

# Test Report

Report No	EG0955-2
Client	Aastra James Wong
Address	155 Snow Boullevard Concord, Ontario L4K 4N9 Canada
Phone	905-760-4203
Items tested	57i CT
FCC ID FRN IC	SDV80-001224 0011302924 1884A-80001224
Emission Designator	783KF1D
Standards Equipment Code	47 CFR FCC Part 15c Section 247; RSS 210 Issue 6 80-001224
Prepared by	Mairaj Hussain – Pest Engineer
Authorized by	Michael Buchholz – EMC Manager
Issue Date	1/5/07
Conditions of Issue	This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 50 of this report.

Curtis-Straus LLC is accredited to ISO/IEC 17025 by A2LA for the specific scope of accreditation under Certificate Number 1627-01. This report may contain data which is not covered by the A2LA accreditation. See our scope of accreditation at the end of this test report. Any opinions or interpretations expressed in this report are outside the scope of our A2LA accreditation as A2LA only accredits testing.



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Form Final Report REV 6-16-06 (DW)

Summary

On August 21 through September 6 of 2006 we tested the 57i CT for compliance with the

following requirements:

**EMC Emissions:** 

• 47 CFR Part 15c Section 15.247

• RSS-210 Issue 6

Registration numbers for all open area test sites can be found in the Test Equipment

Used Section starting on page 43.

This report is an application for certification of a transmitter operating under 47 CFR 15c section

247 of the FCC rules and RSS-210 Issue 6 operating in the frequency range of 2400 –

2483.5MHz. The product covered by this test report is 57i CT base station (MN: 63-0013335-00

Rev XX) for Aastra Telecom Inc.

All testing was performed according to the procedures specified in ANSI C63.4 (2003).

The radio was tested with modulation on. All readings are peak unless otherwise noted. The

product was tested with a representative of AC/DC adapter. AC line conducted emissions were

measured on AC side of AC/DC adapter using a 50μH/50Ω LISN. Peak and average readings

were taken for the fundamental. Furthermore, the fundamental was measured at three

channels, first, mid, and last.

The EUT emissions were fully maximized. The EUT's antenna could not be maximized

separately because it is integral part of the enclosure. Spurious emissions testing was

performed on a non conductive 80cm high table.

We found that the product met the above requirements without modification (see *Modifications* 

Required for Compliance section on page 7). The test sample was received in good condition.

Release Control Record

Issue No. Reason for change

1 Original Release

December 21, 2006

Date Issued

ACCREDITED

Frequency range investigated: 30MHz – 25GHz

Measurement Distance:									
Frequency (MHz)	Distance (m)	Comments							
Fundamental (Three channels) 2401.056, 2440.8, 2482.272MHz	NA	Conducted							
0.15MHz – 30MHz	NA	AC Conducted Emissions							
30MHz – 18GHz	3m	Restricted Band Radiated Spurious Measurements							
18GHz – 25GHz	0.1m	Restricted Band Radiated Spurious							

### **Product Tested - Configuration Documentation**

# **EUT Configuration**

Work Order: G0955

Company: Aastra Telecom Inc.
Company Address: 155 Snow Boulevard

Concord, Ontario, L4K 4N9 Canada

Contact: James Wong

MN SN

EUT: 63-001335-00 Rev XX 57iCTPT7007

Skynet 48V AC/DC Supply WND-4801-AS 10004089

EUT Description: Wireless base for 57iCT IP phone

**EUT Max Frequency:** 2.4GHz

Support Equipment:	MN		SN				
Aastra Ethernet phone	57i		57iPT0007				
NetGear Ethernet hub	DS104	10-	42625S00A	7B			
EUT Cables:	Qty	Shielded?	Shielded? Length Ferrites				
DC power	1	no	1.5m	none	Skynet supply		
AC mains	1	no	10m	none			
Ethernet	1	no	15m	none			
Ethernet	1	no	2m	none			
Handset	1	no	1m	none			
Headset	1	no	2m	none			
Unpopulated EUT Ports:	Qty	Reason					

None

Software / Operating Mode Description:

Continuous Tx/Rx mode.

# **Compliance Statement**

The 57i CT has been found to conform with the following parts of the 47 CFR as detailed below:

RSS GEN / RSS - 210	47 CFR Part #	47 CFR Part #	Comments
5.3		15.15(b)	The product contains no user accessible controls that increase transmission power above allowable levels.
5.2	2.925	15.19	The label is shown in the label exhibit.
7.1.5		15.21	Information to the user is shown in the instruction manual exhibit.
		15.27	No special accessories are required for compliance.
	15.31(e)		The input power was varied from its nominal value (48V DC) to +/- 15%. The respective radiated power was measured see table 1.
7.1.4		15.203	The antenna on the device is permanently attached and is internal to the enclosure.
		15.204	See attached documentation describing the antenna(s).
4.7, 6, & 7.2.3.2		15.205 15.209	The fundamental is not in a Restricted band and the spurious emissions in the Restricted bands comply with the general emission limits of 15.209.
7.2.2		15.207	Conducted EMI data on AC side of DC supply is provided in this report, table.
A8.1(2)	15.247(a)	15.247 (a) (1)	The carrier frequencies are separated by a minimum of 20 dB bandwidth of hopping channel. See attached plot(s).
		15.247 (1) (i)	The EUT does not operate in the 902 -928MHz band.
		15.247 (1) (ii)	The EUT does not operate in the 5725-5850 MHz band.
A8.1(4)		15.247 (1) (iii)	The EUT has 94 hopping frequencies. The EUT complies with the time of occupancy requirements. See attached plot.
10/5: 0	<b></b>	15.247 (2)	The EUT does not use digital modulation.
A8(2) & A8.4(2)	15.247 (b)	15.247 (1)	The EUT complies with POP of 1W.
		15.247 (2)	EUT does not operate in 902 – 908MHz range.
		15.247 (3)	EUT does not use digital modulation.
		15.247 (4)	The antennas used with the product had gain of 1.9dBi.
A8.4(6)	15.247 (c)		EUT antenna's gain is less than 6dBi.

A8.5	15.247 (d)	EUT conducted spurious emissions are 20dB or more below from the fundamental. Spurious emissions in restricted band comply with limits of 15.209(a).
A8.3	15.247 (f)	EUT does not qualify as hybrid system.
	15.247 (g)	See operational description exhibit.
	15.247 (h)	See operational description exhibit.
5.5	15.247 (i)	See RF Exposure exhibit.

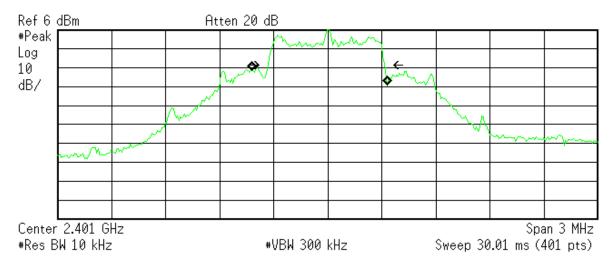
# Modifications Required for Compliance

None required for compliance.

#### Test Data and Plots

#### **20dB BW**

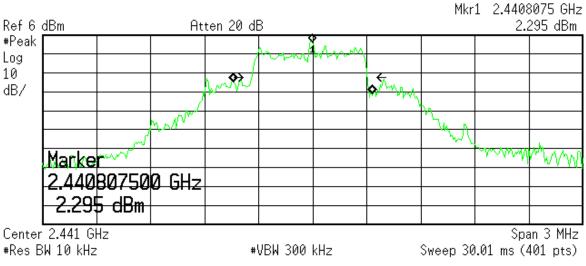
**\* Agilent** 13:40:52 Sep 6, 2006



Occupied Bandwidth 747.6759 kHz Occ BW % Pwr 99.00 % x dB -20.00 dB

Transmit Freq Error −42.819 kHz x dB Bandwidth 649.107 kHz

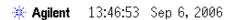


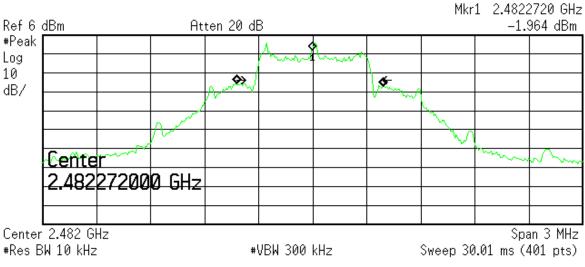


Occupied Bandwidth 771.7321 kHz

Occ BW % Pwr 99.00 % x dB -20.00 dB

Transmit Freq Error -53.101 kHz x dB Bandwidth 646.063 kHz





Occupied Bandwidth 806.1381 kHz Occ BW % Pwr 99.00 % x dB -20.00 dB

Transmit Freq Error -15.727 kHz x dB Bandwidth 654.659 kHz

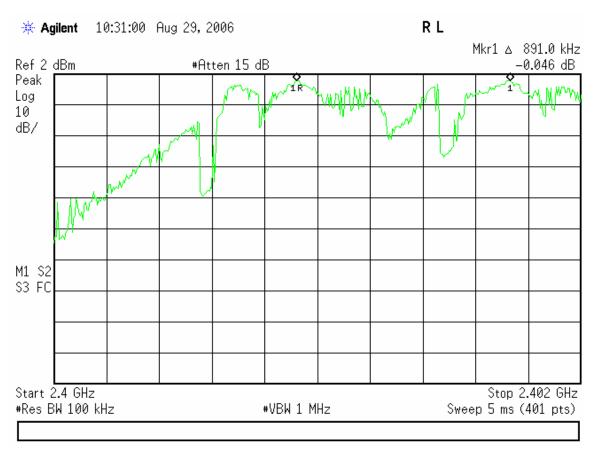
# **Section 15.31(e)**

Table 1

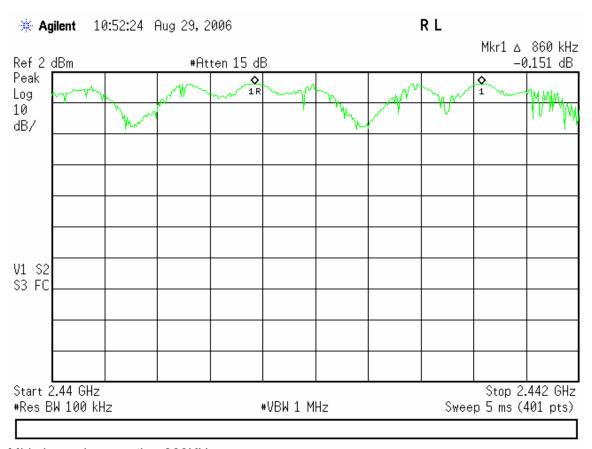
Vo	Voltage Variation							
Company:	Aastra							
Work Order:	G0955							
Engineer:	Mairaj Hussain							
Date:	8/31/2006							
EUT:	57i CT (Basee unit)							
Test Equipment:								
Analyzer:	Brown							
	High 10							
Chamber:								
HP Supply:								
	Fluke 177							
Ext Attenuation:								
	100KHz							
	100KHz							
Detector:	Peak	1						
	Valtana		Laval					
	Voltage		Level					
	(V)		(dBm)					
	48V		3.9					
	40.8		3.85					
	55.2		3.9					

Note: Above POP readings are off of spectrum analyzer and do not take in account for cables loss and any attenuator used.

## Section 15.247 (a) (1)



Channel separation 891KHz for first two channels



Mid channel separation 860KHz

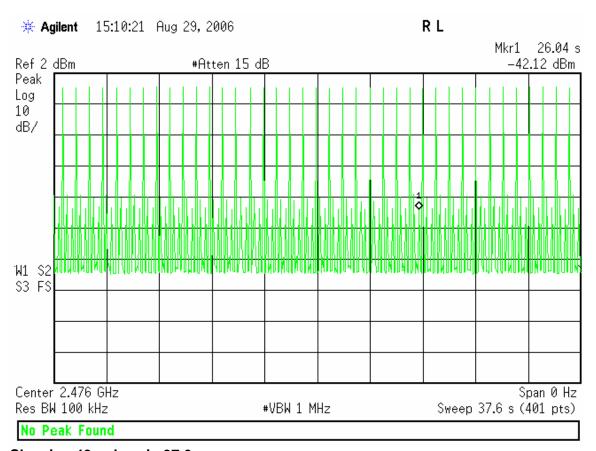
Note: Hopping channel carrier frequencies are separated by a minimum of 20db bandwidth.

# Section 15.247 (a) (1) (i)

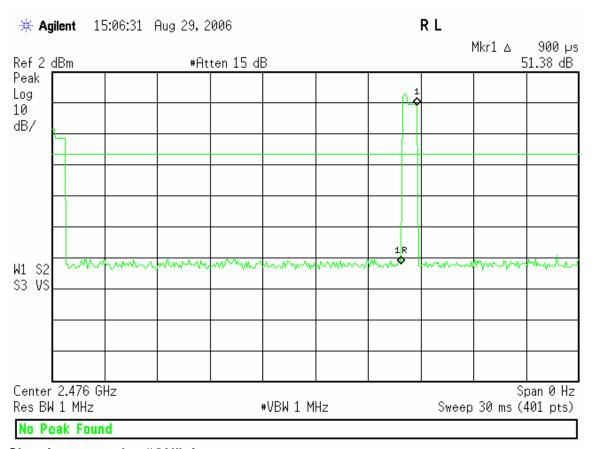
Time of Occupancy/Number of Hopping channels

Time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by number of hopping channels employed.

Number of channels = 94 Total max hop time for 94 channels = 94 \* 0.4 = 37.6 seconds



Showing 40 pulses in 37.6 sec

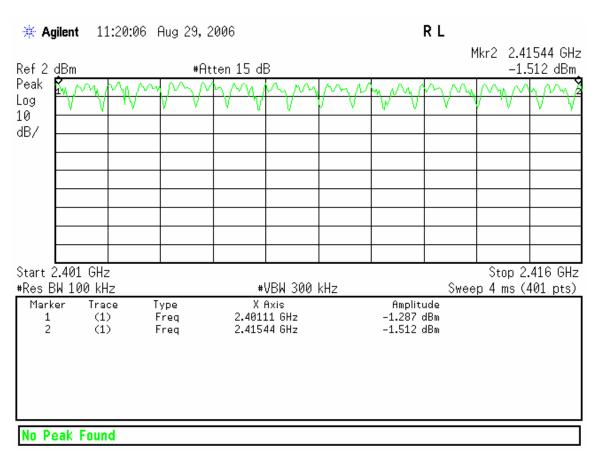


Showing one pulse "ON" time

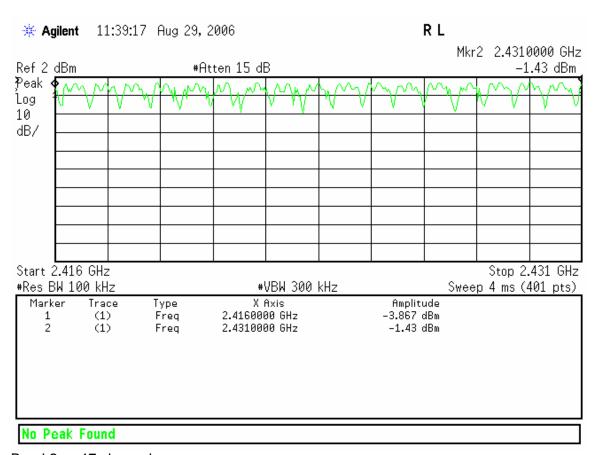
Dwell time = 40 \* 900 usec

Dwell time = 36ms

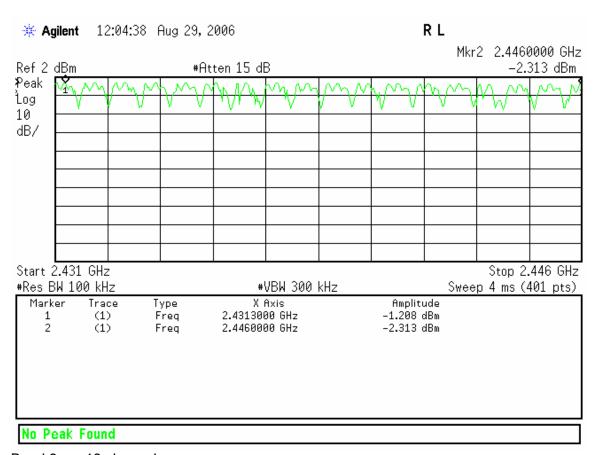




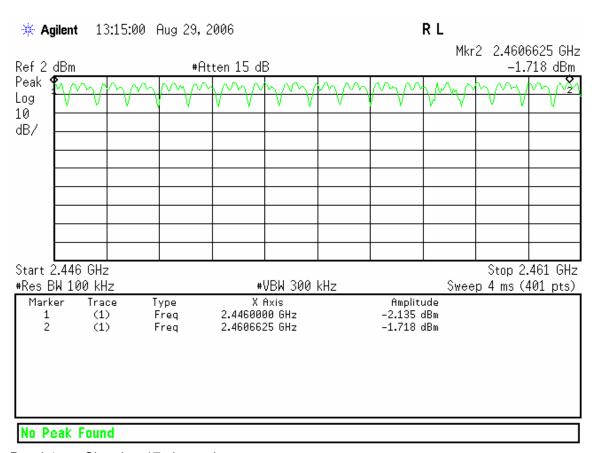
Band 1 --- 18 channels



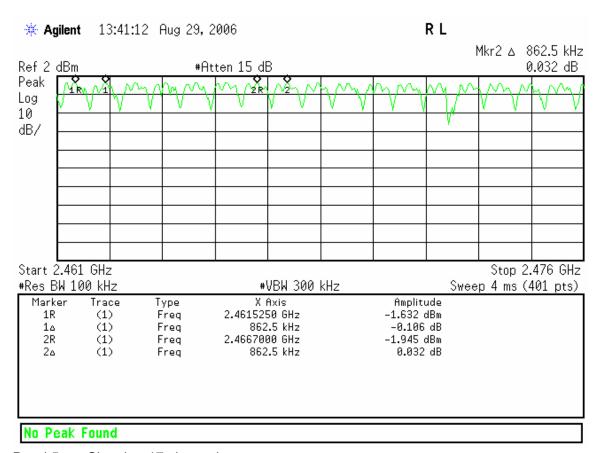
Band 2 --- 17 channels



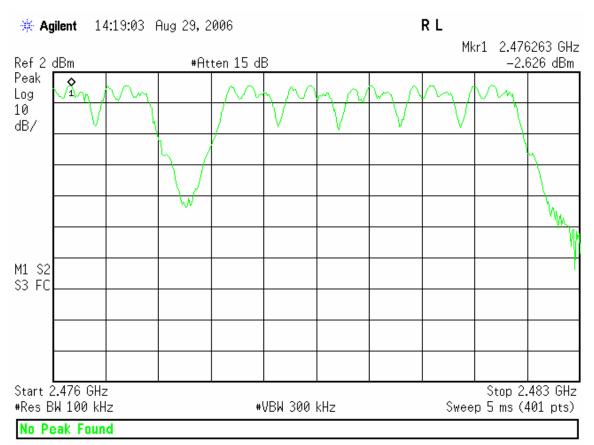
Band 3 ---- 18 channels



Band 4 ---- Showing 17 channels



Band 5 ---- Showing 17 channels



Band 6 – Showing 7 channels **Total Channels 94 counted** 



## Section 15.247 (b)(1)

Peak OutPut Power (POP)

#### Table 2

POP

Company: Aastra Work Order: G0955

**Date:** 8/28/2006 **EUT:** 57i CT (Base unit)

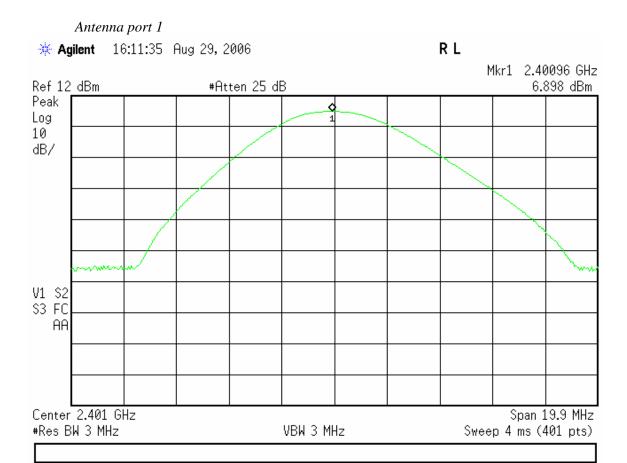
Test Equipment:

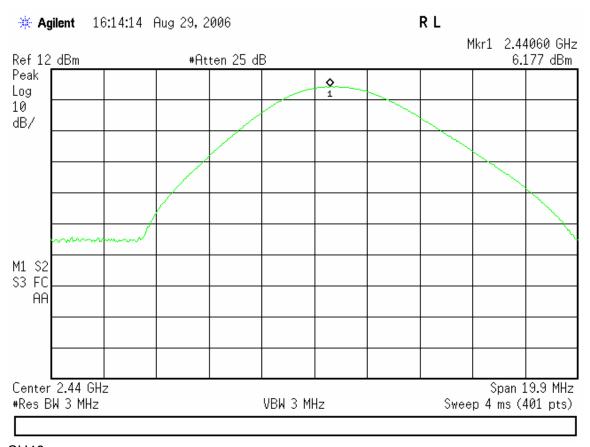
Analyzer: Brown Cable: High 05

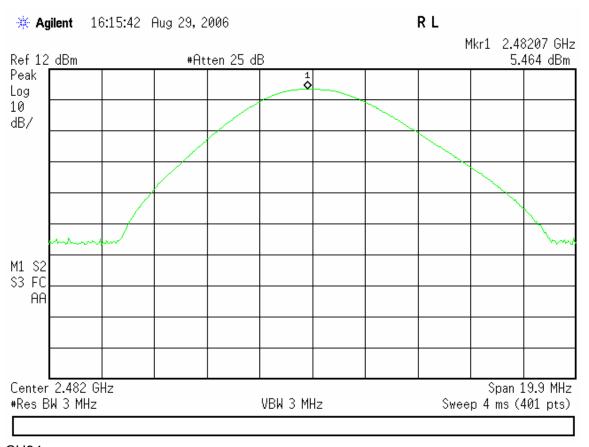
Ext Attenuation: 0dB

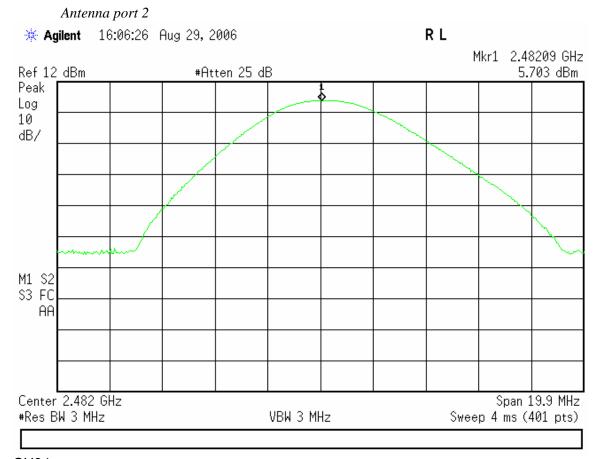
RBW: 3MHz VBW: 3MHz Detector: Peak

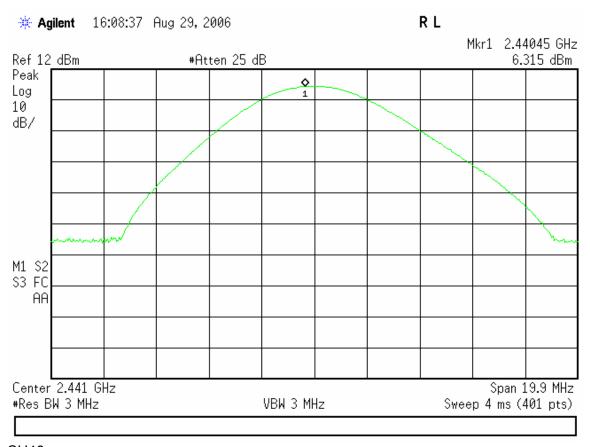
Channel Frequence (MHz)		Reading (dBm)	Cable loss	Ext Att	Dongle loss (dB)	Adjusted Reading (dBm)	Adjusted Reading (mW)
94	2482	5.464	2.4	0	0.7	8.564	7.18
46	2441	6.177	2.4	0	0.7	9.277	8.47
0	2401	6.898	2.3	0	0.7	9.898	9.77
Antenna Port 2							
94	2482	5.703	2.4	0	0.7	8.803	7.59
46	2441	6.315	2.4	0	0.7	9.415	8.74
0	2401	7.507	2.3	0	0.7	10.507	11.24

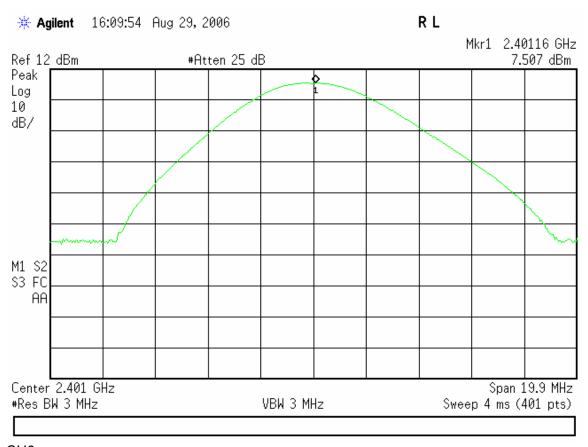








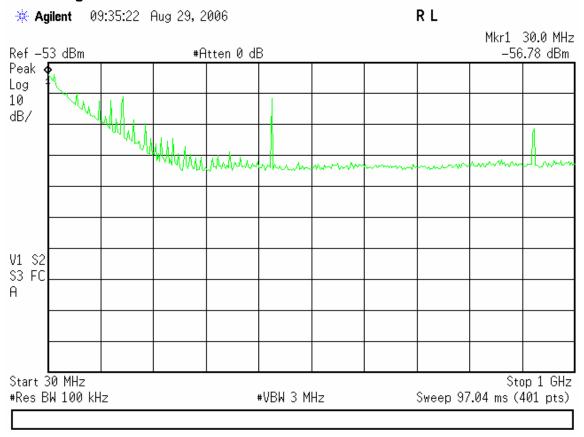


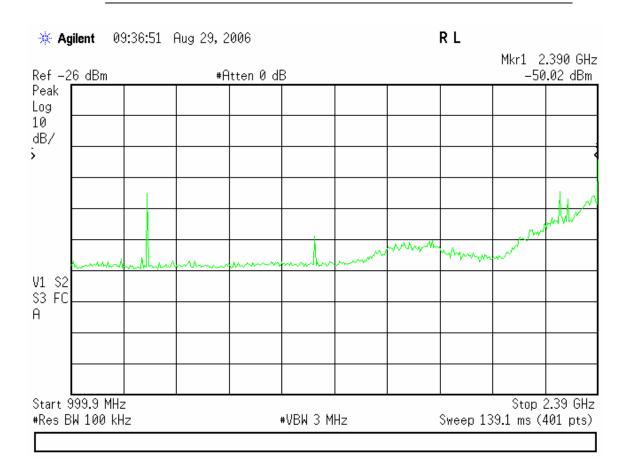


## Section 15.247 (d)

Conducted Spurious Emissions

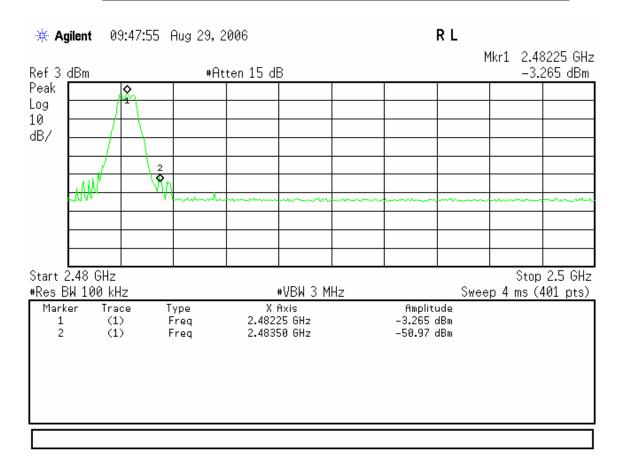
Ext Attenuation: 6dB Cable # High 5





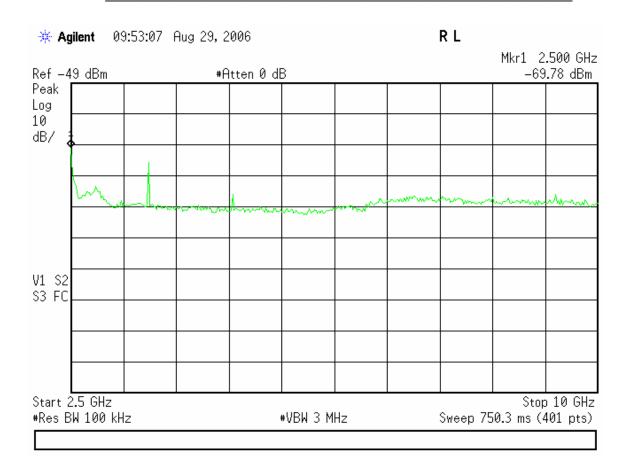
Conducted band edge (without hopping)

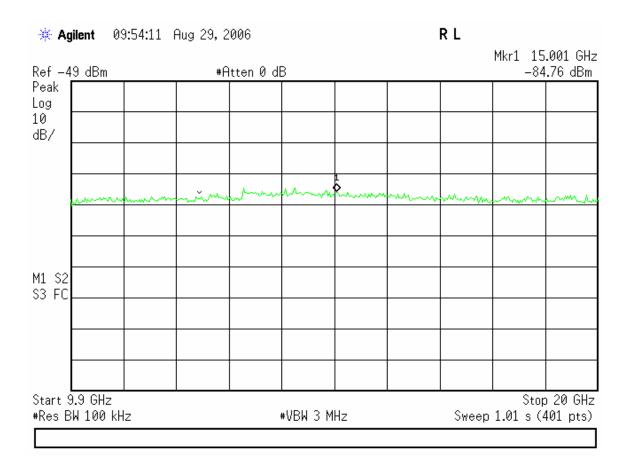
∰ Aç	gilent	09:46:0	00 Aug 29,	2006				R L		
Ref 3	dBm_		#Atten 15 dB						4007 GHz 505 dBm	
Peak Log 10				¥						
dB/										
				1	<b></b>	******				
Start 2 #Res B			·	:	₩VBW 3 M	lHz	:	Sweep 1	Stop 2 .3.35 ms (	.483 GHz 401 pts)
Mark 1 2	er	Trace (1) (1)	Type Freq Freq	2.390	Axis 30 GHz 37 GHz		Amplitu -60.01 d -0.505 d	∄Bm		

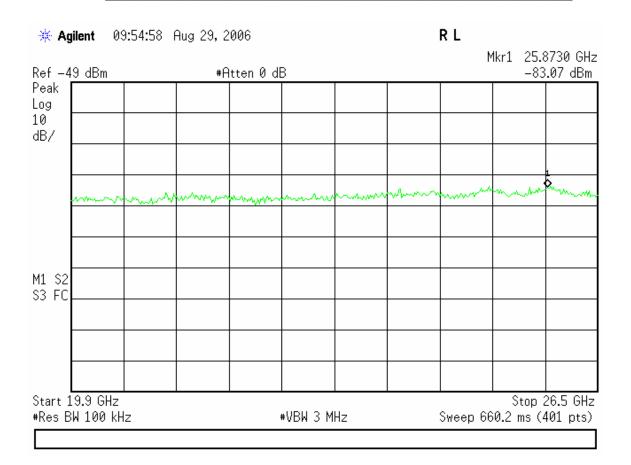


Conducted Band-edge (with hopping enabled)

₩ Ag	gilent	10:13:00	Aug 29, 2	006				R L			
Ref 2	dBm		#Atı	ten 15 di	В				Mkr4		4375 GHz 435 dBm
Peak Log 10 dB/					Mun	ANIAN MANIAN	Assert MAN	~~~~~	w	AMIN'AN CANA	
				2	ð						3
				<b>X</b>							
	[ 2.33 GH: 3W 100 F				#VBW 3 M	 1Hz		Sweep	17.0		2.5 GHz 401 pts)
Mark 1 2 3 4	(	ace 1) 1) 1) 1)	Type Freq Freq Freq Freq	X 2.4000 2.3900 2.4835 2.4043	00 GHz 00 GHz		Amplito -36.07 ( -60.35 ( -52.74 (	dBm dBm dBm			

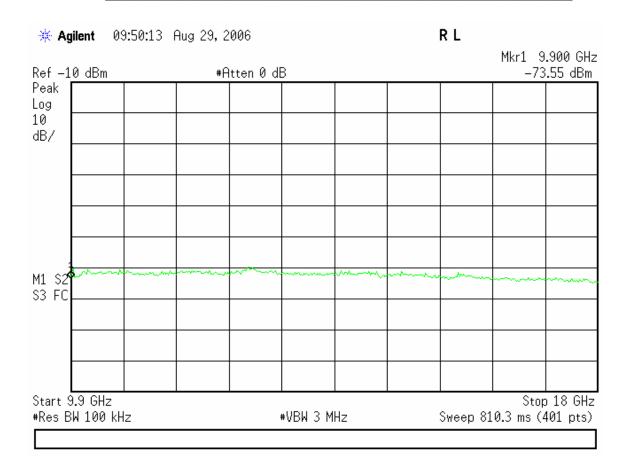






### Radio running at CH94





Spurious Radiated Emissions

#### Table 3

Date:	29-Aug-06			Company:	Aastra				W	ork Order:	G0955
Engineer:	Nate Sanford			EUT Desc:	57i CT E	Base Station	ı				
	Freque	ncy Range:	30-1000M	Hz				Measureme	nt Distance:	3 m	
Notes:	RBW: 120KH	z; VBW:300	KHz; Detec	tor: Q Peak				EU	T Max Freq:	2.482272GI	Hz
Antenna			Preamp	Antenna	Cable	Adjusted			F	CC Class I	3
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading			Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)			(dBµV/m)	(dB)	(Pass/Fail
V	75.0	42.2	26.2	8.9	0.9	25.8			40.0	-14.2	Pass
v	137.64	34.2	26.1	14.2	1.3	23.6			43.5	-19.9	Pass
V	250.0	39.7	26.1	12.4	2.0	28.0			46.0	-18.0	Pass
V	400.0	41.4	26.0	16.1	2.6	34.1			46.0	-11.9	Pass
h	999.97	41.3	25.0	24.0	4.6	44.9			54.0	-9.1	Pass
Table	Result:	Pass	by	-9.1	dB			W	orst Freq:	999.97	MHz
Test Site:	"="	Pre-Amp:	Orango	Cable	e: EMIR-03 Analyzer: White Antenna: Red-Black						

# Table 4

larmoni	30-Aug-06			Company:	Aastra			v	ork Order:	G0955	
	Mairaj Hussa	in		EUT Desc:		Base Unit		•		00000	
	Freque	ncy Range:	1 - 25GHz				Measurement Distance: 3 m				
Notes: RBW:1MHz; VBW:1MHz & 30Hz; Detector: Peak							EUT Max Freq: 2482.272MHz				
Antenna			Preamp	Antenna	Cable	Adjusted			FCC Class	В	
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading		Limit	Margin	Result	
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)		(dBµV/m)	(dB)	(Pass/Fail)	
Hpk	4802.0	59.3	39.3	35.2	3.2	58.4		74.0	-15.6	Pass	
Hav	4801.0	41.0	39.3	35.2	3.2	40.1		54.0	-13.9	Pass	
Hpk	12005.0	46.0	38.5	40.7	5.3	53.5		74.0	-20.5	Pass	
Hav	12205.0	35.0	37.4	41.0	5.4	44.0		54.0	-10.0	Pass	
CH94											
Hpk	4964.5	54.4	39.5	35.7	3.3	53.9		74.0	-20.1	Pass	
Hav	4964.5	39.0	39.5	35.7	3.3	38.5		54.0	-15.5	Pass	
Hpk	7446.1	51.1	39.4	38.8	4.2	54.7		74.0	-19.3	Pass	
Hav	7446.1	35.5	39.4	38.8	4.2	39.1		54.0	-14.9	Pass	
Hpk	12412.3	47.7	36.2	41.4	5.4	58.3		74.0	-15.7	Pass	
Hav	12412.3	32.0	36.2	41.4	5.4	42.6		54.0	-11.4	Pass	

Table 5

Radiated	l Emissi	ons Tab	ole						Curtis-St	raus LLC
Date:	29-Aug-06			Company:	Aastra			W	ork Order:	G0955
Engineer:	Nate Sanford			EUT Desc:	57i CT E	Base Station				
	Freque	ncy Range:	1-25GHz				Meas	urement Distance:	1 m	
Notes:	18-26.6GHz I RBW:1MHz;					EUT Max Freq: 2.482272GHz				
Antenna			Preamp	Antenna	Cable	Adjusted		F	CC Class	В
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading		Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)		(dBµV/m)	(dB)	(Pass/Fail)
Hpk	1100.0	71.5	40.2	24.3	1.7	57.3		63.5	-6.2	Pass
Havg	1100.0	50.8	40.2	24.3	1.7	36.6		63.5	-26.9	Pass
Hpk	1200.0	70.5	40.0	24.6	1.7	56.8		63.5	-6.7	Pass
Havg	1200.0	47.8	40.0	24.6	1.7	34.1		63.5	-29.4	Pass
Hpk	1387.0	78.9	40.5	25.1	1.8	65.3		83.5	-18.2	Pass
Havg	1387.0	42.2	40.5	25.1	1.8	28.6		63.5	-34.9	Pass
Hpk	1500.0	68.9	39.8	25.4	1.8	56.3		63.5	-7.2	Pass
Havg	1500.0	48.6	39.8	25.4	1.8	36.0		63.5	-27.5	Pass
Hpk	1600.0	64.1	40.1	25.9	2.0	51.9		63.5	-11.6	Pass
Havg	1600.0	41.4	40.1	25.9	2.0	29.2		63.5	-34.3	Pass
Hpk	3601.0	74.9	38.7	31.8	2.7	70.7		83.5	-12.8	Pass
Havg	3601.0	37.0	38.7	31.8	2.7	32.8		63.5	-30.7	Pass
Hpk	8400.0	65.1	38.8	37.9	4.5	68.7		83.5	-14.8	Pass
Havg	8400.0	35.3	38.8	37.9	4.5	38.9		63.5	-24.6	Pass
Hpk	10800.0	62.9	38.3	38.6	5.0	68.2		83.5	-15.3	Pass
Havg	10800.0	36.1	38.3	38.6	5.0	41.4		63.5	-22.1	Pass
Table	e Result:	Pass	by	-6.2	dB			Worst Freq:	1100.0	MHz
Test Site:	"F"	Pre-Amp:	Brown	Cable:	EMIR-H	IGH 5	Analyzer: White	Antenna:	Black Horn	

Note: If peak reading met the average limit then average readings were not taken

#### Sample calculation:

Adjusted Re ading = Re ading + Antenna factor + Cable loss - Pre amp factor

Radiated Band Edge

#### Table 6

Band Ed	ge									Curtis-St	aus LLC
Date:	30-Aug-06			Company:	Aastra				٧	Vork Order:	G0955
Engineer:	Mairaj Hussa	in	I	EUT Desc:	57i CT E	Base Unit					
							N	/leasureme	nt Distance:	3 m	
Notes:								EU.	T Max Freq:	2482.272MI	Нz
Antenna			Preamp	Antenna	Cable	Adjusted				FCC Class I	3
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading			Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)			(dBµV/m)	(dB)	(Pass/Fail)
Hpk	2401.0	127.1	39.2	29.7	2.3	119.9					
Havg	2401.0	107.1	39.2	29.7	2.3	99.9					
100KHz RBW											
Hpk	2401.0	125.2	39.2	29.7	2.3	118.0					
Hbe	2390.0	56.3	39.4	29.7	2.3	48.9					
Delta:		68.9									
PK @ BE	2390.0	58.2	39.4	29.7	2.3	50.8			74.0	-23.2	Pass
Avg @ BE	2390.0	38.2	39.4	29.7	2.3	30.8			54.0	-23.2	Pass
Hpk	2482.2	124.2	39.0	30.0	2.4	117.6					
Havq	2482.2	104.2	39.0	30.0	2.4	97.6					
100KHz RBW											
Hpk	2482.2	122.0	39.0	30.0	2.4	115.4					
Hbe	2483.5	76.3	39.0	30.0	2.4	69.7					
Delta:		45.7									
PK @ BE	2483.5	78.5	39.0	30.0	2.4	71.9			74.0	-2.1	Pass
Avg @ BE	2483.5	58.5	39.0	30.0	2.4	51.9			54.0	-2.1	Pass
Test Site:	"F"	Pre-Amp:	Brown	Cable:	EMIR-H	IGH 5	Analyzer: Brown		Antenna:	Orange Hor	n

#### **Section 15.207**

AC conducted emissions testing was performed with several sample power supplies which are intended to be sold with the product.

Table 7

AC Main		uctea E			A = -t==			C	urtis-Stra	
	21-Aug-06			company:					Work Order:	
	Nate Sanfor Skynet Power			UT Desc:	5/101				Test Site:	EIVII 1
Notes: Measurement	- ,	Gold LISN								
	0.15-30MHz						Spectr	um Analyzer:	Blue	
Ţ					Impedance	FCC/	CISPR B	FCC/	CISPR B	
	Q.P. Re	adings	Ave. Re	eadings	Factor					Overal
Frequency	QP1	QP2	AV1	AV2		qp Limit	qp Margin	AVE Limit	AVE Margin	Result
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dBµV)	(dB)	(dBµV)	dB	(dBµV)	dB	(Pass/Fa
0.27	22.5	14.1	16.6	8.4	20.6	61.3	-18.2	51.3	-14.1	Pass
1.24	13.1	8.2	8.6	4.3	20.2	56.0	-22.7	46.0	-17.2	Pass
3.33	22.4	17.5	16.1	8.9	20.2	56.0	-13.4	46.0	-9.7	Pass
3.42	23.4	16.9	11.1	5.9	20.2	56.0	-12.4	46.0	-14.7	Pass
3.75	14.4	9.8	10.8	4.7	20.2	56.0	-21.4	46.0	-15.0	Pass
10.45	9.6	7.4	6.1	2.9	20.2	60.0	-30.2	50.0	-23.7	Pass
Table	Result:	Pass	by	-9.70	dB		Wo	orst Frea:	3.33	MHz

#### Table 8

<b>AC Main</b>	s Cond	lucted	Emiss	ions				C	urtis-Stra	us LLC
Date:	21-Aug-06		C	ompany:	Aastra				Work Order:	G0955
Engineer:	Nate Sanfor	Ь	E	UT Desc:	57iCT				Test Site:	EMI1
	Globtek Pov									
Measuremen	t Device:	Gold LISN								
Range:	0.15-30MHz						Spectru	ım Analyzer:	Blue	
					Impedance	FCC/	CISPR B	FCC/0	CISPR B	
	Q.P. Re	adings	Ave. Re	adings	Factor					Overall
Frequency	QP1	QP2	AV1	AV2		qp Limit	qp Margin	AVE Limit	AVE Margin	Result
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dBµV)	(dB)	(dBµV)	dB	(dBµV)	dB	(Pass/Fail)
0.28	20.4	20.8	14.0	14.6	20.5	60.7	-19.4	50.7	-15.6	Pass
0.52	15.5	17.0	7.7	9.2	20.4	56.0	-18.6	46.0	-16.4	Pass
0.81	13.5	14.8	7.4	9.4	20.3	56.0	-20.9	46.0	-16.3	Pass
0.92	14.8	16.6	8.4	9.3	20.2	56.0	-19.2	46.0	-16.5	Pass
2.05	14.7	17.8	7.1	9.2	20.1	56.0	-18.1	46.0	-16.7	Pass
2.50	11.5	14.7	5.6	8.1	20.1	56.0	-21.2	46.0	-17.8	Pass
Table	Result:	Pass	by	-15.60	dB		Wo	rst Freq:	0.28	MHz

#### Table 9

<b>AC Main</b>	s Cond	ucted E	missio	ons				C	urtis-Stra	us LLC		
Date:	21-Aug-06			company:	Aastra	Work Order:						
Engineer:	Nate Sanford	b	E	UT Desc:	57iCT	Test Sit						
Notes:	Power Over	Ethernet										
Measurement		Green LISN										
Range:	0.15-30MHz						Spectr	um Analyzer:	Blue			
					Impedance	FCC/	CISPR B	FCC/	CISPR B			
	Q.P. Re	adings	Ave. Re	eadings	Factor					Overall		
Frequency	QP1	QP2	AV1	AV2		qp Limit	qp Margin	AVE Limit	AVE Margin	Result		
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dBµV)	(dB)	(dBµV)	dB	(dBµV)	dB	(Pass/Fail		
5.45	12.5	11.6	8.7	7.5	20.3	60.0	-27.2	50.0	-21.0	Pass		
26.50	16.3	15.8	15.4	14.7	20.4	60.0	-23.3	50.0	-14.2	Pass		
27.17	17.6	17.2	16.8	16.4	20.4	60.0	-22.0	50.0	-12.8	Pass		
27.35	14.8	15.4	14.8	14.3	20.4	60.0	-24.2	50.0	-14.8	Pass		
28.69	21.0	20.7	20.3	20.0	20.4	60.0	-18.6	50.0	-9.3	Pass		
29.24	22.1	21.7	21.6	21.3	20.4	60.0	-17.5	50.0	-8.0	Pass		
Table	Result:	Pass	by	-8.00	dB		Wo	rst Freq:	29.24	MHz		

# **Test Equipment Used**

MIXER / HORN

MIXER / HORN

MIXER / HORN

DIPLEXER

60-90 GHz

90-140 GHz

140-220 GHz

40-220 GHz

							REV. 28-AU	G-2006	
SPECTRUM ANAL RECEIVER		RANGE	MN	l Mfr	SN	As	SET CA	т	CALIBRATION DUE
RED	<u>-                                      </u>	9kHz-1.8GHz	8591	E HP	3441A03	3559 00	024 I		30-DEC-2006
WHITE		9kHz-22GHz	8593		3547U01		022 I		14-MAR-2007
BLUE		9kHz-1.8GHz	8591	E HP	3223A00	)227 00	070 I		14-DEC-2006
YELLOW		9kHz-2.9GHz	8594	E HP	3523A01	1958 00	100 I		05-JUN-2007
GREEN		9kHz-26.5GHz	8593	E HP	3829A03	3829A03618 001			OUT OF SERVICE
BLACK		9kHz-12.8GHz	8596	E HP	3710A00		337 I		02-NOV-2006
TELECOM 35	85A	20Hz-40.0MHz	3585	A HP	2504A05	5219 00	030 I		07-FEB-2007
TELECOM 35	85A	20Hz-40.0MHz	3585	A HP	1750A03	3418 00	558 1		23-MAY-2007
TELECOM 35	85A	20Hz-40.0MHz	3585	A HP	1750A02	2762 01	067 I		01-MAR-2007
ORANGE		9kHz-26.5GHz	E440	7B HP	US39440	0975 00	394 I		OUT OF SERVICE
Brown (Ren	ITAL)	9kHz-26.5GHz	E440	7B HP	SG44210	0511 Re	ntal 1		05-JAN-2007
EMI TEST REC		20-1000MHz	ESVS		827957/	001 01	098 I		27-OCT-2006
LISNS/MEASUREI PROBES	MENT	RANGE	N	MN	MFR	SN	ASSET	Сат	
RED	1	10kHz-30MHz	8012-50-	-R-24-BNC	Solar	956348	00753	II	05-MAY-2007
BLUE (DC)	1	10kHz-30MHz	8012-50-	-R-24-BNC	SOLAR	956349	00752	II	05-MAY-2007
YELLOW-BLAC	K 1	I0кHz-30MHz	8012-50-	-R-24-BNC	SOLAR	984735	00248	II	05-MAY-2007
ORANGE	1	10kHz-30MHz	8012-50-	-R-24-BNC	Solar	903707	00754	II	05-MAY-2007
GOLD (DC)	1	Ι0κHz-30MHz	8012-50-	-R-24-BNC	SOLAR	984734	00247	II	05-MAY-2007
Brown	1	10kHz-30MHz	8012-50-	-R-24-BNC	SOLAR	0411656	00986	II	05-MAY-2007
GREEN	1	10kHz-30MHz	8012-50-	-R-24-BNC	SOLAR	0411657	00987	II	08-MAY-2007
YELLOW	1	10kHz-30MHz	8012-50-	-R-24-BNC	SOLAR	0411658	1080	Ш	05-MAY-2007
WHITE-BLACK	<b>(</b> 1	10kHz-30MHz	8610-50	-TS-100-N	SOLAR	972019	00678	Ш	05-MAY-2007
BLACK	1	10kHz-30MHz	8610-50	-TS-100-N	SOLAR	972017	00675	II	05-MAY-2007
RED-BLACK	1	10kHz-30MHz	8610-50	-TS-100-N	SOLAR	972016	00677	II	05-MAY-2007
BLUE-BLACK	1	10kHz-30MHz	8610-50	-TS-100-N	SOLAR	972018	00676	II	05-MAY-2007
BLUE MONITORING	PROBE	0.01-150MHz	915	550-2	TEGAM	12350	00807	- 1	26-MAY-2007
YELLOW MONITORING		0.01-150MHz		550-2	ETS	50972	00493		23-JAN-2008
GREEN CURRENT TRANS	SFORMER	40Hz-20MHz	1	150	PEARSON	10226	00793		07-APR-2007
BLUE CISPR LINE F		50kHz-30MHz	1	N/A	C-S	N/A	00805		08-JUN-2007
BLACK CISPR LINE I		50kHz-30MHz		N/A	C-S	N/A	NONE	II	08-JUN-2007
CISPR TELCO VOLTAG		10kHz-30MHz		√C-10	C-S	CS01	00296		30-SEP-2006
CISPR 22 TELCO	ISN	9kHz-30MHz	FCC-T	LISN-T4	FISCHER	20115	00746	ı	26-OCT-2006
ODEN ADEA TE	OT SITES (OA	TCI	FCC Co	DDE .	IC CODE	VCCIC	ODE CAT	-	CALIDDATION DUE
OPEN AREA TE		113)			IC 2762A-1			!	CALIBRATION DUE
	TE <b>F</b> TE <b>T</b>		9344 9344		IC 2762A-1	R-168 R-90			04-APR-2007 14-AUG-2007
	TE A				IC 276A-2 IC 2762-A				13-AUG-2007
	TE M		9344 9344		IC 2762-A	R-90 R-90			
	TE J		9344		IC 2762-W	R-90	4 II II		19-MAR-2007 11-APR-2008
-				-					
CONDUCTED TEST S	SITES (MAINS	/TELCO)	FCC Co	DDE	IC CODE	VCCI	CODE	Сат	CALIBRATION DUE
	MI 1		9344		N/A	C-1801,		III	NA
	MI 2		9344		N/A	C-1802,		III	NA
Ei	MI 3		9344	8	N/A	C-1803,	1-270	III	NA
MIXERS/DIPLEXERS	RANGE	MN		MFR	(	SN	ASSET	Сат	CALIBRATION DUE
MIXER / HORN	26.5-40 GHz		-442-6	HP/ATM		5/A046903-01	1087	I	23-AUG-2007
MIXER / HORN	26.5-40 GHz			HP/ATM		5/A046903-01	1087	i	23-AUG-2007 23-AUG-2006
MIXER / HORN	40-60 GHz	M19HW		OML		)110-1	00821	i	02-MAR-2007
MIXER	33-50 GHz	11970		HP		A03155	00104	i	08-NOV-2007
MIXER / HORN	50-75 GHz	11970V /QWH-		HP/QuinStar		97/8794001	1179	i	15-NOV-2007
MIXER	75-110 GHz	11970		HP		A01334	00105	i	22-NOV-2007
MIYER / HOPN	60-90 GHz	M12H\/		OMI		110-1	00822	i	03-MAR-2007

OML

OML

OML

OML

E30110-1

F21206-1

G21206-1

N/A

ACCREDITED

1

Ш

00822

00811

00812

00813

M12HW/A

MO8HW/A

MO5HW/A

DPL.26

03-MAR-2007

03-MAR-2007

03-MAR-2007

ABSORBING CLAMPS	RANGE	MN		MFR	SN	Assı	≣T C	AT	CALIBRATION DUE
FISCHER CLAMP	30-1000MHz	F-201-23	Вмм Г	FISCHER	10	3000	31	I	20-JAN-2008
HARMONIC & FLICKER AI	VAL YZER	MN	MFR	Ş	SN SN	A:	SSET	САТ	CALIBRATION DUE
HFTS		26842A	HP		-00169		0738	II	30-DEC-2007
10001I/2 AC POWER SY			ORNIA INSTRUMENT				376	ii	09-JAN-2008
PREAMPS / ATTENUATORS	2/								
FILTERS	RANGE		MN	MFR	;	SN	ASSET	Сат	CALIBRATION DUE
RED	0.10-2000		L-1000-LN	C-S		V/A	00798	Ш	28-JUL-2007
BLUE	0.01-2000		L-1000-LN	C-S		N/A	00759	II	20-JUL-2007
BLUE-BLACK	0.01-2000		L-1000-LN	C-S		N/A	00800	II.	04-JAN-2007
GREEN	0.01-2000		L-1000-LN	C-S		N/A	00802	II.	07-AUG-2007
BLACK	0.01-2000		L-1000-LN	C-S		N/A	00799	II.	20-JUL-2007
ORANGE	0.01-2000		L-1000-LN	C-S		N/A	00765	II.	28-DEC-2006
WHITE	1-20GH		SMC-12A	C-S		6643	00760	II.	22-JUL-2007
BROWN VELLOW BLACK	1-20GH		18-4R5-17-15-SFF SMC-12A	C-S C-S		1655	1132 00801	II II	14-APR-2007
YELLOW-BLACK RED-GREEN	1-20GH 1-20GH		18-4R5-17-15-SFF		53	5055	00001	II II	22-JUL-2007
HF (YELLOW)	18-26.5G		16-4R5-17-15-5FF 8002650-60-8P-4	C-S	46	7559	00758	II II	14-AUG-2007 23-AUG-2007
HIGH PASS FILTER	1-18 GH		A-F-55204	K&L		7559 36	00736	II	05-JAN-2008
LOW PASS FILTER	1-16 GH		4100/X4400-O/O	K&L		4	00817	II	05-JAN-2008
HF 20DB 50W ATTENUATOR			E 7019-20	Pasternack	,	01	00791	ii	10-MAY-2007
HF 30DB 50W ATTENUATOR						02	1168	II	
			E 7019-30	PASTERNACK MICROWAVE					10-MAY-2007
Low Freq LPF	10-100kl		200K1G1	CIRCUITS MICROWAVE		1 DC0432	1019	II 	OUT OF SERVICE
Low Freq LPF	10-100kl	Hz Li	200K1G1	CIRCUITS	4777-0	1 DC0434	1088	II	OUT OF SERVICE
ANTENNAS	RANGE	MN	MFR	SN	ASSET	Сат		CALIDD	ATION DUE
GREEN BILOG	30-2000MHz	CBL6112B		2742	00620	II			
GREEN-BLACK BILOG	30-2000MHz	CBL6112B	CHASE CHASE	2742 2412	00020	II			AN-2008 AN-2008
GREEN-RED BILOG	30-2000MHz	CBL6112B	CHASE	2435	00127	ï			PR-2008
BLUE BILOG	30-1000MHz	3143	EMCO	1271	00803	i			AY-2007
GRAY BILOG	20-2000MHz	3141	EMCO	9703-1038	00066	ii	06-MAY-2		)/30-JUN-2007(RFI2)
YELLOW-BLACK BILOG	20-2000MHz	CBL6140A	CHASE	1112	00126	ii		•	I) / 01-MAY-2007(RFI)
RED-WHITE BILOG	30-2000MHz	JB1	SUNOL	A091604-1	01105	ii	00 1017 (1 2		PR-2008
RED-BLACK BILOG	30-2000MHz	JB1	SUNOL	A091604-1	01106	ii			PR-2008
RED-BROWN BILOG	30-2000MHz	JB1	SUNOL	A0032406	1218	ï			JG-2008
YELLOW HORN	1-18GHz	3115	EMCO	9608-4898	00037	i	27-MAY-2		)/ 18-MAY-2007 (RFI)
BLACK HORN	1-18GHz	3115	EMCO	9703-5148	00056	i	27 100 (1 2		JN-2007
ORANGE HORN	1-18GHz	3115	EMCO	0004-6123	00390	i			JN-2007 JN-2007
HF (WHITE) HORN	18-26.5GHz	801-WLM	WAVELINE	00758	00758	i			JG-2007 JG-2007
SMALL LOOP	10KHz-30MHz	PLA-130/A	ARA	1024	00755	i			EB-2008
LARGE LOOP	20Hz-5MHz	6511	EMCO	9704-1154	00067	i			AN-2008
ACTIVE MONOPOLE	30Hz-30MHz	3301B	EMCO	3824	00068	ii			PR-2007
INDUCTION COIL	50-60Hz	1000-4-8	C-S	N/A	00778	ii			EP-2007
ADJUSTABLE DIPOLE	30-1000MHz	3121C	EMCO	1370	00757	ii			AR-2007
ADJUSTABLE DIPOLE	30-1000MHz	3121C	EMCO	1371	00756	ii			AR-2007
RE101 LOOP SENSOR	30Hz-100kHz	RE101-13.3cm	C-S	N/A	00730	ii			AR-2007 AR-2007
RS101 RADIATING LOOP	30Hz-100KHz	RS101-13.36M	C-S	N/A	00819	ii			AR-2007 AR-2007
RS101 LOOP SENSOR	30Hz-100KHz	RS101-12CM	C-S	N/A	00820	ii			AR-2007 AR-2007
NO TO T LOOP SENSOR	30112-100K112	K3101-40M	U-3	IN/A	00020			13-101	AN-2007
EFT		MN	MFR		SN		ASSET	Сат	CALIBRATION DUE
EFT DIRECT COUPLING (	CAP	N/A	C-S		01		00794	II	06-FEB-2008
ESD GENERATORS		MN	MFR	SN		ASSET	Сат	(	CALIBRATION DUE
GREEN	N:	SG435	SCHAFFNER	R 0008	39	00763			02-MAR-2007
RED		SG435	SCHAFFNER			00762	ı		06-JAN-2007
YELLOW		930D	ETS	201		00673	İ		18-AUG-2007
	N MF	r SI		- 0			CALIBRATION	ON DUE	
<b>BEST EMC-2</b> MI									
BLUE 711-1 RED 711-1	1100 SCHAF	FNER 199824-	002SC 00117	' II 05		7 (SURGE)	/ 04-AUG-2	007 (D+I	)/31-JUL-2007 (EFT) PR-2007 (EFT)

SN

ASSET

MFR

MN

CHAMBERS AND STRIPLINE

CALIBRATION DUE

Сат

RFI 1 CHAN						SIN	ASSET			CALIBRATION DUE
	MBER	3 METER COM	MPACT	PANASHIELD		N/A	00797	II		01-MAY-2007
RFI 2 CHAN	MBER	04' x 07' SHIELDIN	G SYSTEM	LINDGREN		13329	00795	II		30-JUN-2007
RFI 3 STRIF	PLINE	N/A		C-S		N/A	00796	III		NA
ENVIRONMENTA	L (SAFETY)	ECL5		B-M-A Inc.		2041	00029	- 1		11-JAN-2007
ENVIRONMENTA		SGTH-31	IS	B-M-A INC.		2245	00321	- 1		11-JAN-2007
	(									
AMPLIFIERS	RANGE	MN	MFR	SN	ASSET	Сат			CALIBRAT	TION DUE
RED	0.5-1000MHz	10W1000B	AR	18708	00032	II			26-APR-20	007 (RFI1)
GREEN	0.5-1000MHz	10W1000B	AR	23423	00123	ii			13-APR-20	,
BLUE	0.01-250MHz	75A250	AR	19165	00039	ii	05-APE			2-DEC-2006 (NEBS CRFI)
BLACK	0.01-250MHz	75A250	AR	23411	00122	ii			,	2-DEC-2006 (NEBS CRFI)
										2-DEC-2006 (NEBS CRFI)/
ORANGE	0.01-250MHz	75A250	AR	26827	00367	II	UJ-AFIX		01-MAY-20	
BROWN 150W	0.1-250MHz	150A250	AR	313454	RENTAL	II			30-JUN-20	007 (RFI2)
GTC 1-2.6	1.0-2.6 GHz	GRF5016A	GTC	1221	RENTAL	II			18-MA\	<i>Y</i> -2007
HUGHES 10W	2.0-4.0GHz	1177H01	Hughes	055	RENTAL	II			18-MA\	<i>Y</i> -2007
HUGHES 10W	4.0-8.0GHz	8010H02F	Hughes	240	RENTAL	П			18-MA\	7-2007
HUGHES 10W	8-10.0GHz	80108	Hughes	138	RENTAL	ii II			18-MAY	
HP495A	7.0-10.0GHz	HP495A	HP	304-00237	00086	ii		Ou		(ICE (SPARE)
AUDIO AMP	AUDIO FREQ	MPA-200	RADIO SHACK	700438	NONE	iii		00	N	` ,
	AUDIO FREQ	MPA-200	RADIO SHACK	700438	00862	iii			N/	
AUDIO AMP	AUDIO FREQ	IVIFA-200	RADIO SHACK	700040	00002	111			INA	Η
FIELD										
PROBES	RANGE	M	N	MFR		SN	As	SET	CAT	CALIBRATION DUE
RED	0.01-1000M	Hz HI-4	422	HOLADAY		90369	00	031	ı	01-MAR-2007
GREEN	0.01-1000M			HOLADAY		97363		136	i	25-JUL-2007
BLUE	0.01-1000M			HOLADAY		95696		100	i	25-MAR-2007
BLOL	0.01 100011	111 7		HOLADAT		00000	- 01	100	<u> </u>	20 1017 (1 < 2007
SIGNAL GENER	RATORS	RANGE	MN	MFR		SN		ASSET	Сат	CALIBRATION DUE
RED		0.09-2000MHz	HP8648B	HP		3847U02	2192	00366	1	28-FEB-2007
BLUE		0.1-1000MHz	HP8648A	HP		3426A00		00034	i	23-AUG-2007
				HP					- :	
GREEN		0.09-2000MHz	HP8648B			3623A02		00125	!	17-OCT-2006
ORANGE		0.1-1000MHz	HP8648B	HP		3537A01		00025	!	29-JUN-2007
BROWN		0.01Hz-15MHz	HP33120A	HP		US36016		1211	!	23-NOV-2006
WHITE (NE	,	0.01Hz-15MHz	HP33120A	HP		US36048		1219	1	10-MAY-2007
Blue-Whi	TE	0.1Hz-13MHz	HP3312A	HP		1432A07		00775	I	11-MAR-2007
				HP		3610A01	1133	00087	II	02-MAY-2007
SWEEPER		0.01-20.0GHz	HP83752A							
	R	0.01-20.0GHz 0.1-170MHz	LG3236	LEADER		36873	01	00959	1	30-AUG-2006
SWEEPER	R Big. Gen.								 	
SWEEPER AM/FM STEREO S IMPULSE GENER	R Big. Gen. RATOR	0.1-170MHz 1-100Hz	LG3236 CIG-25	LEADER ELECTRO-ME	TRICS	36873 290		00959	 	30-AUG-2006 05-AUG-2007
SWEEPER AM/FM STEREO S IMPULSE GENER BULK INJECTION	R Sig. Gen. RATOR ON CLAMPS	0.1-170MHz 1-100Hz	LG3236 CIG-25	LEADER ELECTRO-ME	TRICS	36873 290 Asset	г Сат	00959 00942		30-AUG-2006 05-AUG-2007 IBRATION DUE
SWEEPER AM/FM STEREO S IMPULSE GENER BULK INJECTIO	R Sig. Gen. RATOR  ON CLAMPS EN	0.1-170MHz 1-100Hz RANGE 0.01-100MHz	LG3236 CIG-25 MN 95236-1	LEADER ELECTRO-ME MFR ETS	SN 50215	36873 290 Asset 00118	г Сат В II	00959 00942 05-A	PR-2007 (E	30-AUG-2006 05-AUG-2007 IBRATION DUE EU)/16-DEC-2006 (NEBS)
SWEEPER AM/FM STEREO S IMPULSE GENER  BULK INJECTIC  GREE RED	R Sig. Gen. RATOR  DN CLAMPS EN	0.1-170MHz 1-100Hz RANGE 0.01-100MHz 0.01-100MHz	LG3236 CIG-25 MN 95236-1 95236-1	LEADER ELECTRO-ME MFR ETS ETS	SN 50215 34026	36873 290 Asset 00118 1020	г Сат В II	00959 00942 05-A	PR-2007 (E PR-2007 (E	30-AUG-2006 05-AUG-2007 IBRATION DUE EU)/16-DEC-2006 (NEBS) EU)/16-DEC-2006 (NEBS)
SWEEPER AM/FM STEREO S IMPULSE GENER BULK INJECTIO	R Sig. Gen. RATOR  DN CLAMPS EN	0.1-170MHz 1-100Hz RANGE 0.01-100MHz	LG3236 CIG-25 MN 95236-1	LEADER ELECTRO-ME MFR ETS	SN 50215	36873 290 Asset 00118	г Сат В II	00959 00942 05-A	PR-2007 (E PR-2007 (E	30-AUG-2006 05-AUG-2007 IBRATION DUE EU)/16-DEC-2006 (NEBS)
SWEEPER AM/FM STEREO S IMPULSE GENER  BULK INJECTIO  GREE RED RENT/	R SIG. GEN. RATOR  ON CLAMPS  EN O AL	0.1-170MHz 1-100Hz RANGE 0.01-100MHz 0.01-100MHz 2 – 450MHz	LG3236 CIG-25 MN 95236-1 95236-1	LEADER ELECTRO-ME MFR ETS ETS SOLAR	SN 50215 34026 008508	36873 290 ASSET 00118 1020 RENTAL	r Cat B II II	00959 00942 05-A	PR-2007 (E PR-2007 (E	30-AUG-2006 05-AUG-2007 IBRATION DUE EU) /16-DEC-2006 (NEBS) EU) /16-DEC-2006 (NEBS) 0-AUG-2007
SWEEPER AM/FM STEREO S IMPULSE GENER  BULK INJECTIO  GREE RED RENT/	R SIG. GEN. RATOR  ON CLAMPS EN O AL	0.1-170MHz 1-100Hz RANGE 0.01-100MHz 0.01-100MHz 2 - 450MHz	MN 95236-1 95236-1 9142-1N	LEADER ELECTRO-ME MFR ETS ETS SOLAR	SN 50215 34026 008508	36873 290 ASSET 00118 1020 RENTAI	CAT II II ASSET	00959 00942 05-A	PR-2007 (E PR-2007 (E 10 CAT	30-AUG-2006 05-AUG-2007 IBRATION DUE EU) /16-DEC-2006 (NEBS) EU) /16-DEC-2006 (NEBS) 0-AUG-2007 CALIBRATION DUE
SWEEPER AM/FM STEREO S IMPULSE GENER  BULK INJECTIC  GREE RED RENT/	R SIG. GEN. RATOR  ON CLAMPS EN O AL	0.1-170MHz 1-100Hz RANGE 0.01-100MHz 0.01-100MHz 2 - 450MHz RANGE 0.10-100MHz	MN 95236-1 95236-1 9142-1N	MFR ETS ETS SOLAR  MN M-2 (DC)	SN 50215 34026 008508 M C	36873 290 ASSET 00118 1020 RENTAL	CAT B II II L II ASSET 00783	00959 00942 05-A	PR-2007 (E PR-2007 (E 10 CAT	30-AUG-2006 05-AUG-2007 IBRATION DUE EU) /16-DEC-2006 (NEBS) EU) /16-DEC-2006 (NEBS) D-AUG-2007 CALIBRATION DUE OUT OF SERVICE
SWEEPER AM/FM STEREO S IMPULSE GENER  BULK INJECTIC  GREE RED RENT/  CDN NETW  BLACK BLUE	R SIG. GEN. RATOR  ON CLAMPS EN O AL  VORKS	0.1-170MHz 1-100Hz RANGE 0.01-100MHz 0.01-100MHz 2 - 450MHz RANGE 0.10-100MHz 0.10-100MHz	MN 95236-1 95236-1 9142-1N	MFR ETS ETS SOLAR  MN M-2 (DC) 5A M-3	SN 50215 34026 008508 M C C	36873 290 ASSET 00118 1020 RENTAI	CAT B II II L II  ASSET 00783 00806	00959 00942 05-A	PR-2007 (E PR-2007 (E 10 CAT II II	30-AUG-2006 05-AUG-2007 IBRATION DUE EU) /16-DEC-2006 (NEBS) EU) /16-DEC-2006 (NEBS) D-AUG-2007 CALIBRATION DUE OUT OF SERVICE 10-JAN-2007
SWEEPER AM/FM STEREO S IMPULSE GENER  BULK INJECTIC  GREE RED RENT/  CDN NETW  BLACK BLUE ORANGI	R SIG. GEN. RATOR  ON CLAMPS EN O AL  VORKS	0.1-170MHz 1-100Hz RANGE 0.01-100MHz 0.01-100MHz 2 - 450MHz RANGE 0.10-100MHz 0.10-100MHz 0.10-100MHz	MN 95236-1 95236-1 9142-1N 20A 1	MFR ETS ETS SOLAR  MN M-2 (DC) 5A M-3 5A M-2	SN 50215 34026 008508 M C C	36873 290 ASSET 00118 1020 RENTAL FR -S -S	CAT B II II L II  ASSET 00783 00806 00786	00959 00942 05-A	PR-2007 (E PR-2007 (E 10 CAT II II	30-AUG-2006 05-AUG-2007 IBRATION DUE EU) /16-DEC-2006 (NEBS) EU) /16-DEC-2006 (NEBS) D-AUG-2007 CALIBRATION DUE OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE
SWEEPER AM/FM STEREO S IMPULSE GENER  GREE RED RENT/  CDN NETW  BLACK BLUE ORANGI RED	R SIG. GEN. RATOR  ON CLAMPS EN ) AL  OORKS	0.1-170MHz 1-100Hz RANGE 0.01-100MHz 0.01-100MHz 2 - 450MHz RANGE 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz	MN 95236-1 95236-1 9142-1N 20A 1 1	MFR ETS ETS SOLAR  MN M-2 (DC) 5A M-3 5A M-2 5A M-3	SN 50215 34026 008508 M C C C C C C	36873 290 ASSET 00118 1020 RENTAL FR -S -S -S	ASSET 00783 00806 00786 00780	00959 00942 05-A	PR-2007 (E PR-2007 (E 10 CAT II II II	30-AUG-2006 05-AUG-2007 IBRATION DUE EU)/16-DEC-2006 (NEBS) EU)/16-DEC-2006 (NEBS) 0-AUG-2007 CALIBRATION DUE OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007
SWEEPER AM/FM STEREO S IMPULSE GENER  GREE RED RENT/  CDN NETW  BLACK BLUE ORANGI RED WHITE	R SIG. GEN. RATOR  ON CLAMPS  EN ) AL  VORKS  E	0.1-170MHz 1-100Hz RANGE 0.01-100MHz 0.01-100MHz 2 - 450MHz RANGE 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz	MN 95236-1 95236-1 9142-1N 20A 1 1 1	MFR ETS ETS SOLAR  MN M-2 (DC) 5A M-3 5A M-2 5A M-3 5A M-3 5A M-3	SN 50215 34026 008508	36873 290 ASSET 00118 1020 RENTAI FR -S -S -S -S	T CAT 3 II II L II  ASSET 00783 00806 00786 00780 00782	00959 00942 05-A	PR-2007 (E PR-2007 (E 10 CAT II II II II	30-AUG-2006 05-AUG-2007 IBRATION DUE EU)/16-DEC-2006 (NEBS) EU)/16-DEC-2006 (NEBS) D-AUG-2007 CALIBRATION DUE OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE
SWEEPER AM/FM STEREO S IMPULSE GENER  GREE RED RENT/  CDN NETW  BLACK BLUE ORANGI RED WHITE YELLOW-BL	R SIG. GEN. RATOR  ON CLAMPS  EN ON AL ORKS  E E E LACK	0.1-170MHz 1-100Hz RANGE 0.01-100MHz 0.01-100MHz 2 - 450MHz RANGE 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz	MN 95236-1 95236-1 9142-1N 20A 1 1 1	MFR ETS ETS SOLAR  MN M-2 (DC) 5A M-2 5A M-3 5A M-3 5A M-3 5A M-3 5A M-3	SN 50215 34026 008508 M C C C C C C	36873 290 ASSET 00118 1020 RENTAL FR -S -S -S -S -S	ASSET 00783 00806 00786 00782 00784	00959 00942 05-A	PR-2007 (E PR-2007 (E PR-2007 (E II II II II II	30-AUG-2006 05-AUG-2007 IBRATION DUE EU)/16-DEC-2006 (NEBS) EU)/16-DEC-2006 (NEBS) D-AUG-2007 CALIBRATION DUE OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007
SWEEPER AM/FM STEREO S IMPULSE GENER  GREE RED RENT/  CDN NETW  BLACK BLUE ORANGI RED WHITE YELLOW-BI GREEN	R SIG. GEN. RATOR  ON CLAMPS  IN ON	0.1-170MHz 1-100Hz RANGE 0.01-100MHz 0.01-100MHz 2 - 450MHz RANGE 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz	MN 95236-1 95236-1 9142-1N 20A 1 1 1 1 3	MFR ETS ETS SOLAR  MN M-2 (DC) 5A M-3 5A M-2 5A M-3 5A M-3 5A M-3 6A M-3 0A M-3	SN 50215 34026 008508 M C C C C C C C C C C C C C C C C C C	36873 290 ASSET 00118 1020 RENTAL FR -S -S -S -S -S -S	ASSET 00783 00806 00780 00782 00784 00779	00959 00942 05-A	PR-2007 (E PR-2007 (E PR-2007 (E II II II II II II	30-AUG-2006 05-AUG-2007 IBRATION DUE EU)/16-DEC-2006 (NEBS) EU)/16-DEC-2006 (NEBS) D-AUG-2007 CALIBRATION DUE OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE
SWEEPER AM/FM STEREO S IMPULSE GENER  GREE RED RENT/  CDN NETW  BLACK BLUE ORANGI RED WHITE YELLOW-BL	R SIG. GEN. RATOR  ON CLAMPS  IN ON	0.1-170MHz 1-100Hz RANGE 0.01-100MHz 0.01-100MHz 2 - 450MHz RANGE 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz	MN 95236-1 95236-1 9142-1N 20A 1 1 1 1 3	MFR ETS ETS SOLAR  MN M-2 (DC) 5A M-2 5A M-3 5A M-3 5A M-3 5A M-3 5A M-3	SN 50215 34026 008508 M C C C C C C C C C C C C C C C C C C	36873 290 ASSET 00118 1020 RENTAI FR -S -S -S -S -S -S -S	ASSET 00783 00806 00786 00782 00784	00959 00942 05-A	PR-2007 (EPR-2007) (EP	30-AUG-2006 05-AUG-2007 IBRATION DUE EU)/16-DEC-2006 (NEBS) EU)/16-DEC-2006 (NEBS) D-AUG-2007 CALIBRATION DUE OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007
SWEEPER AM/FM STEREO S IMPULSE GENER  GREE RED RENT/  CDN NETW  BLACK BLUE ORANGI RED WHITE YELLOW-BI GREEN	R SIG. GEN. RATOR  ON CLAMPS EN O AL OORKS E E LACK	0.1-170MHz 1-100Hz RANGE 0.01-100MHz 0.01-100MHz 2 - 450MHz RANGE 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz	LG3236 CIG-25 MN 95236-1 95236-1 9142-1N 20A 1 1 1 1 1 3 3	MFR ETS ETS SOLAR  MN M-2 (DC) 5A M-3 5A M-2 5A M-3 5A M-3 5A M-3 6A M-3 0A M-3	SN 50215 34026 008508 M C C C C C C C C C C C C C C C C C C	36873 290 ASSET 00118 1020 RENTAI FR -S -S -S -S -S -S -S -S -S	ASSET 00783 00806 00780 00782 00784 00779	00959 00942 05-A	PR-2007 (E PR-2007 (E PR-2007 (E II II II II II II	30-AUG-2006 05-AUG-2007 IBRATION DUE EU)/16-DEC-2006 (NEBS) EU)/16-DEC-2006 (NEBS) D-AUG-2007 CALIBRATION DUE OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE
SWEEPER AM/FM STEREO S IMPULSE GENER  GREE RED RENT/  CDN NETW  BLACK BLUE ORANGI RED WHITE YELLOW-BI GREEN YELLOW	R SIG. GEN. RATOR  ON CLAMPS EN O AL OORKS ELACK I V UIITE	0.1-170MHz 1-100Hz RANGE 0.01-100MHz 0.01-100MHz 2 - 450MHz RANGE 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz	LG3236 CIG-25 MN 95236-1 95236-1 9142-1N 20A 1 1 1 1 1 3 3	MFR ETS ETS SOLAR  MN M-2 (DC) 5A M-3 5A M-2 5A M-3 5A M-3 5A M-3 0A M-3 0A M-5	SN 50215 34026 008508 M C C C C C C C C C C C C C C C C C C	36873 290 ASSET 00118 1020 RENTAI FR -S -S -S -S -S -S -S -S -S -S	ASSET 00783 00806 00786 00782 00784 00779 00804	00959 00942 05-A	PR-2007 (EPR-2007) (EP	30-AUG-2006 05-AUG-2007 IBRATION DUE EU)/16-DEC-2006 (NEBS) D-AUG-2007 CALIBRATION DUE OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007
SWEEPER AM/FM STEREO S IMPULSE GENER  GREE RED RENT/  CDN NETW  BLACK BLUE ORANGI RED WHITE YELLOW-BL GREEN YELLOW BLUE-WH	R SIG. GEN. RATOR  ON CLAMPS  EN O AL OORKS  E E E E LACK I V IIITE	0.1-170MHz 1-100Hz RANGE 0.01-100MHz 0.01-100MHz 2 - 450MHz RANGE 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz	LG3236 CIG-25 MN 95236-1 95236-1 9142-1N 20A 1 1 1 1 1 3 3	MFR ETS ETS SOLAR  MN M-2 (DC) 5A M-3 5A M-2 5A M-3 5A M-3 5A M-3 0A M-3 0A M-5 5A M-5 M-3	SN 50215 34026 008508 M C C C C C C C C C C C C C C C C C C	36873 290 ASSET 00118 1020 RENTAI FR -S -S -S -S -S -S -S -S -S -S	ASSET 00783 00806 00786 00782 00784 00779 00804 00788	00959 00942 05-A	PR-2007 (EPR-2007 (EPR-200	30-AUG-2006 05-AUG-2007 IBRATION DUE EU)/16-DEC-2006 (NEBS) D-AUG-2007 CALIBRATION DUE OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 05-APR-2007 OUT OF SERVICE
SWEEPER AM/FM STEREO S IMPULSE GENER  GREE RED RENT/  CDN NETW  BLACK BLUE ORANGI RED WHITE YELLOW-BI GREEN YELLOW BLUE-WH BROWN	R SIG. GEN. RATOR  ON CLAMPS  EN ON AL ON AL ON E E E E LACK I V HITE	0.1-170MHz 1-100Hz RANGE 0.01-100MHz 0.01-100MHz 2 - 450MHz RANGE 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz	MN  95236-1  95236-1  9142-1N  20A  1  1  1  3  3  1	MFR ETS ETS SOLAR  MN M-2 (DC) 5A M-3 5A M-2 5A M-3 5A M-3 5A M-3 0A M-3 0A M-5 5A M-5 M-3 M-3 M-3 M-3	SN 50215 34026 008508 M C C C C C C C C C C C C C C C C C C	36873 290 ASSET 00118 1020 RENTAI FR -S -S -S -S -S -S -S -S -S -S -S	ASSET 00783 00806 00786 00782 007784 007789 1170	00959 00942 05-A	PR-2007 (EPR-2007 (EPR-200	30-AUG-2006 05-AUG-2007 IBRATION DUE EU)/16-DEC-2006 (NEBS) D-AUG-2007 CALIBRATION DUE OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 05-APR-2007 OUT OF SERVICE 10-JAN-2007
SWEEPER AM/FM STEREO S IMPULSE GENER  GREE RED RENT/  CDN NETW  BLACK BLUE ORANGI RED WHITE YELLOW-BI GREEN YELLOW BLUE-WH BROWN BROWN-WI BROWN-BI BROWN-BI	R SIG. GEN. RATOR  ON CLAMPS  EN O AL  /ORKS  E E LACK I I HITE LACK	0.1-170MHz 1-100Hz RANGE 0.01-100MHz 0.01-100MHz 2 - 450MHz RANGE 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz	LG3236 CIG-25 MN 95236-1 95236-1 9142-1N 20A 1 1 1 1 1 3 3 1	MFR ETS ETS SOLAR  MN M-2 (DC) 5A M-3 5A M-2 5A M-3 5A M-3 6A M-3 0A M-5 5A M-5 M-3	SN 50215 34026 008508 M C C C C C C C C C C C C C C C C C C	36873 290 ASSET 00118 1020 RENTAI FR -S -S -S -S -S -S -S -S -S -S -S -S -S	ASSET 00783 00806 00786 00782 00784 00779 00804 00788 1169 1170 1171	00959 00942 05-A	PR-2007 (EPR-2007) (EP	30-AUG-2006 05-AUG-2007 IBRATION DUE EU)/16-DEC-2006 (NEBS) D-AUG-2007 CALIBRATION DUE OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 10-JAN-2007 10-JAN-2007
SWEEPER AM/FM STEREO S IMPULSE GENER GREE RED RENT/  CDN NETW  BLACK BLUE ORANGI RED WHITE YELLOW-BI GREEN YELLOW BLUE-WH BROWN-WI BROWN-WI BROWN-BL RED-BLA	R SIG. GEN. RATOR  ON CLAMPS  EN O AL  OORKS  E LACK I V HITE LACK CK	0.1-170MHz 1-100Hz RANGE 0.01-100MHz 0.01-100MHz 2 - 450MHz RANGE 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz	LG3236 CIG-25 MN 95236-1 95236-1 9142-1N 20A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MFR ETS ETS SOLAR  MN M-2 (DC) 5A M-3 5A M-2 5A M-3 5A M-3 6A M-3 0A M-3 0A M-5 5A M-5 M-3	SN 50215 34026 008508 M C C C C C C C C C C C C C C C C C C	36873 290 ASSET 00118 1020 RENTAI -S -S -S -S -S -S -S -S -S -S -S -S -S	ASSET 00783 00806 00786 00782 007784 007789 1170	00959 00942 05-A	PR-2007 (E PR-2007 (E PR-2007 (E II II II II II II II II II II II II	30-AUG-2006 05-AUG-2007 IBRATION DUE EU)/16-DEC-2006 (NEBS) EU)/16-DEC-2006 (NEBS) D-AUG-2007 CALIBRATION DUE OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 05-APR-2007 OUT OF SERVICE 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007 11-MAY-2007
SWEEPER AM/FM STEREO S IMPULSE GENER GREE RED RENT/  CDN NETW  BLACK BLUE ORANGI RED WHITE YELLOW-BL GREEN YELLOW BLUE-WH BROWN-BL BROWN-BL RED-BLA GREEN-WH GREEN-WH	R SIG. GEN. RATOR  ON CLAMPS  EN ) AL  VORKS  E  LACK I V IIITE N HITE LACK CK HITE	0.1-170MHz 1-100Hz RANGE 0.01-100MHz 0.01-100MHz 2 - 450MHz RANGE 0.10-100MHz	LG3236 CIG-25 MN 95236-1 95236-1 9142-1N 20A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MFR ETS ETS SOLAR  MN M-2 (DC) 5A M-3 5A M-2 5A M-3 5A M-3 6A M-3 0A M-3 0A M-5 5A M-5 M-3	SN 50215 34026 008508 M C C C C C C C C C C C C C C C C C C	36873 290 ASSET 00118 1020 RENTAI FR -S -S -S -S -S -S -S -S -S -S -S -S -S	ASSET 00783 00806 00786 00782 00784 00779 00804 00788 1169 1170 1171	00959 00942 05-A	PR-2007 (E PR-2007 (E PR-2007 (E II II II II II II II II II II II II II	30-AUG-2006 05-AUG-2007 IBRATION DUE EU)/16-DEC-2006 (NEBS) EU)/16-DEC-2006 (NEBS) D-AUG-2007 CALIBRATION DUE OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 05-APR-2007 OUT OF SERVICE 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007 11-MAY-2007 01-AUG-2007
SWEEPER AM/FM STEREO S IMPULSE GENER GREE RED RENT/  CDN NETW  BLACK BLUE ORANGI RED WHITE YELLOW-BI GREEN YELLOW BLUE-WH BROWN BROWN-WI BROWN-BI RED-BLA GREEN-WI YELLOW (F	R SIG. GEN. RATOR  ON CLAMPS  IN ON	0.1-170MHz 1-100Hz  RANGE  0.01-100MHz 0.01-100MHz 2 - 450MHz  RANGE  0.10-100MHz 0.15-80MHz 0.10-100MHz	MN  95236-1  95236-1  9142-1N  20A  1  1  1  M  M  M  M  100Ω RES	MFR ETS ETS SOLAR  MN M-2 (DC) 5A M-3 5A M-3 5A M-3 5A M-3 0A M-5 5A M-5 M-3 0A M-5 5A M-5 M-3 0-2 (DC) -2 (DC) -2 (DC) -2 (DC)	SN 50215 34026 008508 M C C C C C C C C C C C C C C C C C C	36873 290 ASSET 00118 1020 RENTAL FR -S -S -S -S -S -S -S -S -S -S -S -S -S	ASSET 00783 00806 00786 00782 00784 00779 00804 00788 1169 1177 00810	00959 00942 05-A	PR-2007 (E PR-2007 (E PR-2007 (E II II II II II II II II II II II II II	30-AUG-2006 05-AUG-2007 IBRATION DUE EU)/16-DEC-2006 (NEBS) EU)/16-DEC-2006 (NEBS) D-AUG-2007 CALIBRATION DUE OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 05-APR-2007 OUT OF SERVICE 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007
SWEEPER AM/FM STEREO S IMPULSE GENER GREE RED RENT/  CDN NETW  BLACK BLUE ORANGI RED WHITE YELLOW-BL GREEN YELLOW BLUE-WH BROWN-BL BROWN-BL RED-BLA GREEN-WH GREEN-WH	R SIG. GEN. RATOR  ON CLAMPS  IN ON	0.1-170MHz 1-100Hz RANGE 0.01-100MHz 0.01-100MHz 2 - 450MHz RANGE 0.10-100MHz	MN  95236-1  95236-1  9142-1N  20A  1  1  1  1  M  M  M  100Ω RES  100Ω RES	MFR ETS ETS SOLAR  MN .M-2 (DC) 5A M-3 5A M-2 5A M-3 5A M-3 5A M-3 0A M-5 5A M-5 M-3 .C (DC) -2 (DC) -2 (DC) -2 (DC) -2 (DC) -12 (DC) ISTOR NWK (M-1)	SN 50215 34026 008508 M C C C C C C C C C C C C C C C C C C	36873 290 ASSET 00118 1020 RENTAI FR -S -S -S -S -S -S -S -S -S -S -S -S -S	ASSET 00783 00806 00786 00782 00784 00779 00804 00788 1169 1170 1171	00959 00942 05-A	PR-2007 (E PR-2007 (E PR-2007 (E II II II II II II II II II II II II II	30-AUG-2006 05-AUG-2007 IBRATION DUE EU)/16-DEC-2006 (NEBS) EU)/16-DEC-2006 (NEBS) D-AUG-2007 CALIBRATION DUE OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 05-APR-2007 OUT OF SERVICE 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007 11-MAY-2007 01-AUG-2007
SWEEPER AM/FM STEREO S IMPULSE GENER  GREE RED RENT/  CDN NETW  BLACK BLUE ORANGI RED WHITE YELLOW-BI GREEN YELLOW BLUE-WH BROWN-WI BROWN-WI BROWN-BL GREEN-WI YELLOW (F	R SIG. GEN. RATOR  ON CLAMPS  IN ON AL OORKS  E LACK IV UIITE N HITE LACK CK HITE RES) ES)	0.1-170MHz 1-100Hz  RANGE  0.01-100MHz 0.01-100MHz 2 - 450MHz  RANGE  0.10-100MHz 0.15-80MHz 0.10-100MHz	MN 95236-1 95236-1 9142-1N 20A 1 1 1 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	MFR ETS ETS SOLAR  MN .M-2 (DC) 5A M-3 5A M-2 5A M-3 5A M-3 5A M-3 0A M-5 5A M-5 M-3 .C (DC) -2 (DC) -2 (DC) -2 (DC) -2 (DC) -12 (DC) ISTOR NWK (M-1)	SN 50215 34026 008508 M C C C C C C C C C C C C C C C C C C	36873 290 ASSET 00118 1020 RENTAL FR -S -S -S -S -S -S -S -S -S -S -S -S -S	ASSET 00783 00806 00780 00782 00784 00779 00804 00788 1169 1177 00810 1172	00959 00942 05-A	PR-2007 (EPR-2007) (EP	30-AUG-2006 05-AUG-2007 IBRATION DUE EU)/16-DEC-2006 (NEBS) EU)/16-DEC-2006 (NEBS) D-AUG-2007 CALIBRATION DUE OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 05-APR-2007 OUT OF SERVICE 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007
SWEEPER AM/FM STEREO S IMPULSE GENER  GREE RED RENT/  CDN NETW  BLACK BLUE ORANGI RED WHITE YELLOW-BI GREEN YELLOW BLUE-WH BROWN-WI BROWN-WI BROWN-BL RED-BLA GREEN-WI YELLOW (F GREEN (R	R SIG. GEN. RATOR  ON CLAMPS EN ON AL OORKS  E LACK IN HITE ACK CK HITE RES) ES) SE CART	0.1-170MHz 1-100Hz  RANGE 0.01-100MHz 0.01-100MHz 2 - 450MHz  RANGE 0.10-100MHz	MN  95236-1  95236-1  9142-1N  20A  1  1  1  1  M  M  M  100Ω RES  100Ω RES	MFR ETS ETS SOLAR  MN .M-2 (DC) 5A M-3 5A M-2 5A M-3 5A M-3 5A M-3 0A M-5 5A M-5 M-3 .C (DC) -2 (DC) -2 (DC) -2 (DC) -2 (DC) -12 (DC) ISTOR NWK (M-1)	SN 50215 34026 008508 M C C C C C C C C C C C C C C C C C C	36873 290 ASSET 00118 1020 RENTAL FR -S -S -S -S -S -S -S -S -S -S -S -S -S	ASSET 00783 00806 00780 00782 00784 00779 00804 00788 1169 1177 00810 1172	00959 00942 05-A	PR-2007 (EPR-2007) (EP	30-AUG-2006 05-AUG-2007 IBRATION DUE EU)/16-DEC-2006 (NEBS) EU)/16-DEC-2006 (NEBS) D-AUG-2007 CALIBRATION DUE OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 10-JAN-2007 OUT OF SERVICE 05-APR-2007 OUT OF SERVICE 10-JAN-2007 10-JAN-2007 10-JAN-2007 10-JAN-2007 11-MAY-2007 01-AUG-2007 05-OCT-2006 30-JAN-2007



OSCILLOSCOPES	MN		MFR		SN	ASSET	Сат	CALIBRATION DUE
EMC 100MHz	TDS 22		TEKTRONIX		036986	1166	1	28-AUG-2007
ESD REFERENCE 1GHZ	TDS 684		TEKTRONIX		8011287	RENTAL	1	31-MAR-2007
PRODUCT SAFETY 100 MHz	TDS 34	0	TEKTRONIX	В	3012357	00737	I	06-OCT-2006
TELECOM 100 MHz	54645A	١	HP/AGILENT	US	36320452	00103	I	30-JUN-2007
RMS VOLTMETERS/CURRENT CL	.AMP	MN	MNFR		SN	ASSET	Сат	CALIBRATION DUE
TRUE-RMS MULTIMETER		79111	FLUKE	-	1700298	00769	!	25-OCT-2006
TRUE-RMS MULTIMETER (REFEREN	ICE)	177	FLUKE		3390024	00973	Į.	21-MAR-2007
TRUE-RMS MULTIMETER		177	FLUKE		3390025	00974	I	10-MAR-2007
TRUE-RMS MULTIMETER (TELECO	M)	177	FLUKE	83	3430419	00975	ı	21-MAR-2007
Surge Generators			ЛN	MFR	SN	ASSET	CAT	CALIBRATION DUE
	TOD						САТ	CALIBRATION DUE
TRANSIENT WAVEFORM MONI			/M-5	CDI	003982	00323	II 	05-JUN-2007
Universal Surge Generat		-	M5	CDI	003966	00324	II 	OUT OF CAL
THREE PHASE COUPLING NV			CN	CDI	003455	00325	!!	OUT OF CAL
1.2x50uS Plugin Module			IS PLUGIN	CDI	N/A	00842	II 	OUT OF CAL
10x160uS PLUGIN MODULI			JS PLUGIN	C-S	N/A	00843	II	08-JUN-2007
10x560uS Plugin Moduli			JS PLUGIN	C-S	N/A	00841	II	08-JUN-2007
PSURGE CONTROLLER MODU			GE 8000	HAEFELY	150267	00879	II	06-JUN-2007
Coupling/Decoupling Mod	ULE		D 900	HAEFELY	149213	08800	II	06-JUN-2007
IMPULSE MODULE			1900	HAEFELY	149202	00881	II	06-JUN-2007
HIGH VOLTAGE CAP NWK 5KVDC	, 18μF	CS-I	HVCC	C-S	01	00772	Ш	28-SEP-2006
NEBS SURGE GENERATOR		N	I/A	C-S	N/A	88000	П	06-JUN-2007
2x10uS Surge Generato	R	2x*	10uS	C-S	N/A	00846	II	06-JUN-2007
10x700uS Surge Generat		10x7	700uS	C-S	N/A	00847	II	08-JUN-2007
12 Pair Surge Resistor Moi	DULE	N	I/A	C-S	N/A	00768	II	30-SEP-2006
Power/Noise Meters		MN	MFR		SN	ASSET	Сат	CALIBRATION DUE
Power Meter		435B	HP		445A11012	00773	I	12-APR-2007
Power Meter		437B	HP	_	912A01367	01099	I	12-APR-2007
Power Sensor		8481A	HP	2	702A61351	00774	I	12-APR-2007
PSOPHOMETER		2429	BRUEL & KJ	AER	1237642	00585	П	14-FEB-2007
TRANSMISSION LINE TESTER (DBRI	vC)	185T	AMREL		998658	00823	II	16-MAR-2007
OVERVOLTAGE CHAMBERS	MN	MFR		SN		ASSET	Сат	CALIBRATION DUE
72kW Power Fault Simulator	OV1	C-S		N/A		00792	II.	31-MAR-2007
POWER FAULT SIMULATOR	OV2	C-S		N/A		00116	II	31-MAR-2007
DIPOLE TAPE MEASURES	MN		MFR		SN	ASSET	Сат	CALIBRATION DUE
26FT TAPE #1	2338CN	/ E	LUFKIN		C3166-1	00776	I	13-MAR-2007
26FT TAPE #1	2338CN		LUFKIN		C3166-2	00770	i	13-MAR-2007
2011 174 2 7/2	2000011	<u></u>	LOTTUIT		001002	00111	•	10 10 11 11 2007
METEOROLOGICAL METERS		MN		MFR	SN	ASSET	Сат	CALIBRATION DUE
TEMP./HUMIDITY/ATM. PRESSURE GA	AUGE 740	00 PERCEPTION	л II ис	DAVIS	N/A	00965	ll l	08-FEB-2007
TEMPERATURE /HUMIDITY GAUG		THG-912	_	luger	4000562	00789	ï	01-FEB-2007
WEATHER CLOCK (PRESSURE ONI		BA928		N SCIENTIFIC	C3166-1	00831	i	02-FEB-2007
`								
CONSUMABLES	SPE	C.	MFR		Sтоск/MN	ASSET	Сат	CALIBRATION DUE
NEBS CHEESECLOTH	26-28N	1/KG	ED&D		ACC-01	N/A	III	N/A
NEBS CARBON BLOCK	3-MIL-GAP 1k	V SURGE	RELIABL	E	3AB	N/A	III	N/A

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



#### Jurisdictional Labeling and Required Instruction Manual Inserts

#### **FCC Requirements**

#### **Required Equipment Authorization for Device Type**

Type of Device	Equipment Authorization Required
TV broadcast receiver	Verification
FM broadcast receiver	Verification
CB receiver	Declaration of Conformity or Certification
Superregenerative receiver	Declaration of Conformity or Certification
Scanning receiver	Certification
All other receivers subject to part 15	Declaration of Conformity or Certification
TV interface device	Declaration of Conformity or Certification
Cable system terminal device	Declaration of Conformity
Stand-alone cable input selector switch	Verification
Class B personal computers and peripherals	Declaration of Conformity or Certification
CPU boards and internal power supplies used with Class B personal computers	Declaration of Conformity or Certification
Class B personal computers assembled using	Bediaration of Comornity of Certification
authorized CPU boards or power supplies	Declaration of Conformity
Class B external switching power supplies	Verification
Other Class B digital devices & peripherals	Verification
Class A digital devices, peripherals & external	
switching power supplies	Verification
All other devices	Verification

#### FCC Required labeling for Verified Devices 47 CFR Part 15.19

Verified devices must have the following label permanently affixed in a location accessible to the user:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

No distinction is made between Class A or Class B devices on the label.

When the device is so small or for such use that it is not practicable to place label on it, the information may be shall be placed in a prominent location in the instruction manual supplied to the user or, alternatively, shall be placed on the container in which the device is marketed.

Where a device is constructed in two or more sections connected by wires and marketed together, the label is only required to be affixed to the main control unit.

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# FCC Required labeling for Class B Personal Computers and Peripherals Devices 47 CFR Part 15.19 subject to Declaration of Conformity

Personal computers and peripherals subject to authorization under a Declaration of Conformity shall be labeled as follows:

- (1) The label shall be located in a conspicuous location on the device and shall contain the unique identification described in Section 2.1074 and the following logo:
- (i) If the product is authorized based on testing of the product or system:

Trade Name Model Number

Tested to Comply with FCC Standards

FOR HOME OR OFFICE USE

(ii) If the product is authorized based on assembly using separately authorized components and the resulting product is not separately tested:

Trade Name Model Number

Assembled From
Tested Components
(Complete System Not Tested)

FOR HOME OR OFFICE USE

- (2) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (b)(1) of this section on it, such as for a CPU board or a plug-in circuit board peripheral device, the text associated with the logo may be placed in a prominent location in the instruction manual or pamphlet supplied to the user. However, the unique identification (trade name and model number) and the logo must be displayed on the device.
- (3) The label shall not be a stick-on, paper label. The label on these products shall be permanently affixed to the product and shall be readily visible to the purchaser at the time of purchase, as described in Section 2.925(d). "Permanently affixed" means that the label is etched, engraved, stamped, silk-screened, indelibly printed, or otherwise permanently marked on a permanently attached part of the equipment or on a nameplate of metal, plastic, or other material fastened to the equipment by welding, riveting, or a permanent adhesive. The label must be designed to last the expected lifetime of the equipment in the environment in which the equipment may be operated and must not be readily detachable.

#### FCC Required Instruction Manual Inserts CFR 47 Part 15.21 and 15.105

The user's manual must caution the user that changes or modifications not expressly approved by the manufacturer could void the user's FCC granted authority to operate the equipment. In addition the following information should be inserted:

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(a) For a Class A digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: this equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

(b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- (c) The provisions of paragraphs (a) and (b) of this section do not apply to digital devices exempted from the technical standards under the provisions of § 15.103.
- (d) For systems incorporating several digital devices, the statement shown in paragraph (a) or (b) of this section needs to be contained only in the instruction manual for the main control unit.



#### **Conditions Of Testing**

[Bureau Veritas Consumer Products Services, Inc., a Massachusetts corporation], and/or its affiliates (collectively, the "Company") will conduct, at the request of the Submitter ("Client"), the tests specified on the submitted Test Request Form or equivalent in accordance with, and subject to, the following terms and conditions (collectively, "Conditions"):

- 1. All orders for tests are subject to acceptance by the Company, and no order will constitute a binding commitment of the Company unless and until such order is accepted by it, as evidenced by the issuance of a written report ("Test Report") by the Company. The Test Report is issued solely by the Company, is intended for the exclusive use of Client and shall not be published, used for advertising purposes, copied or replicated for distribution to any other person or entity or otherwise publicly disclosed without the prior written consent of the Company. By submitting a request for services to the Company, Client consents to the disclosure to accreditation bodies of those records of Client relevant to the accreditation body's assessment of the Company's competence and compliance with relevant accreditation criteria. The Company shall not be liable for any loss or damage whatsoever resulting from the failure of the Company to provide its services within any time period for completion estimated by the Company. If Client anticipates using the Test Report in any legal proceeding, arbitration, dispute resolution forum or other proceeding, it shall so notify the Company prior to submitting the Test Report in such proceeding. The Company has no obligation to provide a fact or expert witness at such proceeding unless the Company agrees in advance to do so for a separate and additional fee.
- 2. The Test Report will set forth the findings of the Company solely with respect to the test samples identified therein. Unless specifically and expressly indicated in the Test Report, the results set forth in such Test Report are not intended to be indicative or representative of the quality or characteristics of the lot from which a test sample is taken, and Client shall not rely upon the Test Report as being so indicative or representative of the lot or of the tested product in general. The Test Report will reflect the findings of the Company at the time of testing only, and the Company shall have no obligation to update the Test Report after its issuance. The Test Report will set forth the results of the tests performed by the Company based upon the written information provided to the Company. The Test Report will be based solely on the samples and written information submitted to the Company by Client, and the Company shall not be obligated to conduct any independent investigation or inquiry with respect thereto.
- 3. The Company may, in its sole discretion, destroy samples which have been furnished to the Company for testing and which have not been destroyed in the course of testing. The Company may delegate the performance of all or a portion of the services contemplated hereunder to an affiliate, agent or subcontractor of the Company, and Client consents to such delegation.
- 4. These Conditions and the Test Report represent the entire understanding of the parties hereto with respect to the subject matter hereof and of the Test Report, and no modification, variance or extrapolation with respect thereto shall be permitted without the prior written consent of the Company.
- 5. The names, service marks, trademarks and copyrights of the Company and its affiliates, including the names "BUREAU VERITAS," "BUREAU VERITAS CONSUMER PRODUCTS SERVICES," "BVCPS", "MTL", "ACTS", "MTL-ACTS" and CURTIS-STRAUS (collectively, the "Marks") are and shall remain the sole property of the Company or its affiliates and shall not be used by Client except solely to the extent that Client obtains the prior written approval of the Company and then only in the manner prescribed by the Company. Client shall not contest the validity of the Marks or take any action that might impair the value or goodwill associated with the Marks or the image or reputation of the Company or its affiliates.
- 6. Payment in full shall be due 30 days after the date of invoice. Interest shall be due on overdue amounts from the due date until paid at an interest rate of 1.5% per month or, if less, the maximum rate permitted by law. The Company reserves the right, at any time and from time to time, to revoke any credit extended to Client. Client shall reimburse the Company for any costs it incurs in collecting past due amounts, including court costs and fees and expenses of attorneys and collection agencies. The Test Report may not be used or relied upon by Client if and for so long as Client fails to pay when due any invoice issued by the Company or any affiliate of it to Client or any affiliate or subsidiary of Client together with interest and penalties, if any, accrued thereon.
- 7. The Company disclaims any and all responsibility or liability arising out of or in connection with e-mail transmissions of such information.
- 8. Client understands and agrees that the Company is neither an insurer nor a guarantor, that the Company does not take the place of Client or any designer, manufacturer, agent, buyer, distributor or transportation or shipping company, and that the Company disclaims all liability in such capacities. Client further understands that if it seeks assurance against loss or damage, it should obtain appropriate insurance.
- 9. Client agrees that the Company, by providing the services, does not take the place of Client nor any third party, nor does the Company release them from any of their obligations, nor does the Company otherwise assume, abridge, abrogate or undertake to discharge any duty of any third party to Client or any duty of Client or any third party to any other third party, and Client will not release any third party from its obligations and duties with respect to the tested goods.
- 10. Client shall, on a timely basis, (a) provide adequate instructions to the Company in order to enable the Company to perform properly its services, (b) provide, or cause Client's suppliers and contractors to provide, the Company with all documents necessary to enable the Company to perform its services, (c) furnish the Company with all relevant information regarding Client's intended use and purposes of the tested goods, (d) advise the Company of essential dates and deadlines relevant to the tested goods and (e) fully exercise all rights and remedies available to Client against third parties in respect of the tested goods.
- 11. The Company shall undertake due care and ordinary skill in the performance of its services to Client, and the Company shall accept responsibility only were such skill has not been exercised and, even in such event, only to the extent of the limitation of liability set forth herein.
- 12. If Client desires to assert a claim arising from or relating to (i) the performance, purported performance or non-performance of any services by the Company or (ii) the sale, resale, manufacture, distribution or use of any tested goods, it must submit that claim to the Company in a writing that sets forth with particularity the basis for such claim within 60 days from discovery of the potential claim and not more than six months after the date of issuance of the Test Report to Client. Client waives any and all such claims including, without limitation, claims that the Test Report is inaccurate, incomplete or misleading or that additional or different testing is required, unless and then only to the extent that Client submits a written claim to the Company within both such time periods.

  13. CLIENT SHALL, EXCEPT TO THE EXTENT OF COMPANY'S LIABILITY TO CLIENT HEREUNDER (WHICH IN NO EVENT SHALL EXCEED THE LIMITATION OF LIABILITY HEREIN), HOLD HARMLESS AND INDEMNIFY THE COMPANY, ITS



AFFILIATES AND THEIR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST ALL ACTUAL OR ALLEGED THIRD PARTY CLAIMS FOR LOSS, DAMAGE OR EXPENSE OF WHATSOEVER NATURE AND HOWSOEVER ARISING FROM OR RELATING TO (i) THE PERFORMANCE, PURPORTED PERFORMANCE OR NON-PERFORMANCE OF ANY SERVICES BY THE COMPANY OR (ii) THE SALE, RESALE, MANUFACTURE, DISTRIBUTION OR USE OF ANY TESTED GOODS.

- 14. EXCEPT AS MAY OTHERWISE BE EXPRESSLY AGREED TO IN WRITING BY THE COMPANY AND NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN OR IN ANY TEST REPORT, NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, IS MADE.
- 15. (A) IN NO EVENT WHATSOEVER SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, EXEMPLARY OR PUNITIVE DAMAGES IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE TEST REPORT OR THE SERVICES PROVIDED BY THE COMPANY HEREUNDER, INCLUDING WITHOUT LIMITATION LOSS OF OR DAMAGE TO PROPERTY; LOSS OF INCOME, PROFIT OR USE; OR ANY CLAIMS OR DEMANDS MADE AGAINST CLIENT OR ANY OTHER PERSON BY ANY THIRD PARTY IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE SERVICES PROVIDED BY THE COMPANY HEREUNDER.

(B)NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN, AND IN RECOGNITION OF THE RELATIVE RISKS AND BENEFITS TO CLIENT AND THE COMPANY ASSOCIATED WITH THE TESTING SERVICES CONTEMPLATED HEREBY, THE RISKS HAVE BEEN ALLOCATED SUCH THAT UNDER NO CIRCUMSTANCES WHATSOEVER SHALL THE LIABILITY OF THE COMPANY TO CLIENT OR ANY THIRD PARTY IN RESPECT OF ANY CLAIM FOR LOSS, DAMAGE OR EXPENSE, OF WHATSOEVER NATURE OR MAGNITUDE, AND HOWSOEVER ARISING, EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF THE FEES PAID TO THE COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM OR U.S.\$10,000, WHICHEVER IS THE LESSER AMOUNT.

- 16. The Company shall not be liable for any loss or damage resulting from any delay or failure in performance of its obligations hereunder resulting directly or indirectly from any event of force majeure or any event outside the control of the Company. If any such event occurs, the Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client.
- 17. Company's services, including these Conditions, shall be governed by, and construed in accordance with, the local laws of the country where the Company performs the tests or, in the case of tests performed in the United States of America, the laws of Massachusetts without regard to conflicts of laws principles. If any aspect(s) of these Conditions is found to be illegal or unenforceable, the validity, legality and enforceability of all remaining aspects of these Conditions shall not in any way be affected or impaired thereby. Any proceeding related to the subject matter hereof shall be brought, if at all, in the courts of the country where the Company performs the tests or, in the case of tests performed in the United States of America, in the courts of Massachusetts. Client waives the right to interpose any counterclaim or setoffs of any nature in any litigation arising hereunder.

Rev.160009121(2)\_#684340 v13CS



#### A2LA Accreditation

#### SCOPE OF ACCREDITATION TO ISO/IEC 17025-1999

CURTIS-STRAUS<sup>1</sup> 527 Great Road Littleton, MA 01460 Barry Quinlan Phone: 978-486-8880

Valid until: July 31, 2007

Certificate Number: 1627.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following Electromagnetic Compatibility (EMC), Telecommunications, and Product

#### Electromagnetic Compatibility (EMC)

Electromagnetic Companionity (EMC)

Radiated emissions testing (electric and magnetic fields)\*: Conducted emissions testing (voltage and current)\*; Electrostatic Discharge testing\*: Electrical Fast Transient testing\*: Radiated Immunity testing\*: Conducted Immunity testing\*: Lightning Immunity testing\*; Voltage Disp\*: Interrupts and Voltage Variations testing\*; Magnetic Immunity testing\*: RF Power measurements\*; Frequency Stability Measurements\*: Longitudinal Induction measurements\*: Armonic emissions testing\*: Light flicker testing\*: Low frequency disturbance voltage testing\*; Disturbance Power measurements\*; Power Cross Overvoltage testing\*;

Test Type	Test Method(s)		
Emissions			
Radiated and Conducted Emissions	FCC 47 CFR Parts 15 & 18; C63.4; CISPR 22; EN55022; 8ABS CISPR 22; A3/NZS CISPR 22; A3/NZS 3548; Canada ICES- 003; CNS13438; KN 22 (RRL No. 2005-82; September 29, 2005); CISPR 11; EN 55011; SABS CISPR 11; A5/NZS CISPR 11; AS/NZS 2064; Canada ICES-001; CNS1303; CISPR 13; EN 55013; SABS CISPR 13; A5/NZS CISPR 13; AS/NZS 1053; CISPR 14-1; EN 55014-1; SABS CISPR 14; A5/NZS CISPR 14; A5/NZS 1044; CNS 13439; CISPR 15; EN 55015; GR-1089- CORE; CSA C108.8-M1983;		
Harmonics	EN 61000-3-2; AS/NZS 61000.3.2		
Flicker	EN 61000-3-3; AS/NZS 61000.3.3		

1 Note: This accreditation covers testing performed at the laboratory listed above and the satellite facility located at 168 Ayer Rd, Littleton, MA 01460 and, for test types marked with an asterisk, at other sites as defined in "A2LA specific criteria for the accreditation of site testing and site calibration laboratories."

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Immunity	RRL No. 2005-130 (December 27, 2005)
Electrostatic Discharge (ESD)	EN 61000-4-2; AS/NZS 61000.4.2; KN61000-4-2
Radiated Immunity (RFI)	EN 61000-4-3, AS/NZS 61000.4.3; KN61000-4-3
Electrical Fast Transient Bursts (EFT)	EN 61000-4-4; AS/NZS 61000.4.4; KN61000-4-4
Surge	EN 61000-4-5, AS/NZS 61000.4.5; KN61000-4-5
Conducted Immunity	EN 61000-4-6, AS/NZS 61000.4.6; KN61000-4-6
Magnetic Immunity	EN 61000-4-8; AS/NZS 61000.4.8; KN61000-4-8
Voltage Dips and Interrupts	EN 61000-4-11; KN61000-4-11
Low Frequency Conducted Disturbances	EN 61000-2-2

Family Product or Industry Specific Specifications including emissions and/or immunity	GR-1089-CORE; GR-78-CORE (ESD) ENS0081-1; ENS0081-2; ENS0082-1; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-4; EN 50091-2; EN 55024; CISPR 24 EN 55103-1; EN 55013-2; EN 61326; EN 61547; EN 63103-4; EN 50081-2; EN 66001-2-2; EN 60601-2-38; EN 60601-2-247; IEC 1800-3; EN 61800-3; EN 55020-CISPR 20: EN 6058 Part 2:
	61800-3; EN 3020; CISFX QU, EN 6003-3 Falt 2; EN 60555 Part 3; ETS 300 386-1; EN 300 386-2; EN 300 386, ETS 300 132-1; ETS 300 132-2; EN 60669-2-1; AS/NZS 3200.1.2; CNS 13783-1; ETR 283; C62.41
Radiocommunications	
EU R&TTE Radio Standards;	EN 300 220-1; EN 300 220-3; EN 300 330-1; EN 300 330-2; EN 300 440-1; EN 300 440-2; EN 300 328; EN 300 385; EN 301 893
EU R&TTE EMC Standards	EN 300 339; EN 301 489-01; EN 301 489-03; EN 301 489-17
Canada Radio Standards	RSS-102; RSS-117; RSS-118; RSS-119; RSS-123; RSS-125; RSS-128; RSS-129; RSS-130; RSS-131; RSS-132; RSS-133; RSS-134; RSS-135; RSS-136; RSS-137; RSS-138; RSS-141; RSS-142; RSS-170; RSS-181; RSS-182; RSS-187; RSS-188; RSS-191; RSS-192; RSS-193; RSS-195; RSS-210; RSS-212; RSS-213; RSS-215; RSS-243; RSS-GEN; RSS-310; GL-36;
Australia/New Zealand Radio Standards	AS/NZS 4268; AS/NZS 4771; RFS29; Radiocommunications (Data Transmission Equipment Using Spread Spectrum Modulation Techniques); Radiocommunications (Spread Spectrum Devices); Radiocommunications (Short Range Devices); Radiocommunications (Low Interference Potential Devices);

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Other Rad	dio Standards	RTTE 01 (DGT-Taiwan);	
FCC Star	ndards and Test methods Support	ГСВ Status	
FCC Scop	oe A – Unlicensed Radio Frequency L	Devices	
A1	1. 47 CFR Parts 11, 15 and 1	8	
	2. FCC MP-5,		
	<ol><li>ANSI C63.4-2003,</li></ol>		
A2	1. 47 CFR Part 15,		
	<ol><li>ANSI C63.4-2003,</li></ol>		
A3	1. 47 CFR Part 15,		
	2. ANSI C63.17-1998,		
	3. ANSI C63.4-2003,		
A4	1. 47 CFR Part 15,		
	<ol><li>ANSI C63.4-2003,</li></ol>		
FCC Scop	oe B – Licensed Radio Service Equips	nent	
B1	1. 47 CFR Parts 2, 22, 24, 25	, and 27	
	2. ANSI/TIA-603-C (2004)		
B2	1. 47 CFR Parts 2, 22, 74, 90	, 95, and 97	
	2. ANSI/TIA-603-C (2004)		
B3	1. 47 CFR Parts 2, 80, and 87	1	
	2. ANSI/TIA-603-C (2004)		
B4	1. 47 CFR Parts 2, 21, 74, an	d 101	
	2. ANSI/TIA-603-C (2004)		

ITU EMC Standards	K.20; K.21; K.41; K.44	
Swedish EMC Standards	BAKOM 3336.3	
South African EMC Standards other then CISPR	SABS 1718-1; SANS 211/SABS CISPR 11;	
equivalents	SANS 224/SABS CISPR 24;	
-	SANS 213/SABS CISPR 13;	
	SANS 2200; SANS214-1/SABS CISPR 14-1;	
	SANS214-2/SABS CISPR 14-2;	
	SANS 215/SABS CISPR 15;	
	SANS 222/SABS CISPR 22	
Hong Kong EMC Standards	HKTA 1006; HKTA 1007; HKTA 1008;	
	HKTA 1010; HKTA 1015; HKTA 1026;	
	HKTA 1035; HKTA 1039; HKTA 1041;	
	HKTA 1042; HKTA 1045	
Singapore EMC Standards	IDA TS SRD; IDA TS EMC	
Jananese VCCI Standards	VCCI V-3, VCCI V-4	

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Telecommunications
Telecommunications Registration; General test methods; Lightning surge\*; Drop testing\*; Balance testing\*;
Signal power (metallic and longitudinal)\*; Frequency measurements\*; Pulse templates\*; Leakage testing\*;
Impedance testing\*; Hearing Aid Compatibility testing (excluding volume control)\*; Protocol analysis\* and Jitter testing\*.

#### Telecom Standards

North American standards FCC 47 CFR Part 68 Telephone Connection of terminal equipment to the telephone Connection of terminal equipment to the telephone network. Analog and Digital Equipment. TCB Scope C1. Specification for terminal equipment, terminal systems, Network protection devices, connection arrangements and hearing aids compatibility.

Bulletin Part 68 Rationale and Measurement Guidelines Terminal Equipment CS-03 Issue 9 TIA/EIA TSB31-B 1998 (Feb 1998) TIA-968-A, A1, A2, A3 Telecommunications Telephone Terminal Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone Network Technical Requirements for SHDSL, HDSL2, HDSL4 Digital Subscriber Line Terminal Equipment T1.TRQ.6-2001

to Prevent Harm to the Telephone Network Industry Analogue interworking and non-interference requirements for Customer Equipment for connection to the Public Switched Telephone Network Requirements for Customer Equipment for AS/ACIF S002-2001 AS/ACIF S016-2001 AS/ACIE S031-2001

Requirements for Customer Equipment for connection to hierarchical digital interfaces Requirements for ISDN Basic Access Interface Requirements for ISDN Primary Rate Access Interface Requirements for Customer Equipment for Connection to a Metallic Local Loop Interface of a Telescopies in the Newsder AS/ACIF S031-2001 AS/ACIF S038-2001 AS/ACIF S043-2001 Telecommunications Network -Part 1: General Part 2: Broadband

Part 3: DC, Low Frequency AC and Voice band International standards ITU-T G.703

Physical/electrical characteristics of hierarchical Digital interfaces

Hong Kong standards HKTA 2011 Network Connection Specification for Connection of Customer Premises Equipment (CPE) to Direct Exchange Lines (DEL) of the Public Switched Telephone Network

(PSTN) in Hong Kong Network Connection Specification for Connection of HKTA 2014 Network Connection Specification for Connection of Customer Premises Equipment (CPE) to the Public Telecommunications Network (PTN) in Hong Kong using ISDN Basic Rate Access (BRA) based on ITU-T

Recommendations

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INTER 2005  TAX 2006  TAX 2007  TAX	Felecom Standards	<u>Title</u>	European standards (cont'd)	
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EXT. 2019  EXT. 2010  EXT. 2010  EXT. 2011  EXT. 2012  EXT. 2013  EXT. 2012  EXT. 2013  EXT. 2013  EXT. 2014  EXT. 2013  EXT. 2014  EXT. 2014  EXT. 2015  EXT. 2015  EXT. 2015  EXT. 2015  EXT. 2015  EXT. 2015  EXT. 2016  EXT. 2016  EXT. 2016  EXT. 2016  EXT. 2016  EXT. 2017				
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EXT. 2020  Service Control of Technological for Control of Technological f				
EXT. 2021  EXT. 2021  EXT. 2021  EXT. 2021  EXT. 2021  EXT. 2021  EXT. 2022  EXT. 2023  EXT. 2022	HKTA 2030	Network Connection Specification for Connection of		(DTMF) signaling
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EXT 2023 Approach Specification for Connection of Connecti				
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NETA 2033  Network Connection Specification for Connection of Connection			New Zealand standards	Connection to Fubile Switched Telephone Network
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The Communication Assertable as Ballet (page until below of TFU? Recommendation G.972.2 PT. 279 Pt. 27				
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Transformer softworkers   Sound level*   Handle loading*   Liquid overflow*   Spillage*   Liquid leakage*   University	Product Safety General test methods: Power input*, Permanence of marking*, Access	ssibility*, Permissibly limits*, Energy hazard	IEC 60825-1 2001	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical
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Product Safety Standards  Title    Product Safety Standards   Safety requirements for electrical equipment for measurement, control, and laboratory use. Part 1: General requirements for safety of information technology equipment	General test methods:  Ower input*, Permanence of marking*, Acceeneasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity conditioni ZTI9*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str. Component abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Was	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, publes*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, ull mount*, Laser radiation (excluding x-ray)*, Voltage surge*,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AMZ - 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1995 CAN/CSA E335-1 1994	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements
Product Safety Standards    Safety of information technology equipment   EC 60950 1:909   Safety of information technology equipment   EC 60950 1:909   Safety of information technology equipment   EC 60950 1:909   Safety of information technology equipment   EC 60950 1:900   Safety of information technology equipment   EC 60950 1:900   Safety of information technology equipment   EC 60950 1:2001   Electrical business equipment.   UL 60950 1:000   Safety of information technology equipment   EC 60950 1:2001   Electrical business equipment.   UL 6010 1:2004   Electrical Equipment For Measurements   EC 60950 1:2001   Electrical Equipment for measurement, control and Information Technology Equipment   Safety   Economic Part 1: General Requirements   EC 60050 1:2003   Electrical Equipment for measurement, control and Information Technology Equipment   Ec 60050 1:2003   Electrical Equipment   Ec 60050 1:2003   Electrical Equipment   Ec 60050 1:2003   Electrical Equipment   For Measurement, control and Information technology equipment   Electrical Equipment   For Measurement, control and Information technology equipment   Electrical Equipment   For Measurement, control and Information Technology Equipment   Electrical Equipment   For Measurement, control and Information Technology Equipment   Electrical Equipment   For Measurements, control and Information Technology Equipment   Electrical Equipment   For Measurement, control and Information Technology Equipment   Electrical Equipment   For Measurement, control and Information Technology Equipment   Electrical Equipment   For Measurement, control and Information Technology Equipment   Electrical Equipment   For Measurement, control and Information Technology Equipment   Electrical Equipment   For Measurement, control and Information Technology Equipment   Electrical Equipment   For Measurement, control and Information Technology Equipment   Electrical Equipment   For Measurement, control and Information   Electrical Equipment   For Measurement, control and Information	General test methods:  "ower input", Permanence of marking", Acces neasurement", SELV circuits", TNV limits", imitation", Ring signals', Humidity conditioni TID", Limited power measurement", Ground Applied force", Steel sphere impact", Mold st Component abnormal*. Electric strengths', Implame "Needle flame", Hot flaming oils', Lock Torques', Insulation resistances", Sound levels', Transformer shorts', coverloads*, Rain test", Wa "unctionalitys', Protective impedance abnormal	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ced rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 14*, Capacitor short circuit abnormal*, Output abnormal*, Multi-	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AMZ - 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1995 CAN/CSA E335-1 1994	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General
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JL 60950-1 2003  SAC C22 2 No. 60950-10 03  SAC C22 2 No. 60950-10 03  SAC C22 2 No. 60950-10 03  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  Safety requirements for safety requirements for safety requirements for laboratory use Part 1: General requirements.  Medical electrical equipment for laboratory use Part 1: General requirements for safety.  Safety Requirements for Safety Requirements for safety Requirements for Safety Requirements for Safety Safety.  Safety Requirements for Safety Safety Requirements for Safety S	General test methods:  "Ower inputh," Permanence of marking", Access neasurement", SELV circuits", TNV limits*, imitation", Ring signal", Humidity conditioni TII)*, Limited power measurement", Ground Applied force*, Steel sphere impact", Mold st component abnormal*. Electric strength*, Imp lame*, Needle flame*, Hot flaming oil*, Lock forque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa "unctionality", Protectric impedance abnorma upply abnormal*, Cooling abnormal*, Heatin, Product Safety Standards  Specific Product Safety Standards  L. 60950 2000  EC 60950 1999	Limited current*, Capacitor Discharge / voltage  ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ced rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, lif*, Capacitor short circuit abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements
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EG 61010-1 1993 Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. EC 61010-1 2001 Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. EC 61010-1 2001 Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. EC 61010-1 2001 Electrical equipment for laboratory use Part 1: General requirements. EC 61010-1 1995 (Including AM 2) Electrical equipment. Part 1: General requirements for safety. Medical electrical equipment. Part 1: General requirements for safety. Medical electrical equipment. Part 1: General requirements for safety. Medical electrical equipment. Part 1: General requirements for safety. Medical electrical equipment. Part 1: General requirements for safety. UL 60065: 2003 Audio, video and Similar electronic Apparatus – Safety Requirements For Safety – Section 1-1. Collateral Standard: Safety Requirements of Standard. Safety Safety of Standard. Safety Safety of Standard. Safety Requirements of Standard. Safety Safety of Standard. Safety Safety of Standard. Safety Safety Safety of Standard. Safety Safety of Standard. Safety Safety of Safety	General test methods:  "Ower inputs", Permanence of marking", Acces- neasurement", SELV circuits", TNV limits*,  imitation", Ring signal", Humidity conditioni TID", Limited power measurement", Ground Applied force", Steel sphere impact", Mold str Component abnormal", Electric strength", Imp Jame "Needle flame", Hot flaming oil", Lock Torque", Insulation resistance", Sound levels, Transformer shorts/overloads", Rain test", Wa "unctionality", Protective impedance abnorma upply abnormal". Cooling abnormal", Heatin, Product Safety Standards J. 60950 2000 EC 60950 1099 EN 60950 2000 EC 60950-1 2001 L 60950-1 2001 L 60950-1 2001 L 60950-1 2003	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, publes*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ced rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Ill mount*, Laser radiation (excluding x-ray)*, Voltage surge*, Il*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including	IBC: 60825-1 2001 IBC: 60825-2 2000-5 IBC: 60825-2 2000-5 IBC: 60825-4 1997-11 21 CFR 1040.10 IBC: 60335-1 1997 & AM 12 – 1997) EN: 60335-1 2001 UL: 60335-1 1998 CAN:CSA E335-1 1994 UL: 61010A-1: 2002 EN: 61010-1: 2001  AS/NZS: 60950: 2000 EN: 60950-1: 2001 AS/NZS: 60950.1: 2003	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and
control and laboratory use, Part 1: General requirements.  No foliol-1 1993, 2001  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  Lo foliols-1 2003  Lo foliols-1 2003  Lo foliols-1 2003  Electrical equipment for laboratory use Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements for safety.  Electrical equipment. Part 1: General requirements for safety.  Electrical equipment. Part 1: General requirements for safety.  Medical electrical equipment. Part 1: General requirements for safety.  Medical electrical equipment. Part 1: General Requirements for safety.  Medical electrical equipment. Part 1: General Requirements for safety.  Medical electrical equipment. Part 1: General Requirements for safety.  Electrol equipment. Part 1: General Requirements for safety.  Medical electrical equipment. Part 1: General Requirements for safety.  Electrol equipment. Part 1: General Requirements for safety.  Electrical equipment. Part 1: General Requirements for safety.  Medical Electrical Equipment For Medical Electrical Systems  Medical Electrical Equipments for Safety Systems  Medical Electrical Equipments for Safety Systems  Medical Electrical Equipments for Safety Systems  CSA 60065: 2003  Lo 60065: 2003  Audio, Video and Similar Electronic Apparatus – Safety Requirements  Audio, Video and Similar Electronic Apparatus – Safety Requirements  EN 60065: 2001  EN 60065: 2002  Audio, Video and Similar Electronic Apparatus – Safety Requirements  EN 60065: 2002  EN 60065:	ieneral test methods:  "ower input", Permanence of marking", Acceseneasurement", SELV circuits", TNV limits", imitation", Ring signal", Humidity conditioni TTI)*, Limited power measurement", Ground Applied force*, Steel sphere impact*, Mold stromponent abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer short/soverloads*, Rain test*, Wa'unctionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heating Product Safety Standards  "Orduct Safety Standards"  "Deectific Product Safety Standards  "Le 60950 1999  "Ne 60950 2000  EC 60950-1 2001  "Le 60950-1 2001  "Le 60950-1 2001  "Le 60950-1 2001  "SAC C22.2 No. 60950-00	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, publes*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ced rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Ill mount*, Laser radiation (excluding x-ray)*, Voltage surge*, Il*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including	IBC 60825-1 2001 IBC 60825-2 2000-5 IBC 60825-4 1997-11 21 CFR 1040.10 IBC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 2001 UL 60335-1 1998 CAN/CSA E333-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements
Na (1010-1 1993, 2001 EG (1010-1 2001 Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  La (1010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) Electrical equipment for laboratory use Part 1: General requirements for safety.  Medical electrical equipment. Part 1: General requirements for safety.  Medical electrical equipment. Part 1: General requirements for safety.  Medical electrical equipment. Part 1: General requirements for safety.  Medical electrical equipment. Part 1: General Requirements for safety.  Medical electrical equipment. Part 1: General Requirements for safety.  Medical electrical equipment. Part 1: General Requirements for safety.  Medical electrical equipment. Part 1: General Requirements for safety.  Medical electrical equipment Part 1: General Requirements for safety.  Medical electrical equipment. Part 1: General Requirements for safety.  Medical electrical equipment of Medical Electrical Systems  UL 60065: 2003  Medical Electrical Equipment - Part 1: General Requirements for Safety - Section 1-1. Collateral Standard: Safety Requirements of Systems  UL 60065: 2003  Medical Electrical Equipment - Part 1: General Requirements for Safety - Section 1-1. Collateral Standard: Safety Requirements for Safety - Section 1-1. Collateral Standard: Safety Requirements for Safety - Safety Requirements  National Standard - Safety Requirements for Safety - Safety Systems  UL 60065: 2003  Medical Electrical Equipment - Part 1: General Requirements for Safety - Safety Requirements  National Standard - Safety Requirements for Safety - Safety Requirements  National Standard - Safety Requirements for Safety - Safety	General test methods:  "Owew inputs," Permanence of marking", Acces- neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity conditioni TIPs, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold stromponent abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Lock forque*, Insulation resistance*, Sound level*, Iransformer shorts/overloads*, Rain test*, Wa "Qunctionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatin, Product Safety Standards II. 60950 2000  EG 60950 1909  EN 60950 2000  EC 60950-1 2001  JL 60950-1 2001  JL 60950-1 2001  SAA C2.2. No. 60950-00  SAA C2.2. No. 60950-103	Limited current*, Capacitor Discharge / voltage  ng*, Creepage / Clearance / Distance trun Insulation (excluding  Bond/Earthing*, Ground continuity*, Temperature*, Stability*,  ress*, Battery reverse current*, Ball pressure*, Leakage current*,  pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm  ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*,  Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*,  all mount*, Laser radiation (excluding x-ray)*, Voltage surge*,  1l*, Capacitor short circuit abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment  Safety of information technology equipment  Safety of information technology equipment, including  Electrical business equipment.	IBC 60825-1 2001 IBC 60825-2 2000-5 IBC 60825-4 1997-11 21 CFR 1040.10 IBC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 2001 UL 60335-1 1998 CAN/CSA E333-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Information Technology Equipment – Safety – General requirements Lectrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General
EG 6101-1 2001 L 610108-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) Electrical equipment for laboratory use Part 1: General requirements. EG 66601-1 1995 Medical electrical equipment for laboratory use Part 1: General requirements for safety.  EG 66601-1 1995 Medical electrical equipment. Part 1: General requirements for safety.  EG 60601-1 1995 (Including AM 2) Medical electrical equipment. Part 1: General requirements for safety.  EG 60605 1998, 2000 Medical electrical equipment. Part 1: General Requirements for safety.  EG 60605 1998, 2000 Audio, video and similar electronic apparatus - Safety requirements for safety.  EG 60065 1998, 2000 Audio, video and similar electronic apparatus - Safety requirements  ANSI/UL 6500: 1998 Audio, video and musical instrument apparatus for Household, commercial and similar general use detectronic and related Equipment.  Canadian C22.2 No. 1-94 (1-98) Audio, video and similar electronic equipment.  Consumer and commercial products Safety requirements for Medical Electrical Systems  UL 60065: 2003 Audio, Video and Similar Electronic Apparatus - Safety Requirements  CSA 60065: 2003 Audio, Video and Similar Electronic Apparatus - Safety Requirements  EC 60065: 2001 EN 60065: 2003 Audio, Video and Similar Electronic Apparatus - Safety Requirements  EN 60065: 2001 EN 60065: 2003 Audio, Video and Similar Electronic Apparatus - Safety Requirements  EN 60065: 2001 EN 60065: 2003 Audio, Video and Similar Electronic Apparatus - Safety Requirements  EN 60065: 2001 EN 60065: 2003 Audio, Video and Similar Electronic Apparatus - Safety Requirements  EN 60065: 2001 EN 60065: 2003 Audio, Video and Similar Electronic Apparatus - Safety Requirements  EN 60065: 2001 EN 60065: 2003 Audio, Video and Similar Electronic Apparatus - Safety Requirements  EN 60065: 2001 EN 60065: 2002 Audio, Video and Similar Electronic Apparatus - Safety Requirements  EN 60065: 2002 EN 60065: 2002 Audio, Video and Similar Electronic Apparatus - Safety Requirements  Safety of Machinery - Electrical Equipment of Machi	General test methods:  "Owew inputs," Permanence of marking", Acces- neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity conditioni TIPs, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold stromponent abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Lock forque*, Insulation resistance*, Sound level*, Iransformer shorts/overloads*, Rain test*, Wa "Qunctionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatin, Product Safety Standards II. 60950 2000  EG 60950 1909  EN 60950 2000  EC 60950-1 2001  JL 60950-1 2001  JL 60950-1 2001  SAA C2.2. No. 60950-00  SAA C2.2. No. 60950-103	Limited current*, Capacitor Discharge / voltage ng*, Crepage, Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, publes*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ced rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, ill mount*, Laser radiation (excluding x-ray)*, Voltage surge*, il*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.  Safety requirements for electrical equipment for measurement,	IBC 60825-1 2001 IBC 60825-2 2000-5 IBC 60825-2 2000-5 IBC 60825-4 1997-11 21 CFR 1040.10 IBC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2004	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety
IL 61010B-1 2003   Electrical equipment for laboratory use Part 1: General requirements.   Medical electrical equipment for laboratory use Part 1: General requirements for safety.   Medical electrical equipment. Part 1: General requirements for safety.   Medical electrical equipment. Part 1: General requirements for safety.   Medical electrical equipment. Part 1: General requirements for safety.   Medical electrical equipment. Part 1: General requirements for safety.   Medical electrical equipment. Part 1: General Requirements for safety.   Medical electrical equipment. Part 1: General Requirements for safety.   Medical electrical equipment. Part 1: General Requirements for safety.   Medical electrical equipment. Part 1: General Requirements for safety.   Medical electrical equipment. Part 1: General Requirements for safety.   Medical electrical equipment. Part 1: General Requirements for safety.   Medical electrical equipment. Part 1: General Requirements for Safety.   Medical electrical equipment. Part 1: General Requirements for Safety.   Medical electrical equipment.   Medical electrical equipment.   Part 1: General Requirements for Safety.   Medical electrical equipment.   Part 1: General Requirements for Safety.   Medical electrical equipment.   Part 1: General Requirements for Safety.   Medical electrical equipment.   Part 1: General Requirements for Safety.   Part 1: G	General test methods:  "Owwer ipune", Permanence of marking", Accessessurement", SELV circuits", TNV limits*, imitation". Ring signal", Humidity conditioni TTI", Limited power measurement", Ground Applied force", Steel sphere impact", Mold stromponent abnormal", Electric strength", Implame", Needle flame", Hot flaming oil", Lock forque", Insulation resistance", Sound levels, Transformer shorts/overloads*, Rain test", Wa'quactionality", Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatin, Product Safety Standards  Jacobs 2000  EC 60950 2000  EC 60950 12001  JL 60950-1 2001  JL 60950-1 2001  JL 60950-1 2001  SAA C22.2 No. 60950-00  SCAA C22.2 No. 60950-103  EC 61010-1 1993	Limited current*, Capacitor Discharge / voltage  ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, esses*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1#, Capacitor short circuit abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.	IBC 60825-1 2001 IBC 60825-2 2000-5 IBC 60825-2 2000-5 IBC 60825-4 1997-11 21 CFR 1040.10 IBC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2004	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General
Electrical equipment for laboratory use Part 1: General requirements.  EC 60601-1 1995   Medical electrical equipment. Part 1: General requirements for safety.  EN 60601-1 1995 (Including AM 2)   Medical electrical equipment. Part 1: General requirements for safety.  EN 60601-1 1997   Medical electrical equipment. Part 1: General Requirements for safety.  EC 60065 1998, 2000   Medical electrical equipment. Part 1: General Requirements for safety requirements or safety requirements  ENSI/UL 6500: 1998   Audio, video and similar electronic apparatus – Safety requirements  ENSI/UL 6500: 1998   Audiovideo and musical instrument apparatus for Household and similar electronic apparatus – Safety Requirements  ENSI/UL 6500: 1998   Audiovideo and musical instrument apparatus for Household and similar electronic equipment for household and similar general use.  EN 6005: 2001   EN 6005: 2002   Audiovideo and Similar electronic apparatus – Safety Requirements  EN 60061-1998   Audiovideo and Similar electronic apparatus – Safety Requirements  EN 60065: 2001   EN 60065: 2002   Audiovideo and Similar electronic apparatus – Safety Requirements  EN 60065: 2002   Audiovideo and Similar electronic Apparatus – Safety Requirements  EN 60065: 2001   EN 60065: 2002   Audiovideo and Similar electronic Apparatus – Safety Requirements  EN 60065: 2001   EN 60065: 2002   Audiovideo and Similar electronic Apparatus – Safety Requirements  EN 60065: 2002   Audiovideo and Similar electronic Apparatus – Safety Requirements  EN 60065: 2001   EN 60065: 2002   Audiovideo and Similar electronic Apparatus – Safety Requirements  EN 60065: 2001   EN 60065: 2002   Audiovideo and Similar electronic Apparatus – Safety Requirements  EN 60065: 2001   EN 60065: 2002   Audiovideo and Similar electronic Apparatus – Safety Safety of Machinery – Electrical Equipment of Machines – Part 1: Specification – Safety and Electrical Equipment of Machines – Part 1: Specification for General Requirements of Machines – Part 1: Specification – Safety and Electrical Equipm	General test methods:  "Ower inputs", Permanence of markings", Access neasurements, SELV circuitss", TNV limitss*, imitations*, Ring signals*, Humidity conditioni TIDs*, Limited power measurements*, Ground Applied forces*, Steel sphere impacts*, Mold str. Component abnormals*, Electric strengths*, Implames*, Needle flames*, Hot flaming oils*, Lock Torques*, Insulation resistances*, Sound levels*, Transformer shorts/overloads*, Rain tests*, Was "unctionalitys*, Protective impedance abnorma upply abnormals*, Cooling abnormals*, Heating Product Safety Standards LI 60950 2000 EC 60950 1999 SN 60950 2000 EC 60950-1 2001 LJ 60950-1 2003 SA C22.2 No. 60950-00 SSA C22.2 No. 60950-00 SSA C22.2 No. 60950-1 03 EC 61010-1 1993, 2001	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, puble*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all content of the strain of the str	IBC 60825-1 2001 IBC 60825-2 2000-5 IBC 60825-2 2000-5 IBC 60825-4 1997-11 21 CFR 1040.10 IBC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2004	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General
requirements.  Medical electrical equipment. Part 1: General requirements for safety.  Medical electrical equipment Part 1: General requirements for safety.  Medical electrical equipment. Part 1: General Requirements for safety.  Medical electrical equipment. Part 1: General Requirements for safety.  Medical electrical equipment. Part 1: General Requirements for safety.  EC 60065 1998, 2000 Medical electrical equipment. Part 1: General Requirements for safety.  EC 60065 1998, 2000 Audio, video and similar electronic apparatus – Safety requirements  Audio, video and Similar Electronic Apparatus – Safety Requirements  CSA 60065: 2003 Audio, video and Similar Electronic Apparatus – Safety Requirements  EC 60065 1998, 2000 Audio, video and similar general use Australian/New Zealand Standard – Approval and test Specification – Mains operated electronic and related Equipment for household and similar general use anadian C22.2 No. 1-94 (1-98) Audio, video and similar electronic equipment.  Consumer and commercial products  Safety requirements for main operated electronic and related apparatus for household and similar general use.  Radiation safety of laser products, equipment  Consumer and commercial products  Safety requirements for main operated electronic and related apparatus for household and similar general use.  Radiation safety of laser products, equipment  Consider to the Public Telecommunications Networks in Hong Kong	ieneral test methods:  "ower inputs", Permanence of marking", Acces- neasurement", SELV circuits", TNV limits", imitation", Ring signal", Humidity conditioni TID", Limited power measurement", Ground Applied force", Steel sphere impact", Mold str. Component abnormal", Electric strength", Imp lame ", Needle flame", Hot flaming oil", Lock forque", Insulation resistance", Sound levels, fransformer shorts/overloads", Rain test", Wa 'unctionality", Protective impedance abnorma upply abnormal". Cooling abnormal", Heatin, Product Safety Standards.  J. 60950 2000  EC 60950 1999  EC 60950 1999  EC 60950-1 2001  LG 60950-1 2001  SA C222 No. 60950-10  SEA C222 No. 60950-10  EC 61010-1 1993  EN 61010-1 1993, 2001  EC 61010-1 1993, 2001  EC 61010-1 2001  LG 61010-1 2001  LG 61010-1 2001	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, puble*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all content of the strain of the str	IBC: 60825-1 2001 IBC 60825-2 2000-5 IBC 60825-2 2000-5 IBC 60825-4 1997-11 21 CFR 1040.10 IBC: 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010 -1: 2004 UL 60601-1: 2004 UL 60601-1: 2003	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment + Part 1: General Requirements For Safety Medical Electrical Equipment + Part 1: General Requirements For Safety   Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Electrical Electrical Systems Medical Electrical Electrical Electrical Electrical Systems Medical Electrical Electrical Electrical Electrical Electrical Electrical Systems Medical Electrical Electri
safety.  Nedical electrical equipment Medical electronic apparatus – Safety Section Medical electrical equipment Medical electrical equipment Medical electronic apparatus – Safety Sequirments  CSA 60065: 2003  Audio, Video and Similar Electronic Apparatus – Safety Requirements  Audio, Video and Similar Electronic Apparatus – Safety Requirements  Audio, Video and Similar Electronic Apparatus – Safety Requirements  Electronic and similar general use Australian/New Zealand SixNZS 60065-00  Standard – Approval and test Specification – Mains operated electronic and related Equipment for household and similar general use  Audio, video and Similar Electronic Apparatus – Safety Requirements  EN 60065: 2001  EN 60065: 2002  EN 60065: 2002  EN 60204 - 1: 1998  Safety of Machinery – Electrical Equipment of Machines – Part 1: Specification For General Requirements  HKTA 2001  Compliance Test Specification – Safety and Electrical Protection Requirements for Subscriber Equipment Connected to the Public Telecommunications Networks In Hong Kong  EC 60825 1990  Radiation safety of laser products, equipment Classification, requirements and user's guide	ieneral test methods:  "ower inputs", Permanence of marking", Acces- neasurement", SELV circuits", TNV limits", imitation", Ring signal", Humidity conditioni TID", Limited power measurement", Ground Applied force", Steel sphere impact", Mold str. Component abnormal", Electric strength", Imp lame ", Needle flame", Hot flaming oil", Lock forque", Insulation resistance", Sound levels, fransformer shorts/overloads", Rain test", Wa 'unctionality", Protective impedance abnorma upply abnormal". Cooling abnormal", Heatin, Product Safety Standards.  J. 60950 2000  EC 60950 1999  EC 60950 1999  EC 60950-1 2001  LG 60950-1 2001  SA C222 No. 60950-10  SEA C222 No. 60950-10  EC 61010-1 1993  EN 61010-1 1993, 2001  EC 61010-1 1993, 2001  EC 61010-1 2001  LG 61010-1 2001  LG 61010-1 2001	Limited current*, Capacitor Discharge / voltage  ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 1:0mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1#, Capacitor short circuit abnormal*, Outge surge*, 1#, Capacitor short circuit abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.	IBC: 60825-1 2001 IBC 60825-2 2000-5 IBC 60825-2 2000-5 IBC 60825-4 1997-11 21 CFR 1040.10 IBC: 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010 -1: 2004 UL 60601-1: 2004 UL 60601-1: 2003	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Systems Medical Electrical Equipment - Part 1: General Requirements For Safety 2: Collateral Systems Medical Electrical Equipment - Part 1: General Requirements For Safety - Section 1-1. Collateral
Requirements   Requirements   Requirements   Requirements   Requirements   Requirements   Redical electrical equipment   Part 1: General Requirements   Factorial Experiments   Redical electronic apparatus - Safety   Requirements   Redical electronic apparatus - Safety   Requirements   Requirements   Redical electronic apparatus - Safety   Requirements   Requirem	General test methods:  "Owever inputs", Permanence of marking", Access neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity conditioni TIT)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imp Jame*, Needle flame*, Hot flaming oil*, Lock forque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa *unctionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatin, *Product Safety Standards* JL 60950 2000 EC 60950 12001 EC 60950 1999 EN 60950 2000 EC 60950-1 2001 JL 60950-1 2001 ZSA C22.2 No. 60950-1 03 EC 61010-1 1993 EN 61010-1 1993, 2001 EC 61010-1 2001 JL 61010B-1 2003 ZAN/CSA 1010-1 1999 (Including AM 2)  ZAN/CSA 1010-1 1999 (Including AM 2)	Limited current*, Capacitor Discharge / voltage  ng*, Creepage / Clearance / Distance thun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, puble*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm  ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1#, Capacitor short circuit abnormal*, Multi- gd evice abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements.	IBC: 60825-1 2001 IBC 60825-2 2000-5 IBC 60825-2 2000-5 IBC 60825-4 1997-11 21 CFR 1040.10 IBC: 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010 -1: 2004 UL 60601-1: 2004 UL 60601-1: 2003	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Safety information to the Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Squipment - Part 1: General Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Standard: Safety Requirements For Medical Electrical
JL 2601-1 1997 Medical electrical equipment. Part 1: General Requirements for safety.  EC 60065 1998, 2000 Audio, video and similar electronic apparatus – Safety requirements  ANSI/UL 6500: 1998 Audio, video and similar electronic apparatus – Safety Requirements  ANSI/UL 6500: 1998 Audio, video and musical instrument apparatus for Household, commercial and similar general use Australian/New Zealand  AS/NZS 60065-2000 Standard – Approval and test Specification – Mains operated electronic and related Equipment for household and similar general use electronic and related Equipment.  Canadian C22.2 No. 1-94 (1-98) Audio, video and Similar electronic equipment.  Consumer and commercial products  Safety equirements for Subscriber Equipment.  Consumer and commercial products  Safety requirements for Subscriber Equipment.  Connected to the Public Telecommunications Networks  In Hong Kong  EC 60825 1990 Radiation safety of laser products, equipment  Classification, requirements and user's guide	General test methods:  "ower input", Permanence of marking", Acces neasurement", SELV circuits", TNV limits", imitation", Ring signals', Humidity conditioni TID", Limited power measurement", Ground Applied force", Steel sphere impact", Mold st Component abnormal*. Electric strengths', Implame "Needle flame", Hot flaming oils', Lock Torques', Insulation resistances", Sound levels', Transformer shorts', coverloads*, Rain test", Wa "unctionalitys', Protective impedance abnormal	Limited current*, Capacitor Discharge / voltage  "e*, Creepage / Clearance / Distance thur Insulation (excluding  Bond/Earthing*, Ground continuity*, Temperature*, Stability*,  ress*, Battery reverse current*, Ball pressure*, Leakage current*,  pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm  ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*,  Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*,  Ill mount*, Laser radiation (excluding x-ray)*, Voltage surge*,  1#*, Capacitor short circuit abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment  Safety of information technology equipment  Safety of information technology equipment  Safety of information technology equipment,  Safety requirements for electrical equipment for measurement,  control and laboratory use, Part 1: General requirements.  Safety requirements for electrical equipment for measurement,  control and laboratory use, Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General  requirements.  Medical electrical equipment. Part 1: General requirements for	IBC 60825-1 2001 IBC 60825-2 2000-5 IBC 60825-4 1997-11 21 CFR 1040.10 IBC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010 -1: 2004 UL 60601-1: 2003 IBC 60601-1-1: 2000 EN 60601-1-1: 2000	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment — Part 1: General Requirements for Safety ! 1: Collateral Standard: Safety Requirements For Safety ! 1: Collateral Standard: Safety Requirements for Safety — Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Stystems
for safety.  EC 60065 1998, 2000 Audio, video and similar electronic apparatus – Safety requirements ANSI/UL 6500: 1998 Audio, video and similar general use Australian/New Zealand Six/NCSA 60065-00 Sandard – Approval and test Specification – Mains operated electronic and related Equipment for household and similar general use electronic equipment.  Audio, video and similar electronic equipment.  Audio, video and similar electronic equipment.  Compliance Test Specification – Safety and Electrical Protection Requirements  Compliance Test Specification – Safety and Electrical Protection Requirements  Compliance Test Specification – Safety and Electrical Protection Requirements for Subscriber Equipment of Machines  Connected to the Public Telecommunications Networks  In Hong Kong  EC 60825 1990 Radiation safety of laser products, equipment  Classification, requirements and user's guide	ieneral test methods:  "Owwer ipune", Permanence of marking", Acces- neasurement", SELV circuits", TNV limits", imitation", Ring signal", Humidity conditioni TTI)*, Limited power measurement", Ground Applied force", Steel sphere impact", Mold str Component abnormal*, Electric strength*, Imp Jame "Needle flame", Hot flaming oil", Lock forque", Insulation resistance", Sound level*, Transformer shorts/overloads*, Rain test", Wa "Quectionality", Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatin, Product Safety Standards J. 60950 2000 EC 60950 1200 EC 60950 12001 EC 60950-1 2001 J. 60950-1 2001 SAA C22.2 No. 60950-00 SSAA C22.2 No. 60950-10 3 EC 61010-1 1993, 2001 EC 61010-1 1999, Including AM 2) EC 60601-1 1995	Limited current*, Capacitor Discharge / voltage  ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*,  ress*, Battery reverse current*, Ball pressure*, Leakage current*,  puble*, Overvoltage*, Acoustic sound pressure*, I-30mm / 20mm  ced rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*,  Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*,  all mount*, Laser radiation (excluding x-ray)*, Voltage surge*,  1l*, Capacitor Short circuit abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment  Safety of information technology equipment  Safety of information technology equipment  Safety of information technology equipment, including  Electrical business equipment.  Safety requirements for electrical equipment for measurement,  control and laboratory use, Part 1: General requirements.  Safety requirements for electrical equipment requirements.  Electrical equipment for laboratory use Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements.  Medical electrical equipment. Part 1: General requirements for safety.	IBC 60825-1 2001 IBC 60825-2 2000-5 IBC 60825-4 1997-11 21 CFR 1040.10 IBC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010 -1: 2004 UL 60601-1: 2003 IBC 60601-1-1: 2000 EN 60601-1-1: 2000	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Information Technology Equipment – Safety – General requirements Information Technology Equipment – Safety – General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Systems Medical Electrical Equipment - Part 1: General Requirements For Safety 2: Collateral Systems Audio, Video and Similar Electronic Apparatus – Safety Audio, Video and Similar Electronic Apparatus – Safety
EC 60065 1998, 2000 Audio, video and similar electronic apparatus – Safety requirements  Audio, video and musical instrument apparatus for Household, commercial and similar general use Australiam/New Zealand SxNZS 60065-200 Standard – Approval and test Specification – Mains operated electronic and related Equipment for household and similar general use Canadian C22.2 No. 1-94 (1-98) Audio, video and Similar Electronic Apparatus – Safety Requirements  EN 60065: 2002 Audio, Video and Similar Electronic Apparatus – Safety Requirements  EN 60065: 2002 EN 60065: 2002 Safety requirements  EN 6004-1: 1998 Safety of Machinery – Electrical Equipment of Machines – Part 1: Specification for General Requirements  Compliance Test Specification – Safety and Electrical Protection Requirements for Subscriber Equipment  Consumer and commercial products EN 60065: 2002 EN 60204-1: 1998 Safety requirements  Compliance Test Specification – Safety and Electrical Protection Requirements for Subscriber Equipment  Connected to the Public Telecommunications Networks In Hong Kong  EC 60825: 1990 Raidianton safety of laser products, equipment Classification, requirements and user's guide	ieneral test methods:  "Ower inputs", Permanence of markings", Acces- neasurements", SELV circuitss", TNV limitss*, imitations", Ring signals", Humidity conditioni TIDs, Limited power measurements*, Ground lyplied forces*, Steel sphere impacts*, Mold stromponent abnormals*, Electric strengths*, Implames*, Needle flames*, Hot flaming oils*, Lock forques*, Insulation resistances*, Sound levels*, Iransformer shorts/overloads*, Rain tests*, Wa 'unctionalitys*, Protective impedance abnorma upply abnormals*, Cooling abnormals*, Heating Product Safety Standards J. 60950 2000 EE 60950 1999 EE 60950 1999 EE 60950 1999 EE 60950-1 2001 J. 60950-1 2001 SSA C22.2 No. 60950-00 SSA C22.2 No. 60950-103 EE 61010-1 1993 EE 61010-1 1993, 2001 EE 611010-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) EE 66601-1 1995 EE 66601-1 1995 EE 66601-1 1995 (Including AM 2)	Limited current*, Capacitor Discharge / voltage  g*, Creepage / Clearance / Distance thut Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm  ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1#; Capacitor short circuit abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment   Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements.  Medical electrical equipment. Part 1: General requirements for safety.  Medical electrical equipment.	IBC 60825-1 2001 IBC 60825-2 2000-5 IBC 60825-2 2000-5 IBC 60825-2 2000-5 IBC 60825-2 1997-11 21 CFR 1040.10 IBC 60335-1 1995 Choluding AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001  AS/NZS 60950: 1: 2003 UL 61010 -1: 2004 UL 60601-1: 2003 IBC 60601-1-1: 2000 EN 60601-1-1: 2001	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part 1: General Requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety - Section 1-1, Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements
requirements  NSI/IL 6500: 1998 Audio/video and musical instrument apparatus for Household, CAN/CSA 60065-00 commercial and similar general use Australiam/New Zealand SixNZS 60065-00 Standard – Approval and test Specification – Mains operated electronic and related Equipment for household and similar general use electronic end related Equipment for household and similar general use anadian C22.2 No. 1-94 (1-98) Audio, video and similar electronic equipment.  Consumer and commercial products NG 60065 1994 Safety requirements for main operated electronic and related apparatus for household and similar general use.  Radiation safety of laser products, equipment Connected to the Public Telecommunications Networks In Hong Kong  Requirements  EN 60065: 2002 Audio, Video and Similar Electronic Apparatus – Safety of Machinery – Electrical Equipment of Machines – Part 1: Specification for General Requirements for Subscriber Equipment Compliance Test Specification – Safety and Electrical Protection Requirements for Subscriber Equipment Connected to the Public Telecommunications Networks In Hong Kong  EC 60825 1990 Radiation safety of laser products, equipment Classification, requirements and user's guide	ieneral test methods:  "Ower inputs", Permanence of markings", Acces- neasurements", SELV circuitss", TNV limitss*, imitations", Ring signals", Humidity conditioni TIDs, Limited power measurements*, Ground lyplied forces*, Steel sphere impacts*, Mold stromponent abnormals*, Electric strengths*, Implames*, Needle flames*, Hot flaming oils*, Lock forques*, Insulation resistances*, Sound levels*, Iransformer shorts/overloads*, Rain tests*, Wa 'unctionalitys*, Protective impedance abnorma upply abnormals*, Cooling abnormals*, Heating Product Safety Standards J. 60950 2000 EE 60950 1999 EE 60950 1999 EE 60950 1999 EE 60950-1 2001 J. 60950-1 2001 SSA C22.2 No. 60950-00 SSA C22.2 No. 60950-10 SEC 61010-1 1993 EE 61010-1 1993 EE 61010-1 1993, 2001 EE 61010-1 1993 EE 61010-1 1993 CAN/CSA 1010-1 1999 (Including AM 2) EE 66601-1 1995 EE 60601-1 1995 (Including AM 2)	Limited current*, Capacitor Discharge / voltage  ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11*, Capacitor short circuit abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.  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ANSI/UL 6500: 1998 Audio/video and musical instrument apparatus for Household, commercial and similar general use Australian/Nev Zealand Sk/NZS 60065-00 Standard – Approval and test Specification – Mains operated electronic and related Equipment for household and similar general use and in operated electronic equipment. Canadian C22.2 No. 1-94 (1-98) Audio, video and similar electronic equipment. Consumer and commercial products No 60065 1994 Canadian C25.2 No. 1-94 (1-98) Audio, video and similar electronic Apparatus – Safety Requirements Sometiments of Machines – Part 1: Specification for General Requirements Compliance Test Specification – Safety and Electrical Protection Requirements for Subscriber Equipment Connected to the Public Telecommunications Networks In Hong Kong Canadian C22.2 No. 1-94 (1-98) Audio, video and Similar Electronic Apparatus – Safety Requirements of Machines – Part 1: Specification for General Requirements Compliance Test Specification – Safety and Electrical Protection Requirements for Subscriber Equipment Connected to the Public Telecommunications Networks In Hong Kong Canadian C22.2 No. 1-94 (1-98) Audio, video and Similar Electronic Apparatus – Safety Canadian C22.2 No. 1-94 (1-98)  EN 60065: 2002 Audio, Video and Similar Electronic Apparatus – Safety Requirements Safety of Machinery – Electrical Equipment of Machines – Part 1: Specification for General Requirements Compliance Test Specification For Subscriber Equipment Compliance Test Specification For Subscriber Equipment Connected to the Public Telecommunications Networks In Hong Kong  EN 60065: 2002  Audio, Video and Similar Electronic Apparatus – Safety Canadian C22.2 No. 1-94 (1-98)  EN 60065: 2002  Audio, Video and Similar Electronic Apparatus – Safety Canadian C22.2 No. 1-94 (1-98)  EN 60065: 2002  Audio, Video and Similar Electronic Apparatus – Safety Canadian C22.2 No. 1-94 (1-98)  EN 60065: 2002  Audio, Video and Similar Electronic Apparatus – Safety Canadian C22.2 No. 1-94 (1-98)  EN 60065: 2002  Audio, Video and Simil	General test methods:  "Owever inputs", Permanence of marking", Access neasurement", SELV circuits", TNV limits", imitation", Ring signal", Humidity conditioni TIT)", Limited power measurement", Ground Applied force", Steel sphere impact", Mold str Component abnormal", Electric strength", Imp Jame "Needle flame", Hot flaming oil", Lock Forque", Insulation resistance", Sound levels', Fransformer shorts/overloads", Rain test", Wa 'unctionality", Protective impedance abnorma upply abnormal", Cooling abnormal", Heatin, Product Safety Standards  Product Safety Standards  Jacobs 2000 EC 60950 2000 EC 60950 1999 EC 60950 1999 EC 60950-1 2001 EC 60950-1 2001 EC 60950-1 2001 EC 60950-1 2003 ESA C222 No. 60950-00 ESA C222 No. 60950-10 EC 61010-1 1993 EN 61010-1 1993, 2001 EC 61010-1 2003 EC 61010-1 2003 EC 61010-1 2003 EC 60601-1 1995 (Including AM 2) EC 60601-1 1995 (Including AM 2) EC 60601-1 1995 (Including AM 2) EC 601-1 1997	Limited current*, Capacitor Discharge / voltage  ng*, Creepage / Clearance / Distance thun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, puble*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm  ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1th*, Capacitor short circuit abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  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Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements
AN/CSA 60065-00 commercial and similar general use Australian/New Zealand AS/NZS 60065 2000 Standard – Approval and test Specification – Mains operated electronic and related Equipment for household and similar general use general use Audio, video and similar electronic equipment.  Canadian C22.2 No. 1-94 (1-98) Audio, video and similar electronic equipment.  Consumer and commercial products  No 60065 1994 Safety requirements for main operated electronic and related apparatus for household and similar general use.  Radiation safety of laser products, equipment  Classification, requirements and user's guide  Requirements  Safety of Machinery – Electrical Equipment of Machines – Part 1: Specification – Safety and Electrical Protection Requirements for Subscriber Equipment Connected to the Public Telecommunications Networks In Hong Kong  Reduirements  EN 60204 -1: 1998 Safety of Machinery – Electrical Equipment of Machines – Part 1: Specification or General Requirements  Compliance Test Specification – Safety and Electrical Protection Requirements for Subscriber Equipment of Machines – Part 1: Specification for General Requirements  Compliance Test Specification or Safety and Electrical Protection Requirements for Subscriber Equipment of Machines – Part 1: Specification for General Requirements  Compliance Test Specification or Safety and Electrical Protection Requirements for Subscriber Equipment of Machines – Part 1: Specification for General Requirements  Compliance Test Specification or Safety and Electrical Protection for General Requirements  Compliance Test Specification for General Requirements  Compliance Test Specification or Safety and Electrical Protection Requirements  Conscient Safety and Electrical Protection and Protection Requirements  Conscient Safety and Electrical Protection and Protection Requirements  Conscient Safety and Electrical Protection for General Requirements  Compliance Test Specification or Compliance Test Specification or Compliance Test Specification or Compliance Test Specificat	General test methods:  "Owever inputs", Permanence of markings", Access neasurements", SELV circuitss", TNV limitss*, imitations", Ring signals", Humidity conditioni TIThs, "Limited power measurements", Ground Applied forces", Steel sphere impacts*, Mold str. Component abnormals*, Electric strengths*, Implames*, Needle flames*, Hot flaming oils*, Lock Grques*, Insulation resistances*, Sound levels*, Iransformer shorts/overloads*, Rain tests*, Wa 'unctionalitys*, Protective impedance abnorma upply abnormals*, Cooling abnormals*, Heating 'Product Safety Standards JL 60950 2000 EC 60950 1999 SN 60950 2000 EC 60950-1 2001 JL 60950-1 2001 JL 60950-1 2003 SSA C22.2 No. 60950-00 SSA C22.2 No. 60950-10 3 EC 61010-1 1993 EN 61010-1 1993, 2001 EC 61010-1 1993 EN 61010-1 1999 (Including AM 2) EC 66001-1 1995 EC 60601-1 1995 EN 60601-1 1995 (Including AM 2)	Limited current*, Capacitor Discharge / voltage  ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11*, Capacitor short circuit abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements.  Medical electrical equipment. 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San	General test methods:  "Owever inputs", Permanence of marking", Access neasurement", SELV circuits", TNV limits", imitation", Ring signal", Humidity conditioni TIT)*, Limited power measurement", Ground Applied force", Steel sphere impact", Mold st Component abnormal*, Electric strength*, Imp Jame "Needle flame", Hot flaming oil*, Lock forque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatin, Product Safety Standards J. 60950 2000 EC 60950 12001 EC 61010-1 1993 EN 61010-1 1993, 2001 EC 61010-1 2001 J.L 61010B-1 2003 ZAN/CSA 1010-1 1999 (Including AM 2) EC 60061-1 1995 (Including AM 2) EC 60061-1 1995 (Including AM 2) LC 60061 1998, 2000	Limited current*, Capacitor Discharge / voltage  ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, puble*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11th, Capacitor Short circuit abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements Medical electrical equipment. Part 1: General requirements for safety, Medical electrical equipment. Part 1: General Requirements for safety, Audio, video and similar electronic apparatus – Safety requirements	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 1997-11 21 CFR 1040.10 IEC 60335-1 1995 IEC 60335-1 1995 IEC 60335-1 1998 IEC 60335-1 2001 IEC 60335-1 1998 IEC 60935-1 2001 IEC 60335-1 1994 IEC 6010-1: 2002 IEC 61010-1: 2001 IEC 60950-1: 2001 IEC 60950-1: 2003 IEC 60601-1-1: 2004 IEC 60601-1-1: 2000 IEC 60601-1-1: 2001 IEC 60605: 2003 IEC 60065: 2003 IEC 60065: 2003 IEC 60065: 2003 IEC 60065: 2001	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment + Part 1: General Requirements For Safety Medical Electrical Equipment + Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety – Section 1-1. Collateral Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements
electronic and related Equipment for household and similar general use Canadian C22.2 No. 1-94 (1-98) Audio, video and similar electronic equipment. Consumer and commercial products Con6065 1994 Capparatus for household and similar general use. Radiation safety of laser products, equipment Consumer and commercial products Confocted to the Public Telecommunications Networks In Hong Kong Capparatus for household and similar general use. Radiation safety of laser products, equipment Classification, - Safety requirements for Subscriber Equipment Connected to the Public Telecommunications Networks In Hong Kong Classification, - Requirements for Subscriber Equipment Connected to the Public Telecommunications Networks In Hong Kong Classification, - Safety and Electrical Protection Requirements for Subscriber Equipment Connected to the Public Telecommunications Networks In Hong Kong Connected to the Public Telecommunications Networks Consecuted to the Public Telecommunications Ne	General test methods:  "Ower inputh," Permanence of marking", Accessessurement", SELV circuits", TNV limits*, imitation", Ring signal", Humidity conditioni CTID", Limited power measurement", Ground Applied force*, Steel sphere impact", Mold stromponent abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Lock forque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa*unctionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatin, Product Safety Standards  "Decount Safety Standa	Limited current*, Capacitor Discharge / voltage  ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11*, Capacitor short circuit abnormal*, Multi- gd evice abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements Medical electrical equipment Medical electr	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 1997-11 21 CFR 1040.10 IEC 60335-1 1995 IEC 60335-1 1995 IEC 60335-1 1998 IEC 60335-1 2001 IEC 60335-1 1998 IEC 60935-1 2001 IEC 60335-1 1994 IEC 6010-1: 2002 IEC 61010-1: 2001 IEC 60950-1: 2001 IEC 60950-1: 2003 IEC 60601-1-1: 2004 IEC 60601-1-1: 2000 IEC 60601-1-1: 2001 IEC 60605: 2003 IEC 60065: 2003 IEC 60065: 2003 IEC 60065: 2003 IEC 60065: 2001	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part 1: General Requirements Information Technology Equipment – Safety – General requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use: Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements For Medical Electrical Standard: Safety Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Electri
anadian C22.2 No. 1-94 (1-98) Audio, video and similar electronic equipment.  One Sumer and commercial products  One Sumer and commercial products  One Sumer and commercial products  Safety requirements for main operated electronic and related apparatus for household and similar general use.  EC 60825 1990 Radiation safety of laser products, equipment  Classification, requirements and user's guide	General test methods:  "Owever inputs", Permanence of marking", Access neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity conditioni TITI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imp Jame*, Needle flame*, Hot flaming oil*, Lock forque*, Insulation resistance*, Sound level*, Fransformer shorts/overloads*, Rain test*, Wa *cunctionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatin, Product Safety Standards JL 60950 2000 EC 60950 1200 EC 60050 1200 EC 60050 1200 EC 60050 1200 EC 60060 11993 EN 61010-1 1993, 2001 EC 61010-1 1993 EC 61010-1 1995 EC 60061 1 1995 (Including AM 2) EC 60061 1 1995 (Including AM 2) EC 60065 1998, 2000  ANNI/UL 6500: 1998 EANI/CSA 60065-00	Limited current*, Capacitor Discharge / voltage  ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*,  ress*, Battery reverse current*, Ball pressure*, Leakage current*,  pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm  ced rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*,  Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*,  all mount*, Laser radiation (excluding x-ray)*, Voltage surge*,  1th, Capacitor Short circuit abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment  Safety of information technology equipment  Safety of information technology equipment  Safety of information technology equipment, including  Electrical business equipment.  Safety requirements for electrical equipment for measurement,  control and laboratory use, Part 1: General requirements.  Safety requirements for electrical equipment for measurement,  control and laboratory use, Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements  Medical electrical equipment. Part 1: General requirements for safety.  Medical electrical equipment. Part 1: General Requirements for safety:  Audio, video and similar electronic apparatus – Safety requirements  Audio/video and similar electronic apparatus for Household,  commercial and similar general use Australian/New Zealand	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 IEC 60335-1 1995 IEC 60335-1 1995 IEC 60335-1 1998 IEC 60335-1 1998 IEC 60335-1 1999 IEC 60335-1 1999 IEC 60335-1 1999 IEC 6010-1: 2001 IEC 6035-1: 2001 IEC 60601-1-1: 2004 IEC 60601-1-1: 2000 IEC 60601-1-1: 2001 IEC 60605: 2003 IEC 60665: 2003 IEC 60665: 2001 IEC 60605-2002	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety 1: Collateral Standard: Safety Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements
Canadian C22.2 No. 1-94 (1-98)   Audio, video and similar electronic equipment.   Protection Requirements for Subscriber Equipment	General test methods:  "Owever inputs", Permanence of marking", Access neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity conditioni TITI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imp Jame*, Needle flame*, Hot flaming oil*, Lock forque*, Insulation resistance*, Sound level*, Fransformer shorts/overloads*, Rain test*, Wa *cunctionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatin, Product Safety Standards JL 60950 2000 EC 60950 1200 EC 60050 1200 EC 60050 1200 EC 60050 1200 EC 60060 11993 EN 61010-1 1993, 2001 EC 61010-1 1993 EC 61010-1 1995 EC 60061 1 1995 (Including AM 2) EC 60061 1 1995 (Including AM 2) EC 60065 1998, 2000  ANNI/UL 6500: 1998 EANI/CSA 60065-00	Limited current*, Capacitor Discharge / voltage  g*, Creepage / Clearance / Distance thu Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, reses*, Battery reverse current*, Ball pressure*, Leakage current*, Publes*, Overvoltage*, Acoustic sound pressure*, Leakage current*, Publes*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11 mount*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements.  Medical electrical equipment Medical electrical equipme	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 IEC 60335-1 1995 IEC 60335-1 1995 IEC 60335-1 1998 IEC 60335-1 1998 IEC 60335-1 1999 IEC 60335-1 1999 IEC 60335-1 1999 IEC 6010-1: 2001 IEC 6035-1: 2001 IEC 60601-1-1: 2004 IEC 60601-1-1: 2000 IEC 60601-1-1: 2001 IEC 60605: 2003 IEC 60665: 2003 IEC 60665: 2001 IEC 60605-2002	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety equirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements for Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements for Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus – Safety Requirements Audio, Video and Similar Electronic Apparatus – Safety Requirements Audio, Video and Similar Electronic Apparatus – Safety Requirements Safety of Machinery – Electrical Equipment of Machines Safety of Machinery – Electrical Equipment of Machines
994, 1998 Consumer and commercial products Connected to the Public Telecommunications Networks 2N 60065 1994 Safety requirements for main operated electronic and related apparatus for household and similar general use.  EC 60825 1990 Radiation safety of laser products, equipment Classification, requirements and user's guide	General test methods:  "Owever inputs", Permanence of marking", Access neasurement", SELV circuits", TNV limits", imitation", Ring signal", Humidity conditioni TIT)*, Limited power measurement", Ground Applied force", Steel sphere impact", Mold st Component abnormal*, Electric strength*, Imp Jame "Needle flame", Hot flaming oil*, Lock forque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatin, Product Safety Standards J. 60950 2000 EC 60950 12001 EC 61010-1 1993 EN 61010-1 1993, 2001 EC 61010-1 2001 J.L 61010B-1 2003 ZAN/CSA 1010-1 1999 (Including AM 2) EC 60061-1 1995 (Including AM 2) EC 60061-1 1995 (Including AM 2) LC 60061 1998, 2000	Limited current*, Capacitor Discharge / voltage  ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, esses*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ced rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11*, Capacitor short circuit abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements Medical electrical equipment. Part 1: General requirements for safety.  Medical electrical equipment Medical electrical equipment Medical electrical equipment Medical electrical equipment Audio, video and similar electronic apparatus — Safety requirements Audio, video and similar electronic apparatus For Household, commercial and similar general use Australian/New Zealand Standard — Approval and test Specification — Mains operated electronic and related Equipment for loavehold and similar	IBC: 60825-1 2001 IBC: 60825-2 2000-5 IBC: 60825-2 2000-5 IBC: 60825-4 1997-11 21 CFR: 1040.10 IBC: 60335-1 1995 EN: 60335-1 1997 & AM 12 – 1997) EN: 60335-1 2001 UL: 60335-1 1998 CAN:CSA: E335-1 1994 UL: 61010A-1: 2002 EN: 61010-1: 2001  AS:NZS: 60950: 2000 EN: 60950-1: 2001 AS:NZS: 60950: 2000 EN: 60950-1: 2003 UL: 61010-1: 2004 UL: 60601-1-1: 2000 EN: 60601-1-1: 2000  UL: 60605: 2003 IBC: 60605: 2003 IBC: 60065: 2003 IBC: 60065: 2002 EN: 60065: 2002 EN: 60204-1: 1998	Classification, requirements and user's guide. 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Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Safety of Machinery - Electrical Equipment of Machines - Part 1: Specification for General Requirements
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apparatus for household and similar general use.  EC 60825 1990 Radiation safety of laser products, equipment Classification, requirements and user's guide	General test methods:  "Owever inputs", Permanence of marking", Access neasurement", SELV circuits", TNV limits", imitation". Ring signal", Humidity conditioni TID", Limited power measurement", Ground Applied force", Steel sphere impact", Mold st Component abnormal", Electric strength", Imp Jame ", Needle flame", Hot flaming oil", Lock forque", Insulation resistance", Sound levels, Fransformer shorts/overloads", Rain test", Wa "unctionality", Protective impedance abnorma Jupply abnormal", Cooling abnormal", Heatin, Product Safety Standards JL 60950 2000 EG 60950-1 2001 JL 60950-1 2003 ESA C22.2 No. 60950-00 ESA C22.2 No. 60950-1 03 EC 61010-1 1993 EN 61010-1 1993, 2001 EC 61010-1 1993, 2001 EC 61010-1 1995 EM 60601-1 1995 (Including AM 2) JL 2601-1 1995 EN 60601-1 1995 (Including AM 2) JL 2601-1 1997 EC 60065 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00 ANSI/UL 6500: 1998 CAN/CSA 60065-00 ANSI/UL 6500: 1998 CAN/CSA 60065-00 ASN/ZS 60065 2000 Canadian C22.2 No. 1-94 (1-98)	Limited current*, Capacitor Discharge / voltage  ng*, Creepage / Clearance / Distance thun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, I.30mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11*, Capacitor short circuit abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements.  Medical electrical equipment. Part 1: General requirements for safety, Medical electrical equipment. Part 1: General requirements for safety. Audio, video and similar electronic apparatus for Household, commercial and similar general use Australian/New Zealand Standard — Approval and test Specification — Mains operated electronic and related Equipment for equipment.	IBC: 60825-1 2001 IBC: 60825-2 2000-5 IBC: 60825-2 2000-5 IBC: 60825-4 1997-11 21 CFR: 1040.10 IBC: 60335-1 1995 EN: 60335-1 1997 & AM 12 – 1997) EN: 60335-1 2001 UL: 60335-1 1998 CAN:CSA: E335-1 1994 UL: 61010A-1: 2002 EN: 61010-1: 2001  AS:NZS: 60950: 2000 EN: 60950-1: 2001 AS:NZS: 60950: 2000 EN: 60950-1: 2003 UL: 61010-1: 2004 UL: 60601-1-1: 2000 EN: 60601-1-1: 2000  UL: 60605: 2003 IBC: 60605: 2003 IBC: 60065: 2003 IBC: 60065: 2002 EN: 60065: 2002 EN: 60204-1: 1998	Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology Equipment - Safety - Part1: General requirements Safety information technology Equipment - Safety - Part1: General requirements Information Technology Equipment - Safety - General Requirements Information Technology Equipment - Safety - General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety 1: Collateral Standard: Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Safety of Machinery - Electrical Equipment of Machines - Part 1: Specification for General Requirements Compliance Test Specification - Safety and Electrical Compliance Test Specification - Safety and Electrical
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(A2LA Cert. No. 1627.01) 3/27/06 Page 8 of 10 (A2LA Cert. No. 1627.01) 3/27/06 Page 8 of 10	General test methods:  "Owever inputs", Permanence of marking", Access neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity conditioni TITI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imp Jame*, Needle flame*, Hot flaming oil*, Lock forque*, Insulation resistance*, Sound level*, Iransformer shorts/overloads*, Rain test*, Wa *crunctionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatin, *Product Safety Standards JL 60950 2000 EC 60950 1909 EN 60950 2000 EC 60950 1001 EC 60950 1001 EC 60950 1001 EC 60950 1003 EC 60950 1003 EC 60950 1001 EC 60050 1003 EC 61010-1 1993 EN 61010-1 1993, 2001 EC 61010-1 1993 EN 61010-1 1993, 2001 EC 61010-1 1995 EN 60601-1 1995 (Including AM 2) LL 2601-1 1997 EC 60065 1998, 2000  ANSI/UL 6500: 1998 EANCSA 60065-00 AS/NZS 60065-00  Canadian C22.2 No. 1-94 (1-98) 1994, 1998 EN 60005 1994	Limited current*, Capacitor Discharge / voltage  ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ced rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11*, Capacitor short circuit abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements.  Medical electrical equipment. Part 1: General requirements for safety.  Audio, video and similar electronic apparatus — Safety requirements  Audio/video and musical instrument apparatus for Household, commercial and similar general use Australian/New Zealand Standard — Approval and test Specification — Mains operated electronic and related Equipment for household and similar general use  Audio, video and similar general use (audion) and related apparatus for household and similar general use.  Radiation safety of laser products, equipment Classification, requirements and user's guide	IBC: 60825-1 2001 IBC: 60825-2 2000-5 IBC: 60825-2 2000-5 IBC: 60825-4 1997-11 21 CFR: 1040.10 IBC: 60335-1 1995 EN: 60335-1 1997 & AM 12 – 1997) EN: 60335-1 2001 UL: 60335-1 1998 CAN:CSA: E335-1 1994 UL: 61010A-1: 2002 EN: 61010-1: 2001  AS:NZS: 60950: 2000 EN: 60950-1: 2001 AS:NZS: 60950: 2000 EN: 60950-1: 2003 UL: 61010-1: 2004 UL: 60601-1-1: 2000 EN: 60601-1-1: 2000  UL: 60605: 2003 IBC: 60605: 2003 IBC: 60065: 2003 IBC: 60065: 2002 EN: 60065: 2002 EN: 60204-1: 1998	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment — Safety — Part1: General requirements Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety — Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Safety of Machinery — Electrical Equipment of Machines — Part 1: Specification for General Requirements Compliance Test Specification — Safety and Electrical Protection Requirements for Subscriber Equipment

			Note 1. For standards or methods listed on the scope of accorditation without a service of the lab	oratorias s
Test Technology Accessibility*	Test Standard IEC 60529	Supporting Standards IP-0x thru IP-6x	Note 1. For standards or methods listed on the scope of accreditation without a revision date, lab expected to be competent in the use of the current version within one year of the date of publicat	tion of the
Accessionity* Acoustic Noise*	GR-63-CORE Sec 4.6	IP-0x thru IP-6x	standard test method or upon the date specified by the standard test method originator when the	originator has
Airborne Contaminants	GR-63-CORE Sec 4.5	MFG & Hygroscopic Dust	implementation authority. When a superseded standard or method is required for an accredited to	est, the scope
Altitude	GR-63-CORE Sec 4.1.3	ini o a riygroscopie basi	will include the superseded date/version. For those that support the TCB/CB status of the organization	zation acting
Cold Start*	ETS 300 019	IEC 60068-2-1	as a certifier on behalf of the FCC or IC the expectation is currency within 30 days of Federal Re	egister
Drip	IEC 60529	IP-x1 & IP-x2	publication of changes for FCC and 30 days after IC website update. This note shall not be cons	strued as an
Drops*	ETS 300 019	IEC 60068-2-32	Accreditation Body implication to adopt a more current standard than is required in a regulation	
	GR-63-CORE Sec 4.3		the legal requirement) which is adopted by the lab under their responsibility.	or code (i.e.
Dust	IEC 60529	IP-5x & IP-6x	the legal requirement) which is adopted by the lab under their responsibility.	
Firearms Resistance Testing	GR-487		*0	
Fire Resistance	ANSI.T1.319		* On-site test service is available for this technology, test, or method.	
	GR-63-CORE Sec 4.2	Fire & Needle Flame		
Heat Dissipation*	GR-63-CORE Sec 4.1.4			
Illumination	GR-63-CORE Sec 4.7			
Operational Temperature &				
Humidity (OpTH)*	ETS 300 019	IEC 60068-2-1		
		IEC 60068-2-2		
		IEC 60068-2-14		
	CD 62 CODE C. 412	IEC 60068-2-56		
Salt Fog & Spray	GR-63-CORE Sec 4.1.2 ASTM B117			
	GR-63-CORE Sec 2.0 & 3.0			
Spatial* Spraying-Splashing	IEC 60529	IP-x3 & IP-x4		
Storage (Temperature & Humidity)*	ETS 300 019	IF-X3 & IF-X4 IEC 60068-2-1		
Storage (Temperature & Humidity)	E13 300 019	IEC 60068-2-1 IEC 60068-2-2		
		IEC 60068-2-2 IEC 60068-2-14		
		IEC 60068-2-14		
		IEC 60068-2-56		
	GR-63-CORE Sec 4.1.1	IEC 00000 2 30		
Vibration	ETS 300 019	IEC 60068-2-6		
		IEC 60068-2-27		
		IEC 60068-2-29		
		IEC 60068-2-32		
		IEC 60068-2-57		
		IEC 60068-2-64		
		Earthquake, Office &		
	GR-63-CORE Sec 4.4	Transportation		
Water Immersion	IEC 60529	IP-x7 & IP-x8		
Water Jet	IEC 60529	IP-x5 & IP-x6		
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