FCC ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT CERTIFICATION TO FCC PART 15 REQUIREMENTS

for

INTENTIONAL RADIATOR

of

Car Alarm Transmitter

FCC ID Number	**:** H5OT21
Trade Name	**:** Advance Security Inc.
Model Number	**:** TX556
Agency Series	**:** N/A
Report Number	**:** C31202603-RP
Date	**:** December 3, 2003

Prepared for：

Advance Security Inc.

3F, 48 Ta An Street, Hsi Chih,

Taipei Hsien, Taiwan, R.O.C.

Prepared by：

Compliance Certification Services Inc.

No. 165, Chung Sheng Road, Hsin Tien City,

Taipei, Taiwan, R. O. C.

TEL: (02)2217-0894

FAX: (02)2217-1029

Lab. Code: 200617-0

TABLE OF CONTENTS

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	: TX556
FCC ID	: H5OT21
DATE TESTED	: December 2, 2003 & December 3, 2003
REPORT NUMBER	: C31202603-RP

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 Compliance Certification Services Inc. 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 Compliance Certification Services Inc. will constitute fraud and shall nullify the document.

Vince Chiang

Vince Chiang / Supervisor
Compliance Certification Services Inc.

2. PRODUCT DESCRIPTION

Fundamental Frequency	**433.92 MHz**
Power Source	**3V Battery**
Transmitting Time	**Periodic ≤ 5 seconds**
Associated Receiver	**Model: H5OTR06AM (FCC ID)**

3. TEST FACILITY

The open area test sites and conducted measurement facilities used to collect the radiated data are located at No. 165 & 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
SCHAFFNER	SCR3501	MEASURE RECEIVER	06/16/04
ADVANTEST	R3132	SPECTRUM ANALYZER	09/07/04
SCHAFFNER	CBL 6112B	ANTENNA	09/27/04
BELDEN	9913	CABLE	10/10/04
SCHAFFNER	CPA9231A	PRE-AMPLIFIER	10/10/04
CCS	N/A	Site NSA	09/29/04
EMCO	3115	ANTENNA (1-18GHz)	02/24/04
HP	8449B	AMPLIFIER (1-26.5GHz)	02/20/04
JYEBAO	LL143	CABLE (1-18GHz)	02/20/04
JYEBAO	LL142	CABLE (1-18GHz)	02/20/04
HP	8566B	EMC ANALYZER (100Hz-22GHz)	06/25/04

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)

Test Set-up for frequency range 30 – 1000 MHz

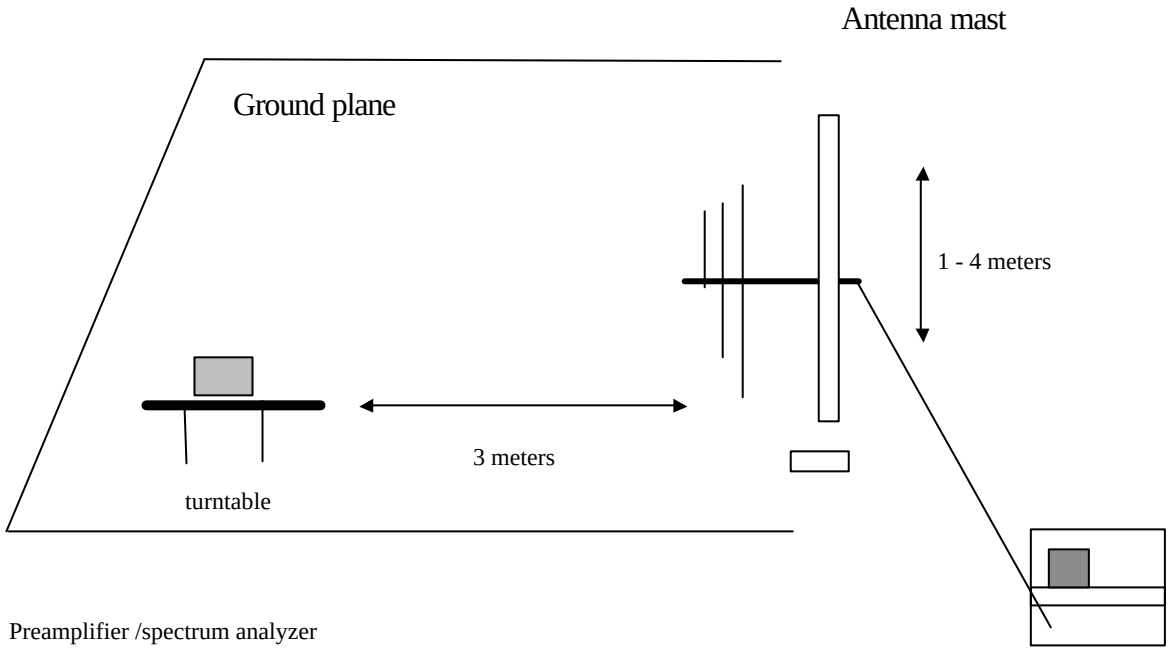


Fig. 1

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.

Test set-up for measurements above 1GHz

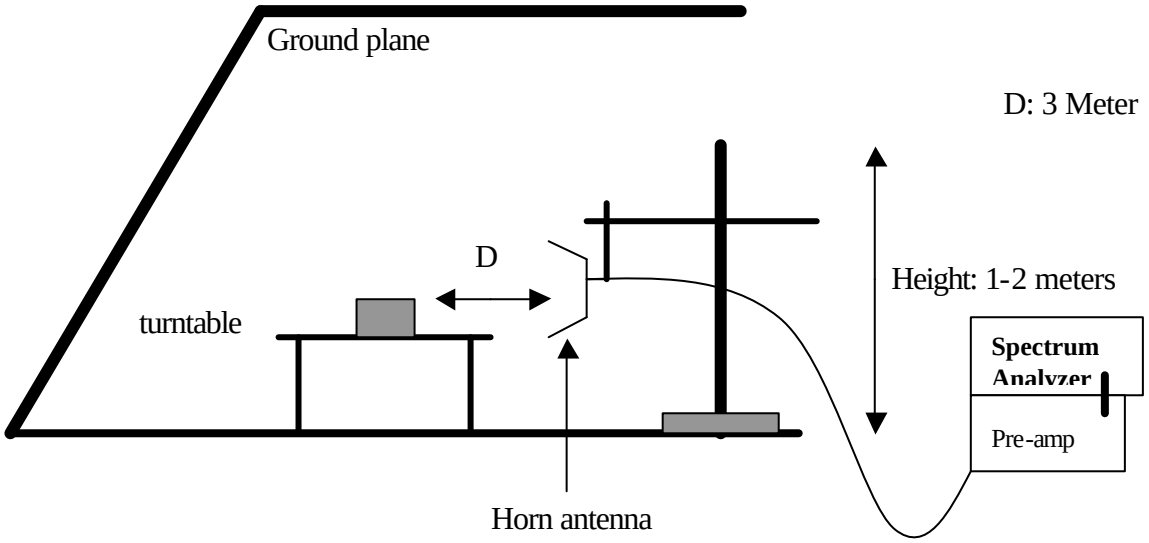


Fig. 2

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:

Average Reading = Peak Reading (dBuV/m)+ 20log (Duty Cycle)

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

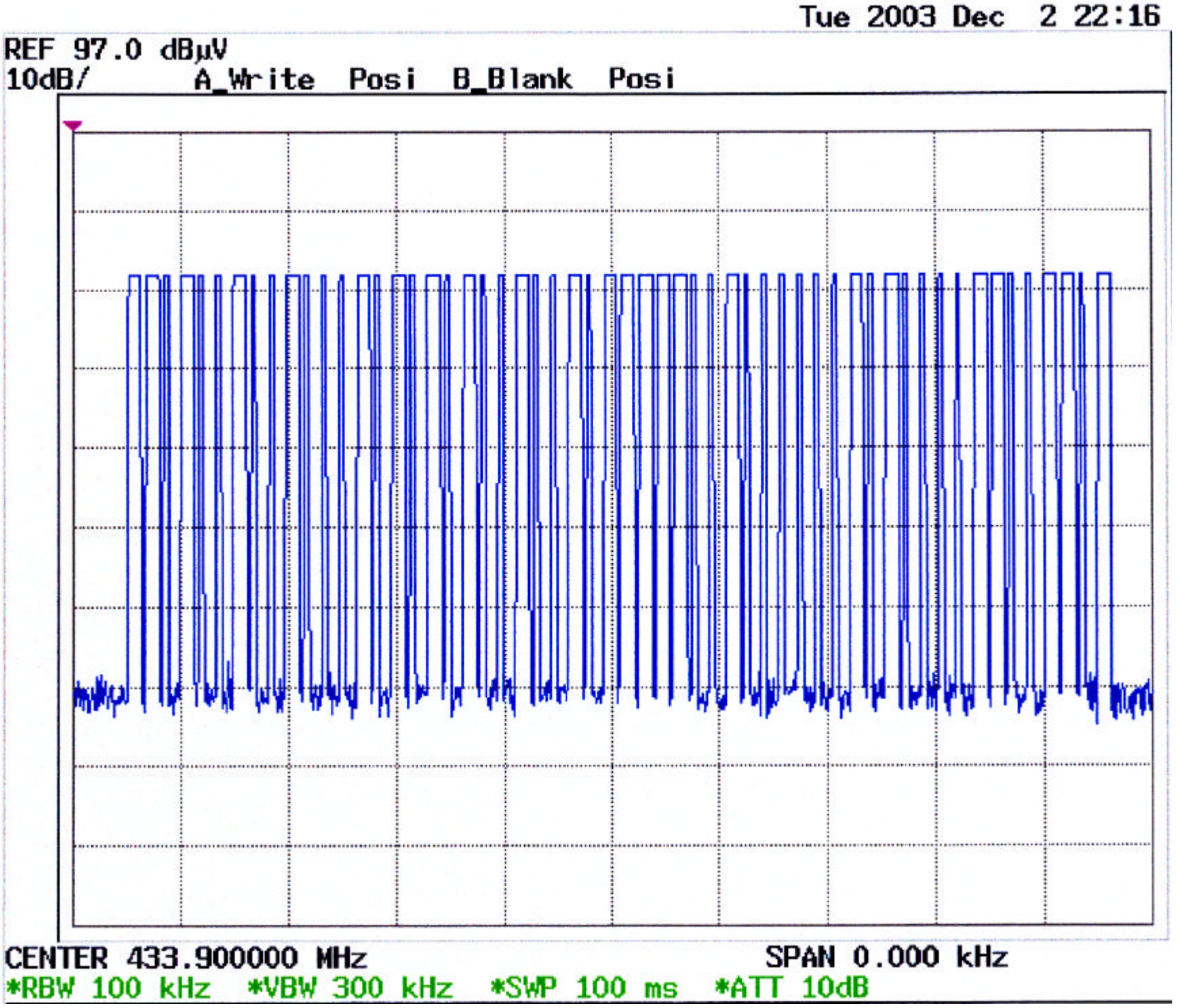
WHERE 1 Period = 101.4 mS >100 mS. use 100 mS for calculation
Long pulse = 1.14 mS
Short pulse = 0.34 mS
No of Long pulse = 24
No of Short pulse = 32

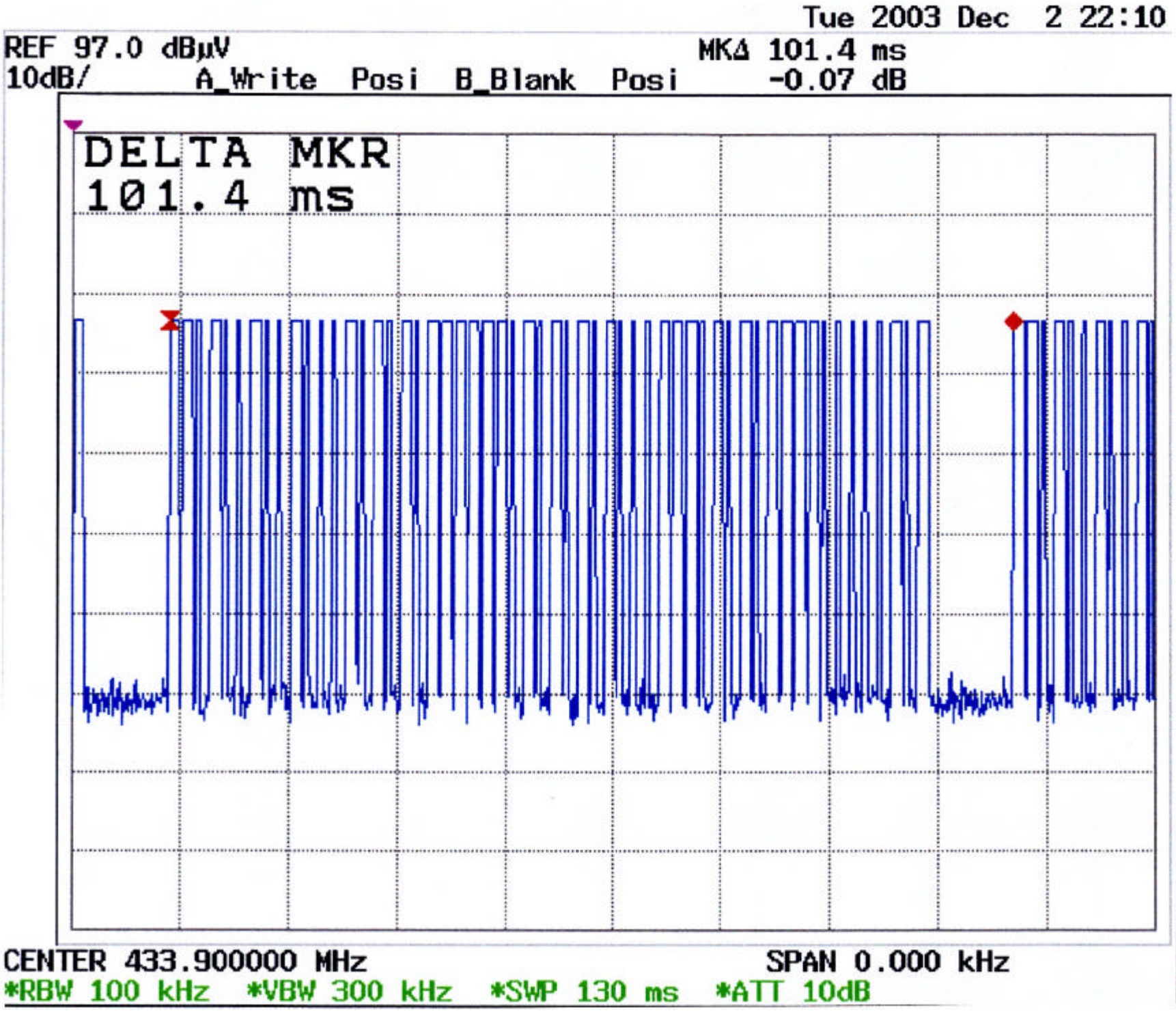
Duty Cycle = (N1L1+N2L2+…+Nn-1Ln-1+NnLn)/100 or T
Duty Cycle = [(24x1.14)+(32x0.34)]/100 = 0.3824 = 38.24 % or -8.3496dB

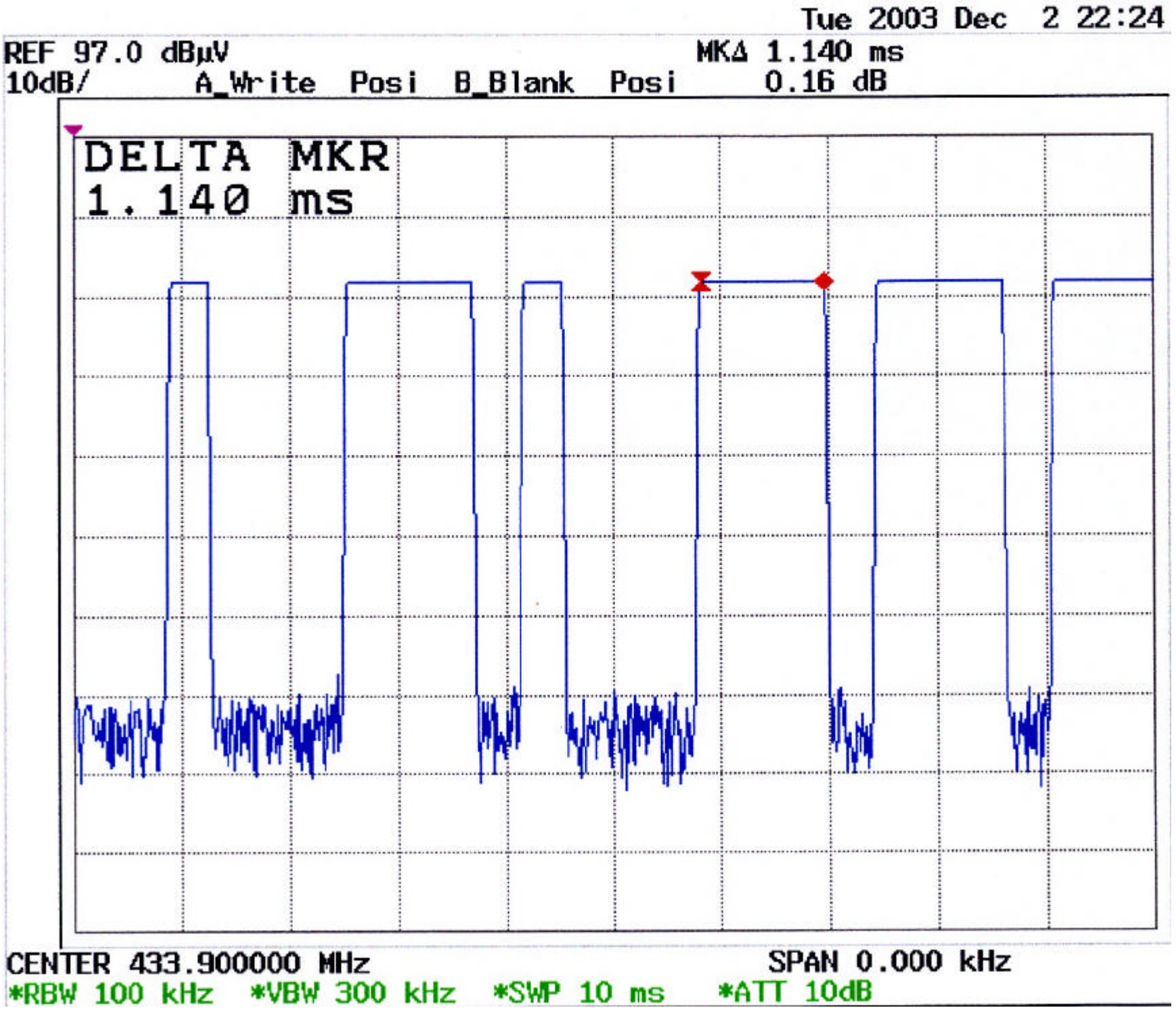
12.2 The Emissions Bandwidth

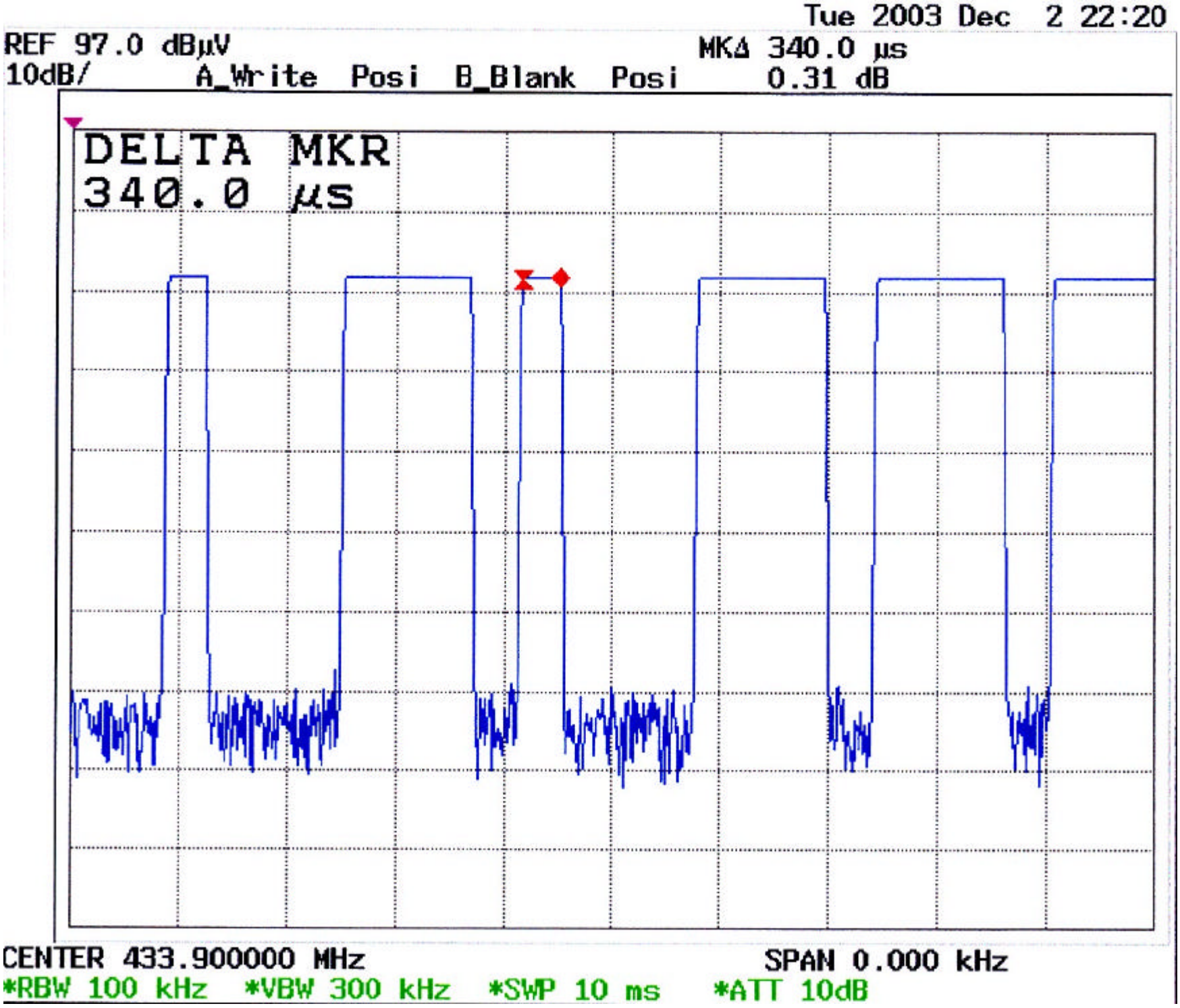
The bandwidth of the emissions were investigated per 15.231(c)

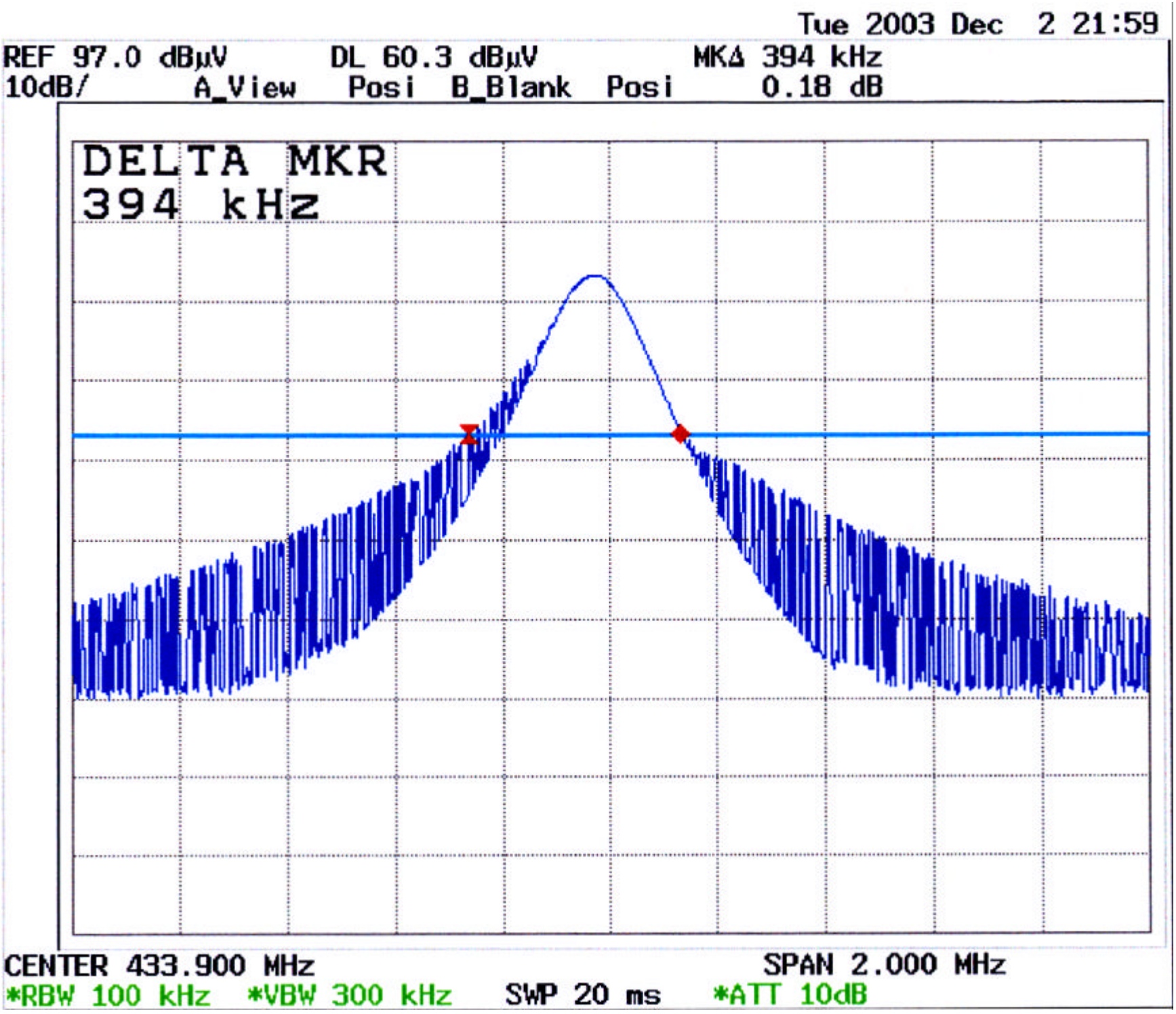
Center Frequency	Measured	Limits
433.92 MHz	**394.0 kHz < (refer to plot)**	**433.92 MHzX0.25%=1084.8 kHz**


Tue 2003 Dec 2 22:16
REF 97.0 dBµV
10dB/ A_Write Posi B_Blank Posi
CENTER 433.900000 MHz
SPAN 0.000 kHz
*RBW 100 kHz *VBW 300 kHz *SWP 100 ms *ATT 10dB


Tue 2003 Dec 2 22:10
REF 97.0 dBµV
MKΔ 101.4 ms
10dB/ A_Write Posi B_Blank Posi -0.07 dB
DELTA MKR
101.4 ms
CENTER 433.900000 MHz
SPAN 0.000 kHz
*RBW 100 kHz *VBW 300 kHz *SWP 130 ms *ATT 10dB


Tue 2003 Dec 2 22:24
REF 97.0 dBµV
MKΔ 1.140 ms
10dB/ A_Write Posi B_Blank Posi 0.16 dB
DELTA MKR
1.140 ms
CENTER 433.900000 MHz
SPAN 0.000 kHz
*RBW 100 kHz *VBW 300 kHz *SWP 10 ms *ATT 10dB


Tue 2003 Dec 2 22:20
REF 97.0 dBµV
MKΔ 340.0 µs
10dB/ A_Write Posi B_Blank Posi 0.31 dB
DELTA MKR
340.0 µs
CENTER 433.900000 MHz
SPAN 0.000 kHz
*RBW 100 kHz *VBW 300 kHz *SWP 10 ms *ATT 10dB


Tue 2003 Dec 2 21:59
REF 97.0 dBµV
DL 60.3 dBµV
MKΔ 394 kHz
10dB/ A_View Posi B_Blank Posi 0.18 dB
DELTA MKR
394 kHz
CENTER 433.900 MHz
SPAN 2.000 MHz
*RBW 100 kHz *VBW 300 kHz SWP 20 ms *ATT 10dB

Compliance Certification Services Inc.

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

No. 165, Chung Sheng Road,
Hsin Tien City, Taipei, Taiwan, R.O.C.
TEL: 02-2217-0894 FAX: 02-2217-1029

Project #:	C31202603
Report #:	C31202603-RP
Date:	2003/12/03
Test Engr:	JIMMY CHEN

Company:	ADVANCE SECURITY INC.
EUT Description:	TX-556 (433.92MHz / Car Alarm Transmitter)
Test Configuration :	EUT ONLY
Type of Test:	FCC 15.231(b)/FCC 15.209
Mode of Operation:	Normal Mode

J-Site

M% = ((t1+t2+t3+…)/T) * 100% = **38.24 %**

Av Reading = Pk Reading + 20*log(M%)

20*log(M%) = **-8.3496**

	Freq.	Pk Rdg	Av Rdg	AF/AT	Closs	Pre-amp	Level	Limit	Margin	Pol	Az	Height
	(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	FCC_B	(dB)	(H/V)	(Deg)	(Meter)
	Button #1:											
X	433.88	53.67	45.32	27.12	3.28	29.68	46.04	80.82	-34.78	3mV	90	1.00
	867.75	33.45	25.10	32.74	5.02	28.79	34.07	60.82	-26.75	3mV	180	1.10
Y	433.85	57.68	49.33	27.12	3.28	29.68	50.05	80.82	-30.77	3mV	270	1.40
	867.74	35.17	26.82	32.74	5.02	28.79	35.79	60.82	-25.03	3mV	0	1.30
Z	433.81	56.67	48.32	27.12	3.28	29.68	49.04	80.82	-31.78	3mV	180	1.30
	867.70	35.24	26.89	32.74	5.02	28.79	35.86	60.82	-24.96	3mV	0	1.50
X	433.86	53.95	45.60	27.12	3.28	29.68	46.32	80.82	-34.50	3mH	270	1.30
	867.74	35.75	27.40	32.74	5.02	28.79	36.37	60.82	-24.45	3mH	0	1.50
Y	433.93	56.65	48.30	27.12	3.28	29.68	49.02	80.82	-31.80	3mH	270	1.30
	867.74	39.96	31.61	32.74	5.02	28.79	40.58	60.82	-20.24	3mH	90	1.40
Z	433.91	59.36	51.01	27.12	3.28	29.68	51.73	80.82	-29.09	3mH	180	1.10
	867.82	36.97	28.62	32.74	5.02	28.79	37.59	60.82	-23.23	3mH	0	1.10

AF/AT=AF+6dB(ATTENUATOR)
Peak: RBW= 100KHz
VBW= 300KHz
A(Average): Pk Reading - 8.3496dB

Total Data #12

Compliance Certification Services Inc.

FCC, VCCI, CISPR, CE, AUSTEL, NZ
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Mode of Operation:	Normal Mode

J-Site

M% = ((t1+t2+t3+…)/T) * 100% = **38.24 %**

Av Reading = Pk Reading + 20*log(M%)

20*log(M%) = **-8.3496**

	Freq.	Pk Rdg	Av Rdg	AF/AT	Closs	Pre-amp	Level	Limit	Margin	Pol	Az	Height
	(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	FCC_B	(dB)	(H/V)	(Deg)	(Meter)
	Button #2:											
X	433.92	63.85	55.50	27.12	3.28	29.68	56.22	80.82	-24.60	3mV	180	1.00
	867.77	35.53	27.18	32.74	5.02	28.79	36.15	60.82	-24.67	3mV	180	1.10
Y	433.89	57.65	49.30	27.12	3.28	29.68	50.02	80.82	-30.80	3mV	90	1.10
	867.79	32.85	24.50	32.74	5.02	28.79	33.47	60.82	-27.35	3mV	180	1.30
Z	433.87	60.18	51.83	27.12	3.28	29.68	52.55	80.82	-28.27	3mV	270	1.40
	867.73	34.16	25.81	32.74	5.02	28.79	34.78	60.82	-26.04	3mV	0	1.00
X	433.88	59.97	51.62	27.12	3.28	29.68	52.34	80.82	-28.48	3mH	180	1.30
	867.76	31.85	23.50	32.74	5.02	28.79	32.47	60.82	-28.35	3mH	0	1.10
Y	433.89	58.97	50.62	27.12	3.28	29.68	51.34	80.82	-29.48	3mH	0	1.30
	867.81	40.25	31.90	32.74	5.02	28.79	40.87	60.82	-19.95	3mH	90	1.50
Z	433.91	57.18	48.83	27.12	3.28	29.68	49.55	80.82	-31.27	3mH	270	1.10
	867.83	30.15	21.80	32.74	5.02	28.79	30.77	60.82	-30.05	3mH	0	1.00

AF/AT=AF+6dB(ATTENUATOR)
Peak: RBW= 100KHz
VBW= 300KHz
A(Average): Pk Reading - 8.3496dB

Total Data #12

Compliance Certification Services Inc.

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

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Test Configuration :	EUT ONLY
Type of Test:	FCC 15.231(b)/FCC 15.209
Mode of Operation:	Normal Mode

J-Site

M% = ((t1+t2+t3+…)/T) * 100% = **38.24 %**

Av Reading = Pk Reading + 20*log(M%)

20*log(M%) = **-8.3496**

	Freq.	Pk Rdg	Av Rdg	AF/AT	Closs	Pre-amp	Level	Limit	Margin	Pol	Az	Height
	(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	FCC_B	(dB)	(H/V)	(Deg)	(Meter)
	Button #3:											
X	433.90	58.65	50.30	27.12	3.28	29.68	51.02	80.82	-29.80	3mV	0	1.50
	867.74	33.97	25.62	32.74	5.02	28.79	34.59	60.82	-26.23	3mV	180	1.10
Y	433.90	62.35	54.00	27.12	3.28	29.68	54.72	80.82	-26.10	3mV	270	1.10
	867.76	36.98	28.63	32.74	5.02	28.79	37.60	60.82	-23.22	3mV	0	1.20
Z	433.86	59.18	50.83	27.12	3.28	29.68	51.55	80.82	-29.27	3mV	0	1.00
	867.77	35.64	27.29	32.74	5.02	28.79	36.26	60.82	-24.56	3mV	180	1.00
X	433.84	64.96	56.61	27.12	3.28	29.68	57.33	80.82	-23.49	3mH	270	1.10
	867.71	37.36	29.01	32.74	5.02	28.79	37.98	60.82	-22.84	3mH	0	1.10
Y	433.89	66.98	58.63	27.12	3.28	29.68	59.35	80.82	-21.47	3mH	90	1.30
	867.76	34.75	26.40	32.74	5.02	28.79	35.37	60.82	-25.45	3mH	90	1.20
Z	433.89	69.36	61.01	27.12	3.28	29.68	61.73	80.82	-19.09	3mH	0	1.00
	867.78	39.78	31.43	32.74	5.02	28.79	40.40	60.82	-20.42	3mH	180	1.10

AF/AT=AF+6dB(ATTENUATOR)
Peak: RBW= 100KHz
VBW= 300KHz
A(Average): Pk Reading - 8.3496dB

Total Data #12

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

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J-Site

M% = ((t1+t2+t3+…)/T) * 100% = **38.24 %**

Av Reading = Pk Reading + 20*log(M%)

20*log(M%) = **-8.3496**

	Freq.	Pk Rdg	Av Rdg	AF/AT	Closs	Pre-amp	Level	Limit	Margin	Pol	Az	Height
	(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	FCC_B	(dB)	(H/V)	(Deg)	(Meter)
	Button #4:											
X	433.88	64.98	56.63	27.12	3.28	29.68	57.35	80.82	-23.47	3mV	270	1.10
	867.71	35.68	27.33	32.74	5.02	28.79	36.30	60.82	-24.52	3mV	180	1.10
Y	433.91	62.35	54.00	27.12	3.28	29.68	54.72	80.82	-26.10	3mV	180	1.10
	867.77	36.98	28.63	32.74	5.02	28.79	37.60	60.82	-23.22	3mV	360	1.20
Z	433.91	63.78	55.43	27.12	3.28	29.68	56.15	80.82	-24.67	3mV	90	1.40
	867.73	32.49	24.14	32.74	5.02	28.79	33.11	60.82	-27.71	3mV	0	1.20
X	433.85	64.98	56.63	27.12	3.28	29.68	57.35	80.82	-23.47	3mH	180	1.30
	867.69	49.62	41.27	32.74	5.02	28.79	50.24	60.82	-10.58	3mH	0	1.10
Y	433.92	60.87	52.52	27.12	3.28	29.68	53.24	80.82	-27.58	3mH	360	1.30
	867.73	38.67	30.32	32.74	5.02	28.79	39.29	60.82	-21.53	3mH	90	1.10
Z	433.84	66.98	58.63	27.12	3.28	29.68	59.35	80.82	-21.47	3mH	270	1.00
	867.64	40.12	31.77	32.74	5.02	28.79	40.74	60.82	-20.08	3mH	180	1.50

AF/AT=AF+6dB(ATTENUATOR)
Peak: RBW= 100KHz
VBW= 300KHz
A(Average): Pk Reading - 8.3496dB

Total Data #12

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FCC, VCCI, CISPR, CE, AUSTEL, NZ
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Mode of Operation:	Normal Mode

J-Site

M% = ((t1+t2+t3+…)/T) * 100% = **38.24 %**

Av Reading = Pk Reading + 20*log(M%)

20*log(M%) = **-8.3496**

	Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	AF/AT (dB)	Closs (dB)	Pre-amp (dB)	Level (dBuV/m)	Limit FCC_B	Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)
	Button #5:											
X	433.91	69.78	61.43	27.12	3.28	29.68	62.15	80.82	-18.67	3mV	0	1.20
	867.71	31.58	23.23	32.74	5.02	28.79	32.20	60.82	-28.62	3mV	180	1.10
Y	433.87	54.68	46.33	27.12	3.28	29.68	47.05	80.82	-33.77	3mV	270	1.10
	867.74	34.68	26.33	32.74	5.02	28.79	35.30	60.82	-25.52	3mV	0	1.50
Z	433.90	68.15	59.80	27.12	3.28	29.68	60.52	80.82	-20.30	3mV	90	1.40
	867.76	30.48	22.13	32.74	5.02	28.79	31.10	60.82	-29.72	3mV	0	1.00
X	433.87	67.65	59.30	27.12	3.28	29.68	60.02	80.82	-20.80	3mH	180	1.20
	867.79	38.63	30.28	32.74	5.02	28.79	39.25	60.82	-21.57	3mH	0	1.10
Y	433.88	70.65	62.30	27.12	3.28	29.68	63.02	80.82	-17.80	3mH	270	1.50
	867.81	34.85	26.50	32.74	5.02	28.79	35.47	60.82	-25.35	3mH	90	1.10
Z	433.95	68.79	60.44	27.12	3.28	29.68	61.16	80.82	-19.66	3mH	90	1.00
	867.75	35.85	27.50	32.74	5.02	28.79	36.47	60.82	-24.35	3mH	0	1.10

AF/AT=AF+6dB(ATTENUATOR)
Peak: RBW= 100KHz
VBW= 300KHz
A(Average): Pk Reading - 8.3496dB

Total Data #12

Compliance Certification Services Inc.

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

No. 165, Chung Sheng Road,
Hsin Tien City, Taipei, Taiwan, R.O.C.
TEL: 02-2217-0894 FAX: 02-2217-1029

Project #:	C31202603
Report #:	C31202603-RP
Date:	2003/12/03
Test Engr:	JIMMY CHEN

Company:	ADVANCE SECURITY INC.
EUT Description:	TX-556 (433.92MHz / Car Alarm Transmitter)
Test Configuration :	EUT ONLY
Type of Test:	FCC 15.231(b)/FCC 15.209
Mode of Operation:	Normal Mode

J-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	**51.90**	**43.55**	**25.19**	**4.75**	**32.04**	**41.45**	**54.00**	**-12.55**	**3mV**	**0**	**1.3**	**A**
1736	**52.30**	**43.95**	**26.43**	**5.58**	**32.76**	**43.20**	**60.82**	**-17.62**	**3mV**	**90**	**1.2**	**A**
2170	**47.50**	**39.15**	**27.76**	**6.25**	**33.15**	**40.01**	**60.82**	**-20.81**	**3mV**	**270**	**1.0**	**A**
2604	**46.40**	**38.05**	**28.91**	**6.77**	**33.18**	**40.55**	**60.82**	**-20.27**	**3mV**	**0**	**1.1**	**A**
1302	**61.30**	**52.95**	**25.19**	**4.75**	**32.04**	**50.85**	**54.00**	**-3.15**	**3mH**	**180**	**1.1**	**A**
1736	**53.90**	**45.55**	**26.43**	**5.58**	**32.76**	**44.80**	**60.82**	**-16.02**	**3mH**	**0**	**1.2**	**A**
2170	**47.80**	**39.45**	**27.76**	**6.25**	**33.15**	**40.31**	**60.82**	**-20.51**	**3mH**	**270**	**1.0**	**A**
2604	**47.63**	**39.28**	**28.91**	**6.77**	**33.18**	**41.78**	**60.82**	**-19.04**	**3mH**	**0**	**1.5**	**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 -8.3496dB