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Report No.: EBO1606059-E214

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FCC REPORT

Applicant: SHENZHEN NEW TENTHINK TECHNOLOGY CO.,LTD

Address of Applicant: 4th Floor, Building 2, Huaxing Road 35, Yujingtai Industrial Park,

Dalang, Longhua District, Shenzhen

Equipment Under Test (EUT)

Product Name: BLUETOOTH EARPHONE

Trade Mark: ipipoo

Model No.: iP-A20BL, iP-A30BL, iP-A50BL, iL60BL, iL70BL, iL80BL,

iL90BL

FCC ID: 2AIUG-A20BL

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249:2015

Date of sample receipt: June 20, 2016

Date of Test: June 20, 2016 To June 30, 2016

Date of report issued: June 30, 2016

Test Result: PASS *

Authorized Signature:

Kevin Yu Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the EBO product certification mark. 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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^{*} In the configuration tested, the EUT complied with the standards specified above.



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2 Version

Version No.	Date	Description
00	June 30, 2016	Original

Prepared By:	Jason	Date:	June 30, 2016	
	Project Engineer			
Check By:	Congr	Date:	June 30, 2016	
	Reviewer			



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.4 2014 and ANSI C63.10 2013.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.



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5 General Information

5.1 Client Information

Applicant:	SHENZHEN NEW TENTHINK TECHNOLOGY CO.,LTD		
Address of Applicant:	4 th Floor, Building 2, Huaxing Road 35, Yujingtai Industrial Park, Dalang,		
	Longhua District, Shenzhen		
Manufacturer:	SHENZHEN NEW TENTHINK TECHNOLOGY CO.,LTD		
Address of Manufacturer:	4 th Floor, Building 2, Huaxing Road 35, Yujingtai Industrial Park, Dalang,		
	Longhua District, Shenzhen		

5.2 General Description of EUT

Product Name:	BLUETOOTH EARPHONE
Trade Mark:	ipipoo
Model No.:	iP-A20BL, iP-A30BL, iP-A50BL, iL60BL, iL70BL, iL80BL, iL90BL
Test Model No.:	iP-A20BL
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, Pi/4QPSK, 8DPSK
Antenna Type:	PCB Antenna
Antenna gain:	0dBi (declare by Applicant)
Power supply:	DC 5.0V (by USB port) or 3.7V 55mAh lithium battery



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Operation	Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz	
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz	
i	i							
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz	
20	2421MHz	40	2441MHz	60	2461MHz			

Note:

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

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz



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5.3 Test mode

Transmitting mode Keep the Bluetooth in continuously transmitting mode

Remark: 1.During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

2. Worst case GFSK modulation

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	X	Υ	Z
Field Strength(dBuV/m)	95.52	99.21	93.89

Final Test Mode:

According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup":

Y axis (see the test setup photo)

5.4 Description of Support Units

None.

5.5 Test Facility

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

FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

5.7 Other Information Requested by the Customer

None.

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6 Test Instruments list

Radiated Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 27 2016	Mar. 26 2017	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 30 2015	June 29 2016	
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 30 2015	June 29 2016	
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 30 2015	June 29 2016	
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2016	Mar. 26 2017	
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
8	Coaxial Cable	GTS	N/A	GTS213	Mar. 27 2016	Mar. 26 2017	
9	Coaxial Cable	GTS	N/A	GTS211	Mar. 27 2016	Mar. 26 2017	
10	Coaxial cable	GTS	N/A	GTS210	Mar. 27 2016	Mar. 26 2017	
11	Coaxial Cable	GTS	N/A	GTS212	Mar. 27 2016	Mar. 26 2017	
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 30 2015	June 29 2016	
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 30 2015	June 29 2016	
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 30 2015	June 29 2016	
15	Band filter	Amindeon	82346	GTS219	Mar. 27 2016	Mar. 26 2017	
16	Constant temperature and humidity box	Oregon Scientific	BA-888	GTS248	June 30 2015	June 29 2016	
17	D.C. Power Supply	Instek	PS-3030	GTS232	June 30 2015	June 29 2016	



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Cond	Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	June 30 2015	June 29 2016	
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	June 30 2015	June 29 2016	
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	June 30 2015	June 29 2016	
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 30 2015	June 29 2016	
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	June 30 2015	June 29 2016	
6	Coaxial Cable	GTS	N/A	GTS227	June 30 2015	June 29 2016	
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	



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7 Test results and Measurement Data

7.1 Antenna requirement:

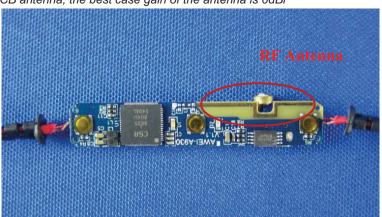
Standard requirement: FCC Part15 C Section 15.203

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used 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 can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

E.U.T Antenna:

The antenna is PCB antenna, the best case gain of the antenna is 0dBi





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7.2 Conducted Emissions

	Test Requirement:	FCC Part15 C Section 15.207								
	Test Method:	ANSI C63.10:2013								
	Test Frequency Range:	150KHz to 30MHz								
	Class / Severity:	Class B								
	Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto							
	Limit:	[[[] [] [] [] [] [] [] [] []	Limit (c	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 logarithm of the frequency.								
	Test setup:	Reference Plane LISN AUX Equipment Test table/Insulation plane Receiver Test table height=0 8m 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.								
	Test procedure:									
	rest procedure.									
	Test Instruments:	Refer to section 6.0 for details								
	Test mode:	Refer to section 5.3 for details								
	Test results:	Pass								
D		and old inspiran with ECC DOC								

Remark: AUX EUT is DELL PC model inspiron with FCC DOC approved

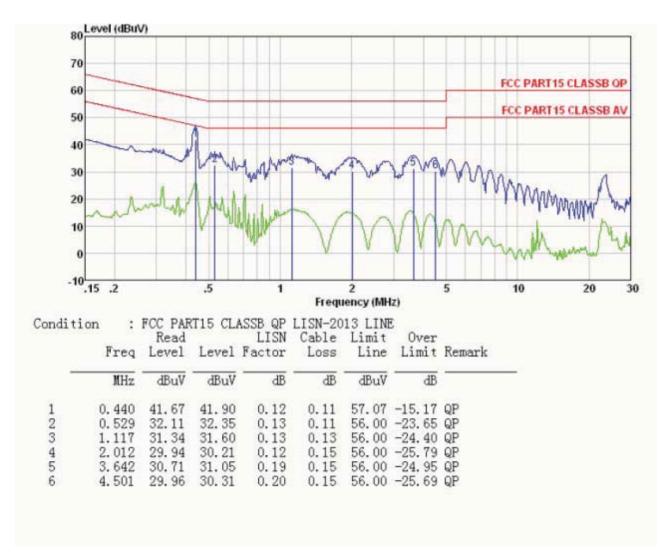
Measurement data:



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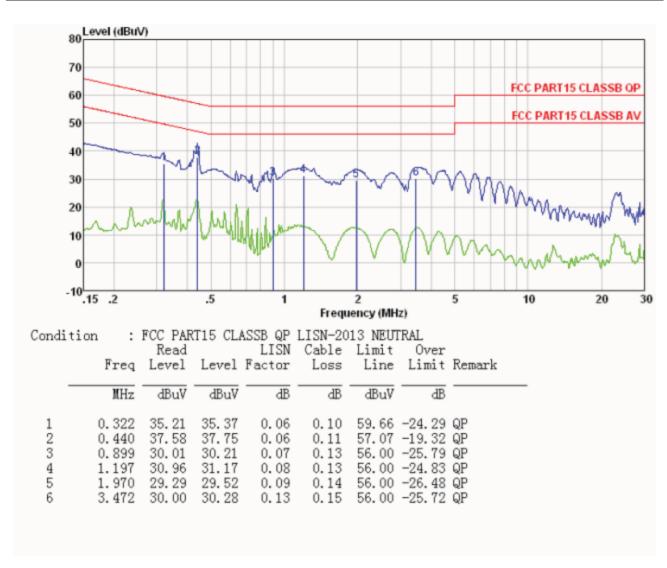
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Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



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7.3 Radiated Emission Method

1.5 Radiated Lillission Me	Natiated Emission Method									
Test Requirement:	FCC Part15 C Section 15.209									
Test Method:	ANSI C63.10:20	013								
Test Frequency Range:	30MHz to 25GH	ŀz								
Test site:	Measurement D	Distance: 3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Remark					
	30MHz- 1GHz	Quasi-peal	120KHz	300KHz	Quasi-peak Value					
	Above 1011-	Peak	1MHz	3MHz	Peak Value					
	Above 1GHz	Peak	1MHz	10Hz	Average Value					
Limit:	Freque	ency	/m @3m)	Remark						
(Field strength of the	2400MHz-24	183 5MHz	94.0		Average Value					
fundamental signal)	2400MHz-2483.5MHz									
Limit:	Frequency Limit (dBuV/m @3m) Remark									
(Spurious Emissions)	30MHz-88MHz 40.00 Quasi-peak Val									
,		88MHz-216MHz 43.50 Qu								
	216MHz-9		0	Quasi-peak Value Quasi-peak Value						
	960MHz-	960MHz-1GHz 54.00								
	Above 1	IGHz	54.0 74.0		Average Value Peak Value					
(band edge)		to the genera	al radiated emi		w the level of the in Section 15.209,					
Test setup:	EUT	4m 4m 0.8m		Anten Sea Ante RF Test Receiver	enna					



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	Antenna Tower Horn Antenna Spectrum Analyzer Turn Table 1.5 m Amplifier
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8* ineters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.*: 1.5m for above 1GHz 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 antenna height 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. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement data:



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7.3.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	94.43	27.58	5.39	30.18	97.22	114.00	-16.78	Vertical
2402.00	93.31	27.58	5.39	30.18	96.10	114.00	-17.90	Horizontal
2441.00	93.56	27.55	5.43	30.06	96.48	114.00	-17.52	Vertical
2441.00	91.26	27.55	5.43	30.06	94.18	114.00	-19.82	Horizontal
2480.00	96.15	27.52	5.47	29.93	99.21	114.00	-14.79	Vertical
2480.00	93.49	27.52	5.47	29.93	96.55	114.00	-17.45	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
2402.00	84.29	27.58	5.39	30.18	87.08	94.00	-6.92	Vertical			
2402.00	81.96	27.58	5.39	30.18	84.75	94.00	-9.25	Horizontal			
2441.00	82.79	27.55	5.43	30.06	85.71	94.00	-8.29	Vertical			
2441.00	79.38	27.55	5.43	30.06	82.30	94.00	-11.70	Horizontal			
2480.00	85.27	27.52	5.47	29.93	88.33	94.00	-5.67	Vertical			
2480.00	82.34	27.52	5.47	29.93	85.40	94.00	-8.60	Horizontal			



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7.3.2 Spurious emissions

■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
42.30	26.88	15.57	0.69	30.03	13.11	40.00	-26.90	Vertical
97.12	25.27	14.97	1.17	29.71	11.70	43.50	-31.80	Vertical
210.05	25.40	12.87	1.90	29.30	10.87	43.50	-32.64	Vertical
419.11	26.57	17.43	2.94	29.46	17.48	46.00	-28.53	Vertical
696.86	25.35	20.80	4.08	29.20	21.03	46.00	-24.98	Vertical
893.86	25.72	23.05	4.83	29.10	24.50	46.00	-21.51	Vertical
39.02	26.13	15.34	0.65	30.05	12.07	40.00	-27.94	Horizontal
61.35	24.74	14.16	0.87	29.91	9.86	40.00	-30.14	Horizontal
101.64	24.29	15.02	1.21	29.69	10.83	43.50	-32.68	Horizontal
222.17	23.99	13.25	1.97	29.41	9.80	46.00	-36.20	Horizontal
404.67	24.61	17.18	2.88	29.49	15.18	46.00	-30.82	Horizontal
768.75	25.19	21.68	4.35	29.20	22.02	46.00	-23.99	Horizontal



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Above 1GHz

Test channel: Lowest channel

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	40.29	31.78	8.60	32.09	48.58	74.00	-25.42	Vertical
7206.00	35.01	36.15	11.65	32.00	50.81	74.00	-23.19	Vertical
9608.00	34.30	37.95	14.14	31.62	54.77	74.00	-19.23	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	45.44	31.78	8.60	32.09	53.73	74.00	-20.27	Horizontal
7206.00	36.85	36.15	11.65	32.00	52.65	74.00	-21.35	Horizontal
9608.00	33.93	37.95	14.14	31.62	54.40	74.00	-19.60	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					74.00		Horizontal

Average value:

7ttorago tar								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.90	31.78	8.60	32.09	37.19	54.00	-16.81	Vertical
7206.00	23.29	36.15	11.65	32.00	39.09	54.00	-14.91	Vertical
9608.00	21.82	37.95	14.14	31.62	42.29	54.00	-11.71	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	33.12	31.78	8.60	32.09	41.41	54.00	-12.59	Horizontal
7206.00	25.50	36.15	11.65	32.00	41.30	54.00	-12.70	Horizontal
9608.00	21.76	37.95	14.14	31.62	42.23	54.00	-11.77	Horizontal
12010.00	*					54.00		Horizontal
14412.00	*					54.00		Horizontal

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. "*", means this data is the too weak instrument of signal is unable to test.



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Test channel: Middle channel

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	37.87	31.85	8.67	32.12	46.27	74.00	-27.73	Vertical
7323.00	32.47	36.37	11.72	31.89	48.67	74.00	-25.33	Vertical
9764.00	32.03	38.35	14.25	31.62	53.01	74.00	-20.99	Vertical
12205.00	*					74.00		Vertical
14646.00	*					74.00		Vertical
4882.00	41.64	31.85	8.67	32.12	50.04	74.00	-23.96	Horizontal
7323.00	33.80	36.37	11.72	31.89	50.00	74.00	-24.00	Horizontal
9764.00	31.11	38.35	14.25	31.62	52.09	74.00	-21.91	Horizontal
12205.00	*					74.00		Horizontal
14646.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	26.07	31.85	8.67	32.12	34.47	54.00	-19.53	Vertical
7323.00	21.05	36.37	11.72	31.89	37.25	54.00	-16.75	Vertical
9764.00	20.18	38.35	14.25	31.62	41.16	54.00	-12.84	Vertical
12205.00	*					54.00		Vertical
14646.00	*					54.00		Vertical
4882.00	30.10	31.85	8.67	32.12	38.50	54.00	-15.50	Horizontal
7323.00	23.07	36.37	11.72	31.89	39.27	54.00	-14.73	Horizontal
9764.00	19.56	38.35	14.25	31.62	40.54	54.00	-13.46	Horizontal
12205.00	*					54.00		Horizontal
14646.00	*					54.00		Horizontal

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. "*", means this data is the too weak instrument of signal is unable to test.



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Test channel: Highest channel

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	36.33	31.93	8.73	32.16	44.83	74.00	-29.17	Vertical
7440.00	31.62	36.59	11.79	31.78	48.22	74.00	-25.78	Vertical
9920.00	31.40	38.81	14.38	31.88	52.71	74.00	-21.29	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	40.10	31.93	8.73	32.16	48.60	74.00	-25.40	Horizontal
7440.00	33.24	36.59	11.79	31.78	49.84	74.00	-24.16	Horizontal
9920.00	30.56	38.81	14.38	31.88	51.87	74.00	-22.13	Horizontal
12400.00	*					74.00		Horizontal
14880.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	25.44	31.93	8.73	32.16	33.94	54.00	-20.06	Vertical
7440.00	20.34	36.59	11.79	31.78	36.94	54.00	-17.06	Vertical
9920.00	19.38	38.81	14.38	31.88	40.69	54.00	-13.31	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	29.32	31.93	8.73	32.16	37.82	54.00	-16.18	Horizontal
7440.00	22.46	36.59	11.79	31.78	39.06	54.00	-14.94	Horizontal
9920.00	18.99	38.81	14.38	31.88	40.30	54.00	-13.70	Horizontal
12400.00	*					54.00		Horizontal
14880.00	*					54.00		Horizontal

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. "*", means this data is the too weak instrument of signal is unable to test.



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7.3.3 Bandedge emissions

All of the restriction bands were tested, and only the data of worst case was exhibited.

Test channel:	Lowest channel

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	45.01	27.59	5.38	30.18	47.80	74.00	-26.20	Horizontal
2400.00	61.48	27.58	5.39	30.18	64.27	74.00	-9.73	Horizontal
2390.00	45.56	27.59	5.38	30.18	48.35	74.00	-25.65	Vertical
2400.00	63.63	27.58	5.39	30.18	66.42	74.00	-7.58	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	35.31	27.59	5.38	30.18	38.10	54.00	-15.90	Horizontal
2400.00	46.90	27.58	5.39	30.18	49.69	54.00	-4.31	Horizontal
2390.00	35.18	27.59	5.38	30.18	37.97	54.00	-16.03	Vertical
2400.00	48.23	27.58	5.39	30.18	51.02	54.00	-2.98	Vertical

- 1		1
- 1	-	
- 1	Lact channal:	i Highaet channal
- 1	Test channel:	l Highest channel
- 1		1

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	46.85	27.53	5.47	29.93	49.92	74.00	-24.08	Horizontal
2500.00	46.04	27.55	5.49	29.93	49.15	74.00	-24.85	Horizontal
2483.50	48.26	27.53	5.47	29.93	51.33	74.00	-22.67	Vertical
2500.00	47.41	27.55	5.49	29.93	50.52	74.00	-23.48	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	38.16	27.53	5.47	29.93	41.23	54.00	-12.77	Horizontal
2500.00	36.32	27.55	5.49	29.93	39.43	54.00	-14.57	Horizontal
2483.50	39.62	27.53	5.47	29.93	42.69	54.00	-11.31	Vertical
2500.00	36.47	27.55	5.49	29.93	39.58	54.00	-14.42	Vertical

Remark:

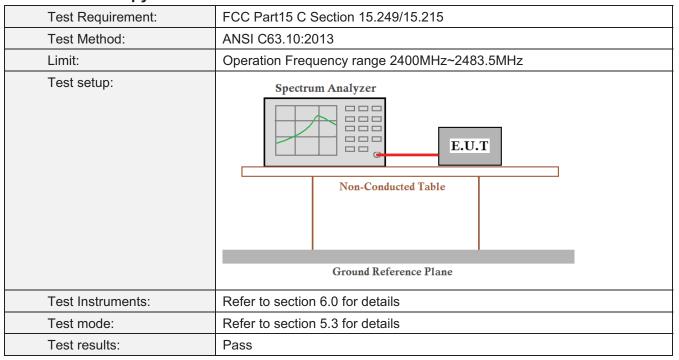
1. Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor



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7.4 20dB Occupy Bandwidth



Measurement Data

Measurement Data

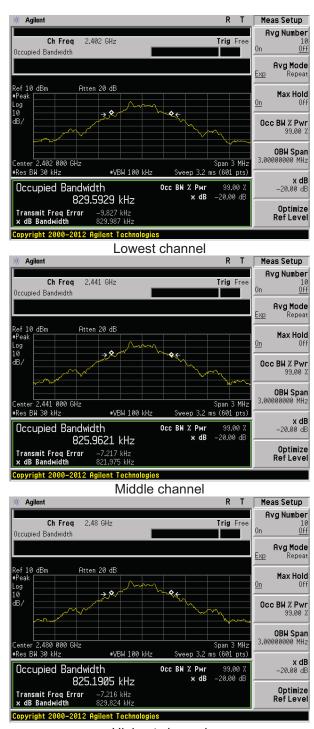
Test channel	20dB bandwidth(MHz)	Result
Lowest	0.830	Pass
Middle	0.822	Pass
Highest	0.830	Pass

Test plot as follows:



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Highest channel

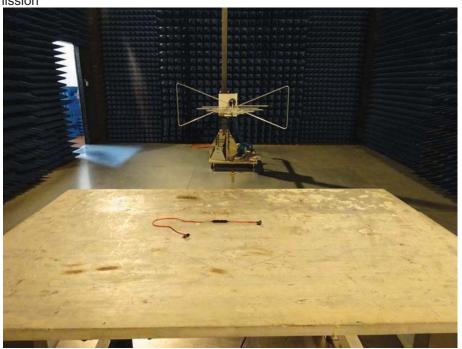


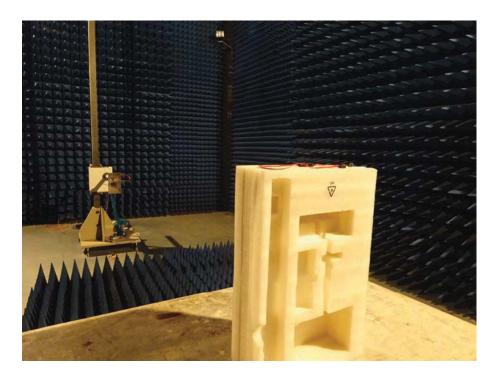
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8 Test Setup Photo

Radiated Emission







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Conducted Emission

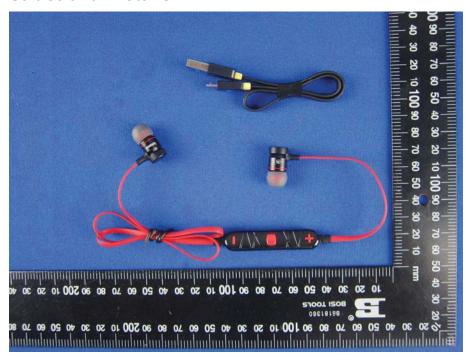


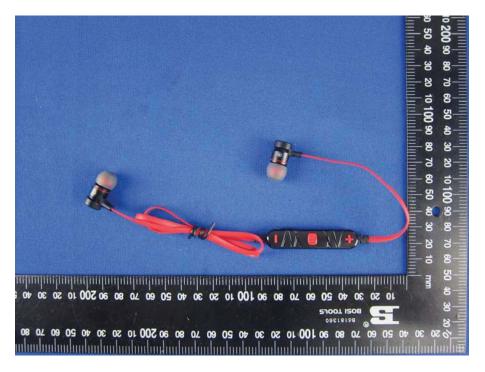


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9 EUT Constructional Details

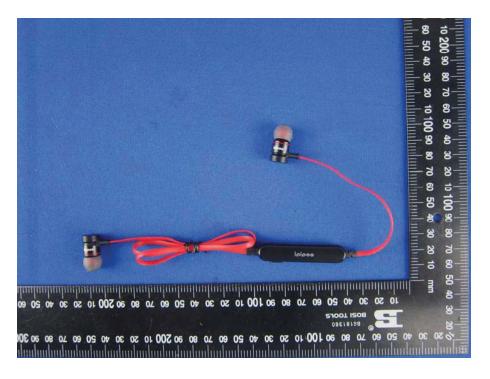


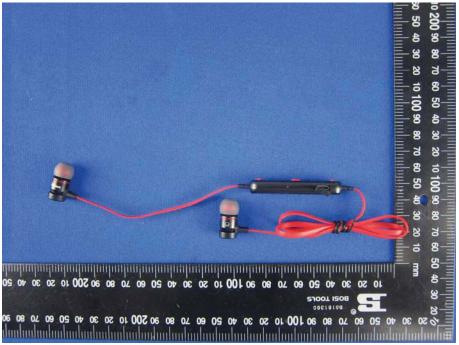




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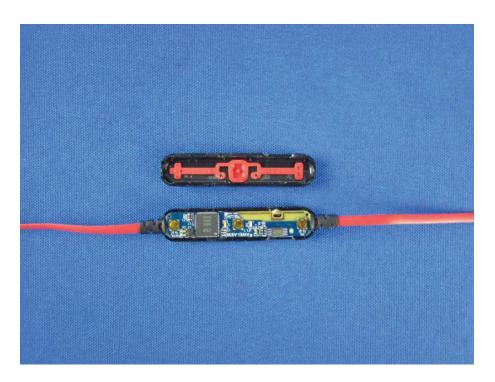


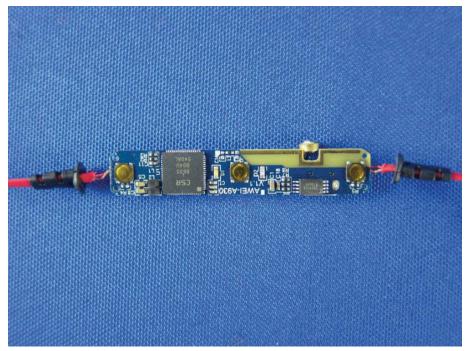




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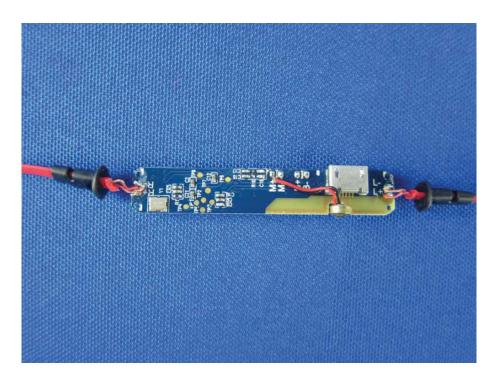


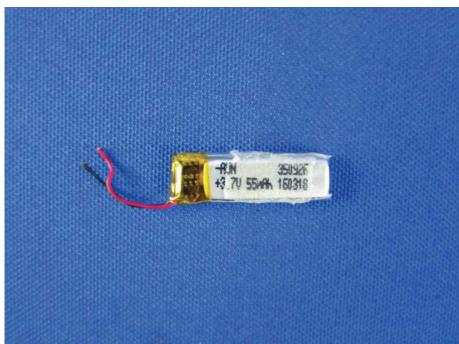




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