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Job Number: 1001149948  
Project Number: 09CA41358  
File Number: MC15896  
Date: September 17, 2009  
Model: RRD-6ND

# Electromagnetic Compatibility Test Report

For

## LUTRON ELECTRONICS INC

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Underwriters Laboratories Inc.  
1285 Walt Whitman Rd.  
Melville, NY 11747

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Tel: (631) 271-6200 Fax: (631) 439-6095

Job Number: 1001149948 File Number: MC15896 Page 2 of 102  
Model Number: RRD-6ND  
Client Name: LUTRON ELECTRONICS INC  
FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

## Test Report Details

Tests Performed By: **Underwriters Laboratories Inc.  
1285 Walt Whitman Rd.  
Melville, NY 11747**

Tests Performed For: **LUTRON ELECTRONICS INC  
7200 SUTTER ROAD  
COOPERBURG, PA 18036**

Applicant Contact: **BOB SPEHALSKI**  
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Test Report Date: **September 17, 2009**

Product Type: **Dimmer with transceiver**

Product standards: **FCC Part 15, Subpart B and Subpart C paragraph 15.231**

Model Number: **RRD-6ND**

Sample Serial Number: **Non-serialized production unit**

EUT Category: **Periodic Low Power Transmitter**

Testing Start Date: **September 1, 2009**

Date Testing Complete: **September 17, 2009**

**Overall Results: Compliant**

Underwriters Laboratories Inc. reports apply only to the specific samples tested under stated test conditions. All samples tested were in good operating condition throughout the entire test program. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. Underwriters Laboratories Inc. shall have no liability for any deductions, inferences or generalizations drawn by the client or others from Underwriters Laboratories Inc. issued reports. This report shall not be used to claim, constitute or imply product certification, approval, or endorsement by NVLAP, NIST, A2LA, or any agency of the US government.

This report may contain test results that are not covered by the NVLAP or A2LA accreditation. The scope of accreditation is limited to the specific tests that are listed on the NVLAP and/or A2LA websites referenced at the end of this report.

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Report Revision History

Revision Date	Description	Revised By	Revision Reviewed By
None	Original	-	-

**1.0 GENERAL - Product Description**

**1.1 Equipment Description**

The DUT is a wall-mounted dimmer/switch. It contains a FM transceiver and an antenna, which is not accessible to the user. It is used as part of an integrated lighting control system. The purpose of the RF communication is to transmit and receive command signals. Transmitted commands allow the triggering of system events. Received commands allow for updating of control indicator status.

Testing of the RRD-6ND represents the following models: HRD-6D, RRD-6D, SRD-6D, MRF2-600M MRF2-6ANS, HRD-6ND, RRD-10D, SRD-10D, MRF2-6MLV, MRF2-8ANS, HRD-10D, RRD-10ND, SRD-10ND, MRF2-6ND, HRD-10ND, RRD-8ANS, SRD-8ANS, MRF2-10D, HRD-8ANS MRF2-10ND

All of the models listed above are identical from a radio aspect. They differ in software and / or load control aspect. The prefix (HRD, RRD, etc. denotes the type of system these devices communicate with. The communication protocol, data packet type, etc. are all the same, the only difference is a software bit that tells the device which system they are to be a part of. The second section of the model number denotes the load control type. -6D, -600M, and -6MLV are all 600-watt dimmers. -6ND is a 600 watt dimmer with neutral connection. -10D is a 1000-watt dimmer. -10ND is a 1000 watt dimmer with neutral connection. -6ANS and -8ANS are switches with a 6 amp and 8 amp rating respectively.

Per FCC Part 2.1093 (C) this device is not required to undergo testing for radio-frequency radiation exposure.

Antenna description: It is a permanently attached to the RF circuit board and the transmit antenna type is a PCB trace antenna.

**1.2 Equipment Marking Plate**

Not available.

**1.3 Device Configuration During Test**

**1.3.1 Equipment Used During Test:**

Use	Product Type	Manufacturer	Model	Comments
<b>EUT</b>	Low Power Transceiver	LUTRON ELECTRONICS INC	RRD-6ND	None
<b>SIM</b>	Lamp	GE	100W	Bulb used as a load.

Note: **EUT** - Equipment Under Test, **AE** - Auxiliary/Associated Equipment, or **SIM** - Simulator (Not Subjected to Test)

**1.3.2 Input/Output Ports:**

Port #	Name	Type*	Cable Max. >3m (Y/N)	Cable Shielded (Y/N)	Comments
0	Enclosure	N/E	—	—	None
1	Mains	AC	Y	N	None

Note:  
 AC = AC Power Port DC = DC Power Port N/E = Non-Electrical  
 I/O = Signal Input or Output Port (Not Involved in Process Control)  
 TP = Telecommunication Ports

**1.3.3 EUT Internal Operating Frequencies:**

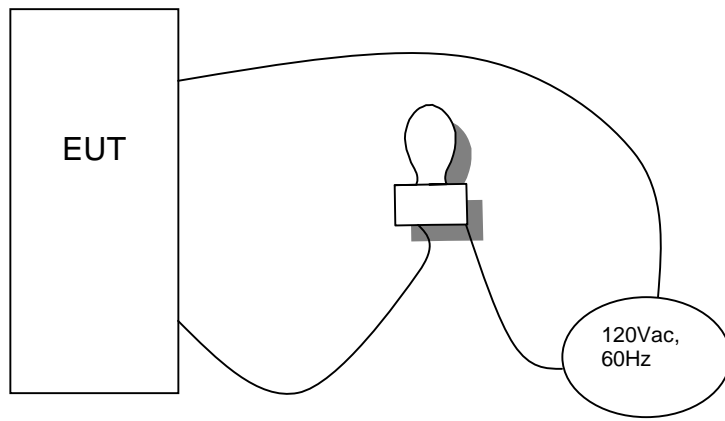
Frequency (MHz)	Description
120Hz	Control Signal for Triac (dimming) control
0.00111	PWM Signal
0.0625	Bi-directional data
0.132	Switching signal
0.203	IF
1	SPI Interface (EEPROM)
3	SPI Interface (CC1101)
26	Clock
13	Bus
431 – 437	Carrier Fundamental frequency range

**1.3.4 Power Interface:**

Mode # /Rated	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
Rated	120	-	-	AC – 60Hz	1	None
1	120	-	-	AC – 60Hz	1	None

**1.4 Block Diagram:**

The diagram below illustrates the configuration of the equipment above.



**1.5 EUT Configurations**

Mode #	Description
1	Stand Alone connected to lamp load

**1.6 EUT Operation Modes**

Mode #	Description
1	Continuous Transmission with modulation tuned to 431MHz
2	Continuous Transmission with modulation tuned to 437MHz
3	Normal transmission with modulation tuned to 431MHz
4	Normal transmission with modulation tuned to 437MHz
5	Receive mode tuned to 431MHz
6	Receive mode tuned to 437MHz



## 2.0 Summary

The tests listed in the Summary of Testing section of this report have been performed and the results recorded by Underwriters Laboratories Inc. in accordance with the procedures stated in each test requirement and specification. The applicant determined the list of tests performed were applicable to the Equipment Under Test. As a result, the subject product has been verified to comply or not comply as noted in the Summary of Testing with each test specification. The test results relate only to the items tested.

### 2.1 Deviations from standard test methods

None

### 2.2 Device Modifications Necessary for Compliance

None

### 2.3 Reference Standards

Standard Number	Standard Name	Standard Date
FCC Part 15, Subpart C, 15.231	Code of Federal Regulations, Part 15, Radio Frequency Devices	2008
FCC Part 15, Subpart B	Code of Federal Regulations, Part 15, Radio Frequency Devices	2008
RSS-GEN, Issue 2	General Requirements and Information for the Certification of Radiocommunication Equipment	2007
RSS-210, Issue 7	Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment	2007
ICES-003, Issue 4	Digital Apparatus	2004

### 2.4 Results Summary

This product is considered a periodic transmitter with a Class B receiver.

Requirement – Test	Result (Compliant / Non-Compliant)*
Conducted Emissions - Mains	Compliant
Fundamental Radiated Emissions	Compliant
Spurious Radiated Emissions	Compliant
Occupied Bandwidth	Compliant
Pulse Train - Averaging Factor	Compliant
Cease Operation	Compliant
Radiated Emissions - Unintentional	Compliant


Job Number: 1001149948 File Number: MC15896 Page 11 of 102  
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Client Name: LUTRON ELECTRONICS INC  
FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

Test Engineer:



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Conformity Assessment Services-

Reviewer:



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International EMC Services  
Conformity Assessment Services

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

### 3.0 Calibration of Equipment Used for Measurement

All test equipment and test accessories are calibrated on a regular basis. The maximum time between calibrations is one year or the manufacturers' recommendation, whichever is less.

All test equipment calibrations are traceable to the National Institute of Standards and Technology (NIST); therefore, all test data recorded in this report is traceable to NIST.

### 4.0 EMISSIONS TEST RESULTS

The emissions tests were performed according to following regulations:

----- North America -----

Code of Federal Regulations Title 47	Part 15, Subpart B and C, Radio Frequency Devices
Industry Canada	RSS-GEN, RSS-210 and ICES-003

Unless specified otherwise in the individual Methods, the tests shall be conducted under the following ambient conditions. Confirmation of these conditions shall be verified at the time the test is conducted.

Ambient Temperature, °C	22.5 ± 2.5	Relative Humidity, %	45 ± 15	Barometric Pressure, mBar	950 ± 150
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**4.1 Test Conditions and Results – MAINS TERMINAL – CONDUCTED EMISSIONS**

Test Description	Measurements were made on a ground plane. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN.	
Basic Standard	FCC Part 15, Subpart B, 15.107 and Subpart C, 15.207	
UL LPG	80-EM-S0026	
	Frequency range on each side of line	Measurement Point
Fully configured sample scanned over the following frequency range	150kHz to 30MHz	Mains
<b>Limits</b>		
Frequency (MHz)	Limit (dBµV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50
Supplementary information: None		

**Table 1 Conducted Emissions EUT Configuration Settings**

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	1
1	1	2
1	1	5
1	1	6
Supplementary information: None		

**Table 2 Conducted Emissions Test Equipment**

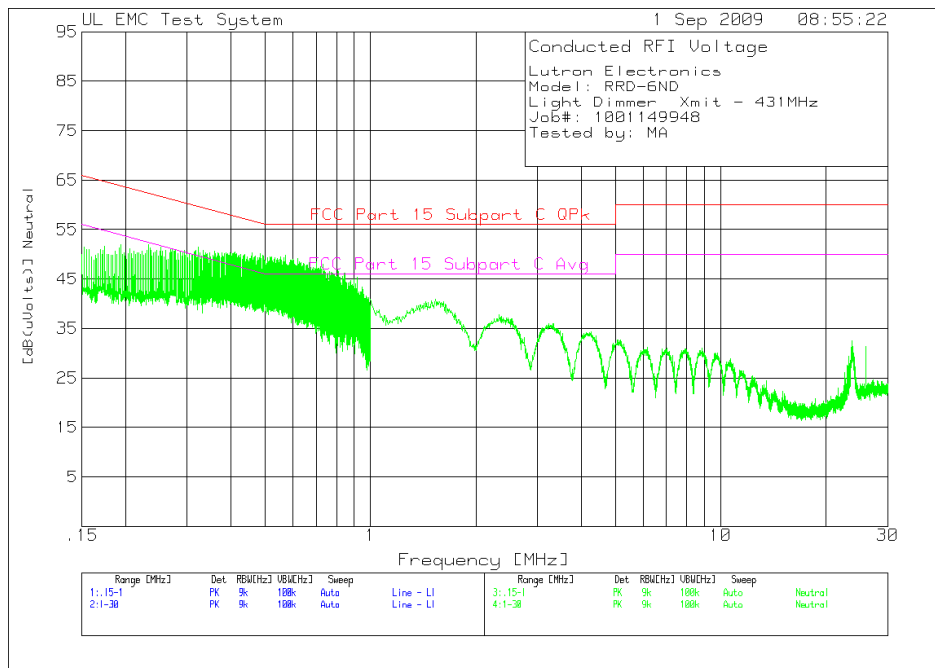
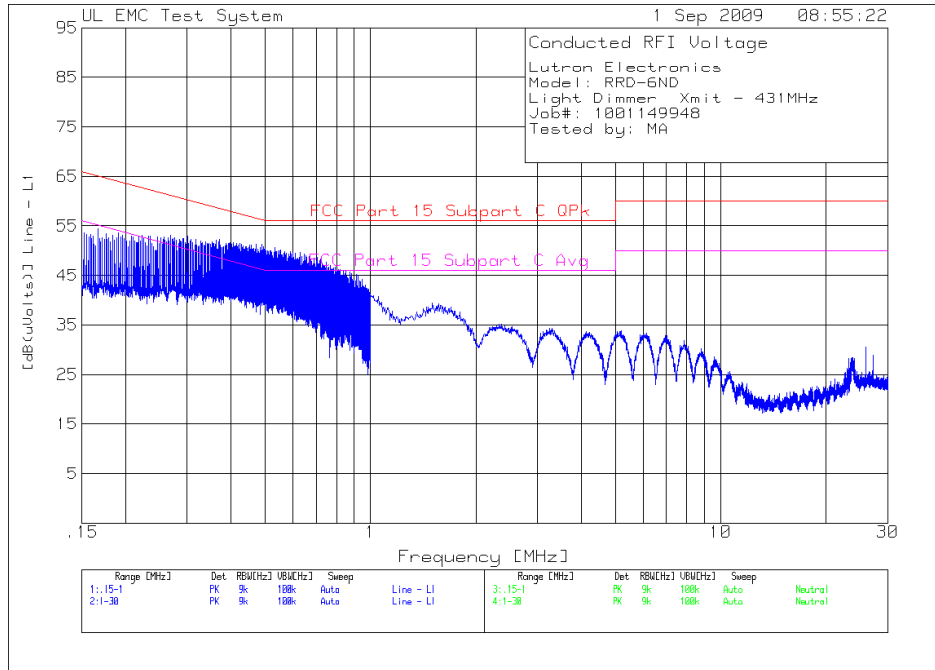
Test Equipment Used			
Description	Manufacturer	Model	Identifier
Conducted Emissions – GP 1			
EMI Receiver	Rohde & Schwarz	ESIB26	ME5B-081
LISN	EMCO	3825/2R	ME5-790
Switch Driver	HP	11713A	44397
RF Switch Box	UL	4	44404

Test Equipment Used			
Description	Manufacturer	Model	Identifier
Measurement Software	UL	Version 9.3	44736
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	43734
Multimeter	Fluke	83III	ME5B-306

Figure 1 Test Setup for Conducted Emissions



**Figure 2 Conducted Emissions Graph**



**Table 3 Conducted Emissions Data Points**

Lutron Electronics  
 Model: RRD-6ND  
 Light Dimmer Xmit - 431MHz  
 Job#: 1001149948  
 Tested by: MA

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6		
=====													
Line - L1	.15	-	1MHz	-----									
1	.15935	41.26 pk	12	0	53.26	65.5	55.5	-	-	-	-		
				Margin [dB]		-12.24	-2.24	-	-	-	-		
2	.16666	42.59 pk	11.9	0	54.49	65.1	55.1	-	-	-	-		
				Margin [dB]		-10.61	-.61	-	-	-	-		
3	.19098	41.93 pk	11.6	0	53.53	64	54	-	-	-	-		
				Margin [dB]		-10.47	-.47	-	-	-	-		
4	.21767	41.45 pk	11.3	0	52.75	62.9	52.9	-	-	-	-		
				Margin [dB]		-10.15	-.15	-	-	-	-		
5	.25202	41.57 pk	11.1	0	52.67	61.7	51.7	-	-	-	-		
				Margin [dB]		-9.03	.97	-	-	-	-		
6	.29317	41.56 pk	10.9	0	52.46	60.4	50.4	-	-	-	-		
				Margin [dB]		-7.94	2.06	-	-	-	-		
7	.34656	40.6 pk	10.8	0	51.4	59	49	-	-	-	-		
				Margin [dB]		-7.6	2.4	-	-	-	-		
8	.37087	41.5 pk	10.7	0	52.2	58.5	48.5	-	-	-	-		
				Margin [dB]		-6.3	3.7	-	-	-	-		
9	.40624	40.95 pk	10.7	0	51.65	57.7	47.7	-	-	-	-		
				Margin [dB]		-6.05	3.95	-	-	-	-		
10	.45725	40.58 pk	10.6	0	51.18	56.7	46.7	-	-	-	-		
				Margin [dB]		-5.52	4.48	-	-	-	-		
11	.50146	39.94 pk	10.6	0	50.54	56	46	-	-	-	-		
				Margin [dB]		-5.46	4.54	-	-	-	-		
12	.5693	39.27 pk	10.5	0	49.77	56	46	-	-	-	-		
				Margin [dB]		-6.23	3.77	-	-	-	-		
13	.61181	38.69 pk	10.5	0	49.19	56	46	-	-	-	-		
				Margin [dB]		-6.81	3.19	-	-	-	-		
14	.69003	37.93 pk	10.5	0	48.43	56	46	-	-	-	-		
				Margin [dB]		-7.57	2.43	-	-	-	-		
15	.77641	35.81 pk	10.5	0	46.31	56	46	-	-	-	-		
				Margin [dB]		-9.69	.31	-	-	-	-		
16	.84867	35.52 pk	10.4	0	45.92	56	46	-	-	-	-		
				Margin [dB]		-10.08	-.08	-	-	-	-		
17	.92093	34.39 pk	10.4	0	44.79	56	46	-	-	-	-		
				Margin [dB]		-11.21	-1.21	-	-	-	-		

LIMIT 1: FCC Part 15 Subpart C QPk  
 LIMIT 2: FCC Part 15 Subpart C Avg  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - denotes average log detection



No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
-----											
Line - L1	.15	-	1MHz	-----							
18	.98657	31.91 pk	10.4	0	42.31	56	46	-	-	-	-
				Margin [dB]		-13.69	-3.69	-	-	-	-
Line - L1	1	-	30MHz	-----							
19	1.5047	29.08 pk	10.3	0	39.38	56	46	-	-	-	-
				Margin [dB]		-16.62	-6.62	-	-	-	-
-----											
Neutral	.15	-	1MHz	-----							
20	.15255	39.29 pk	12.1	0	51.39	65.9	55.9	-	-	-	-
				Margin [dB]		-14.51	-4.51	-	-	-	-
21	.17432	39.78 pk	11.8	0	51.58	64.8	54.8	-	-	-	-
				Margin [dB]		-13.22	-3.22	-	-	-	-
22	.19132	39.69 pk	11.6	0	51.29	64	54	-	-	-	-
				Margin [dB]		-12.71	-2.71	-	-	-	-
23	.2107	39.25 pk	11.4	0	50.65	63.2	53.2	-	-	-	-
				Margin [dB]		-12.55	-2.55	-	-	-	-
24	.23247	40.68 pk	11.2	0	51.88	62.4	52.4	-	-	-	-
				Margin [dB]		-10.52	-.52	-	-	-	-
25	.26001	39.78 pk	11.1	0	50.88	61.4	51.4	-	-	-	-
				Margin [dB]		-10.52	-.52	-	-	-	-
26	.27208	39.95 pk	11	0	50.95	61.1	51.1	-	-	-	-
				Margin [dB]		-10.15	-.15	-	-	-	-
27	.31816	39.85 pk	10.9	0	50.75	59.8	49.8	-	-	-	-
				Margin [dB]		-9.05	.95	-	-	-	-
28	.35472	38.96 pk	10.8	0	49.76	58.9	48.9	-	-	-	-
				Margin [dB]		-9.14	.86	-	-	-	-
29	.39825	39.58 pk	10.7	0	50.28	57.9	47.9	-	-	-	-
				Margin [dB]		-7.62	2.38	-	-	-	-
30	.45878	39.77 pk	10.6	0	50.37	56.7	46.7	-	-	-	-
				Margin [dB]		-6.33	3.67	-	-	-	-
31	.50095	38.04 pk	10.6	0	48.64	56	46	-	-	-	-
				Margin [dB]		-7.36	2.64	-	-	-	-
32	.54448	38.24 pk	10.5	0	48.74	56	46	-	-	-	-
				Margin [dB]		-7.26	2.74	-	-	-	-
33	.6198	38.65 pk	10.5	0	49.15	56	46	-	-	-	-
				Margin [dB]		-6.85	3.15	-	-	-	-
34	.70125	37.95 pk	10.5	0	48.45	56	46	-	-	-	-
				Margin [dB]		-7.55	2.45	-	-	-	-
35	.77249	35.8 pk	10.5	0	46.3	56	46	-	-	-	-
				Margin [dB]		-9.7	.3	-	-	-	-
36	.84119	35.67 pk	10.5	0	46.17	56	46	-	-	-	-
				Margin [dB]		-9.83	.17	-	-	-	-
37	.96208	30.72 pk	10.4	0	41.12	56	46	-	-	-	-
				Margin [dB]		-14.88	-4.88	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C QPk  
 LIMIT 2: FCC Part 15 Subpart C Avg  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - denotes average log detection

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 Client Name: LUTRON ELECTRONICS INC  
 FCC ID: JPZ-0062    IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====											
38	1.53371	30.46 pk	10.4	0	40.86	56	46	-	-	-	-
				Margin [dB]		-15.14	-5.14	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C QPk  
 LIMIT 2: FCC Part 15 Subpart C Avg  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
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 Client Name: LUTRON ELECTRONICS INC  
 FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

Lutron Electronics  
 Model: RRD-6ND  
 Light Dimmer Xmit - 431MHz  
 Job#: 1001149948  
 Tested by: MA

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====										
Line - L1 .15 - 1MHz										
.15813	26.08 ave	12	0	38.08	65.6	55.6	-	-	-	-
			Margin [dB]:		-27.52	-17.52	-	-	-	-
.16784	27.82 ave	11.9	0	39.72	65.1	55.1	-	-	-	-
			Margin [dB]:		-25.38	-15.38	-	-	-	-
.19136	26.85 ave	11.6	0	38.45	64	54	-	-	-	-
			Margin [dB]:		-25.55	-15.55	-	-	-	-
.21793	26.86 ave	11.3	0	38.16	62.9	52.9	-	-	-	-
			Margin [dB]:		-24.74	-14.74	-	-	-	-
.25304	27.79 ave	11.1	0	38.89	61.7	51.7	-	-	-	-
			Margin [dB]:		-22.81	-12.81	-	-	-	-
.29266	27.55 ave	10.9	0	38.45	60.4	50.4	-	-	-	-
			Margin [dB]:		-21.95	-11.95	-	-	-	-
.3468	27.11 ave	10.8	0	37.91	59	49	-	-	-	-
			Margin [dB]:		-21.09	-11.09	-	-	-	-
.37079	26.73 ave	10.7	0	37.43	58.5	48.5	-	-	-	-
			Margin [dB]:		-21.07	-11.07	-	-	-	-
.40483	26.18 ave	10.7	0	36.88	57.8	47.8	-	-	-	-
			Margin [dB]:		-20.92	-10.92	-	-	-	-
.45694	26.23 ave	10.6	0	36.83	56.7	46.7	-	-	-	-
			Margin [dB]:		-19.87	-9.87	-	-	-	-
.50131	25.94 ave	10.6	0	36.54	56	46	-	-	-	-
			Margin [dB]:		-19.46	-9.46	-	-	-	-
.56956	25.4 ave	10.5	0	35.9	56	46	-	-	-	-
			Margin [dB]:		-20.1	-10.1	-	-	-	-
.6115	23.89 ave	10.5	0	34.39	56	46	-	-	-	-
			Margin [dB]:		-21.61	-11.61	-	-	-	-
.69051	22.02 ave	10.5	0	32.52	56	46	-	-	-	-
			Margin [dB]:		-23.48	-13.48	-	-	-	-
.77628	20.44 ave	10.5	0	30.94	56	46	-	-	-	-
			Margin [dB]:		-25.06	-15.06	-	-	-	-
.84877	20.3 ave	10.4	0	30.7	56	46	-	-	-	-

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - denotes average log detection  
 ave - denotes average detection

LIMIT 1: FCC Part 15 Subpart C QPk  
 LIMIT 2: FCC Part 15 Subpart C Avg  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====										
Line - L1 .15 - 1MHz										
.9201	18.69 ave	10.4	0	29.09	56	46	-	-	-	-
			Margin [dB]:		-25.3	-15.3	-	-	-	-
			0	29.09	56	46	-	-	-	-
.98686	13.67 ave	10.4	0	24.07	56	46	-	-	-	-
			Margin [dB]:		-26.91	-16.91	-	-	-	-
			0	24.07	56	46	-	-	-	-
			Margin [dB]:		-31.93	-21.93	-	-	-	-
Line - L1 1 - 30MHz										
1.5046	19.61 ave	10.3	0	29.91	56	46	-	-	-	-
			Margin [dB]:		-26.09	-16.09	-	-	-	-
Neutral .15 - 1MHz										
.15302	29.15 ave	12.1	0	41.25	65.8	55.8	-	-	-	-
			Margin [dB]:		-24.55	-14.55	-	-	-	-
.17344	27.15 ave	11.8	0	38.95	64.8	54.8	-	-	-	-
			Margin [dB]:		-25.85	-15.85	-	-	-	-
.19146	26.66 ave	11.6	0	38.26	64	54	-	-	-	-
			Margin [dB]:		-25.74	-15.74	-	-	-	-
.20981	27.25 ave	11.4	0	38.65	63.2	53.2	-	-	-	-
			Margin [dB]:		-24.55	-14.55	-	-	-	-
.23306	27.07 ave	11.2	0	38.27	62.3	52.3	-	-	-	-
			Margin [dB]:		-24.03	-14.03	-	-	-	-
.25873	26.57 ave	11.1	0	37.67	61.5	51.5	-	-	-	-
			Margin [dB]:		-23.83	-13.83	-	-	-	-
.27201	27.8 ave	11	0	38.8	61.1	51.1	-	-	-	-
			Margin [dB]:		-22.3	-12.3	-	-	-	-
.31821	26.84 ave	10.9	0	37.74	59.8	49.8	-	-	-	-
			Margin [dB]:		-22.06	-12.06	-	-	-	-
.35508	26.78 ave	10.8	0	37.58	58.8	48.8	-	-	-	-
			Margin [dB]:		-21.22	-11.22	-	-	-	-
.39889	27.17 ave	10.7	0	37.87	57.9	47.9	-	-	-	-
			Margin [dB]:		-20.03	-10.03	-	-	-	-
.45858	26.35 ave	10.6	0	36.95	56.7	46.7	-	-	-	-
			Margin [dB]:		-19.75	-9.75	-	-	-	-
.50064	26.11 ave	10.6	0	36.71	56	46	-	-	-	-
			Margin [dB]:		-19.29	-9.29	-	-	-	-
.54377	24.28 ave	10.6	0	34.88	56	46	-	-	-	-
			Margin [dB]:		-21.12	-11.12	-	-	-	-
.61978	23.87 ave	10.5	0	34.37	56	46	-	-	-	-
			Margin [dB]:		-21.63	-11.63	-	-	-	-
.70179	22.42 ave	10.5	0	32.92	56	46	-	-	-	-
			Margin [dB]:		-23.08	-13.08	-	-	-	-

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - denotes average log detection  
 ave - denotes average detection

LIMIT 1: FCC Part 15 Subpart C QPk  
 LIMIT 2: FCC Part 15 Subpart C Avg  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

Job Number: 1001149948 File Number: MC15896 Page 21 of 102  
 Model Number: RRD-6ND  
 Client Name: LUTRON ELECTRONICS INC  
 FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

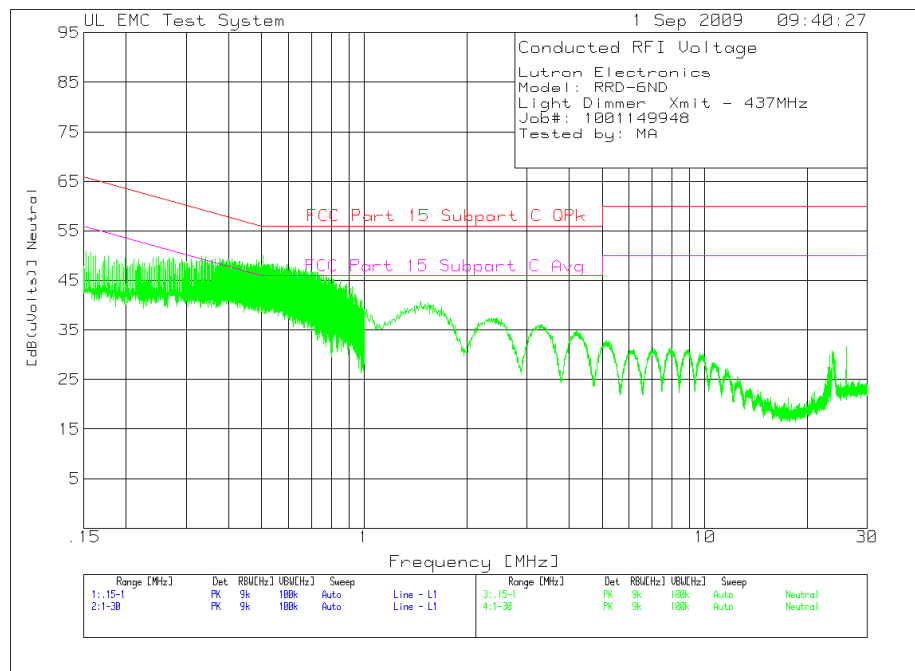
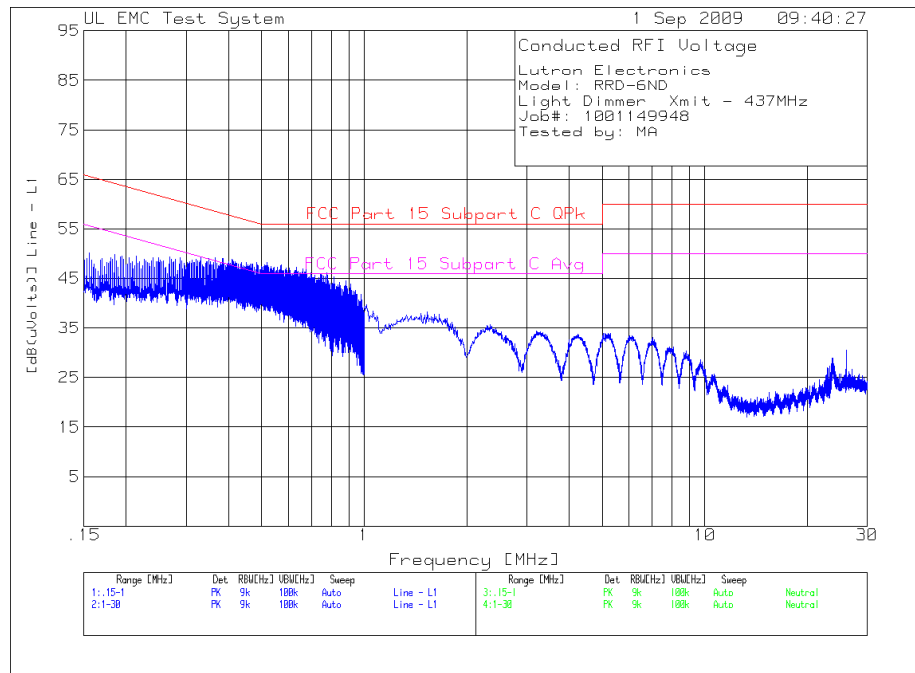
Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	[dB(uVolts)]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Neutral .15 - 1MHz										
.77273	20.98 ave	10.5	0	31.48	56	46	-	-	-	-
			Margin [dB]:		-24.52	-14.52	-	-	-	-
.84166	20.29 ave	10.5	0	30.79	56	46	-	-	-	-
			Margin [dB]:		-25.21	-15.21	-	-	-	-
.96148	16.68 ave	10.4	0	27.08	56	46	-	-	-	-
			Margin [dB]:		-28.92	-18.92	-	-	-	-
Neutral 1 - 30MHz										
1.52375	21.21 ave	10.4	0	31.61	56	46	-	-	-	-
			Margin [dB]:		-24.39	-14.39	-	-	-	-

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

- pk - Peak detector
- qp - Quasi-Peak detector
- av - Average detector
- avlg - denotes average log detection
- ave - denotes average detection

- LIMIT 1: FCC Part 15 Subpart C QPk
- LIMIT 2: FCC Part 15 Subpart C Avg
- LIMIT 3: NONE
- LIMIT 4: NONE
- LIMIT 5: NONE
- LIMIT 6: NONE

**Figure 3 Conducted Emissions Graph**



**Table 4 Conducted Emissions Data Points**

Lutron Electronics  
 Model: RRD-6ND  
 Light Dimmer Xmit - 437MHz  
 Job#: 1001149948  
 Tested by: MA

Test No.	Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====											
Line - L1 .15 - 1MHz -----											
1	.15782	36.62 pk	12.1	0	48.72	65.6	55.6	-	-	-	-
				Margin [dB]		-16.88	-6.88	-	-	-	-
2	.18452	38.24 pk	11.6	0	49.84	64.3	54.3	-	-	-	-
				Margin [dB]		-14.46	-4.46	-	-	-	-
3	.21852	37.01 pk	11.3	0	48.31	62.9	52.9	-	-	-	-
				Margin [dB]		-14.59	-4.59	-	-	-	-
4	.28603	37.03 pk	10.9	0	47.93	60.6	50.6	-	-	-	-
				Margin [dB]		-12.67	-2.67	-	-	-	-
5	.33177	38.36 pk	10.8	0	49.16	59.4	49.4	-	-	-	-
				Margin [dB]		-10.24	-.24	-	-	-	-
6	.3974	37.33 pk	10.7	0	48.03	57.9	47.9	-	-	-	-
				Margin [dB]		-9.87	.13	-	-	-	-
7	.46269	37.34 pk	10.6	0	47.94	56.6	46.6	-	-	-	-
				Margin [dB]		-8.66	1.34	-	-	-	-
8	.51795	37.65 pk	10.5	0	48.15	56	46	-	-	-	-
				Margin [dB]		-7.85	2.15	-	-	-	-
9	.59005	36.63 pk	10.5	0	47.13	56	46	-	-	-	-
				Margin [dB]		-8.87	1.13	-	-	-	-
10	.68833	34.87 pk	10.5	0	45.37	56	46	-	-	-	-
				Margin [dB]		-10.63	-.63	-	-	-	-
11	.77437	35.66 pk	10.5	0	46.16	56	46	-	-	-	-
				Margin [dB]		-9.84	.16	-	-	-	-
12	.8621	32.3 pk	10.4	0	42.7	56	46	-	-	-	-
				Margin [dB]		-13.3	-3.3	-	-	-	-
13	.92502	31.97 pk	10.4	0	42.37	56	46	-	-	-	-
				Margin [dB]		-13.63	-3.63	-	-	-	-
14	.96633	29.99 pk	10.4	0	40.39	56	46	-	-	-	-
				Margin [dB]		-15.61	-5.61	-	-	-	-
-----											
Line - L1 1 - 30MHz -----											
15	1.52791	27.91 pk	10.3	0	38.21	56	46	-	-	-	-
				Margin [dB]		-17.79	-7.79	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C QPk  
 LIMIT 2: FCC Part 15 Subpart C Avg  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - denotes average log detection

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
Neutral .15 - 1MHz -----											
16	.15255	38.7 pk	12.1	0	50.8	65.9	55.9	-	-	-	-
					Margin [dB]	-15.1	-5.1	-	-	-	-
17	.17687	38.19 pk	11.8	0	49.99	64.6	54.6	-	-	-	-
					Margin [dB]	-14.61	-4.61	-	-	-	-
18	.21087	37.93 pk	11.4	0	49.33	63.2	53.2	-	-	-	-
					Margin [dB]	-13.87	-3.87	-	-	-	-
19	.24947	38.7 pk	11.1	0	49.8	61.8	51.8	-	-	-	-
					Margin [dB]	-12	-2	-	-	-	-
20	.27379	38.6 pk	11	0	49.6	61	51	-	-	-	-
					Margin [dB]	-11.4	-1.4	-	-	-	-
21	.33262	39.05 pk	10.8	0	49.85	59.4	49.4	-	-	-	-
					Margin [dB]	-9.55	.45	-	-	-	-
22	.37632	38.87 pk	10.7	0	49.57	58.4	48.4	-	-	-	-
					Margin [dB]	-8.83	1.17	-	-	-	-
23	.42461	37.53 pk	10.7	0	48.23	57.4	47.4	-	-	-	-
					Margin [dB]	-9.17	.83	-	-	-	-
24	.49075	38.06 pk	10.6	0	48.66	56.2	46.2	-	-	-	-
					Margin [dB]	-7.54	2.46	-	-	-	-
25	.55621	37.09 pk	10.5	0	47.59	56	46	-	-	-	-
					Margin [dB]	-8.41	1.59	-	-	-	-
26	.6278	37.32 pk	10.5	0	47.82	56	46	-	-	-	-
					Margin [dB]	-8.18	1.82	-	-	-	-
27	.67252	36.58 pk	10.5	0	47.08	56	46	-	-	-	-
					Margin [dB]	-8.92	1.08	-	-	-	-
28	.75345	33.85 pk	10.5	0	44.35	56	46	-	-	-	-
					Margin [dB]	-11.65	-1.65	-	-	-	-
29	.85054	34.6 pk	10.5	0	45.1	56	46	-	-	-	-
					Margin [dB]	-10.9	-.9	-	-	-	-
30	.97586	30.45 pk	10.4	0	40.85	56	46	-	-	-	-
					Margin [dB]	-15.15	-5.15	-	-	-	-
Neutral 1 - 30MHz -----											
31	1.46409	30.46 pk	10.4	0	40.86	56	46	-	-	-	-
					Margin [dB]	-15.14	-5.14	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C QPk  
 LIMIT 2: FCC Part 15 Subpart C Avg  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - denotes average log detection



Lutron Electronics  
 Model: RRD-6ND  
 Light Dimmer Xmit - 437MHz  
 Job#: 1001149948  
 Tested by: MA

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====										
Line - L1 .15 - 1MHz										
.15617	28.89 ave	12.1	0	40.99	65.7	55.7	-	-	-	-
			Margin [dB]:		-24.71	-14.71	-	-	-	-
.18438	26.29 ave	11.6	0	37.89	64.3	54.3	-	-	-	-
			Margin [dB]:		-26.41	-16.41	-	-	-	-
.21788	26.81 ave	11.3	0	38.11	62.9	52.9	-	-	-	-
			Margin [dB]:		-24.79	-14.79	-	-	-	-
.28756	27.45 ave	10.9	0	38.35	60.6	50.6	-	-	-	-
			Margin [dB]:		-22.25	-12.25	-	-	-	-
.3315	27.12 ave	10.8	0	37.92	59.4	49.4	-	-	-	-
			Margin [dB]:		-21.48	-11.48	-	-	-	-
.3982	27.02 ave	10.7	0	37.72	57.9	47.9	-	-	-	-
			Margin [dB]:		-20.18	-10.18	-	-	-	-
.46226	26.58 ave	10.6	0	37.18	56.7	46.7	-	-	-	-
			Margin [dB]:		-19.52	-9.52	-	-	-	-
.51774	26.13 ave	10.5	0	36.63	56	46	-	-	-	-
			Margin [dB]:		-19.37	-9.37	-	-	-	-
.58985	24.53 ave	10.5	0	35.03	56	46	-	-	-	-
			Margin [dB]:		-20.97	-10.97	-	-	-	-
.68812	22.37 ave	10.5	0	32.87	56	46	-	-	-	-
			Margin [dB]:		-23.13	-13.13	-	-	-	-
.77383	19.9 ave	10.5	0	30.4	56	46	-	-	-	-
			Margin [dB]:		-25.6	-15.6	-	-	-	-
.86174	18.77 ave	10.4	0	29.17	56	46	-	-	-	-
			Margin [dB]:		-26.83	-16.83	-	-	-	-
.92502	17.68 ave	10.4	0	28.08	56	46	-	-	-	-
			Margin [dB]:		-27.92	-17.92	-	-	-	-
.96605	15.63 ave	10.4	0	26.03	56	46	-	-	-	-
			Margin [dB]:		-29.97	-19.97	-	-	-	-
Line - L1 1 - 30MHz										
1.51237	20.01 ave	10.3	0	30.31	56	46	-	-	-	-
			Margin [dB]:		-25.69	-15.69	-	-	-	-

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - denotes average log detection  
 ave - denotes average detection

LIMIT 1: FCC Part 15 Subpart C QPk  
 LIMIT 2: FCC Part 15 Subpart C Avg  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

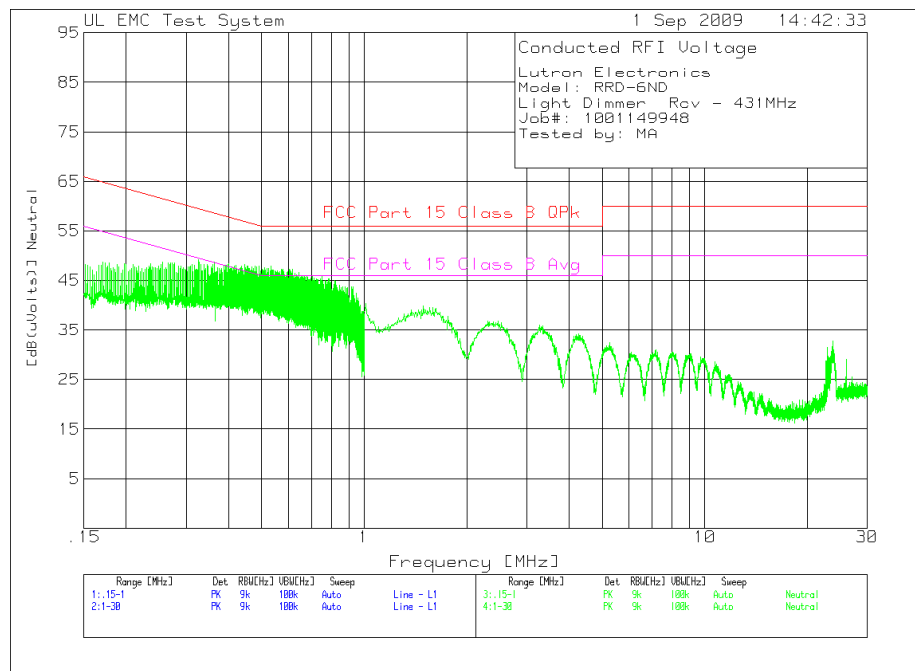
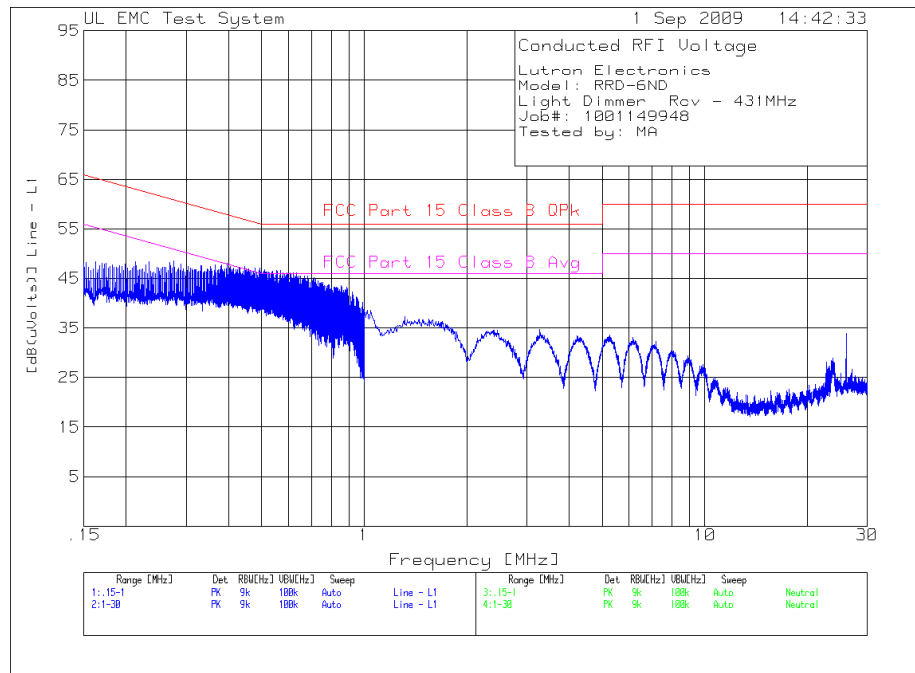
Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
Neutral .15 - 1MHz										
.15388	29.48 ave	12.1	0	41.58	65.8	55.8	-	-	-	-
				Margin [dB]:	-24.22	-14.22	-	-	-	-
.17627	27.29 ave	11.8	0	39.09	64.7	54.7	-	-	-	-
				Margin [dB]:	-25.61	-15.61	-	-	-	-
.2115	27.51 ave	11.4	0	38.91	63.1	53.1	-	-	-	-
				Margin [dB]:	-24.19	-14.19	-	-	-	-
.25043	27.88 ave	11.1	0	38.98	61.7	51.7	-	-	-	-
				Margin [dB]:	-22.72	-12.72	-	-	-	-
.27281	28.37 ave	11	0	39.37	61	51	-	-	-	-
				Margin [dB]:	-21.63	-11.63	-	-	-	-
.33228	26.97 ave	10.8	0	37.77	59.4	49.4	-	-	-	-
				Margin [dB]:	-21.63	-11.63	-	-	-	-
.3766	26.73 ave	10.7	0	37.43	58.4	48.4	-	-	-	-
				Margin [dB]:	-20.97	-10.97	-	-	-	-
.42453	26.18 ave	10.7	0	36.88	57.4	47.4	-	-	-	-
				Margin [dB]:	-20.52	-10.52	-	-	-	-
.4903	26.04 ave	10.6	0	36.64	56.2	46.2	-	-	-	-
				Margin [dB]:	-19.56	-9.56	-	-	-	-
.55506	26.07 ave	10.5	0	36.57	56	46	-	-	-	-
				Margin [dB]:	-19.43	-9.43	-	-	-	-
.62847	23.97 ave	10.5	0	34.47	56	46	-	-	-	-
				Margin [dB]:	-21.53	-11.53	-	-	-	-
.67149	24.08 ave	10.5	0	34.58	56	46	-	-	-	-
				Margin [dB]:	-21.42	-11.42	-	-	-	-
.75334	21.64 ave	10.5	0	32.14	56	46	-	-	-	-
				Margin [dB]:	-23.86	-13.86	-	-	-	-
.85011	21.21 ave	10.5	0	31.71	56	46	-	-	-	-
				Margin [dB]:	-24.29	-14.29	-	-	-	-
.97525	15.91 ave	10.4	0	26.31	56	46	-	-	-	-
				Margin [dB]:	-29.69	-19.69	-	-	-	-
Neutral 1 - 30MHz										
1.442	22.76 ave	10.4	0	33.16	56	46	-	-	-	-
				Margin [dB]:	-22.84	-12.84	-	-	-	-

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

- pk - Peak detector
- qp - Quasi-Peak detector
- av - Average detector
- avlg - denotes average log detection
- ave - denotes average detection

- LIMIT 1: FCC Part 15 Subpart C QPk
- LIMIT 2: FCC Part 15 Subpart C Avg
- LIMIT 3: NONE
- LIMIT 4: NONE
- LIMIT 5: NONE
- LIMIT 6: NONE

**Figure 4 Conducted Emissions Graph**



**Table 5 Conducted Emissions Data Points**

Lutron Electronics  
 Model: RRD-6ND  
 Light Dimmer Rcv - 431MHz  
 Job#: 1001149948  
 Tested by: MA

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====											
Line - L1	.15	-	1MHz	-----							
1	.21325	36.97 pk	11.4	0	48.37	63.1	53.1	-	-	-	-
				Margin [dB]		-14.73	-4.73	-	-	-	-
2	.23638	35.27 pk	11.2	0	46.47	62.2	52.2	-	-	-	-
				Margin [dB]		-15.73	-5.73	-	-	-	-
3	.27515	37.48 pk	11	0	48.48	61	51	-	-	-	-
				Margin [dB]		-12.52	-2.52	-	-	-	-
4	.32122	36.02 pk	10.8	0	46.82	59.7	49.7	-	-	-	-
				Margin [dB]		-12.88	-2.88	-	-	-	-
5	.36254	35.85 pk	10.7	0	46.55	58.7	48.7	-	-	-	-
				Margin [dB]		-12.15	-2.15	-	-	-	-
6	.39655	37.42 pk	10.7	0	48.12	57.9	47.9	-	-	-	-
				Margin [dB]		-9.78	.22	-	-	-	-
7	.4564	36.28 pk	10.6	0	46.88	56.8	46.8	-	-	-	-
				Margin [dB]		-9.92	.08	-	-	-	-
8	.52272	35.78 pk	10.5	0	46.28	56	46	-	-	-	-
				Margin [dB]		-9.72	.28	-	-	-	-
9	.60484	35.71 pk	10.5	0	46.21	56	46	-	-	-	-
				Margin [dB]		-9.79	.21	-	-	-	-
10	.69122	33.6 pk	10.5	0	44.1	56	46	-	-	-	-
				Margin [dB]		-11.9	-1.9	-	-	-	-
11	.79681	32.44 pk	10.4	0	42.84	56	46	-	-	-	-
				Margin [dB]		-13.16	-3.16	-	-	-	-
12	.89339	32.45 pk	10.4	0	42.85	56	46	-	-	-	-
				Margin [dB]		-13.15	-3.15	-	-	-	-
13	.99235	28.3 pk	10.4	0	38.7	56	46	-	-	-	-
				Margin [dB]		-17.3	-7.3	-	-	-	-
-----											
Neutral	.15	-	1MHz	-----							
14	.19744	36.86 pk	11.5	0	48.36	63.7	53.7	-	-	-	-
				Margin [dB]		-15.34	-5.34	-	-	-	-
15	.25576	37.53 pk	11.1	0	48.63	61.6	51.6	-	-	-	-
				Margin [dB]		-12.97	-2.97	-	-	-	-
16	.3117	37.33 pk	10.9	0	48.23	59.9	49.9	-	-	-	-
				Margin [dB]		-11.67	-1.67	-	-	-	-
17	.33772	37.49 pk	10.8	0	48.29	59.3	49.3	-	-	-	-
				Margin [dB]		-11.01	-1.01	-	-	-	-
-----											
LIMIT 1:	FCC Part 15 Class B QPk										
LIMIT 2:	FCC Part 15 Class B Avg										
LIMIT 3:	NONE										
LIMIT 4:	NONE										
LIMIT 5:	NONE										
LIMIT 6:	NONE										

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - denotes average log detection

Job Number: 1001149948 File Number: MC15896 Page 29 of 102  
 Model Number: RRD-6ND  
 Client Name: LUTRON ELECTRONICS INC  
 FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
Neutral .15 - 1MHz -----											
18	.39349	37.39 pk	10.7	0	48.09	58	48	-	-	-	-
				Margin [dB]		-9.91	.09	-	-	-	-
19	.44484	37.58 pk	10.6	0	48.18	57	47	-	-	-	-
				Margin [dB]		-8.82	1.18	-	-	-	-
20	.50129	36.71 pk	10.6	0	47.31	56	46	-	-	-	-
				Margin [dB]		-8.69	1.31	-	-	-	-
21	.55723	36.14 pk	10.5	0	46.64	56	46	-	-	-	-
				Margin [dB]		-9.36	.64	-	-	-	-
22	.60467	36.59 pk	10.5	0	47.09	56	46	-	-	-	-
				Margin [dB]		-8.91	1.09	-	-	-	-
23	.70499	35.48 pk	10.5	0	45.98	56	46	-	-	-	-
				Margin [dB]		-10.02	-.02	-	-	-	-
24	.75243	34.57 pk	10.5	0	45.07	56	46	-	-	-	-
				Margin [dB]		-10.93	-.93	-	-	-	-
25	.80327	32.74 pk	10.5	0	43.24	56	46	-	-	-	-
				Margin [dB]		-12.76	-2.76	-	-	-	-
26	.86839	32.37 pk	10.5	0	42.87	56	46	-	-	-	-
				Margin [dB]		-13.13	-3.13	-	-	-	-
27	.92638	33.28 pk	10.5	0	43.78	56	46	-	-	-	-
				Margin [dB]		-12.22	-2.22	-	-	-	-
28	.96038	30.36 pk	10.4	0	40.76	56	46	-	-	-	-
				Margin [dB]		-15.24	-5.24	-	-	-	-

LIMIT 1: FCC Part 15 Class B QPk  
 LIMIT 2: FCC Part 15 Class B Avg  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - denotes average log detection

Lutron Electronics  
 Model: RRD-6ND  
 Light Dimmer Rcv - 431MHz  
 Job#: 1001149948  
 Tested by: MA

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====										
Line - L1 .15 - 1MHz										
.2124	26.85 ave	11.4	0	38.25	63.1	53.1	-	-	-	-
			Margin [dB]:		-24.85	-14.85	-	-	-	-
.23677	26.82 ave	11.2	0	38.02	62.2	52.2	-	-	-	-
			Margin [dB]:		-24.18	-14.18	-	-	-	-
.274	27.22 ave	11	0	38.22	61	51	-	-	-	-
			Margin [dB]:		-22.78	-12.78	-	-	-	-
.32149	26.73 ave	10.8	0	37.53	59.7	49.7	-	-	-	-
			Margin [dB]:		-22.17	-12.17	-	-	-	-
.36187	26.54 ave	10.7	0	37.24	58.7	48.7	-	-	-	-
			Margin [dB]:		-21.46	-11.46	-	-	-	-
.39802	26.72 ave	10.7	0	37.42	57.9	47.9	-	-	-	-
			Margin [dB]:		-20.48	-10.48	-	-	-	-
.45648	25.88 ave	10.6	0	36.48	56.8	46.8	-	-	-	-
			Margin [dB]:		-20.32	-10.32	-	-	-	-
.52147	25.32 ave	10.5	0	35.82	56	46	-	-	-	-
			Margin [dB]:		-20.18	-10.18	-	-	-	-
.6047	24.13 ave	10.5	0	34.63	56	46	-	-	-	-
			Margin [dB]:		-21.37	-11.37	-	-	-	-
.69172	22.5 ave	10.5	0	33	56	46	-	-	-	-
			Margin [dB]:		-23	-13	-	-	-	-
.79643	19.9 ave	10.4	0	30.3	56	46	-	-	-	-
			Margin [dB]:		-25.7	-15.7	-	-	-	-
.89358	19.57 ave	10.4	0	29.97	56	46	-	-	-	-
			Margin [dB]:		-26.03	-16.03	-	-	-	-
.99188	13.48 ave	10.4	0	23.88	56	46	-	-	-	-
			Margin [dB]:		-32.12	-22.12	-	-	-	-

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - denotes average log detection  
 ave - denotes average detection

LIMIT 1: FCC Part 15 Class B QPk  
 LIMIT 2: FCC Part 15 Class B Avg  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

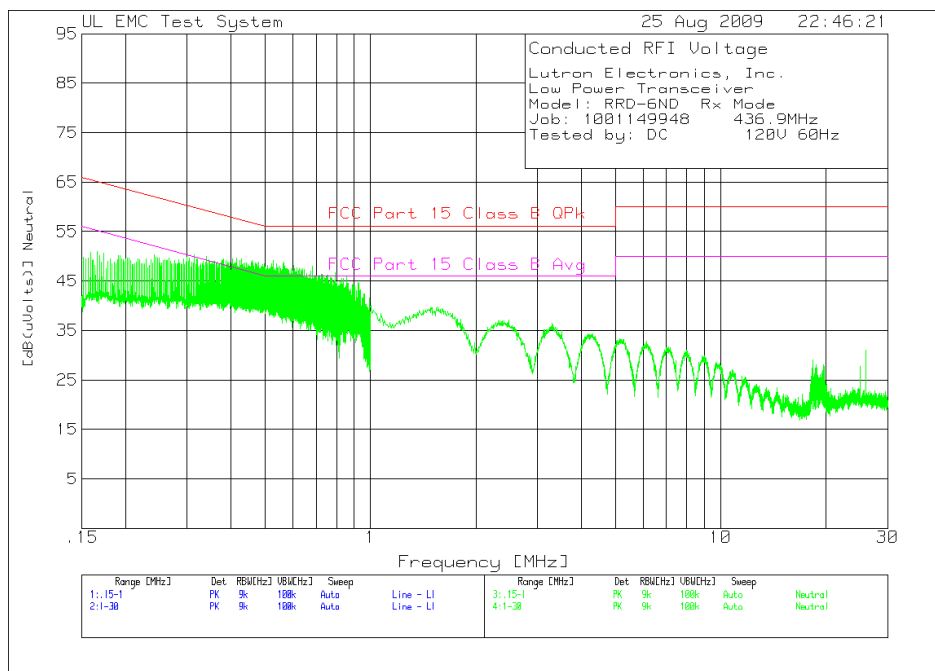
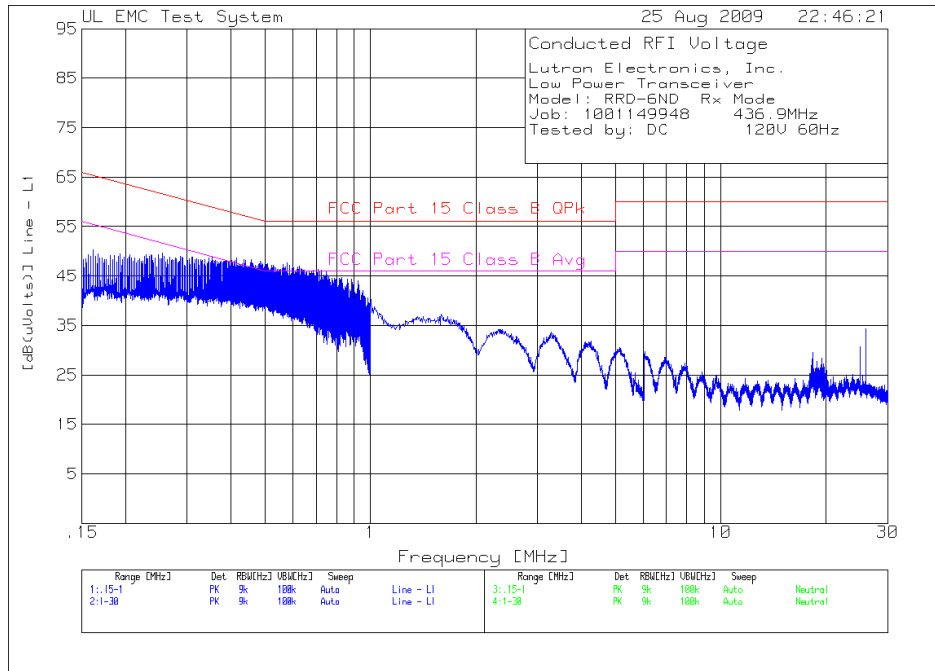
Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
Neutral .15 - 1MHz										
.1968	26.28 ave	11.5	0	37.78	63.7	53.7	-	-	-	-
			Margin [dB]:		-25.92	-15.92	-	-	-	-
.25494	27.16 ave	11.1	0	38.26	61.6	51.6	-	-	-	-
			Margin [dB]:		-23.34	-13.34	-	-	-	-
.31096	26.66 ave	10.9	0	37.56	59.9	49.9	-	-	-	-
			Margin [dB]:		-22.34	-12.34	-	-	-	-
.33755	26.3 ave	10.8	0	37.1	59.3	49.3	-	-	-	-
			Margin [dB]:		-22.2	-12.2	-	-	-	-
.39313	25.74 ave	10.7	0	36.44	58	48	-	-	-	-
			Margin [dB]:		-21.56	-11.56	-	-	-	-
.44502	26.26 ave	10.6	0	36.86	57	47	-	-	-	-
			Margin [dB]:		-20.14	-10.14	-	-	-	-
.50137	26.15 ave	10.6	0	36.75	56	46	-	-	-	-
			Margin [dB]:		-19.25	-9.25	-	-	-	-
.55638	25.01 ave	10.5	0	35.51	56	46	-	-	-	-
			Margin [dB]:		-20.49	-10.49	-	-	-	-
.60535	24.65 ave	10.5	0	35.15	56	46	-	-	-	-
			Margin [dB]:		-20.85	-10.85	-	-	-	-
.70588	22 ave	10.5	0	32.5	56	46	-	-	-	-
			Margin [dB]:		-23.5	-13.5	-	-	-	-
.75236	21.52 ave	10.5	0	32.02	56	46	-	-	-	-
			Margin [dB]:		-23.98	-13.98	-	-	-	-
.80234	20.32 ave	10.5	0	30.82	56	46	-	-	-	-
			Margin [dB]:		-25.18	-15.18	-	-	-	-
.86787	20.41 ave	10.5	0	30.91	56	46	-	-	-	-
			Margin [dB]:		-25.09	-15.09	-	-	-	-
.92604	20.12 ave	10.5	0	30.62	56	46	-	-	-	-
			Margin [dB]:		-25.38	-15.38	-	-	-	-
.96021	17.01 ave	10.4	0	27.41	56	46	-	-	-	-
			Margin [dB]:		-28.59	-18.59	-	-	-	-

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - denotes average log detection  
 ave - denotes average detection

LIMIT 1: FCC Part 15 Class B QPk  
 LIMIT 2: FCC Part 15 Class B Avg  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

**Figure 5 Conducted Emissions Graph**





**Table 6 Conducted Emissions Data Points**

Lutron Electronics, Inc.  
 Low Power Transceiver  
 Model: RRD-6ND Rx Mode  
 Job: 1001149948 436.9MHz  
 Tested by: DC 120V 60Hz

Test No.	Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6		
=====													
Line - L1	.15	-	1MHz	-----									
1	.16156	38.38 pk	12	0	50.38	65.4	55.4	-	-	-	-		
				Margin [dB]		-15.02	-5.02	-	-	-	-		
2	.18571	37.61 pk	11.6	0	49.21	64.2	54.2	-	-	-	-		
				Margin [dB]		-14.99	-4.99	-	-	-	-		
3	.21257	37.24 pk	11.4	0	48.64	63.1	53.1	-	-	-	-		
				Margin [dB]		-14.46	-4.46	-	-	-	-		
4	.23587	38.12 pk	11.2	0	49.32	62.2	52.2	-	-	-	-		
				Margin [dB]		-12.88	-2.88	-	-	-	-		
5	.26749	37.83 pk	11	0	48.83	61.2	51.2	-	-	-	-		
				Margin [dB]		-12.37	-2.37	-	-	-	-		
6	.28926	38 pk	10.9	0	48.9	60.5	50.5	-	-	-	-		
				Margin [dB]		-11.6	-1.6	-	-	-	-		
7	.30864	37.87 pk	10.9	0	48.77	60	50	-	-	-	-		
				Margin [dB]		-11.23	-1.23	-	-	-	-		
8	.33177	37.37 pk	10.8	0	48.17	59.4	49.4	-	-	-	-		
				Margin [dB]		-11.23	-1.23	-	-	-	-		
9	.34656	37.89 pk	10.8	0	48.69	59	49	-	-	-	-		
				Margin [dB]		-10.31	-.31	-	-	-	-		
10	.37547	37.3 pk	10.7	0	48	58.4	48.4	-	-	-	-		
				Margin [dB]		-10.4	-.4	-	-	-	-		
11	.38754	37.32 pk	10.7	0	48.02	58.1	48.1	-	-	-	-		
				Margin [dB]		-10.08	-.08	-	-	-	-		
12	.40879	37.16 pk	10.7	0	47.86	57.7	47.7	-	-	-	-		
				Margin [dB]		-9.84	.16	-	-	-	-		
13	.4258	36.66 pk	10.6	0	47.26	57.3	47.3	-	-	-	-		
				Margin [dB]		-10.04	-.04	-	-	-	-		
14	.43549	37.79 pk	10.6	0	48.39	57.1	47.1	-	-	-	-		
				Margin [dB]		-8.71	1.29	-	-	-	-		
15	.45725	37.75 pk	10.6	0	48.35	56.7	46.7	-	-	-	-		
				Margin [dB]		-8.35	1.65	-	-	-	-		
16	.48395	37.48 pk	10.6	0	48.08	56.3	46.3	-	-	-	-		
				Margin [dB]		-8.22	1.78	-	-	-	-		
17	.50316	36.8 pk	10.6	0	47.4	56	46	-	-	-	-		
				Margin [dB]		-8.6	1.4	-	-	-	-		
18	.52255	36.63 pk	10.5	0	47.13	56	46	-	-	-	-		
				Margin [dB]		-8.87	1.13	-	-	-	-		

LIMIT 1: FCC Part 15 Class B QPk  
 LIMIT 2: FCC Part 15 Class B Avg  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - denotes average log detection

Job Number: 1001149948 File Number: MC15896 Page 34 of 102  
Model Number: RRD-6ND  
Client Name: LUTRON ELECTRONICS INC  
FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

Line No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
-----											
19	.56369	36.8 pk	10.5	0	47.3	56	46	-	-	-	-
					Margin [dB]	-8.7	1.3	-	-	-	-
20	.60331	36.14 pk	10.5	0	46.64	56	46	-	-	-	-
					Margin [dB]	-9.36	.64	-	-	-	-
21	.66486	34.5 pk	10.5	0	45	56	46	-	-	-	-
					Margin [dB]	-11	-1	-	-	-	-
22	.7157	35.34 pk	10.5	0	45.84	56	46	-	-	-	-
					Margin [dB]	-10.16	-.16	-	-	-	-
23	.74631	35.36 pk	10.5	0	45.86	56	46	-	-	-	-
					Margin [dB]	-10.14	-.14	-	-	-	-
24	.82623	34.24 pk	10.4	0	44.64	56	46	-	-	-	-
					Margin [dB]	-11.36	-1.36	-	-	-	-
25	.8837	33.95 pk	10.4	0	44.35	56	46	-	-	-	-
					Margin [dB]	-11.65	-1.65	-	-	-	-
26	.92451	32.89 pk	10.4	0	43.29	56	46	-	-	-	-
					Margin [dB]	-12.71	-2.71	-	-	-	-
-----											
Neutral .15 - 1MHz -----											
27	.16598	39.12 pk	11.9	0	51.02	65.2	55.2	-	-	-	-
					Margin [dB]	-14.18	-4.18	-	-	-	-
28	.19268	38.57 pk	11.6	0	50.17	63.9	53.9	-	-	-	-
					Margin [dB]	-13.73	-3.73	-	-	-	-
29	.21937	38.09 pk	11.3	0	49.39	62.8	52.8	-	-	-	-
					Margin [dB]	-13.41	-3.41	-	-	-	-
30	.24403	38.68 pk	11.2	0	49.88	62	52	-	-	-	-
					Margin [dB]	-12.12	-2.12	-	-	-	-
31	.28297	38.31 pk	11	0	49.31	60.7	50.7	-	-	-	-
					Margin [dB]	-11.39	-1.39	-	-	-	-
32	.34027	39.1 pk	10.8	0	49.9	59.2	49.2	-	-	-	-
					Margin [dB]	-9.3	.7	-	-	-	-
33	.38142	38.75 pk	10.7	0	49.45	58.2	48.2	-	-	-	-
					Margin [dB]	-8.75	1.25	-	-	-	-
34	.41474	39.01 pk	10.7	0	49.71	57.6	47.6	-	-	-	-
					Margin [dB]	-7.89	2.11	-	-	-	-
35	.43668	38.11 pk	10.6	0	48.71	57.1	47.1	-	-	-	-
					Margin [dB]	-8.39	1.61	-	-	-	-
36	.48752	37.48 pk	10.6	0	48.08	56.2	46.2	-	-	-	-
					Margin [dB]	-8.12	1.88	-	-	-	-
37	.51914	37.31 pk	10.6	0	47.91	56	46	-	-	-	-
					Margin [dB]	-8.09	1.91	-	-	-	-
38	.5506	37.47 pk	10.5	0	47.97	56	46	-	-	-	-
					Margin [dB]	-8.03	1.97	-	-	-	-
39	.56522	38.25 pk	10.5	0	48.75	56	46	-	-	-	-
					Margin [dB]	-7.25	2.75	-	-	-	-

LIMIT 1: FCC Part 15 Class B QPk  
 LIMIT 2: FCC Part 15 Class B Avg  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - denotes average log detection

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
-----											
Neutral .15 - 1MHz -----											
40	.6028	37.63 pk	10.5	0	48.13	56	46	-	-	-	-
				Margin [dB]		-7.87	2.13	-	-	-	-
41	.64157	37 pk	10.5	0	47.5	56	46	-	-	-	-
				Margin [dB]		-8.5	1.5	-	-	-	-
42	.68136	37.45 pk	10.5	0	47.95	56	46	-	-	-	-
				Margin [dB]		-8.05	1.95	-	-	-	-
43	.78865	34.57 pk	10.5	0	45.07	56	46	-	-	-	-
				Margin [dB]		-10.93	-.93	-	-	-	-
44	.86329	34.08 pk	10.5	0	44.58	56	46	-	-	-	-
				Margin [dB]		-11.42	-1.42	-	-	-	-
45	.92366	34.16 pk	10.5	0	44.66	56	46	-	-	-	-
				Margin [dB]		-11.34	-1.34	-	-	-	-
46	.95528	32.05 pk	10.4	0	42.45	56	46	-	-	-	-
				Margin [dB]		-13.55	-3.55	-	-	-	-

LIMIT 1: FCC Part 15 Class B QPk  
 LIMIT 2: FCC Part 15 Class B Avg  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - denotes average log detection

Job Number: 1001149948 File Number: MC15896 Page 37 of 102  
 Model Number: RRD-6ND  
 Client Name: LUTRON ELECTRONICS INC  
 FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

Lutron Electronics, Inc.  
 Low Power Transceiver  
 Model: RRD-6ND Rx Mode  
 Job: 1001149948 436.9MHz  
 Tested by: DC 120V 60Hz

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====										
Line - L1 .15 - 1MHz										
.16017	27.57 ave	12	0	39.57	65.5	55.5	-	-	-	-
			Margin [dB]:		-25.93	-15.93	-	-	-	-
.18595	27.48 ave	11.6	0	39.08	64.2	54.2	-	-	-	-
			Margin [dB]:		-25.12	-15.12	-	-	-	-
.21306	27.29 ave	11.4	0	38.69	63.1	53.1	-	-	-	-
			Margin [dB]:		-24.41	-14.41	-	-	-	-
.23634	26.53 ave	11.2	0	37.73	62.2	52.2	-	-	-	-
			Margin [dB]:		-24.47	-14.47	-	-	-	-
.2686	26.84 ave	11	0	37.84	61.2	51.2	-	-	-	-
			Margin [dB]:		-23.36	-13.36	-	-	-	-
.28865	27.58 ave	10.9	0	38.48	60.6	50.6	-	-	-	-
			Margin [dB]:		-22.12	-12.12	-	-	-	-
.30882	26.9 ave	10.9	0	37.8	60	50	-	-	-	-
			Margin [dB]:		-22.2	-12.2	-	-	-	-
.33233	27.19 ave	10.8	0	37.99	59.4	49.4	-	-	-	-
			Margin [dB]:		-21.41	-11.41	-	-	-	-
.34647	27 ave	10.8	0	37.8	59	49	-	-	-	-
			Margin [dB]:		-21.2	-11.2	-	-	-	-
.37704	27.08 ave	10.7	0	37.78	58.3	48.3	-	-	-	-
			Margin [dB]:		-20.52	-10.52	-	-	-	-
.38862	26.28 ave	10.7	0	36.98	58.1	48.1	-	-	-	-
			Margin [dB]:		-21.12	-11.12	-	-	-	-
.40834	27.18 ave	10.7	0	37.88	57.7	47.7	-	-	-	-
			Margin [dB]:		-19.82	-9.82	-	-	-	-
.42525	26.61 ave	10.6	0	37.21	57.3	47.3	-	-	-	-
			Margin [dB]:		-20.09	-10.09	-	-	-	-
.43595	26.71 ave	10.6	0	37.31	57.1	47.1	-	-	-	-
			Margin [dB]:		-19.79	-9.79	-	-	-	-
.45802	26.09 ave	10.6	0	36.69	56.7	46.7	-	-	-	-
			Margin [dB]:		-20.01	-10.01	-	-	-	-
.48363	25.64 ave	10.6	0	36.24	56.3	46.3	-	-	-	-
			Margin [dB]:		-20.06	-10.06	-	-	-	-

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - denotes average log detection  
 ave - denotes average detection

LIMIT 1: FCC Part 15 Class B QPk  
 LIMIT 2: FCC Part 15 Class B Avg  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====										
Line - L1 .15 - 1MHz										
.50413	25.95 ave	10.6	0	36.55	56	46	-	-	-	-
			Margin [dB]:		-19.45	-9.45	-	-	-	-
.52284	25.87 ave	10.5	0	36.37	56	46	-	-	-	-
			Margin [dB]:		-19.63	-9.63	-	-	-	-
.56413	24.84 ave	10.5	0	35.34	56	46	-	-	-	-
			Margin [dB]:		-20.66	-10.66	-	-	-	-
.60367	24.29 ave	10.5	0	34.79	56	46	-	-	-	-
			Margin [dB]:		-21.21	-11.21	-	-	-	-
.66437	22.56 ave	10.5	0	33.06	56	46	-	-	-	-
			Margin [dB]:		-22.94	-12.94	-	-	-	-
.7157	22.11 ave	10.5	0	32.61	56	46	-	-	-	-
			Margin [dB]:		-23.39	-13.39	-	-	-	-
.74569	20.94 ave	10.5	0	31.44	56	46	-	-	-	-
			Margin [dB]:		-24.56	-14.56	-	-	-	-
.8266	20.28 ave	10.4	0	30.68	56	46	-	-	-	-
			Margin [dB]:		-25.32	-15.32	-	-	-	-
.88457	20.04 ave	10.4	0	30.44	56	46	-	-	-	-
			Margin [dB]:		-25.56	-15.56	-	-	-	-
.92479	20.26 ave	10.4	0	30.66	56	46	-	-	-	-
			Margin [dB]:		-25.34	-15.34	-	-	-	-
Neutral .15 - 1MHz										
.16691	26.26 ave	11.9	0	38.16	65.1	55.1	-	-	-	-
			Margin [dB]:		-26.94	-16.94	-	-	-	-
.19212	26.37 ave	11.6	0	37.97	63.9	53.9	-	-	-	-
			Margin [dB]:		-25.93	-15.93	-	-	-	-
.21949	26.76 ave	11.3	0	38.06	62.8	52.8	-	-	-	-
			Margin [dB]:		-24.74	-14.74	-	-	-	-
.24311	27.39 ave	11.2	0	38.59	62	52	-	-	-	-
			Margin [dB]:		-23.41	-13.41	-	-	-	-
.28336	27.1 ave	11	0	38.1	60.7	50.7	-	-	-	-
			Margin [dB]:		-22.6	-12.6	-	-	-	-
.34	26.95 ave	10.8	0	37.75	59.2	49.2	-	-	-	-
			Margin [dB]:		-21.45	-11.45	-	-	-	-
.38019	27.52 ave	10.7	0	38.22	58.3	48.3	-	-	-	-
			Margin [dB]:		-20.08	-10.08	-	-	-	-
.41539	26.23 ave	10.7	0	36.93	57.5	47.5	-	-	-	-
			Margin [dB]:		-20.57	-10.57	-	-	-	-

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - denotes average log detection  
 ave - denotes average detection

LIMIT 1: FCC Part 15 Class B QPk  
 LIMIT 2: FCC Part 15 Class B Avg  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====										
Neutral .15 - 1MHz										
.43662	26.81 ave	10.6	0	37.41	57.1	47.1	-	-	-	-
			Margin [dB]:		-19.69	-9.69	-	-	-	-
.48871	26.21 ave	10.6	0	36.81	56.2	46.2	-	-	-	-
			Margin [dB]:		-19.39	-9.39	-	-	-	-
.52072	26.01 ave	10.6	0	36.61	56	46	-	-	-	-
			Margin [dB]:		-19.39	-9.39	-	-	-	-
.55045	25.65 ave	10.5	0	36.15	56	46	-	-	-	-
			Margin [dB]:		-19.85	-9.85	-	-	-	-
.56543	25.45 ave	10.5	0	35.95	56	46	-	-	-	-
			Margin [dB]:		-20.05	-10.05	-	-	-	-
.60265	24.97 ave	10.5	0	35.47	56	46	-	-	-	-
			Margin [dB]:		-20.53	-10.53	-	-	-	-
.6417	24.37 ave	10.5	0	34.87	56	46	-	-	-	-
			Margin [dB]:		-21.13	-11.13	-	-	-	-
.68198	23.74 ave	10.5	0	34.24	56	46	-	-	-	-
			Margin [dB]:		-21.76	-11.76	-	-	-	-
.78829	21.65 ave	10.5	0	32.15	56	46	-	-	-	-
			Margin [dB]:		-23.85	-13.85	-	-	-	-
.86331	22.53 ave	10.5	0	33.03	56	46	-	-	-	-
			Margin [dB]:		-22.97	-12.97	-	-	-	-
.92389	21.28 ave	10.5	0	31.78	56	46	-	-	-	-
			Margin [dB]:		-24.22	-14.22	-	-	-	-
.95432	18.51 ave	10.4	0	28.91	56	46	-	-	-	-
			Margin [dB]:		-27.09	-17.09	-	-	-	-

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - denotes average log detection  
 ave - denotes average detection

LIMIT 1: FCC Part 15 Class B QPk  
 LIMIT 2: FCC Part 15 Class B Avg  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

**4.2 Test Conditions and Results – OCCUPIED BANDWIDTH**

Test Description	Measurements were made in the laboratory environment. A Dipole (or equivalent) antenna tuned to the transmit frequency was attached to the input of a spectrum analyzer. The device was operated and the spectrum analyzer resolution bandwidth set per the appropriate standard.
Basic Standard	FCC Part 15, Subpart C 15.231
<b>Occupied Bandwidth Limits</b>	
0.25% of Fo	

**Table 7 Occupied Bandwidth Configuration Settings**

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	3
1	1	4
Supplementary information: None		

**Table 8 Occupied Bandwidth Spectrum Analyzer Settings**

Resolution Bandwidth (kHz)	Occupied Bandwidth Requirements	
	dBc	%
10	-20	99
Supplementary information: None		

**Table 9 Occupied Bandwidth Test Equipment**

<b>Test Equipment Used</b>			
Description	Manufacturer	Model	Identifier
EMI Receiver	Rohde & Schwarz	ESIB26	ME5B-081
Dipole Antenna	EMCO	3121C	3359
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	43734
Multimeter	Fluke	87III	ME5B-218

**Table 10 Occupied Bandwidth Results**

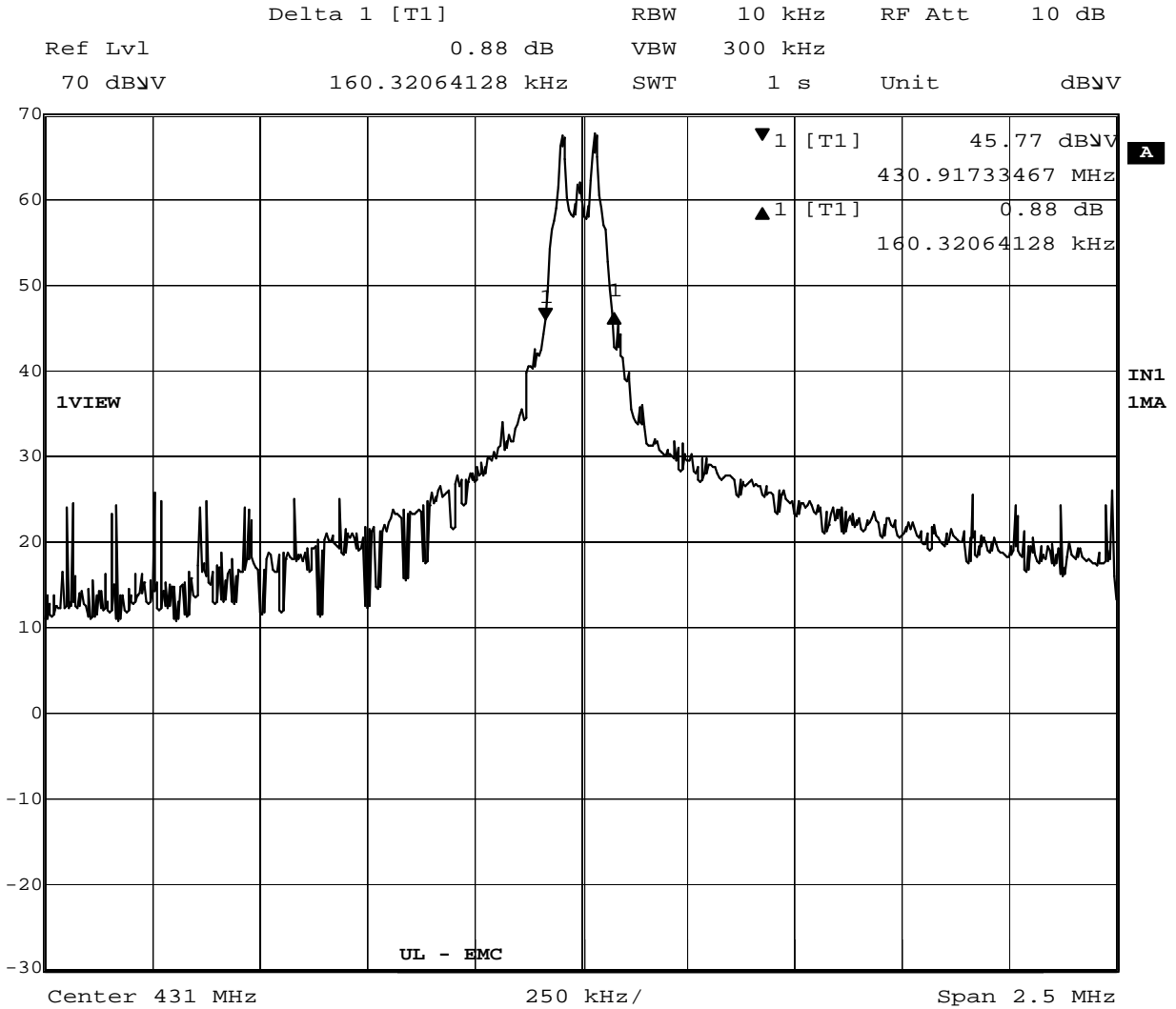
Frequency (MHz)	20dB OBW	99% OBW	Limit (MHz)	Result
431	160.3 kHz	150.3 kHz	1.08	Pass
437	160.3 kHz	155.3 kHz	1.09	Pass



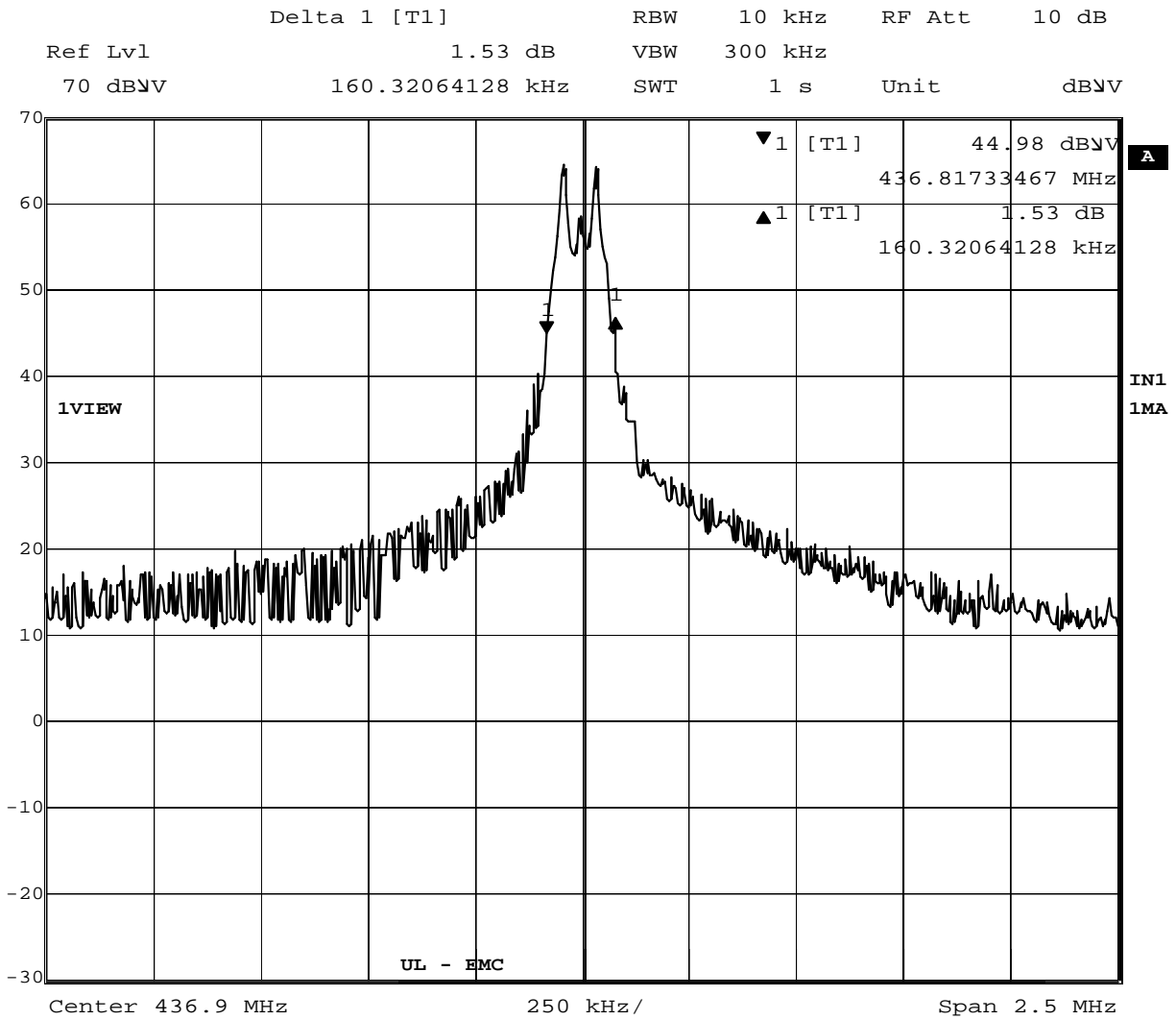
**Figure 6 Test Setup for Occupied Bandwidth**



Figure 7 Occupied Bandwidth Graph – 20dB

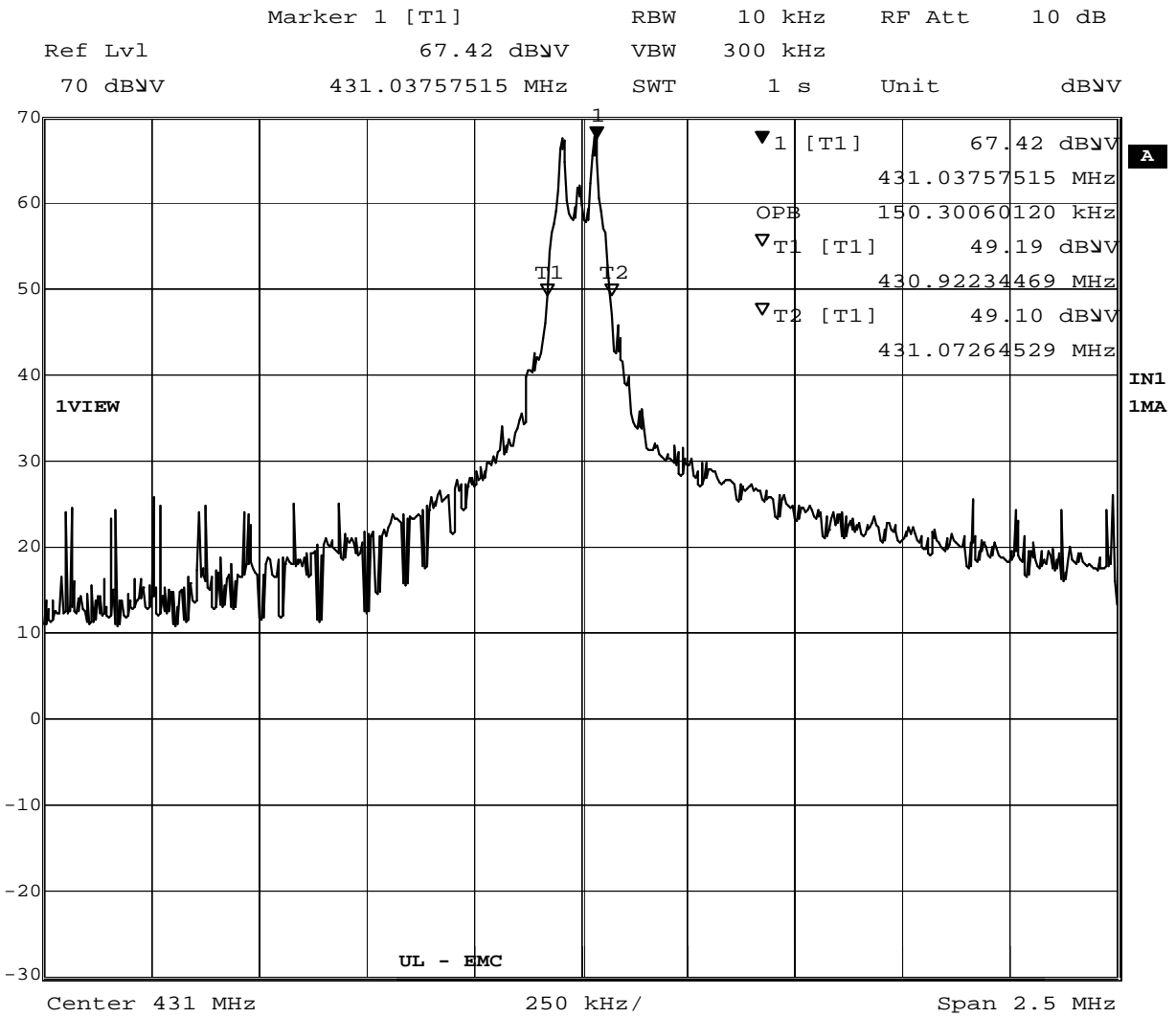


Date: 25.AUG.2009 14:03:59

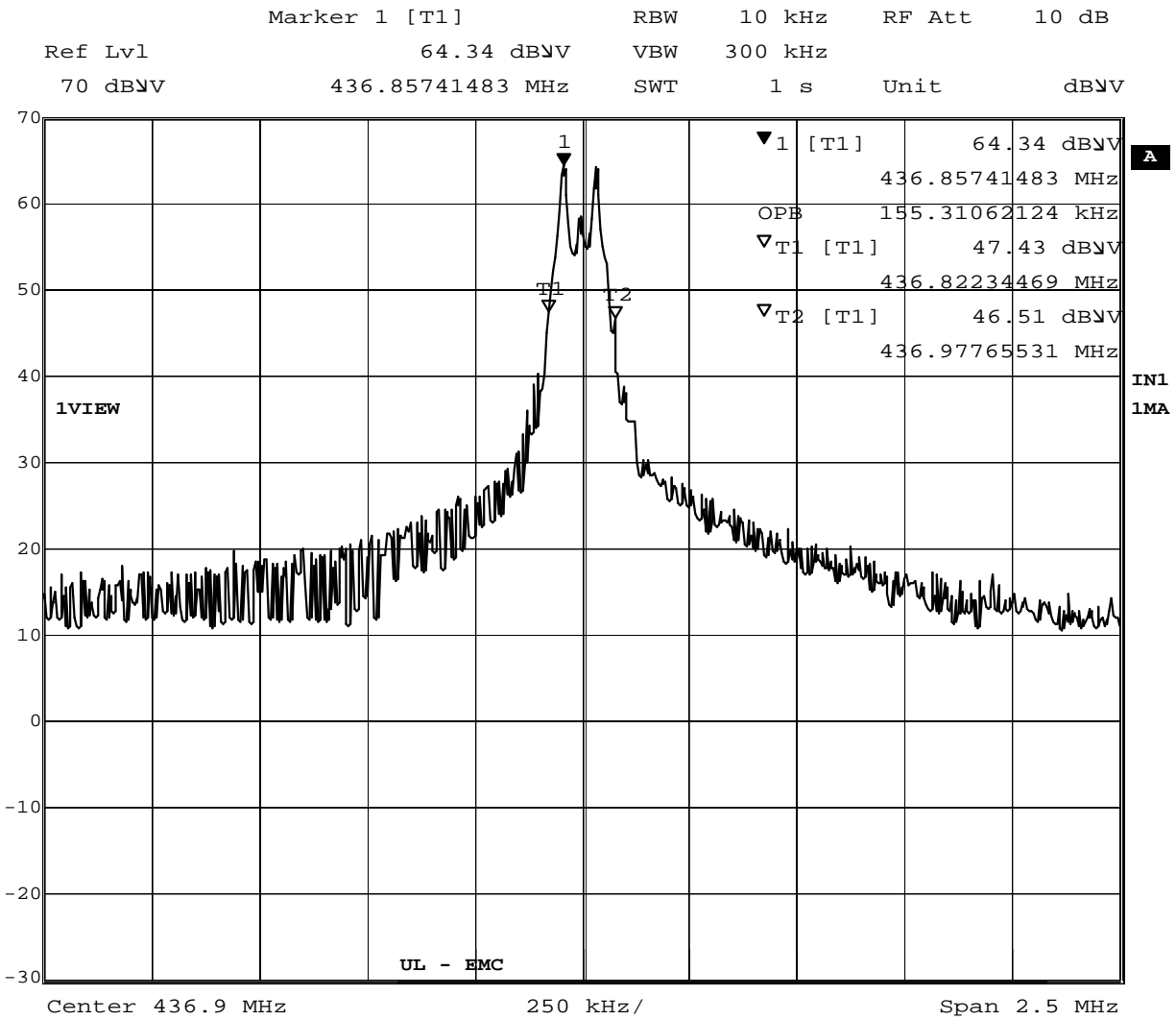


Date: 25.AUG.2009 14:07:04

**Figure 8 Occupied Bandwidth Graph -99% Power**



Date: 25.AUG.2009 14:00:48



Date: 25.AUG.2009 14:07:41

**4.3 Test Conditions and Results – CEASE OPERATION**

Test Description	Measurements were made in the laboratory environment. A Dipole (or equivalent) antenna tuned to the transmit frequency was attached to the input of a spectrum analyzer. The device was operated and the transmission time measured with the spectrum analyzer set to zero span at the fundamental frequency.
Basic Standard	FCC Part 15 Subpart C 15.231
<b>Cease Operation Limits</b>	
The transmissions shall stop within 5 seconds of either a button being released or if automatically controlled transmissions shall be stopped 5 seconds after transmissions begin.	

**Table 11 Cease Operation Configuration Settings**

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	3
Supplementary information: None		

**Table 12 Cease Operation Test Equipment**

<b>Test Equipment Used</b>			
Description	Manufacturer	Model	Identifier
EMI Receiver	Rohde & Schwarz	ESIB26	ME5B-081
Dipole Antenna	EMCO	3121C	3359
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Multimeter	Fluke	83V	44459

**Figure 9 Test Setup for Cease Operation**

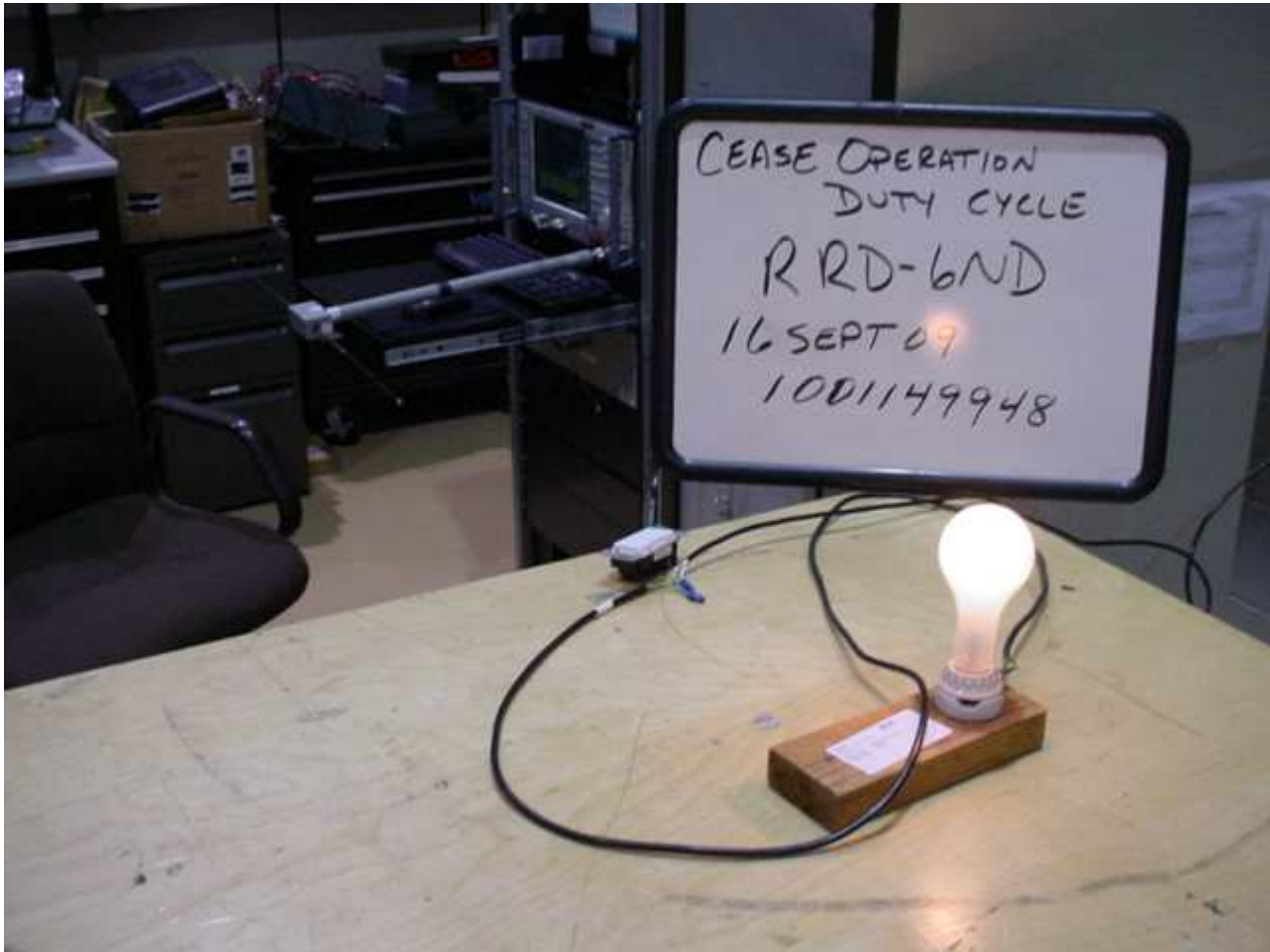
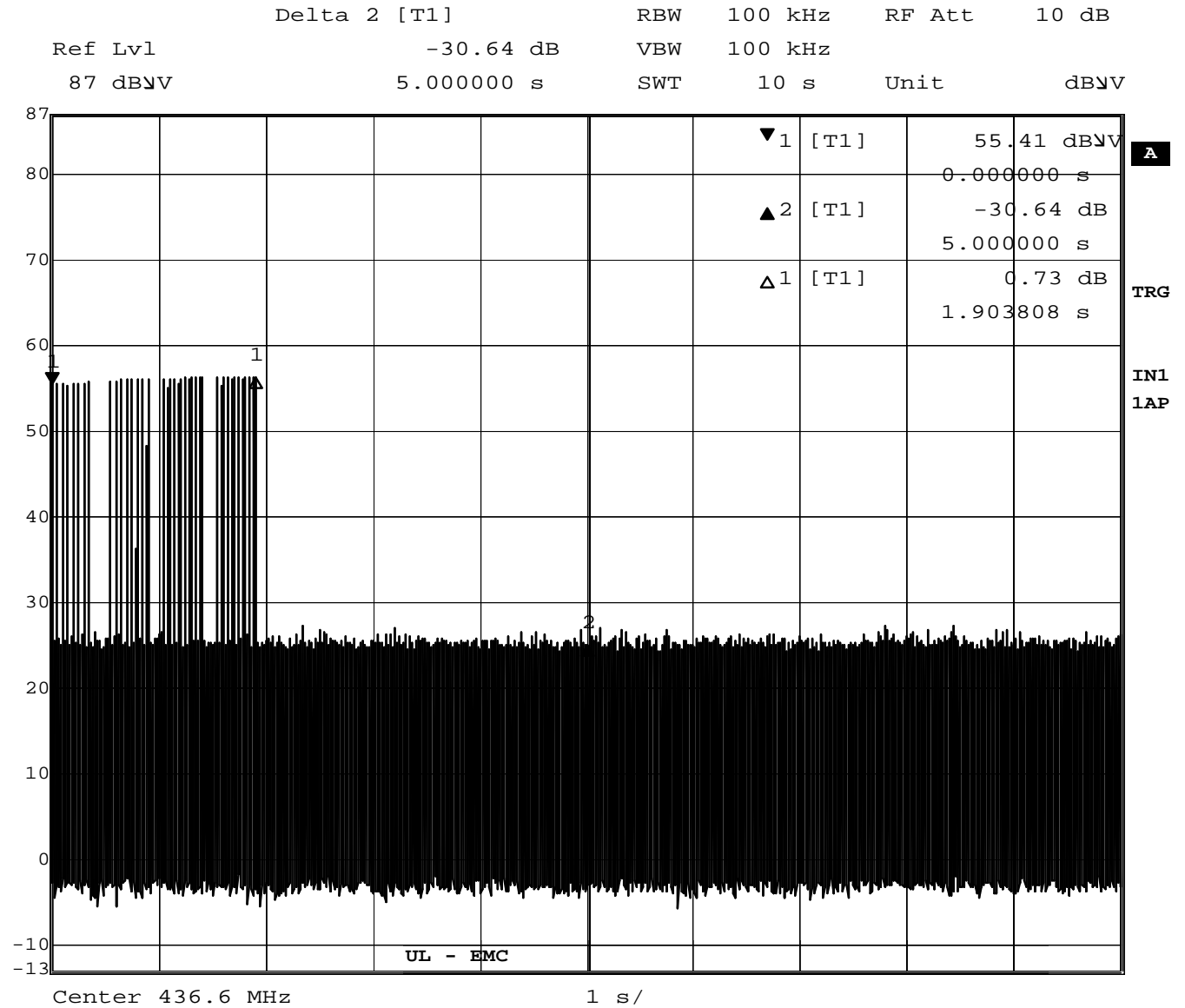


Figure 10 Cease Operation Graph



Date: 16.SEP.2009 09:36:18



**4.4 Test Conditions and Results – PULSE TRAIN (DUTY CYCLE CORRECTION FACTOR)**

Test Description	Measurements were made in the laboratory environment. A Dipole (or equivalent) antenna tuned to the transmit frequency was attached to the input of a spectrum analyzer. The pulse train was measured with the spectrum analyzer set to zero span at the fundamental frequency.
Basic Standard	FCC Part 15 Subpart A, 15.35
<b>Pulse Train Limits (Duty Cycle Correction Factor)</b>	
There are no limits for this test. This data is used to calculate the averaging correction factor that is applied to the measured peak radiated emissions results.	

**Table 13 Pulse Train Configuration Settings**

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	3
Supplementary information: None		

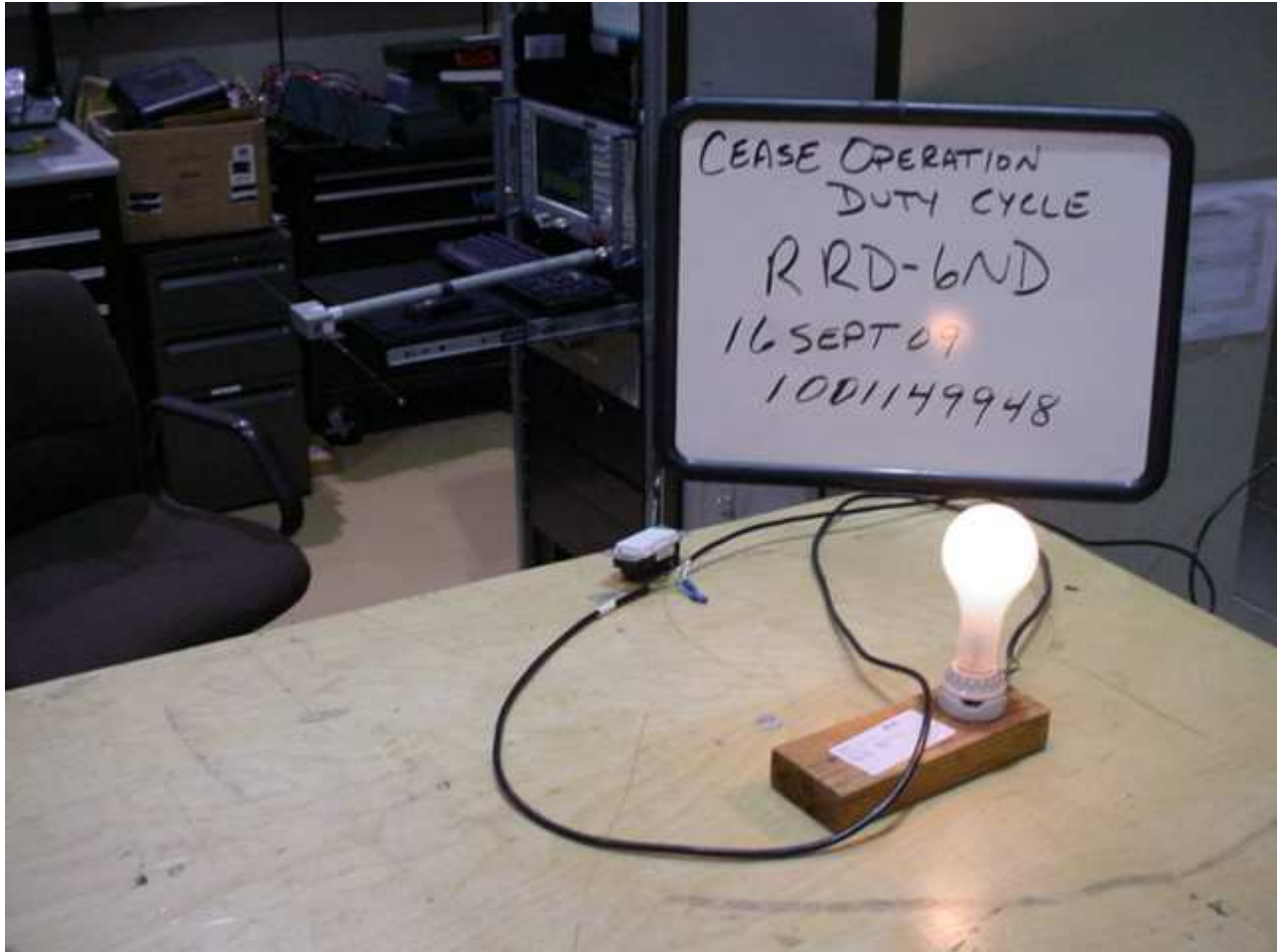
**Table 14 Pulse Train Calculation**

Pulse Width (mS)	Total Transmission time or 100ms which ever is lesser	Average Correction Factor (dB) $20 \log \left( \frac{PulseWidth}{TotalTransmissionTime} \right)$
9.6	100	-20.4

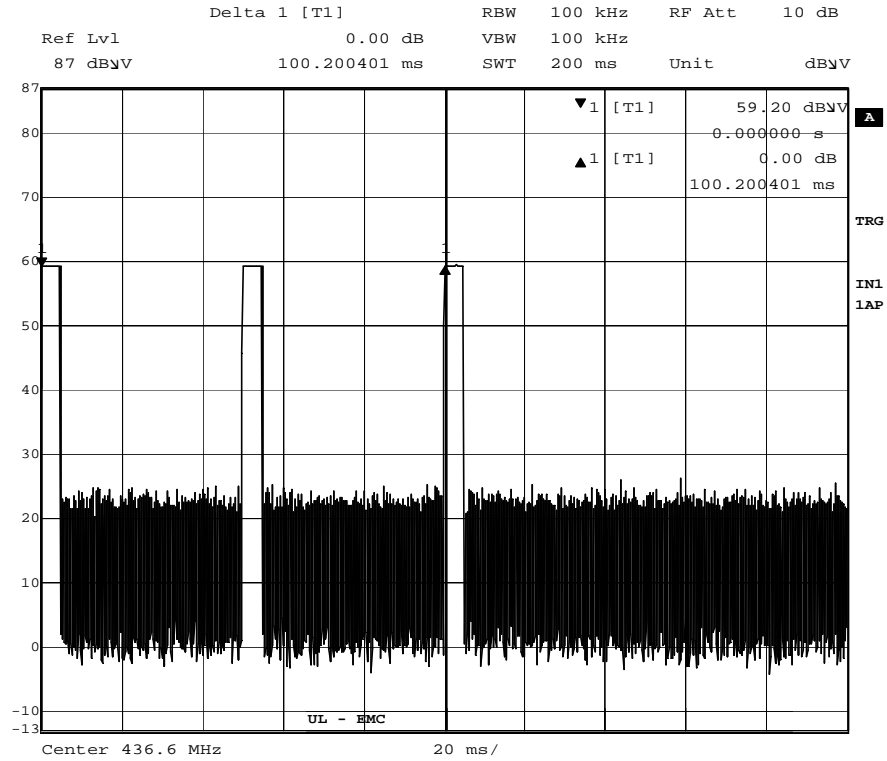
**Table 15 Pulse Train Test Equipment**

<b>Test Equipment Used</b>			
Description	Manufacturer	Model	Identifier
EMI Receiver	Rohde & Schwarz	ESIB26	ME5B-081
Dipole Antenna	EMCO	3121C	3359
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Multimeter	Fluke	83V	44459

Figure 11 Test Setup for Pulse Train

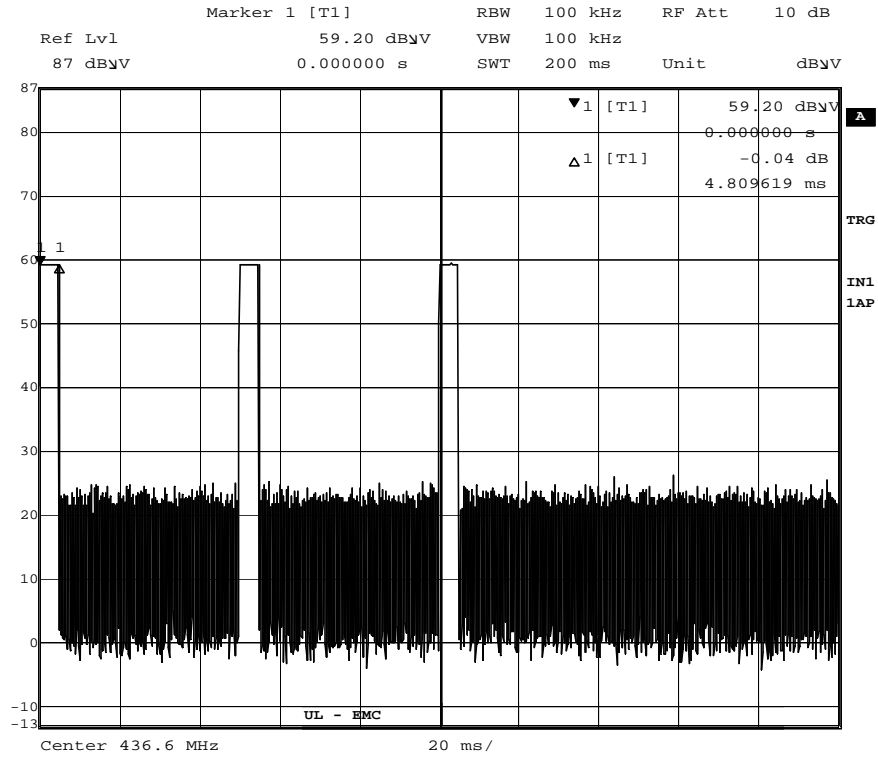


**Figure 12 Pulse Train Graph**



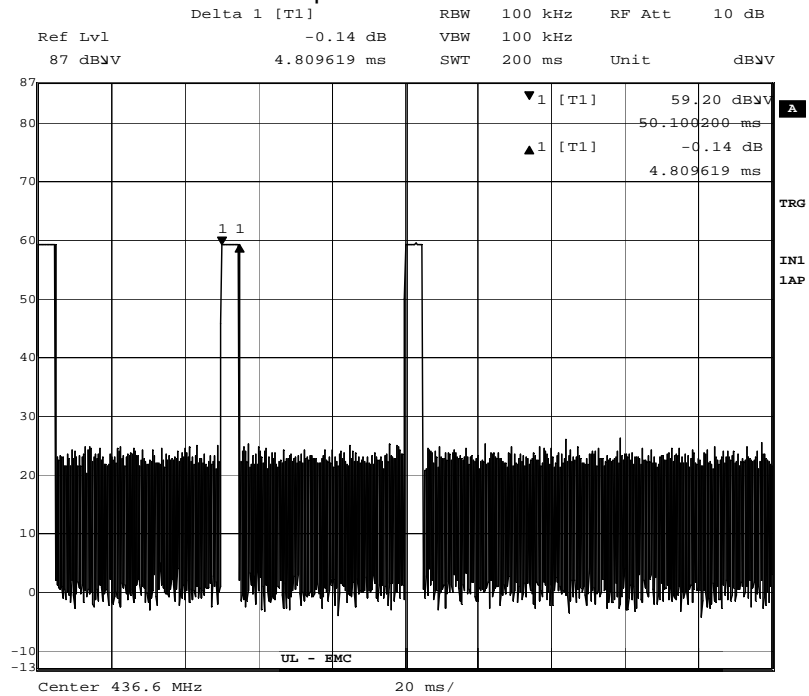
Date: 16.SEP.2009 09:42:04

Note: Full pulse train greater than 100mS. Only pulses up to 100mS are shown.



Date: 16.SEP.2009 09:40:37

First pulse width – 4.8mS



Date: 16.SEP.2009 09:41:15

SECOND PULSE WIDTH – 4.8MS

**4.5 Test Conditions and Results – INTENTIONAL RADIATED EMISSIONS**

Test Description	Measurements were made in a 10-meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4. From 9kHz to 5GHz preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3-meter. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in both horizontal and vertical polarities. Final measurements (quasi-peak or average as noted) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4-meters. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.		
Basic Standard	FCC Part 15 Subpart C 15.209 and 15.231		
UL LPG	80-EM-S0029		
	Frequency range	Measurement Point	
Fully configured sample scanned over the following frequency range	9kHz – 1GHz	(3 meter measurement distance)	
Fully configured sample scanned over the following frequency range	1GHz – 5GHz	(3 meter measurement distance)	
<b>Intentional Radiator Limits</b>			
Frequency (MHz)	Limit (dBµV/m)		
	Quasi-Peak	Average	
	General Emissions	Fundamental	Spurious
0.009 – 0.490	128.5 – 93.8	-	-
0.490 – 1.705	73.8 – 63	-	-
1.705 – 30	69.5	-	-
30 – 88	40	-	-
88 – 216	43.5	-	-
216 – 960	46	-	-
1000 – 10000	54	-	-
Fundamental - 431		80.7	
Fundamental - 437		80.9	
Spurious of 431			60.7
Spurious of 437			60.9
Supplementary information: Spurious limits are only applied against products of the transmitter. All other emissions must meet the general limits.			
For the range 9kHz to 30MHz, only one channel is tested since the transmitter does not operate in that range.			

**Table 16 Radiated Emissions EUT Configuration Settings**

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	1
1	1	2
Supplementary information: None		

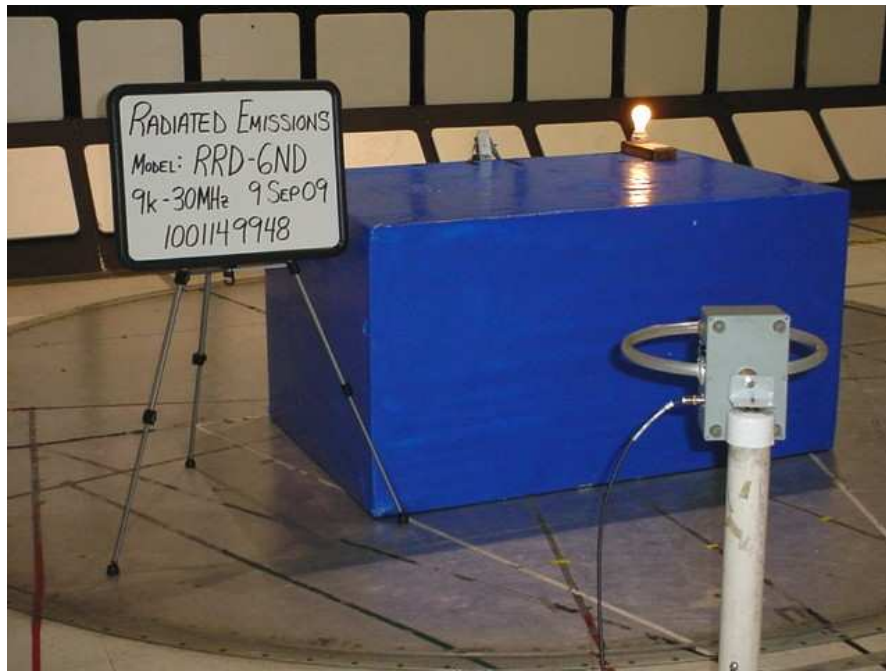
**Table 17 Radiated Emissions Test Equipment**

Test Equipment Used			
Description	Manufacturer	Model	Identifier
9kHz-30MHz			
EMI Receiver	Rohde & Schwarz	ESIB40	34968
Active Loop Antenna	EMCO	6507	ME5A-288
Switch Driver	HP	11713A	ME7A-627
System Controller	Sunol Sciences	SC99V	44396
Camera Controller	Panasonic	WV-CU254	44395
RF Switch Box	UL	1	44398
Measurement Software	UL	Version 9.3	44740
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Multimeter	Fluke	83V	43443
30-1000MHz			
EMI Receiver	Rohde & Schwarz	ESIB40	34968
Bicon Antenna	Schaffner	VBA6106A	54
Log-P Antenna	Schaffner	UPA6109	44067
Switch Driver	HP	11713A	ME7A-627
System Controller	Sunol Sciences	SC99V	44396
Camera Controller	Panasonic	WV-CU254	44395
RF Switch Box	UL	1	44398
Measurement Software	UL	Version 9.3	44740
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Multimeter	Fluke	83V	43443
Above 1GHz (Band Optimized System)			
Spectrum Analyzer	Agilent	E7405A	19695
Horn Antenna (1-2 GHz)	ETS	3161-01	51442
Horn Antenna (2-4 GHz)	ETS	3161-02	48107
Horn Antenna (4-8 GHz)	ETS	3161-03	48106
Signal Path Controller	HP	11713A	50250
Gain Controller	HP	11713A	50251

Job Number: 1001149948 File Number: MC15896 Page 55 of 102  
Model Number: RRD-6ND  
Client Name: LUTRON ELECTRONICS INC  
FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

<b>Test Equipment Used</b>			
Description	Manufacturer	Model	Identifier
RF Switch / Preamp Fixture	UL	BOMS1	50249
System Controller	UL	BOMS2	50252
Measurement Software	UL	Version 9.3	44740
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Multimeter	Fluke	83V	43443

**Figure 13 Test setup for Radiated Emissions**



9kHz – 30MHz



9kHz – 30MHz





30-1000MHz



30-1000MHz

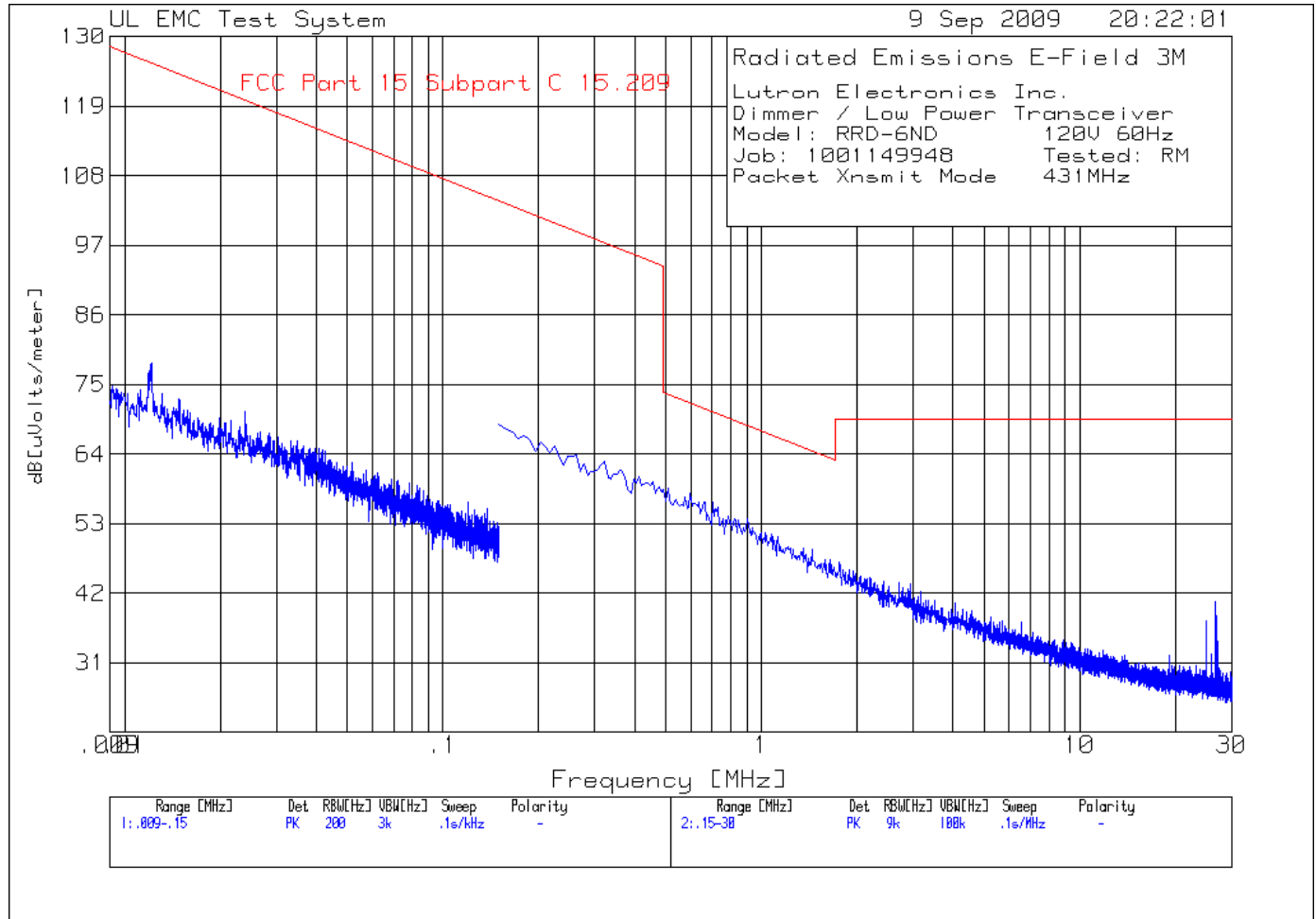


1-5GHz



1-5GHz

**Figure 14 Radiated Emissions Graph**



**Table 18 Radiated Emissions Data Points**

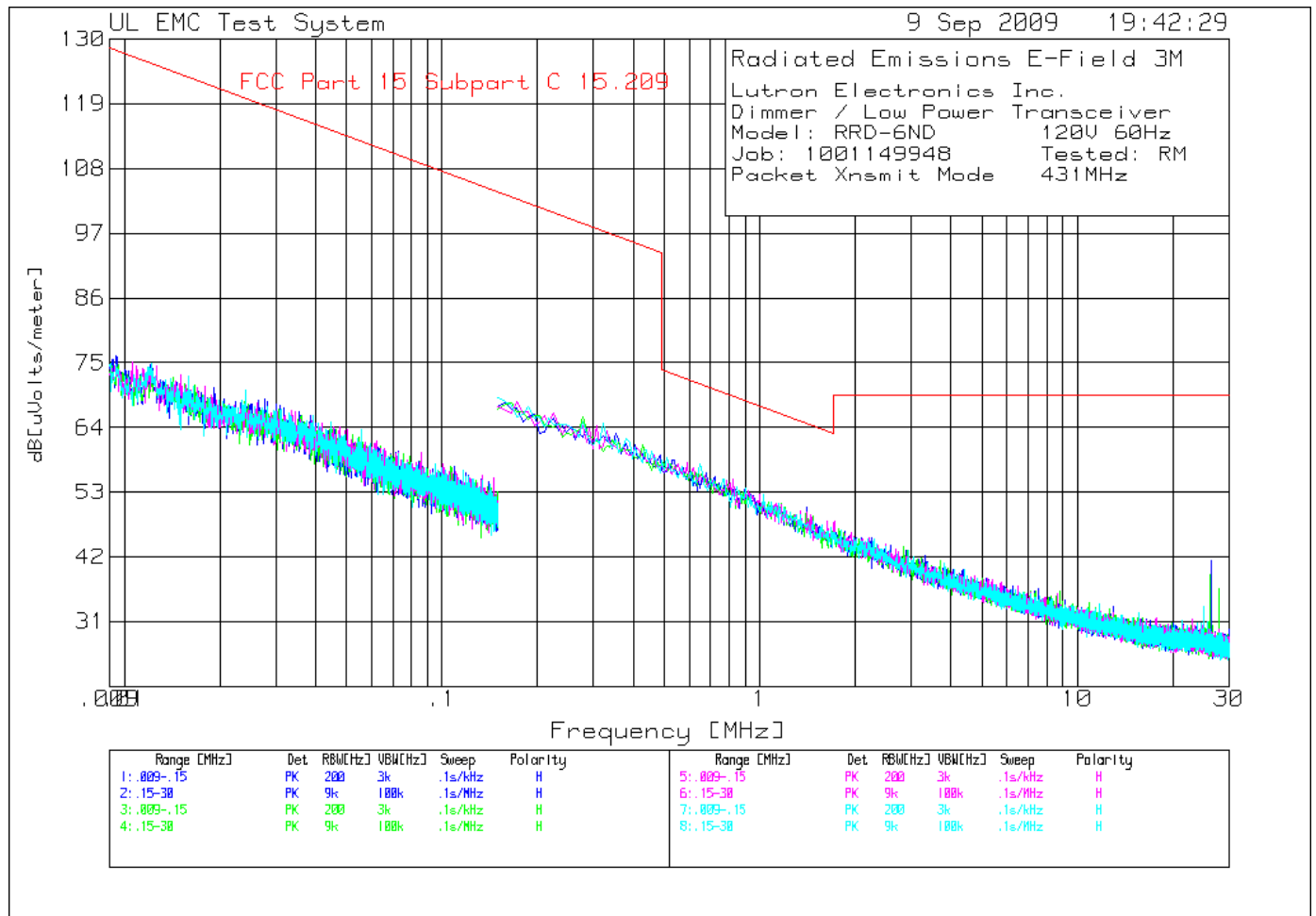
Lutron Electronics Inc.  
 Dimmer / Low Power Transceiver  
 Model: RRD-6ND 120V 60Hz  
 Job: 1001149948 Tested: RM  
 Packet Xnsmit Mode 431MHz

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====											
Range 1 .009 - .15MHz -----											
1	.01216	48.37 pk	.1	29.9	78.37	125.9	-	-	-	-	-
	Azimuth:76			Margin [dB]		-47.53	-	-	-	-	-
2	.0239	45.67 pk	0	25	70.67	120	-	-	-	-	-
	Azimuth:226			Margin [dB]		-49.33	-	-	-	-	-
Range 2 .15 - 30MHz -----											
3	.45604	42.48 pk	0	17.2	59.68	94.4	-	-	-	-	-
	Azimuth:1			Margin [dB]		-34.72	-	-	-	-	-
4	1.35176	32.39 pk	.1	16.7	49.19	65	-	-	-	-	-
	Azimuth:305			Margin [dB]		-15.81	-	-	-	-	-
5	25.04366	19.52 pk	.3	17.8	37.62	69.5	-	-	-	-	-
	Azimuth:358			Margin [dB]		-31.88	-	-	-	-	-
6	26.60371	22.76 pk	.3	17.7	40.76	69.5	-	-	-	-	-
	Azimuth:214			Margin [dB]		-28.74	-	-	-	-	-
7	26.82764	20.53 pk	.3	17.7	38.53	69.5	-	-	-	-	-
	Azimuth:275			Margin [dB]		-30.97	-	-	-	-	-
8	27.05158	16.51 pk	.3	17.6	34.41	69.5	-	-	-	-	-
	Azimuth:92			Margin [dB]		-35.09	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: NONE  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - denotes average log detection

**Figure 15 Radiated Emissions Graph**



**Table 19 Radiated Emissions Data Points**

Lutron Electronics Inc.  
 Dimmer / Low Power Transceiver  
 Model: RRD-6ND 120V 60Hz  
 Job: 1001149948 Tested: RM  
 Packet Xnsmit Mode 431MHz

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
-----											
0°	.009 - .15MHz	-----									
1	.01216	44.66 pk	.1	29.9	74.66	125.9	-	-	-	-	-
	Azimuth:6	Height:101	Horz	Margin [dB]		-51.24	-	-	-	-	-
2	.02756	44.52 pk	0	24.4	68.92	118.8	-	-	-	-	-
	Azimuth:354	Height:101	Horz	Margin [dB]		-49.88	-	-	-	-	-
-----											
0°	.15 - 30MHz	-----									
3	1.40401	33.64 pk	.1	16.7	50.44	64.7	-	-	-	-	-
	Azimuth:123	Height:101	Horz	Margin [dB]		-14.26	-	-	-	-	-
4	26.26782	23.27 pk	.3	17.7	41.27	69.5	-	-	-	-	-
	Azimuth:145	Height:101	Horz	Margin [dB]		-28.23	-	-	-	-	-
-----											
45°	.009 - .15MHz	-----									
5	.01419	43.69 pk	0	28.8	72.49	124.5	-	-	-	-	-
	Azimuth:58	Height:120	Horz	Margin [dB]		-52.01	-	-	-	-	-
6	.07552	40.72 pk	0	18.8	59.52	110	-	-	-	-	-
	Azimuth:59	Height:120	Horz	Margin [dB]		-50.48	-	-	-	-	-
-----											
45°	.15 - 30MHz	-----									
7	26.22303	21.06 pk	.3	17.7	39.06	69.5	-	-	-	-	-
	Azimuth:246	Height:120	Horz	Margin [dB]		-30.44	-	-	-	-	-
8	27.95476	18.74 pk	.3	17.6	36.64	69.5	-	-	-	-	-
	Azimuth:237	Height:120	Horz	Margin [dB]		-32.86	-	-	-	-	-
-----											
90°	.009 - .15MHz	-----									
9	.01509	44.6 pk	0	28.3	72.9	124	-	-	-	-	-
	Azimuth:6	Height:140	Horz	Margin [dB]		-51.1	-	-	-	-	-
10	.08585	41.11 pk	0	18.6	59.71	108.9	-	-	-	-	-
	Azimuth:6	Height:140	Horz	Margin [dB]		-49.19	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: NONE  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - Average log detector  
 ave - Average detector

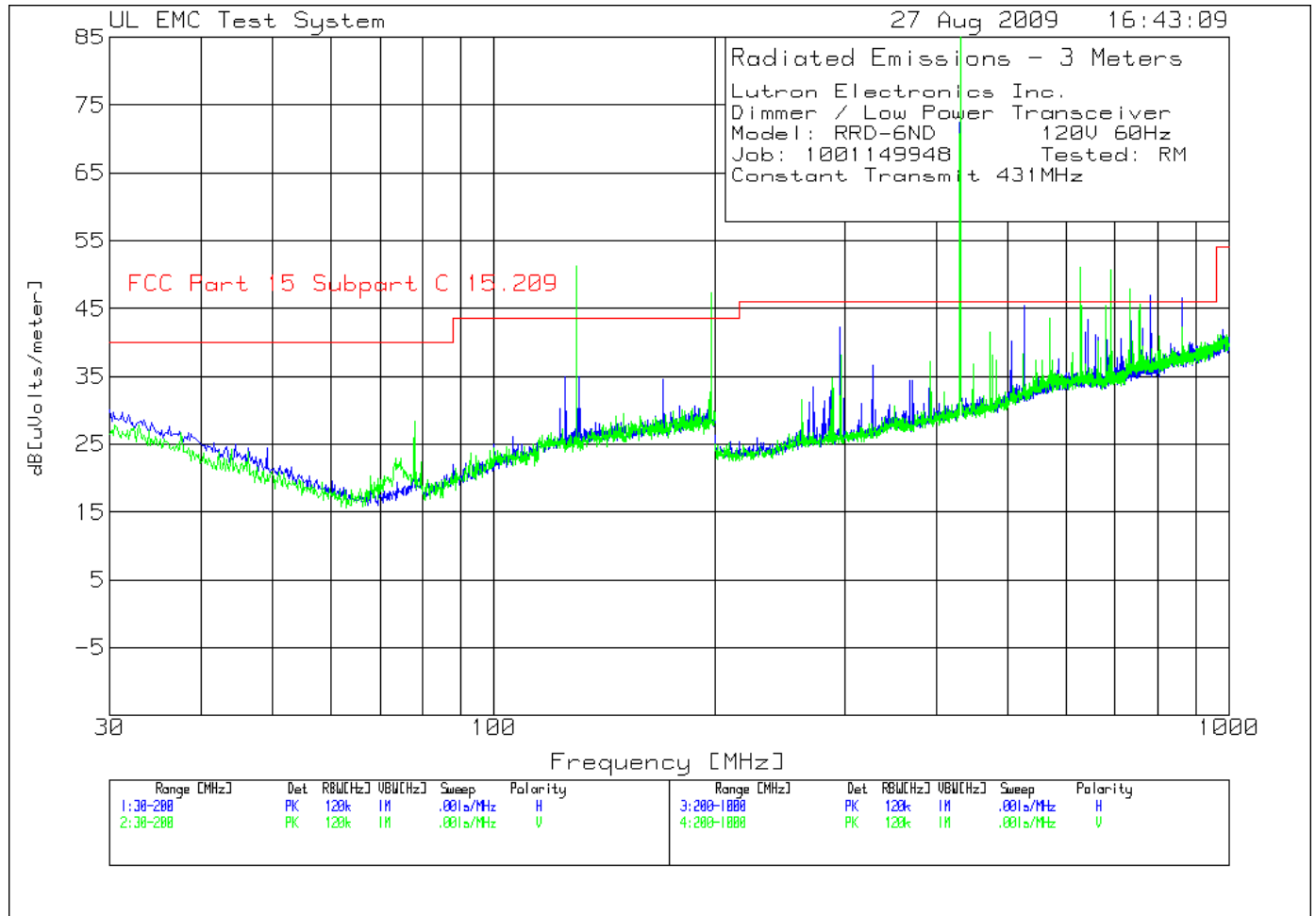
Job Number: 1001149948 File Number: MC15896 Page 63 of 102  
 Model Number: RRD-6ND  
 Client Name: LUTRON ELECTRONICS INC  
 FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
-----											
90°	.15 - 30MHz	-----									
11	.82179	38.59 pk	0	16.7	55.29	69.3	-	-	-	-	-
	Azimuth:32	Height:140	Horz	Margin [dB]		-14.01	-	-	-	-	-
12	1.71752	31.22 pk	.1	16.7	48.02	69.5	-	-	-	-	-
	Azimuth:215	Height:140	Horz	Margin [dB]		-21.48	-	-	-	-	-
-----											
135°	.009 - .15MHz	-----									
13	.02407	45.45 pk	0	25	70.45	120	-	-	-	-	-
	Azimuth:354	Height:159	Horz	Margin [dB]		-49.55	-	-	-	-	-
14	.05555	43.45 pk	0	20.2	63.65	112.7	-	-	-	-	-
	Azimuth:6	Height:159	Horz	Margin [dB]		-49.05	-	-	-	-	-
-----											
135°	.15 - 30MHz	-----									
15	.65011	40.82 pk	0	16.9	57.72	71.3	-	-	-	-	-
	Azimuth:176	Height:159	Horz	Margin [dB]		-13.58	-	-	-	-	-
16	25.04366	15.38 pk	.3	17.8	33.48	69.5	-	-	-	-	-
	Azimuth:337	Height:159	Horz	Margin [dB]		-36.02	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: NONE  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - Average log detector  
 ave - Average detector

**Figure 16 Radiated Emissions Graph**





**Table 20 Radiated Emissions Data Points**

Lutron Electronics Inc.  
 Dimmer / Low Power Transceiver  
 Model: RRD-6ND 120V 60Hz  
 Job: 1001149948 Tested: RM  
 Constant Transmit 431MHz

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
-----											
Horizontal 30 - 200MHz											
1	125.1251	20.69 pk	.7	13.5	34.89	43.5	-	-	-	-	-
	Azimuth:350	Height:300	Horz	Margin [dB]		-8.61	-	-	-	-	-
2	130.4004	20.33 pk	.7	13.9	34.93	43.5	-	-	-	-	-
	Azimuth:258	Height:100	Horz	Margin [dB]		-8.57	-	-	-	-	-
3	169.7097	18.97 pk	.8	14.8	34.57	43.5	-	-	-	-	-
	Azimuth:330	Height:400	Horz	Margin [dB]		-8.93	-	-	-	-	-
-----											
Vertical 30 - 200MHz											
4	77.988	20.61 pk	.6	7.1	28.31	40	-	-	-	-	-
	Azimuth:180	Height:100	Vert	Margin [dB]		-11.69	-	-	-	-	-
5	129.3794	36.66 pk	.7	13.9	51.26	43.5	-	-	-	-	-
	Azimuth:323	Height:100	Vert	Margin [dB]		7.76	-	-	-	-	-
6	197.6176	30.21 pk	.9	16.3	47.41	43.5	-	-	-	-	-
	Azimuth:145	Height:100	Vert	Margin [dB]		3.91	-	-	-	-	-
-----											
Horizontal 200 - 1000MHz											
7	272.036	18.89 pk	1.1	13.4	33.39	46	-	-	-	-	-
	Azimuth:228	Height:299	Horz	Margin [dB]		-12.61	-	-	-	-	-
8	295.2476	27.41 pk	1.1	13.8	42.31	46	-	-	-	-	-
	Azimuth:358	Height:299	Horz	Margin [dB]		-3.69	-	-	-	-	-
9	327.2636	20.77 pk	1.2	14.6	36.57	46	-	-	-	-	-
	Azimuth:4	Height:100	Horz	Margin [dB]		-9.43	-	-	-	-	-
10	430.9155	71.78 pk	1.3	16.7	89.78	46	-	-	-	-	-
	Azimuth:276	Height:100	Horz	Margin [dB]		43.78	-	-	-	-	-
11	504.9525	20.42 pk	1.4	18.3	40.12	46	-	-	-	-	-
	Azimuth:344	Height:100	Horz	Margin [dB]		-5.88	-	-	-	-	-
12	526.5633	25.48 pk	1.4	18.5	45.38	46	-	-	-	-	-
	Azimuth:28	Height:100	Horz	Margin [dB]		-.62	-	-	-	-	-
13	637.0185	19.39 pk	1.6	20.5	41.49	46	-	-	-	-	-
	Azimuth:295	Height:100	Horz	Margin [dB]		-4.51	-	-	-	-	-
14	641.8209	21.42 pk	1.6	20.4	43.42	46	-	-	-	-	-
	Azimuth:344	Height:200	Horz	Margin [dB]		-2.58	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: NONE  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - Average log detector  
 ave - Average detector

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 200 - 1000MHz -----											
15	658.6293	18.89 pk	1.6	20.6	41.09	46	-	-	-	-	-
	Azimuth:169	Height:299	Horz	Margin [dB]		-4.91	-	-	-	-	-
16	662.6313	18.72 pk	1.6	20.5	40.82	46	-	-	-	-	-
	Azimuth:211	Height:200	Horz	Margin [dB]		-5.18	-	-	-	-	-
17	683.4417	17.83 pk	1.6	20.9	40.33	46	-	-	-	-	-
	Azimuth:344	Height:100	Horz	Margin [dB]		-5.67	-	-	-	-	-
18	691.0455	20.63 pk	1.6	20.9	43.13	46	-	-	-	-	-
	Azimuth:13	Height:100	Horz	Margin [dB]		-2.87	-	-	-	-	-
19	713.8569	17.8 pk	1.7	21	40.5	46	-	-	-	-	-
	Azimuth:13	Height:100	Horz	Margin [dB]		-5.5	-	-	-	-	-
20	734.6673	20.35 pk	1.7	21.2	43.25	46	-	-	-	-	-
	Azimuth:169	Height:100	Horz	Margin [dB]		-2.75	-	-	-	-	-
21	757.0785	20.6 pk	1.7	21.3	43.6	46	-	-	-	-	-
	Azimuth:169	Height:100	Horz	Margin [dB]		-2.4	-	-	-	-	-
22	763.0815	18.94 pk	1.7	21.5	42.14	46	-	-	-	-	-
	Azimuth:253	Height:200	Horz	Margin [dB]		-3.86	-	-	-	-	-
23	782.6913	23.52 pk	1.7	21.7	46.92	46	-	-	-	-	-
	Azimuth:169	Height:100	Horz	Margin [dB]		.92	-	-	-	-	-
24	862.3312	21.81 pk	1.7	23.1	46.61	46	-	-	-	-	-
	Azimuth:90	Height:100	Horz	Margin [dB]		.61	-	-	-	-	-
Vertical 200 - 1000MHz -----											
25	296.048	23.35 pk	1.1	13.6	38.05	46	-	-	-	-	-
	Azimuth:143	Height:300	Vert	Margin [dB]		-7.95	-	-	-	-	-
26	392.4962	20.26 pk	1.2	15.8	37.26	46	-	-	-	-	-
	Azimuth:186	Height:100	Vert	Margin [dB]		-8.74	-	-	-	-	-
27	430.9155	69.13 pk	1.3	16.4	86.83	46	-	-	-	-	-
	Azimuth:24	Height:100	Vert	Margin [dB]		40.83	-	-	-	-	-
28	472.5363	22.72 pk	1.4	17.4	41.52	46	-	-	-	-	-
	Azimuth:24	Height:200	Vert	Margin [dB]		-4.48	-	-	-	-	-
29	476.5383	19.3 pk	1.4	17.5	38.2	46	-	-	-	-	-
	Azimuth:278	Height:200	Vert	Margin [dB]		-7.8	-	-	-	-	-
30	482.5413	18.04 pk	1.5	17.8	37.34	46	-	-	-	-	-
	Azimuth:278	Height:200	Vert	Margin [dB]		-8.66	-	-	-	-	-
31	524.9625	18.15 pk	1.4	18.7	38.25	46	-	-	-	-	-
	Azimuth:319	Height:200	Vert	Margin [dB]		-7.75	-	-	-	-	-
32	570.1851	22.44 pk	1.5	19.7	43.64	46	-	-	-	-	-
	Azimuth:13	Height:100	Vert	Margin [dB]		-2.36	-	-	-	-	-
33	627.0135	29.18 pk	1.6	20.3	51.08	46	-	-	-	-	-
	Azimuth:212	Height:200	Vert	Margin [dB]		5.08	-	-	-	-	-
34	629.4147	23.49 pk	1.6	20.4	45.49	46	-	-	-	-	-
	Azimuth:17	Height:100	Vert	Margin [dB]		-.51	-	-	-	-	-
35	663.8319	18.01 pk	1.6	20.5	40.11	46	-	-	-	-	-
	Azimuth:338	Height:200	Vert	Margin [dB]		-5.89	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: NONE  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - Average log detector  
 ave - Average detector

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====											
Vertical 200 - 1000MHz -----											
36	678.6393	23.26 pk	1.6	20.6	45.46	46	-	-	-	-	-
	Azimuth:14	Height:200	Vert	Margin [dB]		-.54	-	-	-	-	-
37	689.8449	28.12 pk	1.6	21	50.72	46	-	-	-	-	-
	Azimuth:43	Height:200	Vert	Margin [dB]		4.72	-	-	-	-	-
38	732.2661	24.52 pk	1.7	21.5	47.72	46	-	-	-	-	-
	Azimuth:296	Height:100	Vert	Margin [dB]		1.72	-	-	-	-	-
39	733.8669	24.5 pk	1.7	21.6	47.8	46	-	-	-	-	-
	Azimuth:343	Height:100	Vert	Margin [dB]		1.8	-	-	-	-	-
40	740.2701	16.89 pk	1.7	21.7	40.29	46	-	-	-	-	-
	Azimuth:338	Height:100	Vert	Margin [dB]		-5.71	-	-	-	-	-
41	754.2771	20.91 pk	1.7	22.1	44.71	46	-	-	-	-	-
	Azimuth:86	Height:100	Vert	Margin [dB]		-1.29	-	-	-	-	-
42	755.4777	21.76 pk	1.7	22.1	45.56	46	-	-	-	-	-
	Azimuth:2	Height:100	Vert	Margin [dB]		-.44	-	-	-	-	-
43	804.7024	16.91 pk	1.7	22.4	41.01	46	-	-	-	-	-
	Azimuth:14	Height:100	Vert	Margin [dB]		-4.99	-	-	-	-	-
44	861.931	17.47 pk	1.7	23	42.17	46	-	-	-	-	-
	Azimuth:143	Height:200	Vert	Margin [dB]		-3.83	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: NONE  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - Average log detector  
 ave - Average detector

Job Number: 1001149948 File Number: MC15896 Page 68 of 102  
 Model Number: RRD-6ND  
 Client Name: LUTRON ELECTRONICS INC  
 FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

Lutron Electronics Inc.  
 Dimmer / Low Power Transceiver  
 Model: RRD-6ND 120V 60Hz  
 Job: 1001149948 Tested: RM  
 Constant Transmit 431MHz

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Vertical 30 - 200MHz										
129.3794	7.72 qp	.7	13.9	22.32	43.5	-	-	-	-	-
Azimuth: 73	Height:133	Vert		Margin [dB]:	-21.18	-	-	-	-	-
197.6176	8.24 qp	.9	16.3	25.44	43.5	-	-	-	-	-
Azimuth: 107	Height:360	Vert		Margin [dB]:	-18.06	-	-	-	-	-
Horizontal 200 - 1000MHz										
430.98	66.62 pk	1.3	16.7	64.22*	-	80.7	-	-	-	-
Azimuth: 356	Height:109	Horz		Margin [dB]:	-	-16.48	-	-	-	-
861.9883	23.78 pk	1.7	23.1	48.58	-	60.7	-	-	-	-
Azimuth: 105	Height:100	Horz		Margin [dB]:	-	-12.12	-	-	-	-
295.2476	7.11 qp	1.1	13.8	22.01	46	-	-	-	-	-
Azimuth: 96	Height:320	Horz		Margin [dB]:	-23.99	-	-	-	-	-
504.9525	8.13 qp	1.4	18.3	27.83	46	-	-	-	-	-
Azimuth: 59	Height:320	Horz		Margin [dB]:	-18.17	-	-	-	-	-
526.5633	8.07 qp	1.4	18.5	27.97	46	-	-	-	-	-
Azimuth: 282	Height:291	Horz		Margin [dB]:	-18.03	-	-	-	-	-
637.0185	8.24 qp	1.6	20.5	30.34	46	-	-	-	-	-
Azimuth: 276	Height:158	Horz		Margin [dB]:	-15.66	-	-	-	-	-
641.8209	8.07 qp	1.6	20.4	30.07	46	-	-	-	-	-
Azimuth: 204	Height:286	Horz		Margin [dB]:	-15.93	-	-	-	-	-
658.6293	7.96 qp	1.6	20.6	30.16	46	-	-	-	-	-
Azimuth: 292	Height:194	Horz		Margin [dB]:	-15.84	-	-	-	-	-

**\*Duty Cycle correction factor of 20.4 applied (see section 4.4 of report for calculation)**

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: FCC Part 15 Subpart C 15.231  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector (Maximized)  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - Average log detector  
 ave - Average detector

Job Number: 1001149948 File Number: MC15896 Page 69 of 102  
 Model Number: RRD-6ND  
 Client Name: LUTRON ELECTRONICS INC  
 FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Vertical 30 - 200MHz										
662.6313	7.96 qp	1.6	20.5	30.06	46	-	-	-	-	-
Azimuth: 140 Height:345 Horz					Margin [dB]:	-15.94	-	-	-	-
683.4417	8.07 qp	1.6	20.9	30.57	46	-	-	-	-	-
Azimuth: 154 Height:104 Horz					Margin [dB]:	-15.43	-	-	-	-
691.0455	8.19 qp	1.6	20.9	30.69	46	-	-	-	-	-
Azimuth: 263 Height:109 Horz					Margin [dB]:	-15.31	-	-	-	-
713.8569	8.13 qp	1.7	21	30.83	46	-	-	-	-	-
Azimuth: 176 Height:247 Horz					Margin [dB]:	-15.17	-	-	-	-
734.6673	8.41 qp	1.7	21.2	31.31	46	-	-	-	-	-
Azimuth: 27 Height:325 Horz					Margin [dB]:	-14.69	-	-	-	-
757.0785	8.62 qp	1.7	21.3	31.62	46	-	-	-	-	-
Azimuth: 12 Height:250 Horz					Margin [dB]:	-14.38	-	-	-	-
763.0815	8.73 qp	1.7	21.5	31.93	46	-	-	-	-	-
Azimuth: 93 Height:268 Horz					Margin [dB]:	-14.07	-	-	-	-
782.6913	8.52 qp	1.7	21.7	31.92	46	-	-	-	-	-
Azimuth: 300 Height:386 Horz					Margin [dB]:	-14.08	-	-	-	-
Vertical 200 - 1000MHz										
430.978	68.33 pk	1.3	16.4	65.63	-	80.7	-	-	-	-
Azimuth: 118 Height:124 Vert					Margin [dB]:	-15.07	-	-	-	-
861.9862	25.46 pk	1.7	23	50.16	-	60.7	-	-	-	-
Azimuth: 177 Height:139 Vert					Margin [dB]:	-10.53	-	-	-	-
627.0135	8.35 qp	1.6	20.3	30.25	46	-	-	-	-	-
Azimuth: 48 Height:304 Vert					Margin [dB]:	-15.75	-	-	-	-
629.4147	8.35 qp	1.6	20.4	30.35	46	-	-	-	-	-
Azimuth: 281 Height:274 Vert					Margin [dB]:	-15.65	-	-	-	-

\* Duty Cycle correction factor of 20.4 applied (see section 4.4 of report for calculation)

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: NONE  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector (Maximized)  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - Average log detector  
 ave - Average detector

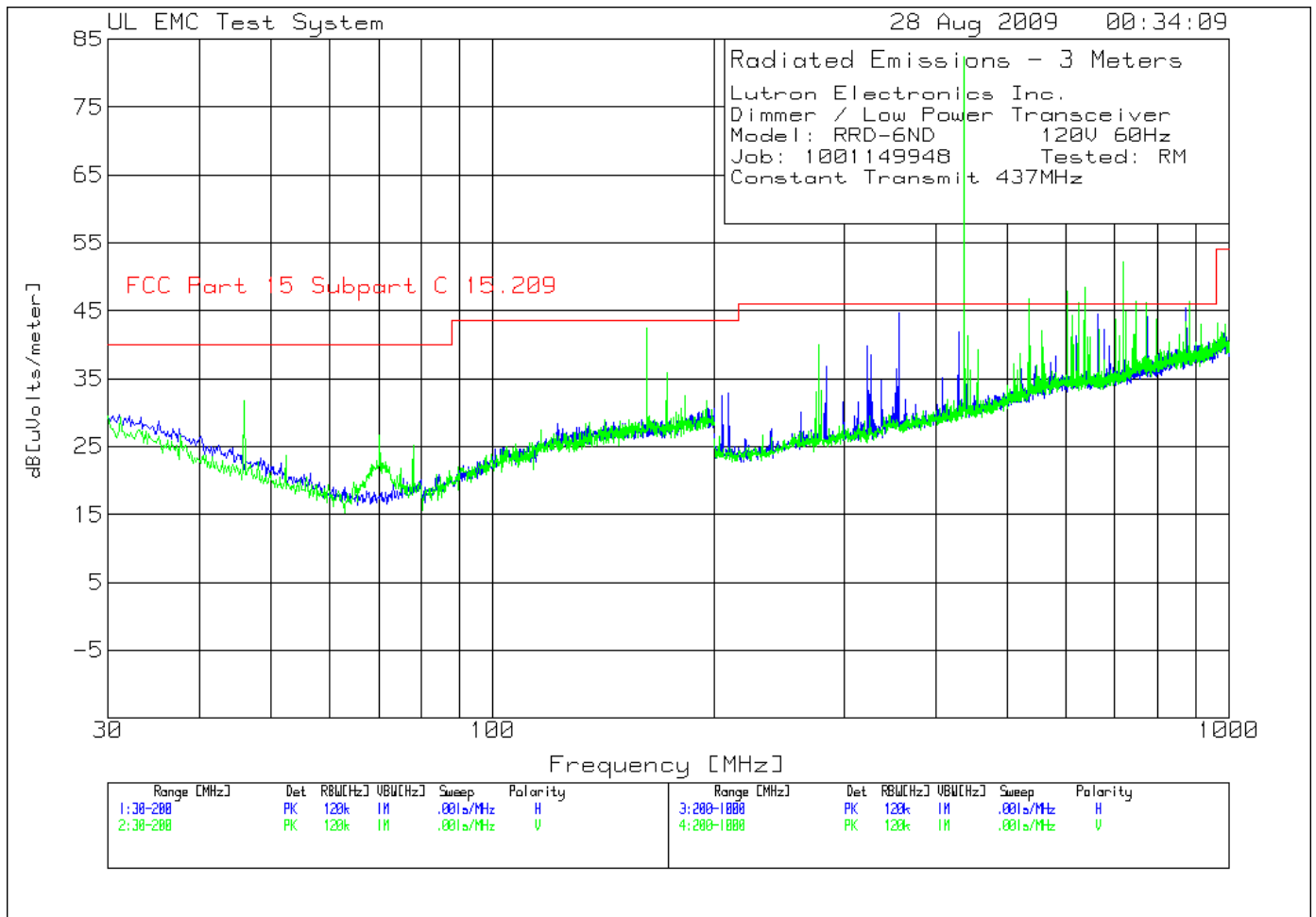
Job Number: 1001149948 File Number: MC15896 Page 70 of 102  
 Model Number: RRD-6ND  
 Client Name: LUTRON ELECTRONICS INC  
 FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Vertical	200 - 1000MHz									
663.8319	7.9 qp	1.6	20.5	30	46	-	-	-	-	-
Azimuth: 271	Height:286	Vert	Margin [dB]:	-16		-	-	-	-	-
678.6393	8.01 qp	1.6	20.6	30.21	46	-	-	-	-	-
Azimuth: 79	Height:295	Vert	Margin [dB]:	-15.79		-	-	-	-	-
689.8449	8.13 qp	1.6	21	30.73	46	-	-	-	-	-
Azimuth: 274	Height:244	Vert	Margin [dB]:	-15.27		-	-	-	-	-
732.2661	8.41 qp	1.7	21.5	31.61	46	-	-	-	-	-
Azimuth: 171	Height:392	Vert	Margin [dB]:	-14.39		-	-	-	-	-
733.8669	8.41 qp	1.7	21.6	31.71	46	-	-	-	-	-
Azimuth: 1	Height:100	Vert	Margin [dB]:	-14.29		-	-	-	-	-
740.2701	8.46 qp	1.7	21.7	31.86	46	-	-	-	-	-
Azimuth: 296	Height:236	Vert	Margin [dB]:	-14.14		-	-	-	-	-
754.2771	8.57 qp	1.7	22.1	32.37	46	-	-	-	-	-
Azimuth: 125	Height:217	Vert	Margin [dB]:	-13.63		-	-	-	-	-
755.4777	8.57 qp	1.7	22.1	32.37	46	-	-	-	-	-
Azimuth: 23	Height:135	Vert	Margin [dB]:	-13.63		-	-	-	-	-
804.7024	8.57 qp	1.7	22.4	32.67	46	-	-	-	-	-
Azimuth: 52	Height:238	Vert	Margin [dB]:	-13.33		-	-	-	-	-
472.5363	7.48 qp	1.4	17.4	26.28	46	-	-	-	-	-
Azimuth: 55	Height:273	Vert	Margin [dB]:	-19.72		-	-	-	-	-
570.1851	8.57 qp	1.5	19.7	29.77	46	-	-	-	-	-
Azimuth: 332	Height:359	Vert	Margin [dB]:	-16.23		-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: NONE  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - Average log detector  
 ave - Average detector

**Figure 17 Radiated Emissions Graph**



**Table 21 Radiated Emissions Data Points**

Lutron Electronics Inc.  
 Dimmer / Low Power Transceiver  
 Model: RRD-6ND 120V 60Hz  
 Job: 1001149948 Tested: RM  
 Constant Transmit 437MHz

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 30 - 200MHz -----											
1	33.2332	11.8 pk	.4	17.2	29.4	40	-	-	-	-	-
	Azimuth:71	Height:100	Horz	Margin [dB]		-10.6	-	-	-	-	-
Vertical 30 - 200MHz -----											
2	45.996	20.62 pk	.4	10.8	31.82	40	-	-	-	-	-
	Azimuth:214	Height:100	Vert	Margin [dB]		-8.18	-	-	-	-	-
3	161.7117	25.96 pk	.8	15.6	42.36	43.5	-	-	-	-	-
	Azimuth:251	Height:100	Vert	Margin [dB]		-1.14	-	-	-	-	-
4	172.2623	19.55 pk	.8	15.6	35.95	43.5	-	-	-	-	-
	Azimuth:178	Height:100	Vert	Margin [dB]		-7.55	-	-	-	-	-
Horizontal 200 - 1000MHz -----											
5	283.6418	22.12 pk	1.1	13.6	36.82	46	-	-	-	-	-
	Azimuth:17	Height:200	Horz	Margin [dB]		-9.18	-	-	-	-	-
6	322.8614	24.25 pk	1.2	14.4	39.85	46	-	-	-	-	-
	Azimuth:358	Height:200	Horz	Margin [dB]		-6.15	-	-	-	-	-
7	326.063	22.76 pk	1.2	14.6	38.56	46	-	-	-	-	-
	Azimuth:17	Height:200	Horz	Margin [dB]		-7.44	-	-	-	-	-
8	356.078	27.93 pk	1.2	15.6	44.73	46	-	-	-	-	-
	Azimuth:358	Height:200	Horz	Margin [dB]		-1.27	-	-	-	-	-
9	428.9145	23.88 pk	1.3	16.7	41.88	46	-	-	-	-	-
	Azimuth:275	Height:100	Horz	Margin [dB]		-4.12	-	-	-	-	-
10	436.9185	63.04 pk	1.3	17	81.34	46	-	-	-	-	-
	Azimuth:66	Height:100	Horz	Margin [dB]		35.34	-	-	-	-	-
11	441.3207	20.13 pk	1.3	17.1	38.53	46	-	-	-	-	-
	Azimuth:233	Height:100	Horz	Margin [dB]		-7.47	-	-	-	-	-
12	580.9905	17.06 pk	1.6	19.7	38.36	46	-	-	-	-	-
	Azimuth:107	Height:100	Horz	Margin [dB]		-7.64	-	-	-	-	-
13	620.6103	19.65 pk	1.6	20	41.25	46	-	-	-	-	-
	Azimuth:44	Height:400	Horz	Margin [dB]		-4.75	-	-	-	-	-
14	664.2321	22.41 pk	1.6	20.5	44.51	46	-	-	-	-	-
	Azimuth:87	Height:100	Horz	Margin [dB]		-1.49	-	-	-	-	-



No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 200 - 1000MHz -----											
15	677.0385	19.9 pk	1.6	20.7	42.2	46	-	-	-	-	-
	Azimuth:214	Height:400	Horz	Margin [dB]		-3.8	-	-	-	-	-
16	687.0435	17.24 pk	1.6	20.9	39.74	46	-	-	-	-	-
	Azimuth:129	Height:100	Horz	Margin [dB]		-6.26	-	-	-	-	-
17	775.0875	20.79 pk	1.7	21.7	44.19	46	-	-	-	-	-
	Azimuth:257	Height:300	Horz	Margin [dB]		-1.81	-	-	-	-	-
18	873.937	20.69 pk	1.7	23	45.39	46	-	-	-	-	-
	Azimuth:54	Height:100	Horz	Margin [dB]		-.61	-	-	-	-	-
19	875.5378	17.75 pk	1.7	23	42.45	46	-	-	-	-	-
	Azimuth:272	Height:100	Horz	Margin [dB]		-3.55	-	-	-	-	-
Vertical 200 - 1000MHz -----											
20	277.2386	25.85 pk	1	13.1	39.95	46	-	-	-	-	-
	Azimuth:17	Height:100	Vert	Margin [dB]		-6.05	-	-	-	-	-
21	436.9185	64.64 pk	1.3	16.5	82.44	46	-	-	-	-	-
	Azimuth:17	Height:100	Vert	Margin [dB]		36.44	-	-	-	-	-
22	442.1211	23.48 pk	1.3	16.6	41.38	46	-	-	-	-	-
	Azimuth:24	Height:100	Vert	Margin [dB]		-4.62	-	-	-	-	-
23	455.3277	21.1 pk	1.3	16.9	39.3	46	-	-	-	-	-
	Azimuth:66	Height:100	Vert	Margin [dB]		-6.7	-	-	-	-	-
24	520.1601	18.78 pk	1.4	18.6	38.78	46	-	-	-	-	-
	Azimuth:66	Height:100	Vert	Margin [dB]		-7.22	-	-	-	-	-
25	535.7679	26.3 pk	1.4	19.1	46.8	46	-	-	-	-	-
	Azimuth:108	Height:200	Vert	Margin [dB]		.8	-	-	-	-	-
26	557.3787	20.73 pk	1.5	19.8	42.03	46	-	-	-	-	-
	Azimuth:317	Height:100	Vert	Margin [dB]		-3.97	-	-	-	-	-
27	602.6013	26.45 pk	1.6	19.9	47.95	46	-	-	-	-	-
	Azimuth:299	Height:200	Vert	Margin [dB]		1.95	-	-	-	-	-
28	613.8069	22.55 pk	1.6	20.1	44.25	46	-	-	-	-	-
	Azimuth:214	Height:100	Vert	Margin [dB]		-1.75	-	-	-	-	-
29	610.2051	19.49 pk	1.6	20	41.09	46	-	-	-	-	-
	Azimuth:342	Height:200	Vert	Margin [dB]		-4.91	-	-	-	-	-
30	534.1671	20.7 pk	1.4	19.1	41.2	46	-	-	-	-	-
	Azimuth:317	Height:200	Vert	Margin [dB]		-4.8	-	-	-	-	-
31	558.9795	18.3 pk	1.5	19.8	39.6	46	-	-	-	-	-
	Azimuth:108	Height:200	Vert	Margin [dB]		-6.4	-	-	-	-	-
32	623.8119	24.43 pk	1.6	20.2	46.23	46	-	-	-	-	-
	Azimuth:2	Height:200	Vert	Margin [dB]		.23	-	-	-	-	-
33	634.6173	21.56 pk	1.6	20.5	43.66	46	-	-	-	-	-
	Azimuth:44	Height:400	Vert	Margin [dB]		-2.34	-	-	-	-	-
34	637.4187	26.4 pk	1.6	20.5	48.5	46	-	-	-	-	-
	Azimuth:214	Height:200	Vert	Margin [dB]		2.5	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: NONE  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - Average log detector  
 ave - Average detector

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====											
Vertical 200 - 1000MHz -----											
35	642.6213	19.08 pk	1.6	20.5	41.18	46	-	-	-	-	-
	Azimuth:129	Height:400	Vert	Margin [dB]		-4.82	-	-	-	-	-
36	646.6233	18.99 pk	1.6	20.5	41.09	46	-	-	-	-	-
	Azimuth:86	Height:100	Vert	Margin [dB]		-4.91	-	-	-	-	-
37	666.2331	20.08 pk	1.6	20.5	42.18	46	-	-	-	-	-
	Azimuth:86	Height:100	Vert	Margin [dB]		-3.82	-	-	-	-	-
38	701.8509	21.11 pk	1.6	21	43.71	46	-	-	-	-	-
	Azimuth:343	Height:200	Vert	Margin [dB]		-2.29	-	-	-	-	-
39	709.4547	18.78 pk	1.6	20.9	41.28	46	-	-	-	-	-
	Azimuth:129	Height:200	Vert	Margin [dB]		-4.72	-	-	-	-	-
40	718.2591	29.44 pk	1.7	21	52.14	46	-	-	-	-	-
	Azimuth:343	Height:100	Vert	Margin [dB]		6.14	-	-	-	-	-
41	725.0625	22.07 pk	1.7	21.2	44.97	46	-	-	-	-	-
	Azimuth:44	Height:200	Vert	Margin [dB]		-1.03	-	-	-	-	-
42	746.2731	22.77 pk	1.7	22	46.47	46	-	-	-	-	-
	Azimuth:257	Height:200	Vert	Margin [dB]		.47	-	-	-	-	-
43	742.2711	18.05 pk	1.7	21.8	41.55	46	-	-	-	-	-
	Azimuth:343	Height:300	Vert	Margin [dB]		-4.45	-	-	-	-	-
44	771.8859	22.41 pk	1.7	22.1	46.21	46	-	-	-	-	-
	Azimuth:44	Height:200	Vert	Margin [dB]		.21	-	-	-	-	-
45	796.6983	19.71 pk	1.7	22.4	43.81	46	-	-	-	-	-
	Azimuth:342	Height:100	Vert	Margin [dB]		-2.19	-	-	-	-	-
46	873.937	18.47 pk	1.7	23.2	43.37	46	-	-	-	-	-
	Azimuth:13	Height:200	Vert	Margin [dB]		-2.63	-	-	-	-	-
47	884.7424	21.5 pk	1.8	23	46.3	46	-	-	-	-	-
	Azimuth:203	Height:100	Vert	Margin [dB]		.3	-	-	-	-	-
48	916.3582	17.68 pk	2	23.3	42.98	46	-	-	-	-	-
	Azimuth:101	Height:200	Vert	Margin [dB]		-3.02	-	-	-	-	-
49	965.5828	16.72 pk	1.9	24.6	43.22	54	-	-	-	-	-
	Azimuth:17	Height:200	Vert	Margin [dB]		-10.78	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: NONE  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - Average log detector  
 ave - Average detector

Job Number: 1001149948 File Number: MC15896 Page 75 of 102  
 Model Number: RRD-6ND  
 Client Name: LUTRON ELECTRONICS INC  
 FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

Lutron Electronics Inc.  
 Dimmer / Low Power Transceiver  
 Model: RRD-6ND 120V 60Hz  
 Job: 1001149948 Tested: RM  
 Constant Transmit 437MHz

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Vertical 30 - 200MHz										
161.7	7.78 qp	.8	15.6	24.18	43.5	-	-	-	-	-
Azimuth: 269	Height:197	Vert		Margin [dB]:	-19.32	-	-	-	-	-
Horizontal 200 - 1000MHz										
436.8908	60.99 pk	1.3	17	58.89*	-	80.9	-	-	-	-
Azimuth: 10	Height:106	Horz		Margin [dB]:	-	-22.01	-	-	-	-
873.7893	24.31 pk	1.7	23	49.01	-	60.9	-	-	-	-
Azimuth: 280	Height:110	Horz		Margin [dB]:	-	-11.89	-	-	-	-
356	15.32 qp	1.2	15.6	32.12	46	-	-	-	-	-
Azimuth: 346	Height:301	Horz		Margin [dB]:	-13.88	-	-	-	-	-
429	16.26 qp	1.3	16.7	34.26	46	-	-	-	-	-
Azimuth: 69	Height:129	Horz		Margin [dB]:	-11.74	-	-	-	-	-
620.6	17.3 qp	1.6	20	38.9	46	-	-	-	-	-
Azimuth: 318	Height:126	Horz		Margin [dB]:	-7.1	-	-	-	-	-
664.2	17.1 qp	1.6	20.5	39.2	46	-	-	-	-	-
Azimuth: 3	Height:299	Horz		Margin [dB]:	-6.8	-	-	-	-	-
677	17.5 qp	1.6	20.7	39.8	46	-	-	-	-	-
Azimuth: 1	Height:299	Horz		Margin [dB]:	-6.2	-	-	-	-	-
775	18.41 qp	1.7	21.7	41.81	46	-	-	-	-	-
Azimuth: 161	Height:280	Horz		Margin [dB]:	-4.19	-	-	-	-	-
875.5	18.75 qp	1.7	23	43.45	46	-	-	-	-	-
Azimuth: 0	Height:183	Horz		Margin [dB]:	-2.55	-	-	-	-	-

\* Duty Cycle correction factor of 20.4 applied (see section 4.4 of report for calculation)

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: NONE  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector (Maximized)  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - Average log detector  
 ave - Average detector

Job Number: 1001149948 File Number: MC15896 Page 76 of 102  
 Model Number: RRD-6ND  
 Client Name: LUTRON ELECTRONICS INC  
 FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Vertical 200 - 1000MHz										
436.8888	65.76 pk	1.3	16.5	63.16*	-	80.9	-	-	-	-
Azimuth: 328 Height:126 Vert					Margin [dB]:	-	-17.74	-	-	-
873.7878	25.62 pk	1.7	23.2	50.52	-	60.9	-	-	-	-
Azimuth: 191 Height:135 Vert					Margin [dB]:	-	-10.38	-	-	-
442.1211	7.66 qp	1.3	16.6	25.56	46	-	-	-	-	-
Azimuth: 196 Height:190 Vert					Margin [dB]:	-20.44	-	-	-	-
535.7679	8.19 qp	1.4	19.1	28.69	46	-	-	-	-	-
Azimuth: 49 Height:164 Vert					Margin [dB]:	-17.31	-	-	-	-
557.3787	8.35 qp	1.5	19.8	29.65	46	-	-	-	-	-
Azimuth: 305 Height:211 Vert					Margin [dB]:	-16.35	-	-	-	-
602.6013	8.68 qp	1.6	19.9	30.18	46	-	-	-	-	-
Azimuth: 55 Height:162 Vert					Margin [dB]:	-15.82	-	-	-	-
613.8069	8.62 qp	1.6	20.1	30.32	46	-	-	-	-	-
Azimuth: 217 Height:198 Vert					Margin [dB]:	-15.68	-	-	-	-
610.2051	8.73 qp	1.6	20	30.33	46	-	-	-	-	-
Azimuth: 140 Height:137 Vert					Margin [dB]:	-15.67	-	-	-	-
534.1671	8.24 qp	1.4	19.1	28.74	46	-	-	-	-	-
Azimuth: 312 Height:101 Vert					Margin [dB]:	-17.26	-	-	-	-
623.8119	8.52 qp	1.6	20.2	30.32	46	-	-	-	-	-
Azimuth: 204 Height:196 Vert					Margin [dB]:	-15.68	-	-	-	-
634.6173	8.46 qp	1.6	20.5	30.56	46	-	-	-	-	-
Azimuth: 134 Height:126 Vert					Margin [dB]:	-15.44	-	-	-	-
637.5	8.01 qp	1.6	20.5	30.11	46	-	-	-	-	-
Azimuth: 308 Height:155 Vert					Margin [dB]:	-15.89	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: NONE  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - Average log detector  
 ave - Average detector

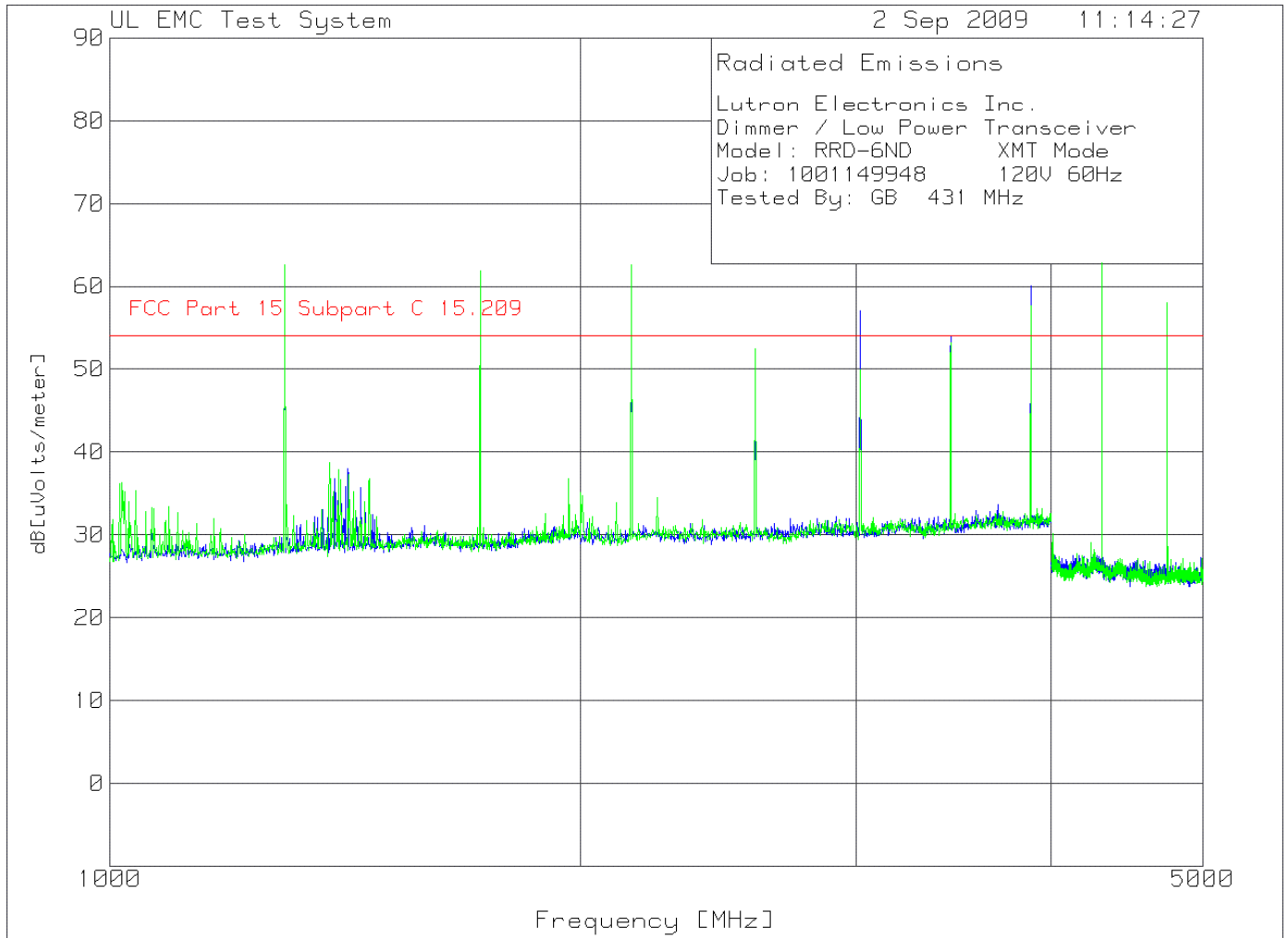
Job Number: 1001149948 File Number: MC15896 Page 77 of 102  
 Model Number: RRD-6ND  
 Client Name: LUTRON ELECTRONICS INC  
 FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
642.7	8.01 qp	1.6	20.5	30.11	46	-	-	-	-	-
Azimuth: 37 Height:100 Vert					Margin [dB]:	-15.89	-	-	-	-
646.6	7.96 qp	1.6	20.5	30.06	46	-	-	-	-	-
Azimuth: 286 Height:100 Vert					Margin [dB]:	-15.94	-	-	-	-
666.2	7.72 qp	1.6	20.5	29.82	46	-	-	-	-	-
Azimuth: 306 Height:110 Vert					Margin [dB]:	-16.18	-	-	-	-
702	8.07 qp	1.6	21	30.67	46	-	-	-	-	-
Azimuth: 51 Height:110 Vert					Margin [dB]:	-15.33	-	-	-	-
709.4	8.07 qp	1.6	20.9	30.57	46	-	-	-	-	-
Azimuth: 123 Height:177 Vert					Margin [dB]:	-15.43	-	-	-	-
718.2	8.13 qp	1.7	21	30.83	46	-	-	-	-	-
Azimuth: 110 Height:110 Vert					Margin [dB]:	-15.17	-	-	-	-
725	8.19 qp	1.7	21.2	31.09	46	-	-	-	-	-
Azimuth: 293 Height:102 Vert					Margin [dB]:	-14.91	-	-	-	-
746.2	8.41 qp	1.7	22	32.11	46	-	-	-	-	-
Azimuth: 285 Height:250 Vert					Margin [dB]:	-13.89	-	-	-	-
742.3	8.41 qp	1.7	21.8	31.91	46	-	-	-	-	-
Azimuth: 284 Height:120 Vert					Margin [dB]:	-14.09	-	-	-	-
771.8	8.57 qp	1.7	22.1	32.37	46	-	-	-	-	-
Azimuth: 26 Height:225 Vert					Margin [dB]:	-13.63	-	-	-	-
797	8.3 qp	1.7	22.4	32.4	46	-	-	-	-	-
Azimuth: 320 Height:226 Vert					Margin [dB]:	-13.6	-	-	-	-
885	8.62 qp	1.8	23	33.42	46	-	-	-	-	-
Azimuth: 90 Height:108 Vert					Margin [dB]:	-12.58	-	-	-	-
916.3	8.78 qp	2	23.3	34.08	46	-	-	-	-	-
Azimuth: 283 Height:120 Vert					Margin [dB]:	-11.92	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: NONE  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - Average log detector  
 ave - Average detector

Figure 18 Radiated Emissions Graph



**Table 22 Radiated Emissions Data Points**

Lutron Electronics Inc.  
 Dimmer / Low Power Transceiver  
 Model: RRD-6ND XMT Mode  
 Job: 1001149948 120V 60Hz  
 Tested By: GB 431 MHz

Test No.	Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
-----											
Horizontal 1000 - 2000MHz -----											
1	1293.383	87.27 pk	-45.59	20.5	62.18	54	-	-	-	-	-
		Height:149	Horz	Margin [dB]		8.18	-	-	-	-	-
2	1725.343	84.58 pk	-45.07	20.8	60.31	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		6.31	-	-	-	-	-
10	1419.476	62.94 pk	-45.62	20.7	38.02	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-15.98	-	-	-	-	-
-----											
Horizontal 2000 - 4000MHz -----											
3	2154.806	82.15 pk	-43.92	21.4	59.63	54	-	-	-	-	-
		Height:150	Horz	Margin [dB]		5.63	-	-	-	-	-
4	2586.767	70.72 pk	-43.55	21.3	48.47	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-5.53	-	-	-	-	-
5	3018.727	78.4 pk	-42.88	21.5	57.02	54	-	-	-	-	-
		Height:199	Horz	Margin [dB]		3.02	-	-	-	-	-
6	3450.687	74.62 pk	-42.81	22.2	54.01	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		.01	-	-	-	-	-
7	3880.15	80.4 pk	-42.9	22.6	60.1	54	-	-	-	-	-
		Height:150	Horz	Margin [dB]		6.1	-	-	-	-	-
-----											
Horizontal 4000 - 5000MHz -----											
8	4309.484	83.25 pk	-53.3	27.7	57.65	54	-	-	-	-	-
		Height:150	Horz	Margin [dB]		3.65	-	-	-	-	-
9	4741.265	85.23 pk	-54.49	27.2	57.94	54	-	-	-	-	-
		Height:150	Horz	Margin [dB]		3.94	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: NONE  
 LIMIT 3: NONE

PK - Peak detector  
 QP - Quasi-Peak detector  
 av - Linear average detector  
 avlg - Average log detector  
 AV - Average detector  
 CAV - CISPR Average detector  
 RMS - RMS detection  
 CRMS - CISPR RMS detection

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Vertical 1000 - 2000MHz -----											
11	1293.383	87.66 pk	-45.59	20.5	62.57	54	-	-	-	-	-
		Height:150 Vert		Margin [dB]		8.57	-	-	-	-	-
19	1725.343	86.14 pk	-45.07	20.8	61.87	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		7.87	-	-	-	-	-
20	1965.044	59.52 pk	-44.69	22	36.83	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		-17.17	-	-	-	-	-
21	1382.022	63.73 pk	-45.65	20.7	38.78	54	-	-	-	-	-
		Height:150 Vert		Margin [dB]		-15.22	-	-	-	-	-
22	1017.478	62.59 pk	-45.68	19.4	36.31	54	-	-	-	-	-
		Height:150 Vert		Margin [dB]		-17.69	-	-	-	-	-
Vertical 2000 - 4000MHz -----											
12	2154.806	85.49 pk	-43.92	21	62.57	54	-	-	-	-	-
		Height:150 Vert		Margin [dB]		8.57	-	-	-	-	-
13	2586.767	74.55 pk	-43.55	21.5	52.5	54	-	-	-	-	-
		Height:200 Vert		Margin [dB]		-1.5	-	-	-	-	-
14	3018.727	71.14 pk	-42.88	21.7	49.96	54	-	-	-	-	-
		Height:200 Vert		Margin [dB]		-4.04	-	-	-	-	-
15	3450.687	73.8 pk	-42.81	22.2	53.19	54	-	-	-	-	-
		Height:200 Vert		Margin [dB]		-.81	-	-	-	-	-
16	3880.15	77.92 pk	-42.9	22.6	57.62	54	-	-	-	-	-
		Height:200 Vert		Margin [dB]		3.62	-	-	-	-	-
Vertical 4000 - 5000MHz -----											
17	4309.484	88.36 pk	-53.3	27.8	62.86	54	-	-	-	-	-
		Height:199 Vert		Margin [dB]		8.86	-	-	-	-	-
18	4741.265	85.39 pk	-54.49	27.1	58	54	-	-	-	-	-
		Height:199 Vert		Margin [dB]		4	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: NONE  
 LIMIT 3: NONE

PK - Peak detector  
 QP - Quasi-Peak detector  
 av - Linear average detector  
 avlg - Average log detector  
 AV - Average detector  
 CAV - CISPR Average detector  
 RMS - RMS detection  
 CRMS - CISPR RMS detection



Job Number: 1001149948 File Number: MC15896 Page 81 of 102  
 Model Number: RRD-6ND  
 Client Name: LUTRON ELECTRONICS INC  
 FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

Lutron Electronics Inc.  
 Dimmer / Low Power Transceiver  
 Model: RRD-6ND XMT Mode  
 Job: 1001149948 120V 60Hz  
 Tested By: GB 431 MHz

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level Limit:1 dB[uVolts/meter]	2	3	4	5	6
Horizontal 1000 - 2000MHz									
1292.98	86.47 PK	-45.6	20.5	40.97*	-	60.7	-	-	-
Azimuth: 211 Height:162 Horz					Margin [dB]:	-	-19.73	-	-
1723.9775	84.36 PK	-45.13	20.8	39.63	-	60.7	-	-	-
Azimuth: 140 Height:374 Horz					Margin [dB]:	-	-21.07	-	-
Horizontal 2000 - 4000MHz									
2154.9675	82.48 PK	-43.91	21.4	39.57*	-	60.7	-	-	-
Azimuth: 103 Height:216 Horz					Margin [dB]:	-	-21.13	-	-
2585.97	67.41 PK	-43.55	21.3	45.16	-	60.7	-	-	-
Azimuth: 192 Height:101 Horz					Margin [dB]:	-	-15.54	-	-
3016.97	78.49 PK	-42.91	21.5	57.08	-	60.7	-	-	-
Azimuth: 204 Height:350 Horz					Margin [dB]:	-	-3.62	-	-

\* Duty Cycle correction factor of 20.4 applied (see section 4.4 of report for calculation)

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: FCC Part 15 Subpart C 15.231  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector (Maximized)  
 QP - Quasi-Peak detector  
 av - Linear average detector  
 avlg - Average log detector  
 AV - Average detector  
 CAV - CISPR Average detector  
 RMS - RMS detection  
 CRMS - CISPR RMS detection

Job Number: 1001149948 File Number: MC15896 Page 82 of 102  
 Model Number: RRD-6ND  
 Client Name: LUTRON ELECTRONICS INC  
 FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 2000 - 4000MHz										
3447.975	75.37 PK	-42.83	22.1	54.64	-	60.7	-	-	-	-
Azimuth: 244 Height:352 Horz		Margin [dB]:		-	-6.05	-	-	-	-	-
3878.9538	82.05 PK	-42.92	22.6	41.33*	54	-	-	-	-	-
Azimuth: 83 Height:365 Horz		Margin [dB]:		-12.67	-	-	-	-	-	-
Horizontal 4000 - 5000MHz										
4309.95	82.22 PK	-53.31	27.7	36.21*	54	-	-	-	-	-
Azimuth: 340 Height:385 Horz		Margin [dB]:		-17.79	-	-	-	-	-	-
4740.9425	85.63 PK	-54.49	27.2	27.94*	54	-	-	-	-	-
Azimuth: 215 Height:371 Horz		Margin [dB]:		-16.06	-	-	-	-	-	-
Vertical 1000 - 2000MHz										
1292.9838	86.12 PK	-45.6	20.5	40.62*	-	60.7	-	-	-	-
Azimuth: 188 Height:359 Vert		Margin [dB]:		-	-20.08	-	-	-	-	-
1723.9813	86.5 PK	-45.13	20.8	41.70*	-	60.7	-	-	-	-
Azimuth: 209 Height:258 Vert		Margin [dB]:		-	-19.00	-	-	-	-	-

\* Duty Cycle correction factor of 20.4 applied (see section 4.4 of report for calculation)

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: FCC Part 15 Subpart C 15.231  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector (Maximized)  
 QP - Quasi-Peak detector  
 av - Linear average detector  
 avlg - Average log detector  
 AV - Average detector  
 CAV - CISPR Average detector  
 RMS - RMS detection  
 CRMS - CISPR RMS detection

Job Number: 1001149948 File Number: MC15896 Page 83 of 102  
 Model Number: RRD-6ND  
 Client Name: LUTRON ELECTRONICS INC  
 FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

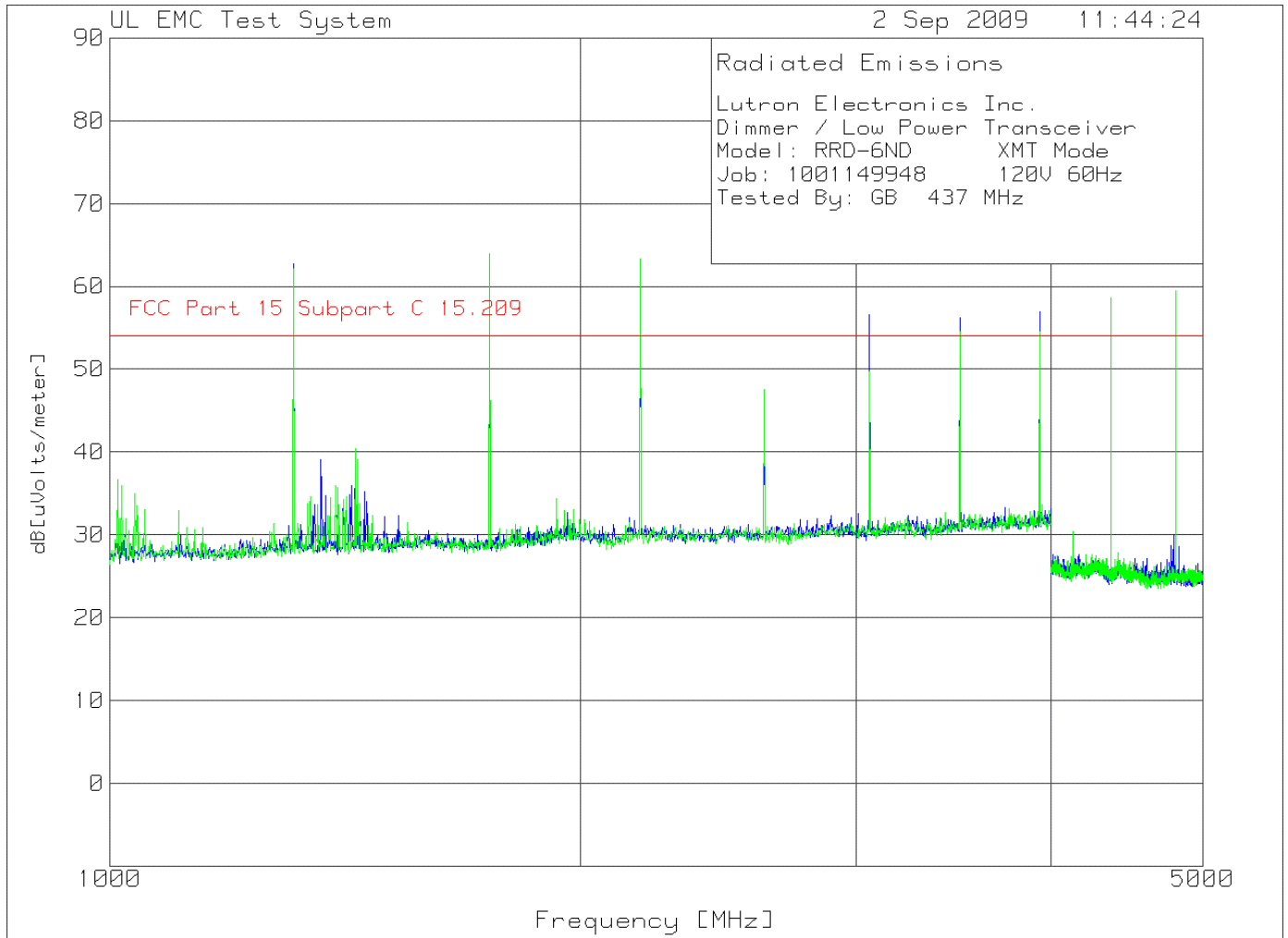
Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Vertical 2000 - 4000MHz										
2154.97	86.29 PK	-43.91	21	42.98*	-	60.7	-	-	-	-
Azimuth: 218	Height:326	Vert		Margin [dB]:	-	-17.72	-	-	-	-
2585.975	76.85 PK	-43.55	21.5	54.8	-	60.7	-	-	-	-
Azimuth: 217	Height:399	Vert		Margin [dB]:	-	-5.9	-	-	-	-
3016.9675	71.61 PK	-42.91	21.7	50.4	-	60.7	-	-	-	-
Azimuth: 135	Height:398	Vert		Margin [dB]:	-	-10.3	-	-	-	-
3447.9551	70.16 PK	-42.83	22.2	49.53	-	60.7	-	-	-	-
Azimuth: 63	Height:177	Vert		Margin [dB]:	-	-11.17	-	-	-	-
3878.955	81.39 PK	-42.92	22.6	40.60*	54	-	-	-	-	-
Azimuth: 186	Height:339	Vert		Margin [dB]:	-13.40	-	-	-	-	-
Vertical 4000 - 5000MHz										
4309.95	88.76 PK	-53.31	27.8	42.85*	54	-	-	-	-	-
Azimuth: 230	Height:365	Vert		Margin [dB]:	-11.15	-	-	-	-	-
4740.945	88.61 PK	-54.49	27.1	40.82*	54	-	-	-	-	-
Azimuth: 217	Height:385	Vert		Margin [dB]:	-13.18	-	-	-	-	-

\* Duty Cycle correction factor of 20.4 applied (see section 4.4 of report for calculation)

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: FCC Part 15 Subpart C 15.231  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector (Maximized)  
 QP - Quasi-Peak detector  
 av - Linear average detector  
 avlg - Average log detector  
 AV - Average detector  
 CAV - CISPR Average detector  
 RMS - RMS detection  
 CRMS - CISPR RMS detection

**Figure 19 Radiated Emissions Graph**



**Table 23 Radiated Emissions Data Points**

Lutron Electronics Inc.  
 Dimmer / Low Power Transceiver  
 Model: RRD-6ND XMT Mode  
 Job: 1001149948 120V 60Hz  
 Tested By: GB 437 MHz

Test No.	Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
-----											
Horizontal 1000 - 2000MHz -----											
1	1310.861	90.89 pk	-45.73	20.5	65.66	54	-	-	-	-	-
		Height:149	Horz	Margin [dB]	11.66	-	-	-	-	-	-
2	1749.064	83.4 pk	-45.01	20.8	59.19	54	-	-	-	-	-
		Height:149	Horz	Margin [dB]	5.19	-	-	-	-	-	-
-----											
Horizontal 2000 - 4000MHz -----											
3	2184.769	83.29 pk	-44.02	21.5	60.77	54	-	-	-	-	-
		Height:199	Horz	Margin [dB]	6.77	-	-	-	-	-	-
4	2621.723	64.28 pk	-43.42	21.4	42.26	54	-	-	-	-	-
		Height:199	Horz	Margin [dB]	-11.74	-	-	-	-	-	-
5	3061.174	77.92 pk	-42.93	21.6	56.59	54	-	-	-	-	-
		Height:150	Horz	Margin [dB]	2.59	-	-	-	-	-	-
6	3495.63	76.9 pk	-42.87	22.2	56.23	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]	2.23	-	-	-	-	-	-
7	3932.584	77.02 pk	-42.76	22.7	56.96	54	-	-	-	-	-
		Height:199	Horz	Margin [dB]	2.96	-	-	-	-	-	-
-----											
Horizontal 4000 - 5000MHz -----											
8	4369.384	80.7 pk	-53.69	27.6	54.61	54	-	-	-	-	-
		Height:149	Horz	Margin [dB]	.61	-	-	-	-	-	-
9	4806.156	84.82 pk	-54.32	27.1	57.6	54	-	-	-	-	-
		Height:149	Horz	Margin [dB]	3.6	-	-	-	-	-	-
-----											
Vertical 1000 - 2000MHz -----											
10	1310.861	92.41 pk	-45.73	20.5	67.18	54	-	-	-	-	-
		Height:200	Vert	Margin [dB]	13.18	-	-	-	-	-	-
11	1749.064	83.05 pk	-45.01	20.8	58.84	54	-	-	-	-	-
		Height:149	Vert	Margin [dB]	4.84	-	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: NONE  
 LIMIT 3: NONE  
 PK - Peak detector  
 QP - Quasi-Peak detector  
 av - Linear average detector  
 avlg - Average log detector  
 AV - Average detector  
 CAV - CISPR Average detector  
 RMS - RMS detection  
 CRMS - CISPR RMS detection

Job Number: 1001149948 File Number: MC15896 Page 86 of 102  
 Model Number: RRD-6ND  
 Client Name: LUTRON ELECTRONICS INC  
 FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Vertical 2000 - 4000MHz -----											
12	2184.769	86.09 pk	-44.02	21.2	63.27	54	-	-	-	-	-
		Height:200 Vert		Margin [dB]		9.27	-	-	-	-	-
13	2621.723	69.52 pk	-43.42	21.4	47.5	54	-	-	-	-	-
		Height:200 Vert		Margin [dB]		-6.5	-	-	-	-	-
14	3061.174	70.82 pk	-42.93	21.8	49.69	54	-	-	-	-	-
		Height:149 Vert		Margin [dB]		-4.31	-	-	-	-	-
15	3495.63	75.05 pk	-42.87	22.4	54.58	54	-	-	-	-	-
		Height:200 Vert		Margin [dB]		.58	-	-	-	-	-
16	3932.584	74.64 pk	-42.76	22.7	54.58	54	-	-	-	-	-
		Height:200 Vert		Margin [dB]		.58	-	-	-	-	-
Vertical 4000 - 5000MHz -----											
17	4369.384	84.58 pk	-53.69	27.7	58.59	54	-	-	-	-	-
		Height:200 Vert		Margin [dB]		4.59	-	-	-	-	-
18	4806.156	86.47 pk	-54.32	27.3	59.45	54	-	-	-	-	-
		Height:200 Vert		Margin [dB]		5.45	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: NONE  
 LIMIT 3: NONE  
 PK - Peak detector  
 QP - Quasi-Peak detector  
 av - Linear average detector  
 avlg - Average log detector  
 AV - Average detector  
 CAV - CISPR Average detector  
 RMS - RMS detection  
 CRMS - CISPR RMS detection

Job Number: 1001149948 File Number: MC15896 Page 87 of 102  
 Model Number: RRD-6ND  
 Client Name: LUTRON ELECTRONICS INC  
 FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

Lutron Electronics Inc.  
 Dimmer / Low Power Transceiver  
 Model: RRD-6ND XMT Mode  
 Job: 1001149948 120V 60Hz  
 Tested By: GB 437 MHz

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Horizontal 1000 - 2000MHz										
1292.98	86.47 PK	-45.6	20.5	40.97*	-	60.9	-	-	-	-
Azimuth: 211 Height:162 Horz					Margin [dB]:	-	-19.93	-	-	-
1723.9775	84.36 PK	-45.13	20.8	39.63*	-	60.9	-	-	-	-
Azimuth: 140 Height:374 Horz					Margin [dB]:	-	-21.27	-	-	-
Horizontal 2000 - 4000MHz										
2184.4725	82.63 PK	-44.01	21.5	39.72*	-	60.9	-	-	-	-
Azimuth: 96 Height:202 Horz					Margin [dB]:	-	-21.18	-	-	-
2621.375	66.68 PK	-43.41	21.4	44.67	-	60.9	-	-	-	-
Azimuth: 287 Height:251 Horz					Margin [dB]:	-	-16.23	-	-	-
3058.27	78.02 PK	-42.94	21.6	56.68	-	60.9	-	-	-	-
Azimuth: 206 Height:270 Horz					Margin [dB]:	-	-4.22	-	-	-

\* Duty Cycle correction factor of 20.4 applied (see section 4.4 of report for calculation)

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: FCC Part 15 Subpart C 15.231  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector (Maximized)  
 QP - Quasi-Peak detector  
 av - Linear average detector  
 avlg - Average log detector  
 AV - Average detector  
 CAV - CISPR Average detector  
 RMS - RMS detection  
 CRMS - CISPR RMS detection

Job Number: 1001149948 File Number: MC15896 Page 88 of 102  
 Model Number: RRD-6ND  
 Client Name: LUTRON ELECTRONICS INC  
 FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 2000 - 4000MHz										
3495.1613	77.83 PK	-42.88	22.2	57.15	-	60.9	-	-	-	-
Azimuth: 278 Height:277		Horz	Margin [dB]:		-	-3.75	-	-	-	-
3932.05	77.09 PK	-42.77	22.7	36.62*	54	-	-	-	-	-
Azimuth: 320 Height:259		Horz	Margin [dB]:		-17.38	-	-	-	-	-
Horizontal 4000 - 5000MHz										
4368.945	80.91 PK	-53.69	27.6	34.42*	54	-	-	-	-	-
Azimuth: 312 Height:314		Horz	Margin [dB]:		-19.58	-	-	-	-	-
4805.8425	84.81 PK	-54.31	27.1	37.2*	54	-	-	-	-	-
Azimuth: 224 Height:362		Horz	Margin [dB]:		-16.8	-	-	-	-	-
Vertical 1000 - 2000MHz										
1292.9838	86.12 PK	-45.6	20.5	40.62*	-	60.9	-	-	-	-
Azimuth: 188 Height:359		Vert	Margin [dB]:		-	-20.28	-	-	-	-
1723.9813	86.5 PK	-45.13	20.8	41.77*	-	60.9	-	-	-	-
Azimuth: 209 Height:258		Vert	Margin [dB]:		-	-19.13	-	-	-	-

\* Duty Cycle correction factor of 20.4 applied (see section 4.4 of report for calculation)

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: FCC Part 15 Subpart C 15.231  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector (Maximized)  
 QP - Quasi-Peak detector  
 av - Linear average detector  
 avlg - Average log detector  
 AV - Average detector  
 CAV - CISPR Average detector  
 RMS - RMS detection  
 CRMS - CISPR RMS detection



Job Number: 1001149948 File Number: MC15896 Page 89 of 102  
 Model Number: RRD-6ND  
 Client Name: LUTRON ELECTRONICS INC  
 FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Vertical 2000 - 4000MHz										
2184.47	86.72 PK	-44.01	21.2	43.51*	-	60.9	-	-	-	-
Azimuth: 174	Height:320	Vert		Margin [dB]:	-	-17.39	-	-	-	-
2621.37	68.85 PK	-43.41	21.4	46.84	-	60.9	-	-	-	-
Azimuth: 155	Height:342	Vert		Margin [dB]:	-	-14.06	-	-	-	-
3058.2709	72.6 PK	-42.94	21.8	51.46	-	60.9	-	-	-	-
Azimuth: 60	Height:399	Vert		Margin [dB]:	-	-9.44	-	-	-	-
3495.164	68.88 PK	-42.88	22.4	48.4	-	60.9	-	-	-	-
Azimuth: 45	Height:394	Vert		Margin [dB]:	-	-12.5	-	-	-	-
3932.039	76.45 PK	-42.77	22.7	35.98*	54	-	-	-	-	-
Azimuth: 195	Height:314	Vert		Margin [dB]:	-18.02	-	-	-	-	-
Vertical 4000 - 5000MHz										
4368.945	86.41 PK	-53.69	27.7	40.02*	54	-	-	-	-	-
Azimuth: 233	Height:311	Vert		Margin [dB]:	-13.98	-	-	-	-	-
4805.85	88.09 PK	-54.31	27.3	40.68*	54	-	-	-	-	-
Azimuth: 213	Height:331	Vert		Margin [dB]:	-13.32	-	-	-	-	-

\* Duty Cycle correction factor of 20.4 applied (see section 4.4 of report for calculation)

LIMIT 1: FCC Part 15 Subpart C 15.209  
 LIMIT 2: FCC Part 15 Subpart C 15.231  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector (Maximized)  
 QP - Quasi-Peak detector  
 av - Linear average detector  
 avlg - Average log detector  
 AV - Average detector  
 CAV - CISPR Average detector  
 RMS - RMS detection  
 CRMS - CISPR RMS detection

**4.6 Test Conditions and Results – RADIATED EMISSIONS**

Test Description	Measurements were made in a 10-meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 10-meter for measurements below 1GHz and 3-meter for above 1GHz. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in both horizontal and vertical polarities. Final measurements (quasi-peak or average as noted) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4-meters. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.	
Basic Standard	FCC Part 15, Subpart C, 15.109	
UL LPG	80-EM-S0029	
	Frequency range	Measurement Point
Fully configured sample scanned over the following frequency range	30MHz – 1GHz	(10 meter measurement distance)
Fully configured sample scanned over the following frequency range	1GHz – 2GHz	(3 meter measurement distance)
<b>Limits - Class B</b>		
Frequency (MHz)	Limit (dBµV/m)	
	Quasi-Peak	Average
30-230	30	NA
230-1000	37	NA
1000 - 2000	NA	54 (at 3-meter)
Supplementary information: CISPR 22 limits applied at frequencies below 1GHz.		

**Table 24 Radiated Emissions EUT Configuration Settings**

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	5
1	1	6
Supplementary information: None		

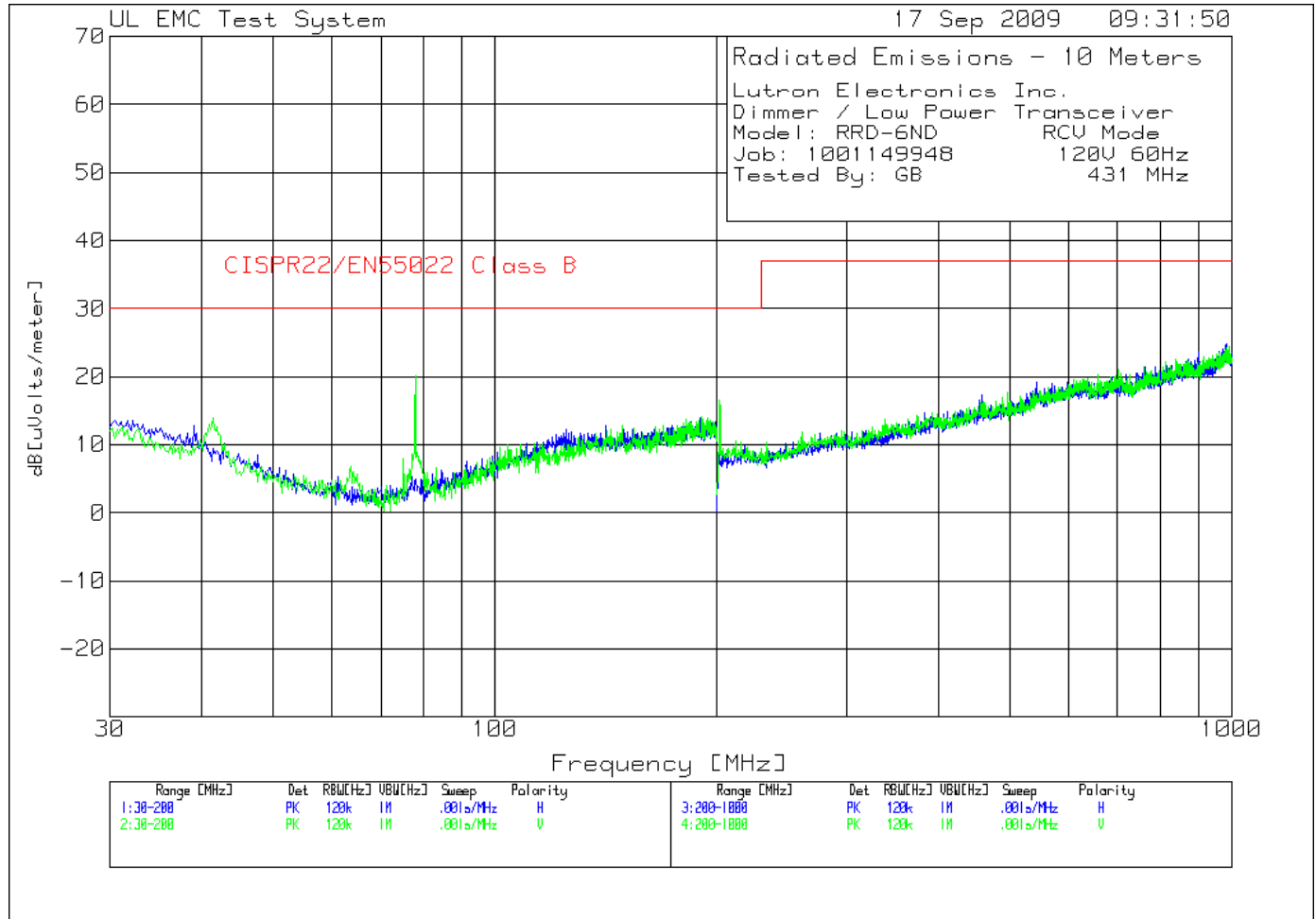
**Table 25 Radiated Emissions Test Equipment**

Test Equipment Used			
Description	Manufacturer	Model	Identifier
30-1000MHz			
EMI Receiver	Rohde & Schwarz	ESIB40	34968
Bicon Antenna	Schaffner	VBA6106A	54
Log-P Antenna	Schaffner	UPA6109	44067
Switch Driver	HP	11713A	ME7A-627
System Controller	Sunol Sciences	SC99V	44396
Camera Controller	Panasonic	WV-CU254	44395
RF Switch Box	UL	1	44398
Measurement Software	UL	Version 9.3	44740
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Multimeter	Fluke	87III	ME5B-218
Above 1GHz (Band Optimized System)			
Spectrum Analyzer	Agilent	E7405A	19695
Horn Antenna (1-2 GHz)	ETS	3161-01	51442
Signal Path Controller	HP	11713A	50250
Gain Controller	HP	11713A	50251
RF Switch / Preamp Fixture	UL	BOMS1	50249
System Controller	UL	BOMS2	50252
Measurement Software	UL	Version 9.3	44740
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Multimeter	Fluke	87III	ME5B-218

**Figure 20 Test setup for Radiated Emissions**



**Figure 21 Radiated Emissions Graph**



**Table 26 Radiated Emissions Data Points**

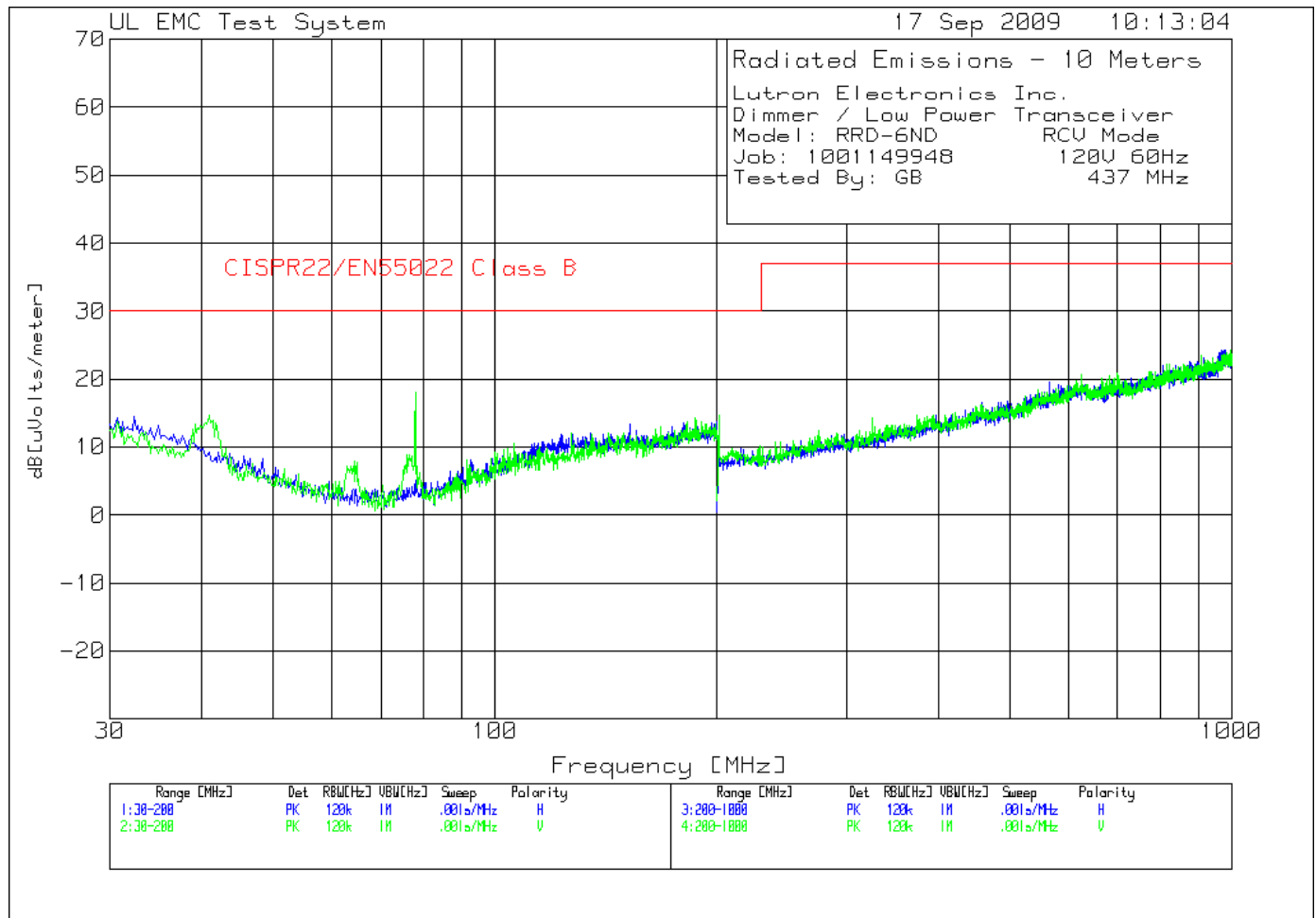
Lutron Electronics Inc.  
 Dimmer / Low Power Transceiver  
 Model: RRD-6ND RCV Mode  
 Job: 1001149948 120V 60Hz  
 Tested By: GB 431 MHz

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
-----											
Horizontal 30 - 200MHz -----											
1	39.019	34.52 pk	-36	14.3	12.82	30	-	-	-	-	-
	Azimuth:119	Height:400	Horz	Margin [dB]		-17.18	-	-	-	-	-
-----											
Vertical 30 - 200MHz -----											
2	41.4014	37.36 pk	-35.9	12.4	13.86	30	-	-	-	-	-
	Azimuth:319	Height:100	Vert	Margin [dB]		-16.14	-	-	-	-	-
3	63.6937	36.55 pk	-35.9	6.2	6.85	30	-	-	-	-	-
	Azimuth:15	Height:100	Vert	Margin [dB]		-23.15	-	-	-	-	-
4	77.1371	37.9 pk	-35.8	6.6	8.7	30	-	-	-	-	-
	Azimuth:358	Height:100	Vert	Margin [dB]		-21.3	-	-	-	-	-
5	77.988	49.13 pk	-35.8	6.8	20.13	30	-	-	-	-	-
	Azimuth:15	Height:100	Vert	Margin [dB]		-9.87	-	-	-	-	-
-----											
Vertical 200 - 1000MHz -----											
6	201.6008	39.18 pk	-34.7	12.1	16.58	30	-	-	-	-	-
	Azimuth:16	Height:101	Vert	Margin [dB]		-13.42	-	-	-	-	-

LIMIT 1: CISPR22/EN55022 Class B  
 LIMIT 2: NONE  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector

**Figure 22 Radiated Emissions Graph**



**Table 27 Radiated Emissions Data Points**

Lutron Electronics Inc.  
 Dimmer / Low Power Transceiver  
 Model: RRD-6ND RCV Mode  
 Job: 1001149948 120V 60Hz  
 Tested By: GB 437 MHz

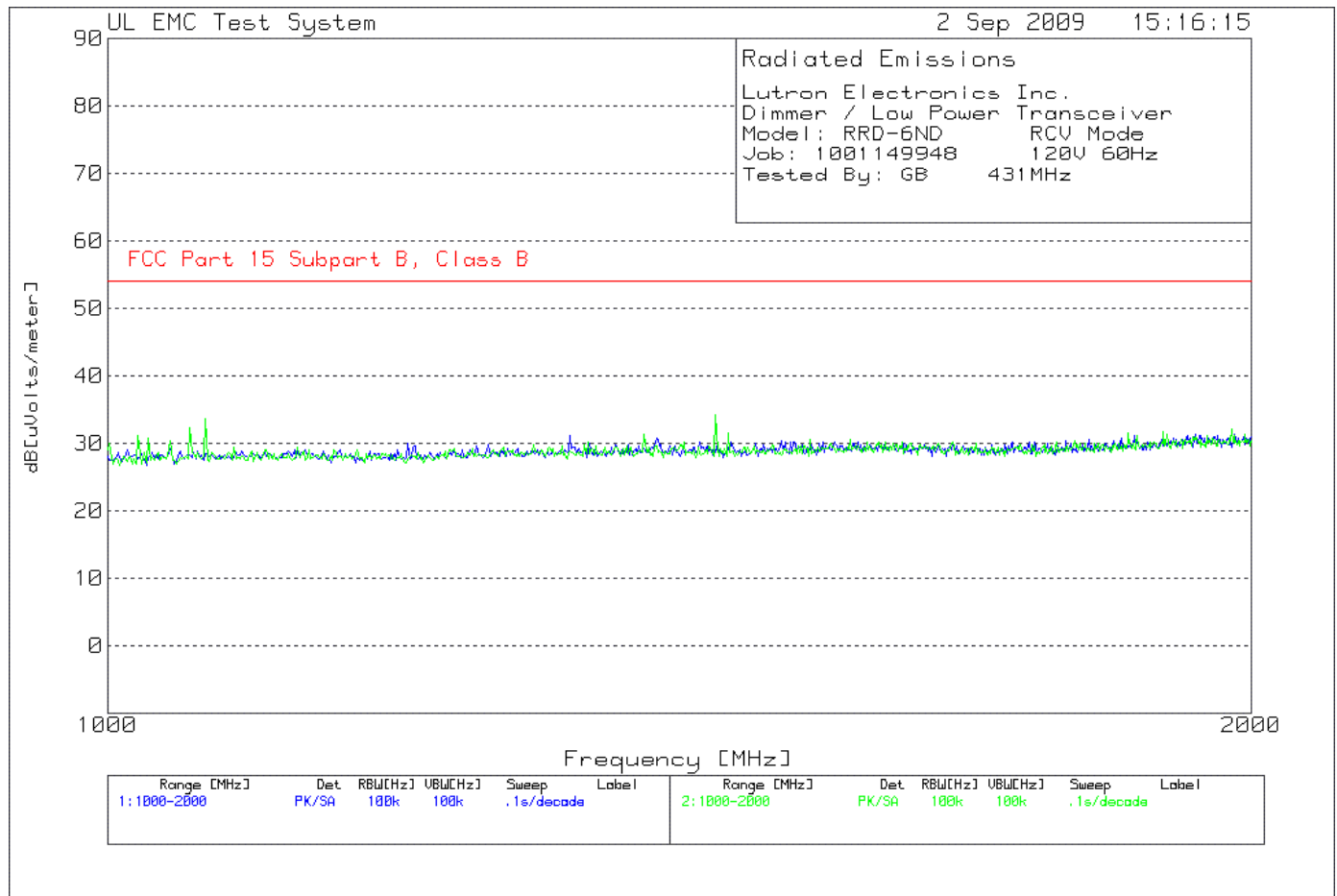
No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 30 - 200MHz -----											
1	32.3824	33.59 pk	-36	16.9	14.49	30	-	-	-	-	-
	Azimuth:159	Height:250	Horz	Margin [dB]		-15.51	-	-	-	-	-
5	152.1822	34.03 pk	-35.4	14.7	13.33	30	-	-	-	-	-
	Azimuth:344	Height:400	Horz	Margin [dB]		-16.67	-	-	-	-	-
6	180.4304	33.35 pk	-35.2	15.5	13.65	30	-	-	-	-	-
	Azimuth:239	Height:400	Horz	Margin [dB]		-16.35	-	-	-	-	-
Vertical 30 - 200MHz -----											
2	40.8909	38.11 pk	-35.9	12.5	14.71	30	-	-	-	-	-
	Azimuth:118	Height:100	Vert	Margin [dB]		-15.29	-	-	-	-	-
3	64.3744	37.81 pk	-35.9	6	7.91	30	-	-	-	-	-
	Azimuth:319	Height:100	Vert	Margin [dB]		-22.09	-	-	-	-	-
4	77.988	47.12 pk	-35.8	6.8	18.12	30	-	-	-	-	-
	Azimuth:344	Height:100	Vert	Margin [dB]		-11.88	-	-	-	-	-

LIMIT 1: CISPR22/EN55022 Class B  
 LIMIT 2: NONE  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 avlg - denotes average log detection



**Figure 23 Radiated Emissions Graph**



**Table 28 Radiated Emissions Data Points**

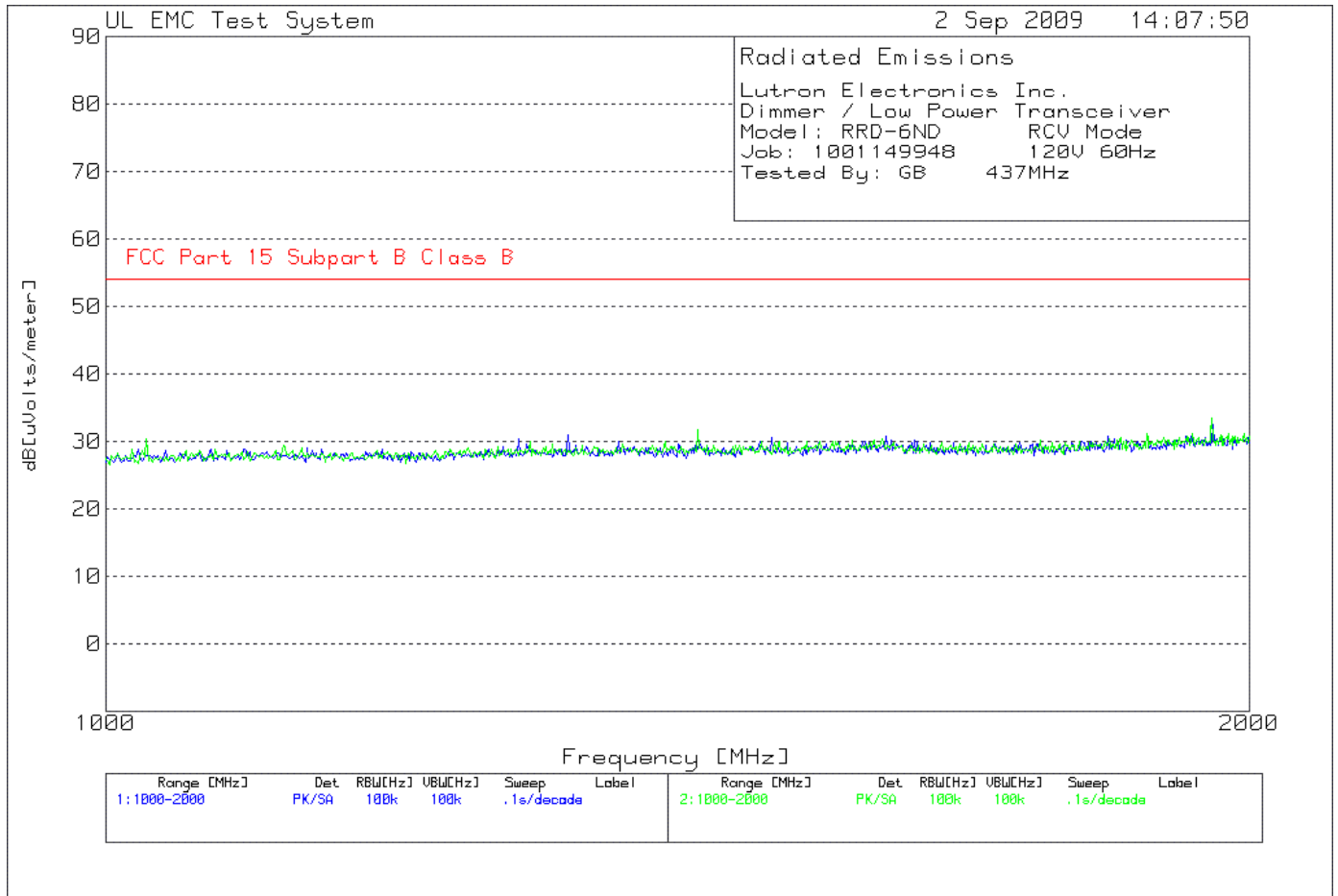
Lutron Electronics Inc.  
 Dimmer / Low Power Transceiver  
 Model: RRD-6ND RCV Mode  
 Job: 1001149948 120V 60Hz  
 Tested By: GB 431MHz

Test No.	Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 1000 - 2000MHz -----											
1	1199.75	55.96 pk	-45.66	19.8	30.1	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-23.9	-	-	-	-	-
2	1323.346	56.22 pk	-45.61	20.5	31.11	54	-	-	-	-	-
		Height:150	Horz	Margin [dB]		-22.89	-	-	-	-	-
3	1394.507	55.78 pk	-45.65	20.7	30.83	54	-	-	-	-	-
		Height:199	Horz	Margin [dB]		-23.17	-	-	-	-	-
Vertical 1000 - 2000MHz -----											
4	1061.174	59.78 pk	-45.77	19.7	33.71	54	-	-	-	-	-
		Height:150	Vert	Margin [dB]		-20.29	-	-	-	-	-
5	1051.186	58.45 pk	-45.76	19.7	32.39	54	-	-	-	-	-
		Height:150	Vert	Margin [dB]		-21.61	-	-	-	-	-
6	1018.727	57.25 pk	-45.54	19.4	31.11	54	-	-	-	-	-
		Height:150	Vert	Margin [dB]		-22.89	-	-	-	-	-
7	1445.693	59.18 pk	-45.6	20.7	34.28	54	-	-	-	-	-
		Height:150	Vert	Margin [dB]		-19.72	-	-	-	-	-
8	1456.929	56.36 pk	-45.63	20.8	31.53	54	-	-	-	-	-
		Height:100	Vert	Margin [dB]		-22.47	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart B, Class B  
 LIMIT 2: NONE  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

PK - Peak detector  
 QP - Quasi-Peak detector  
 av - Linear average detector  
 avlg - Log average detection.

**Figure 24 Radiated Emissions Graph**



**Table 29 Radiated Emissions Data Points**

Lutron Electronics Inc.  
 Dimmer / Low Power Transceiver  
 Model: RRD-6ND RCV Mode  
 Job: 1001149948 120V 60Hz  
 Tested By: GB 437MHz

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
-----											
Horizontal 1000 - 2000MHz -----											
1	1284.644	55.56 pk	-45.59	20.4	30.37	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-23.63	-	-	-	-	-
2	1323.346	56.12 pk	-45.61	20.5	31.01	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-22.99	-	-	-	-	-
3	1604.245	54.94 pk	-45.29	21.2	30.85	54	-	-	-	-	-
		Height:150	Horz	Margin [dB]		-23.15	-	-	-	-	-
4	1956.305	55.37 pk	-44.75	21.9	32.52	54	-	-	-	-	-
		Height:199	Horz	Margin [dB]		-21.48	-	-	-	-	-
-----											
Vertical 1000 - 2000MHz -----											
5	1431.96	56.57 pk	-45.53	20.7	31.74	54	-	-	-	-	-
		Height:100	Vert	Margin [dB]		-22.26	-	-	-	-	-
6	1955.056	56.33 pk	-44.7	21.9	33.53	54	-	-	-	-	-
		Height:200	Vert	Margin [dB]		-20.47	-	-	-	-	-
7	1878.901	54.64 pk	-44.96	21.5	31.18	54	-	-	-	-	-
		Height:200	Vert	Margin [dB]		-22.82	-	-	-	-	-
8	1113.608	55.08 pk	-45.56	20	29.52	54	-	-	-	-	-
		Height:150	Vert	Margin [dB]		-24.48	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart B Class B  
 LIMIT 2: NONE  
 LIMIT 3: NONE  
 LIMIT 4: NONE  
 LIMIT 5: NONE  
 LIMIT 6: NONE

PK - Peak detector  
 QP - Quasi-Peak detector  
 av - Linear average detector  
 avlg - Log average detection.

## Appendix A

### Accreditations and Authorizations



NVLAP Lab code: 100255-0

NVLAP: The National Institute of Standards and Technology (NIST) administers the National Voluntary Laboratory Accreditation Program (NVLAP). NVLAP is comprised of laboratory accreditation programs (LAPs) which are established on the basis of requests and demonstrated need. Each LAP includes specific calibration and/or test standards and related methods and protocols assembled to satisfy the unique needs for accreditation in a field of testing or calibration. NVLAP accredits public and private laboratories based on evaluation of their technical qualifications and competence to carry out specific calibrations or tests. Accreditation criteria are established in accordance with the U.S. Code of Federal Regulations (CFR, Title 15, Part 285), NVLAP Procedures and General Requirements, and encompass the requirements of ISO/IEC 17025. For a full scope listing see <http://ts.nist.gov/ts/htdocs/210/214/scopes/1002550.htm>



FCC: Details of the measurement facilities used for these tests have been filed with the Federal Communications Commission's Laboratory in Columbia, Maryland (Ref. No. 91040).



Industry Canada Industrie Canada

Industry of Canada: Accredited by Industry Canada for performance of radiated measurements. Our test site complies with RSP 100, Issue 7, Section 3.3. File #: IC 2181



VCCI: Accepted as an Associate Member to the VCCI. The measurement facilities detailed in this test report have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. Registration Nos.: (Radiated Emissions) R-797, (Conducted Emissions) C-832, C-83400, and C-81879 and (Conducted Emissions - Telecommunications Ports) T-1582 and T-1583.

Job Number: 1001149948 File Number: MC15896 Page 102 of 102  
Model Number: RRD-6ND  
Client Name: LUTRON ELECTRONICS INC  
FCC ID: JPZ-0062 IC Number: 2851A-JPZ0036, 2851A-JPZ0054, 2851A-JPZ0053



ICASA: ICASA (Independent Communications Authority of South Africa) has appointed UL as a Designated Test Laboratory to test Telecommunications equipment for type approval in compliance with CISPR 22 to assist in fulfilling its mandate under section 54(1) of the Telecommunications Act, 1996 (Act 103 of 1996).



NIST/CAB: Validated by the European Commission as a U.S. Conformity Assessment Body (CAB) of the U.S.-EU Mutual Recognition Agreement (MRA) for the Electromagnetic Compatibility - Council Directive 89/336/EEC, Article 10 (2). Also validated for the Telecommunication Equipment-Council Directive 99/5/EC, Annex III and IV, Identification Number: 0983.

NIST/CAB: Provisioned to act as a U.S. Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the Asia Pacific Economic Cooperation (APEC) MRA between the American Institute in Taiwan (AIT) and the United States. Our laboratory is considered qualified to test equipment subject to the applicable EMC regulations of the Chinese Taipei Bureau of Standards, Metrology and Inspection (BSMI) which require testing to CNS 13438 (CISPR 22).

NIST/CAB: Recognized by the Infocomm Development Authority of Singapore (IDA) under the Asia Pacific Economic Cooperation Mutual Recognition Agreement (APEC MRA). Our laboratory is provisionally designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC MRA. Our scope of designation includes IDA TS EMC (CISPR 22), IEC 61000-4-2, -4-3, -4-4, -4-5, and -4-6