

GUANGDONG HAILEA GROUP CO., LTD. MPE ASSESSMENT REPORT

Report Type:

FCC MPE assessment report

Model:

ASRC-L

REPORT NUMBER:

191002150SHA-002

ISSUE DATE:

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DOCUMENT CONTROL NUMBER:

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Report no.: 191002150SHA-002

Applicant: GUANGDONG HAILEA GROUP CO., LTD.

HAILEA INDUSTRIE ZONE, HAILEA ROAD, RAOPING GUANGDONG

PROVINCE, 515700 CHINA

Manufacturer: GUANGDONG HAILEA GROUP CO., LTD.

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PROVINCE, 515700 CHINA

Manufacturing site: GUANGDONG HAILEA GROUP CO., LTD.

HAILEA INDUSTRIE ZONE, HAILEA ROAD, RAOPING GUANGDONG

PROVINCE, 515700 CHINA

FCC ID: 2AVM6ASRC-L

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v06 FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

PREPARED BY:	REVIEWED BY:

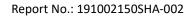
Project Engineer

Eric Li

Reviewer Daniel Zhao

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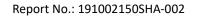
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Revision History

Report No.	Version	Description	Issued Date	
191002150SHA-002	Rev. 01	Initial issue of report	February 25, 2020	





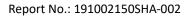
1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Wifi smart plug
Type/Model:	ASRC-L
	EUT is wifi smart plug, which supports wifi function, there is one model.
Description of EUT:	We test it and list the worst results in this report.
Rating:	120V 60Hz Max Current: 10A
Category of EUT:	Class B
EUT type:	☐ Table top ☐ Floor standing
Software Version:	/
Hardware Version:	/
Sample received date:	2019.12.15
Date of test:	2019.12.16~2019.12.20

1.2 Technical Specification

Frequency Range:	2400MHz ~ 2483.5MHz		
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20, IEEE 802.11n-HT40		
	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)		
	IEEE 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK)		
	IEEE 802.11n-HT20: OFDM (64-QAM, 16-QAM, QPSK, BPSK)		
Type of Modulation:	IEEE 802.11n-HT40: OFDM (64-QAM, 16-QAM, QPSK, BPSK)		
	11 Channels for 802.11b, 802.11g and 802.11n(HT20)		
Channel Number:	7 Channels for 802.11n(HT40)		
	IEEE 802.11b: Up to 11 Mbps		
	IEEE 802.11g: Up to 54 Mbps		
	IEEE 802.11n-HT20: Up to MCS7		
Data Rate:	IEEE 802.11n-HT40: Up to MCS7		
Channel Separation:	5 MHz		

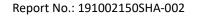




1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is	CNAS Accreditation Lab	
recognized,	Registration No. CNAS L0139	
certified, or	FCC Accredited Lab	
accredited by these	Designation Number: CN1175	
organizations:	- Company of the Comp	
	IC Registration Lab	
	Registration code No.: 2042B-1	
	VCCI Registration Lab	
	Registration No.: R-4243, G-845, C-4723, T-2252	
	A2LA Accreditation Lab	
	Certificate Number: 3309.02	





2 MPE Assessment

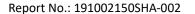
Test result: Pass

2.1 MPE Assessment Limit

Mobile device exposure for standalone operations:

Woolie device expe	saic for stariation	e operations.		
Frequency range	E-field strength	H-field strength	B-field	Equivalent plane wave
	(V/m)	(A/m)	(uT)	power density
				S _{eq} (W/m²)
0-1 Hz	-	$3,2 \times 10^4$	4×10^{4}	-
1-8 Hz	10 000	$3.2 \times 10^4/f^2$	$4 \times 10^4/f^2$	-
8-25 Hz	10 000	4 000/f	5 000/f	-
0,025-0,8 kHz	250/f	4/f	5/f	-
0,8-3 kHz	250/f	5	6,25	-
3-150 kHz	87	5	6,25	-
0,15-1 MHz	87	0,73/f	0,92/f	-
1-10 MHz	87/f ^{1/2}	0,73/f	0,92/f	-
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	1,375 f ^{1/2}	0,0037 f ^{1/2}	0,0046 f ^{1/2}	f/200
2-300 GHz	61	0,16	0,20	10

Mobile device exposure for simultaneous transmission operations: the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is \leq 1.0





TEST REPORT

2.2 Assessment Results

Power density (S) is calculated according to the formula:

 $S = P / (4\pi R^2)$

Where $S = power density in mW/cm^2$

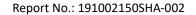
P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report 191002150SHA-001: The maximum radiated power = 6.09dBm = 4.06 mW; Here R is chosen to be 20cm,

 $S = P / (4\pi R^2) = 4.06 / (4 * 3.14 * 20 * 20) = 0.0008 \text{ mW/cm}^2 < 1 \text{ mW/cm}^2$





Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.