

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2508001193AT
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 Telecom Technology (Guangzhou) Ltd.
Address of Manufacturer: No. 6 Jinbi Road, Economics and Technology Development District, Guangzhou, Guangdong, China
Product Name: High Power Remote Unit-700/850/1900/2100 with AC PSU
 High Power Remote Unit-700/850/1900/2100 with DC PSU
Model No.: HRU-7851719-AC, HRU-7851719-DC ♣
 ♣ Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.
Trade Mark: Comba
Standard(s) : 47 CFR Part 2.1091
 47 CFR Part 1.1310, Part 1.1307
Date of Receipt: 2025-04-14
Date of Evaluation: 2025-06-13
Date of Issue: 2025-06-23

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



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Revision Record			
Version	Report No.	Date	Remark
01	GZCR250800119308	2025-09-10	Original

Authorized for issue by:			
		Kevin Zhang	
		Kevin Zhang/Project Engineer	
Approved By		Vico Cui	
		Vico Cui/Reviewer	



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2 Evaluation Summary

Radio Spectrum Technical Requirement				
Item	Standard	Requirement	Method	Result
RF Exposure	47 CFR Part 2.1091 47 CFR Part 1.1310 47 CFR Part 1.1307	47 CFR Part 1.1310	47 CFR Part 1.1310	PASS

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.

♣ Declaration of EUT Family Grouping:

Model No.: HRU-7851719-AC, HRU-7851719-DC

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on model No. and power supply module. Therefore, only HRU-7851719-AC was evaluated in this report.



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4 General Information

4.1 Details of E.U.T.

Power Supply:	AC 100-240V, 50-60Hz for HRU-7851719-AC DC -48V for HRU-7851719-DC	
Cable:	AC mains (4m, unshielded) for HRU-7851719-AC DC cable (4m, unshielded) for HRU-7851719-DC	
Operating Temperature:	-20 to +55 °C	
Operating Humidity:	≤95%	
Frequency Range:	Lower & Upper 700MHz	Uplink: 698-716MHz (Lower); 776-788MHz (Upper) Downlink: 728-758MHz
	FirstNet	Uplink: 788-798MHz Downlink: 758-768MHz
	ESMR	Uplink: 817-824MHz Downlink: 862-869MHz
	Cellular	Uplink: 824-849MHz Downlink: 869-894MHz
	Broadband PCS	Uplink: 1850-1915MHz Downlink: 1930-1995MHz
	AWS-2	Uplink: 1915-1920MHz Downlink: 1995-2000MHz
	EAWS	Uplink: 1695-1780MHz Downlink: 2110-2200MHz
Support Technology:	LTE	
	5G NR	
EUT MIMO property:	1T1R	
Interface:	Antenna Port	4 (4.3-10 Female)
	Optical Port	1 (SC-APC)
	OMT Port	1 (RJ-45)
Normal Output Power: (per antenna port, only downlink)	Lower & Upper 700MHz	43dBm
	FirstNet	43dBm
	ESMR	43dBm
	Cellular	43dBm
	Broadband PCS	46dBm
	AWS-2	46dBm
	EAWS	46dBm



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Normal System Gain: (only downlink)	Lower & Upper 700MHz	53dB
	FirstNet	53dB
	ESMR	53dB
	Cellular	53dB
	Broadband PCS	56dB
	AWS-2	56dB
	EAWS	56dB
Antenna Type:	External Dedicated Antenna	
Permission Antenna Gain:	5dBi or less	
Software Version:	V01.00.00.04	
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.		



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4.2 Evaluated Location

All evaluation 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,
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4.3 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.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



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5 Radio Spectrum Technical Requirement

5.1 RF Exposure

5.1.1 Requirement

In accordance with 47 CFR FCC Part 2.1091, this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

According to 47 CFR FCC Part 1310, the criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in Part1.1307(b).

TABLE 1 TO §1.1310(E)(1)—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density



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5.1.2 Method

According to IEEE C95.3:2002 section 5.5.1.1, the power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula:

$$S = \frac{PG}{4\pi d^2}$$

S = power density (mW/cm²)
 P = the net power delivered to the antenna (mW)
 G = gain of the antenna in linear scale
 d = distance between observation point and center of the radiator (cm)

From the maximum EUT RF output power, as well as the gain of the used antenna, according to the RF power density limit stated in above table, the minimum distance between the antenna and human body will be calculated.

5.1.3 Conclusion

For Lower & Upper 700MHz Band DL

1. According to the test report GZCR250800119302, the tested maximum conducted power was within the tune up power range (43±2dBm) and the maximum tune up power was utilized as worst case for RF exposure evaluation.
2. According to the declaration from the applicant, the permitted maximum antenna gain is 5dBi.
3. The maximum tune up tolerance power is 45dBm= 31.7W.
4. The limit of Power Density (S) (mW/cm²)= $f/1500 = 0.485\text{mW/cm}^2$ ($f=728\text{MHz}$ for worst-case).

Maximum Antenna Gain (Numeric)	Max. tune up tolerance power (W)	Limit of Power Density (S_{limit1}) (W/m ²)	Power Density (S_1) (W/m ²)
3.162	31.7	4.85	$7.99/d^2$

For FirstNet Band DL

1. According to the test report GZCR250800119303, the tested maximum conducted power was within the tune up power range (43±2dBm) and the maximum tune up power was utilized as worst case for RF exposure evaluation.
2. According to the declaration from the applicant, the permitted maximum antenna gain is 5dBi.
3. The maximum tune up tolerance power is 45dBm= 31.7W.
4. The limit of Power Density (S) (mW/cm²)= $f/1500 = 0.505\text{mW/cm}^2$ ($f=758\text{MHz}$ for worst-case).

Maximum Antenna Gain (Numeric)	Max. tune up tolerance power (W)	Limit of Power Density (S_{limit2}) (W/m ²)	Power Density (S_2) (W/m ²)
3.162	31.7	5.05	$7.99/d^2$



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For ESMR Band DL

1. According to the the test report GZCR250800119304, the tested maximum conducted power was within the tune up power range (43±2dBm) and the maximum tune up power was utilized as worst case for RF exposure evaluation.
2. According to the declaration from the applicant, the permitted maximum antenna gain is 5dBi.
3. The maximum tune up tolerance power is 45dBm= 31.7W.
4. The limit of Power Density (S) (mW/cm²)= f/1500= 0.574mW/cm² (f=862MHz for worst-case).

Maximum Antenna Gain (Numeric)	Max. tune up tolerance power (W)	Limit of Power Density (S _{limit3}) (W/m ²)	Power Density (S ₃) (W/m ²)
3.162	31.7	5.74	7.99/d ²

For Cellular Band DL

1. According to the the test report GZCR250800119305, the tested maximum conducted power was within the tune up power range (43±2dBm) and the maximum tune up power was utilized as worst case for RF exposure evaluation.
2. According to the declaration from the applicant, the permitted maximum antenna gain is 5dBi.
3. The maximum tune up tolerance power is 45dBm= 31.7W.
4. The limit of Power Density (S) (mW/cm²)= f/1500= 0.579mW/cm² (f=869MHz for worst-case).

Maximum Antenna Gain (Numeric)	Max. tune up tolerance power (W)	Limit of Power Density (S _{limit4}) (W/m ²)	Power Density (S ₄) (W/m ²)
3.162	31.7	5.79	7.99/d ²

For Broadband PCS Band DL

1. According to the the test report GZCR250800119306, the tested maximum conducted power was within the tune up power range (46±2dBm) and the maximum tune up power was utilized as worst case for RF exposure evaluation.
2. According to the declaration from the applicant, the permitted maximum antenna gain is 5dBi.
3. The maximum tune up tolerance power is 48dBm= 63.1W.
4. The limit of Power Density (S) (mW/cm²)= 1.0mW/cm².

Maximum Antenna Gain (Numeric)	Max. tune up tolerance power (W)	Limit of Power Density (S _{limit5}) (W/m ²)	Power Density (S ₅) (W/m ²)
3.162	63.1	10.0	15.9/d ²



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For AWS-2 & AWS-4 Band DL

1. According to the the test report GZCR250800119307, the tested maximum conducted power was within the tune up power range ($46\pm 2\text{dBm}$) and the maximum tune up power was utilized as worst case for RF exposure evaluation.
2. According to the declaration from the applicant, the permitted maximum antenna gain is 5dBi.
3. The maximum tune up tolerance power is $48\text{dBm} = 63.1\text{W}$.
4. The limit of Power Density (S) (mW/cm^2) = $1.0\text{mW}/\text{cm}^2$.

Maximum Antenna Gain (Numeric)	Max. tune up tolerance power (W)	Limit of Power Density (S_{limit6}) (W/m^2)	Power Density (S_6) (W/m^2)
3.162	63.1	10.0	$15.9/\text{d}^2$

For EAWS Band DL

1. According to the the test report GZCR250800119307, the tested maximum conducted power was within the tune up power range ($46\pm 2\text{dBm}$) and the maximum tune up power was utilized as worst case for RF exposure evaluation.
2. According to the declaration from the applicant, the permitted maximum antenna gain is 5dBi.
3. The maximum tune up tolerance power is $48\text{dBm} = 63.1\text{W}$.
4. The limit of Power Density (S) (mW/cm^2) = $1.0\text{mW}/\text{cm}^2$.

Maximum Antenna Gain (Numeric)	Max. tune up tolerance power (W)	Limit of Power Density (S_{limit7}) (W/m^2)	Power Density (S_7) (W/m^2)
3.162	63.1	10.0	$15.9/\text{d}^2$

For multiple simultaneous transmission sources, the calculated Power Density should comply with:

$$(S_1/S_{\text{limit1}}) + (S_2/S_{\text{limit2}}) + (S_3/S_{\text{limit3}}) + (S_4/S_{\text{limit4}}) + (S_5/S_{\text{limit5}}) + (S_6/S_{\text{limit6}}) + (S_7/S_{\text{limit7}}) \leq 1$$

$$(1.65/\text{d}^2) + (1.59/\text{d}^2) + (1.40/\text{d}^2) + (1.38/\text{d}^2) + (1.59/\text{d}^2) + (1.59/\text{d}^2) + (1.59/\text{d}^2) \leq 1$$

$$\text{d} \geq 3.3$$

So the permitted use distance away from EUT external antenna (service antenna) is larger than 3.3 m.



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5.2 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2508001193AT.

- End of the Report -



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