

FCC REPORT

Applicant: Shenzhen Bada Sheng Electronic Co., Ltd.

Address of Applicant: Blk 12 Foodstuff Ind Park , Songyuan Village, Guanlan Town, Shenzhen, China

Equipment Under Test (EUT)

Product Name: 5.8GHz Optical Wireless Headset

Model No.: BDS-888W

FCC ID: ODC-BDS888W

Applicable standards: FCC CFR Title 47 Part 15.249:2016

Date of sample receipt: September 08, 2016

Date of Test: September 09-21, 2016

Date of report issued: September 22, 2016

Test Result : PASS *

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

Authorized Signature:

A circular logo for GTS (Global United Technology Services Co., Ltd.) is overlaid with a handwritten signature in black ink. The logo contains the text 'GTS' in the center, 'GLOBAL UNITED TECHNOLOGY SERVICES CO., LTD.' around the perimeter, and 'WIRELESS TESTING' at the bottom.

Robinson Lo

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 GTS 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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2 Version

Version No.	Date	Description
00	September 22, 2016	Original

Prepared By: Tiger Chen **Date:** September 22, 2016
Project Engineer

Check By: Andy wa **Date:** September 22, 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 C63.10 2013 and ANSI C63.4 2014.

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%.

5 General Information

5.1 Client Information

Applicant:	Shenzhen Bada Sheng Electronic Co., Ltd.
Address of Applicant:	Blk 12 Foodstuff Ind Park , Songyuan Village, Guanlan Town, Shenzhen, China
Manufacturer:	Shenzhen Bada Sheng Electronic Co., Ltd.
Address of Manufacturer:	Blk 12 Foodstuff Ind Park , Songyuan Village, Guanlan Town, Shenzhen, China

5.2 General Description of EUT

Product Name:	5.8GHz Optical Wireless Headset
Model No.:	BDS-888W
Operation Frequency:	5730MHz~5803MHz
Channel numbers:	68
Modulation type:	GFSK
Antenna Type:	Ceramic Antenna
Antenna gain:	0dBi (declare by Applicant)
Power supply:	DC 3.7V 1100mAh Li-ion Battery

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	5730	18	5749	35	5767	52	5786
2	5731	19	5750	36	5768	53	5787
3	5732	20	5751	37	5769	54	5788
4	5733	21	5752	38	5770	55	5789
5	5734	22	5753	39	5771	56	5790
6	5735	23	5754	40	5773	57	5791
7	5737	24	5755	41	5774	58	5792
8	5738	25	5756	42	5775	59	5793
9	5739	26	5757	43	5776	60	5794
10	5740	27	5758	44	5777	61	5795
11	5741	28	5759	45	5778	62	5797
12	5742	29	5761	46	5779	63	5798
13	5743	30	5762	47	5780	64	5799
14	5744	31	5763	48	5781	65	5800
15	5745	32	5764	49	5782	66	5801
16	5746	33	5765	50	5783	67	5802
17	5747	34	5766	51	5785	68	5803

Note:

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

Channel	Frequency
The lowest channel	5730 MHz
The Highest channel	5763 MHz
The Highest channel	5803 MHz

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>Remark: 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.</i>	

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	Y	Z
Field Strength(dBuV/m)	89.85	93.59	90.73

5.4 Description of Support Units

None.

5.5 Test Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> • FCC —Registration No.: 600491 Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 22, 2016. • 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, August 15, 2016.

5.6 Test Location

All tests were performed at:
<p>Global United Technology Services Co., Ltd. Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960</p>

5.7 Description of Support Units

None.

5.8 Other Information Requested by the Customer

None.

6 Test Instruments list

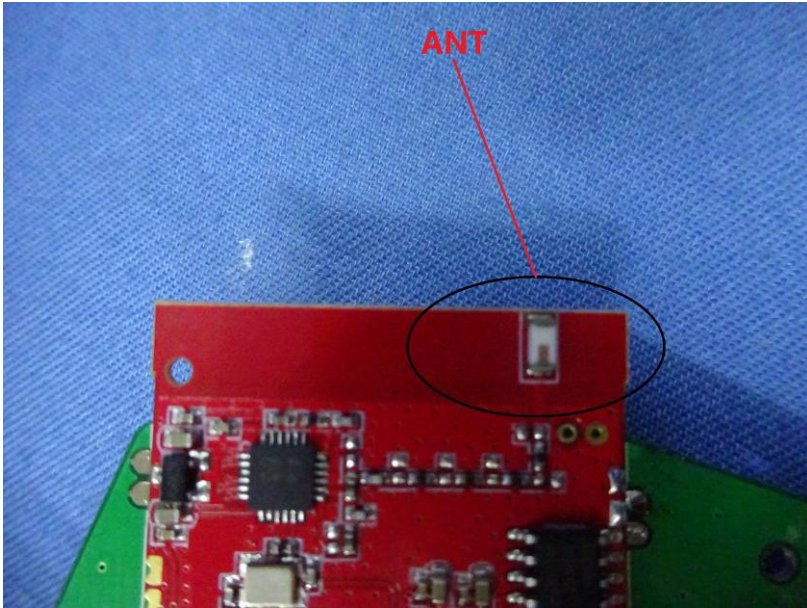
Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.0(L)*6.0(W)* 6.0(H)	GTS250	July. 03 2015	July. 02 2020
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	ESU EMI Test Receiver	R&S	ESU26	GTS203	June. 29 2016	June. 28 2017
4	BiConiLog Antenna	SCHWARZBECK	VULB9163	GTS214	June. 29 2016	June. 28 2017
5	Double-ridged horn antenna	SCHWARZBECK	9120D	GTS208	June. 29 2016	June. 28 2017
6	Horn Antenna	ETS-LINDGREN	3160-09	GTS218	June. 29 2016	June. 28 2017
7	RF Amplifier	HP	8347A	GTS204	June. 29 2016	June. 28 2017
8	RF Amplifier	HP	8349B	GTS206	June. 29 2016	June. 28 2017
9	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	June. 29 2016	June. 28 2017
10	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	June. 29 2016	June. 28 2017
11	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
12	Coaxial Cable	GTS	N/A	GTS210	June. 29 2016	June. 28 2017
13	Coaxial Cable	GTS	N/A	GTS211	June. 29 2016	June. 28 2017
14	Coaxial Cable	GTS	N/A	GTS213	June. 29 2016	June. 28 2017
15	Coaxial Cable	GTS	N/A	GTS212	June. 29 2016	June. 28 2017
16	Thermo meter	N/A	N/A	GTS256	June. 29 2016	June. 28 2017
17	D.C. Power Supply	Instek	PS-3030	GTS232	June. 29 2016	June. 28 2017
18	Power Meter	Anritsu	ML2495A	GTS540	June 29 2016	June 28 2017
19	Power Sensor	Anritsu	MA2411B	GTS541	June 29 2016	June 28 2017

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	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 29 2016	June. 28 2017
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 29 2016	June. 28 2017
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 29 2016	June. 28 2017
5	Coaxial Cable	GTS	N/A	GTS227	June. 29 2016	June. 28 2017
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June. 29 2016	June. 28 2017
8	10dB Pulse Limiter	Rohde & Schwarz	N/A	GTS224	June. 29 2016	June. 28 2017

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	June 29 2016	June 28 2017

7 Test results and Measurement Data

7.1 Antenna requirement

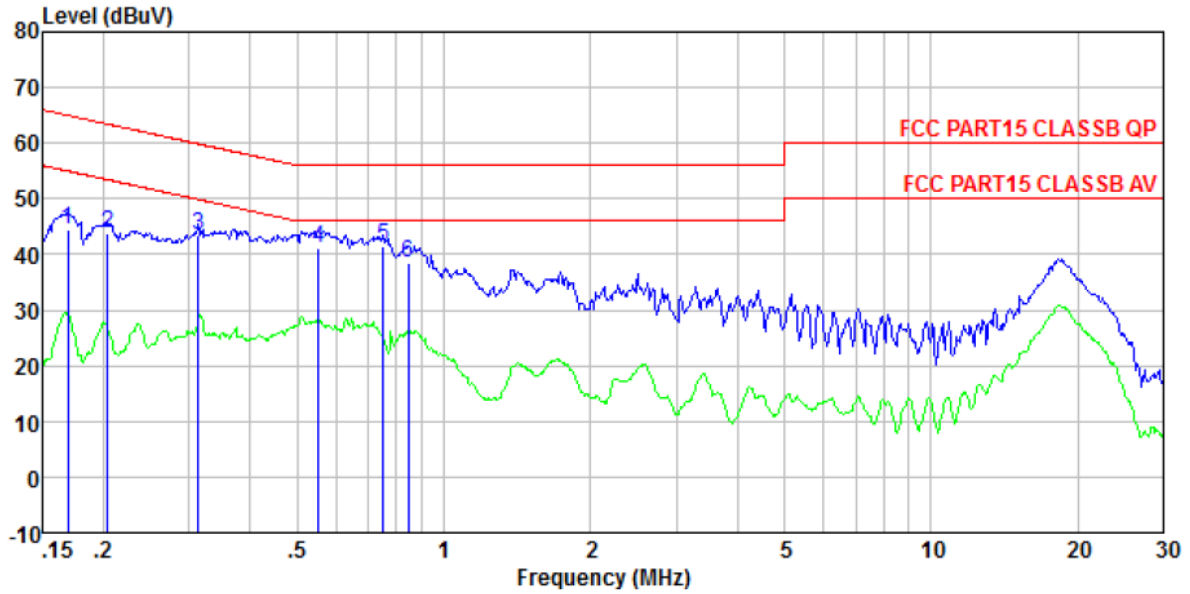
Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling 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.	
EUT Antenna: <i>The antenna is Ceramic antenna, the best case gain of the antenna is 0dBi</i>	
	

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, Sweep time=auto														
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p>* Decreases with the logarithm of the frequency.</p>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test setup:	<p>Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
Test procedure:	<ol style="list-style-type: none"> 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 Instruments:	Refer to section 6.0 for details														
Test mode:	Refer to section 5.3 for details														
Test results:	Pass														

Measurement data:

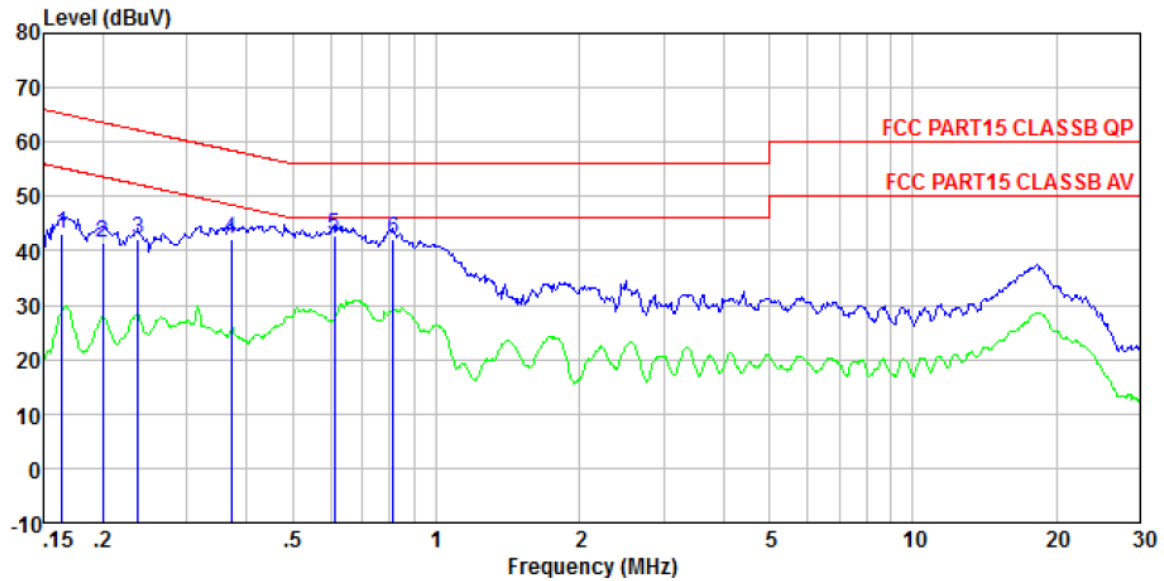
Line:



Site : Shielded room
 Condition : FCC PART15 CLASSB QP LISN-2013 LINE
 Job No. : 0090
 Test mode : Transmitting mode
 Test Engineer: Sky

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.169	44.14	0.15	0.12	44.41	64.99	-20.58	QP
2	0.204	43.39	0.13	0.13	43.65	63.45	-19.80	QP
3	0.313	43.24	0.11	0.10	43.45	59.88	-16.43	QP
4	0.552	40.80	0.13	0.11	41.04	56.00	-14.96	QP
5	0.751	41.35	0.14	0.13	41.62	56.00	-14.38	QP
6	0.844	38.15	0.14	0.13	38.42	56.00	-17.58	QP

Neutral:



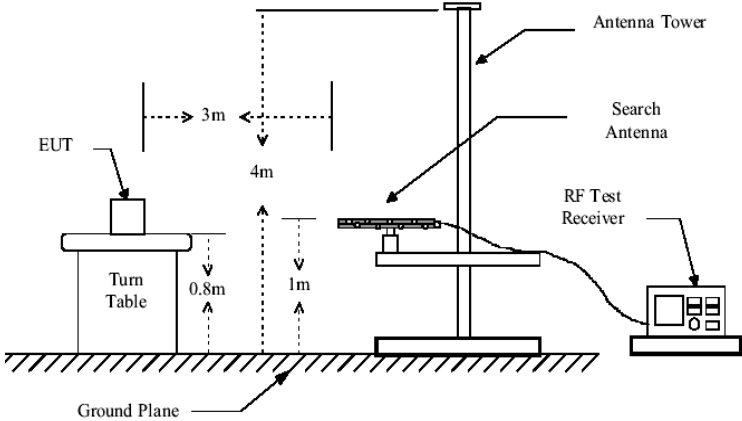
Site : Shielded room
 Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL
 Job No. : 0090
 Test mode : Transmitting mode
 Test Engineer: Sky

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.164	43.01	0.07	0.12	43.20	65.25	-22.05	QP
2	0.200	41.36	0.07	0.13	41.56	63.62	-22.06	QP
3	0.237	41.91	0.06	0.12	42.09	62.22	-20.13	QP
4	0.371	42.10	0.06	0.10	42.26	58.47	-16.21	QP
5	0.611	42.45	0.07	0.12	42.64	56.00	-13.36	QP
6	0.813	42.05	0.07	0.13	42.25	56.00	-13.75	QP

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.

7.3 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	30MHz to 40GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit: (Field strength of the fundamental signal)	Frequency	Limit (dBuV/m @3m)		Remark	
	5725-5875 MHz	94.00		Average Value	
Limit: (Spurious Emissions)	Frequency	Limit (dBuV/m @3m)		Remark	
	30MHz-88MHz	40.00		Quasi-peak Value	
	88MHz-216MHz	43.50		Quasi-peak Value	
	216MHz-960MHz	46.00		Quasi-peak Value	
	960MHz-1GHz	54.00		Quasi-peak Value	
	Above 1GHz	54.00		Average Value	
74.00		Peak Value			
Limit: (band edge)	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 emission limits in Section 15.209, whichever is the lesser attenuation.				
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p>				

	<p>The diagram illustrates the test setup. An EUT (Electromagnetic Under Test) is placed on a turn table. The turn table is positioned 3 meters away from an antenna tower. The antenna tower has a horn antenna mounted on it. The antenna height is varied from 1 meter to 4 meters above the ground. The turn table is 1.5 meters high for frequencies below 1 GHz and 1 meter high for frequencies above 1 GHz. The antenna is connected to a spectrum analyzer via an amplifier.</p>
<p>Test Procedure:</p>	<ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. 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. 3. 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. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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.
<p>Test Instruments:</p>	<p>Refer to section 6.0 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.3 for details</p>
<p>Test results:</p>	<p>Pass</p>

Measurement data:

7.3.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
5730.00	83.52	32.53	9.83	32.29	93.59	114.00	-20.41	Vertical
5730.00	79.53	32.53	9.83	32.29	89.60	114.00	-24.40	Horizontal
5763.00	81.23	32.59	9.88	32.27	91.43	114.00	-22.57	Vertical
5763.00	77.42	32.59	9.88	32.27	87.62	114.00	-26.38	Horizontal
5803.00	79.56	32.63	9.93	32.25	89.87	114.00	-24.13	Vertical
5803.00	75.81	32.63	9.93	32.25	86.12	114.00	-27.88	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
5730.00	73.32	32.53	9.83	32.29	83.39	94.00	-10.61	Vertical
5730.00	69.89	32.53	9.83	32.29	79.96	94.00	-14.04	Horizontal
5763.00	71.33	32.59	9.88	32.27	81.53	94.00	-12.47	Vertical
5763.00	67.64	32.59	9.88	32.27	77.84	94.00	-16.16	Horizontal
5803.00	69.42	32.63	9.93	32.25	79.73	94.00	-14.27	Vertical
5803.00	65.49	32.63	9.93	32.25	75.80	94.00	-18.20	Horizontal

Remark: RBW 3MHz VBW 3MHz Peak detector is for PK value RMS detector is for AV value

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
36.00	38.65	14.58	0.62	30.06	23.79	40.00	-16.21	Vertical
107.89	40.01	14.44	1.26	29.65	26.06	43.50	-17.44	Vertical
131.76	46.37	10.82	1.45	29.50	29.14	43.50	-14.36	Vertical
239.99	41.22	14.09	2.07	29.56	27.82	46.00	-18.18	Vertical
462.35	42.00	17.65	3.14	29.37	33.42	46.00	-12.58	Vertical
848.06	36.05	22.55	4.65	29.15	34.10	46.00	-11.90	Vertical
119.86	49.15	12.48	1.36	29.57	33.42	43.50	-10.08	Horizontal
131.76	50.78	10.82	1.45	29.50	33.55	43.50	-9.95	Horizontal
143.83	50.85	10.22	1.53	29.44	33.16	43.50	-10.34	Horizontal
239.99	48.16	14.09	2.07	29.56	34.76	46.00	-11.24	Horizontal
473.84	42.75	17.95	3.20	29.35	34.55	46.00	-11.45	Horizontal
922.52	36.97	23.24	4.93	29.10	36.04	46.00	-9.96	Horizontal

■ Above 1GHz

Test channel:	Lowest(5730MHz)
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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
11460.00	28.97	39.89	14.98	34.54	49.30	74.00	-24.70	Vertical
17190.00	22.52	45.14	18.98	33.74	57.90	74.00	-21.10	Vertical
11460.00	27.47	39.89	14.98	34.54	47.80	74.00	-26.20	Horizontal
17190.00	21.52	45.14	18.98	33.74	57.90	74.00	-22.10	Horizontal

Test channel:	Middle(5763MHz)
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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
11526.00	27.08	39.81	14.98	34.66	47.21	74.00	-26.79	Vertical
17289.00	22.33	45.86	18.98	34.17	58.00	74.00	-21.00	Vertical
11526.00	26.83	39.81	14.98	34.66	46.96	74.00	-27.04	Horizontal
17289.00	21.10	45.86	18.98	34.17	57.77	74.00	-22.23	Horizontal

Test channel:	highest(5803MHz)
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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
11606.00	29.10	39.71	14.98	34.81	48.98	74.00	-25.02	Vertical
17409.00	22.57	46.49	18.98	34.67	58.37	74.00	-20.63	Vertical
11606.00	27.98	39.71	14.98	34.81	47.86	74.00	-26.14	Horizontal
17409.00	21.38	46.49	18.98	34.67	58.18	74.00	-21.82	Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “*”, means this data is the too weak instrument of signal is unable to test.

7.3.3 Bandedge emissions

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

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
5725.00	30.13	32.53	9.83	32.29	40.20	74.00	-33.80	Horizontal
5875.00	31.52	32.74	10.04	32.20	42.10	74.00	-31.90	Horizontal
5725.00	30.41	32.53	9.83	32.29	40.48	74.00	-33.52	Vertical
5875.00	32.26	32.74	10.04	32.20	42.84	74.00	-31.16	Vertical

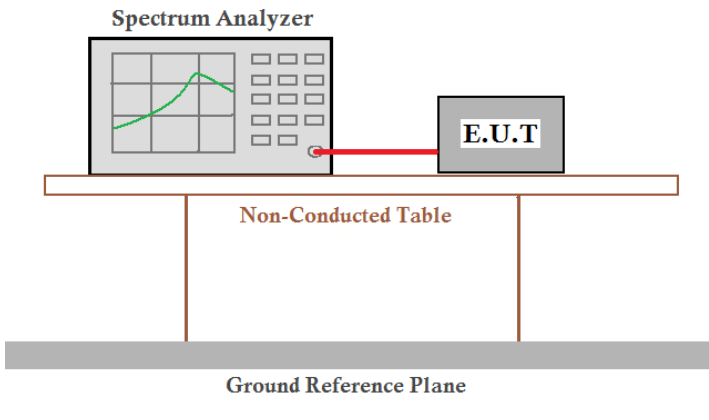
Average value:

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
5725.00	29.35	32.53	9.83	32.29	39.42	54.00	-14.58	Horizontal
5875.00	28.42	32.74	10.04	32.20	39.00	54.00	-15.00	Horizontal
5725.00	27.26	32.53	9.83	32.29	37.33	54.00	-16.67	Vertical
5875.00	28.14	32.74	10.04	32.20	38.72	54.00	-15.28	Vertical

Remark:

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

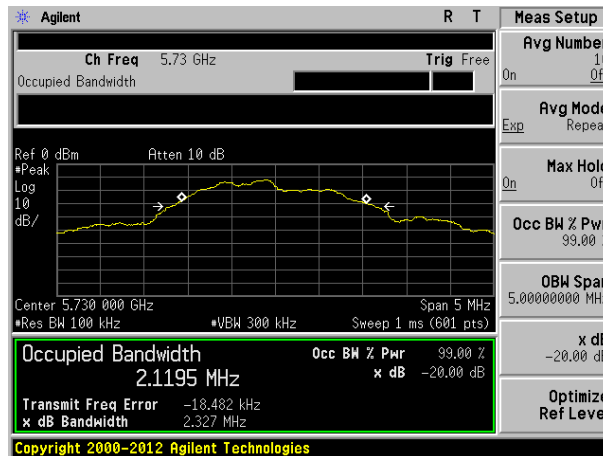
7.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.10:2013
Limit:	Operation Frequency range 2400MHz~2483.5MHz
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

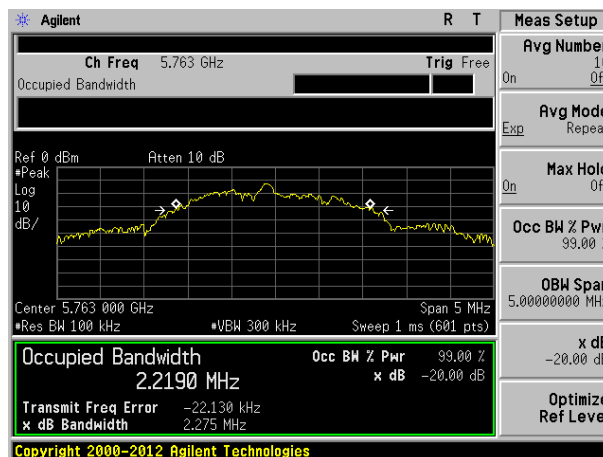
Measurement Data

Test channel	20dB bandwidth(MHz)	Result
Lowest	2.327	Pass
Middle	2.275	
Highest	2.323	Pass

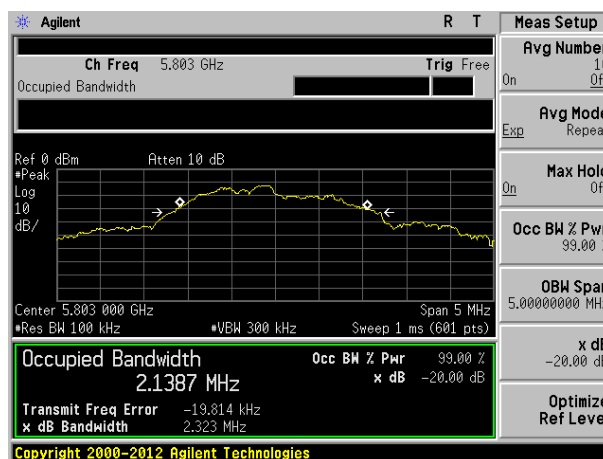
Test plot as follows:



Lowest channel



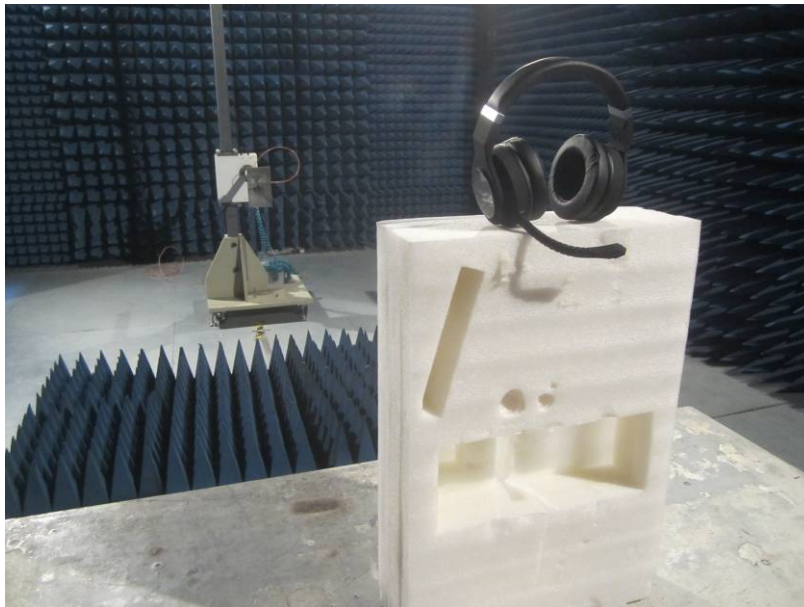
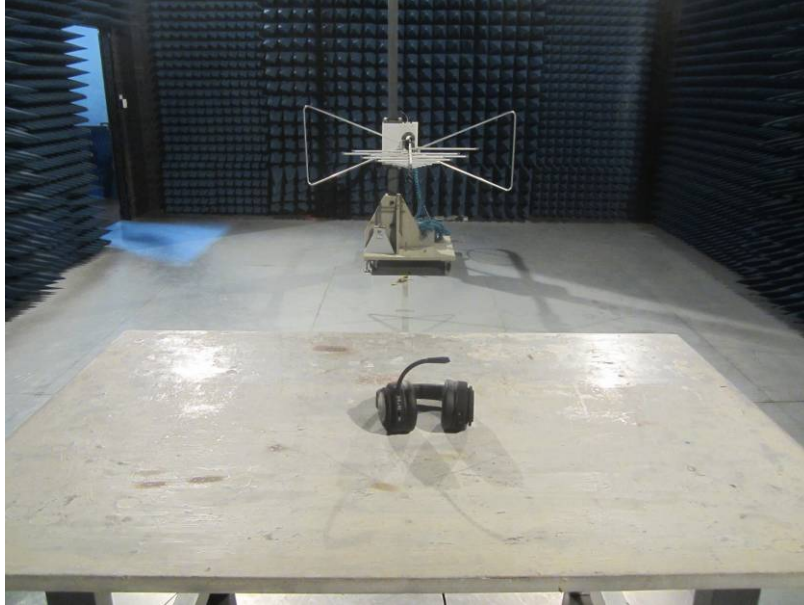
Middle channel



Highest channel

8 Test Setup Photo

Radiated Emission



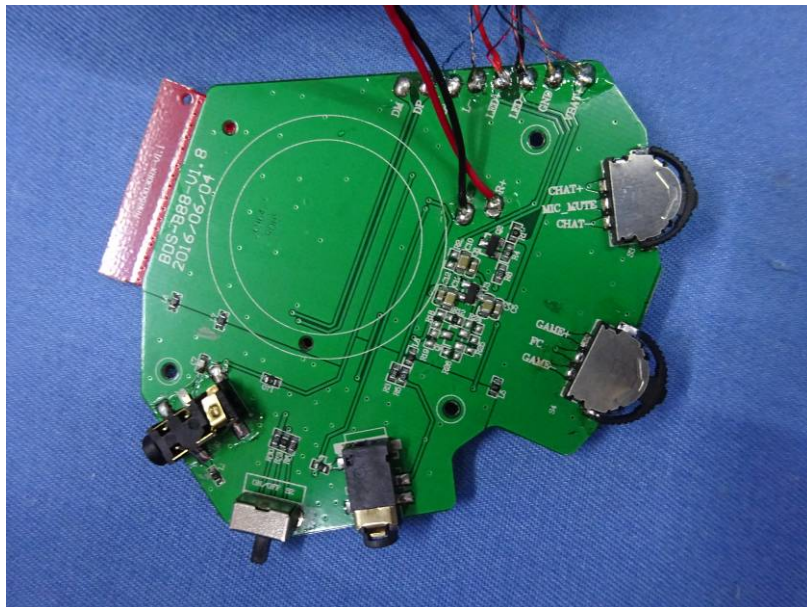
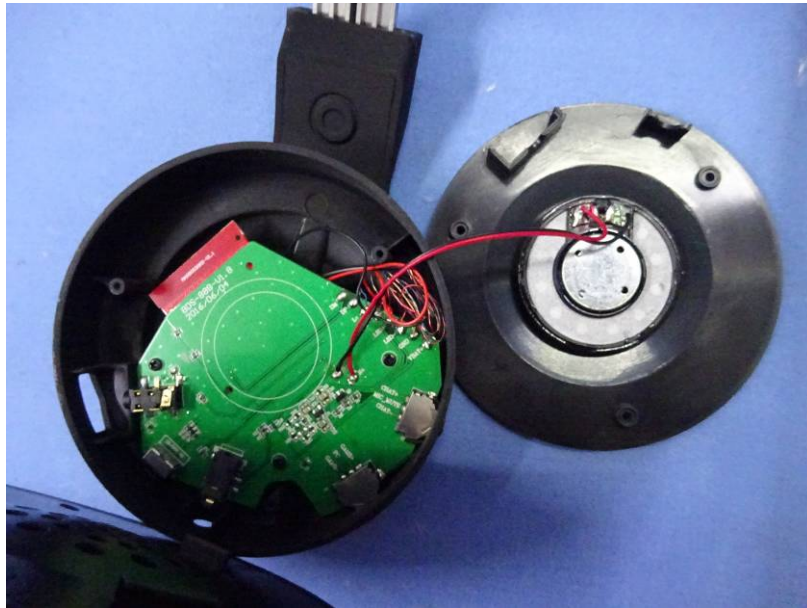
Conducted Emission

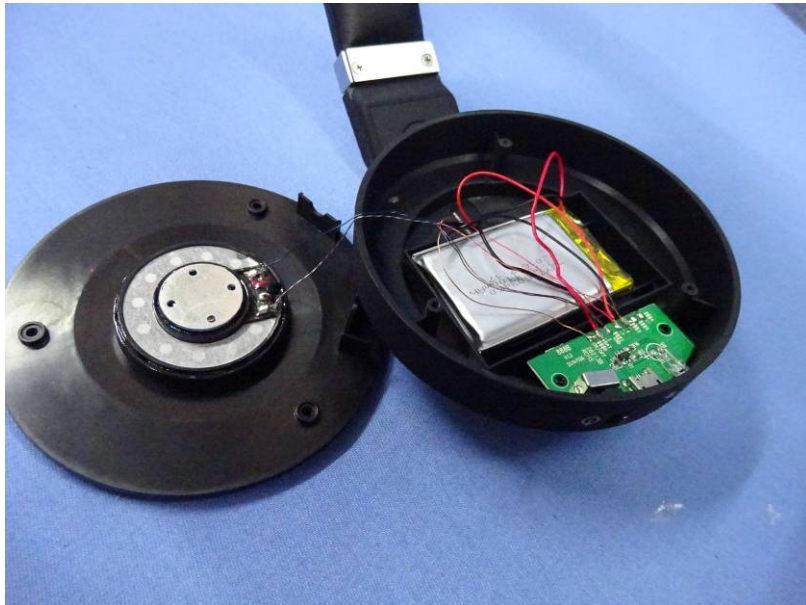
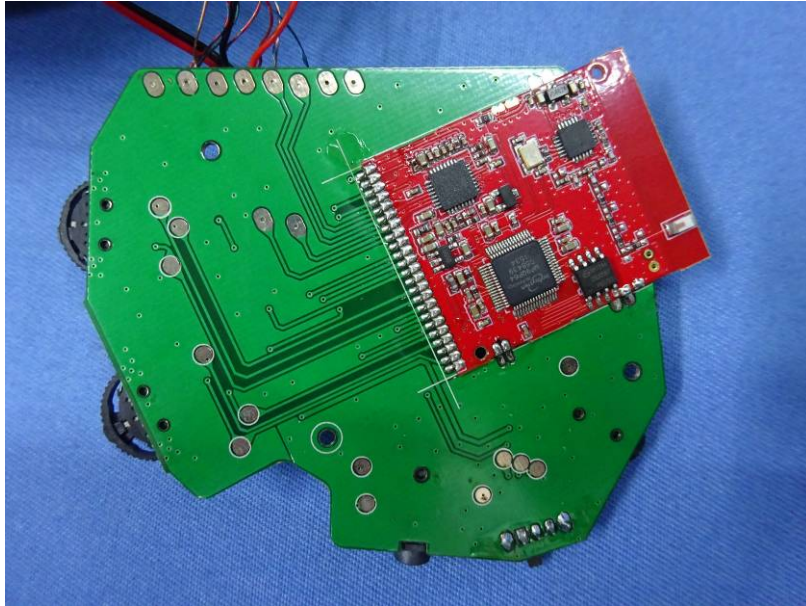


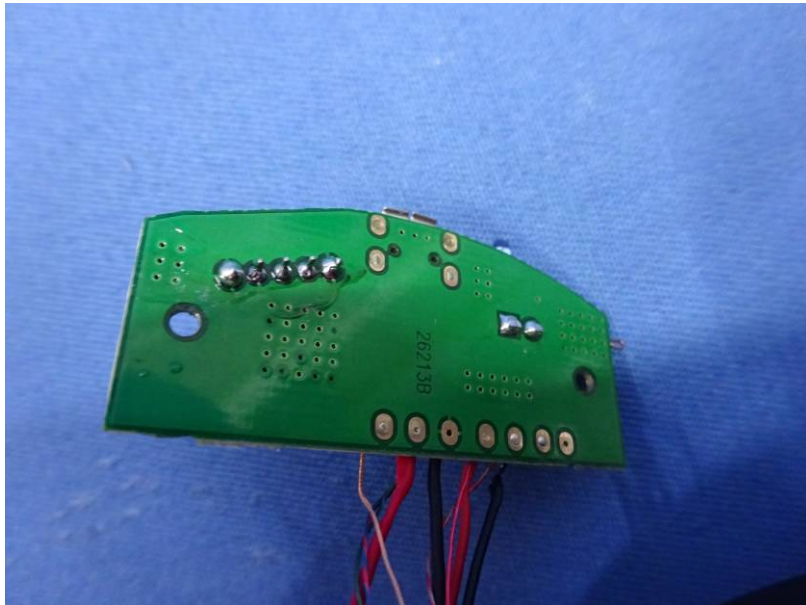
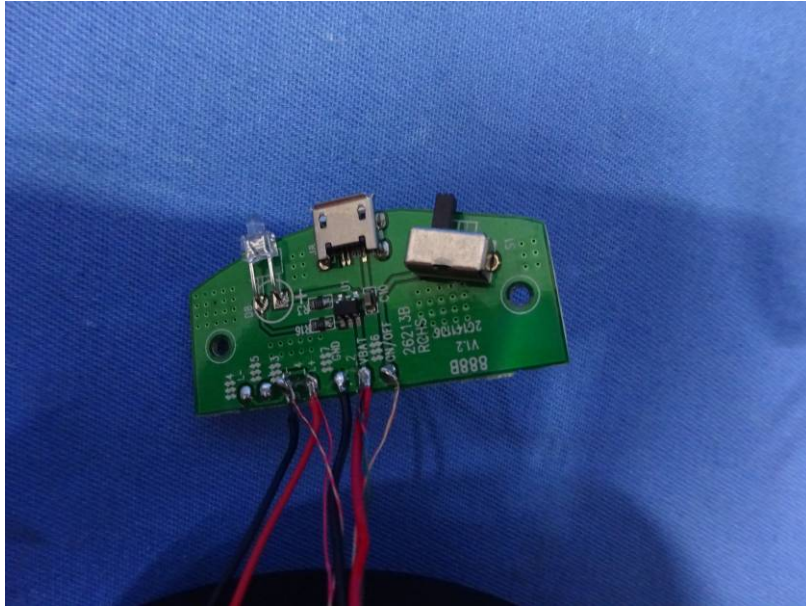
9 EUT Constructional Details













-----End-----