3   | Occupied Bandwidth              | $\pm 3\%$  |
| 4   | RF conducted power              | $\pm 0.8\text{dB}$   |
| 5   | RF power density                | $\pm 0.4\text{dB}$   |
| 6   | Conducted Spurious emissions    | $\pm 2.7\text{dB}$   |
| 7   | Radiated Spurious emission test | $\pm 3.1\text{dB}$ (Below 1GHz)<br>$\pm 4.4\text{dB}$ (Above 1GHz) |
| 8   | Temperature test                | $\pm 1^\circ\text{C}$  |
| 9   | Humidity test                   | $\pm 3\%$  |
| 10  | Supply voltages                 | $\pm 1.5\%$  |
| 11  | Time                            | $\pm 3\%$  |

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### 4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch  
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 4.7 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

### 4.8 Deviation from Standards

None

### 4.9 Abnormalities from Standard Conditions

None

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## 5 Equipment List

| RE in Chamber                        |                                    |                 |               |            |               |
|--------------------------------------|------------------------------------|-----------------|---------------|------------|---------------|
| Test Equipment                       | Manufacturer                       | Model No.       | Inventory No. | Cal. Date  | Cal. Due date |
| 3m Fully-Anechoic Chamber            | AUDIX                              | N/A             | SEM001-02     | 2024-05-11 | 2027-05-10    |
| Signal Analyzer                      | Rohde & Schwarz                    | FSV40           | SEM008-04     | 2024-03-15 | 2025-03-14    |
| Trilog-Broadband Antenna             | Schwarzbeck                        | VULB9168        | SEM003-33     | 2021/9/25  | 2024/9/24     |
| Substitution Antenna                 | Schwarzbeck                        | VULB9168        | SEM003-18     | 2022/08/07 | 2025/08/06    |
| Horn Antenna                         | Rohde&Schwarz                      | HF907           | SEM003-07     | 2023-07-23 | 2025-07-22    |
| Microwave system amplifier           | Agilent                            | 83017A          | SEM005-25     | 2023-09-19 | 2024-09-18    |
| Measurement Software                 | AUDIX                              | e3 V8.2014-6-27 | N/A           | N/A        | N/A           |
| Coaxial Cable                        | SGS                                | N/A             | SEM026-01     | 2024-07-06 | 2025-07-05    |
| Broad-Band Horn Antenna              | Schwarzbeck                        | BBHA 9170       | SEM003-15     | 2022-08-10 | 2024-08-09    |
| Pre-Amplifier                        | Compliance Directions Systems Inc. | PAP-2640-50     | SEM005-08     | 2024-03-15 | 2025-03-14    |
| Signal Generator(9kHz-40GHz)         | N5173B                             | MY53270267      | Agilent       | 2023-9-19  | 2024-9-18     |
| Broad-Band Horn Antenna              | Schwarzbeck                        | BBHA 9120D      | SEM003-32     | 2021-09-26 | 2024-09-25    |
| Pre-amplifier                        | Rohde & Schwarz                    | CH14-H052       | SEM005-17     | 2024-03-15 | 2025-03-14    |
| Substitution Antenna                 | Rohde & Schwarz                    | HF907           | SEM003-06     | 2022-08-07 | 2024-08-06    |
| Substitution Antenna                 | ETS-LINDGREN                       | 3160-09         | SEM003-12     | 2022-08-10 | 2024-08-09    |
| Universal Radio Communication Tester | Rohde & Schwarz                    | CMW 500         | SEM010-03     | 2024-03-27 | 2025-03-26    |
| Universal Radio Communication Tester | Anritsu                            | MT8000A         | SEM010-10     | 2024-3-14  | 2025-3-13     |

| General used equipment          |   |           |               |            |              |
|---------------------------------|---|-----------|---------------|------------|--------------|
| Equipment                       | Manufacturer                              | Model No. | Inventory No. | Cal Date   | Cal Due Date |
| Humidity- Temperature Indicator | deli                                      | 8838      | SEM002-32     | 2023-07-28 | 2024-07-27   |
| Humidity- Temperature Indicator | deli                                      | 8838      | SEM002-33     | 2023-07-28 | 2024-07-27   |
| Barometer                       | Changchun Meteorological Industry Factory | DYM3      | SEM002-01     | 2024-03-22 | 2025-03-21   |

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## 6 Radio Spectrum Matter Test Results

### 6.1 Field strength of spurious radiation

Test Requirement: §2.1051, §22.917, §24.238, §27.50(g), §27.50(h), §27.50(m), §27.53(c), §90.691

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤ -13dBm (LTE B2/4/5/12/17/25/26b/66/71)

#### For band7:

For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log(P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log(P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log(P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log(P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log(P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

#### For band 13:

- (1) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB;
- (2) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $65 + 10 \log(P)$  dB in a 6.25 kHz band segment, for mobile and portable stations

#### For band26a,26c:

For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $116 \log_{10}(f/6.1)$  decibels or  $50 + 10 \log_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

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

Operating Environment:

Temperature: 23.1 °C      Humidity: 49.5 % RH      Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode\_Keep the EUT in transmitting mode



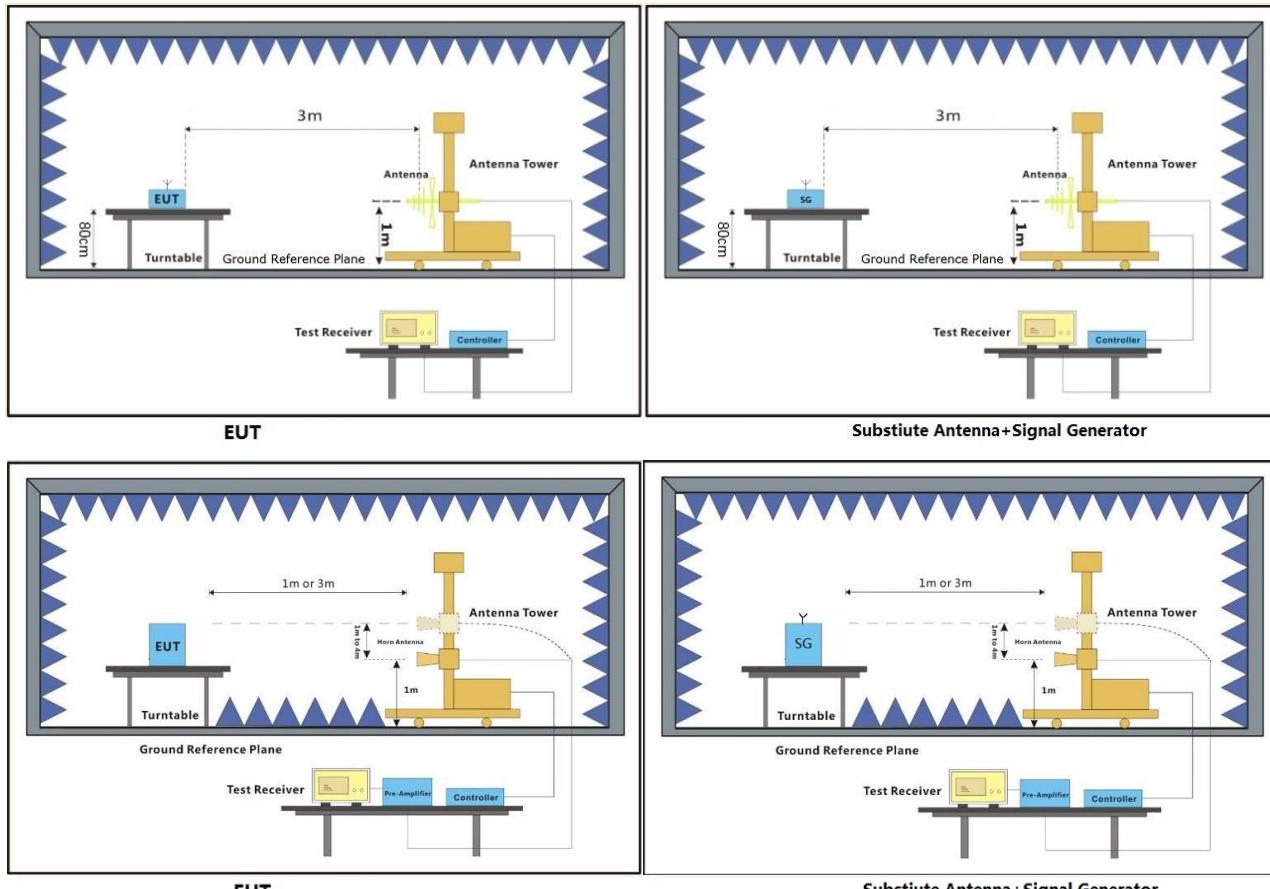
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### 6.1.2 Test Setup Diagram



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### 6.1.3 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.



| LTE Band 2-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)  | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639   | -54.09     | -13         | -41.09          | -57.27           | 1.91            | 5.09               | Horizontal         | Pass   |
| 4996.69  | -50.83     | -13         | -37.83          | -56.71           | 4.26            | 10.14              | Horizontal         | Pass   |
| 9441.913   | -50.08     | -13         | -37.08          | -58.53           | 4.79            | 13.24              | Horizontal         | Pass   |
| 5125.515   | -50.67     | -13         | -37.67          | -56.64           | 4.25            | 10.22              | Vertical           | Pass   |
| 9441.913   | -49.66     | -13         | -36.66          | -58.11           | 4.79            | 13.24              | Vertical           | Pass   |
| 11341.14   | -51.84     | -13         | -38.84          | -60.03           | 5.06            | 13.25              | Vertical           | Pass   |

| LTE Band 2-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)   | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639  | -53.92     | -13         | -40.92          | -57.1            | 1.91            | 5.09               | Horizontal         | Pass   |
| 4996.69   | -49.86     | -13         | -36.86          | -55.74           | 4.26            | 10.14              | Horizontal         | Pass   |
| 9490.104  | -50.02     | -13         | -37.02          | -58.44           | 4.82            | 13.24              | Horizontal         | Pass   |
| 4996.69   | -49.71     | -13         | -36.71          | -55.59           | 4.26            | 10.14              | Vertical           | Pass   |
| 9636.161  | -49.4      | -13         | -36.4           | -57.69           | 4.89            | 13.18              | Vertical           | Pass   |
| 11933.47  | -52.05     | -13         | -39.05          | -60.26           | 5.05            | 13.26              | Vertical           | Pass   |

| LTE Band 2-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)   | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639  | -53.79     | -13         | -40.79          | -56.97           | 1.91            | 5.09               | Horizontal         | Pass   |
| 5009.426  | -50.5      | -13         | -37.5           | -56.39           | 4.26            | 10.15              | Horizontal         | Pass   |
| 9514.293  | -50.11     | -13         | -37.11          | -58.51           | 4.83            | 13.23              | Horizontal         | Pass   |
| 5138.579  | -50.69     | -13         | -37.69          | -56.67           | 4.25            | 10.23              | Vertical           | Pass   |
| 9465.979  | -50.67     | -13         | -37.67          | -59.11           | 4.8             | 13.24              | Vertical           | Pass   |
| 10971.98  | -52.23     | -13         | -39.23          | -60.42           | 5.07            | 13.26              | Vertical           | Pass   |

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| LTE Band 4-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)  | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639   | -54.04     | -13         | -41.04          | -57.22           | 1.91            | 5.09               | Horizontal         | Pass   |
| 5009.426   | -50.24     | -13         | -37.24          | -56.13           | 4.26            | 10.15              | Horizontal         | Pass   |
| 9441.913   | -50.17     | -13         | -37.17          | -58.62           | 4.79            | 13.24              | Horizontal         | Pass   |
| 5138.579   | -50.29     | -13         | -37.29          | -56.27           | 4.25            | 10.23              | Vertical           | Pass   |
| 9465.979   | -50.21     | -13         | -37.21          | -58.65           | 4.8             | 13.24              | Vertical           | Pass   |
| 12461.22   | -51.59     | -13         | -38.59          | -59.5            | 5.32            | 13.23              | Vertical           | Pass   |

| LTE Band 4-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)   | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639  | -54.06     | -13         | -41.06          | -57.24           | 1.91            | 5.09               | Horizontal         | Pass   |
| 5009.426  | -50.77     | -13         | -37.77          | -56.66           | 4.26            | 10.15              | Horizontal         | Pass   |
| 9514.293  | -49.76     | -13         | -36.76          | -58.16           | 4.83            | 13.23              | Horizontal         | Pass   |
| 5086.523  | -51.23     | -13         | -38.23          | -57.16           | 4.26            | 10.19              | Vertical           | Pass   |
| 9465.979  | -50.6      | -13         | -37.6           | -59.04           | 4.8             | 13.24              | Vertical           | Pass   |
| 11428.08  | -51.96     | -13         | -38.96          | -60.14           | 5.06            | 13.24              | Vertical           | Pass   |

| LTE Band 4-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)   | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639  | -53.5      | -13         | -40.5           | -56.68           | 1.91            | 5.09               | Horizontal         | Pass   |
| 4996.69   | -50.35     | -13         | -37.35          | -56.23           | 4.26            | 10.14              | Horizontal         | Pass   |
| 9465.979  | -49.92     | -13         | -36.92          | -58.36           | 4.8             | 13.24              | Horizontal         | Pass   |
| 5151.676  | -50.47     | -13         | -37.47          | -56.45           | 4.25            | 10.23              | Vertical           | Pass   |
| 9514.293  | -50.09     | -13         | -37.09          | -58.49           | 4.83            | 13.23              | Vertical           | Pass   |
| 11341.14  | -52.33     | -13         | -39.33          | -60.52           | 5.06            | 13.25              | Vertical           | Pass   |

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| LTE Band 5-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)  | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639   | -53.65     | -13         | -40.65          | -56.83           | 1.91            | 5.09               | Horizontal         | Pass   |
| 5191.168   | -50.84     | -13         | -37.84          | -56.85           | 4.25            | 10.26              | Horizontal         | Pass   |
| 9490.104   | -49.38     | -13         | -36.38          | -57.8            | 4.82            | 13.24              | Horizontal         | Pass   |
| 5138.579   | -51.53     | -13         | -38.53          | -57.51           | 4.25            | 10.23              | Vertical           | Pass   |
| 9441.913   | -50.27     | -13         | -37.27          | -58.72           | 4.79            | 13.24              | Vertical           | Pass   |
| 11370.05   | -52.34     | -13         | -39.34          | -60.53           | 5.06            | 13.25              | Vertical           | Pass   |

| LTE Band 5-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)   | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639  | -53.98     | -13         | -40.98          | -57.16           | 1.91            | 5.09               | Horizontal         | Pass   |
| 6816.394  | -50.6      | -13         | -37.6           | -57.3            | 4.19            | 10.89              | Horizontal         | Pass   |
| 9465.979  | -49.56     | -13         | -36.56          | -58.0            | 4.8             | 13.24              | Horizontal         | Pass   |
| 5086.523  | -51.21     | -13         | -38.21          | -57.14           | 4.26            | 10.19              | Vertical           | Pass   |
| 9346.262  | -49.94     | -13         | -36.94          | -58.43           | 4.74            | 13.23              | Vertical           | Pass   |
| 11486.41  | -52.27     | -13         | -39.27          | -60.45           | 5.06            | 13.24              | Vertical           | Pass   |

| LTE Band 5-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)   | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639  | -54.24     | -13         | -41.24          | -57.42           | 1.91            | 5.09               | Horizontal         | Pass   |
| 4983.987  | -50.6      | -13         | -37.6           | -56.47           | 4.25            | 10.12              | Horizontal         | Pass   |
| 9393.966  | -49.98     | -13         | -36.98          | -58.44           | 4.77            | 13.23              | Horizontal         | Pass   |
| 5009.426  | -51.17     | -13         | -38.17          | -57.06           | 4.26            | 10.15              | Vertical           | Pass   |
| 9465.979  | -49.99     | -13         | -36.99          | -58.43           | 4.8             | 13.24              | Vertical           | Pass   |
| 10778.21  | -52.35     | -13         | -39.35          | -60.48           | 5.07            | 13.2               | Vertical           | Pass   |

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| LTE Band 7-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)  | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639   | -53.39     | -13         | -40.39          | -56.57           | 1.91            | 5.09               | Horizontal         | Pass   |
| 4996.69  | -50.02     | -13         | -37.02          | -55.9            | 4.26            | 10.14              | Horizontal         | Pass   |
| 9370.083   | -50.56     | -13         | -37.56          | -59.03           | 4.76            | 13.23              | Horizontal         | Pass   |
| 5099.487   | -51.0      | -13         | -38.0           | -56.94           | 4.26            | 10.2               | Vertical           | Pass   |
| 9204.6   | -50.36     | -13         | -37.36          | -58.91           | 4.67            | 13.22              | Vertical           | Pass   |
| 10833.22   | -52.78     | -13         | -39.78          | -60.93           | 5.07            | 13.22              | Vertical           | Pass   |

| LTE Band 7-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)   | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639  | -53.55     | -13         | -40.55          | -56.73           | 1.91            | 5.09               | Horizontal         | Pass   |
| 5164.807  | -50.93     | -13         | -37.93          | -56.92           | 4.25            | 10.24              | Horizontal         | Pass   |
| 9490.104  | -49.44     | -13         | -36.44          | -57.86           | 4.82            | 13.24              | Horizontal         | Pass   |
| 5009.426  | -51.12     | -13         | -38.12          | -57.01           | 4.26            | 10.15              | Vertical           | Pass   |
| 9346.262  | -49.41     | -13         | -36.41          | -57.9            | 4.74            | 13.23              | Vertical           | Pass   |
| 11341.14  | -52.61     | -13         | -39.61          | -60.8            | 5.06            | 13.25              | Vertical           | Pass   |

| LTE Band 7-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)   | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639  | -54.01     | -13         | -41.01          | -57.19           | 1.91            | 5.09               | Horizontal         | Pass   |
| 4996.69   | -50.74     | -13         | -37.74          | -56.62           | 4.26            | 10.14              | Horizontal         | Pass   |
| 9490.104  | -50.29     | -13         | -37.29          | -58.71           | 4.82            | 13.24              | Horizontal         | Pass   |
| 5009.426  | -50.95     | -13         | -37.95          | -56.84           | 4.26            | 10.15              | Vertical           | Pass   |
| 9370.083  | -50.13     | -13         | -37.13          | -58.6            | 4.76            | 13.23              | Vertical           | Pass   |
| 12653.0   | -52.51     | -13         | -39.51          | -60.4            | 5.43            | 13.32              | Vertical           | Pass   |

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| LTE Band 12-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)   | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639  | -53.55     | -13         | -40.55          | -56.73           | 1.91            | 5.09               | Horizontal         | Pass   |
| 5034.994  | -51.48     | -13         | -38.48          | -57.38           | 4.26            | 10.16              | Horizontal         | Pass   |
| 9441.913  | -50.36     | -13         | -37.36          | -58.81           | 4.79            | 13.24              | Horizontal         | Pass   |
| 5177.971  | -51.26     | -13         | -38.26          | -57.26           | 4.25            | 10.25              | Vertical           | Pass   |
| 9538.543  | -50.23     | -13         | -37.23          | -58.61           | 4.84            | 13.22              | Vertical           | Pass   |
| 11370.05  | -51.7      | -13         | -38.7           | -59.89           | 5.06            | 13.25              | Vertical           | Pass   |

| LTE Band 12-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)  | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639   | -53.66     | -13         | -40.66          | -56.84           | 1.91            | 5.09               | Horizontal         | Pass   |
| 4983.987   | -50.98     | -13         | -37.98          | -56.85           | 4.25            | 10.12              | Horizontal         | Pass   |
| 9393.966   | -50.39     | -13         | -37.39          | -58.85           | 4.77            | 13.23              | Horizontal         | Pass   |
| 5086.523   | -50.49     | -13         | -37.49          | -56.42           | 4.26            | 10.19              | Vertical           | Pass   |
| 9441.913   | -50.11     | -13         | -37.11          | -58.56           | 4.79            | 13.24              | Vertical           | Pass   |
| 11963.89   | -52.55     | -13         | -39.55          | -60.76           | 5.05            | 13.26              | Vertical           | Pass   |

| LTE Band 12-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)  | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639   | -53.55     | -13         | -40.55          | -56.73           | 1.91            | 5.09               | Horizontal         | Pass   |
| 4920.955   | -50.78     | -13         | -37.78          | -56.59           | 4.21            | 10.02              | Horizontal         | Pass   |
| 9514.293   | -49.91     | -13         | -36.91          | -58.31           | 4.83            | 13.23              | Horizontal         | Pass   |
| 4958.678   | -50.67     | -13         | -37.67          | -56.52           | 4.23            | 10.08              | Vertical           | Pass   |
| 9514.293   | -49.84     | -13         | -36.84          | -58.24           | 4.83            | 13.23              | Vertical           | Pass   |
| 12429.54   | -52.55     | -13         | -39.55          | -60.48           | 5.3             | 13.23              | Vertical           | Pass   |



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| LTE Band 13-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)   | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639  | -53.57     | -13         | -40.57          | -56.75           | 1.91            | 5.09               | Horizontal         | Pass   |
| 5022.194  | -50.8      | -13         | -37.8           | -56.69           | 4.26            | 10.15              | Horizontal         | Pass   |
| 9490.104  | -50.08     | -13         | -37.08          | -58.5            | 4.82            | 13.24              | Horizontal         | Pass   |
| 5112.485  | -51.0      | -13         | -38.0           | -56.95           | 4.26            | 10.21              | Vertical           | Pass   |
| 9490.104  | -49.74     | -13         | -36.74          | -58.16           | 4.82            | 13.24              | Vertical           | Pass   |
| 10507.31  | -52.62     | -13         | -39.62          | -60.66           | 5.08            | 13.12              | Vertical           | Pass   |

| LTE Band 13-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)  | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639   | -54.31     | -13         | -41.31          | -57.49           | 1.91            | 5.09               | Horizontal         | Pass   |
| 4996.69  | -51.1      | -13         | -38.1           | -56.98           | 4.26            | 10.14              | Horizontal         | Pass   |
| 9514.293   | -49.86     | -13         | -36.86          | -58.26           | 4.83            | 13.23              | Horizontal         | Pass   |
| 4996.69  | -50.59     | -13         | -37.59          | -56.47           | 4.26            | 10.14              | Vertical           | Pass   |
| 9088.188   | -50.17     | -13         | -37.17          | -58.78           | 4.61            | 13.22              | Vertical           | Pass   |
| 12653.0  | -52.37     | -13         | -39.37          | -60.26           | 5.43            | 13.32              | Vertical           | Pass   |

| LTE Band 13-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)  | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639   | -53.69     | -13         | -40.69          | -56.87           | 1.91            | 5.09               | Horizontal         | Pass   |
| 4996.69  | -50.73     | -13         | -37.73          | -56.61           | 4.26            | 10.14              | Horizontal         | Pass   |
| 9370.083   | -49.85     | -13         | -36.85          | -58.32           | 4.76            | 13.23              | Horizontal         | Pass   |
| 4971.316   | -50.17     | -13         | -37.17          | -56.03           | 4.24            | 10.1               | Vertical           | Pass   |
| 9441.913   | -50.26     | -13         | -37.26          | -58.71           | 4.79            | 13.24              | Vertical           | Pass   |
| 10669.02   | -52.81     | -13         | -39.81          | -60.9            | 5.08            | 13.17              | Vertical           | Pass   |



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| LTE Band 17-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)   | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639  | -53.87     | -13         | -40.87          | -57.05           | 1.91            | 5.09               | Horizontal         | Pass   |
| 6851.185  | -50.82     | -13         | -37.82          | -57.57           | 4.19            | 10.94              | Horizontal         | Pass   |
| 9514.293  | -49.3      | -13         | -36.3           | -57.7            | 4.83            | 13.23              | Horizontal         | Pass   |
| 4971.316  | -51.16     | -13         | -38.16          | -57.02           | 4.24            | 10.1               | Vertical           | Pass   |
| 9393.966  | -49.25     | -13         | -36.25          | -57.71           | 4.77            | 13.23              | Vertical           | Pass   |
| 11027.98  | -51.89     | -13         | -38.89          | -60.09           | 5.07            | 13.27              | Vertical           | Pass   |

| LTE Band 17-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)  | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639   | -54.23     | -13         | -41.23          | -57.41           | 1.91            | 5.09               | Horizontal         | Pass   |
| 5112.485   | -51.21     | -13         | -38.21          | -57.16           | 4.26            | 10.21              | Horizontal         | Pass   |
| 9490.104   | -49.81     | -13         | -36.81          | -58.23           | 4.82            | 13.24              | Horizontal         | Pass   |
| 5164.807   | -51.44     | -13         | -38.44          | -57.43           | 4.25            | 10.24              | Vertical           | Pass   |
| 9393.966   | -50.28     | -13         | -37.28          | -58.74           | 4.77            | 13.23              | Vertical           | Pass   |
| 10999.95   | -52.9      | -13         | -39.9           | -61.1            | 5.07            | 13.27              | Vertical           | Pass   |

| LTE Band 17-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)  | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639   | -53.63     | -13         | -40.63          | -56.81           | 1.91            | 5.09               | Horizontal         | Pass   |
| 5022.194   | -49.98     | -13         | -36.98          | -55.87           | 4.26            | 10.15              | Horizontal         | Pass   |
| 9490.104   | -50.57     | -13         | -37.57          | -58.99           | 4.82            | 13.24              | Horizontal         | Pass   |
| 5009.426   | -50.66     | -13         | -37.66          | -56.55           | 4.26            | 10.15              | Vertical           | Pass   |
| 9228.06  | -49.61     | -13         | -36.61          | -58.15           | 4.68            | 13.22              | Vertical           | Pass   |
| 10139.45   | -52.89     | -13         | -39.89          | -60.87           | 5.08            | 13.06              | Vertical           | Pass   |



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| LTE Band 25-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)   | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639  | -54.03     | -13         | -41.03          | -57.21           | 1.91            | 5.09               | Horizontal         | Pass   |
| 5060.693  | -50.69     | -13         | -37.69          | -56.61           | 4.26            | 10.18              | Horizontal         | Pass   |
| 9514.293  | -50.07     | -13         | -37.07          | -58.47           | 4.83            | 13.23              | Horizontal         | Pass   |
| 4946.072  | -51.46     | -13         | -38.46          | -57.29           | 4.23            | 10.06              | Vertical           | Pass   |
| 9490.104  | -50.13     | -13         | -37.13          | -58.55           | 4.82            | 13.24              | Vertical           | Pass   |
| 10833.22  | -52.38     | -13         | -39.38          | -60.53           | 5.07            | 13.22              | Vertical           | Pass   |

| LTE Band 25-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)  | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639   | -53.94     | -13         | -40.94          | -57.12           | 1.91            | 5.09               | Horizontal         | Pass   |
| 5204.399   | -51.36     | -13         | -38.36          | -57.38           | 4.25            | 10.27              | Horizontal         | Pass   |
| 9465.979   | -50.19     | -13         | -37.19          | -58.63           | 4.8             | 13.24              | Horizontal         | Pass   |
| 5112.485   | -50.85     | -13         | -37.85          | -56.8            | 4.26            | 10.21              | Vertical           | Pass   |
| 9393.966   | -49.89     | -13         | -36.89          | -58.35           | 4.77            | 13.23              | Vertical           | Pass   |
| 10165.29   | -52.58     | -13         | -39.58          | -60.56           | 5.08            | 13.06              | Vertical           | Pass   |

| LTE Band 25-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)  | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639   | -53.91     | -13         | -40.91          | -57.09           | 1.91            | 5.09               | Horizontal         | Pass   |
| 5009.426   | -51.57     | -13         | -38.57          | -57.46           | 4.26            | 10.15              | Horizontal         | Pass   |
| 9370.083   | -50.13     | -13         | -37.13          | -58.6            | 4.76            | 13.23              | Horizontal         | Pass   |
| 4946.072   | -50.97     | -13         | -37.97          | -56.8            | 4.23            | 10.06              | Vertical           | Pass   |
| 9611.663   | -50.44     | -13         | -37.44          | -58.75           | 4.88            | 13.19              | Vertical           | Pass   |
| 10011.21   | -52.47     | -13         | -39.47          | -60.42           | 5.08            | 13.03              | Vertical           | Pass   |



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| LTE Band 26-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)   | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639  | -53.65     | -13         | -40.65          | -56.83           | 1.91            | 5.09               | Horizontal         | Pass   |
| 5009.426  | -50.96     | -13         | -37.96          | -56.85           | 4.26            | 10.15              | Horizontal         | Pass   |
| 9417.908  | -49.82     | -13         | -36.82          | -58.28           | 4.78            | 13.24              | Horizontal         | Pass   |
| 5009.426  | -51.33     | -13         | -38.33          | -57.22           | 4.26            | 10.15              | Vertical           | Pass   |
| 9441.913  | -50.77     | -13         | -37.77          | -59.22           | 4.79            | 13.24              | Vertical           | Pass   |
| 12272.34  | -52.51     | -13         | -39.51          | -60.54           | 5.21            | 13.24              | Vertical           | Pass   |

| LTE Band 26-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)  | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639   | -54.02     | -13         | -41.02          | -57.2            | 1.91            | 5.09               | Horizontal         | Pass   |
| 5022.194   | -51.26     | -13         | -38.26          | -57.15           | 4.26            | 10.15              | Horizontal         | Pass   |
| 7099.747   | -50.16     | -13         | -37.16          | -57.21           | 4.2             | 11.25              | Horizontal         | Pass   |
| 5086.523   | -51.39     | -13         | -38.39          | -57.32           | 4.26            | 10.19              | Vertical           | Pass   |
| 7099.747   | -50.16     | -13         | -37.16          | -57.21           | 4.2             | 11.25              | Vertical           | Pass   |
| 11370.05   | -52.55     | -13         | -39.55          | -60.74           | 5.06            | 13.25              | Vertical           | Pass   |

| LTE Band 26-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)  | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639   | -53.84     | -13         | -40.84          | -57.02           | 1.91            | 5.09               | Horizontal         | Pass   |
| 5112.485   | -50.32     | -13         | -37.32          | -56.27           | 4.26            | 10.21              | Horizontal         | Pass   |
| 9490.104   | -50.22     | -13         | -37.22          | -58.64           | 4.82            | 13.24              | Horizontal         | Pass   |
| 5164.807   | -50.97     | -13         | -37.97          | -56.96           | 4.25            | 10.24              | Vertical           | Pass   |
| 9538.543   | -50.1      | -13         | -37.1           | -58.48           | 4.84            | 13.22              | Vertical           | Pass   |
| 10833.22   | -52.76     | -13         | -39.76          | -60.91           | 5.07            | 13.22              | Vertical           | Pass   |



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| LTE Band 66-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)   | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639  | -53.86     | -13         | -40.86          | -57.04           | 1.91            | 5.09               | Horizontal         | Pass   |
| 4983.987  | -50.7      | -13         | -37.7           | -56.57           | 4.25            | 10.12              | Horizontal         | Pass   |
| 9490.104  | -50.68     | -13         | -37.68          | -59.1            | 4.82            | 13.24              | Horizontal         | Pass   |
| 5034.994  | -50.63     | -13         | -37.63          | -56.53           | 4.26            | 10.16              | Vertical           | Pass   |
| 9514.293  | -50.27     | -13         | -37.27          | -58.67           | 4.83            | 13.23              | Vertical           | Pass   |
| 11903.14  | -52.17     | -13         | -39.17          | -60.38           | 5.05            | 13.26              | Vertical           | Pass   |

| LTE Band 66-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)  | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639   | -54.02     | -13         | -41.02          | -57.2            | 1.91            | 5.09               | Horizontal         | Pass   |
| 5230.963   | -50.58     | -13         | -37.58          | -56.61           | 4.25            | 10.28              | Horizontal         | Pass   |
| 9465.979   | -50.35     | -13         | -37.35          | -58.79           | 4.8             | 13.24              | Horizontal         | Pass   |
| 5009.426   | -51.55     | -13         | -38.55          | -57.44           | 4.26            | 10.15              | Vertical           | Pass   |
| 9490.104   | -50.63     | -13         | -37.63          | -59.05           | 4.82            | 13.24              | Vertical           | Pass   |
| 10805.68   | -52.99     | -13         | -39.99          | -61.13           | 5.07            | 13.21              | Vertical           | Pass   |

| LTE Band 66-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)  | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639   | -54.03     | -13         | -41.03          | -57.21           | 1.91            | 5.09               | Horizontal         | Pass   |
| 5009.426   | -50.63     | -13         | -37.63          | -56.52           | 4.26            | 10.15              | Horizontal         | Pass   |
| 9370.083   | -50.6      | -13         | -37.6           | -59.07           | 4.76            | 13.23              | Horizontal         | Pass   |
| 5086.523   | -51.14     | -13         | -38.14          | -57.07           | 4.26            | 10.19              | Vertical           | Pass   |
| 9298.801   | -49.5      | -13         | -36.5           | -58.01           | 4.72            | 13.23              | Vertical           | Pass   |
| 11933.47   | -52.79     | -13         | -39.79          | -61.0            | 5.05            | 13.26              | Vertical           | Pass   |



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| LTE Band 71-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)   | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639  | -54.0      | -13         | -41.0           | -57.18           | 1.91            | 5.09               | Horizontal         | Pass   |
| 4983.987  | -51.66     | -13         | -38.66          | -57.53           | 4.25            | 10.12              | Horizontal         | Pass   |
| 9181.198  | -50.19     | -13         | -37.19          | -58.75           | 4.66            | 13.22              | Horizontal         | Pass   |
| 5099.487  | -51.6      | -13         | -38.6           | -57.54           | 4.26            | 10.2               | Vertical           | Pass   |
| 9538.543  | -50.21     | -13         | -37.21          | -58.59           | 4.84            | 13.22              | Vertical           | Pass   |
| 11112.52  | -53.48     | -13         | -40.48          | -61.67           | 5.07            | 13.26              | Vertical           | Pass   |

| LTE Band 71-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)  | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639   | -53.91     | -13         | -40.91          | -57.09           | 1.91            | 5.09               | Horizontal         | Pass   |
| 5138.579   | -50.75     | -13         | -37.75          | -56.73           | 4.25            | 10.23              | Horizontal         | Pass   |
| 9490.104   | -50.55     | -13         | -37.55          | -58.97           | 4.82            | 13.24              | Horizontal         | Pass   |
| 5151.676   | -51.4      | -13         | -38.4           | -57.38           | 4.25            | 10.23              | Vertical           | Pass   |
| 9417.908   | -50.27     | -13         | -37.27          | -58.73           | 4.78            | 13.24              | Vertical           | Pass   |
| 10750.81   | -52.29     | -13         | -39.29          | -60.42           | 5.07            | 13.2               | Vertical           | Pass   |

| LTE Band 71-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)  | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1374.639   | -53.9      | -13         | -40.9           | -57.08           | 1.91            | 5.09               | Horizontal         | Pass   |
| 5047.827   | -50.86     | -13         | -37.86          | -56.77           | 4.26            | 10.17              | Horizontal         | Pass   |
| 9393.966   | -50.64     | -13         | -37.64          | -59.1            | 4.77            | 13.23              | Horizontal         | Pass   |
| 4983.987   | -50.88     | -13         | -37.88          | -56.75           | 4.25            | 10.12              | Vertical           | Pass   |
| 9393.966   | -50.1      | -13         | -37.1           | -58.56           | 4.77            | 13.23              | Vertical           | Pass   |
| 10587.85   | -52.77     | -13         | -39.77          | -60.84           | 5.08            | 13.15              | Vertical           | Pass   |

Note: All modes have been tested and we found QPSK test mode has the worst test result. Only record the worst test result.



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## 7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2406002449AT

## 8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2406002449AT

- End of the Report -



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