

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2303000223AT
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.: ARU-6B-Internal
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: 2023-04-17

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



Ricky Liu
Manager



Revision Record			
Version	Chapter	Date	Modifier Remark
01	GZCR230300022309	2023-04-17	Original

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



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4 General Information

4.1 Details of E.U.T.

Power Supply:	DC 48V														
Test Voltage:	DC 48V														
Operating Temperature:	-40 to +55 °C														
Operating Humidity:	≤95%														
Frequency Range:	<table border="0"> <tr> <td>Lower 700MHz:</td> <td>Uplink: 698-716MHz Downlink: 728-746MHz</td> </tr> <tr> <td>Upper 700MHz:</td> <td>Uplink: 777-787MHz Downlink: 746-756MHz</td> </tr> <tr> <td>Cellular:</td> <td>Uplink: 824-849MHz Downlink: 869-894MHz</td> </tr> <tr> <td>EAWS:</td> <td>Uplink: 1710-1755MHz Downlink: 2110-2180MHz</td> </tr> <tr> <td>Broadband PCS:</td> <td>Uplink: 1850-1915MHz Downlink: 1930-1995MHz</td> </tr> <tr> <td>BRS/EBS:</td> <td>Uplink: 2496-2690MHz Downlink: 2496-2690MHz</td> </tr> <tr> <td>3.7GHz service:</td> <td>Uplink: 3700-3980MHz Downlink: 3700-3980MHz</td> </tr> </table>	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
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3.7GHz service:	Uplink: 3700-3980MHz Downlink: 3700-3980MHz														
Support Technology:	LTE 5G NR														
Modulation Type:	PSK/QPSK/QAM/16QAM/64QAM/256QAM														
Interface:	Input Port N-Female Debug Port Type-c														
Normal Output Power: (per antenna port, downlink)	<table border="0"> <tr> <td>Lower 700MHz:</td> <td>19dBm</td> </tr> <tr> <td>Upper 700MHz:</td> <td>19dBm</td> </tr> <tr> <td>Cellular:</td> <td>19dBm</td> </tr> <tr> <td>EAWS:</td> <td>19dBm</td> </tr> <tr> <td>Broadband PCS:</td> <td>19dBm</td> </tr> <tr> <td>BRS/EBS:</td> <td>22dBm</td> </tr> <tr> <td>3.7GHz service:</td> <td>22dBm</td> </tr> </table>	Lower 700MHz:	19dBm	Upper 700MHz:	19dBm	Cellular:	19dBm	EAWS:	19dBm	Broadband PCS:	19dBm	BRS/EBS:	22dBm	3.7GHz service:	22dBm
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Cellular:	19dBm														
EAWS:	19dBm														
Broadband PCS:	19dBm														
BRS/EBS:	22dBm														
3.7GHz service:	22dBm														
Normal System Gain:	uplink & downlink: 80dB														
EUT Configuration:	1T1R														
Antenna Type:	Internal Antenna														



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Antenna Gain: Lower 700MHz: 4dBi
 (declared by the manufacturer) Upper 700MHz: 4dBi
 Cellular: 4dBi
 EAWS: 4dBi
 Broadband PCS: 4dBi
 BRS/EBS: 5dBi
 3.7GHz Service: 3dBi
 Software Version: ARUFGAV0100.01

4.2 Evaluated Location

All evaluation 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

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

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 700MHz band (728-746MHz, downlink)

1. According to the the test report GZCR230300022302, 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, normal use condition for Distance between antenna and body is 20cm and the maximum antenna gain is 4dBi.
3. The limit for Power Density (S)(mW/cm²) = f/1500= (f is the lowest operation frequency for the strictest limit, 728MHz).

Maximum Antenna Gain (Numeric)	Max. total tune up tolerance power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Verdict
2.512	125.9	0.06291	0.48	PASS

For Upper 700MHz band (746-756MHz, downlink)

1. According to the the test report GZCR230300022303, 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, normal use condition for Distance between antenna and body is 20cm and the maximum antenna gain is 4dBi.
3. The limit for Power Density (S)(mW/cm²) = f/1500= (f is the lowest operation frequency for the strictest limit, 746MHz).

Maximum Antenna Gain (Numeric)	Max. total tune up tolerance power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Verdict
2.512	125.9	0.06291	0.49	PASS



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For Cellular band (869-894MHz, downlink)

1. According to the the test report GZCR230300022304, the tested maximum conducted power was within the tune up power range ($\leq 21\text{dBm}$) and the maximum tune up power was utilized as worst case for RF exposure evaluation.
2. According to the declaration from the applicant, normal use condition for Distance between antenna and body is 20cm and the maximum antenna gain is 4dBi.
3. The limit for Power Density (S)(mW/cm^2) = $f/1500$ = (f is the lowest operation frequency for the strictest limit, 869MHz).

Maximum Antenna Gain (Numeric)	Max. total tune up tolerance power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Verdict
2.512	125.9	0.06291	0.57	PASS

For EAWS band (2110-2180MHz, downlink)

1. According to the the test report GZCR230300022305, the tested maximum conducted power was within the tune up power range ($\leq 21\text{dBm}$) and the maximum tune up power was utilized as worst case for RF exposure evaluation.
2. According to the declaration from the applicant, normal use condition for Distance between antenna and body is 20cm and the maximum antenna gain is 4dBi.

Maximum Antenna Gain (Numeric)	Max. total tune up tolerance power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Verdict
2.512	125.9	0.06291	1	PASS

For Broadband PCS band (1930-1995MHz, downlink)

1. According to the the test report GZCR230300022306, the tested maximum conducted power was within the tune up power range ($\leq 21\text{dBm}$) and the maximum tune up power was utilized as worst case for RF exposure evaluation.
2. According to the declaration from the applicant, normal use condition for Distance between antenna and body is 20cm and the maximum antenna gain is 4dBi.

Maximum Antenna Gain (Numeric)	Max. total tune up tolerance power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Verdict
2.512	125.9	0.06291	1	PASS



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

1. According to the the test report GZCR230300022307, the tested maximum conducted power was within the tune up power range ($\leq 24\text{dBm}$) and the maximum tune up power was utilized as worst case for RF exposure evaluation.
2. According to the declaration from the applicant, normal use condition for Distance between antenna and body is 20cm and the maximum antenna gain is 5dBi.

Maximum Antenna Gain (Numeric)	Max. total tune up tolerance power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Verdict
3.162	251.2	0.15802	1	PASS

For 3.7GHz Service band (3700-3980MHz, downlink)

1. According to the the test report GZCR230300022308, the tested maximum conducted power was within the tune up power range ($\leq 24\text{dBm}$) and the maximum tune up power was utilized as worst case for RF exposure evaluation.
2. According to the declaration from the applicant, normal use condition for Distance between antenna and body is 20cm and the maximum antenna gain is 3dBi.

Maximum Antenna Gain (Numeric)	Max. total tune up tolerance power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Verdict
1.995	251.2	0.09971	1	PASS



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5.2 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2303000223AT.

- End of the Report -



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