

# FCC TEST REPORT

**REPORT NO.:** RF940222L02

**MODEL NO.:** SKY-6601

**RECEIVED:** Feb. 22, 2005

**TESTED:** Feb. 23, 2005

**ISSUED** Apr. 14, 2005

**APPLICANT:** Skytech II, Inc.

**ADDRESS:** 9230 Conservation Way, Fort Wayne, Indiana  
46809, U.S.A.

**ISSUED BY:** Advance Data Technology Corporation

**LAB ADDRESS:** No. 47, 14<sup>th</sup> Ling, Chia Pau Tsuen, Lin Kou Hsiang  
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**TEST LOCATION:** No. 19, Hwa Ya 2<sup>nd</sup> Rd., Wen Hwa Tsuen, Kwei  
Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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0528  
ILAC MRA



No. 2177-01

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## 1. CERTIFICATION

**PRODUCT:** Remote control transmitter  
**MODEL NO.:** SKY-6601  
**BRAND:** SKYTECH  
**APPLICANT:** Skytech II, Inc.  
**TESTED:** Feb. 23, 2005  
**TEST SAMPLE:** R&D SAMPLE  
**STANDARDS:** FCC Part 15, Subpart C (Section 15.231),  
ANSI C63.4-2003

The above equipment have been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**PREPARED BY :** Andrea Hsia , **DATE:** Apr. 14, 2005  
(Andrea Hsia)

**TECHNICAL**  
**ACCEPTANCE :** Gary Chang , **DATE:** Apr. 14, 2005  
Responsible for RF (Gary Chang)

**APPROVED BY :** Cody Chang , **DATE:** Apr. 14, 2005  
(Cody Chang, Deputy Manager)

## 2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

<b>APPLIED STANDARD: FCC Part 15, Subpart C</b>			
<b>STANDARD PARAGRAPH</b>	<b>TEST TYPE</b>	<b>RESULT</b>	<b>REMARK</b>
15.207	Conducted Emission Test	NA	3Vdc from battery
15.231(a)	De-activation	PASS	Meet the requirement of limit
15.209 15.231(b)	Radiated Emission Test	PASS	Minimum passing margin is -5.09dB at 433.94MHz
15.231(c)	20dB Occupied Bandwidth Measurement	PASS	Meet the requirement of limit

### 2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4:

<b>Measurement</b>	<b>Frequency</b>	<b>Uncertainty</b>
Conducted emissions	9kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.63 dB
	200MHz ~1000MHz	3.65 dB
	1GHz ~ 18GHz	2.20 dB
	18GHz ~ 40GHz	1.88 dB

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	Remote control transmitter
<b>MODEL NO.</b>	SKY-6601
<b>POWER SUPPLY</b>	3Vdc from battery
<b>MODULATION TYPE</b>	ASK
<b>CARRIER FREQUENCY OF EACH CHANNEL</b>	433.92MHz
<b>NUMBER OF CHANNEL</b>	1
<b>ANTENNA TYPE</b>	Printed antenna
<b>DATA CABLE</b>	NA
<b>I/O PORTS</b>	NA

**NOTE:**

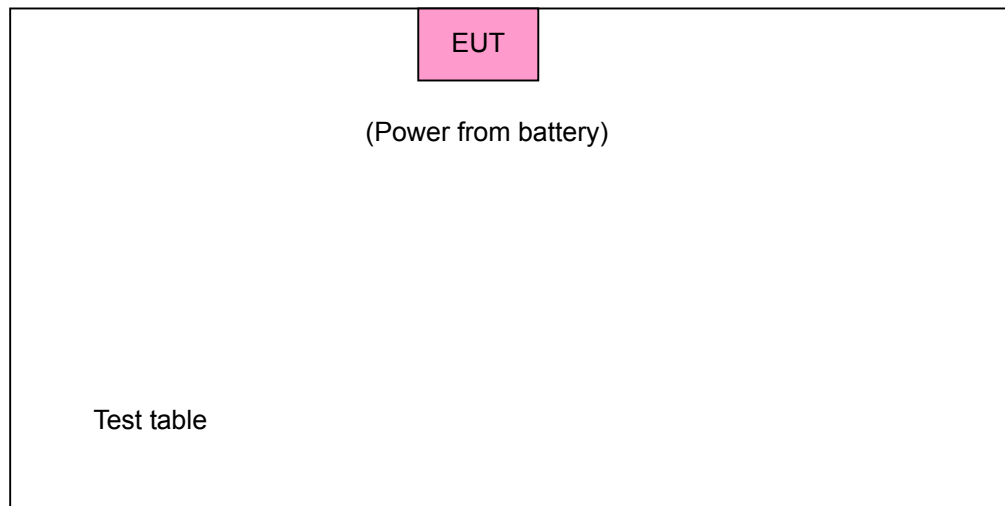
1. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

### 3.2 DESCRIPTION OF TEST MODES

One channel is provided to this EUT:

Channel	Frequency
1	433.92 MHz

#### 3.2.1 CONFIGURATION OF SYSTEM UNDER TEST





### 3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL:

EUT configure mode	Applicable to				Description
	PLC	RE<1G	RE≥1G	APM	
-	-	X	X	X	NA

Where PLC: Power Line Conducted Emission

RE<1G RE: Radiated Emission below 1GHz

RE≥1G: Radiated Emission above 1GHz

APM: Antenna Port Measurement

#### **Radiated Emission Test (Below 1 GHz):**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, and X.Y.Z. axis.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Available Channel	Tested Channel	Modulation Type	Axis
1	1	ASK	X

#### **Radiated Emission Test (Above 1 GHz):**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, and X.Y.Z. axis.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Available Channel	Tested Channel	Modulation Type	Axis
1	1	ASK	X

#### **Antenna Port Conducted Measurement:**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, and X.Y.Z. axis.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Available Channel	Tested Channel	Modulation Type	Axis
1	1	ASK	X



### 3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a Remote control transmitter. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

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

**ANSI C63.4- 2003**

All test items 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	NA	NA	NA	NA	NA

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

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



## 4. TEST TYPES AND RESULTS

### 4.1 CONDUCTED EMISSION MEASUREMENT

NA

### 4.2 DEACTIVATION TIME

#### 4.2.1 LIMITS OF DEACTIVATION TIME MEASUREMENT

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

#### 4.2.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2005

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

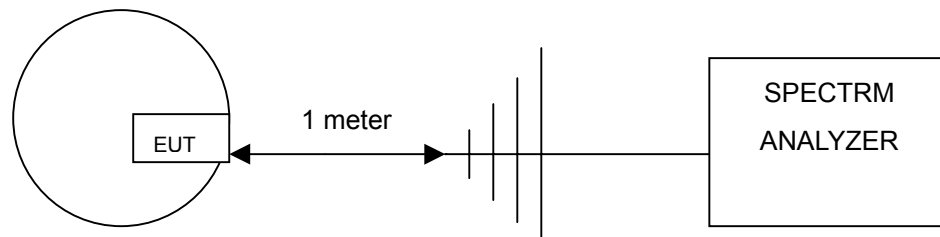
#### 4.2.3 TEST PROCEDURES

- 1 The EUT was placed on the turning table.
- 2 The signal was coupled to the spectrum analyzer through an antenna.
- 3 Set the resolution bandwidth to 1kHz and video bandwidth to 100kHz. The spectrum analyser was turned to the centre frequency of the transmitter's and the analyser's marker function was used to determine the duration of transmission.
- 4 The transmission duration was measured and recorded.

#### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.2.5 TEST SETUP

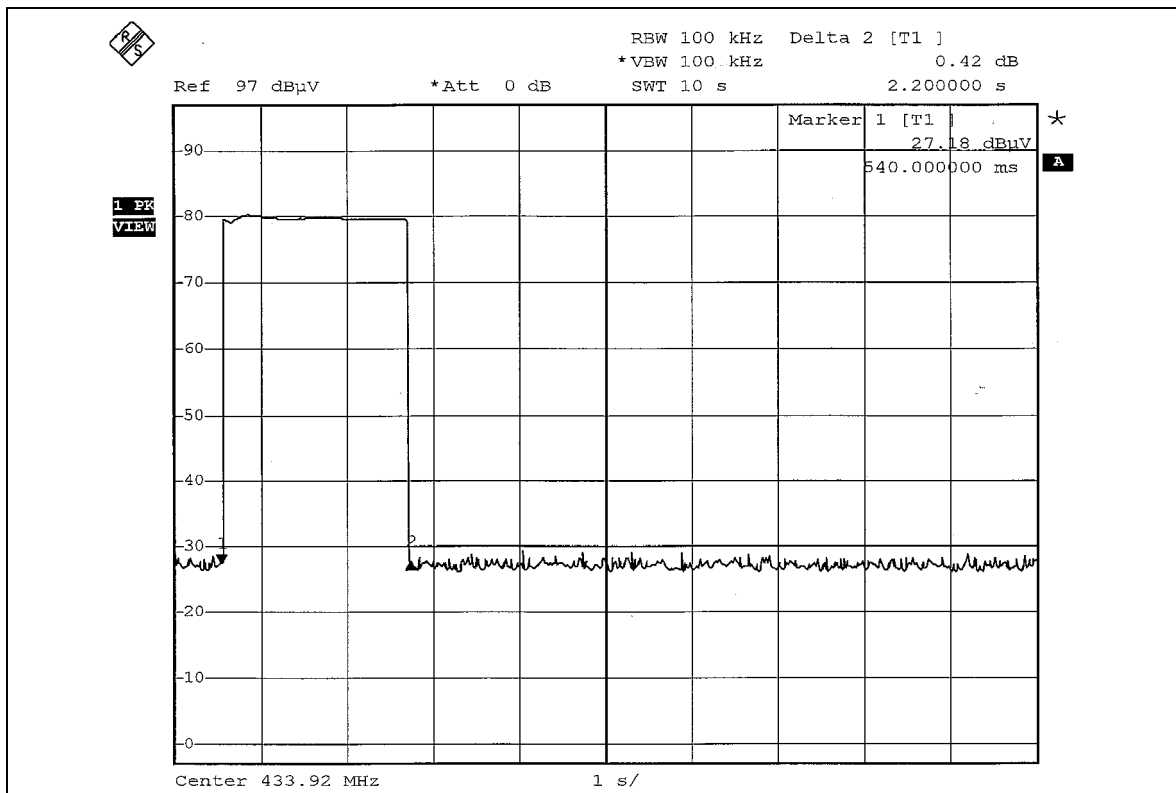


#### 4.2.6 TEST RESULTS

Push button	Frequency (MHz)	Transmission duration (sec)	Maximum limit (sec)	PASS/FAIL
1	433.92	2.20	5	PASS

The plot of test result is attached as below.

## Manual Push – Button 1



### 4.3 RADIATED EMISSION MEASUREMENT

#### 4.3.1 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,  $\mu\text{V/m}$  at 3 meters =  $56.81818(F) - 6136.3636$ ; for the band 260-470 MHz,  $\mu\text{V/m}$  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 3meters. 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(kHz)	300
0.490-1.705	24000/F(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.

## 4.3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESI7	838496/016	Jan. 07, 2006
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Nov. 29, 2005
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Feb. 03, 2006
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-404	Jan. 05, 2006
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA 9170242	Jan. 23, 2006
Preamplifier Agilent	8447D	2944A10631	Nov. 17, 2005
Preamplifier Agilent	8449B	3008A01960	Nov. 14, 2005
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	219272/4	Mar. 04, 2005
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	219275/4	Mar. 04, 2005
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA
Antenna Tower Controller inn-co GmbH	CO2000	019303	NA
Turn Table ADT.	TT100.	TT93021704	NA
Turn Table Controller ADT.	SC100.	SC93021704	NA

- 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. The test was performed in HwaYa Chamber 3.
  3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
  4. The IC Site Registration No. is IC4924-4.

#### 4.3.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. 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.

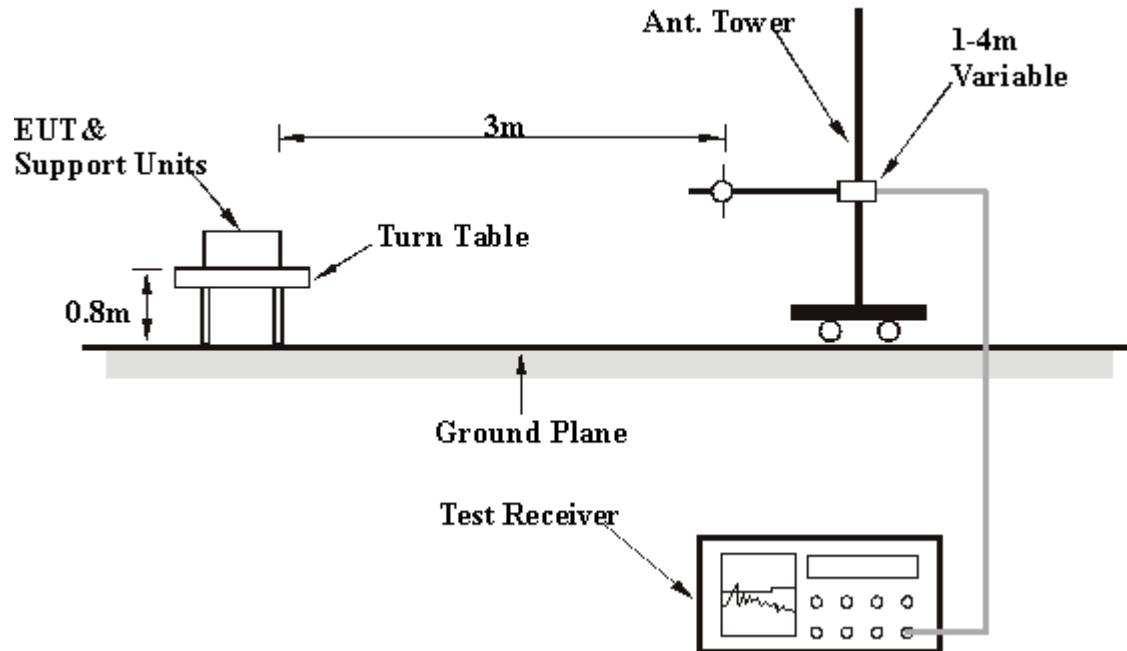
**NOTE:**

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

#### 4.3.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.3.5 TEST SETUP



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

#### 4.3.6 EUT OPERATING CONDITIONS

Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.



## 4.3.7 TEST RESULTS

## Below 1GHz Worst-Case Data

<b>EUT</b>	Remote control transmitter	<b>MODEL</b>	SKY-6601
<b>CHANNEL</b>	Channel 1	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>MODULATION TYPE</b>	ASK	<b>INPUT POWER (SYSTEM)</b>	3Vdc
<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 61%RH, 991hPa	<b>DETECTOR FUNCTION</b>	Quasi-Peak / Peak / Average
<b>TESTED BY</b>	Long Chen		

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	45.55	15.68 QP	40.00	-24.32	1.50 H	127	0.15	15.53
2	154.41	15.30 QP	43.50	-28.20	1.50 H	301	0.21	15.10
3	410.00	25.99 QP	46.00	-20.01	1.00 H	88	8.47	17.52
4	<b>*433.94</b>	<b>95.74 PK</b>	<b>100.83</b>	<b>-5.09</b>	<b>2.33 H</b>	<b>77</b>	<b>77.55</b>	<b>18.19</b>
4	*433.94	75.47 AV	80.83	-5.36	2.33 H	77	57.28	18.19
5	743.41	24.43 QP	46.00	-21.57	2.00 H	88	0.32	24.11
6	825.05	24.56 QP	46.00	-21.44	1.50 H	184	-0.23	24.79
7	867.87	50.19 PK	80.83	-30.64	1.61 H	54	24.86	25.33
7	867.87	29.92 AV	60.83	-30.91	1.61 H	54	4.59	25.33
8	912.53	25.72 QP	46.00	-20.28	1.50 H	139	-0.33	26.05

- 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:

$$20\log(\text{Duty cycle}) = 20\log \frac{(12 \times 2 \times 256) + 256\mu\text{s}}{66048\mu\text{s}} = -20.27\text{dB}$$

please see page 20 to 22 for plotted duty

<b>EUT</b>	Remote control transmitter	<b>MODEL</b>	SKY-6601
<b>CHANNEL</b>	Channel 1	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>MODULATION TYPE</b>	ASK	<b>INPUT POWER (SYSTEM)</b>	3Vdc
<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 61%RH, 991hPa	<b>DETECTOR FUNCTION</b>	Quasi-Peak / Peak / Average
<b>TESTED BY</b>	Long Chen		

<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>								
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	51.38	15.27 QP	40.00	-24.73	1.50 V	184	0.40	14.87
2	173.85	14.69 QP	43.50	-28.81	1.00 V	49	0.75	13.94
3	410.05	19.09 QP	46.00	-26.91	1.00 V	346	1.57	17.52
4	*433.94	87.07 PK	100.83	-13.76	2.17 V	165	68.88	18.19
4	*433.94	66.80 AV	80.83	-14.03	2.17 V	165	48.61	18.19
5	795.89	23.81 QP	46.00	-22.19	1.00 V	70	-0.75	24.55
6	830.88	24.74 QP	46.00	-21.26	1.00 V	52	-0.10	24.84
7	867.87	42.39 PK	80.83	-38.44	1.75 V	341	17.07	25.33
7	867.87	22.12 AV	60.83	-38.71	1.75 V	341	-3.21	25.33
8	918.36	25.22 QP	46.00	-20.78	1.00 V	223	-0.89	26.12

- 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:

$$20\log(\text{Duty cycle}) = 20\log \frac{(12 * 2 * 256) + 256\mu\text{s}}{66048\mu\text{s}} = -20.27\text{dB}$$

please see page 20 to 22 for plotted duty

**ASK modulation**

<b>EUT</b>	Remote control transmitter	<b>MODEL</b>	SKY-6601
<b>CHANNEL</b>	Channel 1	<b>FREQUENCY RANGE</b>	1-5GHz
<b>MODULATION TYPE</b>	ASK	<b>INPUT POWER (SYSTEM)</b>	3Vdc
<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 61%RH, 991hPa	<b>DETECTOR FUNCTION</b>	Peak (PK), Average (AV)
<b>TESTED BY</b>	Long Chen		

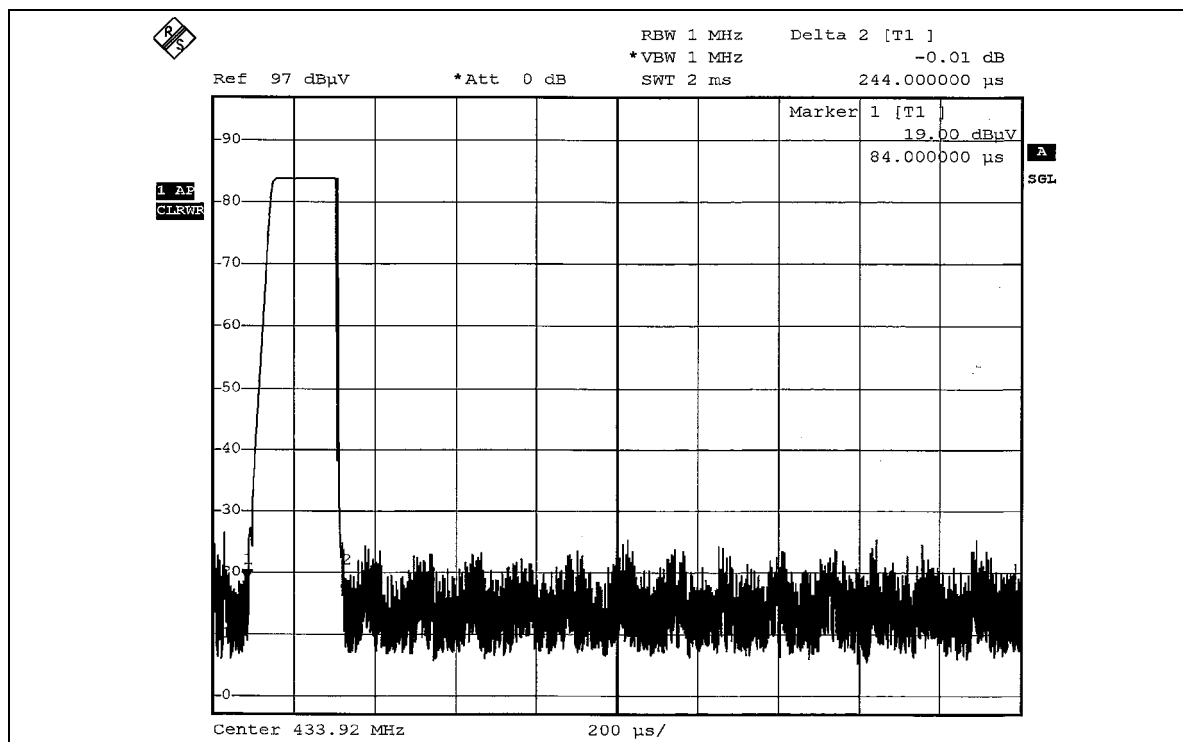
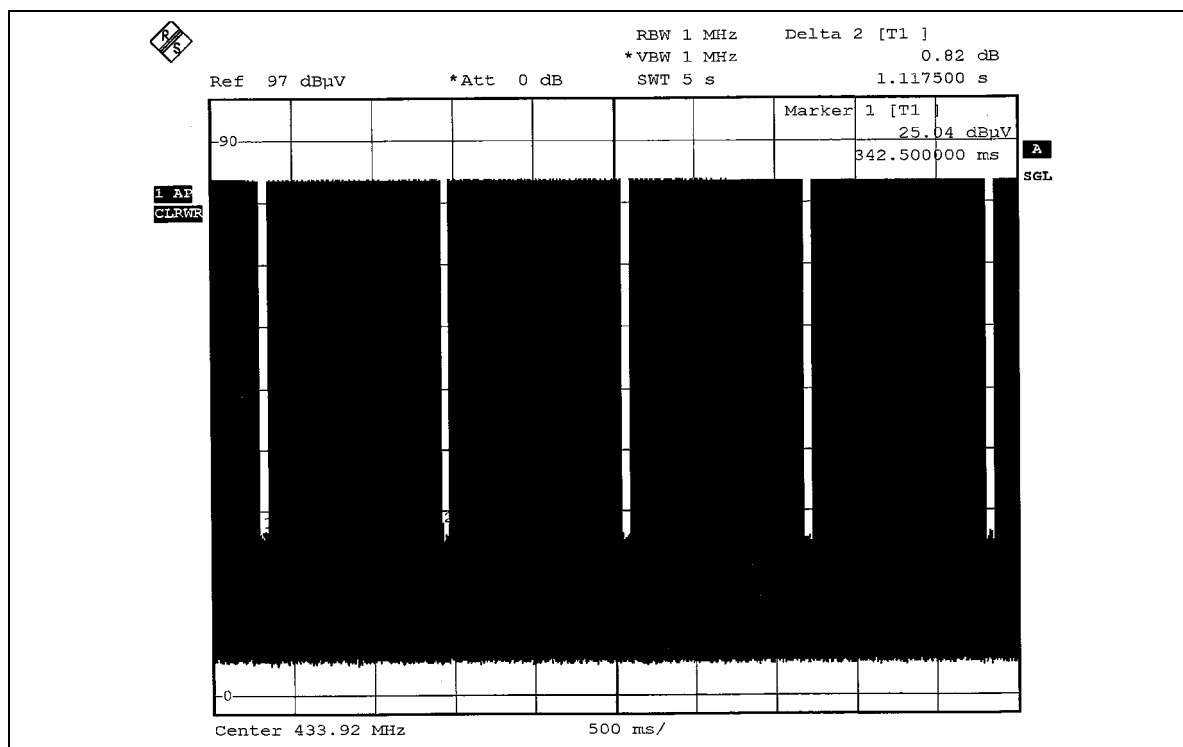
**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

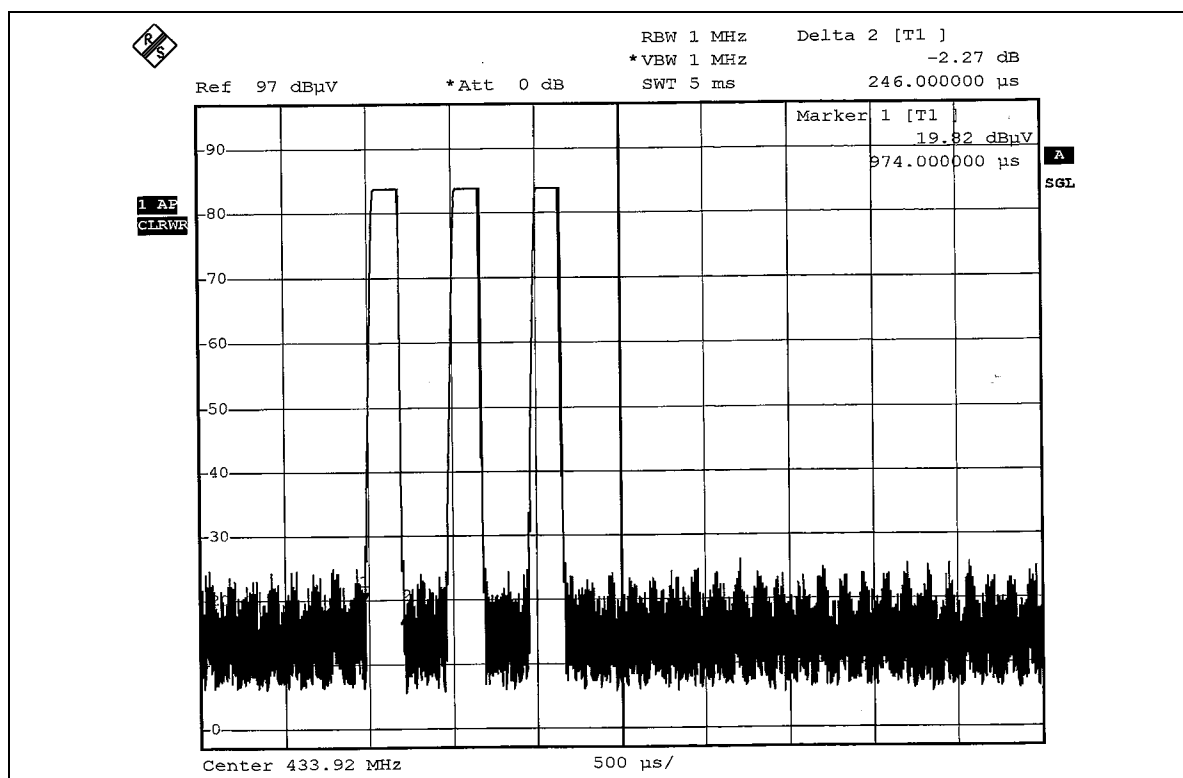
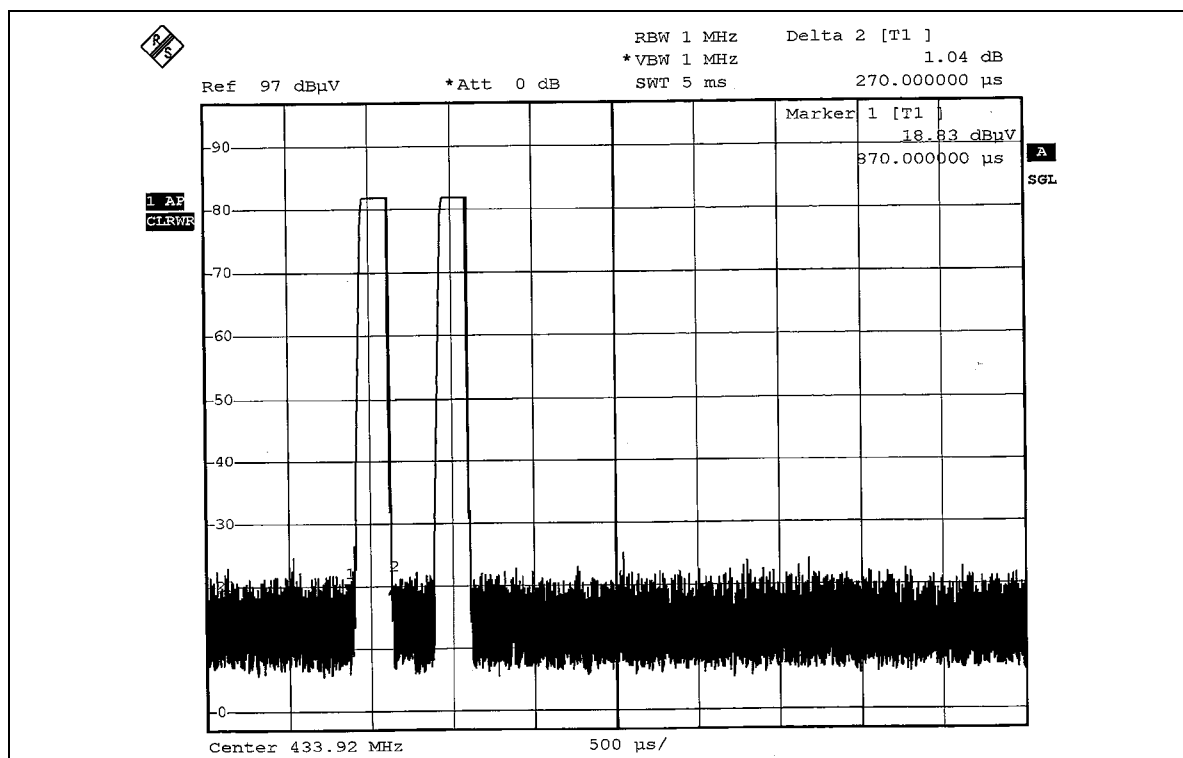
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1301.75	55.50 PK	74.00	-18.50	1.08 H	224	26.83	28.67
1	1301.75	35.23 AV	54.00	-18.77	1.08 H	224	6.56	28.67
2	1735.63	44.69 PK	74.00	-29.31	1.10 H	235	14.60	30.09
3	2169.76	47.47 PK	74.00	-26.53	1.54 H	71	15.90	31.57
4	2603.58	58.21 PK	74.00	-36.06	1.22 H	114	24.97	33.24
4	2603.58	37.94 AV	54.00	-16.06	1.22 H	114	4.70	33.24
5	3037.62	52.58 PK	74.00	-21.42	1.00 H	107	18.34	34.24
6	3471.44	49.69 PK	74.00	-24.31	1.30 H	210	14.83	34.87

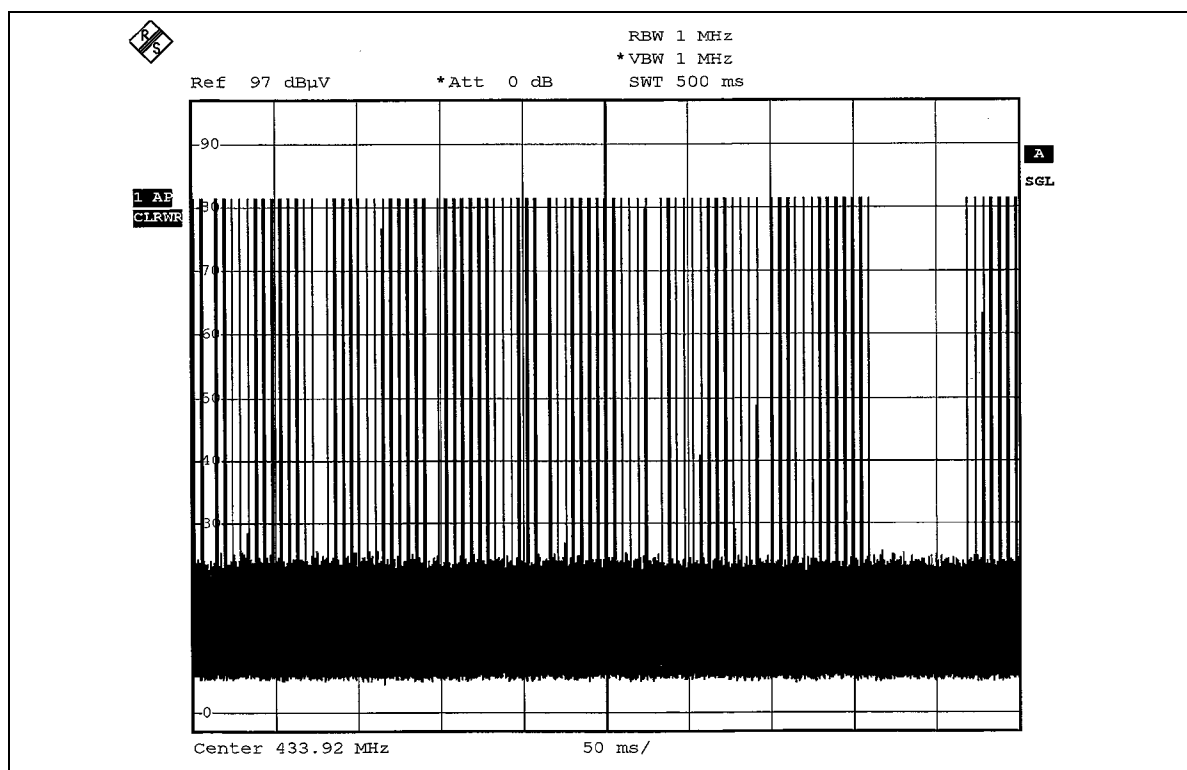
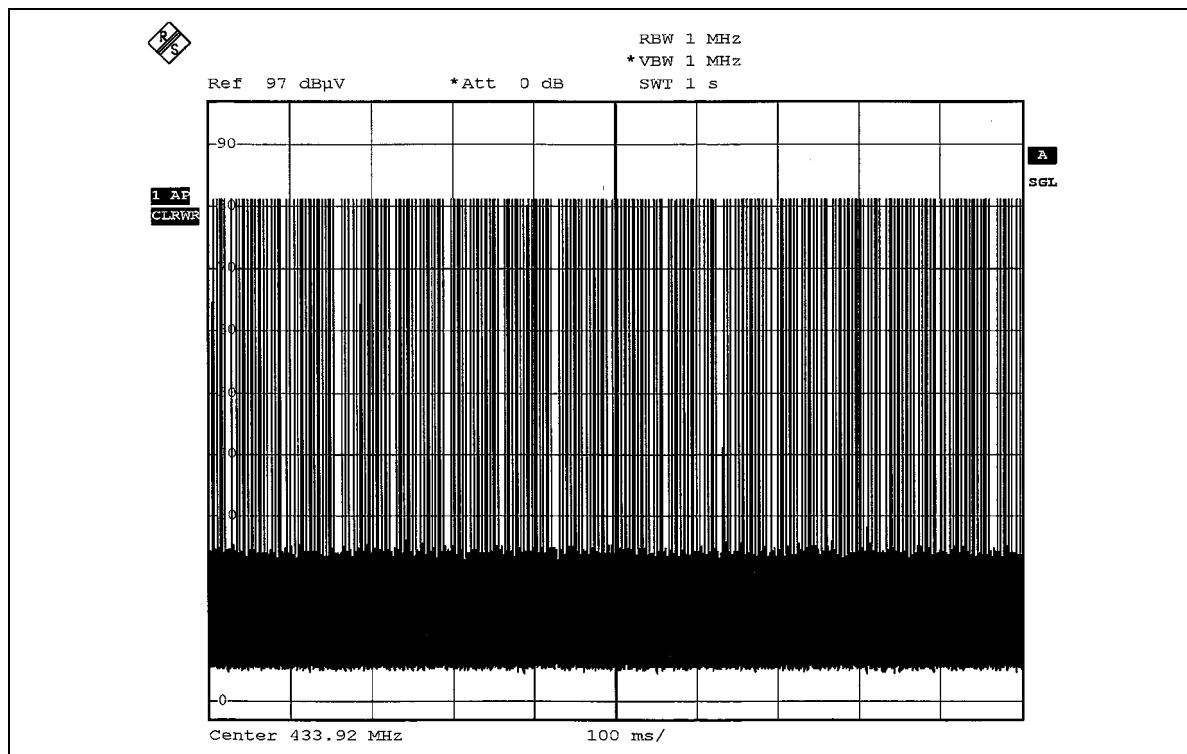
**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

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	1301.76	49.66 PK	74.00	-24.34	2.38 V	341	20.99	28.67
2	1735.81	41.91 PK	74.00	-32.09	1.20 V	34	11.81	30.09
3	2169.48	43.47 PK	74.00	-30.53	1.58 V	182	11.91	31.57
4	2603.65	51.92 PK	74.00	-22.08	1.54 V	138	18.68	33.24
5	3037.60	45.81 PK	74.00	-28.19	1.42 V	34	11.57	34.24
6	3471.44	47.96 PK	74.00	-26.04	1.77 V	190	13.09	34.87

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.







#### 4.4 20dB OCCUPIED BANDWIDTH MEASUREMENT

##### 4.4.1 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

##### 4.4.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2005

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

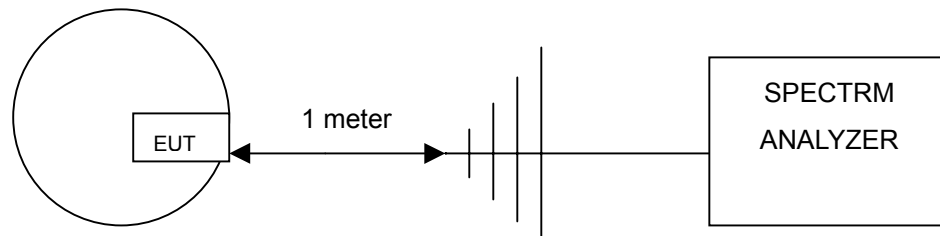
##### 4.4.3 TEST PROCEDURES

1. The EUT was placed on the turning table.
2. The signal was coupled to the spectrum analyzer through an antenna.
3. Set the resolution bandwidth to 10kHz and video bandwidth to 30kHz then select Peak function to scan the channel frequency.
4. The 20dB bandwidth was measured and recorded.

##### 4.4.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.4.5 TEST SETUP

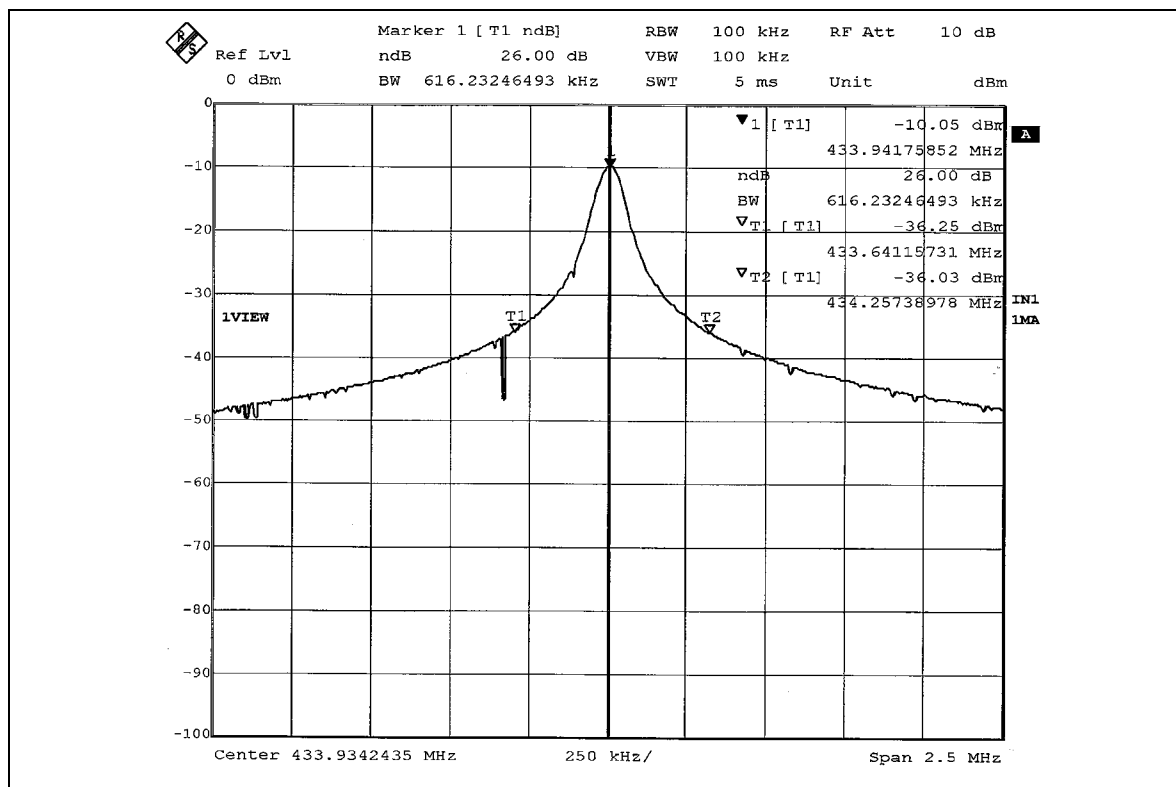
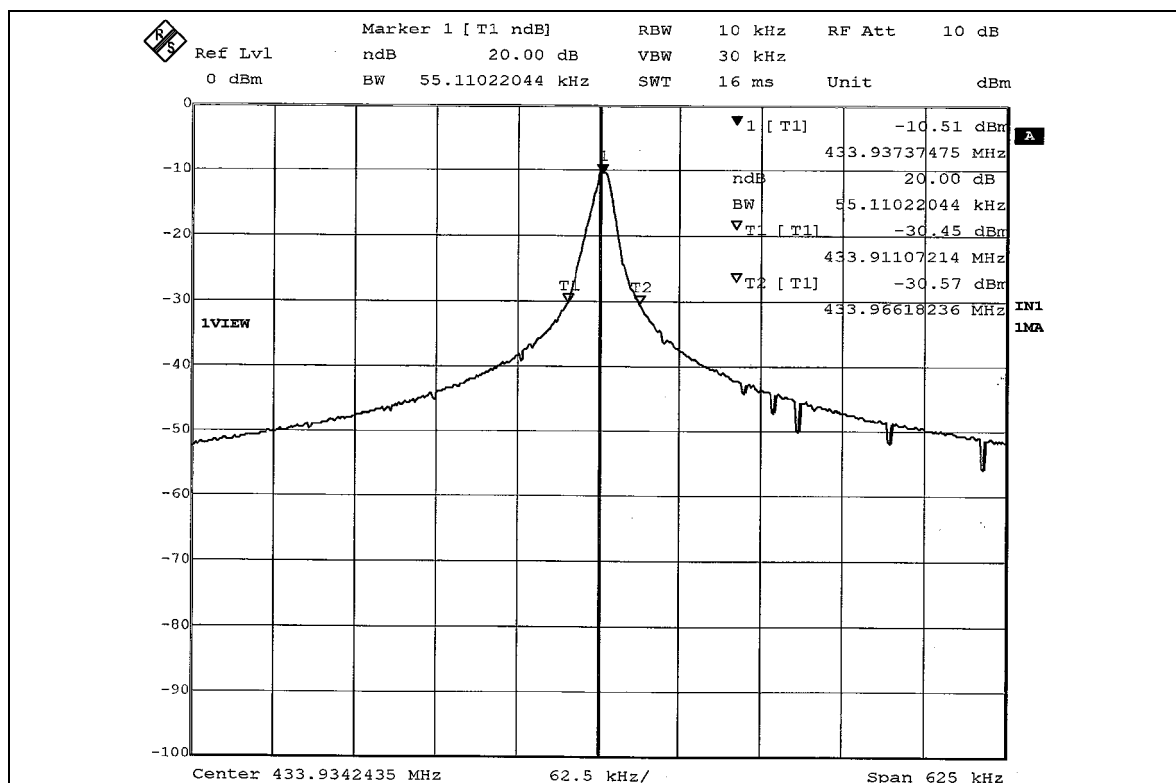


#### 4.4.6 TEST RESULTS

Frequency (MHz)	20 dB bandwidth (kHz)	Maximum limit (kHz)	PASS/FAIL
433.92	55.11	1084.80	PASS

The plot of test result is attached as below.





## 5. PHOTOGRAPHS OF THE TEST CONFIGURATION

### RADIATED EMISSION TEST



## 6. INFORMATION ON THE TESTING LABORATORIES

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

<b>USA</b>	FCC, NVLAP, UL, A2LA
<b>Germany</b>	TUV Rheinland
<b>Japan</b>	VCCI
<b>Norway</b>	NEMKO
<b>Canada</b>	INDUSTRY CANADA , CSA
<b>R.O.C.</b>	CNLA, BSMI, DGT
<b>Netherlands</b>	Telefication
<b>Singapore</b>	PSB , GOST-ASIA(MOU)
<b>Russia</b>	CERTIS(MOU)

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). If you have any comments, please feel free to contact us at the following:

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