TEST REPORT FOR CERTIFICATION On Behalf of

Chungear Industrial Co., Ltd

Ceiling Fan Remote Controller (Transmitter)

Model No.: TR82E

FCC ID: KUJCE10005

Prepared for: Chungear Industrial Co., Ltd

106 Kanho Rd., Taichung, Taiwan

Prepared By: AUDIX Technology Corporation

EMC Department

No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan, R.O.C.

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File Number : C1M1110236 Report Number : EM-F1001037

Date of Test : Nov. 30 ~ Dec. 12, 2011

Date of Report : Dec. 13, 2011

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TEST REPORT CERTIFICATION

Applicant : Chungear Industrial Co., Ltd

Manufacturer #1 : Chungear Industrial Co., Ltd

Manufacturer #2 : Satellite Electronic (Zhongshan) Ltd.

Manufacturer #3 : Zhongshan Amity Electronic Ltd.

Manufacturer #4 : ZHONGSHAN KONG LUEN WAH HOI ELECTRICAL

APPLIANCE CO LTD

EUT Description : Ceiling Fan Remote Controller (Transmitter)

FCC ID : KUJCE10005

(A) Model No. : TR82E

(B) Serial No. : N/A

(C) Power Supply : AC 120V/60Hz

(D) Test Voltage : AC 120V/60Hz

Measurement Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART C, October 2010 AND ANSI C63.4/2003

(FCC CFR 47 Part 15C, §15.207, §15.209 and §15.231)

The device described above was tested by AUDIX Technology Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C limits both radiated and conducted emissions.

The measurement results are contained in this test report and AUDIX Technology Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX Technology Corporation.

Date of Test: Nov. 30 ~ Dec. 12, 2011 Date of Report: Dec. 13, 2011

Producer:

(Fyfy Lin/Assistant Administrator)

Signatory: Shu Why

AUDIX Technology Corporation Report No.: EM-F1001037

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description : Ceiling Fan Remote Controller (Transmitter)

Model Number : TR82E

FCC ID : KUJCE10005

Applicant : Chungear Industrial Co., Ltd

106 Kanho Rd., Taichung, Taiwan

Manufacturer #1 : Chungear Industrial Co., Ltd.

106 Kanho Rd., Taichung, Taiwan

Manufacturer #2 : Satellite Electronic (Zhongshan)., Ltd

No.15, Torch Hi-Tech Industrial Development Zone, Zhong Shan City Guangdong Province

China

Manufacturer #3 : Zhongshan Amity Electronic Ltd.

No. 16 Torch Hi-Tech Industrial Development Zone, Zhong Shan City Guangdong Province

China.

Manufacturer #4 : ZHONGSHAN KONG LUEN WAH HOI

ELECTRICAL APPLIANCE CO LTD

SCIENCE & TECHNOLOGY DEVELOPMENT ZONE LANG WANG TOWN ZHONGSHAN

GUANGDONG CHINA

Fundamental Frequency : 304MHz

Power Supply : AC 120V/60Hz

DC Power Cord : Shielded, Undetachable, 0.15m

AC Power Cord : Shielded, Undetachable, 0.15m

Date of Receipt of Sample : Oct. 25, 2011

Date of Test : Dec. 08 ~ 12, 2011

* Ceiling Fan Remote Controller (Transmitter) - Receiver

(1)Model No.: JY199, FCC by DoC

(2)Model No.: JY326B, FCC by DoC

(3) Model No.: JY326D, FCC by DoC

(4) Model No.: MR36T, FCC by DoC

(5)Model No.: MR36R, FCC by DoC

(6) Model No.: MR58A, FCC by DoC

(7) Model No.: MR56E, FCC by DoC

Remark:

Antenna requirement: This EUT's transmitter antenna is designed to be soldered on a printed circuit board, comply with §15.203 and inform to user that any change and modify is prohibited.

1.2. Tested Supporting System Details

1.2.1. LIGHT BULB

Watt : 60W

1.3. Description of Test Facility

Name of Firm : AUDIX Technology Corporation

EMC Department

No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan, R.O.C

Test Site : No. 3 Shielded Room

(C3/Semi-AC) No. 67-4, Dingfu, Linkou Dist.,

New Taipei City 244, Taiwan, R.O.C.

Semi-Anechoic Chamber

No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan, R.O.C. Federal Communication Commission

Registration Number: 90993 Date of Renewal: May 14, 2009

NVLAP Lab. Code : 200077-0

TAF Accreditation No : 1724

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	±1.73dB
	30MHz~300MHz	± 2.91dB
Radiation Test (Distance: 3m)	300MHz~1000MHz	± 2.94dB
(Distance, Jiii)	Above 1GHz	± 4.35dB

Remark : Uncertainty = $ku_c(y)$

Test Item	Uncertainty
Emission Bandwidth (20dB)	± 0.2kHz
Periodic Operated	± 0.05s

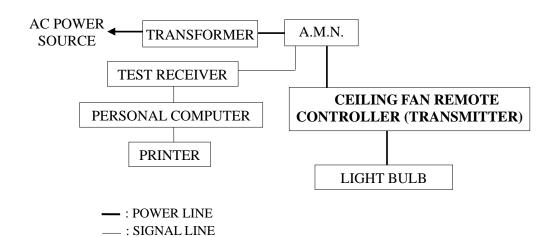
2. CONDUCTED EMISSION MEASUREMET

2.1. Test Equipment

The following test equipment was used during the conducted emission measurement: (No. 4 Shielded Room)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCS30	100339	Mar. 08, 11'	Mar. 07, 12'
2.	A.M.N.	R&S	ENV4200	825358/003	Dec. 30, 10'	Dec. 29, 11'
3.	L.I.S.N.	Kyoritsu	KNW-407	8-1430-5	Sep. 08, 11'	Sep. 07, 12'

2.2. Block Diagram of Test Setup



2.3. Conducted Emission Limits (§15.207)

Frequency	Maximum RF Line Voltage		
	Quasi-Peak Level	Average Level	
150kHz ~ 500kHz	66 ~ 56 dBμV	56 ~ 46 dBμV	
500kHz ~ 5MHz	56 dBμV	46 dBμV	
5MHz ~ 30MHz	60 dBμV	50 dBμV	

Remark 1.: If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2.: The lower limit applies at the band edges.

2.4. Operating Condition of EUT

- 2.4.1. Set up the EUT and simulator as shown on 2.2.
- 2.4.2. Turn on the power of all equipment.
- 2.4.3. The EUT was linked to the light bulb and on normal function during all testing.

2.5. Test Procedure

The EUT was put on table which was above the ground by 80cm and its AC adapter's power cord connected to the AC mains through an Artificial Mains Network (A.M.N.). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provided a 50 ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions simulators of the interface cables should be manipulated according to ANSI C63.4-2003, RSS-Gen and RSS-210 regulation during conducted measurement.

The bandwidth of the R&S Test Receiver ESCS30 was set at 9kHz.

The frequency range from 150kHz to 30MHz was checked.

All the final readings from Test Receiver were measured with the Quasi-Peak detector and Average detector. Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

2.6. Conducted Emission Measurement Results

PASSED.

(All the emissions not reported below are too low against the prescribed limits.)

The EUT was performed during this section testing and all the test results are attached in next pages.

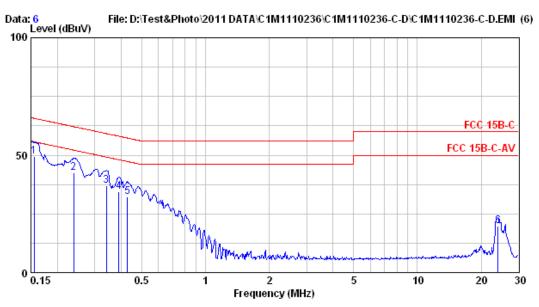
EUT: Ceiling Fan Remote Controller (Transmitter) M/N: TR82E

Test Date: Nov 30, 2011 Temperature: 27 Humidity: 60%

Reference Test Data: Neutral # 6; Line # 5



AUDIX TECHNOLOGY Corp. EMC Laboratory No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei County, Taiwan R.O.C. Post Code:24443 Tel:+886-2-26092133 Fax:+886-2-26099303 Email:ttemc@ttemc.com.tw



Site : NO.4 Shielded Room Data : 6

Condition : ESH2-Z5 Phase : NEUTRAL

Limit : FCC 15B-C

Env. / Ins. : 27*C/60% ESCS 30 (339) Engineer: Ken-Yang

EUT : TR82E

Power Rating : 120Vac / 60Hz Test Mode : Operating

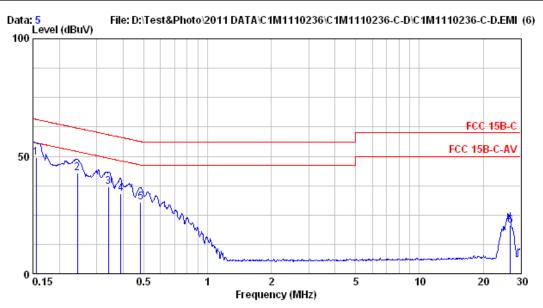
 	Freq. (MHz)	LISN Factor (dB)		Reading	Emission Level (dBµV)	Limits	Margin dB)	Remark	_
1	0.156	0.22	0.24	49.14	49.60	65.69	16.09	QP	
2	0.239	0.24	0.28	42.12	42.63	62.13	19.49	QP	
3	0.341	0.25	0.31	36.50	37.06	59.18	22.12	QP	
4	0.389	0.26	0.32	33.68	34.26	58.08	23.82	QP	
5	0.428	0.26	0.33	31.68	32.27	57.29	25.02	QP	
6	24.015	1.00	0.70	17.96	19.66	60.00	40.34	QP	

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.

2.If the average limit is met when using a quasi-peak detector , the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Site : NO.4 Shielded Room Data : 5 Condition : ESH2-25 Phase : LINE

Limit : FCC 15B-C

Env. / Ins. : 27*C/60% ESCS 30 (339) Engineer: Ken-Yang

EUT : TR82E

Power Rating : 120Vac / 60Hz Test Mode : Operating

_		Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading	Emission Level (dBµV)	Limits	Margin (dB)	Remark
	1	0.156	0.22	0.24	49.14	49.60	65.69	16.09	QP
	2	0.243	0.24	0.28	42.30	42.82	62.00	19.18	QP
	3	0.341	0.25	0.31	36.50	37.06	59.18	22.12	QP
	4	0.389	0.26	0.32	33.66	34.24	58.08	23.84	QP
	5	0.484	0.27	0.34	29.98	30.58	56.27	25.69	QP
	6	26.841	1.00	0.70	18.88	20.58	60.00	39.42	QP

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.

2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipment was used during the radiated emission test:

3.1.1. For Frequency Range 30MHz~1000MHz (Semi-Anechoic Chamber)

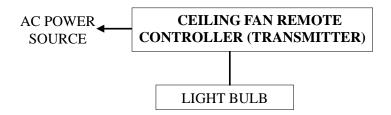
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 11'	Aug. 03, 12'
2.	Test Receiver	R & S	ESCS30	100338	Jul. 12, 11'	Jul. 11, 12'
3.	Amplifier	HP	8447D	2944A06305	Feb. 10, 11'	Feb. 09, 12'
4.	Log Periodic Antenna	Periodic Schwarzbeck		0810	Mar. 08, 11'	Mar. 07, 12'
5.	Biconical Antenna	CHASE	VBA6106A	1264	Mar. 08, 11'	Mar. 07, 12'
6.	Coaxial Switch	Anritsu	MP59B	6100226512	Feb. 01, 11'	Mar. 31, 12'

3.1.2. For Frequency Range above 1GHz (Semi-Anechoic Chamber)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 11'	Aug. 03, 12'
2.	Amplifier	HP	8449B	3008A00529	Dec. 10, 10'	Dec. 09, 11'
3.	Horn Antenna	EMCO	3115	9112-3775	May 09, 11'	May 08, 12'

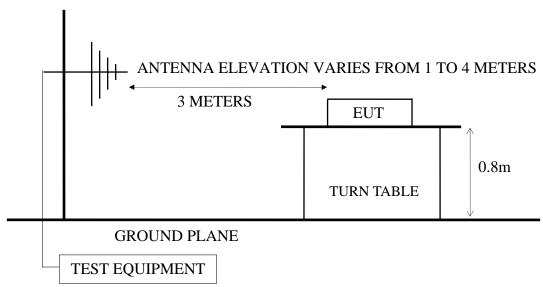
3.2. Test Setup

3.2.1. Block Diagram of connection between EUT and simulators



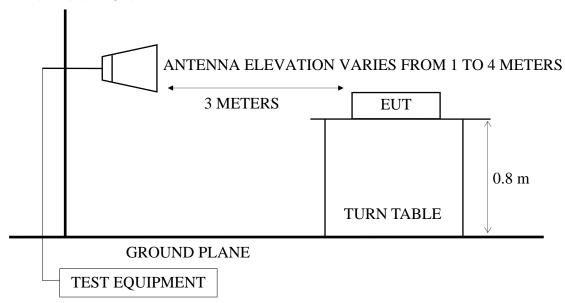
3.2.2. Semi-Anechoic Chamber (3m) Setup Diagram for 30-1000MHz

ANTENNA TOWER



3.2.3. Semi-Anechoic Chamber (3m) Setup Diagram for above 1GHz

ANTENNA TOWER



3.3. Radiation Emission Limits (§15.209)

3.3.1. Spurious Emission Limit (§15.209)

FREQUENCY	DISTANCE	FIELD STR	ENGTHS LIMITS
MHz	Meters	μV/m	dBμV/m
30 - 88	3	100	40.00
88 - 216	3	150	43.50
216 - 960	3	200	46.00
Above 960	3	500	54.00

Remarks: (1) Emission level $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$

- (2) The tighter limit applies at the edge between two frequency bands.
- (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. Operating Condition of EUT

- 3.4.1. Set up the **EUT** {Ceiling Fan Remote Controller (Transmitter)} and simulator as shown on 3.2.
- 3.4.2. Turn on the power.
- 3.4.3. The **EUT** {Ceiling Fan Remote Controller (Transmitter)} was operated on maximum transmitting status during all testing.

3.5. Test Procedure

The EUT and was placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set to 3 meters away from the receiving antenna which was mounted on an antenna tower. The antenna moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log- periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC ANSI C63.4-2003 regulation.

The bandwidth of test receiver was set at 120kHz for frequencies below 1GHz and resolution bandwidth of spectrum analyzer was set at 1MHz for frequencies above 1GHz.

The frequency range from 30MHz to 1000MHz was measured with Quasi-Peak detector.

The frequency range from 1GHz to up to 10th harmonics was pre-scanned with Peak detector.

EUT was tested during radiated measurement and all the test results are listed in section 3.6.

3.6. Radiated Emission Noise Measurement Results

3.6.1. Frequency Range 30MHz to 1GHz Measurement Results: PASSED.
All the emissions not reported below are too low against the FCC part 15 Subpart C limit.

Date of Test:	Dec. 12,	2011	Temper	rature:	24	
EUT:	Ceiling	Fan Rem (Transm	note Controlle nitter)	er Hun	nidity:	54%
Test Mode:			Operating			
Emission Frequency MHz	Antenna Factor dB/m	Loss	Horizontal	Emission Level Horizontal dBµV/m		Margin dB
Spurious / Harm	onic Freq. (Quasi-Pe	ak Value)			
	17.29 23.74 21.45 24.99	2.10 3.50 6.20 7.40	10.16 2.99 1.22 16.43 9.20 0.26	28.45 44.09 41.59	46.00 46.00	21.12 17.55 1.91 4.41
Emission Frequency MHz		Loss	Vertical	Emission Level Vertical dBµV/m		Margin dB
249.240	13.16 23.74 21.45	1.60 3.50 6.20	5.39 0.93 14.04	28.16	46.00 46.00	

Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.

^{2.} Measurement was up to 10th harmonics (~4GHz), but the emission levels were too low against the official limit and not report.

3.6.2. Frequency Range 1GHz to up to 10th harmonics Measurement Results: **PASSED.**

There is no emission be found from 1GHz to up to 10th harmonics.

4. FUNDAMENTAL MEASUREMENT

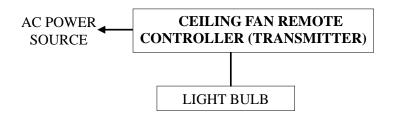
4.1. Test Equipment

The following test equipment was used during the radiated emission test:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 11'	Aug. 03, 12'
2.	Test Receiver	R & S	ESCS30	100338	Jul. 12, 11'	Jul. 11, 12'
3.	Amplifier	HP	8447D	2944A06305	Feb. 10, 11'	Feb. 09, 12'
4.	Log Periodic Antenna	Schwarzbeck	UHALP 9108-A	0810	Mar. 08, 11'	Mar. 07, 12'
5.	Biconical Antenna	CHASE	VBA6106A	1264	Mar. 08, 11'	Mar. 07, 12'
6.	Coaxial Switch	Anritsu	MP59B	6100226512	Feb. 01, 11'	Mar. 31, 12'

4.2. Test Setup

4.2.1. Block Diagram of connection between EUT and simulators



4.2.2. Semi-Anechoic Chamber (3m) Setup Diagram

ANTENNA TOWER ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS 3 METERS EUT O.8m TURN TABLE TEST EQUIPMENT

4.3. Radiation Emission Limits (15.231)

4.3.1. Fundamental Frequency Emission Limit (§15.231)

FREQUENCY	DISTANCE	ANCE FIELD STRENGTHS LIMI		
MHz Meters		μV/m	dBμV/m	
Fundamental Frequency	3	5583.3435	74.93 (Quasi-Peak)	
Harmonic	3	558.468	54.93 (Quasi-Peak)	

Remarks: (1) Emission level $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$

- (2) The tighter limit applies at the edge between two frequency bands.
- (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.
- (4) Where limit of Fundamental Freq. is calculated by: $41.6667x304-7083.3333=5583.3435\mu\text{V/m}=74.93dB\mu\text{V/m}$
- (5) The limits in this table are based on CFR 47 Part 15.231(b).

4.4. Operating Condition of EUT

- 4.4.1. Set up the **EUT** {Ceiling Fan Remote Controller (Transmitter)} and simulator as shown on 4.2.
- 4.4.2. Turn on the power.
- 4.4.3. The **EUT** {Ceiling Fan Remote Controller (Transmitter)} was operated on maximum transmitting status during all testing.

4.5. Test Procedure

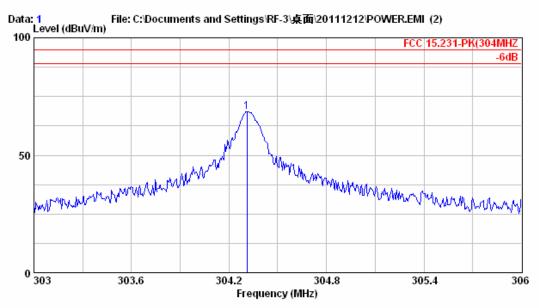
The EUT and was placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set to 3 meters away from the receiving antenna which was mounted on an antenna tower. The antenna moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log- periodical antenna or horn antenna is used as a receiving antenna. Both polarizations horizontal and vertical are set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC ANSI C63.4-2003 regulation.

EUT was tested during radiated measurement and all the test results are listed in section 4.6.

4.6. Fundamental Measurement Results



AUDIX TECHNOLOGY Corp. EMC Laboratory No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei County, Taiwan R.O.C. Post Code:24443 Tel:+886-2-26092133 Fax:+886-2-26099303 Email:ttemc@ttemc.com.tw



Site no. : A/C Chamber Data no. : 1

Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL

Limit : FCC 15.231-PK(304MHZ

Env. / Ins. : E4446A 24°C/54% DJarwei Wang

EUT : TR82E

Power Rating: 120Vac / 60HZ

Test Mode : POWER

	-	Factor	Loss	Reading (dBµV)	Emission Level (dBµV/m)		
1	304.311	14.87	3.90	49.88	68.65	QP	
Remar	ks: 1. Em	ission 1	Level=	Antenna	Factor +	Cable Loss +	Reading.

 The emission levels that are 20dB below the official limit are not reported.

Horizontal is the strongest polarization and QP value has complied with limit, so vertical won't be listed in test report.

Because RBW of spectrum is larger than PRF, thus PDCF is no need for finding true peak level.

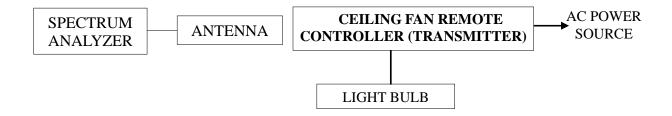
5. EMISSION BANDWIDTH MEASUREMENT

5.1. Test Equipment

The following test equipment was used during the Emission Bandwidth Test:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9010A-507	MY49061167	Feb. 24, 11'	Feb. 23, 12'
2.	Wide Band Antenna	Diamond	RH799	2944A06305	N/A	N/A

5.2. Block Diagram of Test Setup



5.3. Specification Limits (§15.231-(c))

The bandwidth of emission shall be no wider than 0.25% of the center frequency for device operating above 70MHz and below 900MHz. Bandwidth is determined at the points 20dB down from the modulated carrier.

5.4. Emission Bandwidth Measurement Results

PASS.

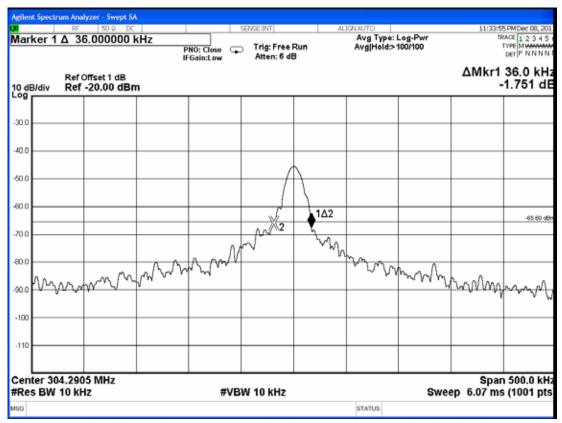
Fundamental Frequency: 304MHz

Test Date: Dec. 12, 2011 Temperature: 24 Humidity: 54%

No.	Center Frequency	Bandwidth	Tolerance (%)	
1.	304.000MHz	36kHz	0.01184%	

The bandwidth of emission was measured at the point 20dB down from the center frequency of modulated carrier.

Graph of Bandwidth Measurement



Note: "\$\Omega" The line is 20dB from the modulated carrier.

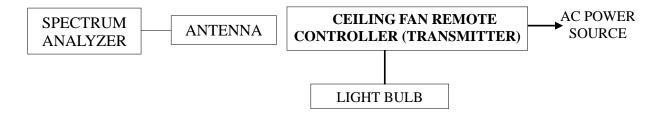
6. PERIODIC OPERATED MEASUREMENT

6.1. Test Equipment

The following test equipment was used during the periodic operated test:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9010A-507	MY49061167	Feb. 24, 11'	Feb. 23, 12'
2.	Wide Band Antenna	Diamond	RH799	2944A06305	N/A	N/A

6.2. Block Diagram of Test Setup



6.3. Specification Limits [§15.231-(a)-(1)]

The operation of this device is manually operated transmitter that is automatically deactivated the transmitter within not more than 5 seconds of being released, Compliance with §15.231 (a)- (1).

6.4. Periodic Operated Measurement Results

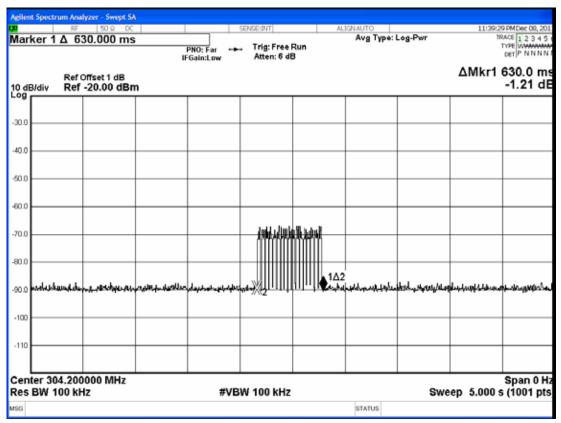
PASS. T = 0.63s. (< 5sec.)

Fundamental Frequency: 304MHz

Test Date: Dec. 12, 2011 Temperature: 24 Humidity: 54%

The graph of testing is attached in next page.

Graph of Periodic Operated Measurement



7. DEVIATION TO TEST SPECIFICATIONS

[NONE]