

Test Report

Report No EH0990-1

Client Microwave Radio Communications LLC

Dwayne Johnson

Address 101 Billerica Ave.

North Billerica, MA 01862

Phone 978.671.5770

Items tested TXU Strata

Standards FCC 15.209 Radiated Emissions

Test Dates September 10 - 11, 2007

Prepared by

Nathanial Sanford – Test Engineer

Authorized by

Michael Buchholz - EMC Manager

Issue Date

10/4/07

Conditions of Issue

This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 23 of this report.

Curtis-Straus LLC is accredited to ISO/IEC 17025 by A2LA for the specific scope of accreditation under Certificate Number 1627-01. This report may contain data which is not covered by the A2LA accreditation. See our scope of accreditation at the end of this test report. Any opinions or interpretations expressed in this report are outside the scope of our A2LA accreditation as A2LA only accredits testing.



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Form Final Report REV 8-13-07 (DW)



Summary

On September 10 - 11, 2007 we tested the TXU Strata for compliance with the following requirements:

EMC Emissions:

• FCC 47 CFR Part 15.209 Emissions requirements (USA)
Registration numbers for all open area test sites can be found in the *Test Equipment Used* Section starting on page 14.

We found that the product met the above requirements with modification (see *Modifications Required for Compliance* section on page 5). Dwayne Johnson from Microwave Radio Communications LLC was present during the testing. The test sample was received in good condition.

Product Tested - Configuration Documentation

EUT Configuration

Work Order: H0990

Company: Microwave Radio Communications

Company Address: 101 Billerica Ave. Building 6

North Billerica, MA 01862

Contact: Dwayne Johnson Person Present: Dwayne Johnson

MN SN

EUT: 907822-21 0708SC007B156R

EUT Description: TXU Strata 6.7-7.1GHz Transmitter

EUT Max Frequency: 7.1GHz

Support Equipment:	MN		SN		
Public Safety 6.7-7.1GHz Power Amplifier	SPX1000	13-1	1002		
EUT Cables:	Qty	Shielded?	Length	Ferrites	
Audio Cables	1	None	1m	None	
Signal Input BNC	1	Yes	2m	None	
24V Power Cable	1	None	3m	None	
RS232	1	Yes	1m	None	
RF Output Cable	1	Yes	.5m	None	
Unpopulated EUT Ports:	Qty	Reason			

Unpopulated EUT Ports:

None

Software / Operating Mode Description:

EUT is sending a signal to the PA, which is then amplifing the signal. The output of the PA is terminated with a 30dB 50W attenuator.

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Compliance Statement

TEST	RESULT	STANDARD	TEST LEVEL	Margin	COMMENTS
Radiated Emissions	PASS	FCC CFR 47 Part 15.209	N/A	-4.4dB @ 185MHz	

Modifications Required for Compliance

During Radiated Emissions testing, a single-loop ferrite (Fair-Rite PN 0443164151) was needed on the DC main cable in order to obtain passing data.

Radiated	l Emissi	ons Tab	ole								Curtis-St	raus LLC
Date:	11-Sep-07		(Company:	Microwa	ve Radio				V	ork Order:	H0990
Engineer:	David Harris		ı	EUT Desc:	TXU Str	ata						
	Freque	Measuremer	nt Distance:	3 m								
Notes: EUT Max Freq: 7.1GHz												
Antenna	1		Preamp	Antenna	Cable	Adjusted		FCC Class	4		FCC 15.209)
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)
Hbb	36.1	49.8	25.8	17.3	0.5	41.8	49.6	-7.8	Pass	40.0	1.8	Fail
Added single loa	op ferrite on DC	power cable t	fair-rite PN 0-	443164151								
Hbb	36.1	37.0	25.8	17.3	0.5	29.0	49.6	-20.6	Pass	40.0	-11.0	Pass
Hbb	62.805	43.1	25.7	8.0	0.8	26.2	49.6	-23.5	Pass	40.0	-13.9	Pass
Hbb	185.77	51.7	25.7	11.5	1.5	39.0	54.0	-15.0	Pass	43.5	-4.5	Pass
Hbb	133.0	42.2	25.6	14.2	1.2	32.0	54.0	-22.0	Pass	43.5	-11.5	Pass
Vbb	36.208	43.2	25.8	17.2	0.5	35.1	49.6	-14.5	Pass	40.0	-4.9	Pass
Vbb	185.0	51.8	25.7	11.5	1.5	39.1	54.0	-14.9	Pass	43.5	-4.4	Pass
V	384.0	35.0	25.6	15.7	2.7	27.8	56.9	-29.1	Pass	46.0	-18.2	Pass
Table	e Result:	Fail	by	1.8	dB				Wo	orst Freq:	36.1	MHz
Test Site:	"T"	Pre-Amp:	Red-White	Cable:	EMIR-12	2	Analyzer:	Yellow		Antenna:	Red-Brown	



Figure 1 Ferrite modification required for compliance

Test Results

Table 1

Radiated	l Emissi	ons Tab	ole								Curtis-St	raus LLC
Date:	11-Sep-07			Company:	Microwa	ve Radio				٧	Vork Order:	H0990
Engineer:	David Harris			EUT Desc:								
Frequency Range: 30-1000MHz Measurement Distance: 3 m												
Notes: Added single loop ferrite on DC power cable Fair-Rite PN 0443164151 EUT Max Freq: 7.1GHz												
Antenna			Preamp	Antenna	Cable	Adjusted					FCC 15.209)
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)
Hbb	36.1	37.0	25.8	17.3	0.5	29.0				40.0	-11.0	Pass
Hbb	62.805	43.1	25.7	8.0	0.8	26.2				40.0	-13.9	Pass
Hbb	185.77	51.7	25.7	11.5	1.5	39.0				43.5	-4.5	Pass
Hbb	133.0	42.2	25.6	14.2	1.2	32.0				43.5	-11.5	Pass
Vbb	36.208	43.2	25.8	17.2	0.5	35.1				40.0	-4.9	Pass
Vbb	185.0	51.8	25.7	11.5	1.5	39.1				43.5	-4.4	Pass
V	384.0	35.0	25.6	15.7	2.7	27.8				46.0	-18.2	Pass
Table	e Result:	Pass	by	-4.4	dB				Wo	orst Freq:	185.0	MHz
Test Site:	"T"	Pre-Amp:	Red-White Cable: EMIR-12 Analyzer:				Analyzer: Yellow Antenna: Red-Brown					

Table 2

I UDIC E													
Radiated	d Emissi	ons Tab	ole								Curtis-St	aus LLC	
Date:	10-Sep-07			Company:	Microwa	ve Radio C	ommunicatio	ns		٧	Vork Order:	H0990	
Engineer:	Nate Sanford			EUT Desc:	Public S	afety PA an	d TXU Strata	a					
	Freque	ncy Range:	1-18GHz						Measuremer	nt Distance:	3 m		
Notes:									EU	Γ Max Freq:	7.1GHz		
Antenna			Preamp	Antenna	Cable	Adjusted					FCC 15.209	1	
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result	
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)	
V	1344.0	62.3	42.2	24.8	0.9	45.8	82.2	-36.4	Pass	54.0	-8.2	Pass	
Table	e Result:	Pass	by	-8.2	dB				Worst Freq: 1344.0 MHz				
Test Site:	"T"	Pre-Amp:	Red-Green	Cable:	EMIR-H	MIR-HIGH-21 Analyzer: Brown Antenna: Orange Horn							

Table 3

Date:	10-Sep-07			Company:	Microwa	ve Radio Com	munications			v	ork Order	Hnaan
	Nate Sanford					afety PA and				•	TOIR Older	110990
	Freque	ncy Range:	18-26.5GHz					ļ	Measuremer	nt Distance:	0.1 m	
Notes:									EU	Γ Max Freq:	7.1GHz	
Antenna			Preamp	Antenna	Cable	Adjusted	F	art 74.635			FCC 15.209)
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)
o emissions fo	und within 20dB	of limit										
			h		dB				We	rst Freg:		MHz
Table	e Result:		by		uD.							1411 12

Table 4

Radiated	l Emissi	ons Tab	ole								Curtis-St	raus LLC
Date:	10-Sep-07			Company:	Microwa	ve Radio Con	nmunications			٧	Vork Order:	H0990
Engineer:	Nate Sanford		İ	EUT Desc:	Public S	afety PA and	TXU Strata					
	Freque	ncy Range:	26.5-40GHz						Measuremer	nt Distance:	0.1 m	
Notes:									EU	T Max Freq:	7.1GHz	
Antenna			Preamp	Antenna	Cable	Adjusted					FCC 15.209)
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)
no emissions fo	und											
Table	e Result:		by		dB				Wo	orst Freq:		MHz
Test Site:	"T"	Pre-Amp:	26.5-40GHz	Cable:	40GHz I	Mixer/18-26.5	GHz no cable	Analyzer:	Brown	Antenna:	26.5-40GH	z Horn

Table 5

Tubio 0			_									
Radiated	l Emissi	ons Tab	ole								Curtis-St	raus LLC
Date:	10-Sep-07			Company:	Microwa	ve Radio Con	nmunications			٧	ork Order	: H0990
Engineer:	Nate Sanford			EUT Desc:	Public S	afety PA and	TXU Strata					
	Freque	ncy Range:	40-50GHz						Measuremer	nt Distance:	0.1 m	
Notes:									EU ⁻	Γ Max Freq:	7.1GHz	
Antenna			Preamp	Antenna	Cable	Adjusted					FCC 15.209	•
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)
no emissions fo	und											
Table	e Result:		by		dB				Wo	orst Freq:		- MHz
Test Site:	"T"	Pre-Amp:	none	Cable:	EMIR-H	IGH-21 and E	MIR-HIGH-09	Analyzer:	Brown	Antenna:	30-50GHz I	Horn

Table 6

Radiatet	l Emissi	ons rac	ле								Curtis-St	raus LLC
Date:	10-Sep-07			Company:	Microwa	ve Radio Con	nmunications			v	ork Order:	H0990
Engineer:	Nate Sanford			EUT Desc:	Public S	afety PA and	TXU Strata					
	Freque	ncy Range:	50-71GHz					l	Measuremei	nt Distance:	0.1 m	
Notes:									EU.	Γ Max Freq:	7.1GHz	
Antenna			Preamp	Antenna	Cable	Adjusted					FCC 15.209)
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
o emissions fo	und											
Table	e Result:		by		dB				Wo	orst Freq:		MHz
	"T"	Pre-Amp:				-	MIR-HIGH-09	Analyzer:			50-75GHz I	

Test Configuration Photographs



Figure 2 REMI Front



Figure 3 REMI Rear



Test Descriptions

Radiated Emissions Testing Overview

REV 22-SEP-05

Digital and microprocessor based devices use radio frequency (RF) digital signals for timing purposes. An unintentional consequence of this signal usage is that a certain amount of RF energy is radiated from the device into the local environment. This radiated RF energy has the potential to interfere with constructive uses of the RF spectrum such as television broadcasting, police and fire radio, and the like. In order to reduce the likelihood that a device will interfere with these services, it is required that the amplitudes of radiated RF signals from the device are kept below an allowable level.

These RF signals decrease in strength as the distance from the source increases. Thus if the potential victim of interference, e.g. a TV receiver, is far enough from the radiator, e.g. a computer, then no interference will occur. For certain environments it is appropriate to expect that potential interference victims will be located at least a minimum distance from the radiator. For the residential environment this distance is generally accepted to be 10 meters while in the commercial environment the accepted distance is 30 meters. The allowable emissions levels are therefore specified to protect equipment which is located further than that distance from the radiator. In general, radiation from the Equipment Under Test (EUT) is measured at 3 or 10 meters to ensure that it is at or below allowable levels.

Measurements of the radiated energy are made by recording the field strength indicated by an antenna placed at a specific distance from the device. Most devices do not radiate the RF energy in a predictable manner. The emitted energy may vary with changes in operating mode, physical configuration, or orientation. During the measurement process these parameters are varied to confirm that the emissions will remain below the allowable levels in the range of typical installations.

The extent of annoyance experienced by a person who is being affected by interference is related to the persistence of the interfering signal. For example, a low level steady whine from a receiver is considered to be more annoying than brief, loud, intermittent pops or clicks. This "human factor" is accounted for by the use of a "quasi-peak" detector in the receiver or spectrum analyzer which measures the signal from the measurement antenna. The detector is a weighted averaging filter with a fast charge time and a slow discharge time. Thus steady continuous signals will charge the quasi-peak detector fully while intermittent signals (those with pulse repetition rates less than 1kHz) are reported at a level which can be significantly below their peak level. It should be noted that most RF signals produced by digital devices are continuous in nature and thus the quasi-peak reading will be identical to the peak signal reading. To reduce the test time, the peak emission level is recorded for continuous wave signals as it is the same as the quasi-peak signal level.

Testing is performed according to test methods from ANSI C63.4 and CISPR 22.

The test site used for measuring radiated emissions follows the format developed internationally for a weather protected Open Area Test Site (OATS). An antenna mast is installed at the specified distance from a rotating table and is used to raise and lower the



measuring antenna. The reference site is clear of reflecting objects, such as metal fences and buildings for an ellipse of twice the measurement test distance. Measuring equipment and personnel are present within the ellipse to facilitate cable manipulation, but measures are taken to minimize the effects. Often preliminary radiated emissions measurements are made at alternate test sites which do not meet the clear space reference criteria. The data collected at alternate test sites is not considered conclusive unless the alternate site also complies with a volumetric site attenuation survey performed over the area that the EUT occupies. The EUT and measuring antenna mark the two foci of the ellipse. The ground plane is made of a combination of galvanized steel sheets and tight wire mesh electrically connected along the seams. This metal ground plane extends 1 meter beyond the furthest extent of the EUT and the measuring antenna. It also covers the area between the EUT and the measuring antenna. The hardware cloth is connected to the utility ground or to stakes driven into the earth for safety.

In order for accurate emissions measurements to be made the test site must possess propagation characteristics which fall within accepted norms. The site has been checked for suitability using techniques specified in American National Standards Institute (ANSI) document C63.4. This document details a procedure which measures the attenuation of the site which is the chief indicator of site acceptability. The theory behind site attenuation is quite simple. A transmitting antenna is set up at a fixed location at one end of the site with a receiving antenna at the other end. If a signal of some arbitrary amplitude is fed into the transmitting antenna, a lesser amount of signal ought to be measured at the receiving antenna. This difference in signal amplitude is known as the site attenuation, which should follow a predicted curve. Data that does not correspond to the predicted site attenuation curve points to a problem with either the equipment being used or the physical characteristics of the site.

Actual emissions measurements are taken with broadband biconical-log-periodic hybrid antennas calibrated in accordance with the standard site method detailed in ANSI C63.5. Emissions are measured with the receiving antenna oriented in horizontal and vertical polarization with respect to the ground plane. If measurements are made at other than the limit distance, then the readings obtained are scaled to the limit distance using an inverse relationship. The actual test distance used is noted in the report.

The antenna mast is capable of a varying the antenna height between 1 and 4 meters above the ground plane. The receiving antenna is moved over this range at each emission frequency in order to record the maximum observed signal. The mast is non-conductive and remotely controllable. The test distance is measured from the antenna center (marked during calibration) and the periphery of the EUT.

The Equipment Under Test (EUT) is rotated in order to maximize emissions during the test. For equipment intended to operate on a tabletop or desk radiated tests are conducted on a 0.8 meter high, non-conductive platform. Larger floor standing equipment is tested on a floor mounted rotatable platform. In some cases, large equipment on its own casters may be tested without a platform.

Since radiated emissions are a function of cable placement, the cable placement is varied to encompass typical configurations that an end user might encounter to determine the configuration resulting in maximum emissions. At least one cable for each I/O port type is attached to the EUT. If peripherals or modules are available, at least one of each available type



is installed and noted in the report. Excess cable length beyond one meter is bundled in the center into a 30 to 40 cm bundle. Cables requiring non-standard lead dress are recorded in the report.

Network connections are simulated if necessary. Any simulator used matches the expected real network connection in terms of both functionality and impedance. For distributed systems, the support equipment may be placed at such a distance that it does not influence the measured emissions. If this option is used, such placement is noted in the test report.

The possible operating modes of the EUT are explored to determine the configuration which maximizes emissions. Software is investigated as well as different methods of displaying data if available. Data is recorded in the worst case operating mode.

At least the six highest emissions with respect to the limit are recorded. If less than six emissions are visible above the noise floor of the instrumentation, then noise floor measurements at six representative frequencies are recorded. The test report will document if noise floor readings are reported.

FCC ar	nd European	Norms Radi	iated Emissior	ns Limits at 10	meters
Frequency (MHz)	FCC Class A	FCC Class B	CISPR Class A	CISPR Class B	Frequency (MHz)
30-88	39.1	29.5	40	30	30-88
88-216	43.5	33.1	40	30	88-216
216-230	46.4	35.6	40	30	216-230
230-960	46.4	35.6	47	37	230-960
960-1000	49.5	43.5	47	37	960-1000
1000+	49.5	43.5	N/A	N/A	1000+

At the transitions, the lower limit applies. Simple inverse scaling utilized to convert limits where appropriate.

FCC a	nd Europear	n Norms Rad	liated Emissio	ns Limits at 3 i	meters
Frequency (MHz)	FCC Class A	FCC Class B	CISPR Class A	CISPR Class B	Frequency (MHz)
30-88	49.5	40	50.5	40.5	30-88
88-216	54	43.5	50.5	40.5	88-216
216-230	56.9	46	50.5	40.5	216-230
230-960	56.9	46	57.5	47.5	230-960
960-1000	60	54	57.5	47.5	960-1000
1000+	60	54	N/A	N/A	1000+

At the transitions, the lower limit applies. Simple inverse scaling utilized to convert limits where appropriate.

For CISPR and EU standards measurements are usually made over the frequency range of 30 MHz to 1GHz. Deviations are noted in the test report. For the FCC, the



measurement range is based on the highest frequency signal present or used in the device. The following table details the frequency range of measurements performed.

FCC frequency range of radiated emissions measurements							
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)						
Below 1.705	30 (No radiated measurements)						
1.705-108	1000						
108-500	2000						
500-1000	5000						
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower.						

The test data is derived from the voltage on the spectrum analyzer. First the reading is corrected for gain factors associated with the use of preamps and loss in the cable. A factor in dB is subtracted from the reading to account for preamp gain, while a factor in dB is added to the signal to account for cable loss. A conversion is performed from the resulting voltage to field strength by multiplying the voltage by the antenna factor. Since antenna factor is expressed as a logarithm (dB/m), this operation takes the form of an addition (to multiply logarithmic numbers, you add them together). Thus:

Field Strength (dBuV/m) = Voltage Reading (dBuV) - Preamp Gain (dB) + Cable Loss (dB) + Antenna Factor (dB/m)
When the levels of ambient radio signals such as local television stations are within 6 dB of the appropriate limit, the following steps may be taken to assure compliance:

- The measurement bandwidth may be reduced. A check is made to see that peak readings are not affected. The use of a narrower bandwidth allows examination of emissions close to local ambient signals.
- 2. The antenna may be brought closer to the EUT to increase signal-to-ambient signal strength.
- For horizontally polarized signals the axis of the test site may be rotated to discriminate against local ambients.

Measurement Uncertainty

The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

Measurement	Expanded Uncertainty k=2	Maximum allowable uncertainty (ETSI)
Radiated Emissions (30-1000MHz)	5.6dB	N/A
Radiated Emissions (1-26.5GHz)	4.6dB	N/A
Radiated Emissions (above 26.5GHz)	4.9dB	N/A
Magnetic Radiated Emissions	5.6dB	N/A
Conducted Emissions	3.9dB	N/A
Telco Conducted Emissions (Current)	2.9dB	N/A
Telco Conducted Emissions (Voltage)	4.4dB	N/A
Electrostatic Discharge	11.5%	N/A
Radiated RF Immunity (Uniform Field)	1.6dB	N/A
Electrical Fast Transients	23.1%	N/A
Surge	23.1%	N/A
Conducted RF Immunity	3dB	N/A
Magnetic Immunity	12.8%	N/A
Dips and Interrupts	2.3V	N/A
Harmonics	3.5%	N/A
Flicker	3.5%	N/A
Radio frequency	8.2 x 10 ⁻⁸	1 x 10 ⁻⁷
RF power, conducted	0.7dB	0.75dB
Maximum frequency deviation: Within 300Hz and 6kHz of audio frequency Within 6kHz and 25kHz of audio frequency	• 1.2% • 0.1dB	• 5% • 3dB
Adjacent channel power	1.9dB	3dB
Conducted spurious emission of transmitter, valid up to 12.75GHz	0.7dB	3dB
Conducted emission of receivers	0.7dB	1dB
Radiated emission of transmitter, valid up to 26.5GHz	5.6dB	6dB
Radiated emission of transmitter, valid up to 80GHz	5.6dB	6dB
Radiated emission of receiver, valid up to 26.5GHz	5.6dB	6dB
Radiated emission of receiver, valid up to 80GHz	5.6dB	6dB
RF level uncertainty for a given BER	0.7dB	1dB
Humidity	2.31%	5%
Temperature	0.6°C	1.0°C
Time	0.8%	10%
RF Power Density, Conducted	2.2dB	3dB
DC and low frequency voltages	1.29%	3%
Voltage (AC, <10kHz)	1.29%	2%
Voltage (DC)	0.23%	1%
The above reflects a 95% confidence level		

Test Equipment Used

SPECTRUM ANALYZER	e /							EV. 04-SEP		
SPECTRUM ANALYZER RECEIVERS	\$7	RANGE	MN	I MFF	₹	SN	ASSET	CA ⁻	Γ	CALIBRATION DUE
RED		9kHz-1.8GHz	8591			141A03559				14-AUG-2008
WHITE		9kHz-22GHz	8593	BE Agile	nt 3	547U01252	00022	- 1		06-OCT-2007
BLUE		9kHz-1.8GHz	8591	IE Agile	nt 3	223A00227	00070	- 1		17-AUG-2008
YELLOW		9kHz-2.9GHz	8594			523A01958	00100	- 1		08-JUN-2008
GREEN		9kHz-26.5GHz	8593			329A03618	00143	- 1		02-AUG-2008
BLACK		9kHz-12.8GHz	8596	SE Agile	nt 3	710A00944		- 1		02-AUG-2008
TELECOM 3585A		20Hz-40.0MHz				504A05219		- 1		15-FEB-2008
TELECOM 3585A		20Hz-40.0MHz				750A03418		i		Out of Service
TELECOM 3585A		20Hz-40.0MHz				750A02762		i		Out of Service
ORANGE		9kHz-26.5GHz	E440			S39440975		i		Out of Service
GOLD		100Hz-26.5 GHz	E440			Y45113816				25-JUL-2008
REFERENCE EMI TEST RE	2511/50		ESVS		111 IVI		01098			To be determined
		20-1000MHz				27957/001		- !		
RENTAL SA #1 (BROW	N)	9kHz-26.5GHz	E440			G44210511				01-FEB-2008
RENTAL SA #2		100Hz-26.5 GHz	E740			Y44212795				28-DEC-2007
RENTAL SA #3		9kHz-1.8GHz	8591			536A00617				25-JUL-2008
RENTAL SA #4		100Hz-3 GHz	E740	2A Agile	nt M	Y45103221	Rental	I		23-JUL-2008
LISNs/MEASUREMENT										
PROBES		RANGE		MN	MFF		SN	ASSET	Сат	
RED		9ĸHz-50MHz	8012-50	-R-24-BNC	SOLA		6348	00753	1	06-JUN-2008
BLUE (DC)		50kHz-50MHz		-R-24-BNC	SOLA		6349	00752	I	06-JUN-2008
YELLOW-BLACK		9kHz-50MHz	8012-50	-R-24-BNC	SOLA	.R 04	11657	00248	1	24-MAY-200
ORANGE		9ĸHz-30MHz		-R-24-BNC	SOLA		3707	00754	- 1	07-MAY-200
GOLD (DC)		9kHz-50MHz		-R-24-BNC	SOLA		34734	00247	i	13-JUN-2008
Brown		50kHz-50MHz		-R-24-BNC	SOLA		11656	00986	i	12-JUN-200
GREEN		9kHz-50MHz		-R-24-BNC	SOLA		34735	00987	i	12-JUN-200
YELLOW		9kHz-50MHz		-R-24-BNC	SOLA		11658	1080	i	06-JUN-200
WHITE-BLACK				-K-24-BINC -TS-100-N	SOLA		72019	00678	- :	
		10kHz-30MHz								17-MAY-200
BLACK		10kHz-30MHz		-TS-100-N	SOLA		2017	00675	!	18-MAY-200
RED-BLACK		10kHz-30MHz		-TS-100-N	SOLA		72016	00677	!	18-MAY-200
BLUE-BLACK		10kHz-30MHz		-TS-100-N	SOLA		2018	00676	- 1	17-MAY-200
BLUE MONITORING PROB		0.01-150MHz		550-2	TEGA		2350	00807	I	31-MAY-200
YELLOW MONITORING PRO	BE	0.01-150MHz		550-2	ETS		0972	00493	I	23-JAN-2008
GREEN CURRENT TRANSFORM	ER	40Hz-20MHz	•	150	PEARS	ON 1	0226	00793	ı	19-APR-200
BLUE CISPR LINE PROBE		10kHz-50MHz		N/A	C-S		N/A	00805	II	08-JUN-2009
BLACK CISPR LINE PROB	Ε '	10ĸHz-50MHz		N/A	C-S		N/A	1254	II	08-JUN-200
SISPR TELCO VOLTAGE PRO		10kHz-30MHz		A/C-10	C-S		S01	00296	ii	13-AUG-200
CISPR 22 TELCO ISN		9кHz-30MHz		LISN-T4	FISCH		0115	00746	i	15-NOV-200
OPEN AREA TEST SI SITE F	TES (OA	(<i>TS</i>)	FCC Co 9344		IC Co		/CCI CODE R-1688	CAT II	•	CALIBRATION DUE
										23-JUN-2008
SITE T			9344		IC 2762		R-905 R-903	II.		23-JUN-2008
SITE A			9344		IC 276			II		20-JUN-2008
SITE M SITE J			9344 9344		IC 276		R-904 R-2377	II II		19-JUN-2008 12-APR-2008
SIIEJ			3344	U	10 2/02	.n-0	11-2311			12-AF K-2000
CONDUCTED TEST SITES	(MAINS	/TELCO)	FCC C	DDE	IC Co	DE	VCCI Cod	E	Сат	CALIBRATION D
EMI 1			9344		N/A		C-1801, T-2		Ш	NA
EMI 2			9344		N/A		C-1802, T-2		Ш	NA
EMI 3			9344	8	N/A		C-1803, T-2	70	III	NA
IXERS/DIPLEXERS F	RANGE	MN		MFR		SN		ASSET	Сат	CALIBRATION DU
	5-40 GHz		-442-6	HP/ATM	2332/	.01695/A046		1087	I	OUT OF CAL
	5-40 GHz 5-40 GHz			HP/ATM		.07825/A046		1087	i	19-SEP-2008
					3003F					
	-60 GHz	M19HW		OML		U30110-1		00821	- !	29-JUN-2009
	-50 GHz	11970		HP		3003A03155		00104	I	08-NOV-2007
	-75 GHz	11970V /QWH-\		HP/QuinStar	252	IA01197/879		1179	!	15-NOV-2007
	-110 GHz			HP		2521A01334		00105	I.	22-NOV-2007
	-90 GHz	M12HW		OML		E30110-1		00822	ı	29-JUN-2009
MIVED / HODN 90.	140 GHz	MOSHW	1/ /	OMI		F21206-1	(10 211	1	20- 11 181-2000

00811

00812

00813

MO8HW/A

MO5HW/A

DPL.26

OML

OML

OML

F21206-1

G21206-1

N/A

90-140 GHz

140-220 GHz

40-220 GHz

MIXER / HORN MIXER / HORN

DIPLEXER

29-JUN-2009

29-JUN-2009

29-JUN-2009

ABSORBING CLAMPS	RANGE	MN		MFR	SN	Asse	т С	AT	CALIBRATION DUE
FISCHER CLAMP	30-1000MHz	F-201-23	Вмм Г	FISCHER	10	0008	1	I	20-JAN-2008
HARMONIC & FLICKER A	NALYZER I	MN	MFR	S	N N	As	SET (Сат	CALIBRATION DUE
HFTS	HP	842A	HP	3531A	-00169	00	738	Ш	OUT OF CAL
10001I/2 AC POWER SY	STEM (2)	500I CALIF	ORNIA INSTRUMENT	rs HK53687	/HK5368	8 00:	376	II	07-AUG-2009
PREAMPS / ATTENUATORS / FILTERS	RANGE		MN	MFR		SN	ASSET	Сат	CALIBRATION DUE
RED	0.009-2000MH		-1000-LN	C-S		I/A	00798	II.	20-APR-2008
BLUE	0.009-2000MH		-1000-LN	C-S		I/A	00759	II	17-APR-2008
BLUE-BLACK	0.009-2000MH		-1000-LN	C-S		I/A	00800	II.	30-JUL-2008
GREEN	0.009-2000MH		-1000-LN	C-S		I/A	00802	II 	02-MAY-2008
BLACK	0.009-2000MH		-1000-LN	C-S		I/A	00799	II.	22-AUG-2008
ORANGE DED MUSE	0.009-2000MH		-1000-LN	C-S		I/A	00765	II	22-AUG-2008
RED-WHITE	0.009-2000MF		-1000-LN	C-S		I/A	1258	II	08-MAY-2008
WHITE	1-20GHz		MC-12A	C-S		6643	00760	II	09-JUL-2008
BROWN VELLOW BLACK	1-20GHz		8-4R5-17-15-SFF	C-S C-S		1655	1132	II II	02-APR-2008
YELLOW-BLACK	1-20GHz		MC-12A	C-S		5055 I/A	00801	II II	OUT OF SERVICE
RED-GREEN	1-18GHz 1-20GHz		8-4R5-17-15-SFF 8-4R5-17-15-SFF	C-S		N/A 3177	1256 1257	II II	1-AUG-2008
RED-BLUE	1-20GHZ 18-26.5GHz		002650-60-8P-4	C-S		3177 7559	1257	II	19-APR-2008
HF (YELLOW)				K&L	_		00817	l "	23-SEP-2007
HIGH PASS FILTER LOW PASS FILTER	1-18 GHz 1-9 GHz	_	-F-55204 100/X4400-O/O	K&L K&L	,	36 4	00817	II II	05-JAN-2008 05-JAN-2008
HIGH PASS FILTER	2.3-5.5 GHz		/HP-19	MINI-CIRCUITS	,	4 NA	1287	II	05-JAN-2008
HIGH PASS FILTER	1.9-2.7 GHz		/HP-19 /HP-16	MINI-CIRCUITS		NA NA	1288	" 	05-JAN-2008
HF 20DB 50W ATTENUATOR	0.03-20 GHz		7019-20	PASTERNACK		NA 01	00791	II	08-MAY-2009
HF 30DB 50W ATTENUATOR	0.03-20 GHz		7019-20	PASTERNACK		02	1168	ii	08-MAY-2009
40DB 100W ATTENUATOR	0.09-4000MH		10N100W+	MINI-CIRCUITS		4900638	1231	ii	08-NOV-2007
RFI-Low 130 KHz LPF	10-100kHz Pas		KHZ LPF	KIWA		NA	1235	ii	12-MAR-2008
ANTENNAS	RANGE	MN	MFR	SN	ASSET	Сат		CALIBR	ATION DUE
GREEN BILOG	30-2000MHz	CBL6112B	CHASE	2742	00620	II			4N-2008
GREEN-BLACK BILOG	30-2000MHz	CBL6112B	CHASE	2412	00127	II			AN-2008
GREEN-RED BILOG	30-2000MHz	CBL6112B	CHASE	2435	00990	1			PR-2008
BLUE BILOG	30-1000MHz	3143	EMCO	1271	00803	II			AY-2009
GRAY BILOG	20-2000MHz	3141	EMCO	9703-1038	00066	II) / 04-FEB-2008(RFI2
YELLOW-BLACK BILOG	20-2000MHz	CBL6140A	CHASE	1112	00126	II.	07-MAY-		II) /20-APR-2008(RFI)
RED-WHITE BILOG	30-2000MHz	JB1	SUNOL	A091604-1	01105	Į.			OV-2008
RED-BLACK BILOG	30-2000MHz	JB1	SUNOL	A091604-2	01106	!			CT-2008
RED-BROWN BILOG	30-2000MHz	JB1	SUNOL	A0032406	1218	1	04 1441/ 0		JG-2008
YELLOW HORN	1-18GHz	3115	EMCO	9608-4898	00037	1			I) / 14-JUN-2008 (RF
BLACK HORN	1-18GHz	3115	EMCO	9703-5148	00056	1		`) / 16-MAY-2008 (RFI
ORANGE HORN	1-18GHz 18-26.5GHz	3115 901 W/M	EMCO	0004-6123	00390		ız-JUN-20) / 16-MAY-2008 (RF
	18-26.5GHZ 10kHz-30MHz	801-WLM	WAVELINE	00758	00758	1			EP-2007
HF (WHITE) HORN	IUNIIZ-JUIVIIIZ	PLA-130/A	ARA EMCO	1024 9704-1154	00755 00067	i			EB-2008 AN-2008
SMALL LOOP				3104-1134		i			JN-2008
SMALL LOOP LARGE LOOP	20Hz-5MHz	6511 3301B		3824				14-JU	JIN 2000
SMALL LOOP LARGE LOOP ACTIVE MONOPOLE	20Hz-5MHz 30Hz-30MHz	3301B	EMCO	3824 N/A	00068				EP-2007
SMALL LOOP LARGE LOOP ACTIVE MONOPOLE INDUCTION COIL	20Hz-5MHz 30Hz-30MHz 50-60Hz	3301B 1000-4-8	EMCO C-S	N/A	00778	II		26-SI	EP-2007 CT-2008
SMALL LOOP LARGE LOOP ACTIVE MONOPOLE INDUCTION COIL ADJUSTABLE DIPOLE	20Hz-5MHz 30Hz-30MHz 50-60Hz 30-1000MHz	3301B 1000-4-8 3121C	EMCO C-S EMCO	N/A 1370	00778 00757	II I		26-SI 26-O	CT-2008
SMALL LOOP LARGE LOOP ACTIVE MONOPOLE INDUCTION COIL ADJUSTABLE DIPOLE ADJUSTABLE DIPOLE	20Hz-5MHz 30Hz-30MHz 50-60Hz 30-1000MHz 30-1000MHz	3301B 1000-4-8 3121C 3121C	EMCO C-S EMCO EMCO	N/A 1370 1371	00778 00757 00756	II I I		26-SI 26-O 09-N	CT-2008 OV-2008
SMALL LOOP LARGE LOOP ACTIVE MONOPOLE INDUCTION COIL ADJUSTABLE DIPOLE	20Hz-5MHz 30Hz-30MHz 50-60Hz 30-1000MHz	3301B 1000-4-8 3121C	EMCO C-S EMCO	N/A 1370	00778 00757	II I		26-SI 26-O 09-N 22-M	CT-2008

EFI	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
CAS 3025 BURST VERIFICATION ATTENUATORS	INA 265A/266	SCHAFFNER	20096	00947	Ш	28-JUN-2008
EFT DIRECT COUPLING CAP	N/A	C-S	01	00794	Ш	19-JUL-2008
MODULA6150	Modula6150	TESEQ	34525	1268	I	11-Jul-2008
RED BESTEMC-2	711-1100	SCHAFFNER	200122-074SC	00623	П	13-APR-2008
EMC PRO PLUS	EMCPRO PLUS	KEYTEK	0608208	RENTAL	Ш	17-MAY-2008

ESD GENE			MN			MFR		SN		SSET	Сат	CALIBRATION DUE
GREE			NSG435			IAFFNER		00839		0763	ļ	25-OCT-2007
Red Yello		Γ	NSG435 930D			IAFFNER ETS	U	01625 201)762)673	l I	06-FEB-2008 18-AUG-2007
TELLO	· · · · · · · · · · · · · · · · · · ·		330D					201		<i>5013</i>		10 700 2007
DIPS AND	D INTERRUPT	s	M	V	MF	R		SN		ASSET	Сат	CALIBRATION DUE
	DULA6150		Modul		TES		34525			1268	I	11-JUL-2008
INA 6502 AUTOMA			INA 6		TES			105		1269	I	11-JUL-2008
10001I/2 AC	POWER SYST	EM	(2) 5	001	INSTRU		HK5368	37/HK536	88	00376	II	21-JUN-2008
RED B	BESTEMC-2		711-1	100	SCHAF	FNER	2001	22-074SC		00623	II	17-APR-2008
CHAMBERS AND	STRIPLINE		MN			MFR		SN	Asse	T CA	г С.	ALIBRATION DUE
RFI 1 CHA	MBER		TER COM		Р	ANASHIEL	.D		0079			20-APR-2008
RFI 2 CHA		04' x 07	'SHIELDING	SYSTEM	I	LINDGREN	l		0079			04-FEB-2008
RFI 3 STR			N/A ECL5		_	C-S 3-M-A Inc			0079	-		NA 02 IAN 2000
ENVIRONMENT ENVIRONMENT	, ,		SGTH-31	9		B-M-A INC			0002			03-JAN-2008 03-JAN-2008
LIVIRONWENT	AL (SAFETT)		30111-31	<u> </u>		D-IVI-A INC	·•	2243	0032			03-3AIN-2000
AMPLIFIERS	RANGE	М		MFR		SN	ASSET	Сат				ATION DUE
RED	0.5-1000MHz			AR		8708	00032	II II				2008 (RFI1) 2008 (RFI2)
GREEN BLUE	0.5-1000MHz 0.01-250MHz			AR AR		23423 9165	00123 00039	II II	U3-V			2008 (RFIZ) / 19-JUN-2008 (NEBS CRFI)
BLACK	0.01-250MHz			AR		23411	00033	ii			,	N-08 (NEBS) / 20-APR-08 (RFI1)
ORANGE	0.01-250MHz			AR		26827	00367	ii		,	,	RFI)/ 29-JUN-2008 (EU)
BROWN 150W	0.1-250MHz			AR	3	13454	1255	II				2008 (RFI2)
GTC 1-2.6	1.0-2.6 GHz	GRF5		GTC		1221	RENTAL	II		,		NGE HORN) / 28-JUN-2008 (BLK)
HUGHES 10W	2.0-4.0GHz	1177		HUGHES		055	RENTAL	II 		,) /16-MAY-2008 (BLK & ORANGE)
HUGHES 10W	4.0-8.0GHz	8010		HUGHES		240	RENTAL	II) /16-MAY-2008 (BLK & ORANGE)
HUGHES 10W HP495A	8-10.0GHz 7.0-10.0GHz	801 HP4		Hughes HP	30/	138 1-00237	RENTAL 00086	II II	14-JI) /17-MAY-2008 (BLK & ORANGE) RVICE (SPARE)
AUDIO AMP	Audio Freq	MPA		RADIO SHACK		00438	NONE	III		00		NA
AUDIO AMP	AUDIO FREQ	MPA		RADIO SHACK		08545	00862	III				NA
FIELD F			RANGE		1N	MF		SN		ASSET	CA	
Re Gre			I-1000MHz I-1000MHz		1422 1422	Hola Hola		90369 97363		00031 00136	!	23-MAR-2008 25-JUL-2007
BL			I-1000MHz		1422 1422	HOLA		95696		01100	i	18-APR-2008
Reference Las			-6000MHz	FL7	7006	AF		321700		1252	1	23-FEB-2008
MICROWAVE S		-	450MHz	Star	Probe I501	HOLA		00075464	4	1244	· 1	09-JAN-2008
- MIGROWAVE C	OKVET WETER	_			1001	TIOLA		0007010		.2		00 07 11 2000
SIGNAL GENE	RATORS	RANG		MN		MFR		SN		ASSET	C/	
RED		0.09-2000		HP8648B		Agilen		3847U02	192	00366	- 1	
BLUE		0.1-1000	ıvl□∠					2/105/105	E 40			03-APR-2008
(-0	d.			HP8648A		Agilen		3426A00		00034	İ	23-SEP-2007
GREEN ORANG		0.09-2000	MHz	HP8648B		Agilen	t	3623A02	2072	00034 00125	 	23-SEP-2007 16-OCT-2007
GREEN ORANG BROWI	iΕ		MHz MHz				t t		2072 210	00034	 	23-SEP-2007
ORANG	iE N	0.09-2000 0.1-1000	OMHz MHz SMHz	HP8648B HP8648B	À	Agilen Agilen	t t t	3623A02 3537A01	2072 210 6621	00034 00125 00025	 	23-SEP-2007 16-OCT-2007 19-JUN-2008
Orang Browi White Brown-W	EE N E /HITE	0.09-2000 0.1-1000 0.01Hz-15 0.01Hz-15 0.01Hz-15	OMHz MHz 5MHz 5MHz 5MHz	HP8648B HP8648B HP33120/ HP33120/ HP33120/	Å A	Agilen Agilen Agilen Agilen Agilen	t t t t	3623A02 3537A01 US36016 US36048 SG40019	2072 210 6621 3143 9842	00034 00125 00025 1211 1219 1232	 	23-SEP-2007 16-OCT-2007 19-JUN-2008 OUT OF SERVICE 17-MAY-2008 10-NOV-2007
Orang Browi White Brown-W Blue-Wh	EE N E HITE HITE	0.09-2000 0.1-1000 0.01Hz-15 0.01Hz-15 0.01Hz-15 0.1Hz-13	OMHZ MHZ 5MHZ 5MHZ 5MHZ MHZ	HP8648B HP8648B HP33120A HP33120A HP33120A HP3312A	A A	Agilen Agilen Agilen Agilen Agilen	t t t t t	3623A02 3537A01 US36016 US36048 SG40019 1432A07	2072 210 6621 3143 9842 632	00034 00125 00025 1211 1219 1232 00775	1	23-SEP-2007 16-OCT-2007 19-JUN-2008 OUT OF SERVICE 17-MAY-2008 10-NOV-2007 21-MAR-2008
ORANG BROWI WHITE BROWN-W BLUE-WH SWEEPE	SE N S HITE HITE ER	0.09-2000 0.1-1000 0.01Hz-15 0.01Hz-15 0.01Hz-13 0.01-20.0	OMHZ MHZ 5MHZ 5MHZ 5MHZ MHZ OGHZ	HP8648B HP8648B HP33120A HP33120A HP3312A HP33752A	A A	Agilen Agilen Agilen Agilen Agilen Agilen	t t t t t t	3623A02 3537A01 US36016 US36048 SG40019 1432A07 3610A01	2072 210 6621 3143 9842 632 133	00034 00125 00025 1211 1219 1232 00775 00087	 	23-SEP-2007 16-OCT-2007 19-JUN-2008 OUT OF SERVICE 17-MAY-2008 10-NOV-2007 21-MAR-2008
ORANG BROWI WHITE BROWN-W BLUE-WH SWEEPE AM/FM STEREO	SE N SE HITE HITE ER SIG. GEN.	0.09-2000 0.1-1000 0.01Hz-15 0.01Hz-15 0.01Hz-13 0.01-20.0 0.1-170M	OMHZ MHZ SMHZ SMHZ MHZ MHZ MHZ	HP8648B HP8648B HP33120A HP33120A HP3312A HP33752A LG3236	A A A	Agilen Agilen Agilen Agilen Agilen Agilen LEADE	t t t t t t	3623A02 3537A01 US36016 US36048 SG40019 1432A07 3610A01 368730	2072 210 6621 3143 9842 632 133	00034 00125 00025 1211 1219 1232 00775 00087 00959	 	23-SEP-2007 16-OCT-2007 19-JUN-2008 OUT OF SERVICE 17-MAY-2008 10-NOV-2007 21-MAR-2008 I 08-MAY-2008 To be determined
ORANG BROWI WHITE BROWN-W BLUE-WH SWEEPE	SE N SE HITE HITE ER SIG. GEN.	0.09-2000 0.1-1000 0.01Hz-15 0.01Hz-15 0.01Hz-13 0.01-20.0	OMHZ MHZ SMHZ SMHZ MHZ MHZ MHZ	HP8648B HP8648B HP33120A HP33120A HP3312A HP33752A	A A A	Agilen Agilen Agilen Agilen Agilen Agilen	t t t t t t	3623A02 3537A01 US36016 US36048 SG40019 1432A07 3610A01	2072 210 6621 3143 9842 632 133	00034 00125 00025 1211 1219 1232 00775 00087		23-SEP-2007 16-OCT-2007 19-JUN-2008 OUT OF SERVICE 17-MAY-2008 10-NOV-2007 21-MAR-2008 I 08-MAY-2008 To be determined
ORANG BROWN WHITE BROWN-W BLUE-WH SWEEPE AM/FM STEREO IMPULSE GENE	EEN EE/HITE HITE ER SIG. GEN. ERATOR	0.09-2000 0.1-1000 0.01Hz-15 0.01Hz-15 0.01Hz-13 0.01-20.0 0.1-170M 1-100H	OMHZ MHZ SMHZ SMHZ SMHZ SMHZ MHZ MHZ UGHZ MHZ MHZ MHZ MHZ MHZ MHZ MHZ MHZ MHZ	HP8648B HP8648B HP33120A HP33120A HP3312A HP33752A LG3236 CIG-25	A A A EL	Agilen Agilen Agilen Agilen Agilen Agilen LEADE ECTRO-M	t t t t t t t t t t A SETRICS	3623A02 3537A01 US36016 US36048 SG40019 1432A07 3610A01 368730 290	2072 210 6621 3143 9842 7632 133 01	00034 00125 00025 1211 1219 1232 00775 00087 00959 00942	I I CALIBRA	23-SEP-2007 16-OCT-2007 19-JUN-2008 OUT OF SERVICE 17-MAY-2008 10-NOV-2007 21-MAR-2008 I 08-MAY-2008 To be determined To be determined
ORANG BROWN WHITE BROWN-W BLUE-WH SWEEPE AM/FM STEREO IMPULSE GENE BULK INJECTIO	EEN EE/HITE HITE ER SIG. GEN. EERATOR ON CLAMPS BS CRFI)	0.09-2000 0.1-1000 0.01Hz-15 0.01Hz-15 0.01Hz-13 0.01-20.0 0.1-170M 1-100H	OMHZ MHZ MHZ SMHZ SMHZ SMHZ MHZ MHZ MHZ HZ GHZ MHZ MHZ HZ	HP8648B HP8648B HP33120A HP33120A HP3312A HP33752A LG3236 CIG-25 MN 95236-1	MFR ETS	Agilen Agilen Agilen Agilen Agilen Agilen Agilen LEADE ECTRO-M	t t t t t t t t t t R ETRICS	3623A02 3537A01 US36016 US36048 SG40019 1432A07 3610A01 368730 290	2072 210 6621 3143 9842 7632 133 01	00034 00125 00025 1211 1219 1232 00775 00087 00959 00942	CALIBRA 19-JUN-2	23-SEP-2007 16-OCT-2007 19-JUN-2008 OUT OF SERVICE 17-MAY-2008 10-NOV-2007 21-MAR-2008 I 08-MAY-2008 To be determined To be determined
ORANG BROWN WHITE BROWN-W BLUE-WH SWEEPE AM/FM STEREO IMPULSE GENE BULK INJECTION GREEN (NEE	EEN EN EN HITE HITE ER SIG. GEN. ERATOR ON CLAMPS BS CRFI) J CRFI)	0.09-2000 0.1-1000 0.01Hz-15 0.01Hz-15 0.01Hz-13 0.01-20.0 0.1-170M 1-100H	OMHZ MHZ MHZ SMHZ SMHZ MHZ MHZ MHZ MHZ MHZ MHZ MHZ MHZ MHZ	HP8648B HP8648B HP33120A HP33120A HP3312A HP83752A LG3236 CIG-25 MN 95236-1 95236-1	MFR ETS ETS	Agilen Agilen Agilen Agilen Agilen Agilen LEADE ECTRO-M SN 50215 50215	t t t t t t t t t t t t t t t t t t t	3623A02 3537A01 US36016 US36048 SG40019 1432A07 3610A01 368730 290	2072 210 6621 3143 9842 632 133 01	00034 00125 00025 1211 1219 1232 00775 00087 00959 00942	CALIBRA 19-JUN-2 29-DEC-	23-SEP-2007 16-OCT-2007 19-JUN-2008 OUT OF SERVICE 17-MAY-2008 10-NOV-2007 21-MAR-2008 I 08-MAY-2008 To be determined To be determined
ORANG BROWN WHITE BROWN-W BLUE-WH SWEEPE AM/FM STEREO IMPULSE GENE BULK INJECTIO GREEN (NEB	EEN EEN HITE HITE SIG. GEN. ERATOR ON CLAMPS BS CRFI) J CRFI) S CRFI)	0.09-2000 0.1-1000 0.01Hz-15 0.01Hz-15 0.01Hz-13 0.01-20.0 0.1-170M 1-100H RAN 0.01-30 0.15-80 0.01-30	OMHZ MHZ MHZ SMHZ SMHZ SMHZ MHZ MHZ MHZ MHZ JZ MHZ MHZ MHZ MHZ MHZ MHZ MHZ MHZ MHZ MH	HP8648B HP8648B HP33120A HP33120A HP33120A HP33752A LG3236 CIG-25 MN 95236-1 95236-1 95236-1	MFR ETS ETS ETS	Agilen Agilen Agilen Agilen Agilen Agilen LEADE ECTRO-M SN 50215 50215 34026	t t t t t t t t t t t t t t t t t t t	3623A02 3537A01 US36016 US36048 SG40019 1432A07 3610A01 368730 290	2072 210 6621 3143 9842 7632 133 01	00034 00125 00025 1211 1219 1232 00775 00087 00959 00942 IN-2008(BLUE) DV-2007(BLUE)	CALIBRA 19-JUN-2 29-DEC-2 19-JUN-2	23-SEP-2007 16-OCT-2007 19-JUN-2008 OUT OF SERVICE 17-MAY-2008 10-NOV-2007 21-MAR-2008 I 08-MAY-2008 To be determined To be determined
ORANG BROWN WHITE BROWN-W BLUE-WH SWEEPE AM/FM STEREO IMPULSE GENE BULK INJECTIO GREEN (NEE	HE N HITE HITE ER SIG. GEN. ERATOR ON CLAMPS BS CRFI) J CRFI) S CRFI) CRFI)	0.09-2000 0.1-1000 0.01Hz-15 0.01Hz-15 0.01Hz-13 0.01-20.0 0.1-170M 1-100H	OMHZ MHZ MHZ SMHZ SMHZ SMHZ MHZ MHZ MHZ HZ MHZ HZ DMHZ SMHZ MHZ HZ	HP8648B HP8648B HP33120A HP33120A HP3312A HP83752A LG3236 CIG-25 MN 95236-1 95236-1	MFR ETS ETS	Agilen Agilen Agilen Agilen Agilen Agilen LEADE ECTRO-M SN 50215 50215	t t t t t t t t t t t t t t t t t t t	3623A02 3537A01 US36016 US36048 SG40019 1432A07 3610A01 36873 290 CAT	2072 210 6621 3143 9842 7632 133 01	00034 00125 00025 1211 1219 1232 00775 00087 00959 00942 IN-2008(BLUE) IN-2008(BLUE) IN-2008(BLUE)	CALIBRA 19-JUN-2 29-DEC-: 19-JUN-2 02-JAN-2	23-SEP-2007 16-OCT-2007 19-JUN-2008 OUT OF SERVICE 17-MAY-2008 10-NOV-2007 21-MAR-2008 I 08-MAY-2008 To be determined To be determined
ORANG BROWN WHITE BROWN-W BLUE-WH SWEEPE AM/FM STEREO IMPULSE GENE BULK INJECTIC GREEN (NEE GREEN (EU RED (NEBS	CHENNEL CONTROL 0.09-2000 0.1-1000 0.01Hz-15 0.01Hz-15 0.01Hz-15 0.1Hz-13 0.01-20.0 0.1-170M 1-100H RAN 0.01-30 0.15-80 0.01-30	OMHZ MHZ MHZ SMHZ SMHZ SMHZ MHZ WHZ WHZ MHZ MHZ MHZ MHZ MHZ MHZ MHZ MHZ MHZ M	HP8648B HP8648B HP33120A HP33120A HP33120A HP33752A CIG-25 MN 95236-1 95236-1 95236-1 95236-1	MFR ETS ETS ETS ETS	Agilen Agilen Agilen Agilen Agilen Agilen LEADE ECTRO-M SN 50215 50215 34026 34026	t t t t t t t t t t t t t t t t t t t	3623A02 3537A01 US36016 US36048 SG40019 1432A07 3610A01 36873 290 CAT II II II	2072 210 6621 3143 9842 7632 133 01	00034 00125 00025 1211 1219 1232 00775 00087 00959 00942 IN-2008(BLUE) IN-2008(BLUE) IN-2008(BLUE)	CALIBRA 19-JUN-2 29-DEC-3 19-JUN-2 0 02-JAN-2 ALIBRATE	23-SEP-2007 16-OCT-2007 19-JUN-2008 OUT OF SERVICE 17-MAY-2008 10-NOV-2007 21-MAR-2008 I 08-MAY-2008 To be determined To be determined To be determined 2008(BLK) 29-JUN-2008(ORANGE) 2007(BLK) 28-JUN-2008(ORANGE) 2008(BLK) 29-JUN-2008(ORANGE) 2008(BLK) 28-JUN-2008(ORANGE)	
ORANG BROWN WHITE BROWN-W BLUE-WH SWEEPE AM/FM STEREO IMPULSE GENE BULK INJECTIO GREEN (NEE GREEN (EU RED (NEB RED (EU BLUE (RTCA)	EEN EN EN EN HITE ER SIG. GEN. ERATOR ON CLAMPS BS CRFI) J CRFI) S CRFI) CRFI) CRFI) CRFI) A/DO-160E)	0.09-2000 0.1-1000 0.01Hz-15 0.01Hz-15 0.1Hz-13 0.01-20.0 0.1-170M 1-100H RAN 0.01-30 0.15-80 0.15-80 2-450	OMHZ MHZ MHZ SMHZ SMHZ SMHZ MHZ WHZ JGHZ WHZ JZ JMHZ JZ MHZ MHZ MHZ MHZ MHZ MHZ MHZ MHZ MHZ MH	HP8648B HP8648B HP33120A HP33120A HP33120A HP3312A GIG-25 MN 95236-1 95236-1 95236-1 95236-1 9142-1N 9142-1N	MFR ETS ETS ETS ETS SOLAR	Agilen Agilen Agilen Agilen Agilen Agilen LEADE ECTRO-M SN 50215 50215 34026 063824 008508	t t t t t t t t t t t t t t t t t t t	3623A02 3537A01 US36016 US36048 SG40019 1432A07 3610A01 368730 290 CAT II II II II	2072 210 6621 3143 9842 6632 133 01 19-JU 003-NC	00034 00125 00025 1211 1219 1232 00775 00087 00959 00942 IN-2008(BLUE) IN-2008(BLUE) IN-2008(BLUE)	CALIBR/ 19-JUN-2 29-DEC- 19-JUN-2) 02-JAN-2 ALIBRATE 10-AL	23-SEP-2007 16-OCT-2007 19-JUN-2008 OUT OF SERVICE 17-MAY-2008 10-NOV-2007 21-MAR-2008 I 08-MAY-2008 To be determined To be determined ATION DUE 2008(BLK) 29-JUN-2008(ORANGE) 2007(BLK) 28-JUN-2008(ORANGE) 2008(BLK) 29-JUN-2008(ORANGE) 2008(BLK) 28-JUN-2008(ORANGE)
ORANG BROWN WHITE BROWN-W BLUE-WH SWEEPE AM/FM STEREO IMPULSE GENE BULK INJECTIO GREEN (NEE GREEN (NEE RED (NEE RED (NEE RED (EU BLUE (RTCA) RENTAL (RTCA)	EEN EN EN EN HITE ER SIG. GEN. ERATOR ON CLAMPS BS CRFI) J CRFI) S CRFI) CRFI) CRFI) CRFI) A/DO-160E) A/DO-160E)	0.09-2000 0.1-1000 0.01Hz-15 0.01Hz-15 0.1Hz-13 0.01-20.0 0.1-170M 1-100H RAN 0.01-30 0.15-80 0.15-80 2-450	OMHZ MHZ MHZ SMHZ SMHZ SMHZ WHZ WHZ WHZ WHZ WHZ WHZ WHZ WHZ WHZ W	HP8648B HP8648B HP33120A HP33120A HP33120A HP3312A GG236-1 95236-1 95236-1 95236-1 95236-1 95236-1 9142-1N 9142-1N	MFR ETS ETS ETS ETS SOLAR	Agilen Agilen Agilen Agilen Agilen Agilen LEADE ECTRO-M SN 50215 50215 34026 34026 063824 008508	t t t t t t t t t t t t t t t t t t t	3623A02 3537A01 US36016 US36048 SG40019 1432A07 3610A01 368730 290 CAT II II II II	2072 210 6621 3143 9842 6632 133 01 19-JU 003-NC	00034 00125 00025 1211 1219 1232 00775 00087 00959 00942 UN-2008(BLUE) DV-2007(BLUE) CC	CALIBRA 19-JUN-2 29-DEC- 19-JUN-2 0 02-JAN-2 ALIBRATE 10-AL	23-SEP-2007 16-OCT-2007 19-JUN-2008 OUT OF SERVICE 17-MAY-2008 10-NOV-2007 21-MAR-2008 I 08-MAY-2008 I 08-MAY-2008 I 09-JUN-2008(ORANGE) 2008(BLK) 29-JUN-2008(ORANGE) 2008(BLK) 29-JUN-2008(ORANGE) 2008(BLK) 29-JUN-2008(ORANGE) 2008(BLK) 28-JUN-2008(ORANGE)
ORANG BROWN WHITE BROWN-W BLUE-WH SWEEPE AM/FM STEREO IMPULSE GENE BULK INJECTION GREEN (NEBS GREEN (EU RED (NEBS) RED (EU BLUE (RTCA) RENTAL (RTC) SBC NO	EEN EN EN EN HITE ER SIG. GEN. ERATOR ON CLAMPS BS CRFI) J CRFI) S CRFI) CRFI) CRFI) CRFI) A/DO-160E)	0.09-2000 0.1-1000 0.01Hz-15 0.01Hz-15 0.1Hz-13 0.01-20.0 0.1-170M 1-100H RAN 0.01-30 0.15-80 0.15-80 2-450	OMHZ MHZ MHZ SMHZ SMHZ SMHZ WHZ OMHZ HZ OMHZ OMHZ OMHZ OMHZ OMHZ SOMHZ S	HP8648B HP8648B HP33120A HP33120A HP33120A HP3312A GIG-25 MN 95236-1 95236-1 95236-1 95236-1 9142-1N 9142-1N	MFR ETS ETS ETS ETS SOLAR	Agilen Agilen Agilen Agilen Agilen Agilen LEADE ECTRO-M SN 50215 50215 34026 34026 063824 008508	t t t t t t t t t t t t t t t t t t t	3623A02 3537A01 US36016 US36048 SG40019 1432A07 3610A01 368730 290 CAT II II II II	2072 210 6621 3143 9842 6632 133 01 19-JU 003-NC	00034 00125 00025 1211 1219 1232 00775 00087 00959 00942 IN-2008(BLUE) DV-2007(BLUE) DV-2007(BLUE)	CALIBRATION CALIBRATICAL CALIBRATICAL CALIBRATICAL CALIBRATICAL CALIBRATICAL CALIBRATICAL CALIBRATICAL CALIBRATICA CALIBRATICA CALIBRATICA CALIBRATICA CALIBRATICA CALIBRATICA CALIBRATICA CALIBRATICA CALIBRATICA CALIBRATICA CALIBRATICA CALIBRATICA CALIBRATICA CALIBRATICA CALIBRATICA CALIBRATICA CALIBRATICA	23-SEP-2007 16-OCT-2007 19-JUN-2008 OUT OF SERVICE 17-MAY-2008 10-NOV-2007 21-MAR-2008 I 08-MAY-2008 To be determined To be determined ATION DUE 2008(BLK) 29-JUN-2008(ORANGE) 2007(BLK) 28-JUN-2008(ORANGE) 2008(BLK) 29-JUN-2008(ORANGE) 2008(BLK) 28-JUN-2008(ORANGE)



Oscillosco	OPES	MN		MFF	₹	SN	ASSET	Сат	CALIBRATION DUE
EMC 100M	1Hz	TDS 220		TEKTRO	ONIX	C036986	1166	I	25-APR-2008
ESD REFERENC	E 1GHz	TDS 684B		TEKTRO	XINC	B011287	RENTAL	1	03-APR-2008
400MHz E*S	COPE	TDS 3044B		TEKTRO	XINC	C010074	1275	1	19-JUL-2008
PRODUCT SAFETY	100 MHz	TDS 340		TEKTRO	XINC	B012357	00737	ı	03-OCT-2007
TELECOM 100) MHz	54645A		HP/AGI	LENT	US36320452	00103	- 1	OUT OF SERVICE
Reference 500MHz		P6139A		TEKTRO		NA	1280	ı	19-JUL-2008
Reference 500MHz		P6139A		TEKTRO		NA	1281	ı	19-JUL-2008
500MHz 10x F		P6139A		TEKTRO		NA	1282	!	19-JUL-2008
500MHz 10x F		P6139A		TEKTRO		NA	1283	!	19-JUL-2008
REFERENCE HV 100		P6015A		TEKTRO		B056555	1277	!	20-JUL-2008
REFERENCE HV 10	UUX PROBE	P6015A		TEKTRO	UNIX	B056590	1278	ı	20-JUL-2008
CDN NETWORKS	RANGE	MN	MFR	Asse	т Сат		CALIBRAT	ION DUE	
BLUE	0.10-100MHz	20A M-3	C-S	0080		03-NO\/-2007 (BLUE /			28-JUN-2008 (ORANGE)
RED	0.10-100MHz	15A M-3	C-S	0078		,	,	٠,	28-JUN-2008 (ORANGE)
YELLOW-BLACK	0.10-100MHz	15A M-3	C-S	0078					28-JUN-2008 (ORANGE)
GREEN	0.10-100MHz	30A M-3	C-S	0077		,	007 (BLUE AMP)	. ,	, ,
YELLOW	0.10-100MHz	30A M-5	C-S	0080			007(BLUE AMP)		, ,
Brown	0.10-100MHz	M-3	C-S	1169) II				28-JUN-2008 (ORANGE)
BROWN-WHITE	0.10-100MHz	M-3	C-S	1170) II	03-NOV-2007 (BLUE A	Aмр) 29-DEC-:	2007 (BLK)	28-JUN-2008 (ORANGE)
BROWN-BLACK	0.10-100MHz	M-2 (DC)	C-S	1171	l II	03-NOV-2007 (BLUE A	Aмр) 29-DEC-	2007 (BLK)	28-JUN-2008 (ORANGE)
RED-BLACK	0.10-100MHz	M-2 (DC)	C-S	1177					28-JUN-2008 (ORANGE)
GREEN-WHITE	0.10-100MHz	M-2 (DC)	C-S	1259) II	03-NOV-2007 (BLUE A	Aмр) 29-DEC-	2007 (BLK)	28-JUN-2008 (ORANGE)
YELLOW (RES)	0.10-100MHz	100Ω RESISTOR	C-S	0081	0 II	04-NOV-2007(BLUE A	AMP) 02-JAN-	2008(BLK)	28-JUN-2008 (ORANGE)
GREEN (RES)	0.10-100MHz	100Ω RESISTOR	C-S	1172	2 II	03-NOV-2007(BLUE A	Амр) 02-JAN-	2008(BLK)	28-JUN-2008 (ORANGE)
ARTIFICIAL HAND	$510\Omega/220$ PF	CS-AH	C-S	1262			04-JUN		
ARTIFICIAL HAND	510Ω / 220pF	CS-AH	C-S	1263	3 II		04-JUN	I-2008	
RMS VOLTMETER			ΛN		İNFR	SN	ASSET	Сат	CALIBRATION DUE
	MULTIMETER		9111		LUKE	71700298	00769	I	27-OCT-2007
	MULTIMETER		79 77		LUKE	89280616	1228	III	NOT CAL'D TO 17025
TRUE-RMS MULTIN	METER (REFERENCE MULTIMETER		77 77		_UKE _UKE	83390024 83390025	00973 00974	ļ.	22-MAR-2008 22-MAR-2008
	TIMETER (TELECOM)		77		LUKE LUKE	83430419	00974	-	22-MAR-2008
	RRENT PROBE		622		TRONIX	08DD 6275Dv	1246	-	31-JAN-2008
710/20 0011	KKEIVI I KODE		022	TEIX	ITONIX	0000 02700	1240		01 07 114 2000
SURGE G	ENERATORS		MN		MFR	SN	ASSET	Сат	CALIBRATION DUE
	VEFORM MONITOR		TWM-	5	CDI	003982	00323	- II	05-JUN-2008
UNIVERSAL SU	RGE GENERATOR		M5		CDI	003966	00324	П	CAL BEFORE USE
	COUPLING NWK		3CN		CDI	003455	00325	ii	CAL BEFORE USE
1.2x50uS P	LUGIN MODULE	1.2>	50uS F	LUGIN	CDI	N/A	00842	II	CAL BEFORE USE
10x160uS P	LUGIN MODULE	10x	160uS F	PLUGIN	C-S	N/A	00843	II	CAL BEFORE USE
10x560uS P	LUGIN MODULE	10x	560US F	PLUGIN	C-S	N/A	00841	II	CAL BEFORE USE
PSurge Cont	ROLLER MODULE	PS	URGE	8000	HAEFELY	150267	00879	II	05-JUN-2008
COUPLING/DEC	OUPLING MODULE		PCD 90		HAEFELY		08800	II	05-JUN-2008
IMPULSI	E MODULE		PIM 90		HAEFELY		00881	II	05-JUN-2008
HIGH VOLTAGE CA	, ,	μF (CS-HV	CC	C-S	01	00772	II	09-APR-2008
	SE GENERATOR		N/A		C-S	N/A	88000	II	18-OCT-2007
	GE GENERATOR		2x10u		C-S	N/A	00846	II.	CAL BEFORE USE
	RGE GENERATOR		10x700	υS	C-S	N/A	00847	II 	06-JUN-2008
	RESISTOR MODULE		N/A	40.00	C-S	N/A	00768	II.	18-OCT-2007
	500-M 500-M		500 M		EMTES1		1155	II	CAL BEFORE USE
	RGE GENERATOR		SS500 I NSG 20	-	EMTEST TESEQ		1156	II	CAL BEFORE USE
	RGE GENERATOR O IMPULSE N ETWOR		NSG 20 PNW 20		TESEQ	200720-605LU 200711-604LU	1273 1279	-	11-JUL-2008 11-JUL-2008
CDN 133 3 PHASE			CDN 13		TESEQ	34416	1279	i	11-JUL-2008
	JLA6150		ODULA6		TESEQ	34525	1268	i	11-JUL-2008
	STEMC-2		711-11		SCHAFFNE			ii	13-APR-2008
	RENT MONITOR		CM-1-		ION PHYSIC		1276	ii	26-Jul-2008
DIPOLE TAPE M	EASURES	MN			MFR	SN	ASSET	Сат	CALIBRATION DUE
26FT TAPE		2338CME		L	UFKIN	C3166-1	00776	II	22-MAR-2009
26FT TAPE	#2	2338CME		L	LUFKIN	C3166-2	00777	II	22-MAR-2009



Power/Noise Meters	Power/Noise Meters MN		MFR		SN	ASSET	Сат	CALIBRATION DUE
Power Meter	Power Meter 435B		HP	244	15A11012	00773	ı	03-APR-2008
Power Meter		437B	HP	291	I2A01367	01099	I	03-APR-2008
Power Sensor		8481A	HP	270)2A61351	00774	1	04-APR-2008
Power Meter		4232A	BOONTON		11000	1260	1	24-JUL-2008
Power Sensor		51013-4E	BOONTON		34457	1261	1	24-JUL-2008
PSOPHOMETER		2429	BRUEL & KJAER	1	237642	00585	II	23-FEB-2009
TRANSMISSION LINE TESTER (DB	RNC)	185T	AMREL	185	07030010	1236	II	20-APR-2008
TRANSMISSION LINE TESTER (DB	RNC)	185T	AMREL	9	998658	00823	II	03-JUL-2008
OVERVOLTAGE CHAMBERS	MN	MFR	SN			ASSET	Сат	CALIBRATION DUE
72kW Power Fault Simulator	OV1	C-S	N/A			00792	III	N/A
POWER FAULT SIMULATOR	OV2	C-S		N/A		00116	III	N/A
METEOROLOGICAL METER	s	MN	Mfr		SN	ASSET	Сат	CALIBRATION DUE
TEMP./HUMIDITY/ATM. PRESSURE	GAUGE	7400 PERCEPTION I	I DAVIS		N/A	00965	II	09-FEB-2009
TEMPERATURE /HUMIDITY GAU	GE	THG-912	HUGER	₹	4000562	00789	1	31-JAN-2009
WEATHER CLOCK (PRESSURE O	NLY)	BA928	OREGON SCIE	NTIFIC	C3166-1	00831	1	08-FEB-2009
CONSUMABLES	5	SPEC.	MFR	ST	ock/MN	ASSET	Сат	CALIBRATION DUE
NEBS CHEESECLOTH	26-	-28M/KG	ED&D	Α	CC-01	N/A	III	N/A
NEBS CARBON BLOCK	3-MIL-G	AP 1KV SURGE	RELIABLE		3AB	N/A	III	N/A

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

Jurisdictional Labeling and Required Instruction Manual Inserts

FCC Requirements

Required Equipment Authorization for Device Type

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

FCC Required labeling for Verified Devices 47 CFR Part 15.19

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

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

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

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

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



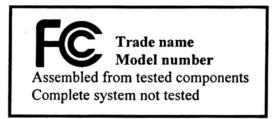
FCC Required labeling for Class B Personal Computers and Peripherals Devices 47 CFR Part 15.19 subject to Declaration of Conformity

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

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



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



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

FCC Required Instruction Manual Inserts CFR 47 Part 15.21 and 15.105

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



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

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

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

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- (c) The provisions of paragraphs (a) and (b) of this section do not apply to digital devices exempted from the technical standards under the provisions of § 15.103.
- (d) For systems incorporating several digital devices, the statement shown in paragraph (a) or (b) of this section needs to be contained only in the instruction manual for the main control unit.

Our facility codes can be found in the Test Equipment Used Section starting on page 14.



Conditions Of Testing

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

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

 13. CLIENT SHALL, EXCEPT TO THE EXTENT OF COMPANY'S LIABILITY TO CLIENT HEREUNDER (WHICH IN NO EVENT SHALL EXCEED THE LIMITATION OF LIABILITY HEREIN), HOLD HARMLESS AND INDEMNIFY THE COMPANY, ITS



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

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

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

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

Rev.160009121(2)_#684340 v13CS

A2LA Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025-1999

CURTIS-STRAUS¹ 527 Great Road Littleton, MA 01460 Barry Quinlan Phone: 978-486-8880

Valid until: September 30, 2007

Certificate Number: 1627.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following Electromagnetic Compatibility (EMC), Telecommunications, and Product

Electromagnetic Compatibility (EMC)

Electromagnetic Companionity (EMC)

Radiated emissions testing (electric and magnetic fields)*: Conducted emissions testing (voltage and current)*; Electrostatic Discharge testing*: Electrical Fast Transient testing*: Radiated Immunity testing*: Conducted Immunity testing*: Lightning Immunity testing*; Voltage Disp*: Interrupts and Voltage Variations testing*; Magnetic Immunity testing*: RF Power measurements*; Frequency Stability Measurements*: Longitudinal Induction measurements*: Armonic emissions testing*: Light flicker testing*: Low frequency disturbance voltage testing*; Disturbance Power measurements*; Power Cross Overvoltage testing*;

Test Type	Test Method(s)
Emissions	
Radiated and Conducted Emissions	FCC 47 CFR Parts 15 & 18; C63.4; CISPR 22; EN55022; 8ABS CISPR 22; A3/NZS CISPR 22; A3/NZS 3548; Canada ICES- 003; CNS13438; KN 22 (RRL No. 2005-82; September 29, 2005); CISPR 11; EN 55011; SABS CISPR 11; A5/NZS CISPR 11; AS/NZS 2064; Canada ICES-001; CNS1303; CISPR 13; EN 55013; SABS CISPR 13; A3/NZS CISPR 13; A3/NZS 1053; CISPR 14-1; EN 55014-1; SABS CISPR 14; A5/NZS CISPR 14; A5/NZS 1044; CNS 13439; CISPR 15; EN 55015; GR-1089- CORE; CSA C108.8-M1983;
Harmonics	EN 61000-3-2; AS/NZS 61000.3.2
Flicker	EN 61000-3-3; AS/NZS 61000.3.3

I Note: This accreditation covers testing performed at the laboratory listed above and the satellite facility located at 168 Ayer Rd, Littleton, MA 01460 and, for test types marked with an asterisk, at other sites as defined in "A2L4 Apecific criteria for the accreditation of site testing and site calibration laboratories."

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

Family Product or Industry Specific Specifications GR-1089-CORE; GR-78-CORE (ESD)

including emissions and/or immunity	GRY059-C-UR. (2RV-36-CMC 1317) GRY050-C-1; EN 50081-2; EN 50082-2; EN 50082-1; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-4; EN 50091-2; EN 55024; CISPR 24 EN 55103-1; EN 55103-2; EN 61326; EN 61547; EN 50130-4; EN 50081-2; EN 60601-2-32; EN 60601-2-38; EN 60601-2-34; EN 500-3; EN 61800-3; EN 55020; CISPR 20; EN 60555 Part 2; EN 60555 Part 3; ETS 300 386-1; EN 300 386-2; EN 300 386, ETS 300 132-1; ETS 300 132-2; EN 6069-2-1; AS/NZS 3200.1.2; CNS 13783-1; ETR 283; C62-1; AS/NZS 3200.1.2; CNS 13783-1; ETR
Radiocommunications	
EU R&TTE Radio Standards;	EN 300 220-1; EN 300 220-3; EN 300 330-1; EN 300 330-2; EN 300 440-1; EN 300 440-2; EN 300 328; EN 300 385; EN 301 893
EU R&TTE EMC Standards	EN 300 339; EN 301 489-01; EN 301 489-03; EN 301 489-17
Canada Radio Standards	RSS-102; RSS-117; RSS-118; RSS-119; RSS-123; RSS-125; RSS-128; RSS-129; RSS-130; RSS-131; RSS-132; RSS-133; RSS-134; RSS-135; RSS-136; RSS-137; RSS-138; RSS-141; RSS-142; RSS-170; RSS-181; RSS-187; RSS-187; RSS-188; RSS-191; RSS-181; RSS-193; RSS-195; RSS-210; RSS-212; RSS-213; RSS-215; RSS-243; RSS-GEN; RSS-310; GL-36;
Australia/New Zealand Radio Standards	AS/NZS 4268; AS/NZS 4771; RFS29; Radiocommunications (Data Transmission Equipment Using Spread Spectrum Modulation Techniques); Radiocommunications (Spread Spectrum Devices); Radiocommunications (Short Range Devices); Radiocommunications (Low Interference Potential Devices);

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Other Radio Standards		RTTE 01 (DGT-Taiwan);				
FCC Standards and Test methods Support TCB Status						
FCC Scope A – Unlicensed Radio Frequency Devices						
A1	1. 47 CFR Parts 11, 15 and 18					
	2. FCC MP-5,					
	3. ANSI C63.4-2003,					
A2	1. 47 CFR Part 15,					
	2. ANSI C63.4-2003,					
A3	1. 47 CFR Part 15,					
	ANSI C63.17-1998,					
	3. ANSI C63.4-2003,					
A4	1. 47 CFR Part 15,					
	2. ANSI C63.4-2003,					
FCC Scope	B – Licensed Radio Service Equipment					
B1	1. 47 CFR Parts 2, 22, 24, 25, and 2	7				
	2. ANSI/TIA-603-C (2004)					
B2	1. 47 CFR Parts 2, 22, 74, 90, 95, a	nd 97				
	2. ANSI/TIA-603-C (2004)					
B3	1. 47 CFR Parts 2, 80, and 87					
	2. ANSI/TIA-603-C (2004)					
B4	1. 47 CFR Parts 2, 21, 74, and 101					
	2. ANSI/TIA-603-C (2004)					

Country Specific Standards and Other	
ITU EMC Standards	K.20; K.21; K.41; K.44
Swedish EMC Standards	BAKOM 3336.3
South African EMC Standards other then CISPR	SABS 1718-1; SANS 211/SABS CISPR 11;
equivalents	SANS 224/SABS CISPR 24;
	SANS 213/SABS CISPR 13;
	SANS 2200; SANS214-1/SABS CISPR 14-1;
	SANS214-2/SABS CISPR 14-2;
	SANS 215/SABS CISPR 15;
	SANS 222/SABS CISPR 22
Hong Kong EMC Standards	HKTA 1006; HKTA 1007; HKTA 1008;
	HKTA 1010; HKTA 1015; HKTA 1026;
	HKTA 1035; HKTA 1039; HKTA 1041;
	HKTA 1042; HKTA 1045
Singapore EMC Standards	IDA TS SRD; IDA TS EMC
Japanese VCCI Standards	VCCI V-3, VCCI V-4

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North American standards

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

Telecom Standards

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

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

to Prevent Harm to the Telephone Network Industry Analogue interworking and non-interference requirements for Customer Equipment for connection to the Public Switched Telephone Network Requirements for Customer Equipment for AS/ACIF S002-2001 AS/ACIF S016-2001

Requirements for Customer Equipment for connection to hierarchical digital interfaces Requirements for ISDN Basic Access Interface Requirements for ISDN Primary Rate Access Interface Requirements for Customer Equipment for Connection to a Metallic Local Loop Interface of a AS/ACIE S031-2001 AS/ACIF S031-2001 AS/ACIF S038-2001 AS/ACIF S043-2001 Telecommunications Network -

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

International standards ITU-T G.703 Physical/electrical characteristics of hierarchical

Digital interfaces

Hong Kong standards HKTA 2011 Network Connection Specification for Connection of Customer Premises Equipment (CPE) to Direct Exchange Lines (DEL) of the Public Switched Telephone Network (PSTN) in Hong Kong Network Connection Specification for Connection of HKTA 2014

Network Connection Specification for Connection of Customer Premises Equipment (CPE) to the Public Telecommunications Network (PTN) in Hong Kong using ISDN Basic Rate Access (BRA) based on ITU-T Recommendations

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Telecom Standards			
	Title	European standards (cont'd)	m : In :
HKTA 2028	Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased	TBR 21: 1998	Terminal Equipment (TE); Attachment requirements For pan-European approval for connection to the
	circuits at data rate of 1544 kbit/s		Analogue Public Switched Telephone Networks
HKTA 2029	Network connection specification for connection of		(PSTNs) of TE (excluding TE supporting the voice
	CPE to the PTNs in Hong Kong using digital leased		telephony service) in which network addressing, if
HKTA 2030	circuits at data rate of 2048 kbit/s Network Connection Specification for Connection of		provided, is by means of Dual Tone Multi Frequency (DTMF) signaling
11K1A 2030	Customer Premises Equipment (CPE) to the Public	TBR 24: 1997	Business TeleCommunications (BTC); 34 Mbit/s
	Telecommunications Network (PTN) in Hong Kong using		Digital Unstructured and structured leased lines
THE ACCU	Digital Leased Circuits at nx64 kbit/s		(D34U and D34S); Attachment requirements for
HKTA 2031	Network Connection Specification for Connection of Customer Premises Equipment (CPE) to the Public	Taiwan standards (DGT)	Terminal equipment interface
	Telecommunications Network (PTN) in Hong Kong using	ADSL01	Asymmetric Digital Subscriber Line Terminal Equipment and
	Digital Leased Circuits below 64 kbit/s		POTS Splitter Technical Specifications
HKTA 2032	Network Connection Specification for Connection of	ID0002	DS1 Equipment Type Approval Guidelines
	Customer Premises Equipment (CPE) to the Public Telecommunications Networks in Hong Kong using	IS6100 PSTN01 (non-voice only)	ISDN Terminal Equipment Technical Specifications Technical Specifications for Terminal Equipment for
	Asymmetric Digital Subscriber Lines (ADSL) based on ITU-T	131Not (non-voice only)	Connection to Public Switched Telephone Network
	Recommendation G.992.1	New Zealand standards	•
HKTA 2033	Network Connection Specification for Connection of	PTC 200 (non-voice only)	Requirements for Connection of Customer Equipment to
	Customer Premises Equipment (CPE) to Fixed Telecommunications Networks in Hong Kong using	PTC 217	Analogue Lines Requirements for Bandwidth Management Devices
	Splitterless Asymmetric Digital Subscriber Lines (ADSL)	TNA 117	Telecom 2048 kbit/s Standard Network Interface
	based on ITU-T Recommendation G.992.2	PTC 270	Interim arrangements for ADSL CPE
European standards	And the state of t	g: g. 1 1	
TBR 1: 1995	Attachment requirements for terminal equipment to Be connected to circuit switched data networks and	Singapore Standards IDA TS ADSL	Type Approval Specification for Asymmetric Digital
	Leased circuits using a CCITT Recommendation	IDA 13 ADSL	Subscriber Line (Full-rate ADSL) Modems
	X.21 interface, or at an interface physically,	IDA TS ADSL 2	Type Approval Specification for Asymmetric Digital
	functionally and electrically compatible with CCITT	IDA TO DI ON I	Subscriber Line Splitterless (G-Lite) Modems
	Recommendation X.21 but operating at any data signaling rate up to, and including, 1 984 kbit/s	IDA TS DLCN 1	Type Approval Specification for Digital Interfaces based on hierarchical bit rates of 2048 kbit/s, 34 368 kbit/s and 139 264
TBR 2: 1997	Attachment requirements for Data Terminal		kbit/s
	Equipment (DTE) to connect to Packet Switched	IDA TS ISDN 1	Type Approval Specification for connection of Terminal
	Public Data Networks (PSPDNs) for CCITT		Equipment to Integrated Services Digital Network (ISDN)
	Recommendation X.25 interfaces at data signaling rates up to 1 920 kbit/s utilizing interfaces derived	IDA TS ISDN 2	Basic Access Type Approval Specification for connection of Terminal
	from CCITT Recommendations X.21 and X.21 bit	15.1.10 10511 2	Equipment to Integrated Services Digital Network (ISDN)
TBR 3: 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN);		Primary Rate Access (PRA)
	Attachment requirements for terminal equipment to	IDA TS PSTN (non-voice only)	Type Approval Specification for connection of Terminal
TBR 4: 1995 + Amdt : 1997	connect to an ISDN using ISDN basic access Integrated Services Digital Network (ISDN);	South Africa standards	Equipment to Public Switched Telephone Network (PSTN)
1310 1. 1993 1 111100 1 1997	Attachment requirements for terminal equipment to	TE-001 (non-voice only)	Standard for Telecommunication Line Terminal Equipment
	connect to an ISDN using ISDN primary rate access		(TLTE) for Connection to the Public Switched Telephone
TBR 012: 1993 + Amdt : 1996	Business Telecommunications (BT); Open Network Provision (ONP) technical requirements; 2 048 kbit/s		Network (PSTN)
	digital unstructured leased line (D2048U) Attachment		
	requirements for terminal equipment		
TBR 013: 1996	Business TeleCommunications (BTC); 2 048 kbit/s		
	digital structured leased lines (D2048S); Attachment requirements for terminal equipment interface		
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P. 1 . 17.6.		Product Safety Standards	Tr.d.
Product Safety General test methods:			Title Classification requirements and user's guide
General test methods:	sibility*, Permissibly limits*, Energy hazard	IEC 60825-1 2001	Classification, requirements and user's guide.
General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L	.imited current*, Capacitor Discharge / voltage	IEC 60825-1 2001 IEC 60825-2 2000-5	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems
General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin	.imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards
General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E	.imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products
General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impu	.imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thu Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1997 & AM 12 – 1997)	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards
General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impd fame*, Needle flame*, Hot flaming oil*, Locke	.imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding 3ond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances
General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTD*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Lock Croque*, Insulation resistance*, Sound level*, I	.imited current*. Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery revierse current*, Ball pressure*, Leakage current*, sluse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm el rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances
General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Locke Torque*, Insulation resistance*, Sound level*, I Transformer shorts/overloads*, Rain test*, 100.	.imited current*. Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding Bond Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, sluse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Imount*, Laser radiation (excluding x-ray)*, Voltage surge*,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1994 CAN/CSA E335-1 1994	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements
General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impu flame*, Needle flame*, Hot flaming oil*, Locke Torque*, Insulation resistance*, Sound level*, I Transformer shorts/overloads*, Rain test*, Wall Functionality*, Protective impedance abnormal*	.imited current*. Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery revierse current*, Ball pressure*, Leakage current*, sluse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm el rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 CIncluding AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements
General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTIP*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impl flame*, Needle flame*, Hot flaming oil*, Locke Torque*, Insulation resistance*, Sound level*, I Transformer shorts/overloads*, Rain test*, Mal Functionality*, Protective impedance abnormal* supply abnormal*, Cooling abnormal*, Heating	imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding Bond Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, sluse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Imount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1994 CAN/CSA E335-1 1994	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for
General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impu flame*, Needle flame*, Hot flaming oil*, Locke Torque*, Insulation resistance*, Sound level*, I Transformer shorts/overloads*, Rain test*, Wall Functionality*, Protective impedance abnormal*	.imited current*. Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thur Insulation (excluding 30nd/Earthing*. Ground continuity*. Temperature*, Stability*, ses*, Battery reverse current*. Ball pressure*, Leakage current*. sluse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm del rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*. Liquid overliow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi-	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 CIncluding AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General
General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impuflame*, Needle flame*, Hot flaming oil*, Locke Torque*, Insulation resistance*, Sound level*, I Transformer shorts/overloads*, Rain test*, Walf Functionality*, Protective impedance abnormal* supply abnormal*, Cooling abnormal*, Heating Product Safety Standards	imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding Bond Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, sluse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Imount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 CIncluding AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements
General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Locke Torque*, Insulation resistance*, Sound level*, If, Transformer shorts/overloads*, Rain test*, Wall Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000	.imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thu Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm del rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* <u>Title</u> Safety of information technology equipment	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1:
General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTD*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wall Functionality*, Protective impedance abnormal* supply abnormal*, Cooling abnormal*, Heating Product Safety Standards Specific Product Safety Standards UL 60950 2000 UEC 60950 1999	.imited current*. Capacitor Discharge (voltage gg*, Creepage, Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, 'Liquid overflow*, Spillage*, 'Liquid leakage*, Ilmount*, Laser radiation (excluding x-ray)*, Voltage surge*, *Capacitor short circuit abnormal*, Aultidevice abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements
General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, I, Transformer shorts/overloads*, Rain test*, Walf Functionality*, Protective impedance abnormal* supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1999 IEC 60950 1999 IEN 60950 2000	.imited current*. Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, slase*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General
General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTD*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wall Functionality*, Protective impedance abnormal* supply abnormal*, Cooling abnormal*, Heating Product Safety Standards Specific Product Safety Standards UL 60950 2000 UEC 60950 1999	.imited current*. Capacitor Discharge (voltage gg*, Creepage, Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, 'Liquid overflow*, Spillage*, 'Liquid leakage*, Ilmount*, Laser radiation (excluding x-ray)*, Voltage surge*, *Capacitor short circuit abnormal*, Aultidevice abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements
General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Locke Torque*, Insulation resistance*, Sound level*, I Transformer shorts/overloads*, Rain test*, Wall Functionality*, Protective impedance abnormal* supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 US 60950-2000	.imited current*. Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, slase*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 EN 60335-1 1995 EN 60335-1 2001 UL 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements
General test methods: Power input", Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground F Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, I Transformer shorts/overloads*, Rain test*, Walf Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103	.imited current*, Capacitor Discharge (voltage gg*, Creepage, Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm el rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Ilmount*, Laser radiation (excluding x-ray)*, Voltage surge*, *Capacitor short circuit abnormal*, Party abnormal*, Multi-device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General
General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTD*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Locke Torque*, Insulation resistance*, Sound level*, I Transformer shorts/overloads*, Rain test*, Wall Functionality*, Protective impedance abnormal* supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 12000 IEC 60950 12000 IEC 60950-1 2001 UL 60950-1 2003 UL 60950-1 2003 UL 60950-1 2003 UL 60950-1 2003 UL 60950-1 2003 UL 60950-1 2003 USA C22.2 No. 60950-00	.imited current*, Capacitor Discharge / voltage g*, Creepage, Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, sluse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm der fotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overlow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 1997-11 21 CFR 1040.10 IEC 60335-1 1995 CINCLUMEN AM2 - 1997 & AM 12 - 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2004	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use: part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety
General test methods: Power input", Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground F Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, I Transformer shorts/overloads*, Rain test*, Walf Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103	.imited current*. Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Ladage current*, slas*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm de rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leadage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 EN 60335-1 1995 EN 60335-1 2001 UL 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 2: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General
General test methods: Power input", Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Locke, Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wall Functionality*, Protective impedance abnormal* supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 EEC 60950 1099 EN 60950 2000 EEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 3 EC 61010-1 1993 EN 61010-1 1993, 2001 EEC 61010-1 1901	.imited current*. Capacitor Discharge (voltage gg*, Creepage, Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, Bulse*, Overvoltage*, Acoustic sound pressure*, 130mm/20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, 'Liquid overflow*, Spillage*, 'Liquid leakage*, Ilmount*, Laser radiation (excluding x-ray)*, Voltage surge*, *Capacitor short circuit abnormal*, Aultidevice abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2004 UL 60601-1: 2003	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety — Part1: General Requirements Information Technology Equipment – Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment , Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety
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Test Technology Accessibility* Acoustic Noise* Airborne Contaminants Altitude Cold Start* Drip Drops* Dust Firearms Resistance Testing Fire Resistance Heat Dissipation* Illumination Operational Temperature & Humidity (OpTH)*	Test Standard IEC 60529 GR-63-CORE Sec 4.6 GR-63-CORE Sec 4.5 GR-63-CORE Sec 4.1.3 ETS 300 019 IEC 60529 ETS 300 019 GR-63-CORE Sec 4.3 IEC 60529 GR-487 ANSLT1.319 GR-63-CORE Sec 4.2 GR-63-CORE Sec 4.1.4 GR-63-CORE Sec 4.7 ETS 300 019	Supporting Standards IP-0x thru IP-6x MFG & Hygroscopic Dust IEC 60068-2-1 IP-x1 & IP-x2 IEC 60068-2-32 IP-5x & IP-6x Fire & Needle Flame IEC 60068-2-1 IEC 60068-2-1 IEC 60068-2-1 IEC 60068-2-1 IEC 60068-2-1	Note 1. For standards or methods listed on the scope of accreditation without a revision date, la expected to be competent in the use of the current version within one year of the date of publics standard test method or upon the date specified by the standard test method originator when the implementation authority. When a superseded standard or method is required for an accredited will include the superseded date/version. For those that support the TCB/CB status of the organ as a certifier on behalf of the FCC or IC the expectation is currency within 30 days of Feetal publication of changes for FCC and 30 days after IC website update. This note shall not be con Accreditation Body implication to adopt a more current standard than is required in a regulation the legal requirement) which is adopted by the lab under their responsibility. * On-site test service is available for this technology, test, or method.	ation of the originator has test, the scope ization acting degister astrued as an
Salt Fog & Spray Spatial* Spraying-Splashing Storage (Temperature & Humidity)*	GR-63-CORE Sec 4.1.2 ASTM B117 GR-63-CORE Sec 2.0 & 3.0 IEC 60529 ETS 300 019	IEC 60068-2-56 IP-x3 & IP-x4 IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-14 IEC 60068-2-30 IEC 60068-2-56		
Vibration	GR-63-CORE Sec 4.1.1 ETS 300 019	IEC 60068-2-6 IEC 60068-2-27 IEC 60068-2-29 IEC 60068-2-32 IEC 60068-2-57 IEC 60068-2-64 Earthquake, Office &		
Water Immersion Water Jet	GR-63-CORE Sec 4.4 IEC 60529 IEC 60529	Transportation IP-x7 & IP-x8 IP-x5 & IP-x6		
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