

Test Report

Report No EJ0308-1 Issue 2

Company Signal Fire Telemetry, Inc.

A-403, 43 Broad Street Hudson, MA 01749

Phone 978-212-2868

FRN 001814347

Model SFTS-300-LNA

FCC ID W8VSFTS300LNA 8373A-SFTS300LNA

Equipment Type Equipment Code Frequency Hopping Spread Spectrum Transmitter DSS

Prepared by

Evan Gould - Compliance Engineer

Authorized by

Mairai Hussain – EMC Supervisor

Issue Date

July 22, 2009

Conditions of Issue

This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 26 of this report.

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Summary

This test report supports an application for certification of a transmitter operating pursuant to 47 CFR 15.247. The product is the Signal Fire SFTS-300-LNA Radio Module. It is a frequency hopping transmitter operating in the range 905-925MHz.

The two available antennas are:

Nearson Model S161AM-915 2.5dBi SFTS Model 9-4-ANT 5dBi

The EUT also incorporates digital circuitry comprising a Class B device subject to Verification, as well as a receiver subject to Verification as per 15.101(b). A separate test report has been issued.

The section covering receiver spurious emissions is included in this report to satisfy the requirements of RSS-Gen Section 6.

Test Methodology

Testing was performed according to ANSI C63.4-2003. Radiated emissions were maximized by rotating the device around its three orthogonal axes, as well as varying the test antenna's height and polarity. Line conducted emissions was performed on the AC side of a variable DC supply with a 50Ω , 50μ H LISN.

Frequency range investigated: 30MHz – 10GHz

Measurement distance for Radiated Emissions: 3m and 1m



Product Tested - Configuration Documentation

				EUT Con	figuratio	on				
Company Address	: Signal Fire T : 43 Broad Sti Hudson, MA :: Scott Keller	reet, Suite A-40 01749	13							
		MN						SN		
EUT	:	SFTS-300-LN	Α		·		·	1		
EUT Description EUT Max Frequency		le								
Support Equipment:		MN						SN		
None										
EUT Ports:										
Port Label	Port Type	No. of ports	No. Populated	Cable Type	Shielded	Ferrites	Length	Max Length	In/Out NEBS Type	Unpopulated Reaso
Antenna	SMA	1	1	Coax	Yes	1 clamp-on*	6in	6in	N/A	N/A
lote: Steward-Laird #HFA10004 Iftware / Operating Mode Desc IT transmitting on different chan	ription:							son antenna.		

Emission Bandwidth

EQUIPMENT

GOLD SPECTRUM ANALYZER HF 20DB 50W ATTENUATOR

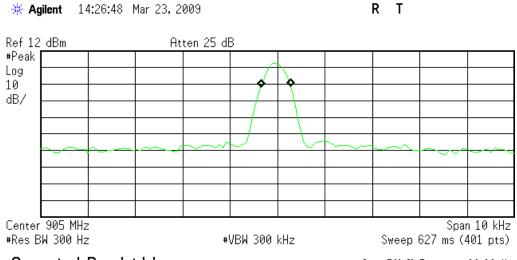
MEASUREMENT

Frequency	20dB Emission Bandwidth
(MHz)	(Hz)
905	761.2
915	718.6
925	723.6

Tested by EG on 3/23/09

PLOT

Emission Bandwidth



Occupied Bandwidth 642.7413 Hz

Occ BW % Pwr 99.00 % x dB -20.00 dB

Transmit Freq Error -40.437 Hz x dB Bandwidth 761.162 Hz

C:temp.gif file saved



Peak Output Power

LIMIT

"The maximum peak conducted output power of the intentional radiator shall not exceed...1 Watt." [15.247(b)(2)]

 $Limit = 10 \times \log(1000mW) = 30dBm$

EQUIPMENT

GOLD SPECTRUM ANALYZER HF 20DB 50W ATTENUATOR

MEASUREMENTS

Peak Ou	itput Pov	wer				Curtis-S	Straus LLC				
Date	: 16-Apr-09			Work Order: J0308							
Engineer	Engineer: Evan Gould										
Company: Signal Fire EUT Desc: Radio Module											
Notes	Notes: RBW: 120kHz										
						VBW:	300kHz				
			Attenuator	Adjusted	47 (CFR 15.247(b)(2)				
Channel	Frequency	Reading	Factor	Reading	Limit	Margin	Result				
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(Pass/Fail)				
low	905.0	3.5	19.5	23.0	30.0	-7.0	Pass				
middle	915.0	3.5	19.5	23.0 30.0 -7.0 Pass							
high	925.0	3.7	19.5	23.2	30.0	-6.8	Pass				
Analyzer	: Gold			Attenuator:	PE7019-20						

SAMPLE CALCULATION

Adjusted Reading[dBm] = Reading[dBm] + Attenuator Factor[dB]

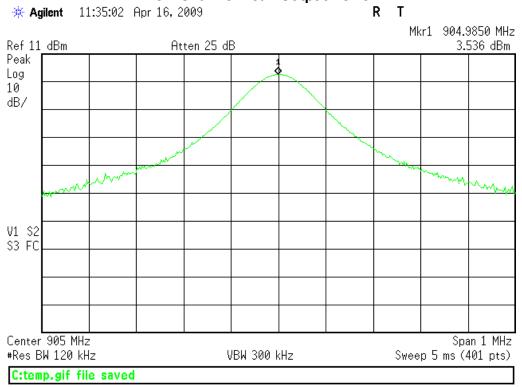
Adjusted Reading = 3.7dBm + 19.5dB

Adjusted Reading = 23.2dBm

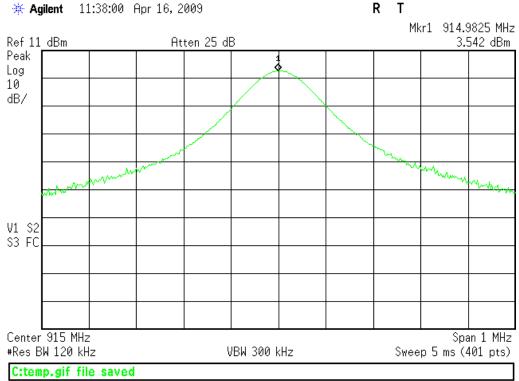


PLOTS

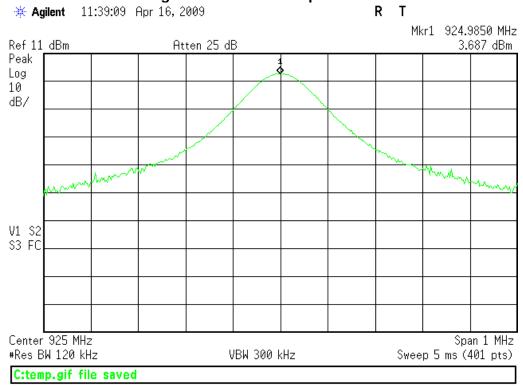
Low Channel Peak Output Power



Mid Channel Peak Output Power



High Channel Peak Output Power



Number of Hopping Frequencies

<u>LIMIT</u>

"...if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies..." [15.247(a)(1)(i) & RSS-210 A8.1(c)]

EQUIPMENT

GOLD SPECTRUM ANALYZER HF 20DB 50W ATTENUATOR

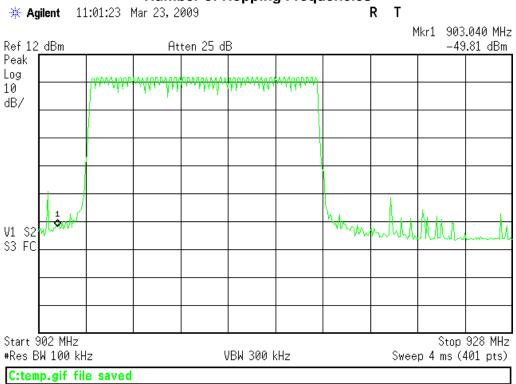
MEASUREMENT

Number of hopping frequencies = **50**

Tested by EG on 3/23/09

PLOT

Number of Hopping Frequencies



Note: The radio utilizes 50 hopping frequencies, however 50 frequencies do not use the entire available spectrum. It is possible that 50 channels will be chosen so that the highest channel is at 925MHz, therefore this frequency was used as the high channel for all testing.

Time of Occupancy

LIMIT

"...if the 20 dB bandwidth of the hopping channel is less than 250 kHz...the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period" [15.247(a)(1)(i) & RSS-210 A8.1(c)]

EQUIPMENT

GOLD SPECTRUM ANALYZER HF 20DB 50W ATTENUATOR

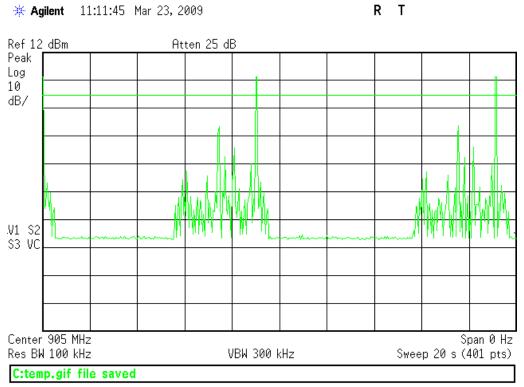
MEASUREMENT

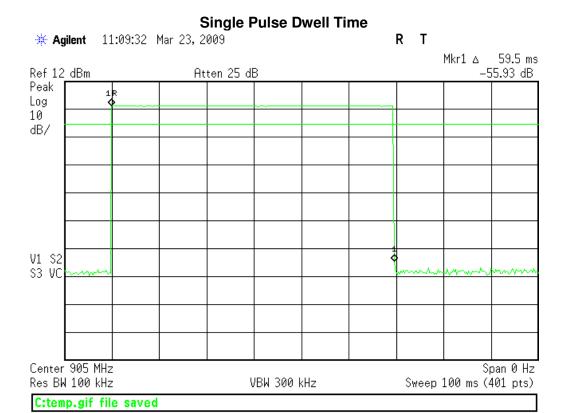
Number of pulses per 20s = 3 Dwell time of one pulse = 59.5ms Time of Occupancy = 3 x 59.5ms = **178.5ms**

Tested by EG on 3/23/09.

PLOTS

Number of Pulses Per 20s





Duty Cycle Factor

$$DutyCycleFactor = 20 \times \log \frac{on - time}{100ms}$$

$$DutyCycleFactor = 20 \times \log \frac{59.5ms}{100ms} = -4.5dB$$

Carrier Frequency Separation

LIMIT

"Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater." [15.247(a)(1) & RSS-210 A8.1(a)]

EQUIPMENT

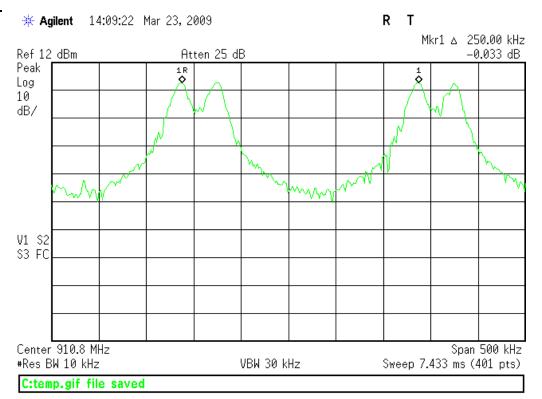
GOLD SPECTRUM ANALYZER HF 20DB 50W ATTENUATOR

MEASUREMENT

Carrier frequency separation = 250kHz

Tested by EG on 3/23/09

PLOT



Out-of-band Emissions

LIMIT

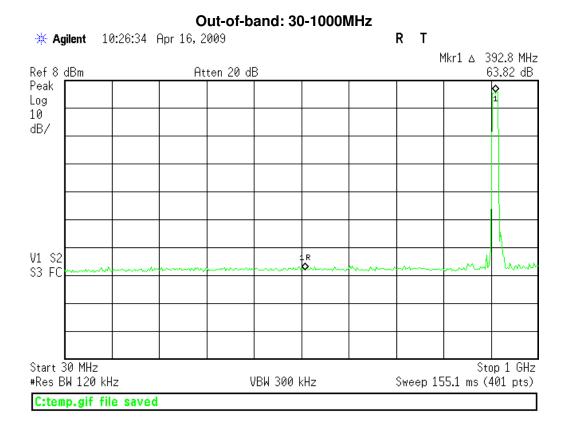
"In any 100kHz bandwidth outside the frequency band in which the...intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power..." [15.247(d)]

EQUIPMENT

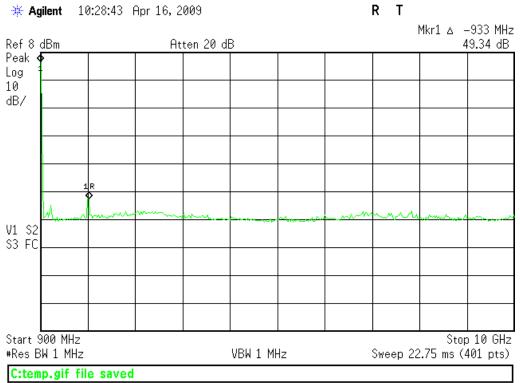
GOLD SPECTRUM ANALYZER HF 20DB 50W ATTENUATOR

PLOTS

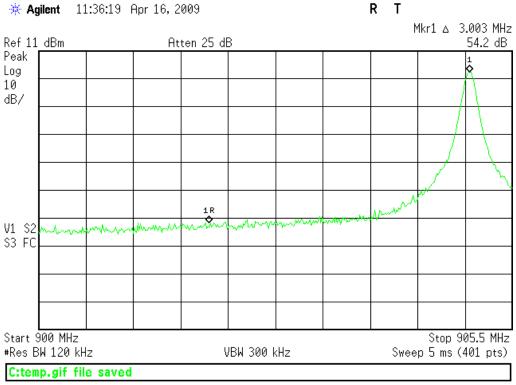
No emissions found within 20dB of the fundamental. See plots below.



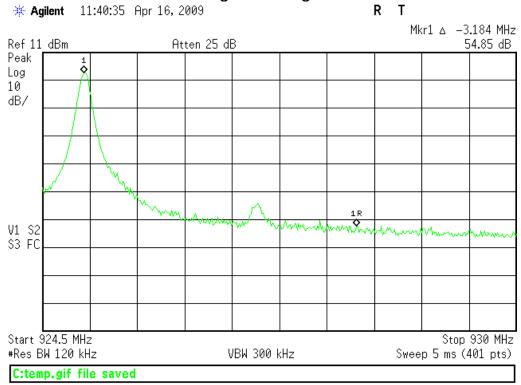




Low Band Edge



High Band Edge



Restricted Band Radiated Spurious Emissions

LIMIT

"...radiated emissions which fall in the restricted band, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a)." [15.247(d)]

MEASUREMENTS

Date:	17-Apr-09		Company:	SignalFire	Telemetry						Work Order:	J0308		
Engineer:	Tuyen Truong			- 3	,	FTS-300-LNA)				EUT Operating Vo	Itage/Frequency:	5Vdc		
	Freque	ency Range:	30 to 1000	MHz					Measi	rement Distance: 3	3 m			
Notes:										-	925 MHz (Fundametal)			
Antenna			Preamp	Antenna	Cable	Adjusted					FCC Class B	Gircuitry)		
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)		
JT with Nearson		(
vbb	37.75	33.8	25.7	14.8	0.7	23.6				40.0	-16.4	Pass		
vbb	74.5	41.7	25.5	6.8	1.0	24.0				40.0	-16.0	Pass		
v	110.56	36.5	25.5	12.3	1.2	24.5				43.5	-19.0	Pass		
v	125.0	30.5	25.6	12.6	1.3	18.8				43.5	-24.7	Pass		
nf	149.7	31.9	25.5	11.3	1.5	19.2				43.5	-24.3	Pass		
nf	156.2	31.8	25.5	11.0	1.4	18.7				43.5	-24.8	Pass		
nf	165.4	30.8	25.6	10.6	1.5	17.3				43.5	-26.3	Pass		
v	171.3	35.2	25.6	10.3	1.5	21.4				43.5	-22.1	Pass		
v	264.96	31.0	25.5	13.3	2.0	20.8				46.0	-25.2	Pass		
v	324.4	29.3	25.6	14.4	2.3	20.4				46.0	-25.6	Pass		
v	327.0	31.3	25.6	14.4	2.3	22.4				46.0	-23.6	Pass		
v	331.76	29.9	25.6	14.6	2.3	21.2				46.0	-24.8	Pass		
v	612.5	28.0	25.3	19.3	3.3	25.3				46.0	-20.7	Pass		
v	967.5	28.4	25.8	22.3	4.4	29.3				54.0	-24.7	Pass		
JT with Externa	l Antenna													
vbb	37.6	34.2	25.7	14.9	0.7	24.1				40.0	-15.9	Pass		
vbb	74.5	44.1	25.5	6.8	1.0	26.4				40.0	-13.6	Pass		
v	110.0	37.5	25.5	12.3	1.2	25.5				43.5	-18.0	Pass		
v	125.0	31.2	25.6	12.6	1.3	19.5				43.5	-24.0	Pass		
v	171.7	34.5	25.6	10.3	1.5	20.7				43.5	-22.8	Pass		
v	265.4	32.2	25.5	13.3	2.0	22.0				46.0	-24.0	Pass		
v	324.4	28.2	25.6	14.4	2.3	19.3				46.0	-26.7	Pass		
v	327.9	31.5	25.6	14.5	2.3	22.7				46.0	-23.3	Pass		
v	331.8	33.9	25.6	14.6	2.3	25.2				46.0	-20.8	Pass		
v	612.5	26.5	25.3	19.3	3.3	23.8				46.0	-22.2	Pass		
v	963.0	27.8	25.8	22.3	4.4	28.7				54.0	-25.3	Pass		
Tabi	le Result:	Pass	by	-13.6	dB					Worst Freq:	74.5	MHz		
Test Site:	"1.4"		Pre-Amp:	0		0.11.	EMIR-14		Analyzer:	, Division	Antenna:	O DII		

Radiated	Emissio	ns Tabl	e									Bureau V	eritas Consumer	Products Services	
Date:	Date: 17-Apr-09 Company: SignalFire Telemetry												Work Order:	: J0308	
Engineer:	Tuyen Truong			EUT Desc:	Radio Mod	ule						EUT Operating V	oltage/Frequency:	: 5Vdc	
		Freque	ency Range:	1 to 10GHz							Meas	urement Distance:	1 m		
Notes:	Refered to Res	stricted Band	ds of Operation	n (section 1	5.205 of FC	CC)						EUT Max Freq:	925 MHz (Fundam	ietal)	
	a VHP19 High	Pass Filter i	s used in line	with Black	Horn antenr	na							25 MHz (Associate	ed Circuitry)	
Antenna		Peak	Average	Preamp	Antenna	Cable	Adjusted	Adjusted	FCC Cla	ss B High Frequer	ıcy - Peak	FCC Clas	s B High Frequenc	cy - Average	
Polarization	Frequency	Reading	Reading	Factor	Factor	Factor	Peak Reading	Avg Reading	Limit	Margin	Result	Limit	Margin	Result	
(H / V)	(MHz)	(dBµV)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)	
Nearson antenna															
v	2755.0	38.66	31.1	0.0	29.9	1.6	70.2	62.6	83.5	-13.3	Pass	63.5	-0.9	Pass	
v	3670.0	36.0	28.1	0.0	32.4	1.7	70.1	62.2	83.5	-13.4	Pass	63.5	-1.3	Pass	
v	4624.0	31.7	18.6	0.0	33.3	2.0	67.0	53.9	83.5	-16.5	Pass	63.5	-9.6	Pass	
External antenna															
v	2755.0	36.5	27.6	0.0	29.9	1.6	68.0	59.1	83.5	-15.5	Pass	63.5	-4.4	Pass	
v	3670.0	35.64	26.5	0.0	32.4	1.7	69.7	60.6 83.5 -13.8 Pass 63.5 -2.9 Pass							
v	4624.0	34.85	22.3	0.0	33.3	2.0	70.2	57.6	57.6 83.5 -13.4 Pass 63.5 -5.9 Pass						
Test Site:	"M"			Pre-Amp:	none			Cable:	EMIR-HIGH-21		Analyzer:	Black	Antenna:	: Black Horn	

Receiver Spurious Emissions

LIMITS

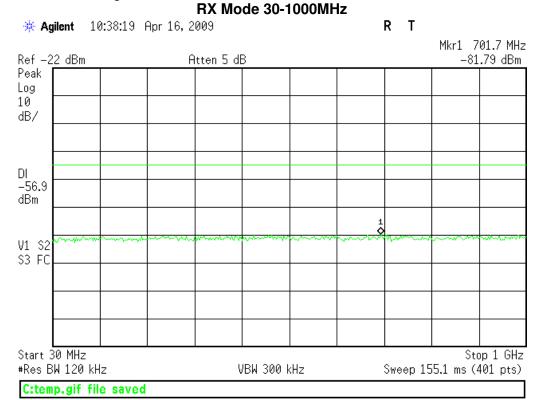
"If a radiated measurement is made, all spurious emissions shall comply with the limits of Table 1."

Spurious Frequency (MHz)	Field Strength (microvolt/m at 3 metres)
30-88	100
88-216	150
216-960	200
Above 960	500

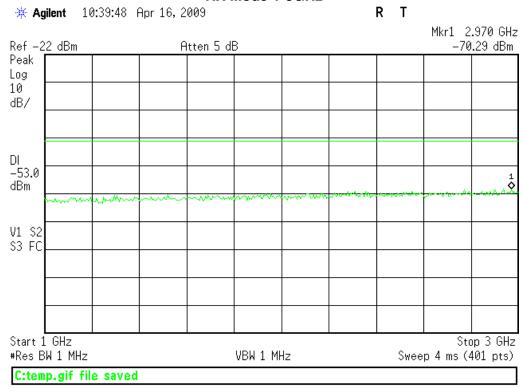
[RSS-Gen Issue 2 §6(a)]

MEASUREMENTS

No emissions in the range 30MHz to 3GHz were detected with EUT in RX mode.



RX Mode 1-3GHz



AC Line Conducted Emissions **LIMITS**

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

^{*}Decreases with the logarithm of the frequency. [47 CFR 15.207(a)]

MEASUREMENTS

AC Mains	Conduct	ed Emi	ssions	;					Curtis-Str	aus LLC		
Date:	23-Mar-09			company:	Signal Fire Tel	emetry			Work Order:	J0308		
Engineer:	Mohamed Ali		E	EUT Desc: SignalFire Test Site								
Notes:	AC side of DC	power suppl	у									
	Measurement Device: Red LISN EUT Operating Voltage/Frequency: 120VAC/60Hz											
Range:	0.15-30MHz	Spectrum Analyzer: Red										
				Impedance FCC/CISPR B FCC/CISPR B								
	Q.P. Rea	adings	Ave. Re	eadings	Factor				Overall			
Frequency	QP1	QP2	AV1	AV2		qp Limit	qp Margin	AVE Limit	AVE Margin	Result		
(MHz)	(dBμV)	(dBµV)	(dBµV)	(dBµV)	(dB)	(dBµV)	dB	(dBμV)	dB	(Pass/Fail)		
0.23	15.0	16.7	5.8	7.3	20.2	62.6	-25.7	52.6	-25.1	Pass		
0.26	14.1	16.1	6.0	8.2	20.2	61.6	-25.3	51.6	-23.2	Pass		
19.93	7.0	8.5	3.5	4.8	20.3	60.0	-31.3	50.0	-24.9	Pass		
20.51	8.5	6.9	3.8	3.8	20.3	60.0	-31.2	50.0	-25.9	Pass		
20.95	7.7	5.9	4.8	4.1	20.3	60.0	-32.0	50.0	-25.0	Pass		
21.10	6.8	7.1	4.3	3.7	20.3	60.0	-32.6	50.0	-25.4	Pass		
Tab	le Result:	Pass	by	-23.20	dB		Wa	orst Freq:	0.26	MHz		

Test Equipment Used

Concerning Assessment						R	v. 17-FEB	-2009	
Spectrum Analyzers / Receivers	RANGE	MN	MFR	9	SN	ASSET	Cat	Г	CALIBRATION DUE
RED	9kHz-1.8GHz		gilent	3441	403559		I		Out for Cal
WHITE	9kHz-22GHz		gilent	3547	J01252		I		10-DEC-2009
BLUE	9kHz-1.8GHz		gilent	3223/	400227		I		Out of Cal
YELLOW	9kHz-2.9GHz		gilent		401958		1		19-JAN-2010
GREEN	9kHz-26.5GHz		gilent		403618		I		02-JUN-2009
BLACK	9kHz-12.8GHz		gilent		400944		I		05-SEP-2009
TELECOM 3585A	20Hz-40.0MHz		gilent		405219		!		09-APR-2009
GOLD	100Hz-26.5 GHz		gilent		113816				06-AUG-2009
SA CHAMBER 1	9kHz-13.2 GHz		gilent		103416		!		Out for Cal
SA CHAMBER 2	9kHz-13.2 GHz		gilent		210241		!		Out for Cal
REFERENCE EMI TEST RECEIVER	20-1000MHz		R&S		57/001	01098			To be determined
RENTAL SA #1 (BROWN)	9kHz-26.5GHz		gilent		210511		!		10-FEB-2010
RENTAL SA #2	100Hz-26.5 GHz		gilent		104916				Out for Cal
RENTAL SA #5	9kHz-26.5 GHz	E4407B A	gilent	MY44	220066	Rental	ı		02-FEB-2010
LISNs/MEASUREMENT									
PROBES	RANGE	MN		MFR		SN	ASSET	CAT	CALIBRATION DU
RED LISN	9ĸHz-50MHz	8012-50-R-24-BN	IC	SOLAR	95	56348	00753	I	16-JUN-2009
BLUE LISN (DC)	50kHz-50MHz	8012-50-R-24-BN	IC	SOLAR	95	56349	00752	- 1	29-JUL-2009
YELLOW-BLACK LISN	30kHz-50MHz	8012-50-R-24-BN	IC	SOLAR	04	11657	00248	- 1	28-MAY-2009
ORANGE LISN	9ĸHz-50MHz	8012-50-R-24-BN	IC	SOLAR	90	3707	00754	- 1	02-MAY-2009
GOLD LISN (DC)	9ĸHz-50MHz	8012-50-R-24-BN	IC	SOLAR	98	34734	00247	- 1	15-JUL-2009
Brown LISN	9ĸHz-50MHz	8012-50-R-24-BN	IC	SOLAR	04	11656	00986	- 1	15-JUL-2009
GREEN LISN	9kHz-50MHz	8012-50-R-24-BN	IC	SOLAR	98	34735	00987	- 1	11-FEB-2010
YELLOW LISN	9kHz-50MHz	8012-50-R-24-BN		SOLAR		11658	1080	- 1	15-DEC-2009
RENTAL SILVER LISN	9kHz-34MHz	8012-50-R-24-BN	IC	SOLAR		79440	RENTAL	I	28-JUL-2009
WHITE-BLACK LISN	10kHz-30MHz	8610-50-TS-100-	N	SOLAR		72019	00678	I	14-MAY-2009
BLACK LISN	10kHz-30MHz	8610-50-TS-100-		SOLAR		72017	00675	- 1	30-JUN-2009
RED-BLACK LISN	10kHz-30MHz	8610-50-TS-100-		SOLAR		72016	00677	I	30-JUN-2009
BLUE-BLACK LISN	10kHz-30MHz	8610-50-TS-100-	N	SOLAR		72018	00676	I	14-MAY-2009
BLUE MONITORING PROBE	0.01-150MHz	91550-2		TEGAM		2350	00807	!	31-MAY-2009
YELLOW MONITORING PROBE	0.01-150MHz	91550-2		ETS		0972	00493	I	29-JAN-2010
BROWN MONITORING PROBE	0.01-250MHz	F-33-1		FISCHER		425	1110	- 1	23-JAN-2010
WHITE MONITORING PROBE	0.01-250MHz	CSP-8423-1		CHAFFNER		510	1112	I	23-JAN-2010
GREEN CURRENT TRANSFORMER	40Hz-20MHz	150	F	PEARSON		0226	00793	1	19-APR-2009
BLUE CISPR LINE PROBE	10kHz-50MHz	N/A		C-S		N/A	00805	II	08-JUN-2009
BLACK CISPR LINE PROBE	10kHz-50MHz	N/A		C-S		N/A	1254	II	08-JUN-2009
CISPR TELCO VOLTAGE PROBE	10kHz-30MHz	CS A/C-10		_ C-S		CS01	00296	II.	11-AUG-2009
CISPR 22 TELCO ISN	9кHz-30MHz	FCC-TLISN-T4		FISCHER	2	0115	00746	<u> </u>	14-JAN-2011
OPEN AREA TEST SITES (O	ATS)	FCC CODE		IC CODE		/CCI CODE	Сат		CALIBRATION DUE
SITE F	7.10)	93448		2762A-1		R-1688	II		27-JUL-2010
SITE T		93448		2762A-1		R-905	ii II		06-DEC-2009
SITE A		93448		2762A-2		R-903	ii II		04-DEC-2009
SITE M		93448		2762A-4		R-904	ii		25-JUN-2010
SITE J		93448		2762A-3		R-2377	ii		06-MAY-2010
Conducted Test Sites (Mains	s / TELCO)	FCC CODE		IC CODE		VCCI COD		Сат	CALIBRATION DUI
EMI 1		93448		N/A		C-1801, T-2		Ш	NA
EMI 2		93448		N/A		C-1802, T-2		Ш	NA
EMI3		93448		N/A		C-1803, T-2		Ш	NA
EMI 4		93448		N/A	(C-3013, T-3	91	III	NA
					ON			0.	
MIXERS/DIPLEXERS RANGE	MN	MFR			SN	ļ.	ASSET	CAT	CALIBRATION DUE

MIXERS/DIPLEXERS	RANGE	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
Mixer / Horn	26.5-40 GHz	11970A/28-442-6	HP/ATM	2332A01695/A046903-01	1087	ı	01-OCT-2009
MIXER / HORN	26.5-40 GHz	11970A/28-442-6	HP/ATM	3003A07825/A046903-01	1086	- 1	OUT OF CAL
MIXER / HORN	40-60 GHz	M19HW/A	OML	U30110-1	00821	- 1	29-JUN-2009
MIXER	33-50 GHz	11970Q	HP	3003A03155	00104	- 1	28-NOV-2009
MIXER / HORN	50-75 GHz	11970V/QWH-VPRROO	HP/QuinStar	2521A01197/8794001	1179	- 1	28-NOV-2009
MIXER	75-110 GHz	11970W	HP	2521A01334	00105	- 1	28-NOV-2009
MIXER / HORN	60-90 GHz	M12HW/A	OML	E30110-1	00822	- 1	29-JUN-2009
MIXER / HORN	90-140 GHz	MO8HW/A	OML	F21206-1	00811	1	29-JUN-2009

Mixer / Horn Diplexer	140-220 GHz 40-220 GHz	MO5HW/A DPL.26	OML OML		206-1 N/A		0812 0813	I I	29-JUN-2009 29-JUN-2009
ABSORBING									
CLAMPS	RANGE	MN		MFR	SN	Asse	T C	CAT	CALIBRATION DUE
FISCHER CLAMP	30-1000MHz	F-201-23	RMM F	ISCHER	10	0008	1	I	29-JAN-2010
1.00.112.1.02.1111						0000	•	•	20 07 11 20 10
HARMONIC & FLICKER	ANALYZER M	1N	MFR		SN	As	SSET	Сат	CALIBRATION DUE
100011/2 AC POWER S			ORNIA INSTRUMENT				00376 II		04-MAR-2009
	()								
PREAMPS / COUPLERS	D		N 4 N 1	14		211		0	0
ATTENUATORS / FILTER	s Range		MN	MFR	,	SN	ASSET	Сат	CALIBRATION DUE
RED	0.009-2000MHz	z ZFL	-1000-LN	C-S		N/A	00798	II	04-APR-2009
BLUE	0.009-2000MHz		-1000-LN	C-S		N/A	00759	Ш	04-APR-2009
BLUE-BLACK	0.009-2000MHz		-1000-LN	C-S		V/A	00800	II.	30-MAY-2009
GREEN	0.009-2000MHz		-1000-LN	C-S		N/A	00802	II	03-DEC-2009
BLACK	0.009-2000MHz		-1000-LN	C-S		N/A	00799	II.	14-AUG-2009
ORANGE BED WHITE	0.009-2000MHz		-1000-LN	C-S C-S		N/A N/A	00765 1258	II II	19-DEC-2009
RED-WHITE WHITE	0.009-2000MHz 1-18GHz		-1000-LN	C-S			00760	II II	04-APR-2009
BROWN	1-18GHZ 1-20GHZ		MC-12A 8-4R5-17-15-SFF	C-S		6643 1655	1132	II II	08-JUL-2009 16-OCT-2009
RED-GREEN	1-20GHz		8-4R5-17-15-SFF	C-S		1/A	1256	ii	18-AUG-2009
RED-BLUE	1-20GHz		8-4R5-17-15-SFF	C-S		3177	1257	ii	OUT OF SERVICE
HF (YELLOW)	18-26.5GHz		002650-60-8P-4	C-S		7559	1266	1	01-OCT-2009
HIGH PASS FILTER	0.03-20 GHz	SPA	\-F-55204	K&L		36	00817	Ш	08-JAN-2010
Low Pass Filter	0.03-18 GHz	11SL10-4	100/X4400-O/O	K&L		4	00816	Ш	08-JAN-2010
HIGH PASS FILTER	0.03-6.5 GHz		000/T3000-0/0	K&L		1	1310	Ш	08-JAN-2010
HIGH PASS FILTER	0.03-14.5 GHz		3000/T9000-0/0	K&L		1	1311	Ш	08-JAN-2010
HIGH PASS FILTER	0.03-8 GHz		/HP-19	MINI-CIRCUITS		NA	1287	II	08-JAN-2010
HIGH PASS FILTER	0.03-9 GHz		/HP-16	MINI-CIRCUITS		NA	1288	II	08-JAN-2010
HF 20DB 50W ATTENUATOR HF 30DB 50W ATTENUATOR			7019-20 7019-30	Pasternack Pasternack		01 02	00791 1168	II II	08-MAY-2009 08-MAY-2009
40DB 100W ATTENUATOR			10N100W+	MINI-CIRCUITS		02 4900638	1231	ii II	OUT OF CAL
RFI-Low 130 KHz LPF	10-100kHz Pas		KHZ LPF	Kiwa		4900030 NA	1235	ii	17-APR-2009
50W HF DIRECT. COUPLER			C7420	AR		25960	1307	ii	OUT OF CAL
500W DIRECT. COUPLER	0.009-2000MHz		6277-10	WERLATONE		1911	1264	ii	03-DEC-2009
200W DIRECT. COUPLER	0.009-2000MHz	z C5	5571-10	WERLATONE	23	3098	1185	Ш	03-DEC-2009
ANTENNAS	RANGE	MN	MFR	SN	ASSET	Сат		CALIBR	ATION DUE
GREEN BILOG	30-2000MHz	CBL6112B	CHASE	2742	00620	I			EC-2010
GREEN-BLACK BILOG	30-2000MHz	CBL6112B	CHASE	2412	00127	1			EB-2010
GREEN-RED BILOG	30-2000MHz	CBL6112B	CHASE	2435	00990				PR-2010
BLUE BILOG	30-1000MHz	3143	EMCO	1271	00803	II			AY-2009
GRAY BILOG YELLOW-BLACK BILOG	20-2000MHz	3141 CBL6140A	EMCO	9703-1038 1112	00066 00126	II II	07 MAV 1		'-2009(EMI)) / 14-AUG-2009(RFI1)
RED-WHITE BILOG	20-2000MHz 30-2000MHz	JB1	CHASE SUNOL	A091604-1	01105	ï	U7-IVIA 1-2		EC-2010
RED-BLACK BILOG	30-2000MHz	JB1	SUNOL	A091604-2	01106	i			CT-2010
RED-BROWN BILOG	30-2000MHz	JB1	SUNOL	A0032406	1218	i			JG-2010
YELLOW HORN	1-18GHz	3115	EMCO	9608-4898	00037	i	31-MAY-2) / 22-MAY-2009 (RFI)
BLACK HORN	1-18GHz	3115	EMCO	9703-5148	00056	1) / 22-MAY-2009 (RFI)
ORANGE HORN	1-18GHz	3115	EMCO	0004-6123	00390	1) / 16-MAY-2009 (RFI)
HF (WHITE) HORN	18-26.5GHz	801-WLM	WAVELINE	00758	00758	I	I		Before Use
SMALL LOOP	10kHz-30MHz	PLA-130/A	ARA	1024	00755	Į,			AR-2010
LARGE LOOP	20Hz-5MHz	6511	EMCO	9704-1154	00067	ļ			EB-2010
RENTAL 6509 LOOP	1KHz-30MHz	6509	EMCO	1503	RENTAL	 			EB-2010
ACTIVE MONOPOLE INDUCTION COIL	30Hz-30MHz 50-60Hz	3301B 1000-4-8	EMCO C-S	3824 N/A	00068 00778	II II			JN-2009 AY-2010
INDUCTION COIL	50-60Hz	1000-4-8	C-S	N/A N/A	1314	II			AY-2010 AY-2010
ADJUSTABLE DIPOLE	30-1000MHz	3121C	EMCO	1370	00757	ï			EC-2010
ADJUSTABLE DIPOLE	30-1000MHz	3121C	EMCO	1371	00756	i			EC-2010
RE101 LOOP SENSOR	30Hz-100ĸHz	RE101-13.3CM	C-S	N/A	00818	Í			AR-2009
RS101 RADIATING LOOP		RS101-12CM	C-S	N/A	00819	П		22-M	AR-2009
RS101 LOOP SENSOR	30Hz-100ĸHz	RS101-4cm	C-S	N/A	00820	II		22-M	AR-2009
EFT		MN	MFR		SN		ASSET	Сат	CALIBRATION DUE
CAS 3025 BURST		OCE A /OCC	Courselle	-	00000		00047	II	04 1111 0040
VERIFICATION ATTENUA	IINA 2	265A/266	SCHAFFNE	.H	20096		00947	11	31-JUL-2010



EFT DIRECT COUPLING CAP		N/A		C-S		01			00794 II		03-OCT-2009			
MODULA6150		MODULA6150		TESEQ			34525		1268		24-NOV-2009			
RED BESTEMC-2		711-1100		SCHAFFNER		200122-	0/450	006	23	II	27-FEB-2009	<u> </u>		
ESD GENERATORS		MN			MFR			SN		SET	Сат	(CALIBRATION DUE	:
GREE			NSG435			AFFNER	-	00839		763	- 1		18-DEC-2009	
RED			NSG435			AFFNER	C	01625		762	- !		13-MAR-2009	
YELLO	W		930D		E	TS		201	201 00673		ı		27-SEP-2009	
DIPS AND	D I NTERRUPT	s	M	IN	MFF	₹		SN		ASSET	CAT	CAL	LIBRATION DUE	
Мог	DULA6150		Modul	A6150	TESE	:O		34525		1268		Τ (OUT FOR CAL	
INA 6502 AUTOMA		FORMER		6502	TESE			105		1269	i		OUT FOR CAL	
	BESTEMC-2	. 01		1100	SCHAFF		2001	22-074SC		00623	i		7-FEB-2009	
	MPACT4			PACT4	HAEFE			55858		RENTAL	ii		1-FEB-2009	
CHAMBERS AND	STRIPLINE		MN			MFR		SN	Asse	T CA	т (CALIBRA	ATION DUE	
RFI 1 CHA		3 Mi	ETER CON	MPACT	PA	NASHIEL	D	N/A	0079				JG-2009	
RFI 2 CHA		_	" SHIELDIN	-				13329	0079				EB-2009	
RFI 3 STR			N/A			C-S		N/A	0079				NA	
ENVIRONMENT	AL (SAFETY)		ECL5		B-	M-A Inc	;.	2041	0002	9 I		03-JA	N-2009	
ENVIRONMENT	AL (SAFETY)		SGTH-31	IS	B-M-A Inc.) <u>. </u>	2245	0032	1 I		03-JA	N-2009	
AMPLIFIERS	RANGE	M	IN	MFR		SN	ASSET	Сат			CALIBE	RATION	DUE	
RED	0.5-1000MHz	10W1	1000B	AR	18	708	00032	II		Оит	OF CAL	/ FEEDB	BACK ONLY	
GREEN	0.5-1000MHz	10W1	1000B	AR	23	423	00123	II			07-FEB	-2009 (F	RFI2)	
BLUE	0.01-100MHz	75A	250	AR	19	165	00039	II	09-	JUN-09 (NE	BS CR	FI) / 24-J	JUN-2009 (EU CRF	l)
BLACK	0.01-100MHz		250	AR	23	411	00122	II	09-	JUN-09 (NE	BS CRF	=I) / 24-J	JUN-2009 (EU CRF	l)
ORANGE	0.01-100MHz		250	AR		827	00367	II	09-ر	•		,	JUN-2009 (EU CRF	I)
BROWN 150W	0.1-250MHz		A250	AR	-	3454	1255	II II				-2009 (F	,	
YELLOW 150W 500W AMP	80-1000MHz 0.1-250MHz		/1000 4250	AR AR		.4607 .6385	1253 1297	II II				i-2009 (l i-2009 (l		
GTC 1-2.6	1.0-2.6 GHz		5016A	GTC		221	RENTAL	ii	16-MAY			,	AY-2009 (BLK AND YELL	LOW)
HUGHES 10W	2.0-4.0GHz	1177	7H01	HUGHES	0	55	RENTAL	II	16-MAY	/-2009 (ORAN	IGE HORN) / 22-MA	AY-2009 (BLK AND YELL	LOW)
HUGHES 10W	4.0-8.0GHz	8010	H02F	HUGHES	2	40	RENTAL	II			OUT	OF SERVI	CE	
HUGHES 10W	4.0-8.0 GHz	8010	H02F	HUGHES	1	97	RENTAL	II	1	1-AUG-2009	(ORANGE	E, BLACK	AND YELLOW HORNS)	
HUGHES 10W	8-10.0GHz		108	HUGHES		38	RENTAL	II	16-MAY	•		,	AY-2009 (BLK AND YELL	_OW)
HP495A	7.0-10.0GHz		195A	HP		00237	00086	II		Ou.	T OF SE		(SPARE)	
AUDIO AMP	AUDIO FREQ		N-200	RADIO SHACK		0438	NONE	III				NA		
AUDIO AMP	Audio Freq	IVIPA	\-200	RADIO SHACK	708	8545	00862	III				NA		
FIELD P			ANGE	M			lFR	SN		ASSET	C	AT .	CALIBRATION DU	
Re			1000MHz	HI-4		_	ADAY	90369		00031		!	OUT OF SERVIC	
GRE			1000MHz	HI-4			ADAY	97363		00136		1	03-DEC-2009	
BLU Reference Lase			1000MHz 000MHz	HI-4 FL7006 S			ADAY NR	95696 321700		01100 1252			OUT OF SERVIC 31-JAN-2010	
MICROWAVE SU			50MHz	HI-1			ADAY	0007546		1244			Calibrate Before U	
GAUSSMETER (z–1kHz	40			PRIS	114173		1305		i	02-MAY-2009	
					-		-						300	
SIGNAL GENE	EDATORS	Rano	25	MN		MFR		SN		ASSET		CAT	CALIBRATION D)
RED		0.09-2000		HP8648B		Agilen	ıt	3847U0		00366		<u> </u>	07-MAY-2009	
BLUE		0.1-1000		HP8648A		Agilen		3426A0		00034		1	01-OCT-2009	
GREEN		0.09-2000		HP8648B		Agilen		3623A0		00034		í	24-OCT-2009	
ORANG		0.1-1000		HP8648B		Agilen		3537A0		00025		i	12-JUN-2009	
Brown		0.01Hz-1		HP33120A	Agilent			US3601		1211		İ	OUT OF SERVICE	
WHITE		0.01Hz-1		HP33120A		Agilen		US3604		1219		I	22-MAY-2009	
		0.01Hz-1	5MHz	HP33120A		Agilen	ıt	SG4001		1232		1	17-DEC-2009	9
BLUE-WHITE		0.1Hz-13		HP3312A		Agilen		1432A0		00775		1	26-MAR-2009	
RFI-HIGH SWEEPER		0.01-20.0		HP83752A		Agilen		3610A0		00087		II	15-MAY-2009	
REFERENCE SWEEPER		0.01-26.5		HP8673D		Agilen		3146A0		1317		!	22-MAY-2009	
AM/FM STEREO SIG. GEN.		0.1-1701		LG3236		LEADE		36873		00959		1	To be determin	
IMPULSE GENERATOR 1-100Hz CIG-25 ELECTRO-METRICS 290 00942 I To be determine							iea							
				N 45 1	N 4	C7:					<u> </u>		D	
BULK INJECTION CLAMPS		RAN		MN	MFR	SN	ASSET	CAT						
GREEN (NEBS CRFI)		0.01-3		95236-1	ETS	50215	00118						& ORANGE AMP)	
GREEN (EU CRFI) RED (NEBS CRFI)		0.10-10		95236-1	ETS	50215	00118						& ORANGE AMP)	
HED (NEB	o URFI)	0.01-3	UIVITZ	95236-1	ETS	34026	1020	II		09-JUN-	บล (RFNE	, BLACK	& ORANGE AMP)	



RED (EU CRFI)			95236-1	ETS	34026	1020	II			CK & ORANGE AMP)
RED (RTCA/DO-160			95236-1	ETS	34026	1020	II 		10-JAN-2010	'
BLUE (RTCA/DO-16	OE) 2-450	MHZ	9142-1N	Solar	063824	1237	II		10-JAN-201	0 (RED)
ANCITA 24	15		McD		Λ.	DOET	CAT		CALIBRA	TION DUE
ANSI T1.31 SBC Noise CA			MFR C-S			285	CAT III	CAL		
SBC TRANSIENT			C-S			286 286				NOT REQUIRED RIFIED BEFORE USE
ODO TRANSIENT	OANI		0-3		1.	200		VVAVES	DHAFE VER	MIFIED BEFORE USE
OSCILLOSCO	PFS	MN]	Mr	=		SN	ASSET	Сат	CALIBRATION DUE
EMC 100MH		TDS 2		TEKTE			036986	1166	I	15-MAY-2009
ESD REFERENCE		TDS 6		TEKTE			3011287	RENTAL	i	07-MAY-2009
400MHz E*Sc		TDS 30		TEKTE	-		010074	1275	Ĺ	11-JUL-2009
PRODUCT SAFETY 1	100 MHz	TDS 3	340	TEKTE	RONIX	Е	3012357	00737	1	
TELECOM 100 I		5464	-	HP/Ac			36320452	00103	1	
DIFFERENTIAL P	-	422		PROBE	_		07-134	1296	!	29-SEP-2009
500MHz 10x Pi	-	P613		TEKTE			NA	1280	!	19-JUL-2009
500MHz 10x Pi Reference 500MHz		P613 P613		TEKTE			NA NA	1281 1282	-	19-JUL-2009 11-JUL-2009
REFERENCE 500MHZ		P613		TEKTF TEKTF			NA NA	1319	i i	11-JUL-2009 11-JUL-2009
500MHz 10x Pi		P613		TEKT			NA	1283	i	19-JUL-2009
REFERENCE HV 100	-	P601		TEKTE		Е	3056555	1277	i	11-JUL-2009
REFERENCE HV 100	-	P601		TEKTE			3056590	1278	Ĺ	11-JUL-2009
CDN NETWORKS	RANGE		MN	1	MFR	ASSET	Сат		CALIBRA	TION DUE
BLUE	0.10-100MHz		20A M-3		C-S	00806	Ш	24-JUN	-09 (BLUE, B	SLACK & ORANGE AMP)
RED	0.10-100MHz		15A M-3		C-S	00780	II.			SLACK & ORANGE AMP)
YELLOW-BLACK	0.10-100MHz		15A M-3		C-S	00784	II.		, ,	SLACK & ORANGE AMP)
GREEN	0.10-100MHz		30A M-3		C-S	00779	II.			SLACK & ORANGE AMP)
YELLOW Brown	0.10-100MHz 0.10-100MHz		30A M-5 M-3		C-S C-S	00804 1169	II II			5-AUG-2009 (BLE & ORNGE) BLACK & ORANGE AMP)
BROWN-WHITE	0.10-100MHz		M-3		C-S	1170	ii			BLACK & ORANGE AMP)
Brown-Black	0.10-100MHz	N	И-2 (DC)		C-S	1171	ii			SLACK & ORANGE AMP)
RED-BLACK	0.10-100MHz		Л-2 (DC)		C-S	1177	ii			SLACK & ORANGE AMP)
GREEN-WHITE	0.10-100MHz	N	Л-2 (DC)	(C-S	1259	II	24-JUN	-09 (BLUE, B	SLACK & ORANGE AMP)
YELLOW (RES)	0.10-100MHz	100	Ω RESISTOF		C-S	00810	II	24-JUN	-09 (BLUE, B	SLACK & ORANGE AMP)
GREEN (RES)	0.10-100MHz	100	Ω RESISTOR		C-S	1172	II	24-JUN		SLACK & ORANGE AMP)
ARTIFICIAL HAND	510Ω / 220PF		CS-AH		C-S	1262	II.			N-2009
ARTIFICIAL HAND	510Ω / 220PF		CS-AH		C-S	1263	II		26-JUI	N-2009
RMS VOLTMETERS	/CUPPENT CLA	MD	MN		Mnfr		SN	ASSET	Сат	CALIBRATION DUE
TRUE-RMS N		IVIF	79111		LUKE	7	1700298	00769	I	06-FEB-2009
TRUE RMS N	-		179		LUKE		9280616	1228	i	29-SEP-2009
TRUE-RMS N	-		177		LUKE	_	3390024	00973	i	22-MAR-2009
TRUE-RMS MULTIME	ETER (REFERENC	E)	177	F	LUKE	8	3390025	00974	1	11-MAR-2009
TRUE-RMS MULTI	METER (D RAND)		177	F	LUKE	9	1320460	1226	1	11-MAR-2009
TRUE-RMS N			177		LUKE		3430419	00975	- 1	31-MAR-2009
AC/DC CURF			A622		KTRONIX	080	D 6275Dv	1246	!	12-MAR-2009
CURRENT	T SHUNT		200A50M	v Si	MPSON		NA	1290	l l	25-AUG-2010
Down /Nove	Meters	A	ANI		MED		CNI	٨٥٥٢٣	CAT	CALIDDATION DUE
Power/Noise Power Me			MN 85B		MFR HP		SN 2445A11012	Asset 00773	Сат	CALIBRATION DUE 07-MAY-2009
POWER ME			35B 37B		HP HP		2912A01367	01099	I I	07-MAY-2009 06-MAY-2009
Power Set			81A		пг HP		2702A61351	01099	i	06-MAY-2009
Power Me			32A	В	SOONTON		11000	1260	i	29-AUG-2009
Power Ser			13-4E		SOONTON		34457	1261	İ	29-AUG-2009
PSOPHOME		24	129	Bru	EL & KJAEF		1237642	00585	П	23-FEB-2009
TRANSMISSION LINE T			35T		AMREL		18507030010		Ш	04-APR-2009
	TRANSMISSION LINE TESTER (DBRNC) THD, Power & Harmonic Analyzer		85T		AMREL		998658	00823	II.	04-APR-2009
THD, POWER &HARM CURRENT CLAMP FO			/IP PLUS 13-EL		ITROL ENER		15925 NA	00250 1293		04-SEP-2009 04-SEP-2009
GURRENT GLAMP FC	UN INAINOVIP	IVIIN	IJ-EL	ELCON	I RUL ENER	a r	INA	1293	<u> </u>	U4-3EF-2UU9
OVERVOLTAGE CH	IAMRERS	MN	MFF	₹		SN		ASSET	Сат	CALIBRATION DUE
72kW Power Fault S		OV1	C-S			N/A		00792	III	N/A
POWER FAULT SIM		OV2	C-S			N/A		00116	iii	N/A
DIPOLE TAPE ME	ASURES	1M	N		MFR		SN	ASSET	Сат	CALIBRATION DUE



26FT TARE #1 2338CME							
Surge Generators	26FT TAPE #1	2338CME	Lufkin	C3166-1	00776	Ш	22-MAR-2009
TRANSIENT WAVEFORM MONITOR	26FT TAPE #2	2338CME	Lufkin	C3166-2	00777	II	22-MAR-2009
TRANSIENT WAVEFORM MONITOR							
UNIVERSAL SURGE GENERATOR	Surge Generators	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
UNIVERSAL SURGE GENERATOR	TRANSIENT WAVEFORM MONITOR	TWM-5	CDI	003982	00323	Ш	03-JUN-2009
THREE PHASE COUPLING NWK	Universal Surge Generator	M5	CDI			Ш	CAL BEFORE USE
1.2x50U.S PLUIGIN MODULE			-		00325		
10x160US PLUGIN MODULE							
10x560US PLUGIN MODULE							
PSURGE CONTROLLER MODULE							
COUPLING/DECOUPLING MODULE PCD 900 HAEFELY 1492/13 00881 II 01-JUL-2009 HIGH VOLTAGE CAP NWK 5κ/DC, 18μF CS-HVCC C-S 01 00772 II 16-APR-2009 HIGH VOLTAGE CAP NWK 5κ/DC, 18μF CS-HVCC C-S NA 00084 II 01-JUL-2009 HIGH SULFAGE CAP NWK 5κ/DC, 18μF CS-HVCC C-S NA 00084 II CAL BEFORE USE 10x700US SURGE GENERATOR 2x10US C-S N/A 00846 II CAL BEFORE USE 10x700US SURGE GENERATOR 2x10US C-S N/A 00847 II CAL BEFORE USE 10x700US SURGE GENERATOR 10x700US C-S N/A 00847 II CAL BEFORE USE C-S 00720-605LU 1273 II 30-JUL-2009 C-S 00720-605LU 1273 II 30-JUL-2009 C-S 00720-605LU 1273 II 30-JUL-2009 C-S 00720-605LU 1274 II 10-FEB-2009 C-S 00623 II 27-FEB-2009 C-S 00623 II 27-FEB-2009 C-S 00623 II 27-FEB-2009 C-S 00623 II							
MPULSE MODULE							
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NEBS SURGE GENERATOR (LIMITED CAL)							
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	CONSUMABLES	SPEC.	MFR	STOCK/MN	ASSET	CAT	CALIBRATION DUE
NEBS CARBON BLOCK 3-MIL-GAP 1KV SURGE RELIABLE 3AB N/A III N/A							,
	NEBS CARBON BLOCK 3-1	MIL-GAP 1KV SURGE	RELIABLE	3AB	N/A	III	N/A

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



Measurement Uncertainty

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		N/A
	3.5% 8.2 x 10 ⁻⁸	1 x 10 ⁻⁷
Radio frequency		0.75dB
RF power, conducted Maximum frequency deviation:	0.7dB • 1.2%	
 Within 300Hz and 6kHz of audio frequency Within 6kHz and 25kHz of audio frequency 	• 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	2°9.0	1.0℃
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		

Conditions Of Testing

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

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

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



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

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

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