

FCC ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT CERTIFICATION TO FCC PART 15 REQUIREMENTS

for

INTENTIONAL RADIATOR

of

Car Alarm Transmitter

FCC ID Number : H5OT19

Trade Name : Advance Security Inc.

Model Number : TX553

Agency Series : N/A

Report Number : 03E0763-D

Date : January 15, 2003

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 Transmitter

MODEL NAME/NUMBER : TX553

FCC ID : H5OT19

DATE TESTED : January 10, 2002 & January 13, 2002

REPORT NUMBER : 03E0763

TYPE OF EQUIPMENT	SECURITY EQUIPMENT (INTENTIONAL RADIATOR)
EQUIPMENT TYPE	433.92 MHz Car Alarm Transmitter
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 Compliance Engineering Services, Inc. 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

Vince Chiang / Manager
C&C Laboratory Co., Ltd.

2. PRODUCT DESCRIPTION

Fundamental Frequency	433.92 MHz
Power Source	12V Battery
Transmitting Time	Periodic \leq 5 seconds
Associated Receiver	Model: H5OR35 (FCC ID)

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
ROHDE & SCHWARZ	DSAI- D 804.8932.52	EMI Test Display	12/2003
ROHDE & SCHWARZ	ESBI-RF/1005.43 00.52	EMI Test RF Unit	12/2003
H.P.	8593A	Spectrum Analyzer (9KHz-22GHz)	01/2003
EMCO	3115	Antenna (1-18GHz)	02/2003
SCHWARZBECK	VULB 9160	Antenna (30-2000 MHz)	05/2003
H.P.	8447D	Amplifier	05/2003
H.P.	8449B	Amplifier (1-26.5GHz)	02/2003

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

10. TEST PROCEDURE

Radiated Emissions, 15.231(4)(b)

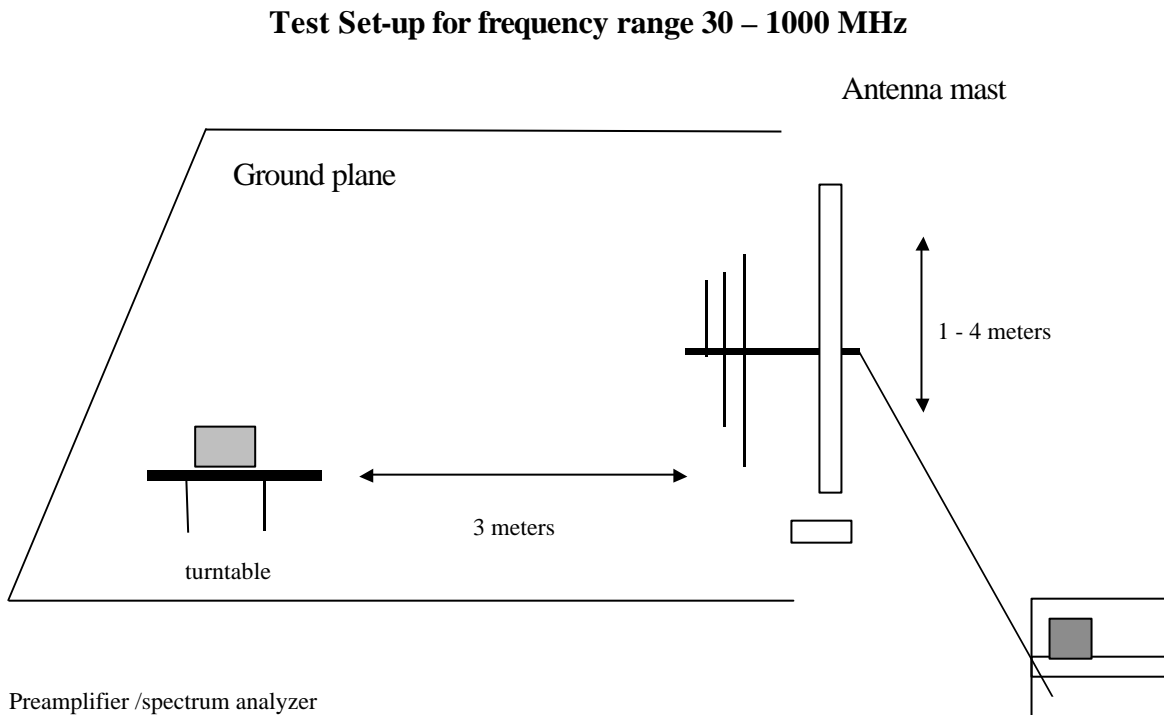


Fig. 1

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.

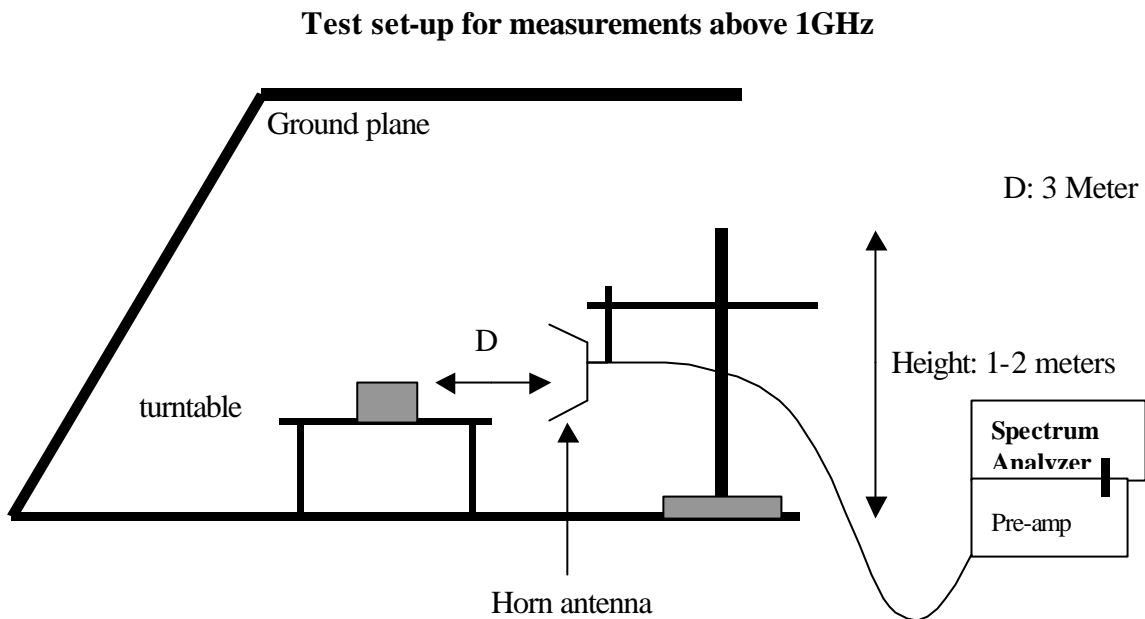


Fig. 2

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)	

12.1 Maximum Modulation Percentage (M%)

CALCULATION:

$$\text{Average Reading} = \text{Peak Reading (dBuV/m)} + 20 \log (\text{Duty Cycle})$$

In order to determine possible Maximum Modulation percentage, alternations are made to the EUT. We measured:

WHERE 1 Period = 143 mS
 Long pulse = 1.69 mS
 Short pulse = 0.53 mS
 No of Long pulse = 34
 No of Short pulse = 22

$$\text{Duty Cycle} = (N1L1 + N2L2 + \dots + Nn-1Ln-1 + NnLn) / 100 \text{ or } T$$

$$\text{Duty Cycle} = [(34 \times 1.69) + (22 \times 0.53)] / 100 = 0.6912 = 69.12 \% \text{ or } -3.2079 \text{ dB}$$

12.2 The Emissions Bandwidth

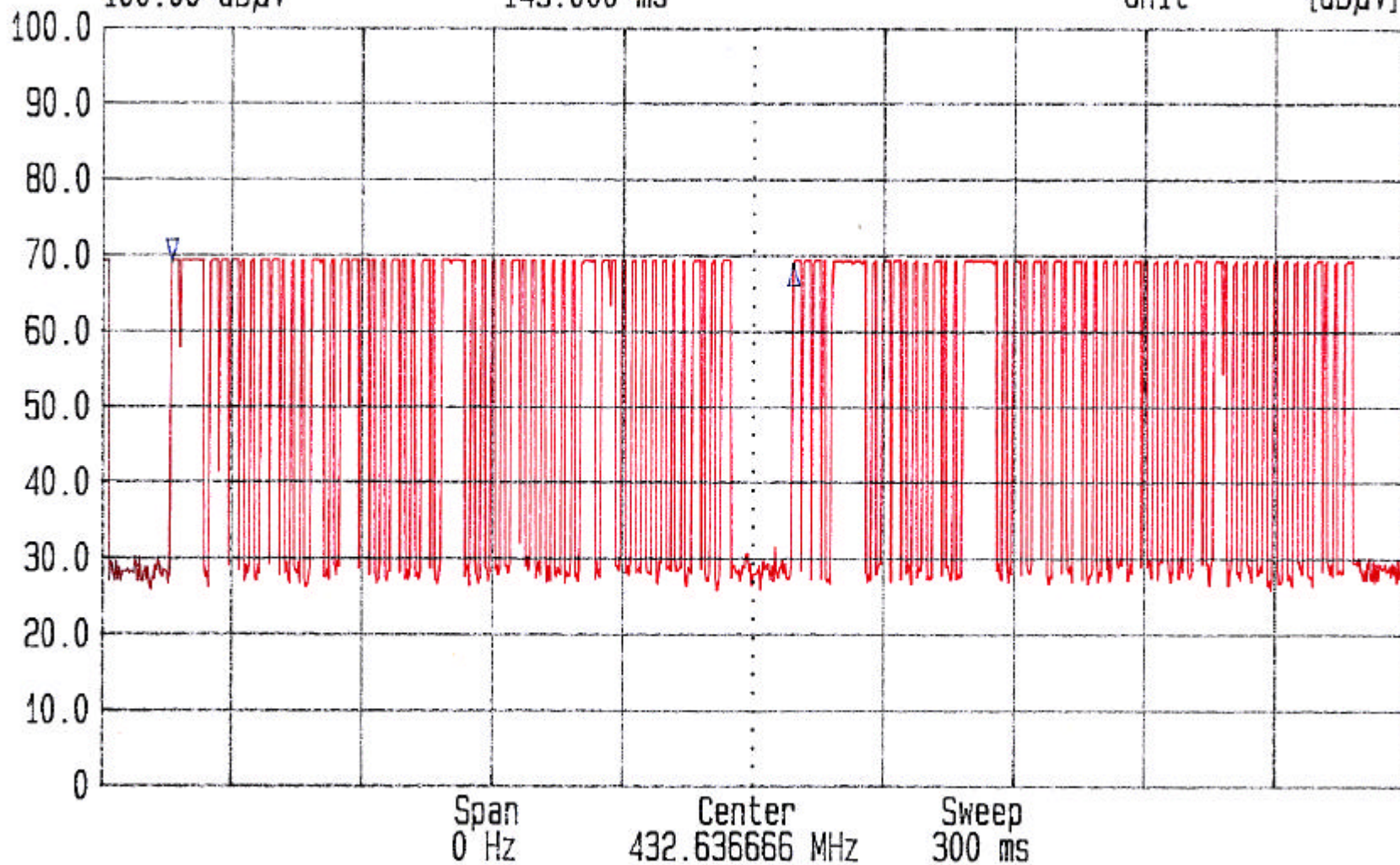
The bandwidth of the emissions were investigated per 15.231(c)

Center Frequency	Measured	Limits
433.92 MHz	993.3 kHz < (refer to plot)	433.92 MHz X 0.25% = 1084.8 kHz



TRG
Date 13.Jan.'03 Time 10:58:38
Ref.Lvl Delta 0 dB
100.00 dB μ V 143.000 ms

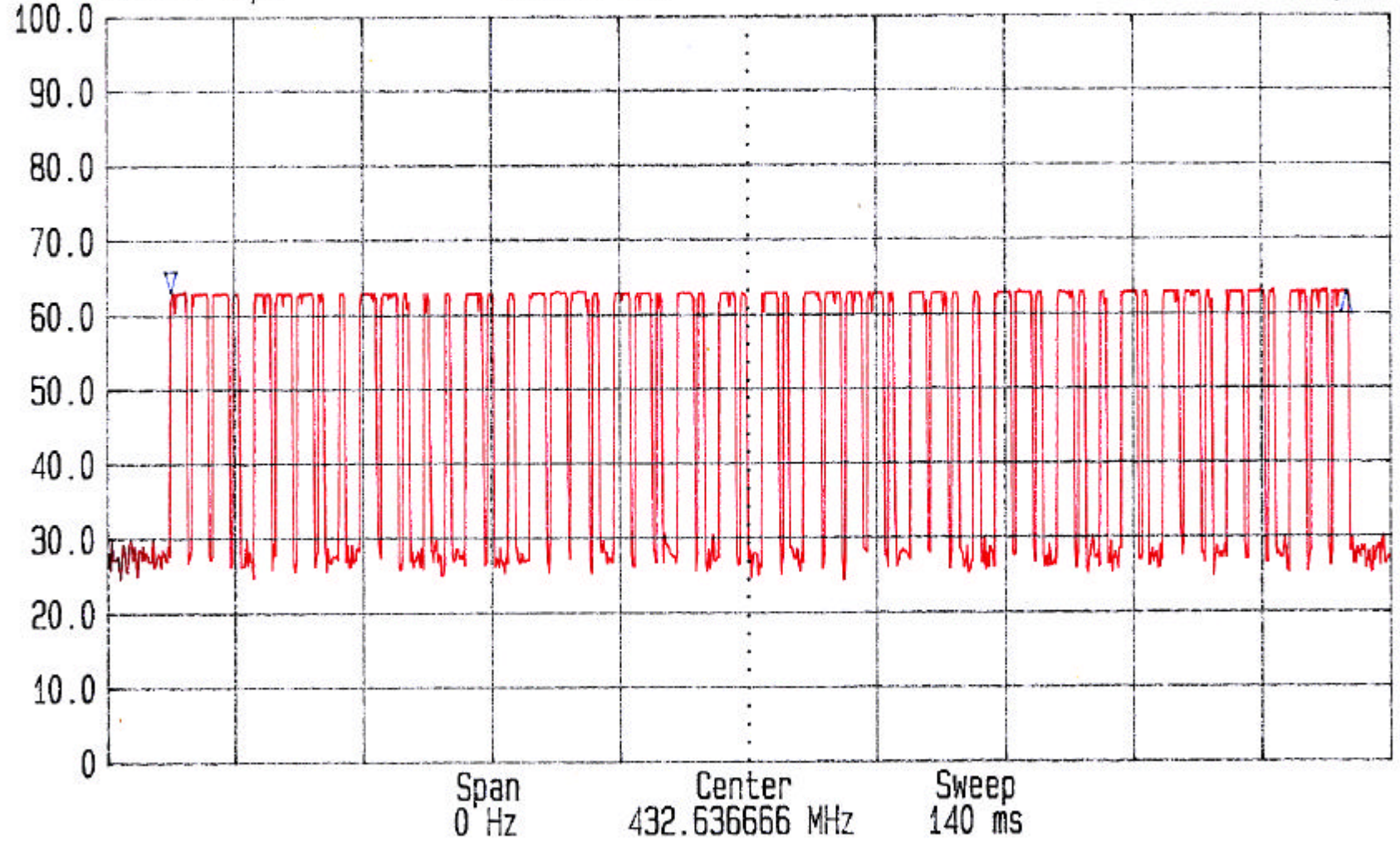
Res.Bw 120 kHz [imp] Vid.Bw 300 kHz
TG.Lvl off
CF.Stp 12.000 kHz RF.Att 10 dB
Unit [dB μ V]





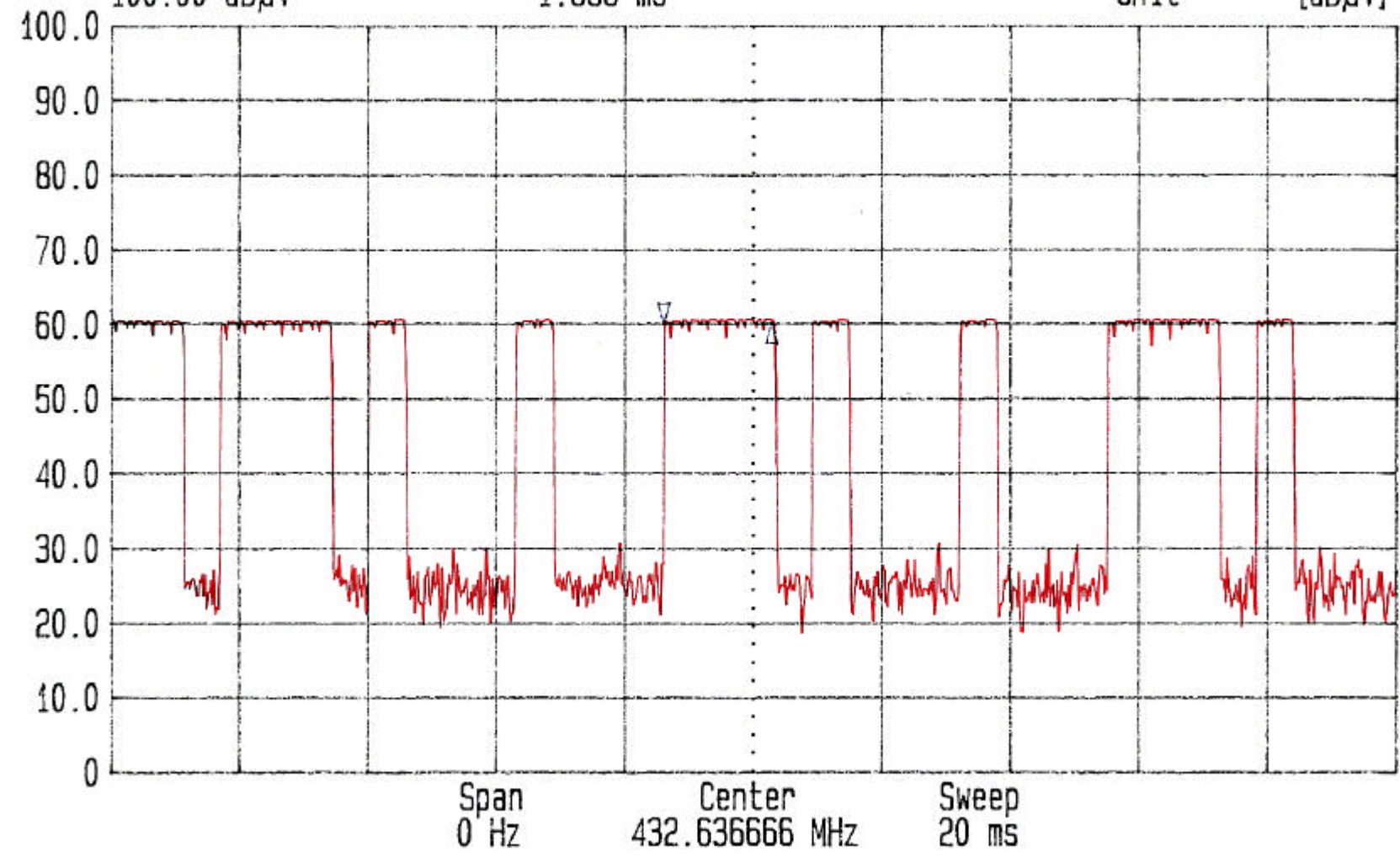
Date 13.Jan.'03 Time 11:11:08
Ref.Lvl 100.00 dB μ V
TRG Delta 0.16 dB
128.177 ms

Res.Bw 120 kHz [imp]
TG.Lvl off
CF.Stp 12.000 kHz
Vid.Bw 300 kHz
RF.Att 10 dB
Unit [dB μ V]



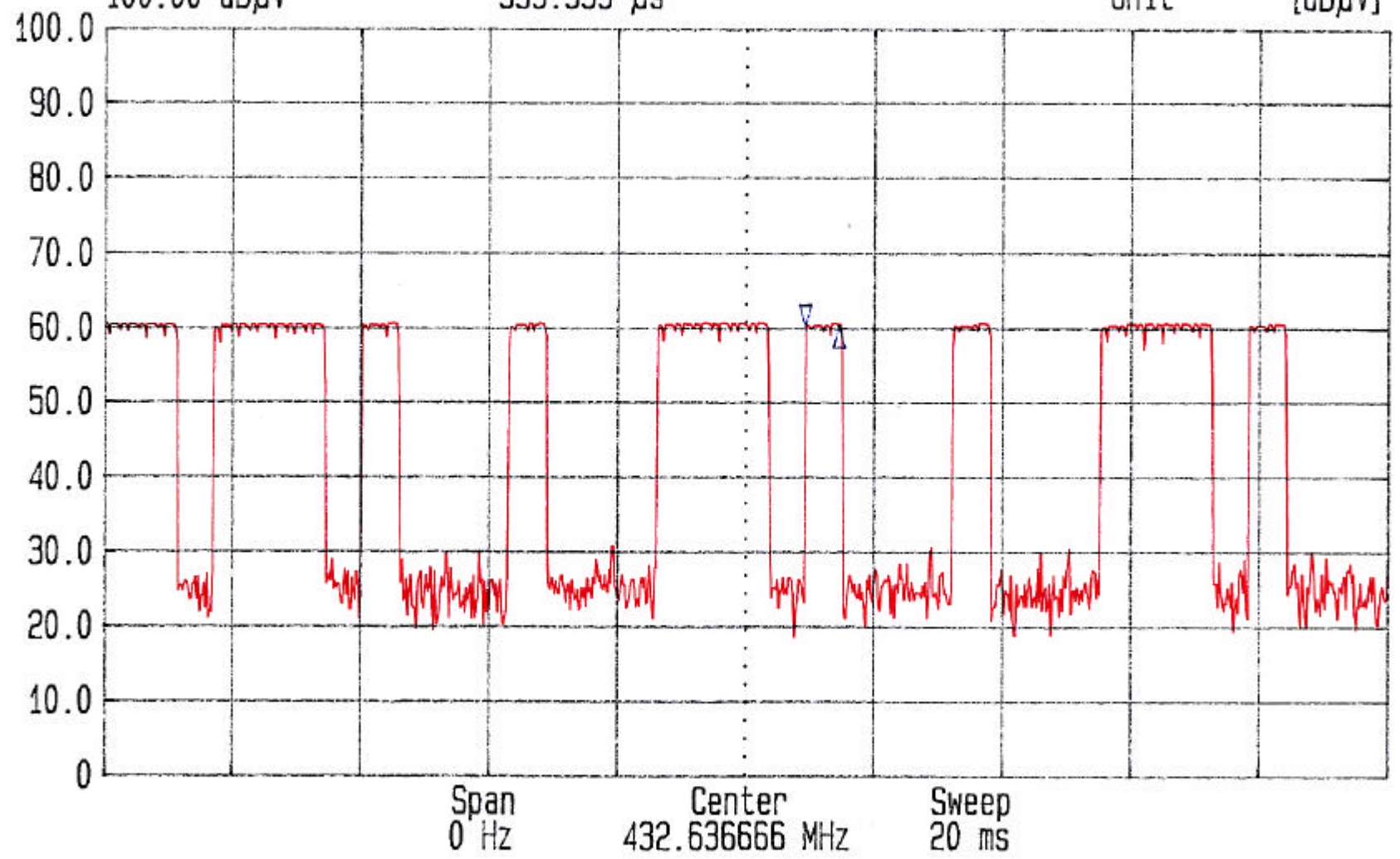


Date 13.Jan.'03 Time 11:17:13 TRG
Ref.Lvl 100.00 dB μ V Delta 0.69 dB
1.688 ms Res.Bw 120 kHz [imp] Vid.Bw 300 kHz
TG.Lvl off CF.Stp 12.000 kHz RF.Att 10 dB
Unit [dB μ V]





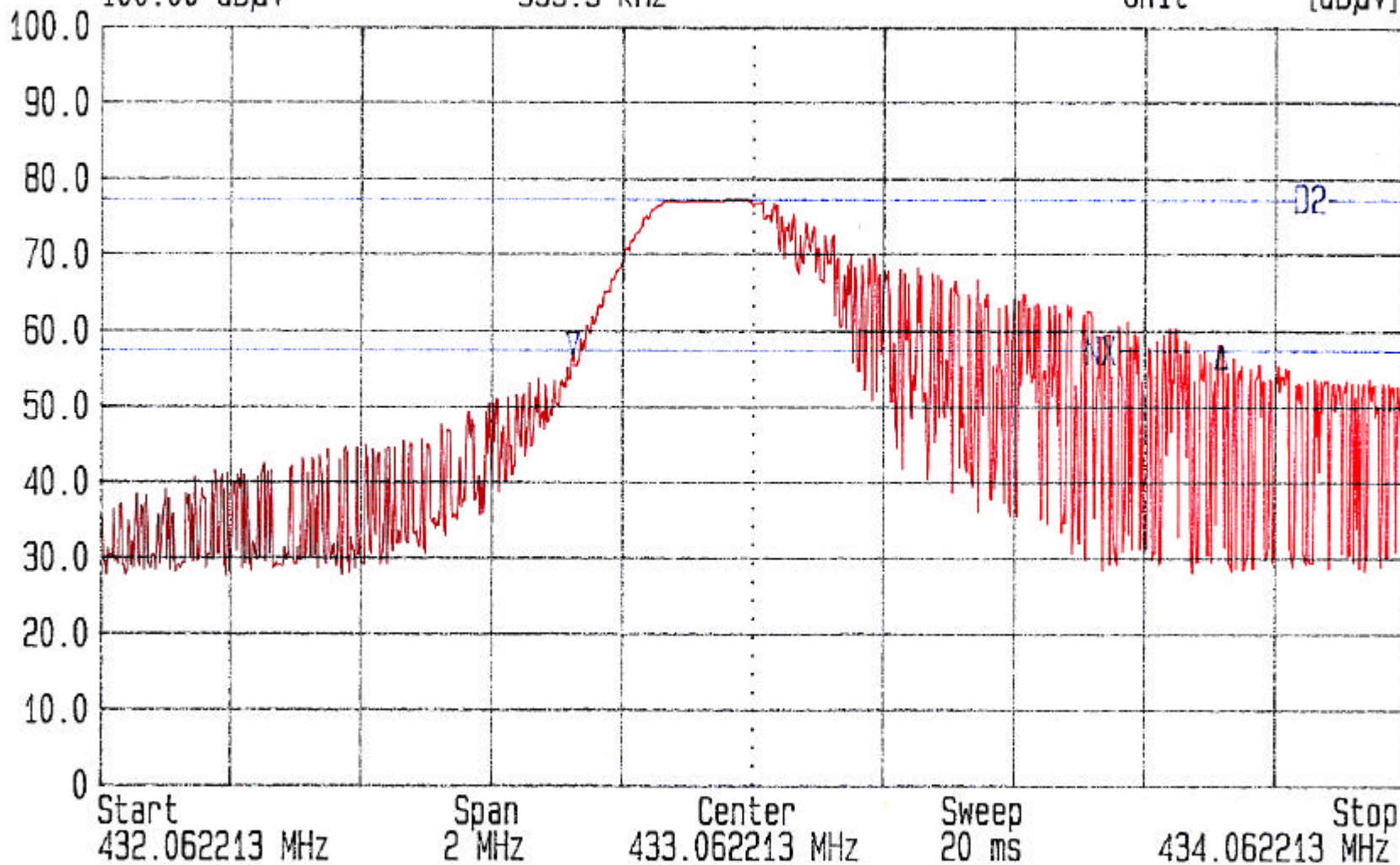
TRG
Date 13.Jan.'03 Time 11:21:05
Ref.Lvl 100.00 dB μ V
Delta 0.13 dB
533.333 μ s
Res.Bw 120 kHz [imp]
TG.Lvl off
CF.Stp 12.000 kHz
Vid.Bw 300 kHz
RF.Att 10 dB
Unit [dB μ V]





Date 13.Jan.'03 Time 10:29:33
Ref.Lvl Delta 1.50 dB
100.00 dB μ V 993.3 kHz

Res.Bw 120 kHz [imp] Vid.Bw 300 kHz
TG.Lvl off
CF.Stp 200.000 kHz RF.Att 10 dB
Unit [dB μ V]



N dB down Level 20.0 dB
DELTA MARK 993.3 kHz

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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 #: 03E0763
Report #: 0763D1
Date & Time: 2003/01/13
Test Engr: DAVID HUNG

Company: Advance Security Inc.
EUT Description: TX553 (433.92 MHz / Car Alarm Transmitter)
Test Configuration : EUT ONLY
Type of Test: FCC 15.231(b)
Mode of Operation: NORMAL MODE

Dist

$$M\% = ((t1+t2+t3+...)/T) * 100\% = 69.12 \%$$

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

$$20 * \log(M\%) = -3.2079$$

	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	433.76	62.66	59.45	18.14	3.19	26.83	53.95	80.83	-26.88	3mV	270	1.00
	867.53	38.74	35.53	24.10	5.05	26.26	38.42	60.83	-22.41	3mV	270	1.20
Y	433.76	77.14	73.93	18.14	3.19	26.83	68.43	80.83	-12.40	3mV	0	1.00
	867.53	47.88	44.67	24.10	5.05	26.26	47.56	60.83	-13.27	3mV	0	1.30
Z	433.77	75.61	72.40	18.14	3.19	26.83	66.90	80.83	-13.93	3mV	90	1.00
	867.47	53.29	50.08	24.10	5.05	26.26	52.97	60.83	-7.86	3mV	90	1.40
X	433.75	68.68	65.47	18.14	3.19	26.83	59.97	80.83	-20.86	3mH	90	1.00
	867.55	44.07	40.86	24.10	5.05	26.26	43.75	60.83	-17.08	3mH	90	1.50
Y	433.73	67.61	64.40	18.14	3.19	26.83	58.90	80.83	-21.93	3mH	180	1.00
	867.45	44.53	41.32	24.10	5.05	26.26	44.21	60.83	-16.62	3mH	180	1.40
Z	433.76	71.50	68.29	18.14	3.19	26.83	62.79	80.83	-18.04	3mH	270	1.10
	867.55	39.65	36.44	24.10	5.05	26.26	39.33	60.83	-21.50	3mH	270	1.30

Peak: RBW= 120KHz
VBW= 300KHz
A(Average): Pk Reading - 3.2079dB

Total Data #12

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UL, CSA, TUV, BSMI, DHHS, NVLAP

No. 199 Chung Sheng Road
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PHONE: 02-2217-0894 FAX: 02-2217-1254

Project #: 03E0763
Report #: 0763D2
Date & Time: 2003/01/13
Test Engr: DAVID HUNG

Company: Advance Security Inc.
EUT Description: TX553 (433.92 MHz / Car Alarm Transmitter)
Test Configuration : EUT ONLY
Type of Test: FCC 15.231(b)
Mode of Operation: NORMAL MODE

• D-Site

$$M\% = ((t1+t2+t3+...)/T) * 100\% = 69.12 \%$$

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

$$20 * \log(M\%) = -3.2079$$

	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	433.78	61.82	58.61	18.14	3.19	26.83	53.11	80.83	-27.72	3mV	90	1.00
	867.59	39.07	35.86	24.10	5.05	26.26	38.75	60.83	-22.08	3mV	90	1.30
Y	433.77	75.54	72.33	18.14	3.19	26.83	66.83	80.83	-14.00	3mV	0	1.00
	867.53	50.60	47.39	24.10	5.05	26.26	50.28	60.83	-10.55	3mV	0	1.20
Z	433.74	76.25	73.04	18.14	3.19	26.83	67.54	80.83	-13.29	3mV	270	1.00
	867.51	54.76	51.55	24.10	5.05	26.26	54.44	60.83	-6.39	3mV	270	1.20
X	433.78	64.85	61.64	18.14	3.19	26.83	56.14	80.83	-24.69	3mH	180	1.00
	867.68	45.09	41.88	24.10	5.05	26.26	44.77	60.83	-16.06	3mH	180	1.50
Y	433.82	74.16	70.95	18.14	3.19	26.83	65.45	80.83	-15.38	3mH	0	1.00
	867.67	43.29	40.08	24.10	5.05	26.26	42.97	60.83	-17.86	3mH	0	1.50
Z	433.81	69.24	66.03	18.14	3.19	26.83	60.53	80.83	-20.30	3mH	270	1.10
	867.65	43.74	40.53	24.10	5.05	26.26	43.42	60.83	-17.41	3mH	270	1.60

Peak: RBW= 120KHz
VBW= 300KHz
A(Average): Pk Reading - 3.2079dB

Total Data #12

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

No. 199 Chung Sheng Road
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PHONE: 02-2217-0894 FAX: 02-2217-1254

Project #: 03E0763
Report #: 0763D3
Date & Time: 2003/01/13
Test Engr: DAVID HUNG

Company: Advance Security Inc.
EUT Description: TX553 (433.92 MHz / Car Alarm Transmitter)
Test Configuration : EUT ONLY
Type of Test: FCC 15.231(b)
Mode of Operation: NORMAL MODE

D-Site

$$M\% = ((t1+t2+t3+\dots)/T) * 100\% = 69.12 \%$$

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

$$20 * \log(M\%) = -3.2079$$

	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	433.74	58.47	55.26	18.14	3.19	26.83	49.76	80.82	-31.06	3mV	90	1.00
	867.42	36.73	33.52	24.10	5.05	26.26	36.41	60.82	-24.41	3mV	90	1.30
Y	433.66	73.45	70.24	18.14	3.19	26.83	64.74	80.83	-16.09	3mV	0	1.00
	867.34	49.84	46.63	24.10	5.05	26.26	49.52	60.83	-11.31	3mV	0	1.30
Z	433.70	75.33	72.12	18.14	3.19	26.83	66.62	80.83	-14.21	3mV	180	1.00
	867.40	50.93	47.72	24.10	5.05	26.26	50.61	60.83	-10.22	3mV	180	1.50
X	433.72	68.68	65.47	18.14	3.19	26.83	59.97	80.83	-20.86	3mH	180	1.00
	867.43	44.23	41.02	24.10	5.05	26.26	43.91	60.83	-16.92	3mH	180	1.70
Y	433.71	68.43	65.22	18.14	3.19	26.83	59.72	80.83	-21.11	3mH	0	1.00
	867.43	43.51	40.30	24.10	5.05	26.26	43.19	60.83	-17.64	3mH	0	1.60
Z	433.69	71.32	68.11	18.14	3.19	26.83	62.61	80.83	-18.22	3mH	90	1.10
	867.39	37.06	33.85	24.10	5.05	26.26	36.74	60.83	-24.09	3mH	90	1.50

Peak: RBW= 120KHz
VBW= 300KHz
A(Average): Pk Reading - 3.2079dB

Total Data #12

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UL, CSA, TUV, BSMI, DHHS, NVLAP

No. 199 Chung Sheng Road
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PHONE: 02-2217-0894 FAX: 02-2217-1254

Project #: 03E0763
Report #: 0763D4
Date & Time: 2003/01/13
Test Engr: DAVID HUNG

Company: Advance Security Inc.
EUT Description: TX553 (433.92 MHz / Car Alarm Transmitter)
Test Configuration : EUT ONLY
Type of Test: FCC 15.231(b)
Mode of Operation: NORMAL MODE

D-Site

$$M\% = ((t1+t2+t3+...)/T) * 100\% = 69.12 \%$$

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

$$20 * \log(M\%) = -3.2079$$

	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	433.79	58.04	54.83	18.14	3.19	26.83	49.33	80.83	-31.50	3mV	0	1.00
	867.604	39.86	36.65	24.10	5.05	26.26	39.54	60.83	-21.29	3mV	0	1.30
Y	433.73	72.97	69.76	18.14	3.19	26.83	64.26	80.83	-16.57	3mV	180	1.00
	867.48	48.01	44.80	24.10	5.05	26.26	47.69	60.83	-13.14	3mV	180	1.30
Z	433.76	75.10	71.89	18.14	3.19	26.83	66.39	80.83	-14.44	3mV	270	1.00
	867.52	52.17	48.96	24.10	5.05	26.26	51.85	60.83	-8.98	3mV	270	1.40
X	433.79	63.50	60.29	18.14	3.19	26.83	54.79	80.83	-26.04	3mH	0	1.00
	867.60	45.01	41.80	24.10	5.05	26.26	44.69	60.83	-16.14	3mH	0	1.50
Y	433.78	73.38	70.17	18.14	3.19	26.83	64.67	80.83	-16.16	3mH	180	1.00
	867.57	45.98	42.77	24.10	5.05	26.26	45.66	60.83	-15.17	3mH	180	1.60
Z	433.77	68.22	65.01	18.14	3.19	26.83	59.51	80.83	-21.32	3mH	270	1.10
	867.56	45.19	41.98	24.10	5.05	26.26	44.87	60.83	-15.96	3mH	270	1.40

Peak: RBW= 120KHz
VBW= 300KHz
A(Average): Pk Reading - 3.2079dB

Total Data #12

C&C Laboratory CO., LTD.

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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 #: 03E0763
Report #: 0763D5
Date & Time: 2003/01/13
Test Engr: DAVID HUNG

Company: Advance Security Inc.
EUT Description: TX553 (433.92 MHz / Car Alarm Transmitter)
Test Configuration : EUT ONLY
Type of Test: FCC 15.231(b)/FCC 15.209
Mode of Operation: NORMAL MODE

D-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)
1300	49.85	46.642	24.9	3.6	37.07	38.03	54.0	-15.97	3mV	0	1.0	A
1727	53.95	50.742	26.3	4.4	36.48	44.99	60.8	-15.84	3mV	0	1.0	A
2168	45.72	42.512	27.7	4.5	36.07	38.68	60.8	-22.12	3mV	0	1.0	A
2603	45.23	42.022	28.8	5.6	36.02	40.46	60.8	-20.34	3mV	0	1.0	A
3039	43.86	40.652	30.4	5.8	36.06	40.78	60.8	-20.02	3mV	0	1.0	A
3471	41.92	38.712	31.3	6.1	35.64	40.45	60.8	-20.38	3mV	0	1.0	A
3905	41.33	38.122	32.3	6.7	35.21	41.87	54.0	-12.13	3mV	0	1.0	A
4339	40.28	37.072	32.4	7.1	35.17	41.40	54.0	-12.60	3mV	0	1.0	A

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

Total data #8
V.2d

P(Peak): RBW=VBW=1MHz
A(Average): Pk Reading - 3.2079dB(For FCC 15.231(b))

C&C Laboratory CO., LTD.

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

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Project #: 03E0763
Report #: 0763D6
Date & Time: 2003/01/13
Test Engr: DAVID HUNG

Company: Advance Security Inc.
EUT Description: TX553 (433.92 MHz / Car Alarm Transmitter)
Test Configuration : EUT ONLY
Type of Test: FCC 15.231(b)/FCC 15.209
Mode of Operation: NORMAL MODE

D-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)
1301	54.68	51.472	24.9	3.6	37.07	42.87	54.0	-11.13	3mH	0	1.0	A
1735	49.31	46.102	26.4	4.4	36.47	40.44	60.8	-20.39	3mH	0	1.0	A
2169	49.41	46.202	27.7	4.5	36.07	42.37	60.8	-18.43	3mH	0	1.0	A
2603	45.96	42.752	28.8	5.6	36.02	41.19	60.8	-19.61	3mH	0	1.0	A
3036	43.03	39.822	30.4	5.8	36.07	39.93	60.8	-20.87	3mH	0	1.0	A
3474	41.94	38.732	31.3	6.1	35.64	40.48	60.8	-20.35	3mH	0	1.0	A
3904	41.33	38.122	32.3	6.7	35.21	41.87	54.0	-12.13	3mH	0	1.0	A
4339	40.03	36.822	32.4	7.1	35.17	41.15	54.0	-12.85	3mH	0	1.0	A

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

Total data #8
V.2d

P(Peak): RBW=VBW=1MHz
A(Average): Pk Reading - 3.2079dB(For FCC 15.231(b))