

TEST REPORT NO. RSI-2709E ELECTROMAGNETIC EMISSION EVALUATION OF THE LUTRON ELECTRONICS MODEL #: HRD-5KP FCC PART 15, SUBPART B AND C 29 MARCH 2005

PREPARED FOR:

Lutron Electronics 7200 Suter Road Coopersburg, PA 18036

SUBMITTED BY:

Radiation Sciences Inc. 3131 Detwiler Road Harleysville, PA 19438

PREPARED BY:

John Kavaluski EMC Test Engineer Radiation Sciences Inc.

REVIEWED BY:

Daniel J. Signore President Radiation Sciences Inc.



ADMINISTRATIVE DATA

TEST PERFORMED:

Measurements of Radiated RF and Conducted Emissions.

PURPOSE OF TEST:

To evaluate the ElectroMagnetic Emission (EME) characteristics of the Equipment Under Test (EUT) with respect to Subpart B and C of Part 15 of the Federal Communications Commission (FCC) Rules for intentional and unintentional radiators.

EQUIPMENT UNDER TEST (EUT):

Model Number: **HRD-5KP** Serial Number: 070002062092

CONTRACT:

Purchase Order Number: 56107

TEST PERIOD:

29 October 2004 and 23 March 2005

TEST FACILITY:

Radiation Sciences Incorporated (RSI), EMC Test Laboratory, located at: 3131 Detwiler Road, Harleysville, Pennsylvania 19438.

TEST PERSONNEL AND COORDINATORS:

Radiation Sciences Inc.

Lutron Electronics

John Kavaluski

Mark Clouser



SUMMARY OF TEST RESULTS

The Model #: HRD-5KP, configured as described herein, FULLY COMPLIES WITH THE REQUIREMENTS SET FORTH IN SUBPART B AND C OF PART 15 OF THE FED-ERAL COMMUNICATIONS COMMISSION (FCC) RULES FOR INTENTIONAL AND UNINTENTIONAL RADIATORS.

1.0 INTRODUCTION

This document is a report of tests to determine the EME characteristics of the **Model #: HRD-5KP**, presented by **Lutron Electronics** of Coopersburg, Pennsylvania.

The purpose of the testing was to evaluate the EMC characteristics of the test sample with respect to Subpart B and C of Part 15 of the **FCC** Rules for intentional and unintentional radiators.

All test procedures used meet the requirements of the American National Standards Institute Procedure C63:4: "<u>Methods of Measurement of Radio-Noise Emissions from Low-Voltage</u> <u>Electrical and Electronic Equipment in the Range of 9kHz to 40GHz</u>", dated 17 July 1992.



2.0 DESCRIPTION OF THE TEST SAMPLE:

The **Lutron Electronics HRD-5KP** is a wireless wall keypad operating between 431 and 437MHz. The keypad can be programmed to control any light or group of lights. The unit is powered by 115VAC and contains clock signals of 14.756 and 32.0MHz.

The "5" notation in the **5KP** Part Number denotes the number of buttons available in the device. The unit tested for **FCC** compliance was an **HRD-5KP**, which signifies that it was a 5button/scene device. Depending on the configuration of the unit, this number can be substituted with other numeral designations.



3.0 TEST INSTRUMENTATION

RSI INV NO.	DESCRIPTION	MANUFACTURER	MODEL #	SERIAL #	CAL DUE DATE
32.1	SPEC. ANALY.	H.P.	8566B	3638A08767	8/13/2005
33.1	SPEC. ANALY. DISPLY	H.P.		3701A22258	8/13/2005
75	ANTENNA	TENSOR	4108	204	6/11/2005
80	ANTENNA	AMP.RES.Assoc.	AT1000	4094-025	6/14/2005
177	COMPUTER	H.P. (Disc Drive)	9122C	2804A8894	
236	LISN	SOLAR	8012-50-R-12-BNC	807-52	3/26/2005
390	RECEIVER	R & S	ESH 3	861742/012	4/18/2005
391	RECEIVER	R & S	ESVP	861744/015	6/15/2005
474	TRANSFORMER	G.E.	9T51B33G3	NSN	
501	MINI MAST	EMCO	2075-2	0002-2278	
502	TURNTABLE	EMCO	2065-1.21	0001-2156	
503	CONTROLLER	EMCO	2090	0001-1489	
701	12 ft Cable RG-223	PASTERNACK	BNC TO BNC	N/A	9/16/2005
708	40ft Cable RG-223	PASTERNACK	BNC TO BNC	N/A	9/23/2005

IF CAL DUE DATE = BLANK FIELD Calibration is not required for this item. Equipment not used to obtain a final reading (i.e. transmitting antenna).

4.0 TEST RESULTS

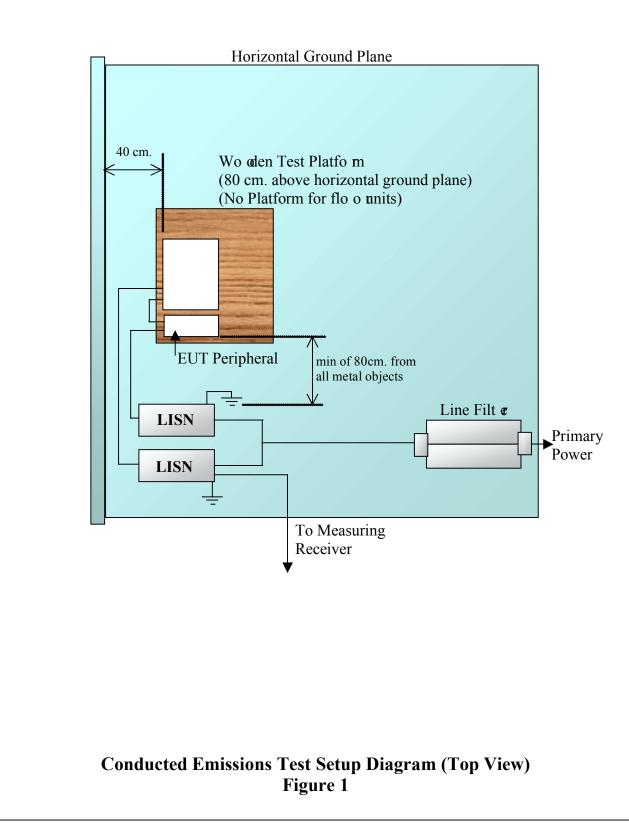
4.1 <u>Conducted Power Line Measurements, Paragraph 15.107</u>

Conducted power line measurements were recorded for the Model HRD-5KP.

The test setup diagram is shown in Figure 1 and a photograph is shown in Figure 2.

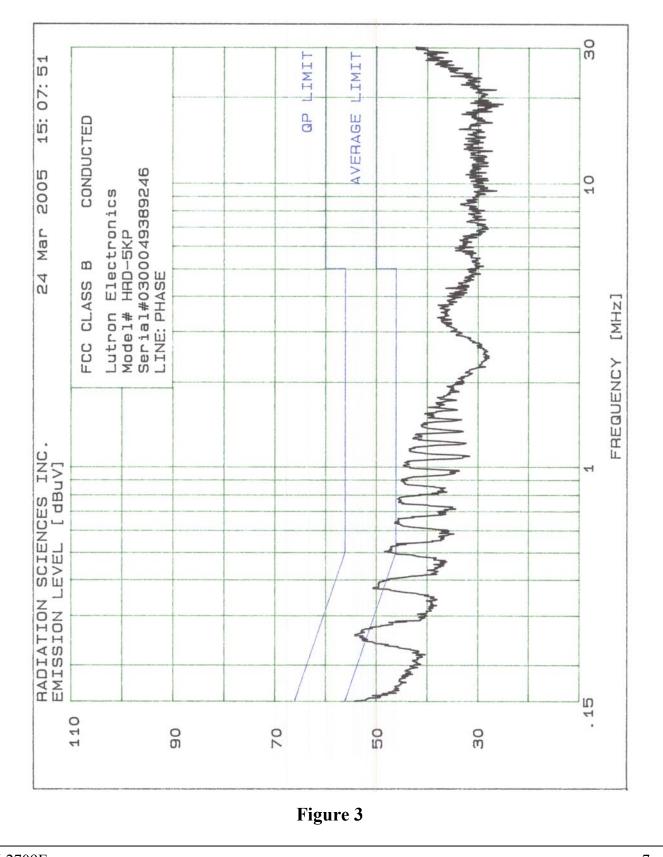
The results of the line-to-ground radio noise voltage measurements are shown on graphs, Figures 3 and 4 for the phase and neutral lines, respectively. Figure 5 is a data sheet presenting average detector readings for those points on the graphs shown above the limit during the automated peak search.

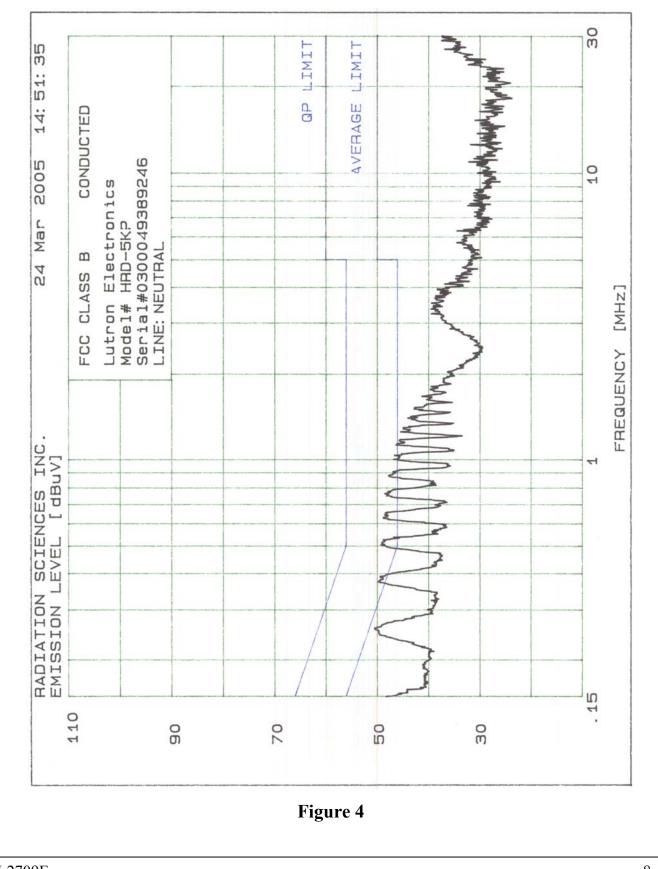
ALL LEVELS ARE BELOW THE APPLICABLE LIMITS AS SPECIFIED BY THE FCC IN PARAGRAPH 15.107.





Conducted Emissions Test Setup Photograph Figure 2





Electromagnetic	Emission Tes	st
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	Mar	ufacturer	: Lutron				3/24/05			22 1 177	Test Code	
E	Mod	lel #: HRD	-5KP			Test Instruments: RSI # 32.1, 33.1, 177, 236, 390, 494, 701,					Technician	
U T	Seri	al #: 03000)4938924	-6		, -	, - ,	,				
1	Mod	le: ON				Frequ	ency Ra	nge: .1:	50-30ME	Iz	Test Engi	neer
		ture: 70 °F y: 25 %	=	Additional	Info:					Test Spec:	FCC Class	sВ
Rac	liated	<u>d</u>		HORIZ.	BB	NB	Condu					BB
	ance:			VERT.	н	_]E			/Neutral			
Ante	enna:	0.0		Corre	ection	QP	Func				ļ	
FRI	EQ.	QP IND.	AVG IND.	Fac	tors	Fina	l Fi				Rem	arks
		Level	Level	ANT.		Leve	el Le	/el				
M	Hz	dBμV	dBμV			dBμ	V dB	uV				
	27		29.2					.2			Ph	ase
	88		31.3					.3				
	50		27.1				27					
.6	64		28.6				28	.6				7
	-							_			<u> </u>	
	25		32.5				32				Neu	u t ral
	319		31.6					.6				
	11 65		31.8 29.6					.8 .6				
	39 39		39.7					.0				
)09		26.9					.9				
	28		25.1				25					7
										├ ───		
										├		

4.2 <u>Radiated Emissions Measurements, §15.33, §15.35, §15.109, §15.205, §15.209, §15.231</u>

Radiated Emissions measurements were recorded for the test sample at a distance of 3 meters. Radiated Emissions were measured with the antenna in both the horizontal and vertical polarizations. The antenna was raised 1 to 4 meters in height and the Equipment Under Test (EUT) was rotated 360° to maximize the emission. No significant emission level changes occurred while positioning the EUT power cable.

For intentional radiators the field strength of emissions of the **EUT** were measured out to the tenth harmonic of the carrier frequency. The carrier frequency was set to 431, 434 and 437MHz.

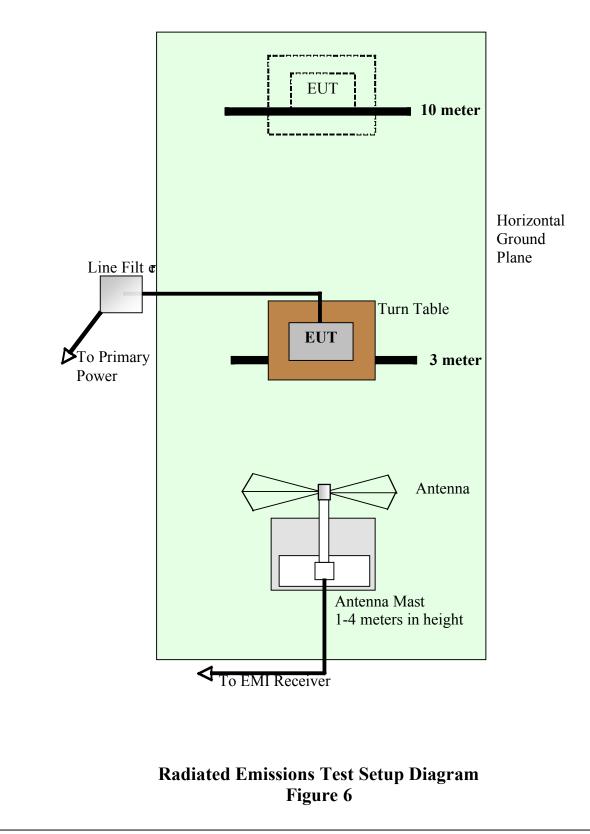
An average factor of 20dB was applied to the level of the fundamental emission when compared to the **FCC** limit.

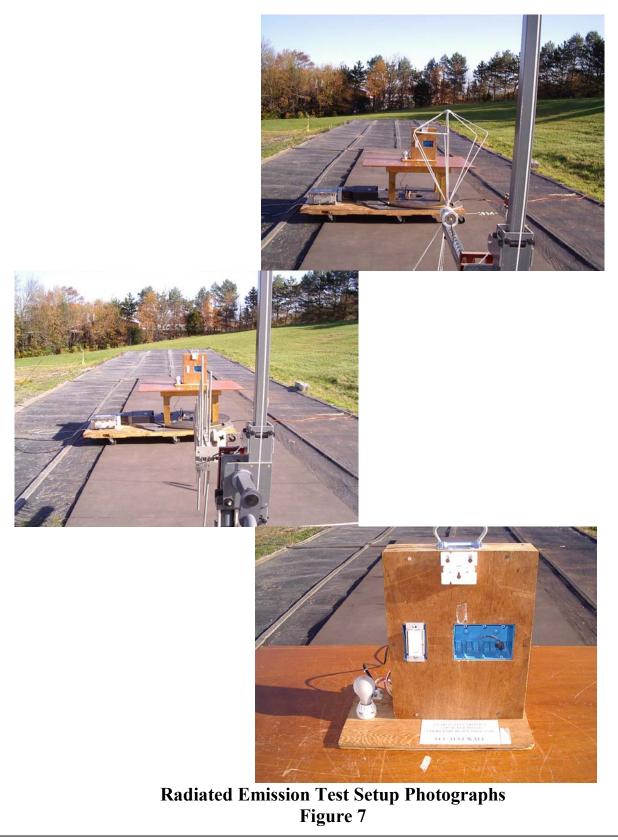
Figure 6 is a test setup diagram for Radiated Emissions and Figure 7 is a test setup photograph.

The test results for both unintentional and intentional Radiated Emissions testing are shown in the following figures:

Figure 8 Unintentional Radiated Emissions, data sheet, 431MHz Receive Mode
Figure 9 Unintentional Radiated Emissions, graph, 431MHz Receive Mode
Figure 10 Unintentional Radiated Emissions, data sheet, 437MHz Receive Mode
Figure 11 Intentional Radiated Emissions, graph, 437MHz Receive Mode
Figure 12 Intentional Radiated Emissions, data sheet, 431MHz Transmit Mode
Figure 13 Intentional Radiated Emissions, data sheet, 434MHz Transmit Mode
Figure 14 Intentional Radiated Emissions, data sheet, 437MHz Transmit Mode

ALL LEVELS COMPLY WITH THE APPLICABLE FCC LIMITS FOR RADIATED EMISSIONS PER THE APPLICABLE PARAGRAPHS.

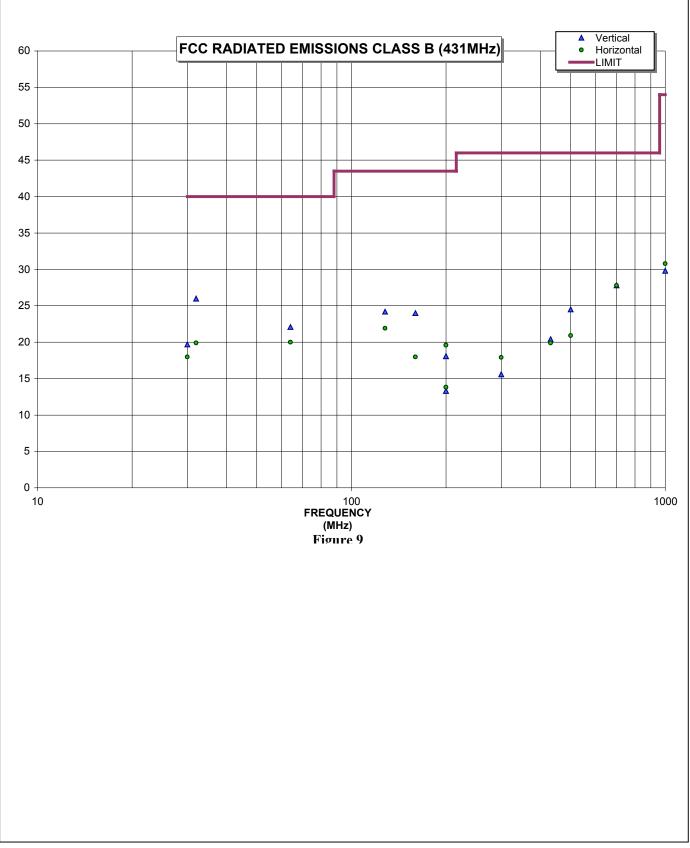




RSI-2709E

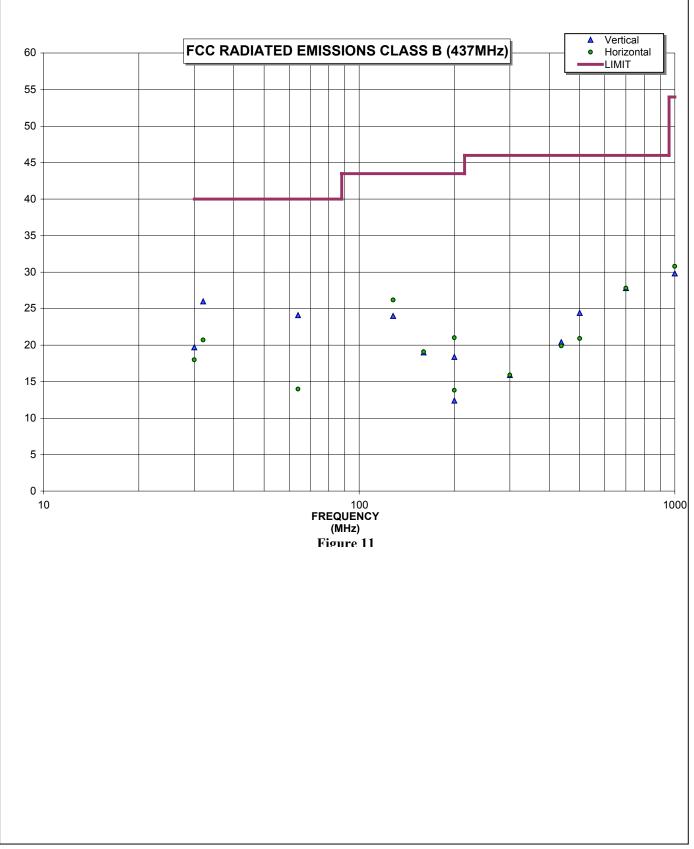
Electromagnetic	Emission	Test
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				·		Electro	omagnet	c Emission Test
	Manufacturer:	Lutron Electroni	ics		10/28/04 Istruments: R	Test Code RE		
E	Model#: HRD-5	KP			1,502,503	Technician		
U T	Serial #: 070002	062092		- ,- *	, ,			
1	Mode: Receive 4	31MHz		Freque	ency Range: 3	30MHz - 10	00MHz	Engineer
Tempe	rature: 52°F	Addition	al Info:				Test Spec:	FCC Part15, Class B
	ity: 46%			NB			Unintention	al Radiators
	stance: 3 meter				Conducted	I		BB
	a: Bicon /Log	X VERT.	∐н∣	E	Function:			ПNВ
	Ĭ	Corre						ŀ
FREQ.	IND.	Fac	tors	4	Final	Antenna	EUT Azimuth	Remarks
	Level	ANT.	Cable loss		Level	Height	Azimum	
MHz	dBμV	dB	dB		dBµV/m	Meters	Degree	Polarity/Antenna
30.0	6.7	12.0	1.0		19.7	1.0	0.0	Vertica/Bicon
32.0	12.5	12.5	1.0		26	1.0	90.0	
64.0	13.1	8.0	1.0		22.1	1.5	0.0	
128.0) 10.2	12.0	2.0		24.2	1.0	0.0	
160.0	9.0	13.0	2.0		24	1.0	0.0	
200.0	2.1	14.0	2.0		18.1	1.0	25.0	
200.0	-0.2	11.5	2.0		13.3	2.0	0.0	Vertica/LogP.
300.0) -1.4	14.0	3.0		15.6	2.0	0.0	
431.0) -1.6	18.0	4.0		20.4	2.0	0.0	
500.0	-1.5	22.0	4.0		24.5	2.0	0.0	
700.0	-0.2	22.0	6.0		27.8	2.0	0.0	
1000	-0.2	24.0	6.0		29.8	2.02	0.0	•
30.0	4.0	13.0	1.0		18	1.00	0.0	Horiz./Bicon
32.0		13.5	1.0		19.9	3.35	96.5	
64.0		9.0	1.0		20	2.67	202.6	
128.0		12.0	2.0		21.9	2.72	0.0	
160.0		12.5	2.0		18	2.72	0.0	
200.0		14.0	2.0		19.6	2.72	0.0	
200.0		12.0	2.0		13.8	2.04	180.0	Horiz./LogP.
300.0) -1.1	16.0	3.0		17.9	1.50	180.0	
431.0	-1.6	17.5	4.0		19.9	1.50	180.0	
500.0) -1.1	18.0	4.0		20.9	1.50	180.0	
700.0	0 -0.2	22.0	6.0		27.8	1.50	180.0	
	0 -0.2	25.0	6.0	1	30.8	1.00	180.0	L



Electromagnetic Emission Test

	7.5	-			-				
	Manufacturer		on Electron	nics		10/28/04 nstruments: F	Test Code RE		
E	Model#: HRD	-5KP				1,502,503	Technician		
U T	Serial #: 07000	02062	092		,	, ,			
1	Mode: Receive	e 4371	MHz		Frequ	ency Range: 3	30MHz – 10	000MHz	Engineer
Tempera	ture: 52°F		Addition	Info:					FCC Part15, Class B
Humidity								Unintentior	al Radiators
Radiated Distance:			X HORIZ		NB	Conducted	l		BB
	Bicon /Log		X VERT.	∐н∣	E	Function:			ПNВ
	<u> </u>		Corre	ction					
FREQ.	IND.		Fact			Final	Antenna	EUT	Remarks
	Level		ANT.	Cable loss		Level	Height	Azimuth	
MHz	dBμV		dB	dB		dBµV/m	Meters	Degree	Polarity/Antenna
30.0	6.7		12.0	1.0		19.7	1.0	0.0	Vertica/Bicon
32.0	12.5		12.5	1.0		26	1.0	290.0	
64.0	15.1		8.0	1.0		24.1	1.5	18.0	
128.0	10.0		12.0	2.0		24	1.0	0.0	
160.0	4.0		13.0	2.0		19	1.0	0.0	
200.0	2.4		14.0	2.0		18.4	2.04	90.0	
200.0	-1.1		11.5	2.0		12.4	2.0	0.0	Vertica/LogP.
300.0	-1.1		14.0	3.0		15.9	2.0	0.0	
437.0	-1.6		18.0	4.0		20.4	2.0	0.0	
500.0	-1.6		22.0	4.0		24.4	2.0	0.0	
700.0	-0.2		22.0	6.0		27.8	2.0	0.0	
1000	-0.2		24.0	6.0		29.8	2.02	0.0	▼
30.0	4.0		13.0	1.0		18	3.35	100	Horiz./Bicon
32.0	6.2		13.5	1.0		20.7	3.35	100	
64.0	4.0		9.0	1.0		14	3.35	123.5	
128.0	12.2		12.0	2.0		26.2	2.72	0.0	
160.0	4.6		12.5	2.0		19.1	2.72	0.0	
200.0	5.0		14.0	2.0		21	2.72	0.0	•
200.0	-0.2		12.0	2.0		13.8	2.04	180.0	Horiz./LogP.
300.0	-1.1		14.0	3.0		15.9	1.50	180.0	
437.0	-1.6		17.5	4.0		19.9	1.50	180.0	
500.0	-1.1		18.0	4.0		20.9	1.50	180.0	
700.0	-0.2		22.0	6.0		27.8	1.50	180.0	
1000.0	-0.2		25.0	6.0		30.8	1.00	180.0	★
					Fig	ure 10			



Company: Lutron Electronics Model #: HRD-5KP Fund. Freq.: 431MHz

Test Personnel: John Kavaluski Date: 10/28/04

						Distance			Field		
		Antenna		Indicated	Antenna	Factor	Cable	Averaging	Strength	Limits	
Frequency		Height	Azimuth	Level	Factor	1m to 3m	Loss	Factor	@ 3m	@ 3m	Margin
(MHz)	Polarity	(Meters)	(Degrees)	(dBuV)	(dB)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
431	Vert	1.00	335	63.3	18.0	0.0	4.0	-20.0	65.3	80.3	-15.0
862	Vert	1.00	0	30.0	23.2	0.0	5.0	-20.0	38.2	61.9	-23.7
1293	Vert	1.00	135	20.8	25.0	0.0	1.0	-20.0	26.8	61.9	-35.1
1724	Vert	1.00	0	19.8	26.0	0.0	1.0	-20.0	26.8	54.0	-27.2
2155	Vert	1.00	0	14.0	28.3	0.0	1.0	-20.0	23.3	61.9	-38.6
2586	Vert	1.00	0	19.1	29.0	0.0	1.0	-20.0	29.1	61.9	-32.8
3017	Vert	1.00	0	19.0	30.3	0.0	1.0	-20.0	30.3	61.9	-31.6
3448	Vert	1.00	0	19.0	31.4	0.0	1.0	-20.0	31.4	54.0	-22.6
3879	Vert	1.00	0	22.0	32.6	0.0	1.0	-20.0	35.6	54.0	-18.4
4310	Vert	1.00	0	22.0	32.5	0.0	1.0	-20.0	35.5	54.0	-18.5
431	Horiz	1.00	335	54.2	17.3	0.0	4.0	-20.0	55.5	80.3	-24.8
862	Horiz	1.00	0	29.1	23.5	0.0	5.0	-20.0	37.6	61.9	-24.3
1293	Horiz	1.00	135	26.0	25.0	0.0	1.0	-20.0	32.0	61.9	-29.9
1724	Horiz	1.00	0	21.0	26.6	0.0	1.0	-20.0	28.6	54.0	-25.4
2155	Horiz	1.00	0	19.0	28.0	0.0	1.0	-20.0	28.0	61.9	-33.9
2586	Horiz	1.00	0	19.5	29.0	0.0	1.0	-20.0	29.5	61.9	-32.4
3017	Horiz	1.00	0	19.0	30.4	0.0	1.0	-20.0	30.4	61.9	-31.5
3448	Horiz	1.00	0	18.0	31.5	0.0	1.0	-20.0	30.5	54.0	-23.5
3879	Horiz	1.00	0	20.0	32.7	0.0	1.0	-20.0	33.7	54.0	-20.3
4310	Horiz	1.00	0	22.0	32.6	0.0	1.0	-20.0	35.6	54.0	-18.4

Radiated Emission for Intentional Radiators



Test Personnel: John Kavaluski Date: 10/28/04

						Distance			Field		
		Antenna		Indicated	Antenna	Factor	Cable	Averaging	Strength	Limits	
Frequency		Height	Azimuth	Level	Factor	1m to 3m	Loss	Factor	@ 3m	@ 3m	Margin
(MHz)	Polarity	(Meters)	(Degrees)	(dBuV)	(dB)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
434	Vert	1.00	335	67.8	18.0	0.0	4.0	-20.0	69.8	80.3	-10.5
868	Vert	1.00	0	19.1	23.2	0.0	5.0	-20.0	27.3	61.9	-34.6
1302	Vert	1.00	135	22.0	25.0	0.0	1.0	-20.0	28.0	61.9	-33.9
1736	Vert	1.00	0	22.0	26.0	0.0	1.0	-20.0	29.0	54.0	-25.0
2170	Vert	1.00	0	16.0	28.3	0.0	1.0	-20.0	25.3	61.9	-36.6
2604	Vert	1.00	0	17.2	29.0	0.0	1.0	-20.0	27.2	61.9	-34.7
3038	Vert	1.00	0	16.9	30.3	0.0	1.0	-20.0	28.2	61.9	-33.7
3472	Vert	1.00	0	15.7	31.4	0.0	1.0	-20.0	28.1	54.0	-25.9
3909	Vert	1.00	0	17.6	32.6	0.0	1.0	-20.0	31.2	54.0	-22.8
4340	Vert	1.00	0	19.0	32.5	0.0	1.0	-20.0	32.5	54.0	-21.5
434	Horiz	1.00	335	54.1	17.3	0.0	4.0	-20.0	55.4	80.3	-24.9
868	Horiz	1.00	0	23.9	23.5	0.0	5.0	-20.0	32.4	61.9	-29.5
1302	Horiz	1.00	135	11.1	25.0	0.0	1.0	-20.0	17.1	61.9	-44.8
1736	Horiz	1.00	0	16.0	26.6	0.0	1.0	-20.0	23.6	54.0	-30.4
2170	Horiz	1.00	0	15.5	28.0	0.0	1.0	-20.0	24.5	61.9	-37.4
2604	Horiz	1.00	0	20.1	29.0	0.0	1.0	-20.0	30.1	61.9	-31.8
3038	Horiz	1.00	0	16.0	30.4	0.0	1.0	-20.0	27.4	61.9	-34.5
3472	Horiz	1.00	0	15.3	31.5	0.0	1.0	-20.0	27.8	54.0	-26.2
3909	Horiz	1.00	0	17.6	32.7	0.0	1.0	-20.0	31.3	54.0	-22.7
4340	Horiz	1.00	0	20.1	32.6	0.0	1.0	-20.0	33.7	54.0	-20.3
						Figure	. 12				

Radiated Emission for Intentional Radiators



Test Personnel: John Kavaluski Date: 10/28/04

Distance Field Antenna Indicated Antenna Factor Cable Strength Limits Averaging Frequency Azimuth 1m to 3m Height Level Factor Loss Factor @ 3m @ 3m Margin (MHz) Polarity (Meters) (Degrees) (dBuV) (dB) (dB) (dB) (dB) (dBuV/m) (dBuV/m) (dB) 437 Vert 1.00 335 66.2 18.0 0.0 4.0 -20.0 68.2 80.3 -12.1 874 Vert 1.00 0 50.0 23.2 0.0 5.0 -20.0 58.2 61.9 -3.7 1311 Vert 1.00 135 25.0 0.0 61.9 -33.1 22.8 1.0 -20.0 28.8 1748 1.00 0 26.0 0.0 1.0 54.0 -24.4 Vert 22.6 -20.0 29.6 2185 0.0 -37.2 Vert 1.00 0 15.4 28.3 1.0 -20.0 24.7 61.9 1.00 2622 Vert 0 16.7 29.0 0.0 1.0 -20.0 26.7 61.9 -35.2 -34.6 3059 Vert 1.00 0 16.0 30.3 0.0 1.0 -20.0 27.3 61.9 Vert 1.00 0 1.0 54.0 -26.4 3496 15.2 31.4 0.0 -20.0 27.6 17.8 3933 Vert 1.00 0 32.6 0.0 1.0 -20.0 31.4 54.0 -22.6 4370 Vert 1.00 0 19.6 32.5 0.0 1.0 -20.0 33.1 54.0 -20.9 431 Horiz 1.00 135 51.3 17.3 0.0 4.0 -20.0 52.6 80.3 -27.7 1.00 0.0 61.9 874 Horiz 0 52.0 23.5 5.0 -20.0 60.5 -1.4 1311 Horiz 1.00 0 22.5 25.0 0.0 28.5 61.9 -33.4 1.0 -20.0 1.00 0 1.0 54.0 -30.7 1748 Horiz 15.7 26.6 0.0 -20.0 23.3 1.00 0 2185 Horiz 17.7 28.0 0.0 1.0 -20.0 26.7 61.9 -35.2 2622 Horiz 1.00 0 16.3 29.0 0.0 1.0 -20.0 26.3 61.9 -35.6 3059 Horiz 1.00 0 16.0 30.4 0.0 1.0 -20.0 27.4 61.9 -34.5 1.00 0 15.0 31.5 0.0 1.0 -20.0 54.0 -26.5 3496 Horiz 27.5 3933 Horiz 1.00 0 16.9 32.7 0.0 1.0 -20.0 30.6 54.0 -23.4 4370 Horiz 1.00 0 18.8 32.6 0.0 1.0 -20.0 32.4 54.0 -21.6

Radiated Emission for Intentional Radiators

4.3 Bandwidth Measurements, Paragraph 15.231

Bandwidth measurements were made at the three transmit frequencies of 431, 434, and 437MHz.

The requirement states that the bandwidth shall be no wider than .25% of the center frequency at the 20dB down points. Results of testing are shown in Figures 15, 16, and 17.

THE BANDWIDTH MEASUREMENTS COMPLIED WITH THE FCC REQUIRE-MENTS SET FORTH IN PARAGRAPH 15.231.

Model # HRD-5KP Test Personnel: J Kavalusky Fund. Freq.: 431MHz Date: 10/28/04 Bandwidth of Fundamental Frequency

	Frequency (MHz)	Measurement (dBuV/m)
Center Frequency	431.0	91.15
20 dB down	431.016	71.15
20 dB down	430.980	71.25

The bandwidth is 36KHz

Allowable Bandwidth: 0.25% of Fundamental Frequency For 431MHz: $\pm 0.5388MHz$

Company: Lutron Electronics Model # HRD-5KP Fund. Freq.: 434MHz Test Personnel: J Kavalusky Date: 10/28/04

Bandwidth of Fundamental Frequency

	Frequency	Measurement
	(MHz)	(dBuV/m)
Center Frequency	434.0	82.2
20 dB down	434.014	62.0
20 dB down	433.980	62.0

The bandwidth is 34KHz

Allowable Bandwidth: 0.25% of Fundamental Frequency For 434MHz: ±0.5425MHz

Company: Lutron Electronics Model # HRD-5KP Fund. Freq.: 437MHz Test Personnel: J Kavalusky Date: 10/28/04

Bandwidth of Fundamental Frequency

	Frequency (MHz)	Measurement (dBuV/m)
Center Frequency	437.0	92.6
20 dB down	437.014	72.75
20 dB down	436.979	72.40

The bandwidth is 35KHz

Allowable Bandwidth: 0.25% of Fundamental Frequency For 437MHz: ±0.5463MHz

5.0 <u>CONCLUSIONS</u>

The evaluation of the Lutron Electronics Model #: HRD 5KP, configured as described herein, indicated that the unit complies with the requirements set forth in Subpart B and C of Part 15 of the FCC Rules for unintentional and intentional radiators.

- 1. The **EUT** meets the Conducted Emissions limits set forth in §15.107
- 2. The **EUT** meets the Radiated Emissions limits for unintentional radiators set forth in §15.109.
- 3. The **EUT** meets the Radiated Emissions limits for intentional radiators set forth in §15.205, §15.209, and §15.231 (c).