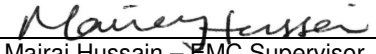




CURTIS-STRAUS

Test Report

Report No	EJ1387-2
Client	Learning Curve Brands, Inc
Address	1111 W. 22nd Street Suite 320 Oak Brook, IL 60523
Phone	(630) 573-7200
Items tested	Premium Digital Monitor – Child Unit
FCC ID	BMWTFY7292C
IC ID	6195A-TFY7292C
FRN	0015520463
Equipment Type	Digital Transmission System
Equipment Code	DTS
FCC/IC Rule Parts	47 CFR 15.247, RSS 210 issue 7 and RSS GEN issue 2
Test Dates	October 6-9, 2009
Results	As detailed within this report
Prepared by	 Matthew Burman – Test Engineer
Authorized by	 Mairaj Hussain – EMC Supervisor
Issue Date	Oct 15-2009
Conditions of Issue	This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 33 of this report.

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



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Form Final Report REV 7-20-07 (DW)



Summary

This test report supports an application for certification of a transmitter operating pursuant to 47 CFR 15.247 and RSS-210. The product is the Premium Digital Monitor Model Y7291C - Child Unit. It is a transmitter that operates in the range 2405-2480MHz.

We found that the product met the above requirements without modification. Ronald Pace from Learning Curve Brands, Inc. was present during the testing. The test sample was received in good condition.

Digital monitor (child unit) premium model was tested. EUT was tested in a system with a representative premium parent monitor. Similarities among different models are explained below.

1) SKU# Y7289 - One Model Y7289C CHILD unit with One Model Y7289P PARENT unit. Voice transmission is a one-way flow from the CHILD unit to the PARENT unit.

2) SKU# Y7290 - One Model Y7289C CHILD unit with Two Model Y7289P PARENT units. This is the same as SKU# Y7289 with an added PARENT unit in the box.

3) SKU# Y7291 - One Model Y7291C CHILD unit with One Model Y7291P PARENT unit. Voice transmission is mainly a one-way flow from the CHILD unit to the PARENT unit (normal operation), exactly the same as the Y7289C to Y7289P models. This Y7291P Parent unit has the addition of one push-to-talk (PTT) button that when depressed will change the direction of the voice transmission, from PARENT to CHILD. The hardware and software is identical to all other models.

3) SKU# Y7292 - One Model Y7291C CHILD unit with Two Model Y7292P PARENT units. Voice transmission is mainly a one-way flow from the CHILD units to the PARENT units (normal operation), exactly the same as the Y7289C to Y7289P and Y7291C to Y7291P models. This Y7292P Parent unit has the addition of two push-to-talk (PTT) buttons so that when either button is depressed; there will be a change in the direction of the voice transmission, from PARENT to CHILD or PARENT to other PARENT. The hardware and software is identical to all other models.

Release Control Record

Issue No.	Reason for change
1	Original Release

Date Issued
November 3, 2009



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By choosing the master or universal model to test (Y7292), all other models are represented as there are no differences in hardware and software.

Test Methodology

Radiated emission and AC Line conducted testing was performed according to the procedures specified in ANSI C63.4 (2003) and RSS-GEN. Test guidance for radiated emissions, conducted was also taken from FCC documentation: New guidance on measurements for digital transmission systems in section 15.247, along with the marker-delta method. Radiated Emissions were maximized by rotating the device around three orthogonal axes as well as varying the test antenna's height and polarity. The device antenna cannot be maximized separately.

Conducted emission at the antenna port was performed, as required by rule section.

The EUT operating voltage is 120Vac 60Hz for AC power, and +4.5Vdc for battery operation.

During AC line conducted emissions testing, a 50 Ω /50 μ H LISN was used for voltage measurements.

The environmental conditions are shown below.

Date	Temperature	Humidity
October 6, 2009	24.3°C	31%
October 7, 2009	23.5°C	38%
October 8, 2009	20°C	35%
October 9, 2009	21.4°C	37%

The following bandwidths were used during radiated spurious and line conducted emissions.

Frequency	RBW	VBW
0.15-30MHz	9kHz	30kHz
30-1000MHz	120kHz	1MHz
1-25GHz	1MHz	3MHz

Release Control Record

Issue No. Reason for change
1 Original Release

Date Issued
November 3, 2009

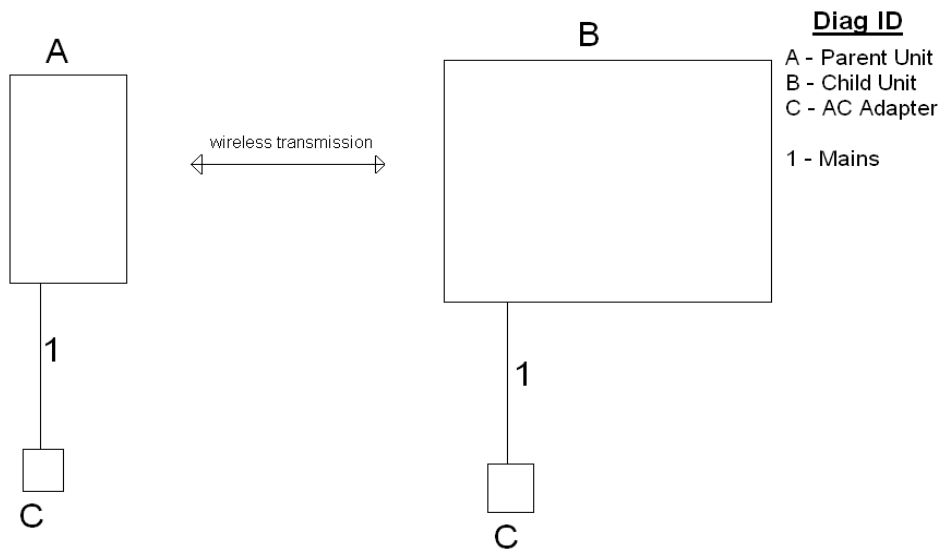


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Product Tested - Configuration Documentation

EUT Configuration										
Work Order: J1387 Company: Learning Curve Brands, Inc. Company Address: 1111 West 22 St. Suite 320 Oak Brook, IL 60523 Contact: Rachael Shagott Person Present: Ronald Pace										
	MN	FCC ID	IC ID	SN						
EUT:	Y7291C	BMWTFY7292C	6195A-TFY7292C	Sample 1						
PS:	U060030D12				Sample 1					
EUT Description: Premium Digital Monitor - Child Unit										
EUT Tx Frequency: 2405-2480MHz										
EUT Max Frequency: 16MHz										
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 Reason
DC Power	Power	1	all	2-wire dc	no	no	2m	2m	indoor	
Software / Operating Mode Description:										
The EUT continues to transmit audio between the parent and child units on channels 1-16 in 2405-2480MHz O-QPSK										
Performance Criteria:										
EUT continues to transmit voice and sound between the parent and child unit without degradation in voice quality, and the link between the units shall stay active.										

Test Set-up Diagram

Statement of Conformity

The Premium Digital Monitor Model Y7291C - Child Unit has been found to conform to the following parts of 47 CFR and RSS 210 as detailed below:

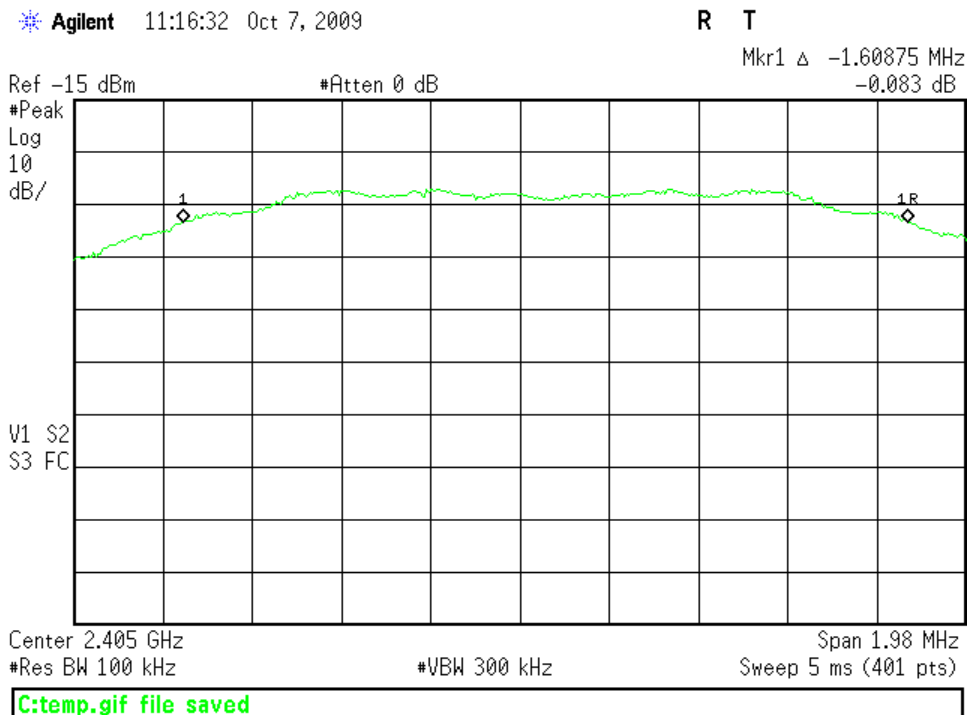
RSS-GEN	RSS 210	Part 15	Comments
5.3		15.15(b)	There are no controls accessible to the user that varies the output power.
5.2		15.19	The label is shown in the label exhibit.
7.1.5		15.21	Information to the user is shown in the instruction manual exhibit.
		15.27	No special accessories are required for compliance.
		15.31	The EUT was tested in accordance with the measurement standards in this section.
		15.33	Frequency range was investigated according to this section, unless noted in specific rule section under which the equipment operates.
		15.35	The EUT emissions were measured using the measurement detector and bandwidth specified in this section, unless noted in specific rule section under which the equipment operates.
7.1.4		15.203	The antenna for this device is hardwired to the PCB.
	2.6	15.205 15.209	The fundamental is not in a Restricted band and the spurious and harmonic emissions in the Restricted bands comply with the general emission limits of 15.209.
7.2.2		15.207	EUT meets the AC Line conducted emissions requirements of 15.207.
	Annex 8	15.247	The unit complies with the requirements of 15.247
4.6.1			Occupied Bandwidth measurements were made.

Test Results**Bandwidth****LIMIT**

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

MEASUREMENTS / RESULTS

6dB Bandwidth								
Date: 06-Oct-09		Company: Learning Curve			Work Order: J1387			
Engineer: Matthew Burman		EUT Desc: Child Unit		EUT Operating Voltage/Frequency: 120Vac 60Hz				
Temp: 23.5°C		Humidity: 38%						
Frequency Range: 2400-2483.5MHz				Measurement Distance: Conductive				
Notes: 6dB bandwidth		30dB of external attenuation						
Peak Output Power		RBW: 100kHz		VBW: 300kHz				
Antenna Polarization (H / V)	Frequency (MHz)	Reading (MHz)					FCC §15.247a (2)	
							Limit (MHz)	Result (Pass/Fail)
Low Channel	2405.0	1.6088					0.5	Pass
Mid Channel	2440.0	1.5890					0.5	Pass
High Channel	2480.0	1.5741					0.5	Pass
Test Site: CEMI-02			Cable 1: EMIR-13					
Analyzer: Rental SA#1			Antenna: Orange Horn					

PLOT**Low Channel**

Mid Channel

Agilent 11:18:00 Oct 7, 2009

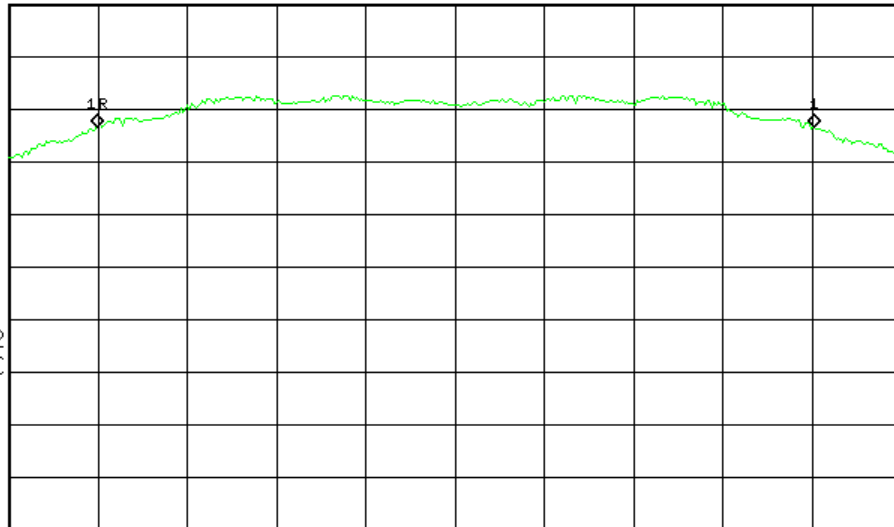
R T

Mkr1 Δ 1.58895 MHz

0.068 dB

Ref -15 dBm

#Atten 0 dB

#Peak
Log
10
dB/V1 S2
S3 FC

Center 2.44 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 1.98 MHz

Sweep 5 ms (401 pts)

C:\temp.gif file saved

High Channel

Agilent 11:20:03 Oct 7, 2009

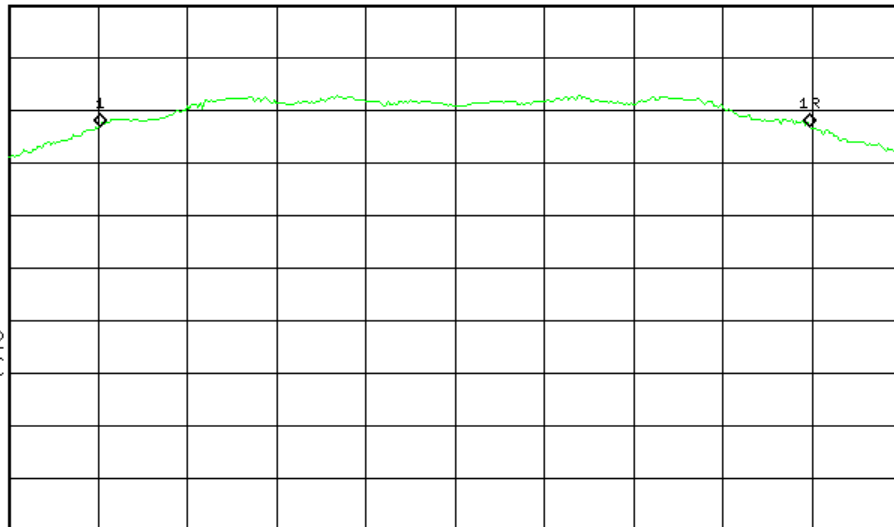
R T

Mkr1 Δ -1.57410 MHz

0.029 dB

Ref -15 dBm

#Atten 0 dB

#Peak
Log
10
dB/V1 S2
S3 FC

Center 2.48 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 1.98 MHz

Sweep 5 ms (401 pts)

C:\temp.gif file saved



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page 8 of 34

Peak Power**LIMIT**

Conducted Output Power

1 Watt

[15.247(b) (3)]

MEASUREMENTS / RESULTS

Peak Output Power												
Date: 07-Oct-09			Company: Learning Curve			Work Order: J1387						
Engineer: Matthew Burman			EUT Desc: Baby			EUT Operating Voltage/Frequency: 120Vac 60Hz						
Temp: 23.5°C			Humidity: 38%									
Frequency Range: 2400-2483.5MHz						Measurement Distance: Conductive						
Notes: Peak Output Power Option 1 Used												
limit of 1 Watt = 30dBm												
Antenna Polarization (H / V)	Frequency (MHz)	Reading (dBm)		Antennuator Factor (dB)	Cable Factor (dB)	Adjusted Reading (dBm)	FCC 15.247 (b[3])			Limit (dBm)	Margin (dB)	Result (Pass/Fail)
							Limit (dBuV/m)	Margin (dB)	Result (Pass/Fail)			
low channel	2405.0	-27.3	---	30.0	2.4	5.1	---	---	---	30.0	-24.9	Pass
mid channel	2440.0	-27.5	---	30.0	2.4	4.9	---	---	---	30.0	-25.1	Pass
high channel	2480.0	-27.5	---	30.0	2.4	4.9	---	---	---	30.0	-25.1	Pass
Table Result: Pass by -23.1 dB Worst Freq: 2405.0 MHz												
Test Site: CEMI-02			Cable 1: EMIR-HIGH-13									
Analyzer: Rental #1												

PLOTS**Low Channel**

Agilent 13:21:33 Oct 7, 2009

R T

Mkr1 2.405300 GHz
-27.31 dBm

Ref -14 dBm

#Atten 0 dB

#Peak

Log

10

dB/

V1 S2

S3 FC

Center 2.405 GHz

#Res BW 3 MHz

#VBW 3 MHz

Span 10 MHz
Sweep 4 ms (401 pts)

C:\temp.gif file saved



Mid Channel

Agilent 13:22:28 Oct 7, 2009

R T

Mkr1 2.440250 GHz
-27.54 dBm

Ref -14 dBm

#Atten 0 dB

#Peak
Log
10
dB/

V1 S2
S3 FC

Center 2.44 GHz

#Res BW 3 MHz

#VBW 3 MHz

Span 10 MHz
Sweep 4 ms (401 pts)

C:\temp.gif file saved

High Channel

Agilent 13:23:41 Oct 7, 2009

R T

Mkr1 2.480225 GHz
-27.47 dBm

Ref -14 dBm

#Atten 0 dB

#Peak
Log
10
dB/

V1 S2
S3 FC

Center 2.48 GHz

#Res BW 3 MHz

#VBW 3 MHz

Span 10 MHz
Sweep 4 ms (401 pts)

C:\temp.gif file saved



Band Edge Measurements

LIMITS

Radiated emissions which fall in the restricted bands, 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 / RESULTS

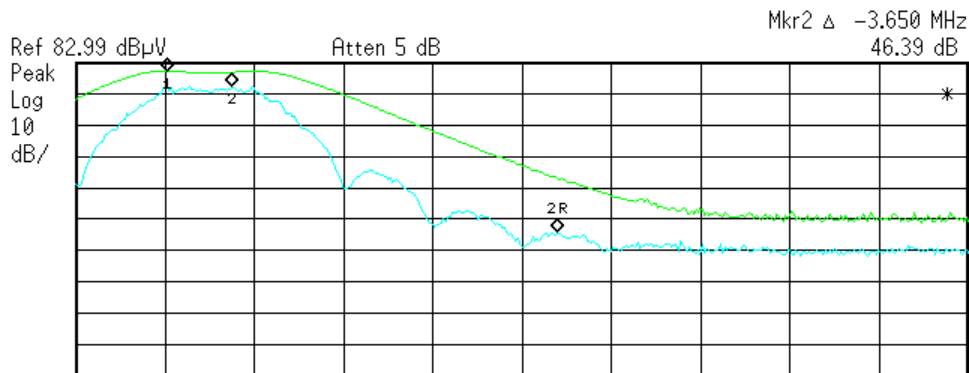
Radiated Emissions Table														
Date: 05-Oct-09				Company: Learning Curve				Work Order: J1387						
Engineer: Evan Gould				EUT Desc: "Transmitter"				EUT Operating Voltage/Frequency: 120Vac 60Hz						
Temp: 24.4°C				Humidity: 36%				Pressure: 1002mBar						
Frequency Range:								Measurement Distance: 1 m						
Notes: Duty Cycle Factor = -10.4dB (30% 100ms duty cycle as per client)														
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dBμV)	Average Reading (dBμV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dBμV/m)	Adjusted Avg Reading (dBμV/m)	FCC Class B High Frequency - Peak			FCC Class B High Frequency - Average		
									Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)
Low Band Edge H	2400.0	36.0	25.6	0.0	28.8	2.8	67.6	57.2	83.5	-15.9	Pass	63.5	-6.3	Pass
High Band Edge H	2483.5	33.9	23.5	0.0	28.9	2.9	65.7	55.3	83.5	-17.8	Pass	63.5	-8.2	Pass
Table Result:				Pass by -6.3 dB				Worst Freq: 2400.0 MHz						
Test Site: EMI Chamber 1				Cable 1: Asset #1505				Cable 2: Asset #1507						
Analyzer: Rental SA#1				Preamp: none				Antenna: Orange Horn						

PLOTS

High Channel – Marker-Delta Method

Agilent 13:55:22 Oct 5, 2009

R T



Center 2.483 GHz		Span 10 MHz	
#Res BW 100 kHz		VBW 300 kHz	
		Sweep 4 ms (401 pts)	
Marker	Trace	Type	Amplitude
1	(1)	Freq	80.26 dBμV
2R	(2)	Freq	28.87 dBμV
2Δ	(2)	Freq	46.39 dB

C:\temp.gif file saved



Radiated Spurious Emissions

LIMITS

Radiated emissions which fall in the restricted bands, 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 / RESULTS

Radiated Emissions Table												
Date: 05-Oct-09			Company: Learning Curve				Work Order: J1387					
Engineer: Evan Gould			EUT Desc: Child Unit				EUT Operating Voltage/Frequency: 120Vac 60Hz					
Temp: 24.4°C			Humidity: 36%				Pressure: 1002mBar					
Frequency Range: 30-1000MHz							Measurement Distance: 3 m					
Notes:												
Antenna Polarization (H / V)	Frequency (MHz)	Reading (dBμV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dBμV/m)	---			FCC Class B		
							Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)
V	50.6	34.5	25.8	8.9	0.4	18.0	---	---	---	40.0	-22.0	Pass
V	208.0	37.5	25.7	11.4	0.7	23.9	---	---	---	43.5	-19.6	Pass
V	224.0	39.2	25.8	11.7	0.9	26.0	---	---	---	46.0	-20.0	Pass
H	288.0	35.5	25.7	13.9	1.0	24.7	---	---	---	46.0	-21.3	Pass
H	304.0	30.6	25.7	13.9	1.0	19.8	---	---	---	46.0	-26.2	Pass
H	320.0	28.3	25.8	14.4	1.1	18.0	---	---	---	46.0	-28.0	Pass
Table Result: Pass by -19.6 dB							Worst Freq: 208.0 MHz					
Test Site: EMI Chamber 1			Cable 1: Asset #1505				Cable 2: Asset #1507					
Analyzer: Asset #1327			Preamp: Red-White				Antenna: Red-Black					

Radiated Emissions Table															
Date: 05-Oct-09			Company: Learning Curve						Work Order: J1387						
Engineer: Evan Gould			EUT Desc: Child Unit						EUT Operating Voltage/Frequency: 120Vac 60Hz						
Temp: 24.4°C			Humidity: 36%						Pressure: 1002mBar						
Frequency Range: 1 - 18GHz									Measurement Distance: 1 m						
Notes:															
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dBμV)	Average Reading (dBμV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dBμV/m)	Adjusted Avg Reading (dBμV/m)	FCC Class B High Frequency - Peak			FCC Class B High Frequency - Average			
									Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)	
Low Channel															
H	4810.0	45.0	45.0	20.8	33.1	4.3	61.6	61.6	83.5	-21.9	Pass	63.5	-1.9	Pass	
H	3367.0	44.9	44.9	22.3	31.6	3.5	57.7	57.7	83.5	-25.8	Pass	63.5	-5.8	Pass	
High Channel				---	---	---	---	---	---	---	---	---	---	---	
H	4959.0	42.2	42.2	20.9	33.8	4.5	59.6	59.6	83.5	-23.9	Pass	63.5	-3.9	Pass	
H	3472.0	44.8	44.8	21.9	31.6	3.6	58.1	58.1	83.5	-25.4	Pass	63.5	-5.4	Pass	
Mid Channel				---	---	---	---	---	---	---	---	---	---	---	
H	4879.0	44.1	44.1	20.8	33.4	4.4	61.1	61.1	83.5	-22.4	Pass	63.5	-2.4	Pass	
H	3414.0	45.2	45.2	22.1	31.6	3.6	58.3	58.3	83.5	-25.2	Pass	63.5	-5.2	Pass	
Table Result:										Pass by -1.9 dB			Worst Freq: 3367.0 MHz		
Test Site: EMI Chamber 1			Cable 1: Asset #1505						Cable 2: Asset #1507						
Analyzer: Rental SA#1			Preamp: Asset #1517						Antenna: Orange Horn						

Radiated Emissions Table															
Date: 07-Oct-09				Company: Learning Curve						Work Order: J1387					
Engineer: Matthew Burman				EUT Desc: Child Unit						EUT Operating Voltage/Frequency: 120Vac 60Hz					
Temp: 23.4°C				Humidity: 38%											
Frequency Range: 18-25GHz										Measurement Distance: 1 m					
Notes:															
										FCC 15.247 (d)					
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dBμV)	Duty Cycle Correction Factor (dB)	Average Reading (dBμV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dBμV/m)	Adjusted Avg Reading (dBμV/m)	FCC Class B High Frequency - Peak			FCC Class B High Frequency - Average		
										Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)
No Emission Found															
Test Site: 3m Indoor OATS						Cable 1: EMIR-HIGH-13						Antenna: 18-26.5GHz Horn			
Analyzer: Rental SA#5						Preamp: 18-26.5GHz									



Conducted Spurious Emissions

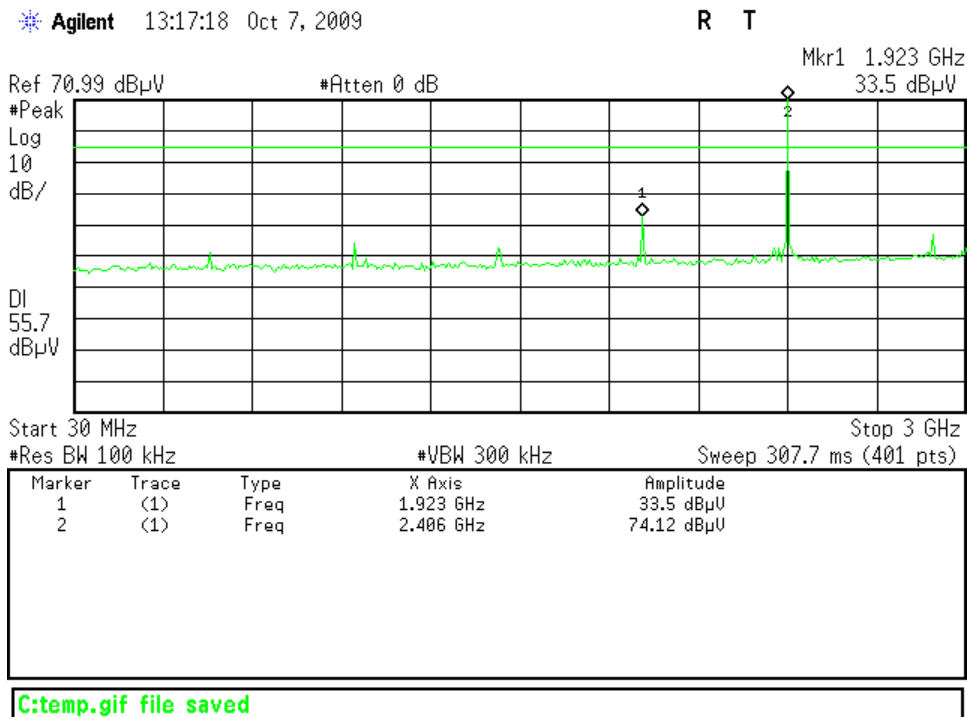
LIMITS

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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 that contains the highest level of desired power...

[15.247(d)]

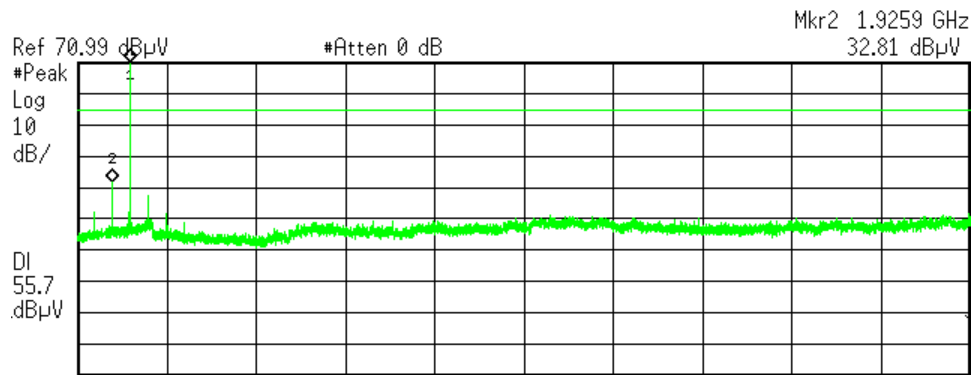
MEASUREMENTS / RESULTS

Low Channel



Agilent 11:26:39 Oct 7, 2009

R T



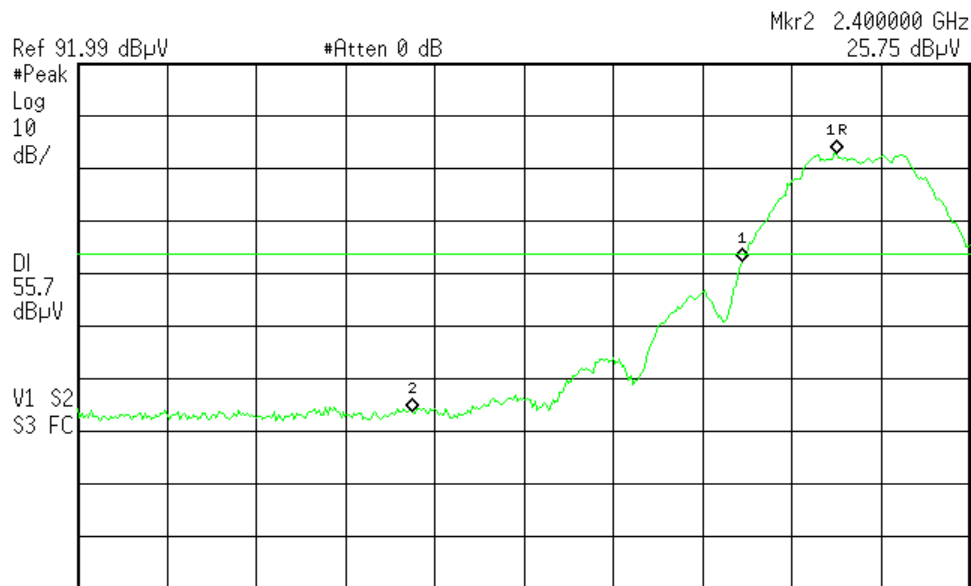
Start 1 GHz Stop 25 GHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 2.486 s (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.4064 GHz	72.69 dBμV
2	(1)	Freq	1.9259 GHz	32.81 dBμV

C:\temp.gif file saved

Agilent 11:24:13 Oct 7, 2009

R T



Center 2.401 GHz Span 10 MHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)

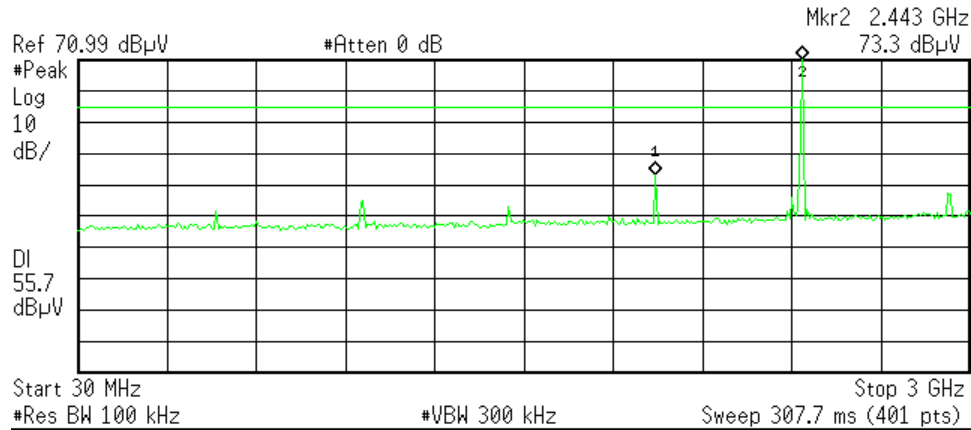
C:\temp.gif file saved



Mid Channel

Agilent 13:16:34 Oct 7, 2009

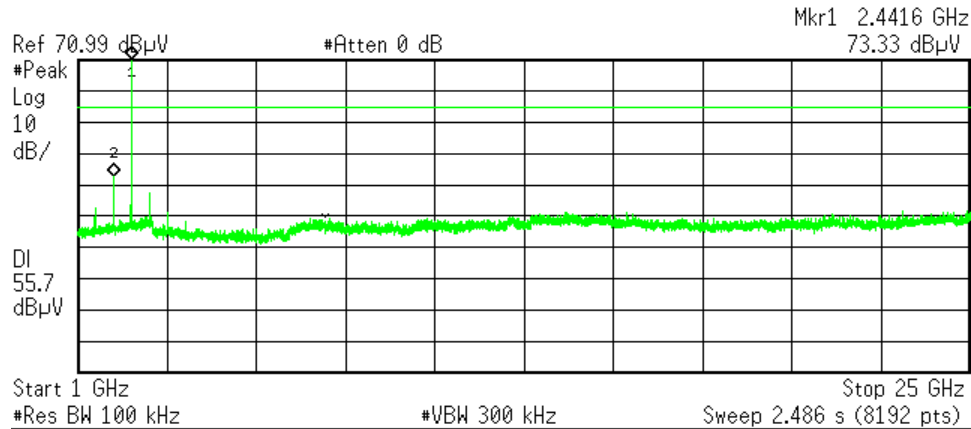
R T



C:\temp.gif file saved

Agilent 13:13:06 Oct 7, 2009

R T



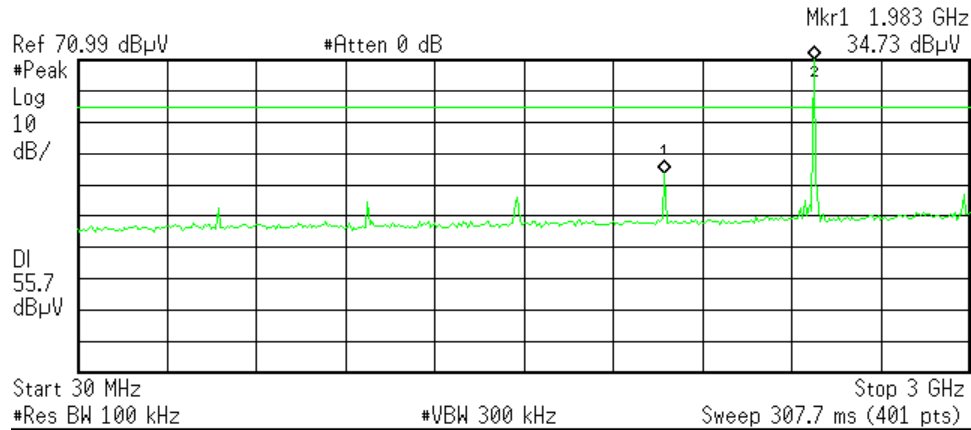
C:\temp.gif file saved



High Channel

Agilent 13:15:39 Oct 7, 2009

R T

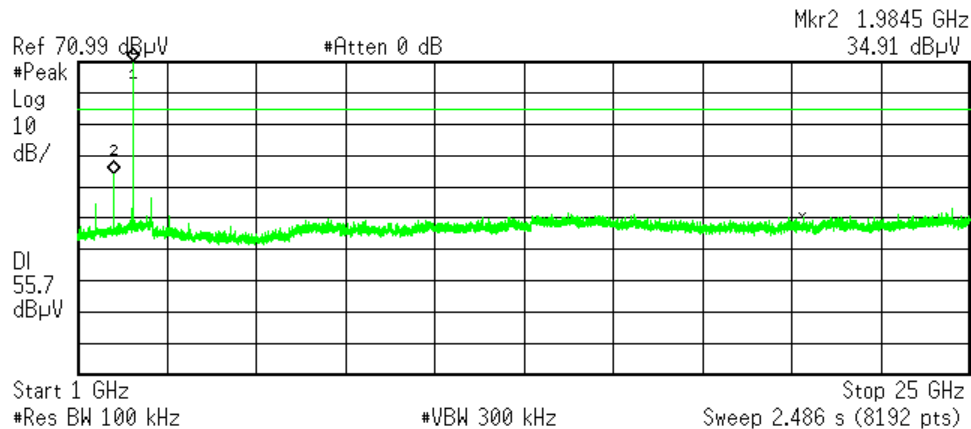


Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	1.983 GHz	34.73 dBμV
2	(1)	Freq	2.480 GHz	73.08 dBμV

C:\temp.gif file saved

Agilent 13:14:05 Oct 7, 2009

R T



Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.4826 GHz	72.32 dBμV
2	(1)	Freq	1.9845 GHz	34.91 dBμV

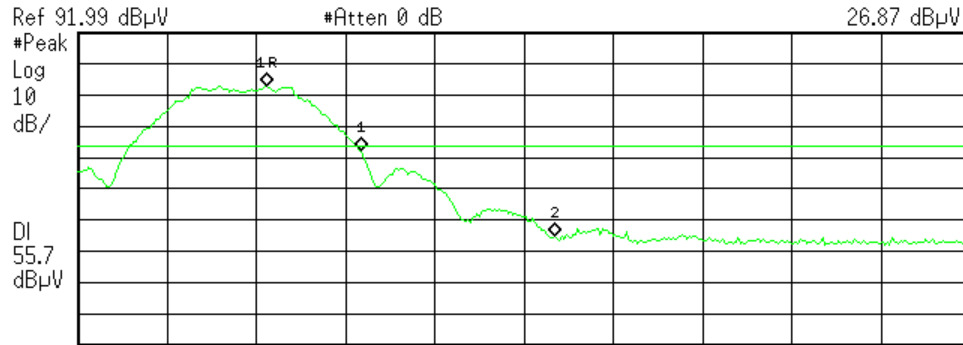
C:\temp.gif file saved



Agilent 11:22:34 Oct 7, 2009

R T

Mkr2 2.483500 GHz
26.87 dBμV



Center 2.483 GHz Span 10 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Freq	2.480275 GHz	74.69 dBμV
1Δ	(1)	Freq	1.050 MHz	-20.52 dB
2	(1)	Freq	2.483500 GHz	26.87 dBμV

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Power Spectral Density

LIMIT

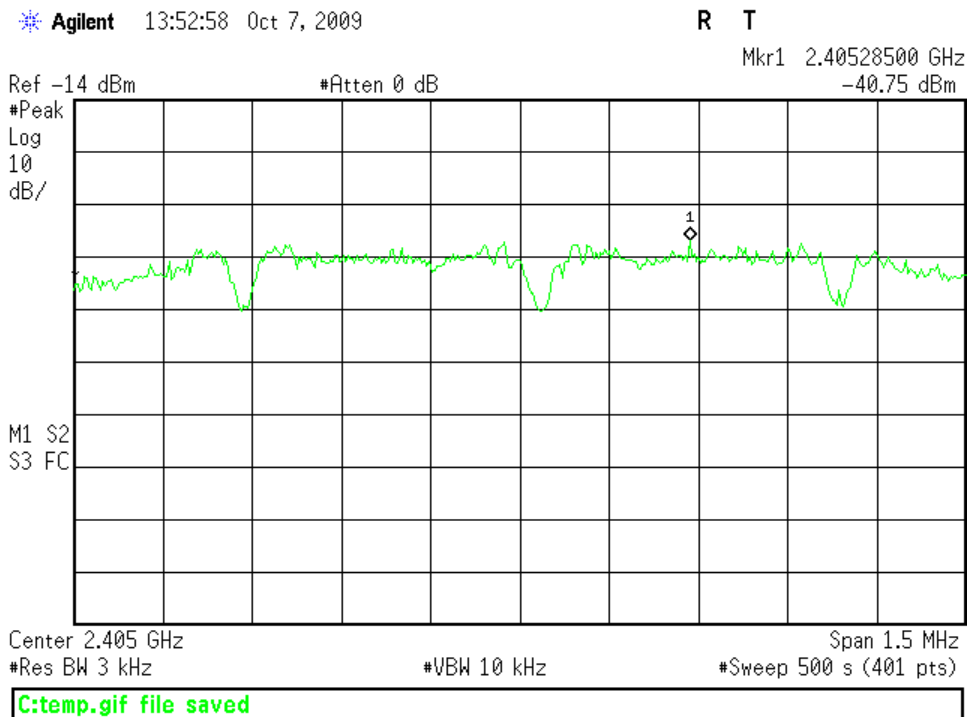
...the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.
[15.247(e)]

MEASUREMENTS / RESULTS

Power Spectral Density												
Date: 07-Oct-09			Company: Learning Curve						Work Order: J1387			
Engineer: Matthew Burman			EUT Desc: Child Unit						EUT Operating Voltage/Frequency: 120Vac 60Hz			
Temp: 23.5°C			Humidity: 38%									
Frequency Range: 2400-2483.5MHz								Measurement Distance: Conductive				
Notes: PSD Option 1			RBW: 3kHz VBW:10kHz			Span:1.5MHz Sweep time: 500sec						
Antenna Polarization (H / V)	Frequency (MHz)	Reading (dBm)		Antennuator Factor (dB)	Cable Factor (dB)	Adjusted Reading (dBm)	---			FCC 15.247 (e)		
							Limit (dBuV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBm)	Margin (dB)	Result (Pass/Fail)
low channel	2405.0	-40.8	---	30.0	2.4	-8.4	---	---	---	8.0	-16.4	Pass
mid channel	2440.0	-41.3	---	30.0	2.4	-8.9	---	---	---	8.0	-16.9	Pass
high channel	2480.0	-41.2	---	30.0	2.4	-8.8	---	---	---	8.0	-16.8	Pass
Table Result: Pass by -23.1 dB							Worst Freq: 2405.0 MHz					
Test Site: CEMI-02			Cable 1: EMIR-HIGH-13									
Analyzer: Rental #1												

PLOTS

Low Channel



Mid Channel

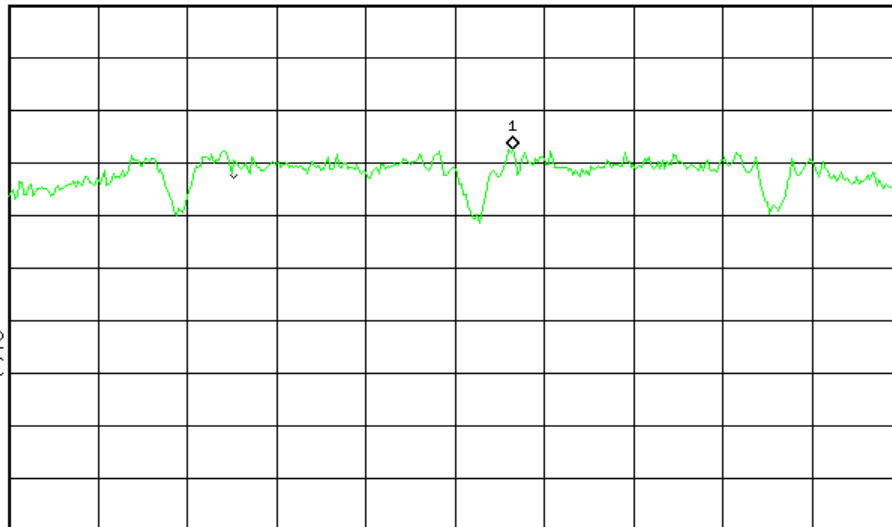
Agilent 13:43:55 Oct 7, 2009

R T

Mkr1 2.44009750 GHz
-41.34 dBm

Ref -14 dBm

#Atten 0 dB

#Peak
Log
10
dB/V1 S2
S3 FC

Center 2.44 GHz

#Res BW 3 kHz

#VBW 10 kHz

Span 1.5 MHz
#Sweep 500 s (401 pts)

C:\temp.gif file saved

High Channel

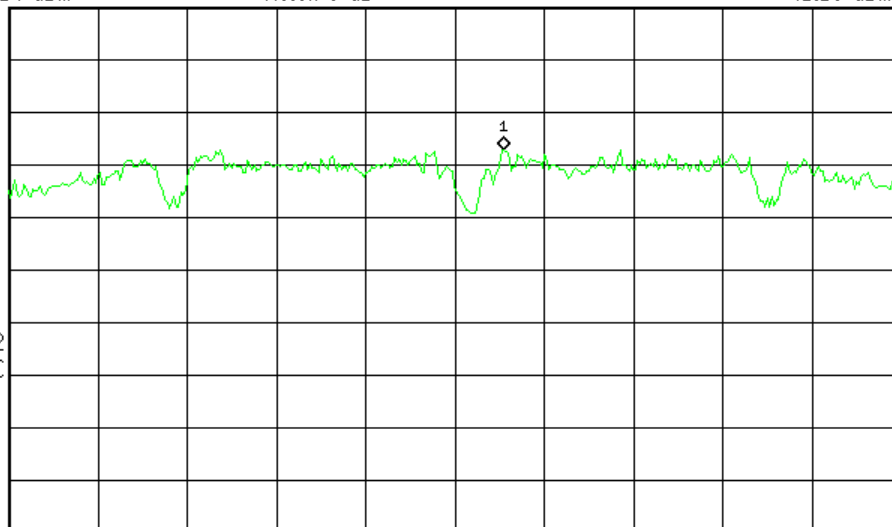
Agilent 13:33:39 Oct 7, 2009

R T

Mkr1 2.48009250 GHz
-41.18 dBm

Ref -14 dBm

#Atten 0 dB

#Peak
Log
10
dB/V1 S2
S3 FC

Center 2.48 GHz

#Res BW 3 kHz

#VBW 10 kHz

Span 1.5 MHz
#Sweep 500 s (401 pts)

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AC Line Conducted Emissions

LIMITS

Frequency of emission (MHz)	Quasi-peak limit (dB μ V)	Average limit (dB μ V)
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 / RESULTS

AC Mains Conducted Emissions										
Date: 06-Oct-09			Company: Learning Curve					Work Order: J1387		
Engineer: Matthew Burman			EUT Desc: Children					Test Site: CEMI-02		
Temp: 24.3°C			Humidity: 31%							
Notes: US power supply (MN:JU060030D12)										
Measurement Device: Asset #1492 LISN						EUT Operating Voltage/Frequency: 120Vac 60Hz				
Range: 0.15-30MHz						Spectrum Analyzer: Green				
Frequency (MHz)	Q.P. Readings		Ave. Readings		Impedance Factor (dB)	FCC § 15.207		FCC § 15.207		Overall Result (Pass/Fail)
	QP1 (dBµV)	QP2 (dBµV)	AV1 (dBµV)	AV2 (dBµV)		qp Limit (dBµV)	qp Margin dB	AVE Limit (dBµV)	AVE Margin dB	
0.15	12.0	0.4	3.5	-7.8	20.1	66.0	-33.9	56.0	-32.4	Pass
0.17	21.0	19.8	14.1	13.2	20.1	65.0	-23.9	55.0	-20.8	Pass
0.23	25.3	23.3	18.9	18.7	20.1	62.3	-16.9	52.3	-13.4	Pass
0.26	26.2	24.2	19.3	19.7	20.1	61.4	-15.2	51.4	-11.6	Pass
0.37	9.6	6.5	3.1	-0.9	20.1	58.6	-28.9	48.6	-25.4	Pass
0.56	6.4	-1.9	-2.6	-8.4	20.1	56.0	-29.5	46.0	-28.5	Pass
Table Result:		Pass	by	-11.60 dB				Worst Freq:		0.26 MHz



Voltage Variations

REQUIREMENT

Measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery powered equipment, the equipment tests shall be performed using a new battery.
[15.31(e)]

MEASUREMENTS / RESULTS

Voltage Variations									
Date: 12-Oct-09			Company: Learning Curve, Inc.				Work Order: J1387		
Engineer: Matthew Burman			EUT Desc: Child Unit				EUT Operating Voltage/Frequency: 120Vac 60Hz		
Temp: 19.7 °C			Humidity: 29%						
Frequency Range: 2405-2480MHz						Measurement Distance: 1 m			
Notes: EUT transmitting at peak output power EUT not fully maximized									
Antenna Polarization (H / V)	Frequency (MHz)	Reading (dBm)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dBµV/m)	FCC 15.31(e)		
								Margin (dB)	Result (Pass/Fail)
low channel			---	---	---	---	---	---	---
120Vac 60Hz	2405.0	-36.4	0.0	29.3	1.4	-5.7	---	---	Pass
138Vac 60Hz	2405.0	-36.3	0.0	29.3	1.4	-5.6	---	-0.1	Pass
102Vac 60Hz	2405.0	-36.4	0.0	29.3	1.4	-5.7	---	0.0	Pass
mid channel			---	---	---	---	---	---	---
120Vac 60Hz	2440.0	-37.5	0.0	29.3	1.4	-6.8	---	---	Pass
138Vac 60Hz	2440.0	-37.3	0.0	29.3	1.4	-6.6	---	0.2	Pass
102Vac 60Hz	2440.0	-37.4	0.0	29.3	1.4	-6.7	---	-0.1	Pass
high channel			---	---	---	---	---	---	---
120Vac 60Hz	2480.0	-44.2	0.0	29.4	1.4	-13.4	---	---	Pass
138Vac 60Hz	2480.0	-44.1	0.0	29.4	1.4	-13.3	---	-0.2	Pass
102Vac 60Hz	2480.0	-44.6	0.0	29.4	1.4	-13.8	---	0.3	Pass
Test Site: 3m Indoor OATS			Cable 1: EMIR-HIGH-21						
Analyzer: Rental SA#5			Preamp: none				Antenna: Black Horn		

Occupied Bandwidth

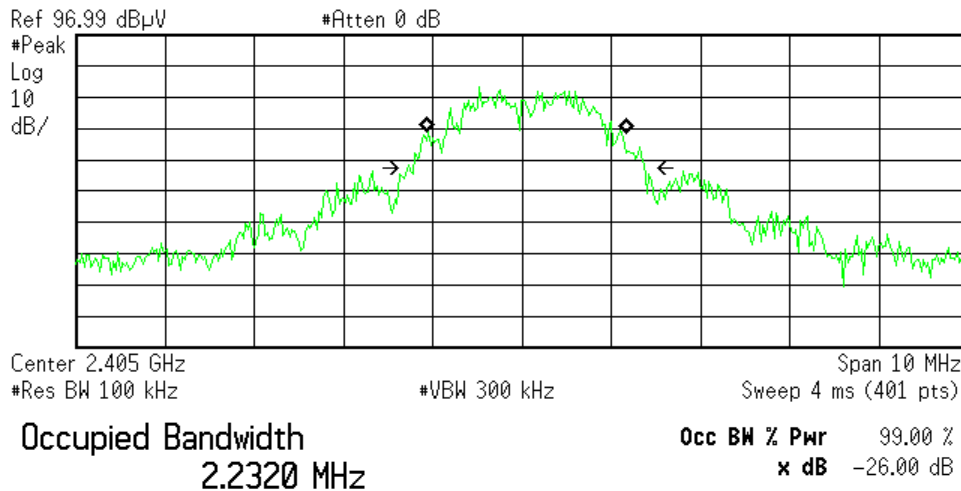
REQUIREMENT

When an occupied bandwidth is no specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured.
[RSS-GEN 4.6.1]

Low Channel

Agilent 02:28:08 Oct 10, 2009

R T



Transmit Freq Error 48.585 kHz
x dB Bandwidth 2.568 MHz*

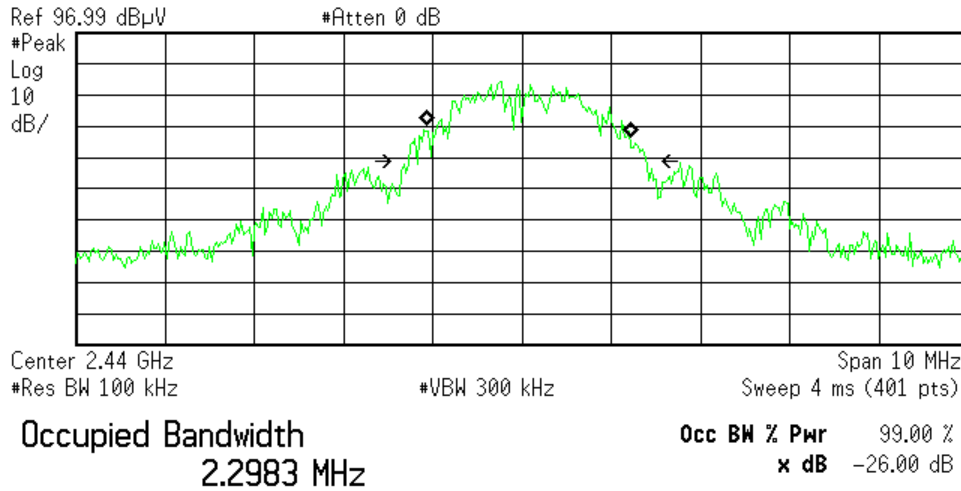
C:\temp.gif file saved

Mid Channel



* Agilent 02:26:44 Oct 10, 2009

R T



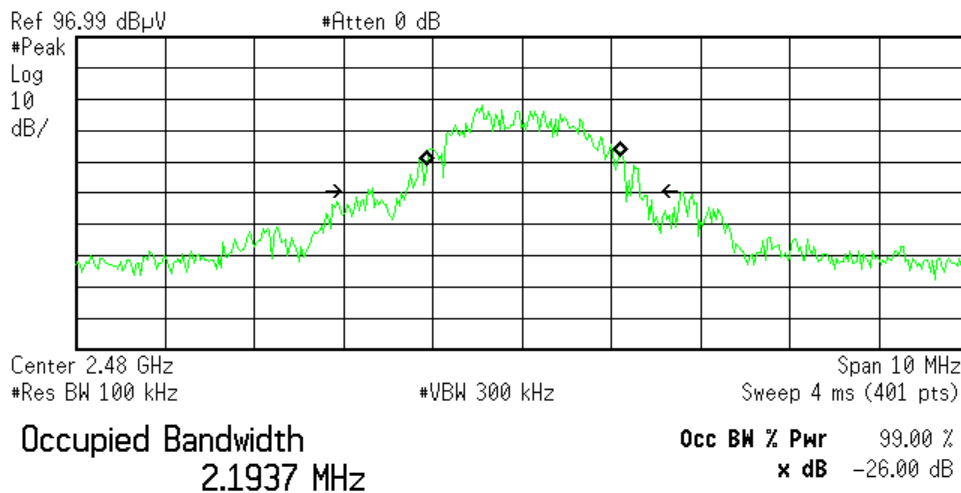
Transmit Freq Error 67.582 kHz
x dB Bandwidth 2.702 MHz*

C:\temp.gif file saved

High Channel

* Agilent 02:24:56 Oct 10, 2009

R T



Transmit Freq Error 13.436 kHz
x dB Bandwidth 3.249 MHz*

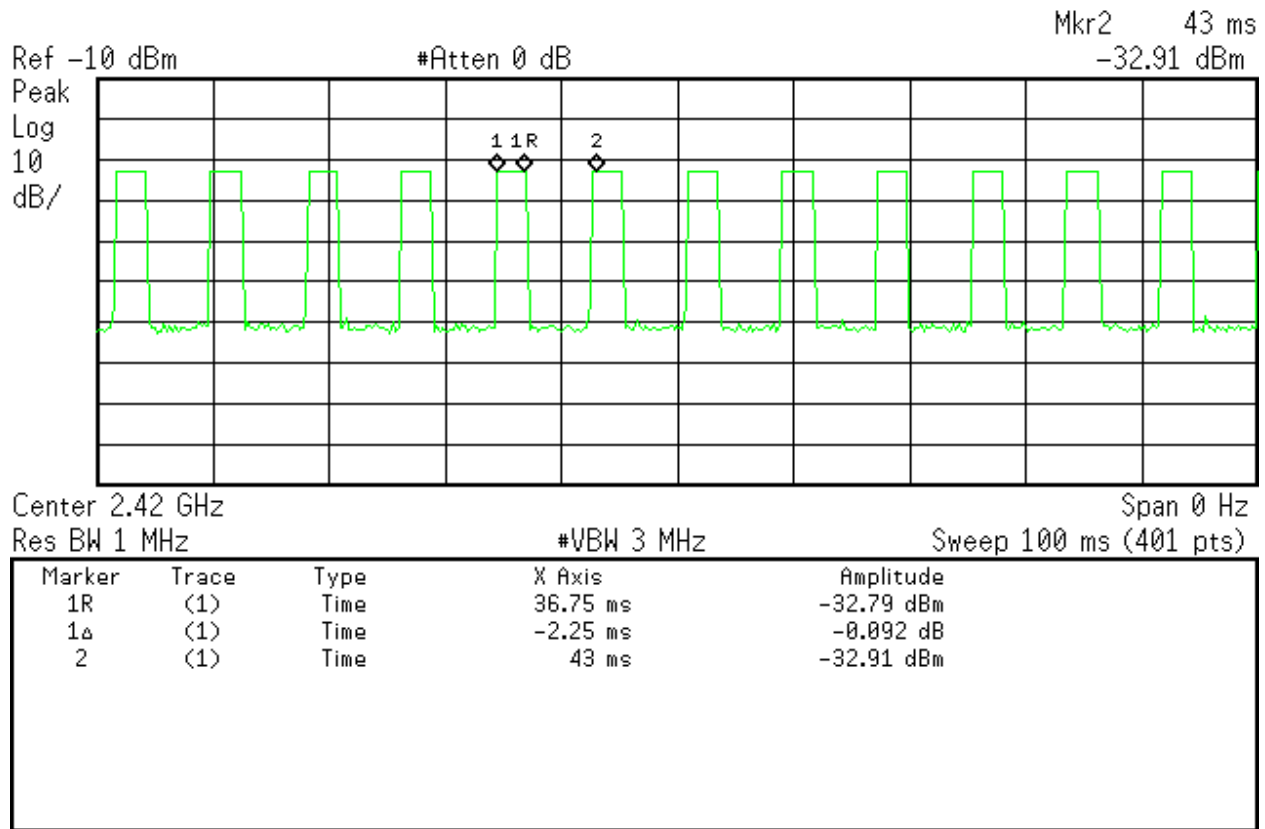
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Duty Cycle Factor

* Agilent 03:14:54 Oct 15, 2009

R T



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Total ON time in 100ms => 2.25ms * 12 = 27ms

DCF = 20 * log (27/100) = -11.3dB

Client declared a duty cycle of 30% which yields a DCF of 10.4dB, therefore 10.4dB was used in the calculations.

Measurement Uncertainty

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

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



Test Equipment Used

REV. 08-OCT-2009

SPECTRUM ANALYZERS / RECEIVERS /PRESELECTORS	RANGE	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
RED	9kHz-1.8GHz	8591E	Agilent	3441A03559	00024	I	03-MAR-2010
WHITE	9kHz-22GHz	8593E	Agilent	3547U01252	00022	I	10-DEC-2009
BLUE	9kHz-1.8GHz	8591E	Agilent	3223A00227	00070	I	13-MAY-2010
YELLOW	9kHz-2.9GHz	8594E	Agilent	3523A01958	00100	I	19-JAN-2010
GREEN	9kHz-26.5GHz	8593E	Agilent	3829A03618	00143	I	11-JUN-2010
BLACK	9kHz-12.8GHz	8596E	Agilent	3710A00944	00337	I	18-SEP-2010
GOLD	100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	I	14-AUG-2010
SA EMI CHAMBER (1327)	9kHz-13.2 GHz	E4405B	Agilent	MY45103416	1327	I	06-FEB-2010
SA EMI CHAMBER (1328)	9kHz-13.2 GHz	E4405B	Agilent	MY44210241	1328	I	06-FEB-2010
REFERENCE EMI TEST RECEIVER	20-1000MHz	ESVS30	R&S	827957/001	01098	I	Out of Cal
RENTAL SA #1 (BROWN)	9kHz-26.5GHz	E4407B	Agilent	SG44210511	1510	I	10-FEB-2010
RENTAL SA #5	9kHz-26.5 GHz	E4407B	Agilent	MY44220066	1491	I	02-FEB-2010
EMI CHAMBER PRESELECTOR	9kHz-1.8GHz	EM-2701	Electro-Metrics	539	1511	I	27-FEB-2010
EMI CHAMBER PRESELECTOR	9kHz-1.8GHz	EM-2701	Electro-Metrics	540	1512	I	27-FEB-2010

LISNS/MEASUREMENT PROBES	RANGE	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
RED LISN	9kHz-50MHz	8012-50-R-24-BNC	SOLAR	956348	00753	I	19-JUN-2010
BLUE LISN (DC)	50kHz-50MHz	8012-50-R-24-BNC	SOLAR	956349	00752	I	07-AUG-2010
YELLOW-BLACK LISN	30kHz-50MHz	8012-50-R-24-BNC	SOLAR	0411657	00248	I	27-MAY-2010
ORANGE LISN	9kHz-50MHz	8012-50-R-24-BNC	SOLAR	903707	00754	I	27-MAY-2010
GOLD LISN (DC)	9kHz-50MHz	8012-50-R-24-BNC	SOLAR	984734	00247	I	23-JUL-2010
BROWN LISN	9kHz-50MHz	8012-50-R-24-BNC	SOLAR	0411656	00986	I	23-JUL-2010
GREEN LISN	9kHz-50MHz	8012-50-R-24-BNC	SOLAR	0411658	00987	I	11-FEB-2010
YELLOW LISN	9kHz-50MHz	8012-50-R-24-BNC	SOLAR	984735	1080	I	15-DEC-2009
WHITE-BLACK LISN	10kHz-30MHz	8610-50-TS-100-N	SOLAR	972019	00678	I	27-MAY-2010
BLACK LISN	10kHz-30MHz	8610-50-TS-100-N	SOLAR	972017	00675	I	19-JUN-2010
RED-BLACK LISN	10kHz-30MHz	8610-50-TS-100-N	SOLAR	972016	00677	I	22-JUN-2010
BLUE-BLACK LISN	10kHz-30MHz	8610-50-TS-100-N	SOLAR	972018	00676	I	27-MAY-2010
230VAC LISN ASSET 1492	10kHz-50MHz	9252-50-R-24-BNC	SOLAR	084713	1492	I	23-MAR-2010
230VAC LISN ASSET 1493	10kHz-50MHz	9252-50-R-24-BNC	SOLAR	084714	1493	I	23-MAR-2010
230VAC LISN ASSET 1494	10kHz-50MHz	9252-50-R-24-BNC	SOLAR	084715	1494	I	23-MAR-2010
230VAC LISN ASSET 1495	10kHz-50MHz	9252-50-R-24-BNC	SOLAR	084716	1495	I	23-MAR-2010
BLUE MONITORING PROBE	10kHz -150MHz	91550-2	TEGAM	12350	00807	I	27-MAY-2010
YELLOW MONITORING PROBE	10kHz -150MHz	91550-2	ETS	50972	00493	I	29-JAN-2010
BROWN MONITORING PROBE	10kHz -250MHz	F-33-1	FISCHER	425	1110	I	23-JAN-2010
WHITE MONITORING PROBE	10kHz -250MHz	CSP-8423-1	SCHAFFNER	510	1112	I	23-JAN-2010
GREEN CURRENT TRANSFORMER	40Hz-20MHz	150	PEARSON	10226	00793	I	06-MAY-2011
SURGE CURRENT PROBE	NA	CM-1-L	ION PHYSICS	896730	1265	I	08-OCT-2010
SURGE CURRENT PROBE	NA	CM-1-L	ION PHYSICS	NA	1276	I	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	06-OCT-2010
CISPR 22 2 PAIR TELCO ISN	9kHz-30MHz	FCC-TLISN-T4	FISCHER	20115	00746	I	14-JAN-2011
CISPR 22 4 PAIR TELCO ISN	150kHz-30MHz	FCC-TLISN-T8-02-09	FISCHER	091109	1524	I	28-JUL-2011

RADIATED EMISSIONS SITES	FCC CODE	IC CODE	VCCI CODE	CAT	CALIBRATION DUE
SITE F OATS	93448	2762B-2	R-1688	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 CHAMBER 1	719150	2762A-6	R-3032	I	15-FEB-2011
EMI CHAMBER 2	719150	2762A-7	R-3033	I	15-FEB-2011

CONDUCTED TEST SITES (MAINS / TELCO)	FCC CODE	VCCI CODE	CAT	CALIBRATION DUE
EMI 1	93448	C-1801, T-268	III	NA
EMI 2	93448	C-1802, T-269	III	NA
EMI 3	93448	C-1803, T-270	III	NA



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EMI 4	93448	C-3013, T-391	III	NA
CEMI 1	719150	C-3360, T-1575	III	NA
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	III	NA

MIXERS/DIPLEXERS	RANGE	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
MIXER / HORN	26.5-40 GHz	11970A/28-442-6	HP/ATM	2332A01695/A046903-01	1087	I	01-NOV-2009
MIXER / HORN	26.5-40 GHz	11970A/28-442-6	HP/ATM	3003A07825/A046903-01	1086	I	08-OCT-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	I	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	I	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	I	17-AUG-2011

ABSORBING CLAMPS	RANGE	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
FISCHER CLAMP	30-1000MHz	F-201-23MM	FISCHER	10	00081	I	29-JAN-2010

HARMONIC & FLICKER ANALYZER	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
5001IX AC POWER SYSTEM	5001IX	CI	HK53687	00376	II	08-SEP-2010
5001IX AC POWER SYSTEM	5001IX	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	CAT	CALIBRATION DUE
RED	0.009-2000MHz	ZFL-1000-LN	CS	N/A	00798	II	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	II	07-APR-2010
BLACK	0.009-2000MHz	ZFL-1000-LN	CS	N/A	00799	II	07-JAN-2010
ORANGE	0.009-2000MHz	ZFL-1000-LN	CS	N/A	00765	II	19-DEC-2009
RED-WHITE	0.009-2000MHz	ZFL-1000-LN	CS	N/A	1258	II	07-APR-2010
WHITE	1-18GHz	SMC-12A	CS	426643	00760	II	OUT OF SERVICE
BROWN (OLD)	1-20GHz	PM2-38-218-4R5-17-15-SFF	CS	PL1655	1132	II	OUT OF SERVICE
BROWN	1-18GHz	CS	CS	N/A	1523	II	17-JUL-2010
1517 HF PREAMP	1-18GHz	CS	CS	N/A	1517	II	29-MAY-2010
RED-GREEN	1-20GHz	PM2-38-218-4R5-17-15-SFF	CS	N/A	1256	II	18-AUG-2009
RED-BLUE	1-20GHz	PE2-38-218-4R5-17-15-SFF	CS	NA	1257	II	08-MAY-2010
HF (YELLOW)	18-26.5GHz	AFS4-18002650-60-8P-4	CS	467559	1266	I	05-OCT-2010
HIGH PASS FILTER	0.03-20 GHz	SPA-F-55204	K&L	36	00817	II	08-JAN-2010
LOW PASS FILTER	0.03-18 GHz	11SL10-4100/X4400-O/O	K&L	4	00816	II	08-JAN-2010
HIGH PASS FILTER	0.03-6.5 GHz	11SH10-1000/T3000-O/O	K&L	1	1310	II	08-JAN-2010
HIGH PASS FILTER	0.03-14.5 GHz	11SH10-3000/T9000-O/O	K&L	1	1311	II	08-JAN-2010
HIGH PASS FILTER	0.03-8 GHz	VHP-19	MINI-CIRCUITS	NA	1287	II	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	PASTERNAK	01	00791	II	08-MAY-2011
HF 30dB 50W ATTENUATOR	0.009-18 GHz	PE 7019-30	PASTERNAK	02	1168	II	08-MAY-2011
HF 40dB 50W ATTENUATOR	0.009-18 GHz	PE 7017-40	PASTERNAK	NA	1513	II	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	II	08-MAY-2011
50W HF DIRECT. COUPLER	1-20GHz	DC7420	AR	0325960	1307	II	06-NOV-2009
500W DIRECT. COUPLER	0.009-2000MHz	C6277-10	WERLATONE	41911	1264	II	03-DEC-2009
200W DIRECT. COUPLER	0.009-2000MHz	C5571-10	WERLATONE	23098	1185	II	03-DEC-2009

ANTENNAS	RANGE	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
GREEN BILOG	30-2000MHz	CBL6112B	CHASE	2742	00620	I	17-DEC-2010
GREEN-BLACK BILOG	30-2000MHz	CBL6112B	CHASE	2412	00127	I	OUT OF SERVICE
GREEN-RED BILOG	30-2000MHz	CBL6112B	CHASE	2435	00990	I	22-APR-2010
BLUE BILOG	30-1000MHz	3143	EMCO	1271	00803	II	OUT OF CAL
GRAY BILOG	20-2000MHz	3141	EMCO	9703-1038	00066	II	20-MAR-2010
YELLOW-BLACK BILOG	20-2000MHz	CBL6140A	CHASE	1112	00126	II	OUT OF CAL



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RED-WHITE BILOG	30-2000MHZ	JB1	SUNOL	A091604-1	01105	I	17 DEC-2010
RED-BLACK BILOG	30-2000MHZ	JB1	SUNOL	A091604-2	01106	I	28-OCT-2010
RED-BROWN BILOG	30-2000MHZ	JB1	SUNOL	A0032406	1218	I	11-AUG-2010
YELLOW HORN	1-18GHZ	3115	EMCO	9608-4898	00037	I	27-MAY-2011
BLACK HORN	1-18GHZ	3115	EMCO	9703-5148	00056	I	06-JUL-2011
ORANGE HORN	1-18GHZ	3115	EMCO	0004-6123	00390	I	19-JUN-2011
RED HORN	1-10GHZ	3115	EMCO		RENTAL	II	21-APR-10(NEBS) / 19-MAY-10 (EU RFI-HIGH)
HF (WHITE) HORN	18-26.5GHZ	801-WLM	WAVELINE	00758	00758	I	CAL / VERIFY BEFORE USE
SMALL LOOP	10KHZ-30MHZ	PLA-130/A	ARA	1024	00755	I	05-MAR-2010
LARGE LOOP	20HZ-5MHZ	6511	EMCO	9704-1154	00067	I	20-FEB-2010
RENTAL 6509 LOOP	1KHZ-30MHZ	6509	EMCO	1503	RENTAL	I	04-FEB-2010
ACTIVE MONOPOLE	30HZ-30MHZ	3301B	EMCO	3824	00068	II	03-JUN-2010
INDUCTION COIL	50-60HZ	1000-4-8	C-S	N/A	00778	II	08-MAY-2010
INDUCTION COIL	50-60HZ	1000-4-8	C-S	N/A	1314	II	08-MAY-2010
ADJUSTABLE DIPOLE	30-1000MHZ	3121C	EMCO	1370	00757	I	03-DEC-2010
ADJUSTABLE DIPOLE	30-1000MHZ	3121C	EMCO	1371	00756	I	03-DEC-2010
RE101 LOOP SENSOR	30HZ-100KHZ	RE101-13.3CM	C-S	N/A	00818	II	VERIFY BEFORE USE
RS101 RADIATING LOOP	30HZ-100KHZ	RS101-12CM	C-S	N/A	00819	II	VERIFY BEFORE USE
RS101 LOOP SENSOR	30HZ-100KHZ	RS101-4CM	C-S	N/A	00820	II	VERIFY BEFORE USE
EMI CHAMBER BILOG	26MHZ-6GHZ	3142D	ETS	00102060	1503	I	17-MAR-2011
EMI CHAMBER BILOG	26MHZ-6GHZ	3142D	ETS	00102052	1504	I	17-MAR-2011

EFT	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
CAS 3025 BURST	INA 265A/266	SCHAFFNER	20096	00947	II	31-JUL-2010
VERIFICATION ATTENUATORS						
EFT DIRECT COUPLING CAP	N/A	C-S	01	00794	II	08-OCT-2010
MODULA6150	MODULA6150	TESEQ	34525	1268	I	24-NOV-2009
RED BESTEMC-2	711-1100	SCHAFFNER	200122-074SC	00623	I	04-SEP-2010
EMCPRO PLUS	EMCPRO PLUS	KEYTEK	0811212	RENTAL	II	27-JUL-2010

ESD GENERATORS	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
GREEN	NSG435	SCHAFFNER	000839	00763	I	18-DEC-2009
RED	NSG435	SCHAFFNER	001625	00762	I	27-MAR-2010
YELLOW	930D	ETS	201	00673	I	27-SEP-2009

DIPS AND INTERRUPTS	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
MODULA6150	MODULA6150	TESEQ	34525	1268	I	24-NOV-2009
INA 6502 AUTOMATIC STEPTRANSFORMER	INA 6502	TESEQ	105	1269	I	13-FEB-2010
RED BESTEMC-2	711-1100	SCHAFFNER	200122-074SC	00623	I	04-SEP-2010
ECOMPACT4	ECOMPACT4	HAEFELY	155858	RENTAL	II	OUT OF SERVICE
EMCPRO PLUS	EMCPRO PLUS	KEYTEK	0811212	RENTAL	II	28-JUL-2010

CHAMBERS AND STRIPLINE	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
RFI CHAMBER 1	3 METER COMPACT	PANASHIELD	N/A	00797	II	08-APR-2010
RFI CHAMBER 2	04' x 07' SHIELDING SYSTEM	LINDGREN	13329	00795	II	05-JAN-2010
RFI 3 STRIPLINE	N/A	C-S	N/A	00796	III	FEEDBACK ONLY
ENVIRONMENTAL (SAFETY)	ECL5	B-M-A INC.	2041	00029	I	23-APR-2010
ENVIRONMENTAL (SAFETY)	SGTH-31S	B-M-A INC.	2245	00321	I	23-APR-2010

AMPLIFIERS	RANGE	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
RED	0.5-1000MHZ	10W1000B	AR	18708	00032	II	17-MAR-2010 (RTCA BLUE CLAMP)
GREEN	0.5-1000MHZ	10W1000B	AR	23423	00123	II	13-MAR-2010 (RFI1)
BLUE	0.01-100MHZ	75A250	AR	19165	00039	II	08-JUN-10 (NEBS CRFI) / 09-JUN-2010 (EU CRFI)
BLACK	0.01-100MHZ	75A250	AR	23411	00122	II	08-JUN-10 (NEBS CRFI) / 09-JUN-2010 (EU CRFI)
ORANGE	0.01-100MHZ	75A250	AR	26827	00367	II	08-JUN-10 (NEBS CRFI) / 09-JUN-2010 (EU CRFI)
BROWN 150W	0.1-250MHZ	150A250	AR	313454	1255	II	OUT OF CAL / FEEDBACK ONLY
YELLOW 150W	80-1000MHZ	150W1000	AR	0324607	1253	II	14-MAR-2010 (RFI1) / 05-JAN-2010 (RFI2)
500W AMP	0.1-250MHZ	500A250	AR	0326385	1297	II	20-MAR-2010 (RFI1) / 05-JAN-2010 (RFI2)
GTC 1-2.6	1.0-2.6 GHZ	GRF5016A	GTC	1221	RENTAL	II	21-APR-2010(NEBS RFI-HIGH) / 19-MAY-2010 (EU RFI-HIGH)
HUGHES 10W	2.0-4.0GHZ	1177H01	HUGHES	055	RENTAL	II	21-APR-2010(NEBS RFI-HIGH) / 19-MAY-2010 (EU RFI-HIGH)
HUGHES 10W	4.0-8.0 GHZ	8010H02F	HUGHES	197	RENTAL	II	21-APR-2010(NEBS RFI-HIGH) / 19-MAY-2010 (EU RFI-HIGH)
HUGHES 10W	8-10.0GHZ	80108	HUGHES	138	RENTAL	II	21-APR-2010(NEBS RFI-HIGH) / 19-MAY-2010 (EU RFI-HIGH)
HP495A	7.0-10.0GHZ	HP495A	HP	304-00237	00086	II	OUT OF SERVICE (SPARE)
AUDIO AMP	AUDIO FREQ	MPA-200	RADIO SHACK	700438	NONE	III	NA
AUDIO AMP	AUDIO FREQ	MPA-200	RADIO SHACK	708545	00862	III	NA



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FIELD PROBES	RANGE	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
RED	0.01-1000MHz	HI-4422	HOLADAY	90369	00031	I	26-APR-2010
GREEN	0.01-1000MHz	HI-4422	HOLADAY	97363	00136	I	03-DEC-2009
BLUE	0.01-1000MHz	HI-4422	HOLADAY	95696	01100	I	17-APR-2010
Reference Laser Field Probe	0.1-6000MHz	FL7006 Star Probe	AR	321700	1252	I	31-JAN-2010
MICROWAVE SURVEY METER	2450MHz	HI-1501	HOLADAY	00075464	1244	I	Calibrate Before Use
GAUSSMETER (ELF METER)	25Hz-1kHz	4080	SYPRIS	114173	1305	I	28-MAY-2010

SIGNAL GENERATORS	RANGE	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
RED	0.09-2000MHz	HP8648B	Agilent	3847U02192	00366	I	29-MAY-2010
BLUE	0.1-1000MHz	HP8648A	Agilent	3426A00548	00034	I	01-OCT-2009
GREEN	0.09-2000MHz	HP8648B	Agilent	3623A02072	00125	I	24-OCT-2009
ORANGE	0.1-1000MHz	HP8648B	Agilent	3537A01210	00025	I	25-JUN-2010
WHITE	0.01Hz-15MHz	HP33120A	Agilent	US36048143	1219	I	27-MAY-2010
BROWN-WHITE	0.01Hz-15MHz	HP33120A	Agilent	SG40019842	1232	I	17-DEC-2009
BLUE-WHITE	0.1Hz-13MHz	HP3312A	Agilent	1432A07632	00775	I	06-MAY-2010
RFI-HIGH SWEEPER	0.01-20.0GHz	HP83752A	Agilent	3610A01133	00087	I	06-JUL-2010
SWEEPER	0.01-20.0GHz	HP83752A	Agilent	3610A01072	RENTAL	I	01-JUN-2010
REFERENCE SWEEPER	0.01-26.5GHz	HP8673D	Agilent	3146A01212	1317	I	24-JUN-2010
AM/FM STEREO SIG. GEN.	0.1-170MHz	LG3236	LEADER	3687301	00959	I	Cal Before Use
IMPULSE GENERATOR	1-100Hz	CIG-25	ELECTRO-METRICS	290	00942	I	Cal Before Use

BULK INJECTION CLAMPS	RANGE	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
GREEN (NEBS CRFI)	0.01-30MHz	95236-1	ETS	50215	00118	II	08-JUN-10 (BLUE, BLACK & ORANGE AMP)
GREEN (EU CRFI)	0.10-100MHz	95236-1	ETS	50215	00118	II	08-JUN-10 (BLUE, BLACK & ORANGE AMP)
RED (NEBS CRFI)	0.01-30MHz	95236-1	ETS	34026	1020	II	08-JUN-10 (BLUE, BLACK & ORANGE AMP)
RED (EU CRFI)	0.10-100MHz	95236-1	ETS	34026	1020	II	08-JUN-10 (BLUE, BLACK & ORANGE AMP)
RED (RTCA/DO-160E)	0.01-2MHz	95236-1	ETS	34026	1020	II	17-APR-2010 (BLACK)
BLUE (RTCA/DO-160E)	2-450MHz	9142-1N	SOLAR	063824	1237	II	17-APR-2010 (RED)

ANSI T1.315	MFR	ASSET	CAT	CALIBRATION DUE
SBC NOISE CART	C-S	1285	III	CALIBRATION NOT REQUIRED
SBC TRANSIENT CART	C-S	1286	III	WAVESHAPE VERIFIED BEFORE USE

OSCILLOSCOPES AND PROBES	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
EMC 100MHz	TDS 220	TEKTRONIX	C036986	1166	I	18-MAY-2010
ESD REFERENCE 1GHz	TDS 684B	TEKTRONIX	B011287	RENTAL	I	18-MAY-2010
400MHz E*SCOPE	TDS 3044B	TEKTRONIX	C010074	1275	I	18-FEB-2010
PRODUCT SAFETY 100 MHz	TDS 340	TEKTRONIX	B012357	00737	I	17-OCT-2009
DIFFERENTIAL PROBE	4222	PROBEMASTER	07-134	1296	I	30-SEP-2010
500MHz 10x PROBE	P6139A	TEKTRONIX	NA	1280	I	22-JUL-2011
500MHz 10x PROBE	P6139A	TEKTRONIX	NA	1281	I	22-JUL-2011
REFERENCE 500MHz 10x PROBE	P6139A	TEKTRONIX	NA	1282	I	22-JUL-2011
REFERENCE 500MHz 10x PROBE	P6139A	TEKTRONIX	NA	1319	I	22-JUL-2011
500MHz 10x PROBE	P6139A	TEKTRONIX	NA	1283	I	22-JUL-2011
REFERENCE HV 1000x PROBE	P6015A	TEKTRONIX	B056555	1277	I	18-MAY-2010
REFERENCE HV 1000x PROBE	P6015A	TEKTRONIX	B056590	1278	I	18-MAY-2010
HV 1000x PROBE	P6015A	TEKTRONIX	B053297	RENTAL	I	27-MAY-2010
HV 1000x PROBE	P6015A	TEKTRONIX	B045382	RENTAL	I	27-MAY-2010

CDN NETWORKS	RANGE	MN	MFR	ASSET	CAT	CALIBRATION DUE
BLUE	0.10-100MHz	20A M-3	C-S	00806	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
RED	0.10-100MHz	15A M-3	C-S	00780	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
YELLOW-BLACK	0.10-100MHz	15A M-3	C-S	00784	II	OUT OF SERVICE
GREEN	0.10-100MHz	30A M-3	C-S	00779	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
YELLOW	0.10-100MHz	30A M-5	C-S	00804	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
PURPLE	0.10-100MHz	30A M-4	C-S	1321	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
BROWN	0.10-100MHz	M-3	C-S	1169	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
BROWN-WHITE	0.10-100MHz	M-3	C-S	1170	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
BROWN-BLACK	0.10-100MHz	M-2 (DC)	C-S	1171	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
RED-BLACK	0.10-100MHz	M-2 (DC)	C-S	1177	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
GREEN-WHITE	0.10-100MHz	M-2 (DC)	C-S	1259	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
YELLOW (RES)	0.10-100MHz	100Ω RESISTOR	C-S	00810	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
GREEN (RES)	0.10-100MHz	100Ω RESISTOR	C-S	1172	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
ARTIFICIAL HAND	510Ω / 220PF	CS-AH	C-S	1262	II	10-JUL-2010
ARTIFICIAL HAND	510Ω / 220PF	CS-AH	C-S	1263	II	10-JUL-2010



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RMS VOLTMETERS/CURRENT CLAMP	MN	MNFR	SN	ASSET	CAT	CALIBRATION DUE
TRUE-RMS MULTIMETER (REFERENCE)	79III	FLUKE	71700298	00769	I	02-APR-2010
TRUE RMS MULTIMETER	179	FLUKE	89280616	1228	I	29-SEP-2009
TRUE-RMS MULTIMETER	177	FLUKE	83390024	00973	I	OUT OF CAL
TRUE-RMS MULTIMETER	177	FLUKE	83390025	00974	I	11-MAR-2010
TRUE-RMS MULTIMETER (D RAND)	177	FLUKE	91320460	1226	I	03-APR-2010
TRUE-RMS MULTIMETER	177	FLUKE	83430419	00975	I	OUT OF CAL
TRUE RMS MULTIMETER	87III	FLUKE	70920208	00828	I	02-APR-2010
AC/DC CURRENT PROBE	A622	TEKTRONIX	08DD 6275Dv	1246	I	03-APR-2010
CURRENT SHUNT	200A50MV	SIMPSON	NA	1290	I	25-AUG-2010
BENCHTOP DMM	34401A	HP	3146A69358	552	I	05-JUN-2010
BENCHTOP DMM	34401A	HP	3146A69272	553	I	05-JUN-2010

POWER/NOISE METERS	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
POWER METER	437B	HP	2912A01367	01099	I	06-MAY-2010
POWER SENSOR	8481A	HP	2702A61351	00774	I	06-MAY-2010
POWER METER	4232A	BOONTON	11000	1260	I	01-SEP-2010
POWER SENSOR	51013-4E	BOONTON	34457	1261	I	01-SEP-2010
PSOPHOMETER	2429	BRUEL & KJAER	1237642	00585	II	04-JUN-2011
TRANSMISSION LINE TESTER (dBRNC)	185T	AMREL	18507030010	1236	II	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	I	04-SEP-2011
CURRENT CLAMP FOR NANOVIP	MN 13-EL	ELCONTROL ENERGY	NA	1293	I	04-SEP-2011

TAPE MEASURES	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
DIPOLE 26FT TAPE #1	2338CME	LUFKIN	C3166-1	00776	II	12-MAY-2011
DIPOLE 26FT TAPE #2	2338CME	LUFKIN	C3166-2	00777	II	12-MAY-2011
25FT/7.5M TAPE	4925IM	KOMELON	NA	1502	II	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	CAT	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	1.2x50uS PLUGIN	CDI	N/A	00842	II	CAL BEFORE USE
10x160uS PLUGIN MODULE	10x160uS PLUGIN	C-S	N/A	00843	II	CAL BEFORE USE
10x560uS PLUGIN MODULE	10x560uS PLUGIN	C-S	N/A	00841	II	CAL BEFORE USE
PSURGE CONTROLLER MODULE	PSURGE 8000	HAEFELY	150267	00879	II	CAL BEFORE USE
COUPLING/DECOUPLING MODULE	PCD 900	HAEFELY	149213	00880	II	CAL BEFORE USE
IMPULSE MODULE	PIM 900	HAEFELY	149202	00881	II	CAL BEFORE USE
HIGH VOLTAGE CAP NWK 5kVDC, 18uF	CS-HVCC	C-S	01	00772	II	12-JUN-2010
NEBS SURGE GENERATOR (LIMITED CAL)	N/A	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	C-S	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 S2	EMTEST	V0502100032	1155	II	CAL BEFORE USE
TSS 500-M (10x700uS)	TSS500 M10	EMTEST	V0502100031	1156	II	20-AUG-2010
NSG 2050 SURGE GENERATOR	NSG 2050	TESEQ	200720-605LU	1273	I	18-MAY-2010
PNW 2050 1.2x50 IMPULSE NETWORK	PNW 2050	TESEQ	200711-604LU	1279	I	18-MAY-2010
CDN 133 3 PHASE COUPLING NETWORK	CDN 133	TESEQ	34416	1274	I	18-MAY-2010
MODULA6150	MODULA6150	TESEQ	34525	1268	I	24-NOV-2009
RED BEST EMC-2	711-1100	SCHAFFNER	200122-074SC	00623	I	04-SEP-2010
ECOMPACT4	ECOMPACT4	HAEFELY	155858	RENTAL	II	OUT OF SERVICE
EMCPRO PLUS - 1.2x50uS	EMCPRO PLUS	KEYTEK	0811212	RENTAL	II	06-AUG-2010
EMCPRO PLUS - RINGWAVE	EMCPRO PLUS	KEYTEK	0811212	RENTAL	II	24-JUL-2010

METEOROLOGICAL METERS	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
TEMP./HUMIDITY/ATM. PRESSURE GAUGE	7400 PERCEPTION II	DAVIS	N/A	00965	I	06-APR-2011
TEMPERATURE /HUMIDITY GAUGE	THG-912	HUGER	4000562	00789	I	17-MAR-2011
WEATHER CLOCK (PRESSURE ONLY)	BA928	OREGON SCIENTIFIC	C3166-1	00831	I	17-MAR-2011
CEMI2 THERMOHYGROMETER	35519-044	CONTROL COMPANY	72436083	1336	II	18-AUG-2011
THERMOHYGROMETER	35519-044	CONTROL COMPANY	72457628	1337	II	OUT OF CAL
CEMI3 THERMOHYGROMETER	35519-044	CONTROL COMPANY	72457729	1338	II	18-AUG-2011
CEMI4 THERMOHYGROMETER	35519-044	CONTROL COMPANY	72457728	1339	II	18-AUG-2011
THERMOHYGROMETER	35519-044	CONTROL COMPANY	72457719	1340	II	OUT OF CAL



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CEMI5 THERMOHYGROMETER	35519-044	CONTROL COMPANY	72457633	1341	II	18-AUG-2011
THERMOHYGROMETER	35519-044	CONTROL COMPANY	72457631	1342	II	OUT OF CAL
THERMOHYGROMETER (TEMP ONLY)	35519-044	CONTROL COMPANY	72457758	1343	II	11-AUG-2011
CEMI6 THERMOHYGROMETER	35519-044	CONTROL COMPANY	72457730	1344	II	18-AUG-2011
1DCC-OATS-3M-I THERMOHYGROMETER	35519-044	CONTROL COMPANY	72457635	1334	II	18-AUG-2011
CEMI1 THERMOHYGROMETER	35519-044	CONTROL COMPANY	72457738	1335	II	18-AUG-2011
CHAMBER1 THERMOHYGROMETER	35519-044	CONTROL COMPANY	72457642	1345	II	18-AUG-2011
THERMOHYGROMETER	35519-044	CONTROL COMPANY	72457636	1346	II	OUT OF CAL
CHAMBER2 THERMOHYGROMETER	35519-044	CONTROL COMPANY	72457639	1347	II	18-AUG-2011
EMC1 THERMOHYGROMETER	35519-044	CONTROL COMPANY	72457647	1348	II	18-AUG-2011
EMC2 THERMOHYGROMETER	35519-044	CONTROL COMPANY	72457653	1352	II	18-AUG-2011
EMC3 THERMOHYGROMETER	35519-044	CONTROL COMPANY	72457727	1353	II	18-AUG-2011
EMC4 THERMOHYGROMETER	35519-044	CONTROL COMPANY	90823028	1496	II	20-MAR-2011
EMC5 THERMOHYGROMETER	35519-044	CONTROL COMPANY	90823030	1497	II	20-MAR-2011
OV THERMOHYGROMETER	35519-044	CONTROL COMPANY	90823031	1498	II	20-MAR-2011
RFI1 THERMOHYGROMETER	35519-044	CONTROL COMPANY	90823034	1499	II	20-MAR-2011
RFI3 (STRIPLINE) THERMOHYGROMETER	35519-044	CONTROL COMPANY	90823035	1500	II	20-MAR-2011
REFERENCE THERMOHYGROMETER	35519-044	CONTROL COMPANY	90823036	1501	II	20-MAR-2011
THERMOCOUPLE MODULE (FOR DMM)	80TK	FLUKE	93410013	1308	I	08-DEC-2010
THERMOCOUPLE MODULE (FOR DMM)	80TK	FLUKE	93410017	1309	I	08-DEC-2010

OVERVOLTAGE CHAMBERS	MN	MFR	SN	ASSET	CAT	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	SPEC.	MFR	STOCK/MN	ASSET	CAT	CALIBRATION DUE
NEBS CHEESE CLOTH	26-28M/KG	ED&D	ACC-01	N/A	III	N/A
NEBS CARBON BLOCK	3-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.



Product Documentation

The following documentation has been provided by the client for inclusion in this report.



Curtis-Straus LLC, a wholly owned subsidiary of BV CPS
One Distribution Center Circle, #1 • Littleton, MA • TEL (978) 486-8880 • FAX (978) 486-8828



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 where 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.



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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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