



**FCC CFR47 PART 15 SUBPART C
INDUSTRY CANADA RSS-210 ISSUE 8**

TEST REPORT

FOR

Daylight Sensor

MODEL: LRF2-SSM

**FCC ID: JPZ0068
IC: 2851A-JPZ0068**

REPORT NUMBER: 13M15127

ISSUE DATE: 2013-08-26

Prepared for
**LUTRON ELECTRONICS INC
7200 SUTTER ROAD
COOPERBURG
PA 18036, USA**

Prepared by
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NVLAP LAB CODE 100255-0

Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
--	2013-08-28	Initial Issue	Joseph Danisi

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: LUTRON ELECTRONICS INC
7200 SUTTER ROAD
COOPERBURG, PA 18036, USA

EUT DESCRIPTION: Day Light Sensor

MODEL: LRF2-SSM

SERIAL NUMBER: Non-serialized production unit

DATE TESTED: 2013-07-11 to 2013-07-12

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 3	Pass

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards, using test results reported in the test report documents referenced below and/or documentation furnished by the applicant. All indications of Pass/Fail in this report are opinions expressed by UL LLC based on interpretations of these calculations. The results show that the equipment 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 by the referenced documents. 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 By:

Tested By:



Bob DeLisi
WiSE Principal Engineer
UL

Joseph Danisi
WiSE Project Lead
UL

TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 3, and RSS-210 Issue 8.

2. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 1285 Walt Whitman Rd. Melville, NY 11747, USA.

UL Melville is accredited by NVLAP, Laboratory Code 100255-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/standards/scopes/1002550.htm>.

3. CALIBRATION AND UNCERTAINTY

3.1. 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.

3.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

3.3. MEASUREMENT UNCERTAINTY

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

Test	Uncertainty
Conducted Emissions (worst case 9kHz-30MHz)	±2.0, k=2 (95%)
Radiated Emissions, 30-200MHz, Horizontal	±3.6, k=2 (95%)
Radiated Emissions, 30-200MHz, Vertical	±3.8, k=2 (95%)
Radiated Emissions, 200-1000MHz, Horizontal	±2.8, k=2 (95%)
Radiated Emissions, 200-1000MHz, Vertical	±3.7, k=2 (95%)
Radiated Emissions, 1-26GHz (worst case, Ground Plane)	±5.7, k=2 (95%)

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

4. EQUIPMENT UNDER TEST

4.1. DESCRIPTION OF EUT

Reference original UL report: job number 1001188273 project number 09CA60255. The duty cycle was measured and applied -20dB from original report.

The models listed below are in the family series the difference is color scheme.

- LRF2-SSM-WH (white)
- LRF2-SSM-BL (black)
- LRF2-SSM-BZ (bronze)
- LRF2-SSM-CLA (grey)
- LRF2-SSM-SM (custom colors)

4.2. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes permanently attached RF circuit board and the transmit antenna type is PCB trace antenna.

4.3. SOFTWARE AND FIRMWARE

The test utility software used during testing was developed and supplied by Lutron Electronics Inc.

4.4. WORST-CASE CONFIGURATION AND MODE

Testing was conducted at the low and high channels. Preliminary testing was conducted to determine the worst case orientation. This would found to be the Y-axis.

4.5. MODIFICATIONS

No modifications were made during testing.

4.1. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

None

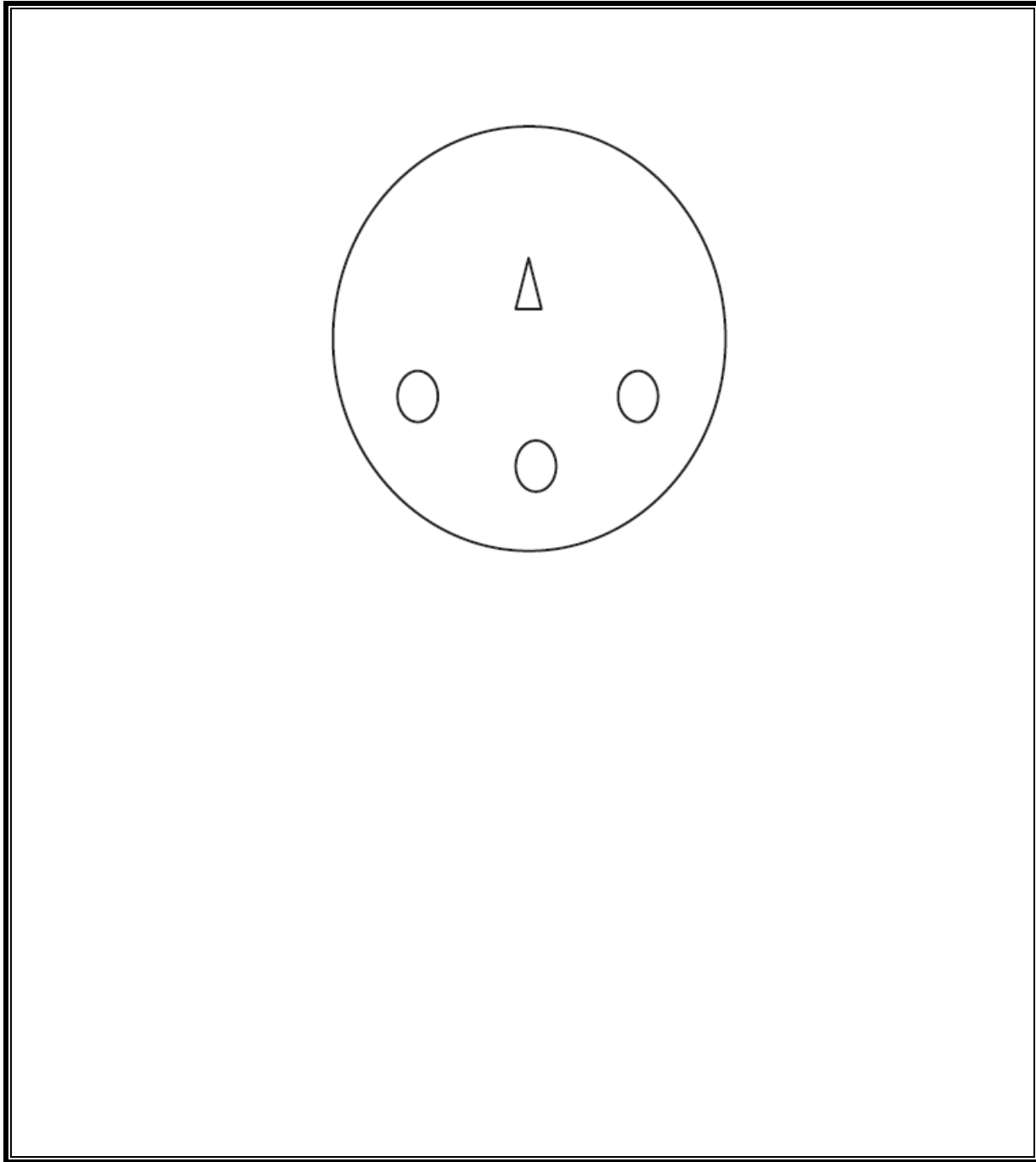
I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	DC	0	None	None	0	3vLi-on battery

TEST SETUP

The EUT is a stand-alone device which is inserted into plastic shade housing. Test software exercised the radio.

SETUP DIAGRAM FOR TESTS



5. TEST AND MEASUREMENT EQUIPMENT

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

Radiated Emissions					
Description	Manufacturer	Model	Identifier	Cal Date	Cal Due Date
30-1000MHz					
EMI Receiver	Rohde & Schwarz	ESIB26	ME5B-081	2013-01-29	2014-01-31
Log-P Antenna	Schaffner	UPA6109	44068	2013-04-03	2014-04-03
Bicon Antenna	Schaffner	VBA6106A	54	2013-04-03	2014-04-03
Switch Driver	HP	11713A	ME7A-627	N/A	N/A
System Controller	Sunol Sciences	SC99V	44396	N/A	N/A
Camera Controller	Panasonic	WV-CU254	44395	N/A	N/A
RF Switch Box	UL	1	44398	N/A	N/A
Measurement Software	UL	Version 9.5	44740	N/A	N/A
Multimeter	Fluke	83III	ME5B-305	2013-01-29	2014-01-31
Above 1GHz (Band Optimized System)					
Spectrum Analyzer	Agilent	E4446A	72823	2013-01-13	2013-01-31
Horn Antenna (1-2 GHz)	ETS	3161-01 (26°)**	51442	2008-03-28	See * below
Horn Antenna (2-4 GHz)	ETS	3161-02 (22°)**	48107	2007-09-27	See * below
Horn Antenna (4-8 GHz)	ETS	3161-03 (22°)**	48106	2007-09-27	See * below
Signal Path Controller	HP	11713A	50250	N/A	N/A
Gain Controller	HP	11713A	50251	N/A	N/A
RF Switch / Preamp Fixture	UL	BOMS1	50249	N/A	N/A
System Controller	UL	BOMS2	50252	N/A	N/A
Measurement Software	UL	Version 9.5	44740	N/A	N/A
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268	2012-12-22	2014-12-22
Multimeter	Fluke	83III	ME5B-305	2013-01-29	2014-01-31
<p>* - Note: As allowed by the calibration standard ANSI C63.4 Section 4.4.2, standard gain horns need only a one-time calibration. Only if physical damage occurs will the horn antenna require re-calibration. Gain standard horn antennas (sometimes called standard gain horn antennas) need not be calibrated beyond that which is provided by the manufacturer unless they are damaged or deterioration is suspected, or they are used at a distance closer than $2D^2/\lambda$. Gain standard horn antennas have gains that are fixed by their dimensions and dimensional tolerances.</p> <p>** - Number in parentheses denotes antenna beam width.</p>					

6. RADIATED EMISSION TEST RESULTS

6.1. TX RADIATED SPURIOUS EMISSION

LIMITS

FCC §15.231 (b)
 IC 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)
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., Sections 15.231 and 15.241.

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

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

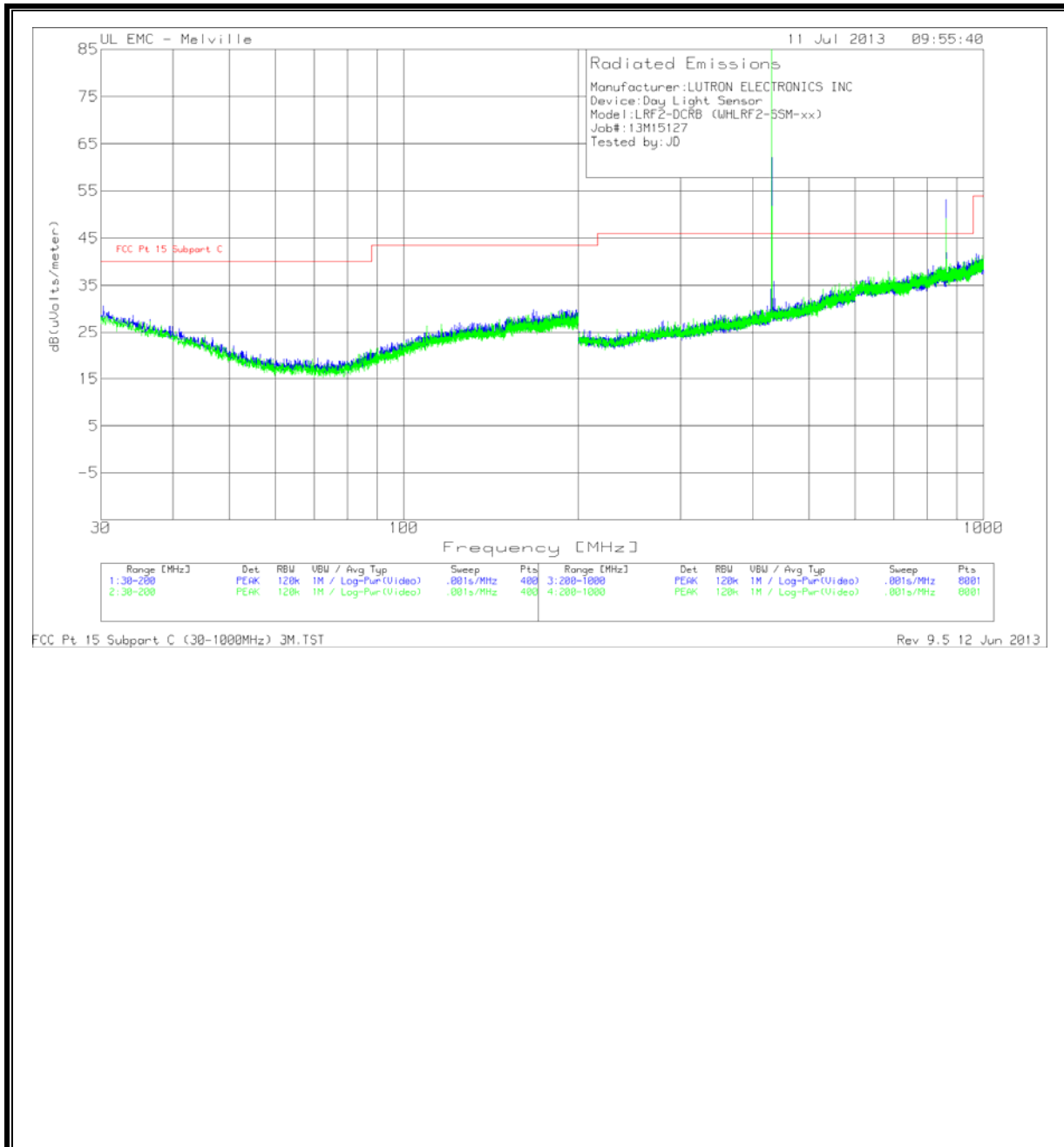
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements for emissions not related to the radio. All average emissions related to the radio were obtained by applying the duty cycle correction to the maximized peak measured values.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

RESULTS

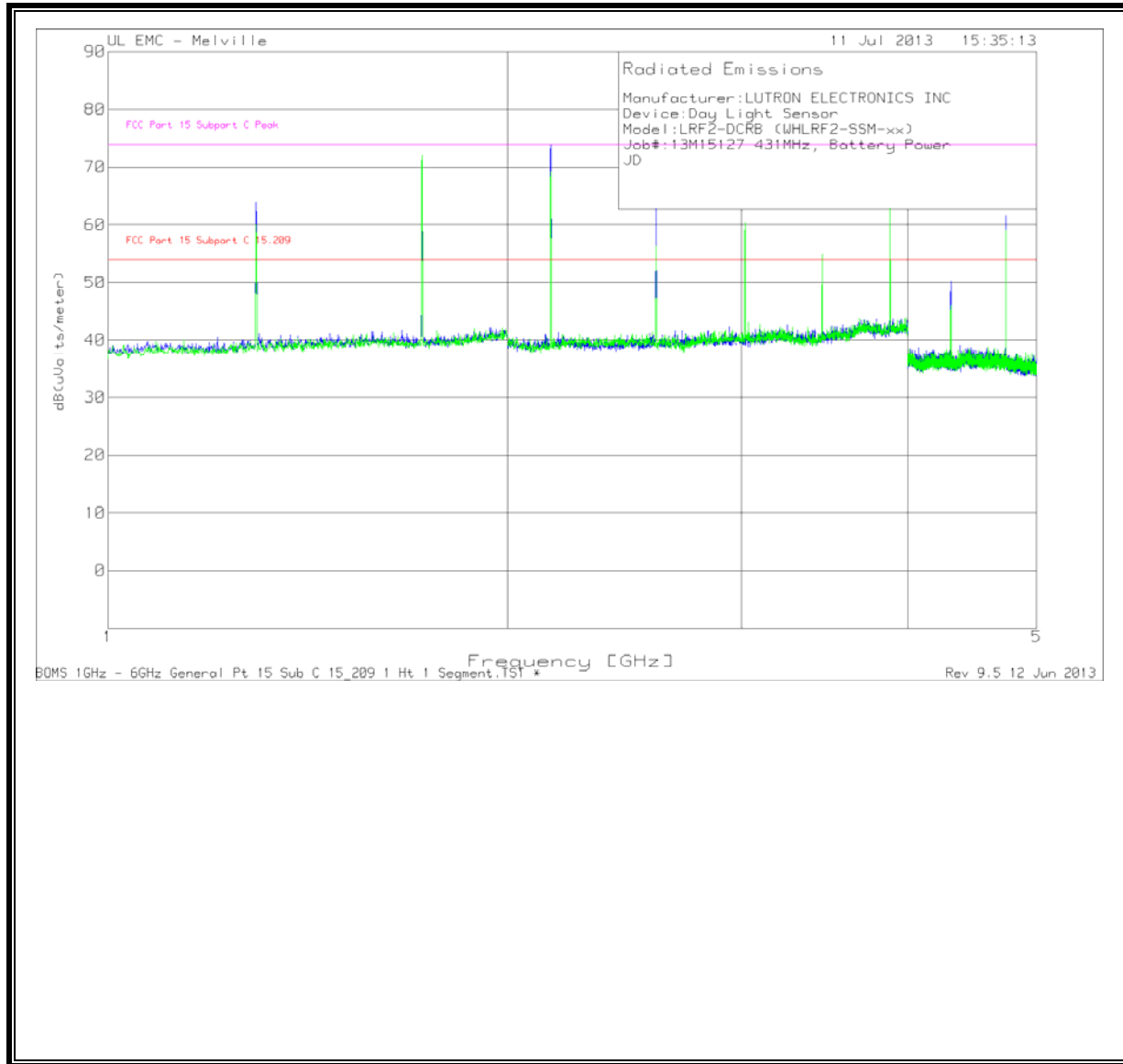
No non-compliance noted: The duty cycle correction utilized from original grant see UL report number 1001188273.

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



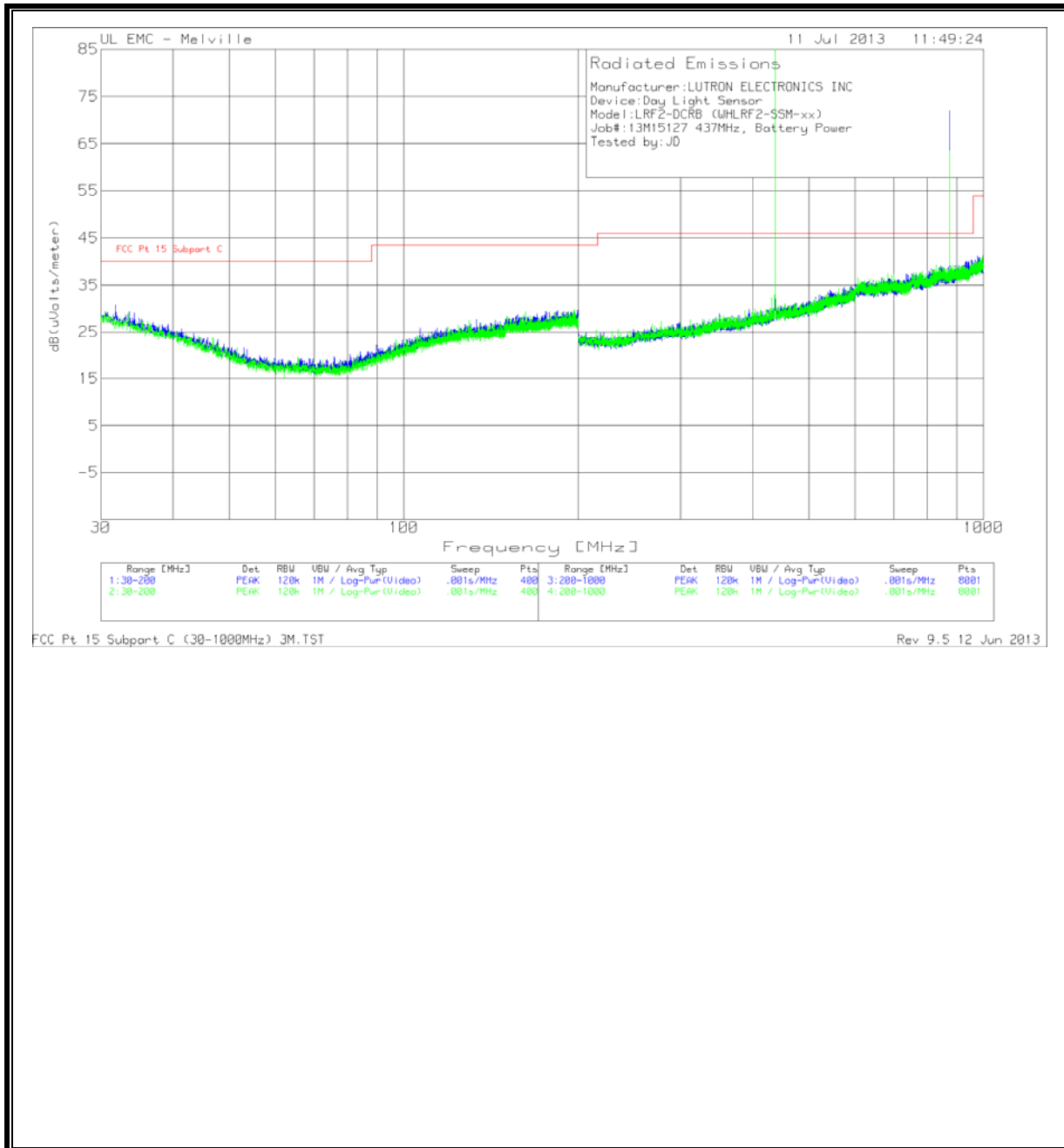
Manufacturer:LUTRON ELECTRONICS INC																	
Device:Day Light Sensor																	
Model:LRF2-DCRB (WHLRF2-SSM-xx)																	
Job#:13M15127 431MHz, Battery Power																	
Tested by:JD																	
Test Frequency (MHz)	Meter Reading (dBuV)	Detector	AF-44068 [dB/m]	GL-3M [dB]	Corrected Reading dB(uVolts/meter)	DCF (dB)	Corrected Average Reading (dBuV/m)	FCC Part 15.209 Limit (dBuV/m)	Margin (dB)	FCC Part 15.231 Limit (dBuV/m)	Margin (dB)	FCC Peak Limit (dBuV/m)	Margin	Azimuth [Degs]	Height [cm]	Polarity	
ntal 200 - 1000MHz																	
431	72.72	PK	16.2	1.4	90.32	-20	70.32	-	-	80.7	-10.38	100.7	-10.38	218	358	H	
862.0758	26.41	PK	22	2.2	50.61	-20	30.61	-	-	60.7	-30.09	80.7	-30.09	242	111	H	
:al 200 - 1000MHz																	
431	70.87	PK	16.4	1.4	88.67	-20	68.67	-	-	80.7	-12.03	100.7	-12.03	45	358	V	
862	31.97	PK	22.6	2.2	56.77	-20	36.77	-	-	60.7	-23.93	80.7	-23.93	358	258	V	
PK - Peak detector																	

HARMONICS AND TX SPURIOUS EMISSIONS ABOVE 1GHz



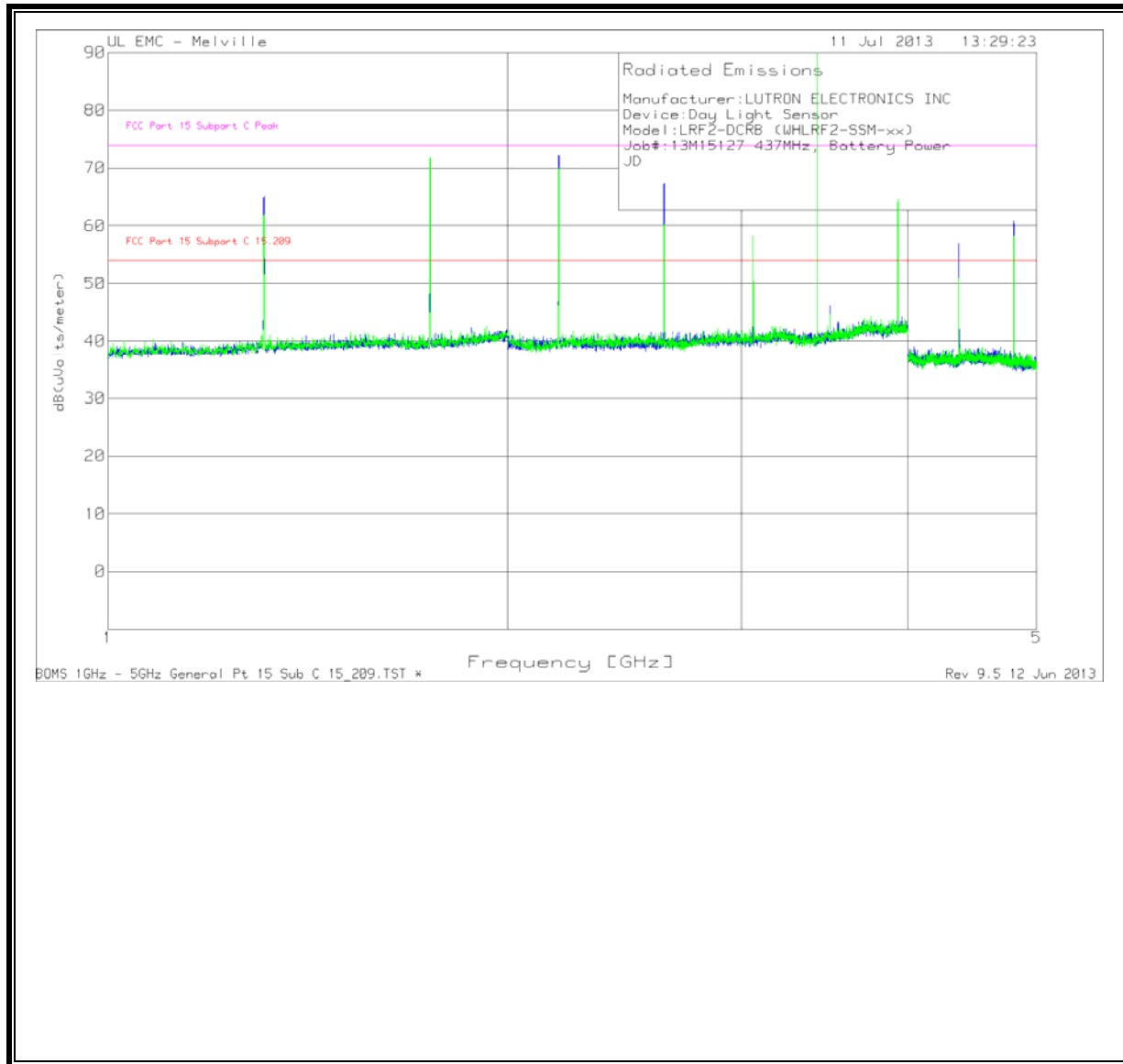
Manufacturer:LUTRON ELECTRONICS INC															
Device:Day Light Sensor															
Model:LRF2-DCRB (WHLRF2-SSM-xx)															
Job#:13M15127 431MHz, Battery Power															
JD															
Test Frequency (GHz)	Meter Reading (dBuV)	Detector	AF-51442 [dB/m]	BOMS Factor [dB]	Corrected Reading dB(uVolts/meter)	DCF (dB)	Corrected Average Reading dB(uVolts/meter)	FCC Part 15 Subpart C	Margin (dB)	FCC Part 15 Subpart C Peak	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity	
1.2931	90.87	PK	20.5	-44.15	67.22	-20	47.22	54	-6.78	74	-6.78	161	277	H	
1.2931	80.02	PK	20.5	-44.15	56.37	-20	36.37	54	-17.63	74	-17.63	203	134	V	
1.7241	94.06	PK	20.8	-43.61	71.25	-20	51.25	54	-2.75	74	-2.75	0	162	V	
1.7241	90.35	PK	20.8	-43.61	67.54	-20	47.54	54	-6.46	74	-6.46	331	361	H	
Test Frequency (GHz)	Meter Reading (dBuV)	Detector	AF-48107 [dB/m]	BOMS Factor [dB]	Corrected Reading dB(uVolts/meter)	DCF (dB)	Corrected Average Reading dB(uVolts/meter)	FCC Part 15 Subpart C	Margin (dB)	FCC Part 15 Subpart C Peak	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity	
2.1548	95.56	PK	21.4	-43.11	73.85	-20	53.85	54	-0.15	74	-0.15	188	270	H	
2.1548	93.64	PK	21.4	-43.11	71.93	-20	51.93	54	-2.07	74	-2.07	292	328	V	
2.5861	81.71	PK	21.3	-42.48	60.53	-20	40.53	54	-13.47	74	-13.47	111	393	V	
2.5861	86.93	PK	21.3	-42.48	65.75	-20	45.75	54	-8.25	74	-8.25	0	295	H	
3.0168	76.69	PK	21.5	-41.63	56.56	-20	36.56	54	-17.44	74	-17.44	353	214	H	
3.0168	81.59	PK	21.5	-41.63	61.46	-20	41.46	54	-12.54	74	-12.54	305	147	V	
3.4479	76.29	PK	22.1	-41.32	57.07	-20	37.07	54	-16.93	74	-16.93	241	258	V	
3.4479	71.38	PK	22.1	-41.32	52.16	-20	32.16	54	-21.84	74	-21.84	360	148	H	
3.8794	82.88	PK	22.6	-41.56	63.92	-20	43.92	54	-10.08	74	-10.08	162	349	H	
3.8794	82.07	PK	22.6	-41.56	63.11	-20	43.11	54	-10.89	74	-10.89	56	286	V	
Test Frequency (GHz)	Meter Reading (dBuV)	Detector	AF-48106 [dB/m]	BOMS Factor [dB]	Corrected Reading dB(uVolts/meter)	DCF (dB)	Corrected Average Reading dB(uVolts/meter)	FCC Part 15 Subpart C	Margin (dB)	FCC Part 15 Subpart C Peak	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity	
4.31	75.83	PK	27.7	-51.26	52.27	-20	32.27	54	-21.73	74	-21.73	156	269	H	
4.7406	87.07	PK	27.2	-51.84	62.43	-20	42.43	54	-11.57	74	-11.57	360	343	H	
4.31	58.76	PK	27.8	-51.26	35.3	-20	15.3	54	-38.7	74	-38.7	106	164	V	
4.31	67.14	PK	27.8	-51.26	43.68	-20	23.68	54	-30.32	74	-30.32	106	164	V	
4.741	84.44	PK	27.1	-51.85	59.69	-20	39.69	54	-14.31	74	-14.31	189	322	V	
PK - Peak detector															

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



Manufacturer:LUTRON ELECTRONICS INC																	
Device:Day Light Sensor																	
Model:LRF2-DCRB (WHLRF2-SSM-xx)																	
Job#:13M15127 437MHz, Battery Power																	
Tested by:JD																	
Test Frequency (MHz)	Meter Reading (dBuV)	Detector	AF-44068 [dB/m]	GL-3M [dB]	Corrected Reading dB(uVolts/meter)	DCF (dB)	Corrected Average Reading (dBuV/m)	FCC Part 15.209 Limit (dBuV/m)	Margin (dB)	FCC Part 15.231 Limit (dBuV/m)	Margin (dB)	FCC Peak Limit (dBuV/m)	Margin	Azimuth [Degs]	Height [cm]	Polarity	
Horizontal 200 - 1000MHz																	
436.9615	66.95	PK	16.5	1.5	84.95	-20	64.95	-	-	80.7	-15.75	100.7	-15.75	330	136	H	
874	35.79	PK	22.8	2.1	60.69	-20	40.69	-	-	60.7	-20.01	80.7	-20.01	242	111	H	
Vertical 200 - 1000MHz																	
436.9575	74.28	PK	16.5	1.5	92.28	-20	72.28	-	-	80.7	-8.42	100.7	-8.42	274	127	V	
874.0638	24.45	PK	22.5	2.1	49.05	-20	29.05	-	-	60.7	-31.65	80.7	-31.65	358	258	V	
PK - Peak detector																	

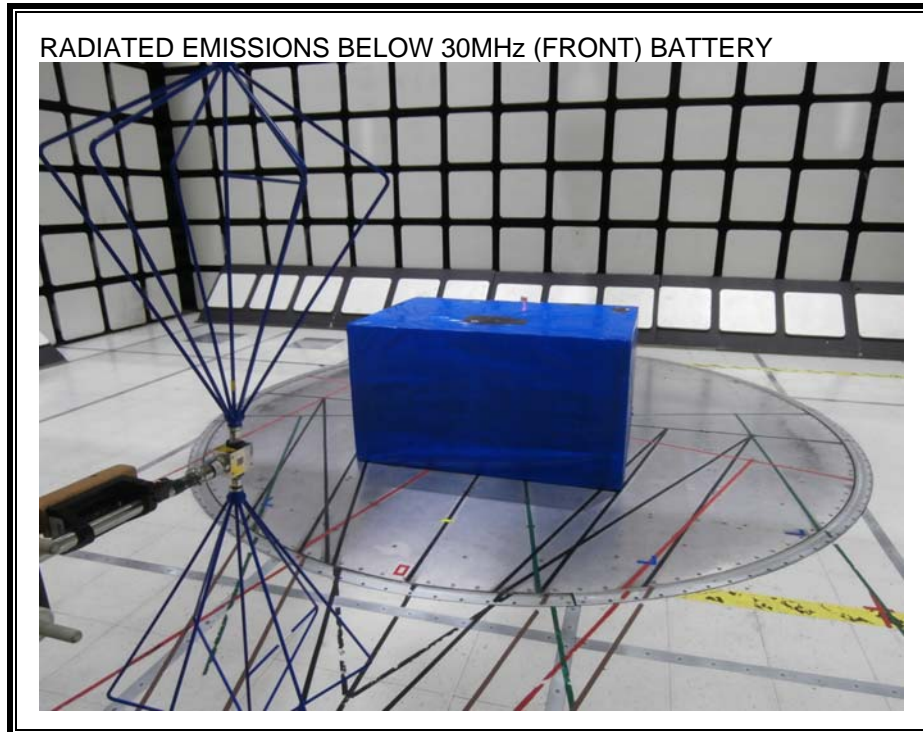
HARMONICS AND TX SPURIOUS EMISSIONS ABOVE 1GHz

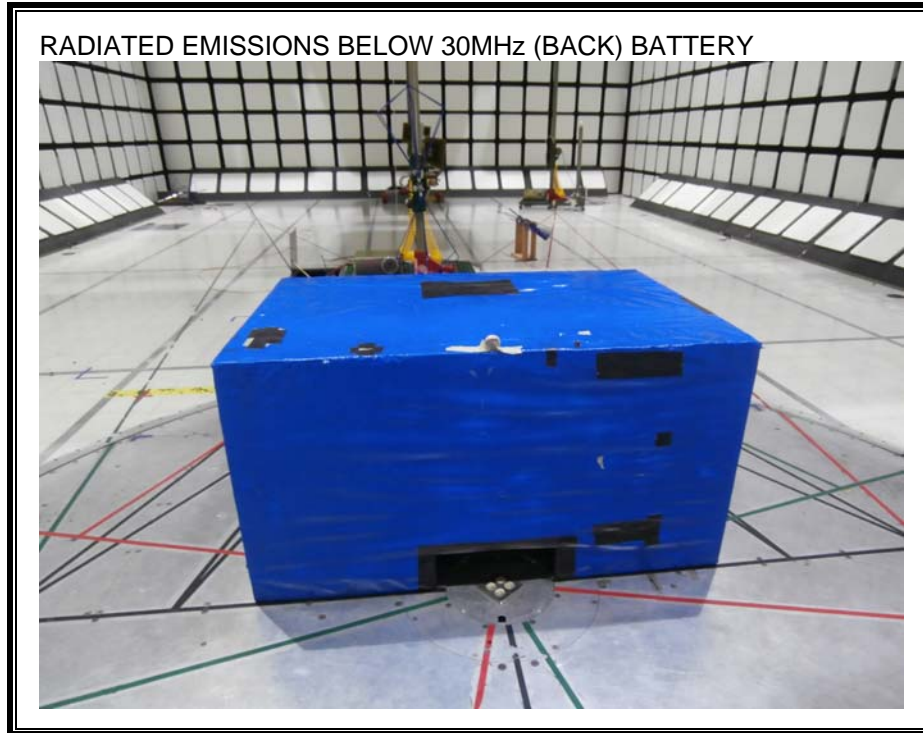


Manufacturer:LUTRON ELECTRONICS INC														
Device:Day Light Sensor														
Model:LRF2-DCRB (WHLRF2-SSM-xx)														
Job#:13M15127 437MHz, Battery Power														
JD														
Test Frequency (GHz)	Meter Reading (dBuV)	Detector	AF-51442 [dB/m]	BOMS Factor [dB]	Corrected Reading dB(uVolts/meter)	DCF (dB)	Corrected Average Reading dB(uVolts /meter)	FCC Part 15 Subpart C 15.209	Margin (dB)	FCC Part 15 Subpart C Peak	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1.3111	87.91	PK	20.5	-44.28	64.13	-20	44.13	54	-9.87	74	-9.87	103	333	V
1.311	92.39	PK	20.5	-44.28	68.61	-20	48.61	54	-5.39	74	-5.39	334	257	H
1.748	89.42	PK	20.8	-43.77	66.45	-20	46.45	54	-7.55	74	-7.55	165	166	H
1.748	94.98	PK	20.8	-43.77	72.01	-20	52.01	54	-1.99	74	-1.99	180	103	V
Test Frequency (GHz)	Meter Reading (dBuV)	Detector	AF-48107 [dB/m]	BOMS Factor [dB]	Corrected Reading dB(uVolts/meter)	DCF (dB)	Corrected Average Reading dB(uVolts /meter)	FCC Part 15 Subpart C 15.209	Margin (dB)	FCC Part 15 Subpart C Peak	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
2.184	87.35	PK	21.5	-43.12	65.73	-20	45.73	54	-8.27	74	-8.27	10	318	H
2.622	90.96	PK	21.4	-42.24	70.12	-20	50.12	54	-3.88	74	-3.88	174	237	H
3.059	74.1	PK	21.6	-41.65	54.05	-20	34.05	54	-19.95	74	-19.95	12	151	H
3.933	86.18	PK	22.7	-41.38	67.5	-20	47.5	54	-6.5	74	-6.5	166	389	H
3.496	71.67	PK	22.2	-41.48	52.39	-20	32.39	54	-21.61	74	-21.61	356	192	H
2.184	84.06	PK	21.2	-43.12	62.14	-20	42.14	54	-11.86	74	-11.86	207	217	V
2.622	83.42	PK	21.4	-42.24	62.58	-20	42.58	54	-11.42	74	-11.42	45	366	V
3.059	78.67	PK	21.8	-41.65	58.82	-20	38.82	54	-15.18	74	-15.18	336	185	V
3.932	81.01	PK	22.7	-41.35	62.36	-20	42.36	54	-11.64	74	-11.64	112	219	V
3.496	77.27	PK	22.4	-41.48	58.19	-20	38.19	54	-15.81	74	-15.81	310	226	V
Test Frequency (GHz)	Meter Reading (dBuV)	Detector	AF-48106 [dB/m]	BOMS Factor [dB]	Corrected Reading dB(uVolts/meter)	DCF (dB)	Corrected Average Reading dB(uVolts /meter)	FCC Part 15 Subpart C 15.209	Margin (dB)	FCC Part 15 Subpart C Peak	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
4.37	74.8	PK	27.7	-51.54	50.96	-20	30.96	54	-23.04	74	-23.04	141	228	V
4.37	81.89	PK	27.7	-51.54	58.05	-20	38.05	54	-15.95	74	-15.95	25	339	H
4.806	84.08	PK	27.3	-52.16	59.22	-20	39.22	54	-14.78	74	-14.78	343	304	H
4.806	81.73	PK	27.3	-52.16	56.87	-20	36.87	54	-17.13	74	-17.13	279	388	V
PK - Peak detector														

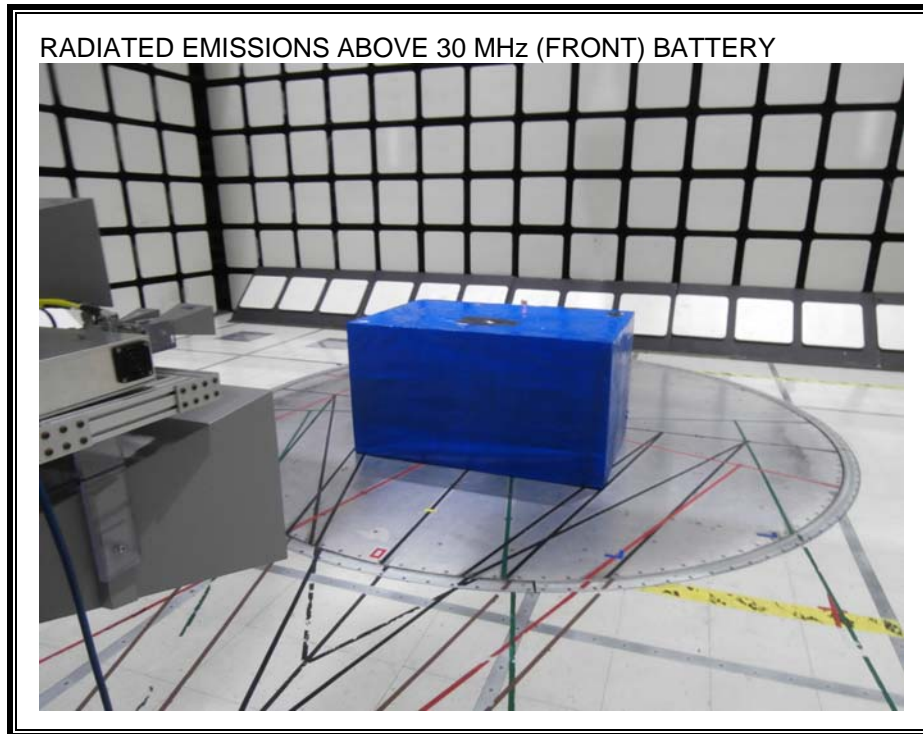
7. SETUP PHOTOS

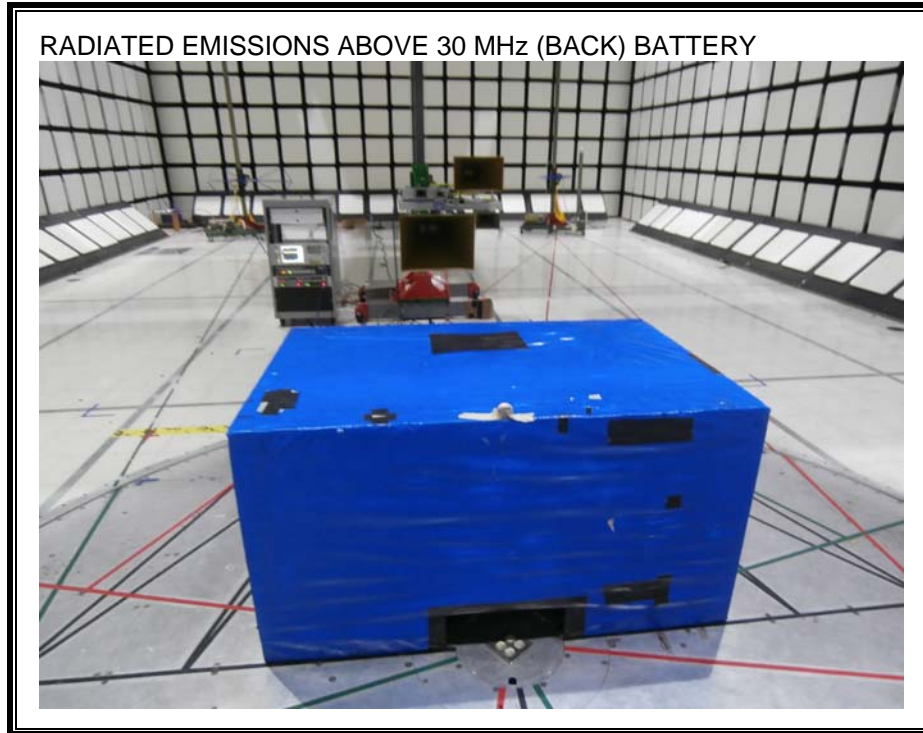
RADIATED EMISSION BELOW 30 MHz





RADIATED EMISSION ABOVE 30 MHz





END OF REPORT