

TEST REPORT

Application No.: GZCR2409001120AT
Applicant: Comba Telecom Network Systems Limited
Address of Applicant: Flat/Rm 10, 3/F, Bio-Informatics Ctr, 2 Science Park West Avenue, HK Science Park, Pak Shek Kok, N.T. Hong Kong
Manufacturer: Comba Network Systems Company Limited
Address of Manufacturer: No. 10 Shenzhou Road, Guangzhou Science City, Guangzhou 510663, Guangdong, P.R.China
Factory: Comba Telecom Technology (Guangzhou) Ltd.
Address of Factory: No. 6 Jinbi Road, Economics and Technology Development District, Guangzhou, Guangdong, China
Product Name: Public Safety UHF and VHF Dualband Bi-Directional Amplifier
Model No.: RX14V3-B
Trade Mark: Comba
Standard(s) : 47 CFR Part 2
47 CFR Part 20
47 CFR Part 90
Date of Receipt: 2024-09-23
Date of Test: 2024-09-25 to 2024-11-12
Date of Issue: 2024-11-22

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Jerry Chan
Manager



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Revision Record			
Version	Chapter	Date	Remark
01	GZCR240900112001	2024-11-22	Original

Authorized for issue by:			
		Kevin Zhang	
		Kevin Zhang /Project Engineer	
		Ricky Liu	
		Ricky Liu /Reviewer	



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2 Test Summary

Item	Standard	Method	Requirement	Result
Out-of-band rejection	KDB935210 D05 v01r04	KDB935210 D05 v01r04 clause 4.3	KDB935210 D05 v01r04 clause 4.3	Pass
Input-versus-output signal comparison	47 CFR Part 2	KDB935210 D05 v01r04 clause 4.4	Part 2.1049	Pass
Input/output output power and amplifier/booster gain	47 CFR Part 90	KDB935210 D05 v01r04 clause 4.5	Part 90.205(d) Part 90.205(h) Part 90.279(a) Part 90.307 Part 90.309 Part 90.219(e)(1)	Pass*
Emission Masks		KDB935210 D05 v01r04 clause 4.4	Part 90.210	Pass
Noise Figure		KDB935210 D05 v01r04 clause 4.6	Part 90.219(e)(2)	Pass
Intermodulation emissions		KDB935210 D05 v01r04 clause 4.7	Part 90.219(d)(6)	Pass
Conducted spurious emissions		KDB935210 D05 v01r04 clause 4.7	Part 90.219(e)(3)	Pass
Noise		KDB935210 D05 v01r04 clause 4.7	Part 90.219(d)(6)	Pass
Frequency stability		47 CFR Part 2.1055 KDB935210 D05 v01r04 clause 4.8 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 90.219(d)(6)	Pass

*: According to KDB 935210 D02 Signal Booster Certification v04r03 clause V.J for device support output power higher than 5W ERP limit of Section 90.219(e)(1), the specific station authorizations are required the conditions.

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:	100-240V AC, 50/60Hz	
Test Voltage:	120V AC	
Cable:	Power supply cable (4m, shielded)	
Operating Temperature:	-40 to +55 °C	
Operating Humidity:	≤95%	
Frequency Range:	VHF	Uplink: 150.05-173.4MHz Downlink: 150.05-173.4MHz
	UHF-1	Uplink: 406.1-420MHz Downlink: 406.1-420MHz
	UHF-2	Uplink: 421-430MHz Downlink: 421-430MHz
	UHF-3	Uplink: 450-512MHz Downlink: 450-512MHz
Class Type:	Class B signal booster	
Normal Output Power:	VHF	Uplink: 30dBm Downlink: 30dBm
	UHF	Uplink: 33dBm Downlink: 36dBm
Maximum Gain:	VHF	Uplink: 95dB Downlink: 95dB
	UHF	Uplink: 95dB Downlink: 95dB
Supported Modulation:	FM, P25 Phase 1, P25 Phase 2, TETRA, DMR	
Antenna Type:	External Dedicated Antenna	
Permission Antenna Gain:	0dBi or less (declared by the manufacturer)	
Software Version:	RX14_A0AV01.00	
Hardware Version:	RX14V3	
Series No.:	A1	
Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.		



4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	Lenovo Xiaoxinchao 5000	PF0TNMG8
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 120
TLVL	-30	AC 102
TLVH	-30	AC 138
THVL	+50	AC 102
THVH	+50	AC 138

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%

Remark:

The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty) or U_{ETSI} (ETSI Uncertainty).

Emission decision rule:

- Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.
- Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.



4.5 Test Signals

Test Signal	Occupied Bandwidth	Channel Bandwidth
CW	/	/
FM	4kHz	6.25kHz
DMR	7.6kHz	12.5kHz
P25 Phase 1 C4FM	8.1kHz	12.5kHz
P25 Phase 2 H-DQPSK	9.8kHz	12.5kHz
TETRA	21kHz	25kHz

4.6 Test Channels

VHF (DL/UL)					
Test Channel	Centre Frequency (MHz)				
	FM	DMR	P25 Phase 1	P25 Phase 2	TETRA
LCH	150.0575	150.0575	150.0575	150.0575	150.0575
MCH	161.7225	161.7225	161.7225	161.7225	161.7225
HCH	173.3925	173.3925	173.3925	173.3925	173.3925

UHF-1 (DL/UL)					
Test Channel	Centre Frequency (MHz)				
	FM	DMR	P25 Phase 1	P25 Phase 2	TETRA
LCH	406.10625	406.10625	406.10625	406.10625	406.10625
MCH	413.05000	413.05000	413.05000	413.05000	413.05000
HCH	419.99375	419.99375	419.99375	419.99375	419.99375

UHF-2 (DL/UL)					
Test Channel	Centre Frequency (MHz)				
	FM	DMR	P25 Phase 1	P25 Phase 2	TETRA
LCH	421.00625	421.00625	421.00625	421.00625	421.00625
MCH	425.50000	425.50000	425.50000	425.50000	425.50000
HCH	429.99375	429.99375	429.99375	429.99375	429.99375



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UHF-3 (DL/UL)					
Test Channel	Centre Frequency (MHz)				
	FM	DMR	P25 Phase 1	P25 Phase 2	TETRA
LCH	450.00625	450.00625	450.00625	450.00625	450.00625
MCH	481.00000	481.00000	481.00000	481.00000	481.00000
HCH	511.99375	511.99375	511.99375	511.99375	511.99375

LCH: Lowest Channel

MCH: Middle Channel

HCH: Highest Channel

DL: Downlink Path

UL: Uplink Path

4.7 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.



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4.8 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.

4.9 Deviation from Standards

None

4.10 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	2024-06-17	2025-06-16
MI CABLE	SGS-EMC	0.8M	EMC2137	2023-11-02	2025-11-01
MI CABLE	SGS-EMC	0.8M	EMC2136	2023-11-02	2025-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18
MXA Signal Analyzer (10Hz-50GHz)	KEYSIGHT	N9020B	SEM004-24	2024-03-16	2025-03-15
4X4 Power Sensor Unit	TST	TSPS2023R	EMC2257	2024-08-19	2025-08-18
ESG vector signal generator (250kHz-6GHz)	Agilent Technologies	E4438C	SEM006-03	2024-02-19	2025-02-18

Radiated test equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2023-11-10	2024-11-09
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2024-10-14	2025-10-13
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2024-08-19	2025-08-18
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2023-12-15	2024-12-14
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
Chamber Cable (Below 1GHz)	Scoflex	KMKM-8.0m	EMC0546	2024-08-19	2026-08-18
Trilog Broadband Antenna (25MHz-1GHz)	SCHWARZBECK	VULB 9160	EMC2025	2022-09-07	2025-09-06
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	2024-07-09	2026-07-08
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-23	2026-12-22
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



6 Radio Spectrum Matter Test Results

6.1 Out-of-band rejection

Test Requirement: KDB935210 D05 v01r04 clause 4.3

Test Method: KDB935210 D05 v01r04 clause 4.3

Limit: Within the passband

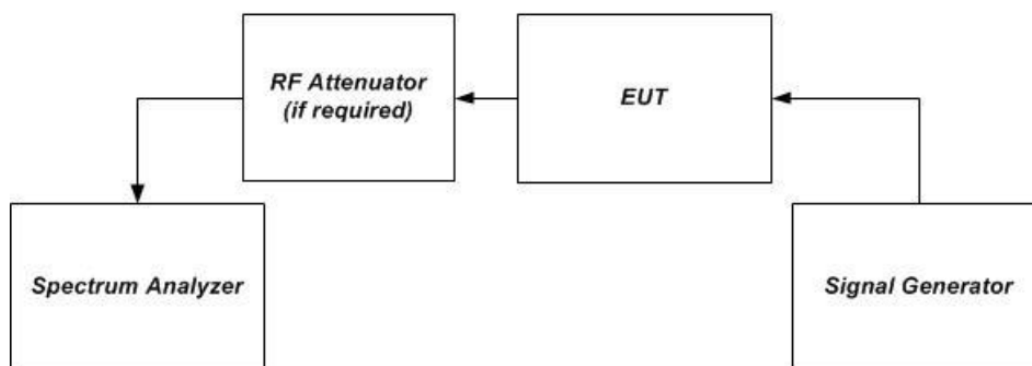
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22~26 °C Humidity: 45~60 % 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 GZCR240900112001.



6.2 Input-versus-output signal comparison

Test Requirement: Part 2.1049

Test Method: KDB935210 D05 v01r04 clause 4.4

Limit: There is no change in the occupied bandwidth of the retransmitted signals

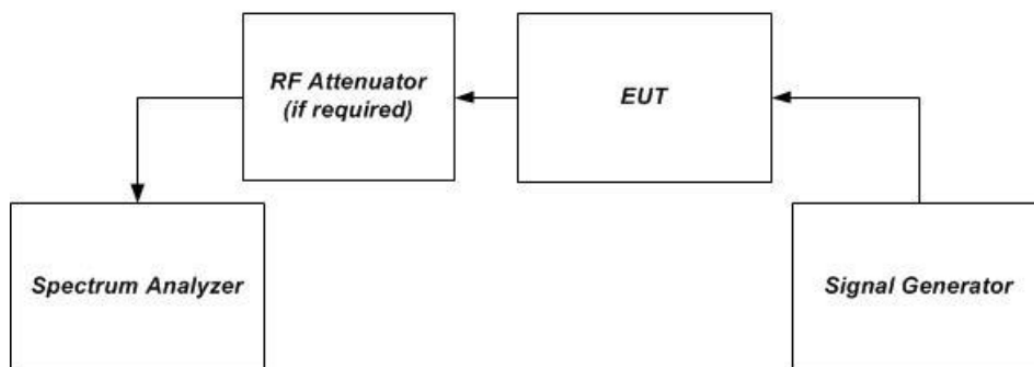
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22~26 °C Humidity: 45~60 % 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 GZCR240900112001.



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6.3 Input/output power and amplifier/booster gain

Test Requirement: Part 90.205(d), 90.205(h), 90.279(a), 90.307, 90.309, 90.219(e)(1)

Test Method: KDB935210 D05 v01r04 clause 4.5

Limit:

1. The ERP limit is 5W specified in 90.219(e)(1).
2. The ERP limit is 500W for 150-174MHz specified in 90.205(d).
3. The ERP limit is 250W for 421-430MHz specified in 90.279(a)
4. The ERP limit is 500W for 450-470MHz specified in 90.205(h)
5. The ERP limit is 1000W for 470-512MHz specified in 90.205(i) & 90.307, 90.309

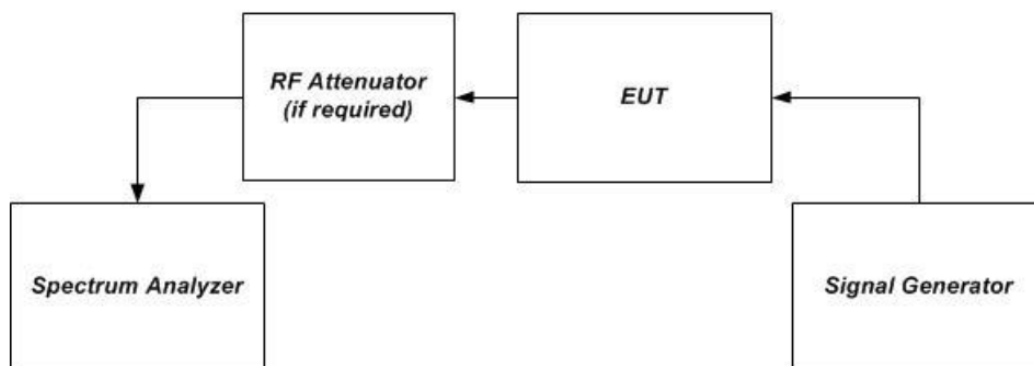
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22~26 °C Humidity: 45~60 % 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 GZCR240900112001.



6.4 Emission Masks

Test Requirement: Part 90.210

Test Method: KDB935210 D05 v01r04 clause 4.4

Limit:

Mask B for TETRA

For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:

- 1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.
- 2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.
- 3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least $43 + 10 \log (P)$ dB.

Mask D for DMR, P25 Phase 1, P25 Phase 2

For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

- 1) On any frequency from the center of the authorized bandwidth f_0 to 5.625 kHz removed from f_0 : Zero dB.
- 2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 5.625 kHz but no more than 12.5 kHz: At least $7.27(f_d - 2.88 \text{ kHz})$ dB.
- 3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5 kHz: At least $50 + 10 \log (P)$ dB or 70 dB, whichever is the lesser attenuation.
- 4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide (usually two or three times the channel bandwidth) to capture the true peak emission of the equipment under test. In order to show compliance with the emission mask up to and including 50 kHz removed from the edge of the authorized bandwidth, adjust the resolution bandwidth to 100 Hz with the measuring instrument in a peak hold mode. A sufficient number of sweeps must be measured to insure that the emission profile is developed. If video filtering is used, its bandwidth must not be less than the instrument resolution bandwidth. For emissions beyond 50 kHz from the edge of the authorized bandwidth, see paragraph (o) of this section. If it can be shown that use of the above instrumentation settings do not accurately represent the true interference potential of the equipment under test, an alternate procedure may be used provided prior Commission approval is obtained.

Mask E for FM

For transmitters designed to operate with a 6.25 kHz or less bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:



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- 1) On any frequency from the center of the authorized bandwidth f_0 to 3.0 kHz removed from f_0 : Zero dB.
- 2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 3.0 kHz but no more than 4.6 kHz: At least $30 + 16.67(f_d - 3 \text{ kHz})$ or $55 + 10 \log(P)$ or 65 dB, whichever is the lesser attenuation.
- 3) On any frequency removed from the center of the authorized bandwidth by more than 4.6 kHz: At least $55 + 10 \log(P)$ or 65 dB, whichever is the lesser attenuation.
- 4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide (usually two or three times the channel bandwidth) to capture the true peak emission of the equipment under test. In order to show compliance with the emission mask up to and including 50 kHz removed from the edge of the authorized bandwidth, adjust the resolution bandwidth to 100 Hz with the measuring instrument in a peak hold mode. A sufficient number of sweeps must be measured to insure that the emission profile is developed. If video filtering is used, its bandwidth must not be less than the instrument resolution bandwidth. For emissions beyond 50 kHz from the edge of the authorized bandwidth, see paragraph (o) of this section. If it can be shown that use of the above instrumentation settings do not accurately represent the true interference potential of the equipment under test, an alternate procedure may be used provided prior Commission approval is obtained.

Remark: The EUT is equipped with an audio low-pass filter declared by the manufacturer.

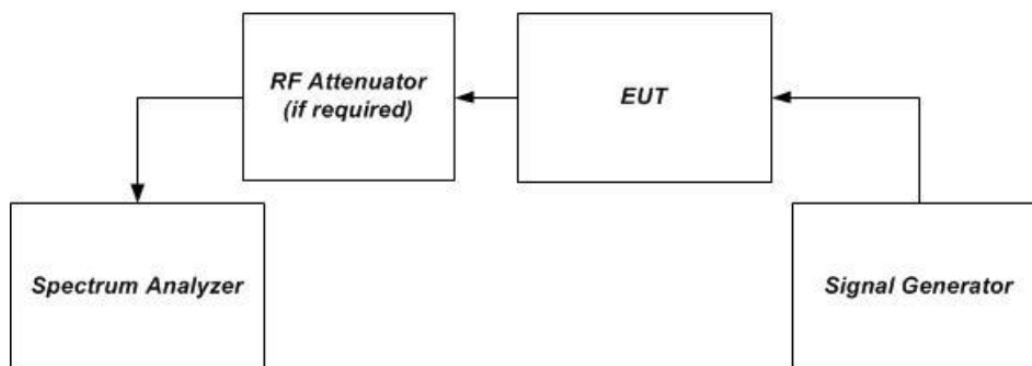
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22~26 °C Humidity: 45~60 % 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 GZCR240900112001.



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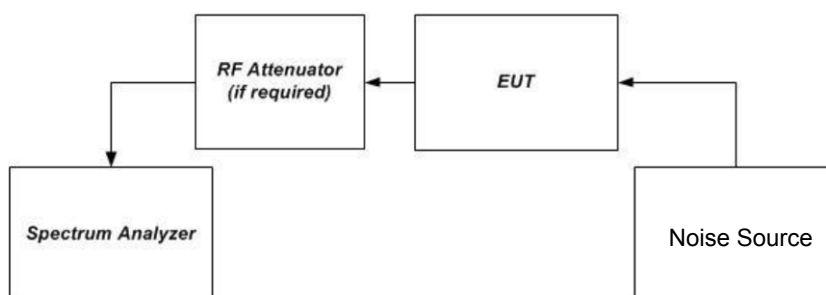
6.5 Noise Figure

Test Requirement: Part 90.219(e)(2)
 Test Method: KDB935210 D05 v01r04 clause 4.6
 Limit: The noise figure of a signal shall not exceed 9dB in either direction.

6.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 22~26 °C Humidity: 45~60 % 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 GZCR240900112001.



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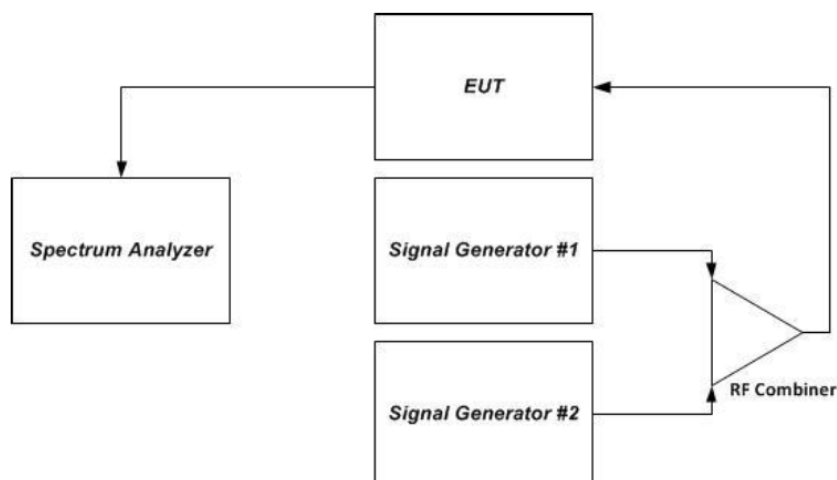
6.6 Intermodulation

Test Requirement: Part 90.219(d)(6)
 Test Method: KDB935210 D05 v01r04 clause 4.7
 Limit: The ERP of intermodulation products should not exceed -30dBm in a 10kHz measurement bandwidth.

6.6.1 E.U.T. Operation

Operating Environment:
 Temperature: 22~26 °C Humidity: 45~60 % 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 GZCR240900112001.



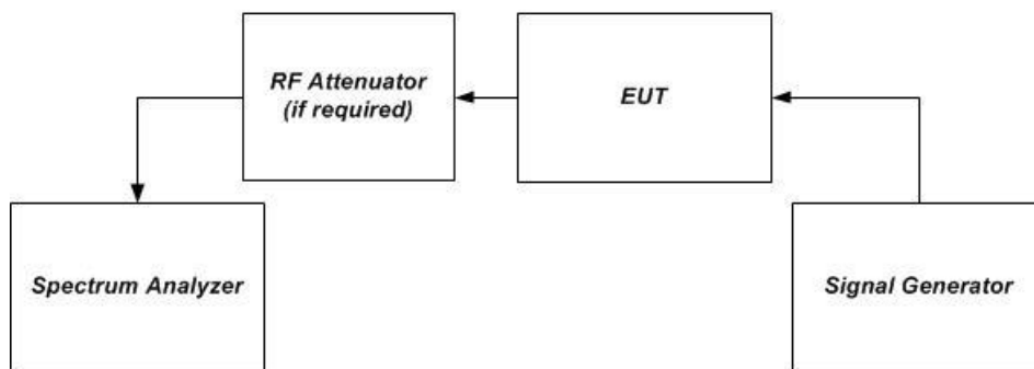
6.7 Conducted Spurious emissions

Test Requirement: Part 90.219(e)(3)
 Test Method: KDB935210 D05 v01r04 clause 4.7
 Limit: Spurious emissions from a signal booster must not exceed -13 dBm within any 100 kHz measurement bandwidth.

6.7.1 E.U.T. Operation

Operating Environment:
 Temperature: 22~26 °C Humidity: 45~60 % RH Atmospheric Pressure: 1010 mbar
 EUT Operation: Drive the EUT to the maximum output power at maximum gain.

6.7.2 Test Setup



6.7.3 Measurement Record

Please refer to Appendix - Test Data and Result for report GZCR240900112001.



6.8 Noise

Test Requirement: Part 90.219(d)(6)

Test Method: KDB935210 D05 v01r04 clause 4.7

Limit:

1. The ERP of noise within the passband should not exceed -43dBm in a 10kHz measurement bandwidth.
2. The ERP of noise in spectrum more than 1MHz outside of the passband should not exceed -70dBm in a 10kHz measurement bandwidth.

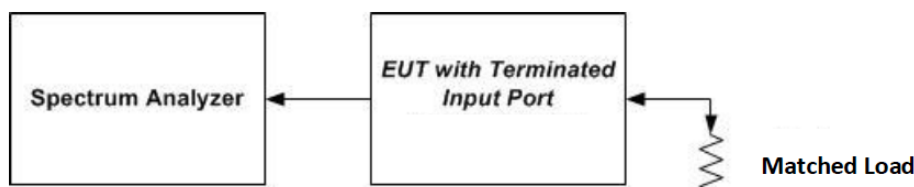
6.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22~26 °C Humidity: 45~60 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Set the EUT at maximum gain.

6.8.2 Test Setup



6.8.3 Measurement Record

Please refer to Appendix - Test Data and Result for report GZCR240900112001.



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6.9 Frequency Stability

Test Requirement: Part 90.213

Test Method: Part 2.1055
KDB935210 D05 v01r04 clause 4.8
ANSI C63.26-2015 Clause 5.6

Limit: Paging transmitters operating on paging-only frequencies must operate with frequency stability of 5 ppm in the 150-174 MHz band and 2.5 ppm in the 421-512 MHz band. 【For EUT 5ppm for VHF band; 2.5ppm for UHF band 】

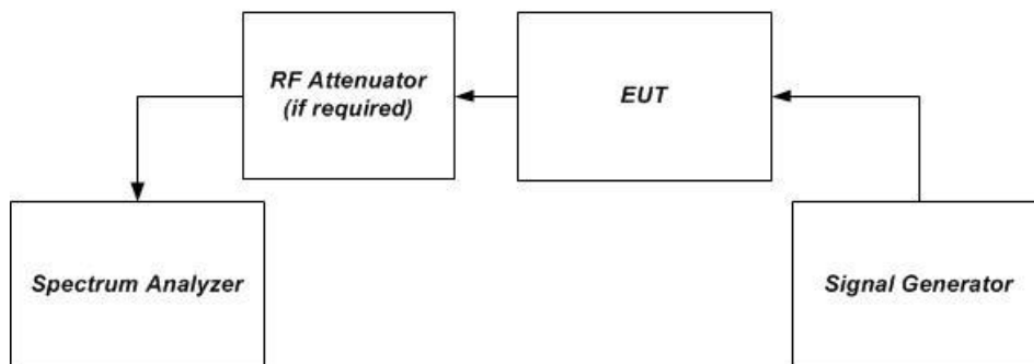
6.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22~26 °C Humidity: 45~60 % RH Atmospheric Pressure: 1010 mbar

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

6.9.2 Test Setup



6.9.3 Measurement Record

Please refer to Appendix - Test Data and Result for report GZCR240900112001.



6.10 Radiated Spurious emissions

Test Requirement: Part 90.219(e)(3)

Test Method: KDB935210 D05 v01r04 clause 4.9
ANSI C63.26-2015 Clause 5.5

Limit: Spurious emissions from a signal booster must not exceed -13 dBm within any 100 kHz measurement bandwidth.

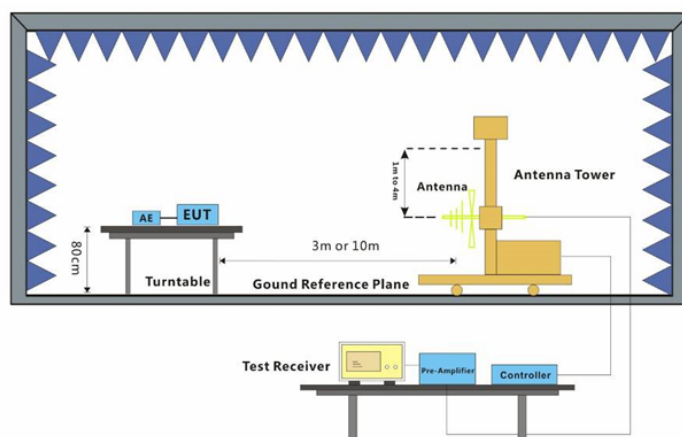
6.10.1 E.U.T. Operation

Operating Environment:

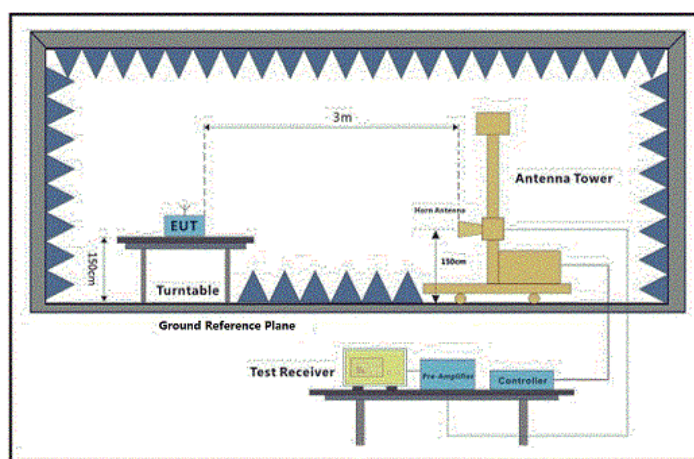
Temperature: 24.4 °C Humidity: 63 % RH Atmospheric Pressure: 1020 mbar

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

6.10.2 Test Setup



30MHz-1GHz



Above 1GHz



6.10.3 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)

6.10.4 Measurement Record

Please refer to Appendix - Test Data and Result for report GZCR240900112001.



7 Test Setup Photographs

Refer to Appendix - Test Setup Photos for GZCR2409001120AT.

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for G ZCR2409001120AT.

- End of the Report -



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