



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

EMC-TRF-01 Rev 1.1

Report No.: GZCR230600056705

Page: 1 of 20

FCC ID: OJFDMRUG2678

TEST REPORT

Application No.: GZCR2306000567AT
Applicant: Corning Optical Communication LLC
Address of Applicant: 6 Concord Road, Shrewsbury, Massachusetts, United States
Manufacturer: Comba Network Systems Company Limited
Address of Manufacturer: No. 10 Shenzhou Road, Guangzhou Science City, Guangzhou 510663, Guangdong, P.R.China

Equipment Under Test (EUT):

EUT Name: Digital Medium-power Remote Unit
Model No.: dMRU-G2-678
Trade Mark: Corning
Standard(s) : 47 CFR Part 2
47 CFR Part 20
47 CFR Part 90

Date of Receipt: 2023-06-08
Date of Test: 2023-06-15 to 2023-07-06
Date of Issue: 2023-07-10

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

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

Ricky Liu

Ricky Liu
Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center EEC Laboratory

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No.198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

| Revision Record | | | |
|-----------------|------------------|------------|----------|
| Version | Chapter | Date | Remark |
| 01 | GZCR230600056705 | 2023-07-10 | Original |
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| Authorized for issue by: | | | |
| | | Kevin Zhang | |
| | | Kevin Zhang /Project Engineer | |
| | | Jerry Chan | |
| | | Jerry Chan /Reviewer | |



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2 Test Summary

| Item | Standard | Method | Requirement | Result |
|---|----------------------|--|---------------------------------|--------|
| Out-of-band rejection | KDB935210 D05 v01r04 | KDB935210 D05 v01r04 clause 3.3 | KDB935210 D05 v01r04 clause 3.3 | Pass |
| Input-versus-output signal comparison | 47 CFR Part 2 | KDB935210 D05 v01r04 clause 3.4 | Part 2.1049 | Pass |
| Mean output power and amplifier/booster gain | 47 CFR Part 90 | KDB935210 D05 v01r04 clause 3.5 | Part 90.635 | Pass |
| Out-of-band/out-of-block(including intermodulation) emissions | | KDB935210 D05 v01r04 clause 3.6 | Part 90.691 | Pass |
| Conducted spurious emissions | | KDB935210 D05 v01r04 clause 3.6 | Part 90.691 | Pass |
| Frequency stability | | 47 CFR Part 2.1055 KDB935210 D05 v01r04 clause 3.7 ANSI C63.26-2015 Clause 5.6 | Part 90.213 | Pass |
| Radiated spurious emissions | | KDB935210 D05 v01r04 clause 3.8 ANSI C63.26-2015 Clause 5.5 | Part 90.691 | Pass |

The EUT is a remote unit of DAS which can be capable of multi-band operation (details refer to clause 4.1 of this report). It receives base-station downlink via fiber-optic or coaxial cable from host unit, transmits via antenna to handset, and returns handset uplink via fiber-optic or coaxial cable to host unit.

Only test for ESMR band downlink in this report.

Note:

E.U.T./ EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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4 General Information

4.1 Details of EUT

| | | |
|------------------------------|----------------------------|------------------------|
| Power Supply: | AC 100-240V, 50/60Hz | |
| Test Voltage: | AC 110V | |
| Cable: | AC mains (4m, unshielded) | |
| Operating Temperature: | -40 to +55 °C | |
| Operating Humidity: | ≤95% | |
| Frequency Range: | 600MHz service | Uplink: 663-698MHz |
| | | Downlink: 617-652MHz |
| | Lower & Upper 700MHz | Uplink: 698-787MHz |
| | | Downlink: 728-757MHz |
| | FirstNet | Uplink: 788-798MHz |
| | | Downlink: 758-768MHz |
| | ESMR | Uplink: 817-824MHz |
| | | Downlink: 862-869MHz |
| | Cellular | Uplink: 824-849MHz |
| | | Downlink: 869-894MHz |
| Support Technology: | LTE | |
| | 5G NR | |
| Support Channel BW: | LTE | 5MHz/10MHz/15MHz/20MHz |
| | 5G NR | 5MHz/10MHz/15MHz/20MHz |
| Interface: | Antenna Port | 2 (4.3-10 Female) |
| | CPRI Port | 1 (SFP+) |
| | Debug Port | 1 (RJ-45) |
| Normal Output Power: | 36dBm | |
| (per antenna port, downlink) | UL | -2dB |
| | DL | 13dB |
| Normal System Gain: | | |
| EUT MIMO property: | 2×2 MIMO | |
| Antenna Type: | External Dedicated Antenna | |
| Permission Antenna Gain: | 10dBi or less | |
| Software Version: | V01.00.00.04 | |



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4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|--|--------------|-------------------------|------------|
| Notebook | LENOVO | Lenovo Xiaoxinchao 5000 | PF0TNMG8 |
| RIU supplied by the client | Corning | RIU-G2-6 | / |
| | | RIU-G2-7 | / |
| | | RIU-G2-8 | / |
| | | DCU-G2 | / |
| DCU supplied by the client | | DEU-G2 | / |
| DEU supplied by the client | | | / |
| Mathced load and attenuator supplied by the client | / | / | / |

4.3 Test Environment

| Environment Parameter | Selected Values During Test | |
|-----------------------|-----------------------------|-------------|
| Ralative Humidity | Ambient | |
| Value | Temperature (°C) | Voltage (V) |
| TNVN | Asmbient | AC 110 |
| TLVL | -30 | AC 93.5 |
| TLVH | -30 | AC 126.5 |
| THVL | +50 | AC 93.5 |
| THVH | +50 | AC 126.5 |

VN: Normal Voltage, TN: Normal Teperature

VL: Lower Extreme Voltege, VH: Higher Extreme Voltage

TL: Lower Extreme Teperature, TH: Higher Extreme Teperature

4.4 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|--------------------------------|--|
| 1 | RF Output Power | ±0.75dB |
| 2 | Transmitter unwanted emissions | ±0.75dB |
| 3 | Radiated Spurious Emission | ±5.06dB (30MHz-1GHz; 3m); ±4.46dB (30MHz-1GHz; 10m); ±5.08dB (1GHz-6GHz); ±5.14dB (6GHz-18GHz) |
| 4 | Occupied Channel Bandwidth | ± 3% |



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4.5 Test Signals and Test Channels

| DL 862-869MHz | | | |
|---------------|----------------------|-------------|---------------------------|
| Test Channel | Test Frequency (MHz) | Test Signal | Stimulus Condition |
| LCH | 864.5 | 4.1MHz AWGN | a single test signal |
| MCH | 865.5 | | |
| HCH | 866.5 | | |
| LCH | 864.5, 869.5 | | two adjacent test signals |
| HCH | 861.5, 866.5 | | |
| LCH | 912 | 100MHz AWGN | a single test signal |
| MCH | 865.5 | | |
| HCH | 819 | | |
| LCH | 912, 1012 | | two adjacent test signals |
| HCH | 719, 819 | | |
| LCH | 862.4 | GSM-TDMA | a single test signal |
| MCH | 865.5 | | |
| HCH | 868.6 | | |
| LCH | 862.4, 962.8 | | two adjacent test signals |
| HCH | 868.2, 868.6 | | |



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4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

4.7 Test Facility

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

● ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

● SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

● ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

● CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



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5 Equipment List

| Conducted test equipment | | | | | |
|---|-------------------------|-----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Temperature Chamber | GZ GongWen Co.Ltd. | GDJW-100 | EMC0039 | 2023-06-29 | 2024-06-28 |
| MI CABLE | SGS-EMC | 0.8M | EMC2137 | 2021-11-02 | 2023-11-01 |
| MI CABLE | SGS-EMC | 0.8M | EMC2136 | 2021-11-02 | 2023-11-01 |
| EXA Signal Analyzer (10Hz-44GHz) | Keysight | N9010A | EMC2138 | 2022-09-08 | 2023-09-07 |
| MXA Signal Analyzer (10Hz-50GHz) | KEYSIGHT | N9020B | SEM004-24 | 2023-03-20 | 2024-03-19 |
| 4X4 Power Sensor Unit | TST | TSPS2023R | EMC2257 | 2022-09-08 | 2023-09-07 |
| Test Software | TST | V2.0 | GZE100-78 | N/A | N/A |
| ESG vector signal generator (250kHz-6GHz) | Agilent Technologies | E4438C | SEM006-03 | 2023-02-20 | 2024-02-19 |

| Radiated Emissions (30MHz-1GHz) | | | | | |
|---|--------------------------------|---------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| 10m Semi-Anechoic Chamber | ETS | N/A | EMC0530 | 2022-10-16 | 2025-10-15 |
| Chamber cable | HangTianXing | N/A | EMC0542 | 2022-08-24 | 2023-08-23 |
| Amplifier (9kHz-1.3GHz) | HP | 8447F | EMC2065 | 2023-06-14 | 2024-06-13 |
| EMI Test Receiver (1Hz- 8GHz) | Rohde & Schwarz | ESW8 | EMC2220 | 2023-05-19 | 2024-05-18 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |
| Trilog Broadband Antenna (25MHz-1GHz) | SCHWARZBECK MESS-ELEKTRONIK | VULB 9168 | EMC2174 | 2022-06-19 | 2025-06-18 |
| TRILOG Broadband Antenna (25M-2GHz) | SCHWARZBECK | VULB 9168 | SEM003-18 | 2022-03-03 | 2025-03-02 |
| EMI Test Receiver (1Hz- 8GHz) | Rohde & Schwarz | ESW8 | EMC2220 | 2023-05-19 | 2024-05-18 |



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| Radiated test equipment (above 1GHz) | | | | | |
|---|-----------------------------|---------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2022-12-16 | 2023-12-15 |
| Microwave Broadband Preamplifier (18-40GHz) | SCHWARZBECK | BBV 9721 | EMC2172 | 2022-08-24 | 2023-08-23 |
| EMI Test Receiver (10Hz-26.5GHz) | Rohde & Schwarz | ESIB26 | EMC0522 | 2022-12-16 | 2023-12-15 |
| EXA Signal Analyzer (10Hz-44GHz) | Keysight | N9010A | EMC2138 | 2022-09-08 | 2023-09-07 |
| Chamber cable (Above 1GHz) | Scoflex | KMKM-8.0m | EMC0545 | 2022-08-24 | 2024-08-23 |
| Chamber Cable (Below 1GHz) | Scoflex | KMKM-8.0m | EMC0546 | 2022-08-24 | 2024-08-23 |
| Trilog Broadband Antenna (25MHz-1GHz) | SCHWARZBECK | VULB 9160 | EMC2025 | 2022-09-07 | 2023-09-06 |
| Horn Antenna (1GHz-18GHz) | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120D | EMC2026 | 2022-09-21 | 2025-09-20 |
| Horn Antenna 1-18GHz | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120D | EMC2251 | 2022-02-02 | 2025-08-01 |
| Horn Antenna (14-40GHz) | SCHWARZBECK | BBHA 9170 | EMC2041 | 2023-06-18 | 2026-06-17 |
| Broad-Band Horn Antenna (15-40GHz) | Schwarzbeck | BBHA 9170 | SEM003-15 | 2021-7-11 | 2024-7-10 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2020-12-20 | 2023-12-19 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |



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6 Radio Spectrum Matter Test Results

6.1 Out-of-band rejection

Test Requirement: KDB 935210 D05 clause 3.3

Test Method: KDB 935210 D05 clause 3.3

Limit: Within the passband

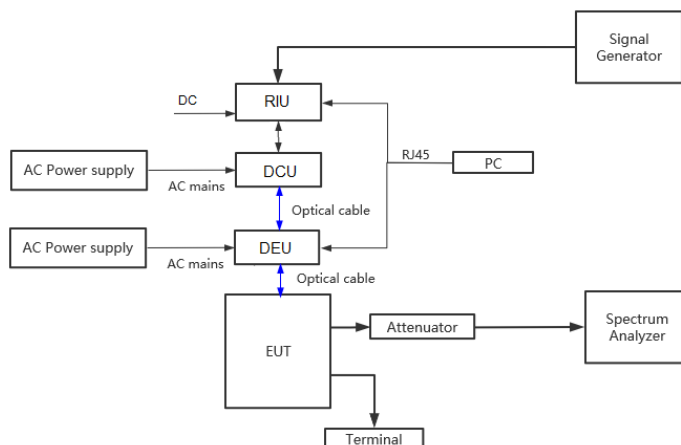
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C Humidity: 60 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

6.1.2 Test Setup



6.1.3 Measurement Record

Please refer to Appendix - Test Data and Result for report GZCR230600056705.



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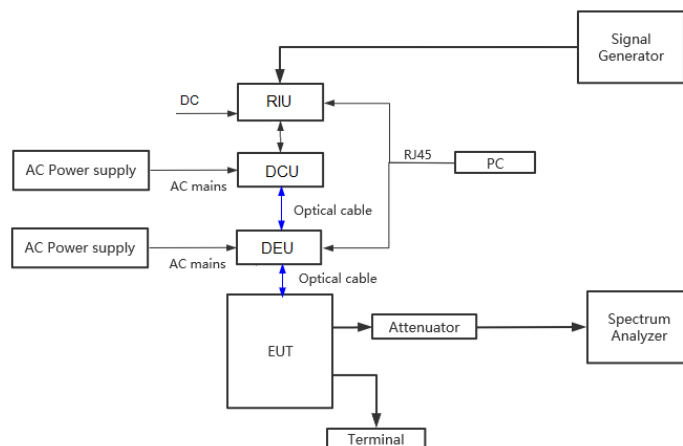
6.2 Input versus output comparison

Test Requirement: 47 CFR Part 2.1049
 Test Method: KDB 935210 D05 clause 3.4
 Limit: The spectral plots of the output signal and the input signal are similar (in passband and rolloff characteristic features and relative spectral locations).

6.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.1 °C Humidity: 60 % RH Atmospheric Pressure: 1010 mbar
 EUT Operation: Drive the EUT to the maximum output power at maximum gain.

6.2.2 Test Setup



6.2.3 Measurement Record

Please refer to Appendix - Test Data and Result for report GZCR230600056705.



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6.3 Mean output power and amplifier/booster gain

Test Requirement: 47 CFR Part 90.635

Test Method: KDB 935210 D05 clause 3.5

Limit: The effective radiated power and antenna height for base stations may not exceed 1 kilowatt (30 dBw) and 304 m. (1,000 ft.) above average terrain (AAT), respectively, or the equivalent thereof as determined from the Table. These are maximum values, and applicants will be required to justify power levels and antenna heights requested.

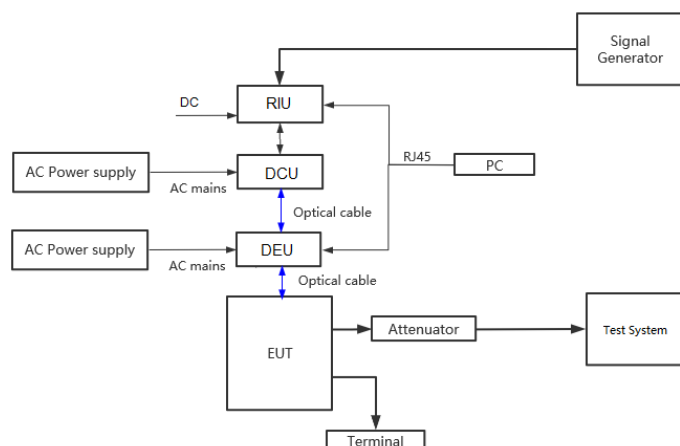
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C Humidity: 60 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

6.3.2 Test Setup



6.3.3 Measurement Record

Please refer to Appendix - Test Data and Result for report GZCR230600056705.



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6.4 Out-of-band/out-of-block(including intermodulation) emissions

Test Requirement: 47 CFR Part 90.691

Test Method: KDB 935210 D05 clause 3.6

Limit: For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

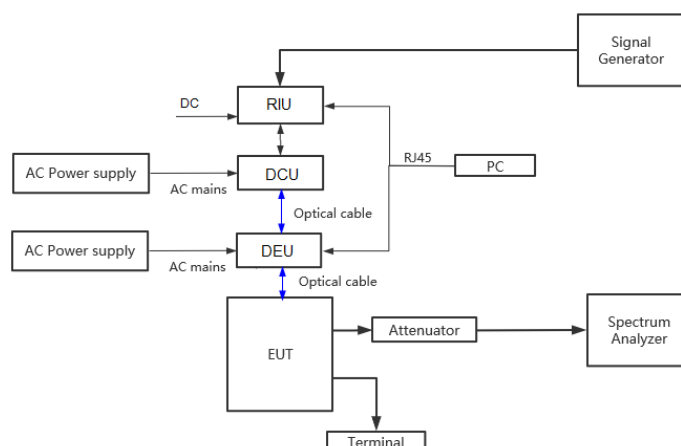
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C Humidity: 60 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

6.4.2 Test Setup



6.4.3 Measurement Record

Please refer to Appendix - Test Data and Result for report GZCR230600056705.



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6.5 Conducted Spurious emissions

Test Requirement: 47 CFR Part 90.691

Test Method: KDB 935210 D05 clause 3.6

Limit: For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

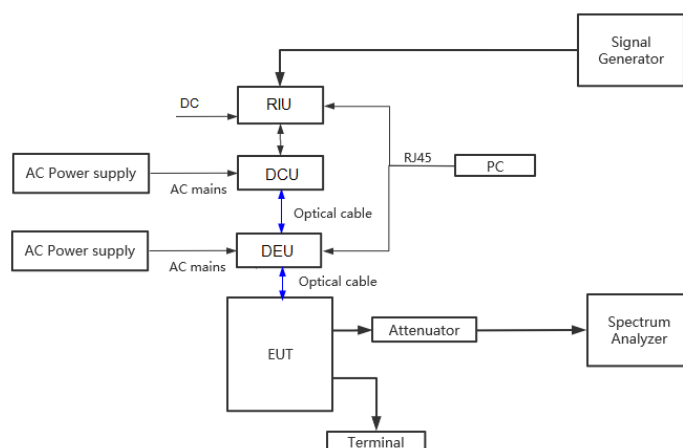
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C Humidity: 60 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

6.5.2 Test Setup



6.5.3 Measurement Record

Please refer to Appendix - Test Data and Result for report GZCR230600056705.



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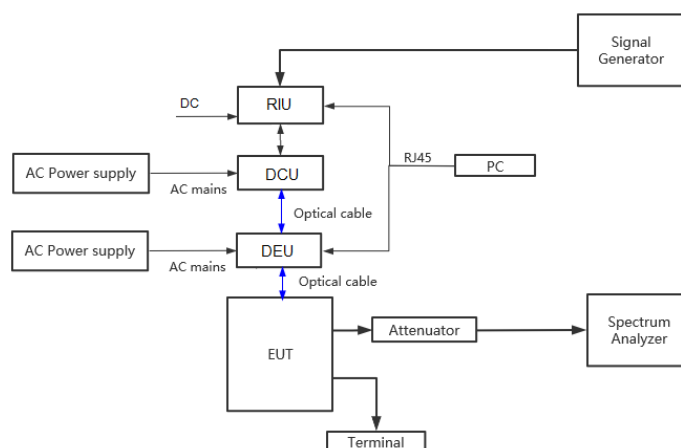
6.6 Frequency Stability

Test Requirement: 47 CFR Part 90.213
 Test Method: 47 CFR Part 2.1055
 KDB 935210 D05 clause 3.7
 ANSI C63.26-2015 clause 5.6
 Limit: ≤ 1.5 ppm

6.6.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.1 °C Humidity: 60 % RH Atmospheric Pressure: 1010 mbar
 EUT Operation: Drive the EUT to the maximum output power at maximum gain.

6.6.2 Test Setup



6.6.3 Measurement Record

Please refer to Appendix - Test Data and Result for report GZCR230600056705.



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6.7 Radiated Spurious emission

Test Requirement: 47 CFR Part 90.691

Test Method: KDB 935210 D05 clause 3.8
ANSI C63.26-2015 clause 5.5

Limit: For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

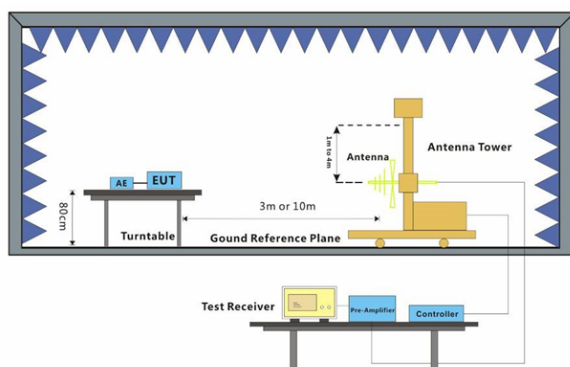
6.7.1 E.U.T. Operation

Operating Environment:

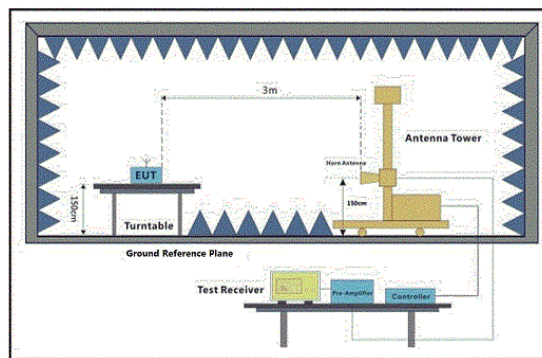
Temperature: 25.0 °C Humidity: 62 % RH Atmospheric Pressure: 1015 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

6.7.2 Test Setup



below 1GHz



above 1GHz



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6.7.3 Test procedure

1. Scan from 30MHz to 40GHz, find the maximum radiation frequency to measure.
2. The technique used to find the Spurious Emissions of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP/EIRP emission levels of the EUT.

Below 1GHz test procedure as below:

- 1) The EUT was powered on and placed on a table in the chamber. The antenna of the transmitter was extended to its maximum length. modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- 2) Rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3) Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
- 5) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.
- 6) The output power into the substitution antenna was then measured.
- 7) Steps 5) and 6)were repeated with both antennas vertically polarized.
- 8) Calculate power in dBm by the following formula:

Level (dBm) = Read Level (dBm) + Correction Factor (dB)

Above 1GHz test procedure as below:

- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber.
 - 2) Calculate power in dBm by the following formula:
- Level (dBm) = Read Level (dBm) + Correction Factor (dB)

6.7.4 Measurement Record

Please refer to Appendix - Test Data and Result for report GZCR230600056705.



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7 Test Setup Photographs

Refer to Appendix - Test Setup Photos for GZCR2306000567AT.

8 EUT Constructional Details (EUT Photos)

Refer to Appendix -External and Internal Photos for GZCR2306000567AT.

- End of the Report -



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