



CERTIFICATION TEST REPORT PART 15.247C IC RSS-210

For The Vehicle Transceiver Model: 6711T

FCC ID: EZSDEI6711 IC: 1513A-6711

PREPARED FOR:

Directed Electronics, Inc 1 Viper Way Vista, CA 92081

Prepared on: June 19, 2008

Report Number: 2008 0412227 FCC

Project Number: 12227-1

NEx Number: 104605

Total Pages: 46

Nemko USA, Inc. 11696 Sorrento Valley Road, Suite F, San Di Phone (858) 755-5525 Fax		Valley Road, Suite F, San Dieg Phone (858) 755-5525 Fax (8:		
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test FCC ID: EZSDEI6711 IC: 1	•	2008 0412227 FCC	2 of 46

DOCUMENT HISTORY

1	REVISION	DATE	COMMENTS	
-		June 19, 2008	Prepared By:	Alan Laudani
-		June 19, 2008	Initial Release:	Alan Laudani

NOTE: Nemko USA, Inc. hereby makes the following statements so as to conform to Chapter 10 (Test Reports) Requirements of ANSI C63.4 (2003) "Methods and Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz":

- o The unit described in this report was received at Nemko USA, Inc.'s facilities on April 2, 2008.
- \circ $\;$ Testing was performed on the unit described in this report on April 2, 2008 to June 18, 2008
- The Test Results reported herein apply only to the Unit actually tested, and to substantially identical Units.
- This report does not imply the endorsement of the Federal Communications Commission (FCC), Industry Canada, NVLAP or any other government agency.

This Report is the property of Nemko USA, Inc., and shall not be reproduced, except in full, without prior written approval of Nemko USA, Inc. However, all ownership rights are hereby returned unconditionally to Directed Electronics, Inc, and approval is hereby granted to Directed Electronics, Inc, and its employees and agents to reproduce all or part of this report for any legitimate business purpose without further reference to Nemko USA, Inc.

Nemko USA, Inc.		11696 Sorrento Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810		
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test FCC ID: EZSDEI6711 IC:		2008 0412227 FCC	3 of 46

TABLE OF CONTENTS

DOC	UMENT HISTORY2
CER	TIFICATION4
1.	ADMINISTRATIVE DATA AND TEST SUMMARY5
1.1.	ADMINISTRATIVE DATA5
1.2.	TEST SUMMARY5
2.	SYSTEM CONFIGURATION6
2.1.	DESCRIPTION AND METHOD OF EXERCISING THE EUT
2.2.	SYSTEM COMPONENTS AND POWER CABLES
2.3.	SAMPLES SUBMITTED FOR ASSESSMENT
2.4.	DEVICE INTERCONNECTION AND I/O CABLES
2.5.	DESIGN MODIFICATIONS FOR COMPLIANCE
2.6.	TECHNICAL SPECIFICATIONS OF THE EUT
3.	DESCRIPTION OF TEST SITE AND ENVIRONMENT8
3.1.	DESCRIPTION OF TEST SITE8
3.2.	TEST ENVIRONMENT8
4.	DESCRIPTION OF TESTING METHODS9
4.1.	Introduction9
4.2.	CONFIGURATION AND METHODS OF MEASUREMENTS FOR CONDUCTED EMISSIONS9
4.3.	CONFIGURATION AND METHODS OF MEASUREMENTS FOR FREQUENCY IDENTIFICATION9
4.4.	CONFIGURATION AND METHODS OF MEASUREMENTS FOR RADIATED EMISSIONS
5.	TEST RESULTS11
5.1.	BANDWIDTH
5.2.	DUTY CYCLE MEASUREMENT
5.3.	TIME OF OCCUPANCY
5.4.	CHANNEL SEPARATION
5.5.	Frequency Plan
5.6.	NUMBER OF HOPPING CHANNELS
5.7.	RADIATED EMISSIONS TEST DATA
5.8.	CONDUCTED OUTPUT POWER
5.9.	CONDUCTED SPURIOUS
5.10.	Test Equipment

Nemko USA, Inc.		11696 Sorrento Valley Road, Suite F, San Diego, CA 921 Phone (858) 755-5525 Fax (858) 452-18		
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test FCC ID: EZSDEI6711 IC:		2008 0412227 FCC	4 of 46

CERTIFICATION

Nemko USA, Inc., an independent Electromagnetic Compatibility (EMC) Test Laboratory, produced this Test Report and performed the Radio Frequency Interference (RFI) testing and data evaluation contained herein.

Nemko USA, Inc.'s measurement facility is currently registered with the United States Federal Communications Commission (FCC) in accordance with the provisions of 47 United States Code (CFR) Part 2, Subpart I, Section 2.948(a). A current description of Nemko USA, Inc.'s measurement facility is on file with the FCC. Nemko USA Inc. has additionally satisfied the FCC that it complies with the requirements set forth in 47 CFR Part 2, Subpart I, Section 2.948(d) regarding the accreditation of EMC laboratories.

The RFI testing, test data collection and test data evaluation were accomplished in accordance with the ANSI C63.4–2003 Standard, and in accordance with the applicable sections of the FCC rules (47 CFR Parts 2 and 15). The testing was also accomplished in accordance with Industry Canada's ICES-003 standard for unintentional radiating device per EMCAB-3, Issue 3 (May 1998). The administrative summary of this test report provides a description of the test sample.

I hereby certify that the test data, test data evaluation, and equipment configurations used to compile this test report are a true and accurate representation of the test sample's radio frequency interference characteristics as of the test date(s), and, for the design of the test sample.

Alan Laudani EMC Engineer

Nemko USA, Inc. 11696 Sorrento Valley Road, Suite F, San Diego, Phone (858) 755-5525 Fax (858)		., -		
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: EZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	5 of 46

1. ADMINISTRATIVE DATA AND TEST SUMMARY

1.1. Administrative Data

CLIENT: Directed Electronics, Inc

1 Viper Way Vista, CA 92081

CONTACT: Minas Minassian

E-Mail: minas.minassian@directed.com

DATE (S) OF TEST: April 2, 2008 to June 18, 2008

EQUIPMENT UNDER TEST (EUT): Vehicle Transceiver

MODEL: 6711T

CONDITION UPON RECEIPT: Suitable for Test

TEST SPECIFICATION: FCC, Part 15.247, Subpart C Operation within the bands 902-

928 MHz, 2400-2483.5 MHz, 5725-5850 MHz and 24.0-24.25 GHz bands and RSS 210 (Issue 7, June 2007) Annex 8 - Frequency Hopping and Digital Modulation Systems Operating in the Bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850

MHz

1.2. Test Summary

Specification	Frequency Range	Compliance Status
FCC, CFR 47, Section 15.207	0.15 MHz - 30.00 MHz	NA ¹
FCC, CFR 47, Section 15.209	30 MHz – 10 th Harmonic	PASS ²
FCC CFR 47, §15.247 Plus Bandedge	909.4 to 918.5 MHz	PASS
RSS-210 - Low Power License Exempt Radio-communication Devices (All Frequency Bands)	909.4 to 918.5 MHz	PASS

Power was supplied by vehicle

Alan Laudani EMC Engineer

² Testing was started at 30 MHz as there are no RF signals generated below this frequency. *Refer to the test results section for further details.*

Nemko USA, Inc. 11696 Sorrento Valley Road, Suite F, San Diego, C Phone (858) 755-5525 Fax (858)		., -		
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test FCC ID: EZSDEI6711 IC:		2008 0412227 FCC	6 of 46

2. SYSTEM CONFIGURATION

2.1. Description and Method of Exercising the EUT

The 6711T is a Vehicle Transceiver. The EUT is a transmitter used for vehicle security/convenience systems. It's wired to a control module via a 6 pin harness. The 6 pin harness supplies vehicle power (12 VDC), ground, digital data to be transmitted by the EUT, received digital data from the EUT to the control module and an integral LED and switch. The EUT has two separate operating modes, normal mode and page mode.

In normal mode, the receiver portion of the transceiver is always on scanning all 25 channels for an incoming transmission.

(Page mode) If an alarm condition is detected in the vehicle such as a break-in, the EUT will broadcast the alarm message.

The Transmission is achieved via a soldered dipole antenna on the PCB.

This design employs 25 channels which operate in the 902MHz to 928MHz band. Each channel has a 20dB BW greater than 250KHz but less than 500KHz.

For ease of test setup, a DC power supply was used to sustain DC power.

2.2. System Components and Power Cables

DEVICE	MANUFACTURER MODEL # SERIAL #	POWER CABLE
EUT - Vehicle Transceiver	Directed Electronics, Inc	12 VDC from Vehicle
	Model: 6711T	
	Serial #: NA	

2.3. Samples Submitted for Assessment

The following samples of the apparatus have been submitted for type assessment:

2.4. Device Interconnection and I/O Cables

Connection	I/O Cable
No Connections	

Nemko USA, Inc.	Temko USA, Inc. 11696 Sorrento Valley Road, Suite F, San Diego, CA Phone (858) 755-5525 Fax (858) 45			
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test FCC ID: EZSDEI6711 IC:		2008 0412227 FCC	7 of 46

2.5. Design Modifications for Compliance

The following design modifications were made to the EUT during testing.

No design modifications were made to the EUT during testing.

2.6. Technical Specifications of the EUT

Manufacturer: Directed Electronics, Inc

Operating Frequency: 909.4 to 918.5 MHz in the 902to 928MHz

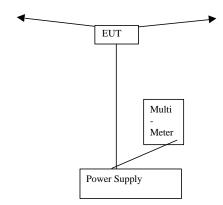
Rated Power: 132 mW **Modulation:** FSK

Antenna Data: Integral antenna: dipole soldered to circuit board

Antenna Connector: None

Power Source: 12 VDC vehicle power supply

EUT power up set-up:



Nemko USA, Inc. 11696 Sorrento Valley Road, Suite F, San Diego, C Phone (858) 755-5525 Fax (858)		., -		
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: EZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	8 of 46

3. DESCRIPTION OF TEST SITE AND ENVIRONMENT

3.1. Description of Test Site

The test site is located at 11696 Sorrento Valley Road, Suite F, San Diego, CA 92121. The site is physically located 18 miles Northwest of downtown San Diego. The general area is a valley 1.5 miles east of the Pacific Ocean. This particular part of the valley tends to minimize ambient levels, i.e. radio and TV broadcast stations and land mobile communications. The three and ten-meter Open Area Test Site (OATS) is located behind the office/lab building. It conforms to the normalized site attenuation limits and construction specifications as set in the EN 55022 (1987), CISPR 16 and 22 (1985) and ANSI C63.4-2001 documents. The OATS normalized site attenuation characteristics are verified for compliance every year, and registered with the Federal Communications Commission under Registration Number 90579 and Industry Canada under 2040B-1 and 2040B-2

3.2. Test Environment

All tests were performed under the following environmental conditions:

Power supply range : $120VAC\ 60Hz\ (\pm 15\%)$

Nemko USA, Inc. 11696 Sorrento Valley Road, Suite F, San Diego, C Phone (858) 755-5525 Fax (858)		. ,		
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: EZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	9 of 46

4. DESCRIPTION OF TESTING METHODS

4.1. Introduction

As required in 47 CFR, Parts 2 and 15, the methods employed to test the radiated and conducted emissions (as applicable) of the EUT are those contained within the American National Standards Institute (ANSI) document ANSI C63.4–2003, titled "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz." All applicable FCC Rule Sections that provide further guidance for performance of such testing are also observed.

For General Test Configuration please refer to Figure 1 on the following page.

Digital devices sold in Canada are required to comply with the Interference Causing Equipment Standard for Digital Apparatus, ICES-003. These test methods and limits are specified in the Canadian Standards Association's (CSA) Standard C108.8-M1983 (1-1-94 version) and are "essentially equivalent" with FCC, Part 15 and CISPR 22 (EN55022) rules for unintentional radiators per EMCAB-3, Issue 3 (May 1998). No further testing is required for compliance to ICES-003.

4.2. Configuration and Methods of Measurements for Conducted Emissions

Section 7 of ANSI C63.4 determines the general configuration of the EUT and associated equipment, as well as the test platform for conducted emissions testing. Tabletop devices are placed on a non-conducting surface 80 centimeters above the ground plane floor and 40 centimeters from the ground plane wall. The EUT and associated system are configured to operate continuously, representing a "normally operating" mode. The EUT is powered via a Line Impedance Stabilization Network (LISN). The emissions are recorded using the required bandwidth of 9 kHz in the quasi-peak mode. The average amplitude is also observed employing a 10 kHz bandwidth to determine the presence of broadband RFI. When such interference is caused by broadband sources (as defined by the FCC and ANSI Rules), the deviation guidelines contained in Section 11.3.1 of ANSI C63.4 are employed, which allows a correction factor of 13 dB to be subtracted from the quasi-peak reading. The emission levels are then compared to the applicable FCC limits to determine compliance.

4.3. Configuration and Methods of Measurements for Frequency Identification

When performing all testing of equipment, the actual emissions of the EUT are segregated from ambient signals present within the laboratory or the open-field test range. Preliminary testing is performed to ensure that ambient signals are sufficiently low to allow for proper observation of the emissions from the EUT. Incoming power lines are filtered using a 120 dB, 30-ampere; 115/208-volt filter to assist in reducing ambient signals for tests of levels of conducted emissions. Ambients within the laboratory are compared to those noted at the nearby open-field site to discriminate between signals produced from the EUT and ambient signals. In the event that a significant emission is produced by the EUT at a frequency which is also demonstrating significant ambient signals, the spectrum analyzer is placed in the peak mode, the bandwidth is narrowed, the EUT's signal is centered on the analyzer, the scan width is expanded to 50 kHz while monitoring the audio to ensure that only the EUT signal is present, the analyzer is switched to quasi-peak mode, and the level of the EUT signal is recorded.

Nemko USA, Inc.	A, Inc. 11696 Sorrento Valley Road, Suite F, San Diego, CA 9 Phone (858) 755-5525 Fax (858) 452-			., -
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: EZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	10 of 46

4.4. Configuration and Methods of Measurements for Radiated Emissions

Section 8 of ANSI C63.4 determines the general configuration and procedures for measuring the radiated emissions of equipment under test. Initially, the primary emission frequencies are identified inside the test lab by positioning a broadband receive antenna one meter from the EUT to locate frequencies of significant radiation. Next, the EUT and associated system are placed on a turntable on a ten meter open area test site (registered with the FCC in accord with its Rules and ANSI C63.4) and the receive antenna is located at a distance of ten meters from the EUT.

The EUT and associated system are configured to operate continuously, representing a "normally operating" mode. All significant radiated emissions are recorded when maximum radiation on each frequency is observed, in accordance with part 8 of ANSI C63.4–2003 and Section 15.33 of the FCC Rules. To ensure that the maximum emission at each discrete frequency of interest is observed, the receive antenna is varied in height from one to four meters and rotated to horizontal and vertical polarities, and the turntable is also rotated to determine the worst emitting configuration. The numerical results of the test are included herein to demonstrate compliance.

The numerical results that are applied to the emissions limits are arrived at by the following method:

Example: A=RR+CL+AF A = Amplitude dBuV/m RR = Receiver Reading dBuV CL = cable loss dB AF = antenna factor dB/m

Example Frequency = 110MHz
18.5 dBuV (spectrum analyzer reading)
+3.0 dB (cable loss @ frequency)
21.5 dBuV
+15.4 dB/m (antenna factor @ frequency)
36.9 dBuV/m Final adjusted value

The final adjusted value is then compared to the appropriate emission limit to determine compliance.

Nemko USA, Inc. 11696 Sorrento Valley Road, Suite F, San Dieg Phone (858) 755-5525 Fax (8:				
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: FZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	11 of 46

5. Test Results

5.1. Bandwidth

RSS-210 Annex 8.1(4)

(a)(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power now greater than 125mW.

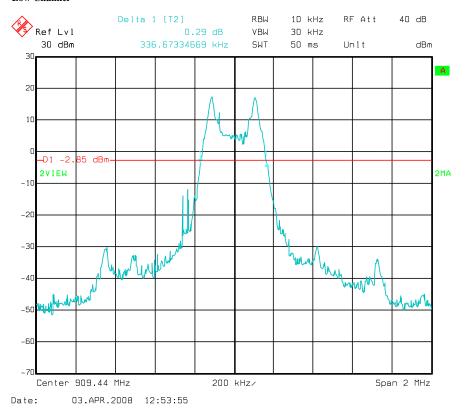
15.247(a)(1)

Test Results:

20 dB Bandwidth			
Low Channel Mid Channel High Channel			
336.6 kHz	284.5 kHz	312.6 kHz	

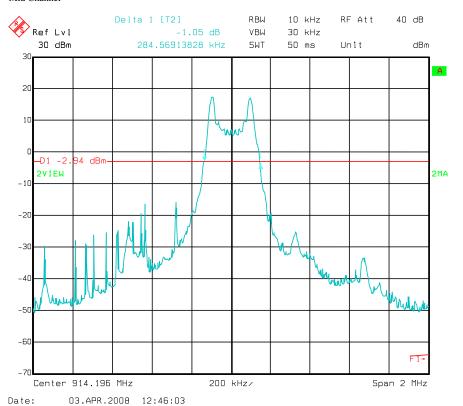
Nemko USA, Inc.	11696 Sorrento Valley Road, Suite F, San Diego, CA 92 Phone (858) 755-5525 Fax (858) 452-1			., -
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: EZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	12 of 46

Low Channel



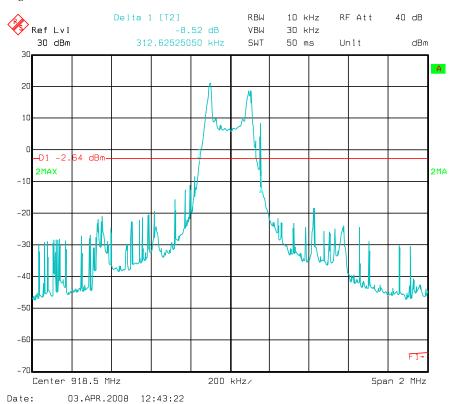
Nemko USA, Inc.	11696 Sorrento Valley Road, Suite F, San Diego, CA 921 Phone (858) 755-5525 Fax (858) 452-18			., -
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: EZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	13 of 46

Mid Channel



Nemko USA, Inc.	C. 11696 Sorrento Valley Road, Suite F, San Diego, CA 92 Phone (858) 755-5525 Fax (858) 452-1			., -
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: EZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	14 of 46

High Channel



Nemko USA, Inc.		11696 Sorrento Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810		
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: EZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	15 of 46

5.2. Duty Cycle Measurement

RSS-210 Annex 8.1(4)

Duty cycle = 375ms in 1000ms

Duty cycle is defined as ON-Time in 100ms.

Does not allow duty cycle factor to be calculated, so 10 Hz average is used.

5.3. Time of Occupancy

Clause 15.247(a)(1)(i) For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Test Conditions:

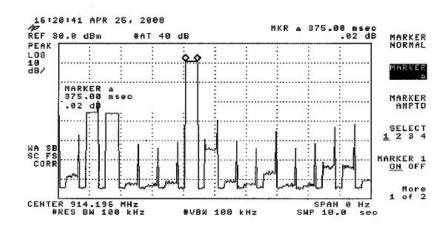
Sample Number:	NA	Temperature:	74°F
Date:	4/2/08	Humidity:	60%
Modification State:	Mid Channel	Tester:	Alan Laudani
		Laboratory:	Nemko

Test Results:

The EUT was placed 3m from the receiving antenna to allow a representative signal to fill the display > 30 dB from the noise floor. The Spectrum Analyzer RES BW was set to $100 \, kHz$. The test sample was set to hopping mode and the frequency span was set zero centered on a hopping channel. The sweep was set to $10 \, seconds$.

 $1\ \mbox{occurrence}$ in $10\ \mbox{seconds}\ x\ 0.375\ \mbox{ms}$ which is less than $400\ \mbox{ms}$ EUT complies.

Nemko USA, Inc. 11696 Sorrento Valley Road, Suite F, San Diego, C. Phone (858) 755-5525 Fax (858) 4				
DATE	DOCUMENT NAME	Ε	DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: EZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	16 of 46



Instrument used: HP8591E S/N 3303A01002 Cal by SIMCO Done 7/11/2007 Exp 7/11/2008

Nemko USA, Inc. 11696 Sorrento Valley Road, Suite F, San Diege Phone (858) 755-5525 Fax (85				
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: FZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	17 of 46

5.4. Channel Separation

Clause 15.247(a)(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Test Conditions:

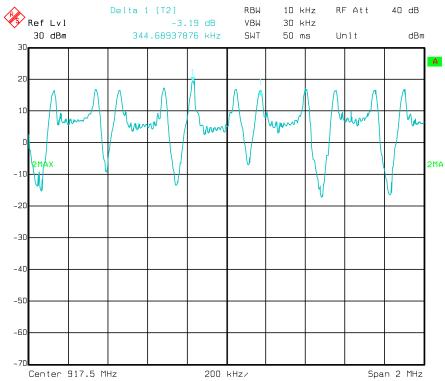
Sample Number:	NA	Temperature:	74°F
Date:	4/2/08	Humidity:	60%
Modification State:	Two or more Channels	Tester:	Alan Laudani
		Laboratory:	Nemko

Test Results:

The EUT was placed 3m from the receiving antenna to allow a representative signal to fill the display > 30 dB from the noise floor. The Spectrum Analyzer RES BW was set to 10 kHz. The test sample was set to hopping mode and the frequency span was set to a value to capture two or more hopping channels. Marker delta shows frequency separation.

Nemko USA, Inc. 11696 Sorrento Valley Road, Suite F, San Dieg Phone (858) 755-5525 Fax (8		. ,		
DATE	DOCUMENT NAME		DOCUMENT#	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: EZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	18 of 46

Channel Separation equal to the 20 dB bandwidth. $344.6\ kHz$



03.APR.2008 13:22:06 Date:

Nemko USA, Inc. 11696 Sorrento Valley Road, Suite F, San Diego, Phone (858) 755-5525 Fax (858)				
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: FZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	19 of 46

5.5. Frequency Plan

Clause 15.247(a)(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Test Conditions:

Sample Number:		Temperature:	74°F
Date:	7-30-07	Humidity:	60%
Modification State:	Lo/Mid/High Channels	Tester:	Alan Laudani
		Laboratory:	Nemko

Test Results:

The Frequency Plan is discussed in the Technical Description exhibit and was reviewed by this test engineer and was found to comply.

Nemko USA, Inc. 11696 Sorrento Valley Road, Suite F, San Dieg Phone (858) 755-5525 Fax (8:				
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: FZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	20 of 46

5.6. Number of Hopping Channels

RSS-210 Annex 8.4(2)

(c) For frequency hopping systems in the band 902-928 MHz: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping channels and the average time of occupancy on any channel shall not be greater than 0.4 seconds within a 20 second period. If the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping channels and the average time of occupancy on any channel shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Clause 15.247(a)(1)(i) For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Test Conditions:

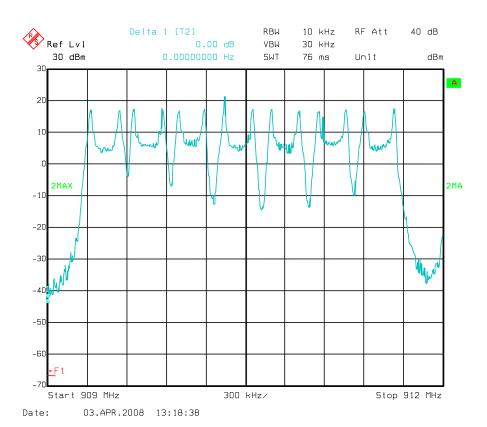
Sample Number:		Temperature:	74°F
Date:	7-30-07	Humidity:	60%
Modification State:	Lo/Mid/High Channels	Tester:	Alan Laudani
		Laboratory:	Nemko

Test Results:

The EUT was placed 3m from the receiving antenna to allow a representative signal to fill the display $> 30 \, \text{dB}$ from the noise floor. The Spectrum Analyzer RES BW was set to 30 kHz to discriminate channels. The test sample was set to hopping mode and the frequency span was set to a value small enough to display the channels to allow counting. Three continuous scans show the complete band from 902 MHz to 928 MHz and 25 channels are evident.

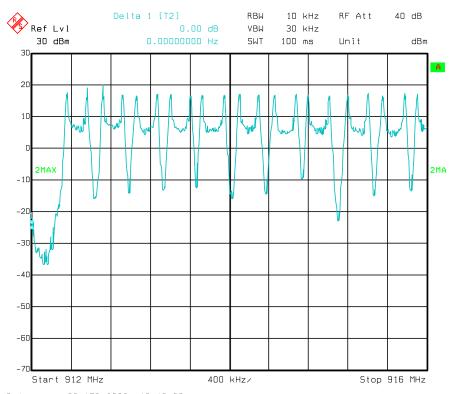
Nemko USA, Inc. 11696 Sorrento Valley Road, Suite F, San Diego, C Phone (858) 755-5525 Fax (858) 4				
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: EZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	21 of 46

7 Hopping channels



Nemko USA, Inc. 11696 Sorrento Valley Road, Suite F, San Diego, Ca		., -		
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: EZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	22 of 46

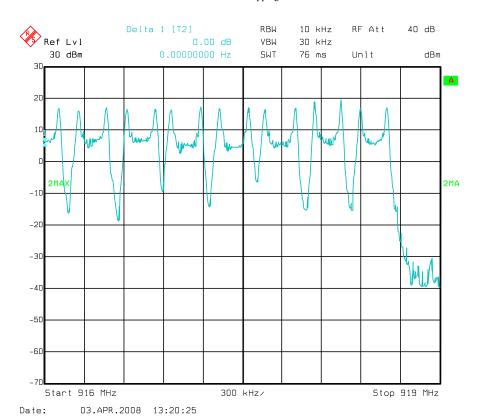
10.5 Hopping Channels



Date: 03.APR.2008 13:19:39

Nemko USA, Inc.	A, Inc. 11696 Sorrento Valley Road, Suite F, San Diego, CA 92 Phone (858) 755-5525 Fax (858) 452-1			
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: EZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	23 of 46

 $7.5 \ Hopping \ Channels \\ 7 + 10.5 + 7.5 = 25 \ Hopping \ Channels$



Nemko USA, Inc. 11696 Sorrento Valley Road, Suite F, San Die Phone (858) 755-5525 Fax (8				
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: FZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	24 of 46

5.7. Radiated Emissions Test Data

Clause 15.209(a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (uV/meter)	Measurement Distance (meter)
0.009-0.490	2400/F (kHz)	300
0.490-1.705	24000/F (kHz)	30
1.705-30.0	30	3
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Sec. 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Sec. 15.205(a) must also comply with the radiated emission limits specified in Sec. 15.205(c)).

Test Conditions:

Sample Number:		Temperature:	
Date:	4/3/08	Humidity:	
Modification State:	Lo/Mid/High Channels	Tester:	A. Laudani
<u> </u>		Laboratory:	SOATS

Test Results: See Table Below

Additional Observations:

Emissions were searched over a range of 30 MHz to 10000 MHz

Three orthogonal axes were tried to maximize emissions. Worst case was used in measurements presented.

No emissions were detected in receive mode.

There are no emissions found that apply to the restricted bands defined in FCC Part 15 Subpart C, 15.205. Measurements below 1GHz were performed at 3m with a Quasi-Peak detector while Peak and Average detectors were used above 1GHz.

OATS: IC Site #: 2040B-1; RN#: 90579

Nemko USA, Inc. 11696 Sorrento Valley Road, Suite F, San Diego, Ca Phone (858) 755-5525 Fax (858) 4		., -		
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: EZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	25 of 46

Example Frequency = 4571.0 MHz 42.7dBµV (Peak spectrum analyzer reading) +12.4 dB (cable loss @ frequency) +32.7 dB/m_(antenna factor @ frequency) -35.8dB (PreAmp Gain @ frequency) 52.0 dBµV/m Final adjusted value

				R	adiated	l Emissio	ns Data				
Job # :		12227-1		_	Date :	4/3/08	_	Page	1	of	_1_
NEX #:		104605				1440 AAL	-				
Client Nam	ne:	Directed Ele	ctronics		Stair .	AAL	-	EUT Vol	tage :		12Vdc
EUT Name	e:	Vehicle Tran	sceiver	r			_	EUT Fre	quency	:	dc
EUT Mode		6711T					_	Phase:			
EUT Serial		NA					_	NOATS			
EUT Config	g. :	Transmitting	cont	inuous	single cl	nannel	_	SOATS			X
								Distance			3 m
				_				Distance	> 1000	MHz:	3 m
Specification		CFR47 Part	15, Sub	opart C,	15.205		_				
_oop Ant. #		NA NA	_	_	(0.0)					Quasi-P	
Bicon Ant.	#:	128	_		ip. (°C):		_				Video Bandwidth 300
_og Ant.#:		110	-		lity (%) :		_			Peak	RBW: 1 MI
DRG Ant. #		529			ec An.#:	911	-			_	Video Bandwidth 3 Mi
Cable LF#:		SOATs	. Sp	ec An. D		911	_			Average	
Cable HF#	:	60ft	Sp		QP #:	911	- -				Video Bandwidth 10 H
Cable HF# Preamp LF	: #:	60ft 901	Sp				- -			GHz are Q	Video Bandwidth 10 F uasi-Peak values, unless otherwise
Cable HF# Preamp LF	: #:	60ft	_ Sp		QP #:	911	- - -			GHz are Q	Video Bandwidth 10 H
Cable HF#	: #:	60ft 901	Det.		QP #:	911	Corrected			GHz are Q	Video Bandwidth 10 F uasi-Peak values, unless otherwise
Cable HF# Preamp LF Preamp HF	: F#: F#	60ft 901 317		Pre	QP #: Select#:	911 NA	Corrected Reading	Measu	rements abov	GHz are Q re 1 GHz are	Video Bandwidth 10 F uasi-Peak values, unless otherwise
Cable HF# Preamp LF Preamp HF Meas.	: F#: F# Meter	60ft 901 317		Pre	QP #: Select#:	911 NA Max.		Measu Spec.	CR/SL	GHz are Que 1 GHz are	Video Bandwidth 10 F uasi-Peak values, unless otherwise
Cable HF# Preamp LF Preamp HF Meas. Freq. (MHz)	: F#: F# Meter Reading	60ft 901 317 Meter Reading		Pre EUT Side	QP #: Select#:	911 NA Max. Reading	Reading	Measu Spec. Iimit	CR/SL Diff.	GHz are Que 1 GHz are	Video Bandwidth 10 F uasi-Peak values, unless otherwise e Average values, unless otherwise
Cable HF# Preamp LF Preamp HF Meas. Freq. (MHz)	:: F#: F# Meter Reading Vertical	60ft 901 317 Meter Reading Horizontal	Det.	Pre EUT Side	QP #: Select#: Ant. Height m	911 NA Max. Reading (dBµV)	Reading (dBµV/m)	Spec. limit (dBµV/m)	CR/SL Diff. (dB)	GHz are Que 1 GHz are Pass Fail	Video Bandwidth 10 F uasi-Peak values, unless otherwise e Average values, unless otherwise
Cable HF# Preamp LF Preamp HF Meas. Freq. (MHz) 909.4 4547.2	Meter Reading Vertical	60ft 901 317 Meter Reading Horizontal	Det.	Pre EUT Side	QP #: Select#: Ant. Height m	911 NA Max. Reading (dBµV)	Reading (dBµV/m)	Spec. limit (dBµV/m)	CR/SL Diff. (dB)	GHz are Q ve 1 GHz are Pass Fail	Video Bandwidth 10 F uasi-Peak values, unless otherwise e Average values, unless otherwise
Cable HF# Preamp LF Preamp HF Meas. Freq. (MHz)	:: F#: F# Meter Reading Vertical	60ft 901 317 Meter Reading Horizontal	Det.	Pre EUT Side	QP #: Select#: Ant. Height m	911 NA Max. Reading (dBµV)	Reading (dBµV/m)	Spec. limit (dBµV/m)	CR/SL Diff. (dB)	GHz are Que 1 GHz are Pass Fail	Video Bandwidth 10 F uasi-Peak values, unless otherwise e Average values, unless otherwise
Cable HF# Preamp LF Preamp HF Meas. Freq. (MHz) 909.4 4547.2 4547.2	Meter Reading Vertical	60ft 901 317 Meter Reading Horizontal	Det.	Pre EUT Side	QP #: Select#: Ant. Height m	911 NA Max. Reading (dBµV)	Reading (dBµV/m)	Spec. limit (dBµV/m)	CR/SL Diff. (dB)	GHz are Q ve 1 GHz are Pass Fail	Video Bandwidth 10 F uasi-Peak values, unless otherwise e Average values, unless otherwise
Cable HF# Preamp LF Preamp HF Meas. Freq. (MHz) 909.4 4547.2 4547.2	#: ##: Meter Reading Vertical 48.1 36.3	60ft 901 317 Meter Reading Horizontal 45.5 34.8	Det.	Pre EUT Side	QP #: Select#: Ant. Height m	911 NA Max. Reading (dBµV) 48.1 36.3	Reading (dBµV/m) 57.4 45.6	Spec. limit (dBµV/m) 74.0 54.0	CR/SL Diff. (dB)	GHz are Que 1 GHz are Pass Fail Pass Fail Pass Pass	Video Bandwidth 10 F uasi-Peak values, unless otherwise e Average values, unless otherwise
Cable HF# Preamp LF Preamp LF Preamp HF Meas. Freq. (MHz) 909.4 4547.2 4547.2 914.196 4571.0	######################################	60ft 901 317 Meter Reading Horizontal 45.5 34.8	Det.	Pre EUT Side	QP#: Select#: Ant. Height m	911 NA Max. Reading (dBµV) 48.1 36.3	Reading (dBµV/m) 57.4 45.6	Spec. limit (dBμV/m) 74.0 54.0	CR/SL Diff. (dB) -16.6 -8.4	GHz are Que 1 GHz are Pass Fail Pass Pass Pass Pass	Video Bandwidth 10 F uasi-Peak values, unless otherwise e Average values, unless otherwise
Cable HF# Preamp LF Preamp HF Meas. Freq. (MHz) 909.4 4547.2 4547.2	#: ##: Meter Reading Vertical 48.1 36.3	60ft 901 317 Meter Reading Horizontal 45.5 34.8	Det.	Pre EUT Side	QP #: Select#: Ant. Height m	911 NA Max. Reading (dBµV) 48.1 36.3	Reading (dBµV/m) 57.4 45.6	Spec. limit (dBµV/m) 74.0 54.0	CR/SL Diff. (dB)	GHz are Que 1 GHz are Pass Fail Pass Fail Pass Pass	Video Bandwidth 10 F uasi-Peak values, unless otherwise e Average values, unless otherwise
Preamp LF Preamp LF Preamp HF Meas. Freq. (MHz) 909.4 4547.2 4547.2 914.196 4571.0	######################################	60ft 901 317 Meter Reading Horizontal 45.5 34.8	Det.	Pre EUT Side	QP#: Select#: Ant. Height m	911 NA Max. Reading (dBµV) 48.1 36.3	Reading (dBµV/m) 57.4 45.6	Spec. limit (dBμV/m) 74.0 54.0	CR/SL Diff. (dB) -16.6 -8.4	GHz are Que 1 GHz are Pass Fail Pass Pass Pass Pass	Video Bandwidth 10 F uasi-Peak values, unless otherwise e Average values, unless otherwise
Cable HF# Preamp LF Preamp LF Preamp Hf Meas. Freq. (MHz) 909.4 4547.2 914.196 4571.0 4571.0	######################################	60ft 901 317 Meter Reading Horizontal 45.5 34.8	Det.	Pre EUT Side	QP#: Select#: Ant. Height m	911 NA Max. Reading (dBµV) 48.1 36.3	Reading (dBµV/m) 57.4 45.6	Spec. limit (dBμV/m) 74.0 54.0	CR/SL Diff. (dB) -16.6 -8.4	GHz are Que 1 GHz are Pass Fail Pass Pass Pass Pass	Video Bandwidth 10 F uasi-Peak values, unless otherwise e Average values, unless otherwise

Nemko USA, Inc.	emko USA, Inc. 11696 Sorrento Valley Road, Suite F, San Diego, Phone (858) 755-5525 Fax (858)			
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test FCC ID: EZSDEI6711 IC:		2008 0412227 FCC	26 of 46

5.8. Conducted Output Power

RSS-210 A8.4 Transmitter Output Power and e.i.r.p. Requirements

- (1) For frequency hopping systems operating in the band 902-928 MHz, the maximum peak conducted output power shall not exceed 1.0 W, and the e.i.r.p. shall not exceed 4 W, if the hopset uses 50 or more hopping channels; the maximum peak conducted output power shall not exceed 0.25 W, and the e.i.r.p. shall not exceed 1 W, if the hopset uses less than 50 hopping channels.
- 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following:...
- (2) For frequency hopping systems operating in the 902–928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.

Test Conditions:

Sample Number:		Temperature:	72°F
Date:	4-3-8	Humidity:	60%
Modification State:	Lo/Mid/High Channels	Tester:	A. Laudani
		Laboratory:	SOATS

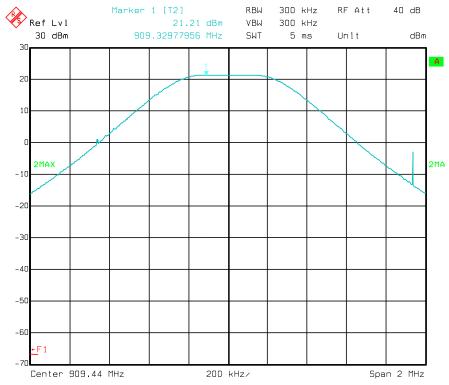
Test Results:

A cable was temporarily soldered across the input to the circuit comprising the antenna. Peak measurements were taken with a spectrum analyzer. Plots shown below. Power measurements were not affected when the power supply was varied from 10.2 to 13.8 VDC.

Co	Conducted Output Power dBm			
Low Channel	Mid Channel	High Channel		
21.2	21.06	20.95		

Nemko USA, Inc.		11696 Sorrento Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810		
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test FCC ID: EZSDEI6711 IC:		2008 0412227 FCC	27 of 46

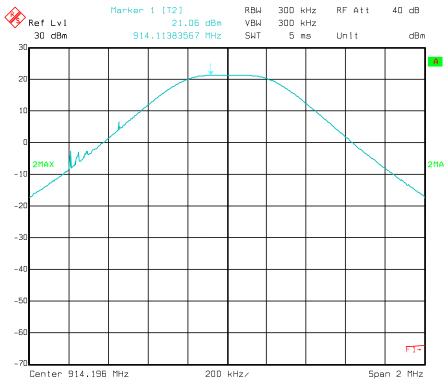
Low Channel.



Date: 03.APR.2008 12:56:26

Nemko USA, Inc.			Valley Road, Suite F, San Dieg Phone (858) 755-5525 Fax (85	
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test FCC ID: EZSDEI6711 IC:	· K · · ·	2008 0412227 FCC	28 of 46

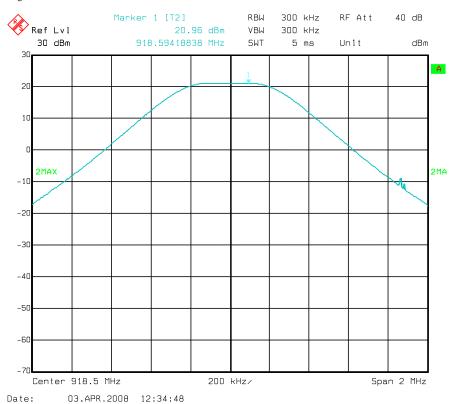
Mid Channel.



Date: 03.APR.2008 12:46:49

Nemko USA, Inc.		11696 Sorrento	Valley Road, Suite F, San Dieg Phone (858) 755-5525 Fax (8:	., -
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test FCC ID: EZSDEI6711 IC:		2008 0412227 FCC	29 of 46

High Channel.



Nemko USA, Inc.		11696 Sorrento	Valley Road, Suite F, San Dieg Phone (858) 755-5525 Fax (8:	., -
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test FCC ID: EZSDEI6711 IC:	· K · · ·	2008 0412227 FCC	30 of 46

5.9. Conducted Spurious

15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Sec. 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Sec. 15.205(a) must also comply with the radiated emission limits specified in Sec. 15.209(a) (see Sec. 15.205(c)).

Test Conditions:

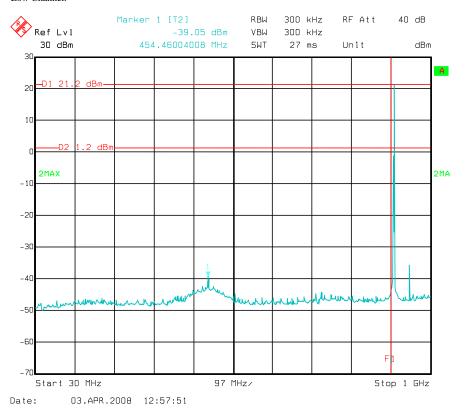
Sample Number:		Temperature:	72°F
Date:	4-3-8	Humidity:	60%
Modification State:	Lo/Mid/High Channels	Tester:	A. Laudani
		Laboratory:	SOATS

Test Results:

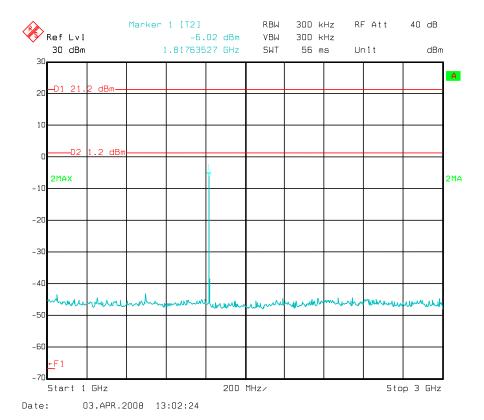
A cable was temporarily soldered across the input to the circuit comprising the antenna. Peak measurements were taken with a spectrum analyzer. Plots shown below. Limit line inserted at 20 dBc.

Nemko USA, Inc.		11696 Sorrento	Valley Road, Suite F, San Dieg Phone (858) 755-5525 Fax (8:	., -
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test FCC ID: EZSDEI6711 IC:		2008 0412227 FCC	31 of 46

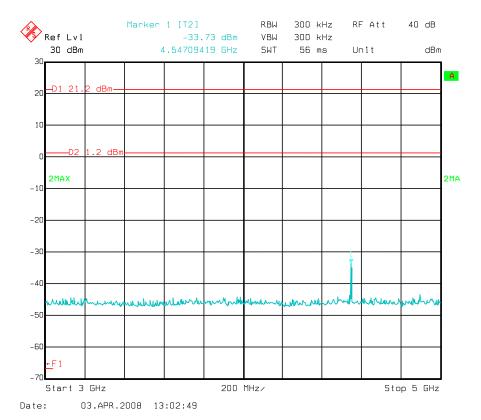
Low Channel.



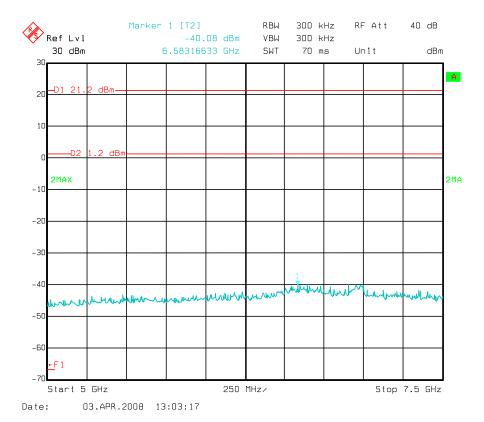
Nemko USA, Inc.		11696 Sorrento	ento Valley Road, Suite F, San Diego, CA 9212 Phone (858) 755-5525 Fax (858) 452-181	
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test FCC ID: EZSDEI6711 IC: 1	•	2008 0412227 FCC	32 of 46



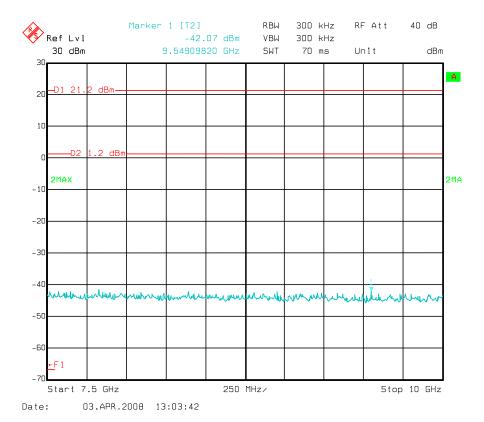
Nemko USA, Inc.		11696 Sorrento	to Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810	
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test FCC ID: EZSDEI6711 IC: 1	•	2008 0412227 FCC	33 of 46



		Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810		
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test FCC ID: EZSDEI6711 IC: 1	•	2008 0412227 FCC	34 of 46

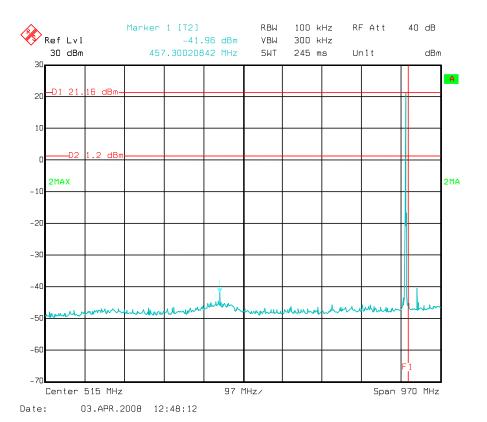


Nemko USA, Inc. 11696 Sorrento Valley Road, Suite F, Sar Phone (858) 755-5525 1		Valley Road, Suite F, San Dieg Phone (858) 755-5525 Fax (8:		
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test FCC ID: EZSDEI6711 IC: 1	•	2008 0412227 FCC	35 of 46

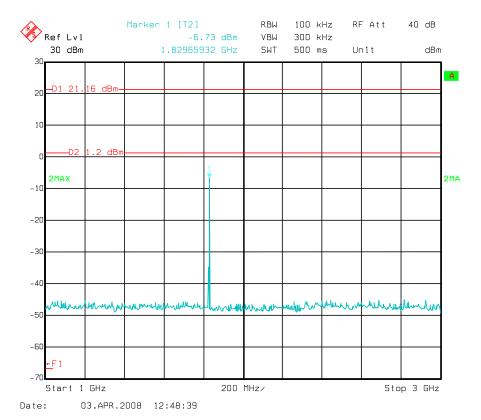


Nemko USA, Inc.		11696 Sorrento	orrento Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810	
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: EZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	36 of 46

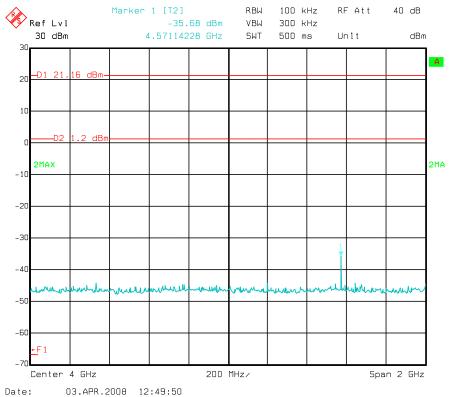
Mid Channel.



Nemko USA, Inc. 11696 Sorrento Valley Road, Suite F, Sar Phone (858) 755-5525 1		Valley Road, Suite F, San Dieg Phone (858) 755-5525 Fax (8:	., -	
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: EZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	37 of 46

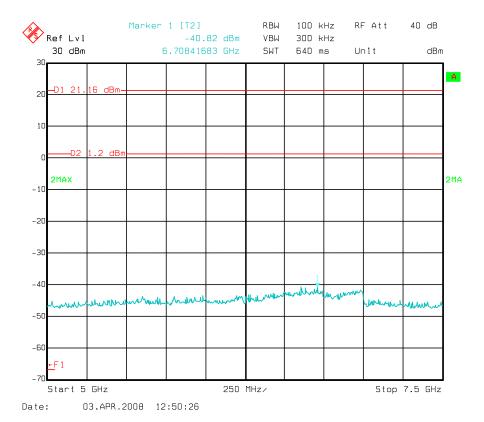


		alley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810		
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test FCC ID: EZSDEI6711 IC: 1	•	2008 0412227 FCC	38 of 46

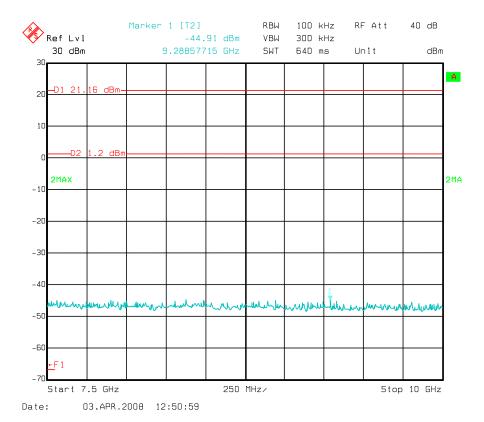


Date: 03.APR.2008 12:49:50 Center 4 GHz, span 2 GHz equal to 3 to 5 GHz

Nemko USA, Inc. 11696 Sorrento Valley Road, Suite Phone (858) 755-:		Valley Road, Suite F, San Dieg Phone (858) 755-5525 Fax (8:		
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test FCC ID: EZSDEI6711 IC: 1	•	2008 0412227 FCC	39 of 46

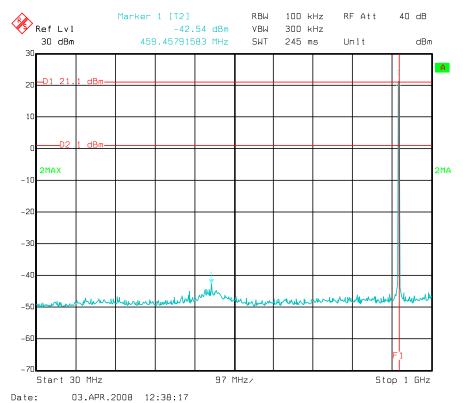


		Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810		
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test FCC ID: EZSDEI6711 IC: 1	•	2008 0412227 FCC	40 of 46

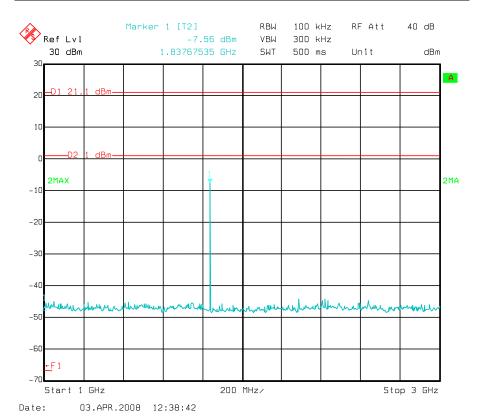


Nemko USA, Inc. 11696 Sorrent		11696 Sorrento	Valley Road, Suite F, San Dieg Phone (858) 755-5525 Fax (8	
DATE	DOCUMENT NAME		DOCUMENT#	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: EZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	41 of 46

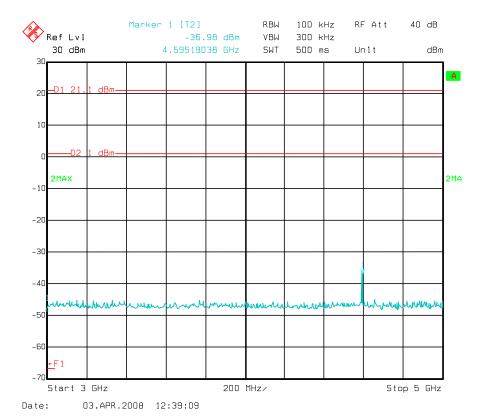
High Channel.



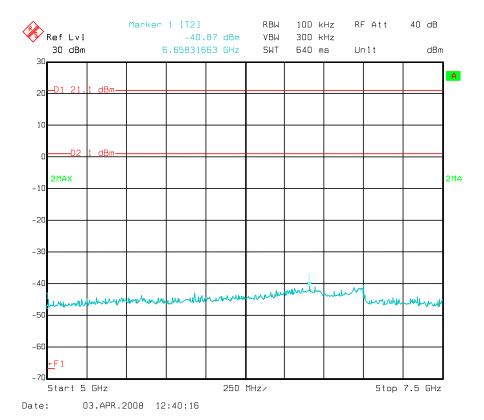
Nemko USA, Inc. 11696 Sorrento Valley Road, Suite F, San Diege Phone (858) 755-5525 Fax (85		., -		
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test Report FCC ID: EZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	42 of 46



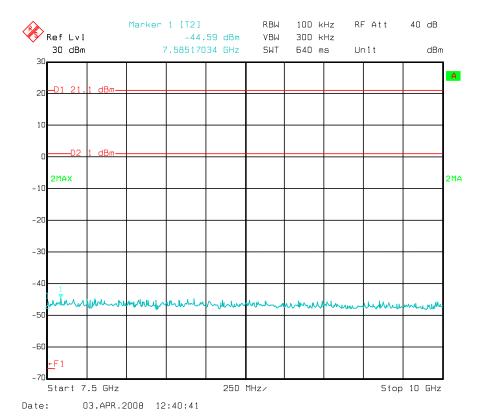
Nemko USA, Inc. 11696 Sorrento Valley Road, Suite F, S Phone (858) 755-5525		Valley Road, Suite F, San Dieg Phone (858) 755-5525 Fax (8:		
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test FCC ID: EZSDEI6711 IC: 1	•	2008 0412227 FCC	43 of 46



			oad, Suite F, San Diego, CA 92121 858) 755-5525 Fax (858) 452-1810	
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test FCC ID: EZSDEI6711 IC: 1	•	2008 0412227 FCC	44 of 46



Nemko USA, Inc. 11696 Sorrento Valley Road, Suite F Phone (858) 755-55		Valley Road, Suite F, San Dieg Phone (858) 755-5525 Fax (8:		
DATE	DOCUMENT NAME		DOCUMENT #	PAGE
June 19, 2008	6711T Certification Test FCC ID: EZSDEI6711 IC: 1	•	2008 0412227 FCC	45 of 46



Nemko USA, Inc.		11696 Sorrento Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810			
DATE	DOCUMENT NAME		DOCUMENT #	PAGE	
June 19, 2008	6711T Certification Test Report FCC ID: EZSDEI6711 IC: 1513A-6711		2008 0412227 FCC	46 of 46	

5.10. Test Equipment

Nemko						
ID	Device	Manufacturer	Model	Serial Number	Cal Date	Cal Due Date
128	Antenna, Bicon	EMCO	3104	2996	10-Jan-08	10-Jan-09
110	Antenna, LPA	EMCO	3146	1382	10-Jan-08	10-Jan-09
901	pre amp	Sonoma	310 N	130607	13-Mar-08	13-Mar-09
625	Antenna, Dbl Ridge Horn	EMCO	3116	2325	01-Apr-08	01-Apr-09
317	Preamp	HP	8449A	2749A00167	31-Mar-08	31-Mar-09
911	Spectrum Analyzer	Agilent	E4440A	US41421266	18-Mar-08	18-Mar-09
835	Spectrum Analyzer	Rohde & Schwarz	RHDFSEK	829058/005	20-Jun-07	20-Jun-08
529	Antenna, DRWG	EMCO	3115	2505	27-Aug-07	27-Aug-08
NA	DC Power Supply	Xantrex	XT-30-2	NA	NCR	NCR
815	Multimeter	Fluke	111	78130066	7/9/2007	07/09/08