

WaveLynx Technologies Corporation

REVISED TEST REPORT TO 111609-29

**RFID Access Control Reader, APEX
Model: AX-15***

*(See Appendix A for Manufacturers Declaration)

Tested to The Following Standards:

FCC Part 15 Subpart C Section(s)

**15.207 & 15.225
(13.110-14.010 MHz)**

Report No.: 111609-29A

Date of issue: November 24, 2025



Test Certificate # 803.01

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 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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Administrative Information

Test Report Information

REPORT PREPARED FOR:

WaveLynx Technologies Corporation
100 Technology Drive, Suite B130.
Broomfield, CO 80021

Representative: Daniel Field
Customer Reference Number: PO575

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

Viviana Prado
CKC Laboratories, Inc.
5046 Sierra Pines Drive
Mariposa, CA 95338

Project Number: 111609

July 22, 2025

July 30 and 31, 2025, August 20, 21, 22, & 28, 2025
and September 5, 2025

Revision History

Original: Testing of the RFID Access Control Reader, APEX, Model: AX-15 to FCC Part 15 Subpart C Section(s) 15.207 & 15.225 (13.110-14.010 MHz).

Revision A: To remove the modification statement.

Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the equipment provided by the client, 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.
1120 Fulton Place
Fremont, CA 94539

Software Versions

CKC Laboratories Proprietary Software	Version
EMITest Emissions	5.03.20

Site Registration & Accreditation Information

Location	*NIST CB #	FCC	Canada	Japan
Canyon Park, Bothell, WA	US0103	US1024	3082C	A-0136
Brea, CA	US0103	US1024	3082D	A-0136
Fremont, CA	US0103	US1024	3082B	A-0136
Mariposa, CA	US0103	US1024	3082A	A-0136

*CKC's list of NIST designated countries can be found at: <https://standards.gov/cabs/designations.html>

Summary of Results

Standard / Specification: FCC Part 15 Subpart C - 15.225

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

NA = Not Applicable

ISO/IEC 17025 Decision Rule

The equipment sample utilized for testing is selected by the manufacturer. The declaration of pass or fail herein is a binary statement for simple acceptance rule (ILAC G8) based upon assessment to the specification(s) listed above, without consideration of measurement uncertainties. For performance related tests, equipment was monitored for specified criteria identified in that section of testing.

Modifications During Testing

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

Summary of Conditions

None.

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

Emission profile of the EUT rotated along three orthogonal axis was investigated. Recorded data represent worse case emission

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
RFID Access Control Reader, APEX	WaveLynx Technologies Corporation	AX-15	AXR-2U-C-1-4D

Support Equipment:

Device	Manufacturer	Model #	S/N
Digital Power Supply	Korad	KA 3005D	202011032416

Configuration 4

Equipment Tested:

Device	Manufacturer	Model #	S/N
RFID Access Control Reader, APEX	WaveLynx Technologies Corporation	AX-15	SPECTRUM

Support Equipment:

Device	Manufacturer	Model #	S/N
Digital Power Supply	Korad	KA 3005D	202011032416

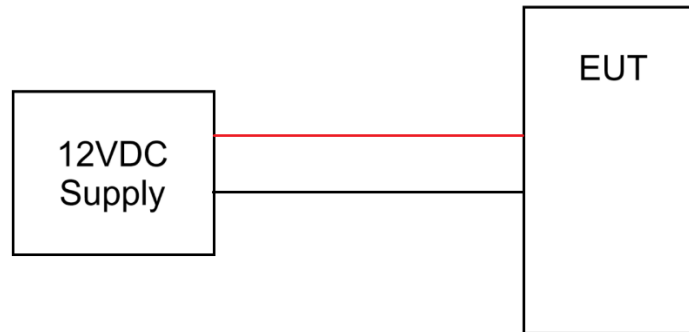
General Product Information:

Description of EUT	
RFID Access Control Reader	
Product Information	Manufacturer-Provided Details
Operating Frequencies Tested:	13.5MHz
Equipment Type:	Stand-Alone Equipment
Maximum Duty Cycle:	EUT is placed into a testing mode with 100% transmission
Modulation Type(s):	13.5MHz: Amplitude Shift Keying (ASK)
Antenna Type(s):	13.56 MHz: PCB Trace Antenna with 3 Turns, 1.4" x 4.2" x 0.62", Inductance 1nH
Antenna Connection Type:	Integral
Nominal Input Voltage:	12VDC
Firmware / Software Version(s):	5.1.8
Firmware / Software Description:	Standard APEX Firmware
Firmware / Software Setting(s):	N/A
Tune-up or Adjustment(s):	N/A
The validity of results is dependent on the stated product details, the accuracy of which the manufacturer assumes full responsibility.	



Block Diagram of Test Setup(s)

Config#	Description of Block Diagram
2/4	EUT is powered by a 12VDC supply. Tested standalone



FCC Part 15 Subpart C

15.215(c) Occupied Bandwidth (20dB BW)

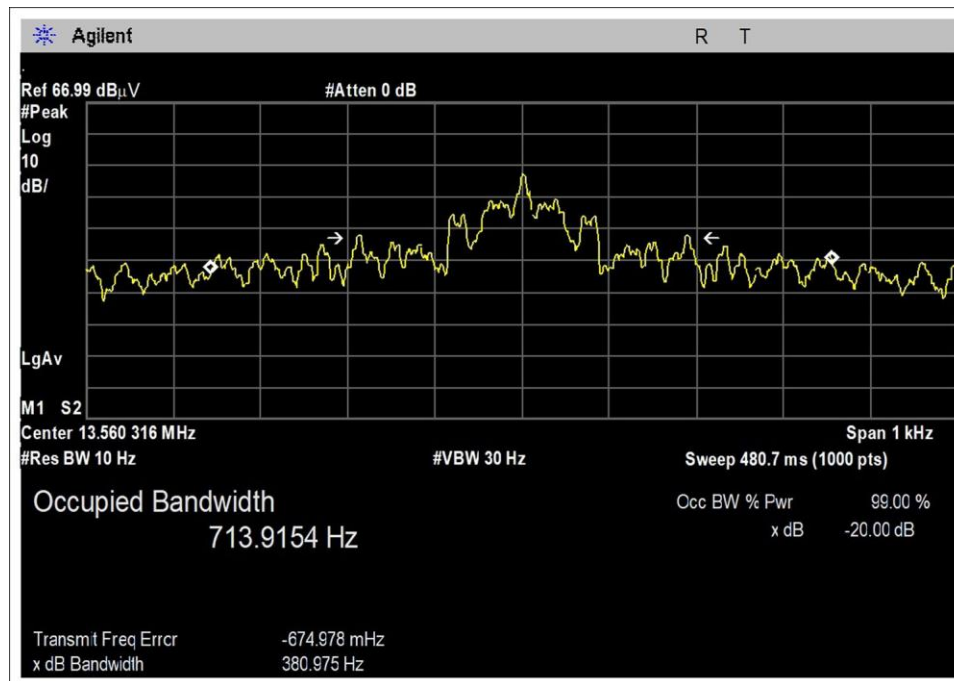
Test Setup/Conditions			
Test Location:	Fremont Chamber 3	Test Engineer:	Jonathan Wharton
Test Method:	ANSI C63.10 (2020)	Test Date(s):	8/20/2025
Configuration:	2		
Test Setup:	Radiated Measurement		

Environmental Conditions			
Temperature (°C)	22.9	Relative Humidity (%):	44

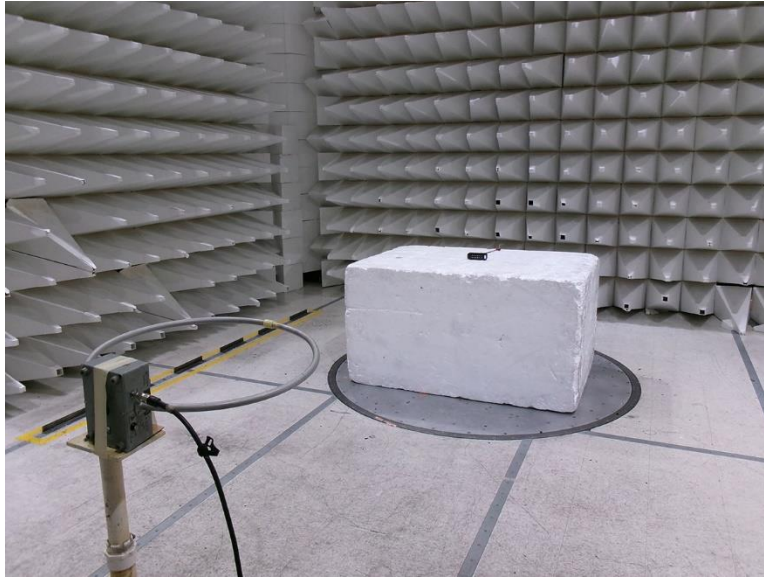
Test Equipment					
Asset#	Description	Manufacturer	Model	Cal Date	Cal Due
02660	Spectrum Analyzer	Agilent	E4446A	1/7/2025	1/7/2027
00314	Loop Antenna	EMCO	6502	5/3/2024	5/3/2026

Test Data Summary					
Frequency (MHz)	Antenna Port	Modulation	Measured (kHz)	Limit (kHz)	Results
13.56	1	ASK	0.381	None	N/A

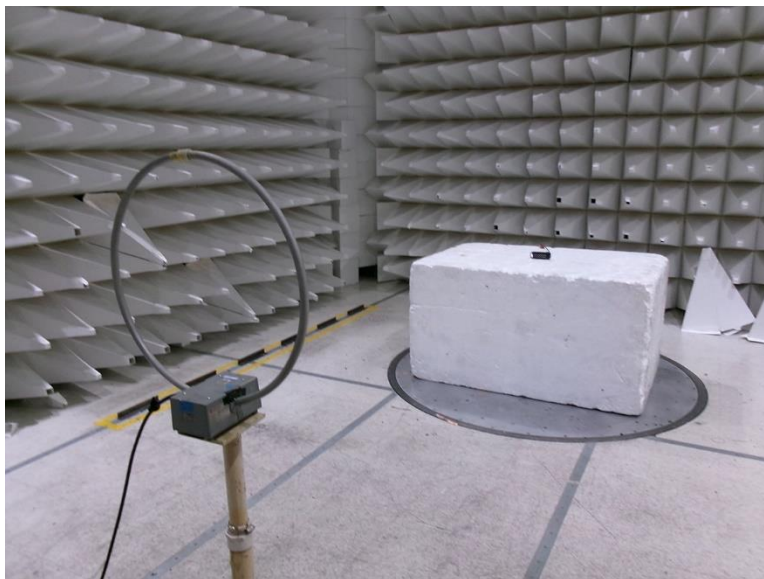
Plot(s)



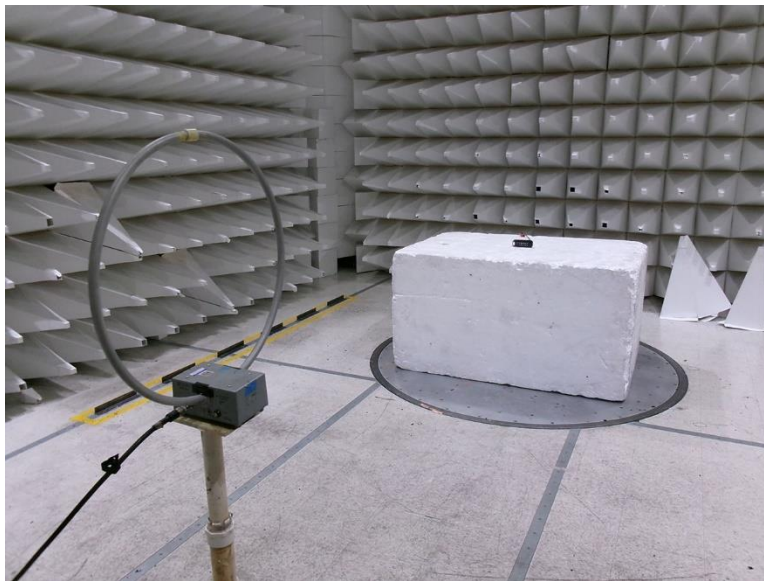
Test Setup Photo(s)



Ground-Facing



Parallel



Perpendicular

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

Test Setup/Conditions			
Test Location:	Fremont Chamber 3	Test Engineer:	Jonathan Wharton
Test Method:	ANSI C63.10 (2020)	Test Date(s):	8/21/2025
Configuration:	2		
Test Setup:	Radiated Emissions		

Environmental Conditions			
Temperature (°C)	22.9	Relative Humidity (%):	44

Test Data Summary - Voltage Variations					
Frequency (MHz)	Modulation / Ant Port	V _{Minimum} (dBuV/m@30m)	V _{Nominal} (dBuV/m@30m)	V _{Maximum} (dBuV/m@30m)	Max Deviation from V _{Nominal} (dB)
13.56	ASK / Integral	29.3	26.8	27.32	2.15

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

Parameter Definitions:

Measurements performed at input voltage according to manufacturer specification.

Parameter	Value
V _{Nominal} :	12 VDC
V _{Minimum} :	4.25 VDC
V _{Maximum} :	27.6 VDC

Test Data Summary – Radiated Field Strength Measurement					
Frequency (MHz)	Modulation	Ant. Type	Measured (dBuV/m @ 30m)	Limit (dBuV/m @ 30m)	Results
13.56	ASK	Integral	27.5	≤84	Pass

Test Setup / Conditions / Data

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **WaveLynx Technologies Corporation**
 Specification: **15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter)**
 Work Order #: **111609** Date: 8/21/2025
 Test Type: **Radiated Scan** Time: 10:24:23
 Tested By: Jonathan Wharton Sequence#: 39
 Software: EMITest 5.03.20

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 2			

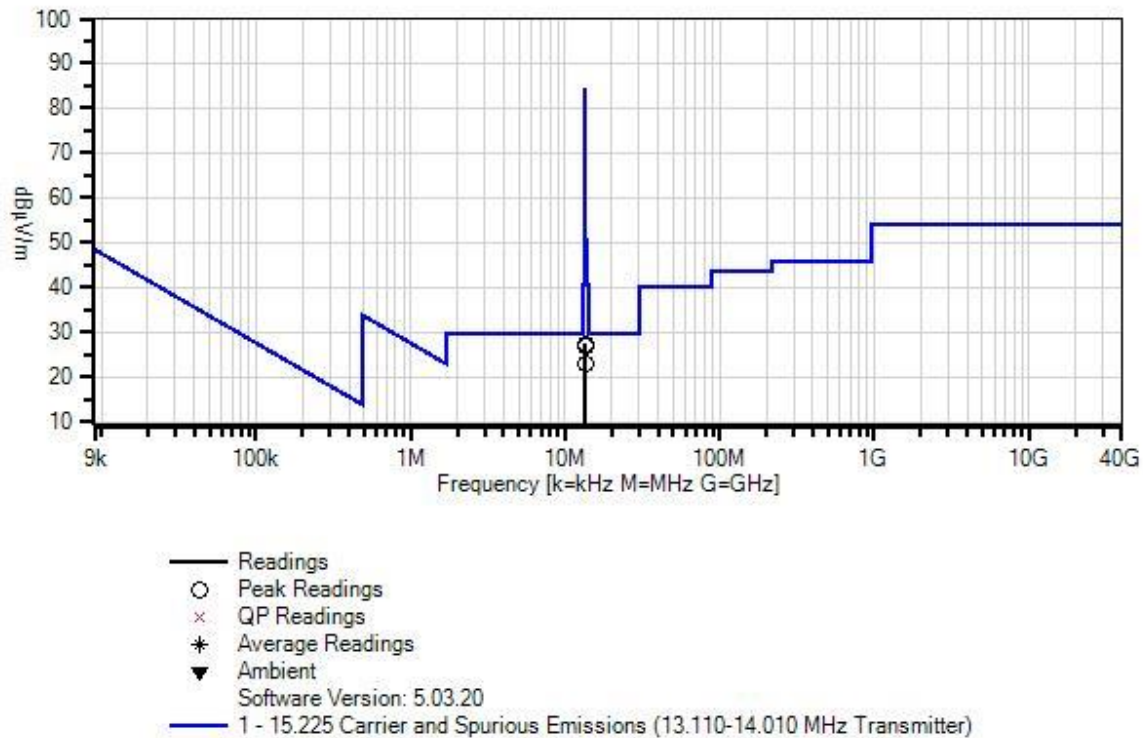
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 2			

Test Conditions / Notes:

Radiated Fundamental Emission Frequency Range: 13.56MHz Method: ANSI C63.10 Environmental Test Conditions: Temperature: 22.9°C Humidity: 44% Pressure: 101.7kPa Highest generated frequency: 2480MHz The EUT is operated as intended. It is powered by a DC power supply at 12VDC. All functions are operational Note EUT Set to transmit at 13.5MHz RBW=VBW=200Hz from 9kHz to 150kHz RBW=VBW=9kHz from 150kHz to 30MHz
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WaveLynx Technologies Corporation WO#: 111609 Sequence#: 39 Date: 8/21/2025
15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter) Test Distance: 3 Meters Ground Facing



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02660	Spectrum Analyzer	E4446A	1/7/2025	1/7/2027
T1	ANP06691	Cable	PE3062-180	3/20/2024	3/20/2026
T2	ANP00987	Cable		1/12/2024	1/12/2026
T3	AN00314	Loop Antenna	6502	5/3/2024	5/3/2026

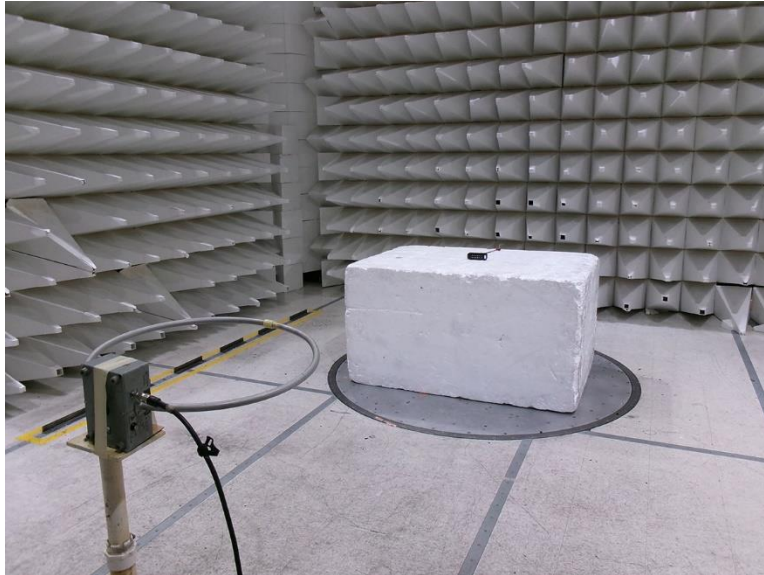
Measurement Data:

Reading listed by margin.

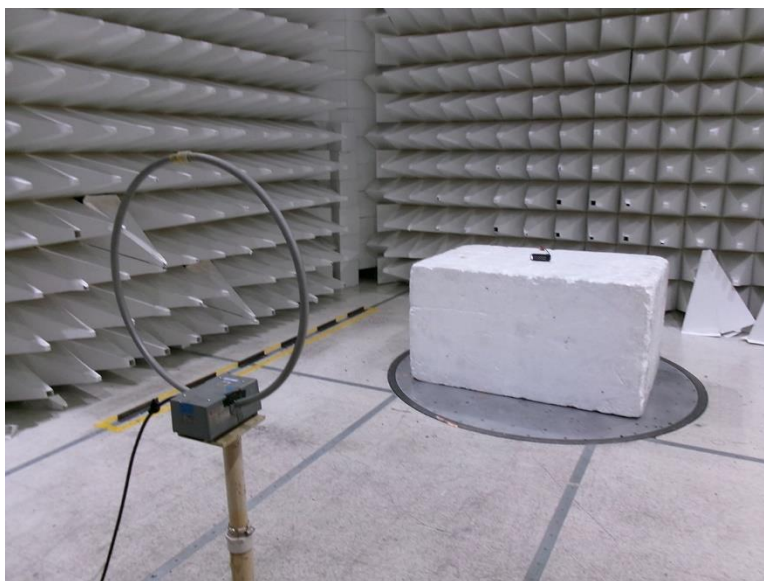
Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	Dist dB	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	13.560M	58.1	+0.1	+0.4	+8.9	-40.0	27.5	84.0	-56.5	Paral
2	13.560M	57.4	+0.1	+0.4	+8.9	-40.0	26.8	84.0	-57.2	Perpe
3	13.560M	53.7	+0.1	+0.4	+8.9	-40.0	23.1	84.0	-60.9	Groun

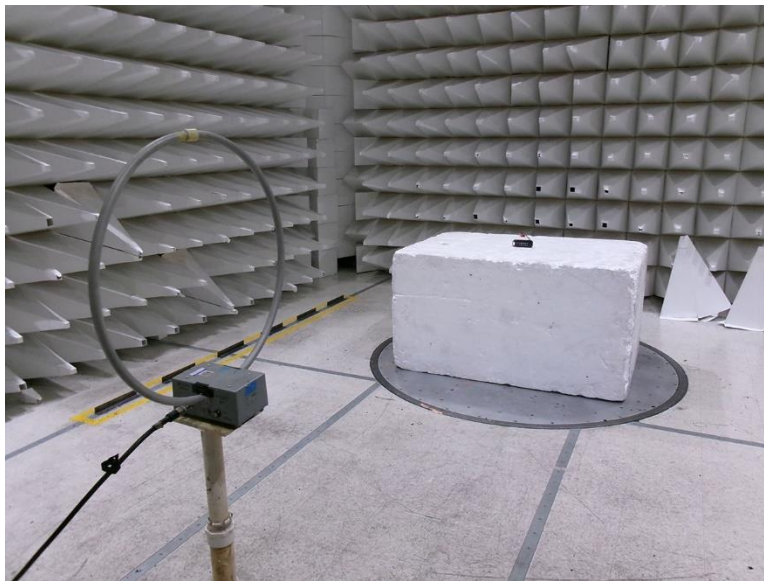
Test Setup Photo(s)



Ground-Facing



Parallel



Perpendicular

15.225(e) Frequency Stability

Test Setup/Conditions

Test Location:	Fremont Bench	Test Engineer:	Jonathan Wharton
Test Method:	ANSI C63.10 (2020)	Test Date(s):	8/28/2025
Configuration:	2		
Test Setup:	Radiated Measurement		

Environmental Conditions

Temperature (°C)	23.6	Relative Humidity (%):	48
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Test Equipment

Asset#	Description	Manufacturer	Model	Cal Date	Cal Due
02721	Temperature Humidity Chamber/Oven	Thermotron	SM-8C	8/27/2025	8/27/2027
02242	Thermometer	Omega	HH-26K	5/29/2025	5/29/2027
02660	Spectrum Analyzer	Agilent	E4446A	1/7/2025	1/7/2027
P06024	Near-Field Probe	CKC	NA	8/27/2025	8/27/2027

Test Data Summary

Temperature (°C)	Voltage	Frequency (MHz)	Deviation (%)	Limit (%)	Results
-20	V _{Nominal}	13.560535	0.00004	±0.01	Pass
-10	V _{Nominal}	13.560654	0.00005	±0.01	
0	V _{Nominal}	13.560417	0.00003	±0.01	
10	V _{Nominal}	13.560616	0.00005	±0.01	
20	V _{Minimum}	13.560582	0.00004	±0.01	
20	V _{Nominal}	13.560506	0.00004	±0.01	
20	V _{Maximum}	13.560638	0.00005	±0.01	
30	V _{Nominal}	13.560542	0.00004	±0.01	
40	V _{Nominal}	13.560391	0.00003	±0.01	
50	V _{Nominal}	13.560452	0.00003	±0.01	
Nominal Frequency:		13.560000			

Parameter Definitions:

Measurements performed at input voltage according to manufacturer specification.

Parameter	Value
V _{Nominal} :	12 VDC
V _{Minimum} :	4.25 VDC
V _{Maximum} :	27.6 VDC

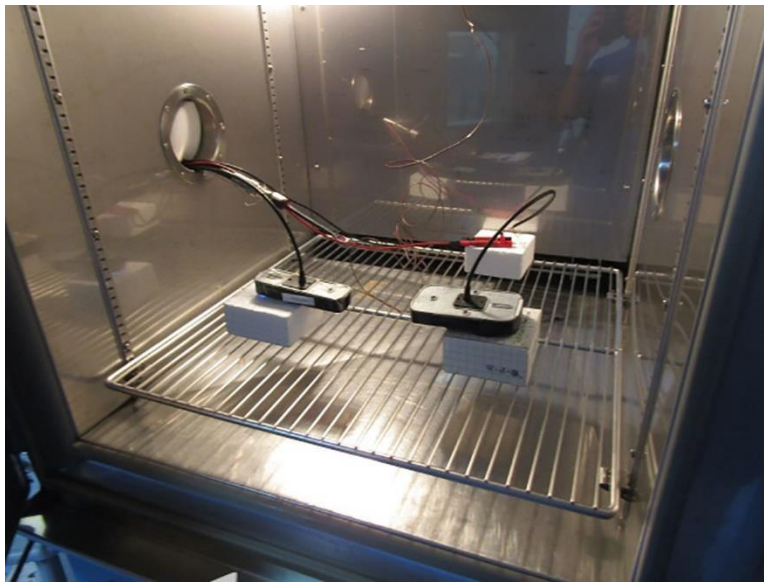
Test Setup Photo(s)



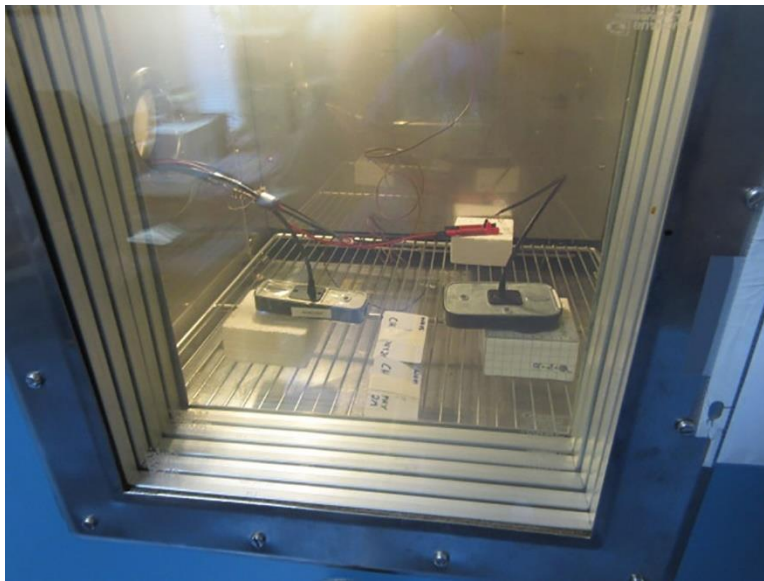
Temperature-Voltage Extremes, Setup View 1



Temperature-Voltage Extremes, Setup View 2



Temperature-Voltage Extremes, Setup View 3



Temperature-Voltage Extremes, Setup View 4

15.225(d) Radiated Emissions & Band Edge

Test Setup/Conditions			
Test Location:	Fremont Chamber 3	Test Engineer:	Jonathan Wharton
Test Method:	ANSI C63.10 (2020)	Test Date(s):	7/30/2025 and 8/21-22/2025
Configuration:	2		

Environmental Conditions			
Temperature (°C)	22.9	Relative Humidity (%):	44

Test Setup / Conditions / Data

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **WaveLynx Technologies Corporation**
 Specification: **15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter)**
 Work Order #: **111609** Date: 8/21/2025
 Test Type: **Radiated Scan** Time: 10:43:56
 Tested By: Jonathan Wharton Sequence#: 40
 Software: EMITest 5.03.20

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 2			

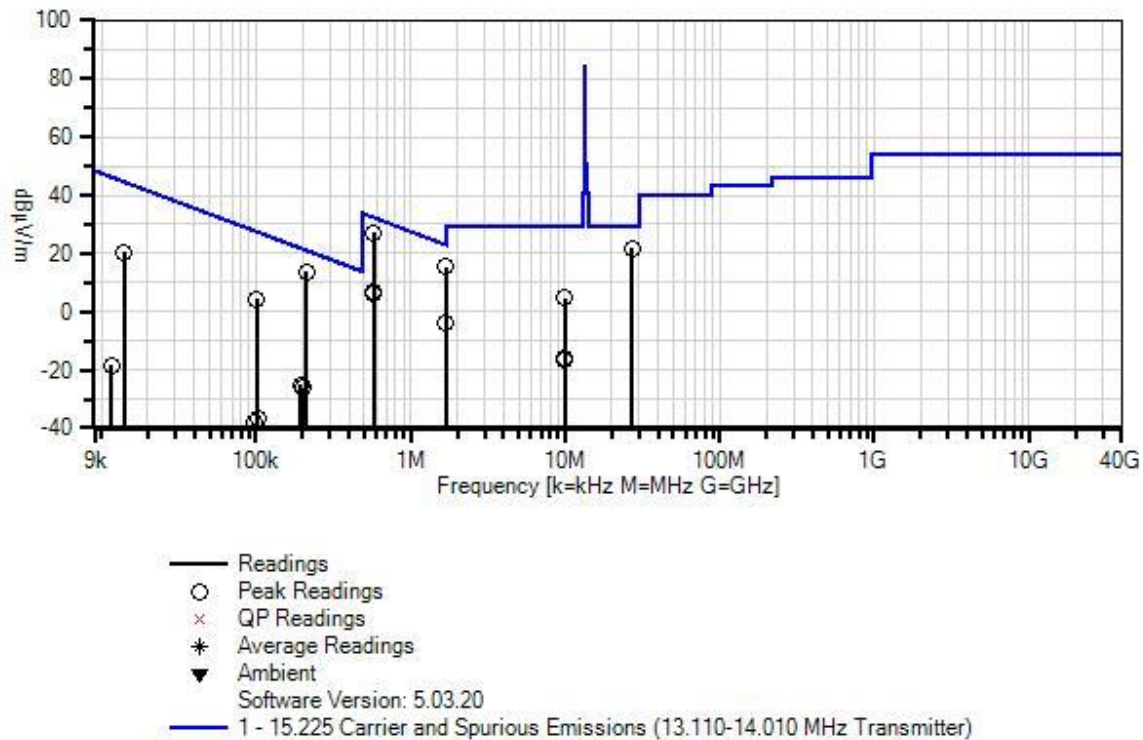
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 2			

Test Conditions / Notes:

Radiated Spurious Emissions Frequency Range: 9kHz-30MHz Method: ANSI C63.10 Environmental Test Conditions: Temperature: 22.9°C Humidity: 44% Pressure: 101.7kPa Highest generated frequency: 2480MHz The EUT is operated as intended. It is powered by a DC power supply at 12VDC. All functions are operational Note EUT does not have access to a receive only mode, EUT in normal operation.

WaveLynx Technologies Corporation WO#: 111609 Sequence#: 40 Date: 8/21/2025
15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter) Test Distance: 3 Meters Ground Facing



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02660	Spectrum Analyzer	E4446A	1/7/2025	1/7/2027
T1	ANP06691	Cable	PE3062-180	3/20/2024	3/20/2026
T2	ANP00987	Cable		1/12/2024	1/12/2026
T3	AN00314	Loop Antenna	6502	5/3/2024	5/3/2026

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB		Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	578.790k	37.1	+0.0	+0.1	+9.8		-20.0	27.0	32.3	-5.3	Groun
2	212.960k	43.9	+0.0	+0.0	+9.7		-40.0	13.6	21.0	-7.4	Groun
3	1.690M	25.6	+0.0	+0.1	+9.8		-20.0	15.5	23.0	-7.5	Groun
4	27.121M	35.1	+0.2	+0.6	+5.9		-20.0	21.8	29.5	-7.7	Groun
5	101.005k	34.6	+0.0	+0.0	+9.9		-40.0	4.5	27.5	-23.0	Groun
6	13.965k	45.1	+0.0	+0.0	+15.4		-40.0	20.5	44.7	-24.2	Groun
7	10.000M	15.5	+0.1	+0.3	+8.7		-20.0	4.6	29.5	-24.9	Groun
8	572.930k	36.7	+0.0	+0.1	+9.8		-40.0	6.6	32.4	-25.8	Perpe
9	574.412k	36.0	+0.0	+0.1	+9.8		-40.0	5.9	32.4	-26.5	Paral
10	1.697M	26.2	+0.0	+0.1	+9.8		-40.0	-3.9	22.9	-26.8	Paral
11	1.694M	26.2	+0.0	+0.1	+9.8		-40.0	-3.9	23.0	-26.9	Perpe
12	10.005M	15.1	+0.1	+0.3	+8.7		-40.0	-15.8	29.5	-45.3	Paral
13	10.000M	14.4	+0.1	+0.3	+8.7		-40.0	-16.5	29.5	-46.0	Perpe
14	193.800k	45.3	+0.0	+0.0	+9.7		-80.0	-25.0	21.9	-46.9	Perpe
15	203.360k	44.3	+0.0	+0.0	+9.7		-80.0	-26.0	21.4	-47.4	Paral
16	101.755k	33.6	+0.0	+0.0	+9.9		-80.0	-36.5	27.4	-63.9	Paral
17	11.610k	44.8	+0.0	+0.0	+16.8		-80.0	-18.4	46.3	-64.7	Paral
18	98.045k	32.1	+0.0	+0.0	+9.9		-80.0	-38.0	27.8	-65.8	Perpe

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **WaveLynx Technologies Corporation**
 Specification: **15.209 Radiated Emissions**
 Work Order #: **111609** Date: 8/22/2025
 Test Type: **Radiated Scan** Time: 11:00:11
 Tested By: Jonathan Wharton Sequence#: 47
 Software: EMITest 5.03.20

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 4			

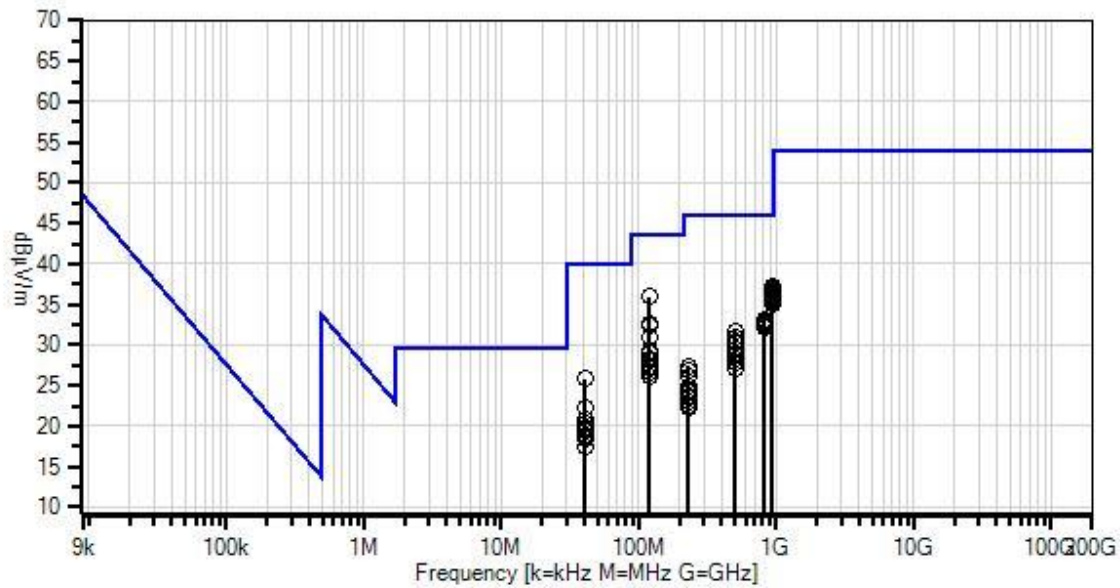
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 4			

Test Conditions / Notes:

Radiated Spurious Emissions Frequency Range: 30MHz-1GHz Method: ANSI C63.10 Test Environment Conditions: Temperature: 22.7°C Humidity: 45% Pressure: 101.6kPa Highest generated frequency: 2480MHz The EUT is operated as intended. It is powered by a DC power supply at 12VDC. All functions are operational Note Low Channel (1MHz/2MHz) / Mid Channel (1MHz/2MHz) / High Channel (1MHz/2MHz) / 125kHz / 13.5MHz

WaveLynx Technologies Corporation WO#: 111609 Sequence#: 47 Date: 8/22/2025
15.209 Radiated Emissions Test Distance: 3 Meters Horiz



— Readings
* Average Readings
— 1 - 15.209 Radiated Emissions
○ Peak Readings
▼ Ambient
× QP Readings
Software Version: 5.03.20

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN01995	Biconilog Antenna	CBL6111C	5/16/2024	5/16/2026
T2	ANP00987	Cable		1/12/2024	1/12/2026
T3	ANP06691	Cable	PE3062-180	3/20/2024	3/20/2026
T4	ANP07508	Preamp	310N	4/5/2024	4/5/2026
T5	ANP01187	Cable	CNT-195	7/3/2024	7/3/2026
	AN02660	Spectrum Analyzer	E4446A	1/7/2025	1/7/2027

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	120.330M	48.2	+17.7 +0.3	+1.4	+0.4	-32.0	+0.0	36.0	43.5 125kHz Transmitter	-7.5	Horiz
2	938.281M	30.9	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	37.2	46.0 13.56MHz Transmitter	-8.8	Vert
3	938.226M	30.9	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	37.2	46.0 BLE High Channel (1MHz)	-8.8	Vert
4	938.265M	30.6	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	36.9	46.0 BLE Low Channel (2MHz)	-9.1	Horiz
5	938.324M	30.4	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	36.7	46.0 BLE Low Channel (1MHz)	-9.3	Vert
6	938.166M	30.4	+30.4 +1.0	+4.6	+1.3	-31.1	+0.0	36.6	46.0 BLE High Channel (2MHz)	-9.4	Horiz
7	938.087M	30.2	+30.4 +1.0	+4.6	+1.3	-31.1	+0.0	36.4	46.0 BLE Mid Channel (2MHz)	-9.6	Horiz
8	938.230M	30.1	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	36.4	46.0 125kHz Transmitter	-9.6	Horiz
9	938.329M	29.9	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	36.2	46.0 BLE Low Channel (1MHz)	-9.8	Horiz
10	938.200M	29.7	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	36.0	46.0 125kHz Transmitter	-10.0	Vert
11	938.107M	29.7	+30.4 +1.0	+4.6	+1.3	-31.1	+0.0	35.9	46.0 BLE Mid Channel (2MHz)	-10.1	Vert
12	938.218M	29.4	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	35.7	46.0 13.56MHz Transmitter	-10.3	Horiz
13	938.127M	29.3	+30.4 +1.0	+4.6	+1.3	-31.1	+0.0	35.5	46.0 BLE Mid Channel (1MHz)	-10.5	Horiz
14	938.127M	29.3	+30.4 +1.0	+4.6	+1.3	-31.1	+0.0	35.5	46.0 BLE Mid Channel (1MHz)	-10.5	Vert
15	938.118M	29.2	+30.4 +1.0	+4.6	+1.3	-31.1	+0.0	35.4	46.0 BLE Low Channel (2MHz)	-10.6	Vert
16	938.070M	29.2	+30.4 +1.0	+4.6	+1.3	-31.1	+0.0	35.4	46.0 BLE High Channel (1MHz)	-10.6	Horiz

17	938.096M	28.9	+30.4 +1.0	+4.6	+1.3	-31.1	+0.0	35.1	46.0 BLE High Channel (2MHz)	-10.9	Vert
18	120.335M	44.8	+17.7 +0.3	+1.4	+0.4	-32.0	+0.0	32.6	43.5 125kHz Transmitter	-10.9	Vert
19	120.253M	44.6	+17.7 +0.3	+1.4	+0.4	-32.0	+0.0	32.4	43.5 13.56MHz Transmitter	-11.1	Vert
20	120.260M	43.2	+17.7 +0.3	+1.4	+0.4	-32.0	+0.0	31.0	43.5 BLE Low Channel (1MHz)	-12.5	Vert
21	120.300M	43.1	+17.7 +0.3	+1.4	+0.4	-32.0	+0.0	30.9	43.5 BLE Low Channel (2MHz)	-12.6	Vert
22	823.832M	30.2	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	33.1	46.0 BLE Low Channel (2MHz)	-12.9	Vert
23	823.833M	30.2	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	33.1	46.0 13.56MHz Transmitter	-12.9	Horiz
24	823.860M	30.2	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	33.1	46.0 BLE High Channel (2MHz)	-12.9	Horiz
25	823.849M	30.1	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	33.0	46.0 125kHz Transmitter	-13.0	Vert
26	823.780M	30.0	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.9	46.0 125kHz Transmitter	-13.1	Horiz
27	823.886M	29.9	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.8	46.0 13.56MHz Transmitter	-13.2	Vert
28	823.684M	29.9	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.8	46.0 BLE Mid Channel (1MHz)	-13.2	Vert
29	823.906M	29.9	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.8	46.0 BLE Low Channel (1MHz)	-13.2	Vert
30	823.849M	29.8	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.7	46.0 BLE Low Channel (2MHz)	-13.3	Horiz
31	823.811M	29.6	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.5	46.0 BLE Low Channel (1MHz)	-13.5	Horiz
32	823.848M	29.6	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.5	46.0 BLE Mid Channel (2MHz)	-13.5	Horiz
33	823.853M	29.5	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.4	46.0 BLE Mid Channel (2MHz)	-13.6	Vert
34	823.918M	29.3	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.2	46.0 BLE High Channel (1MHz)	-13.8	Horiz

35	823.741M	29.3	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.2	46.0 BLE Mid Channel (1MHz)	-13.8	Horiz
36	823.818M	29.3	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.2	46.0 BLE High Channel (2MHz)	-13.8	Vert
37	823.837M	29.3	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.2	46.0 BLE High Channel (1MHz)	-13.8	Vert
38	40.678M	37.8	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	25.8	40.0 125kHz Transmitter	-14.2	Horiz
39	120.341M	41.4	+17.7 +0.3	+1.4	+0.4	-32.0	+0.0	29.2	43.5 BLE Mid Channel (2MHz)	-14.3	Vert
40	500.340M	34.8	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	31.7	46.0 BLE Mid Channel (2MHz)	-14.3	Horiz
41	120.285M	41.2	+17.7 +0.3	+1.4	+0.4	-32.0	+0.0	29.0	43.5 BLE Mid Channel (1MHz)	-14.5	Vert
42	500.329M	34.1	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	31.0	46.0 BLE Mid Channel (1MHz)	-15.0	Horiz
43	500.335M	34.1	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	31.0	46.0 BLE Low Channel (1MHz)	-15.0	Horiz
44	500.328M	34.0	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	30.9	46.0 BLE Low Channel (2MHz)	-15.1	Horiz
45	500.295M	34.0	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	30.9	46.0 BLE High Channel (1MHz)	-15.1	Horiz
46	120.256M	40.4	+17.7 +0.3	+1.4	+0.4	-32.0	+0.0	28.2	43.5 BLE High Channel (1MHz)	-15.3	Vert
47	120.278M	40.2	+17.7 +0.3	+1.4	+0.4	-32.0	+0.0	28.0	43.5 BLE High Channel (2MHz)	-15.5	Vert
48	500.325M	33.6	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	30.5	46.0 13.56MHz Transmitter	-15.5	Horiz
49	500.319M	33.3	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	30.2	46.0 BLE High Channel (2MHz)	-15.8	Horiz
50	120.295M	39.6	+17.7 +0.3	+1.4	+0.4	-32.0	+0.0	27.4	43.5 BLE High Channel (2MHz)	-16.1	Horiz
51	120.334M	39.3	+17.7 +0.3	+1.4	+0.4	-32.0	+0.0	27.1	43.5 BLE Mid Channel (2MHz)	-16.4	Horiz

52	120.282M	39.2	+17.7 +0.3	+1.4	+0.4	-32.0	+0.0	27.0	43.5 BLE High Channel (1MHz)	-16.5	Horiz
53	500.330M	32.5	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	29.4	46.0 125kHz Transmitter	-16.6	Horiz
54	120.292M	38.9	+17.7 +0.3	+1.4	+0.4	-32.0	+0.0	26.7	43.5 BLE Mid Channel (1MHz)	-16.8	Horiz
55	500.322M	32.2	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	29.1	46.0 125kHz Transmitter	-16.9	Vert
56	120.314M	38.7	+17.7 +0.3	+1.4	+0.4	-32.0	+0.0	26.5	43.5 13.56MHz Transmitter	-17.0	Horiz
57	500.309M	31.9	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	28.8	46.0 BLE Low Channel (2MHz)	-17.2	Vert
58	120.291M	38.3	+17.7 +0.3	+1.4	+0.4	-32.0	+0.0	26.1	43.5 BLE Low Channel (2MHz)	-17.4	Horiz
59	120.324M	38.2	+17.7 +0.3	+1.4	+0.4	-32.0	+0.0	26.0	43.5 BLE Low Channel (1MHz)	-17.5	Horiz
60	500.323M	31.5	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	28.4	46.0 13.56MHz Transmitter	-17.6	Vert
61	500.376M	31.4	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	28.3	46.0 BLE Mid Channel (2MHz)	-17.7	Vert
62	40.690M	34.2	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	22.2	40.0 BLE Low Channel (1MHz)	-17.8	Horiz
63	40.652M	34.2	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	22.2	40.0 13.56MHz Transmitter	-17.8	Horiz
64	500.305M	30.9	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	27.8	46.0 BLE High Channel (1MHz)	-18.2	Vert
65	500.328M	30.8	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	27.7	46.0 BLE Mid Channel (1MHz)	-18.3	Vert
66	500.335M	30.8	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	27.7	46.0 BLE High Channel (2MHz)	-18.3	Vert
67	231.083M	40.1	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	27.4	46.0 13.56MHz Transmitter	-18.6	Vert
68	500.285M	30.2	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	27.1	46.0 BLE Low Channel (1MHz)	-18.9	Vert
69	231.080M	39.6	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	26.9	46.0 125kHz Transmitter	-19.1	Horiz

70	231.010M	39.6	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	26.9	46.0 125kHz Transmitter	-19.1	Vert
71	40.697M	32.8	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	20.8	40.0 BLE Mid Channel (1MHz)	-19.2	Horiz
72	40.669M	32.3	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	20.3	40.0 BLE Low Channel (1MHz)	-19.7	Vert
73	231.051M	38.7	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	26.0	46.0 BLE Low Channel (2MHz)	-20.0	Vert
74	231.027M	38.7	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	26.0	46.0 BLE Low Channel (1MHz)	-20.0	Vert
75	40.682M	31.9	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	19.9	40.0 BLE Low Channel (2MHz)	-20.1	Horiz
76	40.698M	31.7	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	19.7	40.0 125kHz Transmitter	-20.3	Vert
77	40.671M	31.6	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	19.6	40.0 BLE Low Channel (2MHz)	-20.4	Vert
78	40.657M	31.6	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	19.6	40.0 BLE High Channel (2MHz)	-20.4	Horiz
79	40.697M	31.4	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	19.4	40.0 13.56MHz Transmitter	-20.6	Vert
80	40.676M	30.9	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	18.9	40.0 BLE Mid Channel (1MHz)	-21.1	Vert
81	230.971M	37.6	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	24.9	46.0 BLE High Channel (2MHz)	-21.1	Vert
82	40.672M	30.6	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	18.6	40.0 BLE High Channel (2MHz)	-21.4	Vert
83	231.036M	37.2	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	24.5	46.0 BLE Mid Channel (2MHz)	-21.5	Vert
84	40.732M	30.5	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	18.5	40.0 BLE High Channel (1MHz)	-21.5	Horiz
85	230.973M	37.1	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	24.4	46.0 BLE High Channel (2MHz)	-21.6	Horiz
86	231.081M	37.0	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	24.3	46.0 BLE Mid Channel (1MHz)	-21.7	Vert
87	40.666M	30.3	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	18.3	40.0 BLE Mid Channel (2MHz)	-21.7	Vert

88	231.033M	36.5	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	23.8	46.0	-22.2	Vert
									BLE High Channel (1MHz)		
89	231.033M	36.5	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	23.8	46.0	-22.2	Horiz
									BLE Mid Channel (2MHz)		
90	231.067M	36.4	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	23.7	46.0	-22.3	Horiz
									BLE High Channel (1MHz)		
91	40.702M	29.5	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	17.5	40.0	-22.5	Vert
									BLE High Channel (1MHz)		
92	230.984M	36.1	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	23.4	46.0	-22.6	Horiz
									BLE Low Channel (2MHz)		
93	40.674M	29.4	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	17.4	40.0	-22.6	Horiz
									BLE Mid Channel (2MHz)		
94	231.008M	35.7	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	23.0	46.0	-23.0	Horiz
									BLE Mid Channel (1MHz)		
95	231.054M	35.1	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	22.4	46.0	-23.6	Horiz
									BLE Low Channel (1MHz)		
96	231.048M	35.0	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	22.3	46.0	-23.7	Horiz
									13.56MHz Transmitter		

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **WaveLynx Technologies Corporation**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **111609** Date: 7/30/2025
 Test Type: **Radiated Scan** Time: 09:25:12
 Tested By: Jonathan Wharton Sequence#: 16
 Software: EMITest 5.03.20

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 4			

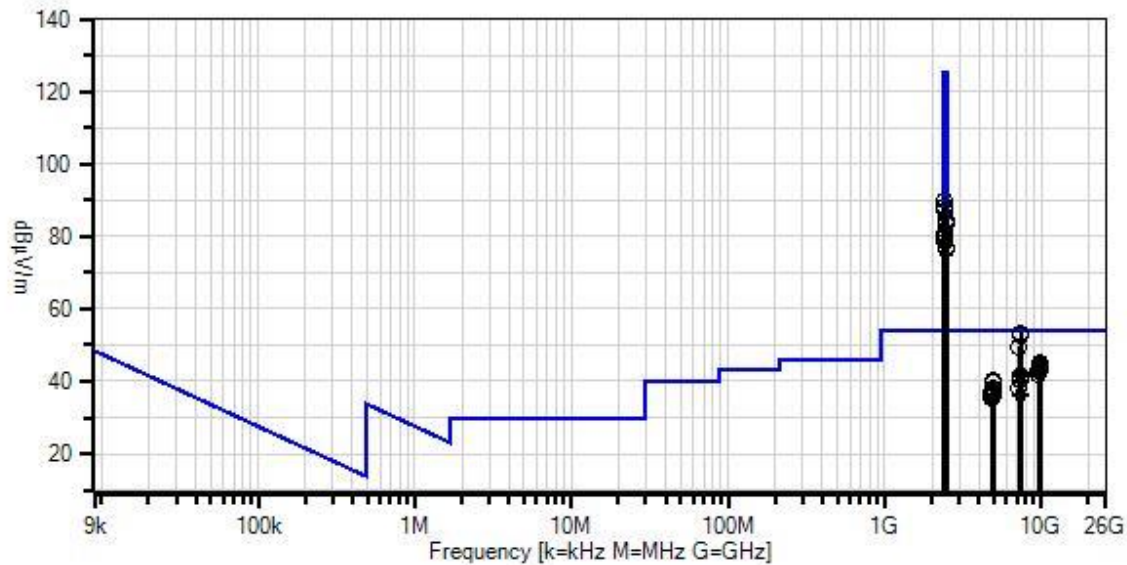
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 4			

Test Conditions / Notes:

Radiated Spurious Emissions Frequency Range: 1GHz to 12GHz Method: ANSI C63.10 Test Environment Conditions: Temperature: 22.7°C Humidity: 45% Pressure: 101.6kPa Highest generated frequency: 2480MHz The EUT is operated as intended. It is powered by a DC power supply at 12VDC. All functions are operational Note Low Channel (1MHz/2MHz) / Mid Channel (1MHz/2MHz) / High Channel (1MHz/2MHz) / 125kHz / 13.5MHz
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WaveLynx Technologies Corporation WO#: 111609 Sequence#: 16 Date: 7/30/2025
15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Vert



— Readings
× QP Readings
▼ Ambient
— 1 - 15.247(d) / 15.209 Radiated Spurious Emissions

○ Peak Readings
* Average Readings
Software Version: 5.03.20

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157ANSI	Horn Antenna	3115	2/12/2025	2/12/2027
T2	ANP06904	Cable	32022-29094K- 29094K-36TC	1/9/2024	1/9/2026
T3	AN03309	High Pass Filter	11SH10- 3000/T10000- O/O	4/28/2025	4/28/2027
T4	AN03861	Preamp	BZRY- 00101800- 251057-202222	2/11/2025	2/11/2027
T5	ANP01210	Cable	FSJ1P-50A-4A	1/9/2024	1/9/2026
T6	AN03302	Cable	32026-29094K- 29094K-72TC	1/9/2024	1/9/2026
	AN02660	Spectrum Analyzer	E4446A	1/7/2025	1/7/2027

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	7440.100M	71.0	+36.4 +4.6	+1.4 +2.6	+0.3	-62.9	+0.0	53.4	54.0 High Channel (1MHz)	-0.6	Horiz
2	7440.100M	70.3	+36.4 +4.6	+1.4 +2.6	+0.3	-62.9	+0.0	52.7	54.0 High Channel (1MHz)	-1.3	Vert
3	7206.760M	68.0	+35.4 +4.5	+1.4 +2.5	+0.3	-62.5	+0.0	49.6	54.0 Low Channel (2MHz)	-4.4	Horiz
4	9920.820M	59.4	+38.1 +5.8	+1.7 +3.0	+0.3	-63.1	+0.0	45.2	54.0 High Channel (2MHz)	-8.8	Vert
5	9781.920M	59.2	+37.8 +5.9	+1.6 +3.0	+0.3	-63.0	+0.0	44.8	54.0 Mid Channel (2MHz)	-9.2	Vert
6	9781.700M	58.8	+37.8 +5.9	+1.6 +3.0	+0.3	-63.0	+0.0	44.4	54.0 Mid Channel (1MHz)	-9.6	Horiz
7	9920.100M	58.0	+38.1 +5.8	+1.7 +3.0	+0.3	-63.1	+0.0	43.8	54.0 High Channel (1MHz)	-10.2	Vert
8	9920.100M	58.0	+38.1 +5.8	+1.7 +3.0	+0.3	-63.1	+0.0	43.8	54.0 High Channel (1MHz)	-10.2	Horiz
9	9920.820M	57.5	+38.1 +5.8	+1.7 +3.0	+0.3	-63.1	+0.0	43.3	54.0 High Channel (2MHz)	-10.7	Horiz
10	9608.740M	58.2	+37.4 +5.9	+1.6 +3.0	+0.3	-63.2	+0.0	43.2	54.0 Low Channel (2MHz)	-10.8	Horiz
11	9608.740M	58.2	+37.4 +5.9	+1.6 +3.0	+0.3	-63.2	+0.0	43.2	54.0 Low Channel (2MHz)	-10.8	Vert
12	9781.860M	57.2	+37.8 +5.9	+1.6 +3.0	+0.3	-63.0	+0.0	42.8	54.0 Mid Channel (2MHz)	-11.2	Horiz
13	9608.000M	57.7	+37.4 +5.9	+1.6 +3.0	+0.3	-63.2	+0.0	42.7	54.0 Low Channel (1MHz)	-11.3	Vert
14	7278.100M Ave	60.3	+35.9 +4.5	+1.4 +2.6	+0.3	-62.8	+0.0	42.2	54.0 Mid Channel (1MHz)	-11.8	Horiz
^	7278.100M	72.4	+35.9 +4.5	+1.4 +2.6	+0.3	-62.8	+0.0	54.3	54.0 Mid Channel (1MHz)	+0.3	Horiz

16	7440.000M Ave	59.6	+36.4 +4.6	+1.4 +2.6	+0.3	-62.9	+0.0	42.0	54.0 High Channel (1MHz)	-12.0	Horiz
17	9606.000M	56.7	+37.4 +5.9	+1.6 +3.0	+0.3	-63.2	+0.0	41.7	54.0 Low Channel (1MHz)	-12.3	Horiz
18	7329.920M	59.1	+36.3 +4.6	+1.4 +2.6	+0.3	-62.7	+0.0	41.6	54.0 Mid Channel (2MHz)	-12.4	Vert
19	7440.000M Ave	59.0	+36.4 +4.6	+1.4 +2.6	+0.3	-62.9	+0.0	41.4	54.0 High Channel (1MHz)	-12.6	Vert
20	4960.100M	63.5	+32.7 +3.6	+1.1 +2.0	+0.3	-62.9	+0.0	40.3	54.0 High Channel (1MHz)	-13.7	Vert
21	7329.860M	57.6	+36.3 +4.6	+1.4 +2.6	+0.3	-62.7	+0.0	40.1	54.0 Mid Channel (2MHz)	-13.9	Horiz
22	4877.920M	62.8	+33.0 +3.6	+1.1 +2.0	+0.3	-63.0	+0.0	39.8	54.0 Mid Channel (2MHz)	-14.2	Vert
23	7206.000M	56.6	+35.4 +4.5	+1.4 +2.5	+0.3	-62.5	+0.0	38.2	54.0 Low Channel (1MHz)	-15.8	Vert
24	4877.860M	61.0	+33.0 +3.6	+1.1 +2.0	+0.3	-63.0	+0.0	38.0	54.0 Mid Channel (2MHz)	-16.0	Horiz
25	4960.820M	60.6	+32.7 +3.6	+1.1 +2.0	+0.3	-62.9	+0.0	37.4	54.0 High Channel (2MHz)	-16.6	Vert
26	4960.100M	60.2	+32.7 +3.6	+1.1 +2.0	+0.3	-62.9	+0.0	37.0	54.0 High Channel (2MHz)	-17.0	Horiz
27	4804.000M	60.2	+32.6 +3.6	+1.1 +2.0	+0.3	-63.0	+0.0	36.8	54.0 Low Channel (2MHz)	-17.2	Vert
28	4804.000M	60.2	+32.6 +3.6	+1.1 +2.0	+0.3	-63.0	+0.0	36.8	54.0 Low Channel (1MHz)	-17.2	Vert
29	7440.820M Ave	54.2	+36.4 +4.6	+1.4 +2.6	+0.3	-62.9	+0.0	36.6	54.0 High Channel (2MHz)	-17.4	Horiz
^	7440.820M	71.0	+36.4 +4.6	+1.4 +2.6	+0.3	-62.9	+0.0	53.4	54.0 High Channel (2MHz)	-0.6	Horiz
31	4851.620M	59.0	+33.0 +3.6	+1.1 +2.0	+0.3	-62.8	+0.0	36.2	54.0 Mid Channel (1MHz)	-17.8	Horiz

32	7440.820M Ave	53.7	+36.4 +4.6	+1.4 +2.6	+0.3	-62.9	+0.0	36.1	54.0 High Channel (2MHz)	-17.9	Vert
^	7440.820M	69.5	+36.4 +4.6	+1.4 +2.6	+0.3	-62.9	+0.0	51.9	54.0 High Channel (2MHz)	-2.1	Vert
34	4803.780M	59.4	+32.6 +3.6	+1.1 +2.0	+0.3	-63.0	+0.0	36.0	54.0 Low Channel (1MHz)	-18.0	Horiz
35	4960.100M	58.9	+32.7 +3.6	+1.1 +2.0	+0.3	-62.9	+0.0	35.7	54.0 High Channel (1MHz)	-18.3	Horiz
36	4804.760M	59.0	+32.6 +3.6	+1.1 +2.0	+0.3	-63.0	+0.0	35.6	54.0 Low Channel (2MHz)	-18.4	Horiz
37	2425.380M	85.0	+28.3 +2.5	+0.8 +1.4	+33.7	-62.1	+0.0	89.6	125.2 Mid Channel (2MHz)	-35.6	Vert
38	2402.000M	82.4	+28.1 +2.5	+0.7 +1.4	+35.2	-62.2	+0.0	88.1	125.2 Low Channel (1MHz)	-37.1	Vert
39	2402.000M	81.5	+28.1 +2.5	+0.7 +1.4	+35.2	-62.2	+0.0	87.2	125.2 Low Channel (2MHz)	-38.0	Vert
40	2480.100M	84.7	+28.4 +2.6	+0.8 +1.4	+29.1	-62.3	+0.0	84.7	125.2 High Channel (1MHz)	-40.5	Vert
41	2479.220M	83.3	+28.4 +2.6	+0.8 +1.4	+29.1	-62.3	+0.0	83.3	125.2 High Channel (2MHz)	-41.9	Vert
42	2401.780M	74.7	+28.1 +2.5	+0.7 +1.4	+35.3	-62.2	+0.0	80.5	125.2 Low Channel (1MHz)	-44.7	Horiz
43	2425.860M	75.8	+28.3 +2.5	+0.8 +1.4	+33.7	-62.1	+0.0	80.4	125.2 Mid Channel (1MHz)	-44.8	Horiz
44	2425.820M	74.9	+28.3 +2.5	+0.8 +1.4	+33.7	-62.1	+0.0	79.5	125.2 Mid Channel (2MHz)	-45.7	Horiz
45	2402.280M	72.9	+28.1 +2.5	+0.7 +1.4	+35.2	-62.2	+0.0	78.6	125.2 Low Channel (2MHz)	-46.6	Horiz
46	2480.100M	76.7	+28.4 +2.6	+0.8 +1.4	+29.1	-62.3	+0.0	76.7	125.2 High Channel (2MHz)	-48.5	Horiz
47	2480.100M	76.4	+28.4 +2.6	+0.8 +1.4	+29.1	-62.3	+0.0	76.4	125.2 High Channel (1MHz)	-48.8	Horiz

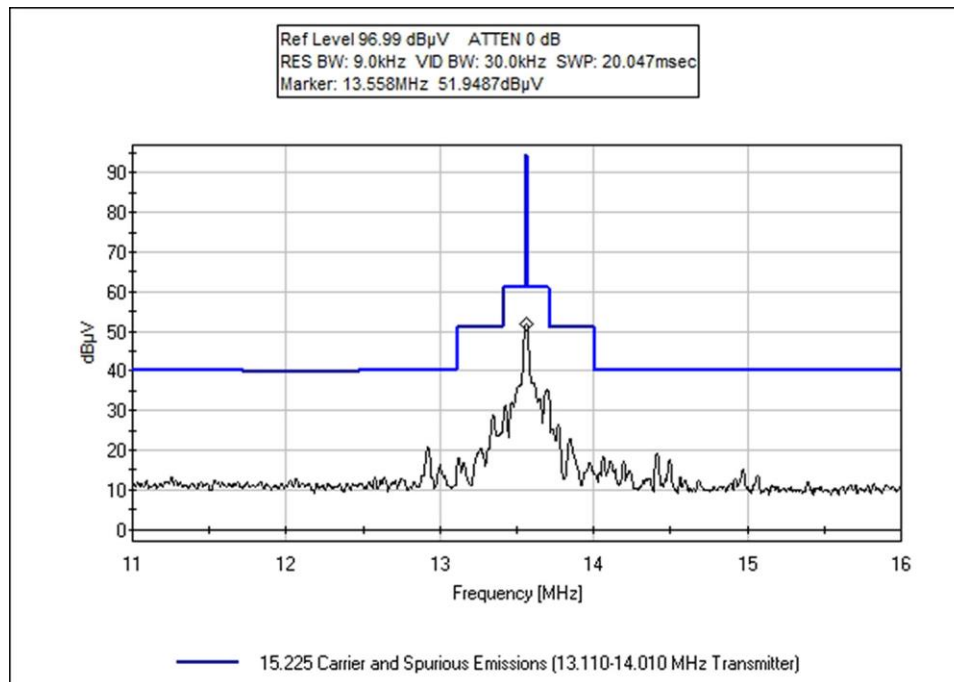
Band Edge

Band Edge Summary

Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @30m)	Limit (dBuV/m @30m)	Results
13.110	ASK	Integral	6.8	≤29.5	Pass
14.010	ASK	Integral	4.1	≤29.5	Pass

Band Edge Plots

NOTE: Displayed limit corrected for all measuring equipment for comparison with the data.



Test Setup / Conditions / Data

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **WaveLynx Technologies Corporation**
 Specification: **15.225 Carrier and Spurious Emissions (13.110-14.010 MHz Transmitter)**
 Work Order #: **111609** Date: 9/5/2025
 Test Type: **Radiated Scan** Time: 08:45:14
 Tested By: Jonathan Wharton Sequence#: 39
 Software: EMITest 5.03.20

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 2			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 2			

Test Conditions / Notes:

Radiated Band Edge Emission Frequency Range: 125kHz - 13.5MHz Method: ANSI C63.10 Environmental Test Conditions: Temperature: 22.9°C Humidity: 44% Pressure: 101.7kPa Highest generated frequency: 2480MHz The EUT is operated as intended. It is powered by a DC power supply at 12VDC. All functions are operational Note EUT Set to transmit at 125kHz and 13.5MHz RBW=VBW=200Hz from 9kHz to 150kHz RBW=VBW=9kHz from 150kHz to 30MHz

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02660	Spectrum Analyzer	E4446A	1/7/2025	1/7/2027
T1	ANP06691	Cable	PE3062-180	3/20/2024	3/20/2026
T2	ANP00987	Cable		1/12/2024	1/12/2026
T3	AN00314	Loop Antenna	6502	5/3/2024	5/3/2026

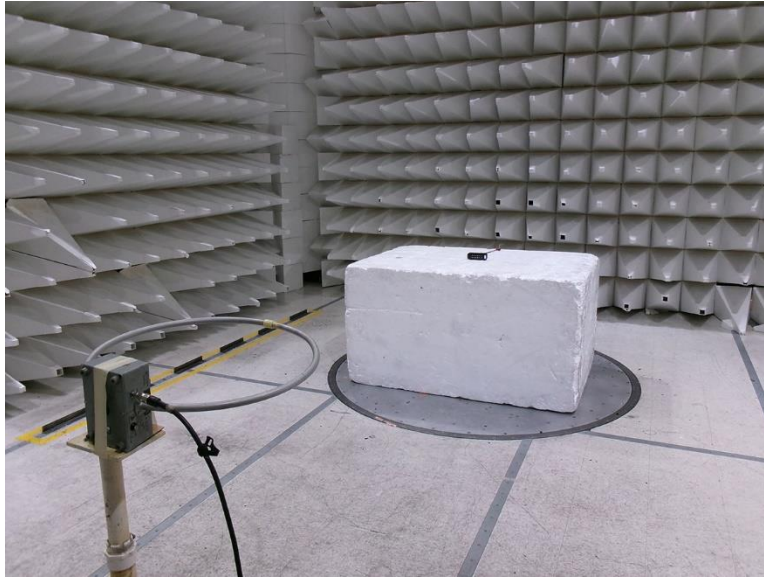
Measurement Data:

Reading listed by margin.

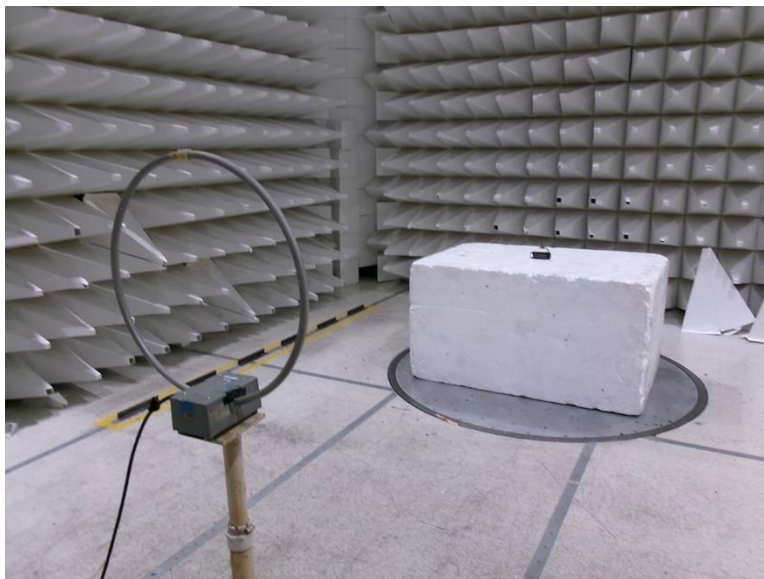
Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	13.110M	37.3	+0.1	+0.4	+9.0	-40.0	6.8	29.5	-22.7	Paral
2	14.010M	34.7	+0.1	+0.4	+8.9	-40.0	4.1	29.5	-25.4	Paral

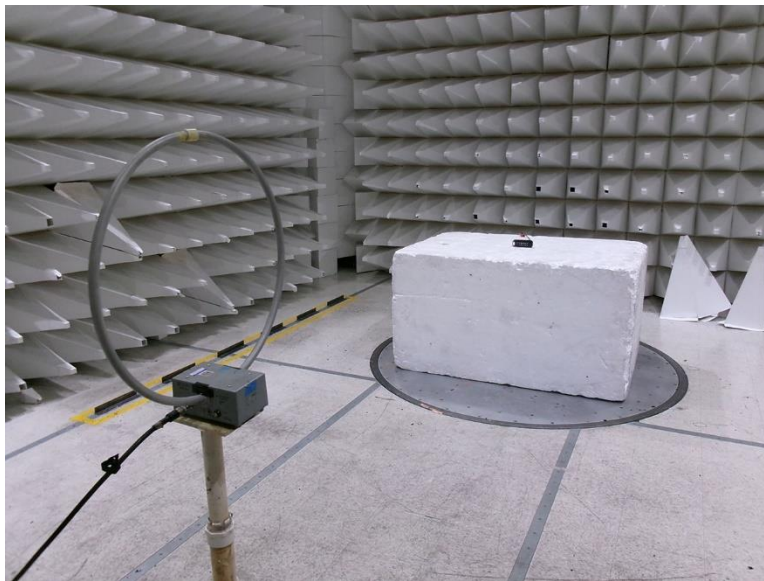
Test Setup Photo(s)



Ground-Facing



Parallel



Perpendicular

15.207 AC Conducted Emissions

Test Setup/Conditions			
Test Location:	Fremont Lab C3	Test Engineer:	Jonathan Wharton
Test Method:	ANSI C63.10 (2020) KDB 174176	Test Date(s):	7/31/2025
Configuration:	2 & 4		

Environmental Conditions			
Temperature (°C)	23.6	Relative Humidity (%):	44

Test Setup / Conditions / Data

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **WaveLynx Technologies Corporation**
 Specification: **15.207 AC Mains - Quasi-peak**
 Work Order #: **111609**
 Test Type: **Conducted Emissions**
 Tested By: Jonathan Wharton
 Software: EMITest 5.03.20

Date: 7/31/2025
 Time: 14:50:07
 Sequence#: 26
 120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 2			

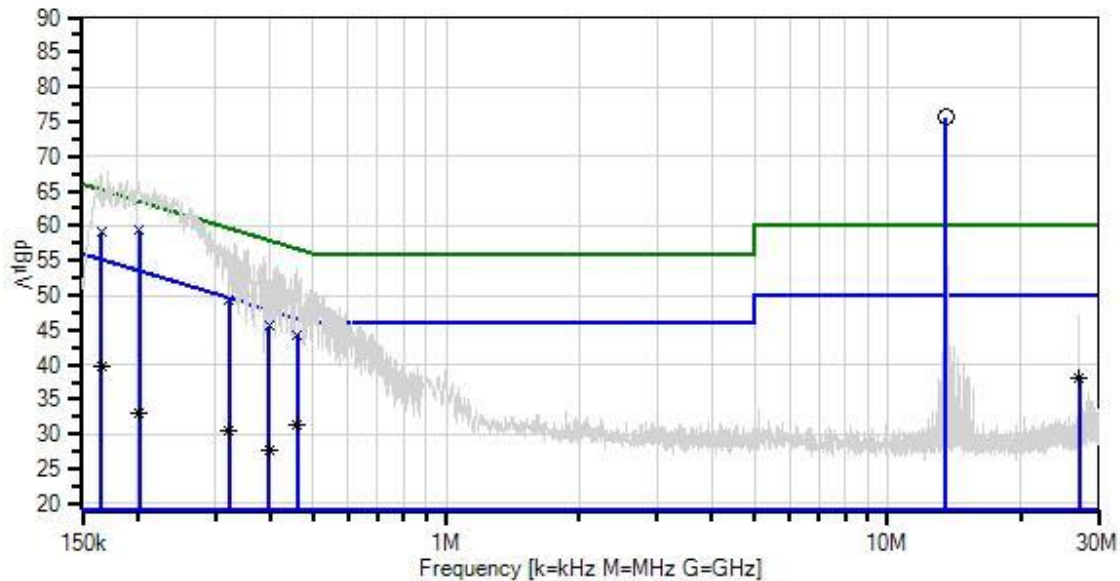
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 2			

Test Conditions / Notes:

Conducted Emissions Frequency Range: 150kHz to 30MHz Temperature: 23.5C Humidity: 46% Pressure: 101.5kPa Highest generated frequency: 2480MHz Method: ANSI C 63.10 The EUT is operated as intended. It is powered by DC power supply at 12VDC. All functions is on Note All the transmitter is in Normal Operate Mode
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WaveLynx Technologies Corporation WO#: 111609 Sequence#: 26 Date: 7/31/2025
15.207 AC Mains - Quasi-peak Test Lead: 120V 60Hz Power High



— Sweep Data
× QP Readings
Software Version: 5.03.20
— 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
	AN03471	Spectrum Analyzer	E4440A	2/23/2024	2/23/2026
T1	ANP05258	High Pass Filter	HE9615-150K-50-720B	5/6/2024	5/6/2026
T2	ANP06688	Cable	PE3062-180	4/2/2024	4/2/2026
T3	ANP06553	Cable	RG214/U	11/17/2023	11/17/2025
T4	ANP06777	Attenuator	33-20-34	8/22/2024	8/22/2026
T5	AN03814	50uH LISN-1PH-Line (dB)	NSLK 8126	1/13/2025	1/13/2027
	AN03814	50uH LISN-1PH-Neutral (dB)	NSLK 8126	1/13/2025	1/13/2027

Measurement Data:

Reading listed by margin.

Test Lead: Power High

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV	dBμV	dB	Ant
1	13.562M	54.9	+0.1 +0.4	+0.1	+0.1	+20.0	+0.0	75.6	50.0 Fundamental of 13.56MHz Fundamental	+25.6	Power
2	201.632k QP	39.2	+0.1 +0.1	+0.0	+0.0	+20.0	+0.0	59.4	63.5	-4.1	Power
3	165.271k QP	38.6	+0.3 +0.1	+0.0	+0.0	+20.0	+0.0	59.0	65.2	-6.2	Power
4	323.075k QP	29.0	+0.1 +0.1	+0.0	+0.0	+20.0	+0.0	49.2	59.6	-10.4	Power
5	27.121M Ave	17.1	+0.2 +0.6	+0.2	+0.1	+20.0	+0.0	38.2	50.0	-11.8	Power
^	27.121M	26.5	+0.2 +0.6	+0.2	+0.1	+20.0	+0.0	47.6	50.0	-2.4	Power
7	397.250k QP	25.3	+0.1 +0.1	+0.0	+0.0	+20.0	+0.0	45.5	57.9	-12.4	Power
8	460.517k QP	24.1	+0.1 +0.1	+0.0	+0.0	+20.0	+0.0	44.3	56.7	-12.4	Power
9	460.517k Ave	11.1	+0.1 +0.1	+0.0	+0.0	+20.0	+0.0	31.3	46.7	-15.4	Power
^	460.516k	33.7	+0.1 +0.1	+0.0	+0.0	+20.0	+0.0	53.9	46.7	+7.2	Power
11	165.271k Ave	19.4	+0.3 +0.1	+0.0	+0.0	+20.0	+0.0	39.8	55.2	-15.4	Power
^	165.271k	47.1	+0.3 +0.1	+0.0	+0.0	+20.0	+0.0	67.5	55.2	+12.3	Power
13	323.075k Ave	10.2	+0.1 +0.1	+0.0	+0.0	+20.0	+0.0	30.4	49.6	-19.2	Power
^	323.075k	36.3	+0.1 +0.1	+0.0	+0.0	+20.0	+0.0	56.5	49.6	+6.9	Power
15	397.250k Ave	7.5	+0.1 +0.1	+0.0	+0.0	+20.0	+0.0	27.7	47.9	-20.2	Power
^	397.250k	34.5	+0.1 +0.1	+0.0	+0.0	+20.0	+0.0	54.7	47.9	+6.8	Power
17	201.632k Ave	12.9	+0.1 +0.1	+0.0	+0.0	+20.0	+0.0	33.1	53.5	-20.4	Power
^	201.631k	45.9	+0.1 +0.1	+0.0	+0.0	+20.0	+0.0	66.1	53.5	+12.6	Power

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **WaveLynx Technologies Corporation**
 Specification: **15.207 AC Mains - Quasi-peak**
 Work Order #: **111609** Date: 7/31/2025
 Test Type: **Conducted Emissions** Time: 15:13:38
 Tested By: Jonathan Wharton Sequence#: 27
 Software: EMITest 5.03.20 120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 2			

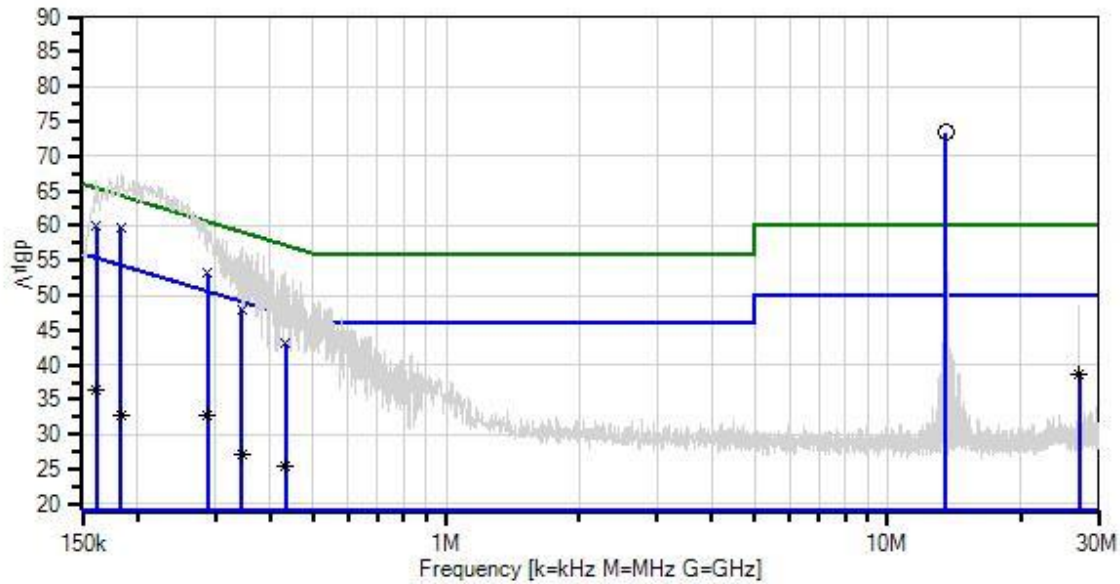
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 2			

Test Conditions / Notes:

Conducted Emissions Frequency Range: 150kHz to 30MHz Temperature: 23.5°C Humidity: 46% Pressure: 101.5kPa Highest generated frequency: 2480MHz Method: ANSI C 63.10 The EUT is operated as intended. It is powered by DC power supply at 12VDC. All functions is on Note All the transmitter is in Normal Operate Mode

WaveLynx Technologies Corporation WO#: 111609 Sequence#: 27 Date: 7/31/2025
15.207 AC Mains - Quasi-peak Test Lead: 120V 60Hz Power Return



— Sweep Data
× QP Readings
Software Version: 5.03.20
— 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
	AN03471	Spectrum Analyzer	E4440A	2/23/2024	2/23/2026
T1	ANP05258	High Pass Filter	HE9615-150K-50-720B	5/6/2024	5/6/2026
T2	ANP06688	Cable	PE3062-180	4/2/2024	4/2/2026
T3	ANP06553	Cable	RG214/U	11/17/2023	11/17/2025
T4	ANP06777	Attenuator	33-20-34	8/22/2024	8/22/2026
	AN03814	50uH LISN-1PH-Line (dB)	NSLK 8126	1/13/2025	1/13/2027
T5	AN03814	50uH LISN-1PH-Neutral (dB)	NSLK 8126	1/13/2025	1/13/2027

Measurement Data:			Reading listed by margin.					Test Lead: Power Return			
#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV	dBμV	dB	Ant
1	13.562M	52.6	+0.1 +0.5	+0.1	+0.1	+20.0	+0.0	73.4	50.0 Fundamental of 13.56MHz Transmitter	+23.4	Power
2	183.450k QP	39.4	+0.2 +0.2	+0.0	+0.0	+20.0	+0.0	59.8	64.3	-4.5	Power
3	161.634k QP	39.3	+0.4 +0.3	+0.0	+0.0	+20.0	+0.0	60.0	65.4	-5.4	Power
4	288.895k QP	32.9	+0.1 +0.2	+0.0	+0.0	+20.0	+0.0	53.2	60.6	-7.4	Power
5	344.163k QP	27.6	+0.1 +0.2	+0.0	+0.0	+20.0	+0.0	47.9	59.1	-11.2	Power
6	27.120M Ave	17.5	+0.2 +0.7	+0.2	+0.1	+20.0	+0.0	38.7	50.0	-11.3	Power
^	27.120M	27.4	+0.2 +0.7	+0.2	+0.1	+20.0	+0.0	48.6	50.0	-1.4	Power
8	432.155k QP	22.7	+0.1 +0.2	+0.0	+0.0	+20.0	+0.0	43.0	57.2	-14.2	Power
9	288.895k Ave	12.6	+0.1 +0.2	+0.0	+0.0	+20.0	+0.0	32.9	50.6	-17.7	Power
^	288.895k	39.2	+0.1 +0.2	+0.0	+0.0	+20.0	+0.0	59.5	50.6	+8.9	Power
11	161.634k Ave	15.6	+0.4 +0.3	+0.0	+0.0	+20.0	+0.0	36.3	55.4	-19.1	Power
^	161.634k	45.9	+0.4 +0.3	+0.0	+0.0	+20.0	+0.0	66.6	55.4	+11.2	Power
13	432.155k Ave	5.2	+0.1 +0.2	+0.0	+0.0	+20.0	+0.0	25.5	47.2	-21.7	Power
^	432.154k	32.9	+0.1 +0.2	+0.0	+0.0	+20.0	+0.0	53.2	47.2	+6.0	Power
15	183.450k Ave	12.2	+0.2 +0.2	+0.0	+0.0	+20.0	+0.0	32.6	54.3	-21.7	Power
^	183.450k	46.9	+0.2 +0.2	+0.0	+0.0	+20.0	+0.0	67.3	54.3	+13.0	Power
17	344.163k Ave	6.9	+0.1 +0.2	+0.0	+0.0	+20.0	+0.0	27.2	49.1	-21.9	Power
^	344.163k	35.2	+0.1 +0.2	+0.0	+0.0	+20.0	+0.0	55.5	49.1	+6.4	Power

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **WaveLynx Technologies Corporation**
 Specification: **15.207 AC Mains - Average**
 Work Order #: **111609** Date: 7/31/2025
 Test Type: **Conducted Emissions** Time: 16:55:18
 Tested By: Jonathan Wharton Sequence#: 30
 Software: EMITest 5.03.20 120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 4			

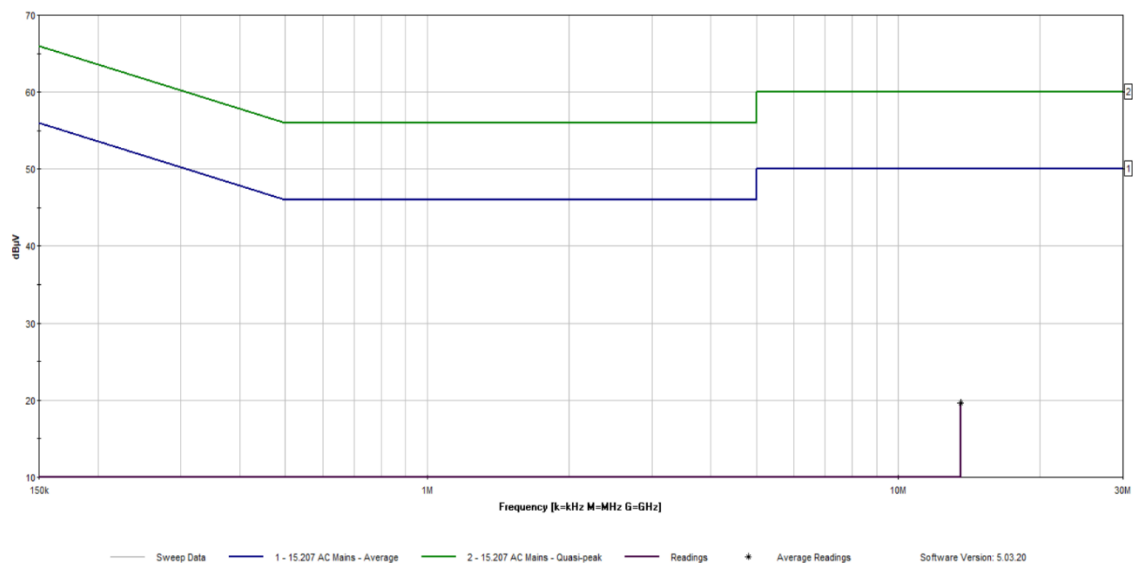
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 4			

Test Conditions / Notes:

Conducted Emissions Frequency Range: 150kHz to 30MHz Environmental Test Conditions: Temperature: 23.5°C Humidity: 46% Pressure: 101.5kPa Highest generated frequency: 2480MHz Method: ANSI C 63.4 2014 The EUT is operated as intended. It is powered by DC power supply at 12VDC. All functions is on Note All the transmitter is in Normal Operate Mode RF output of 13.56MHz is connected to RLC circuit (R=5.3kOhm, C=40pF, L=1.829uH) instead of antenna

WaveLynx Technologies Corporation W06: 111609 Sequence#: 30 Date: 7/31/2025
15.207 AC Mains - Average Test Lead: 120V 60Hz Power High



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03471	Spectrum Analyzer	E4440A	2/23/2024	2/23/2026
T1	ANP05258	High Pass Filter	HE9615-150K-50-720B	5/6/2024	5/6/2026
T2	ANP06688	Cable	PE3062-180	4/2/2024	4/2/2026
T3	ANP06553	Cable	RG214/U	11/17/2023	11/17/2025
T4	ANP06777	Attenuator	33-20-34	8/22/2024	8/22/2026
T5	AN03814	50uH LISN-1PH-Line (dB)	NSLK 8126	1/13/2025	1/13/2027
	AN03814	50uH LISN-1PH-Neutral (dB)	NSLK 8126	1/13/2025	1/13/2027

Measurement Data:

Reading listed by margin.

Test Lead: Power High

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV	dBμV	dB	Ant
1	13.560M	-1.1	+0.1	+0.1	+0.1	+20.0	+0.0	19.6	50.0	-30.4	Power
	Ave		+0.4								
^	13.560M	8.0	+0.1	+0.1	+0.1	+20.0	+0.0	28.7	50.0	-21.3	Power
			+0.4								

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **WaveLynx Technologies Corporation**
 Specification: **15.207 AC Mains - Average**
 Work Order #: **111609** Date: 7/31/2025
 Test Type: **Conducted Emissions** Time: 16:58:30
 Tested By: Jonathan Wharton Sequence#: 31
 Software: EMITest 5.03.20 120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 4			

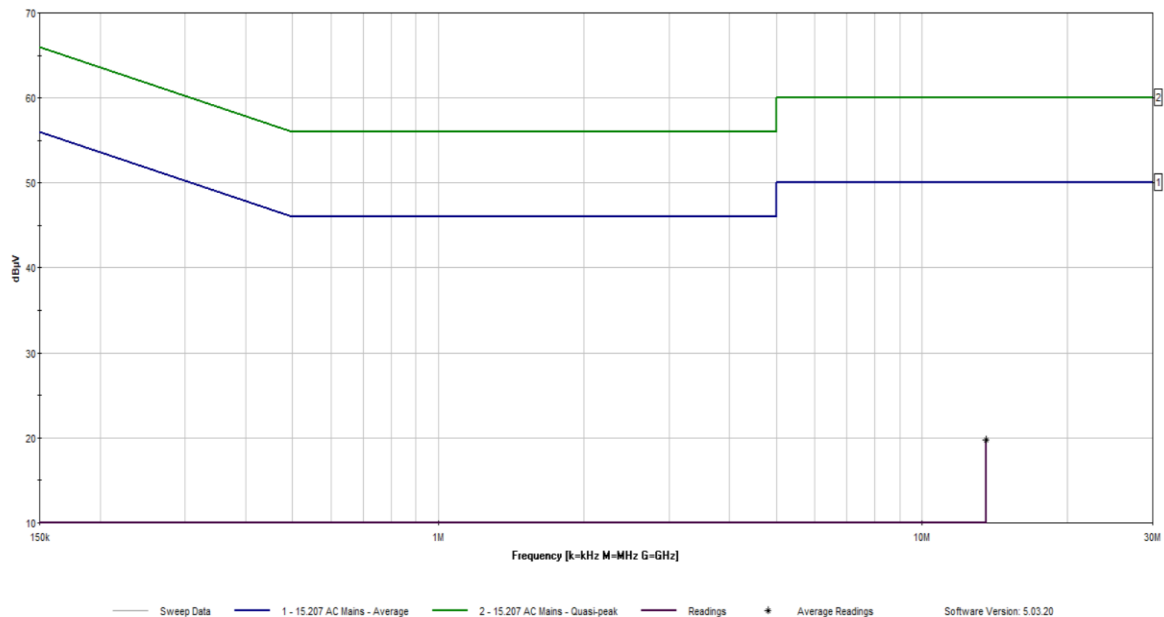
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 4			

Test Conditions / Notes:

Conducted Emissions Frequency Range: 150kHz to 30MHz Temperature: 23.5C Humidity: 46% Pressure: 101.5kPa Highest generated frequency: 2480MHz Method: ANSI C 63.4 2014 The EUT is operated as intended. It is powered by DC power supply at 12VDC. All functions is on Note All the transmitter is in Normal Operate Mode RF output of 13.56MHz is connected to RLC circuit (R=5.3kOhm, C=40pF, L=1.829uH) instead of antenna

WaveLynx Technologies Corporation WOF: 111609 Sequence#: 31 Date: 7/31/2025
15.207 AC Mains - Average Test Lead: 120V 60Hz Power Return



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03471	Spectrum Analyzer	E4440A	2/23/2024	2/23/2026
T1	ANP05258	High Pass Filter	HE9615-150K-50-720B	5/6/2024	5/6/2026
T2	ANP06688	Cable	PE3062-180	4/2/2024	4/2/2026
T3	ANP06553	Cable	RG214/U	11/17/2023	11/17/2025
T4	ANP06777	Attenuator	33-20-34	8/22/2024	8/22/2026
	AN03814	50uH LISN-1PH-Line (dB)	NSLK 8126	1/13/2025	1/13/2027
T5	AN03814	50uH LISN-1PH-Neutral (dB)	NSLK 8126	1/13/2025	1/13/2027

Measurement Data:

Reading listed by margin.

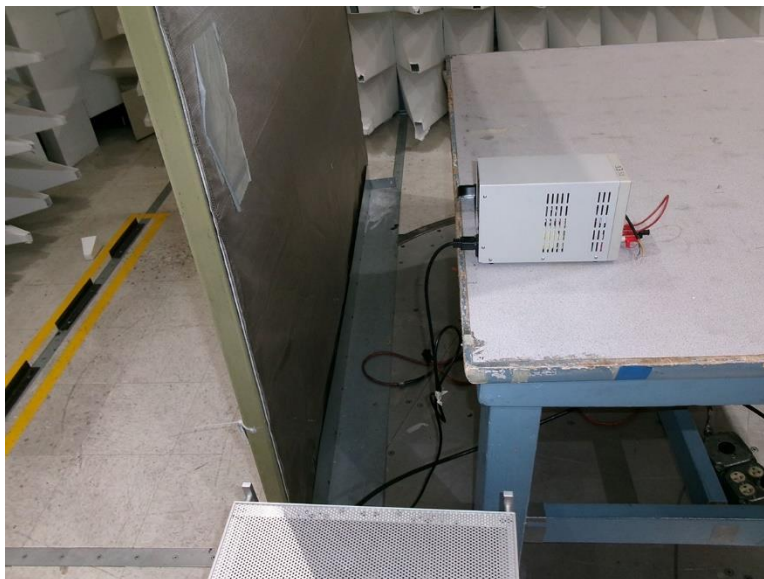
Test Lead: Power Return

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV	dBμV	dB	Ant
1	13.561M	-1.1	+0.1	+0.1	+0.1	+20.0	+0.0	19.7	50.0	-30.3	Power
	Ave		+0.5								
^	13.561M	8.1	+0.1	+0.1	+0.1	+20.0	+0.0	28.9	50.0	-21.1	Power
			+0.5								

Test Setup Photo(s)



Front View



Side View

Appendix A: Manufacturer Declaration

The following device/models were tested by CKC Laboratories, Inc.:

Device: RFID Access Control Reader, APEX

Model: AX-15

The manufacturer declares that the following additional model is identical electrically or any differences between them do not affect their EMC characteristics, and therefore meets the level of testing equivalent to the tested model.

Model: AX-10

Supplemental Information

Measurement Uncertainty

Uncertainty Value	Parameter
5.77 dB	Radiated Emissions
0.673 dB	RF Conducted Measurements
5.77×10^{-10}	Frequency Deviation
0.00005 s	Time Deviation
3.18 dB	Mains Conducted Emissions

Uncertainties reported are worst case for all CKC Laboratories' sites and 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 subtracting the limit value from the corrected measurement value; a positive margin represents a measurement exceeding the limit, while a negative margin represents a measurement less than the limit.

SAMPLE CALCULATIONS		
	Meter reading	($\text{dB}\mu\text{V}$)
+	Antenna Factor	(dB/m)
+	Cable Loss	(dB)
-	Distance Correction	(dB)
-	Preamplifier Gain	(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.

End of Report