# Curtis-Straus Test Report

Report No EH0614-1

Client Thing Magic

1 Broadway, 5<sup>th</sup> Floor Cambridge, MA 02142

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

Model M4

QV5MERCURY4 FCC ID IC ID 5407A-MERCURY4

Equipment Type Spread Spectrum Transmitter **Equipment Code DSS Emission Designator** 250KA1D

> Results As detailed within this report

Prepared by Mairaj Hussain – Test Engineer

Authorized by Michael Buchholz – EMC Manager

Issue Date 5/29/07

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

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## Summary

**REPORT: EH0614-1** 

This test report supports an application for class II permissive change for a transmitter operating under 47 CFR 15.247 and RSS210 Issue 6. The product is the Thing Magic M4 RF ID reader. It is a frequency hopper that operates in the range 902.7 – 927.25MHz. It utilizes a hopping table of 50 channels between channel 0 (902.7MHz) and channel 50 (927.25MHz) inclusively.

Class II permissive change is requested because Thing Magic intends to use the following new antenna with the product.

Manufacturer: Cushcraft
Model #: S9028PCRJ
Model #: S9028PCLJ

Gain: 6dBi

Frequency Range: 902 – 928MHz

The "L" and "R" in the antenna part number only refer to the "handedness" of the circular polarization. The remaining specifications are identical for the two models.

Please note that antenna gain of the new antennas is same as the original antennas submitted with application, therefore a new MPE calculation was not performed.

## Test Methodology

Testing is performed according to the procedures specified in ANSI C63.4 (2003). All testing was performed on a non conductive 80cm high table. Radiated spurious emissions were checked in restricted band around antenna pass band and up to 10<sup>th</sup> harmonic of the highest operating channel.

Frequency range investigated: 800MHz – 10GHz

Frequency Range Distance 900MHz – 10GHz 3 m

The system employs 2 different cable lengths 6ft and 25ft. Output power is set to 30.9dBm and 32.5dBm for 6ft and 25ft cables respectively. To represent the worst case conditions, shortest length cable (6ft) with highest power setting (32.5dBm) was used.

Emissions from the product were maximized by rotating the product and antennas. Peak and average readings were taken. If peak reading passed the average limits by more than 3db then average readings was not taken.



## **EUT Configuration**

**REPORT: EH0614-1** 

## **EUT Configuration**

Work Order: H0614

Company: Thing Magic

Company Address: 1 Broadway 5th Floor

Cambridge, MA 02142

Contact: Paul Franzosa Person Present: John Riley

> MN SN

**EUT:** Mercury 4 Sample 1

**EUT Description:** RF ID Reader EUT Max Frequency: 902.75MHz

Support Equipment:	MN	SN
Toshiba laptop	1805-5207	22021825PU
EDA AC adapter	EA10603B	sample 1

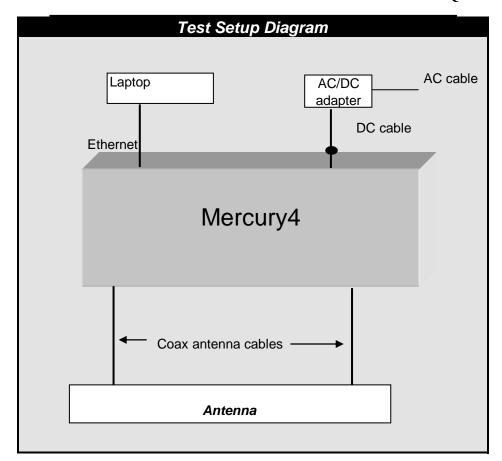
EUT Cables:	Qty	Shielded?	Length	Ferrites
Tx (coax)	1	Yes	25 ft and 6 ft	None
Rx (coax)	1	Yes	25 ft and 6 ft	None
DC power	1	No	3 ft	One
AC power	1	No	3 ft	None
Ethernet 1	1	No	6 ft	None

Unpopulated EUT Ports:	Qty	Reason
Rx ports	3	Redundant
Tx ports	3	Redundant
dB-9	1	Setup and diagnostic

## Software / Operating Mode Description:

Transmitting on either first, middle or last channel.







## 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)] Furthermore, "...in any 100KHz band outside 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 20dB below that in any 100KHz bandwidth within the band that contains the highest level of desired power, based on RF conducted or radiated measurement" [15.247(d)]

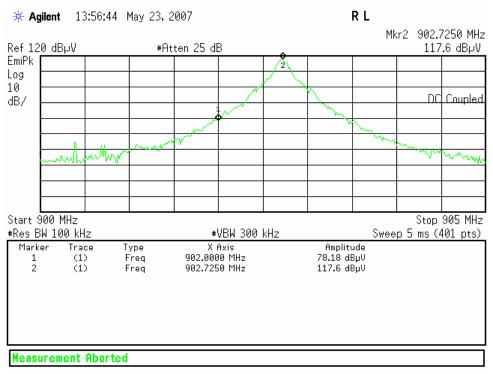
## **MEASUREMENTS**

The EUT was tested with the output at the port set to its highest power level 32.5dB, using the 6ft cable and a 6dBi antenna. This configuration would yield the highest spurious emissions outside the pass band 902 -928MHz.

Plots below show compliance with band edge requirement.

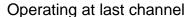
Antenna: S9028PCRJ

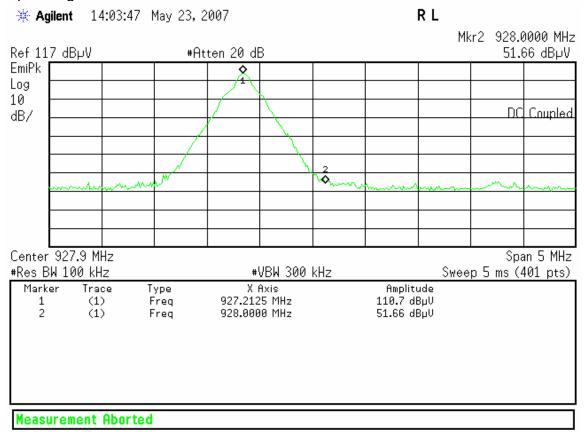
Operating at first channel



Emission at the band edge is more than 20dB smaller than the peak of fundamental.







Emission at the band edge is more than 20dB smaller than the peak of fundamental.



## Table 1

Radiated	l Emissi	ons Tab	ole								Curtis-St	aus LLC
	23-May-07 Mairaj Hussa	in		Company: Thing Magic Work Order: H0614  EUT Desc: M4 with S9028PCRJ and S9028PCLJ								H0614
Frequency Range: 900 - 1000MHz Measurement Distance: 3 m												
Notes:	Running at m	ax powe with	n 6ft antenn	a cables					EU	Γ Max Freq:	927.3MHz	
Antenna			Preamp	Antenna	Cable	Adjusted				F	CC Class I	3
Polarization (H / V)	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Factor (dB/m)	Factor (dB)	Reading (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)
At channel 902.7 Hpk At channel 927.2	960.0	30.4	24.9	23.4	7.6	36.5				46.0	-9.5	Pass
Hpk	960.0	31.0	24.9	23.4	7.6	37.1				46.0	-8.9	Pass
Table	e Result:	Pass	by	by -8.9 dB <b>Worst Freq:</b> 960.0							MHz	
Test Site:	"A"	Pre-Amp:	Red	Cable:	EMIR-09	9	Analyzer:	E7405A		Antenna:	Red-White	

## Table 2

Radiated	Emissi	ons Tak	ole						Curtis-St	raus LLC
Date:	23-May-07			Company:	Thing M	lagic		W	ork Order:	H0614
Engineer:	neer: Mairaj Hussain EUT Desc: M4 with S9028PCRJ an					J and S9028PCLJ				
	Freque	ncy Range:	1 - 10GHz				Mea	surement Distance:	3 m	
Notes:	Check harmo	nics in restri	cted band					EUT Max Freq:	927.25MHz	
Antenna			Preamp	Antenna	Cable	Adjusted		F	CC Class	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)
At 927.3MHz										
Vpk	2781.6	54.1	42.5	31.1	1.3	44.0		54.0	-10.0	Pass
Vpk	3709.0	52.8	41.6	33.5	1.5	46.2		54.0	-7.8	Pass
Vpk	4635.7	54.8	41.0	34.8	1.7	50.3		54.0	-3.7	Pass
At 915.22MHz										
Hpk	4576.2	61.4	41.1	34.6	1.7	56.6		74.0	-17.4	Pass
Havg	4576.2	57.8	41.1	34.6	1.7	53.0		54.0	-1.0	Pass
Hpk	3661.0	52.7	41.8	33.4	1.5	45.8		54.0	-8.2	Pass
Vpk	2745.7	60.7	42.3	31.0	1.3	50.7		74.0	-23.3	Pass
Vavg	2745.7	59.1	42.3	31.0	1.3	49.1		54.0	-4.9	Pass
At 902.7MHz										
Vpk	2708.1	60.2	42.4	30.9	1.3	50.0		54.0	-4.0	Pass
Vpk	3611.1	54.7	41.8	33.2	1.5	47.6		54.0	-6.4	Pass
Vpk	4513.5	66.2	41.0	34.4	1.7	61.3		74.0	-12.7	Pass
Vavg	4513.5	56.0	41.0	34.4	1.7	51.1		54.0	-2.9	Pass
Vpk	5416.0	50.6	40.6	36.7	1.9	48.6		54.0	-5.4	Pass
Table	Result:	Pass	by	-1.0	dB			Worst Freq:	4576.2	MHz
Test Site:	"Δ"	Pre-Amp:	Red-Green	Cable:	EMIR-H	ICH 21	Analyzer:	Antenna:	Black Horn	



## Test Equipment Used

- Tost Equipment	<b>0</b> 000					REV. 21-MA	Y-2007	
SPECTRUM ANALYZERS / RECEIVERS	RANGE	MN	MFR	s S	N A	SSET C	ΑT	CALIBRATION DUE
RED	9kHz-1.8GHz	8591E	Agilei	nt 3441A	03559 0	0024 l		08-JAN-2008
WHITE	9kHz-22GHz	8593E				0022 l		06-OCT-2007
BLUE	9kHz-1.8GHz	8591E				0070 I		18-DEC-2007
YELLOW	9kHz-2.9GHz	8594E				0100 I		05-JUN-2007
GREEN	9kHz-26.5GHz					0143 I		05-SEP-2007
BLACK	9kHz-12.8GHz					0337 I		08-DEC-2007
TELECOM 3585A	20Hz-40.0MHz					0030 I		15-FEB-2008
TELECOM 3585A	20Hz-40.0MHz					0558 l 1067 l		Out of Service
TELECOM 3585A ORANGE	20Hz-40.0MHz 9kHz-26.5GHz					0394 I		Out of Service Out of Service
BROWN (RENTAL)	9kHz-26.5GHz					ental I		01-FEB-2008
EMI TEST RECEIVER	20-1000MHz	ESVS3				1098 l		27-OCT-2008
RENTAL 7405A	100Hz-26.5 GHz	E7405				ental I		28-DEC-2007
TERRITE F 10071		L7 1007	t /tgiioi			ontai i		20 020 2001
LISNS/MEASUREMENT	_							
PROBES	RANGE	MI	N	MFR	SN	ASSET	г Са	T CALIBRATION DUE
RED	10kHz-30MHz	8012-50-R	R-24-BNC	SOLAR	956348	00753	3 II	05-JUN-2007
BLUE (DC)	10kHz-30MHz	8012-50-R	R-24-BNC	SOLAR	956349	00752	2 II	05-JUN-2007
YELLOW-BLACK	10kHz-30MHz	8012-50-R	R-24-BNC	SOLAR	984735	00248		05-JUN-2007
ORANGE	10kHz-30MHz	8012-50-R	R-24-BNC	SOLAR	903707	00754	1	07-MAY-2008
GOLD (DC)	10kHz-30MHz	8012-50-R	R-24-BNC	SOLAR	984734	00247		05-JUN-2007
Brown	10kHz-30MHz	8012-50-R		SOLAR	0411656			05-JUN-2007
GREEN	10kHz-30MHz	8012-50-R		SOLAR	0411657			08-JUN-2007
YELLOW	10kHz-30MHz	8012-50-R	_	SOLAR	0411658			05-JUN-2007
WHITE-BLACK	10kHz-30MHz	8610-50-T		SOLAR	972019	00678		17-MAY-2008
BLACK	10kHz-30MHz	8610-50-T		SOLAR	972017	00675	5 I	18-MAY-2008
RED-BLACK	10kHz-30MHz	8610-50-T		SOLAR	972016	00677		18-MAY-2008
BLUE-BLACK	10kHz-30MHz	8610-50-T		SOLAR	972018	00676		17-MAY-2008
BLUE MONITORING PROBE YELLOW MONITORING PROBE	0.01-150MHz	9155		TEGAM	12350	00807		26-MAY-2007
GREEN CURRENT TRANSFORMER	0.01-150MHz 40Hz-20MHz	9155 15		ETS PEARSON	50972 10226	00493 00793		23-JAN-2008 19-APR-2009
BLUE CISPR LINE PROBE	150kHz-30MHz	N/.		C-S	N/A	00793		08-JUN-2007
BLACK CISPR LINE PROBE	150kHz-30MHz	N/		C-S	N/A	1254		08-JUN-2007
CISPR TELCO VOLTAGE PROBE	10kHz-30MHz	CS A/C-10		C-S	CS01	00296		17-NOV-2007
CISPR 22 TELCO ISN	9kHz-30MHz	FCC-TLISN-T4		FISCHER	20115	00746		15-NOV-2007
OPEN AREA TEST SITES	(OATS)	FCC Cor	DE	IC CODE	VCCI (			CALIBRATION DUE
SITE F		93448		IC 2762A-1	R-16			23-JUN-2008
SITE T		93448		IC 2762A-2	R-9			23-JUN-2008
SITE A		93448		IC 2762-A	R-9			20-JUN-2008
SITE M		93448		IC 2762-M	R-9			19-JUN-2008
SITE J		93448		IC 2762A-3	R-23	377 II		12-APR-2008
CONDUCTED TEST SITES (MA	(NC / <b>T</b> EL CO)	ECC Cor	\	IC CODE	VCCI	CODE	CAT	CALIDDATION DUE
CONDUCTED TEST SITES (MA	INS / TELCO)	FCC Con 93448	<i>/</i> _	IC CODE N/A		CODE 1, T-268	CAT	CALIBRATION DUE NA
EMI 2		93448		N/A N/A		1, 1-268 2, T-269	III III	NA NA
EMI 3		93448		N/A		3, T-270	III	NA NA
						.,		
MIXERS/DIPLEXERS RANG	SE MN		MFR	(	SN	ASSET	Сат	CALIBRATION DUE
MIXER / HORN 26.5-40		-442-6	HP/ATM		5/A046903-01		I	23-AUG-2007
MIXER / HORN 26.5-40			HP/ATM		5/A046903-01		I	19-SEP-2007
MIXER / HORN 40-60 C	SHz M19HV	V/A	OML	U30	)110-1	00821	- 1	26-MAR-2009
MIXER 33-50 C			HP		A03155	00104	I	08-NOV-2007
MIXER / HORN 50-75 0			HP/QUINSTAR		197/8794001	1179	I	15-NOV-2007
MIXER 75-110			HP		A01334	00105	l	22-NOV-2007
MIXER / HORN 60-90 C			OML		)110-1	00822	I :	26-MAR-2009
MIXER / HORN 90-140			OML		206-1	00811	I.	26-MAR-2009
MIXER / HORN 140-220			OML		1206-1	00812	ļ.	26-MAR-2009
DIPLEXER 40-220	GHz DPL.2	0.0	OML		V/A	00813	I	26-MAR-2009



FISCHER CLAMP   30-1000MHr	Absorbing Clamps	RANGE	MN		MFR	SN	Asse	C	CAT	CALIBRATION DUE
HFTS		30-1000MHz	F-201-23N	ım F	ISCHER	10	0008	1	I	20-JAN-2008
HFTS										
PREAMPS   ATTENUATORS / PILTERS										
RED	10001I/2 AC POWER SY	STEM (2)	500I CALIFOR	RNIA INSTRUMENT	s HK53687	/HK53688	00	376	II	09-JAN-2008
### ATTENMATORS / FILTERS  ROD 0.009-2000MHz ZFL-1000-LN C-S N/A 00798 II 20-APR-2006  BLUE-BLOCK 0.009-2000MHz ZFL-1000-LN C-S N/A 00800 II 17-APR-2006  GREEN 0.009-2000MHz ZFL-1000-LN C-S N/A 00800 II 17-APR-2006  GREEN 0.009-2000MHz ZFL-1000-LN C-S N/A 00800 II 20-MAY-2006  GREEN 0.009-2000MHz ZFL-1000-LN C-S N/A 00800 II 20-MAY-2006  GREEN 0.009-2000MHz ZFL-1000-LN C-S N/A 00799 II 20-JUL-2007  GRANGE 0.009-2000MHz ZFL-1000-LN C-S N/A 00799 II 20-JUL-2007  GRANGE 0.009-2000MHz ZFL-1000-LN C-S N/A 00799 II 20-JUL-2007  GRED-WHITE 0.009-2000MHz ZFL-1000-LN C-S N/A 00795 II 02-MAY-2006  WHITE 1-205Hz SMC-12A C-S N/A 00760 II 22-JUL-2007  WHITE 1-205Hz SMC-12A C-S N/A 00760 II 22-JUL-2007  YELLOW-BLACK 1-205Hz FM2-38-10-48-15-SFF C-S PL-1655 1132 II 02-APR-2009  WHITE 1-205Hz PM2-38-10-48-15-SFF C-S PL-1655 1132 II 02-APR-2009  HERD-GREEN 1-205Hz PM2-38-10-48-15-SFF C-S PL-1655 1132 II 14-A-02-2009  HERD-FM2-38-10-48-15-SFF C-S PL-1655 1132 II 14-A-02-2009  HERD-FM2-38-10-48-15-SFF C-S PL-1655 1132 II 14-A-02-2009  HERD-FM2-38-10-48-15-SFF C-S PL-1655 1132 II 14-A-02-2009  HERD-FM2-38-10-48-10-15-SFF C-S PL-1655 1132 II 14-A-02-2009  HERD-FM2-38-10-16-SFF C-S PL-1655 1132 II 14-A-02-2009  HERD-FM2-38-10-SFF C-SFF	PREAMPS /									
BLUE BLUE-BLOCK 0.009-2000MHz ZFL-1000-LN C-S N/A 00800 II 17-APR-2006 GREEN 0.009-2000MHz ZFL-1000-LN C-S N/A 00800 II 12-APR-2006 GREEN 0.009-2000MHz ZFL-1000-LN C-S N/A 00789 II 12-APR-2006 GREEN 0.009-2000MHz ZFL-1000-LN C-S N/A 00789 II 22-JUL-2007 GRANCE 0.009-2000MHz ZFL-1000-LN C-S N/A 00789 II 22-JUL-2007 GRANCE 0.009-2000MHz ZFL-1000-LN C-S N/A 00786 II 02-MAY-200 WHITE 0.009-2000MHz ZFL-1000-LN C-S N/A 00786 II 02-MAY-200 WHITE 1-205Hz SMC-12A C-S N/A 00780 II 02-MAY-200 WHITE 1-205Hz SMC-12A C-S N/A 1258 II 12-MA-102-MAY-200 WHITE 1-205Hz SMC-12A C-S N/A 1258 II 12-MA-102-MAY-200 WHITE 1-205Hz SMC-12A C-S N/A 1258 II 12-MA-102-MAY-200 WHITE 1-205Hz SMC-12A C-S N/A 1258 II 14-A/MC-200 WHITE 1-205Hz SMC-12A C-S N/A 1258 II 12-A/MC-200 WHITE 1-205Hz SMC-12A C-S N/A 1258 II 12-A/MC-	ATTENUATORS / FILTERS	RANGE	ľ	MN	MFR	Si	<b>N</b>	ASSET	Сат	CALIBRATION DU
Blue-Black   0.009-2000MHz										20-APR-2008
GREEN   0.009-2000MHz   ZFL-1000-LN   C-S   N/A   0.0990   II   2.0-JUL-2007   CRANGE   0.009-2000MHz   ZFL-1000-LN   C-S   N/A   0.0765   II   0.2-MAY-2000   RED-WHITE   0.009-2000MHz   ZFL-1000-LN   C-S   N/A   0.765   II   0.2-MAY-2000   WHITE   1.20GHz   SMC-12A   C-S   A/26643   0.0760   II   2.3-JUL-2007   WHITE   1.20GHz   SMC-12A   C-S   A/26643   0.0760   II   2.3-JUL-2007   YELLOW-BLACK   1.20GHz   M2-38-218-4R8-17-15-SFF   C-S   PL1655   11.32   II   0.2-MAY-200   YELLOW-BLACK   1.20GHz   PM2-38-218-4R8-17-15-SFF   C-S   PL19177   1257   II   19-APR-2000   RED-BLUE   1.20GHz   PE2-38-218-4R8-17-15-SFF   C-S   PL3177   1257   II   19-APR-2000   HIF (YELLOW)   18-26-SGHz   A-RES-17-16-SFF   C-S   PL3177   1257   II   19-APR-2000   HIF (YELLOW)   18-26-SGHz   A-RES-17-16-SFF   C-S   PL3177   1257   II   19-APR-2000   HIF (YELLOW)   18-26-SGHz   A-RES-17-16-SFF   C-S   PL3177   1257   II   19-APR-2000   HIF (YELLOW)   18-26-SGHz   A-RES-17-16-SFF   C-S   PL3177   1257   II   19-APR-2000   HIF (YELLOW)   18-26-SGHz   A-RES-17-16-SFF   C-S   PL3177   1257   II   9-APR-2000   HIF (YELLOW)   18-26-SGHz   A-RES-17-16-SFF   C-S   PL3177   1257   II   9-APR-2000   HIF (YELLOW)   18-26-SGHz   A-RES-17-16-SFF   C-S   PL3177   1257   II   9-APR-2000   HIF (YELLOW)   18-26-SGHz   A-RES-17-16-SFF   C-S   PL3177   1257   II   9-APR-2000   HIF (YELLOW)   18-26-SGHz   A-RES-17-16-SFF   C-S   PL3177   1257   II   9-APR-2000   HIF (YELLOW)   18-26-SGHz   A-RES-17-16-SFF   C-S   PL3177   1257   II   9-APR-2000   HIF (YELLOW)   18-26-SGHz   A-RES-17-16-SFF   C-S   PL3177   1257   II   9-APR-2000   HIF (YELLOW)   18-26-SGHz   A-RES-17-16-SFF   C-S   PL3177   1257   II   9-APR-2000   HIF (YELLOW)   18-26-SGHz   A-RES-17-16-SFF   C-S   PL3177   1257   II   9-APR-2000   HIF (YELLOW)   18-26-SGHz   A-RES-17-16-SFF   C-S   PL3177   1257   II   9-APR-2000   HIF (YELLOW)   18-26-SGHz   A-RES-17-16-SFF   C-S   PL3177   1257   II   9-APR-2000   HIF (YELLOW)   18-26-SGHz   A-RES-17-16-SFF   A-RES-17-16-SFF   A-RES-17-16-SFF   A-RES										17-APR-2008
BLACK   0.009-2000MHz										
CRANGE   0.009-2000MHz   ZFL-1000-LN   C-S   N/A   0765   II 02-MAY-200										
RED-WHITE										
WHITE										
BROWN										
YELLOW-BLACK         1:20GHz         PMC-98-28-18-485-17-16-SFF         C-S         \$35055         00801         II         OUT OF SERVIN           RED-GREEN         1:20GHz         PM2-38-28-18-485-17-16-SFF         C-S         PL3177         1256         II         14-AUG-200           HIGH PLASS FILTER         1:18 GHz         SPA-F-55204         K&L         36         00817         II         05-JAN-2000           LOW PASS FILTER         1:19 GHz         SPA-F-55204         K&L         4         00816         II         05-JAN-2000           HE 2006 SOW ATTENLATOR         0.03-20 GHz         PE 7019-20         PASTERMACK         01         00791         II         08-MAY-200           HE 2006 SOW ATTENLATOR         0.03-20 GHz         PE 7019-30         PASTERMACK         02         1188         II         08-MAY-200           LOW FRED LPF         10-100kHz         L200K161         MSTERMACK         02         1188         II         09-MAY-200           LOW FRED LPF         10-100kHz         L200K161         MSTERMACK         02         118         II         0007-09-MAY-200           LOW FRED LPF         10-100kHz         L200K161         MSTERMACK         02         118         119-MAY-200           GREE										
RED-GREEN   1-200Hz										
RED-BLUE										
HF (YELLOW)	-									
HIGH PASS FILTER										
LOW PASS FILTER	( - /									
HF 2006 50W ATTENUATOR 0.03-20 GHz PE 7019-20 PASTERNACK 02 1168 II 08-MAY-2000 PASTERNACK 02 100 II 08-MAY-2000 PASTERNACK 02 10 II 08-MAY-2000 PASTERNACK 02 II 08-MA										
HF 300B 50W ATTENUATOR										
A00B 100W ATTENUATOR   0.09-4000MHz						_				
LOW FRED LPF										
LOW FREQ LPF										
ANTENNAS	Low FREQ LPF	10-100kHz	L200	OK1G1	CIRCUITS	4460-01	DC0432	1019	II	OUT OF SERVICE
GREEN BILOG   30-2000MHz   CBL6112B	Low Freq LPF	10-100ĸHz	L200	K1G1		4777-01	DC0434	1088	II	OUT OF SERVICE
GREEN BILOG   30-2000MHz   CBL6112B	A	D		14	ONI	A			0	
GREEN-BLACK BILOG   30-2000MHz   CBL6112B   CHASE   2412   00127   II   13-JAN-2008   GREEN-RED BILOG   30-2000MHz   3143   EMCO   1271   00803   II   06-JUN-2007   CBL6112B   CHASE   2435   0.099   I   12-APR-2008   CBL6112B   CHASE   2435   0.099   I   12-APR-2008   CBL6112B   CHASE   1271   00803   II   06-JUN-2007   CBL61140A   CHASE   1112   00126   II   06-JUN-2007   CBL61140A   CBL61140A   CHASE   1112   00126   II   06-JUN-2007   CBL61140A										
GREEN-RED BILLOG   30-2000MHz   3143   EMCO   1271   00803   I   06-JUN-2007										
BLUE BILOG   30-1000MHz   3141   EMCO   9703-1038   00066   II   06-JUN-2007(EMI)/04-FEB-2008(RF GRAY BILOG   20-2000MHz   3141   EMCO   9703-1038   00066   II   06-JUN-2007(EMI)/04-FEB-2008(RF GRAY BILOG   20-2000MHz   CBL6140A   CHASE   1112   00126   II   06-JUN-2007(EMI)/20-AFR-2008(RF REO-WHITE BILOG   30-2000MHz   JB1   SUNOL   A091604-1   01105   I   07-NOV-2008   RED-BROWN BILOG   30-2000MHz   JB1   SUNOL   A091604-2   01106   I   20-OCT-2008   RED-BROWN BILOG   30-2000MHz   JB1   SUNOL   A0932406   1218   I   04-AUG-2008   YELLOW HORN   1-18GHz   31115   EMCO   9608-4898   00037   I   27-MAY-2007(EMI)   7-MAY-2008 (RF GRANGE HORN   1-18GHz   31115   EMCO   9703-5148   00056   I   17-JUN-2007(EMI)   17-MAY-2008 (RF GRANGE HORN   1-18GHz   31115   EMCO   9703-5148   00056   I   17-JUN-2007(EMI)   17-MAY-2008 (RF GRANGE HORN   1-18GHz   31115   EMCO   0004-6123   00390   I   09-JUN-2007(EMI)   17-MAY-2008 (RF GRANGE HORN   1-18GHz   3115   EMCO   9703-5148   00056   I   17-JUN-2007(EMI)   17-MAY-2008 (RF GRANGE HORN   1-18GHz   3115   EMCO   9703-5148   00056   I   17-JUN-2007(EMI)   17-MAY-2008 (RF GRANGE HORN   1-18GHz   3115   EMCO   9703-5148   00056   I   17-JUN-2007(EMI)   17-MAY-2008 (RF GRANGE HORN   1-18GHz   3115   EMCO   9703-5148   00056   I   17-JUN-2007(EMI)   17-MAY-2008 (RF GRANGE HORN   1-18GHz   3115   EMCO   9703-5148   00056   I   17-JUN-2007(EMI)   17-MAY-2008 (RF GRANGE HORN   1-18GHz   3115   EMCO   9703-5148   00056   I   17-JUN-2007(EMI)   17-MAY-2008 (RF GRANGE HORN   1-18GHz										
GRAY BILOG   20-2000MHz   3141   EMCO   9703-1038   00066   II   06-JUN-2007(EMI) / 04-FEB-2008(RF YELLOW-BLACK BILOG   20-2000MHz   CBL6140A   CHASE   1112   00126   II   06-JUN-2007(EMI) / 04-FEB-2008(RF RED-WHITE BILOG   30-2000MHz   JB1   SUNOL   A091604-1   01105   I   07-NOV-2008   RED-BLACK BILOG   30-2000MHz   JB1   SUNOL   A091604-2   01106   I   20-OCT-2008   RED-BROWN BILOG   30-2000MHz   JB1   SUNOL   A091604-2   01106   I   20-OCT-2008   RED-BROWN BILOG   30-2000MHz   JB1   SUNOL   A0932406   1218   I   04-AUG-2008   YELLOW HORN   1-186Hz   3115   EMCO   9608-4898   00037   I   27-MAY-2007(EMI)   71-MAY-2008 (R   FEM							-			
Yellow-Black Bilog   20-2000MHz   CBL6140A   CHASE   1112   00126   II   06-JUN-2007(EMI)/20-APR-2008(RF RED-WHITE BILOG   30-2000MHz   JB1   SUNOL   A091604-2   01106   I   20-OCT-2008   RED-BLACK BILOG   30-2000MHz   JB1   SUNOL   A091604-2   01106   I   20-OCT-2008   RED-BROWN BILOG   30-2000MHz   JB1   SUNOL   A0932406   1218   I   04-AUG-2008   YELLOW HORN   1-18GHz   3115   EMCO   9608-4898   00037   I   27-MAY-2007(EMI)   17-MAY-2007(EMI)   17-MAY-2007(EMI)   17-MAY-2008 (RED-BROWN BILOG   A0032406   1218   I   04-AUG-2008   YELLOW HORN   1-18GHz   3115   EMCO   9703-5148   00056   I   17-JUN-2007(EMI)   17-MAY-2008 (RED-BROWN BILOG   A0032406								06- ILIN-3		
RED-WHITE BILOG   30-2000MHz   JB1   SUNOL   A091604-1   01105   I   07-NOV-2008   RED-BLACK BILOG   30-2000MHz   JB1   SUNOL   A091604-2   01106   I   20-OCT-2008   RED-BROWN BILOG   30-2000MHz   JB1   SUNOL   A093604-6   1218   I   04-AUG-2008   YELLOW HORN   1-18GHz   3115   EMCO   9608-4898   00037   I   27-MAY-2007(EMI)   17-MAY-2008 (R PLANCE HORN   1-18GHz   3115   EMCO   9703-5148   000566   I   17-JUN-2007(EMI)   17-MAY-2008 (R PLANCE HORN   1-18GHz   3115   EMCO   0004-6123   00390   I   09-JUN-2007(EMI)   17-MAY-2008 (R PLANCE HORN   1-18GHz   3115   EMCO   0004-6123   00390   I   09-JUN-2007(EMI)   17-MAY-2008 (R PLANCE HORN   1-18GHz   3115   EMCO   0004-6123   00390   I   09-JUN-2007(EMI)   17-MAY-2008 (R PLANCE HORN   1-18GHz   3115   EMCO   0004-6123   00390   I   09-JUN-2007(EMI)   17-MAY-2008 (R PLANCE HORN   1-18GHz   3115   EMCO   0004-6123   00390   I   09-JUN-2007(EMI)   17-MAY-2008 (R PLANCE HORN   1-18GHz   30-100MHz   30-100MHz   30-100MHz   30-100MHz   30-100MHz   30-100MHz   30-100MHz   30-100MHz   3121C   EMCO   3824   00068   II   06-DEC-2007   INDUCTION COIL   50-60Hz   1000-4-8   C-S   N/A   00757   I   26-OCT-2008   ADJUSTABLE DIPOLE   30-100MHz   3121C   EMCO   1371   00756   I   09-NOV-2008   RE101 LOOP SENSOR   30Hz-100KHz   RE101-13.3cm   C-S   N/A   00818   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100KHz   RS101-4CM   C-S   N/A   00819   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100KHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100KHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100KHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100KHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100KHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100KHz   RS101-4CM   C-S   N/A   00820   II   00-763   I   25-OCT-2007   RED   NSG435   SCHAFFNER   001625   00762   I   06-FEB-2008   TS101 LOOP SENSOR   NSG435   SCHAFFNER										
RED-BLACK BILOG   30-2000MHz   JB1   SUNOL   A091604-2   01106   I   20-OCT-2008   RED-BROWN BILOG   30-2000MHz   JB1   SUNOL   A0032406   1218   I   04-AUG-2008   YELLOW HORN   1-18GHz   3115   EMCO   9608-4898   00037   27-MAY-2007(EMI)   BLACK HORN   1-18GHz   3115   EMCO   9703-5148   00056   I   17-JUN-2007(EMI)   17-MAY-2008 (R ORANGE HORN   1-18GHz   3115   EMCO   0004-6123   00390   I   09-JUN-2007(EMI)   17-MAY-2008 (R ORANGE HORN   1-18GHz   3115   EMCO   0004-6123   00390   I   09-JUN-2007(EMI)   17-MAY-2008 (R   HF (WHITE) HORN   18-26-SGHz   801-WLM   WAVELINE   00758   00758   I   26-AUG-2007   SMALL LOOP   104E-30MHz   PLA-130/A   ARA   1024   00755   I   22-FEB-2008   LARGE LOOP   20Hz-5MHz   6511   EMCO   9704-1154   00067   I   23-JAN-2008   ACTIVE MONOPOLE   30Hz-30MHz   3301B   EMCO   3824   00068   II   06-DEC-2007   INDUCTION COIL   50-60Hz   1000-4-8   C-S   N/A   00778   II   26-SEP-2007   ADJUSTABLE DIPOLE   30-1000MHz   3121C   EMCO   1370   00755   I   26-OCT-2008   ABJUSTABLE DIPOLE   30-1000MHz   3121C   EMCO   1370   00756   I   09-NOV-2008   RE101 LOOP SENSOR   30Hz-100kHz   RE101-13.30M   C-S   N/A   00818   II   22-MAR-2009   RS101 RADIATING LOOP   30Hz-100kHz   RE101-13.30M   C-S   N/A   00819   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00819   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00819   II   22-MAR-2009   RS101 RADIATING LOOP   SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00820   II   32-OCT-2007   RED   N/S6435   SCHAFFNER   001625   00762   I   06-FEB-2008   T-S   00762   I   06-							ï	00 0011		
RED-BROWN BILOG   30-2000MHz   JB1   SUNOL   A0032406   1218   I   04-AUG-2008   YELLOW HORN   1-18GHz   3115   EMCO   9608-4898   00037   I   27-MAY-2007(EMI)   BLACK HORN   1-18GHz   3115   EMCO   9703-5148   00056   I   17-JUN-2007(EMI)   17-MAY-2008 (R   ORANGE HORN   1-18GHz   3115   EMCO   0004-6123   00390   I   09-JUN-2007(EMI)   17-MAY-2008 (R   ORANGE HORN   1-18GHz   3115   EMCO   0004-6123   00390   I   09-JUN-2007(EMI)   17-MAY-2008 (R   HF (WHITE) HORN   18-26.5GHz   801-WLM   WAVELINE   00758   00758   I   26-AUG-2007   SMALL LOOP   10/RH2-30MHz   PLA-130/A   ARA   1024   00755   I   22-FEB-2008   LARGE LOOP   20Hz-5MHz   6511   EMCO   9704-1154   00067   I   23-JAN-2008   ACTIVE MONOPOLE   30Hz-30MHz   3301B   EMCO   3824   00068   II   06-DEC-2007   INDUCTION COIL   50-60Hz   1000-4-8   C-S   N/A   00778   II   26-SEP-2007   ADJUSTABLE DIPOLE   30-1000MHz   3121C   EMCO   1371   00756   I   26-OCT-2008   ADJUSTABLE DIPOLE   30-1000MHz   3121C   EMCO   1371   00756   I   09-NOV-2008   RE101 LOOP SENSOR   30Hz-100KHz   RE101-13.3cm   C-S   N/A   00818   II   22-MAR-2009   RS101 RADIATING LOOP   30Hz-100KHz   RS101-4cm   C-S   N/A   00819   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100KHz   RS101-4cm   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100KHz   RS101-4cm   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100KHz   RS101-4cm   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100KHz   RS101-4cm   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100KHz   RS101-4cm   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100KHz   RS101-4cm   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100KHz   RS101-4cm   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   N/A   C-S   010-6762   I   06-FEB-2008   TS   006678   I   06-FEB-2008   TS   006678   I   06-FEB-2008   TS   006678   I   06-FEB-2008   TS   006678   II   06-FEB-2008   TS   006678   II   06-FEB-2008   TS   006678   II   006678   II   0							i			
YELLOW HORN							i			
BLACK HORN							i		-	
ORANGE HORN							i	17ILIN-2		, ,
HF (WHITE) HORN   18-26.5GHz   801-WLM   WAVELINE   00758   00758   1   22-AUG-2007   SMALL LOOP   10kHz-30MHz   PLA-130/A   ARA   1024   00755   1   22-FEB-2008   LARGE LOOP   20Hz-5MHz   6511   EMCO   9704-1154   00067   1   23-JAN-2008   ACTIVE MONOPOLE   30Hz-30MHz   3301B   EMCO   3824   00068   II   06-DEC-2007   INDUCTION COIL   50-60Hz   1000-4-8   C-S   N/A   00778   II   26-SEP-2007   ADJUSTABLE DIPOLE   30-1000MHz   3121C   EMCO   1370   00757   1   26-OCT-2008   ADJUSTABLE DIPOLE   30-1000MHz   3121C   EMCO   1371   00756   1   09-NOV-2008   RE101 LOOP SENSOR   30Hz-100kHz   RE101-13.3cm   C-S   N/A   00818   II   22-MAR-2009   RS101 RADIATINO LOOP   30Hz-100kHz   RS101-12CM   C-S   N/A   00819   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00820   II   06-FEB-2008   RS101-4CM   C-S   N/A   00820   II   06-FEB-2008   RS101-4CM   C-S   N/A   00820   II   06-FEB-2008   RS101-4CM   RS101-							i			,
SMALL LOOP							i	00 0011 2		,
LARGE LOOP	'						i			
ACTIVE MONOPOLE   30Hz-30MHz   3301B   EMCO   3824   00068   II   06-DEC-2007     INDUCTION COIL   50-60Hz   1000-4-8   C-S   N/A   00778   II   26-SEP-2007     ADJUSTABLE DIPOLE   30-1000MHz   3121C   EMCO   1370   00757   I   26-OCT-2008     ADJUSTABLE DIPOLE   30-1000MHz   3121C   EMCO   1371   00756   I   09-NOV-2008     RE101 LOOP SENSOR   30Hz-100KHz   RE101-13.3cm   C-S   N/A   00818   II   22-MAR-2009     RS101 RADIATING LOOP   30Hz-100KHz   RS101-12CM   C-S   N/A   00819   II   22-MAR-2009     RS101 LOOP SENSOR   30Hz-100KHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009     RS101 LOOP SENSOR   30Hz-100KHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009     EFT							i			
INDUCTION COIL   50-60Hz   1000-4-8   C-S   N/A   00778   II   26-SEP-2007							ii			
ADJUSTABLE DIPOLE   30-1000MHz   3121C   EMCO   1370   00757   1   26-OCT-2008										
ADJUSTABLE DIPOLE   30-1000MHz   3121C   EMCO   1371   00756   I   09-NOV-2008   RE101 LOOP SENSOR   30Hz-100KHz   RE101-13.3CM   C-S   N/A   00818   II   22-MAR-2009   RS101 RADIATING LOOP   30Hz-100KHz   RS101-12CM   C-S   N/A   00819   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100KHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100KHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100KHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   N/A   C-S   01   00794   II   06-FEB-2008   RS101-4CM   C-S   N/A   N/A   RSET   CAT   CALIBRATION DUE   CA							ï			
RE101 LOOP SENSOR   30Hz-100kHz   RE101-13.3cm   C-S   N/A   00818   II   22-MAR-2009   RS101 RADIATING LOOP   30Hz-100kHz   RS101-12CM   C-S   N/A   00819   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   30Hz-100kHz   RS101-4CM   C-S   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   N/A   00820   II   22-MAR-2009   RS101 LOOP SENSOR   N/A   C-S   01   00794   II   06-FEB-2008   N/A   C-S   01   00794   II   06-FEB-2008   N/A   C-S   01   00794   II   06-FEB-2008   RS101 LOOP SENSOR   N/A   SET   CAT   CALIBRATION DUE   C							i			
R\$101 RADIATING LOOP   30Hz-100kHz   R\$101-12CM   C-S   N/A   00819   II   22-MAR-2009   R\$101 LOOP SENSOR   30Hz-100kHz   R\$101-4CM   C-S   N/A   00820   II   22-MAR-2009   22-MAR-2009   R\$101 LOOP SENSOR   30Hz-100kHz   R\$101-4CM   C-S   N/A   00820   II   22-MAR-2009   R\$101 LOOP SENSOR   R\$101-4CM   C-S   N/A   00820   II   R\$102-MAR-2009   R\$102-MAR-2009							ń			
R\$101 LOOP SENSOR   30Hz-100kHz   R\$101-4CM   C-S   N/A   00820   II   22-MAR-2009										
EFT DIRECT COUPLING CAP         N/A         C-S         01         00794         II         06-FEB-2008           ESD GENERATORS         MN         MFR         SN         ASSET         CAT         CALIBRATION DUE           GREEN         NSG435         SCHAFFNER         000839         00763         I         25-OCT-2007           RED         NSG435         SCHAFFNER         001625         00762         I         06-FEB-2008           YELLOW         930D         ETS         201         00673         I         18-AUG-2007           MULTIFUCTIONING SYSTEMS         MN         MFR         SN         ASSET         CAT         CALIBRATION DUE           BLUE BESTEMC-2         711-1100         SCHAFFNER         199824-002SC         00117         II         OUT FOR SERVICE										
EFT DIRECT COUPLING CAP         N/A         C-S         01         00794         II         06-FEB-2008           ESD GENERATORS         MN         MFR         SN         ASSET         CAT         CALIBRATION DUE           GREEN         NSG435         SCHAFFNER         000839         00763         I         25-OCT-2007           RED         NSG435         SCHAFFNER         001625         00762         I         06-FEB-2008           YELLOW         930D         ETS         201         00673         I         18-AUG-2007           MULTIFUCTIONING SYSTEMS         MN         MFR         SN         ASSET         CAT         CALIBRATION DUE           BLUE BESTEMC-2         711-1100         SCHAFFNER         199824-002SC         00117         II         OUT FOR SERVICE			MANI	N 4		011		10057	0:-	04115515515
ESD GENERATORS         MN         MFR         SN         ASSET         CAT         CALIBRATION DUE           GREEN         NSG435         SCHAFFNER         000839         00763         I         25-OCT-2007           RED         NSG435         SCHAFFNER         001625         00762         I         06-FEB-2008           YELLOW         930D         ETS         201         00673         I         18-AUG-2007           MULTIFUCTIONING SYSTEMS         MN         MFR         SN         ASSET         CAT         CALIBRATION DUE           BLUE BESTEMC-2         711-1100         SCHAFFNER         199824-002SC         00117         II         OUT FOR SERVICE										
GREEN RED NSG435         SCHAFFNER SCHAFFNER PER NSG435         000839 00763 0762 0762 0766         I 25-OCT-2007 0766           YELLOW 930D         ETS         201 00673 1 18-AUG-2007           MULTIFUCTIONING SYSTEMS         MN         MFR         SN         ASSET         CAT         CALIBRATION DUE           BLUE BESTEMC-2         711-1100         SCHAFFNER         199824-002SC         00117         II         OUT FOR SERVICE										55 . 15 2000
RED YELLOW         NSG435 930D         SCHAFFNER ETS         001625 201 00673         I 06-FEB-2008 18-AUG-2007           MULTIFUCTIONING SYSTEMS         MN         MFR         SN         ASSET         CAT         CALIBRATION DUE           BLUE BESTEMC-2         711-1100         SCHAFFNER         199824-002SC         00117         II         OUT FOR SERVICE	ESD GENERATORS			MFR				Сат	(	
YELLOW         930D         ETS         201         00673         I         18-AUG-2007           MULTIFUCTIONING SYSTEMS         MN         MFR         SN         ASSET         CAT         CALIBRATION DUE           BLUE BESTEMC-2         711-1100         SCHAFFNER         199824-002SC         00117         II         OUT FOR SERVICE								I		
MULTIFUCTIONING SYSTEMS         MN         MFR         SN         ASSET         CAT         CALIBRATION DUE           BLUE BESTEMC-2         711-1100         SCHAFFNER         199824-002SC         00117         II         OUT FOR SERVICE		NS						1		
SYSTEMS  MIN MFR SN ASSET CAT CALIBRATION DUE  BLUE BESTEMC-2 711-1100 SCHAFFNER 199824-002SC 00117 II OUT FOR SERVICE	RED		ממי				ഗാ			1/1-HINT-/III/
SYSTEMS         BLUE BESTEMC-2         711-1100         SCHAFFNER         199824-002SC         00117         II         Out for Service	RED		60D	E15	201			· ·		10 7100 2007
	RED YELLOW MULTIFUCTIONING	93						<u>'</u>	CALIBRA	
RED BESTEMC-2 711-1100 SCHAFFNER 200122-074SC 00623 II 13-APR-2008 (SURGE / EFT) / 17-APR-2008	RED YELLOW  MULTIFUCTIONING SYSTEMS	93 MN	MFR	SN	Asset	Сат				ATION DUE



										_	
MODULA 600	00 M	ODULA 6000	SCHAFFNER			DEI	MO	II	09-J <i>A</i>	AN-2008 (SURC	GE) / 10-JAN-2008 (EFT)
EMC PRO PL	.US EM	CPRO PLUS	<b>K</b> EYTEK	06	608208	REN	ITAL	II		17-MAY	'-2008 (EFT)
EMC PRO	E	MC PRO	<b>K</b> EYTEK	00	005292	REN	ITAL	II	04-J	AN-2008 (Surc	GE) / 17-JAN-2008 (EFT)
USC 500-N	ıl us	SC 500 M6B	EMTEST	V06	16101357	DE	MO	II		09-JAN-2	2008 (Surge)
CHAMBERS AND	STRIPLINE	MN	l		MFR		SN	ASSET	CAT	г С	ALIBRATION DUE
RFI 1 CHA	AMBER	3 METER C	OMPACT	Р	ANASHIELI	)	N/A	00797	II		20-APR-2008
RFI 2 CHA	AMBER	04' x 07' SHIELD	ING SYSTEM	I	LINDGREN		13329	00795	II		04-FEB-2008
RFI 3 STR	IPLINE	N/A	١		C-S		N/A	00796	III		NA
ENVIRONMENT	AL (SAFETY)	ECL	.5	E	B-M-A Inc.		2041	00029	I		03-JAN-2008
ENVIRONMENT	AL (SAFETY)	SGTH-	31S		3-M-A Inc.		2245	00321	<u> </u>		03-JAN-2008
AMPLIFIERS	RANGE	MN	MFR		SN	ASSET	Сат			CALIBRATION	DUE
RED	0.5-1000MHz	10W1000B	AR	1	18708	00032	II			28-JAN-2008 (	(RFI1)
GREEN	0.5-1000MHz	10W1000B	AR	2	23423	00123	II			04-FEB-2008 (	(RFI2)
BLUE	0.01-250MHz	75A250	AR	1	19165	00039	II		03-NO	V-2007 (NEBS	& EÚ CRFI)
BLACK	0.01-250MHz	75A250	AR	2	23411	00122	II	29-DEC	-2007 (NE	BS & EU CRF	I) / 20-APR-2008 (RFI1)
ORANGE	0.01-250MHz	z 75A250	AR	2	26827	00367	II	16-MA	Y-2008 (E	U CRFI)/ 18-M	AY-2008 (NEBS CRFI)
BROWN 150W	0.1-250MHz	150A250	AR	3	13454	1255	II			04-FEB-2008 (	(RFI2)
GTC 1-2.6	1.0-2.6 GHz	GRF5016A	GTC		1221	RENTAL	II			16-MAY-20	008
HUGHES 10W	2.0-4.0GHz	1177H01	Hughes		055	RENTAL	II			16-MAY-20	800
HUGHES 10W	4.0-8.0GHz	8010H02F	Hughes		240	RENTAL	II			16-MAY-20	800
HUGHES 10W	8-10.0GHz	80108	Hughes		138	RENTAL	II			17-MAY-20	
HP495A	7.0-10.0GHz		HP		4-00237	00086	II		Ou	TOF SERVICE	(SPARE)
AUDIO AMP	AUDIO FREQ	MPA-200	RADIO SHACE		00438	NONE	Ш			NA	
AUDIO AMP	Audio Freq	MPA-200	RADIO SHACE	< 7	08545	00862	III			NA	
FIELD F	PROBES	Range	N	1N	MF	3	SN		ASSET	Сат	CALIBRATION DUE
Ri	ΞD	0.01-1000	лнz HI-4	1422	HOLAI	DAY	90369		00031	I	23-MAR-2008
GRI	EEN	0.01-1000	/IHz HI-4	4422	HOLAI	DAY	97363		00136	I	25-JUL-2007
BL	UE	0.01-1000	/IHz HI-4	4422	HOLAI	DAY	95696		01100	I	OUT OF CAL
MICROWAVE S	URVEY METER	2450MH	z HI-	1501	HOLA	DAY	0007546	64	1244		09-JAN-2008
SIGNAL GENE	RATORS	RANGE	MN		MFR		SN		ASSET	Сат	CALIBRATION DUE
RED		0.09-2000MHz	HP8648B	3	Agilent	t	3847U0	2192	00366	1	03-APR-2008
BLUE		0.1-1000MHz	HP8648A		Agilent		3426A0	0548	00034	1	23-AUG-2007
GREEN	N	0.09-2000MHz	HP8648B	3	Agilent	t	3623A0	2072	00125	1	16-OCT-2007
ORANG	E	0.1-1000MHz	HP8648B	3	Agilent	t	3537A0	1210	00025	1	29-JUN-2007
Brown	N	0.01Hz-15MHz	HP33120/	4	Agilent	t	US3601	6621	1211	1	OUT OF SERVICE
WHITE	<b>=</b>	0.01Hz-15MHz	HP33120/	4	Agilent	t	US3604	8143	1219	I	OUT OF CAL
Brown-W	/HITE	0.01Hz-15MHz	HP33120/		Agilent		SG4001		1232	1	10-NOV-2007
BLUE-WH	HITE	0.1Hz-13MHz	HP3312A	١	Agilent	t	1432A0	7632	00775	I	21-MAR-2008
SWEEP	ER	0.01-20.0GHz	HP83752/	4	Agilent	t	3610A0	1133	00087	II	08-MAY-2008
AM/FM STEREO	SIG. GEN.	0.1-170MHz	LG3236		LEADER	₹	36873	301	00959	I	10-OCT-2008
IMPULSE GENI	ERATOR	1-100Hz	CIG-25	<u>EL</u>	ECTRO-ME	TRICS	290	)	00942	<u> </u>	05-AUG-2007
BULK INJECTI	ON <b>C</b> LAMPS	RANGE	MN	MFR	SN	ASSET	САТ			CALIBRATION	I DUE
GREEN (NEI		0.01-100MHz	95236-1	ETS	50215	00118	ll l	03-NOV-	2007(BLUE)	29-DEC-2007(B	BLK) 18-MAY-2008(ORANGE)
GREEN (El	J CRFI) <sup>´</sup>	0.10-100MHz	95236-1	ETS	50215	00118	ll .	03-NOV-	2007(BLUE)	29-DEC-2007(B	BLK) 16-MAY-2008(ORANGE)
RED (NEB	S CRFÍ)	0.01-100MHz	95236-1	ETS	34026	1020	II	07-NOV-	2007(BLUE)	29-DEC-2007(B	BLK) 18-MAY-2008(ORANGE)
RED (EU	CRFI)	0.10-100MHz	95236-1	ETS	34026	1020	II	06-NOV-	2007(BLUE)	02-JAN-2008(B	LK) 16-MAY-2008(ORANGE)
BLUE (RTCA	/DO-160E)	2-450MHz	9142-1N	SOLAR	063824	1237	II				
RENT	AL	2-450MHz	9142-1N	SOLAR	008508	RENTAL	. II			10-AUG-20	007
ANSI	T1.315	MN	MFR	SN	As	SET	CA	Т		Calibrati	ON DUE
SBC No	ISE CART		C-S				III		CA	ALIBRATION NO	OT REQUIRED
SBC TRAN	ISIENT CART		C-S				III		WAVE	SHAPE VERIF	TED BEFORE USE
Oscill	.OSCOPES	N	1N	M	FR		SN		ASSET	Сат	CALIBRATION DUE
	100MHz		3 220		RONIX		C036986		1166	I	25-APR-2008
	RENCE 1GHZ		684B		RONIX		B011287		RENTAL	i	03-APR-2008
	AFETY 100 MH		340		RONIX		B0112357		00737	i	03-OCT-2007
	и 100 MHz		645A		GILENT		3632045	2	00103	i	30-JUN-2007
				,							
CDN NETWOR	eks P	NGE N	IN MFR	Ass	SET CA	г			CALIBE	ATION DUE	
BLUE			M-3 C-S				NO\/-2007	(BLUE AN			6-MAY-2008 (ORANGE)
RED			M-3 C-S							. ,	6-MAY-2008 (ORANGE)
INED	0.10-	OUIVII IZ I JP	0-0	001	JU 11	00-1	7 2001	\~LUL AIV	, 20.DL	(DLN) I	5 2000 (ORANGE)



## IC ID 5407A-MERCURY4 FCC ID: QV5MERCURY4

								-	
YELLOW-BLACK	0.10-100MHz	15A M-3	C-S	00784	II C	3-NOV-2007 (BLUE A	мр) 29-DEC-	2007 (BLK)	16-MAY-2008 (ORANG
GREEN	0.10-100MHz	30A M-3	C-S	00779	II C	3-NOV-2007 (BLUE A	мр) 04-AUG-	·2007 (BLK)	16-MAY-2008 (ORANG
YELLOW	0.10-100MHz	30A M-5	C-S	00804	II	03-NOV-200	)7(BLUE AMP)	16-MAY-2	2008 (ORANGE)
Brown	0.10-100MHz	M-3	C-S	1169					16-MAY-2008 (ORANG
BROWN-WHITE	0.10-100MHz	M-3	C-S	1170		*	,	, ,	16-MAY-2008 (ORANG
				-			•	. ,	,
BROWN-BLACK	0.10-100MHz	M-2 (DC		1171		*	,	, ,	16-MAY-2008 (ORANG
RED-BLACK	0.10-100MHz	M-2 (DC		1177					16-MAY-2008 (ORANG
GREEN-WHITE	0.10-100MHz	M-2 (DC	) C-S	1259	II C	)3-NOV-2007 (BLUE A	мр) 29-DEC-	·2007 (BLK)	16-MAY-2008 (ORANG
YELLOW (RES)	0.10-100MHz	100Ω RESISTOR	C-S	00810	II (	04-NOV-2007(BLUE A	мр) 16-МАҮ-	-2008 (ORA	NGE) 02-JAN-2008(BL
GREEN (RES)	0.10-100MHz	100Ω RESISTOR	C-S	1172	II (	03-NOV-2007(BLUE A	мр) 16-МАҮ-	-2008 (ORA	NGE) 02-JAN-2008(BL
RMS VOLTMETER	RS/CURRENT CLA	MP	MN	Mnfr	₹	SN	ASSET	Сат	CALIBRATION D
TRUE-RMS	MULTIMETER		79III	FLUKE	Ē	71700298	00769	I	27-OCT-2007
TRUE RMS	MULTIMETER		179	FLUKE	Ē	89280616	1228	- 1	31-OCT-2007
	METER (REFERENC	:F)	177	FLUKE		83390024	00973	1	22-MAR-2008
	MULTIMETER	,_,	177	FLUKE		83390025	00974	i	22-MAR-2008
	LTIMETER (TELECOM)		177	FLUKE		83430419	00974	- ;	22-MAR-2008
	,								
AC/DC CU	RRENT PROBE		A622	TEKTRO	NIX (	08DD 6275Dv	1246	<u> </u>	31-JAN-2008
Surge (	GENERATORS		MN		MFR	SN	ASSET	Сат	CALIBRATION DU
TRANSIENT WA	AVEFORM MONITOR		TWM-5		CDI	003982	00323	II	05-JUN-2007
	JRGE GENERATOR		M5		CDI	003966	00324	ii	CAL BEFORE US
	E COUPLING NWK		3CN		CDI	003455	00324	ii	CAL BEFORE US
	PLUGIN MODULE		2x50uS Pı		CDI	N/A	00842	II	CAL BEFORE US
10x160∪S I	PLUGIN MODULE	10	X160uS Pi	LUGIN	C-S	N/A	00843	II	CAL BEFORE US
10x560uS I	PLUGIN MODULE	10	0x560uS Pi	LUGIN	C-S	N/A	00841	II	CAL BEFORE US
PSURGE CON	TROLLER MODULE	F	PSURGE 8	000	HAEFELY	150267	00879	II	06-JUN-2007
	COUPLING MODULE		PCD 900		HAEFELY	149213	00880	ii	06-JUN-2007
	SE MODULE		PIM 900		HAEFELY	149202	00881	II	06-JUN-2007
HIGH VOLTAGE CA	AP NWK 5KVDC, 18	βμF	CS-HVC	С	C-S	01	00772	II	14-JUN-2008
NEBS Sur	GE GENERATOR		N/A		C-S	N/A	88000	II	18-OCT-2007
2x10uS Sur	RGE GENERATOR		2x10uS	}	C-S	N/A	00846	II	06-JUN-2007
	JRGE GENERATOR		10x700u		C-S	N/A	00847	ii	08-JUN-2007
	RESISTOR MODUL	_	N/A	O	C-S	N/A	00768	ii	18-OCT-2007
				0.00					
	S 500-M	1	SS 500 M1		EMTEST	V0502100032	1155	II	CAL BEFORE US
	S 500-M		TSS500 M	110	EMTEST	V0502100031	1156	II	CAL BEFORE US
SCHAFFNER 2050	1.2x50 GENERAT	OR	2050	S	CHAFFNER	8	<b>D</b> EMO	<u>II</u>	09-JAN-2008
Power/N	OISE METERS		MN	MFI	P.	SN	ASSET	Сат	CALIBRATION DU
	R METER		435B	HP		2445A11012	00773		03-APR-2008
								!	
	R METER		437B	HP		2912A01367	01099	I.	03-APR-2008
	R SENSOR		8481A	HP		2702A61351	00774	I	04-APR-2008
Psopi	HOMETER		2429	BRUEL &	KJAER	1237642	00585	II	23-FEB-2009
TRANSMISSION LI						1201012	00000		
	NE TESTER (DBRNO	C)	185T	AMR		18507030010	1236	ii	20-APR-2008
TRANSMISSION LI	NE TESTER (DBRNO NE TESTER (DBRNO		185T 185T	AMR AMR	EL				20-APR-2008
TRANSMISSION LI					EL EL	18507030010 998658	1236	П	20-APR-2008
OVERVOLTAGE (	NE TESTER (DBRNC	MN	185T MFR		EL EL	18507030010 998658	1236 00823 ASSET	II II CAT	20-APR-2008 OUT OF SERVICE CALIBRATION DU
<b>OVERVOLTAGE (</b> 2KW POWER FAUL	NE TESTER (DBRNC CHAMBERS T SIMULATOR	MN OV1	MFR C-S		EL EL S	18507030010 998658 SN I/A	1236 00823 ASSET 00792	II II CAT	20-APR-2008 OUT OF SERVICE CALIBRATION DU N/A
OVERVOLTAGE (	NE TESTER (DBRNC CHAMBERS T SIMULATOR	MN	185T MFR		EL EL S	18507030010 998658	1236 00823 ASSET	II II CAT	20-APR-2008 OUT OF SERVICE CALIBRATION DU
<b>OVERVOLTAGE (</b> 2KW POWER FAUL	NE TESTER (DBRNC CHAMBERS T SIMULATOR IMULATOR	MN OV1	MFR C-S		EL EL S N	18507030010 998658 SN I/A	1236 00823 ASSET 00792	II II CAT	20-APR-2008 OUT OF SERVICE CALIBRATION DU N/A N/A
OVERVOLTAGE ( 2KW POWER FAUL POWER FAULT S DIPOLE TAPE N	NE TESTER (DBRNC CHAMBERS T SIMULATOR IMULATOR MEASURES	MN OV1 OV2	MFR C-S C-S	AMR	EL EL S N	18507030010 998658 SN J/A J/A SN	1236 00823 ASSET 00792 00116	CAT III III CAT	20-APR-2008 OUT OF SERVICE  CALIBRATION DU  N/A  N/A  CALIBRATION DU
<b>OVERVOLTAGE (</b> 2KW POWER FAUL POWER FAULT S	NE TESTER (DBRNC CHAMBERS T SIMULATOR IMULATOR EASURES E#1	MN OV1 OV2	MFR C-S C-S	AMR	EL EL S N N	18507030010 998658 SN I/A I/A	1236 00823 ASSET 00792 00116	CAT	20-APR-2008 OUT OF SERVICE  CALIBRATION DU N/A N/A  CALIBRATION DU 22-MAR-2009
OVERVOLTAGE ( 2KW POWER FAUL POWER FAULT S  DIPOLE TAPE N 26FT TAPE 26FT TAPE	NE TESTER (DBRNC CHAMBERS T SIMULATOR IMULATOR EASURES E #1 E #2	MN OV1 OV2 MN 2338CM	MFR C-S C-S	AMR  MFI  LUFK	EL EL S N N R R KIIN KIIN	18507030010 998658 SN I/A I/A SN C3166-1 C3166-2	1236 00823 ASSET 00792 00116 ASSET 00776 00777	CAT III III CAT III III	20-APR-2008 OUT OF SERVICE  CALIBRATION DU N/A N/A  CALIBRATION DU 22-MAR-2009 22-MAR-2009
OVERVOLTAGE ( 2KW POWER FAUL POWER FAULT S  DIPOLE TAPE N 26FT TAPE 26FT TAPE	CHAMBERS T SIMULATOR IMULATOR EASURES E #1 E #2 DGICAL METERS	MN OV1 OV2 MN 2338CM 2338CM	MFR C-S C-S	MFI LUFK LUFK	EL EL S N N R R KIN KIN	18507030010 998658 SN I/A I/A SN C3166-1 C3166-2	1236 00823 ASSET 00792 00116 ASSET 00776 00777	CAT III III CAT III	20-APR-2008 OUT OF SERVICE  CALIBRATION DU N/A N/A  CALIBRATION DU 22-MAR-2009 22-MAR-2009 CALIBRATION DU
OVERVOLTAGE ( 2KW POWER FAULT POWER FAULT S  DIPOLE TAPE N 26FT TAPE 26FT TAPE	CHAMBERS T SIMULATOR IMULATOR EASURES E #1 E #2 DGICAL METERS	MN OV1 OV2 MN 2338CM 2338CM	MFR C-S C-S	MFI LUFK LUFK	EL EL S N N R R KIIN KIIN	18507030010 998658 SN I/A I/A SN C3166-1 C3166-2	1236 00823 ASSET 00792 00116 ASSET 00776 00777	CAT III III CAT III III	20-APR-2008 OUT OF SERVICE  CALIBRATION DU N/A N/A  CALIBRATION DU 22-MAR-2009 22-MAR-2009 CALIBRATION DU
OVERVOLTAGE ( 2KW POWER FAULT S POWER FAULT S  DIPOLE TAPE N 26FT TAPE 26FT TAPE METEOROLO  TEMP./HUMIDITY/A	CHAMBERS T SIMULATOR IMULATOR EASURES E #1 E #2 DGICAL METERS	MN OV1 OV2 MN 2338CM 2338CM	MFR C-S C-S	MFI LUFK LUFK	EL EL S N N R R KIN KIN	18507030010 998658 SN I/A I/A SN C3166-1 C3166-2	1236 00823 ASSET 00792 00116 ASSET 00776 00777	CAT III III  CAT III III  CAT CAT	20-APR-2008 OUT OF SERVICE  CALIBRATION DU N/A N/A  CALIBRATION DU 22-MAR-2009 22-MAR-2009 CALIBRATION DU
OVERVOLTAGE ( 2KW POWER FAULT S POWER FAULT S  DIPOLE TAPE N 26FT TAPE 26FT TAPE 26FT TAPE ( METEOROLO TEMP./HUMIDITY/A* TEMPERATURE	CHAMBERS T SIMULATOR IMULATOR E #1 E #2 DGICAL METERS TM. PRESSURE GAU /HUMIDITY GAUGE	MN OV1 OV2 MN 2338CM 2338CM	MFR C-S C-S  E B MN 0 PERCEPTIO THG-912	MFI LUFK LUFK	EL EL S N N N R KIIN MFR DAVIS	18507030010 998658 SN I/A I/A I/A SN C3166-1 C3166-2 SN N/A 4000562	1236 00823 ASSET 00792 00116 ASSET 00776 00777 ASSET 00965 00789	CAT III III  CAT III III  CAT CAT	20-APR-2008 OUT OF SERVICE  CALIBRATION DL N/A N/A  CALIBRATION DL 22-MAR-2009 22-MAR-2009 CALIBRATION DL 09-FEB-2009 31-JAN-2009
OVERVOLTAGE ( 2KW POWER FAULT S POWER FAULT S  DIPOLE TAPE N 26FT TAPE 26FT TAPE 26FT TAPE ( METEOROLO TEMP./HUMIDITY/A* TEMPERATURE	CHAMBERS T SIMULATOR IMULATOR ##1 ##2 ##2 ##1 ##2 ##1 ##2 ##1 ##1 ##2 ##1 ##1	MN OV1 OV2 MN 2338CM 2338CM	MFR C-S C-S  E MN 0 PERCEPTIO	MFI LUFK LUFK	EL EL S N N N R KIIN MFR DAVIS HUGER	18507030010 998658 SN I/A I/A I/A SN C3166-1 C3166-2 SN N/A 4000562	1236 00823 ASSET 00792 00116 ASSET 00776 00777 ASSET 00965	CAT III III  CAT III III  CAT CAT	20-APR-2008 OUT OF SERVICE  CALIBRATION DU N/A N/A  CALIBRATION DU 22-MAR-2009 22-MAR-2009 CALIBRATION DU 09-FEB-2009 31-JAN-2009
OVERVOLTAGE OF TAPE IN TEMPERATURE OF TAPE OF TAPE OF TAPE OF TAPE OF TAPE OF TEMPERATURE	NE TESTER (DBRNO CHAMBERS T SIMULATOR IMULATOR  MEASURES E #1 E #2  DGICAL METERS TM. PRESSURE GAL (HUMIDITY GAUGE ( (PRESSURE ONLY	MN OV1 OV2 MN 2338CM 2338CM	MFR C-S C-S  MN 0 PERCEPTIO THG-912 BA928	MFI LUFK LUFK ON II	EL EL S N N N R KIIN MFR DAVIS HUGER GON SCIENT	18507030010 998658 SN I/A I/A I/A SN C3166-1 C3166-2 SN N/A 4000562 C3166-1 STOCK/MN	1236 00823 ASSET 00792 00116 ASSET 00776 00777 ASSET 00965 00789	CAT III III  CAT III III  CAT CAT	20-APR-2008 OUT OF SERVICE  CALIBRATION DL N/A N/A  CALIBRATION DL 22-MAR-2009 22-MAR-2009  CALIBRATION DL 09-FEB-2009 31-JAN-2009 08-FEB-2009
OVERVOLTAGE OF TAPE NOT SHOW THE POWER FAULT SET TAPE NOT SHOW THE POWER FAULT SET TAPE NOT SHOW THE POWER TEMPERATURE WEATHER CLOCK	CHAMBERS T SIMULATOR IMULATOR  ###################################	MN OV1 OV2 MN 2338CM 2338CM	MFR C-S C-S  E  MN 0 PERCEPTIO THG-912 BA928	MFI LUFK LUFK	EL EL S N N N R KIIN MFR DAVIS HUGER GON SCIENT	18507030010 998658 SN I/A I/A I/A SN C3166-1 C3166-2 SN N/A 4000562 C3166-1	ASSET 00792 00116  ASSET 00776 00777  ASSET 00965 00789 00831	CAT III III CAT III III III CAT II III III	20-APR-2008 OUT OF SERVICE  CALIBRATION DL N/A N/A  CALIBRATION DL 22-MAR-2009 22-MAR-2009 CALIBRATION DL 09-FEB-2009 31-JAN-2009

**REPORT: EH0614-1** 

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



## **Conditions Of Testing**

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

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

  13. CLIENT SHALL, EXCEPT TO THE EXTENT OF COMPANY'S LIABILITY TO CLIENT HEREUNDER (WHICH IN NO EVENT SHALL EXCEED THE LIMITATION OF LIABILITY HEREIN), HOLD HARMLESS AND INDEMNIFY THE COMPANY, ITS AFFILIATES AND THEIR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST ALL ACTUAL OR ALLEGED THIRD PARTY CLAIMS FOR LOSS, DAMAGE OR EXPENSE OF WHATSOEVER NATURE AND



HOWSOEVER ARISING FROM OR RELATING TO (i) THE PERFORMANCE, PURPORTED PERFORMANCE OR NON-PERFORMANCE OF ANY SERVICES BY THE COMPANY OR (ii) THE SALE, RESALE, MANUFACTURE, DISTRIBUTION OR USE OF ANY TESTED GOODS.

- 14. EXCEPT AS MAY OTHERWISE BE EXPRESSLY AGREED TO IN WRITING BY THE COMPANY AND NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN OR IN ANY TEST REPORT, NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE. IS MADE.
- 15. (A) IN NO EVENT WHATSOEVER SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, EXEMPLARY OR PUNITIVE DAMAGES IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE TEST REPORT OR THE SERVICES PROVIDED BY THE COMPANY HEREUNDER, INCLUDING WITHOUT LIMITATION LOSS OF OR DAMAGE TO PROPERTY; LOSS OF INCOME, PROFIT OR USE; OR ANY CLAIMS OR DEMANDS MADE AGAINST CLIENT OR ANY OTHER PERSON BY ANY THIRD PARTY IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE SERVICES PROVIDED BY THE COMPANY HEREUNDER.
- (B)NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN, AND IN RECOGNITION OF THE RELATIVE RISKS AND BENEFITS TO CLIENT AND THE COMPANY ASSOCIATED WITH THE TESTING SERVICES CONTEMPLATED HEREBY, THE RISKS HAVE BEEN ALLOCATED SUCH THAT UNDER NO CIRCUMSTANCES WHATSOEVER SHALL THE LIABILITY OF THE COMPANY TO CLIENT OR ANY THIRD PARTY IN RESPECT OF ANY CLAIM FOR LOSS, DAMAGE OR EXPENSE, OF WHATSOEVER NATURE OR MAGNITUDE, AND HOWSOEVER ARISING, EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF THE FEES PAID TO THE COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM OR U.S.\$10,000, WHICHEVER IS THE LESSER AMOUNT.
- 16. The Company shall not be liable for any loss or damage resulting from any delay or failure in performance of its obligations hereunder resulting directly or indirectly from any event of force majeure or any event outside the control of the Company. If any such event occurs, the Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client.
- 17. Company's services, including these Conditions, shall be governed by, and construed in accordance with, the local laws of the country where the Company performs the tests or, in the case of tests performed in the United States of America, the laws of Massachusetts without regard to conflicts of laws principles. If any aspect(s) of these Conditions is found to be illegal or unenforceable, the validity, legality and enforceability of all remaining aspects of these Conditions shall not in any way be affected or impaired thereby. Any proceeding related to the subject matter hereof shall be brought, if at all, in the courts of the country where the Company performs the tests or, in the case of tests performed in the United States of America, in the courts of Massachusetts. Client waives the right to interpose any counterclaim or setoffs of any nature in any litigation arising hereunder.

Rev.160009121(2) #684340 v13CS



## A2LA Accreditation

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

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

Valid until: July 31, 2007

Certificate Number: 1627.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following Electromagnetic Compatibility (EMC), Telecommunications, and Product 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/SNZS 3548; Canada ICES- 003; CNS13438; KN 22 (RRL No. 2005-82, September 29, 2005); CISPR 11; EM 55011; SABS CISPR 11; AS/NZS CISPR 11; AS/NZS 2064; Canada ICES-001; CNS13803; CISPR 13; EN 55013; SABS CISPR 13; AS/NZS CISPR 13; AS/NZS 1053; CISPR 14-1; EN 55014-1; SABS CISPR 14; AS/NZS CISPR 14; AS/NZS 1044; CNS 13439; CISPR 15; EN 55015; GR-1089- CORE; CSA C108.8-M1983;
Harmonics	EN 61000-3-2; AS/NZS 61000.3.2
Flicker	EN 61000-3-3; AS/NZS 61000.3.3

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

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

Family Product or Industry Specific Specifications including emissions and/or immunity	GR-1089-CORE: 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; GL-36;
Australia/New Zealand Radio Standards	AS/NZS 4268; AS/NZS 4771; RFS29; Radiocommunications (Data Transmission Equipment Using Spread Spectrum Modulation Techniques); Radiocommunications (Spread Spectrum Devices); Radiocommunications (Short Range Devices); Radiocommunications (Low Interference Potential Devices);

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Other Ra	dio Standards	RTTE 01 (DGT-Taiwan);	
FCC Star	ndards and Test methods Sup	port TCB Status	
FCC Scop	pe A – Unlicensed Radio Freque	ency Devices	
A1	1. 47 CFR Parts 11, 15	and 18	
	2. FCC MP-5,		
	3. ANSI C63.4-2003,		
A2	1. 47 CFR Part 15,		
	2. ANSI C63.4-2003,		
A3	1. 47 CFR Part 15,		
	<ol><li>ANSI C63.17-1998,</li></ol>		
	3. ANSI C63.4-2003,		
A4 1. 47 CFR Part 15,			
	2. ANSI C63.4-2003,		
FCC Scop	pe B – Licensed Radio Service E	Equipment	
B1	1. 47 CFR Parts 2, 22, 2	24, 25, and 27	
	2. ANSI/TIA-603-C (20	004)	
B2	1. 47 CFR Parts 2, 22, 7	74, 90, 95, and 97	
	2. ANSI/TIA-603-C (20	004)	
B3	1. 47 CFR Parts 2, 80, a	and 87	
	2. ANSI/TIA-603-C (20	004)	
B4	1. 47 CFR Parts 2, 21, 7	74, and 101	
	2. ANSI/TIA-603-C (20	004)	

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 21/18ABS 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 225/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	VCCLV-3 VCCLV-4

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

### Telecom Standards

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

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

to Prevent Harm to the Telephone Network Industry 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 S002-2001 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	<u>Title</u>	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
HKTA 2029	circuits at data rate of 1544 kbit/s Network connection specification for connection of		Analogue Public Switched Telephone Networks (PSTNs) of TE (excluding TE supporting the voice
11K17A 2027	CPE to the PTNs in Hong Kong using digital leased		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	TTD 04 4005	(DTMF) signaling
	Customer Premises Equipment (CPE) to the Public Telecommunications Network (PTN) in Hong Kong using	TBR 24: 1997	Business TeleCommunications (BTC); 34 Mbit/s Digital Unstructured and structured leased lines
	Digital Leased Circuits at nx64 kbit/s		(D34U and D34S); Attachment requirements for
HKTA 2031	Network Connection Specification for Connection of		Terminal equipment interface
	Customer Premises Equipment (CPE) to the Public	Taiwan standards (DGT) ADSL01	A
	Telecommunications Network (PTN) in Hong Kong using Digital Leased Circuits below 64 kbit/s	ADSL01	Asymmetric Digital Subscriber Line Terminal Equipment and POTS Splitter Technical Specifications
HKTA 2032	Network Connection Specification for Connection of	ID0002	DS1 Equipment Type Approval Guidelines
	Customer Premises Equipment (CPE) to the Public	IS6100	ISDN Terminal Equipment Technical Specifications
	Telecommunications Networks in Hong Kong using Asymmetric Digital Subscriber Lines (ADSL) based on ITU-T	PSTN01 (non-voice only)	Technical Specifications for Terminal Equipment for Connection to Public Switched Telephone Network
	Recommendation G.992.1	New Zealand standards	Connection to Public Switched Telephone Network
HKTA 2033	Network Connection Specification for Connection of	PTC 200 (non-voice only)	Requirements for Connection of Customer Equipment to
	Customer Premises Equipment (CPE) to Fixed		Analogue Lines
	Telecommunications Networks in Hong Kong using Splitterless Asymmetric Digital Subscriber Lines (ADSL)	PTC 217 TNA 117	Requirements for Bandwidth Management Devices Telecom 2048 kbit/s Standard Network Interface
	based on ITU-T Recommendation G.992.2	PTC 270	Interim arrangements for ADSL CPE
European standards			
TBR 1: 1995	Attachment requirements for terminal equipment to	Singapore Standards	
	Be connected to circuit switched data networks and	IDA TS ADSL	Type Approval Specification for Asymmetric Digital
	Leased circuits using a CCITT Recommendation X.21 interface, or at an interface physically,	IDA TS ADSL 2	Subscriber Line (Full-rate ADSL) Modems Type Approval Specification for Asymmetric Digital
	functionally and electrically compatible with CCITT		Subscriber Line Splitterless (G-Lite) Modems
	Recommendation X.21 but operating at any data	IDA TS DLCN 1	Type Approval Specification for Digital Interfaces based on
TBR 2: 1997	signaling rate up to, and including, 1 984 kbit/s Attachment requirements for Data Terminal		hierarchical bit rates of 2048 kbit/s, 34 368 kbit/s and 139 264 kbit/s
	Equipment (DTE) to connect to Packet Switched	IDA TS ISDN 1	Type Approval Specification for connection of Terminal
	Public Data Networks (PSPDNs) for CCITT		Equipment to Integrated Services Digital Network (ISDN)
	Recommendation X.25 interfaces at data signaling rates up to 1 920 kbit/s utilizing interfaces derived	IDA TS ISDN 2	Basic Access Type Approval Specification for connection of Terminal
	from CCITT Recommendations X.21 and X.21 bit	15/15/15DN 2	Equipment to Integrated Services Digital Network (ISDN)
TBR 3: 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN);		Primary Rate Access (PRA)
	Attachment requirements for terminal equipment to	IDA TS PSTN (non-voice only)	Type Approval Specification for connection of Terminal
TBR 4: 1995 + Amdt : 1997	connect to an ISDN using ISDN basic access Integrated Services Digital Network (ISDN);	South Africa standards	Equipment to Public Switched Telephone Network (PSTN)
1BR 4. 1993 + Alliut . 1997	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 requirements for terminal equipment interface		
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Product Safety		Product Safety Standards	Title
Product Safety General test methods:		Product Safety Standards 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*,	Limited current*, Capacitor Discharge / voltage	IEC 60825-1 2001 IEC 60825-2 2000-5	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems
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 CTD)*, 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*, Acce- measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTIP*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st 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*, Accemeasurement*, 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*, Implame*, Needle flame*, Hot flaming oil*, Lock	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*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer short/soverloads*, Rain test*, Was	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*,	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	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements
General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTIP*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st 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 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*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTIP*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st 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 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*,	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	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*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTIP*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st 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 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 CAN/CSA E335-1 1994 UL 61010A-1: 2002	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General
General test methods: Power inputs*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTIp*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Loch Torque*, Insulation resistance*, Sound level*, Transformer short/soverloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards	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 AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001	Classification, requirements and user's guide.  Safety of laser products – Part 2: Safety of optical communication systems  Safety of laser products – Part 4: Laser guards Performance standard for laser products  Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements  Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements
General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Loci Torque*, 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	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*, laying death short circuit 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 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment
General test methods: Power inputs*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTIp*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Loch Torque*, Insulation resistance*, Sound level*, Transformer short/soverloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards	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 / Omm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spilinge*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, al*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  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 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1:
General test methods: Power inputs*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition (CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str. Component abnormals*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loci Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Ut. 60950 2000 IEC 60950 1999 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*, puble*, Overvoltage*, Acoustic sound pressure*, 130mm / Omm 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*, al*, 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 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General
General test methods:  Power iputs*, Permanence of marking*, Accemeasurement*, 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*, Implame*, Needle flame*, Hot flaming oil*, Loci Torque*, 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  IEC 60950 1099  EN 60950 2000  IEC 60950 12001	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 60825-2 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements
General test methods: Power input*, Permanence of marking*, Accemeasurement*, 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*, Imflame*, Needle flame*, Hot flaming oil*, Loci 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	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 mount*, Laser radiation (excluding x-ray)*, Voltage surge*, al*, 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 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 Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and
General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Loct 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 LEC 60950 1999 EN 60950 2000 LEC 60950 1999 EN 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*, puble*, Overvoltage*, Acoustic sound pressure*, 130mm / Omm 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*, al*, 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 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	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements
General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Loci 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 UL 60950 2000 UL 60950 1999 EN 60950 2000 UL 60950-1 2001 UL 60950-1 2001 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03	Limited current*, Capacitor Discharge / voltage 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 CINCUID AM 21 - 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
General test methods: Power iputs", Permanence of marking", Accemeasurement", SELV circuits", TNV limits*, limitation*, Ring signal", Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loci 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 Elec 60950 2000 UL 60950 2000 USA C22, 20. 60950-10 UL 60950-1 2001 USA C22, 22, No. 60950-10 SEC 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 Chcluding 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 iputs*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signals*, Humidity condition (CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str. Component abnormals*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loci Torque*, 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 IEC 60950 1999 IEC 60950-1 2003 IEC 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 3 IEC 61010-1 1993 EN 61010-1 1993, 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*, 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*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 CINCUID AM 21 - 1997 & AM 12 - 1997) EN 60335-1 2001 UL 60335-1 1998 CAN'CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2004	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment - Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General
General test methods: Power inputs*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTly*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loci Torque*, 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 IEC 60950 1909 IEC 60950 1909 IEC 60950-1 2001 IEC 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 2003	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 CINCUID AM 21 - 1997 & AM 12 - 1997) EN 60335-1 2001 UL 60335-1 1998 CAN'CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2004	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment - Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Guipment - Part 1: General
General test methods: Power iputs", Permanence of marking", Accemeasurement", SELV circuits", TNV limits*, limitation*, Ring signal", Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loci 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 Elec 60950 2000 UL 60950 2000 USA C22, 20. 60950-10 UL 60950-1 2001 USA C22, 22, No. 60950-10 SEC 61010-1 1993	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 2000-5 IEC 60825-2 1907-11 21 CFR 1040.10 IEC 60335-1 1997 IEC 60335-1 1997 IEC 60335-1 1997 IEC 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2004  UL 60601-1: 2003	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Safety I: Collateral Standard: Safety Requirements For Safety   Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Requirements For Medical Electrical Expuipment Medical Electrical Equipment - Part 1: General Requirements For Safety - Section 1-1. Collateral
General test methods: Power iputs*, Permanence of marking*, Accemeasurement*, 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*, Implame*, Needle flame*, Hot flaming oil*, Loci 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 2000 IEC 60950 1099 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2)	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*, Dutput abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements.	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 1907-11 21 CFR 1040.10 IEC 60335-1 1997 IEC 60335-1 1997 IEC 60335-1 1997 IEC 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2004  UL 60601-1: 2003	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — 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 Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Standard: Safety Requirements For Medical Electrical
General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loc Orque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnormas upply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1999 IEC 60950 1999 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 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 2000-5 IEC 60825-2 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950: 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 Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Stystems
General test methods: Power iputs*, Permanence of marking*, Accemeasurement*, 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*, Implame*, Needle flame*, Hot flaming oil*, Loci 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 2000 IEC 60950 1099 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2)	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*, Dutput abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements.	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 1907-11 21 CFR 1040.10 IEC 60335-1 1997 IEC 60335-1 1997 IEC 60335-1 1997 IEC 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2004  UL 60601-1: 2003	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — 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 Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Standard: Safety Requirements For Medical Electrical
General test methods: Power iputs*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Loci 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 Elec 60950 2000 Elec 60950 1999 EN 60950 2000 Elec 60950 12003 CSA C22, 2No. 60950-00 CSA C22, 2No. 60950-103 Elec 61010-1 1993 EN 61010-1 1993, 2001 Elec 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) Elec 66061-1 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*, il*, 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  Medical electrical equipment. Part 1: General Requirements	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 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 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 — Part 1: General Requirements For Safety — Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Electrical Electrical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Electrical Electrical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements for Medical Electrical Electrical Electrical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements for Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements for Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements for Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements for Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements for Medical Electrical 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 Requirem
General test methods: Power inputs*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loci Torque*, 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 IEC 60950 1999 IEC 60950 1999 IEC 60950-1 2001 IEC 60950-1 2001 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 3 IEC 61010-1 1993 IEC 61010-1 1993, 2001 IEC 61010-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995 IEC 60601-1 1995 IEC 60601-1 1995 IEC 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 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950: 1: 2003 UL 61010-1: 2004 UL 60601-1: 2004 UL 60601-1: 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 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 iputs*, Permanence of marking*, Acce 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*, Imflame*, Needle flame*, Hot flaming oil*, Loci Torque*, 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 IEC 60950 1909 IEC 60950 1909 IEC 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1093 IEC 61010-1 1993 IEC 61010-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995 (Including AM 2) UL 2601-1 1997	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*, 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. Part 1: General requirements for safety. Medical electrical equipment Medical electrical equipment Part 1: General Requirements for safety. Medical electrical equipment. Part 1: General Requirements for safety. 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 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	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 Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus – Safety Requirements
General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold state Component abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Loci 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 ElEC 60950 1909 ElEC 60950 1909 ElEC 60950 12001 UL 60950 12001 UL 60950 12001 UL 60950 12001 ElEC 60950-1 2001 UL 60950-1 2003 ElEC 61010-1 1993 ElEC 61010-1 1993, 2001 ElEC 61010-1 1993, 2001 ElEC 61010-1 1999 (Including AM 2) UL 2601-1 1995 El 60601-1 1995 (Including AM 2) UL 2601-1 1997 IEC 60065 1998, 2000 ANSI/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*, Acoustic sound pressure*, 130mm / 2019 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*, 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.  Electrical equipment for laboratory use Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements.  Medical electrical equipment. Part 1: General requirements for safety.  Medical electrical equipment	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950: 1: 2003 UL 61010-1: 2004 UL 60601-1: 2004 UL 60601-1: 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 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 Audio, Video and Similar Electronic Apparatus – Safety Requirements Audio, Video and Similar Electronic Apparatus – Safety Requirements Audio, Video and Similar Electronic Apparatus – Safety Requirements
General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Moid st Component abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Loci 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 EEC 60950 1999 EN 60950 2000 EEC 60950 1999 EN 60950 2000 ECC 60950 12003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993, 2001 EEC 61010-1 1993, 2001 EEC 61010-1 1995 EN 60601-1 1995 EN 60601-1 1995 EN 60601-1 1995 EN 60606-1 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. Medical electrical equipment. Part 1: General Requirements for safety. Audio, video and similar electronic apparatus – Safety requirements Audio/video and similar electronic apparatus for Household, commercial and similar general use Australian/New Zealand	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950: 2000 UL 61010-1: 2001  SOM 1000	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems 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
General test methods: Power iputs*, Permanence of marking*, Accemeasurement*, 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*, Imflame*, Needle flame*, Hot flaming oil*, Loci 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 2000 IEC 60950 1099 EN 60950 2000 IEC 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 CXSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995 EN 60601-1 1995 (Including AM 2) IEC 60065 1998, 2000	Limited current*, Capacitor Discharge / voltage  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 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950: 12003 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 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 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 Standard: Safety Requirements For Medical Electrical Stystems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Safety of Machinery — Electrical Equipment of Machines
General test methods: Power iputs*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Loci 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 Elec 60950 2000 Elec 60950 1099 EN 60950 2000 Elec 60950 12003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993, 2001 Elec 61010-1 1993 EN 61010-1 1993 (Including AM 2) Elec 60601-1 1995 EN 606061-1 1997 Elec 60601-1 1995 EN 606061-1 1997 IEC 60606 1-1998 EN 60606-1098, 2000 ANSI/UL 6500: 1998 CANI/CSA 60065-00 CANI/CSA 60065-00	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. Part 1: General requirements for safety. Medical electrical equipment. Part 1: General Requirements for safety. Audio, video and similar electronic apparatus — Safety requirements Audio/video and musical instrument apparatus for Household, commercial and similar general use Australian/New Zealand Standard — Approval and test Specification — Mains operated electronic and related Equipment loveshold and similar	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-1 4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS./NZS 60950: 2000 EN 60950-1: 2001 AS./NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000  UL 60605: 2003 CSA 60065: 2003 IEC 60065: 2001 EN 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 Safety information technology Equipment — Safety — Part1: General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety — Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Electrical Electrical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements for Safety — Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Suddio, Video and Similar Electronic Apparatus — Safety Requirements Suddio, Video and Similar Electronic Apparatus — Safety Requirements Suddio, Video and Similar Electronic Apparatus — Safety Requirements Suddio, Video and Similar Electronic Apparatus — Safety Requirements
General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loci 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 Elec 60950 1909 EN 60950 2000 Elec 60950 12001 UL 60950-1 2001 UL 6010-1 1993 EN 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 2001 EEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 1995 EN 66061-1 1995 EN	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. Part 1: General requirements for safety.  Medical electrical equipment Medical electrical equipment 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 and similar electronic 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 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950: 2000 UL 61010-1: 2001  SOM 1000	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 — 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 — Part 1: General Requirements For Safety — Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment For Medical Electrical
General test methods: Power input*, Permanence of marking*, Acce 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*, Imflame*, Needle flame*, Hot flaming oil*, Loci 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 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 EN 61010-1 1993, 2001 IEC 61010-1 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 60601-1 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00 ASN/ZS 60065-00 ASN/ZS 60065-00 Canadian C22.2 No. 1-94 (1-98) 1994, 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*, 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*, 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.  Electrical 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	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-1 4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS./NZS 60950: 2000 EN 60950-1: 2001 AS./NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000  UL 60605: 2003 CSA 60065: 2003 IEC 60065: 2001 EN 60065: 2002 EN 60065: 2002 EN 60065: 2002	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part 1: General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety — Section 1-1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety — Section 1-1: Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment — Part 1: General Requirements For Safety — Section 1-1: Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Safety of Machinery — Electrical Equipment of Machines — Part 1: Specification for General Requirements Compliance Test Specification — Safety and Electrical Protection Requirements for Subscriber Equipment
General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loci 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 Elec 60950 1909 EN 60950 2000 Elec 60950 12001 UL 60950-1 2001 UL 6010-1 1993 EN 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 2001 EEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 1995 EN 66061-1 1995 EN	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*, 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.  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements.  Medical electrical equipment Medical electrica	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-1 4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS./NZS 60950: 2000 EN 60950-1: 2001 AS./NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000  UL 60605: 2003 CSA 60065: 2003 IEC 60065: 2001 EN 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 — 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 — Part 1: General Requirements For Safety — Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment For Medical Electrical
General test methods: Power inputs', Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition* CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold stomponent abnormal*, Electric strength*, Imflame*, 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 IEC 60950 12003 IEC 60950 12003 IEC 60950 12003 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 EN 61010-1 1993, 2001 IEC 61010-1 1995 EN 60601-1 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 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 2000-5 IEC 60825-2 2000-5 IEC 60825-1 4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS./NZS 60950: 2000 EN 60950-1: 2001 AS./NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000  UL 60605: 2003 CSA 60065: 2003 IEC 60065: 2001 EN 60065: 2002 EN 60065: 2002 EN 60065: 2002	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part 1: General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety — Section 1-1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety — Section 1-1: Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment — Part 1: General Requirements For Safety — Section 1-1: Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Safety of Machinery — Electrical Equipment of Machines — Part 1: Specification for General Requirements Compliance Test Specification — Safety and Electrical Protection Requirements for Subscriber Equipment
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Environmental Simulation			Note 1. For standards or methods listed on the scope of accreditation without a re	evision date, laboratories are
Test Technology Accessibility*	Test Standard IEC 60529	Supporting Standards IP-0x thru IP-6x	expected to be competent in the use of the current version within one year of the	date of publication of the
Acoustic Noise*	GR-63-CORE Sec 4.6	II OA UII U OA	standard test method or upon the date specified by the standard test method origin	
Airborne Contaminants	GR-63-CORE Sec 4.5	MFG & Hygroscopic Dust	implementation authority. When a superseded standard or method is required for	
Altitude	GR-63-CORE Sec 4.1.3		will include the superseded date/version. For those that support the TCB/CB state	us of the organization 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 day	ys of Federal Register
Drip	IEC 60529	IP-x1 & IP-x2	publication of changes for FCC and 30 days after IC website update. This note s	
Drops*	ETS 300 019	IEC 60068-2-32	Accreditation Body implication to adopt a more current standard than is required	
-	GR-63-CORE Sec 4.3		the legal requirement) which is adopted by the lab under their responsibility.	in a regulation of code (i.e.
Dust	IEC 60529	IP-5x & IP-6x	the legal requirement) which is adopted by the lab under their responsibility.	
Firearms Resistance Testing	GR-487			
Fire Resistance	ANSI.T1.319		* On-site test service is available for this technology	ev. test. or method.
	GR-63-CORE Sec 4.2	Fire & Needle Flame		5,,,
Heat Dissipation*	GR-63-CORE Sec 4.1.4			
Illumination	GR-63-CORE Sec 4.7			
Operational Temperature &				
Humidity (OpTH)*	ETS 300 019	IEC 60068-2-1		
		IEC 60068-2-2		
		IEC 60068-2-14		
		IEC 60068-2-56		
	GR-63-CORE Sec 4.1.2			
Salt Fog & Spray	ASTM B117			
Spatial*	GR-63-CORE Sec 2.0 & 3.0	ID 2 8 ID 4		
Spraying-Splashing	IEC 60529	IP-x3 & IP-x4		
Storage (Temperature & Humidity)*	ETS 300 019	IEC 60068-2-1 IEC 60068-2-2		
		IEC 60068-2-2 IEC 60068-2-14		
		IEC 60068-2-14 IEC 60068-2-30		
		IEC 60068-2-56		
	GR-63-CORE Sec 4.1.1	IEC 00008-2-30		
Vibration	ETS 300 019	IEC 60068-2-6		
Vibration	E13 300 019	IEC 60068-2-0		
		IEC 60068-2-27		
		IEC 60068-2-32		
		IEC 60068-2-57		
		IEC 60068-2-64		
		Earthquake, Office &		
	GR-63-CORE Sec 4.4	Transportation		
Water Immersion	IEC 60529	IP-x7 & IP-x8		
Water Jet	IEC 60529	IP-x5 & IP-x6		
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