

FCC Test Report

Report No.: AGC03397250701FR01

FCC ID : SV8-X2

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : PoC Radio

BRAND NAME : YANTON

MODEL NAME : X2

APPLICANT : Quanzhou YANTON Electronics Co., Ltd.

DATE OF ISSUE : Jul. 22, 2025

STANDARD(S) : FCC Part 22 Subpart H
FCC Part 24 Subpart E
FCC Part 27 Subpart L/M

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd.



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Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0 | / | Jul. 22, 2025 | Valid | Initial Release |

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1. General Information

| | |
|------------------------------|--|
| Applicant | Quanzhou YANTON Electronics Co., Ltd. |
| Address | YANTON Building, Jinxia Road, Xiamei Town, Nan'an, China |
| Manufacturer | Quanzhou YANTON Electronics Co., Ltd. |
| Address | YANTON Building, Jinxia Road, Xiamei Town, Nan'an, China |
| Factory | Quanzhou YANTON Electronics Co., Ltd. |
| Address | YANTON Building, Jinxia Road, Xiamei Town, Nan'an, China |
| Product Designation | PoC Radio |
| Brand Name | YANTON |
| Test Model | X2 |
| Series Model(s) | N/A |
| Difference Description | N/A |
| Date of receipt of test item | Jul. 02, 2025 |
| Date of Test | Jul. 02, 2025~Jul. 22, 2025 |
| Deviation from Standard | No any deviation from the test method |
| Condition of Test Sample | Normal |
| Test Result | Pass |
| Test Report Form No | AGCER-FCC-LTE-V1 |

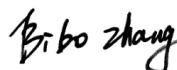
Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By

Jack Gui
(Project Engineer)

Jul. 22, 2025

Reviewed By

Bibo Zhang
(Reviewer)

Jul. 22, 2025

Approved By

Angela Li
(Authorized Officer)

Jul. 22, 2025

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2. Product Information

2.1 Product Technical Description

| | | | | |
|------------------------|--|--|--|---|
| Support Networks | LTE Function | | | |
| Hardware Version | X2-M10C-V1 | | | |
| Software Version | V1.0 | | | |
| Support Frequency Band | <input checked="" type="checkbox"/> FDD Band 2 | <input checked="" type="checkbox"/> FDD Band 4 | <input checked="" type="checkbox"/> FDD Band 5 | <input checked="" type="checkbox"/> FDD Band 7 |
| | <input type="checkbox"/> FDD Band 12 | <input type="checkbox"/> GFDD Band 13 | <input type="checkbox"/> FDD Band 14 | <input type="checkbox"/> FDD Band 17 |
| | <input type="checkbox"/> TDD Band 38 | <input type="checkbox"/> TDD Band 40 | <input type="checkbox"/> TDD Band 41 | <input checked="" type="checkbox"/> FDD Band 66 |
| | <input type="checkbox"/> FDD Band 71 (U.S. Bands) | | | |
| | <input type="checkbox"/> FDD Band 1 | <input type="checkbox"/> FDD Band 3 | <input type="checkbox"/> FDD Band 8 | <input type="checkbox"/> FDD Band 19 |
| | <input type="checkbox"/> FDD Band 20 | <input type="checkbox"/> FDD Band 28 | <input type="checkbox"/> TDD Band 38 | <input type="checkbox"/> TDD Band 39 |
| | (Non-U.S. Bands) | | | |
| TX Frequency Range | LTE-Band 2 | 1850.7 MHz – 1909.3 MHz---(1.4MHz) | | |
| | | 1851.5 MHz – 1908.5 MHz---(3.0MHz) | | |
| | | 1852.5 MHz – 1907.5 MHz---(5.0MHz) | | |
| | | 1855.0 MHz – 1905.0 MHz---(10.0MHz) | | |
| | | 1857.5 MHz – 1902.5 MHz---(15.0MHz) | | |
| | | 1860.0 MHz – 1900.0 MHz---(20.0MHz) | | |
| | LTE-Band 4 | 1710.7 MHz – 1754.3 MHz---(1.4MHz) | | |
| | | 1711.5 MHz – 1753.5 MHz---(3.0MHz) | | |
| | | 1712.5 MHz – 1752.5 MHz---(5.0MHz) | | |
| | | 1715.0 MHz – 1750.0 MHz---(10.0MHz) | | |
| | | 1717.5 MHz – 1747.5 MHz---(15.0MHz) | | |
| | | 1720.0 MHz – 1745.0 MHz---(20.0MHz) | | |
| | LTE-Band 5 | 824.7 MHz – 848.3 MHz---(1.4MHz) | | |
| | | 825.5 MHz – 847.5MHz---(3.0MHz) | | |
| | | 826.5 MHz – 846.5 MHz---(5.0MHz) | | |
| | | 829.0 MHz – 844.0 MHz---(10.0MHz) | | |
| | LTE-Band 7 | 2502.5 MHz – 2567.5 MHz---(5.0MHz) | | |
| | | 2505.0 MHz – 2565.0 MHz---(10.0MHz) | | |
| | | 2507.5 MHz – 2562.5 MHz---(15.0MHz) | | |
| | | 2510.0 MHz – 2560.0 MHz---(20.0MHz) | | |
| | LTE-Band 66 | 1710.7 MHz – 1779.3 MHz---(1.4MHz) | | |
| | | 1711.5 MHz – 1778.5 MHz---(3.0MHz) | | |
| | | 1712.5 MHz – 1777.5 MHz---(5.0MHz) | | |
| | | 1715.0 MHz – 1775.0 MHz---(10.0MHz) | | |

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| | | | | | | | |
|---|----------------------------------|-------------------------------------|-----------------|----------------|--|--|--|
| | | 1717.5 MHz – 1772.5 MHz---(15.0MHz) | | | | | |
| | | 1720.0 MHz – 1770.0 MHz---(20.0MHz) | | | | | |
| Type of Modulation | QPSK/16QAM | | | | | | |
| Antenna Designation | FPC Antenna | | | | | | |
| Antenna gain | Band 2: -1.21dBi | Band 4:-0.18dBi | Band 5:-3.34dBi | Band 7:3.23dBi | | | |
| | Band 66:-0.18dBi | | | | | | |
| Power Supply | DC 3.7V by battery | | | | | | |
| Dual Card | LTE Card Slot | | | | | | |
| Power Class | 3 | | | | | | |
| Extreme Vol. Limits | DC 3.15V to 4.2 V (Normal: 3.7V) | | | | | | |
| Extreme Temp. Tolerance | -30 °C to +50 °C | | | | | | |
| Temperature range | -20°C to +50°C | | | | | | |
| Note: The High Voltage DC 4.2V and Low Voltage DC 3.15V were declared by manufacturer, The EUT couldn't be operating normally with higher or lower voltage.. | | | | | | | |

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2.2 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **SV8-X2**, filing to comply with Part 2, Part 22/24/27 of the Federal Communication Commission rules.

2.3 Test Methodology

The tests were performed according to following standards:

| No. | Identity | Document Title |
|-----|--------------------|---|
| 1 | 47 CFR FCC Part 22 | Public Mobile Services. |
| 2 | 47 CFR FCC Part 24 | Personal Communications Services. |
| 3 | 47 CFR FCC Part 27 | Miscellaneous Wireless Communications Services. |

2.4 Device Capabilities

This device contains the following capabilities:

- Multi-Band LTE.
- This device uses a tuner circuit that dynamically updates the antenna impedance parameters to optimize antenna performance for certain bands and modes of operation. The tuner for this device was set to simulate a "free space" condition where the transmit antenna is matched to the medium into which it is transmitting and, thus, the power is at its maximum level.
- LTE Band 12 (698 - 716 MHz) overlaps the entire frequency range of LTE Band 17 (704 - 716 MHz). Therefore, test data provided in this report covers Band 17 as well as Band 12.
- LTE Band 26 (814.7-849 MHz) overlaps the entire frequency range of LTE Band 5 (824 – 849 MHz). Therefore, test data provided in this report covers Band 5 and the portion of Band 26 subject to Part 22.
- LTE Band 66 (1710-1780 MHz) overlaps the entire frequency range of LTE Band 4 (1710 - 1755 MHz). Therefore, test data provided in this report covers Band 4 as well as Band 66.
- LTE Band 25 (1850-1915 MHz) overlaps the entire frequency range of LTE Band 2 (1850 - 1910 MHz). Therefore, test data provided in this report covers Band 2 as well as Band 25.
- LTE Band 41 (2496-2690 MHz) overlaps the entire frequency range of LTE Band 38 (2560 - 2620 MHz). Therefore, test data provided in this report covers Band 41 as well as Band 38.
- The above inclusion relationship is only a statement of the frequency coverage between the LTE working bands, and the actual supported frequency bands are subject to the reported data.
- For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration.
- The emissions below 1GHz and above 18GHz were tested with the highest transmitting power channel and the worst case configuration.
- The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

2.5 Special Accessories

The battery was supplied by the applicant were used as accessories and being tested with EUT intended for FCC grant together.

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2.6 Equipment Modifications

Not available for this EUT intended for grant.

2.7 Emission Designator

GSM Emission Designator

Emission Designator = 249KGXW

GSM BW = 249 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

EDGE Emission Designator

Emission Designator = 249KG7W

GSM BW = 249 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W

WCDMA BW = 4.17 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 4M48G7D

LTE BW = 4.48 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

QAM Modulation

Emission Designator = 4M48W7D

LTE BW = 4.48 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

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3. Test Environment

3.1 Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

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

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories).

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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3.3 Environmental Conditions

| | Normal Conditions | Extreme Conditions |
|-------------------|-------------------|---------------------------|
| Temperature range | 15~35°C | -30°C~50°C |
| Humidity range | 20 % to 75 %. | 20 % to 75 %. |
| Pressure range | 86-106kPa | 86-106kPa |
| Power supply | DC 3.7V | LV DC 3.15V or HV DC 4.2V |

Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.

3.4 Measurement Uncertainty

| Test | Measurement Uncertainty |
|--|-------------------------|
| Transmitter power conducted | ±0.57 dB |
| Transmitter power Radiated | ±2.20 dB |
| Conducted spurious emission 9kHz-40GHz | ±2.20 dB |
| Occupied Bandwidth | ±0.01ppm |
| Radiated Emission 30~1000MHz | ±4.10dB |
| Radiated Emission Above 1GHz | ±4.32dB |
| Conducted Disturbance 0.15~30MHz | ±3.20dB |
| Radio Frequency | ± 6.5 x 10-8 |
| RF Power, Conducted | ± 0.9 dB |

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

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3.5 List of Test Equipment

| ● Radiated Spurious Emission | | | | | | | |
|-------------------------------------|---------------|--------------------------------------|---------------|--------------|--------------|---------------------------|---------------------------|
| Used | Equipment No. | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| <input checked="" type="checkbox"/> | AGC-EM-E046 | EMI Test Receiver | R&S | ESCI | 100096 | 2025-01-14 | 2026-01-13 |
| <input checked="" type="checkbox"/> | AGC-EM-E061 | Spectrum Analyzer | Agilent | N9010A | MY53470504 | 2025-05-08 | 2026-05-07 |
| <input checked="" type="checkbox"/> | AGC-ER-E032 | Universal Radio Communication Tester | R&S | CMW500 | 120909 | 2025-05-16 | 2026-05-15 |
| <input type="checkbox"/> | AGC-EM-E086 | Loop Antenna | ZHINAN | ZN30900C | 18051 | 2024-03-05 | 2026-03-04 |
| <input checked="" type="checkbox"/> | AGC-EM-E001 | Wideband Antenna | SCHWARZBECK | VULB9168 | D69250 | 2025-03-14 | 2027-03-13 |
| <input checked="" type="checkbox"/> | AGC-EM-E005 | Wideband Antenna | SCHWARZBECK | VULB9168 | VULB9168-494 | 2025-01-15 | 2027-01-14 |
| <input checked="" type="checkbox"/> | AGC-EM-E029 | Broadband Ridged Horn Antenna | ETS | 3117 | 00034609 | 2025-03-27 | 2026-03-26 |
| <input checked="" type="checkbox"/> | AGC-EM-E102 | Broadband Ridged Horn Antenna | ETS | 3117 | 00154520 | 2025-05-18 | 2026-05-17 |
| <input checked="" type="checkbox"/> | AGC-EM-E082 | Horn Antenna | SCHWARZBECK | BBHA 9170 | #768 | 2023-09-24 | 2025-09-23 |
| <input checked="" type="checkbox"/> | AGC-EM-E146 | Pre-amplifier | ETS | 3117-PA | 00246148 | 2024-07-24 | 2026-07-23 |
| <input type="checkbox"/> | AGC-EM-E021 | Pre-amplifier | MITEQ | AM-4A-000115 | 1465421 | 2024-05-28 | 2026-05-27 |
| <input checked="" type="checkbox"/> | AGC-ER-E059 | Signal Generator | Agilent | N5182B | MY53050647 | 2025-01-14 | 2026-01-13 |
| <input checked="" type="checkbox"/> | AGC-EM-A139 | 6dB Attenuator | Eatsheep | LM-XX-6-5W | N/A | 2025-05-16 | 2026-05-15 |
| <input type="checkbox"/> | AGC-EM-A090 | High Pass Filter 1 (2500-18000MHz) | N/A | N/A | N/A | 2025-05-16 | 2026-05-15 |
| <input checked="" type="checkbox"/> | AGC-EM-A091 | High Pass Filter 2 (1200-18000MHz) | N/A | N/A | N/A | 2025-05-16 | 2026-05-15 |
| <input checked="" type="checkbox"/> | AGC-EM-A113 | Band Stop Filter (825-850MHz) | MICRO-TRONICS | BRC50717 | N/A | 2025-05-16 | 2026-05-15 |
| <input type="checkbox"/> | AGC-EM-A114 | Band Stop Filter (880-915MHz) | MICRO-TRONICS | BRC50718 | N/A | 2025-05-16 | 2026-05-15 |
| <input checked="" type="checkbox"/> | AGC-EM-A115 | Band Stop Filter (1710-1785MHz) | MICRO-TRONICS | BRC50719 | N/A | 2025-05-16 | 2026-05-15 |
| <input checked="" type="checkbox"/> | AGC-EM-A116 | Band Stop Filter (1850-1950MHz) | MICRO-TRONICS | BRC50720 | N/A | 2025-05-16 | 2026-05-15 |
| <input type="checkbox"/> | AGC-EM-A117 | Band Stop Filter (1920-1980MHz) | MICRO-TRONICS | BRC50721 | N/A | 2025-05-16 | 2026-05-15 |

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| ● RF Conducted Test System | | | | | | | |
|-------------------------------------|---------------|--------------------------------------|--------------|-----------|------------|---------------------------|---------------------------|
| Used | Equipment No. | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| <input checked="" type="checkbox"/> | AGC-ER-E087 | Spectrum Analyzer | KEYSIGHT | N9020B | MY56101792 | 2025-05-08 | 2026-05-07 |
| <input checked="" type="checkbox"/> | AGC-ER-E032 | Universal Radio Communication Tester | R&S | CMW500 | 120909 | 2025-05-16 | 2026-05-15 |
| <input checked="" type="checkbox"/> | AGC-ER-E032 | Universal Radio Communication Tester | R&S | CMU200 | 113939 | 2025-05-21 | 2026-05-20 |
| <input checked="" type="checkbox"/> | AGC-ER-E075 | Small Environmental Tester | SH-242 | ESPEC | 93008290 | 2024-07-24 | 2026-07-23 |
| <input checked="" type="checkbox"/> | -- | Universal Switch Control Unit | Tonscend | JS | N/A | N/A | N/A |
| <input checked="" type="checkbox"/> | -- | RF Connection Cable | N/A | 1# | N/A | Each time | N/A |
| <input checked="" type="checkbox"/> | -- | RF Connection Cable | N/A | 2# | N/A | Each time | N/A |

| ● Test Software | | | | | |
|-------------------------------------|---------------|-------------------|--------------|----------------------------------|---------------------|
| Used | Equipment No. | Test Equipment | Manufacturer | Model No. | Version Information |
| <input checked="" type="checkbox"/> | AGC-ER-S006 | GSM Test System | Tonscend | JS1120-4 | 2.1.6.0 |
| <input checked="" type="checkbox"/> | AGC-ER-S007 | WCDMA Test System | Tonscend | JS1120-3 | 2.1.5.10 |
| <input checked="" type="checkbox"/> | AGC-EM-S011 | RSE Test System | Tonscend | TS ⁺ Ver2.1(JS36-RSE) | 4.0.0.0 |

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4. System Test Configuration

4.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of EUT System

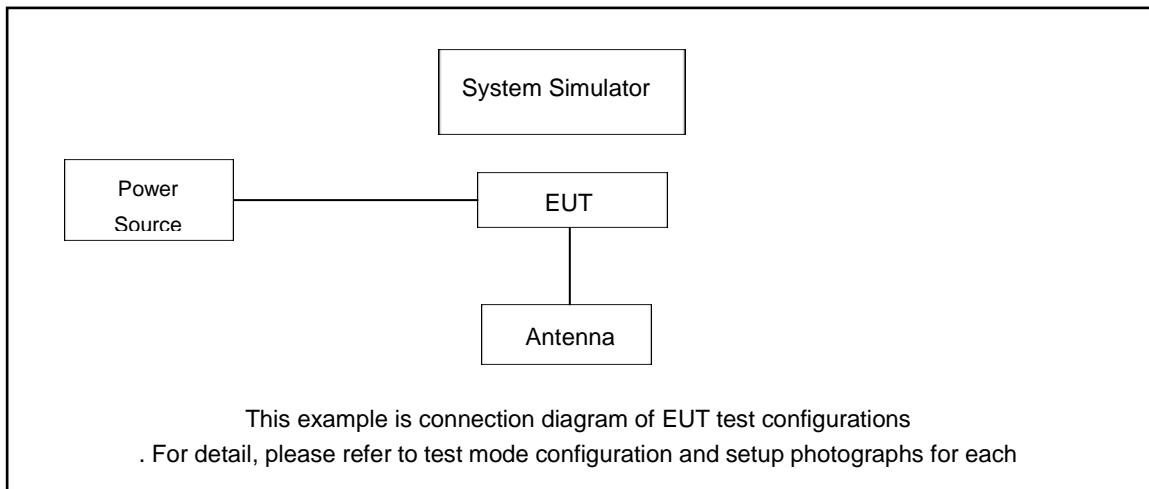


Table 2-1 Equipment Used in EUT System

4.4 Equipment Used in Tested System

The following peripheral devices and interface cables were connected during the measurement:

- Test Accessories Come From The Laboratory
- Test Accessories Come From The Manufacturer

| No. | Equipment | Model No. | Manufacturer | Specification Information | Cable |
|-----|-----------|-----------|--|---|-------|
| 1 | Battery | TB-X2L | QUANZHOU YANTON ELECTRONICS CO., LTD | DC 3.7V 3000mAh | -- |
| 2 | Adapter | DLD-818A | Xiamen Delida Electric Power Technology Co., Ltd | Input: AC 100-240V 50/60Hz 0.3A Output: DC5V 1A | -- |

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5. Summary of Test Results

5.1 Test Condition: Conducted Test

| Item | Test Description | FCC Rules | Result |
|------|---|--|--------|
| 1 | Occupied Bandwidth | §2.1049 | Pass |
| 2 | Band Edge / Spurious and Harmonic Emissions at Antenna Terminal | §2.1051, §22.917(a) , §24.238(a), §27.53(h), §27.53(m) (4) | Pass |
| 4 | Conducted Output Power | §2.1046 | Pass |
| 5 | Frequency stability / variation of ambient temperature | §2.1055, §22.355, §24.235, §27.54 | Pass |
| 6 | Peak- to- Average Ratio | §24.232(d), §27.50(d)(5) | Pass |

5.2 Test Condition: Radiated Test

| Item | Test Description | FCC Rules | Result |
|------|---|--|--------|
| 1 | Effective Radiated Power Equivalent Isotropic Radiated Power | §22.913(a)(5), §24.232(c), §27.50(d)(4) §27.50(h)(2) | Pass |
| 2 | Radiated Spurious and Harmonic Emissions | §2.1053, §22.917(a), §24.238(a), §27.53(h), §27.53(m)(4) | Pass |

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6. Description of Test Modes

During the testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication Tester (CMW 500) to ensure max power transmission and proper modulation. Three channels (The top channel, the middle channel and the bottom channel) were chosen for testing on both LTE frequency band.

The worst condition was recorded in the test report if no other modes test data.

| LTE Band 2 Channel and Frequency List | | | | |
|---------------------------------------|-------------------------|--------|--------|---------|
| BW [MHz] | Channel/Frequency (MHz) | Lowest | Middle | Highest |
| 20 | Channel | 18700 | 18900 | 19100 |
| | Frequency | 1860 | 1880 | 1900 |
| 15 | Channel | 18675 | 18900 | 19125 |
| | Frequency | 1857.5 | 1880 | 1902.5 |
| 10 | Channel | 18650 | 18900 | 19150 |
| | Frequency | 1855 | 1880 | 1905 |
| 5 | Channel | 18625 | 18900 | 19175 |
| | Frequency | 1852.5 | 1880 | 1907.5 |
| 3 | Channel | 18615 | 18900 | 19185 |
| | Frequency | 1851.5 | 1880 | 1908.5 |
| 1.4 | Channel | 18607 | 18900 | 19193 |
| | Frequency | 1850.7 | 1880 | 1909.3 |

| LTE Band 4 Channel and Frequency List | | | | |
|---------------------------------------|-------------------------|--------|--------|---------|
| BW [MHz] | Channel/Frequency (MHz) | Lowest | Middle | Highest |
| 20 | Channel | 20050 | 20175 | 20300 |
| | Frequency | 1720 | 1732.5 | 1745 |
| 15 | Channel | 20025 | 20175 | 20325 |
| | Frequency | 1717.5 | 1732.5 | 1747.5 |
| 10 | Channel | 20000 | 20175 | 20350 |
| | Frequency | 1715 | 1732.5 | 1750 |
| 5 | Channel | 19975 | 20175 | 20375 |
| | Frequency | 1712.5 | 1732.5 | 1752.5 |
| 3 | Channel | 19965 | 20175 | 20385 |
| | Frequency | 1711.5 | 1732.5 | 1753.5 |
| 1.4 | Channel | 19957 | 20175 | 20393 |
| | Frequency | 1710.7 | 1732.5 | 1754.3 |

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| LTE Band 5 Channel and Frequency List | | | | |
|---------------------------------------|-------------------------|--------|--------|---------|
| BW [MHz] | Channel/Frequency (MHz) | Lowest | Middle | Highest |
| 10 | Channel | 20450 | 20525 | 20600 |
| | Frequency | 829 | 836.5 | 844 |
| 5 | Channel | 20425 | 20525 | 20625 |
| | Frequency | 826.5 | 836.5 | 846.5 |
| 3 | Channel | 20415 | 20525 | 20635 |
| | Frequency | 825.5 | 836.5 | 847.5 |
| 1.4 | Channel | 20407 | 20525 | 20643 |
| | Frequency | 824.7 | 836.5 | 848.3 |

| LTE Band 7 Channel and Frequency List | | | | |
|---------------------------------------|-------------------------|--------|--------|---------|
| BW [MHz] | Channel/Frequency (MHz) | Lowest | Middle | Highest |
| 20 | Channel | 20850 | 21100 | 21350 |
| | Frequency | 2510 | 2535 | 2560 |
| 15 | Channel | 20825 | 21100 | 21375 |
| | Frequency | 2507.5 | 2535 | 2562.5 |
| 10 | Channel | 20800 | 21100 | 21400 |
| | Frequency | 2505 | 2535 | 2565 |
| 5 | Channel | 20775 | 21100 | 21425 |
| | Frequency | 2502.5 | 2535 | 2567.5 |

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| LTE Band 66 Channel and Frequency List | | | | |
|--|-------------------------|--------|--------|---------|
| BW [MHz] | Channel/Frequency (MHz) | Lowest | Middle | Highest |
| 20 | Channel | 132072 | 132322 | 132572 |
| | Frequency | 1720 | 1745 | 1770 |
| 15 | Channel | 132047 | 132322 | 132597 |
| | Frequency | 1717.5 | 1745 | 1772.5 |
| 10 | Channel | 132022 | 132322 | 132622 |
| | Frequency | 1715 | 1745 | 1775 |
| 5 | Channel | 131997 | 132322 | 132647 |
| | Frequency | 1712.5 | 1745 | 1777.5 |
| 3 | Channel | 131987 | 132322 | 132657 |
| | Frequency | 1711.5 | 1745 | 1778.5 |
| 1.4 | Channel | 131979 | 132322 | 132665 |
| | Frequency | 1710.7 | 1745 | 1779.3 |

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| Test Mode | Test Modes Description |
|-------------|------------------------------|
| LTE BAND 2 | LTE system, QPSK modulation |
| | LTE system, 16QAM modulation |
| LTE BAND 4 | LTE system, QPSK modulation |
| | LTE system, 16QAM modulation |
| LTE BAND 5 | LTE system, QPSK modulation |
| | LTE system, 16QAM modulation |
| LTE BAND 7 | LTE system, QPSK modulation |
| | LTE system, 16QAM modulation |
| LTE BAND 66 | LTE system, QPSK modulation |
| | LTE system, 16QAM modulation |

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- According to 3GPP 36.521 sub-clause 6.2.3.3, the maximum output power is allowed to be reduced by following the table.

Table 6.2.3.3-1: Maximum Power Reduction (MPR) For Power Class 3

| Modulation | Channel bandwidth / Transmission bandwidth configuration [RB] | | | | | | MPR (dB) |
|------------|---|---------|------|-------|-------|-------|----------|
| | 1.4 MHz | 3.0 MHz | 5MHz | 10MHz | 15MHz | 20MHz | |
| QPSK | > 5 | > 4 | > 8 | > 12 | > 16 | > 18 | ≤ 1 |
| 16 QAM | ≤ 5 | ≤ 4 | ≤ 8 | ≤ 12 | ≤ 16 | ≤ 18 | ≤ 1 |
| 16 QAM | > 5 | > 4 | > 8 | > 12 | > 16 | > 18 | ≤ 2 |

- The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (For PRACH, PUCCH and SRS transmission, the allowed MPR is according to that specified for PUSCH QPSK modulation for the corresponding transmission bandwidth.).
- When PRACH, PUCCH are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.
- For each subframe, the MPR is evaluated per slot and given by the maximum value taken over the transmission(s) within the slot, the maximum MPR over the two slots is then applied for the entire subframe.
- For the UE maximum output power modified by MPR, the power limits specified in subclause 6.2.5.3 apply.
- The normative reference for this requirement is TS 36.101 clause 6.2.3.
- The end effect is that the DUT output power is identical to the case where there is no MPR in the device.

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7. Equivalent (Isotropic) Radiated Power

7.1 Provisions Applicable

The conduction test is carried out in a shielded room.

According to the test, connect the device under test to the antenna port on the non-conductive platform directly to the test device for evaluation and measurement (ANSI-C63.26-2015 Clause 5.2)

The following rules are for the maximum radiated power limit requirements of the product:

| Mode | Nominal Max. Power |
|-------------|-------------------------------|
| LTE Band 2 | < 2 Watts max. EIRP (33dBm) |
| LTE Band 4 | < 1 Watts max. EIRP (30dBm) |
| LTE Band 5 | < 7 Watts max. ERP (38.45dBm) |
| LTE Band 7 | < 2 Watts max. EIRP (33dBm) |
| LTE Band 66 | < 1 Watts max. EIRP (30dBm) |

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7.2 Measurement Procedure

■ Measure the conducted average power as follows:

1. The transmitter output port was connected to base station.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
3. The path loss was compensated to the results for each measurement.
4. Measure the maximum burst average power and average power for other modulation signal.
5. The software records its average power as (P_{Meas})

■ The radiation power method is as follows

In many cases, the RF output power limits for licensed digital transmission devices is specified in terms of effective radiated power (ERP) or equivalent isotropic radiated power (EIRP). Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are determined by adding the transmit antenna gain to the conducted RF output power with the primary difference between the two being that when determining the ERP, the transmit antenna gain is referenced to a dipole antenna (i.e., dBd) whereas when determining the EIRP, the transmit antenna gain is referenced to an isotropic antenna (dBi). The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP/EIRP} = P_{\text{Meas}} + G_T - L_C$$

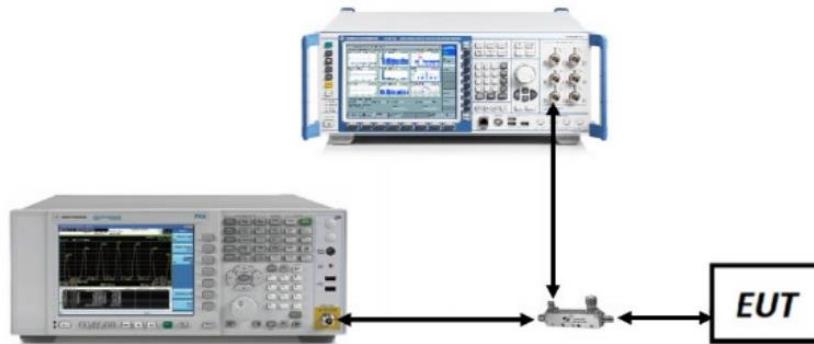
where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

- P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;
- G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
- L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

If the Fundamental frequency is below 1GHz, RF output power has been converted to EIRP.

$$\text{EIRP (dBm)} = \text{ERP (dBm)} + 2.15$$

7.3 Measurement Setup



7.4 Measurement Result

Note: The test data please reference to attachment "AGC03397250701FR01_Appendix Data"

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8. Peak-To-Average Ratio

8.1 Provisions Applicable

This is the test for the Peak-to-Average Ratio from the EUT.

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB

8.2 Measurement Procedure

⊕ CCDF Procedure for PAPR:

1. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Set the measurement interval as follows:
 - for continuous transmissions, set to 1 ms,
 - or burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time
4. that is less than or equal to the burst duration.
5. Record the maximum PAPR level associated with a probability of 0.1%.

⊕ Alternate Procedure for PAPR:

Use one of the procedures presented in 5.2(ANSI C63.26-2015) to measure the total peak power and record as PPk. Use one of the applicable procedures presented 5.2(ANSI C63.26-2015) to measure the total average power and record as PAvg. Determine the P.A.R. from:

$$\text{P.A.R(dB)} = \text{PPk (dBm)} - \text{PAvg (dBm)} \quad (\text{PAvg} = \text{Average Power} + \text{Duty cycle Factor})$$

■ Test Settings (Peak Power):

The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

1. Set the RBW \geq OBW.
2. Set VBW $\geq 3 \times$ RBW.
3. Set span $\geq 2 \times$ OBW.
4. Sweep time $\geq 10 \times$ (number of points in sweep) \times (transmission symbol period).
5. Detector = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the peak amplitude level.

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■ Test Settings (Average Power):

1. Set span to $2 \times$ to $3 \times$ the OBW.
2. Set RBW \geq OBW.
3. Set VBW $\geq 3 \times$ RBW.
4. Set number of measurement points in sweep $\geq 2 \times$ span / RBW.
5. Sweep time: Set $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission period})]$ for single sweep (Automation-compatible) measurement. The transmission period is the (on + off) time.
6. Detector = power averaging (rms).
7. Set sweep trigger to “free run.”
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. (To accurately determine the average power over the on and off period of the transmitter, it can be necessary to increase the number of traces to be averaged above 100 or, if using a manually configured sweep time, increase the sweep time.)
9. Use the peak marker function to determine the maximum amplitude level.
10. Add $[10 \log (1/\text{duty cycle})]$ to the measured maximum power level to compute the average power
11. during continuous transmission. For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is a constant 25%.

8.3 Measurement Setup**8.4 Measurement Result**

Note: The test data please reference to attachment “AGC03397250701FR01_Appendix Data”

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9. Spurious and Harmonic Emissions at Antenna Terminal

9.1 Provisions Applicable

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

- General limit requirements for measurement frequency bands:

(Involving frequency band Band2/4/5/12/13/17/38/40/41/66)

The minimum permissible attenuation level of any spurious emission is $43 + \log_{10}(P[\text{Watts}])$, where P is the transmitter power in Watts.

- The limits required by special restrictions correspond to the measurement frequency band:

- For Band 7:

- $40 + 10 \log_{10} p$ from the channel edges to 5 MHz away.
 - $43 + 10 \log_{10} p$ between 5 MHz and X MHz from the channel edges, and
 - $55 + 10 \log_{10} p$ at X MHz and beyond from the channel edges

- For Band 13:

- On all frequencies between 763-775 MHz and 793-805 MHz: $< 65 + 10 \log_{10} (P[\text{Watts}])$

- For Band 38/41:

- 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.
 - $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge.
 - The attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz.
 - $55 + 10 \log (P)$ dB at or below 2490.5 MHz.
 - X is the greater of 6MHz or the actual emission bandwidth.

9.2 Measurement Procedure

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to at least 10 * the fundamental frequency (separated into at least two plots per channel)
2. RBW = 1 MHz
3. VBW \geq 3 MHz
4. Detector = RMS
5. Trace Mode = Average
6. Sweep time = auto
7. Number of points in sweep $\geq 2 * \text{Span} / \text{RBW}$

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Test Note

Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

9.3 Measurement Setup**9.4 Measurement Result**

Note:

1. Note: The test data please reference to attachment "AGC03397250701FR01_Appendix Data"
2. No transmission signal is found in standby or receiving mode, and the default value is lower than the limit of 20dB, which is not recorded in this report.

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10. Radiated Spurious Emission

10.1 Provisions Applicable

1. The general requirement for all radiated spurious emissions is: the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least $43+10\log(P)$ dB. The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm.
2. For special radiation spurious emission requirements, please refer to the specific divisions in Chapter 9.1 of this report.
3. For Undesirable Emissions in the 1559 – 1610 MHz band (Only available for Band 13&14):
 - 70dBW/MHz (-40dBm/MHz) EIRP (Wideband Limit)
 - 80dBW/MHz (-50dBm/MHz) EIRP (Narrowband Limit)

10.2 Measurement Procedure

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.

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9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.
11. For spurious emissions above 1GHz, a horn antenna is substituted in place of the EUT.
 The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.
 The spurious emissions is calculated by the following formula:

$$\text{Result(dBm)} = \text{Pg(dBm)} + \text{Factor(dB)}$$

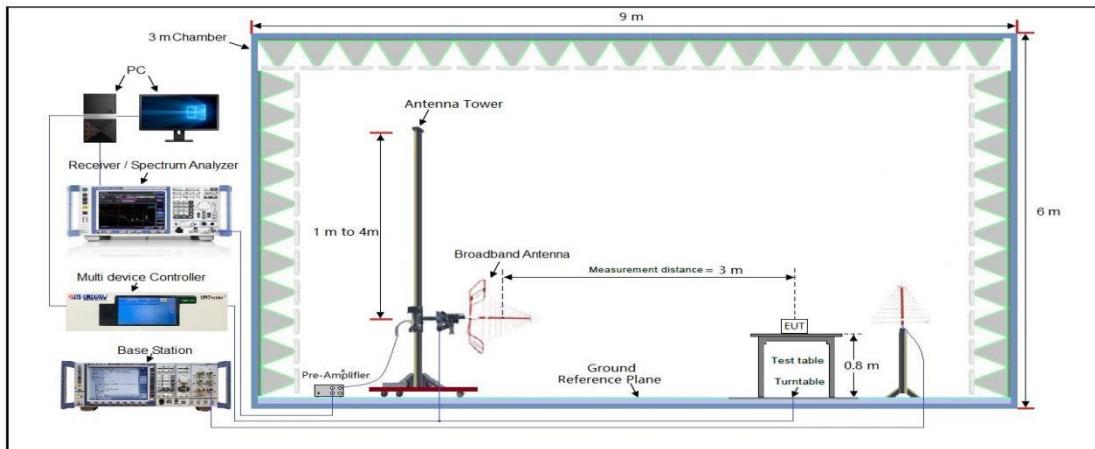
$$\text{Factor(dB)} = \text{Ant Gain(dB)} - \text{Cable Loss(dB)} + \text{Power Splitter(dB)} \text{ (Above 1GHz)}$$

$$\text{Factor(dB)} = \text{Ant Gain(dB)} - \text{Cable Loss(dB)} \text{ (Below 1GHz)}$$
12. Where: Pg is the generator output power into the substitution antenna.
13. If the fundamental frequency is below 1GHz, RF output power has been converted to EIRP.

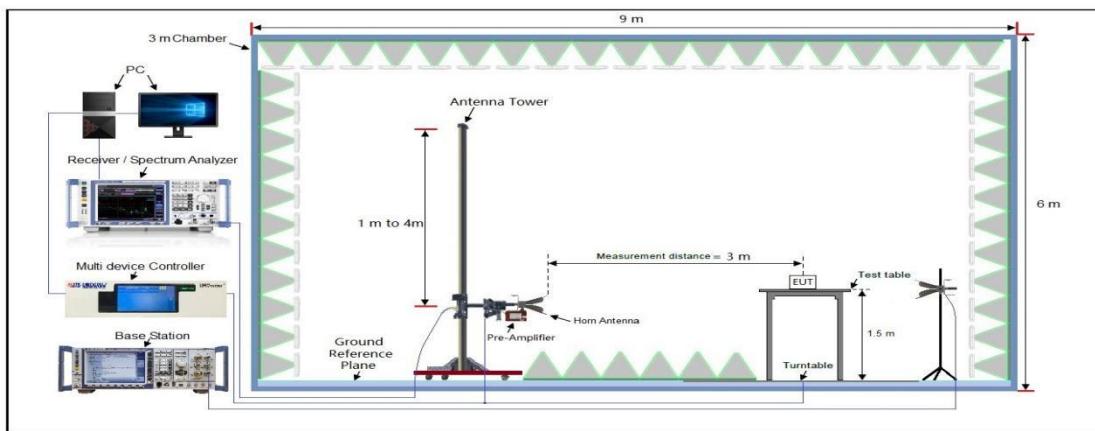
$$\text{EIRP(dBm)} = \text{ERP(dBm)} + 2.15$$

10.3 Measurement Setup

Radiated Emissions 30MHz to 1GHz Test setup



Radiated Emissions Above 1GHz Test setup



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10.4 Measurement Result

| LTE Band 2 / 1.4MHz / QPSK | | | | | | | |
|----------------------------|-----------------|---------------------|-------------|----------------------|-------------|-------------|----------------|
| Channel | Frequency (MHz) | Reading Level (dBm) | Factor (dB) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | Polarity (H/V) |
| Low | 5640.0 | -42.87 | 5.66 | -37.21 | -13 | -24.21 | V |
| | 3760.0 | -32.83 | 2.09 | -30.74 | -13 | -17.74 | V |
| | 885.78 | -63.78 | 37.77 | -26.01 | -13 | -13.01 | V |
| | 618.42 | -63.14 | 35.39 | -27.76 | -13 | -14.76 | V |
| | 5640.0 | -45.47 | 5.66 | -39.81 | -13 | -26.81 | H |
| | 3760.0 | -37.21 | 2.09 | -35.12 | -13 | -22.12 | H |
| | 851.12 | -70.13 | 37.77 | -32.36 | -13 | -19.36 | H |
| | 732.53 | -69.22 | 35.39 | -33.83 | -13 | -20.83 | H |

| LTE Band 2 / 1.4MHz / QPSK | | | | | | | |
|----------------------------|-----------------|---------------------|-------------|----------------------|-------------|-------------|----------------|
| Channel | Frequency (MHz) | Reading Level (dBm) | Factor (dB) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | Polarity (H/V) |
| Middle | 5580.0 | -42.45 | 5.66 | -36.79 | -13 | -23.79 | V |
| | 3720.0 | -33.86 | 2.09 | -31.77 | -13 | -18.77 | V |
| | 695.51 | -65.10 | 37.77 | -27.33 | -13 | -14.33 | V |
| | 412.63 | -62.00 | 35.39 | -26.61 | -13 | -13.61 | V |
| | 5580.0 | -45.06 | 5.66 | -39.40 | -13 | -26.40 | H |
| | 3720.0 | -36.32 | 2.09 | -34.24 | -13 | -21.24 | H |
| | 678.23 | -69.62 | 37.77 | -31.85 | -13 | -18.85 | H |
| | 452.42 | -70.61 | 35.39 | -35.22 | -13 | -22.22 | H |

| LTE Band 2 / 1.4MHz / QPSK | | | | | | | |
|----------------------------|-----------------|---------------------|-------------|----------------------|-------------|-------------|----------------|
| Channel | Frequency (MHz) | Reading Level (dBm) | Factor (dB) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | Polarity (H/V) |
| High | 5700.0 | -44.11 | 5.66 | -38.45 | -13 | -25.45 | V |
| | 3800.0 | -34.74 | 2.09 | -32.65 | -13 | -19.65 | V |
| | 614.51 | -63.65 | 37.77 | -25.88 | -13 | -12.88 | V |
| | 510.82 | -61.90 | 35.39 | -26.51 | -13 | -13.51 | V |
| | 5700.0 | -46.13 | 5.66 | -40.47 | -13 | -27.47 | H |
| | 3800.0 | -37.26 | 2.09 | -35.17 | -13 | -22.17 | H |
| | 658.83 | -68.97 | 37.77 | -31.21 | -13 | -18.21 | H |
| | 563.41 | -70.62 | 35.39 | -35.24 | -13 | -22.24 | H |

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| LTE Band 4 / 1.4MHz / QPSK | | | | | | | |
|----------------------------|-----------------|---------------------|-------------|----------------------|-------------|-------------|----------------|
| Channel | Frequency (MHz) | Reading Level (dBm) | Factor (dB) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | Polarity (H/V) |
| Low | 5160.0 | -43.75 | 5.66 | -38.09 | -13 | -25.09 | V |
| | 3440.0 | -34.69 | 2.09 | -32.60 | -13 | -19.60 | V |
| | 769.12 | -64.43 | 37.77 | -26.66 | -13 | -13.66 | V |
| | 528.53 | -62.67 | 35.39 | -27.28 | -13 | -14.28 | V |
| | 5160.0 | -45.54 | 5.66 | -39.89 | -13 | -26.89 | H |
| | 3440.0 | -36.48 | 2.09 | -34.39 | -13 | -21.39 | H |
| | 558.12 | -69.97 | 37.77 | -32.21 | -13 | -19.21 | H |
| | 378.05 | -69.94 | 35.39 | -34.55 | -13 | -21.55 | H |

| LTE Band 4 / 1.4MHz / QPSK | | | | | | | |
|----------------------------|-----------------|---------------------|-------------|----------------------|-------------|-------------|----------------|
| Channel | Frequency (MHz) | Reading Level (dBm) | Factor (dB) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | Polarity (H/V) |
| Middle | 5197.5 | -42.80 | 5.66 | -37.14 | -13 | -24.14 | V |
| | 3465.0 | -34.37 | 2.09 | -32.28 | -13 | -19.28 | V |
| | 663.44 | -64.27 | 37.77 | -26.50 | -13 | -13.50 | V |
| | 512.52 | -61.88 | 35.39 | -26.50 | -13 | -13.50 | V |
| | 5197.5 | -45.42 | 5.66 | -39.77 | -13 | -26.77 | H |
| | 3465.0 | -36.53 | 2.09 | -34.44 | -13 | -21.44 | H |
| | 569.16 | -68.94 | 37.77 | -31.17 | -13 | -18.17 | H |
| | 469.26 | -69.21 | 35.39 | -33.82 | -13 | -20.82 | H |

| LTE Band 4 / 1.4MHz / QPSK | | | | | | | |
|----------------------------|-----------------|---------------------|-------------|----------------------|-------------|-------------|----------------|
| Channel | Frequency (MHz) | Reading Level (dBm) | Factor (dB) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | Polarity (H/V) |
| High | 5235.0 | -42.88 | 5.66 | -37.22 | -13 | -24.22 | V |
| | 3490.0 | -33.59 | 2.09 | -31.50 | -13 | -18.50 | V |
| | 711.64 | -64.37 | 37.77 | -26.60 | -13 | -13.60 | V |
| | 528.60 | -62.78 | 35.39 | -27.39 | -13 | -14.39 | V |
| | 5235.0 | -45.52 | 5.66 | -39.87 | -13 | -26.87 | H |
| | 3490.0 | -37.36 | 2.09 | -35.27 | -13 | -22.27 | H |
| | 612.52 | -68.28 | 37.77 | -30.52 | -13 | -17.52 | H |
| | 553.12 | -68.86 | 35.39 | -33.48 | -13 | -20.48 | H |

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| LTE Band 5 / 1.4MHz / QPSK | | | | | | | |
|----------------------------|-----------------|---------------------|-------------|----------------------|-------------|-------------|----------------|
| Channel | Frequency (MHz) | Reading Level (dBm) | Factor (dB) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | Polarity (H/V) |
| Low | 2487.0 | -42.45 | 5.66 | -36.79 | -13 | -23.79 | V |
| | 1658.0 | -34.23 | 2.09 | -32.14 | -13 | -19.14 | V |
| | 642.22 | -63.76 | 37.77 | -25.99 | -13 | -12.99 | V |
| | 525.52 | -62.44 | 35.39 | -27.05 | -13 | -14.05 | V |
| | 2487.0 | -46.07 | 5.66 | -40.41 | -13 | -27.41 | H |
| | 1658.0 | -37.15 | 2.09 | -35.06 | -13 | -22.06 | H |
| | 631.15 | -68.33 | 37.77 | -30.56 | -13 | -17.56 | H |
| | 416.52 | -69.92 | 35.39 | -34.54 | -13 | -21.54 | H |

| LTE Band 5 / 1.4MHz / QPSK | | | | | | | |
|----------------------------|-----------------|---------------------|-------------|----------------------|-------------|-------------|----------------|
| Channel | Frequency (MHz) | Reading Level (dBm) | Factor (dB) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | Polarity (H/V) |
| Middle | 2509.5 | -42.43 | 5.66 | -36.77 | -13 | -23.77 | V |
| | 1673.0 | -32.91 | 2.09 | -30.82 | -13 | -17.82 | V |
| | 895.82 | -63.89 | 37.77 | -26.12 | -13 | -13.12 | V |
| | 716.65 | -62.73 | 35.39 | -27.34 | -13 | -14.34 | V |
| | 2509.5 | -46.91 | 5.66 | -41.25 | -13 | -28.25 | H |
| | 1673.0 | -37.80 | 2.09 | -35.71 | -13 | -22.71 | H |
| | 635.51 | -68.41 | 37.77 | -30.64 | -13 | -17.64 | H |
| | 488.91 | -68.72 | 35.39 | -33.33 | -13 | -20.33 | H |

| LTE Band 5 / 1.4MHz / QPSK | | | | | | | |
|----------------------------|-----------------|---------------------|-------------|----------------------|-------------|-------------|----------------|
| Channel | Frequency (MHz) | Reading Level (dBm) | Factor (dB) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | Polarity (H/V) |
| High | 2532.0 | -42.42 | 5.66 | -36.76 | -13 | -23.76 | V |
| | 1688.0 | -33.02 | 2.09 | -30.93 | -13 | -17.93 | V |
| | 685.32 | -63.97 | 37.77 | -26.20 | -13 | -13.20 | V |
| | 496.73 | -62.20 | 35.39 | -26.81 | -13 | -13.81 | V |
| | 2532.0 | -45.12 | 5.66 | -39.46 | -13 | -26.46 | H |
| | 1688.0 | -37.64 | 2.09 | -35.55 | -13 | -22.55 | H |
| | 774.63 | -68.74 | 37.77 | -30.97 | -13 | -17.97 | H |
| | 653.73 | -68.92 | 35.39 | -33.53 | -13 | -20.53 | H |

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| LTE Band 7 / 5MHz / QPSK | | | | | | | |
|--------------------------|-----------------|---------------------|-------------|----------------------|-------------|-------------|----------------|
| Channel | Frequency (MHz) | Reading Level (dBm) | Factor (dB) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | Polarity (H/V) |
| Low | 7507.5 | -45.99 | 7.23 | -38.76 | -25 | -13.76 | V |
| | 5005.0 | -50.89 | 4.50 | -46.39 | -25 | -21.39 | V |
| | 885.73 | -91.15 | 37.76 | -53.40 | -25 | -28.40 | V |
| | 748.92 | -87.87 | 36.85 | -51.02 | -25 | -26.02 | V |
| | 7507.5 | -48.86 | 7.23 | -41.63 | -25 | -16.63 | H |
| | 5005.0 | -51.18 | 4.50 | -46.68 | -25 | -21.68 | H |
| | 633.64 | -89.15 | 37.76 | -51.39 | -25 | -26.39 | H |
| | 592.72 | -90.45 | 36.85 | -53.60 | -25 | -28.60 | H |

| LTE Band 7 / 5MHz / QPSK | | | | | | | |
|--------------------------|-----------------|---------------------|-------------|----------------------|-------------|-------------|----------------|
| Channel | Frequency (MHz) | Reading Level (dBm) | Factor (dB) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | Polarity (H/V) |
| Middle | 7605.0 | -48.62 | 7.23 | -41.39 | -25 | -16.39 | V |
| | 5070.0 | -51.11 | 4.50 | -46.61 | -25 | -21.61 | V |
| | 973.75 | -88.99 | 37.76 | -51.23 | -25 | -26.23 | V |
| | 821.22 | -86.72 | 36.85 | -49.87 | -25 | -24.87 | V |
| | 7605.0 | -48.76 | 7.23 | -41.53 | -25 | -16.53 | H |
| | 5070.0 | -51.53 | 4.50 | -47.03 | -25 | -22.03 | H |
| | 749.63 | -89.82 | 37.76 | -52.07 | -25 | -27.07 | H |
| | 526.53 | -90.81 | 36.85 | -53.96 | -25 | -28.96 | H |

| LTE Band 7 / 5MHz / QPSK | | | | | | | |
|--------------------------|-----------------|---------------------|-------------|----------------------|-------------|-------------|----------------|
| Channel | Frequency (MHz) | Reading Level (dBm) | Factor (dB) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | Polarity (H/V) |
| High | 7702.5 | -46.35 | 7.23 | -39.12 | -25 | -14.12 | V |
| | 5135.0 | -48.98 | 4.50 | -44.48 | -25 | -19.48 | V |
| | 769.61 | -88.78 | 37.76 | -51.03 | -25 | -26.03 | V |
| | 574.46 | -88.06 | 36.85 | -51.20 | -25 | -26.20 | V |
| | 7702.59 | -50.80 | 7.23 | -43.57 | -25 | -18.57 | H |
| | 5135.0 | -51.54 | 4.50 | -47.04 | -25 | -22.04 | H |
| | 736.11 | -89.43 | 37.76 | -51.67 | -25 | -26.67 | H |
| | 425.12 | -92.23 | 36.85 | -55.37 | -25 | -30.37 | H |

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| LTE Band 66 / 1.4MHz / QPSK | | | | | | | |
|-----------------------------|-----------------|---------------------|-------------|----------------------|-------------|-------------|----------------|
| Channel | Frequency (MHz) | Reading Level (dBm) | Factor (dB) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | Polarity (H/V) |
| Low | 5132.1 | -43.89 | 5.66 | -38.23 | -13 | -25.23 | V |
| | 3421.4 | -34.40 | 2.09 | -32.31 | -13 | -19.31 | V |
| | 755.34 | -64.73 | 37.77 | -26.96 | -13 | -13.96 | V |
| | 641.53 | -62.04 | 35.39 | -26.65 | -13 | -13.65 | V |
| | 5132.1 | -45.73 | 5.66 | -40.07 | -13 | -27.07 | H |
| | 3421.4 | -38.16 | 2.09 | -36.08 | -13 | -23.08 | H |
| | 574.93 | -69.88 | 37.77 | -32.11 | -13 | -19.11 | H |
| | 421.92 | -69.69 | 35.39 | -34.30 | -13 | -21.30 | H |

| LTE Band 66 / 1.4MHz / QPSK | | | | | | | |
|-----------------------------|-----------------|---------------------|-------------|----------------------|-------------|-------------|----------------|
| Channel | Frequency (MHz) | Reading Level (dBm) | Factor (dB) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | Polarity (H/V) |
| Middle | 5235.0 | -44.25 | 5.66 | -38.59 | -13 | -25.59 | V |
| | 3490.0 | -33.53 | 2.09 | -31.44 | -13 | -18.44 | V |
| | 638.23 | -64.84 | 37.77 | -27.07 | -13 | -14.07 | V |
| | 525.71 | -63.10 | 35.39 | -27.71 | -13 | -14.71 | V |
| | 5235.0 | -45.98 | 5.66 | -40.32 | -13 | -27.32 | H |
| | 3490.0 | -37.54 | 2.09 | -35.45 | -13 | -22.45 | H |
| | 594.81 | -68.94 | 37.77 | -31.17 | -13 | -18.17 | H |
| | 432.91 | -70.57 | 35.39 | -35.19 | -13 | -22.19 | H |

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| LTE Band 66 / 1.4MHz / QPSK | | | | | | | |
|-----------------------------|-----------------|---------------------|-------------|----------------------|-------------|-------------|----------------|
| Channel | Frequency (MHz) | Reading Level (dBm) | Factor (dB) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | Polarity (H/V) |
| High | 5337.9 | -44.32 | 5.66 | -38.66 | -13 | -25.66 | V |
| | 3558.6 | -34.29 | 2.09 | -32.20 | -13 | -19.20 | V |
| | 692.62 | -64.29 | 37.77 | -26.53 | -13 | -13.53 | V |
| | 436.13 | -61.78 | 35.39 | -26.40 | -13 | -13.40 | V |
| | 5337.9 | -45.77 | 5.66 | -40.11 | -13 | -27.11 | H |
| | 3558.6 | -37.68 | 2.09 | -35.59 | -13 | -22.59 | H |
| | 647.35 | -70.17 | 37.77 | -32.41 | -13 | -19.41 | H |
| | 516.23 | -68.97 | 35.39 | -33.58 | -13 | -20.58 | H |

Note:

1. Margin(dB)=Emission Level(dBm) -Limit(dBm), Emission Level(dBm)= Reading(dBm)+Factor(dB)
2. Factor(dB) = Ant Gain -Cable Loss + Pre-amplifier
3. The radiated spurious emission has been tested with maximum bandwidth QPSK modulation, resource block size 1 and resource block offset 0.
4. The spurious emissions found in the frequency band 1559-1610MHz meet the stricter Wideband limits.
5. Below 30MHz, no spurious emission was found, and only the worst mode data above 30MHz is recorded in the report.

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11. Frequency Stability / Variation of Ambient Temperature

11.1 Provisions Applicable

11.1.1 For Hand carried battery powered equipment

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-E-2016. The frequency stability of the transmitter is measured by:

- a) Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non-hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For Part 24 and Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

12.1.2 For equipment powered by primary supply voltage

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

11.2 Measurement Procedure

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a “call mode”. This is accomplished with the use of R&S CMW500 DIGITAL RADIO COMMUNICATION TESTER.

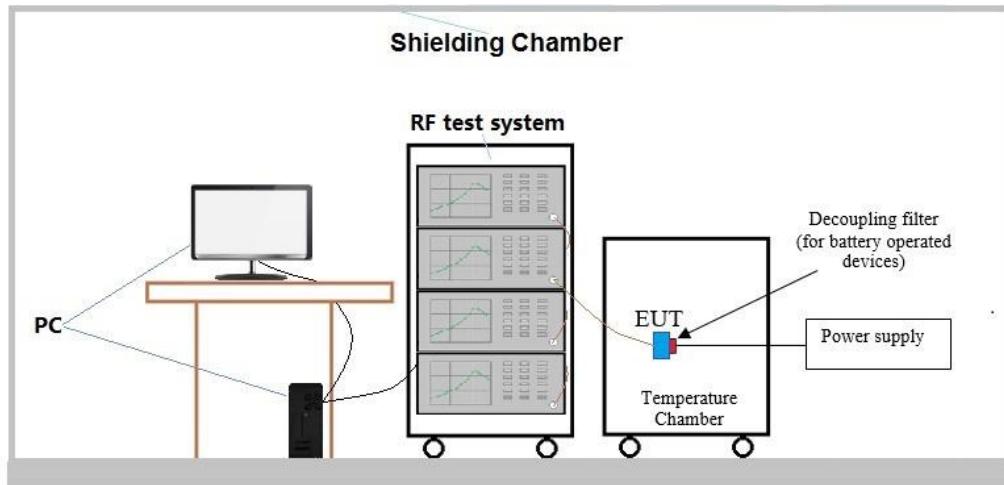
1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -10°C. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on channel 20175 for LTE band 4 measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
3. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
4. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1 Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.
5. Subject the EUT to overnight soak at +50°C.
6. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the

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centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.

7. Repeat the above measurements at 10°C increments from +50°C to -30°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
8. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

11.3 Measurement Setup



11.4 Measurement Result

Note: The test data please reference to attachment "AGC03397250701FR01_Appendix Data"

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12. 99% Occupied Bandwidth and 26dB Emission Bandwidth

12.1 Provisions Applicable

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission. The EUT makes a call to the communication simulator.

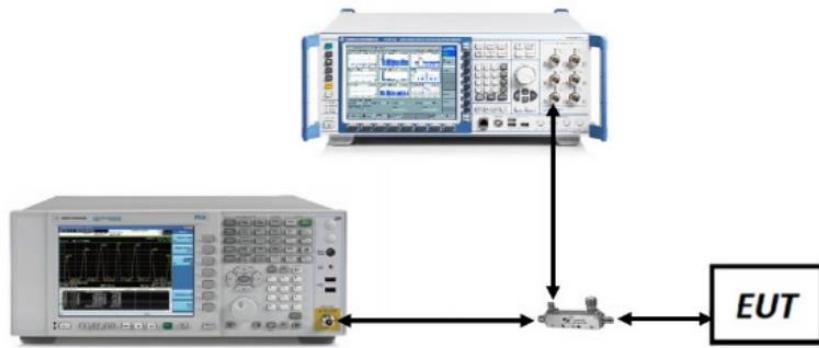
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

12.2 Measurement Procedure

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW \geq 3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

12.3 Measurement Setup



12.4 Measurement Result

Note: The test data please reference to attachment "AGC03397250701FR01_Appendix Data"

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13. Band Edge Measurement

13.1 Provisions Applicable

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

13.2 Measurement Procedure

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW > 1% of the emission bandwidth
4. VBW > 3 x RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span}/\text{RBW}$
7. Trace mode = trace average
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Note

According to FCC 22.917, 24.238, 27.53 specified that power of any emission outside of The authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. All measurements were done at 2 channels (low and high operational frequency range.)

The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

- **§27.53(c)**
 - On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
 - (2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
 - (3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
 - (4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;
 - (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;
 - (6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be

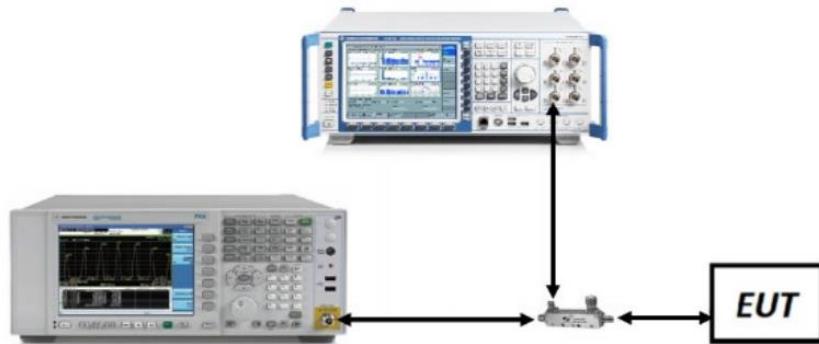
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adjusted to indicate spectral energy in a 6.25 kHz segment.

■ §27.53(m)

Equipment shall comply with the following unwanted emission limits:

- for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$
- for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least $40 + 10 \log_{10} p$ from the channel edges to 5 MHz away $43 + 10 \log_{10} p$ between 5 MHz and X MHz from the channel edges, and
- $55 + 10 \log_{10} p$ at X MHz and beyond from the channel edges In addition, the attenuation shall not be less than $43 + 10 \log_{10} p$ on all frequencies between 2490.5 MHz and 2496 MHz, and $55 + 10 \log_{10} p$ at or below 2490.5 MHz.
- In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

13.3 Measurement Setup

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13.4 Measurement Result

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Appendix I Photographs of Test Setup

Refer to the Report No.: AGC03397250701AP01

Appendix II: Photographs of EUT

Refer to the Report No.: AGC03397250701AP02

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-----End of Report-----

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