

FCC TEST REPORT

Test report
On Behalf of
Shenzhen Lonfine Innovation Technology Co.,Ltd
For

Z8 Bone Conduction Headphones Model No.:Z8,Z9,Z10,Z18,Z19,B25,B26,B28,B29,LF-18, LF-19,LF-20,G1,G2,G4,G9,R7,R8,R9,R10,R11

FCC ID:2ARGR-L898ZRF

Prepared for: Shenzhen Lonfine Innovation Technology Co.,Ltd

812, block C, zhantao technology building, minzhi avenue,

longhua district, shenzhen China

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

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Bao'an District, Shenzhen City, China

Date of Test: Sep. 20, 2018~ Sep. 28, 2018

Date of Report: Sep. 28, 2018
Report Number: HK1809201222-E



TEST RESULT CERTIFICATION

812, block C, zhantao technology building, minzhi avenue, Manufacture's Name...... Shenzhen Lonfine Innovation Technology Co.,Ltd 812, block C, zhantao technology building, minzhi avenue, longhua district, shenzhen China **Product description** N/A Trade Mark: Product name Z8 Bone Conduction Headphones Model and/or type reference :: Z8,Z9,Z10,Z18,Z19,B25,B26,B28,B29,LF-18, LF-19,LF-20,G1,G2,G4,G9,R7,R8,R9,R10,R11

FCC Rules and Regulations Part 15 Subpart C Section 15.249 Standards.....

ANSI C63.10: 2013

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Date of Test....:

Date (s) of performance of tests....: Sep. 20, 2018~ Sep. 28, 2018

Date of Issue: Sep. 28, 2018

Test Result:

Testing Engineer

Technical Manager

Authorized Signatory:

(Jason Zhou)



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1.1TEST PROCEDURES AND RESULTS

DESCRIPTION OF TEST	RESULT
CONDUCTED EMISSIONS TEST	COMPLIANT
RADIATED EMISSION TEST	COMPLIANT
BAND EDGE	COMPLIANT
OCCUPIED BANDWIDTH MEASUREMENT	COMPLIANT
ANTENNA REQUIREMENT	COMPLIANT

1.2 TEST FACILITY

Test Firm : Shenzhen HUAK Testing Technology Co., Ltd.

Address 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai

Street, Bao'an District, Shenzhen City, China

1.3 MEASUREMENT UNCERTAINTY

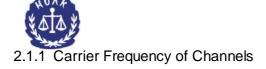
Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23 dB, k=2 Radiated emission expanded uncertainty(9kHz-30MHz) = 3.08 dB, k=2 Radiated emission expanded uncertainty(30MHz-1000MHz) = 4.42 dB, k=2 Radiated emission expanded uncertainty(Above 1GHz) = 4.06 dB, k=2



2.1GENERAL DESCRIPTION OF EUT

Equipment	Z8 Bone Conduction Headphones
Model Name	Z8
Serial No	Z9,Z10,Z18,Z19,B25,B26,B28,B29,LF-18,LF-19,LF-20,G1,G2,G4,G9,R7,R8,R9,R10,R11
Model Difference	The internal structure and function of each model are basically the same, but there are differences in color, shape, and product volume and weight. Test sample model: Z8.
FCC ID	2ARGR-L898ZRF
Antenna Type	chip antenna
Antenna Gain	0.8 dBi
BT Operation frequency	2402-2480MHz
Number of Channels	79CH
Modulation Type	GFSK
PowerSource	3.7V From Battery or DC5V 1A From Micro USB
Power Rating	3.7V From Battery or DC5V 1A From Micro USB



Channel List									
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)				
00	2402	27	2429	54	2456				
01	2403	28	2430	55	2457				
02	2404	29	2431	56	2458				
03	2405	30	2432	57	2459				
04	2406	31	2433	58	2460				
05	2407	32	2434	59	2461				
06	2408	33	2435	60	2462				
07	2409	34	2436	61	2463				
08	2410	35	2437	62	2464				
09	2411	36	2438	63	2465				
10	2412	37	2439	64	2466				
11	2413	38	2440	65	2467				
12	2414	39	2441	66	2468				
13	2415	40	2442	67	2469				
14	2416	41	2443	68	2470				
15	2417	42	2444	69	2471				
16	2418	43	2445	70	2472				
17	2419	44	2446	71	2473				
18	2420	45	2447	72	2474				
19	2421	46	2448	73	2475				
20	2422	47	2449	74	2476				
21	2423	48	2450	75	2477				
22	2424	49	2451	76	2478				
23	2425	50	2452	77	2479				
24	2426	51	2453	78	2480				
25	2427	52	2454						
26	2428	53	2455						

2.2Operation of EUT during testing

Operating Mode

The mode is used: Transmitting mode

Low Channel: 2402MHz Middle Channel: 2441MHz High Channel: 2480MHz



2.3DESCRIPTION OF TEST SETUP

Operation of EUT during Conducted testing:



Operation of EUT duringRadiation and Above1GHz Radiation testing:

EUT

Adapter information

Model: HW-059100CHQ

Input: 100-240V~, 50/60Hz, 0.5A

Output: 5VDC, 1A



2.4MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Dec. 28, 2017	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Dec. 28, 2017	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 28, 2017	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Dec. 28, 2017	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 28, 2017	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Dec. 28, 2017	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Dec. 28, 2017	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Dec. 28, 2017	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 28, 2017	1 Year
10.	Horn Antenna	Schewarzbeck	9120D	HKE-013	Dec. 28, 2017	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Dec. 28, 2017	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Dec. 28, 2017	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JS1120-B Version	HKE-083	Dec. 28, 2017	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Dec. 28, 2017	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 28, 2017	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Dec. 28, 2017	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Dec. 28, 2017	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 28, 2017	3 Year



3. CONDUCTED EMISSIONS TEST

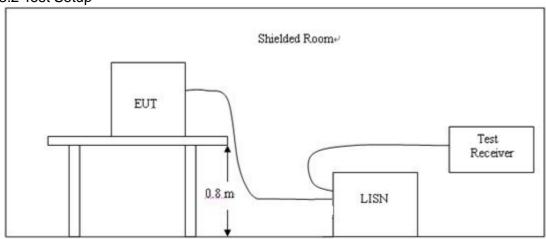
3.1 Conducted Power Line Emission Limit

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

F	M	Maximum RF Line Voltage (dBμV)						
Frequency (MHz)	CLAS	SS A		CLASS B				
(11112)	Q.P.	Ave.	Q.P.	Ave.				
0.15 - 0.50	79	66	66-56*	56-46*				
0.50 - 5.00	73	60	56	46				
5.00 - 30.0	73	60	60	50				

^{*} Decreasing linearly with the logarithm of the frequency
For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2 Test Setup



3.3 Test Procedure

- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user'smanual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed onthe ground plane as per ANSI C63.10.
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4,If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hzpower through a Line Impedance Stabilization Network (LISN) which supplied power source and wasgrounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- 6, The EUT test program was started. Emissions were measured on each current carrying line of the EUTusing a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has twomonitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7, Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

3.4 Test Result

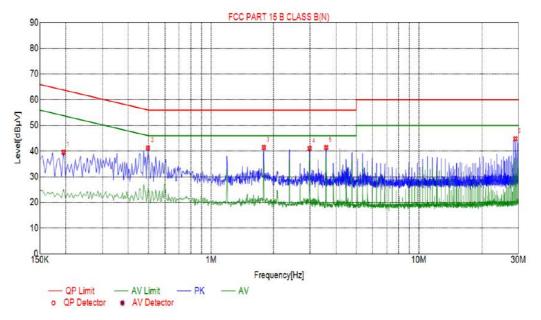
PASS

All the test modes completed for test.



Test Specification: Line

Test Graph



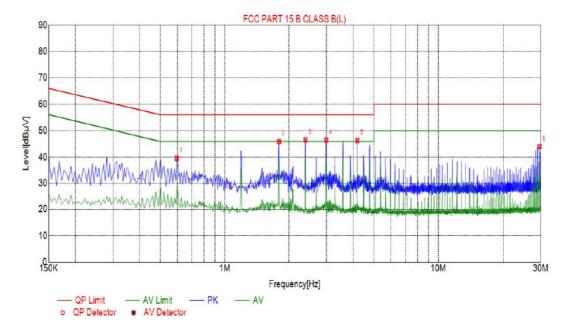
Suspected List									
NO.	Freq.	Level [dBµV]	Factor [dB]	Limit [dBµ∀]	Margin [dB]	Detector			
1	0.1950	39.56	10.03	63.82	24.26	PK			
2	0.4965	41.20	10.04	56.06	14.86	PK			
3	1.7925	41.41	10.14	56.00	14.59	PK			
4	2.9850	41.06	10.22	56.00	14.94	PK			
5	3.5835	41.40	10.25	56.00	14.60	PK			
6	28.9815	44.83	10.26	60.00	15.17	PK			

Remark: Transd = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level



Test Specification: Neutral

Test Graph



Suspected List										
NO.	Freq.	Level [dBµV]	Factor [dB]	Limit [dBµ∀]	Margin [dB]	Detector				
1	0.5955	39.51	10.05	56.00	16.49	PK				
2	1.7925	45.92	10.14	56.00	10.08	PK				
3	2.3910	46.65	10.18	56.00	9.35	PK				
4	2.9895	46.56	10.22	56.00	9.44	PK				
5	4.1820	46.41	10.25	56.00	9.59	PK				
6	29.5845	44.00	10.26	60.00	16.00	PK				

Remark: Transd = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level



4 RADIATED EMISSION TEST

4.1 Radiation Limit

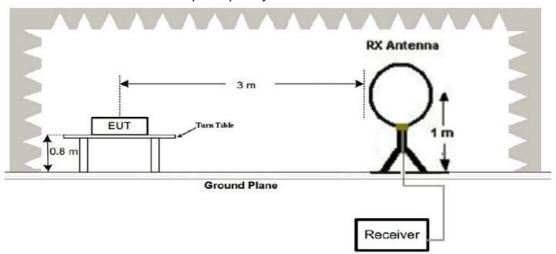
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength ofradiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (µV/m)	
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

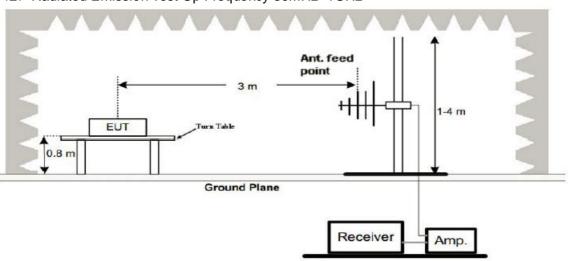
For intentional device, according to § 15.209(a), the general requirement of field strength of radiatedemissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2 Test Setup

(1) Radiated Emission Test-Up Frequency Below 30MHz

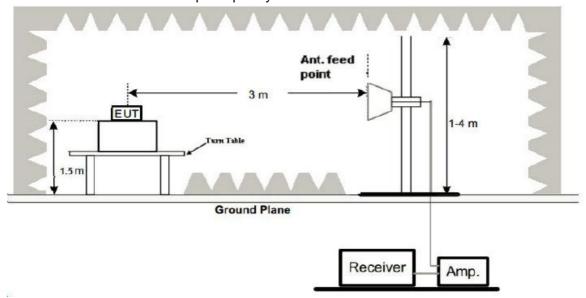


(2) Radiated Emission Test-Up Frequency 30MHz~1GHz





(3) Radiated Emission Test-Up Frequency Above 1GHz



4.3 Test Procedure

- 1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highestemissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna bothhorizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

Note

For battery operated equipment, the equipment tests shall be performed using a new battery.

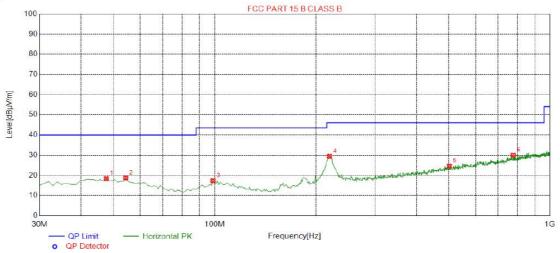
4.4 Test Result

PASS

All the test modes completed for test. The worst case of Radiated Emission is CH 2402; the test data of this mode was reported.

Below 1GHz Test Results: Antenna polarity: H





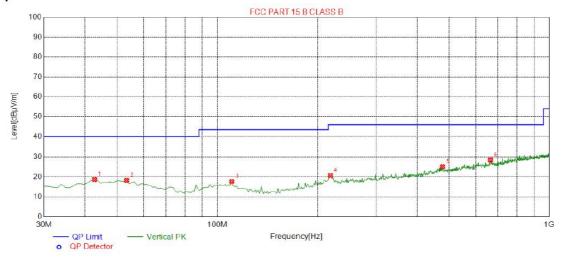
Suspected List

Suspected List									
NO	Freq.	Level	Factor	Limit	Margin	Height	Angle	Dolority	
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	47.4600	18.39	-13.65	40.00	21.61	100	174	Horizontal	
2	54.2500	18.69	-14.29	40.00	21.31	100	167	Horizontal	
3	98.8700	17.34	-15.59	43.50	26.16	100	182	Horizontal	
4	220.120	29.43	-14.56	46.00	16.57	100	350	Horizontal	
5	500.450	24.62	-8.29	46.00	21.38	100	237	Horizontal	
6	776.900	30.02	-3.26	46.00	15.98	100	27	Horizontal	

Final Data List

Remark: Transd = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level

Test Graph



Suspected List

Susp	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	42.6100	18.65	-14.08	40.00	21.35	100	243	Vertical		
2	53.2800	18.24	-14.15	40.00	21.76	100	243	Vertical		
3	110.510	17.69	-15.52	43.50	25.81	100	258	Vertical		
4	219.150	20.67	-14.58	46.00	25.33	100	51	Vertical		
5	477.170	25.07	-8.42	46.00	20.93	100	328	Vertical		
6	665.350	28.41	-4.85	46.00	17.59	100	118	Vertical		

Final Data List

Remark: Transd = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit - Level

Remark:

- (1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHzwas verified, and no any emission was found except system noise floor.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.



CH Low (2402MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin				
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type			
2402	103.25	-5.81	97.44	114.00	-16.56	peak			
2402	83.62	-5.81	77.81	94.00	-16.19	AVG			
4804	56.31	-3.65	52.66	74.00	-21.34	peak			
4804	46.28	-3.65	42.63	54.00	-11.37	AVG			
7206	56.92	-0.95	55.97	74.00	-18.03	peak			
7206	39.76	-0.95	38.81	54.00	-15.19	AVG			
				1					
Remark: Facto	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.								

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2402	102.74	-5.81	96.93	114.00	-17.07	peak
2402	84.62	-5.81	78.81	94.00	-15.19	AVG
4804	58.91	-3.65	55.26	74.00	-18.74	peak
4804	41.29	-3.65	37.64	54.00	-16.36	AVG
7206	58.67	-0.95	57.72	74.00	-16.28	peak
7206	42.21	-0.95	41.26	54.00	-12.74	AVG
Remark: Facto	emark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.					



CH Middle (2441MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastan
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2441.00	101.23	-5.73	95.50	114.00	-18.50	peak
2441.00	86.16	-5.73	80.43	94.00	-13.57	AVG
4882.00	59.48	-3.54	55.94	74.00	-18.06	peak
4882.00	42.15	-3.54	38.61	54.00	-15.39	AVG
7323.00	56.48	-0.81	55.67	74.00	-18.33	peak
7323.00	38.91	-0.81	38.10	54.00	-15.90	AVG
Remark: Facto	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.					

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastas
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2441.00	102.19	-5.73	96.46	114.00	-17.54	peak
2441.00	85.73	-5.73	80.00	94.00	-14.00	AVG
4882.00	58.94	-3.54	55.40	74.00	-18.60	peak
4882.00	41.28	-3.54	37.74	54.00	-16.26	AVG
7323.00	56.34	-0.81	55.53	74.00	-18.47	peak
7323.00	40.73	-0.81	39.92	54.00	-14.08	AVG
Remark: Facto	emark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.					



CH High (2480MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2480	102.51	-5.63	96.88	114.00	-17.12	peak
2480	86.74	-5.63	81.11	94.00	-12.89	AVG
4960	59.31	-3.43	55.88	74.00	-18.12	peak
4960	46.38	-3.44	42.94	54.00	-11.06	AVG
7440	53.74	-0.77	52.97	74.00	-21.03	peak
7440	40.35	-0.77	39.58	54.00	-14.42	AVG
Remark: Facto	Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.					

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastan
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2480	102.22	-5.63	96.59	114.00	-17.41	peak
2480	86.34	-5.63	80.71	94.00	-13.29	AVG
4960	54.71	-3.43	51.28	74.00	-22.72	peak
4960	43.33	-3.44	39.89	54.00	-14.11	AVG
7440	52.15	-0.77	51.38	74.00	-22.62	peak
7440	38.96	-0.77	38.19	54.00	-15.81	AVG
Remark: Facto	temark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.					



Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz •
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Data of measurement within this frequency range shown "--- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHzand video bandwidth is 3MHz for peak measurement with peak detectorat frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHzand video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
- (7)All modes of operation were investigated and the worst-case emissions are reported.



5 BAND EDGE

5.1 Limits

FCC PART 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emissionlimits in §15.209, whichever is the lesser attenuation.

5.2 Test Procedure

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSIC63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT issituated in three orthogonal planes (if appropriate), adjusting the measurement antenna height andpolarization etc. Set RBW to 100KHz and VBM to 300KHz to measure the peak field strength and setRBW to 1MHz and VBW to 10Hz to measure the average radiated field strength. The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW to 100 KHz and VBW to 300 KHz, to measure the conducted peak band edge.

5.3 Test Result

PASS

Radiated Band Edge Test:

Operation Mode: TX CH Low (2402MHz)

Horizontal (Worst case)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310	52.17	-5.78	46.39	74	-27.61	peak
2310	/	-5.78	/	54	/	AVG
2390	53.6	-5.81	47.79	74	-26.21	peak
2390	/	-5.81	/	54	/	AVG
2400	52.8	-5.84	46.96	74	-27.04	peak
2400	/	-5.84	/	54	/	AVG
	Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.					

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	
2310	53.18	-5.78	47.4	74	-26.6	peak	
2310	/	-5.78	/	54	/	AVG	
2390	54.16	-5.81	48.35	74	-25.65	peak	
2390	/	-5.81	/	54	/	AVG	
2400	53.97	-5.84	48.13	74	-25.87	peak	
2400	/	-5.84	/	54	/	AVG	
Remark: Facto	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High (2480MHz)

Horizontal (Worst case)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
2483.5	52.46	-5.65	46.81	74	-27.19	peak
2483.5	/	-5.65	/	54	/	AVG
2500	51.02	-5.21	45.81	74	-28.19	peak
2500	/	-5.21	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
2483.5	52.18	-5.65	46.53	74	-27.47	peak
2483.5	/	-5.65	/	54	/	AVG
2500	51.18	-5.21	45.97	74	-28.03	peak
2500	/	-5.21	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC



6 OCCUPIED BANDWIDTH MEASUREMENT

6.1 Test Setup

Same as Radiated Emission Measurement

6.2 Test Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation.
- 3. Based on ANSI C63.10 section 6.9.2: RBW= 30KHz. VBW= 100 KHz, Span=2MHz.
- 4. The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

6.3 Measurement Equipment Used

Same as Radiated Emission Measurement

6.4 Test Result

PASS

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	0.831	PASS
2441 MHz	0.825	PASS
2480 MHz	0.833	PASS

CH: 2402MHz



CH: 2441MHz



CH: 2480MHz





Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed toensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.249, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

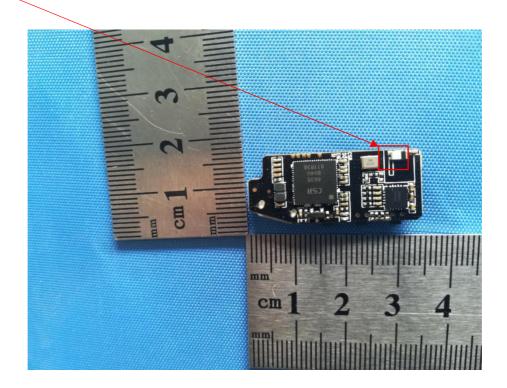
Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of astandard antenna jack or electrical connector is prohibited. Further, this requirement does not apply tointentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a CHIP Antenna, The directional gains of antenna used for transmitting is 0.8dBi.

ANTENNA





8.1Radiated Emission







8.2Conducted Emission





EUT















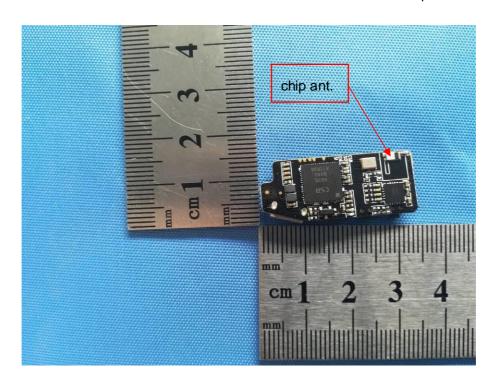


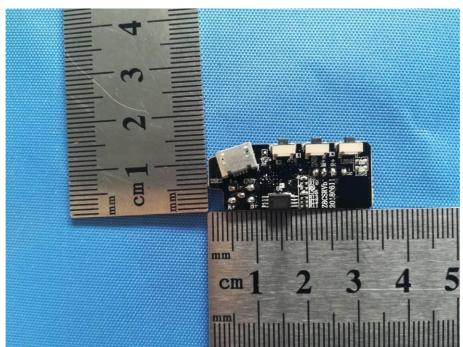




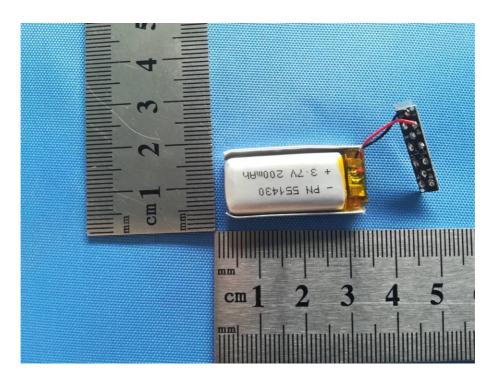


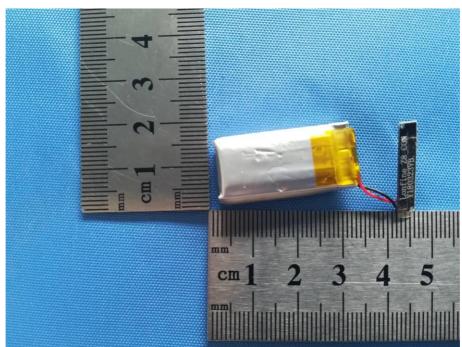






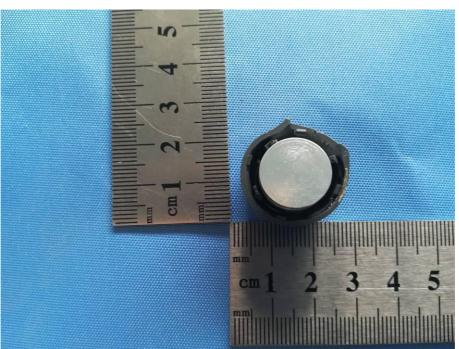












-----End of Report-----