

Test Report

Report No J0378

> Client **Onset Computer Corporation**

> > 470 MacArthur Blvd. Bourne, MA 02532

Phone 508-743-3186

FRN 0009380064

Model 91-ZW-EM260

FCC ID **WXFMODULE** 7936A-MODULE IC

Equipment Type Digital Transmission System **Equipment Code** DTS

> Results As detailed within this report

Prepared by

Evan Gould - Compliance Engineer

Authorized by

Mairaj Hussain - EMC Supervisor

Issue Date

October 23, 2009

Conditions of Issue

This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 27 of this report.

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Summary

This test report supports an application for certification (limited modular approval) of a transmitter operating pursuant to 47 CFR 15.247 and RSS-210. The product is Onset's m/n: 91-ZW-EM260 radio module. It is a digitally modulated transmitter operating in the range 2405-2480MHz.

Test Methodology

Testing was performed according to ANSI C63.4-2003 and FCC's guidance document "New Guidance on Measurements for Digital Transmission Systems in Section 15.247". Radiated emissions were maximized by rotating the device around its vertical axis, as well as varying the test antenna's height and polarity. The module was tested while mounted on a specific host board, but there was no obstruction in the way of the radiating element. A condition of the limited modular approval is that the module shall always be integrated into host products so that it's orientation is the same as that tested.

Since this is a module which will be integrated into products powered from the AC public utility lines, AC line conducted emissions were measured on the AC side of the DC supply.

AC line conducted emissions was performed with a 50Ω / 50μ H LISN.



Product Tested - Configuration Documentation

Work Order	r: .10378				figuratio					
	: Onset Comp	uter Corporation	on							
Company Address										
	Bourne, MA (02532								
	t: Tom King									
Person Present	: Jacob Lacoui	rse								
		MN			PN			SN		
EUT	: 9	1-ZW-EM260			-		2	2423195(10	1)	
EUT Description	: Radio module	Э								
TX Frequencies	: 2405-2480MI	Hz								
Support Equipment:		MN						SN		
None										
EUT Ports:										
			No.					Max	In/Out	
Port Label	Port Type	No. of ports	Populated	Cable Type	Shielded	Ferrites	Length	Length	NEBS Type	Unpopulated Reaso
None										

Emission Bandwidth / 99% Occupied Bandwidth

LIMIT

"The minimum 6dB bandwidth shall be at least 500kHz." [15.247(a)(2)]

EQUIPMENT

BROWN SPECTRUM ANALYZER

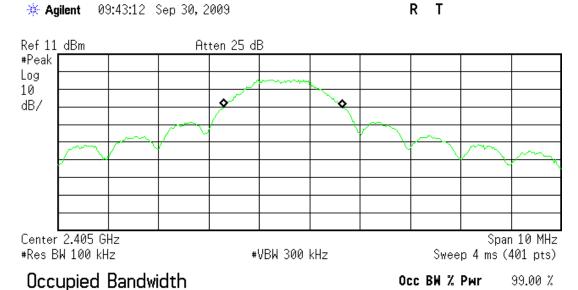
MEASUREMENTS

Channel	Frequency	6dB Emission Bandwidth
	(MHz)	(MHz)
11	2405	1.57
16	2430	1.65
26	2480	1.6

Testing performed by Evan Gould on 9/30/09.

PLOTS

Ch.11 – Emission Bandwidth



Transmit Freq Error -521.695 kHz x dB Bandwidth 1.569 MHz

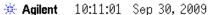
2.3626 MHz

C:temp.gif file saved

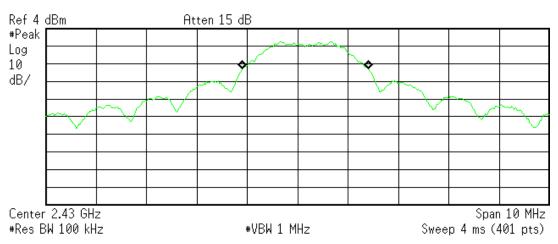
x dB

-6.00 dB

Ch.16 - Emission Bandwidth



R Τ



Occupied Bandwidth 2.4975 MHz

Occ BW % Pwr 99.00 %

x dB -6.00 dB

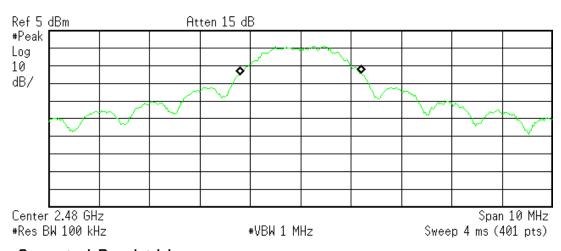
Transmit Freq Error 153.646 kHz x dB Bandwidth 1.652 MHz

C:temp.gif file saved

Ch.25 - Emission Bandwidth

* Agilent 10:32:25 Sep 30, 2009

Τ R



Occupied Bandwidth 2.4186 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB

Transmit Freq Error 131.348 Hz x dB Bandwidth 1.600 MHz

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)(3)]

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

METHOD

Using "Power Output Option 1" from FCC's guidance document.

EQUIPMENT

BROWN SPECTRUM ANALYZER DONGLE (1DB ATTENUATION)

MEASUREMENTS

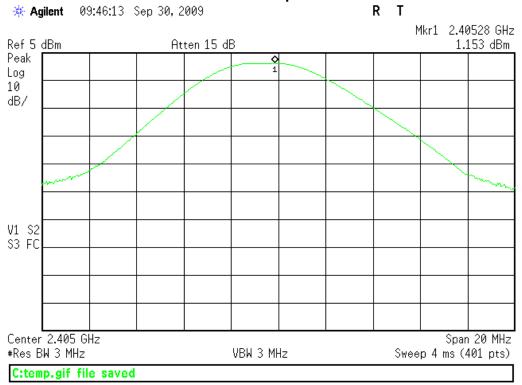
Channel	Measurement	Limit	Margin	Result
Frequency				
(MHz)	(dBm)	(dBm)	(dB)	(P/F)
2405	2.2	30	-27.8	Р
2430	2.1	30	-27.9	Р
2480	1.9	30	-28.1	Р

Testing performed by Evan Gould on 9/30/09.

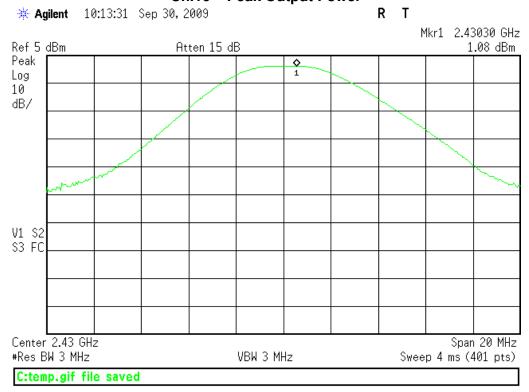


PLOTS

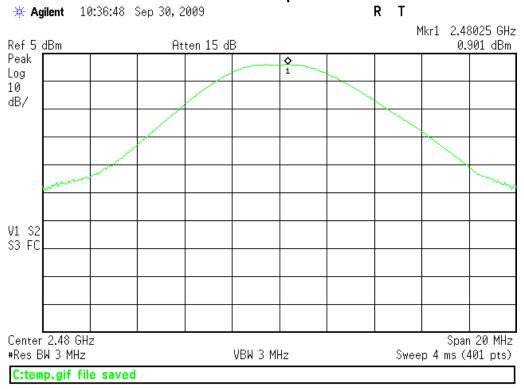




Ch.16 - Peak Output Power



Ch.26 - Peak Output Power



Power Spectral Density

LIMIT

"...the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission." [15.247(e)]

EQUIPMENT

BROWN SPECTRUM ANALYZER DONGLE (1DB ATTENUATION)

METHOD

Using "PSD Option 1" from FCC's guidance document.

MEASUREMENTS

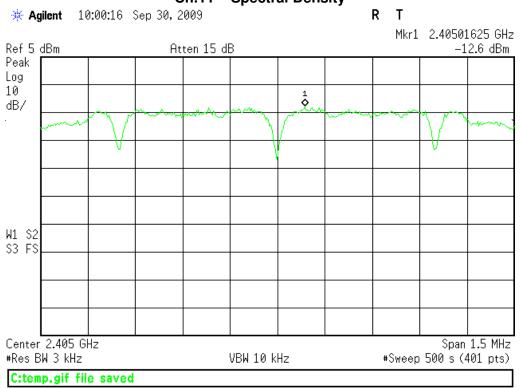
Channel Frequency	Measurement	Limit	Margin	Result
(MHz)	(dBm)	(dBm)	(dB)	(P/F)
2405	-11.6	8.0	-19.6	Р
2430	-11.8	8.0	-19.8	Р
2480	-12.3	8.0	-20.3	Р

Testing performed by Evan Gould on 9/30/09.

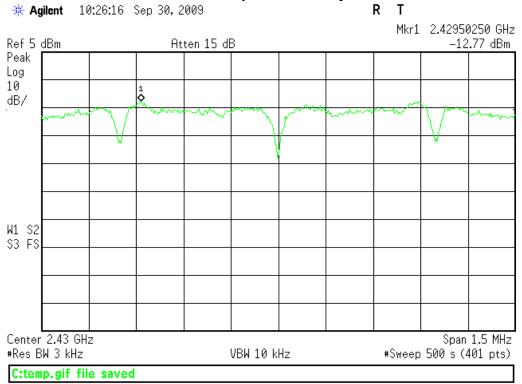


PLOTS

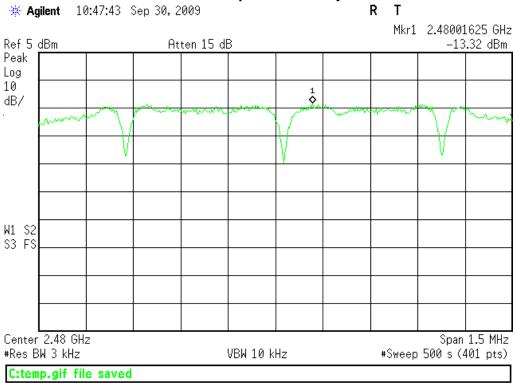




Ch.16 - Spectral Density



Ch.26 - Spectral Density



Out-of-band Emissions

LIMIT

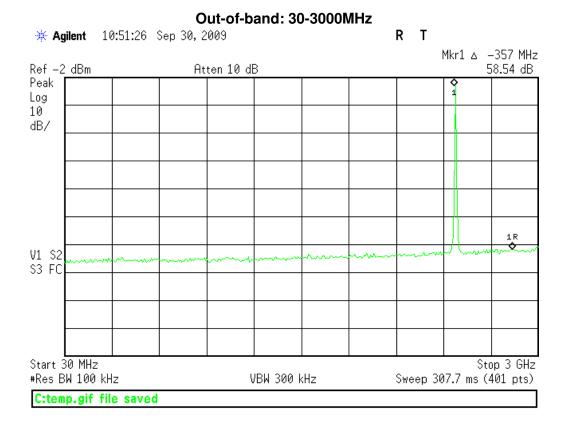
"In any 100kHz bandwidth outside the frequency band in which the...intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power..."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

EQUIPMENT

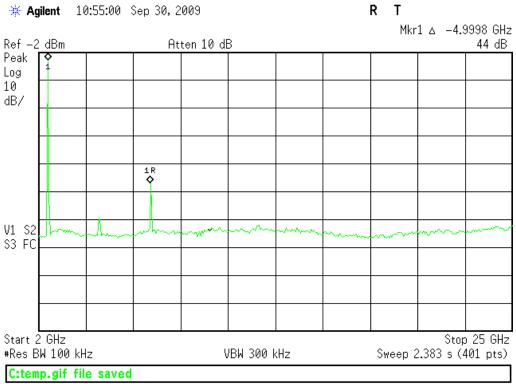
BROWN SPECTRUM ANALYZER DONGLE (1DB ATTENUATION)

PLOTS

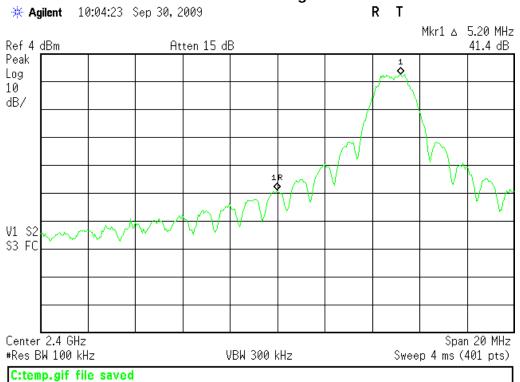
No emissions found within 20dB of the fundamental. See plots below.







Low 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

	Emissio	ns Tabl												
	29-Sep-09 Evan Gould			Company: Onset EUT Desc: Radio module					Work Order: J0378 EUT Operating Voltage/Frequency: 6VDC					
Temp:	24.3℃	F		Humidity:				Pressure: 991mBar						
Frequency Range: 30MHz - 5GHz Measurement Distance: 3 m Notes: worst case duty cycle = 27ms/100ms; Duty Cycle Factor = -11.3dB														
Antenna		Peak	Average	Preamp	Antenna	Cable	Adjusted	Adjusted	FCC Clas	ss B High Frequen	cy - Peak	FCC Class	B High Frequency	- Average
Polarization (H / V)	Frequency (MHz)	Reading (dBµV)	Reading (dBµV)	Factor (dB)	Factor (dB/m)	Factor (dB)	Peak Reading (dBµV/m)	Avg Reading (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)
Channel 11 V Channel 16	4810.7	49.4	38.1	20.8	32.5	4.0	65.1	53.8	74.0	-8.9	Pass	54.0	-0.2	Pass
V Channel 26	4860.9	45.8	34.5	20.7	32.7	4.1	61.9	50.6	74.0	-12.1	Pass	54.0	-3.4	Pass
V	4958.9	46.3	35.0	20.9	33.0	4.1	62.5	51.2	74.0	-11.5	Pass	54.0	-2.8	Pass
Tab	le Result:		Pass	by	-0.2	dB						Worst Freq:	4810.7	MHz
	EMI Chamber Rental SA#1	2			Asset #150 Asset #151 Blue		Analyzer:	SA #1328		Antenna:	Asset #1508 Orange Horn Red-White			

Date:	29-Sep-09			Company:	Onset								Work Order	: J0378
Engineer:	Evan Gould			EUT Desc:	Radio Mod	ule	EUT Operating Voltage/Frequency: 6VDC						: 6VDC	
Temp:	24.3℃			Humidity:	42%		Pressure: 991mBar							
		Freque	ency Range:	5 - 25GHz				Measurement Distance: 1 m						
Notes: worst case duty cycle = 27ms/100ms														
Antenna		Peak	Average	Preamp	Antenna	Cable	Adjusted	Adjusted	FCC Cla	ss B High Frequen	cv - Peak	FCC Class	B High Frequence	/ - 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)
Channel 14 H	7258.4	51.4	40.1	20.6	37.2	5.0	73.0	61.7	83.5	-10.5	Pass	63.5	-1.8	Pass
Channel 16 H Channel 26	7291.3	51.5	40.2	20.5	37.3	4.9	73.2	61.9	83.5	-10.3	Pass	63.5	-1.6	Pass
Н	7438.2	50.0	38.7	20.7	37.3	5.0	71.6	60.3	83.5	-11.9	Pass	63.5	-3.2	Pass
Tab	le Result:		Pass	by	-1.6	dB						Worst Freq:	7291.3	B MHz

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	ea Emi	ssions							
Date:	30-Sep-09		(company:	Onset				Work Order:	J0378
Engineer:	Evan Gould		E	UT Desc:	RF Module	Test Site: CEMI-3				
Temp:	Temp: 21.2℃			Humidity:	43%	Pressure: 998mBar				
Notes:	Notes:									
Measure	ment Device:	Asset #1494	LISN	SN EUT Operating Voltage/Frequency: 120V 60Hz						
Range:	Range: 0.15-30MHz Spectrum Analyzer: Yellow									
					Impedance	FCC/0	CISPR B	FCC/0		
	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)
0.18	38.6	42.3	15.3	16.6	20.1	64.5	-2.1	54.5	-17.8	Pass
0.28	28.2	30.8	6.1	15.5	20.1	60.8	-9.9	50.8	-15.2	Pass
0.37	16.7	27.0	7.9	7.1	20.1	58.5	-11.4	48.5	-20.5	Pass
0.42	27.5	22.0	9.9	5.2	20.0	57.4	-9.9	47.4	-17.5	Pass
0.51	13.5	11.7	0.3	0.0	20.0	56.0	-22.5	46.0	-25.7	Pass
0.60	14.8	14.1	2.2	2.4	20.0	56.0	-21.2	46.0	-23.6	Pass
Toh	le Result:	Pass	by	-2.10	10		1//	rst Freq:	0.18	

Receiver Spurious Emissions

LIMITS

"...no spurious output signals appearing at the antenna terminals shall exceed 2 nanowatts per any 4kHz spurious frequency in the band 30-1000MHz, or 5 nanowatts above 1GHz." [RSS-Gen Issue 2 §4.10]

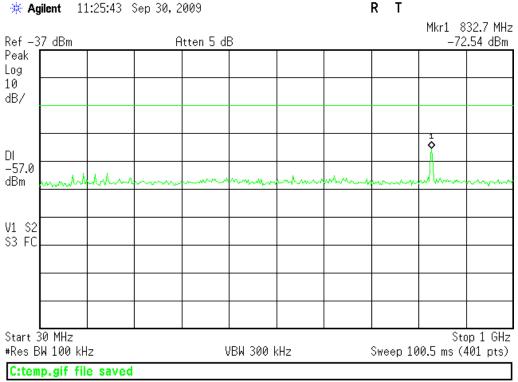
 $Limit = 10 \times \log(.000002mW) = -56.9dBm$ $Limit = 10 \times \log(.000005mW) = -53.0dBm$

EQUIPMENT

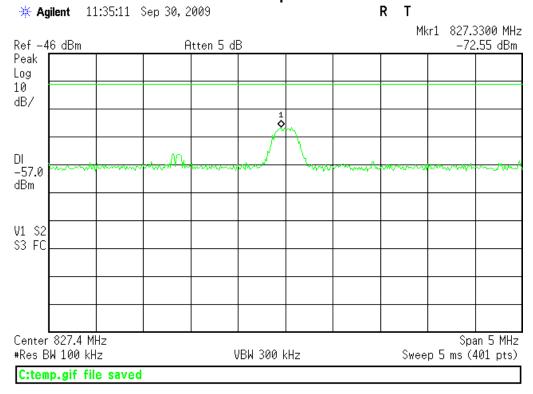
BROWN SPECTRUM ANALYZER DONGLE (1DB ATTENUATION)

MEASUREMENTS

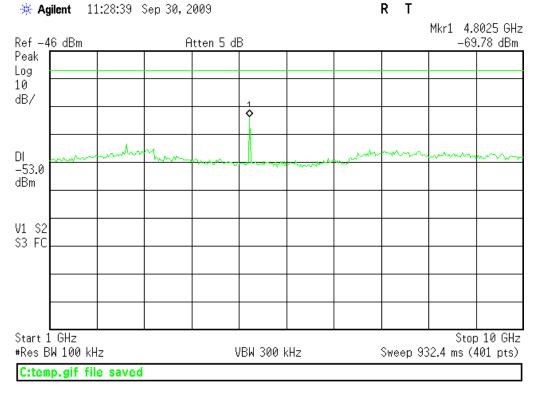
30-1000MHz Receiver Spurious Emissions



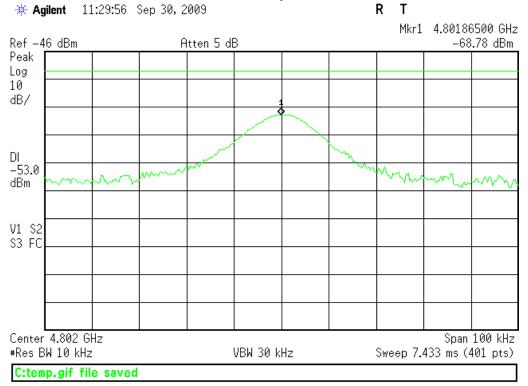




1-10GHz Receiver Spurious Emissions



4801.9MHz Receiver Spurious Emission



Test Equipment Used

Specifica Analyzens /					REV. 30-SEP-	2009	
SPECTRUM ANALYZERS / RECEIVERS /PRESELECTORS	RANGE	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
RED	9kHz-1.8GHz	8591E	Agilent	3441A03559	00024	1	03-MAR-2010
WHITE	9kHz-22GHz	8593E	Agilent	3547U01252	00022	1	10-DEC-2009
BLUE	9kHz-1.8GHz	8591E	Agilent	3223A00227	00070	1	13-MAY-2010
YELLOW	9kHz-2.9GHz		Agilent	3523A01958	00100	1	19-JAN-2010
GREEN	9kHz-26.5GHz		Agilent	3829A03618	00143	1	11-JUN-2010
BLACK	9kHz-12.8GHz			3710A00944	00337	1	18-SEP-2010
GOLD	100Hz-26.5 GHz			MY45113816	1284	1	14-AUG-2010
SA EMI CHAMBER (1327)	9kHz-13.2 GHz			MY45103416	1327	1	06-FEB-2010
SA EMI CHAMBER (1328)	9kHz-13.2 GHz		•	MY44210241	1328	1	06-FEB-2010
REFERENCE EMI TEST RECEIVER	20-1000MHz	ESVS30	Ř&S		01098	1	Out of Cal
RENTAL SA #1 (BROWN)	9kHz-26.5GHz			SG44210511	1510	1	10-FEB-2010
RENTAL SA #5	9kHz-26.5 GHz		•	MY44220066	1491	1	02-FEB-2010
EMI CHAMBER PRESELECTOR	9kHz-1.8GHz		ectro-Metrics	539	1511	1	27-FEB-2010
EMI CHAMBER PRESELECTOR	9kHz-1.8GHz		ectro-Metrics	540	1512	1	27-FEB-2010
						-	
LISNS/MEASUREMENT	RANGE	MN	MFR	SN	ASSET	Сат	CALIBRATION DUI
PROBES	Out la FOMULA	0010 50 5 01 510	05:15	050040	00750		40 11111 0040
RED LISN	9kHz-50MHz	8012-50-R-24-BNC		956348	00753	l i	19-JUN-2010
BLUE LISN (DC)	50kHz-50MHz	8012-50-R-24-BNC		956349	00752	l i	07-AUG-2010
YELLOW-BLACK LISN	30kHz-50MHz	8012-50-R-24-BNC		0411657	00248	!	27-MAY-2010
ORANGE LISN	9KHz-50MHz	8012-50-R-24-BNC		903707	00754	l	27-MAY-2010
GOLD LISN (DC)	9ĸHz-50MHz	8012-50-R-24-BNC		984734	00247	!	23-JUL-2010
BROWN LISN	9kHz-50MHz	8012-50-R-24-BNC		0411656	00986	!	23-JUL-2010
GREEN LISN	9ĸHz-50MHz	8012-50-R-24-BNC		0411658	00987	!	11-FEB-2010
YELLOW LISN	9kHz-50MHz	8012-50-R-24-BNC		984735	1080	!	15-DEC-2009
WHITE-BLACK LISN	10kHz-30MHz	8610-50-TS-100-N		972019	00678	!	27-MAY-2010
BLACK LISN	10kHz-30MHz	8610-50-TS-100-N		972017	00675	ļ	19-JUN-2010
RED-BLACK LISN	10kHz-30MHz	8610-50-TS-100-N		972016	00677	l	22-JUN-2010
BLUE-BLACK LISN	10kHz-30MHz	8610-50-TS-100-N		972018	00676	ļ	27-MAY-2010
230VAC LISN ASSET 1492	10kHz-50MHz	9252-50-R-24-BNC		084713	1492	l	23-MAR-2010
230VAC LISN ASSET 1493	10kHz-50MHz	9252-50-R-24-BNC		084714	1493	ļ	23-MAR-2010
230VAC LISN ASSET 1494	10kHz-50MHz	9252-50-R-24-BNC		084715	1494	!	23-MAR-2010
230VAC LISN ASSET 1495	10kHz-50MHz	9252-50-R-24-BNC		084716	1495	ļ	23-MAR-2010
BLUE MONITORING PROBE	10кHz -150MHz	91550-2	TEGAM	12350	00807	!	27-MAY-2010
YELLOW MONITORING PROBE	10кHz -150MHz	91550-2	_ETS	50972	00493	ļ	29-JAN-2010
BROWN MONITORING PROBE	10кHz -250MHz	F-33-1	FISCHER	425	1110	!	23-JAN-2010
WHITE MONITORING PROBE	10кHz -250MHz	CSP-8423-1	SCHAFFNER		1112	ļ	23-JAN-2010
GREEN CURRENT TRANSFORMER	40Hz-20MHz	150	PEARSON		00793	!	06-MAY-2011
SURGE CURRENT PROBE	NA	CM-1-L	ION PHYSICS		1265	l	08-OCT-2010
SURGE CURRENT PROBE	NA	CM-1-L	ION PHYSICS		1276	 	06-MAY-2011
BLUE CISPR LINE PROBE	10kHz-50MHz	N/A	C-S	N/A	00805	II.	04-SEP-2011
BLACK CISPR LINE PROBE	10kHz-50MHz	N/A	C-S	N/A	1254	II.	04-SEP-2011
CISPR TELCO VOLTAGE PROBE	10kHz-30MHz	CS A/C-10	_ C-S	CS01	00296	II.	29-APR-2010
CISPR 22 2 PAIR TELCO ISN	9kHz-30MHz	FCC-TLISN-T4	FISCHER	20115	00746	!	14-JAN-2011
CISPR 22 4 PAIR TELCO ISN	150kHz-30MHz	FCC-TLISN-T8-02-09	FISCHER	091109	1524	<u> </u>	28-JUL-2011
RADIATED EMISSIONS SI	TES	FCC CODE	IC CODE	VCCI Cor	DE CAT	C	ALIBRATION DUE
SITE F OATS		93448	2762B-2		II		27-JUL-2010
SITE T OATS		93448	2762B-3	R-905	II		06-DEC-2009
SITE A OATS		93448	2762B-5	R-903	II		04-DEC-2009
SITE M OATS		93448	2762B-6	R-904	II		25-JUN-2010
SITE J OATS		93448	2762B-4	R-2377	II		06-MAY-2010
1DCC-OATS-3M-I		719150	2762A-8		II		07-JUL-2011
EMI CHARRED 1		719150	2762A-6	R-3032			15-FEB-2011
EMI CHAMBER 1		719150	2762A-7	R-3033	I		15-FEB-2011
EMI CHAMBER 1 EMI CHAMBER 2		719130					
EMI CHAMBER 2	s / Telco)		VCCI Con	E CAT	CAL IRRAT	TION DUF	_
EMI CHAMBER 2 CONDUCTED TEST SITES (MAIN:	s/Telco)	FCC CODE	VCCI COD		CALIBRAT		_
EMI CHAMBER 2 CONDUCTED TEST SITES (MAIN: EMI 1	s / Telco)	FCC CODE 93448	C-1801, T-2	68 III	N	A	_
EMI CHAMBER 2 CONDUCTED TEST SITES (MAIN: EMI 1 EMI 2	s/Telco)	FCC CODE 93448 93448	C-1801, T-2 C-1802, T-2	168 III 169 III	N N	A A	_
EMI CHAMBER 2 CONDUCTED TEST SITES (MAIN: EMI 1 EMI 2 EMI 3	s/Telco)	FCC CODE 93448 93448 93448	C-1801, T-2 C-1802, T-2 C-1803, T-2	68 III 69 III 70 III	N N N	A A A	_
CONDUCTED TEST SITES (MAIN: EMI 1 EMI 2	s / Telco)	FCC CODE 93448 93448	C-1801, T-2 C-1802, T-2	68 III 69 III 70 III 91 III	N N	A A A	



CEMI 2	719150	C-3361, T-1576	III	NA
CEMI 3	719150	C-3362, T-1577	III	NA
CEMI 4	719150	C-3363, T-1578	III	NA
CEMI 5	719150	C-3364, T-1579	III	NA
CEMI 6	719150	C-3365, T-1580	Ш	NA

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-NOV-2009
MIXER / HORN	26.5-40 GHz	11970A/28-442-6	HP/ATM	3003A07825/A046903-01	1086	I	28-JUL-2010
MIXER / HORN	40-60 GHz	M19HW/A	OML	U30110-1	00821	I	17-AUG-2011
MIXER	33-50 GHz	11970Q	HP	3003A03155	00104	I	28-NOV-2009
MIXER / HORN	50-75 GHz	11970V /QWH-VPRROO	HP/QuINSTAR	2521A01197/8794001	1179	I	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	I	17-AUG-2011
Mixer / Horn	90-140 GHz	MO8HW/A	OML	F21206-1	00811	1	17-AUG-2011
MIXER / HORN	140-220 GHz	MO5HW/A	OML	G21206-1	00812	I	17-AUG-2011
DIPLEXER	40-220 GHz	DPL.26	OML	N/A	00813	- 1	17-AUG-2011

Absorbing Clamps	Range	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
FISCHER CLAMP	30-1000MHz	F-201-23MM	FISCHER	10	00081	1	29-JAN-2010

HARMONIC & FLICKER ANALYZER	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
5001IX AC POWER SYSTEM	500lix	CI	HK53687	00376	II	08-SEP-2010
5001IX AC POWER SYSTEM	500lix	CI	HK52679	RENTAL	II	04-JUN-2010
10001IX POWER SYSTEM	(2) 5001IX	CI	HK53687 with HK53688	1521	II	08-SEP-2010

PREAMPS / COUPLERS ATTENUATORS / FILTERS	RANGE	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
RED	0.009-2000MHz	ZFL-1000-LN	CS	N/A	00798	П	07-APR-2010
BLUE	0.009-2000MHz	ZFL-1000-LN	CS	N/A	00759	II	07-APR-2010
BLUE-BLACK	0.009-2000MHz	ZFL-1000-LN	CS	N/A	00800	II	08-APR-2010
GREEN	0.009-2000MHz	ZFL-1000-LN	CS	N/A	00802	Ш	07-APR-2010
BLACK	0.009-2000MHz	ZFL-1000-LN	CS	N/A	00799	Ш	07-JAN-2010
ORANGE	0.009-2000MHz	ZFL-1000-LN	CS	N/A	00765	Ш	19-DEC-2009
RED-WHITE	0.009-2000MHz	ZFL-1000-LN	CS	N/A	1258	Ш	07-APR-2010
WHITE	1-18GHz	SMC-12A	CS	426643	00760	Ш	OUT OF SERVICE
Brown (OLD)	1-20GHz	PM2-38-218-4R5-17-15-SFF	CS	PL1655	1132	Ш	OUT OF SERVICE
Brown	1-18GHz	CS	CS	N/A	1523	Ш	17-JUL-2010
1517 HF PREAMP	1-18GHz	CS	CS	N/A	1517	Ш	29-MAY-2010
Red-Green	1-20GHz	PM2-38-218-4R5-17-15-SFF	CS	N/A	1256	Ш	18-AUG-2009
RED-BLUE	1-20GHz	PE2-38-218-4R5-17-15-SFF	CS	NA	1257	Ш	08-MAY-2010
HF (YELLOW)	18-26.5GHz	AFS4-18002650-60-8P-4	CS	467559	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	11SL10-4100/X4400-O/O	K&L	4	00816	Ш	08-JAN-2010
HIGH PASS FILTER	0.03-6.5 GHz	11SH10-1000/T3000-0/0	K&L	1	1310	Ш	08-JAN-2010
HIGH PASS FILTER	0.03-14.5 GHz	11SH10-3000/T9000-0/0	K&L	1	1311	Ш	08-JAN-2010
HIGH PASS FILTER	0.03-8 GHz	VHP-19	MINI-CIRCUITS	NA	1287	Ш	08-JAN-2010
HIGH PASS FILTER	0.03-9 GHz	VHP-16	MINI-CIRCUITS	NA	1288	II	08-JAN-2010
HF 20DB 50W ATTENUATOR	0.009-18 GHz	PE 7019-20	PASTERNACK	01	00791	Ш	08-MAY-2011
HF 30DB 50W ATTENUATOR	0.009-18 GHz	PE 7019-30	PASTERNACK	02	1168	II	08-MAY-2011
HF 40dB 50W ATTENUATOR	0.009-18 GHz	PE 7017-40	PASTERNACK	NA	1513	Ш	08-MAY-2011
40dB 100W ATTENUATOR	0.09-2000MHz	BW-40N100W+	MINI-CIRCUITS	V N014900638	1231	II	08-JAN-2010
RFI-Low 130 KHz LPF	10-100kHz Pass	130 kHz LPF	Kiwa	NA	1235	Ш	08-MAY-2011
50W HF DIRECT. COUPLER	1-20GHz	DC7420	AR	0325960	1307	Ш	06-NOV-2009
500W DIRECT. COUPLER	0.009-2000MHz	C6277-10	WERLATONE	41911	1264	Ш	03-DEC-2009
200W DIRECT. COUPLER	0.009-2000MHz	C5571-10	WERLATONE	23098	1185	II	03-DEC-2009

A.,==	RANGE	MN	MFR	SN	ASSET	0	CALIBRATION DUE
ANTENNAS	RANGE	IVIIN	IVIFR	SIN	ASSET	Сат	CALIBRATION DUE
GREEN BILOG	30-2000MHz	CBL6112B	CHASE	2742	00620	1	17-DEC-2010
GREEN-BLACK BILOG	30-2000MHz	CBL6112B	CHASE	2412	00127	1	OUT OF SERVICE
GREEN-RED BILOG	30-2000MHz	CBL6112B	CHASE	2435	00990	- 1	22-APR-2010
BLUE BILOG	30-1000MHz	3143	EMCO	1271	00803	II	OUT OF CAL
GRAY BILOG	20-2000MHz	3141	EMCO	9703-1038	00066	П	20-MAR-2010
YELLOW-BLACK BILOG	20-2000MHz	CBL6140A	CHASE	1112	00126	П	OUT OF CAL
RED-WHITE BILOG	30-2000MHz	JB1	SUNOL	A091604-1	01105	1	17 DEC-2010
RED-BLACK BILOG	30-2000MHz	JB1	SUNOL	A091604-2	01106	1	28-OCT-2010

RED-BROWN	Bilog	30-2000MHz	JB1	SUNOL	A00324	106 12	18	T		11-A	UG-2010
YELLOW HO		1-18GHz	3115	EMCO			037	İ			1AY-2011
BLACK HO		1-18GHz	3115	EMCO				i	06-JUL-2011		
ORANGE HO		1-18GHz	3115	EMCO			390	i			UN-2011
RED HOR		1-10GHz	3115	EMCO		REN		21	21-APR-10(NEBS) / 19-MAY-10 (EU RF		
HF (WHITE) H		18-26.5GHz	801-WLM					ï	CAL /VERIFY BEFORE USE		
SMALL LO		10×20.3GHZ	PLA-130/		1024		755	i	OA		IAR-2010
LARGE LO	-	20Hz-5MHz	6511	EMCO				i			EB-2010
RENTAL 6509	-		6509	EMCO			-	1			
		1kHz-30MHz								-	EB-2010
ACTIVE MONO		30Hz-30MHz	3301B	EMCO			068	II			UN-2010
INDUCTION (50-60Hz	1000-4-8		N/A			II			IAY-2010
INDUCTION (50-60Hz	1000-4-8		N/A		14	II.			IAY-2010
ADJUSTABLE [30-1000MHz	3121C	EMCO			757	!			EC-2010
ADJUSTABLE D	-	30-1000MHz	3121C	EMCO			756	1			EC-2010
RE101 LOOP S		30Hz-100kHz			N/A		318	II			BEFORE USE
RS101 RADIATIN		30Hz-100kHz			N/A		319	II			BEFORE USE
RS101 LOOP S		30Hz-100kHz			N/A		320	II	'		BEFORE USE
EMI CHAMBER	BILOG 2	26MHz-6GHz		ETS	001020	060 15	03	I		17-M	IAR-2011
EMI CHAMBER	BILOG 2	26MHz-6GHz	3142D	ETS	001020)52 15	04	I		17-M	IAR-2011
EF			MN	N	/IFR	5	SN	ASS	SET	Сат	CALIBRATION D
CAS 3025 VERIFICATION A		RS IN	A 265A/266	Sch	AFFNER	20	096	009	947	II	31-JUL-2010
EFT DIRECT C			N/A	(C-S	()1	007	794	Ш	03-OCT-2009
Modul	A6150	M	ODULA6150	TE	SEQ	34	525	12	68	1	24-NOV-2009
RED BES	TEMC-2		711-1100	Sch	AFFNER	200122	2-07480	C 006	323	1	04-SEP-2010
EMCPRO			CPRO PLUS		YTEK		1212	REN		İ	27-JUL-2010
ESD GENE	RATORS		MN	Mı	FR	SN	As	SET	Сат	(CALIBRATION DUE
GREE		N	ISG435	SCHAI		000839		763	1		18-DEC-2009
RED			ISG435	SCHAI		001625		762	i		27-MAR-2010
YELLO		•	930D	E1		201		673	i		27-SEP-2009
7 2 2 2 2			0002				- 00	0,0			27 021 2000
DIDE AND	D INTERRUI	рте	MN	MFR							
DIPS AIN						CNI		A CCET	$C_{\Lambda T}$	CAL	IDDATION DUE
		-13				SN		ASSET	Сат		LIBRATION DUE
_	DULA6150		MODULA6150	TESEC		34525		1268	CAT	24	4-NOV-2009
MOI INA 6502 AUTOM	DULA6150							1268 1269	CAT I I	1:	4-NOV-2009 3-FEB-2010
INA 6502 AUTOM	DULA6150	NSFORMER	MODULA6150	TESEC		34525		1268	CAT I I	1:	4-NOV-2009
INA 6502 AUTOM RED E	DULA6150 ATIC STEPTRA	NSFORMER	MODULA6150 INA 6502	TESEC TESEQ SCHAFFI	IER 20	34525 105		1268 1269	CAT I I II	1: 04	4-NOV-2009 3-FEB-2010
INA 6502 AUTOM RED E ECC	DULA6150 ATIC STEPTRA BESTEMC-2	NSFORMER	MODULA6150 INA 6502 711-1100	TESEC TESEC SCHAFFN 4 HAEFEI	NER 20	34525 105 00122-074S0		1268 1269 00623	 	24 13 04 OU	4-NOV-2009 3-FEB-2010 4-SEP-2010
INA 6502 AUTOM RED E ECC	DULA6150 ATIC STEPTRA BESTEMC-2 DMPACT4	NSFORMER	MODULA6150 INA 6502 711-1100 ECOMPACT	TESEC TESEC SCHAFFN 4 HAEFEI	NER 20	34525 105 0122-07480 155858 0811212		1268 1269 00623 RENTAL	 	24 13 04 OU	4-NOV-2009 3-FEB-2010 4-SEP-2010 JT OF SERVICE
INA 6502 AUTOM RED E ECC EMCI	DULA6150 ATIC STEPTRA BESTEMC-2 DMPACT4 PRO PLUS DISTRIPLINE	INSFORMER	MODULA6150 INA 6502 711-1100 ECOMPACT EMCPRO PLU	TESEC TESEC SCHAFFI 4 HAEFEI S KEYTE	NER 20 LY K	34525 105 00122-074S0 155858 0811212	Asse	1268 1269 00623 RENTAL RENTAL	 	24 13 04 OU 2	4-NOV-2009 3-FEB-2010 4-SEP-2010 IT OF SERVICE 18-JUL-2010
INA 6502 AUTOM. RED E ECC EMCI	DULA6150 ATIC STEPTRA BESTEMC-2 DMPACT4 PRO PLUS D STRIPLINE	INSFORMER	MODULA6150 INA 6502 711-1100 ECOMPACT EMCPRO PLU	TESEC TESEC SCHAFFI 4 HAEFEI S KEYTE	NER 20	34525 105 00122-07480 155858 0811212 SN N/A	Asse 0079	1268 1269 00623 RENTAL RENTAL	 	24 13 04 OU 2 CALIBRA 08-AF	4-NOV-2009 3-FEB-2010 4-SEP-2010 IT OF SERVICE 8-JUL-2010 ATION DUE PR-2010
INA 6502 AUTOM. RED E ECC EMCI CHAMBERS AND RFI CHAM RFI CHAM	DULA6150 ATIC STEPTRA BESTEMC-2 DMPACT4 PRO PLUS D STRIPLINE IBER 1 IBER 2	NSFORMER 3 ME	MODULA6150 INA 6502 711-1100 ECOMPACT EMCPRO PLU	TESEC TESEC SCHAFFI 4 HAEFEI S KEYTE	MFR JASHIELD	34525 105 10122-07480 155858 0811212 SN N/A 13329	Asse 0079 0079	1268 1269 00623 RENTAL RENTAL 7 II 5 II	 	24 13 04 OU 2 CALIBRA 08-AF 05-JA	4-NOV-2009 3-FEB-2010 4-SEP-2010 JT OF SERVICE 8-JUL-2010 ATION DUE PR-2010 AN-2010
INA 6502 AUTOM. RED E ECC EMCI CHAMBERS AND RFI CHAM RFI CHAM RFI 3 STR	DULA6150 ATIC STEPTRA BESTEMC-2 DMPACT4 PRO PLUS D STRIPLINE IBER 1 IBER 2 RIPLINE	NSFORMER 3 ME	MODULA6150 INA 6502 711-1100 ECOMPACT EMCPRO PLU MN TER COMPACT SHIELDING SYST N/A	TESEC TESEC SCHAFFI 4 HAEFEI S KEYTE PAN EM LIP	MFR MASHIELD MOGREN C-S	34525 105 00122-074S0 155858 0811212 SN N/A 13329 N/A	Asse 0079 0079 0079	1268 1269 00623 RENTAL RENTAL 7 II 5 II 6 III	 	CALIBRA 08-AF 05-JA FEEDBA	4-NOV-2009 3-FEB-2010 4-SEP-2010 UT OF SERVICE 8-JUL-2010 ATION DUE PR-2010 AN-2010 ACK ONLY
INA 6502 AUTOM. RED E ECC EMCI CHAMBERS AND RFI CHAM RFI CHAM	DULA6150 ATIC STEPTRA BESTEMC-2 DMPACT4 PRO PLUS D STRIPLINE IBER 1 IBER 2 RIPLINE	3 ME 04' x 07'	MODULA6150 INA 6502 711-1100 ECOMPACT EMCPRO PLU MN TER COMPACT SHIELDING SYST N/A ECL5	TESEC TESEC SCHAFFI 4 HAEFEI S KEYTE PAN EM LIN	MFR IASHIELD IDGREN C-S A-A INC.	34525 105 10122-07480 155858 0811212 SN N/A 13329	ASSE 0079 0079 0079 0002	1268 1269 00623 RENTAL RENTAL T CA 7 II 5 II 6 III 9 I	 	24 1: 0- OU 2 CALIBRA 08-AF 05-JA FEEDBA 23-AF	4-NOV-2009 3-FEB-2010 4-SEP-2010 UT OF SERVICE 8-JUL-2010 ATION DUE PR-2010 AN-2010 ACK ONLY PR-2010
INA 6502 AUTOM. RED E ECC EMCI CHAMBERS AND RFI CHAM RFI CHAM RFI 3 STR	DULA6150 ATIC STEPTRA BESTEMC-2 DMPACT4 PRO PLUS D STRIPLINE IBER 1 IBER 2 RIPLINE TAL (SAFETY)	3 ME 04' x 07'	MODULA6150 INA 6502 711-1100 ECOMPACT EMCPRO PLU MN TER COMPACT SHIELDING SYST N/A	TESEC TESEC SCHAFFI 4 HAEFEI S KEYTE PAN EM LIN	MFR MASHIELD MOGREN C-S	34525 105 00122-074S0 155858 0811212 SN N/A 13329 N/A	Asse 0079 0079 0079	1268 1269 00623 RENTAL RENTAL T CA 7 II 5 II 6 III 9 I	 	24 1: 0- OU 2 CALIBRA 08-AF 05-JA FEEDBA 23-AF	4-NOV-2009 3-FEB-2010 4-SEP-2010 UT OF SERVICE 8-JUL-2010 ATION DUE PR-2010 AN-2010 ACK ONLY
INA 6502 AUTOM. RED E ECC EMCI CHAMBERS AND RFI CHAM RFI CHAM RFI 3 STR ENVIRONMENT ENVIRONMENT	DULA6150 ATIC STEPTRA BESTEMC-2 DMPACT4 PRO PLUS D STRIPLINE IBER 1 IBER 2 RIPLINE TAL (SAFETY) TAL (SAFETY)	3 ME 04' x 07'	MODULA6150 INA 6502 711-1100 ECOMPACT EMCPRO PLU MN TER COMPACT SHIELDING SYST N/A ECL5 GGTH-31S	TESEC TESEC SCHAFFI 4 HAEFEI S KEYTE PAN EM LIN B-1	MFR JASHIELD JDGREN C-S J-A INC.	34525 105 00122-074S0 155858 0811212 SN N/A 13329 N/A 2041 2245	ASSE 0079 0079 0079 0002	1268 1269 00623 RENTAL RENTAL T CA 7 II 5 II 6 III 9 I	I I II II	24 11: 04 OU 2 CALIBR/ 08-AF 05-JA FEEDB/ 23-AF	4-NOV-2009 3-FEB-2010 4-SEP-2010 JT OF SERVICE 8-JUL-2010 ATION DUE PR-2010 AN-2010 ACK ONLY PR-2010 PR-2010
INA 6502 AUTOM. RED E ECC EMCI CHAMBERS AND RFI CHAM RFI CHAM RFI 3 STR ENVIRONMENT ENVIRONMENT ENVIRONMENT	DULA6150 ATIC STEPTRA BESTEMC-2 DMPACT4 PRO PLUS D STRIPLINE IBER 1 IBER 2 RIPLINE TAL (SAFETY) TAL (SAFETY) RANGE	3 ME 04' x 07'	MODULA6150 INA 6502 711-1100 ECOMPACT EMCPRO PLU MN TER COMPACT SHIELDING SYST N/A ECL5 GGTH-31S	TESEC TESEC SCHAFFI 4 HAEFEI S KEYTE PAN EM LIN B-N B-N	MFR IASHIELD IDGREN C-S M-A INC. N ASSE	34525 105 10122-074S0 155858 0811212 SN N/A 13329 N/A 2041 2245	ASSE 0079 0079 0079 0002	1268 1269 00623 RENTAL RENTAL T CA 7 II 5 II 6 III 9 I	I I II II	CALIBRA 08-AF 05-JA FEEDB 23-AF 23-AF	4-NOV-2009 3-FEB-2010 4-SEP-2010 JT OF SERVICE 8-JUL-2010 ATION DUE PR-2010 AN-2010 ACK ONLY PR-2010 DUE
INA 6502 AUTOM. RED E ECC EMCI CHAMBERS AND RFI CHAM RFI CHAM RFI 3 STR ENVIRONMENT ENVIRONMENT ENVIRONMENT RED	DULA6150 ATIC STEPTRA BESTEMC-2 DMPACT4 PRO PLUS D STRIPLINE IBER 1 IBER 2 RIPLINE TAL (SAFETY) TAL (SAFETY) RANGE 0.5-1000M	3 ME 04' x 07'	MODULA6150 INA 6502 711-1100 ECOMPACT EMCPRO PLU MN TER COMPACT SHIELDING SYST N/A ECL5 SGTH-31S N M 0000B A	TESEC TESEC SCHAFFI 4 HAEFEI S KEYTE PAN EM LIN B-1 FR S R 187	MFR JASHIELD JDGREN C-S J-A INC. J-A INC. N ASSET 08 00032	34525 105 10122-074S0 155858 0811212 SN N/A 13329 N/A 2041 2245	ASSE 0079 0079 0079 0002	1268 1269 00623 RENTAL RENTAL T CA 7 II 5 II 6 III 9 I 1 I	I I II II T	CALIBRA 08-AF 05-JA FEEDB 23-AF 23-AF	4-NOV-2009 3-FEB-2010 4-SEP-2010 JT OF SERVICE 8-JUL-2010 ATION DUE PR-2010 AN-2010 ACK ONLY PR-2010 DUE BLUE CLAMP)
INA 6502 AUTOM. RED E ECC EMCI CHAMBERS AND RFI CHAM RFI CHAM RFI 3 STR ENVIRONMENT ENVIRONMENT ENVIRONMENT AMPLIFIERS RED GREEN	DULA6150 ATIC STEPTRA BESTEMC-2 DMPACT4 PRO PLUS D STRIPLINE BER 1 BER 2 RIPLINE TAL (SAFETY) TAL (SAFETY) TAL (SAFETY) RANGE 0.5-1000M 0.5-1000M	3 ME 04' x 07' S MI Hz 10W10 Hz 10W10	MODULA6150 INA 6502 711-1100 ECOMPACT EMCPRO PLU MN STER COMPACT SHIELDING SYST N/A ECL5 SGTH-31S N M 000B A 000B A	PAN EM LIN B-N B-R R 187 R 234	MFR JASHIELD JOGREN C-S M-A INC. N ASSE 708 00032 123 00123	34525 105 10122-074S0 155858 0811212 SN N/A 13329 N/A 2041 2245	ASSE 0079 0079 0079 0002 0032	1268 1269 00623 RENTAL RENTAL T CA 7 II 5 II 6 III 9 I 1 I	I I II II T CALIB R-2010	24 1: 0. OU 2 CALIBR, 08-AF 05-JA FEEDB, 23-AF 23-AF	4-NOV-2009 3-FEB-2010 4-SEP-2010 UT OF SERVICE 8-JUL-2010 ATION DUE PR-2010 AN-2010 ACK ONLY PR-2010 DUE BLUE CLAMP) RFI1)
INA 6502 AUTOM. RED E ECC EMCI CHAMBERS AND RFI CHAM RFI CHAM RFI 3 STR ENVIRONMENT ENVIRONMENT ENVIRONMENT AMPLIFIERS RED GREEN BLUE	DULA6150 ATIC STEPTRA BESTEMC-2 DMPACT4 PRO PLUS D STRIPLINE IBER 1 IBER 2 RIPLINE TAL (SAFETY) TAL (SAFETY) TAL (SAFETY) RANGE 0.5-1000M 0.5-1000M 0.01-100M	3 ME 04' x 07' S MI Hz 10W1 Hz 10W1 Hz 75A2	MODULA6150 INA 6502 711-1100 ECOMPACT EMCPRO PLU MN STER COMPACT SHIELDING SYST N/A ECL5 SGTH-31S N M 000B A 000B A 000B A	PAN EM LIN B-N B-N R R 187 R 234 R 191	MFR JASHIELD JDGREN C-S M-A INC. M ASSE 708 00032 123 00123 65 00033	34525 105 10122-074S0 155858 0811212 SN N/A 13329 N/A 2041 2245 T CAT 2 II 3 II	ASSE 0079 0079 0079 0002 0032	1268 1269 00623 RENTAL RENTAL T CA 7 II 5 II 6 III 9 I 1 I	T CALIB R-2010 13-MAF BS CR	24 1: 0- OU 2 CALIBR, 08-AF 05-JA FEEDB, 23-AF 23-AF RATION (RTCA) R-2010 (FI)/09-C	4-NOV-2009 3-FEB-2010 4-SEP-2010 UT OF SERVICE 8-JUL-2010 ATION DUE PR-2010 ACK ONLY PR-2010 DUE BLUE CLAMP) RFI1) JUN-2010 (EU CRFI
INA 6502 AUTOM. RED E ECC EMCI CHAMBERS AND RFI CHAM RFI CHAM RFI 3 STR ENVIRONMENT ENVIRONMENT ENVIRONMENT BUVIRONMENT BLUE BLACK	DULA6150 ATIC STEPTRA BESTEMC-2 DMPACT4 PRO PLUS D STRIPLINE MBER 1 RIPLINE FAL (SAFETY) FAL (SAFETY) CONTROL	3 ME 04' x 07' S MI Hz 10W1 Hz 10W1 Hz 75A2 Hz 75A2	MODULA6150 INA 6502 711-1100 ECOMPACT EMCPRO PLU MN TER COMPACT SHIELDING SYST N/A ECL5 SGTH-31S N M 000B A 000B A 000B A 000B A	PAP EM LIN B-N B-R R 234 R 191 R 234	MFR JASHIELD JOGREN C-S M-A INC. M-A INC. N ASSE 708 00032 123 00123 65 00038 111 00122	34525 105 10122-074S0 155858 0811212 SN N/A 13329 N/A 2041 2245 T CAT 2 II 3 II 9 II	ASSE 0079 0079 0079 0002 0032	1268 1269 00623 RENTAL RENTAL T CA 7 II 5 II 6 III 9 I 1 I	CALIB R-2010 13-MAF BS CR	CALIBRA 08-AF 05-JA FEEDBA 23-AF RATION (RTCA R-2010 (FI)/09-CFI)/09-CFI	4-NOV-2009 3-FEB-2010 4-SEP-2010 UT OF SERVICE 8-JUL-2010 ATION DUE PR-2010 ACK ONLY PR-2010 DUE BLUE CLAMP) RFI1) JUN-2010 (EU CRFI JUN-2010 (EU CRFI
INA 6502 AUTOM. RED E ECC EMCI CHAMBERS AND RFI CHAM RFI CHAM RFI 3 STR ENVIRONMENT ENVIRONMENT ENVIRONMENT AMPLIFIERS RED GREEN BLUE BLACK ORANGE	DULA6150 ATIC STEPTRA BESTEMC-2 DMPACT4 PRO PLUS D STRIPLINE MBER 1 MBER 2 RIPLINE TAL (SAFETY) TAL (SAFETY) TAL (SAFETY) RANGE 0.5-1000M 0.01-100M 0.01-100M 0.01-100M	3 ME 04' x 07' S MI Hz 10W1' Hz 10W1' Hz 75A2 Hz 75A2 Hz 75A2	MODULA6150 INA 6502 711-1100 ECOMPACT EMCPRO PLU MN TEER COMPACT SHIELDING SYST N/A ECL5 SGTH-31S N M 000B A 000B A 000B A 000B A 000B A	PAN EM LIN B-N R 234 R 268	MFR IASHIELD IDGREN C-S II-A INC. II	34525 105 10122-074S0 155858 0811212 SN N/A 13329 N/A 2041 2245 T CAT 2 II 3 II 9 II 2 II 7 II	ASSE 0079 0079 0079 0002 0032	1268 1269 00623 RENTAL RENTAL T CA 7 II 5 II 6 III 9 I 1 I	CALIB R-2010 13-MAF BS CR BS CR	CALIBRA 05-JA FEEDB. 23-AF 23-AF RATION 0 (RTCA) R-2010 (FI) / 09-x FI) / 09-x FI) / 09-x	4-NOV-2009 3-FEB-2010 4-SEP-2010 UT OF SERVICE 8-JUL-2010 ATION DUE PR-2010 AN-2010 ACK ONLY PR-2010 DUE BLUE CLAMP) RFI1) JUN-2010 (EU CRFI JUN-2010 (EU CRFI JUN-2010 (EU CRFI JUN-2010 (EU CRFI
INA 6502 AUTOM. RED E ECC EMCI CHAMBERS AND RFI CHAM RFI CHAM RFI 3 STR ENVIRONMENT ENVIRONMENT ENVIRONMENT BLUE BLACK ORANGE BROWN 150W	DULA6150 ATIC STEPTRA BESTEMC-2 DMPACT4 PRO PLUS D STRIPLINE MBER 1 MBER 2 RIPLINE TAL (SAFETY) RANGE 0.5-1000M 0.5-1000M 0.01-100M 0.01-100M 0.1-250MI	3 ME 04' x 07' S MI Hz 10W11 Hz 75A2 Hz 75A2 Hz 75A2 Hz 75A2 Hz 75A2	MODULA6150 INA 6502 711-1100 ECOMPACT EMCPRO PLU MN TER COMPACT SHIELDING SYST N/A ECL5 SGTH-31S N M 000B A 000B A 000B A 000B A 000B A 000B A 000B A 000B A 000B A	PAN EM LIN B-N R 234 R 236 R 313	MFR JASHIELD JDGREN C-S M-A INC. MN ASSE 203 00123 65 00033 111 00122 127 00363 454 1255	34525 105 10122-074S0 155858 0811212 SN N/A 13329 N/A 2041 2245 T CAT 2 II 3 II 9 II 1 II	ASSE 0079 0079 0079 0002 0032	1268 1269 00623 RENTAL RENTAL T CA 7 II 5 II 6 III 9 I I 17-MA JUN-10 (NE JUN-10 (NE	CALIB R-2010 13-MAF EBS CR EBS CR	24 11: 00- 00- 20- 23-AF 23-AF 23-AF 23-AF (RTCA) R-2010 (FI)/09- FI)/09- L/Feepe	4-NOV-2009 3-FEB-2010 4-SEP-2010 JT OF SERVICE 8-JUL-2010 ATION DUE PR-2010 AN-2010 ACK ONLY PR-2010 DUE BLUE CLAMP) RFI1) JUN-2010 (EU CRFI JUN-2010 (EU CRFI JUN-2010 (EU CRFI JUN-2010 (EU CRFI JUN-2010 (EU CRFI JUN-2010 (EU CRFI JUN-2010 (EU CRFI JUN-2010 (EU CRFI JUN-2010 (EU CRFI JUN-2010 (EU CRFI JUN-2010 (EU CRFI JUN-2010 (EU CRFI JUN-2010 (EU CRFI
INA 6502 AUTOM. RED E ECC EMCI CHAMBERS AND RFI CHAM RFI CHAM RFI 3 STR ENVIRONMENT ENVIRONMENT ENVIRONMENT ENVIRONMENT BLUE BLACK ORANGE BROWN 150W YELLOW 150W	DULA6150 ATIC STEPTRA BESTEMC-2 DMPACT4 PRO PLUS D STRIPLINE IBER 1 IBER 2 RIPLINE TAL (SAFETY) TAL (SAFETY) RANGE 0.5-1000M 0.01-100M 0.01-100M 0.01-250MI 80-1000M	3 ME 04' x 07' S MI Hz 10W1 Hz 75A2 Hz 75A2 Hz 150W Hz 150W	MODULA6150 INA 6502 711-1100 ECOMPACT EMCPRO PLU MN TER COMPACT SHIELDING SYST N/A ECL5 GGTH-31S N M 0000B A 0000B A 0000B A 0000B A 0000B A 0000B A 0000B A 0000B A	PAN EM LIN B-1 R 234 R 191 R 234 R 313 R 0324	MFR JASHIELD JDGREN C-S M-A INC. M-A INC. M- ASSE 108 00032 123 00122 65 00038 11 00122 127 00367 1454 1255 1607 1253	34525 105 10122-074S0 155858 0811212 SN N/A 13329 N/A 2041 2245 T CAT 2 II 3 II 9 II 2 II 7 II	ASSE 0079 0079 0079 0002 0032	1268 1269 00623 RENTAL RENTAL T CA 7 II 5 II 6 III 9 I I 17-MA JUN-10 (NE JUN-10 (NE JUN-10 (NE JUN-10 (NE	T CALIB R-2010 13-MAF BS CR BS CR FOF CAI 010 (RF	24 1: 0- 0- 0- 0- 08-AF 05-JA FEEDB, 23-AF 23-AF 23-AF - 23-AF - 10- 10- 10- 10- 10- 10- 10- 10- 10- 1	4-NOV-2009 3-FEB-2010 4-SEP-2010 JT OF SERVICE 8-JUL-2010 ATION DUE PR-2010 AN-2010 ACK ONLY PR-2010 DUE BLUE CLAMP) RFI1) JUN-2010 (EU CRFI JUN-2010 (EU CRFI JUN-2010 (EU CRFI JUN-2010 (EU CRFI JAN-2010 (EU CRFI JAN-2010 (RFI2)
INA 6502 AUTOM. RED E ECC EMCI CHAMBERS AND RFI CHAM RFI CHAM RFI 3 STR ENVIRONMENT ENVIRONMENT ENVIRONMENT BLUE BLACK ORANGE BROWN 150W YELLOW 150W 500W AMP	DULA6150 ATIC STEPTRA BESTEMC-2 DMPACT4 PRO PLUS D STRIPLINE IBER 1 IBER 2 RIPLINE TAL (SAFETY) TAL (SAFETY) TAL (SAFETY) RANGE 0.5-1000M 0.01-100M 0.01-100M 0.1-250MI 80-1000M 0.1-250MI	3 ME 04' x 07' S MI HZ 10W1 HZ 10W1 HZ 75A2 HZ 75A2 HZ 75A2 HZ 150W HZ 75A2 HZ 150W	MODULA6150 INA 6502 711-1100 ECOMPACT EMCPRO PLU MN ETER COMPACT SHIELDING SYST N/A ECL5 SGTH-31S N M 000B A 000B A 000B A 000B A 000B A 000B A 000 A 000 A 000 A 000 A 000 A	PAN EM LIN B-N R 234 R 268 R 313 R 268 R 313 R 0324 R 0326 R 3036	MFR IASHIELD IDGREN C-S M-A INC. M-A IN	34525 105 10122-074S0 155858 0811212 SN N/A 13329 N/A 2041 2245 T CAT 2 II 3 II 9 II 7 II 1 II	ASSE 0079 0079 0079 0002 0032	1268 1269 00623 RENTAL RENTAL T CA 7 II 5 II 6 III 9 I 1 I 17-MA JUN-10 (NE JUN-10 (NE JUN-10 (NE JUN-10 (NE 20-MAR-20	CALIB R-2010 13-MAF BS CR BS CR COF CAI D10 (RF	24 1: 0- 0- 0- 0- 2- 23-AF 23-	4-NOV-2009 3-FEB-2010 4-SEP-2010 JT OF SERVICE 8-JUL-2010 ATION DUE PR-2010 AN-2010 ACK ONLY PR-2010 DUE BLUE CLAMP) RFI1) JUN-2010 (EU CRFI JUN-2010 (EU CRFI JUN-2010 (EU CRFI JUN-2010 (EU CRFI JUN-2010 (RFI2) JAN-2010 (RFI2)
INA 6502 AUTOM. RED E ECC EMCI CHAMBERS AND RFI CHAM RFI CHAM RFI 3 STR ENVIRONMENT ENVIRONMENT ENVIRONMENT ENVIRONMENT BLUE BLACK ORANGE BROWN 150W YELLOW 150W 500W AMP GTC 1-2.6	DULA6150 ATIC STEPTRA BESTEMC-2 DMPACT4 PRO PLUS D STRIPLINE IBER 1 IBER 2 RIPLINE TAL (SAFETY) TAL (SAFETY) TAL (SAFETY) TAL (SAFETY) 0.5-1000M 0.01-100M 0.01-100M 0.1-250MI 80-1000M 0.1-250MI 1.0-2.6 Gi	3 ME 04' x 07' MI Hz 10W1 Hz 75A2 Hz 75A2 Hz 150W Hz 150W Hz 150W Hz 500A	MODULA6150 INA 6502 711-1100 ECOMPACT EMCPRO PLU MN ETER COMPACT SHIELDING SYST N/A ECL5 SGTH-31S N M 000B A 000B A 000B A 000B A 000B A 000B A 000 A	PAN EM LIN B-N R 234 R 266 R 313 R 266 R 313 R 0326 R 0326 C 12	MFR IASHIELD IDGREN C-S I-A INC. I-A INC. I-B 00032 I-B 00032 I-B 00032 I-B 00032 I-B 00033 I-B 000	34525 105 10122-074S0 155858 0811212 SN N/A 13329 N/A 2041 2245 T CAT 2 II 3 II 9 II 2 II 1 II	ASSE 0079 0079 0079 0002 0032	1268 1269 00623 RENTAL RENTAL 7 II 5 II 6 III 9 I 1 I 17-MA JUN-10 (NE JUN-10 (NE JUN-10 (NE 20-MAR-20 20-MAR-20	CALIB R-2010 13-MAF BS CR BS CR BS CR O10 (RF D10 (RF	24 1: 0- 0- 0- 0- 2- 23-AF 23-	4-NOV-2009 3-FEB-2010 4-SEP-2010 JAN-2010 ATION DUE PR-2010 AN-2010 AN-2010 ACK ONLY PR-2010 DUE BLUE CLAMP) RFI1) JUN-2010 (EU CRFI JUN-2010 (EU CRFI JUN-2010 (EU CRFI JUN-2010 (RFI2) JAN-2010 (RFI2) MAY-2010 (RFI2) MAY-2010 (EU RFI-HIG
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ASSET

00031

Сат

SN

90369

MFR

HOLADAY

MN

HI-4422

RANGE

0.01-1000MHz

FIELD PROBES

RED

CALIBRATION DUE

26-APR-2010

GREEN	0.01	-1000MHz	HI-4	422	HOLA	ADAY	97363	00136	I	03-DEC-2009
BLUE		-1000MHz		1422	HOLA		95696	01100	1	17-APR-2010
Reference Laser Field		6000MHz		Star Probe	. Al		321700	1252	1	31-JAN-2010
MICROWAVE SURVEY		I50MHz	HI-1		HOLA		00075464	1244	!	Calibrate Before Use
GAUSSMETER (ELF M	ETER) 25F	Hz–1kHz	40	80	SYP	RIS	114173	1305	l	28-MAY-2010
CIONAL CENEDATOR	DAN DAN	05	MANI		MED		CN	Acort	CAT	CALIBRATION DUE
SIGNAL GENERATOR			MN		MFR		SN	ASSET	Сат	CALIBRATION DUE
RED	0.09-200		HP8648B		Agilent		3847U02192	00366 00034	!	29-MAY-2010 01-OCT-2009
Blue Green	0.1-100 0.09-200		HP8648A HP8648B		Agilent Agilent		3426A00548 3623A02072	00034	;	24-OCT-2009
ORANGE	0.1-100		HP8648B		Agilent		3537A01210	00123	i	25-JUN-2010
WHITE	0.01Hz-		HP33120A		Agilent		US36048143	1219	i	27-MAY-2010
Brown-White	0.01Hz-		HP33120A		Agilent		SG40019842	1232	i	17-DEC-2009
BLUE-WHITE	0.1Hz-1		HP3312A		Agilent		1432A07632	00775	1	06-MAY-2010
RFI-HIGH SWEEPER	0.01-20	.0GHz	HP83752A	١	Agilent		3610A01133	00087	1	06-JUL-2010
SWEEPER	0.01-20	.0GHz	HP83752A	١	Agilent		3610A01072	RENTAL	1	01-JUN-2010
REFERENCE SWEEPE	R 0.01-26	.5GHz	HP8673D		Agilent		3146A01212	1317	I	24-JUN-2010
AM/FM STEREO SIG. GE			LG3236		LEADER		3687301	00959	I	Cal Before Use
IMPULSE GENERATOR	1-100)Hz	CIG-25	ELEC	TRO-ME	TRICS	290	00942	<u> </u>	Cal Before Use
BULK INJECTION CLA		NGE	MN	MFR	SN	ASSET	CAT		ALIBRATIO	
GREEN (NEBS CRI	-,	30MHz	95236-1	ETS	50215	00118				CK & ORANGE AMP)
GREEN (EU CRFI		00MHz	95236-1	ETS	50215	00118				CK & ORANGE AMP)
RED (NEBS CRFI RED (EU CRFI)	,	30MHz 00MHz	95236-1 95236-1	ETS ETS	34026 34026	1020 1020	II II			CK & ORANGE AMP) CK & ORANGE AMP)
RED (RTCA/DO-160		-2MHz	95236-1	ETS	34026	1020	II		7-APR-2010	,
BLUE (RTCA/DO-160	,	0MHz	9142-1N	SOLAR	063824	1237	ii II		17-APR-2010	,
										,
ANSI T1.31	5		MFR		As	SET	Сат		CALIBRA ⁻	TION DUE
SBC Noise Ca	RT		C-S		12	285	III	CAL	IBRATION N	NOT REQUIRED
SBC TRANSIENT (CART		C-S		12	286	III	WAVES	HAPE VER	IFIED BEFORE USE
OSCILLOSCOPES ANI		MN		MFF	?		SN	ASSET	Сат	CALIBRATION DUE
EMC 100MH		TDS 2		TEKTRO			C036986	1166	1	18-MAY-2010
ESD REFERENCE		TDS 68		TEKTRO			3011287	RENTAL	!	18-MAY-2010
400MHz E*Sco		TDS 30		TEKTRO			C010074	1275	!	18-FEB-2010
PRODUCT SAFETY 1 DIFFERENTIAL PR		TDS 3		TEKTRO PROBEMA			3012357 07-134	00737 1296	:	17-OCT-2009 30-SEP-2010
500MHz 10x PF		P6139		TEKTRO			NA	1280	i	22-JUL-2011
500MHz 10X PF	-	P6139		TEKTRO			NA	1281	i	22-JUL-2011
REFERENCE 500MHz	-	P6139		TEKTRO			NA	1282	i	22-JUL-2011
REFERENCE 500MHz		P6139		TEKTRO			NA	1319	i	22-JUL-2011
500MHz 10x PF		P6139		TEKTRO	NIX		NA	1283	1	22-JUL-2011
REFERENCE HV 1000	X PROBE	P601	5A	TEKTRO	NIX	E	3056555	1277	1	18-MAY-2010
REFERENCE HV 1000		P601		TEKTRO			3056590	1278	1	18-MAY-2010
HV 1000x Pro		P601		TEKTRO			3053297	RENTAL	!	27-MAY-2010
HV 1000x Pro	DBE	P601	δA	TEKTRO	NIX		3045382	RENTAL		27-MAY-2010
00444										
CDN NETWORKS	RANGE		MN			ASSET	CAT		CALIBRAT	
Blue Red	0.10-100MHz		20A M-3			00806	II II			ACK & ORANGE AMP)
		1	5A M-3			00780	II II	υ9-JUN-		ACK & ORANGE AMP)
	0.10-100MHz					00784	II		OUT OF S	DEHVICE
YELLOW-BLACK	0.10-100MHz	1	5A M-3	C.		00770	- 11	UU IIINI	10 /Pi un Di	ACK & ODANICE AND)
YELLOW-BLACK GREEN	0.10-100MHz 0.10-100MHz	1	80A M-3	C-	-S	00779	 			ACK & ORANGE AMP)
YELLOW-BLACK GREEN YELLOW	0.10-100MHz 0.10-100MHz 0.10-100MHz	1 3 3	80A M-3 80A M-5	C· C·	-S -S	00804	II	09-JUN-	10 (BLUE, BL	ACK & ORANGE AMP))
YELLOW-BLACK GREEN	0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz	1 3 3	80A M-3 80A M-5 80A M-4	C- C-	-S -S -S	00804 1321	II II	09-JUN- 09-JUN-	10 (BLUE, BL 10 (BLUE, BL	ACK & ORANGE AMP)) LACK & ORANGE AMP)
YELLOW-BLACK GREEN YELLOW PURPLE	0.10-100MHz 0.10-100MHz 0.10-100MHz	1 3 3	80A M-3 80A M-5	C- C- C-	-S -S	00804	II	09-JUN- 09-JUN- 09-JUN-	10 (BLUE, BL 10 (BLUE, BL 10 (BLUE, BL	ACK & ORANGE AMP))
Yellow-Black Green Yellow Purple Brown	0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz	1 3 3 3	80A M-3 80A M-5 80A M-4 M-3	C C C C	-S -S -S -S	00804 1321 1169	 	-AUJ-60 -AUJ-60 -AUJ-60	10 (BLUE, BL 10 (BLUE, BL 10 (BLUE, BL 10 (BLUE, BL	ACK & ORANGE AMP)) LACK & ORANGE AMP) LACK & ORANGE AMP)
Yellow-Black Green Yellow Purple Brown Brown-White	0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz	1 3 3 8 N N	80A M-3 80A M-5 80A M-4 M-3 M-3 1-2 (DC)		-S -S -S -S -S -S -S	00804 1321 1169 1170 1171 1177	 	09-JUN- 09-JUN- 09-JUN- 09-JUN-	10 (BLUE, BL 10 (BLUE, BL 10 (BLUE, BL 10 (BLUE, BL 10 (BLUE, BL	ACK & ORANGE AMP)) LACK & ORANGE AMP) LACK & ORANGE AMP) LACK & ORANGE AMP)
YELLOW-BLACK GREEN YELLOW PURPLE BROWN BROWN-WHITE BROWN-BLACK RED-BLACK GREEN-WHITE	0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz	1 3 3 3 N N	80A M-3 80A M-5 80A M-4 M-3 M-3 1-2 (DC) 1-2 (DC)		-S -S -S -S -S -S -S -S -S	00804 1321 1169 1170 1171 1177 1259	 	09-JUN- 09-JUN- 09-JUN- 09-JUN- 09-JUN- 09-JUN-	10 (BLUE, BL 10 (BLUE, BL 10 (BLUE, BL 10 (BLUE, BL 10 (BLUE, BL 10 (BLUE, BL 10 (BLUE, BL	ACK & ORANGE AMP)) LACK & ORANGE AMP)
YELLOW-BLACK GREEN YELLOW PURPLE BROWN BROWN-WHITE BROWN-BLACK RED-BLACK GREEN-WHITE YELLOW (RES)	0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz	1 3 3 3 N N N	30A M-3 30A M-5 30A M-4 M-3 M-3 M-2 (DC) M-2 (DC) M-2 (DC)		-S -S -S -S -S -S -S -S -S -S -S -S -S -	00804 1321 1169 1170 1171 1177 1259 00810	 	09-JUN- 09-JUN- 09-JUN- 09-JUN- 09-JUN- 09-JUN-	10 (BLUE, BL 10 (BLUE, BL	ACK & ORANGE AMP)) LACK & ORANGE AMP)
YELLOW-BLACK GREEN YELLOW PURPLE BROWN BROWN-WHITE BROWN-BLACK RED-BLACK GREEN-WHITE YELLOW (RES) GREEN (RES)	0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz	1 3 3 3 N N N	30A M-3 30A M-5 30A M-4 M-3 M-3 M-2 (DC) M-2 (DC) M-2 (DC) Ω RESISTOR Ω RESISTOR		-S -S-S-S-S-S-S-S-S-S-S-S-S-S-S-S-S-S-S	00804 1321 1169 1170 1171 1177 1259 00810 1172	 	09-JUN- 09-JUN- 09-JUN- 09-JUN- 09-JUN- 09-JUN-	10 (BLUE, BL 10 (BLUE, BI 10 (BLUE, BI	ACK & ORANGE AMP)) LACK & ORANGE AMP)
YELLOW-BLACK GREEN YELLOW PURPLE BROWN BROWN-WHITE BROWN-BLACK RED-BLACK GREEN-WHITE YELLOW (RES) GREEN (RES) ARTIFICIAL HAND	$\begin{array}{c} 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}20\text{PF} \end{array}$	1 3 3 3 N N N	30A M-3 30A M-5 30A M-4 M-3 M-3 1-2 (DC) 1-1-2 (DC) 1-1-2 (DC) Ω RESISTOR CS-AH		-S -S	00804 1321 1169 1170 1171 1177 1259 00810 1172 1262	 	09-JUN- 09-JUN- 09-JUN- 09-JUN- 09-JUN- 09-JUN-	10 (BLUE, BL 10 JUL	ACK & ORANGE AMP)) LACK & ORANGE AMP)
YELLOW-BLACK GREEN YELLOW PURPLE BROWN BROWN-WHITE BROWN-BLACK RED-BLACK GREEN-WHITE YELLOW (RES) GREEN (RES)	0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz	1 3 3 3 N N N	30A M-3 30A M-5 30A M-4 M-3 M-3 M-2 (DC) M-2 (DC) M-2 (DC) Ω RESISTOR Ω RESISTOR		-S -S-S-S-S-S-S-S-S-S-S-S-S-S-S-S-S-S-S	00804 1321 1169 1170 1171 1177 1259 00810 1172	 	09-JUN- 09-JUN- 09-JUN- 09-JUN- 09-JUN- 09-JUN-	10 (BLUE, BL 10 (BLUE, BI 10 (BLUE, BI	ACK & ORANGE AMP)) LACK & ORANGE AMP)
YELLOW-BLACK GREEN YELLOW PURPLE BROWN BROWN-WHITE BROWN-BLACK RED-BLACK GREEN-WHITE YELLOW (RES) GREEN (RES) ARTIFICIAL HAND ARTIFICIAL HAND	$\begin{array}{c} 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}100\text{MHz} \\ 0.10\text{-}20\text{PF} \\ \hline 510\Omega/220\text{PF} \\ \end{array}$	1 3 3 3 N N N 100 100	80A M-3 80A M-5 80A M-4 M-3 M-3 M-2 (DC) 1-2 (DC) 1-2 (DC) Ω RESISTOR CS-AH CS-AH		-9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -	00804 1321 1169 1170 1171 1177 1259 00810 1172 1262	 	-NNP-60 -NNP-60 -NNP-60 -NNP-60 -NNP-60 -NNP-60 -NNP-60	10 (BLUE, BL 10 JUL	ACK & ORANGE AMP)) LACK & ORANGE AMP)
YELLOW-BLACK GREEN YELLOW PURPLE BROWN BROWN-WHITE BROWN-BLACK RED-BLACK GREEN-WHITE YELLOW (RES) GREEN (RES) ARTIFICIAL HAND	0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-220PF 510Ω/220PF	1 3 3 3 N N N 100 100	30A M-3 30A M-5 30A M-4 M-3 M-3 1-2 (DC) 1-1-2 (DC) 1-1-2 (DC) Ω RESISTOR CS-AH	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-S -S	00804 1321 1169 1170 1171 1177 1259 00810 1172 1262 1263	 	09-JUN- 09-JUN- 09-JUN- 09-JUN- 09-JUN- 09-JUN-	10 (BLUE, BL 10 JUL	ACK & ORANGE AMP)) LACK & ORANGE AMP)



TRUE RMS MULTIMETER	179	FLUKE	89280616	1228	I	29-SEP-2009
TRUE-RMS MULTIMETER	177	FLUKE	83390024	00973	1	OUT OF CAL
TRUE-RMS MULTIMETER	177	FLUKE	83390025	00974	I	11-MAR-2010
TRUE-RMS MULTIMETER (D RAND)	177	FLUKE	91320460	1226	1	03-APR-2010
TRUE-RMS MULTIMETER	177	FLUKE	83430419	00975	!	OUT OF CAL
TRUE RMS MULTIMETER	87111	_ FLUKE	70920208	00828	!	02-APR-2010
AC/DC CURRENT PROBE	A622	TEKTRONIX	08DD 6275Dv	1246	!	03-APR-2010
CURRENT SHUNT	200A50MV	SIMPSON	NA 04.40.400050	1290	!	25-AUG-2010
BENCHTOP DMM	34401A	HP	3146A69358	552	!	05-JUN-2010
BENCHTOP DMM	34401A	HP	3146A69272	553	ı	05-JUN-2010
Power/Noise Meters	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
POWER/NOISE INETERS POWER METER	437B	HP	2912A01367	01099	I	06-MAY-2010
Power Sensor	8481A	HP	2702A61351	01033	i	06-MAY-2010
Power Meter	4232A	Воонтон	11000	1260	i	01-SEP-2010
Power Sensor	51013-4E	BOONTON	34457	1261	i	01-SEP-2010
PSOPHOMETER	2429	BRUEL & KJAER	1237642	00585	İ	04-JUN-2011
TRANSMISSION LINE TESTER (DBRNC)	185T	AMREL	18507030010	1236	П	23-APR-2010
TRANSMISSION LINE TESTER (DBRNC)	185T	AMREL	998658	00823	II	23-APR-2010
THD, Power & HARMONIC ANALYZER	NANOVIP PLUS	ELCONTROL ENERGY	15925	00250	1	04-SEP-2011
CURRENT CLAMP FOR NANOVIP	MN 13-EL	ELCONTROL ENERGY	NA	1293	1	04-SEP-2011
Tape Measures	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
DIPOLE 26FT TAPE #1	2338CME	LUFKIN	C3166-1	00776	Ш	12-MAY-2011
DIPOLE 26FT TAPE #2	2338CME	LUFKIN	C3166-2	00777	Ш	12-MAY-2011
25FT/7.5M TAPE	4925IM	KOMELON	NA	1502	Ш	12-MAY-2011
25FT/7.5M TAPE	4925IM	KOMELON	NA	1514	II	12-MAY-2011
25FT TAPE		Workforce	NA	1515	II	12-MAY-2011
25FT/7.5M TAPE	4925IM	KOMELON	NA	1516	II	12-MAY-2011
Surge Generators	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
TRANSIENT WAVEFORM MONITOR	TWM-5	CDI	003982	00323	II	OUT OF SERVICE
Universal Surge Generator	M5	CDI	003966	00324	II	CAL BEFORE USE
THREE PHASE COUPLING NWK	3CN	CDI	003455	00325	II	CAL BEFORE USE
1.2x50uS PLUGIN MODULE 10x160uS PLUGIN MODULE	1.2x50uS PL 10x160uS PL		N/A N/A	00842 00843	II II	CAL BEFORE USE CAL BEFORE USE
10x560uS PLUGIN MODULE	10x16003 PL		N/A N/A	00843	II	CAL BEFORE USE
PSURGE CONTROLLER MODULE	PSURGE 80			00879	ii	CAL BEFORE USE
Coupling/Decoupling Module	PCD 900	HAEFEL		00880	ii	CAL BEFORE USE
IMPULSE MODULE	PIM 900	HAEFEL		00881	ii	CAL BEFORE USE
HIGH VOLTAGE CAP NWK 5KVDC, 18µF			01	00772	ii	12-JUN-2010
NEBS SURGE GENERATOR (LIMITED CA		C-S	N/A	00088	ii	CAL BEFORE USE
2x10uS Surge Generator	2x10uS	C-S	N/A	00846	ii	CAL BEFORE USE
10x700uS Surge Generator	10x700uS		N/A	00847	ii	CAL BEFORE USE
12 PAIR SURGE RESISTOR MODULE	N/A	, C-S	N/A	00768	ii	CAL BEFORE USE
VSS 500-M	VSS 500 M12			1155	ii	CAL BEFORE USE
TSS 500-M (10x700uS)	TSS500 M ⁻			1156	Ш	20-AUG-2010
NSG 2050 SURGE GENERATOR	NSG 2050			1273	1	18-MAY-2010
PNW 2050 1.2x50 IMPULSE NETWORK	PNW 2050) Tesec	200711-604LU	1279	1	18-MAY-2010
CDN 133 3 Phase Coupling Network	K CDN 133	TESEC	34416	1274	1	18-MAY-2010
Modula6150	Modula61			1268	I	24-NOV-2009
RED BESTEMC-2	711-1100			00623	1	04-SEP-2010
ECOMPACT4	ECOMPAC			RENTAL	II	OUT of Service
EMCPRO PLUS – 1.2x50uS	EMCPRO PL			RENTAL	II.	06-AUG-2010
EMCPRO PLUS - RINGWAVE	EMCPRO PL	.US KEYTEI	<u> </u>	RENTAL	II	24-JUL-2010
	h 4h I	14	ON!	A	0	0
METEOROLOGICAL METERS	MN 7400 Departure	MFR	SN	ASSET	CAT	CALIBRATION DUE
TEMP./HUMIDITY/ATM. PRESSURE GAUGE				00965 00789	l I	06-APR-2011
TEMPERATURE /HUMIDITY GAUGE WEATHER CLOCK (PRESSURE ONLY)	THG-912 BA928	HUGEF OREGON SCIE		00789 00831	 	17-MAR-2011 17-MAR-2011
CEMI2 THERMOHYGROMETER	35519-044	CONTROL CO		1336	i	17-MAR-2011 18-AUG-2011
THERMOHYGROMETER	35519-044	CONTROL CO		1337	ii	OUT OF CAL
CEMI3 THERMOHYGROMETER	35519-044	CONTROL CO		1338	ii	18-AUG-2011
CEMI4 THERMOHYGROMETER	35519-044	CONTROL CO		1339	ii	18-AUG-2011
THERMOHYGROMETER	35519-044	CONTROL CO		1340	ii	OUT OF CAL
CEMI5 THERMOHYGROMETER	35519-044	CONTROL CO		1341	ii	18-AUG-2011
THERMOHYGROMETER	35519-044	CONTROL CO		1342	Ш	OUT OF CAL



THERMOHYGROMETER (TEMP O	35519-044	CONTROL COMPAN	y 72457758	1343	Ш	11-AUG-2011	
CEMI6 THERMOHYGROMETER 35519-0			CONTROL COMPAN	y 72457730	1344	Ш	18-AUG-2011
1DCC-OATS-3M-I THERMOHYGRO	OMETER	35519-044	CONTROL COMPAN	y 72457635	1334	Ш	18-AUG-2011
CEMI1 THERMOHYGROMETE	R	35519-044	CONTROL COMPAN	y 72457738	1335	Ш	18-AUG-2011
CHAMBER1 THERMOHYGROME	TER	35519-044	CONTROL COMPAN	y 72457642	1345	Ш	18-AUG-2011
THERMOHYGROMETER		35519-044	CONTROL COMPAN	y 72457636	1346	Ш	OUT OF CAL
CHAMBER2 THERMOHYGROME	TER	35519-044	CONTROL COMPAN	y 72457639	1347	Ш	18-AUG-2011
EMC1 THERMOHYGROMETER	3	35519-044	CONTROL COMPAN	y 72457647	1348	Ш	18-AUG-2011
EMC2 THERMOHYGROMETER	3	35519-044	CONTROL COMPAN	y 72457653	1352	Ш	18-AUG-2011
EMC3 THERMOHYGROMETER	3	35519-044	CONTROL COMPAN	y 72457727	1353	Ш	18-AUG-2011
EMC4 THERMOHYGROMETER	3	35519-044	CONTROL COMPAN	y 90823028	1496	Ш	20-MAR-2011
EMC5 THERMOHYGROMETER	EMC5 THERMOHYGROMETER		CONTROL COMPAN	y 90823030	1497	Ш	20-MAR-2011
OV THERMOHYGROMETER	OV THERMOHYGROMETER		CONTROL COMPAN	y 90823031	1498	Ш	20-MAR-2011
RFI1 THERMOHYGROMETER	1	35519-044	CONTROL COMPAN	y 90823034	1499	Ш	20-MAR-2011
RFI3 (STRIPLINE) THERMOHYGRO	METER	35519-044	CONTROL COMPAN	y 90823035	1500	Ш	20-MAR-2011
REFERENCE THERMOHYGROM	ETER	35519-044	CONTROL COMPAN	y 90823036	1501	Ш	20-MAR-2011
THERMOCOUPLE MODULE(FOR D	MM)	80TK	FLUKE	93410013	1308	- 1	08-DEC-2010
THERMOCOUPLE MODULE (FOR D	MM)	80TK	FLUKE	93410017	1309	- 1	08-DEC-2010
	,						
OVERVOLTAGE CHAMBERS	MN	MFR	SN	ASSET	Сат		CALIBRATION DUE
POWER FAULT SIMULATOR	OV1	C-S	N/A	00792	III		VERIFY BEFORE USE
POWER FAULT SIMULATOR	OV2	C-S	N/A	00116	III		VERIFY BEFORE USE
CONSUMABLES	SF	PEC.	MFR	STOCK/MN	ASSET	Сат	CALIBRATION DUE
NEBS CHEESECLOTH	26-2	8M/KG	ED&D	ACC-01	N/A	III	N/A
NEBS CARBON BLOCK	3-MIL-GAF	1KV SURGE	RELIABLE	3AB	N/A	III	N/A

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

Conditions Of Testing

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

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

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



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

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

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