Technical Information

APPLICANT		MANUFACTURER	
Name:	X10 (USA), Inc.	**Name:**	X-10 Electronics (Shenzhen) Co. Ltd.
Address:	19823 58th Place South	**Address:**	Together Rich Industrial Park B Sanwei Industrial District, Xixiang Town
City, State, Zip:	Kent, WA 98032	**City, State, Zip:**	Baoan County, Shenzhen, China

TEST SPECIFICATION: FCC Rules and Regulations Part 15, Subpart C, Section 15.249

TEST PROCEDURE: ANSI C63.4:2003

TEST SAMPLE DESCRIPTION

TEST SAMPLE: 2.4 GHz Video Sender with Transmitter and 433 MHz Receiver

BRANDNAME(s): X10 (USA)

MODEL(s): VT46A

FCC ID: B4SVT46A

TYPE: Frequency Modulated Transmitter

POWER REQUIREMENTS: 6 VDC, 300 mA derived from external AC Adapter

FREQUENCY OF OPERATION: 2400-2483.5 MHz Bandwidth

APPLICABLE RULE SECTION: Part 15, Subpart C, Section 15.249

TESTS PERFORMED

- 15.207(a) Conducted Emissions
- 15.249(a) Occupied Bandwidth
- 15.249(c)/15.209 Radiated Emissions, Spurious Case
- 15.249(a) Radiated Emissions, Fundamental and Harmonics

TEST RESULTS

15.203: The intentional radiator is designed to ensure that no antenna other than that furnished by the applicant can be used with the device.

15.207 (a): FOR AC POWERED UNITS THAT FOLLOWING STATEMENT SHOULD BE INCLUDED IN THE TEST REPORT:

The radio frequency voltage that was conducted back on to the AC power line on any frequency/frequencies within the bandwidth of 150 kHz to 30 MHz did not exceed Class B limits as specified in CISPR 22.

15.249 (a): The unit operates in 2400 MHz to 2483.5 MHz band.
The field strength of the fundamental did not exceed 50 mV/M avg.
The field strength of the harmonics did not exceed 500 µV/M avg.

15.249 (b): Field strength readings were taken at 3 meters unless otherwise noted.

15.249 (c): Emissions radiated outside the specified frequency band were attenuated in accordance with the general radiated emissions limits of 5.209.

15.249 (d): The peak field strength of any emission did not exceed the maximum permitted average field strength by more than 20 dB.

GENERAL NOTES

1. All user accessible controls were adjusted to produce maximum emissions.
2. The device was tested with the following external accessories:
   AC adapter Model No.: 06300
   Panasonic VCR
   Tri-RCA Cable; ¼ inch mini dim cable
3. Measurements of Conducted Emissions were performed utilizing a 50 ohm / 50 µhenry Line Impedance Stabilization Network (LISN).
4. The unit operates at the following frequencies:
   The unit was tested at the following frequencies:

	Channel A	Channel B	Channel C	Channel D
The unit operates at the following frequencies:	2414 MHz	2431 MHz	2450 MHz	2468 MHz
The unit was tested at the following frequencies:	2414 MHz	-	2450 MHz	2468 MHz

5. The frequency range was scanned from 30 MHz to 25 GHz. All emissions not reported were more than 20 dB over the specified limit.

Certification and Signatures

We certify that this report is a true representation of the results obtained from the tests of the equipment stated. We further certify that the measurements shown in this report were made in accordance with the procedures indicated and vouch for the qualifications of all Retlif Testing Laboratories personnel taking them.

Donald C. Lerner
EMC Test Engineer

Richard J. Reitz
Laboratory Manager

Non-Warranty Provision
The testing services have been performed, findings obtained and reports prepared in accordance with generally accepted laboratory principles and practices. This warranty is in lieu of all others, either expressed or implied.

Non-Endorsement
This test report contains only findings and results arrived at after employing the specific test procedures and standards listed herein. It is not intended to constitute a recommendation, endorsement or certification of the product or material tested. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

EQUIPMENT LIST

FCC Part 15; Conducted Emissions

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due
078	LISN	Solar Electronics	10 kHz - 30 MHz	8028-50-TS24BNC	6/29/2006	6/29/2007
079	LISN	Solar Electronics	10 kHz - 30 MHz	8028-50-TS24BNC	6/29/2006	6/29/2007
896	EMI Test Receiver	Rohde & Schwarz	20 Hz - 40 GHz	ESIB40	8/2/2005	9/2/2006

FCC Part 15 Subpart C; Radiated Emissions

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due
067	Open Area Test Site	Retlif	3 Meter	RNY	10/1/2003	10/1/2006
128	Double Ridged Guide	Electro-Mechanics	1 GHz - 18 GHz	3105	3/27/2006	3/27/2007
129E	High Gain Horn Antenna	Microlab/FXR	18 GHz - 26.5 GHz	K638A	9/16/2005	9/16/2006
133	Broadband Pre-Amplifier	Electro-Metrics	10 kHz - 1 GHz, 26dB	BPA-1000	6/27/2006	6/27/2007
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	3/23/2006	9/23/2006
141A	Graphics Plotter	Hewlett Packard	N/A	7470A	2/9/2006	2/9/2007
141B	Quasi-Peak Adaptor	Hewlett Packard	100 Hz - 1 GHz	85650A	3/17/2006	9/17/2006
141C	Cable	Retlif	1 GHz ~ 18 GHz	1 METER, BLUE	1/4/2006	1/4/2007
141D	Cable	Retlif	1 GHz ~ 18 GHz	10 METER, BLACK	1/4/2006	1/4/2007
206B	6.0 dB Attenuator	Texscan	0 - 1.0 GHz	FP-50 - 6 dB	6/27/2006	6/27/2007
420	Amplifier	Hewlett Packard	2.0 GHz - 18 GHz	11975A	10/31/2005	10/31/2006
421	Harmonic Mixer	Hewlett Packard	18 GHz - 26.5 GHz	11970K	9/29/2003	9/29/2006
543	Preamplifier	Hewlett Packard	1.0 GHz - 26.5 GHz	8449B	9/9/2005	9/9/2007
617	Interference Analyzer	Electro-Metrics	10 kHz - 1 GHz	EMC-30	2/21/2006	2/21/2007
767	Biconilog	EMCO	26 - 2000 MHz	3142B	10/7/2005	10/7/2006

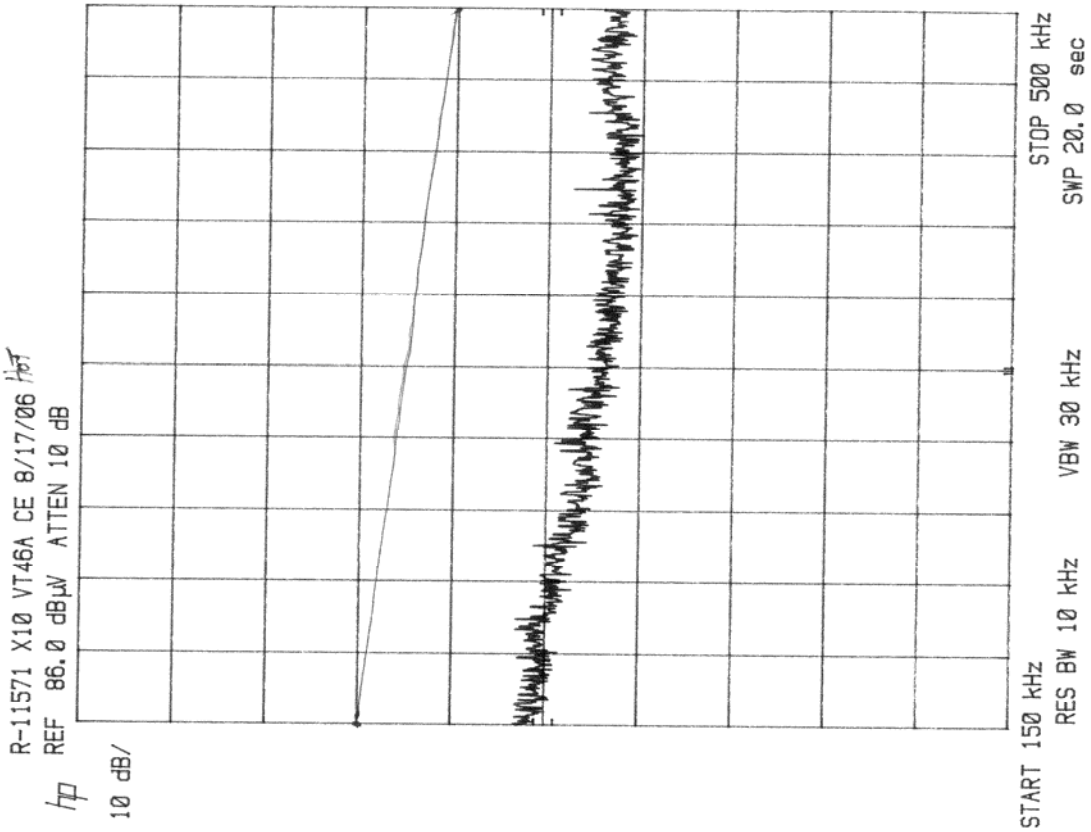
Occupied Bandwidth

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due
128B	Double Ridge Guide	AEL	2 GHz - 18 GHz	H1498	9/16/2005	9/16/2006
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	3/23/2006	9/23/2006
141B	Quasi-Peak Adaptor	Hewlett Packard	100 Hz - 1 GHz	85650A	3/17/2006	9/17/2006
543	Preamplifier	Hewlett Packard	1.0 GHz - 26.5 GHz	8449B	9/9/2005	9/9/2007

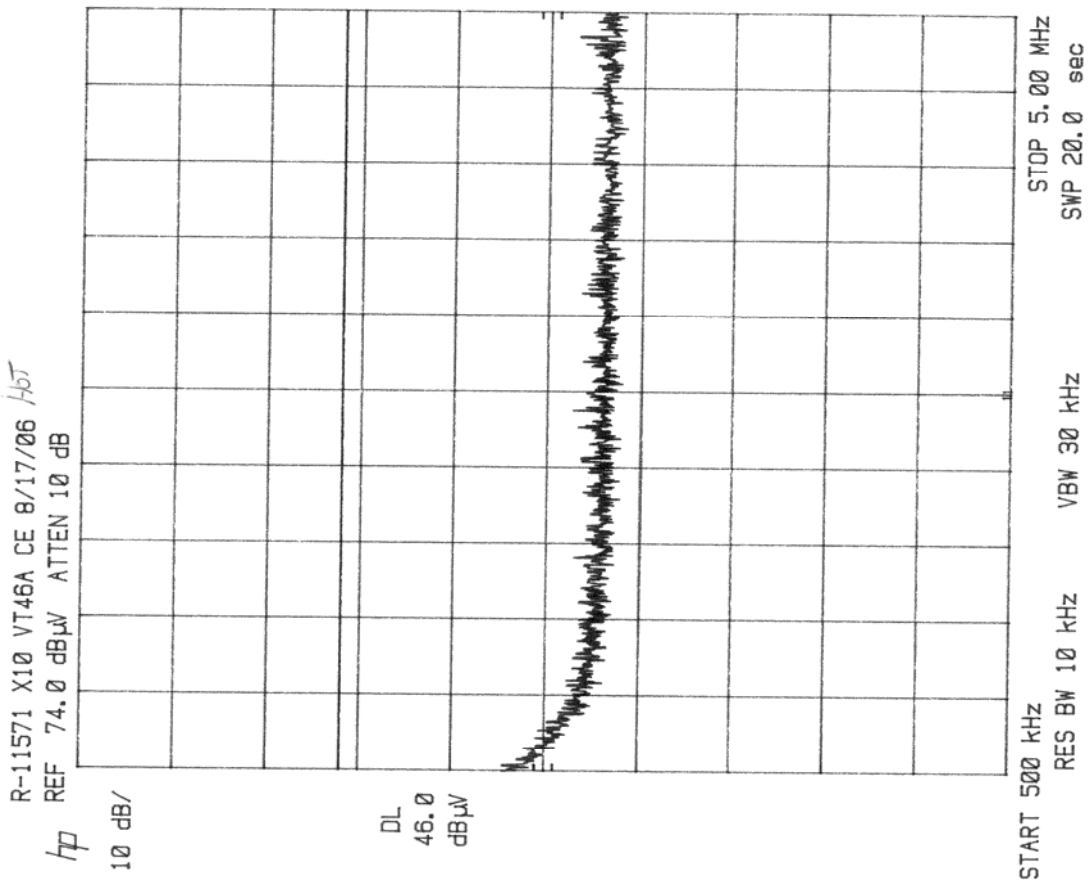
FCC Part 15 Subpart C; Radiated Emissions

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due
067	Open Area Test Site	Retlif	3 Meter	RNY	10/1/2003	10/1/2006
128	Double Ridged Guide	Electro-Mechanics	1 GHz - 18 GHz	3105	3/27/2006	3/27/2007
129E	High Gain Horn Antenna	Microlab/FXR	18 GHz - 26.5 GHz	K638A	9/16/2005	9/16/2006
133	Broadband Pre-Amplifier	Electro-Metrics	10 kHz - 1 GHz, 26dB	BPA-1000	6/27/2006	6/27/2007
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	3/23/2006	9/23/2006
141A	Graphics Plotter	Hewlett Packard	N/A	7470A	2/9/2006	2/9/2007
141B	Quasi-Peak Adaptor	Hewlett Packard	100 Hz - 1 GHz	85650A	3/17/2006	9/17/2006
141C	Cable	Retlif	1 GHz ~ 18 GHz	1 METER, BLUE	1/4/2006	1/4/2007
141D	Cable	Retlif	1 GHz ~ 18 GHz	10 METER, BLACK	1/4/2006	1/4/2007
206B	6.0 dB Attenuator	Texscan	0 - 1.0 GHz	FP-50 - 6 dB	6/27/2006	6/27/2007
420	Amplifier	Hewlett Packard	2.0 GHz - 18 GHz	11975A	10/31/2005	10/31/2006
421	Harmonic Mixer	Hewlett Packard	18 GHz - 26.5 GHz	11970K	9/29/2003	9/29/2006
543	Preamplifier	Hewlett Packard	1.0 GHz - 26.5 GHz	8449B	9/9/2005	9/9/2007
617	Interference Analyzer	Electro-Metrics	10 kHz - 1 GHz	EMC-30	2/21/2006	2/21/2007
767	Biconilog	EMCO	26 - 2000 MHz	3142B	10/7/2005	10/7/2006

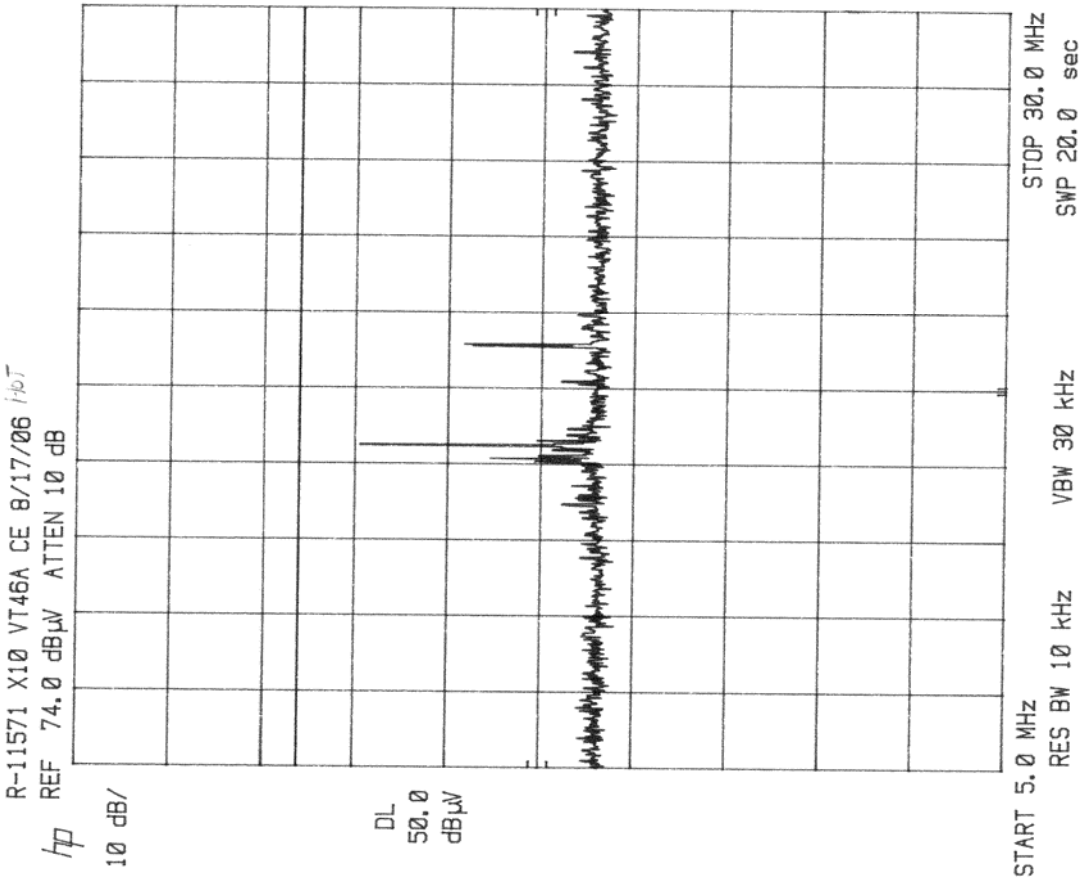
Conducted Emissions
Test Data



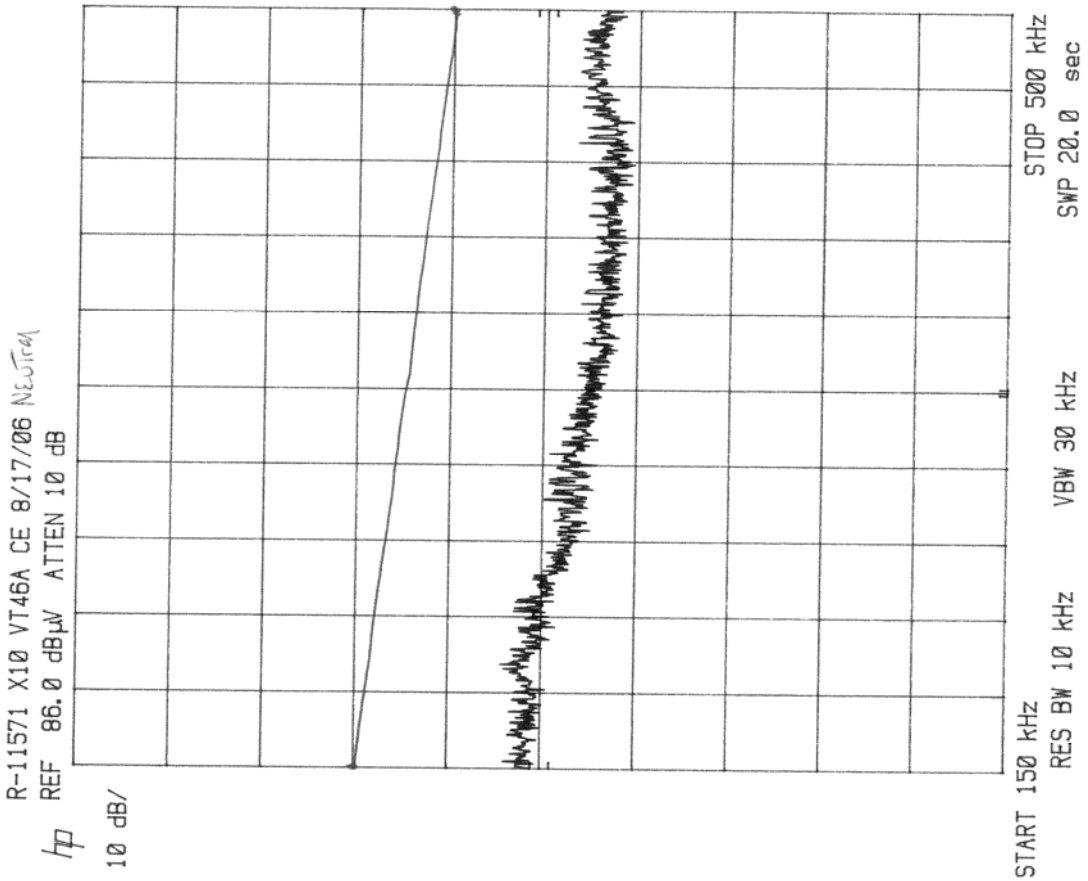
FCC Part 15, Subpart C, Section 15.207, Conducted Emissions, Power Leads
Lead Tested: Hot Lead
Detector Function: Peak passes average limit



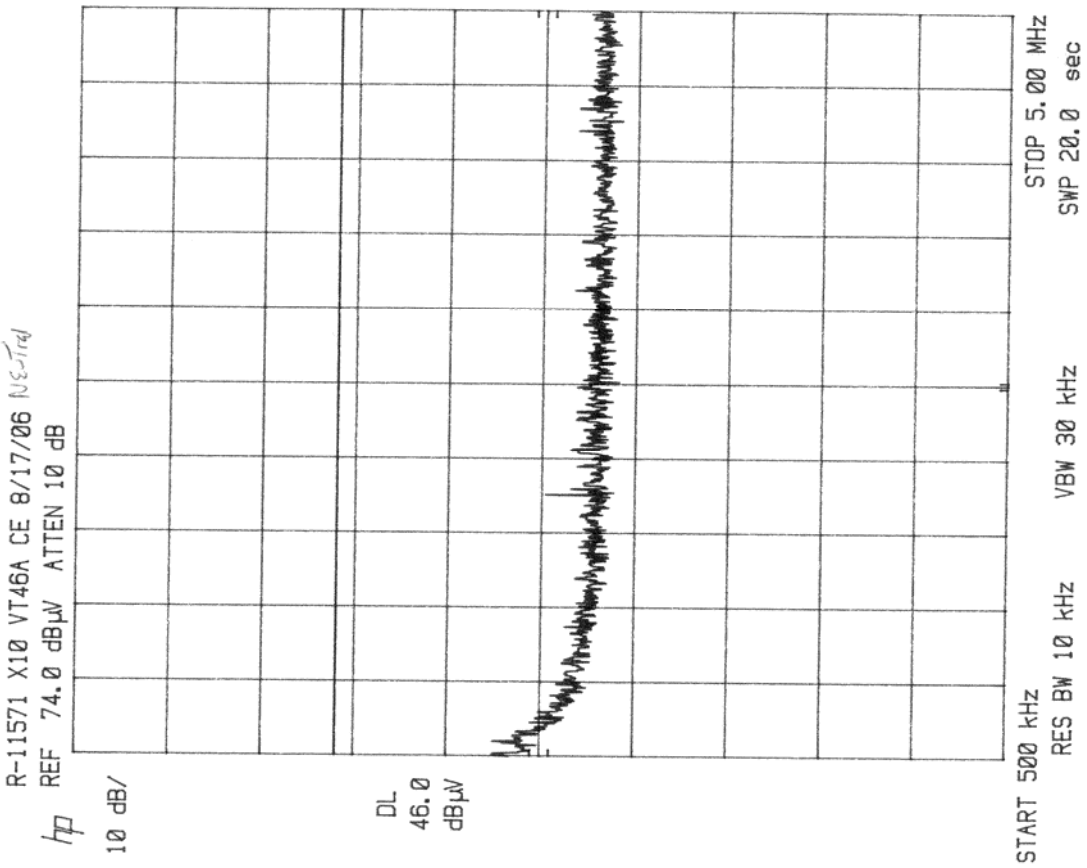
FCC Part 15, Subpart C, Section 15.207, Conducted Emissions, Power Leads
Lead Tested: Hot Lead
Detector Function: Peak passes average limit



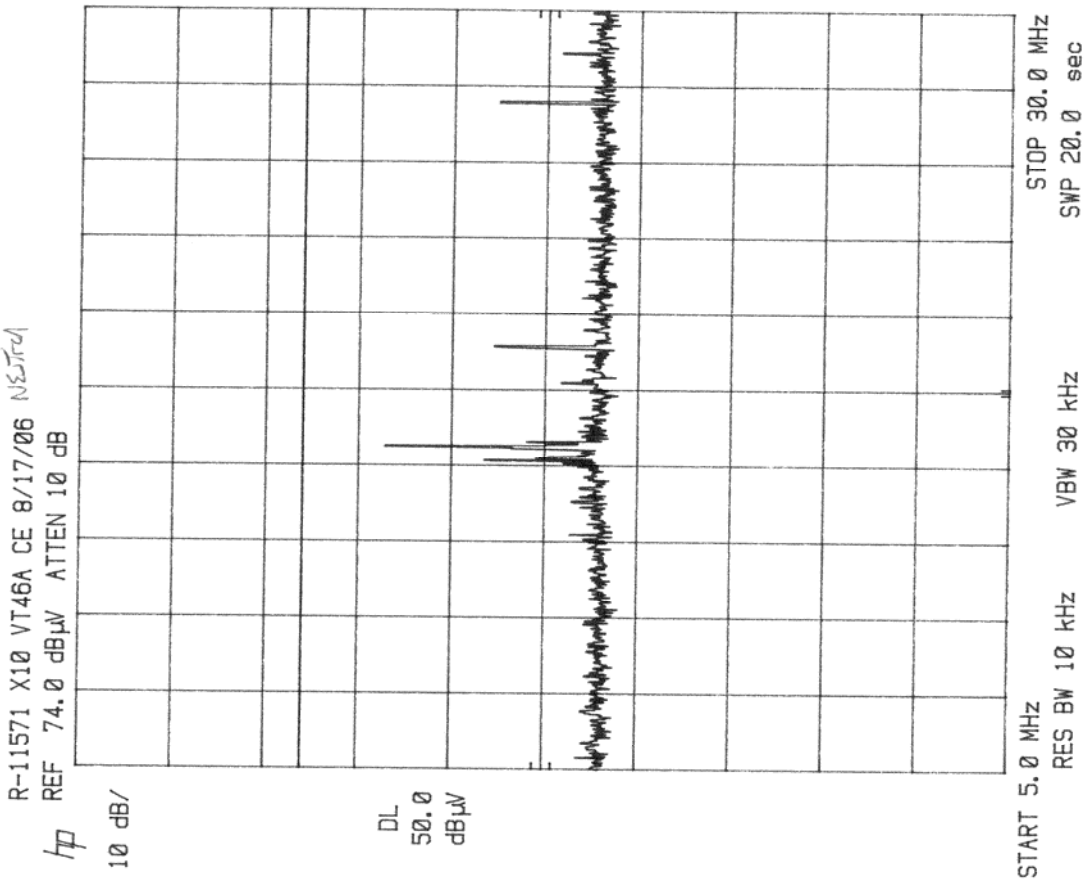
FCC Part 15, Subpart C, Section 15.207, Conducted Emissions, Power Leads
Lead Tested: Hot Lead
Detector Function: Peak passes average limit



FCC Part 15, Subpart C, Section 15.207, Conducted Emissions, Power Leads
Lead Tested: Neutral Lead
Detector Function: Peak passes average limit

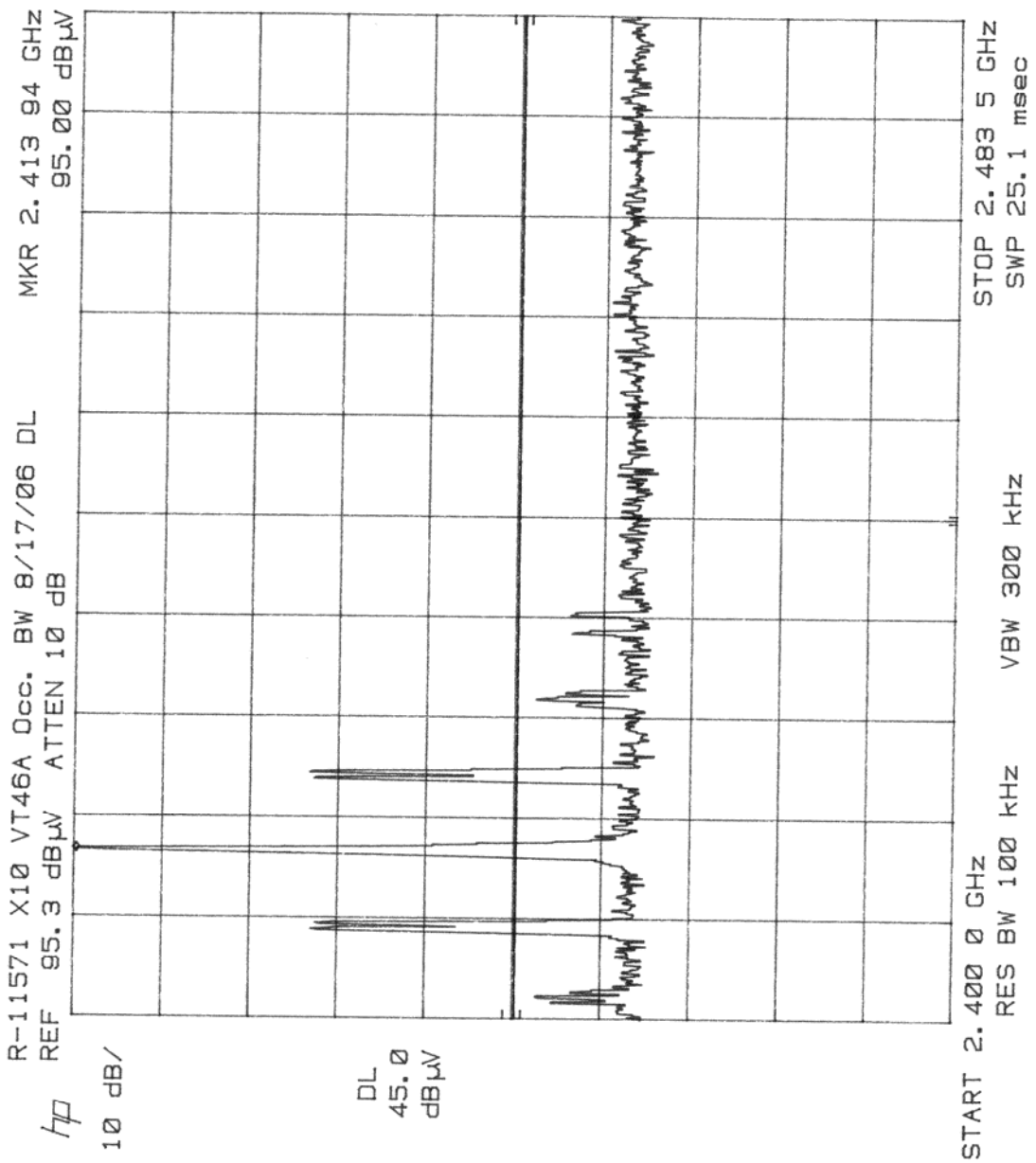


FCC Part 15, Subpart C, Section 15.207, Conducted Emissions, Power Leads
Lead Tested: Neutral Lead
Detector Function: Peak passes average limit

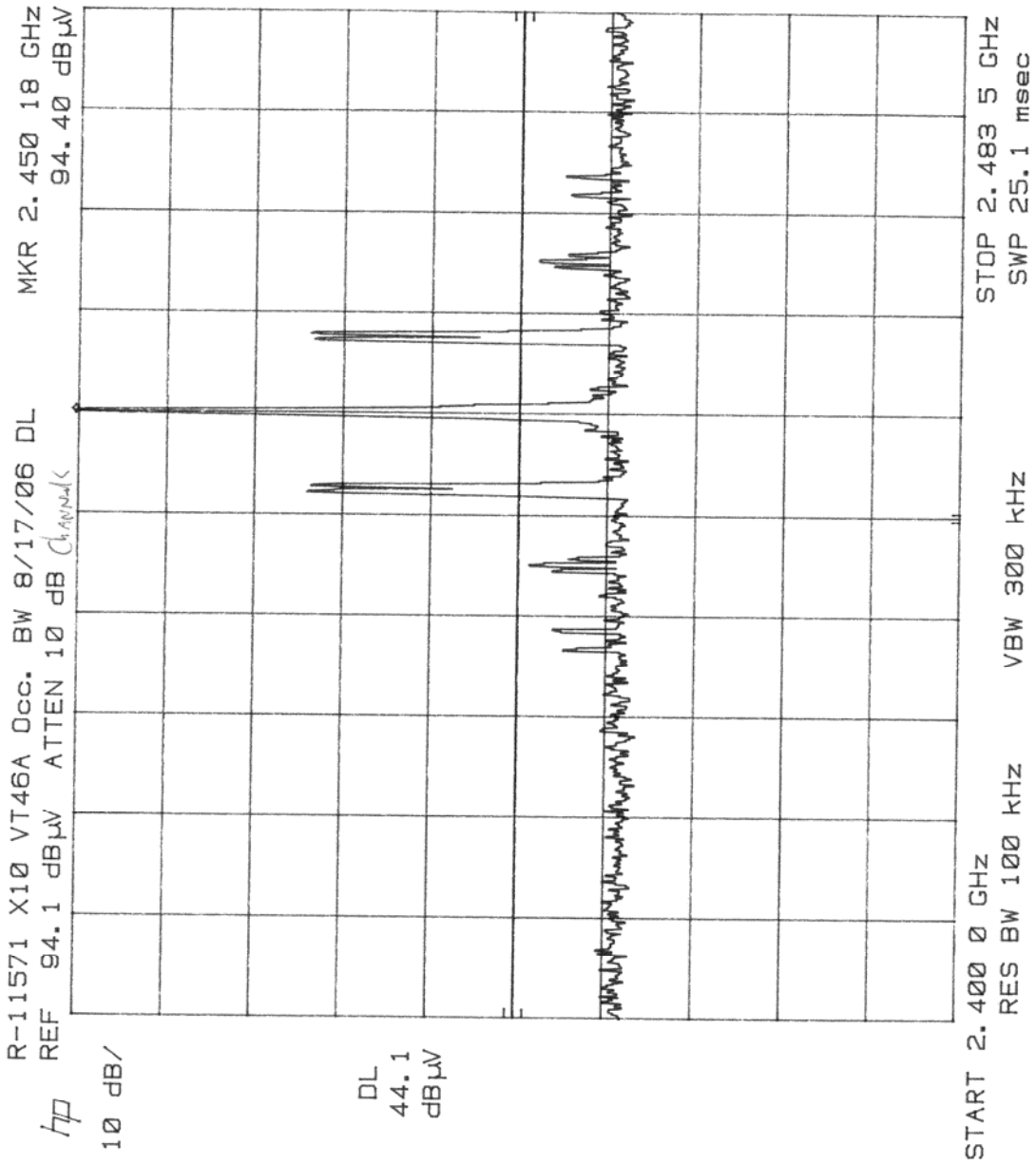


FCC Part 15, Subpart C, Section 15.207, Conducted Emissions, Power Leads
Lead Tested: Neutral Lead
Detector Function: Peak passes average limit

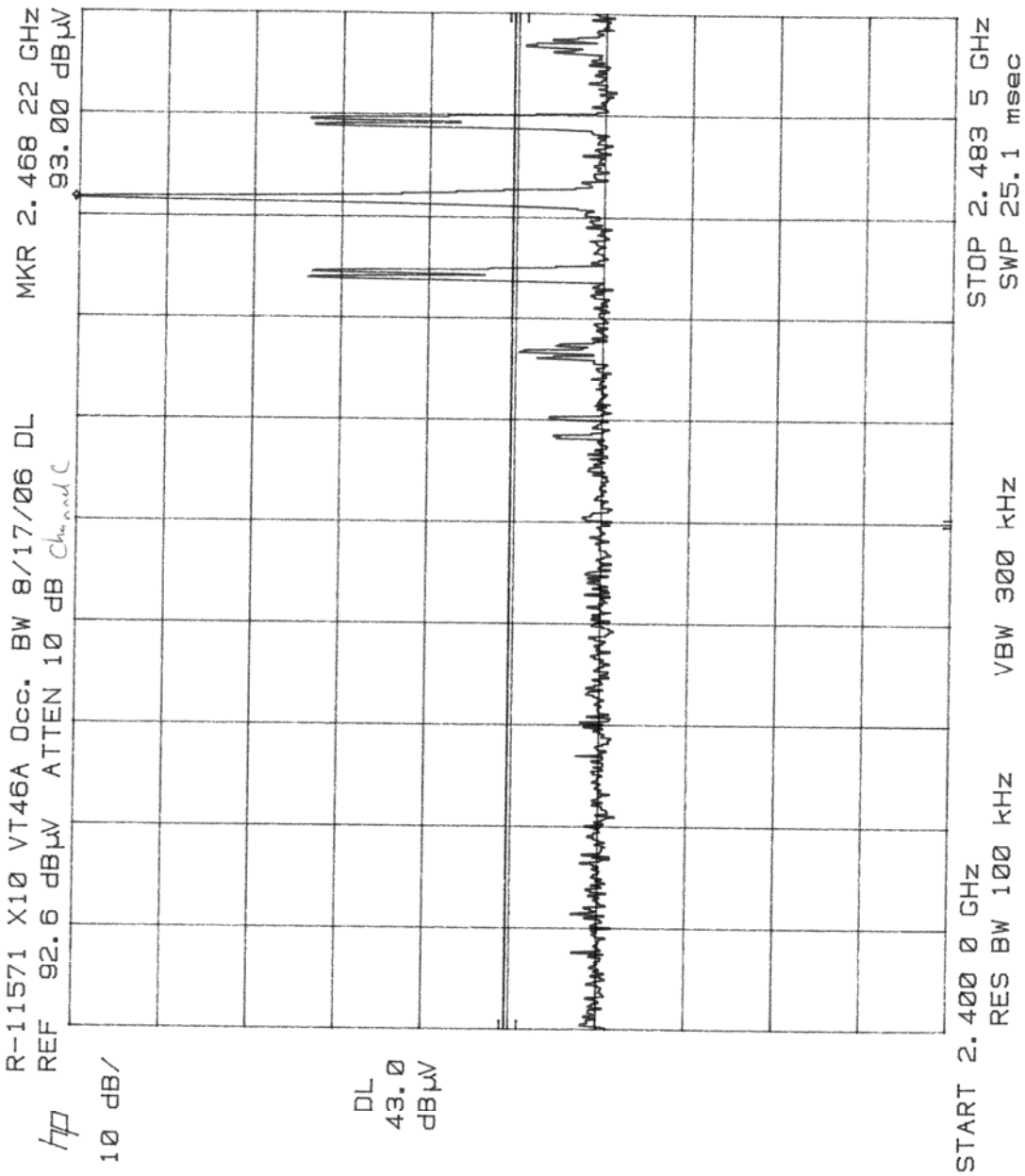
Occupied Bandwidth
Test Data



Test Method: FCC Part 15, Subpart C, 15.249 (c), Occupied Bandwidth.
Notes: Channel A 2.414 GHz. Emissions of center frequency attenuated by 50 dBc at the band edges



Test Method: FCC Part 15, Subpart C, 15.249 (c), Occupied Bandwidth.
Notes: Channel C 2.450 GHz. Emissions of center frequency attenuated by 50 dBc at the band edges



Test Method: FCC Part 15, Subpart C, 15.249 (c), Occupied Bandwidth.
Notes: Channel D 2.468 GHz. Emissions of center frequency attenuated by 50 dBc at the band edges

Radiated Emissions, Spurious Case
Test Data

Test Method:	FCC Part 15 Subpart C, Spurious Case Radiated Emissions, Paragraph 15.209(a)		
Customer:	X-10 (USA), Inc.	**Job No.**	R-11571-1
Test Sample:	2.4GHz FM Transmitter		
Model No.:	VT46A	**FCC ID.:**	B4SVT46A
Operating Mode:	Continuously transmitting an FM signal at 2.414, 2.450 and 2.468 GHz		
Technician:	D. Lerner	**Date:**	August 17, 2006

Notes: Test Distance: 3 Meters Temp: 26 C Humidity: 50%
Detector: Quasi-Peak Below 30 MHz to 1 GHz, Peak above 1 GHz

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Correction Factor	Corrected Reading	Converted Reading	LIMIT
MHz	(V/H) /	Degrees	dBuV	dB	dBuV/m	uV/m	uV/m
30.00							100
88.00							100
88.00							150
216.00							150
216.00							200
960.00							200
960.00							500
25000.0							500

No Emissions observed at the specified test distance

The EUT was scanned from 30 MHz to 25 GHz
The emissions observed from the EUT do not exceed the specified limits. Emissions not recorded were more than 20dB under the specified limit

Radiated Emissions, Fundamental and Harmonics, Channel A
Test Data

Test Method:	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions		
Customer:	X-10 (USA), Inc.	**Job No.**	R-11571-1
Test Sample:	2.4GHz FM Transmitter	**Paragraph**	15.249
Model No.:	VT46A	**FCC ID:**	B4SVT46A
Operating Mode:	Continuously transmitting a 2.414 GHz FM signal, channel A		
Technician:	D. Lerner	**Date:**	August 15, 2006

Notes: Test Distance: 3 Meters **=Readings taken @ 1 meter, correction factors includes test
Detector: Peak, Unless otherwise specified

Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Average Limit
GHz	(V/H)/Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
2.414	H / 1.5	X	84.5	-1.5	83.0	14125.4	50000
|	H / 1.5	Y	84.0	-1.5	82.5	13335.2	|
|	H / 1.0	Z	87.0	-1.5	85.5	18836.5	|
|	V / 1.0	X	90.5	-1.5	89.0	28183.8	|
|	V / 1.5	Y	86.0	-1.5	84.5	16788.0	|
2.414	V / 1.0	Z	90.0	-1.5	88.5	26607.3	50000
4.828	H / 1.0	X	37.0	4.0	41.0	112.2	500
|	H / 1.5	Y	41.2	4.0	45.2	182.0	|
|	H / 1.0	Z	40.0	4.0	44.0	158.5	|
|	V / 1.0	X	36.0	4.0	40.0	100.0	|
|	V / 1.0	Y	32..0	4.0	36.0	63.1	|
4.828	V / 1.0	Z	33.0	4.0	37.0	70.8	500
7.242	H / 1.0	X	30.8	7.7	38.5	84.1 *	500
|	H / 1.0	Y	30.8	7.7	38.5	84.1 *	|
|	H / 1.0	Z	30.8	7.7	38.5	84.1 *	|
|	V / 1.0	X	30.8	7.7	38.5	84.1 *	|
|	V / 1.0	Y	30.8	7.7	38.5	84.1 *	|
7.242	V / 1.0	Z	30.8	7.7	38.5	84.1 *	500
9.656	H / 1.0	X	32.0	12.3	44.3	164.1 *	500
|	H / 1.0	Y	32.0	12.3	44.3	164.1 *	|
|	H / 1.0	Z	32.0	12.3	44.3	164.1 *	|
|	V / 1.0	X	32.0	12.3	44.3	164.1 *	|
|	V / 1.0	Y	32.0	12.3	44.3	164.1 *	|
9.656	V / 1.0	Z	32.0	12.3	44.3	164.1 *	500
12,070	H / 1.0	X	31.0	14.2	45.2	182.0 *	500
|	H / 1.0	Y	31.0	14.2	45.2	182.0 *	|
|	H / 1.0	Z	31.0	14.2	45.2	182.0 *	|
|	V / 1.0	X	31.0	14.2	45.2	182.0 *	|
|	V / 1.0	Y	31.0	14.2	45.2	182.0 *	|
12,070	V / 1.0	Z	31.0	14.2	45.2	182.0 *	500

The frequency range was scanned from 30 MHz to 25 GHz. All emissions not recorded were
Than 20 dB below the specified limit. Emissions from the EUT do not exceed the specified
*=Noise Floor Measurements (Minimum system sensitivity), RBW=100 kHz

Test Method:	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions		
Customer:	X-10 (USA), Inc.	**Job No.**	R-11571-1
Test Sample:	2.4GHz FM Transmitter	**Paragraph**	15.249
Model No.:	VT46A	**FCC ID:**	B4SVT46A
Operating Mode:	Continuously transmitting a 2.414 GHz FM signal, channel A		
Technician:	D. Lerner	**Date:**	August 15, 2006

Notes: Test Distance: 3 Meters **=Readings taken @ 1 meter, correction factors includes test
Detector: Peak, Unless otherwise specified

Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Average Limit
GHz	(V/H)/Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
14,484	H / 1.0	X	30.7	16.4	47.9	248.3 *	500
|	H / 1.0	Y	30.7	16.4	47.9	248.3 *	|
|	H / 1.0	Z	30.7	16.4	47.9	248.3 *	|
|	V / 1.0	X	30.7	16.4	47.9	248.3 *	|
|	V / 1.0	Y	30.7	16.4	47.9	248.3 *	|
14,484	V / 1.0	Z	30.7	16.4	47.9	248.3 *	500
16,898	H / 1.0	X	30.8	17.0	47.8	245.5 *	500
|	H / 1.0	Y	30.8	17.0	47.8	245.5 *	|
|	H / 1.0	Z	30.8	17.0	47.8	245.5 *	|
|	V / 1.0	X	30.8	17.0	47.8	245.5 *	|
|	V / 1.0	Y	30.8	17.0	47.8	245.5 *	|
16,898	V / 1.0	Z	30.8	17.0	47.8	245.5 *	500
19,312	H / 1.0	X	30.8	22.9	53.7	484.2**	500
|	H / 1.0	Y	30.8	22.9	53.7	484.2**	|
|	H / 1.0	Z	30.8	22.9	53.7	484.2**	|
|	V / 1.0	X	30.8	22.9	53.7	484.2**	|
|	V / 1.0	Y	30.8	22.9	53.7	484.2**	|
19,312	V / 1.0	Z	30.8	22.9	53.7	484.2**	500
21,726	H / 1.0	X	30.0	23.2	53.2	457.1**	500
|	H / 1.0	Y	30.0	23.2	53.2	457.1**	|
|	H / 1.0	Z	30.0	23.2	53.2	457.1**	|
|	V / 1.0	X	30.0	23.2	53.2	457.1**	|
|	V / 1.0	Y	30.0	23.2	53.2	457.1**	|
21,726	V / 1.0	Z	30.0	23.2	53.2	457.1**	500
24,140	H / 1.0	X	29.3	23.4	52.7	431.5**	500
|	H / 1.0	Y	29.3	23.4	52.7	431.5**	|
|	H / 1.0	Z	29.3	23.4	52.7	431.5**	|
|	V / 1.0	X	29.3	23.4	52.7	431.5**	|
|	V / 1.0	Y	29.3	23.4	52.7	431.5**	|
24,140	V / 1.0	Z	29.3	23.4	52.7	431.5**	500

The frequency range was scanned from 30 MHz to 25 GHz. All emissions not recorded were
Than 20 dB below the specified limit. Emissions from the EUT do not exceed the specified
*=Noise Floor Measurements (Minimum system sensitivity), RBW=100 kHz

Radiated Emissions, Fundamental and Harmonics, Channel C
Test Data

Test Method:	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions		
Customer:	X-10 (USA), Inc.	**Job No.**	R-11571-1
Test Sample:	2.4GHz FM Transmitter	**Paragraph**	15.249
Model No.:	VT46A	**FCC ID:**	B4SVT46A
Operating Mode:	Continuously transmitting a 2.450 GHz FM signal, channel C		
Technician:	D. Lerner	**Date:**	August 17, 2006

Notes: Test Distance: 3 Meters **=Readings taken @ 1 meter, correction factors includes test
Detector: Peak, Unless otherwise specified

Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Average Limit
GHz	(V/H)/Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
2,450	H / 1.5	X	80.3	-1.5	78.8	8709.6	50000
|	H / 1.5	Y	79.3	-1.5	77.8	7762.5	|
|	H / 1.0	Z	87.5	-1.5	86.0	19952.6	|
|	V / 1.0	X	88.0	-1.5	86.5	21134.9	|
|	V / 1.5	Y	84.0	-1.5	82.5	13335.2	|
2,450	V / 1.0	Z	85.0	-1.5	83.5	14962.4	50000
4.900	H / 1.0	X	42.5	4.0	46.5	211.3	500
|	H / 1.5	Y	41.0	4.0	44.0	158.5	|
|	H / 1.0	Z	44.0	4.0	48.0	251.2	|
|	V / 1.0	X	43.0	4.0	47.0	223.9	|
|	V / 1.0	Y	41.4	4.0	45.4	186.2	|
4,900	V / 1.0	Z	41.0	4.0	44.0	158.5	500
7,350	H / 1.0	X	30.8	7.7	38.5	84.1 *	500
|	H / 1.0	Y	30.8	7.7	38.5	84.1 *	|
|	H / 1.0	Z	30.8	7.7	38.5	84.1 *	|
|	V / 1.0	X	30.8	7.7	38.5	84.1 *	|
|	V / 1.0	Y	30.8	7.7	38.5	84.1 *	|
7,350	V / 1.0	Z	30.8	7.7	38.5	84.1 *	500
9,800	H / 1.0	X	32.0	12.3	44.3	164.1 *	500
|	H / 1.0	Y	32.0	12.3	44.3	164.1 *	|
|	H / 1.0	Z	32.0	12.3	44.3	164.1 *	|
|	V / 1.0	X	32.0	12.3	44.3	164.1 *	|
|	V / 1.0	Y	32.0	12.3	44.3	164.1 *	|
9,800	V / 1.0	Z	32.0	12.3	44.3	164.1 *	500
12,250	H / 1.0	X	31.0	14.2	45.2	182.0 *	500
|	H / 1.0	Y	31.0	14.2	45.2	182.0 *	|
|	H / 1.0	Z	31.0	14.2	45.2	182.0 *	|
|	V / 1.0	X	31.0	14.2	45.2	182.0 *	|
|	V / 1.0	Y	31.0	14.2	45.2	182.0 *	|
12,250	V / 1.0	Z	31.0	14.2	45.2	182.0 *	500

The frequency range was scanned from 30 MHz to 25 GHz. All emissions not recorded were
Than 20 dB below the specified limit. Emissions from the EUT do not exceed the specified
*=Noise Floor Measurements (Minimum system sensitivity), RBW=100 kHz

Test Method:	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions		
Customer:	X-10 (USA), Inc.	**Job No.**	R-11571-1
Test Sample:	2.4GHz FM Transmitter	**Paragraph**	15.249
Model No.:	VT46A	**FCC ID:**	B4SVT46A
Operating Mode:	Continuously transmitting a 2.450 GHz FM signal, channel C		
Technician:	D. Lerner	**Date:**	August 17, 2006

Notes: Test Distance: 3 Meters **=Readings taken @ 1 meter, correction factors includes test
Detector: Peak, Unless otherwise specified

Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Average Limit
GHz	(V/H)/Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
14,700	H / 1.0	X	30.7	16.4	47.9	248.3 *	500
|	H / 1.0	Y	30.7	16.4	47.9	248.3 *	|
|	H / 1.0	Z	30.7	16.4	47.9	248.3 *	|
|	V / 1.0	X	30.7	16.4	47.9	248.3 *	|
|	V / 1.0	Y	30.7	16.4	47.9	248.3 *	|
14,700	V / 1.0	Z	30.7	16.4	47.9	248.3 *	500
17,150	H / 1.0	X	30.8	17.0	47.8	245.5 *	500
|	H / 1.0	Y	30.8	17.0	47.8	245.5 *	|
|	H / 1.0	Z	30.8	17.0	47.8	245.5 *	|
|	V / 1.0	X	30.8	17.0	47.8	245.5 *	|
|	V / 1.0	Y	30.8	17.0	47.8	245.5 *	|
17,150	V / 1.0	Z	30.8	17.0	47.8	245.5 *	500
19,600	H / 1.0	X	30.8	22.9	53.7	484.2**	500
|	H / 1.0	Y	30.8	22.9	53.7	484.2**	|
|	H / 1.0	Z	30.8	22.9	53.7	484.2**	|
|	V / 1.0	X	30.8	22.9	53.7	484.2**	|
|	V / 1.0	Y	30.8	22.9	53.7	484.2**	|
19,600	V / 1.0	Z	30.8	22.9	53.7	484.2**	500
22,050	H / 1.0	X	30.0	23.2	53.2	457.1**	500
|	H / 1.0	Y	30.0	23.2	53.2	457.1**	|
|	H / 1.0	Z	30.0	23.2	53.2	457.1**	|
|	V / 1.0	X	30.0	23.2	53.2	457.1**	|
|	V / 1.0	Y	30.0	23.2	53.2	457.1**	|
22,050	V / 1.0	Z	30.0	23.2	53.2	457.1**	500
24,500	H / 1.0	X	29.3	23.4	52.7	431.5**	500
|	H / 1.0	Y	29.3	23.4	52.7	431.5**	|
|	H / 1.0	Z	29.3	23.4	52.7	431.5**	|
|	V / 1.0	X	29.3	23.4	52.7	431.5**	|
|	V / 1.0	Y	29.3	23.4	52.7	431.5**	|
24,500	V / 1.0	Z	29.3	23.4	52.7	431.5**	500

The frequency range was scanned from 30 MHz to 25 GHz. All emissions not recorded were
Than 20 dB below the specified limit. Emissions from the EUT do not exceed the specified
*=Noise Floor Measurements (Minimum system sensitivity), RBW=100 kHz

Radiated Emissions, Fundamental and Harmonics, Channel D
Test Data

Test Method:	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions		
Customer:	X-10 (USA), Inc.	**Job No.**	R-11571-1
Test Sample:	2.4GHz FM Transmitter	**Paragraph**	15.249
Model No.:	VT46A	**FCC ID:**	B4SVT46A
Operating Mode:	Continuously transmitting a 2.468 GHz FM signal, channel D		
Technician:	D. Lerner	**Date:**	August 17, 2006

Notes: Test Distance: 3 Meters **=Readings taken @ 1 meter, correction factors includes test
Detector: Peak, Unless otherwise specified

Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Average Limit
GHz	(V/H)/Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
2,468	H / 1.5	X	82.8	-1.5	81.3	11614.5	50000
|	H / 1.5	Y	86.4	-1.5	84.9	17579.2	|
|	H / 1.0	Z	84.0	-1.5	83.5	14962.4	|
|	V / 1.5	X	87.8	-1.5	86.3	20653.8	|
|	V / 1.5	Y	86.5	-1.5	85.0	17782.8	|
2,468	V / 1.0	Z	85.0	-1.5	83.5	14962.4	50000
4,936	H / 1.0	X	44.0	4.0	48.0	251.2	500
|	H / 1.5	Y	44.5	4.0	48.5	266.1	|
|	H / 1.0	Z	44.0	4.0	48.0	251.2	|
|	V / 1.5	X	44.2	4.0	48.2	257.0	|
|	V / 1.0	Y	44.1	4.0	48.1	254.1	|
4,936	V / 1.0	Z	44.0	4.0	48.0	251.2	500
7,404	H / 1.0	X	30.8	7.7	38.5	84.1 *	500
|	H / 1.0	Y	30.8	7.7	38.5	84.1 *	|
|	H / 1.0	Z	30.8	7.7	38.5	84.1 *	|
|	V / 1.0	X	30.8	7.7	38.5	84.1 *	|
|	V / 1.0	Y	30.8	7.7	38.5	84.1 *	|
7,404	V / 1.0	Z	30.8	7.7	38.5	84.1 *	500
9,872	H / 1.0	X	32.0	12.3	44.3	164.1 *	500
|	H / 1.0	Y	32.0	12.3	44.3	164.1 *	|
|	H / 1.0	Z	32.0	12.3	44.3	164.1 *	|
|	V / 1.0	X	32.0	12.3	44.3	164.1 *	|
|	V / 1.0	Y	32.0	12.3	44.3	164.1 *	|
9,872	V / 1.0	Z	32.0	12.3	44.3	164.1 *	500
12,340	H / 1.0	X	31.0	14.2	45.2	182.0 *	500
|	H / 1.0	Y	31.0	14.2	45.2	182.0 *	|
|	H / 1.0	Z	31.0	14.2	45.2	182.0 *	|
|	V / 1.0	X	31.0	14.2	45.2	182.0 *	|
|	V / 1.0	Y	31.0	14.2	45.2	182.0 *	|
12,340	V / 1.0	Z	31.0	14.2	45.2	182.0 *	500

The frequency range was scanned from 30 MHz to 25 GHz. All emissions not recorded were
Than 20 dB below the specified limit. Emissions from the EUT do not exceed the specified
*=Noise Floor Measurements (Minimum system sensitivity), RBW=100 kHz

Test Method:	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions		
Customer:	X-10 (USA), Inc.	**Job No.**	R-11571-1
Test Sample:	2.4GHz FM Transmitter	**Paragraph**	15.249
Model No.:	VT46A	**FCC ID:**	B4SVT46A
Operating Mode:	Continuously transmitting a 2.468 GHz FM signal, channel D		
Technician:	D. Lerner	**Date:**	August 17, 2006

Notes: Test Distance: 3 Meters **=Readings taken @ 1 meter, correction factors includes test
Detector: Peak, Unless otherwise specified

Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Average Limit
GHz	(V/H)/Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
14,808	H / 1.0	X	30.7	16.4	47.9	248.3 *	500
|	H / 1.0	Y	30.7	16.4	47.9	248.3 *	|
|	H / 1.0	Z	30.7	16.4	47.9	248.3 *	|
|	V / 1.0	X	30.7	16.4	47.9	248.3 *	|
|	V / 1.0	Y	30.7	16.4	47.9	248.3 *	|
14,808	V / 1.0	Z	30.7	16.4	47.9	248.3 *	500
17,276	H / 1.0	X	30.8	17.0	47.8	245.5 *	500
|	H / 1.0	Y	30.8	17.0	47.8	245.5 *	|
|	H / 1.0	Z	30.8	17.0	47.8	245.5 *	|
|	V / 1.0	X	30.8	17.0	47.8	245.5 *	|
|	V / 1.0	Y	30.8	17.0	47.8	245.5 *	|
17,276	V / 1.0	Z	30.8	17.0	47.8	245.5 *	500
19,744	H / 1.0	X	30.8	22.9	53.7	484.2**	500
|	H / 1.0	Y	30.8	22.9	53.7	484.2**	|
|	H / 1.0	Z	30.8	22.9	53.7	484.2**	|
|	V / 1.0	X	30.8	22.9	53.7	484.2**	|
|	V / 1.0	Y	30.8	22.9	53.7	484.2**	|
19,744	V / 1.0	Z	30.8	22.9	53.7	484.2**	500
22,212	H / 1.0	X	30.0	23.2	53.2	457.1**	500
|	H / 1.0	Y	30.0	23.2	53.2	457.1**	|
|	H / 1.0	Z	30.0	23.2	53.2	457.1**	|
|	V / 1.0	X	30.0	23.2	53.2	457.1**	|
|	V / 1.0	Y	30.0	23.2	53.2	457.1**	|
22,212	V / 1.0	Z	30.0	23.2	53.2	457.1**	500
24,680	H / 1.0	X	29.3	23.4	52.7	431.5**	500
|	H / 1.0	Y	29.3	23.4	52.7	431.5**	|
|	H / 1.0	Z	29.3	23.4	52.7	431.5**	|
|	V / 1.0	X	29.3	23.4	52.7	431.5**	|
|	V / 1.0	Y	29.3	23.4	52.7	431.5**	|
24,680	V / 1.0	Z	29.3	23.4	52.7	431.5**	500

The frequency range was scanned from 30 MHz to 25 GHz. All emissions not recorded were
Than 20 dB below the specified limit. Emissions from the EUT do not exceed the specified
*=Noise Floor Measurements (Minimum system sensitivity), RBW=100 kHz