

# **FCC ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT CERTIFICATION TO FCC PART 15 REQUIREMENTS**

for

**INTENTIONAL RADIATOR**

of

**Car Alarm Transceiver**

**FCC ID Number : H5OTR05**

**Trade Name : Advance Security Inc.**

**Model Number : TRX852DV**

**Agency Series : N/A**

**Report Number : 02E0516-D**

**Date : November 6, 2002**

Prepared for :

**Advance Security Inc.**

**3F, 48 Ta An Street, Hsi Chih,  
Taipei Hsien, Taiwan, R. O. C.**

Prepared by :

**C&C LABORATORY CO., LTD.**

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## 1. VERIFICATION OF COMPLIANCE

COMPANY NAME : Advance Security Inc.  
3F, 48 Ta An Street, Hsi Chih,  
Taipei Hsien, Taiwan, R. O. C.

CONTACT PERSON : Michael Chen / President

TELEPHONE NO. : (886-2) 8648-1688

EUT DESCRIPTION : Car Alarm Transceiver

MODEL NAME/NUMBER : TRX852DV

FCC ID : H5OTR05

DATE TESTED : October 24, 2002 ~ October 31, 2002

REPORT NUMBER : 02E0516

TYPE OF EQUIPMENT	SECURITY EQUIPMENT (INTENTIONAL RADIATOR)
EQUIPMENT TYPE	433.92 MHz Car Alarm Transceiver
MEASUREMENT PROCEDURE	ANSI 63.4 / 1992
LIMIT TYPE	CERTIFICATION
FCC RULE	CFR 47, PART 15

The above equipment was tested by C&C Laboratory Co., Ltd. for compliance with the requirements set forth in the FCC CFR 47, PART 15. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties. **Warning:** This document reports conditions under which testing was conducted and results of tests performed. This document may not be altered or revised in any way unless done so by C&C Laboratory Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by C&C Laboratory Co., Ltd. will constitute fraud and shall nullify the document.

*Vince Chiang For.*

James Chan / Manager  
C&C Laboratory Co., Ltd.

## 2. PRODUCT DESCRIPTION

Fundamental Frequency	<b>433.92 MHz</b>
Power Source	<b>1.5V Battery</b>
Transmitting Time	<b>Periodic <math>\leq</math> 5 seconds</b>
Associated Receiver	<b>Model: H5OTR04 (FCC ID)</b>

## 3. TEST FACILITY

The open area test sites and conducted measurement facilities used to collect the radiated data are located at No. 199, Chung Sheng Road, Hsin Tien City, Taipei, Taiwan R.O.C. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

## 4. MEASUREMENT STANDARDS

The site is constructed and calibrated in conformance with the requirements of ANSI C63.4/1992.

## 5. TEST METHODOLOGY

For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 KHz, up to at least the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. (CFR 47 Section 15.33)

## 6. MEASUREMENT EQUIPMENT USED

Manufacturer	Model Number	Description	Cal Due Date
H.P.	8566B	Spectrum Analyzer (100Hz-22GHz)	06/2003
H.P.	85662A	Spectrum Analyzer (100Hz-22GHz)	06/2003
H.P.	85650A	QUASI-PEAK DETECTOR	06/2003
EMCO	3115	Antenna (1-18GHz)	02/2003
EMCO	3142	Antenna (30-2000MHz)	06/2003
H.P.	8447D A	Amplifier (30-2000MHz)	05/2003
H.P.	8449B	Amplifier (1-26.5GHz)	01/2003

## 7. POWERLINE RFI LIMIT

CONNECTED TO AC POWER LINE	SECTION 15.207
CARRIER CURRENT SYSTEM IN THE FREQUENCY RANGE OF 450 KHZ TO 30 MHZ	SECTION 15.205 AND SECTION 15.209, 15.221, 15.223, 15.225 OR 15.227, AS APPROPRIATE.
BATTERY POWER	NO REQUIRED.

## 8. RADIATED EMISSION LIMITS

GENERAL REQUIREMENTS	SECTION 15.209
RESTRICTED BANDS OF OPERATION	SECTION 15.205
PERIODIC OPERATION IN THE BAND 40.66 -40.70 MHz AND ABOVE 70 MHz.	SECTION 15.231

## 9. SYSTEM TEST CONFIGURATION

Use a block of foam and combined it with EUT wrapping rubber band around it. This way it can test X.Y, and Z axis. To activate continuous transmission, place a small plastic block between rubber band and EUT push button.



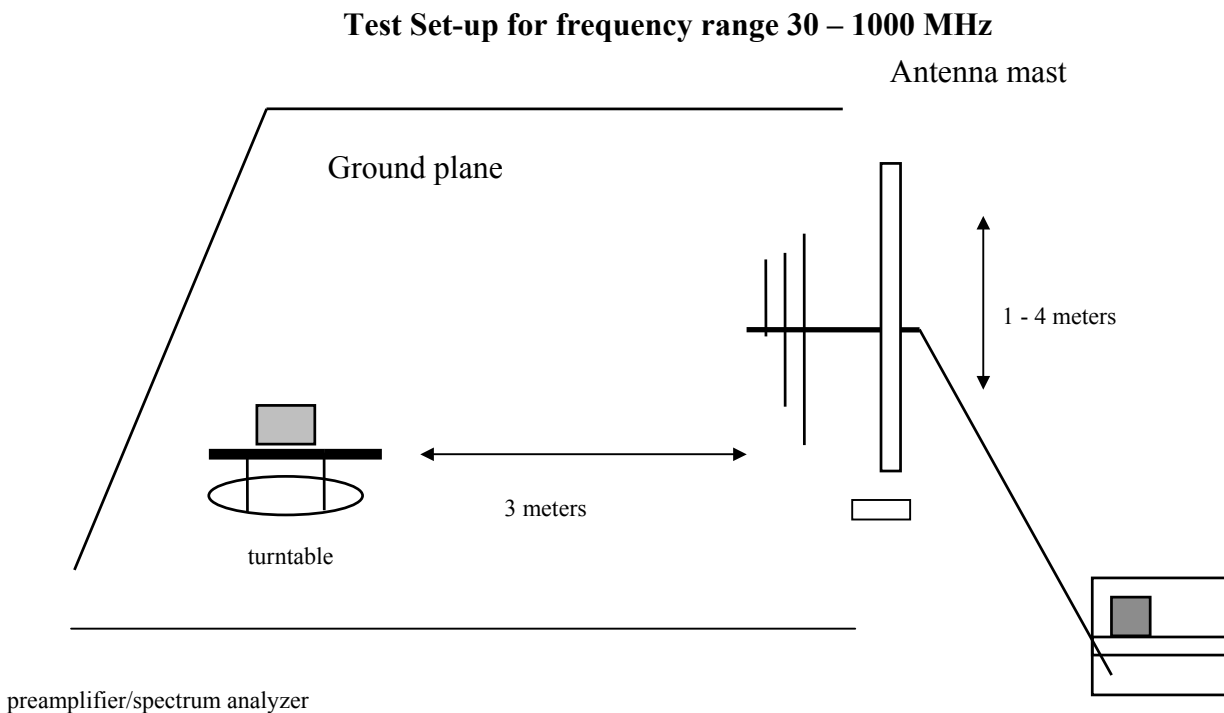
**Radiated Open Site Test Set-up (Transmitter Mode)**



**Radiated Open Site Test Set Up (Receiver Mode)**

## 10. TEST PROCEDURE

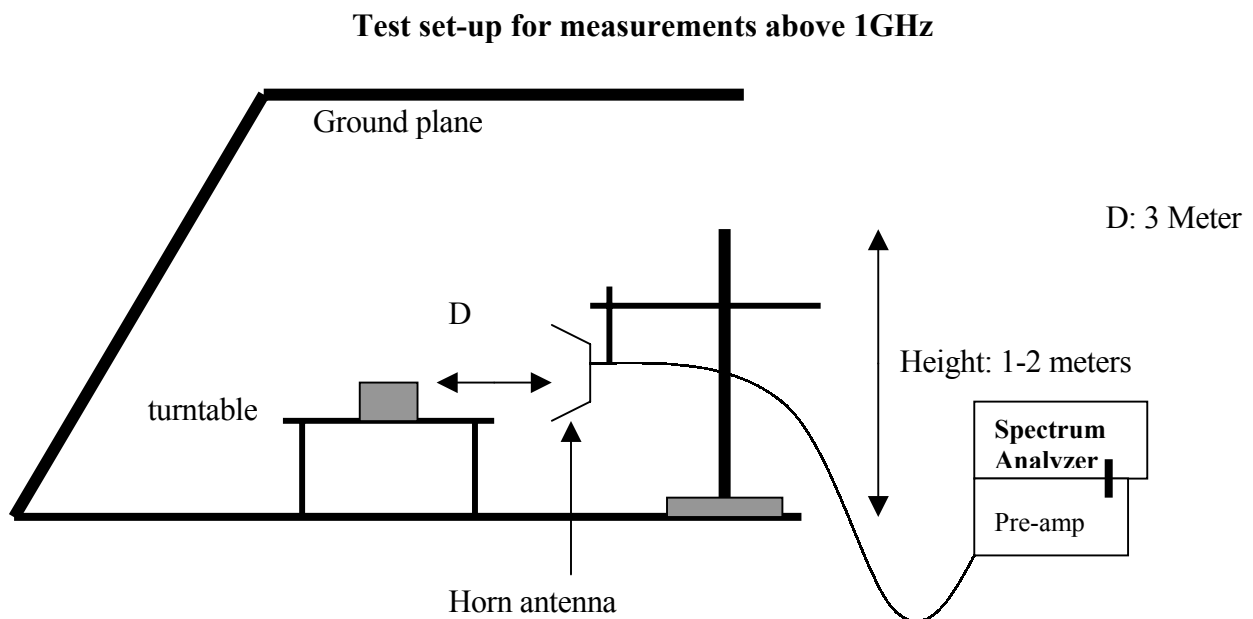
### Radiated Emissions, 15.231(4)(b)



**Fig. 1**

1. The EUT was placed on a wooden table on the outdoor ground plane. The search antenna was placed 3-meters from the EUT.
2. The turntable was slowly rotated to locate the direction of maximum emission at each emission falling in the restricted bands of 15.205. The EUT was moved throughout the XY, XZ, and YZ planes to maximize emissions received by the search antenna.
3. Once maximum direction was determined, the search antenna was raised and lowered in both vertical and horizontal polarizations. The maximum readings so obtained are recorded in the data listed below.





**Fig. 2**

1. The EUT was placed on a wooden table on the outdoor ground plane. The search antenna was placed 1-meters from the EUT. The EUT antenna was mounted vertically as per normal installation.
2. The turntable was slowly rotated to locate the direction of maximum emission at each emission falling in the restricted bands of 15.205. The EUT was moved throughout the XY, XZ, and YZ planes to maximize emissions received by the search antenna.
3. Once maximum direction was determined, the search antenna was raised and lowered in both vertical and horizontal polarizations. The maximum readings so obtained are recorded in the data listed below.

## 11. Equipment Modifications

To achieve compliance to FCC Section 15.231 technical limits, the following change(s) were made during compliance testing:

**NONE**

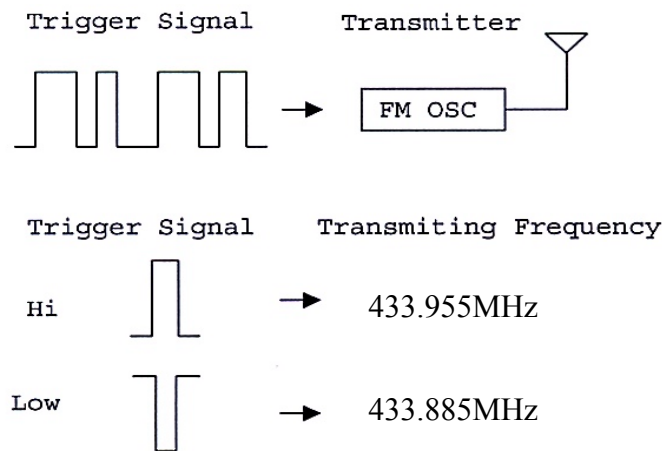
## 12. TEST RESULT

Powerline RFI Class B	Eut	Radiated Emission Limits	Eut
SECTION 15.207		SECTION 15.209	X
SECTION 15.205, 15.209, 15.221, 15.223, x 15.225 OR 15.227		SECTION 15.205	
BATTERY POWER	X	SECTION 15.231 (b)	X
		SECTION 15.231 (e)	
		SECTION 15.109	X

### 12.1 Maximum Modulation Percentage (M%)

CALCULATION: No duty cycle.

Note: Following is the diagram to show the modulation method of the EUT.



This EUT works as a FM modulation. Signal HI will trigger FM OSC to generate a 433.955 MHz frequency and signal LOW will trigger FM OSC to generate a 433.885 MHz frequency. It is only 0.07 MHz deviation, so that there is no duty cycle on it.

### 12.2 The Emissions Bandwidth

The bandwidth of the emissions were investigated per 15.231(c)

Center Frequency	Measured	Limits
433.92 MHz	725.0 kHz < (refer to plot)	433.92MHzX0.25%=1084.8 kHz

hp

MARKER  $\Delta$   
725 KHz  
.71 dB

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 725 kHz  
.71 dB

CLEAR  
WRITE B

MAX  
HOLD B

VIEW B

BLANK B

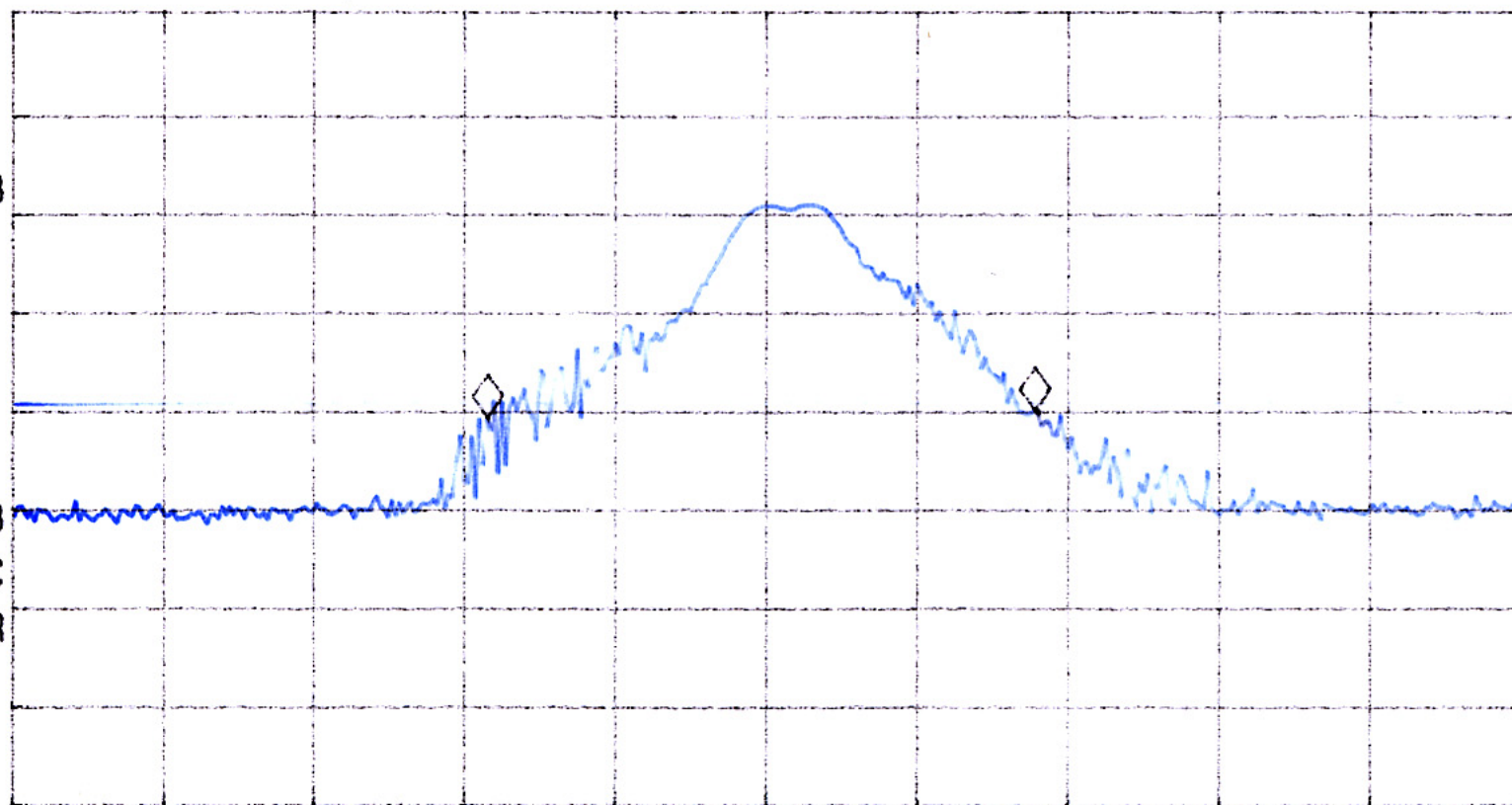
Trace  
A B C

More  
1 of 4

LOG REF 80.0 dB $\mu$ V

10  
dB/  
ATN  
10 dB

DL  
40.5  
dB $\mu$ V  
MA SB  
SC FC  
CORR



CENTER 433.890 MHz  
IF BW 120 kHz

AVG BW 300 kHz

SPAN 2.000 MHz  
SWP 20.0 msec

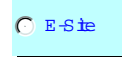
# C&C Laboratory CO., LTD.

FCC, VCCI, CISPR, CE, AUSTEL, NZ  
UL, CSA, TUV, BSMI, DHHS, NVLAP

No. 199 Chung Sheng Road  
Hsin Tien City, Taipei, Taiwan, R.O.C.  
PHONE: 02-2217-0894 FAX: 02-2217-1254

**Project #:** 02E0516  
**Report #:** 0516E1  
**Date & Time:** 2002/10/25  
**Test Engr:** DAVID HUNG

**Company:** Advance Security Inc.  
**EUT Description:** TRX852DV (433.92 MHz / Car Alarm Transceiver)  
**Test Configuration :** EUT ONLY  
**Type of Test:** FCC 15.231(b)  
**Mode of Operation:** TRANSMITTER MODE



$$M\% = ((t1+t2+t3+\dots)/T) * 100\% = 100 \%$$

$$Av \text{ Reading} = Pk \text{ Reading} + 20 * \log(M\%)$$

$$20 * \log(M\%) = 0$$

	Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	AF (dB)	Closs (dB)	Pre-amp (dB)	Level (dBuV/m)	Limit FCC B	Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)
	Button #1:											
X	433.87	51.50	51.50	17.43	3.21	26.33	45.81	80.82	-35.01	3mV	270	1.00
	867.86	38.90	38.90	24.81	4.75	26.31	42.15	60.82	-18.67	3mV	270	1.30
Y	433.86	45.72	45.72	17.43	3.21	26.33	40.03	80.82	-40.79	3mV	0	1.10
	867.88	37.20	37.20	24.81	4.75	26.31	40.45	60.82	-20.37	3mV	0	1.20
Z	433.94	49.00	49.00	17.43	3.21	26.33	43.31	80.82	-37.51	3mV	90	1.00
	867.88	38.00	38.00	24.81	4.75	26.31	41.25	60.82	-19.57	3mV	90	1.50
X	433.94	50.50	50.50	17.43	3.21	26.33	44.81	80.82	-36.01	3mH	90	1.00
	867.76	35.90	35.90	24.81	4.75	26.31	39.15	60.82	-21.67	3mH	90	1.10
Y	433.88	50.00	50.00	17.43	3.21	26.33	44.31	80.82	-36.51	3mH	0	1.00
	867.88	32.30	32.30	24.81	4.75	26.31	35.55	60.82	-25.27	3mH	0	1.20
Z	433.96	47.70	47.70	17.43	3.21	26.33	42.01	80.82	-38.81	3mH	270	1.00
	867.89	37.50	37.50	24.81	4.75	26.31	40.75	60.82	-20.07	3mH	270	1.30

Peak: RBW= 120KHz  
VBW= 300KHz  
A(Average): PkReading - 0dB

Total Data #12

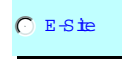
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**Project #:** 02E0516  
**Report #:** 0516E2  
**Date & Time:** 2002/10/25  
**Test Engr:** DAVID HUNG

**Company:** Advance Security Inc.  
**EUT Description:** TRX852DV (433.92 MHz / Car Alarm Transceiver)  
**Test Configuration :** EUT ONLY  
**Type of Test:** FCC 15.231(b)  
**Mode of Operation:** TRANSMITTER MODE



$$M\% = ((t1+t2+t3+\dots)/T) * 100\% = 100 \%$$

$$Av \text{ Reading} = Pk \text{ Reading} + 20 * \log(M\%)$$

$$20 * \log(M\%) = 0$$

	Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	AF (dB)	Closs (dB)	Pre-amp (dB)	Level (dBuV/m)	Limit FCC B	Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)
	Button #2:											
X	433.89	51.40	51.40	17.43	3.21	26.33	45.71	80.82	-35.11	3mV	180	1.00
	867.89	37.30	37.30	24.81	4.75	26.31	40.55	60.82	-20.27	3mV	180	1.20
Y	433.88	49.10	49.10	17.43	3.21	26.33	43.41	80.82	-37.41	3mV	90	1.00
	867.74	38.00	38.00	24.81	4.75	26.31	41.25	60.82	-19.57	3mV	90	1.30
Z	433.96	51.40	51.40	17.43	3.21	26.33	45.71	80.82	-35.11	3mV	270	1.00
	867.77	38.20	38.20	24.81	4.75	26.31	41.45	60.82	-19.37	3mV	270	1.40
X	433.89	50.60	50.60	17.43	3.21	26.33	44.91	80.82	-35.91	3mH	270	1.00
	867.75	37.20	37.20	24.81	4.75	26.31	40.45	60.82	-20.37	3mH	270	1.10
Y	433.94	54.10	54.10	17.43	3.21	26.33	48.41	80.82	-32.41	3mH	90	1.10
	867.89	38.30	38.30	24.81	4.75	26.31	41.55	60.82	-19.27	3mH	90	1.10
Z	433.89	44.50	44.50	17.43	3.21	26.33	38.81	80.82	-42.01	3mH	270	1.00
	867.75	35.50	35.50	24.81	4.75	26.31	38.75	60.82	-22.07	3mH	270	1.20

Peak: RBW= 120KHz  
VBW= 300KHz  
A(Average): PkReading - 0dB

Total Data #12

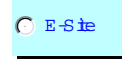
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UL, CSA, TUV, BSMI, DHHS, NVLAP

No. 199 Chung Sheng Road  
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**Project #:** 02E0516  
**Report #:** 0516E3  
**Date & Time:** 2002/10/25  
**Test Engr:** DAVID HUNG

**Company:** Advance Security Inc.  
**EUT Description:** TRX852DV (433.92 MHz / Car Alarm Transceiver)  
**Test Configuration :** EUT ONLY  
**Type of Test:** FCC 15.231(b)  
**Mode of Operation:** TRANSMITTER MODE



$$M\% = ((t1+t2+t3+...)/T) * 100\% = 100 \%$$

$$Av \text{ Reading} = Pk \text{ Reading} + 20 * \log(M\%)$$

$$20 * \log(M\%) = 0$$

	Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	AF (dB)	Closs (dB)	Pre-amp (dB)	Level (dBuV/m)	Limit FCC B	Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)
	Button #3:											
X	433.88	47.00	47.00	17.43	3.21	26.33	41.31	80.82	-39.51	3mV	180	1.00
	867.75	36.70	36.70	24.81	4.75	26.31	39.95	60.82	-20.87	3mV	180	1.10
Y	433.79	49.20	49.20	17.43	3.21	26.33	43.51	80.82	-37.31	3mV	0	1.10
	867.76	39.20	39.20	24.81	4.75	26.31	42.45	60.82	-18.37	3mV	0	1.40
Z	433.93	48.90	48.90	17.43	3.21	26.33	43.21	80.82	-37.61	3mV	270	1.00
	867.74	38.00	38.00	24.81	4.75	26.31	41.25	60.82	-19.57	3mV	270	1.50
X	433.95	51.30	51.30	17.43	3.21	26.33	45.61	80.82	-35.21	3mH	0	1.00
	867.95	31.50	31.50	24.81	4.75	26.31	34.75	60.82	-26.07	3mH	0	1.10
Y	433.94	51.00	51.00	17.43	3.21	26.33	45.31	80.82	-35.51	3mH	180	1.00
	867.74	38.50	38.50	24.81	4.75	26.31	41.75	60.82	-19.07	3mH	180	1.10
Z	433.88	47.80	47.80	17.43	3.21	26.33	42.11	80.82	-38.71	3mH	270	1.30
	867.77	36.10	36.10	24.81	4.75	26.31	39.35	60.82	-21.47	3mH	270	1.20

Peak: RBW= 120KHz  
VBW= 300KHz  
A(Average): PkReading - 0dB

Total Data #12

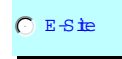
# C&C Laboratory CO., LTD.

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**Project #:** 02E0516  
**Report #:** 0516E4  
**Date & Time:** 2002/10/25  
**Test Engr:** DAVID HUNG

**Company:** Advance Security Inc.  
**EUT Description:** TRX852DV (433.92 MHz / Car Alarm Transceiver)  
**Test Configuration :** EUT ONLY  
**Type of Test:** FCC 15.231(b)  
**Mode of Operation:** TRANSMITTER MODE



$$M\% = ((t1+t2+t3+\dots)/T) * 100\% = 100 \%$$

$$Av \text{ Reading} = Pk \text{ Reading} + 20 * \log(M\%)$$

$$20 * \log(M\%) = 0$$

	Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	AF (dB)	Closs (dB)	Pre-amp (dB)	Level (dBuV/m)	Limit FCC B	Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)
	Button #4:											
X	433.89	48.00	48.00	17.43	3.21	26.33	42.31	80.82	-38.51	3mV	90	1.00
	867.75	36.30	36.30	24.81	4.75	26.31	39.55	60.82	-21.27	3mV	90	1.20
Y	433.94	51.10	51.10	17.43	3.21	26.33	45.41	80.82	-35.41	3mV	0	1.30
	867.78	39.40	39.40	24.81	4.75	26.31	42.65	60.82	-18.17	3mV	0	1.00
Z	433.88	49.70	49.70	17.43	3.21	26.33	44.01	80.82	-36.81	3mV	270	1.00
	867.77	38.80	38.80	24.81	4.75	26.31	42.05	60.82	-18.77	3mV	270	1.50
X	433.95	51.20	51.20	17.43	3.21	26.33	45.51	80.82	-35.31	3mH	180	1.00
	867.85	37.90	37.90	24.81	4.75	26.31	41.15	60.82	-19.67	3mH	180	1.40
Y	433.88	51.60	51.60	17.43	3.21	26.33	45.91	80.82	-34.91	3mH	0	1.00
	867.87	38.60	38.60	24.81	4.75	26.31	41.85	60.82	-18.97	3mH	0	1.20
Z	433.96	55.30	55.30	17.43	3.21	26.33	49.61	80.82	-31.21	3mH	90	1.00
	867.77	41.10	41.10	24.81	4.75	26.31	44.35	60.82	-16.47	3mH	90	1.30

There are total 5 buttons, only one has function, the other 4 buttons which if pressed will produce the digital control signals and modulate the carrier signal.

Peak: RBW= 120KHz  
VBW= 300KHz  
A(Average): PkReading - 0dB

Total Data #12

# C&C Laboratory CO., LTD.

FCC, VCCI, CISPR, CE, AUSTEL, NZ  
UL, CSA, TUV, BSMI, DHHS, NVLAP

No. 199 Chung Sheng Road  
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**Project #:** 02E516  
**Report #:** 0516E5  
**Date & Time:** 2002/10/24  
**Test Engr:** DAVID HUNG

**Company:** Advance Security Inc.  
**EUT Description:** TRX852DV (433.92 MHz / Car Alarm Transceiver)  
**Test Configuration :** EUT ONLY  
**Type of Test:** FCC 15.231(b)/FCC 15.209  
**Mode of Operation:** TRANSMITTER MODE

E-Site

Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	AF (dB)	Closs (dB)	Pre-amp (dB)	Level (dBuV/m)	Limit FCC_B	Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)	Mark (P/Q/A)
1302	55.10	55.10	24.88	3.59	37.07	46.50	54.0	-7.50	3mV	180	1.0	A
1736	52.85	52.85	26.37	4.44	36.47	47.19	60.8	-13.61	3mV	180	1.0	A
2170	48.34	48.34	27.75	4.47	36.06	44.50	60.8	-16.30	3mV	90	1.0	A
2604	53.44	53.44	28.82	5.64	36.02	51.88	60.8	-8.92	3mV	90	1.0	A
3037	49.62	49.62	30.38	5.81	36.06	52.15	60.8	-8.65	3mV	270	1.0	A
3472	48.32	48.32	31.26	6.13	35.64	50.07	60.8	-10.73	3mV	270	1.0	A
3905	46.42	46.42	32.30	6.68	35.21	50.19	54.0	-3.81	3mV	90	1.0	A
4339	47.57	47.57	32.36	7.15	35.17	51.91	54.0	-2.09	3mV	90	1.0	A
1302	51.50	51.50	24.88	3.59	37.07	42.90	54.0	-11.10	3mH	90	1.0	A
1736	52.34	52.34	26.37	4.44	36.47	46.68	60.8	-14.12	3mH	90	1.0	A
2170	49.27	49.27	27.75	4.47	36.06	45.43	60.8	-15.37	3mH	270	1.0	A
2603	53.98	53.98	28.82	5.64	36.02	52.42	60.8	-8.38	3mH	270	1.0	A
3038	49.13	49.13	30.38	5.81	36.06	52.15	60.8	-8.65	3mH	180	1.0	A
3471	49.20	49.20	31.26	6.13	35.64	50.95	60.8	-9.85	3mH	180	1.0	A
3905	48.04	48.04	32.30	6.68	35.21	51.81	54.0	-2.19	3mH	0	1.0	A
4339	47.62	47.62	32.36	7.14	35.17	51.95	54.0	-2.05	3mH	0	1.0	A

\* No other emission were found within 20dB under the limits upto 4.5 GHz.

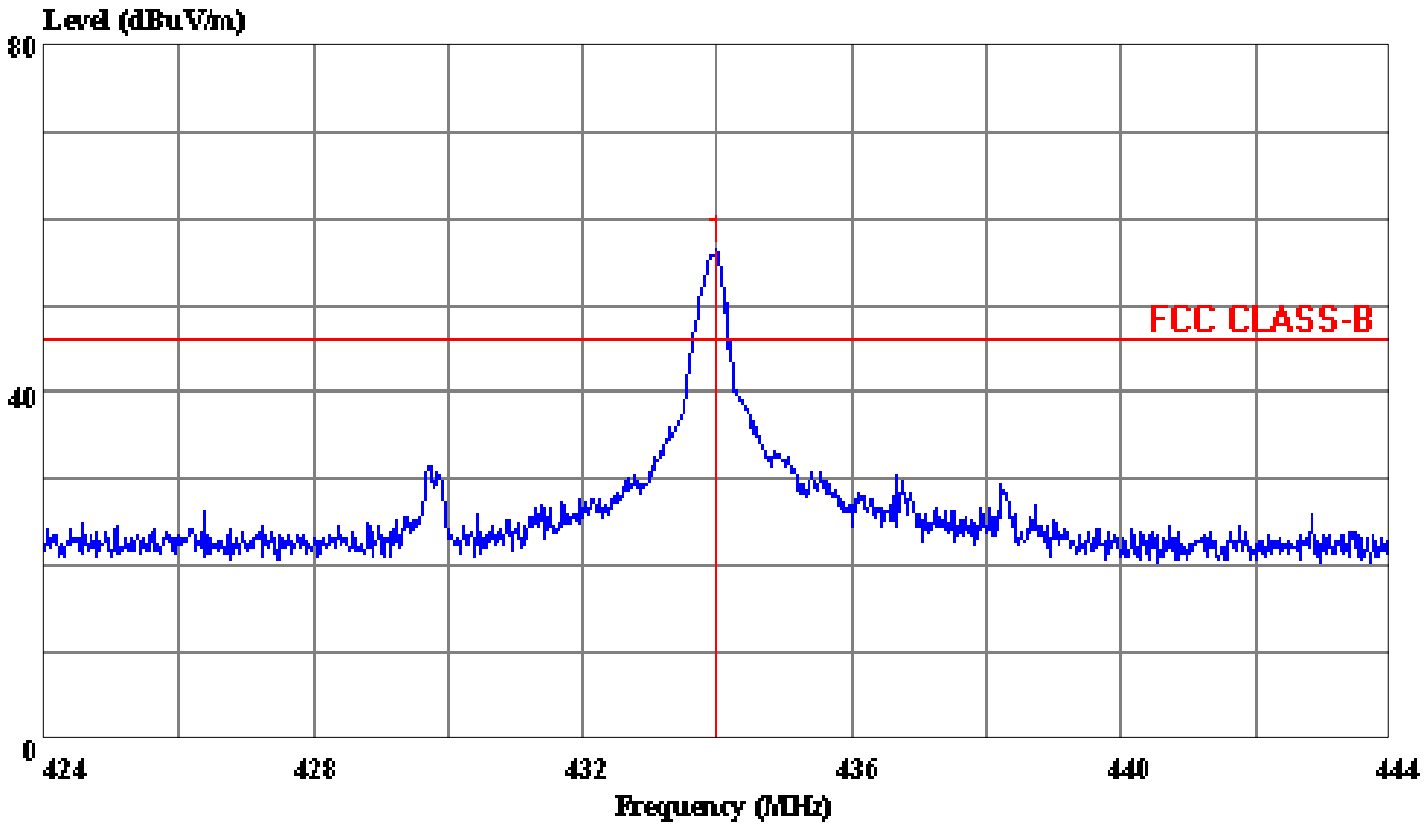
Total data #16  
V.2d

P(Peak): RBW=VBW=1MHz  
A(Average): Pk Reading -0dB(For FCC 15.231(b))



Data#: 59 File#: 0516e.emi

Date: 2002-10-31 Time: 11:03:29



(E- Site)

Trace: 56

Ref Trace:

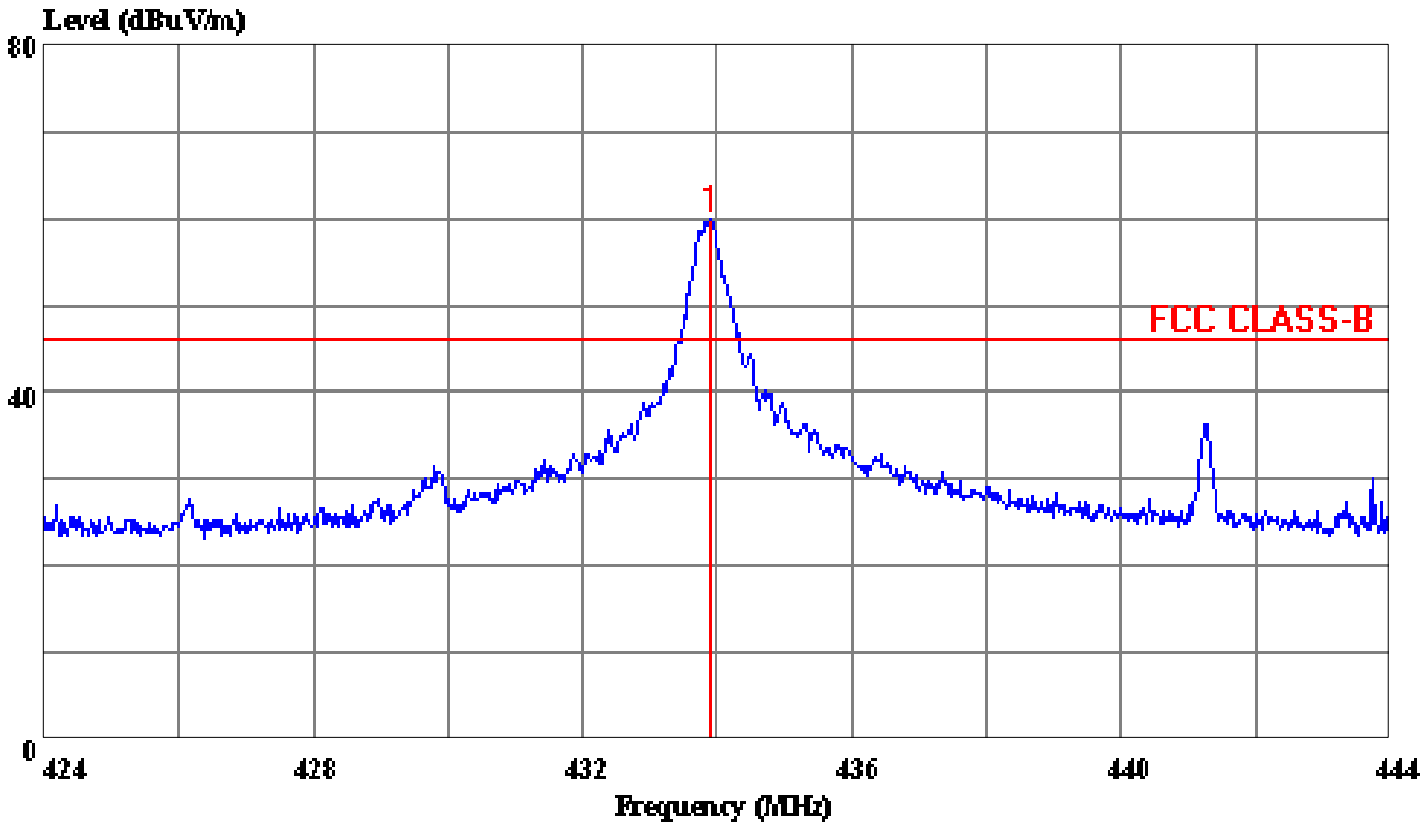
Condition: VERTICAL  
 Report No. : 02E0516  
 Test Engr. : DAVID HUNG  
 Company : Advance Security Inc.  
 EUT : TRX852DV  
 Test Config : EUT / TX  
 Type of Test: FCC 15.109  
 Mode of Op. : RECEIVER MODE (Model No. TRX86 transmit signal and trigger EUT to product signal)

Page: 1

	Read
Freq	Level
MHz	dBuV
1 *	433.980 62.10

Data#: 61 File#: 0516e.emi

Date: 2002-10-31 Time: 11:04:10



(E- Site)

Trace: 57

Ref Trace:

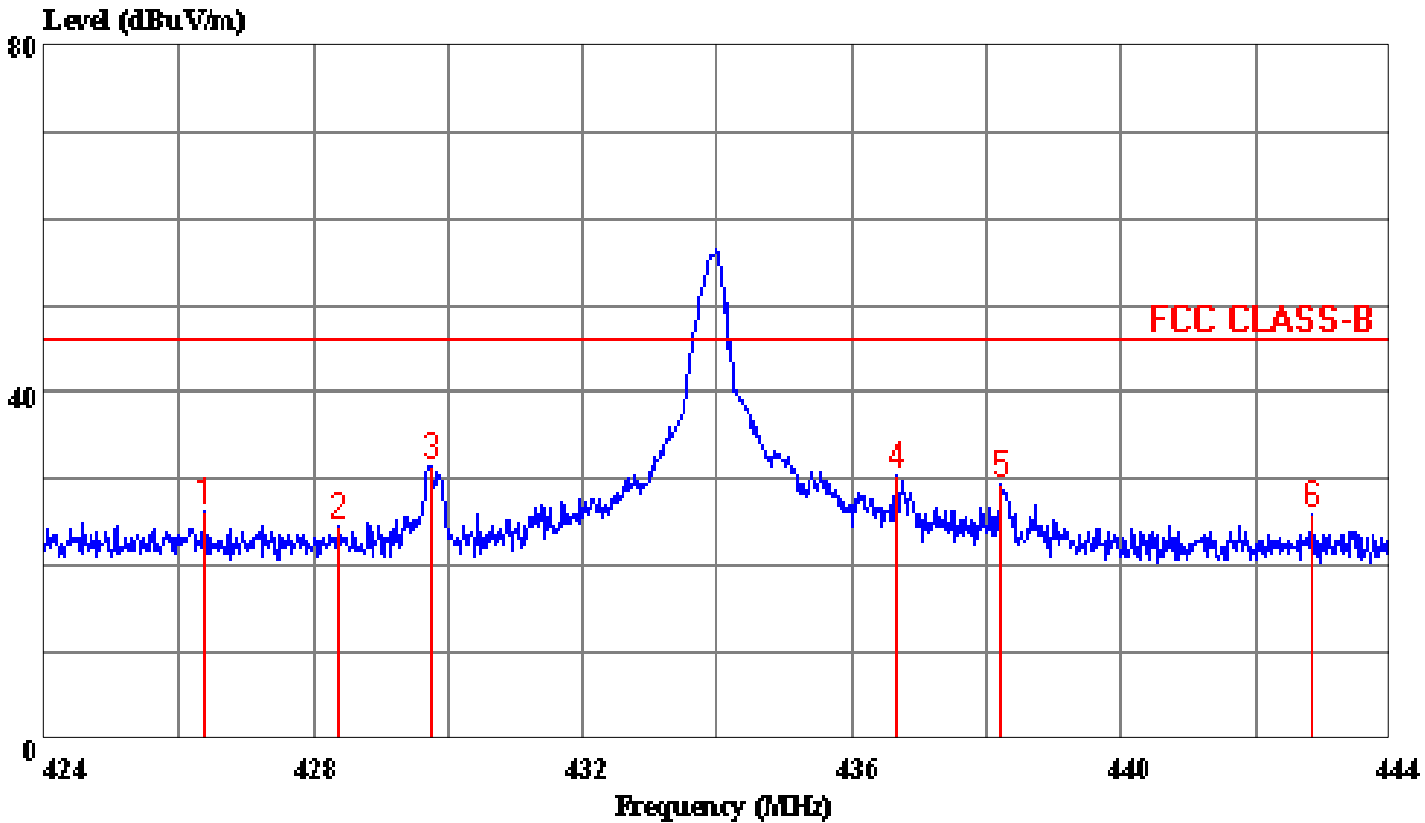
Condition: HORIZONTAL  
 Report No. : 02E0516  
 Test Engr. : DAVID HUNG  
 Company : Advance Security Inc.  
 EUT : TRX852DV  
 Test Config : EUT / TX  
 Type of Test: FCC 15.109  
 Mode of Op. : RECEIVER MODE (Model No. TRX86 transmit signal and trigger EUT to product signal)

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	Read
Freq	Level
MHz	dBuV
1 *	433.900 65.50

Data#: 63 File#: 0516e.emi

Date: 2002-10-31 Time: 11:05:49



(E- Site)

Trace: 56

Ref Trace:

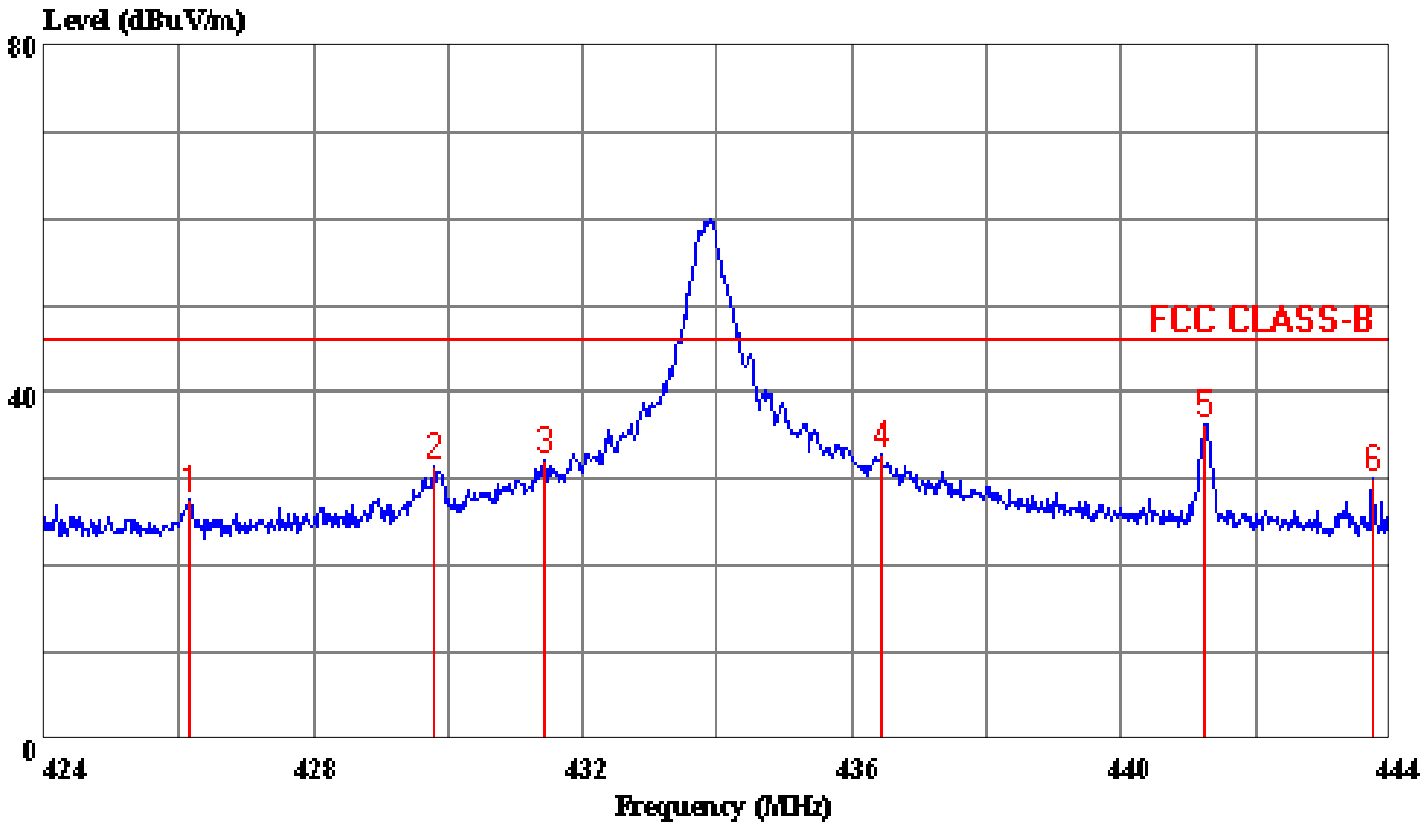
Condition: VERTICAL  
 Report No. : 02E0516  
 Test Engr. : DAVID HUNG  
 Company : Advance Security Inc.  
 EUT : TRX852DV  
 Test Config : EUT / TX  
 Type of Test: FCC 15.109  
 Mode of Op. : RECEIVER MODE (Model No. TRX86 transmit signal and trigger EUT to product signal)

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	Read Freq	Probe Level	Probe Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV/m	dBuV/m	dB	
1	426.360	31.90	17.56	3.19	26.30	26.34	46.00	-19.66	Peak
2	428.380	30.30	17.52	3.19	26.31	24.70	46.00	-21.30	Peak
3	429.740	37.10	17.49	3.20	26.31	31.47	46.00	-14.53	Peak
4	436.660	36.10	17.36	3.22	26.34	30.33	46.00	-15.67	Peak
5	438.220	35.20	17.32	3.22	26.35	29.40	46.00	-16.60	Peak
6	442.820	31.90	17.23	3.23	26.36	26.00	46.00	-20.00	Peak

Data#: 60 File#: 0516e.emi

Date: 2002-10-31 Time: 11:03:54



(E- Site)

Trace: 57

Ref Trace:

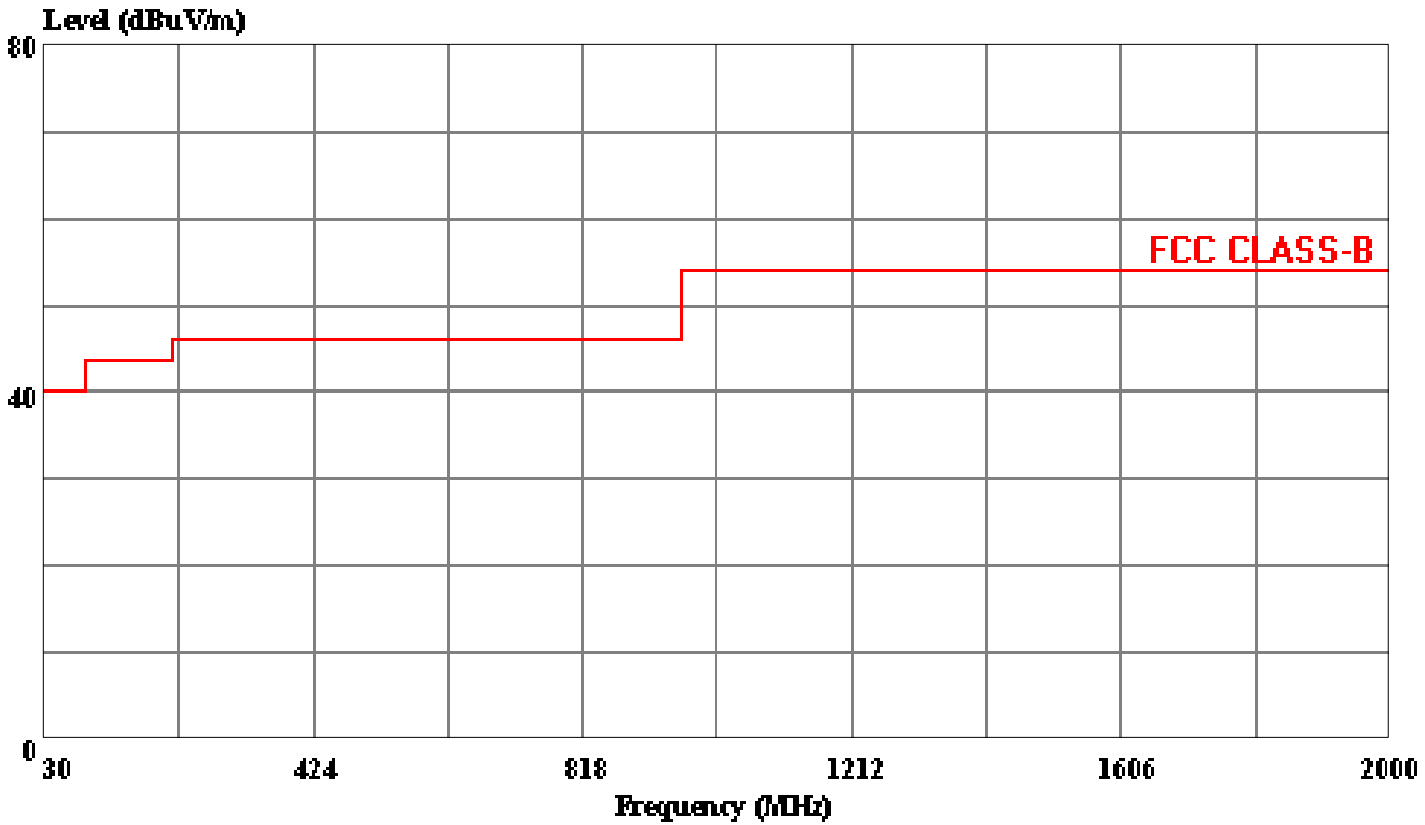
Condition: HORIZONTAL  
 Report No. : 02E0516  
 Test Engr. : DAVID HUNG  
 Company : Advance Security Inc.  
 EUT : TRX852DV  
 Test Config : EUT / TX  
 Type of Test: FCC 15.109  
 Mode of Op. : RECEIVER MODE (Model No. TRX86 transmit signal and trigger EUT to product signal)

Page: 1

	Read Freq	Probe Level	Probe Factor	Cable Loss	Preamplifier Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV/m	dBuV/m	dB	
1	426.160	33.20	17.56	3.19	26.30	27.65	46.00	-18.35	Peak
2	429.780	37.30	17.49	3.20	26.31	31.67	46.00	-14.33	Peak
3	431.440	37.70	17.46	3.20	26.32	32.04	46.00	-13.96	Peak
4	436.420	38.60	17.36	3.22	26.34	32.84	46.00	-13.16	Peak
5	441.240	42.10	17.26	3.23	26.36	36.23	46.00	-9.77	Peak
6	443.720	36.00	17.22	3.23	26.37	30.08	46.00	-15.93	Peak

Data#: 64 File#: 0516e.emi

Date: 2002-10-31 Time: 11:05:23



(E-Site)

Trace:

Ref Trace:

Condition:  
 Report No. : 02E0504  
 Test Engr. : DAVID HUNG  
 Company : Advance Security Inc.  
 EUT : TRX852DV  
 Test Config : EUT / TX  
 Type of Test : FCC 15.109  
 Mode of Op. : RECEIVER MODE  
 : NO OTHER EMISSION WERE FOUND WITHIN  
 : 20 dB BELOW THE LIMITS FROM 30-2000MHZ