



FCC PART 15.235

EMI MEASUREMENT AND TEST REPORT

For

Jazwares Inc.

1067 Shotgun Road, Sunrise, FL 33326, USA

FCC ID: YNIJAZWARES13510

Report Type:		Product Type:					
Original Report		WWE Walkie Talkie					
		AMan. An					
Test Engineer:	Allan An						
Report Number:	RSZ11051880)1					
Report Date:	2011-05-30						
Reviewed By:	Merry Zhao EMC Enginee	menzy theo					
Prepared By:	Bay Area Com 6/F, the 3rd Ph ShiHua Road, Shenzhen, Gu Tel: +86-755-3	EMC EngineerØBay Area Compliance Laboratories Corp. (Shenzhen)6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008					

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP*, or any agency of the Federal Government. * This report contains data that are not covered by the NVLAP accreditation and are marked with an asterisk "★" (Rev.2)

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The *Jazwares Inc.*'s product, model number: *13510 (FCC ID: YNIJAZWARES13510)* or the "EUT" as referred to in this report is a *WWE Walkie Talkie*, which measures approximately 22.0 cm (L) x 7.0 cm (W) x 5.0 cm (H), rated input voltage: DC 9 V Battery.

*Note: The product model 13510 has two color appearances (red and blue), and both of them are electrically identical; we select the blue one to test, which was explained in the declaration letter.

* All measurement and test data in this report was gathered from production sample serial number: 1105010 (Assigned by BACL, Shenzhen). The EUT was received on 2011-05-18.

Objective

This Type approval report is prepared on behalf of *Jazwares Inc*. in accordance with Part 2, Subpart J, and Part 15, Subparts A, B and C of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC rules, section 15.203, 15.205, 15.209 and 15.235 rules.

Related Submittal(s)/Grant(s)

No Related Submittals.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2009. American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located in the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is an ISO/IEC 17025 guide accredited laboratory, and is accredited by National Voluntary Laboratory Accredited Program (Lab Code 200707-0).



The current scope of accreditations can be found at http://ts.nist.gov/Standards/scopes/2007070.htm

SYSTEM TEST CONFIGURATION

Justification

The system was configured for test mode.

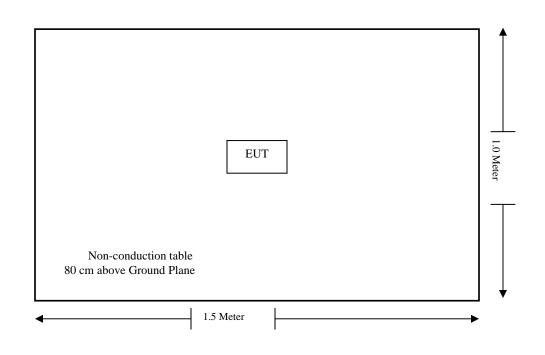
Equipment Modifications

No modifications were made to the unit tested.

Configuration of Test Setup



Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna requirement	Compliance
§15.207(a)	AC Line Conducted Emissions	N/A*
§15.205; §15.209(a) §15.235(a)	Radiated Emissions	Compliance
§15.235(b)	Band Edge Testing	Compliance

Note: * Battery operation only.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

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 shall be considered sufficient to comply with the provisions of this section.

This product has a permanent antenna, fulfill the requirement of this section.

Result: Compliance.

Please refer to the EUT photos.

FCC §15.205, §15.209(a) & §15.235(a) - RADIATED EMISSIONS

Applicable Standard

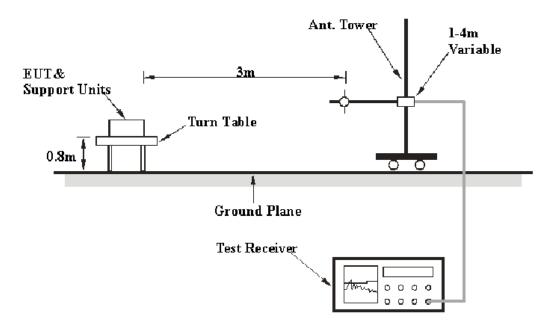
FCC Part 15.205, 15.209 and 15.235

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Laboratory Corp. (Shenzhen) is +4.0 dB.

EUT Setup



The radiated emission tests were performed in the chamber B test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC part 15.205, 15.209 and 15.235 limits.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 1000 MHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	<i>R B/W</i>	Video B/W	IF B/W		
30 – 1000 MHz	100 kHz	100 kHz	120 kHz		
				1	

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Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2010-11-11	2011-11-10
HP	Amplifier	HP8447E	1937A01046	2010-08-02	2011-08-01
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2010-07-05	2011-07-04

* **Statement of Traceability:** Bay Area Compliance Laboratory Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All fundamental data was recorded in the Average and Peak detection mode.

All Spurious data was recorded in the Quasi-Peak detection mode.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the maximum limit. The equation for margin calculation is as follows:

Margin = Limit - Corrected Amplitude

Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.209 & 15.235, with the worst margin reading of:

1.5 dB at 598.317500 MHz in the Vertical polarization

Test Data

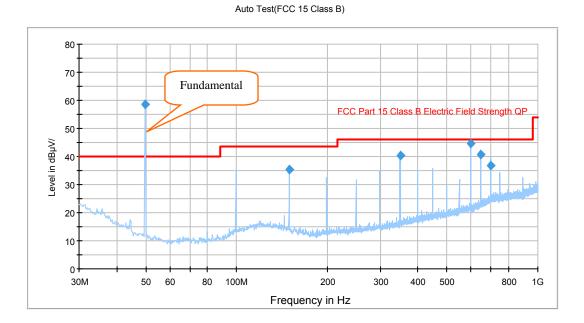
Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	56 %
ATM Pressure:	101 kPa

The testing was performed by Allan An on 2011-05-28.

Test Mode: Transmitting

	S.A.	Table	Test Antenna		_ Ant.		Ant. Cable		Cord.	FCC Part 15.235			
Frequency (MHz)	Reading (dBµV/m)	Angle Deg	Height (cm)	Polar (H/V)	Detector (PK/Ave.)	Detector Factor		Amp. (dB)	Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Note	
49.86	75.25	0	100.0	V	Ave.	7.1	0.36	25.92	56.79	80	23.21	Fund.	
49.86	75.87	0	100.0	V	РК	7.1	0.36	25.92	57.41	100	42.59	Fund.	
49.86	54.89	0	100.0	Н	Ave.	7.1	0.36	25.92	36.43	80	43.57	Fund.	
49.86	55.65	0	100.0	Н	PK	7.1	0.36	25.92	37.19	100	62.81	Fund.	



Frequency Corrected		Test Ar	itenna	Turntable	Correction	Limit	Margin
(MHz)	Amplitude (dBµV/m)	Height (cm)	Polarity (H/V)	position (degree)	Factor (dB)	(dBµV/m)	(dB)
598.317500	44.5	102.0	V	127.0	-6.6	46.0	1.5*
648.173500	40.6	102.0	V	259.0	-4.9	46.0	5.4
349.012250	40.3	207.0	Н	163.0	-11.1	46.0	5.7
149.581750	35.4	102.0	V	94.0	-14.0	43.5	8.1
698.033000	36.8	109.0	V	273.0	-3.1	46.0	9.2

* Within measurement uncertainty

FCC §15.235(b) - BAND EDGES TESTING

Applicable Standard

The field strength of any emissions appearing between the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 26 dB below the level of the unmodulated carrier or to the general limits in §15.209, whichever permits the higher emission levels. The field strength of any emissions removed by more than 10 kHz from the band edges shall not exceed the general radiated emission limits in §15.209. All signals exceeding 20 microvolts/meter at 3 meters shall be reported in the application for certification.

Test Procedure

With the EUT's antenna attached, the EUT's radiated emission power was received by the test antenna which was connected to the test receiver setup with the START and STOP frequencies set to the EUT's operation band.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100224	2010-11-11	2011-11-10

* **Statement of Traceability:** Bay Area Compliance Laboratory Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	56 %
ATM Pressure:	101 kPa

The testing was performed by Allan An on 2011-05-28.

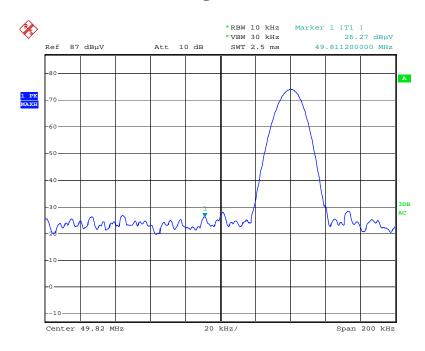
Test Mode: Transmitting

Indi	cated	Table	Ant.	Detector	Co	Correction Factor Cord		Cord.	FCC I 15.235/1	
Freq. (MHz)	Reading (dBµV)	Angle Degree	Height (m)	Detector (PK/Ave)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
49.81	26.27	0	1.0	РК	9.60	0.33	26.7	9.50	40	30.50
49.91	23.22	0	1.0	РК	9.60	0.33	26.7	6.45	40	33.55

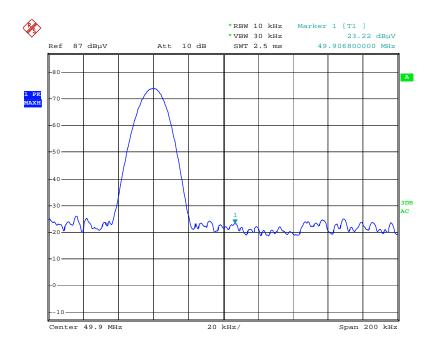
Frequency (MHz)	Emission Level (dBµV/m)	Peak power (dBµV/m)	Attenuation (dB)	Limit (dB)	Margin (dB)
49.81	9.50	57.41	47.91	26	21.91
49.91	6.45	57.41	50.96	26	24.96

Result: Compliance, please refer to the plot attached.

Band Edge- Left Side



Date: 28.MAY.2011 14:40:23



Band Edge- Right Side

Date: 28.MAY.2011 14:42:17

PRODUCT SIMILARITY DECLARATION LETTER



Jazwares, Inc. 1067 Shotgun Road Sunrise. FL 33326, USA Tel: 954.845.0800 Fax: 954.472.8190 Web: www.jazwares.com

To Whom It May Concern:

We, Jazwares Inc, hereby declare that our WWE Walkie Talkie (ID:YNIJAZWARES13510) (Item Number:13510), the Schematics in both units are exactly the same. The difference between these two units is appearance color.

Please contact me if you have any question.

Sincerely.

For and on behalf of JAZWARIES, INC.

Charie Cheng Authorized Signature(s)

Jazwares Inc

1067 Shotgun Road, Sunrise ,FL 33326,USA

Tel: 001 954.845.0800

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Date: 2011-6-3

***** END OF REPORT *****

Report #: RSZ110518801