

Report No.: GZCR210300001303

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FCC ID: OJFDHRU-DHPAM-7

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2103000013AT

Applicant: Corning Optical Communication Wireless

Address of Applicant: 8253 1st AveVienna, 22182, Virginia, United States

Manufacturer: Comba Network Systems Company Limited

Address of Manufacturer: No.10 Shenzhou Road, Guangzhou Science City, Guangzhou, Guangdong

Factory: Comba Telecom Technology (Guangzhou) Ltd.

Address of Factory: No.6 Jinbi Road, Economics and Technology Development District,

Guangdong, China

Equipment Under Test (EUT):

EUT Name: HRU Digital High Power Amplifier Module supporting 700

Model No.: dHRU-dHPAM-7

Trade Mark: Corning

Standard(s): 47 CFR Part 2.1091

47 CFR Part 1.1310, Part 1.1307

 Date of Receipt:
 2021-03-09

 Date of Evaluation:
 2021-04-09

 Date of Issue:
 2021-04-12

Test Result: Pass*

Kobe Jian EMC Laboratory 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 Modifier Remark					
01		2021-04-12		Original	

Authorized for issue by:		
Evaluated By	Kevin zhang	2021-04-09
	Kevin_Zhang /Project Engineer	Date
Checked By	Riday Liu	2021-04-12
	Ricky Liu/Reviewer	Date

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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: Test Voltage:	AC 100-240V, 50/ AC 100V, 60Hz	60Hz via ODU			
Cable:	AC mains (unshiel	lded, 1.5m)			
Operating Temperature:	-40 to +55 ℃				
Operating Humidity:	5 to 95 %				
Frequency Range:	Lower 700MHz	Uplink:	698N	//Hz to 716MHz	
		Downlink:	728N	/IHz to 746MHz	
	Upper 700MHz	Uplink:	776N	MHz to 787MHz	
		Downlink:	746N	MHz to 757MHz	
	FirstNet	Uplink:	788N	MHz to 798MHz	
		Downlink:	758N	MHz to 768MHz	
Radio System Type:	☐ GSM				
	☐ WCDMA				
Interface:	RF Port:	2 (4.3-10)-Femal	e, ANT1~ANT2)	
	Optical Port:	1 (SFP+)		
Supported Channel	GSM	☐ 200 k	κHz		
Bandwidth:	WCDMA	☐ 5MHz	Z		
	LTE	☐ 1.4 N	1Hz	☐ 3 MHz	⊠ 5 MHz
		⊠ 10 M	Hz		☐ 20 MHz
	5G NR			☑ 10 MHz	⊠ 15 MHz
		☐ 20 M	HZ		

Band Lower 700MHz

Upper 700MHz

FirstNet



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Technology

4G/5G

4G/5G

4G/5G

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Supported Bandwidth

5/10/15MHz

5/10MHz

5/10MHz



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EUT MIMO property: 2X2 MIMO

System Gain: Max. 43dB (Downlink)

Antenna Type: External Dedicated Antenna

Permission Antenna Gain: 12.5dBi or less Software Version: V01.00.00.04

Note: The EUT is a remote unit of a fiber DAS. The fiber DAS are typically

comprised of three components (host unit, fiber-optic expansion unit and

remote unit), which will be interconnected via fiber-optic.

The host unit connects directly to a base station via coaxial cable but cannot connect to antenna for receiving downlink and transmitting uplink, the EUT connects to antenna for transmitting downlink and receiving

uplink.

Therefore, only performed the test for downlink.



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4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 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



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4.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

• 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.

• CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

• FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

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, Jul 13, 2017.

Industry Canada (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-10449 and T-11179)

The 10m Semi-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-10449 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 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.5 Deviation from Standards

None

4.6 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/cm²)	Averaging time (minutes)
	(i) Limits for	Occupational/Contr	olled Exposure	
3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f²)	<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 Ger	neral Population/Und	ontrolled Exposure	
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30
1,500-100,000	Hz. * = Plane-wave equi	valent 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:

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

 $S = power density (mW/cm^2)$

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 toe the RF power density limit stated in above table, the mimimum distance between the antenna and human body will be calculated.



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5.1.3 Conclusion

For Lower & Upper 700MHz (only for downlink: 717-757MHz)

- 1. According to the test report GZCR210300001302, the tested maximum conducted power for 2x2 MIMO is 43.34dBm + 43.34dBm = 43.16W = 43160mW.
- 2. According to the declaration from the applicant, the permitted maximum antenna gain is 12.5dBi.
- 3. The limit of Power Density $(S)(mW/cm^2) = f/1500 = 0.5047mW/cm^2$ (Here, f is the highest operation frequency for worst-case, 757MHz)

Maximum Antenna	Total conducted	Limit of Power	Minimum Distance to
Gain	power	Density (S)	human body
(Numeric)	(mW)	(mW/cm²)	(cm)
17.78	43160	0.5047	

For FirstNet (only for downlink: 758-768MHz)

- 1. According to the test report GZCR210300001302, the tested maximum conducted power for 2x2 MIMO is 43.16dBm + 43.16dBm = 41.4W = 41400mW.
- 2. According to the declaration from the applicant, the permitted maximum antenna gain is 12.5dBi.
- 3. The limit of Power Density $(S)(mW/cm^2) = f/1500 = 0.5047mW/cm^2$ (Here, f is the highest operation frequency for worst-case, 768MHz)

Maximum Antenna Gain (Numeric)	Total conducted power (mW)	Limit of Power Density (S) (mW/cm²)	Minimum Distance to human body (cm)
17.78	43160	0.5120	339

So the recommend use distance away from EUT ecternal antenna is larger than 3.48m for MIMO transmission.



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5.2 EUT Constructional Details

Please refer to Appendix A – EUT Construction Details of GZCR2103000013AT for detail.

--Report End--



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