**Exhibit P: Spurious RF Conducted Emissions** 

**FCC ID: P6I-COPYCAM** 

# **Spurious RF Conducted Emissions**

Revision 2/4/02

#### **Justification**

The individuals and/or the organization requesting the test provided the modes, configurations and settings available to evaluate. All of the EUT parameters listed below were investigated. This includes, but may not be limited to, antennas, tuned transmit frequency ranges, operating modes, and data rates.

Channels in Specified Band Investigated:
Low
Mid
High

## Operating Modes Investigated:

No Hop

### **Data Rates Investigated:**

Maximum

#### **Output Power Setting(s) Investigated:**

Maximum

#### **Power Input Settings Investigated:**

120 VAC, 60 Hz.

Frequency Range In	vestigated		
Start Frequency	0 MHz	Stop Frequency	25 GHz

Software\Firmware A	Applied During Test					
Exercise software	Special Test Software	Version	Unknown			
Description						
The system was tested using special software developed to test all functions of the device during the test.						
Ths software allowe the unit to be placed in a no hop mode and set to the low, mid, and high transmit						
channel						

#### **Equipment Modifications**

No EMI suppression devices were added or modified. The EUT was tested as delivered.

### **EUT and Peripherals**

Description	Manufacturer	Model/Part Number	Serial Number
EUT	Polyvision	CopyCam	E0200066
Control Pad	Polyvision	N/A	N/A
AC Power Adapter	Ault, Inc	P48151000A000G	N/A

# **Spurious RF Conducted Emissions**

Revision 2/4/02

#### **Cables**

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Ethernet	No	3.6	No	Control Pad	EUT
DC Power	No	4.4	No	EUT	AC Adapter

PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.

#### **Measurement Equipment**

Description	Manufacturer	Model	Identifier	Last Cal	Interval
Spectrum Analyzer	Tektronix	2784	AAO	03/08/2001	24 mo

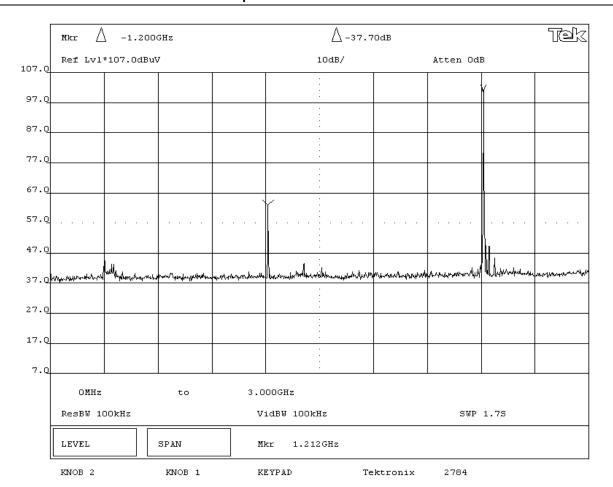
#### **Test Description**

**Requirement**: Per 47 CFR 15.247(c), in any 100 kHz bandwidth outside the authorized band, the maximum level of radio frequency power must be at least 20dB down from the highest emission level within the authorized band. The measurement is made with the spectrum analyzer's resolution bandwidth set to 100 kHz, and the video bandwidth set to greater than or equal to the resolution bandwidth.

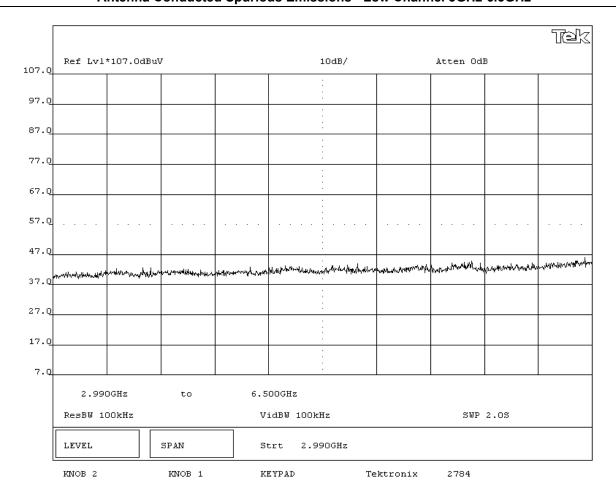
**Configuration**: The spurious RF conducted emissions were measured with the EUT set to low, medium, and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum output power and maximum data rate in a no hop mode. For each transmit frequency, the spectrum was scanned throughout the specified frequency.

Completed by:

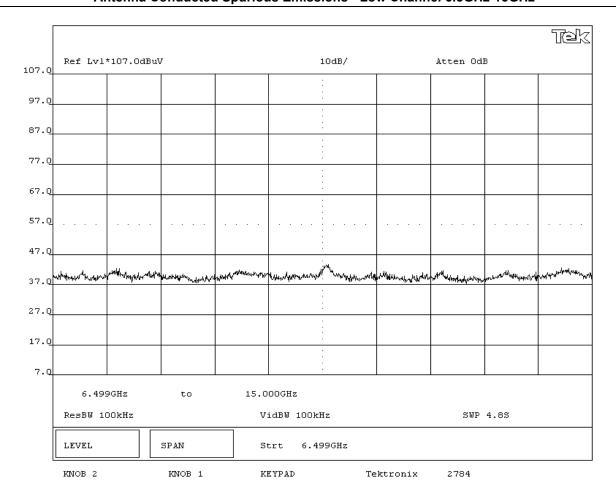
EMC		<b>EMISSIONS</b>	DATA SH	EET		Rev BETA
	CopyCam				Work Order:	01/30/01 POLV0012
Serial Number:						02/21/02
	PolyVision Corporation					23 degrees C
	Guy Williams		To ake al hour	Rod Peloquin	Humidity:	
Customer Ref. No.:	· · · · · · · · · · · · · · · · · · ·		Power:		Job Site:	
TEST SPECIFICATION			Power	N/A	Job Site:	E V 0 6
	47 CFR 15.247(c)	Year: Most Current	Method:	DA 00-705, ANSI C63.4	Voar	1992
SAMPLE CALCULATI		rear. Most Guirent	Metriou.	DA 00-703, ANSI 003.4	Tear.	1332
COMMENTS  EUT OPERATING MO						
	t maximum data rate. Maximum o	output power.				
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS	converse emission sutside of the	authorized band is 20 dB down f	rom the fundamental			
RESULTS	spurious emission outside of the	e autilorized band is 20 dB down i	Tom the fundamental			
			_			
Pass						
SIGNATURE						
Tested By	Rolly be Feling	<u> </u>				
DESCRIPTION OF TE	ST					
	Antenna Con	ducted Spurious En	nissions - Lov	v Channel 0M	Hz-3GHz	·



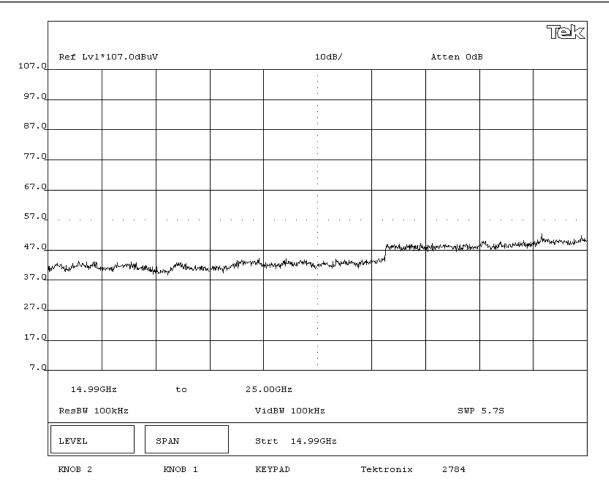
EMC	<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01
EUT: CopyCam				Work Order:	POLV0012
Serial Number: E0200066				Date:	02/21/02
Customer: PolyVision Corporation				Temperature:	23 degrees C
Attendees: Guy Williams		Tested by:	Rod Peloquin	Humidity:	38% RH
Customer Ref. No.: N/A		Power:	N/A	Job Site:	EV06
TEST SPECIFICATIONS					
Specification: 47 CFR 15.247(c)	Year: Most Current	Method:	DA 00-705, ANSI C63.4	Year:	1992
SAMPLE CALCULATIONS					
COMMENTS					
EUT OPERATING MODES					
EUT OPERATING MODES  Modulated by PRBS at maximum data rate. Maximum	output nower				
DEVIATIONS FROM TEST STANDARD	output power.				
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the	ne authorized band is 20 dB down fr	om the fundamental			
RESULTS					
Pass					
SIGNATURE					
Rocky la Frely Tosted By:	٠ ٦				
DESCRIPTION OF TEST  Antenna Cond	ucted Spurious Emi	ssions . I ow	Channel 3GH	z-6 5GHz	



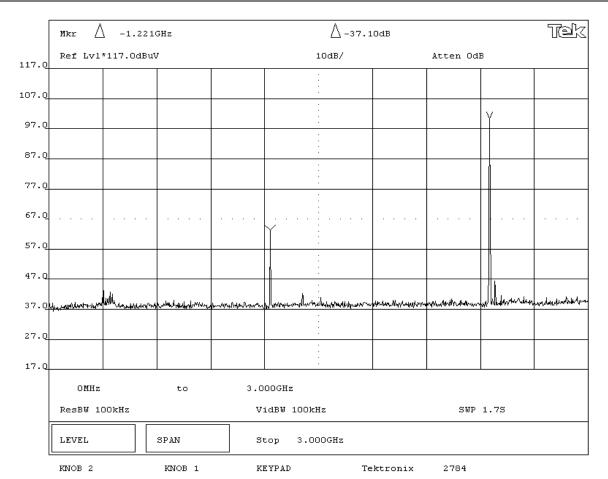
EMC		<b>EMISSIONS</b> I	DATA SH	EET		Rev BETA 01/30/01
EUT:	CopyCam				Work Order:	POLV0012
Serial Number:					Date:	02/21/02
Customer:	PolyVision Corporation				Temperature:	23 degrees C
Attendees:	Guy Williams		Tested by:	Rod Peloquin	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	N/A	Job Site:	EV06
TEST SPECIFICATION	NS					
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	DA 00-705, ANSI C63.4	Year:	1992
SAMPLE CALCULATI	ONS					
COMMENTS						
EUT OPERATING MO	DES					
	at maximum data rate. Maximum d	output power.				
DEVIATIONS FROM T		The second secon				
None						
REQUIREMENTS						
Maximum level of any	spurious emission outside of the	authorized band is 20 dB down from	om the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	Rolly be Reley	<u> </u>				
DESCRIPTION OF TE		oto d Onessia se Essia		Ohamal 6 50	U- 450U-	
l	Antenna Condii	cted Spurious Fmis	SIONS - I OW	Channel 6 5(i	H7-15(iH7	



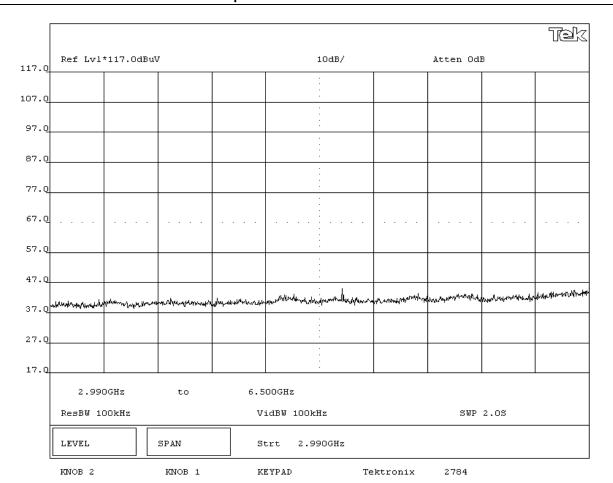
EMC		<b>EMISSIONS</b> I	DATA SH	EET		Rev BETA 01/30/01
	CopyCam				Work Order:	POLV0012
Serial Number:	E0200066				Date:	02/21/02
Customer	PolyVision Corporation				Temperature:	23 degrees C
Attendees:	Guy Williams		Tested by:	Rod Peloquin	Humidity:	38% RH
Customer Ref. No.:	: N/A		Power:	N/A	Job Site:	EV06
TEST SPECIFICATION	NS					
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	DA 00-705, ANSI C63.4	Year:	1992
SAMPLE CALCULATI	ions					
COMMENTS						
EUT OPERATING MO	DES					
Modulated by PRBS a	at maximum data rate. Maximum o	output power.				
<b>DEVIATIONS FROM T</b>	EST STANDARD					
None						
REQUIREMENTS						
Maximum level of any	spurious emission outside of the	authorized band is 20 dB down from	om the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	Rolly to Reling					
DESCRIPTION OF TE	ST					
	Antenna Conduc	ted Spurious Emis	sions - Low (	Channel 15GH	lz - 25GHz	



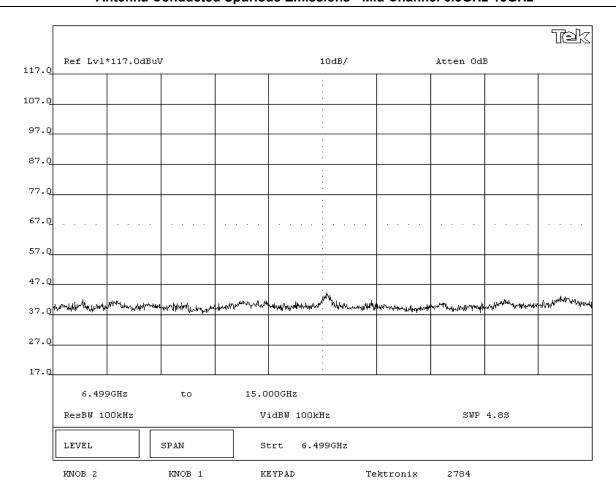
EMC		<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01
	CopyCam				Work Order:	7 77 7
Serial Number:					Date:	02/21/02
Customer:	PolyVision Corporation				Temperature:	23 degrees C
Attendees:	Guy Williams		Tested by:	Rod Peloquin	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	N/A	Job Site:	EV06
TEST SPECIFICATION	is					
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	DA 00-705, ANSI C63.4	Year:	1992
SAMPLE CALCULATION	ONS					
COMMENTS						
<b>EUT OPERATING MOI</b>	DES					
Modulated by PRBS a	t maximum data rate. Maximum o	output power.				
<b>DEVIATIONS FROM T</b>	EST STANDARD					
None						
REQUIREMENTS						
Maximum level of any	spurious emission outside of the	authorized band is 20 dB down fr	om the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	Rolly be Feley	_				
DESCRIPTION OF TES	ST					
	Antenna Cond	lucted Spurious Em	issions - Mid	Channel 0M	Hz-3GHz	



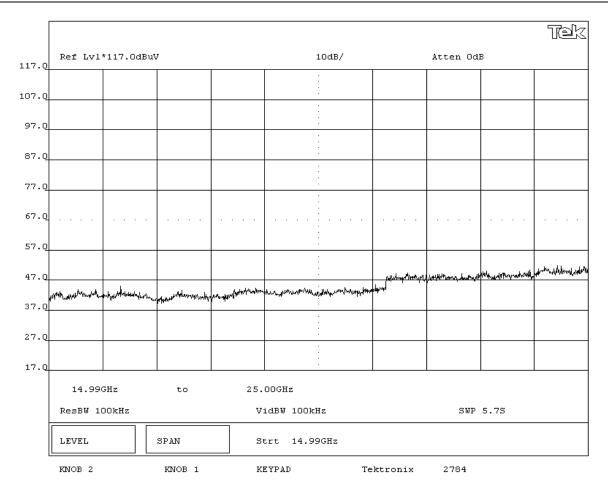
EMC		<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01
EUT	CopyCam				Work Order:	POLV0012
Serial Number:	E0200066				Date:	02/21/02
Customer	PolyVision Corporation				Temperature:	23 degrees C
Attendees:	Guy Williams		Tested by:	Rod Peloquin	Humidity:	38% RH
Customer Ref. No.:	: N/A		Power:	N/A	Job Site:	EV06
<b>TEST SPECIFICATION</b>	NS					
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	DA 00-705, ANSI C63.4	Year:	1992
SAMPLE CALCULATI	ions					
COMMENTS						
EUT OPERATING MO	DES					
Modulated by PRBS a	at maximum data rate. Maximum o	output power.				
<b>DEVIATIONS FROM T</b>	EST STANDARD					
None						
REQUIREMENTS						
Maximum level of any	spurious emission outside of the	authorized band is 20 dB down fr	om the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	Rolly be Rely	77				
DESCRIPTION OF TE	ST					
	Antenna Condu	ucted Spurious Emi	issions - Mid	<b>Channel 3GH</b>	z-6.5GHz	



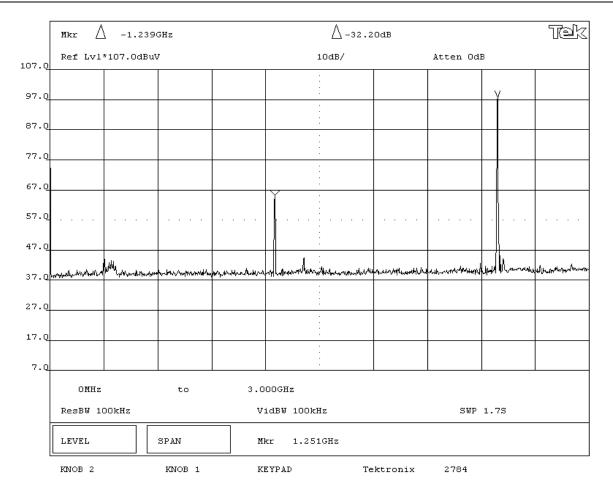
EMC		<b>EMISSIONS</b> I	DATA SH	EET		Rev BETA 01/30/01
	СоруСат				Work Order:	POLV0012
Serial Number:					Date:	02/21/02
Customer:	PolyVision Corporation				Temperature:	23 degrees C
Attendees:	Guy Williams		Tested by:	Rod Peloquin	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	N/A	Job Site:	
TEST SPECIFICATION	NS .					
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	DA 00-705, ANSI C63.4	Year:	1992
SAMPLE CALCULATI	ONS					
COMMENTS						
EUT OPERATING MO						
	t maximum data rate. Maximum o	utput power.				
DEVIATIONS FROM T None	EST STANDARD					
REQUIREMENTS						
	enurious emission outside of the	authorized band is 20 dB down fr	om the fundamental			
RESULTS	Sparrous critication database of the	dutionized band is 20 dB down in	om the fundamental			
Pass						
SIGNATURE						
Tested By:	Rolly be Rely	<del>,</del> ح				
DESCRIPTION OF TE	ST					
	Antenna Condu	cted Spurious Emis	ssions - Mid (	Channel 6 5GF	1z-15GHz	



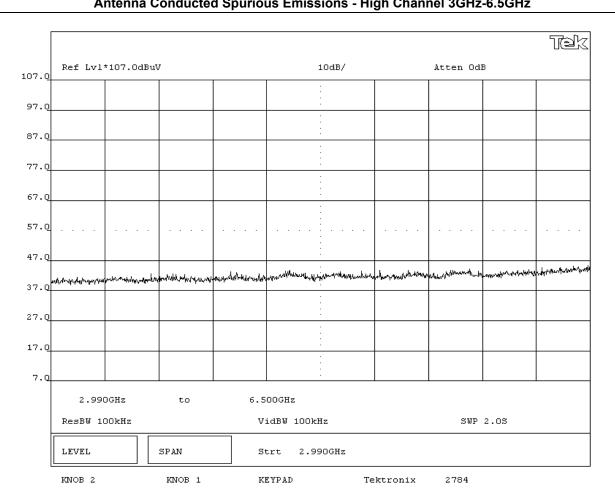
EMC		<b>EMISSIONS</b> I	DATA SH	EET		Rev BETA 01/30/01
EUT:	CopyCam				Work Order:	POLV0012
Serial Number:	Serial Number: E0200066					02/21/02
Customer:	PolyVision Corporation				Temperature:	23 degrees C
Attendees:	Attendees: Guy Williams Tested by: Rod Peloquin					38% RH
Customer Ref. No.:	N/A		Power:	N/A	Job Site:	EV06
TEST SPECIFICATION	NS					
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	DA 00-705, ANSI C63.4	Year:	1992
SAMPLE CALCULATI	ONS					
COMMENTS						
EUT OPERATING MO	DES					
Modulated by PRBS a	at maximum data rate. Maximum d	output power.				
<b>DEVIATIONS FROM T</b>	EST STANDARD					
None						
REQUIREMENTS						
Maximum level of any	spurious emission outside of the	authorized band is 20 dB down fr	om the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	Rolly be Fely	<b>7</b> 7				
DESCRIPTION OF TE	ST					
	Antenna Condu	cted Spurious Emis	ssions - Mid	Channel 15GI	Hz-25GHz	



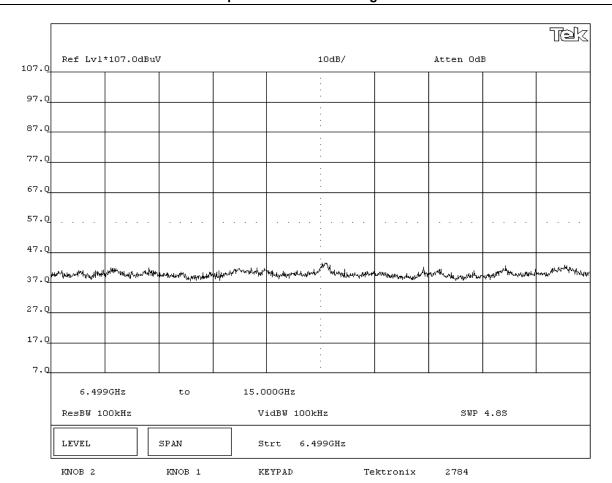
EMC		<b>EMISSIONS I</b>	DATA SH	EET		Rev BETA 01/30/01
	CopyCam				Work Order:	POLV0012
Serial Number:	E0200066				Date:	02/21/02
Customer	PolyVision Corporation				Temperature:	23 degrees C
Attendees:	Guy Williams		Tested by:	Rod Peloquin	Humidity:	38% RH
Customer Ref. No.:	: N/A		Power:	N/A	Job Site:	EV06
TEST SPECIFICATION	NS					
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	DA 00-705, ANSI C63.4	Year:	1992
SAMPLE CALCULATI	IONS					
COMMENTS						
EUT OPERATING MO	DES					
Modulated by PRBS a	at maximum data rate. Maximum o	output power.				
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS						
Maximum level of any	spurious emission outside of the	authorized band is 20 dB down from	om the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	Rody le Feling					
DESCRIPTION OF TE	ST					
	Antenna Condu	ucted Spurious Emi	issions - Higl	n Channel 0M	Hz-3GHz	



EMC		<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01
EUT:	CopyCam	_			Work Order:	POLV0012
Serial Number:	E0200066				Date:	02/21/02
Customer:	PolyVision Corporation				Temperature:	23 degrees C
Attendees:	Guy Williams		Tested by:	Rod Peloquin	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	N/A	Job Site:	EV06
TEST SPECIFICATION	s					
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	DA 00-705, ANSI C63.4	Year:	1992
SAMPLE CALCULATI	ons					
COMMENTS						
EUT OPERATING MO						
	t maximum data rate. Maximum	output power.				
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS						
RESULTS	spurious emission outside of tr	ne authorized band is 20 dB down fr	om the fundamental			
			_			
Pass SIGNATURE						
Tested By:	Rolly be Rollings					
DESCRIPTION OF TE	ST					
i	Antenna Condi	ucted Shurious Emis	seione - Hiah	Channel 3GF	17-6 5GHz	



EMC		EMISSIONS I	DATA SH	EET		Rev BETA 01/30/01
EUT	: CopyCam				Work Order:	POLV0012
Serial Number:	E0200066	E0200066				
Customer	PolyVision Corporation	PolyVision Corporation				
Attendees:	Guy Williams		Tested by:	Rod Peloquin	Humidity:	38% RH
Customer Ref. No.:	: N/A		Power:	N/A	Job Site:	EV06
<b>TEST SPECIFICATION</b>	NS					
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	DA 00-705, ANSI C63.4	Year:	1992
SAMPLE CALCULATI	IONS					
COMMENTS						
COMMENTS						
<b>EUT OPERATING MO</b>	DES					
Modulated by PRBS a	at maximum data rate. Maximum o	output power.				
<b>DEVIATIONS FROM T</b>	EST STANDARD					
None						
REQUIREMENTS						
Maximum level of any	y spurious emission outside of the	authorized band is 20 dB down fr	om the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	Rocky la Releng	<u> </u>				
DESCRIPTION OF TE	ST					
	Antenna Conduc	cted Spurious Emis	sions - High	Channel 6.5G	Hz-15GHz	



EMC		<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01		
EUT:	CopyCam				Work Order:	POLV0012		
Serial Number:	E0200066				Date:	02/21/02		
Customer	PolyVision Corporation				Temperature:	23 degrees C		
Attendees:	Guy Williams		Tested by:	Rod Peloquin	Humidity:	38% RH		
Customer Ref. No.:	N/A		Power:	N/A	Job Site:	EV06		
TEST SPECIFICATION	NS							
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	DA 00-705, ANSI C63.4	Year:	1992		
SAMPLE CALCULATI	ONS							
COMMENTS								
EUT OPERATING MO	DES							
	at maximum data rate. Maximum o	utput power.						
DEVIATIONS FROM T								
None	201 017 1127 112							
REQUIREMENTS								
	spurious emission outside of the	authorized band is 20 dB down fr	om the fundamental					
RESULTS								
Pass								
SIGNATURE								
Rocky be Releys								
DESCRIPTION OF TE								
	Antenna Conduc	cted Spurious Emis	sions - High	Channel 15G	Hz-25GHz			

