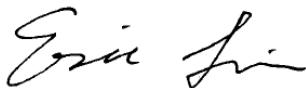


TEST REPORT

| | |
|------------------------------------|---|
| Application No.: | KSCR2205000668AT |
| FCC ID: | 2AH25T8920 |
| Applicant: | Shanghai Sunmi Technology Co.,Ltd. |
| Address of Applicant: | Room 505, No.388, Song Hu Road, Yang Pu District, Shanghai, China |
| Manufacturer: | Shanghai Sunmi Technology Co.,Ltd. |
| Address of Manufacturer: | Room 505, No.388, Song Hu Road, Yang Pu District, Shanghai, China |
| Equipment Under Test (EUT): | |
| EUT Name: | Handheld Wireless Terminal |
| Model No.: | T8920 |
| Trade mark: | SUNMI |
| Standard(s) : | 47 CFR Part 2 47 CFR Part 22 subpart H 47 CFR Part 24 subpart E |
| Date of Receipt: | 2022-07-13 |
| Date of Test: | 2022-07-15 to 2022-08-16 |
| Date of Issue: | 2022-08-24 |
| Test Result: | Pass* |

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



Eric Lin
Laboratory Manager



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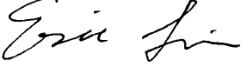
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Report No.: KSCR220500066807
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| Revision Record | | | |
|-----------------|-------------|------------|--------|
| Version | Description | Date | Remark |
| 00 | Original | 2022-08-24 | / |
| | | | |
| | | | |

| | | | |
|--------------------------|---|--|--|
| Authorized for issue by: | | | |
| |  | | |
| | <hr/> Eric Liu /Project Engineer | | |
| |  | | |
| | <hr/> Eric Lin /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 | ERP≤7W(GSM850) EIRP≤2W(GSM1900) | PASS |
| Peak-Average Ratio | §24.232 | ≤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 | ≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | PASS |
| Spurious emissions at antenna terminals | §2.1051, §22.917, §24.238 | ≤ -13dBm | PASS |
| Radiated spurious emissions | §2.1051, §22.917, §24.238 | ≤ -13dBm | PASS |
| Frequency stability | §2.1055, §22.355, §24.235 | ≤ ±2.5ppm. | PASS |

Note: After Pre-scan test, we chose sim card 1 as the main test, sim card 2 was verified the Spurious emissions.

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4 General Information

4.1 Details of E.U.T.

| | |
|---------------------------|--|
| Power supply: | Adapter 1 Model: TPA-23A050200UU01 Input: 100-240V~50/60Hz 0.3A Output: 5.0V 2.0A Adapter 2 Model: UC13US Input: 100-240V~50/60Hz 0.35A Output: 5.0V 2.0A Battery: Model: JKNR 1ICP10/51/66 Rated capacity: 5000mAh/19Wh Nominal voltage: 3.8V Limited charge voltage: 4.35V |
| Test voltage: | 3.8V DC |
| Serial Number: | LP07D26F00016 |
| Firmware version: | Sun8611_V0.41_20220622 |
| Sample Type: | Portable production |
| Support Network: | GSM, GPRS, EGPRS |
| Operation Frequency Band: | GSM850/GSM1900 |
| Modulation Type: | GMSK for GSM/GPRS 8PSK for EGPRS |
| GPRS Class: | 12 |
| EGPRS Class: | 12 |
| Antenna Type: | PIFA Antenna |
| Antenna Gain: | GSM850: -2.02dBi (Provided by the manufacturer) GSM1900: -0.56dBi (Provided by the manufacturer) |
| Extreme temp. Tolerance: | -20°C to +55°C |
| Extreme vol. Limits: | 3.46V DC to 4.35V DC (nominal: 3.8V DC) |
| IMEI: | 867682065002807 |

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4.2 Test Frequency

| Test mode: | TX / RX | RF Channel | | |
|------------|---------|-------------|-------------|-------------|
| | | Low (L) | Middle (M) | High (H) |
| GSM850 | TX | Channel 128 | Channel 190 | Channel 251 |
| | | 824.2MHz | 836.6 MHz | 848.8 MHz |
| | RX | Channel 128 | Channel 190 | Channel 251 |
| | | 869.2 MHz | 881.6 MHz | 893.8 MHz |
| Test mode: | TX / RX | RF Channel | | |
| | | Low (L) | Middle (M) | High (H) |
| GSM1900 | TX | Channel 512 | Channel 661 | Channel 810 |
| | | 1850.2MHz | 1880.0 MHz | 1909.8 MHz |
| | RX | Channel 512 | Channel 661 | Channel 810 |
| | | 1930.2 MHz | 1960.0 MHz | 1989.8 MHz |

4.3 Test Environment

| Environment Parameter | Selected Values During Tests | |
|-----------------------|------------------------------|-------|
| Relative Humidity | 48% | |
| Atmospheric Pressure: | 1015Pa | |
| Temperature: | TN | 25 °C |
| Voltage: | VL | 3.46V |
| | VN | 3.8V |
| | VH | 4.35V |

NOTE: VL= lower extreme test voltage

VN= nominal voltage

VH= upper extreme test voltage

TN= normal temperature

4.4 Description of Support Units

The EUT has been tested as an independent unit.

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4.5 Measurement Uncertainty

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

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

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4.6 Test Location

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

No tests were sub-contracted.

Note:

- SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
- SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

4.7 Test Facility

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

- **CNAS**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC**

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

Designation Number: CN1172.

- **ISED**

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

Company Number: 2324E

- **VCCI**

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

4.8 Deviation from Standards

None



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4.9 Abnormalities from Standard Conditions

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5 Equipment List

| Item | Equipment | Manufacturer | Model | Serial Number | Cal Date | Cal. Due Date |
|--------------------------|--------------------------------------|---------------|-------------|---------------|------------|---------------|
| RF Conducted Test | | | | | | |
| 1 | Spectrum Analyzer | Agilent | E4446A | MY44020154 | 04/16/2022 | 04/15/2023 |
| 2 | Spectrum Analyzer | Keysight | N9020A | MY55370209 | 12/02/2021 | 12/01/2022 |
| 3 | Spectrum Analyzer | Keysight | N9010A | MY56480443 | 02/01/2022 | 01/31/2023 |
| 4 | Signal Generator | Agilent | N5182A | MY50142015 | 09/25/2020 | 09/24/2021 |
| 5 | Radio Communication Test Station | Anritsu | MT8000A | 6262012849 | N/A | N/A |
| 6 | Radio Communication Analyzer | Anritsu | MT8821C | 6201692222 | N/A | N/A |
| 7 | Universal Radio Communication Tester | R&S | CMW500 | 159275 | 10/19/2021 | 10/18/2022 |
| 8 | Universal Radio Communication Tester | R&S | CMW500 | 167239 | 04/16/2022 | 04/15/2023 |
| 9 | Power Meter | Anritsu | ML2495A | 1445010 | 04/15/2022 | 04/14/2023 |
| 10 | Switcher | CCSRF | FY562 | KUS2001M001-3 | 10/19/2021 | 10/18/2022 |
| 11 | 6dB Attenuator | Mini-Circuits | NAT-6-2W | 15542-1 | N.C.R | N.C.R |
| 12 | Power Divider | AISI | IOWOPE2068 | PE2068 | N.C.R | N.C.R |
| 13 | Filter | MICRO-TRONICS | BRM50701 | 5 | N.C.R | N.C.R |
| 14 | Conducted test cable | / | RF01-RF04 | / | 04/15/2022 | 04/14/2023 |
| 15 | Software | BST | TST-PASS | N/A | N/A | N/A |
| 16 | Temp. / Humidity Chamber | TERCHY | MHK-120AK | X30109 | 04/15/2022 | 04/14/2023 |
| 17 | Thermometer | Anymetre | TH603 | CCS007 | 10/16/2021 | 10/15/2022 |
| RF Radiated Test | | | | | | |
| 1 | Spectrum Analyzer | R&S | FSV40 | 101493 | 10/19/2021 | 10/18/2022 |
| 2 | Signal Generator | Agilent | E8257C | MY43321570 | 10/19/2021 | 10/18/2022 |
| 4 | Bilog Antenna | TESEQ | CBL 6112D | 35403 | 06/21/2020 | 06/20/2022 |
| 5 | Bilog Antenna | TESEQ | CBL 6112D | 35403 | 06/21/2021 | 06/20/2023 |
| 6 | Bilog Antenna | SCHWARZBECK | VULB9160 | 9160-3342 | 04/13/2021 | 04/12/2023 |
| 7 | Horn-antenna(1-18GHz) | Schwarzbeck | BBHA9120D | 267 | 10/26/2020 | 10/25/2022 |
| 8 | Horn-antenna(1-18GHz) | ETS-LINDGREN | 3117 | 00143290 | 02/22/2021 | 02/21/2023 |
| 9 | Horn Antenna(18-40GHz) | Schwarzbeck | BBHA9170 | BBHA9170171 | 02/22/2022 | 02/21/2023 |
| 10 | Pre-Amplifier(30MHz~18GHz) | LNA | / | / | 04/15/2022 | 04/14/2023 |
| 11 | Amplifier(18~40GHz) | COM-POWER | PAM-840A | 461332 | 10/23/2021 | 10/22/2022 |
| 12 | Low Pass Filter | MICRO-TRONICS | VLFX-950 | RV142900829 | N.C.R | N.C.R |
| 13 | High Pass Filter | Mini-Circuits | VHF-1200 | 15542 | N.C.R | N.C.R |
| 14 | Filter (885 MHz~915 MHz) | MICRO-TRONICS | BRM14698 | 1 | N.C.R | N.C.R |
| 15 | Filter (815 MHz~860 MHz) | MICRO-TRONICS | BRM14697 | 1 | N.C.R | N.C.R |
| 16 | Filter (1745 MHz~1910 MHz) | MICRO-TRONICS | BRM14700 | 1 | N.C.R | N.C.R |
| 17 | Filter (1922 MHz~1977 MHz) | MICRO-TRONICS | BRM50715 | 1 | N.C.R | N.C.R |
| 18 | Filter (1532 MHz~1845 MHz) | MICRO-TRONICS | BRM50713 | 1 | N.C.R | N.C.R |
| 19 | RE test cable | / | RE01-RE04 | / | 04/15/2022 | 04/14/2023 |
| 20 | Software | Faratronic | EZ_EMCA-3A1 | N/A | N/A | N/A |

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| | | | | | | |
|----|--------------------------------------|-----|--------|--------|------------|------------|
| 21 | Universal Radio Communication Tester | R&S | CMW500 | 159275 | 10/19/2021 | 10/18/2022 |
| 22 | Universal Radio Communication Tester | R&S | CMW500 | 167239 | 04/16/2022 | 04/15/2023 |

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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

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

Limit: ERP≤7W(GSM850);EIRP ≤ 2W(GSM1900)

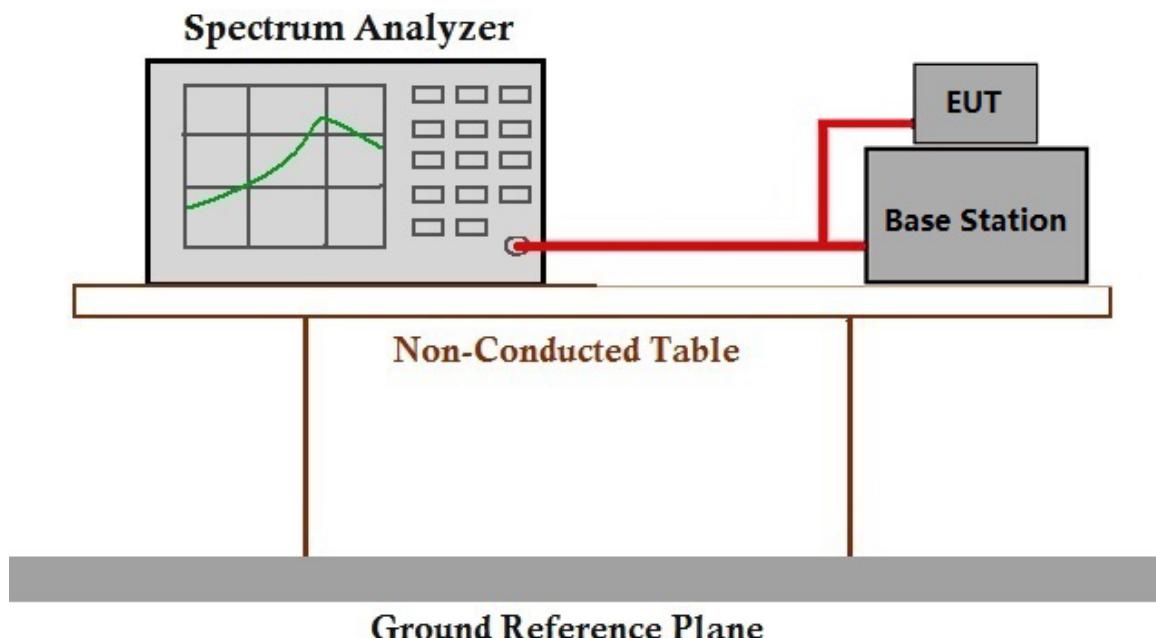
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

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

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

Please refer to Appendix E for KSCR2205000668, Appendix F for KSCR2205000668.



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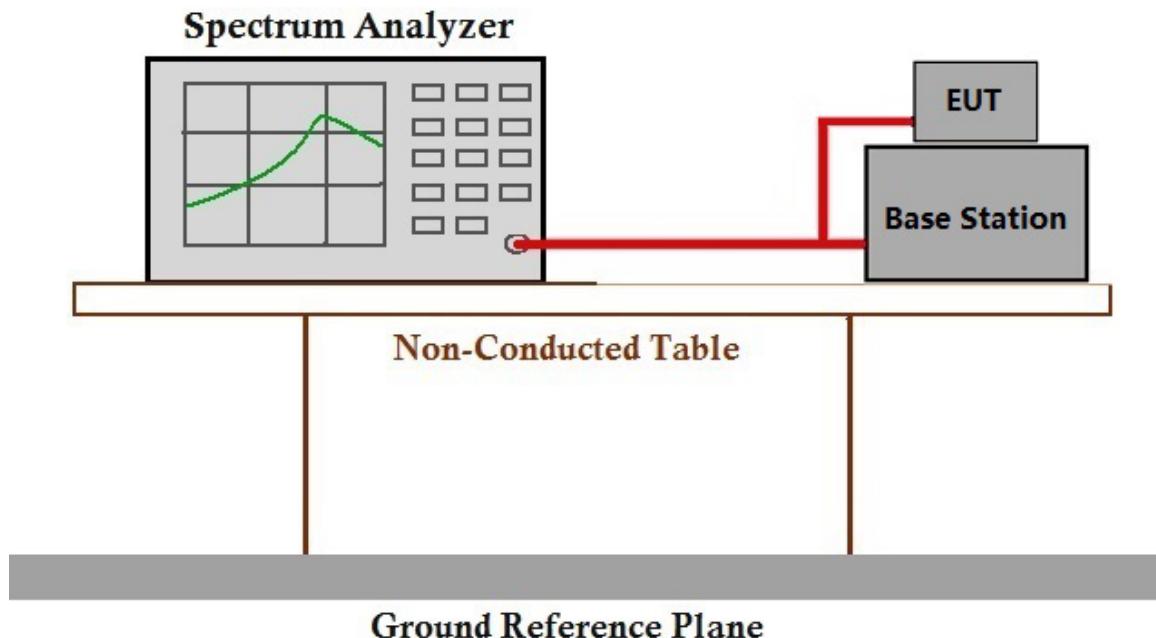
6.2 Peak-Average Ratio

Test Requirement: §24.232
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: ≤13dB

6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: a: Tx mode, Keep the EUT in transmitting mode.

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

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6.3 Bandwidth

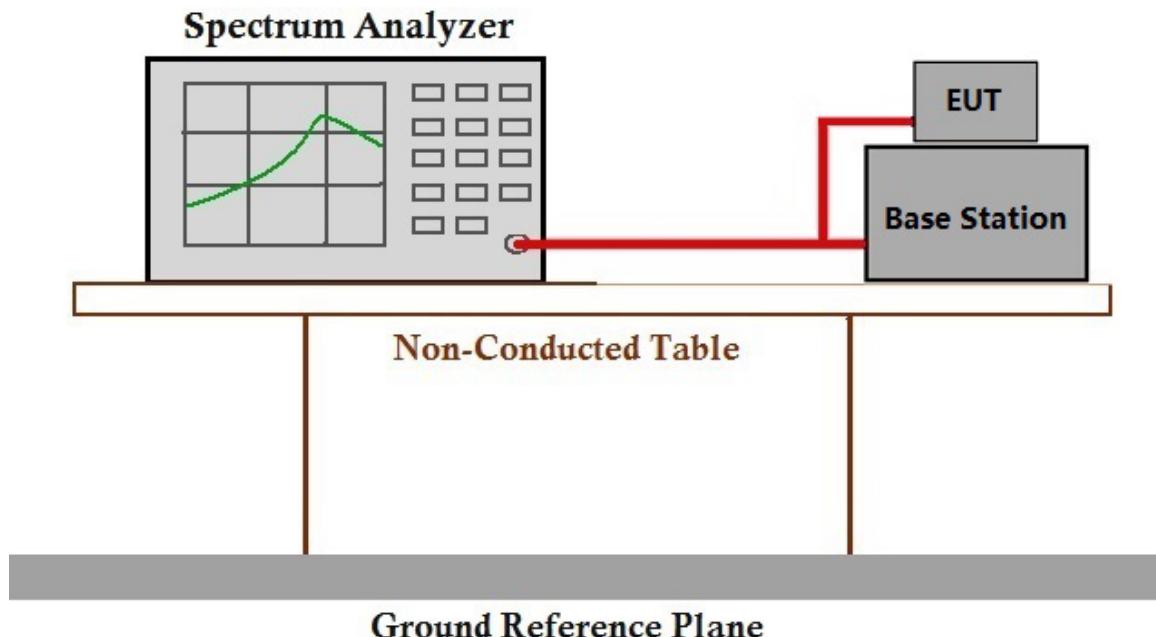
Test Requirement: §2.1049(h), §22.917, §24.238
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: OBW: No limit
EBW: No limit

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: a: Tx mode, Keep the EUT in transmitting mode.

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

Please refer to Appendix E for KSCR2205000668, Appendix F for KSCR2205000668.



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6.4 Band Edge Compliance

Test Requirement: §2.1051, §22.917, §24.238

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

Limit: $\leq -13\text{dBm}/1\% \times \text{EBW}$, in 1 MHz bands immediately outside and adjacent to the frequency block.

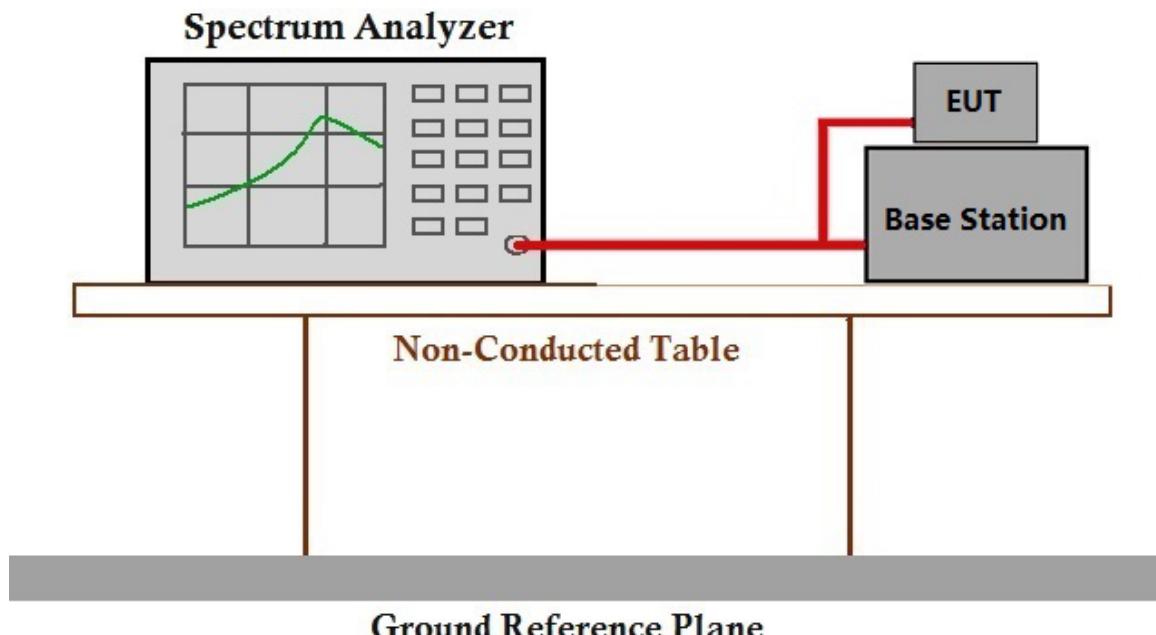
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

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

6.4.2 Test Setup Diagram



6.4.3 Measurement Data

Please refer to Appendix E for KSCR2205000668, Appendix F for KSCR2205000668.



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6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §22.917, §24.238

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

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

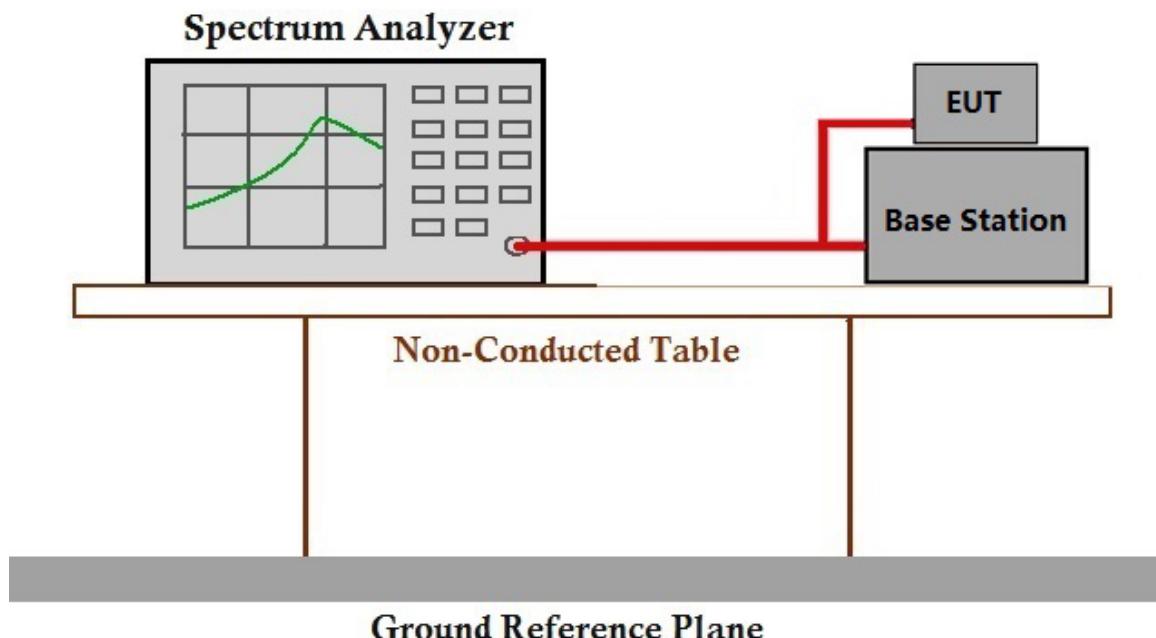
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: $22.7\text{ }^{\circ}\text{C}$ Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

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

6.5.2 Test Setup Diagram



6.5.3 Measurement Data

Please refer to Appendix E for KSCR2205000668, Appendix F for KSCR2205000668.

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6.6 Field strength of spurious radiation

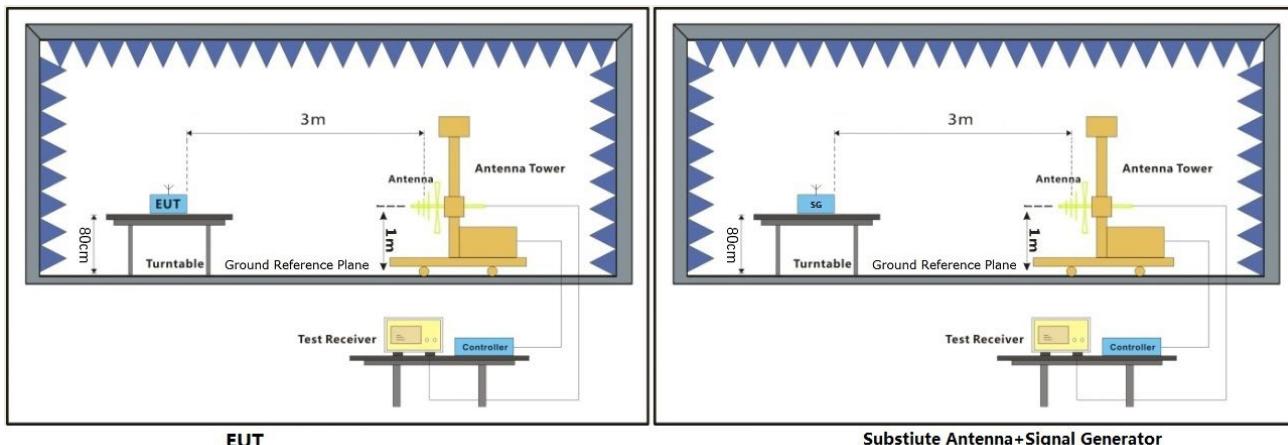
Test Requirement: §2.1051, §22.917, §24.238,
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: $\leq -13\text{dBm}$

6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: a: 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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GSM850-Low channel

| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|-------------|-----------------|--------------|
| 1648.400 | -51.28 | -13 | -38.28 | Horizontal |
| 2472.600 | -60.63 | -13 | -47.63 | Horizontal |
| 3296.800 | -54.19 | -13 | -41.19 | Horizontal |
| 1648.400 | -59.01 | -13 | -46.01 | Vertical |
| 2472.600 | -60.27 | -13 | -47.27 | Vertical |
| 3296.800 | -53.53 | -13 | -40.53 | Vertical |

GSM850-Middle channel

| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|-------------|-----------------|--------------|
| 1672.800 | -56.03 | -13 | -43.03 | Horizontal |
| 2509.200 | -60.04 | -13 | -47.04 | Horizontal |
| 3345.600 | -56.05 | -13 | -43.05 | Horizontal |
| 1672.800 | -51.66 | -13 | -38.66 | Vertical |
| 2509.200 | -59.77 | -13 | -46.77 | Vertical |
| 3345.600 | -55.92 | -13 | -42.92 | Vertical |

GSM850- High channel

| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|-------------|-----------------|--------------|
| 1697.600 | -57.27 | -13 | -44.27 | Horizontal |
| 2546.400 | -59.98 | -13 | -46.98 | Horizontal |
| 3395.200 | -55.15 | -13 | -42.15 | Horizontal |
| 1697.600 | -59.43 | -13 | -46.43 | Vertical |
| 2546.400 | -62.07 | -13 | -49.07 | Vertical |
| 3395.200 | -54.04 | -13 | -41.04 | Vertical |

GSM1900-Low channel

| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|-------------|-----------------|--------------|
| | | | | |

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| | | | | |
|----------|--------|-----|--------|------------|
| 3700.400 | -52.99 | -13 | -39.99 | Horizontal |
| 5550.600 | -48.04 | -13 | -35.04 | Horizontal |
| 7400.800 | -49.12 | -13 | -36.12 | Horizontal |
| 3700.400 | -47.80 | -13 | -34.80 | Vertical |
| 5550.600 | -51.06 | -13 | -38.06 | Vertical |
| 7400.800 | -44.70 | -13 | -31.70 | Vertical |

| GSM1900-Middle channel | | | | |
|------------------------|-------------|-------------|-----------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 3760.000 | -46.69 | -13 | -33.69 | Horizontal |
| 5640.000 | -51.44 | -13 | -38.44 | Horizontal |
| 7520.000 | -48.14 | -13 | -35.14 | Horizontal |
| 3760.000 | -48.01 | -13 | -35.01 | Vertical |
| 5640.000 | -53.38 | -13 | -40.38 | Vertical |
| 7520.000 | -48.70 | -13 | -35.70 | Vertical |

| GSM1900-High channel | | | | |
|----------------------|-------------|-------------|-----------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 3819.600 | -54.62 | -13 | -41.62 | Horizontal |
| 5729.400 | -49.20 | -13 | -36.20 | Horizontal |
| 7639.200 | -42.27 | -13 | -29.27 | Horizontal |
| 3819.600 | -49.95 | -13 | -36.95 | Vertical |
| 5729.400 | -50.10 | -13 | -37.10 | Vertical |
| 7639.200 | -44.39 | -13 | -31.39 | Vertical |

Remark:

We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.

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6.7 Frequency stability

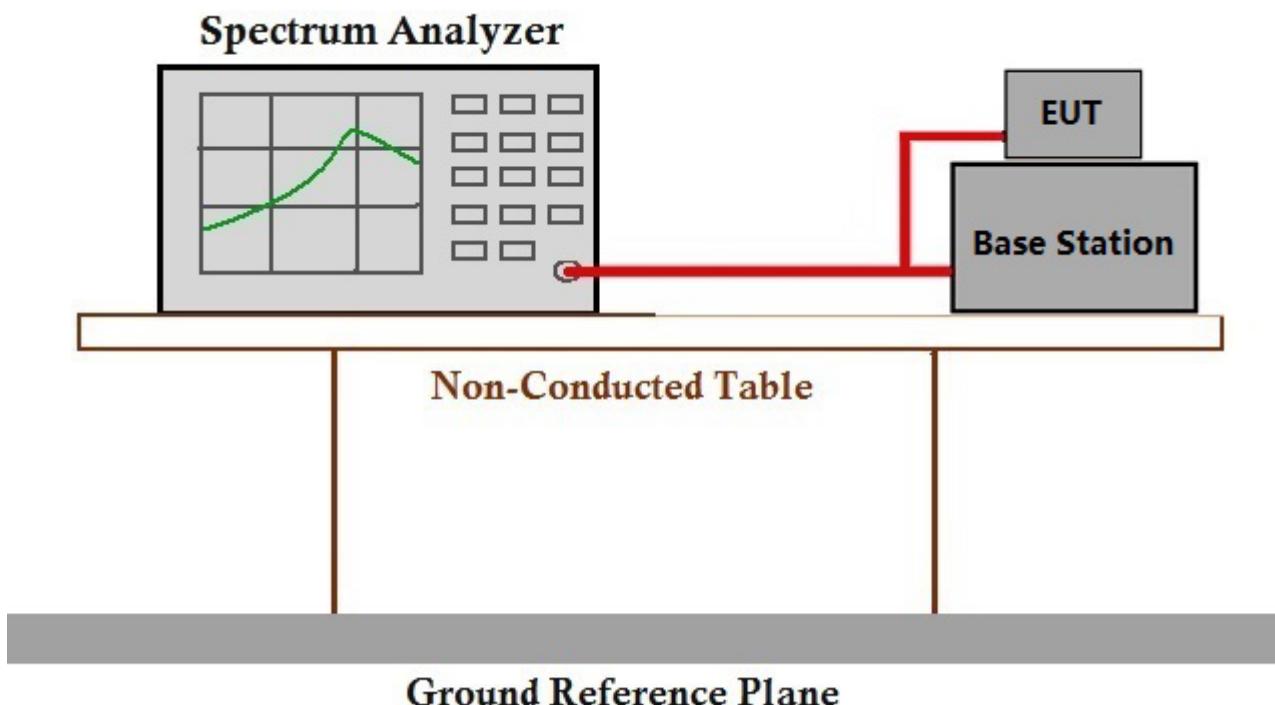
Test Requirement: §2.1055, §22.355, §24.235
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: $\leq \pm 2.5\text{ppm}$.

6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: a: Tx mode, Keep the EUT in transmitting mode.

6.7.2 Test Setup Diagram



6.7.3 Measurement Data

Please refer to Appendix E for KSCR2205000668, Appendix F for KSCR2205000668.

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6.8 Modulation Characteristics

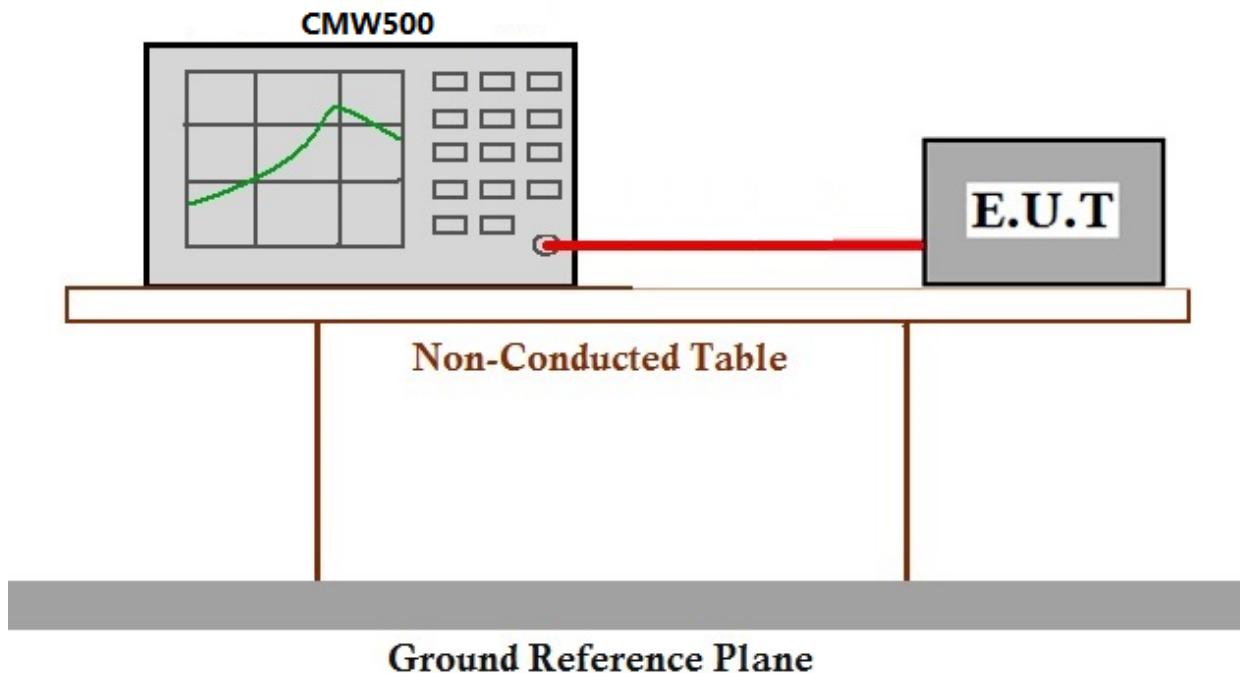
Test Requirement: §2.1047
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: Digital modulation

6.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: a: Tx mode, Keep the EUT in transmitting mode.

6.8.2 Test Setup Diagram



6.8.3 Measurement Data

Please refer to Appendix E for KSCR2205000668, Appendix F for KSCR2205000668.

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7 Photographs

Refer to the < Photographs >

- End of the Report -



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