



# FCC TEST REPORT

**REPORT NO.:** RF920808R01

**MODEL NO.:** LF-30S RX

**RECEIVED:** Aug. 08, 2003

**TESTED:** Aug. 20 ~ Sep. 24, 2003

**APPLICANT:** Jebsee Electronics Co., Ltd.

**ADDRESS:** 24-3, Sin-Lo Road, P.O.Box 57, Tainan, Taiwan

**ISSUED BY:** Advance Data Technology Corporation

**LAB LOCATION:** 47 14th Lin, Chiapau Tsun, Linko, Taipei,  
Taiwan, R.O.C.

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0528  
ILAC MRA



Lab Code: 200102-0

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## 1 CERTIFICATION

**PRODUCT :** 2.4GHz VIDEO/AUDIO/IR REMOTE  
CONTROL WIRELESS SENDER  
**MODEL NO.:** LF-30S RX  
**BRAND:** TERK  
**APPLICANT :** Jebsee Electronics Co., Ltd.  
**TEST ITEM:** ENGINEERING SAMPLE  
**STANDARDS :** 47 CFR Part 15, Subpart C (Section 15.231),  
ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility from Aug. 20 ~ Sep. 24, 2003. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

**PREPARED BY:** Landy Soong, **DATE:** Sep. 25, 2003  
Landy Soong  
**APPROVED BY:** Dr. Alan Lane / JVP, **DATE:** Sep. 25, 2003

## 2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: 47 CFR Part 15, Subpart C			
STANDARD PARAGRAPH	TEST TYPE	RESULT	REMARK
15.207	Conducted Emission Test	PASS	Minimum passing margin is -14.16dB at 0.213MHz
15.209	Radiated Emission Test	PASS	Minimum passing margin is -4.3dB at 33.89MHz
15.231	20dB Occupied Bandwidth Measurement	PASS	Meet the requirement of limit

**NOTE:**

1. The receiver part to communicate with the EUT has been verified to comply with FCC Part 15, Subpart B, Class B (DoC). The test report can be provided upon request.
2. The information of measurement uncertainty is available upon the customer's request.

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	2.4GHz VIDEO/AUDIO/IR REMOTE CONTROL WIRELESS SENDER
<b>MODEL NO.</b>	LF-30S RX
<b>BRAND</b>	TERK
<b>POWER SUPPLY</b>	15VDC from power adapter
<b>MODULATION TYPE</b>	FM
<b>CARRIER FREQUENCY OF EACH CHANNEL</b>	433.92MHz
<b>NUMBER OF CHANNEL</b>	1
<b>ANTENNA TYPE</b>	Detachable antenna
<b>DATA CABLE</b>	1.9m (Nonshielded)
<b>I/O PORTS</b>	AV

**NOTE:**

1. The EUT include Transmitter part and Receiver part. The model no.: LF-30S RX includes Tx of 433MHz application used for control signal transmitting and Rx of 2.4GHz application used for receive part of video sender and model no.: LF-30S TX is for transmitter which includes Rx of 433MHz application and Tx of 2.4GHz application. Receiver part of model LF-30S RX has been presented in DoC report.
2. For more detailed features description, please refer to the manufacturer's specifications or User's Manual.
3. The EUT was operated with following power adapter:

<b>Brand :</b>	HON-KWANG
<b>Model:</b>	D6-10-06
<b>Input:</b>	120V, 60Hz, 18W
<b>Output:</b>	15VDC, 300mA

### 3.2 DESCRIPTION OF TEST MODES

One channel is provided in the EUT :

Channel	Frequency
1	433.92 MHz

### 3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a 2.4GHz VIDEO/AUDIO/IR REMOTE CONTROL WIRELESS SENDER. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC 47 CFR Part 15, Subpart C. (15.231)**

**ANSI C63.4: 1992**

All tests have been performed and recorded as per the above standards.

### 3.4 DESCRIPTION OF SUPPORT UNITS

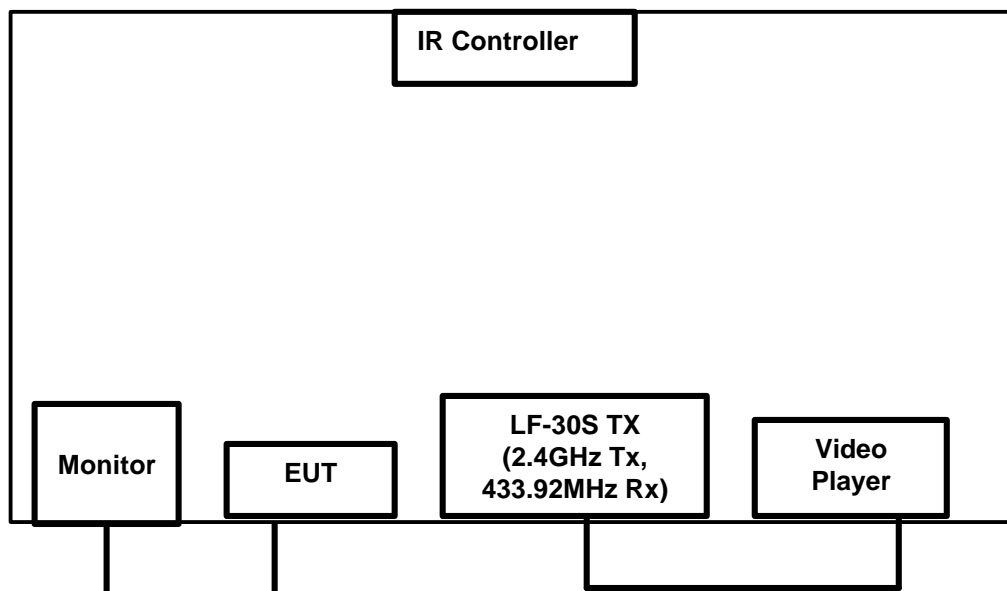
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	MONITOR	HACE	CC14A	23719011000399	VERIFICATION
2	VIDEO Player	JVC	HR-S3800U	135J8459	FCC DoC Approved
3	Transmitter	TERK	LF-30S TX	NA	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	NA
3	NA

**NOTE:** All power cords of the above support units are non shielded (1.8m).

#### CONFIGURATION OF SYSTEM UNDER TEST



## 4. TEST TYPES AND RESULTS

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
  2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
  3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

#### 4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS 30	838251/021	Jan. 20, 2004
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH3-Z5	100218	Dec. 18, 2003
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100219	Dec. 18, 2003
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100220	Dec. 18, 2003
ROHDE & SCHWARZ 4-wire ISN	ENY41	837032/016	Nov. 29 2003
ROHDE & SCHWARZ 2-wire ISN	ENY22	837497/016	Nov. 29 2003
Software	Cond-V2M3	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C10.01	May. 01, 2004
SUHNTER Terminator (For ROHDE & SCHWARZ LISN)	65BNC-5001	E1-010770	Mar. 24, 2004
SUHNTER Terminator (For ROHDE & SCHWARZ LISN)	65BNC-5001	E1-010773	Apr. 06, 2004

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
  2. “\*”: These equipment are used for conducted telecom port test only (if tested).
  3. The test was performed in ADT Shielded Room No. 10.
  4. The VCCI Site Registration No. is C-1312.



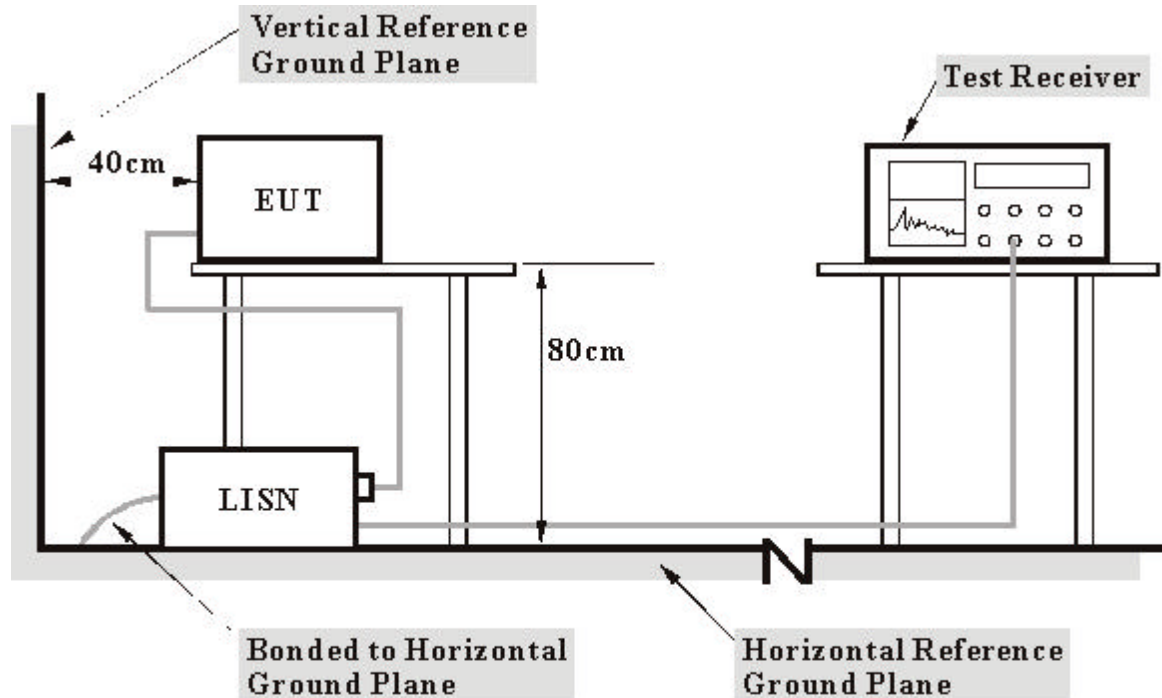
#### 4.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported.

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.5 TEST SETUP



- Note:** 1. Support units were connected to second LISN.  
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

#### 4.1.6 EUT OPERATING CONDITIONS

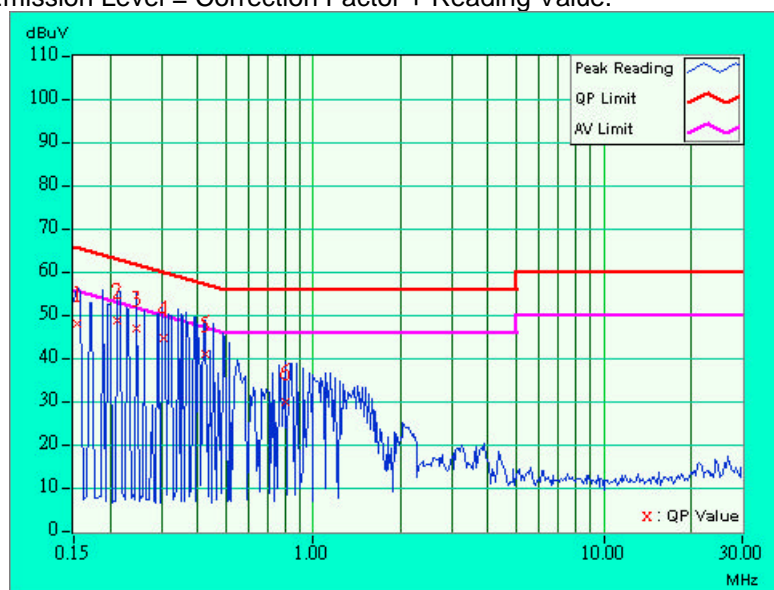
The EUT received the IR signal from IR controller and transmitting the signal at specific channel.

## 4.1.7 TEST RESULTS

<b>EUT</b>	2.4GHz VIDEO/AUDIO/IR REMOTE CONTROL WIRELESS SENDER	<b>MODEL</b>	LF-30S RX
<b>6dB BANDWIDTH</b>	9kHz		
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>PHASE</b>	Line (L)
<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 65%RH, 991hPa	<b>TESTED BY:</b> Steven Lu	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.154	0.06	47.98	-	48.04	-	65.79	55.79	-17.75	-
<b>2</b>	<b>0.213</b>	<b>0.06</b>	<b>48.89</b>	-	<b>48.95</b>	-	<b>63.11</b>	<b>53.11</b>	<b>-14.16</b>	-
3	0.248	0.06	46.85	-	46.91	-	61.84	51.84	-14.93	-
4	0.306	0.06	44.69	-	44.75	-	60.07	50.07	-15.32	-
5	0.423	0.06	41.16	-	41.22	-	57.38	47.38	-16.16	-
6	0.806	0.13	30.03	-	30.16	-	56.00	46.00	-25.84	-

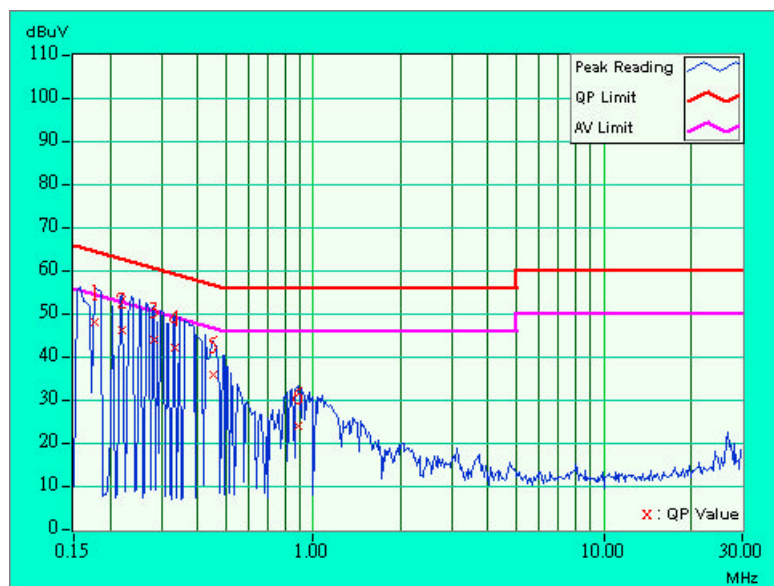
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.



<b>EUT</b>	2.4GHz VIDEO/AUDIO/IR REMOTE CONTROL WIRELESS SENDER	<b>MODEL</b>	LF-30S RX
<b>6dB BANDWIDTH</b>	9kHz		
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>PHASE</b>	Neutral (N)
<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 65%RH, 991hPa	<b>TESTED BY:</b> Steven Lu	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.05	47.88	-	47.93	-	64.61	54.61	-16.68	-
2	0.220	0.05	46.16	-	46.21	-	62.81	52.81	-16.60	-
3	0.283	0.05	43.89	-	43.94	-	60.73	50.73	-16.79	-
4	0.334	0.05	42.07	-	42.12	-	59.36	49.36	-17.24	-
5	0.451	0.06	35.73	-	35.79	-	56.86	46.86	-21.07	-
6	0.888	0.14	23.88	-	24.02	-	56.00	46.00	-31.98	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.



## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

According to 15.231 the field strength of emissions from intentional radiators operated under these frequencies bands shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental		Field Strength of Spurious	
	uV/meter	dBuV/meter	uV/meter	dBuV/meter
40.66 – 40.70	2250	67.04	225	48.04
70 – 130	1250	61.94	125	41.94
130 – 174	1250 to 3750	61.94 to 71.48	125 to 375	41.94 to 51.48
174 – 260	3750	71.48	75	37.50
260 – 470	3750 to 12500	71.48 to 81.94	375 to 1250	51.48 to 61.94
Above 470	12500	81.94	1250	61.94

**NOTE:**

- (1) Where F is the frequency in MHz, the formula for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, uV/m at 3 meters =  $56.81818(F) - 6136.3636$ ; for the band 260-470 MHz, uV/m at 3 meters =  $41.6667(F) - 7083.3333$ . The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.
- (2) The above field strength limits are specified at a distance of 3 meters. The tighter limits apply at the band edges.

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	$2400/F(\text{kHz})$	300
0.490-1.705	$24000/F(\text{kHz})$	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

## 4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
*HP Spectrum Analyzer	8590L	3520A00667	Aug. 28, 2004
*CHASE Preamplifier	CPA9231A/4	3215	Nov. 06, 2003
* HP Preamplifier	8449B	3008A01201	Dec. 01, 2003
* HP Preamplifier	8449B	3008A01292	Aug. 11, 2004
* ROHDE & SCHWARZ TEST RECEIVER	ESVS10	846285/012	Aug. 28, 2004
* ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Feb. 13, 2004
SCHAFFNER Tunable Dipole Antenna	VHBA 9123	459	Nov. 22, 2003
SCHWARZBECK Tunable Dipole Antenna	UHA 9105	977	
* CHASE BILOG Antenna	CBL6112B	2751	Mar. 21, 2004
* SCHWARZBECK Horn Antenna	BBHA9120-D1	D130	Jun. 30, 2004
* EMCO Horn Antenna	3115	9312-4192	Mar. 23 2004
* CHANCE Turn Table & Tower Controller	ACS-I	NA	NA
* Software	ADT_Radiate d_V5.14	NA	NA
* ANRITSU RF Switches	MP59B	M51167	Aug. 16, 2004
* TIMES RF cable	LMR-600	CABLE-ST6-01	Aug. 20, 2004

- NOTE:** 1. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.
2. “\*” = These equipment are used for the final measurement.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The test was performed in ADT Open Site No. 6.
5. The VCCI Site Registration No. is R-728.

#### 4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.

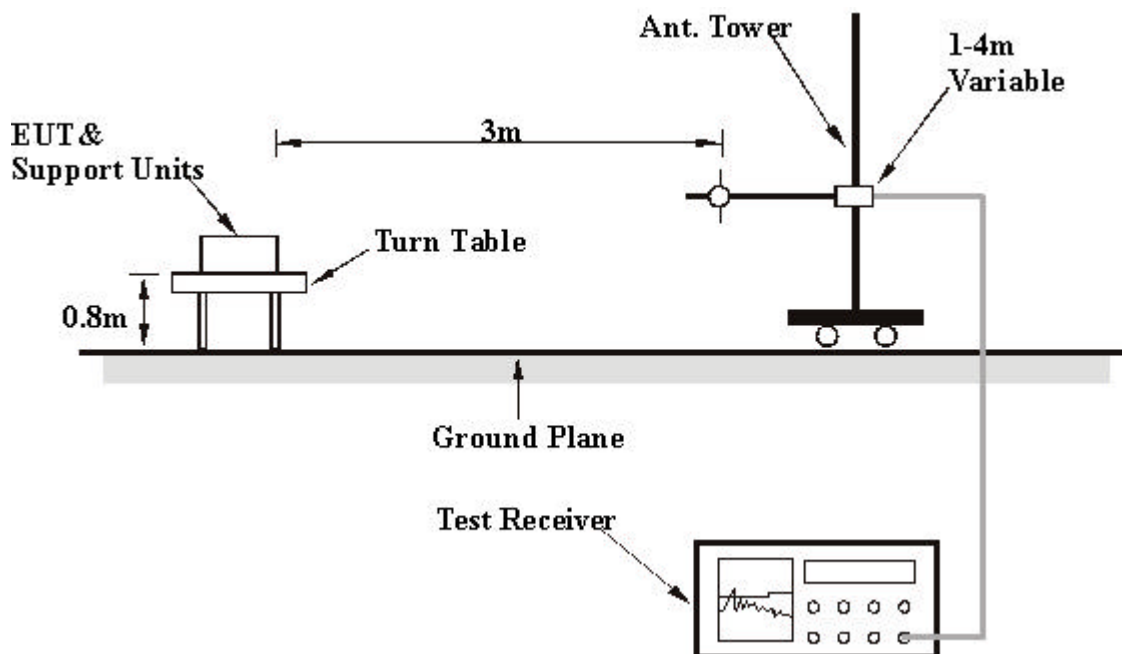
**NOTE:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 300 Hz for Average detection (AV) at frequency above 1GHz.

#### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.2.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

#### 4.2.6 EUT OPERATING CONDITIONS

Same as item 4.1.6

## 4.2.7 TEST RESULTS

<b>EUT</b>	2.4GHz VIDEO/AUDIO/IR REMOTE CONTROL WIRELESS SENDER	<b>MODEL</b>	LF-30S RX
<b>FREQUENCY RANGE</b>	Below 1000MHz		
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 70%RH, 991hPa	<b>TESTED BY:</b> Steven Lu	

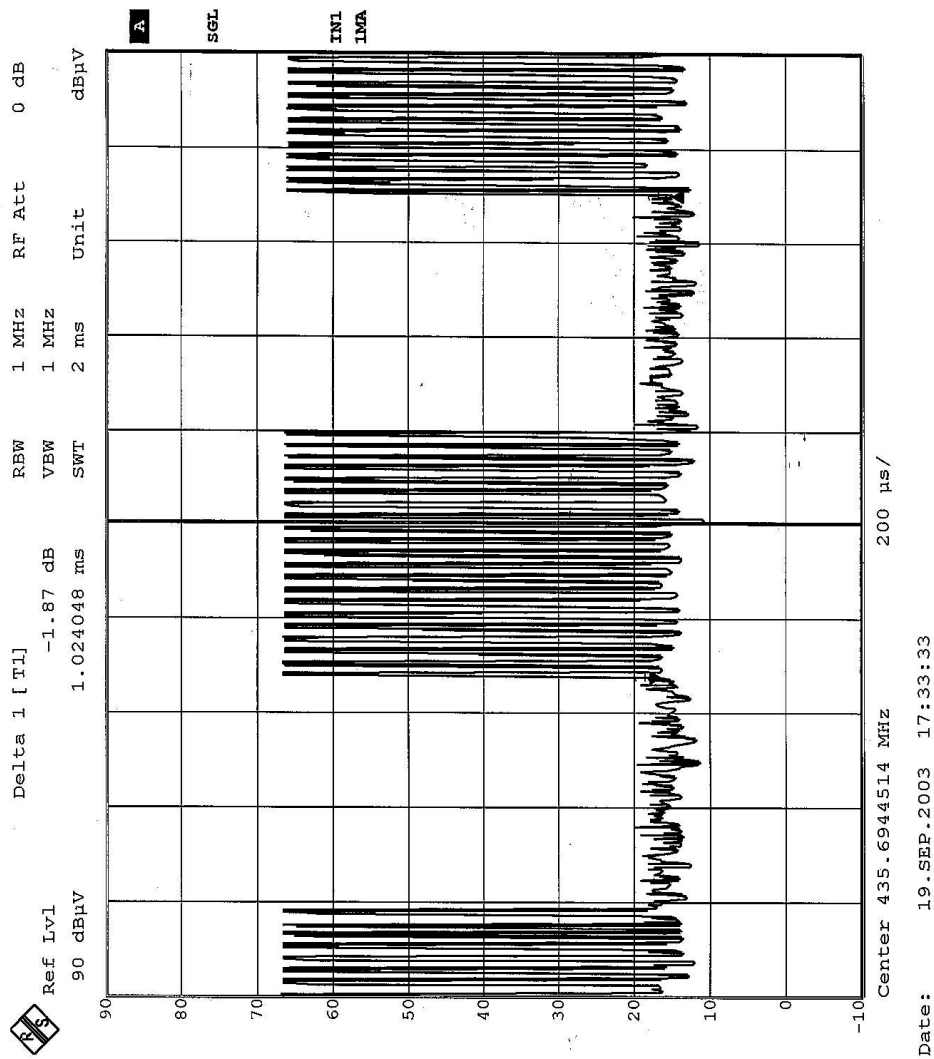
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	41.16	21.5 QP	40.00	-18.50	1.14 H	85	9.00	12.50
2	45.55	24.2 QP	40.00	-15.80	1.35 H	62	12.60	11.60
3	156.35	24.5 QP	43.50	-19.00	1.14 H	322	13.60	10.90
4	280.76	23.7 QP	46.00	-22.30	1.62 H	77	8.40	15.30
5	*435.67	82.1 PK	100.80	-18.70	1.14 H	51	63.40	18.70
6	*435.67	71.9 AV	80.80	-8.94	1.14 H	51	58.30	18.70
7	871.36	47.8 QP	62.10	-14.30	1.34 H	35	23.40	24.40
8	871.36	37.6 QP	51.86	-14.30	1.34 H	35	18.30	24.40

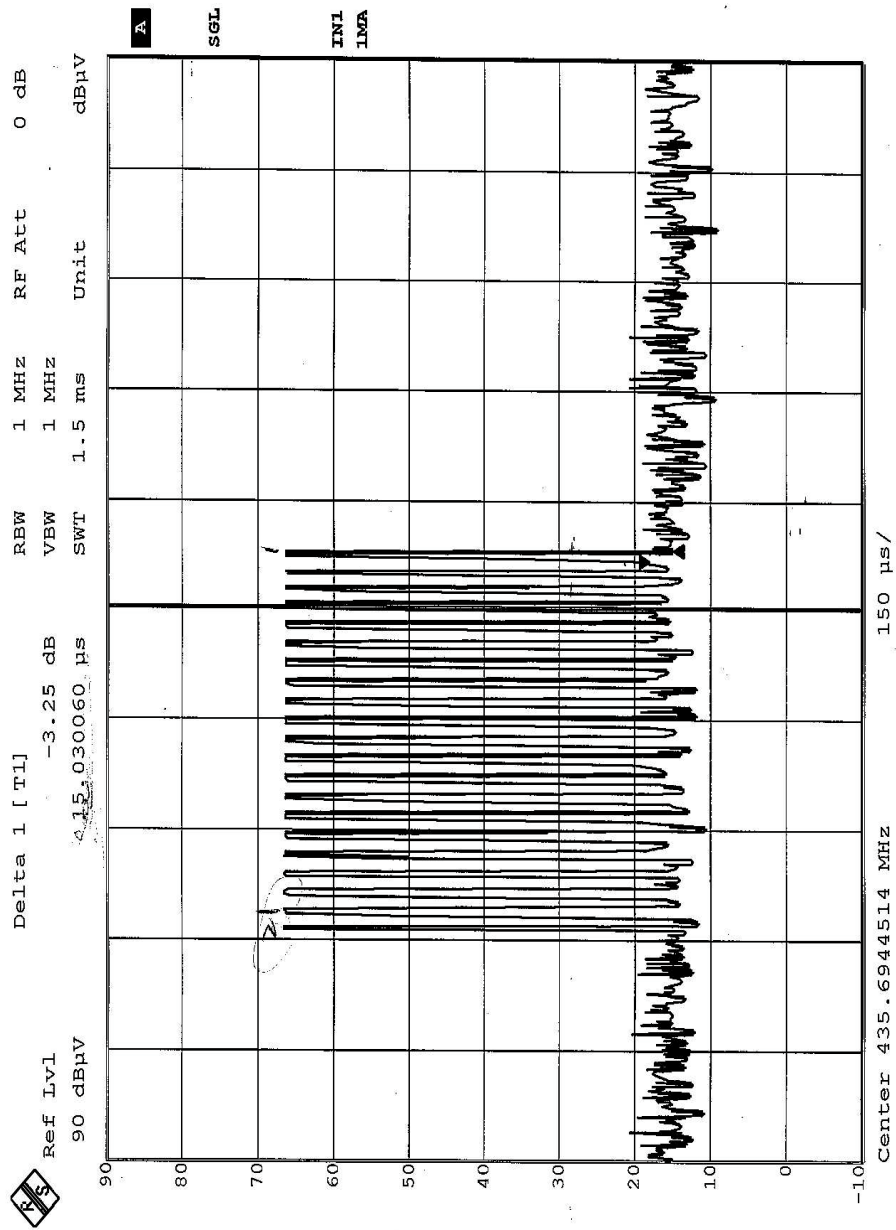
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	<b>33.89</b>	<b>35.7 QP</b>	<b>40.00</b>	<b>-4.30</b>	<b>1.12 V</b>	<b>24</b>	<b>19.00</b>	<b>16.70</b>
2	43.61	28.1 QP	40.00	-11.90	1.34 V	36	16.00	12.10
3	86.37	22.7 QP	40.00	-17.30	1.36 V	95	13.70	9.00
4	127.19	24.0 QP	43.50	-19.50	2.14 V	24	11.30	12.70
5	146.63	25.0 QP	43.50	-18.50	1.32 V	33	13.40	11.60
6	160.24	25.5 QP	43.50	-18.00	1.17 V	84	14.80	10.70
7	*435.67	79.5 PK	100.80	-21.30	1.31 V	32	60.80	18.70
8	*435.67	69.3 AV	80.80	-11.54	1.31 V	32	55.70	18.70
9	871.39	50.2 QP	59.50	-9.30	1.52 V	74	25.80	24.40
10	871.39	40.0 QP	49.26	-9.30	1.52 V	74	20.70	24.40

- NOTE:** 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)  
2. Correction Factor(dB) = Antenna Factor (dB) + Cable Factor (dB)  
3. The other emission levels were very low against the limit.  
4. Margin value = Emission level – Limit value.  
5. “\*” = Fundamental frequency  
6. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle)  
Where the duty factor is calculated from following formula:

$$20\log(\text{Duty cycle}) = 20\log \frac{0.015 \times 21}{1.024\text{ms}} = -10.24\text{dB}$$

please see page 18,19 for plotted duty





Date: 19.SEP.2003 17:34:50

### 4.3 OCCUPIED BANDWIDTH MEASUREMENT

#### 4.3.1 LIMITS OF BAND EDGES MEASUREMENT

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for device operating above 70 MHz and below 900 MHz.

Fundamental Frequency (MHz)	Limit of 20 dB Bandwidth(kHz)
433.92	1084.8

#### 4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2004

**NOTE:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

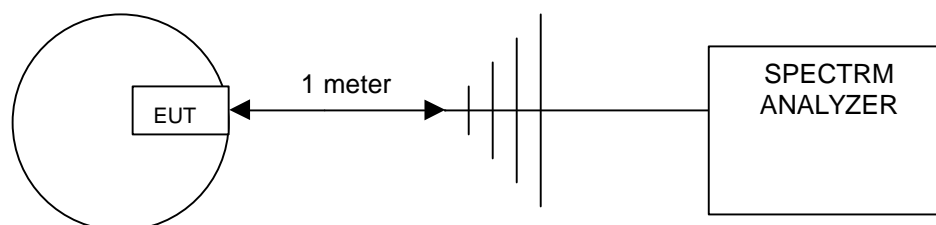
#### 4.3.3 TEST PROCEDURES

- 1 The EUT was placed on the turn table .
- 1 The signal was coupled to the spectrum analyzer through an antenna.
- 2 Set the resolution bandwidth to 100kHz and video bandwidth to 100kHz then select Peak function to scan the channel frequency.
- 3 The 20dB bandwidth was measured and recorded.

#### 4.3.4 DEVIATION FROM TEST STANDARD

No deviation

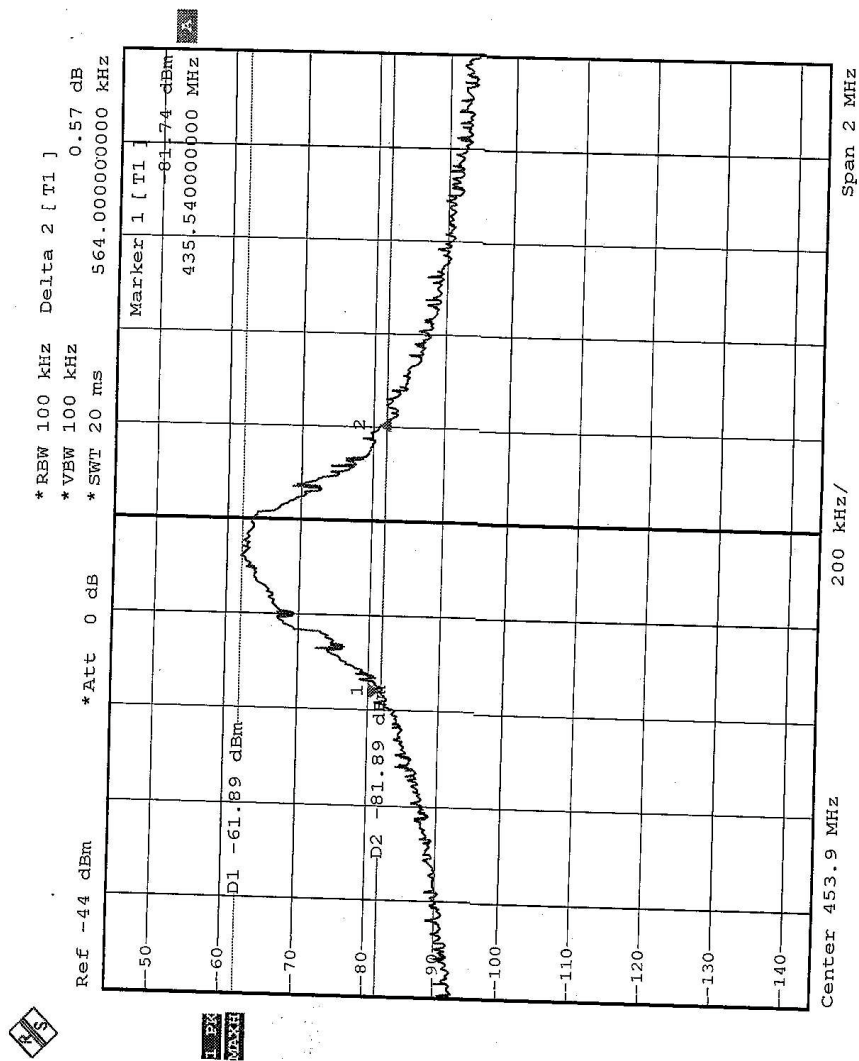
#### 4.3.5 TEST SETUP



#### 4.3.6 TEST RESULTS

Frequency (MHz)	20 dB bandwidth (kHz)	Maximum limit (kHz)	PASS/FAIL
433.92	564.00	1084.80	PASS

The plot of test result is attached as below.



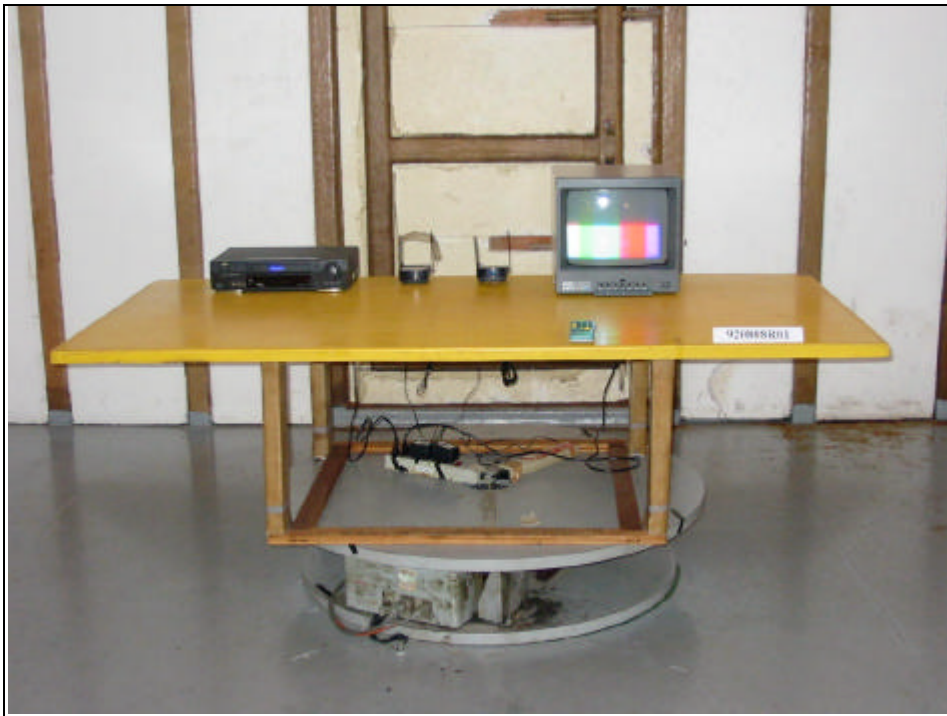
Date: 25.SEP.2003 15:58:19

## 5. PHOTOGRAPHS OF THE TEST CONFIGURATION

### CONDUCTED EMISSION TEST



## RADIATED EMISSION TEST





## 6. INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

<b>USA</b>	FCC, NVLAP
<b>Germany</b>	TUV Rheinland
<b>Japan</b>	VCCI
<b>New Zealand</b>	MoC
<b>Norway</b>	NEMKO
<b>R.O.C.</b>	BSMI, DGT, CNLA

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

[www.adt.com.tw/index.5/phtml](http://www.adt.com.tw/index.5/phtml).

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The address and road map of all our labs can be found in our web site also.