



Nemko Test Report: 2014 01247316 FCC

Applicant: Linear LLC
1950 Camino Vida Roble
Carlsbad, CA 92008
USA

**Equipment Under Test:
(E.U.T.)** SW-ATT-GDC

FCC ID: EF400117

Industry Canada: 1078A-00117

In Accordance With: **FCC Part 15, Subpart C, 15.249 and Industry
Canada RSS-210, Issue 8**
Operation within the bands 902-928 MHz,
2400-2483.5 MHz, 5725-5875 MHz, and
24.0-24.25 GHz.

Tested By: Nemko USA Inc.
2210 Faraday Ave.
Suite 150
Carlsbad, CA 92008

TESTED BY:



David Light, Wireless Engineer

DATE:

15 January 2014

APPROVED BY:



Alan Laudani
Senior RF/EMC Engineer

DATE:

25 January 2014

Total Number of Pages: 21

Table of Contents

SECTION 1. SUMMARY OF TEST RESULTS	3
SECTION 2. GENERAL EQUIPMENT SPECIFICATION	5
SECTION 3. POWERLINE CONDUCTED EMISSIONS	6
SECTION 4. RADIATED EMISSIONS	9
SECTION 5. RECEIVER SPURIOUS EMISSIONS	18
SECTION 6. TEST EQUIPMENT LIST	21
ANNEX A TEST DIAGRAMS	22

Section 1. Summary Of Test Results

Manufacturer: Linear LLC

Model No.: GD00Z-1

Serial No.: None

General: **All measurements are traceable to national standards.**

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 15.249 and Industry Canada RSS-210, Issue 8. All tests were conducted using measurement procedure ANSI C63.4-2003. Radiated Emissions were made in a semi-anechoic chamber. A description of the test facility is on file with the FCC and Industry Canada.



New Submission



Production Unit



Class II Permissive Change



Pre-Production Unit

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.

See " Summary of Test Data".



NVLAP Lab Code 200116-0

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Nemko USA, Inc. is a NVLAP accredited laboratory.

Nemko USA Inc. authorizes the above named company to reproduce this report provided it is reproduced in its entirety and for use by the company's employees only.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Nemko USA Inc. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. This report applies only to the items tested.

Summary Of Test Data

NAME OF TEST	PARA. NO.	RESULT
Conducted Emissions	FCC 15.207 / RSS-Gen 7.2.4	Complies
Radiated Emissions	FCC 15.249 / RSS-210 A2.9	Complies
Receiver Spurious Emissions	RSS-Gen 6.1	Complies

Section 2. General Equipment Specification**Frequency Range:** 902 – 928 MHz**Operating Frequencies of Sample:** 908.42 to 919.78 MHz**Tunable Bands:** None**Number of Channels:** 4**Modulation:** OOK**Emissions Designator:** 30KA1D**User Frequency Adjustment:** None**Integral Antenna****Yes****No****Description of EUT**

The SW-ATT-GDC will allow a Lowes Iris Home control system to monitor the status of the Garage door via an RF tilt sensor and provide this information to the control system for home security monitoring. The Iris system will talk with the SW-ATT-GDC to allow unattended operation of the Garage door with a relay contact closure to the wall panel input terminals at the GDO, IF the conditions (set by UL standard 325) are met. The SW-ATT-GDC will provide a flashing bright white lamp and Buzzer sound as a warning signal required by the UL standard. The Contact closure points will also be monitored in the occurrence of someone pressing the button at the garage wall panel during the UL 325 defined warning period. The SW-ATT-GDC also includes a 433.92MHz radio receiver circuit to receive the status of the door sensor position and condition.

Section 3. Powerline Conducted Emissions

NAME OF TEST: Powerline Conducted Emissions	PARA. NO.: 15.207 / 7.2.4
TESTED BY: David Light	DATE: 16 December 2013

Minimum Standard: Conducted limits.

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 mH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of Emission (MHz)	Conducted Quasi-peak	Limit (dBmV)	
		Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5	56	46	
5-30	60	50	

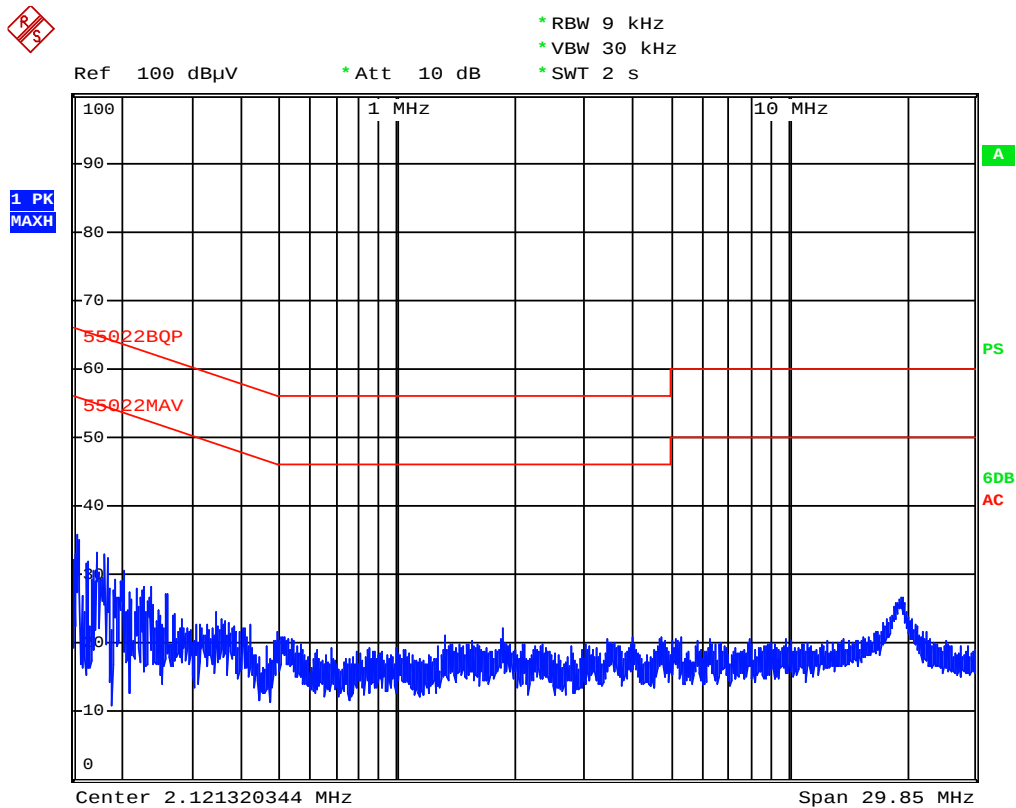
* Decreases with the logarithm of the frequency.

Test Results: Complies . See attached graph(s).

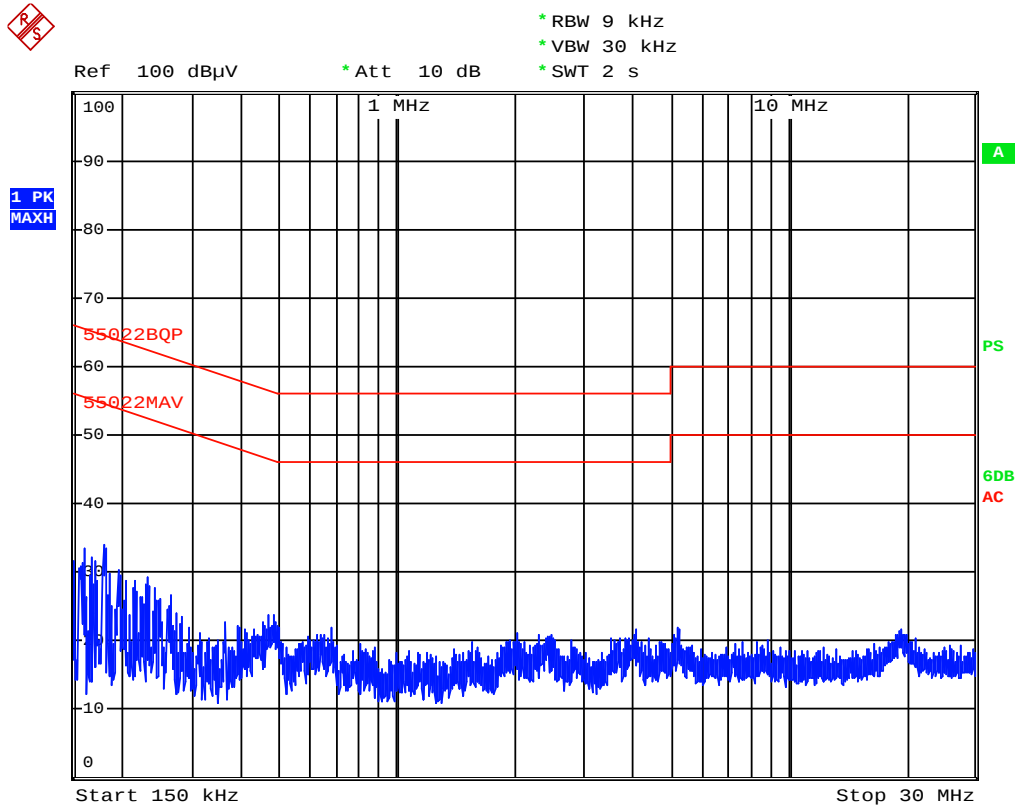
Measurement Data: See attached graph(s).

Method of Measurement: (Procedure ANSI C63.4-2003)

Measurements were made using a spectrum analyzer with 10 kHz RBW, Peak Detector. Any emissions that are close to the limit are measured using a test receiver with 10 kHz bandwidth, CISPR Quasi-Peak Detector.

Test Data – Powerline Conducted Emissions (Line 1)

Date: 16.DEC.2013 16:07:39

Test Data – Powerline Conducted Emissions (Neutral)

Date: 16.DEC.2013 16:08:41

Section 4. Radiated Emissions

NAME OF TEST: Radiated Emissions	PARA. NO.: 15.249 / A2.4
TESTED BY: David Light	DATE: 16 December 2013

Minimum Standard: Para no. 15.249

(a) The field strengths shall not exceed the following:

Carrier (MHz)	Field Strength (mV/m)	Field Strength (dB μ V)	Harmonic (μ V/m)	Harmonic (dB μ V)
902-928	50	94	500	54
2400-2483.5	50	94	500	54
5725-5875	50	94	500	54
24000-24250	250	108	2500	68

(b) Field strength limits are specified at a distance of 3 metres.

(c) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated limits of 15.209 whichever is the less attenuation.

(d) ...for frequencies above 1000 MHz, the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

Test Results: Complies

Measurement Data: See attached table.

Test Data - Radiated Emissions (Peak)

Low Channel

Analyzer Settings: <1000 MHz RBW = 100 kHz VBW = 300 kHz Peak Detector
>1000 MHz RBW = 1 MHz VBW = 3 MHz Peak Detector

Meas. Freq. (MHz)	Ant. Pol. (H/V)	Atten. (dB)	Meter Reading (dBuV)	Antenna Factor (dB)	Path Loss (dB)	RF Gain (dB)	Corrected Reading (dBuV/m)	Spec. limit (dBuV/m)	CR/SL Diff. (dB)	Pass Fail Unc.	Comment
											Lower Channel
908.42	H	0	64.0	23.5	6.1	0.0	93.6	94.0	-0.4	Pass	Peak
1816.84	H	0	29.0	26.5	7.6	31.5	31.6	74.0	-42.4	Pass	Peak
2725.26	H	0	34.0	28.9	10.2	30.8	42.3	74.0	-31.7	Pass	Peak
3633.68	H	0	34.0	31.5	10.6	31.7	44.4	74.0	-29.6	Pass	Peak
4542.10	H	0	32.3	32.3	11.1	30.7	45.0	74.0	-29.0	Pass	Peak
5450.52	H	0	30.0	34.3	12.3	30.3	46.3	74.0	-27.7	Pass	Peak
6358.94	H	0	30.4	34.5	12.9	30.0	47.8	74.0	-26.2	Pass	Peak
7267.36	H	0	29.9	35.9	13.3	30.8	48.3	74.0	-25.7	Pass	Peak
8175.78	H	0	29.0	36.9	14.0	31.7	48.2	74.0	-25.8	Pass	Peak
9084.20	H	0	29.9	37.6	15.0	33.8	48.7	74.0	-25.3	Pass	Peak
908.42	V	0	59.3	23.5	6.1	0.0	88.9	94.0	-5.1	Pass	Peak
1816.84	V	0	29.0	26.5	7.6	31.5	31.6	74.0	-42.4	Pass	Peak
2725.26	V	0	34.0	28.9	10.2	30.8	42.3	74.0	-31.7	Pass	Peak
3633.68	V	0	34.0	31.5	10.6	31.7	44.4	74.0	-29.6	Pass	Peak
4542.10	V	0	32.3	32.3	11.1	30.7	45.0	74.0	-29.0	Pass	Peak
5450.52	V	0	30.0	34.3	12.3	30.3	46.3	74.0	-27.7	Pass	Peak
6358.94	V	0	30.4	34.5	12.9	30.0	47.8	74.0	-26.2	Pass	Peak
7267.36	V	0	29.9	35.9	13.3	30.8	48.3	74.0	-25.7	Pass	Peak
8175.78	V	0	29.0	36.9	14.0	31.7	48.2	74.0	-25.8	Pass	Peak
9084.20	V	0	29.9	37.6	15.0	33.8	48.7	54.0	-5.3	Pass	Peak

Test Data - Radiated Emissions (Average)

Low Channel

Analyzer Settings: <1000 MHz RBW = 100 kHz VBW = 100 kHz Peak Detector
>1000 MHz RBW = 1 MHz VBW = 10 MHz RMS Detector

Meas. Freq. (MHz)	Ant. Pol. (H/V)	Atten. (dB)	Meter Reading (dBuV)	Antenna Factor (dB)	Path Loss (dB)	RF Gain (dB)	Corrected Reading (dBuV/m)	Spec. limit (dBuV/m)	CR/SL Diff. (dB)	Pass Fail Unc.	Comment
											Lower Channel
908.42	H	0	63.7	23.5	6.1	0.0	93.3	94.0	-0.7	Pass	Average
1816.84	H	0	24.5	26.5	7.6	31.5	27.1	54.0	-26.9	Pass	Average
2725.26	H	0	29.5	28.9	10.2	30.8	37.8	54.0	-16.2	Pass	Average
3633.68	H	0	29.5	31.5	10.6	31.7	39.9	54.0	-14.1	Pass	Average
4542.10	H	0	27.8	32.3	11.1	30.7	40.5	54.0	-13.5	Pass	Average
5450.52	H	0	25.5	34.3	12.3	30.3	41.8	54.0	-12.2	Pass	Average
6358.94	H	0	25.9	34.5	12.9	30.0	43.3	54.0	-10.7	Pass	Average
7267.36	H	0	25.4	35.9	13.3	30.8	43.8	54.0	-10.2	Pass	Average
8175.78	H	0	24.5	36.9	14.0	31.7	43.7	54.0	-10.3	Pass	Average
9084.20	H	0	25.4	37.6	15.0	33.8	44.2	54.0	-9.8	Pass	Average
908.42	V	0	54.8	23.5	6.1	0.0	84.4	94.0	-9.6	Pass	Average
1816.84	V	0	24.5	26.5	7.6	31.5	27.1	54.0	-26.9	Pass	Average
2725.26	V	0	29.5	28.9	10.2	30.8	37.8	54.0	-16.2	Pass	Average
3633.68	V	0	29.5	31.5	10.6	31.7	39.9	54.0	-14.1	Pass	Average
4542.10	V	0	27.8	32.3	11.1	30.7	40.5	54.0	-13.5	Pass	Average
5450.52	V	0	25.5	34.3	12.3	30.3	41.8	54.0	-12.2	Pass	Average
6358.94	V	0	25.9	34.5	12.9	30.0	43.3	54.0	-10.7	Pass	Average
7267.36	V	0	25.4	35.9	13.3	30.8	43.8	54.0	-10.2	Pass	Average
8175.78	V	0	24.5	36.9	14.0	31.7	43.7	54.0	-10.3	Pass	Average
9084.20	V	0	25.4	37.6	15.0	33.8	44.2	54.0	-9.8	Pass	Average

Test Data - Radiated Emissions (Peak)**Mid Channel**

Analyzer Settings: <1000 MHz RBW = 100 kHz VBW = 300 kHz Peak Detector
>1000 MHz RBW = 1 MHz VBW = 3 MHz Peak Detector

Meas. Freq. (MHz)	Ant. Pol. (H/V)	Atten. (dB)	Meter Reading (dBuV)	Antenna Factor (dB)	Path Loss (dB)	RF Gain (dB)	Corrected Reading (dBuV/m)	Spec. limit (dBuV/m)	CR/SL Diff. (dB)	Pass Fail Unc.	Comment
											Mid Channel
911.80	H	0	64.0	23.5	6.1	0.0	93.6	94.0	-0.4	Pass	Peak
1823.60	H	0	40.0	26.5	7.6	31.5	42.6	54.0	-11.4	Pass	Peak
2735.40	H	0	39.6	28.9	10.2	30.8	47.9	74.0	-26.1	Pass	Peak
3647.20	H	0	38.3	31.5	10.6	31.7	48.7	74.0	-25.3	Pass	Peak
4559.00	H	0	38.3	32.3	11.1	30.7	51.0	74.0	-23.0	Pass	Peak
5470.80	H	0	35.9	34.3	12.3	30.3	52.2	74.0	-21.8	Pass	Peak
6382.60	H	0	35.0	34.5	12.9	30.0	52.4	74.0	-21.6	Pass	Peak
7294.40	H	0	34.8	35.9	13.3	30.8	53.2	74.0	-20.8	Pass	Peak
8206.20	H	0	34.0	36.9	14.0	31.7	53.2	74.0	-20.8	Pass	Peak
9118.00	H	0	35.4	37.6	15.0	33.8	54.2	74.0	-19.8	Pass	Peak
911.80	V	0	59.3	23.5	6.1	0.0	88.9	94.0	-5.1	Pass	Peak
1823.60	V	0	40.0	26.5	7.6	31.5	42.6	74.0	-31.4	Pass	Peak
2735.40	V	0	39.6	28.9	10.2	30.8	47.9	74.0	-26.1	Pass	Peak
3647.20	V	0	38.3	31.5	10.6	31.7	48.7	74.0	-25.3	Pass	Peak
4559.00	V	0	38.3	32.3	11.1	30.7	51.0	74.0	-23.0	Pass	Peak
5470.80	V	0	35.9	34.3	12.3	30.3	52.2	74.0	-21.8	Pass	Peak
6382.60	V	0	35.0	34.5	12.9	30.0	52.4	74.0	-21.6	Pass	Peak
7294.40	V	0	34.8	35.9	13.3	30.8	53.2	74.0	-20.8	Pass	Peak
8206.20	V	0	34.0	36.9	14.0	31.7	53.2	74.0	-20.8	Pass	Peak
9118.00	V	0	35.4	37.6	15.0	33.8	54.2	74.0	-19.8	Pass	Peak

Test Data - Radiated Emissions (Average)

Mid Channel

Analyzer Settings: <1000 MHz RBW = 100 kHz VBW = 100 kHz Peak Detector
>1000 MHz RBW = 1 MHz VBW = 10 MHz RMS Detector

Meas. Freq. (MHz)	Ant. Pol. (H/V)	Atten. (dB)	Meter Reading (dBuV)	Antenna Factor (dB)	Path Loss (dB)	RF Gain (dB)	Corrected Reading (dBuV/m)	Spec. limit (dBuV/m)	CR/SL Diff. (dB)	Pass Fail Unc.	Comment
											Mid Channel
911.80	H	0	63.5	23.5	6.1	0.0	93.1	94.0	-0.9	Pass	Average
1823.60	H	0	34.0	26.5	7.6	31.5	36.6	54.0	-17.4	Pass	Average
2735.40	H	0	33.6	28.9	10.2	30.8	41.9	54.0	-12.1	Pass	Average
3647.20	H	0	32.3	31.5	10.6	31.7	42.7	54.0	-11.3	Pass	Average
4559.00	H	0	32.3	32.3	11.1	30.7	45.0	54.0	-9.0	Pass	Average
5470.80	H	0	29.9	34.3	12.3	30.3	46.2	54.0	-7.8	Pass	Average
6382.60	H	0	29.0	34.5	12.9	30.0	46.4	54.0	-7.6	Pass	Average
7294.40	H	0	28.8	35.9	13.3	30.8	47.2	54.0	-6.8	Pass	Average
8206.20	H	0	28.0	36.9	14.0	31.7	47.2	54.0	-6.8	Pass	Average
9118.00	H	0	29.4	37.6	15.0	33.8	48.2	54.0	-5.8	Pass	Average
911.80	V	0	53.3	23.5	6.1	0.0	82.9	94.0	-11.1	Pass	Average
1823.60	V	0	34.0	26.5	7.6	31.5	36.6	54.0	-17.4	Pass	Average
2735.40	V	0	33.6	28.9	10.2	30.8	41.9	54.0	-12.1	Pass	Average
3647.20	V	0	32.3	31.5	10.6	31.7	42.7	54.0	-11.3	Pass	Average
4559.00	V	0	32.3	32.3	11.1	30.7	45.0	54.0	-9.0	Pass	Average
5470.80	V	0	29.9	34.3	12.3	30.3	46.2	54.0	-7.8	Pass	Average
6382.60	V	0	29.0	34.5	12.9	30.0	46.4	54.0	-7.6	Pass	Average
7294.40	V	0	28.8	35.9	13.3	30.8	47.2	54.0	-6.8	Pass	Average
8206.20	V	0	28.0	36.9	14.0	31.7	47.2	54.0	-6.8	Pass	Average
9118.00	V	0	29.4	37.6	15.0	33.8	48.2	54.0	-5.8	Pass	Average

Test Data - Radiated Emissions (Peak)

Upper Channel

Analyzer Settings: <1000 MHz RBW = 100 kHz VBW = 300 kHz Peak Detector
>1000 MHz RBW = 1 MHz VBW = 3 MHz Peak Detector

Meas. Freq. (MHz)	Ant. Pol. (H/V)	Atten. (dB)	Meter Reading (dBuV)	Antenna Factor (dB)	Path Loss (dB)	RF Gain (dB)	Corrected Reading (dBuV/m)	Spec. limit (dBuV/m)	CR/SL Diff. (dB)	Pass Fail Unc.	Comment
											Upper Channel
919.8	H	0	64	23.5	6.1	0.0	93.6	94.0	-0.4	Pass	Peak
1839.6	H	0	39	26.5	7.6	31.5	41.6	74.0	-32.4	Pass	Peak
2759.4	H	0	37.8	28.9	10.2	30.8	46.1	74.0	-27.9	Pass	Peak
3679.2	H	0	35	31.5	10.6	31.7	45.4	74.0	-28.6	Pass	Peak
4599	H	0	35.3	32.3	11.1	30.7	48.0	74.0	-26.0	Pass	Peak
5518.8	H	0	35	34.3	12.3	30.3	51.3	74.0	-22.7	Pass	Peak
6438.6	H	0	34	34.5	12.9	30.0	51.4	74.0	-22.6	Pass	Peak
7358.4	H	0	33	35.9	13.3	30.8	51.4	74.0	-22.6	Pass	Peak
8278.2	H	0	32	36.9	14.0	31.7	51.2	74.0	-22.8	Pass	Peak
9198	H	0	32	37.6	15.0	33.8	50.8	74.0	-23.2	Pass	Peak
919.8	V	0	58.4	23.5	6.1	0.0	88.0	94.0	-6.0	Pass	Peak
1839.6	V	0	39	26.5	7.6	31.5	41.6	74.0	-32.4	Pass	Peak
2759.4	V	0	37.8	28.9	10.2	30.8	46.1	74.0	-27.9	Pass	Peak
3679.2	V	0	35	31.5	10.6	31.7	45.4	74.0	-28.6	Pass	Peak
4599	V	0	35.3	32.3	11.1	30.7	48.0	74.0	-26.0	Pass	Peak
5518.8	V	0	35	34.3	12.3	30.3	51.3	74.0	-22.7	Pass	Peak
6438.6	V	0	34	34.5	12.9	30.0	51.4	74.0	-22.6	Pass	Peak
7358.4	V	0	33	35.9	13.3	30.8	51.4	74.0	-22.6	Pass	Peak
8278.2	V	0	32	36.9	14.0	31.7	51.2	74.0	-22.8	Pass	Peak
9198	V	0	32	37.6	15.0	33.8	50.8	74.0	-23.2	Pass	Peak

Test Data - Radiated Emissions (Average)

Upper Channel

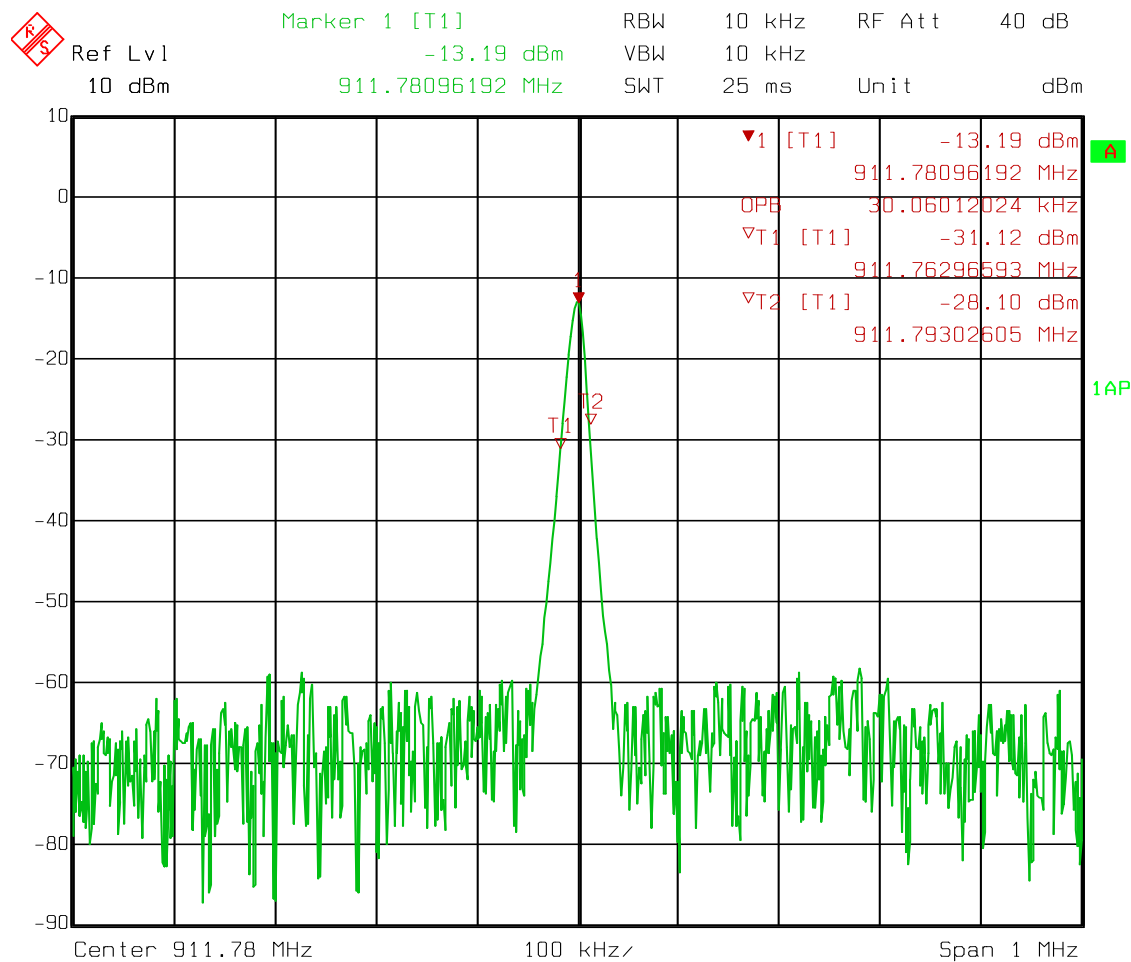
Analyzer Settings: <1000 MHz RBW = 100 kHz VBW = 100 kHz Peak Detector

>1000 MHz RBW = 1 MHz VBW = 10 MHz RMS Detector

Meas. Freq. (MHz)	Ant. Pol. (H/V)	Det. Atten. (dB)	Meter Reading (dBuV)	Antenna Factor (dB)	Path Loss (dB)	RF Gain (dB)	Corrected Reading (dBuV/m)	Spec. limit (dBuV/m)	CR/SL Diff. (dB)	Pass Fail Unc.	Comment
											Upper Channel
919.8	H	0	63.6	23.5	6.1	0.0	93.2	94.0	-0.8	Pass	Average
1839.6	H	0	26.0	26.5	7.6	31.5	28.6	54.0	-25.4	Pass	Average
2759.4	H	0	25.6	28.9	10.2	30.8	33.9	54.0	-20.1	Pass	Average
3679.2	H	0	23.6	31.5	10.6	31.7	34.0	54.0	-20.0	Pass	Average
4599	H	0	21.3	32.3	11.1	30.7	34.0	54.0	-20.0	Pass	Average
5518.8	H	0	20.8	34.3	12.3	30.3	37.1	54.0	-16.9	Pass	Average
6438.6	H	0	19.3	34.5	12.9	30.0	36.7	54.0	-17.3	Pass	Average
7358.4	H	0	19.8	35.9	13.3	30.8	38.2	54.0	-15.8	Pass	Average
8278.2	H	0	19.3	36.9	14.0	31.7	38.5	54.0	-15.5	Pass	Average
9198	H	0	19.0	37.6	15.0	33.8	37.8	54.0	-16.2	Pass	Average
919.8	V	0	58.40	23.5	6.1	0.0	88.0	94.0	-6.0	Pass	Average
1839.6	V	0	26.00	26.5	7.6	31.5	28.6	54.0	-25.4	Pass	Average
2759.4	V	0	25.60	28.9	10.2	30.8	33.9	54.0	-20.1	Pass	Average
3679.2	V	0	23.60	31.5	10.6	31.7	34.0	54.0	-20.0	Pass	Average
4599	V	0	21.30	32.3	11.1	30.7	34.0	54.0	-20.0	Pass	Average
5518.8	V	0	20.80	34.3	12.3	30.3	37.1	54.0	-16.9	Pass	Average
6438.6	V	0	19.30	34.5	12.9	30.0	36.7	54.0	-17.3	Pass	Average
7358.4	V	0	19.80	35.9	13.3	30.8	38.2	54.0	-15.8	Pass	Average
8278.2	V	0	19.30	36.9	14.0	31.7	38.5	54.0	-15.5	Pass	Average
9198	V	0	19.00	37.6	15.0	33.8	37.8	54.0	-16.2	Pass	Average

Test Data – 99% Bandwidth

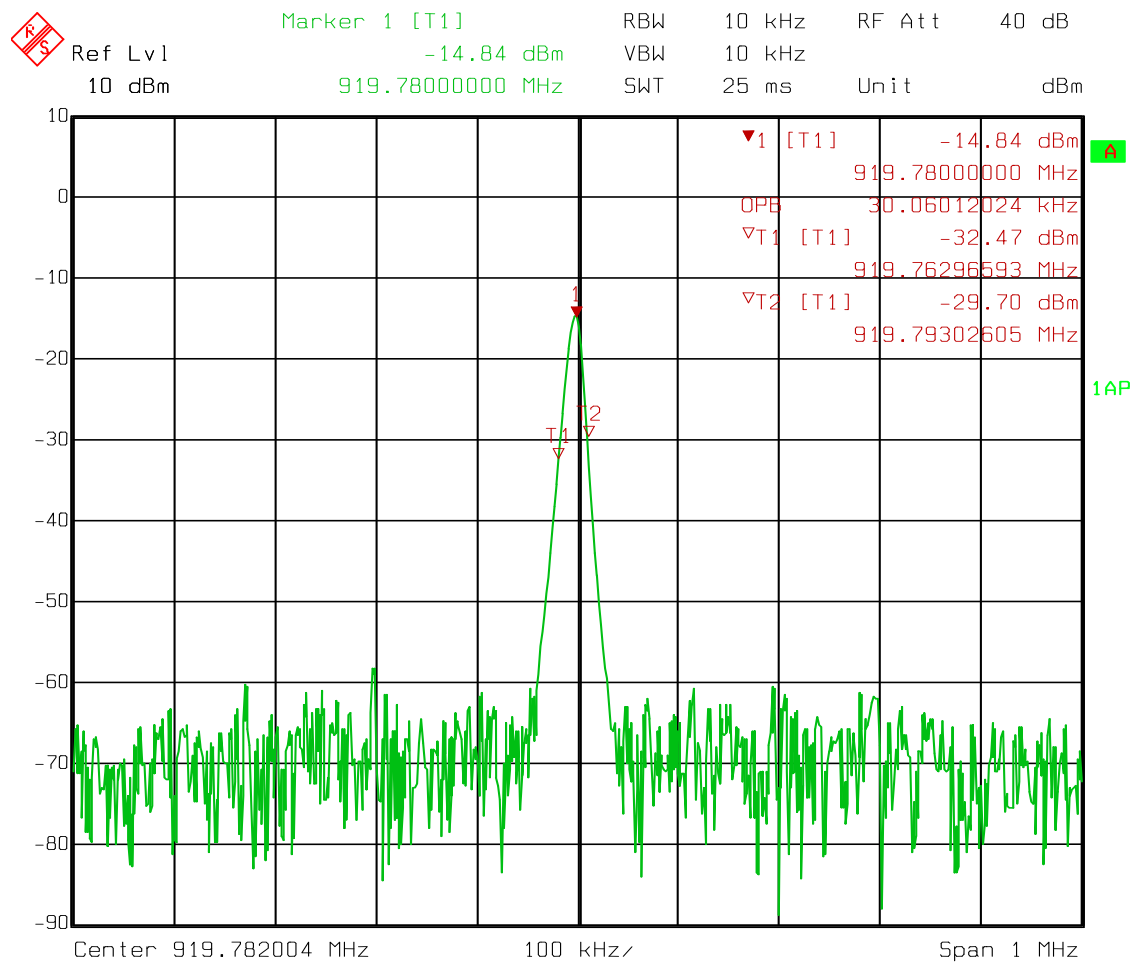
Lower Channel



Date: 17.DEC.2013 14:09:39

Test Data – 99% Bandwidth

Upper Channel



Date: 17.DEC.2013 14:11:12

Section 5. Receiver Spurious Emissions

NAME OF TEST: Receiver Spurious Emissions	PARA. NO.: RSS-Gen 6.1
TESTED BY: David Light	DATE: 27 December 2013

Minimum Standard: Para no. RSS-Gen 6.1

Radiated spurious emission measurements shall be performed with the receiver antenna connected to the receiver antenna terminals. Spurious emissions from receivers shall not exceed the radiated limits shown in the table below.

Frequency (MHz)	Field Strength (microvolts/m at 3 meters)	Field Strength (dB μ V/m at 3 meters)
30-88	100	40.0
88-216	150	43.5
216-960	200	46.0
Above 960	500	54.0

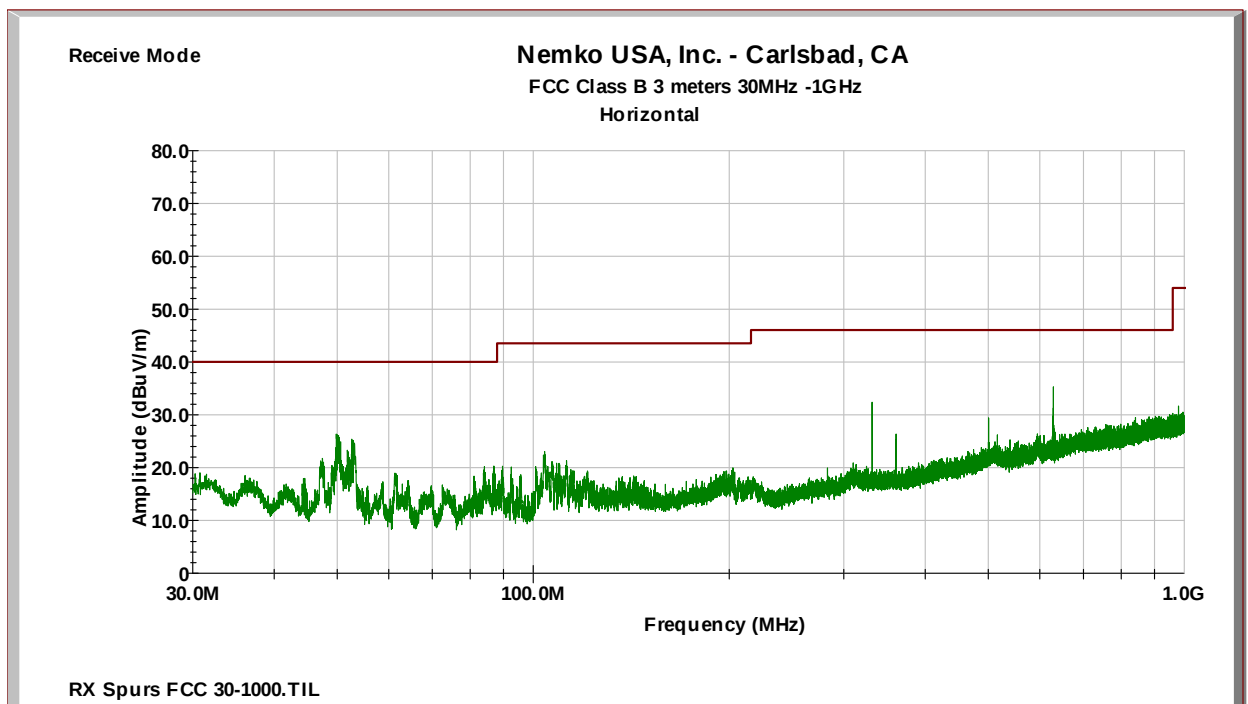
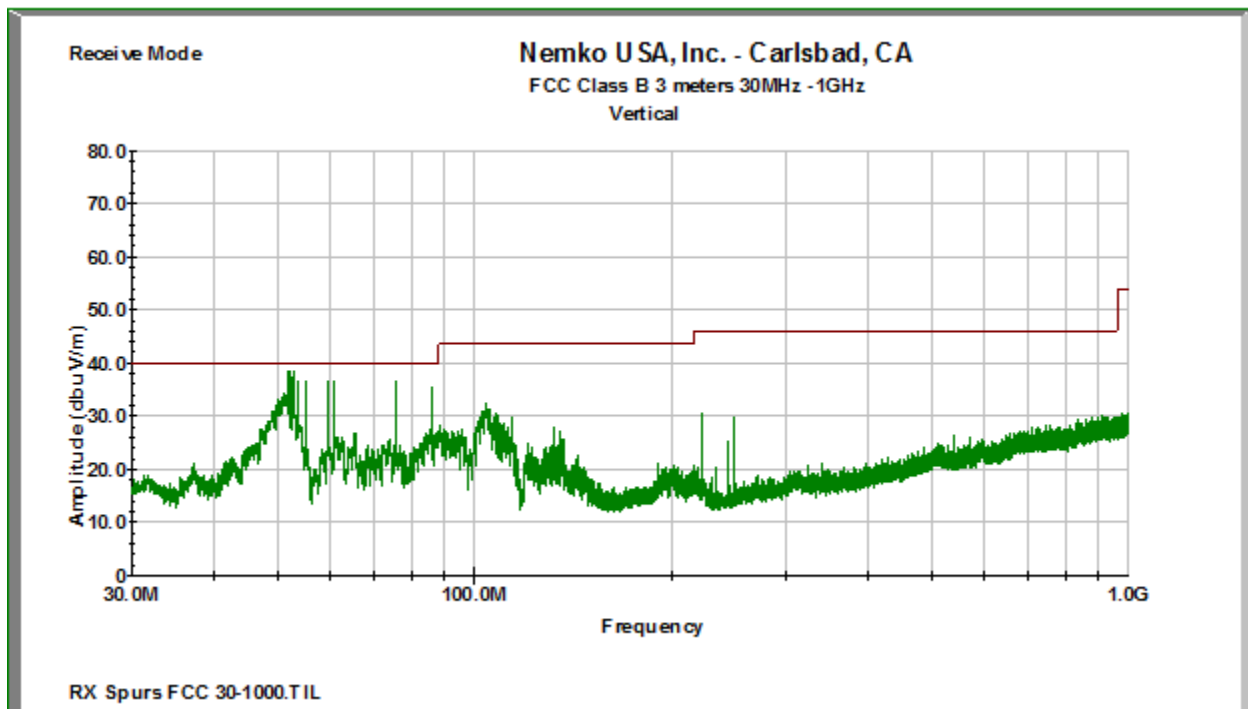
Test Results: Complies

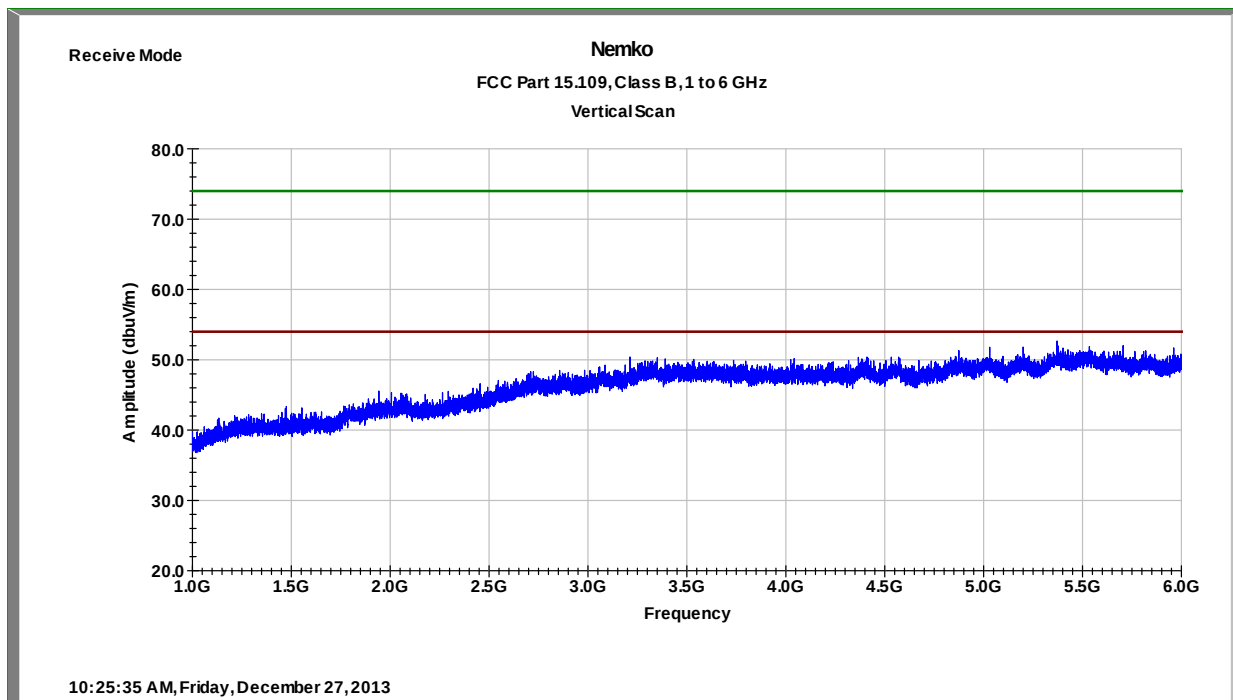
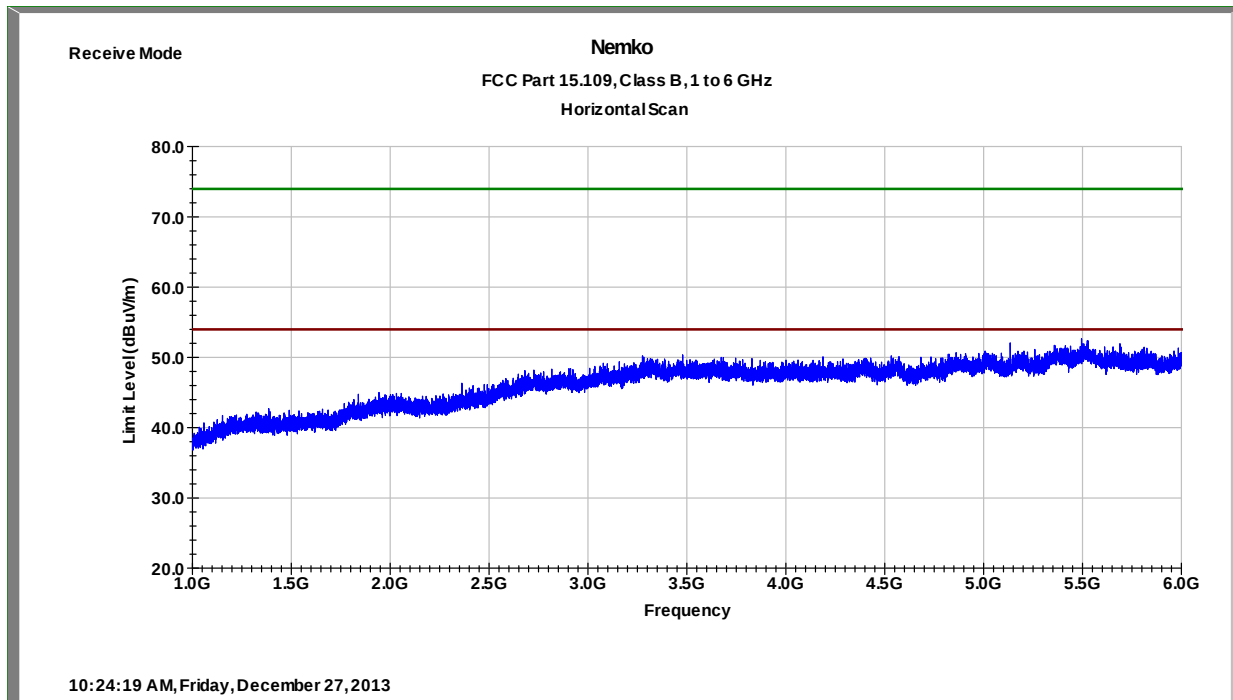
Measurement Data: See attached graph(s)

Measurements conditions: Temperature 22°C

Relative Humidity 35%

Test Data – Receiver Spurious Emissions



Test Data – Receiver Spurious Emissions

Section 6. Test Equipment List

Asset Tag	Description	Manufacturer	Model	Serial #	Last Cal	Next Cal
752	Antenna, DRWG	EMCO	3115	4943	03-Jan-2013	03-Jan-2014
827	Preamplifier	Com-Power	PA-103	161032	14-Jul-2013	14-Jul-2014
E1030	10 Meter Low Loss Cable	A.H. Systems, Inc.	SAC-18G-10	1096	23-Dec-2012	23-Dec-2013
1763	Antenna, Bilog	Schaffner	CBL 6111D	22926	07-Mar-2013	07-Mar-2014
1016	Preamplifier	Hewlett Packard	8449A	2749A00159	20-Aug-2013	20-Aug-2014
1036	Spectrum Analyzer	Rohde & Schwarz	FSEK30	830844/006	15-Jul-2013	15-Jul-2015
E1019	Two Line V- Network	Rohde & Schwarz	ENV216	101045	13-Apr-2013	13-Apr-2014
E1026	EMI Test Receiver 9kHz to 7GHz	Rohde & Schwarz	ESCI 7	100800	15-Jul-2013	15-Jul-2014

Nemko USA, Inc.

CFR 47, PART 15, SUBPART C, Paragraph 15.249
and Industry Canada RSS-210, Issue 8
Operation within the bands 902-928 MHz,
2400-2483.5 MHz, 5725-5875 MHz,
and 24.0-24.25 GHz.

FCC ID: EF400117

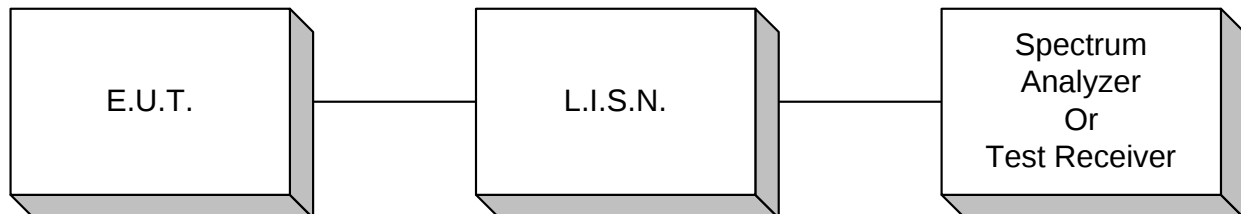
IC: 1078A-00117

Report number: 2014 01247316 FCC

ANNEX A

TEST DIAGRAMS

Conducted Emissions



Test Site For Radiated Emissions

