WaveLynx Technologies Corporation

REVISED TEST REPORT FOR 97029-15

Ethos Models: ET10-2, ET10-3, ET10-6, and ET10-7

Tested to The Following Standards:

FCC Part 15 Subpart C Sections:

15.207 & 15.225 (13.110-14.010 MHz)

Report No.: 97029-15A

Date of issue: January 18, 2018



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
Revision History	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	7
FCC Part 15 Subpart C	8
15.215(c) Occupied Bandwidth (20dB BW)	8
15.225(a)-(c) Field Strength of Fundamental	13
15.225(e) Frequency Stability	
15.225(d) Radiated Emissions	34
15.207 AC Conducted Emissions	49
APPENDIX A: Test Date 12/13-15/2017	82
Summary of Results	82
Modifications During Testing	82
Conditions During Testing	
Equipment Under Test	
General Product Information	83
15.225(a)-(c) Field Strength of Fundamental	84
15.225(d) Radiated Emissions	
Supplemental Information	
Measurement Uncertainty	
Emissions Tost Details	0



ADMINISTRATIVE INFORMATION

Test Report Information

REPORT PREPARED FOR: REPORT PREPARED BY:

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Representative: Daniel Field Project Number: 100602

Customer Reference Number: CKPO111017

DATE OF EQUIPMENT RECEIPT: March 15, 2016

DATE(S) OF TESTING:March 15 – May 10, 2016
December 13-15, 2017

Revision History

Original: Testing of the Ethos, models ET10-2, ET10-3, ET10-6, and ET10-7 to FCC Part 15 Subpart C Sections 15.207 & 15.225

Revision A: Partial testing of ET10-7 to FCC Part 15 Subpart C Section 15.225. For new test data see Appendix A.

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.

Steve I Belon

Page 3 of 96 Report No.: 97029-15A



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	5.03.02
EMITest Emissions	5.03.11

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

Page 4 of 96 Report No.: 97029-15A



SUMMARY OF RESULTS

Standard / Specification: FCC Part 15 Subpart C - 15.225

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

NA = Not Applicable

Modifications During Testing

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

Summary of Conditions

No modifications were made during testing.

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 96 Report No.: 97029-15A



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 2

Ea	uipn	ont	Tos	tod.
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Device	Manufacturer	Model #	S/N	
Ethos	WaveLynx Technologies	ET10-2	NA	
	Corporation			

Support Equipment:

Device	Manufacturer	Model #	S/N
DC Power Supply	HP	6205C	2228A01775

Configuration 3

Equipment Tested:

Device	Manufacturer	Model #	S/N
Ethos	WaveLynx Technologies	ET10-3	NA
	Corporation		

Support Equipment:

Device	Manufacturer	Model #	S/N
DC Power Supply	HP	6205C	2228A01775

Configuration 6

Equipment Tested:

Device	Manufacturer	Model #	S/N
Ethos	WaveLynx Technologies	ET10-6	NA
	Corporation		

Support Equipment:

Device	Manufacturer	Model #	S/N	
DC Power Supply	HP	6205C	2228A01775	

Configuration 7

Equipment Tested:

Device	Manufacturer	Model #	S/N
Ethos	WaveLynx Technologies	ET10-7	NA
	Corporation		

Support Equipment:

Device	Manufacturer	Model #	S/N
DC Power Supply	HP	6205C	2228A01775

Page 6 of 96 Report No.: 97029-15A



Configuration 10

Equipment Tested:

Device	Manufacturer	Model #	S/N
Ethos	WaveLynx Technologies Corporation	ET10-2	NA
Ethos	WaveLynx Technologies Corporation	ET10-3	NA

Support Equipment:

Device	Manufacturer	Model #	S/N
DC Power Supply	HP	6205C	2228A01775

Configuration 11

Equipment Tested:

Device	Manufacturer	Model #	S/N
Ethos	WaveLynx Technologies Corporation	ET10-6	NA
Ethos	WaveLynx Technologies Corporation	ET10-7	NA

Support Equipment:

Device	Manufacturer	Model #	S/N
DC Power Supply	HP	6205C	2228A01775

General Product Information:

Product Information	Manufacturer-Provided Details
Equipment Type: (All 4 EUTs)	Stand-Alone Equipment
Modulation Type(s): (All 4 EUTs)	ASK with an 847kHz Subcarrier
Maximum Duty Cycle: (Measured)	Configuration 2 = 65.83% Configuration 3 = 65.12% Configuration 6 = 63.86% Configuration 7 = 65.12%
Antenna Type(s) and Gain: (All 4 EUTS)	PCB Trace Antenna 30mm x 95mm / 2dBi
Antenna Connection Type: (All 4 EUTs)	Integral
Nominal Input Voltage: (All 4 EUTs	12VDC
Firmware / Software used for Test: (All 4 EUTs)	Wallmount Reader FCC LF Version 1

Page 7 of 96 Report No.: 97029-15A



FCC Part 15 Subpart C

15.215(c) Occupied Bandwidth (20dB BW)

	Test Setup / Conditions					
Test Location:	Mariposa Lab D	Test Engineer:	Benny Lovan			
Test Method:	ANSI C63.10 (2013)	Test Date(s):	March 15 – 18, 2016			
Configuration:	2, 3, 6 and 7					
Test Setup:	Configuration 2 (13.56MHz Only) -	– Measured in Y-Axis				
	Configuration 3 (Set for 13.56MHz	z) – Measured in X-Axis	5			
	Configuration 6 (13.56 MHz Only)	 Measured in X-Axis 				
	Configuration 7 (Set for 13.56 MH	z) – Measured in X-Axi	S			
	sideways (X-axis) orientation.	er supply at 12VDC. orthogonalities. Il only ever be wall r vorst case orientation in block.	nounted in an upright (Y-axis) or observed during the fundamental the RFID signal at 13.56MHz.			

Environmental Conditions					
	3/15/2016				
Temperature (ºC)	10	Relative Humidity (%):	85		
	3/17/2016				
Temperature (ºC)	11	Relative Humidity (%):	83		
3/18/2016					
Temperature (ºC)	11	Relative Humidity (%):	85		

Test Equipment						
Asset#	Description	Manufacturer	Model	Cal Date	Cal Due	
ANSITED 3M	Cable	NA	NA	11/15/2014	11/15/2016	
ANP06884	Cable	TMS	LMR195-FR-4	10/27/2015	10/27/2017	
AN00226	Loop Antenna	EMCO	6502	3/28/2014	3/28/2016	

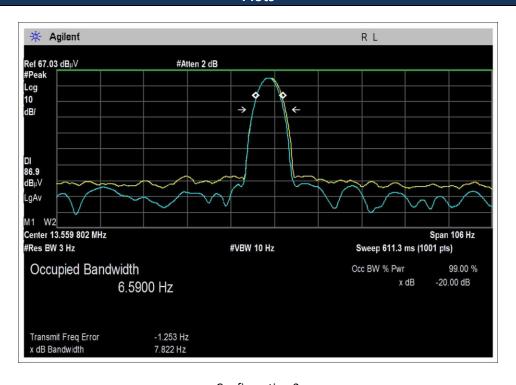
Page 8 of 96 Report No.: 97029-15A



Test Data Summary					
Frequency (MHz)	Antenna Port	Modulation	Measured (kHz)	Limit (kHz)	Results
13.56MHz (Config. 2)	Integral	ASK Modulation with an 847kHz subcarrier	0.007822	None	NA
13.56MHz (Config. 3)	Integral	ASK Modulation with an 847kHz subcarrier	0.007588	None	NA
13.56MHz (Config. 6)	Integral	ASK Modulation with an 847kHz subcarrier	0.007480	None	NA
13.56MHz (Config. 7)	Integral	ASK Modulation with an 847kHz subcarrier	0.007675	None	NA

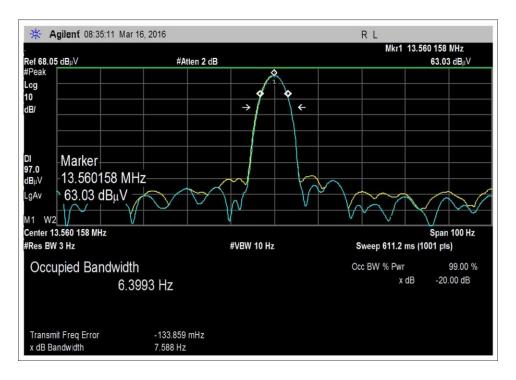
NA = Not Applicable

Plots

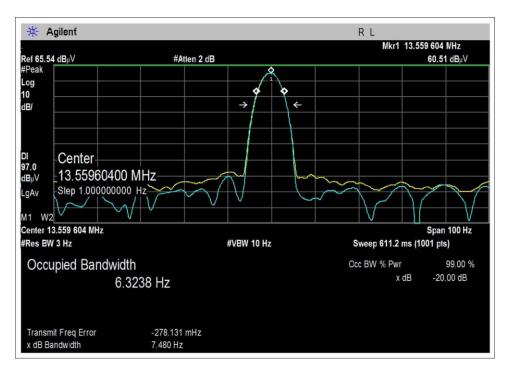


Configuration 2



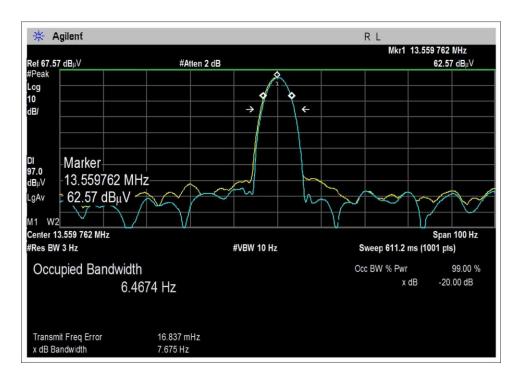


Configuration 3



Configuration 6





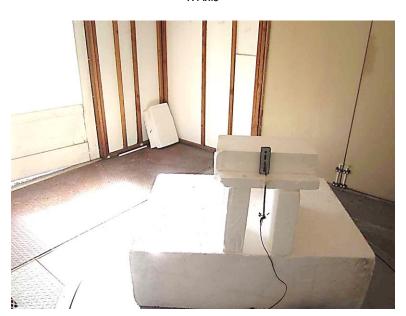
Configuration 7



Test Setup Photos



X Axis



Y Axis



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

Test Data Summary - Voltage Variations – Configuration 2						
Frequency (MHz)	Modulation / Ant Port	V _{Minimum} (dBuV/m)	V _{Nominal} (dBuV/m)	V _{Maximum} (dBuV/m)	Max Deviation from V _{Nominal} (dB)	
13.56 Parallel	ASK Modulation with an 847kHz subcarrier / Integral PCB Trace Antenna	32.7	32.8	32.7	0.1 dB	
13.56 Perpendicular	ASK Modulation with an 847kHz subcarrier / Integral PCB Trace Antenna	30.4	30.0	30.5	0.5 dB	

Test performed using operational mode with the highest output power, representing worst case. Worst case orientation for this unit was the X-Axis.

Test Data Summary - Voltage Variations – Configuration 3						
Frequency (MHz)	Modulation / Ant Port	V _{Minimum} (dBuV/m)	V _{Nominal} (dBuV/m)	V _{Maximum} (dBuV/m)	Max Deviation from V _{Nominal} (dB)	
13.56 Parallel	ASK Modulation with an 847kHz subcarrier / Integral PCB Trace Antenna	33.7	33.8	33.8	0.1 dB	
13.56 Perpendicular	ASK Modulation with an 847kHz subcarrier / Integral PCB Trace Antenna	30.2	30.3	30.2	0.1 dB	

Test performed using operational mode with the highest output power, representing worst case. Worst case orientation for this unit was the X-Axis.

	Test Data Summary - Voltage Variations – Configuration 6								
Frequency (MHz)	Modulation / Ant Port	V _{Minimum} (dBuV/m)	V _{Nominal} (dBuV/m)	V _{Maximum} (dBuV/m)	Max Deviation from V _{Nominal} (dB)				
13.56 Parallel	ASK Modulation with an 847kHz subcarrier / Integral PCB Trace Antenna	32.7	32.6	32.7	0.1 dB				
13.56 Perpendicular	ASK Modulation with an 847kHz subcarrier / Integral PCB Trace Antenna	29.0	29.0	28.8	0.2 dB				

Test performed using operational mode with the highest output power, representing worst case. Worst case orientation for this unit was the X-Axis.

Test Data Summary - Voltage Variations – Configuration 7								
Frequency (MHz)	Modulation / Ant Port	V _{Minimum} (dBuV/m)	V _{Nominal} (dBuV/m)	V _{Maximum} (dBuV/m)	Max Deviation from V _{Nominal} (dB)			
13.56 Parallel	ASK Modulation with an 847kHz subcarrier / Integral PCB Trace Antenna	33.2	33.4	33.2	0.2 dB			
13.56 Perpendicular	ASK Modulation with an 847kHz subcarrier / Integral PCB Trace Antenna	31.2	31.4	31.2	0.2 dB			

Page 13 of 96 Report No.: 97029-15A



Test performed using operational mode with the highest output power, representing worst case. Worst case orientation for this unit was the X-Axis.

Parameter Definitions:

Measurements performed at input voltage Vnominal ± 15%.

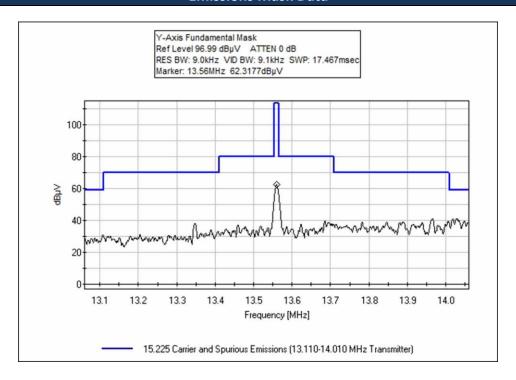
Parameter	Value
V _{Nominal} :	12.0 VAC
V _{Minimum} :	10.2 VAC
V _{Maximum} :	13.8 VAC

Test Data Summary – Radiated Field Strength Measurement								
Frequency (MHz)	Modulation	Ant. Type	Measured (dBuV/m @ 30m)	Limit (dBuV/m @ 30m)	Results			
		Configur	ation 2					
13.560 (Parallel)	ASK Modulation with an 847kHz subcarrier	Integral PCB Trace	32.8	≤ 84	Pass			
13.560 (Perpendicular)	ASK Modulation with an 847kHz subcarrier	Integral PCB Trace	30.0	≤ 84	Pass			
		Configur	ation 3					
13.560 (Parallel)	ASK Modulation with an 847kHz subcarrier Trace		33.8	≤ 84	Pass			
13.560 (Perpendicular)	l with an 8/17kHz		30.3	≤ 84	Pass			
		Configur	ation 6					
13.560 (Parallel)	ASK Modulation with an 847kHz subcarrier	Integral PCB Trace	32.6	≤ 84	Pass			
13.560 (Perpendicular)	ASK Modulation with an 847kHz subcarrier	Integral PCB Trace	29.0	≤ 84	Pass			
		Configur	ation 7					
I With an 84/kHz I		Integral PCB Trace	33.4	≤ 84	Pass			
13.560 (Perpendicular)	ASK Modulation with an 847kHz subcarrier	Integral PCB Trace	31.4	≤ 84	Pass			

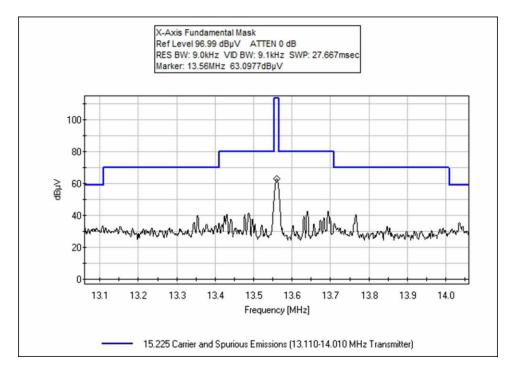
Page 14 of 96 Report No.: 97029-15A



Emissions Mask Data

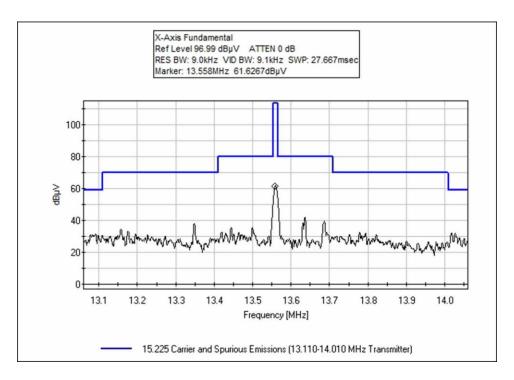


Configuration 2

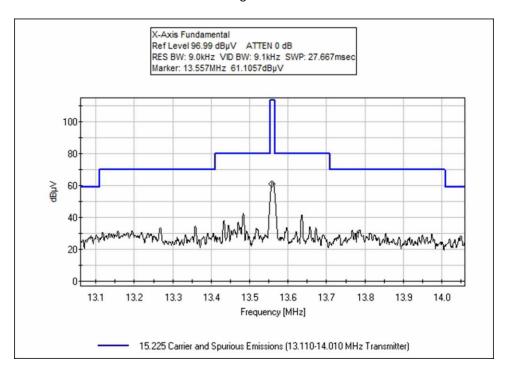


Configuration 3





Configuration 6



Configuration 7



Test Setup / Conditions / Data

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

Customer: WaveLynx Technologies Corporation

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

Work Order #: **97029** Date: 3/15/2016 Test Type: **Radiated Scan** Time: 15:16:50

Tested By: Benny Lovan Sequence#: 1

Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N	
Configuration 2				

Support Equipment:

Device	Manufacturer	Model #	S/N	
Configuration 2				

Test Conditions / Notes:

Radiated Emissions Fundamental Measurements

Temperature: 10°C Humidity: 85%

Atmospheric Pressure: 97 kPa

Method: ANSI C63.10 2013

13.56MHz Only, Measured in Y-Axis

Antenna Type: Integral

Modulation: ASK Modulation with an 847kHz subcarrier

The EUT is powered by a DC power supply at 12VDC. Max power was measured in two orthogonalities.

The manufacturer declares it will only ever be wall mounted in an upright (Y-axis) or sideways (X-axis) orientation. The Fundamental measurements were performed in both the X and Y axis orientations.

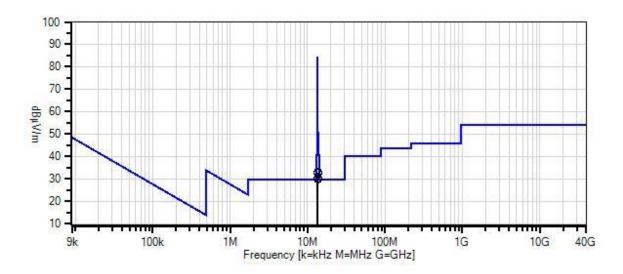
The EUT is setup on an 80cm foam block.

The EUT has been programmed to continuously transmit the RFID signal at 13.56MHz.

Page 17 of 96 Report No.: 97029-15A



WaveLynx Technologies Corporation WO#: 97029 Sequence#: 1 Date: 3/15/2016
15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter) Test Distance: 3 Meters Perpendicular



Readings

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

Software Version: 5.03.02

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



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANSITED 3M	Cable		11/15/2014	11/15/2016
T2	ANP06884	Cable	LMR195-FR-4	10/27/2015	10/27/2017
T3	AN00226	Loop Antenna	6502	3/28/2014	3/28/2016

Measurement Data:		Re	eading list	ted by ma	argin.		Τe	est Distanc	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3		Dist	Corr	Spec	Margin	Polar
	MHz	dΒμV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	13.560M	62.3	+0.7	+0.1	+9.7		-40.0	32.8	84.0	-51.2	Paral
									Y-Axis		
2	13.560M	62.3	+0.7	+0.1	+9.7		-40.0	32.8	84.0	-51.2	Paral
									X-axis		
3	13.560M	62.2	+0.7	+0.1	+9.7		-40.0	32.7	84.0	-51.3	Paral
									Y-Axis @		
									13.8VDC		
4	13.560M	62.2	+0.7	+0.1	+9.7		-40.0	32.7	84.0	-51.3	Paral
									Y-Axis @	10.2	
									VDC		
5	13.560M	60.0	+0.7	+0.1	+9.7		-40.0	30.5	84.0	-53.5	Perpe
									Y-Axis @		
									13.8VDC		
6	13.560M	59.9	+0.7	+0.1	+9.7		-40.0	30.4	84.0	-53.6	Perpe
									Y-Axis @	10.2	
									VDC		
7	13.559M	59.5	+0.7	+0.1	+9.7		-40.0	30.0	84.0	-54.0	Perpe
									Y-Axis		
8	13.560M	59.3	+0.7	+0.1	+9.7		-40.0	29.8	84.0	-54.2	Perpe
									X-Axis		



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

Customer: WaveLynx Technologies Corporation

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

Work Order #: 97029 Date: 3/17/2016
Test Type: Radiated Scan Time: 14:24:19
Tested By: Benny Lovan Sequence#: 1

Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N	
Configuration 3				

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 3			

Test Conditions / Notes:

Radiated Emissions Fundamental Measurements

Temperature: 11°C Humidity: 83%

Atmospheric Pressure: 97.4 kPa

Method: ANSI C63.10 2013

Set to 13.56MHz, Measured in X-Axis

Antenna Type: Integral

Modulation: ASK Modulation with an 847kHz subcarrier

The EUT is powered by a DC power supply at 12VDC. Max power was measured in two orthogonalities.

The manufacturer declares it will only ever be wall mounted in an upright (Y-axis) or sideways (X-axis) orientation. The Fundamental measurements were performed in both the X and Y axis orientations.

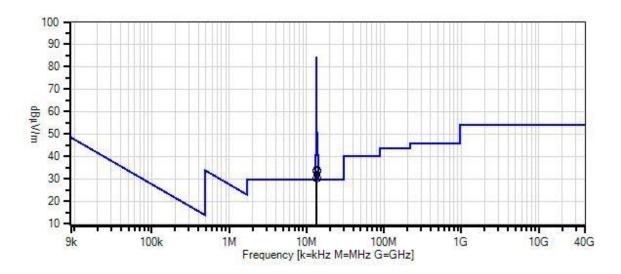
The EUT is setup on an 80cm foam block.

The EUT has been programmed to continuously transmit the RFID signal at 13.56MHz.

Page 20 of 96 Report No.: 97029-15A



WaveLynx Technologies Corporation WO#: 97029 Sequence#: 1 Date: 3/17/2016 15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter) Test Distance: 3 Meters Parallel



— Readings

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

Software Version: 5.03.02

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



Test Equipment:

ID	Asset # Description		Model	Calibration Date	Cal Due Date
T1	ANSITED 3M	Cable		11/15/2014	11/15/2016
T2	ANP06884	Cable	LMR195-FR-4	10/27/2015	10/27/2017
T3	AN00226	Loop Antenna	6502	3/28/2014	3/28/2016

Measure	ement Data:	Re	ading list	ted by ma	argin.		Те	est Distanc	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	13.560M	63.3	+0.7	+0.1	+9.7		-40.0	33.8	84.0	-50.2	Paral
									X-Axis @ VDC	13.8	
2	13.560M	63.3	+0.7	+0.1	+9.7		-40.0	33.8	84.0	-50.2	Paral
									X-Axis		
3	13.560M	63.2	+0.7	+0.1	+9.7		-40.0	33.7	84.0	-50.3	Paral
									X-Axis @	10.2	
									VDC		
4	13.560M	62.7	+0.7	+0.1	+9.7		-40.0	33.2	84.0	-50.8	Paral
									Y-Axis		
5	13.559M	60.0	+0.7	+0.1	+9.7		-40.0	30.5	84.0	-53.5	Perpe
									Y-Axis		
6	13.560M	59.8	+0.7	+0.1	+9.7		-40.0	30.3	84.0	-53.7	Perpe
									X-Axis		
7	13.560M	59.7	+0.7	+0.1	+9.7		-40.0	30.2	84.0	-53.8	Perpe
									X-Axis @		
									13.8VDC		
8	13.560M	59.7	+0.7	+0.1	+9.7		-40.0	30.2	84.0	-53.8	Perpe
									X-Axis @	10.2	
									VDC		



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

Customer: WaveLynx Technologies Corporation

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

Work Order #: 97029 Date: 3/18/2016
Test Type: Radiated Scan Time: 09:19:55
Tested By: Benny Lovan Sequence#: 1

Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N	
Configuration 6				

Support Equipment:

Device	Manufacturer	Model #	S/N	
Configuration 6				

Test Conditions / Notes:

Radiated Emissions Fundamental Measurements

Temperature: 11°C Humidity: 85%

Atmospheric Pressure: 96.8 kPa

Method: ANSI C63.10 (2013)

13.56MHz with BLE, Measured in X-Axis

Antenna Type: Integral

Modulation: ASK Modulation with an 847kHz subcarrier

The EUT is powered by a DC power supply at 12VDC. Max power was measured in two orthogonalities.

The manufacturer declares it will only ever be wall mounted in an upright (Y-axis) or sideways (X-axis) orientation. The Fundamental measurements were performed in both the X and Y axis orientations.

orientation. The fundamental measurements were performed in both the X and T axis orient

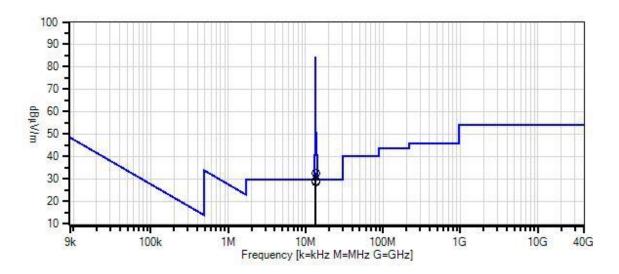
The EUT is setup on an 80cm foam block.

The EUT has been programmed to continuously transmit the RFID signal at 13.56MHz.

Page 23 of 96 Report No.: 97029-15A



WaveLynx Technologies Corporation WO#: 97029 Sequence#: 1 Date: 3/18/2016 15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter) Test Distance: 3 Meters Parallel



Readings

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

Software Version: 5.03.02

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



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANSITED 3M	Cable		11/15/2014	11/15/2016
T2	ANP06884	Cable	LMR195-FR-4	10/27/2015	10/27/2017
T3	AN00226	Loop Antenna	6502	3/28/2014	3/28/2016

Measure	ement Data:	Re	eading list	ted by ma	argin.		Τe	est Distanc	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	13.560M	62.2	+0.7	+0.1	+9.7		-40.0	32.7	84.0	-51.3	Paral
									X-Axis @ 10.2VDC		
2	13.560M	62.2	+0.7	+0.1	+9.7		-40.0	32.7	84.0	-51.3	Paral
									X-Axis @ 13.8VDC		
3	13.560M	62.1	+0.7	+0.1	+9.7		-40.0	32.6	84.0	-51.4	Paral
									X-Axis		
4	13.560M	61.8	+0.7	+0.1	+9.7		-40.0	32.3	84.0	-51.7	Paral
									Y-Axis		
5	13.560M	58.5	+0.7	+0.1	+9.7		-40.0	29.0	84.0	-55.0	Perpe
									X-Axis		
6	13.560M	58.5	+0.7	+0.1	+9.7		-40.0	29.0	84.0	-55.0	Perpe
									X-Axis @	10.2	
									VDC		
7	13.560M	58.4	+0.7	+0.1	+9.7		-40.0	28.9	84.0	-55.1	Perpe
									Y-Axis		
8	13.559M	58.3	+0.7	+0.1	+9.7		-40.0	28.8	84.0	-55.2	Perpe
									X-Axis @		
									13.8VDC		



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

Customer: WaveLynx Technologies Corporation

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

Work Order #: 97029 Date: 3/18/2016
Test Type: Radiated Scan Time: 10:57:47
Tested By: Benny Lovan Sequence#: 1

Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N	
Configuration 7				

Support Equipment:

Device	Manufacturer	Model #	S/N	
Configuration 7				

Test Conditions / Notes:

Radiated Emissions Fundamental Measurements

Temperature:11°C Humidity: 85%

Atmospheric Pressure: 96.8 kPa

Method: ANSI C63.10 (2013)

Set to 13.56MHz with BLE, Measured in X-Axis

Antenna Type: Integral

Modulation: ASK Modulation with an 847kHz subcarrier

The EUT is powered by a DC power supply at 12VDC. Max power was measured in two orthogonalities.

The manufacturer declares it will only ever be wall mounted in an upright (Y-axis) or sideways (X-axis) orientation. The Fundamental measurements were performed in both the X and Y axis orientations.

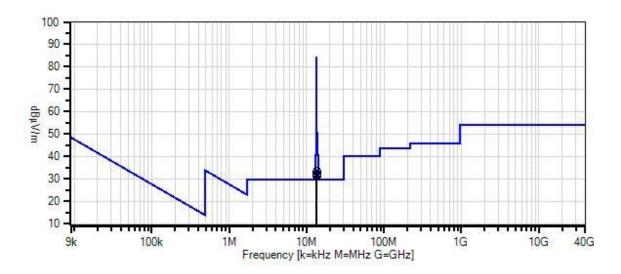
The EUT is setup on an 80cm foam block.

The EUT has been programmed to continuously transmit the RFID signal at 13.56MHz.

Page 26 of 96 Report No.: 97029-15A



WaveLynx Technologies Corporation WO#: 97029 Sequence#: 1 Date: 3/18/2016 15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter) Test Distance: 3 Meters Parallel



Readings

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

Software Version: 5.03.02

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



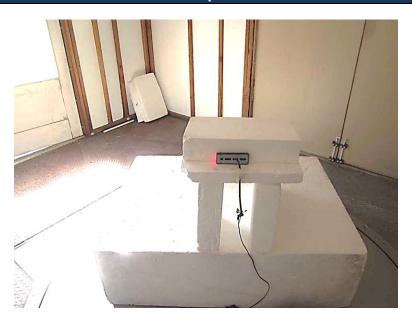
Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANSITED 3M	Cable		11/15/2014	11/15/2016
T2	ANP06884	Cable	LMR195-FR-4	10/27/2015	10/27/2017
T3	AN00226	Loop Antenna	6502	3/28/2014	3/28/2016

Measure	ement Data:	Re	eading list	ed by ma	argin.		Τe	est Distanc	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3		Dist	Corr	Spec	Margin	Polar
	MHz	dΒμV	dB	dB	dB	dB	Table	$dB\muV/m$	$dB\mu V/m \\$	dB	Ant
1	13.560M	62.9	+0.7	+0.1	+9.7		-40.0	33.4	84.0	-50.6	Paral
									X-Axis		
2	13.560M	62.8	+0.7	+0.1	+9.7		-40.0	33.3	84.0	-50.7	Paral
									Y-Axis		
3	13.560M	62.7	+0.7	+0.1	+9.7		-40.0	33.2	84.0	-50.8	Paral
									X-Axis @	13.8	
									VDC		
4	13.560M	62.7	+0.7	+0.1	+9.7		-40.0	33.2	84.0	-50.8	Paral
									X-Axis @		
									10.2VDC		
5	13.560M	61.5	+0.7	+0.1	+9.7		-40.0	32.0	84.0	-52.0	Perpe
									Y-Axis		
6	13.559M	60.9	+0.7	+0.1	+9.7		-40.0	31.4	84.0	-52.6	Perpe
									X-Axis		
7	13.560M	60.7	+0.7	+0.1	+9.7		-40.0	31.2	84.0	-52.8	Perpe
									X-Axis @		
									13.8VDC		
8	13.560M	60.7	+0.7	+0.1	+9.7		-40.0	31.2	84.0	-52.8	Perpe
									X-Axis @		
									10.2VDC		



Test Setup Photos



X Axis



Y Axis



15.225(e) Frequency Stability

Test Setup / Conditions							
Test Location:	Mariposa Lab A	Test Engineer:	Benny Lovan				
Test Method:	ANSI C63.10 (2013)	Test Date(s):	April 4-5, 2016				
Configuration:	6 and 7						
Test Setup:	Configurations 6 and 7 were teste	d simultaneously with	n the temperature chamber.				
	The manufacturer declares that Configurations 6 and 7 are worse case and testing						
	performed on these would satisfy	the testing for Configu	urations 2 and 3.				

Environmental Conditions						
4/4/2016						
Temperature (°C) 19.5 Relative Humidity (%): 52						
	4/5/2016					
Temperature (°C) 19.5 Relative Humidity (%): 52						

	Test Equipment								
Asset#	Description	Manufacturer	Model	Cal Date	Cal Due				
03197	Multimeter	Extech	MM570A	9/14/2014	9/14/2016				
02668	Spectrum Analyzer	Agilent	E4446A	8/14/2015	8/14/2016				
02242	Thermometer	Omega	HH-26K	5/2/2014	5/2/2016				
01879	Temperature Chamber	Thermotron	S-1.2 Min.	12/5/2014	12/5/2016				
00170	Loop Antenna	Solar	7334-1	NCR	NCR				

NCR = No Calibration Required

Page 30 of 96 Report No.: 97029-15A



	Frequency Stability Test Data Summary - Configuration 6								
Temperatu re (ºC)	Voltage	Frequency (MHz)	Deviation (%)	Limit (%)	Results				
-20	$V_{Nominal}$	13.5598	-0.00147	±0.01					
-10	V _{Nominal}	13.5598	-0.00147	±0.01					
0	V _{Nominal}	13.5597	-0.00221	±0.01					
10	V _{Nominal}	13.5597	-0.00221	±0.01					
20	$V_{Minimum}$	13.5597	-0.00221	±0.01	Pass				
20	V _{Nominal}	13.5596	-0.00295	±0.01	Pass				
20	V _{Maximum}	13.5596	-0.00295	±0.01					
30	V _{Nominal}	13.5596	-0.00295	±0.01					
40	$V_{Nominal}$	13.5596	-0.00295	±0.01					
50	$V_{Nominal}$	13.560	0.00000	±0.01					
Nomina	Frequency:	13.560000		•	•				

Frequency Stability Test Data Summary - Configuration 7								
Temperature (ºC) Voltage		Frequency (MHz)	Deviation (%)	Limit (%)	Results			
-20	$V_{Nominal}$	13.5597	-0.00221	±0.01				
-10	$V_{Nominal}$	13.5600	0.00000	±0.01				
0	$V_{Nominal}$	13.5597	-0.00221	±0.01				
10	$V_{Nominal}$	13.5597	-0.00221	±0.01				
20	$V_{Minimum}$	13.5595	-0.00369	±0.01	Pass			
20	$V_{Nominal}$	13.5595	-0.00369	±0.01	F a 5 5			
20	$V_{Maximum}$	13.5594	-0.00442	±0.01				
30	$V_{Nominal}$	13.5595	-0.00369	±0.01				
40	$V_{Nominal}$	13.56	0.00000	±0.01				
50	50 V _{Nominal}		0.00000	±0.01				
Nominal I	requency:	13.560000		•				

<u>Parameter Definitions:</u>
Measurements performed at input voltage Vnominal ± 15%.

Parameter	Value
V _{Nominal} :	12 VDC
V _{Minimum} :	10.2 VDC
V _{Maximum} :	13.8 VDC

Page 31 of 96 Report No.: 97029-15A



Test Setup Photos













15.225(d) Radiated Emissions

Test Setup / Conditions / Data

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

Customer: WaveLvnx Technologies Corporation

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

Work Order #: 97029 Date: 3/22/2016
Test Type: Radiated Scan Time: 10:52:30
Tested By: Benny Lovan Sequence#: 4

Tested By: Benny Lovan Software: EMITest 5.03.02

Equipment Tested:

Device Manufacturer Model # S/N
Configuration 10

Support Equipment:

Device Manufacturer Model # S/N
Configuration 10

Test Conditions / Notes:

Radiated Emissions Spurious Measurements 9kHz - 30MHz

Temperature: 10°C Humidity: 68%

Atmospheric Pressure: 97.8 kPa

Method: ANSI C63.10 2013

Highest Generated Frequency: 27.12 MHz Both EUTs are running at 13.56MHz.

The EUT is powered by a DC power supply at 12VDC.

Spurious was measured on two EUTs at one time.

Configuration 10 is made up of Configuration 2 and Configuration 3 (Testing at the same time).

Configuration 2 is in Y-axis and Configuration 3 is in the X-axis.

Preliminary measurements of the fundamental were taken in two orientations. The orientation that displayed the highest emissions was the orientation used for radiated spurious emissions.

The manufacturer declares it will only ever be wall mounted in an upright (Y-axis) or sideways (X-axis) orientation.

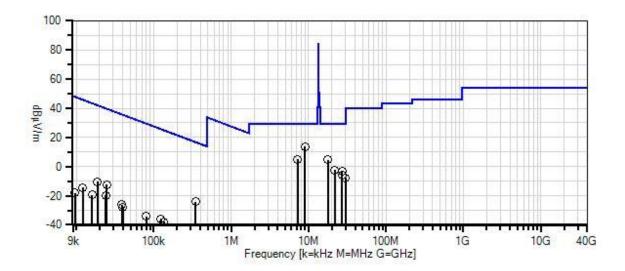
The EUT is setup on an 0.80 meter foam block.

The EUT is setup to continuously transmit at 13.56MHz

Page 34 of 96 Report No.: 97029-15A



WaveLynx Technologies Corporation WO#: 97029 Sequence#: 4 Date: 3/22/2016
15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter) Test Distance: 3 Meters Perpendicular



Readings

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

Software Version: 5.03.02

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



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANSITED 3M	Cable		11/15/2014	11/15/2016
T2	ANP06884	Cable	LMR195-FR-4	10/27/2015	10/27/2017
T3	AN00226	Loop Antenna	6502	3/28/2014	3/28/2016

Measur	ement Data:	Re	ading list	ted by ma	argin.		Τe	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	JD.	Dist	Corr	Spec	Margin	Polar
1	MHz	dBμV	dB	dB	dB	dB	Table	•	dBμV/m	dB	Ant
1	8.970M	43.1	+0.6	+0.1	+10.1		-40.0	13.9	29.5	-15.6	Perpe
2	7.243M	34.2	+0.5	+0.1	+10.1		-40.0	4.9	29.5	-24.6	Paral
3	17.654M	35.0	+0.8	+0.1	+8.8		-40.0	4.7	29.5	-24.8	Perpe
4	21.674M	28.7	+0.9	+0.1	+8.1		-40.0	-2.2	29.5	-31.7	Perpe
5	27.121M	28.7	+1.0	+0.1	+7.2		-40.0	-3.0	29.5	-32.5	Paral
6	27.124M	25.8	+1.0	+0.1	+7.2		-40.0	-5.9	29.5	-35.4	Perpe
7	29.916M	24.7	+1.0	+0.1	+6.5		-40.0	-7.7	29.5	-37.2	Paral
8	344.900k	45.5	+0.1	+0.0	+10.2		-80.0	-24.2	16.8	-41.0	Paral
9	24.825k	54.6	+0.0	+0.0	+13.0		-80.0	-12.4	39.7	-52.1	Perpe
10	18.615k	55.5	+0.0	+0.0	+14.2		-80.0	-10.3	42.2	-52.5	Perpe
11	23.965k	47.3	+0.0	+0.0	+13.1		-80.0	-19.6	40.0	-59.6	Paral
12	12.070k	49.3	+0.0	+0.0	+16.4		-80.0	-14.3	46.0	-60.3	Perpe
13	124.215k	33.0	+0.1	+0.0	+10.9		-80.0	-36.0	25.7	-61.7	Perpe
14	38.600k	42.2	+0.0	+0.0	+11.8		-80.0	-26.0	35.9	-61.9	Paral
15	135.340k	31.4	+0.1	+0.0	+10.7		-80.0	-37.8	25.0	-62.8	Perpe
16	15.960k	45.7	+0.0	+0.0	+15.0		-80.0	-19.3	43.5	-62.8	Paral
17	79.660k	35.0	+0.1	+0.0	+10.9		-80.0	-34.0	29.6	-63.6	Perpe
18	39.655k	40.1	+0.0	+0.0	+11.7		-80.0	-28.2	35.6	-63.8	Perpe
19	9.645k	44.6	+0.0	+0.0	+17.4		-80.0	-18.0	47.9	-65.9	Perpe



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

Customer: WaveLynx Technologies Corporation

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

Work Order #: 97029 Date: 4/1/2016
Test Type: Radiated Scan Time: 16:06:26
Tested By: Benny Lovan Sequence#: 6

Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N	
Configuration 10				

Support Equipment:

Device	Manufacturer	Model #	S/N	
Configuration 10				

Test Conditions / Notes:

Radiated Emissions Spurious Measurements 30MHz - 1GHz

Temperature: 12.2°C Humidity: 64%

Atmospheric Pressure: 98.5 kPa

Method: ANSI C63.10 2013

Highest Generated Frequency: 27.12 MHz Both EUTs are running at 13.56MHz.

The EUT is powered by a DC power supply at 12VDC.

Spurious was measured on two EUTs at one time.

Configuration 10 is made up of Configuration 2 and Configuration 3 (Testing at the same time).

Configuration 2 is in Y-axis and Configuration 3 is in the X-axis.

Preliminary measurements of the fundamental were taken in two orientations. The orientation that displayed the highest emissions was the orientation used for radiated spurious emissions.

The manufacturer declares it will only ever be wall mounted in an upright (Y-axis) or sideways (X-axis) orientation.

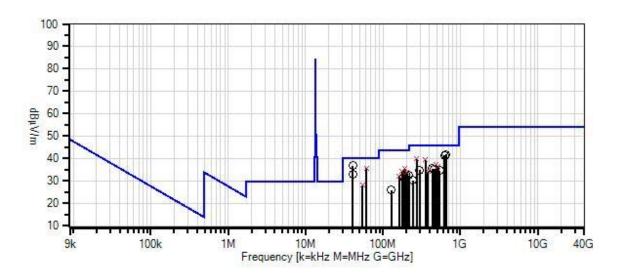
The EUT is setup on an 0.80 meter foam block.

The EUT is setup to continuously transmit at 13.56MHz

Page 37 of 96 Report No.: 97029-15A



WaveLynx Technologies Corporation WO#: 97029 Sequence#: 6 Date: 4/1/2016 15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter) Test Distance: 3 Meters Vert



Readings

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

Software Version: 5.03.02

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



ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00282	Preamp	8447D	4/7/2014	4/7/2016
T2	ANSITED 3M	Cable		11/15/2014	11/15/2016
T3	ANP06884	Cable	LMR195-FR-4	10/27/2015	10/27/2017
T4	ANP06885	Cable	P06885	10/27/2015	10/27/2017
T5	AN01991	Biconilog Antenna	CBL6111C	3/11/2016	3/11/2018

Measu	rement Data:	Re	eading lis	ted by ma	ırgin.		Te	est Distance	e: 3 Meters	1	
#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dΒμV	dB	dB	dB	dB	Table	$dB\mu V/m \\$	$dB\mu V/m$	dB	Ant
1	40.685M	49.2	-28.1 +14.1	+1.2	+0.1	+0.2	+0.0	36.7	40.0	-3.3	Vert
2	650.859M	43.2	-28.4 +20.7	+5.3	+0.5	+0.5	+0.0	41.8	46.0	-4.2	Vert
3	61.018M QP	55.9	-28.0 +5.9	+1.5	+0.1	+0.2	+0.0	35.6	40.0	-4.4	Vert
٨	61.013M	56.7	-28.0 +5.9	+1.5	+0.1	+0.2	+0.0	36.4	40.0	-3.6	Vert
5	623.739M	43.3	-28.4 +20.3	+5.2	+0.4	+0.5	+0.0	41.3	46.0	-4.7	Vert
6	271.193M QP	50.2	-27.2 +12.8	+3.3	+0.3	+0.4	+0.0	39.8	46.0	-6.2	Vert
٨	271.194M	50.7	-27.2 +12.8	+3.3	+0.3	+0.4	+0.0	40.3	46.0	-5.7	Vert
8	352.548M QP	47.4	-27.5 +14.9	+3.8	+0.4	+0.4	+0.0	39.4	46.0	-6.6	Vert
^	352.548M	49.6	-27.5 +14.9	+3.8	+0.4	+0.4	+0.0	41.6	46.0	-4.4	Vert
10	40.681M	45.3	-28.1 +14.1	+1.2	+0.1	+0.2	+0.0	32.8	40.0	-7.2	Vert
11	189.838M QP	50.7	-27.5 +9.0	+2.7	+0.3	+0.3	+0.0	35.5	43.5	-8.0	Vert
٨	189.835M	51.5	-27.5 +9.0	+2.7	+0.3	+0.3	+0.0	36.3	43.5	-7.2	Vert
13	488.154M QP	42.3	-28.3 +17.8	+4.5	+0.4	+0.5	+0.0	37.2	46.0	-8.8	Vert
٨	488.152M	43.4	-28.3 +17.8	+4.5	+0.4	+0.5	+0.0	38.3	46.0	-7.7	Vert



15 176.280M	49.5	-27.6	+2.6	+0.2	+0.3	+0.0	34.3	43.5	-9.2	Vert
QP		+9.3								
^ 176.274M	50.6	-27.6	+2.6	+0.2	+0.3	+0.0	35.4	43.5	-8.1	Vert
		+9.3								
17 515.272M	41.1	-28.4	+4.7	+0.4	+0.5	+0.0	36.6	46.0	-9.4	Vert
QP		+18.3								
^ 515.276M	42.0	-28.4	+4.7	+0.4	+0.5	+0.0	37.5	46.0	-8.5	Vert
		+18.3								
19 203.412M	48.8	-27.4	+2.8	+0.3	+0.3	+0.0	34.0	43.5	-9.5	Vert
QP		+9.2								
^ 203.407M	51.4	-27.4	+2.8	+0.3	+0.3	+0.0	36.6	43.5	-6.9	Vert
		+9.2								
21 433.899M	41.5	-28.0	+4.2	+0.4	+0.5	+0.0	35.4	46.0	-10.6	Vert
		+16.8								
22 196.619M	48.0	-27.4	+2.8	+0.3	+0.3	+0.0	32.9	43.5	-10.6	Vert
		+8.9								
23 461.035M	40.8	-28.1	+4.4	+0.4	+0.5	+0.0	35.3	46.0	-10.7	Vert
		+17.3								
24 298.317M	44.5	-27.2	+3.4	+0.4	+0.4	+0.0	34.9	46.0	-11.1	Vert
		+13.4								
25 542.392M	38.5	-28.5	+4.8	+0.4	+0.5	+0.0	34.6	46.0	-11.4	Vert
		+18.9								
26 162.728M	46.1	-27.6	+2.5	+0.2	+0.3	+0.0	31.9	43.5	-11.6	Vert
QP		+10.4								
^ 162.729M	47.0	-27.6	+2.5	+0.2	+0.3	+0.0	32.8	43.5	-10.7	Vert
		+10.4								
28 183.054M	46.9	-27.5	+2.6	+0.2	+0.3	+0.0	31.7	43.5	-11.8	Vert
		+9.2								
29 379.674M	41.6	-27.7	+3.9	+0.4	+0.4	+0.0	34.2	46.0	-11.8	Vert
QP		+15.6								
^ 379.675M	42.5	-27.7	+3.9	+0.4	+0.4	+0.0	35.1	46.0	-10.9	Vert
		+15.6								
31 54.238M	47.1	-28.0	+1.4	+0.1	+0.2	+0.0	28.1	40.0	-11.9	Vert
QP		+7.3								
^ 54.234M	50.6	-28.0	+1.4	+0.1	+0.2	+0.0	31.6	40.0	-8.4	Vert
		+7.3								
33 216.946M	45.9	-27.3	+2.9	+0.3	+0.4	+0.0	32.3	46.0	-13.7	Vert
		+10.1								
34 244.082M	41.9	-27.3	+3.1	+0.3	+0.4	+0.0	30.3	46.0	-15.7	Vert
		+11.9								
35 128.804M	39.2	-27.8	+2.2	+0.2	+0.3	+0.0	25.8	43.5	-17.7	Vert
		+11.7								
-										



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

Customer: WaveLynx Technologies Corporation

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

Work Order #: 97029 Date: 3/22/2016
Test Type: Radiated Scan Time: 09:03:33
Tested By: Benny Lovan Sequence#: 3

Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N	
Configuration 11				

Support Equipment:

Device	Manufacturer	Model #	S/N	
Configuration 11				

Test Conditions / Notes:

Radiated Emissions Spurious Measurements 9kHz – 30MHz

Temperature: 10°C Humidity: 71%

Atmospheric Pressure: 98.0 kPa

Method: ANSI C63.10 2013

Highest Generated Frequency: 27.12 MHz Both EUTs are running at 13.56MHz.

The EUT is powered by a DC power supply at 12VDC.

Spurious was measured on two EUTs at one time.

Configuration 11 is made up of Configuration 6 and Configuration 7 (Testing at the same time).

Configuration 6 is in X-axis and Configuration 7 is in the X-axis.

Preliminary measurements of the fundamental were taken in two orientations. The orientation that displayed the highest emissions was the orientation used for radiated spurious emissions.

The manufacturer declares it will only ever be wall mounted in an upright (Y-axis) or sideways (X-axis) orientation.

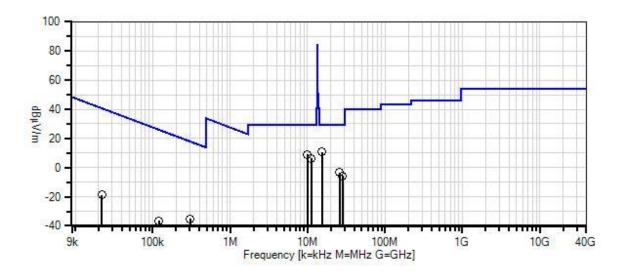
The EUT is setup on an 0.80 meter foam block.

The EUT is setup to continuously transmit at 13.56MHz

Page 41 of 96 Report No.: 97029-15A



WaveLynx Technologies Corporation WO#: 97029 Sequence#: 3 Date: 3/22/2016 15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter) Test Distance: 3 Meters Parallel



— Readings

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

Software Version: 5.03.02

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



ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANSITED 3M	Cable		11/15/2014	11/15/2016
T2	ANP06884	Cable	LMR195-FR-4	10/27/2015	10/27/2017
T3	AN00226	Loop Antenna	6502	3/28/2014	3/28/2016

Measur	ement Data:	Re	ading lis	ted by ma	argin.		Τe	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3		Dist	Corr	Spec	Margin	Polar
	\overline{MHz}	dΒμV	dB	dB	dB	dB	Table	$dB\muV/m$	$dB\mu V/m$	dB	Ant
1	15.440M	40.6	+0.7	+0.1	+9.5		-40.0	10.9	29.5	-18.6	Perpe
2	9.901M	38.2	+0.6	+0.1	+10.1		-40.0	9.0	29.5	-20.5	Paral
3	11.229M	35.6	+0.6	+0.1	+10.0		-40.0	6.3	29.5	-23.2	Perpe
4	25.813M	28.0	+0.9	+0.1	+7.6		-40.0	-3.4	29.5	-32.9	Perpe
5	28.379M	26.2	+1.0	+0.1	+6.9		-40.0	-5.8	29.5	-35.3	Paral
6	304.958k	34.5	+0.1	+0.0	+10.2		-80.0	-35.2	17.9	-53.1	Perpe
7	21.857k	47.9	+0.0	+0.0	+13.5		-80.0	-18.6	40.8	-59.4	Paral
8	120.320k	32.5	+0.1	+0.0	+10.9		-80.0	-36.5	26.0	-62.5	Paral



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

Customer: WaveLynx Technologies Corporation

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

Work Order #: 97029 Date: 3/31/2016
Test Type: Radiated Scan Time: 14:56:54
Tested By: Benny Lovan Sequence#: 6

Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N	
Configuration 11				

Support Equipment:

Device	Manufacturer	Model #	S/N	
Configuration 11				

Test Conditions / Notes:

Radiated Emissions Spurious Measurements 30MHz - 1GHz

Temperature: 12.2°C Humidity: 64%

Atmospheric Pressure: 98.5 kPa

Method: ANSI C63.10 2013

Highest Generated Frequency: 27.12 MHz Both EUTs are running at 13.56MHz.

The EUT is powered by a DC power supply at 12VDC.

Spurious was measured on two EUTs at one time.

Configuration 11 is made up of Configuration 6 and Configuration 7 (Testing at the same time).

Configuration 6 is in X-axis and Configuration 7 is in the X axis.

Preliminary measurements of the fundamental were taken in two orientations. The orientation that displayed the highest emissions was the orientation used for radiated spurious emissions.

The manufacturer declares it will only ever be wall mounted in an upright (Y-axis) or sideways (X-axis) orientation.

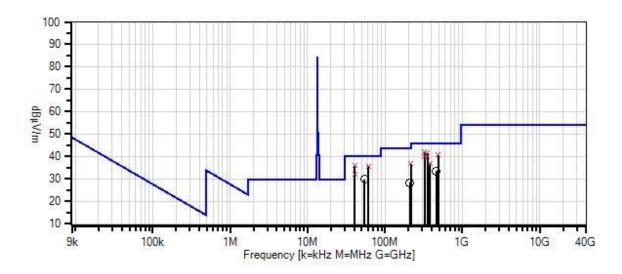
The EUT is setup on an 0.80 meter foam block.

The EUT is setup to continuously transmit at 13.56MHz

Page 44 of 96 Report No.: 97029-15A



WaveLynx Technologies Corporation WO#: 97029 Sequence#: 6 Date: 3/31/2016 15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter) Test Distance: 3 Meters Vert



— Readings

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

Software Version: 5.03.02

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



ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00282	Preamp	8447D	4/7/2014	4/7/2016
T2	ANSITED 3M	Cable		11/15/2014	11/15/2016
T3	ANP06884	Cable	LMR195-FR-4	10/27/2015	10/27/2017
T4	ANP06885	Cable	P06885	10/27/2015	10/27/2017
T5	AN01991	Biconilog Antenna	CBL6111C	3/11/2016	3/11/2018

Measu	rement Data:	Re	eading lis	ted by ma	argin.		Τe	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5								
	MHz	dΒμV	dB	dB	dB	dB	Table	$dB\muV/m$	$dB\mu V/m$	dB	Ant
1	325.432M	50.9	-27.4	+3.6	+0.3	+0.4	+0.0	42.0	46.0	-4.0	Vert
	QP		+14.2								
^	325.431M	51.2	-27.4	+3.6	+0.3	+0.4	+0.0	42.3	46.0	-3.7	Vert
			+14.2								
3	40.684M	48.3	-28.1	+1.2	+0.1	+0.2	+0.0	35.8	40.0	-4.2	Vert
	QP		+14.1								
4	61.020M	56.0	-28.0	+1.5	+0.1	+0.2	+0.0	35.7	40.0	-4.3	Vert
	QP		+5.9								
^	61.014M	56.6	-28.0	+1.5	+0.1	+0.2	+0.0	36.3	40.0	-3.7	Vert
			+5.9								
6	352.553M	49.6	-27.5	+3.8	+0.4	+0.4	+0.0	41.6	46.0	-4.4	Vert
	QP		+14.9								
٨	352.550M	50.2	-27.5	+3.8	+0.4	+0.4	+0.0	42.2	46.0	-3.8	Vert
			+14.9								
8	488.148M	45.7	-28.3	+4.5	+0.4	+0.5	+0.0	40.6	46.0	-5.4	Vert
	QP		+17.8								
^	488.136M	46.5	-28.3	+4.5	+0.4	+0.5	+0.0	41.4	46.0	-4.6	Vert
			+17.8								
10	325.433M	49.0	-27.4	+3.6	+0.3	+0.4	+0.0	40.1	46.0	-5.9	Horiz
	QP		+14.2								
^	325.433M	49.4	-27.4	+3.6	+0.3	+0.4	+0.0	40.5	46.0	-5.5	Horiz
			+14.2								
12	352.551M	48.0	-27.5	+3.8	+0.4	+0.4	+0.0	40.0	46.0	-6.0	Horiz
	QP		+14.9								
^	352.549M	48.4	-27.5	+3.8	+0.4	+0.4	+0.0	40.4	46.0	-5.6	Horiz
			+14.9								



14	40.665M	44.7	-28.1	+1.2	+0.1	+0.2	+0.0	32.2	40.0	-7.8	Vert
(QP		+14.1								
٨	40.665M	51.0	-28.1	+1.2	+0.1	+0.2	+0.0	38.5	40.0	-1.5	Vert
			+14.1								
٨	40.674M	50.5	-28.1	+1.2	+0.1	+0.2	+0.0	38.0	40.0	-2.0	Vert
			+14.1								
17	216.956M	50.5	-27.3	+2.9	+0.3	+0.4	+0.0	36.9	46.0	-9.1	Horiz
(QP		+10.1								
٨	216.954M	50.7	-27.3	+2.9	+0.3	+0.4	+0.0	37.1	46.0	-8.9	Horiz
			+10.1								
19	379.673M	44.2	-27.7	+3.9	+0.4	+0.4	+0.0	36.8	46.0	-9.2	Vert
(QP		+15.6								
^	379.667M	45.1	-27.7	+3.9	+0.4	+0.4	+0.0	37.7	46.0	-8.3	Vert
			+15.6								
21	54.229M	48.7	-28.0	+1.4	+0.1	+0.2	+0.0	29.7	40.0	-10.3	Vert
			+7.3								
22	461.070M	39.0	-28.1	+4.4	+0.4	+0.5	+0.0	33.5	46.0	-12.5	Vert
			+17.3								
23	210.174M	42.5	-27.4	+2.9	+0.3	+0.3	+0.0	28.3	43.5	-15.2	Horiz
			+9.7								



Test Setup Photos



Configuration 10



Configuration 11



15.207 AC Conducted Emissions

Test Setup / Conditions / Data

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

Customer: WaveLynx Technologies Corporation.

Specification: 15.207 AC Mains - Average

 Work Order #:
 97029
 Date: 5/10/2016

 Test Type:
 Conducted Emissions
 Time: 09:49:44

Tested By: Skip Doyle / Benny Lovan Sequence#: 4

Software: EMITest 5.03.02 120V 60Hz

Equipment Tested:

Device Manufacturer Model # S/N
Configuration 2

Support Equipment:

Device Manufacturer Model # S/N
Configuration 2

Test Conditions / Notes:

Test Method: ANSI C 63.10 2013

Frequency Range of Interest:

0.150-30MHz

RBW = 9kHz; VBW > 9kHz

Environmental Conditions: Temperature: 21°C Relative Humidity: 67% Atmospheric Pressure: 97.5kPa

Highest Generated Frequency: 27.12 MHz

The EUT is running at 13.56MHz.

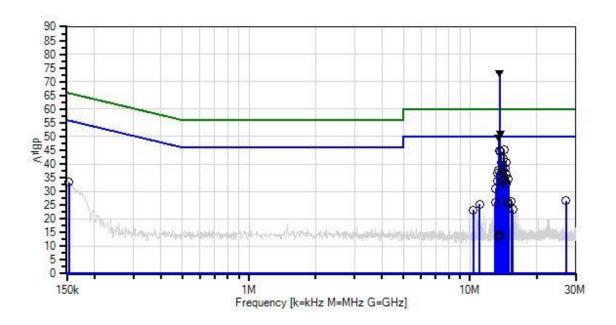
The EUT is powered by a DC power supply at 12VDC. The EUT is setup to continuously transmit at 13.56MHz.

AC Conducted Emissions is being performed on the AC portion of the AC/DC supply.

Page 49 of 96 Report No.: 97029-15A



WaveLynx Technologies Corporation. WO#: 97029 Sequence#: 4 Date: 5/10/2016 15.207 AC Mains - Average Test Lead: 120V 60Hz LINE



× QP Readings Software Version: 5.03.02 Readings

* Average Readings

1 - 15.207 AC Mains - Average



ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP06770	Attenuator	PE7010-10	1/15/2015	1/15/2017
	AN01248	50uH LISN-Line 1	8028-50-TS-24-	1/4/2016	1/4/2017
		(Return) (dB)	BNC		
T2	AN01248	50uH LISN-Line 2	8028-50-TS-24-	1/4/2016	1/4/2017
		(Line) (dB)	BNC		
T3	AN02609	High Pass Filter	HE9615-150K-	2/18/2016	2/18/2018
			50-720B		
T4	ANP06884	Cable	LMR195-FR-4	10/27/2015	10/27/2017
T5	ANMD INT	Cable	Underground	3/17/2016	3/17/2018
			cables only		
T6	AN02111	Spectrum Analyzer	8593EM	6/4/2015	6/4/2016
T7	ANP01153	Cable	NA	3/3/2016	3/3/2018

#		Re		ted by ma	ugiii.			I CSt LC	ad: LINE		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7						
	MHz	dΒμV	dB	dB	dB	dB	Table	dΒμV	dΒμV	dB	Ant
1	13.572M	62.2	+10.1	+0.3	+0.2	+0.1	+0.0	73.2	50.0	+23.2	LINE
	mbient		+0.2	+0.0	+0.1				Fundamen		
	13.707M	40.4	+10.1	+0.3	+0.2	+0.1	+0.0	51.4	50.0	+1.4	LINE
	mbient		+0.2	+0.0	+0.1				Fundamen		
	13.482M	38.9	+10.1	+0.3	+0.2	+0.1	+0.0	49.9	50.0	-0.1	LINE
	mbient		+0.2	+0.0	+0.1				Fundamen		
4	14.212M	34.3	+10.1	+0.3	+0.2	+0.1	+0.0	45.3	50.0	-4.7	LINE
			+0.2	+0.0	+0.1						
5	13.635M	33.8	+10.1	+0.3	+0.2	+0.1	+0.0	44.8	50.0	-5.2	LINE
			+0.2	+0.0	+0.1						
6	13.779M	33.5	+10.1	+0.3	+0.2	+0.1	+0.0	44.5	50.0	-5.5	LINE
			+0.2	+0.0	+0.1						
7	14.140M	30.9	+10.1	+0.3	+0.2	+0.1	+0.0	41.9	50.0	-8.1	LINE
			+0.2	+0.0	+0.1						
8	13.852M	29.7	+10.1	+0.3	+0.2	+0.1	+0.0	40.7	50.0	-9.3	LINE
			+0.2	+0.0	+0.1						
9	14.501M	29.6	+10.1	+0.3	+0.2	+0.1	+0.0	40.6	50.0	-9.4	LINE
			+0.2	+0.0	+0.1						
10	14.429M	27.3	+10.1	+0.3	+0.2	+0.1	+0.0	38.3	50.0	-11.7	LINE
			+0.2	+0.0	+0.1						
11	13.409M	26.6	+10.1	+0.3	+0.2	+0.1	+0.0	37.6	50.0	-12.4	LINE
			+0.2	+0.0	+0.1						
12	14.068M	26.6	+10.1	+0.3	+0.2	+0.1	+0.0	37.6	50.0	-12.4	LINE
			+0.2	+0.0	+0.1						
13	13.924M	25.8	+10.1	+0.3	+0.2	+0.1	+0.0	36.8	50.0	-13.2	LINE
			+0.2	+0.0	+0.1						
14	13.265M	25.5	+10.1	+0.3	+0.2	+0.1	+0.0	36.5	50.0	-13.5	LINE
			+0.2	+0.0	+0.1						
15	14.573M	25.4	+10.1	+0.3	+0.2	+0.1	+0.0	36.4	50.0	-13.6	LINE
			+0.2	+0.0	+0.1						
16	14.934M	23.5	+10.1	+0.3	+0.2	+0.1	+0.0	34.5	50.0	-15.5	LINE
			+0.2	+0.0	+0.1						



17	14.285M	23.4	+10.1	+0.3	+0.2	+0.1	+0.0	34.4	50.0	-15.6	LINE
			+0.2	+0.0	+0.1						
18	13.996M	22.9	+10.1	+0.3	+0.2	+0.1	+0.0	33.9	50.0	-16.1	LINE
			+0.2	+0.0	+0.1						
19	13.337M	22.7	+10.1	+0.3	+0.2	+0.1	+0.0	33.7	50.0	-16.3	LINE
			+0.2	+0.0	+0.1						
20	14.646M	21.7	+10.1	+0.3	+0.2	+0.1	+0.0	32.7	50.0	-17.3	LINE
			+0.2	+0.0	+0.1						
21	13.049M	20.1	+10.1	+0.3	+0.2	+0.1	+0.0	31.1	50.0	-18.9	LINE
			+0.2	+0.0	+0.1						
22	153.637k	21.6	+10.1	+0.1	+1.5	+0.0	+0.0	33.3	55.8	-22.5	LINE
			+0.0	+0.0	+0.0						
23	27.124M	15.6	+10.1	+0.1	+0.3	+0.1	+0.0	26.6	50.0	-23.4	LINE
			+0.2	+0.0	+0.2						
24	15.376M	15.3	+10.1	+0.4	+0.2	+0.1	+0.0	26.4	50.0	-23.6	LINE
			+0.2	+0.0	+0.1						
25	12.976M	15.0	+10.1	+0.3	+0.2	+0.1	+0.0	26.0	50.0	-24.0	LINE
			+0.2	+0.0	+0.1						
26	14.718M	15.0	+10.1	+0.3	+0.2	+0.1	+0.0	26.0	50.0	-24.0	LINE
			+0.2	+0.0	+0.1						
27	14.862M	15.0	+10.1	+0.3	+0.2	+0.1	+0.0	26.0	50.0	-24.0	LINE
			+0.2	+0.0	+0.1						
28	11.046M	14.4	+10.1	+0.2	+0.2	+0.1	+0.0	25.3	50.0	-24.7	LINE
			+0.2	+0.0	+0.1						
29	15.593M	12.3	+10.1	+0.4	+0.2	+0.1	+0.0	23.4	50.0	-26.6	LINE
			+0.2	+0.0	+0.1						
30	10.315M	12.4	+10.1	+0.2	+0.2	+0.1	+0.0	23.2	50.0	-26.8	LINE
			+0.1	+0.0	+0.1						
31	13.572M	3.4	+10.1	+0.3	+0.2	+0.1	+0.0	14.4	50.0	-35.6	LINE
			+0.2	+0.0	+0.1				Antenna		
									Disconnect		
	10 505) (2.0	10.1	0.0	0.0	0.1		120	replaced wi		x 22 75
32	13.707M	2.8	+10.1	+0.3	+0.2	+0.1	+0.0	13.8	50.0	-36.2	LINE
			+0.2	+0.0	+0.1				Antenna	1 1	
									Disconnect		
22	12 40034	2.6	. 10. 1	.0.2	.0.2	.0.1	.0.0	12.6	replaced wi		LINIT
33	13.482M	2.6	+10.1	+0.3	+0.2	+0.1	+0.0	13.6	50.0	-36.4	LINE
			+0.2	+0.0	+0.1				Antenna Disconnect	ad and	
									Disconnect		
									replaced wi	iui ioad	



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

WaveLynx Technologies Corporation. Customer:

15.207 AC Mains - Average Specification:

Work Order #: 97029 Date: 5/10/2016 Test Type: **Conducted Emissions** Time: 09:41:38

Tested By: Skip Doyle / Benny Lovan Sequence#: 3

Software: EMITest 5.03.02 120V 60Hz

Equipment Tested:

Device Model # S/N Manufacturer Configuration 2

Support Equipment:

Manufacturer Device Model # S/N Configuration 2

Test Conditions / Notes:

Test Method: ANSI C 63.10 2013

Frequency Range of Interest:

0.150-30MHz

RBW = 9kHz; VBW > 9kHz

Environmental Conditions: Temperature: 21°C Relative Humidity: 67% Atmospheric Pressure: 97.5kPa

Highest Generated Frequency: 27.12 MHz

The EUT is running at 13.56MHz.

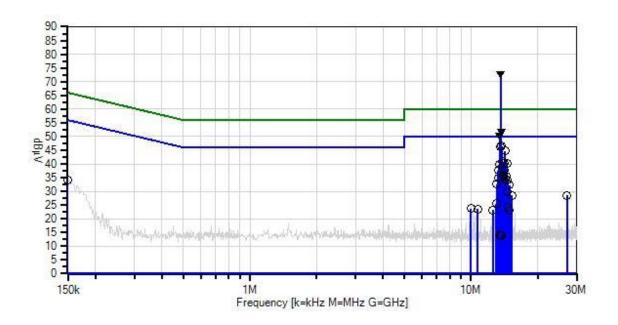
The EUT is powered by a DC power supply at 12VDC. The EUT is setup to continuously transmit at 13.56MHz.

AC Conducted Emissions is being performed on the AC portion of the AC/DC supply.

Page 53 of 96 Report No.: 97029-15A



WaveLynx Technologies Corporation. WO#: 97029 Sequence#: 3 Date: 5/10/2016 15.207 AC Mains - Average Test Lead: 120V 60Hz RETURN



× QP Readings Software Version: 5.03.02 Readings

* Average Readings

1 - 15.207 AC Mains - Average



ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP06770	Attenuator	PE7010-10	1/15/2015	1/15/2017
T2	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		
T3	AN02609	High Pass Filter	HE9615-150K-	2/18/2016	2/18/2018
			50-720B		
T4	ANP06884	Cable	LMR195-FR-4	10/27/2015	10/27/2017
T5	ANMD INT	Cable	Underground	3/17/2016	3/17/2018
			cables only		
T6	AN02111	Spectrum Analyzer	8593EM	6/4/2015	6/4/2016
T7	ANP01153	Cable	NA	3/3/2016	3/3/2018

	rement Data:	Re	eading lis		argin.			Test Lea	ad: RETUR		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7						
	MHz	dΒμV	dB	dB	dB	dB	Table	dΒμV	dΒμV	dB	Ant
1	13.572M	62.0	+10.1	+0.4	+0.2	+0.1	+0.0	73.1	50.0	+23.1	RETUR
	Ambient		+0.2	+0.0	+0.1				Fundamen		
2		40.7	+10.1	+0.4	+0.2	+0.1	+0.0	51.8	50.0	+1.8	RETUR
	Ambient		+0.2	+0.0	+0.1				Fundamen		
3	13.491M	39.4	+10.1	+0.4	+0.2	+0.1	+0.0	50.5	50.0	+0.5	RETUR
	Ambient		+0.2	+0.0	+0.1				Fundamen		
4	13.779M	35.4	+10.1	+0.4	+0.2	+0.1	+0.0	46.5	50.0	-3.5	RETUR
			+0.2	+0.0	+0.1						
5	13.635M	35.3	+10.1	+0.4	+0.2	+0.1	+0.0	46.4	50.0	-3.6	RETUR
			+0.2	+0.0	+0.1						
6	14.212M	33.6	+10.1	+0.4	+0.2	+0.1	+0.0	44.7	50.0	-5.3	RETUR
			+0.2	+0.0	+0.1						
7	13.852M	29.8	+10.1	+0.4	+0.2	+0.1	+0.0	40.9	50.0	-9.1	RETUR
			+0.2	+0.0	+0.1						
8	14.140M	29.1	+10.1	+0.4	+0.2	+0.1	+0.0	40.2	50.0	-9.8	RETUR
			+0.2	+0.0	+0.1						
9	14.501M	29.1	+10.1	+0.4	+0.2	+0.1	+0.0	40.2	50.0	-9.8	RETUR
			+0.2	+0.0	+0.1						
10	13.418M	28.6	+10.1	+0.4	+0.2	+0.1	+0.0	39.7	50.0	-10.3	RETUR
			+0.2	+0.0	+0.1						
11	13.274M	26.6	+10.1	+0.4	+0.2	+0.1	+0.0	37.7	50.0	-12.3	RETUR
			+0.2	+0.0	+0.1						
12	14.068M	26.5	+10.1	+0.4	+0.2	+0.1	+0.0	37.6	50.0	-12.4	RETUR
			+0.2	+0.0	+0.1						
13	13.996M	24.7	+10.1	+0.4	+0.2	+0.1	+0.0	35.8	50.0	-14.2	RETUR
			+0.2	+0.0	+0.1						
14	14.429M	24.6	+10.1	+0.4	+0.2	+0.1	+0.0	35.7	50.0	-14.3	RETUR
			+0.2	+0.0	+0.1						
15	13.924M	24.5	+10.1	+0.4	+0.2	+0.1	+0.0	35.6	50.0	-14.4	RETUR
			+0.2	+0.0	+0.1						
16	13.346M	23.9	+10.1	+0.4	+0.2	+0.1	+0.0	35.0	50.0	-15.0	RETUR
			+0.2	+0.0	+0.1						



17	14.285M	23.5	+10.1	+0.4	+0.2	+0.1	+0.0	34.6	50.0	-15.4	RETUR
			+0.2	+0.0	+0.1						
18	14.573M	23.2	+10.1	+0.4	+0.2	+0.1	+0.0	34.3	50.0	-15.7	RETUR
			+0.2	+0.0	+0.1						
19	13.049M	21.7	+10.1	+0.3	+0.2	+0.1	+0.0	32.7	50.0	-17.3	RETUR
			+0.2	+0.0	+0.1						
20	14.934M	21.1	+10.1	+0.4	+0.2	+0.1	+0.0	32.2	50.0	-17.8	RETUR
			+0.2	+0.0	+0.1						
21	14.646M	18.7	+10.1	+0.4	+0.2	+0.1	+0.0	29.8	50.0	-20.2	RETUR
			+0.2	+0.0	+0.1						
22	15.331M	17.5	+10.1	+0.4	+0.2	+0.1	+0.0	28.6	50.0	-21.4	RETUR
			+0.2	+0.0	+0.1						
23	27.124M	16.9	+10.1	+0.7	+0.3	+0.1	+0.0	28.5	50.0	-21.5	RETUR
			+0.2	+0.0	+0.2						
24	150.001k	22.0	+10.1	+0.1	+2.0	+0.0	+0.0	34.2	56.0	-21.8	RETUR
			+0.0	+0.0	+0.0						
25	12.976M	14.5	+10.1	+0.3	+0.2	+0.1	+0.0	25.5	50.0	-24.5	RETUR
			+0.2	+0.0	+0.1						
26	14.718M	13.0	+10.1	+0.4	+0.2	+0.1	+0.0	24.1	50.0	-25.9	RETUR
			+0.2	+0.0	+0.1						
27	9.963M	12.8	+10.1	+0.3	+0.2	+0.1	+0.0	23.7	50.0	-26.3	RETUR
			+0.1	+0.0	+0.1						
28	10.694M	12.6	+10.1	+0.3	+0.2	+0.1	+0.0	23.5	50.0	-26.5	RETUR
			+0.1	+0.0	+0.1						
29	12.543M	12.3	+10.1	+0.3	+0.2	+0.1	+0.0	23.3	50.0	-26.7	RETUR
			+0.2	+0.0	+0.1						
30	14.862M	12.2	+10.1	+0.4	+0.2	+0.1	+0.0	23.3	50.0	-26.7	RETUR
			+0.2	+0.0	+0.1						
31	13.491M	3.2	+10.1	+0.4	+0.2	+0.1	+0.0	14.3	50.0	-35.7	RETUR
			+0.2	+0.0	+0.1				Antenna		
									disconnected	d and	
									port Loaded		
32	13.572M	2.8	+10.1	+0.4	+0.2	+0.1	+0.0	13.9	50.0	-36.1	RETUR
			+0.2	+0.0	+0.1				Antenna		
									disconnected	d and	
									port Loaded		
33	13.707M	2.7	+10.1	+0.4	+0.2	+0.1	+0.0	13.8	50.0	-36.2	RETUR
			+0.2	+0.0	+0.1				Antenna		
									disconnected	d and	
									port Loaded		



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

WaveLynx Technologies Corporation. Customer:

15.207 AC Mains - Average Specification:

Work Order #: 97029 Date: 5/10/2016 Test Type: **Conducted Emissions** Time: 09:55:30

Tested By: Skip Doyle / Benny Lovan Sequence#: 5 EMITest 5.03.02

Equipment Tested:

Software:

Device Model # S/N Manufacturer Configuration 3

120V 60Hz

Support Equipment:

Manufacturer Device Model # S/N Configuration 3

Test Conditions / Notes:

Test Method: ANSI C 63.10 2013

Frequency Range of Interest:

0.150-30MHz

RBW = 9kHz; VBW > 9kHz

Environmental Conditions: Temperature: 21°C Relative Humidity: 67%

Atmospheric Pressure: 97.5kPa

Highest Generated Frequency: 27.12 MHz

The EUT is running at 13.56MHz.

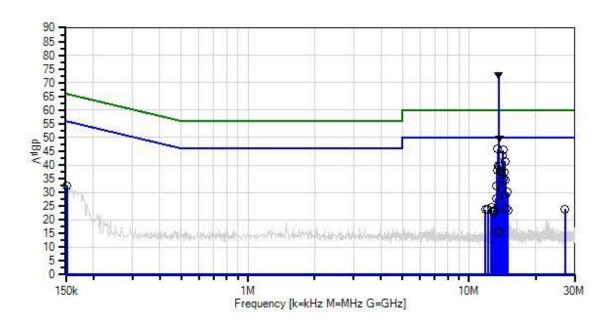
The EUT is powered by a DC power supply at 12VDC. The EUT is setup to continuously transmit at 13.56MHz.

AC Conducted Emissions is being performed on the AC portion of the AC/DC supply.

Page 57 of 96 Report No.: 97029-15A



WaveLynx Technologies Corporation. WO#: 97029 Sequence#: 5 Date: 5/10/2016 15.207 AC Mains - Average Test Lead: 120V 60Hz LINE



× QP Readings Software Version: 5.03.02 Readings

* Average Readings

1 - 15.207 AC Mains - Average



ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP06770	Attenuator	PE7010-10	1/15/2015	1/15/2017
	AN01248	50uH LISN-Line 1	8028-50-TS-24-	1/4/2016	1/4/2017
		(Return) (dB)	BNC		
T2	AN01248	50uH LISN-Line 2	8028-50-TS-24-	1/4/2016	1/4/2017
		(Line) (dB)	BNC		
T3	AN02609	High Pass Filter	HE9615-150K-	2/18/2016	2/18/2018
			50-720B		
T4	ANP06884	Cable	LMR195-FR-4	10/27/2015	10/27/2017
T5	ANMD INT	Cable	Underground	3/17/2016	3/17/2018
			cables only		
T6	AN02111	Spectrum Analyzer	8593EM	6/4/2015	6/4/2016
T7	ANP01153	Cable	NA	3/3/2016	3/3/2018

	rement Data:	Re	eading lis	ted by ma	argin.			Test Lea	ad: LINE		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7						
	MHz	dΒμV	dB	dB	dB	dB	Table	dΒμV	dΒμV	dB	Ant
1	13.572M	62.0	+10.1	+0.3	+0.2	+0.1	+0.0	73.0	50.0	+23.0	LINE
	Ambient		+0.2	+0.0	+0.1				Fundamer		
2	13.698M	38.7	+10.1	+0.3	+0.2	+0.1	+0.0	49.7	50.0	-0.3	LINE
	Ambient		+0.2	+0.0	+0.1				Fundamer		
3	13.482M	34.8	+10.1	+0.3	+0.2	+0.1	+0.0	45.8	50.0	-4.2	LINE
			+0.2	+0.0	+0.1						
4	14.212M	34.5	+10.1	+0.3	+0.2	+0.1	+0.0	45.5	50.0	-4.5	LINE
			+0.2	+0.0	+0.1						
5	14.140M	32.5	+10.1	+0.3	+0.2	+0.1	+0.0	43.5	50.0	-6.5	LINE
			+0.2	+0.0	+0.1						
6	14.501M	30.4	+10.1	+0.3	+0.2	+0.1	+0.0	41.4	50.0	-8.6	LINE
			+0.2	+0.0	+0.1						
7	13.626M	28.9	+10.1	+0.3	+0.2	+0.1	+0.0	39.9	50.0	-10.1	LINE
			+0.2	+0.0	+0.1						
8	13.770M	28.6	+10.1	+0.3	+0.2	+0.1	+0.0	39.6	50.0	-10.4	LINE
			+0.2	+0.0	+0.1						
9	13.843M	27.5	+10.1	+0.3	+0.2	+0.1	+0.0	38.5	50.0	-11.5	LINE
			+0.2	+0.0	+0.1						
10	13.400M	27.1	+10.1	+0.3	+0.2	+0.1	+0.0	38.1	50.0	-11.9	LINE
			+0.2	+0.0	+0.1						
11	14.059M	26.8	+10.1	+0.3	+0.2	+0.1	+0.0	37.8	50.0	-12.2	LINE
			+0.2	+0.0	+0.1						
12	13.915M	26.4	+10.1	+0.3	+0.2	+0.1	+0.0	37.4	50.0	-12.6	LINE
			+0.2	+0.0	+0.1						
13	14.429M	26.3	+10.1	+0.3	+0.2	+0.1	+0.0	37.3	50.0	-12.7	LINE
			+0.2	+0.0	+0.1						
14	14.285M	23.7	+10.1	+0.3	+0.2	+0.1	+0.0	34.7	50.0	-15.3	LINE
			+0.2	+0.0	+0.1						
15	14.573M	23.6	+10.1	+0.3	+0.2	+0.1	+0.0	34.6	50.0	-15.4	LINE
			+0.2	+0.0	+0.1						
16	13.328M	21.2	+10.1	+0.3	+0.2	+0.1	+0.0	32.2	50.0	-17.8	LINE
			+0.2	+0.0	+0.1						



17	13.987M	19.8	+10.1	+0.3	+0.2	+0.1	+0.0	30.8	50.0	-19.2	LINE
			+0.2	+0.0	+0.1						
18	14.943M	19.2	+10.1	+0.3	+0.2	+0.1	+0.0	30.2	50.0	-19.8	LINE
			+0.2	+0.0	+0.1						
19	14.646M	17.7	+10.1	+0.3	+0.2	+0.1	+0.0	28.7	50.0	-21.3	LINE
			+0.2	+0.0	+0.1						
20	13.256M	16.8	+10.1	+0.3	+0.2	+0.1	+0.0	27.8	50.0	-22.2	LINE
			+0.2	+0.0	+0.1						
21	151.819k	20.4	+10.1	+0.1	+1.8	+0.0	+0.0	32.4	55.9	-23.5	LINE
			+0.0	+0.0	+0.0						
22	12.597M	13.7	+10.1	+0.3	+0.2	+0.1	+0.0	24.7	50.0	-25.3	LINE
			+0.2	+0.0	+0.1						
23	14.727M	13.3	+10.1	+0.3	+0.2	+0.1	+0.0	24.3	50.0	-25.7	LINE
			+0.2	+0.0	+0.1						
24	27.124M	13.0	+10.1	+0.1	+0.3	+0.1	+0.0	24.0	50.0	-26.0	LINE
			+0.2	+0.0	+0.2						
25	12.155M	12.9	+10.1	+0.3	+0.1	+0.1	+0.0	23.8	50.0	-26.2	LINE
			+0.2	+0.0	+0.1						
26	11.867M	12.8	+10.1	+0.3	+0.1	+0.1	+0.0	23.7	50.0	-26.3	LINE
			+0.2	+0.0	+0.1						
27	13.040M	12.5	+10.1	+0.3	+0.2	+0.1	+0.0	23.5	50.0	-26.5	LINE
			+0.2	+0.0	+0.1						
28	15.015M	12.4	+10.1	+0.3	+0.2	+0.1	+0.0	23.4	50.0	-26.6	LINE
			+0.2	+0.0	+0.1						
29	12.967M	12.3	+10.1	+0.3	+0.2	+0.1	+0.0	23.3	50.0	-26.7	LINE
			+0.2	+0.0	+0.1						
30	12.895M	11.6	+10.1	+0.3	+0.2	+0.1	+0.0	22.6	50.0	-27.4	LINE
			+0.2	+0.0	+0.1						
31	13.696M	4.7	+10.1	+0.3	+0.2	+0.1	+0.0	15.7	50.0	-34.3	LINE
			+0.2	+0.0	+0.1				Antenna		
									disconnecte	ed and	
									replaced wi	th load	
32	13.563M	4.2	+10.1	+0.3	+0.2	+0.1	+0.0	15.2	50.0	-34.8	LINE
			+0.2	+0.0	+0.1				Antenna		
1									disconnecte		
									replaced wi	th load	



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

Customer: WaveLynx Technologies Corporation.

EMITest 5.03.02

Specification: 15.207 AC Mains - Average

Work Order #: 97029 Date: 5/10/2016
Test Type: Conducted Emissions Time: 10:00:58

Tested By: Skip Doyle / Benny Lovan Sequence#: 6

Equipment Tested:

Software:

Device Manufacturer Model # S/N
Configuration 3

120V 60Hz

Support Equipment:

Device Manufacturer Model # S/N
Configuration 3

Test Conditions / Notes:

Test Method: ANSI C 63.10 2013

Frequency Range of Interest:

0.150-30MHz

RBW = 9kHz; VBW > 9kHz

Environmental Conditions: Temperature: 21°C Relative Humidity: 67%

Atmospheric Pressure: 97.5kPa

Highest Generated Frequency: 27.12 MHz

The EUT is running at 13.56MHz.

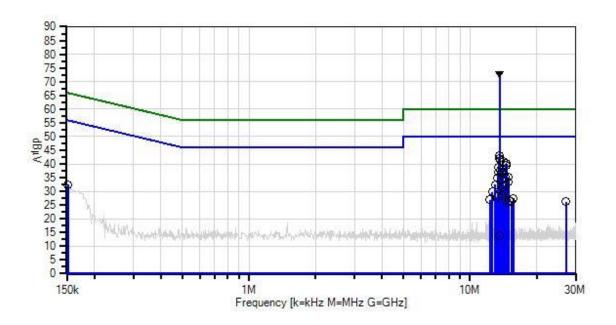
The EUT is powered by a DC power supply at 12VDC. The EUT is setup to continuously transmit at 13.56MHz.

AC Conducted Emissions is being performed on the AC portion of the AC/DC supply.

Page 61 of 96 Report No.: 97029-15A



WaveLynx Technologies Corporation. WO#: 97029 Sequence#: 6 Date: 5/10/2016 15.207 AC Mains - Average Test Lead: 120V 60Hz RETURN



× QP Readings Software Version: 5.03.02 Readings

* Average Readings

1 - 15.207 AC Mains - Average



ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP06770	Attenuator	PE7010-10	1/15/2015	1/15/2017
T2	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		
T3	AN02609	High Pass Filter	HE9615-150K-	2/18/2016	2/18/2018
			50-720B		
T4	ANP06884	Cable	LMR195-FR-4	10/27/2015	10/27/2017
T5	ANMD INT	Cable	Underground	3/17/2016	3/17/2018
			cables only		
T6	AN02111	Spectrum Analyzer	8593EM	6/4/2015	6/4/2016
T7	ANP01153	Cable	NA	3/3/2016	3/3/2018

#	Measurement Data:Reading listed by margin.#FreqRdngT1T2T3						Test Lead: RETURN						
	ricq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar		
			T5	T6	T7								
	MHz	dΒμV	dB	dB	dB	dB	Table	dΒμV	dΒμV	dB	Ant		
1	13.572M	62.0	+10.1	+0.4	+0.2	+0.1	+0.0	73.1	50.0	+23.1	RETUR		
	mbient		+0.2	+0.0	+0.1				Fundamen				
2	13.608M	31.8	+10.1	+0.4	+0.2	+0.1	+0.0	42.9	50.0	-7.1	RETUR		
			+0.2	+0.0	+0.1								
3	13.536M	30.9	+10.1	+0.4	+0.2	+0.1	+0.0	42.0	50.0	-8.0	RETUR		
			+0.2	+0.0	+0.1								
4	13.680M	30.2	+10.1	+0.4	+0.2	+0.1	+0.0	41.3	50.0	-8.7	RETUR		
			+0.2	+0.0	+0.1								
5	14.122M	29.8	+10.1	+0.4	+0.2	+0.1	+0.0	40.9	50.0	-9.1	RETUR		
			+0.2	+0.0	+0.1								
6	14.637M	29.0	+10.1	+0.4	+0.2	+0.1	+0.0	40.1	50.0	-9.9	RETUR		
			+0.2	+0.0	+0.1								
7	14.564M	28.5	+10.1	+0.4	+0.2	+0.1	+0.0	39.6	50.0	-10.4	RETUR		
			+0.2	+0.0	+0.1								
8	13.464M	27.7	+10.1	+0.4	+0.2	+0.1	+0.0	38.8	50.0	-11.2	RETUR		
			+0.2	+0.0	+0.1								
9	13.761M	26.7	+10.1	+0.4	+0.2	+0.1	+0.0	37.8	50.0	-12.2	RETUR		
			+0.2	+0.0	+0.1								
10	13.391M	26.0	+10.1	+0.4	+0.2	+0.1	+0.0	37.1	50.0	-12.9	RETUR		
			+0.2	+0.0	+0.1								
11	13.834M	25.9	+10.1	+0.4	+0.2	+0.1	+0.0	37.0	50.0	-13.0	RETUR		
			+0.2	+0.0	+0.1								
12	14.492M	24.1	+10.1	+0.4	+0.2	+0.1	+0.0	35.2	50.0	-14.8	RETUR		
			+0.2	+0.0	+0.1								
13	14.925M	24.0	+10.1	+0.4	+0.2	+0.1	+0.0	35.1	50.0	-14.9	RETUR		
			+0.2	+0.0	+0.1								
14	13.319M	23.7	+10.1	+0.4	+0.2	+0.1	+0.0	34.8	50.0	-15.2	RETUR		
			+0.2	+0.0	+0.1								
15	13.906M	23.4	+10.1	+0.4	+0.2	+0.1	+0.0	34.5	50.0	-15.5	RETUR		
			+0.2	+0.0	+0.1								
16	14.853M	22.5	+10.1	+0.4	+0.2	+0.1	+0.0	33.6	50.0	-16.4	RETUR		
			+0.2	+0.0	+0.1								



17	13.021M	21.4	+10.1	+0.3	+0.2	+0.1	+0.0	32.4	50.0	-17.6	RETUR
			+0.2	+0.0	+0.1						
18	14.411 M	21.0	+10.1	+0.4	+0.2	+0.1	+0.0	32.1	50.0	-17.9	RETUR
			+0.2	+0.0	+0.1						
19	14.194M	20.7	+10.1	+0.4	+0.2	+0.1	+0.0	31.8	50.0	-18.2	RETUR
			+0.2	+0.0	+0.1						
20	14.267M	18.8	+10.1	+0.4	+0.2	+0.1	+0.0	29.9	50.0	-20.1	RETUR
			+0.2	+0.0	+0.1						
21	12.588M	18.8	+10.1	+0.3	+0.2	+0.1	+0.0	29.8	50.0	-20.2	RETUR
			+0.2	+0.0	+0.1						
22	14.050M	17.2	+10.1	+0.4	+0.2	+0.1	+0.0	28.3	50.0	-21.7	RETUR
			+0.2	+0.0	+0.1						
23	13.247M	16.9	+10.1	+0.4	+0.2	+0.1	+0.0	28.0	50.0	-22.0	RETUR
			+0.2	+0.0	+0.1						
24	15.683M	16.4	+10.1	+0.4	+0.2	+0.1	+0.0	27.5	50.0	-22.5	RETUR
			+0.2	+0.0	+0.1						
25	12.291M	16.1	+10.1	+0.3	+0.1	+0.1	+0.0	27.0	50.0	-23.0	RETUR
			+0.2	+0.0	+0.1						
26	14.997M	15.5	+10.1	+0.4	+0.2	+0.1	+0.0	26.6	50.0	-23.4	RETUR
			+0.2	+0.0	+0.1						
27	151.819k	20.4	+10.1	+0.1	+1.8	+0.0	+0.0	32.4	55.9	-23.5	RETUR
			+0.0	+0.0	+0.0						
28	15.385M	15.3	+10.1	+0.4	+0.2	+0.1	+0.0	26.4	50.0	-23.6	RETUR
			+0.2	+0.0	+0.1						
29	27.124M	14.6	+10.1	+0.7	+0.3	+0.1	+0.0	26.2	50.0	-23.8	RETUR
			+0.2	+0.0	+0.2						
30	14.709M	14.7	+10.1	+0.4	+0.2	+0.1	+0.0	25.8	50.0	-24.2	RETUR
			+0.2	+0.0	+0.1						
31	13.572M	2.8	+10.1	+0.4	+0.2	+0.1	+0.0	13.9	50.0	-36.1	RETUR
			+0.2	+0.0	+0.1				Antenna		
									disconnected	d and	
									replaced wit	h load	



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

WaveLynx Technologies Corporation. Customer:

15.207 AC Mains - Average Specification:

Work Order #: 97029 Date: 5/10/2016 Test Type: **Conducted Emissions** Time: 10:31:54 Tested By: Skip Doyle / Benny Lovan Sequence#: 12

Software: EMITest 5.03.02 120V 60Hz

Equipment Tested:

Device Model # S/N Manufacturer Configuration 6

Support Equipment:

Manufacturer Device Model # S/N Configuration 6

Test Conditions / Notes:

Test Method: ANSI C 63.10 2013

Frequency Range of Interest:

0.150-30MHz

RBW = 9kHz; VBW > 9kHz

Environmental Conditions: Temperature: 21°C Relative Humidity: 67%

Atmospheric Pressure: 97.5kPa

Highest Generated Frequency: 27.12 MHz

The EUT is running at 13.56MHz.

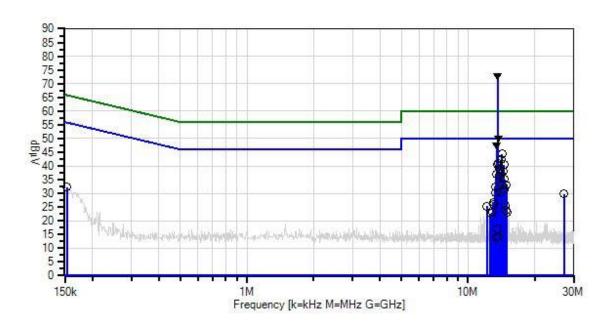
The EUT is powered by a DC power supply at 12VDC. The EUT is setup to continuously transmit at 13.56MHz.

AC Conducted Emissions is being performed on the AC portion of the AC/DC supply.

Page 65 of 96 Report No.: 97029-15A



WaveLynx Technologies Corporation. WO#: 97029 Sequence#: 12 Date: 5/10/2016 15.207 AC Mains - Average Test Lead: 120V 60Hz LINE



× QP Readings Software Version: 5.03.02 Readings

* Average Readings

1 - 15.207 AC Mains - Average



ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP06770	Attenuator	PE7010-10	1/15/2015	1/15/2017
	AN01248	50uH LISN-Line 1	8028-50-TS-24-	1/4/2016	1/4/2017
		(Return) (dB)	BNC		
T2	AN01248	50uH LISN-Line 2	8028-50-TS-24-	1/4/2016	1/4/2017
		(Line) (dB)	BNC		
T3	AN02609	High Pass Filter	HE9615-150K-	2/18/2016	2/18/2018
			50-720B		
T4	ANP06884	Cable	LMR195-FR-4	10/27/2015	10/27/2017
T5	ANMD INT	Cable	Underground	3/17/2016	3/17/2018
			cables only		
T6	AN02111	Spectrum Analyzer	8593EM	6/4/2015	6/4/2016
T7	ANP01153	Cable	NA	3/3/2016	3/3/2018

T5 T6 T7 T7 T8 T8 T8 T8 T8 T8		rement Data:	Re	eading lis	ted by ma	argin.	Test Lead: LINE					
MHz	#	Freq	Rdng				T4	Dist	Corr	Spec	Margin	Polar
1 13.572M 62.0 +10.1 +0.3 +0.2 +0.1 +0.0 73.0 50.0 +23.0 LINE												
Ambient +0.2 +0.0 +0.1 Fundamental 2 13.698M 39.1 +10.1 +0.3 +0.2 +0.1 +0.0 50.1 50.0 +0.1 LINE Ambient +0.2 +0.0 +0.1 Fundamental Fundamental 4 14.212M 33.3 +10.1 +0.3 +0.2 +0.1 +0.0 44.3 50.0 -2.5 LINE 4 14.212M 33.3 +10.1 +0.3 +0.2 +0.1 +0.0 44.3 50.0 -5.7 LINE 5 14.140M 31.4 +10.1 +0.3 +0.2 +0.1 +0.0 42.4 50.0 -5.7 LINE 6 13.770M 29.9 +10.1 +0.3 +0.2 +0.1 +0.0 40.9 50.0 -9.1 LINE 7 13.626M 29.5 +10.1 +0.3 +0.2 +0.1 +0.0 40.5 50.0 -9.5 LINE 8 14.501M 29.5 +10.1 +0.3 +0.2 <t< td=""><td></td><td></td><td>dΒμV</td><td></td><td></td><td>dB</td><td></td><td>Table</td><td>dΒμV</td><td>dΒμV</td><td></td><td></td></t<>			dΒμV			dB		Table	dΒμV	dΒμV		
2 13.698M 39.1 +10.1 +0.3 +0.2 +0.1 +0.0 50.1 50.0 +0.1 LINE	1		62.0				+0.1	+0.0	73.0	50.0	+23.0	LINE
Ambient +0.2 +0.0 +0.1 Fundamental 3 13.482M 36.5 +10.1 +0.3 +0.2 +0.1 +0.0 47.5 50.0 -2.5 LINE Ambient +0.2 +0.0 +0.1 +0.1 +0.0 44.3 50.0 -5.7 LINE 4 14.212M 33.3 +10.1 +0.3 +0.2 +0.1 +0.0 44.3 50.0 -5.7 LINE 5 14.140M 31.4 +10.1 +0.3 +0.2 +0.1 +0.0 42.4 50.0 -7.6 LINE 6 13.770M 29.9 +10.1 +0.3 +0.2 +0.1 +0.0 40.9 50.0 -9.1 LINE +0.2 +0.0 +0.1 +0.2 +0.0 +0.1 +0.0 40.5 50.0 -9.5 LINE 8 14.501M 29.5 +10.1 +0.3 +0.2 +0.1 +0.0 40.5 50.0 -9.5 LINE 9 13.843M 27.7 +10.1 +0.3 +0.2 +0.1 +0.0 38.7 50.0				+0.2 +0.0 +0.		+0.1						
3 13.482M 36.5 +10.1 +0.3 +0.2 +0.1 +0.0 47.5 50.0 -2.5 LINE Ambient	2		39.1				+0.1	+0.0	50.1			LINE
Ambient +0.2 +0.0 +0.1 Fundamental 4 14.212M 33.3 +10.1 +0.3 +0.2 +0.1 +0.0 44.3 50.0 -5.7 LINE 5 14.140M 31.4 +10.1 +0.3 +0.2 +0.1 +0.0 42.4 50.0 -7.6 LINE 6 13.770M 29.9 +10.1 +0.3 +0.2 +0.1 +0.0 40.9 50.0 -9.1 LINE 7 13.626M 29.5 +10.1 +0.3 +0.2 +0.1 +0.0 40.5 50.0 -9.5 LINE 8 14.501M 29.5 +10.1 +0.3 +0.2 +0.1 +0.0 40.5 50.0 -9.5 LINE 9 13.843M 27.7 +10.1 +0.3 +0.2 +0.1 +0.0 38.7 50.0 -11.3 LINE +0.2 +0.0 +0.1 +0.2 +0.1 +0.0 38.7 50.0 -11				+0.2	+0.0	+0.1 Fundamental						
4 14.212M 33.3 +10.1 +0.3 +0.2 +0.1 +0.0 44.3 50.0 -5.7 LINE 5 14.140M 31.4 +10.1 +0.3 +0.2 +0.1 +0.0 42.4 50.0 -7.6 LINE 6 13.770M 29.9 +10.1 +0.3 +0.2 +0.1 +0.0 40.9 50.0 -9.1 LINE 7 13.626M 29.5 +10.1 +0.3 +0.2 +0.1 +0.0 40.5 50.0 -9.5 LINE 8 14.501M 29.5 +10.1 +0.3 +0.2 +0.1 +0.0 40.5 50.0 -9.5 LINE 9 13.843M 27.7 +10.1 +0.3 +0.2 +0.1 +0.0 38.7 50.0 -11.3 LINE +0.2 +0.0 +0.1 +0.1 +0.0 38.0 50.0 -12.0 LINE 10 14.429M 27.0 +10.1 +0.3 +0.2 +0.1 +0.0 38.0 50.0 -12.0 LINE	3	13.482M	36.5	+10.1	+0.3	+0.2	+0.1	+0.0	47.5	50.0	-2.5	LINE
+0.2 +0.0 +0.1 5 14.140M 31.4 +10.1 +0.3 +0.2 +0.1 +0.0 42.4 50.0 -7.6 LINE +0.2 +0.0 +0.1 6 13.770M 29.9 +10.1 +0.3 +0.2 +0.1 +0.0 40.9 50.0 -9.1 LINE +0.2 +0.0 +0.1 7 13.626M 29.5 +10.1 +0.3 +0.2 +0.1 +0.0 40.5 50.0 -9.5 LINE +0.2 +0.0 +0.1 8 14.501M 29.5 +10.1 +0.3 +0.2 +0.1 +0.0 40.5 50.0 -9.5 LINE +0.2 +0.0 +0.1 9 13.843M 27.7 +10.1 +0.3 +0.2 +0.1 +0.0 38.7 50.0 -11.3 LINE +0.2 +0.0 +0.1 10 14.429M 27.0 +10.1 +0.3 +0.2 +0.1 +0.0 38.0 50.0 -12.0 LINE				+0.2								
5 14.140M 31.4 +10.1 +0.3 +0.2 +0.1 +0.0 42.4 50.0 -7.6 LINE 6 13.770M 29.9 +10.1 +0.3 +0.2 +0.1 +0.0 40.9 50.0 -9.1 LINE 7 13.626M 29.5 +10.1 +0.3 +0.2 +0.1 +0.0 40.5 50.0 -9.5 LINE 8 14.501M 29.5 +10.1 +0.3 +0.2 +0.1 +0.0 40.5 50.0 -9.5 LINE 9 13.843M 27.7 +10.1 +0.3 +0.2 +0.1 +0.0 38.7 50.0 -11.3 LINE +0.2 +0.0 +0.1 10 14.429M 27.0 +10.1 +0.3 +0.2 +0.1 +0.0 38.0 50.0 -12.0 LINE	4	14.212M	33.3	+10.1	+0.3	+0.2	+0.1	+0.0	44.3	50.0	-5.7	LINE
+0.2 +0.0 +0.1 6 13.770M 29.9 +10.1 +0.3 +0.2 +0.1 +0.0 40.9 50.0 -9.1 LINE +0.2 +0.0 +0.1 7 13.626M 29.5 +10.1 +0.3 +0.2 +0.1 +0.0 40.5 50.0 -9.5 LINE +0.2 +0.0 +0.1 8 14.501M 29.5 +10.1 +0.3 +0.2 +0.1 +0.0 40.5 50.0 -9.5 LINE +0.2 +0.0 +0.1 9 13.843M 27.7 +10.1 +0.3 +0.2 +0.1 +0.0 38.7 50.0 -11.3 LINE +0.2 +0.0 +0.1 10 14.429M 27.0 +10.1 +0.3 +0.2 +0.1 +0.0 38.0 50.0 -12.0 LINE				+0.2	+0.0	+0.1						
6 13.770M 29.9 +10.1 +0.3 +0.2 +0.1 +0.0 40.9 50.0 -9.1 LINE +0.2 +0.0 +0.1 7 13.626M 29.5 +10.1 +0.3 +0.2 +0.1 +0.0 40.5 50.0 -9.5 LINE +0.2 +0.0 +0.1 8 14.501M 29.5 +10.1 +0.3 +0.2 +0.1 +0.0 40.5 50.0 -9.5 LINE +0.2 +0.0 +0.1 9 13.843M 27.7 +10.1 +0.3 +0.2 +0.1 +0.0 38.7 50.0 -11.3 LINE +0.2 +0.0 +0.1 10 14.429M 27.0 +10.1 +0.3 +0.2 +0.1 +0.0 38.0 50.0 -12.0 LINE	5	14.140M	31.4	+10.1	+0.3	+0.2	+0.1	+0.0	42.4	50.0	-7.6	LINE
+0.2 +0.0 +0.1 7 13.626M 29.5 +10.1 +0.3 +0.2 +0.1 +0.0 40.5 50.0 -9.5 LINE +0.2 +0.0 +0.1 8 14.501M 29.5 +10.1 +0.3 +0.2 +0.1 +0.0 40.5 50.0 -9.5 LINE +0.2 +0.0 +0.1 9 13.843M 27.7 +10.1 +0.3 +0.2 +0.1 +0.0 38.7 50.0 -11.3 LINE +0.2 +0.0 +0.1 10 14.429M 27.0 +10.1 +0.3 +0.2 +0.1 +0.0 38.0 50.0 -12.0 LINE				+0.2	+0.0	+0.1						
7 13.626M 29.5 +10.1 +0.3 +0.2 +0.1 +0.0 40.5 50.0 -9.5 LINE +0.2 +0.0 +0.1 8 14.501M 29.5 +10.1 +0.3 +0.2 +0.1 +0.0 40.5 50.0 -9.5 LINE +0.2 +0.0 +0.1 9 13.843M 27.7 +10.1 +0.3 +0.2 +0.1 +0.0 38.7 50.0 -11.3 LINE +0.2 +0.0 +0.1 10 14.429M 27.0 +10.1 +0.3 +0.2 +0.1 +0.0 38.0 50.0 -12.0 LINE	6	13.770M	29.9	+10.1	+0.3	+0.2	+0.1	+0.0	40.9	50.0	-9.1	LINE
+0.2 +0.0 +0.1 8 14.501M 29.5 +10.1 +0.3 +0.2 +0.1 +0.0 40.5 50.0 -9.5 LINE +0.2 +0.0 +0.1 9 13.843M 27.7 +10.1 +0.3 +0.2 +0.1 +0.0 38.7 50.0 -11.3 LINE +0.2 +0.0 +0.1 10 14.429M 27.0 +10.1 +0.3 +0.2 +0.1 +0.0 38.0 50.0 -12.0 LINE				+0.2	+0.0	+0.1						
8 14.501M 29.5 +10.1 +0.3 +0.2 +0.1 +0.0 40.5 50.0 -9.5 LINE +0.2 +0.0 +0.1 9 13.843M 27.7 +10.1 +0.3 +0.2 +0.1 +0.0 38.7 50.0 -11.3 LINE +0.2 +0.0 +0.1 10 14.429M 27.0 +10.1 +0.3 +0.2 +0.1 +0.0 38.0 50.0 -12.0 LINE	7	13.626M	29.5	+10.1	+0.3	+0.2	+0.1	+0.0	40.5	50.0	-9.5	LINE
+0.2 +0.0 +0.1 9 13.843M 27.7 +10.1 +0.3 +0.2 +0.1 +0.0 38.7 50.0 -11.3 LINE +0.2 +0.0 +0.1 10 14.429M 27.0 +10.1 +0.3 +0.2 +0.1 +0.0 38.0 50.0 -12.0 LINE				+0.2	+0.0	+0.1						
9 13.843M 27.7 +10.1 +0.3 +0.2 +0.1 +0.0 38.7 50.0 -11.3 LINE +0.2 +0.0 +0.1 10 14.429M 27.0 +10.1 +0.3 +0.2 +0.1 +0.0 38.0 50.0 -12.0 LINE	8	14.501M	29.5	+10.1	+0.3	+0.2	+0.1	+0.0	40.5	50.0	-9.5	LINE
+0.2 +0.0 +0.1 10 14.429M 27.0 +10.1 +0.3 +0.2 +0.1 +0.0 38.0 50.0 -12.0 LINE				+0.2	+0.0	+0.1						
10 14.429M 27.0 +10.1 +0.3 +0.2 +0.1 +0.0 38.0 50.0 -12.0 LINE	9	13.843M	27.7	+10.1	+0.3	+0.2	+0.1	+0.0	38.7	50.0	-11.3	LINE
				+0.2	+0.0	+0.1						
+0.2 +0.0 +0.1	10	14.429M	27.0	+10.1	+0.3	+0.2	+0.1	+0.0	38.0	50.0	-12.0	LINE
				+0.2	+0.0	+0.1						
11 13.409M 26.1 +10.1 +0.3 +0.2 +0.1 +0.0 37.1 50.0 -12.9 LINE	11	13.409M	26.1	+10.1	+0.3	+0.2	+0.1	+0.0	37.1	50.0	-12.9	LINE
+0.2 +0.0 +0.1				+0.2	+0.0	+0.1						
12 14.068M 25.9 +10.1 +0.3 +0.2 +0.1 +0.0 36.9 50.0 -13.1 LINE	12	14.068M	25.9	+10.1	+0.3	+0.2	+0.1	+0.0	36.9	50.0	-13.1	LINE
+0.2 +0.0 +0.1				+0.2	+0.0	+0.1						
13 13.915M 25.3 +10.1 +0.3 +0.2 +0.1 +0.0 36.3 50.0 -13.7 LINE	13	13.915M	25.3	+10.1	+0.3	+0.2	+0.1	+0.0	36.3	50.0	-13.7	LINE
+0.2 +0.0 +0.1				+0.2	+0.0	+0.1						
14 14.573M 24.1 +10.1 +0.3 +0.2 +0.1 +0.0 35.1 50.0 -14.9 LINE	14	14.573M	24.1	+10.1	+0.3	+0.2	+0.1	+0.0	35.1	50.0	-14.9	LINE
+0.2 +0.0 +0.1				+0.2	+0.0	+0.1						
15 14.934M 22.2 +10.1 +0.3 +0.2 +0.1 +0.0 33.2 50.0 -16.8 LINE	15	14.934M	22.2	+10.1	+0.3	+0.2	+0.1	+0.0	33.2	50.0	-16.8	LINE
+0.2 +0.0 +0.1				+0.2	+0.0	+0.1						
16 14.285M 22.1 +10.1 +0.3 +0.2 +0.1 +0.0 33.1 50.0 -16.9 LINE	16	14.285M	22.1	+10.1	+0.3	+0.2	+0.1	+0.0	33.1	50.0	-16.9	LINE
+0.2 +0.0 +0.1				+0.2	+0.0	+0.1						



17	13.265M	21.4	+10.1	+0.3	+0.2	+0.1	+0.0	32.4	50.0	-17.6	LINE	
			+0.2	+0.0	+0.1							
18	14.646M	20.4	+10.1	+0.3	+0.2	+0.1	+0.0	31.4	50.0	-18.6	LINE	
			+0.2	+0.0	+0.1							
19	13.987M	19.6	+10.1	+0.3	+0.2	+0.1	+0.0	30.6	50.0	-19.4	LINE	
			+0.2	+0.0	+0.1							
20	13.337M	19.3	+10.1	+0.3	+0.2	+0.1	+0.0	30.3	50.0	-19.7	LINE	
			+0.2	+0.0	+0.1							
21	27.124M	18.8	+10.1	+0.1	+0.3	+0.1	+0.0	29.8	50.0	-20.2	LINE	
			+0.2	+0.0	+0.2							
22	12.967M	15.8	+10.1	+0.3	+0.2	+0.1	+0.0	26.8	50.0	-23.2	LINE	
			+0.2	+0.0	+0.1							
23	153.637k	20.6	+10.1	+0.1	+1.5	+0.0	+0.0	32.3	55.8	-23.5	LINE	
			+0.0	+0.0	+0.0							
24	13.040M	14.9	+10.1	+0.3	+0.2	+0.1	+0.0	25.9	50.0	-24.1	LINE	
			+0.2	+0.0	+0.1							
25	14.718M	14.7	+10.1	+0.3	+0.2	+0.1	+0.0	25.7	50.0	-24.3	LINE	
			+0.2	+0.0	+0.1							
26	12.164M	14.4	+10.1	+0.3	+0.1	+0.1	+0.0	25.3	50.0	-24.7	LINE	
			+0.2	+0.0	+0.1							
27	14.862M	12.7	+10.1	+0.3	+0.2	+0.1	+0.0	23.7	50.0	-26.3	LINE	
			+0.2	+0.0	+0.1							
28	12.895M	12.1	+10.1	+0.3	+0.2	+0.1	+0.0	23.1	50.0	-26.9	LINE	
			+0.2	+0.0	+0.1							
29	15.015M	12.0	+10.1	+0.3	+0.2	+0.1	+0.0	23.0	50.0	-27.0	LINE	
			+0.2	+0.0	+0.1							
30	12.606M	11.7	+10.1	+0.3	+0.2	+0.1	+0.0	22.7	50.0	-27.3	LINE	
			+0.2	+0.0	+0.1							
31	13.572M	5.9	+10.1	+0.3	+0.2	+0.1	+0.0	16.9	50.0	-33.1	LINE	
			+0.2	+0.0	+0.1				Antenna			
									disconnected and			
									replaced wi	th load		
32	13.698M	3.2	+10.1	+0.3	+0.2	+0.1	+0.0	14.2	50.0	-35.8	LINE	
			+0.2	+0.0	+0.1				Antenna			
									disconnected and			
									replaced with load			
33	13.482M	3.0	+10.1	+0.3	+0.2	+0.1	+0.0	14.0	50.0	-36.0	LINE	
			+0.2	+0.0	+0.1				Antenna			
									disconnected and			
									replaced with load			



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

Customer: WaveLynx Technologies Corporation.

Specification: 15.207 AC Mains - Average

Work Order #: 97029 Date: 5/10/2016
Test Type: Conducted Emissions Time: 10:20:05
Tested By: Skip Doyle / Benny Lovan Sequence#: 11

Software: EMITest 5.03.02 120V 60Hz

Equipment Tested:

Device Manufacturer Model # S/N
Configuration 6

Support Equipment:

Device Manufacturer Model # S/N
Configuration 6

Test Conditions / Notes:

Test Method: ANSI C 63.10 2013

Frequency Range of Interest:

0.150-30MHz

RBW = 9kHz; VBW > 9kHz

Environmental Conditions: Temperature: 21°C Relative Humidity: 67% Atmospheric Pressure: 97.5kPa

Highest Generated Frequency: 27.12 MHz

The EUT is running at 13.56MHz.

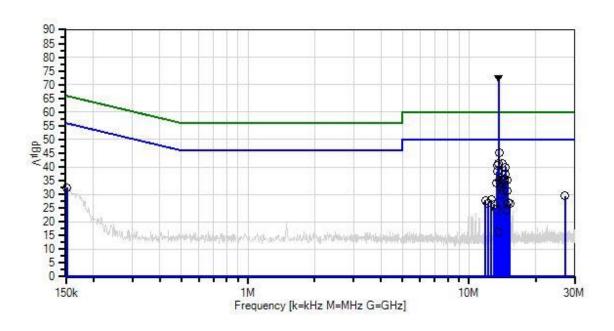
The EUT is powered by a DC power supply at 12VDC. The EUT is setup to continuously transmit at 13.56MHz.

AC Conducted Emissions is being performed on the AC portion of the AC/DC supply.

Page 69 of 96 Report No.: 97029-15A



WaveLynx Technologies Corporation, WO#: 97029 Sequence#: 11 Date: 5/10/2016 15.207 AC Mains - Average Test Lead: 120V 60Hz RETURN



× QP Readings Software Version: 5.03.02 Readings

* Average Readings

1 - 15.207 AC Mains - Average



ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP06770	Attenuator	PE7010-10	1/15/2015	1/15/2017
T2	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		
T3	AN02609	High Pass Filter	HE9615-150K-	2/18/2016	2/18/2018
			50-720B		
T4	ANP06884	Cable	LMR195-FR-4	10/27/2015	10/27/2017
T5	ANMD INT	Cable	Underground	3/17/2016	3/17/2018
			cables only		
T6	AN02111	Spectrum Analyzer	8593EM	6/4/2015	6/4/2016
T7	ANP01153	Cable	NA	3/3/2016	3/3/2018

Measu	rement Data:	Re	eading lis	ted by ma	argin.	Test Lead: RETURN						
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar	
			T5	T6	T7							
	MHz	dΒμV	dB	dB	dB	dB	Table	dΒμV	dΒμV	dB	Ant	
1	13.572M	61.5	+10.1	+0.4	+0.2	+0.1	+0.0	72.6	50.0	+22.6	RETUR	
	Ambient		+0.2	+0.0	+0.1				Fundamen	ıtal		
2	13.689M	34.2	+10.1	+0.4	+0.2	+0.1	+0.0	45.3	50.0	-4.7	RETUR	
			+0.2	+0.0	+0.1							
3	13.617M	30.3	+10.1	+0.4	+0.2	+0.1	+0.0	41.4	50.0	-8.6	RETUR	
			+0.2	+0.0	+0.1							
4	14.131M	30.0	+10.1	+0.4	+0.2	+0.1	+0.0	41.1	50.0	-8.9	RETUR	
			+0.2	+0.0	+0.1							
5	13.473M	29.4	+10.1	+0.4	+0.2	+0.1	+0.0	40.5	50.0	-9.5	RETUR	
			+0.2	+0.0	+0.1							
6	14.637M	28.8	+10.1	+0.4	+0.2	+0.1	+0.0	39.9	50.0	-10.1	RETUR	
			+0.2	+0.0	+0.1							
7	13.400M	27.3	+10.1	+0.4	+0.2	+0.1	+0.0	38.4	50.0	-11.6	RETUR	
			+0.2	+0.0	+0.1							
8	14.564M	26.3	+10.1	+0.4	+0.2	+0.1	+0.0	37.4	50.0	-12.6	RETUR	
			+0.2	+0.0	+0.1							
9	14.420M	24.6	+10.1	+0.4	+0.2	+0.1	+0.0	35.7	50.0	-14.3	RETUR	
			+0.2	+0.0	+0.1							
10	13.761M	24.0	+10.1	+0.4	+0.2	+0.1	+0.0	35.1	50.0	-14.9	RETUR	
			+0.2	+0.0	+0.1							
11	14.203M	24.0	+10.1	+0.4	+0.2	+0.1	+0.0	35.1	50.0	-14.9	RETUR	
			+0.2	+0.0	+0.1							
12	14.934M	24.0	+10.1	+0.4	+0.2	+0.1	+0.0	35.1	50.0	-14.9	RETUR	
			+0.2	+0.0	+0.1							
13	14.492M	23.9	+10.1	+0.4	+0.2	+0.1	+0.0	35.0	50.0	-15.0	RETUR	
			+0.2	+0.0	+0.1							
14	13.328M	22.9	+10.1	+0.4	+0.2	+0.1	+0.0	34.0	50.0	-16.0	RETUR	
			+0.2	+0.0	+0.1							
15	13.906M	22.9	+10.1	+0.4	+0.2	+0.1	+0.0	34.0	50.0	-16.0	RETUR	
			+0.2	+0.0	+0.1							
16	13.834M	21.8	+10.1	+0.4	+0.2	+0.1	+0.0	32.9	50.0	-17.1	RETUR	
			+0.2	+0.0	+0.1							



17												
18	17	14.853M	20.3	+10.1	+0.4	+0.2	+0.1	+0.0	31.4	50.0	-18.6	RETUR
19				+0.2	+0.0	+0.1						
19	18	14.276M	20.2	+10.1	+0.4	+0.2	+0.1	+0.0	31.3	50.0	-18.7	RETUR
10.2				+0.2	+0.0	+0.1						
20 27.124M 17.8 +10.1 +0.7 +0.3 +0.1 +0.0 29.4 50.0 -20.6 RETUR +0.2 +0.0 +0.2 +0.1 +0.0 28.1 50.0 -21.9 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 27.9 50.0 -22.1 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 27.9 50.0 -22.1 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 26.9 50.0 -23.1 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 26.9 50.0 -23.1 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 26.7 50.0 -23.3 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 26.7 50.0 -23.3 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 32.5 55.9 -23.4 RETUR +0.2 +0.0 +0.1 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.1 +0.0 26.6 50.0 -23.4 RETUR +0.2 +0.0 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 +0.0 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 +0.0 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 +0.0 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 +0.0 26.4 50.0 -25.4 RETUR +0.2 +0.0 +0.1 +0.0 26.4 50.0 -25.7 RETUR +0.2 +0.0 +0.1 +0.0 40.1 +0.2 +0.0 +0.1 +0.0 40.1 +0.2 +0.0 +0.1 +0.0 40.1 +0.2 +0.0 +0.1 +0.0 40.1 +0.2 +0.0 +0.1 +0.2 +0.0 +0.1 +0.0 40.1 +0.2 +0.0 +0.1 +0.0 40.1 +0.2 +0.0 +0.1 +0.2 +0.0 +0.1 +0.0 40.1 +0.2 +0.0 +0.1 +0.0 40.1 +0.2 +0.0 +0.1 +0.0 40.1 +0.2 +0.0 +0.1 +0.0 40.1 +0.2 +0.0 +0.1 +0.0 40.1 +0.2 +0.0 +0.1 +0.0 40.1 +0.2 +0.0 +0.1 +0.2 +0.0 +0.1 +0.0 40.1 +0.2 +0.0 +0.1 +0.0 40.1 +0.2 +0.0 +0.1 +0.0 40.1 +0.2 +0.0 +0.1 +0.0 40.1 +0.2 +0.0 +0.1 +0.0 40.1	19	14.059M	18.9	+10.1	+0.4	+0.2	+0.1	+0.0	30.0	50.0	-20.0	RETUR
+0.2				+0.2	+0.0	+0.1						
21 12.597M 17.1 +10.1 +0.3 +0.2 +0.1 +0.0 28.1 50.0 -21.9 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 27.9 50.0 -22.1 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 27.9 50.0 -22.1 RETUR +0.2 +0.0 +0.1 +0.2 +0.0 +0.1 +0.0 26.9 50.0 -23.1 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 26.9 50.0 -23.1 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 26.7 50.0 -23.3 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 26.7 50.0 -23.3 RETUR +0.2 +0.0 +0.1 +0.1 +1.8 +0.0 +0.0 32.5 55.9 -23.4 RETUR +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.1 +0.2 +0.0 +0.1 +0.4 +0.2 +0.1 +0.0 24.6 50.0 -25.4 RETUR +0.2 +0.0 +0.1 +0.2 +0.0 +0.1 +0.2 +0.1 +0.0 24.3 50.0 -25.7 RETUR +0.2 +0.0 +0.1 +0.2 +0.0 +0.1 +0.4 +0.2 +0.1 +0.0 24.3 50.0 -33.7 RETUR +0.2 +0.0 +0.1	20	27.124M	17.8	+10.1	+0.7	+0.3	+0.1	+0.0	29.4	50.0	-20.6	RETUR
1.867M				+0.2	+0.0	+0.2						
22 11.867M 17.0 +10.1 +0.3 +0.1 +0.1 +0.0 27.9 50.0 -22.1 RETUR +0.2 +0.0 +0.1 +0.0 +0.1 +0.0 26.9 50.0 -23.1 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 26.9 50.0 -23.1 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 26.7 50.0 -23.3 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 26.7 50.0 -23.3 RETUR +0.2 +0.0 +0.1 +0.1 +0.1 +0.0 32.5 55.9 -23.4 RETUR +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.1 +0.2 +0.0 +0.1 +0.2 +0.0 +0.1 +0.0 26.6 50.0 -23.4 RETUR +0.2 +0.0 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 24.6 50.0 -25.4 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 24.6 50.0 -25.4 RETUR +0.2 +0.0 +0.1 +0.1 +0.0 24.3 50.0 -25.7 RETUR +0.2 +0.0 +0.1 +0.0 40.1 +0.0 40.1 +0.2 +0.1 +0.0 24.3 50.0 -25.7 RETUR +0.2 +0.0 +0.1 +0.2 +0.1 +0.0 24.3 50.0 -33.7 RETUR +0.2 +0.0 +0.1 +0.2 +0.1 +0.0 40.1 +0.2 +	21	12.597M	17.1	+10.1	+0.3	+0.2	+0.1	+0.0	28.1	50.0	-21.9	RETUR
+0.2				+0.2	+0.0	+0.1						
23 15.006M 15.8 +10.1 +0.4 +0.2 +0.1 +0.0 26.9 50.0 -23.1 RETUR	22	11.867M	17.0	+10.1	+0.3	+0.1	+0.1	+0.0	27.9	50.0	-22.1	RETUR
+0.2				+0.2	+0.0	+0.1						
24 12.155M 15.8 +10.1 +0.3 +0.1 +0.1 +0.0 26.7 50.0 -23.3 RETUR 25 151.819k 20.5 +10.1 +0.1 +1.8 +0.0 +0.0 32.5 55.9 -23.4 RETUR 26 15.322M 15.5 +10.1 +0.4 +0.2 +0.1 +0.0 26.6 50.0 -23.4 RETUR 27 13.031M 15.4 +10.1 +0.3 +0.2 +0.1 +0.0 26.4 50.0 -23.6 RETUR 28 14.709M 15.3 +10.1 +0.4 +0.2 +0.1 +0.0 26.4 50.0 -23.6 RETUR 29 13.256M 13.5 +10.1 +0.4 +0.2 +0.1 +0.0 24.6 50.0 -25.4 RETUR 30 14.781M 13.2 +10.1 +0.4 +0.2 +0.1 +0.0 24.3 50.0 -25.7 RETUR 31 13.572M 5.2 +10.1 +0.4 +0.2 +0.1 +0.0 16.3	23	15.006M	15.8	+10.1	+0.4	+0.2	+0.1	+0.0	26.9	50.0	-23.1	RETUR
+0.2 +0.0 +0.1 25 151.819k 20.5 +10.1 +0.1 +1.8 +0.0 +0.0 32.5 55.9 -23.4 RETUR +0.0 +0.0 +0.0 +0.0 26 15.322M 15.5 +10.1 +0.4 +0.2 +0.1 +0.0 26.6 50.0 -23.4 RETUR +0.2 +0.0 +0.1 27 13.031M 15.4 +10.1 +0.3 +0.2 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 28 14.709M 15.3 +10.1 +0.4 +0.2 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 29 13.256M 13.5 +10.1 +0.4 +0.2 +0.1 +0.0 24.6 50.0 -25.4 RETUR +0.2 +0.0 +0.1 30 14.781M 13.2 +10.1 +0.4 +0.2 +0.1 +0.0 24.6 50.0 -25.7 RETUR +0.2 +0.0 +0.1 31 13.572M 5.2 +10.1 +0.4 +0.2 +0.1 +0.0 16.3 50.0 -33.7 RETUR +0.2 +0.0 +0.1 Antenna disconnected and				+0.2	+0.0	+0.1						
25 151.819k 20.5 +10.1 +0.1 +1.8 +0.0 +0.0 32.5 55.9 -23.4 RETUR +0.0 +0.0 +0.0 +0.0 +0.0 26 15.322M 15.5 +10.1 +0.4 +0.2 +0.1 +0.0 26.6 50.0 -23.4 RETUR +0.2 +0.0 +0.1 27 13.031M 15.4 +10.1 +0.3 +0.2 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 28 14.709M 15.3 +10.1 +0.4 +0.2 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 29 13.256M 13.5 +10.1 +0.4 +0.2 +0.1 +0.0 24.6 50.0 -25.4 RETUR +0.2 +0.0 +0.1 30 14.781M 13.2 +10.1 +0.4 +0.2 +0.1 +0.0 24.3 50.0 -25.7 RETUR +0.2 +0.0 +0.1 31 13.572M 5.2 +10.1 +0.4 +0.2 +0.1 +0.0 16.3 50.0 -33.7 RETUR Antenna disconnected and	24	12.155M	15.8	+10.1	+0.3	+0.1	+0.1	+0.0	26.7	50.0	-23.3	RETUR
+0.0 +0.0 +0.0 +0.0 26 15.322M 15.5 +10.1 +0.4 +0.2 +0.1 +0.0 26.6 50.0 -23.4 RETUR +0.2 +0.0 +0.1 27 13.031M 15.4 +10.1 +0.3 +0.2 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 28 14.709M 15.3 +10.1 +0.4 +0.2 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 29 13.256M 13.5 +10.1 +0.4 +0.2 +0.1 +0.0 24.6 50.0 -25.4 RETUR +0.2 +0.0 +0.1 30 14.781M 13.2 +10.1 +0.4 +0.2 +0.1 +0.0 24.3 50.0 -25.7 RETUR +0.2 +0.0 +0.1 31 13.572M 5.2 +10.1 +0.4 +0.2 +0.1 +0.0 16.3 50.0 -33.7 RETUR +0.2 +0.0 +0.1 Antenna disconnected and				+0.2	+0.0	+0.1						
26 15.322M 15.5 +10.1 +0.4 +0.2 +0.1 +0.0 26.6 50.0 -23.4 RETUR +0.2 +0.0 +0.1 27 13.031M 15.4 +10.1 +0.3 +0.2 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 28 14.709M 15.3 +10.1 +0.4 +0.2 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 29 13.256M 13.5 +10.1 +0.4 +0.2 +0.1 +0.0 24.6 50.0 -25.4 RETUR +0.2 +0.0 +0.1 30 14.781M 13.2 +10.1 +0.4 +0.2 +0.1 +0.0 24.3 50.0 -25.7 RETUR +0.2 +0.0 +0.1 31 13.572M 5.2 +10.1 +0.4 +0.2 +0.1 +0.0 16.3 50.0 -33.7 RETUR +0.2 +0.0 +0.1 31 13.572M 5.2 +10.1 +0.4 +0.2 +0.1 +0.0 16.3 50.0 -33.7 RETUR Antenna disconnected and	25	151.819k	20.5	+10.1	+0.1	+1.8	+0.0	+0.0	32.5	55.9	-23.4	RETUR
+0.2 +0.0 +0.1 27 13.031M 15.4 +10.1 +0.3 +0.2 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 28 14.709M 15.3 +10.1 +0.4 +0.2 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 29 13.256M 13.5 +10.1 +0.4 +0.2 +0.1 +0.0 24.6 50.0 -25.4 RETUR +0.2 +0.0 +0.1 30 14.781M 13.2 +10.1 +0.4 +0.2 +0.1 +0.0 24.3 50.0 -25.7 RETUR +0.2 +0.0 +0.1 31 13.572M 5.2 +10.1 +0.4 +0.2 +0.1 +0.0 16.3 50.0 -33.7 RETUR +0.2 +0.0 +0.1 Antenna disconnected and				+0.0	+0.0	+0.0						
27 13.031M 15.4 +10.1 +0.3 +0.2 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 28 14.709M 15.3 +10.1 +0.4 +0.2 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 29 13.256M 13.5 +10.1 +0.4 +0.2 +0.1 +0.0 24.6 50.0 -25.4 RETUR +0.2 +0.0 +0.1 30 14.781M 13.2 +10.1 +0.4 +0.2 +0.1 +0.0 24.3 50.0 -25.7 RETUR +0.2 +0.0 +0.1 31 13.572M 5.2 +10.1 +0.4 +0.2 +0.1 +0.0 16.3 50.0 -33.7 RETUR +0.2 +0.0 +0.1 32 40.0 +0.1 +0.2 +0.1 +0.0 16.3 50.0 -33.7 RETUR Antenna disconnected and	26	15.322M	15.5	+10.1	+0.4	+0.2	+0.1	+0.0	26.6	50.0	-23.4	RETUR
+0.2 +0.0 +0.1 28 14.709M 15.3 +10.1 +0.4 +0.2 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 29 13.256M 13.5 +10.1 +0.4 +0.2 +0.1 +0.0 24.6 50.0 -25.4 RETUR +0.2 +0.0 +0.1 30 14.781M 13.2 +10.1 +0.4 +0.2 +0.1 +0.0 24.3 50.0 -25.7 RETUR +0.2 +0.0 +0.1 31 13.572M 5.2 +10.1 +0.4 +0.2 +0.1 +0.0 16.3 50.0 -33.7 RETUR +0.2 +0.0 +0.1 Antenna disconnected and				+0.2	+0.0	+0.1						
28 14.709M 15.3 +10.1 +0.4 +0.2 +0.1 +0.0 26.4 50.0 -23.6 RETUR +0.2 +0.0 +0.1 29 13.256M 13.5 +10.1 +0.4 +0.2 +0.1 +0.0 24.6 50.0 -25.4 RETUR +0.2 +0.0 +0.1 30 14.781M 13.2 +10.1 +0.4 +0.2 +0.1 +0.0 24.3 50.0 -25.7 RETUR +0.2 +0.0 +0.1 31 13.572M 5.2 +10.1 +0.4 +0.2 +0.1 +0.0 16.3 50.0 -33.7 RETUR +0.2 +0.0 +0.1 32 40.0 +0.1 +0.2 +0.1 +0.0 16.3 50.0 -33.7 RETUR Antenna disconnected and	27	13.031M	15.4	+10.1	+0.3	+0.2	+0.1	+0.0	26.4	50.0	-23.6	RETUR
+0.2 +0.0 +0.1 29 13.256M 13.5 +10.1 +0.4 +0.2 +0.1 +0.0 24.6 50.0 -25.4 RETUR +0.2 +0.0 +0.1 30 14.781M 13.2 +10.1 +0.4 +0.2 +0.1 +0.0 24.3 50.0 -25.7 RETUR +0.2 +0.0 +0.1 31 13.572M 5.2 +10.1 +0.4 +0.2 +0.1 +0.0 16.3 50.0 -33.7 RETUR +0.2 +0.0 +0.1 Antenna disconnected and				+0.2	+0.0	+0.1						
29 13.256M 13.5 +10.1 +0.4 +0.2 +0.1 +0.0 24.6 50.0 -25.4 RETUR +0.2 +0.0 +0.1 30 14.781M 13.2 +10.1 +0.4 +0.2 +0.1 +0.0 24.3 50.0 -25.7 RETUR +0.2 +0.0 +0.1 31 13.572M 5.2 +10.1 +0.4 +0.2 +0.1 +0.0 16.3 50.0 -33.7 RETUR +0.2 +0.0 +0.1 Antenna disconnected and	28	14.709M	15.3	+10.1	+0.4	+0.2	+0.1	+0.0	26.4	50.0	-23.6	RETUR
+0.2 +0.0 +0.1 30 14.781M 13.2 +10.1 +0.4 +0.2 +0.1 +0.0 24.3 50.0 -25.7 RETUR +0.2 +0.0 +0.1 31 13.572M 5.2 +10.1 +0.4 +0.2 +0.1 +0.0 16.3 50.0 -33.7 RETUR +0.2 +0.0 +0.1 Antenna disconnected and				+0.2	+0.0	+0.1						
30 14.781M 13.2 +10.1 +0.4 +0.2 +0.1 +0.0 24.3 50.0 -25.7 RETUR +0.2 +0.0 +0.1 31 13.572M 5.2 +10.1 +0.4 +0.2 +0.1 +0.0 16.3 50.0 -33.7 RETUR +0.2 +0.0 +0.1 Antenna disconnected and	29	13.256M	13.5	+10.1	+0.4	+0.2	+0.1	+0.0	24.6	50.0	-25.4	RETUR
+0.2 +0.0 +0.1 31 13.572M 5.2 +10.1 +0.4 +0.2 +0.1 +0.0 16.3 50.0 -33.7 RETUR +0.2 +0.0 +0.1 Antenna disconnected and				+0.2	+0.0	+0.1						
31 13.572M 5.2 +10.1 +0.4 +0.2 +0.1 +0.0 16.3 50.0 -33.7 RETUR +0.2 +0.0 +0.1 Antenna disconnected and	30	14.781M	13.2	+10.1	+0.4	+0.2	+0.1	+0.0	24.3	50.0	-25.7	RETUR
+0.2 +0.0 +0.1 Antenna disconnected and				+0.2	+0.0	+0.1						
disconnected and	31	13.572M	5.2	+10.1	+0.4	+0.2	+0.1	+0.0	16.3	50.0	-33.7	RETUR
				+0.2	+0.0	+0.1						
replaced with load										disconnecte	ed and	
										replaced wi	th load	



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

Customer: WaveLynx Technologies Corporation.

Specification: 15.207 AC Mains - Average

Work Order #: 97029 Date: 5/10/2016
Test Type: Conducted Emissions Time: 10:38:50
Tested By: Skip Doyle / Benny Lovan Sequence#: 13

Software: EMITest 5.03.02 120V 60Hz

Equipment Tested:

Device Manufacturer Model # S/N
Configuration 7

Support Equipment:

Device Manufacturer Model # S/N
Configuration 7

Test Conditions / Notes:

Test Method: ANSI C 63.10 2013

Frequency Range of Interest:

0.150-30MHz

RBW = 9kHz; VBW > 9kHz

Environmental Conditions: Temperature: 21°C Relative Humidity: 67%

Atmospheric Pressure: 97.5kPa

Highest Generated Frequency: 27.12 MHz

The EUT is running at 13.56MHz.

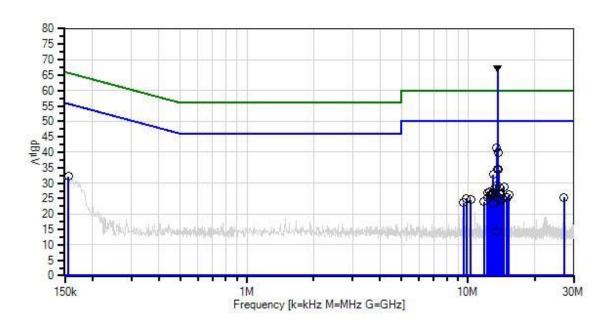
The EUT is powered by a DC power supply at 12VDC. The EUT is setup to continuously transmit at 13.56MHz.

AC Conducted Emissions is being performed on the AC portion of the AC/DC supply.

Page 73 of 96 Report No.: 97029-15A



WaveLynx Technologies Corporation. WO#: 97029 Sequence#: 13 Date: 5/10/2016 15.207 AC Mains - Average Test Lead: 120V 60Hz LINE



× QP Readings Software Version: 5.03.02 Readings

* Average Readings

1 - 15.207 AC Mains - Average

O Peak Readings
▼ Ambient
2 - 15.207 AC Mains - Quasi-peak



ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP06770	Attenuator	PE7010-10	1/15/2015	1/15/2017
	AN01248	50uH LISN-Line 1	8028-50-TS-24-	1/4/2016	1/4/2017
		(Return) (dB)	BNC		
T2	AN01248	50uH LISN-Line 2	8028-50-TS-24-	1/4/2016	1/4/2017
		(Line) (dB)	BNC		
T3	AN02609	High Pass Filter	HE9615-150K-	2/18/2016	2/18/2018
			50-720B		
T4	ANP06884	Cable	LMR195-FR-4	10/27/2015	10/27/2017
T5	ANMD INT	Cable	Underground	3/17/2016	3/17/2018
			cables only		
T6	AN02111	Spectrum Analyzer	8593EM	6/4/2015	6/4/2016
T7	ANP01153	Cable	NA	3/3/2016	3/3/2018

#	Freq				ırgin.				id: LINE		
	rrcq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7						
	MHz	dΒμV	dB	dB	dB	dB	Table	dΒμV	dΒμV	dB	Ant
	13.572M	56.5	+10.1	+0.3	+0.2	+0.1	+0.0	67.5	50.0	+17.5	LINE
	mbient		+0.2	+0.0	+0.1				Fundamen		
2	13.455M	30.5	+10.1	+0.3	+0.2	+0.1	+0.0	41.5	50.0	-8.5	LINE
			+0.2	+0.0	+0.1						
3	13.671M	28.7	+10.1	+0.3	+0.2	+0.1	+0.0	39.7	50.0	-10.3	LINE
			+0.2	+0.0	+0.1						
4	13.527M	23.5	+10.1	+0.3	+0.2	+0.1	+0.0	34.5	50.0	-15.5	LINE
			+0.2	+0.0	+0.1						
5	13.743M	23.4	+10.1	+0.3	+0.2	+0.1	+0.0	34.4	50.0	-15.6	LINE
			+0.2	+0.0	+0.1						
6	13.012M	21.8	+10.1	+0.3	+0.2	+0.1	+0.0	32.8	50.0	-17.2	LINE
			+0.2	+0.0	+0.1						
7	13.382M	18.0	+10.1	+0.3	+0.2	+0.1	+0.0	29.0	50.0	-21.0	LINE
			+0.2	+0.0	+0.1						
8	13.815M	17.8	+10.1	+0.3	+0.2	+0.1	+0.0	28.8	50.0	-21.2	LINE
			+0.2	+0.0	+0.1						
9	14.546M	17.8	+10.1	+0.3	+0.2	+0.1	+0.0	28.8	50.0	-21.2	LINE
			+0.2	+0.0	+0.1						
10	13.229M	17.1	+10.1	+0.3	+0.2	+0.1	+0.0	28.1	50.0	-21.9	LINE
			+0.2	+0.0	+0.1						
11	12.507M	16.1	+10.1	+0.3	+0.2	+0.1	+0.0	27.1	50.0	-22.9	LINE
			+0.2	+0.0	+0.1						
12	12.209M	16.1	+10.1	+0.3	+0.1	+0.1	+0.0	27.0	50.0	-23.0	LINE
			+0.2	+0.0	+0.1						
13	12.940M	15.7	+10.1	+0.3	+0.2	+0.1	+0.0	26.7	50.0	-23.3	LINE
			+0.2	+0.0	+0.1						
14	13.888M	15.6	+10.1	+0.3	+0.2	+0.1	+0.0	26.6	50.0	-23.4	LINE
			+0.2	+0.0	+0.1						
15	155.455k	20.8	+10.1	+0.1	+1.2	+0.0	+0.0	32.2	55.7	-23.5	LINE
			+0.0	+0.0	+0.0						
16	14.176M	15.4	+10.1	+0.3	+0.2	+0.1	+0.0	26.4	50.0	-23.6	LINE
			+0.2	+0.0	+0.1						



17	12.579M	15.3	+10.1	+0.3	+0.2	+0.1	+0.0	26.3	50.0	-23.7	LINE
			+0.2	+0.0	+0.1						
18	15.268M	15.2	+10.1	+0.3	+0.2	+0.1	+0.0	26.2	50.0	-23.8	LINE
			+0.2	+0.0	+0.1						
19	12.724M	14.8	+10.1	+0.3	+0.2	+0.1	+0.0	25.8	50.0	-24.2	LINE
			+0.2	+0.0	+0.1						
20	13.310M	14.5	+10.1	+0.3	+0.2	+0.1	+0.0	25.5	50.0	-24.5	LINE
			+0.2	+0.0	+0.1						
21	27.124M	14.4	+10.1	+0.1	+0.3	+0.1	+0.0	25.4	50.0	-24.6	LINE
			+0.2	+0.0	+0.2						
22	14.979M	14.3	+10.1	+0.3	+0.2	+0.1	+0.0	25.3	50.0	-24.7	LINE
			+0.2	+0.0	+0.1						
23	12.291M	14.3	+10.1	+0.3	+0.1	+0.1	+0.0	25.2	50.0	-24.8	LINE
			+0.2	+0.0	+0.1						
24	9.837M	14.2	+10.1	+0.2	+0.2	+0.1	+0.0	25.0	50.0	-25.0	LINE
			+0.1	+0.0	+0.1						
25	14.249M	13.9	+10.1	+0.3	+0.2	+0.1	+0.0	24.9	50.0	-25.1	LINE
			+0.2	+0.0	+0.1						
26	10.279M	13.8	+10.1	+0.2	+0.2	+0.1	+0.0	24.6	50.0	-25.4	LINE
			+0.1	+0.0	+0.1						
27	14.104M	13.5	+10.1	+0.3	+0.2	+0.1	+0.0	24.5	50.0	-25.5	LINE
			+0.2	+0.0	+0.1						
28	11.776M	13.0	+10.1	+0.3	+0.1	+0.1	+0.0	23.9	50.0	-26.1	LINE
			+0.2	+0.0	+0.1						
29	9.548M	12.8	+10.1	+0.2	+0.2	+0.1	+0.0	23.6	50.0	-26.4	LINE
			+0.1	+0.0	+0.1						
30	13.085M	12.5	+10.1	+0.3	+0.2	+0.1	+0.0	23.5	50.0	-26.5	LINE
			+0.2	+0.0	+0.1						
31	13.572M	3.2	+10.1	+0.3	+0.2	+0.1	+0.0	14.2	50.0	-35.8	LINE
			+0.2	+0.0	+0.1				Antenna		
									disconnecte	ed and	
									replaced wi	th a load	



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

Customer: WaveLynx Technologies Corporation.

Specification: 15.207 AC Mains - Average

Work Order #: 97029 Date: 5/10/2016
Test Type: Conducted Emissions Time: 10:42:12
Tested By: Skip Doyle / Benny Lovan Sequence#: 14

Software: EMITest 5.03.02 120V 60Hz

Equipment Tested:

Device Manufacturer Model # S/N
Configuration 7

Support Equipment:

Device Manufacturer Model # S/N
Configuration 7

Test Conditions / Notes:

Test Method: ANSI C 63.10 2013

Frequency Range of Interest:

0.150-30MHz

RBW = 9kHz; VBW > 9kHz

Environmental Conditions: Temperature: 21°C Relative Humidity: 67% Atmospheric Pressure: 97.5kPa

Highest Generated Frequency: 27.12 MHz

The EUT is running at 13.56MHz.

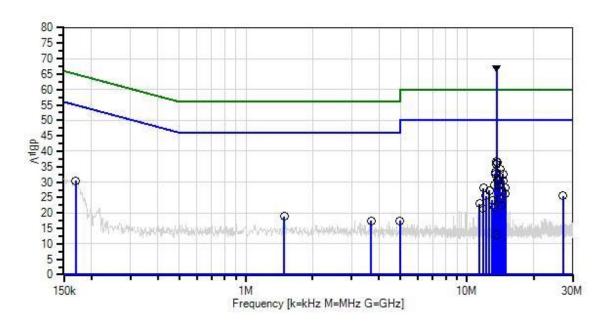
The EUT is powered by a DC power supply at 12VDC. The EUT is setup to continuously transmit at 13.56MHz.

AC Conducted Emissions is being performed on the AC portion of the AC/DC supply.

Page 77 of 96 Report No.: 97029-15A



WaveLynx Technologies Corporation. WO#: 97029 Sequence#: 14 Date: 5/10/2016 15.207 AC Mains - Average Test Lead: 120V 60Hz RETURN



× QP Readings Software Version: 5.03.02 Readings

Average Readings

1 - 15.207 AC Mains - Average

O Peak Readings

▼ Ambient

2 - 15.207 AC Mains - Quasi-peak



ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP06770	Attenuator	PE7010-10	1/15/2015	1/15/2017
T2	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		
T3	AN02609	High Pass Filter	HE9615-150K-	2/18/2016	2/18/2018
			50-720B		
T4	ANP06884	Cable	LMR195-FR-4	10/27/2015	10/27/2017
T5	ANMD INT	Cable	Underground	3/17/2016	3/17/2018
			cables only		
T6	AN02111	Spectrum Analyzer	8593EM	6/4/2015	6/4/2016
T7	ANP01153	Cable	NA	3/3/2016	3/3/2018

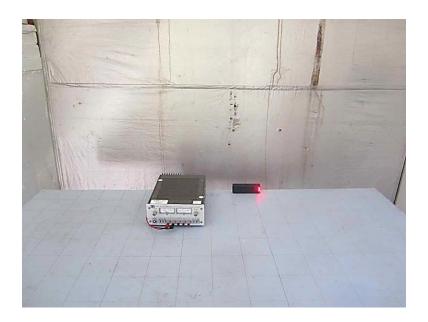
Measu	Measurement Data: Reading listed by margin.					Test Lead: RETURN					
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7						
	MHz	dΒμV	dB	dB	dB	dB	Table	dΒμV	dΒμV	dB	Ant
1	13.572M	56.0	+10.1	+0.4	+0.2	+0.1	+0.0	67.1	50.0	+17.1	RETUR
	Ambient		+0.2	+0.0	+0.1				Fundamen	tal	
2	13.617M	25.7	+10.1	+0.4	+0.2	+0.1	+0.0	36.8	50.0	-13.2	RETUR
			+0.2	+0.0	+0.1						
3	13.689M	25.2	+10.1	+0.4	+0.2	+0.1	+0.0	36.3	50.0	-13.7	RETUR
			+0.2	+0.0	+0.1						
4	13.536M	24.6	+10.1	+0.4	+0.2	+0.1	+0.0	35.7	50.0	-14.3	RETUR
			+0.2	+0.0	+0.1						
5	14.122M	23.0	+10.1	+0.4	+0.2	+0.1	+0.0	34.1	50.0	-15.9	RETUR
			+0.2	+0.0	+0.1						
6	13.464M	22.0	+10.1	+0.4	+0.2	+0.1	+0.0	33.1	50.0	-16.9	RETUR
			+0.2	+0.0	+0.1						
7	13.391M	21.5	+10.1	+0.4	+0.2	+0.1	+0.0	32.6	50.0	-17.4	RETUR
			+0.2	+0.0	+0.1						
8	14.555M	21.5	+10.1	+0.4	+0.2	+0.1	+0.0	32.6	50.0	-17.4	RETUR
			+0.2	+0.0	+0.1						
9	13.761M	19.7	+10.1	+0.4	+0.2	+0.1	+0.0	30.8	50.0	-19.2	RETUR
			+0.2	+0.0	+0.1						
10	14.637M	19.4	+10.1	+0.4	+0.2	+0.1	+0.0	30.5	50.0	-19.5	RETUR
			+0.2	+0.0	+0.1						
11	13.834M	19.3	+10.1	+0.4	+0.2	+0.1	+0.0	30.4	50.0	-19.6	RETUR
			+0.2	+0.0	+0.1						
12	13.319M	18.0	+10.1	+0.4	+0.2	+0.1	+0.0	29.1	50.0	-20.9	RETUR
			+0.2	+0.0	+0.1						
13	13.906M	17.9	+10.1	+0.4	+0.2	+0.1	+0.0	29.0	50.0	-21.0	RETUR
			+0.2	+0.0	+0.1						
14	14.853M	17.1	+10.1	+0.4	+0.2	+0.1	+0.0	28.2	50.0	-21.8	RETUR
			+0.2	+0.0	+0.1						
15	11.867M	17.1	+10.1	+0.3	+0.1	+0.1	+0.0	28.0	50.0	-22.0	RETUR
			+0.2	+0.0	+0.1						
16	12.597M	16.2	+10.1	+0.3	+0.2	+0.1	+0.0	27.2	50.0	-22.8	RETUR
			+0.2	+0.0	+0.1						



17	14.483M	15.7	+10.1	+0.4	+0.2	+0.1	+0.0	26.8	50.0	-23.2	RETUR
			+0.2	+0.0	+0.1						
18	14.925M	15.3	+10.1	+0.4	+0.2	+0.1	+0.0	26.4	50.0	-23.6	RETUR
			+0.2	+0.0	+0.1						
19	27.124M	14.0	+10.1	+0.7	+0.3	+0.1	+0.0	25.6	50.0	-24.4	RETUR
			+0.2	+0.0	+0.2						
20	169.999k	19.9	+10.1	+0.1	+0.4	+0.0	+0.0	30.5	55.0	-24.5	RETUR
			+0.0	+0.0	+0.0						
21	12.155M	14.6	+10.1	+0.3	+0.1	+0.1	+0.0	25.5	50.0	-24.5	RETUR
			+0.2	+0.0	+0.1						
22	14.194 M	13.7	+10.1	+0.4	+0.2	+0.1	+0.0	24.8	50.0	-25.2	RETUR
			+0.2	+0.0	+0.1						
23	13.031M	13.1	+10.1	+0.3	+0.2	+0.1	+0.0	24.1	50.0	-25.9	RETUR
			+0.2	+0.0	+0.1						
24	11.379M	12.0	+10.1	+0.3	+0.2	+0.1	+0.0	23.0	50.0	-27.0	RETUR
			+0.2	+0.0	+0.1						
25	1.491M	8.4	+10.1	+0.1	+0.2	+0.0	+0.0	18.9	46.0	-27.1	RETUR
			+0.1	+0.0	+0.0						
26	14.267M	11.5	+10.1	+0.4	+0.2	+0.1	+0.0	22.6	50.0	-27.4	RETUR
			+0.2	+0.0	+0.1						
27	13.247M	10.7	+10.1	+0.4	+0.2	+0.1	+0.0	21.8	50.0	-28.2	RETUR
			+0.2	+0.0	+0.1						
28	11.794 M	10.7	+10.1	+0.3	+0.1	+0.1	+0.0	21.6	50.0	-28.4	RETUR
			+0.2	+0.0	+0.1						
29	3.692M	7.0	+10.1	+0.1	+0.1	+0.0	+0.0	17.5	46.0	-28.5	RETUR
			+0.1	+0.0	+0.1						
30	4.964M	7.0	+10.1	+0.1	+0.1	+0.0	+0.0	17.5	46.0	-28.5	RETUR
			+0.1	+0.0	+0.1						
31	13.572M	1.9	+10.1	+0.4	+0.2	+0.1	+0.0	13.0	50.0	-37.0	RETUR
			+0.2	+0.0	+0.1				Antenna		
									disconnecte		
									replaced wi	th a load	



Test Setup Photos







APPENDIX A: TEST DATE 12/13-15/2017

SUMMARY OF RESULTS

Standard / Specification: FCC Part 15 Subpart C - 15.225

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

NA = Not Applicable

NP = CKC Laboratories was not contracted to perform the test.

Modifications During Testing

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

Summary of Conditions

No modifications were made during testing.

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 82 of 96 Report No.: 97029-15A

^{*}Spot checks performed on worst case emissions



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
ET10-7	WaveLynx	ET10-7	N/A

Support Equipment:

Device	Manufacturer	Model #	S/N
Power Supply	HP	8721A	

General Product Information:

Product Information	Manufacturer-Provided Details
Equipment Type:	Stand-Alone Equipment
Modulation Type(s):	AM
Antenna Type(s) and Gain:	Inductive Loop
Antenna Connection Type:	Integral
Nominal Input Voltage:	12VDC
Firmware / Software used for Test:	WL220

Page 83 of 96 Report No.: 97029-15A



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

	Test Data Summary – Radiated Field Strength Measurement									
Frequency (MHz) Modulation Ant. Type Measured Limit (dBuV/m @ 30m) (dBuV/m @ 30m)										
13.56	AM	Integral	35.5	≤84	Pass					

Test Data

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

Customer: WaveLynx Technologies Corporation.

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

Work Order #: 100602 Date: 12/13/2017 Test Type: Time: 12:21:25 **Maximized Emissions**

Tested By: Michael Rauch Jr. Sequence#: 2

Software: EMITest 5.03.11

Equipment Tested:

Device	Manufacturer	Model #	S/N	
Configuration 1				

Support Equipment:

Device	Manufacturer	Model #	S/N	
Configuration 1				

Test Conditions / Notes:

Radiated Emissions Spurious Measurements (13.56MHz)

Temperature: 12.2°C Humidity:60%

Atmospheric Pressure: 97.8kPa Method: ANSI C63.10 (2013)

Modulation: AM Antenna Type: Integral

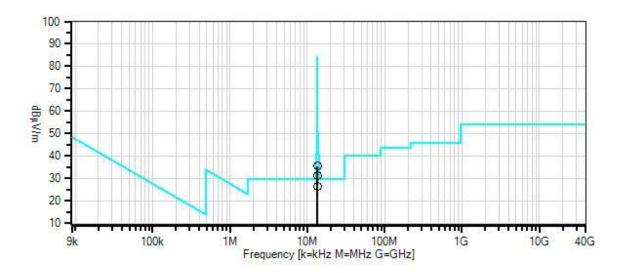
The EUT is powered by a DC power supply at 12VDC. The customer declares a typical configuration will be wall mounted in an upright/vertical (Y-axis) orientation.

The EUT is setup on an 80cm foam block. It has been programmed to continuously transmit the RFID signal at 13.56MHz.

> Page 84 of 96 Report No.: 97029-15A



WaveLynx Technologies Corporation. WO#: 100602 Sequence#: 2 Date: 12/13/2017 15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter) Test Distance: 3 Meters



Readings

- Peak Readings QP Readings
- Average Readings
- Ambient

Software Version: 5.03.11

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



ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANMD3M	Cable		3/17/2016	3/17/2018
T2	ANP07059	Cable	CNT-195-FR-3	11/8/2016	11/8/2018
Т3	AN03634	Spectrum Analyzer	E4445A	8/30/2017	8/30/2018
T4	ANP06229	Cable-Amplitude	CXTA04A-50	11/29/2016	11/29/2018
		15 to 45degC (dB)			
T5	AN00226	Loop Antenna	6502	4/4/2016	4/4/2018

Measu	rement Date	ı: Re	ading lis	ted by ma	argin.		Τe	est Distanc	e: 3 Meters		
#	Freq	Rdng	T1	T2	Т3	T4	Dist	Corr	Spec	Margin	Polar
			T5								
	MHz	dΒμV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	13.560M	65.0	+0.4	+0.1	+0.0	+0.4	-40.0	35.5	84.0	-48.5	Paral
			+9.6				210		12VDC		100
2	13.560M	60.5	+0.4	+0.1	+0.0	+0.4	-40.0	31.0	84.0	-53.0	Paral
			+9.6				214		12VDC		100
3	13.560M	55.8	+0.4	+0.1	+0.0	+0.4	-40.0	26.3	84.0	-57.7	Perpe
			+9.6				125		12VDC		100
4	13.560M	35.2	+0.4	+0.1	+0.0	+0.4	-40.0	5.7	84.0	-78.3	Z-Axi
			+9.6				238		12VDC		100



Test Setup Photo(s)







15.225(d) Radiated Emissions

Test Data

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

Customer: WaveLynx Technologies Corporation.

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

 Work Order #:
 100602
 Date:
 12/13/2017

 Test Type:
 Maximized Emissions
 Time:
 19:29:05

Tested By: Randal Clark Sequence#: 4

Software: EMITest 5.03.11

Equipment Tested:

Device	Manufacturer	Model #	S/N	
Configuration 1				

Support Equipment:

Device	Manufacturer	Model #	S/N		
Configuration 1					

Test Conditions / Notes:

Radiated Emissions Spurious Measurements (13.56MHz)

Temperature: 16°C Humidity:63%

Atmospheric Pressure: 97.8kPa

Method: ANSI C63.10 (2013)

Modulation: AM Antenna Type: Integral

The EUT is powered by a DC power supply at 12VDC. The customer declares a typical configuration will be wall mounted in an upright/vertical (Y-axis) orientation.

The EUT is setup on an 80cm foam block. It has been programmed to continuously transmit the RFID signal at

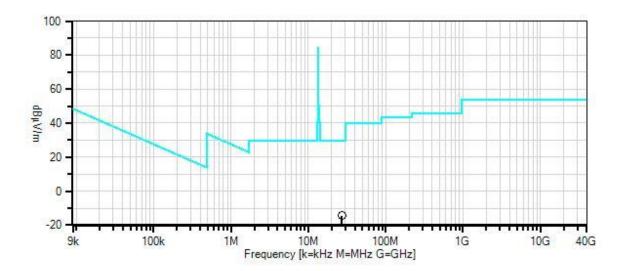
13.56MHz.

Frequency range tested: 9kHz – 30MHz

Page 88 of 96 Report No.: 97029-15A



WaveLynx Technologies Corporation. WO#: 100602 Sequence#: 4 Date: 12/13/2017 15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter) Test Distance: 3 Meters



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

Software Version: 5.03,11

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



ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANMD3M	Cable		3/17/2016	3/17/2018
T2	ANP07059	Cable	CNT-195-FR-3	11/8/2016	11/8/2018
	AN03634	Spectrum Analyzer	E4445A	8/30/2017	8/30/2018
Т3	ANP06229	Cable-Amplitude	CXTA04A-50	11/29/2016	11/29/2018
		15 to 45degC (dB)			
T4	AN00226	Loop Antenna	6502	4/4/2016	4/4/2018

Measu	rement Date	a: Re	eading lis	ted by ma	argin.		Тє	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	Т3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dΒμV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	27.120M	18.2	+0.6	+0.1	+0.5	+6.3	-40.0	-14.3	29.5	-43.8	Perpe
2	27.120M	12.1	+0.6	+0.1	+0.5	+6.3	-40.0	-20.4	29.5	-49.9	Parra

Page 90 of 96 Report No.: 97029-15A



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

Customer: WaveLynx Technologies Corporation.

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

Work Order #: 100602 Date: 12/14/2017
Test Type: Maximized Emissions Time: 13:48:10
Tested By: Randal Clark Sequence#: 14

Software: EMITest 5.03.11

Equipment Tested:

Device	Manufacturer	Model #	S/N	
Configuration 1				

Support Equipment:

Device	Manufacturer	Model #	S/N	
Configuration 1				

Test Conditions / Notes:

Radiated Emissions Spurious Measurements (13.56MHz) Readings represent spot checks on worst case harmonics.

Temperature: 18°C Humidity:27%

Atmospheric Pressure: 97.8kPa

Method: ANSI C63.10 (2013)

Modulation: AM Antenna Type: Integral

The EUT is powered by a DC power supply at 12VDC. The customer declares a typical configuration will be wall mounted in an upright/vertical (Y-axis) orientation.

The EUT is setup on an 80cm foam block. It has been programmed to continuously transmit the RFID signal at

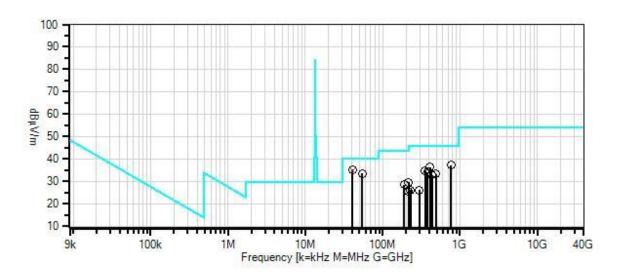
13.56MHz.

Frequency range tested: 30 – 1000MHz

Page 91 of 96 Report No.: 97029-15A



WaveLynx Technologies Corporation. WO#: 100602 Sequence#: 14 Date: 12/14/2017 15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter) Test Distance: 3 Meters



Readings

- Peak Readings QP Readings
- Average Readings
- Ambient

Software Version: 5.03.11

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



ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03634	Spectrum Analyzer	E4445A	8/30/2017	8/30/2018
T1	AN00282	Preamp	8447D	4/7/2016	4/7/2018
T2	AN01993	Biconilog Antenna	CBL6111C	11/1/2016	11/1/2018
Т3	ANP05656	Attenuator	PE7004-6	12/22/2015	12/22/2017
T4	ANMD3M	Cable		3/17/2016	3/17/2018
T5	ANP07059	Cable	CNT-195-FR-3	11/8/2016	11/8/2018
T6	ANP06229	Cable-Amplitude	CXTA04A-50	11/29/2016	11/29/2018
		15 to 45degC (dB)			
	ANP06229	Cable-Amplitude -	CXTA04A-50	11/29/2016	11/29/2018
		15 to 15degC			
T7	ANP06885	Cable	P06885	9/6/2017	9/6/2019

Meas	urement Date	a: Re	eading lis	ted by ma	argin.		Тє	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	Т3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7						
	MHz	dΒμV	dB	dB	dB	dB	Table	$dB\muV/m$	$dB\mu V/m$	dB	Ant
1	40.680M	42.7	-27.9	+12.9	+6.0	+0.7	+0.0	35.3	40.0	-4.7	Vert
			+0.1	+0.6	+0.2						
2	40.681M	42.2	-27.9	+12.9	+6.0	+0.7	+0.0	34.8	40.0	-5.2	Horiz
	QP		+0.1	+0.6	+0.2						
^	40.680M	45.1	-27.9	+12.9	+6.0	+0.7	+0.0	37.7	40.0	-2.3	Horiz
			+0.1	+0.6	+0.2						
4	54.240M	46.3	-27.8	+7.1	+6.0	+0.8	+0.0	33.5	40.0	-6.5	Vert
			+0.1	+0.8	+0.2						
5	759.360M	30.1	-28.2	+21.9	+6.0	+3.0	+0.0	37.2	46.0	-8.8	Vert
			+0.4	+3.3	+0.7						
6	406.800M	36.6	-27.7	+16.2	+6.0	+2.2	+0.0	36.4	46.0	-9.6	Vert
			+0.3	+2.3	+0.5						
7	352.560M	36.3	-27.3	+14.9	+6.0	+2.1	+0.0	34.8	46.0	-11.2	Horiz
			+0.3	+2.1	+0.4						
8	379.680M	35.2	-27.5	+15.5	+6.0	+2.1	+0.0	34.2	46.0	-11.8	Horiz
			+0.3	+2.2	+0.4						
9	488.160M	31.8	-28.2	+17.9	+6.0	+2.4	+0.0	33.3	46.0	-12.7	Horiz
			+0.3	+2.6	+0.5						
10	433.920M	32.4	-27.9	+16.8	+6.0	+2.3	+0.0	32.8	46.0	-13.2	Horiz
			+0.3	+2.4	+0.5						
11	189.840M	37.2	-27.3	+9.1	+6.0	+1.5	+0.0	28.5	43.5	-15.0	Horiz
			+0.2	+1.5	+0.3						
12	216.960M	36.5	-27.1	+10.4	+6.0	+1.6	+0.0	29.6	46.0	-16.4	Horiz
			+0.2	+1.6	+0.4						
13	298.320M	29.3	-27.0	+13.4	+6.0	+1.9	+0.0	26.1	46.0	-19.9	Horiz
			+0.2	+1.9	+0.4						
14	230.520M	31.8	-27.1	+11.3	+6.0	+1.7	+0.0	26.0	46.0	-20.0	Horiz
			+0.2	+1.7	+0.4						
15	216.960M	32.5	-27.1	+10.4	+6.0	+1.6	+0.0	25.6	46.0	-20.4	Vert
			+0.2	+1.6	+0.4						



Test Setup Photo(s)







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 95 of 96 Report No.: 97029-15A



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.

<u>Average</u>

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 96 of 96 Report No.: 97029-15A