# Curtis-Straus Test Report

Report No	EE0655-1
Client	Locknetics Security Engineering 575 Birch Street
Phone Fax	Forestville, CT 06010 860-314-5248 860-322-1233
FRN	00051788298
Models	VIP5100 series, VIP5500 series, & VIP993 series
FCC ID	P2GVIPFP
Equipment Type Equipment Code	Low Power Communication Device Transmitter DXX
Results	As detailed within this report
Prepared by	Mi Hussain – Test Engineer
Authorized by	Michael Buehholz – EMC Manager
Issue Date	
Conditions of issue	This Test Report is issued subject to the conditions stated in 'terms and conditions' section of this

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.



Summary	3
Test Methodology	3
Product Description	3
Modification for Compliance	3
Statement of Conformity	4
Test Data and Plots	
Section 15.31(e)	5
Section 15.209 & 15.205	6
Band Edge at Restricted Band	7
AC Line Conducted Emission Measurements	8
Test Equipment Used	9
Terms And Conditions	13
A2LA Accreditation	15

## Summary

This report is an application for certification of a transmitter operating under 47 CFR FCC 15.209 of the FCC rules. Products covered by this report are VIP5100, VIP5500, & VIP993 series locks. These locks are microprocessor controlled, electromechanical locking systems. Electronics and RF section are identical in all three types of locks. The only difference between them is that 5100 series has cylindrical latch, 5500 series has Mortise latch, & 993 series interfaces mechanically to push bar.

## Test Methodology

All testing was performed according to the procedures specified in ANSI C63.4 (2003). Receiving loop antenna was rotated in order to maximize radiated emissions.

Frequency range investigated:	9KHz – 1 GHz

Measurement Distance:		
Frequency (MHz)	Distance (m)	Comments
0.15 MHz – 30 MHz	-	Conducted
		emissions (power
		input)
9 KHz – 1000 MHz	3 m	Fundamental &
		spurious

Line conducted testing was performed with  $50\Omega/50\mu$ H LISN.

## **Product Description**

MN:	VIP5100
SN:	Test sample 1
Cables:	4 conductor, 20AWG (shielded) 1 m long
Support Equipment	
	System board by Keri
	Power supply by HP MN: HP 6012A

All readings are peak unless otherwise noted.

## **Modification for Compliance**

Lock must be grounded. This modification was required to pass AC line conducted test.

# Statement of Conformity

The VIP5100, VIP5500, & VIP993 locks have been found to conform with the following parts of the 47 CFR as detailed below:

47 CFR	47 CFR	Comments
Part #	Part #	
	15.15(b)	The product contains no user accessible controls
		that increase transmission power above allowable
		levels.
2.925	15.19	The label is shown in the label exhibit.
	15.21	Information to the user is shown in the instruction manual exhibit.
	15.27	No special accessories are required for compliance.
	15.31(e)	The input power was varied +/-15% from its nominal value (12 & 24V DC) and respective RF radiated power level was measured.
	15.203	The antenna is not accessible to the user and therefore cannot be easily removed. (The antenna and its connector are underneath the PCB assembly sealed inside the main housing.)
	15.205 15.209	The fundamental is not in a Restricted band and the spurious emissions in the Restricted bands comply with the general emission limits of 15.209.
	15.207	Unit is DC powered. Conducted EMI was performed on AC side of DC power supply.

## Test Data and Plots

## Section 15.31(e)

Voltage	Variation	FCC 15.31(e)								
Company:	Work Order: E065 Company: Locknetics									
Engineer: Mairaj Hussain Product: VIP5100, 5500, 993 Series										
Detector: Peak Test Green Spectrum Analyzeer Equipment: Green PA Small Loop										
	Voltage	Reading								
15% of 12V	13.8	43.1								
Nominal	12.00	42.9								
-15%	10.20	42.7								
15% of 24V	27.60	42.9								
Nominal	24	42.8								
-15%	20.4	42.7								

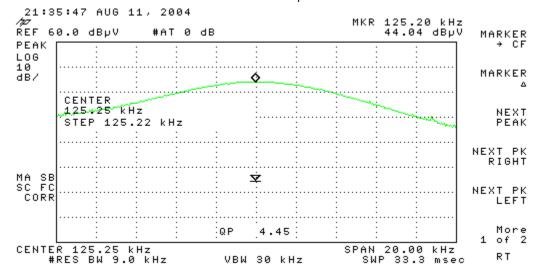
Conclusion	The peak radiated power does not change with
Conclusion.	input voltage.

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

## Section 15.209 & 15.205

Fundame	ental, Ha				Curtis-St	aus LLC						
Date: 12-Aug-04 Company: Locknetics										v	Vork Order:	E0655
Engineer:	Mairaj Hussa	in		EUT Desc:	VIP5100	0, 5500, 993	3 Series					
	Freque	ncy Range:	125KHz - 3	30MHz		Measuremer	nt Distance:	3 m				
Notes: RBW: 9KHz; VBW: 30KHz; Fundamental @ 125KHz EUT Max Freq: 16MHz NF: Noise floor												
Antenna			Preamp	Antenna	Cable	Adjusted					FCC 15.209	
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Dis. Fac	Margin	Final reading	Limit	Margin	Result
(0 or 90 deg)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)
Band Edge												
0pk 1m	0.11	32.4	21.2	53.0	0.0	64.2	99.0		-34.8	26.8	-61.6	Pass
0 pk 1m	0.1252	44.0	21.2	53.0	0.0	75.8	99.0		-23.2	25.7	-48.8	Pass
0 pk 1m	0.25	20.7	22.0	57.5	0.0	56.2	99.0		-42.8	25.7	-68.5	Pass
0 pk 1m	0.375	20.2	22.0	54.8	0.0	53.0	99.0		-46	25.7	-71.7	Pass
0 pk 1m	0.5	17.0	22.0	53.1	0.0	48.1	59.0		-10.9	33.6	-44.5	Pass
(NF) 0 pk 3m	0.625	7.8	22.0	52.2	0.0	38.0	40.0		-2	31.7	-33.7	Pass
(NF) 0 pk 3m	0.751	9.5	22.0	51.4	0.0	38.9	40.0		-1.1	30.1	-31.2	Pass
(NF) 0 pk 3m	0.877	9.4	22.0	51.1	0.0	38.5	40.0		-1.5	28.7	-30.2	Pass
Test Site:	"T"	Pre-Amp:	Green	Cable:	65 ft RG	68A/U	Analyzer:	Red		Antenna:	Sm Loop (lo	ow)

# Loop Distance Factor = 40 a $Log(\frac{300}{1})$



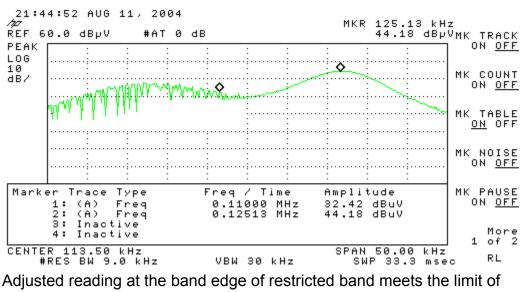
#### Sample Calculation:

Adjusted Reading = Reading – Pre Amp(factor) + Antenna(factor) + Cable(factor) – distance(factor)

Date:	Date: 12-Aug-04 Company: Locknetics Work Order:						E0655					
Engineer:	Mairaj Hussa	in		EUT Desc:	VIP5100	0, 5500, 993	Series					
	Freque	ncy Range:	30 - 1000	ЛНz				I	Measuremer	nt Distance:	3 m	
Notes:	Detector: QP RBW: 120KH	lz; VBW 1M⊦	łz						EU.	Г Max Freq:	16MHz	
Antenna			Preamp	Antenna	Cable	Adjusted				F	CC Class I	3
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fai
v	43.0	40.7	21.4	12.8	0.8	32.9				40.0	-7.1	Pass
v	44.5	38.6	21.4	11.9	0.8	29.9				40.0	-10.1	Pass
v	84.5	35.0	21.4	8.5	1.2	23.3				40.0	-16.7	Pass
v	86.0	35.7	21.4	8.7	1.2	24.2				40.0	-15.8	Pass
v	90.65	40.8	21.4	9.6	1.2	30.2				43.5	-13.3	Pass
v	92.19	48.4	21.4	9.9	1.2	38.1				43.5	-5.4	Pass
h	719.0	26.1	20.7	20.1	4.3	29.8				46.0	-16.2	Pass
Table	e Result:	Pass	by	-5.4	dB				Wa	orst Freq:	92.19	MHz
Tost Sito	Test Site: "T" Pre-Amp: Green		Green	Cable: 65 ft RG8A/U			Analyzer: Red Antenna: Green					

Page 6 of 17

## Band Edge at Restricted Band



 $26.77 dB\mu V/m$  given in FCC 15.209. Please see table on page 6.

Page 7 of 17

## **AC Line Conducted Emission Measurements**

Engineer:	02-Sep-04 Zhu Xin Pen		E	UT Desc:	Locknetics VIP 5100, 5500	) and 993 se	eries				Work Order: Test Site:	
	RBW: 9kHz, Yellow-Black	, VBW:30kH:	z, 10Hz VE	W for AVE	readings.							
	0.15-30Mhz			Othe	er Equipment:				Spectr	rum Analyzer:	Black	
	Q.P. Re	adings	Ave. R	adings	Impedance Factor	-		FCC/	CISPR B	FCC/	CISPR B	Overall
requency (MHz)	<b>QP1</b> (dBµV)	QP2 (dBµV)	<b>ΑV1</b> (dBµV)	<b>ΑV2</b> (dBµV)	(dB)	Limit (dBµV)	Margin dB	qp Limit (dBµV)	<b>qp Margin</b> dB	AVE Limit (dBµV)	AVE Margin dB	Result (Pass/Fa
0.15	30.6	28.4			20.0			66.0	-15.4	56.0	-5.4	Pass
0.16 0.22	28.1 23.8	21.0 24.0			20.0 20.0			65.4 62.7	-17.3 -18.7	55.4 52.7	-7.3 -8.7	Pass Pass
0.36	20.0	19.4			20.0			58.7	-18.7	48.7	-8.7	Pass
6.10 6.93	5.0 15.0	3.0 8.6			20.0 20.0			60.0 60.0	-35.0 -25.0	50.0 50.0	-25.0 -15.0	Pass Pass
8.80 16.69	17.5 12.5	6.6 9.9			20.0 20.0			60.0 60.0	-22.5 -27.5	50.0 50.0	-12.5 -17.5	Pass Pass
17.45	19.8	19.6			20.0			60.0	-20.2	50.0	-10.2	Pass

#### LIMITS

Quasi-Peak:  $250\mu$ V = 47.9dB $\mu$ V in the range 450kHz to 30MHz [47 CFR 15.207(a) Revised as of October 1, 2001]

**Note:** On July 12, 2004, FCC adopts the conducted emissions limits of the European CISPR 22 standard as outlined below

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

\*Decreases with the logarithm of the frequency.

[47 CFR 15.207(a) Revised as of October 1, 2002; amended by ET Docket 98-80; FCC 02-157, published in the Federal Register Vol. 67, No. 132, on Wednesday, July 10, 2002]

# Test Equipment Used

SPECTRUM ANALYZERS	IM ANALYZERS RANGE		D	REV. 30-JU SN ASSE		
	9kHz-1.8GHz	MN MF			00024	CALIBRATION D
RED		8591E H		3441A03559		26-MAY-2005
WHITE	9kHz-22GHz	8593E H		U01252	00022	04-MAR-2005
BLUE	9kHz-1.8GHz	8591E H		A00227	00070	30-SEP-2004
YELLOW	9kHz-2.9GHz	8594E HI		A01958	00100	08-AUG-2004
GREEN	9kHz-26.5GHz	8593E H		A03618	00143	10-OCT-2004
BLACK	9kHz-12.8GHz	8596E HI	D 3710	A00944	00337	15-AUG-2004
Yellow-Black	20Hz-40.0MHz	3585A HI	2504A05219		00030	02-DEC-2004
ORANGE	9kHz-26.5GHz	E4407B HI	D US39	0039440975 00394		03-JUN-2005
LISNS/MEASUREMENT	RANGE	MN	MFR	SN	ASSET	CALIBRATION D
PROBES	40.11.000.011					
RED	10kHz-30MHz	8012-50-R-24-BNC	SOLAR	956348	00753	02-APR-2005
BLUE	10kHz-30MHz	8012-50-R-24-BNC	SOLAR	956349	00752	02-APR-2005
Yellow-Black	10кHz-30MHz	8012-50-R-24-BNC	SOLAR	984735	00248	02-APR-2005
ORANGE	10кHz-30MHz	8012-50-R-24-BNC	Solar	903707	00754	02-APR-2005
Gold	10кHz-30MHz	8012-50-R-24-BNC	SOLAR	984734	00247	02-APR-2005
WHITE-BLACK	10кHz-30MHz	8610-50-TS-100-N	SOLAR	972019	00678	02-APR-2005
BLACK	10ĸHz-30MHz	8610-50-TS-100-N	SOLAR	972017	00675	02-APR-2005
RED-BLACK	10kHz-30MHz	8610-50-TS-100-N	SOLAR	972016	00677	02-APR-2005
BLUE-BLACK	10kHz-30MHz	8610-50-TS-100-N	SOLAR	972018	00676	02-APR-200
BLUE MONITORING PROBE	0.01-150MHz	91550-2	TEGAM	12350	00807	21-MAY-200
		91550-2				
YELLOW MONITORING PROBE	0.01-150MHz	91550-2	ETS	50972	00493	24-NOV-2004
GREEN CURRENT TRANSFORMER	40Hz-20MHz	150	PEARSON	10226	00793	03-APR-200
CISPR LINE PROBE	150KHz-	N/A	C-S	01	00805	20-DEC-2004
CISPR TELCO VOLTAGE PROBE	30MHz 150ĸHz-	CS A/C-10	C-S	CS01	00296	11-SEP-2004
CISPR 22 TELCO ISN	30MHz 9ĸHz-30MHz	FCC-TLISN-T4	FISCHER	20115	00746	15-OCT-2004
			TIOOHER	20110	00140	10 001 200
<b>OPEN AREA TEST SITE</b>	(OATS)	FCC CODE	IC CODE	VCCI	CODE	CALIBRATION D
SITE F	, ,	93448	IC 2762-F	R-1	688	25-MAR-2005
SITE T		93448	IC 2762-T	R-9		25-MAR-200
SITE A		93448	IC 2762-A	R-9		25-MAR-200
SITE M BUBBLE (HP FACILI	<b>T</b> \/)	93448 IC 2762-M N/A N/A		R-9 R-14		25-MAR-2005 16-MAY-2005
	11)	IN/A	N/A	K-14	+07	10-IVIA 1-2003
Line Conducted Tes	T SITES	FCC CODE	IC CODE	VCCI	CODE	CALIBRATION D
EMI 1	UNEO	93448	N/A	C-1		01-MAY-2006
EMI 2		93448 N/A				01-MAY-2006
EMI 3		93448	N/A	C-1802 C-1803		01-MAY-2006
BUBBLE (HP FACILI	TY)	N/A	N/A	U-1	000	16-MAY-2008
PREAMPS / ATTENUATORS /						
FILTERS	RANGE	MN	MFR	SN	ASSET	CALIBRATION D
Red	0.10-2000MHz	ZFL-1000-LN	C-S	N/A	00798	31-MAR-200
BLUE	0.01-2000MHz	ZFL-1000-LN	C-S	N/A	00759	26-JUL-2005
BLUE-BLACK	0.01-2000MHz	ZFL-1000-LN	C-S	N/A	00800	31-MAR-200
GREEN	0.01-2000MHz	ZFL-1000-LN	C-S	N/A	00802	27-FEB-2005
UNLLIN	0.01-2000MHz	ZFL-1000-LN	C-S	N/A	00799	27-FEB-2005
		ZFL-1000-LN ZFL-1000-LN				
BLACK		ZEL-1000-LN	C-S	N/A	00765	27-FEB-2005
Black Orange	0.01-2000MHz			426643	00760	21-JUL-2005
Black Orange White	1-20GHz	SMC-12A	C-S			
Black Orange White Yellow-Black	1-20GHz 1-20GHz	SMC-12A SMC-12A	C-S	535055	00801	21-JUL-2005
Black Orange White	1-20GHz 1-20GHz 1-20GHz	SMC-12A	C-S C-S		00801 00761	21-JUL-2005 21-JUL-2005
Black Orange White Yellow-Black	1-20GHz 1-20GHz	SMC-12A SMC-12A	C-S C-S	535055		
Black Orange White Yellow-Black Orange-Black	1-20GHz 1-20GHz 1-20GHz	SMC-12A SMC-12A SMC-12A	C-S C-S	535055 637367	00761 00758	21-JUL-2005
Black Orange White Yellow-Black Orange-Black HF (Yellow)	1-20GHz 1-20GHz 1-20GHz 18-26.5GHz	SMC-12A SMC-12A SMC-12A AFS4-18002650-60-8P-	C-S C-S 4 C-S	535055 637367 467559	00761	21-JUL-2005 20-JUL-2005

Page 9 of 17

## FCC ID:P2GVIPFP

ANTENNAS	RANGE	MN	Mfr	SN	ASSET	CALIBI	RATION DUE
GREEN BILOG	30MHz-2GHz	CBL6112B	CHASE	2742	00620	06-A	APR-2006
GREEN-BLACK BILOG	30MHz-2GHz	CBL6112B	CHASE	2412	00127	06	JAN-2006
GREEN-RED BILOG	30MHz-2GHz	CBL6112B	CHASE	2435	00990		APR-2006
RED BILOG	30MHz-1GHz	3143	EMCO	1270	00042		/AR-2005
BLUE BILOG	30MHz-1GHz	3143	EMCO	1271	00803		/AR-2005
GRAY BILOG	26MHz-2GHz	3141	EMCO	9703-1038	00066	20	05(EMI) / 21-JUN- 005(RFI)
YELLOW-BLACK BILOG	20-2000MHz	CBL6140A	CHASE	1112	00126		05(EMI) / 25-JUN- 005(RFI)
YELLOW HORN	1-18GHz	3115	EMCO	9608-4898	00037		/AY-2005
BLACK HORN	1-18GHz	3115	EMCO	9703-5148	00056		JUN-2005
ORANGE HORN	1-18GHz	3115	EMCO	0004-6123	00390		JUN-2005
HF (WHITE) HORN	18-26.5GHz	801-WLM	WAVELINE	00758	00758		JUL-2005
SMALL LOOP (RENTAL)	10kHz-30MHz	PLA-130/A	ARA	1009	TELOGY	11-F	EB-2006
SMALL LOOP	9ĸHz-30MHz	PLA-130/A	ARA	1024	00755	23-F	EB-2006
LARGE LOOP	20Hz-5MHz	6511	EMCO	9704-1154	00067	12-N	IOV-2005
ACTIVE MONOPOLE	30Hz-30MHz	3301B	EMCO	3824	00068		/AY-2005
INDUCTION COIL	50-60Hz	1000-4-8	C-S	N/A	00778		SEP-2004
ADJUSTABLE DIPOLE	30-1000MHz	3121C	EMCO	1370	00757		JUN-2005
ADJUSTABLE DIPOLE	30-1000MHz	3121C	EMCO	1371	00756	26	JUN-2005
RE101 LOOP SENSOR	30Hz-100кHz	RE101-	C-S	N1/A	00818	07	JAN-2005
		13.3CM	0-5	N/A		07-0	JAIN-2003
RS101 RADIATING LOOP	30Hz-100ĸHz	RS101-12CM	C-S	N/A	00819	07-	JAN-2005
RS101 LOOP SENSOR	30Hz-100ĸHz	RS101-4CM	C-S	N/A	00820		JAN-2005
NOTOT LOOP GENGOR		10101-4CM	0-0	11/7	00020	07-0	JAN-2003
Mixers/Diplexers	RANGE	MN	MFR		SN	Asset	CALIBRATION DU
Mixer / Horn		11970A/28-442-	HP/ATM	22224000			
	26.5-40 GHz	6			00/A046903-01	00369	09-AUG-2004
Mixer / Horn	40-60 GHz	M19HW/A	OML	U3	0110-1	00821	03-JAN-2005
Mixer / Horn	60-90 GHz	M12HW/A	OML	E3	0110-1	00822	03-JAN-2005
MIXER / HORN	90-140 GHz	MO8HW/A	OML	F2	1206-1	00811	05-DEC-2004
MIXER / HORN	140-220 GHz	MO5HW/A	OML		1206-1	00812	05-DEC-2004
DIPLEXER	140 220 0112	DPL.26	OML	02	N/A	00812	05-DEC-2004
DIFLEXER		DI L.20	ONIL			00015	03-020-2004
Absorbing	RANGE	NANI		McD	CN	ASSET	
<b>C</b> LAMPS		MN		Mfr	SN		CALIBRATION DU
FISCHER CLAMP	30-1000MHz	F-201-23мм	FI	SCHER	10	00081	16-JAN-2006
						A	<u></u>
EFT		MN	Mfr		SN	ASSET	CALIBRATION DU
EFT DIRECT COUPLING	Cap	N/A	C-S		01		00 14 11 0000
			00		01	00794	29-JAN-2006
					-		
ESD GENERATORS	ľ	MN	Mfr		ŝN	ASSET	CALIBRATION DU
GREEN	NS	MN G435	Mfr Schaffner	000	SN 0839	ASSET 00763	CALIBRATION DU 02-DEC-2004
	NS NS	MN G435 G435	MFR Schaffner Schaffner	000	ŝN	Asset 00763 00762	CALIBRATION DU
GREEN	NS NS	MN G435	Mfr Schaffner	000 001	SN 0839	ASSET 00763	CALIBRATION DU 02-DEC-2004
Green Red Yellow	NS NS 9	MN G435 G435 30D	MFR Schaffner Schaffner ETS	000 001	SN 0839 1625 01	ASSET 00763 00762 00673	CALIBRATION DU 02-DEC-2004 09-DEC-2004 16-JUN-2005
Green Red Yellow	NS NS	MN G435 G435 30D SN	MFR Schaffner Schaffner ETS Asset	000 001	SN 0839 1625 01	Asset 00763 00762	CALIBRATION DU 02-DEC-2004 09-DEC-2004 16-JUN-2005
GREEN RED YELLOW BESTEMC-2 M	NS NS 9: IN MFR	MN G435 G435 30D SN SN 199824-	MFR Schaffner Schaffner ETS	000 001	SN 0839 1625 01 CAL	ASSET 00763 00762 00673 BRATION DUE	CALIBRATION DU 02-DEC-2004 09-DEC-2004 16-JUN-2005
Green Red Yellow	NS NS 9: IN MFR	MN G435 G435 30D SN 199824-	MFR Schaffner Schaffner ETS Asset	000 001	SN 0839 1625 01 CAL	ASSET 00763 00762 00673	CALIBRATION DU 02-DEC-2004 09-DEC-2004 16-JUN-2005
GREEN RED YELLOW BESTEMC-2 M BLUE 711-	NS NS 9: IN MFR 1100 SCHAFF	MN G435 G435 30D S NER 199824- 002SC 200122-	MFR Schaffner Schaffner ETS Asset	000 00 2	SN 0839 1625 01 CAL 28-JUL-20	ASSET 00763 00762 00673 BRATION DUE 05 (SURGE/D+	CALIBRATION DU 02-DEC-2004 09-DEC-2004 16-JUN-2005
GREEN RED YELLOW BESTEMC-2 M	NS NS 9: IN MFR 1100 SCHAFF	MN G435 G435 30D S NER 199824- 002SC 200122-	MFR SCHAFFNER SCHAFFNER ETS ASSET 00117	000 00 2	SN 0839 1625 01 CAL 28-JUL-20	ASSET 00763 00762 00673 BRATION DUE 05 (SURGE/D+	CALIBRATION DU 02-DEC-2004 09-DEC-2004 16-JUN-2005
GREEN RED YELLOW BEST EMC-2 M BLUE 711-7 RED 711-7	IN MFR 1100 SCHAFF	MN G435 G435 30D Solution SN NER 002SC NER 074SC	MFR SCHAFFNER SCHAFFNER ETS ASSET 00117 00623	000 00 2	SN 0839 1625 01 28-JUL-20 2005 (Surge) /	ASSET 00763 00762 00673 BRATION DUE 05 (SURGE/D+ 28-JUL-2005 (I (EFT)	CALIBRATION DU 02-DEC-2004 09-DEC-2004 16-JUN-2005 : !/EFT) D+I) / 05-NOV-2004
GREEN RED YELLOW BEST EMC-2 M BLUE 711-	IN MFR 1100 SCHAFF	MN G435 G435 30D SN NER 199824- 002SC 200122-	MFR SCHAFFNER SCHAFFNER ETS ASSET 00117	000 00 2	SN 0839 1625 01 CAL 28-JUL-20	ASSET 00763 00762 00673 BRATION DUE 05 (SURGE/D+) 28-JUL-2005 (I	CALIBRATION DU 02-DEC-2004 09-DEC-2004 16-JUN-2005 : !/EFT) D+I) / 05-NOV-2004
GREEN RED YELLOW BEST EMC-2 M BLUE 711-7 RED 711-7	NS NS 91 1100 SCHAFF 1100 SCHAFF 1100 SCHAFF	MN G435 G435 30D Solution SN NER 002SC NER 074SC	MFR SCHAFFNER SCHAFFNER ETS ASSET 00117 00623	000 00 2 24-JUN-	SN 0839 1625 01 28-JUL-20 2005 (Surge) /	ASSET 00763 00762 00673 BRATION DUE 05 (SURGE/D+ 28-JUL-2005 (I (EFT)	CALIBRATION DU 02-DEC-2004 09-DEC-2004 16-JUN-2005 : !/EFT) D+I) / 05-NOV-2004
GREEN RED YELLOW BEST EMC-2 M BLUE 711- RED 711- RED 711- CHAMBERS AND STRIPLIN RFI 1 CHAMBER	NS NS 91 N MFR 1100 SCHAFF 1100 SCHAFF 1100 SCHAFF	MN G435 G435 30D E SN NER 199824- 002SC NER 002SC NER 074SC MN ER COMPACT	MFR SCHAFFNER SCHAFFNER ETS ASSET 00117 00623 MFR PANASHIEL	000 00 2 24-JUN-	SN 0839 1625 01 CAL 28-JUL-20 2005 (Surge) / SN N/A	ASSET 00763 00762 00673 BRATION DUE 05 (SURGE/D+ 28-JUL-2005 (I (EFT) ASSET 00797	CALIBRATION DU 02-DEC-2004 09-DEC-2004 16-JUN-2005 //EFT) D+I) / 05-NOV-2004 CALIBRATION DU 25-JUN-2005
GREEN RED YELLOW BEST EMC-2 M BLUE 711- <sup>-</sup> RED 711- <sup>-</sup> RED 711- RED 711- REJ 2 CHAMBER RFI 1 CHAMBER RFI 2 CHAMBER	NS NS 91 N MFR 1100 SCHAFF 1100 SCHAFF 1100 SCHAFF	MN G435 G435 30D Solution Solut	MFR SCHAFFNER ETS ASSET 00117 00623 MFR PANASHIEL LINDGREM	000 00 2 24-JUN-	SN 0839 1625 01 CAL 28-JUL-20 2005 (Surge) / SN N/A 13329	ASSET 00763 00762 00673 BRATION DUE 05 (SURGE/D+ 28-JUL-2005 (I (EFT) ASSET 00797 00795	CALIBRATION DU 02-DEC-2004 09-DEC-2004 16-JUN-2005 //EFT) D+I) / 05-NOV-2004 CALIBRATION DU 25-JUN-2005 21-JUN-2005
GREEN RED YELLOW BEST EMC-2 M BLUE 711- <sup>-</sup> RED 711- <sup>-</sup> RED 711- <sup>-</sup> RED 711- RED 711- REJ 2 CHAMBER RFI 2 CHAMBER RFI 2 CHAMBER RFI 3 STRIPLINE	NS NS 91 N MFR 1100 SCHAFF 1100 SCHAFF 1100 SCHAFF 1100 SCHAFF 1100 SCHAFF	MN G435 G435 30D SOU SOU SOU SOU SOU SOU SOU SOU	MFR SCHAFFNER ETS ASSET 00117 00623 MFR PANASHIEL LINDGREN C-S	000 00' 2 24-JUN- 	SN D839 1625 01 CAL 28-JUL-20 2005 (SURGE) / SN N/A 13329 N/A	ASSET 00763 00762 00673 BRATION DUE 05 (SURGE/D+ 28-JUL-2005 (I (EFT) ASSET 00797 00795 00796	CALIBRATION DU 02-DEC-2004 09-DEC-2004 16-JUN-2005 //EFT) D+I) / 05-NOV-2004 CALIBRATION DU 25-JUN-2005 21-JUN-2005 22-JUL-2005
GREEN RED YELLOW BEST EMC-2 M BLUE 711- <sup>-</sup> RED 711- <sup>-</sup> RED 711- RED 711- REJ 2 CHAMBER RFI 1 CHAMBER RFI 2 CHAMBER	NS NS 91 N MFR 1100 SCHAFF 1100 SCHAFF 1100 SCHAFF 1100 SCHAFF 1100 SCHAFF	MN G435 G435 30D Solution Solut	MFR SCHAFFNER ETS ASSET 00117 00623 MFR PANASHIEL LINDGREM	000 00' 2 24-JUN- 	SN 0839 1625 01 CAL 28-JUL-20 2005 (Surge) / SN N/A 13329	ASSET 00763 00762 00673 BRATION DUE 05 (SURGE/D+ 28-JUL-2005 (I (EFT) ASSET 00797 00795	CALIBRATION DU 02-DEC-2004 09-DEC-2004 16-JUN-2005 //EFT) D+I) / 05-NOV-2004 CALIBRATION DU 25-JUN-2005 21-JUN-2005
GREEN RED YELLOW BEST EMC-2 M BLUE 711- <sup>-</sup> RED 711- <sup>-</sup> RED 711- <sup>-</sup> RED 711- <sup>-</sup> REJ 2 CHAMBER RFI 2 CHAMBER RFI 2 CHAMBER RFI 3 STRIPLINE ENVIRONMENTAL (SAFETY	NS NS 91 N MFR 1100 SCHAFF 1100 SCHAFF 1100 SCHAFF 1100 SCHAFF 04' × 07' SI 04' × 07' SI	MN G435 G435 30D E SN NER 199824- 002SC 200122- 074SC MN ER COMPACT HIELDING SYSTEM N/A TH-31S	MFR SCHAFFNER ETS ASSET 00117 00623 MFR PANASHIEL LINDGREN C-S B-M-A INC	000 00' 2 24-JUN- 	SN D839 1625 01 CAL 28-JUL-20 2005 (Surge) / SN N/A 13329 N/A 2245	ASSET 00763 00762 00673 BRATION DUE 05 (SURGE/D+ 28-JUL-2005 (I (EFT) ASSET 00797 00795 00796 00321	CALIBRATION DU 02-DEC-2004 09-DEC-2004 16-JUN-2005 (/EFT) D+I) / 05-NOV-2004 CALIBRATION DU 25-JUN-2005 21-JUN-2005 22-JUL-2005 31-DEC-2004
GREEN RED YELLOW BEST EMC-2 M BLUE 711- <sup>-</sup> RED 711- <sup>-</sup> RED 711- <sup>-</sup> CHAMBERS AND STRIPLIN RFI 1 CHAMBER RFI 2 CHAMBER RFI 3 STRIPLINE ENVIRONMENTAL (SAFETY HARMONIC ANALYZE	NS NS 91 N MFR 1100 SCHAFF 1100 SCHAFF	MN G435 G435 30D SESSA NER 199824- 002SC 200122- 074SC MN SER COMPACT HIELDING SYSTEM N/A TH-31S	MFR SCHAFFNER ETS ASSET 00117 00623 MFR PANASHIEL LINDGREN C-S B-M-A INC	000 00' 2 24-JUN- _D N 2.	SN D839 1625 01 CAL 28-JUL-20 2005 (SURGE) / SN N/A 13329 N/A 2245 SN	ASSET 00763 00762 00673 BRATION DUE 05 (SURGE/D+ 28-JUL-2005 (I (EFT) ASSET 00797 00795 00796 00321 ASSET	CALIBRATION DU 02-DEC-2004 09-DEC-2004 16-JUN-2005 //EFT) D+I) / 05-NOV-2004 CALIBRATION DU 25-JUN-2005 21-JUN-2005 22-JUL-2005 31-DEC-2004 CALIBRATION DU
GREEN RED YELLOW BEST EMC-2 M BLUE 711- <sup>-</sup> RED 711- <sup>-</sup> RED 711- <sup>-</sup> RED 711- <sup>-</sup> RED 711- <sup>-</sup> REJ 2 CHAMBER RFI 2 CHAMBER RFI 2 CHAMBER RFI 3 STRIPLINE ENVIRONMENTAL (SAFETY	NS NS 91 N MFR 1100 SCHAFF 1100 SCHAFF	MN G435 G435 30D E SN NER 199824- 002SC 200122- 074SC MN ER COMPACT HIELDING SYSTEM N/A TH-31S	MFR SCHAFFNER ETS ASSET 00117 00623 MFR PANASHIEL LINDGREN C-S B-M-A INC	000 00' 2 24-JUN- _D N 2.	SN D839 1625 01 CAL 28-JUL-20 2005 (Surge) / SN N/A 13329 N/A 2245	ASSET 00763 00762 00673 BRATION DUE 05 (SURGE/D+ 28-JUL-2005 (I (EFT) ASSET 00797 00795 00796 00321	CALIBRATION DU 02-DEC-2004 09-DEC-2004 16-JUN-2005 //EFT) D+I) / 05-NOV-2004 CALIBRATION DU 25-JUN-2005 21-JUN-2005 22-JUL-2005
GREEN RED YELLOW BEST EMC-2 M BLUE 711- RED 711- RED 711- CHAMBERS AND STRIPLIN RFI 1 CHAMBER RFI 2 CHAMBER RFI 2 CHAMBER RFI 3 STRIPLINE ENVIRONMENTAL (SAFETY HARMONIC ANALYZE HFTS	NS NS 91 1100 SCHAFF 1100 SCHAFF	MN G435 G435 30D SALESS SALESS SALESS MN SER COMPACT HIELDING SYSTEM N/A TH-31S MN S842A	MFR SCHAFFNER ETS ASSET 00117 00623 MFR PANASHIEL LINDGREN C-S B-M-A INC MFR HP	000 00' 2 24-JUN- _D N 2.	SN D839 1625 01 CAL 28-JUL-20 2005 (Surge) / SN N/A 13329 N/A 2245 SN 1A-00169	ASSET 00763 00762 00673 BRATION DUE 05 (SURGE/D+ 28-JUL-2005 (I (EFT) ASSET 00797 00795 00796 00321 ASSET 00738	CALIBRATION DU 02-DEC-2004 09-DEC-2004 16-JUN-2005 (VEFT) D+I) / 05-NOV-2004 CALIBRATION DU 25-JUN-2005 21-JUN-2005 21-JUN-2005 31-DEC-2004 CALIBRATION DU 03-DEC-2005
GREEN RED YELLOW BEST EMC-2 M BLUE 711- <sup>-</sup> RED 711- <sup>-</sup> RED 711- <sup>-</sup> CHAMBERS AND STRIPLIN RFI 1 CHAMBER RFI 2 CHAMBER RFI 3 STRIPLINE ENVIRONMENTAL (SAFETY HARMONIC ANALYZE	NS NS 93 1100 SCHAFF 1100 SCHAFF	MN G435 G435 30D SESSA NER 199824- 002SC 200122- 074SC MN SER COMPACT HIELDING SYSTEM N/A TH-31S	MFR SCHAFFNER ETS ASSET 00117 00623 MFR PANASHIEL LINDGREN C-S B-M-A INC	000 00' 2 24-JUN- 	SN D839 1625 01 CAL 28-JUL-20 2005 (SURGE) / SN N/A 13329 N/A 2245 SN	ASSET 00763 00762 00673 BRATION DUE 05 (SURGE/D+ 28-JUL-2005 (I (EFT) ASSET 00797 00795 00796 00321 ASSET	CALIBRATION DU 02-DEC-2004 09-DEC-2004 16-JUN-2005 //EFT) D+I) / 05-NOV-2004 CALIBRATION DU 25-JUN-2005 21-JUN-2005 22-JUL-2005 31-DEC-2004 CALIBRATION DU

Page 10 of 17

## 

## 

REPORT:EE							FCC ID:P2	
Amplifiers	RANGE		/IN	Mfr	SN	ASSET		BRATION DUE
Red Green	0.5-1000N 0.5-1000N		1000B 1000B	AR AR	18708 23423	00032 00123		JUN-2005 JUN-2005
BLUE	0.01-250N	1Hz 754	<b>\250</b>	AR	19165	00039	19-JAN-2005	(CRFI) / 23-JUN-2005 (RFI)
BLACK	0.01-250N	1Hz 754	\250	AR	23411	00122		RFI)/ 25-JUN-2005(RF
ORANGE	0.01-250N	1Hz 754	\250	AR	26827	00367		05(CRFI) / 02-JUN- 005(RFI)
HP489A	1.0-2.0GI	Hz HP4	489A	HP 4	49-00762	00971		FEB-2005
HP491C	2.0-4.0GI	Hz HP4	491C	HP 4	49-00638	00764	16-	OCT-2004
HP493A	4.0-8.0GI	Hz HP4	493A	HP 17	71402242	00085	16-	OCT-2004
HP493A	4.0-8.0GI	Hz HP4	493A	HP 4	49-00562	00771	01-	DEC-2004
(Spare) HP495A	7.0-12.0G	Hz HP	495A	HP 9	04-00237	00086	16-	OCT-2004
FIELD	RANGE		451				Asset	
PROBES		N	ΛN	MFR	ł	SN		CALIBRATION DU
RED	0.01-1000N		4422	HOLAD		90369		20-MAY-2005
GREEN	0.01-1000N	IHZ HI-4	4422	Holad	AY	97363	3 00136	11-MAY-2005
SIGNAL GENER		RANGE	MN	Μ		SN	ASSET	CALIBRATION DU
RED		0.09-2000MHz	HP8648B	Н		3847U02		15-JAN-2005
BLUE		0.1-1000MHz		Н		3426A00		20-JUL-2005
GREEN		0.09-2000MHz 0.1-1000MHz		Н		3623A02		10-SEP-2004
		0.1-1000MHz 15MHz	HP8648B HP33120A	H		3537A01 US36004		26-MAY-2005 12-NOV-2004
BLACK (TELE YELLOW		15MHz	HP33120A	Н		US36004 US36014		26-MAY-2004
BLUE-WHI		0.1Hz-13MHz	HP3312A	Н		1432A07		09-MAR-2005
SWEEPEF		0.01-20.0GHz	HP83752A	H		3610A01		04-APR-2005
Вигк Ілјестіс		RANGE	MN	N/	lfr	SN	Asset	CALIBRATION D
GREE		0.01-100MHz	95236-1		TS	50215		22-JUN-2005
Red		0.01-100MHz	95236-1		TS	34026		07-JUL-2005
CDN NETW	ORKS	RANGE		MN	Ν	/IFR	ASSET	CALIBRATION DUE
BLACK		0.10-100MHz	7	20A M-2	(	C-S	00783	22-JUN-2005
BLUE		0.10-100MHz	2	15A M-3	(	C-S	00806	22-JUN-2005
Orange	Ξ	0.10-100MHz	2	15A M-2	(	C-S	00786	22-JUN-2005
Red		0.10-100MHz	2	15A M-3		C-S	00780	22-JUN-2005
WHITE		0.10-100MHz	2	15A M-3		C-S	00782	22-JUN-2005
Yellow-Bl	ACK	0.10-100MHz	2	15A M-3		C-S	00784	22-JUN-2005
BLUE-BLA	CK	0.10-100MHz	2	15A M-3		C-S	00781	22-JUN-2005
GREEN		0.10-100MHz	2	30A M-3	(	C-S	00779	22-JUN-2005
YELLOW	/	0.10-100MHz	2	30A M-5		C-S	00804	22-JUN-2005
BLUE-WH	ITE	0.10-100MHz	2	15A M-5	(	C-S	00788	22-JUN-2005
YELLOW (R		0.10-100MHz	z 100Ω	RESISTOR NW	ик С	C-S	00810	10-SEP-2004
GREEN (RI	ES)	0.10-100MHz	z 1000	RESISTOR NW	ик (	C-S	00785	09-MAR-2005
Sur	GE <b>G</b> ENERA	TORS	Ν	IN	Mfr	SN	ASSET	CALIBRATION DU
	IT WAVEFORM		TM	/M-5	CDI	0039	82 00323	17-JUN-2005
UNIVERS	AL SURGE GE	ENERATOR		<i>I</i> 15	CDI	0039		09-JUN-2005
THREE F	PHASE COUPL	ING NWK	3	CN	CDI	0034	55 00325	09-JUN-2005
	US PLUGIN N			S PLUGIN	CDI	N/A	A 00842	09-JUN-2005
	OUS PLUGIN			JS PLUGIN	C-S	N/A		09-JUN-2005
	OUS PLUGIN			JS PLUGIN	C-S	N/A		09-JUN-2005
		// EXTENSION BO		JS PLUGIN	C-S	N/A		
	CONTROLLER			GE 8000	HAEFELY			11-JUN-2005
	G/DECOUPLIN			0 900	HAEFELY			11-JUN-2005
	IPULSE MODU			1900	HAEFELY			11-JUN-2005
		5κVDC, 18μF		HVCC	C-S	01		15-OCT-2004
NEDQ	SURGE GENE			I/A	C-S	N/A		17-JUN-2005
	SUDOF CEN	IERATOR		IOUS	C-S	N/A		23-JUN-2005
2x10u5				700US	C-S	N/A	A 00847	17-JUN-2005
2x10uS 10x700u	JS SURGE GE						00768	18-SEP-2004
2x10uS 10x700u				I/A	C-S	N/A	A 00768	18-SEP-2004
2x10uS 10x700u	JS SURGE GE JRGE RESISTO		N	I/A FR	C-S		Asset	18-SEP-2004 CALIBRATION DU 16-JUL-2005

Page 11 of 17

#### FCC ID:P2GVIPFP

<b>O</b> SCILLOSCOPES	MN		MFR		SN	ASSET	CALIBRATION DUE
OSCILLOSCOPE 100MHZ	TDS 22	0	TEKTRONIX		B068748	00885	02-JUN-2005
OSCILLOSCOPE 100MHZ (SAFETY)	TDS 34	0	Tektronix		B012357	00737	16-OCT-2004
OSCILLOSCOPE 100MHZ (TELECOM)	54645	4	HP	US	636320452	00103	02-JUL-2005
<b>RMS</b> VOLTMETERS/CURRENT CL	AMP	MN	Mnfr		SN	ASSET	CALIBRATION DUE
TRUE-RMS MULTIMETER		79111	Fluke	7	1700298	00769	15-OCT-2004
TRUE-RMS MULTIMETER		177	FLUKE	8	33390024	00973	08-MAR-2005
TRUE-RMS MULTIMETER (REFEREN	ICE)	177	FLUKE	8	33390025	00974	08-MAR-2005
TRUE-RMS CLAMP METER (SAFET	Y)	36	FLUKE	e	8805882	00700	05-MAR-2005
Power/Noise Meters		MN	Mfr		SN	ASSET	CALIBRATION DUE
Power Meter		435B	HP	2	2445A11012	00773	07-APR-2005
Power Sensor		8481A	HP	2	2702A61351	00774	07-APR-2005
PSOPHOMETER		2429	BRUEL & KJ	AER	1237642	00585	18-FEB-2005
TRANSMISSION LINE TESTER (DBR	vC)	185T	AMREL		998658	00823	08-MAR-2005
<b>OVERVOLTAGE CHAMBERS</b>	MN	Mfr		SN		ASSET	CALIBRATION DUE
72kW Power Fault Simulator	OV1	C-S		N/A		00792	31-MAR-2005
POWER FAULT SIMULATOR	OV2	C-S		N/A		00116	31-MAR-2005
DIPOLE TAPE MEASURES	MN		Mfr		SN	ASSET	CALIBRATION DUE
26FT TAPE #1	2338CN	ΛE	LUFKIN		C3166-1	00776	26-FEB-2005
26FT TAPE #2	2338CN	ΛE	LUFKIN		C3166-2	00777	26-FEB-2005
METEOROLOGICAL METERS		MN		Mfr	SN	ASSET	CALIBRATION DUE
TEMP./HUMIDITY/ATM. PRESSURE	7400	PERCEPT		Davis	N/A	00965	19-JAN-2005
GAUGE	7400						
TEMPERATURE /HUMIDITY GAUGE		THG-912	-	HUGER	4000562	2 00789	08-JAN-2005
TRACEABLE CLOCKS	MN		Mfr		SN	ASSET	CALIBRATION DUE
5003	5003		CONTROL CO	MPANY	99026940	00808	09-DEC-2004
CONSUMABLES	SPE	C.	Mfr		STOCK/MN	ASSET	CALIBRATION DUE
CONSUMABLES NEBS CHEESECLOTH	SPE 26-28		Mfr ED&D		STOCK/MN ACC-01	Asset N/A	CALIBRATION DUE N/A

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

## Terms And Conditions

Paragraph 1. SERVICES. LABORATORY will:

- 1.1 Use the degree of care and skill ordinarily exercised by and consistent with the standards of the profession.
- Perform all technical services in substantial accordance with the generally accepted laboratory principles and practices.
- 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:

- 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
- 2.2 Designate a person to act as CLIENT's representative with respect to LABORATORY's services to be performed on behalf of the 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.
- 2.3 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.
  - (b) Furnish such labor and equipment needed by LABORATORY to handle samples at the LABORATORY and to facilitate the specified technical services.

#### Paragraph 3. GENERAL CONDITIONS:

- 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.
- 3.2 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.
- 3.3 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.
- 3.4 THE ONLY WARRANTY MADE BY LABORATORY IN CONNECTION WITH ITS SERVICE PERFORMED HEREUNDER IS THAT IT WILL USE THAT DEGREE OF CARE AND SKILL AS SET FORTH IN PARAGRAPH 1 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 been authorized, CLIENT agrees to view such test reports as inconclusive and preliminary.
- 3.6 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 extreme caution.
- and should be applied with 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.
- LABORATORY's control.
   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.
- to the LABORATORY are satisfied, whichever is later.
   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:

- 4.1 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 coverage to cover claims for bodily injury, death or property damage as may arise from the performance of its services.
- 4.2 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.

Page 13 of 17

4.3 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 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.
- 5.2 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.
- 5.3 Amounts overdue from CLIENT to LABORATORY shall be charged interest at a rate of 11/2% per month.

#### 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 CLIENT agrees that this test report shall not be used to claim product endorsement by A2LA or ANSI or any agency of the U.S. Government.
- 6.3 CLIENT agrees that test results presented herein relate only to the sample tested by the LABORATORY.

## A2LA Accreditation

#### FCC ID:P2GVIPFP

SCOPE OF ACC	REDITATION TO ISO/IEC 17025-1999	EN 55011 1991, 1998	Limits and methods of measurement of radio disturbance characteristics of industrial, scientific and medical (ISM) radio-
SCOLL OF ACC	CURTIS-STRAUS <sup>1</sup>	SABS CISPR 11:1997	frequency equipment. Industrial, scientific and medical (ISM) radio-frequency equipment -
	527 Great Road Littleton, MA 01460		Electromagnetic disturbance characteristics Limits and methods of measurement
Barry Q	uinlan Phone: 978-486-8880	Canada ICES-001 1998 CNS13803	Industrial, scientific and medical radio frequency generators Industrial, Scientific and Medical Instrument
	ELECTRICAL	AS/NZS 2064: 1997	Limits and methods of measurement of electromagnetic disturbance
Valid until: July 31, 2005	Certificate Number: 1627-01		characteristics of industrial, scientific and medical (ISM) radio- frequency equipment.
		CSA C108.8 - M1983	Electromagnetic Emission from Data Processing Equipment and
In recognition of the successful completion of laboratory to perform the following Electroma	f the A2LA evaluation process, accreditation is granted to this agnetic Compatibility (EMC), Telecommunications, and Product	CISPR 13:1996, 1998, 2001	Electronic Office Machines Limits and methods of measurement of radio interference
Safety tests:			characteristics of sound and television broadcast receivers and
Electromagnetic Compatibility (EMC)		EN 55013: 1990, 2001	associated equipment. Sound and television broadcast receivers and associated equipment:
	t Transient testing; Radiated Immunity testing; Conducted Immunity		Electromagnetic compatibility. Part 1: Specification for limits and methods of measurement of radio disturbance characteristics of
testing; Lightning Immunity testing; Voltage	Dips, Interrupts and Voltage Variations testing; Magnetic Immunity		broadcast receivers and associated equipment.
testing; RF Power measurements; Frequency Harmonic emissions testing; Light flicker test	Stability measurements; Longitudinal Induction measurements; ing; Low frequency disturbance voltage testing; Disturbance Power	EN 55013 Amend 12 1994	Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment.
measurements		SABS CISPR 13: 1996	Amendment 12 Limits and methods of measurement of radio interference
EMC Standards	Title	SABS CISFK 15, 1990	characteristics of sound and television broadcast receivers and
Emissions		CNS 13439	associated equipment. Broadcast receiver and associated equipment Limits and methods of
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
CNS13438 1994	characteristics of information technology equipment. Limits and methods of measurement of radio interference	CISPR 14 1993	television broadcast receivers and associated equipment. Limits and methods of measurement of radio disturbance
	characteristics of information technology equipment.	(except discontinuous disturbances)	characteristics of electrical motor- operated and thermal appliances for
EN55022:1994 and 1998	Limits and methods of measurement of radio disturbance characteristics of information technology equipment.	EN 55014 1993, 1997	household and similar purposes, electric tools and electric apparatus. Limits and methods of measurement of radio disturbance ( <i>except</i>
SABS CISPR 22:1997	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement	discontinuous disturbances)	characteristics of electrical motor- operated and thermal appliances for household and similar purposes, electric tools and similar electric
Canada ICES-003 1997	Digital apparatus		apparatus.
AS/NZS 3548 1995	Australian/New Zealand Standard Limits and methods of measurement of radio disturbance characteristics of information	AS/NZS 1044: 1995 discontinuous disturbances)	Limits and methods of measurement of radio disturbance (except characteristics of electrical motor- operated and thermal appliances for
CISPR 11 1990, 1997, 1999	technology equipment Limits and methods of measurement of electromagnetic		household and similar purposes, electric tools and similar electric
CISPR 11 1990, 1997, 1999	Limits and methods of measurement of electromagnetic disturbance characteristics of industrial, scientific and medical		apparatus.
	(ISM) radio-frequency equipment.	Immunity CNS13783-1	Household Electrical Appliances
		SABS CISPR 14-1 1993	Electromagnetic compatibility - Requirements for household
			appliances, electric tools and similar apparatus Part 1: Emission – Product family standard
	ormed at the laboratory listed above and the satellite facility	SABS CISPR 14-2 1997 + A1:2001	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
(A2LA Cert No. 1627-01) 10/31/03	Page Lot II	(A2LA Cert No. 1627-01) 10/31/03	Page 2 of 11
(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 similar apparatus.	(A2LA Cert. No. 1627-01) 10/31/03 EN 61000-6-1: 1997, 2001	Page 2 of 11 Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics	EN 61000-6-1: 1997, 2001	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only)	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment.	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and	EN 61000-6-1: 1997, 2001	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterrupible Power Systems (UPS), Part 2: EMC
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only)	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. Information technology equipment – Immunity characteristics –	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements Information technology equipment – Immunity Characteristics – Limits
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only)	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment.	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements Information technology equipment – Immunity Characteristics – Limits and methods of measurement.
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment – Immunity characteristics – Limits and methods of measurement	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. 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:	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. Information technology equipment – Immunity characteristics – Limits and methods of measurement Approval and test specification – Medical electrical Equipment	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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.
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 European Union Basic EMC Standards	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. 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 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. 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 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997 (excluding Annex A3) EN 61326 1998	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterrupible Power Systems (UPS), Part 2: EMC requirements Information for Uninterrupible Power Systems (UPS), Part 2: EMC requirements 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
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 European Union Basic EMC Standards EN 61000-4-2: 1995, 1999, 2001	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. 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 measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997 (excluding Annex A3) EN 61326 1998 EN 61547 1996	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS), Part 2: EMC requirements Information for Uninterruptible Power Systems (UPS), Part 2: EMC requirements 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 Equipment for general lighting purposes – EMC immunity requirements
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 European Union Basic EMC Standards	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. 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 measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic technipues. Section 3: Addited, radio-frequency,	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997 (excluding Annex A3) EN 61326 1998	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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 Equipment for general lighting purposes – EMC immunity requirements Alarm Systems. Part 4: Electromagnetic compatibility. Product family standard: Immunity requirements for components of fire, intruder and
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 European Union Basic EMC Standards EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3:1997, 1998, 2002 AS/NZS 61000 4.3 1999	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. 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 (EMC). Part 4: Testing and measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic field immunity test	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997 (excluding Annex A3) EN 61326 1998 EN 61547 1996 EN 50130-4 1996	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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 apparatus for professional use. Part 1: Emission Electromagnetic compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control and laboratory use – EMC requirements Equipment for measurement, control and laboratory use – EMC requirements Alarm Systems. Part 4: Electromagnetic compatibility. Product family standard: Immunity requirements for components of fire, intruder and social alarm systems.
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 European Union Basic EMC Standards EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3:1997, 1998, 2002	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment. Electromagnetic compatibility – Requirements for aftery – Collateral Standard: Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic field immunity test Electromagnetic tedinaminity test Electromagnetic field immunity testing and measurement techniques. Section 4: Testing and	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997 (excluding Annex A3) EN 61326 1998 EN 61547 1996 EN 50130-4 1996 EN 55104 1995	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterrupible Power Systems (UPS). Part 2: EMC requirements 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 Equipment for general lighting purposes – EMC immunity requirements Alarm Systems. Part 4: Electromagnetic compatibility. Product family standard: Immunity requirements for components of fire, intruder and social alarm systems.
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 European Union Basic EMC Standards EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3:1997, 1998, 2002 AS/NZS 61000 4.3 1999	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. 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 (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic field immunity test Electromagnetic compatibility (EMC). Part 4: Testing and	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997 (excluding Annex A3) EN 61326 1998 EN 61547 1996 EN 50130-4 1996	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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 Equipment for general lighting purposes – EMC immunity requirements Alarm Systems. Part 4: Electromagnetic compatibility. Product family standard: Immunity requirements for components of fire, intruder and social alarm systems. Electortoal englibility immunity – requirements for household appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound isandas. Part 2:
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 European Union Basic EMC Standards EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3: 1997, 1998, 2002 AS/NZS 61000.4.3 1999 EN 61000-4-5 1995 EN 61000-4-5 1995 AS/NZS 61000.4.5 1999	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment – Immunity characteristics – Limits and methods of measurement and test specification – Medical electrical Equipment - General requirements for safety – Collateral Standard: Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 4: Electrical fast transient/burst immunity test – Basic EMC publication (EMC) Part 4: Testing and measurement techniques. Section 5: Surge immunity test.	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997 (excluding Annex A3) EN 61326 1998 EN 61547 1996 EN 50130-4 1996 EN 55104 1995	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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 Haurm Systems. Part 4: Electromagnetic compatibility. Product family standard: Immunity requirements for components of fire, intruder and social alarm systems. Electromagnetic compatibility immunity – requirements for household appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound signals. Part 2: Electromagnetic compatibility ifor equipment. Medical electrical equipment Part 1: genarl requirements for safery
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 European Union Basic EMC Standards EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3: 1997, 1998, 2002 AS/NZS 61000.4.3 1999 EN 61000-4-4 1995 EN 61000-4-5 1995	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. 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 (EMC). Part 4: Testing and measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic fedi munity test – Electromagnetic fedi munity test – Electromagnetic fedi munity test – Basic EMC publication (EMC) Part 4: Testing and measurement techniques. Section 5: Surge immunity test – Basice EMC publication (EMC) Part 4: Testing and measurement techniques. Section 5: Surge immunity test – Basice EMC publication (EMC) Part 4: Testing and measurement techniques. Section 5: Surge immunity test – Basice EMC publication (EMC) Part 4: Testing and measurement techniques. Section 5: Surge immunity test – Basice EMC publication 5:	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 (excluding Annex A3) EN 61326 1998 EN 61547 1996 EN 55104 1995 EN 50083-2 1995 EN 60601-1-2: 1993, 2002	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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 apparatus 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 Equipment for general lighting purposes – EMC immunity requirements Alarm Systems. Part 4: Electromagnetic compatibility. Product family standard: Immunity requirements for components of fire, intruder and social alarm systems. Electromagnetic compatibility immunity – requirements for household appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound signals. Part 2: Electromagnetic compatibility for equipment. Medical electrical equipment Part 1: general requirements for safety Section 2: Collateral standard: Electromagnetic compatibility – requirements and tests
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 European Union Basic EMC Standards EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3: 1997, 1998, 2002 AS/NZS 61000.4.3 1999 EN 61000-4-5 1995 EN 61000-4-5 1995 EN 61000-4-5 1995 EN 61000-4-5 1996 EN 61000-4-5 1996 EN 61000-4-5 1999 EN 61000-4-5 1999 EN 61000-4-5 1999	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. 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 (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic field immunity test Electromagnetic mount is a section 3: Radiated, radio-frequency, electromagnetic mount is test. – Basic EMC publication (EMC) Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic mount is test. – Basic EMC publication (EMC) Part 4: Testing and measurement techniques. Section 5: Surge immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Immunity to conducted disturbances, induce by araido-frequency fields.	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997 (excluding Annex A3) EN 61326 1998 EN 61547 1996 EN 50130-4 1996 EN 55104 1995 EN 50083-2 1995	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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 Electromagnetic compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control professional use. Part 2: Immunity Equipment for general lighting purposes – EMC immunity requirements Alarm Systems. Part 4: Electromagnetic compatibility. Product family standard. Immunity requirements for components of fire, intruder and social alarm systems. Electromagnetic compatibility immunity – requirements for household appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound signals. Part 2: Electromagnetic compatibility for equipment. Medical electrical equipment Part 1: general requirements for safety Section 2: Collateral standard: Electromagnetic compatibility – requirements and tests Adjustable speed electrical power drive systems. Part 3: EMC product
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 European Union Basic EMC Standards EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3: 1997, 1998, 2002 AS/NZS 61000.4.3 1999 EN 61000-4-4 1995 EN 61000-4-4 1995 EN 61000-4-5 1995 EN 61000-4-5 1995 EN 61000-4-5 1995 EN 61000-4-5 1995	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment – Immunity characteristics – Limits and methods of measurement and test specification – Medical electrical Equipment equipment. General requirements for safety – Collateral Standard: Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 4: Electrical fast transient/burst immunity test – Basic EMC publication (EMC) Part 4: Testing and measurement techniques. Section 5: Surge immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Immunity to conducted disturbances, induce by radio-frequency fields. Electromagnetic techniques. Section 6: Immunity to conducted disturbances, induce by radio-frequency fields. Electromagnetic techniques. Section 7: Aurt 4: Testing and measurement techniques. Section 8: Art 4: Testing and measurement techniques. Section 6: Immunity to conducted disturbances, induce by radio-frequency fields. Electromagnetic techniques. Section 7: Aurt 4: Testing and measurement techniques. Section 7: Aurt 4: Testing and measurement techniques. Section 7: Aurt 4: Testing and measurement techniques. Section 7: Aurt 7: A	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 (excluding Annex A3) EN 61326 1998 EN 61547 1996 EN 55104 1995 EN 50083-2 1995 EN 60601-1-2: 1993, 2002	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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 Equipment for general lighting purposes – EMC immunity requirements Alarm Systems. Part 4: Electromagnetic compatibility. Product family standard: Immunity requirements for components of fire, intruder and social alarm systems. Electromagnetic compatibility immunity – requirements for household appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound signals. Part 2: Electromagnetic compatibility immunity – requirements for safety Section 2: Collateral standard: Electromagnetic compatibility – requirements and tests Adjustable speed electrical power drive systems. Part 3: EMC product standard including specific test methods. Disturbances in supply systems caused by household appliances and
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 European Union Basic EMC Standards EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3: 1997, 1998, 2002 AS/NZS 61000.4.3: 1999 EN 61000-4-4: 1995 EN 61000-4-5: 1995 EN 61000-4-6: 1996 EN 61000-4-6: 1999	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. 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 Istandard: Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic field immunity test – Basic EMC Publication (EMC) Part 4: Testing and measurement techniques. Section 4: Electromagnetic technaptibility (EMC). Part 4: Testing and measurement techniques. Section 4: Lectrical fast transient/burst immunity test – Basic EMC Publication (EMC) Part 4: Testing and measurement techniques. Section 5: Surge immunity test Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Immunity to conducted disturbances, induce by radio-frequency fields. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 5: Immunity to conducted disturbances, induce by radio-frequency fields.	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997 (excluding Annex A3) EN 61326 1998 EN 61347 1996 EN 55104 1995 EN 50083-2 1995 EN 60601-1-2: 1993, 2002 IEC 1800-3 1995	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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 apparatus Part 2: Immunity Electrical equipment for measurement, control and laboratory use – EMC requirements Equipment for general lighting purposes – EMC immunity requirements Alarm Systems. Part 4: Electromagnetic compatibility. Product family standard: Immunity requirements for components of fre, intruder and social alarm systems. Electromagnetic compatibility immunity – requirements for household appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound signals. Part 2: Electromagnetic compatibility for equipment. Medical electrical equipment Part 1: general requirements for safety Section 2: Collateral standard: Electromagnetic compatibility – requirements and tests Adjustable speed electrical power drive systems. Part 3: EMC product standard including specific test methods. Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 2: Harmonics Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 2: Harmonics
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 European Union Basic EMC Standards EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3: 1997, 1998, 2002 AS/NZS 61000.4.3 1999 EN 61000-4-4 1995 EN 61000-4-5 1995 AS/NZS 61000.4.6 1999 EN 61000-4-8 1994	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment. 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 (EMC). Part 4: Testing and measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 4: Reating and measurement techniques. Section 5: Surge immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Immunity to conducted disturbances, induce by radio-frequency fields. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Immunity to conducted disturbances, induce by radio-frequency fields. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Rower frequency magnetic field immunity test. (EMC) Part 4: Testing and measurement techniques. Section 1: Voltage dips, short interruptions and voltage Variations	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997 (excluding Annex A3) EN 61326 1998 EN 61547 1996 EN 50130-4 1996 EN 50130-4 1996 EN 50083-2 1995 EN 60601-1-2: 1993, 2002 IEC 1800-3 1995 EN 60555 Part 2 1987 EN 60555 Part 2 1987	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements Information for Uninterruptible Power Systems (UPS). Part 2: EMC requirements Information technology equipment – Immunity Characteristics – Limit 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 Equipment for general lighting purposes – EMC immunity requirements Alarm Systems. Part 4: Electromagnetic compatibility. Product family standard. Immunity requirements for components of fire, intruder and social alarm systems. Electromagnetic compatibility immunity – requirements for household appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound signals. Part 2: Electromagnetic compatibility for equipment. Medical electrical equipment Part 1: general requirements for safety Section 2: Collateral standard: Electromagnetic compatibility – requirements and tests Adjustable speed electrical power drive systems. Part 3: EMC product standard including specific test methods. Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 2: Yuage fluctuations.
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 <i>European Union Basic EMC Standards</i> EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3: 1997, 1998, 2002 AS/NZS 61000.4.3 1999 EN 61000-4-4 1995 EN 61000-4-5 1995 AS/NZS 61000.4.6 1999 EN 61000-4-8 1994	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment. Information technology equipment. Approval and test specification – Medical electrical Equipment – General requirements for safety – Collateral Standard: Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic field immunity test Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 4: Electrical fast transient/burst immunity test Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Electrical fast transient/burst immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Surge immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Immunity to conducted disturbances, induce by radio-frequency fields. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Newer frequency magnetic field immunity test. (EMC) Part 4: Testing and measurement techniques. Section 11: Voltage dis, short interruptions and voltage Variations immunity tests. Electromagnetic compatibility (EMC). Part 2: Environment, Electromagnetic compatibility (EMC). Part 2: Environment,	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997 (excluding Annex A3) EN 61326 1998 EN 61547 1996 EN 50130-4 1996 EN 50130-4 1996 EN 50083-2 1995 EN 60601-1-2: 1993, 2002 IEC 1800-3 1995 EN 60555 Part 2 1987 EN 60555 Part 3 1987 EN 61000-3-2: 1998	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterrupible Power Systems (UPS), Part 2: EMC requirements Information for Uninterrupible Power Systems (UPS), Part 2: EMC requirements 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 Equipment for general lighting purposes – EMC immunity requirements Alarm Systems. Part 4: Electromagnetic compatibility. Product family standard: Immunity requirements for components of fire, intruder and social alarm systems. For television and sound signals. Part 2: Electromagnetic compatibility immunity – requirements for household appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound signals. Part 2: Electromagnetic compatibility for equipment. Medical electrical equipment Part 1: general requirements for safety Section 2: Collateral standard: Electromagnetic compatibility – requirements and tests Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 3: Harmonics Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 3: Charge fluctuations. Electromagnetic enquibility (ECQ). Part 3: Limits Section 2: Limits for harmonic current missions
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 European Union Basic EMC Standards EN 61000-4-3: 1995, 1999, 2001 EN 61000-4-3: 1995, 1999, 2002 AS/NZS 61000.4.3 1999 EN 61000-4-4 1995 EN 61000-4-5 1995 AS/NZS 61000.4.6 1999 EN 61000-4-8 1994 EN 61000-4-11 1994	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television breadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. 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 (EMC). Part 4: Testing and measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic field immunity test – Basic EMC Publication (Electromagnetic techniques. Section 4: Testing and measurement techniques. Section 4: Testing and measurement techniques. Section 4: Testing and measurement techniques. Section 5: Starge immunity test – Basic EMC publication (EMC) Part 4: Testing and measurement techniques. Section 5: Surge immunity test – Basic EMC publication (EMC) Part 4: Testing and measurement techniques. Section 5: Surge immunity test – Basic EMC publication (EMC) Part 4: Testing and measurement techniques. Section 5: Surge immunity test – Basic EMC publication 5: (Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 8: Power frequency magnetic field immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 8: Power frequency magnetic field immunity test. Electromagnetic sompatibility (EMC). Part 4: Testing and measurement techniques. Section 8: Power frequency magnetic field insurbased and voltage Variations immunity test. Electromagnetic sompatibility (EMC). Part 2: Environment, Section 2: Compatibility Part 5: Devironment, Section 2: Compatibil	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 (excluding Annex A3) EN 61326 1998 EN 61326 1998 EN 61547 1996 EN 50130-4 1996 EN 50130-4 1996 EN 50083-2 1995 EN 60001-1-2: 1993, 2002 IEC 1800-3 1995 EN 60555 Part 2 1987 EN 60555 Part 3 1987 EN 61000-3-2: 1995, 2000 AS/NZS 61000.3: 1998	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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 apparatus 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 Equipment for general lighting purposes – EMC immunity requirements Alarm Systems. Part 4: Electromagnetic compatibility. Product family standard: Immunity requirements for components of fire, intruder and social alarm systems. Electromagnetic compatibility immunity – requirements for household appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound signals. Part 2: Electromagnetic compatibility for equipment. Medical electrical equipment Part 1: general requirements for safety Section 2: Collateral standard: Electromagnetic compatibility – requirements and tests Aljustable speed electrical power drive systems. Part 3: EMC product standard ruluding specific test methods. Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 3: Voltage fluctuations. Electromagnetic compatibility (EMC). Part 3: Limits Section 2: Limits for harmonic current emissions Electromagnetic compatibility (EMC). Part 3: Limits Section 2: Limits
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 European Union Basic EMC Standards EN 61000-4-3: 1997, 1998, 2002 AS/NZS 61000.4.3 1999 EN 61000-4-4 1995 EN 61000-4-5 1995 AS/NZS 61000.4.6 1999 EN 61000-4-8 1994 EN 61000-4-11 1994	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment. Information technology equipment. Approval and test specification – Medical electrical Equipment – General requirements for safety – Collateral Standard: Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic field immunity test Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 4: Electrical fast transient/burst immunity test Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Electrical fast transient/burst immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Surge immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Immunity to conducted disturbances, induce by radio-frequency fields. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Newer frequency magnetic field immunity test. (EMC) Part 4: Testing and measurement techniques. Section 11: Voltage dis, short interruptions and voltage Variations immunity tests. Electromagnetic compatibility (EMC). Part 2: Environment, Electromagnetic compatibility (EMC). Part 2: Environment,	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997 (excluding Annex A3) EN 61326 1998 EN 61326 1998 EN 61547 1996 EN 50130-4 1996 EN 50130-4 1995 EN 60001-4:2: 1993, 2002 IEC 1800-3 1995 EN 60555 Part 2 1987 EN 60555 Part 2 1987 EN 60555 Part 3 1987 EN 6000-3-2: 1995, 2000 AS/NZS 61000.3.2 1998 EN 61000-3-3 1995	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements Information for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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 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 Equipment for general lighting purposes – EMC immunity requirements Section agnetic compatibility immunity – requirements for household appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound signals. Part 2: Electromagnetic compatibility for equipment. Medical electrical equipment Part 1: general requirements for safety Section 2: Collateral standard: Electromagnetic compatibility – requirements and tests Adjustable speed electrical power drive systems. Part 3: EMC product standard including specific test methods. Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 2: Humonics Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 3: Junits Section 2: Limits for harmonic current emissions Electromagnetic compatibility (EMC). Part 3: Limits Section 2: Limits for laramonic current e
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 European Union Basic EMC Standards EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3: 1997, 1998, 2002 AS/NZS 61000.4.3 1999 EN 61000-4-4: 1995 EN 61000-4-5 1995 AS/NZS 61000.4.5 1999 EN 61000-4-6 1996 AS/NZS 61000.4.6 1999 EN 61000-4-11 1994 EN 61000-4-11 1994 ENV 61000-2-2 1993	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. Information technology equipment – Immunity characteristics – Limits and methods of measurement 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 (EMC). Part 4: Testing and measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 4: Electrical fast transient/burst immunity test Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 4: Electrical fast transient/burst immunity test Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 7: Bicterical fast transient/burst immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Immunity to conducted disturbances, induce by ratio-frequency fields. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Immunity to conducted disturbances, induce by ratio-frequency fields. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Immunity to conducted disturbances, induce by ratio-frequency fields. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Nower frequency magnetic field immunity test. Electromagnetic compatibility (EMC). Part 2: Environment, Section 2: Compatibility (EMC). Part 2: Environment, Section 2: Compatibility (EMC). Part 2: Environme	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 (excluding Annex A3) EN 61326 1998 EN 61326 1998 EN 61547 1996 EN 50130-4 1996 EN 50130-4 1996 EN 50083-2 1995 EN 60001-1-2: 1993, 2002 IEC 1800-3 1995 EN 60555 Part 2 1987 EN 60555 Part 3 1987 EN 61000-3-2: 1995, 2000 AS/NZS 61000.3: 1998	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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 Equipment for general lighting purposes – EMC immunity requirements Alarm Systems. Part 4: Electromagnetic compatibility. Product family standard: Immunity requirements for components of fire, intruder and social alarm systems. Electromagnetic compatibility immunity – requirements for household appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound signals. Part 2: Electromagnetic compatibility for equipment. Medical electrical equipment Part 1: general requirements for safety Section 2: Collateral standard: Electromagnetic compatibility – requirements and tests Adjustable speed electrical power drive systems. Part 3: EMC product standard including specific test methods. Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 2: Harmonics Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 3: Limits Section 2: Limits for harmonic current emissions Electromagnetic compatibility (EMC). Part 3: Limits Section 2: Limits for harmonic current emissions Electromagnetic compatibility (EMC). Part 3: Limits Section 2: Limitation of vol
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 European Union Basic EMC Standards EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-2: 1995, 1999, 2002 AS/NZS 61000.4.3 1999 EN 61000-4-4 1995 EN 61000-4-4: 1995 EN 61000-4-6 1996 AS/NZS 61000.4.6 1999 EN 61000-4-1 1994 ENV 61000-4-1 1994 ENV 61000-2-2 1993 EU Product Family Standards	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. 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 (EMC). Part 4: Testing and measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic fold munity test – Basic EMC Publication (EMC) Part 4: Testing and measurement techniques. Section 5: Surge immunity test – Basic EMC publication (EMC) Part 4: Testing and measurement techniques. Section 5: Surge immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Electrical fast transien/burst immunity test – Basic EMC publication (EMC) Part 4: Testing and measurement techniques. Section 5: Surge immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Power frequency magnetic field immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 8: Power frequency magnetic field immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 8: Power frequency magnetic field immunity test. Electromagnetic source by radio-frequency of testing and measurement techniques. Section 8: Power frequency magnetic field immunity test. Electromagnetic source by the solver for tenniques. Section 11: Voltage dips, short interruptions and voltage Variations immunity test. Ele	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997 (excluding Annex A3) EN 61326 1998 EN 61326 1998 EN 61547 1996 EN 50130-4 1996 EN 50130-4 1995 EN 60001-4:2: 1993, 2002 IEC 1800-3 1995 EN 60555 Part 2 1987 EN 60555 Part 2 1987 EN 60555 Part 3 1987 EN 6000-3-2: 1995, 2000 AS/NZS 61000.3.2 1998 EN 61000-3-3 1995	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements Information for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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 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 Equipment for general lighting purposes – EMC immunity requirements Section agnetic compatibility immunity – requirements for household appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound signals. Part 2: Electromagnetic compatibility for equipment. Medical electrical equipment Part 1: general requirements for safety Section 2: Collateral standard: Electromagnetic compatibility – requirements and tests Adjustable speed electrical power drive systems. Part 3: EMC product standard including specific test methods. Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 2: Humonics Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 3: Junits Section 2: Limits for harmonic current emissions Electromagnetic compatibility (EMC). Part 3: Limits Section 2: Limits for laramonic current e
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 European Union Basic EMC Standards EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3: 1997, 1998, 2002 AS/NZS 61000.4.3 1999 EN 61000-4-4: 1995 EN 61000-4-5 1995 AS/NZS 61000.4.5 1999 EN 61000-4-6 1996 AS/NZS 61000.4.6 1999 EN 61000-4-11 1994 EN 61000-4-11 1994 ENV 61000-2-2 1993	<ul> <li>Immunity requirements for household appliances, tools and similar apparatus.</li> <li>Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment.</li> <li>Electromagnetic immunity of broadcast receivers and Associated equipment.</li> <li>Information technology equipment – Immunity characteristics – Limits and methods of measurement</li> <li>Information technology equipment – Immunity characteristics – Limits and methods of measurement</li> <li>Information technology equipment – Immunity characteristics – Limits and methods of measurement</li> <li>Approval and test specification – Medical electrical Equipment – General requirements for safety – Collateral Standard:</li> <li>Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication</li> <li>Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 4: Electrical fast transient/burst immunity test – Basic EMC Publication</li> <li>(EMC) Part 4: Testing and measurement techniques. Section 5: Surge immunity test.</li> <li>Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Immunity to conducted disturbances, induce by radio-frequency fields.</li> <li>Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 5: Surge immunity test.</li> <li>Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 11: Voltage dips, short interruptions and voltage Variations immunity tests.</li> <li>Electromagnetic compatibility (EMC). Part 2: Environment, Section 2: Compatibility levels for low-frequency conducted disturbances and signaling in public low-voltage power supply systems (IEC 1000-2-2:1990)</li> <!--</td--><td>EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997 (excluding Annex A3) EN 61326 1998 EN 61326 1998 EN 61547 1996 EN 50130-4 1996 EN 50130-4 1995 EN 60001-4:2: 1993, 2002 IEC 1800-3 1995 EN 60555 Part 2 1987 EN 60555 Part 2 1987 EN 60555 Part 3 1987 EN 6000-3-2: 1995, 2000 AS/NZS 61000.3.2 1998 EN 61000-3-3 1995</td><td>Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements Information for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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 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 Alarm Systems. Part 4: Electromagnetic compatibility. Product family standard: Immunity requirements for components of fire, intruder and social alarm systems. Electromagnetic compatibility immunity – requirements for household appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound signals. Part 2: Electromagnetic compatibility for equipment. Medical electrical equipment. Part 2: Herromagnetic compatibility – requirements and tests Adjustable speed electrical power drive systems. Part 3: EMC product standard including specific test methods. Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 3: Hurmonics Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 3: Limits Section 2: Limits for harmonic current emissions Electromagnetic compatibility (EMC), Part 3: Limits Section 2: Li</td></ul>	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997 (excluding Annex A3) EN 61326 1998 EN 61326 1998 EN 61547 1996 EN 50130-4 1996 EN 50130-4 1995 EN 60001-4:2: 1993, 2002 IEC 1800-3 1995 EN 60555 Part 2 1987 EN 60555 Part 2 1987 EN 60555 Part 3 1987 EN 6000-3-2: 1995, 2000 AS/NZS 61000.3.2 1998 EN 61000-3-3 1995	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements Information for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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 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 Alarm Systems. Part 4: Electromagnetic compatibility. Product family standard: Immunity requirements for components of fire, intruder and social alarm systems. Electromagnetic compatibility immunity – requirements for household appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound signals. Part 2: Electromagnetic compatibility for equipment. Medical electrical equipment. Part 2: Herromagnetic compatibility – requirements and tests Adjustable speed electrical power drive systems. Part 3: EMC product standard including specific test methods. Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 3: Hurmonics Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 3: Limits Section 2: Limits for harmonic current emissions Electromagnetic compatibility (EMC), Part 3: Limits Section 2: Li
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 <i>European Union Basic EMC Standards</i> EN 61000-4-3: 1997, 1998, 2002 AS/NZS 61000.4.3: 1999 EN 61000-4-4: 1995 EN 61000-4-4: 1995 EN 61000-4-4: 1995 EN 61000-4-4: 1999 EN 61000-4-8 1994 EN 61000-4-11 1994 ENV 61000-2-2 1993 <i>EU Product Family Standards</i> EN 50081-1 1992 EN 50081-2 1993	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment. Approval and test specification – Medical electrical Equipment – General requirements for safety – Collateral Standard: Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic field immunity test Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Electrical fast transient/burst immunity test – Basic EMC publication (EMC) Part 4: Testing and measurement techniques. Section 5: Surge immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Immunity to conducted disturbances, induce by radio-frequency fields. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Immunity to conducted disturbances, short interruptions and voltage Variations immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 11: Voltage dis, short interruptions and voltage Variations immunity tests. Electromagnetic compatibility (EMC). Part 2: Environment, Section 2: Comp	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997 (excluding Annex A3) EN 61326 1998 EN 61326 1998 EN 61547 1996 EN 50130-4 1996 EN 50130-4 1995 EN 60001-4:2: 1993, 2002 IEC 1800-3 1995 EN 60555 Part 2 1987 EN 60555 Part 2 1987 EN 60555 Part 3 1987 EN 6000-3-2: 1995, 2000 AS/NZS 61000.3.2 1998 EN 61000-3-3 1995	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements Information for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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 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 Alarm Systems. Part 4: Electromagnetic compatibility. Product family standard: Immunity requirements for components of fire, intruder and social alarm systems. Electromagnetic compatibility immunity – requirements for household appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound signals. Part 2: Electromagnetic compatibility for equipment. Medical electrical equipment. Part 2: Herromagnetic compatibility – requirements and tests Adjustable speed electrical power drive systems. Part 3: EMC product standard including specific test methods. Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 3: Hurmonics Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 3: Limits Section 2: Limits for harmonic current emissions Electromagnetic compatibility (EMC), Part 3: Limits Section 2: Li
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 European Union Basic EMC Standards EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3: 1997, 1998, 2002 AS/NZS 61000.4.3 1999 EN 61000-4-4: 1995 EN 61000-4-4: 1995 EN 61000-4-4: 1995 EN 61000-4-4: 1995 EN 61000-4-4: 1999 EN 61000-4-11 1994 EN 61000-4-11 1994 EN 061000-2-2 1993 EU Product Family Standards EN 50081-2 1993 EN 50082-1 1992, 1998	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment. Approval and test specification – Medical electrical Equipment – General requirements for safety – Collateral Standard: Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Raditade, radio-frequency, electromagnetic field immunity test Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 4: Electrical fast transient/barst immunity test Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 7: Surge immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Immunity to conducted disturbances, induce by radio-frequency fields. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Immunity to conducted disturbances, induce by radio-frequency fields. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 8: Power frequency magnetic field immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 8: Power frequency magnetic field isturbances and signaling in public low-voltage power supply systems (IEC 1000-2-2:1990) Electromagnetic capability – Generic emission standard. Part 1: Residential, commercial and light industry. (LS) Electromagnetic compatibility – Generic emission standard. Part 2: Ind	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997 (excluding Annex A3) EN 61326 1998 EN 61326 1998 EN 61547 1996 EN 50130-4 1996 EN 50130-4 1995 EN 60001-4:2: 1993, 2002 IEC 1800-3 1995 EN 60555 Part 2 1987 EN 60555 Part 2 1987 EN 60555 Part 3 1987 EN 6000-3-2: 1995, 2000 AS/NZS 61000.3.2 1998 EN 61000-3-3 1995	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements Information for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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 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 Alarm Systems. Part 4: Electromagnetic compatibility. Product family standard: Immunity requirements for components of fire, intruder and social alarm systems. Electromagnetic compatibility immunity – requirements for household appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound signals. Part 2: Electromagnetic compatibility for equipment. Medical electrical equipment. Part 2: Herromagnetic compatibility – requirements and tests Adjustable speed electrical power drive systems. Part 3: EMC product standard including specific test methods. Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 3: Hurmonics Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 3: Limits Section 2: Limits for harmonic current emissions Electromagnetic compatibility (EMC), Part 3: Limits Section 2: Li
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 <i>European Union Basic EMC Standards</i> EN 61000-4-3: 1997, 1998, 2002 AS/NZS 61000.4.3: 1999 EN 61000-4-4: 1995 EN 61000-4-4: 1995 EN 61000-4-4: 1995 EN 61000-4-4: 1999 EN 61000-4-8 1994 EN 61000-4-11 1994 ENV 61000-2-2 1993 <i>EU Product Family Standards</i> EN 50081-1 1992 EN 50081-2 1993	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. 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 Istandard: Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic field immunity test – Basic EMC Publication Electromagnetic field immunity test – Basic EMC Publication (EMC) Part 4: Testing and measurement techniques. Section 5: Surge immunity test – Basic EMC publication (EMC) Part 4: Testing and measurement techniques. Section 5: Surge immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 8: Rower frequency magnetic field immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 8: Power frequency magnetic field immunity tests. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 8: Power frequency magnetic field immunity tests. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 8: Power frequency magnetic field immunity tests. Electromagnetic compatibility (EMC). Part 2: Environment, Section 2: Compatibility (EMC). Part 2: Envir	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997 (excluding Annex A3) EN 61326 1998 EN 61326 1998 EN 61547 1996 EN 50130-4 1996 EN 50130-4 1995 EN 60001-4:2: 1993, 2002 IEC 1800-3 1995 EN 60555 Part 2 1987 EN 60555 Part 2 1987 EN 60555 Part 3 1987 EN 6000-3-2: 1995, 2000 AS/NZS 61000.3.2 1998 EN 61000-3-3 1995	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements Information for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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 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 Alarm Systems. Part 4: Electromagnetic compatibility. Product family standard: Immunity requirements for components of fire, intruder and social alarm systems. Electromagnetic compatibility immunity – requirements for household appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound signals. Part 2: Electromagnetic compatibility for equipment. Medical electrical equipment. Part 2: Herromagnetic compatibility – requirements and tests Adjustable speed electrical power drive systems. Part 3: EMC product standard including specific test methods. Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 3: Hurmonics Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 3: Limits Section 2: Limits for harmonic current emissions Electromagnetic compatibility (EMC), Part 3: Limits Section 2: Li
CISPR 14-2 1996, 1997 + A1:2001 CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 European Union Basic EMC Standards EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3: 1997, 1998, 2002 AS/NZS 61000.4.3 1999 EN 61000-4-4: 1995 EN 61000-4-4: 1995 EN 61000-4-4: 1995 EN 61000-4-4: 1995 EN 61000-4-4: 1999 EN 61000-4-11 1994 EN 61000-4-11 1994 EN 061000-2-2 1993 EU Product Family Standards EN 50081-2 1993 EN 50082-1 1992, 1998	Immunity requirements for household appliances, tools and similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment. 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 Istandard: Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 4: Electroical fast transient/barst immunity test – Basic EMC Publication (EMC) Part 4: Testing and measurement techniques. Section 5: Surge immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Immunity to conducted disturbances, induce by radio-frequency fields. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 8: Power frequency magnetic field immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 8: Power frequency magnetic field immunity test. Electromagnetic compatibility (EMC). Part 2: Environment, Section 2: Compatibility levels for low-frequency magnetic field intrunity test. Electromagnetic compatibility (EMC). Part 2: Environment, Section 2: Compatibility levels for low-frequency conducted disturbances and signaling in public low-voltage power supply systems (IEC 1000-2-2:1990)	EN 61000-6-1: 1997, 2001 EN 61000-6-2: 1998, 2001 EN 50091-2 1996 EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997 (excluding Annex A3) EN 61326 1998 EN 61326 1998 EN 61547 1996 EN 50130-4 1996 EN 50130-4 1995 EN 60001-4:2: 1993, 2002 IEC 1800-3 1995 EN 60555 Part 2 1987 EN 60555 Part 2 1987 EN 60555 Part 3 1987 EN 6000-3-2: 1995, 2000 AS/NZS 61000.3.2 1998 EN 61000-3-3 1995	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements Information for Uninterruptible Power Systems (UPS). Part 2: EMC requirements 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 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 Alarm Systems. Part 4: Electromagnetic compatibility. Product family standard: Immunity requirements for components of fire, intruder and social alarm systems. Electromagnetic compatibility immunity – requirements for household appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound signals. Part 2: Electromagnetic compatibility for equipment. Medical electrical equipment. Part 2: Herromagnetic compatibility – requirements and tests Adjustable speed electrical power drive systems. Part 3: EMC product standard including specific test methods. Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 3: Hurmonics Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 3: Limits Section 2: Limits for harmonic current emissions Electromagnetic compatibility (EMC), Part 3: Limits Section 2: Li

## Page 15 of 17

## FCC ID:P2GVIPFP

REPORT:EE0655	-1		FCC ID:P2GVIPFP
ETE EN 200 206 2 1007 1009	Electrometric commetibility of the first state of the	ENI 200 228 2.2001	Electrome matic compatibility and De House the Matter (EDNO)
ETS EN 300 386-2 1997, 1998, ETS EN 300 386 2000 v1.2.1, 2001 v1.3.1	Electromagnetic compatibility and radio spectrum matters (ERM); Telecommunication network equipment; Electromagnetic	EN 300 328-2:2001 v1.2.1	Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum
	compatibility (EMC) requirements; Part 2: Product family standard.	EN 201 480 1-2002	modulation techniques; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
ETS 300 132-1 1996	Equipment Engineering (EE); Power supply interface at the input to telecommunications equipment; Part 1: Operated by alternating current (ac) derived from direct current (dc)	EN 301 489-1:2002	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
sources ETS 300 132-2 1996	Equipment Engineering (EE); Power supply interface at the input to telecommunications equipment; Part 2: Operated by direct current (dc)	EN 60669-2-1:2002 Canada Radio Standards	Switches for household and similar fixed electrical installations Part 2-1: Particular requirements – Electronic switches
ETR 283 1997	Equipment Engineering (EE): Transient voltages at Interface	Canadian GL-36 1995	Industry Canada - technical requirements for low power Devices in the
A distributions.	on telecommunications direct current (DC) power	Canadian RSS-119 1999, 2000 Issue 6	2400 – 2483.5 MHz band. Industry Canada – Land mobile and fixed radio Transmitters and receivers. 27.41 to 960.0 MHz
EU radio standards (ETS) EN 300 385 v1.2.1: 1998, 1999	Electromagnetic compatibility and Radio spectrum matters	Canadian RSS-134 1996 & 2000, Issue 1 Rev 1	Industry Canada – 900 MHz narrowband personal communications services
EN 300 330 v1.2.1: 1998, 1999	(ERM); Electromagnetic Compatibility (EMC) standard for fixed radio links and ancillary equipment (ETS) Electromagnetic compatibility and Radio spectrum matters	Canadian RSS-210 2000 Issue 3, RFS29 1998	Industry Canada – Low power license-exempt radio 2001 Issue 5 communication devices Specification for Restricted Radiation Radio Apparatus (New Zealand)
ER 500 550 VI.2.1. 1770, 1777	(ERM); Short range devices (SRD); Technical characteristics and test methods for radio equipment in the range 9 kHz to 25	FCC Standards	
kHz	MHz and inductive loop systems in the frequency range 9 to 30 MHz	47 CFR FCC low power transmitters operating on frequencies below 1 GHz,	Scope A1
ETS 300 328 1996	Radio Equipment and Systems (RES); Wideband	emergency alert systems, unintentional	
transmission	systems; Technical characteristics and test conditions for data transmission equipment operating in the 2,4 GHz ISM band	radiators and ISM devices. 47 CFR FCC low power transmitters	Scope A2
and ETS EN 300 440 v1.2.1 1999	using spread spectrum modulation techniques Electromagnetic compatibility and Radio spectrum matters	operating on frequencies above 1 GHz, with the exception of spread spectrum	
test	(ERM); Short range devices; Technical characteristics and methods for radio equipment to be used in the 1 Ghz to 40	devices. 47 CFR FCC Unlicensed Personal Scope	A3
Ghz	frequency range	Communications System (PCS) devices	
EN 301 893:2002 v1.2.1	Broadband Radio Access Networks (BRAN); 5 GHz (draft) high performance RLAN; Harmonized EN covering Essential	47 CFR FCC Unlicensed National Scope Information Infrastructure devices and	Λ4
ETS 300 836-1:1998	requirements of article 3.2 of the R&TTE Directive Broadband Radio Access Networks (BRAN); High	low power transmitters using spread spectrum techniques.	
Performance Conformance	Radio Local Area Network (HIPERLAN) Type 1; testing specification; Part 1: Radio Type approval and Radio	47 CFR FCC Personal mobile Scope Radio Services in the following FCC	Bl
EN301 489-17:2002	Frequency (RF) conformance test specification Electromagnetic compatibility and Radio spectrum Matters	Rule Parts 22, 24, 25, 27. 47 CFR FCC General Mobile Radio	82
v1.2.1	(ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for	Scope Services in the following FCC Rule Parts 22, 74, 90, 95, 97.	
	2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment	47 CFR FCC Maritime and Aviation Scope RadioServices in 47 CFR Parts	B3
	performance KLAN equipment	80 and 87	
		47 CFR FCC Microwave Radio Services Scope in 47 CFR Parts 21, 74 and 101.	B4
		(A2LA Cert. No. 1627-01) 10/31/03	Page 6 of 11
(A2LA Cert. No. 1627-01) 10/31/03	Page 5 of 11		
FCC/OST MP-5 1986 scientific	FCC (Federal Communications Commission) methods Of measurement of radio noise emissions from industrial, and medical equipment.	TIA/EIA-IS-968	Telecommunications Telephone Terminal Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone Network
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
ANSI EMC Standards ANSI C63.4: 1992, 1999, 2001	American National Standard for methods of measurement of	TIA-968-A	Telecommunications Telephone Terminal Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone
electronic	radio-noise emissions for low-voltage electrical and equipment in the range of 9 kHz to 40GHz.	T1.TRQ.6-2001	Network Technical Requirements for SHDSL, HDSL2, HDSL4 Digital
ANSI C63.5 1988 compatibility –	American National Standard for electromagnetic radiated emissions measurements in electromagnetic		Subscriber Line Terminal Equipment to Prevent Harm to the Telephone Network Industry
	interference (EMI) control - calibration of antennas.	Canada VDSL 1 January 2003	Terminal Attachment Program Requirements and Test Methods for Issue Very-High-Bit-Rate Digital Subscriber Line (VDSL) Terminal
<i>IEEE EMC Standards</i> IEEE C62.41: 1980, 1991	IEEE recommended practice on surge voltages in low-voltage AC power circuits	AS/ACIF S002-2001	Equipment Analogue interworking and non-interference requirements for Customer Equipment for connection to the Public Switched Telephone
Swedish EMC Standards		AS/ACIF S016-2001	Network Requirements for Customer Equipment for connection to hierarchical
BAKOM 3336.3 1995 S)	Electromagnetic compatibility and electrical safety (EMC & for wired terminal equipment. Harmonization document	AS/ACIF S031-2001	digital interfaces Requirements for ISDN Basic Access Interface
	information over the OFCOM requirements.	AS/ACIF S038-2001	Requirements for ISDN Primary Rate Access Interface
South African EMC standards other than CISP.		AS/ACIF S043-2001	Requirements for Customer Equipment for Connection to a Metallic Local Loop Interface of a Telecommunications Network —
SABS 1718-1: 1996	South African Bureau of Standards: Specification for Gaming		Part 1: General Part 2: Broadband
	equipment. Part 1: Casino equipment.		Part 3: DC, Low Frequency AC and Voiceband
Japanese VCCI Standards VCCI V-3/99.05 1999	Technical Requirements	ITU-T G.703 HKTA 2028	Physical/electrical characteristics of hierarchical Digital interfaces Network connection specification for connection of CPE to the PTNs in
VCCI V-4/99.05 1999	Instruction for Test Conditions for Requirement under Test	НКТА 2029	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
Telecommunications Telecommunications Registration; General test	methods; Lightning surge; Drop testing; Balance testing; Signal	TBR 1 : 1995	Attachment requirements for terminal equipment to be connected to circuit switched data networks and leased circuits using a CCITT
power (metallic and longitudinal); Frequency n	heasurements; Pulse templates; Leakage testing; Impedance luding volume control); Protocol analysis and Jitter testing.		Recommendation X.21 interface, or at an interface physically, functionally and electrically compatible with CCITT Recommendation
Telecom Standards	Title		X.21 but operating at any data signaling rate up to, and including, 1 984 kbit/s
FCC 47 CFR Part 68 Telephone	Connection of terminal equipment to the telephone Terminal	TBR 2 : 1997	Attachment requirements for Data Terminal Equipment (DTE) to connect to Packet Switched Public Data Networks (PSPDNs) for CCITT
Scope	Equipment network. Analog and Digital Equipment. TCB	Recommendation X.25 interfaces at data CCITT Recommendations	
CS-03 Issue 8 1996 through amendment 5	C1. Specification for terminal equipment, terminal systems,		
TIA/EIA TED21 D 1009	Network protection devices, connection arrangements and hearing aids compatibility.		
TIA/EIA TSB31-B 1998	Bulletin Part 68 Rationale and Measurement Guidelines (Feb 1998)	(A2LA Cert. No. 1627-01)	10/31/03 Page 8 of 11
(A2LA Cert. No. 1627-01) 10/31/03	Page 7 of 11		

Page 16 of 17

#### FCC ID:P2GVIPFP

Accessibility tests; Energy Hazard measuremen Earthing tests; Limited power source measurem	Title Safety of information technology equipment including Amendments 1, 2, 3, and 4 electrical business Safety of information technology equipment, including	EN 61010-1 1993, 2001 measurement, control IEC 61010-1 2001 UL 61010B-1 2003 UL 3101-1 1993 requirements. CAN/CSA 1010-1 1999 (Including AM 2) UL 3111-1 1996 irequirements. UL 3121-1 1995 for safety. EN 60601-1 1995 (Including AM 2) UL 2601-1 1995 (Including AM 2) UL 2601-1 1997 (Including AM 2) UL 2601-1 1995 (Including AM 2) Extension (Including AM 2) UL 2601-1 1995 (Including AM 2) Extension (Incl	Electrical measuring and test equipment. Part 1: General Medical electrical equipment. Part 1: General requirements Medical electrical equipment Audio, video and similar electronic apparatus – Safety Audio/video and nusical instrument apparatus for Household, commercial and similar general use Australian/New Zealand Standard – Approval and test Specification – Mains operated electronic and related household and similar general use Audio, video and similar general use Commercial products Safety requirements for main operated electronic and related for household and similar general use. Radiation safety of laser products, equipment Classification, requirements and user's guide Safety of laser products – Part 2: Safety of optical systems
IEC 950 1991 Includes equipment. UL 1950 1998	Amendments 1, 2, 3, and 4 electrical business Safety of information technology equipment, including electrical business equipment.	requirements IEC 60825-1 2001 IEC 60825-2 2000-5 communication IEC 60825-4 1997-11	Safety of laser products Part 1: equipment Classification, and user's guide. Safety of laser products – Part 2: Safety of optical systems Safety of laser products – Part 4: Laser guards
CSA C22.2 No.950.95 UL 60950 2000 (A2LA Cert. No. 1627-01) 10/31/03 of 11	Safety of Information Technology Equipment (UL 1950) Safety of information technology equipment Page 9	IEC 60335-1 1995 ( <i>Including AM2 - 1997 &amp; AM 12 - 1997</i> EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994	Safety of household and similar electrical appliances ) Part 1: General requirements
		(A2LA Cert. No. 1627-01) 10/31/03 of 11	Page 10
UL 61010A-1 : 2002 EN 61010-1 : 2001 measurement, requirements AS/NZS 60950 : 2000 Environmental <sup>2</sup>	Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for control, and laboratory use - Part 1: General Safety information technology equipment		
Environmental Standards GR-63-CORE ETS 300 019 (vibration up to 1000Hz)	<u>Title</u> NEBS Requirements: Physical Protection Environmental conditions and environmental tests For telecommunications equipment		
<sup>2</sup> Environmental testing is performed at the satel (A2LA Cert. No. 1627-01) 10/31/03 11 of 11	lite facility located at 168 Ayer Rd, Littleton, MA 01460 Page		

Page 17 of 17