Curtis-Straus Test Report

Report No EG0786-1

> Client Thing Magic

> > 1 Broadway, 14th Floor Cambridge, MA 02142

617-758-4130 Phone Fax 617-225-4410 **FRN** 0008403743

Model M5

FCC ID QV5MERCURY5 IC ID 5407A-MERCURY5

Equipment Type Spread Spectrum Transmitter **Equipment Code DSS** Emission Designator 350KA1D

> Results As detailed within this report

Prepared by

Authorized by

Michael Buchholz – EMC Manager

Issue Date 9/11/06

Conditions of issue This Test Report is issued subject to the conditions stated in 'terms and conditions'

section of this report.

Curtis-Straus LLC is accredited by the American Association for Laboratory Accreditation for the specific scope of accreditation under Certificate Number 1627-01. This report may contain data which is not covered by the A2LA accreditation.



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Summary

This test report supports an application for certification of a transmitter operating pursuant to 47 CFR 15.247 and RSS210 Issue 6. The product is the Thing Magic M5. It is a frequency hopper that operates in the range 902-928MHz. It utilizes a hopping table of 50 channels between channel 0 (902.75MHz) and channel 50 (927.25MHz) inclusively.

Test Methodology

Testing is performed according to the procedures specified in ANSI C63.4 (2003). Public Notice DA 00-705 "Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems" was followed for testing as well.

Frequency range investigated: 30MHz – 10GHz

Measurement distance: 30 - 2500MHz 3m for Radiated Emissions 3 - 10GHz 1m

Antennas Used and Cable Lengths

The system employs 3 different cable lengths 6ft, 20ft and 25ft. When using the 6ft cable the output power level is set to 30.9dB. When using the 20ft and 25ft cables the output power level is set to 32.5dB. The EUT passes the peak output power requirement under all cable length conditions.

The system employs 4 different antennas, 3 of which have a gain of less than 6dBi; 1 antenna that has a gain greater than 6dBi. The antenna is the Thing Magic TM-NAT-NA-P25-2 which has a measured gain of 7dBi. When using this antenna the power level will be turned down by 1 dB. So for the 20ft cable the power setting will be 31.5dB and for the 6ft cable the power setting will be 29.9dB.



Statement of Conformity

The M5 has been found to conform to the following parts of 47 CFR as detailed below:

RSS-	RSS	FCC	FCC	Comments
GEN	210	Part 2	Part 15	
5.3			15.15(b)	There are no controls that adjust the power level on this device.
5.2		2.925	15.19	The label is shown in the label exhibit.
7.1.5			15.21	Information to the user is shown in the instruction manual exhibit.
			15.27	There are special accessories required for compliance see below.
7.1.4			15.203	This device requires professional installation
	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	Measurements were taken at the AC Mains input of the AC/DC adapter.
	A2.9		15.247	The unit complies with the frequency hopper requirements of 15.247

Special Accessories Required for Compliance:

In order to pass Spurious Emissions the following accessories are required: A shielded cable must be installed on the Ethernet port **OR** if an unshielded cable is used a 0.01uF capacitor must be installed in position C117 with any 1 of the following ferrites installed on the Ethernet cable at the connector: Fair-Rite PN 0444167281, 0461164281, 0444164281, and 0443164251.

Thing Magic has requested that they be certified with both special accessories options.



EUT Configuration

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EUT Configuration

Work Order: G0786 Company: Thing Magic

Company Address: 1 Broadway 14th Floor

Cambridge, MA 02142

Contact: Rich Leitermann Person Present: Mark Mildrum

MN SN

EUT: M5 Test Sample 1

EUT Description: RFID Tag Reader **EUT Max Frequency:** 902.75-927.75

Support Equipment:	MN	SN
Toshiba Laptop	1805-S207	2202182SPU
Antenna:	MN	Measured Gain
M/A-COM	MAANAT0123	5.01dBi
MTI Wireless Edge, Inc	MT-262010	5.93dBi
Thing Magic	TM-ANT-NA-2CX	7dBi
Symbol Inc.	ANT-GPHP	6.0dBi

EUT Cables:	Qty	Shielded?	Length	Ferrites	
6ft TNC Cables	2	Braid	10ft	None	1
20ft TNC Cables	2	Braid	20ft	None	Only 1 combination
25ft TNC Cables	2	Braid	25ft	None	will be used
AC-DC Mains	1	None	10ft	None	
Shielded X-Over Etherent	1	Foil	25ft	None	Only 1 will be used
Unshielded X-Over Ethernet	1	None	25ft	1	

Unpopulated EUT Ports:	Qty	Reason
dB9	1	Diagnostic/Setup only
TNC Transmit port	3	Redundent
TNC Receive port	3	Redundent

Software / Operating Mode Description:

EUT is a Frequency Hopping RFID Reader. See Operational description document for more details.

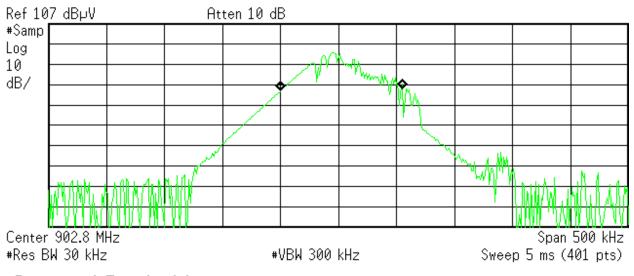


20dB Bandwidth MEASUREMENT

The 20dB bandwidth measured was **114kHz**. This value was used as the limit for the channel separation requirement.

ANALYZER PLOT

* Agilent 11:50:56 Sep 1, 2006



Occupied Bandwidth 105.0177 kHz Occ BW % Pwr 99.00 % x dB -20.00 dB

Transmit Freq Error 2.698 kHz x dB Bandwidth 114.041 kHz*

20dB Bandwidth



Channel Separation

REQUIREMENT

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"Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater." [15.247(a)(1)]

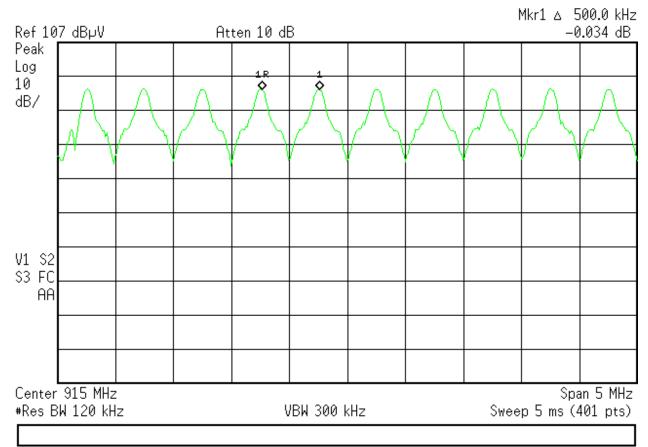
20dB bandwidth = 114kHz

MEASUREMENT

Channel separation = 500kHz

ANALYZER PLOT





Channel Separation



Number of Hopping Frequencies

REQUIREMENT

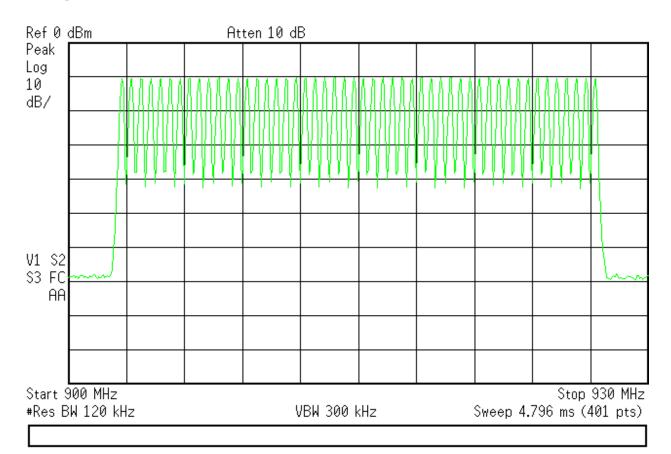
"Frequency hopping systems in the 902-928 MHz band: if the 20dB bandwidth of the hopping channel is less than 250kHz, the system shall use at least 50 hopping frequencies..." [15.247(a)(1)(i)]

MEASUREMENT

Number of Hopping Frequencies = 50

ANALYZER PLOTS

Agilent 13:54:56 Aug 4, 2006





Time of Occupancy (Dwell Time)

REQUIREMENT

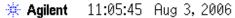
"...the average time of occupancy on any channel shall not be greater than 0.4 seconds within a 20 second period." [15.247(a)(1)(i)]

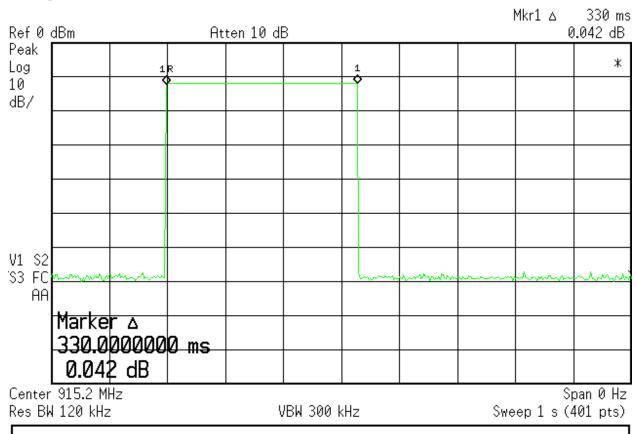
MEASUREMENTS

Individual dwell time = 330ms
Average time of occupancy in one 20 second period = 0.391s
(averaged over fifty 20 second periods)

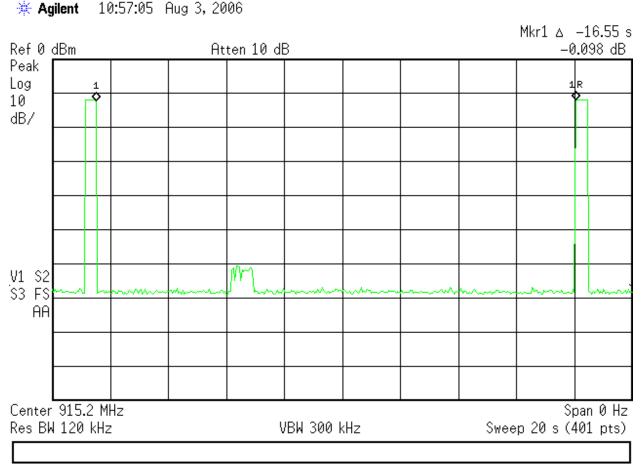
ANALYZER PLOTS

Individual Dwell Time









Number of times Hopped to any Channel in a 20s period

If averaged over fifty 20 second periods the average time of occupancy in one 20 second period would be 0.391s

Sample Calculation:

Single channel on time = 0.33sSingle channel off time = 16.55sNumber of time to a channel in a 1000 seconds = 1000/(0.33+16.55) = 59.25Single channel on time in 1000 seconds = $59.25 \times 0.33 = 19.55$ Time of occupancy in one 20 second period = $(19.55 \times 20)/1000 = 0.391s$



Peak Output Power

LIMIT

"The maximum peak output power of...systems operating in the 902-928 MHz band: 1 Watt for systems employing at least 50 hopping channels.." [15.247(b)(1)]

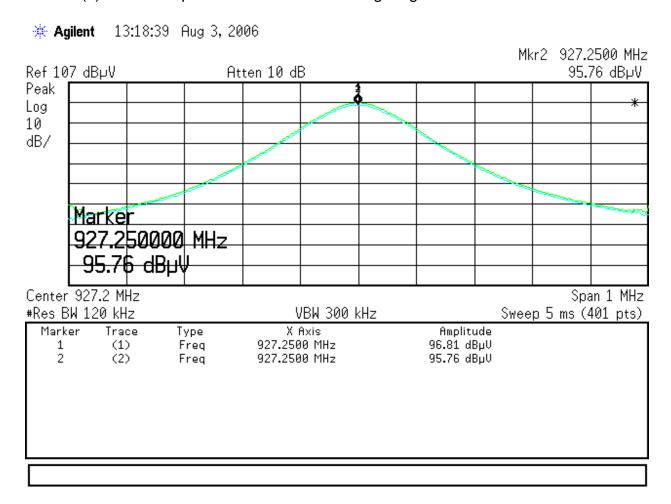
MEASUREMENTS

Peak Con	ducted	Power							Curtis-St	raus LLC	
Date: 31	1-Jul-06			Company:	Thing Magic			1	Nork Order:	G0786	
Engineer: Da	avid Harris			EUT Desc:	M5 RFID Reader	rs					
	Notes: When EUT is using 20ft cable the power level is set to 32.5dB RBW: 120kHz										
W	/hen EUT is	using 6ft cal	ble the powe	r level is set to 30	0.9dB			VBW:	1MHz		
			Attn	Cable	Adjusted	Adjusted					
	Frequency	Reading	Factor	Factor	Reading	Reading	Modulation	Limit	Margin	Result	
	(MHz)	(dBµV)	(dB)	(dB)	(dBµV)	(dBm)	Used	(dBm)	(dB)	(Pass/Fail)	
Using 20ft Cable with	power level s	et to 32.5dB									
1	915.25	93.9	40.0	2.1	136.0	29.0	Gen 2 Y	30	0.98	Pass	
	915.25	94.0	40.0	2.1	136.1	29.1	Gen 2 DRM	30	0.89	Pass	
	915.25	93.6	40.0	2.1	135.7	28.7	EPC 1	30	1.31	Pass	
	915.25	93.6	40.0	2.1	135.7	28.7	ISO18000	30	1.28	Pass	
	915.25	93.5	40.0	2.1	135.6	28.6	EPC 0	30	1.39	Pass	
	902.75	93.7	40.0	2.0	135.7	28.7	Gen 2 DRM	30	1.27	Pass	
	927.25	93.9	40.0	2.1	136.0	29.0	Gen 2 DRM	30	1.02	Pass	
Using 6ft Cable wit	th power leve	l set to 30.9dE	3								
I .	902.75	93.7	40.0	2.0	135.7	28.7	Gen 2 DRM	30	1.29	Pass	
	915.25	93.8	40.0	2.1	135.9	28.9	Gen 2 DRM	30	1.15	Pass	
	927.25	94.1	40.0	2.1	136.2	29.2	Gen 2 DRM	30	0.83	Pass	
Table	Table Result: Pass by 0.83dB Worst Freq: 927.25MHz Worst Modulation: GEN 2 DRM										
Aanlyzer Bi	rown			Cable:	EMI-R High #9						

Peak Detector used unless otherwise stated.



The system employs 1 antenna that has a gain greater than 6dBi. The antenna is the Thing Magic TM-NAT-NA-P25-2 which has a measured gain of 7dBi. When using this antenna the power level will be turned down by 1 dB. So for the 20ft cable the power setting will be 31.5dB and for the 6ft cable the power setting will be 29.9dB. The below plot shows a trace (1) with the power set to nominal for the all other antennas and the second (2) shows the power level set for the Thing Magic TM-NAT-NA-P25-2.



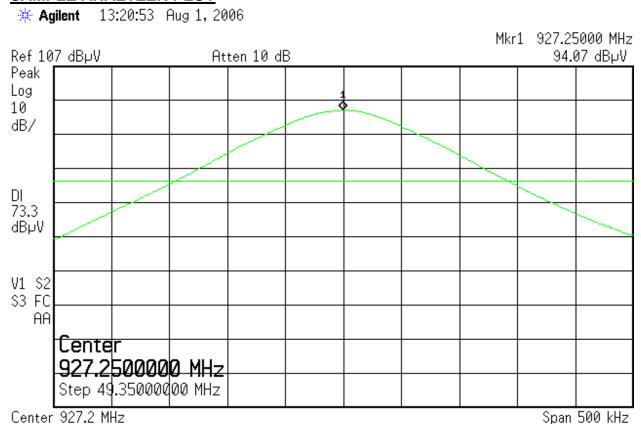


Sweep 5 ms (401 pts)

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#Res BW 120 kHz

SAMPLE ANALYZER PLOT



927.25 Fundamental

VBW 300 kHz



Radiated Band Edge

<u>LIMIT</u>

"...radiated emissions which fall in the restricted bands, as defined in §15.209(a), must also comply with the radiated emission limits specified in §15.209(a)" [15.247(c)]

MEASUREMENTS

Band Ed	ge								Curtis-St	raus LLC
Date:	31-Jul-06			Company:	Thing M	agic			Work Order	: G0786
Engineer:	David Harris			EUT Desc:	M5 RFI	Readers				
	Freque	ncy Range:	Band Edge	9			M	leasurement Distanc	e: 3 m	
Notes:	Using EPC0	Modulation A	s it was fou	ind to have	the large	st bandwidt	h	EUT Max Fre	q: 902.75-927	7.25
Antenna	1		Preamp	Antenna	Cable	Adjusted			FCC 15.24	9
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading		Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)		(dBµV/m)	(dB)	(Pass/Fail)
Operating at 902	2.75MHz									
Hpk	614.0	25.9	20.8	19.2	3.6	27.9		46.0	-18.1	Pass
Hpk	896.0	29.4	20.6	22.9	4.5	36.2		46.0	-9.9	Pass
Operating at 927	7.25MHz									
Hpk	960.0	24.3	20.6	23.4	4.7	31.8		46.0	-14.2	Pass
Hpk	935.0	29.5	20.6	23.4	4.7	37.0		46.0	-9.0	Pass
Table	e Result:	Pass	by	-9.0	dB			Worst Fred	935. 0) MHz
Test Site:	"T"	Pre-Amp:	Green	Cable:	EMIR-04	4	Analyzer: Black	Antenn	a: Red-White	



Radiated Spurious Emissions

LIMITS

"...radiated emissions which fall in the restricted bands, as defined in §15.209(a), must also comply with the radiated emission limits specified in §15.209(a)" [15.247(c)]

MEASUREMENTS

The EUT was tested with the output at the port set to its highest power level 32.5dB, using the 20ft cable and a 6dBi antenna. This configuration would yield the highest spurious emissions outside the pass band 902.75-927.25MHz.

	s Emissi	ons rai	Die							Curtis-St	raus LL(
Date:	31-Jul-06			Company:	Thing M	agic			W	ork Order:	G0786
Engineer:	David Harris			EUT Desc:	M5 RFI	O Readers					
	Freque	ncy Range:	30-1000M	Hz				Meas	urement Distance:	3 m	
Notes:	Using EPC0	Modulation							EUT Max Freq: 9	902.75-927	.25
Antenna			Preamp	Antenna	Cable	Adjusted			F	CC Class	В
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading			Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)			(dBµV/m)	(dB)	(Pass/Fai
Hbb	33.45	25.4	21.5	19.5	0.6	24.0			40.0	-16.0	Pass
Hbb	40.25	39.5	21.5	14.3	0.7	33.0			40.0	-7.0	Pass
Hbb	60.64	41.9	21.5	8.0	0.9	29.3			40.0	-10.7	Pass
Hbb	112.87	26.8	21.5	12.8	1.3	19.4			43.5	-24.1	Pass
Hbb	155.6	37.7	21.5	12.7	1.6	30.5			43.5	-13.0	Pass
Н	200.0	39.3	21.4	12.5	1.8	32.2			43.5	-11.3	Pass
Н	232.5	32.0	21.3	11.7	2.0	24.4			46.0	-21.6	Pass
Н	250.0	53.2	21.3	12.3	2.0	46.2			46.0	0.1	Fail
eplaced Etherr	net X-over cable	e with sheilded	lone								
Н	250.0	37.4	21.3	12.3	2.0	30.4			46.0	-15.6	Pass
Н	40.25	32.1	21.5	14.3	0.7	25.6			40.0	-14.4	Pass
Н	260.0	36.8	21.3	12.6	2.1	30.2			46.0	-15.8	Pass
V	300.0	37.3	21.3	14.0	2.3	32.3			46.0	-13.7	Pass
Н	325.0	31.4	21.3	14.4	2.4	26.9			46.0	-19.1	Pass
Н	400.0	29.6	21.2	16.1	2.7	27.2			46.0	-18.8	Pass
Н	409.0	38.0	21.1	16.3	2.8	36.0			46.0	-10.0	Pass
Н	474.6	33.2	21.0	17.7	3.0	32.9			46.0	-13.1	Pass
Table	e Result:	Pass	by	-7.0	dB			•	Worst Freq:	40.25	MHz
Test Site:	"T"	Pre-Amp:	Green	Cable:	EMIR-04	1	Analyzer: Bl	ack	Antenna:	Pad-Whita	

Spurious	s Emissi	ons Tal	ole								Curtis-St	aus LLC
Date:	02-Aug-06			Company:	Think M	agic				٧	ork Order:	G0786
Engineer:	David Harris			EUT Desc:	M5							
	Freque	ncy Range:	30-1000M	Hz					Measureme	nt Distance:	3 m	
		echecking EMI failure at 250MHz with modification Using unshielded ethernet cables dded .01uF 16V at pos C117 added ferrite to ethernet cable Fair Rite P/N 0444167281									25	
Antenna			Preamp	Antenna	Cable	Adjusted				I	CC Class I	3
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading				Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)				(dBµV/m)	(dB)	(Pass/Fail)
Н	250.0	51.1	22.2	13.1	2.1	44.1				46.0	-1.9	Pass
Table	e Result:	Pass	by	-1.9	dB				We	orst Freq:	250.0	MHz
Test Site:	"M"	Pre-Amp:	Blue	Cable:	EMIR-02	2	Analyzer:	Green		Antenna:	Green	



Spurious	s Emissi	ons Tab	ole								Curtis-St	raus LLC
Date:	03-Aug-06			Company:	Thing M	agic				W	ork Order:	G0786
Engineer:	David Harris			EUT Desc:	M5							
								Me	asuremer	nt Distance:	3 m	
Notes:	Rechecking E	MI failure at	250MHz w	ith modifica	tion Usin	g unshielde	d ethernet cab	les	EU.	Г Max Freq:	902.75-927	.25
Antenna			Preamp	Antenna	Cable	Adjusted				F	CC Class I	В
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading				Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)				(dBµV/m)	(dB)	(Pass/Fail)
With Ferrite fair-	rite PN 046116	4281and cap										
Н	250.0	49.5	22.2	13.1	2.1	42.5				46.0	-3.5	Pass
With Ferrite fair-	rite PN 044416	4281 and cap										
Н	250.0	46.9	22.2	13.1	2.1	39.9				46.0	-6.1	Pass
With ferrite fair-r	ite PN 0443164	1251 and cap										
Н	250.0	48.6	22.2	13.1	2.1	41.6				46.0	-4.4	Pass
Table	e Result:	Pass	by	-3.5	dB				Wo	orst Freq:	250.0	MHz
Test Site:	"M"	Pre-Amp:	Blue	Cable:	EMIR-02	2	Analyzer: B	rown		Antenna:	Green	

Spurious				0	This a M					Curtis-St	
	31-Jul-06			Company:	•	•			V	ork Order:	G0786
Engineer:	David Harris			EUT Desc:	M5 RFI	O Readers					
	Freque	ncy Range:	1-10GHz					Measureme	nt Distance:	3m and 1m	
Notes:	Using EPC0 I	Modulation A	s it was fou	ınd to have	the large	est bandedg	е	EU	T Max Freq:	902.75-927	25
Antenna			Preamp	Antenna	Cable	Adjusted			l F	CC Class I	3
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading			Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)			(dBµV/m)	(dB)	(Pass/Fail)
V	1107.0	31.0	15.7	25.7	2.1	43.1			54.0	-10.9	Pass
V	1200.0	25.8	15.7	26.0	2.2	38.3			54.0	-15.7	Pass
nstalled High Pa	ass Filter										
V	1830.5	37.9	17.7	28.6	2.7	51.5			54.0	-2.5	Pass
Change to 1m											
V	2745.0	23.1	19.1	29.6	3.1	36.7			63.5	-26.9	Pass
V	3661.0	36.9	17.4	32.0	3.8	55.3			63.5	-8.2	Pass
Table	Result:	Pass	by	-2.5	dB			W	orst Freq:	1830.5	MHz
Test Site:	"T"	Pre-Amp:	\M/hito	Cable	EMIR-H	ICH 0	Analyzer: Black		Antonna	Black Horn	



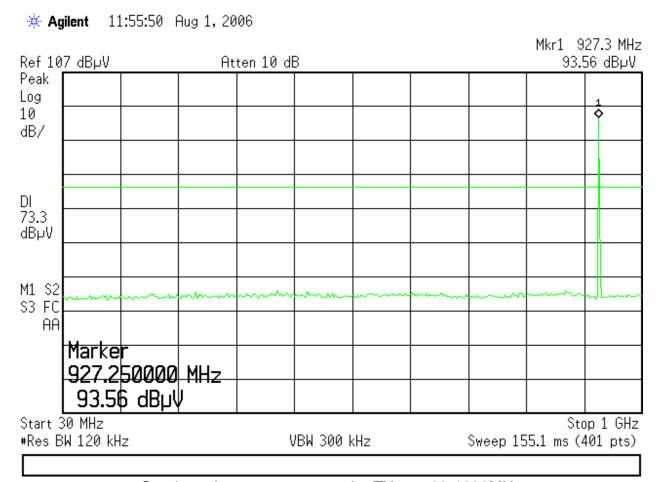
Conducted Spurious Emissions REQUIREMENT

"In any 100kHz bandwidth outside of the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. [15.247 (d)]

MEASUREMENTS

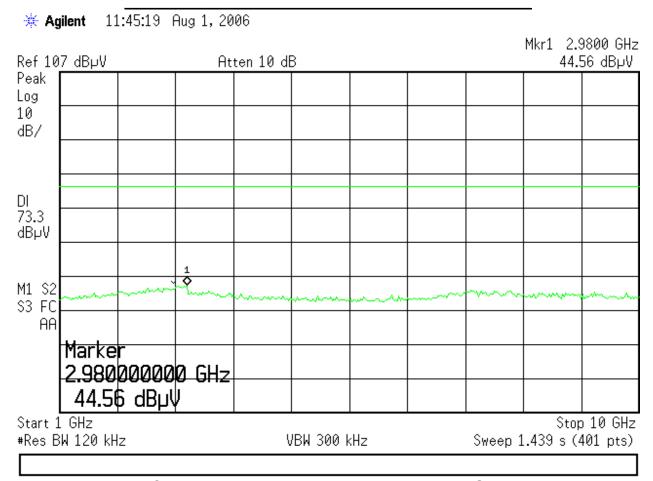
As can be seen from the plots below there are no emissions above 20dB limit defined by the fundamental.

The EUT was tested with the output at the port set to its highest power level, 32.5dB using the 20ft cable which should yield worst case conducted spurious emissions.



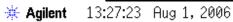
Conducted measurement on the TX port 30-1000MHz

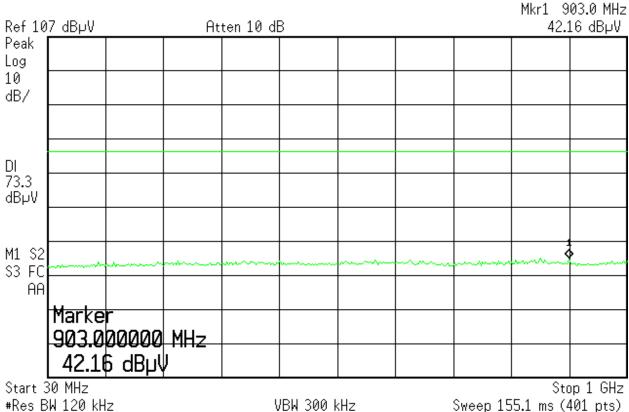




Conducted measurement on the TX port 1-10GHz

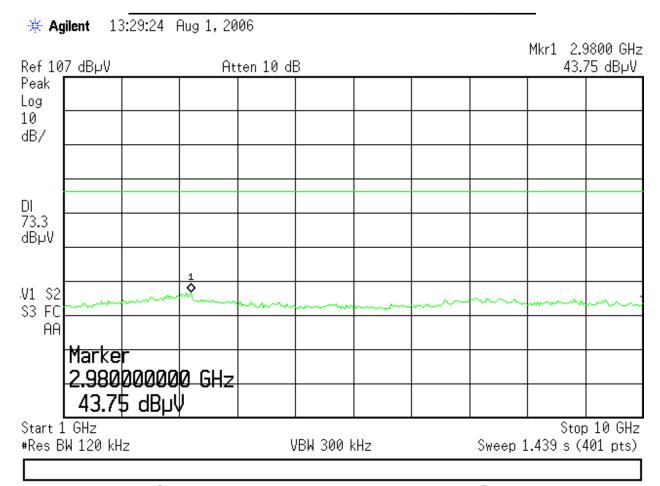






Conducted measurement on the RX port 30-1000MHz





Conducted measurement on the RX port 1-10GHz



AC Mains Conducted Emissions REQUIREMENT

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a $50 \mu H/50$ ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of Emission (MHz)	Conducted I	Limit (dBuV)
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

^{*} Decreases with the logarithm of the frequency.

[15.207 (a)]

MEASUREMENTS

AC Main	s Cond	ucted E	missio	ons					C	Curtis-Stra	us LLC	
Date:	01-Aug-06			ompany:	Think Magic						Work Order:	G0786
Engineer:	David Harris	i	E	UT Desc:	M5						Test Site:	EMI 2
Notes:												
Measurement	Device:	Red LISN										
Range:	0.15-30MHz								Spectr	um Analyzer:	Blue	
					Impedance			FCC/	CISPR B	FCC/	CISPR B	
	Q.P. Re	eadings	Ave. Re	eadings	Factor							Overall
Frequency	QP1	QP2	AV1	AV2		Limit	Margin	qp Limit	qp Margin	AVE Limit	AVE Margin	Result
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dBµV)	(dB)	(dBµV)	dB	(dBµV)	dB	(dBµV)	dB	(Pass/Fail)
0.19	31.0	30.2	16.1	13.3	21.0			64.2	-12.2	54.2	-17.2	Pass
4.10	14.3	12.7	10.9	7.5	20.2			56.0	-21.5	46.0	-14.9	Pass
12.60	29.3	29.1	21.5	20.8	20.3			60.0	-10.4	50.0	-8.2	Pass
13.10	24.1	28.8	19.5	20.1	20.3			60.0	-10.9	50.0	-9.6	Pass
19.39	24.1	24.6	17.5	18.7	20.3			60.0	-15.1	50.0	-11.1	Pass
25.39	6.3	11.0	2.8	5.8	20.3			60.0	-28.7	50.0	-24.0	Pass
Table	Result:	Pass	by	-8.20	dB				Wo	orst Freq:	12.60	MHz



Voltage Variations

REQUIREMENT

"For intentional radiators, measurements of the variation of the...radiated signal level of the fundamental frequency component of the emission...shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage." [15.31(e)]

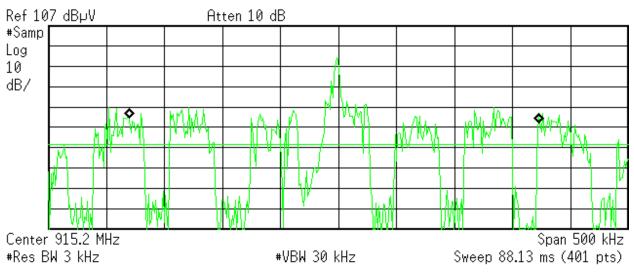
MEASUREMENTS

The voltage range listed on the power supply is 100-240VAC.

Voltage Va	riations	S		Curtis-Straus LLC				
Date: 31-	Jul-06	Company:	Company: Thing Magic					
Engineer: Day Work Order: G07		EUT Desc:	M5 RFID Re	eaders				
Voltage F	Frequency (MHz)	Reading (dBµV)	Result (Pass/Fail)					
85 120 276	915.25 915.25 915.25	93.2 93.2 93.2	Pass Pass Pass					
Table Aanlyzer Bro	Result:	Pass	EMI-R High	#0				

99% Occupied Bandwidth

*** Agilent** 14:28:01 Aug 1, 2006



Occupied Bandwidth 352.8483 kHz

Occ BW % Pwr 99.00 % x dB -6.00 dB

Transmit Freq Error -4.194 kHz x dB Bandwidth 4.413 kHz*



Test Equipment Used

							Re	v. 02-AU	G-2006	
SPECTRUM ANAL		RANGE	MN	MFR	SN		ASSET	Ca ⁻	Т	CALIBRATION DUE
RED		9kHz-1.8GHz	8591	E HP	3441A03	3559	00024	I		30-DEC-2006
WHITE		9kHz-22GHz	8593	E HP	3547U0 ⁻	1252	00022	1		14-MAR-2007
BLUE		9kHz-1.8GHz	8591	E HP	3223A00	0227	00070	1		14-DEC-2006
YELLOW		9kHz-2.9GHz	8594	E HP	3523A01958 0		00100	- 1		05-JUN-2007
GREEN		9kHz-26.5GHz	8593	E HP	3829A03	3618	00143	- 1		21-NOV-2006
BLACK		9kHz-12.8GHz	8596	E HP	3710A00	0944	00337	- 1		02-NOV-2006
TELECOM 358	85A	20Hz-40.0MHz	3585	A HP	2504A0		00030	- 1		07-FEB-2007
TELECOM 358		20Hz-40.0MHz			1750A03		00558	1		23-MAY-2007
TELECOM 358		20Hz-40.0MHz			1750A02	2762	01067	Ĺ		01-MAR-2007
ORANGE		9kHz-26.5GHz	E4407		US3944		00394	Ĺ		28-JUL-2007
BROWN (RENT	τΔι)	9kHz-26.5GHz	E4407		SG4421		Rental	1		05-JAN-2007
EMI TEST RECE		20-1000MHz	ESVS		827957		01098	i		27-OCT-2006
LISNS/MEASUREM	<i>IENT</i>	RANGE	N	ΛN	MFR	SN		ASSET	CAT	T CALIBRATION DUE
PROBES										
RED		10kHz-30MHz		R-24-BNC	SOLAR	95634		00753	II	05-MAY-2007
BLUE (DC)		10kHz-30MHz		R-24-BNC	SOLAR	95634		00752	II	05-MAY-2007
YELLOW-BLACK	K 1	10kHz-30MHz	8012-50-	R-24-BNC	SOLAR	98473		00248	II	05-MAY-2007
ORANGE	1	10kHz-30MHz		R-24-BNC	SOLAR	90370		00754	II	05-MAY-2007
GOLD (DC)	1	10kHz-30MHz	8012-50-	R-24-BNC	SOLAR	98473	4	00247	II	05-MAY-2007
Brown	1	10kHz-30MHz	8012-50-	R-24-BNC	SOLAR	04116		00986	II	05-MAY-2007
GREEN	1	10kHz-30MHz	8012-50-	R-24-BNC	SOLAR	04116	57	00987	II	08-MAY-2007
YELLOW	1	10kHz-30MHz	8012-50-	R-24-BNC	SOLAR	04116	58	1080	II	05-MAY-2007
WHITE-BLACK		10kHz-30MHz		TS-100-N	SOLAR	97201		00678	ii	05-MAY-2007
BLACK		10kHz-30MHz		TS-100-N	SOLAR	97201		00675	ii.	05-MAY-2007
RED-BLACK		10kHz-30MHz		TS-100-N	SOLAR	97201		00677	ii	05-MAY-2007
BLUE-BLACK		10kHz-30MHz		TS-100-N	SOLAR	97201		00676	ii	05-MAY-2007
									ï	
BLUE MONITORING P		0.01-150MHz		50-2	TEGAM	1235		00807	!	26-MAY-2007
YELLOW MONITORING		0.01-150MHz		50-2	ETS	5097		00493	!	23-JAN-2008
GREEN CURRENT TRANS		40Hz-20MHz		50	PEARSON	1022	o o	00793	!	07-APR-2007
BLUE CISPR LINE PI		50kHz-30MHz		I/A	C-S	N/A		00805	II	08-JUN-2007
BLACK CISPR LINE P		50kHz-30MHz		I/A	C-S	N/A		NONE	II	08-JUN-2007
CISPR TELCO VOLTAGE		10kHz-30MHz		VC-10	C-S	CS0 ²		00296	II	30-SEP-2006
CISPR 22 TELCO	ISN	9kHz-30MHz	FCC-T	LISN-T4	FISCHER	2011	5	00746	<u> </u>	26-OCT-2006
0	0 (0.4	TO \	500.0-		10.0	1/00		0	-	0
OPEN AREA TES	EF	18)	FCC Co		IC CODE		I CODE 1688	CAT II		CALIBRATION DUE
										04-APR-2007
	TE T		93448		IC 2762-T		905	II		14-AUG-2007
	EΑ		93448		IC 2762-A		903	II		13-AUG-2007
	EΜ		93448		IC 2762-M		904	II		19-MAR-2007
SIT	re J		93448	3	IC 2762A-10			II		11-APR-2008
1 m= 00 m	T C		F00.0-		10.0005	\/0	21.025		C4=	CALIDDATION DUT
LINE CONDUCT		ES	FCC Co		IC CODE		CI CODE	=	Сат	CALIBRATION DUE
	ЛI 1		93448		N/A		-1801		III	NA NA
	ЛI 2 ЛI 3		93448 93448		N/A N/A		-1802 -1803		III III	NA NA
	/II J		33440	,	1 11/71		1003		- 111	INA
MIXERS/DIPLEXERS	RANGE	MN		MFR		SN	А	SSET	Сат	CALIBRATION DUE
Mixer / Horn	26.5-40 GHz	11970A/28	-442-6	HP/ATM	2332A0169	95/A046903-		1087	ı	23-AUG-2006
MIXER / HORN	26.5-40 GHz			HP/ATM		25/A046903-		1086	i	23-AUG-2006
MIXER / HORN	40-60 GHz	M19HW		OML		0110-1		0821	i	02-MAR-2007
MIXER	33-50 GHz	11970		HP		BA03155		0104	i	08-NOV-2007
MIXER / HORN	50-75 GHz	11970V /QWH-\		HP/QUINSTAR		197/879400 <i>°</i>	-	1179	i	15-NOV-2007
MIXER	75-110 GHz	11970'/QWIP		HP		A01334		0105	i	22-NOV-2007
MIXER / HORN	60-90 GHz	M12HW		OML		0110-1		0822		
									1	03-MAR-2007
MIXER / HORN	90-140 GHz	MOSHV		OML		1206-1		0811	l U	03-MAR-2007
MIXER / HORN	140-220 GHz			OML		1206-1 N/A		0812	II I	02 MAD 2007
DIPLEXER	40-220 GHz	DPL.2	U	OML		N/A	0	0813	l	03-MAR-2007
ABSORBING	_								_	
CLAMPS	RANGE		MN		MFR	SN	Asse	T	Сат	CALIBRATION DUE
FISCHER CLAMP	30-1000MF	-lz F-20	01-23мм	F	ISCHER	10	0008	1	ı	20-JAN-2008



HARMONIC & FLICKER AN	ALYZER	MN		MFR		SN		ASSET	Сат	CALIBRATION DUE
HFTS		HP6842A		HP	353	1A-0016		00738	II	30-DEC-2007
100011/2 AC POWER SYS		(2) 5001	CALIFOR	RNIA INSTRUMENT		87/HK53		00376	ii	09-JAN-2008
PREAMPS / ATTENUATORS FILTERS	/ RAN	GE		MN	MFR		SN	Asset	Сат	CALIBRATION DUE
RED	0.10-200	00MHz	ZFL-	1000-LN	C-S		N/A	00798		28-JUL-2007
BLUE	0.01-200	00MHz	ZFL-	·1000-LN	C-S		N/A	00759) II	20-JUL-2007
BLUE-BLACK	0.01-200	00MHz		·1000-LN	C-S		N/A	00800) II	04-JAN-2007
GREEN	0.01-200	00MHz	ZFL-	1000-LN	C-S		N/A	00802	2 II	20-JUL-2007
BLACK	0.01-200	00MHz	ZFL-	1000-LN	C-S		N/A	00799) II	20-JUL-2007
Orange	0.01-200	00MHz	ZFL-	1000-LN	C-S		N/A	00765	5 II	28-DEC-2006
WHITE	1-200	GHz	SM	1C-12A	C-S		426643	00760) II	22-JUL-2007
Brown	1-200	GHz	PM2-38-218	8-4R5-17-15-SFF			PL1655	1132	II	14-APR-2007
YELLOW-BLACK	1-200	ЭHz	SM	1C-12A	C-S		535055	00801	l II	22-JUL-2007
RED-GREEN	1-200	GHz	PM2-38-218	8-4R5-17-15-SFF					II	30-MAY-2007
HF (YELLOW)	18-26.	5GHz	AFS4-180	02650-60-8P-4	C-S		467559	00758	3 II	23-AUG-2007
HIGH PASS FILTER	1-18 (-F-55204	K&L		36	00817		05-JAN-2008
Low Pass Filter	1-9 0		_	100/X4400-O/O	K&L		4	00816		05-JAN-2008
HF 20dB 50W ATTENUATOR	0.03-20			7019-20	Pasterna	CK	01	00791		10-MAY-2007
HF 30dB 50W ATTENUATOR	0.03-20			7019-30	Pasterna		02	1168	ii	10-MAY-2007
Low Freq LPF	10-100			00K1G1	MICROWAVE	E 446	02 60-01 DC04		 II	OUT OF SERVICE
					CIRCUITS MICROWAVE	- 441				
Low Freq LPF	10-100	OKHZ	L20	00K1G1	CIRCUITS		77-01 DC04:	34 1088	II	OUT OF SERVICE
ANTENNAS	RANGE		MN	MFR	SN	Asse			CALIBR	ATION DUE
GREEN BILOG	30-2000MHz	z CBL	6112B	CHASE	2742	0062	20 II		13-J	4N-2008
GREEN-BLACK BILOG	30-2000MHz	z CBL	.6112B	CHASE	2412	0012	27 II		13-J	AN-2008
GREEN-RED BILOG	30-2000MHz	z CBL	.6112B	CHASE	2435	0099	00 I		12-A	PR-2008
BLUE BILOG	30-1000MHz	z 3	143	EMCO	1271	0080)3 II		06-M	AY-2007
GRAY BILOG	20-2000MHz	z 3	141	EMCO	9703-1038	0006	6 II	06-MAY	-2007(EM	I) / 30-JUN-2007(RFI2)
YELLOW-BLACK BILOG	20-2000MHz	z CBL	6140A	CHASE	1112	0012	26 II	06-MAY	-2007(EM	I) / 01-MAY-2007(RFI)
RED-WHITE BILOG	30-2000MHz	z .	IB1	SUNOL	A091604-1	0110)5 II		11-A	PR-2008
RED-BLACK BILOG	30-2000MHz	z .	IB1	SUNOL	A091604-2	0110	6 II		11-A	PR-2008
RED-BROWN BILOG	30-2000MHz		IB1	SUNOL	A0032406	121				AR-2008
YELLOW HORN	1-18GHz		115	EMCO	9608-4898	0003		27-MAY)/ 18-MAY-2007 (RFI)
BLACK HORN	1-18GHz		115	EMCO	9703-5148	0005				JN-2007
ORANGE HORN	1-18GHz		115	EMCO	0004-6123	0039				JN-2007
HF (WHITE) HORN	18-26.5GHz		-WLM	WAVELINE	00758	0075				UG-2007
SMALL LOOP	10kHz-30MHz		-130/A	ARA	1024	0075				EB-2008
LARGE LOOP	20Hz-5MHz		511	EMCO	9704-1154	0006				AN-2008
ACTIVE MONOPOLE	30Hz-30MHz		301B	EMCO	3824	0006				PR-2007
INDUCTION COIL	50-60Hz		00-4-8	C-S	N/A	0007				EP-2007
ADJUSTABLE DIPOLE	30-1000MHz		21C	EMCO	1370	0077				AR-2007
ADJUSTABLE DIPOLE	30-1000MHz	_	21C	EMCO	1370	0075				AR-2007 AR-2007
	30Hz-100kH	_	21С 1-13.3см	C-S	N/A	0073	-		_	AR-2007 AR-2007
						0081				
	30Hz-100kH 30Hz-100kH)1-12см 01-4см	C-S C-S	N/A N/A	0081				AR-2007 AR-2007
NO TO LOUP SENSUR	JULIZ- LUUKTI	∠ KOI	U I THOIVI	U-U	IN/A	0002	.0 11		13-141	A11-2001
EET		NANI		MED		C.	.I	ACCET	CAT	CALIBRATION DUE
EFT		MN N/A		MFR		SN		ASSET 00704	Сат	CALIBRATION DUE
EFT EFT DIRECT COUPLING C		MN N/A		MFR C-S		SN 01		ASSET 00794	CAT	CALIBRATION DUE 06-FEB-2008
EFT DIRECT COUPLING C		N/A		C-S	c	01		00794	II	06-FEB-2008
ESD GENERATORS	AP	N/A MN		C-S MfR		01 SN	Asset	00794 CAT	II	06-FEB-2008 Calibration Due
ESD GENERATORS GREEN	AP	MN NSG435		C-S MFR SCHAFFNER	000	01 SN 0839	ASSET 00763	00794 CAT	II	06-FEB-2008 CALIBRATION DUE 02-MAR-2007
ESD GENERATORS GREEN RED	AP	MN NSG435 NSG435		C-S MFR SCHAFFNER SCHAFFNER	000	01 SN 0839 1625	ASSET 00763 00762	00794 CAT	II	06-FEB-2008 CALIBRATION DUE 02-MAR-2007 06-JAN-2007
ESD GENERATORS GREEN	AP	MN NSG435		C-S MFR SCHAFFNER	000	01 SN 0839	ASSET 00763	00794 CAT	II	06-FEB-2008 CALIBRATION DUE 02-MAR-2007
EFT DIRECT COUPLING C ESD GENERATORS GREEN RED YELLOW	АР	MN NSG435 NSG435 930D	OAL	C-S MFR SCHAFFNER SCHAFFNER ETS	000	01 SN 0839 1625	ASSET 00763 00762	00794 CAT	II (06-FEB-2008 CALIBRATION DUE 02-MAR-2007 06-JAN-2007
EFT DIRECT COUPLING C ESD GENERATORS GREEN RED YELLOW BEST EMC-2 MN	AP	N/A MN NSG435 NSG435 930D MFR	SN	C-S MFR SCHAFFNER SCHAFFNER ETS ASSET	000 001 2	01 SN 0839 1625 201	ASSET 00763 00762 00673	00794 CAT I I CALIBRAT	II (06-FEB-2008 CALIBRATION DUE 02-MAR-2007 06-JAN-2007 18-AUG-2007
EFT DIRECT COUPLING C ESD GENERATORS GREEN RED YELLOW BEST EMC-2 MN BLUE 711-1	АР 100 Sch	N/A MN NSG435 NSG435 930D MFR AFFNER	199824-00	C-S MFR SCHAFFNER SCHAFFNER ETS ASSET 02SC 00117	000 001 2 CAT	01 SN 0839 1625 01	ASSET 00763 00762 00673	00794 CAT I I CALIBRAT E)/03-AUG-	II (06-FEB-2008 CALIBRATION DUE 02-MAR-2007 06-JAN-2007 18-AUG-2007
EFT DIRECT COUPLING C ESD GENERATORS GREEN RED YELLOW BEST EMC-2 MN	АР 100 Sch	N/A MN NSG435 NSG435 930D MFR		C-S MFR SCHAFFNER SCHAFFNER ETS ASSET 02SC 00117	000 001 2 CAT	01 SN 0839 1625 01	ASSET 00763 00762 00673	00794 CAT I I CALIBRAT E)/03-AUG-	II (06-FEB-2008 CALIBRATION DUE 02-MAR-2007 06-JAN-2007 18-AUG-2007
EFT DIRECT COUPLING C ESD GENERATORS GREEN RED YELLOW BEST EMC-2 MN BLUE 711-1: RED 711-1:	АР 100 Schл	N/A MN NSG435 NSG435 930D MFR AFFNER AFFNER	199824-00	C-S MFR SCHAFFNER SCHAFFNER ETS ASSET 02SC 00117 74SC 00623	000 001 2 CAT	01 SN 0839 1625 001 05-JUN-2	ASSET 00763 00762 00673 007 (Surg	CAT I I CALIBRAT E) / 03-AUG- 07 (SURGE / D	II (100 DUE 2006 (D+1) (107-AR	06-FEB-2008 CALIBRATION DUE 02-MAR-2007 06-JAN-2007 18-AUG-2007
ESD GENERATORS GREEN RED YELLOW BEST EMC-2 MN BLUE 711-1 RED 711-1 CHAMBERS AND STRIPLING	АР 100 Sch 100 Sch	N/A MN NSG435 NSG435 930D MFR AFFNER AFFNER MN	199824-00 200122-07	C-S MFR SCHAFFNER SCHAFFNER ETS ASSET 02SC 00117 74SC 00623	000 001 2 CAT	01 SN 0839 1625 01 05-JUN-2	ASSET 00763 00762 00673 007 (Surgation MAR-200)	CAT CALIBRAT E) / 03-AUG- 07 (Surge / D	II (1) (1) (1) (1) (1) (1) (1) (06-FEB-2008 CALIBRATION DUE 02-MAR-2007 06-JAN-2007 18-AUG-2007
ESD GENERATORS GREEN RED YELLOW BEST EMC-2 MN BLUE 711-1: RED 711-1: RED 711-1: RED THAMBERS AND STRIPLINE RFI 1 CHAMBER	АР 100 Sch, 100 Sch,	N/A MN NSG435 NSG435 930D MFR AFFNER AFFNER MN ETER COM	199824-00 200122-07	C-S MFR SCHAFFNER SCHAFFNER ETS ASSET 02SC 00117 74SC 00623 MFR PANASHIE	CAT II (01 SN 0839 1625 01 05-JUN-2 3	ASSET 00797	CAT I CALIBRAT E) / 03-AUG- 07 (SURGE / D CAT II	II (1) (1) (2) (1) (1) (2) (2) (3) (4) (4)	06-FEB-2008 CALIBRATION DUE 02-MAR-2007 06-JAN-2007 18-AUG-2007 0/ 05-AUG-2006 (EFT) PR-2007 (EFT) ALIBRATION DUE 01-MAY-2007
ESD GENERATORS GREEN RED YELLOW BEST EMC-2 MN BLUE 711-1: RED 711-1: CHAMBERS AND STRIPLINE RFI 1 CHAMBER RFI 2 CHAMBER	АР 100 Sch, 100 Sch,	M/A MN NSG435 NSG435 930D MFR AFFNER AFFNER MN ETER COM 7' SHIELDING	199824-00 200122-07	C-S MFR SCHAFFNER SCHAFFNER ETS ASSET 02SC 00117 74SC 00623 MFR PANASHIE LINDGRE	CAT II (01 SN 0839 1625 001 005-JUN-2 3 SN N/A 3329	ASSET 00763 00762 00673 007 (SURG 1-MAR-200 ASSET 00797 00795	CALIBRAT CALIBRAT E) / 03-AUG- 07 (SURGE / D CAT II	II (1) (1) (2) (1) (1) (2) (2) (3) (4) (4)	06-FEB-2008 CALIBRATION DUE 02-MAR-2007 06-JAN-2007 18-AUG-2007 0/05-AUG-2006 (EFT) PR-2007 (EFT) ALIBRATION DUE 01-MAY-2007 30-JUN-2007
ESD GENERATORS GREEN RED YELLOW BEST EMC-2 MN BLUE 711-1: RED 711-1: RED 711-1: RED 7511-1: RED 7511-1: CHAMBERS AND STRIPLINE RFI 1 CHAMBER RFI 2 CHAMBER RFI 3 STRIPLINE	АР 100 Sch, 100 Sch,	N/A MN NSG435 NSG435 930D MFR AFFNER AFFNER MN ETER COM 7' SHIELDING N/A	199824-00 200122-07	C-S MFR SCHAFFNER SCHAFFNER ETS ASSET 02SC 00117 74SC 00623 MFR PANASHIE LINDGRE C-S	CAT II (01 6N 0839 1625 01 05-JUN-2 3' SN N/A 3329 N/A	ASSET 00763 00762 00673 007 (SURG 1-MAR-200 ASSET 00797 00795 00796	CAT I CALIBRAT E) / 03-AUG- 07 (SURGE / D CAT II	II (1) (1) (1) (2) (1) (2) (3) (4) (4) (5)	06-FEB-2008 CALIBRATION DUE 02-MAR-2007 06-JAN-2007 18-AUG-2007 0/ 05-AUG-2006 (EFT) PR-2007 (EFT) ALIBRATION DUE 01-MAY-2007 NA
ESD GENERATORS GREEN RED YELLOW BEST EMC-2 MN BLUE 711-1: RED 711-1: RED 711-1: RED 7511-1: RED 7511	100 SCH/100 SCH/04'×0'	M/A MN NSG435 NSG435 930D MFR AFFNER AFFNER MN ETER COM 7' SHIELDING	199824-00 200122-07 MPACT S SYSTEM	C-S MFR SCHAFFNER SCHAFFNER ETS ASSET 02SC 00117 74SC 00623 MFR PANASHIE LINDGRE	CAT II (01 SN 0839 1625 001 005-JUN-2 3 SN N/A 3329	ASSET 00763 00762 00673 007 (SURG 1-MAR-200 ASSET 00797 00795	CALIBRAT CALIBRAT E) / 03-AUG- 07 (SURGE / D CAT II	II (ION DUE 2006 (D+I) ++I) / 07-AF	06-FEB-2008 CALIBRATION DUE 02-MAR-2007 06-JAN-2007 18-AUG-2007 0/05-AUG-2006 (EFT) PR-2007 (EFT) ALIBRATION DUE 01-MAY-2007 30-JUN-2007



									_	
AMPLIFIERS	RANGE	MN	MFR	SN	ASSET	Сат			CALIBRA	TION DUE
RED	0.5-1000MH	10W1000B	AR	18708	00032	II		26-APR-2007 (RFI1)		
GREEN	0.5-1000MHz	2 10W1000B	AR	23423	00123	II		13-APR-2007 (RFI2)		
BLUE	0.01-250MHz	z 75A250	75A250 AR		00039	II	05-APR-	05-APR-2007 (EUCRFI) / 12-DEC-2006 (NEBS CRF		
BLACK	0.01-250MHz	z 75A250	AR	23411	00122	II	05-APR-	2007 (E	UCRFI)/1	12-DEC-2006 (NEBS CRFI)
ORANGE	0.01-250MHz	75A250	AR	26827	00367	II	05-APR-2		U CRFI) / 1 01-MAY-2	2-DEC-2006 (NEBS CRFI)/ 007 (RFI1)
BROWN 150W	0.1-250MHz	150A250	AR	313454	RENTAL	. II			30-JUN-20	007 (RFI2)
GTC 1-2.6	1.0-2.6 GHz	GRF5016A	GTC	1221	RENTAL	. II			18-MA	Y-2007
HUGHES 10W	2.0-4.0GHz	1177H01	HUGHES	055	RENTAL	. II			18-MA	Y-2007
HUGHES 10W	4.0-8.0GHz	8010H02F	Hughes	240	RENTAL	. II			18-MA	Y-2007
HUGHES 10W	8-10.0GHz	80108	HUGHES	138	RENTAL	. II			18-MA	Y-2007
HP495A	7.0-10.0GHz	HP495A	HP	304-00237	00086	II		ΟL	T OF SER	/ICE (SPARE)
AUDIO AMP	AUDIO FREQ	MPA-200	RADIO SHACK	700438	NONE	III			N	Α ` ΄
AUDIO AMP	Audio Freq	MPA-200	RADIO SHACK	708545	00862	III			N	A
FIELD PROBES	Range	M	IN	MFR		SN	Ass	ET	Сат	CALIBRATION DUE
RED	0.01-1000	MHz HI-4	422	HOLADAY	,	90369	000	31	I	01-MAR-2007
GREEN	0.01-1000	MHz HI-4	422	HOLADAY	,	97363	001	36	I	25-JUL-2007
BLUE	0.01-1000	MHz HI-4	1422	HOLADAY	,	95696	011	00	I	25-MAR-2007
Statut Can		Davies	MN	Men		CN		100==	0.7	CALIBRATION DUE
SIGNAL GENI	ERATORS	RANGE		MFR		SN		ASSET	Сат	
RED		0.09-2000MHz	HP8648B	HP		3847U02		00366	!	28-FEB-2007
BLUE		0.1-1000MHz	HP8648A	HP		3426A00		00034	!	25-AUG-2006
GREE	· -	0.09-2000MHz	HP8648B	HP		3623A02	-	00125	!	17-OCT-2006
ORANG		0.1-1000MHz	HP8648B	HP		3537A01	-	00025	!	29-JUN-2007
Brow		0.01Hz-15MHz	HP33120A	HP		US36016	-	1211		23-NOV-2006
WHITE (N	,	0.01Hz-15MHz	HP33120A	HP		US36048	-	1219	1	10-MAY-2007
BLUE-WI		0.1Hz-13MHz	HP3312A	HP		1432A07		00775	I	11-MAR-2007
SWEEP		0.01-20.0GHz	HP83752A	. HP		3610A01		00087	II.	02-MAY-2007
AM/FM STEREO		0.1-170MHz	LG3236	LEADE		368730		00959	Į.	30-AUG-2006
IMPULSE GEN	ERATOR	1-100Hz	CIG-25	ELECTRO-M	ETRICS	290	(00942	l	05-AUG-2007
Dung bure	104 Ct 4450	DANOE	MANI	Med	CNI	A 00FT	C 4 =		C++	IDDATION DUE
BULK INJECT		RANGE	MN	MFR	SN	ASSET	Сат			IBRATION DUE
Gre Re		0.01-100MHz 0.01-100MHz	95236-1 95236-1	ETS ETS	50215 34026	00118 1020	 		,	EU) /16-DEC-2006 (NEBS) EU) /16-DEC-2006 (NEBS)
IXL		0.01 1001/11/12	30200 1		3-1020	1020		007	2007 (

BULK INJECTION CLAMPS	RANGE	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
GREEN	0.01-100MHz	95236-1	ETS	50215	00118	Ш	05-APR-2007 (EU) /16-DEC-2006 (NEBS)
RED	0.01-100MHz	95236-1	ETS	34026	1020	Ш	05-APR-2007 (EU) /16-DEC-2006 (NEBS)

CDN NETWORKS	RANGE	MN	MFR	ASSET	Сат	CALIBRATION DUE
BLACK	0.10-100MHz	20A M-2 (DC)	C-S	00783	II	OUT OF SERVICE
BLUE	0.10-100MHz	15A M-3	C-S	00806	II	10-JAN-2007
ORANGE	0.10-100MHz	15A M-2	C-S	00786	II	OUT OF SERVICE
RED	0.10-100MHz	15A M-3	C-S	00780	II	10-JAN-2007
WHITE	0.10-100MHz	15A M-3	C-S	00782	II	OUT OF SERVICE
YELLOW-BLACK	0.10-100MHz	15A M-3	C-S	00784	II	10-JAN-2007
GREEN	0.10-100MHz	30A M-3	C-S	00779	II	OUT OF SERVICE
YELLOW	0.10-100MHz	30A M-5	C-S	00804	II	05-APR-2007
BLUE-WHITE	0.10-100MHz	15A M-5	C-S	00788	II	OUT OF SERVICE
Brown	0.10-100MHz	M-3	C-S	1169	II	10-JAN-2007
BROWN-WHITE	0.10-100MHz	M-3	C-S	1170	II	10-JAN-2007
BROWN-BLACK	0.10-100MHz	M-2 (DC)	C-S	1171	II	10-JAN-2007
RED-BLACK	0.10-100MHz	M-2 (DC)	C-S	1177	II	11-MAY-2007
GREEN-WHITE	0.15-80MHz	M-2 (DC)	C-S		II	01-AUG-2007
YELLOW (RES)	0.10-100MHz	100Ω RESISTOR NWK (M-1)	C-S	00810	II	05-OCT-2006
GREEN (RES)	0.10-100MHz	100Ω RESISTOR NWK (M-1)	C-S	1172	II	30-JAN-2007

OSCILLOSCOPES	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
EMC 100MHz	TDS 220	TEKTRONIX	C036986	1166	I	26-AUG-2006
ESD REFERENCE 1GHz	TDS 684B	TEKTRONIX	B011287	RENTAL	1	31-MAR-2007
PRODUCT SAFETY 100 MHz	TDS 340	TEKTRONIX	B012357	00737	I	06-OCT-2006
TELECOM 100 MHz	54645A	HP/AGILENT	US36320452	00103	I	30-JUN-2007

ANSI T1.315	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
SBC Noise Cart		C-S			III	CALIBRATION NOT REQUIRED
SBC TRANSIENT CART		C-S			III	WAVESHAPE VERIFIED BEFORE USE



IC ID 5407A-MERCURY5 FCC ID: QV5MERCURY5

RMS VOLTMETERS/CURRENT C	LAMP	MN	Mnfr		SN	ASSET	Сат	CALIBRATION DUE
TRUE-RMS MULTIMETER		79111	FLUKE	71	700298	00769	I	25-OCT-2006
TRUE-RMS MULTIMETER (REFERE	NCE)	177	FLUKE	83	390024	00973	I	21-MAR-2007
TRUE-RMS MULTIMETER		177	FLUKE	83	390025	00974	I	10-MAR-2007
TRUE-RMS MULTIMETER (TELECO	ом)	177	FLUKE	83	430419	00975	<u> </u>	21-MAR-2007
Surge Generators		MN		MFR	SN	ASSET	Сат	CALIBRATION DUE
TRANSIENT WAVEFORM MON	ITOR	TWM	-5	CDI	003982	00323	II	05-JUN-2007
Universal Surge Genera	TOR	M5		CDI	003966	00324	II	OUT OF CAL
THREE PHASE COUPLING N	WK	3CN		CDI	003455	00325	II	OUT OF CAL
1.2x50uS Plugin Modul	.E	1.2x50∪S	PLUGIN	CDI	N/A	00842	II	OUT OF CAL
10x160uS Plugin Modul	.E	10x160uS	PLUGIN	C-S	N/A	00843	Ш	08-JUN-2007
10x560uS Plugin Modul	.E	10x560uS	PLUGIN	C-S	N/A	00841	Ш	08-JUN-2007
PSURGE CONTROLLER MOD	ULE	PSURGE	8000	HAEFELY	150267	00879	II	06-JUN-2007
COUPLING/DECOUPLING MOD	DULE	PCD 9	00	HAEFELY	149213	0880	II	06-JUN-2007
IMPULSE MODULE		PIM 9	00	HAEFELY	149202	00881	II	06-JUN-2007
HIGH VOLTAGE CAP NWK 5KVD0	C. 18սF	CS-HV	CC	C-S	01	00772	II	28-SEP-2006
NEBS SURGE GENERATO	R	N/A		C-S	N/A	00088	П	06-JUN-2007
2x10uS Surge Generato		2x10t		C-S	N/A	00846	ii	06-JUN-2007
10x700uS Surge Genera		10x700	_	C-S	N/A	00847	ii	08-JUN-2007
12 PAIR SURGE RESISTOR MC		N/A		C-S	N/A	00768	ii	30-SEP-2006
Power/Noise Meters		MN	MFR		SN	ASSET	Сат	CALIBRATION DUE
Power Meter		435B	HP	24	145A11012	00773	1	12-APR-2007
Power Meter		437B	HP	29	912A01367	01099	I	12-APR-2007
Power Sensor		8481A	HP	27	702A61351	00774	I	12-APR-2007
PSOPHOMETER		2429	BRUEL & KJ	AER	1237642	00585	II	14-FEB-2007
TRANSMISSION LINE TESTER (DBR	NC)	185T	AMREL		998658	00823	II	16-MAR-2007
OVERVOLTAGE CHAMBERS	MN	MFR		SN		ASSET	Сат	CALIBRATION DUE
72kW Power Fault SIMULATOR	OV1	C-S		N/A		00792	II	31-MAR-2007
POWER FAULT SIMULATOR	OV2	C-S		N/A		00116	II	31-MAR-2007
DIPOLE TAPE MEASURES		ЛN	MFR		SN	ASSET	Сат	CALIBRATION DUE
							UAI	CALIBRATION DUE
26FT TAPE #1		BCME	LUFKIN		C3166-1	00776	!	13-MAR-2007
26FT TAPE #2	2338	BCME	Lufkin		C3166-2	00777	ı	13-MAR-2007
METEOROLOGICAL METERS		MN		MFR	SN	ASSET	Сат	CALIBRATION DUE
TEMP./HUMIDITY/ATM. PRESSURE G		7400 PERCEPTION		DAVIS	N/A	00965	II	08-FEB-2007
TEMPERATURE /HUMIDITY GAUG		THG-912		HUGER	4000562	00965	II I	08-FEB-2007 01-FEB-2007
				N SCIENTIFIC	4000562 C3166-1		!	
WEATHER CLOCK (PRESSURE ON	il Y)	BA928	UREGO	ON SCIENTIFIC	C3100-1	00831	<u> </u>	02-FEB-2007
CONSUMABLES	<u> </u>	PEC.	MFR	S	TOCK/MN	ASSET	Сат	CALIBRATION DUE
NEBS CHESECLOTH		28M/KG	ED&D		ACC-01	N/A	III	N/A
NEBS CHEESECLOTH NEBS CARBON BLOCK	_	P 1KV SURGE	RELIABL		3AB	N/A N/A	III	N/A N/A
INEDO CAKBON DLOCK	3-MIL-GA	AP INV SURGE	KELIABL	.E	SAD	IN/A	111	IN/A

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



FCC Requirements

Required Equipment Authorization for Device Type

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

FCC Required labeling for Verified Devices 47 CFR Part 15.19

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

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

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

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

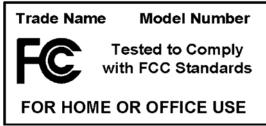
Where a device is constructed in two or more sections connected by wires and marketed together, the label is only required to be affixed to the main control unit.



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

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

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



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

Trade Name Model Number

Assembled From
Tested Components
(Complete System Not Tested)

FOR HOME OR OFFICE USE

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



FCC Required Instruction Manual Inserts CFR 47 Part 15.21 and 15.105

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

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

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

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

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver

is connected.

- Consult the dealer or an experienced radio/TV technician for help.
- (c) The provisions of paragraphs (a) and (b) of this section do not apply to digital devices exempted from the technical standards under the provisions of § 15.103.
- (d) For systems incorporating several digital devices, the statement shown in paragraph (a) or (b) of this section needs to be contained only in the instruction manual for the main control unit.



Conditions Of Testing

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

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

 13. CLIENT SHALL, EXCEPT TO THE EXTENT OF COMPANY'S LIABILITY TO CLIENT HEREUNDER (WHICH IN NO EVENT SHALL EXCEED THE LIMITATION OF LIABILITY HEREIN), HOLD HARMLESS AND INDEMNIFY THE COMPANY, ITS AFFILIATES AND THEIR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST



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

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

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

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

Rev.160009121(2)_#684340 v13CS



A2LA Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025-1999

CURTIS-STRAUS¹ 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 Safety tests:

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*; Otdage Dips*, Interrupts and Voltage Variations testing*; Magnetic Immunity testing*; Representations of the Magnetic Immunity testing*; Representations of the Magnetic Immunity testing*; Representations of the Magnetic Immunity testing*; 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: ENS5022; SABS CISPR 22: AS/NZS CISPR 22; AS/NZS 3548; Canada ICES-003; CNS1348; 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; L; EN 55014-1; SABS CISPR 14; AS/NZS CISPR 14; 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."

(A2LA Cert. No. 1627.01) 3/27/06

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

Family Product or Industry Specific Specifications including emissions and/or immunity	GR-1089-CORE: GR-78-CORE (ESD) EN50081-1; EN50081-2; EN50082-1; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-4; EN 50091-2; EN 55024; CISPR 24 EN 55103-1; EN 55103-2; EN 61326; EN 61547; EN 50130-4; EN 50083-2; EN 60601-1-2; EN 60601-2-2; EN 60601-2-47; IEC 1800-3; EN 60601-2-38; EN 60601-2-47; IEC 1800-3; EN 50001-2-47; IEC 1800-3; EN 50001-2-47; IEC 1800-3; EN 50001-2-47; IEC 1800-3; EN 60601-2-38; EN 60601-2-38; EN 60555 Part 2; EN 60555 Part 3; ETS 300 386-1; EN 300 386-2; EN 300 386, ETS 300 132-1; ETS 300 132-2; EN 60669-2-1; ASINZS 3200.1.2; CNS 13783-1; ETR 283; C62.41
Radiocommunications	
EU R&TTE Radio Standards;	EN 300 220-1; EN 300 220-3; EN 300 330-1; EN 300 330-2; EN 300 440-1; EN 300 440-2; EN 300 328; EN 300 385; EN 301 893
EU R&TTE EMC Standards	EN 300 339; EN 301 489-01; EN 301 489-03; EN 301 489-17
Canada Radio Standards	RSS-102; RSS-117; RSS-118; RSS-119; RSS-123; RSS-125; RSS-128; RSS-129; RSS-130; RSS-131; RSS-132; RSS-133; RSS-134; RSS-135; RSS-136; RSS-137; RSS-138; RSS-141; RSS-142; RSS-170; RSS-181; RSS-182; RSS-187; RSS-188; RSS-191; RSS-192; RSS-193; RSS-195; RSS-210; RSS-212; RSS-213; RSS-215; RSS-243; RSS-GEN; RSS-310; GSS-213; RSS-215; RSS-243; RSS-GEN; RSS-310; GL-366;
Australia/New Zealand Radio Standards	AS/NZS 4268; AS/NZS 4771; RFS29; Radiocommunications (Data Transmission Equipment Using Spread Spectrum Modulation Techniques); Radiocommunications (Spread Spectrum Devices); Radiocommunications (Short Range Devices); Radiocommunications (Low Interference Potential Devices);

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Other Radio Standards		RTTE 01 (DGT-Taiwan);		
FCC Star	ndards and Test methods Support TCB St	afus		
	pe A – Unlicensed Radio Frequency Devices			
A1	1. 47 CFR Parts 11, 15 and 18			
	2. FCC MP-5,			
	3. ANSI C63.4-2003,	3. ANSI C63.4-2003,		
A2	1. 47 CFR Part 15,			
	2. ANSI C63.4-2003,			
A3		1. 47 CFR Part 15,		
	2. ANSI C63.17-1998,			
	3. ANSI C63.4-2003,			
A4	1. 47 CFR Part 15,			
naa a	2. ANSI C63.4-2003,			
	pe B – Licensed Radio Service Equipment			
B1	1. 47 CFR Parts 2, 22, 24, 25, and 27	1		
B2.	2. ANSI/TIA-603-C (2004)	107		
B2	1. 47 CFR Parts 2, 22, 74, 90, 95, an	d 9/		
B3	2. ANSI/TIA-603-C (2004)			
В3	1. 47 CFR Parts 2, 80, and 87			
B4	2. ANSI/TIA-603-C (2004) 1. 47 CFR Parts 2, 21, 74, and 101			
134	2. ANSI/TIA-603-C (2004)			
	2. ANSI/11A-003-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/ISABS 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; 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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AS/ACIF S002-2001

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*.

ecom Standards	T

North American standards FCC 47 CFR Part 68 Telephone Connection of terminal equipment to the telephone Connection of terminal equipment to the teleprone 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 168 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 Australia standards

Analogue interworking and non-interference requirements for Customer Equipment for connection to the Public Switched Telephone Network 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 Ustomer Equipment for Connection to a Metallic Local Loop Interface of a Telecompunctions of August 2015. AS/ACIF S016-2001 AS/ACIF S031-2001

Telecommunications Network Part 1: General Part 2: Broadband

Part 3: DC, Low Frequency AC and Voice band International standards ITU-T G.703 Physical/electrical characteristics of hierarchical Digital interfaces

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

Network Connection Specification for Connection of 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	Title	European standards (cont'd)	
HKTA 2028	Network connection specification for connection of	TBR 21: 1998	Terminal Equipment (TE); Attachment requirements
	CPE to the PTNs in Hong Kong using digital leased		For pan-European approval for connection to the
HIZTA 2020	circuits at data rate of 1544 kbit/s		Analogue Public Switched Telephone Networks
HKTA 2029	Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased		(PSTNs) of TE (excluding TE supporting the voice telephony service) in which network addressing, if
	circuits at data rate of 2048 kbit/s		provided, is by means of Dual Tone Multi Frequency
HKTA 2030	Network Connection Specification for Connection of		(DTMF) signaling
	Customer Premises Equipment (CPE) to the Public	TBR 24: 1997	Business TeleCommunications (BTC); 34 Mbit/s
	Telecommunications Network (PTN) in Hong Kong using		Digital Unstructured and structured leased lines
HETA 2021	Digital Leased Circuits at nx64 kbit/s		(D34U and D34S); Attachment requirements for
HKTA 2031	Network Connection Specification for Connection of Customer Premises Equipment (CPE) to the Public	Taiwan standards (DGT)	Terminal equipment interface
	Telecommunications Network (PTN) in Hong Kong using	ADSL01	Asymmetric Digital Subscriber Line Terminal Equipment and
	Digital Leased Circuits below 64 kbit/s		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 Telecommunications Networks in Hong Kong using	IS6100	ISDN Terminal Equipment Technical Specifications
	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 I able 5 whence I elephone I tervora
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	PTC 217 TNA 117	Requirements for Bandwidth Management Devices
	Splitterless Asymmetric Digital Subscriber Lines (ADSL) based on ITU-T Recommendation G.992.2	PTC 270	Telecom 2048 kbit/s Standard Network Interface Interim arrangements for ADSL CPE
European standards	based on 110 1 recommendation 0.572.2	1102/0	merim unungements for ribbb et b
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	ID A TEC A DEL 2	Subscriber Line (Full-rate ADSL) Modems
	X.21 interface, or at an interface physically, functionally and electrically compatible with CCITT	IDA TS ADSL 2	Type Approval Specification for Asymmetric Digital 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
	signaling rate up to, and including, 1 984 kbit/s		hierarchical bit rates of 2048 kbit/s, 34 368 kbit/s and 139 264
TBR 2: 1997	Attachment requirements for Data Terminal	TO A TOR AGENY	kbit/s
	Equipment (DTE) to connect to Packet Switched	IDA TS ISDN 1	Type Approval Specification for connection of Terminal Equipment to Integrated Services Digital Network (ISDN)
	Public Data Networks (PSPDNs) for CCITT Recommendation X.25 interfaces at data signaling		Equipment to Integrated Services Digital Network (ISDN) Basic Access
	rates up to 1 920 kbit/s utilizing interfaces derived	IDA TS ISDN 2	Type Approval Specification for connection of Terminal
	from CCITT Recommendations X.21 and X.21 bit		Equipment to Integrated Services Digital Network (ISDN)
TBR 3: 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN);	ID A TRE DETENT	Primary Rate Access (PRA)
	Attachment requirements for terminal equipment to connect to an ISDN using ISDN basic access	IDA TS PSTN (non-voice only)	Type Approval Specification for connection of Terminal
TBR 4: 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN);	South Africa standards	Equipment to Public Switched Telephone Network (PSTN)
15x 1. 1555 1 11mat : 1557	Attachment requirements for terminal equipment to	TE-001 (non-voice only)	Standard for Telecommunication Line Terminal Equipment
	connect to an ISDN using ISDN primary rate access		(TLTE) for Connection to the Public Switched Telephone
TBR 012: 1993 + Amdt : 1996	Business Telecommunications (BT); Open Network		Network (PSTN)
	Provision (ONP) technical requirements; 2 048 kbit/s 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		
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Product Safety		Product Safety Standards	<u>Title</u>
General test methods:	uddine Demicible United France board	IEC 60825-1 2001	Classification, requirements and user's guide.
General test methods: Power input*, Permanence of marking*, Acces		Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical
General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*,	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thu Insulation (excluding	IEC 60825-1 2001	Classification, requirements and user's guide.
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground	Limited current*, Capacitor Discharge / voltage ing*, 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*, 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	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*,	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 conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, puble*, Overvoltage*, Acoustic sound pressure*, 130mm / Omm	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 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 conditioni CTJ**, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp fame*, Needle flame*, Hot flaming oil*, Lock	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*,	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	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 condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*,	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, puble*, Overvoltage*, Acoustic sound pressure*, 130mm / Omm	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 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 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 condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st 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 ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 14*, Capacitor short circuit abnormal*, Output abnormal*, Multi-	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including 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*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st 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 ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acousits cound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*,	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	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*, 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*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin,	Limited current*, Capacitor Discharge / voltage img*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-rayy*, Voltage surge*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multig device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*	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 CANICSA 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 Safety requirements for electrical equipment for
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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*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, War Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards Specific Product Safety Standards	Limited current*, Capacitor Discharge / voltage ing*. Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pubse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all government*, and the surface of the surface abnormal*, Multige 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 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
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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*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Warnetonality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heatin, Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acousite sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, it*, Capacitor short circuit abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 & 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	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
General test methods: Power inputs', 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 levels*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnormat supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1099 IEC 60950 1090 IEC 60950 1090 IEC 60950 2000	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, ill mount*, Laser radiation (excluding x-ray)*, Voltage surge*, il*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000	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
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*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Warnetonality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heatin, Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acousite sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, it*, Capacitor short circuit abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 & 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	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
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*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin, Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C2.2.2 No. 60950-00	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, ill mount*, Laser radiation (excluding x-ray)*, Voltage surge*, il*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including	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 conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Warner 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 60950-1 2001 UL 60950-1 2001 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pubse*, Overvoltage*, Acousits cound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, till*, Capacitor short circuit abnormal*, Multi- gg 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.	IEC 60825-1 2001 IEC 60825-2 1907-11 21 CFR 1040-10 IEC 6035-1 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	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
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*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin, Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C2.2.2 No. 60950-00	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, puble*, Overvoltage*, Acoustic sound pressure*, 130mm / Omm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all*, 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,	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 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: 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
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*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnormal*, Heating Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993 IEC 61010-1 1993	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pubse*, Overvoltage*, Acousite sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 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.	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 Fafety Medical Electrical Equipment - 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*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Warner 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 60950-1 2001 UL 60950-1 2001 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, puble*, Overvoltage*, Acoustic sound pressure*, 130mm / Omm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all*, 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,	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 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: 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
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*, 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 1909 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 2001 UL 61010-1 2001 UL 61010-1 2001	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, publes*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all content of the surger of the su	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 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: 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 1 - 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 General Medical Electrical General Medical Electrical General Medical Electrical Systems Medical Electrical General
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*, Implame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Varuncionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin, Product Safety Standards UL 60950 2000 IEC 60950 2000 IEC 60950 12001 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 1993, 2001 IEC 61010-1 2001	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, respective properties of the proper	IEC 60825-1 2001 IEC 60825-2 1001 IEC 60825-2 1907-11 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: 2003 IEC 60601-1-1: 2003	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety — Part1: General Requirements Information Technology Equipment – Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Ele
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*, Imp flame*, Needle flame*, Hot flaming oil*, Loc 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 12001 IEC 60950 12001 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 610101-1 2001 UL 610101-1 2003 CAN/CSA 1010-1 1999 (Including AM 2)	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, publes*, Overvoltage*, Acousite sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Multi- ge 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 1001 IEC 60825-2 1907-11 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: 2003 IEC 60601-1-1: 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 Selectrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment 1 - Part 1: General Requirements For Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Safety — Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical
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*, 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 1909 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 2001 UL 61010-1 2001 UL 61010-1 2001	Limited current*, Capacitor Discharge / voltage mg*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, respective of the properties of the	IEC 60825-1 2001 IEC 60825-2 1907-11 21 CFR 1040-10 IEC 6035-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 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 IEC 60601-1-1: 2000 EN 60601-1-1: 2000	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety — Part1: General Requirements Information Technology Equipment – Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety 1: Collateral Requirements for Safety 1: Collateral Standard: Safety 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 Standard: Safety Requirements For Medical Electrical Stystems
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*, Imp flame*, Needle flame*, Hot flaming oil*, Loc 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 12001 IEC 60950 12001 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 610101-1 2001 UL 610101-1 2003 CAN/CSA 1010-1 1999 (Including AM 2)	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, publes*, Overvoltage*, Acousite sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Multi- ge 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 1001 IEC 60825-2 1907-11 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: 2003 IEC 60601-1-1: 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 Selectrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment 1 - Part 1: General Requirements For Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Safety — Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical
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*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnormas 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 2003 CSA C22.2 No. 60950-10 UL 60950-1 2003 CSA C22.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 EN 61010-1 1901 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pubse*, Overvoltage*, Acousite sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Multi- gg 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. 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.	IEC 60825-1 2001 IEC 60825-2 1907-11 21 CFR 1040-10 IEC 6035-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 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 IEC 60601-1-1: 2000 EN 60601-1-1: 2000	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements
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*, Imp flame*, Needle flame*, Hot flaming oil*, Loc 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 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, 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 IEN 60601-1 1995 (Including AM 2) UL 2601-1 1997	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acousits cound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, 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. Medical electrical equipment. Part 1: General Requirements for safety.	IEC 60825-1 2001 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 EN 60950-1: 2001 AS:NZS 60950: 12003 UL 61010 -1: 2004 UL 60601-1: 2003 IEC 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 — Part1: General Requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment + Part 1: General Requirements for Safety Medical Electrical Equipment + Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements
General test methods: Power inputs', Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition (TT)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnormate supply abnormal*, Cooling abnormal*, Heating Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 IEN 60950 2000 IEC 60950-1 2001 UL 60950-1 2003 UL 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 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 ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acousite sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11th, Capacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements, Medical electrical equipment. Part 1: General requirements for safety. Medical electrical equipment Medical electrical equipment Medical electrical equipment 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	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 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 IEC 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 — Part1: General Requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements
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*, Imp flame*, Needle flame*, Hot flaming oil*, Loc 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 12001 IEC 60950 12001 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 1997 IEC 60065 1998, 2000	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, publes*, Overvoltage*, Acousits cound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, 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. 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. Audio, video and similar electronic apparatus – Safety requirements	IEC 60825-1 2001 IEC 60825-1 2001 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: 12003 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60601-1-1: 2001 UL 60065: 2003 CSA 60065: 2003 IEC 60065: 2003 IEC 60065: 2003 IEC 60065: 2001	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use: part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part 1: General Requirements Information Technology Equipment — Safety — General requirements 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 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: Owner inpute, 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*, Implame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Warnetonaltiy*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin, Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 2000 IEC 60950 12001 UL 60950-12001 UL 60950-12001 UL 60950-12001 UL 60950-1 2003 IEC 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 OL EN 61010-1 1999 (Including AM 2) IEC 60601-1 1995 IEC 60601-1 1995 IEC 60601-1 1995 IEC 60605 1998, 2000 ANSL/UL 6500: 1998	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acousite sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11th, Capacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements, Medical electrical equipment. Part 1: General requirements for safety. Medical electrical equipment Medical electrical equipment Medical electrical equipment 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	IEC 60825-1 2001 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 EN 60950-1: 2001 AS:NZS 60950: 12003 UL 61010 -1: 2004 UL 60601-1: 2003 IEC 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 — Part1: General Requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements
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*, Imp flame*, Needle flame*, Hot flaming oil*, Loc 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 12001 IEC 60950 12001 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 1997 IEC 60065 1998, 2000	Limited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, respils*, Overvoltage*, Acoustic sound pressure*, Lakage current*, puls*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 111*, Capacitor Short circuit abnormal*, Pulput abnormal*, Multi- gd 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 Medica	IEC 60825-1 2001 IEC 60825-1 2001 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: 12003 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60601-1-1: 2001 UL 60065: 2003 CSA 60065: 2003 IEC 60065: 2003 IEC 60065: 2003 IEC 60065: 2001	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety — Part1: General Requirements Information Technology Equipment – Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus – Safety Requirements Audio, Video and Similar Electronic Apparatus – Safety Requirements
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General test methods: Dower inpute, 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*, Img flame*, Needle flame*, Hot flaming oil*, Loc Grque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, War Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heatin, Product Safety Standards UL 60950 2000 IEC 60950 2000 IEC 60950 1200 IEC 60950 1200 IEC 60950 1200 ICS AC 22.2 No. 60950-10 3 IEC 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 (CSA CZ2.2 No. 60950-10 3 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 1999 (Including AM 2) IEC 60601-1 1995 (Including AM 2) IEC 60601-1 1995 (Including AM 2) IEC 60065 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00 ASN/ZS 60065-00 ASN/ZS 60065 2000 Canadian C22.2 No. 1-94 (1-98)	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pubse*, Overvoltage*, Acousite sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 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. Medical electrical equipment Audio/video and musical instrument apparatus for Household, commercial and similar electronic apparatus for Household, commercial and similar general use Australian/New Zealand Standard — Approval and test Specification — Mains operated electronic and related Equipment for equipment.	IEC 60825-1 2001 IEC 60825-2 1001 IEC 60825-2 1907-11 21 CFR 1040.10 IEC 6035-1 1997 & AM 12 – 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950: 2000 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60950-1: 2001 UL 60605: 2003 IEC 60605: 2003 IEC 60605: 2003 IEC 60065: 2003 IEC 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 — 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 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 Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Safety of Machinery — Electrical Equipment of Machines — Part 1: Specification for General Requirements Compliance Test Specification — Safety and Electrical Compliance Test Specification — Safety and Electrical Compliance Test Specification — Safety and Electrical
General test methods: Owner inputs', 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*, Implame*, Needle flame*, Hot flaming oil*, Loc forque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin, Product Safety Standards Specific Product Safety Standards UL 60950 2000 EEC 60950 2000 EEC 60950 12001 UL 60950-1 2001 EEC 60950-1 2001 UL 60950-1 2003 EEC 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993, 2001 EEC 61010-1 2001 UL 61010B-1 2003 EN 61010-1 1995 (Including AM 2) UL 2601-1 1995 EN 60601-1 1995 (Including AM 2) UL 2601-1 1997 IEC 60065 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00 ASS/NZS 60065 2000	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, publes*, Overvoltage*, Acousits cound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Muti- 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. 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. Part 1: General requirements 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 general use Audio, video and similar electronic equipment. Consumer and commercial products	IEC 60825-1 2001 IEC 60825-2 1001 IEC 60825-2 1907-11 21 CFR 1040.10 IEC 6035-1 1997 & AM 12 – 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950: 2000 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60950-1: 2001 UL 60605: 2003 IEC 60605: 2003 IEC 60605: 2003 IEC 60065: 2003 IEC 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 Medical Electrical Equipment + Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Safety of Machinery — Electrical Equipment of Machines — Part 1: Specification for General Requirements Compeliance Test Specification — Safety and Electrical Protection Requirements for Subscriber Equipment Connected to the Public Telecommunications Networks
General test methods: Dower inpute, 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*, Imp flame*, Needle flame*, Hot flaming oil*, Loc Orque*, 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 UL 60950 12003 USA 622.2 No. 60950-00 CSA 622.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 CAN/CSA 1010-1 11999 (Including AM 2) IEC 60061-1 1995 IEC 60061-1 1995 IEC 60061-1 1995 IEC 60061-1 1995 IEC 60065 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00 AS/NZS 60065-00 Canadian C22.2 No. 1-94 (1-98) 1994, 1998 EN 60065 1994	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pubse*, Overvoltage*, Acousite sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Multi- gg 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. 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 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 general use Audio, video and similar electronic equipment. Consumer and commercial products Safety requirements for main operated electronic and related apparatus for household and similar	IEC 60825-1 2001 IEC 60825-2 1001 IEC 60825-2 1907-11 21 CFR 1040.10 IEC 6035-1 1997 & AM 12 – 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950: 2000 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60950-1: 2001 UL 60605: 2003 IEC 60605: 2003 IEC 60605: 2003 IEC 60065: 2003 IEC 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 — 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 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 Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Safety of Machinery — Electrical Equipment of Machines — Part 1: Specification for General Requirements Compliance Test Specification — Safety and Electrical Compliance Test Specification — Safety and Electrical Compliance Test Specification — Safety and Electrical
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IC ID 5407A-MERCURY5 FCC ID: QV5MERCURY5

Environmental Simulation				
			Note 1. For standards or methods listed on the scope of accreditation without a revision date,	laboratories are
Test Technology	Test Standard	Supporting Standards	expected to be competent in the use of the current version within one year of the date of public	cation of the
Accessibility*	IEC 60529	IP-0x thru IP-6x	standard test method or upon the date specified by the standard test method originator when the	ne originator has
Acoustic Noise*	GR-63-CORE Sec 4.6		implementation authority. When a superseded standard or method is required for an accredited	
Airborne Contaminants	GR-63-CORE Sec 4.5	MFG & Hygroscopic Dust		
Altitude	GR-63-CORE Sec 4.1.3		will include the superseded date/version. For those that support the TCB/CB status of the orga	nization acting
Cold Start*	ETS 300 019	IEC 60068-2-1	as a certifier on behalf of the FCC or IC the expectation is currency within 30 days of Federal	Register
Drip	IEC 60529	IP-x1 & IP-x2	publication of changes for FCC and 30 days after IC website update. This note shall not be co	
Drops*	ETS 300 019	IEC 60068-2-32		
Diops	GR-63-CORE Sec 4.3	120 00000 2 32	Accreditation Body implication to adopt a more current standard than is required in a regulation	on or code (i.e.
Dust	IEC 60529	IP-5x & IP-6x	the legal requirement) which is adopted by the lab under their responsibility.	
		IF-5x & IF-0x		
Firearms Resistance Testing	GR-487		*0 '	41 1
Fire Resistance	ANSI.T1.319 GR-63-CORE Sec 4.2	Fire & Needle Flame	* On-site test service is available for this technology, test,	or method.
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 60068-2-14 IEC 60068-2-56		
	GR-63-CORE Sec 4.1.2	IEC 00008-2-30		
C. b. F e. C				
Salt Fog & Spray	ASTM B117			
Spatial*	GR-63-CORE Sec 2.0 & 3.0	TD 2.6 TD 4		
Spraying-Splashing	IEC 60529	IP-x3 & IP-x4		
Storage (Temperature & Humidity)*	ETS 300 019	IEC 60068-2-1		
		IEC 60068-2-2		
		IEC 60068-2-14		
		IEC 60068-2-30		
		IEC 60068-2-56		
	GR-63-CORE Sec 4.1.1			
Vibration	ETS 300 019	IEC 60068-2-6		
		IEC 60068-2-27		
		IEC 60068-2-29		
		IEC 60068-2-32		
		IEC 60068-2-52		
		IEC 60068-2-64		
		Earthquake, Office &		
	GR-63-CORE Sec 4.4	Transportation		
Water Immersion	IEC 60529	IP-x7 & IP-x8		
Water Immersion Water Jet	IEC 60529 IEC 60529	IP-x7 & IP-x8 IP-x5 & IP-x6		
water Jet	IEC 00327	II -A.J & II -AU		
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