

TEST REPORT

Report No.: SHE20080007-02DE

Date: 2020-08-28

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Applicant : Shanghai Xiaoyi Technology Co., Ltd.
: Building 18, Lane 55, Chuanke Road, China (Shanghai)
Address of Applicant : Pilot Free Trade Zone

Product Name : Kami Doorbell Camera
Model No. : YDS.20120
: E20080007-01#01
Sample No. : E20080007-01#02
FCC ID : 2AFIB-YDS20120

Standards : FCC CFR47 Part 15, Subpart E

Date of Receipt : 2020-08-12
Date of Test : 2020-08-16 ~ 2020-08-26
Date of Issue : 2020-08-28

Remark:

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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(Authorized signatory: Guoyou Chi)

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1 General Information

1.1 Testing Laboratory

Company Name	ICAS Testing Technology Services (Shanghai) Co., Ltd.
Address	155 Pingbei Rd, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icasiso.com

1.2 Details of Application

Company Name	Shanghai Xiaoyi Technology Co., Ltd.
Address	Building 18, Lane 55, Chuanke Road, China (Shanghai) Pilot Free Trade Zone
Contact Person	Jackie Han
Telephone	+86-21-61656722
Email	han.guangbao@xiaoyi.com

1.3 Details of EUT

Product Name	Kami Doorbell Camera
Brand Name	Kami
Model No.	YDS.20120
FCC ID	2AFIB-YDS20120
Mode of Operation	WLAN 802.11a/n(HT20)
Frequency Range	Band I: 5150 MHz ~ 5250 MHz Band IV: 5725 MHz ~ 5850 MHz
Modulation Type	256QAM, 64QAM, 16QAM, BPSK, QPSK
Channel Bandwidth	802.11a: 20MHz 802.11n: 20MHz
Antenna Type	FPC Antenna
Antenna Gain	4.18 dBi
Extreme Temperature Range	-10℃~ +40℃
Test Voltage	DC 3.7V
Extreme Voltage	Low Voltage: DC 3.6V High Voltage: DC 4.2V
Product Type	Fixed

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1.4 Test Methodology

47 CFR Part 15, Subpart C (10-1-16 Edition)	Miscellaneous Wireless Communications Services
KDB Publication 789033 D02 v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

Note(s):

All test items were verified and recorded according to the standards and without any addition/deviation/exclusion during the test.

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2 Test Condition

2.1 Environmental conditions

Temperature (°C)	18-25
Humidity (%RH)	40-65
Barometric Pressure (mbar)	960-1060

2.2 Equipment List

Name of Equipment	Manufacturer	Model	Serial No.	Cal. Due Date
Spectrum Analyzer	Keysight	N9020B	MY59260184	2021-08-19
Spectrum Analyzer	Rohde & Schwarz	FSV40N	101450	2021-06-24
EMI Test Receiver	Rohde & Schwarz	ESPI3	100173	2021-06-19
EMI Test Receiver	Rohde & Schwarz	ESR 7	101911	2021-06-19
V-network	SCHWARZBECK	NSLK 8127	8127-902	2021-02-20
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	100687	2021-08-19
Broadband Antenna	SCHWARZBECK	VULB9163	9163-1037	2021-06-06
Horn Antenna-18G	SCHWARZBECK	BBHA9120D	9120D-1775	2021-06-06
Loop Antenna	SCHWARZBECK	FMZB 1513	N/A	2021-03-19
Horn Antenna-40G	YINGLIAN	LB-180400-KF	N/A	2021-07-26
EMC chamber 9*6*6 (L*W*H)	CHANGNING	966	N/A	2021-06-08
Shielded Enclosure 8*5*4 (L*W*H)	CHANGNING	854	N/A	2021-06-08
Test Software	BL	BL410_E	N/A	N/A

2.3 Measurement Uncertainty

Parameter	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	± 1.5 dB
	> 1GHz	± 1.5 dB
Radiated Emission	30 MHz – 1 GHz	± 3 dB
	> 1GHz	± 3 dB

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3 Test Set-up and Operation Modes

3.1 Details of Test Mode

Using test software was control EUT work in continuous transmitter and receiver mode. Select test channel as below:
For 802.11a/n(HT20),

Band I (5150 – 5250 MHz)		Band IV (5725 – 5850 MHz)	
Channel	Frequency	Channel	Frequency
The lowest channel(CH36)	5180MHz	The lowest channel(CH149)	5745MHz
The middle channel(CH44)	5220MHz	The middle channel(CH157)	5785MHz
The highest channel(CH48)	5240MHz	The highest channel(CH165)	5825MHz

Through Pre-scan under all rate at lowest channel, the data rate as below table described is the worst case, so we choose these data rate for test.

Type	Data rate
802.11a	6Mbps
802.11n(HT20)	MCS0

The basic operation modes are:

- A. On
 - 1. WLAN mode
 - a. Transmitting
 - b. Receiving
- B. Standby
- C. Off

3.2 Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	TP00083A	N/A

3.3 Support Software

Description	Manufacturer	Software Name
Software	/	RF Test Tool

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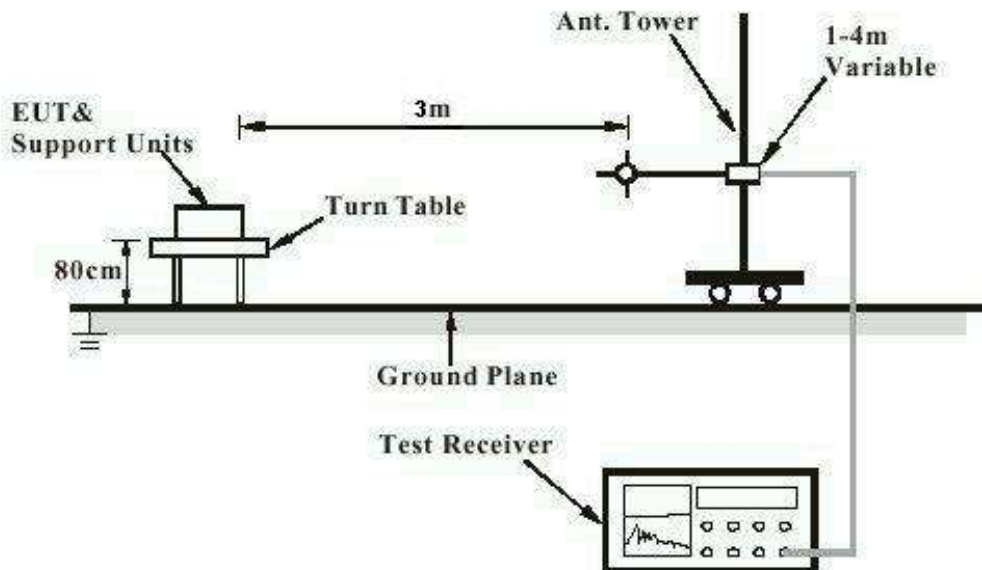
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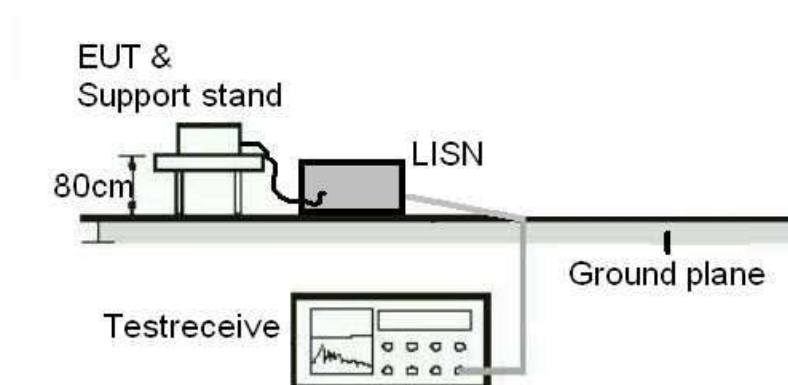
3.4 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



Note: Measurements above 1GHz are done with a table height of 1.5m. In addition, there is RF absorbing material on the floor of the test site for above 1GHz measurement.

Diagram of Measurement Equipment Configuration for Conduction Measurement



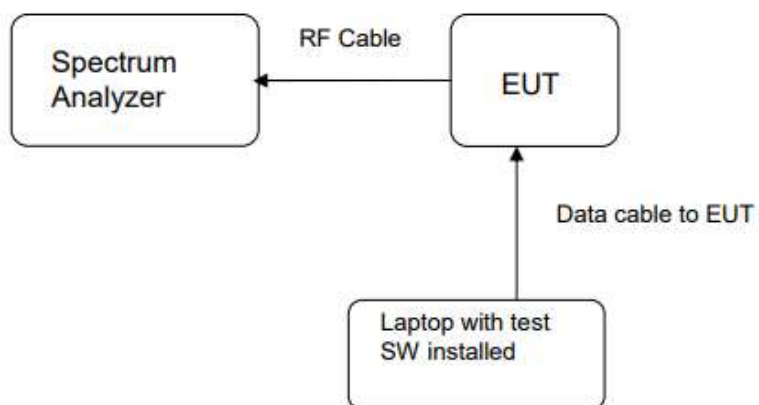
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Diagram of Measurement Equipment Configuration for Transmitter Measurement



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4 Test Results

4.1 Transmitter Requirement & Test Suites

4.1.1 Antenna Requirement

RESULT:

PASS

Test standard : FCC Part 15.407(a), 15.203

Requirement : The use of approved antennas only with directional gains that do not exceed 6 dBi

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 4.18 dBi. The antenna is an internal antenna with no possibility of replacement with a non-approved antenna by the end-user.

Therefore, the EUT is considered to comply with this provision.

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4.1.2 Peak Output Power and E.I.R.P

RESULT:

PASS

Test standard : FCC Part 15.407(a)

Requirement : ANSI C63.10-2013, KDB 789033

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1.a

Ambient temperature : 25°C

Relative humidity : 52%

Table 1: Peak Output Power

Band I (5150 – 5250 MHz)

Test Mode	Test Channel (MHz)	Measured Peak Output Power		FCC Limit (mW)
		(dBm)	(mW)	
802.11a	5180	13.30	21.38	250
	5220	13.25	21.13	
	5240	13.19	20.84	
802.11n(HT20)	5180	13.45	22.13	
	5220	13.25	21.13	
	5240	13.38	21.78	

Band IV (5725 – 5850 MHz)

Test Mode	Test Channel (MHz)	Measured Peak Output Power		FCC Limit (W)
		(dBm)	(mW)	
802.11a	5745	10.59	11.46	1
	5785	10.23	10.54	
	5825	11.39	13.77	
802.11n(HT20)	5745	10.60	11.48	
	5785	10.44	11.07	
	5825	11.40	13.80	

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4.1.3 26dB Bandwidth and 99% Bandwidth

RESULT:

PASS

Test standard : FCC Part 15.407(a)

Requirement : ANSI C63.10-2013, KDB 789033

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1.a

Ambient temperature : 25°C

Relative humidity : 52%

Table 2: 26dB Bandwidth and 99% Bandwidth

Band I (5150 – 5250 MHz)

Test Mode	Test Channel (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
802.11a	5180	21.420	17.010
	5220	21.400	16.969
	5240	21.340	17.030
802.11n(HT20)	5180	21.330	17.931
	5220	21.550	17.946
	5240	21.460	17.927

Band IV (5725 – 5850 MHz)

Test Mode	Test Channel (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
802.11a	5745	21.550	17.005
	5785	21.480	17.052
	5825	21.750	17.064
802.11n(HT20)	5745	21.540	17.920
	5785	21.370	17.951
	5825	21.480	17.931

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Figure 1: 26dB Bandwidth and 99% Bandwidth, 802.11a, 5180MHz



Figure 2: 26dB Bandwidth and 99% Bandwidth, 802.11a, 5220MHz



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Figure 3: 26dB Bandwidth and 99% Bandwidth, 802.11a, 5240MHz



Figure 4: 26dB Bandwidth and 99% Bandwidth, 802.11n(HT20), 5180MHz



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Figure 5: 26dB Bandwidth and 99% Bandwidth, 802.11n(HT20), 5220MHz



Figure 6: 26dB Bandwidth and 99% Bandwidth, 802.11n(HT20), 5240MHz



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Figure 7: 26dB Bandwidth and 99% Bandwidth, 802.11a, 5745MHz



Figure 8: 26dB Bandwidth and 99% Bandwidth, 802.11a, 5785MHz



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Figure 9: 26dB Bandwidth and 99% Bandwidth, 802.11a, 5825MHz



Figure 10: 26dB Bandwidth and 99% Bandwidth, 802.11n(HT20), 5745MHz



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Figure 11: 26dB Bandwidth and 99% Bandwidth, 802.11n(HT20), 5785MHz



Figure 7: 26dB Bandwidth and 99% Bandwidth, 802.11n(HT20), 5825MHz



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4.1.4 6dB Bandwidth

RESULT:

PASS

Test standard : FCC Part 15.407(e)

Requirement : ANSI C63.10-2013, KDB 789033

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1.a

Ambient temperature : 25°C

Relative humidity : 52%

Table 3: 6dB Bandwidth

Band IV (5725 – 5850 MHz)

Test Mode	Test Channel (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
802.11a	5745	16.42	0.5
	5785	16.42	
	5825	16.47	
802.11n(HT20)	5745	17.77	
	5785	17.72	
	5825	17.72	

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Figure 13: 6dB Bandwidth, 802.11a, 5745MHz



Figure 14: 6dB Bandwidth, 802.11a, 5785MHz



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Figure 15: 6dB Bandwidth, 802.11a, 5825MHz



Figure 16: 6dB Bandwidth, 802.11n(HT20), 5745MHz



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Figure 17: 6dB Bandwidth, 802.11n(HT20), 5785MHz



Figure 18: 6dB Bandwidth, 802.11n(HT20), 5825MHz



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4.1.5 Power Spectral Density

RESULT:

PASS

Test standard : FCC Part 15.407(a)

Requirement : ANSI C63.10-2013, KDB 789033

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1.a

Ambient temperature : 25°C

Relative humidity : 52%

Table 4: Power Spectral Density

Band I (5150 – 5250 MHz)

Test Mode	Test Channel (MHz)	PSD (dBm/MHz)	FCC Limit (dBm/MHz)
802.11a	5180	8.88	11
	5220	8.91	
	5240	9.14	
802.11n(HT20)	5180	9.31	
	5220	9.88	
	5240	9.91	

Band IV (5725 – 5850 MHz)

Test Mode	Test Channel (MHz)	PSD (dBm/500KHz)	FCC Limit (dBm/500KHz)
802.11a	5745	2.51	30
	5785	2.48	
	5825	3.93	
802.11n(HT20)	5745	3.27	
	5785	3.35	
	5825	4.05	

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Figure 19: Power Spectral Density, 802.11a, 5180MHz



Figure 20: Power Spectral Density, 802.11a, 5220MHz



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Figure 21: Power Spectral Density, 802.11a, 5240MHz



Figure 22: Power Spectral Density, 802.11n(HT20), 5180MHz



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Figure 23: Power Spectral Density, 802.11n(HT20), 5220MHz



Figure 24: Power Spectral Density, 802.11n(HT20), 5240MHz

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Figure 25: Power Spectral Density, 802.11a, 5745MHz

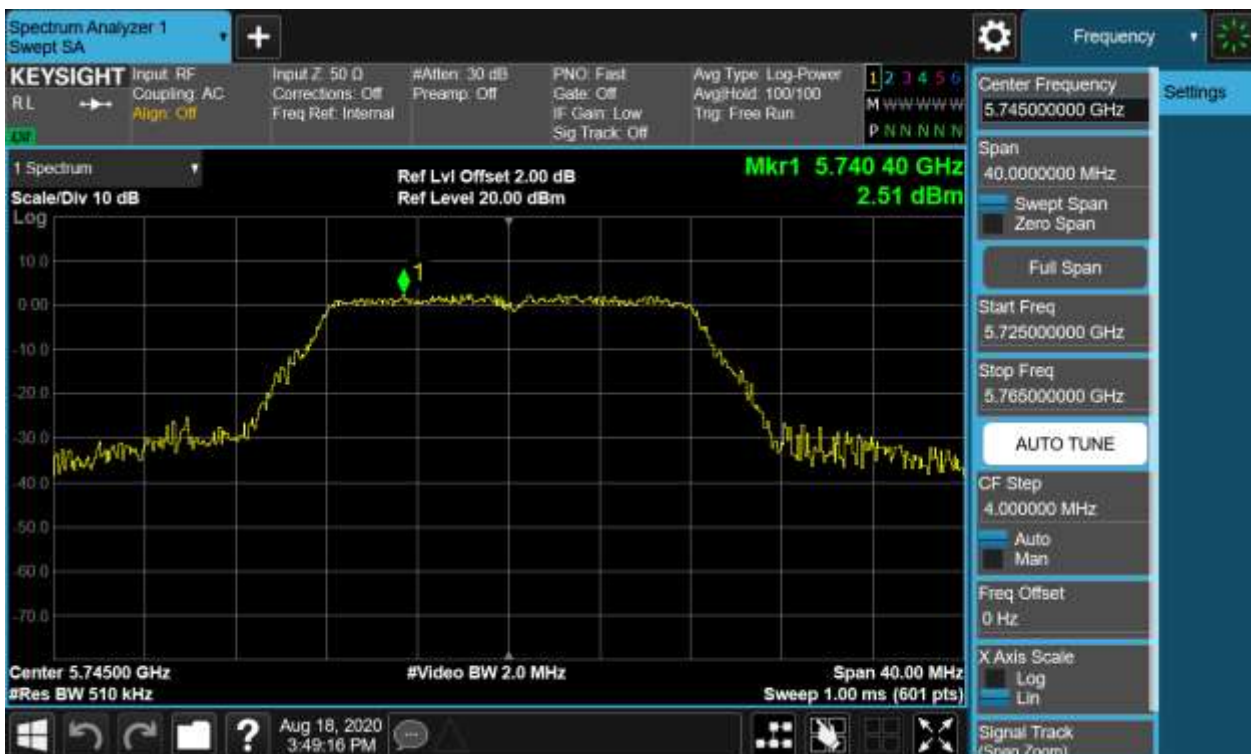


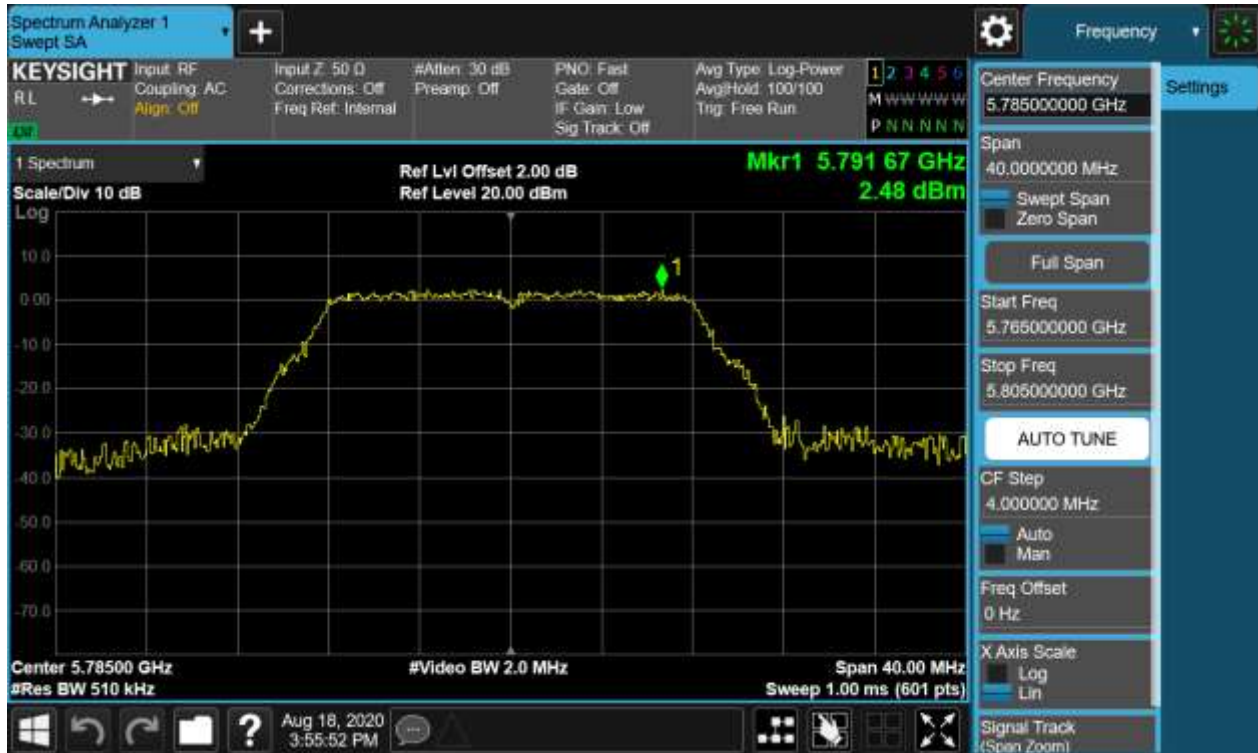
Figure 26: Power Spectral Density, 802.11a, 5785MHz

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Figure 27: Power Spectral Density, 802.11a, 5825MHz



Figure 28: Power Spectral Density, 802.11n(HT20), 5745MHz



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Figure 29: Power Spectral Density, 802.11n(HT20), 5785MHz



Figure 30: Power Spectral Density, 802.11n(HT20), 5825MHz



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4.1.6 Undesirable Emission

RESULT:

PASS

Test standard : FCC Part 15.407(b), 15.209

Requirement : ANSI C63.10-2013, KDB 789033

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1.a

Ambient temperature : 25°C

Relative humidity : 52%

Notes:

Test plots please refer to the annex document "WLAN 5GHz-TX CSE EXHIBIT A of SHE20080007-02DE".

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4.1.7 Spurious Emission

RESULT:

PASS

Test standard : FCC Part 15.407(b)

Requirement : ANSI C63.10-2013

Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/Middle/High

Operation Mode : A

Ambient temperature : 25°C

Relative humidity : 52%

Notes:

Test plots please refer to the annex document "WIFI5GHz-TX EXHIBIT A of SHE20080007-02DE"

1. For 9 kHz ~ 30 MHz, the amplitude of spurious emissions that are attenuated by more than 20dB below the permissible. The value has no need to be reported.
2. The spurious above 18GHz is noise only and 20dB below the limit. The value has no need to be reported.
3. The EUT is working in the Normal link mode below 1 GHz.

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4.1.8 Band Edge (Restricted-band band-edge)

RESULT:

PASS

Test standard : FCC Part 15.407(b)

Requirement : ANSI C63.10-2013, KDB 789033

Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1

Ambient temperature : 25°C

Relative humidity : 52%

Notes:

Test plots please refer to the annex document "WIFI5GHz-TX EXHIBIT A of SHE20080007-02DE"

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4.1.9 Frequency Stability

RESULT:

PASS

Test standard : FCC Part 15.407(g)

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1

Ambient temperature : 25°C

Relative humidity : 52%

Table 5: Frequency Stability

Band I (5150 – 5250 MHz):

Voltage vs. Frequency Stability (5180MHz)

Test Conditions		Frequency (MHz)	Max. Deviation (ppm)	Limit (ppm)
Temp (°C)	Voltage (V)			
20	4.20 V	5179.9895	2.03	± 20
	3.70 V	5180.0018	3.47	
	3.60 V	5179.9978	4.25	

Temperature vs. Frequency Stability (5180MHz)

Test Conditions		Frequency (MHz)	Max. Deviation (ppm)	Limit (ppm)
Voltage (V)	Temp (°C)			
3.7 V	-30	--	--	± 20
	-20	--	--	
	-10	5180.0024	4.63	
	0	5180.0022	4.25	
	10	5180.0017	3.28	
	20	5180.0018	3.47	
	30	5180.0023	4.44	
	40	5180.0022	4.25	
	50	5180.0019	3.67	

Note:

The all configurations were tested respectively, but only the worst channel shown here.

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Band IV (5725 – 5850 MHz):

Voltage vs. Frequency Stability (5745MHz)

Test Conditions		Frequency (MHz)	Max. Deviation (ppm)	Limit (ppm)
Temp (°C)	Voltage (V)			
20	4.20 V	5745.0192	3.34	± 20
	3.70 V	5745.0189	3.29	
	3.60 V	5745.0199	3.46	

Temperature vs. Frequency Stability (5745MHz)

Test Conditions		Frequency (MHz)	Max. Deviation (ppm)	Limit (ppm)
Voltage (V)	Temp (°C)			
3.8 V	-30	--	--	± 20
	-20	--	--	
	-10	5745.0195	3.39	
	0	5745.0196	3.41	
	10	5745.0193	3.36	
	20	5745.0199	3.46	
	30	5745.0204	3.55	
	40	5745.0203	3.53	
	50	5745.0205	3.57	

Note:

The all configurations were tested respectively, but only the worst channel shown here.

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4.2 Mains Emissions

4.2.1 Conducted Emission on AC Mains

RESULT:

PASS

Test standard : FCC Part 15.207

Requirement : ANSI C63.10-2013

Kind of test site : Shielded room

Test setup

Input Voltage : AC 120V, 60Hz; AC 240V, 50Hz

Operation Mode : Normal Link

Earthing : Not Connected

Ambient temperature : 25°C

Relative humidity : 52%

For details refer to following test plot.

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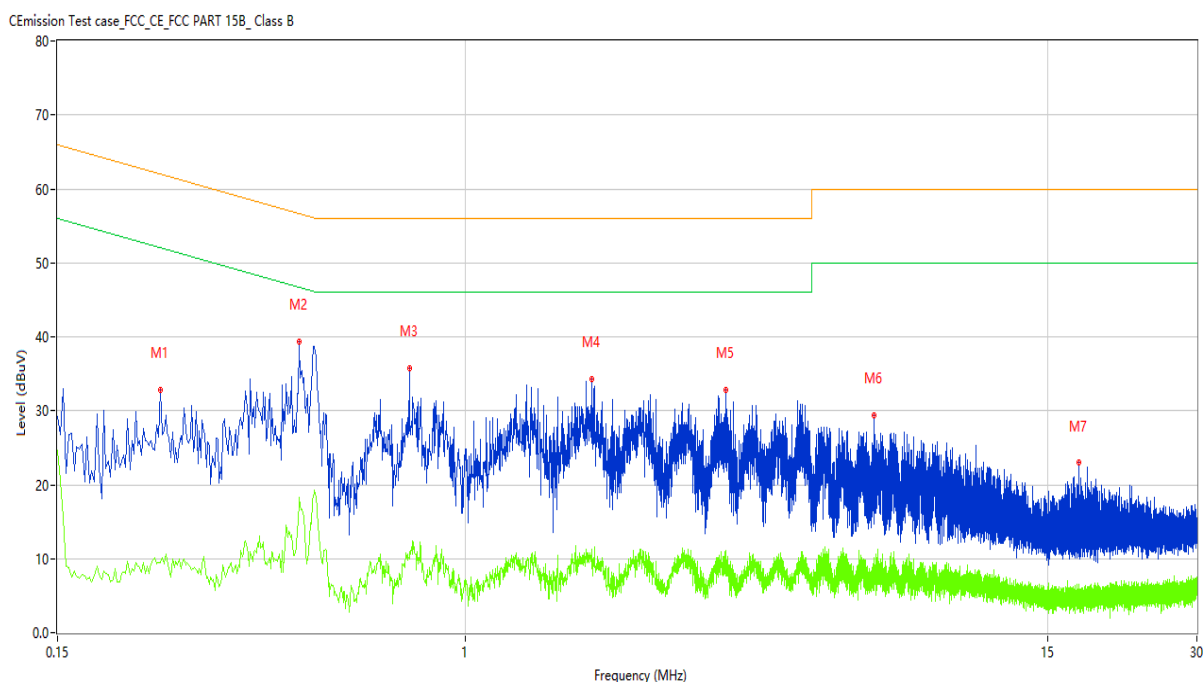
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Note:

The all configurations were tested respectively, but only the worst configuration shown here.

Figure 8: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.242	35.56	10.14	62.03	-26.47	Peak	L	Pass
1*	0.242	23.59	10.14	62.03	-38.44	QP	L	Pass
1**	0.242	9.54	10.14	52.03	-42.49	AV	L	Pass
2	0.462	43.52	10.15	56.66	-13.14	Peak	L	Pass
2*	0.462	32.21	10.15	56.66	-24.45	QP	L	Pass
2**	0.462	18.34	10.15	46.66	-28.32	AV	L	Pass
3	0.770	36.72	10.15	56.00	-19.28	Peak	L	Pass
3*	0.770	24.81	10.15	56.00	-31.19	QP	L	Pass
3**	0.770	9.98	10.15	46.00	-36.02	AV	L	Pass
4	1.796	35.11	10.17	56.00	-20.89	Peak	L	Pass
4*	1.796	23.53	10.17	56.00	-32.47	QP	L	Pass
4**	1.796	11.24	10.17	46.00	-34.76	AV	L	Pass
5	3.362	32.26	10.23	56.00	-23.74	Peak	L	Pass
5*	3.362	22.12	10.23	56.00	-33.88	QP	L	Pass
5**	3.362	11.10	10.23	46.00	-34.90	AV	L	Pass
6	6.678	29.52	10.30	60.00	-30.48	Peak	L	Pass
6*	6.678	16.35	10.30	60.00	-43.65	QP	L	Pass
6**	6.678	10.11	10.30	50.00	-39.89	AV	L	Pass
7	17.320	22.57	10.46	60.00	-37.43	Peak	L	Pass

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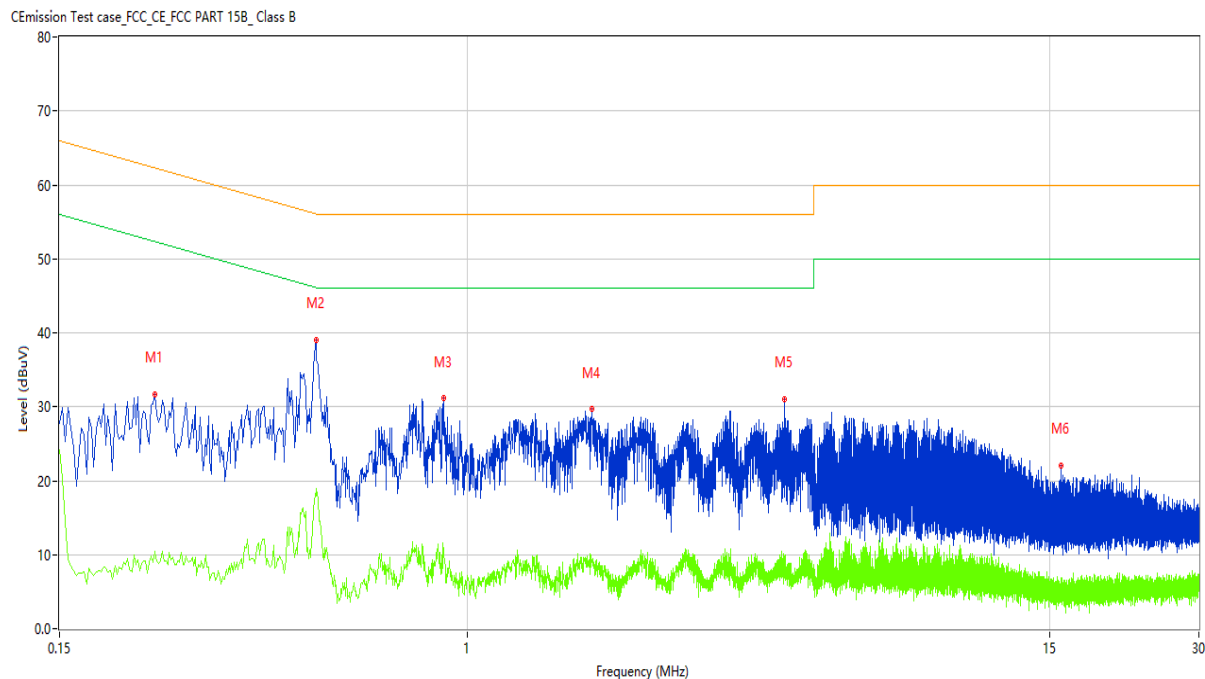
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7*	17.320	8.69	10.46	60.00	-51.31	QP	L	Pass
7**	17.320	6.52	10.46	50.00	-43.48	AV	L	Pass

Figure 72: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.234	32.03	10.14	62.31	-30.28	Peak	N	Pass
1*	0.234	22.78	10.14	62.31	-39.53	QP	N	Pass
1**	0.234	10.44	10.14	52.31	-41.87	AV	N	Pass
2	0.494	39.78	10.15	56.10	-16.32	Peak	N	Pass
2*	0.494	34.14	10.15	56.10	-21.96	QP	N	Pass
2**	0.494	17.93	10.15	46.10	-28.17	AV	N	Pass
3	0.896	31.86	10.15	56.00	-24.14	Peak	N	Pass
3*	0.896	22.83	10.15	56.00	-33.17	QP	N	Pass
3**	0.896	10.06	10.15	46.00	-35.94	AV	N	Pass
4	1.780	30.50	10.17	56.00	-25.50	Peak	N	Pass
4*	1.780	22.62	10.17	56.00	-33.38	QP	N	Pass
4**	1.780	9.29	10.17	46.00	-36.71	AV	N	Pass
5	4.368	29.70	10.25	56.00	-26.30	Peak	N	Pass
5*	4.368	18.63	10.25	56.00	-37.37	QP	N	Pass
5**	4.368	9.81	10.25	46.00	-36.19	AV	N	Pass
6	15.786	21.15	10.45	60.00	-38.85	Peak	N	Pass
6*	15.786	9.60	10.45	60.00	-50.40	QP	N	Pass
6**	15.786	5.82	10.45	50.00	-44.18	AV	N	Pass

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5 Appendixes

5.1 Photographs of the Sample



Front of the sample



Rear of the sample

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5.2 Set-up for Conducted Emissions



5.3 Set-up for Conducted RF test at Antenna Port



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5.4 Set-up for Spurious Emissions below 1GHz



Below 1 GHz

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5.5 Set-up for Spurious Emissions above 1GHz



Above 1GHz

End of the report