

APPLICANT

X-10 (USA), Inc.
91 Ruckman Road
Closter, NJ 07624-0420

MANUFACTURER

X-10 Electronics Shenzhen Co. Ltd.
X-10 Building
Labour Industrial District
Shenzhen, Xixiang, Bao An
Guang Dong, China, 518102

TEST SPECIFICATION: FCC Rules and Regulations Part 15, Subpart C, Para. 15.231

TEST PROCEDURE: ANSI C63.4:1992

TEST SAMPLE DESCRIPTION

BRANDNAME: X-10 (USA), Inc. MODEL: XC14A

TYPE: Pulsed Transmitter

POWER REQUIREMENTS: 12 VDC derived from an AC Adapter

FREQUENCY OF OPERATION: 310 MHz

TESTS PERFORMED

Para. 15.207(a), Conducted Emissions

Para. 15.231(a), Radiated Emissions, Fundamental and Harmonics

Para. 15.231(b), Radiated Emissions, Spurious Case

Para. 15.231(c), Occupied Bandwidth

REPORT OF MEASUREMENTS

Applicant: X-10 (USA), Inc.
Device: Pulsed Transmitter
FCC ID: B4SXC14A
Power Requirements: 12 VDC derived from an AC Adapter
Applicable Rule Section: Part 15, Subpart C, Section 15.231

**Retlif Testing Laboratories**

Test Report No. R-8885-1A

FCC ID: B4SXC14A

REPORT OF MEASUREMENTS (continued)

TEST RESULTS

- 15.207(a): The radio frequency voltage that was conducted back on to the AC power line on any frequency/frequencies within the bandwidth of 450kHz to 30MHz did not exceed 250 microvolts.
- 15.231 (a): This device is used as a Passive Infrared Sensor which sends a remote control signal to a remote chime when motion is detected.
- 15.231 (a)(1) & 15.231(a)(2): The transmitter is automatically operated and ceases transmission within 5 seconds after deactivation.
- 15.231 (a)(3): The transmitter does not perform periodic transmissions.
- 15.231 (b): The fundamental field strength did not exceed 5833 $\mu\text{V/M}$ (Average) at a test distance of 3 meters. In addition, the requirements of section 15.35 for averaging pulsed emissions and for limiting peak emissions were met.
- The field strength of harmonic and spurious emissions did not exceed 583 $\mu\text{V/M}$ (AVERAGE).

DETERMINATION OF FIELD STRENGTH LIMITS

The field strength limits shown below are found in Section 15.231.

Frequency			Limit		
F1	=	260	3750	=	L1
Fo	=	433.92			Lo
F2	=	470	12500	=	L2

The formula below was utilized to determine the limits:

$$\text{Limit} = L1 + [(Fo-F1)(L2-L1)/(F2-F1)]$$

Solving yields:

Fundamental Limit = 5833 $\mu\text{V/M}$ (AVERAGE) @ 3 Meters

Harmonic Limit = 583 $\mu\text{V/M}$ (AVERAGE) @ 3 Meters



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Test Report No. R-8885-1A

FCC ID: B4SXC14A

REPORT OF MEASUREMENTS (continued)

DUTY CYCLE DETERMINATION

The unit's RF output was directly coupled to the input of the spectrum analyzer. The analyzer was set for a frequency span of 0Hz. The sweep time was then adjusted in order to display one full pulse train. The transmitter on time was then summed and compared to the time for one full cycle in order to obtain the duty cycle.(See plots for additional information)

Transmitter On Time = 31.34 milliseconds (maximum- worst case in 100 ms)

Transmitter Cycle Time = > 100 milliseconds (107 msec)

Transmitter Duty Cycle = 31.34 %

CALCULATION:

1 Large Pulse = 9.333 milliseconds

33 x 667 μ s (small pulse) = 22.001 milliseconds

9.333 + 22.001 = 31.34 milliseconds

Duty Cycle = 31.34 %

Correction Factor = $20 \log(0.248)$ = -10.1

SPECTRUM ANALYZER DESENSITIZATION CONSIDERATIONS

Due to the nature of the emissions being measured, care was taken to ensure that the resolution bandwidth of the spectrum analyzer was adequate to provide accurate measurements. The following formula was utilized:

Setting pulse desensitization equal to zero and utilizing the minimum observed pulse width of 20 μ s yields a minimum required bandwidth of 33.3 kHz. FCC specified bandwidths of 100kHz and 1MHz were utilized below and above 1GHz, respectively.



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Test Report No. R-8885-1A

FCC ID: B4SXC14A

GENERAL NOTES

1. All readings were taken utilizing a peak detector function at a test distance of 3 meters.
2. The duty cycle was applied to the peak readings in order to determine the average value of the emissions.
3. All measurements were made with 12 VDC being derived from an AC Adapter.
4. The frequency range was scanned from 30 MHz to 3.1 GHz. All emissions not reported were more than 20 dB below the specified limit.



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Test Report No. R-8885-1A

FCC ID: B4SXC14A

EQUIPMENT LIST

Radiated Emissions, 30MHz-25GHz

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due Date
067	Open Area Test Site	Retlif	3 Meter	RNY	09/20/2000	09/20/2003
128C	Double Ridge Guide	Eaton Corporation	1 GHz - 18 GHz	96001	09/18/2000	09/18/2001
129E	High Gain Horn Antenna	Microlab/FXR	18 GHz - 26.5 GHz	K638A	09/18/2000	09/18/2001
133	Broadband Pre-Amplifier	Electro-Metrics	10 kHz - 1 GHz, 26dB	BPA-1000	06/13/2000	06/13/2001
206B	6.0 dB Attenuator	Texscan	0 - 1.0 GHz	FP-50 - 6 dB	06/13/2000	06/13/2001
523	Biconilog	Electro-Mechanics	26 - 2000 MHz	3142B	06/08/2000	06/08/2001
543	Preamplifier	Hewlett Packard	1.0 GHz - 26.5 GHz	8449B	06/16/1999	06/16/2001
712	EMI Test Receiver	Rohde & Schwarz	20 Hz - 26.5 GHz	ESI26	03/01/2000	03/01/2001

Conducted Emissions, 450kHz-30MHz

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due Date
078	LISN	Solar Electronics	10 kHz - 30 MHz	8028-50-TS24BNC	04/27/2000	04/27/2001
091	Shielded Enclosure	Retlif	10 kHz - 1 GHz	Room 6	07/21/2000	07/21/2001
141A	Graphics Plotter	Hewlett Packard	N/A	7470A	03/08/2000	03/08/2001
202	Transient Limiter	Hewlett Packard	.009 MHz - 200 MHz	11947A	07/24/2000	07/24/2001
513	LISN	Solar Electronics	10 kHz - 30 MHz	8028-50-TS24BNC	04/27/2000	04/27/2001
R089	Spectrum Analyzer	Hewlett Packard	30 Hz - 2.9 GHz	8560E	09/16/1999	09/16/2001



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Test Report No. R-8885-1A

FCC ID: B4SXC14A

FCC 15.207(a)

Conducted Emissions

Please refer to separate electronic file named cedata.pdf



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Test Report No. R-8885-1A

FCC ID: B4SXC14A

FCC 15.231(b)

RADIATED EMISSIONS, FUNDAMENTAL & SPURIOUS CASE

See separate e-file attachment named RE fundharm.doc and REspur.doc



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Test Report No. R-8885-1A

FCC ID: B4SXC14A

FCC 15.231(c)

OCCUPIED BANDWIDTH

Please refer to separate electronic file named Occbw.pdf



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Test Report No. R-8885-1A

FCC ID: B4SXC14A

FCC 15.231(c)

DUTY CYCLE

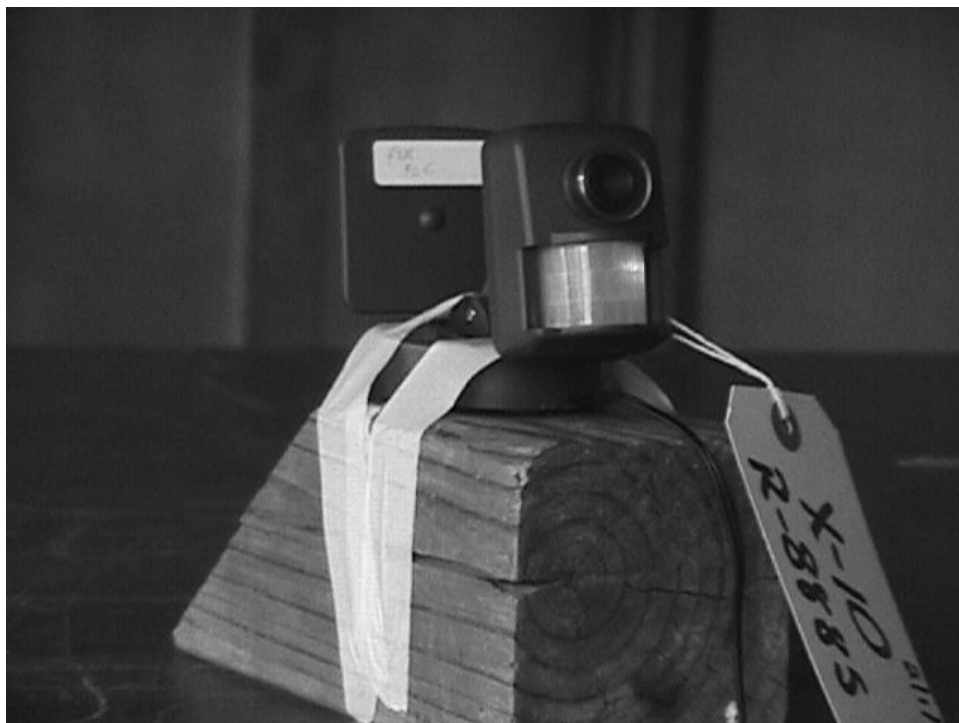
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Test Report No. R-8885-1A

FCC ID: B4SXC14A

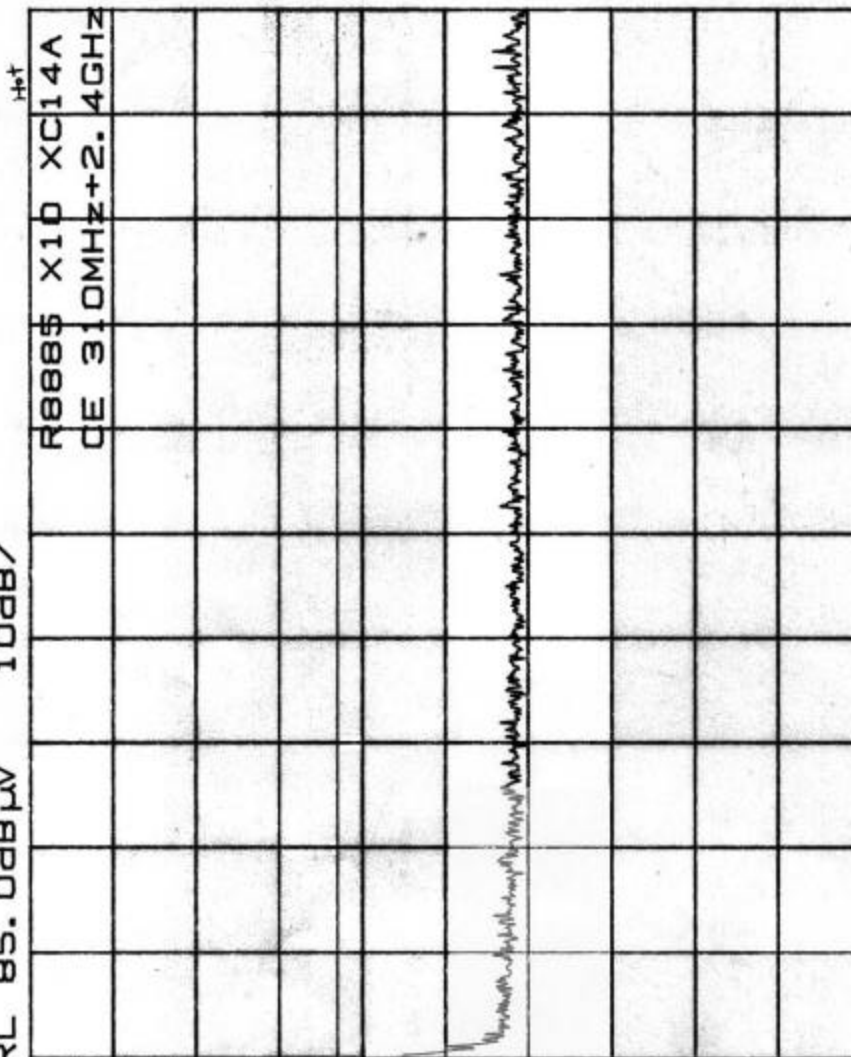


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Test Report No. R-8885-1A
FCC ID: B4SXC14A

ATTEN 10dB

RL 85.0dBμV 10dB/



START 450kHz STOP 30.00MHz
*RBW 10kHz *VBW 30kHz *SWP 20.0sec

Customer:	X-10 (USA)
Test Sample:	310MHz and 2.4GHz Transmitter
Model No.:	XC14A FCC ID: B45XC14A
Test Method:	FCC15.207(a) Conducted Emissions, 450kHz-30MHz
Notes:	Lead-HOT Detection: Peak 310MHz AND 2.4GHz Transmitters both active.
Date:	February 9, 2001
Test:	Peter Lananna
Sheet	1 of 2



Retlif Testing Laboratories

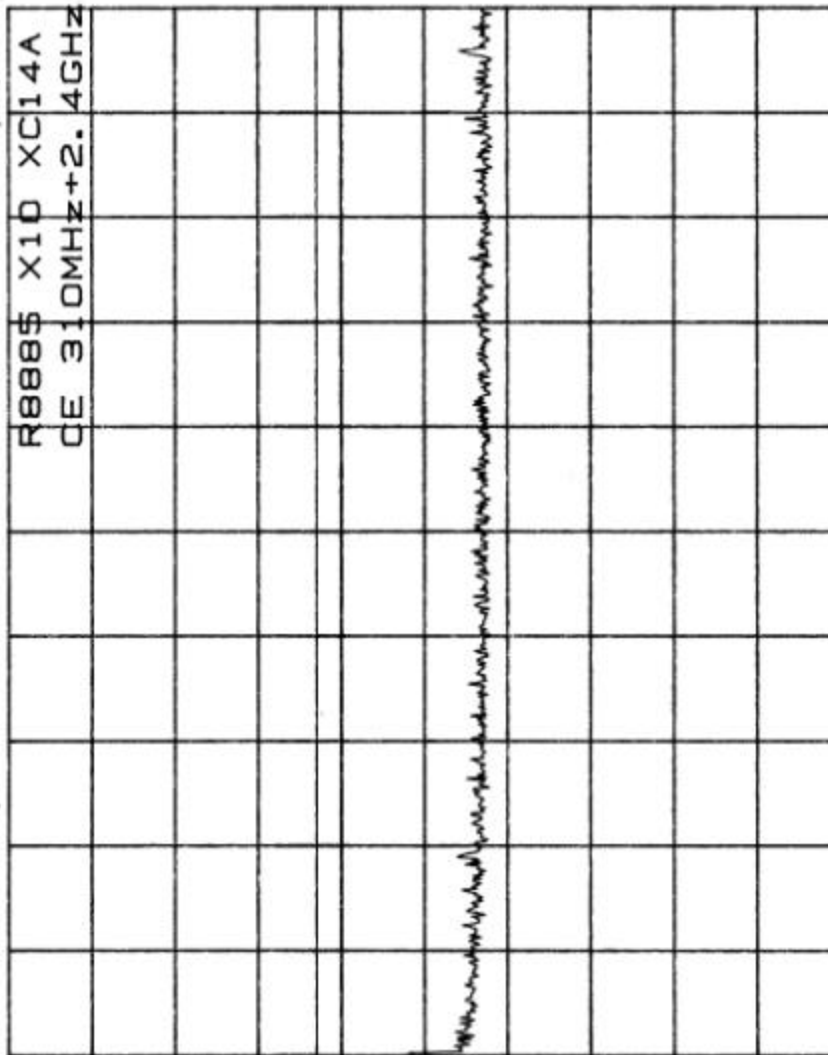
Report No. R-8885-1A

ATTEN 10dB

RL 85.0dBμV

10dB/

Neutral



START 450kHz STOP 30.00MHz
 *RBW 10kHz *VBW 30kHz *SWP 20.0sec

Customer:	K-10 (USA)
Test Sample:	310MHz and 2.4GHz Transmitter
Model No.:	XC14A FCC ID: B45XC14A
Test Method:	FCC15.107(a) Conducted Emissions, 450kHz-30MHz
Notes:	Limit-NEUTRAL Detector-Peak 310MHz AND 2.4GHz Transmitters both active.
Date:	February 9, 2001
Tech:	Peter Lananna
Sheet:	2 of 2



Retlif Testing Laboratories

Report No. R-8885-1A

Test Method:		FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions					
Customer:		X-10 (USA)			Job No.	R-8885-1a	
Test Sample:		310MHz Transmitter			Paragraph:	15.231	
Model No.:		XC14A			FCC ID:	B4SXC14A	
Operating Mode:		Continuously Transmitting a 310 MHz Signal					
Technician:		Peter Lananna			Date:	February 8, 2001	
Notes:		Test Distance: 3 Meters Detector: Peak, Unless otherwise specified					
Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Peak Limit
MHz	(V/H)/Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
310	H/1.0	X	68.0	-4.0	64.0	1584.9	58330
	H/1.0	Y	69.5	-4.0	65.5	1883.6	
	H/2.0	Z	70.7	-4.0	66.7	2162.7	
	V/1.8	X	72.0	-4.0	68.0	2511.9	
	V/1.0	Y	67.5	-4.0	63.5	1496.2	
310	V/1.0	Z	68.5	-4.0	64.5	1678.8	58330
620	H / 1.0	X	37.7	3.2	40.9	110.9	5833
	H / 1.3	Y	36.7	3.2	39.9	98.9	
	H / 1.3	Z	37.5	3.2	40.7	108.4	
	V / 3.0	X	38.0	3.2	41.2	114.8	
	V / 1.0	Y	41.7	3.2	44.9	175.8	
620	V / 2.5	Z	39.0	3.2	42.2	128.8	5833
930	H / 1.0	X	32.0	7.4	39.4	93.3*	5833
	H / 1.0	Y	32.0	7.4	39.4	93.3*	
	H / 1.0	Z	32.0	7.4	39.4	93.3*	
	V / 1.0	X	32.0	7.4	39.4	93.3*	
	V / 1.0	Y	32.0	7.4	39.4	93.3*	
930	V / 1.0	Z	32.0	7.4	39.4	93.3*	5833
1240	H / 1.3	X	40.0	-5.6	34.4	52.5*	5000
	H / 1.3	Y	40.0	-5.6	34.4	52.5*	
	H / 1.3	Z	40.0	-5.6	34.4	52.5*	
	V / 1.3	X	40.0	-5.6	34.4	52.5*	
	V / 1.3	Y	40.0	-5.6	34.4	52.5*	
1240	V / 1.5	Z	40.0	-5.6	34.4	52.5*	5000
1550	H / 1.0	X	40.0	-4.4	35.6	60.3*	5000
	H / 1.0	Y	40.0	-4.4	35.6	60.3*	
	H / 1.0	Z	40.0	-4.4	35.6	60.3*	
	V / 1.0	X	40.0	-4.4	35.6	60.3*	
	V / 1.0	Y	40.0	-4.4	35.6	60.3*	
1550	V / 1.0	Z	40.0	-4.4	35.6	60.3*	5000
	The frequency range was scanned from 30 MHz to 3.1GHz. All emissions not recorded were more						
	Than 10 dB below the specified limit. Emissions from the EUT do not exceed the specified limits.						
	*=Noise Floor Measurements (Minimum system sensitivity)						



Retlif Testing Laboratories

Retlif Job Number R-8885-1a

Test Method:		FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions					
Customer:		X-10 (USA)			Job No.	R-8885-1a	
Test Sample:		310MHz Transmitter			Paragraph:	15.231	
Model No.:		XC14A			FCC ID:	B4SXC14A	
Operating Mode:		Continuously Transmitting a 310 MHz Signal					
Technician:		Peter Lananna			Date:	February 8, 2001	
Notes:		Test Distance: 3 Meters Detector: Peak, unless otherwise specified					
Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Peak Limit
MHz	(V/H)-Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
1860	H / 1.0	X	40.0	-2.4	37.6	75.9*	5833
	H / 1.0	Y	40.0	-2.4	37.6	75.9*	
	H / 1.0	Z	40.0	-2.4	37.6	75.9*	
	V / 1.0	X	40.0	-2.4	37.6	75.9*	
	V / 1.0	Y	40.0	-2.4	37.6	75.9*	
1860	V / 1.0	Z	40.0	-2.4	37.6	75.9*	5833
2170	H / 1.0	X	40.0	-1.3	38.7	86.1*	5833
	H / 1.0	Y	40.0	-1.3	38.7	86.1*	
	H / 1.0	Z	40.0	-1.3	38.7	86.1*	
	V / 1.0	X	40.0	-1.3	38.7	86.1*	
	V / 1.0	Y	40.0	-1.3	38.7	86.1*	
2170	V / 1.0	Z	40.0	-1.3	38.7	86.1*	5833
2480	H / 1.0	X	40.0	-0.1	39.9	98.9*	5833
	H / 1.0	Y	40.0	-0.1	39.9	98.9*	
	H / 1.0	Z	40.0	-0.1	39.9	98.9*	
	V / 1.0	X	40.0	-0.1	39.9	98.9*	
	V / 1.0	Y	40.0	-0.1	39.9	98.9*	
2480	V / 1.0	Z	40.0	-0.1	39.9	98.9*	5833
2790	H / 1.0	X	40.0	1.5	41.5	118.9*	5000
	H / 1.0	Y	40.0	1.5	41.5	118.9*	
	H / 1.0	Z	40.0	1.5	41.5	118.9*	
	V / 1.0	X	40.0	1.5	41.5	118.9*	
	V / 1.0	Y	40.0	1.5	41.5	118.9*	
2790	V / 1.0	Z	40.0	1.5	41.5	118.9*	5000
3100	H / 1.0	X	40.0	3.5	43.5	149.6*	5833
	H / 1.0	Y	40.0	3.5	43.5	149.6*	
	H / 1.0	Z	40.0	3.5	43.5	149.6*	
	V / 1.0	X	40.0	3.5	43.5	149.6*	
	V / 1.0	Y	40.0	3.5	43.5	149.6*	
3100	V / 1.0	Z	40.0	3.5	43.5	149.6*	5833
	The frequency range was scanned from 30 MHz to 3.1 GHz. All emissions not recorded were more						
	Than 10 dB below the specified limit. Emissions from the EUT do not exceed the specified limits.						
	*=Noise Floor Measurements (Minimum system sensitivity)						



Retlif Testing Laboratories

Retlif Job Number R-8885-1a

Test Method:		FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions						
Customer:		X-10 (USA)			Job No.		R-8885-1a	
Test Sample:		310MHz Transmitter			Paragraph:		15.231	
Model No.:		XC14A			FCC ID:		B4SXC14A	
Operating Mode:		Continuously Transmitting a 310 MHz Signal						
Technician:		Peter Lananna			Date:		February 8, 2001	
Notes:		Test Distance: 3 Meters			Duty Cycle: 31.34%			
		Detector: Peak, unless otherwise specified			Duty Cycle Correction: - 10.1 dB			
Test Freq.	Antenna Pol./Height	EUT Orientation	Peak Reading	Correction Factor	Corrected Reading	Converted Reading	Avg. Limit	
MHz	(V/H)-Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m	
310	H / 1.3	X	64.0	-10.1	53.9	495.5	5833	
	H / 1.0	Y	65.5	-10.1	55.4	588.8		
	H / 2.0	Z	66.7	-10.1	56.6	676.1		
	V / 1.8	X	68.0	-10.1	57.9	785.2		
	V / 2.0	Y	63.5	-10.1	53.4	467.7		
310	V / 1.5	Z	64.5	-10.1	54.4	524.8	5833	
620	H / 1.3	X	40.9	-10.1	30.8	34.7	583	
	H / 1.3	Y	39.9	-10.1	29.8	30.9		
	H / 1.3	Z	40.7	-10.1	30.6	33.9		
	V / 1.8	X	41.2	-10.1	31.1	35.9		
	V / 2.0	Y	44.9	-10.1	34.8	55.0		
620	V / 1.0	Z	42.2	-10.1	32.1	40.3	583	
930	H / 1.0	X	39.4	-10.1	29.3	29.2*	583	
	H / 1.0	Y	39.4	-10.1	29.3	29.2*		
	H / 1.0	Z	39.4	-10.1	29.3	29.2*		
	V / 1.0	X	39.4	-10.1	29.3	29.2*		
	V / 1.0	Y	39.4	-10.1	29.3	29.2*		
930	V / 1.0	Z	39.4	-10.1	29.3	29.2*	583	
1240	H / 1.3	X	34.4	-10.1	24.3	16.4*	500	
	H / 1.3	Y	34.4	-10.1	24.3	16.4*		
	H / 1.3	Z	34.4	-10.1	24.3	16.4*		
	V / 1.3	X	34.4	-10.1	24.3	16.4*		
	V / 1.3	Y	34.4	-10.1	24.3	16.4*		
1240	V / 1.5	Z	34.4	-10.1	24.3	16.4*	500	
1550	H / 1.0	X	35.6	-10.1	25.5	18.8*	500	
	H / 1.0	Y	35.6	-10.1	25.5	18.8*		
	H / 1.0	Z	35.6	-10.1	25.5	18.8*		
	V / 1.0	X	35.6	-10.1	25.5	18.8*		
	V / 1.0	Y	35.6	-10.1	25.5	18.8*		
1550	V / 1.0	Z	35.6	-10.1	25.5	18.8*	500	
	The frequency range was scanned from 30 MHz to 3.1 GHz. All emissions not recorded were more							
	Than 10 dB below the specified limit. Emissions from the EUT do not exceed the specified limits.							
	*=Noise Floor Measurements (Minimum system sensitivity)							



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Retlif Job Number R-8853-1a

Test Method:		FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions						
Customer:		X-10 (USA)			Job No.		R-8885-1a	
Test Sample:		310MHz Transmitter			Paragraph:		15.231	
Model No.:		XC14A			FCC ID:		B4SXC14A	
Operating Mode:		Continuously Transmitting a 310 MHz Signal						
Technician:		Peter Lananna			Date:		February 8, 2001	
Notes:		Test Distance: 3 Meters			Duty Cycle: 31.34%			
		Detector: Peak, unless otherwise specified			Duty Cycle Correction: -10.1 dB			
Test Freq.	Antenna Pol./Height	EUT Orientation	Peak Reading	Correction Factor	Corrected Reading	Converted Reading	Avg. Limit	
MHz	(V/H)-Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m	
1860	H / 1.0	X	37.6	-10.1	27.5	23.7*	583	
	H / 1.0	Y	37.6	-10.1	27.5	23.7*		
	H / 1.0	Z	37.6	-10.1	27.5	23.7*		
	V / 1.0	X	37.6	-10.1	27.5	23.7*		
	V / 1.0	Y	37.6	-10.1	27.5	23.7*		
1860	V / 1.0	Z	37.6	-10.1	27.5	23.7*	583	
2170	H / 1.0	X	38.7	-10.1	28.6	26.9*	583	
	H / 1.0	Y	38.7	-10.1	28.6	26.9*		
	H / 1.0	Z	38.7	-10.1	28.6	26.9*		
	V / 1.0	X	38.7	-10.1	28.6	26.9*		
	V / 1.0	Y	38.7	-10.1	28.6	26.9*		
2170	V / 1.0	Z	38.7	-10.1	28.6	26.9*	583	
2480	H / 1.0	X	39.9	-10.1	29.8	30.9*	583	
	H / 1.0	Y	39.9	-10.1	29.8	30.9*		
	H / 1.0	Z	39.9	-10.1	29.8	30.9*		
	V / 1.0	X	39.9	-10.1	29.8	30.9*		
	V / 1.0	Y	39.9	-10.1	29.8	30.9*		
2480	V / 1.0	Z	39.9	-10.1	29.8	30.9*	583	
2790	H / 1.0	X	41.5	-10.1	31.4	37.2*	500	
	H / 1.0	Y	41.5	-10.1	31.4	37.2*		
	H / 1.0	Z	41.5	-10.1	31.4	37.2*		
	V / 1.0	X	41.5	-10.1	31.4	37.2*		
	V / 1.0	Y	41.5	-10.1	31.4	37.2*		
2790	V / 1.0	Z	41.5	-10.1	31.4	37.2*	500	
3100	H / 1.0	X	43.5	-10.1	33.4	46.8*	583	
	H / 1.0	Y	43.5	-10.1	33.4	46.8*		
	H / 1.0	Z	43.5	-10.1	33.4	46.8*		
	V / 1.0	X	43.5	-10.1	33.4	46.8*		
	V / 1.0	Y	43.5	-10.1	33.4	46.8*		
3100	V / 1.0	Z	43.5	-10.1	33.4	46.8*	583	
	The frequency range was scanned from 30 MHz to 3.1 GHz. All emissions not recorded were more							
	Than 10 dB below the specified limit. Emissions from the EUT do not exceed the specified limits.							
	*=Noise Floor Measurements (Minimum system sensitivity)							

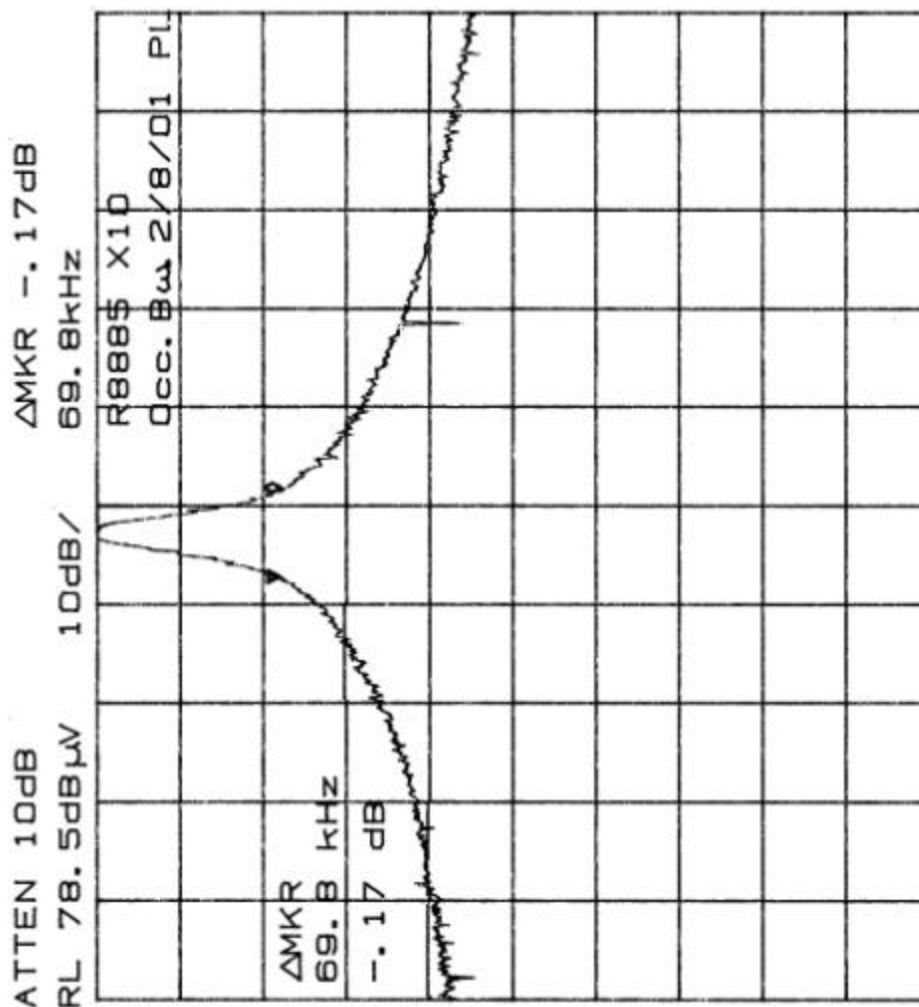


Retlif Testing Laboratories

Retlif Job Number R-8885-1a



Retlif Job Number R-8885-1a



Customer: X-10 (USA)
 Test Sample: 310MHz Transmitter
 Model No: KC14A FCC ID: B45KC14A
 Test Method: FCC15.231(c) Occupied Bandwidth
 Notes: The bandwidth of the emissions not greater than 0.25% of fundamental carrier.
 Date: February 9, 2001 Tech: Peter Lianma Sheet: 1 of 1



Retlif Testing Laboratories

Report No. R-8885-1A

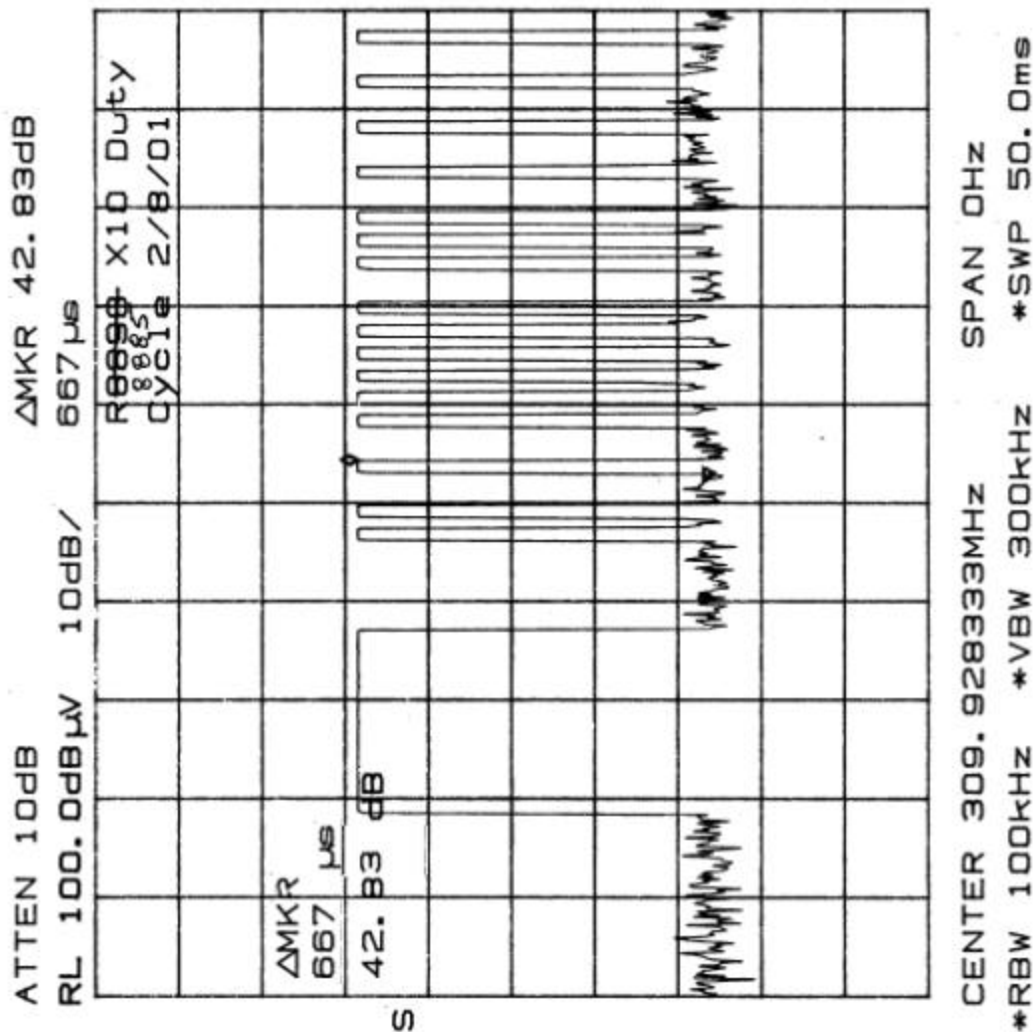
Customer: X-10 (USA)
 Test Sample: 310MHz Transmitter
 Model No: XC14A FCC ID: B45XC14A
 Test Method: FCC15.36 (b) Duty Cycle Determination
 Notes: Small Pulse=667micro seconds*23
 Small Pulse=22.011mS seconds

Date: February 8, 2001 Tech: Peter Lanza Sheet: 1 of 3

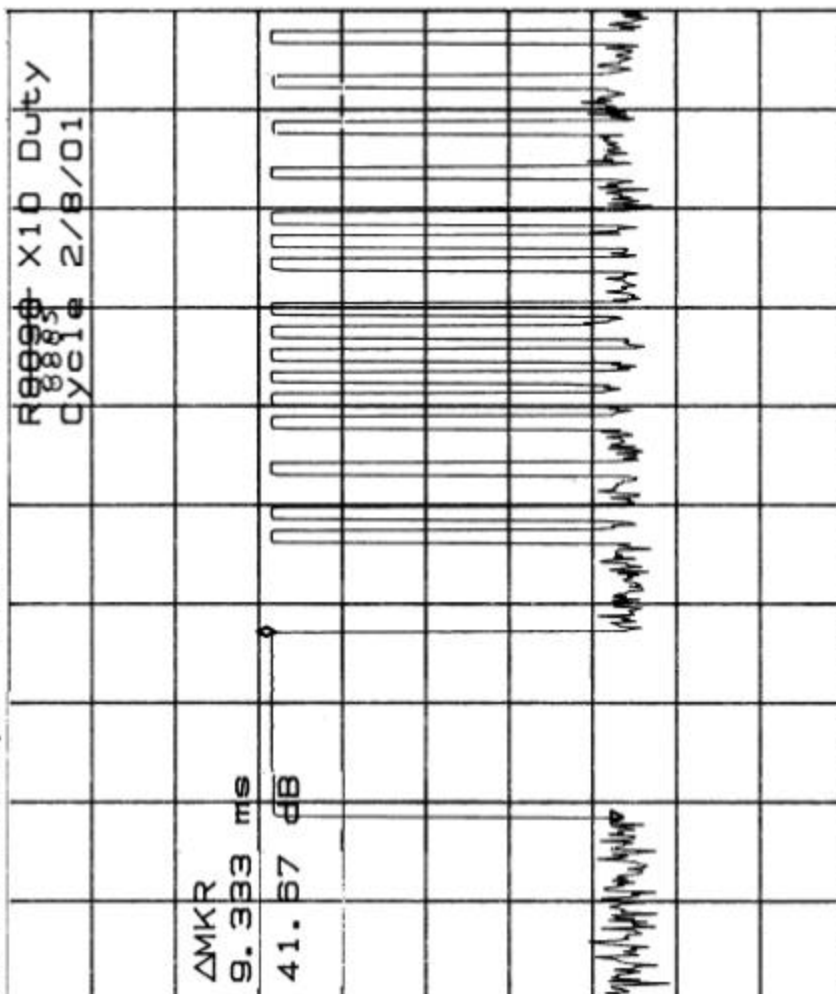


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Report No. R-8885-1A



ATTEN 10dB ΔMKR 41.67dB
 RL 100.0dBμV 10dB/ 9.333ms



CENTER 309.928333MHz SPAN 0Hz
 *RBW 100kHz *VBW 300kHz *SWP 50.0ms

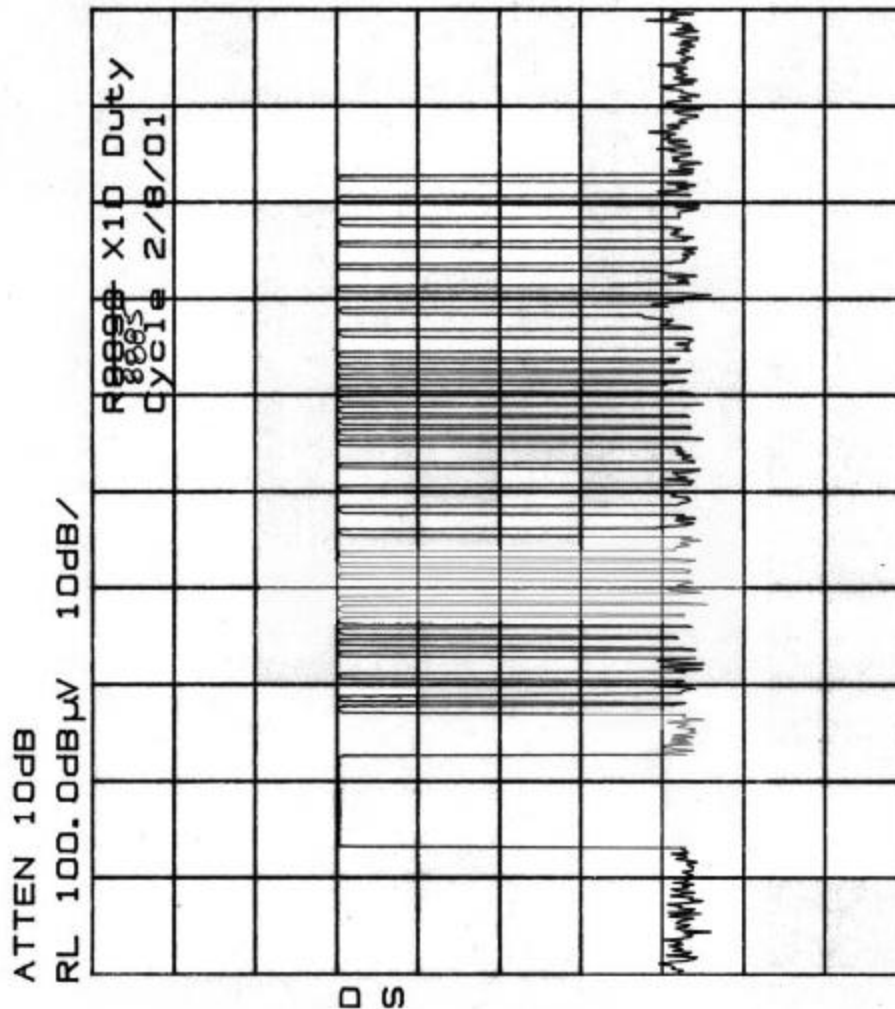
Customer: N-10 (USA)
 Test Sample: 310MHz Transmitter
 Model No.: KC14A FCC ID: B45K14A
 Test Method: FCC15.35 (b) Duty Cycle Determination
 Note: Large Pulse 9.333ms seconds

Date: February 8, 2001 Tech: Peter Lananna Sheet: 2 of 3



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Report No. R-8885-1A



CENTER 309.928333MHz SPAN 0Hz
*RBW 100kHz *VBW 300kHz *SWP 100ms

Customer: X-10 (USA)
Test Sample: 310MHz Transmitter
Model No: XC14A FCC ID: S45XC14A
Test Method: FCC15.35 (b) Duty Cycle Determination
Notes: ((33*967us)+9.333ms)/100ms=Duty cycle
31.34%=Duty cycle

Date: February 8, 2001 Tech: Peter Lianana Sheet: 3 of 3



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Report No. R-8885-1A