

TÜV

Certificate No.: 3745.01

FCC - TEST REPORT

Report Number :	7095021029105-00	Date of Issue: Dec.13,2021			
Model	: SC022-WBI0				
Product Type	: Doorbell Camera+Chime				
Applicant	: Hangzhou Xizhi Electronio	cs Co., Ltd.			
Address	: The second floor,Building	3,No. 8 Yuyang Road,Lushan Subdistrict,			
	Fuyang Hangzhou, Zhejia	ing			
Manufacturer	: Hangzhou Xizhi Electronio	cs Co., Ltd.			
Address	: The second floor,Building 3,No. 8 Yuyang Road,Lushan Subdistrict,				
	Fuyang Hangzhou, Zhejiang				
Test Result :	■ Positive □ Negati	ve			
Total pages including Appendices :	33				

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

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Shanghai 201108,

P.R. China

Test Firm FCC

Registration Number:

820234

Designation

number:

CN1183

IC Company

Number:

25988

CAB identifier: CN0101

Telephone: +86 21 6141 0123 Fax: +86 21 6140 8600



3 Description of the Equipment under Test

Product: Doorbell Camera+Chime

Model no.: SC022-WBI0

FCC ID: 2ASBR-XZ-R8841

Options and accessories: NA

Rating: 3*1.5V AA batteries for doorbell camera

AC 100-120V,50/60Hz for Chime

RF Transmission 802.11b/g/n-HT20: 2412~2462 MHz (Wi-Fi) Frequency: 802.11n-HT40: 2422~2452 MHz (Wi-Fi)

2402~2480 MHz (BLE4.2)

433.92MHz (SRD)

Modulation: Direct Sequence Spread Spectrum (DSSS) for 802.11b

Orthogonal Frequency Division Multiplexing (OFDM) for

802.11g/n;

2.4GHz BLE: GFSK 433.92MHz: ASK

Channel list:

	802.11b/g/n(HT20)			802	2.11n(HT	40)	
Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)
1	2412	7	2442	3	2422	8	2447MHz
2	2417	8	2447	4	2427	9	2452MHz
3	2422	9	2452	5	2432		
4	2427	10	2457	6	2437		
5	2432	11	2462	7	2442		
6	2437						

	Bluetooth Low Energy						
Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480



Antenna Gain: -10.36dBi for spring antenna

3dBi for Inverted-F antenna

Description of the EUT: The EUT was a wireless doorbell camera+ Chime. The doorbell

camera which have Wi-Fi and BLE function, it also can transmit at

433.92MHz. However, the Chime is a SRD receiver.

Test sample no.: SHA-614997-1

The sample's mentioned in this report is/are submitted/ supplied/ manufactured by client. The laboratory therefore assumes no responsibility for accuracy of information on the brand name, model number, origin of manufacture, consignment, antenna gain or any information supplied.



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4 Summary of Test Standards

Test Standards			
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES		
10-1-2020 Edition	Subpart C - Intentional Radiators		

All the test methods were according to KDB 558074 D01 15.247 Meas Guidance v05r02 and ANSI C63.10 (2013).



5 Summary of Test Results

	Technical Requirements					
FCC Part 15 Subpa	art C		1	1		
Test Condition		Pages	Test		st Res	
		1 0.900	Site	Pass	Fail	N/A
§15.207	Conducted emission AC power port					
§15.247 (b) (1)	Conducted peak output power	15-17	Site 1			
§15.247(a)(1)	20dB bandwidth					
§15.247(a)(1)	Carrier frequency separation					
§15.247(a)(1)(iii)	Number of hopping frequencies					
§15.247(a)(1)(iii)	Dwell Time					
§15.247(a)(2)	6dB bandwidth	18-20	Site 1			
§15.247(e)	Power spectral density	21-23	Site 1			
§15.247(d)	Spurious RF conducted emissions	24-30	Site 1	\boxtimes		
§15.247(d)	Band edge	31-33	Site 1			
§15.247(d) & §15.209	Spurious radiated emissions for transmitter	34-39	Site 1			
§15.203	Antenna requirement	See note	e 1			

Note 1: N/A=Not Applicable. Conducted emission is not apply for battery operated device. Note 2: The EUT uses spring antenna and Inverted-F antenna. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.



6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2ASBR-XZ-R8841 complies with Section 15.205, 15.209, 15.231 of the FCC Part 15, Subpart C Rules.

This report is only for the 2.4GHz BLE test report, for the 2.4GHz Wi-Fi test report please refer to 7095021029106-00 and 433.92MHz report please refer to 7095021029107-00.

SUMMARY:

All tests according to the regulations cited on page 5 were

- Performed
- □ Not Performed

The Equipment under Test

- - **Fulfills** the general approval requirements.
- □ **Does not** fulfill the general approval requirements.

Sample Received Date: November 26, 2021

Testing Start Date: December 2, 2021

Testing End Date: December 9, 2021

-TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

Reviewed by: Prepared by: Tested by:

Hui TONG

Review Engineer

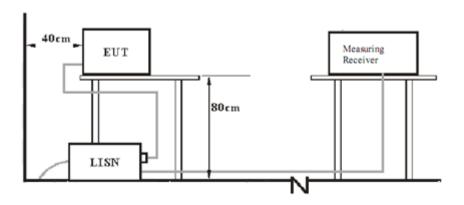
Jiaxi XU Project Engineer Cheng Huali Test Engineer



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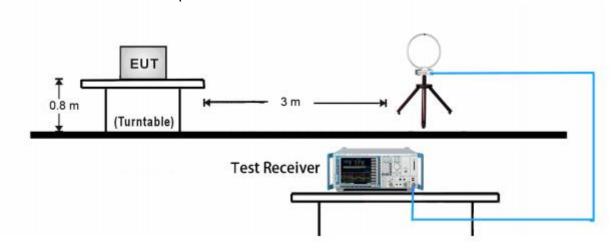
7 Test Setups

7.1 AC Power Line Conducted Emission test setups



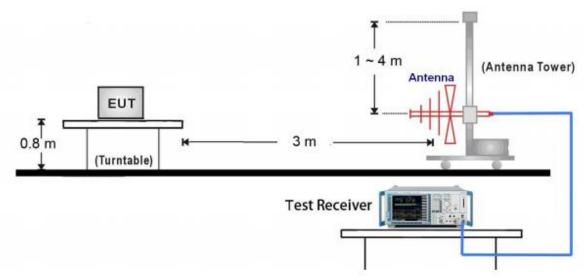
7.2 Radiated test setups

9kHz ~ 30MHz Test Setup:

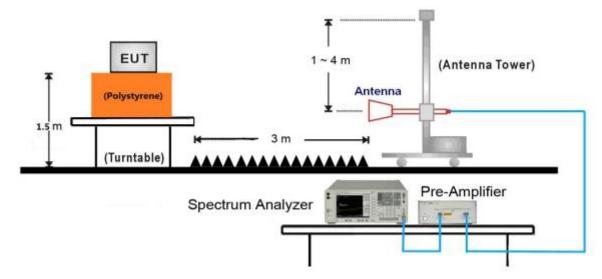




30MHz ~ 1GHz Test Setup:

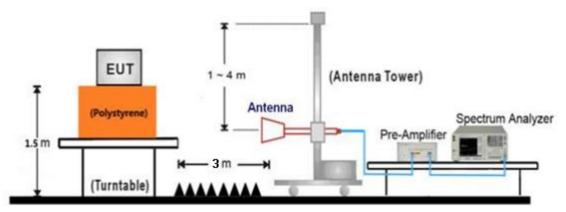


1GHz ~ 18GHz Test Setup:

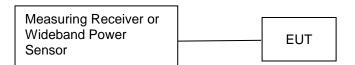




18GHz ~ 40GHz Test Setup:



7.3 Conducted RF test setups





8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	Lenove	E470	PF-OU5TS7 17/09

Test software: Wifi Test Tool v1.6.0 release

The system was configured to channel 0, 19, and 39 for the test.

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power.



9 Technical Requirement

9.1 Conducted peak output power

Test Method

- Use the following spectrum analyzer settings:
 RBW > the 6 dB bandwidth of the emission being measured, VBW≥3RBW, Span≥3RBW
 Sweep = auto, Detector function = peak, Trace = max hold.
- 2. Add a correction factor to the display.
- 3. Use a power meter to measure the conducted peak output power.

Limits

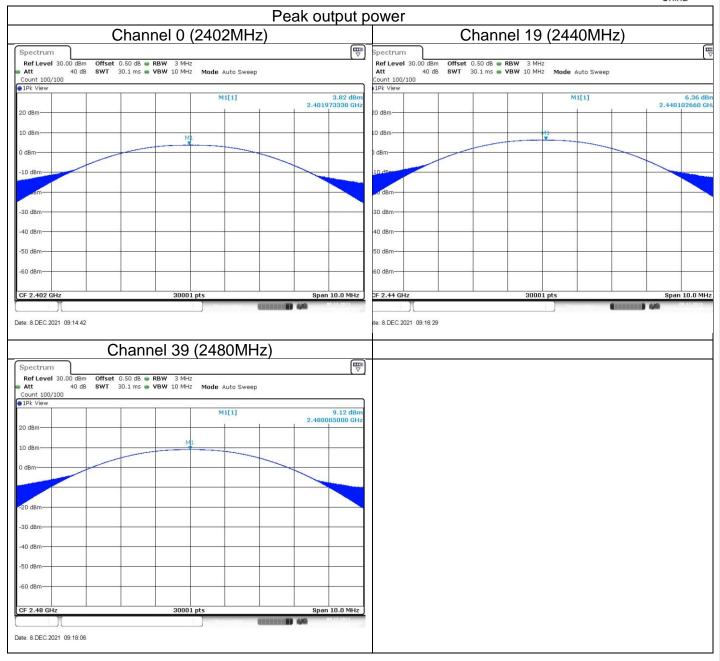
Frequency Range	Limit	Limit
MHz	W	dBm
2400-2483.5	≤1	≤30

Test result as below table

Frequency	Conducted Peak Output Power	Data transmission rate	Result
MHz	dBm		
Low channel 2402MHz	3.82	1Mbps	Pass
Middle channel 2440MHz	6.36	1Mbps	Pass
High channel 2480MHz	9.12	1Mbps	Pass



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9.2 6dB bandwidth

Test Method

- Use the following spectrum analyzer settings:
 RBW=100K, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 2. Use the automatic bandwidth measurement capability of an instrument, may be employed using the X dB bandwidth mode with X set to 6 dB, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.
- 3. Allow the trace to stabilize, record the X dB Bandwidth value.

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		_	:4
		n	ıt

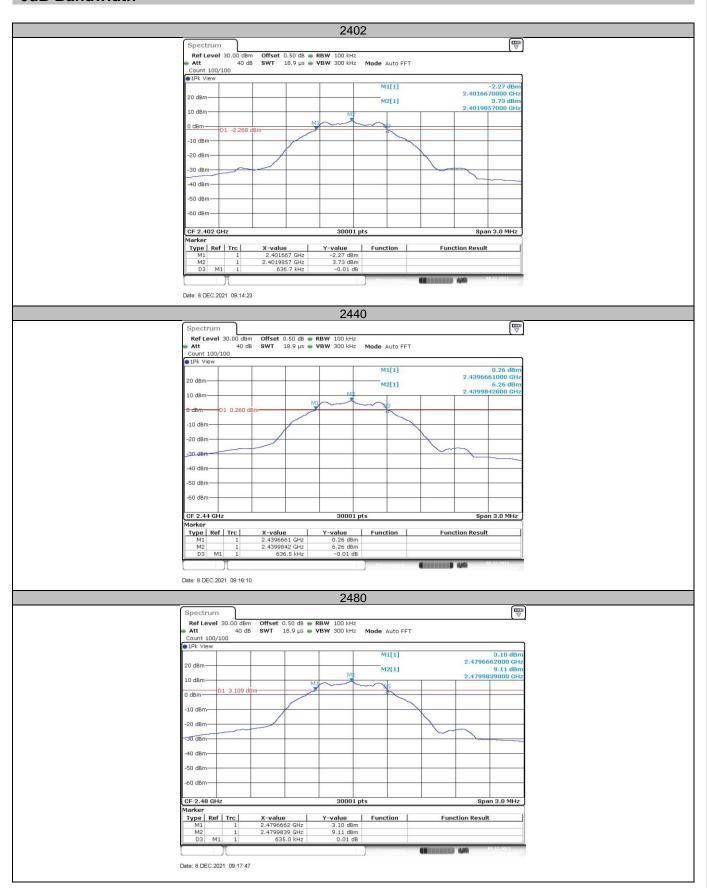
Limit [kHz]	
≥500	

Test result

Frequency	6dB bandwidth	Data transmission	Result
MHz	MHz	rate	
Top channel 2402MHz	0.637	1Mbps	Pass
Middle channel 2440MHz	0.637	1Mbps	Pass
Bottom channel 2480MHz	0.635	1Mbps	Pass



6dB Bandwidth





9.3 Power spectral density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

- Set analyzer center frequency to DTS channel center frequency.
 RBW=3kHz,VBW≥3RBW,Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
- 2. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
- 3. Repeat above procedures until other frequencies measured were completed.

Limit

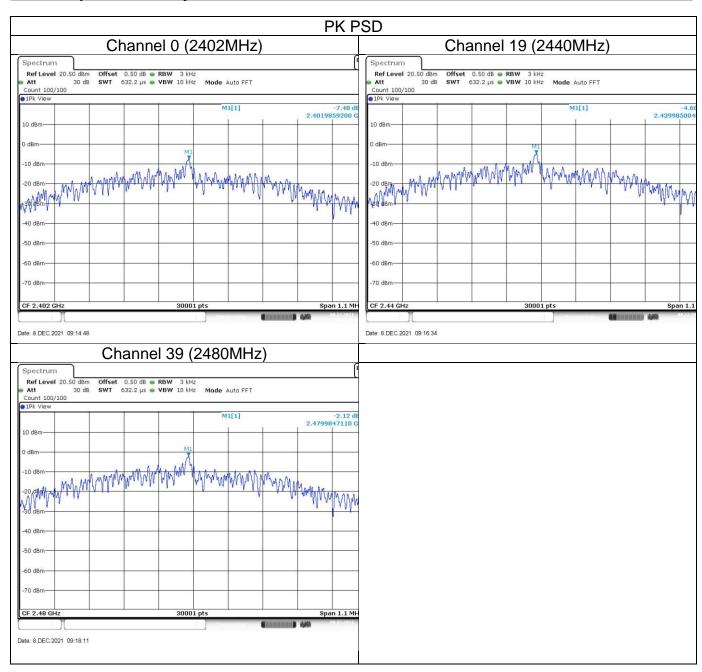
	Limit [dBm/3kHz]						
-	≤8						

Test result

	Power spectral	Data transmission	Result
Frequency	density	rate	
MHz	dBm/3KHz		
Top channel 2402MHz	-7.48	1Mbps	Pass
Middle channel 2440MHz	-4.68	1Mbps	Pass
Bottom channel 2480MHz	-2.12	1Mbps	Pass



Power spectral density





9.4 Spurious RF conducted emissions

Test Method

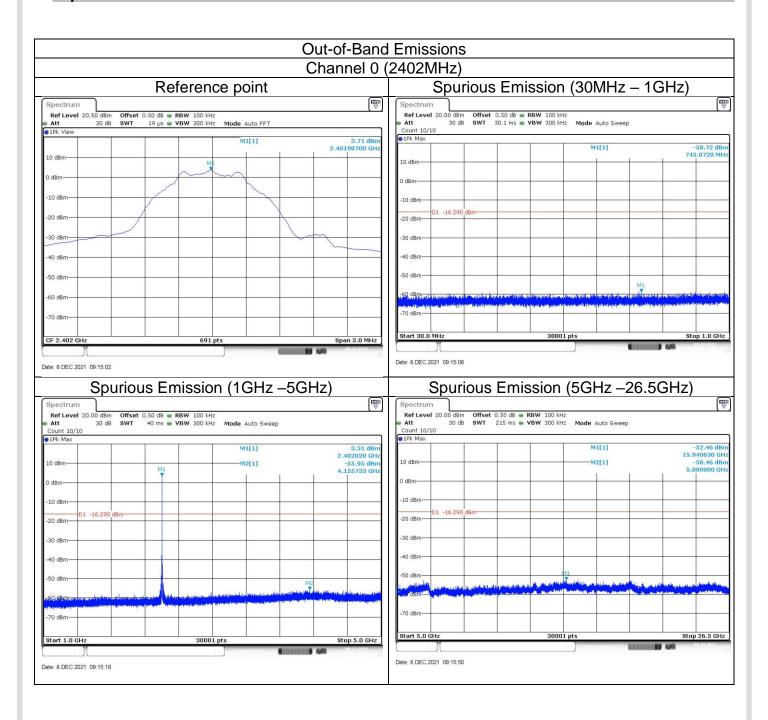
- 1. Establish a reference level by using the following procedure:
 - a. Set RBW=100 kHz. VBW≥3RBW. Detector =peak, Sweep time = auto couple, Trace mode = max hold.
 - b. Allow trace to fully stabilize, use the peak marker function to determine the maximum PSD level.
- 2. Use the maximum PSD level to establish the reference level.
 - a. Set the center frequency and span to encompass frequency range to be measured.
 - b. Use the peak marker function to determine the maximum amplitude level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements, report the three highest emissions relative to the limit.
- 3. Repeat above procedures until other frequencies measured were completed.

Limit

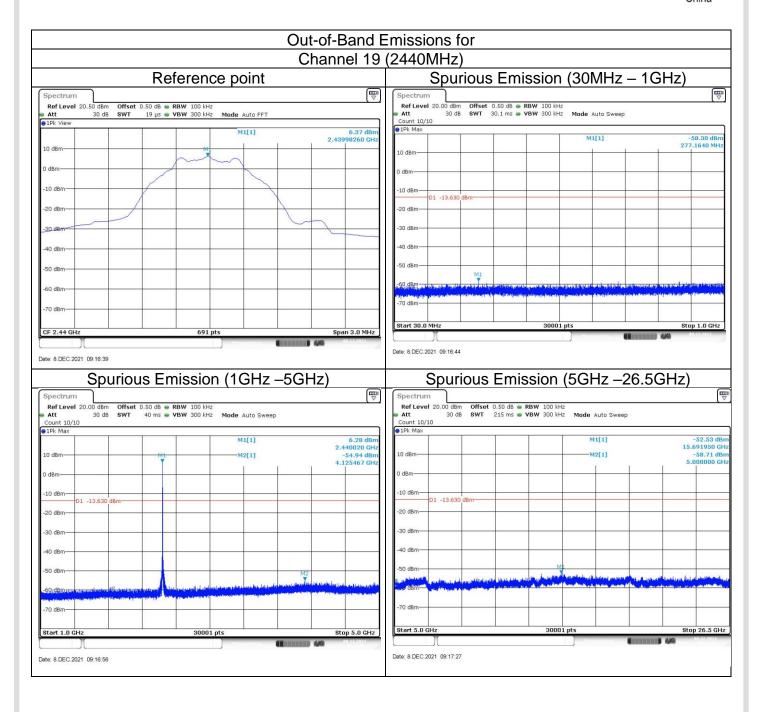
Frequency Range MHz	Limit (dBc)
30-25000	-20



Spurious RF conducted emissions









Out-of-Band Emissions for 1Mbps Channel 39 (2480MHz) Reference point Spurious Emission (30MHz - 1GHz) Spectrum Ref Level 20.00 dBm

Att 30 dB

Count 10/10

1Pk Max Ref Level 20.50 dBm Att 30 dB Offset 0.50 dB • RBW 100 kHz SWT 30.1 ms • VBW 300 kHz Att
1Pk View M1[1] 10 dBm -30 dBm Date: 8.DEC.2021 09:18:30 Date: 8.DEC.2021 09:18:25 Spurious Emission (1GHz -5GHz) Spurious Emission (5GHz -26.5GHz) Spectrum Spectrum
 Ref Level
 20.00 dBm
 Offset
 0.50 dB
 ■ RBW
 100 kHz

 Att
 30 dB
 SWT
 215 ms
 ■ VBW
 300 kHz

 Count 10/10
 1Pk Max
 VBW
 300 kHz
 Ref Level 20.00 dBm Offset
Att 30 dB SWT
 Offset
 0.50 dB
 ■ RBW
 100 kHz

 SWT
 40 ms
 ■ VBW
 300 kHz
 Mode
 Auto Sweep
 Mode Auto Sweep Count 10/10 ●1Pk Max -52.43 dBn 15.881860 GH: -58.33 dBn 5.000000 GH: M1[1] M1[1] 10 dBm M2[1]

Date: 8.DEC.2021 09:18:42

Date: 8.DEC.2021 09:19:13



9.5 Band edge

Test Method

- 1 Use the following spectrum analyzer settings: Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 kHz, VBW≥RBW, Sweep = auto, Detector function = peak, Trace = max hold.
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section.

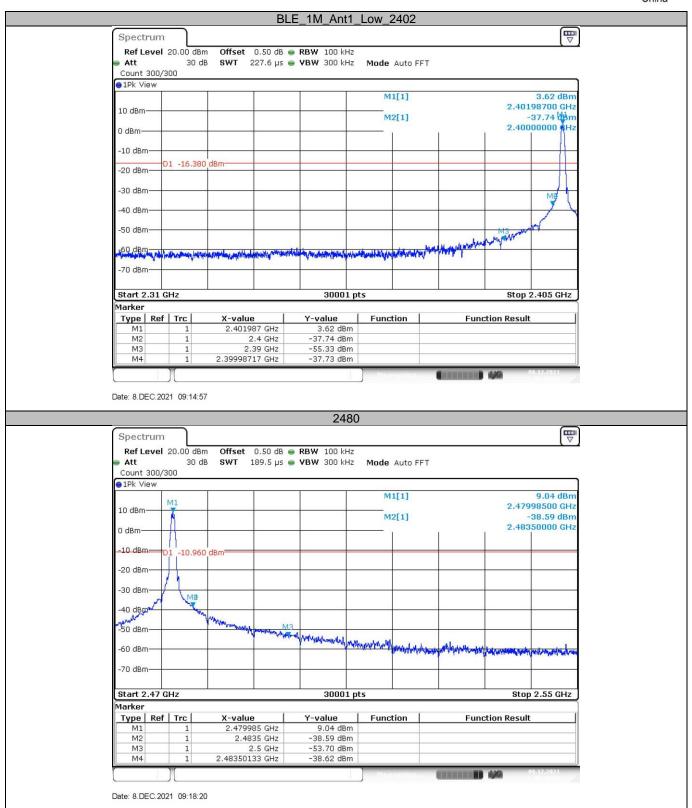
Limit

According to §15.247(d) and RSS-247 5.5, in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) and RSS-Gen 8.10, must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)) and RSS-Gen.

Test result



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9.6 Spurious radiated emissions for transmitter

Test Method

- 1. The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. The EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5. Use the following spectrum analyzer settings According to C63.10:

For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 kHz to 120 kHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Peak unwanted emissions Above 1GHz:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 1MHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Procedures for average unwanted emissions measurements above 1000 MHz

- a) RBW = 1MHz.
- b) VBW \geq [3 × RBW].
- c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \leq RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
- d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)
- e) Sweep time = auto.
- f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)
- g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:



- 1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is [10 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.
- 2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.
- 3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Limit

The radio emission outside the operating frequency band shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Radiated emissions which fall in the restricted bands, as defined in section 15.205 and RSS-GEN 8.10 must comply with the radiated emission limits specified in section 15.209.

Frequency MHz	Field Strength uV/m	Measured Distance Meters
0.009~0.490	2400/F (kHz)	300
0.490~1.705	24000/F (kHz)	30
1.705~30	30	30

Frequency	Field Strength	Field Strength	Detector
MHz	uV/m	dBμV/m	
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK



Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Pre-scan with three orthogonal axis and worst case as X axis. The only worse case test result is listed in the report.

Test result

Test mode: GFSK Channel 0 (2402MHz)								
Frequency (MHz) Measure Limit (dBuV/M) Margin (dB) Detector Polariza								
2389.3	58.43	74.00	25.61	Peak	Horizontal			
2389.3	42.25	54.00	25.61	AV	Horizontal			
4804.0	43.57	74.00	27.43	Peak	Horizontal			
2388.9	2388.9 55.81 74.00 2		28.62	Peak	Vertical			
2388.9	2388.9 46.81 54.00 28.62		28.62	AV	Vertical			
4804.0	44.53	74.00	26.47	Peak	Vertical			

Test mode: GFSK							
	Channel 19 (2440MHz)						
Frequency (MHz) Measure Limit Margin (dBuV/M) (dBuV/M) Margin (dB) Detector Polarization							
4880.0	44.73	74.00	28.27	Peak	Horizontal		
4879.0	44.37	74.00	28.63	Peak	Vertical		

Test mode: GFSK							
		Channel 39 (2	2480MHz)				
Frequency (MHz) Measure Limit Margin (dBuV/M) (dBuV/M) Margin (dB) Detector Polariza							
2483.7	66.52	74.00	22.97	Peak	Horizontal		
2483.7	40.20	54.00	22.97	AV	Horizontal		
4967.8	44.08	74.00	29.20	Peak	Horizontal		
2483.8	64.73 74.00 2		23.39	Peak	Vertical		
2483.8	2483.8 41.22		23.39	AV	Vertical		
4959.3	43.93	74.00	28.07	Peak	Vertical		

Remark:

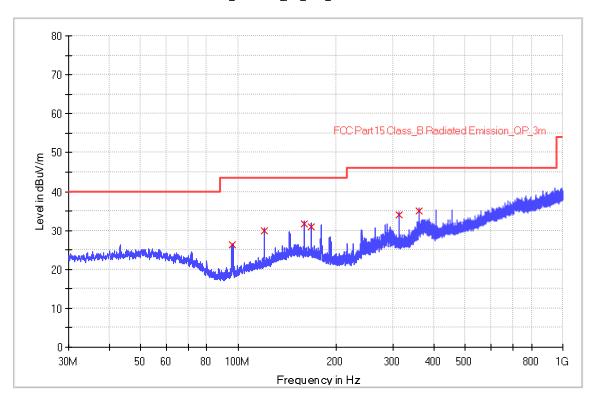
- (1) Emission level= Original Receiver Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss Amplifier gain
- (3) Margin = limit Corrected Reading



The worst case of Radiated Emission below 1GHz:

Site: 3 meter chamber	Time: 2021/12/05 - 13:11			
Limit: FCC_Part15.209_RE(3m)_ClassB	Engineer: Cheng Huali			
Probe: VULB9168	Polarity: Horizontal			
EUT: Doorbell Camera, Model no: SC022-WBI0	Power: DC 4.5V			
Note: Transmit by at channel 2480MHz.				
Note: Pre-scan with three orthogonal axis and worst ca	se as X axis			

RE_VULB9168_pre_Cont_30-1000



Limit and Margin

•											
	Frequency	QuasiPeak	Meas.	Bandwidth	Height	Pol	Azimuth	Corr.	Margin -	Limit -	
	(MHz)	(dBuV/m)	Time	(kHz)	(cm)		(deg)	(dB)	QPK	QPK	
			(ms)						(dB)	(dBuV/m)	
	96.120000	26.2	1000.0	120.000	100.2	Н	66.0	15.7	17.3	43.5	
	119.960000	30.0	1000.0	120.000	100.2	Н	267.0	18.1	13.5	43.5	
	159.960000	31.6	1000.0	120.000	100.2	Н	325.0	20.9	11.9	43.5	
	167.920000	30.8	1000.0	120.000	100.2	Н	130.0	20.4	12.7	43.5	
	311.960000	34.0	1000.0	120.000	100.2	Н	214.0	21.9	12.0	46.0	
	359.960000	34.9	1000.0	120.000	100.2	Н	175.0	23.0	11.1	46.0	

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: $9kHz \sim 30MHz$, $18GHz \sim 25GHz$), therefore no data appear in the report.



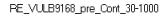
The worst case of Radiated Emission below 1GHz:

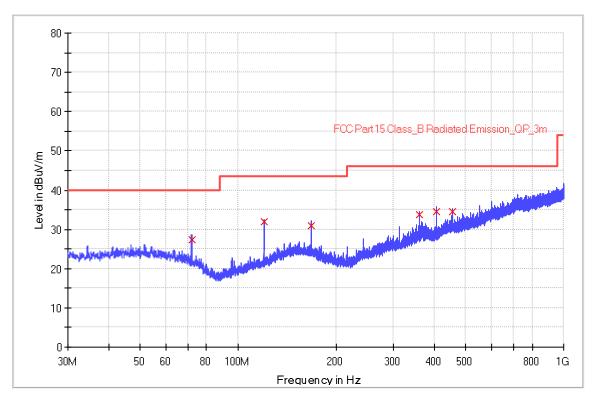
China

Site: 3 meter chamber	Time: 2021/12/05 - 13:31
Limit: FCC_Part15.209_RE(3m)_ClassB	Engineer: Cheng Huali
Probe: VULB9168	Polarity: Vertical
EUT: Doorbell Camera, Model no: SC022-WBI0	Power: DC 4.5V
N . T	

Note: Transmit by at channel 2480MHz.

Note: Pre-scan with three orthogonal axis and worst case as X axis





Limit and Margin

		a. g								
F	requency	QuasiPeak	Meas.	Bandwidth	Height	Pol	Azimuth	Corr.	Margin -	Limit -
	(MHz)	(dBuV/m)	Time	(kHz)	(cm)		(deg)	(dB)	QPK	QPK
			(ms)						(dB)	(dBuV/m)
	71.960000	27.4	1000.0	120.000	100.2	٧	230.0	18.2	12.6	40.0
•	120.000000	31.9	1000.0	120.000	100.2	٧	338.0	18.1	11.6	43.5
•	168.040000	31.0	1000.0	120.000	100.2	٧	180.0	20.4	12.5	43.5
;	360.040000	33.8	1000.0	120.000	100.2	V	113.0	23.0	12.2	46.0
4	407.960000	34.6	1000.0	120.000	100.2	٧	286.0	24.2	11.5	46.0
4	455.960000	34.6	1000.0	120.000	100.2	V	74.0	25.9	11.4	46.0

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: $9kHz \sim 30MHz$, $18GHz \sim 25GHz$), therefore no data appear in the report.



10 Test Equipment List

List of Test Instruments Test Site1

	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE DATE
С	Signal Analyzer	Rohde & Schwarz	FSV40	101091	2021-8-2	2022-8-1
	EMI Test Receiver	Rohde & Schwarz	ESR3	101906	2021-8-2	2022-8-1
	Signal Analyzer	Rohde & Schwarz	FSV40	101091	2021-8-2	2022-8-1
	Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9168	961	2019-3-16	2022-3-15
	Horn Antenna	Rohde & Schwarz	HF907	102393	2021-3-15	2024-3-14
	Pre-amplifier	Rohde & Schwarz	SCU-18D	19006451	2021-8-2	2022-8-1
RE	Loop antenna	Rohde & Schwarz	HFH2-Z2	100443	2021-5-21	2022-5-20
	DOUBLE-RIDGED WAVEGUIDE HORN WITH PRE-AMPLIFIER (18 GHZ - 40 GHZ)	ETS-Lindgren	3116C-PA	002222727	2020-9-23	2023-9-22
	3m Semi-anechoic chamber	TDK	9X6X6		2021-5-8	2024-5-7
	EMI Test Receiver	Rohde & Schwarz	ESR3	101907	2021-8-2	2022-8-1
CE	LISN	Rohde & Schwarz	ENV216	101924	2021-8-2	2022-8-1

Measurement Software Information						
Test Item	Software	Manufacturer	Version			
С	Bluetooth and WiFi Test System	Shenzhen JS tonscend co.,ltd	2.6.77.0518			
RE	EMC 32	Rohde & Schwarz	V9.15.00			
CE	EMC 32	Rohde & Schwarz	V9.15.03			

C - Conducted RF tests

- Conducted peak output power
- 6dB bandwidth and 99% Occupied Bandwidth
- Power spectral density*
- Spurious RF conducted emissions
- Band edge



11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

Items	Extended Uncertainty	
Conducted Disturbance at Mains Terminals	150kHz to 30MHz, LISN, ±3.16dB	
Radiated Disturbance	30MHz to 1GHz, ±5.03dB (Horizontal)	
	±5.12dB (Vertical)	
	1GHz to 18GHz, ±5.49dB	
	18GHz to 40GHz, ±5.63dB	
Carrier power conducted measurement	50MHz~18GHz, ±1.238dB	
Spurious Emission Conducted Measurement	9kHz ~40GHz, ± 1.224dB	

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2007, clause 4.4.3 and 4.5.1.



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12 Photographs of Test Set-ups

Refer to the < Test Setup photos >.



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13 Photographs of EUT

Refer to the < External Photos > & < Internal Photos >.

THE END