Eventbrite, Inc.

TEST REPORT FOR

RFID Scanner
Model: Centauri

Tested To The Following Standards:

FCC Part 15 Subpart C Section(s)

15.207 & 15.225 (13.110-14.010 MHz)

Report No.: 97859-6

Date of issue: March 21, 2016



This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of EMC testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

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TABLE OF CONTENTS

Administrative Information	3
Test Report Information	3
Report Authorization	3
Test Facility Information	4
Software Versions	4
Site Registration & Accreditation Information	4
Summary of Results	5
Modifications During Testing	5
Conditions During Testing	5
Equipment Under Test	6
General Product Information	6
FCC Part 15 Subpart C	7
15.215(c) Occupied Bandwidth (20dB BW)	7
15.225(a)-(c) Field Strength of Fundamental	10
15.225(e) Frequency Stability	14
15.225(d) Radiated Emissions & Band Edge	16
15.207 AC Conducted Emissions	26
Appendix A: Modifications Made During Testing	45
Supplemental Information	46
Measurement Uncertainty	46
Emissions Tost Datails	46



ADMINISTRATIVE INFORMATION

Test Report Information

REPORT PREPARED FOR: REPORT PREPARED BY:

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155 5th St. Floor 7 CKC Laboratories, Inc.
San Francisco, CA 94103 5046 Sierra Pines Drive
Mariposa, CA 95338

Representative: Mourad Dendane Project Number: 97859

Customer Reference Number: 1257

DATE OF EQUIPMENT RECEIPT:

DATE(S) OF TESTING:

January 11, 2016

January 11-13 and
February 10-11, 2016

Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the sample equipment tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.

Steve Behm

Director of Quality Assurance & Engineering Services CKC Laboratories, Inc.



Test Facility Information



Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

TEST LOCATION(S): CKC Laboratories, Inc. 5046 Sierra Pines Drive Mariposa, CA 95338

Software Versions

CKC Laboratories Proprietary Software	Version	
EMITest Emissions	5.03.00	

Site Registration & Accreditation Information

Location	CB#	TAIWAN	CANADA	FCC	JAPAN
Mariposa A	US0103	SL2-IN-E-1147R	3082A-2	90477	A-0136
Mariposa D	US0103	SL2-IN-E-1147R	3082A-1	784962	A-0136



SUMMARY OF RESULTS

Standard / Specification: FCC Part 15 Subpart C - 15.225

Test Procedure	Description	Modifications	Results
15.215(c)	Occupied Bandwidth	Mod. #1	Pass
15.225(a)-(c)	Field Strength of Fundamental	Mod. #1	Pass
15.225(e)	Frequency Stability	Mod. #1	Pass
15.225(d)	Field Strength of Spurious Emissions	Mod. #1	Pass
15.207	AC Conducted Emissions	Mod. #1	Pass

Modifications During Testing

This list is a summary of the modifications made to the equipment during testing.

Summary of Conditions

Modification #1: Installed a jumper on the transmitter PCB to establish a reference to chassis ground.

Modifications listed above must be incorporated into all production units.

Conditions During Testing

This list is a summary of the conditions noted to the equipment during testing.

Summary of Conditions		
None		
	•	

Page 5 of 47 Report No.: 97859-6



EQUIPMENT UNDER TEST (EUT)

During testing numerous configurations may have been utilized. The configurations listed below support compliance to the standard(s) listed in the Summary of Results section.

Configuration 1

Equipment Tested:

Device	Manufacturer	Model #	S/N
RFID Scanner	Eventbrite, Inc.	Centauri	EVB-01040115290019

Support Equipment:

Device	Manufacturer	Model #	S/N
POE	Ubiquiti Networks, Inc.	TOUGHSwitch PoE PRO	1451G0418D6078DF

General Product Information:

Product Information	Manufacturer-Provided Details
Equipment Type:	Stand-Alone Equipment
Modulation Type(s):	A1D
Maximum Duty Cycle:	20%
Antenna Type(s) and Gain:	Loop, 2dBi
Antenna Connection Type:	Integral
Nominal Input Voltage:	120 /60Hz POE
Firmware / Software used for Test:	Proxima-client 2.0.0

Page 6 of 47 Report No.: 97859-6



FCC Part 15 Subpart C

15.215(c) Occupied Bandwidth (20dB BW)

Test Setup/Conditions				
Test Location:	Mariposa Lab A	Test Engineer:	Chuck Kendall	
Test Method:	ANSI C63.10 (2013)	Test Date(s):	1/13/2016	
Configuration:	1			
Test Setup:	0			
Modification:	Modification #1 was in place durir	ng testing		

Environmental Conditions				
Temperature (°C)	20	Relative Humidity (%):	44	

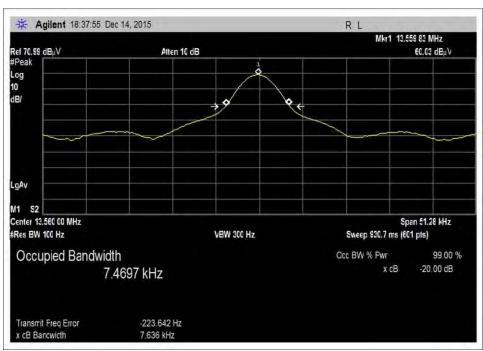
Test Equipment							
Asset#	Description	Manufacturer	Model	Cal Date	Cal Due		
02111	Spectrum Analyzer	НР	8593EM	6/4/2015	6/4/2016		
00226	Loop Antenna	EMCO	6502	3/28/2014	3/28/2016		
P06232	Cable	Andrew	CXTA04A-35	9/5/2014	9/5/2016		

Page 7 of 47 Report No.: 97859-6



Test Data Summary					
Frequency (MHz)	Antenna Port	Modulation	Measured (kHz)	Limit (kHz)	Results
13.56	Field Strength	A1D	7.636	Within Emissions Mask	Pass

Plot



Note: The timestamp on the above plot is incorrect – data taken day of testing 1/13/2016.



Test Setup Photo





15.225(a)-(c) Field Strength of Fundamental

Test Setup/Conditions						
Test Location:	Mariposa Lab A	Test Engineer:	Chuck Kendall			
Test Method:	ANSI C63.4 (2013)	Test Date(s):	1/11/2016			
Configuration:	1					
Test Setup:	The EUT is set up at 3m and is 0.8 meter above a ground plane. It is transmitting in normal mode of operation. The POE is in the control room during testing.					
Modification:	Modification #1 was in place durir	ng testing				

Environmental Conditions					
Temperature (°C)	20	Relative Humidity (%):	44		

Test Equipment								
Asset# Description Manufacturer Model Cal Date Cal Due								
02111	Spectrum Analyzer	НР	8593EM	6/4/2015	6/4/2016			
00226	Loop Antenna	EMCO	6502	3/28/2014	3/28/2016			
P06232	Cable	Andrew	CXTA04A-35	9/5/2014	9/5/2016			

Test Data Summary - Voltage Variations								
Frequency (MHz)	Modulation / Ant Port	V _{Minimum} (dBuV/m@30m)	V _{Nominal} (dBuV/m@30m)	V _{Maximum} (dBuV/m@30m)	Max Deviation from V _{Nominal} (dB)			
13.56	A1D/Field Strength	36.9	36.9	36.9	0			

Test performed using operational mode with the highest output power, representing worst case.

Parameter Definitions:

Measurements performed at input voltage Vnominal ± 15%.

Parameter	Value
V _{Nominal} :	48.0 VDC
V _{Minimum} :	40.8 VDC
V _{Maximum} :	55.2 VDC

Test Data Summary – Radiated Field Strength Measurement						
Frequency (MHz)	' ' Modulation Ant. Type		Measured (dBuV/m @ 30m)	Limit (dBuV/m @ 30m)	Results	
13.56	A1D	Integral	36.9	≤84	Pass	

Page 10 of 47 Report No.: 97859-6



Test Data

Test Location: CKC Laboratories, Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: **Eventbrite, Inc.**

Specification: 15.225 Fundamental Field Strength

Work Order #: 97859 Date: 2/10/2016
Test Type: Maximized Emissions Time: 14:14:31
Tested By: Chuck Kendall Sequence#: 2

Software: EMITest 5.03.00

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N	
Configuration 1				

Test Conditions / Notes:

ANSI C63.10 2013

The EUT is set up at 3m and is 0.8 meter above a ground plane. It is transmitting in normal mode of operation. EUT was placed in the vertical and horizontal positions to determine the worst case emissions.

The POE is beneath the ground plane during this testing.

Frequencies of Interest: 13.110-14.010 MHz

RBW=9 kHz; VBW=30kHz

Highest clock =1 GHz

Environmental Conditions: Temperature = 20°C Relative Humidity = 44%

Atmospheric Pressure = 97.6 kPa

Modification #1 was in place during testing.

Page 11 of 47 Report No.: 97859-6



Test Equipment:

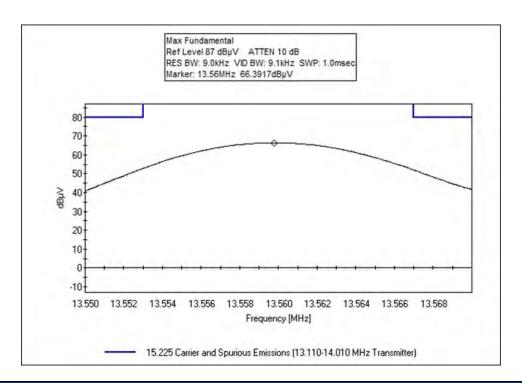
ID	Asset #/Serial #	Description	Model	Calibration Date	Cal Due Date
T1	AN02668	Spectrum Analyzer	E4446A	8/14/2015	8/14/2016
T2	AN00226	Loop Antenna	6502	3/28/2014	3/28/2016
T3	ANP06232	Cable	CXTA04A-35	9/5/2014	9/5/2016
T4	ANSITED 3M	Cable		11/15/2014	11/15/2016
T5	ANP06885	Cable	P06885	10/27/2015	10/27/2017

Measur	Measurement Data: Reading listed			ted by ma	argin.		Te	est Distanc	e: 3 Meters	1	
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5								
	MHz	$dB\mu V$	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	13.560M	66.4	+0.0	+9.7	+0.0	+0.7	-40.0	36.9	84.0	-47.1	Vert
			+0.1						loop anten	na almost	
									parallel to	the back	
									side of the	EUT	
2	13.560M	59.7	+0.0	+9.7	+0.3	+0.0	-40.0	29.7	84.0	-54.3	Vert
			+0.0						loop anten	na is	
									perpendicu	ılar to	
									EUT		
3	13.560M	53.0	+0.0	+9.7	+0.3	+0.0	-40.0	23.0	84.0	-61.0	Vert
			+0.0						Loop anter	nna &	
									EUT are pa	arallel to	
									the ground	plane	
4	13.560M	52.0	+0.0	+9.7	+0.3	+0.0	-40.0	22.0	84.0	-62.0	Vert
			+0.0						Loop anter	nna	
									parallel to	the	
									ground pla	ne.	

Page 12 of 47 Report No.: 97859-6



Plot



Test Setup Photo





15.225(e) Frequency Stability

Test Setup/Conditions						
Test Location:	Mariposa Lab A	Test Engineer:	Chuck Kendall			
Test Method:	ANSI C63.4 (2013)	Test Date(s):	1/13/2016			
Configuration:	1					
Test Setup:	t Setup: The EUT is set up at 3m and is 0.8 meter above the ground plane. It is transmitting in normal mode of operation. The POE is in the control room during testing.					
Modification:	n: Modification #1 was in place during testing					

Environmental Conditions					
Temperature (°C)	20	Relative Humidity (%):	44		

	Test Equipment										
Asset#	Description	Manufacturer	Model	Cal Date	Cal Due						
02668	Spectrum Analyzer	Agilent	E4446A	8/14/2015	8/14/2016						
01879	Temperature Chamber	Thermotron	S-1.2 Min.	12/5/2014	12/5/2016						
03197	Multimeter	Extech	MM570A	9/14/2014	9/14/2016						

		Test Da	ta Summary		
Temperature (ºC)	Voltage	Frequency (MHz)	Deviation (%)	Limit (%)	Results
-20	V _{Nominal}	13.559738	0.00193	±0.01	
-10	V _{Nominal}	13.559738	0.00193	±0.01	
0	V _{Nominal}	13.559738	0.00193	±0.01	
10	V _{Nominal}	13.559738	0.00193	±0.01	
20	V _{Minimum}	13.559738	0.00193	±0.01	Pass
20	V _{Nominal}	13.559749	0.00185	±0.01	Pass
20	V _{Maximum}	13.559749	0.00185	±0.01	
30	V _{Nominal}	13.559738	0.00193	±0.01	
40	V _{Nominal}	13.559738	0.00193	±0.01	
50	V _{Nominal}	13.559738	0.00193	±0.01	
Nominal F	requency:	13.560000			

Parameter Definitions:

Measurements performed at input voltage Vnominal ± 15%.

Parameter	Value
V _{Nominal} :	48.0 VDC
V _{Minimum} :	40.8 VDC
V _{Maximum} :	55.2 VDC

Page 14 of 47 Report No.: 97859-6



Test Setup Photo





15.225(d) Radiated Emissions & Band Edge

Test Setup/Conditions

Test Location: CKC Laboratories, Inc. • 5046 Sierra Pines Drive • Mariposa CA • (209) 966-5240

Customer: **Eventbrite, Inc.**

Specification: 15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter)

 Work Order #:
 97859
 Date: 1/11/2016

 Test Type:
 Maximized Emissions
 Time: 14:09:37

Tested By: Chuck Kendall Sequence#: 3
Software: EMITest 5.03.00

Equipment Tested:

Device Manufacturer Model # S/N

Configuration 1

Support Equipment:

Device Manufacturer Model # S/N
Configuration 1

Test Conditions / Notes:

ANSI C63.10 2013

The EUT is set up at 3m and is 0.8 meter above a ground plane. It is transmitting in normal mode of operation.

The POE is beneath the ground plane during this testing.

Frequencies of Interest: 9kHz to 30MHz

From 9kHz to 150: RBW = 200 Hz; VBW = 600 Hz From 150kHz to 30MHz: RBW = 9kHz; VBW = 30kHz

Highest clock =1 GHz

Environmental Conditions:

Temperature = 20°C Relative Humidity = 44%

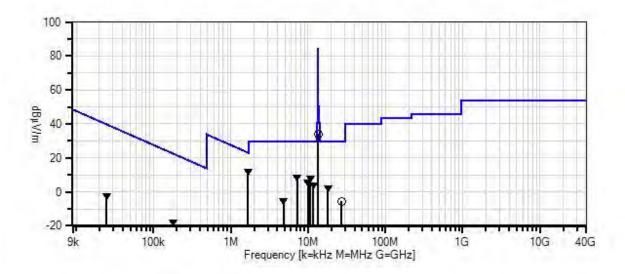
Atmospheric Pressure = 97.6 kPa

Modification #1 was in place during testing.

Page 16 of 47 Report No.: 97859-6



Eventbrite, Inc. WO#: 97859 Sequence#: 3 Date: 1/11/2016 15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter) Test Distance: 3 Meters Vert



- Readings

- Peak Readings
- × QP Readings
- * Average Readings
- ▼ Ambient
 - Software Version: 5.03.00

1 - 15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter)



Test Equipment:

- 4						
	ID	Asset #/Serial #	Description	Model	Calibration Date	Cal Due Date
	T1	AN02668	Spectrum Analyzer	E4446A	8/14/2015	8/14/2016
	T2	AN00226	Loop Antenna	6502	3/28/2014	3/28/2016
	T3	ANP06232	Cable	CXTA04A-35	9/5/2014	9/5/2016

Measi	irement Data:	Re	eading lis	ted by ma	argin.		Тє	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	Т3		Dist	Corr	Spec	Margin	Polar
	MHz	dΒμV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	1.659M	41.6	+0.0	+10.3	+0.1		-40.0	12.0	23.1	-11.1	Vert
	Ambient										
2	7.210M	38.4	+0.0	+10.1	+0.2		-40.0	8.7	29.5	-20.8	Vert
	Ambient										
3	10.714M	38.1	+0.0	+10.0	+0.2		-40.0	8.3	29.5	-21.2	Vert
	Ambient										
4	10.000M	35.5	+0.0	+10.1	+0.2		-40.0	5.8	29.5	-23.7	Vert
	Ambient										
5	11.667M	34.2	+0.0	+9.9	+0.2		-40.0	4.3	29.5	-25.2	Vert
	Ambient										
6	18.115M	33.2	+0.0	+8.7	+0.3		-40.0	2.2	29.5	-27.3	Vert
	Ambient										
7	4.798M	24.5	+0.0	+10.0	+0.2		-40.0	-5.3	29.5	-34.8	Vert
	Ambient										
8	27.120M	26.9	+0.0	+7.2	+0.4		-40.0	-5.6	29.5	-35.1	Vert
9	- , - , , - ,	52.2	+0.0	+10.3	+0.0		-80.0	-17.5	22.5	-40.0	Vert
	Ambient										
10		64.9	+0.0	+13.0	+0.0		-80.0	-2.1	39.7	-41.8	Vert
	Ambient										
11	13.560M	64.1	+0.0	+9.7	+0.3		-40.0	34.1	84.0	-49.9	Vert

Page 18 of 47 Report No.: 97859-6



Test Location: CKC Laboratories, Inc. • 5046 Sierra Pines Drive • Mariposa CA • (209) 966-5240

Customer: **Eventbrite, Inc.**

Specification: 15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter)

 Work Order #:
 97859
 Date:
 1/12/2016

 Test Type:
 Maximized Emissions
 Time:
 12:05:54

Tested By: Chuck Kendall Sequence#: 5

Software: EMITest 5.03.00

Equipment Tested:

Device	Manufacturer	Model #	S/N	
Configuration 1				

Support Equipment:

Device	Manufacturer	Model #	S/N	
Configuration 1				

Test Conditions / Notes:

ANSI C63.10 2013

The EUT is set up at 3m and is 0.8 meter above a 3' diameter flush mounted turntable. It is transmitting in normal mode of operation. The POE is on the test bench.

Frequencies of Interest: 30MHz to 1000MHz

RBW = 120kHz; VBW = 300kHz

Highest clock =1 GHz

Environmental Conditions:

Temperature = 68° F

Relative Humidity = 44%

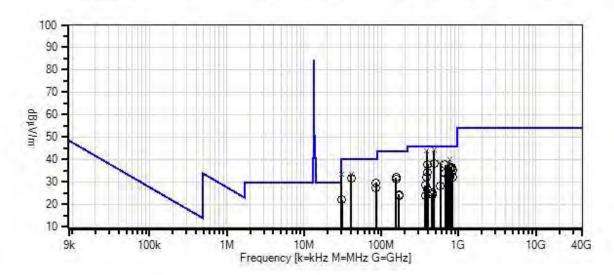
Atmospheric Pressure = 97.6 kPa

Modification #1 was in place during testing.

Page 19 of 47 Report No.: 97859-6



Eventbrite, Inc. WO#: 97859 Sequence#: 5 Date: 1/12/2016 15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter) Test Distance: 3 Meters Horiz



- Readings

- O Peak Readings
- × QP Readings
- * Average Readings
- Ambient

Software Version: 5.03.00

1 - 15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter)



Test Equipment:

ID	Asset #/Serial #	Description	Model	Calibration Date	Cal Due Date
	AN02111	Spectrum Analyzer	8593EM	6/4/2015	6/4/2016
T1	AN00282	Preamp	8447D	4/7/2014	4/7/2016
T2	AN01994	Biconilog Antenna	CBL6111C	3/7/2014	3/7/2016
T3	ANP06884	Cable	LMR195-FR-4	10/27/2015	10/27/2017
T4	ANP06885	Cable	P06885	10/27/2015	10/27/2017
T5	ANSITED 3M	Cable		11/15/2014	11/15/2016

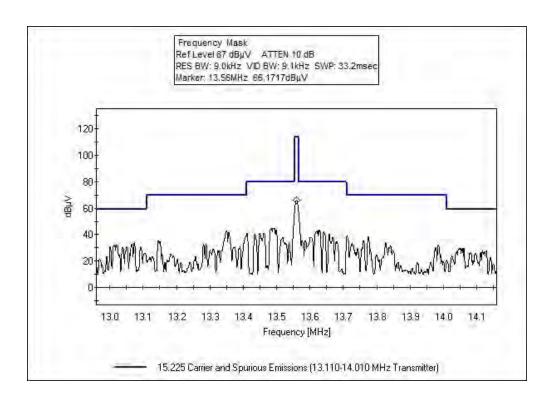
Measu	rement Data:	Re	ading lis	ted by ma	argin.		Te	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	Т3	T4	Dist	Corr	Spec	Margin	Polar
			T5								
	MHz	dΒμV	dB	dB	dB	dB	Table		•	dB	Ant
1	480.034M	49.3	-28.2	+17.7	+0.4	+0.5	+0.0	44.2	46.0	-1.8	Horiz
	QP		+4.5								
2	384.028M	51.1	-27.7	+15.8	+0.4	+0.4	+0.0	44.0	46.0	-2.0	Horiz
	QP		+4.0								
^	384.028M	50.4	-27.7	+15.8	+0.4	+0.4	+0.0	43.3	46.0	-2.7	Horiz
	204.0221.5	50.2	+4.0	. 1 5 0	. 0. 4	. 0. 4	. 0. 0	42.2	16.0	2.0	
^	384.033M	50.3	-27.7	+15.8	+0.4	+0.4	+0.0	43.2	46.0	-2.8	Horiz
^	204.02714	40.4	+4.0	117.0	+0.4	. 0. 4		41.2	46.0	4.7	тт .
	384.027M	48.4	-27.7	+15.8	+0.4	+0.4	+0.0	41.3	46.0	-4.7	Horiz
6	768.053M	39.2	+4.0	+21.9	+0.5	+0.6	+0.0	39.8	46.0	-6.2	Horiz
	OP	39.2	-28.3 +5.9	±21.9	+0.3	+0.6	+0.0	39.8	40.0	-0.2	попи
^	768.056M	39.9	-28.3	+21.9	+0.5	+0.6	+0.0	40.5	46.0	-5.5	Horiz
	700.030WI	39.9	+5.9	121.9	10.5	10.0	10.0	40.5	40.0	-5.5	110112
8	40.679M	47.1	-28.1	+12.9	+0.1	+0.2	+0.0	33.4	40.0	-6.6	Vert
	OP	17.1	+1.2	12.9	0.1	. 0.2	. 0.0	55.1	10.0	0.0	, 011
^	40.684M	49.7	-28.1	+12.9	+0.1	+0.2	+0.0	36.0	40.0	-4.0	Vert
			+1.2								
10	30.614M	42.1	-28.1	+17.9	+0.1	+0.2	+0.0	33.2	40.0	-6.8	Vert
	QP		+1.0								
^	30.633M	45.7	-28.1	+17.9	+0.1	+0.2	+0.0	36.8	40.0	-3.2	Vert
			+1.0								
12	576.038M	41.2	-28.4	+19.7	+0.4	+0.5	+0.0	38.4	46.0	-7.6	Horiz
	QP		+5.0								
^	576.038M	42.9	-28.4	+19.7	+0.4	+0.5	+0.0	40.1	46.0	-5.9	Horiz
	100 100 1	- 10 1	+5.0					•	15.0		
14	480.102M	43.1	-28.2	+17.7	+0.4	+0.5	+0.0	38.0	46.0	-8.0	Vert
1.7	717.05014	20.0	+4.5	120.0	.0.5	10.6		20.0	46.0	0.0	тт .
15	717.850M	38.8	-28.4 +5.6	+20.9	+0.5	+0.6	+0.0	38.0	46.0	-8.0	Horiz
^	QP 717.945M	42.0	-28.4	+20.9	+0.5	+0.6	+0.0	41.2	46.0	-4.8	Horiz
	717.845M	42.0	-28.4 +5.6	±∠0.9	±0.5	±0.6	±0.0	41.2	40.0	-4.8	Horiz
17	396.036M	44.8	-27.8	+16.1	+0.4	+0.4	+0.0	37.9	46.0	-8.1	Horiz
1 /	570.050IVI	77.0	+4.0	10.1	· U. T	10.4	10.0	31.7	70.0	-0.1	110112
18	672.025M	39.1	-28.4	+20.5	+0.5	+0.6	+0.0	37.7	46.0	-8.3	Horiz
10	3,2.323111	57.1	+5.4	- 20.5	. 0.5	. 0.0	. 0.0	31.1	10.0	0.5	110112
19	40.680M	45.4	-28.1	+12.9	+0.1	+0.2	+0.0	31.7	40.0	-8.3	Horiz
			+1.2			<u>-</u>					



20	816.049M	35.0	-28.2 +6.1	+22.6	+0.5	+0.6	+0.0	36.6	46.0	-9.4	Vert
21	780.055M	35.3	-28.3	+22.1	+0.5	+0.6	+0.0	36.1	46.0	-9.9	Horiz
22	816.026M	34.3	+5.9	+22.6	+0.5	+0.6	+0.0	35.9	46.0	-10.1	Horiz
23	85.461M	47.3	+6.1 -27.9	+8.1	+0.2	+0.2	+0.0	29.6	40.0	-10.4	Horiz
24	829.515M	33.2	+1.8 -28.1	+22.7	+0.5	+0.6	+0.0	35.1	46.0	-10.9	Horiz
25	155.675M	45.9	+6.2	+10.8	+0.2	+0.3	+0.0	32.0	43.5	-11.5	Horiz
26	206.02714	41.0	+2.4	.161	. 0. 4	. 0. 4		24.1	46.0	11.0	
26	396.027M	41.0	-27.8 +4.0	+16.1	+0.4	+0.4	+0.0	34.1	46.0	-11.9	Horiz
27	672.015M	35.4	-28.4 +5.4	+20.5	+0.5	+0.6	+0.0	34.0	46.0	-12.0	Vert
28	155.637M	45.1	-27.6 +2.4	+10.8	+0.2	+0.3	+0.0	31.2	43.5	-12.3	Vert
29	780.089M	32.4	-28.3 +5.9	+22.1	+0.5	+0.6	+0.0	33.2	46.0	-12.8	Vert
30	85.423M	44.7	-27.9 +1.8	+8.1	+0.2	+0.2	+0.0	27.1	40.0	-12.9	Vert
31	717.842M	33.3	-28.4 +5.6	+20.9	+0.5	+0.6	+0.0	32.5	46.0	-13.5	Vert
32	829.334M	30.2	-28.1 +6.2	+22.7	+0.5	+0.6	+0.0	32.1	46.0	-13.9	Vert
33	768.167M	31.5	-28.3 +5.9	+21.9	+0.5	+0.6	+0.0	32.1	46.0	-13.9	Vert
34	384.101M	39.1	-27.7 +4.0	+15.8	+0.4	+0.4	+0.0	32.0	46.0	-14.0	Vert
35	372.007M	35.8	-27.6 +3.9	+15.5	+0.4	+0.4	+0.0	28.4	46.0	-17.6	Horiz
36	576.181M	30.8	-28.4 +5.0	+19.7	+0.4	+0.5	+0.0	28.0	46.0	-18.0	Vert
37	30.653M	30.9	-28.1 +1.0	+17.9	+0.1	+0.2	+0.0	22.0	40.0	-18.0	Horiz
38	169.046M	39.2	-27.6 +2.5	+9.8	+0.2	+0.3	+0.0	24.4	43.5	-19.1	Vert
39	396.102M	33.5	-27.8 +4.0	+16.1	+0.4	+0.4	+0.0	26.6	46.0	-19.4	Vert
40	168.971M	38.4	-27.6 +2.5	+9.8	+0.2	+0.3	+0.0	23.6	43.5	-19.9	Horiz
41	453.756M	30.8	-28.1 +4.3	+17.2	+0.4	+0.5	+0.0	25.1	46.0	-20.9	Vert
42	453.743M	30.6	-28.1	+17.2	+0.4	+0.5	+0.0	24.9	46.0	-21.1	Horiz
43	453.726M	30.1	+4.3 -28.1	+17.2	+0.4	+0.5	+0.0	24.4	46.0	-21.6	Horiz
44	371.908M	31.2	+4.3	+15.5	+0.4	+0.4	+0.0	23.8	46.0	-22.2	Vert
			+3.9								



Band Edges Plot



Test Setup Photos





9kHz – 30MHz



30MHz **–** 1GHz





30MHz **–** 1GHz



15.207 AC Conducted Emissions

Test Setup/Conditions

Test Location: CKC Laboratories, Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: **Eventbrite, Inc.**

Specification: 15.207 AC Mains - Average

Work Order #: 97859 Date: 2/10/2016
Test Type: Conducted Emissions Time: 15:06:50
Tested By: Chuck Kendall Sequence#: 3

Software: EMITest 5.03.00 120V 60Hz

Equipment Tested:

Device Manufacturer Model # S/N
Configuration 1

Support Equipment:

Device Manufacturer Model # S/N
Configuration 1

Test Conditions / Notes:

ANSI C63.10 2013

The EUT is set up at 40cm from the vertical ground plane and is .8 meters above a ground plane. It is transmitting in normal mode of operation. The POE is on the test bench during this testing.

Highest clock = 1000 MHz

Antenna leads cut and dummy load is installed across the antenna connection.

Frequencies of Interest: 150kHz to 30MHz

RBW = 9kHz; VBW = 30kHz

Environmental Conditions: Temperature = 20°C Relative Humidity = 44

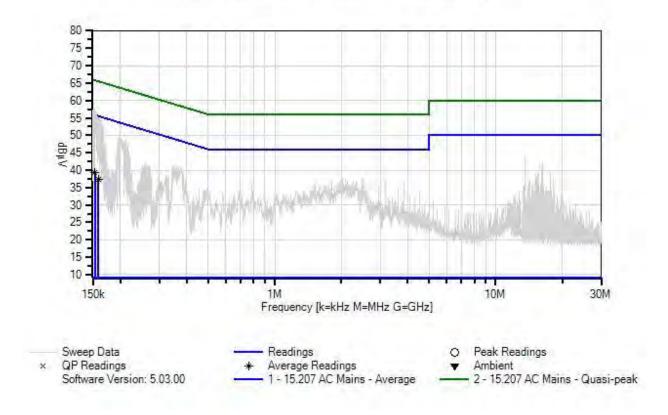
Atmospheric Pressure = 97.7 kPa

Modification #1 was in place during testing

Page 26 of 47 Report No.: 97859-6



Eventbrite, Inc. WO#: 97859 Sequence#: 3 Date: 2/10/2016 15,207 AC Mains - Average Test Lead: 120V 60Hz Line





Test Equipment:

ID	Asset #/Serial #	Description	Model	Calibration Date	Cal Due Date
	AN02111	Spectrum Analyzer	8593EM	6/4/2015	6/4/2016
T1	ANP05624	Attenuator	PE7010-10	1/15/2015	1/15/2017
T2	ANMACOND	Cable		8/26/2014	8/26/2016
T3	ANP06883	Cable	LMR195-FR-3	10/27/2015	10/27/2017
T4	AN02609	High Pass Filter	HE9615-150K-	3/25/2014	3/25/2016
			50-720B		
	AN00374	50uH LISN-Return	8028-TS-50-	1/4/2016	1/4/2017
		(dB)	BNC		
T5	AN00374	50uH LISN-Line	8028-TS-50-	1/4/2016	1/4/2017
		(dB)	BNC		

Measur	rement Data:	Re	eading lis	ted by ma	argin.			Test Lead	d: Line		
#	Freq	Rdng	T1 T5	T2	Т3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	$dB\mu V$	dB	dB	dB	dB	Table	$dB\mu V$	$dB\mu V$	dB	Ant
1	153.250k	27.2	+9.9	+0.0	+0.0	+2.1	+0.0	39.3	55.8	-16.5	Line
1	Ave		+0.1								
^	153.250k	45.4	+9.9 +0.1	+0.0	+0.0	+2.1	+0.0	57.5	55.8	+1.7	Line
^	152.950k	45.3	+9.9 +0.1	+0.0	+0.0	+2.1	+0.0	57.4	55.8	+1.6	Line
^	151.350k	45.0	+9.9 +0.1	+0.0	+0.0	+2.5	+0.0	57.5	55.9	+1.6	Line
٨	152.250k	45.2	+9.9 +0.1	+0.0	+0.0	+2.3	+0.0	57.5	55.9	+1.6	Line
^	154.100k	45.4	+9.9 +0.1	+0.0	+0.0	+1.9	+0.0	57.3	55.8	+1.5	Line
^	150.000k	44.6	+9.9 +0.1	+0.0	+0.0	+2.8	+0.0	57.4	56.0	+1.4	Line
^	150.500k	44.6	+9.9 +0.1	+0.0	+0.0	+2.7	+0.0	57.3	56.0	+1.3	Line
^	151.700k	44.8	+9.9 +0.1	+0.0	+0.0	+2.4	+0.0	57.2	55.9	+1.3	Line
٨	152.850k	44.9	+9.9 +0.1	+0.0	+0.0	+2.1	+0.0	57.0	55.8	+1.2	Line
^	153.450k	44.9	+9.9 +0.1	+0.0	+0.0	+2.0	+0.0	56.9	55.8	+1.1	Line
^	150.200k	44.1	+9.9 +0.1	+0.0	+0.0	+2.7	+0.0	56.8	56.0	+0.8	Line
^	151.600k	44.1	+9.9 +0.1	+0.0	+0.0	+2.4	+0.0	56.5	55.9	+0.6	Line
14	159.130k Ave	26.6	+9.9 +0.1	+0.0	+0.0	+0.8	+0.0	37.4	55.5	-18.1	Line
٨	154.450k	45.1	+9.9 +0.1	+0.0	+0.0	+1.8	+0.0	56.9	55.8	+1.1	Line
٨	154.950k	45.0	+9.9 +0.1	+0.0	+0.0	+1.7	+0.0	56.7	55.7	+1.0	Line
٨	154.200k	44.8	+9.9 +0.1	+0.0	+0.0	+1.8	+0.0	56.6	55.8	+0.8	Line



^	156.100k	44.8	+9.9	+0.0	+0.0	+1.4	+0.0	56.2	55.7	+0.5	Line
			+0.1								
^	155.950k	44.6	+9.9	+0.0	+0.0	+1.5	+0.0	56.1	55.7	+0.4	Line
			+0.1								
^	156.500k	44.5	+9.9	+0.0	+0.0	+1.3	+0.0	55.8	55.6	+0.2	Line
			+0.1								
^	156.750k	44.5	+9.9	+0.0	+0.0	+1.3	+0.0	55.8	55.6	+0.2	Line
			+0.1								
^	157.500k	44.3	+9.9	+0.0	+0.0	+1.1	+0.0	55.4	55.6	-0.2	Line
			+0.1								
^	161.250k	44.6	+9.9	+0.0	+0.0	+0.6	+0.0	55.2	55.4	-0.2	Line
			+0.1								
^	158.100k	44.3	+9.9	+0.0	+0.0	+1.0	+0.0	55.3	55.6	-0.3	Line
			+0.1								
^	158.000k	44.2	+9.9	+0.0	+0.0	+1.0	+0.0	55.2	55.6	-0.4	Line
			+0.1								
^	157.750k	44.1	+9.9	+0.0	+0.0	+1.1	+0.0	55.2	55.6	-0.4	Line
			+0.1								
^	158.950k	44.3	+9.9	+0.0	+0.0	+0.8	+0.0	55.1	55.5	-0.4	Line
			+0.1								
^	157.350k	43.9	+9.9	+0.0	+0.0	+1.2	+0.0	55.1	55.6	-0.5	Line
			+0.1								
^	158.350k	44.2	+9.9	+0.0	+0.0	+0.9	+0.0	55.1	55.6	-0.5	Line
			+0.1								
^	160.700k	44.3	+9.9	+0.0	+0.0	+0.6	+0.0	54.9	55.4	-0.5	Line
			+0.1								
^	158.700k	44.0	+9.9	+0.0	+0.0	+0.9	+0.0	54.9	55.5	-0.6	Line
			+0.1								
^	159.850k	44.3	+9.9	+0.0	+0.0	+0.6	+0.0	54.9	55.5	-0.6	Line
			+0.1								



Test Location: CKC Laboratories, Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: **Eventbrite, Inc.**

Specification: 15.207 AC Mains - Average

 Work Order #:
 97859
 Date: 2/10/2016

 Test Type:
 Conducted Emissions
 Time: 14:59:36

Tested By: Chuck Kendall Sequence#: 4

Software: EMITest 5.03.00

Equipment Tested:

Device	Manufacturer	Model #	S/N	
Configuration 1				

120V 60Hz

Support Equipment:

Device	Manufacturer	Model #	S/N	
Configuration 1				

Test Conditions / Notes:

ANSI C63.10 2013

The EUT is set up at 40cm from the vertical ground plane and is .8 meters above a ground plane. It is transmitting in normal mode of operation. The POE is on the test bench during this testing.

Highest clock = 1000 MHz

Antenna leads cut and dummy load is installed across the antenna connection.

Frequencies of Interest: 150kHz to 30MHz

RBW = 9kHz; VBW = 30kHz

Environmental Conditions: Temperature = 20°C Relative Humidity = 44%

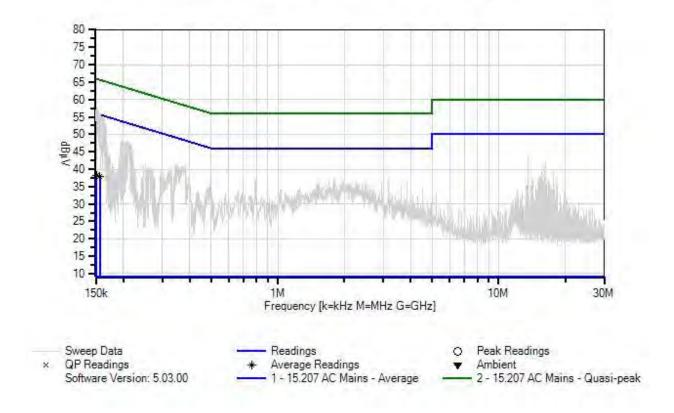
Atmospheric Pressure = 97.7 kPa

Modification #1 was in place during testing.

Page 30 of 47 Report No.: 97859-6



Eventbrite, Inc. WO#: 97859 Sequence#: 4 Date: 2/10/2016 15.207 AC Mains - Average Test Lead: 120V 60Hz Neutral





Test Equipment:

ID	Asset #/Serial #	Description	Model	Calibration Date	Cal Due Date
	AN02111	Spectrum Analyzer	8593EM	6/4/2015	6/4/2016
T1	ANP05624	Attenuator	PE7010-10	1/15/2015	1/15/2017
T2	ANMACOND	Cable		8/26/2014	8/26/2016
T3	ANP06883	Cable	LMR195-FR-3	10/27/2015	10/27/2017
T4	AN02609	High Pass Filter	HE9615-150K-	3/25/2014	3/25/2016
			50-720B		
T5	AN00374	50uH LISN-Return	8028-TS-50-	1/4/2016	1/4/2017
		(dB)	BNC		
	AN00374	50uH LISN-Line	8028-TS-50-	1/4/2016	1/4/2017
		(dB)	BNC		

Measu	rement Data:	Re	eading lis	ted by ma	argin.			Test Lead	d: Neutral		
#	Freq	Rdng	T1	T2	Т3	T4	Dist	Corr	Spec	Margin	Polar
			T5								
	MHz	dΒμV	dB	dB	dB	dB	Table	dΒμV	dΒμV	dB	Ant
1	156.800k	26.5	+9.9	+0.0	+0.0	+1.3	+0.0	37.9	55.6	-17.7	Neutr
	Ave		+0.2								
^	156.800k	44.6	+9.9	+0.0	+0.0	+1.3	+0.0	56.0	55.6	+0.4	Neutr
			+0.2								
^	156.550k	44.5	+9.9	+0.0	+0.0	+1.3	+0.0	55.9	55.6	+0.3	Neutr
			+0.2								
^	157.100k	44.6	+9.9	+0.0	+0.0	+1.2	+0.0	55.9	55.6	+0.3	Neutr
			+0.2								
^	157.200k	44.5	+9.9	+0.0	+0.0	+1.2	+0.0	55.8	55.6	+0.2	Neutr
	1.55.2001		+0.2	. 0. 0	. 0. 0	. 1.0	. 0. 0	55.0		. 0. 2	37 .
^	157.300k	44.5	+9.9	+0.0	+0.0	+1.2	+0.0	55.8	55.6	+0.2	Neutr
^	1.5.6.2.501	112	+0.2			. 1 4	. 0. 0	55.0	55.7	.0.1	3.7
	156.350k	44.3	+9.9	+0.0	+0.0	+1.4	+0.0	55.8	55.7	+0.1	Neutr
^	157 5501-	111	+0.2	+0.0	100	+1.1	100	55.6	<i>EE (</i>	+0.0	Massau
, ,	157.550k	44.4	+9.9 +0.2	+0.0	+0.0	+1.1	+0.0	55.6	55.6	+0.0	Neutr
^	157.700k	44.3	+9.9	+0.0	+0.0	+1.1	+0.0	55.5	55.6	-0.1	Neutr
	137.700K	44.3	+0.2	±0.0	+0.0	⊤1.1	±0.0	33.3	33.0	-0.1	Neuu
^	158.550k	44.4	+9.9	+0.0	+0.0	+0.9	+0.0	55.4	55.5	-0.1	Neutr
	136.330K	44.4	+0.2	10.0	10.0	10.9	10.0	33.4	33.3	-0.1	Neun
^	160.550k	44.5	+9.9	+0.0	+0.0	+0.6	+0.0	55.2	55.4	-0.2	Neutr
	100.330K	77.5	+0.2	10.0	10.0	10.0	10.0	33.2	33.4	-0.2	ricuti
^	159.050k	44.3	+9.9	+0.0	+0.0	+0.8	+0.0	55.2	55.5	-0.3	Neutr
	107.000K	11.5	+0.2	. 0.0	. 0.0	. 0.0	. 0.0	33.2	33.3	0.5	110411
^	158.300k	44.1	+9.9	+0.0	+0.0	+0.9	+0.0	55.1	55.6	-0.5	Neutr
	- 0.0 0 0 M	1	+0.2	0.0	0.0	0.7	0.0		22.3	0.0	- 10000
^	159.350k	44.2	+9.9	+0.0	+0.0	+0.7	+0.0	55.0	55.5	-0.5	Neutr
			+0.2								

Page 32 of 47 Report No.: 97859-6



15	151.070k	25.5	+9.9	+0.0	+0.0	+2.5	+0.0	38.1	55.9	-17.8	Neutr
1	Ave		+0.2								
^	151.050k	44.8	+9.9	+0.0	+0.0	+2.6	+0.0	57.5	55.9	+1.6	Neutr
			+0.2								
^	151.850k	44.9	+9.9	+0.0	+0.0	+2.4	+0.0	57.4	55.9	+1.5	Neutr
			+0.2								
^	152.100k	45.0	+9.9	+0.0	+0.0	+2.3	+0.0	57.4	55.9	+1.5	Neutr
			+0.2								
^	152.550k	45.1	+9.9	+0.0	+0.0	+2.2	+0.0	57.4	55.9	+1.5	Neutr
			+0.2								
^	152.800k	44.9	+9.9	+0.0	+0.0	+2.2	+0.0	57.2	55.8	+1.4	Neutr
			+0.2								
^	150.850k	44.7	+9.9	+0.0	+0.0	+2.6	+0.0	57.4	56.0	+1.4	Neutr
	1.50.0001		+0.2								3.7
^	153.800k	45.2	+9.9	+0.0	+0.0	+1.9	+0.0	57.2	55.8	+1.4	Neutr
	1.52 0.501	45.0	+0.2			. 0. 1		57.0	55.0	. 1 4	3.7
^	153.050k	45.0	+9.9	+0.0	+0.0	+2.1	+0.0	57.2	55.8	+1.4	Neutr
^	151 5501	44.0	+0.2			10.4	10.0	57.2	55.0	. 1. 4	N T 4
	151.550k	44.8	+9.9 +0.2	+0.0	+0.0	+2.4	+0.0	57.3	55.9	+1.4	Neutr
^	153.200k	44.8	+9.9	+0.0	+0.0	+2.1	+0.0	57.0	55.8	+1.2	Noute
	155.200K	44.8	+9.9	+0.0	+0.0	+2.1	+0.0	37.0	33.8	+1.2	Neutr
^	154.850k	45.1	+9.9	+0.0	+0.0	+1.7	+0.0	56.9	55.7	+1.2	Neutr
	134.630K	43.1	+0.2	+0.0	±0.0	⊤1./	±0.0	30.9	33.7	⊤1.∠	Neuu
^	153.450k	44.8	+9.9	+0.0	+0.0	+2.0	+0.0	56.9	55.8	+1.1	Neutr
	133.430K	44.0	+0.2	10.0	10.0	12.0	10.0	30.9	33.6	' 1.1	reun
^	155.050k	44.8	+9.9	+0.0	+0.0	+1.7	+0.0	56.6	55.7	+0.9	Neutr
	133.030K	77.0	+0.2	10.0	10.0	1.7	10.0	30.0	33.1	10.7	rveati
^	154.600k	44.6	+9.9	+0.0	+0.0	+1.8	+0.0	56.5	55.7	+0.8	Neutr
	15 1.000K	11.0	+0.2	. 0.0	. 0.0	1.0	. 0.0	20.2	55.7	. 0.0	ricati
^	155.550k	44.5	+9.9	+0.0	+0.0	+1.5	+0.0	56.1	55.7	+0.4	Neutr
	-20.00 OR		+0.2	•••	0.0	1.0	0.0			V. 1	1,000
^	154.300k	44.3	+9.9	+0.0	+0.0	+1.8	+0.0	56.2	55.8	+0.4	Neutr
	2		+0.2								
^	155.950k	44.4	+9.9	+0.0	+0.0	+1.5	+0.0	56.0	55.7	+0.3	Neutr
		- "	+0.2								



Test Location: CKC Laboratories, Inc. • 5046 Sierra Pines Drive • Mariposa CA • (209) 966-5240

Customer: **Eventbrite, Inc.**

Specification: 15.207 AC Mains - Average

EMITest 5.03.00

 Work Order #:
 97859
 Date: 2/11/2016

 Test Type:
 Conducted Emissions
 Time: 09:38:29

Tested By: Chuck Kendall Sequence#: 7

Equipment Tested:

Software:

Device Manufacturer Model # S/N
Configuration 1

120V 60Hz

Support Equipment:

Device Manufacturer Model # S/N
Configuration 1

Test Conditions / Notes:

ANSI C63.10 2013

The EUT is set up at 3m and is 0.8 meter above a ground plane and 40cm away from the vertical ground plane.. It is transmitting in normal mode of operation. The POE is on the test bench during this testing.

Highest clock =1 GHz

Environmental Conditions:

Temperature = 20° C

Relative Humidity = 44%

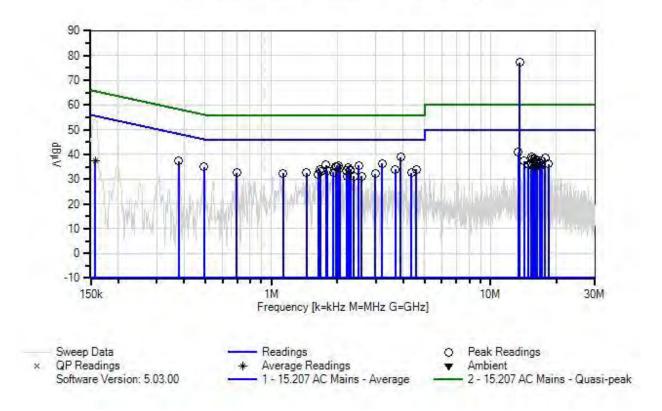
Atmospheric Pressure = 97.7 kPa

Modification #1 was in place during testing.

Page 34 of 47 Report No.: 97859-6



Eventbrite, Inc. WO#: 97859 Sequence#: 7 Date: 2/11/2016 15.207 AC Mains - Average Test Lead: 120V 60Hz Line





Test Equipment:

ID	Asset #/Serial #	Description	Model	Calibration Date	Cal Due Date
	AN02111	Spectrum Analyzer	8593EM	6/4/2015	6/4/2016
T1	ANP06770	Attenuator	PE7010-10	1/15/2015	1/15/2017
T2	ANMACOND	Cable		8/26/2014	8/26/2016
T3	ANP06885	Cable	P06885	10/27/2015	10/27/2017
T4	AN02608	High Pass Filter	HE9615-150K-	3/25/2014	3/25/2016
			50-720B		
T5	ANP05684	Cable	RG223/U	1/15/2015	1/15/2017
	AN01248	50uH LISN-Line 1	8028-50-TS-24-	1/4/2016	1/4/2017
		(Return) (dB)	BNC		
T6	AN01248	50uH LISN-Line 2	8028-50-TS-24-	1/4/2016	1/4/2017
		(Line) (dB)	BNC		

Measur	rement Data:	Re	eading lis	ted by ma	argin.			Test Lea	d: Line		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6							
	MHz	dΒμV	dB	dB	dB	dB	Table	dBμV	dBμV	dB	Ant
1	13.562M	66.2	+10.1	+0.5	+0.1	+0.1	+0.0	77.3	50.0	+27.3	Line
			+0.0	+0.3				• • • •	46.0		
2	3.897M	28.3	+10.1	+0.3	+0.1	+0.1	+0.0	39.0	46.0	-7.0	Line
	12.2643.6	20.7	+0.0	+0.1	. 0.1	.0.1		40.0	50.0	0.2	T ·
3	13.364M	29.7	+10.1	+0.5	+0.1	+0.1	+0.0	40.8	50.0	-9.2	Line
4	2 2123 4	27.0	+0.0	+0.3		+0.1		26.2	46.0	0.7	т.
4	3.212M	25.8	+10.1	+0.2	+0.0	+0.1	+0.0	36.3	46.0	-9.7	Line
	1 77514	24.6	+0.0	+0.1	100	10.2	100	25.7	46.0	10.2	т :
5	1.775M	24.6	$+10.1 \\ +0.0$	+0.2 +0.6	+0.0	+0.2	+0.0	35.7	46.0	-10.3	Line
6	2.502M	25.1	+10.1	+0.0	+0.0	+0.1	+0.0	35.6	46.0	-10.4	Line
0	2.302IVI	23.1	+10.1 $+0.0$	+0.2	+0.0	+0.1	+0.0	33.0	40.0	-10.4	Line
7	2.017M	24.9	+10.1	+0.1	+0.0	+0.1	+0.0	35.4	46.0	-10.6	Line
,	2.01 / WI	24.9	+0.0	+0.2	10.0	10.1	10.0	33.4	40.0	-10.0	Line
8	1.987M	24.6	+10.1	+0.2	+0.0	+0.1	+0.0	35.1	46.0	-10.9	Line
	1.50711	24.0	+0.0	+0.1	10.0	. 0.1	10.0	33.1	40.0	-10.7	Line
9	377.615k	26.8	+10.1	+0.1	+0.0	+0.2	+0.0	37.3	48.3	-11.0	Line
	377.013K	20.0	+0.0	+0.1	. 0.0	. 0.2	. 0.0	57.5	10.5	11.0	Line
10	1.970M	24.5	+10.1	+0.2	+0.0	+0.1	+0.0	35.0	46.0	-11.0	Line
			+0.0	+0.1							
11	15.436M	27.6	+10.1	+0.6	+0.1	+0.1	+0.0	38.9	50.0	-11.1	Line
			+0.0	+0.4							
12	493.968k	24.4	+10.1	+0.1	+0.0	+0.2	+0.0	34.9	46.1	-11.2	Line
			+0.0	+0.1							
13	2.247M	24.3	+10.1	+0.2	+0.0	+0.1	+0.0	34.8	46.0	-11.2	Line
			+0.0	+0.1							
14	17.697M	27.2	+10.1	+0.6	+0.1	+0.1	+0.0	38.5	50.0	-11.5	Line
			+0.0	+0.4							
15	2.055M	23.9	+10.1	+0.2	+0.0	+0.1	+0.0	34.4	46.0	-11.6	Line
			+0.0	+0.1							
16	15.598M	27.0	+10.1	+0.6	+0.1	+0.1	+0.0	38.3	50.0	-11.7	Line
			+0.0	+0.4							



17	15.923M	26.8	+10.1	+0.6	+0.1	+0.1	+0.0	38.1	50.0	-11.9	Line
18	1.660M	23.0	+0.0	+0.4	+0.0	+0.2	+0.0	34.0	46.0	-12.0	Line
10	1.0001	23.0	+0.0	+0.5	10.0	10.2	10.0	34.0	40.0	-12.0	Line
19	16.283M	26.7	+10.1	+0.6	+0.1	+0.1	+0.0	38.0	50.0	-12.0	Line
			+0.0	+0.4							
20	4.586M	23.2	+10.1	+0.3	+0.1	+0.1	+0.0	33.9	46.0	-12.1	Line
			+0.0	+0.1							
21	3.671M	23.2	+10.1	+0.3	+0.1	+0.1	+0.0	33.9	46.0	-12.1	Line
			+0.0	+0.1							
22	2.293M	23.3	+10.1	+0.2	+0.0	+0.1	+0.0	33.8	46.0	-12.2	Line
	2 2013 5		+0.0	+0.1		. 0. 1	. 0. 0	22.6	46.0	10.4	T .
23	2.281M	23.1	+10.1	+0.2	+0.0	+0.1	+0.0	33.6	46.0	-12.4	Line
24	2 20014	22.1	+0.0	+0.1	+0.0	+0.1	+0.0	33.6	46.0	12.4	Lina
24	2.200M	23.1	+10.1 +0.0	+0.2 +0.1	+0.0	+0.1	+0.0	33.0	46.0	-12.4	Line
25	16.166M	26.3	+10.1	+0.1	+0.1	+0.1	+0.0	37.6	50.0	-12.4	Line
23	10.100IVI	20.3	+0.0	+0.4	10.1	10.1	10.0	37.0	30.0	-12.4	Line
26	1.804M	22.1	+10.1	+0.2	+0.0	+0.2	+0.0	33.3	46.0	-12.7	Line
20	1.00 1141	22.1	+0.0	+0.7	. 0.0	. 0.2	. 0.0	33.3	10.0	12.7	Line
27	14.211M	26.2	+10.1	+0.5	+0.1	+0.1	+0.0	37.3	50.0	-12.7	Line
			+0.0	+0.3							
28	17.085M	26.0	+10.1	+0.6	+0.1	+0.1	+0.0	37.3	50.0	-12.7	Line
			+0.0	+0.4							
29	1.681M	22.0	+10.1	+0.2	+0.0	+0.2	+0.0	33.0	46.0	-13.0	Line
			+0.0	+0.5							
30	1.919M	22.1	+10.1	+0.2	+0.0	+0.1	+0.0	32.8	46.0	-13.2	Line
			+0.0	+0.3							
31	696.858k	22.0	+10.1	+0.1	+0.0	+0.2	+0.0	32.6	46.0	-13.4	Line
22	4.26014	21.0	+0.0	+0.2	+0.1	+0.1	10.0	22.6	46.0	12.4	T ·
32	4.360M	21.9	+10.1	+0.3	+0.1	+0.1	+0.0	32.6	46.0	-13.4	Line
33	1.447M	21.6	+0.0	+0.1	+0.0	+0.2	+0.0	32.5	46.0	-13.5	Line
33	1.44/IVI	21.0	+0.0	+0.4	10.0	10.2	10.0	32.3	40.0	-13.3	Line
34	16.229M	25.2	+10.1	+0.4	+0.1	+0.1	+0.0	36.5	50.0	-13.5	Line
]	10.22711	23.2	+0.0	+0.4	. 0.1	. 0.1	10.0	30.3	30.0	13.3	Line
35	1.132M	21.6	+10.1	+0.1	+0.0	+0.2	+0.0	32.3	46.0	-13.7	Line
			+0.0	+0.3						- * *	-
36	15.364M	24.9	+10.1	+0.6	+0.1	+0.1	+0.0	36.2	50.0	-13.8	Line
			+0.0	+0.4							
37	16.905M	24.9	+10.1	+0.6	+0.1	+0.1	+0.0	36.2	50.0	-13.8	Line
			+0.0	+0.4							
38	16.959M	24.8	+10.1	+0.6	+0.1	+0.1	+0.0	36.1	50.0	-13.9	Line
20	2.0023.5	21.6	+0.0	+0.4			. 0. 0	22.1	46.0	12.0	
39	2.982M	21.6	+10.1	+0.2	+0.0	+0.1	+0.0	32.1	46.0	-13.9	Line
40	10 26 AM	24.7	+0.0	+0.1	±0 1	±0.2		26 1	50.0	12.0	Lina
40	18.364M	24.7	+10.1 +0.0	+0.6 +0.4	+0.1	+0.2	+0.0	36.1	50.0	-13.9	Line
41	1.634M	20.9	+10.1	+0.4	+0.0	+0.2	+0.0	31.9	46.0	-14.1	Line
71	1.054141	40.7	+0.0	+0.2	10.0	10.4	0.0	31.7	70.0	-14.1	Line
42	14.905M	24.6	+10.1	+0.6	+0.1	+0.1	+0.0	35.8	50.0	-14.2	Line
	1 001.1		+0.0	+0.3	J.1	J.1	0.0	22.0	20.0		2

Page 37 of 47 Report No.: 97859-6



43	15.553M	24.3	+10.1	+0.6	+0.1	+0.1	+0.0	35.6	50.0	-14.4	Line
			+0.0	+0.4							
44	16.842M	24.2	+10.1	+0.6	+0.1	+0.1	+0.0	35.5	50.0	-14.5	Line
			+0.0	+0.4							
45	2.217M	20.7	+10.1	+0.2	+0.0	+0.1	+0.0	31.2	46.0	-14.8	Line
			+0.0	+0.1							
46	15.860M	23.9	+10.1	+0.6	+0.1	+0.1	+0.0	35.2	50.0	-14.8	Line
			+0.0	+0.4							
47	2.578M	20.7	+10.1	+0.2	+0.0	+0.1	+0.0	31.2	46.0	-14.8	Line
			+0.0	+0.1							
48	2.378M	20.7	+10.1	+0.2	+0.0	+0.1	+0.0	31.2	46.0	-14.8	Line
			+0.0	+0.1							
49	15.986M	23.7	+10.1	+0.6	+0.1	+0.1	+0.0	35.0	50.0	-15.0	Line
			+0.0	+0.4							
50	157.272k	26.1	+10.1	+0.0	+0.0	+1.2	+0.0	37.5	55.6	-18.1	Line
A	Ave		+0.0	+0.1							
^	157.272k	42.9	+10.1	+0.0	+0.0	+1.2	+0.0	54.3	55.6	-1.3	Line
			+0.0	+0.1							



Test Location: CKC Laboratories, Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: **Eventbrite, Inc.**

Specification: 15.207 AC Mains - Average

EMITest 5.03.00

 Work Order #:
 97859
 Date: 2/10/2016

 Test Type:
 Conducted Emissions
 Time: 10:43:37

Tested By: Chuck Kendall Sequence#: 9

Equipment Tested:

Software:

Device Manufacturer Model # S/N
Configuration 1

120V 60Hz

Support Equipment:

Device Manufacturer Model # S/N
Configuration 1

Test Conditions / Notes:

ANSI C63.10 2013

The EUT is set up at 3m and is 0.8 meter above a ground plane and 40cm away from the vertical ground plane.. It is transmitting in normal mode of operation. The POE is on the test bench during this testing.

Highest clock =1 GHz

Environmental Conditions:

Temperature = 20° C

Relative Humidity = 44%

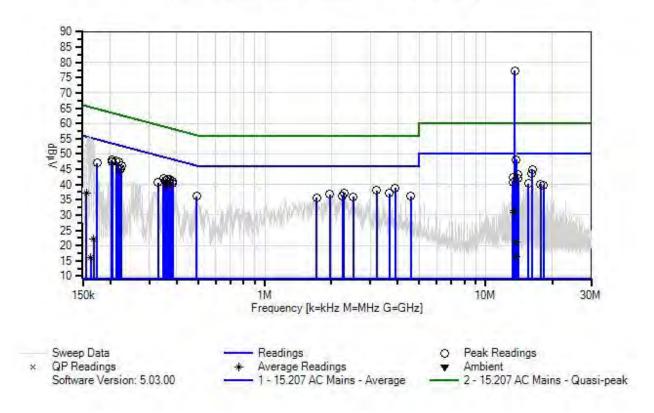
Atmospheric Pressure = 97.7 kPa

Modification #1 was in place during testing.

Page 39 of 47 Report No.: 97859-6



Eventbrite, Inc. WO#: 97859 Sequence#: 9 Date: 2/10/2016 15.207 AC Mains - Average Test Lead: 120V 60Hz Neutral





Test Equipment:

ID	Asset #/Serial #	Description	Model	Calibration Date	Cal Due Date
	AN02111	Spectrum Analyzer	8593EM	6/4/2015	6/4/2016
T1	ANP06770	Attenuator	PE7010-10	1/15/2015	1/15/2017
T2	ANMACOND	Cable		8/26/2014	8/26/2016
T3	ANP06885	Cable	P06885	10/27/2015	10/27/2017
T4	AN02608	High Pass Filter	HE9615-150K-	3/25/2014	3/25/2016
			50-720B		
T5	ANP05684	Cable	RG223/U	1/15/2015	1/15/2017
T6	AN01248	50uH LISN-Line 1	8028-50-TS-24-	1/4/2016	1/4/2017
		(Return) (dB)	BNC		
	AN01248	50uH LISN-Line 2	8028-50-TS-24-	1/4/2016	1/4/2017
		(Line) (dB)	BNC		

Measur	rement Data:	Re	eading lis	ted by ma	argin.			Test Lea	d: Neutral		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6							
	MHz	dBμV	dB	dB	dB	dB	Table	dΒμV	dBμV	dB	Ant
1	13.562M	66.0	+10.1	+0.5	+0.1	+0.1	+0.0	77.2	50.0	+27.2	Neutr
			+0.0	+0.4							
2	13.779M	37.0	+10.1	+0.5	+0.1	+0.1	+0.0	48.2	50.0	-1.8	Neutr
	1 (2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		+0.0	+0.4							3.7
3	16.229M	33.5	+10.1	+0.6	+0.1	+0.1	+0.0	44.8	50.0	-5.2	Neutr
	212 5201	27.0	+0.0	+0.4		. 0. 2		47.7			3.7
4	212.539k	37.2	+10.1	+0.1	+0.0	+0.2	+0.0	47.7	53.1	-5.4	Neutr
	202.00(1	27.5	+0.0	+0.1	. 0. 0	. 0. 2	. 0. 0	40.0	52.5		3.7
5	203.086k	37.5	+10.1	+0.1	+0.0	+0.2	+0.0	48.0	53.5	-5.5	Neutr
	217 (201-	26.0	+0.0	+0.1	+0.0	+0.2	ΙΛ.Λ	17.1	52.0	<i>E E</i>	Manda
6	217.630k	36.9	$+10.1 \\ +0.0$	+0.1 +0.1	+0.0	+0.2	+0.0	47.4	52.9	-5.5	Neutr
7	204.540k	37.0	+10.1	+0.1	+0.0	+0.2	+0.0	47.5	53.4	-5.9	Neutr
/	204.340K	37.0	+10.1 $+0.0$	+0.1	+0.0	+0.∠	+0.0	47.3	33.4	-3.9	Neuu
8	16.166M	32.4	+10.1	+0.1	+0.1	+0.1	+0.0	43.7	50.0	-6.3	Neutr
0	10.1001	32.4	+0.0	+0.4	10.1	10.1	10.0	43.7	30.0	-0.5	rvcuti
9	224.902k	35.5	+10.1	+0.1	+0.0	+0.2	+0.0	46.0	52.6	-6.6	Neutr
	22 1.902K	33.3	+0.0	+0.1	. 0.0	. 0.2	. 0.0	10.0	32.0	0.0	rtean
10	372.525k	31.3	+10.1	+0.1	+0.0	+0.1	+0.0	41.7	48.4	-6.7	Neutr
			+0.0	+0.1		***		,			• • • • • • • • • • • • • • • • • •
11	13.986M	31.9	+10.1	+0.5	+0.1	+0.1	+0.0	43.1	50.0	-6.9	Neutr
			+0.0	+0.4							
12	348.527k	31.5	+10.1	+0.1	+0.0	+0.1	+0.0	41.9	49.0	-7.1	Neutr
			+0.0	+0.1							
13	363.071k	31.1	+10.1	+0.1	+0.0	+0.1	+0.0	41.5	48.7	-7.2	Neutr
			+0.0	+0.1							
14	384.160k	30.5	+10.1	+0.1	+0.0	+0.2	+0.0	41.0	48.2	-7.2	Neutr
			+0.0	+0.1							
15	3.892M	28.1	+10.1	+0.3	+0.1	+0.1	+0.0	38.8	46.0	-7.2	Neutr
			+0.0	+0.1							
16	222.720k	34.7	+10.1	+0.1	+0.0	+0.2	+0.0	45.2	52.7	-7.5	Neutr
			+0.0	+0.1							



17	355.799k	30.8	+10.1	+0.1	+0.0	+0.1	+0.0	41.2	48.8	-7.6	Neutr
1.0	12.26414	21.1	+0.0	+0.1	. 0. 1	.0.1		12.2	50.0	7.7	NT 4
18	13.364M	31.1	+10.1	+0.5	+0.1	+0.1	+0.0	42.3	50.0	-7.7	Neutr
10	201 2511	20.0	+0.0	+0.4		.0.2		10.7	40.2	7.0	NT 4
19	381.251k	30.0	+10.1	+0.1	+0.0	+0.2	+0.0	40.5	48.3	-7.8	Neutr
20	150 0051	26.5	+0.0	+0.1	. 0. 0	. 0. 2	. 0. 0	45.0	7.1.0		3.7
20	173.997k	36.5	+10.1	+0.0	+0.0	+0.3	+0.0	47.0	54.8	-7.8	Neutr
	2000	20.2	+0.0	+0.1		0.1			10.7		3.7
21	369.616k	30.3	+10.1	+0.1	+0.0	+0.1	+0.0	40.7	48.5	-7.8	Neutr
	1107037	• • • •	+0.0	+0.1		0.1			= 0.0		3.7
22	14.058M	30.9	+10.1	+0.5	+0.1	+0.1	+0.0	42.1	50.0	-7.9	Neutr
			+0.0	+0.4							
23	3.203M	27.5	+10.1	+0.2	+0.0	+0.1	+0.0	38.0	46.0	-8.0	Neutr
			+0.0	+0.1							
24	221.266k	34.2	+10.1	+0.1	+0.0	+0.2	+0.0	44.7	52.8	-8.1	Neutr
			+0.0	+0.1							
25	358.708k	30.0	+10.1	+0.1	+0.0	+0.1	+0.0	40.4	48.8	-8.4	Neutr
			+0.0	+0.1							
26	2.289M	26.7	+10.1	+0.2	+0.0	+0.1	+0.0	37.2	46.0	-8.8	Neutr
			+0.0	+0.1							
27	328.892k	30.2	+10.1	+0.1	+0.0	+0.1	+0.0	40.6	49.5	-8.9	Neutr
			+0.0	+0.1							
28	364.525k	29.3	+10.1	+0.1	+0.0	+0.1	+0.0	39.7	48.6	-8.9	Neutr
			+0.0	+0.1							
29	3.667M	26.4	+10.1	+0.3	+0.1	+0.1	+0.0	37.1	46.0	-8.9	Neutr
			+0.0	+0.1							
30	1.974M	26.3	+10.1	+0.2	+0.0	+0.1	+0.0	36.8	46.0	-9.2	Neutr
			+0.0	+0.1							
31	13.292M	29.5	+10.1	+0.5	+0.1	+0.1	+0.0	40.7	50.0	-9.3	Neutr
			+0.0	+0.4							
32	15.616M	29.0	+10.1	+0.6	+0.1	+0.1	+0.0	40.3	50.0	-9.7	Neutr
			+0.0	+0.4							
33	2.247M	25.8	+10.1	+0.2	+0.0	+0.1	+0.0	36.3	46.0	-9.7	Neutr
			+0.0	+0.1							
34	4.581M	25.5	+10.1	+0.3	+0.1	+0.1	+0.0	36.2	46.0	-9.8	Neutr
			+0.0	+0.1							
35	17.697M	28.8	+10.1	+0.6	+0.1	+0.1	+0.0	40.2	50.0	-9.8	Neutr
			+0.0	+0.5							
36	491.786k	25.7	+10.1	+0.1	+0.0	+0.2	+0.0	36.2	46.1	-9.9	Neutr
			+0.0	+0.1							
37	2.519M	25.5	+10.1	+0.2	+0.0	+0.1	+0.0	36.0	46.0	-10.0	Neutr
			+0.0	+0.1							
38	18.247M	28.3	+10.1	+0.6	+0.1	+0.2	+0.0	39.8	50.0	-10.2	Neutr
			+0.0	+0.5							
39	1.715M	25.1	+10.1	+0.2	+0.0	+0.2	+0.0	35.7	46.0	-10.3	Neutr
			+0.0	+0.1							
40	155.818k	25.6	+10.1	+0.0	+0.0	+1.5	+0.0	37.3	55.7	-18.4	Neutr
_	Ave		+0.0	+0.1	2.5		- • •	• •			
^	155.818k	42.7	+10.1	+0.0	+0.0	+1.5	+0.0	54.4	55.7	-1.3	Neutr
		,	+0.0	+0.1	3.0	1.0				1.0	
42	13.420M	20.2	+10.1	+0.5	+0.1	+0.1	+0.0	31.4	50.0	-18.6	Neutr
	Ave		+0.0	+0.4			- • •				
			0.0	J							

Page 42 of 47 Report No.: 97859-6



43	13.499M	19.6	+10.1	+0.5	+0.1	+0.1	+0.0	30.8	50.0	-19.2	Neutr
I	Ave		+0.0	+0.4							
^	13.499M	42.1	+10.1	+0.5	+0.1	+0.1	+0.0	53.3	50.0	+3.3	Neutr
			+0.0	+0.4							
45	13.427M	19.5	+10.1	+0.5	+0.1	+0.1	+0.0	30.7	50.0	-19.3	Neutr
I	Ave		+0.0	+0.4							
^	13.427M	40.9	+10.1	+0.5	+0.1	+0.1	+0.0	52.1	50.0	+2.1	Neutr
			+0.0	+0.4							
47	13.643M	9.9	+10.1	+0.5	+0.1	+0.1	+0.0	21.1	50.0	-28.9	Neutr
A	Ave		+0.0	+0.4							
^	13.643M	42.8	+10.1	+0.5	+0.1	+0.1	+0.0	54.0	50.0	+4.0	Neutr
			+0.0	+0.4							
49	168.180k	11.6	+10.1	+0.0	+0.0	+0.4	+0.0	22.2	55.0	-32.8	Neutr
I	Ave		+0.0	+0.1							
^	168.180k	43.8	+10.1	+0.0	+0.0	+0.4	+0.0	54.4	55.0	-0.6	Neutr
			+0.0	+0.1							
51	13.706M	5.1	+10.1	+0.5	+0.1	+0.1	+0.0	16.3	50.0	-33.7	Neutr
I	Ave		+0.0	+0.4							
^	13.706M	40.2	+10.1	+0.5	+0.1	+0.1	+0.0	51.4	50.0	+1.4	Neutr
			+0.0	+0.4							
53	163.090k	5.2	+10.1	+0.0	+0.0	+0.5	+0.0	15.9	55.3	-39.4	Neutr
I	Ave		+0.0	+0.1							
^	163.090k	44.8	+10.1	+0.0	+0.0	+0.5	+0.0	55.5	55.3	+0.2	Neutr
			+0.0	+0.1							
^	158.726k	44.5	+10.1	+0.0	+0.0	+0.9	+0.0	55.6	55.5	+0.1	Neutr
			+0.0	+0.1							
^	160.908k	44.2	+10.1	+0.0	+0.0	+0.6	+0.0	55.0	55.4	-0.4	Neutr
			+0.0	+0.1							
^	165.271k	43.9	+10.1	+0.0	+0.0	+0.4	+0.0	54.5	55.2	-0.7	Neutr
			+0.0	+0.1							
^	166.725k	41.0	+10.1	+0.0	+0.0	+0.4	+0.0	51.6	55.1	-3.5	Neutr
			+0.0	+0.1							



Test Setup Photos

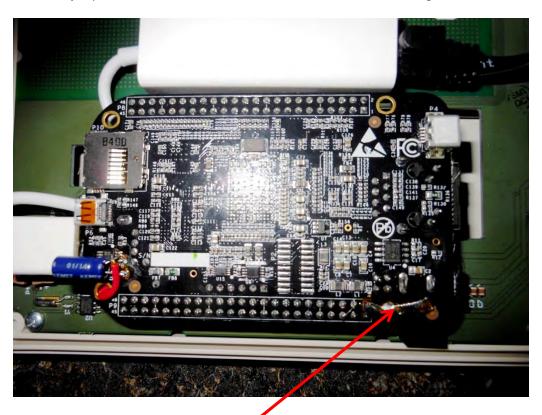






Appendix A Modifications Made During Testing

Installed a jumper on the transmitter PCB to establish a reference to chassis ground.



Location of jumper installed.



SUPPLEMENTAL INFORMATION

Measurement Uncertainty

Uncertainty Value	Parameter
4.73 dB	Radiated Emissions
3.34 dB	Mains Conducted Emissions
3.30 dB	Disturbance Power

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2. Compliance is deemed to occur provided measurements are below the specified limits.

Emissions Test Details

TESTING PARAMETERS

Unless otherwise indicated, the following configuration parameters are used for equipment setup: The cables were routed consistent with the typical application by varying the configuration of the test sample. Interface cables were connected to the available ports of the test unit. The effect of varying the position of the cables was investigated to find the configuration that produced maximum emissions. Cables were of the type and length specified in the individual requirements. The length of cable that produced maximum emissions was selected.

The equipment under test (EUT) was set up in a manner that represented its normal use, as shown in the setup photographs. Any special conditions required for the EUT to operate normally are identified in the comments that accompany the emissions tables.

The emissions data was taken with a spectrum analyzer or receiver. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in the table below. The corrected data was then compared to the applicable emission limits. Preliminary and final measurements were taken in order to ensure that all emissions from the EUT were found and maximized.

CORRECTION FACTORS

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in $dB\mu V/m$, the spectrum analyzer reading in $dB\mu V$ was corrected by using the following formula. This reading was then compared to the applicable specification limit. Individual measurements were compared with the displayed limit value in the margin column. The margin was calculated based on the limit value subtracting the corrected measured value; a negative margin represents a measurement less than the limit while a positive margin represents a measurement exceeding the limit.

SAMPLE CALCULATIONS					
	Meter reading	(dBμV)			
+	Antenna Factor	(dB/m)			
+	Cable Loss	(dB)			
-	Distance Correction	(dB)			
-	Preamplifier Gain	(dB)			
=	Corrected Reading	(dBμV/m)			

Page 46 of 47 Report No.: 97859-6



TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed were used to collect the emissions data. A spectrum analyzer or receiver was used for all measurements. Unless otherwise specified, the following table shows the measuring equipment bandwidth settings that were used in designated frequency bands. For testing emissions, an appropriate reference level and a vertical scale size of 10 dB per division were used.

MEASURING EQUIPMENT BANDWIDTH SETTINGS PER FREQUENCY RANGE						
TEST	BEGINNING FREQUENCY	ENDING FREQUENCY	BANDWIDTH SETTING			
CONDUCTED EMISSIONS	150 kHz	30 MHz	9 kHz			
RADIATED EMISSIONS	9 kHz	150 kHz	200 Hz			
RADIATED EMISSIONS	150 kHz	30 MHz	9 kHz			
RADIATED EMISSIONS	30 MHz	1000 MHz	120 kHz			
RADIATED EMISSIONS	1000 MHz	>1 GHz	1 MHz			

SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in the emissions tables indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "positive peak" detector mode. Whenever a "quasi-peak" or "average" reading was recorded, the measurement was annotated with a "QP" or an "Ave" on the appropriate rows of the data sheets. In cases where quasi-peak or average limits were employed and data exists for multiple measurement types for the same frequency then the peak measurement was retained in the report for reference, however the numbering for the affected row was removed and an arrow or caret ("^") was placed in the far left-hand column indicating that the row above takes precedence for comparison to the limit. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data.

Peak

In this mode, the spectrum analyzer or receiver recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature called "peak hold," the measurement device had the ability to measure intermittent or low duty cycle transient emission peak levels. In this mode the measuring device made a slow scan across the frequency band selected and measured the peak emission value found at each frequency across the band.

Quasi-Peak

Quasi-peak measurements were taken using the quasi-peak detector when the true peak values exceeded or were within 2 dB of a quasi-peak specification limit. Additional QP measurements may have been taken at the discretion of the operator.

Average

Average measurements were taken using the average detector when the true peak values exceeded or were within 2 dB of an average specification limit. Additional average measurements may have been taken at the discretion of the operator. If the specification or test procedure requires trace averaging, then the averaging was performed using 100 samples or as required by the specification. All other average measurements are performed using video bandwidth averaging. To make these measurements, the test engineer reduces the video bandwidth on the measuring device until the modulation of the signal is filtered out. At this point the measuring device is set into the linear mode and the scan time is reduced.

Page 47 of 47 Report No.: 97859-6