

EMC-TRF-01 Rev 1.1 Report No.: GZCR230600056803

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FCC ID: OJFDMRUG21719

TEST REPORT

Application No.: GZCR2306000568AT

Applicant: Corning Optical Communication LLC

Address of Applicant: 6 Concord Road, Shrewsbury, Massachusetts 01545 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-G2-1719

Trade Mark: Corning

Standard(s): 47 CFR Part 2

47 CFR Part 20 47 CFR Part 24

Date of Receipt: 2023-06-08

Date of Test: 2023-06-15 to 2023-06-29

Date of Issue: 2023-06-30

Test Result: Pass*

Ricky Liu Manager



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



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| | Revision Record | | | | | | |
|---------|------------------|------------|----------|--|--|--|--|
| Version | Chapter | Date | Remark | | | | |
| 01 | GZCR230600056803 | 2023-06-30 | Original | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Authorized for issue by: | | | |
|--------------------------|-------------------------------|---|--|
| | Kevin Zhang | | |
| | Kevin Zhang /Project Engineer | | |
| | Jery Chen | | |
| | Jerry Chan /Reviewer | 7 | |



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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 D0 v01r04 clause 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 | | KDB935210 D05 v01r04 clause 3.5 | Part 24.232 | Pass |
| Out-of-band/out-of- block(including intermodulation) emissions | | KDB935210 D05 v01r04 clause 3.6 | Part 24.238 | Pass |
| Conducted spurious esmissions | 47 CED Dort 24 | KDB935210 D05 v01r04 clause 3.6 | Part 24.238 | Pass |
| Frequency stability | 47 CFR Part 24 | 47 CFR Part 2.1055 KDB935210 D05 v01r04 clause 3.7 ANSI C63.26-2015 Clause 5.6 | Part 24.235 | Pass |
| Radiated spurious emissions | | KDB935210 D05 v01r04 clause 3.8 ANSI C63.26-2015 Clause 5.5 | Part 24.238 | 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 Broadband PCS 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: AWS-1&-3&-4

Downlink: 2110-2200MHz

Uplink: 1710-1755MHz

Uplink: 1850-1915MHz

Broadband PCS Downlink: 1930-1995MHz

AWS-2&-4 Uplink: 1915-1920MHz
Downlink: 1995-2020MHz

Support Technology: LTE

5G NR

Support Channel BW: LTE 10MHz/20MHz

5G NR 10MHz/20MHz/40MHz/50MHz/60MHz/80MHz/90MHz

Interface: Antenna Port 2 (4.3-10 Female)

CPRI Port 1 (SFP+)
Debug Port 1 (RJ-45)

Normal Output Power: AWS-1&-3&-4 37dBm

(per antenna port, downlink Broadband PCS 37dBm

AWS-2&-4 37dBm

Normal System Gain: UL -2dB

DL 14dB

EUT MIMO property: 2X2 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-G2-17 | 1 |
| RIU supplied by the client | Corning | RIU-G2-19 | 1 |
| DCU supplied by the client | | DCU-G2 | 1 |
| DEU supplied by the client | | DEU-G2 | / |
| Mathced load and attenuator supplied by the client | / | 1 | 1 |

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 Voltage, VH: Higher Extreme Voltage

TL: Lower Extreme Teperature, TH: Higher Extreme Teperature

4.4 Measurement Uncertainty

| No. | ltem | 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 1930-1995MHz | | | | | | |
|-----------------|----------------------|-------------|----------------------|--|--|--|
| Test Channel | Test Frequency (MHz) | Test Signal | Stimulus Condition | | | |
| LCH | 1932.5 | | | | | |
| МСН | 1962.5 | | a single test signal | | | |
| нсн | 1992.5 | 4.1MHz AWGN | | | | |
| LCH | 1932.5, 1937.5 | | two adjacent test | | | |
| нсн | 1987.5, 1992.5 | | signals | | | |
| LCH | 1980 | | | | | |
| мсн | 1962.5 | | a single test signal | | | |
| НСН | 1945 | 100MHz AWGN | | | | |
| LCH | 1980, 2080 | | two adjacent test | | | |
| НСН | 1845, 1945 | | signals | | | |
| LCH | 1930.4 | | | | | |
| мсн | 1962.5 | | a single test signal | | | |
| нсн | 1994.6 | GSM-TDMA | | | | |
| LCH | 1930.4, 1930.8 | | two adjacent test | | | |
| НСН | 1994.2, 1994.6 | | signals | | | |



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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, Scientech 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 | 2022-07-04 | 2023-07-03 | |
| 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 equipmen | it (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

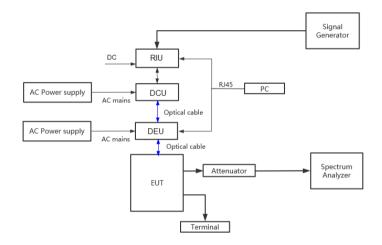
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 61 % 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 GZCR230600056803.



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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).

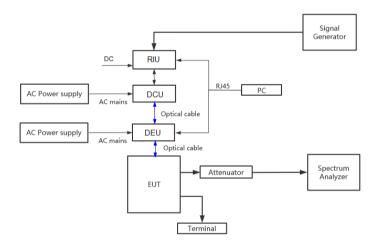
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 61 % 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 Measurem Record

Please refer to Appendix - Test Data and Result for report GZCR230600056803.



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6.3 Mean output power and amplifier/booster gain

Test Requirement: 47 CFR Part 24.232

Test Method: KDB 935210 D05 clause 3.5

Limit: Base stations with an emission bandwidth of 1 MHz or less are limited to 1640

watts equivalent isotropically radiated power (EIRP) with an antenna height up to

300 meters HAAT

Base stations with an emission bandwidth greater than 1 MHz are limited to 1640 watts/MHz equivalent isotropically radiated power (EIRP) with an antenna height

up to 300 meters HAAT

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

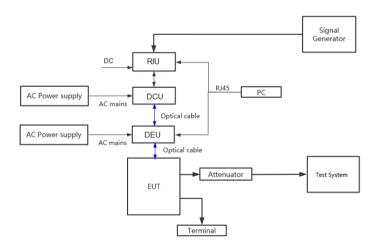
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 61 % 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 Measurem Record

Please refer to Appendix - Test Data and Result for report GZCR230600056803.



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

Test Requirement: 47 CFR Part 24.238

Test Method: KDB 935210 D05 clause 3.6

Limit: The 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.

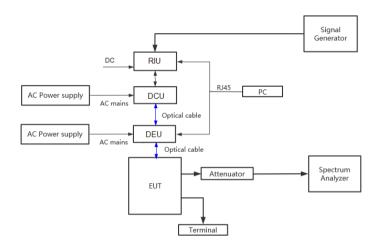
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 61 % 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 Measurem Record

Please refer to Appendix - Test Data and Result for report GZCR230600056803.



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6.5 Conducted Spurious emissions

Test Requirement: 47 CFR Part 24.238

Test Method: KDB 935210 D05 clause 3.6

Limit: The 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.

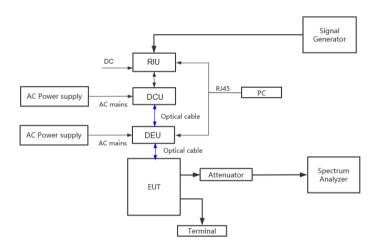
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 61 % 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 Measurem Record

Please refer to Appendix - Test Data and Result for report GZCR230600056803.



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6.6 Frequency Stability

Test Requirement: 47 CFR Part 24.235

Test Method: 47 CFR Part 2.1055

KDB 935210 D05 clause 3.7 ANSI C63.26-2015 clause 5.6

Limit: The frequency stability shall be sufficient to ensure that the fundamental

emissions stay within the authorized bands of operation.

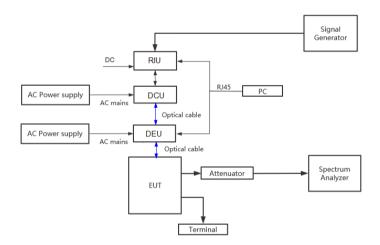
6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 61 % 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 GZCR230600056803.



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6.7 Radiated Spurious emission

Test Requirement: 47 CFR Part 24.238

Test Method: KDB 935210 D05 clause 3.8

ANSI C63.26-2015 clause 5.5

Limit: The 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.

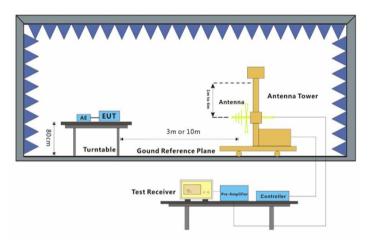
6.7.1 E.U.T. Operation

Operating Environment:

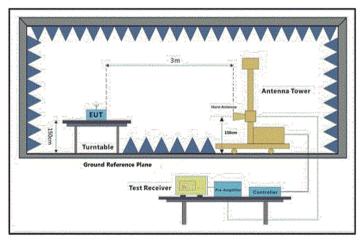
Temperature: 24.5 °C Humidity: 59 % RH Atmospheric Pressure: 1015 mbar

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

6.7.2 Test Setup



30MHz-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 GZCR230600056803.



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7 Test Setup Photographs

Refer to Appendix - Test Setup Photos for GZCR2306000568AT.

8 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2306000568AT.

- End of the Report -



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