

Report No.: GZCR210802080405 Page: 1 of 12 FCC ID: 2AOHHEB5

RF EXPOSURE EVALUATION REPORT

Test Result:	Pass*			
Date of Issue:	2021-08-26			
Date of Evaluation:	2021-08-02 to 2021-08-13			
Date of Receipt:	2021-08-02			
Standard(s) :	47 CFR Part 1.1310, 47 CFR Part 1.1307			
	47 CER Part 2 1091			
Loi Nalle.	EB5			
Equipment Under Test (EUT)	: EB5 Edge Al Box			
	Province, China.			
Address of Factory:	No. 41 Gangjian Road, Changping Town, Dongguan City, Guangdong			
Factory:	ZEGNA DAIDONG LIMITED CORPORATION			
Address of Manufacturer:	Building 4, No. 99, Middle Road, Xiantao Data, Yubei District, Chongqing			
Manufacturer:	Chongqing, China. Thundercomm Technology Co.,Ltd			
Applicant: Address of Applicant:	Thundercomm Technology Co.,Ltd Building 4, No. 99, Data Valley Middle Road, Xiantao District, Yubei District,			
Application No.:	GZCR2108020804AT			

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

Kobe Jian EMC Laboratory Manager



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Report No.: GZCR210802080405 Page: 2 of 12

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-08-26		Original

Authorized for issue by		
	City knong	
	Lily Kuang/Project Engineer	
	Ridey Lin	
	Ricky Liu/Reviewer	



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Report No.: GZCR210802080405 Page: 3 of 12

2 Evaluation Summary

Radio Spectrum Technical Requirement			
	Itom	Standard	Poquiromont

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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Report No.: GZCR210802080405 Page: 4 of 12

3 Contents

1	Covers Page	1
2	Evaluation Summary	3
3	Contents	4
4	General Information	5
4.	1 Details of E.U.T.	5
4.	2 Description of Support Units	6
4.	3 Test Location	6
4.	.4 Test Facility	7
4.	5 Deviation from Standards	8
4.	.6 Abnormalities from Standard Conditions	8
5	Radio Spectrum Technical Requirement	9
5.	1 RF Exposure	9
	5.1.1 Requirement	9
	5.1.2 Method	10
	5.1.3 Conclusion	11
5.	2 EUT Constructional Details	12



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Report No.: GZCR210802080405 Page: 5 of 12

4 General Information

4.1 Details of E.U.T.

Power supply:	Adapter
	Model: HKA09019047-6U
	Input: AC 100-240V, 50/60Hz, 1.5A
	Output: DC 19.0V, 4.74A, 90.06W
Test voltage:	AC 120V, 60Hz or AC 240V, 50Hz
	Note: Both nominal AC 120V, 60Hz and AC 240 V, 50Hz are required for
	testing in accordance with FCC KDB174176, this report only shows the
	results of the worst test result(AC 120V, 60Hz);
Cable(s):	DC cable:145cm with a ferrite core
	AC cable:137cm unshielded
Internal source:	More than 108MHz
2.4G WiFi	
Type of Modulation:	802.11b: DSSS (CCK, DQPSK, DBPSK)
	802.11g: OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11n (HT20/HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ax(HT20 and HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Operating Frequency:	802.11b/g/n/ax(HT20): 2412MHz to 2462MHz
	802.11n/ax(HT40): 2422MHz to 2452MHz
Channel Number:	802.11b/g/11n/ax(HT20): 11 Channels
	802.11n/ax(HT40): 7 Channels
Channels Step:	Channels with 5MHz step
Sample Type:	Fixed devices
Antenna Type:	Monopole antenna
Antenna Gain:	Antenna1/Antenna2: 3.46dBi
	Note: Two antennas can simultaneous transmission.

5G WiFi

Operation Frequency:

Band	Mode	Frequency	Number of
		Range(MHz)	channels
UNII Band I	802.11a/n/ax(HT20)	5180-5240	4
	802.11n/ax(HT40)	5190-5230	2
	802.11ac/ax(HT80)	5210	1
UNII Band II-A	802.11a/n/ax(HT20)	5260-5320	4
	802.11n/ax(HT40)	5270-5310	2



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Report No.: GZCR210802080405

Page: 6 of 12

		802.11ac/ax(HT80)	5290	1
	UNII Band II-C	802.11a/n/ax(HT20)	5500-5700	11
		802.11n/ax(HT40)	5510-5670	5
		802.11ac/ax(HT80)	5530-5610	2
	UNII Band III	802.11a/n/ax(HT20)	5745-5825	5
		802.11n/ax(HT40)	5755-5795	2
		802.11ac/ax(HT80)	5775	1
Modulation Type:	802.11a: OFDM	(BPSK, QPSK, 16QAM, 64QAM	M)	
	802.11n: OFDM	(BPSK, QPSK, 16QAM, 64QAM	/ I)	
	802.11ac: OFDM	I (256QAM, 64QAM,16QAM, Q	PSK, BPSK)	
	802.11ax: OFDM	I (1024QAM, 256QAM, 64QAM	,16QAM, QPSK, BF	PSK)
DFS Function:	Slave without rad	lar detection		
TPC Function:	Not support			
Antenna Type:	Monopole Antenna			
Antenna Gain:	Antenna1: 2.4dBi. Antenna2: 2.4dBi			
	Note: MIMO for 8	302.11n/ac/ax.		

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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Report No.: GZCR210802080405

Page: 7 of 12

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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Report No.: GZCR210802080405 Page: 8 of 12

4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None



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Report No.: GZCR210802080405 Page: 9 of 12

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	Occupational/Contro	olled 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 Ger	eral Population/Unc	ontrolled 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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Report No.: GZCR210802080405 Page: 10 of 12

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 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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Report No.: GZCR210802080405 Page: 11 of 12

5.1.3 Conclusion

For 2.4G WiFi

1. According to the test report GZCR210802080402, the tested maximum conducted power for $2x^2$ MIMO is 20.92dBm = 0.12359W = 123.59mW.

2. According to the declaration from the applicant, the permitted maximum antenna gain is 3.46dBi for single antenna, the Directional gain is 6.47dBi.

3. The limit of Power Density (S)(mW/cm²) = 1mW/cm²

Maximum Antenna	Total conducted	Limit of Power	Power Density at
Gain	power	Density (S)	R=20cm
(Numeric)	(mW)	(mW/cm²)	(mW/cm²)
4.44	123.59	1	0.1091

For 5G WiFi

1. According to the test report GZCR210802080403, the tested maximum conducted power for 2x2 MIMO is 18.99dBm =0.07925W = 79.25mW.

- 2. According to the declaration from the applicant, the permitted maximum antenna gain is 2.4dBi for single antenna, the Directional gain is 5.41dBi.
- 3. The limit of Power Density $(S)(mW/cm^2) = 1mW/cm^2$

Maximum Antenna	Total conducted	Limit of Power	Power Density at
Gain	power	Density (S)	R=20cm
(Numeric)	(mW)	(mW/cm²)	(mW/cm²)
3.48	79.25	1	0.0548

Note: the 2.4G WLAN antenna and 5G WLAN antenna cannot synchronous transmission at the same time.



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Report No.: GZCR210802080405 Page: 12 of 12

5.2 EUT Constructional Details

Refer to Appendix - external and internal photos for GZCR2108020804AT.

- End of the Report -



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