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FCC/IC Test Report

Report No. :	CQSZ20180500203EW-03			
Applicant:	Hangzhou Great Star Industrial Co., Ltd.			
Address of Applicant:	No.35, Jiuhuan Road, Jiubao Town, Jianggan District, Hangzhou 310019, China			
Address of Manufacturer:	No.35, Jiuhuan Road, Jiubao Town, Jianggan District, Hangzhou 310019, China			
Equipment Under Test (EU Product: Model No.: Brand Name:	JT): Iris Wi-Fi smart Hub IH300 IHSS			
FCC ID: IC ID:	2AMI2IH300 22853-IH300			
Standards:	47 CFR Part 15, Subpart C RSS-210 Issue 9 August 2016 RSS-Gen Issue 5 Nov 2018			
Date of Test:	2018-05-20 to 2018-06-25			
Date of Issue:	2018-06-25			
Test Result :	PASS*			
Tested By:	(Aaron Ma) DURA ZHOU			

M N Zwa

Reviewed By:

)wen Zhou)



Approved By:

(Jack Ai)

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

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.



2 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQSZ20180500203EW-03	Rev.01	Initial report	2018-06-25



3 Test Summary

Test Item	Test Requirement	Test method	Result	
	47 CFR Part 15, Subpart C Section		PASS	
Antenna Requirement	15.203,	ANSI C63.10 (2013)		
	RSS-Gen Issue 5			
	47 CFR Part 15, Subpart C Section			
AC Power Line	15.207,	ANSI C63.10 (2013)	PASS	
Conducted Emission	RSS-Gen Issue 5			
Field Otres with a fithe	47 CFR Part 15, Subpart C Section			
Field Strength of the	15.249 (a), ANSI C63.10 (2013)		PASS	
Fundamental Signal	RSS-Gen Issue 5			
	47 CFR Part 15, Subpart C Section		PASS	
Spurious Emissions	15.249 (a)/15.209,	ANSI C63.10 (2013)		
	RSS-Gen Issue 5			
Restricted bands	47 CFR Part 15, Subpart C Section			
around fundamental	15.249(a)/15.205,	ANSI C63.10 (2013)	PASS	
Emission)	RSS-Gen Issue 5	RSS-Gen Issue 5		
20dB Occupied	47 CFR Part 15, Subpart C Section	CFR Part 15, Subpart C Section		
Bandwidth	15.215 (c) ,	ANSI C63.10 (2013)	PASS	
99% Occupied Bandwidth	RSS-Gen Issue 5	RSS-Gen Issue 5	PASS	



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5 General Information

5.1 Client Information

Applicant:	Hangzhou Great Star Industrial Co., Ltd.	
Address of Applicant:	No.35, Jiuhuan Road, Jiubao Town, Jianggan District, Hangzhou 310019, China	
Manufacturer:	Hangzhou Great Star Industrial Co., Ltd.	
Address of Manufacturer:	No.35, Jiuhuan Road, Jiubao Town, Jianggan District, Hangzhou 310019, China	

5.2 General Description of EUT

Name:	Iris Wi-Fi smart Hub
Model No.:	IH300
Trade Mark :	iris
Hardware Version:	IH300-003V-IMX-D-iMagic
Software Version:	Linux iMagic 4.1.15-HW
Frequency Range:	908.4MHz ~ 916MHz
Modulation Type:	FSK
Number of Channels:	3
Sample Type:	Mobile production
Test Software of EUT:	Secure CRT (manufacturer declare)
Antenna Type:	Integral antenna
Antenna Gain:	2.0dBi
Power Supply:	Adapter:
	Model:RD1201500-C55-81MG
	Input:100-240V~50/60Hz 0.6A
	Output:DC12V 1.5A
	Battery:
	ICR18650
	2600mAh, 3.7V



Operation Frequency each of channel							
Channel Frequency Channel Frequency Channel Frequency Channel Frequency						Frequency	
1	908.4MHz	2	908.42 MHz	3	916MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 1 MHz and less than 10MHz, the Lowest frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel	908.4MHz
The Middle channel	908.42MHz
The Highest channel	916MHz



5.3 Test Environment and Mode

Operating Environment:			
Temperature:	24.0 °C		
Humidity:	52 % RH		
Atmospheric Pressure:	1008 mbar		
Test Mode:	Use test software (Secure CRT) to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.		

5.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
PC	Lenovo	ThinkPad E450c	Provide by lab	ID
AC/DC Adapter	Lenovo	PA-1450-55LN	Provide by lab	DOC

5.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Test	Range	Uncertainty	Notes
Radiated Emission	Below 1GHz	±5.12dB	(1)
Radiated Emission	Above 1GHz	±4.60dB	(1)
Conducted Disturbance	0.15~30MHz	±3.34dB	(1)

Hereafter the best measurement capability for **CQA** laboratory is reported:

(1)This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



5.6 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

5.7 Test Facility

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

CNAS (No. CNAS L5785)

CNAS has accredited Shenzhen Huaxia Testing Technology Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• ISED Registration No.: 22984-1

The 3m Semi-anechoic chamber of Shenzhen Huaxia Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

• A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen 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 No.:522263

5.8 Deviation from Standards

None.

5.9 Abnormalities from Standard Conditions

None.

5.10 Other Information Requested by the Customer

None.



5.11 Equipment List

ltem	Test Equipment	Manufacturer	Model No	Instrument	Calibration
				No.	Due Date
1	EMI Test Receiver	R&S	ESR7	CQA-005	2018/9/24
2	Spectrum analyzer	R&S	FSU26	CQA-038	2018/9/24
	Description		AFS4-00010300-	004.005	0040/0/04
3	Preamplifier	MITEQ	18-10P-4	CQA-035	2018/9/24
			AMF-6D-02001800-	004.000	0040/0/04
4	Preamplifier	MITEQ	29-20P	CQA-036	2018/9/24
5	Loop antenna	ZHINAN	ZN30900A	CQA-087	2019/3/21
6	Bilog Antenna	R&S	HL562	CQA-011	2018/9/24
7	Horn Antenna	R&S	HF906	CQA-012	2018/9/24
8	Horn Antenna	R&S	BBHA 9170	CQA-088	2018/9/24
0	Coax cable	004		004.077	204.0/0/24
9	(9KHz~40GHz)	CQA	RE-IOW-UT	CQA-077	2018/9/24
10	Coax cable	004		004.070	0040/0/04
10	(9KHz~40GHz)	CQA	RE-nign-02	CQA-078	2018/9/24
11	Antenna Connector	CQA	RFC-01	CQA-080	2018/9/24
12	RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2018/9/24
13	EMI Test Receiver	R&S	ESPI3	CQA-005	2018/9/24
14	LISN	R&S	ENV216	CQA-003	2018/9/24
	Coaxial cable				0040/40/47
15	(9KHz~300MHz)	CQA	N/A	CQA-C009	2018/10/17
16	Power divider	CQA	PWD-2533-02- SMA-79	CQA-067	2018/9/29



6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203,					
	RSS-Gen Issue 5					
15.203 requirement:						
An intentional radiator shall	be designed to ensure that no antenna other than that furnished by the					
responsible party shall be us	sed with the device. The use of a permanently attached antenna or of an					
antenna that uses a unique	coupling to the intentional radiator, the manufacturer may design the unit					
so that a broken antenna ca	n be replaced by the user, but the use of a standard antenna jack or					
electrical connector is prohit	pited.					
EUT Antenna:	Image: constraint of the antenna is 2.0dBi					
The antenna is integral afte	The best case gain of the antenna is 2.00Dl.					



6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207,						
	RSS-Gen Issue 5						
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	150kHz to 30MHz						
Limit:		Limit (d	lBuV)				
	Frequency range (MHZ)	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the logarithn	n of the frequency.		I			
Test Procedure:	 The mains terminal disturt room. 	bance voltage test was	conducted in a shie	lded			
	2) The EUT was connected to	AC power source thro	ough a LISN 1 (Line	oor			
		elwork) which provides		lear			
	connected to a second LIS	SN 2 which was bonded	to the ground refere	nco			
	plane in the same way as t	the LISN 1 for the unit h	peing measured A	ince			
	multiple socket outlet strip	was used to connect m	nultiple power cables	to a			
	single LISN provided the ra	ating of the LISN was n	ot exceeded.				
	3) The tabletop EUT was place	ced upon a non-metallio	c table 0.8m above th	e			
	ground reference plane. A	nd for floor-standing ar	rangement, the EUT	was			
	placed on the horizontal gr	ound reference plane,					
	4) The test was performed wi	th a vertical ground refe	erence plane. The rea	ar			
	of the EUT shall be 0.4 m	from the vertical ground	d reference plane. Th	е			
	vertical ground reference p	plane was bonded to the	e horizontal ground				
	reference plane. The LISN	1 was placed 0.8 m fro	om the boundary of th	ıe			
	unit under test and bonded	to a ground reference	plane for LISNs				
	mounted on top of the grou	und reference plane. Th	his distance was				
	between the closest points of the LISN 1 and the EUT. All other units of						
	the EUT and associated e	quipment was at least (0.8 m from the LISN 2	<i>_</i> .			
	5) In order to find the maximu	im emission, the relativ	e positions of				
	equipment and all of the in	terrace cables must be	changed according t	.0			
	ANSI C03.10: 2013 ON COP	iducted measurement.					



Test Setup:	Shielding Room Test Receiver Test					
Exploratory Test Mode:	Transmitting with FSK at lowest, middle and highest channel.					
Final Test Mode:	Through Pre-scan, find at lowest channel is the worst case.					
	Only the worst case is recorded in the report.					
Test Voltage:	AC120V/60Hz					
Test Results:	Pass					



Measurement Data



1	0.1500	40.35	9.73	50.08	66.00 -15.92	QP
2	0.1500	23.68	9.73	33.41	56.00 -22.59	AVG
3	0.3540	36.50	9.74	46.24	58.87 -12.63	QP
4 *	0.3540	31.45	9.74	41.19	48.87 -7.68	AVG
5	1.3220	31.11	9.75	40.86	56.00 -15.14	QP
6	1.3220	22.37	9.75	32.12	46.00 -13.88	AVG
7	2.6619	28.13	9.77	37.90	56.00 -18.10	QP
8	2.6619	19.84	9.77	29.61	46.00 -16.39	AVG
9	6.7300	28.45	9.80	38.25	60.00 -21.75	QP
10	6.7300	22.85	9.80	32.65	50.00 -17.35	AVG
11	9.0580	28.48	9.81	38.29	60.00 -21.71	QP
12	9.0580	22.57	9.81	32.38	50.00 -17.62	AVG

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

3. If the Peak value under Average limit, the Average value is not recorded in the report.





Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

3. If the Peak value under Average limit, the Average value is not recorded in the report.



6.3 Radiated Emission

Test Requirement:	47 CFR Part 15C Section 15.249 and 15.209 and 15.205,							
	RSS-Gen Issue 5							
Test Method:	ANSI C63.10: 2013							
Test Site:	Measurement Distance:	3m (Semi-Anecho	ic Chamber)					
Receiver Setup:	Frequency	Detector	RBW	VBW	Re	emark		
	0.009MHz-0.090MHz	Peak	10kHz	30KHz	F	² eak		
	0.009MHz-0.090MHz	Average	10kHz	30KHz	Av	rerage		
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30KHz	Qua	isi-peak		
	0.110MHz-0.490MHz	Peak	10kHz	30KHz	F	Peak		
	0.110MHz-0.490MHz	Average	10kHz	30KHz	Av	rerage		
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Qua	isi-peak		
	30MHz-1GHz	Quasi-peak	100 kHz	300KHz	Qua	isi-peak		
	Above 1GHz	Peak	1MHz	3MHz	F	^v eak		
		Peak	1MHz	10Hz	Av	rerage		
	Note: For fundamental t value, RMS detect	frequency, RBW=5 tor is for Average v	5MHz, VBW= /alue.	₌5MHz, Peak	detec	tor is for PK		
Limit: (Spurious Emissions	Frequency	Field strength (microvolt/meter	Limit (dBuV/m)	Remark	M d	leasurement listance (m)		
and band edge)	0 009MHz-0 490MHz) 2400/E(kHz)				300		
	0.009MHz-0.490MHz	2400/F(kHz)				30		
	1 705MHz-30MHz	30	-	-		30		
	30MHz-88MHz	100	40.0	Quasi-peal	k	3		
	88MHz-216MHz	150	43.5	Quasi-peal	k	3		
	216MHz-960MHz	200	46.0	Quasi-peal	k	3		
	960MHz-1GHz	500	54.0	Quasi-peal	k	3		
	Above 1GHz	500	54.0	Average		3		
	Note: 1) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.							
	2) Emissions rac	liated outside of the	e specified fro	equency bands	s, exc	ept for		
	harmonics, shall	be attenuated by a	t least 50 dB	below the leve	el of th	ne		
	fundamental or to	the general radiat	ted emission	limits in Sectio	on 15.	209,		
	whichever is the l	esser attenuation.						
Limit:	Frequency	Limit (dBuV/	/m @3m)	Remark				
(Field strength of the	902MHz916MHz	94.0)	Average Valu	ue			
fundamental signal)		114.	0	Peak Value				







	was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth
	 with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel, the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
Exploratory Test Mode:	I ransmitting mode
Final Test Mode:	Pretest the EUT at Transmitting mode, Only the worst case is recorded in the report.
Test Voltage:	120V/60Hz
Test Results:	Pass



Measurement Data



Freq (MHz)	Read_Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit_Line (dBuV/m)	Over_Limit (dB)	Remark
30.745	16.45	18.54	34.99	40	-5.01	Peak
216.783	27.26	9.26	36.52	46	-9.48	Peak
348.027	17.62	12.52	30.14	46	-15.86	Peak
902	8.62	18.93	27.55	46	-18.45	Peak
908.4	73.18	19.03	92.21	114	-21.79	Peak
928	9.59	19.35	28.94	46	-17.06	Peak

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor



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Freq (MHz)	Read_Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit_Line (dBuV/m)	Over_Limit (dB)	Remark
312.179	20.49	10.87	31.36	46	-14.64	Peak
338.4	20.91	11.66	32.57	46	-13.43	Peak
444.851	17.99	14.45	32.44	46	-13.56	Peak
902	9.51	18.93	28.44	46	-17.56	Peak
908.4	73.02	19.03	92.05	114	-21.95	Peak
928	10.01	19.35	29.36	46	-16.64	Peak

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor





Freq (MHz)	Read_Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit_Line (dBuV/m)	Over_Limit (dB)	Remark
77.051	20.82	8.97	29.79	40	-10.21	Peak
89.59	20.81	9.69	30.5	43.5	-13	Peak
216.783	26.14	9.26	35.4	46	-10.6	Peak
902	9.36	18.93	28.29	46	-17.71	Peak
908.42	70.63	19.03	89.66	114	-24.34	Peak
928	10.35	19.35	29.7	46	-16.3	Peak

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor







Freq (MHz)	Read_Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit_Line (dBuV/m)	Over_Limit (dB)	Remark
32.293	10.4	18.42	28.82	40	-11.18	Peak
87.112	11.06	9.64	20.7	40	-19.3	Peak
341.979	20.42	11.98	32.4	46	-13.6	Peak
902	9.96	18.93	28.89	46	-17.11	Peak
908.42	71.35	19.03	90.38	114	-23.62	Peak
928	8.43	19.35	27.78	46	-18.22	Peak

Remark:

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The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor



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Freq (MHz)	Read_Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit_Line (dBuV/m)	Over_Limit (dB)	Remark
30.962	14.8	18.52	33.32	40	-6.68	Peak
36.509	15.45	17.14	32.59	40	-7.41	Peak
88.033	19.83	9.66	29.49	43.5	-14.01	Peak
216.783	24.92	9.26	34.18	46	-11.82	Peak
444.851	15.33	14.45	29.78	46	-16.22	Peak
916	73.73	19.16	92.89	114	-21.11	Peak

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor



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Freq (MHz)	Read_Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit_Line (dBuV/m)	Over_Limit (dB)	Remark
319.937	18.36	11.1	29.46	46	-16.54	Peak
444.851	18.32	14.45	32.77	46	-13.23	Peak
661.151	11.54	18.14	29.68	46	-16.32	Peak
902	10.59	18.93	29.52	46	-16.48	Peak
916	72.58	19.16	91.74	114	-22.26	Peak
928	9.8	19.35	29.15	46	-16.85	Peak

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor



























Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 10GHz, The disturbance above 5GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



6.4 20dB Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.215	
Test Method:	ANSI C63.10:2013	
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Mode:	Transmitting with modulation.	
Limit:	N/A	
Test Results:	Pass	

Measurement Data

Test channel	20dB bandwidth (kHz)	Results
Lowest	96.795	Pass
Middle	96.795	Pass
Highest	93.590	Pass











6.1 99% Bandwidth

Test Requirement:	RSS-Gen Issue 5
Test Method:	RSS-Gen Issue 5
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Mode:	Transmitting with modulation.
Limit:	N/A
Test Results:	Pass

Measurement Data

Test channel	99% bandwidth (kHz)	Results
Lowest	91.026	Pass
Middle	86.538	Pass
Highest	89.103	Pass









END OF THE REPORT