

# 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 .....                 | 30 |
| 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.....                      | 82 |
| Equipment Under Test.....                           | 83 |
| General Product Information.....                    | 83 |
| 15.225(a)-(c) Field Strength of Fundamental.....    | 84 |
| 15.225(d) Radiated Emissions.....                   | 88 |
| Supplemental Information .....                      | 95 |
| Measurement Uncertainty .....                       | 95 |
| Emissions Test Details.....                         | 95 |

## ADMINISTRATIVE INFORMATION

### Test Report Information

**REPORT PREPARED FOR:**

WaveLynx Technologies Corporation  
100 Technology Drive, Suite B150  
Broomfield, CO 80021

Representative: Daniel Field  
Customer Reference Number: CKPO111017

**DATE OF EQUIPMENT RECEIPT:****DATE(S) OF TESTING:****REPORT PREPARED BY:**

Dianne Dudley  
CKC Laboratories, Inc.  
5046 Sierra Pines Drive  
Mariposa, CA 95338

Project Number: 100602

March 15, 2016

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.

## 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 |

## 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

## 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

#### Equipment Tested:

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

#### 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 Corporation | ET10-3  | NA  |

#### 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 Corporation | ET10-6  | NA  |

#### 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 Corporation | ET10-7  | NA  |

#### Support Equipment:

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

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

## 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:             | <p>Configuration 2 (13.56MHz Only) – Measured in Y-Axis<br/>           Configuration 3 (Set for 13.56MHz) – Measured in X-Axis<br/>           Configuration 6 (13.56 MHz Only) – Measured in X-Axis<br/>           Configuration 7 (Set for 13.56 MHz) – Measured in X-Axis</p> <p>Antenna Type: Integral<br/>           Modulation: ASK Modulation with an 847kHz subcarrier<br/>           The EUT is powered by a DC power supply at 12VDC.<br/>           Max power was measured in two orthogonalities.</p> <p>The manufacturer declares it will only ever be wall mounted in an upright (Y-axis) or sideways (X-axis) orientation.</p> <p>The OBW was performed in the worst case orientation observed during the fundamental power measurements.<br/>           The EUT is setup on an 80cm foam block.<br/>           The EUT has been programmed to continuously transmit the RFID signal at 13.56MHz.</p> <p>Method: ANSI C63.10 2013</p> |                |                     |

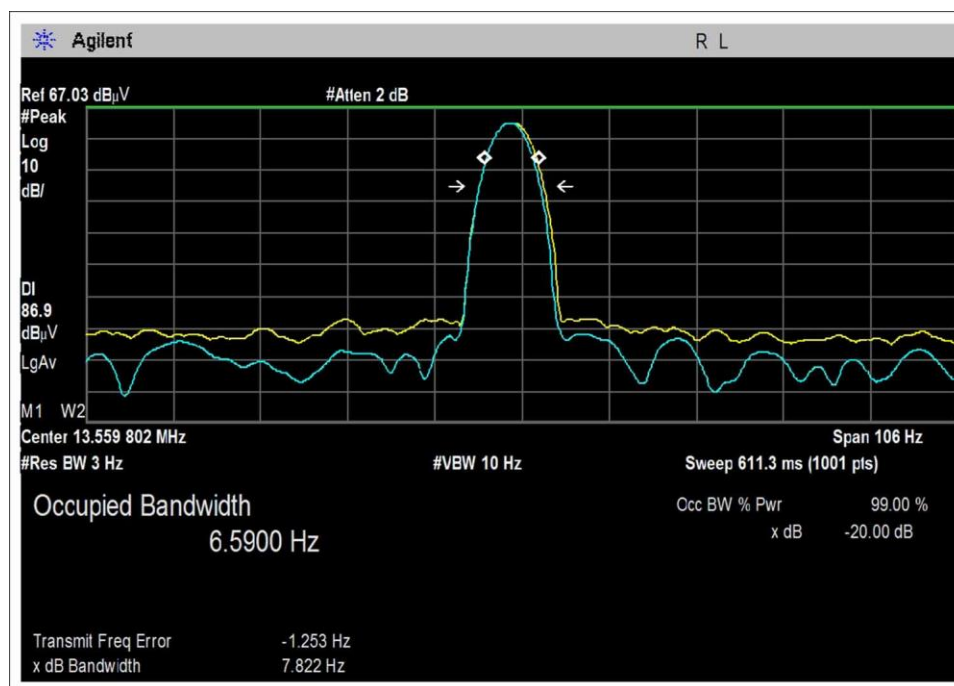
| Environmental Conditions |    |                        |    |
|--------------------------|----|------------------------|----|
| 3/15/2016                |    |                        |    |
| Temperature (°C)         | 10 | Relative Humidity (%): | 85 |
| 3/17/2016                |    |                        |    |
| Temperature (°C)         | 11 | Relative Humidity (%): | 83 |
| 3/18/2016                |    |                        |    |
| Temperature (°C)         | 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  |

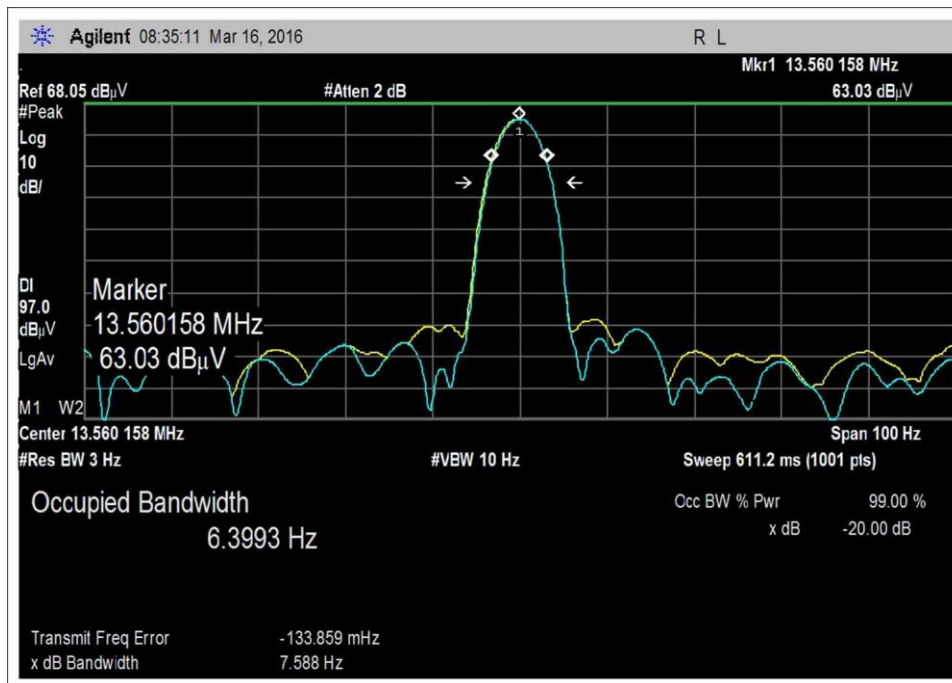
| Test Data Summary    |              |                                          |                |             |         |
|----------------------|--------------|------------------------------------------|----------------|-------------|---------|
| Frequency (MHz)      | Antenna Port | Modulation                               | 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

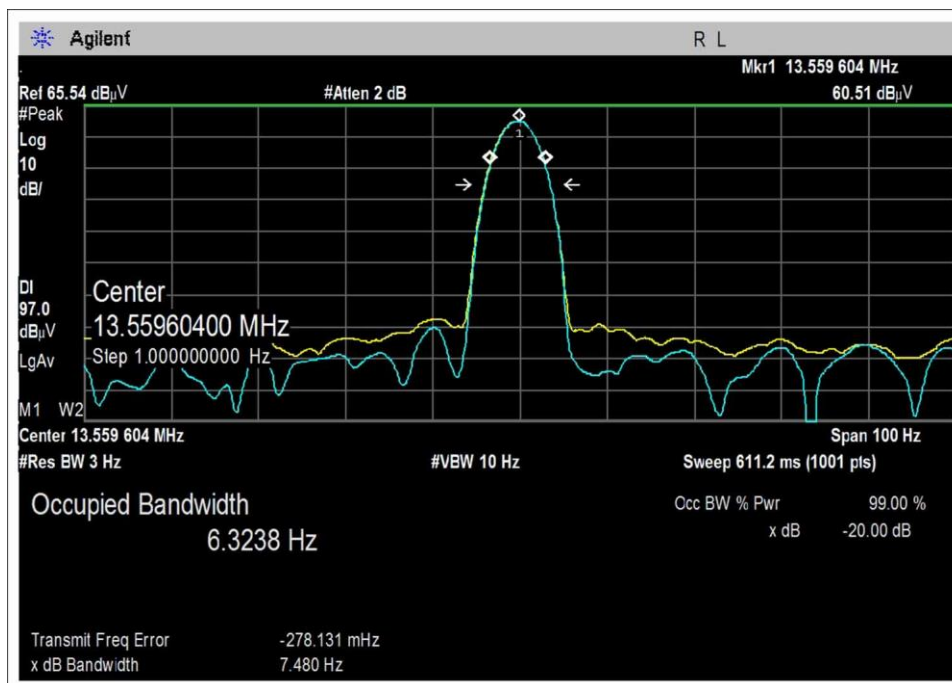
## Plots



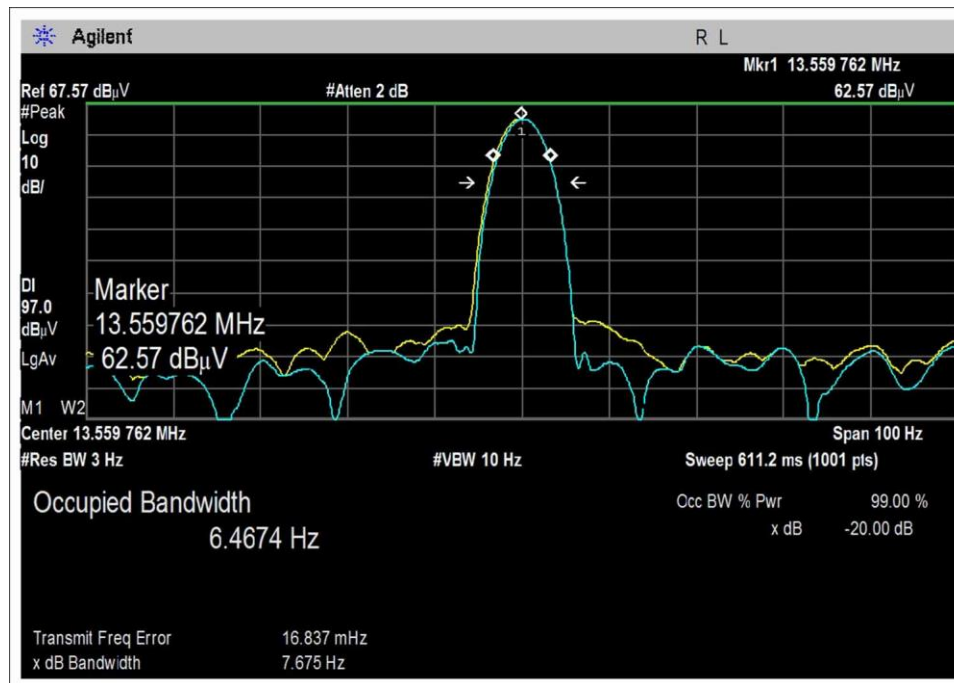
Configuration 2



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 <sub>Minimum</sub> (dBuV/m) | V <sub>Nominal</sub> (dBuV/m) | V <sub>Maximum</sub> (dBuV/m) | Max Deviation from V <sub>Nominal</sub> (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 <sub>Minimum</sub> (dBuV/m) | V <sub>Nominal</sub> (dBuV/m) | V <sub>Maximum</sub> (dBuV/m) | Max Deviation from V <sub>Nominal</sub> (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 <sub>Minimum</sub> (dBuV/m) | V <sub>Nominal</sub> (dBuV/m) | V <sub>Maximum</sub> (dBuV/m) | Max Deviation from V <sub>Nominal</sub> (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 <sub>Minimum</sub> (dBuV/m) | V <sub>Nominal</sub> (dBuV/m) | V <sub>Maximum</sub> (dBuV/m) | Max Deviation from V <sub>Nominal</sub> (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                                       |

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

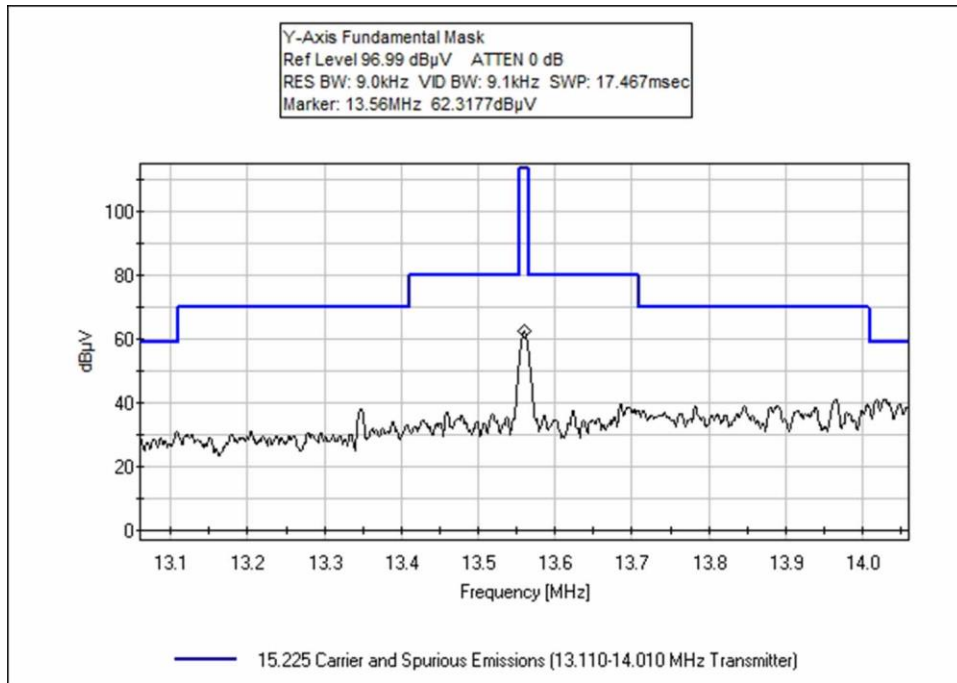
**Parameter Definitions:**

Measurements performed at input voltage  $V_{\text{Nominal}} \pm 15\%$ .

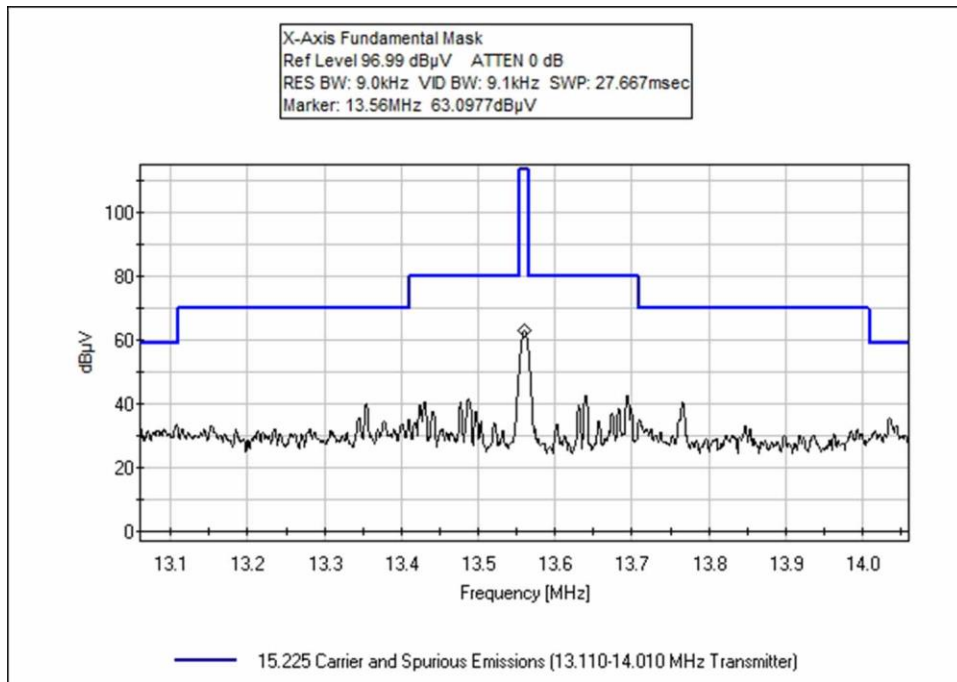
| Parameter              | Value    |
|------------------------|----------|
| $V_{\text{Nominal}}$ : | 12.0 VAC |
| $V_{\text{Minimum}}$ : | 10.2 VAC |
| $V_{\text{Maximum}}$ : | 13.8 VAC |

| Test Data Summary – Radiated Field Strength Measurement |                                          |                    |                         |                      |         |
|---------------------------------------------------------|------------------------------------------|--------------------|-------------------------|----------------------|---------|
| Frequency (MHz)                                         | Modulation                               | Ant. Type          | Measured (dBuV/m @ 30m) | Limit (dBuV/m @ 30m) | Results |
| <b>Configuration 2</b>                                  |                                          |                    |                         |                      |         |
| 13.560 (Parallel)                                       | ASK Modulation with an 847kHz subcarrier | Integral PCB Trace | 32.8                    | $\leq 84$            | Pass    |
| 13.560 (Perpendicular)                                  | ASK Modulation with an 847kHz subcarrier | Integral PCB Trace | 30.0                    | $\leq 84$            | Pass    |
| <b>Configuration 3</b>                                  |                                          |                    |                         |                      |         |
| 13.560 (Parallel)                                       | ASK Modulation with an 847kHz subcarrier | Integral PCB Trace | 33.8                    | $\leq 84$            | Pass    |
| 13.560 (Perpendicular)                                  | ASK Modulation with an 847kHz subcarrier | Integral PCB Trace | 30.3                    | $\leq 84$            | Pass    |
| <b>Configuration 6</b>                                  |                                          |                    |                         |                      |         |
| 13.560 (Parallel)                                       | ASK Modulation with an 847kHz subcarrier | Integral PCB Trace | 32.6                    | $\leq 84$            | Pass    |
| 13.560 (Perpendicular)                                  | ASK Modulation with an 847kHz subcarrier | Integral PCB Trace | 29.0                    | $\leq 84$            | Pass    |
| <b>Configuration 7</b>                                  |                                          |                    |                         |                      |         |
| 13.560 (Parallel)                                       | ASK Modulation with an 847kHz subcarrier | Integral PCB Trace | 33.4                    | $\leq 84$            | Pass    |
| 13.560 (Perpendicular)                                  | ASK Modulation with an 847kHz subcarrier | Integral PCB Trace | 31.4                    | $\leq 84$            | Pass    |

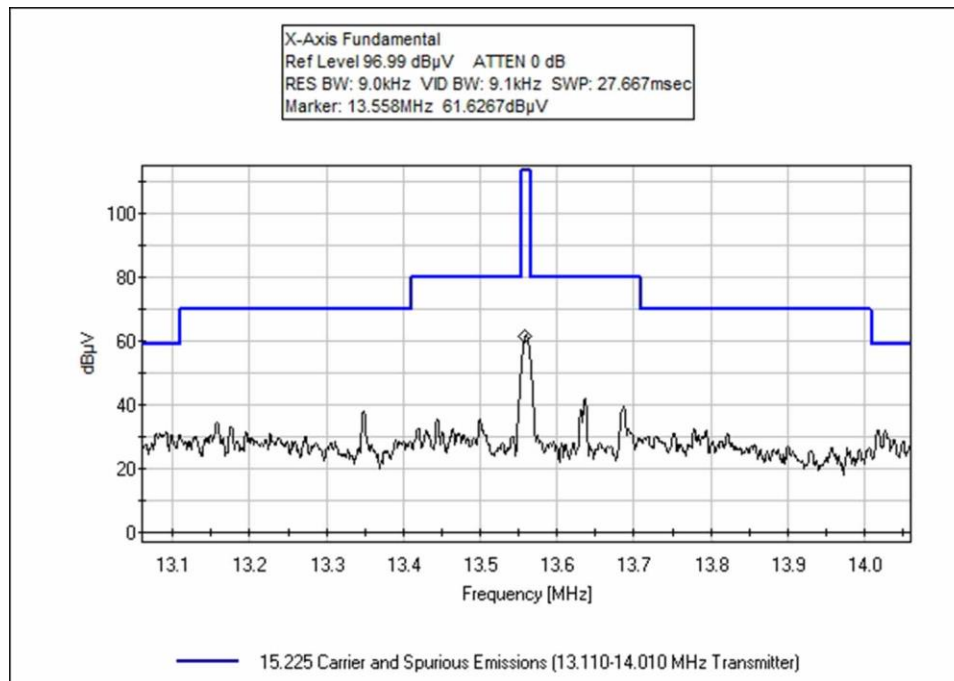
## Emissions Mask Data



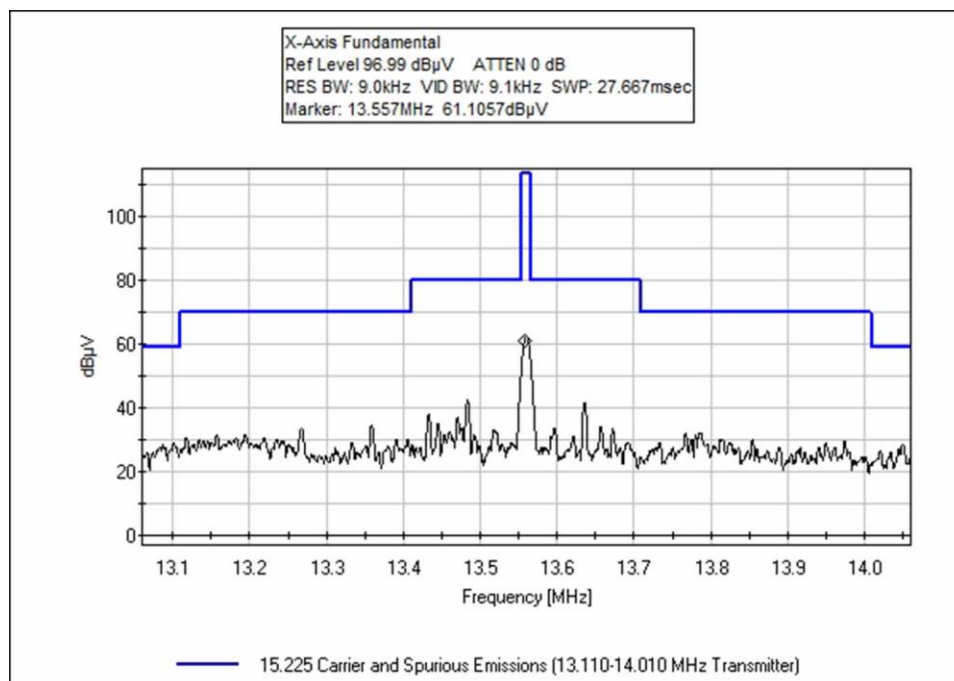
Configuration 2



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 |              |         |     |

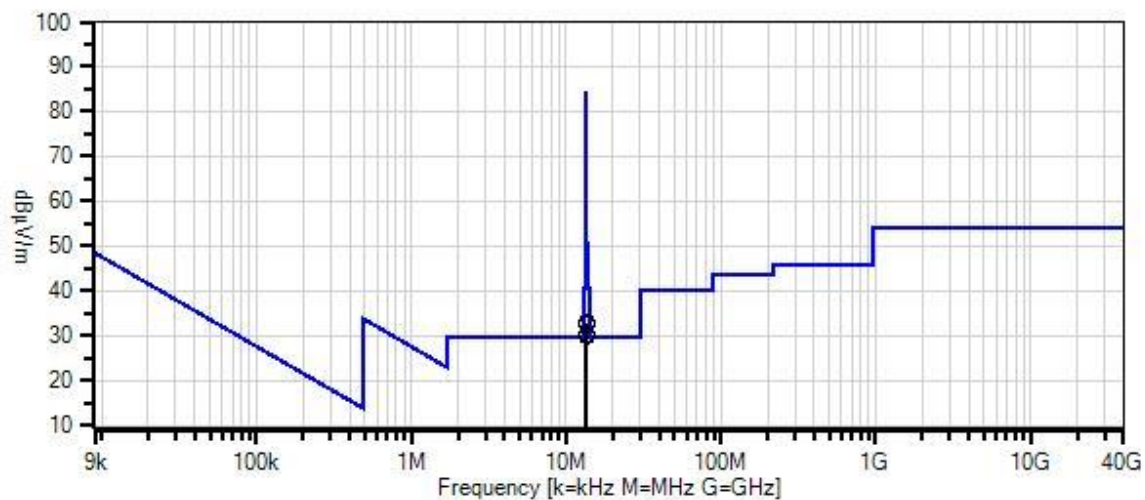
### Support Equipment:

| Device          | Manufacturer | Model # | S/N |
|-----------------|--------------|---------|-----|
| Configuration 2 |              |         |     |

### Test Conditions / Notes:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Radiated Emissions Fundamental Measurements</p> <p>Temperature: 10°C<br/>         Humidity: 85%<br/>         Atmospheric Pressure: 97 kPa</p> <p>Method: ANSI C63.10 2013</p> <p>13.56MHz Only, Measured in Y-Axis<br/>         Antenna Type: Integral<br/>         Modulation: ASK Modulation with an 847kHz subcarrier</p> <p>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.</p> <p>The EUT is setup on an 80cm foam block.<br/>         The EUT has been programmed to continuously transmit the RFID signal at 13.56MHz.</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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
  - 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:**

Reading listed by margin.

Test Distance: 3 Meters

| # | Freq<br>MHz | Rdng<br>dB $\mu$ V | T1<br>dB | T2<br>dB | T3<br>dB | dB | Dist<br>Table | Corr<br>dB $\mu$ V/m | Spec<br>dB $\mu$ V/m         | Margin<br>dB | Polar<br>Ant |
|---|-------------|--------------------|----------|----------|----------|----|---------------|----------------------|------------------------------|--------------|--------------|
| 1 | 13.560M     | 62.3               | +0.7     | +0.1     | +9.7     |    | -40.0         | 32.8                 | 84.0<br>Y-Axis               | -51.2        | Paral        |
| 2 | 13.560M     | 62.3               | +0.7     | +0.1     | +9.7     |    | -40.0         | 32.8                 | 84.0<br>X-axis               | -51.2        | Paral        |
| 3 | 13.560M     | 62.2               | +0.7     | +0.1     | +9.7     |    | -40.0         | 32.7                 | 84.0<br>Y-Axis @<br>13.8VDC  | -51.3        | Paral        |
| 4 | 13.560M     | 62.2               | +0.7     | +0.1     | +9.7     |    | -40.0         | 32.7                 | 84.0<br>Y-Axis @ 10.2<br>VDC | -51.3        | Paral        |
| 5 | 13.560M     | 60.0               | +0.7     | +0.1     | +9.7     |    | -40.0         | 30.5                 | 84.0<br>Y-Axis @<br>13.8VDC  | -53.5        | Perpe        |
| 6 | 13.560M     | 59.9               | +0.7     | +0.1     | +9.7     |    | -40.0         | 30.4                 | 84.0<br>Y-Axis @ 10.2<br>VDC | -53.6        | Perpe        |
| 7 | 13.559M     | 59.5               | +0.7     | +0.1     | +9.7     |    | -40.0         | 30.0                 | 84.0<br>Y-Axis               | -54.0        | Perpe        |
| 8 | 13.560M     | 59.3               | +0.7     | +0.1     | +9.7     |    | -40.0         | 29.8                 | 84.0<br>X-Axis               | -54.2        | 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: 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 |              |         |     |

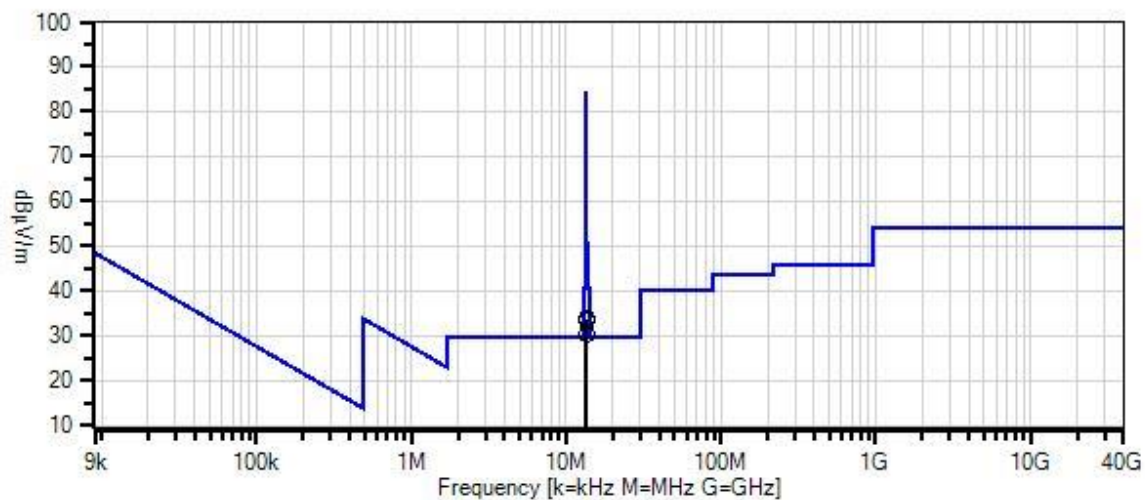
***Support Equipment:***

| Device          | Manufacturer | Model # | S/N |
|-----------------|--------------|---------|-----|
| Configuration 3 |              |         |     |

***Test Conditions / Notes:***

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Radiated Emissions Fundamental Measurements</p> <p>Temperature: 11°C<br/>         Humidity: 83%<br/>         Atmospheric Pressure: 97.4 kPa</p> <p>Method: ANSI C63.10 2013</p> <p>Set to 13.56MHz, Measured in X-Axis<br/>         Antenna Type: Integral<br/>         Modulation: ASK Modulation with an 847kHz subcarrier</p> <p>The EUT is powered by a DC power supply at 12VDC. Max power was measured in two orthogonalities.<br/>         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.</p> <p>The EUT is setup on an 80cm foam block.<br/>         The EUT has been programmed to continuously transmit the RFID signal at 13.56MHz.</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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
- 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:**

Reading listed by margin.

Test Distance: 3 Meters

| # | Freq<br>MHz | Rdng<br>dBμV | T1<br>dB | T2<br>dB | T3<br>dB |  | Dist<br>Table | Corr<br>dBμV/m | Spec<br>dBμV/m               | Margin<br>dB | Polar<br>Ant |
|---|-------------|--------------|----------|----------|----------|--|---------------|----------------|------------------------------|--------------|--------------|
| 1 | 13.560M     | 63.3         | +0.7     | +0.1     | +9.7     |  | -40.0         | 33.8           | 84.0<br>X-Axis @ 13.8<br>VDC | -50.2        | Paral        |
| 2 | 13.560M     | 63.3         | +0.7     | +0.1     | +9.7     |  | -40.0         | 33.8           | 84.0<br>X-Axis               | -50.2        | Paral        |
| 3 | 13.560M     | 63.2         | +0.7     | +0.1     | +9.7     |  | -40.0         | 33.7           | 84.0<br>X-Axis @ 10.2<br>VDC | -50.3        | Paral        |
| 4 | 13.560M     | 62.7         | +0.7     | +0.1     | +9.7     |  | -40.0         | 33.2           | 84.0<br>Y-Axis               | -50.8        | Paral        |
| 5 | 13.559M     | 60.0         | +0.7     | +0.1     | +9.7     |  | -40.0         | 30.5           | 84.0<br>Y-Axis               | -53.5        | Perpe        |
| 6 | 13.560M     | 59.8         | +0.7     | +0.1     | +9.7     |  | -40.0         | 30.3           | 84.0<br>X-Axis               | -53.7        | Perpe        |
| 7 | 13.560M     | 59.7         | +0.7     | +0.1     | +9.7     |  | -40.0         | 30.2           | 84.0<br>X-Axis @<br>13.8VDC  | -53.8        | Perpe        |
| 8 | 13.560M     | 59.7         | +0.7     | +0.1     | +9.7     |  | -40.0         | 30.2           | 84.0<br>X-Axis @ 10.2<br>VDC | -53.8        | 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: 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 |              |         |     |

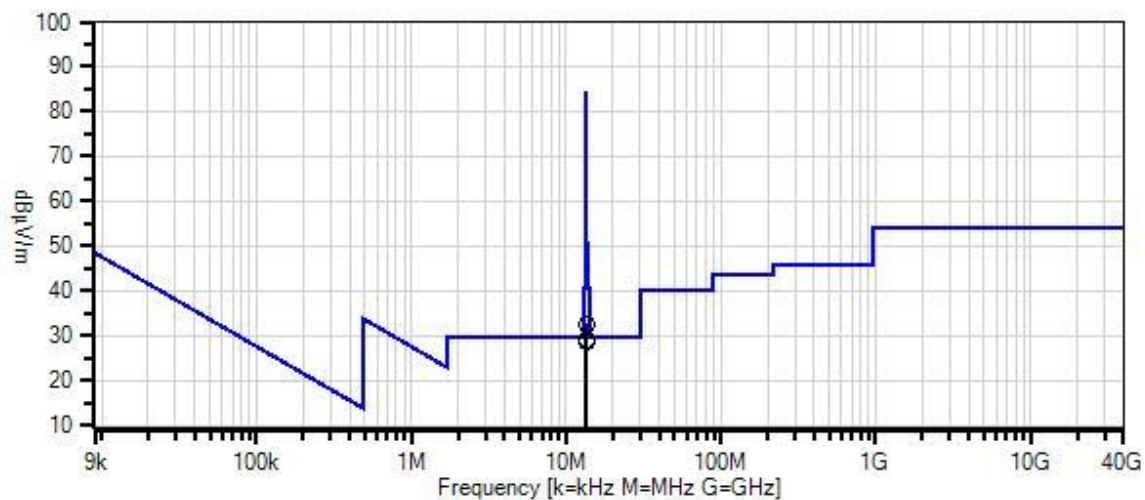
***Support Equipment:***

| Device          | Manufacturer | Model # | S/N |
|-----------------|--------------|---------|-----|
| Configuration 6 |              |         |     |

***Test Conditions / Notes:***

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Radiated Emissions Fundamental Measurements</p> <p>Temperature: 11°C<br/>         Humidity: 85%<br/>         Atmospheric Pressure: 96.8 kPa</p> <p>Method: ANSI C63.10 (2013)</p> <p>13.56MHz with BLE, Measured in X-Axis<br/>         Antenna Type: Integral<br/>         Modulation: ASK Modulation with an 847kHz subcarrier</p> <p>The EUT is powered by a DC power supply at 12VDC. Max power was measured in two orthogonalities.<br/>         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.</p> <p>The EUT is setup on an 80cm foam block.<br/>         The EUT has been programmed to continuously transmit the RFID signal at 13.56MHz.</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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
  - 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:**

Reading listed by margin.

Test Distance: 3 Meters

| # | Freq<br>MHz | Rdng<br>dB $\mu$ V | T1<br>dB | T2<br>dB | T3<br>dB | dB | Dist<br>Table | Corr<br>dB $\mu$ V/m | Spec<br>dB $\mu$ V/m         | Margin<br>dB | Polar<br>Ant |
|---|-------------|--------------------|----------|----------|----------|----|---------------|----------------------|------------------------------|--------------|--------------|
| 1 | 13.560M     | 62.2               | +0.7     | +0.1     | +9.7     |    | -40.0         | 32.7                 | 84.0<br>X-Axis @<br>10.2VDC  | -51.3        | Paral        |
| 2 | 13.560M     | 62.2               | +0.7     | +0.1     | +9.7     |    | -40.0         | 32.7                 | 84.0<br>X-Axis @<br>13.8VDC  | -51.3        | Paral        |
| 3 | 13.560M     | 62.1               | +0.7     | +0.1     | +9.7     |    | -40.0         | 32.6                 | 84.0<br>X-Axis               | -51.4        | Paral        |
| 4 | 13.560M     | 61.8               | +0.7     | +0.1     | +9.7     |    | -40.0         | 32.3                 | 84.0<br>Y-Axis               | -51.7        | Paral        |
| 5 | 13.560M     | 58.5               | +0.7     | +0.1     | +9.7     |    | -40.0         | 29.0                 | 84.0<br>X-Axis               | -55.0        | Perpe        |
| 6 | 13.560M     | 58.5               | +0.7     | +0.1     | +9.7     |    | -40.0         | 29.0                 | 84.0<br>X-Axis @ 10.2<br>VDC | -55.0        | Perpe        |
| 7 | 13.560M     | 58.4               | +0.7     | +0.1     | +9.7     |    | -40.0         | 28.9                 | 84.0<br>Y-Axis               | -55.1        | Perpe        |
| 8 | 13.559M     | 58.3               | +0.7     | +0.1     | +9.7     |    | -40.0         | 28.8                 | 84.0<br>X-Axis @<br>13.8VDC  | -55.2        | 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: 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 |              |         |     |

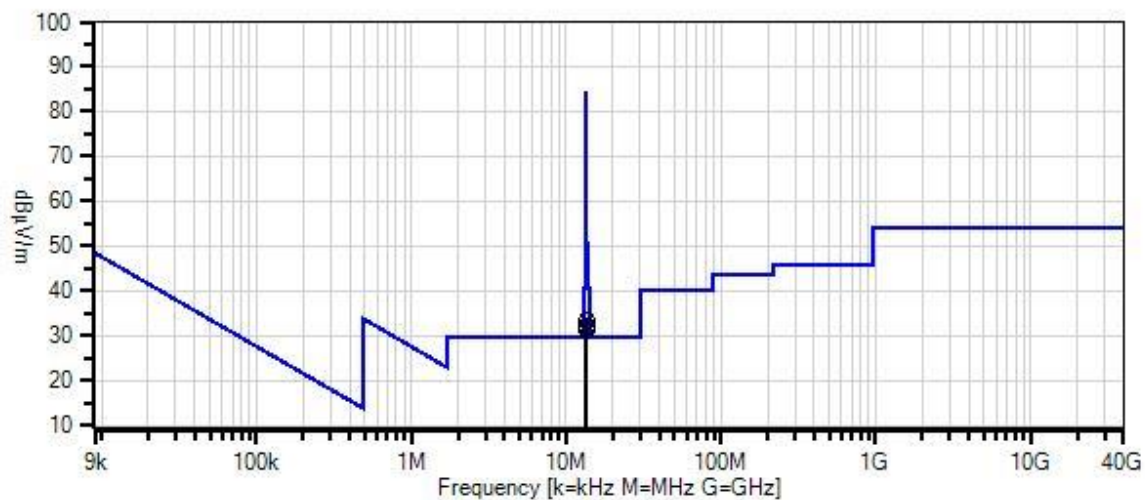
**Support Equipment:**

| Device          | Manufacturer | Model # | S/N |
|-----------------|--------------|---------|-----|
| Configuration 7 |              |         |     |

**Test Conditions / Notes:**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Radiated Emissions Fundamental Measurements</p> <p>Temperature: 11°C<br/>         Humidity: 85%<br/>         Atmospheric Pressure: 96.8 kPa</p> <p>Method: ANSI C63.10 (2013)</p> <p>Set to 13.56MHz with BLE, Measured in X-Axis<br/>         Antenna Type: Integral<br/>         Modulation: ASK Modulation with an 847kHz subcarrier</p> <p>The EUT is powered by a DC power supply at 12VDC. Max power was measured in two orthogonalities.<br/>         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.</p> <p>The EUT is setup on an 80cm foam block.<br/>         The EUT has been programmed to continuously transmit the RFID signal at 13.56MHz.</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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
- 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:**

Reading listed by margin.

Test Distance: 3 Meters

| # | Freq<br>MHz | Rdng<br>dBμV | T1<br>dB | T2<br>dB | T3<br>dB |  | Dist<br>Table | Corr<br>dBμV/m | Spec<br>dBμV/m       | Margin<br>dB | Polar<br>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<br>VDC |              |              |
| 4 | 13.560M     | 62.7         | +0.7     | +0.1     | +9.7     |  | -40.0         | 33.2           | 84.0                 | -50.8        | Paral        |
|   |             |              |          |          |          |  |               |                | X-Axis @<br>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 @<br>13.8VDC  |              |              |
| 8 | 13.560M     | 60.7         | +0.7     | +0.1     | +9.7     |  | -40.0         | 31.2           | 84.0                 | -52.8        | Perpe        |
|   |             |              |          |          |          |  |               |                | X-Axis @<br>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 tested simultaneously within the temperature chamber. The manufacturer declares that Configurations 6 and 7 are worse case and testing performed on these would satisfy the testing for Configurations 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

| Frequency Stability Test Data Summary - Configuration 6 |                      |                 |               |           |         |
|---------------------------------------------------------|----------------------|-----------------|---------------|-----------|---------|
| Temperature (°C)                                        | Voltage              | Frequency (MHz) | Deviation (%) | Limit (%) | Results |
| -20                                                     | V <sub>Nominal</sub> | 13.5598         | -0.00147      | ±0.01     | Pass    |
| -10                                                     | V <sub>Nominal</sub> | 13.5598         | -0.00147      | ±0.01     |         |
| 0                                                       | V <sub>Nominal</sub> | 13.5597         | -0.00221      | ±0.01     |         |
| 10                                                      | V <sub>Nominal</sub> | 13.5597         | -0.00221      | ±0.01     |         |
| 20                                                      | V <sub>Minimum</sub> | 13.5597         | -0.00221      | ±0.01     |         |
| 20                                                      | V <sub>Nominal</sub> | 13.5596         | -0.00295      | ±0.01     |         |
| 20                                                      | V <sub>Maximum</sub> | 13.5596         | -0.00295      | ±0.01     |         |
| 30                                                      | V <sub>Nominal</sub> | 13.5596         | -0.00295      | ±0.01     |         |
| 40                                                      | V <sub>Nominal</sub> | 13.5596         | -0.00295      | ±0.01     |         |
| 50                                                      | V <sub>Nominal</sub> | 13.560          | 0.00000       | ±0.01     |         |
| Nominal Frequency:                                      |                      | 13.560000       |               |           |         |

| Frequency Stability Test Data Summary - Configuration 7 |                      |                 |               |           |         |
|---------------------------------------------------------|----------------------|-----------------|---------------|-----------|---------|
| Temperature (°C)                                        | Voltage              | Frequency (MHz) | Deviation (%) | Limit (%) | Results |
| -20                                                     | V <sub>Nominal</sub> | 13.5597         | -0.00221      | ±0.01     | Pass    |
| -10                                                     | V <sub>Nominal</sub> | 13.5600         | 0.00000       | ±0.01     |         |
| 0                                                       | V <sub>Nominal</sub> | 13.5597         | -0.00221      | ±0.01     |         |
| 10                                                      | V <sub>Nominal</sub> | 13.5597         | -0.00221      | ±0.01     |         |
| 20                                                      | V <sub>Minimum</sub> | 13.5595         | -0.00369      | ±0.01     |         |
| 20                                                      | V <sub>Nominal</sub> | 13.5595         | -0.00369      | ±0.01     |         |
| 20                                                      | V <sub>Maximum</sub> | 13.5594         | -0.00442      | ±0.01     |         |
| 30                                                      | V <sub>Nominal</sub> | 13.5595         | -0.00369      | ±0.01     |         |
| 40                                                      | V <sub>Nominal</sub> | 13.56           | 0.00000       | ±0.01     |         |
| 50                                                      | V <sub>Nominal</sub> | 13.560          | 0.00000       | ±0.01     |         |
| Nominal Frequency:                                      |                      | 13.560000       |               |           |         |

### **Parameter Definitions:**

Measurements performed at input voltage V<sub>Nominal</sub> ± 15%.

| Parameter              | Value    |
|------------------------|----------|
| V <sub>Nominal</sub> : | 12 VDC   |
| V <sub>Minimum</sub> : | 10.2 VDC |
| V <sub>Maximum</sub> : | 13.8 VDC |

**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: **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: 10:52:30  
 Tested By: Benny Lovan Sequence#: 4  
 Software: EMITest 5.03.02

#### Equipment Tested:

| Device           | Manufacturer | Model # | S/N |
|------------------|--------------|---------|-----|
| Configuration 10 |              |         |     |

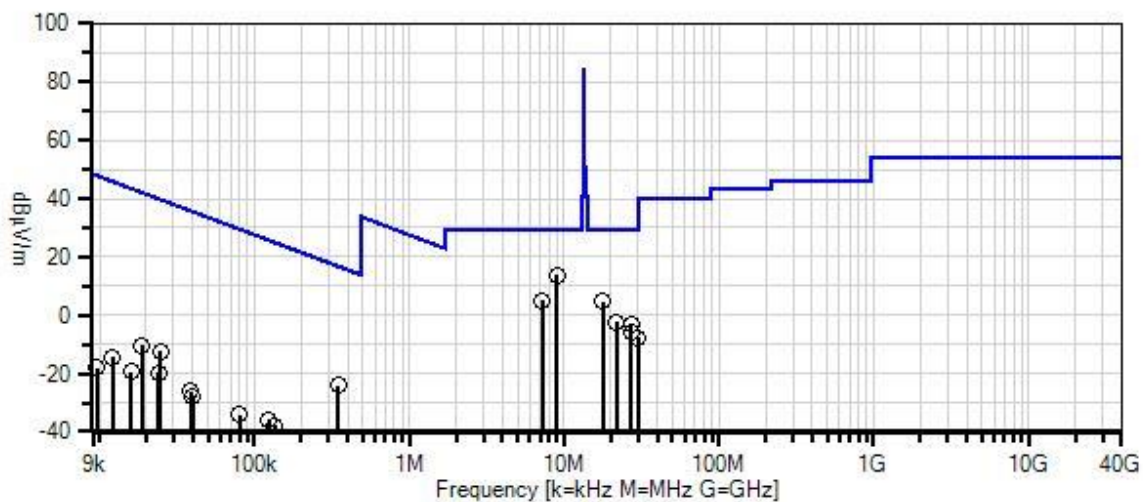
#### Support Equipment:

| 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

WaveLynx Technologies Corporation W/O#: 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
  - 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:**

Reading listed by margin.

Test Distance: 3 Meters

| #  | Freq<br>MHz | Rdng<br>dBμV | T1<br>dB | T2<br>dB | T3<br>dB |  | Dist<br>Table | Corr<br>dBμV/m | Spec<br>dBμV/m | Margin<br>dB | Polar<br>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 |              |         |     |

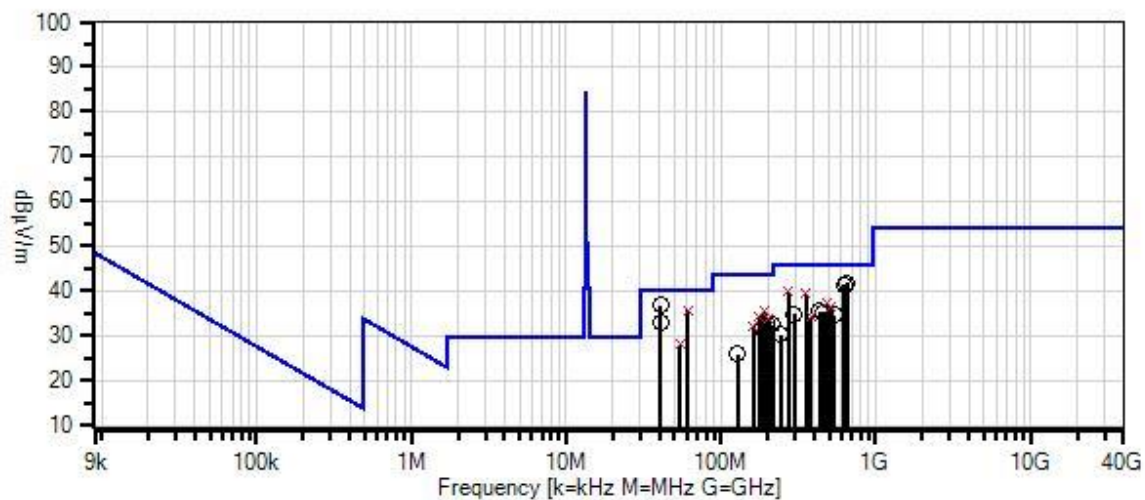
***Support Equipment:***

| Device           | Manufacturer | Model # | S/N |
|------------------|--------------|---------|-----|
| Configuration 10 |              |         |     |

***Test Conditions / Notes:***

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Radiated Emissions Spurious Measurements 30MHz - 1GHz</p> <p>Temperature: 12.2°C<br/>         Humidity: 64%<br/>         Atmospheric Pressure: 98.5 kPa</p> <p>Method: ANSI C63.10 2013</p> <p>Highest Generated Frequency: 27.12 MHz<br/>         Both EUTs are running at 13.56MHz.</p> <p>The EUT is powered by a DC power supply at 12VDC.<br/>         Spurious was measured on two EUTs at one time.<br/>         Configuration 10 is made up of Configuration 2 and Configuration 3 (Testing at the same time).<br/>         Configuration 2 is in Y-axis and Configuration 3 is in the X-axis.</p> <p>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.</p> <p>The manufacturer declares it will only ever be wall mounted in an upright (Y-axis) or sideways (X-axis) orientation.</p> <p>The EUT is setup on an 0.80 meter foam block.<br/>         The EUT is setup to continuously transmit at 13.56MHz</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

WaveLynx Technologies Corporation W/O#: 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
  - 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 | 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    |

**Measurement Data:**

Reading listed by margin.

Test Distance: 3 Meters

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

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

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 |              |         |     |

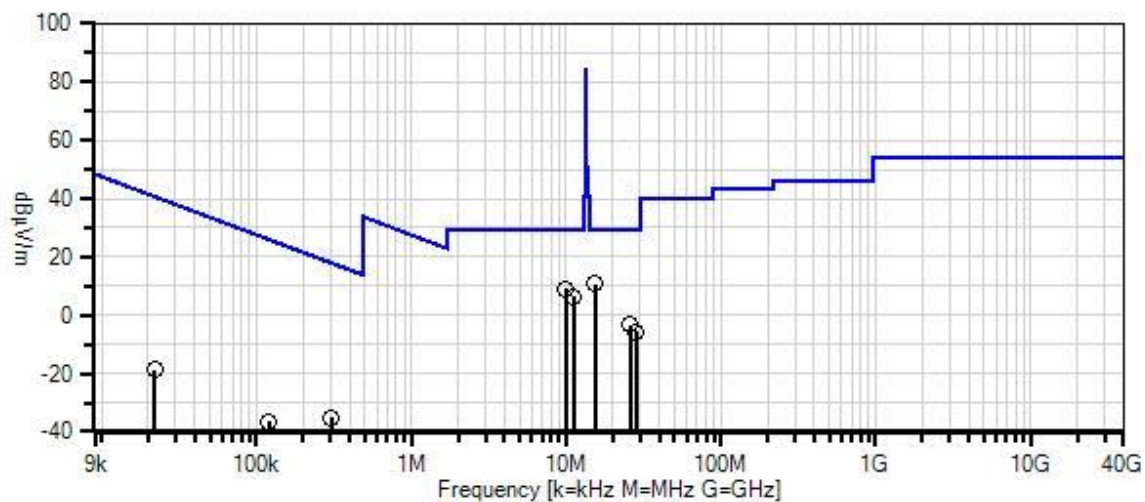
***Support Equipment:***

| Device           | Manufacturer | Model # | S/N |
|------------------|--------------|---------|-----|
| Configuration 11 |              |         |     |

***Test Conditions / Notes:***

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Radiated Emissions Spurious Measurements 9kHz – 30MHz</p> <p>Temperature: 10°C<br/>         Humidity: 71%<br/>         Atmospheric Pressure: 98.0 kPa</p> <p>Method: ANSI C63.10 2013</p> <p>Highest Generated Frequency: 27.12 MHz<br/>         Both EUTs are running at 13.56MHz.</p> <p>The EUT is powered by a DC power supply at 12VDC.<br/>         Spurious was measured on two EUTs at one time.<br/>         Configuration 11 is made up of Configuration 6 and Configuration 7 (Testing at the same time).<br/>         Configuration 6 is in X-axis and Configuration 7 is in the X-axis.</p> <p>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.</p> <p>The manufacturer declares it will only ever be wall mounted in an upright (Y-axis) or sideways (X-axis) orientation.</p> <p>The EUT is setup on an 0.80 meter foam block.<br/>         The EUT is setup to continuously transmit at 13.56MHz</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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
  - 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:**

Reading listed by margin.

Test Distance: 3 Meters

| # | Freq<br>MHz | Rdng<br>dBμV | T1<br>dB | T2<br>dB | T3<br>dB |  | Dist<br>Table | Corr<br>dBμV/m | Spec<br>dBμV/m | Margin<br>dB | Polar<br>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 |              |         |     |

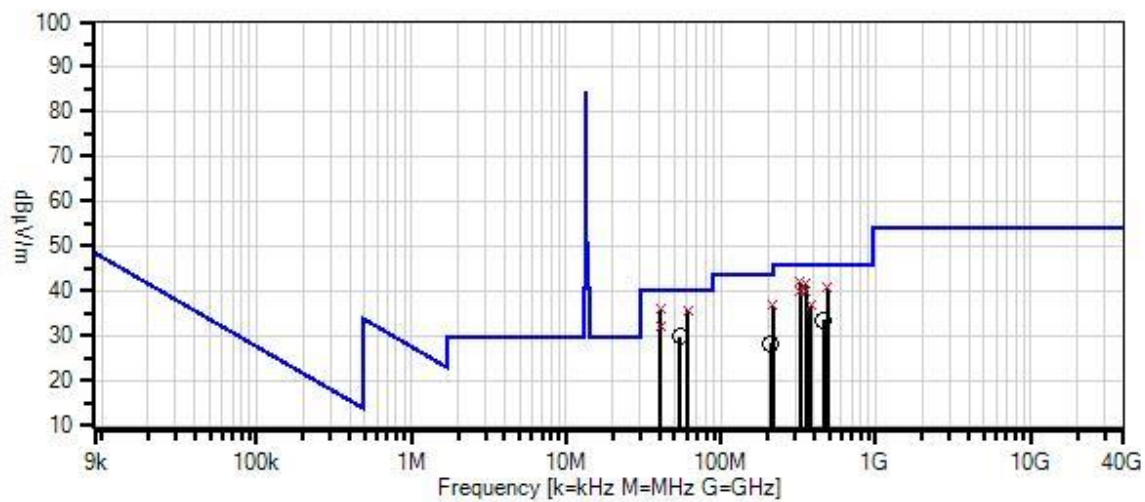
**Support Equipment:**

| Device           | Manufacturer | Model # | S/N |
|------------------|--------------|---------|-----|
| Configuration 11 |              |         |     |

**Test Conditions / Notes:**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Radiated Emissions Spurious Measurements 30MHz - 1GHz</p> <p>Temperature: 12.2°C<br/>         Humidity: 64%<br/>         Atmospheric Pressure: 98.5 kPa</p> <p>Method: ANSI C63.10 2013</p> <p>Highest Generated Frequency: 27.12 MHz<br/>         Both EUTs are running at 13.56MHz.</p> <p>The EUT is powered by a DC power supply at 12VDC.<br/>         Spurious was measured on two EUTs at one time.<br/>         Configuration 11 is made up of Configuration 6 and Configuration 7 (Testing at the same time).<br/>         Configuration 6 is in X-axis and Configuration 7 is in the X axis.</p> <p>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.</p> <p>The manufacturer declares it will only ever be wall mounted in an upright (Y-axis) or sideways (X-axis) orientation.</p> <p>The EUT is setup on an 0.80 meter foam block.<br/>         The EUT is setup to continuously transmit at 13.56MHz</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

WaveLynx Technologies Corporation W/O#: 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
  - 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 | 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    |

**Measurement Data:**

Reading listed by margin.

Test Distance: 3 Meters

| #  | Freq     | Rdng       | T1<br>T5 | T2   | T3   | T4   | Dist  | Corr         | Spec         | Margin | Polar |
|----|----------|------------|----------|------|------|------|-------|--------------|--------------|--------|-------|
|    | MHz      | dB $\mu$ V | dB       | dB   | dB   | dB   | Table | dB $\mu$ V/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    |      |      |      |       |              |              |        |       |
| ^  | 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 |      |      |      |      |      |      |       |       |
| ^  | 40.665M  | 51.0 | -28.1 | +1.2 | +0.1 | +0.2 | +0.0 | 38.5 | 40.0 | -1.5  | Vert  |
|    |          |      | +14.1 |      |      |      |      |      |      |       |       |
| ^  | 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 |      |      |      |      |      |      |       |       |
| ^  | 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

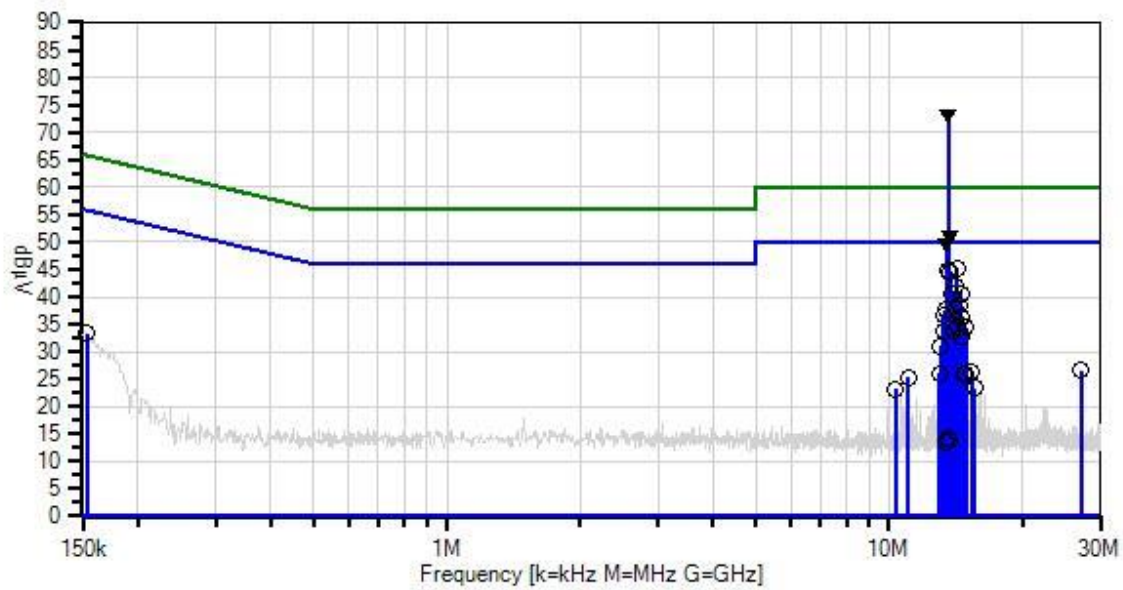
Frequency Range of Interest:  
 0.150-30MHz  
 RBW = 9kHz; VBW > 9kHz

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.

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



**Test Equipment:**

| 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 (Return) (dB) | 8028-50-TS-24-BNC       | 1/4/2016         | 1/4/2017     |
| T2 | AN01248  | 50uH LISN-Line 2 (Line) (dB)   | 8028-50-TS-24-BNC       | 1/4/2016         | 1/4/2017     |
| T3 | AN02609  | High Pass Filter               | HE9615-150K-50-720B     | 2/18/2016        | 2/18/2018    |
| T4 | ANP06884 | Cable                          | LMR195-FR-4             | 10/27/2015       | 10/27/2017   |
| T5 | ANMD INT | Cable                          | Underground cables only | 3/17/2016        | 3/17/2018    |
| 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.

Test Lead: LINE

| #  | Freq    | Rdng | T1<br>T5      | T2<br>T6     | T3<br>T7     | T4   | Dist  | Corr | Spec        | Margin | Polar |
|----|---------|------|---------------|--------------|--------------|------|-------|------|-------------|--------|-------|
|    | MHz     | dBμV | dB            | dB           | dB           | dB   | Table | dBμV | dBμV        | dB     | Ant   |
| 1  | 13.572M | 62.2 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0  | 73.2 | 50.0        | +23.2  | LINE  |
|    | Ambient |      |               |              |              |      |       |      | Fundamental |        |       |
| 2  | 13.707M | 40.4 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0  | 51.4 | 50.0        | +1.4   | LINE  |
|    | Ambient |      |               |              |              |      |       |      | Fundamental |        |       |
| 3  | 13.482M | 38.9 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0  | 49.9 | 50.0        | -0.1   | LINE  |
|    | Ambient |      |               |              |              |      |       |      | Fundamental |        |       |
| 4  | 14.212M | 34.3 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0  | 45.3 | 50.0        | -4.7   | LINE  |
| 5  | 13.635M | 33.8 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0  | 44.8 | 50.0        | -5.2   | LINE  |
| 6  | 13.779M | 33.5 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0  | 44.5 | 50.0        | -5.5   | LINE  |
| 7  | 14.140M | 30.9 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0  | 41.9 | 50.0        | -8.1   | LINE  |
| 8  | 13.852M | 29.7 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0  | 40.7 | 50.0        | -9.3   | LINE  |
| 9  | 14.501M | 29.6 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0  | 40.6 | 50.0        | -9.4   | LINE  |
| 10 | 14.429M | 27.3 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0  | 38.3 | 50.0        | -11.7  | LINE  |
| 11 | 13.409M | 26.6 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0  | 37.6 | 50.0        | -12.4  | LINE  |
| 12 | 14.068M | 26.6 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0  | 37.6 | 50.0        | -12.4  | LINE  |
| 13 | 13.924M | 25.8 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0  | 36.8 | 50.0        | -13.2  | LINE  |
| 14 | 13.265M | 25.5 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0  | 36.5 | 50.0        | -13.5  | LINE  |
| 15 | 14.573M | 25.4 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0  | 36.4 | 50.0        | -13.6  | LINE  |
| 16 | 14.934M | 23.5 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0  | 34.5 | 50.0        | -15.5  | LINE  |

|    |          |      |               |              |              |      |      |      |                                                           |       |      |
|----|----------|------|---------------|--------------|--------------|------|------|------|-----------------------------------------------------------|-------|------|
| 17 | 14.285M  | 23.4 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 34.4 | 50.0                                                      | -15.6 | LINE |
| 18 | 13.996M  | 22.9 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 33.9 | 50.0                                                      | -16.1 | LINE |
| 19 | 13.337M  | 22.7 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 33.7 | 50.0                                                      | -16.3 | LINE |
| 20 | 14.646M  | 21.7 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 32.7 | 50.0                                                      | -17.3 | LINE |
| 21 | 13.049M  | 20.1 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 31.1 | 50.0                                                      | -18.9 | LINE |
| 22 | 153.637k | 21.6 | +10.1<br>+0.0 | +0.1<br>+0.0 | +1.5<br>+0.0 | +0.0 | +0.0 | 33.3 | 55.8                                                      | -22.5 | LINE |
| 23 | 27.124M  | 15.6 | +10.1<br>+0.2 | +0.1<br>+0.0 | +0.3<br>+0.2 | +0.1 | +0.0 | 26.6 | 50.0                                                      | -23.4 | LINE |
| 24 | 15.376M  | 15.3 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 26.4 | 50.0                                                      | -23.6 | LINE |
| 25 | 12.976M  | 15.0 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 26.0 | 50.0                                                      | -24.0 | LINE |
| 26 | 14.718M  | 15.0 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 26.0 | 50.0                                                      | -24.0 | LINE |
| 27 | 14.862M  | 15.0 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 26.0 | 50.0                                                      | -24.0 | LINE |
| 28 | 11.046M  | 14.4 | +10.1<br>+0.2 | +0.2<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 25.3 | 50.0                                                      | -24.7 | LINE |
| 29 | 15.593M  | 12.3 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 23.4 | 50.0                                                      | -26.6 | LINE |
| 30 | 10.315M  | 12.4 | +10.1<br>+0.1 | +0.2<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 23.2 | 50.0                                                      | -26.8 | LINE |
| 31 | 13.572M  | 3.4  | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 14.4 | 50.0<br>Antenna<br>Disconnected and<br>replaced with load | -35.6 | LINE |
| 32 | 13.707M  | 2.8  | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 13.8 | 50.0<br>Antenna<br>Disconnected and<br>replaced with load | -36.2 | LINE |
| 33 | 13.482M  | 2.6  | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 13.6 | 50.0<br>Antenna<br>Disconnected and<br>replaced with load | -36.4 | LINE |

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: 09:41:38  
 Tested By: Skip Doyle / Benny Lovan Sequence#: 3  
 Software: EMITest 5.03.02 120V 60Hz

**Equipment Tested:**

| Device          | Manufacturer | Model # | S/N |
|-----------------|--------------|---------|-----|
| Configuration 2 |              |         |     |

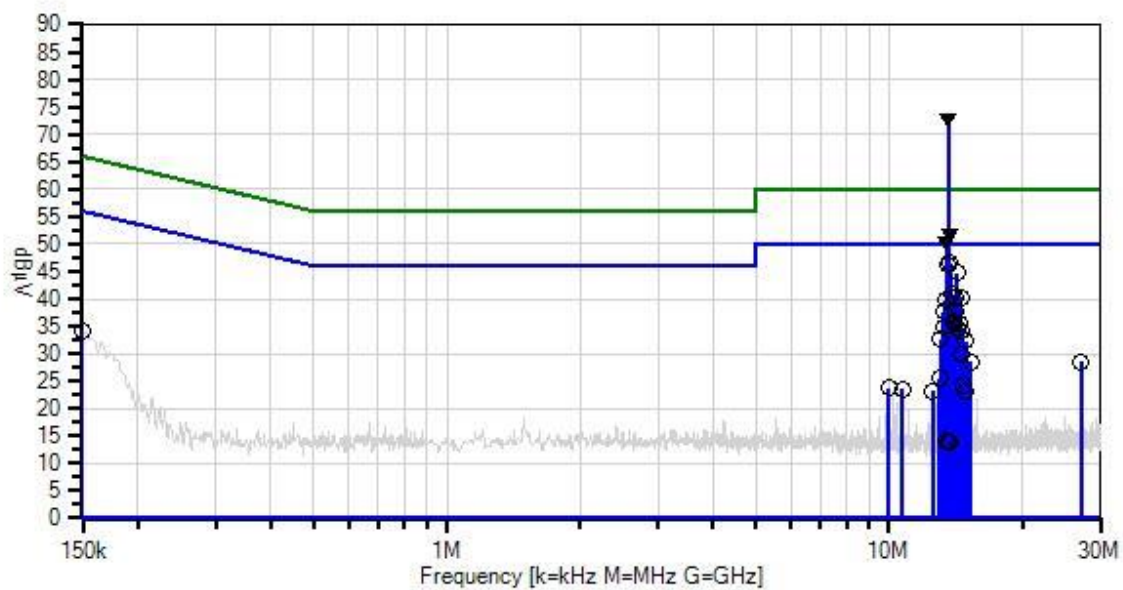
**Support Equipment:**

| Device          | Manufacturer | Model # | S/N |
|-----------------|--------------|---------|-----|
| Configuration 2 |              |         |     |

**Test Conditions / Notes:**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Method: ANSI C 63.10 2013<br><br>Frequency Range of Interest:<br>0.150-30MHz<br>RBW = 9kHz; VBW > 9kHz<br><br>Environmental Conditions:<br>Temperature: 21°C<br>Relative Humidity: 67%<br>Atmospheric Pressure: 97.5kPa<br><br>Highest Generated Frequency: 27.12 MHz<br>The EUT is running at 13.56MHz.<br><br>The EUT is powered by a DC power supply at 12VDC.<br>The EUT is setup to continuously transmit at 13.56MHz.<br>AC Conducted Emissions is being performed on the AC portion of the AC/DC supply. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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



**Test Equipment:**

| 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 (Return) (dB) | 8028-50-TS-24-BNC       | 1/4/2016         | 1/4/2017     |
|    | AN01248  | 50uH LISN-Line 2 (Line) (dB)   | 8028-50-TS-24-BNC       | 1/4/2016         | 1/4/2017     |
| T3 | AN02609  | High Pass Filter               | HE9615-150K-50-720B     | 2/18/2016        | 2/18/2018    |
| T4 | ANP06884 | Cable                          | LMR195-FR-4             | 10/27/2015       | 10/27/2017   |
| T5 | ANMD INT | Cable                          | Underground cables only | 3/17/2016        | 3/17/2018    |
| 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.

Test Lead: RETURN

| #  | Freq    | Rdng | T1<br>T5 | T2<br>T6 | T3<br>T7 | T4   | Dist  | Corr | Spec        | Margin | Polar |
|----|---------|------|----------|----------|----------|------|-------|------|-------------|--------|-------|
|    | MHz     | dBμV | dB       | dB       | dB       | dB   | Table | dBμV | dBμV        | 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     |      |       |      | Fundamental |        |       |
| 2  | 13.707M | 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     |      |       |      | Fundamental |        |       |
| 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     |      |       |      | Fundamental |        |       |
| 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<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 34.6 | 50.0                                               | -15.4 | RETUR |
| 18 | 14.573M  | 23.2 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 34.3 | 50.0                                               | -15.7 | RETUR |
| 19 | 13.049M  | 21.7 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 32.7 | 50.0                                               | -17.3 | RETUR |
| 20 | 14.934M  | 21.1 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 32.2 | 50.0                                               | -17.8 | RETUR |
| 21 | 14.646M  | 18.7 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 29.8 | 50.0                                               | -20.2 | RETUR |
| 22 | 15.331M  | 17.5 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 28.6 | 50.0                                               | -21.4 | RETUR |
| 23 | 27.124M  | 16.9 | +10.1<br>+0.2 | +0.7<br>+0.0 | +0.3<br>+0.2 | +0.1 | +0.0 | 28.5 | 50.0                                               | -21.5 | RETUR |
| 24 | 150.001k | 22.0 | +10.1<br>+0.0 | +0.1<br>+0.0 | +2.0<br>+0.0 | +0.0 | +0.0 | 34.2 | 56.0                                               | -21.8 | RETUR |
| 25 | 12.976M  | 14.5 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 25.5 | 50.0                                               | -24.5 | RETUR |
| 26 | 14.718M  | 13.0 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 24.1 | 50.0                                               | -25.9 | RETUR |
| 27 | 9.963M   | 12.8 | +10.1<br>+0.1 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 23.7 | 50.0                                               | -26.3 | RETUR |
| 28 | 10.694M  | 12.6 | +10.1<br>+0.1 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 23.5 | 50.0                                               | -26.5 | RETUR |
| 29 | 12.543M  | 12.3 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 23.3 | 50.0                                               | -26.7 | RETUR |
| 30 | 14.862M  | 12.2 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 23.3 | 50.0                                               | -26.7 | RETUR |
| 31 | 13.491M  | 3.2  | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 14.3 | 50.0<br>Antenna<br>disconnected and<br>port Loaded | -35.7 | RETUR |
| 32 | 13.572M  | 2.8  | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 13.9 | 50.0<br>Antenna<br>disconnected and<br>port Loaded | -36.1 | RETUR |
| 33 | 13.707M  | 2.7  | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 13.8 | 50.0<br>Antenna<br>disconnected and<br>port Loaded | -36.2 | RETUR |

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: 09:55:30  
 Tested By: Skip Doyle / Benny Lovan Sequence#: 5  
 Software: EMITest 5.03.02 120V 60Hz

***Equipment Tested:***

| Device          | Manufacturer | Model # | S/N |
|-----------------|--------------|---------|-----|
| Configuration 3 |              |         |     |

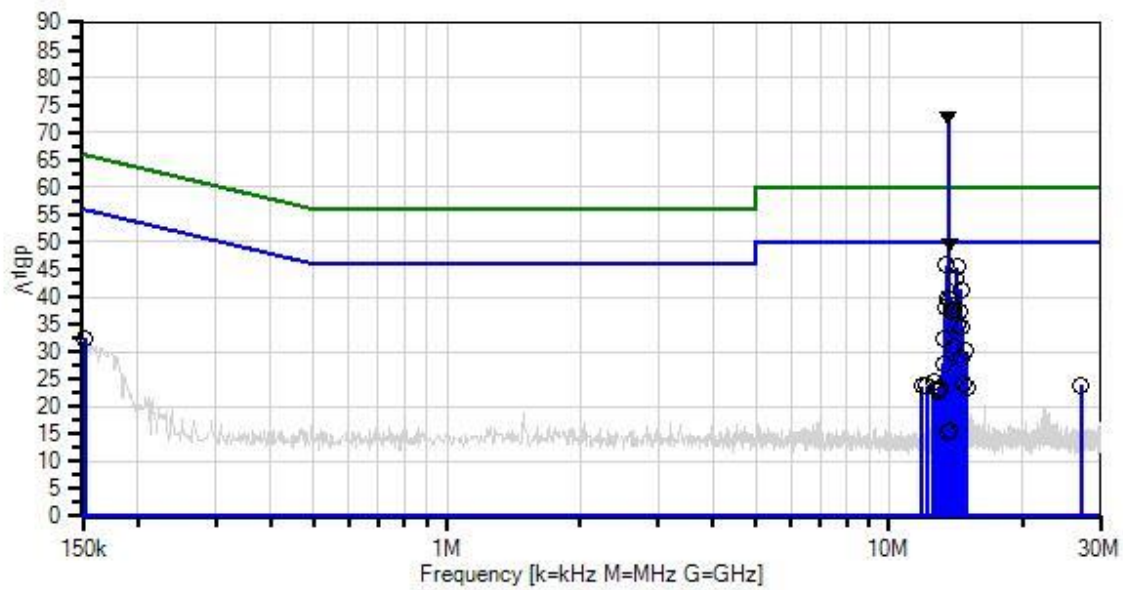
***Support Equipment:***

| Device          | Manufacturer | Model # | S/N |
|-----------------|--------------|---------|-----|
| Configuration 3 |              |         |     |

***Test Conditions / Notes:***

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Test Method: ANSI C 63.10 2013</p> <p>Frequency Range of Interest:<br/>0.150-30MHz<br/>RBW = 9kHz; VBW &gt; 9kHz</p> <p>Environmental Conditions:<br/>Temperature: 21°C<br/>Relative Humidity: 67%<br/>Atmospheric Pressure: 97.5kPa</p> <p>Highest Generated Frequency: 27.12 MHz<br/>The EUT is running at 13.56MHz.</p> <p>The EUT is powered by a DC power supply at 12VDC.<br/>The EUT is setup to continuously transmit at 13.56MHz.<br/>AC Conducted Emissions is being performed on the AC portion of the AC/DC supply.</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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



**Test Equipment:**

| 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 (Return) (dB) | 8028-50-TS-24-BNC       | 1/4/2016         | 1/4/2017     |
| T2 | AN01248  | 50uH LISN-Line 2 (Line) (dB)   | 8028-50-TS-24-BNC       | 1/4/2016         | 1/4/2017     |
| T3 | AN02609  | High Pass Filter               | HE9615-150K-50-720B     | 2/18/2016        | 2/18/2018    |
| T4 | ANP06884 | Cable                          | LMR195-FR-4             | 10/27/2015       | 10/27/2017   |
| T5 | ANMD INT | Cable                          | Underground cables only | 3/17/2016        | 3/17/2018    |
| 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.

Test Lead: LINE

| #  | Freq    | Rdng | T1    | T2   | T3   | T4   | Dist  | Corr | Spec        | Margin | Polar |
|----|---------|------|-------|------|------|------|-------|------|-------------|--------|-------|
|    | MHz     | dBμV | T5    | T6   | T7   |      | Table | dBμV | dBμV        | 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 |      |       |      | Fundamental |        |       |
| 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 |      |       |      | Fundamental |        |       |
| 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<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 30.8 | 50.0                                        | -19.2 | LINE |
| 18 | 14.943M  | 19.2 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 30.2 | 50.0                                        | -19.8 | LINE |
| 19 | 14.646M  | 17.7 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 28.7 | 50.0                                        | -21.3 | LINE |
| 20 | 13.256M  | 16.8 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 27.8 | 50.0                                        | -22.2 | LINE |
| 21 | 151.819k | 20.4 | +10.1<br>+0.0 | +0.1<br>+0.0 | +1.8<br>+0.0 | +0.0 | +0.0 | 32.4 | 55.9                                        | -23.5 | LINE |
| 22 | 12.597M  | 13.7 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 24.7 | 50.0                                        | -25.3 | LINE |
| 23 | 14.727M  | 13.3 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 24.3 | 50.0                                        | -25.7 | LINE |
| 24 | 27.124M  | 13.0 | +10.1<br>+0.2 | +0.1<br>+0.0 | +0.3<br>+0.2 | +0.1 | +0.0 | 24.0 | 50.0                                        | -26.0 | LINE |
| 25 | 12.155M  | 12.9 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.1<br>+0.1 | +0.1 | +0.0 | 23.8 | 50.0                                        | -26.2 | LINE |
| 26 | 11.867M  | 12.8 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.1<br>+0.1 | +0.1 | +0.0 | 23.7 | 50.0                                        | -26.3 | LINE |
| 27 | 13.040M  | 12.5 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 23.5 | 50.0                                        | -26.5 | LINE |
| 28 | 15.015M  | 12.4 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 23.4 | 50.0                                        | -26.6 | LINE |
| 29 | 12.967M  | 12.3 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 23.3 | 50.0                                        | -26.7 | LINE |
| 30 | 12.895M  | 11.6 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 22.6 | 50.0                                        | -27.4 | LINE |
| 31 | 13.696M  | 4.7  | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 15.7 | 50.0                                        | -34.3 | LINE |
|    |          |      |               |              |              |      |      |      | Antenna disconnected and replaced with load |       |      |
| 32 | 13.563M  | 4.2  | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 15.2 | 50.0                                        | -34.8 | LINE |
|    |          |      |               |              |              |      |      |      | 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: 10:00:58  
 Tested By: Skip Doyle / Benny Lovan Sequence#: 6  
 Software: EMITest 5.03.02 120V 60Hz

***Equipment Tested:***

| Device          | Manufacturer | Model # | S/N |
|-----------------|--------------|---------|-----|
| Configuration 3 |              |         |     |

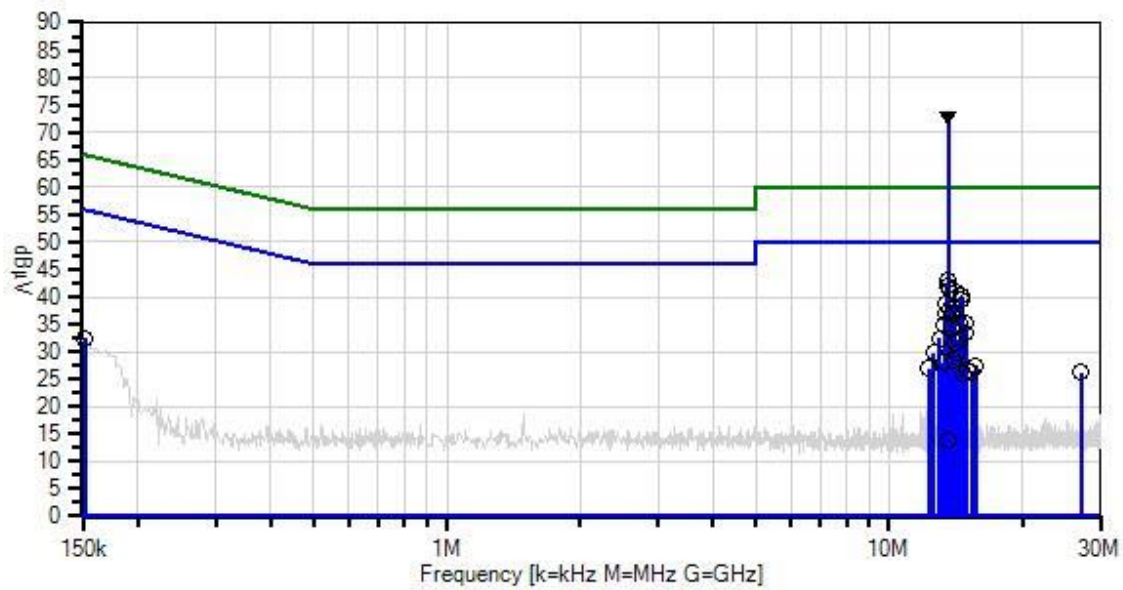
***Support Equipment:***

| Device          | Manufacturer | Model # | S/N |
|-----------------|--------------|---------|-----|
| Configuration 3 |              |         |     |

***Test Conditions / Notes:***

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Test Method: ANSI C 63.10 2013</p> <p>Frequency Range of Interest:<br/>0.150-30MHz<br/>RBW = 9kHz; VBW &gt; 9kHz</p> <p>Environmental Conditions:<br/>Temperature: 21°C<br/>Relative Humidity: 67%<br/>Atmospheric Pressure: 97.5kPa</p> <p>Highest Generated Frequency: 27.12 MHz<br/>The EUT is running at 13.56MHz.</p> <p>The EUT is powered by a DC power supply at 12VDC.<br/>The EUT is setup to continuously transmit at 13.56MHz.<br/>AC Conducted Emissions is being performed on the AC portion of the AC/DC supply.</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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



— Sweep Data  
× QP Readings  
Software Version: 5.03.02

— Readings  
\* Average Readings  
— 1 - 15.207 AC Mains - Average

○ Peak Readings  
▼ Ambient  
— 2 - 15.207 AC Mains - Quasi-peak

**Test Equipment:**

| 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 (Return) (dB) | 8028-50-TS-24-BNC       | 1/4/2016         | 1/4/2017     |
|    | AN01248  | 50uH LISN-Line 2 (Line) (dB)   | 8028-50-TS-24-BNC       | 1/4/2016         | 1/4/2017     |
| T3 | AN02609  | High Pass Filter               | HE9615-150K-50-720B     | 2/18/2016        | 2/18/2018    |
| T4 | ANP06884 | Cable                          | LMR195-FR-4             | 10/27/2015       | 10/27/2017   |
| T5 | ANMD INT | Cable                          | Underground cables only | 3/17/2016        | 3/17/2018    |
| 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.

Test Lead: RETURN

| #  | Freq    | Rdng | T1<br>T5 | T2<br>T6 | T3<br>T7 | T4   | Dist  | Corr | Spec        | Margin | Polar |
|----|---------|------|----------|----------|----------|------|-------|------|-------------|--------|-------|
|    | MHz     | dBμV | dB       | dB       | dB       | dB   | Table | dBμV | dBμV        | 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     |      |       |      | Fundamental |        |       |
| 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<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 32.4 | 50.0                                                      | -17.6 | RETUR |
| 18 | 14.411M  | 21.0 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 32.1 | 50.0                                                      | -17.9 | RETUR |
| 19 | 14.194M  | 20.7 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 31.8 | 50.0                                                      | -18.2 | RETUR |
| 20 | 14.267M  | 18.8 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 29.9 | 50.0                                                      | -20.1 | RETUR |
| 21 | 12.588M  | 18.8 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 29.8 | 50.0                                                      | -20.2 | RETUR |
| 22 | 14.050M  | 17.2 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 28.3 | 50.0                                                      | -21.7 | RETUR |
| 23 | 13.247M  | 16.9 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 28.0 | 50.0                                                      | -22.0 | RETUR |
| 24 | 15.683M  | 16.4 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 27.5 | 50.0                                                      | -22.5 | RETUR |
| 25 | 12.291M  | 16.1 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.1<br>+0.1 | +0.1 | +0.0 | 27.0 | 50.0                                                      | -23.0 | RETUR |
| 26 | 14.997M  | 15.5 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 26.6 | 50.0                                                      | -23.4 | RETUR |
| 27 | 151.819k | 20.4 | +10.1<br>+0.0 | +0.1<br>+0.0 | +1.8<br>+0.0 | +0.0 | +0.0 | 32.4 | 55.9                                                      | -23.5 | RETUR |
| 28 | 15.385M  | 15.3 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 26.4 | 50.0                                                      | -23.6 | RETUR |
| 29 | 27.124M  | 14.6 | +10.1<br>+0.2 | +0.7<br>+0.0 | +0.3<br>+0.2 | +0.1 | +0.0 | 26.2 | 50.0                                                      | -23.8 | RETUR |
| 30 | 14.709M  | 14.7 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 25.8 | 50.0                                                      | -24.2 | RETUR |
| 31 | 13.572M  | 2.8  | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 13.9 | 50.0<br>Antenna<br>disconnected and<br>replaced with load | -36.1 | RETUR |

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: 10:31:54  
 Tested By: Skip Doyle / Benny Lovan Sequence#: 12  
 Software: EMITest 5.03.02 120V 60Hz

***Equipment Tested:***

| Device          | Manufacturer | Model # | S/N |
|-----------------|--------------|---------|-----|
| Configuration 6 |              |         |     |

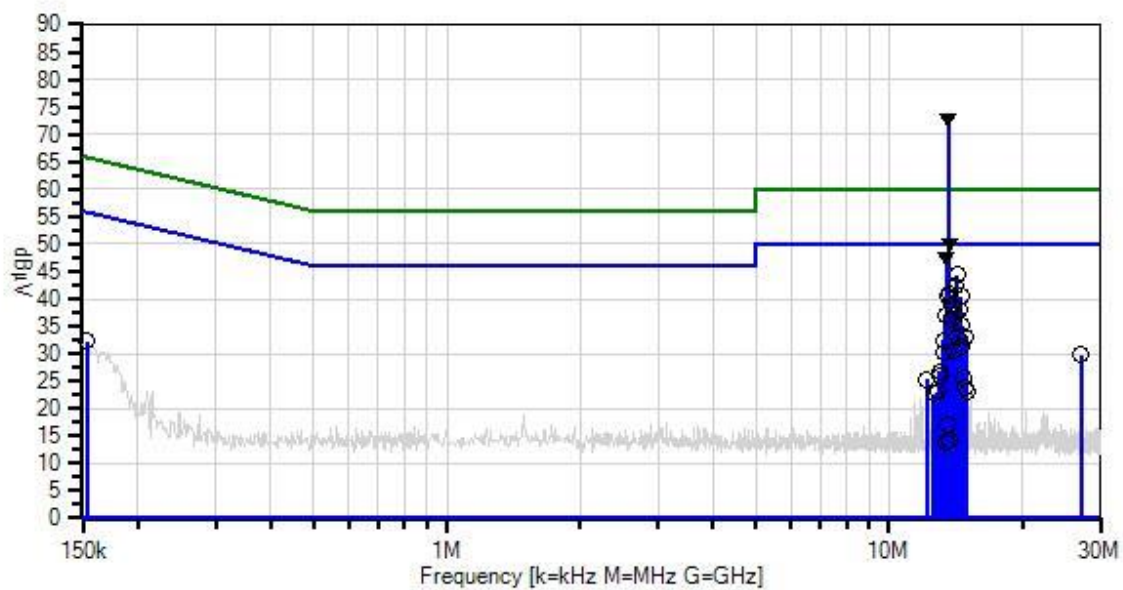
***Support Equipment:***

| Device          | Manufacturer | Model # | S/N |
|-----------------|--------------|---------|-----|
| Configuration 6 |              |         |     |

***Test Conditions / Notes:***

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Test Method: ANSI C 63.10 2013</p> <p>Frequency Range of Interest:<br/>0.150-30MHz<br/>RBW = 9kHz; VBW &gt; 9kHz</p> <p>Environmental Conditions:<br/>Temperature: 21°C<br/>Relative Humidity: 67%<br/>Atmospheric Pressure: 97.5kPa</p> <p>Highest Generated Frequency: 27.12 MHz<br/>The EUT is running at 13.56MHz.</p> <p>The EUT is powered by a DC power supply at 12VDC.<br/>The EUT is setup to continuously transmit at 13.56MHz.<br/>AC Conducted Emissions is being performed on the AC portion of the AC/DC supply.</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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



— Sweep Data  
x QP Readings  
Software Version: 5.03.02

— Readings  
\* Average Readings  
— 1 - 15.207 AC Mains - Average

○ Peak Readings  
▼ Ambient  
— 2 - 15.207 AC Mains - Quasi-peak

**Test Equipment:**

| 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 (Return) (dB) | 8028-50-TS-24-BNC       | 1/4/2016         | 1/4/2017     |
| T2 | AN01248  | 50uH LISN-Line 2 (Line) (dB)   | 8028-50-TS-24-BNC       | 1/4/2016         | 1/4/2017     |
| T3 | AN02609  | High Pass Filter               | HE9615-150K-50-720B     | 2/18/2016        | 2/18/2018    |
| T4 | ANP06884 | Cable                          | LMR195-FR-4             | 10/27/2015       | 10/27/2017   |
| T5 | ANMD INT | Cable                          | Underground cables only | 3/17/2016        | 3/17/2018    |
| 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.

Test Lead: LINE

| #  | Freq    | Rdng | T1<br>T5 | T2<br>T6 | T3<br>T7 | T4   | Dist  | Corr | Spec        | Margin | Polar |
|----|---------|------|----------|----------|----------|------|-------|------|-------------|--------|-------|
|    | MHz     | dBμV | dB       | dB       | dB       | dB   | Table | dBμV | dBμV        | 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     |      |       |      | 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 |        |       |
| 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     |      |       |      | Fundamental |        |       |
| 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     |      |       |      |             |        |       |
| 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     | +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  |
|    |         |      | +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  |
|    |         |      | +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  |
|    |         |      | +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  |
|    |         |      | +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  |
|    |         |      | +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  |
|    |         |      | +0.2     | +0.0     | +0.1     |      |       |      |             |        |       |

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

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 |              |         |     |

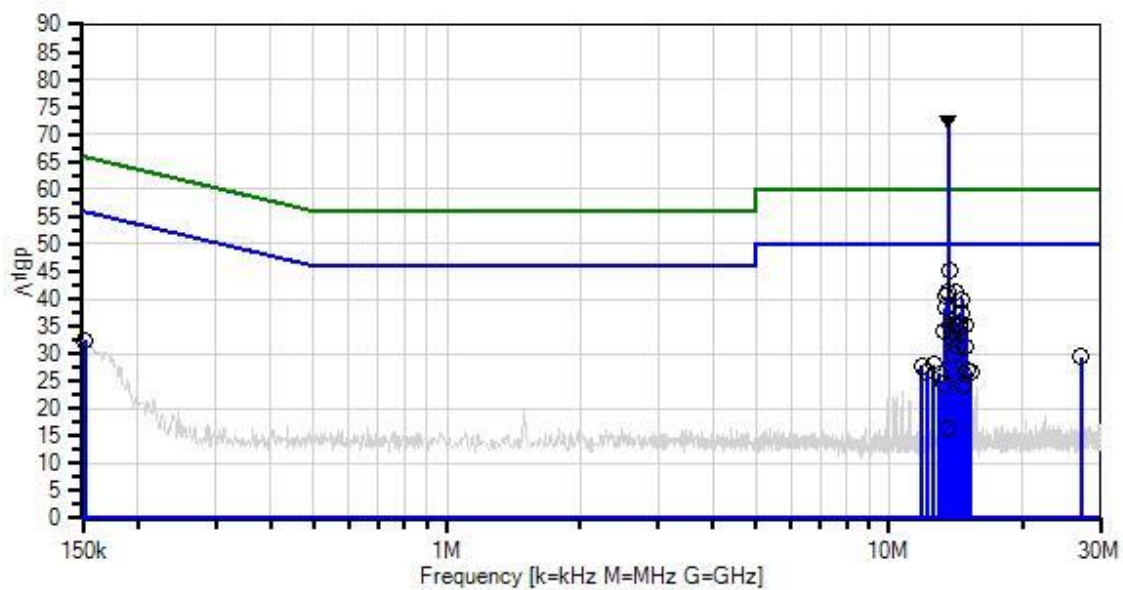
***Support Equipment:***

| Device          | Manufacturer | Model # | S/N |
|-----------------|--------------|---------|-----|
| Configuration 6 |              |         |     |

***Test Conditions / Notes:***

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Test Method: ANSI C 63.10 2013</p> <p>Frequency Range of Interest:<br/>0.150-30MHz<br/>RBW = 9kHz; VBW &gt; 9kHz</p> <p>Environmental Conditions:<br/>Temperature: 21°C<br/>Relative Humidity: 67%<br/>Atmospheric Pressure: 97.5kPa</p> <p>Highest Generated Frequency: 27.12 MHz<br/>The EUT is running at 13.56MHz.</p> <p>The EUT is powered by a DC power supply at 12VDC.<br/>The EUT is setup to continuously transmit at 13.56MHz.<br/>AC Conducted Emissions is being performed on the AC portion of the AC/DC supply.</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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



**Test Equipment:**

| 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 (Return) (dB) | 8028-50-TS-24-BNC       | 1/4/2016         | 1/4/2017     |
|    | AN01248  | 50uH LISN-Line 2 (Line) (dB)   | 8028-50-TS-24-BNC       | 1/4/2016         | 1/4/2017     |
| T3 | AN02609  | High Pass Filter               | HE9615-150K-50-720B     | 2/18/2016        | 2/18/2018    |
| T4 | ANP06884 | Cable                          | LMR195-FR-4             | 10/27/2015       | 10/27/2017   |
| T5 | ANMD INT | Cable                          | Underground cables only | 3/17/2016        | 3/17/2018    |
| 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.

Test Lead: RETURN

| #  | Freq    | Rdng | T1    | T2   | T3   | T4   | Dist  | Corr | Spec        | Margin | Polar |
|----|---------|------|-------|------|------|------|-------|------|-------------|--------|-------|
|    | MHz     | dBμV | T5    | T6   | T7   |      | Table | dBμV | dBμV        | 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 |      |       |      | Fundamental |        |       |
| 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 | 14.853M  | 20.3 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 31.4 | 50.0                                                      | -18.6 | RETUR |
| 18 | 14.276M  | 20.2 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 31.3 | 50.0                                                      | -18.7 | RETUR |
| 19 | 14.059M  | 18.9 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 30.0 | 50.0                                                      | -20.0 | RETUR |
| 20 | 27.124M  | 17.8 | +10.1<br>+0.2 | +0.7<br>+0.0 | +0.3<br>+0.2 | +0.1 | +0.0 | 29.4 | 50.0                                                      | -20.6 | RETUR |
| 21 | 12.597M  | 17.1 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 28.1 | 50.0                                                      | -21.9 | RETUR |
| 22 | 11.867M  | 17.0 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.1<br>+0.1 | +0.1 | +0.0 | 27.9 | 50.0                                                      | -22.1 | RETUR |
| 23 | 15.006M  | 15.8 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 26.9 | 50.0                                                      | -23.1 | RETUR |
| 24 | 12.155M  | 15.8 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.1<br>+0.1 | +0.1 | +0.0 | 26.7 | 50.0                                                      | -23.3 | RETUR |
| 25 | 151.819k | 20.5 | +10.1<br>+0.0 | +0.1<br>+0.0 | +1.8<br>+0.0 | +0.0 | +0.0 | 32.5 | 55.9                                                      | -23.4 | RETUR |
| 26 | 15.322M  | 15.5 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 26.6 | 50.0                                                      | -23.4 | RETUR |
| 27 | 13.031M  | 15.4 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 26.4 | 50.0                                                      | -23.6 | RETUR |
| 28 | 14.709M  | 15.3 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 26.4 | 50.0                                                      | -23.6 | RETUR |
| 29 | 13.256M  | 13.5 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 24.6 | 50.0                                                      | -25.4 | RETUR |
| 30 | 14.781M  | 13.2 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 24.3 | 50.0                                                      | -25.7 | RETUR |
| 31 | 13.572M  | 5.2  | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 16.3 | 50.0<br>Antenna<br>disconnected and<br>replaced with load | -33.7 | RETUR |

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 |              |         |     |

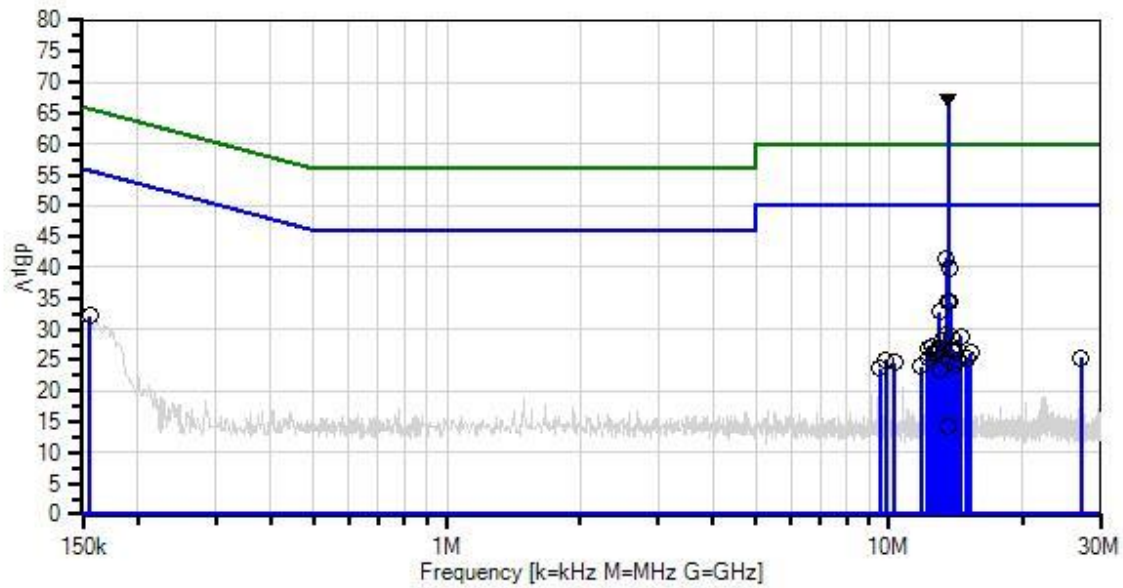
***Support Equipment:***

| Device          | Manufacturer | Model # | S/N |
|-----------------|--------------|---------|-----|
| Configuration 7 |              |         |     |

***Test Conditions / Notes:***

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Method: ANSI C 63.10 2013<br><br>Frequency Range of Interest:<br>0.150-30MHz<br>RBW = 9kHz; VBW > 9kHz<br><br>Environmental Conditions:<br>Temperature: 21°C<br>Relative Humidity: 67%<br>Atmospheric Pressure: 97.5kPa<br><br>Highest Generated Frequency: 27.12 MHz<br>The EUT is running at 13.56MHz.<br><br>The EUT is powered by a DC power supply at 12VDC.<br>The EUT is setup to continuously transmit at 13.56MHz.<br>AC Conducted Emissions is being performed on the AC portion of the AC/DC supply. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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



**Test Equipment:**

| 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 (Return) (dB) | 8028-50-TS-24-BNC       | 1/4/2016         | 1/4/2017     |
| T2 | AN01248  | 50uH LISN-Line 2 (Line) (dB)   | 8028-50-TS-24-BNC       | 1/4/2016         | 1/4/2017     |
| T3 | AN02609  | High Pass Filter               | HE9615-150K-50-720B     | 2/18/2016        | 2/18/2018    |
| T4 | ANP06884 | Cable                          | LMR195-FR-4             | 10/27/2015       | 10/27/2017   |
| T5 | ANMD INT | Cable                          | Underground cables only | 3/17/2016        | 3/17/2018    |
| 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.

Test Lead: LINE

| #  | Freq     | Rdng | T1<br>T5 | T2<br>T6 | T3<br>T7 | T4   | Dist  | Corr | Spec        | Margin | Polar |
|----|----------|------|----------|----------|----------|------|-------|------|-------------|--------|-------|
|    | MHz      | dBμV | dB       | dB       | dB       | dB   | Table | dBμV | dBμV        | dB     | Ant   |
| 1  | 13.572M  | 56.5 | +10.1    | +0.3     | +0.2     | +0.1 | +0.0  | 67.5 | 50.0        | +17.5  | LINE  |
|    | Ambient  |      | +0.2     | +0.0     | +0.1     |      |       |      | Fundamental |        |       |
| 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<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 26.3 | 50.0                                                        | -23.7 | LINE |
| 18 | 15.268M | 15.2 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 26.2 | 50.0                                                        | -23.8 | LINE |
| 19 | 12.724M | 14.8 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 25.8 | 50.0                                                        | -24.2 | LINE |
| 20 | 13.310M | 14.5 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 25.5 | 50.0                                                        | -24.5 | LINE |
| 21 | 27.124M | 14.4 | +10.1<br>+0.2 | +0.1<br>+0.0 | +0.3<br>+0.2 | +0.1 | +0.0 | 25.4 | 50.0                                                        | -24.6 | LINE |
| 22 | 14.979M | 14.3 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 25.3 | 50.0                                                        | -24.7 | LINE |
| 23 | 12.291M | 14.3 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.1<br>+0.1 | +0.1 | +0.0 | 25.2 | 50.0                                                        | -24.8 | LINE |
| 24 | 9.837M  | 14.2 | +10.1<br>+0.1 | +0.2<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 25.0 | 50.0                                                        | -25.0 | LINE |
| 25 | 14.249M | 13.9 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 24.9 | 50.0                                                        | -25.1 | LINE |
| 26 | 10.279M | 13.8 | +10.1<br>+0.1 | +0.2<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 24.6 | 50.0                                                        | -25.4 | LINE |
| 27 | 14.104M | 13.5 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 24.5 | 50.0                                                        | -25.5 | LINE |
| 28 | 11.776M | 13.0 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.1<br>+0.1 | +0.1 | +0.0 | 23.9 | 50.0                                                        | -26.1 | LINE |
| 29 | 9.548M  | 12.8 | +10.1<br>+0.1 | +0.2<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 23.6 | 50.0                                                        | -26.4 | LINE |
| 30 | 13.085M | 12.5 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 23.5 | 50.0                                                        | -26.5 | LINE |
| 31 | 13.572M | 3.2  | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 14.2 | 50.0<br>Antenna<br>disconnected and<br>replaced with a load | -35.8 | LINE |

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 |              |         |     |

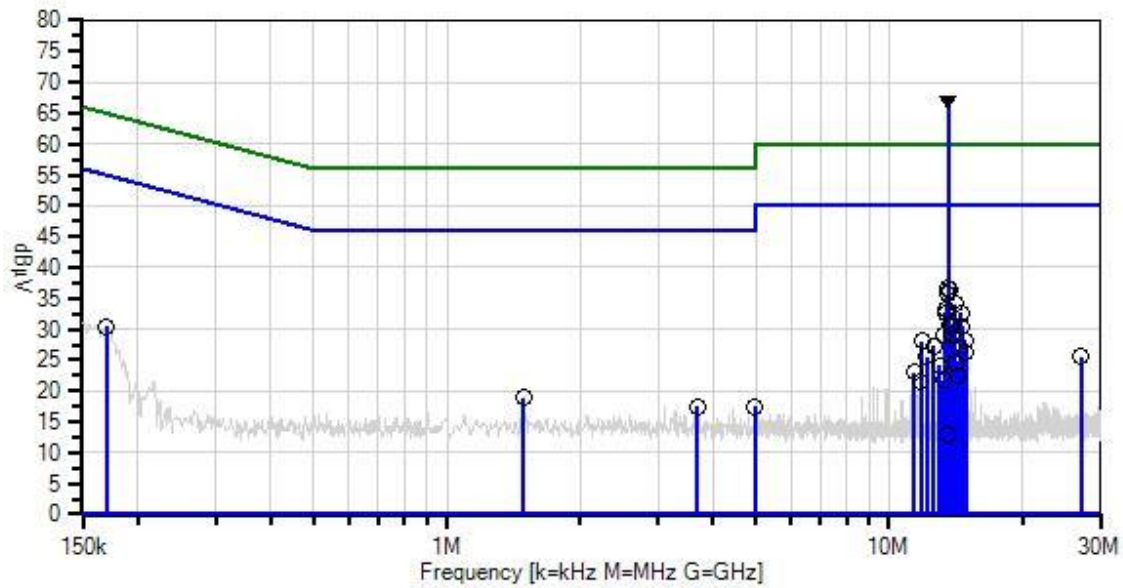
**Support Equipment:**

| Device          | Manufacturer | Model # | S/N |
|-----------------|--------------|---------|-----|
| Configuration 7 |              |         |     |

**Test Conditions / Notes:**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Method: ANSI C 63.10 2013<br><br>Frequency Range of Interest:<br>0.150-30MHz<br>RBW = 9kHz; VBW > 9kHz<br><br>Environmental Conditions:<br>Temperature: 21°C<br>Relative Humidity: 67%<br>Atmospheric Pressure: 97.5kPa<br><br>Highest Generated Frequency: 27.12 MHz<br>The EUT is running at 13.56MHz.<br><br>The EUT is powered by a DC power supply at 12VDC.<br>The EUT is setup to continuously transmit at 13.56MHz.<br>AC Conducted Emissions is being performed on the AC portion of the AC/DC supply. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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



|                           |                                 |                                    |
|---------------------------|---------------------------------|------------------------------------|
| — Sweep Data              | — Readings                      | ○ Peak Readings                    |
| x QP Readings             | * Average Readings              | ▼ Ambient                          |
| Software Version: 5.03.02 | — 1 - 15.207 AC Mains - Average | — 2 - 15.207 AC Mains - Quasi-peak |

**Test Equipment:**

| 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 (Return) (dB) | 8028-50-TS-24-BNC       | 1/4/2016         | 1/4/2017     |
|    | AN01248  | 50uH LISN-Line 2 (Line) (dB)   | 8028-50-TS-24-BNC       | 1/4/2016         | 1/4/2017     |
| T3 | AN02609  | High Pass Filter               | HE9615-150K-50-720B     | 2/18/2016        | 2/18/2018    |
| T4 | ANP06884 | Cable                          | LMR195-FR-4             | 10/27/2015       | 10/27/2017   |
| T5 | ANMD INT | Cable                          | Underground cables only | 3/17/2016        | 3/17/2018    |
| T6 | AN02111  | Spectrum Analyzer              | 8593EM                  | 6/4/2015         | 6/4/2016     |
| T7 | ANP01153 | Cable                          | NA                      | 3/3/2016         | 3/3/2018     |

**Measurement Data:**

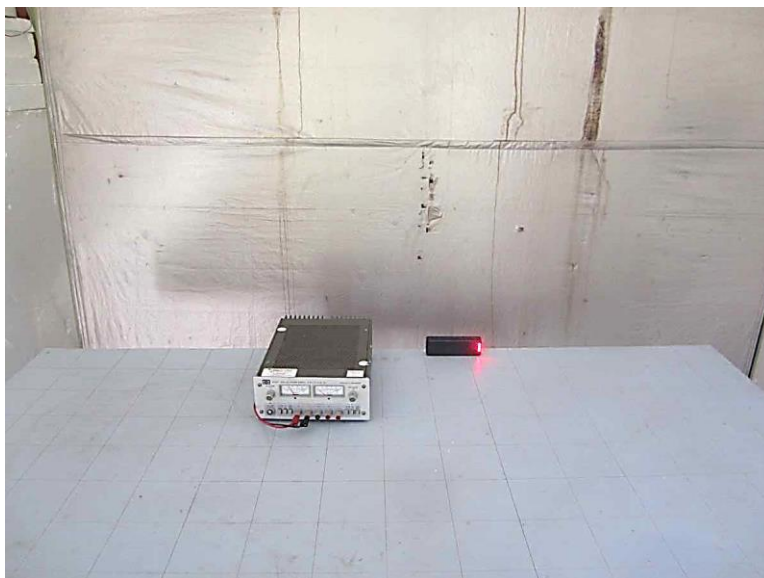
Reading listed by margin.

Test Lead: RETURN

| #  | Freq    | Rdng | T1<br>T5 | T2<br>T6 | T3<br>T7 | T4   | Dist  | Corr | Spec        | Margin | Polar |
|----|---------|------|----------|----------|----------|------|-------|------|-------------|--------|-------|
|    | MHz     | dBμV | dB       | dB       | dB       | dB   | Table | dBμV | dBμV        | 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     |      |       |      | Fundamental |        |       |
| 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<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 26.8 | 50.0                                                        | -23.2 | RETUR |
| 18 | 14.925M  | 15.3 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 26.4 | 50.0                                                        | -23.6 | RETUR |
| 19 | 27.124M  | 14.0 | +10.1<br>+0.2 | +0.7<br>+0.0 | +0.3<br>+0.2 | +0.1 | +0.0 | 25.6 | 50.0                                                        | -24.4 | RETUR |
| 20 | 169.999k | 19.9 | +10.1<br>+0.0 | +0.1<br>+0.0 | +0.4<br>+0.0 | +0.0 | +0.0 | 30.5 | 55.0                                                        | -24.5 | RETUR |
| 21 | 12.155M  | 14.6 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.1<br>+0.1 | +0.1 | +0.0 | 25.5 | 50.0                                                        | -24.5 | RETUR |
| 22 | 14.194M  | 13.7 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 24.8 | 50.0                                                        | -25.2 | RETUR |
| 23 | 13.031M  | 13.1 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 24.1 | 50.0                                                        | -25.9 | RETUR |
| 24 | 11.379M  | 12.0 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 23.0 | 50.0                                                        | -27.0 | RETUR |
| 25 | 1.491M   | 8.4  | +10.1<br>+0.1 | +0.1<br>+0.0 | +0.2<br>+0.0 | +0.0 | +0.0 | 18.9 | 46.0                                                        | -27.1 | RETUR |
| 26 | 14.267M  | 11.5 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 22.6 | 50.0                                                        | -27.4 | RETUR |
| 27 | 13.247M  | 10.7 | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 21.8 | 50.0                                                        | -28.2 | RETUR |
| 28 | 11.794M  | 10.7 | +10.1<br>+0.2 | +0.3<br>+0.0 | +0.1<br>+0.1 | +0.1 | +0.0 | 21.6 | 50.0                                                        | -28.4 | RETUR |
| 29 | 3.692M   | 7.0  | +10.1<br>+0.1 | +0.1<br>+0.0 | +0.1<br>+0.1 | +0.0 | +0.0 | 17.5 | 46.0                                                        | -28.5 | RETUR |
| 30 | 4.964M   | 7.0  | +10.1<br>+0.1 | +0.1<br>+0.0 | +0.1<br>+0.1 | +0.0 | +0.0 | 17.5 | 46.0                                                        | -28.5 | RETUR |
| 31 | 13.572M  | 1.9  | +10.1<br>+0.2 | +0.4<br>+0.0 | +0.2<br>+0.1 | +0.1 | +0.0 | 13.0 | 50.0<br>Antenna<br>disconnected and<br>replaced with a load | -37.0 | RETUR |

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.

\*Spot checks performed on worst case emissions

### 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

## 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                         |

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

### Test Data Summary – Radiated Field Strength Measurement

| Frequency (MHz) | Modulation | Ant. Type | Measured (dBuV/m @ 30m) | Limit (dBuV/m @ 30m) | Results |
|-----------------|------------|-----------|-------------------------|----------------------|---------|
| 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: **Maximized Emissions** Time: 12:21:25  
 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:

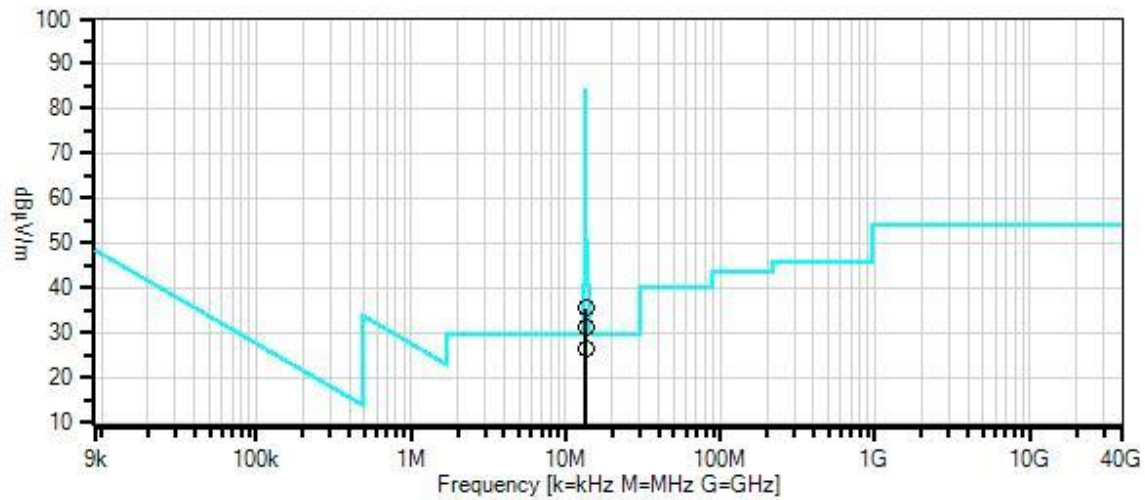
Radiated Emissions Spurious Measurements (13.56MHz)

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.

WaveLynx Technologies Corporation. W/O#: 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)

**Test Equipment:**

| 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    |
| T3 | AN03634  | Spectrum Analyzer                    | E4445A       | 8/30/2017        | 8/30/2018    |
| T4 | ANP06229 | Cable-Amplitude<br>15 to 45degC (dB) | CXTA04A-50   | 11/29/2016       | 11/29/2018   |
| T5 | AN00226  | Loop Antenna                         | 6502         | 4/4/2016         | 4/4/2018     |

**Measurement Data:**

Reading listed by margin.

Test Distance: 3 Meters

| # | Freq    | Rdng       | T1<br>T5     | T2   | T3   | T4   | Dist         | Corr         | Spec          | Margin | Polar        |
|---|---------|------------|--------------|------|------|------|--------------|--------------|---------------|--------|--------------|
|   | MHz     | dB $\mu$ V | dB           | dB   | dB   | dB   | Table        | dB $\mu$ V/m | dB $\mu$ V/m  | dB     | Ant          |
| 1 | 13.560M | 65.0       | +0.4<br>+9.6 | +0.1 | +0.0 | +0.4 | -40.0<br>210 | 35.5         | 84.0<br>12VDC | -48.5  | Paral<br>100 |
| 2 | 13.560M | 60.5       | +0.4<br>+9.6 | +0.1 | +0.0 | +0.4 | -40.0<br>214 | 31.0         | 84.0<br>12VDC | -53.0  | Paral<br>100 |
| 3 | 13.560M | 55.8       | +0.4<br>+9.6 | +0.1 | +0.0 | +0.4 | -40.0<br>125 | 26.3         | 84.0<br>12VDC | -57.7  | Perpe<br>100 |
| 4 | 13.560M | 35.2       | +0.4<br>+9.6 | +0.1 | +0.0 | +0.4 | -40.0<br>238 | 5.7          | 84.0<br>12VDC | -78.3  | Z-Axi<br>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 |              |         |     |

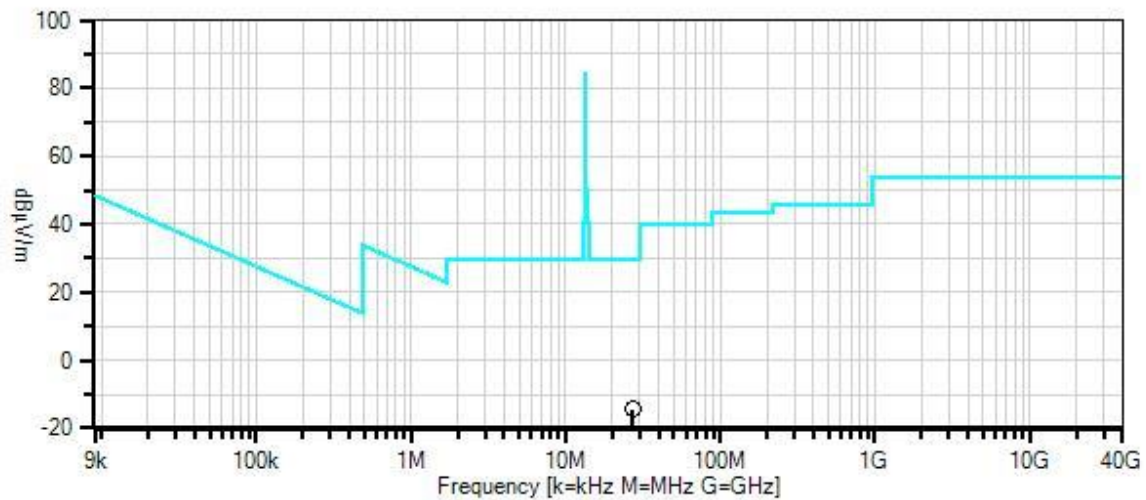
#### Support Equipment:

| 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

WaveLynx Technologies Corporation. W/O#: 100602 Sequence#: 4 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)

**Test Equipment:**

| 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    |
| T3 | ANP06229 | Cable-Amplitude<br>15 to 45degC (dB) | CXTA04A-50   | 11/29/2016       | 11/29/2018   |
| T4 | AN00226  | Loop Antenna                         | 6502         | 4/4/2016         | 4/4/2018     |

**Measurement Data:**

Reading listed by margin.

Test Distance: 3 Meters

| # | Freq<br>MHz | Rdng<br>dBμV | T1<br>dB | T2<br>dB | T3<br>dB | T4<br>dB | Dist<br>Table | Corr<br>dBμV/m | Spec<br>dBμV/m | Margin<br>dB | Polar<br>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        |

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 |              |         |     |

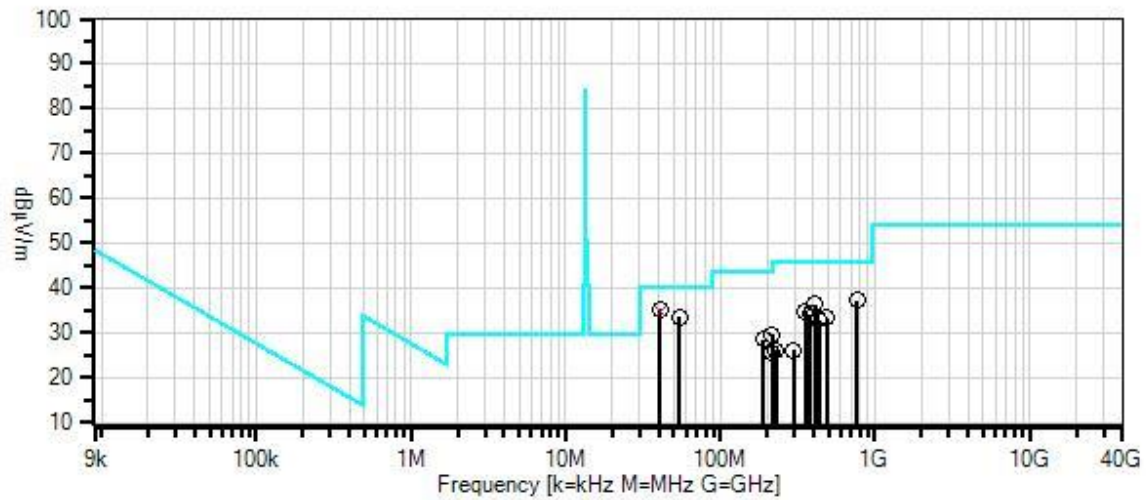
***Support Equipment:***

| 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

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)

**Test Equipment:**

| 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    |
| T3 | 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<br>15 to 45degC (dB) | CXTA04A-50   | 11/29/2016       | 11/29/2018   |
|    | ANP06229 | Cable-Amplitude -<br>15 to 15degC    | CXTA04A-50   | 11/29/2016       | 11/29/2018   |
| T7 | ANP06885 | Cable                                | P06885       | 9/6/2017         | 9/6/2019     |

**Measurement Data:**

Reading listed by margin.

Test Distance: 3 Meters

| #  | Freq<br>MHz   | Rdng<br>dBμV | T1<br>T5<br>dB | T2<br>T6<br>dB | T3<br>T7<br>dB | T4<br>dB | Dist<br>Table | Corr<br>dBμV/m | Spec<br>dBμV/m | Margin<br>dB | Polar<br>Ant |
|----|---------------|--------------|----------------|----------------|----------------|----------|---------------|----------------|----------------|--------------|--------------|
| 1  | 40.680M       | 42.7         | -27.9<br>+0.1  | +12.9<br>+0.6  | +6.0<br>+0.2   | +0.7     | +0.0          | 35.3           | 40.0           | -4.7         | Vert         |
| 2  | 40.681M<br>QP | 42.2         | -27.9<br>+0.1  | +12.9<br>+0.6  | +6.0<br>+0.2   | +0.7     | +0.0          | 34.8           | 40.0           | -5.2         | Horiz        |
| ^  | 40.680M       | 45.1         | -27.9<br>+0.1  | +12.9<br>+0.6  | +6.0<br>+0.2   | +0.7     | +0.0          | 37.7           | 40.0           | -2.3         | Horiz        |
| 4  | 54.240M       | 46.3         | -27.8<br>+0.1  | +7.1<br>+0.8   | +6.0<br>+0.2   | +0.8     | +0.0          | 33.5           | 40.0           | -6.5         | Vert         |
| 5  | 759.360M      | 30.1         | -28.2<br>+0.4  | +21.9<br>+3.3  | +6.0<br>+0.7   | +3.0     | +0.0          | 37.2           | 46.0           | -8.8         | Vert         |
| 6  | 406.800M      | 36.6         | -27.7<br>+0.3  | +16.2<br>+2.3  | +6.0<br>+0.5   | +2.2     | +0.0          | 36.4           | 46.0           | -9.6         | Vert         |
| 7  | 352.560M      | 36.3         | -27.3<br>+0.3  | +14.9<br>+2.1  | +6.0<br>+0.4   | +2.1     | +0.0          | 34.8           | 46.0           | -11.2        | Horiz        |
| 8  | 379.680M      | 35.2         | -27.5<br>+0.3  | +15.5<br>+2.2  | +6.0<br>+0.4   | +2.1     | +0.0          | 34.2           | 46.0           | -11.8        | Horiz        |
| 9  | 488.160M      | 31.8         | -28.2<br>+0.3  | +17.9<br>+2.6  | +6.0<br>+0.5   | +2.4     | +0.0          | 33.3           | 46.0           | -12.7        | Horiz        |
| 10 | 433.920M      | 32.4         | -27.9<br>+0.3  | +16.8<br>+2.4  | +6.0<br>+0.5   | +2.3     | +0.0          | 32.8           | 46.0           | -13.2        | Horiz        |
| 11 | 189.840M      | 37.2         | -27.3<br>+0.2  | +9.1<br>+1.5   | +6.0<br>+0.3   | +1.5     | +0.0          | 28.5           | 43.5           | -15.0        | Horiz        |
| 12 | 216.960M      | 36.5         | -27.1<br>+0.2  | +10.4<br>+1.6  | +6.0<br>+0.4   | +1.6     | +0.0          | 29.6           | 46.0           | -16.4        | Horiz        |
| 13 | 298.320M      | 29.3         | -27.0<br>+0.2  | +13.4<br>+1.9  | +6.0<br>+0.4   | +1.9     | +0.0          | 26.1           | 46.0           | -19.9        | Horiz        |
| 14 | 230.520M      | 31.8         | -27.1<br>+0.2  | +11.3<br>+1.7  | +6.0<br>+0.4   | +1.7     | +0.0          | 26.0           | 46.0           | -20.0        | Horiz        |
| 15 | 216.960M      | 32.5         | -27.1<br>+0.2  | +10.4<br>+1.6  | +6.0<br>+0.4   | +1.6     | +0.0          | 25.6           | 46.0           | -20.4        | Vert         |

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  $\text{dB}\mu\text{V}/\text{m}$ , the spectrum analyzer reading in  $\text{dB}\mu\text{V}$  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       | ( $\text{dB}\mu\text{V}$ )          |
| +                   | Antenna Factor      | ( $\text{dB}/\text{m}$ )            |
| +                   | Cable Loss          | ( $\text{dB}$ )                     |
| -                   | Distance Correction | ( $\text{dB}$ )                     |
| -                   | Preamplifier Gain   | ( $\text{dB}$ )                     |
| =                   | Corrected Reading   | ( $\text{dB}\mu\text{V}/\text{m}$ ) |

#### TEST INSTRUMENTATION AND ANALYZER SETTINGS

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

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

#### SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

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

##### Peak

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

##### Quasi-Peak

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

##### Average

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