

Application for FCC Certification
On behalf of
NINGBO YALING ELECTRICAL APPLIANCE
CO., LTD
REMOTE CONTROLLER

Model No.: YLT-5C

Serial No.: F04060702

FCC ID : SA5YLT-5C

Prepared For : NINGBO YALING ELECTRICAL
APPLIANCE CO., LTD
ZHANGQI TOWN CIXI CITY NINGBO
ZHEJIANG, CHINA 315315

Prepared By : Audix Technology (Shanghai) Co., Ltd.
3 F 34 Bldg 680 Guiping Rd.,
Caohejing Hi-Tech Park,
Shanghai, China 200233

Tel : +86-21-64955500

Fax : +86-21-64955491

Report No. : ACI-F04046
Date of Test : Jun 22- Jul 05, 2004
Date of Report : Jul 06, 2004

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TEST REPORT FOR FCC CERTIFICATION

Applicant : NINGBO YALING ELECTRICAL APPLIANCE CO., LTD
Manufacturer : NINGBO YALING ELECTRICAL APPLIANCE CO., LTD
EUT Description : REMOTE CONTROLLER
(A) Model No. : YLT-5C
(B) Serial No. : F04060702
(C) Power Supply : Battery 12V
(D) Work Frequency: 315MHz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART C JULY 2003
AND ANSI C63.4:2001*

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 both radiated and conducted emissions.

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. Also, this report shows that the EUT (M/N: YLT-5C; S/N: F04060702), which was tested in 3m anechoic chamber on Jun 22-Jul 05, 2004 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 (Shanghai) Co., Ltd.

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

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

Date of Test : Jun 22-Jul 05, 2004

Prepared by : Cathrin Yin 2004.07.13 Test Engineer : Cloud Feng 2004.07.13
CATHRIN YIN CLOUD FENG
(Assistant) For and on behalf of
Audix Technology (Shanghai) Co., Ltd.
Reviewer : Sammy Chen 2004.07.13 Approved Signatory : Byron Kwo 13 Jul 04
SAMMY CHEN BYRON KWO
(Engineer) Authorized Signatory (Assistant Manager)

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test

Description : REMOTE CONTROLLER

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

Model No. : YLT-5C

Serial No. : F04060702

Applicant : NINGBO YALING ELECTRICAL
APPLIANCE CO., LTD
ZHANGQI TOWN CIXI CITY NINGBO
ZHEJIANG, CHINA 315315

Manufacturer : NINGBO YALING ELECTRICAL
APPLIANCE CO., LTD
ZHANGQI TOWN CIXI CITY NINGBO
ZHEJIANG, CHINA 315315

1.2 Description of Test Facility

Site Description (Semi-Anechoic Chamber) : Sept. 17, 1998 file on
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

NVLAP Lab Code : 200371-0

1.3 Measurement Uncertainty

Radiated Emission Uncertainty : $U = \pm 4.26\text{dB}$

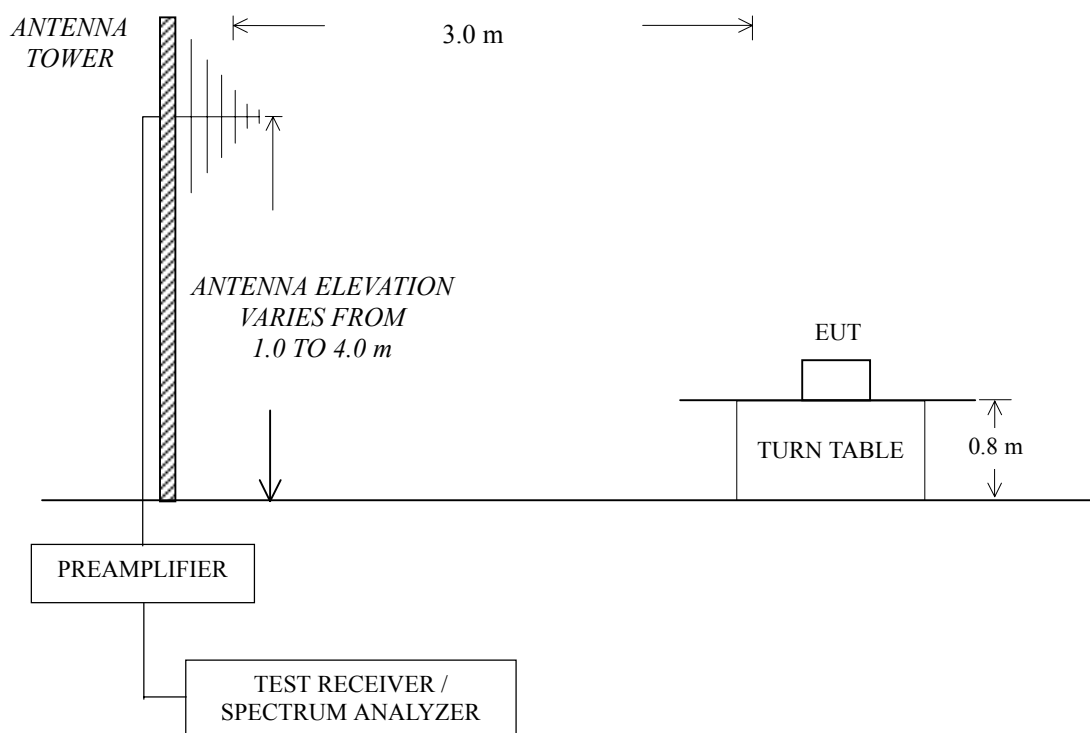
2 RADIATED EMISSION TEST

2.1 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.	Cal. Interval
1.	Spectrum Analyzer	HP	8593EM	3628A00167	Apr 22, 2004	1 Year
2.	Bilog Antenna	Chase	CBL6111	1145	Mar 20, 2004	1/2 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	832699/004	Apr 26, 2004	1 Year
4.	Preamplifier	HP	8447D	2944A06849	Mar 22, 2004	1/2 Year
5.	50Ω Coaxial Switch	Anritsu	MP59B	M74689	Mar 21, 2004	1/2 Year
6.	Amplifier	HP	8449B	3008A00864	Apr 20, 2004	1 Year
7.	Horn Antenna	EMCO	3115	9510-4580	Apr 20, 2004	1 Year
8.	Software	Audix	E3	SET00200 9912M295-2	-	-

2.2 Block Diagram of Test Setup



2.3 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 log 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.			

2.4 Test Configuration

The EUT was installed as show on Sec. 2.2 in radiated emission test to meet FCC requirement and operating in a manner which tend to maximize emission level in a normal application.

2.5 Operating Condition of EUT

- 2.5.1 Setup the EUT as shown in Sec. 2.2.
- 2.5.2 Turn on the power of all equipments and the EUT.
- 2.5.3 Set the EUT on the test modes, and then test.

2.6 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) was 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 interference cables were manipulated.

The bandwidth setting on Test Receiver ESVS10 is 120 kHz below 1000 MHz.
The bandwidth setting on Spectrum analyzer 8593EM is 1 MHz above 1000 MHz

The frequency range from 30 MHz to 3150 MHz was checked.

The test modes (2, 4, 6, 8, ON, OFF, photoelectric) were done on radiated disturbance test and only the worst mode (OFF mode) is listed in Sec.2.7.

2.7 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.

The worst emission at horizontal polarization was detected at 337.800 MHz with corrected signal level of 31.20 dB(μ V/m) (limit is 46.00 dB(μ V/m)), when the antenna was 1.20m height and the turn table was at 168°. The worst emission at vertical polarization was detected at 857.900 MHz with corrected signal level of 33.14 dB(μ V/m) (limit is 46.00 dB(μ V/m)), when the antenna was 1.00m height and the turn table was at 194°.

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

NOTE 1 – Probe Factor means Antenna Factor.

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

NOTE 3 – Factor = Cable Loss + Probe Factor.

NOTE 4 – The readings are Peak values when the frequency range is from 30MHz to 1000MHz. The readings are Peak and Average Values when the frequencies are above 1000MHz.

NOTE 5 – The Spectrum Analyzer was used in measuring Quasi-Peak Values and Average Values when the frequencies are above 1000MHz.

The Test Receiver was used in measuring Peak values when the frequency range is from 30MHz to 1000MHz.

EUT : REMOTE CONTROLLER Temperature : 25.7°C

Model No. : YLT-5C Humidity : 40%

Serial No. : F04070602

Test Mode : OFF Date of Test : Jun 22, 2004

Polarization	Frequency (MHz)		Meter Reading dB(μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB(μV/m)	Limits dB(μV/m)	Margin (dB)
Horizontal	QP	337.800	38.04	16.47	3.00	26.31	31.20	46.00	14.80
		385.400	27.11	18.09	3.19	26.66	21.73	46.00	24.27
		465.900	28.15	19.28	3.59	26.87	24.15	46.00	21.85
		579.300	27.92	20.96	4.07	27.25	25.70	46.00	20.30
		722.800	27.00	23.78	4.85	26.95	28.68	46.00	17.32
		924.400	26.86	22.81	5.52	25.89	29.30	46.00	16.70
	PK	1150.000	48.62	24.65	5.40	37.09	41.58	74.00	32.42
		2460.000	34.13	28.71	8.39	35.04	36.19	74.00	37.81
		3050.000	27.64	30.87	9.31	34.54	33.28	74.00	40.72
	AV	1150.000	39.64	24.65	5.40	37.09	32.60	54.00	21.40
		2460.000	22.34	28.71	8.39	35.04	34.40	54.00	19.60
		3050.000	15.46	30.87	9.31	34.54	21.10	54.00	32.90
Vertical	QP	344.800	39.49	16.72	2.98	26.15	33.04	46.00	12.96
		391.000	27.44	18.28	3.26	26.75	22.23	46.00	23.77
		465.900	28.15	19.28	3.59	26.87	24.15	46.00	21.85
		661.900	28.18	23.18	4.42	27.19	28.59	46.00	17.41
		857.900	31.99	22.47	5.07	26.39	33.14	46.00	12.86
		988.800	26.44	23.74	5.68	25.82	30.04	54.00	23.96
	PK	1150.000	47.33	24.65	5.40	37.09	40.49	74.00	33.31
		2460.000	35.62	28.71	8.39	35.04	37.68	74.00	36.32
		3050.000	28.36	30.87	9.31	34.54	34.00	74.00	40.00
	AV	1150.000	37.54	24.65	5.40	37.09	30.50	54.00	23.50
		2460.000	22.04	28.71	8.39	35.04	24.10	54.00	29.90
		3050.000	14.06	30.87	9.31	34.54	19.70	54.00	34.30

TEST ENGINEER: Cloud Feng
(CLOUD FENG)

3 FUNDAMENTAL AND SPURIOUS EMISSIONS TEST

3.1 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.	Cal. Interval
1.	Preamplifier	HP	8447D	2944A06849	Mar 22, 2004	1/2 Year
2.	Bilog Antenna	Chase	CBL6111	1145	Mar 20, 2004	1/2 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	832699/004	Apr 26, 2004	1 Year
4.	Amplifier	HP	8449B	3008A00864	Apr 20, 2004	1 Year
5.	Spectrum Analyzer	HP	8593EM	3628A00167	Apr 22, 2004	1 Year
6.	Horn Antenna	EMCO	3115	9510-4580	Apr 20, 2004	1 Year
7.	Oscilloscope	HP	54602B	US36181094	Mar 21, 2004	1/2 Year

3.2 Block Diagram of Test Setup

Same as Sec 2.2 except the frequency range which is above 1GHz and the antenna is fixed in 1 m high.

3.3 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 $\text{dB}(\mu\text{V/m}) = 20 \log \text{Emission Level } (\mu\text{V/m})$ 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 315.014MHz, Emission Level $\text{dB}(\mu\text{V/m}) = 20 \log(41.6667 * 315 - 7083.3333) = 75.62 \text{ dB } (\mu\text{V/m})$ and the limit of the Harmonic is 55.62 dB ($\mu\text{V/m}$).			

3.4 Test Configuration

The EUT was installed as show on Sec. 3.2 in fundamental and spurious 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 Turn on the power of all equipments and the EUT.
- 3.5.3 Set the EUT on the test mode, and then test.

3.6 Test Procedures

The EUT was placed on a table which is 0.8 meter above ground. The turn table 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) were used as receiving antenna below 1000MHz. Horn antenna were used as receiving antenna above 1000MHz. Both horizontal and vertical polarization of the antenna were 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 C63.4:2001 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 8593EM is 1 MHz above 1000 MHz.

The frequency range from 30 MHz to 4000 MHz was checked. The EUT rotated through three orthogonal axes to determine which attitude and configuration produces the highest emission.

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.

Because the margins of some points are too large, only the frequencies of the points which are below 1260MHz are recorded.

NOTE 1 – The meter readings are all 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 rain.

In the 2, 4, 6, 8, OFF, photoelectric test mode,

Correction Factor = $20\log((220+400+220)/3920) = -13.3801\text{dB}$

In the ON test mode, Correction Factor = $20\log((220+620)/3920)$
= -13.3801dB

(See Appendix I)

NOTE 4 – The Test Receiver was used in measuring Peak Values when the frequency range is from 30MHz to 1000MHz.

The Spectrum Analyzer was used in measuring Peak Values when the frequency range is above 1000MHz.

EUT : REMOTE CONTROLLER Temperature : 20.7°C

Model No. : YLT-5C Humidity : 53%

Serial No. : F04060702

Test Mode : 2 Date of Test : Jul 05, 2004

Direction	Polarization	Frequency (MHz)	Meter Reading dB(μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Correction Factor (dB)	Emission Level dB(μV/m)	Limits dB(μV/m)	Margin (dB)
Lying	Horizontal	315.0140	97.60	15.61	2.87	27.57	-13.3801	75.1299	75.62	0.4901
		630.0050	53.00	22.20	4.34	28.85	-13.3801	37.3099	55.62	18.3101
		945.0017	56.00	23.10	5.44	28.36	-13.3801	42.7999	55.62	12.8201
		1260.0000	51.80	25.02	5.76	36.83	-13.3801	32.3699	55.62	23.2501
	Vertical	315.0140	81.10	15.61	2.87	27.57	-13.3801	59.6299	75.62	16.9901
		630.0050	49.30	22.20	4.34	28.85	-13.3801	33.6099	55.62	22.0101
		945.0017	47.30	23.10	5.44	28.36	-13.3801	34.0999	55.62	21.5201
		1260.0000	44.70	25.02	5.76	36.83	-13.3801	25.1699	55.62	30.4501
Side	Horizontal	315.0140	91.50	15.61	2.87	27.57	-13.3801	69.0299	75.62	6.5901
		630.0050	53.00	22.20	4.34	28.85	-13.3801	37.3099	55.62	18.3101
		945.0017	51.80	23.10	5.44	28.36	-13.3801	38.5999	55.62	17.0201
		1260.0000	50.60	25.02	5.76	36.83	-13.3801	31.1699	55.62	24.4501
	Vertical	315.0140	89.20	15.61	2.87	27.57	-13.3801	66.7299	75.62	8.8901
		630.0050	55.70	22.20	4.34	28.85	-13.3801	40.0099	55.62	15.6101
		945.0017	51.30	23.10	5.44	28.36	-13.3801	38.0999	55.62	17.5201
		1260.0000	47.80	25.02	5.76	36.83	-13.3801	28.3699	55.62	27.2501
Stand	Horizontal	315.0140	85.90	15.61	2.87	27.57	-13.3801	63.4299	75.62	12.1901
		630.0050	52.20	22.20	4.34	28.85	-13.3801	36.5099	55.62	19.1101
		945.0017	47.60	23.10	5.44	28.36	-13.3801	34.3999	55.62	21.2201
		1260.0000	45.00	25.02	5.76	36.83	-13.3801	25.5699	55.62	30.0501
	Vertical	315.0140	92.10	15.61	2.87	27.57	-13.3801	69.6299	75.62	5.9901
		630.0050	58.50	22.20	4.34	28.85	-13.3801	42.8099	55.62	12.8101
		945.0017	41.40	23.10	5.44	28.36	-13.3801	38.1999	55.62	17.4201
		1260.0000	55.70	25.02	5.76	36.83	-13.3801	36.2699	55.62	19.3501

TEST ENGINEER: Cloud Feng
(CLOUD FENG)

EUT : REMOTE CONTROLLER Temperature : 20.7°C

Model No. : YLT-5C Humidity : 53%

Serial No. : F04060702

Test Mode : 4 Date of Test : Jul 05, 2004

Direction	Polarization	Frequency (MHz)	Meter Reading dB(μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Correction Factor (dB)	Emission Level dB(μV/m)	Limits dB(μV/m)	Margin (dB)
lying	Horizontal	315.0053	97.60	15.61	2.87	27.57	-13.3801	75.1299	75.62	0.4901
		630.0009	51.90	22.20	4.34	28.85	-13.3801	36.2099	55.62	19.4101
		944.9954	55.90	23.10	5.44	28.36	-13.3801	42.6999	55.62	12.9201
		1260.0000	51.10	25.02	5.76	36.83	-13.3801	31.6699	55.62	23.9501
	Vertical	315.0053	80.20	15.61	2.87	27.57	-13.3801	57.7299	75.62	17.8901
		630.0009	47.90	22.20	4.34	28.85	-13.3801	32.2099	55.62	23.4101
		944.9954	43.90	23.10	5.44	28.36	-13.3801	30.6999	55.62	24.9201
		1260.0000	47.10	25.02	5.76	36.83	-13.3801	27.6699	55.62	27.9501
Side	Horizontal	315.0053	93.10	15.61	2.87	27.57	-13.3801	70.6299	75.62	4.9901
		630.0009	46.90	22.20	4.34	28.85	-13.3801	31.2099	55.62	24.4101
		944.9954	51.10	23.10	5.44	28.36	-13.3801	37.8999	55.62	17.7201
		1260.0000	49.80	25.02	5.76	36.83	-13.3801	30.3699	55.62	25.2501
	Vertical	315.0053	80.60	15.61	2.87	27.57	-13.3801	58.1299	75.62	17.4901
		630.0009	55.60	22.20	4.34	28.85	-13.3801	39.9099	55.62	15.7101
		944.9954	52.10	23.10	5.44	28.36	-13.3801	38.8999	55.62	16.7201
		1260.0000	50.40	25.02	5.76	36.83	-13.3801	30.9699	55.62	24.6501
Stand	Horizontal	315.0053	85.90	15.61	2.87	27.57	-13.3801	63.4299	75.62	12.1901
		630.0009	51.80	22.20	4.34	28.85	-13.3801	36.1099	55.62	19.5101
		944.9954	47.30	23.10	5.44	28.36	-13.3801	34.0999	55.62	21.5201
		1260.0000	46.20	25.02	5.76	36.83	-13.3801	26.7699	55.62	28.8501
	Vertical	315.0053	91.80	15.61	2.87	27.57	-13.3801	69.3299	75.62	6.2901
		630.0009	59.90	22.20	4.34	28.85	-13.3801	44.2099	55.62	11.4101
		944.9954	55.10	23.10	5.44	28.36	-13.3801	41.8999	55.62	13.7201
		1260.0000	36.10	25.02	5.76	36.83	-13.3801	16.6699	55.62	38.9501

TEST ENGINEER: cloud Feng
(CLOUD FENG)

EUT : REMOTE CONTROLLER Temperature : 20.7°C

Model No. : YLT-5C Humidity : 53%

Serial No. : F04060702

Test Mode : 6 Date of Test : Jul 05, 2004

Direction	Polarization	Frequency (MHz)	Meter Reading dB(μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Correction factor (dB)	Emission Level dB(μV/m)	Limits dB(μV/m)	Margin (dB)
Lying	Horizontal	315.0001	97.50	15.61	2.87	27.57	-13.3801	75.0299	75.62	0.5901
		629.9942	53.70	22.20	4.34	28.85	-13.3801	38.0099	55.62	17.6101
		945.0024	55.40	23.10	5.44	28.36	-13.3801	42.1999	55.62	13.4201
		1260.0000	53.10	25.02	5.76	36.83	-13.3801	36.6699	55.62	21.9501
	Vertical	315.0001	79.70	15.61	2.87	27.57	-13.3801	57.2299	75.62	18.3901
		629.9942	47.20	22.20	4.34	28.85	-13.3801	91.5099	55.62	24.1101
		945.0024	43.10	23.10	5.44	28.36	-13.3801	29.8999	55.62	27.7201
		1260.0000	44.20	25.02	5.76	36.83	-13.3801	24.7699	55.62	30.8501
Side	Horizontal	315.0001	91.40	15.61	2.87	27.57	-13.3801	68.9299	75.62	6.6901
		629.9942	45.80	22.20	4.34	28.85	-13.3801	30.1099	55.62	25.5101
		945.0024	49.50	23.10	5.44	28.36	-13.3801	36.2999	55.62	19.3201
		1260.0000	48.90	25.02	5.76	36.83	-13.3801	29.4699	55.62	26.1501
	Vertical	315.0001	89.90	15.61	2.87	27.57	-13.3801	67.4299	75.62	8.1901
		629.9942	56.10	22.20	4.34	28.85	-13.3801	40.4099	55.62	15.2101
		945.0024	52.20	23.10	5.44	28.36	-13.3801	38.9999	55.62	16.6201
		1260.0000	49.40	25.02	5.76	36.83	-13.3801	29.9699	55.62	25.6501
Stand	Horizontal	315.0001	87.80	15.61	2.87	27.57	-13.3801	65.3299	75.62	10.2901
		629.9942	52.90	22.20	4.34	28.85	-13.3801	37.2099	55.62	18.4101
		945.0024	45.50	23.10	5.44	28.36	-13.3801	32.2999	55.62	24.3201
		1260.0000	46.40	25.02	5.76	36.83	-13.3801	26.9699	55.62	28.6501
	Vertical	315.0001	93.40	15.61	2.87	27.57	-13.3801	70.9299	75.62	4.6901
		629.9942	57.00	22.20	4.34	28.85	-13.3801	41.3099	55.62	14.3101
		945.0024	52.80	23.10	5.44	28.36	-13.3801	39.5999	55.62	16.0201
		1260.0000	53.70	25.02	5.76	36.83	-13.3801	34.2699	55.62	21.3501

TEST ENGINEER: cloud Feng
(CLOUD FENG)

EUT : REMOTE CONTROLLER Temperature : 20.7°C

Model No. : YLT-5C Humidity : 53%

Serial No. : F04060702

Test Mode : 8 Date of Test : Jul 05, 2004

Direction	Polarization	Frequency (MHz)	Meter Reading dB(μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Correction factor (dB)	Emission Level dB(μV/m)	Limits dB(μV/m)	Margin (dB)
lying	Horizontal	315.0005	97.50	15.61	2.87	27.57	-13.3801	75.0299	75.62	0.5901
		630.0043	53.90	22.20	4.34	28.85	-13.3801	38.2099	55.62	17.4101
		945.0031	56.90	23.10	5.44	28.36	-13.3801	43.6999	55.62	12.9201
		1260.0000	50.30	25.02	5.76	36.83	-13.3801	30.8699	55.62	24.7501
	Vertical	315.0005	80.80	15.61	2.87	27.57	-13.3801	58.3299	75.62	17.2901
		630.0043	47.10	22.20	4.34	28.85	-13.3801	31.4099	55.62	24.2101
		945.0031	47.10	23.10	5.44	28.36	-13.3801	33.8999	55.62	21.7201
		1260.0000	46.20	25.02	5.76	36.83	-13.3801	26.7699	55.62	28.8501
Side	Horizontal	315.0005	91.60	15.61	2.87	27.57	-13.3801	69.1299	75.62	6.4901
		630.0043	46.00	22.20	4.34	28.85	-13.3801	30.3099	55.62	25.3101
		945.0031	50.00	23.10	5.44	28.36	-13.3801	36.7999	55.62	18.8201
		1260.0000	50.00	25.02	5.76	36.83	-13.3801	30.5699	55.62	25.0501
	Vertical	315.0005	81.20	15.61	2.87	27.57	-13.3801	58.7299	75.62	16.8901
		630.0043	58.50	22.20	4.34	28.85	-13.3801	42.8099	55.62	12.8101
		945.0031	51.50	23.10	5.44	28.36	-13.3801	38.2999	55.62	17.3201
		1260.0000	50.80	25.02	5.76	36.83	-13.3801	31.3699	55.62	24.2501
Stand	Horizontal	315.0005	87.30	15.61	2.87	27.57	-13.3801	64.8299	75.62	10.7901
		630.0043	49.80	22.20	4.34	28.85	-13.3801	34.1099	55.62	21.5101
		945.0031	47.40	23.10	5.44	28.36	-13.3801	34.1999	55.62	21.4201
		1260.0000	46.00	25.02	5.76	36.83	-13.3801	26.5699	55.62	29.0501
	Vertical	315.0005	91.10	15.61	2.87	27.57	-13.3801	68.6299	75.62	6.9901
		630.0043	54.30	22.20	4.34	28.85	-13.3801	38.6099	55.62	17.0101
		945.0031	53.10	23.10	5.44	28.36	-13.3801	39.8999	55.62	15.7201
		1260.0000	53.60	25.02	5.76	36.83	-13.3801	34.1699	55.62	21.4501

TEST ENGINEER: Cloud Feng
(CLOUD FENG)

EUT : REMOTE CONTROLLER Temperature : 20.7°C

Model No. : YLT-5C Humidity : 53%

Serial No. : F04060702

Test Mode : ON Date of Test : Jul 05, 2004

Direction	Polarization	Frequency (MHz)	Meter Reading dB(μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Correction factor (dB)	Emission Level dB(μV/m)	Limits dB(μV/m)	Margin (dB)
Lying	Horizontal	315.0233	95.80	15.61	2.87	27.57	-13.3801	73.3299	75.62	2.2901
		630.0184	67.50	22.20	4.34	28.85	-13.3801	51.2099	55.62	3.8101
		945.0418	56.10	23.10	5.44	28.36	-13.3801	42.8999	55.62	12.7201
		1260.0000	55.70	25.02	5.76	36.83	-13.3801	36.2699	55.62	19.3501
	Vertical	315.0233	79.10	15.61	2.87	27.57	-13.3801	56.6299	75.62	18.9901
		630.0184	56.70	22.20	4.34	28.85	-13.3801	41.0099	55.62	14.6101
		945.0418	46.80	23.10	5.44	28.36	-13.3801	33.5999	55.62	22.0201
		1260.0000	50.30	25.02	5.76	36.83	-13.3801	30.8699	55.62	24.7501
Side	Horizontal	315.0233	91.30	15.61	2.87	27.57	-13.3801	68.8299	75.62	6.7901
		630.0184	63.10	22.20	4.34	28.85	-13.3801	47.4099	55.62	8.2101
		945.0418	51.10	23.10	5.44	28.36	-13.3801	37.8999	55.62	17.7201
		1260.0000	50.90	25.02	5.76	36.83	-13.3801	31.4699	55.62	24.1501
	Vertical	315.0233	80.30	15.61	2.87	27.57	-13.3801	57.8299	75.62	17.7901
		630.0184	63.00	22.20	4.34	28.85	-13.3801	47.3099	55.62	8.3101
		945.0418	50.90	23.10	5.44	28.36	-13.3801	37.6999	55.62	17.9201
		1260.0000	51.00	25.02	5.76	36.83	-13.3801	31.5699	55.62	24.0501
Stand	Horizontal	315.0233	85.20	15.61	2.87	27.57	-13.3801	62.7299	75.62	12.8901
		630.0184	60.80	22.20	4.34	28.85	-13.3801	45.1099	55.62	10.5101
		945.0418	44.80	23.10	5.44	28.36	-13.3801	29.5999	57.62	24.0201
		1260.0000	45.00	25.02	5.76	36.83	-13.3801	25.5699	55.62	30.0501
	Vertical	315.0233	92.00	15.61	2.87	27.57	-13.3801	69.5299	75.62	6.0901
		630.0184	65.90	22.20	4.34	28.85	-13.3801	50.2099	55.62	5.4101
		945.0418	55.50	23.10	5.44	28.36	-13.3801	42.2999	55.62	13.3201
		1260.0000	56.40	25.02	5.76	36.83	-13.3801	36.9699	55.62	18.6501

TEST ENGINEER: Cloud Feng
(CLOUD FENG)

EUT : REMOTE CONTROLLER Temperature : 20.7°C

Model No. : YLT-5C Humidity : 53%

Serial No. : F04060702

Test Mode : OFF Date of Test : Jul 05, 2004

Direction	Polarization	Frequency (MHz)	Meter Reading dB(μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Correction factor (dB)	Emission Level dB(μV/m)	Limits dB(μV/m)	Margin (dB)
lying	Horizontal	315.0015	97.60	15.61	2.87	27.57	-13.3801	75.1299	75.62	0.4901
		630.0044	64.30	22.20	4.34	28.85	-13.3801	48.6099	55.62	7.0101
		944.997	56.50	23.10	5.44	28.36	-13.3801	43.2999	55.62	12.3201
		1260.0000	55.00	25.02	5.76	36.83	-13.3801	35.5699	55.62	20.0501
	Vertical	315.0015	80.00	15.61	2.87	27.57	-13.3801	57.5299	75.62	18.0901
		630.0044	57.40	22.20	4.34	28.85	-13.3801	41.7099	55.62	13.9101
		944.997	47.50	23.10	5.44	28.36	-13.3801	34.2999	55.62	21.3201
		1260.0000	45.60	25.02	5.76	36.83	-13.3801	26.1699	55.62	29.4501
Side	Horizontal	315.0015	92.30	15.61	2.87	27.57	-13.3801	69.8299	75.62	5.7901
		630.0044	63.30	22.20	4.34	28.85	-13.3801	47.6099	55.62	8.0101
		944.997	50.20	23.10	5.44	28.36	-13.3801	36.9999	55.62	18.6201
		1260.0000	49.80	25.02	5.76	36.83	-13.3801	30.3699	55.62	25.2501
	Vertical	315.0015	79.10	15.61	2.87	27.57	-13.3801	56.6299	75.62	18.9901
		630.0044	62.00	22.20	4.34	28.85	-13.3801	46.3099	55.62	9.3101
		944.997	55.70	23.10	5.44	28.36	-13.3801	42.4999	55.62	13.1201
		1260.0000	47.40	25.02	5.76	36.83	-13.3801	27.9699	55.62	27.6501
Stand	Horizontal	315.0015	88.40	15.61	2.87	27.57	-13.3801	65.9299	75.62	9.6901
		630.0044	55.00	22.20	4.34	28.85	-13.3801	39.3099	55.62	16.3101
		944.997	52.70	23.10	5.44	28.36	-13.3801	39.4999	55.62	16.1201
		1260.0000	45.60	25.02	5.76	36.83	-13.3801	26.1699	55.62	29.4501
	Vertical	315.0015	91.70	15.61	2.87	27.57	-13.3801	69.2299	75.62	6.3901
		630.0044	64.80	22.20	4.34	28.85	-13.3801	49.1099	55.62	6.5101
		944.997	50.60	23.10	5.44	28.36	-13.3801	37.3999	55.62	18.2201
		1260.0000	58.50	25.02	5.76	36.83	-13.3801	39.0699	55.62	16.5501

TEST ENGINEER: Cloud Feng
(CLOUD FENG)

EUT : REMOTE CONTROLLER Temperature : 20.7°C

Model No. : YLT-5C Humidity : 53%

Serial No. : F04060702

Test Mode : photoelectric Date of Test : Jul 05, 2004

Direction	Polarization	Frequency (MHz)	Meter Reading dB(μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Correction factor (dB)	Emission Level dB(μV/m)	Limits dB(μV/m)	Margin (dB)
lying	Horizontal	315.0013	97.60	15.61	2.87	27.57	-13.3801	75.1299	75.62	0.4901
		360.0025	53.60	22.20	4.34	28.85	-13.3801	37.9099	55.62	17.7101
		945.0027	55.20	23.10	5.44	28.36	-13.3801	41.9999	55.62	13.6201
		1260.0000	50.80	25.02	5.76	36.83	-13.3801	31.3699	55.62	24.2501
	Vertical	315.0013	79.30	15.61	2.87	27.57	-13.3801	56.8299	75.62	18.7901
		360.0025	47.00	22.20	4.34	28.85	-13.3801	31.3099	55.62	24.3101
		945.0027	43.50	23.10	5.44	28.36	-13.3801	30.2999	55.62	25.3201
		1260.0000	46.90	25.02	5.76	36.83	-13.3801	27.4699	55.62	28.1501
Side	Horizontal	315.0013	90.90	15.61	2.87	27.57	-13.3801	68.4299	75.62	7.1901
		360.0025	50.90	22.20	4.34	28.85	-13.3801	35.2099	55.62	20.4101
		945.0027	45.60	23.10	5.44	28.36	-13.3801	32.3999	55.62	23.2201
		1260.0000	51.00	25.02	5.76	36.83	-13.3801	31.5699	55.62	24.0501
	Vertical	315.0013	80.30	15.61	2.87	27.57	-13.3801	57.8299	75.62	17.7901
		360.0025	57.30	22.20	4.34	28.85	-13.3801	41.6099	55.62	14.0101
		945.0027	51.40	23.10	5.44	28.36	-13.3801	38.1999	55.62	17.4201
		1260.0000	48.00	25.02	5.76	36.83	-13.3801	28.5699	55.62	27.0501
Stand	Horizontal	315.0013	88.30	15.61	2.87	27.57	-13.3801	65.8299	75.62	9.7901
		360.0025	48.00	22.20	4.34	28.85	-13.3801	32.3099	55.62	23.3101
		945.0027	46.50	23.10	5.44	28.36	-13.3801	33.2999	55.62	22.3201
		1260.0000	41.50	25.02	5.76	36.83	-13.3801	22.0699	55.62	33.5501
	Vertical	315.0013	89.80	15.61	2.87	27.57	-13.3801	67.3299	75.62	8.2901
		360.0025	57.10	22.20	4.34	28.85	-13.3801	41.4099	55.62	14.2101
		945.0027	53.10	23.10	5.44	28.36	-13.3801	39.8999	55.62	15.7201
		1260.0000	54.80	25.02	5.76	36.83	-13.3801	35.3699	55.62	20.2501

TEST ENGINEER: Cloud Feng
(CLOUD FENG)

4 BANDWIDTH MEASUREMENT

4.1 Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESVS10	832699/004	Apr 26, 2004	1 Year
2.	Bilog Antenna	Chase	CBL6111	1145	Mar 20, 2004	1/2 Year
3.	Preamplifier	HP	8447D	2944A06849	Mar 22, 2004	1/2 Year
4	Software	Audix	E3	SET00200 9912M295-2	-	-

4.2 Bandwidth Limit

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

Bandwidth Limit is:

Limit= $0.25\% \times 315.017(\text{MHz}) = 0.7875(\text{MHz})$ (Test mode: 2)

Limit= $0.25\% \times 315.016(\text{MHz}) = 0.7875(\text{MHz})$ (Test mode: 4)

Limit= $0.25\% \times 315.205(\text{MHz}) = 0.7880(\text{MHz})$ (Test mode: 6)

Limit= $0.25\% \times 315.012(\text{MHz}) = 0.7875(\text{MHz})$ (Test mode: 8)

Limit= $0.25\% \times 315.003(\text{MHz}) = 0.7875(\text{MHz})$ (Test mode: ON)

Limit= $0.25\% \times 315.013(\text{MHz}) = 0.7875(\text{MHz})$ (Test mode: OFF)

Limit= $0.25\% \times 315.014(\text{MHz}) = 0.7875(\text{MHz})$ (Test mode: photoelectric)

The bandwidth of Test Receiver (M/N: ESVS10) is 10KHz in the test.

4.3 Test Results

<PASS>

The bandwidth of the Fundament emission is:

B.W. = $315.202 - 314.810 = 0.392\text{MHz}$ (Test mode: 2)

B.W. = $315.198 - 314.803 = 0.385\text{MHz}$ (Test mode: 4)

B.W. = $315.205 - 314.803 = 0.402\text{MHz}$ (Test mode: 6)

B.W. = $315.199 - 314.803 = 0.396\text{MHz}$ (Test mode: 8)

B.W. = $315.191 - 314.792 = 0.399\text{MHz}$ (Test mode: ON)

B.W. = $315.202 - 314.800 = 0.402\text{MHz}$ (Test mode: OFF)

B.W. = $315.202 - 314.800 = 0.402\text{MHz}$ (Test mode: photoelectric)

(See Appendix II)

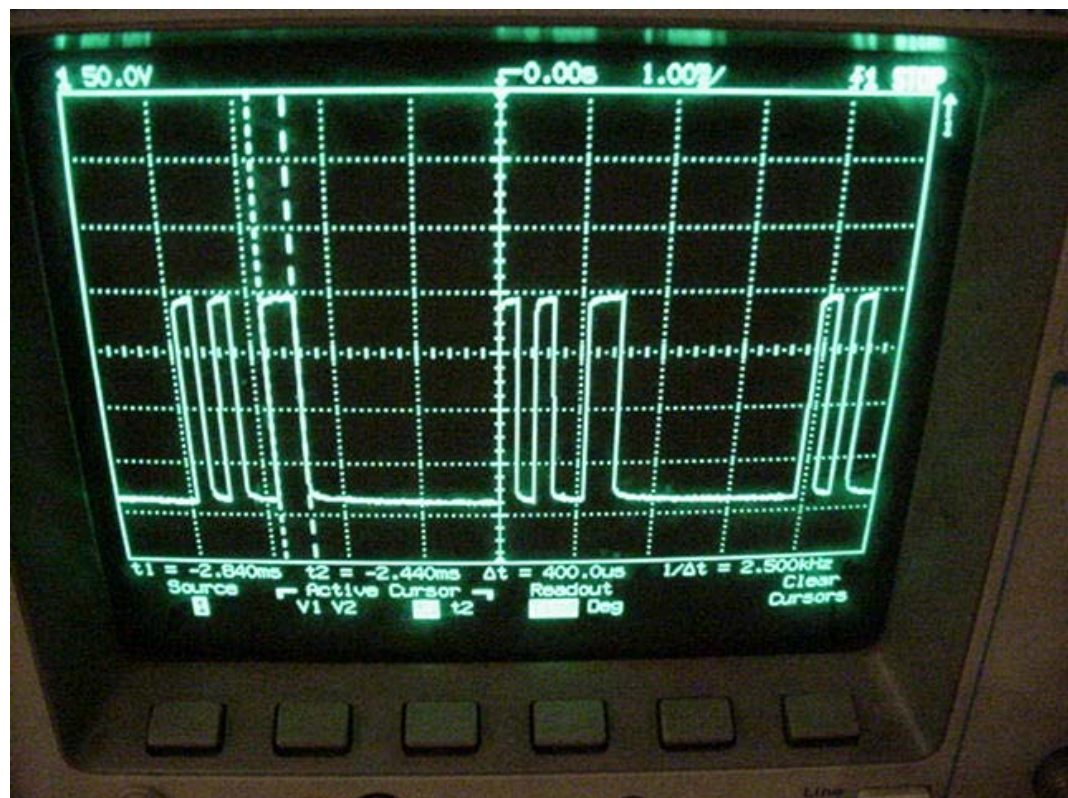
5 OPERATION DESCRIPTION

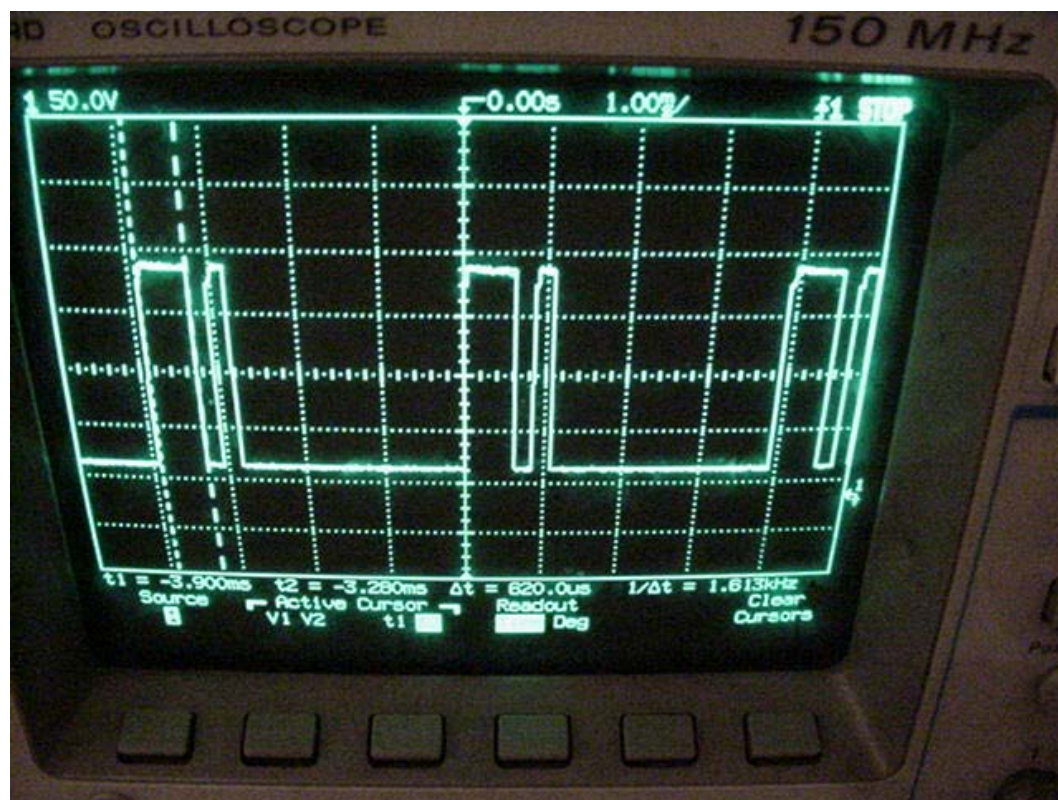
REMOTE CONTROLLER (M/N: YLT-5C) employ a switch that will automatically deactivate the Controller within not more than 5 seconds of being released.

APPENDIX I

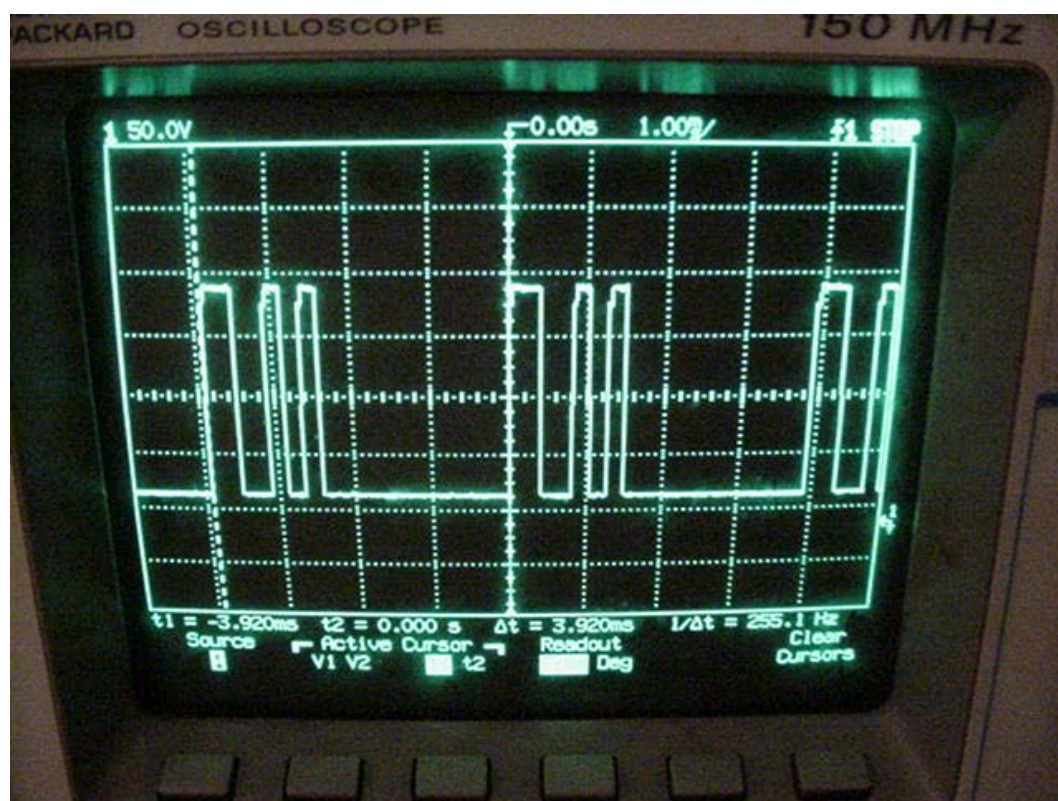
Plot of the Pulse Train

The High Level Bandwidth:

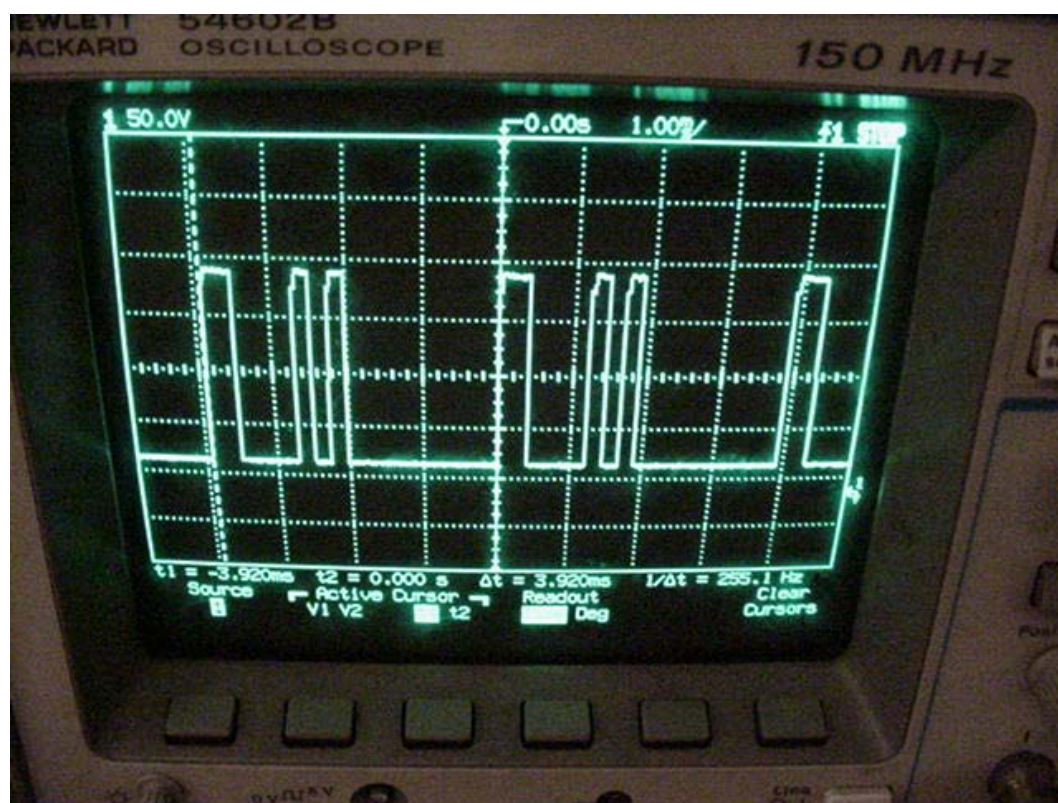




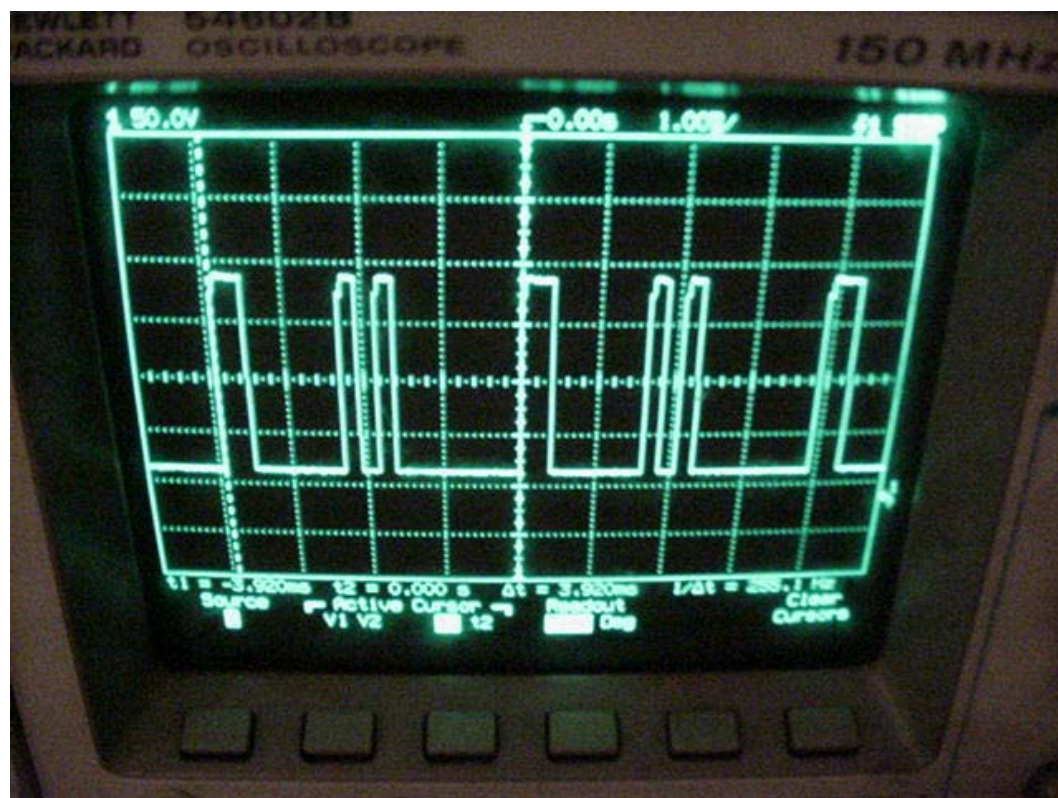
For Test Mode: 2



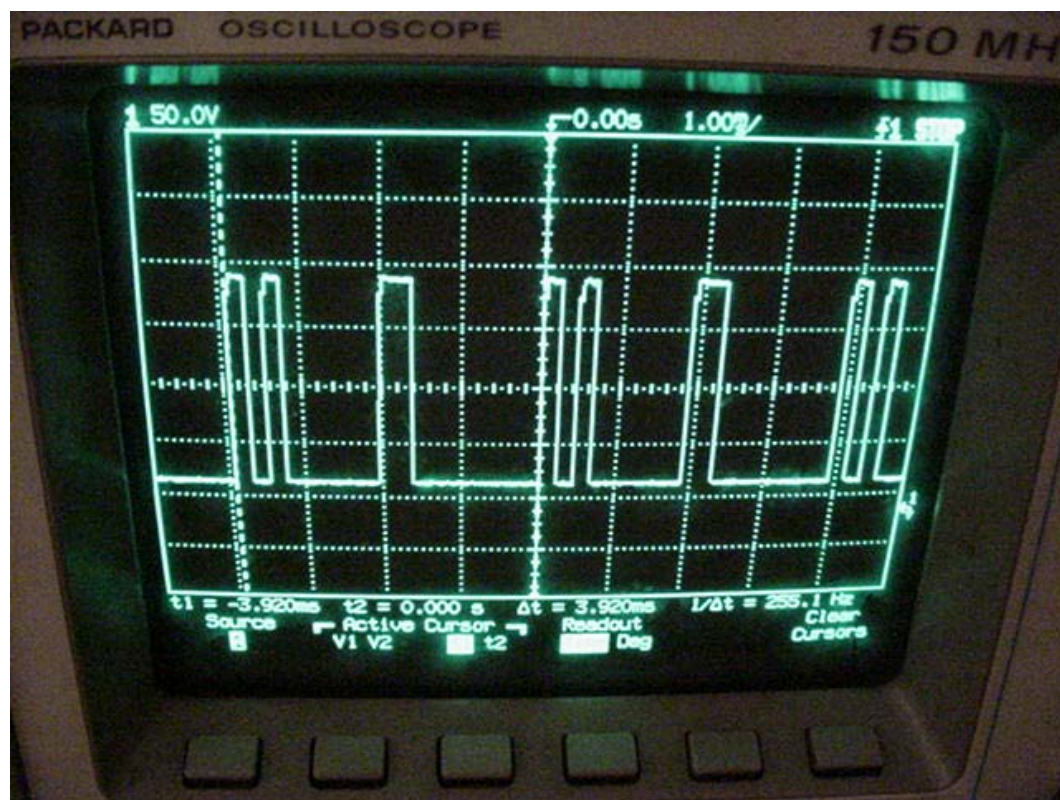
For Test Mode: 4



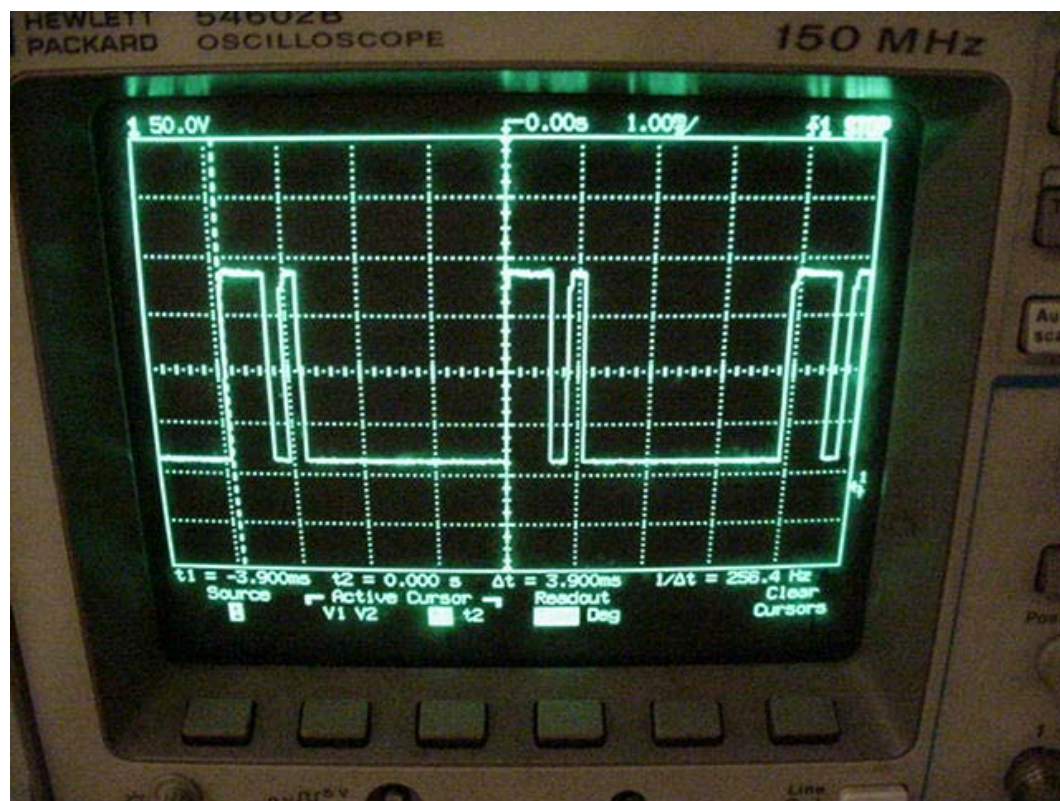
For Test Mode: 6



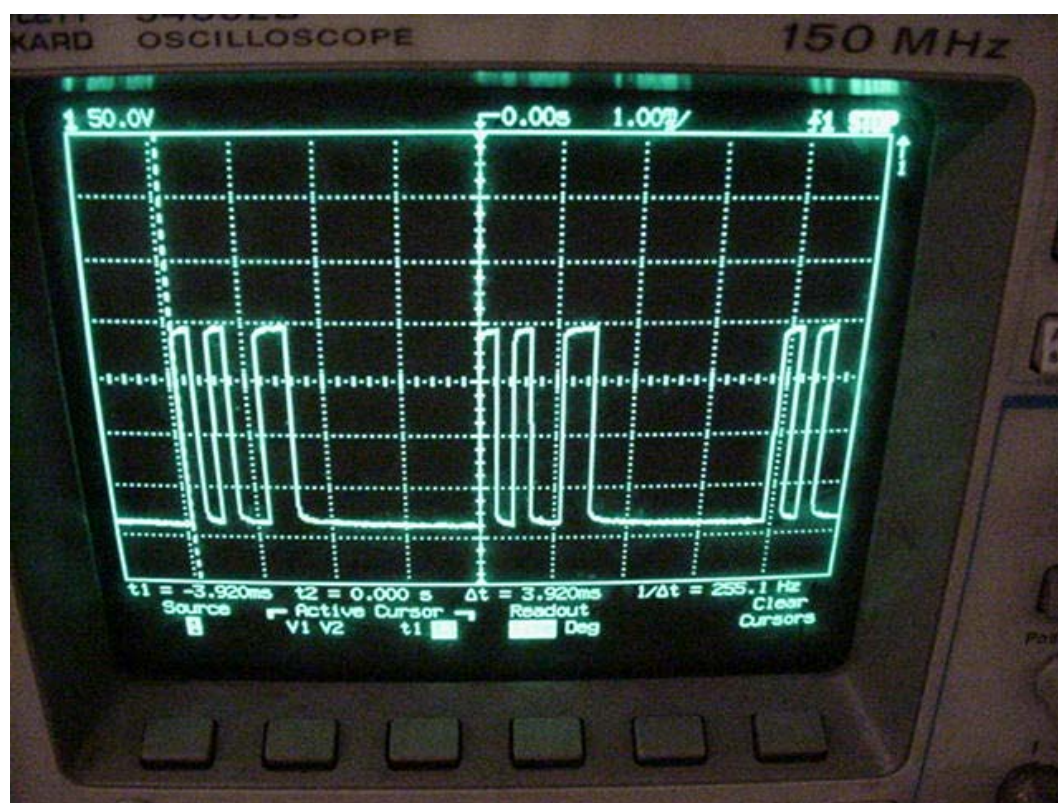
For Test Mode: 8



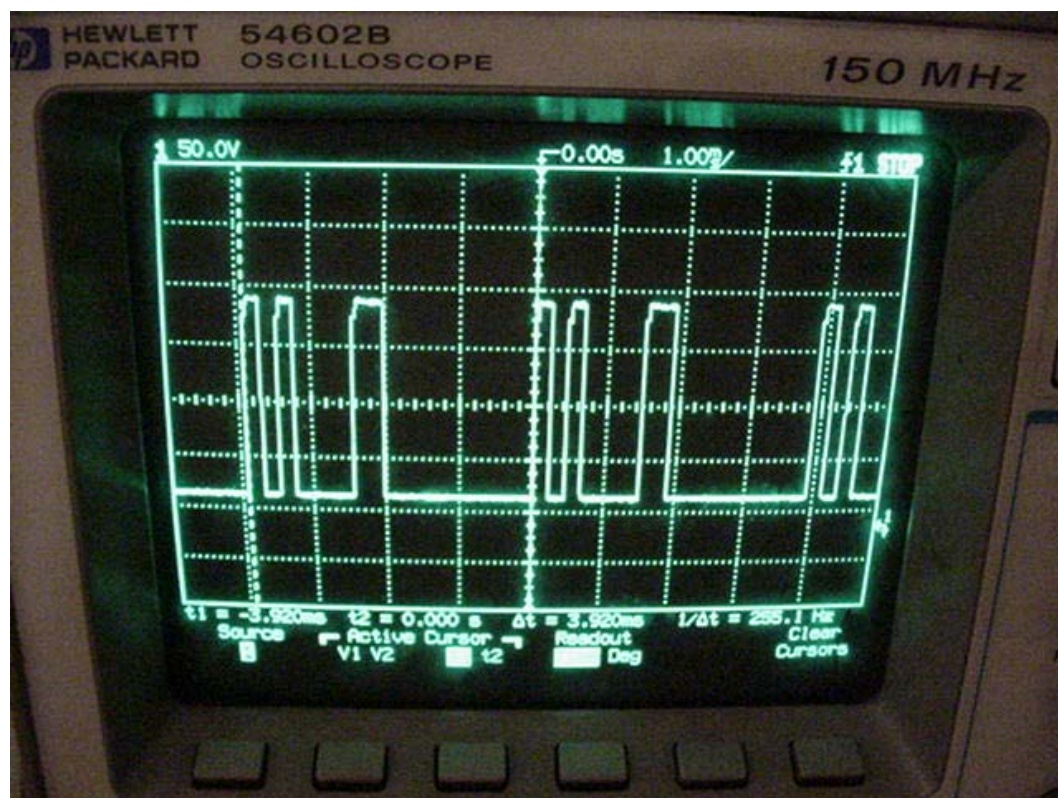
For Test Mode: ON



For Test Mode: OFF



For Test Mode: photoelectric



APPENDIX II

Plot of the Occupied Bandwidth

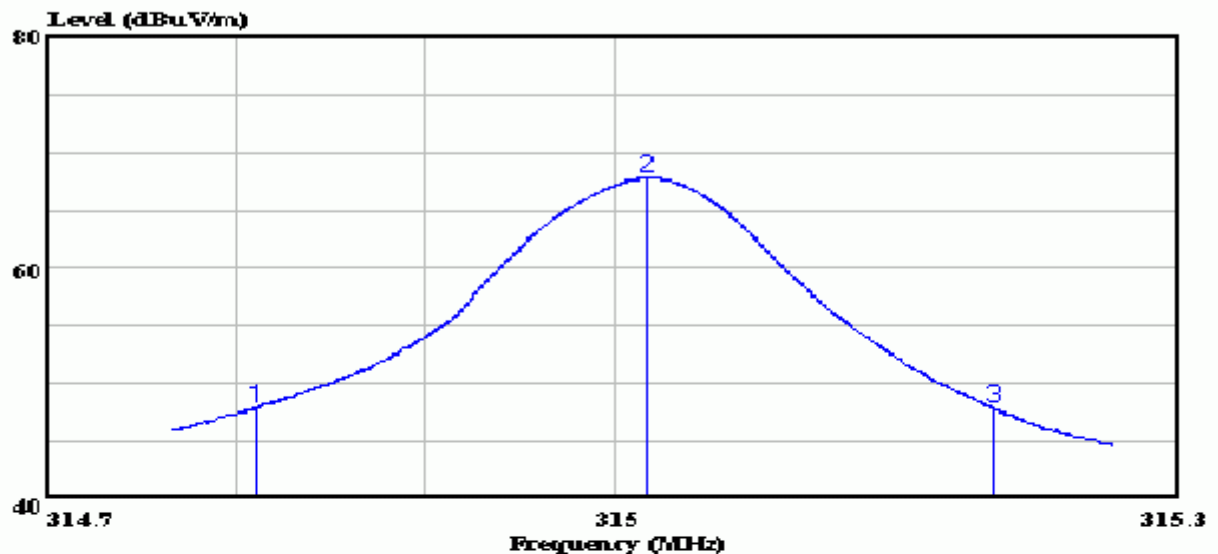
For Test Mode: 2



3F #34Bldg. No.680 GuiPing Rd.,
CaoHeJing Hi-Tech Park,
Shanghai, China
Tel:+86-21-64955500
Fax:+86-21-64955491
aciemc@audix.com

Data#: 248 File#: D:\EMI_TEST\Data\Y\YaLing.EMI

Date: 2004-06-29 Time: 19:02:03



Site : audix-aci NO.3 CHAMBER
Condition : 3m VERTICAL
Project No. : AOE-000676
Applicant : NINGBO YALING ELECTRICAL APPLIANCE
Applicant2 : CO., LTD.
EUT : REMOTE CONTROLLER
M/N : YLT-5C
S/N : F04060702
Ambient : 25.7C, 40%
Power Supply : battery 12V
Test Mode : 2
Test Engineer:

Page: 1

	Freq	Read Level	Level	Limit Line	Over Limit	Factor	Probe Factor	Cable Loss	Preamplifier Factor
	MHz	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB	dB
1	314.810	57.15	47.90	-----	-----	-9.25	15.76	2.56	27.57
2	315.017	77.02	67.80	-----	-----	-9.22	15.78	2.57	27.57
3	315.202	57.06	47.84	-----	-----	-9.22	15.78	2.57	27.57

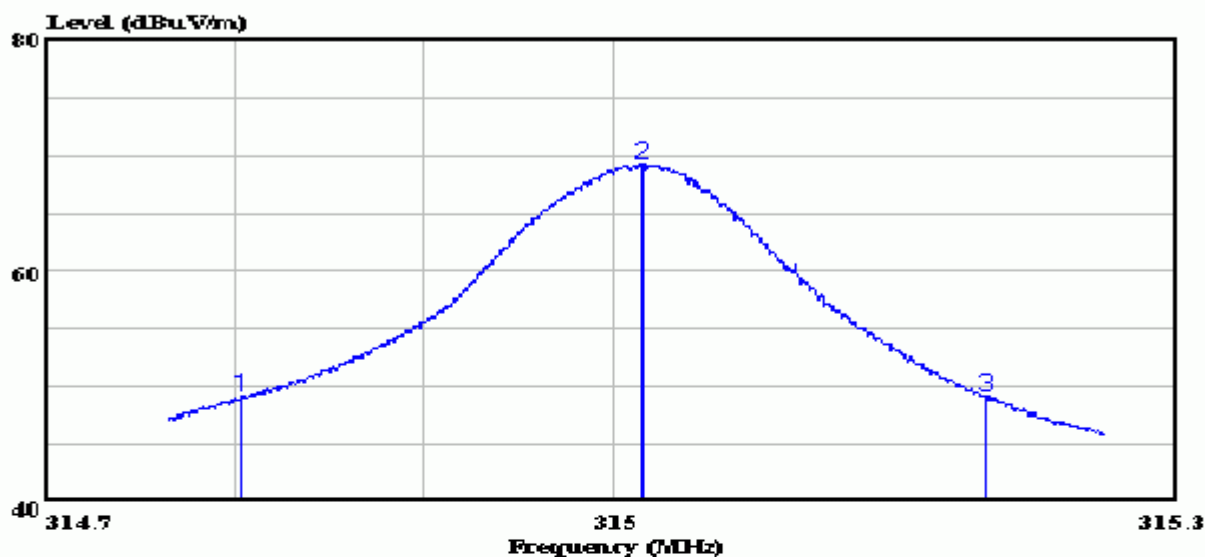
For Test Mode: 4



3F #34Bldg. No.680 GuiPing Rd.,
CaoHeJing Hi-Tech Park,
Shanghai, China
Tel:+86-21-64955500
Fax:+86-21-64955491
aciemc@audix.com

Data#: 247 File#: D:\EMI_TEST\Data\Y\YaLing.EMI

Date: 2004-06-29 Time: 18:59:35



Site : audix-aci NO.3 CHAMBER
Condition : 3m VERTICAL
Project No. : AOE-000676
Applicant : NINGBO YALING ELECTRICAL APPLIANCE
Applicant2 : CO., LTD.
EUT : REMOTE CONTROLLER
M/N : YLT-5C
S/N : F04060702
Ambient : 25.7C, 40%
Power Supply : battery 12V
Test Mode : 4
Test Engineer:

Page: 1

	Freq	Read Level	Level	Limit Line	Over Limit	Factor	Probe Factor	Cable Loss	Preamplifier Factor
	MHz	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB	dB
1	314.803	58.37	49.12	-----	-----	-9.25	15.76	2.56	27.57
2	315.016	78.44	69.22	-----	-----	-9.22	15.78	2.57	27.57
3	315.198	58.43	49.21	-----	-----	-9.22	15.78	2.57	27.57

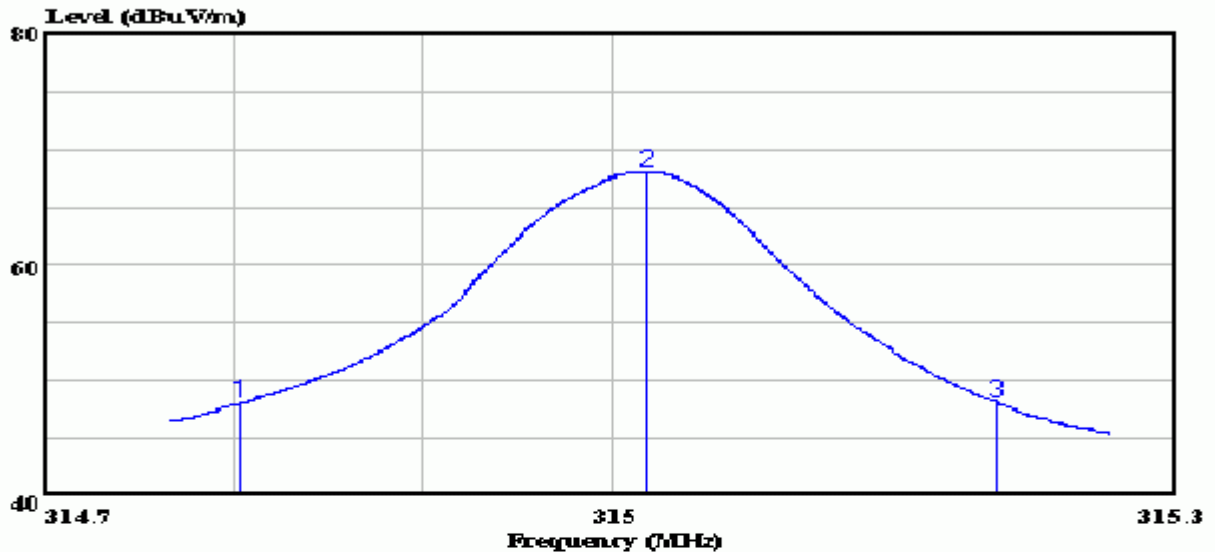
For Test Mode: 6



3F #34Bldg. No.680 GuiPing Rd.,
CaoHeJing Hi-Tech Park,
Shanghai, China
Tel:+86-21-64955500
Fax:+86-21-64955491
aciemc@audix.com

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Date: 2004-06-29 Time: 18:53:01



Site : audix-aci NO.3 CHAMBER
Condition : 3m VERTICAL
Project No. : AOE-000676
Applicant : NINGBO YALING ELECTRICAL APPLIANCE
Applicant2 : CO., LTD.
EUT : REMOTE CONTROLLER
M/N : YLT-5C
S/N : F04060702
Ambient : 25.7C, 40%
Power Supply : battery 12V
Test Mode : 6
Test Engineer:

Page: 1

	Freq	Read Level	Level	Limit Line	Over Limit	Factor	Probe Factor	Cable Loss
	MHz	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	314.803	57.29	48.04	-----	-----	-9.25	15.76	2.56
2	315.020	77.29	68.07	-----	-----	-9.22	15.78	2.57
3	315.205	57.38	48.16	-----	-----	-9.22	15.78	2.57

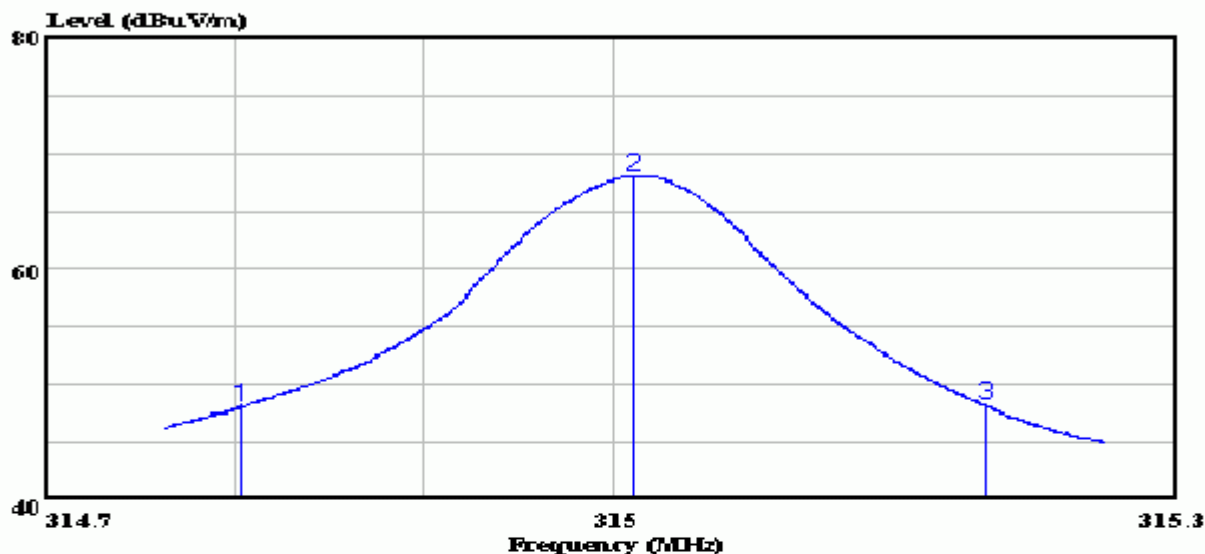
For Test Mode: 8



3F #34Bldg. No.680 GuiPing Rd.,
CaoHeJing Hi-Tech Park,
Shanghai, China
Tel:+86-21-64955500
Fax:+86-21-64955491
aciemc@audix.com

Data#: 250 File#: D:\EMI_TEST\Data\Y\YaLing.EMI

Date: 2004-06-29 Time: 19:04:13



Site : audix-aci NO.3 CHAMBER
Condition : 3m VERTICAL
Project No. : AOE-000676
Applicant : NINGBO YALING ELECTRICAL APPLIANCE
Applicant2 : CO., LTD.
EUT : REMOTE CONTROLLER
M/N : YLT-5C
S/N : F04060702
Ambient : 25.7C, 40%
Power Supply : battery 12V
Test Mode : 8
Test Engineer:

Page: 1

	Freq	Read Level	Level	Limit Line	Over Limit	Factor	Probe Factor	Cable Loss	Preamp Factor
	MHz	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB	dB
1	314.803	57.33	48.08	-----	-----	-9.25	15.76	2.56	27.57
2	315.012	77.29	68.07	-----	-----	-9.22	15.78	2.57	27.57
3	315.199	57.40	48.18	-----	-----	-9.22	15.78	2.57	27.57

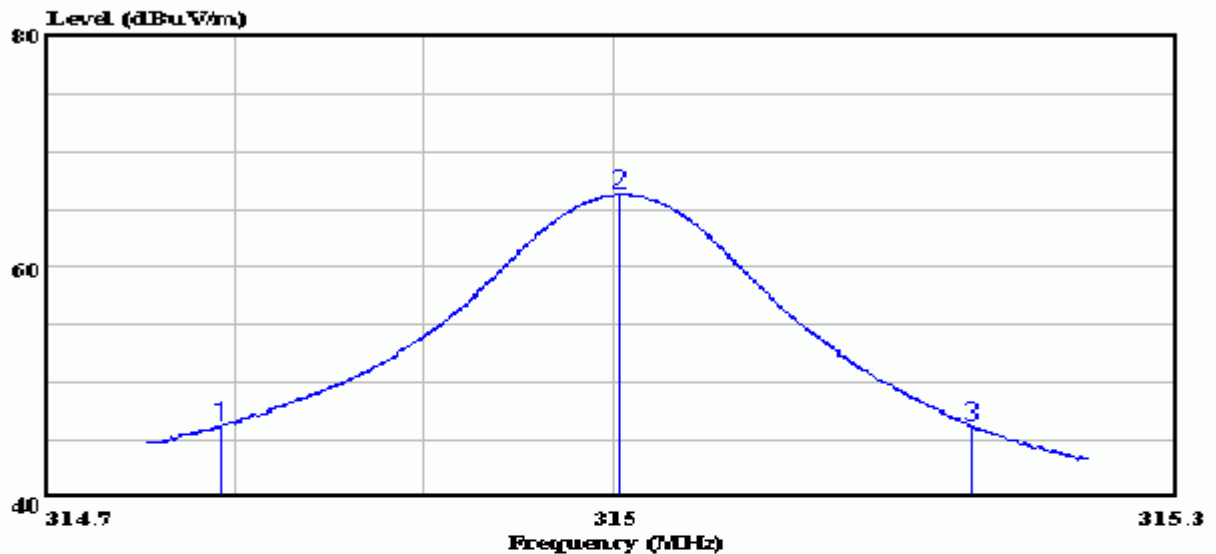
For Test Mode: ON



3F #34Bldg. No.680 GuiPing Rd.,
CaoHeJing Hi-Tech Park,
Shanghai, China
Tel:+86-21-64955500
Fax:+86-21-64955491
aciemc@audix.com

Data#: 251 File#: D:\EMI_TEST\Data\Y\YaLing.EMI

Date: 2004-06-29 Time: 19:05:05



Site : audix-aci NO.3 CHAMBER
Condition : 3m VERTICAL
Project No. : AOE-000676
Applicant : NINGBO YALING ELECTRICAL APPLIANCE
Applicant2 : CO., LTD.
EUT : REMOTE CONTROLLER
M/N : YLT-5C
S/N : F04060702
Ambient : 25.7C, 40%
Power Supply : battery 12V
Test Mode : ON
Test Engineer:

Page: 1

	Freq	Read Level	Level	Limit Line	Over Limit	Factor	Probe Factor	Cable Loss	Preamp Factor
	MHz	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB	dB
1	314.792	55.56	46.30	-----	-----	-9.26	15.75	2.56	27.57
2	315.003	75.55	66.33	-----	-----	-9.22	15.78	2.57	27.57
3	315.191	55.56	46.34	-----	-----	-9.22	15.78	2.57	27.57

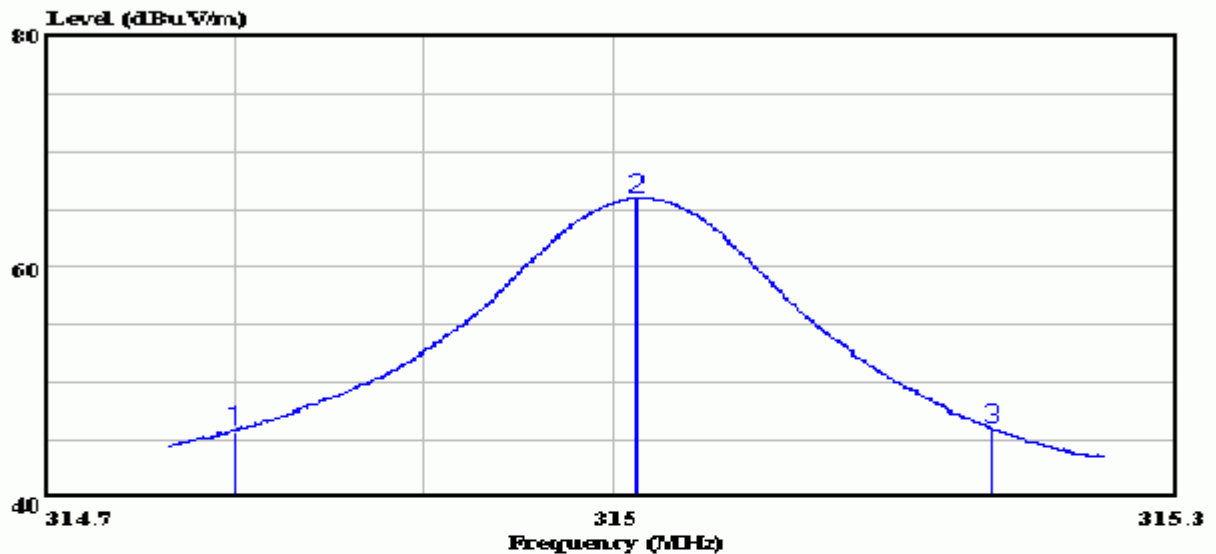
For Test Mode: OFF



3F #34Bldg. No.680 GuiPing Rd.,
CaoHeJing Hi-Tech Park,
Shanghai, China
Tel:+86-21-64955500
Fax:+86-21-64955491
aciemc@audix.com

Data#: 252 File#: D:\EMI_TEST\Data\Y\YaLing.EMI

Date: 2004-06-29 Time: 19:05:49



Site : audix-aci NO.3 CHAMBER
Condition : 3m VERTICAL
Project No. : AOE-000676
Applicant : NINGBO YALING ELECTRICAL APPLIANCE
Applicant2 : CO., LTD.
EUT : REMOTE CONTROLLER
M/N : YLT-5C
S/N : F04060702
Ambient : 25.7C, 40%
Power Supply : battery 12V
Test Mode : OFF
Test Engineer:

Page: 1

	Freq	Read Level	Level	Limit Line	Over Limit	Factor	Probe Factor	Cable Loss	Preamp Factor
	MHz	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB	dB
1	314.800	55.23	45.98	-----	-----	-9.25	15.76	2.56	27.57
2	315.013	75.24	66.02	-----	-----	-9.22	15.78	2.57	27.57
3	315.202	55.37	46.15	-----	-----	-9.22	15.78	2.57	27.57

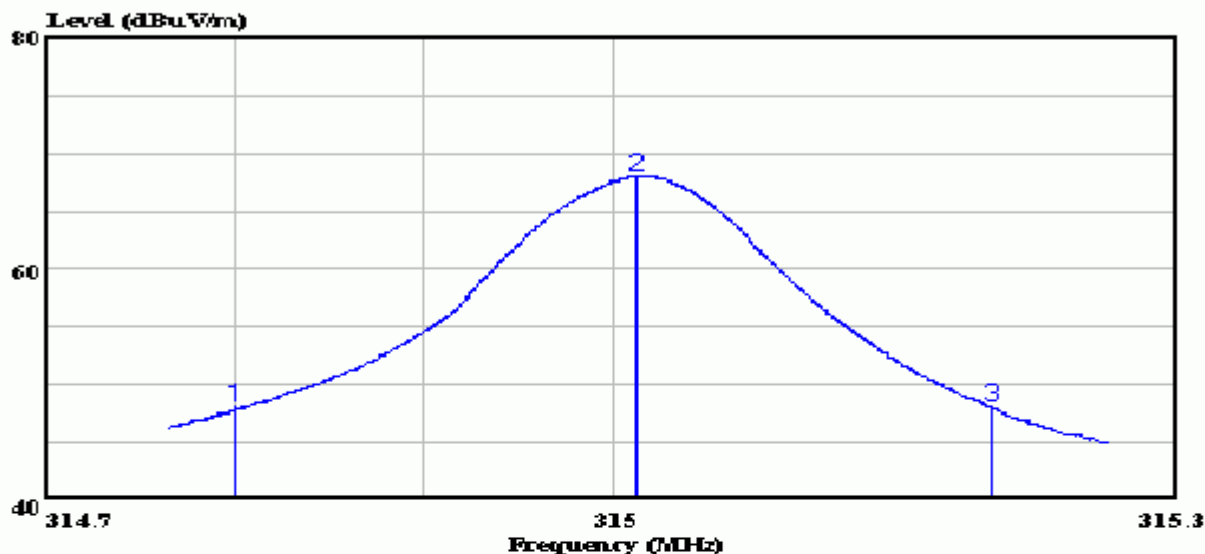
For Test Mode: photoelectric



3F #34Bldg. No.680 GuiPing Rd.,
CaoHeJing Hi-Tech Park,
Shanghai, China
Tel:+86-21-64955500
Fax:+86-21-64955491
aciemc@audix.com

Data#: 249 File#: D:\EMI_TEST\Data\Y\YaLing.EMI

Date: 2004-06-29 Time: 19:03:05



Site : audix-aci NO.3 CHAMBER
Condition : 3m VERTICAL
Project No. : AOE-000676
Applicant : NINGBO YALING ELECTRICAL APPLIANCE
Applicant2 : CO., LTD.
EUT : REMOTE CONTROLLER
M/N : YLT-5C
S/N : F04060702
Ambient : 25.7C, 40%
Power Supply : battery 12V
Test Mode : photoelectric
Test Engineer:

Page: 1

	Freq	Read Level	Level	Limit Line	Over Limit	Factor	Probe Factor	Cable Loss	Preamp Factor
	MHz	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB	dB
1	314.800	57.28	48.03	-----	-----	-9.25	15.76	2.56	27.57
2	315.014	77.22	68.00	-----	-----	-9.22	15.78	2.57	27.57
3	315.202	57.20	47.98	-----	-----	-9.22	15.78	2.57	27.57