



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100009002

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TEST REPORT

Application No.: SZCR2501000090MO
Applicant: Telit Communications S.p.A.
Address of Applicant: Via Stazione di Prosecco 5/b, 34010, Sgonico – Trieste, Italy
Manufacturer: Telit Communications S.p.A.
Address of Manufacturer: Via Stazione di Prosecco 5/b, 34010, Sgonico – Trieste, Italy
Factory: FUYU PRECISION COMPONENT CO., LTD
Address of Factory: Lot M1, Lot F and Lot T1 Quang Chau Industrial Zone, Van Trung Ward, Viet Yen Town, Bac Giang Province, Vietnam

Equipment Under Test (EUT):

EUT Name: Radio Module
Model No.: LE910Q1-SNG
Trade Mark: Telit Cinterion
FCC ID: R17LE910Q1SNG
Standard(s) : 47 CFR Part 2
47 CFR Part 22
47 CFR Part 24
47 CFR Part 27

Date of Receipt: 2025-01-07
Date of Test: 2025-01-11 to 2025-01-16
Date of Issue: 2025-01-17

| | |
|---------------------|-------------|
| Test Result: | Pass |
|---------------------|-------------|

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

Keny Xu

Keny Xu
EMC Laboratory Manager



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Shenzhen Branch EMC Laboratory

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| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2025-01-17 | | Original |
| | | | | |
| | | | | |

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



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2 Test Summary

| Test Item | FCC Rule No. | Requirements | Verdict |
|--|--|--|---------|
| Effective (Isotropic) Radiated Output Power Data | §2.1046 §22.913 §24.232 §27.50(b) §27.50(c) §27.50(d) | ERP≤ 7W(LTE Band 5) EIRP≤ 2W(LTE Band 2) ERP≤ 3W(LTE Band 13) ERP≤ 3W(LTE Band 12) EIRP≤ 1W(LTE Band 4,66) | PASS |
| Peak-Average Ratio | §22.913 §24.232 §27.50(a) §27.50(d) | ≤13dB | PASS |
| Bandwidth | §2.1049(h) | OBW: No limit EBW: No limit | PASS |
| Band Edge Compliance | §2.1051 §22.917 §24.238 §27.50(g) §27.50(h) §27.53(c) | ≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) ≤ -13dBm (LTE Band12) ≤ -13dBm (LTE Band4,66) Refer to clause 6.4 for LTE Band13 | PASS |
| Spurious emissions at antenna terminals | §2.1051 §22.917 §24.238 §27.50(g) §27.50(h) §27.53(c) | ≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) ≤ -13dBm (LTE Band12) ≤ -13dBm (LTE Band4,66) Refer to clause 6.5 for LTE Band13 | PASS |
| Field strength of spurious radiation | §2.1051 §22.917 §24.238 §27.50(g) §27.50(h) §27.53(c) | ≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) ≤ -13dBm (LTE Band12) ≤ -13dBm (LTE Band4,66) Refer to clause 6.6 for LTE Band13 | PASS |
| Frequency stability | §2.1055 §22.355 §24.235 §27.54 | ≤ ±2.5ppm. | PASS |

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4 General Information

4.1 Details of E.U.T.

| | |
|-------------------------------------|---|
| Power supply: | DC3.8V |
| Cable Loss (for RF conducted test): | Below 1GHz: 0.5dB, 1GHz~2GHz:0.7dB, Above 2GHz: 1dB |
| Sample Type: | Mobile production |
| LTE Operation Frequency Band: | LTE B2/4/5/12/13/66 |
| Modulation Type: | QPSK, 16QAM |
| LTE Power Class: | Level 3 |
| Antenna Type: | External Antenna |
| Antenna Gain: | LTE B2: 2.17dBi, B4: 2.17dBi, B5: 5.17dBi, B12: 3.17dBi, B13: 3.17dBi, B66: 2.17dBi |

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 Test Frequency

| Test mode: | Nominal Bandwidth (MHz) | RF Channel | | |
|------------|-------------------------|------------|------------|----------|
| | | Low (L) | Middle (M) | High (H) |
| | | MHz | MHz | MHz |
| LTE 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 |
| Test mode: | Nominal Bandwidth (MHz) | RF Channel | | |
| | | Low (L) | Middle (M) | High (H) |
| | | MHz | MHz | MHz |
| LTE Band 4 | 1.4 | 1710.7 | 1732.5 | 1754.3 |
| | 3 | 1711.5 | 1732.5 | 1751.5 |
| | 5 | 1712.5 | 1732.5 | 1752.5 |
| | 10 | 1715.0 | 1732.5 | 1750.0 |
| | 15 | 1717.5 | 1732.5 | 1747.5 |
| | 20 | 1720.0 | 1732.5 | 1745.0 |
| Test mode: | Nominal Bandwidth (MHz) | RF Channel | | |
| | | Low (L) | Middle (M) | High (H) |
| | | MHz | MHz | MHz |
| LTE Band 5 | 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 |



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| Test mode: | Nominal Bandwidth (MHz) | RF Channel | | |
|-----------------|-------------------------|------------|------------|----------|
| | | Low (L) | Middle (M) | High (H) |
| | | MHz | MHz | MHz |
| LTE 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 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 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 |

4.3 Test Environment

| Environment Parameter | Selected Values During Tests | |
|-----------------------|------------------------------|---------|
| Temperature: | TL | -30°C |
| | TN | +20°C |
| | TH | +50°C |
| Voltage: | VL | 3.4 Vdc |
| | VN | 3.8 Vdc |
| | VH | 4.2 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



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4.4 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|-----------------------------|-----------|------------|
| Debug board | Telit Communications S.p.A. | E248779 | -- |

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) |
| | | $\pm 4.4\text{dB}$ (Above 1GHz) |
| 8 | Temperature test | $\pm 1^\circ\text{C}$ |
| 9 | Humidity test | $\pm 3\%$ |
| 10 | Supply voltages | $\pm 1.5\%$ |
| 11 | Time | $\pm 3\%$ |



4.6 Test Location

All tests were performed at:

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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



5 Equipment List

| RF conducted test | | | | | |
|---|------------------------------|---------------|---------------|------------|---------------|
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date | Cal. Due date |
| Programmable DC Source | Chroma | 62024P-80-60 | SEM011-09 | 2024-07-10 | 2025-07-09 |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002 | SEM002-15 | 2024-03-20 | 2025-03-19 |
| MXA Signal Analyzer | KEYSIGHT | N9020B | SEM004-24 | 2024-03-14 | 2025-03-13 |
| Measurement Software | TST | TST PASS V2.0 | N/A | N/A | N/A |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2024-03-27 | 2025-03-26 |
| Universal Radio Communication Tester | Rohde & Schwarz | CMW 500 | SEM010-03 | 2024-03-27 | 2025-03-26 |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002 | SEM002-15 | 2024-03-19 | 2025-03-18 |
| Power Sensor | KEYSIGHT | U2021XA | SEM009-15 | 2024-03-20 | 2025-03-19 |

| 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 | 2024-09-24 | 2027-09-23 |
| 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 | 2024-09-18 | 2025-09-17 |
| 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 | 2024-08-09 | 2026-08-08 |
| Pre-Amplifier | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2024-03-15 | 2025-03-14 |
| Signal Generator(9kHz-40GHz) | N5173B | MY53270267 | Agilent | 2024-09-18 | 2025-09-17 |



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| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9120D | SEM003-32 | 2024-09-25 | 2027-09-24 |
| Pre-amplifier | Rohde & Schwarz | CH14-H052 | SEM005-17 | 2024-03-15 | 2025-03-14 |
| Substitution Antenna | Rohde & Schwarz | HF907 | SEM003-06 | 2024-08-06 | 2025-08-05 |
| Substitution Antenna | ETS-LINDGREN | 3160-09 | SEM003-12 | 2024-08-09 | 2026-08-08 |
| 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 | 2024-07-27 | 2025-07-26 |
| Humidity- Temperature Indicator | deli | 8838 | SEM002-33 | 2024-07-27 | 2025-07-26 |
| 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 Effective (Isotropic) Radiated Output Power Data

Test Requirement: §2.1046, §22.913, §24.232, §27.50(b), §27.50(c), §27.50(d),
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit:
 $ERP \leq 7W$ (LTE Band 5)
 $EIRP \leq 2W$ (LTE Band 2)
 $ERP \leq 3W$ (LTE Band 13)
 $ERP \leq 3W$ (LTE Band 12)
 $EIRP \leq 1W$ (LTE Band 4, 66)

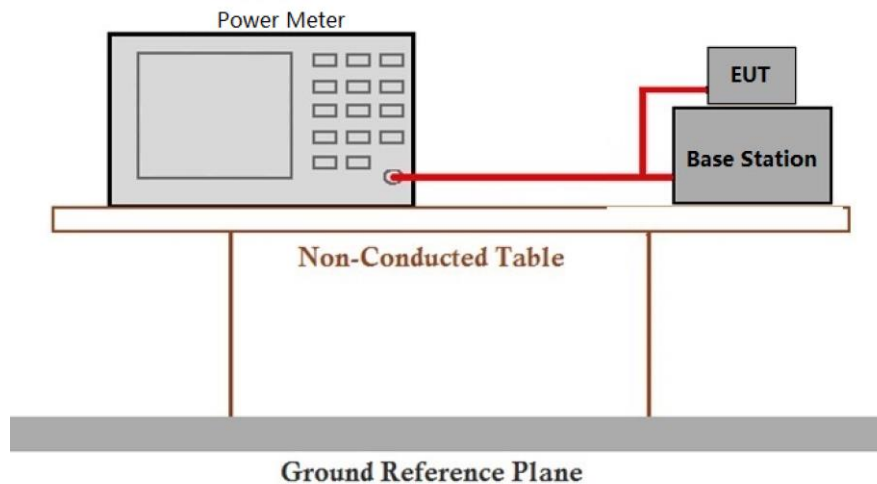
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 48.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode_Keep the EUT in transmitting mode

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

Please refer to Appendix for LTE test data.

6.2 Peak-Average Ratio

Test Requirement: §22.913, §24.232, §27.50(d), §27.50(d), §27.1507(d)
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: ≤13dB

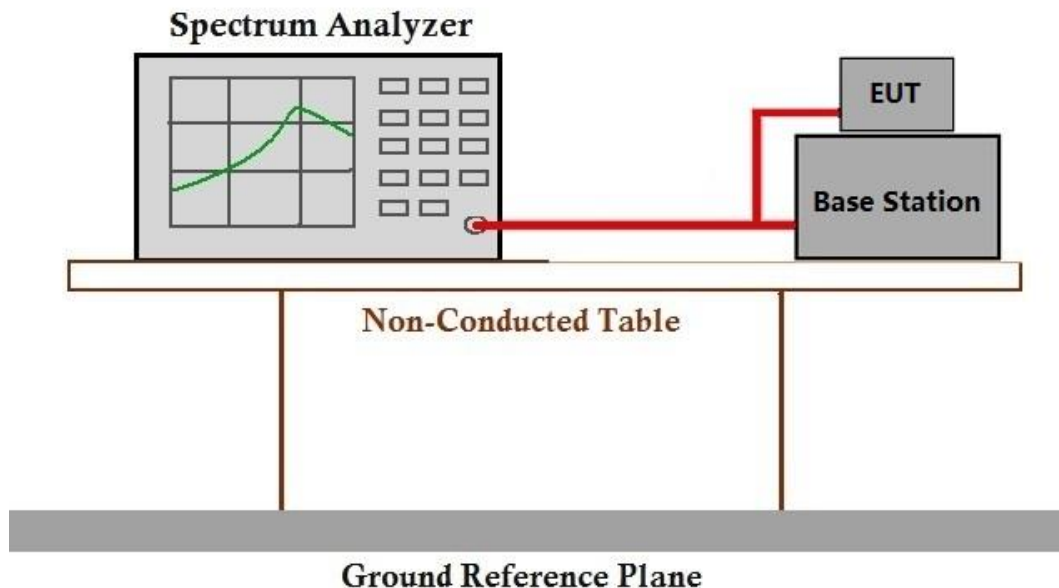
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 48.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode_Keep the EUT in transmitting mode

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

Please refer to Appendix for LTE test data.

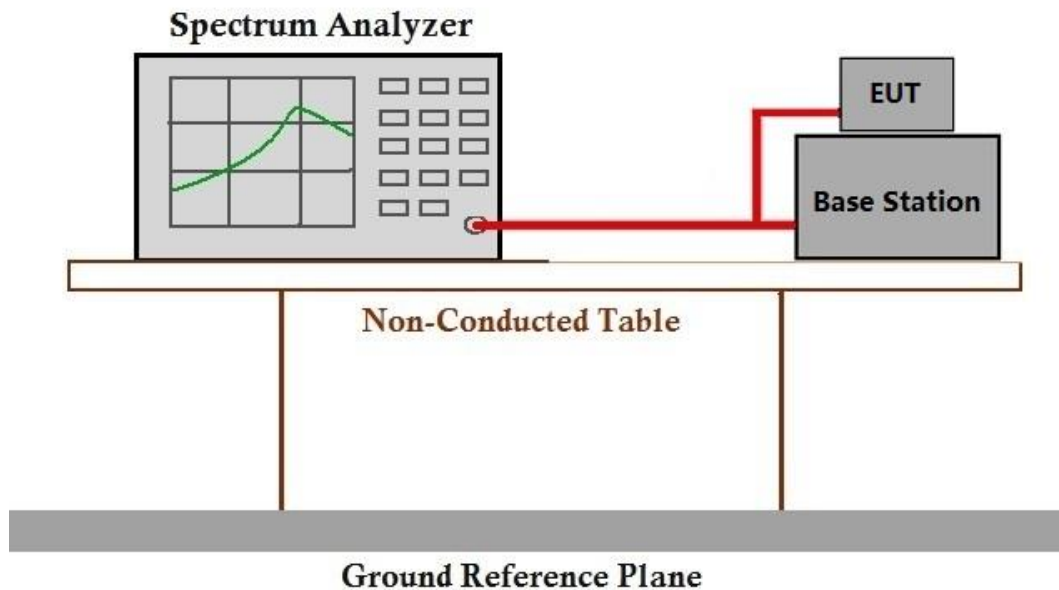
6.3 Bandwidth

Test Requirement: §2.1049(h)
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: OBW: No limit
 EBW: No limit

6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 20.5 °C Humidity: 48.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode 32: TX mode_Keep the EUT in transmitting mode

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

Please refer to Appendix for LTE test data.

6.4 Band Edge Compliance

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

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

Limit: ≤ -13dBm (**LTE Band2,4,5,12,66**)

For **Band 13**:

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;

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 operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz (-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals.

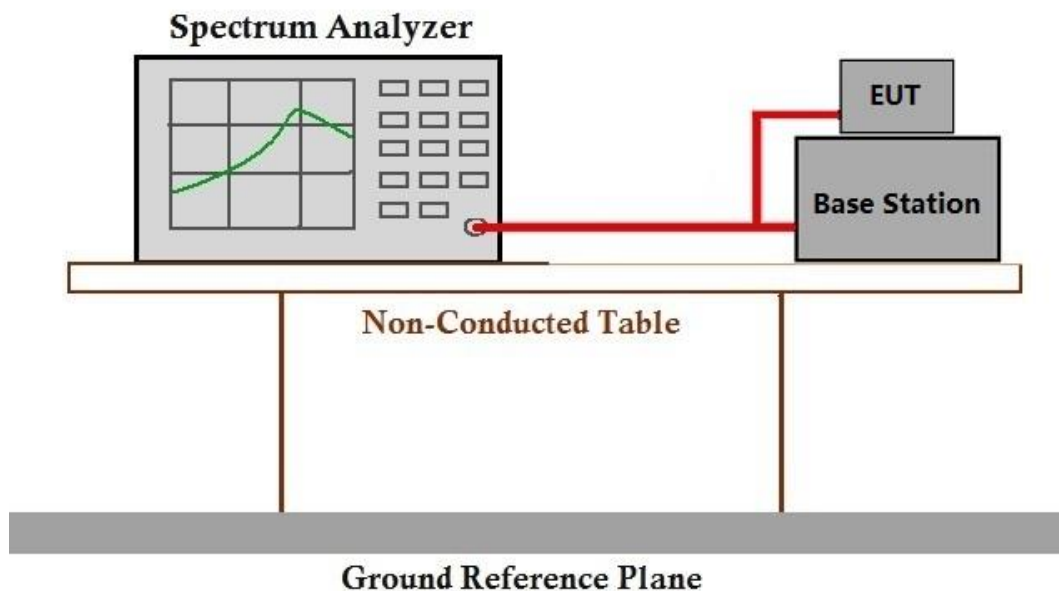
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 48.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode_Keep the EUT in transmitting mode

6.4.2 Test Setup Diagram



6.4.3 Measurement Data

Please refer to Appendix for LTE test data.

6.5 Spurious emissions at antenna terminals

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

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

Limit: ≤ -13dBm (LTE Band2,4,5,12,66)

For **Band 13**:

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;

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 operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz (-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals.

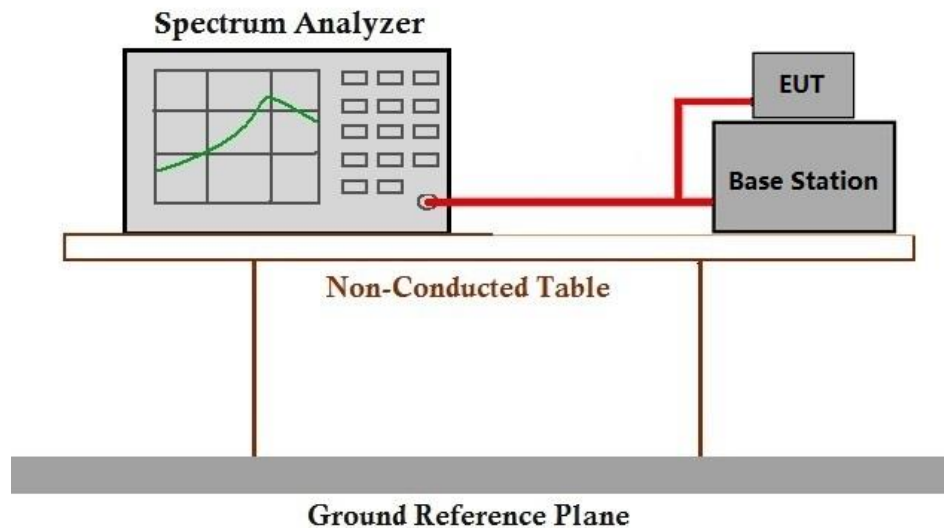
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 48.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode_Keep the EUT in transmitting mode

6.5.2 Test Setup Diagram



6.5.3 Measurement Data

Please refer to Appendix for LTE test data.

6.6 Field strength of spurious radiation

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

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

Limit: ≤ -13dBm (**LTE Band2,4,5,12,66**)

For **Band 13**:

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;

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 operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz (-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals.

6.6.1 E.U.T. Operation

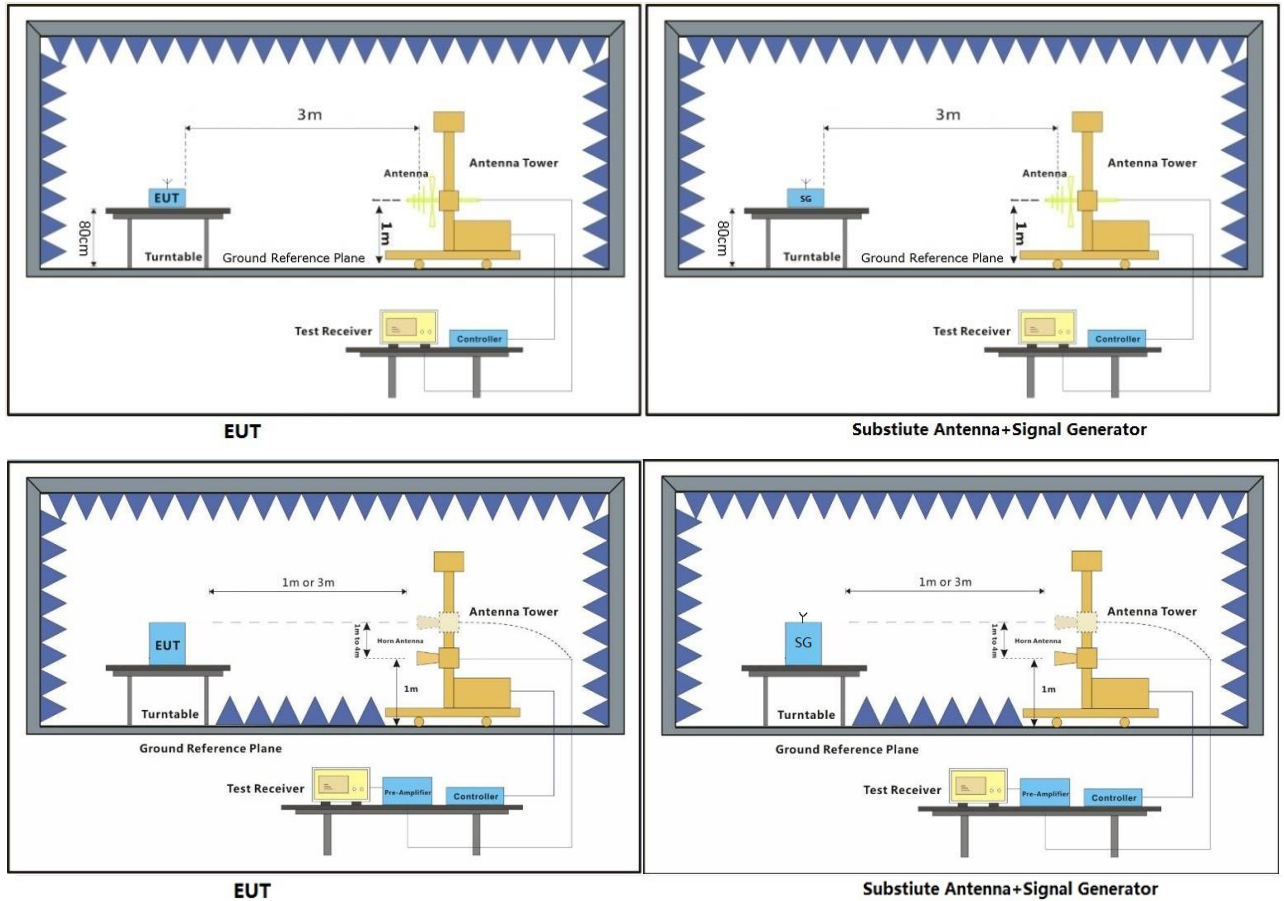
Operating Environment:

Temperature: 22.5 °C Humidity: 47.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode_Keep the EUT in transmitting mode



6.6.2 Test Setup Diagram



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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.



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| LTE Band 2-Low channel, Modulation: QPSK, Bandwidth:20MHz, 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 |
| 3702.0 | -58.6 | -13 | -45.6 | -63.62 | 3.42 | 8.44 | Horizontal | Pass |
| 5553.0 | -55.84 | -13 | -42.84 | -62.05 | 4.24 | 10.45 | Horizontal | Pass |
| 7404.0 | -55.95 | -13 | -42.95 | -63.36 | 4.21 | 11.62 | Horizontal | Pass |
| 3702.0 | -59.99 | -13 | -46.99 | -65.01 | 3.42 | 8.44 | Vertical | Pass |
| 5553.0 | -55.88 | -13 | -42.88 | -62.09 | 4.24 | 10.45 | Vertical | Pass |
| 7404.0 | -55.59 | -13 | -42.59 | -63.0 | 4.21 | 11.62 | Vertical | Pass |

| LTE Band 2-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 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 |
| 3742.0 | -58.97 | -13 | -45.97 | -64.01 | 3.45 | 8.49 | Horizontal | Pass |
| 5613.0 | -56.56 | -13 | -43.56 | -62.77 | 4.24 | 10.45 | Horizontal | Pass |
| 7484.0 | -55.82 | -13 | -42.82 | -63.32 | 4.22 | 11.72 | Horizontal | Pass |
| 3742.0 | -60.25 | -13 | -47.25 | -65.29 | 3.45 | 8.49 | Vertical | Pass |
| 5613.0 | -58.3 | -13 | -45.3 | -64.51 | 4.24 | 10.45 | Vertical | Pass |
| 7484.0 | -56.87 | -13 | -43.87 | -64.37 | 4.22 | 11.72 | Vertical | Pass |

| LTE Band 2-High channel, Modulation: QPSK, Bandwidth:20MHz, 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 |
| 3782.0 | -59.1 | -13 | -46.1 | -64.17 | 3.48 | 8.55 | Horizontal | Pass |
| 5673.0 | -56.64 | -13 | -43.64 | -62.86 | 4.23 | 10.45 | Horizontal | Pass |
| 7564.0 | -56.78 | -13 | -43.78 | -64.38 | 4.22 | 11.82 | Horizontal | Pass |
| 3782.0 | -60.27 | -13 | -47.27 | -65.34 | 3.48 | 8.55 | Vertical | Pass |
| 5673.0 | -57.62 | -13 | -44.62 | -63.84 | 4.23 | 10.45 | Vertical | Pass |
| 7564.0 | -55.92 | -13 | -42.92 | -63.52 | 4.22 | 11.82 | Vertical | Pass |



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| LTE Band 4-Low channel, Modulation: QPSK, Bandwidth:20MHz, 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 |
| 3422.0 | -58.88 | -13 | -45.88 | -63.62 | 3.24 | 7.98 | Horizontal | Pass |
| 5133.0 | -54.91 | -13 | -41.91 | -60.88 | 4.25 | 10.22 | Horizontal | Pass |
| 6844.0 | -55.41 | -13 | -42.41 | -62.15 | 4.19 | 10.93 | Horizontal | Pass |
| 3422.0 | -57.74 | -13 | -44.74 | -62.48 | 3.24 | 7.98 | Vertical | Pass |
| 5133.0 | -55.51 | -13 | -42.51 | -61.48 | 4.25 | 10.22 | Vertical | Pass |
| 6844.0 | -53.89 | -13 | -40.89 | -60.63 | 4.19 | 10.93 | Vertical | Pass |

| LTE Band 4-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 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 |
| 3447.0 | -58.38 | -13 | -45.38 | -63.16 | 3.26 | 8.04 | Horizontal | Pass |
| 5170.5 | -55.37 | -13 | -42.37 | -61.37 | 4.25 | 10.25 | Horizontal | Pass |
| 6894.0 | -55.64 | -13 | -42.64 | -62.44 | 4.19 | 10.99 | Horizontal | Pass |
| 3447.0 | -57.53 | -13 | -44.53 | -62.31 | 3.26 | 8.04 | Vertical | Pass |
| 5170.5 | -55.6 | -13 | -42.6 | -61.6 | 4.25 | 10.25 | Vertical | Pass |
| 6894.0 | -55.67 | -13 | -42.67 | -62.47 | 4.19 | 10.99 | Vertical | Pass |

| LTE Band 4-High channel, Modulation: QPSK, Bandwidth:20MHz, 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 |
| 3472.0 | -57.17 | -13 | -44.17 | -62.0 | 3.27 | 8.1 | Horizontal | Pass |
| 5208.0 | -53.73 | -13 | -40.73 | -59.75 | 4.25 | 10.27 | Horizontal | Pass |
| 6944.0 | -55.95 | -13 | -42.95 | -62.82 | 4.19 | 11.06 | Horizontal | Pass |
| 3472.0 | -58.83 | -13 | -45.83 | -63.66 | 3.27 | 8.1 | Vertical | Pass |
| 5208.0 | -55.22 | -13 | -42.22 | -61.24 | 4.25 | 10.27 | Vertical | Pass |
| 6944.0 | -55.15 | -13 | -42.15 | -62.02 | 4.19 | 11.06 | 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 |
| 1649.0 | -64.6 | -13 | -51.6 | -68.0 | 2.1 | 5.5 | Horizontal | Pass |
| 2473.5 | -62.03 | -13 | -49.03 | -65.15 | 2.64 | 5.76 | Horizontal | Pass |
| 3298.0 | -58.12 | -13 | -45.12 | -62.62 | 3.16 | 7.66 | Horizontal | Pass |
| 1649.0 | -66.38 | -13 | -53.38 | -69.78 | 2.1 | 5.5 | Vertical | Pass |
| 2473.5 | -63.07 | -13 | -50.07 | -66.19 | 2.64 | 5.76 | Vertical | Pass |
| 3298.0 | -58.89 | -13 | -45.89 | -63.39 | 3.16 | 7.66 | 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 |
| 1664.0 | -65.18 | -13 | -52.18 | -68.54 | 2.11 | 5.47 | Horizontal | Pass |
| 2496.0 | -61.66 | -13 | -48.66 | -64.81 | 2.66 | 5.81 | Horizontal | Pass |
| 3328.0 | -57.34 | -13 | -44.34 | -61.9 | 3.18 | 7.74 | Horizontal | Pass |
| 1664.0 | -66.45 | -13 | -53.45 | -69.81 | 2.11 | 5.47 | Vertical | Pass |
| 2496.0 | -62.66 | -13 | -49.66 | -65.81 | 2.66 | 5.81 | Vertical | Pass |
| 3328.0 | -58.95 | -13 | -45.95 | -63.51 | 3.18 | 7.74 | 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 |
| 1679.0 | -65.58 | -13 | -52.58 | -68.88 | 2.13 | 5.43 | Horizontal | Pass |
| 2518.5 | -62.33 | -13 | -49.33 | -65.52 | 2.67 | 5.86 | Horizontal | Pass |
| 3358.0 | -58.17 | -13 | -45.17 | -62.79 | 3.2 | 7.82 | Horizontal | Pass |
| 1679.0 | -66.01 | -13 | -53.01 | -69.31 | 2.13 | 5.43 | Vertical | Pass |
| 2518.5 | -63.96 | -13 | -50.96 | -67.15 | 2.67 | 5.86 | Vertical | Pass |
| 3358.0 | -57.62 | -13 | -44.62 | -62.24 | 3.2 | 7.82 | 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 |
| 1399.0 | -65.54 | -13 | -52.54 | -68.85 | 1.93 | 5.24 | Horizontal | Pass |
| 2098.5 | -64.67 | -13 | -51.67 | -67.12 | 2.41 | 4.86 | Horizontal | Pass |
| 2798.0 | -62.12 | -13 | -49.12 | -65.76 | 2.84 | 6.48 | Horizontal | Pass |
| 1399.0 | -65.78 | -13 | -52.78 | -69.09 | 1.93 | 5.24 | Vertical | Pass |
| 2098.5 | -64.95 | -13 | -51.95 | -67.4 | 2.41 | 4.86 | Vertical | Pass |
| 2798.0 | -62.66 | -13 | -49.66 | -66.3 | 2.84 | 6.48 | 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 |
| 1406.0 | -65.5 | -13 | -52.5 | -68.85 | 1.93 | 5.28 | Horizontal | Pass |
| 2109.0 | -64.44 | -13 | -51.44 | -66.9 | 2.42 | 4.88 | Horizontal | Pass |
| 2812.0 | -60.48 | -13 | -47.48 | -64.14 | 2.85 | 6.51 | Horizontal | Pass |
| 1406.0 | -66.06 | -13 | -53.06 | -69.41 | 1.93 | 5.28 | Vertical | Pass |
| 2109.0 | -64.57 | -13 | -51.57 | -67.03 | 2.42 | 4.88 | Vertical | Pass |
| 2812.0 | -62.62 | -13 | -49.62 | -66.28 | 2.85 | 6.51 | 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 |
| 1413.0 | -64.7 | -13 | -51.7 | -68.09 | 1.94 | 5.33 | Horizontal | Pass |
| 2119.5 | -63.91 | -13 | -50.91 | -66.4 | 2.42 | 4.91 | Horizontal | Pass |
| 2826.0 | -59.56 | -13 | -46.56 | -63.24 | 2.86 | 6.54 | Horizontal | Pass |
| 1413.0 | -67.18 | -13 | -54.18 | -70.57 | 1.94 | 5.33 | Vertical | Pass |
| 2119.5 | -66.01 | -13 | -53.01 | -68.5 | 2.42 | 4.91 | Vertical | Pass |
| 2826.0 | -62.8 | -13 | -49.8 | -66.48 | 2.86 | 6.54 | Vertical | Pass |

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| LTE Band 13-Low channel, Modulation: QPSK, Bandwidth:5MHz, 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 |
| 1558.5 | -64.64 | -13 | -51.64 | -68.33 | 2.04 | 5.73 | Horizontal | Pass |
| 2337.75 | -63.51 | -13 | -50.51 | -66.38 | 2.56 | 5.43 | Horizontal | Pass |
| 3117.0 | -57.66 | -13 | -44.66 | -61.83 | 3.04 | 7.21 | Horizontal | Pass |
| 1558.5 | -65.74 | -13 | -52.74 | -69.43 | 2.04 | 5.73 | Vertical | Pass |
| 2337.75 | -65.06 | -13 | -52.06 | -67.93 | 2.56 | 5.43 | Vertical | Pass |
| 3117.0 | -58.88 | -13 | -45.88 | -63.05 | 3.04 | 7.21 | Vertical | Pass |

| LTE Band 13-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 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 |
| 1559.5 | -65.56 | -40 | -25.56 | -69.25 | 2.04 | 5.73 | Horizontal | Pass |
| 2339.25 | -63.99 | -13 | -50.99 | -66.86 | 2.56 | 5.43 | Horizontal | Pass |
| 3119.0 | -59.16 | -13 | -46.16 | -63.34 | 3.04 | 7.22 | Horizontal | Pass |
| 1559.5 | -65.91 | -40 | -25.91 | -69.6 | 2.04 | 5.73 | Vertical | Pass |
| 2339.25 | -63.65 | -13 | -50.65 | -66.52 | 2.56 | 5.43 | Vertical | Pass |
| 3119.0 | -59.26 | -13 | -46.26 | -63.44 | 3.04 | 7.22 | Vertical | Pass |

| LTE Band 13-High channel, Modulation: QPSK, Bandwidth:5MHz, 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 |
| 1560.5 | -65.5 | -40 | -25.5 | -69.19 | 2.04 | 5.73 | Horizontal | Pass |
| 2340.75 | -64.16 | -13 | -51.16 | -67.04 | 2.56 | 5.44 | Horizontal | Pass |
| 3121.0 | -57.68 | -13 | -44.68 | -61.86 | 3.04 | 7.22 | Horizontal | Pass |
| 1560.5 | -66.57 | -40 | -26.57 | -70.26 | 2.04 | 5.73 | Vertical | Pass |
| 2340.75 | -64.95 | -13 | -51.95 | -67.83 | 2.56 | 5.44 | Vertical | Pass |
| 3121.0 | -58.8 | -13 | -45.8 | -62.98 | 3.04 | 7.22 | Vertical | Pass |

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| LTE Band 66-Low channel, Modulation: QPSK, Bandwidth:20MHz, 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 |
| 3423.4 | -57.14 | -13 | -44.14 | -61.88 | 3.24 | 7.98 | Horizontal | Pass |
| 5135.1 | -55.3 | -13 | -42.3 | -61.27 | 4.25 | 10.22 | Horizontal | Pass |
| 6846.8 | -55.67 | -13 | -42.67 | -62.41 | 4.19 | 10.93 | Horizontal | Pass |
| 3423.4 | -58.33 | -13 | -45.33 | -63.07 | 3.24 | 7.98 | Vertical | Pass |
| 5135.1 | -55.68 | -13 | -42.68 | -61.65 | 4.25 | 10.22 | Vertical | Pass |
| 6846.8 | -55.48 | -13 | -42.48 | -62.22 | 4.19 | 10.93 | Vertical | Pass |

| LTE Band 66-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 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 |
| 3472.0 | -58.18 | -13 | -45.18 | -63.01 | 3.27 | 8.1 | Horizontal | Pass |
| 5208.0 | -55.27 | -13 | -42.27 | -61.29 | 4.25 | 10.27 | Horizontal | Pass |
| 6944.0 | -55.57 | -13 | -42.57 | -62.44 | 4.19 | 11.06 | Horizontal | Pass |
| 3472.0 | -57.92 | -13 | -44.92 | -62.75 | 3.27 | 8.1 | Vertical | Pass |
| 5208.0 | -54.92 | -13 | -41.92 | -60.94 | 4.25 | 10.27 | Vertical | Pass |
| 6944.0 | -54.98 | -13 | -41.98 | -61.85 | 4.19 | 11.06 | Vertical | Pass |

| LTE Band 66-High channel, Modulation: QPSK, Bandwidth:20MHz, 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 |
| 3520.6 | -57.01 | -13 | -44.01 | -61.91 | 3.3 | 8.2 | Horizontal | Pass |
| 5280.9 | -57.39 | -13 | -44.39 | -63.45 | 4.25 | 10.31 | Horizontal | Pass |
| 7041.2 | -56.16 | -13 | -43.16 | -63.15 | 4.19 | 11.18 | Horizontal | Pass |
| 3520.6 | -57.46 | -13 | -44.46 | -62.36 | 3.3 | 8.2 | Vertical | Pass |
| 5280.9 | -57.23 | -13 | -44.23 | -63.29 | 4.25 | 10.31 | Vertical | Pass |
| 7041.2 | -54.86 | -13 | -41.86 | -61.85 | 4.19 | 11.18 | 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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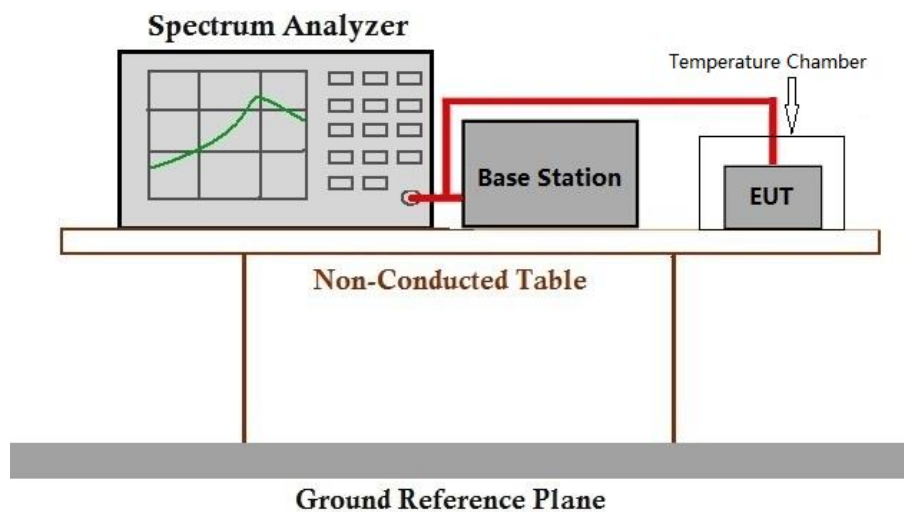
6.7 Frequency stability

Test Requirement: §2.1055, §22.355, §24.235, §27.54
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: $\leq \pm 2.5\text{ppm}$.

6.7.1 E.U.T. Operation

Operating Environment:
 Temperature: 20.5 °C Humidity: 48.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode 32: TX mode_Keep the EUT in transmitting mode

6.7.2 Test Setup Diagram



6.7.3 Measurement Data

Please refer to Appendix for LTE test data.

7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2501000090MO

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2501000090MO

- End of the Report -

