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Job Number:	1001249834
Project Number:	10CA27347
File Number:	MC15832
Date:	24 June 2010
Model:	RR-T10RL
FCC ID: JPZ0072	IC ID: 2851A-JPZ0037

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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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**
Title:
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E-mail: **RSPEHALSKI@LUTRON.COM**

Test Report Date: **24 June 2010**

Product Type: **Wall Mounted Keypad**

Product standards: **FCC Part 15, Subpart C, 15.231**

Model Number: **RR-T10RL**

Sample Serial Number: **Non-serialized Production Unit**

EUT Category: **Periodic Low Power Transmitter**

Testing Start Date: **07 June 2010**

Date Testing Complete: **10 June 2010**

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 RR-T10RL is a table top keypad to be used in Lutron lighting systems to control other lighting elements.

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

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

1.2 Equipment Marking Plate

Not available at time of test.

1.3 Device Configuration During Test

1.3.1 Equipment Used During Test:

Use	Product Type	Manufacturer	Model	Comments
EUT	Wall Mounted Keypad	LUTRON ELECTRONICS INC	RR-T10RL	None
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:

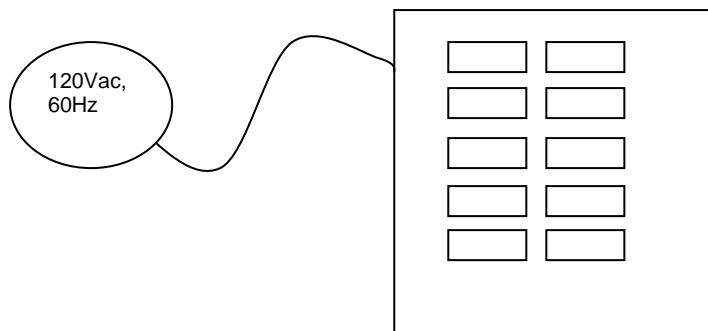
Frequency (MHz)	Description
0.0011	LED PWM
0.0625	Data
0.132	Switching Supply
0.203	IF
1	SPI
3	SPI
26	Clock
26	Crystal
431-437	Fundamental Frequency Range

1.3.4 Power Interface:

Mode # /Rated	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
1	120	-	-	AC – 60Hz	1	None
2	3	-	-	DC	-	Battery

1.4 Block Diagram:

The diagram below illustrates the configuration of the equipment above.



1.5 EUT Configurations

Mode #	Description
1	Stand-alone

1.6 EUT Operation Modes

Mode #	Description
1	Constant xmit at 431MHz, packet mode, AC powered
2	Constant xmit at 437MHz, packet mode, AC powered
3	Constant xmit at 431MHz, packet mode, Battery powered
4	Constant xmit at 437MHz, packet mode, Battery powered
5	Rx mode 431MHz, AC powered
6	Rx mode 437MHz, AC powered
7	Rx mode 431MHz, Battery powered
8	Rx mode 437MHz, Battery powered
9	433MHz, normally operating

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
47 CFR Part 15, Subpart B	Code of Federal Regulations, Part 15, Radio Frequency Devices	2009
47 CFR Part 15, Subpart C	Code of Federal Regulations, Part 15, Radio Frequency Devices	2009
RSS-GEN, Issue 7	General Requirements and Information for the Certification of Radiocommunication Equipment	2007
RSS-210, Issue 2	Low-power License-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment	2007

2.4 Results Summary

This product is considered Class B Receiver and a Periodic Transmitter

Requirement – Test	Result (Compliant / Non-Compliant)*
Cease Operation	Compliant
Conducted Emissions - Mains	Compliant
Occupied Bandwidth	Compliant
99% Power Occupied Bandwidth	Compliant
Pulse Train - Averaging Factor	Compliant
Radiated Emissions - Intentional	Compliant
Radiated Emissions - Unintentional	Compliant

Test Engineer:



Bob DeLisi (Ext.22452)
 Senior Staff Engineer
 International EMC Services
 Conformity Assessment Services-

Reviewer:



Joe Danisi(Ext.23055)
 Lead Engineering Associate
 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:

----- United States -----

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

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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Sample Calculations

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

- Field Strength (dBuV/m) = Meter Reading (dBuV) + AF (dB/m) - Gain (dB) + Cable Loss (dB)
- Conducted Voltage (dBuV) = Meter Reading (dBuV) + Cable Loss (dB) + LISN IL (dB)
- Conducted Current (dBuA) = Meter Reading (dBuV) + Cable Loss (dB) - Transducer Factor (dBohms)

4.1 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; FCC Part 15, Subpart C, 15.231	
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
Limits - Class B		
Frequency (MHz)	Limit (dB μ V)	
	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	Solar	9252-50-R-24-BNC	ME5A-636
Switch Driver	HP	11713A	44397
RF Switch Box	UL	4	44404
Measurement Software	UL	Version 9.3	44736
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	43734
Multimeter	Fluke	83V	44459

Figure 1 Test Setup for Conducted Emissions



Figure 2 Conducted Emissions Graph

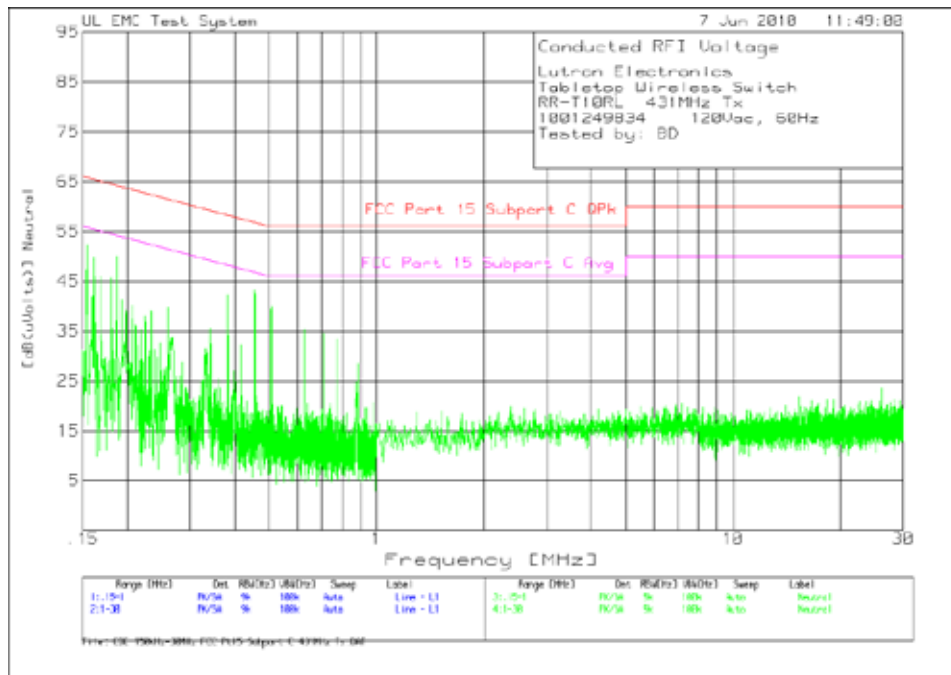
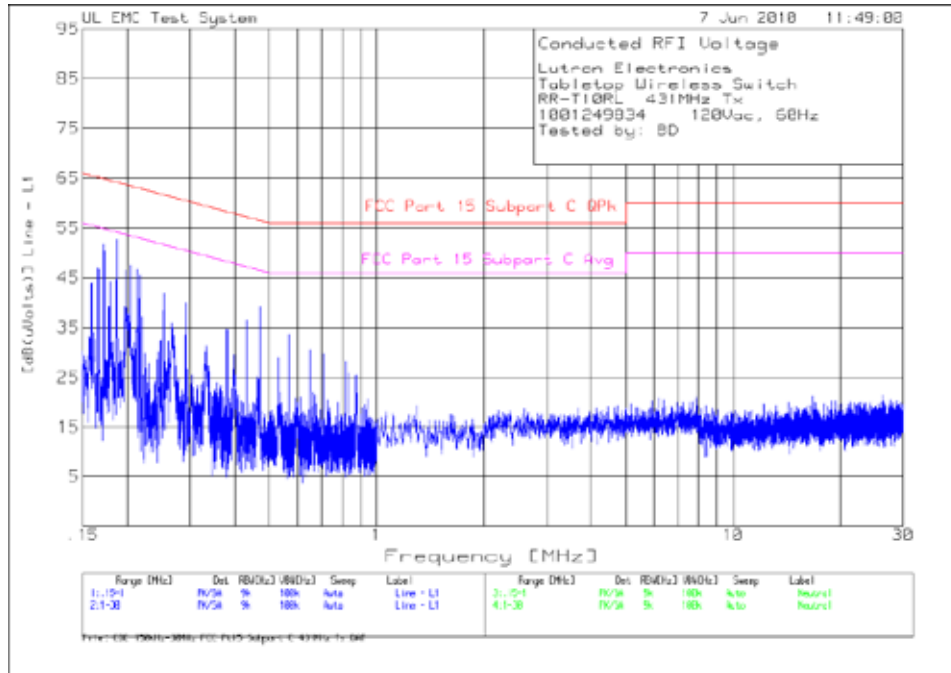


Table 3 Conducted Emissions Data Points

Lutron Electronics
 Tabletop Wireless Switch
 RR-T10RL 431MHz Tx
 1001249834 120Vac, 60Hz
 Tested by: BD

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	.17176	41.67 pk	10	0	51.67	64.9	54.9	-	-	-	-
				Margin [dB]		-13.23	-3.23	-	-	-	-
2	.18673	42.66 pk	10	0	52.66	64.2	54.2	-	-	-	-
				Margin [dB]		-11.54	-1.54	-	-	-	-
3	.20356	37.52 pk	10	0	47.52	63.5	53.5	-	-	-	-
				Margin [dB]		-15.98	-5.98	-	-	-	-
4	.47017	29.14 pk	10	0	39.14	56.5	46.5	-	-	-	-
				Margin [dB]		-17.36	-7.36	-	-	-	-

Neutral .15 - 1MHz -----											
5	.15391	42.26 pk	10.1	0	52.36	65.8	55.8	-	-	-	-
				Margin [dB]		-13.44	-3.44	-	-	-	-
6	.16105	39.73 pk	10.1	0	49.83	65.4	55.4	-	-	-	-
				Margin [dB]		-15.57	-5.57	-	-	-	-
7	.1869	39.94 pk	10	0	49.94	64.2	54.2	-	-	-	-
				Margin [dB]		-14.26	-4.26	-	-	-	-
8	.38261	32.25 pk	10.1	0	42.35	58.2	48.2	-	-	-	-
				Margin [dB]		-15.85	-5.85	-	-	-	-
9	.45487	33.05 pk	10.1	0	43.15	56.8	46.8	-	-	-	-
				Margin [dB]		-13.65	-3.65	-	-	-	-

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 - Linear average detector
 avlg - Average log detection
 AV - average detection
 CAV - CISPR average detection
 RMS - RMS detection
 CRMS - CISPR RMS detection

Lutron Electronics
 Tabletop Wireless Switch
 RR-T10RL 431MHz Tx
 1001249834 120Vac, 60Hz
 Tested by: BD

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										
.17108	21.25 AV	10	0	31.25	64.9	54.9	-	-	-	-
			Margin [dB]:		-33.65	-23.65	-	-	-	-
.18668	19.67 AV	10	0	29.67	64.2	54.2	-	-	-	-
			Margin [dB]:		-34.53	-24.53	-	-	-	-
.2028	24.05 AV	10	0	34.05	63.5	53.5	-	-	-	-
			Margin [dB]:		-29.45	-19.45	-	-	-	-
.46932	4.59 AV	10	0	14.59	56.5	46.5	-	-	-	-
			Margin [dB]:		-41.91	-31.91	-	-	-	-
Neutral .15 - 1MHz										
.15459	22.56 AV	10.1	0	32.66	65.7	55.7	-	-	-	-
			Margin [dB]:		-33.04	-23.04	-	-	-	-
.16036	21.4 AV	10.1	0	31.5	65.4	55.4	-	-	-	-
			Margin [dB]:		-33.9	-23.9	-	-	-	-
.18687	17.37 AV	10	0	27.37	64.2	54.2	-	-	-	-
			Margin [dB]:		-36.83	-26.83	-	-	-	-
.38276	4.35 AV	10.1	0	14.45	58.2	48.2	-	-	-	-
			Margin [dB]:		-43.75	-33.75	-	-	-	-
.45498	2.05 AV	10.1	0	12.15	56.8	46.8	-	-	-	-
			Margin [dB]:		-44.65	-34.65	-	-	-	-

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

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

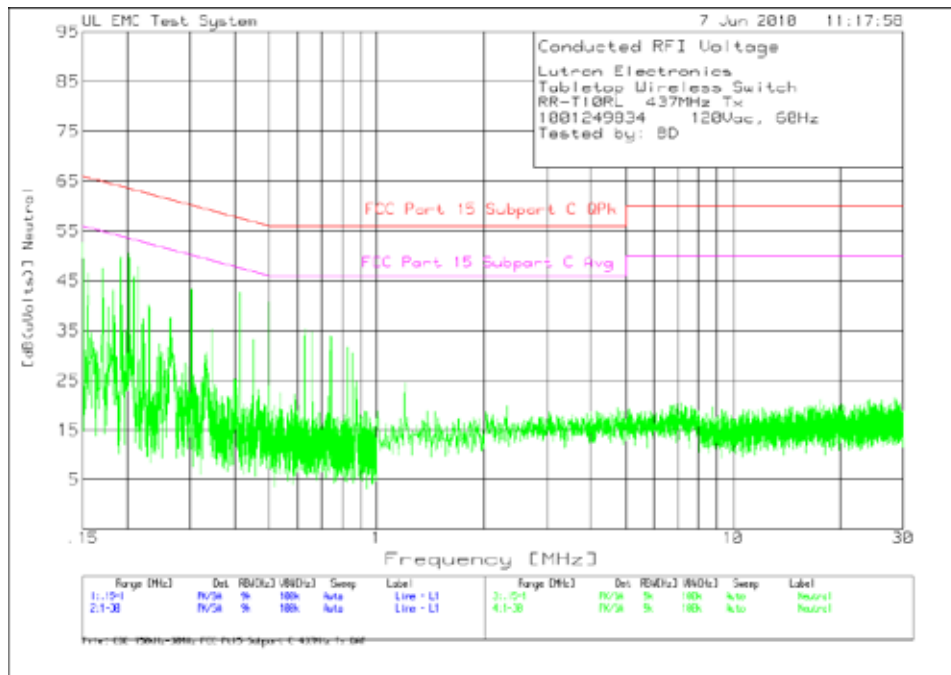
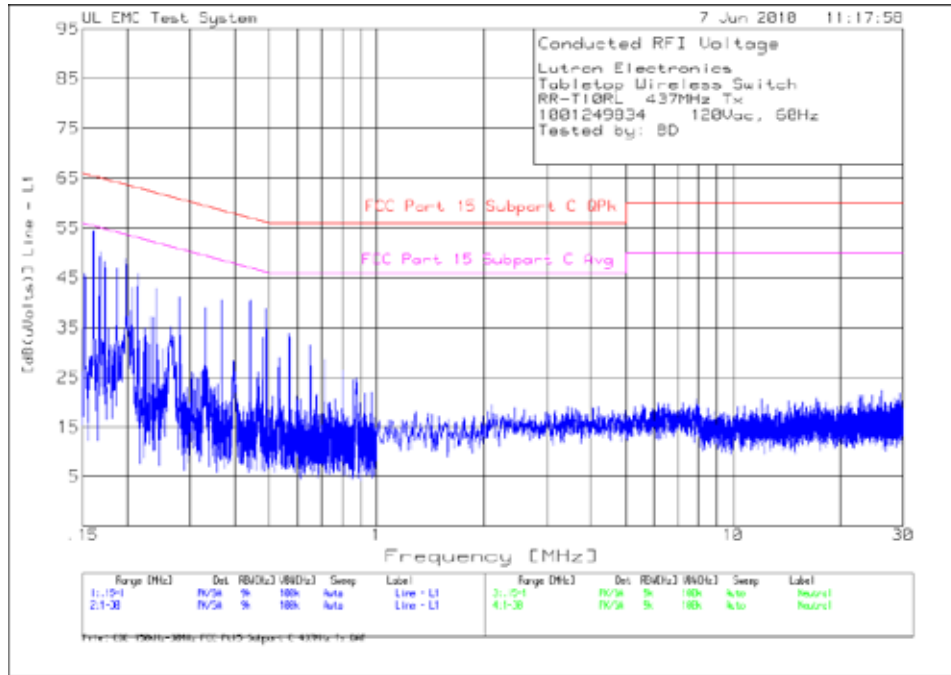


Table 4 Conducted Emissions Data Points

Lutron Electronics
 Tabletop Wireless Switch
 RR-T10RL 437MHz Tx
 1001249834 120Vac, 60Hz
 Tested by: BD

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	.16054	44.54 pk	10	0	54.54	65.4	55.4	-	-	-	-
				Margin [dB]		-10.86	- .86	-	-	-	-
2	.16751	40.1 pk	10	0	50.1	65.1	55.1	-	-	-	-
				Margin [dB]		-15	-5	-	-	-	-
3	.17279	38.35 pk	10	0	48.35	64.8	54.8	-	-	-	-
				Margin [dB]		-16.45	-6.45	-	-	-	-
4	.19863	38.75 pk	10	0	48.75	63.7	53.7	-	-	-	-
				Margin [dB]		-14.95	-4.95	-	-	-	-
5	.44297	30.47 pk	10	0	40.47	57	47	-	-	-	-
				Margin [dB]		-16.53	-6.53	-	-	-	-
6	.49007	28.87 pk	10	0	38.87	56.2	46.2	-	-	-	-
				Margin [dB]		-17.33	-7.33	-	-	-	-

Neutral	.15	- 1MHz									
7	.15017	42.54 pk	10.1	0	52.64	66	56	-	-	-	-
				Margin [dB]		-13.36	-3.36	-	-	-	-
8	.19166	39.89 pk	10	0	49.89	64	54	-	-	-	-
				Margin [dB]		-14.11	-4.11	-	-	-	-
9	.20203	40.42 pk	10	0	50.42	63.5	53.5	-	-	-	-
				Margin [dB]		-13.08	-3.08	-	-	-	-
10	.21478	37.68 pk	10.1	0	47.78	63	53	-	-	-	-
				Margin [dB]		-15.22	-5.22	-	-	-	-
11	.30252	33.24 pk	10.1	0	43.34	60.2	50.2	-	-	-	-
				Margin [dB]		-16.86	-6.86	-	-	-	-
12	.41355	32.48 pk	10.1	0	42.58	57.6	47.6	-	-	-	-
				Margin [dB]		-15.02	-5.02	-	-	-	-
13	.49772	30.56 pk	10.1	0	40.66	56	46	-	-	-	-
				Margin [dB]		-15.34	-5.34	-	-	-	-

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 - Linear average detector
 avlg - Average log detection
 AV - average detection
 CAV - CISPR average detection
 RMS - RMS detection
 CRMS - CISPR RMS detection

Lutron Electronics
 Tabletop Wireless Switch
 RR-T10RL 437MHz Tx
 1001249834 120Vac, 60Hz
 Tested by: BD

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										
.15994	24.73 AV	10	0	34.73	65.5	55.5	-	-	-	-
			Margin [dB]:		-30.77	-20.77	-	-	-	-
.16801	22.41 AV	10	0	32.41	65.1	55.1	-	-	-	-
			Margin [dB]:		-32.69	-22.69	-	-	-	-
.17211	21.47 AV	10	0	31.47	64.9	54.9	-	-	-	-
			Margin [dB]:		-33.43	-23.43	-	-	-	-
.19917	26.74 AV	10	0	36.74	63.6	53.6	-	-	-	-
			Margin [dB]:		-26.86	-16.86	-	-	-	-
.44311	1.9 AV	10	0	11.9	57	47	-	-	-	-
			Margin [dB]:		-45.1	-35.1	-	-	-	-
.49036	-.3 AV	10	0	9.7	56.2	46.2	-	-	-	-
			Margin [dB]:		-46.5	-36.5	-	-	-	-
Neutral .15 - 1MHz										
.15113	22.05 AV	10.1	0	32.15	65.9	55.9	-	-	-	-
			Margin [dB]:		-33.75	-23.75	-	-	-	-
.19244	18.93 AV	10	0	28.93	63.9	53.9	-	-	-	-
			Margin [dB]:		-34.97	-24.97	-	-	-	-
.20146	23.61 AV	10	0	33.61	63.6	53.6	-	-	-	-
			Margin [dB]:		-29.99	-19.99	-	-	-	-
.21414	15.98 AV	10.1	0	26.08	63	53	-	-	-	-
			Margin [dB]:		-36.92	-26.92	-	-	-	-
.30292	9.64 AV	10.1	0	19.74	60.2	50.2	-	-	-	-
			Margin [dB]:		-40.46	-30.46	-	-	-	-
.4131	2.44 AV	10.1	0	12.54	57.6	47.6	-	-	-	-
			Margin [dB]:		-45.06	-35.06	-	-	-	-
.49727	.05 AV	10.1	0	10.15	56	46	-	-	-	-
			Margin [dB]:		-45.85	-35.85	-	-	-	-

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

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

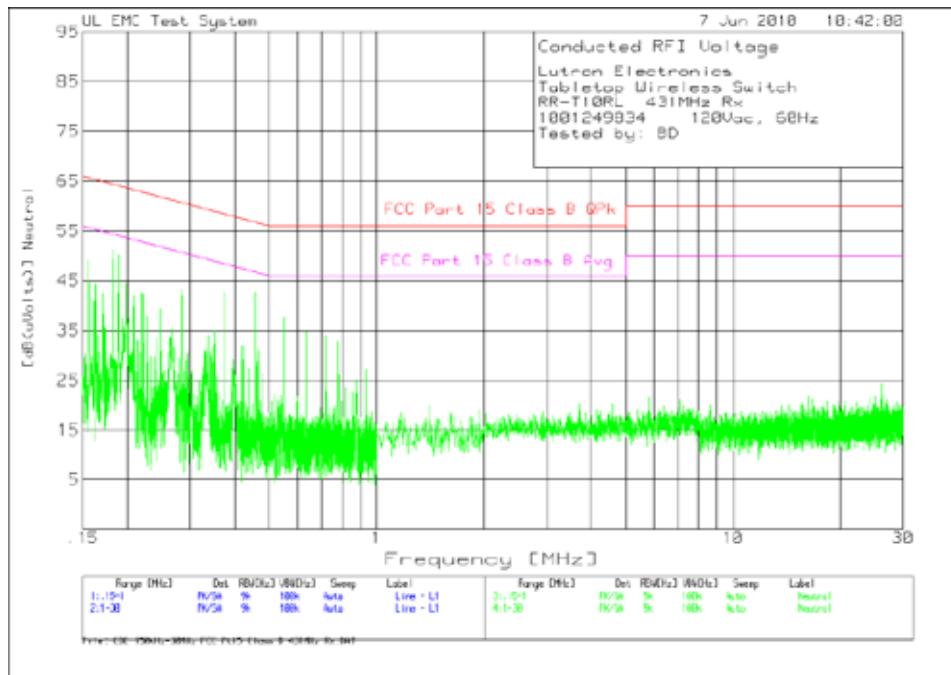
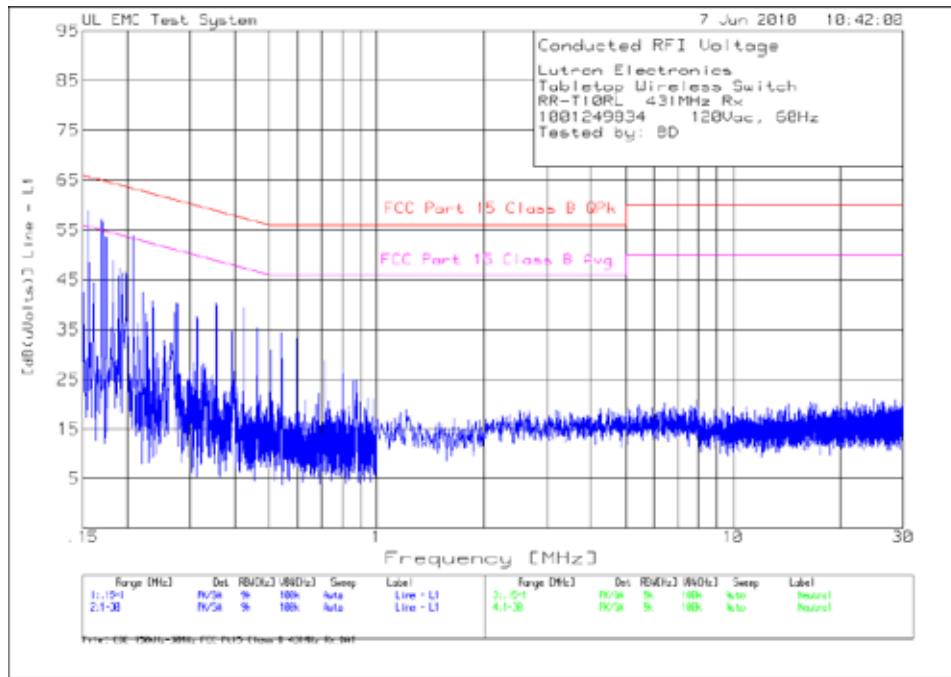


Table 5 Conducted Emissions Data Points

Lutron Electronics
 Tabletop Wireless Switch
 RR-T10RL 431MHz Rx
 1001249834 120Vac, 60Hz
 Tested by: BD

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	.15578	48.88 pk	10	0	58.88	65.7	55.7	-	-	-	-
				Margin [dB]		-6.82	3.18	-	-	-	-
2	.17006	47.23 pk	10	0	57.23	65	55	-	-	-	-
				Margin [dB]		-7.77	2.23	-	-	-	-
3	.17381	43.63 pk	10	0	53.63	64.8	54.8	-	-	-	-
				Margin [dB]		-11.17	-1.17	-	-	-	-
4	.20798	43.74 pk	10	0	53.74	63.3	53.3	-	-	-	-
				Margin [dB]		-9.56	.44	-	-	-	-

Neutral	.15	-	1MHz	-----							
5	.18231	41.14 pk	10	0	51.14	64.4	54.4	-	-	-	-
				Margin [dB]		-13.26	-3.26	-	-	-	-
6	.18877	40.12 pk	10	0	50.12	64.1	54.1	-	-	-	-
				Margin [dB]		-13.98	-3.98	-	-	-	-
7	.28501	33.12 pk	10.1	0	43.22	60.7	50.7	-	-	-	-
				Margin [dB]		-17.48	-7.48	-	-	-	-
8	.37598	32.56 pk	10.1	0	42.66	58.4	48.4	-	-	-	-
				Margin [dB]		-15.74	-5.74	-	-	-	-
9	.45581	32.52 pk	10.1	0	42.62	56.8	46.8	-	-	-	-
				Margin [dB]		-14.18	-4.18	-	-	-	-

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 - Linear average detector
 avlg - Average log detection
 AV - average detection
 CAV - CISPR average detection
 RMS - RMS detection
 CRMS - CISPR RMS detection

Lutron Electronics
 Tabletop Wireless Switch
 RR-T10RL 431MHz Rx
 1001249834 120Vac, 60Hz
 Tested by: BD

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										
.15575	26.51 AV	10	0	36.51	65.7	55.7	-	-	-	-
			Margin [dB]:		-29.19	-19.19	-	-	-	-
.16952	23.74 AV	10	0	33.74	65	55	-	-	-	-
			Margin [dB]:		-31.26	-21.26	-	-	-	-
.17335	21.66 AV	10	0	31.66	64.8	54.8	-	-	-	-
			Margin [dB]:		-33.14	-23.14	-	-	-	-
.20747	20.59 AV	10	0	30.59	63.3	53.3	-	-	-	-
			Margin [dB]:		-32.71	-22.71	-	-	-	-
Neutral .15 - 1MHz										
.18183	20.04 AV	10	0	30.04	64.4	54.4	-	-	-	-
			Margin [dB]:		-34.36	-24.36	-	-	-	-
.18883	17.96 AV	10	0	27.96	64.1	54.1	-	-	-	-
			Margin [dB]:		-36.14	-26.14	-	-	-	-
.28434	7.47 AV	10.1	0	17.57	60.7	50.7	-	-	-	-
			Margin [dB]:		-43.13	-33.13	-	-	-	-
.37683	3.02 AV	10.1	0	13.12	58.3	48.3	-	-	-	-
			Margin [dB]:		-45.18	-35.18	-	-	-	-
.45597	2.12 AV	10.1	0	12.22	56.8	46.8	-	-	-	-
			Margin [dB]:		-44.58	-34.58	-	-	-	-

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

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

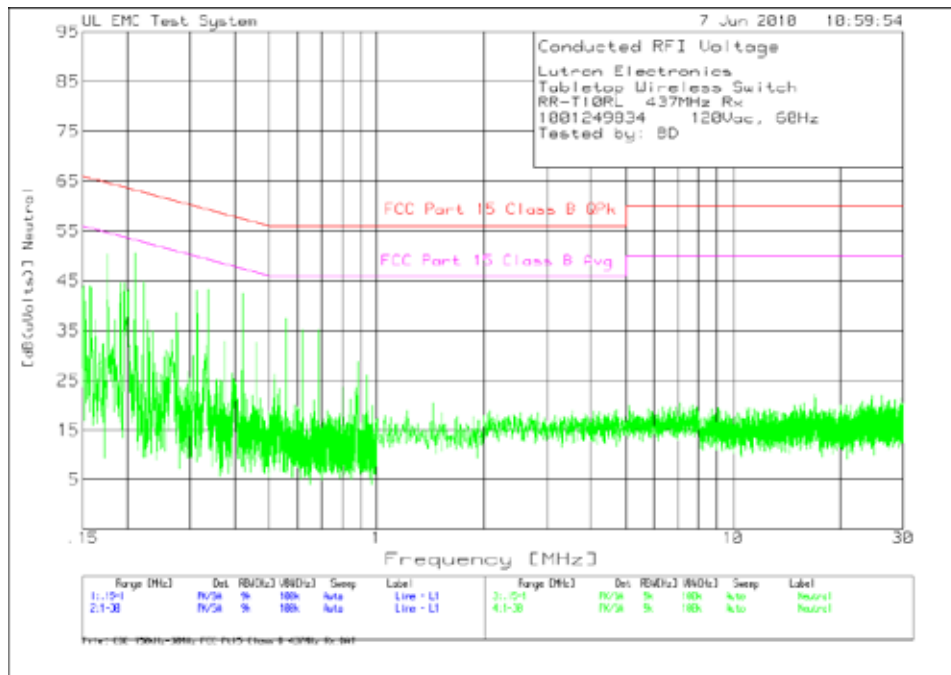
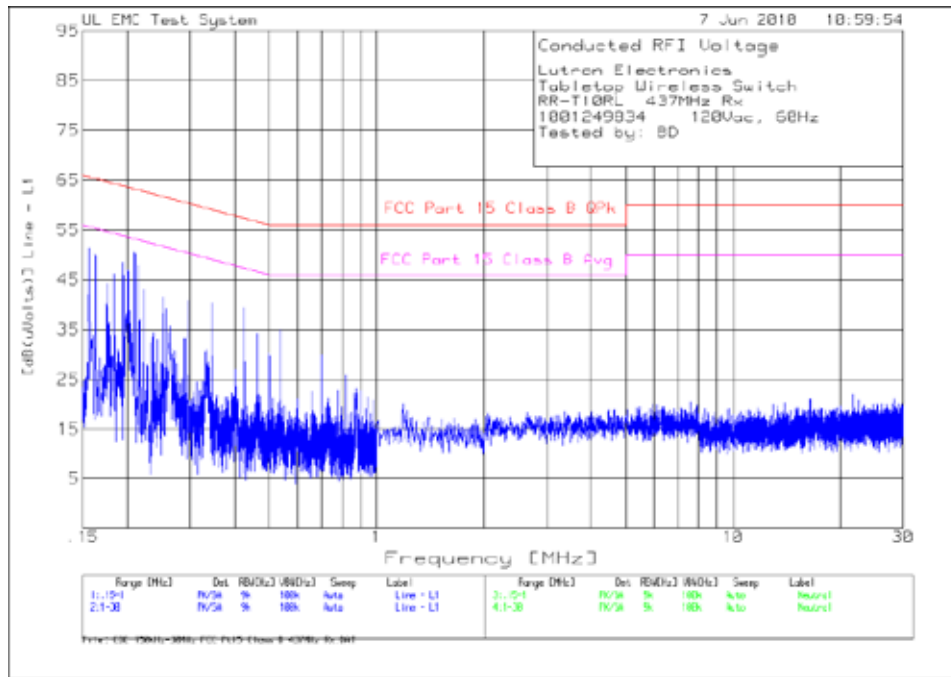


Table 6 Conducted Emissions Data Points

Lutron Electronics
 Tabletop Wireless Switch
 RR-T10RL 437MHz Rx
 1001249834 120Vac, 60Hz
 Tested by: BD

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	.15646	41.37 pk	10	0	51.37	65.6	55.6	-	-	-	-
					Margin [dB]	-14.23	-4.23	-	-	-	-
2	.16292	40.08 pk	10	0	50.08	65.3	55.3	-	-	-	-
					Margin [dB]	-15.22	-5.22	-	-	-	-
3	.19438	38.52 pk	10	0	48.52	63.8	53.8	-	-	-	-
					Margin [dB]	-15.28	-5.28	-	-	-	-
4	.20968	40.41 pk	10	0	50.41	63.2	53.2	-	-	-	-
					Margin [dB]	-12.79	-2.79	-	-	-	-
5	.21461	37.73 pk	10	0	47.73	63	53	-	-	-	-
					Margin [dB]	-15.27	-5.27	-	-	-	-
Neutral .15 - 1MHz -----											
6	.17619	40.14 pk	10.1	0	50.24	64.7	54.7	-	-	-	-
					Margin [dB]	-14.46	-4.46	-	-	-	-
7	.21002	40.32 pk	10.1	0	50.42	63.2	53.2	-	-	-	-
					Margin [dB]	-12.78	-2.78	-	-	-	-
8	.22278	34.84 pk	10.1	0	44.94	62.7	52.7	-	-	-	-
					Margin [dB]	-17.76	-7.76	-	-	-	-
9	.31374	32.83 pk	10.1	0	42.93	59.9	49.9	-	-	-	-
					Margin [dB]	-16.97	-6.97	-	-	-	-
10	.33755	33.09 pk	10	0	43.09	59.3	49.3	-	-	-	-
					Margin [dB]	-16.21	-6.21	-	-	-	-
11	.41984	32.42 pk	10.1	0	42.52	57.5	47.5	-	-	-	-
					Margin [dB]	-14.98	-4.98	-	-	-	-

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 - Linear average detector
 avlg - Average log detection
 AV - average detection
 CAV - CISPR average detection
 RMS - RMS detection
 CRMS - CISPR RMS detection

Lutron Electronics
 Tabletop Wireless Switch
 RR-T10RL 437MHz Rx
 1001249834 120Vac, 60Hz
 Tested by: BD

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										
.15696	26.38 AV	10	0	36.38	65.6	55.6	-	-	-	-
			Margin [dB]:		-29.22	-19.22	-	-	-	-
.16299	23.45 AV	10	0	33.45	65.3	55.3	-	-	-	-
			Margin [dB]:		-31.85	-21.85	-	-	-	-
.19523	24.25 AV	10	0	34.25	63.8	53.8	-	-	-	-
			Margin [dB]:		-29.55	-19.55	-	-	-	-
.20937	19.79 AV	10	0	29.79	63.2	53.2	-	-	-	-
			Margin [dB]:		-33.41	-23.41	-	-	-	-
.21405	17.97 AV	10	0	27.97	63	53	-	-	-	-
			Margin [dB]:		-35.03	-25.03	-	-	-	-
Neutral .15 - 1MHz										
.17684	19.1 AV	10.1	0	29.2	64.6	54.6	-	-	-	-
			Margin [dB]:		-35.4	-25.4	-	-	-	-
.20974	17.31 AV	10.1	0	27.41	63.2	53.2	-	-	-	-
			Margin [dB]:		-35.79	-25.79	-	-	-	-
.22256	13.25 AV	10.1	0	23.35	62.7	52.7	-	-	-	-
			Margin [dB]:		-39.35	-29.35	-	-	-	-
.31419	5.34 AV	10.1	0	15.44	59.9	49.9	-	-	-	-
			Margin [dB]:		-44.46	-34.46	-	-	-	-
.33672	10.4 AV	10	0	20.4	59.3	49.3	-	-	-	-
			Margin [dB]:		-38.9	-28.9	-	-	-	-
.4202	2.05 AV	10.1	0	12.15	57.4	47.4	-	-	-	-
			Margin [dB]:		-45.25	-35.25	-	-	-	-

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

- PK - Peak detector
- QP - Quasi-Peak detector
- av - Linear average detector
- avlg - average log detection
- AV - average detection
- CAV - CISPR average detection
- RMS - RMS detection
- CRMS - CISPR RMS 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 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, 15.215; ANSI C63.10:2009, RSS-GEN
Occupied Bandwidth Limits	
0.25% of Fundamental	

Table 7 Occupied Bandwidth Configuration Settings

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

Table 8 Occupied Bandwidth Spectrum Analyzer Settings

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

Table 9 Occupied Bandwidth Test Equipment

Test Equipment Used			
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	83III	ME5B-305

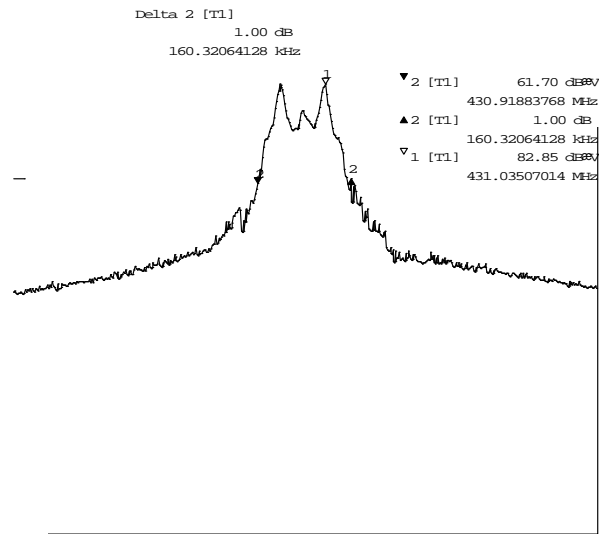
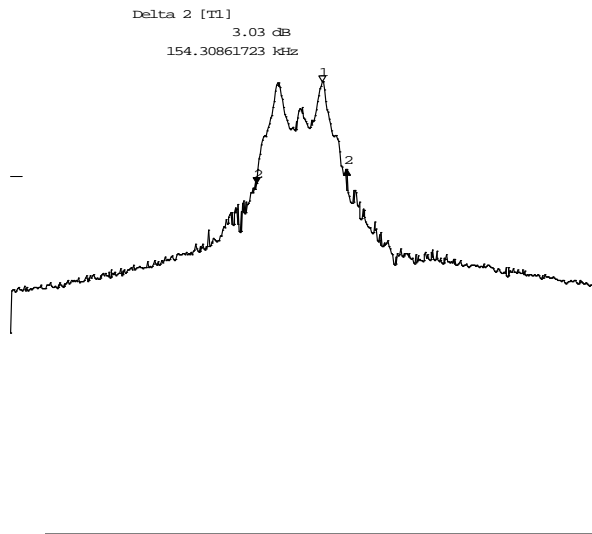
Figure 6 Test Setup for Occupied Bandwidth



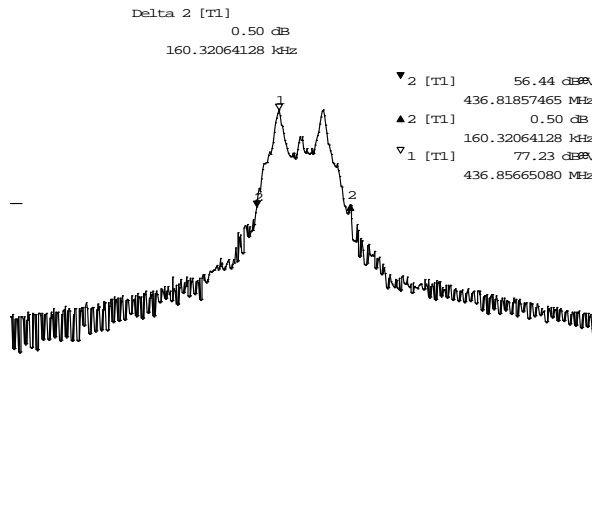
Table 10 Occupied Bandwidth Test Equipment

Power Mode	Frequency (MHz)	20dB OBW (kHz)	99% OBW (kHz)	Limit (MHz)	Result
AC	431	154.3	150.3	1.08	Pass
AC	437	160.3	150.3	1.09	Pass
DC	431	160.3	152.3	1.08	Pass
DC	437	152.3	152.3	1.09	Pass

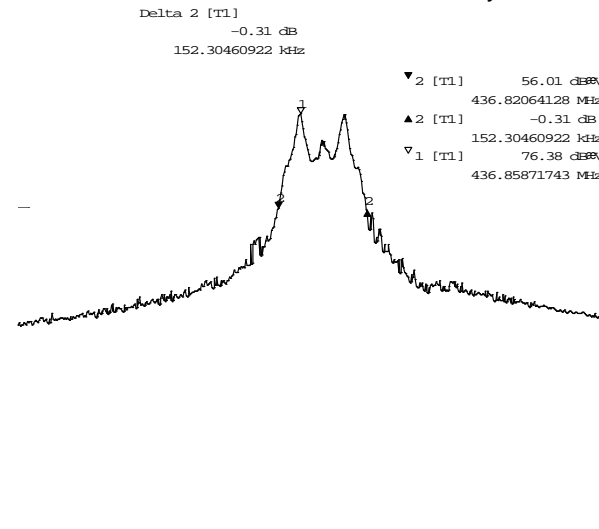
Figure 7 Occupied Bandwidth Graph



20dB OBW 431MHz – AC Power

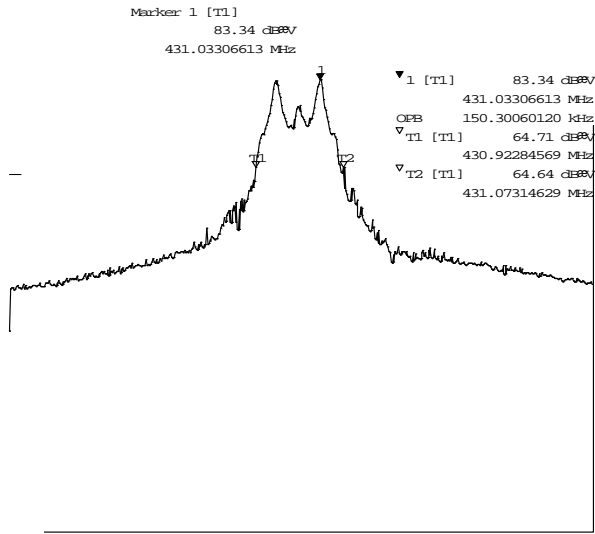


20dB OBW 431MHz – Battery Power

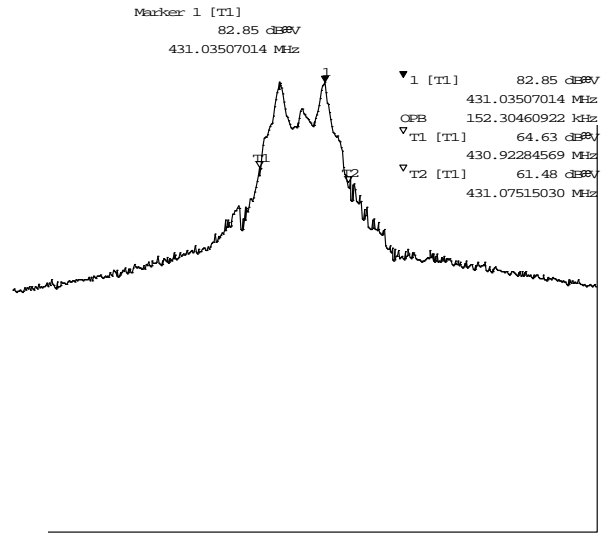


20dB OBW 437MHz – AC Power

20dB OBW 437MHz – Battery Power

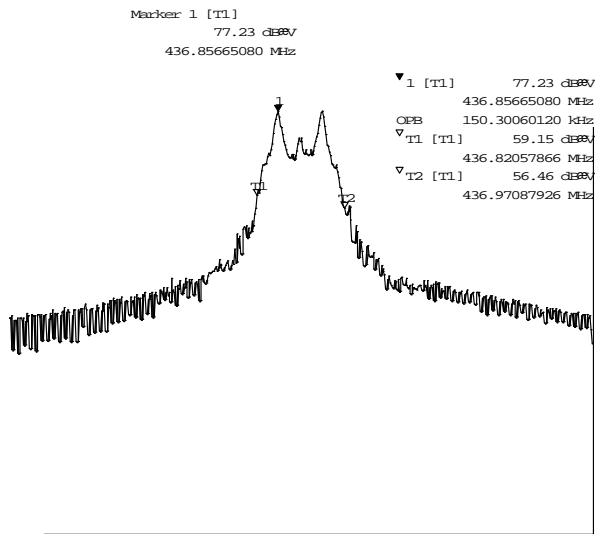


99% OBW 431MHz – AC Power

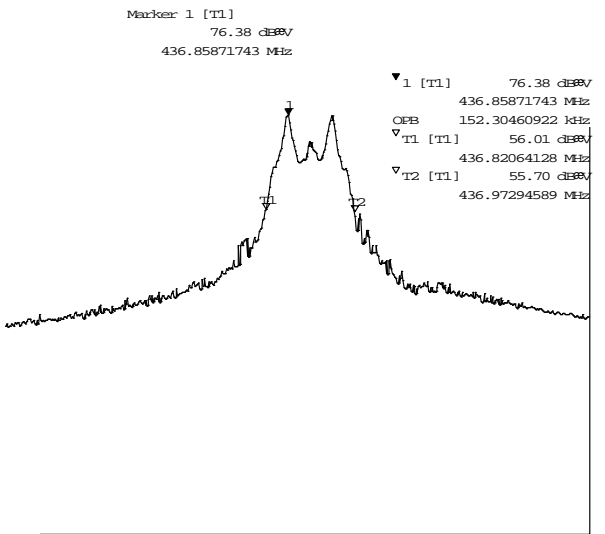


99% OBW 431MHz – Battery Power

Date: 7.JUN.2010 10:04:37



99% OBW 437MHz – AC Power



99% OBW 437MHz – Battery Power

Date: 7.JUN.2010 09:55:51

Date: 7.JUN.2010 10:01:12

4.3 Test Conditions and Results – Cease Operation

Test Description	Measurements were made in the laboratory environment. A Dipole 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, 15.215; ANSI C63.10:2009, RSS-GEN
Cease Operation Limits	
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	9
Supplementary information: None		

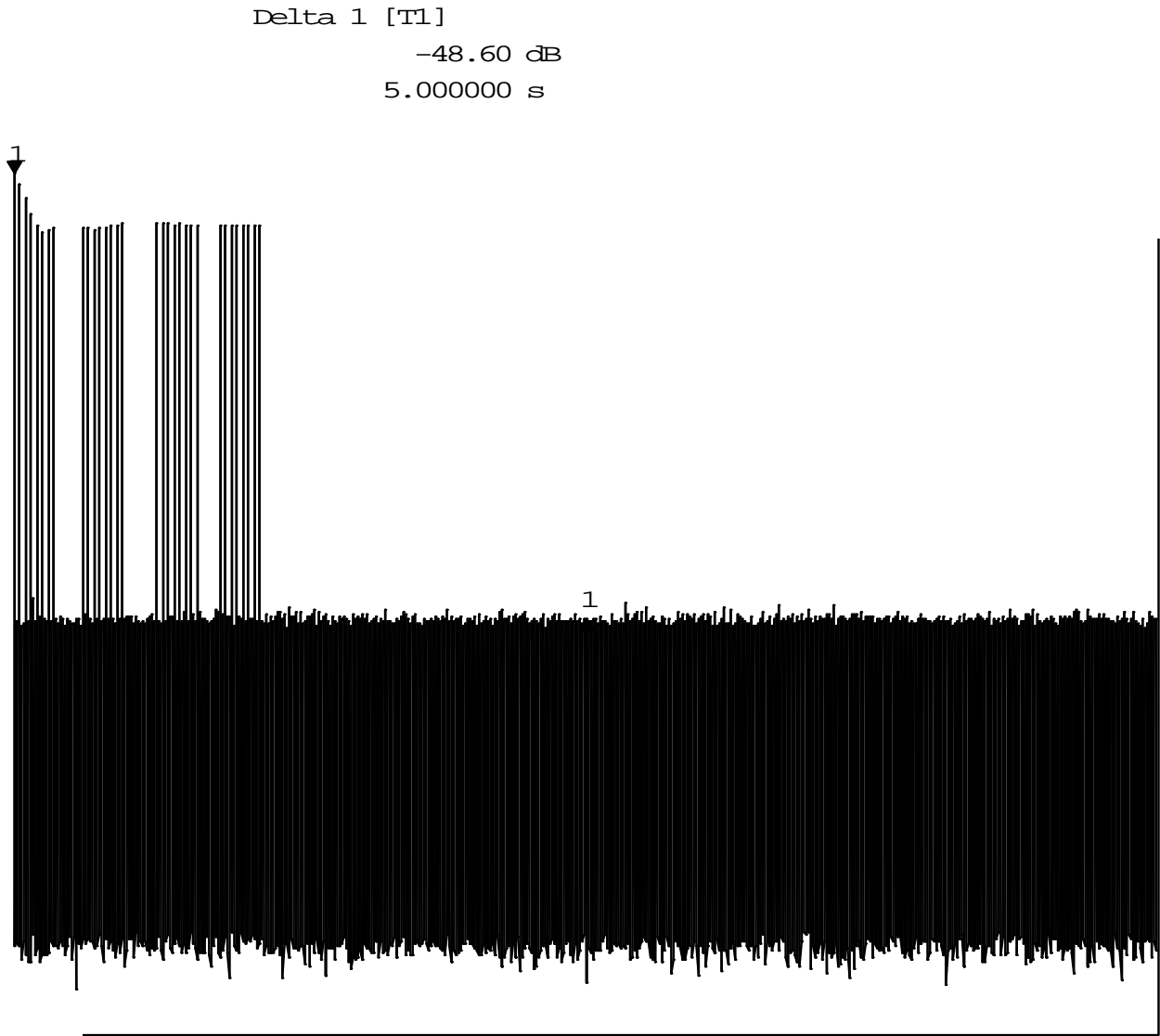
Table 12 Cease Operation Test Equipment

Test Equipment Used			
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	83III	ME5B-305

Figure 8 Test Setup for Cease Operation



Figure 9 Cease Operation Graph



Date: 7.JUN.2010 09:32:33

4.4 Test Conditions and Results – Pulse Train

Test Description	Measurements were made in the laboratory environment. A Dipole 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, ANSI C63.10, RSS-210	
Pulse Train Limits		
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	9
Supplementary information: None		

Table 14 Pulse Train Calculation

Pulse Width (mS)	Total Transmission time or 100ms which ever is lesser	Average Correction Factor (dB)
10.02	100	-19.98

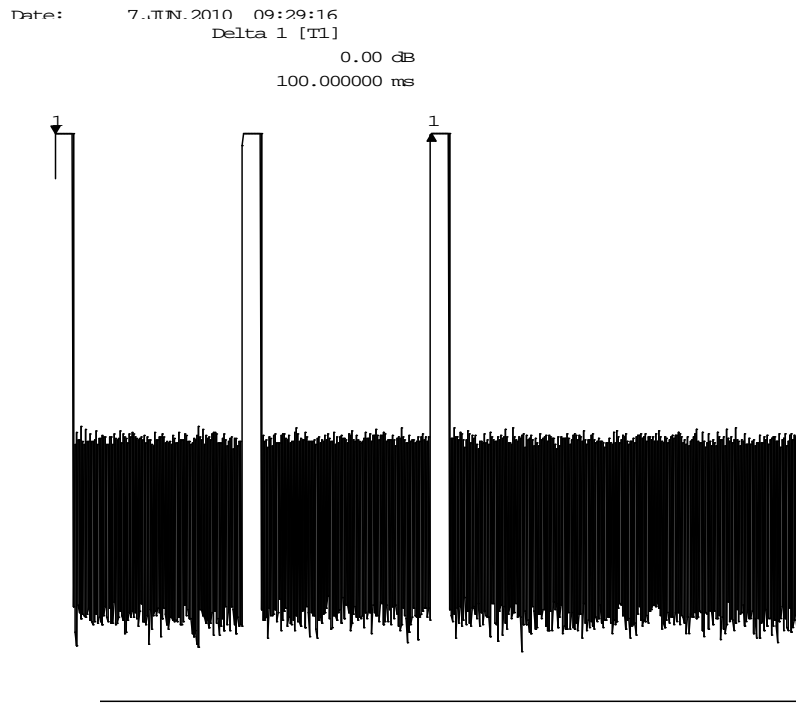
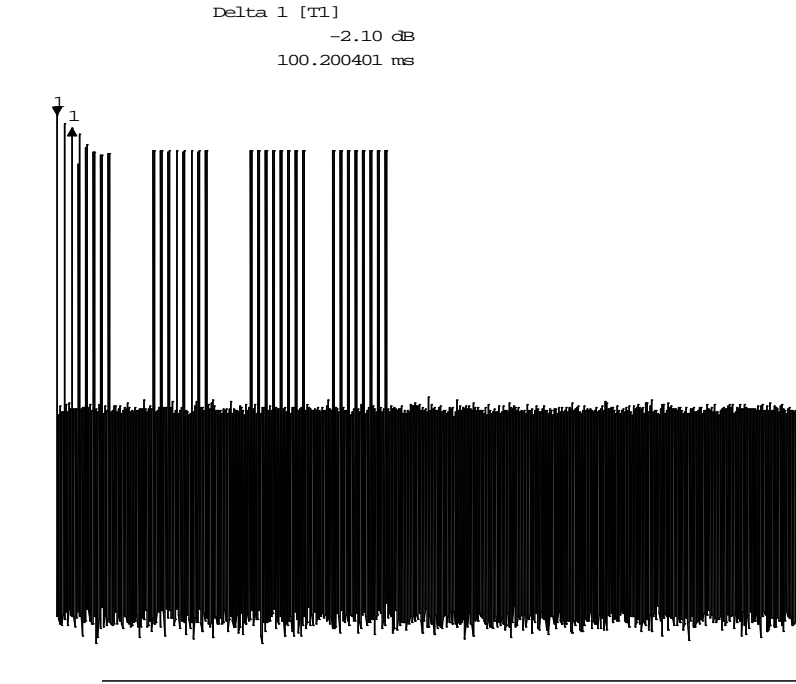
Table 15 Pulse Train Test Equipment

Test Equipment Used			
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	83III	ME5B-305

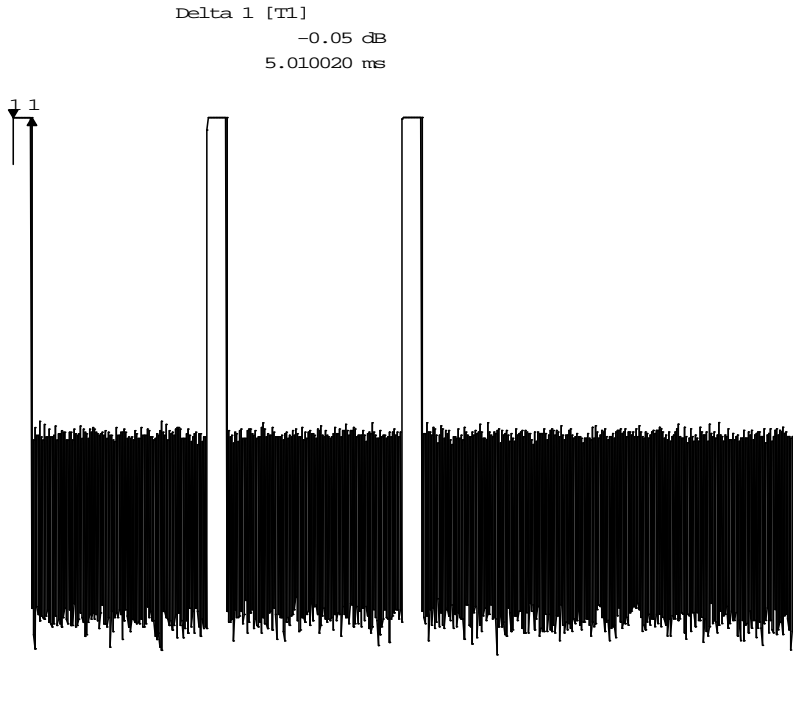
Figure 10 Test Setup for Pulse Train



Figure 11 Pulse Train Graph



Date: 7.JUN.2010 09:30:44



Date: 7.JUN.2010 09:31:37

4.5 Test Conditions and Results – RADIATED EMISSIONS - Intentional

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 3-meters. 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, 15.231; ANSI C63.10:2009, RSS-210		
UL LPG	80-EM-S0029		
	Frequency range	Measurement Point	
Fully configured sample scanned over the following frequency range	30 MHz – 1GHz	(3 meter measurement distance)	
Fully configured sample scanned over the following frequency range	1GHz – 5 GHz	(3 meter measurement distance)	
Limits			
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	-	-
960-1000	54	-	-
1000-10000	-	-	54
431	-	80.7	-
437	-	80.9	-
Harmonics of the Fundamental 431	-	-	60.7
Harmonics of the Fundamental 437	-	-	60.9
Supplementary information: Spurious limits are only applied against products of the transmitter. All other emissions must meet the general limits.			

Table 16 Radiated Emissions EUT Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	1
1	1	2
2	1	3
2	1	4
Supplementary information: None		

Table 17 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
Bias Tee	Miteq	AM-1523-7687	44392
Bias Tee	Miteq	AM-1523-7687	44393
Preamp	Miteq	AM-3A-000110-7687	44391
Preamp	Miteq	AM-3A-000110-7687	44394
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	87V	64386
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
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

Job Number: 1001249834 File Number: MC15832 Page 40 of 95
Model Number: RR-T10RL
Client Name: LUTRON ELECTRONICS INC
FCC ID: JPZ0072 IC ID: 2851A-JPZ0037

Test Equipment Used			
Description	Manufacturer	Model	Identifier
Multimeter	Fluke	83III	ME5B-305

Figure 12 Test setup for Radiated Emissions

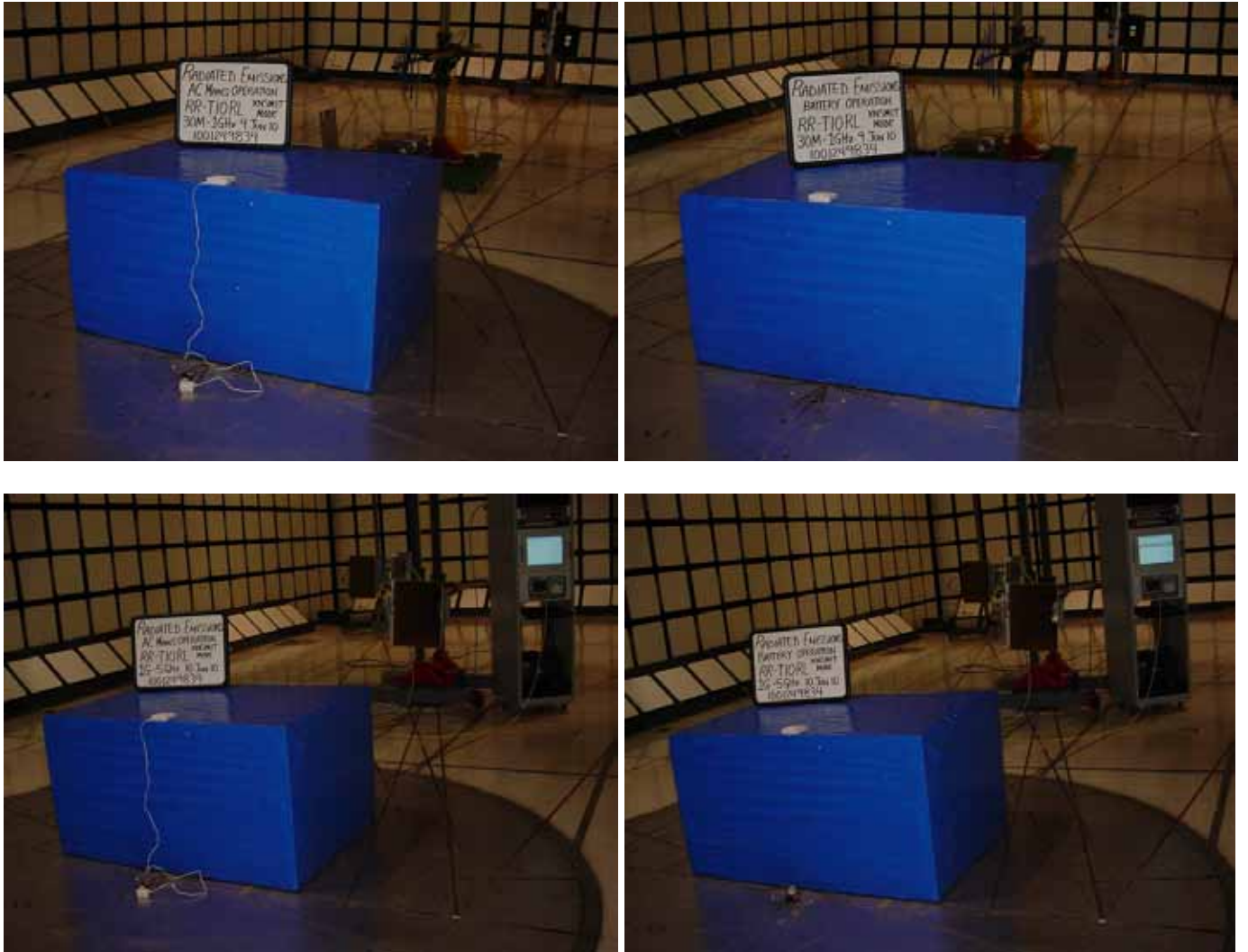


Figure 13 Radiated Emissions Graph

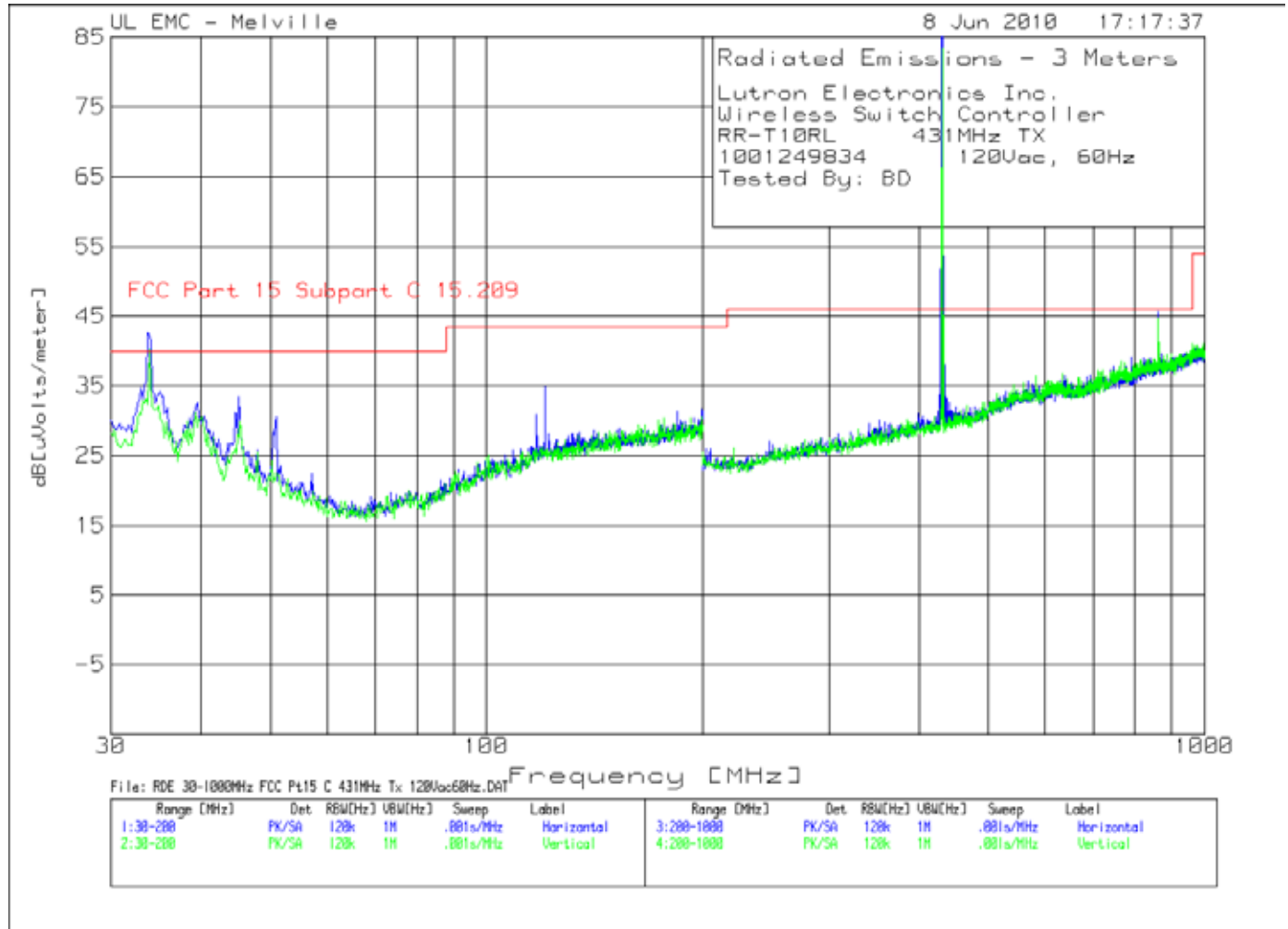


Table 18 Radiated Emissions Data Points

Lutron Electronics Inc.
 Wireless Switch Controller
 RR-T10RL 431MHz TX
 1001249834 120Vac, 60Hz
 Tested By: BD

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 30 - 200MHz -----											
1	33.7437	25.4 pk	.3	16.9	42.6	40	-	-	-	-	-
	Azimuth:156	Height:100	Horz	Margin [dB]		2.6	-	-	-	-	-

Vertical 30 - 200MHz -----											
2	33.9139	24.53 pk	.3	15.4	40.23	40	-	-	-	-	-
	Azimuth:209	Height:100	Vert	Margin [dB]		.23	-	-	-	-	-

Horizontal 200 - 1000MHz -----											
3	430.9155	72.53 pk	1.2	16.7	90.43	46	-	-	-	-	-
	Azimuth:260	Height:200	Horz	Margin [dB]		44.43	-	-	-	-	-
4	862.3312	21.19 pk	1.6	22.9	45.69	46	-	-	-	-	-
	Azimuth:358	Height:100	Horz	Margin [dB]		-.31	-	-	-	-	-

Vertical 200 - 1000MHz -----											
5	430.9155	65.88 pk	1.2	16.3	83.38	46	-	-	-	-	-
	Azimuth:262	Height:200	Vert	Margin [dB]		37.38	-	-	-	-	-
6	862.3312	19.97 pk	1.6	23.1	44.67	46	-	-	-	-	-
	Azimuth:223	Height:200	Vert	Margin [dB]		-1.33	-	-	-	-	-

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 - Linear average detector
 avlg - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

Lutron Electronics Inc.
 Wireless Switch Controller
 RR-T10RL 431MHz TX
 1001249834 120Vac, 60Hz
 Tested By: BD

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 30 - 200MHz										
34.0846	16.69 QP	.4	16.8	33.89	40	-	-	-	-	-
Azimuth: 0	Height:100	Horz	Margin [dB]:		-6.11	-	-	-	-	-
Vertical 30 - 200MHz										
34.0225	16.48 QP	.4	15.3	32.18	40	-	-	-	-	-
Azimuth: 15	Height:100	Vert	Margin [dB]:		-7.82	-	-	-	-	-
Horizontal 200 - 1000MHz										
431.0246	71.32 PK	1.2	16.7	69.24*	-	80.7	-	-	-	-
Azimuth: 6	Height:100	Horz	Margin [dB]:		-	-11.46	-	-	-	-
861.9014	30.04 PK	1.6	22.9	54.54	-	60.7	-	-	-	-
Azimuth: 306	Height:100	Horz	Margin [dB]:		-	-6.16	-	-	-	-
Vertical 200 - 1000MHz										
431.0255	68.14 PK	1.2	16.3	65.66*	-	80.7	-	-	-	-
Azimuth: 19	Height:120	Vert	Margin [dB]:		-	-15.04	-	-	-	-
861.9134	25.04 PK	1.6	23.1	49.74	-	60.7	-	-	-	-
Azimuth: 125	Height:114	Vert	Margin [dB]:		-	-10.96	-	-	-	-
*Duty Cycle correction factor of -19.98 applied. See Section 4.4 for calculations.										

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
 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 14 Radiated Emissions Graph

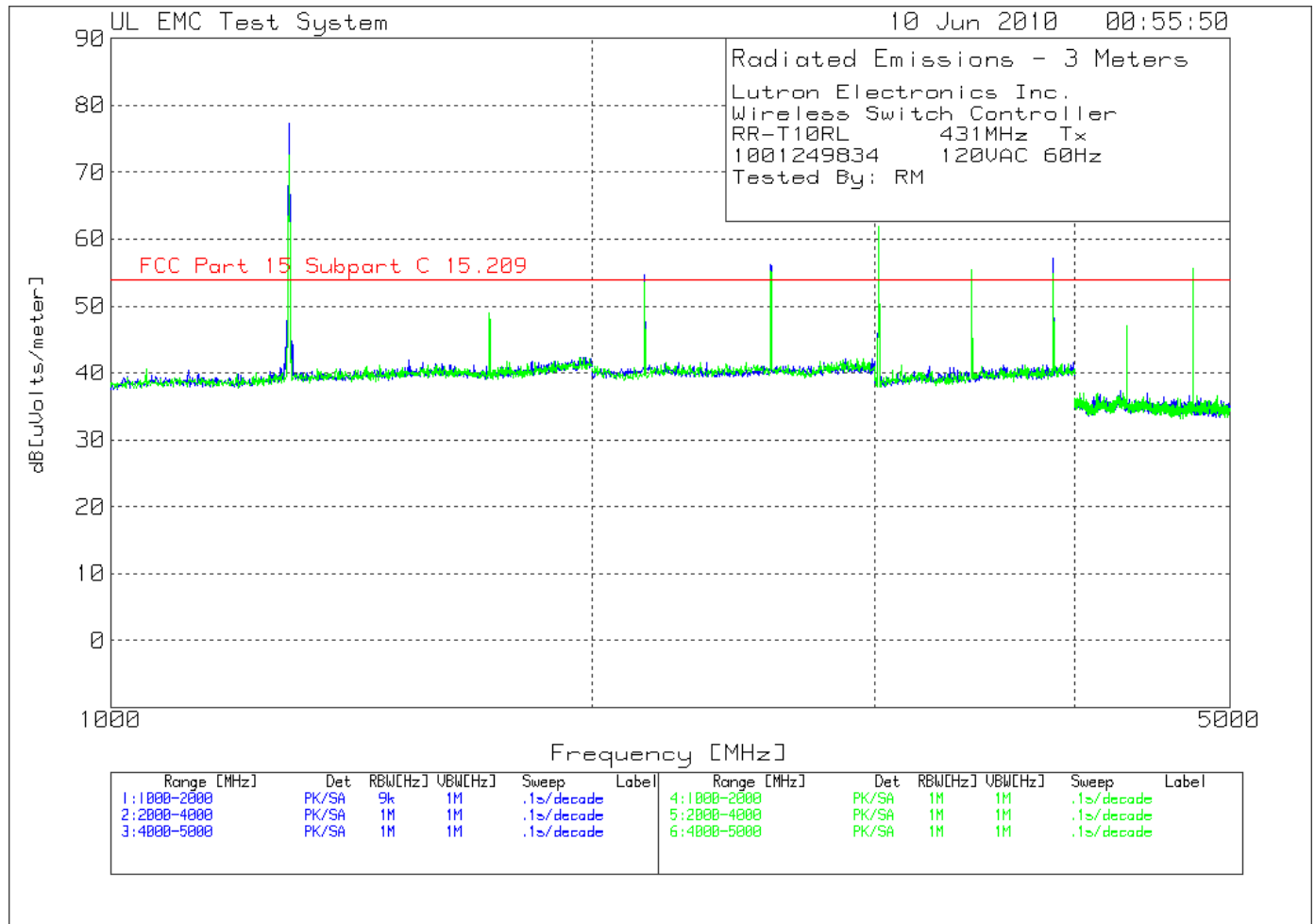


Table 19 Radiated Emissions Data Points

Lutron Electronics Inc.
 Wireless Switch Controller
 RR-T10RL 431MHz Tx
 1001249834 120VAC 60Hz
 Tested By: RM

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	1292.135	102.14 pk	-45.13	20.4	77.41	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]	20.41	54	-	-	-	-	-
2	1724.095	72.11 pk	-44.38	20.8	48.53	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]	-5.47	54	-	-	-	-	-

Horizontal 2000 - 4000MHz -----											
3	2154.806	77.44 pk	-44.21	21.4	54.63	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]	0.63	54	-	-	-	-	-
4	2584.27	78.34 pk	-43.49	21.3	56.15	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]	2.15	54	-	-	-	-	-
5	3018.727	82.62 pk	-42.94	21.5	61.18	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]	7.18	54	-	-	-	-	-
6	3448.19	72.52 pk	-42.96	22.1	51.66	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]	-2.34	54	-	-	-	-	-
7	3880.15	77.45 pk	-42.94	22.6	57.11	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]	3.11	54	-	-	-	-	-

Horizontal 4000 - 5000MHz -----											
8	4309.484	69.69 pk	-52.64	27.7	44.75	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]	-9.25	54	-	-	-	-	-
9	4741.265	77.92 pk	-53.29	27.2	51.83	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]	-2.17	54	-	-	-	-	-

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 - 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 -----											
10	1292.135	97.3 pk	-45.13	20.4	72.57	54	-	-	-	-	-
		Height:250 Vert		Margin [dB]		18.57	-	-	-	-	-
11	1724.095	72.59 pk	-44.38	20.8	49.01	54	-	-	-	-	-
		Height:250 Vert		Margin [dB]		-4.99	-	-	-	-	-
Vertical 2000 - 4000MHz -----											
12	2154.806	76.72 pk	-44.21	21	53.51	54	-	-	-	-	-
		Height:249 Vert		Margin [dB]		-0.49	-	-	-	-	-
13	2584.27	77.3 pk	-43.49	21.5	55.31	54	-	-	-	-	-
		Height:249 Vert		Margin [dB]		1.31	-	-	-	-	-
14	3018.727	83.14 pk	-42.94	21.7	61.9	54	-	-	-	-	-
		Height:249 Vert		Margin [dB]		7.9	-	-	-	-	-
15	3448.19	76.14 pk	-42.96	22.2	55.38	54	-	-	-	-	-
		Height:249 Vert		Margin [dB]		1.38	-	-	-	-	-
16	3880.15	75.17 pk	-42.94	22.6	54.83	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		0.83	-	-	-	-	-
Vertical 4000 - 5000MHz -----											
17	4310.316	71.86 pk	-52.63	27.8	47.03	54	-	-	-	-	-
		Height:250 Vert		Margin [dB]		-6.97	-	-	-	-	-
18	4741.265	81.79 pk	-53.29	27.1	55.6	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		1.6	-	-	-	-	-

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 - Linear average detector
 avlg - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

Job Number: 1001249834 File Number: MC15832 Page 48 of 95
 Model Number: RR-T10RL
 Client Name: LUTRON ELECTRONICS INC
 FCC ID: JPZ0072 IC ID: 2851A-JPZ0037

Lutron Electronics Inc.
 Wireless Switch Controller
 RR-T10RL 431MHz Tx
 1001249834 120VAC 60Hz
 Tested By: RM

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										
1292.85	104.08 PK	-45.15	20.4	59.45*	-	60.7	-	-	-	-
Azimuth: 344		Height:376		Horz		Margin [dB]:		-	-1.25	-
1724.125	74.98 PK	-44.38	20.8	51.4	-	60.7	-	-	-	-
Azimuth: 185		Height:373		Horz		Margin [dB]:		-	-8.12	-
Horizontal 2000 - 4000MHz										
2154.775	79.83 PK	-44.21	21.4	57.02	-	60.7	-	-	-	-
Azimuth: 314		Height:375		Horz		Margin [dB]:		-	-8.12	-
2586.2	78.58 PK	-43.49	21.3	56.39	-	60.7	-	-	-	-
Azimuth: 221		Height:370		Horz		Margin [dB]:		-	-4.31	-
3017.2625	84.39 PK	-42.94	21.5	38.66*	-	60.7	-	-	-	-
Azimuth: 221		Height:353		Horz		Margin [dB]:		-	16.62	-
3448.278	74.38 PK	-42.96	22.1	53.52	-	60.7	-	-	-	-
Azimuth: 351		Height:372		Horz		Margin [dB]:		-	-7.18	-
3878.64	78.07 PK	-42.93	22.6	37.76*	54	-	-	-	-	-
Azimuth: 301		Height:304		Horz		Margin [dB]:		-16.24	-	-
Horizontal 4000 - 5000MHz										
4310.3625	72 PK	-52.63	27.7	47.07	54	-	-	-	-	-
Azimuth: 186		Height:293		Horz		Margin [dB]:		-6.93	-	-
4741.3625	81.05 PK	-53.29	27.2	21.24*	54	-	-	-	-	-
Azimuth: 155		Height:337		Horz		Margin [dB]:		-32.79	-	-

*Duty Cycle correction factor of -19.98 applied. See Section 4.4 for calculations.

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

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 1000 - 2000MHz										
1292.905	98.27 PK	-45.16	20.5	53.63*	-	60.7	-	-	-	-
Azimuth: 136	Height:338	Vert		Margin [dB]:	-	-7.07	-	-	-	-
1724.1625	76.27 PK	-44.38	20.8	52.69	-	60.7	-	-	-	-
Azimuth: 275	Height:340	Vert		Margin [dB]:	-	-8.01	-	-	-	-
Vertical 2000 - 4000MHz										
2154.8125	79.33 PK	-44.21	21	56.12	-	60.7	-	-	-	-
Azimuth: 286	Height:348	Vert		Margin [dB]:	-	-12.59	-	-	-	-
2586.288	77.62 PK	-43.49	21.5	55.63	-	60.7	-	-	-	-
Azimuth: 281	Height:390	Vert		Margin [dB]:	-	-17.66	-	-	-	-
3017.2375	84.78 PK	-42.94	21.7	43.56*	-	60.7	-	-	-	-
Azimuth: 85	Height:321	Vert		Margin [dB]:	-	-17.14	-	-	-	-
3448.275	77.46 PK	-42.96	22.2	56.7	-	60.7	-	-	-	-
Azimuth: 259	Height:295	Vert		Margin [dB]:	-	-4	-	-	-	-
3878.618	78.58 PK	-42.93	22.6	38.27*	54	-	-	-	-	-
Azimuth: 97	Height:291	Vert		Margin [dB]:	-15.73	-	-	-	-	-
Vertical 4000 - 5000MHz										
4310.41	73.31 PK	-52.63	27.8	48.48	54	-	-	-	-	-
Azimuth: 62	Height:335	Vert		Margin [dB]:	-5.52	-	-	-	-	-
4741.4	82.24 PK	-53.29	27.1	36.07*	54	-	-	-	-	-
Azimuth: 58	Height:290	Vert		Margin [dB]:	-17.93	-	-	-	-	-

*Duty Cycle correction factor of -19.98 applied. See Section 4.4 for calculations.

- 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 15 Radiated Emissions Graph

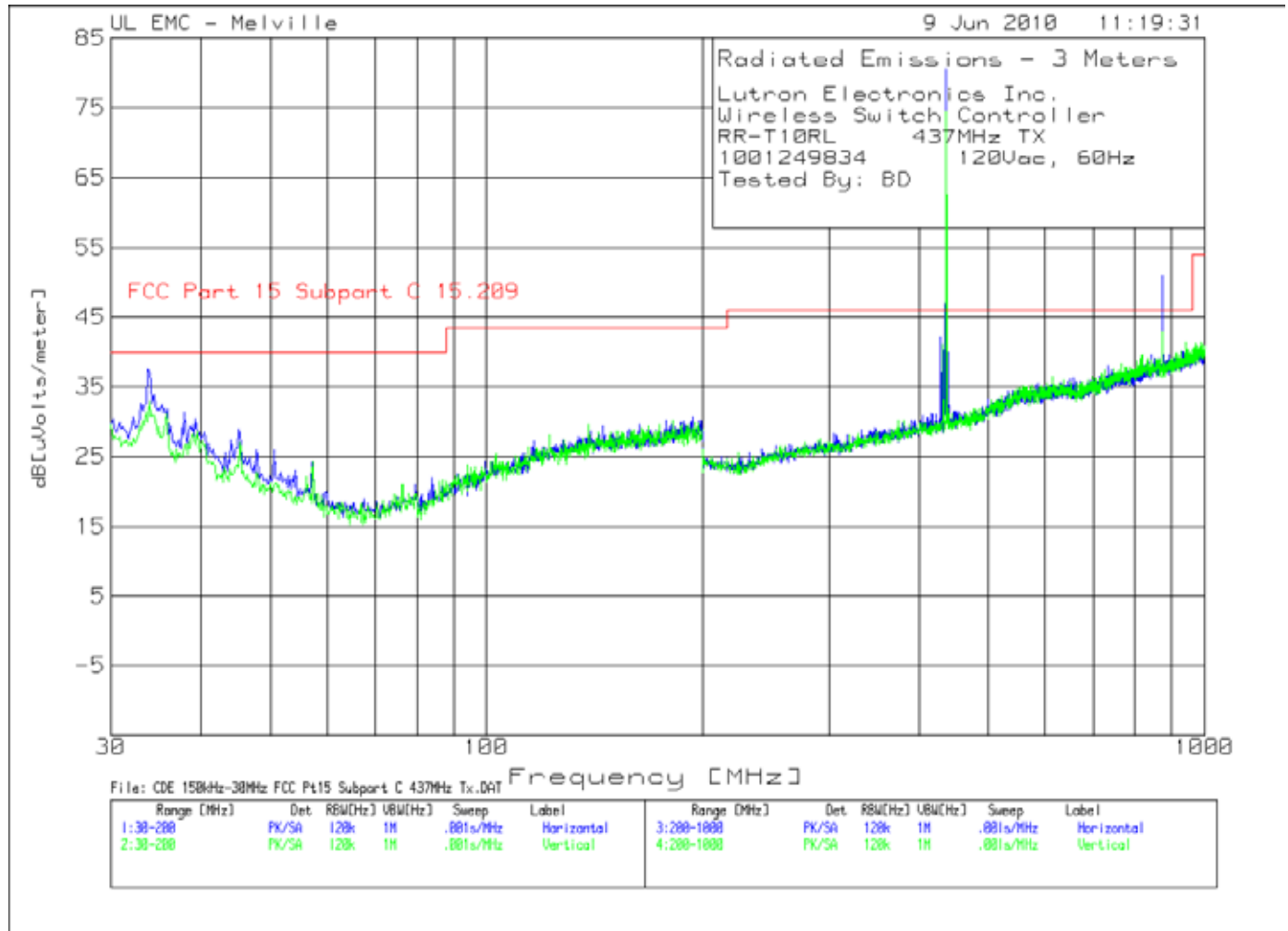


Table 20 Radiated Emissions Data Points

Lutron Electronics Inc.
 Wireless Switch Controller
 RR-T10RL 437MHz TX
 1001249834 120Vac, 60Hz
 Tested By: BD

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 -----											
9	33.7437	20.33 pk	.3	16.9	37.53	40	-	-	-	-	-
	Azimuth:71	Height:100	Horz	Margin [dB]		-2.47	-	-	-	-	-

Horizontal 200 - 1000MHz -----											
1	429.3147	24.21 pk	1.2	16.7	42.11	46	-	-	-	-	-
	Azimuth:162	Height:100	Horz	Margin [dB]		-3.89	-	-	-	-	-
2	435.3177	28.92 pk	1.1	16.9	46.92	46	-	-	-	-	-
	Azimuth:227	Height:300	Horz	Margin [dB]		.92	-	-	-	-	-
3	436.9185	62.5 pk	1.1	17	80.6	46	-	-	-	-	-
	Azimuth:260	Height:300	Horz	Margin [dB]		34.6	-	-	-	-	-
4	438.5193	26.04 pk	1.2	17.1	44.34	46	-	-	-	-	-
	Azimuth:31	Height:300	Horz	Margin [dB]		-1.66	-	-	-	-	-
5	873.937	26.41 pk	1.6	22.9	50.91	46	-	-	-	-	-
	Azimuth:359	Height:100	Horz	Margin [dB]		4.91	-	-	-	-	-

Vertical 200 - 1000MHz -----											
6	431.3157	23.51 pk	1.2	16.4	41.11	46	-	-	-	-	-
	Azimuth:357	Height:100	Vert	Margin [dB]		-4.89	-	-	-	-	-
7	436.9185	56.91 pk	1.1	16.6	74.61	46	-	-	-	-	-
	Azimuth:358	Height:300	Vert	Margin [dB]		28.61	-	-	-	-	-
8	873.937	18.23 pk	1.6	23.1	42.93	46	-	-	-	-	-
	Azimuth:290	Height:100	Vert	Margin [dB]		-3.07	-	-	-	-	-

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 - Linear average detector
 avlg - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

Lutron Electronics Inc.
 Wireless Switch Controller
 RR-T10RL 437MHz TX
 1001249834 120Vac, 60Hz
 Tested By: BD

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 30 - 200MHz										
34.3687	16.48 QP	.3	16.7	33.48	40	-	-	-	-	-
Azimuth: 57 Height:100 Horz					Margin [dB]:	-6.52	-	-	-	-
Horizontal 200 - 1000MHz										
430.1492	16.48 QP	1.2	16.7	34.38	46	-	-	-	-	-
Azimuth: 0 Height:100 Horz					Margin [dB]:	-11.62	-	-	-	-
435.588	16.9 QP	1.1	16.9	34.9	46	-	-	-	-	-
Azimuth: 12 Height:101 Horz					Margin [dB]:	-11.1	-	-	-	-
438.206	17.3 QP	1.1	17.1	35.5	46	-	-	-	-	-
Azimuth: 22 Height:209 Horz					Margin [dB]:	-10.5	-	-	-	-
436.8473	69.93 PK	1.1	17	68.05*	-	80.9	-	-	-	-
Azimuth: 32 Height:100 Horz					Margin [dB]:	-12.85	-	-	-	-
873.7108	27.26 PK	1.6	22.9	51.76	-	60.9	-	-	-	-
Azimuth: 96 Height:100 Horz					Margin [dB]:	-9.14	-	-	-	-
Vertical 200 - 1000MHz										
431.9294	16.48 QP	1.2	16.4	34.08	46	-	-	-	-	-
Azimuth: 0 Height:131 Vert					Margin [dB]:	-11.92	-	-	-	-
436.8509	68.74 PK	1.1	16.6	66.46*	-	80.9	-	-	-	-
Azimuth: 247 Height:154 Vert					Margin [dB]:	-14.44	-	-	-	-
873.7072	23.93 PK	1.6	23.1	48.63	-	60.9	-	-	-	-
Azimuth: 287 Height:139 Vert					Margin [dB]:	-12.27	-	-	-	-

*Duty Cycle correction factor of -19.98 applied. See Section 4.4 for calculations.

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 16 Radiated Emissions Graph

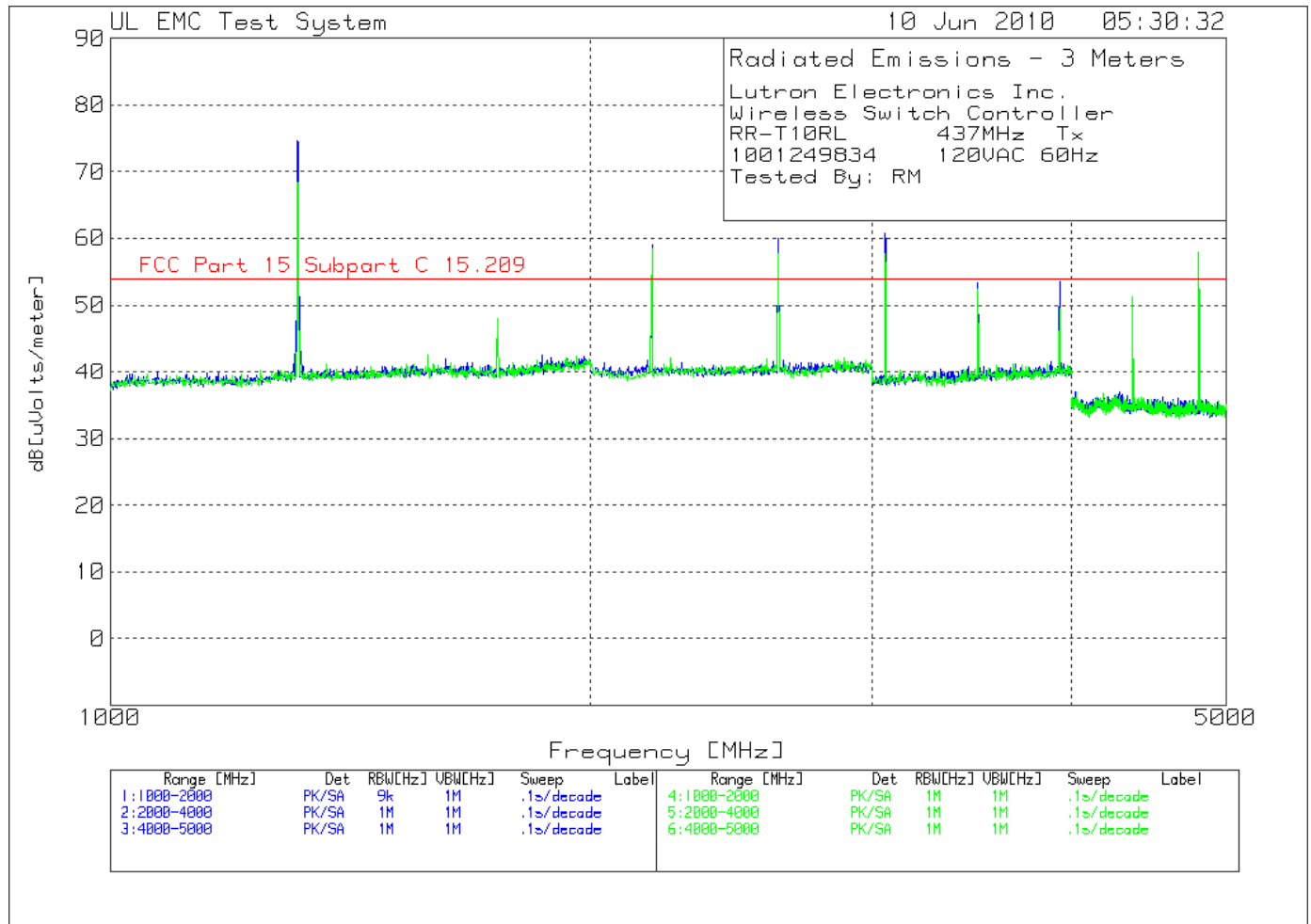


Table 21 Radiated Emissions Data Points

Lutron Electronics Inc.
 Wireless Switch Controller
 RR-T10RL 437MHz Tx
 1001249834 120VAC 60Hz
 Tested By: RM

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	1309.613	99.22 pk	-45.08	20.5	74.64	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		20.64	-	-	-	-	-
2	1747.815	71.1 pk	-44.35	20.8	47.55	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]		-6.45	-	-	-	-	-

Horizontal 2000 - 4000MHz -----											
3	2184.769	81.48 pk	-44	21.5	58.98	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]		4.98	-	-	-	-	-
4	2619.226	82.19 pk	-43.54	21.4	60.05	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]		6.05	-	-	-	-	-
5	3058.677	82.01 pk	-42.92	21.6	60.69	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]		6.69	-	-	-	-	-
6	3495.63	74.08 pk	-42.87	22.2	53.41	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]		-0.59	-	-	-	-	-
7	3932.584	73.74 pk	-42.81	22.7	53.63	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]		-0.37	-	-	-	-	-

Horizontal 4000 - 5000MHz -----											
8	4368.552	71.2 pk	-52.71	27.6	46.09	54	-	-	-	-	-
		Height:249	Horz	Margin [dB]		-7.91	-	-	-	-	-
9	4805.324	77.51 pk	-53.55	27.1	51.06	54	-	-	-	-	-
		Height:249	Horz	Margin [dB]		-2.94	-	-	-	-	-

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 - 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 -----											
10	1309.613	93 pk	-45.08	20.5	68.42	54	-	-	-	-	-
		Height:250 Vert		Margin [dB]		14.42	-	-	-	-	-
11	1747.815	71.63 pk	-44.35	20.8	48.08	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		-5.92	-	-	-	-	-
Vertical 2000 - 4000MHz -----											
12	2184.769	81.28 pk	-44	21.2	58.48	54	-	-	-	-	-
		Height:249 Vert		Margin [dB]		4.48	-	-	-	-	-
13	2621.723	79.89 pk	-43.56	21.4	57.73	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		3.73	-	-	-	-	-
14	3058.677	78.79 pk	-42.92	21.8	57.67	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		3.67	-	-	-	-	-
15	3495.63	72.79 pk	-42.87	22.4	52.32	54	-	-	-	-	-
		Height:249 Vert		Margin [dB]		-1.68	-	-	-	-	-
16	3932.584	69.56 pk	-42.81	22.7	49.45	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		-4.55	-	-	-	-	-
Vertical 4000 - 5000MHz -----											
17	4368.552	76.18 pk	-52.71	27.7	51.17	54	-	-	-	-	-
		Height:249 Vert		Margin [dB]		-2.83	-	-	-	-	-
18	4806.156	84.12 pk	-53.55	27.3	57.87	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		3.87	-	-	-	-	-

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 - Linear average detector
 avlg - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

Lutron Electronics Inc.
 Wireless Switch Controller
 RR-T10RL 437MHz Tx
 1001249834 120VAC 60Hz
 Tested By: RM

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										
1310.803	102.81 PK	-45.09	20.5	58.24*	-	60.9	-	-	-	-
Azimuth: 353 Height:364 Horz					Margin [dB]:	-2.66	-	-	-	-
1747.7475	72.77 PK	-44.35	20.8	49.22	-	60.9	-	-	-	-
Azimuth: 78 Height:244 Horz					Margin [dB]:	-11.68	-	-	-	-
Horizontal 2000 - 4000MHz										
2184.28	83.12 PK	-44.02	21.5	40.62*	-	60.9	-	-	-	-
Azimuth: 289 Height:374 Horz					Margin [dB]:	-20.28	-	-	-	-
2621.1225	82.05 PK	-43.56	21.4	39.91	-	60.9	-	-	-	-
Azimuth: 219 Height:270 Horz					Margin [dB]:	-20.99	-	-	-	-
3058.575	82.69 PK	-42.92	21.6	41.39*	-	60.9	-	-	-	-
Azimuth: 210 Height:269 Horz					Margin [dB]:	-19.51	-	-	-	-
3495.49	74.85 PK	-42.87	22.2	54.18	-	60.9	-	-	-	-
Azimuth: 333 Height:303 Horz					Margin [dB]:	-6.72	-	-	-	-
3932.44	74.65 PK	-42.81	22.7	34.56*	54	-	-	-	-	-
Azimuth: 299 Height:251 Horz					Margin [dB]:	-19.44	-	-	-	-
Horizontal 4000 - 5000MHz										
4369.1	73.11 PK	-52.71	27.6	48	54	-	-	-	-	-
Azimuth: 120 Height:383 Horz					Margin [dB]:	-6	-	-	-	-
4806.275	81.81 PK	-53.55	27.1	35.38*	54	-	-	-	-	-
Azimuth: 158 Height:327 Horz					Margin [dB]:	-16.12	-	-	-	-

*Duty Cycle correction factor of -19.98 applied. See Section 4.4 for calculations.

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

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 1000 - 2000MHz										
1310.65	96.15 PK	-45.08	20.5	51.59*	-	60.9	-	-	-	-
Azimuth: 270	Height:369	Vert		Margin [dB]:	-	-9.31	-	-	-	-
1747.625	72.56 PK	-44.35	20.8	49.01	-	60.9	-	-	-	-
Azimuth: 225	Height:361	Vert		Margin [dB]:	-	-11.89	-	-	-	-
Vertical 2000 - 4000MHz										
2184.3625	83.01 PK	-44.02	21.2	60.19	-	60.9	-	-	-	-
Azimuth: 253	Height:347	Vert		Margin [dB]:	-	-0.71	-	-	-	-
2621.375	81.05 PK	-43.56	21.4	58.89	-	60.9	-	-	-	-
Azimuth: 99	Height:336	Vert		Margin [dB]:	-	-2.01	-	-	-	-
3058.5	79.86 PK	-42.92	21.8	58.74	-	60.9	-	-	-	-
Azimuth: 184	Height:363	Vert		Margin [dB]:	-	-2.16	-	-	-	-
3495.1375	79.7 PK	-42.87	22.4	59.23	-	60.9	-	-	-	-
Azimuth: 272	Height:359	Vert		Margin [dB]:	-	-1.67	-	-	-	-
3931.7625	70.02 PK	-42.82	22.7	49.9	54	-	-	-	-	-
Azimuth: 66	Height:138	Vert		Margin [dB]:	-4.1	-	-	-	-	-
Vertical 4000 - 5000MHz										
4369.075	74.69 PK	-52.71	27.7	49.68	54	-	-	-	-	-
Azimuth: 300	Height:115	Vert		Margin [dB]:	-4.02	-	-	-	-	-
4806	84.37 PK	-53.55	27.3	38.14*	54	-	-	-	-	-
Azimuth: 192	Height:309	Vert		Margin [dB]:	-15.86	-	-	-	-	-

*Duty Cycle correction factor of -19.98 applied. See Section 4.4 for calculations.

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 17 Radiated Emissions Graph

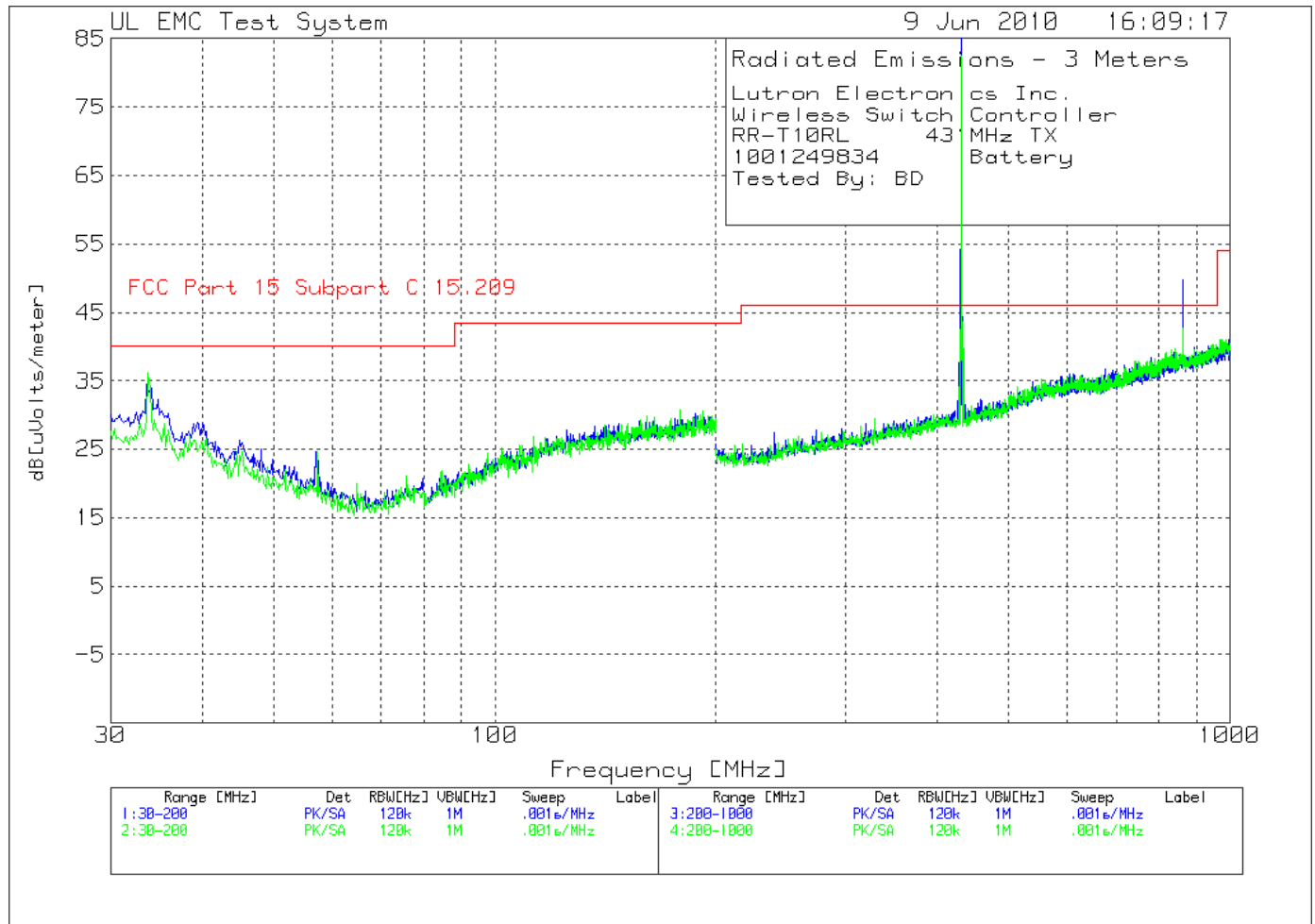


Table 22 Radiated Emissions Data Points

Lutron Electronics Inc.
 Wireless Switch Controller
 RR-T10RL 431MHz TX
 1001249834 Battery
 Tested By: BD

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	33.5736	17.14 pk	.3	17	34.44	40	-	-	-	-	-
	Azimuth:357	Height:400	Horz	Margin [dB]		-5.56	-	-	-	-	-

Vertical 30 - 200MHz -----											
2	33.7437	20.43 pk	.3	15.5	36.23	40	-	-	-	-	-
	Azimuth:148	Height:100	Vert	Margin [dB]		-3.77	-	-	-	-	-

Horizontal 200 - 1000MHz -----											
3	430.9155	68.23 pk	1.2	16.7	86.13	46	-	-	-	-	-
	Azimuth:357	Height:200	Horz	Margin [dB]		40.13	-	-	-	-	-
4	862.3312	25.28 pk	1.6	22.9	49.78	46	-	-	-	-	-
	Azimuth:18	Height:300	Horz	Margin [dB]		3.78	-	-	-	-	-

Vertical 200 - 1000MHz -----											
5	430.9155	64.91 pk	1.2	16.3	82.41	46	-	-	-	-	-
	Azimuth:166	Height:100	Vert	Margin [dB]		36.41	-	-	-	-	-
6	862.3312	18.06 pk	1.6	23.1	42.76	46	-	-	-	-	-
	Azimuth:163	Height:200	Vert	Margin [dB]		-3.24	-	-	-	-	-

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 - Linear average detector
 avlg - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

Lutron Electronics Inc.
 Wireless Switch Controller
 RR-T10RL 431MHz TX
 1001249834 Battery
 Tested By: BD

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 30 - 200MHz										
34.3575	11.59 QP	.3	16.7	28.59	40	-	-	-	-	-
Azimuth: 24	Height:100	Horz	Margin [dB]:		-11.41	-	-	-	-	-
Vertical 30 - 200MHz										
34.3413	11.48 QP	.3	15.2	26.98	40	-	-	-	-	-
Azimuth: 0	Height:119	Vert	Margin [dB]:		-13.02	-	-	-	-	-
34.3413	11.78 QP	.3	15.2	27.28	40	-	-	-	-	-
Azimuth: 0	Height:119	Vert	Margin [dB]:		-12.72	-	-	-	-	-
Horizontal 200 - 1000MHz										
431.024	67.65 PK	1.2	16.7	65.57*	-	80.7	-	-	-	-
Azimuth: 347	Height:231	Horz	Margin [dB]:		-	-15.13	-	-	-	-
862.0619	25.8 PK	1.6	22.9	50.3	-	60.7	-	-	-	-
Azimuth: 225	Height:100	Horz	Margin [dB]:		-	-10.4	-	-	-	-
Vertical 200 - 1000MHz										
431.0236	68.71 PK	1.2	16.3	66.23*	-	80.7	-	-	-	-
Azimuth: 352	Height:137	Vert	Margin [dB]:		-	-14.47	-	-	-	-
862.0649	20.39 PK	1.6	23.1	45.09	-	60.7	-	-	-	-
Azimuth: 217	Height:149	Vert	Margin [dB]:		-	-15.61	-	-	-	-

*Duty Cycle correction factor of -19.98 applied. See Section 4.4 for calculations.

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
 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 18 Radiated Emissions Graph

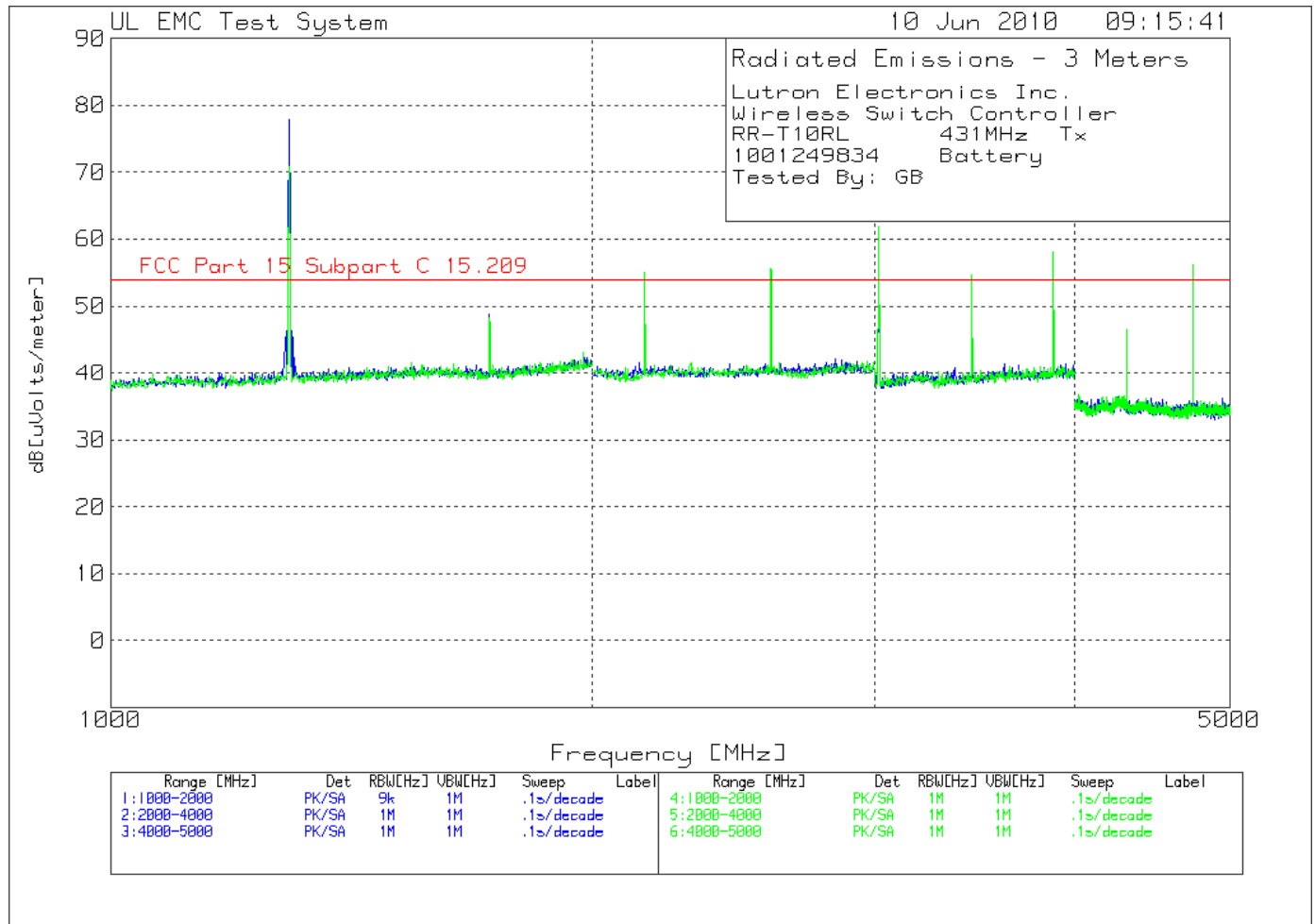


Table 23 Radiated Emissions Data Points

Lutron Electronics Inc.
 Wireless Switch Controller
 RR-T10RL 431MHz Tx
 1001249834 Battery
 Tested By: GB

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	1292.135	102.68 pk	-45.13	20.4	77.95	54	-	-	-	-	-
		Height:100 Horz		Margin [dB]		23.95	-	-	-	-	-
2	1724.095	72.45 pk	-44.38	20.8	48.87	54	-	-	-	-	-
		Height:250 Horz		Margin [dB]		-5.13	-	-	-	-	-

Horizontal 2000 - 4000MHz -----											
5	2154.806	77.43 pk	-44.21	21.4	54.62	54	-	-	-	-	-
		Height:100 Horz		Margin [dB]		0.62	-	-	-	-	-
6	2584.27	75.03 pk	-43.49	21.3	52.84	54	-	-	-	-	-
		Height:250 Horz		Margin [dB]		-1.16	-	-	-	-	-
7	3018.727	82.23 pk	-42.94	21.5	60.79	54	-	-	-	-	-
		Height:100 Horz		Margin [dB]		6.79	-	-	-	-	-
8	3448.19	70.4 pk	-42.96	22.1	49.54	54	-	-	-	-	-
		Height:250 Horz		Margin [dB]		-4.46	-	-	-	-	-
9	3877.653	77.19 pk	-42.94	22.6	56.85	54	-	-	-	-	-
		Height:250 Horz		Margin [dB]		2.85	-	-	-	-	-

Horizontal 4000 - 5000MHz -----											
15	4309.484	68.39 pk	-52.64	27.7	43.45	54	-	-	-	-	-
		Height:250 Horz		Margin [dB]		-10.55	-	-	-	-	-
16	4742.097	78.75 pk	-53.29	27.2	52.66	54	-	-	-	-	-
		Height:250 Horz		Margin [dB]		-1.34	-	-	-	-	-

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 - 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 -----											
3	1292.135	95.63 pk	-45.13	20.4	70.9	54	-	-	-	-	-
		Height:250 Vert		Margin [dB]		16.9	-	-	-	-	-
4	1724.095	71.83 pk	-44.38	20.8	48.25	54	-	-	-	-	-
		Height:250 Vert		Margin [dB]		-5.75	-	-	-	-	-
Vertical 2000 - 4000MHz -----											
10	2154.806	78.26 pk	-44.21	21	55.05	54	-	-	-	-	-
		Height:249 Vert		Margin [dB]		1.05	-	-	-	-	-
11	2584.27	77.68 pk	-43.49	21.5	55.69	54	-	-	-	-	-
		Height:249 Vert		Margin [dB]		1.69	-	-	-	-	-
12	3018.727	83.17 pk	-42.94	21.7	61.93	54	-	-	-	-	-
		Height:249 Vert		Margin [dB]		7.93	-	-	-	-	-
13	3448.19	75.51 pk	-42.96	22.2	54.75	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		0.75	-	-	-	-	-
14	3880.15	78.41 pk	-42.94	22.6	58.07	54	-	-	-	-	-
		Height:249 Vert		Margin [dB]		4.07	-	-	-	-	-
Vertical 4000 - 5000MHz -----											
17	4309.484	71.16 pk	-52.64	27.8	46.32	54	-	-	-	-	-
		Height:250 Vert		Margin [dB]		-7.68	-	-	-	-	-
18	4741.265	82.4 pk	-53.29	27.1	56.21	54	-	-	-	-	-
		Height:250 Vert		Margin [dB]		2.21	-	-	-	-	-

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 - Linear average detector
 avlg - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

Lutron Electronics Inc.
 Wireless Switch Controller
 RR-T10RL 431MHz Tx
 1001249834 Battery
 Tested By: GB

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										
1293	104.13 PK	-45.16	20.5	59.49*	-	60.7	-	-	-	-
Azimuth: 31 Height:360 Horz					Margin [dB]:	-	-1.21	-	-	-
1723.95	74.73 PK	-44.39	20.8	51.14	-	60.7	-	-	-	-
Azimuth: 190 Height:374 Horz					Margin [dB]:	-	-9.56	-	-	-
Horizontal 2000 - 4000MHz										
2155.175	80.1 PK	-44.21	21.4	57.29	-	60.7	-	-	-	-
Azimuth: 316 Height:376 Horz					Margin [dB]:	-	-3.41	-	-	-
2586.0125	77.6 PK	-43.49	21.3	55.41	-	60.7	-	-	-	-
Azimuth: 224 Height:374 Horz					Margin [dB]:	-	-5.29	-	-	-
3016.9625	83.2 PK	-42.93	21.5	41.79*	-	60.7	-	-	-	-
Azimuth: 216 Height:279 Horz					Margin [dB]:	-	-18.91	-	-	-
3448.1	72.75 PK	-42.96	22.1	51.89	-	60.7	-	-	-	-
Azimuth: 284 Height:348 Horz					Margin [dB]:	-	-8.81	-	-	-
3879	78.44 PK	-42.94	22.6	38.12*	54	-	-	-	-	-
Azimuth: 316 Height:311 Horz					Margin [dB]:	-15.88	-	-	-	-
Horizontal 4000 - 5000MHz										
4310.05	69.58 PK	-52.63	27.7	44.65	54	-	-	-	-	-
Azimuth: 223 Height:249 Horz					Margin [dB]:	-9.35	-	-	-	-
4741.1	80.28 PK	-53.29	27.2	34.21*	54	-	-	-	-	-
Azimuth: 189 Height:294 Horz					Margin [dB]:	-19.79	-	-	-	-

*Duty Cycle correction factor of -19.98 applied. See Section 4.4 for calculations.

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

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 1000 - 2000MHz										
1293.05	99.36 PK	-45.16	20.5	54.72*	-	60.7	-	-	-	-
Azimuth: 277	Height:369	Vert		Margin [dB]:	-	-5.98	-	-	-	-
1724.0125	74.55 PK	-44.38	20.8	50.97	-	60.7	-	-	-	-
Azimuth: 260	Height:349	Vert		Margin [dB]:	-	-9.73	-	-	-	-
Vertical 2000 - 4000MHz										
2154.995	79.97 PK	-44.21	21	56.76	-	60.7	-	-	-	-
Azimuth: 98	Height:334	Vert		Margin [dB]:	-	-3.94	-	-	-	-
2586.02	79.24 PK	-43.49	21.5	57.25	-	60.7	-	-	-	-
Azimuth: 95	Height:327	Vert		Margin [dB]:	-	-3.45	-	-	-	-
3016.9875	84.61 PK	-42.93	21.7	43.4*	-	60.7	-	-	-	-
Azimuth: 107	Height:386	Vert		Margin [dB]:	-	-17.3	-	-	-	-
3448	78.73 PK	-42.96	22.2	57.97	-	60.7	-	-	-	-
Azimuth: 272	Height:370	Vert		Margin [dB]:	-	-2.73	-	-	-	-
3879.075	79.34 PK	-42.94	22.6	39.02*	54	-	-	-	-	-
Azimuth: 100	Height:288	Vert		Margin [dB]:	-14.98	-	-	-	-	-
Vertical 4000 - 5000MHz										
4310.05	70.79 PK	-52.63	27.8	45.96	54	-	-	-	-	-
Azimuth: 346	Height:348	Vert		Margin [dB]:	-8.04	-	-	-	-	-
4741	82.66 PK	-53.29	27.1	36.49*	54	-	-	-	-	-
Azimuth: 86	Height:395	Vert		Margin [dB]:	-17.51	-	-	-	-	-

*Duty Cycle correction factor of -19.98 applied. See Section 4.4 for calculations.

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

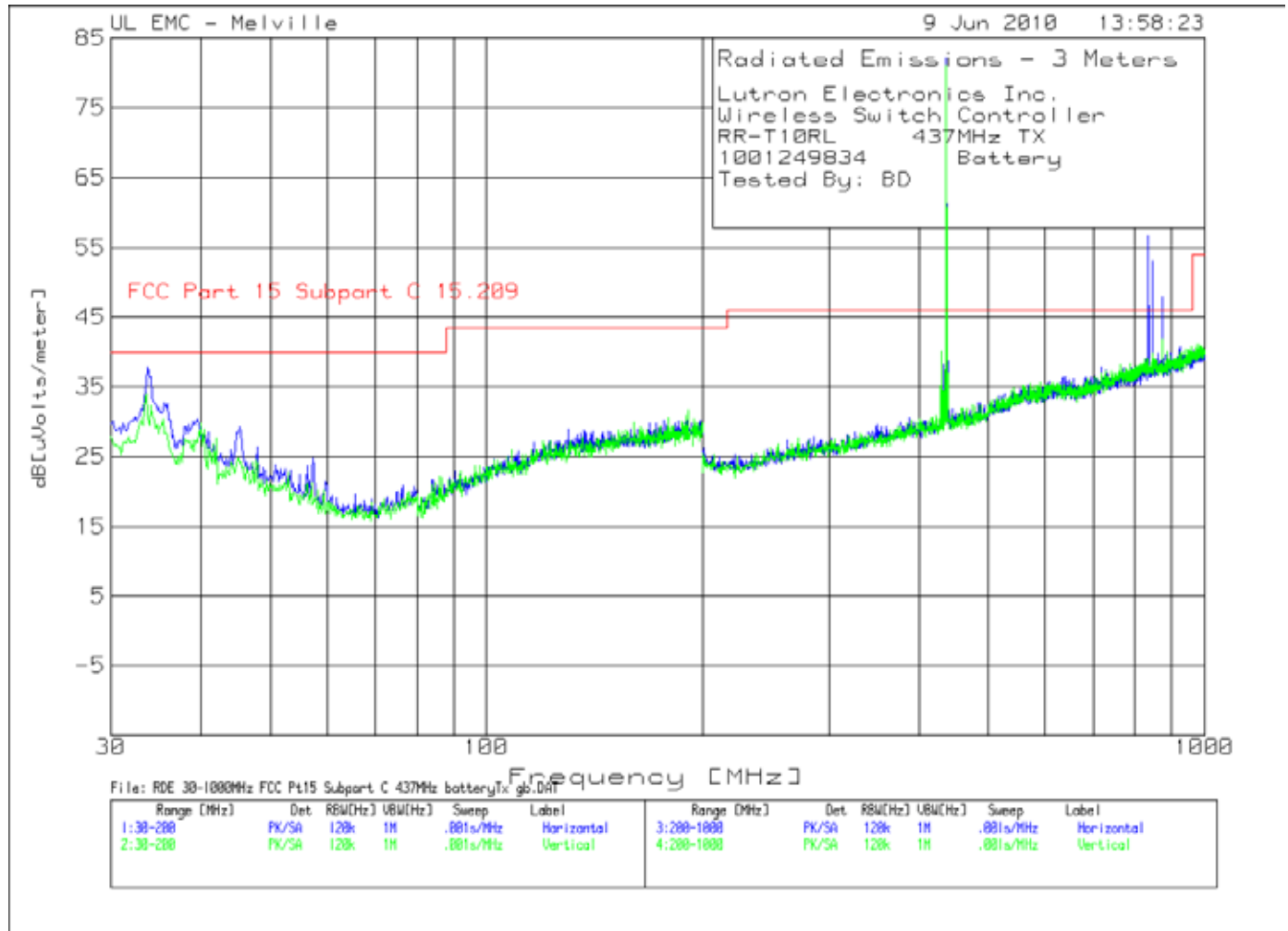


Table 24 Radiated Emissions Data Points

Lutron Electronics Inc.
 Wireless Switch Controller
 RR-T10RL 437MHz TX
 1001249834 Battery
 Tested By: BD

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	33.7437	20.62 pk	.3	16.9	37.82	40	-	-	-	-	-
	Azimuth:359	Height:200	Horz	Margin [dB]		-2.18	-	-	-	-	-

Horizontal 200 - 1000MHz -----											
2	436.9185	64.02 pk	1.1	17	82.12	46	-	-	-	-	-
	Azimuth:69	Height:100	Horz	Margin [dB]		36.12	-	-	-	-	-
3	834.7174	32.21 pk	1.6	22.8	56.61	46	-	-	-	-	-
	Azimuth:358	Height:300	Horz	Margin [dB]		10.61	-	-	-	-	-
4	845.923	28.57 pk	1.6	22.9	53.07	46	-	-	-	-	-
	Azimuth:18	Height:400	Horz	Margin [dB]		7.07	-	-	-	-	-
5	873.937	23.45 pk	1.6	22.9	47.95	46	-	-	-	-	-
	Azimuth:18	Height:100	Horz	Margin [dB]		1.95	-	-	-	-	-

Vertical 200 - 1000MHz -----											
6	436.9185	63.31 pk	1.1	16.6	81.01	46	-	-	-	-	-
	Azimuth:322	Height:100	Vert	Margin [dB]		35.01	-	-	-	-	-
7	873.937	17.2 pk	1.6	23.1	41.9	46	-	-	-	-	-
	Azimuth:36	Height:200	Vert	Margin [dB]		-4.1	-	-	-	-	-

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 - Linear average detector
 avlg - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

Lutron Electronics Inc.
 Wireless Switch Controller
 RR-T10RL 437MHz TX
 1001249834 Battery
 Tested By: BD

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 30 - 200MHz										
34.5992	16.03 QP	.4	16.6	33.03	40	-	-	-	-	-
Azimuth: 1	Height:148	Horz	Margin [dB]:	-6.97		-	-	-	-	-
Horizontal 200 - 1000MHz										
436.8494	64.92 PK	1.1	17	63.04*	-	80.9	-	-	-	-
Azimuth: 254	Height:182	Horz	Margin [dB]:	-		-17.86	-	-	-	-
834.8918	18.24 QP	1.6	22.8	42.64	46	-	-	-	-	-
Azimuth: 0	Height:100	Horz	Margin [dB]:	-3.36		-	-	-	-	-
845.6277	18.24 QP	1.6	22.9	42.74	46	-	-	-	-	-
Azimuth: 2	Height:118	Horz	Margin [dB]:	-3.26		-	-	-	-	-
873.8647	24.94 PK	1.6	22.9	49.44	-	60.9	-	-	-	-
Azimuth: 0	Height:100	Horz	Margin [dB]:	-		-11.46	-	-	-	-
Vertical 200 - 1000MHz										
436.8504	65.46 PK	1.1	16.6	63.18*	-	80.9	-	-	-	-
Azimuth: 24	Height:128	Vert	Margin [dB]:	-		-17.72	-	-	-	-
873.7168	20.51 PK	1.6	23.1	45.21	-	60.9	-	-	-	-
Azimuth: 236	Height:139	Vert	Margin [dB]:	-		-15.69	-	-	-	-

*Duty Cycle correction factor of -19.98 applied. See Section 4.4 for calculations.

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
 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 20 Radiated Emissions Graph

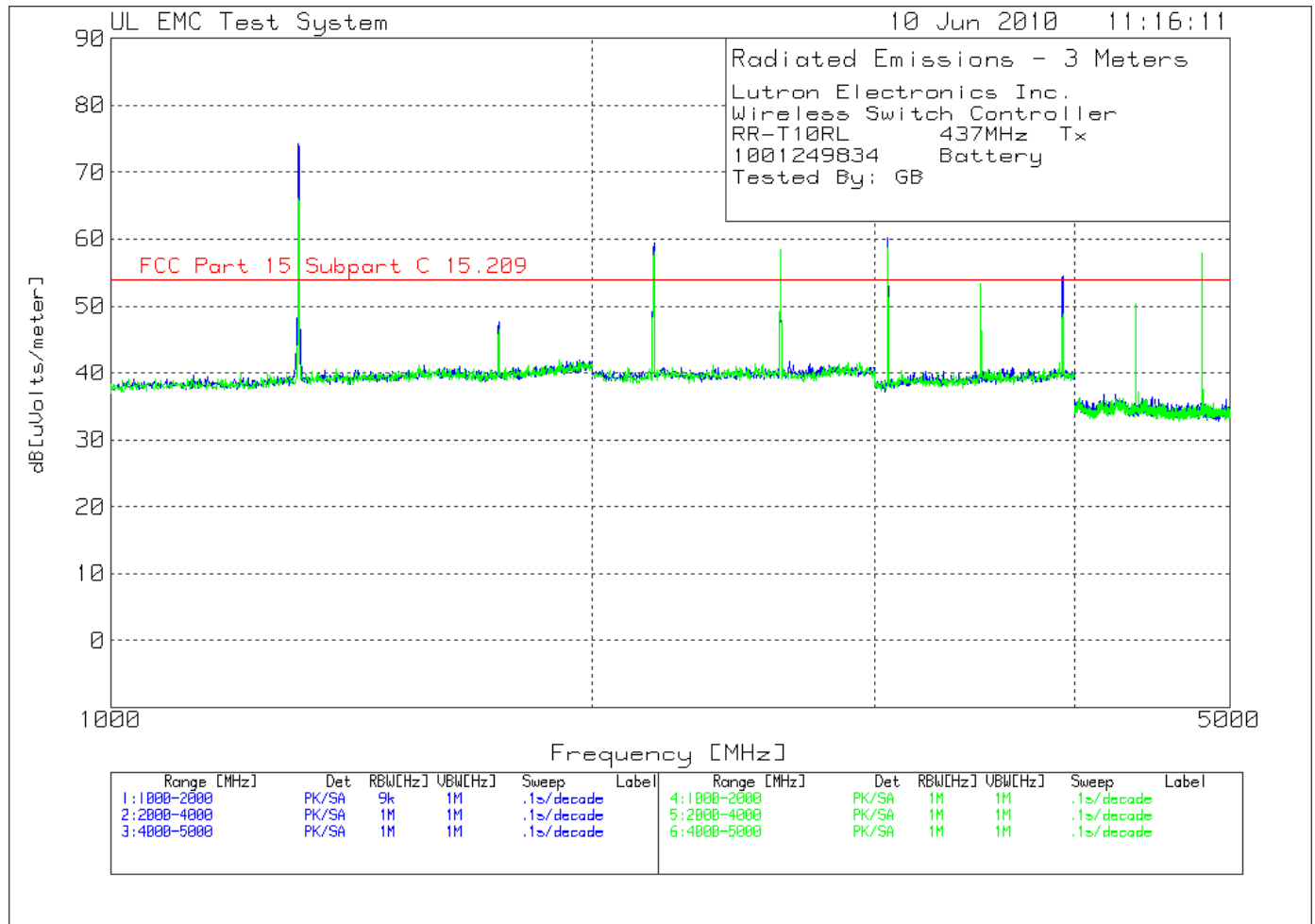


Table 25 Radiated Emissions Data Points

Lutron Electronics Inc.
 Wireless Switch Controller
 RR-T10RL 437MHz Tx
 1001249834 Battery
 Tested By: GB

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	1309.613	98.79 pk	-45.08	20.5	74.21	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		20.21	-	-	-	-	-
2	1747.815	71.2 pk	-44.35	20.8	47.65	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]		-6.35	-	-	-	-	-

Horizontal 2000 - 4000MHz -----											
5	2184.769	82 pk	-44	21.5	59.5	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]		5.5	-	-	-	-	-
6	2619.226	78.88 pk	-43.54	21.4	56.74	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		2.74	-	-	-	-	-
7	3058.677	81.61 pk	-42.92	21.6	60.29	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]		6.29	-	-	-	-	-
8	3495.63	72.93 pk	-42.87	22.2	52.26	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]		-1.74	-	-	-	-	-
9	3932.584	74.54 pk	-42.81	22.7	54.43	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]		0.43	-	-	-	-	-

Horizontal 4000 - 5000MHz -----											
17	4368.552	73.04 pk	-52.71	27.6	47.93	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-6.07	-	-	-	-	-
18	4804.493	77.3 pk	-53.54	27.1	50.86	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]		-3.14	-	-	-	-	-

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 - 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 -----											
3	1309.613	90.74 pk	-45.08	20.5	66.16	54	-	-	-	-	-
		Height:250 Vert		Margin [dB]		12.16	-	-	-	-	-
4	1747.815	70.14 pk	-44.35	20.8	46.59	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		-4.91	-	-	-	-	-
Vertical 2000 - 4000MHz -----											
10	2184.769	81 pk	-44	21.2	58.2	54	-	-	-	-	-
		Height:249 Vert		Margin [dB]		4.2	-	-	-	-	-
11	2619.226	80.56 pk	-43.54	21.4	58.42	54	-	-	-	-	-
		Height:249 Vert		Margin [dB]		4.42	-	-	-	-	-
12	3058.677	79.76 pk	-42.92	21.8	58.64	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		4.64	-	-	-	-	-
13	3495.63	73.83 pk	-42.87	22.4	53.36	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		-0.64	-	-	-	-	-
14	3932.584	68.95 pk	-42.81	22.7	48.84	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		-5.16	-	-	-	-	-
Vertical 4000 - 5000MHz -----											
15	4367.72	75.28 pk	-52.71	27.7	50.27	54	-	-	-	-	-
		Height:250 Vert		Margin [dB]		-3.73	-	-	-	-	-
16	4804.493	83.22 pk	-53.54	27.3	56.98	54	-	-	-	-	-
		Height:100 Vert		Margin [dB]		2.98	-	-	-	-	-

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 - Linear average detector
 avlg - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

Lutron Electronics Inc.
 Wireless Switch Controller
 RR-T10RL 437MHz Tx
 1001249834 Battery
 Tested By: GB

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										
1310.613	100.9 PK	-45.08	20.5	56.34*	-	60.9	-	-	-	-
Azimuth: 11	Height:367	Horz	Margin [dB]:	-	-4.56	-	-	-	-	-
1747.625	73.66 PK	-44.35	20.8	50.11	-	60.9	-	-	-	-
Azimuth: 282	Height:351	Horz	Margin [dB]:	-	-10.79	-	-	-	-	-
Horizontal 2000 - 4000MHz										
2184.55	83.63 PK	-44.01	21.5	41.14*	-	60.9	-	-	-	-
Azimuth: 304	Height:375	Horz	Margin [dB]:	-	-19.76	-	-	-	-	-
2621.35	82.41 PK	-43.56	21.4	40.27*	-	60.9	-	-	-	-
Azimuth: 222	Height:360	Horz	Margin [dB]:	-	-20.63	-	-	-	-	-
3058.375	84.26 PK	-42.92	21.6	42.96*	-	60.9	-	-	-	-
Azimuth: 154	Height:331	Horz	Margin [dB]:	-	-17.94	-	-	-	-	-
3495.5	74.44 PK	-42.87	22.2	53.77	-	60.9	-	-	-	-
Azimuth: 281	Height:331	Horz	Margin [dB]:	-	-7.13	-	-	-	-	-
3932	73.5 PK	-42.82	22.7	33.4*	54	-	-	-	-	-
Azimuth: 258	Height:262	Horz	Margin [dB]:	-20.6	-	-	-	-	-	-
Horizontal 4000 - 5000MHz										
4369.1	74.52 PK	-52.71	27.6	49.41	54	-	-	-	-	-
Azimuth: 323	Height:315	Horz	Margin [dB]:	-4.59	-	-	-	-	-	-
4805.963	79.53 PK	-53.55	27.1	33.1*	54	-	-	-	-	-
Azimuth: 315	Height:314	Horz	Margin [dB]:	-20.9	-	-	-	-	-	-

*Duty Cycle correction factor of -19.98 applied. See Section 4.4 for calculations.

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
 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

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 1000 - 2000MHz										
1310.65	95.43 PK	-45.08	20.5	50.87*	-	60.9	-	-	-	-
Azimuth: 283	Height:399	Vert		Margin [dB]:	-	-10.03	-	-	-	-
1747.6125	71.85 PK	-44.35	20.8	48.3	-	60.9	-	-	-	-
Azimuth: 336	Height:304	Vert		Margin [dB]:	-	-12.6	-	-	-	-
Vertical 2000 - 4000MHz										
2184.538	83.89 PK	-44.01	21.2	41.1*	-	60.9	-	-	-	-
Azimuth: 86	Height:323	Vert		Margin [dB]:	-	-19.8	-	-	-	-
2621.375	82.64 PK	-43.56	21.4	40.5*	-	60.9	-	-	-	-
Azimuth: 238	Height:399	Vert		Margin [dB]:	-	-20.4	-	-	-	-
3058.25	84.38 PK	-42.91	21.8	43.29*	-	60.9	-	-	-	-
Azimuth: 282	Height:375	Vert		Margin [dB]:	-	-17.61	-	-	-	-
3495.388	79.49 PK	-42.87	22.4	59.02	-	60.9	-	-	-	-
Azimuth: 247	Height:368	Vert		Margin [dB]:	-	-1.88	-	-	-	-
3931.875	74.71 PK	-42.82	22.7	34.61*	54	-	-	-	-	-
Azimuth: 99	Height:325	Vert		Margin [dB]:	-19.39	-	-	-	-	-
Vertical 4000 - 5000MHz										
4369.165	74.12 PK	-52.71	27.7	49.11	54	-	-	-	-	-
Azimuth: 79	Height:387	Vert		Margin [dB]:	-4.89	-	-	-	-	-
4805.975	85.13 PK	-53.55	27.3	38.9*	54	-	-	-	-	-
Azimuth: 183	Height:309	Vert		Margin [dB]:	-15.1	-	-	-	-	-

*Duty Cycle correction factor of -19.98 applied. See Section 4.4 for calculations.

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
 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 - Unintentional

Test Description	Measurements were made in a 10-meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4:2003. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 10-meter and 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 B	
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)
Limits - Class B		
Frequency (MHz)	Limit (dBµV/m)	
	Quasi-Peak	Average
30-218	30	NA
218-1000	37	NA
1000-2000	NA	54
Supplementary information: Below 1GHz, CISPR 22 limits and methods applied.		

Table 26 Radiated Emissions EUT Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	5
1	1	6
2	1	7
2	1	8
Supplementary information: None		

Table 27 Radiated Emissions Test Equipment

Test Equipment Used			
Description	Manufacturer	Model	Identifier
30-1000MHz			
EMI Receiver	Rohde & Schwarz	ESIB40	34968
Bicon Antenna	Schaffner	VBA6106A	43441
Log-P Antenna	Schaffner	UPA6109	44068
Bias Tee	Miteq	AM-1523-7687	44392
Bias Tee	Miteq	AM-1523-7687	44393
Preamp	Miteq	AM-3A-000110-7687	44391
Preamp	Miteq	AM-3A-000110-7687	44394
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	87V	64386
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	87V	64386

Figure 21 Test setup for Radiated Emissions



Setup for battery mode is the same as above with the AC power adapter removed.

Figure 22 Radiated Emissions Graph

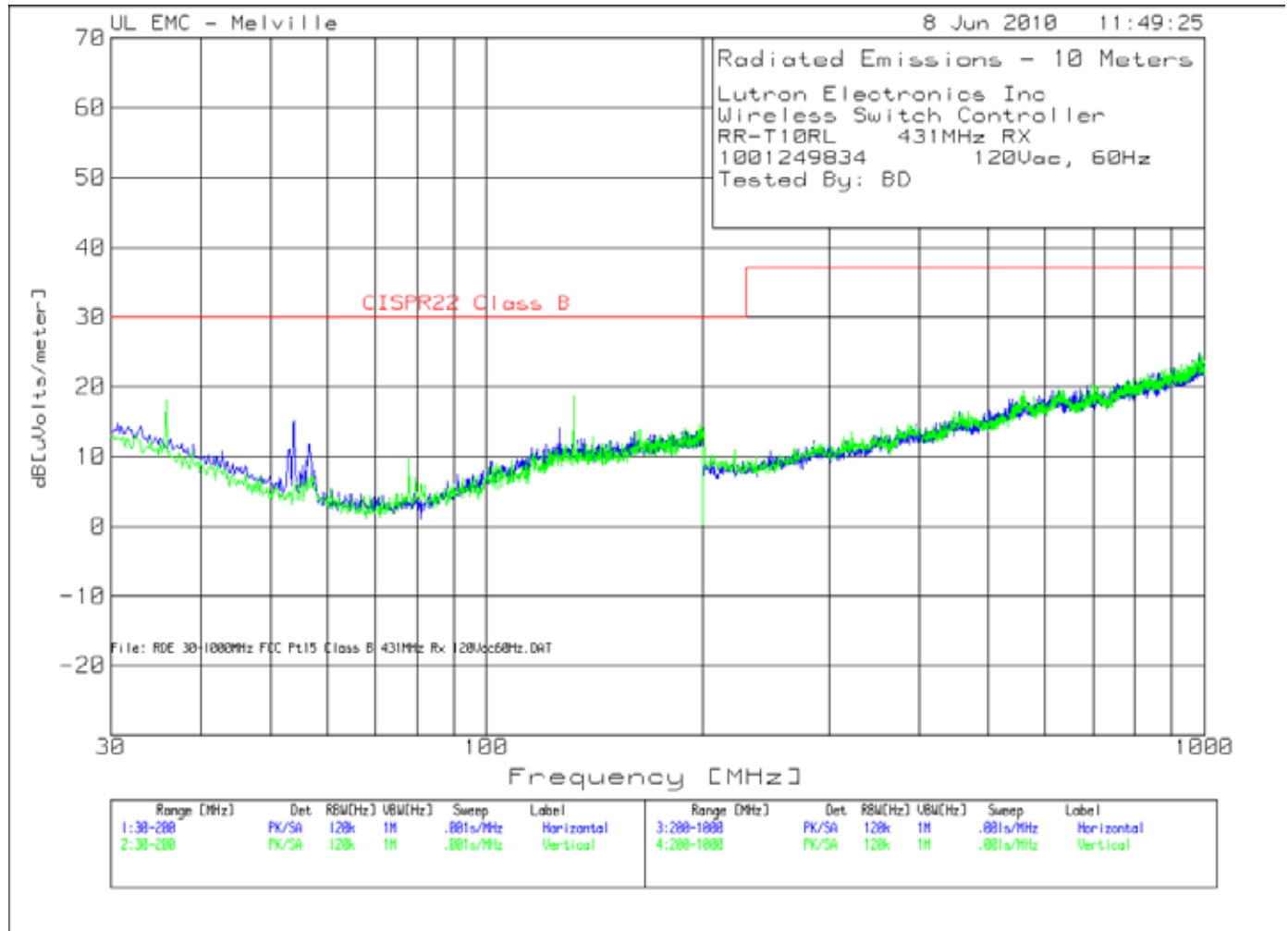


Table 28 Radiated Emissions Data Points

Lutron Electronics Inc
 Wireless Switch Controller
 RR-T10RL 431MHz RX
 1001249834 120Vac, 60Hz
 Tested By: BD

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	53.1431	38.16 pk	-35.8	8.7	11.06	30	-	-	-	-	-
	Azimuth:130	Height:101	Horz	Margin [dB]		-18.94	-	-	-	-	-
2	53.994	42.41 pk	-35.8	8.6	15.21	30	-	-	-	-	-
	Azimuth:326	Height:101	Horz	Margin [dB]		-14.79	-	-	-	-	-
3	56.7167	40.1 pk	-35.9	7.6	11.8	30	-	-	-	-	-
	Azimuth:16	Height:101	Horz	Margin [dB]		-18.2	-	-	-	-	-
4	126.4865	35.94 pk	-35.6	13.8	14.14	30	-	-	-	-	-
	Azimuth:261	Height:400	Horz	Margin [dB]		-15.86	-	-	-	-	-

Vertical 30 - 200MHz -----											
5	35.7858	38.94 pk	-35.8	15	18.14	30	-	-	-	-	-
	Azimuth:99	Height:101	Vert	Margin [dB]		-11.86	-	-	-	-	-
6	77.988	37.58 pk	-35.7	7.7	9.58	30	-	-	-	-	-
	Azimuth:99	Height:101	Vert	Margin [dB]		-20.42	-	-	-	-	-
7	132.2723	40.21 pk	-35.5	14.1	18.81	30	-	-	-	-	-
	Azimuth:163	Height:101	Vert	Margin [dB]		-11.19	-	-	-	-	-

LIMIT 1: CISPR22 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 - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

Figure 23 Radiated Emissions Graph

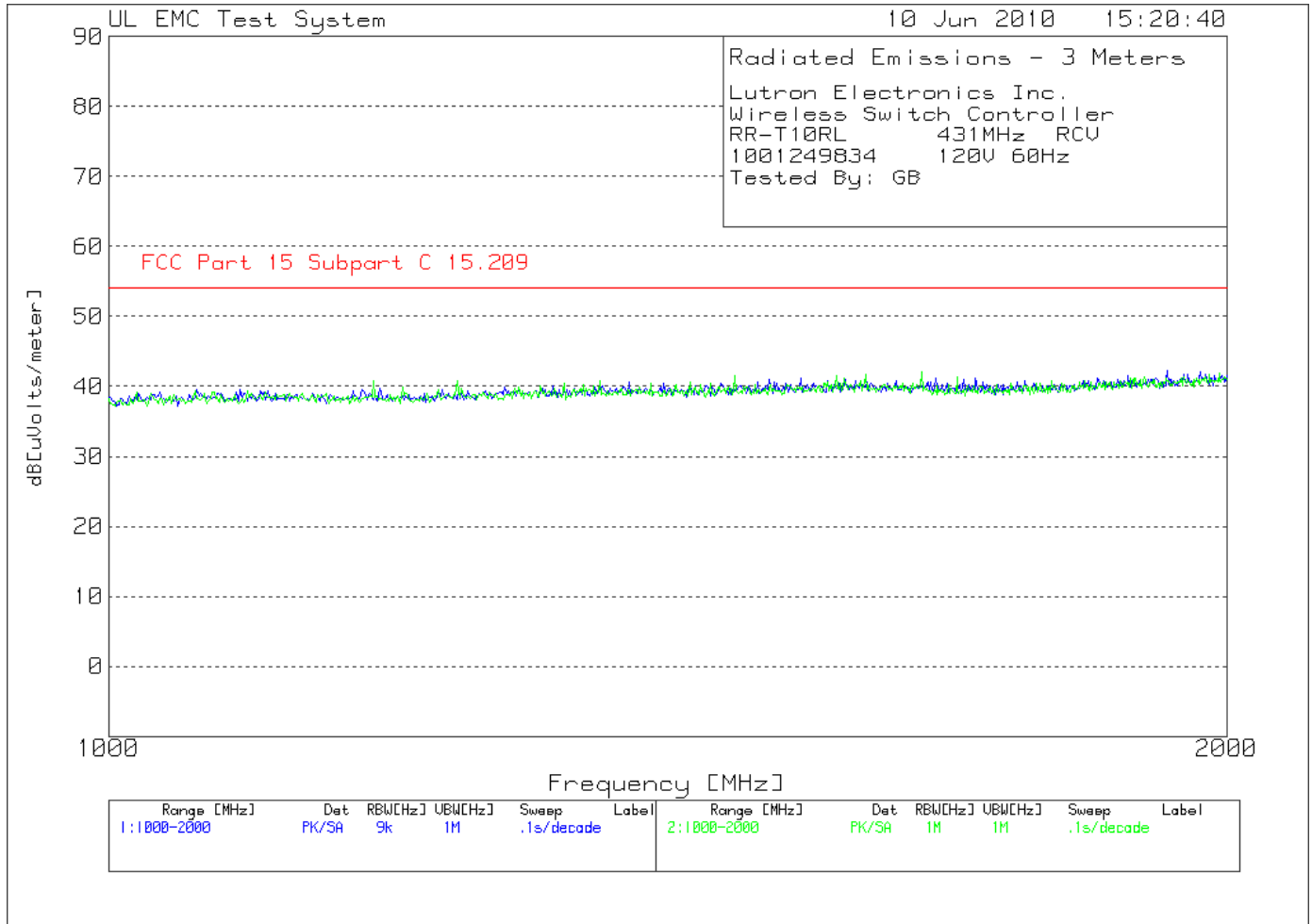


Table 29 Radiated Emissions Data Points

Lutron Electronics Inc.
 Wireless Switch Controller
 RR-T10RL 431MHz RCV
 1001249834 120V 60Hz
 Tested By: GB

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	1053.683	65.58 pk	-45.3	19.7	39.98	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-14.02	-	-	-	-	-
2	1309.613	65.27 pk	-45.08	20.5	40.69	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-13.31	-	-	-	-	-
3	1812.734	65.06 pk	-44.2	21.1	41.96	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-12.04	-	-	-	-	-

Vertical 1000 - 2000MHz -----											
4	1088.639	65.2 pk	-45.24	19.9	39.86	54	-	-	-	-	-
		Height:100	Vert	Margin [dB]		-14.14	-	-	-	-	-
5	1293.383	66.52 pk	-45.16	20.5	41.86	54	-	-	-	-	-
		Height:100	Vert	Margin [dB]		-12.14	-	-	-	-	-
6	1662.921	67.25 pk	-44.5	20.9	43.65	54	-	-	-	-	-
		Height:100	Vert	Margin [dB]		-10.35	-	-	-	-	-

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

Figure 24 Radiated Emissions Graph

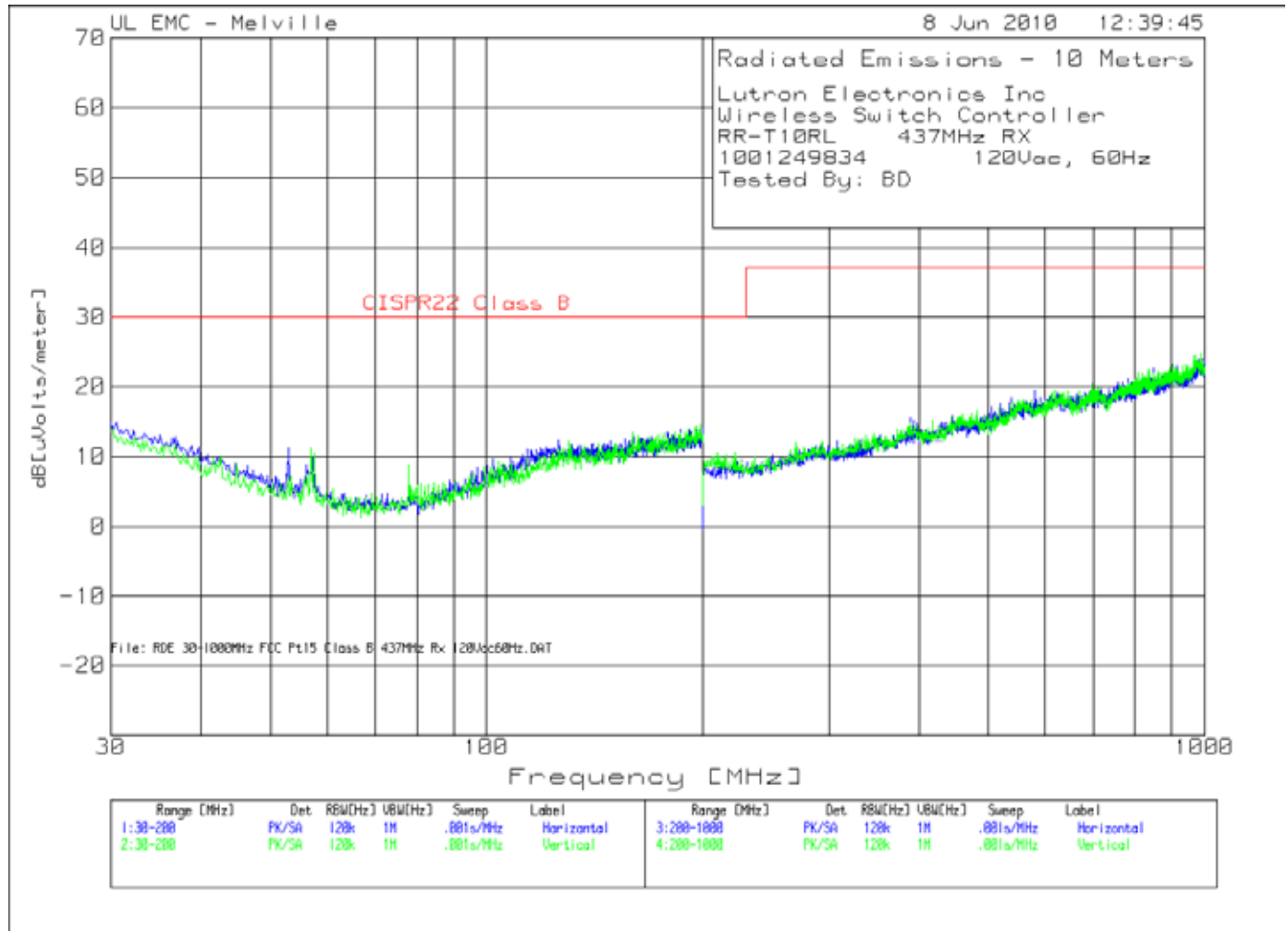


Table 30 Radiated Emissions Data Points

Lutron Electronics Inc
 Wireless Switch Controller
 RR-T10RL 437MHz RX
 1001249834 120Vac, 60Hz
 Tested By: BD

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	52.973	38.28 pk	-35.8	8.7	11.18	30	-	-	-	-	-
	Azimuth:164	Height:101	Horz	Margin [dB]		-18.82	-	-	-	-	-
2	56.2062	36.9 pk	-35.9	7.8	8.8	30	-	-	-	-	-
	Azimuth:17	Height:101	Horz	Margin [dB]		-21.2	-	-	-	-	-
3	57.3974	38.53 pk	-35.9	7.4	10.03	30	-	-	-	-	-
	Azimuth:358	Height:250	Horz	Margin [dB]		-19.97	-	-	-	-	-
4	125.976	34.22 pk	-35.6	13.7	12.32	30	-	-	-	-	-
	Azimuth:131	Height:250	Horz	Margin [dB]		-17.68	-	-	-	-	-

Vertical 30 - 200MHz -----											
5	56.8869	39.47 pk	-35.9	7.7	11.27	30	-	-	-	-	-
	Azimuth:262	Height:101	Vert	Margin [dB]		-18.73	-	-	-	-	-
6	77.988	36.81 pk	-35.7	7.7	8.81	30	-	-	-	-	-
	Azimuth:69	Height:101	Vert	Margin [dB]		-21.19	-	-	-	-	-

LIMIT 1: CISPR22 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 - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

Figure 25 Radiated Emissions Graph

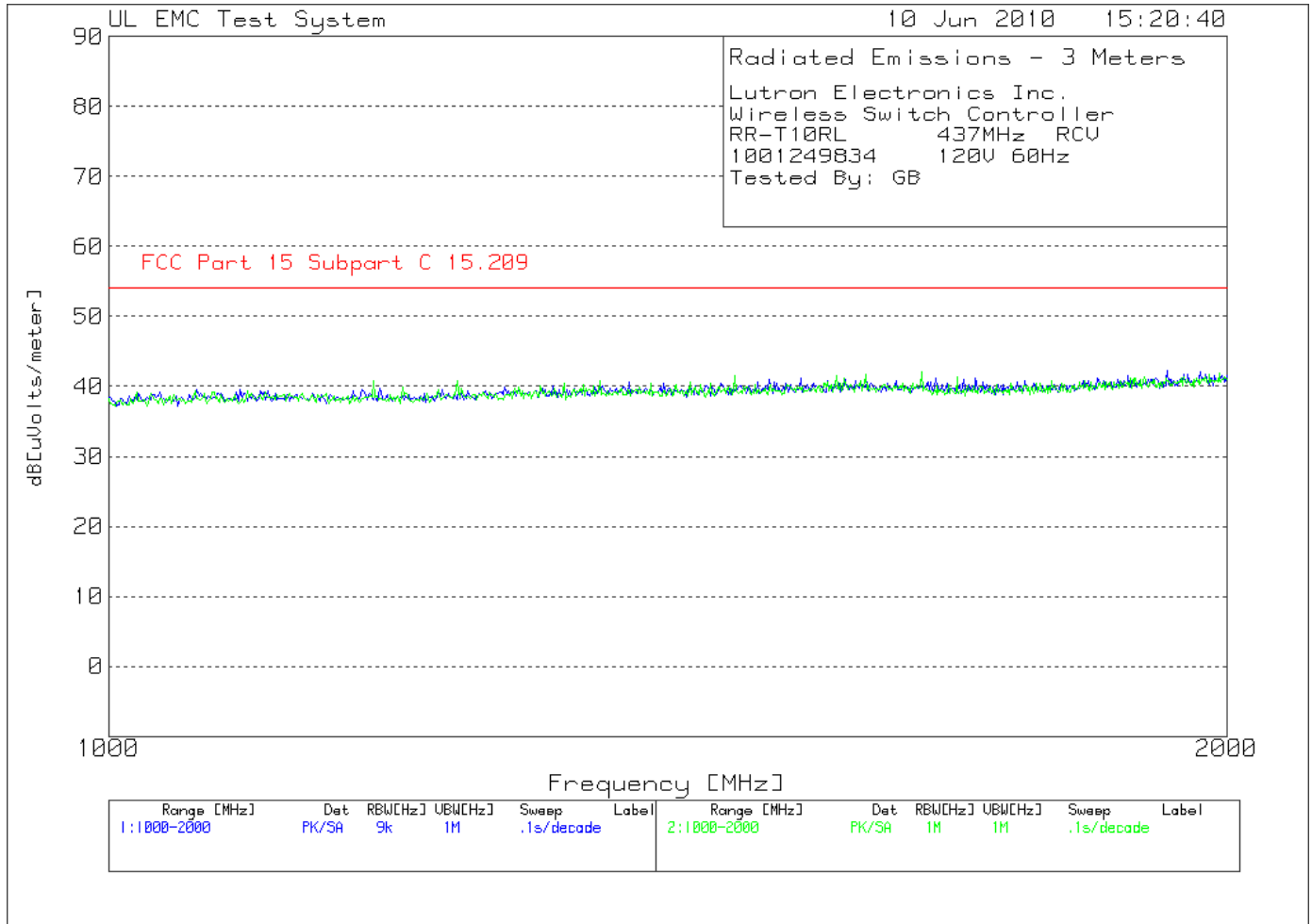


Table 31 Radiated Emissions Data Points

Lutron Electronics Inc.
 Wireless Switch Controller
 RR-T10RL 437MHz RCV
 1001249834 120V 60Hz
 Tested By: GB

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	1084.894	64.85 pk	-45.26	19.9	39.49	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]		-14.51	-	-	-	-	-
2	1380.774	64.98 pk	-45.08	20.7	40.6	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]		-13.4	-	-	-	-	-
3	1927.591	64.32 pk	-43.91	21.8	42.21	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-11.79	-	-	-	-	-

Vertical 1000 - 2000MHz -----											
4	1178.527	66.14 pk	-45.12	19.8	40.82	54	-	-	-	-	-
		Height:249	Vert	Margin [dB]		-13.18	-	-	-	-	-
5	1240.949	65.79 pk	-45.09	20.1	40.8	54	-	-	-	-	-
		Height:249	Vert	Margin [dB]		-13.2	-	-	-	-	-
6	1655.431	65.59 pk	-44.44	20.9	42.05	54	-	-	-	-	-
		Height:100	Vert	Margin [dB]		-11.95	-	-	-	-	-

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 - Linear average detector
 avlg - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

Figure 26 Radiated Emissions Graph

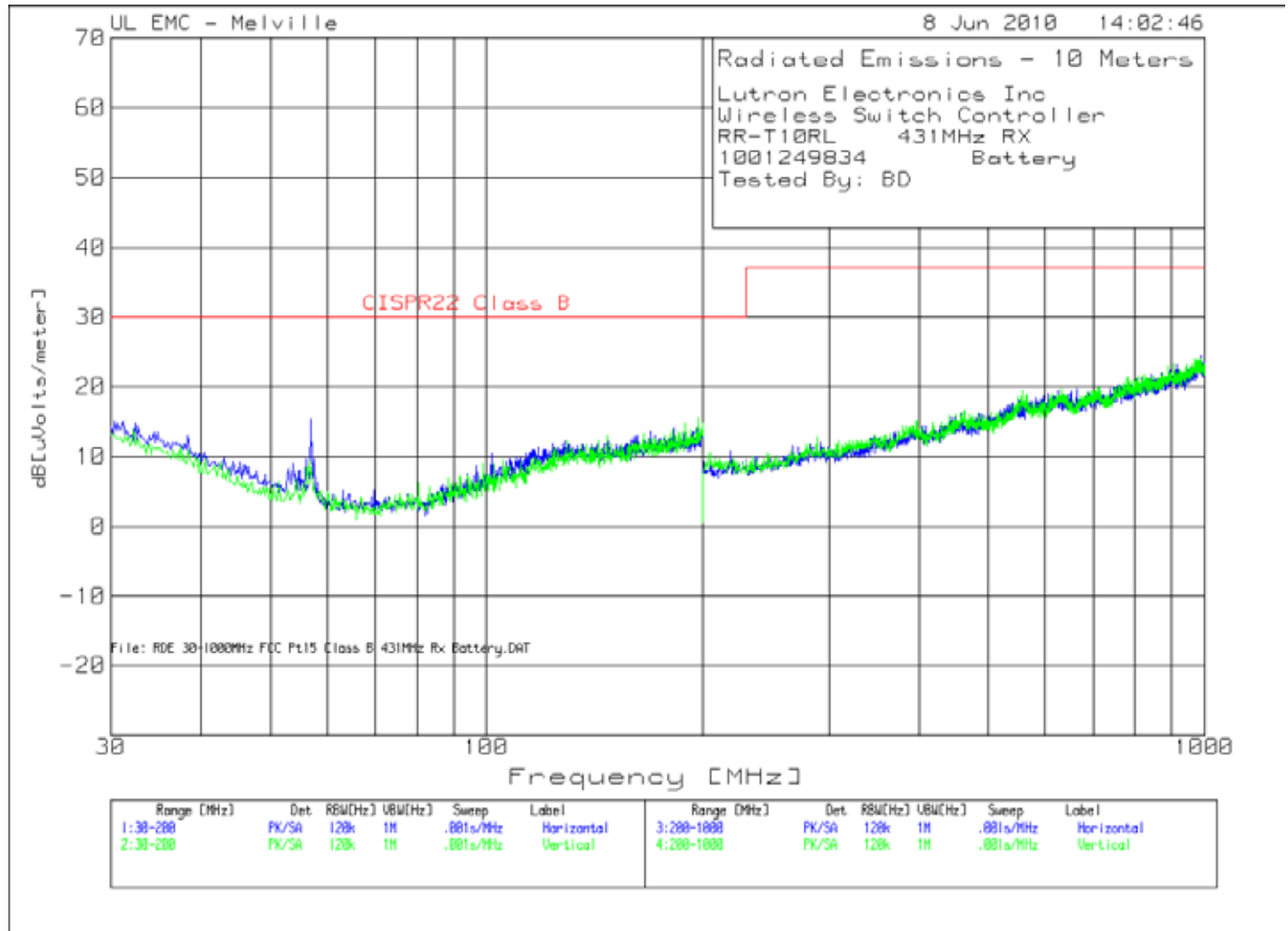


Table 32 Radiated Emissions Data Points

Lutron Electronics Inc
 Wireless Switch Controller
 RR-T10RL 431MHz RX
 1001249834 Battery
 Tested By: BD

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	52.973	35.26 pk	-35.8	8.7	8.16	30	-	-	-	-	-
	Azimuth:36	Height:101	Horz	Margin [dB]		-21.84	-	-	-	-	-
2	53.8238	36.3 pk	-35.8	8.6	9.1	30	-	-	-	-	-
	Azimuth:101	Height:101	Horz	Margin [dB]		-20.9	-	-	-	-	-
3	56.8869	43.78 pk	-35.9	7.5	15.38	30	-	-	-	-	-
	Azimuth:262	Height:101	Horz	Margin [dB]		-14.62	-	-	-	-	-

Vertical 30 - 200MHz -----											
4	54.3343	34.33 pk	-35.8	8.2	6.73	30	-	-	-	-	-
	Azimuth:0	Height:101	Vert	Margin [dB]		-23.27	-	-	-	-	-
5	56.7167	37.54 pk	-35.9	7.8	9.44	30	-	-	-	-	-
	Azimuth:165	Height:101	Vert	Margin [dB]		-20.56	-	-	-	-	-
6	195.7457	33.13 pk	-35.3	16.3	14.13	30	-	-	-	-	-
	Azimuth:132	Height:101	Vert	Margin [dB]		-15.87	-	-	-	-	-

LIMIT 1: CISPR22 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 - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

Figure 27 Radiated Emissions Graph

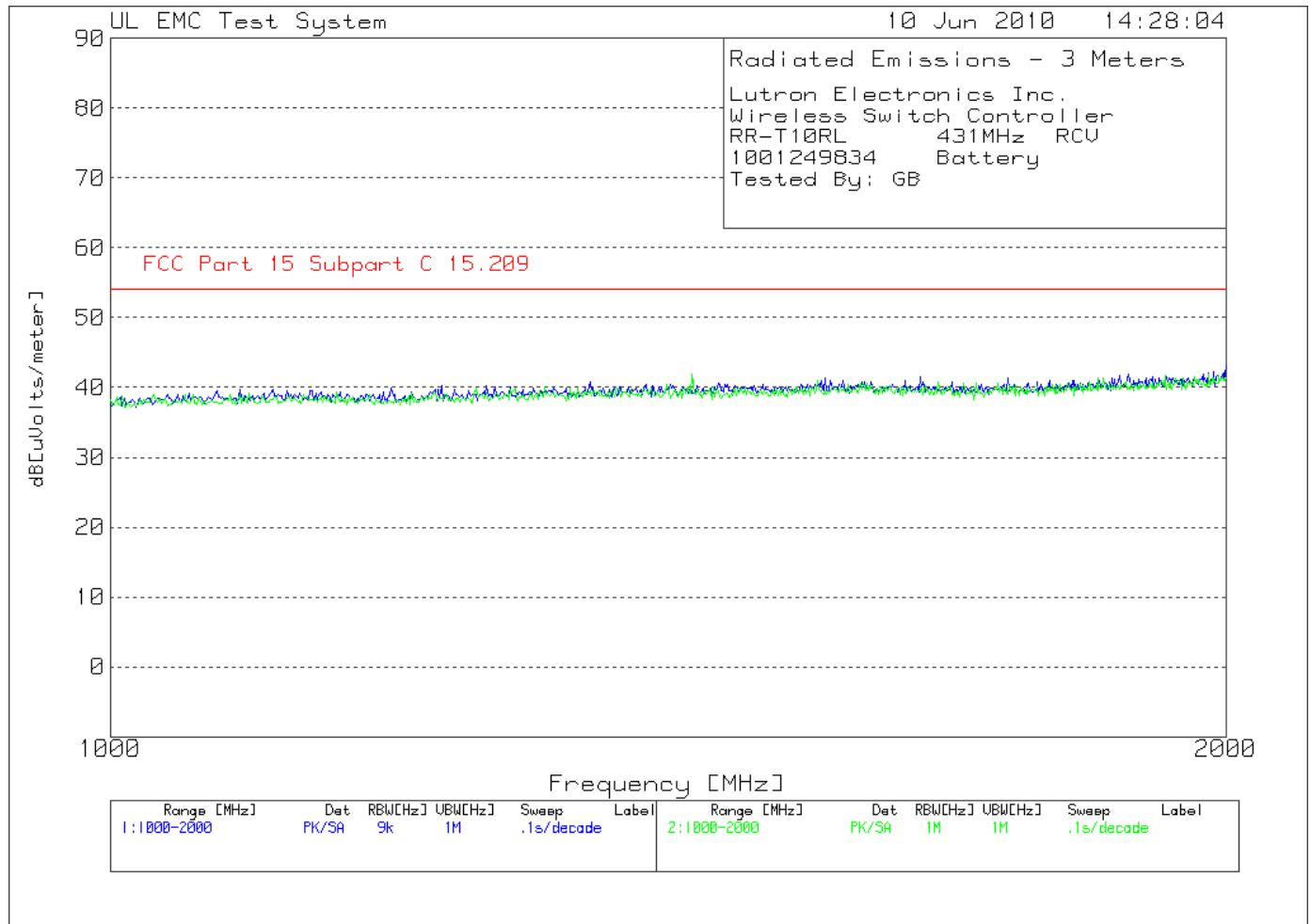


Table 33 Radiated Emissions Data Points

Lutron Electronics Inc.
 Wireless Switch Controller
 RR-T10RL 431MHz RCV
 1001249834 Battery
 Tested By: GB

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	1068.664	64.97 pk	-45.2	19.8	39.57	54	-	-	-	-	-
		Height:250	Horz	Margin [dB]		-14.43	-	-	-	-	-
2	1347.066	65.18 pk	-45.02	20.6	40.76	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-13.24	-	-	-	-	-
3	1654.182	65.1 pk	-44.45	20.9	41.55	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-12.45	-	-	-	-	-

Vertical 1000 - 2000MHz -----											
4	1254.682	64.73 pk	-45.08	20.2	39.85	54	-	-	-	-	-
		Height:100	Vert	Margin [dB]		-14.15	-	-	-	-	-
5	1435.705	66.13 pk	-44.88	20.7	41.95	54	-	-	-	-	-
		Height:250	Vert	Margin [dB]		-12.05	-	-	-	-	-
6	1735.331	64.28 pk	-44.38	20.8	40.7	54	-	-	-	-	-
		Height:250	Vert	Margin [dB]		-13.3	-	-	-	-	-

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 - Linear average detector
 avlg - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

Figure 28 Radiated Emissions Graph

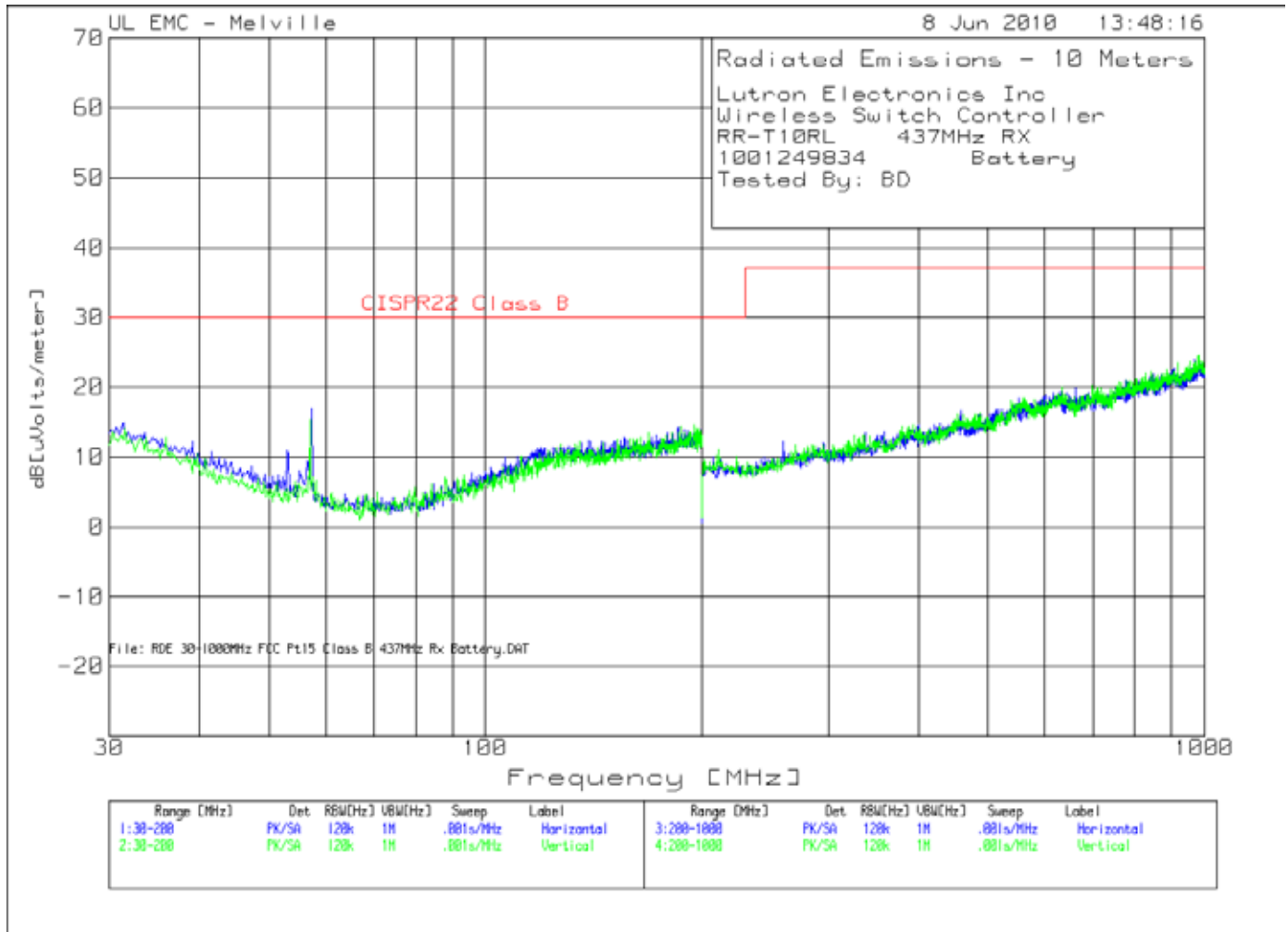


Table 34 Radiated Emissions Data Points

Lutron Electronics Inc
 Wireless Switch Controller
 RR-T10RL 437MHz RX
 1001249834 Battery
 Tested By: BD

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	52.973	38.08 pk	-35.8	8.7	10.98	30	-	-	-	-	-
	Azimuth:4	Height:101	Horz	Margin [dB]		-19.02	-	-	-	-	-
2	55.1852	35.71 pk	-35.8	8.1	8.01	30	-	-	-	-	-
	Azimuth:38	Height:101	Horz	Margin [dB]		-21.99	-	-	-	-	-
3	57.3974	45.46 pk	-35.9	7.4	16.96	30	-	-	-	-	-
	Azimuth:69	Height:101	Horz	Margin [dB]		-13.04	-	-	-	-	-

Vertical 30 - 200MHz -----											
4	54.3343	34.03 pk	-35.8	8.2	6.43	30	-	-	-	-	-
	Azimuth:327	Height:101	Vert	Margin [dB]		-23.57	-	-	-	-	-
5	56.7167	35.37 pk	-35.9	7.8	7.27	30	-	-	-	-	-
	Azimuth:4	Height:101	Vert	Margin [dB]		-22.73	-	-	-	-	-
6	57.0571	43.58 pk	-35.9	7.7	15.38	30	-	-	-	-	-
	Azimuth:231	Height:101	Vert	Margin [dB]		-14.62	-	-	-	-	-

LIMIT 1: CISPR22 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 - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS detection

Figure 29 Radiated Emissions Graph

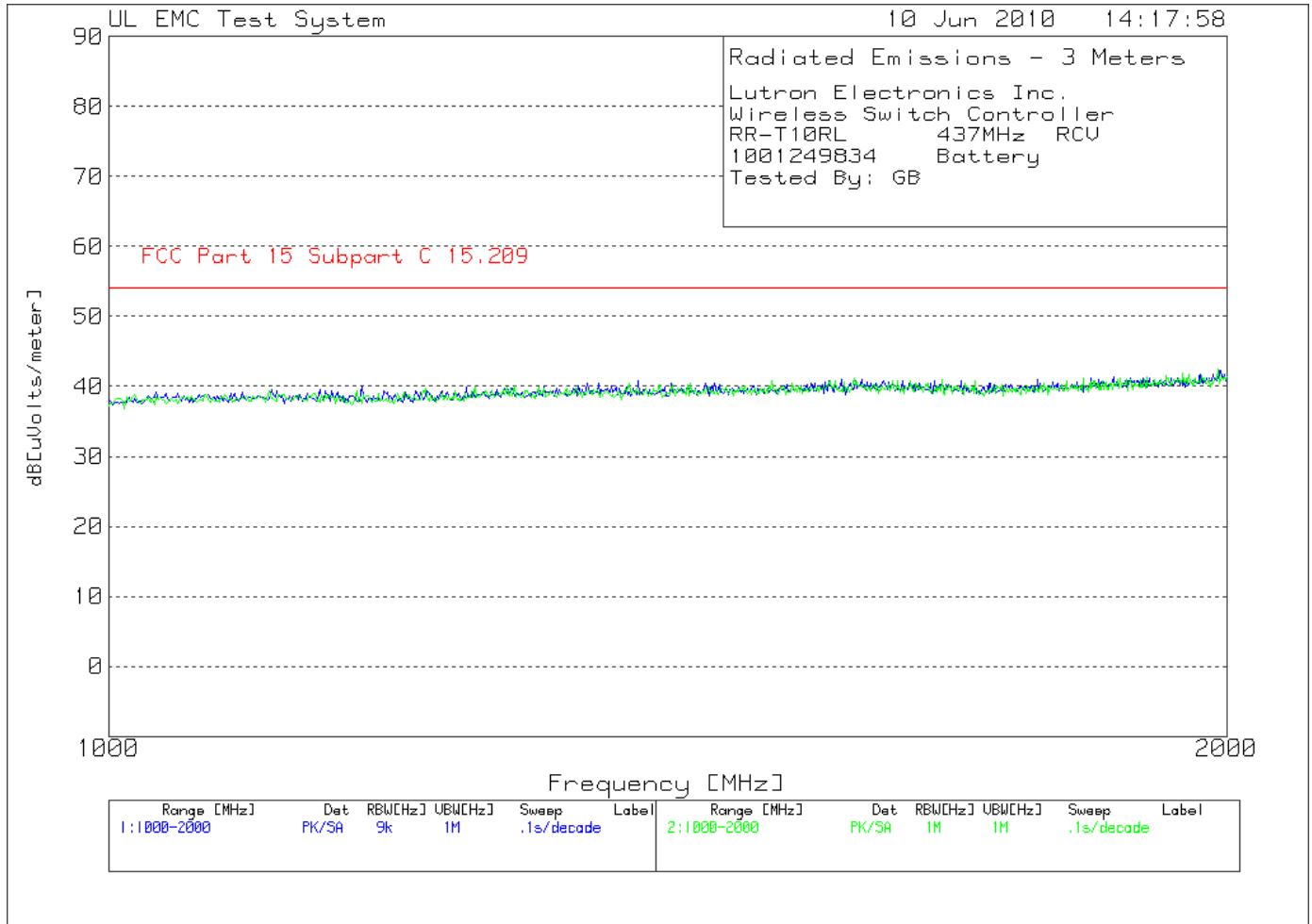


Table 35 Radiated Emissions Data Points

Lutron Electronics Inc.
 Wireless Switch Controller
 RR-T10RL 437MHz RCV
 1001249834 Battery
 Tested By: GB

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	1086.142	64.44 pk	-45.24	19.9	39.1	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-14.9	-	-	-	-	-
2	1169.788	65.41 pk	-45.15	19.9	40.16	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-13.84	-	-	-	-	-
3	1388.265	65.18 pk	-45.01	20.7	40.87	54	-	-	-	-	-
		Height:100	Horz	Margin [dB]		-13.13	-	-	-	-	-

Vertical 1000 - 2000MHz -----											
4	1285.893	64.84 pk	-45.07	20.4	40.17	54	-	-	-	-	-
		Height:100	Vert	Margin [dB]		-13.83	-	-	-	-	-
5	1508.115	64.78 pk	-44.72	20.8	40.86	54	-	-	-	-	-
		Height:249	Vert	Margin [dB]		-13.14	-	-	-	-	-
6	1828.964	64.27 pk	-44.24	21.2	41.23	54	-	-	-	-	-
		Height:249	Vert	Margin [dB]		-12.77	-	-	-	-	-

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 - Linear average detector
 avlg - Average log detector
 AV - Average detector
 CAV - CISPR Average detector
 RMS - RMS detection
 CRMS - CISPR RMS 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.



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 2004/108/EC, Annex III (2-3). 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

Job Number: 1001249834 File Number: MC15832 Page 95 of 95
Model Number: RR-T10RL
Client Name: LUTRON ELECTRONICS INC
FCC ID: JPZ0072 IC ID: 2851A-JPZ0037

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