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FEDERAL COMMUNICATIONS COMMISSION Registration Number: 125782

INDUSTRY CANADA
Registration Number: IC4986

FCC TEST REPORT

Under

FCC 15 Subpart C, Paragraph 15.249: 2004

Prepared For:

Skullcandy, Inc.

1910 Prospector Ave, Suite 301 Park City, UT 84060, USA

FCC ID: U7TBTG-363

EUT: Stereo Bluetooth Helmet

Model: BTG-363

April 30, 2007

Report Type: Original Report

Test Engineer: <u>Jacky Huang</u>

Test Date: March 26, 2007

Review By:

Apollo Liu / Manager

TABLE OF CONTENTS

1. General Information	3
1. 1 Notes	
1. 2 Testing Laboratory	3
1. 3 Details of Applicant	3
1. 4 Application Details	3
1. 5 Test Item	
1. 6 Test Standards	3
2. Technical Test	
2. 1 Summary of Test Results	4
3. EUT Modifications	4
4. Conducted Power Line Test	5
4. 1 Test Equipment	5
4. 2 Test Procedure	5
4. 3 Test Setup	5
4. 4 Configuration of the EUT	
4. 5 EUT Operating Condition	
4. 6 Conducted Power Line Emission Limits	7
4. 7 Conducted Power Line Test Result	
5. Radiated Emission Test	8
5. 1 Test Equipment	
5. 2 Test Procedure	
5. 3 Radiated Test Setup	
5. 4 Configuration of the EUT	
5. 5 EUT Operating Condition	
5. 6 Radiated Emission Limit	
5. 7 Radiated Emission Test Result	
6. Band Edge	
6. 1 Test Equipment	
6. 2 Test Procedure	
6. 3 Radiated Test Setup	
6. 4 Configuration of The EUT	
6. 5 EUT Operating Condition	
6. 6 Band Edge FCC 15.249(d) Limit	13
6. 7 Band Edge Test Result	
7. Antenna Requirement	
8. Photos of Testing	
8. 1 EUT Test Photographs	
8. 2 EUT Detailed Photographs	
9. FCC ID Label	
10. Test Equipment	24

1. General Information

1. 1 Notes

The test results of this report relate exclusively to the test item specified in 1.5. The KMO Lab does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the KMO Lab.

1. 2 Testing Laboratory

Ke Mei Ou Laboratory Co., Ltd.

7A, Jiaxiangge, Jiahuixincheng, No.3027, Shennan Rd., Futian, Shenzhen, Guangdong, P.R.China.

Tel: +86 755 83642690 Fax: +86 755 83297077

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Internet: www.kmolab.com

Site on File with the Federal Communications Commission - United Sates

Registration Number: 125782 For 3 & 10 meter OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC4986 For 3 & 10 meter OATS

1. 3 Details of Applicant

Name : Skullcandy, Inc.

Address : 1910 Prospector Ave, Suite 301 Park City, UT 84060, USA

Contact : N/A
Tel : N/A
Fax : N/A

1. 4 Application Details

Date of Receipt of Application : March 6, 2007 Date of Receipt of Test Item : March 6, 2007

Date of Test : March 26~April 30, 2007

1. 5 Test Item

Manufacturer : Same Applicant
Address : Same Applicant
Trade Name : Skull Candy
Model No. : BTG-363

Description : Stereo Bluetooth Helmet

Additional Information

Frequency: 2400MHz~2483.5MHz

Maximum Range : N/A Number of Channels : N/A

Transmitter Antenna : The transmitter has a built in antenna and solder on the PCB

Power Supply : DC3.7V (Power by Battery)

Current Consumption : N/A

1. 6 Test Standards

FCC 15 Subpart C, Paragraph 15.249: 2004

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

2. Technical Test

2. 1 Summary of Test Results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	PASS	Complies
FCC Part 15, Paragraph 15.207	Conducted Test	N/A	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) and 15.249(b) Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209	Radiated Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Measured Band Edges	PASS	Complies.

3. EUT Modifications

No modification by Ke Mei Ou Laboratory Co., Ltd.

4. Conducted Power Line Test

4. 1 Test Equipment

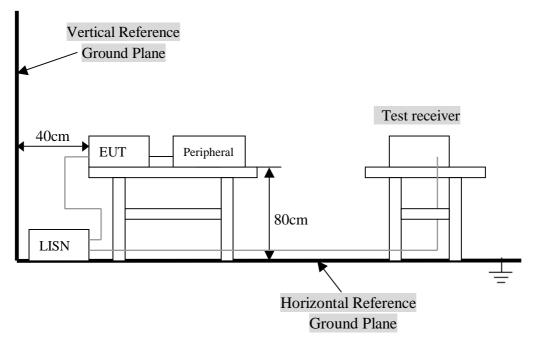
Please refer to Section 10 this report.

4. 2 Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

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 C63.4:2003 on conducted measurement. Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

4. 3 Test Setup



For the actual test configuration, Please refer to the related items - Photos of Testing.

4. 4 Configuration of the EUT

The EUT was configured according to ANSI C63.4-2003. EUT was used DC 3.7V (Power by Battery). The operation frequency is from 2402MHz~2480MHz. Enable the signal transmitted from the external antenna from EUT to receiver. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

- 1) Below 1GHz, the channel low, middle, high were pre-tested, The channel low, worst case one, was chosen for conducted and radiated emission test.
- 2) Above 1GHz, the channel low, middle, high were tested individually.

A. EUT

Device	Manufacturer	Model #	FCC ID
Stereo Bluetooth Helmet	Skullcandy, Inc.	BTG-363	U7TBTG-363

B. Internal Devices

Device	Manufacturer	Model #	FCC ID
N/A			

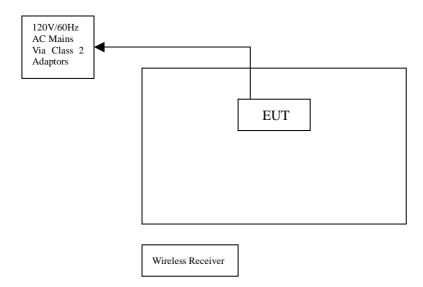
C. Peripherals

Device	Manufacturer	Model # Serial #	FCC ID/ DoC	Cable
Printer	HP	HP930C	DoC	1.5m unshielded power cord 1.2m unshielded data cable.
Modem	GVC	N/A	DoC	1.5m unshielded power cord 1.2m unshielded data cable.
Notebook	DELL	PP10L	DoC	1.5m unshielded power cord
PC	Dell	2400n	DoC	1.5m unshielded power cord

4. 5 EUT Operating Condition

Operating condition is according to ANSI C63.4 - 2003.

- A. Setup the EUT and simulators as shown on follow.
- B. Enable RF signal and confirm EUT active.
- D. Modulate output capacity of EUT up to specification.



4. 6 Conducted Power Line Emission Limits

FCC Part 15 Paragraph 15.207 (dBuV)				
Frequency Range Class A Class B (MHz) QP/AV QP/AV				
0.15 - 0.5	79/66	66-56/56-46		
0.5 - 5.0	73/60	56/46		
5.0 - 30	73/60	60/50		

Note: In the above table, the tighter limit applies at the band edges.

4. 7 Conducted Power Line Test Result

Owing to the DC operation of EUT, this test item is not performed.

5. Radiated Emission Test

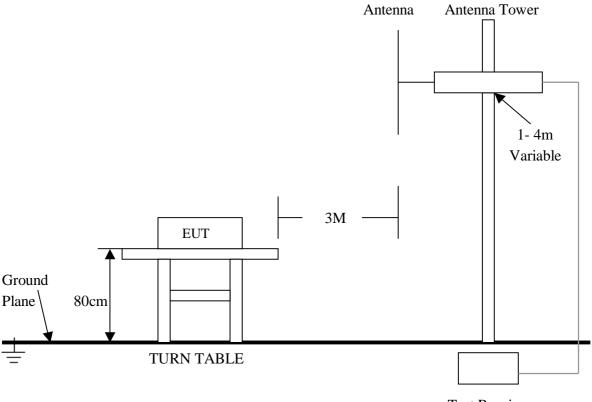
5. 1 Test Equipment

Please refer to Section 10 this report.

5. 2 Test Procedure

- 1. The EUT was tested according to ANSI C63.4 2003. The radiated test was performed at Ke Mei Ou Laboratory .This site is on file with the FCC laboratory division, Registration No. 125782.
- The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high <u>0.8</u> m. All set up is according to ANSI C63.4-2003.
- 3. The frequency spectrum from $\underline{30}$ MHz to $\underline{1}$ GHz was investigated. All readings from $\underline{30}$ MHz to $\underline{1}$ GHz are quasi-peak values with a resolution bandwidth of $\underline{120}$ KHz. All readings are above $\underline{1}$ GHz, peak values with a resolution bandwidth of $\underline{1}$ MHz. Measurements were made at $\underline{3}$ meters.
- 4. The antenna high is varied from $\underline{1}$ m to $\underline{4}$ m high to find the maximum emission for each frequency.
- 5. Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- 6. The antenna polarization: Vertical polarization and Horizontal polarization.

5. 3 Radiated Test Setup



Test Receiver

For the actual test configuration, please refer to the related items - Photos of Testing.

5. 4 Configuration of the EUT

Same as section 4.4 of this report

5. 5 EUT Operating Condition

Same as section 4.5 of this report.

5. 6 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below :

A. FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency	Field Streng	ngth of Fundamental (3m)		Field Strength of Harmonics (3m)		onics (3m)
(MHz)	mV/m	dBuV/m		uV/m	dBı	ıV/m
902~928	50	94(Average)	114(Peak)	500	54(Average)	74(Peak)
2400~2483.5	50	94(Average)	114(Peak)	500	54(Average)	74(Peak)

Note:

- (1) RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- (2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (3) The emission limit in this paragraph is based on measurement instrumentation employing an average detector. Measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency (MHz)	Distance (m)	Field Strength (dBuV/m)
30 - 88	3	40.0
88 - 216	3	43.5
216 - 960	3	46.0
ABOVE 960	3	54.0

Note:

- (1) RF Voltage (dBuV) = 20 log RF Voltage (uV)
- (2) In the Above Table, the tighter limit applies at the band edges.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

5. 7 Radiated Emission Test Result

A. Fundamental Radiated Emission Data

Product : Stereo Bluetooth Helmet Test Mode : CH Low ~ CH High

Test Item : Fundamental Radiated Emission Data Temperature : $25 \, ^{\circ}$ C Test Voltage : DC 3.7V (Power by Battery) Humidity : 56% RH

Test Result : PASS

CH Low

Freq. (GHz)	Emission (dBuV/m) Peak Detector	HORIZ / VERT	Limits (dBuV/m) Peak / Average	Margin (dB)
2402.00	85.96	HORIZ	114 / 94	-28.04
2402.00	81.32	VERT	114 / 94	-32.68

CH Middle

Freq. (GHz)	Emission (dBuV/m) Peak Detector	HORIZ / VERT	Limits (dBuV/m) Peak / Average	Margin (dB)
2441.00	84.65	HORIZ	114 / 94	-29.35
2441.00	83.60	VERT	114 / 94	-30.40

CH High

Freq. (GHz)	Emission (dBuV/m) Peak Detector	HORIZ / VERT	Limits (dBuV/m) Peak / Average	Margin (dB)
2480.00	85.21	HORIZ	114 / 94	-28.79
2480.00	84.10	VERT	114 / 94	-29.90

Note:

- All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- (2) Emission Level = Reading Level + Probe Factor + Cable Loss.
- (3) The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

B. Harmonics Radiated Emission Data

Product : Stereo Bluetooth Helmet Test Mode : CH Low ~ CH High

Test Item : Harmonics Radiated Emission Data Temperature : $25~^{\circ}$ C Test Voltage : DC 3.7V (Power by Battery) Humidity : 56% RH

Test Result : PASS

CH Low

Freq. (MHz)	Emission (dBuV/m) Peak Detector	HORIZ / VERT	Limits (dBuV/m) Peak / Average	Margin (dB)
4804.00	47.47	HORZ	74.0 / 54.0	-26.53
4804.00	44.73	VERT	74.0 / 54.0	-29.27
7206.00	43.08	HORZ	74.0 / 54.0	-30.92
7206.00	38.65	VERT	74.0 / 54.0	-35.35

CH Middle

Freq. (MHz)	Emission (dBuV/m) Peak Detector	HORIZ / VERT	Limits (dBuV/m) Peak / Average	Margin (dB)
4882.00	48.22	HORZ	74.0 / 54.0	-25.78
4882.00	48.58	VERT	74.0 / 54.0	-25.42
7323.00	40.82	HORZ	74.0 / 54.0	-33.18
7323.00	40.68	VERT	74.0 / 54.0	-33.32

CH High

Freq. (MHz)	Emission (dBuV/m) Peak Detector	HORIZ / VERT	Limits (dBuV/m) Peak / Average	Margin (dB)
4960.00	45.02	HORZ	74.0 / 54.0	-28.98
4960.00	43.58	VERT	74.0 / 54.0	-30.42
7440.00	42.10	HORZ	74.0 / 54.0	-31.90
7440.00	41.90	VERT	74.0 / 54.0	-32.10

Note:

- (1) All Reading Levels below 1GHz are Quasi-Peak, above are peak and average value.
- (2) Emission Level = Reading Level + Probe Factor + Cable Loss.
- (3) Receiver setting (Peak Detector): RBW=1MHz; VBW=1MHz; Span=100MHz
- (4) Receiver setting (AVG Detector): RBW=1MHz; VBW=30Hz; Span=20MHz
- (5) The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

C. General Radiated Emission Data

 Product
 : Stereo Bluetooth Helmet
 Test Mode
 : CH Low

 Test Item
 : General Radiated Emission Data
 Temperature
 : 25 ℃

 Test Voltage
 : DC 3.7V (Power by Battery)
 Humidity
 : 56%RH

Test Result : PASS

CH Low

Freq. (MHz)	Emission (dBuV/m) QP Detector	HORIZ / VERT	Limits (dBuV/m)	Margin (dB)
38.360	15.93	HORZ	40.0	-24.07
35.840	17.73	VERT	40.0	-22.27
103.560	16.02	HORZ	43.5	-27.48
153.280	22.09	VERT	43.5	-21.41
159.440	22.13	HORZ	43.5	-21.37
263.800	17.98	VERT	46.0	-28.02

Note:

- All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- (2) Emission Level = Reading Level + Probe Factor + Cable Loss.

FCC ID: U7TBTG-363 Skullcandy, Inc.

6. Band Edge

6. 1 Test Equipment

Please refer to Section 10 this report.

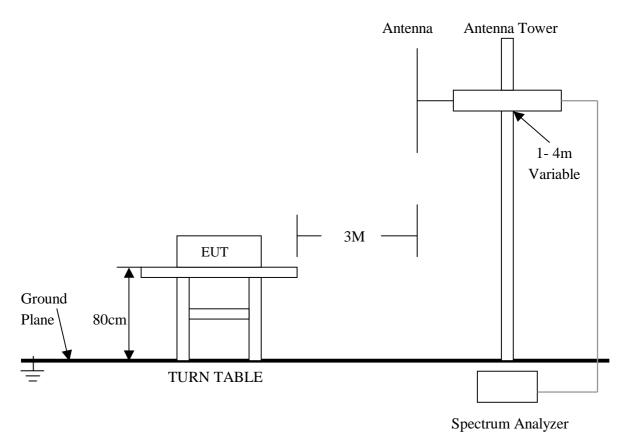
6. 2 Test Procedure

1. The EUT was tested according to ANSI C63.4 - 2003. The radiated test was performed at Ke Mei Ou Laboratory. This site is on file with the FCC laboratory division, Registration No. 125782.

2. The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high <u>0.8</u> m. All set up is according

to ANSI C63.4-2003.

6. 3 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing

6. 4 Configuration of The EUT

Same as section 4.4 of this report

6. 5 EUT Operating Condition

Same as section 4.5 of this report.

6. 6 Band Edge FCC 15.249(d) Limit

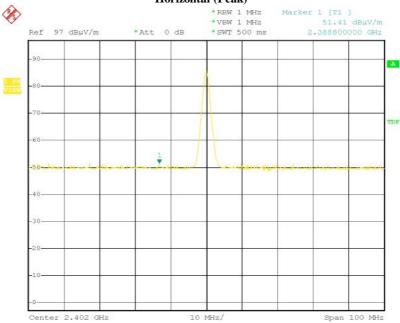
In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 50dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

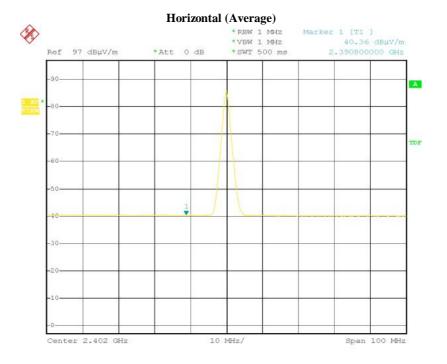
6. 7 Band Edge Test Result

Product : Stereo Bluetooth Helmet Test Mode : Channel Low, Channel High

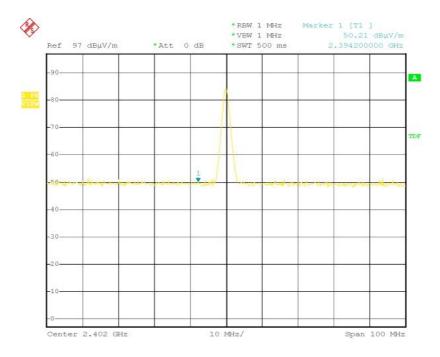
Test Result : PASS

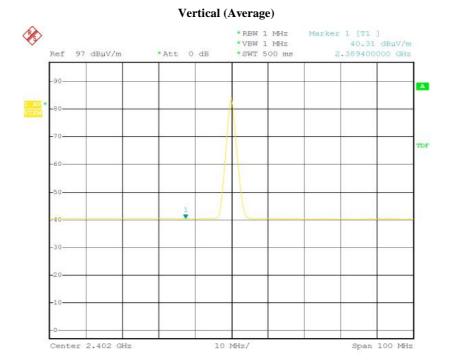
Channel Low Horizontal (Peak)





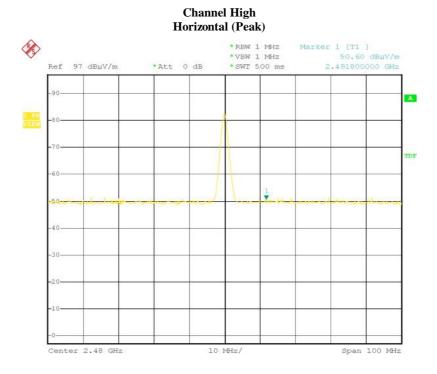
Vertical (Peak)





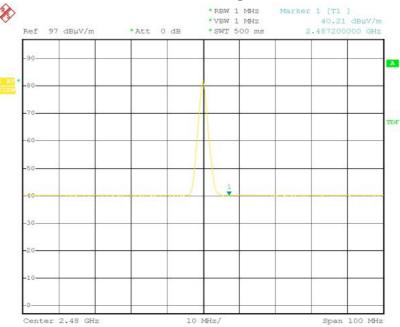
Note:

- (1) The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209.
- (2) The average measurement was not performed when the peak measured data under the limit of average detection.

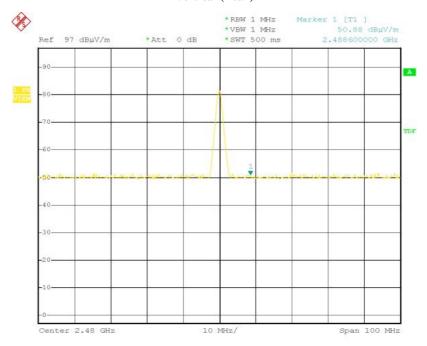


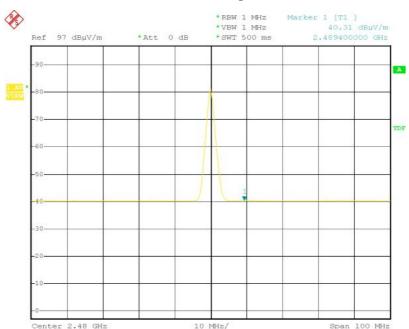
KMO FCC ID Report

Horizontal (Average)



Vertical (Peak)





Vertical (Average)

Note:

- (1) The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209.
- (2) The average measurement was not performed when the peak measured data under the limit of average detection.

7. Antenna Requirement

According to Section 15.203, 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 transmitter has a built in antenna and solder on the PCB, this is permanently attached antenna and meets the requirements of this section.

8. Photos of Testing

8. 1 EUT Test Photographs

Radiated emission test view



8. 2 EUT Detailed Photographs

EUT top view



EUT bottom view

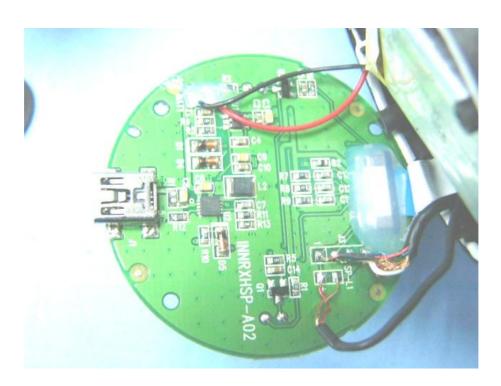


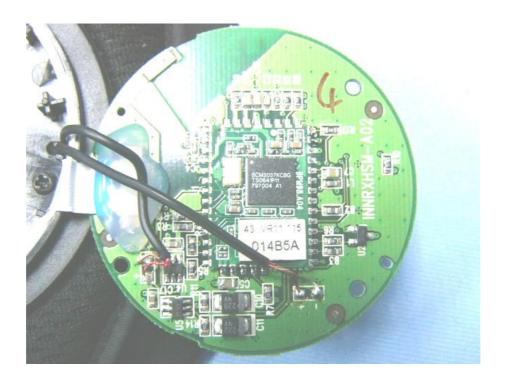
KMO FCC ID Report Page 19 of 24 Report #: KSZ2007030601J

EUT inside whole view

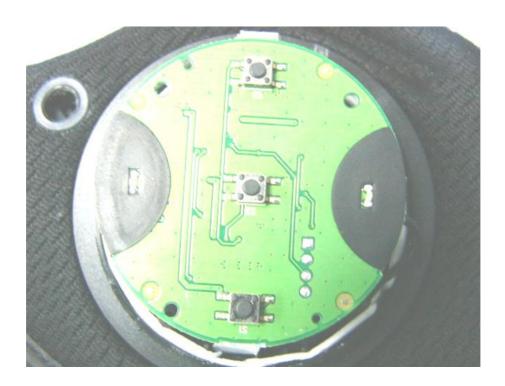


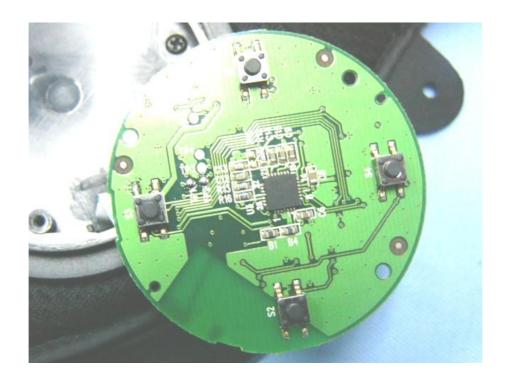
Main & RF board component side





Main & RF board solder side





9. FCC ID Label

FCC ID: U7TBTG-363

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The Label must not be a stick-on paper label. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Proposed Label Location on EUT

EUT Bottom View/Proposed FCC ID Label Location



10. Test Equipment

The following test equipments were used during the radiated & conducted emission test:

Manufacturer	Model #	Serial No.	Date of Cal.	Due Date
KMO	KSZ001T	200306	NCR	NCR
KMO	KSZ002AT	200307	NCR	NCR
KMO	KSZSITE001	N/A	July 06, 2006	July 06, 2007
Rohde & Schwarz	ESPI3	100180	Oct.18, 2006	Oct.18, 2007
Rohde & Schwarz	FSP40	100273	Sep. 18, 2006	Sep. 18, 2007
FLUKE	PM5418+Y/C	LO747012	Feb.10, 2007	Feb.10, 2008
FLUKE	PM5418TX	LO738007	Feb.10, 2007	Feb.10, 2008
SCHWARZBECK	FMZB1516	113	Jan. 30, 2006	Jan. 30, 2007
Rohde & Schwarz	HFH2-Z2	872096/16	Jan. 30, 2006	Jan. 30, 2007
SCHWARZBECK	VULB9161	9161-4079	Sep.18, 2006	Sep.18, 2007
SCHWARZBECK	VULB9161	9161-4080	Sep.18, 2006	Sep.18, 2007
SCHWARZBECK	BBHA 9120D	9120D-564	Sep.18, 2006	Sep.18, 2007
SCHWARZBECK	BBHA 9120D	9120D-565	Sep.18, 2006	Sep.18, 2007
Rohde & Schwarz	HL 562	100110	June.05, 2006	June.05, 2007
Rohde & Schwarz	ESH3-Z5	100196	Oct. 23,2006	Oct. 23, 2007
Rohde & Schwarz	ESH3-Z5	100197	Oct. 23,2006	Oct. 23, 2007
Rohde & Schwarz	ESH3-Z2	N/A	N/A	N/A
Rohde & Schwarz	MDS-21	N/A	Oct. 29,2006	Oct. 29,2007
KMO	KMO-001	N/A	N/A	N/A
Rohde & Schwarz	ESCS30	100003	Feb. 27, 2007	Feb.27, 2008
SCHWARZBECK	AK9515H	95549	Sep.18, 2006	Sep.18, 2007
Rohde & Schwarz	NRVD	100041	Feb.10, 2007	Feb.10, 2008
Rohde & Schwarz	CMS 54	846621/024	Feb.10, 2007	Feb.10, 2008
Hewlett-Packard	8901B	2303A00362	Feb.10, 2007	Feb.10, 2008
IKE	2000-108C	N/A	Feb.10, 2007	Feb.10, 2008
TABAI	PSL-4GTW	N/A	Feb.10, 2007	Feb.10, 2008
Albatross Projects	9mX6mX6m	N/A	Feb.10, 2007	Feb.10, 2008
	KMO KMO Rohde & Schwarz Rohde & Schwarz FLUKE FLUKE SCHWARZBECK Rohde & Schwarz SCHWARZBECK Rohde & Schwarz Rohde & Schwarz Rohde & Schwarz Rohde & Schwarz KMO Rohde & Schwarz SCHWARZBECK Rohde & Schwarz KMO Rohde & Schwarz Hewlett-Packard IKE TABAI	KMO KSZ002AT KMO KSZSITE001 Rohde & Schwarz ESPI3 Rohde & Schwarz FSP40 FLUKE PM5418+Y/C FLUKE PM5418TX SCHWARZBECK FMZB1516 Rohde & Schwarz HFH2-Z2 SCHWARZBECK VULB9161 SCHWARZBECK BBHA 9120D SCHWARZBECK BBHA 9120D SCHWARZBECK BBHA 9120D Rohde & Schwarz ESH3-Z5 Rohde & Schwarz ESH3-FZ5 Rohde & Schwarz ESH3-Z5 Rohde & Schwarz MDS-21 KMO KMO-001 Rohde & Schwarz ESCS30 SCHWARZBECK AK9515H Rohde & Schwarz NRVD Rohde & Schwarz CMS 54 Hewlett-Packard 8901B IKE 2000-108C	KMO KSZ002AT 200307 KMO KSZSITE001 N/A Rohde & Schwarz ESPI3 100180 Rohde & Schwarz FSP40 100273 FLUKE PM5418+Y/C LO747012 FLUKE PM5418TX LO738007 SCHWARZBECK FMZB1516 113 Rohde & Schwarz HFH2-Z2 872096/16 SCHWARZBECK VULB9161 9161-4079 SCHWARZBECK VULB9161 9161-4080 SCHWARZBECK BBHA 9120D 9120D-564 SCHWARZBECK BBHA 9120D 9120D-565 Rohde & Schwarz HL 562 100110 Rohde & Schwarz ESH3-Z5 100196 Rohde & Schwarz ESH3-Z5 100197 Rohde & Schwarz ESH3-Z2 N/A KMO KMO-001 N/A Rohde & Schwarz ESC30 100003 SCHWARZBECK AK9515H 95549 Rohde & Schwarz CMS 54 846621/024 Hewlett-Packard 8901B 2303A003	KMO KSZ002AT 200307 NCR KMO KSZSITE001 N/A July 06, 2006 Rohde & Schwarz ESP13 100180 Oct.18, 2006 Rohde & Schwarz FSP40 100273 Sep. 18, 2006 FLUKE PM5418TX LO747012 Feb.10, 2007 FLUKE PM5418TX LO738007 Feb.10, 2007 SCHWARZBECK FMZB1516 113 Jan. 30, 2006 Rohde & Schwarz HFH2-Z2 872096/16 Jan. 30, 2006 SCHWARZBECK VULB9161 9161-4079 Sep.18, 2006 SCHWARZBECK VULB9161 9161-4080 Sep.18, 2006 SCHWARZBECK BBHA 9120D 9120D-564 Sep.18, 2006 SCHWARZBECK BBHA 9120D 9120D-565 Sep.18, 2006 SCHWARZBECK BBHA 9120D 9120D-565 Sep.18, 2006 Rohde & Schwarz ESH3-Z5 100196 Oct. 23, 2006 Rohde & Schwarz ESH3-Z5 100197 Oct. 23, 2006 Rohde & Schwarz ESH3-Z2 N/A N/A