CENTRE OF TESTING SERVICE INTERNATIONAL

OPERATE ACCORDING TO ISO/IEC 17025

FCC ID TEST REPORT

TEST REPORT NUMBER : CGZ3110516 -00293-E

CENTRE OF TESTING SERVICE CO., LTD.
Building F, Dachuang industrial park, No.379, Zhongshan Dadao,
Guangzhou, China.

TEST REPORT For FCC ID

47 CFR PART 15 OCT, 2009

Report Reference No.	**CNB3110516-00293-E**
Date of issue	18-May 2011
Testing Laboratory Name	**CENTRE OF TESTING SERVICE CO., LTD**
Address	Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China.
Testing location/ procedure	Full application of Harmonised standards ■
	Partial application of Harmonised standards ☐
	Other standard testing method ☐
Applicant's name	SENTRY INDUSTRIES INC.
Address	P.O. BOX 885 ONE BRIDGE STREET HILLBURN , NY10931 , USA
Test specification	
Standard	**47 CFR PART 15 OCT, 2009, ANSI C63.4-2009**
Test Report Form No.	CTSEMC-1.0
TRF Originator	CENTRE OF TESTING SERVICE CO., LTD
Master TRF	Dated 2009-01

Test item description.....	3 IN 1 WIRELESS HEADPHONE
Trade Mark.....	SENTRY
Manufacturer.....	PRIMO INTERNATIONAL LTD.
Model/Type reference.....	HO700
Ratings.....	DC 3V by battery for Transmiter and DC 3V by battery for Receiver
Operating Frequency.....	88.7/FM
Result	**Positive**

Compiled by:	**Supervised by:**	**Approved by:**
Violet Lee / File administrators	Tom Xiao / Technique principal	Vincent.Yao / Manager

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FCC ID -- T E S T R E P O R T

Test Report No. :	CNB3110307-00609-O	18 May 2011 Date of issue

Type / Model.....	HO700
EUT.....	3 IN 1 WIRELESS HEADPHONE
Applicant……	SENTRY INDUSTRIES INC.
Address.....	P.O. BOX 885 ONE BRIDGE STREET HILLBURN , NY10931 , USA
Telephone.....	+845-7532910
Fax.....	/
Contact.....	PEETU
Manufacturer……	PRIMO INTERNATIONAL LTD.
Address.....	RM2509,GINZA INTERNATIONAL BUILDING,7008 SHENNAN.,SHENZHEN.CHINA
Telephone.....	+86-755-82872157
Fax.....	+86-755-82872067
Contact.....	Christine
Factory ……	SHENZHEN BANCEO INDUSTRIAL CO., LTD
Address.....	94 GUANG MING RD., E GONG LING PING LONG INDUSTRY , PING HU TOWN , LONG GANG DISTRICT , SHENZHEN CITY .CHINA
Telephone.....	+86-755- 82872786
Fax.....	+86-755- 82872067
Contact.....	KIM

Test Result according to the standards on page 3: **Positive**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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TEST STANDARDS

The tests were performed according to following standards:

■**47 CFR PART 15 OCT, 2009**
■ **ANSI C63.4-2009**

SUMMARY

2.1 GENERAL REMARKS

Date of receipt of test sample	18 May 2011
Testing commenced on	18 May 2011
Testing concluded on	19 May 2011

2.2 FINAL ASSESSMENT

The FCC requirements pertaining to the technical standards and tested operation modes are

■ - fulfilled.

□ - **not** fulfilled.

The equipment under test

■ - fulfils the FCC requirements cited on page 3.

□ - **does not** fulfil the FCC requirements cited on page 3.

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EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage : ■ DC 3V by battery for transmitter

3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: **1**
Serial number: Prototype

3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

☐ - Standby
■ - Test program (customer specific)

Operation mode 1: TX

Note: X position of EUT is the worst case, so only these test results be recorded in the test report.

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3.4 EUT configuration

3.4.1. Description of configuration (EUT)

Description	:	3 IN 1 WIRELESS HEADPHONE
Model Number	:	HO700
Operation frequency	:	88.7MHz
Radio Technology	:	FM
Modulation Technology	:	FM modulation
Antenna	:	Integral antenna, met requirement of FCC Part 15 C: 15.239

3.4.2. Tested Supporting System Details

N/A

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TEST ENVIRONMENT

4.1 Address of the test laboratory

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel：+86-20-85543113 (32 lines) Fax：+86-20-38780406

4.2 Test facility

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

CNAS-Lab Code: L3394

CENTRE OF TESTING SERVICE CO., LTD has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

IC-Registration No.: 8374

The 3m Alternate Test Site of CENTRE OF TESTING SERVICE CO., LTD has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374 on June 24, 2009 .

FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE CO., LTD, 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 our files. Registration No.791995, July 21, 2009.

4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35 ° C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

4.4 Definitions of symbols used in this test report

■ - The black square indicates that the listed condition, standard or equipment is applicable for this report.

□ - The empty square indicates that the listed condition, standard or equipment is not applicable for this report.

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
Radiation emission (3m)	30MHz~300MHz	±3.14dB	(1)
	300MHz~1000MHz	±3.18dB	(1)

(1).This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Summary of standards and results

5.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	**Standard**	**Results**
Conducted Emission Test	ANSI C63.4-2009 FCC Part 15 C: 15.207	N/A
Radiated Emission Test	ANSI C63.4-2009 FCC Part 15 C: 15.239	PASSED
20 dB Bandwidth Test	ANSI C63.4-2009 FCC Part 15 C: 15.239	PASSED
Antenna Requirement	ANSI C63.4-2009 FCC Part 15 C: 15.239	PASSED
Frequency Range	ANSI C63.4-2009 FCC Part 15 C: 15.239	PASSED
N/A is an abbreviation for Not Applicable.		

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6.Power Line Conducted Emission Test

According to Paragraph (f) of FCC Part 15 C: 15.207, Tests to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

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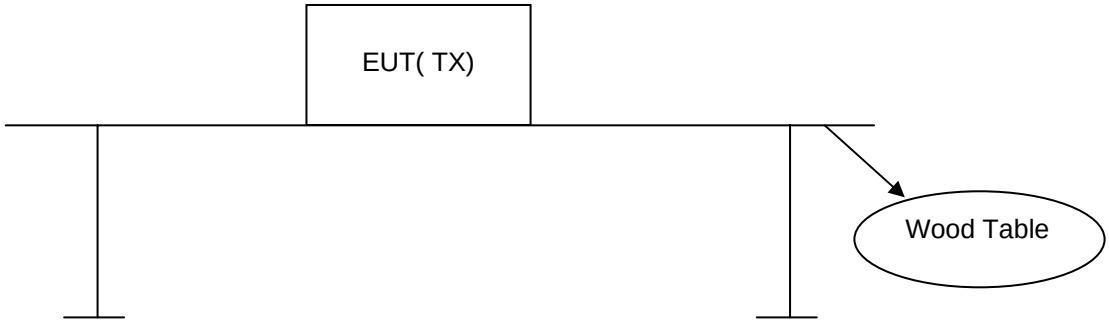
7.Radiated disturbance (electric field)

7.1.Test Equipment

Radiated disturbance (electric field)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2010/12
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2010/12
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2010/12
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2010/12
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2010/12

7.2.Block Diagram of Test Setup

7.2.1 Block Diagram of connection between EUT and simulators



(EUT: 3 IN 1 WIRELESS HEADPHONE)

7.2.2 Anechoic Chamber Setup Diagram

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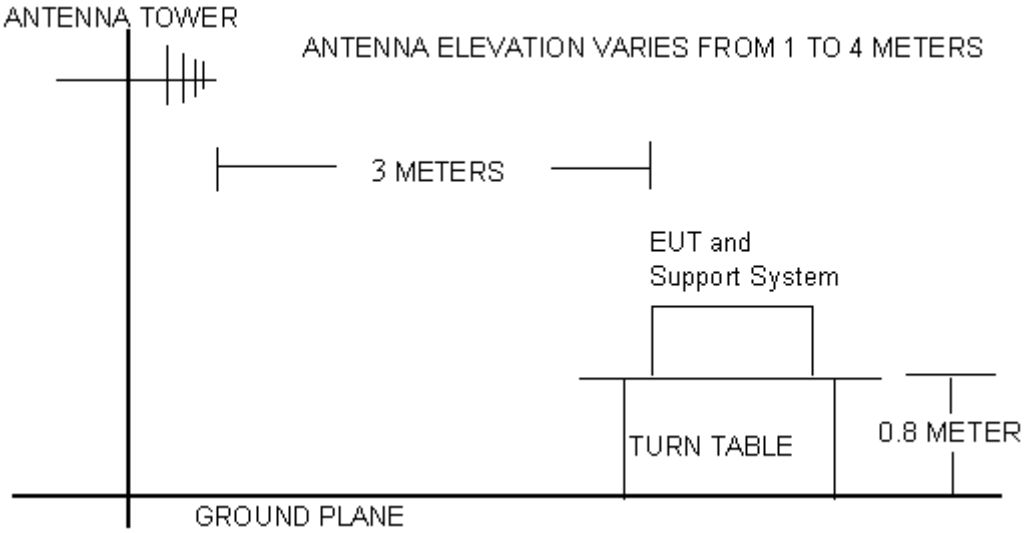

7.3.Radiated Emission Limit Standard: FCC 15.231

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Fundamental	3	250	48.0
Above 1000	3	Other:74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Remark： (1) Emission level dBμV = 20 log Emission level μV/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

7.4.Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009on radiated emission Test.

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 1MHz RBW above 1GHz,

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with 1MHz VBW above 1GHz, A average detector be caluclated from peak value using duty cycle factor Both 30MHz to 1000MHz and above 1GHz

Pretest x, y, z position of EUT, final, select the worst case x position test and record the test results in the report.

The test modes (TX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.5

7.5.Radiated Emission Test Results

PASSED.

The frequency range from 30MHz to 230MHz and 230MHz to 1000MHz is investigated.
Please see the following pages.

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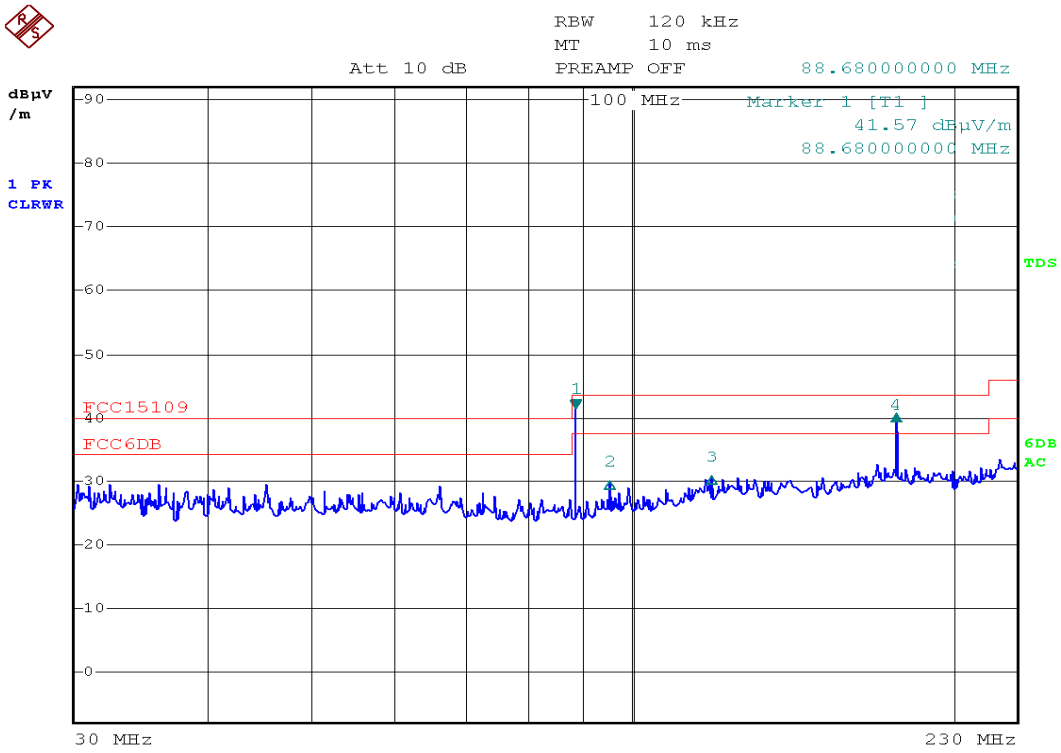
Channel: Test point: Frequency range:	88.7MHz Horizontal 30-230MHz and 230-1000MHz	Result:	■ - passed ☐ - not passed

EUT	3 IN 1 WIRELESS HEADPHONE
Firm Name	SENTRY INDUSTRIES INC.
Operating Condition	DC 3V by battery
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	17 May~18 May 2011
Operator	**Peter**
MODEL NO	HO700



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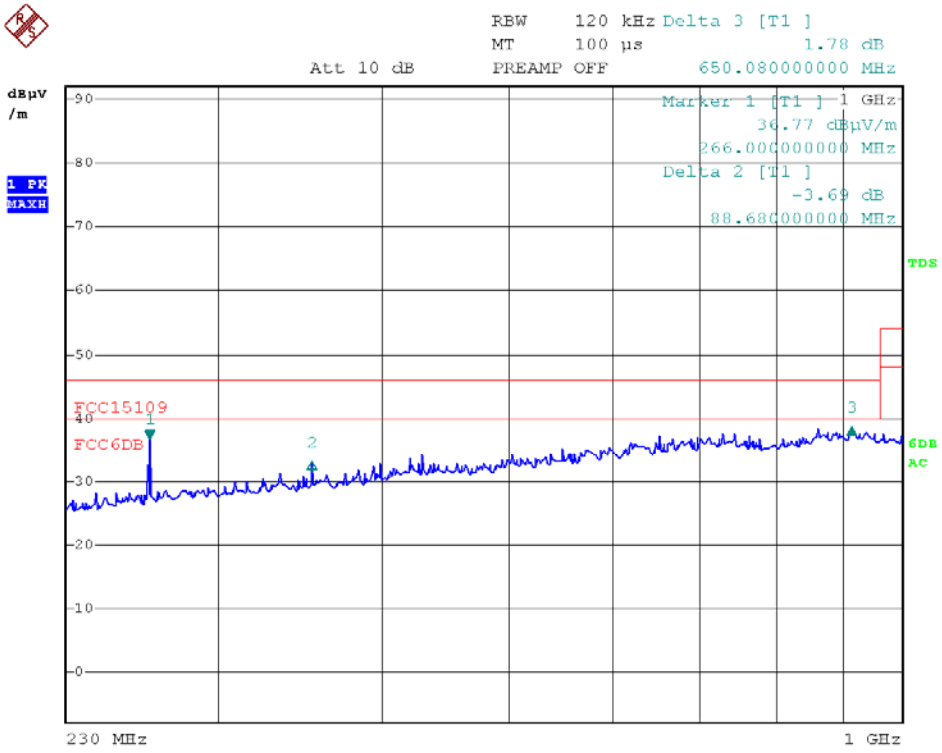

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Fundamental Result						
Frequency	Result [dBµV]		Limit 3m [dBµV]		Dlimit [dBµV]	
[MHz]	Average	Peak	Average	Peak	Average	Peak
88.68	---	41.57	---	48.0	---	6.43

Harmonics and Other frequency Result						
Frequency	Result [dBµV]		Limit [dBµV]		Dlimit [dBµV]	
[MHz]	Average	QP	Average	QP	Average	QP
95.32	---	30.04	---	43.5	---	13.46
118.68	---	30.79	---	43.5	---	12.71
177.36	---	40.3	---	43.5	---	3.20
266.00	---	36.77	---	46.0	---	9.23
354.08	---	33.08	---	46.0	---	12.92
916.08	---	38.55	---	46.0	---	7.45

Note: 1. Emission level=Read level + Factor
2. Factor=Antenna factor + Cable loss

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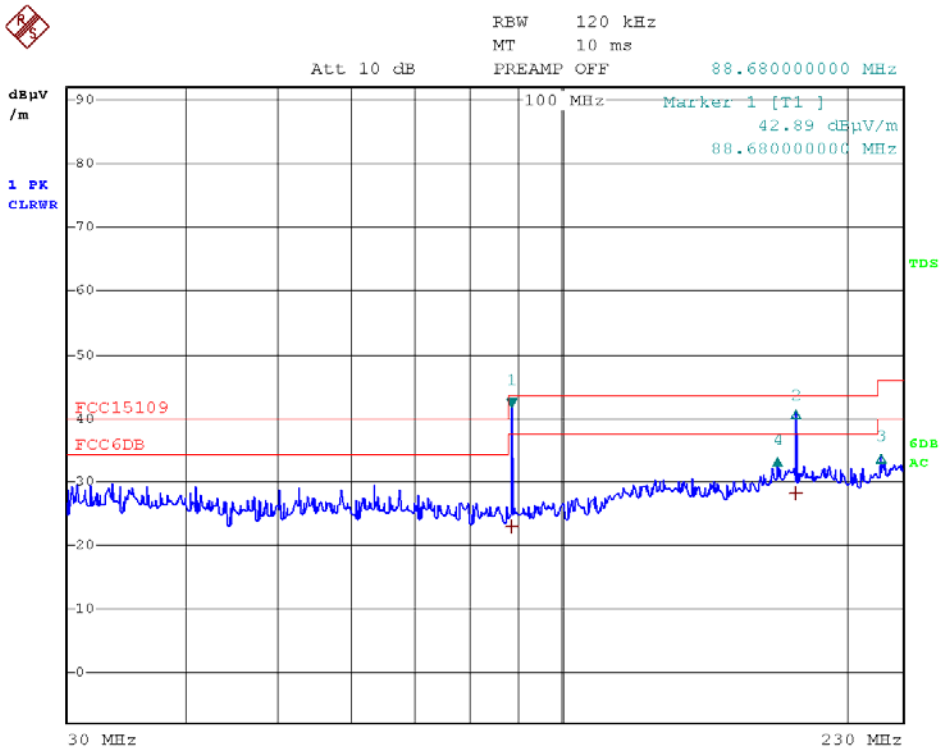
Channel: Test point: Frequency range:	88.7 MHz Vertical 30-230MHz and 230-1000MHz	Result:	■ - passed ☐ - not passed

EUT	3 IN 1 WIRELESS HEADPHONE
Firm Name	SENTRY INDUSTRIES INC.
Operating Condition	DC 3V by battery
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	17 May~18 May 2011
Operator	**Peter**
MODEL NO	HO700



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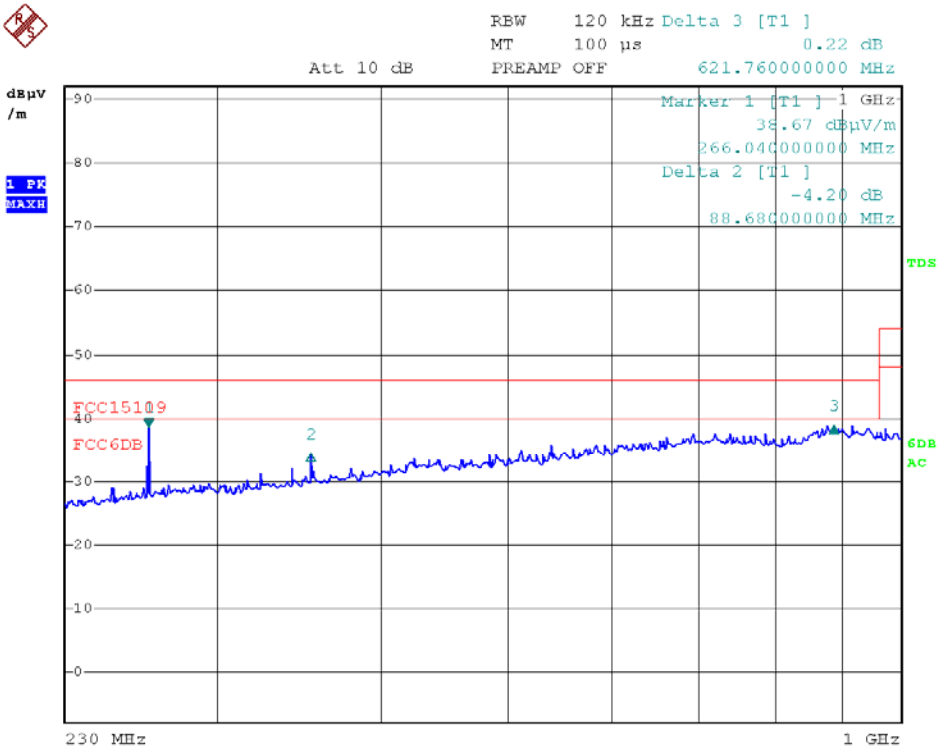

Date: 18.MAY.2011 10:30:09

Fundamental Result						
Frequency	Result [dBµV]		Limit 3m [dBµV]		Dlimit [dBµV]	
[MHz]	Average	Peak	Average	Peak	Average	Peak
88.68	---	42.89	---	48.0	---	5.11

Harmonics and Other frequency Result						
Frequency	Result [dBµV]		Limit [dBµV]		Dlimit [dBµV]	
[MHz]	Average	QP	Average	QP	Average	QP
169.24	---	33.61	---	43.5	---	9.89
177.32	---	41.11	---	43.5	---	2.39
217.88	---	34.10	---	46.0	---	11.90
266.04	---	38.67	---	46.0	---	7.33
354.72	---	34.47	---	46.0	---	11.53
887.80	---	38.90	---	46.0	---	7.10

Note: 1. Emission level=Read level + Factor
2. Factor=Antenna factor + Cable loss

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8.20 dB Bandwidth test

8.1. Test Equipment

20 dB Bandwidth test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2010/12
2	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2010/12
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2010/12

8.2. Test Information

EUT:	3 IN 1 WIRELESS HEADPHONE
M/N:	DP-003W/HO700/HO750/550018068
Firm Name:	SENTRY INDUSTRIES INC.
Power supply:	DC 3V by battery
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.239
Test mode:	Transmitting
Test Frequency:	88.7MHz
Test Date:	18May 2011
Test By:	**Peter**

8.3. Definition

Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range 88-108MHz.

8.4 Test Description

The EUT was placed on a non-conductive table 0.8 meters above the floor. The table was rotated to an angle which presented the highest signal level. The occupied bandwidth was based on a 20 dB criteria (20dB down either side of the emission from the peak emission). A drawing showing the test setup is given as 7.2.2

8.5 Test Result

The maximum occupied bandwidth for the fundamental frequency 88.7 MHz is 57 kHz. This occupied bandwidth complies with the FCC requirement.

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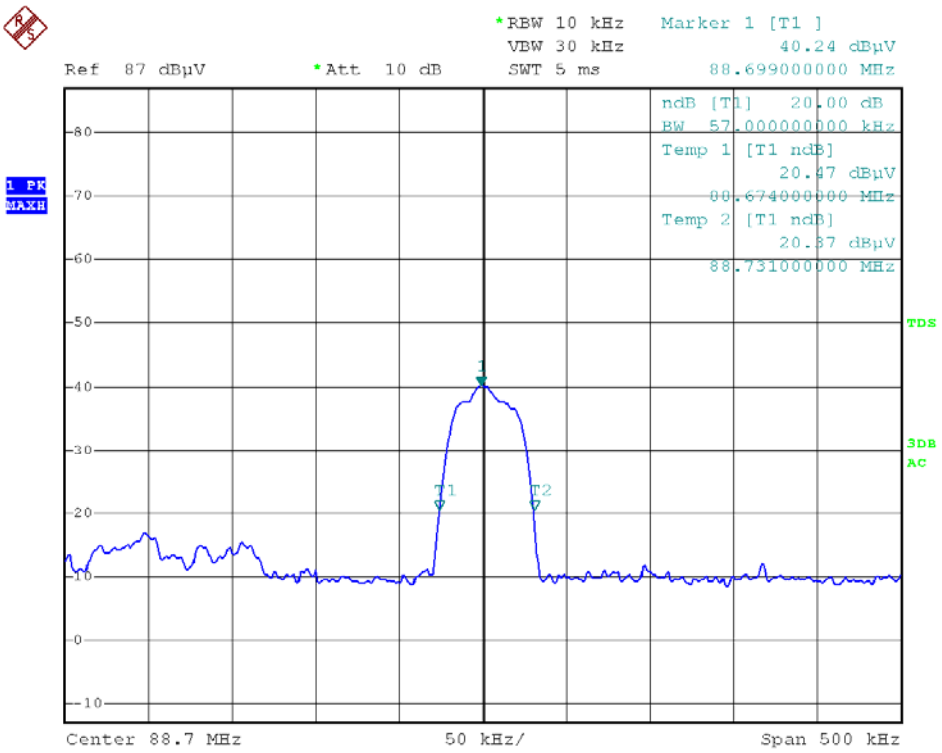

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9.Antenna Requirement

9.1Definition

An analysis of the *EUT* was performed to determine compliance with FCC Section 15.203. This section requires specific handling and control of antennas used for devices subject to regulations.

9.2Evaluation Procedure

The structure and application of the *EUT* was analyzed with respect to the rules. The antenna is an internal antenna, and is not accessible to the user. An auxiliary antenna port is not present.

9.3 Evaluation Criteria

Section 15.203 of the rules states that the subject device must meet at least one of the following criteria:
(a) Antenna must be permanently attached to the unit.
(b) Antenna must use a unique type of connector to attach to the EUT.
(c) Unit must be professionally installed. Installer shall be responsible for verifying that the correct antenna is employed with the unit.

9.4 Evaluation Results

The *EUT* meets the criteria of this rule by virtue of having an internal antenna inaccessible to the user. The EUT is therefore compliant.

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10. Range Range

10.1 Definition

Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.

10.2 Test Description

The EUT was placed on a non-conductive table 0.8 meters above the floor. The table was rotated to an angle which presented the highest signal level. The occupied bandwidth was based on a 26 dB criteria (26 dB down either side of the emission from the peak emission). A drawing showing the test setup is given as 7.2.2.

10.3 Test Result

The operation frequency band is 88.7 MHz . This frequency range complies with the FCC requirement. Refer to the occupied bandwidth test Result 8.5.

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11. Manufacturer/ Approval holder Declaration

The following identical model(s):

DP-003W /HO750/550018068

Belong to the tested device:

Product description: **3 IN 1 WIRELESS HEADPHONE**

Model name: HO700

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