

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400145002

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TEST REPORT

Application No.: SZCR2404001450AT

Applicant: **TECNO MOBILE LIMITED**

Address of Applicant: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN

MEI STREET FOTAN NT HONGKONG

Manufacturer: **TECNO MOBILE LIMITED**

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG Address of Manufacturer:

Factory: SHENZHEN TECNO TECHNOLOGY CO.,LTD.

101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R. China Address of Factory:

Equipment Under Test (EUT):

EUT Name: Mobile Phone

Model No.: AE10 **Trade Mark: TECNO** FCC ID: 2ADYY-AE10 47 CFR Part 2 Standard(s): 47 CFR Part 96

Date of Receipt: 2024-04-29

2024-05-12 to 2024-05-26 Date of Test:

Date of Issue: 2024-05-30

Test Result: Pass

Kenv Xu **EMC Laboratory Manager**



ce & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594

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



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| | Revision Record | | | | | | |
|---------|--------------------------------------|------------|--|----------|--|--|--|
| Version | Version Chapter Date Modifier Remark | | | | | | |
| 01 | | 2024-05-30 | | Original | | | |
| | | | | | | | |
| | | | | | | | |

| Authorized for issue by: | | |
|--------------------------|------------------------------|--|
| | Charle Der | |
| | Charlie Dai/Project Engineer | |
| | Exic Fu | |
| | Eric Fu/Reviewer | |



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2 Test Summary

| Test Item | FCC Rule No. | Requirements | Verdict |
|---|----------------------|-------------------------------------|---------|
| Effective (Isotropic) Radiated Output Power Data & Maximum Power Spectral Density | §2.1046 §96.41(b) | EIRP≤ 23dBm/10MHz (5G NR n77 & n78) | Pass |
| Peak-Average Ratio | §96.41(g) | ≤13dB | Pass |
| Modulation Characteristics | §2.1047 §96.41(a) | Digital modulation | Pass |
| Bandwidth | §2.1049(h) | OBW: No limit EBW: No limit | Pass |
| Band Edge Compliance | §2.1051 §96.41(e) | Refer to clause 6.4 | Pass |
| Spurious emissions at antenna terminals | §2.1051 §96.41(e) | Refer to clause 6.5 | Pass |
| Field strength of spurious radiation | §2.1053 §96.41(e) | Refer to clause 6.6 | Pass |
| Frequency stability | §2.1055 | ≤ ±2.5ppm. | Pass |



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4 General Information

| 4.1 Details of E.U.T. | | | | | | | |
|-----------------------|---|-------------------------------------|------------|------------|------------|-------|--|
| Power supply: | Lithium-ion rechargeable battery (DC 3.86V 2637mAh & 3.86V 2973mAh) which can be charged from USB-C port. | | | | | | |
| | Adapter Model: U | J700TSA | | | | | |
| | Input: 100-240V | Input: 100-240V 50/60Hz 2.0A | | | | | |
| | Output: 5.0V 3.0/ 3.5A Max. | 4, 5.0-10.0V | 7.0A Max., | 11.0V 6.4A | Max., 4.0- | 20.0V | |
| Cable: | USB-A to C cable | e: 100cm shie | elded | | | | |
| | NR Band | NR Band Uplink (MHz) Downlink (MHz) | | | | | |
| SA Frequency Band: | 77 | 3550 | -3700 | | 3550-370 | 0 | |
| | 78 3550-3700 3550-3700 | | | | 0 | | |
| Type of Modulation: | n77, n78: | | | | | | |
| | DFT-s-OFDM: Pi | /2-BPSK\QP | SK\16QAM | \64QAM\25 | 6QAM | | |
| | CP-OFDM: QPSI | K\16QAM\640 | QAM\256Q | AM | | | |
| EUT type: | End User Device | | | | | | |
| SCS Information: | 30kHz | | | | | | |
| Power Class | Class 3 | | | | | | |
| Antenna Function: | Band | d | ANT1 | ANT5 | ANT6 | ANT8 | |
| | n77 | | TRX | RX | RX | RX | |
| | n78 TRX RX RX RX | | | | | | |
| MIMO Information: | N/A | | | | | | |
| Antenna Type: | PIFA | | | | | | |
| Antenna Gain: | ANT1: n77/n78: -2dBi (Provided by manufacturer) | | | | | | |

Note:

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





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4.2 Test Frequency

| | Nominal | | RF Channel | |
|------------|-----------|---------|------------|----------|
| Test mode: | Bandwidth | Low (L) | Middle (M) | High (H) |
| | (MHz) | MHz | MHz | MHz |
| | 20 | 3560.01 | 3624.99 | 3690.0 |
| | 30 | 3565.02 | 3624.99 | 3684.99 |
| | 40 | 3570.0 | 3624.99 | 3679.98 |
| | 50 | 3575.01 | 3624.99 | 3675 |
| N77/78 | 60 | 3580.02 | 3624.99 | 3669.99 |
| | 70 | 3585 | 3624.99 | 3664.98 |
| | 80 | 3590.01 | 3624.99 | 3660 |
| | 90 | 3595.02 | 3624.99 | 3654.99 |
| | 100 | 3600 | 3624.99 | 3649.98 |

Remark: NR Band n77 and NR Band n78 have the same frequency range and transmission antenna. All test items were performed Pre-scan test in n77 and n78 and found and only recorded the worst data of n78 in the report.





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4.3 Test Environment

| Environment Parameter | Selected Values During Tests | | | | |
|-----------------------|------------------------------|-----------|--|--|--|
| Relative Humidity | | 56.1% | | | |
| Atmospheric Pressure: | 1020Pa | | | | |
| | TL | -30°C | | | |
| Temperature: | TN | +20°C | | | |
| | TH | +50°C | | | |
| | VL | DC 3.281V | | | |
| Voltage: | VN | DC 3.860V | | | |
| | VH | DC 4.439V | | | |

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

4.4 Description of Support Units

The EUT has been tested independent unit.

4.5 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|--------------------------|
| 1 | Radio Frequency | ± 5.4 x 10 ⁻⁸ |
| 2 | Duty cycle | ± 0.3% |
| 3 | Occupied Bandwidth | ± 3% |
| 4 | RF conducted power | ± 0.8dB |
| 5 | RF power density | ± 0.4dB |
| 6 | Conducted Spurious emissions | ± 2.7dB |
| 7 | Dedicted Courieus emission test | ± 3.1dB (Below 1GHz) |
| / | Radiated Spurious emission test | ± 4.4dB (Above 1GHz) |
| 8 | Temperature test | ± 1°C |
| 9 | Humidity test | ± 3% |
| 10 | Supply voltages | ± 1.5% |
| 11 | Time | ± 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, 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

| RF conducted test | | | | | | |
|---|---------------------------------|-------------------|---------------|------------|---------------|--|
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date | Cal. Due date | |
| Programmable DC Source | Chroma | 62024P-80-60 | SEM011-09 | 2023-07-11 | 2024-07-10 | |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002 | SEM002-15 | 2024-03-20 | 2025-03-19 | |
| MXA Signal Analyzer | KEYSIGHT | N9020B | SEM004-24 | 2024-3-14 | 2025-3-13 | |
| Measurement Software | TST | TST PASS V2.0 | N/A | N/A | N/A | |
| Attenuator | Huber+Suhner | 6620_SMA- 50-1 | SEM021-09 | 2024-3-27 | 2025-3-26 | |
| 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 | |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002 | SEM002-15 | 2024-3-19 | 2025-3-18 | |
| 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 | 2024-5-11 | 2027-5-10 |
| Signal Analyzer | Rohde & Schwarz | FSV40 | SEM008-04 | 2024-03-15 | 2025-03-14 |
| 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 | 2023-07-07 | 2024-07-06 |
| 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 9170 | SEM003-15 | 2021-07-11 | 2024-07-10 |
| Broad-Band Horn | Schwarzbeck | BBHA 9120D | SEM003-32 | 2021-09-26 | 2024-09-25 |



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| Antenna | | | | | |
|---|--|-------------|-----------|------------|------------|
| Pre-amplifier | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2024-03-15 | 2025-03-14 |
| 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 | Schwarzbeck | BBHA 9170 | SEM003-15 | 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 |

| RE in Chamber(below 1GHz) | | | | | | | | | | | | |
|---|----------------------|---------------------|----------------|-------------------|----------------|--|--|--|--|--|--|--|
| Test Equipment | Test Equipment | Test Equipment | Test Equipment | Test Equipment | Test Equipment | | | | | | | |
| Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2023-11-20 | 2025-11-19 | | | | | | | |
| 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEM001-01 | 2023-06-19 | 2026-06-18 | | | | | | | |
| MXE EMI Receiver | Agilent Technologies | N9038A | SEM004-15 | 2023-10-19 | 2024-10-18 | | | | | | | |
| BiConiLog Antenna | ETS-LINDGREN | 3142C | SEM003-01 | 2023-9-16 | 2025-9-15 | | | | | | | |
| Pre-Amplifier | Agilent Technologies | 8447D | SEM005-01 | 2024-3-14 | 2025-3-13 | | | | | | | |
| Substitution Antenna | Schwarzbeck | VULB9163 | SEM003-05 | 2023-9-16 | 2025-9-15 | | | | | | | |
| Signal Generator(9kHz- 40GHz) | N5173B | MY53270267 | Agilent | 2023-9-19 | 2024-9-18 | | | | | | | |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A | | | | | | | |
| Coaxial Cable | SGS | N/A | SEM025-01 | 2023-07-07 | 2024-07-06 | | | | | | | |
| 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 Effective (Isotropic) Radiated Output Power & Maximum Power Spectral Density

Test Requirement: §2.1046, §96.41(b)

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

Limit: EIRP≤23dBm/10MHz

PSD: NA

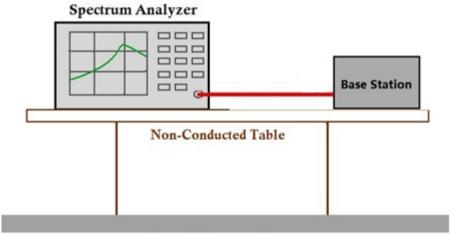
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 58.2 % RH Atmospheric Pressure: 1020 mbar

Test mode 01: Tx mode, Keep the EUT in transmitting mode.

6.1.2 Test Setup Diagram



Ground Reference Plane

6.1.3 Measurement Data

Please refer to Appendix for Effective (Isotropic) Radiated Output Power Data.



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6.2 Peak-Average Ratio

Test Requirement: §96.41(g)

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

Limit: ≤13dB

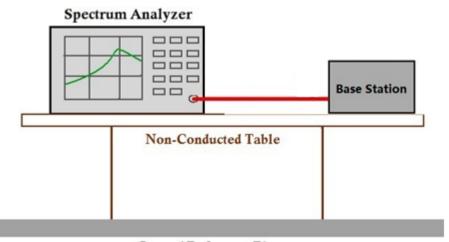
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 58.2 % RH Atmospheric Pressure: 1020 mbar

Test mode 01: Tx mode, Keep the EUT in transmitting mode.

6.2.2 Test Setup Diagram



Ground Reference Plane

6.2.3 Measurement Data

Please refer to Appendix for Peak-Average Ratio.



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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

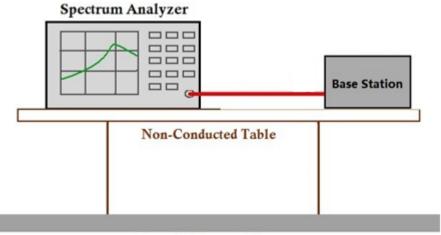
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 58.2 % RH Atmospheric Pressure: 1020 mbar

Test mode 01: Tx mode, Keep the EUT in transmitting mode.

6.3.2 Test Setup Diagram



Ground Reference Plane

6.3.3 Measurement Data

Please refer to Appendix for Bandwidth.



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6.4 Band Edge Compliance

Test Requirement: §2.1051, §96.41(e),

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

Limit:

- 1) The conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30dB.
- 2) The conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

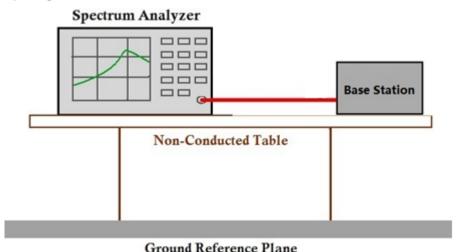
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 58.2 % RH Atmospheric Pressure: 1020 mbar

Test mode 01: Tx mode, Keep the EUT in transmitting mode.

6.4.2 Test Setup Diagram



6.4.3 Measurement Data

Please refer to Appendix for Spurious emissions at antenna terminals & Band Edge.



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6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §96.41(e)

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

Limit:

- 1) The conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30dB.
- 2) The conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

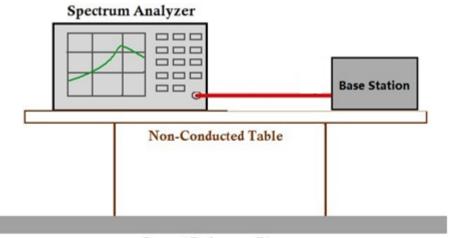
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 58.2 % RH Atmospheric Pressure: 1020 mbar

Test mode 01: Tx mode, Keep the EUT in transmitting mode.

6.5.2 Test Setup Diagram



Ground Reference Plane

6.5.3 Measurement Data

Please refer to Appendix for Spurious emissions at antenna terminals & Band Edge.



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6.6 Field strength of spurious radiation

Test Requirement: §2.1053, §96.41(e)

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

Limit:

- 1) Emission outside the fundamental emission bandwidth (whether the emission is inside or outside of the authorized band) shall not exceed −13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the emission shall not exceed −25 dBm/MHz.
- 2) Emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C Humidity: 47.2 % RH Atmospheric Pressure: 1020 mbar

Test mode 01: Tx mode, Keep the EUT in transmitting mode.



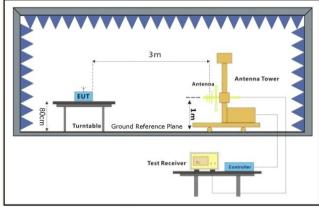


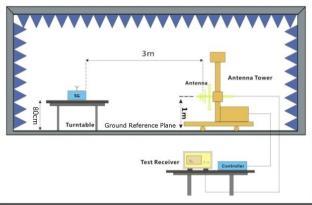
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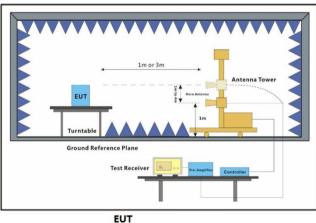
6.6.2 Test Setup Diagram

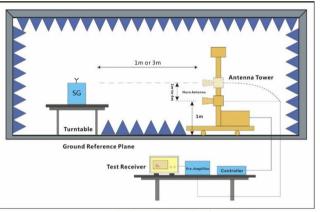




EUT

Substiute Antenna+Signal Generator





Substiute Antenna+Signal Generator



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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 than 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 77-Low channel, Modulation: Pi/2-BPSK, Bandwidth:20MHz, 1RB0 | | | | | | | | | | | |
|--------------------|---|----------------|-----------------------|------------------------|-----------------------|--------------------------|-----------------------|--------|--|--|--|--|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result | | | | |
| 7420.02 | -48.64 | -40 | -8.64 | -56.06 | 4.22 | 11.64 | Horizontal | Pass | | | | |
| 11130.03 | -47.54 | -40 | -7.54 | -55.73 | 5.07 | 13.26 | Horizontal | Pass | | | | |
| 14840.04 | -46.73 | -40 | -6.73 | -55.78 | 5.44 | 14.49 | Horizontal | Pass | | | | |
| 7420.02 | -48.55 | -40 | -8.55 | -55.97 | 4.22 | 11.64 | Vertical | Pass | | | | |
| 11130.03 | -46.18 | -40 | -6.18 | -54.37 | 5.07 | 13.26 | Vertical | Pass | | | | |
| 14840.04 | -47.66 | -40 | -7.66 | -56.71 | 5.44 | 14.49 | Vertical | Pass | | | | |

| | LTE Band 77-Middle channel, Modulation: Pi/2-BPSK, Bandwidth:20MHz, 1RB0 | | | | | | | | | | | |
|--------------------|--|----------------|-----------------------|------------------------|-----------------------|--------------------------|-----------------------|--------|--|--|--|--|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result | | | | |
| 7680.0 | -50.16 | -40 | -10.16 | -57.88 | 4.23 | 11.95 | Horizontal | Pass | | | | |
| 11520.0 | -49.51 | -40 | -9.51 | -57.69 | 5.06 | 13.24 | Horizontal | Pass | | | | |
| 15360.0 | -48.79 | -40 | -8.79 | -57.52 | 5.6 | 14.33 | Horizontal | Pass | | | | |
| 7680.0 | -49.49 | -40 | -9.49 | -57.21 | 4.23 | 11.95 | Vertical | Pass | | | | |
| 11520.0 | -48.02 | -40 | -8.02 | -56.2 | 5.06 | 13.24 | Vertical | Pass | | | | |
| 15360.0 | -47.09 | -40 | -7.09 | -55.82 | 5.6 | 14.33 | Vertical | Pass | | | | |

| | LTE Band 77-High channel, Modulation: Pi/2-BPSK, Bandwidth:20MHz, 1RB0 | | | | | | | | | | | |
|--------------------|--|----------------|-----------------------|------------------------|-----------------------|--------------------------|-----------------------|--------|--|--|--|--|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result | | | | |
| 7939.98 | -49.22 | -40 | -9.22 | -57.24 | 4.24 | 12.26 | Horizontal | Pass | | | | |
| 11909.97 | -48.62 | -40 | -8.62 | -56.83 | 5.05 | 13.26 | Horizontal | Pass | | | | |
| 15879.96 | -47.85 | -40 | -7.85 | -56.13 | 5.65 | 13.93 | Horizontal | Pass | | | | |
| 7939.98 | -48.99 | -40 | -8.99 | -57.01 | 4.24 | 12.26 | Vertical | Pass | | | | |
| 11909.97 | -47.5 | -40 | -7.5 | -55.71 | 5.05 | 13.26 | Vertical | Pass | | | | |
| 15879.96 | -46.82 | -40 | -6.82 | -55.1 | 5.65 | 13.93 | Vertical | Pass | | | | |

Note: All modes have been tested and we found Pi/2-BPSK test mode has the worst test result. Only record the worst test result.



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| | LTE Band 78-Low channel, Modulation: Pi/2-BPSK, Bandwidth:20MHz, 1RB0 | | | | | | | | | | | |
|--------------------|---|----------------|-----------------------|------------------------|-----------------------|--------------------------|-----------------------|--------|--|--|--|--|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result | | | | |
| 7420.02 | -48.36 | -40 | -8.36 | -55.78 | 4.22 | 11.64 | Horizontal | Pass | | | | |
| 11130.03 | -47.84 | -40 | -7.84 | -56.03 | 5.07 | 13.26 | Horizontal | Pass | | | | |
| 14840.04 | -47.06 | -40 | -7.06 | -56.11 | 5.44 | 14.49 | Horizontal | Pass | | | | |
| 7420.02 | -49.17 | -40 | -9.17 | -56.59 | 4.22 | 11.64 | Vertical | Pass | | | | |
| 11130.03 | -48.22 | -40 | -8.22 | -56.41 | 5.07 | 13.26 | Vertical | Pass | | | | |
| 14840.04 | -46.76 | -40 | -6.76 | -55.81 | 5.44 | 14.49 | Vertical | Pass | | | | |

| | LTE Band 78-Middle channel, Modulation: Pi/2-BPSK, Bandwidth:20MHz, 1RB0 | | | | | | | | | | | | |
|--------------------|--|----------------|-----------------------|------------------------|-----------------------|--------------------------|-----------------------|--------|--|--|--|--|--|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result | | | | | |
| 7500.0 | -48.45 | -40 | -8.45 | -55.97 | 4.22 | 11.74 | Horizontal | Pass | | | | | |
| 11250.0 | -47.4 | -40 | -7.4 | -55.6 | 5.06 | 13.26 | Horizontal | Pass | | | | | |
| 15000.0 | -46.85 | -40 | -6.85 | -55.81 | 5.56 | 14.52 | Horizontal | Pass | | | | | |
| 7500.0 | -48.06 | -40 | -8.06 | -55.58 | 4.22 | 11.74 | Vertical | Pass | | | | | |
| 11250.0 | -47.99 | -40 | -7.99 | -56.19 | 5.06 | 13.26 | Vertical | Pass | | | | | |
| 15000.0 | -46.53 | -40 | -6.53 | -55.49 | 5.56 | 14.52 | Vertical | Pass | | | | | |

| | LTE Band 78-High channel, Modulation: Pi/2-BPSK, Bandwidth:20MHz, 1RB0 | | | | | | | | | | | |
|--------------------|--|----------------|-----------------------|------------------------|-----------------------|--------------------------|-----------------------|--------|--|--|--|--|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result | | | | |
| 7579.98 | -49.56 | -40 | -9.56 | -57.17 | 4.22 | 11.83 | Horizontal | Pass | | | | |
| 11369.97 | -47.92 | -40 | -7.92 | -56.11 | 5.06 | 13.25 | Horizontal | Pass | | | | |
| 15159.96 | -46.73 | -40 | -6.73 | -55.58 | 5.58 | 14.43 | Horizontal | Pass | | | | |
| 7579.98 | -49.5 | -40 | -9.5 | -57.11 | 4.22 | 11.83 | Vertical | Pass | | | | |
| 11369.97 | -47.83 | -40 | -7.83 | -56.02 | 5.06 | 13.25 | Vertical | Pass | | | | |
| 15159.96 | -46.8 | -40 | -6.8 | -55.65 | 5.58 | 14.43 | Vertical | Pass | | | | |

Note: All modes have been tested and we found Pi/2-BPSK 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

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

Limit: $\leq \pm 2.5$ ppm

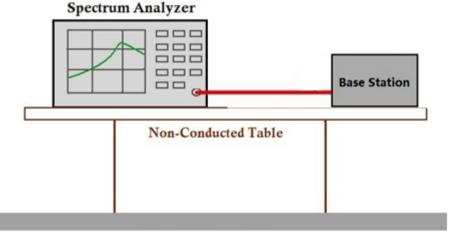
6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 58.2 % RH Atmospheric Pressure: 1020 mbar

Test mode 01: Tx mode, Keep the EUT in transmitting mode.

6.7.2 Test Setup Diagram



Ground Reference Plane

6.7.3 Measurement Data

Please refer to Appendix for Frequency stability.



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6.8 Modulation Characteristics

Test Requirement: §2.1047

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

Limit: Digital modulation

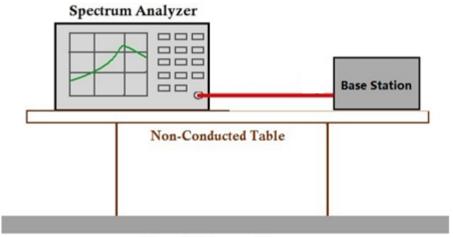
6.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 58.2 % RH Atmospheric Pressure: 1020 mbar

Test mode 01: Tx mode, Keep the EUT in transmitting mode.

6.8.2 Test Setup Diagram



Ground Reference Plane

6.8.3 Measurement Data

Pass, it's a digital modulation device.



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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2404001450AT.

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos.

- End of the Report -

