

Application for FCC Certification
On behalf of
LegenTek, Inc

Fireplace Remote control system

Model No.: LGT201TX

Serial No. : E07081022

FCC ID : VNJ201TX

Prepared For : LegenTek, Inc
67 E. Live Oak Avenue, Suite 101, Arcadia,
CA 91006, USA

Prepared By : Audix Technology (Shanghai) Co., Ltd.
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Date of Report : Aug 25, 2007

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TEST REPORT FOR FCC CERTIFICATION

Applicant : LegenTek, Inc
Manufacturer : Power-Mag (Suzhou) Electronics Co., Ltd
EUT Description : Fireplace Remote control system
(A) Model No. : LGT201TX
(B) Serial No. : E07081022
(C) Power Supply : DC 3V (Battery)
(D) Crystal Frequency : 433.92MHz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART C MAY 2007
AND ANSI C63.4:2003*

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits radiated emission.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report shows that the EUT (M/N: LGT201TX; S/N: E07081022), which was tested in 3m anechoic chamber on Aug 15-24, 2007 to be technically compliant with the FCC official limits also.

The test results for receiver part function are contained in No.: EM-F960415(ACI), a Declaration of Conformity report.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

This report contains data that are not covered by the NVLAP accreditation.

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government by the client.

Date of Test : Aug 15-24, 2007

Prepared By:

Zeno Gu 2007.09.12
ZENO GU / Assistant

Reviewer:

Sammy Chen 2007.9.12
SAMMY CHEN / Deputy Assistant Manager

AUDIX® For and on behalf of
Audix Technology (Shanghai) Co., Ltd.

Approved Signatory:

Byron Kwo
Authorized Signature EMC BYRON KWO / Manager

1 SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Description / Test Item	Test Standard	Results	Meets Limit
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART C MAY 2007 AND ANSI C63.4:2003	Pass	15.209
Fundamental and Spurious	FCC RULES AND REGULATIONS PART 15 SUBPART C MAY 2007 AND ANSI C63.4:2003	Pass	15.231 (b)
Bandwidth	FCC RULES AND REGULATIONS PART 15 SUBPART C MAY 2007 AND ANSI C63.4:2003	Pass	15.231 (c)

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description : Fireplace Remote control system

Type of EUT : ☒ Production ☐ Pre-product ☐ Pro-type

Model No. : LGT201TX

Serial No. : E07081022

Note : The EUT has 4 buttons (On/Off).
“ON” means ON Remote Control.
“OFF” means OFF Remote Control.
“SOUND ON” means Fire Crackle Sound ON.
“SOUND OFF” means Fire Crackle Sound OFF.

Applicant : LegenTek, Inc
67 E. Live Oak Avenue, Suite 101, Arcadia,
CA 91006, USA

Manufacturer : Power-Mag (Suzhou) Electronics Co., Ltd
No.3 Chunhui Road, Suzhou Industrial Park,
Suzhou City, Jiangsu Province, China

2.2 Description of Test Facility

Site Description (Semi-Anechoic Chamber) : Sept. 17, 1998 file on
August 15, 2003 Renewed
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046, USA

Name of Firm : Audix Technology (Shanghai) Co., Ltd.

Site Location : 3F 34Bldg 680 Guiping Rd.,
Caohejing Hi-Tech Park,
Shanghai, China 200233

FCC registration Number : 91789

Accredited by NVLAP, Lab Code : 200371-0

2.3 Measurement Uncertainty

Radiated Emission Expanded Uncertainty : U = 2.96dB

3 RADIATED EMISSION TEST

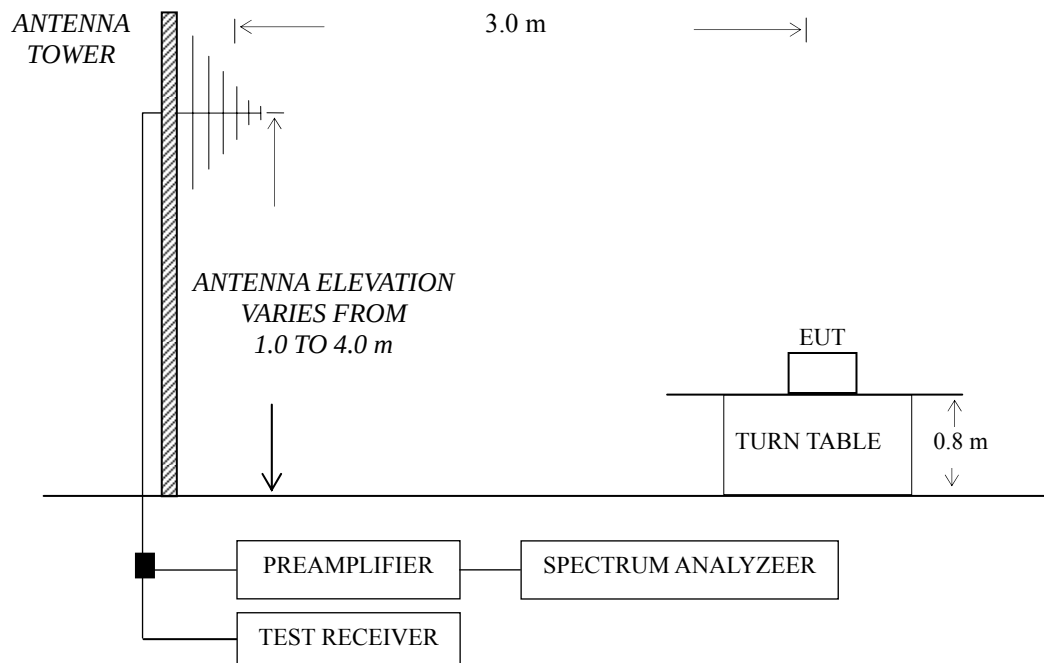
3.1 Test Equipment

The following test equipment are used during the radiated emission test in a semi-anechoic chamber:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E7405A	MY45106600	Apr 06, 2007	Apr 06, 2008
2.	Bilog Antenna	Chase	CBL6111	1145	Mar 18, 2007	Sep 18, 2007
3.	Test Receiver	R&S	ESVS10	844594/001	Apr 06, 2007	Apr 06, 2008
4.	Preamplifier	HP	8447D	2944A10548	Mar 19, 2007	Sep 19, 2007
5.	Preamplifier	HP	8449B	3008A00864	Apr 06, 2007	Apr 06, 2008
6.	Horn Antenna	EMCO	3115	9607-4878	Apr 06, 2007	Apr 06, 2008
7.	50ΩCoaxial Switch	ANRITSU	MP59B	6200426390	Mar 18, 2007	Sep 18, 2007
8.	Software	Audix	E3	SET00200 9912M295-2	--	--

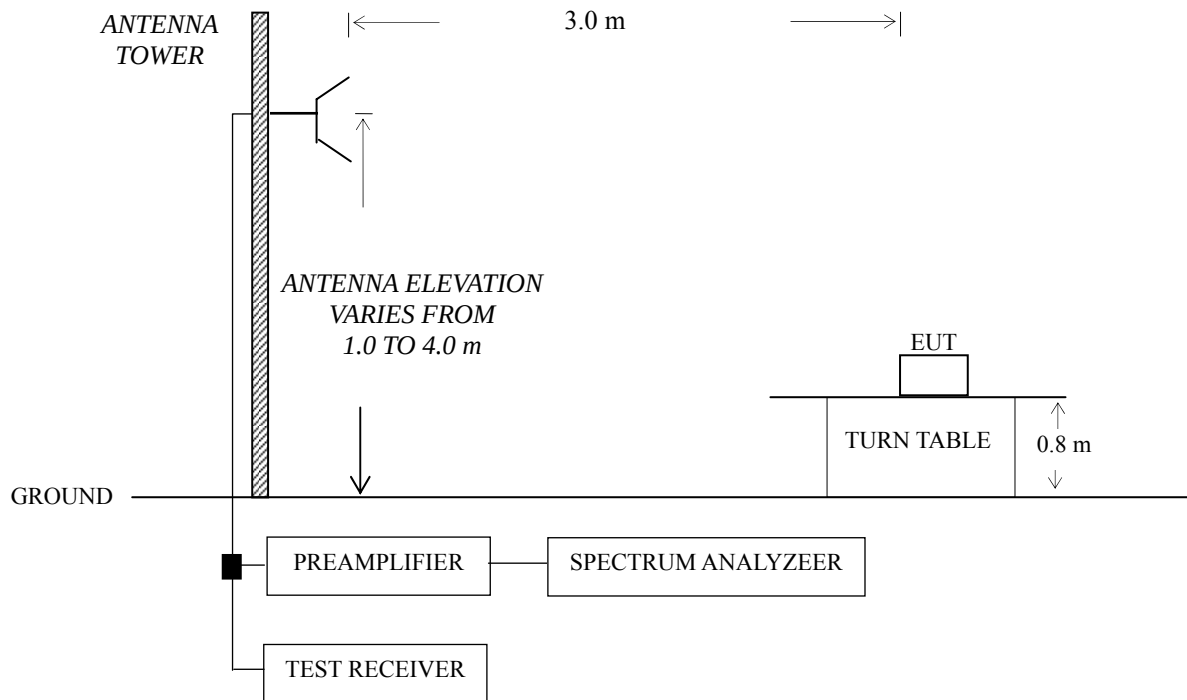
3.2 Block Diagram of Test Setup

For Low Frequency:



■ : 50 ohm Coaxial Switch

For High Frequency:



3.3 Radiated Emission Limit

Frequency (MHz)	Distance (m)	Field strength limits (μV/m)	
		(μV/m)	dB (μV/m)
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0

NOTE 1 - Emission Level dB (μV/m) = 20 lg Emission Level (μV/m)

NOTE 2 - The tighter limit applies at the band edges.

NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3.4 Test Configuration

The EUT was installed as show on Sec. 3.2 in radiated emission test to meet FCC requirement and operating in a manner, which tend to maximize emission level in a normal application.

3.5 Operating Condition of EUT

- 3.5.1 Setup the EUT as shown in Sec. 3.2.
- 3.5.2 Press one of the buttons and make it transmit continuously. Then test it one by one.
- 3.5.3 Set the EUT on the test modes, and then test.

3.6 Test Procedures

The EUT was placed on a turntable, which is 0.8 meter above the ground. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (Calibrated Bilog Antenna or Horn Antenna) was used as a receiving antenna. Both horizontal and vertical polarization of the antenna was set on measurement. In order to find the maximum emission, all of the interference cables were manipulated.

The IF bandwidth setting on Test Receiver ESVS10 was 120 kHz when the frequency range from 30MHz to 1GHz was checked.

The IF bandwidth setting on Spectrum analyzer E7405A was 1MHz when the frequency range from 1G MHz to 2GHz was checked.

The test modes are as follows:

On Lying	On Side	On Stand
Off Lying	Off Side	Off Stand
Sound On Lying	Sound On Side	Sound On Stand
Sound Off Lying	Sound Off Side	Sound Off Stand

The test modes were done on radiated disturbance test.

Please refer to Sec.3.7.

3.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

Test Mode	Data Page	Test Mode	Data Page
On Lying	P10	Sound On Lying	P16
On Side	P11	Sound On Side	P17
On Stand	P12	Sound On Stand	P18
Off Lying	P13	Sound Off Lying	P19
Off Side	P14	Sound Off Side	P20
Off Stand	P15	Sound Off Stand	P21

NOTE 1 – Emission Level = Meter Reading + Antenna Factor + Cable Loss
– Preamp Factor.

NOTE 2 – The readings that below 1000 MHz are Quasi-Peak values and above 1GHz are Peak values.
Because the level has 20dB margin against peak limit line so the Average value are omitted.

NOTE 4 - 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 5 - The worst emission at horizontal polarization was detected at 901.06 MHz (Test Mode: Off Stand) with corrected signal level of 31.99 dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was height 1.00m and the turntable was at 30°.

NOTE 6 - The worst emission at vertical polarization was detected at 580.96 MHz (Test Mode: Off Stand) with corrected signal level of 27.98 dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was height 1.00m and the turntable was at 330°.

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : On Lying

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	30.97	1.68	16.76	--	0.91	17.67	19.35	40.00	-20.65	QP
	64.92	0.95	11.72	--	1.32	13.04	13.99	40.00	-26.01	
	104.69	0.57	11.02	--	1.73	12.75	13.32	43.5	-30.18	
	211.39	0.79	13.28	--	2.46	15.74	16.53	43.5	-26.97	
	378.23	2.8	17.05	--	3.52	20.57	23.37	46.00	-22.63	
	579.02	1.06	20.75	--	4.19	24.94	26.00	46.00	-20.00	PK
	1053.00	45.55	24.36	37.55	6.79	-6.40	39.15	74.00	-34.85	
	1223.00	45.15	25.12	37.12	7.24	-4.76	40.39	74.00	-33.61	
	1459.00	44.13	26.01	36.61	8.26	-2.34	41.79	74.00	-32.21	
	1627.00	43.38	26.55	36.30	8.78	-0.97	42.41	74.00	-31.59	
	1763.00	43.29	26.96	36.06	9.24	0.14	43.43	74.00	-30.57	
	1938.00	43.87	27.44	35.79	9.73	1.38	45.25	74.00	-28.75	
Vertical	31.94	1.41	15.5	--	0.92	16.42	17.83	40.00	-22.17	QP
	70.74	0.43	12.36	--	1.43	13.79	14.22	40.00	-25.78	
	104.69	1.58	11.02	--	1.73	12.75	14.33	43.50	-29.17	
	216.24	1.97	13.35	--	2.5	15.85	17.82	46.00	-28.18	
	557.68	1.69	20.56	--	4.14	24.7	26.39	46.00	-19.61	
	809.88	0.73	23.77	--	5.42	29.19	29.92	46.00	-16.08	PK
	1074.00	44.83	24.46	37.49	6.85	-6.18	38.65	74.00	-35.35	
	1240.00	45.07	25.18	37.08	7.33	-4.57	40.5	74.00	-33.50	
	1388.00	44.31	25.75	36.76	7.92	-3.09	41.22	74.00	-32.78	
	1545.00	43.62	26.30	36.44	8.57	-1.57	42.05	74.00	-31.95	
	1762.00	43.31	26.96	36.06	9.24	0.14	43.45	74.00	-30.55	
	1891.00	43.87	27.31	35.86	9.65	1.10	44.97	74.00	-29.03	

TEST ENGINEER: DIO YANG

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : On Side

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	30.97	1.13	16.76	--	0.91	17.67	18.8	40.00	-21.20	QP
	67.83	0.12	12.10	--	1.37	13.47	13.59	40.00	-26.41	
	116.33	0.30	11.63	--	1.83	13.46	13.76	43.5	-29.74	
	264.74	1.94	13.66	--	2.89	16.55	18.49	46.00	-27.51	
	381.14	1.63	17.17	--	3.52	20.69	22.32	46.00	-23.68	
	640.13	0.70	21.04	--	4.49	25.53	26.23	46.00	-19.77	PK
	1039.00	45.2	24.29	37.59	6.76	-6.54	38.66	74.00	-35.34	
	1153.00	44.68	24.81	37.28	7.01	-5.46	39.22	74.00	-34.78	
	1260.00	44.26	25.27	37.03	7.41	-4.35	39.91	74.00	-34.09	
	1446.00	43.68	25.97	36.64	8.18	-2.49	41.19	74.00	-32.81	
Vertical	1620.00	43.55	26.54	36.31	8.78	-0.99	42.56	74.00	-31.44	QP
	1923.00	43.21	27.40	35.81	9.73	1.32	44.53	74.00	-29.47	
	30.97	1.47	16.76	--	0.91	17.67	19.14	40.00	-20.86	
	67.83	0.30	12.10	--	1.37	13.47	13.77	40.00	-26.23	
	143.49	4.00	11.25	--	2.03	13.28	17.28	43.50	-26.22	
	259.89	1.16	13.72	--	2.88	16.6	17.76	46.00	-28.24	PK
	395.69	1.83	17.81	--	3.59	21.4	23.23	46.00	-22.77	
	547.98	2.24	20.48	--	4.11	24.59	26.83	46.00	-19.17	
	1063.00	45.19	24.41	37.53	6.82	-6.30	38.89	74.00	-35.11	
	1179.00	45.55	24.93	37.22	7.04	-5.25	40.30	74.00	-33.70	
	1378.00	44.14	25.72	36.77	7.92	-3.13	41.01	74.00	-32.99	PK
	1508.00	44.01	26.17	36.51	8.43	-1.91	42.10	74.00	-31.90	
	1633.00	43.84	26.58	36.28	8.85	-0.85	42.99	74.00	-31.01	
	1787.00	43.03	27.03	36.02	9.32	0.33	43.36	74.00	-30.64	

TEST ENGINEER: DIO YANG

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : On Stand

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	32.91	0.87	14.38	--	0.92	15.30	16.17	40.00	-23.83	QP
	64.92	-0.04	11.72	--	1.32	13.04	13.00	40.00	-27.00	
	124.09	0.25	12.02	--	1.90	13.92	14.17	43.50	-29.33	
	244.37	0.40	13.77	--	2.75	16.52	16.92	46.00	-29.08	
	523.73	0.67	20.27	--	4.06	24.33	25.00	46.00	-21.00	
	917.55	0.22	23.04	--	5.73	28.77	28.99	46.00	-17.01	
	1065.00	44.82	24.42	37.52	6.82	-6.28	38.54	74.00	-35.46	PK
	1183.00	44.12	24.95	37.22	7.04	-5.23	38.89	74.00	-35.11	
	1274.00	44.83	25.33	37.00	7.41	-4.26	40.57	74.00	-33.43	
	1445.00	43.59	25.95	36.64	8.18	-2.51	41.08	74.00	-32.92	
	1597.00	43.27	26.46	36.35	8.71	-1.18	42.09	74.00	-31.91	
	1680.00	43.66	26.71	36.20	8.99	-0.50	43.16	74.00	-30.84	
Vertical	31.94	1.55	15.50	--	0.92	16.42	17.97	40.00	-22.03	QP
	76.56	-0.10	12.28	--	1.49	13.77	13.67	40.00	-26.33	
	176.47	0.10	11.31	--	2.22	13.53	13.63	43.50	-29.87	
	288.99	1.25	13.35	--	3.05	16.4	17.65	46.00	-28.35	
	518.88	0.89	20.22	--	4.04	24.26	25.15	46.00	-20.85	
	831.22	0.22	23.56	--	5.47	29.03	29.25	46.00	-16.75	
	1079.00	44.52	24.48	37.48	6.85	-6.15	38.37	74.00	-35.63	PK
	1238.00	44.49	25.18	37.09	7.24	-4.67	39.82	74.00	-34.18	
	1410.00	43.23	25.84	36.7	8.01	-2.85	40.38	74.00	-33.62	
	1620.00	42.55	26.54	36.31	8.78	-0.99	41.56	74.00	-32.44	
	1797.00	43.04	27.06	36.00	9.32	0.38	43.42	74.00	-30.58	
	1926.00	43.23	27.41	35.80	9.73	1.34	44.57	74.00	-29.43	

TEST ENGINEER: DIO YANG

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : Off Lying

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	51.34	3.16	9.21	--	1.02	10.23	13.39	40.00	-26.61	QP
	114.39	3.32	11.55	--	1.81	13.36	16.68	43.50	-26.82	
	196.84	2.67	12.84	--	2.31	15.15	17.82	43.50	-25.68	
	317.12	4.07	14.09	--	3.21	17.30	21.37	46.00	-24.63	
	580.96	3.20	20.77	--	4.19	24.96	28.16	46.00	-17.84	
	794.36	2.93	23.75	--	5.36	29.11	32.04	46.00	-13.96	
	1045.00	45.58	24.32	37.57	6.79	-6.46	39.12	74.00	-34.88	PK
	1143.00	45.33	24.77	37.31	6.98	-5.56	39.77	74.00	-34.23	
	1250.00	44.89	25.22	37.06	7.33	-4.51	40.38	74.00	-33.62	
	1414.00	44.71	25.85	36.70	8.09	-2.76	41.95	74.00	-32.05	
	1590.00	43.73	26.43	36.36	8.71	-1.22	42.51	74.00	-31.49	
	1795.00	43.62	27.05	36.01	9.32	0.36	43.98	74.00	-30.02	
Vertical	32.91	6.25	14.38	--	0.92	15.30	21.55	40.00	-18.45	QP
	63.95	2.99	11.6	--	1.31	12.91	15.90	40.00	-24.10	
	117.30	2.61	11.69	--	1.84	13.53	16.14	43.50	-27.36	
	236.61	2.97	13.66	--	2.68	16.34	19.31	46.00	-26.69	
	447.1	3.97	18.99	--	3.80	22.79	26.76	46.00	-19.24	
	653.71	2.54	21.08	--	4.56	25.64	28.18	46.00	-17.82	
	1045.00	45.44	24.32	37.57	6.79	-6.46	38.98	74.00	-35.02	PK
	1183.00	45.20	24.95	37.22	7.04	-5.23	39.97	74.00	-34.03	
	1392.00	44.17	25.76	36.75	8.01	-2.98	41.19	74.00	-32.81	
	1527.00	44.34	26.23	36.48	8.50	-1.75	42.59	74.00	-31.41	
	1712.00	43.90	26.81	36.15	9.07	-0.27	43.63	74.00	-30.37	
	1894.00	43.90	27.32	35.86	9.65	1.11	45.01	74.00	-28.99	

TEST ENGINEER: DIO YANG

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : Off Side

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	53.28	2.50	9.66	--	1.07	10.73	13.23	40.00	-26.77	QP
	91.11	2.65	10.89	--	1.62	12.51	15.16	43.50	-28.34	
	136.70	2.79	11.52	--	1.98	13.50	16.29	43.50	-27.21	
	263.77	3.00	13.67	--	2.89	16.56	19.56	46.00	-26.44	
	465.53	3.03	19.38	--	3.87	23.25	26.28	46.00	-19.72	
	709.00	2.95	21.48	--	4.86	26.34	29.29	46.00	-16.71	PK
	1021.00	45.46	24.20	37.64	6.73	-6.71	38.75	74.00	-35.25	
	1169.00	45.64	24.89	37.25	7.04	-5.32	40.32	74.00	-33.68	
	1369.00	44.71	25.69	36.79	7.84	-3.26	41.45	74.00	-32.55	
	1531.00	45.34	26.24	36.47	8.5	-1.73	43.61	74.00	-30.39	
	1686.00	43.75	26.74	36.19	8.99	-0.46	43.29	74.00	-30.71	
	1792.00	43.87	27.05	36.01	9.32	0.36	44.23	74.00	-29.77	
Vertical	33.88	7.49	13.12	--	0.93	14.05	21.54	40.00	-18.46	PK
	55.22	2.76	10.07	--	1.12	11.19	13.95	40.00	-26.05	
	128.94	2.75	11.87	--	1.94	13.81	16.56	43.5	-26.94	
	216.24	3.39	13.35	--	2.50	15.85	19.24	46.00	-26.76	
	370.47	3.68	16.70	--	3.48	20.18	23.86	46.00	-22.14	
	709.00	2.64	21.48	--	4.86	26.34	28.98	46.00	-17.02	
	1050.00	45.17	24.35	37.56	6.79	-6.42	38.75	74.00	-35.25	
	1170.00	45.31	24.89	37.25	7.04	-5.32	39.99	74.00	-34.01	
	1338.00	44.45	25.57	36.86	7.75	-3.54	40.91	74.00	-33.09	
	1519.00	43.85	26.21	36.49	8.50	-1.78	42.07	74.00	-31.93	
	1686.00	43.79	26.74	36.19	8.99	-0.46	43.33	74.00	-30.67	
	1913.00	44.06	27.37	35.82	9.65	1.20	45.26	74.00	-28.74	

TEST ENGINEER: DIO YANG

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : Off Stand

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	31.94	4.49	15.50	--	0.92	16.42	20.91	40.00	-19.09	QP
	75.59	2.26	12.29	--	1.47	13.76	16.02	40.00	-23.98	
	132.82	2.52	11.71	--	1.97	13.68	16.2	43.50	-27.3	
	307.42	4.05	13.63	--	3.16	16.79	20.84	46.00	-25.16	
	533.43	3.10	20.36	--	4.07	24.43	27.53	46.00	-18.47	
	901.06	3.43	22.86	--	5.70	28.56	31.99	46.00	-14.01	
	1046.00	45.20	24.33	37.57	6.79	-6.45	38.75	74.00	-35.25	PK
	1137.00	45.61	24.74	37.33	6.98	-5.61	40.00	74.00	-34.00	
	1248.00	44.60	25.22	37.06	7.33	-4.51	40.09	74.00	-33.91	
	1405.00	44.19	25.82	36.71	8.01	-2.88	41.31	74.00	-32.69	
	1571.00	43.83	26.38	36.39	8.64	-1.37	42.46	74.00	-31.54	
	1798.00	44.34	27.06	36.00	9.32	0.38	44.72	74.00	-29.28	
Vertical	33.88	6.22	13.12	--	0.93	14.05	20.27	40.00	-19.73	QP
	67.83	3.17	12.10	--	1.37	13.47	16.64	40.00	-23.36	
	130.88	2.51	11.79	--	1.95	13.74	16.25	43.50	-27.25	
	231.76	3.15	13.59	--	2.64	16.23	19.38	46.00	-26.62	
	408.30	3.70	18.18	--	3.64	21.82	25.52	46.00	-20.48	
	580.96	3.02	20.77	--	4.19	24.96	27.98	46.00	-18.02	
	1048.00	45.98	24.33	37.56	6.79	-6.44	39.54	74.00	-34.46	PK
	1184.00	44.54	24.95	37.22	7.04	-5.23	39.31	74.00	-34.69	
	1357.00	44.91	25.65	36.82	7.84	-3.33	41.58	74.00	-32.42	
	1631.00	43.35	26.56	36.29	8.85	-0.88	42.47	74.00	-31.53	
	1813.00	44.27	27.10	35.98	9.40	0.52	44.79	74.00	-29.21	
	1944.00	42.48	27.45	35.78	9.81	1.48	43.96	74.00	-30.04	

TEST ENGINEER: DIO YANG

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : Sound On Lying

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	33.88	1.51	13.12	--	0.93	14.05	15.56	40.00	-24.44	QP
	80.44	0.15	12.19	--	1.52	13.71	13.86	40.00	-26.14	
	153.19	3.27	11.01	--	2.1	13.11	16.38	43.50	-27.12	
	232.73	-0.05	13.60	--	2.64	16.24	16.19	46.00	-29.81	
	361.74	1.96	16.30	--	3.43	19.73	21.69	46.00	-24.31	
	710.94	2.21	21.55	--	4.9	26.45	28.66	46.00	-17.34	
	1059.00	45.99	24.39	37.54	6.82	-6.33	39.66	74.00	-34.34	PK
	1132.00	45.18	24.73	37.35	6.95	-5.67	39.51	74.00	-34.49	
	1232.00	45.13	25.15	37.09	7.24	-4.70	40.43	74.00	-33.57	
	1397.00	44.19	25.79	36.73	8.01	-2.93	41.26	74.00	-32.74	
	1677.00	44.15	26.71	36.2	8.92	-0.57	43.58	74.00	-30.42	
	1767.00	44.06	26.97	36.05	9.24	0.16	44.22	74.00	-29.78	
Vertical	51.34	9.54	9.21	--	1.02	10.23	19.77	40.00	-20.23	QP
	80.44	3.31	12.19	--	1.52	13.71	17.02	40.00	-22.98	
	153.19	4.20	11.01	--	2.10	13.11	17.31	43.50	-26.19	
	256.98	-0.06	13.75	--	2.84	16.59	16.53	46.00	-29.47	
	526.64	4.26	20.29	--	4.06	24.35	28.61	46.00	-17.39	
	795.33	-0.35	23.82	--	5.36	29.18	28.83	46.00	-17.17	
	1095.00	45.24	24.55	37.44	6.89	-6.00	39.24	74.00	-34.76	PK
	1227.00	45.59	25.14	37.11	7.24	-4.73	40.86	74.00	-33.14	
	1383.00	44.52	25.73	36.76	7.92	-3.11	41.41	74.00	-32.59	
	1550.00	43.60	26.32	36.44	8.57	-1.55	42.05	74.00	-31.95	
	1795.00	43.40	27.05	36.01	9.32	0.36	43.76	74.00	-30.24	
	1934.00	44.54	27.43	35.80	9.73	1.36	45.90	74.00	-28.10	

TEST ENGINEER: DIO YANG

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : Sound On Side

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	46.49	6.41	7.82	--	0.98	8.80	15.21	40.00	-24.79	QP
	72.68	-0.14	12.33	--	1.44	13.77	13.63	40.00	-26.37	
	153.19	3.84	11.01	--	2.1	13.11	16.95	43.50	-26.55	
	279.29	0.08	13.47	--	3.00	16.47	16.55	46.00	-29.45	
	378.23	1.83	17.05	--	3.52	20.57	22.40	46.00	-23.60	
	526.64	1.85	20.29	--	4.06	24.35	26.2	46.00	-19.80	
	1062.00	45.76	24.41	37.53	6.82	-6.30	39.46	74.00	-34.54	PK
	1138.00	45.07	24.76	37.33	6.98	-5.59	39.48	74.00	-34.52	
	1244.00	44.89	25.21	37.07	7.33	-4.53	40.36	74.00	-33.64	
	1424.00	44.11	25.88	36.68	8.09	-2.71	41.40	74.00	-32.60	
	1594.00	44.37	26.45	36.35	8.71	-1.19	43.18	74.00	-30.82	
	1784.00	44.33	27.02	36.03	9.32	0.31	44.64	74.00	-29.36	
Vertical	33.88	4.89	13.12	--	0.93	14.05	18.94	40.00	-21.06	QP
	56.19	3.92	10.28	--	1.13	11.41	15.33	40.00	-24.67	
	124.09	-0.47	12.02	--	1.90	13.92	13.45	43.50	-30.05	
	261.83	-0.45	13.69	--	2.88	16.57	16.12	46.00	-29.88	
	363.68	2.45	16.41	--	3.45	19.86	22.31	46.00	-23.69	
	526.64	3.72	20.29	--	4.06	24.35	28.07	46.00	-17.93	
	1075.00	45.02	24.46	37.49	6.85	-6.18	38.84	74.00	-35.16	PK
	1133.00	45.10	24.73	37.34	6.95	-5.66	39.44	74.00	-34.56	
	1221.00	44.66	25.11	37.12	7.24	-4.77	39.89	74.00	-34.11	
	1422.00	44.60	25.88	36.68	8.09	-2.71	41.89	74.00	-32.11	
	1569.00	44.35	26.38	36.40	8.64	-1.38	42.97	74.00	-31.03	
	1784.00	43.91	27.02	36.03	9.32	0.31	44.22	74.00	-29.78	

TEST ENGINEER: DIO YANG

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : Sound On Stand

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	48.43	16.24	8.45	--	0.98	9.43	25.67	40.00	-14.33	QP
	87.23	4.05	11.27	--	1.59	12.86	16.91	40.00	-23.09	
	153.19	3.94	11.01	--	2.1	13.11	17.05	43.50	-26.45	
	279.29	5.91	13.47	--	3.00	16.47	22.38	46.00	-23.62	
	526.64	1.48	20.29	--	4.06	24.35	25.83	46.00	-20.17	
	788.54	-0.44	23.61	--	5.32	28.93	28.49	46.00	-17.51	
	1059.00	45.99	24.39	37.54	6.82	-6.33	39.66	74.00	-34.34	PK
	1132.00	45.18	24.73	37.35	6.95	-5.67	39.51	74.00	-34.49	
	1232.00	45.13	25.15	37.09	7.24	-4.70	40.43	74.00	-33.57	
	1397.00	44.19	25.79	36.73	8.01	-2.93	41.26	74.00	-32.74	
	1677.00	44.15	26.71	36.2	8.92	-0.57	43.58	74.00	-30.42	
	1767.00	44.06	26.97	36.05	9.24	0.16	44.22	74.00	-29.78	
Vertical	51.34	9.54	9.21	--	1.02	10.23	19.77	40.00	-20.23	QP
	80.44	3.31	12.19	--	1.52	13.71	17.02	40.00	-22.98	
	153.19	4.20	11.01	--	2.10	13.11	17.31	43.50	-26.19	
	256.98	-0.06	13.75	--	2.84	16.59	16.53	46.00	-29.47	
	526.64	4.26	20.29	--	4.06	24.35	28.61	46.00	-17.39	
	795.33	-0.35	23.82	--	5.36	29.18	28.83	46.00	-17.17	
	1079.00	45.73	24.48	37.48	6.85	-6.15	39.58	74.00	-34.42	PK
	1252.00	45.57	25.24	37.05	7.33	-4.48	41.09	74.00	-32.91	
	1429.00	44.85	25.91	36.67	8.09	-2.67	42.18	74.00	-31.82	
	1612.00	44.69	26.51	36.32	8.78	-1.03	43.66	74.00	-30.34	
	1757.00	44.50	26.94	36.07	9.24	0.11	44.61	74.00	-29.39	
	1902.00	44.13	27.34	35.84	9.65	1.15	45.28	74.00	-28.72	

TEST ENGINEER: DIO YANG

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : Sound Off Lying

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	48.43	9.33	8.45	--	0.98	9.43	18.76	40.00	-21.24	QP
	82.38	1.41	11.91	--	1.54	13.45	14.86	40.00	-25.14	
	153.19	2.91	11.01	--	2.10	13.11	16.02	43.50	-27.48	
	310.33	0.25	13.74	--	3.18	16.92	17.17	46.00	-28.83	
	526.64	0.79	20.29	--	4.06	24.35	25.14	46.00	-20.86	
	710.94	2.68	21.55	--	4.90	26.45	29.13	46.00	-16.87	
	1134.00	45.27	24.74	37.34	6.95	-5.65	39.62	74.00	-34.38	PK
	1230.00	44.88	25.15	37.1	7.24	-4.71	40.17	74.00	-33.83	
	1423.00	43.87	25.88	36.68	8.09	-2.71	41.16	74.00	-32.84	
	1595.00	43.53	26.46	36.35	8.71	-1.18	42.35	74.00	-31.65	
	1773.00	42.99	26.99	36.05	9.24	0.18	43.17	74.00	-30.83	
	1980.00	42.84	27.54	35.73	9.9	1.71	44.55	74.00	-29.45	
Vertical	33.88	6.14	13.12	--	0.93	14.05	20.19	40.00	-19.81	QP
	62.98	4.41	11.45	--	1.28	12.73	17.14	40.00	-22.86	
	153.19	3.79	11.01	--	2.1	13.11	16.90	43.50	-26.60	
	295.78	0.21	13.27	--	3.1	16.37	16.58	46.00	-29.42	
	526.64	4.03	20.29	--	4.06	24.35	28.38	46.00	-17.62	
	759.44	-0.35	22.9	--	5.15	28.05	27.70	46.00	-18.30	
	1076.00	44.89	24.46	37.49	6.85	-6.18	38.71	74.00	-35.29	PK
	1192.00	45.23	24.99	37.19	7.07	-5.13	40.10	74.00	-33.90	
	1385.00	44.8	25.75	36.76	7.92	-3.09	41.71	74.00	-32.29	
	1538.00	44.17	26.27	36.45	8.5	-1.68	42.49	74.00	-31.51	
	1664.00	44.94	26.67	36.23	8.92	-0.64	44.30	74.00	-29.70	
	1894.00	44.68	27.32	35.86	9.65	1.11	45.79	74.00	-28.21	

TEST ENGINEER: DIO YANG

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : Sound Off Side

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	30.97	0.10	16.76	--	0.91	17.67	17.77	40.00	-22.23	QP
	58.13	5.18	10.69	--	1.18	11.87	17.05	40.00	-22.95	
	85.29	-0.98	11.51	--	1.57	13.08	12.10	40.00	-27.90	
	162.89	2.38	11.10	--	2.15	13.25	15.63	43.50	-27.87	
	279.29	4.71	13.47	--	3.00	16.47	21.18	46.00	-24.82	
	710.94	3.25	21.55	--	4.90	26.45	29.70	46.00	-16.30	
	1071.00	45.06	24.45	37.50	6.85	-6.20	38.86	74.00	-35.14	PK
	1177.00	45.17	24.92	37.23	7.04	-5.27	39.90	74.00	-34.10	
	1394.00	44.11	25.78	36.74	8.01	-2.95	41.16	74.00	-32.84	
	1588.00	43.63	26.43	36.37	8.71	-1.23	42.40	74.00	-31.60	
	1674.00	44.46	26.70	36.21	8.92	-0.59	43.87	74.00	-30.13	
	1787.00	43.50	27.03	36.02	9.32	0.33	43.83	74.00	-30.17	
Vertical	33.88	5.98	13.12	--	0.93	14.05	20.03	40.00	-19.97	QP
	56.19	5.38	10.28	--	1.13	11.41	16.79	40.00	-23.21	
	153.19	4.77	11.01	--	2.10	13.11	17.88	43.50	-25.62	
	279.29	8.99	13.47	--	3.00	16.47	25.46	46.00	-20.54	
	526.64	3.77	20.29	--	4.06	24.35	28.12	46.00	-17.88	
	710.94	2.64	21.55	--	4.90	26.45	29.09	46.00	-16.91	
	1055.00	45.75	24.38	37.54	6.79	-6.37	39.38	74.00	-34.62	PK
	1166.00	45.01	24.87	37.26	7.01	-5.38	39.63	74.00	-34.37	
	1365.00	43.99	25.68	36.80	7.84	-3.28	40.71	74.00	-33.29	
	1557.00	44.09	26.33	36.42	8.57	-1.52	42.57	74.00	-31.43	
	1701.00	43.73	26.78	36.17	8.99	-0.40	43.33	74.00	-30.67	
	1800.00	44.70	27.06	36.00	9.32	0.38	45.08	74.00	-28.92	

TEST ENGINEER: DIO YANG

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : Sound Off Stand

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	32.91	0.77	14.38	--	0.92	15.30	16.07	40.00	-23.93	QP
	77.53	-1.02	12.26	--	1.50	13.76	12.74	40.00	-27.26	
	153.19	3.46	11.01	--	2.10	13.11	16.57	43.50	-26.93	
	266.68	-0.13	13.63	--	2.91	16.54	16.41	46.00	-29.59	
	363.68	2.10	16.41	--	3.45	19.86	21.96	46.00	-24.04	
	526.64	1.80	20.29	--	4.06	24.35	26.15	46.00	-19.85	
	1059.00	45.52	24.39	37.54	6.82	-6.33	39.19	74.00	-34.81	PK
	1154.00	44.06	24.83	37.28	7.01	-5.44	38.62	74.00	-35.38	
	1261.00	44.25	25.27	37.03	7.41	-4.35	39.90	74.00	-34.10	
	1476.00	43.84	26.07	36.57	8.35	-2.15	41.69	74.00	-32.31	
	1548.00	43.65	26.30	36.44	8.57	-1.57	42.08	74.00	-31.92	
	1768.00	42.79	26.97	36.05	9.24	0.16	42.95	74.00	-31.05	
Vertical	33.88	6.28	13.12	--	0.93	14.05	20.33	40.00	-19.67	QP
	56.19	5.89	10.28	--	1.13	11.41	17.30	40.00	-22.70	
	162.89	4.31	11.10	--	2.15	13.25	17.56	43.50	-25.94	
	361.74	3.50	16.3	--	3.43	19.73	23.23	46.00	-22.77	
	526.64	3.27	20.29	--	4.06	24.35	27.62	46.00	-18.38	
	710.94	2.31	21.55	--	4.90	26.45	28.76	46.00	-17.24	
	1044.00	45.62	24.32	37.58	6.79	-6.47	39.15	74.00	-34.85	PK
	1246.00	44.49	25.21	37.07	7.33	-4.53	39.96	74.00	-34.04	
	1470.00	43.76	26.04	36.58	8.26	-2.28	41.48	74.00	-32.52	
	1648.00	43.27	26.62	36.25	8.85	-0.78	42.49	74.00	-31.51	
	1797.00	43.72	27.06	36.00	9.32	0.38	44.10	74.00	-29.90	
	1926.00	43.80	27.41	35.8	9.73	1.34	45.14	74.00	-28.86	

TEST ENGINEER: DIO YANG

4 FUNDAMENTAL AND SPURIOUS EMISSIONS TEST

4.1 Test Equipment

The following test equipment are used during the fundamental and spurious emission test in a semi-anechoic chamber:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Preamplifier	HP	8447D	2944A10548	Mar 19, 2007	Sep 19, 2007
2.	Preamplifier	HP	8449B	3008A00864	Apr 06, 2007	Apr 06, 2008
3.	Bilog Antenna	Chase	CBL6111	1145	Mar 18, 2007	Sep 18, 2007
4.	Test Receiver	R&S	ESVS10	844594/001	Apr 06, 2007	Apr 06, 2008
5.	Spectrum Analyzer	Agilent	E7405A	Y45106600	Apr 06, 2007	Apr 06, 2008
6.	Horn Antenna	EMCO	3115	9607-4878	Apr 06, 2007	Apr 06, 2008

4.2 Block Diagram of Test Setup

Same as Sec 3.2

4.3 Fundamental and Spurious Emission Limit

Frequency (MHz)	Distance (m)	Field strength limits of fundamental	Field strength limits of spurious emissions
		($\mu\text{V/m}$)	($\mu\text{V/m}$)
260 ~ 470	3	3750-12500*	375-1250*
NOTE 1 - Emission Level dB ($\mu\text{V/m}$) = 20 lg Emission Level ($\mu\text{V/m}$) NOTE 2 - The tighter limit applies at the band edges. NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system. NOTE 4 - "*" means linear interpolation. NOTE 5 - The fundamental frequency of the EUT is 433.92MHz, Emission Level dB ($\mu\text{V/m}$) = $20\lg(41.6667 \times 433.92 - 7083.3333) = 80.55$ dB ($\mu\text{V/m}$) and the limit of the Harmonic is 60.55$\mu\text{V/m}$.			

4.4 Test Configuration

The EUT was installed as show on Sec. 3.2 in fundamental and spurious emission test to meet ANSI C63.4:2003 requirements and operating in a manner that tend to maximize emission level in a normal application.

4.5 Operating Condition of EUT

- 4.5.1 Setup the EUT as shown in Sec. 3.2.
- 4.5.2 Press one of the buttons and make it transmit continuously. Then test it one by one.
- 4.5.3 Set the EUT on the test modes, and then test.
- 4.5.4 The test modes are as follows:

On Lying	On Side	On Stand
Off Lying	Off Side	Off Stand
Sound On Lying	Sound On Side	Sound On Stand
Sound Off Lying	Sound Off Side	Sound Off Stand

4.6 Test Procedures

The EUT was placed on a table that is 0.8 meter above ground. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. Broadband antenna (Calibrated antenna or Horn Antenna) was used as receiving antenna below 1000MHz. Horn antenna were used as receiving antenna above 1000MHz. Both horizontal and vertical polarization of the antenna was set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to FCC PART 15 Subpart C and ANSI C63.4:2003 requirements during fundamental and spurious emission test.

The bandwidth setting on Test Receiver ESVS10 is 120 kHz below 1000 MHz.

The bandwidth setting on Spectrum analyzer E7405A is 1 MHz above 1000 MHz.

The frequency range from 30 MHz to 4339.2 MHz (the tenth harmonic) was checked. The EUT rotated through three orthogonal axes to determine which attitude and configuration produces the highest emission.

4.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

Test Mode	Data Page	Test Mode	Data Page
On Lying	P25	Sound On Lying	P31
On Side	P26	Sound On Side	P32
On Stand	P27	Sound On Stand	P33
Off Lying	P28	Sound Off Lying	P34
Off Side	P29	Sound Off Side	P35
Off Stand	P30	Sound Off Stand	P36

NOTE 1 - All readings are Peak Values.

NOTE 2 - Emission Level = Meter Reading + Antenna Factor + Cable Loss
– Preamp Factor – Correction Factor

NOTE 3 - Correction factor is calculated by averaging the sum of the pulse train.
Correction factor is measured as follows:

Turn on the EUT and set the spectrum to the fundamental frequency and set the scan width to 0 Hz. Then connect a storage oscilloscope to the video output of the spectrum that is used to detect the pulse train. Adjust the oscilloscope settings to observe the pulse train and determine the number and width of the pulses, as well as the period of the train.

Mode	T	Pulse 1		Formula	Correction Factor
		T ₁	n		
On	102ms	1.02ms	41	$ 20\lg[(1.02*41)/102] $	7.74dB
Off	102ms	1.02ms	41	$ 20\lg[(1.02*41)/102] $	7.74dB
Sound On	104ms	1.02ms	41	$ 20\lg[(1.02*41)/104] $	7.91dB
Sound Off	101.6ms	1.01ms	41	$ 20\lg[(1.01*41)/101.6] $	7.80dB

(See Appendix I)

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : On Lying

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Correction factor (dB)	Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	433.92	52.80	18.73	--	3.75	22.48	7.74	67.54	80.55	-13.01
	867.84	34.80	23.16	--	5.60	28.76	7.74	55.82	60.55	-4.73
	1301.76	53.64	25.43	36.94	7.58	-3.93	7.74	41.97	60.55	-18.58
	1735.68	53.17	26.89	36.11	9.15	-0.07	7.74	45.36	60.55	-15.19
Vertical	433.92	41.30	18.73	--	3.75	22.48	7.74	56.04	80.55	-24.51
	867.84	34.30	23.16	--	5.6	28.76	7.74	55.32	60.55	-5.23
	1301.76	52.33	25.43	36.94	7.58	-3.93	7.74	40.66	60.55	-19.89
	1735.68	48.9	26.89	36.11	9.15	-0.07	7.74	41.09	60.55	-19.46

TEST ENGINEER: DIO YANG

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : On Side

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Correction factor (dB)	Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	433.92	49.60	18.73	--	3.75	22.48	7.74	64.34	80.55	-16.21
	867.84	35.62	23.16	--	5.60	28.76	7.74	56.64	60.55	-3.91
	1301.76	54.74	25.43	36.94	7.58	-3.93	7.74	43.07	60.55	-17.48
	1735.68	53.37	26.89	36.11	9.15	-0.07	7.74	45.56	60.55	-14.99
Vertical	433.92	50.00	18.73	--	3.75	22.48	7.74	64.74	80.55	-15.81
	867.84	35.77	23.16	--	5.60	28.76	7.74	56.79	60.55	-3.76
	1301.76	63.38	25.43	36.94	7.58	-3.93	7.74	51.71	60.55	-8.84
	1735.68	53.06	26.89	36.11	9.15	-0.07	7.74	45.25	60.55	-15.30

TEST ENGINEER: DIO YANG

EUT	:	<u>Fireplace Remote control system</u>	Temperature :	<u>28°C</u>
Model No.	:	<u>LGT201TX</u>	Humidity :	<u>53%</u>
Serial No.	:	<u>E07081022</u>	Date of Test :	<u>Aug 24, 2007</u>
Test Mode	:	<u>On Stand</u>		

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Correction factor (dB)	Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	433.92	41.91	18.73	--	3.75	22.48	7.74	56.65	80.55	-23.9
	867.84	36.2	23.16	--	5.6	28.76	7.74	57.22	60.55	-3.33
	1301.76	52.78	25.43	36.94	7.58	-3.93	7.74	41.11	60.55	-19.44
	1735.68	49.83	26.89	36.11	9.15	-0.07	7.74	42.02	60.55	-18.53
Vertical	433.92	51.10	18.73	--	3.75	22.48	7.74	65.84	80.55	-14.71
	867.84	36.46	23.16	--	5.6	28.76	7.74	57.48	60.55	-3.07
	1301.76	59.59	25.43	36.94	7.58	-3.93	7.74	47.92	60.55	-12.63
	1735.68	53.92	26.89	36.11	9.15	-0.07	7.74	46.11	60.55	-14.44

TEST ENGINEER: DIO YANG

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : Off Lying

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Correction factor (dB)	Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	433.92	52.1	18.73	--	3.75	22.48	7.74	66.84	80.55	-13.71
	867.84	36	23.16	--	5.6	28.76	7.74	57.02	60.55	-3.53
	1301.76	54.74	25.43	36.94	7.58	-3.93	7.74	43.07	60.55	-17.48
	1735.68	53.9	26.89	36.11	9.15	-0.07	7.74	46.09	60.55	-14.46
Vertical	433.92	41.90	18.73	--	3.75	7.74	22.48	56.64	80.55	-23.91
	867.84	34.40	23.16	--	5.60	7.74	28.76	55.42	60.55	-5.13
	1301.76	54.01	25.43	36.94	7.58	7.74	-3.93	42.34	60.55	-18.21
	1735.68	50.63	26.89	36.11	9.15	7.74	-0.07	42.82	60.55	-17.73

TEST ENGINEER: DIO YANG

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : Off Side

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Correction factor (dB)	Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	433.92	44.44	18.73	--	3.75	22.48	7.74	59.18	80.55	-21.37
	867.84	35.36	23.16	--	5.60	28.76	7.74	56.38	60.55	-4.17
	1301.76	56.37	25.43	36.94	7.58	-3.93	7.74	44.70	60.55	-15.85
	1735.68	50.28	26.89	36.11	9.15	-0.07	7.74	42.47	60.55	-18.08
Vertical	433.92	55.13	18.73	--	3.75	22.48	7.74	69.87	80.55	-10.68
	867.84	35.87	23.16	--	5.60	28.76	7.74	56.89	60.55	-3.66
	1301.76	64.41	25.43	36.94	7.58	-3.93	7.74	52.74	60.55	-7.81
	1735.68	56.68	26.89	36.11	9.15	-0.07	7.74	48.87	60.55	-11.68

TEST ENGINEER: DIO YANG

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : Off Stand

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Correction factor (dB)	Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	433.92	45.84	18.73	--	3.75	22.48	7.74	60.58	80.55	-19.97
	867.84	34.94	23.16	--	5.60	28.76	7.74	55.96	60.55	-4.59
	1301.76	54.65	25.43	36.94	7.58	-3.93	7.74	42.98	60.55	-17.57
	1735.68	51.3	26.89	36.11	9.15	-0.07	7.74	43.49	60.55	-17.06
Vertical	433.92	59.15	18.73	--	3.75	22.48	7.74	73.89	80.55	-6.66
	867.84	35.47	23.16	--	5.60	28.76	7.74	56.49	60.55	-4.06
	1301.76	61.48	25.43	36.94	7.58	-3.93	7.74	57.55	60.55	-16.45
	1735.68	54.01	26.89	36.11	9.15	-0.07	7.74	53.94	60.55	-20.06

TEST ENGINEER: DIO YANG

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : Sound On Lying

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Correction factor (dB)	Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	433.92	51.47	18.73	--	3.75	22.48	7.91	66.04	80.55	-14.51
	867.84	35.73	23.16	--	5.60	28.76	7.91	56.58	60.55	-3.97
	1301.76	53.46	25.43	36.94	7.58	-3.93	7.91	41.62	60.55	-18.93
	1735.68	49.53	26.89	36.11	9.15	-0.07	7.91	41.55	60.55	-19.00
Vertical	433.92	42.46	18.73	--	3.75	22.48	7.91	57.03	80.55	-23.52
	867.84	32.76	23.16	--	5.60	28.76	7.91	53.61	60.55	-6.94
	1301.76	52.59	25.43	36.94	7.58	-3.93	7.91	40.75	60.55	-19.80
	1735.68	54.49	26.89	36.11	9.15	-0.07	7.91	46.51	60.55	-14.04

TEST ENGINEER: DIO YANG

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : Sound On Side

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Correction factor (dB)	Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	433.92	46.42	18.73	--	3.75	22.48	7.91	60.99	80.55	-19.56
	867.84	35.08	23.16	--	5.6	28.76	7.91	55.93	60.55	-4.62
	1301.76	52.14	25.43	36.94	7.58	-3.93	7.91	40.3	60.55	-20.25
	1735.68	47.54	26.89	36.11	9.15	-0.07	7.91	39.56	60.55	-20.99
Vertical	433.92	49.12	18.73	--	3.75	22.48	7.91	63.69	80.55	-16.86
	867.84	35.22	23.16	--	5.60	28.76	7.91	56.07	60.55	-4.48
	1301.76	52.07	25.43	36.94	7.58	-3.93	7.91	40.23	60.55	-20.32
	1735.68	48.88	26.89	36.11	9.15	-0.07	7.91	40.9	60.55	-19.65

TEST ENGINEER: DIO YANG

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : Sound On Stand

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Correction factor (dB)	Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	433.92	43.61	18.73	--	3.75	22.48	7.91	58.18	80.55	-22.37
	867.84	31.74	23.16	--	5.60	28.76	7.91	52.59	60.55	-7.96
	1301.76	60.59	25.43	36.94	7.58	-3.93	7.91	48.75	60.55	-11.8
	1735.68	46.48	26.89	36.11	9.15	-0.07	7.91	38.5	60.55	-22.05
Vertical	433.92	49.93	18.73	--	3.75	22.48	7.91	64.5	80.55	-16.05
	867.84	36.17	23.16	--	5.6	28.76	7.91	57.02	60.55	-3.53
	1301.76	53.92	25.43	36.94	7.58	-3.93	7.91	42.08	60.55	-18.47
	1735.68	53.9	26.89	36.11	9.15	-0.07	7.91	45.92	60.55	-14.63

TEST ENGINEER: DIO YANG

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : Sound Off Lying

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Correction factor (dB)	Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	433.92	51.64	18.73	--	3.75	22.48	7.80	66.29	80.55	-14.26
	867.84	35.82	23.16	--	5.60	28.76	7.80	56.78	60.55	-3.77
	1301.76	56.00	25.43	36.94	7.58	-3.93	7.80	44.27	60.55	-16.28
	1735.68	50.59	26.89	36.11	9.15	-0.07	7.80	42.72	60.55	-17.83
Vertical	433.92	41.77	18.73	--	3.75	22.48	7.80	56.45	80.55	-24.10
	867.84	32.61	23.16	--	5.60	28.76	7.80	53.57	60.55	-6.98
	1301.76	53.11	25.43	36.94	7.58	-3.93	7.80	41.38	60.55	-19.17
	1735.68	54.84	26.89	36.11	9.15	-0.07	7.80	46.97	60.55	-13.58

TEST ENGINEER: DIO YANG

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : Sound Off Side

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Correction factor (dB)	Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	433.92	47.30	18.73	--	3.75	22.48	7.80	61.98	80.55	-18.57
	867.84	35.96	23.16	--	5.60	28.76	7.80	56.92	60.55	-3.63
	1301.76	51.89	25.43	36.94	7.58	-3.93	7.80	40.16	60.55	-20.39
	1735.68	49.92	26.89	36.11	9.15	-0.07	7.80	42.05	60.55	-18.50
Vertical	433.92	49.85	18.73	--	3.75	22.48	7.80	64.53	80.55	-16.02
	867.84	36.43	23.16	--	5.60	28.76	7.80	57.39	60.55	-3.16
	1301.76	57.52	25.43	36.94	7.58	-3.93	7.80	45.79	60.55	-14.76
	1735.68	56.47	26.89	36.11	9.15	-0.07	7.80	48.6	60.55	-11.95

TEST ENGINEER: DIO YANG

EUT : Fireplace Remote control system Temperature : 28°C

Model No. : LGT201TX Humidity : 53%

Serial No. : E07081022 Date of Test : Aug 24, 2007

Test Mode : Sound Off Stand

Polarization	Frequency (MHz)	Read Level dB (μV)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Factor (dB/m)	Correction factor (dB)	Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	433.92	44.66	18.73	--	3.75	22.48	7.80	59.34	80.55	-21.21
	867.84	32.69	23.16	--	5.60	28.76	7.80	53.65	60.55	-6.90
	1301.76	60.63	25.43	36.94	7.58	-3.93	7.80	48.90	60.55	-11.65
	1735.68	54.49	26.89	36.11	9.15	-0.07	7.80	46.62	60.55	-13.92
Vertical	433.92	50.35	18.73	--	3.75	22.48	7.80	65.03	80.55	-15.52
	867.84	36.52	23.16	--	5.60	28.76	7.80	57.48	60.55	-3.07
	1301.76	57.24	25.43	36.94	7.58	-3.93	7.80	45.51	60.55	-15.04
	1735.68	53.32	26.89	36.11	9.15	-0.07	7.80	45.45	60.55	-15.10

TEST ENGINEER: DIO YANG

5 BANDWIDTH MEASUREMENT

5.1 Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E7405A	MY45106600	Apr 06, 2007	Apr 06, 2008
2.	Bilog Antenna	Chase	CBL6111	1146	Mar 18, 2007	Sep 18, 2007
3.	Preamplifier	HP	8447D	2944A06849	Mar 20, 2007	Sep 20, 2007
4.	Software	Audix	E3	SET00200 9912M295-2	--	--

5.2 Bandwidth Limit

The bandwidth of the emission shall be no wider than 0.25% of the center frequency.
Bandwidth is determined at the point 20dB down from the modulated carrier.
Bandwidth Limit is:

$$\text{Limit} = 0.25\% \times 433.92(\text{MHz}) = 1.0848(\text{MHz})$$

The bandwidth of Spectrum Analyzer (M/N: E7405A) is 120kHz in the test.

5.3 Test Results

<PASS>

The bandwidth of the Fundament emission is:

For On Test Mode:

$$\text{B.W.} = 434.16 - 433.86 = 0.3\text{MHz (Horizontal)}$$

$$\text{B.W.} = 434.20 - 433.86 = 0.34\text{MHz (Vertical)}$$

For Off Test Mode:

$$\text{B.W.} = 434.16 - 433.86 = 0.30\text{MHz (Horizontal)}$$

$$\text{B.W.} = 434.19 - 433.87 = 0.32\text{MHz (Vertical)}$$

For Sound On Test Mode:

$$\text{B.W.} = 434.18 - 433.85 = 0.33\text{MHz (Horizontal)}$$

$$\text{B.W.} = 434.16 - 433.84 = 0.32\text{MHz (Vertical)}$$

For Sound Off Test Mode:

$$\text{B.W.} = 434.17 - 433.83 = 0.34\text{MHz (Horizontal)}$$

$$\text{B.W.} = 434.17 - 433.82 = 0.35\text{MHz (Vertical)}$$

(See Appendix II)

6 OPERATION DESCRIPTION

Motion sensor with RF remote (M/N: LGT201TX) employs a switch that will automatically deactivate the Controller within not more than 5 seconds of being released.

APPENDIX I

PLOT OF THE PULSE TRAIN

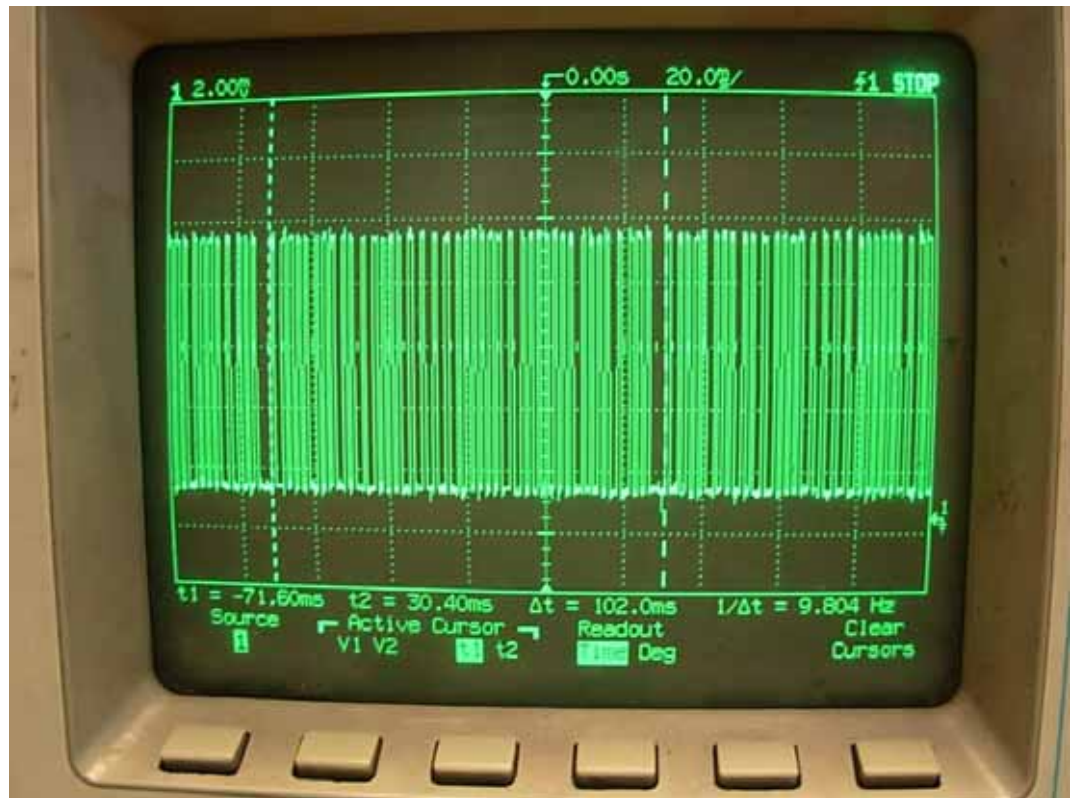


FIGURE 1-1

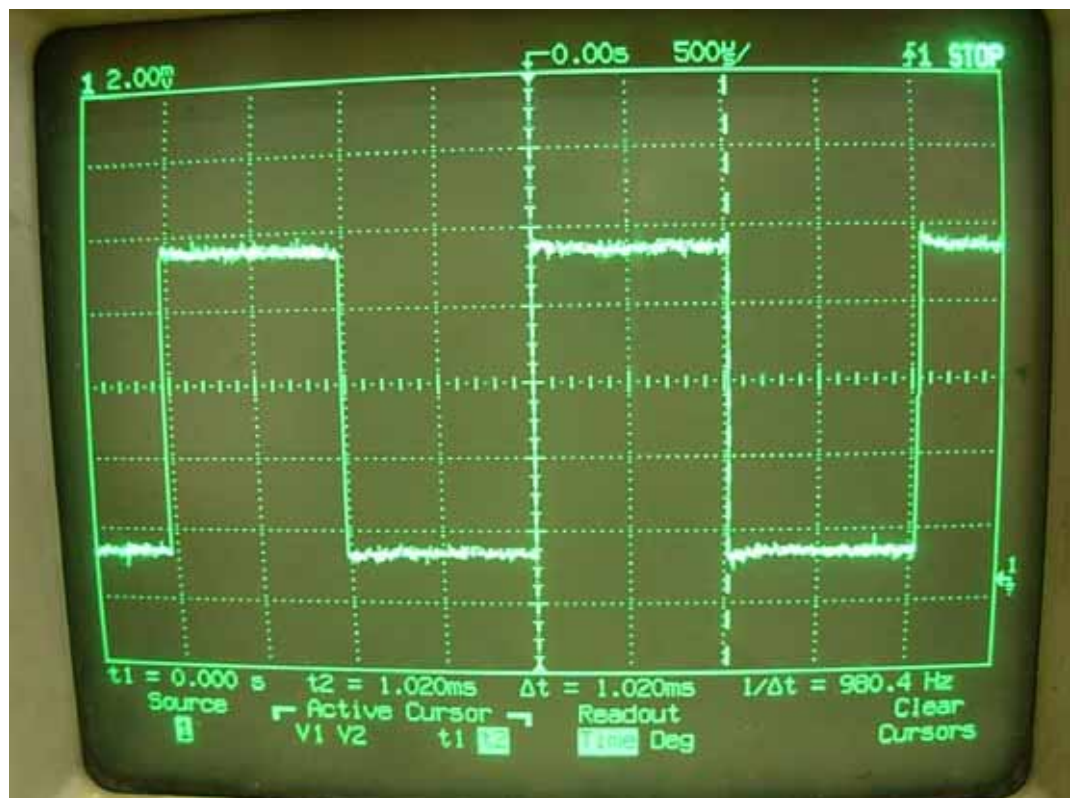


FIGURE 1-2

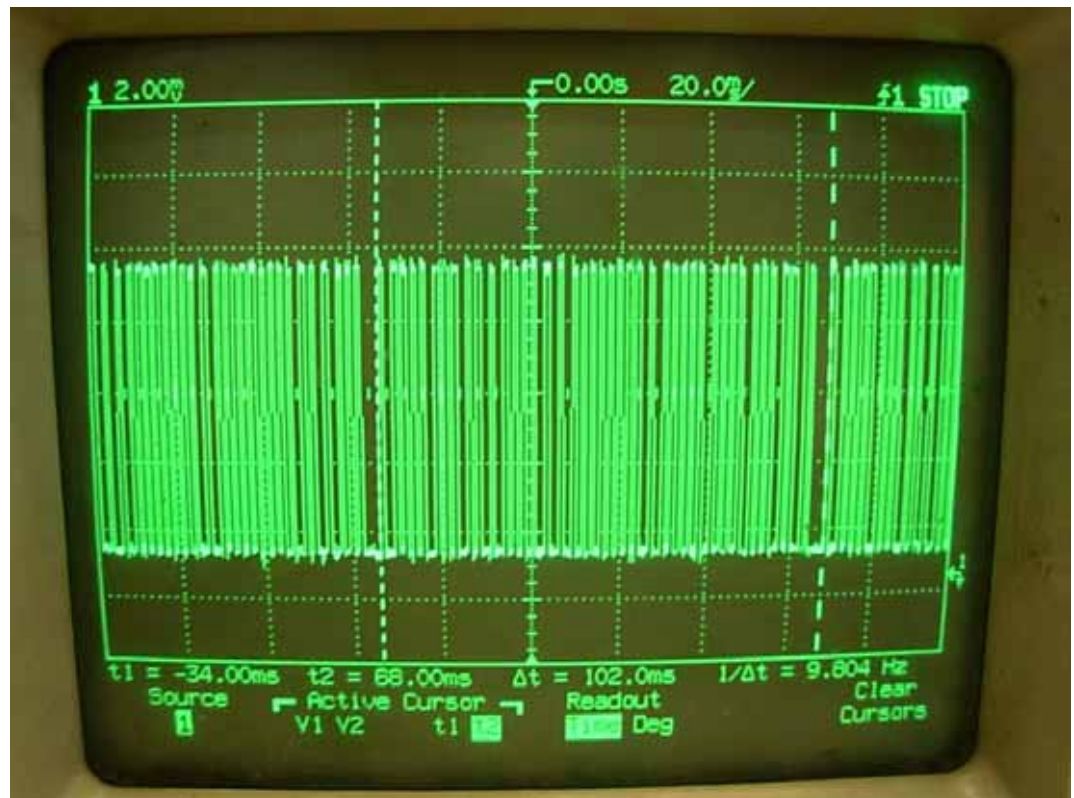


FIGURE 2-1

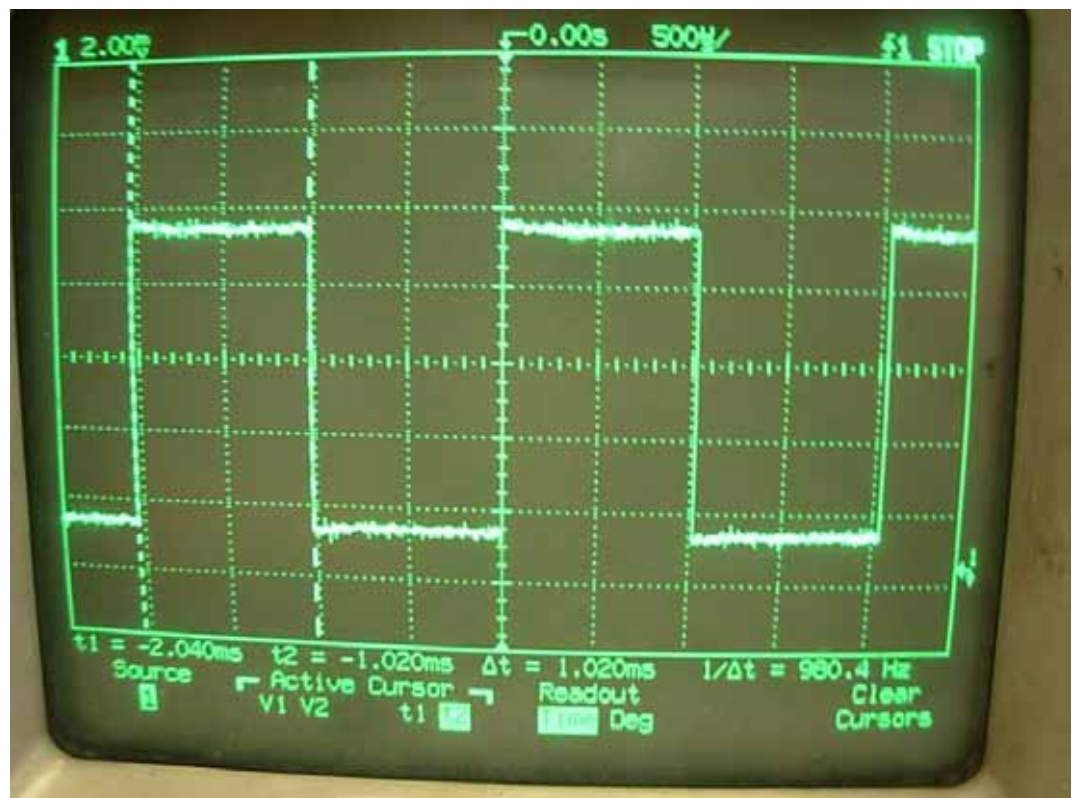


FIGURE 2-2

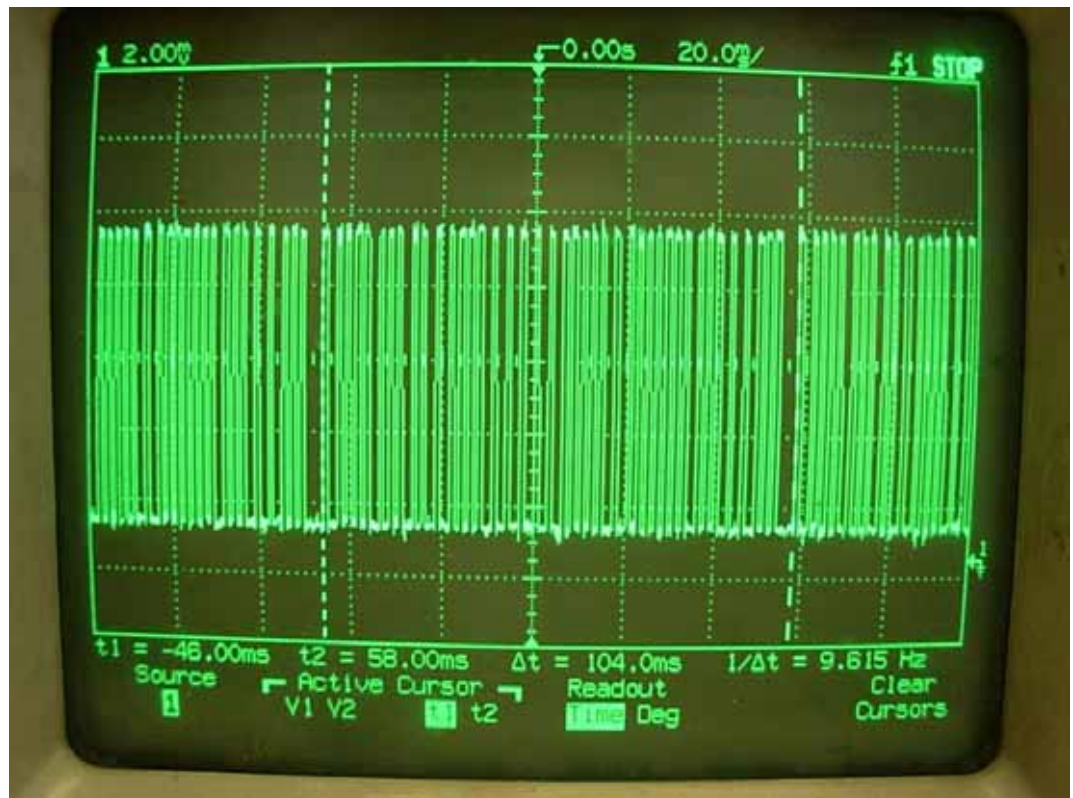


FIGURE 3-1

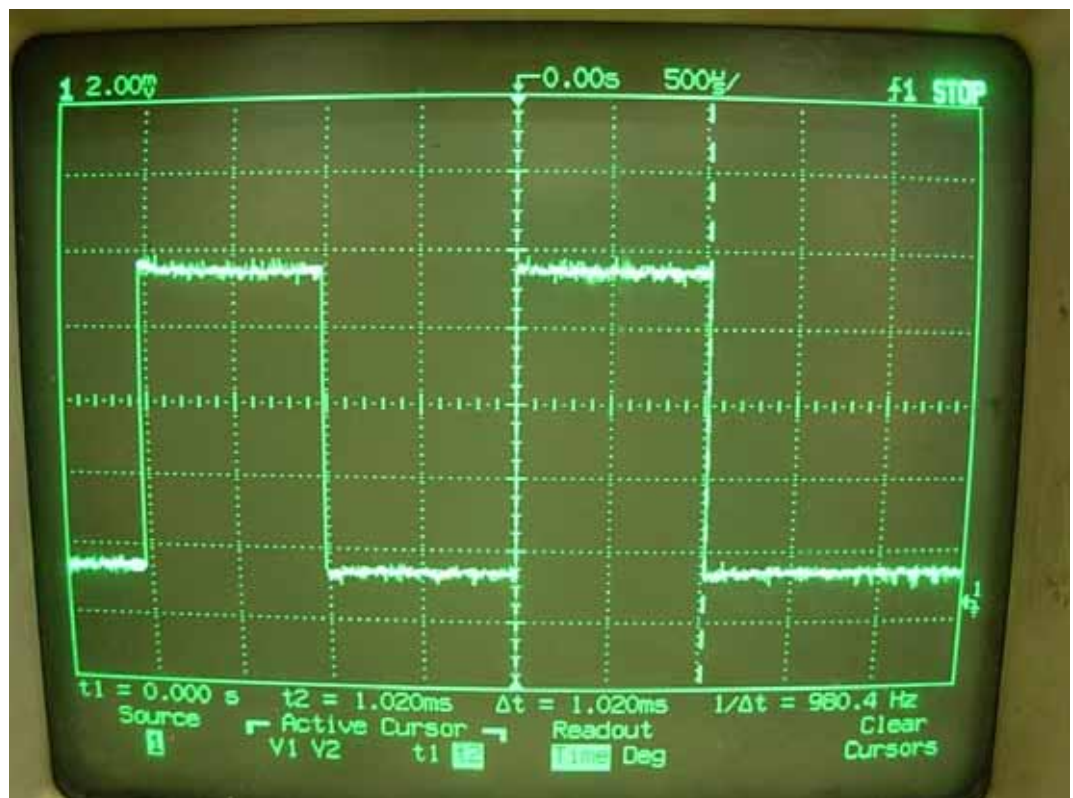


FIGURE 3-2

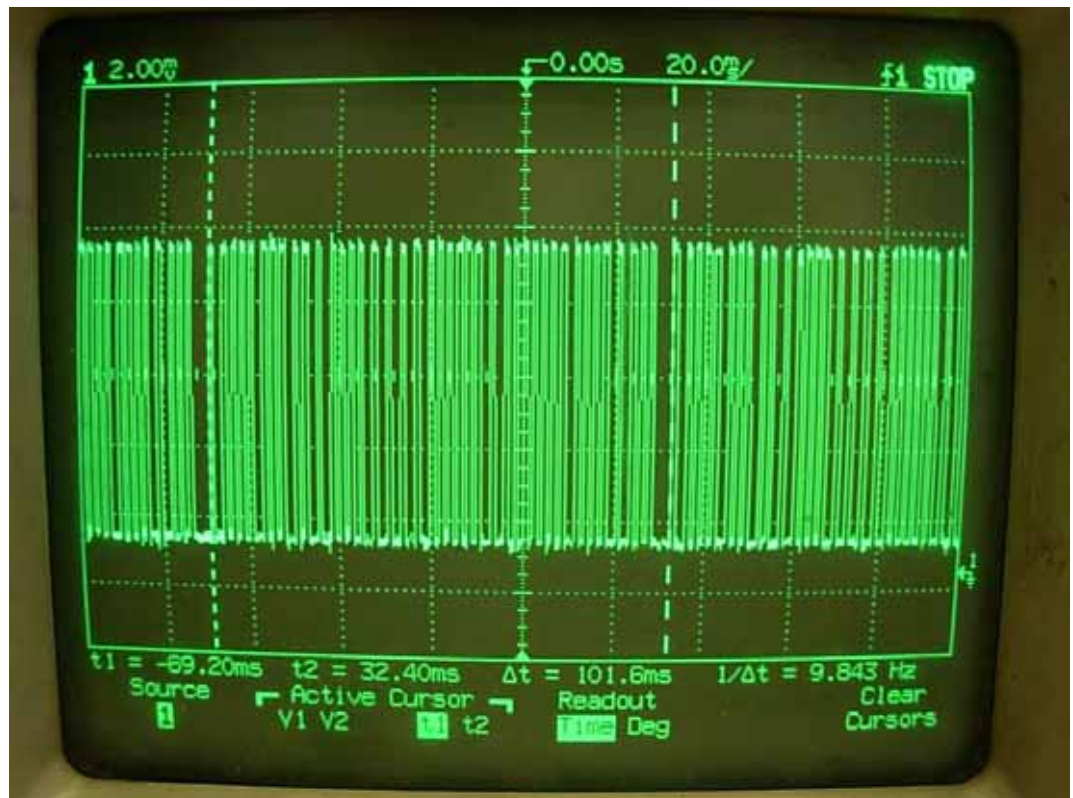


FIGURE 4-1

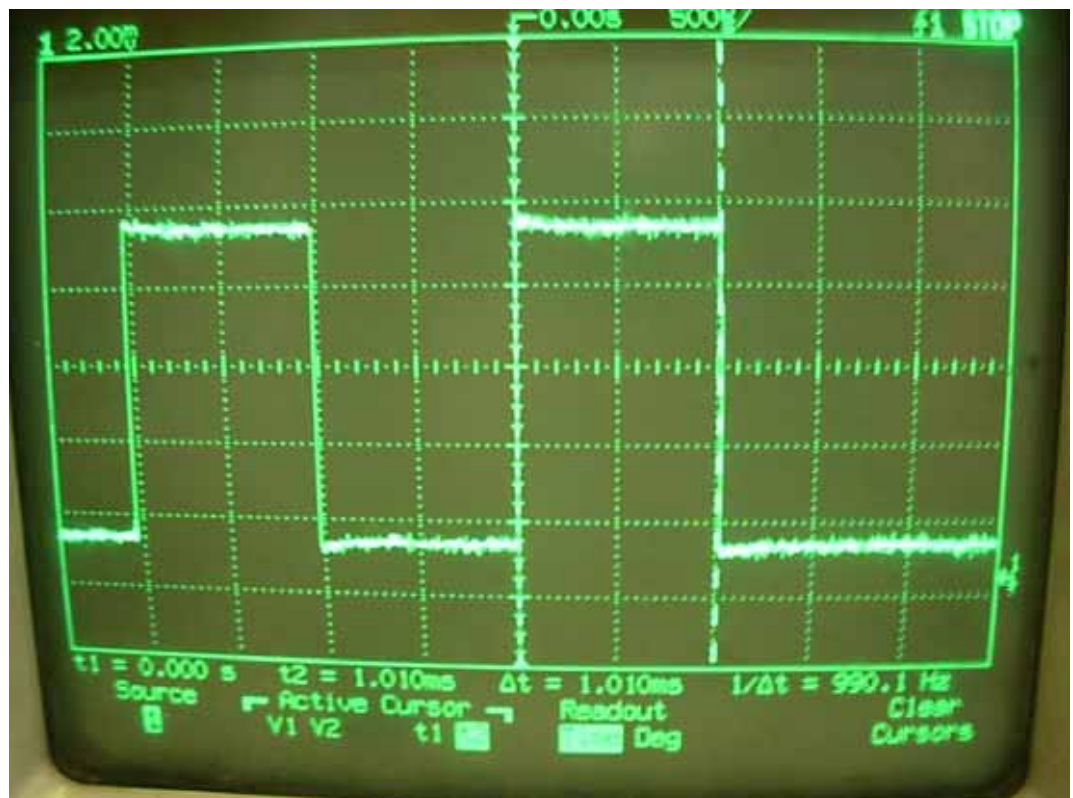


FIGURE 4-2

APPENDIX II

PLOT OF THE OCCUPIED BANDWIDTH

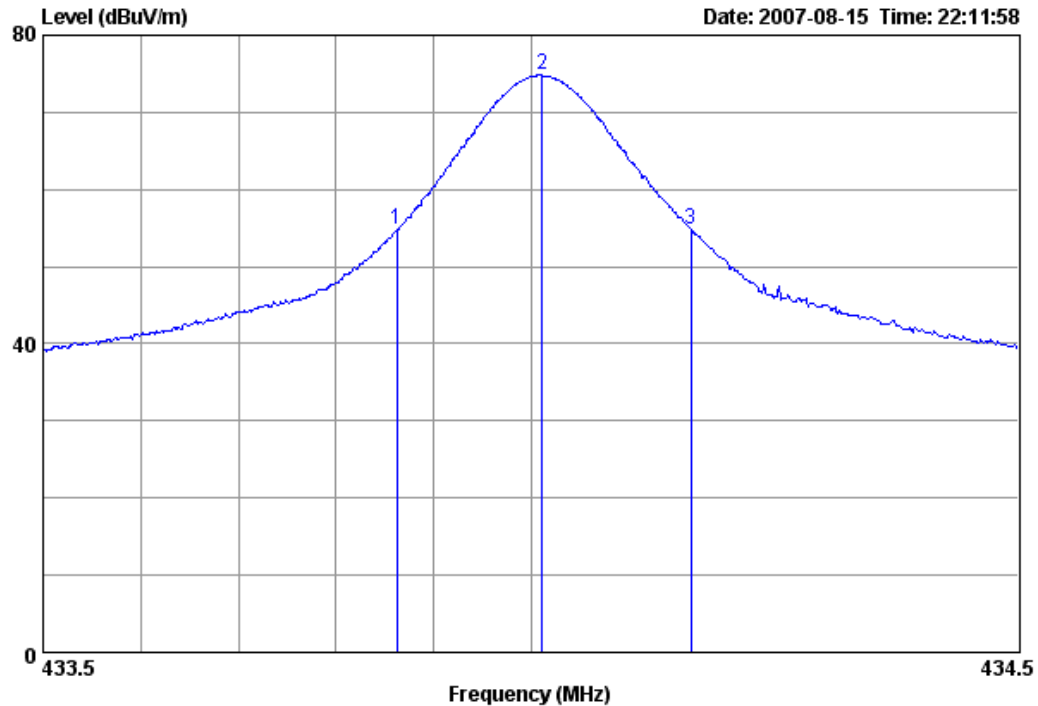


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 audixaci@audix.com

Data: 161

File: D:\Power-Mag.EM6 (179)

Date: 2007-08-15 Time: 22:11:58



Site no : Audix ACI (3m Chamber) Data no. : 161
 Dis. / Ant. : 3m / 1145-07.03.18 Ant. pol. : HORIZONTAL
 Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
 EUT : Fireplace Remote control system
 M/N : LGT201TX
 S/N : E07081022
 Power Rating: DC 3V
 Test Mode : ON

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dBuV)	Reading (dBuV/m)	Emission Level
1	433.86	18.73	27.43	3.75	59.68	54.73
2	434.01	18.73	27.43	3.75	79.75	74.80
3	434.16	18.73	27.43	3.75	59.68	54.73

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official are not report.

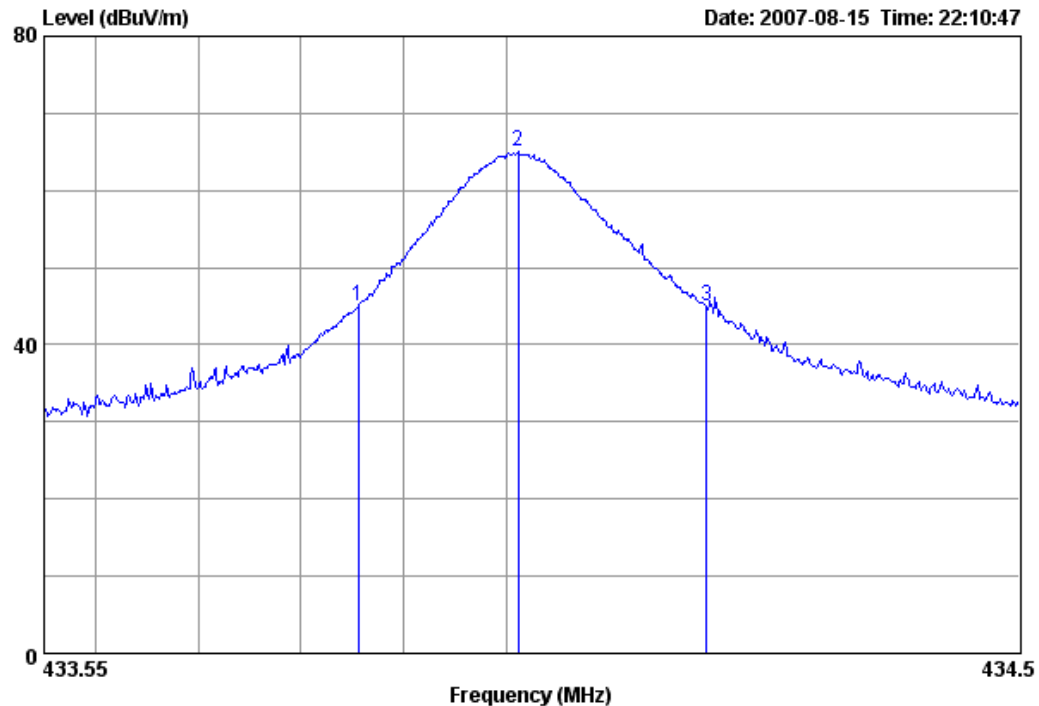


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 audixaci@audix.com

Data: 160

File: D:\Power-Mag.EM6 (179)

Date: 2007-08-15 Time: 22:10:47



Site no	: Audix ACI (3m Chamber)	Data no.	: 160
Dis. / Ant.	: 3m /1145-07.03.18	Ant. pol.	: VERTICAL
Env. / Ins.	: 22'C 60%RH/ E7405A	Engineer	: Dio
EUT	: Fireplace Remote control system		
M/N	: LGT201TX		
S/N	: E07081022		
Power Rating	: DC 3V		
Test Mode	: ON		

	Freq. (MHz)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Reading (dBuV/m)	Emission Level
1	433.86	18.73	27.43	3.75	49.96	45.01
2	434.01	18.73	27.43	3.75	69.98	65.03
3	434.20	18.73	27.43	3.75	49.90	44.95

Remarks: 1.Emission Level= Antenna Factor + Cable Loss + Reading.
 2.The emission levels that are 20dB below the official are not report.

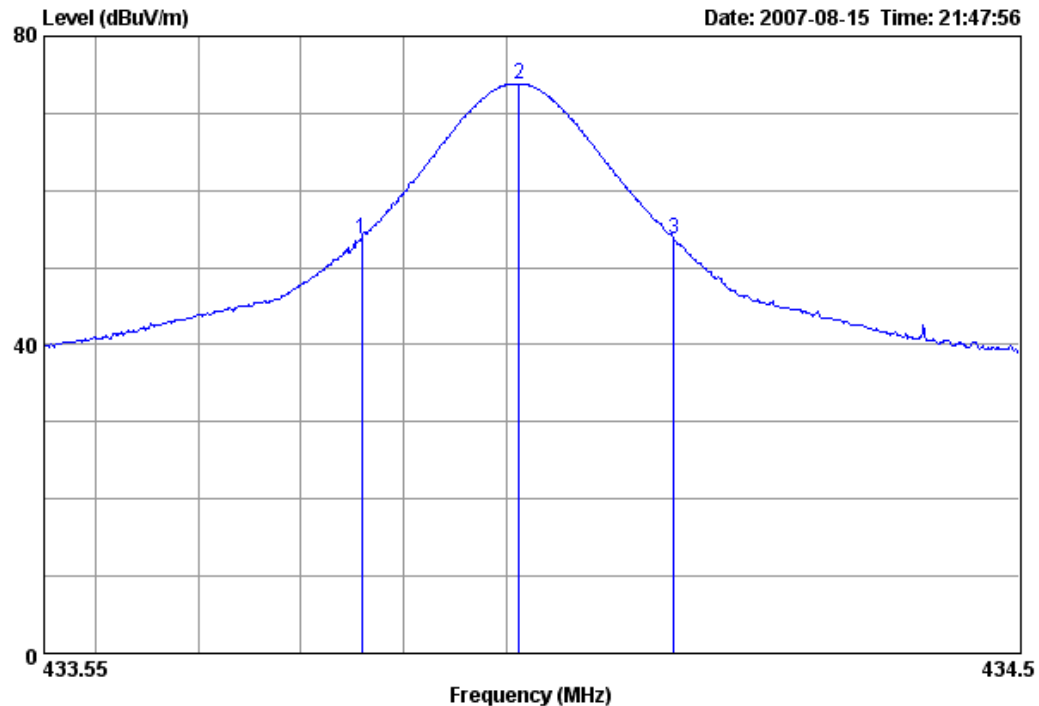


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Data: 158

File: D:\Power-Mag.EM6 (179)

Date: 2007-08-15 Time: 21:47:56



Site no	: Audix ACI (3m Chamber)	Data no.	: 158
Dis. / Ant.	: 3m /1145-07.03.18	Ant. pol.	: HORIZONTAL
Env. / Ins.	: 22'C 60%RH/ E7405A	Engineer	: Dio
EUT	: Fireplace Remote control system		
M/N	: LGT201TX		
S/N	: E07081022		
Power Rating	: DC 3V		
Test Mode	: OFF		

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dBUV)	Reading (dBUV/m)	Emission Level
1	433.86	18.73	27.43	3.75	58.58	53.63
2	434.01	18.73	27.43	3.75	78.82	73.87
3	434.16	18.73	27.43	3.75	58.63	53.68

Remarks: 1.Emission Level= Antenna Factor + Cable Loss + Reading.
 2.The emission levels that are 20dB below the official are not report.

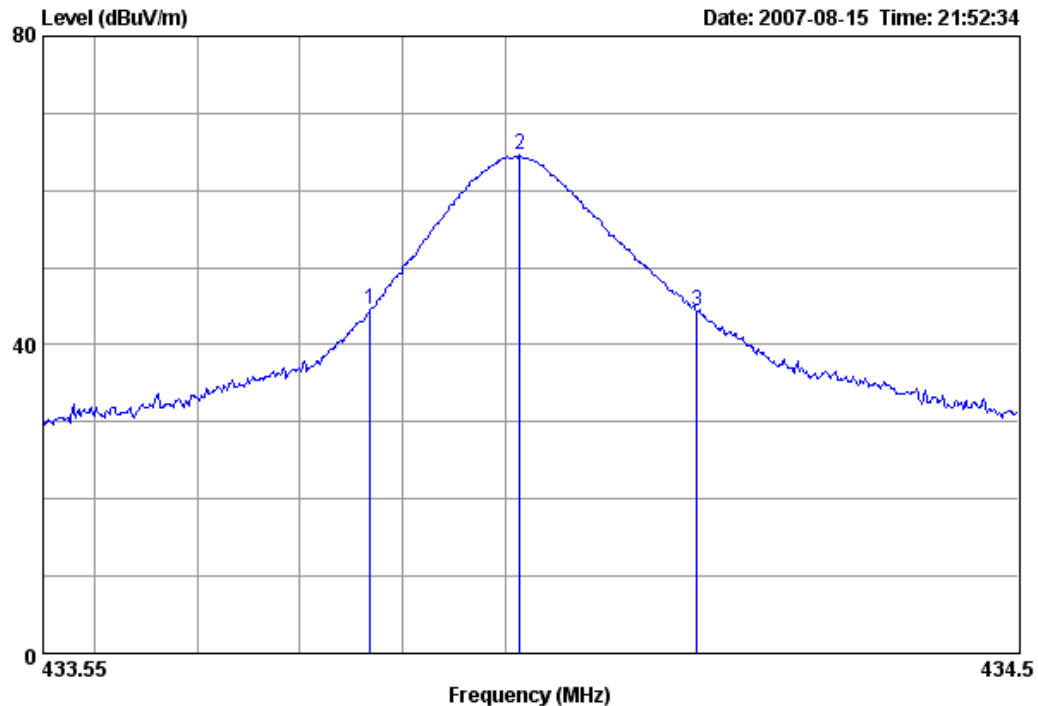


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Data: 159

File: D:\Power-Mag.EM6 (179)

Date: 2007-08-15 Time: 21:52:34



Site no	: Audix ACI (3m Chamber)	Data no.	: 159
Dis. / Ant.	: 3m /1145-07.03.18	Ant. pol.	: VERTICAL
Env. / Ins.	: 22'C 60%RH/ E7405A	Engineer	: Dio
EUT	: Fireplace Remote control system		
M/N	: LGT201TX		
S/N	: E07081022		
Power Rating	: DC 3V		
Test Mode	: OFF		

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dBuV)	Reading (dBuV/m)	Emission Level
1	433.87	18.73	27.43	3.75	49.46	44.51
2	434.01	18.73	27.43	3.75	69.50	64.55
3	434.19	18.73	27.43	3.75	49.28	44.33

Remarks: 1.Emission Level= Antenna Factor + Cable Loss + Reading.
 2.The emission levels that are 20dB below the official are not report.

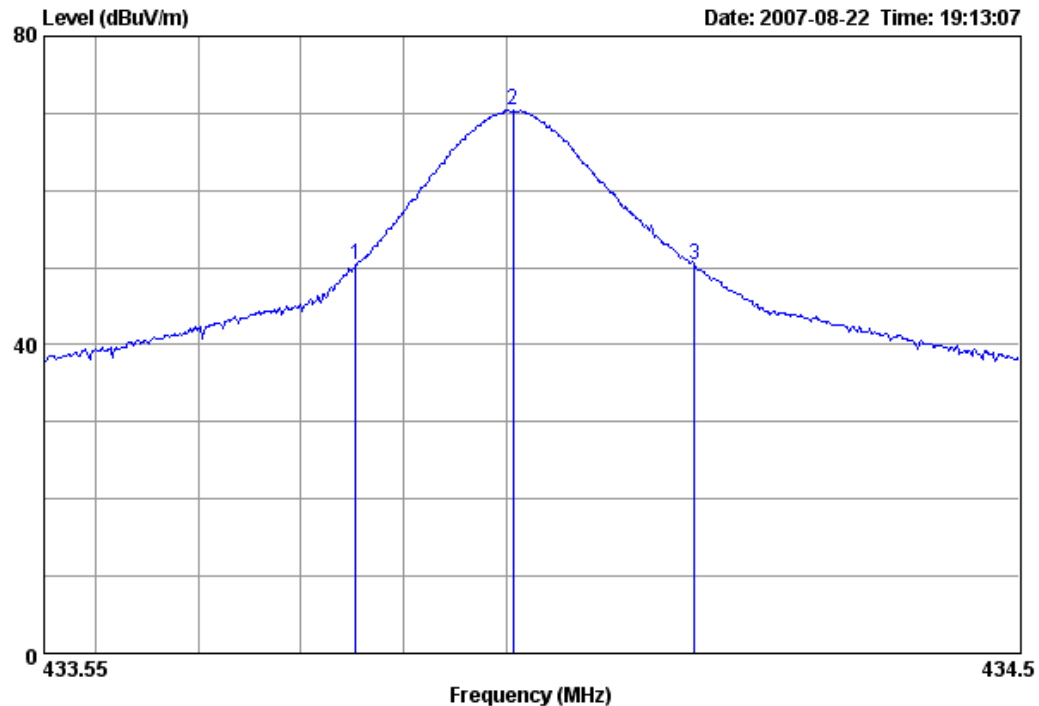


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Data: 164

File: D:\Power-Mag.EM6 (179)

Date: 2007-08-22 Time: 19:13:07



Site no : Audix ACI (3m Chamber) Data no. : 164
 Dis. / Ant. : 3m /1145-07.03.18 Ant. pol. : HORIZONTAL
 Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
 EUT : Fireplace Remote control system
 M/N : LGT201TX
 S/N : E07081022
 Power Rating: DC 3V
 Test Mode : SOUND ON

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dBuV)	Reading (dBuV/m)	Emission Level
1	433.85	18.73	27.43	3.75	55.20	50.25
2	434.01	18.73	27.43	3.75	75.34	70.39
3	434.18	18.73	27.43	3.75	55.25	50.30

Remarks: 1.Emission Level= Antenna Factor + Cable Loss + Reading.
 2.The emission levels that are 20dB below the official are not report.

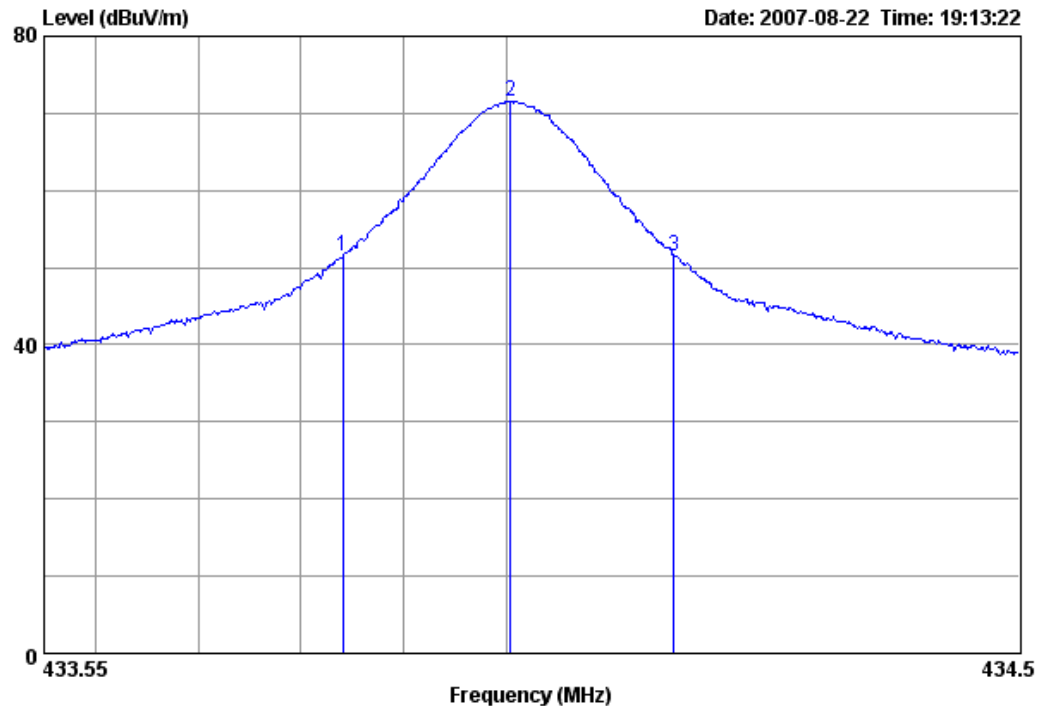


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Data: 165

File: D:\Power-Mag.EM6 (179)

Date: 2007-08-22 Time: 19:13:22



Site no : Audix ACI (3m Chamber) Data no. : 165
 Dis. / Ant. : 3m /1145-07.03.18 Ant. pol. : VERTICAL
 Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
 EUT : Fireplace Remote control system
 M/N : LGT201TX
 S/N : E07081022
 Power Rating: DC 3V
 Test Mode : SOUND ON

	Freq. (MHz)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dB)	Reading (dBuV/m)	Emission Level
1	433.84	18.73	27.43	3.75	56.47	51.52
2	434.00	18.73	27.43	3.75	76.50	71.55
3	434.16	18.73	27.43	3.75	56.46	51.51

Remarks: 1.Emission Level= Antenna Factor + Cable Loss + Reading.
 2.The emission levels that are 20dB below the official are not report.

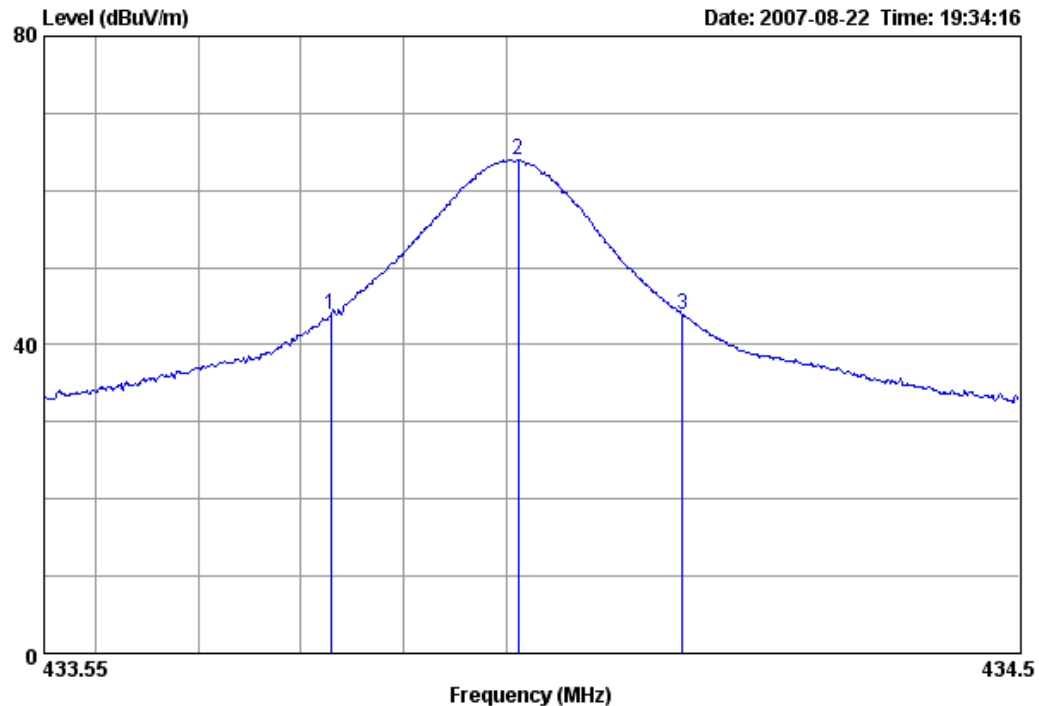


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Data: 166

File: D:\Power-Mag.EM6 (179)

Date: 2007-08-22 Time: 19:34:16



Site no	: Audix ACI (3m Chamber)	Data no.	: 166
Dis. / Ant.	: 3m /1145-07.03.18	Ant. pol.	: HORIZONTAL
Env. / Ins.	: 22'C 60%RH/ E7405A	Engineer	: Dio
EUT	: Fireplace Remote control system		
M/N	: LGT201TX		
S/N	: E07081022		
Power Rating	: DC 3V		
Test Mode	: SOUND OFF		

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dBuV)	Reading (dBuV/m)	Emission Level
1	433.83	18.73	27.43	3.75	48.88	43.93
2	434.01	18.73	27.43	3.75	68.94	63.99
3	434.17	18.73	27.43	3.75	48.77	43.82

Remarks: 1.Emission Level= Antenna Factor + Cable Loss + Reading.
 2.The emission levels that are 20dB below the official are not report.

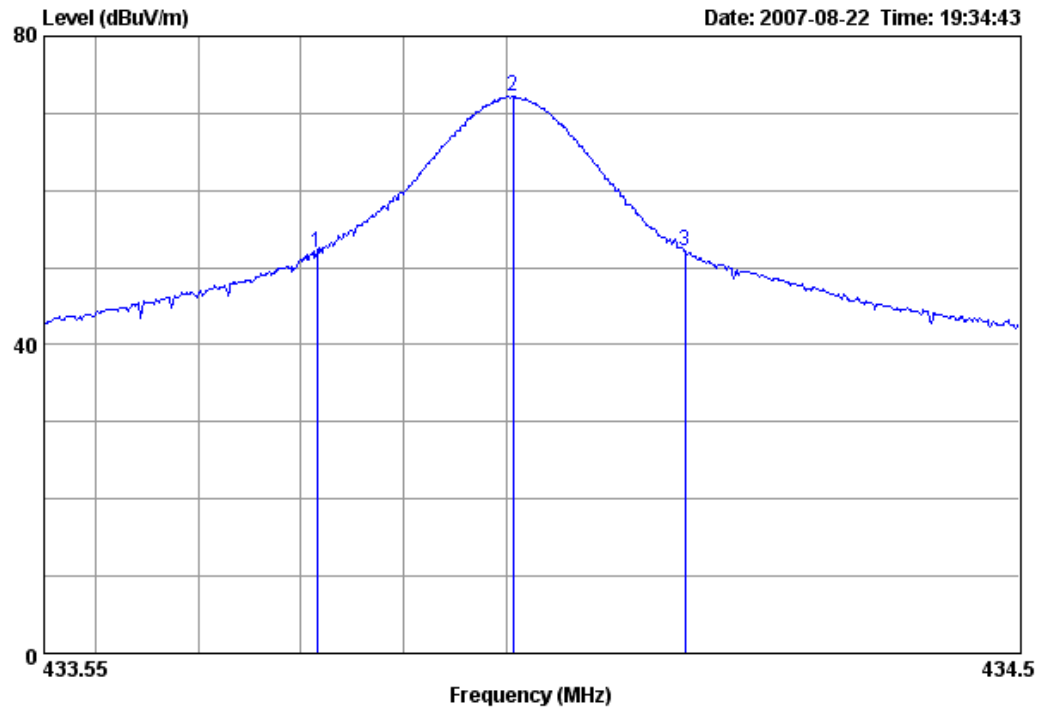


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 audixaci@audix.com

Data: 167

File: D:\Power-Mag.EM6 (179)

Date: 2007-08-22 Time: 19:34:43



Site no	: Audix ACI (3m Chamber)	Data no.	: 167
Dis. / Ant.	: 3m /1145-07.03.18	Ant. pol.	: VERTICAL
Env. / Ins.	: 22'C 60%RH/ E7405A	Engineer	: Dio
EUT	: Fireplace Remote control system		
M/N	: LGT201TX		
S/N	: E07081022		
Power Rating	: DC 3V		
Test Mode	: SOUND OFF		

	Freq. (MHz)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Cable Loss (dBuV)	Reading (dBuV/m)	Emission Level
1	433.82	18.73	27.43	3.75	56.86	51.91
2	434.01	18.73	27.43	3.75	77.13	72.18
3	434.17	18.73	27.43	3.75	57.03	52.08

Remarks: 1.Emission Level= Antenna Factor + Cable Loss + Reading.
 2.The emission levels that are 20dB below the official are not report.