



**FCC 47 CFR PART 15 SUBPART C
INDUSTRY CANADA RSS-210 ISSUE 8**

CERTIFICATION TEST REPORT

FOR

Wireless In-Wall Dimmer Switch

MODEL NUMBER: GT-RF2

**FCC ID: JPZ0110
IC: 2851A-JPZ0110**

REPORT NUMBER: 10657820

ISSUE DATE: January 28, 2015

Prepared for
**LUTRON ELECTRONICS CO INC.
7200 SUTER RD
COOPERSBURG PA, 18036, USA**

Prepared by
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NVLAP Lab code: 100414-0

Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
--	20150128	Initial Issue	BM

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: LUTRON ELECTRONICS CO INC.
7200 SUTER RD
COOPERSBURG, PA, 18036, USA

EUT DESCRIPTION: Wireless In-Wall Dimmer Switch

MODEL: GT-RF2

SERIAL NUMBER: Non-Serialized

DATE TESTED: January 26, 2015 – January 27, 2015

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C	Pass
INDUSTRY CANADA RSS-210 Issue 8, Annex 1	Pass
INDUSTRY CANADA RSS-GEN Issue 4	Pass

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL LLC based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL LLC By: Michael Ferrer

Tested By: Bart Mucha



UL LLC

UL LLC

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2009, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 4, and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 333 Pfingsten Road, Northbrook, IL 60062 USA.

UL NBK is accredited by NVLAP, Laboratory Code 100414-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/Standards/scopes/1004140.htm>

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Sample Calculations

Radiated Field Strength and Conducted Emissions data contained within this report is calculated on the following basis:

Field Strength (dBuV/m) = Meter Reading (dBuV) + AF (dB/m) - Gain (dB) + Cable Loss (dB)

Conducted Voltage (dBuV) = Meter Reading (dBuV) + Cable Loss (dB) + LISN IL (dB)

Conducted Current (dBuA) = Meter Reading (dBuV) + Cable Loss (dB) - Transducer Factor (dBohms)

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test	Range	Equipment	Uncertainty k=2
Radiated Emissions	30-200MHz	Bicon 3m Horz	3.30dB
Radiated Emissions	30-130MHz	Bicon 3m Vert	4.84dB
Radiated Emissions	130-200MHz	Bicon 3m Vert	4.94dB
Radiated Emissions	200-1000MHz	LogP 3m Horz	3.46dB
Radiated Emissions	200-1000MHz	LogP 3m Vert	4.98dB
Radiated Emissions	1-6GHz	Horn	5.02dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a wireless dimmer switch intended for lighting applications. It contains a periodic transceiver that operates on single pre-set channel between 431MHz and 437MHz.

5.2. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an integral antenna that is not user accessible or configurable.

5.3. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was RadioRa2 (image ID = "0795744").

The software used during testing was e81cd2d.

5.4. WORST-CASE CONFIGURATION AND MODE

Testing was conducted for Radiated and Conducted emissions on the lowest and highest channels.

5.5. MODIFICATIONS

No modifications were made during testing.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

None

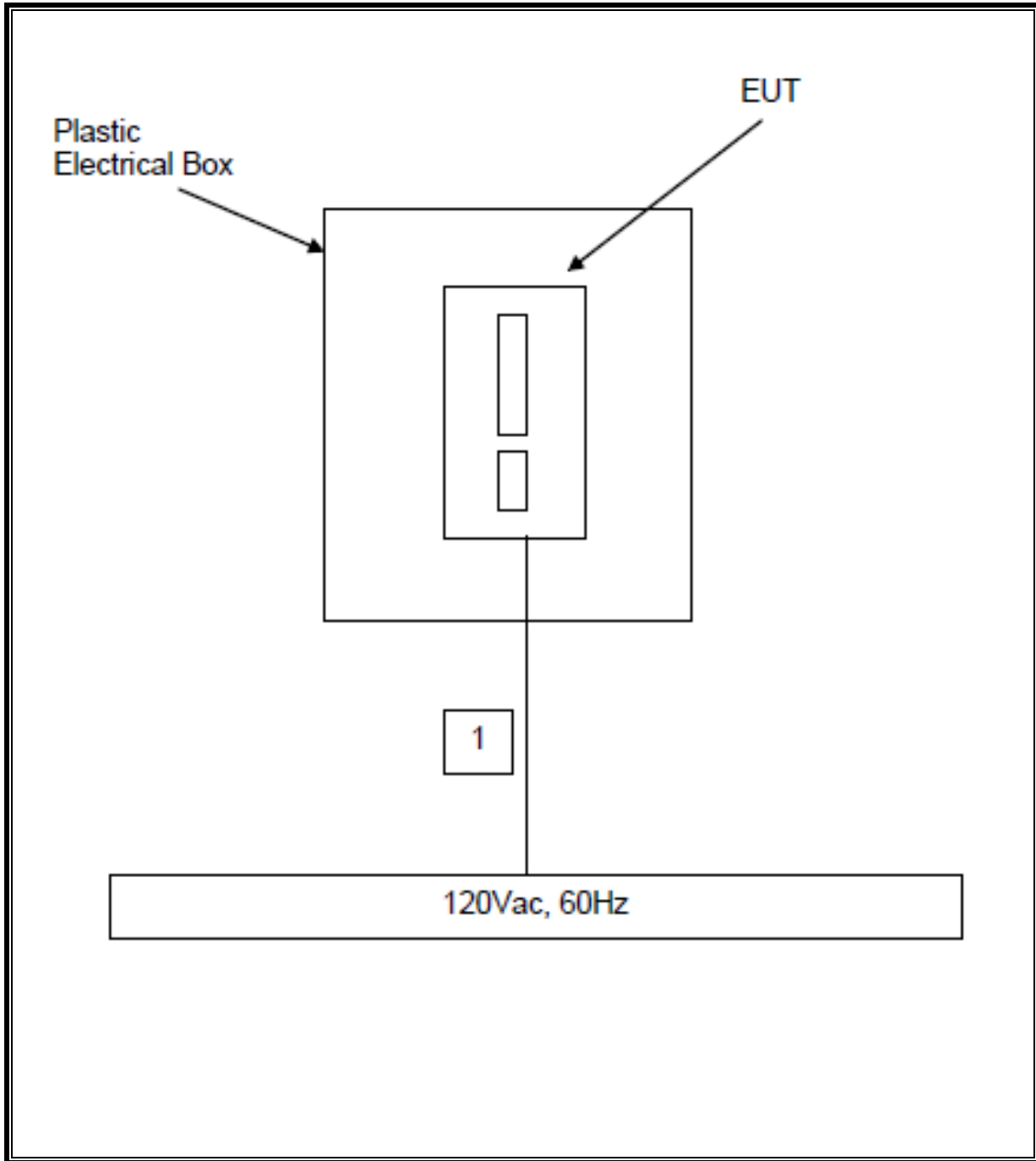
I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC Mains	1	Hardwire	Unshielded	> 3m	None
2	AC Output	1	Hardwire	Unshielded	> 3m	Left Unterminated

TEST SETUP

The EUT was tested in a plastic electrical box as a stand-alone device.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Conducted Emissions

Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESR	EMC4377	April 1, 2014	April 1, 2015
Transient Limiter	Electro-Metrics	EM7600-2	EMC4224	N/A	N/A
HighPass Filter	Solar Electronics	2803-150	885551	N/A	N/A
Attenuator	HP	8494B	2831A00838	N/A	N/A
LISN - L1	Solar	8602-50-TS-50-N	EMC4052	Jan 09, 2015	Jan 10, 2016
LISN - L2	Solar	8602-50-TS-50-N	EMC4064	Jan 09, 2015	Jan 10, 2016

Radiated Emissions including Duty Cycle Measurements & Bandwidth Measurements

Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC4328	20141230	20151231
Bicon Antenna	Chase	VBA6106A	EMC4078	20140401	20150401
Log-P Antenna	Chase	UPA6109	EMC4313	20141119	20151130
EMI Test Receiver	Rohde & Schwarz	ESU	EMC4323	20141227	20151231
Antenna Array	UL	BOMS	EMC4276	20141201	20151231
Spectrum Analyzer	Agilent	N9030A (PXA)	EMC4360	20141227	20151231

7. ANTENNA PORT TEST RESULTS

7.1. 20 dB AND 99% BW

LIMITS

FCC §15.231 (c)

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

IC RSS-210, A1.1.3

For the purpose of Section A1.1, the 99% Bandwidth shall be no wider than 0.25% of the center frequency for devices operating between 70-900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency.

TEST PROCEDURE

ANSI C63.10

The transmitter output is connected to the spectrum analyzer.

20dB Bandwidth: The RBW is set to 10 KHz. The VBW is set to 30 KHz. The sweep time is coupled. Bandwidth is determined at the points 20 dB down from the modulated carrier.

99% Bandwidth: The RBW is set to 1% to 3% of the 99 % bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

RESULTS

No non-compliance noted:

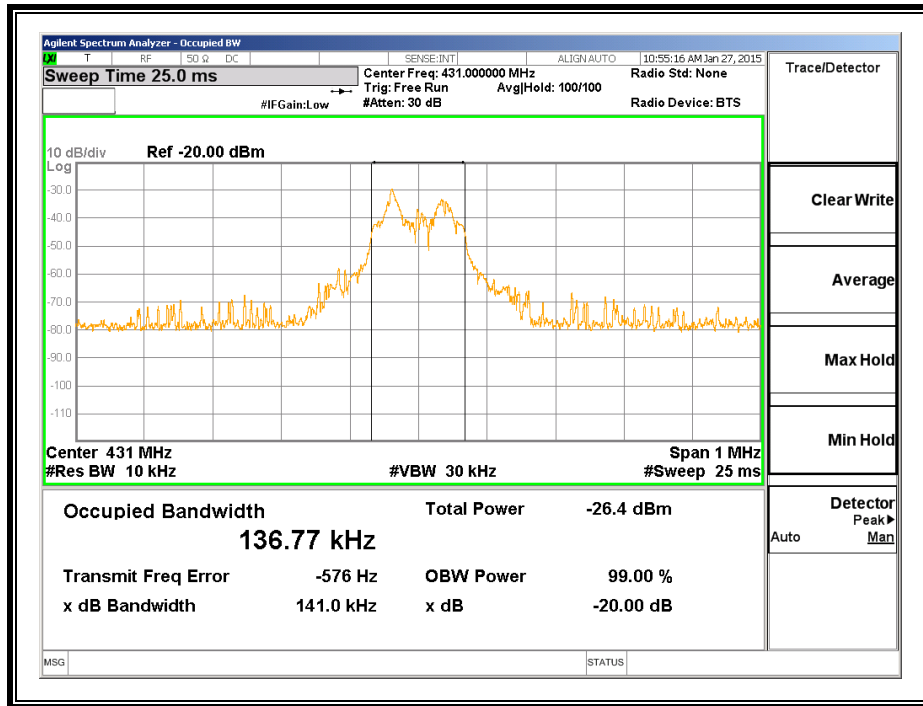
20dB Bandwidth

Frequency (MHz)	20dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)
431	141.0	1077.5	-936.5
437	147.4	1092.5	-945.1

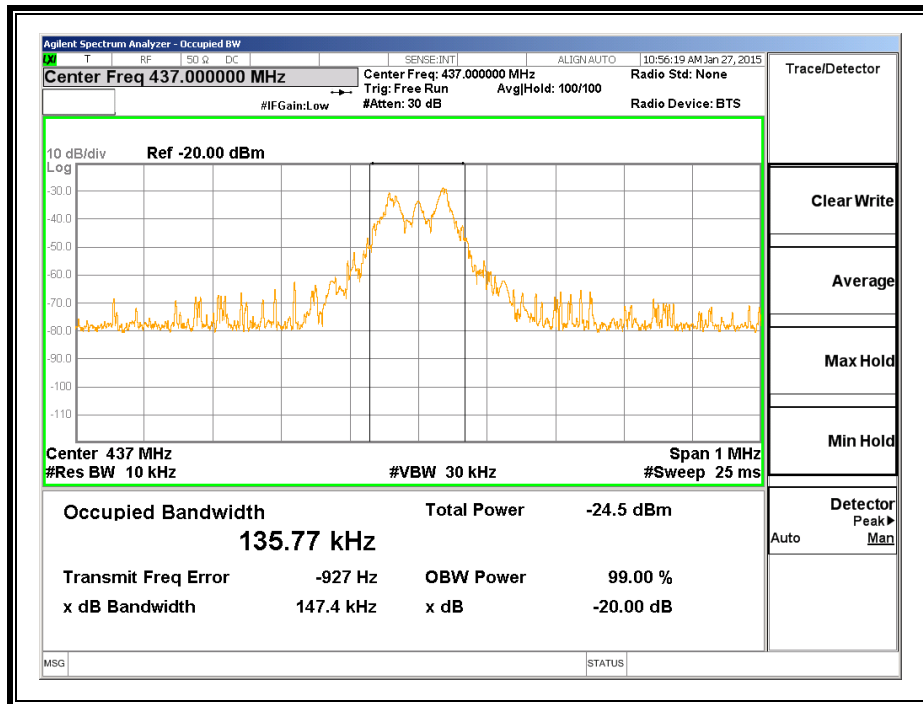
99% Bandwidth

Frequency (MHz)	99% Bandwidth (kHz)	Limit (kHz)	Margin (kHz)
431	132.49	1077.5	-945.01
437	131.57	1092.5	-960.93

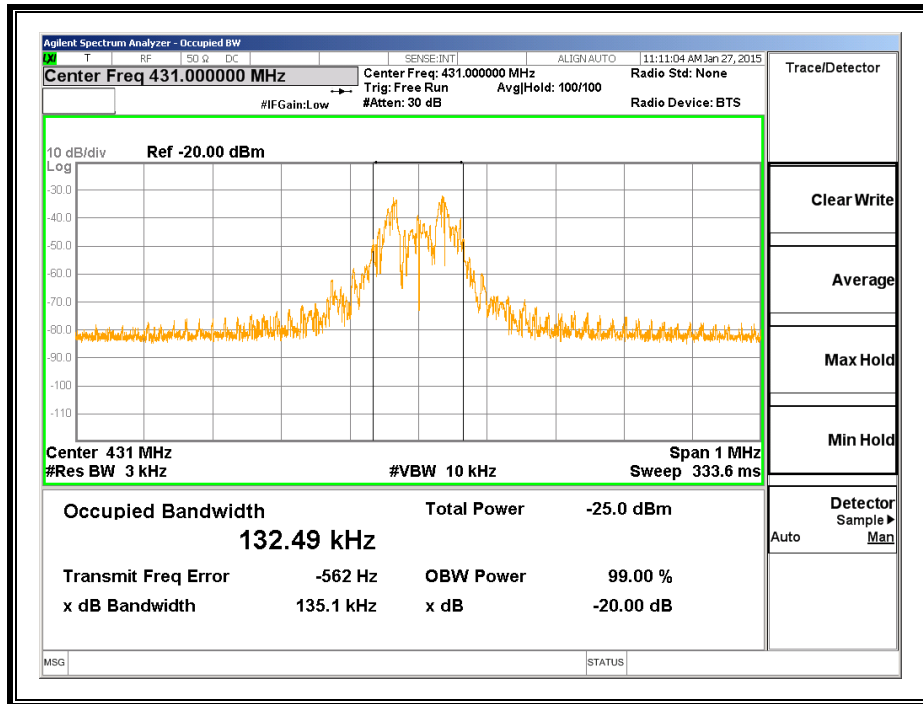
20dB BANDWIDTH Low Channel



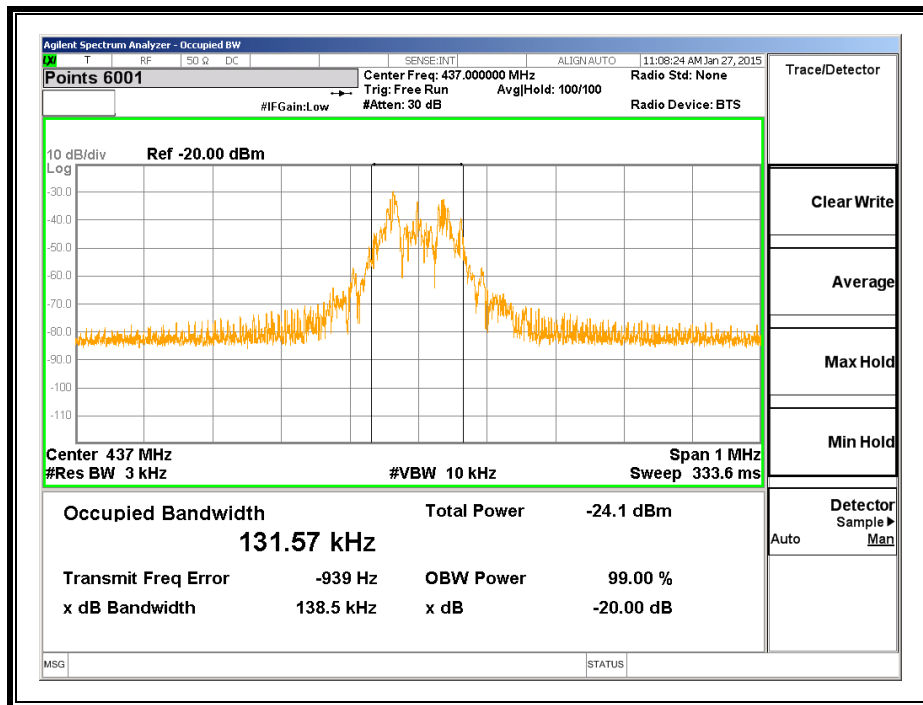
20dB BANDWIDTH High Channel



99% BANDWIDTH Low Channel



99% BANDWIDTH High Channel



7.2. DUTY CYCLE

LIMITS

FCC §15.35 (c)

The measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subject to notification or verification.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer or radiated field strength. The RBW is set to 1000 kHz and the VBW is set to 1000 kHz. The sweep time is coupled and the span is set to 0 Hz. The number of pulses is measured and calculated in a 100 ms scan.

CALCULATION

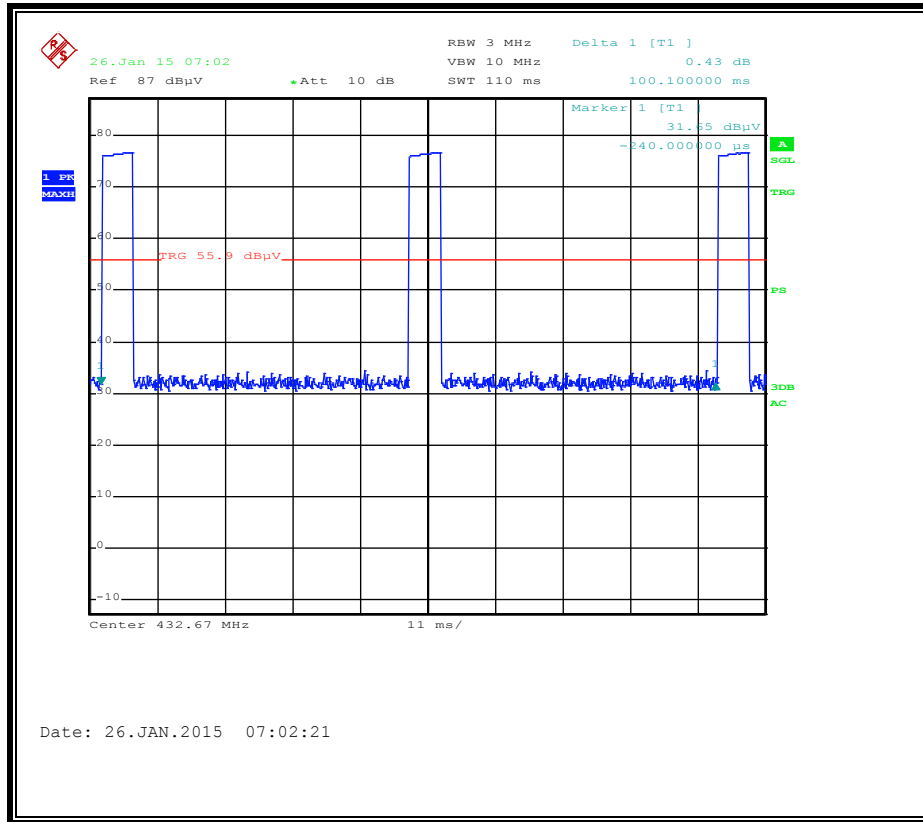
Average Reading = Peak Reading (dBuV/m) + 20log (Duty Cycle), Where Duty Cycle is (# of long pulses * long pulse width) + (# of short pulses * short pulse width) / 100 or T

RESULTS

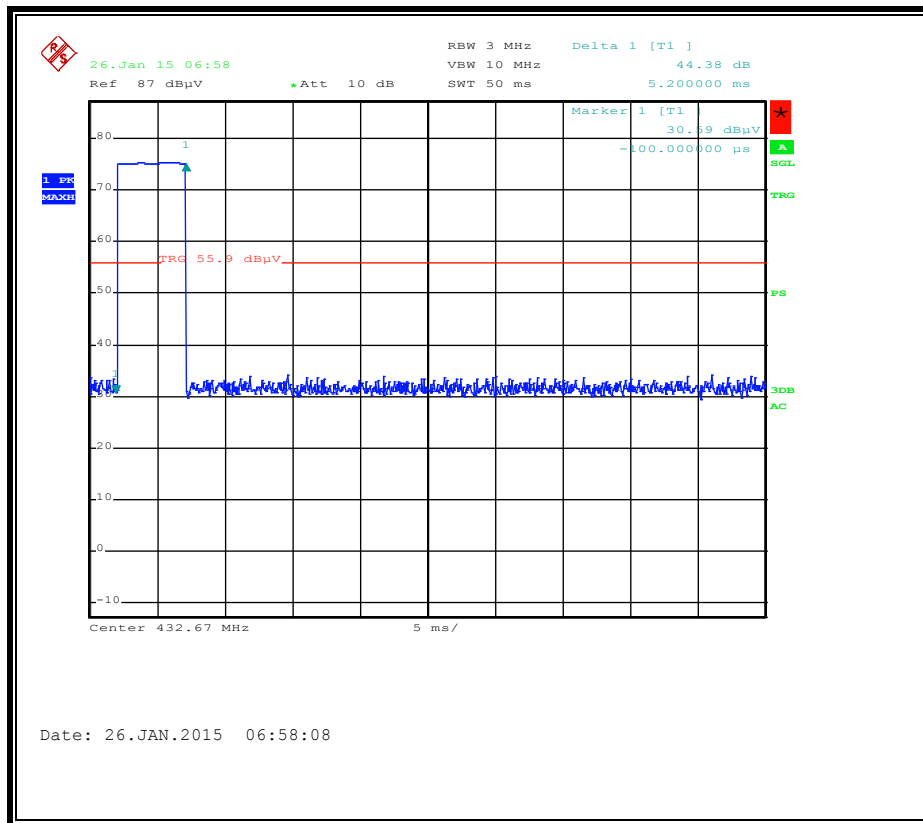
No non-compliance noted:

One Period (ms)	Pulse Width (ms)	# of Pulses	Duty Cycle	20*Log Duty Cycle (dB)
100.1	5.2	2	0.104	-19.659

Period



PULSE WIDTH



7.3. TRANSMISSION TIME

LIMITS

FCC §15.231 (a) (2)

IC RSS-210 A1.1.1 (b)

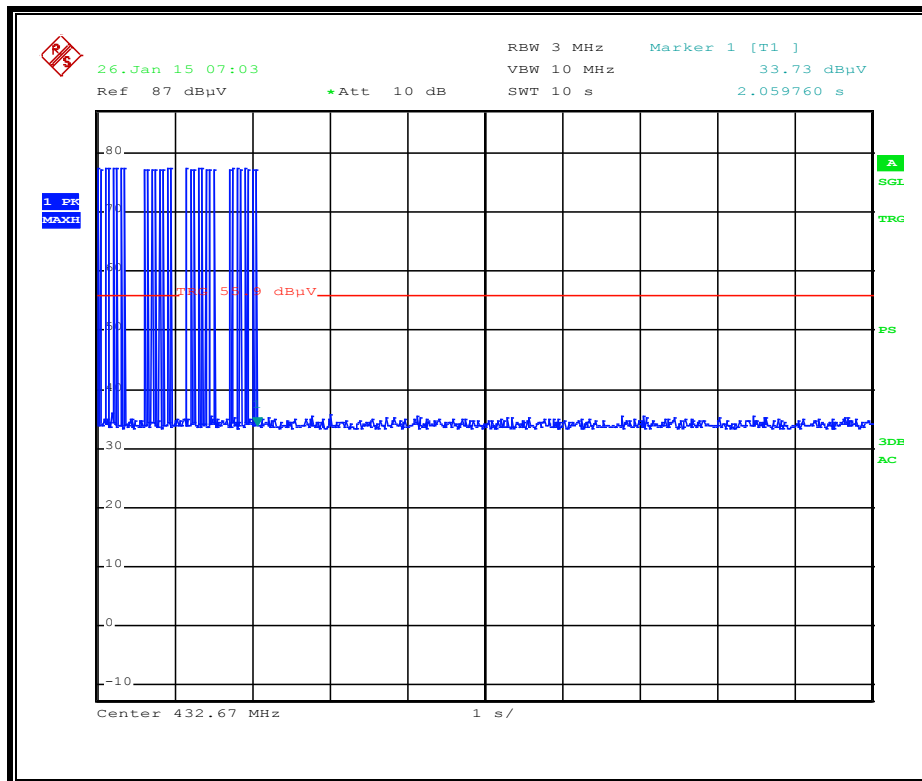
A transmitter activated automatically shall cease transmission within 5 seconds after activation.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer or radiated field strength. The RBW is set to 3000 kHz and the VBW is set to 10000 kHz. The sweep time is set to 10 seconds and the span is set to 0 Hz.

RESULTS

No non-compliance noted:



The device stops transmitting after 2.06s.

8. RADIATED EMISSION TEST RESULTS

8.1. TX RADIATED SPURIOUS EMISSION

LIMITS

FCC §15.231 (b)

IC RSS-210 A1.1.2

In addition to the provisions of § 15.205, the field strength of emissions from Intentional radiators operated under this section shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental Frequency (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)
40.66 - 40.70	2,250	225
70 - 130	1,250	125
130 - 174	1,250 to 3,750 ¹	125 to 375 ¹
174 - 260	3,750	375
260 - 470	3,750 to 12,500 ¹	375 to 1,250 ¹
Above 470	12,500	1,250

¹ Linear interpolation

§15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(²)
13.36 - 13.41	322 - 335.4		

1 Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
2 Above 38.6

§15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§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:

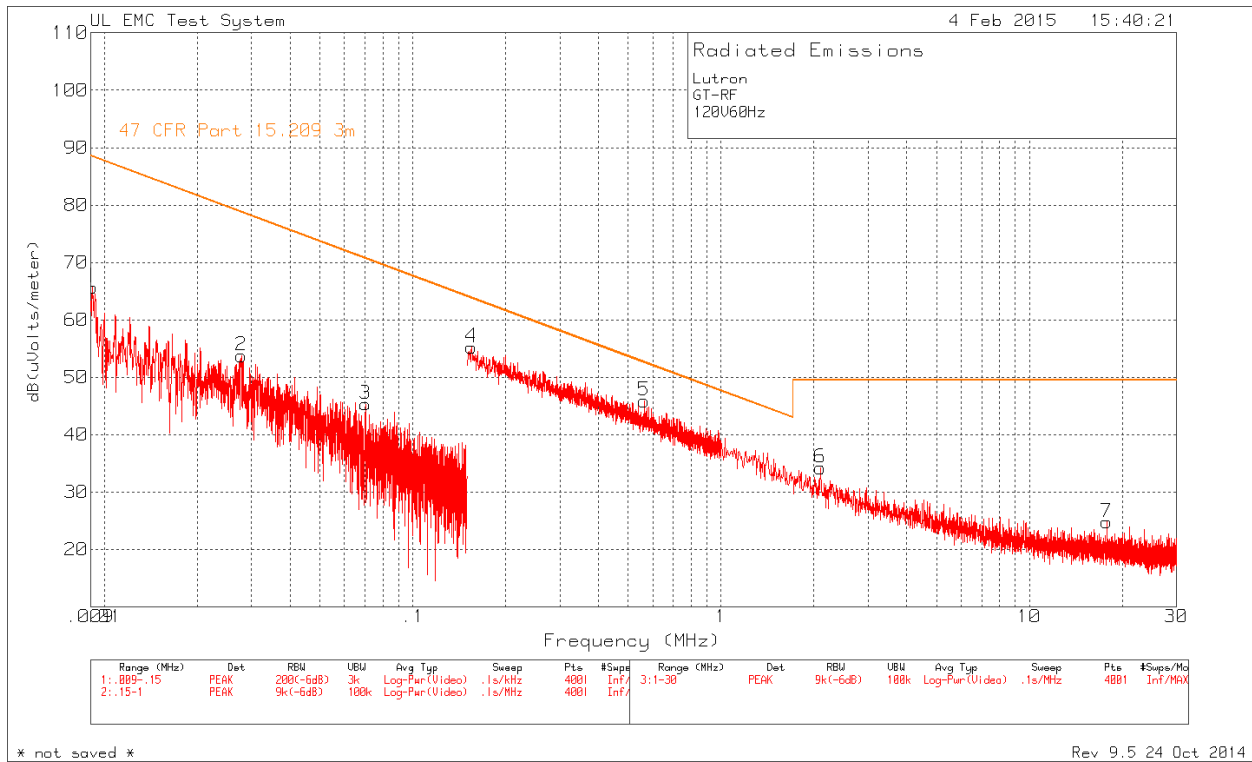
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

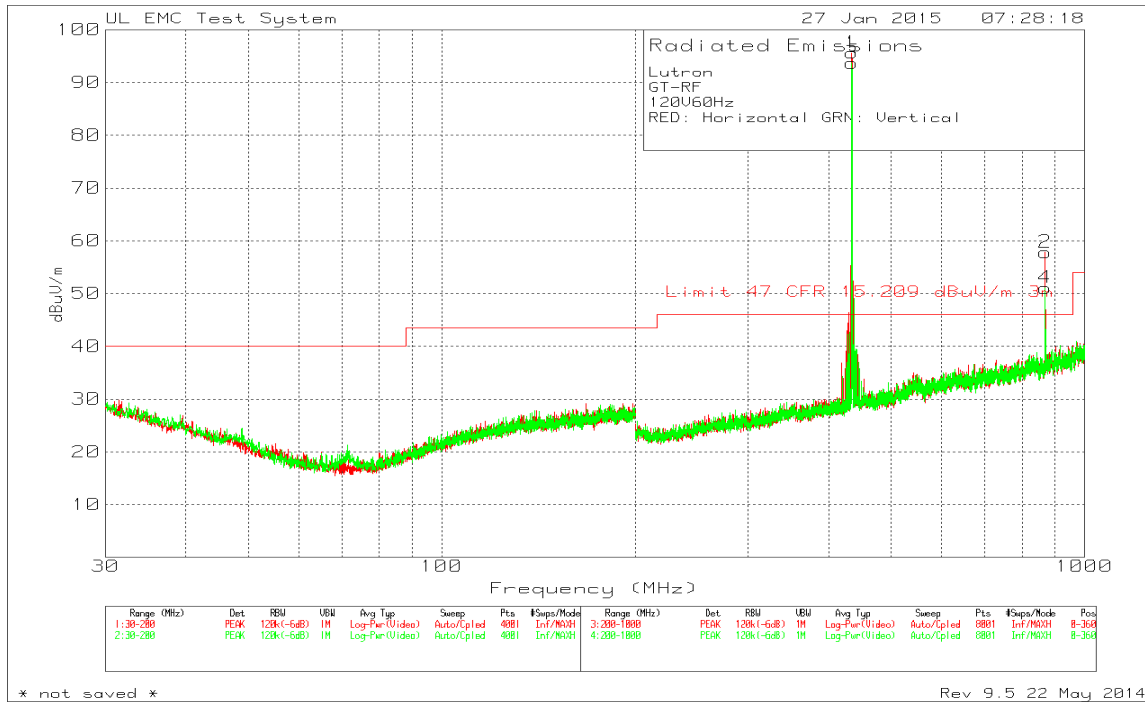
RESULTS

Emissions 9kHz – 30MHz



* There were no emissions recorded between 9kHz and 30MHz

FUNDAMENTAL, HARMONICS AND TX SPURIOUS EMISSION (30 – 1000 MHz)



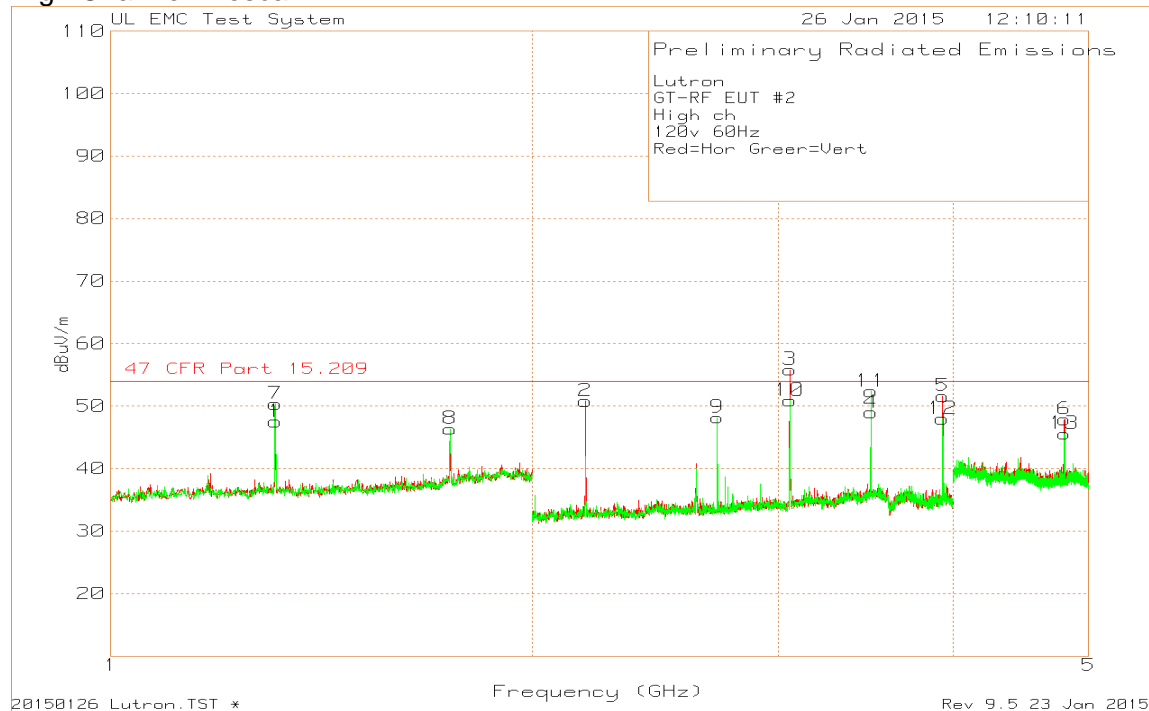
Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dBm	Path Factor dB	Peak Level dBuV/m	Peak Limit dBuV/m	Peak Margin dB	Duty Cycle Factor dB	Average level dBuV/m	Average Limit dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
431.0402	70.49	PK	17	8.5	95.99	100.72	-4.73	-19.65	76.34	80.72	-4.38	7	213	H
431.0353	68.98	PK	17	8.5	94.48	100.72	-6.24	-19.65	74.83	80.72	-5.89	139	102	V
436.9607	68.57	PK	17.2	8.5	94.27	100.93	-6.66	-19.65	74.62	80.93	-6.31	351	218	H
437.0371	71.05	PK	17.2	8.5	96.75	100.93	-4.18	-19.65	77.1	80.93	-3.83	138	117	V
861.9335	13.83	PK	23.3	10.2	47.33	66.02	-18.69	-19.65	27.68	46.02	-18.34	40	379	H
862.0764	18.09	PK	23.3	10.2	51.59	66.02	-14.43	-19.65	31.94	46.02	-14.08	328	141	V
874.032	21.66	PK	23	10.2	54.86	66.02	-11.16	-19.65	35.21	46.02	-10.81	303	104	H
873.9212	16.89	PK	23	10.2	50.09	66.02	-15.93	-19.65	30.44	46.02	-15.58	143	203	V
PK - Peak detector														

HARMONICS AND TX SPURIOUS EMISSIONS ABOVE 1GHZ

Low Channel Prescan



High Channel Prescan



Radiated Emissions above 1GHz Data

Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB	Path Factor dB	Peak Level dBuV/m	Peak Limit dBuV/m	Peak Margin dB	Duty Cycle Factor dB	Average Level dBuV/m	Limit 47 CFR Part 15.209 dBuV/m	Average Margin dB	Azimuth [Degs]	Height [cm]	Polarity
Low Channel														
1.293	82.38	Pk	25.2	-55.71	51.87	74	-22.13	-19.65	32.22	54	-21.78	0-360	100	H
2.155	80.7	Pk	21.6	-52.47	49.83	74	-24.17	-19.65	30.18	54	-23.82	0-360	150	H
3.017	84.83	Pk	22.5	-50.85	56.48	74	-17.52	-19.65	36.83	54	-17.17	0-360	150	H
3.879	79.07	Pk	23.9	-51.2	51.77	74	-22.23	-19.65	32.12	54	-21.88	0-360	99	H
4.741	74.33	Pk	27.7	-51.27	50.76	74	-23.24	-19.65	31.11	54	-22.89	0-360	100	H
1.015	80.67	Pk	24.1	-56.51	48.26	74	-25.74	-19.65	28.61	54	-25.39	0-360	150	V
1.293	83.4	Pk	25.2	-55.71	52.89	74	-21.11	-19.65	33.24	54	-20.76	0-360	150	V
3.017	80.15	Pk	22.5	-50.85	51.8	74	-22.2	-19.65	32.15	54	-21.85	0-360	100	V
3.448	78.06	Pk	23.5	-51.07	50.49	74	-23.51	-19.65	30.84	54	-23.16	0-360	150	V
3.879	76.69	Pk	23.9	-51.2	49.39	74	-24.61	-19.65	29.74	54	-24.26	0-360	150	V
High Channel														
1.311	77.85	Pk	25.2	-55.54	47.51	74	-26.49	-19.65	27.86	54	-26.14	0-360	150	H
2.185	81.42	Pk	21.7	-52.28	50.84	74	-23.16	-19.65	31.19	54	-22.81	0-360	150	H
3.059	83.89	Pk	22.6	-50.67	55.82	74	-18.18	-19.65	36.17	54	-17.83	0-360	150	H
3.497	75.6	Pk	23.5	-50.12	48.98	74	-25.02	-19.65	29.33	54	-24.67	0-360	100	H
3.934	78.63	Pk	24	-51.03	51.6	74	-22.4	-19.65	31.95	54	-22.05	0-360	100	H
4.808	70.75	Pk	27.7	-50.58	47.87	74	-26.13	-19.65	28.22	54	-25.78	0-360	150	H
1.311	80.69	Pk	25.2	-55.54	50.35	74	-23.65	-19.65	30.7	54	-23.3	0-360	150	V
1.748	73.84	Pk	26.5	-53.99	46.35	74	-27.65	-19.65	26.7	54	-27.3	0-360	150	V
2.715	77.43	Pk	22.1	-51.37	48.16	74	-25.84	-19.65	28.51	54	-25.49	0-360	100	V
3.059	78.95	Pk	22.6	-50.67	50.88	74	-23.12	-19.65	31.23	54	-22.77	0-360	100	V
3.497	78.97	Pk	23.5	-50.12	52.35	74	-21.65	-19.65	32.7	54	-21.3	0-360	100	V
3.933	75.01	Pk	24	-51.05	47.96	74	-26.04	-19.65	28.31	54	-25.69	0-360	150	V
4.808	68.45	Pk	27.7	-50.58	45.57	74	-28.43	-19.65	25.92	54	-28.08	0-360	150	V
Pk - Peak Detector														

8.2. RX & DIGITAL EMISSION

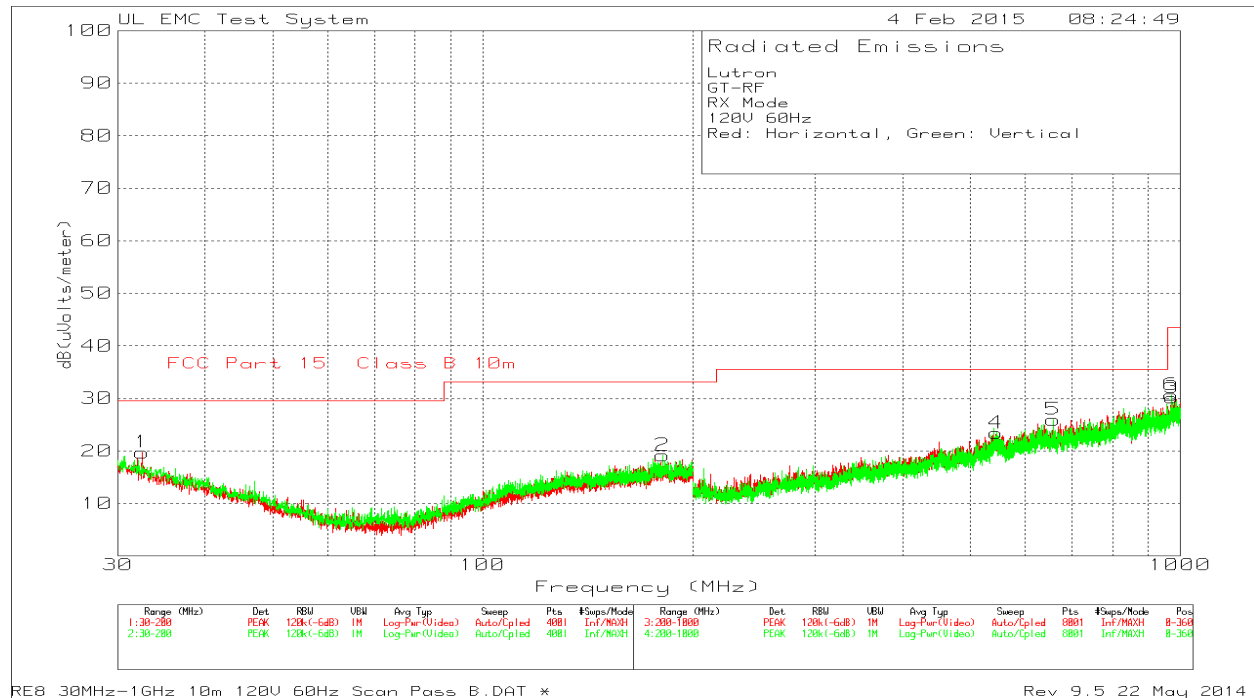
LIMITS

§15.109 Radiated emission limits.

(a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency of emission (MHz)	Field strength (microvolts/meter)
30-88	100
88-216	150
216-960	200
Above 960	500

* Digital radiated emissions measurements were conducted at a distance of 10m. The limits were extrapolated to the measurement distance.



* There were no emissions recorded from the EUT. There was also no emissions recorded above 1GHz.

9. AC MAINS LINE CONDUCTED EMISSIONS

LIMITS

§15.207 (a)
IC RSS-GEN, Section 7.2.2

Frequency of emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

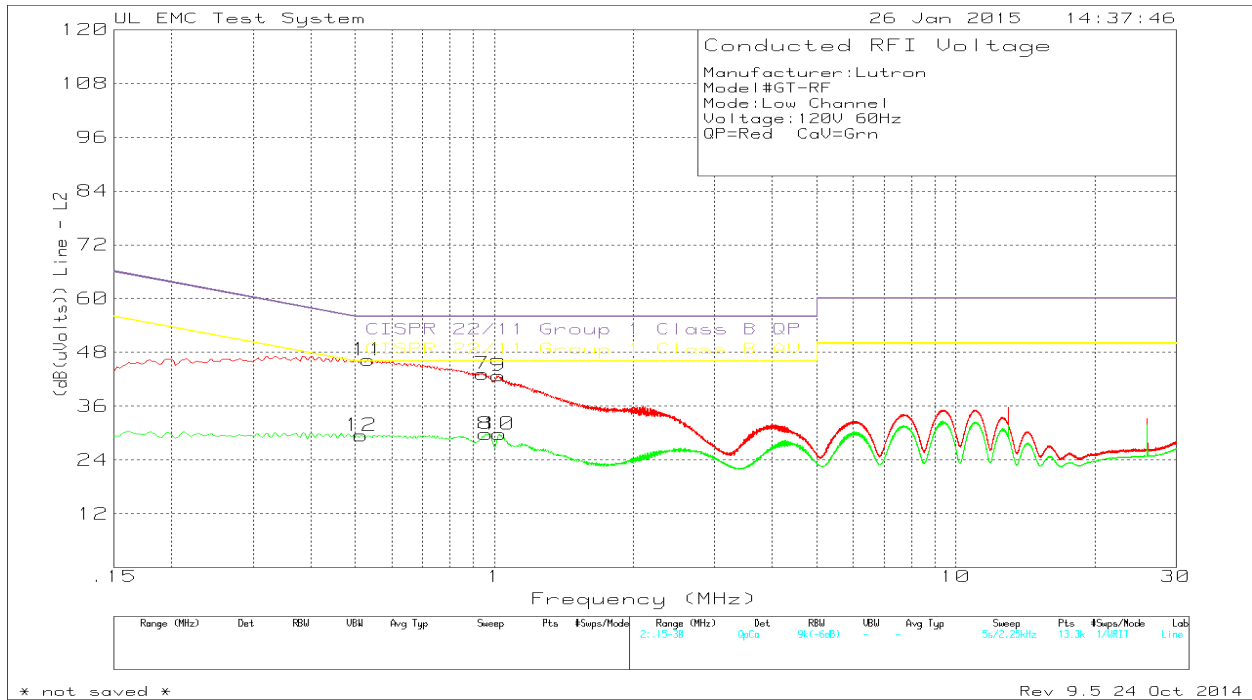
ANSI C63.10

RESULTS

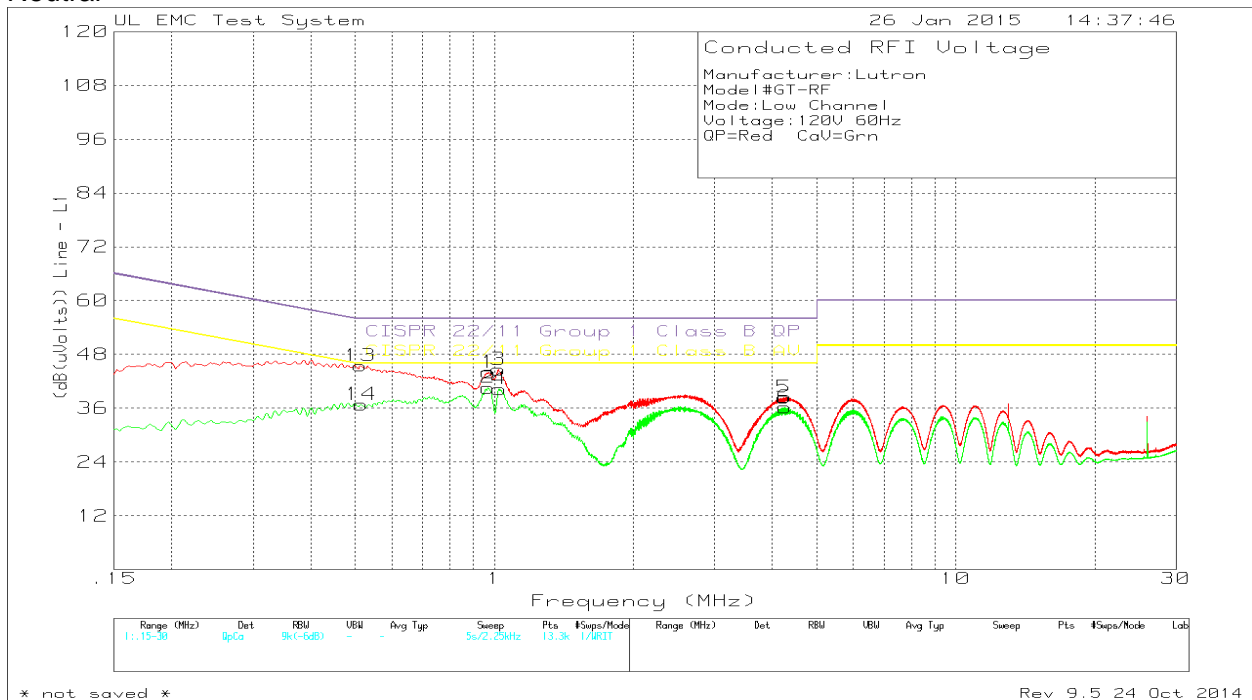
No non-compliance noted:

Conducted Emissions Scan

Line



Neutral

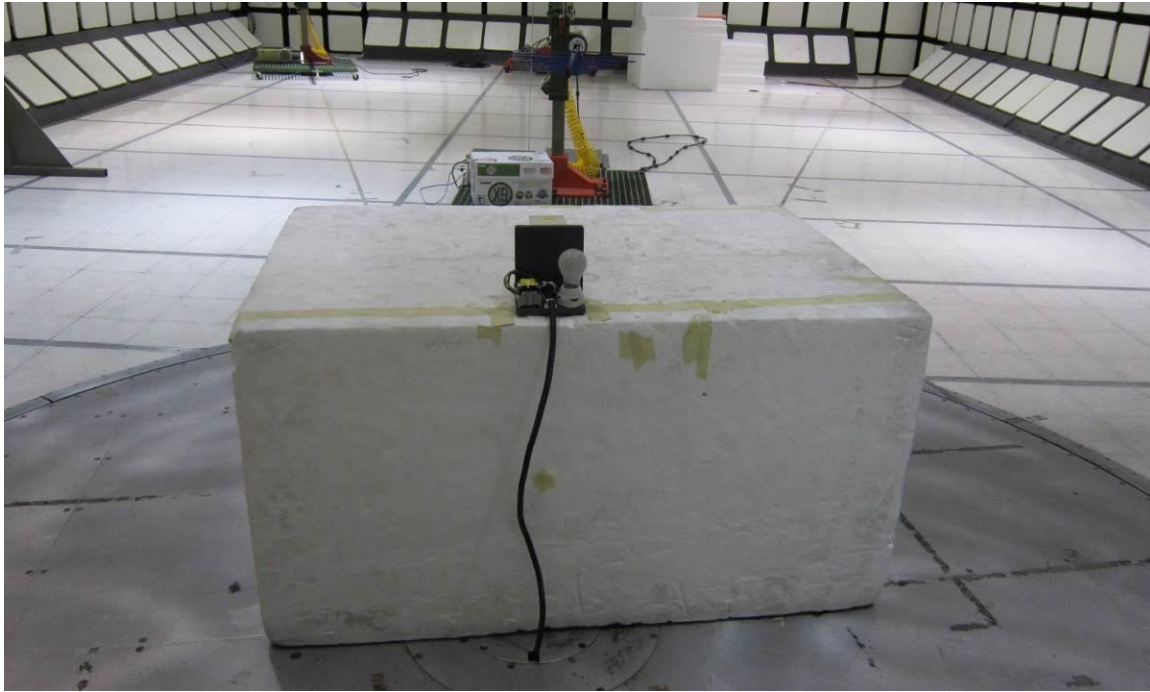


Conducted Emissions Data

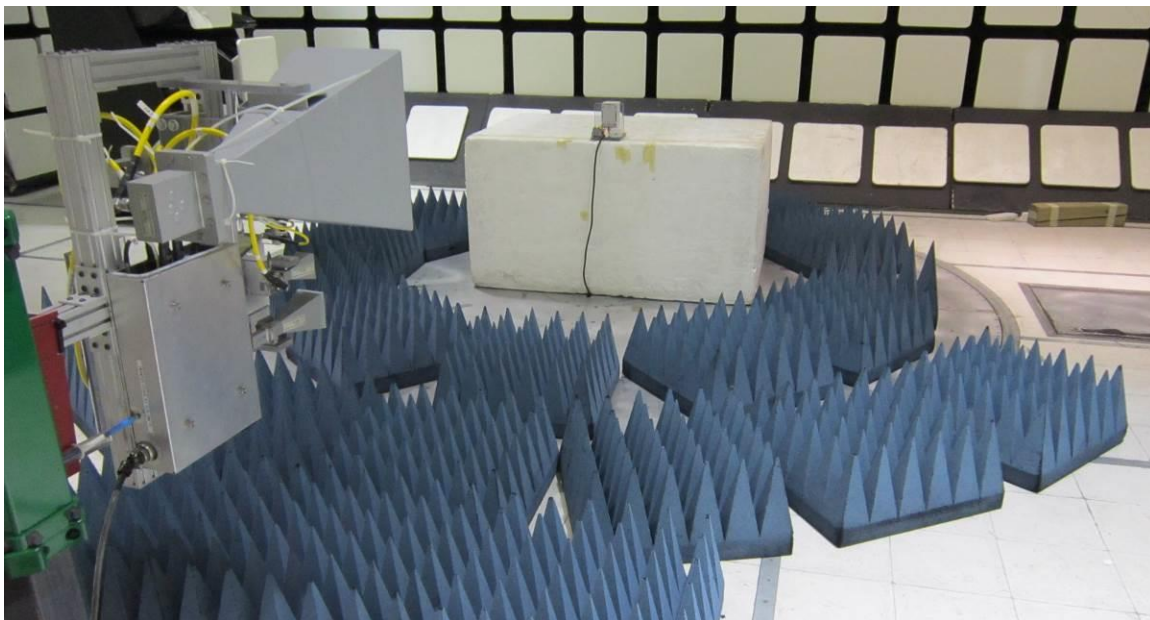
Manufacturer:Lutron										
Model#GT-RF										
Voltage:120V 60Hz										
QP=Red CaV=Gm										
Trace Markers										
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	LISN Factor dB	Path Factor dB	Level dBuV	Limit 47 CFR Part 15.207 AV dBuV	QP Margin dB	Limit QP 47 CFR Part 15.207 AV dBuV	AV Margin dB
Line										
1	0.97125	33.27	Qp	0.1	10.6	43.97	56	-12.03	-	-
2	0.969	29.86	Ca	0.1	10.6	40.56	-	-	46	-5.44
3	1.02075	33.87	Qp	0.1	10.6	44.57	56	-11.43	-	-
4	1.02525	29.55	Ca	0.1	10.6	40.25	-	-	46	-5.75
5	4.245	27.57	Qp	0.1	10.7	38.37	56	-17.63	-	-
6	4.26075	25.38	Ca	0.1	10.7	36.18	-	-	46	-9.82
13	0.51225	34.77	Qp	0.1	10.6	45.47	56	-10.53	-	-
14	0.5145	26.09	Ca	0.1	10.6	36.79	-	-	46	-9.21
Neutral										
7	0.942	32.44	Qp	0.1	10.7	43.24	56	-12.76	-	-
8	0.95775	19	Ca	0.1	10.7	29.8	-	-	46	-16.2
9	1.02075	32.04	Qp	0.1	10.7	42.84	56	-13.16	-	-
10	1.02525	18.97	Ca	0.1	10.7	29.77	-	-	46	-16.23
11	0.5325	35.49	Qp	0.1	10.7	46.29	56	-9.71	-	-
12	0.5145	18.67	Ca	0.1	10.7	29.47	-	-	46	-16.53
Qp - Quasi-Peak detector										
Ca - CISPR Average detection										

10. SETUP PHOTOS

RADIATED EMISSION CONFIGURATION BELOW 1GHz



RADIATED EMISSION CONFIGURATION ABOVE 1GHz



Conducted Emissions



END OF REPORT