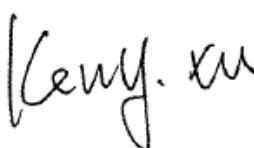


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TEST REPORT

| | |
|-----------------------------|---|
| Application No.: | SZEM2101001002CR |
| Applicant: | Hallofo BV |
| Address of Applicant: | Korianderlaan 38, Amstelveen, 1187EE Netherlands. |
| Manufacturer: | Hallofo BV |
| Address of Manufacturer: | Korianderlaan 38, Amstelveen, 1187EE Netherlands. |
| Factory: | Audo(Xiamen) Technology Co., Ltd |
| Address of factory: | 4th Floor,5th floor workshop, No.6 South Yanguang Road, Xinyang Street, Haicang District, Xiamen city |
| Equipment Under Test (EUT): | |
| EUT Name: | Rebel Cactus smart watch |
| Model No.: | Rebel Cactus play -1 |
| Trade Mark: | Rebel Cactus |
| FCC ID: | 2AY4Y-PLAY001A |
| Standard(s) : | 47 CFR Part 2 47 CFR Part 22 subpart H 47 CFR Part 24 subpart E 47 CFR Part 27 subpart C |
| Date of Receipt: | 2021-01-25 |
| Date of Test: | 2021-01-26 to 2021-02-02 |
| Date of Issue: | 2021-03-15 |
| Test Result: | Pass |

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



Keny Xu
EMC Laboratory Manager



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| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2021-03-15 | | Original |
| | | | | |
| | | | | |

| | | | |
|--------------------------|--|-----------------------------------|--|
| Authorized for issue by: | | | |
| | | | |
| | | Edison Li/Project Engineer | |
| | | | |
| | | Eric Fu/Reviewer | |

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2 Test Summary

| Test Item | FCC Rule No. | Requirements | Verdict |
|--|--|--|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046 §22.913 §24.232 §27.50(c) §27.50(d) §27.50(h) | ERP≤ 7W(LTE Band 5) EIRP≤ 2W(LTE Band 2) ERP≤ 3W(LTE Band 12) EIRP≤ 1W(LTE Band 4) EIRP≤ 2W(LTE Band 7) | PASS |
| Peak-Average Ratio | §22.913 §24.232 §27.50(d) | ≤13dB | PASS |
| Modulation Characteristics | §2.1047 | Digital modulation | PASS |
| Bandwidth | §2.1049(h) | OBW: No limit EBW: No limit | PASS |
| Band Edge Compliance | §2.1051 §22.917 §24.238 §27.53(g) §27.53(h) §27.53(m) | ≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) ≤ -13dBm (LTE Band12) ≤ -13dBm (LTE Band4) ≤ -25dBm(LTE Band7) | PASS |
| Spurious emissions at antenna terminals | §2.1051 §22.917 §24.238 §27.53(g) §27.53(h) §27.53(m) | ≤ -13dBm(LTE Band5) ≤ -13dBm(LTE Band2) ≤ -13dBm(LTE Band12) ≤ -13dBm(LTE Band4) ≤ -25dBm(LTE Band7) | PASS |
| Field strength of spurious radiation | §2.1051 §22.917 §24.238 §27.53(g) §27.53(h) §27.53(m) | ≤ -13dBm(LTE Band5) ≤ -13dBm(LTE Band2) ≤ -13dBm(LTE Band12) ≤ -13dBm(LTE Band4) ≤ -25dBm(LTE Band7) | 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: | DC 3.8V 650mAh rechargeable battery which charged by USB port |
| Cable(s): | DC cable:98cm unshielded |
| LTE Operation Frequency Band: | LTE FDD Band 2, 4, 5, 7, 12 |
| Modulation Type: | QPSK, 16QAM |
| LTE Power Class: | Level 3 |
| Antenna Type: | Integral |
| Antenna Gain: | LTE band 2: 0.8dBi; band 4: 0.8dBi; band 5: 0.3dBi; band 7: 1.2dBi; band 12: 0.3dBi; |
| Extreme temp. Tolerance: | -30°C to +50°C |
| Extreme vol. Limits: | 3.4VDC to 4.35VDC (nominal: 3.8VDC) |

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4.2 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 | 1753.5 |
| | 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 |



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Report No.: SZEM210100100206
Page: 9 of 28**4.3 Test Environment**

| Environment Parameter | Selected Values During Tests | |
|-----------------------|------------------------------|--------|
| Relative Humidity | 52% | |
| Atmospheric Pressure: | 1015Pa | |
| Temperature: | TN | 20 °C |
| | VL | 3.4 V |
| Voltage: | VN | 3.8 V |
| | VH | 4.35 V |

NOTE: VL= lower extreme test voltage

VN= nominal voltage

VH= upper extreme test voltage

TN= normal temperature

4.4 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|-----------------|----------------|------------------|
| Adapter | Provided by SGS | A1357 W010A051 | REF. No. SEA0500 |

4.5 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|--|
| 1 | Radio Frequency | 7.25 x 10 ⁻⁸ |
| 2 | Duty cycle | 0.37% |
| 3 | Occupied Bandwidth | 3% |
| 4 | RF conducted power | 0.75dB |
| 5 | RF power density | 2.84dB |
| 6 | Conducted Spurious emissions | 0.75dB |
| 7 | RF Radiated power | 4.5dB (below 1GHz) 4.8dB (above 1GHz) |
| 8 | Radiated Spurious emission test | 4.5dB (Below 1GHz) 4.8dB (Above 1GHz) |
| 9 | Temperature test | 1°C |
| 10 | Humidity test | 3% |
| 11 | Supply voltages | 1.5% |
| 12 | Time | 3% |

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4.6 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, 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**

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. 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: CN1178**

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

- 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

| RF conducted test | | | | | |
|--------------------------------------|----------------------|--------------------------|---------------|------------|---------------|
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date | Cal. Due date |
| DC Power Supply | ZhaoXin | PS-3005D | SEM011-05 | 2020-09-23 | 2021-09-22 |
| Spectrum Analyzer (20Hz-43GHz) | Rohde & Schwarz | FSU43 | SEM004-08 | 2020-04-11 | 2021-04-10 |
| Signal Analyzer (10Hz-40GHz) | Rohde & Schwarz | FSV40 | SEM008-04 | 2020-03-31 | 2021-03-30 |
| Measurement Software | JS Tonscend | JS1120-2 BT/WIFI V2.6 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM031-01 | 2020-07-10 | 2021-07-09 |
| Attenuator | Weinschel Associates | WA41 | SEM021-09 | N/A | N/A |
| Universal Radio Communication Tester | Rohde & Schwarz | CMW 500 | SEM010-03 | 2020-03-31 | 2021-03-30 |
| Power Sensor | KEYSIGHT | U2021XA | SEM009-13 | 2020-04-11 | 2021-04-10 |

| RE in Chamber | | | | | |
|--------------------------------------|-----------------|--------------------|---------------|------------|---------------|
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date | Cal. Due date |
| Shielding Room | SAEMC | MSR733 | SEM001-09 | 2019-06-13 | 2022-06-12 |
| DC Power Supply | Rohde & Schwarz | NGSM 32/10 | SEM011-04 | 2020-03-24 | 2021-03-23 |
| Spectrum Analyzer | Rohde & Schwarz | FSU43 | SEM004-08 | 2020-04-01 | 2021-03-31 |
| Signal Generator | KEYSIGHT | N5173B | SEM006-05 | 2020-09-23 | 2021-09-22 |
| Measurement Software | TST | TST PASS V1.0.5 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM031-02 | 2020-07-10 | 2021-07-09 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2020-05-21 | 2021-05-20 |
| Universal Radio Communication Tester | Rohde & Schwarz | CMW 500 | SEM010-03 | 2020-03-31 | 2021-03-30 |
| Substitution Antenna | ETS-Lindgren | 3142C | SEM003-01 | 2020-06-26 | 2023-06-25 |
| Signal Generator | R&S | SMA100A | 102174 | 2020-07-10 | 2021-07-09 |

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RE in Chamber

| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date | Cal. Due date |
|--------------------------------------|----------------------|-----------------|---------------|------------|---------------|
| 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEM001-01 | 2020-08-04 | 2023-08-03 |
| MXE EMI Receiver (20Hz-8.4GHz) | Agilent Technologies | N9038A | SEM004-05 | 2020-09-23 | 2021-09-22 |
| BiConiLog Antenna (26-3000MHz) | ETS-LINDGREN | 3142C | SEM003-01 | 2020-06-26 | 2023-06-25 |
| Pre-amplifier (0.1-1300MHz) | Agilent Technologies | 8447D | SEM005-01 | 2020-03-31 | 2021-03-30 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM025-01 | 2020-07-10 | 2021-07-09 |
| Universal Radio Communication Tester | Rohde & Schwarz | CMW 500 | SEM010-03 | 2020-03-31 | 2021-03-30 |
| Substitution Antenna | ETS-Lindgren | 3142C | SEM003-01 | 2020-06-26 | 2023-06-25 |
| Signal Generator | R&S | SMA100A | 102174 | 2020-07-10 | 2021-07-09 |

General used equipment

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|---------------------------------|---|----------|--------------|------------|--------------|
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-04 | 2020-09-15 | 2021-09-14 |
| Humidity/ Temperature Indicator | Mingle | N/A | SEM002-08 | 2020-09-15 | 2021-09-14 |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2020-04-07 | 2021-04-06 |

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6 Radio Spectrum Matter Test Results

6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §22.913, §24.232, §27.50(c), §27.50(d), §27.50(h)

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

Limit: $ERP \leq 7W$ (LTE Band 5)

$EIRP \leq 2W$ (LTE Band 2)

$ERP \leq 3W$ (LTE Band 12)

$EIRP \leq 1W$ (LTE Band 4)

$EIRP \leq 2W$ (LTE Band 7)

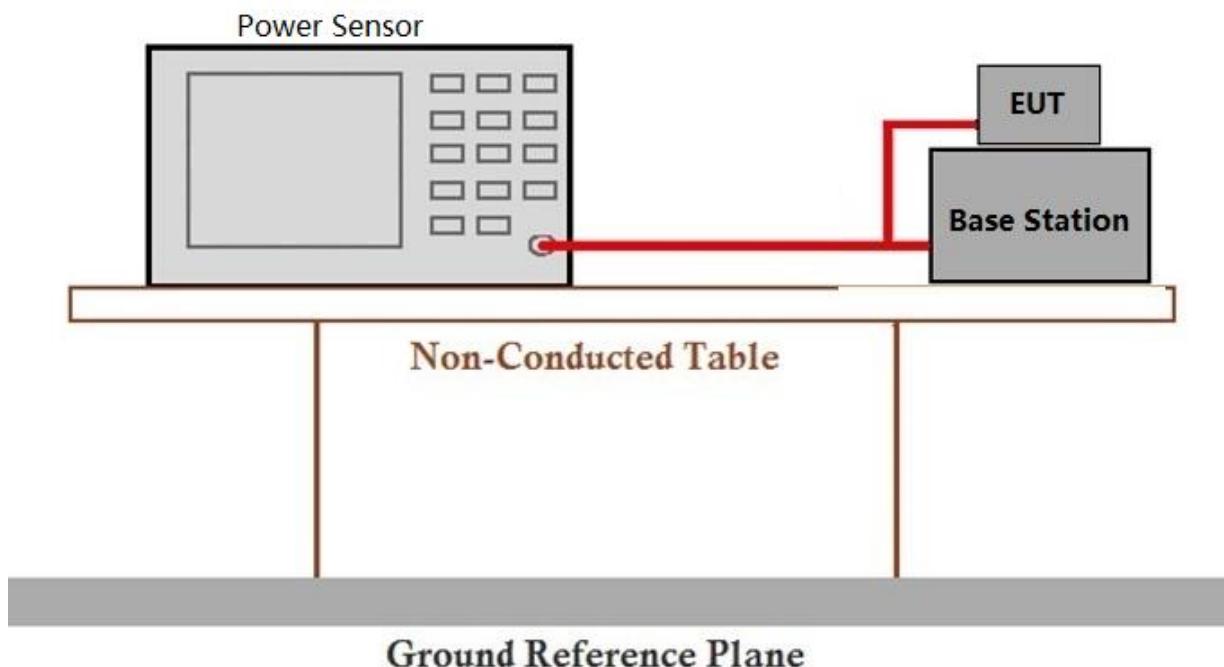
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 26.1 °C Humidity: 43.2 % RH Atmospheric Pressure: 1010 mbar

Test mode 21: Tx mode, Keep the EUT in transmitting mode.

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

Please refer to Appendix C_LTE_4G_RF power



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6.2 Peak-Average Ratio

Test Requirement: §22.913, §24.232, §27.50(d)

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

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

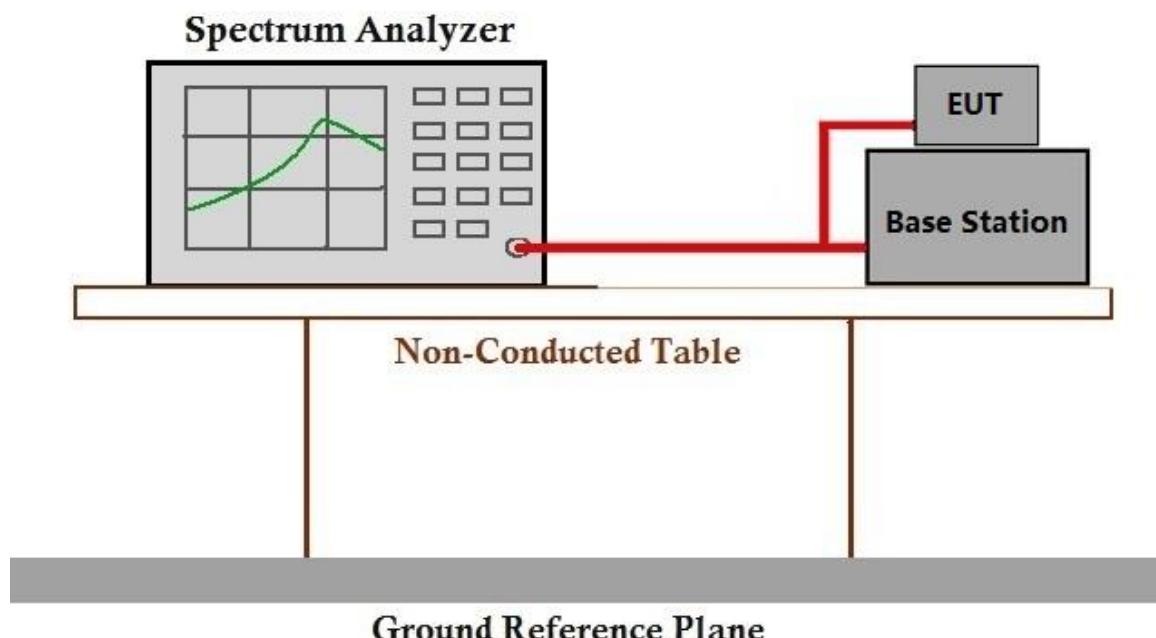
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 26.1 °C Humidity: 43.2 % RH Atmospheric Pressure: 1010 mbar

Test mode 21: Tx mode. Keep the EUT in transmitting mode.

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

Please refer to Appendix C LTE 4G Peak-Average Ratio

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6.3 Bandwidth

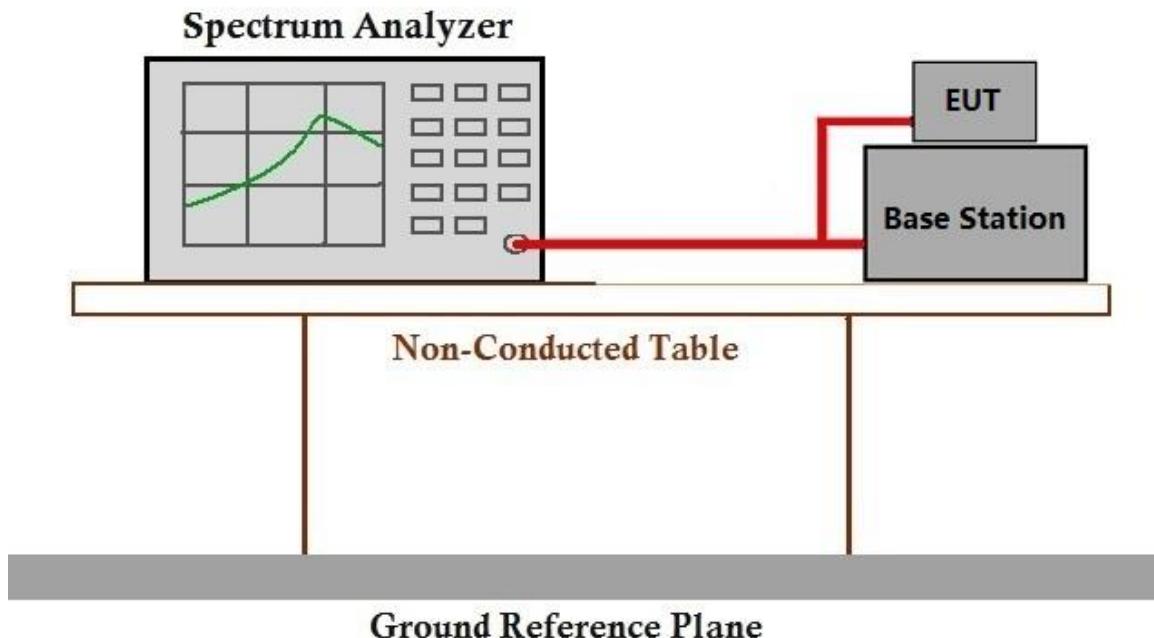
Test Requirement: §2.1049(h)
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: OBW: No limit
EBW: No limit

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 26.1 °C Humidity: 43.2 % RH Atmospheric Pressure: 1010 mbar
Test mode 21: Tx mode, Keep the EUT in transmitting mode.

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

Please refer to Appendix C_LTE_4G_99% & 26dB Bandwidth

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6.4 Band Edge Compliance

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

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

Limit: ≤ -13dBm (LTE Band2,4,5,12)

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. (LTE Band7).

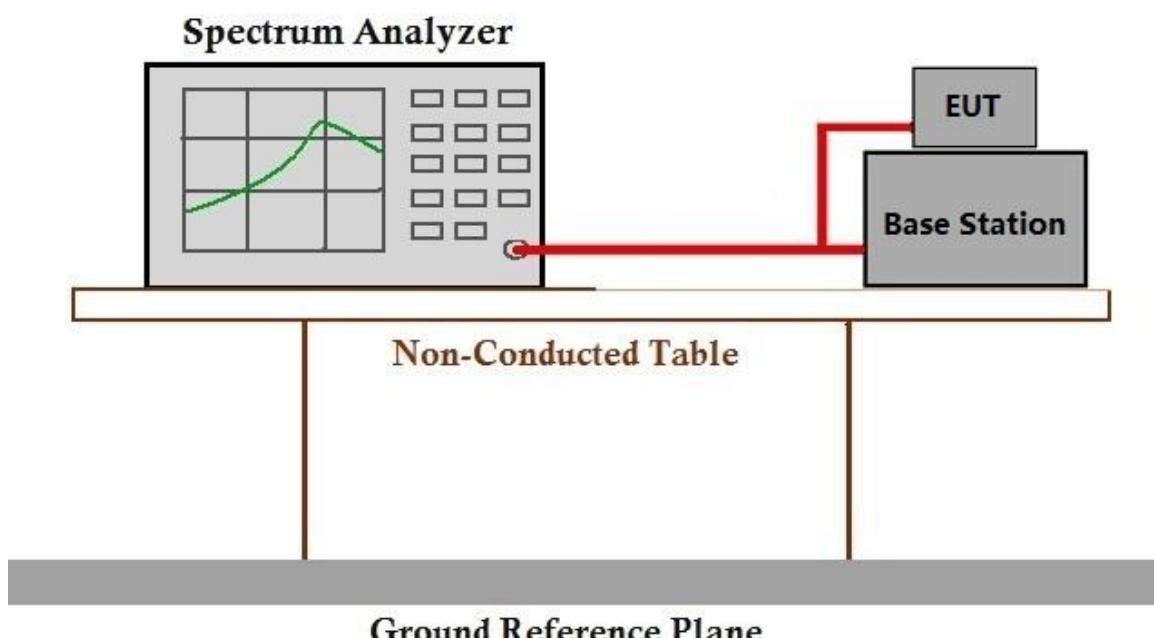
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 26.1 °C Humidity: 43.2 % RH Atmospheric Pressure: 1010 mbar

Test mode 21: Tx mode, Keep the EUT in transmitting mode.

6.4.2 Test Setup Diagram



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6.4.3 Measurement Data

Please refer to Appendix C_LTE_4G_Spurious Emission at antenna port



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6.5 Spurious emissions at antenna terminals

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

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

Limit: ≤ -13dBm(LTE Band5)

≤ -13dBm(LTE Band2)

≤ -13dBm(LTE Band12)

≤ -13dBm(LTE Band4)

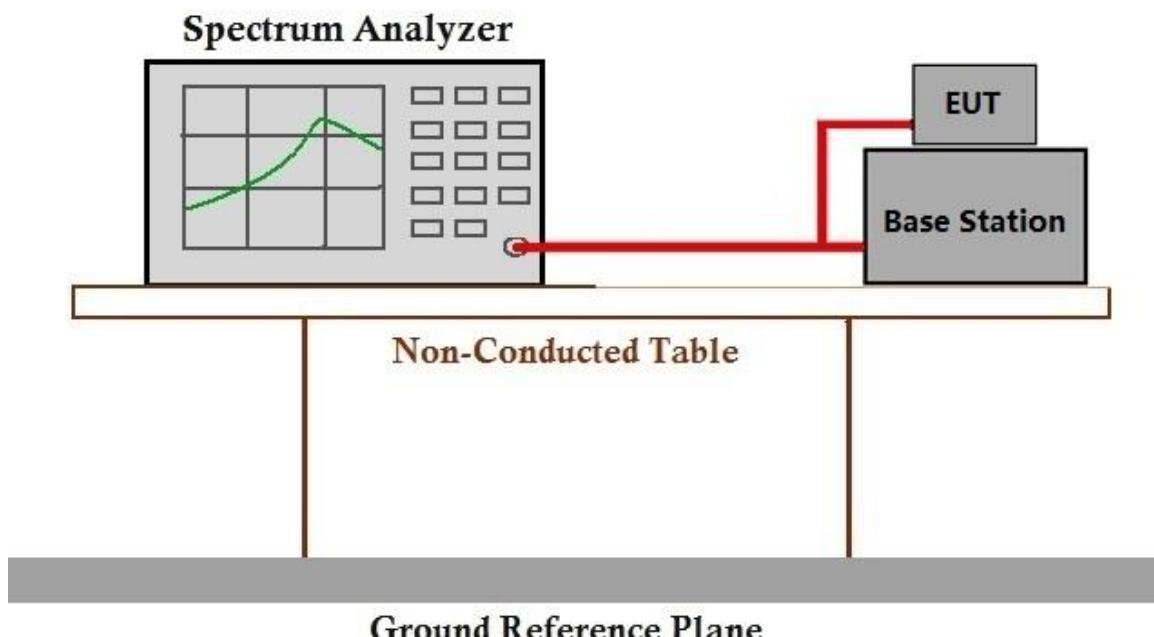
≤ -25dBm(LTE Band7)

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 26.1 °C Humidity: 43.2 % RH Atmospheric Pressure: 1010 mbar

Test mode 21: Tx mode, Keep the EUT in transmitting mode.

6.5.2 Test Setup Diagram**6.5.3 Measurement Data**

Please refer to Appendix C_LTE_4G_Spurious Emission at antenna port

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6.6 Field strength of spurious radiation

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

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

Limit: $\leq -13\text{dBm}$ (LTE Band5)

$\leq -13\text{dBm}$ (LTE Band2)

$\leq -13\text{dBm}$ (LTE Band12)

$\leq -13\text{dBm}$ (LTE Band4)

$\leq -25\text{dBm}$ (LTE Band7)

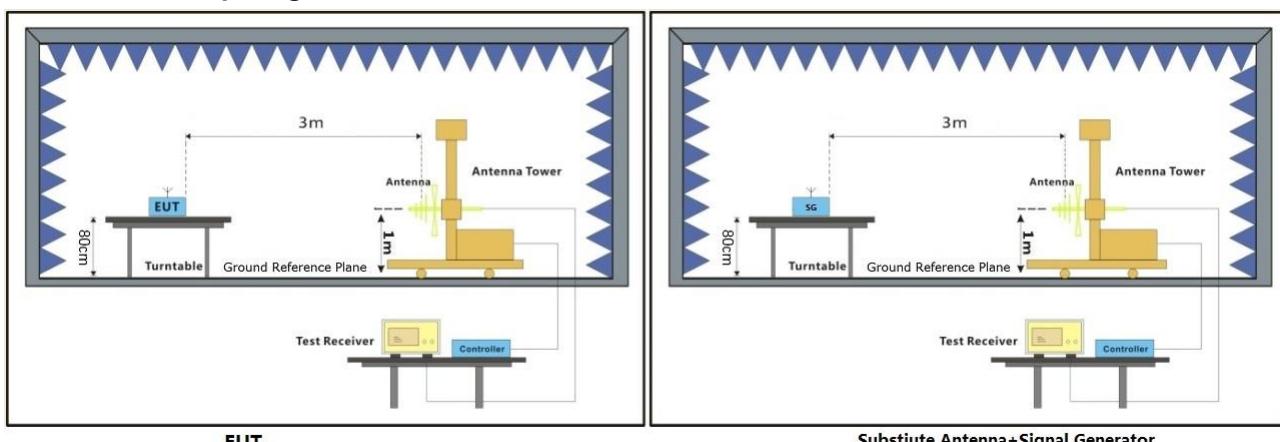
6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 26.1 °C Humidity: 43.2 % RH Atmospheric Pressure: 1010 mbar

Test mode 21: 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 2-20M Low channel, Modulation: QPSK, 1 RB | | | | | | | | |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3702 | -32.57 | -13 | -19.57 | -39.46 | 0.71 | 7.6 | Horizontal | Pass |
| 5553 | -42.18 | -13 | -29.18 | -51.63 | 0.85 | 10.3 | Horizontal | Pass |
| 7404 | -38.66 | -13 | -25.66 | -50.56 | 1 | 12.9 | Horizontal | Pass |
| 3702 | -32.18 | -13 | -19.18 | -39.07 | 0.71 | 7.6 | Vertical | Pass |
| 5553 | -40.5 | -13 | -27.5 | -49.95 | 0.85 | 10.3 | Vertical | Pass |
| 7404 | -42.13 | -13 | -29.13 | -54.03 | 1 | 12.9 | Vertical | Pass |

| LTE Band 2-20M Middle channel, Modulation: QPSK, 1 RB | | | | | | | | |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3742 | -34.62 | -13 | -21.62 | -41.51 | 0.71 | 7.6 | Horizontal | Pass |
| 5613 | -43.09 | -13 | -30.09 | -52.54 | 0.85 | 10.3 | Horizontal | Pass |
| 7484 | -41.2 | -13 | -28.2 | -53.1 | 1 | 12.9 | Horizontal | Pass |
| 3742 | -32.69 | -13 | -19.69 | -39.58 | 0.71 | 7.6 | Vertical | Pass |
| 5613 | -44.68 | -13 | -31.68 | -54.13 | 0.85 | 10.3 | Vertical | Pass |
| 7484 | -41.85 | -13 | -28.85 | -53.75 | 1 | 12.9 | Vertical | Pass |

| LTE Band 2-20M High channel, Modulation: QPSK, 1 RB | | | | | | | | |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3782 | -33.72 | -13 | -20.72 | -40.61 | 0.71 | 7.6 | Horizontal | Pass |
| 5673 | -43.99 | -13 | -30.99 | -53.44 | 0.85 | 10.3 | Horizontal | Pass |
| 7564 | -42.65 | -13 | -29.65 | -54.86 | 0.99 | 13.2 | Horizontal | Pass |
| 3782 | -33.13 | -13 | -20.13 | -40.02 | 0.71 | 7.6 | Vertical | Pass |
| 5673 | -42.04 | -13 | -29.04 | -51.49 | 0.85 | 10.3 | Vertical | Pass |
| 7564 | -40.79 | -13 | -27.79 | -53 | 0.99 | 13.2 | Vertical | Pass |

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| LTE Band 4-20M Low channel, Modulation: QPSK, 1 RB | | | | | | | | |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3422 | -34.91 | -13 | -21.91 | -40.46 | 0.65 | 6.2 | Horizontal | Pass |
| 5133 | -45.06 | -13 | -32.06 | -53.84 | 0.82 | 9.6 | Horizontal | Pass |
| 6844 | -44.39 | -13 | -31.39 | -55.24 | 0.95 | 11.8 | Horizontal | Pass |
| 3422 | -34.77 | -13 | -21.77 | -40.32 | 0.65 | 6.2 | Vertical | Pass |
| 5133 | -45.78 | -13 | -32.78 | -54.56 | 0.82 | 9.6 | Vertical | Pass |
| 6844 | -43.74 | -13 | -30.74 | -54.59 | 0.95 | 11.8 | Vertical | Pass |

| LTE Band 4-20M Middle channel, Modulation: QPSK, 1 RB | | | | | | | | |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3447 | -35.94 | -13 | -22.94 | -41.49 | 0.65 | 6.2 | Horizontal | Pass |
| 5170.5 | -45.79 | -13 | -32.79 | -54.57 | 0.82 | 9.6 | Horizontal | Pass |
| 6894 | -44.69 | -13 | -31.69 | -55.54 | 0.95 | 11.8 | Horizontal | Pass |
| 3447 | -36.48 | -13 | -23.48 | -42.03 | 0.65 | 6.2 | Vertical | Pass |
| 5170.5 | -43.97 | -13 | -30.97 | -52.75 | 0.82 | 9.6 | Vertical | Pass |
| 6894 | -42.1 | -13 | -29.1 | -52.95 | 0.95 | 11.8 | Vertical | Pass |

| LTE Band 4-20M High channel, Modulation: QPSK, 1 RB | | | | | | | | |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3472 | -35.99 | -13 | -22.99 | -41.54 | 0.65 | 6.2 | Horizontal | Pass |
| 5208 | -45.2 | -13 | -32.2 | -53.98 | 0.82 | 9.6 | Horizontal | Pass |
| 6944 | -41 | -13 | -28 | -51.85 | 0.95 | 11.8 | Horizontal | Pass |
| 3472 | -32.99 | -13 | -19.99 | -38.54 | 0.65 | 6.2 | Vertical | Pass |
| 5208 | -44.64 | -13 | -31.64 | -53.42 | 0.82 | 9.6 | Vertical | Pass |
| 6944 | -41.76 | -13 | -28.76 | -52.61 | 0.95 | 11.8 | Vertical | Pass |

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FDD LTE Band 5-Low channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB

| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 1649 | -48.84 | -13 | -35.84 | -54.32 | 0.52 | 6 | Horizontal | Pass |
| 2473.5 | -47.01 | -13 | -34.01 | -52.28 | 0.53 | 5.8 | Horizontal | Pass |
| 3298 | -41.86 | -13 | -28.86 | -47.41 | 0.65 | 6.2 | Horizontal | Pass |
| 1649 | -46.59 | -13 | -33.59 | -52.07 | 0.52 | 6 | Vertical | Pass |
| 2473.5 | -45.35 | -13 | -32.35 | -50.62 | 0.53 | 5.8 | Vertical | Pass |
| 3298 | -43.21 | -13 | -30.21 | -48.76 | 0.65 | 6.2 | Vertical | Pass |

FDD LTE Band 5-Middle channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB

| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 1664 | -47.04 | -13 | -34.04 | -52.52 | 0.52 | 6 | Horizontal | Pass |
| 2496 | -45.75 | -13 | -32.75 | -51.02 | 0.53 | 5.8 | Horizontal | Pass |
| 3328 | -42.6 | -13 | -29.6 | -48.15 | 0.65 | 6.2 | Horizontal | Pass |
| 1664 | -47.22 | -13 | -34.22 | -52.7 | 0.52 | 6 | Vertical | Pass |
| 2496 | -47.38 | -13 | -34.38 | -52.65 | 0.53 | 5.8 | Vertical | Pass |
| 3328 | -40.52 | -13 | -27.52 | -46.07 | 0.65 | 6.2 | Vertical | Pass |

FDD LTE Band 5-High channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB

| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 1679 | -49.18 | -13 | -36.18 | -54.66 | 0.52 | 6 | Horizontal | Pass |
| 2518.5 | -46.83 | -13 | -33.83 | -51.54 | 0.59 | 5.3 | Horizontal | Pass |
| 3358 | -42.53 | -13 | -29.53 | -48.08 | 0.65 | 6.2 | Horizontal | Pass |
| 1679 | -48.59 | -13 | -35.59 | -54.07 | 0.52 | 6 | Vertical | Pass |
| 2518.5 | -46.01 | -13 | -33.01 | -50.72 | 0.59 | 5.3 | Vertical | Pass |
| 3358 | -44.91 | -13 | -31.91 | -50.46 | 0.65 | 6.2 | Vertical | Pass |

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| FDD LTE Band 7-Low channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB | | | | | | | | |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 5002 | -49.84 | -25 | -24.84 | -58.62 | 0.82 | 9.6 | Horizontal | Pass |
| 7503 | -47.41 | -25 | -22.41 | -59.62 | 0.99 | 13.2 | Horizontal | Pass |
| 10004 | -44.62 | -25 | -19.62 | -56.06 | 1.26 | 12.7 | Horizontal | Pass |
| 5002 | -48.68 | -25 | -23.68 | -57.46 | 0.82 | 9.6 | Vertical | Pass |
| 7503 | -46.98 | -25 | -21.98 | -59.19 | 0.99 | 13.2 | Vertical | Pass |
| 10004 | -43.58 | -25 | -18.58 | -55.02 | 1.26 | 12.7 | Vertical | Pass |

| FDD LTE Band 7-Middle channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB | | | | | | | | |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 5052 | -48.37 | -25 | -23.37 | -57.15 | 0.82 | 9.6 | Horizontal | Pass |
| 7578 | -47.55 | -25 | -22.55 | -59.76 | 0.99 | 13.2 | Horizontal | Pass |
| 10104 | -43.8 | -25 | -18.8 | -55.24 | 1.26 | 12.7 | Horizontal | Pass |
| 5052 | -49.25 | -25 | -24.25 | -58.03 | 0.82 | 9.6 | Vertical | Pass |
| 7578 | -47.6 | -25 | -22.6 | -59.81 | 0.99 | 13.2 | Vertical | Pass |
| 10104 | -44.3 | -25 | -19.3 | -55.74 | 1.26 | 12.7 | Vertical | Pass |

| FDD LTE Band 7-High channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB | | | | | | | | |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 5102 | -49.83 | -25 | -24.83 | -58.61 | 0.82 | 9.6 | Horizontal | Pass |
| 7653 | -46.1 | -25 | -21.1 | -58.31 | 0.99 | 13.2 | Horizontal | Pass |
| 10204 | -44.04 | -25 | -19.04 | -55.48 | 1.26 | 12.7 | Horizontal | Pass |
| 5102 | -50.5 | -25 | -25.5 | -59.28 | 0.82 | 9.6 | Vertical | Pass |
| 7653 | -46.24 | -25 | -21.24 | -58.45 | 0.99 | 13.2 | Vertical | Pass |
| 10204 | -44.21 | -25 | -19.21 | -55.65 | 1.26 | 12.7 | Vertical | Pass |

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| FDD LTE Band 12-Low channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB | | | | | | | | |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1399 | -48.43 | -13 | -35.43 | -49.9 | 0.43 | 1.9 | Horizontal | Pass |
| 2098.5 | -52.85 | -13 | -39.85 | -58.12 | 0.53 | 5.8 | Horizontal | Pass |
| 2798 | -48.8 | -13 | -35.8 | -53.51 | 0.59 | 5.3 | Horizontal | Pass |
| 1399 | -49.38 | -13 | -36.38 | -50.85 | 0.43 | 1.9 | Vertical | Pass |
| 2098.5 | -53.13 | -13 | -40.13 | -58.4 | 0.53 | 5.8 | Vertical | Pass |
| 2798 | -48.42 | -13 | -35.42 | -53.13 | 0.59 | 5.3 | Vertical | Pass |

| FDD LTE Band 12-Middle channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB | | | | | | | | |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1406 | -48.14 | -13 | -35.14 | -49.61 | 0.43 | 1.9 | Horizontal | Pass |
| 2109 | -52.6 | -13 | -39.6 | -57.87 | 0.53 | 5.8 | Horizontal | Pass |
| 2812 | -46.04 | -13 | -33.04 | -50.75 | 0.59 | 5.3 | Horizontal | Pass |
| 1406 | -48.48 | -13 | -35.48 | -49.95 | 0.43 | 1.9 | Vertical | Pass |
| 2109 | -49.86 | -13 | -36.86 | -55.13 | 0.53 | 5.8 | Vertical | Pass |
| 2812 | -43.78 | -13 | -30.78 | -48.49 | 0.59 | 5.3 | Vertical | Pass |

| FDD LTE Band 12-High channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB | | | | | | | | |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1413 | -50.16 | -13 | -37.16 | -51.63 | 0.43 | 1.9 | Horizontal | Pass |
| 2119.5 | -50.57 | -13 | -37.57 | -55.84 | 0.53 | 5.8 | Horizontal | Pass |
| 2826 | -43.74 | -13 | -30.74 | -48.45 | 0.59 | 5.3 | Horizontal | Pass |
| 1413 | -47.61 | -13 | -34.61 | -49.08 | 0.43 | 1.9 | Vertical | Pass |
| 2119.5 | -50.6 | -13 | -37.6 | -55.87 | 0.53 | 5.8 | Vertical | Pass |
| 2826 | -46.79 | -13 | -33.79 | -51.5 | 0.59 | 5.3 | 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, KDB 971168 D01 v03

Limit: $\leq \pm 2.5\text{ppm}$

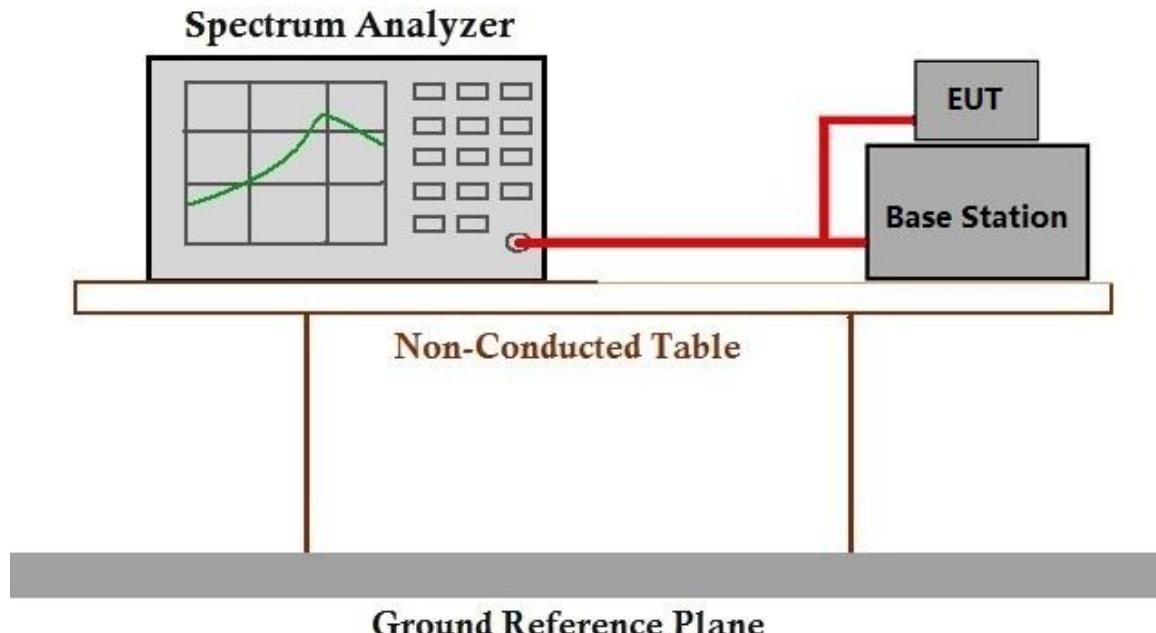
6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 26.1 °C Humidity: 43.2 % RH Atmospheric Pressure: 1010 mbar

Test mode 21: Tx mode, Keep the EUT in transmitting mode.

6.7.2 Test Setup Diagram



6.7.3 Measurement Data

Please refer to Appendix C LTE 4G Frequency stability

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The logo is a circular seal. The outer ring contains the text "SGS-CSTC Shenzhen Branch Inspection & Testing Services Co., Ltd." in a stylized font. The inner circle features a red five-pointed star in the center, with the words "检验检测专用章" (Inspection & Testing Services Special Seal) written in a circular path around it. The entire seal is set against a white background.

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6.8 Modulation Characteristics

Test Requirement: §2.1047

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

Limit: Digital modulation

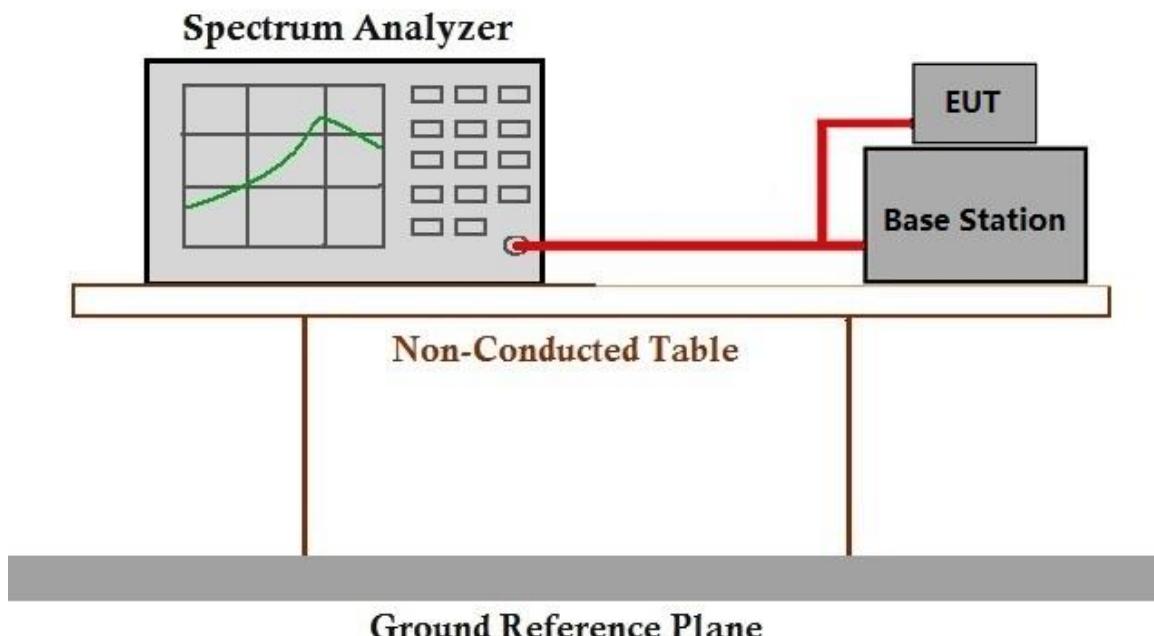
6.8.1 E.U.T. Operation

Operating Environment:

Temperature: 26.1 °C Humidity: 43.2 % RH Atmospheric Pressure: 1010 mbar

Test mode 21: Tx mode, Keep the EUT in transmitting mode.

6.8.2 Test Setup Diagram



6.8.3 Measurement Data

Please refer to Appendix C_LTE_4G_Modulation Characteristics

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7 Photographs

7.1 Test Setup

Please refer to setup photos.

7.2 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

- End of the Report -



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