Curtis-Straus Test Report

Report No	EE0563-2
Client	AES Corporation 285 Newbury Street Peabody, MA 01960
Phone Fax FRN	978-535-7310 508-535-7313 0003-6214-63
Model	52-7880-В
FCC ID	L9N7880-B
Equipment Type Equipment Code	Licensed Non-Broadcast Station Transmitter TNB
Results	As detailed within this report
Prepared by	Evan Jourle Evan Gould – Test Engineer
Authorized by	Michael Buchholz – EMC Manager
Issue Date	
Conditions of issue	This Test Report is issued subject to the conditions stated in 'terms and conditions' section of this report.

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



Curtis-Straus LLC • 527 Great Road • Littleton, MA • TEL (978) 486-8880 • FAX (978) 486-8828

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Summary

This report shows the results of testing the AES Model 7880-B UHF transceiver module to 47 CFR 90.217 The transmitter is able to operate at frequencies in the range 402-470MHz, and supports data rates up to 9600baud. The modulation employed is FSK.

Test Methodology

Radiated spurious emissions testing was performed according to the procedures specified in ANSI/TIA-603-B-2002.

Frequency range investigated: 30MHz – 5GHz

Measurement distance: 3m





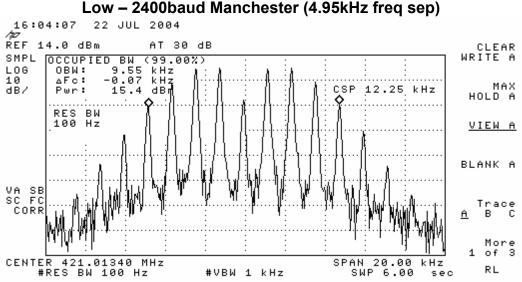
EUT Configuration

	EUT	Configur	ation		
Company Address	AES Corpo 285 Newbu Peabody, N Dave Towr	iry Street /A 01960 izen			
	MN		SN		
EUT	52-7880-B		1		
EUT Description: EUT Max Frequency:		ceiver			
Support Equipment:	MN		SN		
BK Precision DC p/s Laptop demo board (supplies power	1730 WinBookX	L	- 10807795		
and control interface)	CC1020		Rev 2.2		
EUT Cables:	Qty	Shielded?	Length	Ferrites	
<u>Demo Board Cables</u> DB25 parallel DC wires	1 1 pair	Yes No	2m 0.5m	No No	
Unpopulated EUT Ports:	Qty	Reason			
none					
Software / Operating Mode I	Description				
Operating transmitter with Sm separation, etc.	artRF Studio	to set cente	r frequency,	baud rate, fi	requency

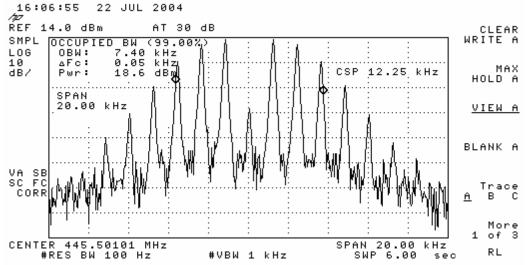


Occupied Bandwidth

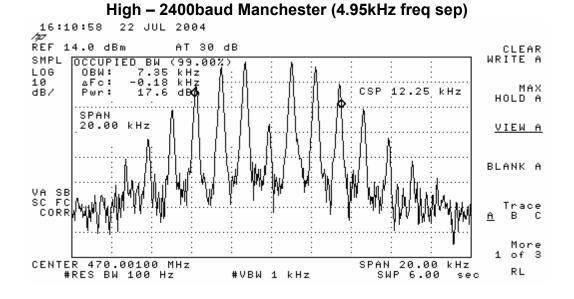


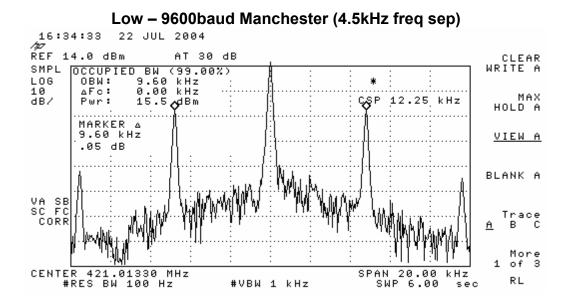




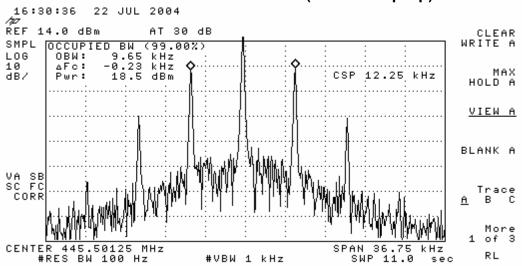




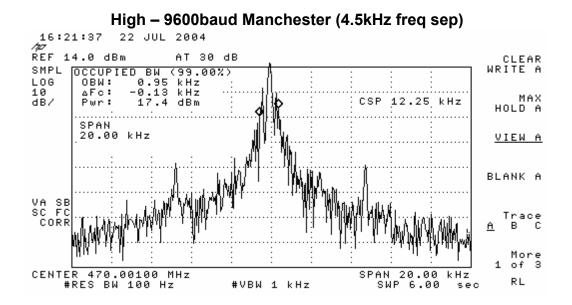








Mid – 9600baud Manchester (4.5kHz freq sep)





Peak Unmodulated Transmitter Carrier Power

REQUIREMENT

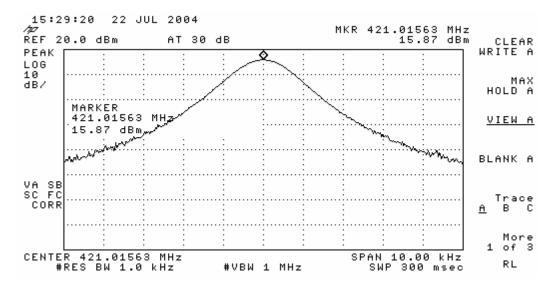
The output power limit that must be met in order to qualify for the exemption in 90.217 is 120mW (20.79dBm).

The 6dB bandwidth of the CW signals measured is less that 1kHz, so a RBW of 1kHz was used to capture the peak power.

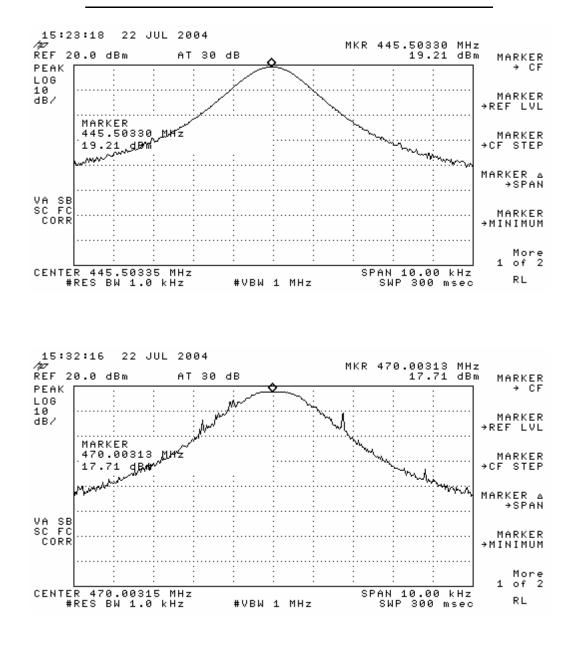
MEASUREMENTS

Peak Output Power				Cur	tis-Straus LLC
Engineer: Evan Gould	Company:	AES	Wo	rk Order:	E0563
Date: 7/22/2004	EUT:	UHF Transcei	ver ·	Test Site:	EMI 3
Analyzer: Yellow				Cable:	142LL#5
Notes: EUT settings: po	ower = "-10"; u	nmodulated			
Limit (for exemp	tion per 90.21	7) = 120mW =	20.79dBm		
		Attenuation	Adjusted		
Frequency	Reading	Factor	Reading	Limit	Result
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(Pass/Fail)
421.02	15.90	0.8	16.70	20.79	Pass
445.5	19.20	0.8	20.00	20.79	Pass
470	17.70	0.8	18.50	20.79	Pass

ANALYZER PLOTS







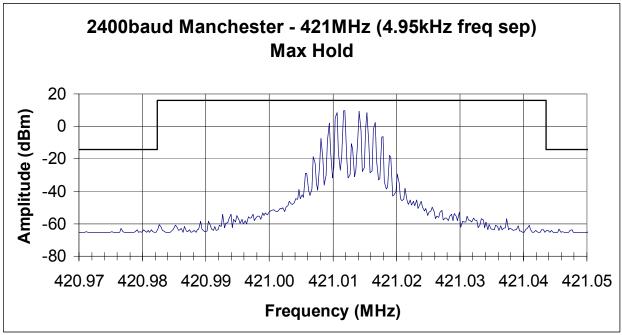


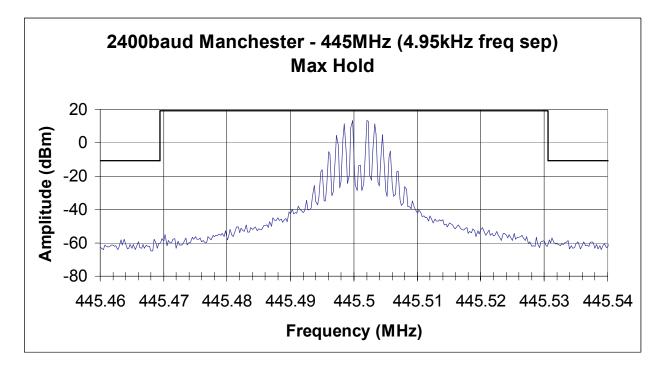
Emission Masks

REQUIREMENT

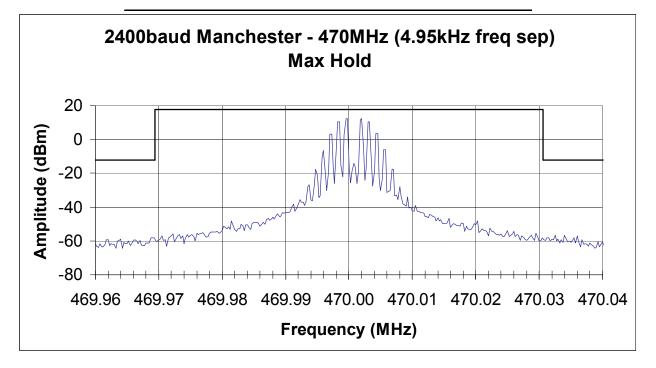
The masks shown below are specified in 47 CFR 90.217(b)

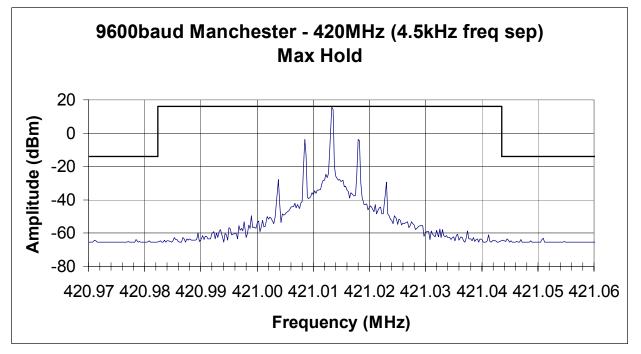
PLOTS





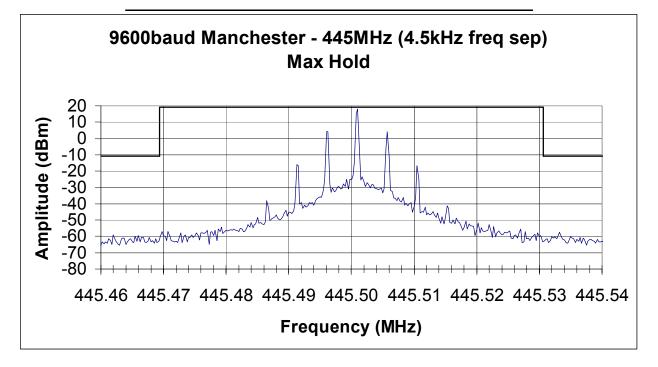


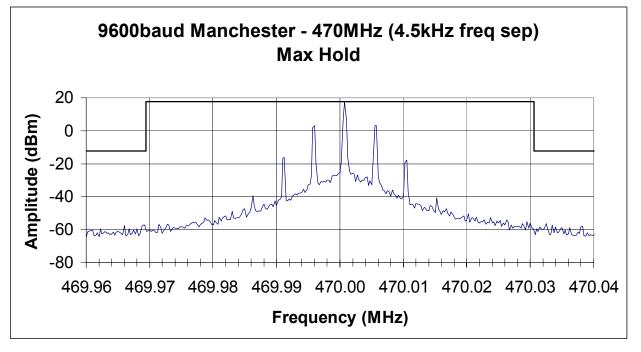














Frequency Stability

<u>REQUIREMENT</u> *"…transmitters used in the services governed by this part must have a minimum* frequency stability as specified in the following table (1.5ppm)." [90.213(a)]

MEASUREMENTS

Frequency Stability 47 CFR 90.213(a) Curtis-Straus I							
Engineer:	Evan Gould	Company: AES Work Order: E0563					
Date:	7/15/2004	EUT:	UHF Trar	nsceiver	Test Site:	ENV Chamber	
Notes:	Notes: EUT settings: transmitting on 445.5MHz, NRZ format, unmodulated,						
	4.95kHz frequer	ncy separation					
Voltage	Temperature	Frequency	Delta	Delta	Limit	Result	
(VDC)	(°C)	(MHz)	(Hz)	(ppm)	(ppm)	(Pass/Fail)	
5	20	445.503815		NOMI	NAL VALU	JE	
5.75	20	445.503760	-55	0.12346	1.5	Pass	
4.25	20	445.503740	-75	0.16835	1.5	Pass	
5	-30	445.504040	225	0.50505	1.5	Pass	
5	50	445.503445	-370	0.83052	1.5	Pass	

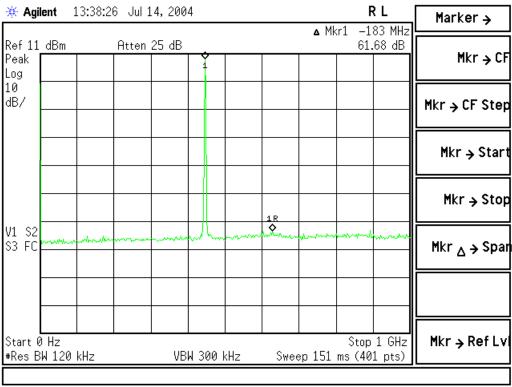


Conducted Spurious Emissions

<u>LIMIT</u>

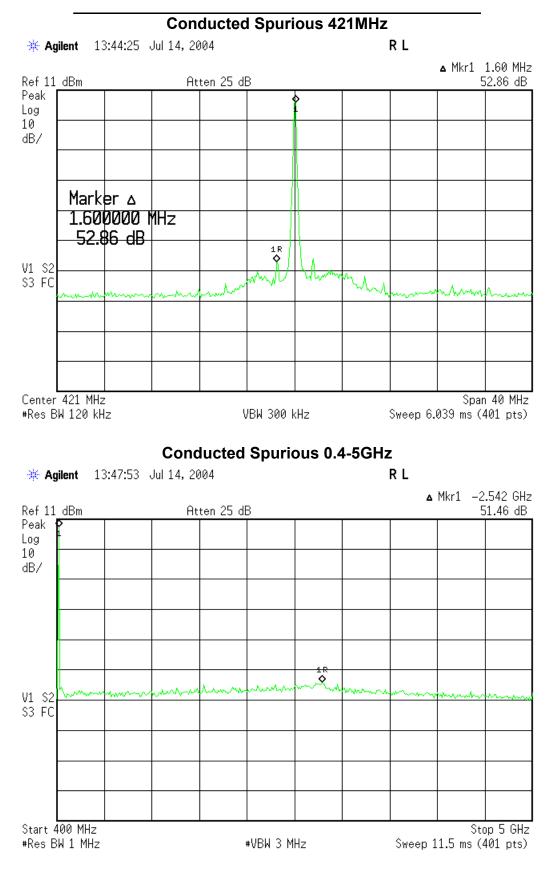
"For transmitters designed to operate with a 12.5kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:...On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5kHz: At least 50 + 10 log (P) or 70 dB, whichever is the lesser attenuation." [90.210(d)(3)]

ANALYZER PLOTS



Conducted Spurious 0-1GHz







Radiated Spurious Emissions

<u>LIMIT</u>

Same as the Conducted Spurious Emissions Limit above.

MEASUREMENTS

Radiated Spate:	16-Jul-04		Company:	AES		Engineer:	Evan Gould	1
Test Site:	"T"			UHF Transcei	ver	J		
Receiving Ant	enna Setup):		Substitution	Setup:			
	Analyzer:	Yellow		Signa	l Generator:	HP 83752A		
	Cable:	142LL#3			Cable:	142LL#5		
	Antenna:	Black Horn			Antenna:	Yellow Horn		
	Distance:	3m						
Antenna Polarity	Frequency	Analyzer Reading	Signal Generator Output Level	Cable Attenuation Factor	Antenna Gain	Adjusted Reading	Limit (see Note)	Result
(V/H)	(MHz)	(dBµV/m)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(Pass/Fail)
Н	1336	42.1	-35.2	1.4	4.8	-31.8	-20	Pass
V			-34.5	1.4	4.8	-31.1	-20	Pass
V	1782	50.1	-24.4	1.6	5.3	-20.7	-20	Pass
Н			-25.8	1.6	5.3	-22.1	-20	Pass
Н	2227	40.7	-33.9	1.8	6.0	-29.7	-20	Pass
V			-32.9	1.8	6.0	-28.7	-20	Pass
Н	2673	30.1	-42.9	2.0	6.2	-38.7	-20	Pass
V			-42.9	2.0	6.2	-38.7	-20	Pass
Note: Limit[dBm] = Peak Outp	out Power - (50) + 10 log (P[V	V])) [47 CFR 90	.210(d)(3)]		•	



Test Equipment Used

							REV. 13-JUL-2	004
SPECTRUM ANALYZERS	RANGE		MN	Mfr		SN	ASSET	CALIBRATION DUE
YELLOW	9kHz-2.9GH	lz 8	594E	HP	3523	3A01958	00100	08-AUG-2004
Orange	9kHz-26.5GH	Hz E4	4407B	HP	US3	9440975	00394	03-JUN-2005
OPEN AREA TEST SI	TE (OATS)	FC	C CODE		IC CODE	VCCI		CALIBRATION DUE
SITE T			93448		C 2762-T	R-	905	25-MAR-2005
PREAMPS / ATTENUATORS FILTERS	7/ RANG	ЭЕ	MN		MFR	SN	ASSET	CALIBRATION DUE
GREEN	0.01-200	0MHz	ZFL-1000-LN		C-S	N/A	00802	27-FEB-2005
ORANGE-BLACK	1-20G	Hz	SMC-12A		C-S	637367	00761	29-JUL-2004
HF 20DB ATTENUATOR	0.03-20	GHz	PE 7019-20		PASTERNACK	01	00791	21-MAY-2005
Antennas	RANGE	MN	MFR		SN	ASSET	CALIB	RATION DUE
GREEN-RED BILOG	30MHz-2GHz	CBL6112B	CHASE		2435	00990	06-A	PR-2006
GRAY BILOG	26MHz-2GHz	3141	EMCO	9	703-1038	00066		05(EMI)/21-JUN-
Yellow Horn	1-18GHz	3115	EMCO	9	608-4898	00037	22-N	1AY-2005
BLACK HORN	1-18GHz	3115	EMCO	9	703-5148	00056	12-J	UN-2005
ADJUSTABLE DIPOLE	30-1000MHz	3121C	EMCO		1371	00756	26-J	UN-2005
CHAMBERS AND STRIPLINE	N	1N	MF	R		SN	ASSET	CALIBRATION DUE
ENVIRONMENTAL (SAFETY)	SGT	H-31S	B-M-A	INC.		2245	00321	31-DEC-2004
SIGNAL GENERATORS	RANGE	MN	Ν	/IFR		SN	ASSET	CALIBRATION DUE
Sweeper	0.01-20.0GHz	HP8375	52A	HP	361	I0A01133	00087	04-APR-2005
Oscilloscopes		MN	Mfr		S	N	ASSET	CALIBRATION DUE
OSCILLOSCOPE 100MHZ (TE	LECOM) 54	4645A	HP		US363	20452	00103	30-JUN-2004
RMS VOLTMETERS/CUR	RENT CLAMP	MN	MNFR	2	S	N	ASSET	CALIBRATION DUE

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



Terms And Conditions

Paragraph 1. SERVICES. LABORATORY will:

- Use the degree of care and skill ordinarily exercised by and consistent with the standards of the profession. 1 1
- Perform all technical services in substantial accordance with the generally accepted laboratory principles and practices. 1.2
- 1.3 Retain all pertinent records relating to the services performed for a period of three (3) years following submission of the report describing such services, during which period the records will be made available to CLIENT upon reasonable request.

Paragraph 2. CLIENT'S RESPONSIBILITIES. CLIENT or his authorized representative will:

- 2.1 Provide LABORATORY with all plans, schematics, specifications, addenda, change orders, drawings and other information for the proper
- performance of technical services. Designate a person to act as CLIENT's representative with respect to LABORATORY's services to be performed on behalf of the 2.2 CLIENT; such person or firm to have complete authority to transmit instructions, receive information and data, interpret and define CLIENT's policies and decisions with respect to the LABORATORY's work on behalf of the CLIENT and to order, at CLIENT's expense, such technical services as may be required.
- Designate a person who is authorized to receive copies of LABORATORY's reports.
- 2.4 Undertake the following:
 - (a) Secure and deliver to LABORATORY, without cost to LABORATORY, preliminary representative samples of the equipment proposed to require technical services, together with any relevant data.
 - Furnish such labor and equipment needed by LABORATORY to handle samples at the LABORATORY and to facilitate the specified (b) technical services.

GENERAL CONDITIONS: Paragraph 3.

- 3.1 LABORATORY, by the performance of services covered hereunder, does not in any way assume any of those duties or responsibilities customarily vested in the CLIENT, its employees, or any other party, agency or authority.
- 32 LABORATORY shall not be responsible for acts of omissions of any other party or parties involved in the design, manufacture or maintenance of the equipment or the failure of any employee, contractor or subcontractor to undertake any aspect of equipment's design, manufacture or maintenance.
- LABORATORY is not authorized to revoke, alter, release, enlarge or release any requirement of the equipment's design, manufacture or maintenance unless specifically authorized by CLIENT or his authorized representative. THE ONLY WARRANTY MADE BY LABORATORY IN CONNECTION WITH ITS SERVICE PERFORMED HEREUNDER IS 33
- 34 THAT IT WILL USE THAT DEGREE OF CARE AND SKILL AS SET FORTH IN PARAGRAPH I ABOVE. NO OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE OR INTENDED FOR SERVICES PROVIDED HEREUNDER. Where the LABORATORY indicates that additional testing is advisable to obtain more valid or useful data, and where such testing has not
- 35
- been authorized, CLIENT agrees to view such test reports as inconclusive and preliminary. The LABORATORY will supply technical service and prepare a report based solely on the sample submitted to the LABORATORY by the CLIENT. The CLIENT understands that application of the data to other devices is highly speculative and should be applied with 3.6 extreme caution
- 3.7 The LABORATORY agrees to exercise ordinary care in receiving, preserving and shipping (F.O.B. Littleton, MA) any sample to be tested, but assumes no responsibility for damages, either direct or consequential, which arise from loss, damage or destruction of the samples due to the act of examination, modification or testing, or technical services or circumstances beyond LABORATORY's control.
- 3.8 The LABORATORY will hold samples for thirty (30) days after tests are completed, or until the CLIENT's outstanding debts to the LABORATORY are satisfied, whichever is later. 39
- The CLIENT recognizes that generally accepted error variances apply and agrees to consider such error variances in its use of test data. 3.10 It is agreed between LABORATORY and CLIENT that no distribution of any tests, reports or analysis other than that described below shall be made to any third party without the prior written consent of both parties unless such distribution is mandated by operation of law. It is agreed that tests, reports, or analysis results may be disclosed to third party auditors of the laboratory at the laboratory facility in the course of accreditation maintenance audits. No reference to reports or technical services of the LABORATORY shall be made in any
- advertising or promotional literature without the express written permission of the LABORATORY. 3.11 The CLIENT acknowledges that all employees of LABORATORY operate under employment contracts with the LABORATORY and CLIENT agrees not to solicit employment of such employees or to solicit information related to other clients from said employees.
- 3.12 In recognition of the relative risks and benefits of the project to both CLIENT and LABORATORY, the risks have been allocated such that the CLIENT agrees, to the fullest extent permitted by law, to limit the liability of the LABORATORY to the CLIENT for any and all claims, losses, costs, damages of any nature whatsoever or claims expenses from any cause or causes, including attorneys' fees and costs and expert witness fees and costs, so that the total aggregate liability of the LABORATORY to the CLIENT shall not exceed \$100,000, or the LABORATORY'S total fee for services rendered on this project, whichever is greater. It is intended that this limitation apply to any and all liability or cause of action however alleged or arising, unless otherwise prohibited by law.

Paragraph 4. INSURANCE:

- LABORATORY shall secure and maintain throughout the full period of the services provided to the CLIENT adequate insurance to protect it from claims under applicable Workmen's Compensation Acts and also shall maintain one million dollars of general liability 41
- protect it from claims under applicable workmen's Compensation Acts and also shall maintain one minion doma's or general maching coverage to cover claims for bodily injury, death or property damage as may arise from the performance of its services. The CLIENT hereby warrants that it has sufficient insurance to protect its employees adequately under applicable Workmen's Compensation Acts and for bodily injury, death, or property damage. No insurance of whatever kind or type, which may be carried by either party is to be considered as in any way limiting any other party's ware unitable from their operations or for furniching work and materials. 4.2
- 4.3 responsibility for damages resulting from their operations or for furnishing work and materials.

Paragraph 5. PAYMENT:

5.1 CLIENT shall pay to LABORATORY such fees for services as previously agreed, orally or in writing, within 30 days of presentment of a bill for such services performed. In the event CLIENT ordered, orally or in writing, services but such services were not assigned a rate for billing, such services shall be billed at the LABORATORY's reasonable and customary rate.



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- CLIENT shall be responsible for all shipping, customs and other expenses related to services provided by LABORATORY to the CLIENT, and shall fully insure any test sample or other equipment provided to LABORATORY by the CLIENT. Amounts overdue from CLIENT to LABORATORY shall be charged interest at a rate of 1½% per month. 5.2
- 5.3

Paragraph 6. ISO/IEC GUIDE 17025 ADDITIONS:

- 6.1
- CLIENT agrees that this test report will not be reproduced except in full, without written approval from the LABORATORY. 6.2
- Government. 6.3 CLIENT agrees that test results presented herein relate only to the sample tested by the LABORATORY.



A2LA Accreditation

SCOPE OF ACCE	EDITATION TO ISO/IEC 17025-1999	EN 55011 1991, 1998 characteristics of	Limits and methods of measurement of radio disturbance industrial, scientific and medical (ISM) radio-frequency equipment.
SCOLE OF ACCE		SABS CISPR 11:1997	Industrial, scientific and medical (ISM) radio-frequency equipment -
	CURTIS-STRAUS ¹ 527 Great Road		Electromagnetic disturbance characteristics Limits and methods of measurement
	Littleton, MA 01460	Canada ICES-001 1998 CNS13803	Industrial, scientific and medical radio frequency generators
Barry Qu		AS/NZS 2064: 1997	Industrial, Scientific and Medical Instrument Limits and methods of measurement of electromagnetic disturbance
	ELECTRICAL		characteristics of industrial, scientific and medical (ISM) radio- frequency equipment.
Valid until: July 31, 2005	Certificate Number: 1627-01	CSA C108.8 - M1983	Electromagnetic Emission from Data Processing Equipment and
	the A2LA evaluation process, accreditation is granted to this	CISPR 13:1996, 1998, 2001	Electronic Office Machines Limits and methods of measurement of radio interference
laboratory to perform the following <u>Electroma</u> Safety tests:	gnetic Compatibility (EMC), Telecommunications, and Product		characteristics of sound and television broadcast receivers and associated equipment.
		EN 55013: 1990, 2001	Sound and television broadcast receivers and associated equipment:
Electromagnetic Compatibility (EMC) Radiated emissions testing (electric and magnet	etic fields); Conducted emissions testing (voltage and current);		Electromagnetic compatibility. Part 1: Specification for limits and methods of measurement of radio disturbance characteristics of
	Transient testing; Radiated Immunity testing; Conducted Immunity Dips, Interrupts and Voltage Variations testing; Magnetic Immunity	EN 55013 Amend 12 1994	broadcast receivers and associated equipment. Limits and methods of measurement of radio disturbance
testing; RF Power measurements; Frequency S	stability measurements; Longitudinal Induction measurements;	ER SSOTS Allend 12 1994	characteristics of broadcast receivers and associated equipment.
Harmonic emissions testing; Light flicker testi measurements	ng; Low frequency disturbance voltage testing; Disturbance Power	SABS CISPR 13: 1996	Amendment 12 Limits and methods of measurement of radio interference
EMC Standards	Title		characteristics of sound and television broadcast receivers and associated equipment.
	<u>nuc</u>	CNS 13439	Broadcast receiver and associated equipment Limits and methods of
Emissions CISPR 22 1997 with amendments 1 and 2	Limits and methods of measurement of radio disturbance	AS/NZS 1053: 1999	measurement of radio interference characteristics of sound and television broadcast receivers and associated equipment.
CNS13438 1994	characteristics of information technology equipment. Limits and methods of measurement of radio interference	CISPR 14 1993 (except discontinuous disturbances)	Limits and methods of measurement of radio disturbance characteristics of electrical motor- operated and thermal appliances for
	characteristics of information technology equipment.		household and similar purposes, electric tools and electric apparatus.
EN55022:1994 and 1998	Limits and methods of measurement of radio disturbance characteristics of information technology equipment.	EN 55014 1993, 1997 discontinuous disturbances)	Limits and methods of measurement of radio disturbance (except characteristics of electrical motor- operated and thermal appliances for
SABS CISPR 22:1997	Information technology equipment - Radio disturbance		household and similar purposes, electric tools and similar electric
Canada ICES-003 1997	characteristics - Limits and methods of measurement Digital apparatus	AS/NZS 1044: 1995	apparatus. Limits and methods of measurement of radio disturbance (except
AS/NZS 3548 1995	Australian/New Zealand Standard Limits and methods of measurement of radio disturbance characteristics of information	discontinuous disturbances)	characteristics of electrical motor- operated and thermal appliances for household and similar purposes, electric tools and similar electric
	technology equipment		apparatus.
CISPR 11 1990, 1997, 1999	Limits and methods of measurement of electromagnetic disturbance characteristics of industrial, scientific and medical	Immunity	
	(ISM) radio-frequency equipment.	CNS13783-1 SABS CISPR 14-1 1993	Household Electrical Appliances Electromagnetic compatibility – Requirements for household
		SAB3 CI3I K 14-1 1775	appliances, electric tools and similar apparatus Part 1: Emission -
¹ Note: This accreditation covers testing perfor	med at the laboratory listed above and the satellite facility	SABS CISPR 14-2 1997 + A1:2001	Product family standard Electromagnetic compatibility – Requirements for household
located at 168 Ayer Rd, Littleton, MA 01460			appliances, electric tools and similar apparatus Part 2: Immunity - Product family standard
	N 1 411		
(A2LA Cert. No. 1627-01) 10/31/03	Page 1 of 11	(A2LA Cert. No. 1627-01) 10/31/03	Page 2 of 11
CISPR 14-2 1996, 1997 + A1:2001	Immunity requirements for household appliances, tools and	EN 61000-6-1: 1997, 2001	Electromagnetic Compatibility (EMC)- Part 6: Generic standards-
CISPR 20: 1995, 2002 with amendment 3	similar apparatus. Limits and methods of measurement of immunity characteristics		Section 1: Immunity for residential, commercial and light-industrial environments
(associated group only)	of sound and television broadcast receivers and associated equipment.	EN 61000-6-2: 1998, 2001	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments
EN 55020: 1995, 2002	Electromagnetic immunity of broadcast receivers and	EN 50091-2 1996	Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements
	Associated equipment.	1	
(associated group only) CISPR 24	Information technology equipment - Immunity characteristics -	EN 55024 1998	Information technology equipment - Immunity Characteristics - Limits
CISPR 24	Information technology equipment – Immunity characteristics – Limits and methods of measurement		Information technology equipment – Immunity Characteristics – Limits and methods of measurement.
CISPR 24 SABS CISPR 24 1997	Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment – Immunity characteristics – Limits and methods of measurement	EN 55024 1998 EN 55103-1 1997	Information technology equipment – Immunity Characteristics – Limits and methods of measurement. Electromagnetic Compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for
CISPR 24	Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment – Immunity characteristics – Limits and methods of measurement Approval and test specification – Medical electrical Equipment – General requirements for safety – Collateral Standard:		Information technology equipment – Immunity Characteristics – Limits and methods of measurement. Electromagnetic Compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use. Part 1: Emission Electromagnetic Compatibility – Product family standard for audio,
CISPR 24 SABS CISPR 24 1997	Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment – Immunity characteristics – Limits and methods of measurement Approval and test specification – Medical electrical Equipment	EN 55103-1 1997	Information technology equipment – Immunity Characteristics – Limits and methods of measurement. Electromagnetic Compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use. Part 1: Eimission Electromagnetic Compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control professional use.
CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 European Union Basic EMC Standards	Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment – Immunity characteristics – Limits and methods of measurement Approval and test specification – Medical electrical Equipment – General requirements for safety – Collateral Standard: Electromagnetic compatibility – Requirements and tests.	EN 55103-1 1997 EN 55103-2 1997	Information technology equipment – Immunity Characteristics – Limits and methods of measurement. Electromagnetic Compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use. Part 1: Emission Electromagnetic Compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control professional use. Part 2: Immunity Electrical equipment for measurement, control and laboratory use –
CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995	Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment – Immunity characteristics – Limits and methods of measurement Approval and test specification – Medical electrical Equipment – General requirements for safety – Collateral Standard: Electromagnetic compatibility – Requirements and tests. Electromagnetic compatibility (EMC). Part 4: Testing and	EN 55103-1 1997 EN 55103-2 1997 (excluding Annex A3) EN 61326 1998	Information technology equipment – Immunity Characteristics – Limits and methods of measurement. Electromagnetic Compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use. Part 1: Emission Electromagnetic Compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control professional use. Part 2: Immunity Electrical equipment for measurement, control and laboratory use – EMC requirements
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ETS EN 300 386-2 1997, 1998,	Electromagnetic compatibility and radio spectrum matters	EN 300 328-2:2001	Electromagnetic compatibility and Radio spectrum Matters (ERM):
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(ETS) EN 300 385 v1.2.1: 1998, 1999	Electromagnetic compatibility and Radio spectrum matters (ERM); Electromagnetic Compatibility (EMC) standard for	Canadian RSS-134 1996 & 2000, Issue 1	receivers, 27.41 to 960.0 MHz Industry Canada – 900 MHz narrowband personal communications
EN 300 330 v1.2.1: 1998, 1999	fixed radio links and ancillary equipment (ETS) Electromagnetic compatibility and Radio spectrum matters (ERM); Short range devices (SRD); Technical characteristics and test methods for radio equipment in the range 9 kHz to 25	Rev 1 Canadian RSS-210 2000 Issue 3, RFS29 1998 Specification for Restrict	services Industry Canada – Low power license-exempt radio 2001 Issue 5 communication devices ted Radiation Radio Apparatus (New Zealand)
ETS 300 328 1996	MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz Radio Equipment and Systems (RES); Wideband transmission	FCC Standards	Scope A1
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ETS EN 300 440 v1.2.1 1999	Electromagnetic compatibility and Radio spectrum matters (ERM); Short range devices; Technical characteristics and test methods for radio equipment to be used in the 1 Ghz to 40 Ghz	47 CFR FCC low power transmitters operating on frequencies above 1 GHz, with the exception of spread spectrum	Scope A2
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GR-1089-CORE: 1997, 1999 issue 2/ 2002 Issue 3	Bellcore electromagnetic compatibility and electrical safety – Generic criteria for network telecommunications equipment.	TIA/EIA-IS-883	Telecommunications Telephone Terminal Equipment Supplemental Technical Requirements for Connection of Stutter Dial Tone Detection Devices and ADSL Modems to the Telephone Network
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ANSI C63.5 1988	equipment in the range of 9 kHz to 40GHz. American National Standard for electromagnetic compatibility – radiated emissions measurements in electromagnetic	T1.TRQ.6-2001	Technical Requirements for SHDSL, HDSL2, HDSL4 Digital Subscriber Line Terminal Equipment to Prevent Harm to the Telephone Network Industry
IEEE EMC Standards	interference (EMI) control - calibration of antennas.	Canada VDSL Issue 1 January 2003	Terminal Attachment Program Requirements and Test Methods for Very-High-Bit-Rate Digital Subscriber Line (VDSL) Terminal Equipment
IEEE C62.41: 1980, 1991	IEEE recommended practice on surge voltages in low-voltage AC power circuits	AS/ACIF S002-2001	Analogue interworking and non-interference requirements for Customer Equipment for connection to the Public Switched Telephone Network
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SABS 1718-1: 1996 Japanese VCCI Standards VCCI V-3/99.05 1999 VCCI V-4/99.05 1999 Telecommunications Telecommunications Registration; General tes power (metallic and longitudinal); Frequency I testing; Hearing Aid Compatibility testing (exc	for wired terminal equipment. Harmonization document information over the OFCOM requirements. <i>PR equivalents</i> South African Bureau of Standards: Specification for Gaming equipment. Part 1: Casino equipment. Technical Requirements Instruction for Test Conditions for Requirement under Test t methods; Lightning surge; Drop testing; Balance testing; Signal measurements; Pulse templates; Leakage testing; Impedance <i>cluding volume control</i>); Protocol analysis and Jitter testing. <u>Title</u> Connection of terminal equipment to the telephone Terminal Equipment network. Analog and Digital Equipment. TCB Scope	AS/ACIF S038-2001 AS/ACIF S043-2001 ITU-T G.703 HKTA 2028 HKTA 2029 TBR 1 : 1995 TBR 2 : 1997	digital interfaces Requirements for ISDN Basic Access Interface Requirements for ISDN Pasic Access Interface Requirements for ISDN Primary Rate Access Interface Requirements for Customer Equipment for Connection to a Metallic Local Loop Interface of a Telecommunications Network — Part 1: General Part 2: Broadband Part 3: DC, Low Frequency AC and Voiceband Physical/electrical characteristics of hierarchical Digital interfaces Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 1544 kbit/s Network connection specification for connecticus using a CCITT Hong Kong using digital leased circuits at data rate of 2048 kbit/s Attachment requirements for terminal equipment to be connected to circuit switched data networks and leased circuits using a CCITT Recommendation X.21 interface, or at an interface physically, functionally and electrically compatible with CCITT Recommendation X.21 but operating at any data signaling rate up to, and including, 1 984 kbit/s Attachment requirements for Data Terminal Equipment (DTE) to connect to Packet Switched Public Data Networks (PSPDNs) for CCITT Recommendation X.22 interfaces at data signaling rates up to 1
SABS 1718-1: 1996 Japanese VCCI Standards VCCI V-3/99.05 1999 VCCI V-4/99.05 1999 Telecommunications Telecommunications Registration; General tes power (metallic and longitudinal); Frequency 1 testing; Hearing Aid Compatibility testing (exc Telecom Standards	for wired terminal equipment. Harmonization document information over the OFCOM requirements. ² <i>R</i> equivalents South African Bureau of Standards: Specification for Gaming equipment. Part 1: Casino equipment. Technical Requirements Instruction for Test Conditions for Requirement under Test tmethods; Lightning surge: Drop testing; Balance testing; Signal measurements; Pulse templates; Leakage testing; Impedance <i>Luding volume control</i>); Protocol analysis and Jitter testing. <u>Title</u> Connection of terminal equipment to the telephone Terminal Equipment network. Analog and Digital Equipment. TCB Scope C1. Specification for terminal equipment, terminal systems, Network protection devices, connection arrangements and	AS/ACIF S038-2001 AS/ACIF S043-2001 ITU-T G.703 HKTA 2028 HKTA 2029 TBR 1 : 1995 TBR 2 : 1997	digital interfaces Requirements for ISDN Basic Access Interface Requirements for ISDN Primary Rate Access Interface Requirements for ISDN Primary Rate Access Interface Requirements for Customer Equipment for Connection to a Metallic Local Loop Interface of a Telecommunications Network — Part 1: Broadband Part 3: Broadband Part 3: DC, Low Frequency AC and Voiceband Physical/electrical characteristics of hierarchical Digital interfaces Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 1544 kbit/s Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 2048 kbit/s Attachment requirements for terminal equipment to be connected to circuit switched data networks and leased circuits using a CCITT Recommendation X.21 interface, or at an interface physically, functionally and electrically compatible with CCITT Recommendation X.21 but operating at any data signaling rate up to, and including, 1 984 kbit/s
SABS 1718-1: 1996 Japanese I'CCI Standards VCCI V-3/99.05 1999 VCCI V-4/99.05 1999 Telecommunications Registration; General tes power (metallic and longitudinal); Frequency 1 testing; Hearing Aid Compatibility testing (exc <u>Telecom Standards</u> FCC 47 CFR Part 68 Telephone	for wired terminal equipment. Harmonization document information over the OFCOM requirements. 2 <i>R</i> equivalents South African Bureau of Standards: Specification for Gaming equipment. Part 1: Casino equipment. Technical Requirements Instruction for Test Conditions for Requirement under Test t methods; Lightning surge; Drop testing; Balance testing; Signal measurements; Pulse templates; Leakage testing; Impedance <i>cluding volume control</i>); Protocol analysis and Jitter testing. <u>Title</u> Connection of terminal equipment to the telephone Terminal Equipment network. Analog and Digital Equipment, TCB Scope Cl.	AS/ACIF S038-2001 AS/ACIF S043-2001 ITU-T G.703 HKTA 2028 HKTA 2029 TBR 1 : 1995 TBR 2 : 1997	digital interfaces Requirements for ISDN Basic Access Interface Requirements for ISDN Primary Rate Access Interface Requirements for ISDN Primary Rate Access Interface Requirements for Customer Equipment for Connection to a Metallic Local Loop Interface of a Telecommunications Network — Part 1: Broadband Part 3: Broadband Part 3: DC, Low Frequency AC and Voiceband Physical/electrical characteristics of hierarchical Digital interfaces Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 1544 kbit/s Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 2048 kbit/s Attachment requirements for terminal equipment to be connected to circuit switched data networks and leased circuits using a CCITT Recommendation X.21 interface, or at an interface physically, functionally and electrically compatible with CCITT Recommendation X.21 but operating at any data signaling rate up to, and including, 1 984 kbit/s Attachment requirements for Data Terminal Equipment (DTE) to connect to Packet Switched Public Data Networks (PSPDNs) for CCITT Recommendation X.23 interfaces at data signaling rates up to J 20 kbit/s utilizing interfaces derived from CCITT Recommendations





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TBR 3 : 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN); Attachment	IEC 60950 2000	Safety of information technology equipment
	requirements for terminal equipment to connect to an ISDN using ISDN basic access	EN 60950 1997, 1998, 2000 IEC 60950-1 2001	Safety of information technology equipment, including Electrical business equipment.
TBR 4 : 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN); Attachment	UL 60950-1 2003	ounces equipment.
	requirements for terminal equipment to connect to an ISDN using ISDN primary rate access	CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03	
TBR 012 : 1993 + Amdt : 1996	Business Telecommunications (BT); Open Network Provision	AS/NZS 3260 1993	Approval and test specification - Safety of information technology
	(ONP) technical requirements; 2 048 kbit/s digital unstructured leased line (D2048U) Attachment requirements for terminal	AS/NZS 3260 Supp 1 1996	equipment including electrical business Equipment. Approval and test specification – Safety of information technology
	equipment		equipment including electrical business equipment - Alphabetical
TBR 013 : 1996	Business TeleCommunications (BTC); 2 048 kbit/s digital structured leased lines (D2048S); Attachment requirements for	ACA TS 001 1997	reference index to IEC 950 (Supplement to AS/NZS 3260:1993) Australian Communications Authority – Safety requirements for
	terminal equipment interface		customer equipment.
TBR 21 : 1998	Terminal Equipment (TE); Attachment requirements for pan- European approval for connection to the analogue Public	UL 1459 1995 IEC 1010-1 1990	Telephone Equipment Safety requirements for electrical equipment for measurement, control
	Switched Telephone Networks (PSTNs) of TE (excluding TE	IEC 61010-1 1993	and laboratory use, Part 1: General requirements.
	supporting the voice telephony service) in which network addressing, if provided, is by means of Dual Tone Multi	EN 61010-1 1993, 2001 IEC 61010-1 2001	Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.
TBR 24 : 1997	Frequency (DTMF) signaling Business TeleCommunications (BTC); 34 Mbit/s digital	UL 61010B-1 2003 UL 3101-1 1993	The trial of the labor to the Boot I. Consultant instants
IBR 24 : 1997	Unstructured and structured leased lines (D34U and D34S);	CAN/CSA 1010-1 1995 (Including AM	Electrical equipment for laboratory use Part 1: General requirements. 2)
	Attachment requirements for terminal equipment interface	UL 3111-1 1996 UL 3121-1 1995	Electrical measuring and test equipment. Part 1: General requirements.
Australia		IEC 60601-1 1995	Medical electrical equipment. Part 1: General requirements for safety.
TS 002 : 1997	Analogue Interworking and Non interference Requirements for Customer Equipment Connected to the Public Switched	EN 60601-1 1995 (Including AM 2) UL 2601-1 1997	Medical electrical equipment Medical electrical equipment. Part 1: General Requirements for safety.
	Telephone Network	IEC 60065 1998, 2000	Audio, video and similar electronic apparatus - Safety requirements
TS 016 : 1997	General Requirements for Customer Equipment Connected to Hierarchical Digital Interfaces	ANSI/UL 6500: 1998 CAN/CSA 60065-00	Audio/video and musical instrument apparatus for Household, commercial and similar general use
TS 031 : 1997	Requirements for ISDN Basic Access Interface	AS/NZS 3250 1995	Australian/New Zealand Standard - Approval and test
TS 038 : 1997 AS/ACIF S043.2:2001	Requirements for ISDN Primary Rate Access Interface Requirements for Customer Equipment for connection to a	AS/NZS 60065 2000	Specification – Mains operated electronic and related Equipment for household and similar general use
15/1011 0075.2.2001	metallic loop interface of a Telecommunications Network - Part	Canadian C22.2 No. 1-94 (1-98)	Audio, video and similar electronic equipment. Consumer and 1994,
	2 Broadband	1998 EN 60065 1994	commercial products Safety requirements for main operated electronic and related apparatus
Product Safety			for household and similar general use.
	ngth tests; Impulse tests; Permanency of marking tests; nts; Capacitor discharge tests; Humidity conditioning; Earthing	IEC 60825 1990	Radiation safety of laser products, equipment Classification, requirements and user's guide
tests; Limited power source measurements; Sta	ability tests; Steel ball tests; Lithium Battery Reverse Current	EN 60825-1 1994	Safety of laser products Part 1: equipment Classification, requirements
measurements; Leakage current tests; Transfor cross tests (excluding x-ray tests).	mer abnormal tests; Telecom leakage tests; Over voltage/power	IEC 60825-1 2001 IEC 60825-2 2000-5	and user's guide. Safety of laser products – Part 2: Safety of optical communication
,	Title	systems	
Product Safety Standards	Title	IEC 60825-4 1997-11 IEC 60335-1 1995	Safety of laser products – Part 4: Laser guards Safety of household and similar electrical appliances
Specific Product Safety Standards		(Including AM2 - 1997 & AM 12 - 199	
IEC 950 1991	Safety of information technology equipment including Includes Amendments 1, 2, 3, and 4 electrical business equipment.	EN 60335-1 2001 UL 60335-1 1998	
UL 1950 1998	Safety of information technology equipment, including	CAN/CSA E335-1 1994	
CSA C22.2 No.950-95	lectrical business equipment. Safety of Information Technology Equipment (UL 1950)		
UL 60950 2000	Safety of information technology equipment		
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UL 61010A-1 : 2002	Electrical equipment for laboratory use; part 1: General		
EN 61010-1 : 2001	requirements Safety requirements for electrical equipment for measurement,		
AS/NZS 60950 : 2000	control, and laboratory use - Part 1: General requirements Safety information technology equipment		
Environmental ²			
	Tid		
Environmental Standards GR-63-CORE	Title NEBS Requirements: Physical Protection		
ETS 300 019	Environmental conditions and environmental tests For		
(vibration up to 1000Hz)	telecommunications equipment		
² Environmental testing is performed at the sate	ellite facility located at 168 Ayer Rd, Littleton, MA 01460		
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