



TEST REPORT

Application No.: SZEM2010010422CR
Applicant: PAX Technology Limited
Address of Applicant: Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour, Hong Kong, China
Manufacturer: PAX Computer Technology(Shenzhen) Co., Ltd.
Address of Manufacturer: 4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.
Factory: Guangzhou PAX Computer Technology Co., Ltd
Address of factory: No.2 Bldg, No.113 Jinyang Road, Hualong Town, Panyu, Guangzhou, Guangdong, China
Equipment Under Test (EUT):
EUT Name: Mobile Payment Terminal
Model No.: D170
Trade mark: PAX
FCC ID: V5PD170
Standard(s) : 47 CFR Part 2
 47 CFR Part 22 subpart H
 47 CFR Part 24 subpart E
Date of Receipt: 2020-10-19
Date of Test: 2020-10-21 to 2020-11-05
Date of Issue: 2020-11-05

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

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

Keny Xu
 EMC Laboratory Manager



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| <i>Revision Record</i> | | | | |
|------------------------|----------------|-------------|-----------------|---------------|
| <i>Version</i> | <i>Chapter</i> | <i>Date</i> | <i>Modifier</i> | <i>Remark</i> |
| 01 | | 2020-11-05 | | Original |
| | | | | |
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| | | | |
|---------------------------------|--|---|--|
| Authorized for issue by: | | | |
| | |  | |
| | | <hr/> Calvin Weng /Project Engineer | |
| | |  | |
| | | <hr/> 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 | ERP≤7W(GSM850, WCDMA band V) EIRP≤2W(GSM1900, WCDMA band II) | 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 |
| Field strength of spurious radiation | §2.1051, §22.917, §24.238 | ≤ -13dBm | PASS |
| Frequency stability | §2.1055, §22.355, §24.235 | ≤ ±2.5ppm. | PASS |



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4 General Information

4.1 Details of E.U.T.

| | |
|------------------------------|--|
| Rated voltage: | DC3.7V |
| Power adapter: | Adapter M/N: A18A-050100U-US2 Adapter input: AC100-240V, 50/60Hz, 0.2A Adapter output: DC5V/1A |
| Battery: | DC3.7V(1100mAh) |
| Sample Type: | Portable production |
| Support Network: | GPRS, EGPRS, RMC, HSDPA, HSUPA |
| Operation Frequency Band: | GSM850/GSM1900/UMTS FDD Band II/V |
| Modulation Type: | GMSK for GPRS/EGPRS; 8PSK for EGPRS; QPSK for WCDMA |
| Supported Channel Bandwidth: | 200KHz for GSM; 5MHz for WCDMA |
| GPRS Class: | 12 |
| EGPRS Class: | 12 |
| UMTS Power Class: | Level 3 |
| Antenna Type: | PIFA antenna |
| Antenna Gain: | GSM850MHz: 1dBi, DCS1900MHz: 0.5dBi. UMTS band II: 0.5dBi UMTS band V: 1dBi |
| SIM Card: | This device has dual SIM Card sockets. Both the SIM sockets have been tested. SIM1 was worst case, only record SIM1. |
| Extreme temp. Tolerance: | -30°C to +50°C |
| Extreme vol. Limits: | 3.3VDC to 4.2VDC (nominal: 3.7VDC) |



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 |
| Test Mode | TX/RX | RF Channel | | |
| | | Low(L) | Middle (M) | High (H) |
| WCDMA Band V | TX | Channel 4132 | Channel 4183 | Channel 4233 |
| | | 826.4 MHz | 836.6 MHz | 846.6 MHz |
| | RX | Channel 4357 | Channel 4407 | Channel 4458 |
| | | 871.4 MHz | 881.4 MHz | 891.6 MHz |
| Test Mode | TX/RX | RF Channel | | |
| | | Low(L) | Middle (M) | High (H) |
| WCDMA Band II | TX | Channel 9262 | Channel 9400 | Channel 9538 |
| | | 1852.4 MHz | 1880.0 MHz | 1907.6 MHz |
| | RX | Channel 9662 | Channel 9800 | Channel 9938 |
| | | 1932.4 MHz | 1960.0 MHz | 1987.6 MHz |

4.3 Test Environment

| Environment Parameter | Selected Values During Tests | | |
|-----------------------|------------------------------|-------|--|
| Relative Humidity | 52% | | |
| Atmospheric Pressure: | 1015Pa | | |
| Temperature: | TN | 20 °C | |
| Voltage: | VL | 3.3 V | |
| | VN | 3.7 V | |
| | VH | 4.2 V | |

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 independent unit.

4.5 Measurement Uncertainty

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



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4.6 Test Location

All tests were performed at:

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

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

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 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 (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 |
| 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 |
| 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2018-03-13 | 2021-03-12 |
| EXA Signal Analyzer (10Hz-44GHz) | Agilent Technologies Inc | N9010A | SEM004-12 | 2020-04-11 | 2021-04-10 |
| Horn Antenna (800MHz-18GHz) | Rohde & Schwarz | HF907 | SEM003-07 | 2018-04-13 | 2021-04-12 |
| Horn Antenna (15-40GHz) | Schwarzbeck | BBHA 9170 | SEM003-15 | 2020-10-16 | 2023-10-15 |
| Amplifier (0.1-1300MHz) | HP | 8447D | SEM005-02 | 2020-09-23 | 2021-09-22 |
| Pre-Amplifier (0.1-26.5GHz) | Compliance Directions Systems Inc. | PAP-0126 | SEM004-11 | 2019-11-11 | 2020-11-10 |
| Pre-amplifier (26-40GHz) | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2020-03-31 | 2021-03-30 |
| Universal Radio Communication Tester | Rohde & Schwarz | CMW 500 | SEM010-03 | 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 | SEM026-01 | 2020-07-10 | 2021-07-09 |
| 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 |

| RE in Chamber | | | | | |
|----------------|--------------|-----------|---------------|-----------|---------------|
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date | Cal. Due date |



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| | | | | | |
|--------------------------------------|----------------------|-----------------|-----------|------------|------------|
| 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEM001-01 | 2020-07-19 | 2023-07-18 |
| 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 |

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

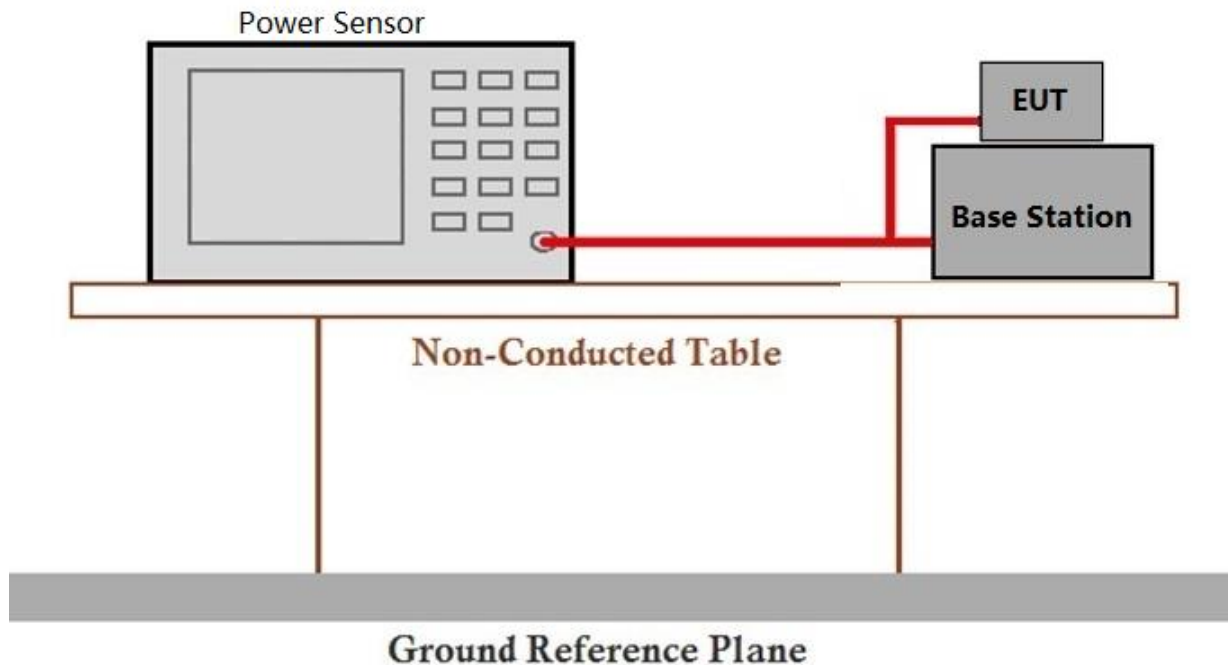
6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §22.913, §24.232
 Test Method: ANSI C63.26, KDB 971168 D01 v03
 Limit: ERP≤7W(GSM850, WCDMA BAND V)
 EIRP ≤ 2W(GSM1900, WCDMA BAND II)

6.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 mbar
 Test mode: f:TX mode_Keep the EUT in transmitting mode

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

Please refer to Appendix A-2G3G RF conducted test data



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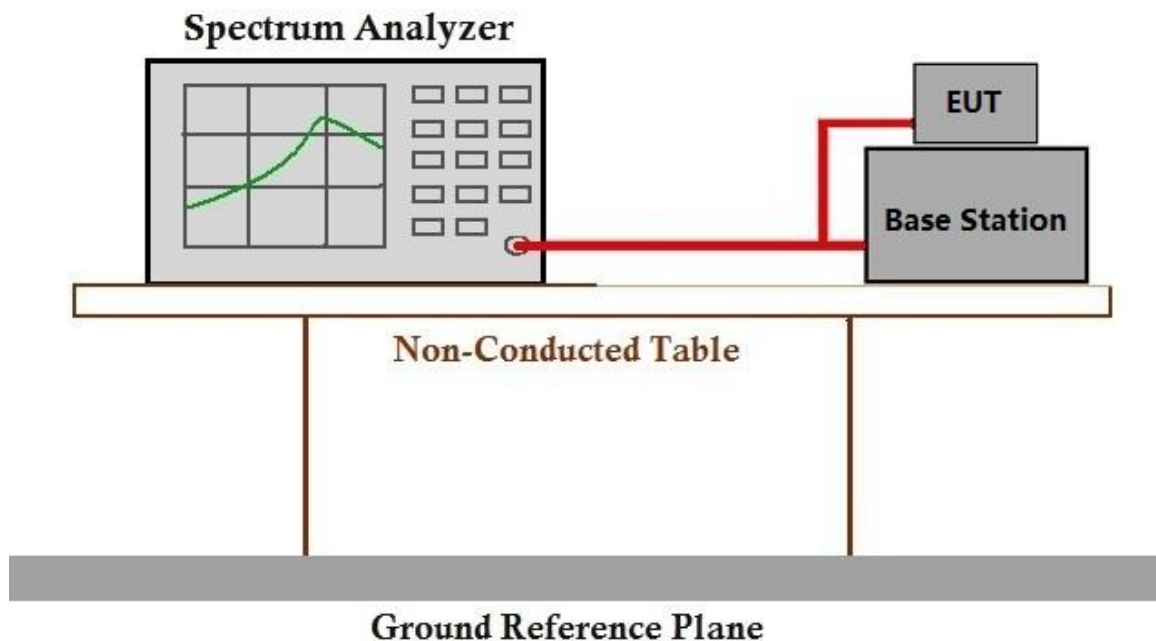
6.2 Peak-Average Ratio

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: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 mbar
 Test mode: f:TX mode_Keep the EUT in transmitting mode

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

Please refer to Appendix A-2G3G RF conducted test data



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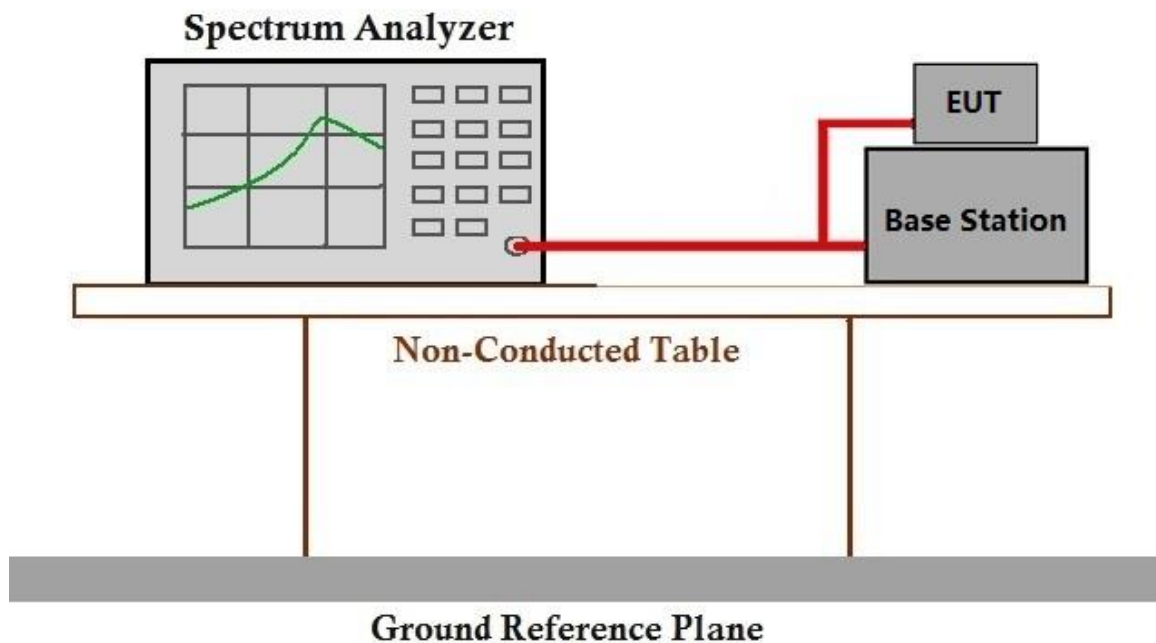
6.3 Bandwidth

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: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 mbar
 Test mode: f:TX mode_Keep the EUT in transmitting mode

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

Please refer to Appendix A-2G3G RF conducted test data



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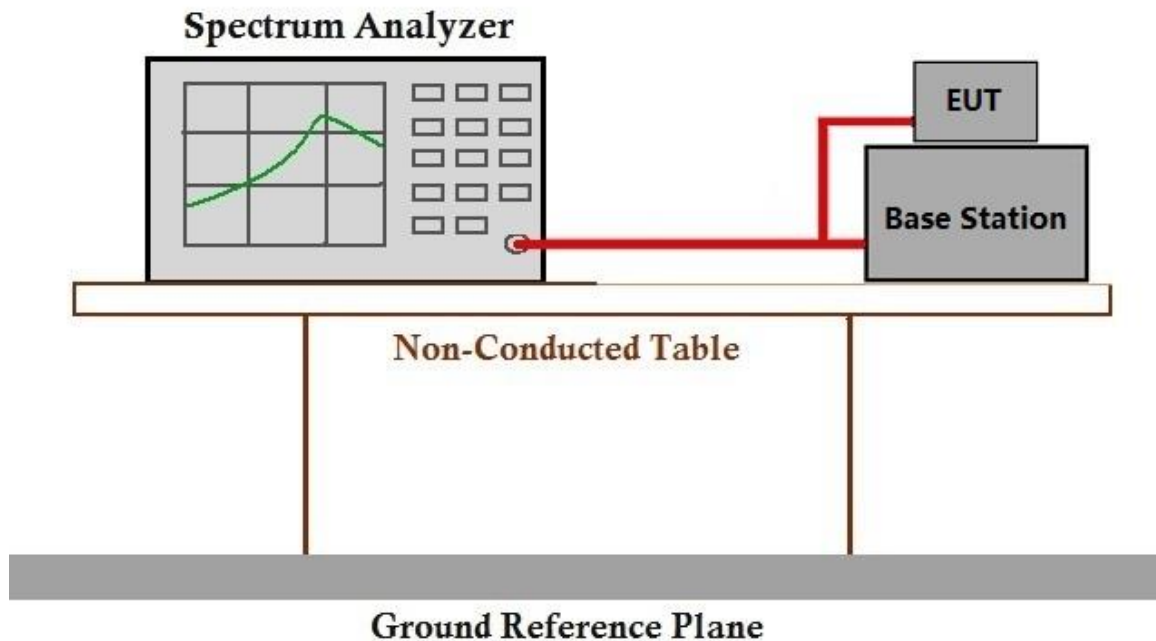
6.4 Band Edge Compliance

Test Requirement: §2.1051, §22.917, §24.238
 Test Method: ANSI C63.26, KDB 971168 D01 v03
 Limit: $\leq -13\text{dBm}/1\% \cdot \text{EBW}$, in 1 MHz bands immediately outside and adjacent to the frequency block.

6.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 mbar
 Test mode: f:TX mode_Keep the EUT in transmitting mode

6.4.2 Test Setup Diagram



6.4.3 Measurement Data

Please refer to Appendix A-2G3G RF conducted test data



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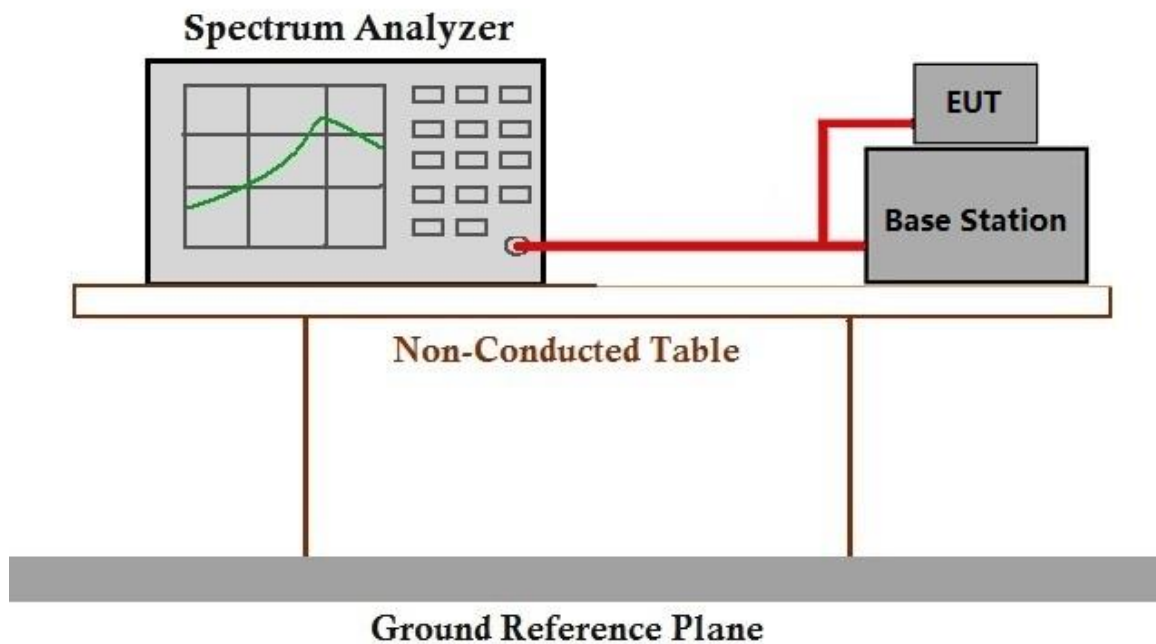
6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §22.917, §24.238
 Test Method: ANSI C63.26, KDB 971168 D01 v03
 Limit: ≤ -13dBm

6.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 mbar
 Test mode: f:TX mode_Keep the EUT in transmitting mode

6.5.2 Test Setup Diagram



6.5.3 Measurement Data

Please refer to Appendix A-2G3G RF conducted test data



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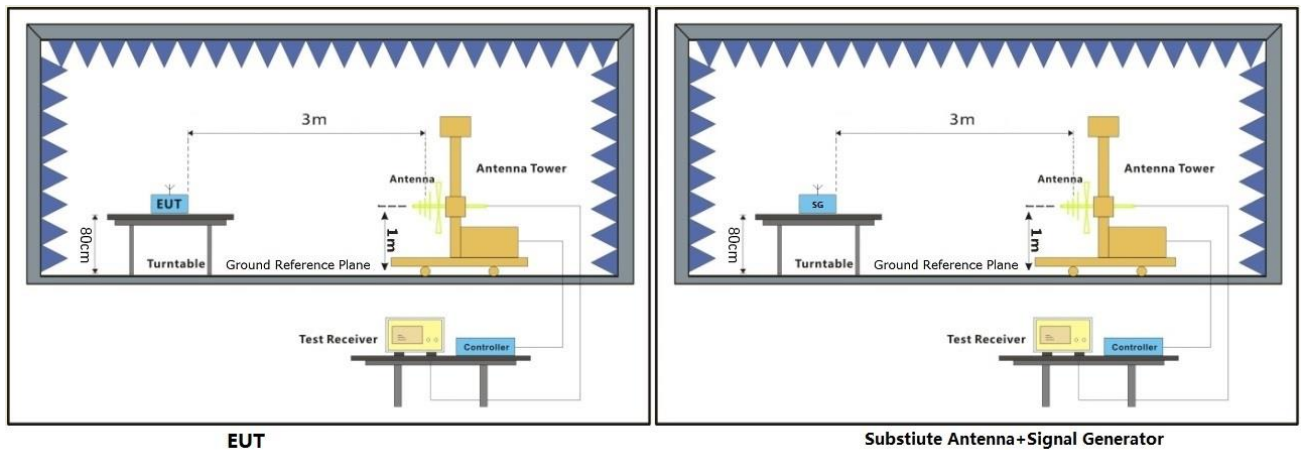
6.6 Field strength of spurious radiation

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: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 mbar
 Test mode: f:TX mode_Keep the EUT in transmitting mode

6.6.2 Test Setup Diagram



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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| GPRS850-Low channel | | | | | | | | |
|---------------------|------------------|-----------------|--------------------|------------|-------------|-----------------|--------------------|--------|
| Frequency (MHz) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | Polarization (H/V) | Result |
| 1648.4 | -64.73 | 0.52 | 6 | -46.38 | -13 | -33.38 | Horizontal | Pass |
| 2472.6 | -60.44 | 0.53 | 5.8 | -49.15 | -13 | -36.15 | Horizontal | Pass |
| 3296.8 | -57.57 | 0.65 | 6.2 | -46.07 | -13 | -33.07 | Horizontal | Pass |
| 1648.4 | -65.29 | 0.52 | 6 | -49.1 | -13 | -36.1 | Vertical | Pass |
| 2472.6 | -61.92 | 0.53 | 5.8 | -49.08 | -13 | -36.08 | Vertical | Pass |
| 3296.8 | -57.97 | 0.65 | 6.2 | -46.87 | -13 | -33.87 | Vertical | Pass |

| GPRS850-Middle channel | | | | | | | | |
|------------------------|------------------|-----------------|--------------------|------------|-------------|-----------------|--------------------|--------|
| Frequency (MHz) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | Polarization (H/V) | Result |
| 1672.8 | -63.96 | 0.52 | 6 | -44.46 | -13 | -31.46 | Horizontal | Pass |
| 2509.2 | -60.47 | 0.59 | 5.3 | -47.05 | -13 | -34.05 | Horizontal | Pass |
| 3345.6 | -56.38 | 0.65 | 6.2 | -44.66 | -13 | -31.66 | Horizontal | Pass |
| 1672.8 | -60.57 | 0.52 | 6 | -48.04 | -13 | -35.04 | Vertical | Pass |
| 2509.2 | -61.68 | 0.59 | 5.3 | -46.88 | -13 | -33.88 | Vertical | Pass |
| 3345.6 | -57.9 | 0.65 | 6.2 | -42.05 | -13 | -29.05 | Vertical | Pass |

| GPRS850-High channel | | | | | | | | |
|----------------------|------------------|-----------------|--------------------|------------|-------------|-----------------|--------------------|--------|
| Frequency (MHz) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | Polarization (H/V) | Result |
| 1697.6 | -53.21 | 0.52 | 6 | -47.73 | -13 | -34.73 | Horizontal | Pass |
| 2546.4 | -50.12 | 0.59 | 5.3 | -45.41 | -13 | -32.41 | Horizontal | Pass |
| 3395.2 | -47.65 | 0.65 | 6.2 | -42.1 | -13 | -29.1 | Horizontal | Pass |
| 1697.6 | -53.67 | 0.52 | 6 | -48.19 | -13 | -35.19 | Vertical | Pass |
| 2546.4 | -54.3 | 0.59 | 5.3 | -49.59 | -13 | -36.59 | Vertical | Pass |
| 3395.2 | -48.27 | 0.65 | 6.2 | -42.72 | -13 | -29.72 | Vertical | Pass |



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| GPRS1900-Low channel | | | | | | | | |
|----------------------|------------------|-----------------|--------------------|------------|-------------|-----------------|--------------------|--------|
| Frequency (MHz) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | Polarization (H/V) | Result |
| 3700.4 | -50.19 | 0.71 | 7.6 | -43.3 | -13 | -30.3 | Horizontal | Pass |
| 5550.6 | -48.93 | 0.85 | 10.3 | -39.48 | -13 | -26.48 | Horizontal | Pass |
| 7400.8 | -49.3 | 1 | 12.9 | -37.4 | -13 | -24.4 | Horizontal | Pass |
| 3700.4 | -48.35 | 0.71 | 7.6 | -41.46 | -13 | -28.46 | Vertical | Pass |
| 5550.6 | -51.43 | 0.85 | 10.3 | -41.98 | -13 | -28.98 | Vertical | Pass |
| 7400.8 | -51.1 | 1 | 12.9 | -39.2 | -13 | -26.2 | Vertical | Pass |

| GPRS1900-Middle channel | | | | | | | | |
|-------------------------|------------------|-----------------|--------------------|------------|-------------|-----------------|--------------------|--------|
| Frequency (MHz) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | Polarization (H/V) | Result |
| 3760 | -47.54 | 0.71 | 7.6 | -40.65 | -13 | -27.65 | Horizontal | Pass |
| 5640 | -47.19 | 0.85 | 10.3 | -37.74 | -13 | -24.74 | Horizontal | Pass |
| 7520 | -48.43 | 0.99 | 13.2 | -36.22 | -13 | -23.22 | Horizontal | Pass |
| 3760 | -45.87 | 0.71 | 7.6 | -38.98 | -13 | -25.98 | Vertical | Pass |
| 5640 | -49.78 | 0.85 | 10.3 | -40.33 | -13 | -27.33 | Vertical | Pass |
| 7520 | -50.98 | 0.99 | 13.2 | -38.77 | -13 | -25.77 | Vertical | Pass |

| GPRS1900-High channel | | | | | | | | |
|-----------------------|------------------|-----------------|--------------------|------------|-------------|-----------------|--------------------|--------|
| Frequency (MHz) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | Polarization (H/V) | Result |
| 3819.6 | -45.32 | 0.71 | 7.6 | -38.43 | -13 | -25.43 | Horizontal | Pass |
| 5729.4 | -48.55 | 0.85 | 10.3 | -39.1 | -13 | -26.1 | Horizontal | Pass |
| 7639.2 | -49.41 | 0.99 | 13.2 | -37.2 | -13 | -24.2 | Horizontal | Pass |
| 3819.6 | -47.03 | 0.71 | 7.6 | -40.14 | -13 | -27.14 | Vertical | Pass |
| 5729.4 | -46.73 | 0.85 | 10.3 | -37.28 | -13 | -24.28 | Vertical | Pass |
| 7639.2 | -51.1 | 0.99 | 13.2 | -38.89 | -13 | -25.89 | Vertical | Pass |



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| WCDMA BAND V-Low channel | | | | | | | | |
|--------------------------|------------------|-----------------|--------------------|------------|-------------|-----------------|--------------------|--------|
| Frequency (MHz) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | Polarization (H/V) | Result |
| 1649.4 | -61.63 | 0.52 | 6 | -56.15 | -13 | -43.15 | Horizontal | Pass |
| 2474.1 | -57.23 | 0.53 | 5.8 | -51.96 | -13 | -38.96 | Horizontal | Pass |
| 3298.8 | -51.76 | 0.65 | 6.2 | -46.21 | -13 | -33.21 | Horizontal | Pass |
| 1649.4 | -58.42 | 0.52 | 6 | -52.94 | -13 | -39.94 | Vertical | Pass |
| 2474.1 | -58.33 | 0.53 | 5.8 | -53.06 | -13 | -40.06 | Vertical | Pass |
| 3298.8 | -51.58 | 0.65 | 6.2 | -46.03 | -13 | -33.03 | Vertical | Pass |

| WCDMA BAND V-Middle channel | | | | | | | | |
|-----------------------------|------------------|-----------------|--------------------|------------|-------------|-----------------|--------------------|--------|
| Frequency (MHz) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | Polarization (H/V) | Result |
| 1673.04 | -62.46 | 0.52 | 6 | -56.98 | -13 | -43.98 | Horizontal | Pass |
| 2509.56 | -57.57 | 0.59 | 5.3 | -52.86 | -13 | -39.86 | Horizontal | Pass |
| 3346.08 | -50.76 | 0.65 | 6.2 | -45.21 | -13 | -32.21 | Horizontal | Pass |
| 1673.04 | -60.28 | 0.52 | 6 | -54.8 | -13 | -41.8 | Vertical | Pass |
| 2509.56 | -59.93 | 0.59 | 5.3 | -55.22 | -13 | -42.22 | Vertical | Pass |
| 3346.08 | -53.13 | 0.65 | 6.2 | -47.58 | -13 | -34.58 | Vertical | Pass |

| WCDMA BAND V-High channel | | | | | | | | |
|---------------------------|------------------|-----------------|--------------------|------------|-------------|-----------------|--------------------|--------|
| Frequency (MHz) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | Polarization (H/V) | Result |
| 1696.62 | -61.41 | 0.52 | 6 | -55.93 | -13 | -42.93 | Horizontal | Pass |
| 2544.93 | -55.12 | 0.59 | 5.3 | -50.41 | -13 | -37.41 | Horizontal | Pass |
| 3393.24 | -51.17 | 0.65 | 6.2 | -45.62 | -13 | -32.62 | Horizontal | Pass |
| 1696.62 | -57.74 | 0.52 | 6 | -52.26 | -13 | -39.26 | Vertical | Pass |
| 2544.93 | -55.46 | 0.59 | 5.3 | -50.75 | -13 | -37.75 | Vertical | Pass |
| 3393.24 | -53.25 | 0.65 | 6.2 | -47.7 | -13 | -34.7 | Vertical | Pass |



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| WCDMA Band II-Low channel | | | | | | | | |
|---------------------------|------------------|-----------------|--------------------|------------|-------------|-------------|--------------------|--------|
| Frequency (MHz) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization (H/V) | Result |
| 3704.8 | -53.08 | 0.71 | 7.6 | -46.19 | -13 | -33.19 | Horizontal | Pass |
| 5557.2 | -52.81 | 0.85 | 10.3 | -43.36 | -13 | -30.36 | Horizontal | Pass |
| 7411.461 | -52.85 | 1 | 12.9 | -40.95 | -13 | -27.95 | Horizontal | Pass |
| 3704.8 | -51.58 | 0.71 | 7.6 | -44.69 | -13 | -31.69 | Vertical | Pass |
| 5557.2 | -51.3 | 0.85 | 10.3 | -41.85 | -13 | -28.85 | Vertical | Pass |
| 7409.6 | -52.09 | 1 | 12.9 | -40.19 | -13 | -27.19 | Vertical | Pass |

| WCDMA Band II-Middle channel | | | | | | | | |
|------------------------------|------------------|-----------------|--------------------|------------|-------------|-------------|--------------------|--------|
| Frequency (MHz) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization (H/V) | Result |
| 3760 | -49.75 | 0.71 | 7.6 | -42.86 | -13 | -29.86 | Horizontal | Pass |
| 5640 | -50.57 | 0.85 | 10.3 | -41.12 | -13 | -28.12 | Horizontal | Pass |
| 7520 | -51.15 | 0.99 | 13.2 | -38.94 | -13 | -25.94 | Horizontal | Pass |
| 3760 | -50.07 | 0.71 | 7.6 | -43.18 | -13 | -30.18 | Vertical | Pass |
| 5640 | -50.78 | 0.85 | 10.3 | -41.33 | -13 | -28.33 | Vertical | Pass |
| 7520 | -52.54 | 0.99 | 13.2 | -40.33 | -13 | -27.33 | Vertical | Pass |

| WCDMA Band II-High channel | | | | | | | | |
|----------------------------|------------------|-----------------|--------------------|------------|-------------|-------------|--------------------|--------|
| Frequency (MHz) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization (H/V) | Result |
| 3815.2 | -50.02 | 0.71 | 7.6 | -43.13 | -13 | -30.13 | Horizontal | Pass |
| 5722.8 | -51.26 | 0.85 | 10.3 | -41.81 | -13 | -28.81 | Horizontal | Pass |
| 7630.4 | -49.3 | 0.99 | 13.2 | -37.09 | -13 | -24.09 | Horizontal | Pass |
| 3815.2 | -50.69 | 0.71 | 7.6 | -43.8 | -13 | -30.8 | Vertical | Pass |
| 5722.8 | -51.84 | 0.85 | 10.3 | -42.39 | -13 | -29.39 | Vertical | Pass |
| 7630.4 | -52.14 | 0.99 | 13.2 | -39.93 | -13 | -26.93 | Vertical | Pass |

Note:

For GSM, all modes have been tested and we found GPRS Test mode has the worst test result. Only record the worst test result.

For WCDMA, all modes have been tested and we found RMC Test mode has the worst test result. Only record the worst test result.



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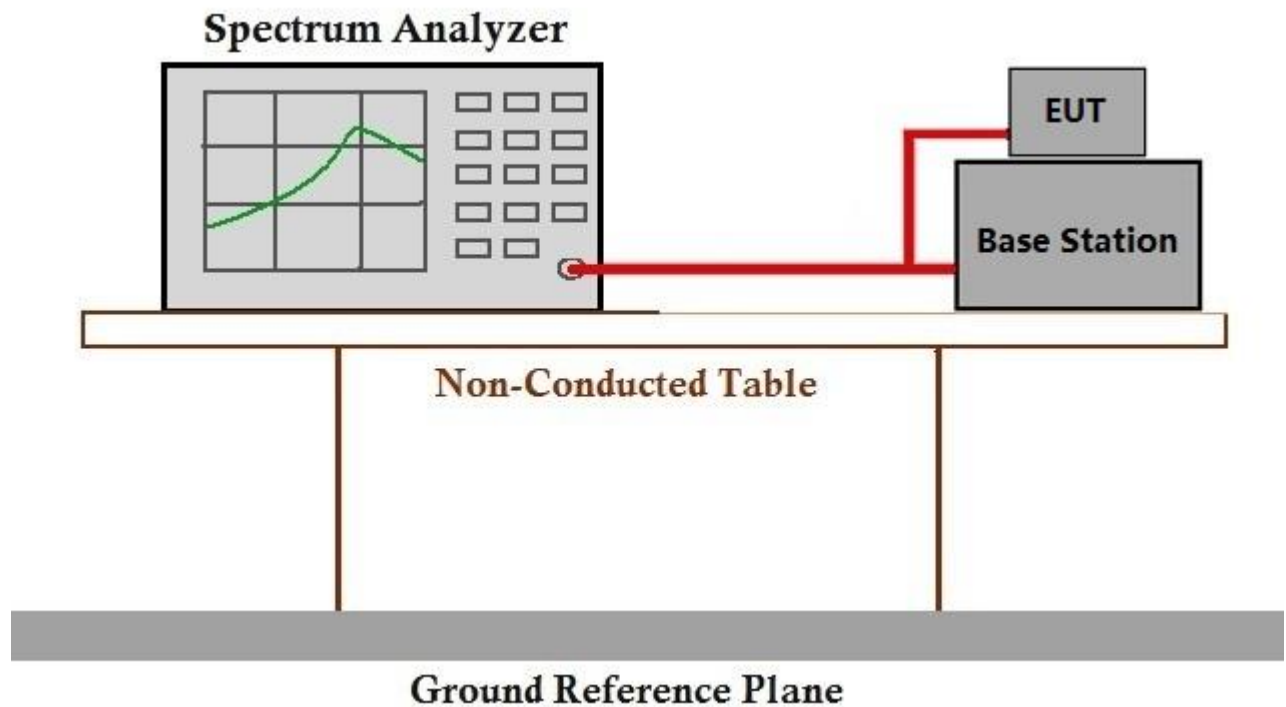
6.7 Frequency stability

Test Requirement: §2.1055, §22.355, §24.235
 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: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 mbar
 Test mode: f:TX mode_Keep the EUT in transmitting mode

6.7.2 Test Setup Diagram



6.7.3 Measurement Data

Please refer to Appendix A-2G3G RF conducted test data



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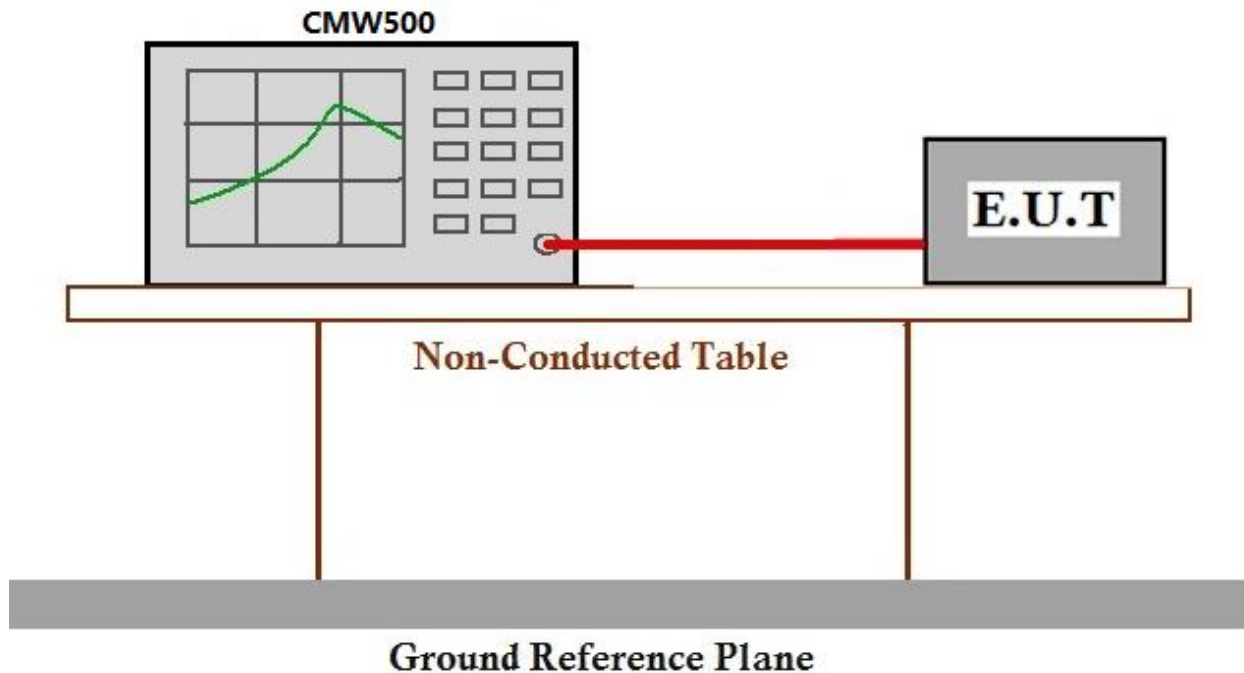
6.8 Modulation Characteristics

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: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 mbar
 Test mode: f:TX mode_Keep the EUT in transmitting mode

6.8.2 Test Setup Diagram



6.8.3 Measurement Data

Please refer to Appendix A-2G3G RF conducted test data



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7 Test Setup Photo

Please refer to setup photos.



8 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SZEM2010010422CR

- End of the Report -

