



Compliance Testing, LLC
Previously Flom Test Lab
EMI, EMC, RF Testing Experts Since 1963

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<http://www.ComplianceTesting.com>
info@ComplianceTesting.com

Date: April 21, 2011

Applicant: FreeLinc
266 West Center St
Orem, UT 84057

Attention of: Douglas H Dobyns
Ph: (801)467-1199
Fax: (801)672-3003
E-mail: ddobyns@freelinc.com

Mailing: FreeLinc
266 West Center St
Orem, UT 84057

Equipment: FLWPTT

FCC Rules: 15.249

Attached is a copy of your Test Report per the testing standards requested.
This report may not be reproduced, except in full, without written permission from Compliance Testing.
Please retain a copy of this report for your archival records.

The attached report indicates that the sample submitted for testing complied with relevant requirements of the pertinent standards we tested to.

If you are seeking an FCC Grant or other Certification requiring approval from a regulatory authority via a Certification Body (TCB or FCB), you may submit this report along with your application for review.

For EU, Production units meeting these standards can now be marketed after completion of the Manufacturer's Declaration of Conformity (DoC) and application of the CE marking.

Our invoice for services has been directed to your Accounts Payable Department, with a copy attached for your reference.

Should anything need clarification, do not hesitate to call or FAX.

It has been a pleasure to work with you and we do thank you for your order.

Sincerely,

Compliance Testing, LLC



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Test Report

For

Model: FLWPTT

Description: Wireless PTT

To

Federal Communications Commission

Rule Part 15.249

Date of Issue: April 21, 2011

On the behalf of the applicant:

FreeLinc
266 West Center St
Orem, UT 84057

Attention of:

Douglas H Dobyns
Ph: (801)467-1199
Fax: (801)672-3003
E-mail: ddobyns@freelinc.com

Prepared by

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Project No: p1130015

Greg Corbin
Project Test Engineer



Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	April 21, 2011	Greg Corbin	Original Document



Table of Contents

Description	Page
Test Results Summary	6
Fundamental Field Strength	7
Radiated Spurious Emissions	8
Test Equipment Utilized	10



Compliance Testing, LLC
Previously Flom Test Lab

A2LA

Compliance Testing, LLC, has been accredited by A2LA for technical competence in the field of electrical testing. The accreditation covers the specific tests and types of tests listed on our scope of accreditation. This laboratory meets the requirements of ISO 17025:2005. "General Requirements for the Competence of Testing and Calibration Laboratories" and any additional program requirements in the identified field of testing

Please refer to www.a2la.org for current scope of accreditation or <http://www.compliancetesting.com/labscope.html>

Certificate Number: **2152.01**



TESTING CERT# 2152.01

FCC OATS Reg, #933597

IC Reg. #2044A-1



The applicant has been cautioned as to the following:

15.21: Information to User

The user's manual or instruction manual for an intentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

15.27(a): Special Accessories

Equipment marketed to a consumer must be capable of complying with the necessary regulations in the configuration in which the equipment is marketed. Where special accessories, such as shielded cables and/or special connectors are required to enable an unintentional or intentional radiator to comply with the emission limits in this part, the equipment must be marketed with, i.e. shipped and sold with, those special accessories. However, in lieu of shipping or packaging the special accessories with the unintentional or intentional radiator the responsible party may employ other methods of ensuring that the special accessories are provided to the consumer, without additional charge.

Information detailing any alternative method used to supply the special accessories for a grant of equipment authorization or retained in the verification records, as appropriate. The party responsible for the equipment, as detailed in § 2.909 of this chapter, shall ensure that these special accessories are provided with the equipment. The instruction manual for such devices shall include appropriate instructions on the first page of text concerned with the installation of the device that these special accessories must be used with the device. It is the responsibility of the user to use the needed special accessories supplied with the equipment.



Test Results Summary

Specification	Test Name	Pass, Fail, N/A	Comments
15.249(a)	Fundamental Field Strength	Pass	
15.249(d)	Out of Band Spurious Emissions	Pass	

EUT Description

The FreeLinc FPTT provides a wireless Push To Talk (PTT) accessory for two way radios. This accessory consists of a receiver module that is installed into the FreeLinc radio adapter and a remote transmitter.

EUT Operation during Tests

EUT was operated under normal operating conditions.



Fundamental Field Strength

Name of Test: Fundamental Field Strength

Specification: 15.249(a)

Engineer: Greg Corbin

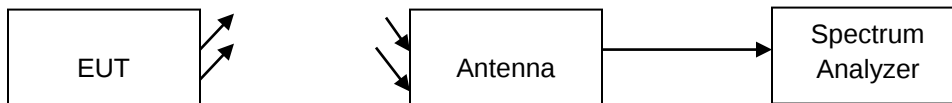
Test Equipment Utilized: i00267, i00331

Test Date: 4/20/2011

Test Procedure

The EUT was tested on an Open Area Test Site (OATS) at a distance of 3 meters from the receiving antenna. A spectrum analyzer was used to verify that the EUT met the requirements for Fundamental Field Strength.

Test Setup



Spectrum Analyzer Settings

Detector Settings	RBW	VBW	Span
Quasi - Peak	120 KHz	300 KHz	as necessary

Sample Calculations:

Correction Factors include Antenna and cable insertion loss correction factors.

Measured Level includes correction factors that were input to the spectrum analyzer before recording test data.

Fundamental Field Strength

Tuned Freq (MHz)	Quasi-Peak Measured Level (dBuV/m)	Quasi-Peak Limit (dBuV/m)	Result
915.3	93.45	94	Pass



Radiated Spurious Emissions

Name of Test: Radiated Spurious Emissions

Specification: 15.249(d)

Engineer: Greg Corbin

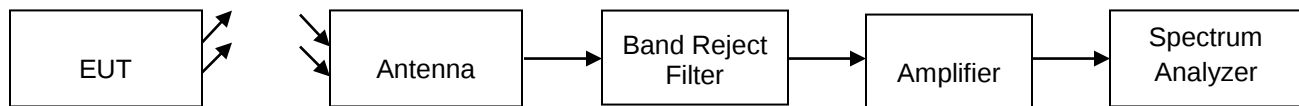
Test Equipment Utilized: i00028, i00103, i00331, i00364

Test Date: 4/20/2011

Test Procedure

The EUT was tested in a semi anechoic chamber set 3m from the receiving antenna. A spectrum analyzer was used to verify that the EUT met the requirements for Radiated Spurious Emissions. The antenna, band reject filter, amplifier and cable correction factors were input into the spectrum analyzer before recording the Measured Level to ensure accurate readings. The spectrum for each tuned frequency was examined to the 10th harmonic.

Test Setup



Analyzer Settings

Detector Settings	RBW	VBW	Span
Peak	1 MHz	3 MHz	as necessary
Average	1 MHz	3 MHz	as necessary

Sample Calculations:

Correction Factors include Antenna and cable insertion loss correction factors.

Measured Level includes correction factors that were input to the spectrum analyzer before recording test data.

Radiated Spurious Emissions

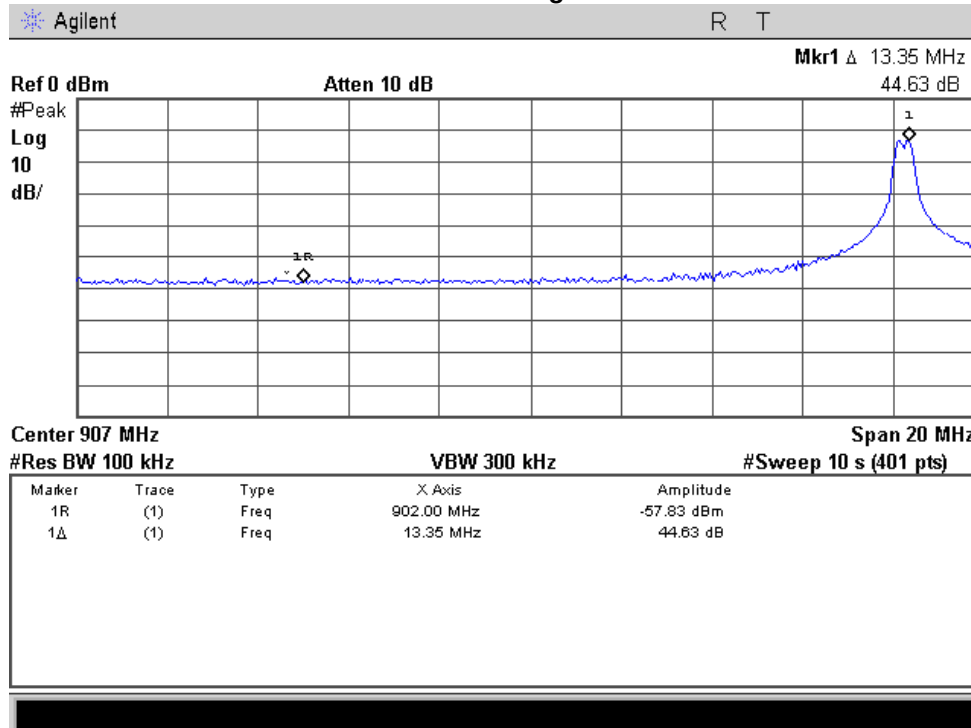
Tuned Freq (MHz)	Emission Freq (MHz)	Peak Measured Level (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)
915.3	1830.60	39.2	74.0	-34.8
915.3	2745.90	47.3	74.0	-26.7
915.3	3661.20	52.1	74.0	-21.9

Tuned Freq (MHz)	Emission Freq (MHz)	Avg Measured Level (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)
915.3	1830.60	33.1	54.0	-20.9
915.3	2745.90	43.4	54.0	-10.6
915.3	3661.20	48.9	54.0	-5.1

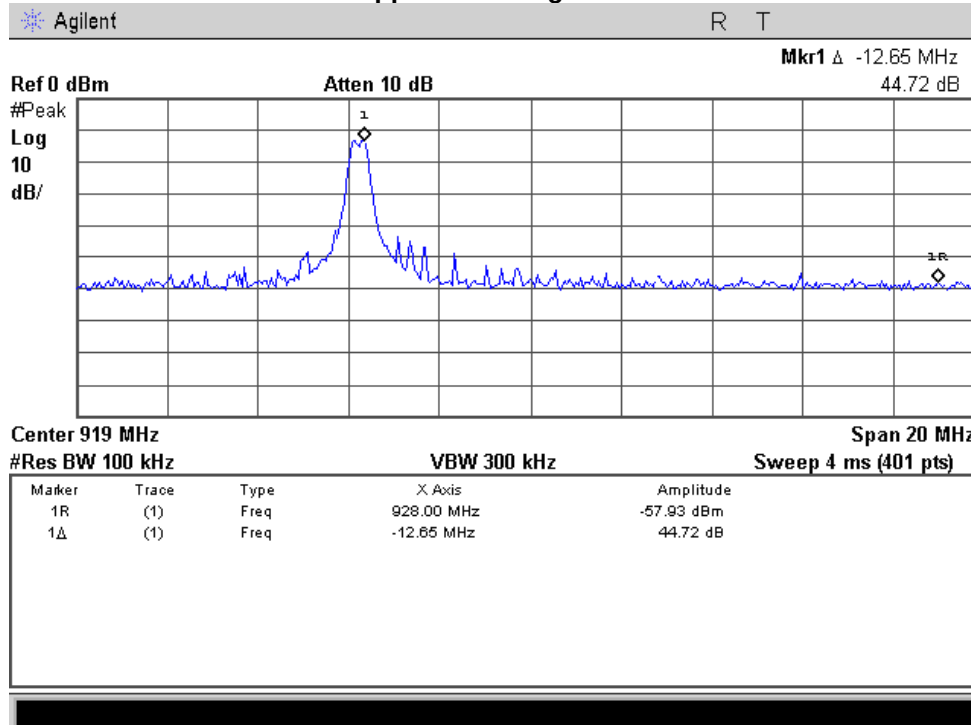
No other emissions were detectable. All emissions were greater than -20 dBc.



Lower Band Edge Plot



Upper Band Edge Plot





Test Equipment Utilized

Description	Manufacturer	Model Number	CT Asset No.	Last Cal Date	Cal Due Date
Preamplifier	HP	8449A	i00028	9/21/10	9/21/11
Horn Antenna	EMCO	3115	i00103	11/5/10	11/5/12
Bi-Log Antenna	Schaffner	CBL611C	i00267	11/21/09	11/21/11
Humidity / Temp Meter	Newport	IBTHX-W-5	i00282	11/11/10	11/11/11
Humidity / Temp Meter	Control Company	4189CC	i00355	1/26/11	1/26/12
Spectrum Analyzer	Agilent	E4407B	i00331	12/20/10	12/20/11
Tunable Notch Filter	Eagle	TNF-240MFMF	i00364	Verify When	Use

In addition to the above listed equipment standard RF connectors and cables were utilized in the testing of the described equipment. Prior to testing these components were tested to verify proper operation.

END OF TEST REPORT