

EMC-TRF-03 Rev 1.1

Report No.: GZCR230300022408 Page: 1 of 11 FCC ID: PX8CFNG-MU

RF EXPOSURE EVALUATION REPORT

Application No.:	GZCR2303000224AT
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
Equipment Under Test (EUT):
EUT Name:	Comflex NG
Model No.:	Comflex NG MU
Trade Mark:	Comba
Standard(s) :	47 CFR Part 2.1091 47 CFR Part 1.1310, Part 1.1307
Date of Receipt:	2023-03-02
Date of Evaluation:	2023-04-17
Date of Issue:	2023-04-28
Test Result:	Pass*

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

Ridge Lin

Ricky Liu Manager



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Revision Record				
Version	Chapter	Date	Modifier Remark	
01	GZCR230300022408	2023-04-28	Original	

Authorized for issue by:		
	Kevin zhang	
	Kevin Zhang /Project Engineer	
	Jerry Chen	
	Jerry Chan /Reviewer	



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2 Evaluation Summary

Radio Spectrum Technical Requirement

ltem	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



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4 General Information

4.1 Details of E.U.T.

Power Supply: Test Voltage: Cable: Operating Temperature: Operating Humidity:	AC 100-240V, 50/60Hz AC 110V AC mains (2m, unshielded) -40 to +55 °C ≤95%		
Frequency Range:	Lower 700MHz:	Uplink: 698-716MHz Downlink: 728-746MHz	
	Upper 700MHz:	Uplink: 777-787MHz Downlink: 746-756MHz	
	Cellular:	Uplink: 824-849MHz Downlink: 869-894MHz	
	EAWS:	Uplink: 1710-1755MHz Downlink: 2110-2180MHz	
	Broadband PCS:	Uplink: 1850-1915MHz Downlink: 1930-1995MHz	
	BRS/EBS:	Uplink: 2496-2690MHz Downlink: 2496-2690MHz	
	3.7GHz service*:	Uplink: 3700-3980MHz Downlink: 3700-3980MHz	
Support Technology:	LTE 5G NR		
Modulation Type:	PSK/QPSK/QAM/	16QAM/64QAM/256QAM	
Interface:	BDA Card Port	4.3-10-Female	
	POI Card port	4.3-10-Female	
	Debug Port	RJ-45	
Normal Output Power:	Lower 700MHz:	19dBm	
(per antenna port, uplink, BDA card)	Upper 700MHz:	19dBm	
BDA Calu)	Cellular:	19dBm	
	EAWS:	19dBm	
	Broadband PCS:	19dBm	
	BRS/EBS:	22dBm	
Normal System Gain: EUT Configuration:	uplink & downlink: 1T1R	80dB (BDA card)	



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Antenna Type:External Dedicated AntennaPermission Antenna Gain:14dBi or less (declared by the manufacturer)Software Version:ChassisOAMV0100.01

Note:

*: 3.7GHz service band can only operate on POI card, which connects directly to a base station via coaxial cable but cannot connect to antenna and/or amplifier.

4.2 Evaluated Location

All evaluation 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

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.



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- 4.4 Deviation from Standards None
- 4.5 Abnormalities from Standard Conditions



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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).

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
	(I) Limits for Occu	pational/Controlle	a ⊏xposure	
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

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

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 = power density (mW/cm²)
PG	P = the net power delivered to the antenna (mW)
$S = \frac{1}{4\pi d^2}$	G = gain of the antenna in linear scale
4πα-	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 toe the RF power density limit stated in above table, the mimimum distance between the antenna and human body will be calculated.

5.1.3 Conclusion

For Lower 700MHz band (698-716MHz, uplink)

1. According to the the test report GZCR230300022402, the tested maximum conducted power was within the tune up power range (≤21dBm) and the maximum tune up power was utilized as worst case for RF exposure evaluation.

2. According to the declaration from the applicant, the permission maximum antenna gain is 14dBi. 3. The limit for Power Density (S)(mW/cm2) = f/1500= (f is the lowest operation frequency for the strictest limit, 698MHz).

Maximum Antenna	Max. total tune up tolerance power (mW)	Limit of Power Density	Minimum Distance
Gain (Numeric)		(S) (mW/cm ²)	to human body (cm)
25.119	125.9	0.46	24

For Upper 700MHz band (777-787MHz, uplink)

1. According to the the test report GZCR230300022403, the tested maximum conducted power was within the tune up power range (<21dBm) and the maximum tune up power was utilized as worst case for RF exposure evaluation.

2. According to the declaration from the applicant, the permission maximum antenna gain is 5dBi. 3. The limit for Power Density (S)(mW/cm2) = f/1500 = (f is the lowest operation frequency for the strictest limit. 777MHz).

Maximum Antenna Gain (Numeric)	Max. total tune up tolerance power (mW)	Limit of Power Density (S) (mW/cm ²)	Minimum Distance to human body (cm)		
25.119	125.9	0.51	23		



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For Cellular band (824-849MHz, uplink)

1. According to the the test report GZCR230300022404, the tested maximum conducted power was within the tune up power range (≤21dBm) and the maximum tune up power was utilized as worst case for RF exposure evaluation.

2. According to the declaration from the applicant, the permission maximum antenna gain is 5dBi. 3. The limit for Power Density (S)(mW/cm2) = f/1500 = (f is the lowest operation frequency for the strictest limit, 824MHz).

Maximum Antenna	Max. total tune up	Limit of Power Density	Minimum Distance
Gain (Numeric)	tolerance power (mW)	(S) (mW/cm ²)	to human body (cm)
25.119	125.9	0.54	

For EAWS band (1710-1755MHz, uplink)

1. According to the the test report GZCR230300022405, the tested maximum conducted power was within the tune up power range (≤21dBm) and the maximum tune up power was utilized as worst case for RF exposure evaluation.

2. According to the declaration from the applicant, the permission maximum antenna gain is 14dBi.

Maximum Antenna Gain (Numeric)	Max. total tune up tolerance power (mW)	Limit of Power Density (S) (mW/cm ²)	Minimum Distance to human body (cm)
25.119	125.9	1	16

For Broadband PCS band (1850-1915MHz, uplink)

1. According to the the test report GZCR230300022406, the tested maximum conducted power was within the tune up power range (≤21dBm) and the maximum tune up power was utilized as worst case for RF exposure evaluation.

2. According to the declaration from the applicant, the permission maximum antenna gain is 14dBi.

Maximum Antenna	Max. total tune up tolerance power (mW)	Limit of Power Density	Minimum Distance
Gain (Numeric)		(S) (mW/cm ²)	to human body (cm)
25.119	125.9	1	16

For BRS/EBS band (2496-2690MHz, uplink)

1. According to the the test report GZCR230300022407, the tested maximum conducted power was within the tune up power range (≤24dBm) and the maximum tune up power was utilized as worst case for RF exposure evaluation.

2. According to the declaration from the applicant, the permission maximum antenna gain is 14dBi.

Maximum Antenna	Max. total tune up tolerance power (mW)	Limit of Power Density	Minimum Distance
Gain (Numeric)		(S) (mW/cm ²)	to human body (cm)
25.119	251.2	1	23

So the recommend use distance away from EUT external antenna is larger than 24cm.



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5.2 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2303000224AT.

- End of the Report -



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