## Test Report



Report No EJ1020-1

Client Vectron International, Inc.

Address 267 Lowell Road Hudson, NH 03051

Phone 603-577-6860

FCC ID X3ITEMPTRACKR

IC ID IC:8085B-TEMPTRACKR

FRN 0019452366

Equipment Type Remote Security/Control Device Transceiver

Equipment Code DSR

FCC Rule Parts 47 CFR 15.231(e), RSS 210 issue 7 and RSS GEN issue 2

Test Dates January 6-28, 2010

Results As detailed within this report

Prepared by

Matthew Burman – Test Engineer

Authorized by

Mairaj Hussain - EMC Supervisor

Issue Date

March 3, 2010

Conditions of Issue

This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 21 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.

Testing Cert. No. 1627-01

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Form Final Report REV 7-20-07 (DW)

### Summary

This test report supports an application for certification of a transmitter operating pursuant to 47 CFR 15.231(e) and RSS-210. The product is the TempTrackr. It is a transmitter that operates in the range 428-439MHz. The power setting was modified throughout the frequency range to meet compliance; the levels are detailed in the fundamental field strength section. The product is USB powered through a personal computer.

We found that the product met the above requirements with modification (see Comments in Statement of Conformity section on page 5). Sabah Sabah from Vectron International, Inc. was present during the testing. The test sample was received in good condition.

A test report for the digital circuitry has been issued under the report EJ1020-3.

Release Control Record Issue No. Reason for change

Original Release

Date Issued January 25, 2011



### Test Methodology

Radiated emission and AC Line conducted testing was performed according to the procedures specified in ANSI C63.4 (2003) and RSS-GEN. Radiated Emissions were maximized by rotating the device around three orthogonal axes as well as varying the test antenna's height and polarity. The device antenna was maximized separately.

The following bandwidths were used during radiated spurious and line conducted emissions.

Frequency	RBW	VBW
0.15-30MHz	9kHz	30kHz
30-1000MHz	120kHz	1MHz
1-25GHz	1MHz	3MHz

Release Control Record Issue No. Reason for change

Original Release

Date Issued January 25, 2011



## Product Tested - Configuration Documentation

Performance Criteria:

EUT shall continue to monitor temperature.

Work Orde										
	y: SenGenuity									
Company Address	Hudson, NH									
Contac	t: Sabah Saba									
		MN			PN			SN		
EU <sup>-</sup>	Γ:	TempTrackr						000159		
EUT Description	n: Temp Tracke	er .								
EUT Tx Frequency										
Support Equipment:		MN						SN		
Dell Monitor		E550					MY-077	53T-46632-0	035-2022	
Dell PC		DHM						3FHR011		
Microsoft Mouse		98952						00133885		
Dell Keyboard		SK-8100					MY-09C	487-38843-1	19K-2884	
EUT Ports:										
			No.					Max	In/Out	
Port Label	Port Type	No. of ports	Populated	Cable Type	Shielded	Ferrites	Length	Length	NEBS Type	Unpopulated Rea
Temp Tracker										
Antenna Cables	SMA	3	1	RF cable	Yes	No	2m	2m	indoor	Redundant
4 pin to DB9 USB/CAN	4pin to DB9	1	1	4 wire	no	no	2in	2in	indoor	
USB/CAN USB	USB	1	1	USB	Yes	No	3m	5m	indoor	
DB9	DB9	1	i	DB9	No	No	2in	2in	indoor	
	200	•		220	0					

## Statement of Conformity

The TempTrackr has been found to conform to the following parts of 47 CFR as detailed below:

RSS-GEN	RSS 210	Part 15	Comments
5.3		15.15(b)	There are no controls accessible to the user that varies the output power.
5.2		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	The EUT was tested in accordance with the measurement standards in this section.
		15.33	Frequency range was investigated according to this section, unless noted in specific rule section under which the equipment operates.
		15.35	The EUT emissions were measured using the measurement detector and bandwidth specified in this section, unless noted in specific rule section under which the equipment operates.
7.1.4		15.203	Antenna is attached to port permanently using a rubber heat shrink.
	2.6	15.205 15.209	The fundamental is not in a Restricted band and the spurious and harmonic emissions in the Restricted bands comply with the general emission limits of 15.209.
7.2.2		15.207	EUT meets the AC Line conducted emissions requirements of 15.207.
	Annex 1	15.231(e)	The unit complies with the requirements of 15.231(e); To meet the timing requirements, the coherent acquisitions are set to 7, and sensor interrogation rate is set to 24000ms. Also, reduced transmit power, on 430MHz channels reduced from setting 8 to 5, on mid channels of 433MHz reduced to setting 3, and high channels reduced to setting 1.
4.6.1			Occupied Bandwidth measurements were made.

#### **Test Results**

#### Bandwidth

#### **LIMIT**

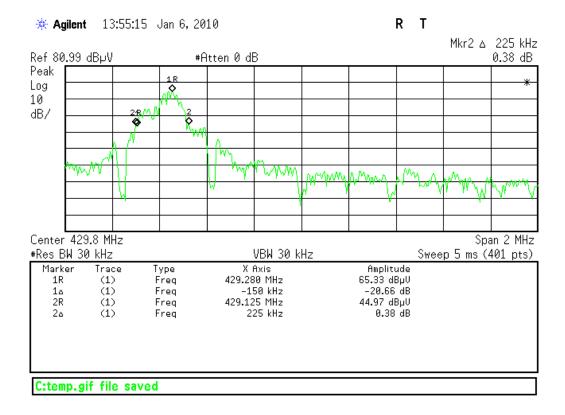
"The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz...Bandwidth is determined at the points 20dB down from the modulated carrier."

[15.231(c)]

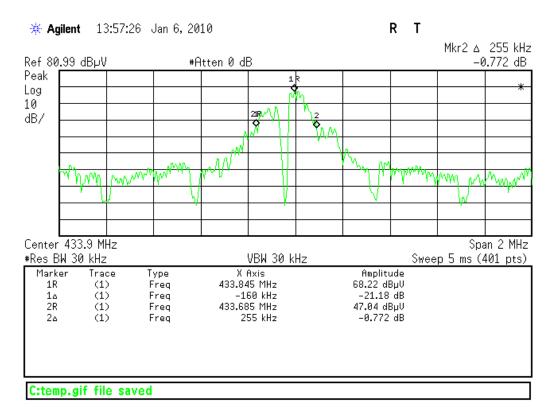
#### **MEASUREMENTS / RESULTS**

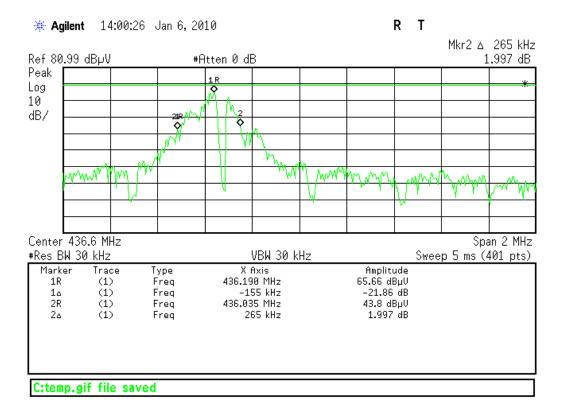
Frequency	20dB BW	Limit	Results
(MHz)	(MHz)	(MHz)	(Pass/Fail)
429.87	0.225	1.074675	Pass
433.84	0.255	1.0846	Pass
436.19	0.265	1.090475	Pass

#### **Plots**



#### **Channel 3**







# Fundamental Field Strength

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emission (microvolts/meter)
260-470	1,500 to 5,000*	150 to 500*

<sup>\*</sup> linear interpolations at 3 meters = 16.6667( Frequency in MHz) -2833.333

Sample Calculation

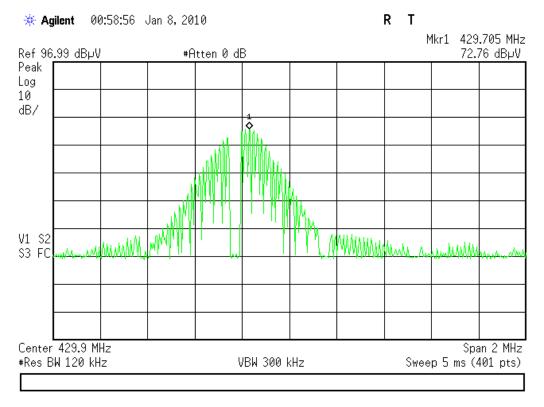
At 3 meters

 $430.046 \times 16.6667 - 2833.333 = 4334.23 \mu V/m = 72.7 dB \mu V/m$  [15.231(e)]

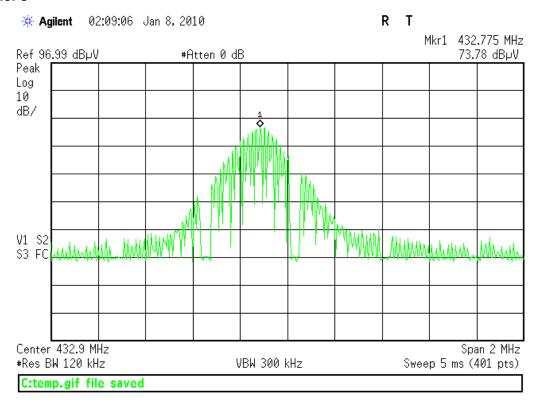
#### **MEASUREMENTS / RESULTS**

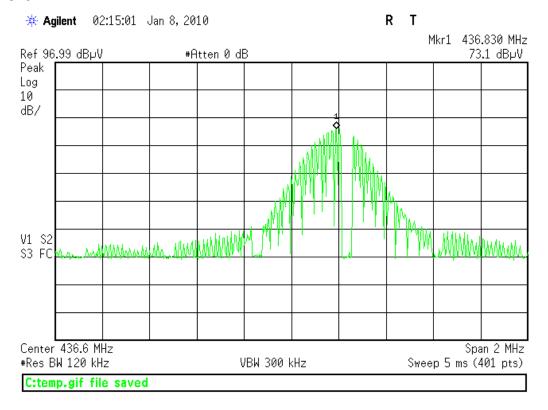
Fundamental F	ield Stre	)										
Date:	07-Jan-10		Company:	Company: SenGenuity						Work Order: J1020		
Engineer:	Matthew Burma	an	<b>EUT Desc:</b>	Temp Trac	ker				EUT Operating Vo	oltage/Frequency:	USB Powered	
Temp:	25.3℃		Humidity:	27%		Pressure:	999mBar					
	Freque	ency Range:	429-436MF	Нz				Mea	surement Distance: 3	m		
Notes:	Field Strength	of Fundamer	ntal R	BW = 120k	Hz				Duty Cycle Correction	Factor = 20*log(10	ms/100ms)	
				VBW = 1M	Hz				Peak Limits = Average	Limits +20dB		
Antenna			Preamp	Antenna	Cable	Duty Cycle	Adjusted			CC Part 15.231.e		
Polarization	Frequency	Reading	Factor	Factor	Factor	Correction Factor	Reading	Limit	Limit	Margin	Result	
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dB)	(dBµV/m)	(μV/m)	(dBµV/m)	(dB)	(Pass/Fail)	
low channel transmit power of +5dB												
h peak	430.045	72.8	0.0	16.9	1.5	0.0	91.2	4334.23	92.7	-1.6	Pass	
h avg	430.045	72.8	0.0	16.9	1.5	20.0	71.2	4334.23	72.7	-1.6	Pass	
mid channel transmit power of +3dB												
h peak	432.52	73.8	0.0	17.0	1.5	0.0	92.3	4375.48	92.8	-0.5	Pass	
h avg	432.52	73.8	0.0	17.0	1.5	20.0	72.3	4375.48	72.8	-0.5	Pass	
high channel transmit power of +1dB												
h peak	436.83	73.1	0.0	17.1	1.5	0.0	91.7	4447.31	93.0	-1.3	Pass	
h avg	436.83	73.1	0.0	17.1	1.5	20.0	71.7	4447.31	73.0	-1.3	Pass	
Tab	le Result:	Pass	by	-0.5	dB				Worst Freq:	432.52	MHz	
	EMI Chamber Asset #1328	1	Cable 1: Preamp:	Asset #150 none	)5			Asset #1507 Red-Black				

#### **PLOTS**



#### **Channel 3**





## **Duty Cycle Correction Calculation**

#### **MEASUREMENTS / CALCULATIONS**

**Duty Cycle Correction Factor = 20 x Log [ 0.01/0.1 seconds]** 

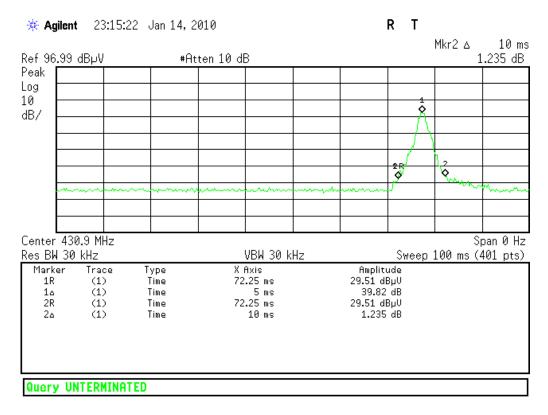
 $DCCF = 20 \times Log(0.1)$ 

DCCF = -20dB

#### A maximum allowable correction factor of 20dB was used

#### **PLOTS**

#### Transmission time for single channel

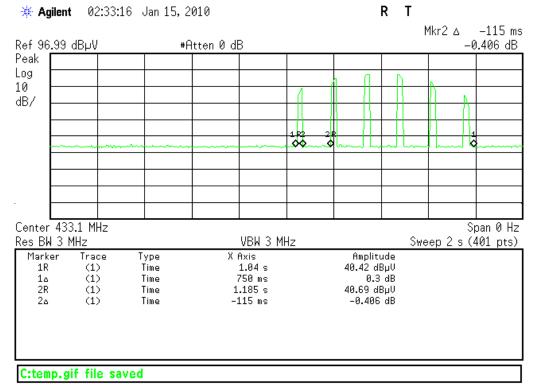


As noted in 15.231(e): "In addition, devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds."

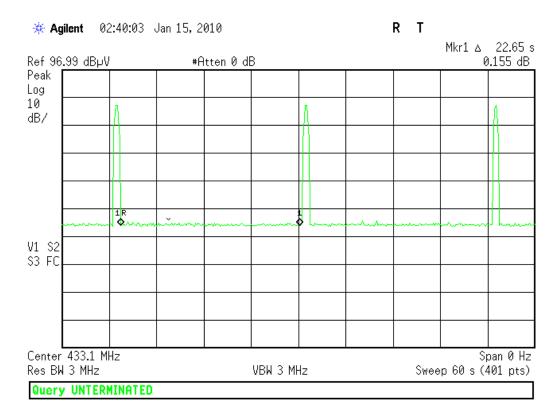
The total time for transmission is 750ms, which is less than 1 second. 30 times the duration is 22500ms, or 22.5 seconds. The total time between transmissions is 22.65 seconds, which meets the requirements in 15.231(e).







#### Silent time



# Radiated Harmonic and Spurious Emissions LIMITS

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emission (microvolts/meter)
260-470	1,500 to 5,000*	150 to 500*

<sup>\*</sup>linear interpolations [15.231(e)]

#### **MEASUREMENTS / RESULTS**

Date:	07-Jan-10		Company:	SenGenuit	/						Work Order:	J1020
Engineer:	Matthew Burm	an	EUT Desc:	Temp Trac	ker					EUT Operating Vo	oltage/Frequency:	usb powered
Temp:	Temp: 25.3 °C Humidity: 27%					Pressure:	999mBar					•
Frequency Range: 30-1000MHz								Measurement Distance: 3 m				
Notes:	Spurious											
	all readings an	e peak, unles	s otherwise	stated								
Antenna			Preamp	Antenna	Cable	Adjusted					FCC Class B	
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)
V	827.45	32.0	20.4	22.3	3.7	37.6				46.0	-8.4	Pass
v	820.2	38.4	20.4	22.1	3.6	43.7				46.0	-2.3	Pass
v	799.9	34.2	20.4	21.9	3.6	39.3				46.0	-6.7	Pass
v	779.6	36.8	20.6	21.7	3.5	41.4				46.0	-4.6	Pass
h	740.4	38.1	20.5	21.0	3.4	42.0				46.0	-4.0	Pass
h	846.3	38.1	20.4	22.2	3.7	43.6				46.0	-2.4	Pass
h	856.4	39.5	20.5	22.3	3.7	45.0				46.0	-1.0	Pass
h	180.025	44.8	21.5	11.4	2.5	37.2				43.5	-6.3	Pass
v - qp	38.5	33.9	21.8	15.6	1.7	29.4				40.0	-10.6	Pass
v	83.98	48.9	21.8	7.9	1.7	36.7				40.0	-3.3	Pass
V	108.2	47.7	21.7	12.3	2.0	40.3				43.5	-3.2	Pass
Tab	le Result:	Pass	by	-1.0	dB					Worst Freg:	856.4	MHz

Spurious	Radiate	d Emiss	sions Ta	ıble										
Date:	14-Jan-10			Company:	SenGenuit	у							Work Order	: J1020
Engineer:	Matthew Burm	ian		EUT Desc:	Temp Trac	cker		EUT Operating Voltage/Frequency: USB Powered					: USB Powered	
Temp:	18.0°C			Humidity:	25%			Pressure:	ressure: 1007mBar					
		Freque	ency Range:	1-5GHz							Meas	surement Distance: 3	m	
Notes:												EUT Tx Freq: 4	33MHz	
Antenna		Peak	Average	Preamp	Antenna	Cable	Adjusted	Adjusted	FCC Cla	ss B High Frequer	ncy - Peak	FCC Class	B High Frequency	/ - Average
Polarization	Frequency	Reading	Reading	Factor	Factor	Factor	Peak Reading	Avg Reading	Limit	Margin	Result	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)
no emissions fou	nd									***				
Tab	le Result:			bv		dB						Worst Frea:		MHz
	ic ricourt.			,										

EUT does not have a dedicated receive mode, the EUT transmits and receives together. The spurious emission data is for both transmit and receive mode.

**Note:** 15.231(b)(3) states "Spurious emissions shall be attenuated to the average...limits shown in this table or the general limits shown in Section 15.209, whichever limits permits a higher field strength." Since emissions meet 15.209 limits, those limits are displayed in the data table to show worst case.

## AC Line Conducted Emissions LIMITS

Frequency of emission (MHz)	Quasi-peak limit (dBµV)	Average limit (dBµV)
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

<sup>\*</sup>Decreases with the logarithm of the frequency.

[47 CFR 15.207(a)]

#### **MEASUREMENTS / RESULTS**

	14-Jan-10				SenGenuity			Work Order: J1020					
•	Matthew Burm	an			Temp Tracker		Test Site: CEMI06						
	18.0 °C AC Side of DC	Sunnly		Humidity:	25%		Pressure: 1007mBa						
	ement Device:		3 LISN			EUT O	perating Voltag	e/Frequency:	120Vac 60Hz				
Range:	0.15-30MHz						Spectr	um Analyzer:	Black				
_					Impedance	FCC/0	FCC/CISPR B		FCC/CISPR B				
	Q.P. Rea	Q.P. Readings		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)			
0.18	21.0	19.7	21.9	20.0	20.1	64.6	-23.6	54.6	-12.6	Pass			
0.20	22.1	13.7	13.7	11.3	20.1	63.6	-21.4	53.6	-19.8	Pass			
			0.4	11.0	20.1	60.2	-26.6	50.2	-19.1	Pass			
0.30	12.3	13.6	9.1	11.0									
	12.3 12.0	13.6 10.5	9.1 10.7	8.6	20.0	56.0	-24.0	46.0	-15.3	Pass			
0.30				-	-	56.0 60.0	-24.0 -28.6	46.0 50.0	-15.3 -32.4	Pass Pass			
0.30 0.54	12.0	10.5	10.7	8.6	20.0		-						

The AC Conducted emissions were measured from a sample computer, which is the normal method of operation since the product is USB powered.

## **Voltage Variations**

#### REQUIREMENT

Measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery powered equipment, the equipment tests shall be performed using a new battery. [15.31(e)]

#### **MEASUREMENTS / RESULTS**

No voltage variations were required since the product is USB powered, since USB design is standardized, voltage provided to the product shall be consistent. The product was tested under normal operation by being powered through a personal computer.

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## Occupied Bandwidth

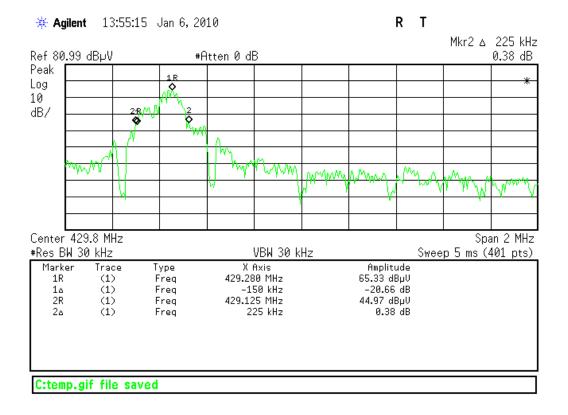
#### **REQUIREMENT**

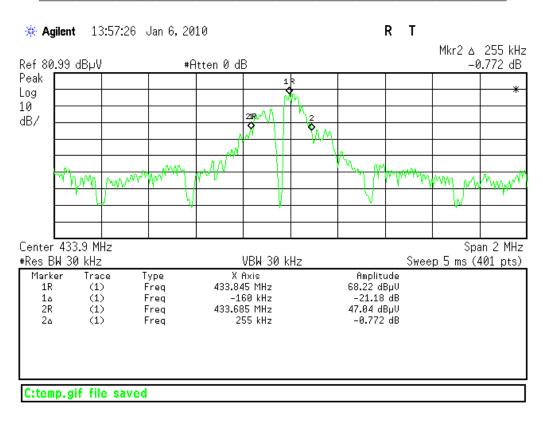
When an occupied bandwidth is no specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured. [RSS-GEN 4.6.1]

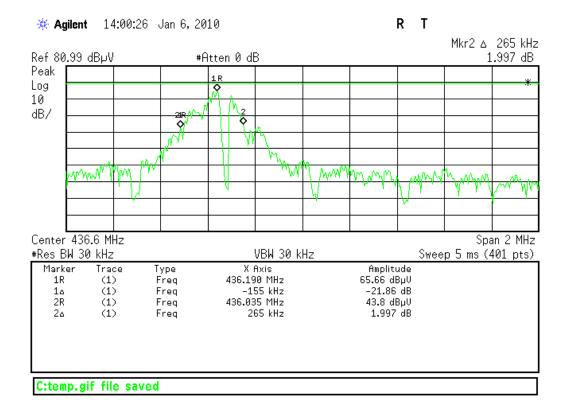
Frequency	Occupied Bandwidth
(MHz)	(MHz)
429.87	0.225
433.84	0.255
436.19	0.265

#### **Plots**

#### **Channel 1**







## Test Equipment Used

Rev: 28-Jan-2010							
Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	<b>Calibration Due</b>
SA EMI Chamber (1328)	9kHz-13.2 GHz	E4405B	Agilent	MY44210241	1328	- 1	16-Dec-2010
Rental SA #5	9kHz-26.5 GHz	E4407B	Agilent	MY44220066	1491	- 1	2-Feb-2010
Radiated Emissions Sites	FCC Code	IC Code	VCCI Code			Cat	Calibration Due
1DCC-OATS-3M-I	719150	2762A-8	R-3109			Ш	7-Jul-2011
EMI Chamber 1	719150	2762A-6	R-3032, G-106			- 1	15-Feb-2011
Preamps /Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Red	0.009-2000MHz	ZFL-1000-LN	CS	N/A	798	Ш	7-Apr-2010
Brown	1-18GHz	CS	CS	N/A	1523	II	17-Jul-2010
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Yellow Horn	1-18GHz	3115	EMCO	9608-4898	37	- 1	27-May-2011
Red-Black Bilog	30-2000MHz	JB1	Sunol	A091604-2	1106	1	28-Oct-2010
Meteorological Meters		MN	Mfr	SN	Asset	Cat	Calibration Due
Temp./Humidity/Atm. Pressure Gauge		7400 Perception II	Davis	N/A	965	- 1	6-Apr-2011
1DCC-OATS-3M-I Thermohygrometer		35519-044	Control Company	72457635	1334	Ш	18-Aug-2011
CHAMBER1 Thermohygrometer		35519-044	Control Company	72457642	1345	Ш	18-Aug-2011

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

### **Product Documentation**

The following documentation has been provided by the client for inclusion in this report.

#### 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 ELECTRICAL

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 Compatibility (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\*; Oltage Dips\*, Interrupts and Voltage Variations testing\*; Magnetic Immunity testing\*; RF Power measurements\*; Frequency Stability Measurements\*; Longitudinal Induction measurements\*; Harmonic 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; SABS CISPR 22; AS/NZS CISPR 22; AS/NZS 3548; Canada ICES- 003; CNS13438; KN 22 (RRL No. 2005-82; September 29, 2005; CISPR 11; En 55011; SABS CISPR 11; AS/NZS CISPR 11; AS/NZS 2064; Canada ICES-001; CNS13803; CISPR 13; EN 55013; SABS CISPR 13; AS/NZS CISPR 13; AS/NZS 1053; CISPR 14-1; EN 55014-1; SABS CISPR 14; AS/NZS CISPR 14, AS/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; 26K-78-CORE (ESD)  EN50081-1; EN50081-2; EN50082-2; EN50082-1; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-3; EN 61000-6-3; EN 61000-6-3; EN 61000-6-3; EN 61000-6-3; EN 61000-12-12; EN 60001-2-3; EN 60001-2-2; EN 60001-2-24; EN 60001-2-3; EN 600
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; GLS-36;
Australia/New Zealand Radio Standards	ASNZS 4268; ASNZS 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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FCC Star	ndards and Test methods Support T	CB Status	
FCC Scop	pe A – Unlicensed Radio Frequency D	evices	
A1	1. 47 CFR Parts 11, 15 and 18		
	2. FCC MP-5,		
	3. ANSI C63.4-2003,		
A2	1. 47 CFR Part 15,		
	2. ANSI C63.4-2003,		
A3	1. 47 CFR Part 15,		
	<ol><li>ANSI C63.17-1998,</li></ol>		
	3. ANSI C63.4-2003,		
A4	1. 47 CFR Part 15,		
	<ol><li>ANSI C63.4-2003,</li></ol>		
FCC Scop	pe B – Licensed Radio Service Equipm	ent	
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		
	2. ANSI/TIA-603-C (2004)		
B4	1. 47 CFR Parts 2, 21, 74, and	101	
	2. ANSI/TIA-603-C (2004)		

Country Specific Standards and Other	
ITU EMC Standards	K.20; K.21; K.41; K.44
Swedish EMC Standards	BAKOM 3336.3
South African EMC Standards other then CISPR equivalents	SABS 1718-1; SANS 21//SABS CISPR 11; 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 15-5
	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
Japanese VCCI Standards	VCCI V-3, VCCI V-4

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International standards

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\*.

com Standards	Tit

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 (Feb 1998) Terminal Equipment CS-03 Issue 9 TIA/EIA TSB31-B 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

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 AS/ACIF S031-2001 Telecommunications Network

Part 1: General Part 2: Broadband Part 3: DC, Low Frequency AC and Voice band

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

Lines (DEL) of the Public Switched Felephone Network (PSTN) in Hong Kong 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 HKTA 2014

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Telecom Standards HKTA 2028	Title	E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
HKTA 2028		European standards (cont'd)	
	Network connection specification for connection of	TBR 21: 1998	Terminal Equipment (TE); Attachment requirements For pan-European approval for connection to the
	CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 1544 kbit/s		Analogue Public Switched Telephone Networks
HKTA 2029	Network connection specification for connection of		(PSTNs) of TE (excluding TE supporting the voice
	CPE to the PTNs in Hong Kong using digital leased		telephony service) in which network addressing, if
HKTA 2030	circuits at data rate of 2048 kbit/s Network Connection Specification for Connection of		provided, is by means of Dual Tone Multi Frequency (DTMF) signaling
HK1A 2030	Customer Premises Equipment (CPE) to the Public	TBR 24: 1997	Business TeleCommunications (BTC); 34 Mbit/s
	Telecommunications Network (PTN) in Hong Kong using	1	Digital Unstructured and structured leased lines
	Digital Leased Circuits at nx64 kbit/s		(D34U and D34S); Attachment requirements for
HKTA 2031	Network Connection Specification for Connection of	T : L L (DCT)	Terminal equipment interface
	Customer Premises Equipment (CPE) to the Public Telecommunications Network (PTN) in Hong Kong using	Taiwan standards (DGT) ADSL01	Asymmetric Digital Subscriber Line Terminal Equipment and
	Digital Leased Circuits below 64 kbit/s	ADSLOT	POTS Splitter Technical Specifications
HKTA 2032	Network Connection Specification for Connection of	ID0002	DS1 Equipment Type Approval Guidelines
	Customer Premises Equipment (CPE) to the Public	IS6100	ISDN Terminal Equipment Technical Specifications
	Telecommunications Networks in Hong Kong using Asymmetric Digital Subscriber Lines (ADSL) based on ITU-T	PSTN01 (non-voice only)	Technical Specifications for Terminal Equipment for Connection to Public Switched Telephone Network
	Recommendation G.992.1	New Zealand standards	Connection to Fubile Switched Telephone Network
HKTA 2033	Network Connection Specification for Connection of	PTC 200 (non-voice only)	Requirements for Connection of Customer Equipment to
	Customer Premises Equipment (CPE) to Fixed		Analogue Lines
	Telecommunications Networks in Hong Kong using Splitterless Asymmetric Digital Subscriber Lines (ADSL)	PTC 217 TNA 117	Requirements for Bandwidth Management Devices Telecom 2048 kbit/s Standard Network Interface
	based on ITU-T Recommendation G.992.2	PTC 270	Interim arrangements for ADSL CPE
European standards		1	
TBR 1: 1995	Attachment requirements for terminal equipment to	Singapore Standards	
	Be connected to circuit switched data networks and	IDA TS ADSL	Type Approval Specification for Asymmetric Digital
	Leased circuits using a CCITT Recommendation X.21 interface, or at an interface physically,	IDA TS ADSL 2	Subscriber Line (Full-rate ADSL) Modems Type Approval Specification for Asymmetric Digital
	functionally and electrically compatible with CCITT		Subscriber Line Splitterless (G-Lite) Modems
	Recommendation X.21 but operating at any data	IDA TS DLCN 1	Type Approval Specification for Digital Interfaces based on
TDD 2, 1007	signaling rate up to, and including, 1 984 kbit/s	1	hierarchical bit rates of 2048 kbit/s, 34 368 kbit/s and 139 264
TBR 2: 1997	Attachment requirements for Data Terminal Equipment (DTE) to connect to Packet Switched	IDA TS ISDN 1	kbit/s Type Approval Specification for connection of Terminal
	Public Data Networks (PSPDNs) for CCITT	IDA 13 ISDN 1	Equipment to Integrated Services Digital Network (ISDN)
	Recommendation X.25 interfaces at data signaling	1	Basic Access
	rates up to 1 920 kbit/s utilizing interfaces derived	IDA TS ISDN 2	Type Approval Specification for connection of Terminal
TBR 3: 1995 + Amdt : 1997	from CCITT Recommendations X.21 and X.21 bit Integrated Services Digital Network (ISDN);	1	Equipment to Integrated Services Digital Network (ISDN) Primary Rate Access (PRA)
1BK 3: 1995 + Amdt : 1997	Attachment requirements for terminal equipment to	IDA TS PSTN (non-voice only)	Type Approval Specification for connection of Terminal
	connect to an ISDN using ISDN basic access		Equipment to Public Switched Telephone Network (PSTN)
TBR 4: 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN);	South Africa standards	
	Attachment requirements for terminal equipment to	TE-001 (non-voice only)	Standard for Telecommunication Line Terminal Equipment
TBR 012: 1993 + Amdt : 1996	connect to an ISDN using ISDN primary rate access Business Telecommunications (BT); Open Network		(TLTE) for Connection to the Public Switched Telephone Network (PSTN)
TBR 012. 1993 + Amat : 1990	Provision (ONP) technical requirements; 2 048 kbit/s		network (1511)
	digital unstructured leased line (D2048U) Attachment		
	requirements for terminal equipment		
TBR 013: 1996	Business TeleCommunications (BTC); 2 048 kbit/s digital structured leased lines (D2048S); Attachment		
	requirements for terminal equipment interface		
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		Product Safety Standards	<u>Title</u>
General test methods:	mibility & Demoissible limits & Comments	IEC 60825-1 2001	Classification, requirements and user's guide.
Product Safety General test methods: Power input*, Permanence of marking*, Access measurement* SELV circuits* TNV limits*.	ssibility*, Permissibly limits*, Energy hazard Limited current* Canacitor Discharee / voltage		Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, l limitation*, Ring signal*, Humidity conditioni	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11	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
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10	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
General test methods: Power input*, Pemennee of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str	Limited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995	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
General test methods:  Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditionin CTIP*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str. Component abnormal*, Electric strength*, Imp	Limited current*, Capacitor Discharge / voltage ng*. Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, volube*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997)	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
General test methods:  Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str. Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*,	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, essential Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 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
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditionii CTI)*, 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*, Wa	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, publes*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ted rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il 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 1998 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
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditioni CTJ*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hof flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma	Limited current*, Capacitor Discharge / voltage ng*. Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sess*, Battery reverse current*, Ball pressure*, Leakage current*, hulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1*, 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 AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 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
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditioni CTJ*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hof flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, publes*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ted rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il 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 1998 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 requirements
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, l limitation*, Ring signal*, Humidity conditioni CTly*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer short/soverloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin,	Limited current*, Capacitor Discharge / voltage ng*. Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sess*, Battery reverse current*, Ball pressure*, Leakage current*, hulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1*, Capacitor short circuit abnormal*, Output abnormal*, Multi-	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 1997-11 21 CFR 1040.10 IEC 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	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
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, 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*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heating Product Safety Standards	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, subse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ted rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, 11 mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 12*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*	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	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
General test methods:  Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Waster Structionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards  Specific Product Safety Standards	Limited current*, Capacitor Discharge / voltage  ng*, Crepage / Clearance / Distance trun Insulation (excluding  Bond/Earthing*, Ground continuity*, Temperature*, Stability*,  ses*, Battery reverse current*, Ball pressure*, Leakage current*,  sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm  ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*,  Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*,  Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*,  1*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 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	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
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditionin CTI*)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000	Limited current*, Capacitor Discharge / voltage  ng*, Creepage / Clearance / Distance trun Insulation (excluding  Bond/Earthing*, Ground continuity*, Temperature*, Stability*,  ess*, Battery reverse current*, Ball pressure*, Lakage current*,  ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm  ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*,  Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*,  Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*,  1*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology 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 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 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 test methods:  Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str. Component abnormal*, Electric strength*, Impfamæ*, Needle flamæ*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Water Torque*, Transformer shorts/overloads*, Rain test*, Water Torque*, Transformer shorts/overloads*, Rain test*, Heating Product Safety Standards  Specific Product Safety Standards UL 60950 2000  UEC 60950 1999	Limited current*, Capacitor Discharge / voltage  ng*, Crepage / Clearance / Distance trun Insulation (excluding  Bond/Earthing*, Ground continuity*, Temperature*, Stability*,  ses*, Battery reverse current*, Ball pressure*, Leakage current*,  sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm  ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*,  Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*,  Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*,  1*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 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	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
General test methods:  Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str. Component abnormal*, Electric strength*, Impflame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heating Product Safety Standards  Specific Product Safety Standards UL 60950 2000  EIEC 60950 1999 EN 60950 2000 EIEC 60950-1 2001	Limited current*, Capacitor Discharge / voltage  ng*, Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, il*, 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 60825-2 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 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
General test methods: Power inputs*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, Ilmination*, Ring signal*, Humidity conditionit CTI)*, 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*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 IUC 60950-1 2001	Limited current*, Capacitor Discharge / voltage  ng*, Crepage / Clearance / Distance thru Insulation (excluding  Bond/Earthing*, Ground continuity*, Temperature*, Stability*,  ess*, Battery reverse current*, Ball pressure*, Leakage current*,  sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm  ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*,  Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*,  Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*,  i*, 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  Safety of information technology equipment, including	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 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 – Part 1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditionin CTIP*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/over/loads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1999 IEC 60950 1999 IEC 60950-12001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSSA C22.2 No. 60950-00	Limited current*, Capacitor Discharge / voltage  ng*, Crepage / Clearance / Distance thru Insulation (excluding  Bond/Earthing*, Ground continuity*, Temperature*, Stability*,  ess*, Battery reverse current*, Ball pressure*, Leakage current*,  sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm  ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*,  Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*,  Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*,  i*, 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  Safety of information technology equipment, including	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 (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	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
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03	Limited current*, Capacitor Discharge / voltage  ng*, Crepage / Clearance / Distance thru Insulation (excluding  Bond/Earthing*, Ground continuity*, Temperature*, Stability*,  ess*, Battery reverse current*, Ball pressure*, Leakage current*,  sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm  ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*,  Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*,  Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*,  i*, 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  Safety of information technology equipment, including	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 (Including AMZ – 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 – Part 1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Varuncionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 UL 60950 2000 UE 60950 1090 EE 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 CSA C22.2 No. 60950-10 3 IEC 61010-1 1993	Limited current*, Capacitor Discharge / voltage  ng*, Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, Il*, 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.	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 (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	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
General test methods: Power inputs', Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Impflame*, Needle flame*, Hot flaming oil*, Lock Torquee*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1999 IEC 60950 1999 IEC 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993, 2001  EN 61010-1 11993, 2001	Limited current*, Capacitor Discharge / voltage  ng*. Crepage / Clearance / Distance trus Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, i*, 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, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 1997-11 21 CFR 1040.10 IEC 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 for Safety Medical Electrical Equipment - Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements for Safety 1: Collateral Standard: Safety
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str. Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Varuncionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 UL 60950 2000 UL 60950 2000 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 1001	Limited current*, Capacitor Discharge / voltage  ng*, Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, Il*, 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.	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 IBC 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 Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems
General test methods: Power inpute', Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, Ilimitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Impfame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03 IEC 61010-1 1993, 2001 IEC 61010-1 1903, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001	Limited current*, Capacitor Discharge / voltage  ng*, Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, I*, Capacitor short circuit abnormal*, Rigidity*, Cleaning*  Title  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.	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 1997-11 21 CFR 1040.10 IEC 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 – 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 Medical Electrical Systems Medical Electrical Electrical Systems Medical Electrical Systems
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heating Product Safety Standards  Specific Product Safety Standards UL 60950 2000 IEC 60950 12003 IEC 60950 12003 IEC 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993 IEC 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2)	Limited current*, Capacitor Discharge / voltage  ng*, Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, essense, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il 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, 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.	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 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 IEC 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 – Part 1: General Requirements Information Technology Equipment – Safety – Part 1: General Requirements Lectrical 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 Requirements For Medical Electrical Equipment - Part 1: General Requirements For Safety - Section 1-1. Collateral Requirements For Medical Electrical Electrical
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Impfame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 12003 IEC 60950 12003 UL 60950 12003 USA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993 IEC 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2)	Limited current*, Capacitor Discharge / voltage  ng*. Crepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, nulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il 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 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 Medical electrical equipment. Part 1: General requirements for	IBC 60825-1 2001 IBC 60825-2 2000-5 IBC 60825-2 2000-5 IBC 60825-2 2000-5 IBC 60835-1 1997 IBC 60335-1 1998 IBC 60100-1: 2002 IBC 61010-1: 2001  AS/NZS 60950: 2000 IBC 60950-1: 2001 AS/NZS 60950: 1: 2003 IBC 60601-1: 2003 IBC 60601-1-1: 2000 IBC 60601-1-1: 2000 IBC 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 – 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 Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str. Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heating Product Safety Standards  Specific Product Safety Standards UL 60950 2000  IEC 60950 2000  IEC 60950 12003  CSA C22, No. 60950-00  CSA C22, No. 60950-103  IEC 61010-1 1993  EN 61010-1 1993, 2001  IEC 61010-1 2001  UL 61010B-1 2003  CAN/CSA 1010-1 1999 (Including AM 2)  IEC 60601-1 1995	Limited current*, Capacitor Discharge / voltage  ng*, Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, Il*, 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.	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 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 IEC 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 – Part 1: General Requirements Information Technology Equipment – Safety – Part 1: General Requirements Lectrical 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 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
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditionin CTI)*, 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*, Wa Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1909 IEC 60950 1909 IEC 60950 1909 IEC 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995 EN 60601-1 1995 (Including AM 2)	Limited current*, Capacitor Discharge / voltage  ng*. Crepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, nulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il 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 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 Medical electrical equipment. Part 1: General requirements for	IBC 60825-1 2001 IBC 60825-2 2000-5 IBC 60825-2 2000-5 IBC 60825-2 2000-5 IBC 60835-1 1997 IBC 60335-1 1998 IBC 60100-1: 2002 IBC 61010-1: 2001  AS/NZS 60950: 2000 IBC 60950-1: 2001 AS/NZS 60950: 1: 2003 IBC 60601-1: 2003 IBC 60601-1-1: 2000 IBC 60601-1-1: 2000 IBC 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 – 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 Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems
General test methods: Power inpute', Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heating Product Safety Standards  L. 60950 2000 IEC 60950 1099 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C22 2 No. 60950-00 CSA C22 2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995 EN 60601-1 1995 (Including AM 2) UL 2601-1 1995	Limited current*, Capacitor Discharge / voltage  ng*, Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, I*, Capacitor short circuit abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety requirements for electrical 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 Medical electrical equipment.	IBC 60825-1 2001 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  UL 60065: 2003 CSA 60065: 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 – 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 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 2: Collateral Standard: Safety Requirements For Safety 2: Collateral Standard: Safety Requirements for Safety 3: Collateral Standard: Safety Requirements for Safety 3: Collateral Standard: Safety Requirements for Safety 3: Safety Requirements For Safety 4: Safety Requirements For Safety 4: Safety Requirements For Safety 4: Safety Requirements For Safety 5: Safety 8: S
General test methods: Power inputs', Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Impflame*, Needle flame*, Hot flaming oil*, Lock Torquee*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heating Product Safety Standards  UL 60950 2000 IEC 60950 1909 IEC 60950 1909 IEC 60950 1909 IEC 60950 1900 OSA C22.2 No. 60950-00 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995 EN 60601-1 1995 (Including AM 2)	Limited current*, Capacitor Discharge / voltage  ng*, Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il 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 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.  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. Audio, video and similar electronic apparatus – Safety	IBC 60825-1 2001 IBC 60825-2 2000-5 IBC 60825-2 2000-5 IBC 60825-2 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: 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 – Part 1: General Requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements 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 Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Squipment - 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 Audio, Video and Similar Electronic Apparatus – Safety Requirements Audio, Video and Similar Electronic Apparatus – Safety
General test methods: Power inpute', Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, Ilimitation*, Ring signal*, Humidity conditionin CTIP*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Impflame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 2000 IEC 60950 1909 EN 60950 2000 IEC 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993 EN 6100-1 1993, 2001 IEC 61010-1 2001 UL 610108-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995 EN 60601-1 1995 (Including AM 2) IEC 60065 1998, 2000	Limited current*, Capacitor Discharge / voltage  ng*, Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, esselve*, Overvoltage*, Acoustic sound pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il 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 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	IBC 60825-1 2001 IBC 60825-2 2000-5 IBC 60825-2 2000-5 IBC 60825-2 2000-5 IBC 60825-4 1997-11 21 CFR 1040.10 IBC 60335-1 1995 Ch 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: 12003 UL 61010-1: 2004 UL 60601-1: 2003 IBC 60601-1-1: 2000 EN 60601-1-1: 2001  UL 60065: 2003 CSA 60065: 2003 IBC 60065: 2003 IBC 60065: 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 - Part 1: General Requirements Information Technology Equipment – Safety - General requirements Safety information to House Equipment – Safety – General requirements Helctrical 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 Systems Medical Electrical Equipment - Part 1: General 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
General test methods: Power inpute', Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heating Product Safety Standards  L. 60950 2000 IEC 60950 1099 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C22 2 No. 60950-00 CSA C22 2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995 EN 60601-1 1995 (Including AM 2) UL 2601-1 1995	Limited current*, Capacitor Discharge / voltage  ng*, Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, esselve*, Overvoltage*, Acoustic sound pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il 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 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 – Safety requirements Audio/video and musical instrument apparatus for Household, commercial and similar general use Australian/New Zealand	IBC 60825-1 2001 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  UL 60065: 2003 CSA 60065: 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 – Part 1: General Requirements Information Technology Equipment – Safety – Part 1: General Requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements 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 Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Squipment - 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 Audio, Video and Similar Electronic Apparatus – Safety Requirements Audio, Video and Similar Electronic Apparatus – Safety
General test methods: Power inpute', Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, Ilimitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str. Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1099 EN 60950 2000 IEC 60950-1 2003 UL 60950-1 2003 USA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010B-1 2001 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60061-1 1995 EN 60601-1 1995 (Including AM 2) IEC 60065 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00	Limited current*, Capacitor Discharge / voltage  ng*. Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, nulse*, Overvoltage*, Acoustic sound pressure*, Leakage current*, nulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm  ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il 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, 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 Medical electrical equipment 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 Standard – Approval and test Specification – Mains operated	IBC 60825-1 2001 IBC 60825-2 2000-5 IBC 60825-2 2000-5 IBC 60825-2 2000-5 IBC 60825-4 1997-11 21 CFR 1040.10 IBC 60335-1 1995 Ch 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: 12003 UL 61010-1: 2004 UL 60601-1: 2003 IBC 60601-1-1: 2000 EN 60601-1-1: 2001  UL 60065: 2003 CSA 60065: 2003 IBC 60065: 2003 IBC 60065: 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 – Part 1: General Requirements Information Technology Equipment – Safety – 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 Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Stystems 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 (Mechinery – Electrical Equipment of Machines
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str. Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Varuncionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heating Product Safety Standards  Specific Product Safety Standards UL 60950 2000 IEEC 60950 12001 UL 60950 2000 IEC 60950 12001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 6010-1 1993 IEC 61010-1 1993 IEC 61010-1 1993 IEC 61010-1 1993 IEC 60061-1 1995 EN 60061-1 1995 (Including AM 2) IEC 60065 1998, 2000 ANSI/UL 6500: 1998	Limited current*, Capacitor Discharge / voltage  ng*. Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, I*, 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 household and similar	IBC 60825-1 2001 IBC 60825-2 12001 IBC 60825-2 2000-5 IBC 60825-2 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: 2003 IBC 60601-1-1: 2000  EN 60605: 2003 IBC 60605: 2003 IBC 60065: 2003 IBC 60065: 2003 IBC 60065: 2002 EN 60065: 2002 EN 60065: 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 - Part 1: General Requirements Information Technology Equipment – Safety - General requirements Information Technology Equipment – Safety - General requirements Information Technology Equipment – Safety - General requirements Information Technology Equipment – Safety – General requirements Information Technology Equipment – Safety – General Requirements For 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 Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General 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
General test methods: Power inputs', Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Impflame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heating Product Safety Standards  Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 1991 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) UL 60061-1 1995 EN 60601-1 1995 EN 60601-1 1995 EN 60601-1 1995 IEC 60065 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00 AS/NZS 60065-00 AS/NZS 60065-00 AS/NZS 60065-000	Limited current*, Capacitor Discharge / voltage  ng*. Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, nulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il 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 requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements, 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 elec	IBC 60825-1 2001 IBC 60825-2 2000-5 IBC 60825-2 2000-5 IBC 60825-2 1997-11 21 CFR 1040.10 IBC 60335-1 1995 Ch0335-1 1995 Ch0335-1 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  UL 60065: 2003 CSA 60065: 2003 IBC 60065: 2001 EN 60065: 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 – 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 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements for Safety 8- 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 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 Compliance Test Specification – Safety and Electrical Compliance Test Specification – Safety and Electrical
General test methods: Power inputs', Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str. Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Varuncionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 UL 60950 2000 UE 60950 12001 UL 60950-1 2001 UL 6010-1 1993 EN 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001 UL 61010-1 1995 (Including AM 2) UE 60601-1 1995 (Including AM 2) UL 2601-1 1997 IEC 60065 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00 AS/NZS 60065-200 Canadian C22.2 No. 1-94 (1-98)	Limited current*, Capacitor Discharge / voltage  ng*, Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il 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. 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 equipm	IBC 60825-1 2001 IBC 60825-2 12001 IBC 60825-2 2000-5 IBC 60825-2 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: 2003 IBC 60601-1-1: 2000  EN 60605: 2003 IBC 60605: 2003 IBC 60065: 2003 IBC 60065: 2003 IBC 60065: 2002 EN 60065: 2002 EN 60065: 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 – Part 1: General Requirements Information Technology Equipment – Safety – Part 1: 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 Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements for Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements Medical Electrical Systems Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements for Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements Safety Requirem
General test methods: Power inpute', Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, Ilimitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str. Component abnormal*, Electric strength*, Impflame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*. Cooling abnormal*, Heating Product Safety Standards  Specific Product Safety Standards UL 60950 2000 IEC 60950 2000 IEC 60950 12001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 3 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001 UL 61010-1 1995 EN 60601-1 1995 EN 60601-1 1995 EN 60601-1 1995 IEC 60601-1 1995 IEC 60601-1 1995 IEC 60605 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00 AS/NZS 60065-2000 Canadian C22.2 No. 1-94 (1-98)	Limited current*, Capacitor Discharge / voltage  ng*, Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1*, Capacitor short circuit abnormal*, Quiptu tabnormal*, 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.  Electrical equipment for laboratory use Part 1: General requirements.  Medical electrical equipment. Part 1: General requirements for safety.  Medical electrical equipment 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 electronic equipment.  Consumer and commercial products Safety requirements for in operated electronic and related	IBC 60825-1 2001 IBC 60825-2 12001 IBC 60825-2 2000-5 IBC 60825-2 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: 2003 IBC 60601-1-1: 2000  EN 60605: 2003 IBC 60605: 2003 IBC 60065: 2003 IBC 60065: 2003 IBC 60065: 2002 EN 60065: 2002 EN 60065: 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 – 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 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements for Safety 8- 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 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 Compliance Test Specification – Safety and Electrical Compliance Test Specification – Safety and Electrical
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Environmental Simulation				
To a To be also	Total Standard	Supporting Standards	Note 1. For standards or methods listed on the scope of accreditation without a revision date,	
Test Technology Accessibility*	Test Standard IEC 60529	IP-0x thru IP-6x	expected to be competent in the use of the current version within one year of the date of public	
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 t	he originator has
Airborne Contaminants	GR-63-CORE Sec 4.6 GR-63-CORE Sec 4.5	MFG & Hygroscopic Dust	implementation authority. When a superseded standard or method is required for an accredite	d test, the scope
Altitude		MFG & Hygroscopic Dust	will include the superseded date/version. For those that support the TCB/CB status of the org	anization acting
	GR-63-CORE Sec 4.1.3	TEG (00(0.2.1		
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	
Drip	IEC 60529	IP-x1 & IP-x2	publication of changes for FCC and 30 days after IC website update. This note shall not be c	onstrued as an
Drops*	ETS 300 019	IEC 60068-2-32	Accreditation Body implication to adopt a more current standard than is required in a regulati	ion or code (i.e.
	GR-63-CORE Sec 4.3		the legal requirement) which is adopted by the lab under their responsibility.	
Dust	IEC 60529	IP-5x & IP-6x	are regar requirement) which is adopted by the lab under their responsibility.	
Firearms Resistance Testing	GR-487			
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		
		IEC 60068-2-56		
	GR-63-CORE Sec 4.1.2			
Salt Fog & Spray	ASTM B117			
Spatial*	GR-63-CORE Sec 2.0 & 3.0			
Spraying-Splashing	IEC 60529	IP-x3 & IP-x4		
Storage (Temperature & Humidity)*	ETS 300 019	IEC 60068-2-1		
Storage (reinperature & riumidity)	E13 300 019	IEC 60068-2-1 IEC 60068-2-2		
		IEC 60068-2-2 IEC 60068-2-14		
		IEC 60068-2-14 IEC 60068-2-30		
	CD (2 CODE C 411	IEC 60068-2-56		
***	GR-63-CORE Sec 4.1.1	TEG (00(0.2.)		
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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(A2LA Cert. No. 1627.01) 3/27/06		Page 9 of 10	(A2LA Cert. No. 1627.01) 3/27/06	Page 10 of 10